

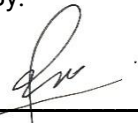
																																	
MOTOROLA PENANG ADV. COMM. LABORATORY Motorola Solutions Malaysia Sdn. Bhd. Plot 2A Medan Bayan Lepas, Mukim 12, S.W.D. 11900 Bayan Lepas, Penang, Malaysia.	FCC / ISED TEST REPORT Report Revision : Rev.B																																
<table><tr><td>Date/s Tested</td><td>: 03-February-2026 - 30-March-2026</td></tr><tr><td>Report Issue Date</td><td>: 24-April-2026</td></tr><tr><td>Test Location</td><td>: MOTOROLA PENANG ADV. COMM. LABORATORY</td></tr><tr><td>Manufacturer/Location</td><td>: Motorola Solutions Malaysia Sdn Bhd Plot 2A, Medan Bayan Lepas, Mukim 12 SWD, 11900 Bayan Lepas, Penang, Malaysia</td></tr><tr><td>Requestor</td><td>: Ooi Vern Yin</td></tr><tr><td>Product Type</td><td>: Portable</td></tr><tr><td>Product Marketing Name (PMN)</td><td>: TLK 200</td></tr><tr><td>Hardware Version Identification Number (HVIN)</td><td>: HK2300A</td></tr><tr><td>Frequency Band</td><td>: 2.402 - 2.480 GHz</td></tr><tr><td>Max RF Output Power</td><td>: GFSK - 10mW PI/4 DPSK - 11.22mW 8DPSK - 14.13mW</td></tr><tr><td>Applicant Name</td><td>: Motorola Solutions Inc</td></tr><tr><td>Applicant Address</td><td>: Plot 2A, Medan bayan Lepas, Mukim 12 S.W.D. 11900 Bayan Lepas, Penang, Malaysia</td></tr><tr><td>FCC Registrations</td><td>: 461337</td></tr><tr><td>ISED Registration</td><td>: 109AK</td></tr><tr><td>Firmware Version Identification Number (FVIN)</td><td>: D01.00.01 (BP), D01.06.08 (AP)</td></tr></table> The equipment was tested accordance to the requirement listed below: <table><tr><td>(2.4GHz BT) FCC 47CFR Part 15C ISED RSS 247 Issue 4</td><td>PASS</td></tr></table>		Date/s Tested	: 03-February-2026 - 30-March-2026	Report Issue Date	: 24-April-2026	Test Location	: MOTOROLA PENANG ADV. COMM. LABORATORY	Manufacturer/Location	: Motorola Solutions Malaysia Sdn Bhd Plot 2A, Medan Bayan Lepas, Mukim 12 SWD, 11900 Bayan Lepas, Penang, Malaysia	Requestor	: Ooi Vern Yin	Product Type	: Portable	Product Marketing Name (PMN)	: TLK 200	Hardware Version Identification Number (HVIN)	: HK2300A	Frequency Band	: 2.402 - 2.480 GHz	Max RF Output Power	: GFSK - 10mW PI/4 DPSK - 11.22mW 8DPSK - 14.13mW	Applicant Name	: Motorola Solutions Inc	Applicant Address	: Plot 2A, Medan bayan Lepas, Mukim 12 S.W.D. 11900 Bayan Lepas, Penang, Malaysia	FCC Registrations	: 461337	ISED Registration	: 109AK	Firmware Version Identification Number (FVIN)	: D01.00.01 (BP), D01.06.08 (AP)	(2.4GHz BT) FCC 47CFR Part 15C ISED RSS 247 Issue 4	PASS
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Prepared By:  Ahmad Azim Fashan Bin Fadzil Test Personnel	Approved Signatory: Vincent Foong Chuen Kit Responsible Engineer																																

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REVISION HISTORY

Revision History	Description	Date	Originator
Rev. A	Initial Report	24-April-2026	Azim
Rev. B	Initial Report	13-May-2026	Vincent

1.0. General Information

EUT Description:

Technologies	2.4GHz BT
TX Frequency range	2402MHz – 2480MHz
Modulation Type	GFSK, Pi/4 DQPSK,8DPSK
Connector type	PROGRAMMING, TEST & ALIGNMENT CABLE
Antenna type	FIXED CHIP
Temporary RF Connector	0.499dB

Note: The description and information regarding the EUT are provided by the customer. The laboratory shall not be held responsible for any inaccuracies or misinformation in the provided details that may result in incorrect test outcomes.

The EUT contains following accessory devices and data cable:

Item	Brand	Model or P/N
BATTERY PACK,BATT LIION 2500T	MOTOROLA	PMNN4578A
CHGR DESKTOP MULTI UNIT, INT PS US/NA	MOTOROLA	PMLN8569A
CABLE, ASSEMBLY,USB-C TO USB-A	MOTOROLA	PMKN4294A
STUBBY ANTENNA	MOTOROLA	AN000508A01

Channel number and frequency information:

79 channels are provided to this EUT:

Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)
0	2402	20	2422	40	2442	60	2462
1	2403	21	2423	41	2443	61	2463
2	2404	22	2424	42	2444	62	2464
3	2405	23	2425	43	2445	63	2465
4	2406	24	2426	44	2446	64	2466
5	2407	25	2427	45	2447	65	2467
6	2408	26	2428	46	2448	66	2468
7	2409	27	2429	47	2449	67	2469
8	2410	28	2430	48	2450	68	2470
9	2411	29	2431	49	2451	69	2471
10	2412	30	2432	50	2452	70	2472
11	2413	31	2433	51	2453	71	2473
12	2414	32	2434	52	2454	72	2474
13	2415	33	2435	53	2455	73	2475
14	2416	34	2436	54	2456	74	2476
15	2417	35	2437	55	2457	75	2477
16	2418	36	2438	56	2458	76	2478
17	2419	37	2439	57	2459	77	2479
18	2420	38	2440	58	2460	78	2480
19	2421	39	2441	59	2461		

General Description of Applied Standards

The EUT is a RF Product. According to the specifications of the manufacturer, the EUT is to comply with the requirements of the following standards:

FCC 47 CFR Part 15 Subpart C

KDB 558074 D01 15.247 Meas Guidance v05

ANSI C63.10-2020+Cor.1-2023+C63.10a-2024 + Errata to C63.10a-2024

Deviation from standard

Not applicable as no deviation from standard test method

Modifications to EUT

For RF conducted measurements a pigtail was soldered out of the board while for radiated measurements there were no modifications to the device

2.0. Summary of Test Results

FCC Clause	ISED Clause	Test Item	Result	Remark	Serial number tested	Tested by
15.247 (b)(1)	RSS-247 5.4(b)	Conducted RF Output Power (Peak)	Pass	Highest output power: 10.016 (10.037 mW)	64222BY0225	Azim
15.247 (a)(1)	RSS-247 5.1(a) RSS-247 5.1(b)	(1) 20dB Channel Bandwidth (2) Channel Separation	Pass	GFSK – 855KF1D Pi/4 DQPSK – 1M18G1D 8DPSK - 1M18G1D	64222BY0225	Azim
15.247(a)(1)(iii)	RSS-247 5.1(d)	Number of hopping Frequency used	Pass	Meet the limit requirement.	64222BY0225	Azim
15.247(a)(1)(iii)	RSS-247 5.1(d)	Dwell time on each channel	Pass	Meet the limit requirement.	64222BY0225	Azim
15.247 (d)	RSS-247 5.5	Band Edge Conducted Spurious Emission	Pass	Worst case emission: -34.12dB	64222BY0225	Azim
15.247 (d)	RSS-247 5.5	Conducted Spurious Emission	Pass	Worst case emission: -52.363 dBm	64222BY0225	Azim
15.205, 15.209, 15.247 (d)	RSS-247 5.5	Radiated Emission within Restricted Bands	Pass	Worst case emission: RBE: 36.90dBuV/m (margin: 17.10dB) RSE: 20.03 dBuV/m (Margin : 23.47 dB)	64222BY0124, 64222BY0188, 64222BY0191	Nazrin & Fuad
15.207	RSS-Gen 8.8	AC Powerline Conducted Emission	Pass	Meet the limit requirement.	64222BY0124	Shidee
15.203	-	Antenna Requirement	NA	Internal antenna is not accessible to the end-user	NA	NA

3.0. Measurement Uncertainty

The measurement uncertainties below were calculated using approach describe in ETSI TR 100 028, ETSI TR 100 028-2 (using a coverage factor of $k = 1.96$) & CISPR 16-4-2 (using a coverage factor of $k=2$), which gives a level of confidence of approximately 95%.

According to CISPR 16-4-2, the levels were found to be below levels of U_{CISPR} and therefore no adjustment of the data for measurement uncertainty is required.

ETSI TR 100 028 & ETSI TR 100 028-2:

MEASUREMENT TYPE	FREQUENCY RANGE	EXPANDED UNCERTAINTY
Conducted Spurious Output Power	9kHz-12750MHz	± 2.82 dB

CISPR 16-4-2:

MEASUREMENT TYPE	FREQUENCY RANGE	EXPANDED UNCERTAINTY
AC Power-line Conducted Emissions	150kHz-30MHz	± 3.44 dB
Radiated Emissions	30MHz-1000MHz	± 6.00 dB
Radiated Emissions	1000MHz-18000MHz	± 5.14 dB
Radiated Emissions	18000MHz-40000MHz	± 5.36 dB

Final Reported Test Results

The final reported test results are calculated using the following equation:

Reported RF Measurement Results = Measured Measurement Results + Correction Factor

Where:

- Measured Measurement Results is the measured test results
- Correction Factor is the cumulative loss of all cables used during measurement, including temporary RF connector and antenna gain.

4.0. Equipment List

Bluetooth ATE # 1 (SW Version: Ate Main_3.2.2)

Description	Model	Serial Number	Calibration Date	Calibration Due Date
SPECTRUM ANALYZER	E4440A	MY46185415	15-Jan-25	15-Jul-26
POWER SUPPLY	6652A	MY40001438	27-Aug-25	27-Aug-26
CHAMBER	SH-641	92003820	9-Jul-25	9-Jul-26

Radiated Emission Station (SW Version: EMC FCC RE v1.8.1)

Description	Model	Serial Number	Calibration Date	Calibration Due Date
DRG HORN FREQ.	SAS-571	719	31-Oct-25	31-Oct-26
DRG HORN FREQ.	SAS-571	1027	21-Jul-25	21-Jul-26
DC Power Supply	N7977A	MY54420118	16-Apr-25	16-Apr-26
SIGNAL GENERATOR	SMB 100A	180683	20-Dec-24	20-Dec-27
EMI TEST RECEIVER	ESW44	101731	11-Aug-25	10-Aug-26
5m SEMI-ANECHOIC CHAMBER	S800-HX	J2308	Not Required	Not Required
BILOG ANTENNA	CBL 6112D	55546	30-Jun-25	30-Jun-26
BILOG ANTENNA	CBL6112B	2964	06-Nov-25	06-Nov-26
DATA LOGGER THERMOHYGROMETER	SDL500	A.016785	16-Jul-25	16-Jul-26
SYSTEM CONTROLLER	SC104V	050806-1	Not Required	Not Required
TURNTABLE FLUSH MOUNT 2M	FM2011	FM2011-001	Not Required	Not Required
ANTENNA POSITIONING TOWER	TLT2	090308-5	Not Required	Not Required
BROAD-BAND HORN ANTENNA	BBHA9170	BBHA9170255	02-Apr-25	02-Apr-26
PREAMPLIFIER 18-40GHz	JS44-18004000-33-8P	2034566	Not Required	Not Required
PREAMPLIFIER 1-18GHz	EMC0518A45SE	981005	19-Sep-25	18-Sep-26
WIDEBAND RADIO COMMUNICATION TESTER	CMW500	153174	11-Jul-25	11-Jul-26
UXM 5G WIRELESS TEST PLATFORM	E7515B	MY22214199	02-Apr-25	02-Apr-26
PREAMPLIFIER	PAM-0118P	361	29-Sep-23	29-Sep-26
LOOP ANTENNA	6502	00203479	02-Apr-25	02-Apr-26

AC Powerline Station (SW Version: EMC32 Ver.10.60.10)

Description	Model	Serial Number	Calibration Date	Calibration Due Date
DATA LOGGER	DSB	16344143	16-Jul-2025	16-Jul-2026
V-NETWORK 2-LINE	ENV216	101268	30-Jun-2025	30-Jun-2026
EMI TEST RECEIVER	ESCI 3	100225	4-Sep-2025	4-Sep-2026
PROGRAMMABLE AC SOURCE	61604	ABR000000926	20-Aug-2025	20-Aug-2026

Note: Performed test site validation in accordance with ANSI C63.4-2014+C63.4a-2017 (30 MHz - 1 GHz) and CISPR 16-1-4 (1 GHz - 18 GHz) annually but no less than once every 3 years.

Test Mode Applicability and Test Channel Detail

Radiated Emission Test (Above 1GHz)

☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Environmental Conditions
Test Mode	0 to 78	0,39,78	FHSS	GFSK, Pi/4 DQPSK,8DPSK	23.4°C, 68.7%RH

Radiated Emission Test (Below 1GHz)

☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Environmental Conditions
Test Mode	0 to 78	0,39,78	FHSS	GFSK, Pi/4 DQPSK,8DPSK	23.4°C, 68.7%RH

Power Line Conducted Emission Test

☐ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

☐ Following channel(s) was (were) selected for the final test as listed below.

NAEUT Configure Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Environmental Conditions
Application Mode	0 to 78	AUTO	FHSS	AUTO	21.9°C, 56.2%RH

Antenna Port Conducted Measurement:

☒ This item includes all test value of each mode, but only includes spectrum plot of worst value of each mode.

☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

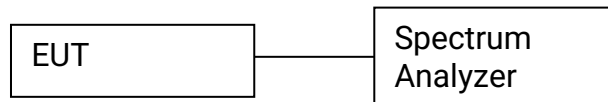
☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Environmental Conditions
Test Mode	0 to 78	0,39,78	FHSS	GFSK, Pi/4 DQPSK,8DPSK	25°C, 54.8%RH

6.0. Transmitter Test Parameters

6.1. Conducted RF Output Power (Peak)

6.1.1. Test Setup



- a) Check and ensure the spectrum analyzer well calibrate.
- b) Turn on the EUT and set EUT to transmit maximum data rate with hopping disable.
- c) Connect EUT's antenna terminal to spectrum analyzer with a low loss cable.
- d) Setting of Spectrum analyzer :
 - a. RBW = > 20 dB bandwidth
 - b. VBW = RBW
 - c. Detector mode = Peak
 - d. AMPLITUDE → Scale/Div = 10 dB
 - e. Trace = Max hold
 - f. Sweep = auto
- e) Measure the captured power within the band and recording the plot.
- f) Repeat above procedure with other different mode of operation.

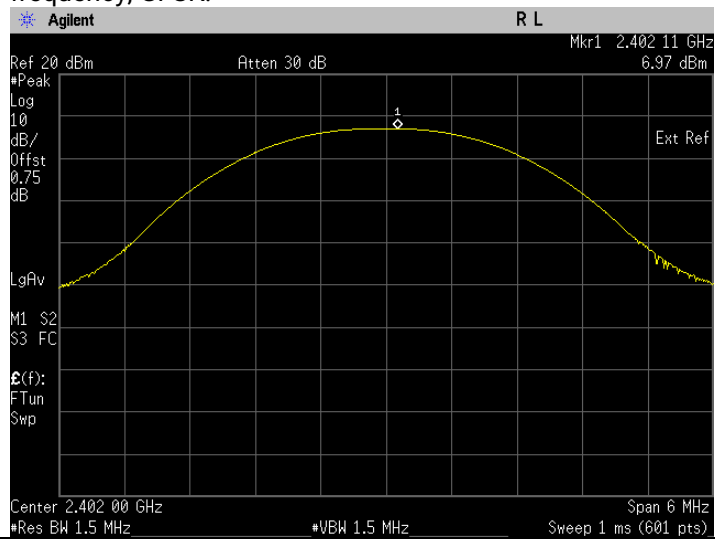
6.1.2. Test Limits:

Normal Condition (25 ° C)
≤ 125mW (or 20.9dBm)

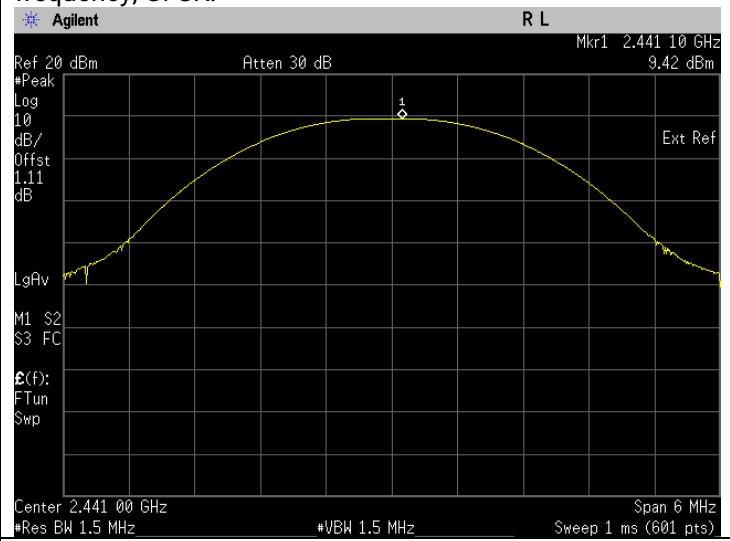
6.1.3. Test Data:

Test Conditions			Results	
Modulation	Voltage(V)	Test Frequency(GHz)	dBm	Status
GFSK	3.80	2.4020	6.973	Pass
		2.4410	9.417	Pass
		2.4800	8.304	Pass
Pi/4 DQPSK	3.80	2.4020	7.246	Pass
		2.4410	9.630	Pass
		2.4800	8.347	Pass
8DPSK	3.80	2.4020	7.549	Pass
		2.4410	10.016	Pass
		2.4800	8.598	Pass

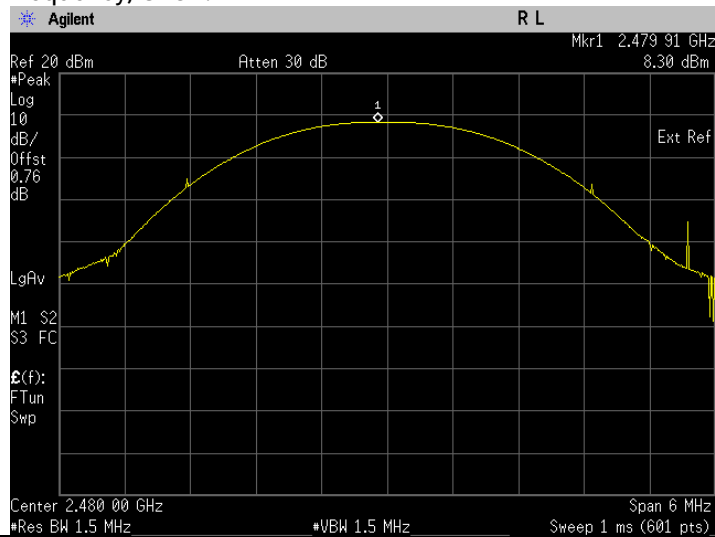
The Conducted RF Output Power test with result at low frequency, GFSK.



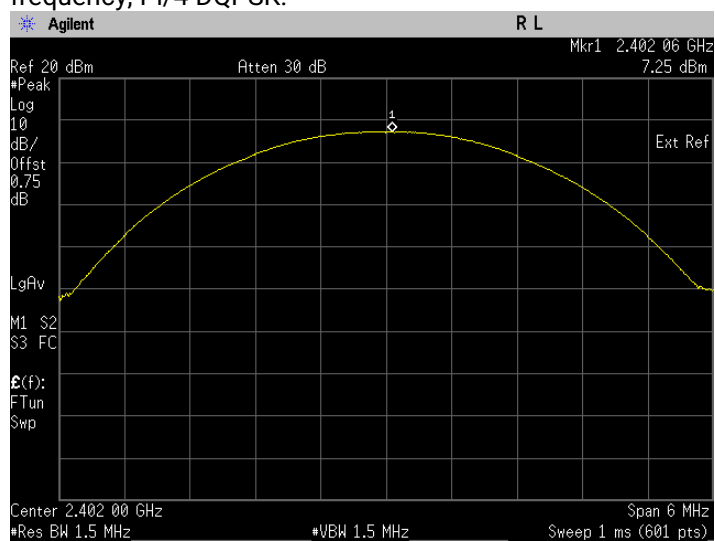
The Conducted RF Output Power test with result at mid frequency, GFSK.



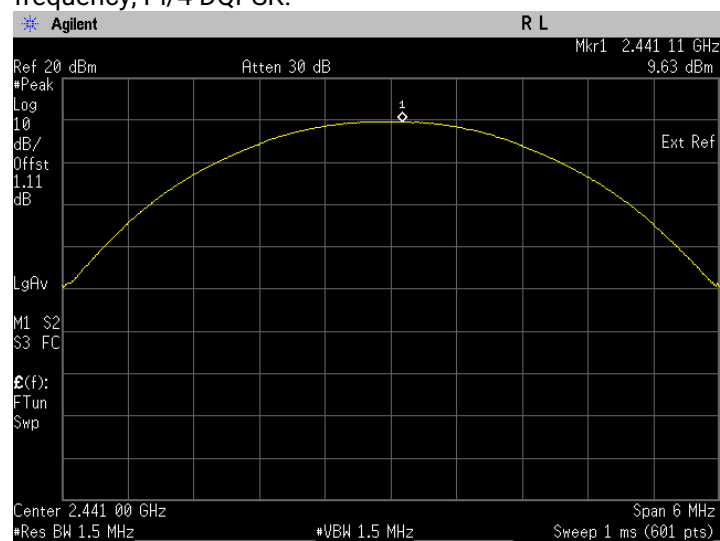
The Conducted RF Output Power test with result at high frequency, GFSK.



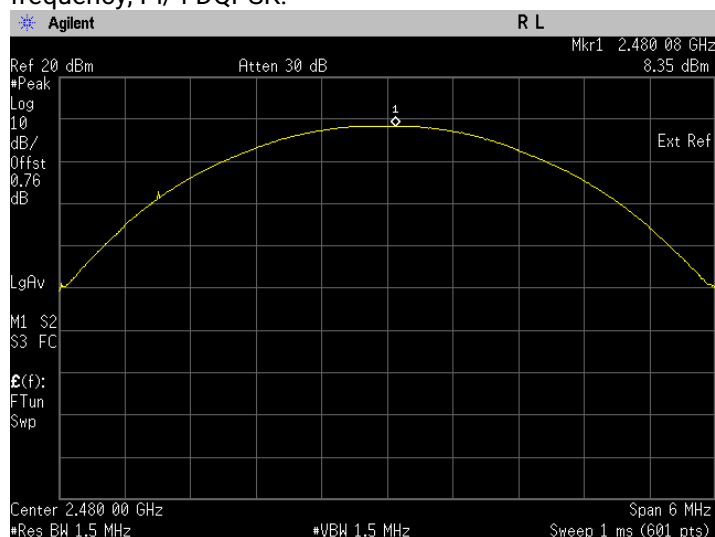
The Conducted RF Output Power test with result at low frequency, Pi/4 DQPSK.



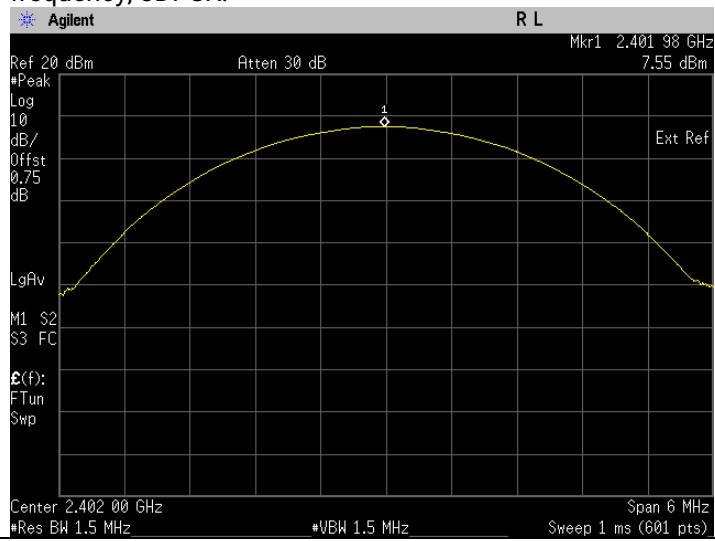
The Conducted RF Output Power test with result at mid frequency, Pi/4 DQPSK.



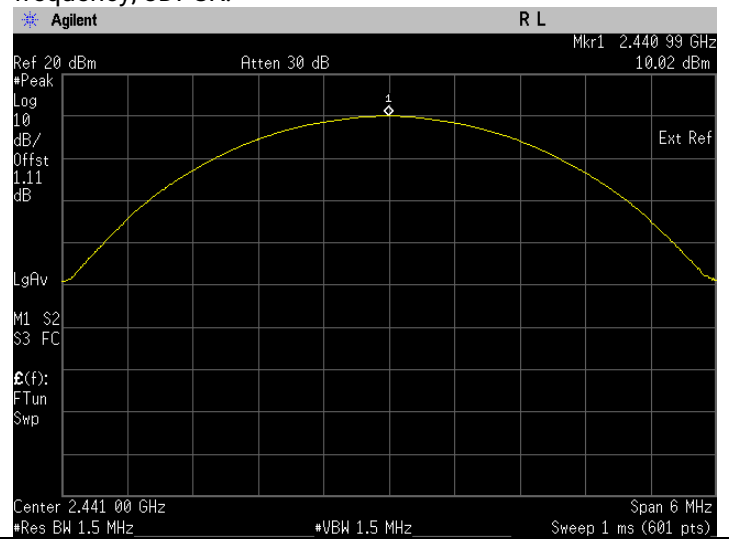
The Conducted RF Output Power test with result at high frequency, Pi/4 DQPSK.



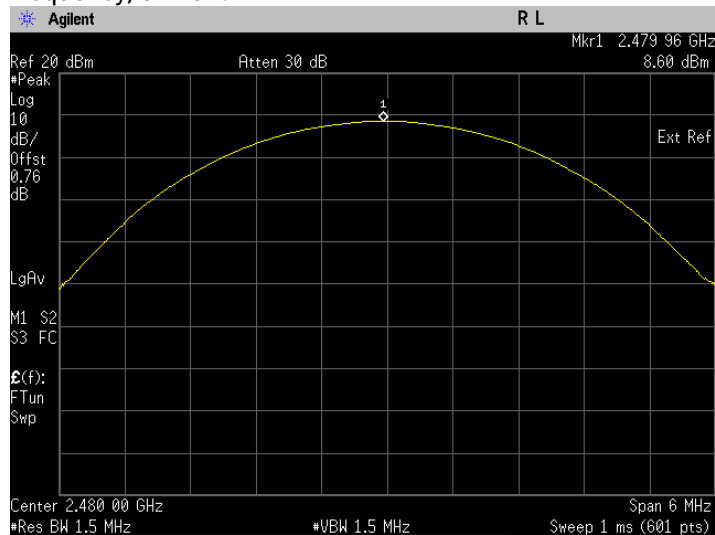
The Conducted RF Output Power test with result at low frequency, 8DPSK.



The Conducted RF Output Power test with result at mid frequency, 8DPSK.

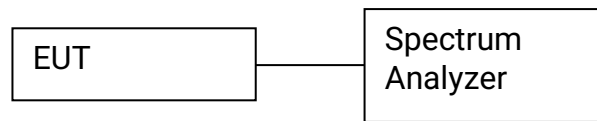


The Conducted RF Output Power test with result at high frequency, 8DPSK.



6.2. 20dB Channel Bandwidth

6.2.1. Test Setup



- a) Check and ensure the spectrum analyzer well calibrate.
- b) Turn on the EUT and set EUT to transmit maximum data rate with hopping disable.
- c) Connect EUT's antenna terminal to spectrum analyzer with a low loss cable.
- d) Setting of Spectrum analyzer :
 - a. RBW = 30 kHz
 - b. VBW = 100 kHz
 - c. SPAN = 3 MHz, center on test frequency
 - d. AMPLITUDE → Scale/Div = 10 dB
 - e. Detector mode = Peak
 - f. Trace = Max hold
 - g. Sweep = auto
- e) Measure the freq different of two frequencies that were attenuated 20dB from peak of the emission & record the frequency difference as the emission bandwidth.
- f) Save the plot result from spectrum analyzer screen.
- g) Repeat above procedure with other different mode of operation.

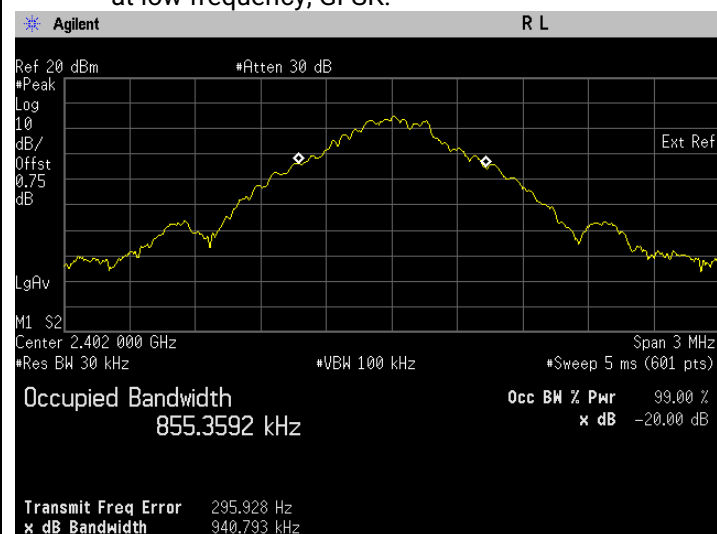
6.2.2. Test Limits:

Frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater.

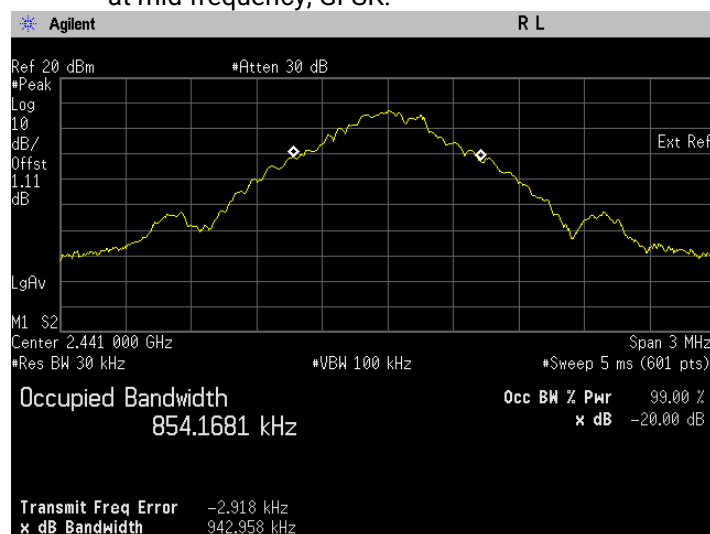
6.2.3. Test Data:

Test Conditions		Test Frequency	Results		
Modulation Type	Voltage(V)	TX (GHz)	20dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Status
GFSK	3.80	2.4020	0.941	0.855	Pass
		2.4410	0.943	0.854	Pass
		2.4800	0.940	0.855	Pass
Pi/4 DQPSK	3.80	2.4020	1.287	1.178	Pass
		2.4410	1.285	1.178	Pass
		2.4800	1.282	1.177	Pass
8DPSK	3.80	2.4020	1.292	1.177	Pass
		2.4410	1.296	1.182	Pass
		2.4800	1.293	1.184	Pass

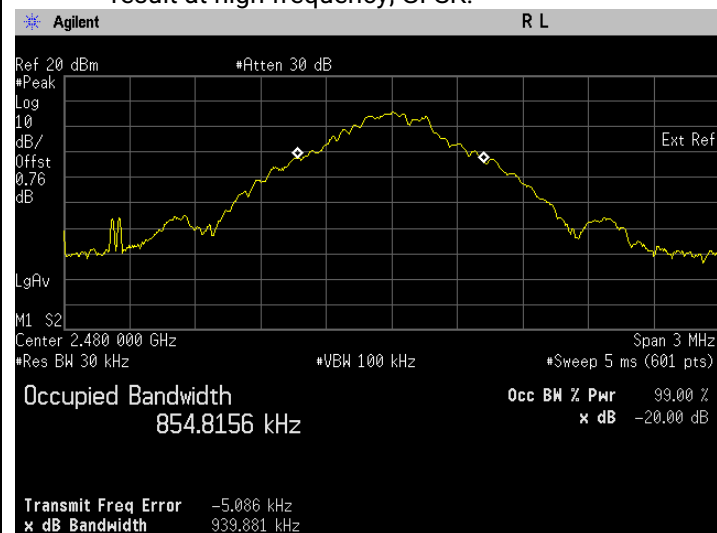
i. The 20 dB BW & occupied bandwidth test with result at low frequency, GFSK.



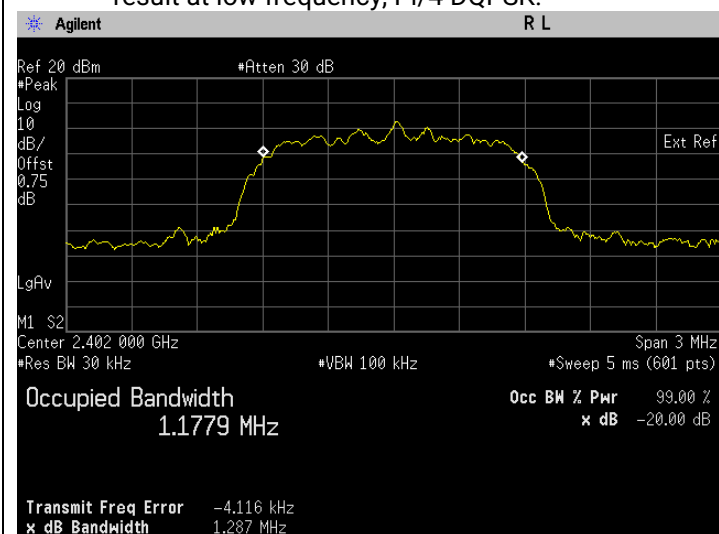
ii. The 20 dB BW & occupied bandwidth test with result at mid frequency, GFSK.



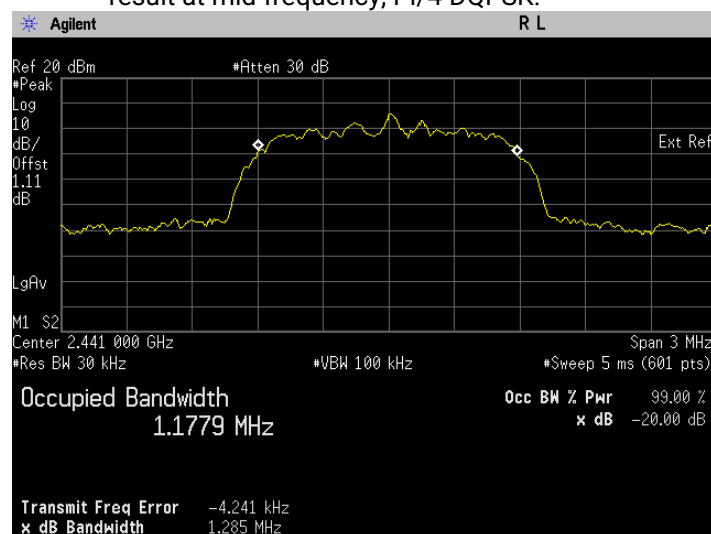
iii. The 20 dB BW & occupied bandwidth test with result at high frequency, GFSK.



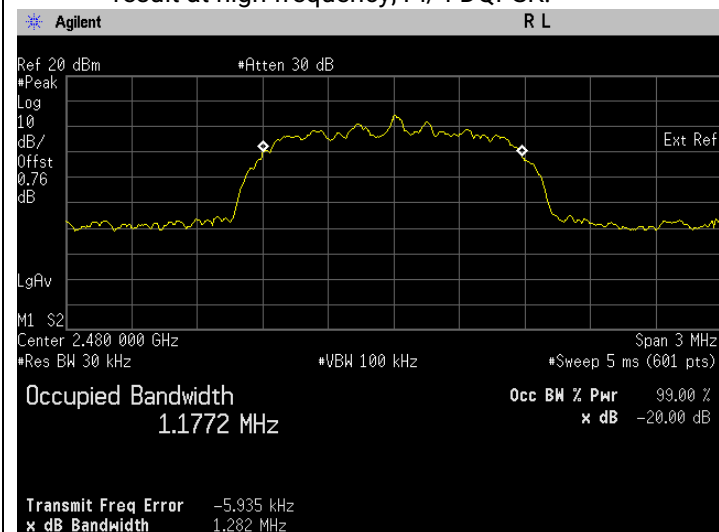
i. The 20 dB BW & occupied bandwidth test with result at low frequency, Pi/4 DQPSK.



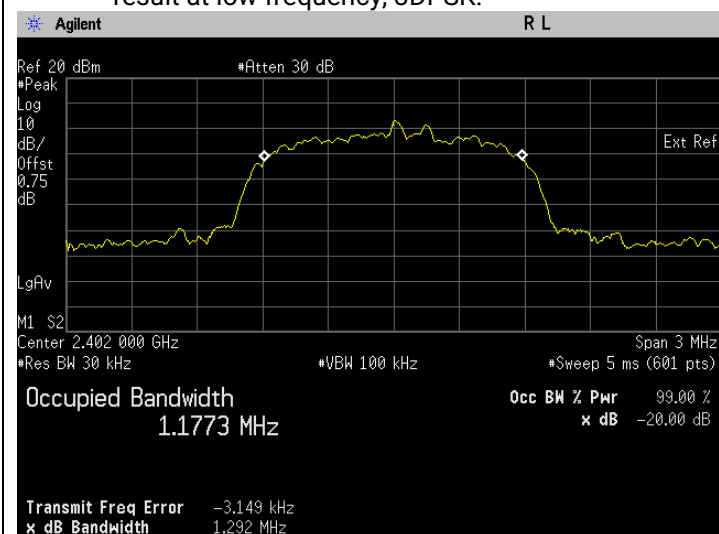
ii. The 20 dB BW & occupied bandwidth test with result at mid frequency, Pi/4 DQPSK.



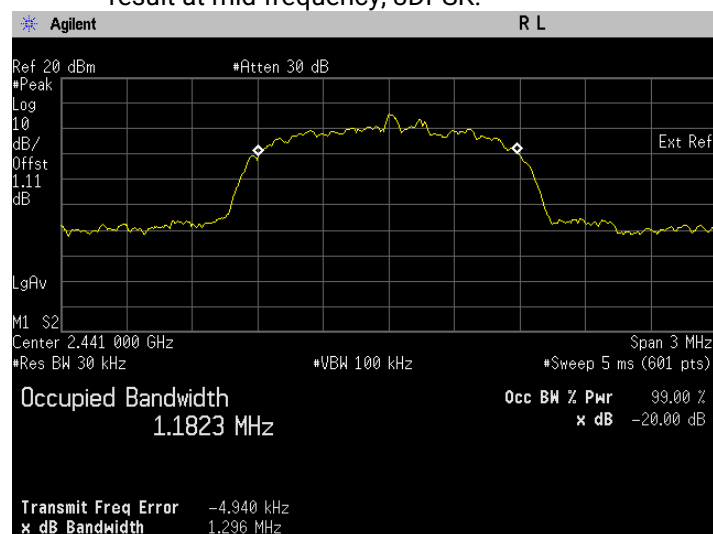
iii. The 20 dB BW & occupied bandwidth test with result at high frequency, Pi/4 DQPSK.



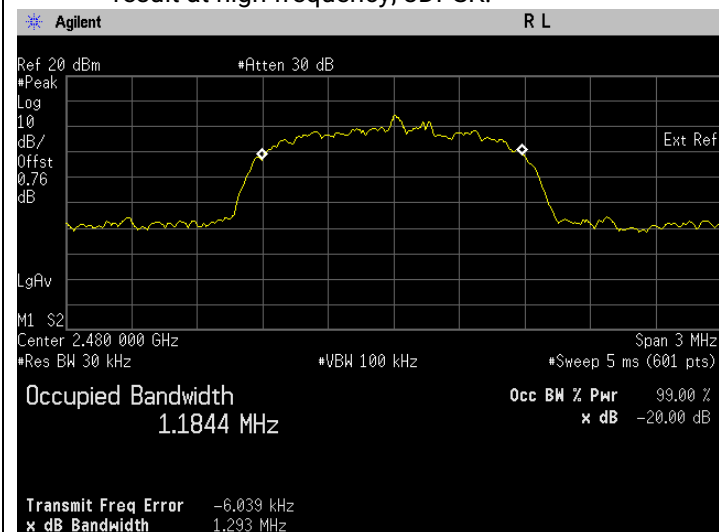
i. The 20 dB BW & occupied bandwidth test with result at low frequency, 8DPSK.



ii. The 20 dB BW & occupied bandwidth test with result at mid frequency, 8DPSK.

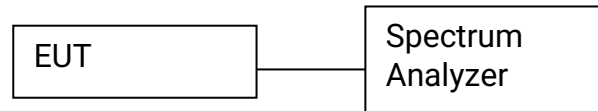


iii. The 20 dB BW & occupied bandwidth test with result at high frequency, 8DPSK.



6.3. Band-edge Conducted Spurious Emission

6.3.1. Test Setup



- a) Check and ensure the spectrum analyzer well calibrate.
- b) Turn on the EUT and keep the EUT in hopping mode.
- c) Connect EUT's antenna terminal to spectrum analyzer with a low loss cable.
- d) Setting of Spectrum analyzer :
 - a. RBW = 100 kHz
 - b. VBW = 300 kHz
 - c. SPAN = 4 MHz (Low channel) or 6MHz(High Channel)
 - d. Detector mode = Peak
 - e. AMPLITUDE → Scale/Div = 10 dB
 - f. Trace = Max hold
 - g. Sweep = auto
- e) Measure the captured band edge emission result and recording the plot.
- f) Repeat above on EUT with hopping disable.
- g) Repeat above procedure with other different test frequency.

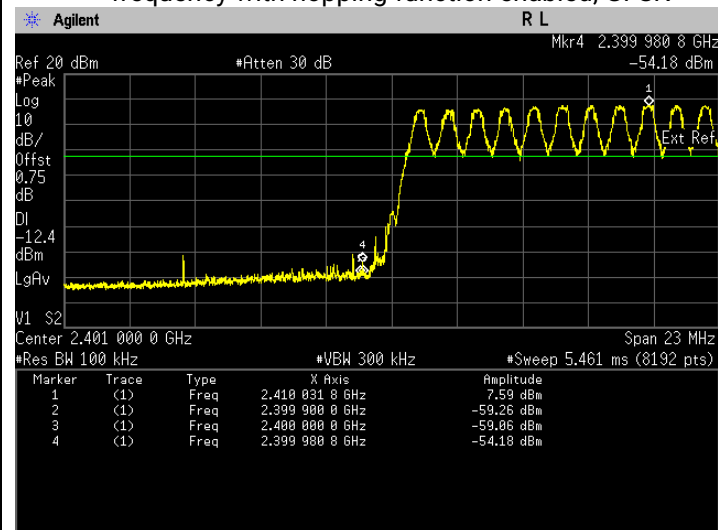
6.3.2. Test Limits

Normal Condition (25 ° C)
Shall be at least 20 dB below the peak power.

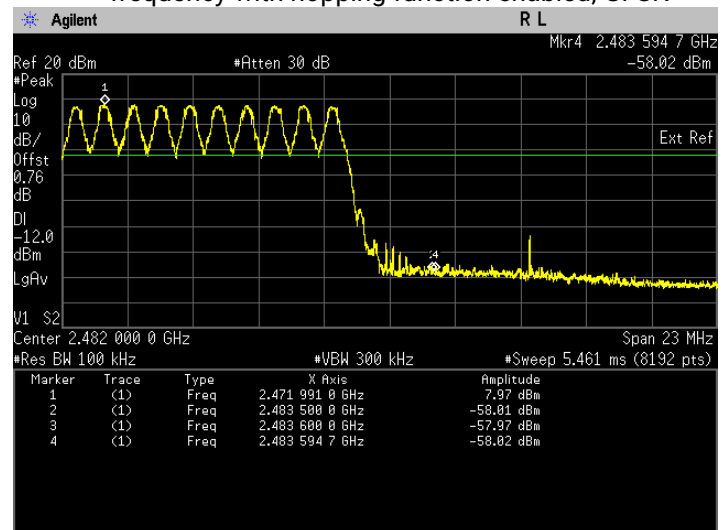
6.3.3. Test Result

Test Conditions				Results	
Modulation	Voltage(V)	Hopping Method	Test Frequency(GHz)	dB	Status
GFSK	3.80	Enabled (continuously)	2.402	-54.18	Pass
			2.480	-58.02	Pass
		Disabled (constantly)	2.402	-47.80	Pass
			2.480	-54.89	Pass
Pi/4 DQPSK	3.80	Enabled (continuously)	2.402	-59.50	Pass
			2.480	-57.17	Pass
		Disabled (constantly)	2.402	-49.49	Pass
			2.480	-54.85	Pass
8 DPSK	3.80	Enabled (continuously)	2.402	-50.70	Pass
			2.480	-56.50	Pass
		Disabled (constantly)	2.402	-34.12	Pass
			2.480	-55.57	Pass

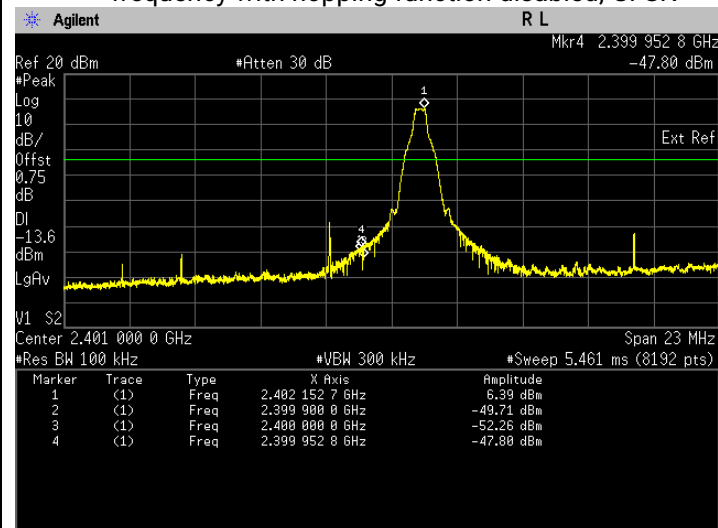
i. The highest band edge emission at low carrier frequency with hopping function enabled, GFSK



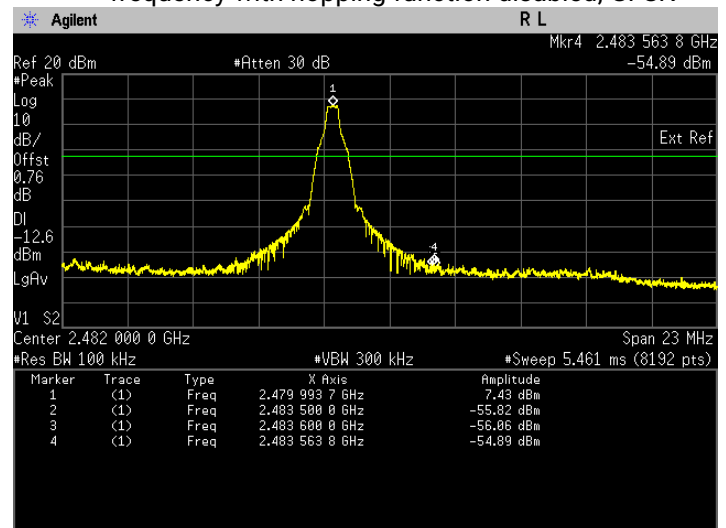
ii. The highest band edge emission at high carrier frequency with hopping function enabled, GFSK



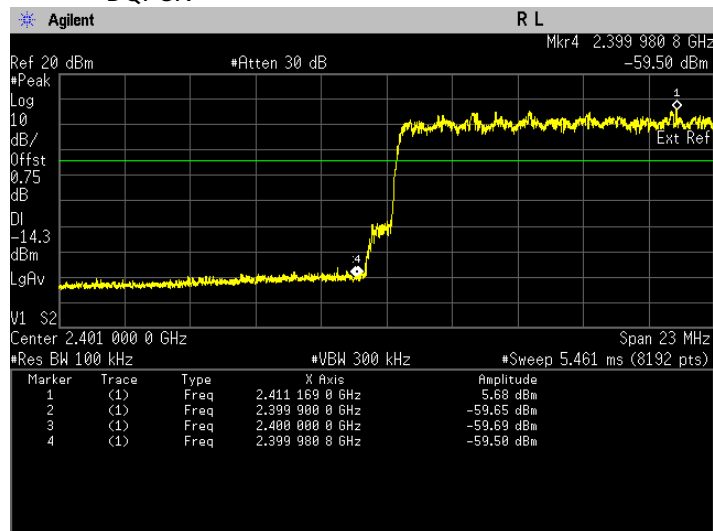
iii. The highest band edge emission at low carrier frequency with hopping function disabled, GFSK



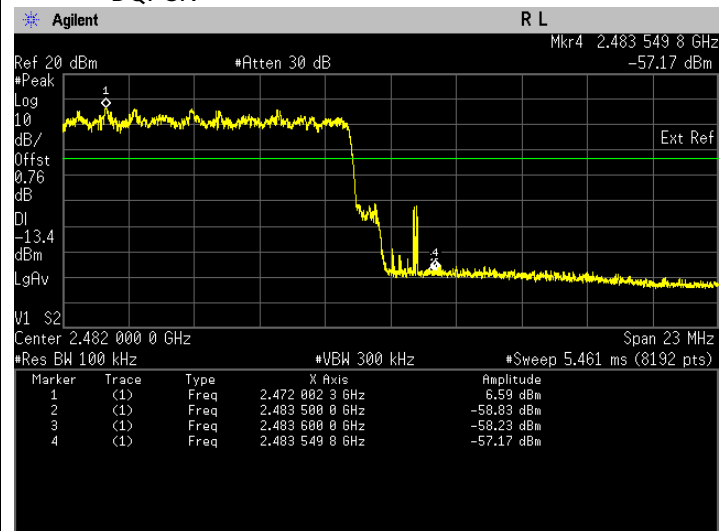
iv. The highest band edge emission at high carrier frequency with hopping function disabled, GFSK



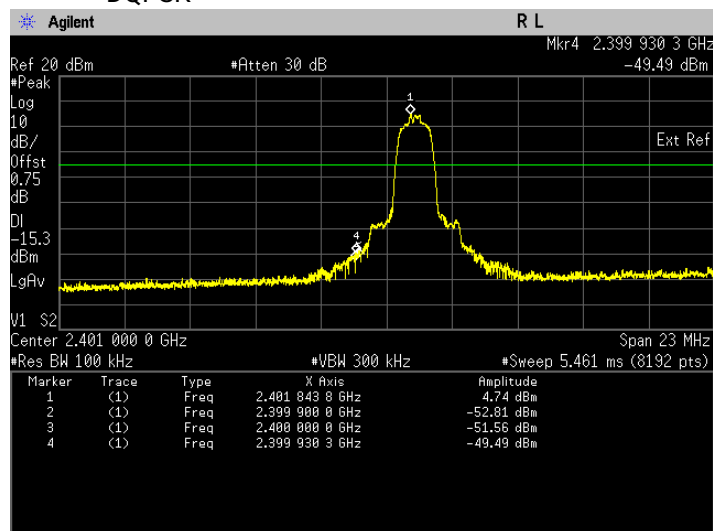
- i. The highest band edge emission at low carrier frequency with hopping function enabled, Pi/4 DQPSK



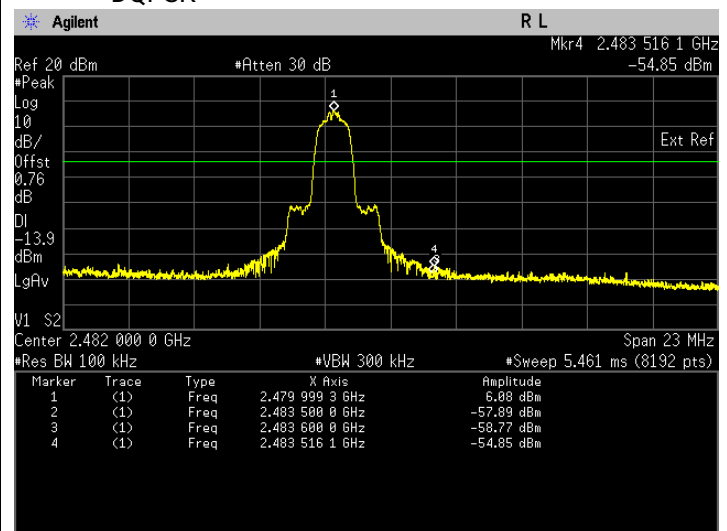
- ii. The highest band edge emission at high carrier frequency with hopping function enabled, Pi/4 DQPSK



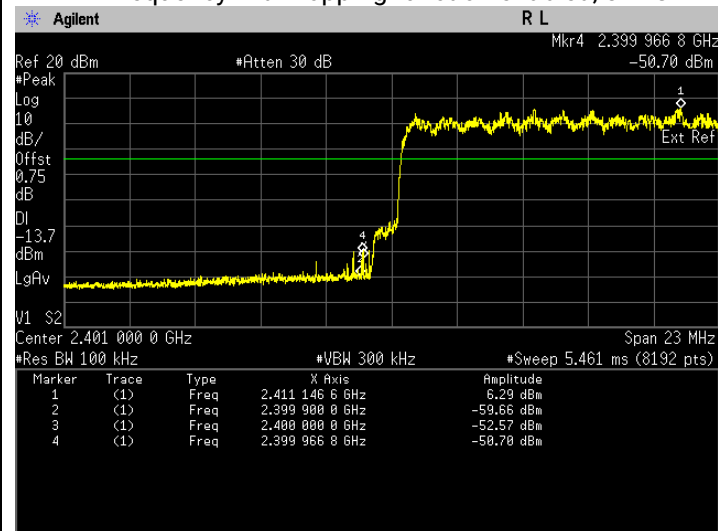
- iii. The highest band edge emission at low carrier frequency with hopping function disabled, Pi/4 DQPSK



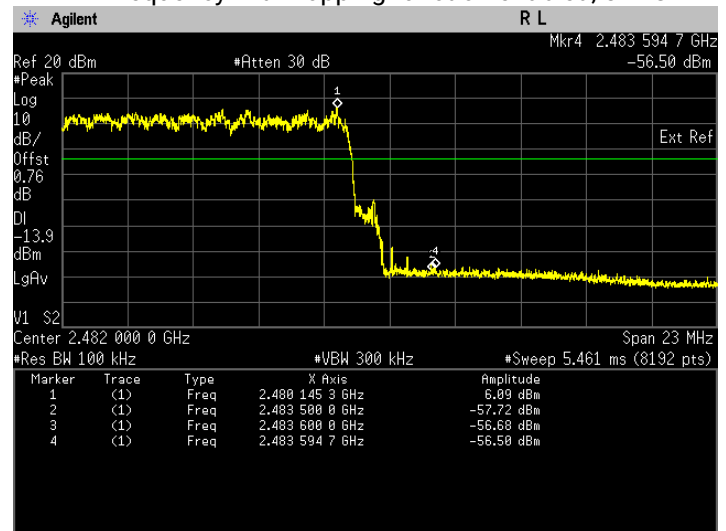
- iv. The highest band edge emission at high carrier frequency with hopping function disabled, Pi/4 DQPSK



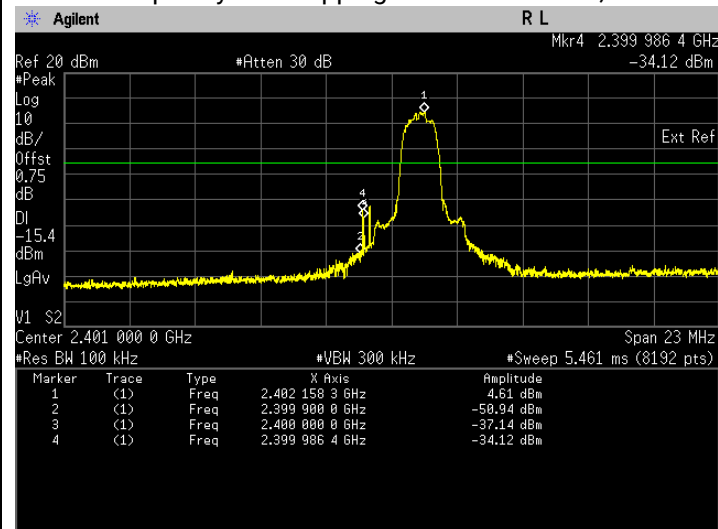
i. The highest band edge emission at low carrier frequency with hopping function enabled, 8DPSK



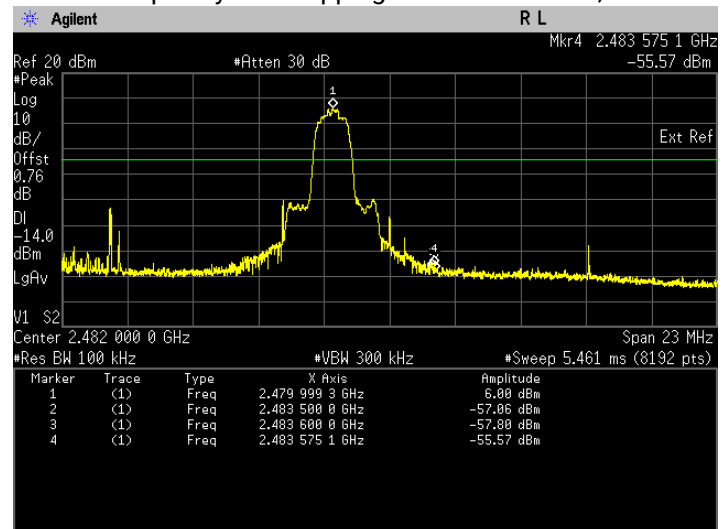
ii. The highest band edge emission at high carrier frequency with hopping function enabled, 8DPSK



iii. The highest band edge emission at low carrier frequency with hopping function disabled, 8DPSK

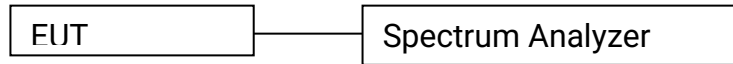


iv. The highest band edge emission at high carrier frequency with hopping function disabled, 8DPSK



6.4. Dwell time on each channel

6.4.1. Test Setup



- a) Check and ensure the spectrum analyzer well calibrate.
- b) Turn on the EUT and keep the EUT in hopping mode.
- c) Connect EUT's antenna terminal to spectrum analyzer with a low loss cable.
- d) Setting of Spectrum analyzer :
 - a. RBW = 100 kHz
 - b. VBW = 300 kHz
 - c. SPAN = Zero SPAN, center on hopping frequency
 - d. Detector mode = Peak
 - e. Trace = Max hold
 - f. Sweep time = 5second
 - g. Sweep = Single
- e) Measure total numbers of transmissions occur in 5 second and save the plot.
- f) Change the setting of spectrum analyzer :
 - a. RBW = 100 kHz
 - b. VBW = 300 kHz
 - c. Sweep time = sufficient to capture dwell time for 1 transmission
 - d. Sweep = Single
- g) Measure dwell time for 1 transmission and save the plot.
- h) Calculate accumulate dwell time in a given period equal to number of hopping frequencies x 0.4
- i) Repeat above procedure with other different mode of operation.

6.4.2. Test Limits:

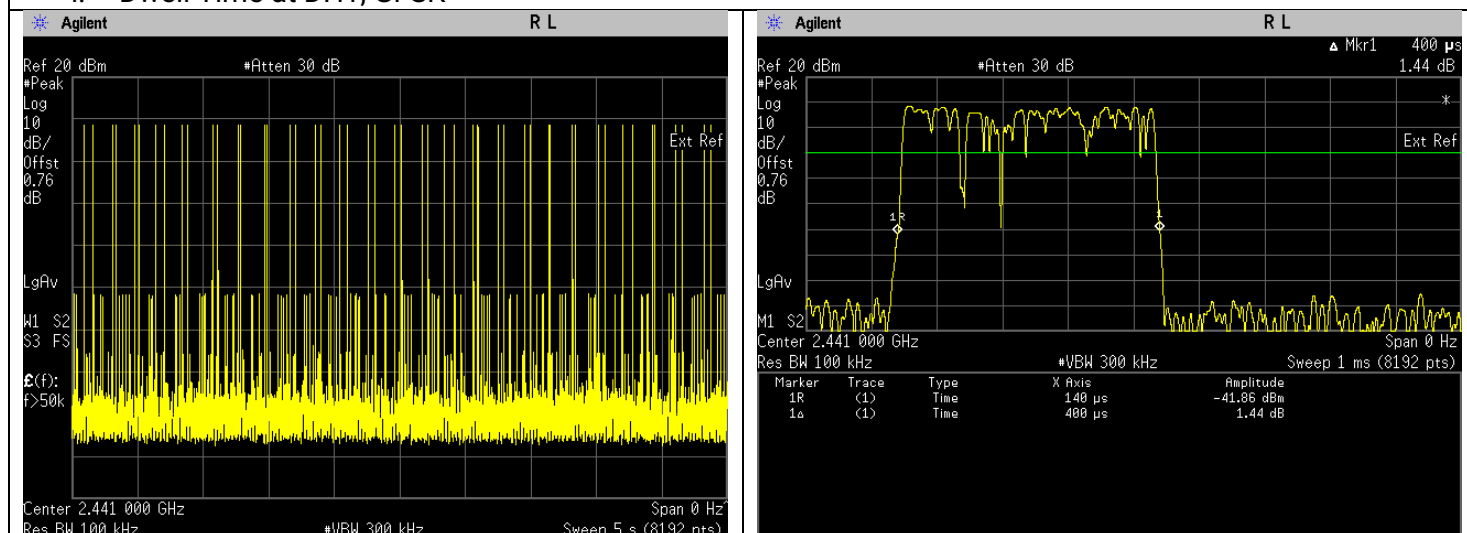
Normal Condition (25 ° C)
≤ 400ms

6.4.3. Test Result

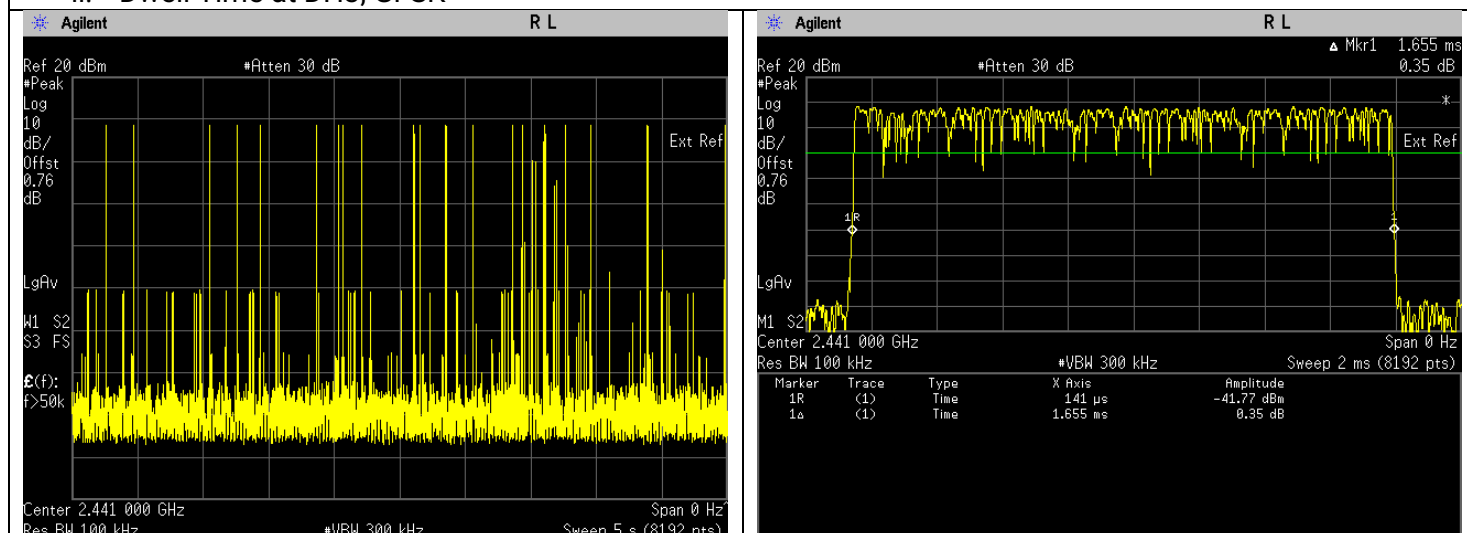
Test Conditions				Results			
Modulation	Voltage (V)	TX Frequency (MHz)	Data Package	No. of transmission on in 5s (a)	Dwell time in one transmission (b)	Total accumulate dwell time in 31.6s. (c)	Status
GFSK	3.80	2441	DH1	50	0.400	126.400000	Pass
			DH3	25	1.655	261.490000	Pass
			DH5	16	2.905	293.753600	Pass
Pi/4 DQPSK	3.80	2441	DH1	57	0.413	148.779120	Pass
			DH3	27	1.666	284.286240	Pass
			DH5	18	2.914	331.496640	Pass
8 DPSK	3.80	2441	DH1	51	0.414	133.440480	Pass
			DH3	28	1.660	293.753600	Pass
			DH5	15	2.917	276.531600	Pass

****Note:** Total dwell time 31.6s (79Hopping*0.4), (c) = (a) x 6.32 x (b)

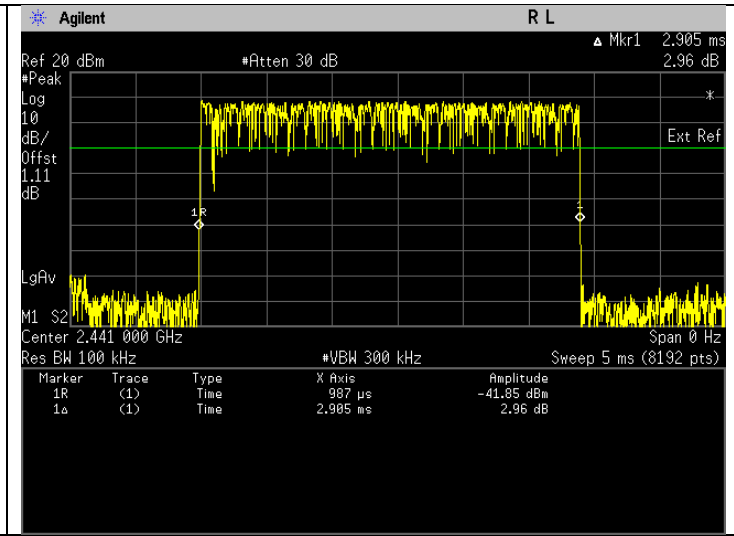
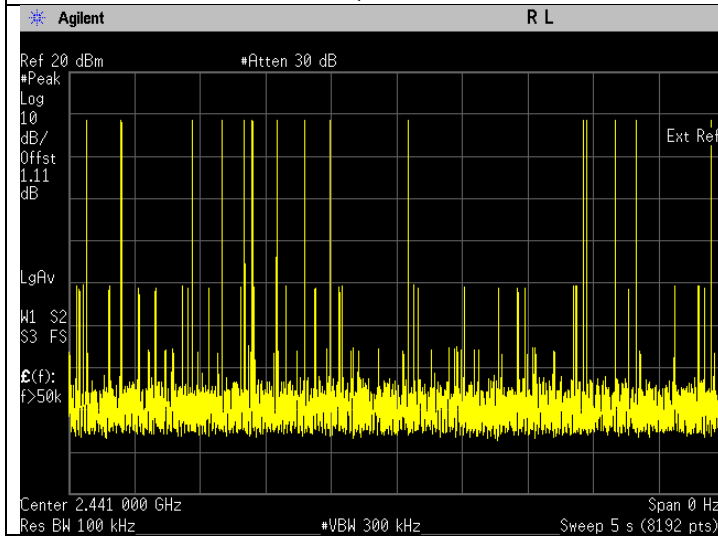
i. Dwell Time at DH1, GFSK



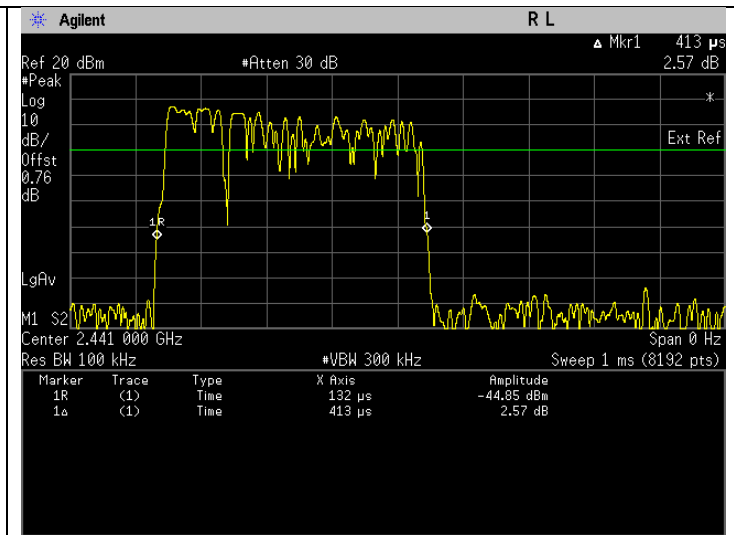
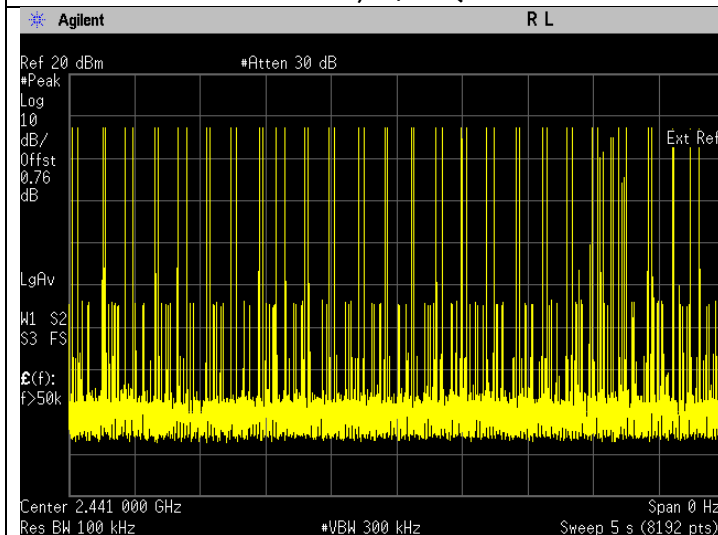
ii. Dwell Time at DH3, GFSK



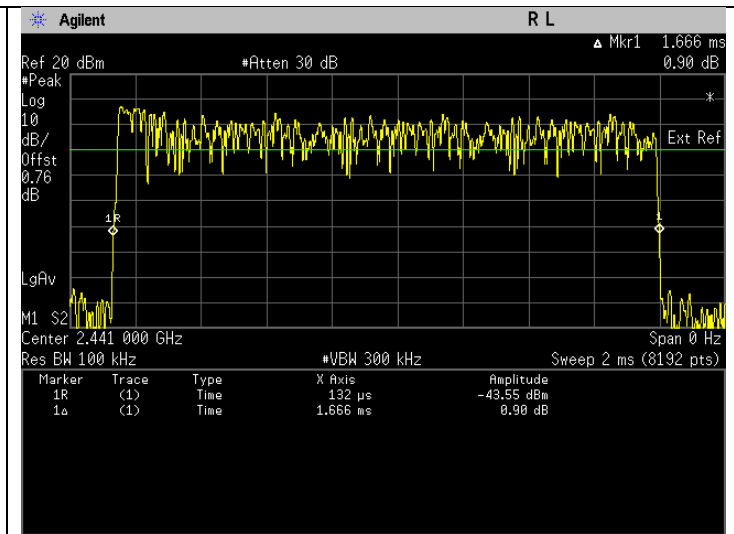
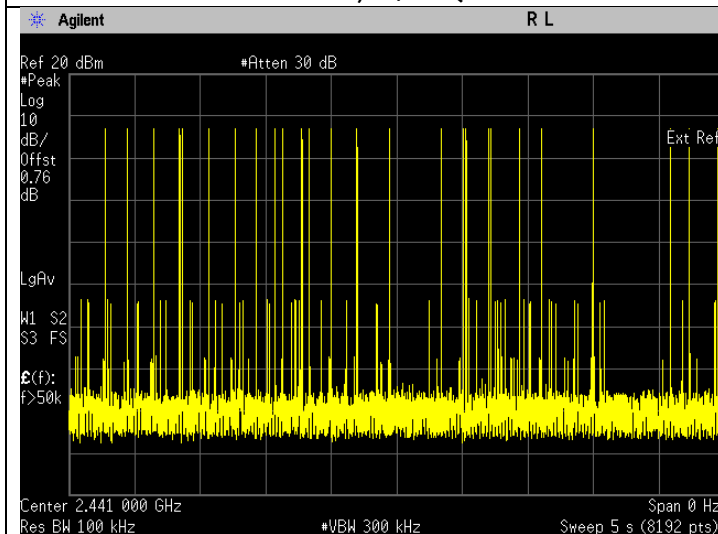
iii. Dwell Time at DH5, GFSK



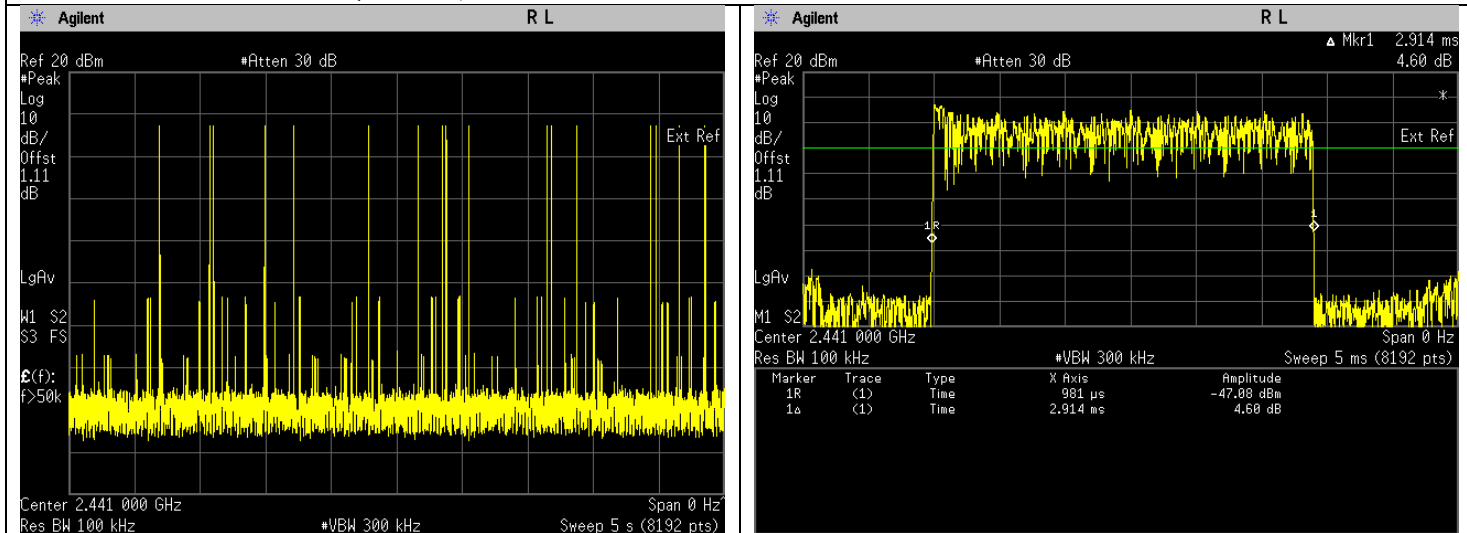
iv. Dwell Time at DH1, PI/4DQPSK



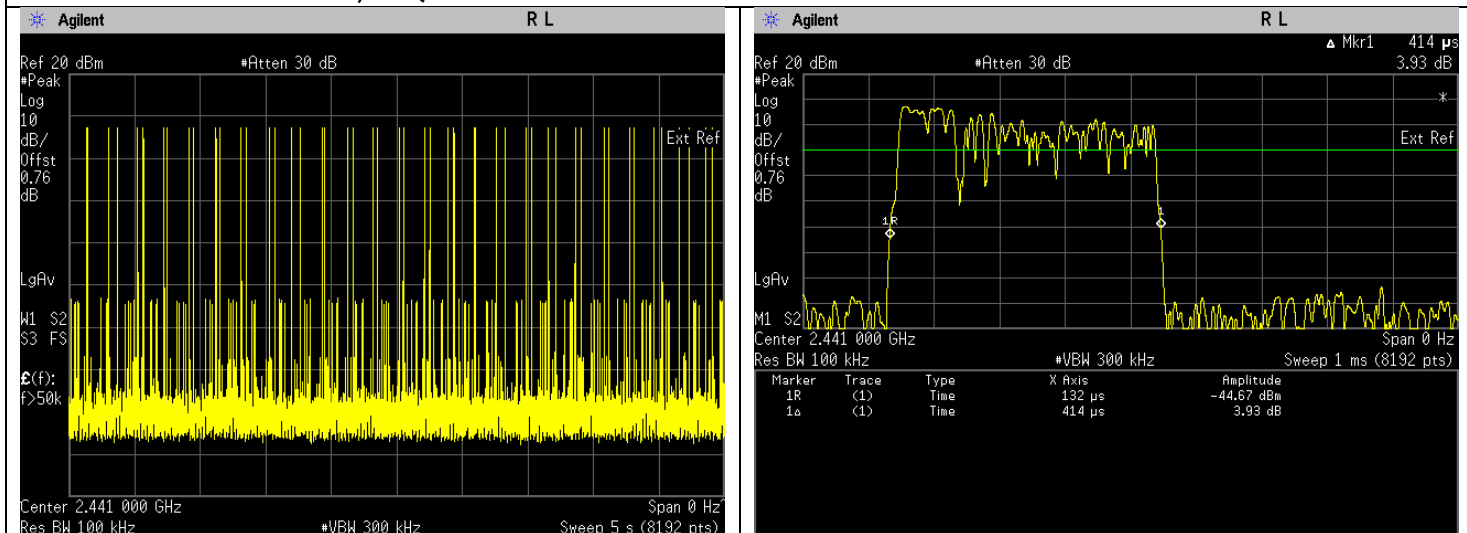
v. Dwell Time at DH3, PI/4DQPSK



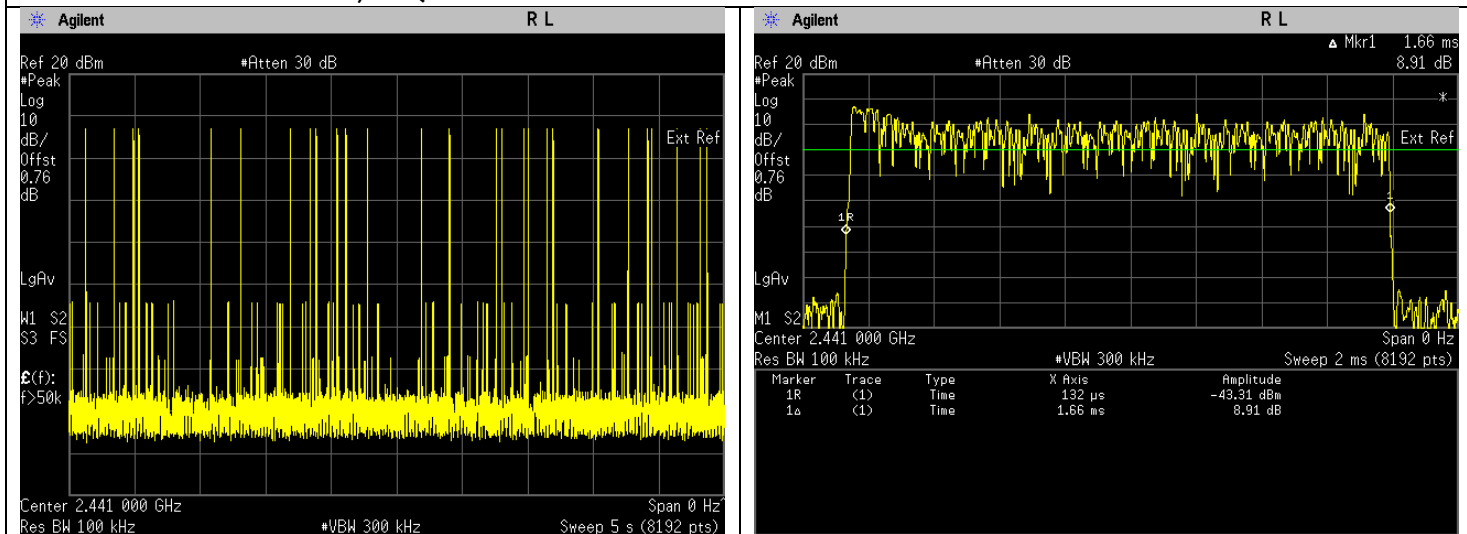
vi. Dwell Time at DH5, PI/4QPSK



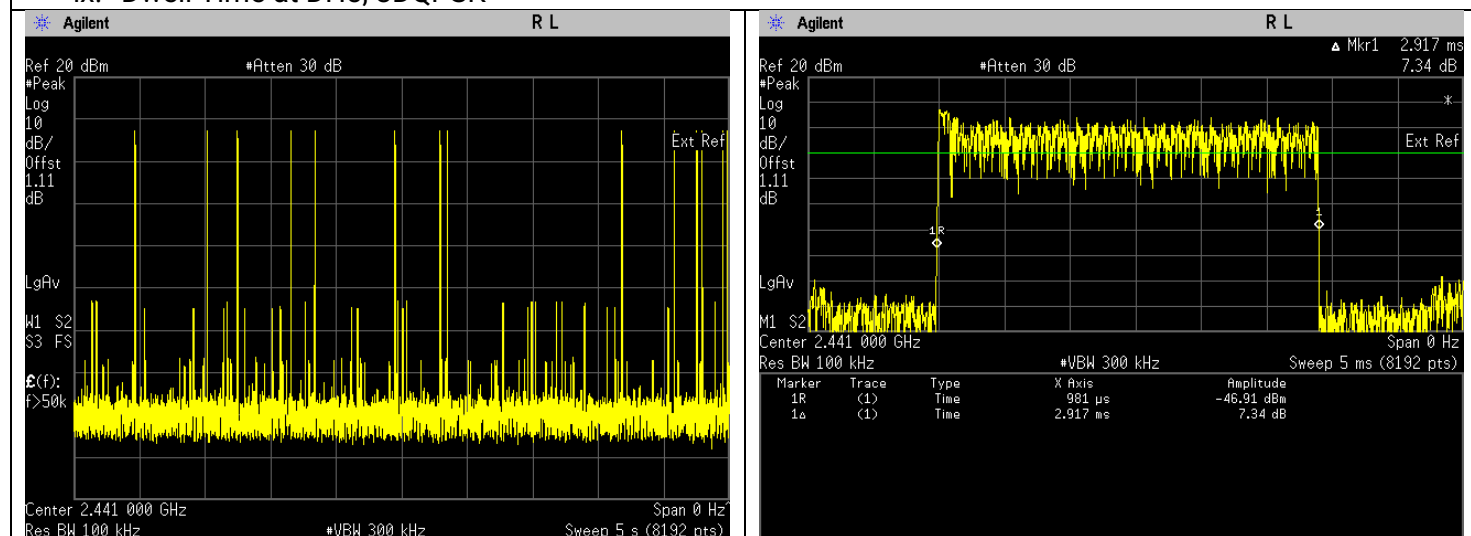
vii. Dwell Time at DH1, 8DQPSK



viii. Dwell Time at DH3, 8DQPSK

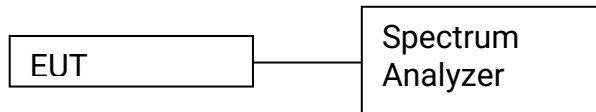


ix. Dwell Time at DH5, 8DQPSK



6.5. Number of hopping Frequency

6.5.1. Test Setup



- a) Check and ensure the spectrum analyzer well calibrate.
- b) Turn on the EUT and keep the EUT in hopping mode.
- c) Connect EUT's antenna terminal to spectrum analyzer with a low loss cable.
- d) Setting of Spectrum analyzer :
 - a. RBW = 300 kHz
 - b. VBW = 300 kHz
 - c. Detector mode = Peak
 - d. Trace = Max hold
- e) Allow the trace to stabilized & save the plot result from spectrum analyzer screen.
- f) Count number of channel frequency in the operating.
- g) Repeat above procedure for other test frequency.

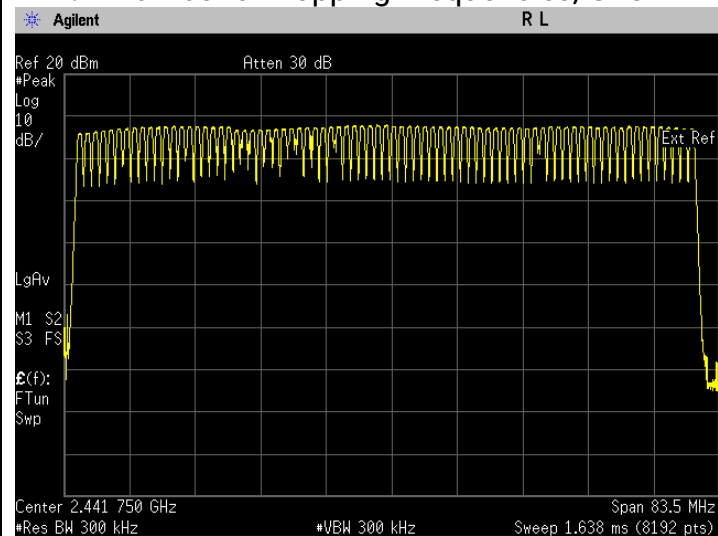
6.5.2. Test Limits:

Normal Condition (25 ° C)
≥ 15

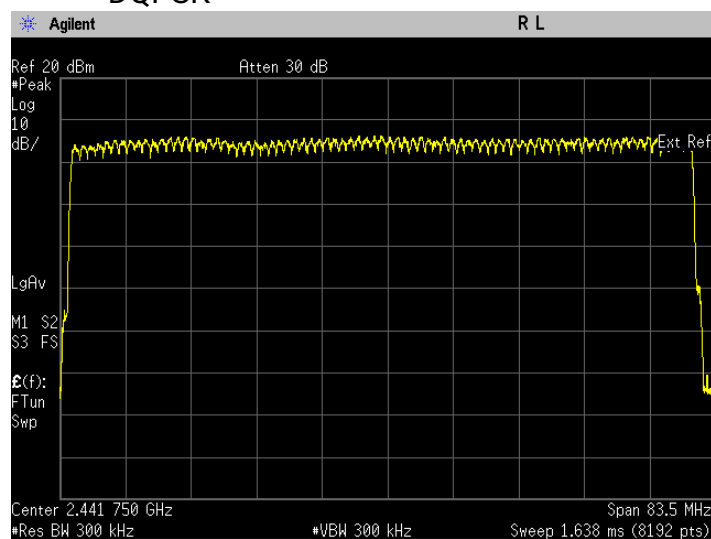
6.5.3. Test Result

Test Conditions			Results	
Modulation	Voltage(V)	Test Frequency (GHz)	No. of Hopping Frequencies	Status
GFSK	3.80	2.4020-2.4835	79	Pass
Pi/4DQPSK	3.80	2.4020-2.4835	79	Pass
8DPSK	3.80	2.4020-2.4835	79	Pass

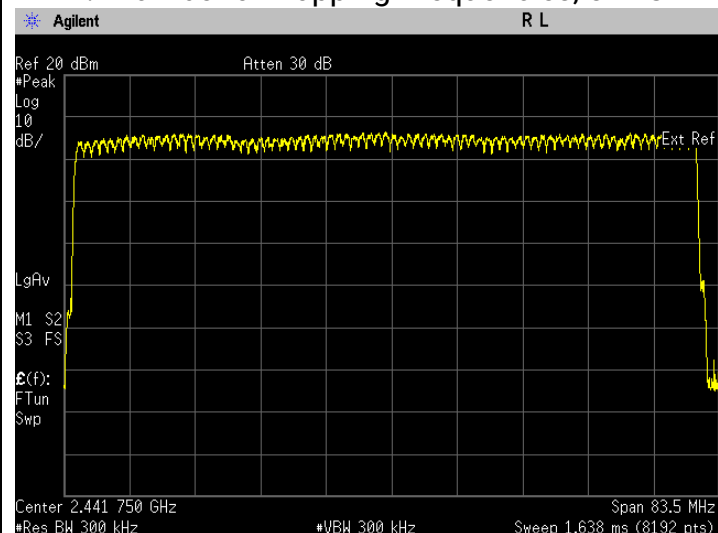
i. Number of Hopping Frequencies, GFSK



ii. Number of Hopping Frequencies, Pi/4 DQPSK

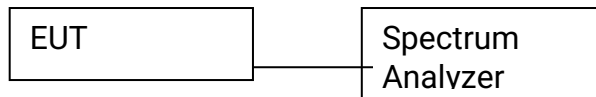


iii. Number of Hopping Frequencies, 8DPSK



6.6. Channel Separation

6.6.1. Test Setup



- a) Check and ensure the spectrum analyzer well calibrate.
- b) Turn on the EUT and keep the EUT in hopping mode.
- c) Connect EUT's antenna terminal to spectrum analyzer with a low loss cable.
- d) Setting of Spectrum analyzer :
 - a. RBW = 300 kHz
 - b. VBW = 300 kHz
 - c. SPAN = 3 MHz, center on test frequency
 - d. AMPLITUDE → Scale/Div = 5 dB
 - e. Detector mode = Peak
 - f. Trace = Max hold
 - g. Sweep = auto
- e) Measure the frequency different of these two adjacent channels with marker delta function & record the measurement results.
- f) Repeat above procedure with other different mode of operation.

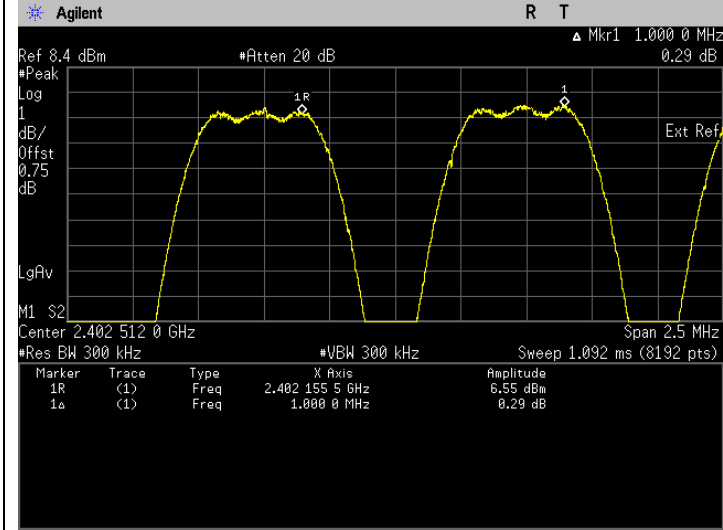
6.6.2. Test Limits:

Normal Condition (25 ° C)
≥ 2/3 of 20dB Bandwidth

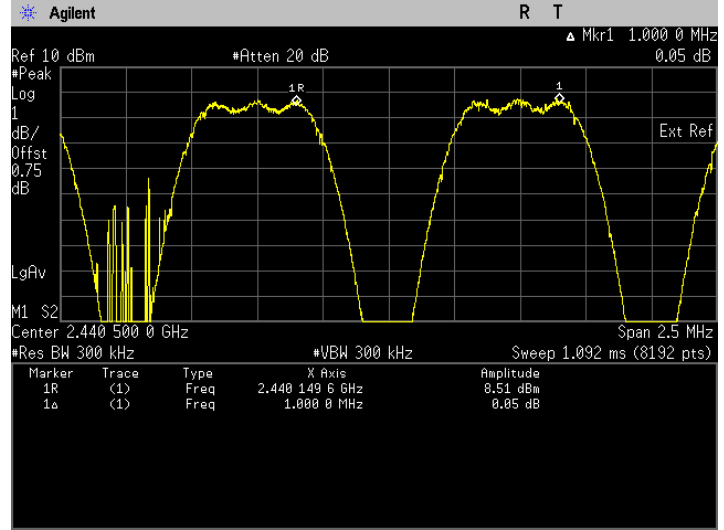
6.6.3. Test Result

Test Conditions			Results			
Modulation	Voltage(V)	Test Frequency (GHz)	Adjacent Channel Separation (MHz)	20dB Bandwidth (MHz)	2/3 of 20dB Bandwidth (kHz)	Status
GFSK	3.80	2.4020	1.000	0.941	627.333	Pass
		2.4410	1.000	0.943	628.667	Pass
		2.4800	1.000	0.940	626.667	Pass
Pi/4DQPSK	3.80	2.4020	1.000	1.287	858.000	Pass
		2.4410	1.000	1.285	856.667	Pass
		2.4800	1.000	1.282	854.667	Pass
8DPSK	3.80	2.4020	1.000	1.292	861.333	Pass
		2.4410	1.000	1.296	864.000	Pass
		2.4800	1.000	1.293	862.000	Pass

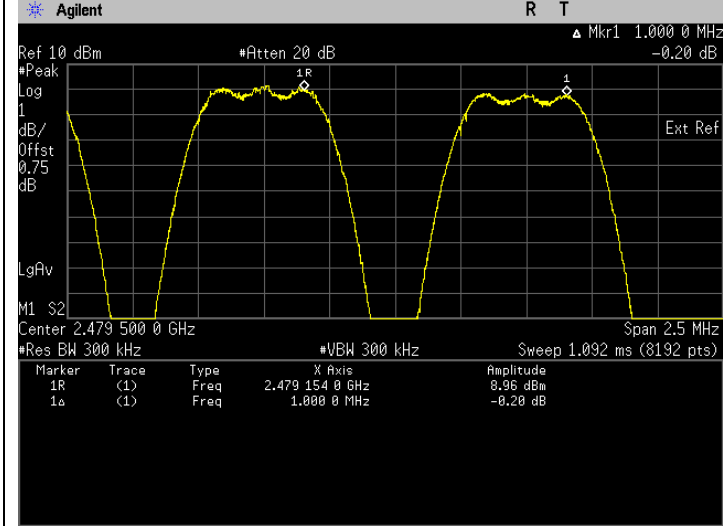
The Conducted RF Output Power test with result at low frequency, GFSK.



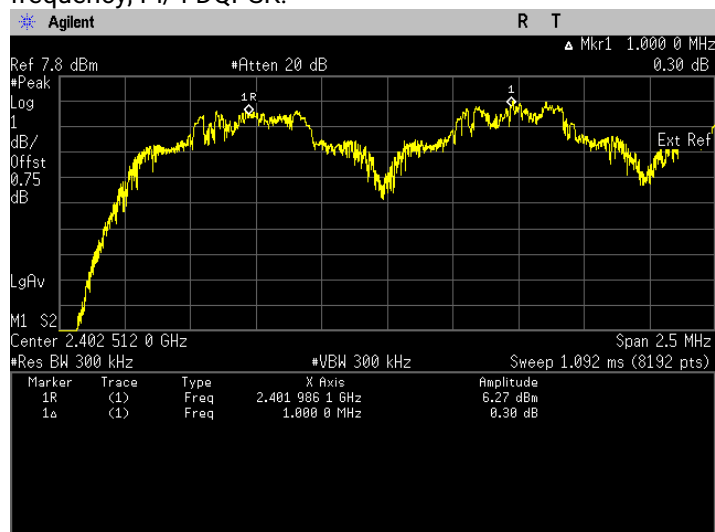
The Conducted RF Output Power test with result at mid frequency, GFSK.



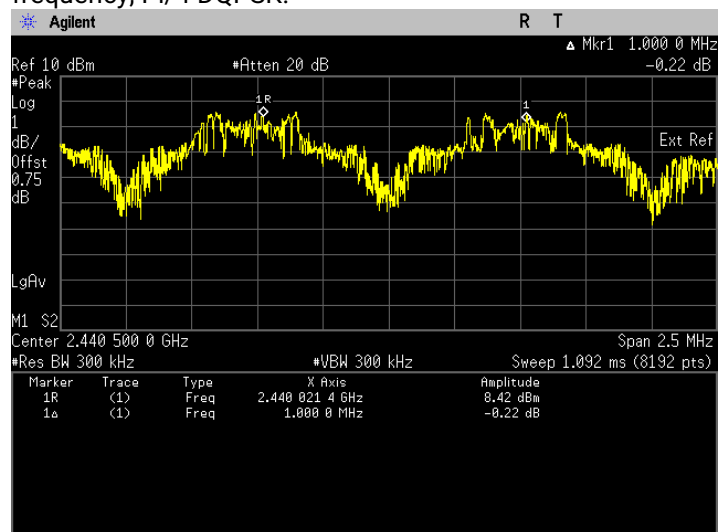
The Conducted RF Output Power test with result at high frequency, GFSK.



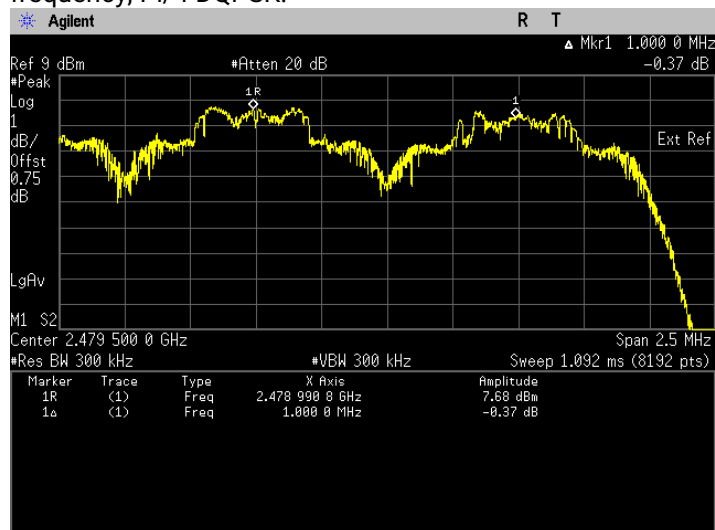
The Conducted RF Output Power test with result at low frequency, Pi/4 DQPSK.



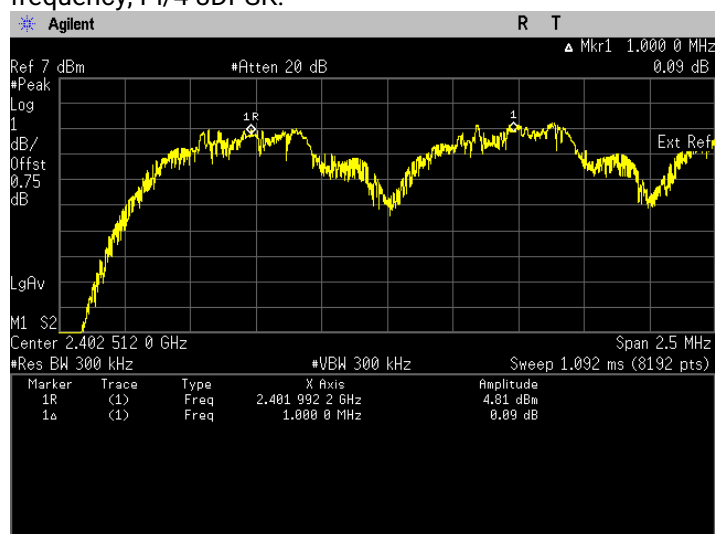
The Conducted RF Output Power test with result at mid frequency, Pi/4 DQPSK.



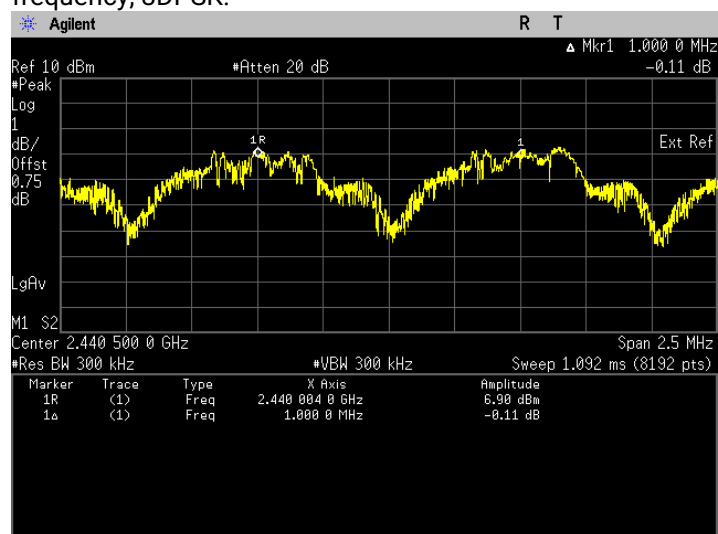
The Conducted RF Output Power test with result at high frequency, Pi/4 DQPSK.



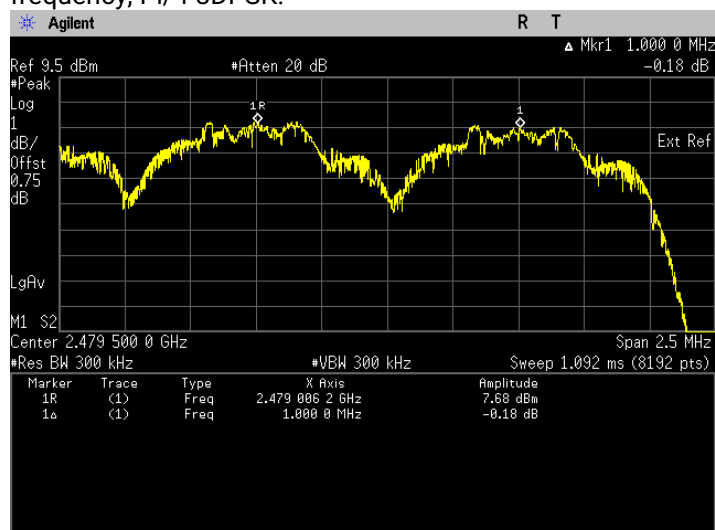
The Conducted RF Output Power test with result at low frequency, Pi/4 8DPSK.



The Conducted RF Output Power test with result at mid frequency, 8DPSK.

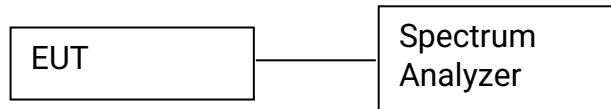


The Conducted RF Output Power test with result at high frequency, Pi/4 8DPSK.



6.7. Conducted Spurious Emission

6.7.1. Test Setup



- a) Check and ensure the spectrum analyzer well calibrate.
- b) Turn on the EUT and set EUT to transmit maximum data rate with hopping disable.
- c) Connect EUT's antenna terminal to spectrum analyzer with a low loss cable.
- d) Setting of Spectrum analyzer :
 - a. RBW = 100 kHz
 - b. VBW = 300 kHz
 - c. SPAN = Cover until 10th harmonic
 - d. Detector mode = Peak
 - e. AMPLITUDE → Scale/Div = 10 dB
 - f. Trace = Max hold
 - g. Sweep = auto
- e) Measure the captured spurious emission result and recording the plot.
- f) Repeat above procedure with other different mode of operation.

6.7.2. Test Limits:

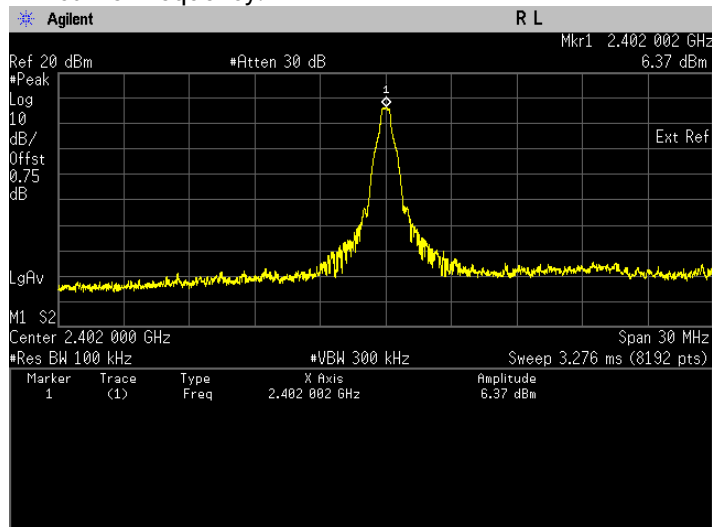
Normal Condition (25 ° C)
Shall be at least 20 dB below for peak power.

6.7.3. Test Data:

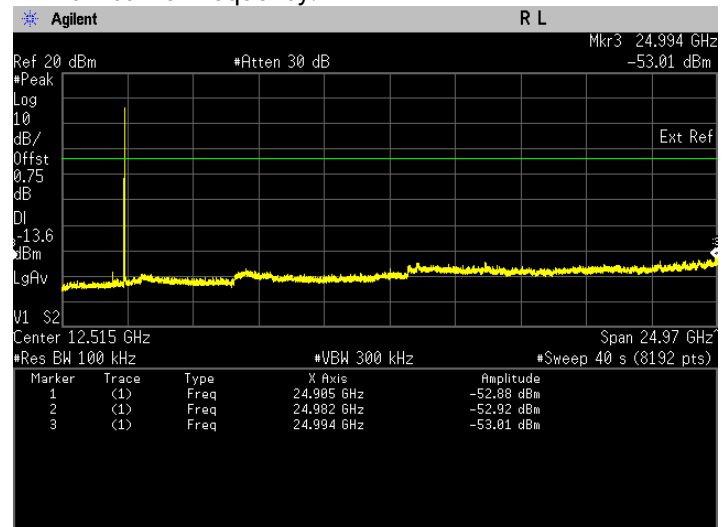
Test Conditions			Results		
Modulation	Voltage(V)	Test Frequency (GHz)	Spurs (MHz)	Level (dBm)	Status
GFSK	3.80	2.4020	2362.000	-52.879	Pass
		2.4410	3408.000	-52.363	Pass
		2.4800	24204.000	-52.813	Pass
Pi/4 DQPSK	3.80	2.4020	24146.000	-53.318	Pass
		2.4410	24860.000	-52.896	Pass
		2.4800	24564.000	-53.234	Pass
8DPSK	3.80	2.4020	24845.000	-52.951	Pass
		2.4410	24805.000	-53.136	Pass
		2.4800	24787.000	-53.008	Pass

GFSK Modulation:

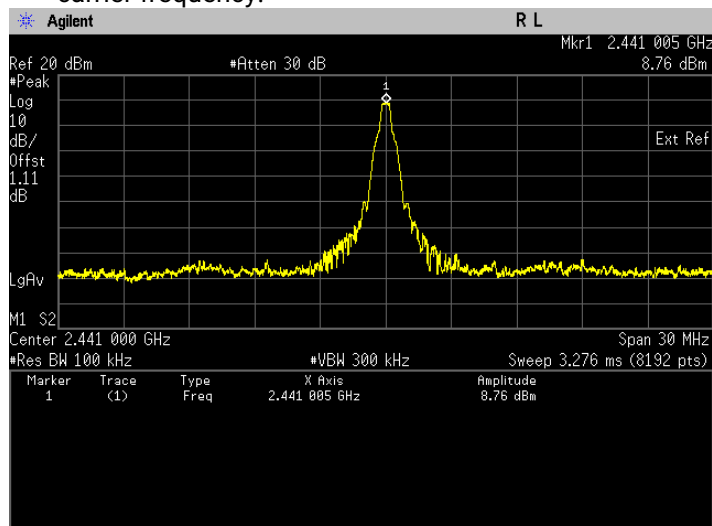
- The high emission level within the assigned band at low carrier frequency.



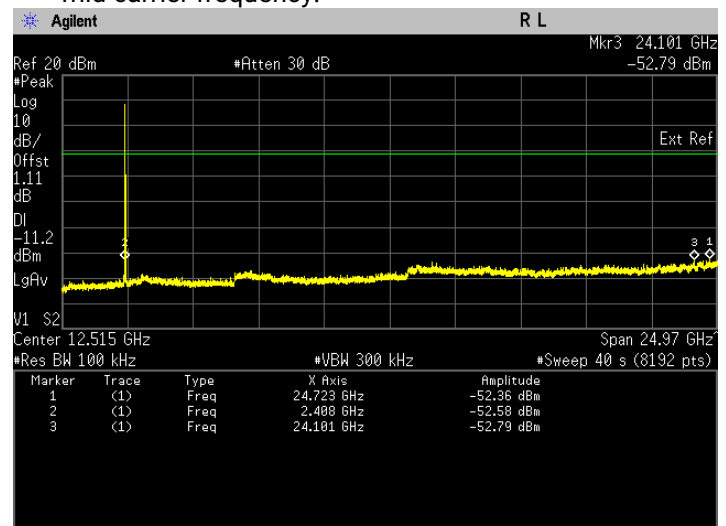
- Spurious emission measurement in 30MHz – 25GHz at low carrier frequency.



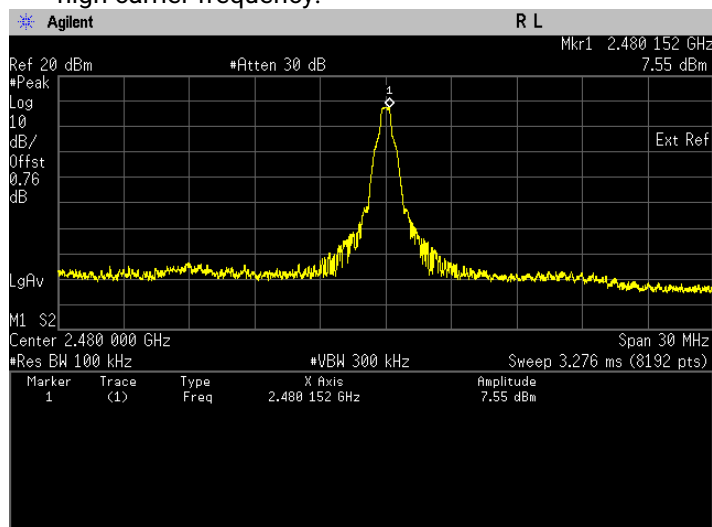
- The high emission level within the assigned band at mid carrier frequency.



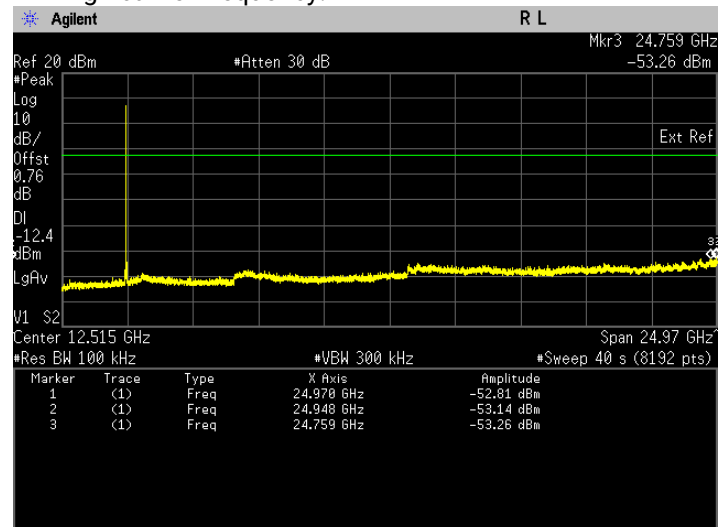
- Spurious emission measurement in 30MHz – 25GHz at mid carrier frequency.



- The high emission level within the assigned band at high carrier frequency.

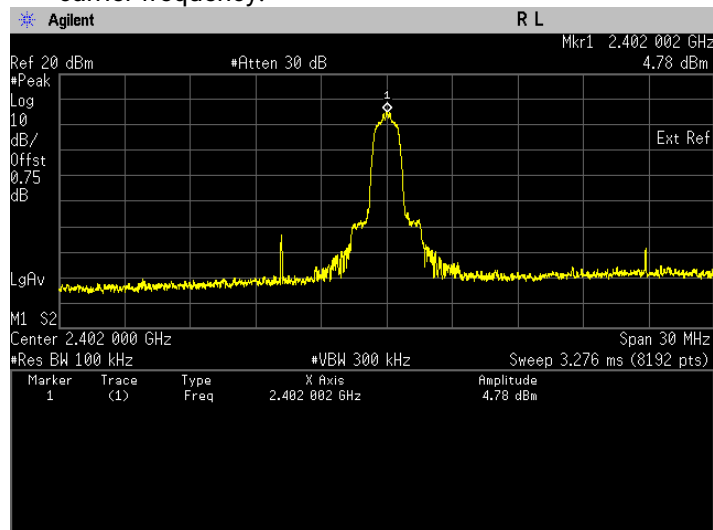


- Spurious emission measurement in 30MHz – 25GHz at high carrier frequency.

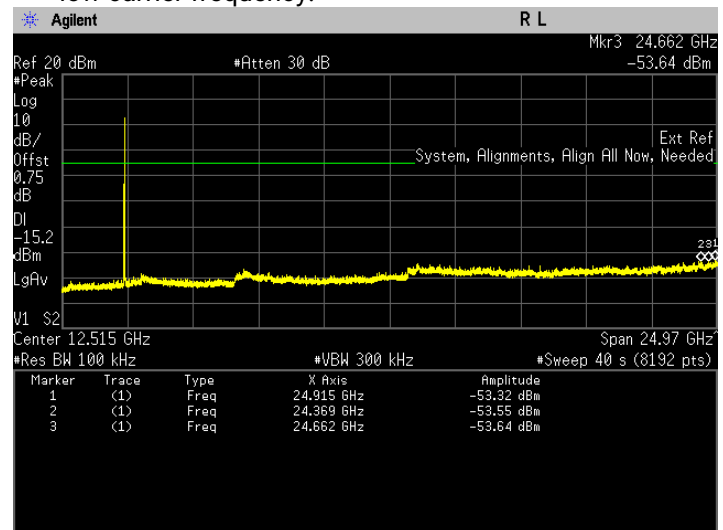


Pi/4 DQPSK Modulation:

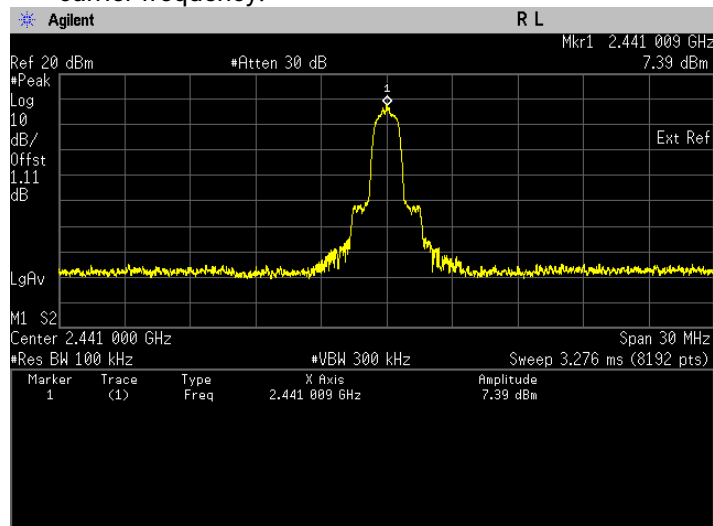
i. The high emission level within the assigned band at low carrier frequency.



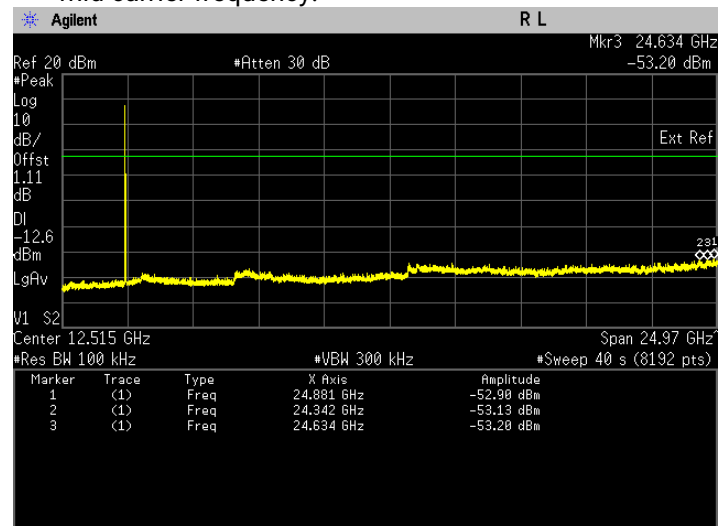
ii. Spurious emission measurement in 30MHz – 25GHz at low carrier frequency.



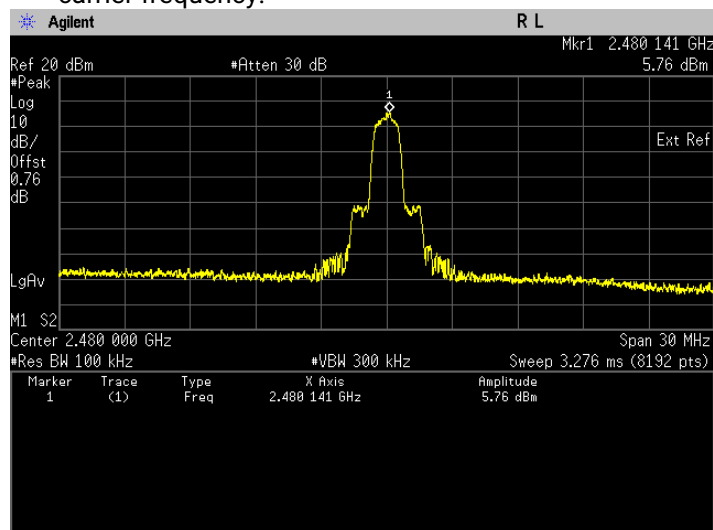
iii. The high emission level within the assigned band at mid carrier frequency.



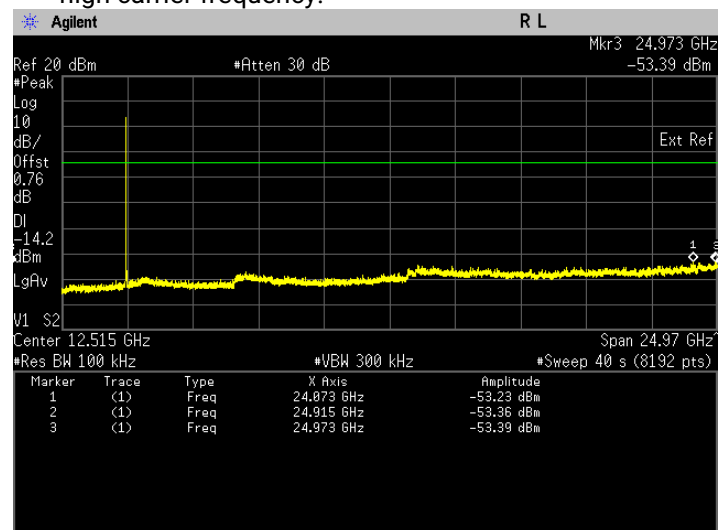
iv. Spurious emission measurement in 30MHz – 25GHz at mid carrier frequency.



v. The high emission level within the assigned band at high carrier frequency.

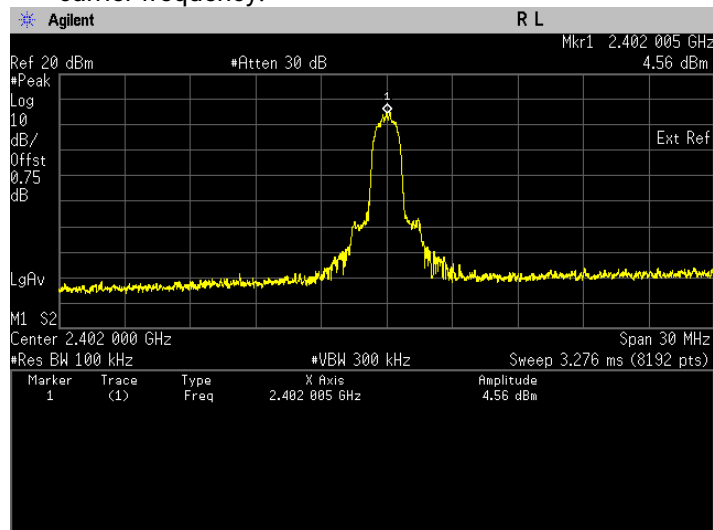


vi. Spurious emission measurement in 30MHz – 25GHz at high carrier frequency.

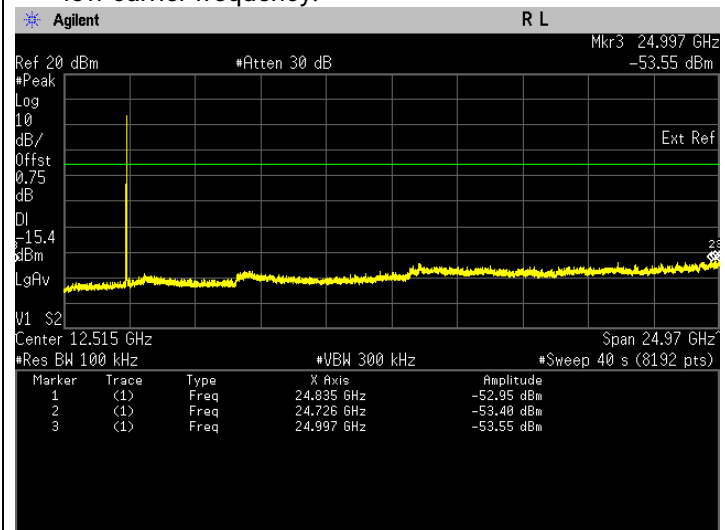


8DPSK Modulation:

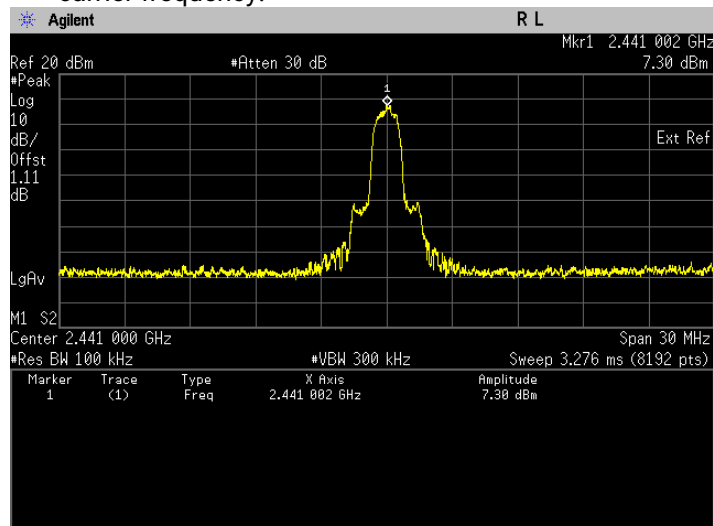
i. The high emission level within the assigned band at low carrier frequency.



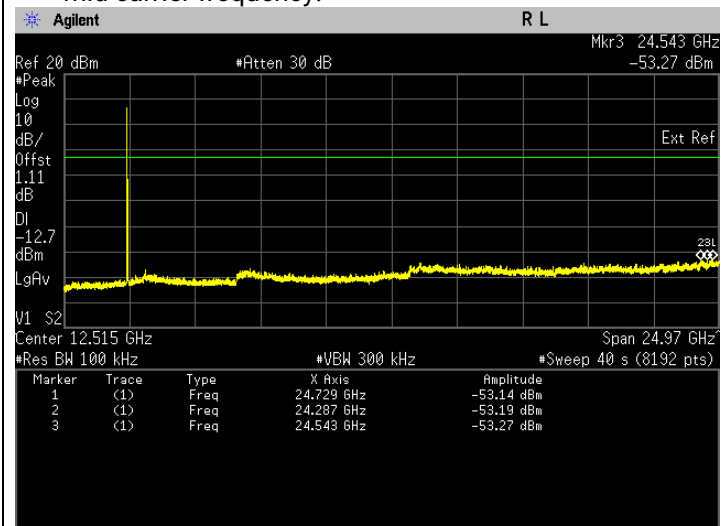
ii. Spurious emission measurement in 30MHz – 25GHz at low carrier frequency.



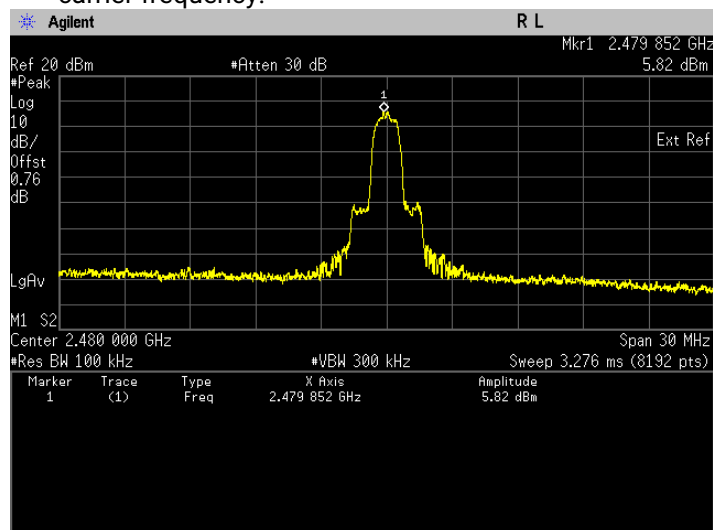
iii. The high emission level within the assigned band at mid carrier frequency.



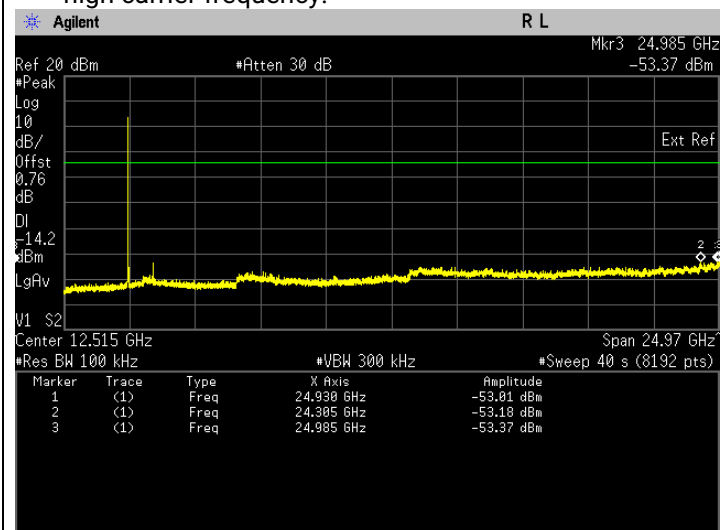
iv. Spurious emission measurement in 30MHz – 25GHz at mid carrier frequency.



v. The high emission level within the assigned band at high carrier frequency.

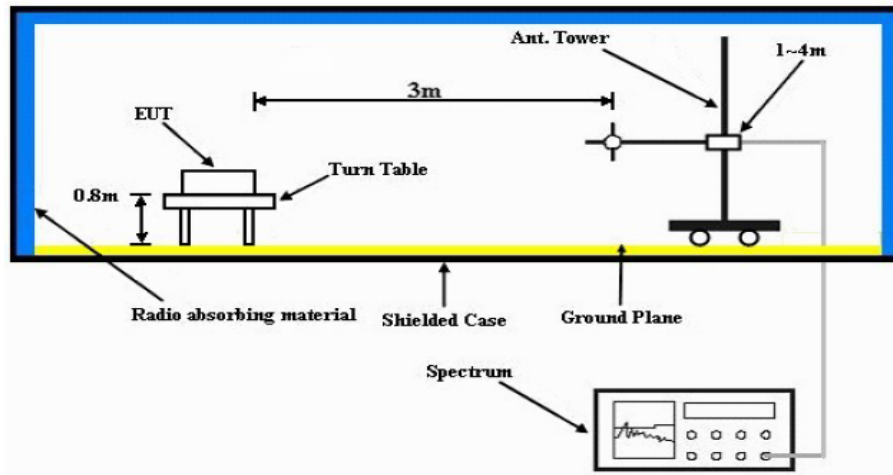


vi. Spurious emission measurement in 30MHz – 25GHz at high carrier frequency.



6.8. Radiated Emission within restricted Bands

6.8.1. Test Setup



- The EUT is placed on the top of a rotating table 0.8m (<1GHz) or 1.5m (>1GHz) above the ground at a 3m semi-anechoic chamber. The table is rotated 360 degrees to determine the position of the highest radiation.
- The EUT is set 3m away from the interference-receiving antenna, which is mounted on the top of a variable-height antenna tower.
- The antenna is Bilog/Horn antenna depend on which frequency range uses, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT is arranged to its worst case and then the antenna is tuned to heights from 1m to 4m and the rotatable table is turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system is set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- If the emission level of the EUT in peak mode is fall within the range of 10dB from the limit specified, the emissions would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. Otherwise, the testing could be stopped and the peak values of the EUT would be reported.

NOTE:

- The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi-peak detection at frequency below 1GHz.
- The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and video bandwidth is 3 MHz for Peak detection at frequency above 1 GHz.
- All modes of operation were investigated and the worst-case emissions are reported.

6.8.2. Test Limits:

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table. Other emissions shall be at least 20dB below the highest level of the desired power.

Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100**	3
88-216	150**	3
216-960	200**	3
Above 960	500	3

NOTE:

- The lower limit shall apply at the transition frequencies.
- Emission level (dBuV/m) = 20 log Emission level (uV/m).
- For frequencies above 1000 MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

6.8.3. Test Data:

SAC TX Restricted Band-edge : 1490N00-EMC-00039

FCC ID :	AZ489FT7187	IC :	109U-89FT7187
Model No :	HK2300A	Serial No :	64222BY0124
Battery :	PMNN4578A	Charger :	-
Accessory :	AN000508A01		
Test Mode :	BT - GFSK	Channel SP/Bandwidth (kHz) :	1000.0000
Test Frequency (MHz) :	2402.0000	Softpot Power :	8.00
Plane :	Y-Plane	Band :	-
Test Standard :	ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024		

Antenna Polarization	Detector	Spur Freq (MHz)	Spur Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Horizontal	Peak	2370.0600	46.75 *	74.00	27.25
Vertical	Peak	2377.8120	48.26 *	74.00	25.74
Vertical	Average	2390.0000	34.46	54.00	19.54
Horizontal	Average	2390.0000	34.38	54.00	19.62
Vertical	Peak	2390.0000	44.26 *	74.00	29.74
Horizontal	Peak	2390.0000	43.83 *	74.00	30.17

Temperature (°C) :	23.5	Humidity (%) :	68.9
Test Performed by :	Nazrin & Fuad	Test Date :	Sun, 22 Feb, 2026
System MU :	6.00 dB (30MHz-1000MHz); 5.14 dB (1000MHz-18000MHz); 5.36 dB (18000MHz-40000MHz)		

Remarks:

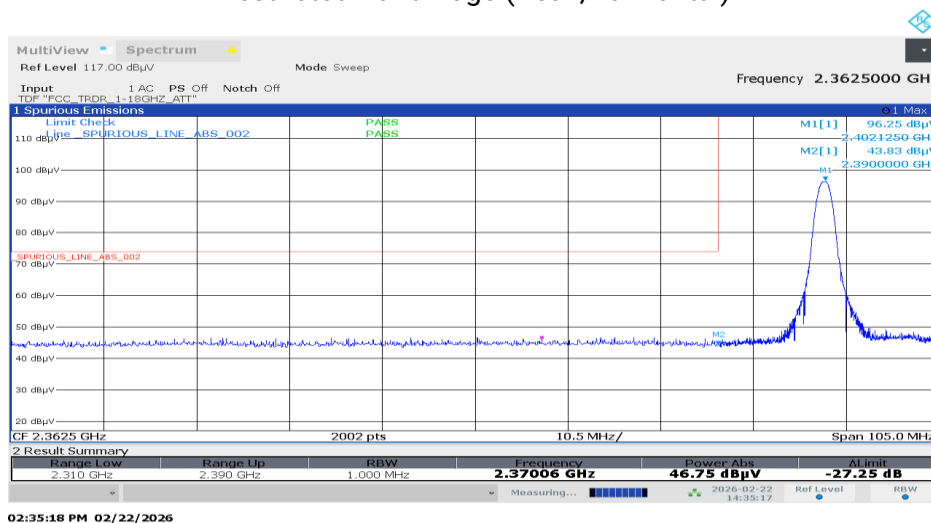
** Indicates the spurious emission could not be detected due to noise limitations or ambient.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported.

NOTE :

- 1) If the peak values is less than the QP limit, the QP result deemed to comply with QP limit.
- 2) If the peak values is less than the AV limit, the average result deemed to comply with AV limit.

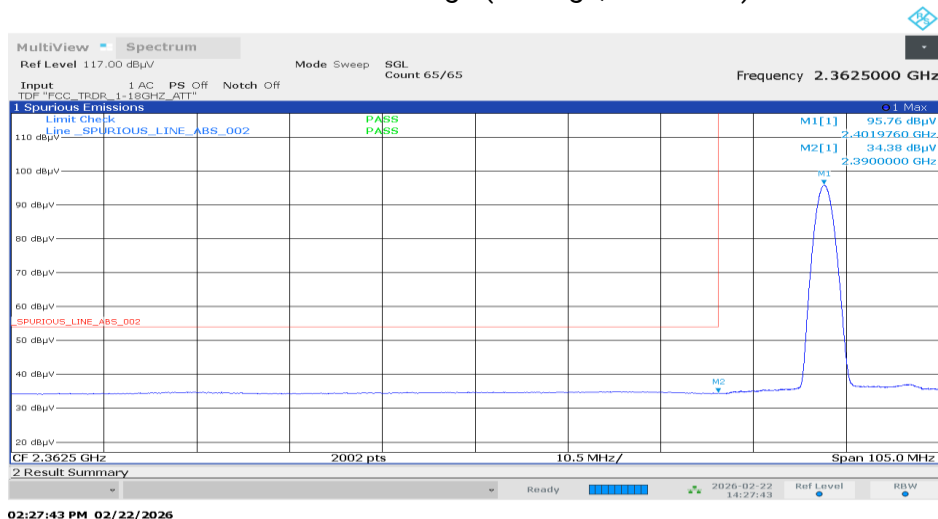
Restricted Band Edge (Peak,Horizontal)



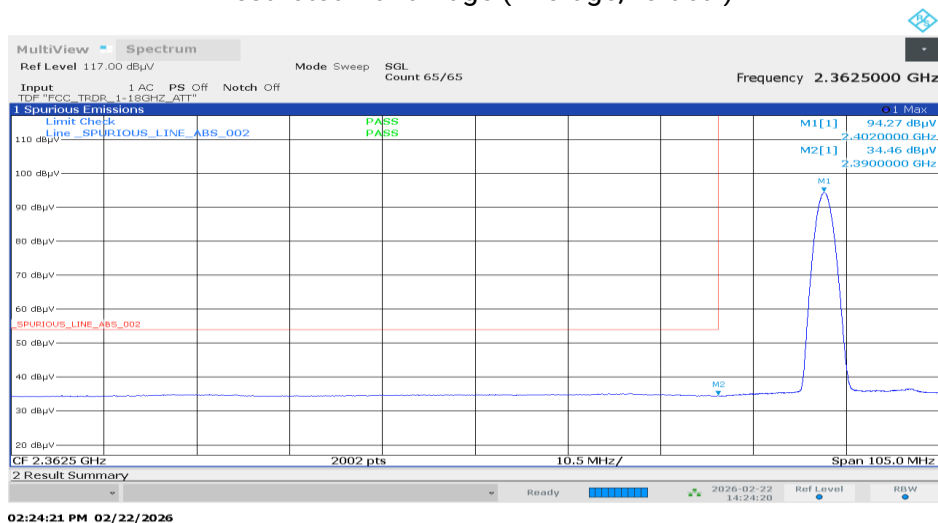
Restricted Band Edge (Peak,Vertical)



Restricted Band Edge (Average,Horizontal)



Restricted Band Edge (Average,Vertical)



Motorola Solutions

SAC TX Restricted Band-edge : 1490N00-EMC-00039

FCC ID :	AZ489FT7187	IC :	109U-89FT7187
Model No :	HK2300A	Serial No :	64222BY0124
Battery :	PMNN4578A	Charger :	-
Accessory :	AN000508A01		
Test Mode :	BT - GFSK	Channel SP/Bandwidth (kHz) :	1000.0000
Test Frequency (MHz) :	2480.0000	Softpot Power :	8.00
Plane :	Y-Plane	Band :	-
Test Standard :	ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024		

Antenna Polarization	Detector	Spur Freq (MHz)	Spur Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Vertical	Average	2483.5000	36.90	54.00	17.10
Horizontal	Average	2483.5000	35.32	54.00	18.68
Vertical	Peak	2483.5000	45.86 *	74.00	28.14
Horizontal	Peak	2483.5000	44.09 *	74.00	29.91
Horizontal	Peak	2483.6070	49.61 *	74.00	24.39
Vertical	Peak	2483.9200	52.91 *	74.00	21.09
Horizontal	Peak	2484.2830	48.11 *	74.00	25.89
Horizontal	Peak	2484.5470	46.57 *	74.00	27.43
Horizontal	Peak	2485.4530	46.15 *	74.00	27.85
Horizontal	Peak	2487.0360	46.69 *	74.00	27.31
Horizontal	Peak	2491.1240	46.17 *	74.00	27.83
Horizontal	Peak	2491.9970	46.14 *	74.00	27.86
Horizontal	Peak	2492.5740	46.33 *	74.00	27.67
Vertical	Peak	2494.3870	45.70 *	74.00	28.30
Vertical	Peak	2494.8490	45.67 *	74.00	28.33
Horizontal	Peak	2495.2440	46.29 *	74.00	27.71
Vertical	Peak	2496.7280	45.64 *	74.00	28.36
Vertical	Peak	2497.6020	45.87 *	74.00	28.13
Vertical	Peak	2498.2280	45.73 *	74.00	28.27
Vertical	Peak	2498.9700	45.81 *	74.00	28.19
Vertical	Peak	2499.0850	46.15 *	74.00	27.85
Vertical	Peak	2499.6130	45.57 *	74.00	28.43
Vertical	Peak	2499.8600	46.18 *	74.00	27.82
Horizontal	Peak	2499.9420	45.27 *	74.00	28.73

Temperature (°C) :	23.5	Humidity (%) :	68.9
Test Performed by :	Nazrin & Fuad	Test Date :	Sun, 22 Feb, 2026
System MU :	6.00 dB (30MHz-1000MHz); 5.14 dB (1000MHz-18000MHz); 5.36 dB (18000MHz-40000MHz)		

Remarks:

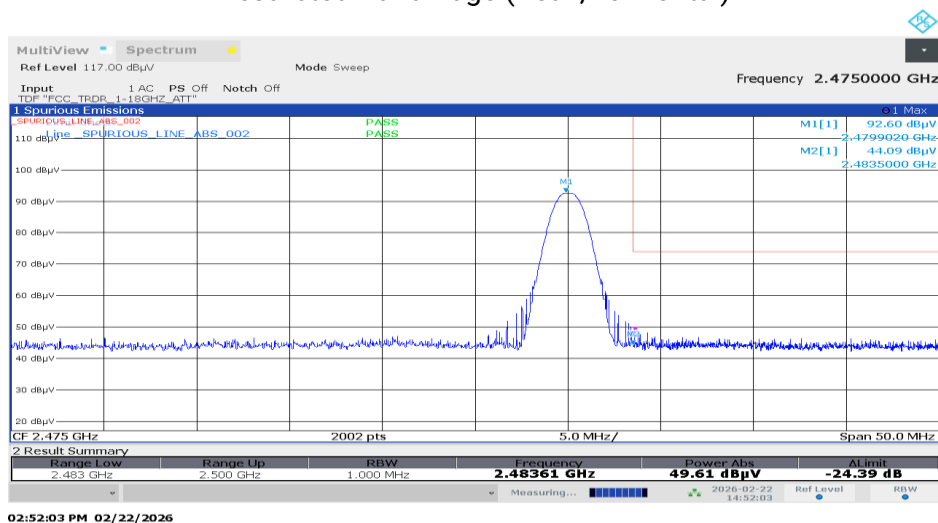
** Indicates the spurious emission could not be detected due to noise limitations or ambient.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported.

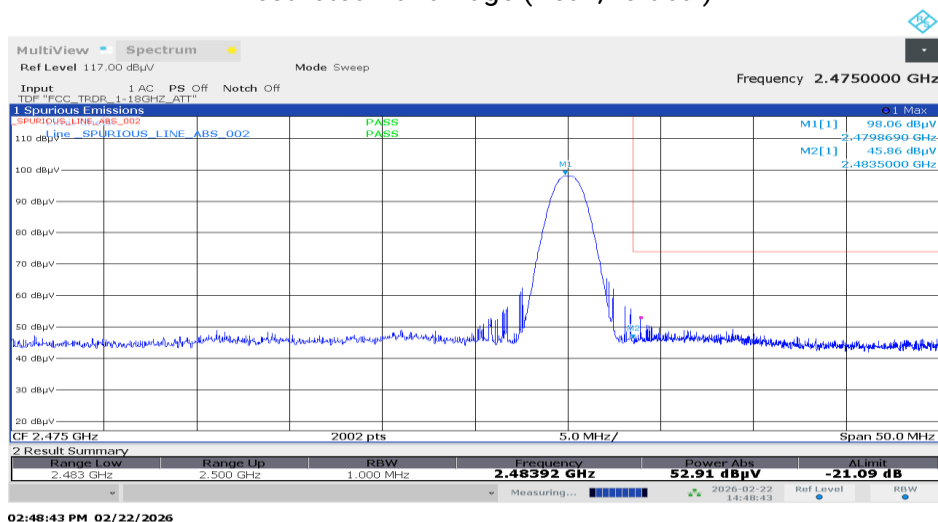
NOTE :

- 1) If the peak values is less than the QP limit, the QP result deemed to comply with QP limit.
- 2) If the peak values is less than the AV limit, the average result deemed to comply with AV limit.

Restricted Band Edge (Peak,Horizontal)



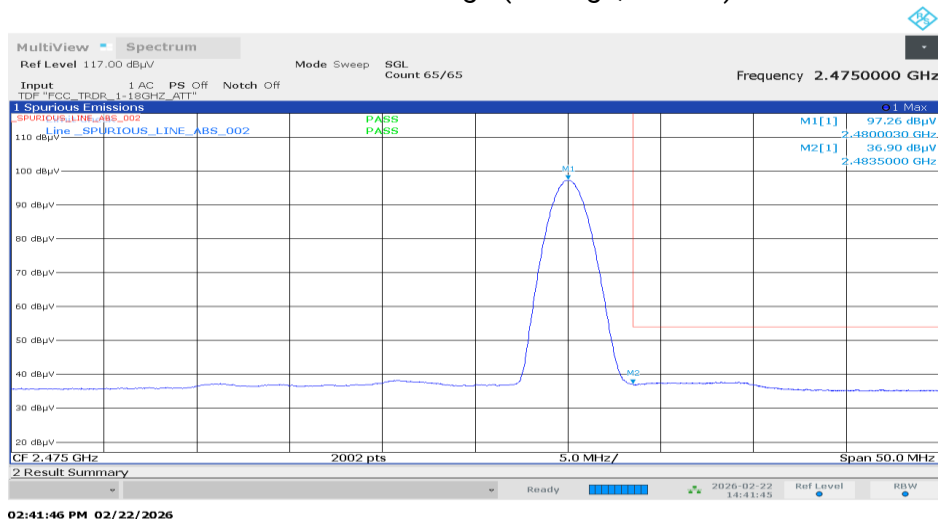
Restricted Band Edge (Peak,Vertical)



Restricted Band Edge (Average,Horizontal)



Restricted Band Edge (Average,Vertical)



SAC TX Restricted Band-edge : 1490N00-EMC-00039

FCC ID :	AZ489FT7187	IC :	109U-89FT7187
Model No :	HK2300A	Serial No :	64222BY0124
Battery :	PMNN4578A	Charger :	-
Accessory :	AN000508A01		
Test Mode :	BT - PI/4-DQPSK	Channel SP/Bandwidth (kHz) :	1000.0000
Test Frequency (MHz) :	2402.0000	Softpot Power :	8.00
Plane :	Y-Plane	Band :	-
Test Standard :	ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024		

Antenna Polarization	Detector	Spur Freq (MHz)	Spur Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Vertical	Peak	2362.3080	47.72 *	74.00	26.28
Horizontal	Peak	2381.1690	47.03 *	74.00	26.97
Vertical	Average	2390.0000	34.46	54.00	19.54
Horizontal	Average	2390.0000	34.31	54.00	19.69
Vertical	Peak	2390.0000	45.77 *	74.00	28.23
Horizontal	Peak	2390.0000	43.72 *	74.00	30.28

Temperature (°C) :	23.5	Humidity (%) :	68.9
Test Performed by :	Nazrin & Fuad	Test Date :	Sun, 22 Feb, 2026
System MU :	6.00 dB (30MHz-1000MHz); 5.14 dB (1000MHz-18000MHz); 5.36 dB (18000MHz-40000MHz)		

Remarks:

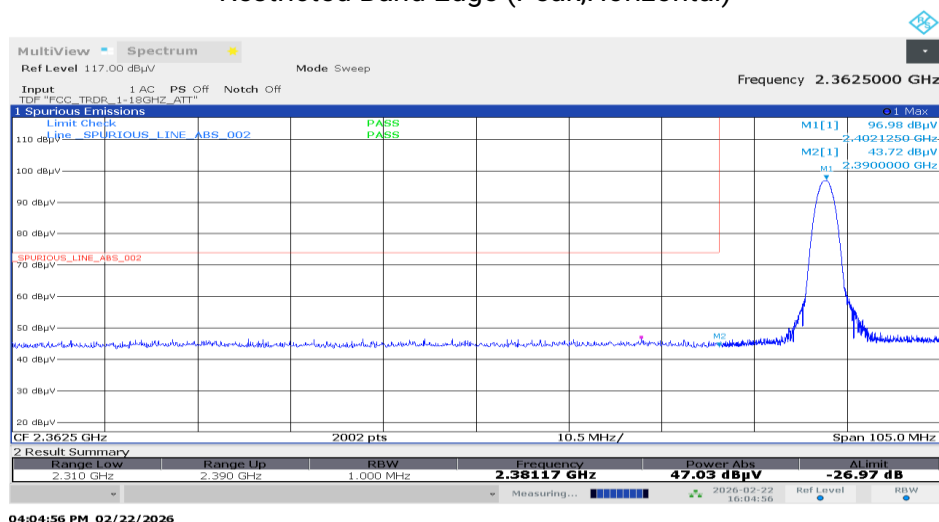
** Indicates the spurious emission could not be detected due to noise limitations or ambient.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported.

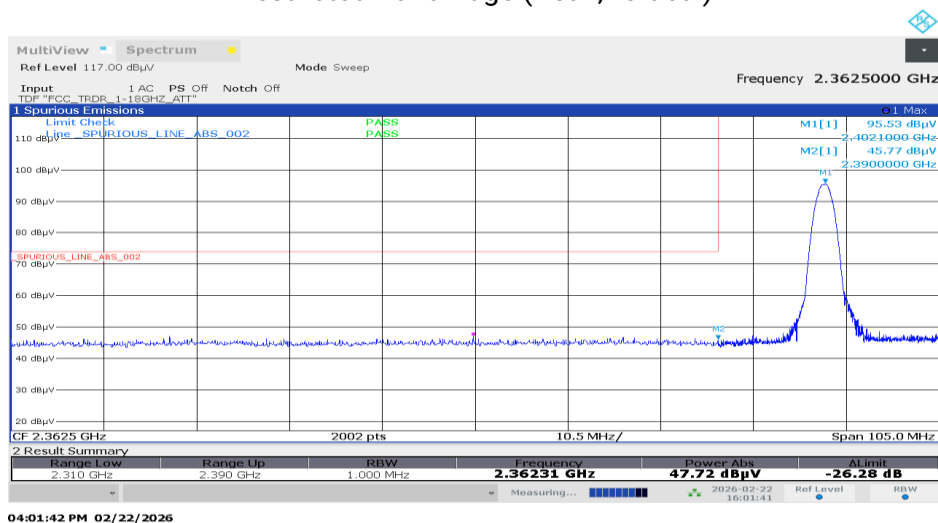
NOTE :

- 1) If the peak values is less than the QP limit, the QP result deemed to comply with QP limit.
- 2) If the peak values is less than the AV limit, the average result deemed to comply with AV limit.

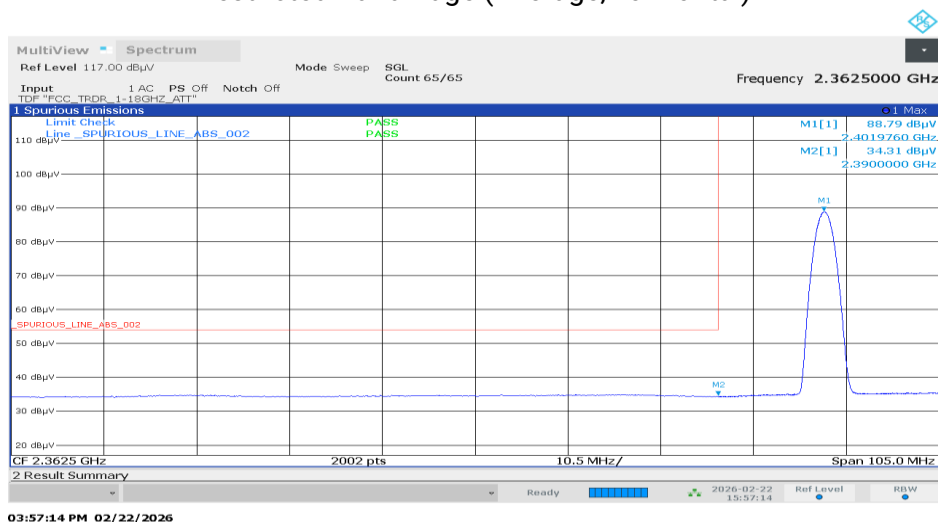
Restricted Band Edge (Peak,Horizontal)



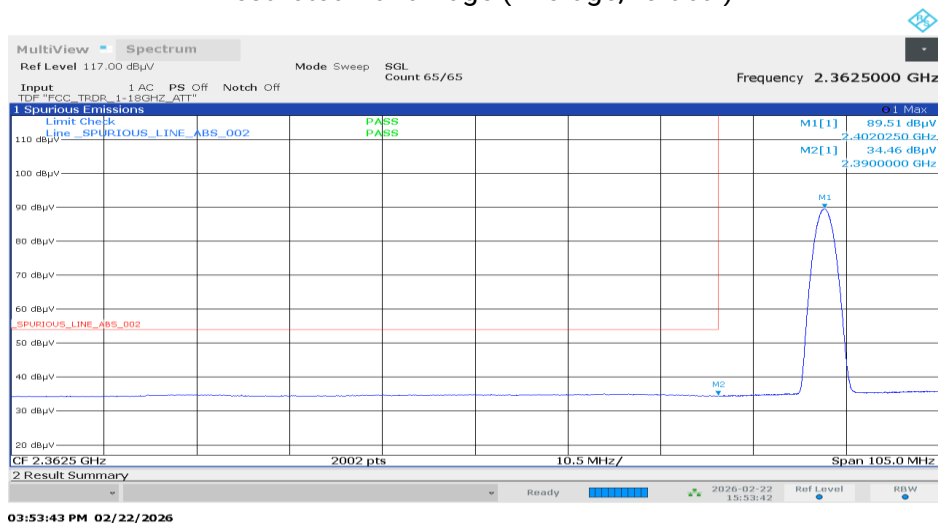
Restricted Band Edge (Peak,Vertical)



Restricted Band Edge (Average,Horizontal)



Restricted Band Edge (Average,Vertical)



Motorola Solutions

SAC TX Restricted Band-edge : 1490N00-EMC-00039

FCC ID :	AZ489FT7187	IC :	109U-89FT7187
Model No :	HK2300A	Serial No :	64222BY0124
Battery :	PMNN4578A	Charger :	-
Accessory :	AN000508A01		
Test Mode :	BT - PI/4-DQPSK	Channel SP/Bandwidth (kHz) :	1000.0000
Test Frequency (MHz) :	2480.0000	Softpot Power :	8.00
Plane :	Y-Plane	Band :	-
Test Standard :	ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024		

Antenna Polarization	Detector	Spur Freq (MHz)	Spur Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Vertical	Average	2483.5000	36.27	54.00	17.73
Horizontal	Average	2483.5000	35.65	54.00	18.35
Vertical	Peak	2483.5000	44.82 *	74.00	29.18
Horizontal	Peak	2483.5000	49.01 *	74.00	24.99
Horizontal	Peak	2483.5080	49.01 *	74.00	24.99
Horizontal	Peak	2483.9200	46.86 *	74.00	27.14
Vertical	Peak	2484.0030	52.50 *	74.00	21.50
Vertical	Peak	2484.1020	51.29 *	74.00	22.71
Horizontal	Peak	2484.1510	48.70 *	74.00	25.30
Horizontal	Peak	2485.2220	46.12 *	74.00	27.88
Horizontal	Peak	2485.5850	46.38 *	74.00	27.62
Horizontal	Peak	2486.5580	46.12 *	74.00	27.88
Horizontal	Peak	2487.2330	46.29 *	74.00	27.71
Horizontal	Peak	2489.9860	46.04 *	74.00	27.96
Horizontal	Peak	2492.8050	46.08 *	74.00	27.92
Vertical	Peak	2493.6790	45.67 *	74.00	28.33
Vertical	Peak	2495.8210	45.60 *	74.00	28.40
Vertical	Peak	2497.5030	45.50 *	74.00	28.50
Vertical	Peak	2497.7170	46.27 *	74.00	27.73
Vertical	Peak	2498.0630	45.55 *	74.00	28.45
Vertical	Peak	2498.2280	46.76 *	74.00	27.24
Vertical	Peak	2498.5580	46.14 *	74.00	27.86
Vertical	Peak	2499.8600	45.55 *	74.00	28.45
Horizontal	Peak	2499.9750	45.06 *	74.00	28.94

Temperature (°C) :	23.5	Humidity (%) :	68.9
Test Performed by :	Nazrin & Fuad	Test Date :	Sun, 22 Feb, 2026
System MU :	6.00 dB (30MHz-1000MHz); 5.14 dB (1000MHz-18000MHz); 5.36 dB (18000MHz-40000MHz)		

Remarks:

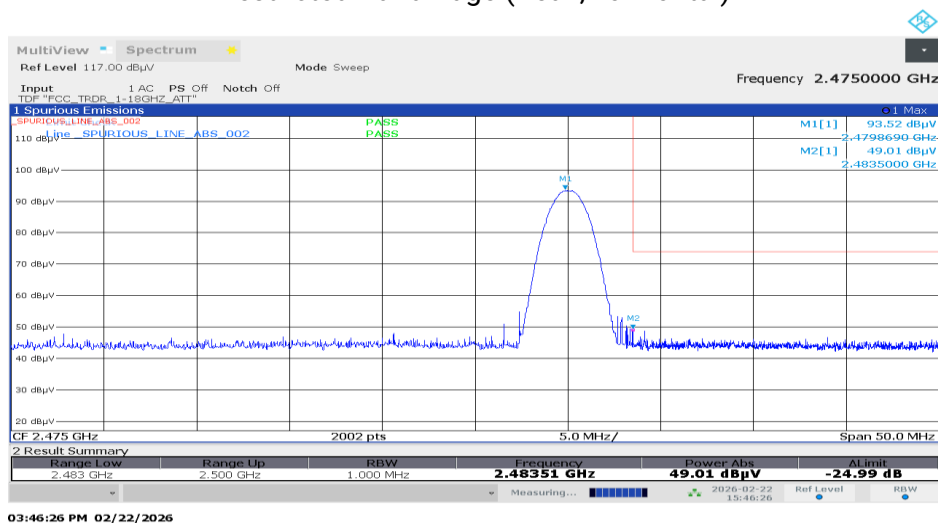
** Indicates the spurious emission could not be detected due to noise limitations or ambient.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported.

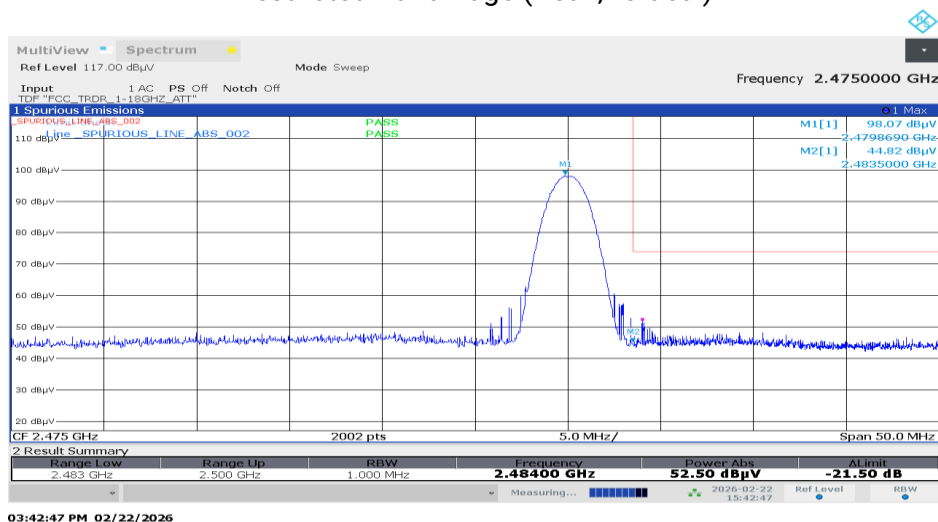
NOTE :

- 1) If the peak values is less than the QP limit, the QP result deemed to comply with QP limit.
- 2) If the peak values is less than the AV limit, the average result deemed to comply with AV limit.

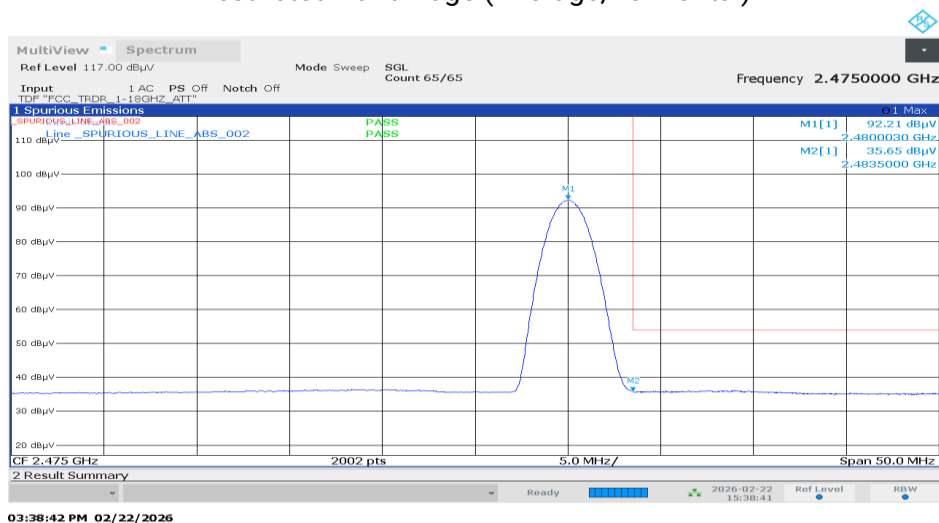
Restricted Band Edge (Peak,Horizontal)



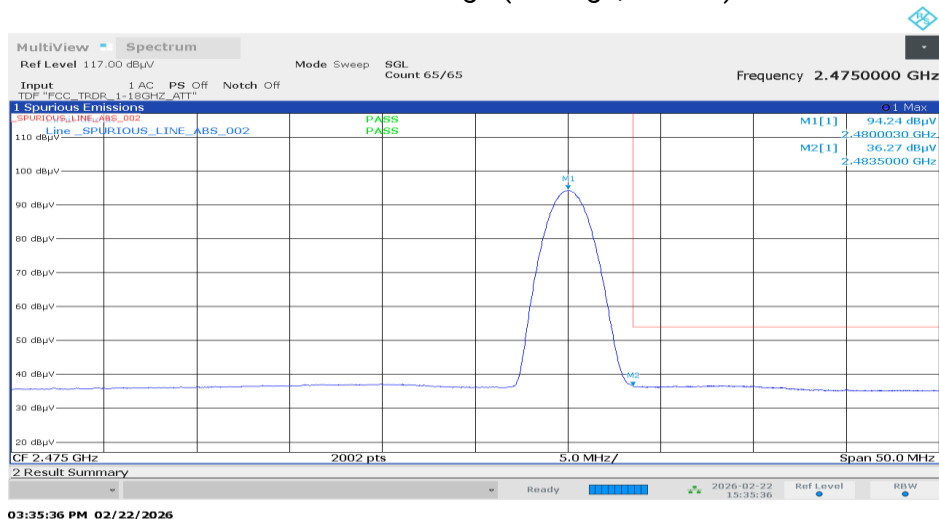
Restricted Band Edge (Peak,Vertical)



Restricted Band Edge (Average,Horizontal)



Restricted Band Edge (Average,Vertical)



SAC TX Restricted Band-edge : 1490N00-EMC-00039

FCC ID :	AZ489FT7187	IC :	109U-89FT7187
Model No :	HK2300A	Serial No :	64222BY0124
Battery :	PMNN4578A	Charger :	-
Accessory :	AN000508A01		
Test Mode :	BT - 8-DPSK	Channel SP/Bandwidth (kHz) :	1000.0000
Test Frequency (MHz) :	2402.0000	Softpot Power :	8.00
Plane :	Y-Plane	Band :	-
Test Standard :	ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024		

Antenna Polarization	Detector	Spur Freq (MHz)	Spur Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)
Horizontal	Peak	2323.7060	46.56 *	74.00	27.44
Vertical	Peak	2374.2160	47.38 *	74.00	26.62
Vertical	Average	2390.0000	34.38	54.00	19.62
Horizontal	Average	2390.0000	34.31	54.00	19.69
Vertical	Peak	2390.0000	44.63 *	74.00	29.37
Horizontal	Peak	2390.0000	44.83 *	74.00	29.17

Temperature (°C) :	23.5	Humidity (%) :	68.9
Test Performed by :	Nazrin & Fuad	Test Date :	Sun, 22 Feb, 2026
System MU :	6.00 dB (30MHz-1000MHz); 5.14 dB (1000MHz-18000MHz); 5.36 dB (18000MHz-40000MHz)		

Remarks:

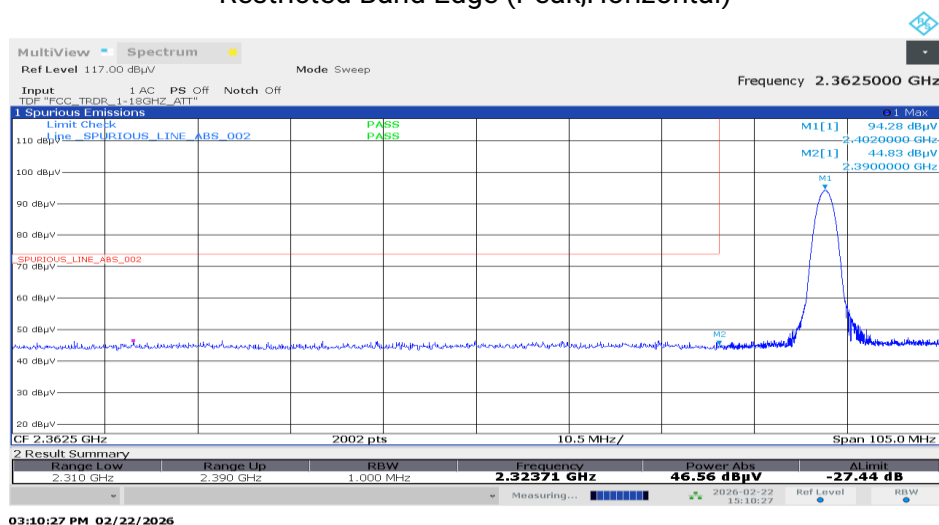
** Indicates the spurious emission could not be detected due to noise limitations or ambient.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported.

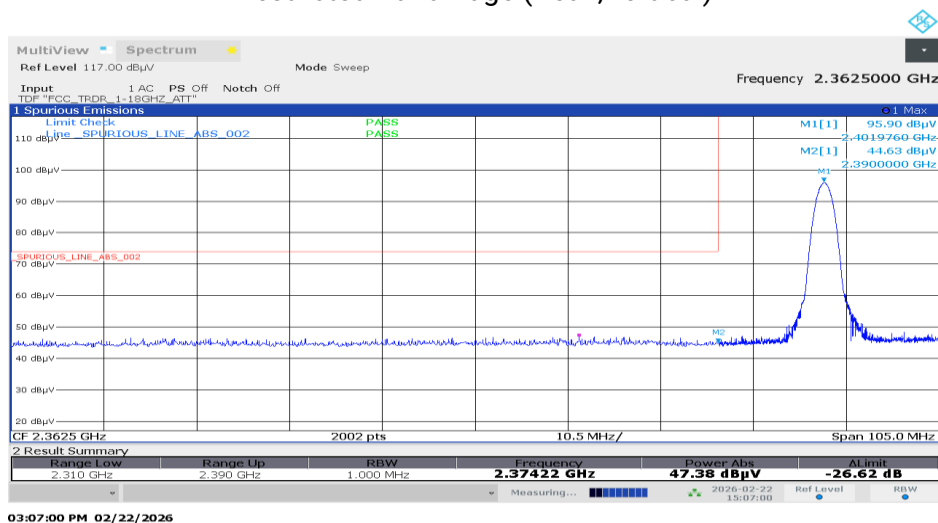
NOTE :

- 1) If the peak values is less than the QP limit, the QP result deemed to comply with QP limit.
- 2) If the peak values is less than the AV limit, the average result deemed to comply with AV limit.

Restricted Band Edge (Peak,Horizontal)



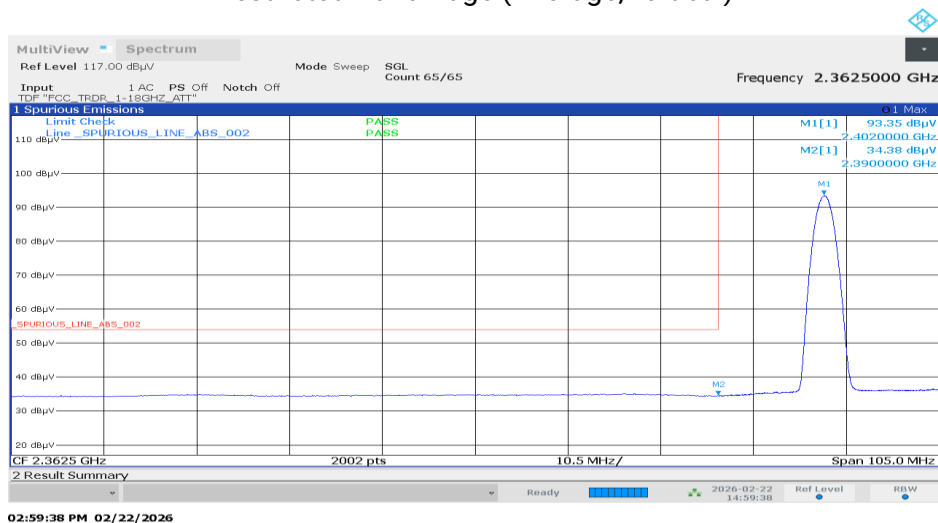
Restricted Band Edge (Peak,Vertical)



Restricted Band Edge (Average,Horizontal)



Restricted Band Edge (Average,Vertical)



Motorola Solutions

SAC TX Restricted Band-edge : 1490N00-EMC-00039

FCC ID :	AZ489FT7187	IC :	109U-89FT7187
Model No :	HK2300A	Serial No :	64222BY0124
Battery :	PMNN4578A	Charger :	-
Accessory :	AN000508A01		
Test Mode :	BT - 8-DPSK	Channel SP/Bandwidth (kHz) :	1000.0000
Test Frequency (MHz) :	2480.0000	Softpot Power :	8.00
Plane :	Y-Plane	Band :	-
Test Standard :	ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024		

Antenna Polarization	Detector	Spur Freq (MHz)	Spur Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)
Vertical	Average	2483.5000	36.02	54.00	17.98
Horizontal	Average	2483.5000	35.10	54.00	18.90
Vertical	Peak	2483.5000	44.95 *	74.00	29.05
Horizontal	Peak	2483.5000	42.95 *	74.00	31.05
Horizontal	Peak	2483.6560	48.25 *	74.00	25.75
Vertical	Peak	2483.8210	51.85 *	74.00	22.15
Horizontal	Peak	2483.9700	49.66 *	74.00	24.34
Vertical	Peak	2484.3000	50.38 *	74.00	23.62
Horizontal	Peak	2484.3000	46.33 *	74.00	27.67
Horizontal	Peak	2487.1180	46.12 *	74.00	27.88
Horizontal	Peak	2487.5470	46.06 *	74.00	27.94
Horizontal	Peak	2488.5850	46.24 *	74.00	27.76
Horizontal	Peak	2489.9700	46.64 *	74.00	27.36
Horizontal	Peak	2491.2060	46.16 *	74.00	27.84
Vertical	Peak	2493.3330	45.99 *	74.00	28.01
Vertical	Peak	2493.5960	45.79 *	74.00	28.21
Vertical	Peak	2496.2000	45.97 *	74.00	28.03
Vertical	Peak	2496.5140	46.11 *	74.00	27.89
Horizontal	Peak	2496.8270	46.37 *	74.00	27.63
Vertical	Peak	2497.3050	46.56 *	74.00	27.44
Vertical	Peak	2497.5360	46.29 *	74.00	27.71
Vertical	Peak	2499.0360	45.76 *	74.00	28.24
Horizontal	Peak	2499.8760	44.97 *	74.00	29.03
Vertical	Peak	2499.9590	45.21 *	74.00	28.79

Temperature (°C) :	23.5	Humidity (%) :	68.9
Test Performed by :	Nazrin & Fuad	Test Date :	Sun, 22 Feb, 2026
System MU :	6.00 dB (30MHz-1000MHz); 5.14 dB (1000MHz-18000MHz); 5.36 dB (18000MHz-40000MHz)		

Remarks:

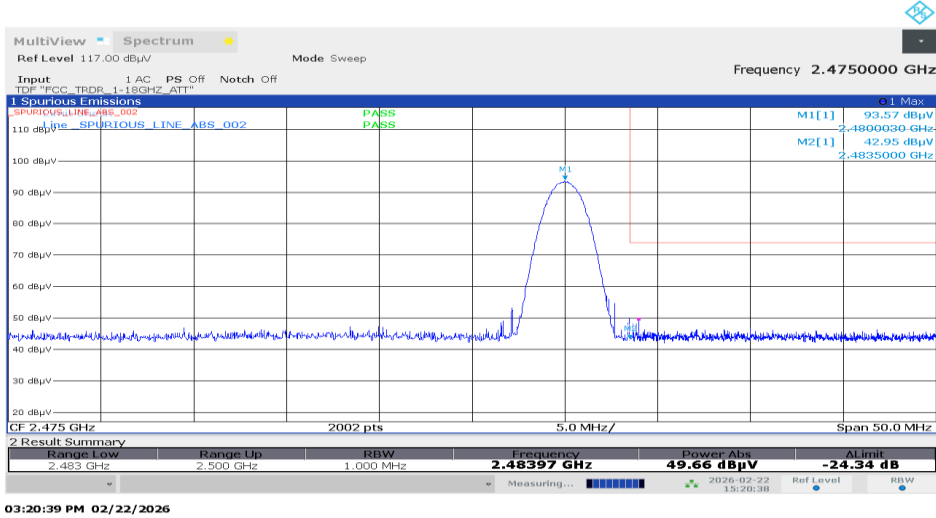
** Indicates the spurious emission could not be detected due to noise limitations or ambient.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported.

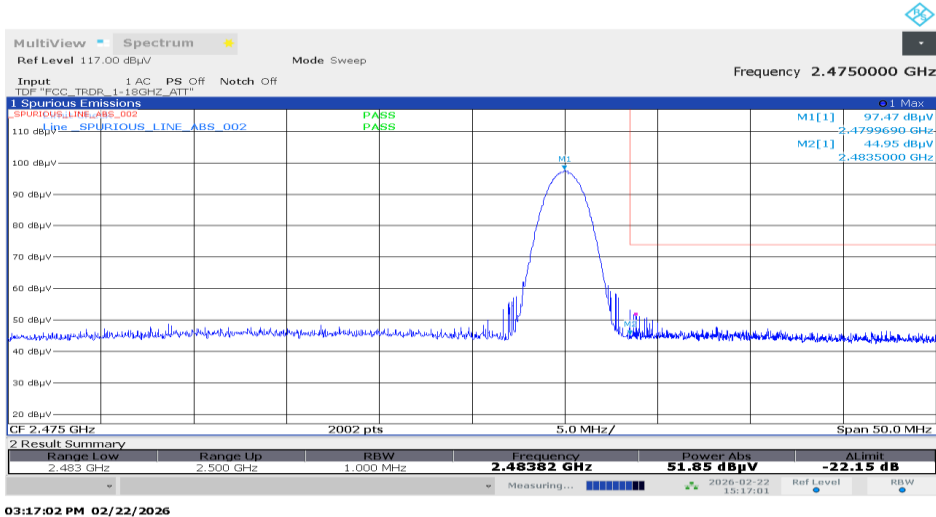
NOTE :

- 1) If the peak values is less than the QP limit, the QP result deemed to comply with QP limit.
- 2) If the peak values is less than the AV limit, the average result deemed to comply with AV limit.

Restricted Band Edge (Peak,Horizontal)



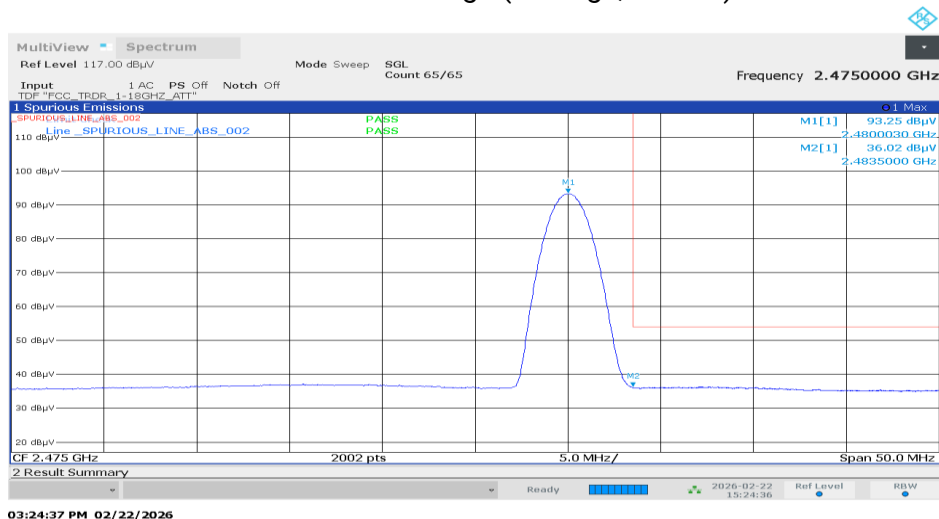
Restricted Band Edge (Peak,Vertical)



Restricted Band Edge (Average,Horizontal)



Restricted Band Edge (Average,Vertical)



SAC TX Radiated Emission : 1490N00-EMC-00039

FCC ID :	AZ489FT7187	IC :	109U-89FT7187
Model No :	HK2300A	Serial No :	64222BY0124
Battery :	PMNN4578A	Charger :	-
Accessory :	AN000508A01		
Test Mode :	BT - GFSK	Channel SP/Bandwidth (kHz) :	1000.0000
Test Frequency (MHz) :	2402.0000	Softpot Power :	8.00
Plane :	Y-Plane	Band :	-
Test Standard :	ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024		

Antenna Polarization	Detector	Spur Freq (MHz)	Spur Level (dBμV/m)	Carrier Power (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Vertical	Peak	4804.0000	39.67 **	-	74.00	34.33
Horizontal	Peak	4804.0000	39.04 **	-	74.00	34.96
Vertical	Peak	7206.0000	41.87 **	99.29	79.29	37.42
Horizontal	Peak	7206.0000	42.05 **	99.29	79.29	37.24
Vertical	Peak	9608.0000	42.72 **	99.29	79.29	36.57
Horizontal	Peak	9608.0000	42.63 **	99.29	79.29	36.66
Vertical	Peak	12010.0000	44.88 **	-	74.00	29.12
Horizontal	Peak	12010.0000	44.73 **	-	74.00	29.27
Vertical	Peak	14412.0000	48.93 **	99.29	79.29	30.36
Horizontal	Peak	14412.0000	48.93 **	99.29	79.29	30.35
Vertical	Peak	16814.0000	50.30 **	99.29	79.29	28.99
Horizontal	Peak	16814.0000	49.59 **	99.29	79.29	29.70
Vertical	Peak	19216.0000	40.16 **	-	74.00	33.84
Horizontal	Peak	19216.0000	40.50 **	-	74.00	33.50
Vertical	Peak	21618.0000	40.24 **	99.29	79.29	39.04
Horizontal	Peak	21618.0000	39.10 **	99.29	79.29	40.19
Vertical	Peak	24020.0000	39.56 **	99.29	79.29	39.73
Horizontal	Peak	24020.0000	41.28 **	99.29	79.29	38.01

Temperature (°C) :	23.5	Humidity (%) :	68.9
Test Performed by :	Nazrin & Fuad	Test Date :	Thu, 26 Feb, 2026
System MU :	6.00 dB (30MHz-1000MHz); 5.14 dB (1000MHz-18000MHz); 5.36 dB (18000MHz-40000MHz)		

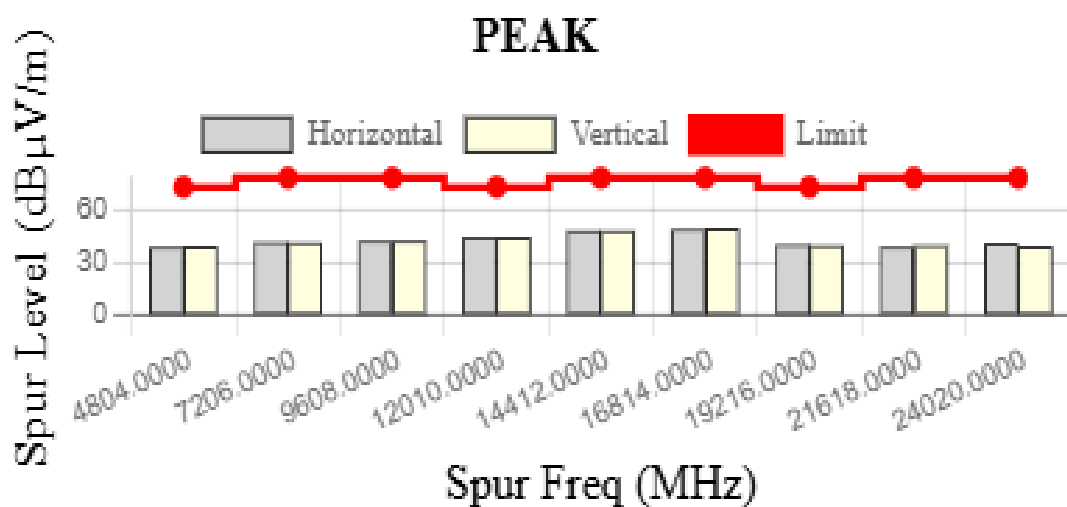
Remarks:

** Indicates the spurious emission could not be detected due to noise limitations or ambient.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported.

NOTE :

- 1) If the peak values is less than the QP limit, the QP result deemed to comply with QP limit.
- 2) If the peak values is less than the AV limit, the average result deemed to comply with AV limit.



Motorola Solutions

SAC TX Radiated Emission : 1490N00-EMC-00039

FCC ID :	AZ489FT7187	IC :	109U-89FT7187
Model No :	HK2300A	Serial No :	64222BY0124
Battery :	PMNN4578A	Charger :	-
Accessory :	AN000508A01		
Test Mode :	BT - GFSK	Channel SP/Bandwidth (kHz) :	1000.0000
Test Frequency (MHz) :	2441.0000	Softpot Power :	8.00
Plane :	Y-Plane	Band :	-
Test Standard :	ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024		

Antenna Polarization	Detector	Spur Freq (MHz)	Spur Level (dBμV/m)	Carrier Power (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Vertical	Peak	4882.0000	40.56 **	-	74.00	33.44
Horizontal	Peak	4882.0000	41.28 **	-	74.00	32.72
Vertical	Peak	7323.0000	42.43 **	-	74.00	31.57
Horizontal	Peak	7323.0000	42.76 **	-	74.00	31.24
Vertical	Peak	9764.0000	43.81 **	99.29	79.29	35.48
Horizontal	Peak	9764.0000	44.49 **	99.29	79.29	34.80
Vertical	Peak	12205.0000	45.02 **	-	74.00	28.98
Horizontal	Peak	12205.0000	46.59 **	-	74.00	27.41
Vertical	Peak	14646.0000	49.85 **	99.29	79.29	29.44
Horizontal	Peak	14646.0000	49.09 **	99.29	79.29	30.20
Vertical	Peak	17087.0000	49.67 **	99.29	79.29	29.62
Horizontal	Peak	17087.0000	52.38 **	99.29	79.29	26.91
Vertical	Peak	19528.0000	40.19 **	-	74.00	33.81
Horizontal	Peak	19528.0000	39.48 **	-	74.00	34.52
Vertical	Peak	21969.0000	39.87 **	99.29	79.29	39.42
Horizontal	Peak	21969.0000	41.48 **	99.29	79.29	37.81
Vertical	Peak	24410.0000	41.69 **	99.29	79.29	37.60
Horizontal	Peak	24410.0000	40.70 **	99.29	79.29	38.58

Temperature (°C) :	23.5	Humidity (%) :	68.9
Test Performed by :	Nazrin & Fuad	Test Date :	Thu, 26 Feb, 2026
System MU :	6.00 dB (30MHz-1000MHz); 5.14 dB (1000MHz-18000MHz); 5.36 dB (18000MHz-40000MHz)		

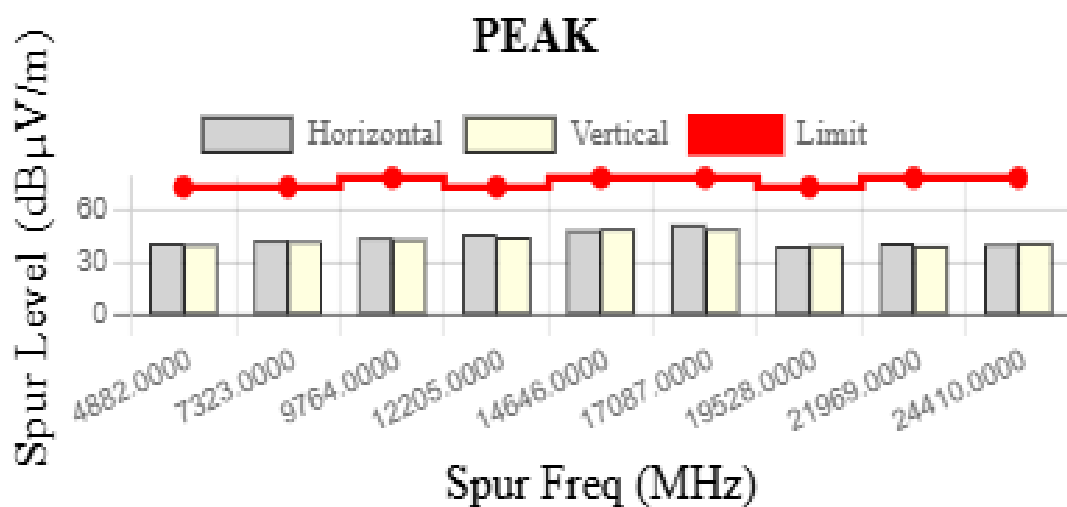
Remarks:

** Indicates the spurious emission could not be detected due to noise limitations or ambient.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported.

NOTE :

- 1) If the peak values is less than the QP limit, the QP result deemed to comply with QP limit.
- 2) If the peak values is less than the AV limit, the average result deemed to comply with AV limit.



Motorola Solutions

SAC TX Radiated Emission : 1490N00-EMC-00039

FCC ID :	AZ489FT7187	IC :	109U-89FT7187
Model No :	HK2300A	Serial No :	64222BY0124
Battery :	PMNN4578A	Charger :	-
Accessory :	AN000508A01		
Test Mode :	BT - GFSK	Channel SP/Bandwidth (kHz) :	1000.0000
Test Frequency (MHz) :	2480.0000	Softpot Power :	8.00
Plane :	Y-Plane	Band :	-
Test Standard :	ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024		

Antenna Polarization	Detector	Spur Freq (MHz)	Spur Level (dBμV/m)	Carrier Power (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Vertical	Peak	4960.0000	38.97 **	-	74.00	35.03
Horizontal	Peak	4960.0000	39.01 **	-	74.00	34.99
Vertical	Peak	7440.0000	42.58 **	-	74.00	31.42
Horizontal	Peak	7440.0000	43.93 **	-	74.00	30.07
Vertical	Peak	9920.0000	43.85 **	99.29	79.29	35.43
Horizontal	Peak	9920.0000	43.70 **	99.29	79.29	35.59
Vertical	Peak	12400.0000	46.19 **	-	74.00	27.81
Horizontal	Peak	12400.0000	46.27 **	-	74.00	27.73
Vertical	Peak	14880.0000	50.59 **	99.29	79.29	28.70
Horizontal	Peak	14880.0000	49.70 **	99.29	79.29	29.59
Vertical	Peak	17360.0000	51.39 **	99.29	79.29	27.90
Horizontal	Peak	17360.0000	51.06 **	99.29	79.29	28.23
Vertical	Peak	19840.0000	38.98 **	-	74.00	35.02
Horizontal	Peak	19840.0000	38.56 **	-	74.00	35.44
Vertical	Peak	22320.0000	41.54 **	-	74.00	32.46
Horizontal	Peak	22320.0000	40.80 **	-	74.00	33.20
Vertical	Peak	24800.0000	41.16 **	99.29	79.29	38.13
Horizontal	Peak	24800.0000	41.08 **	99.29	79.29	38.21

Temperature (°C) :	23.5	Humidity (%) :	68.9
Test Performed by :	Nazrin & Fuad	Test Date :	Thu, 26 Feb, 2026
System MU :	6.00 dB (30MHz-1000MHz); 5.14 dB (1000MHz-18000MHz); 5.36 dB (18000MHz-40000MHz)		

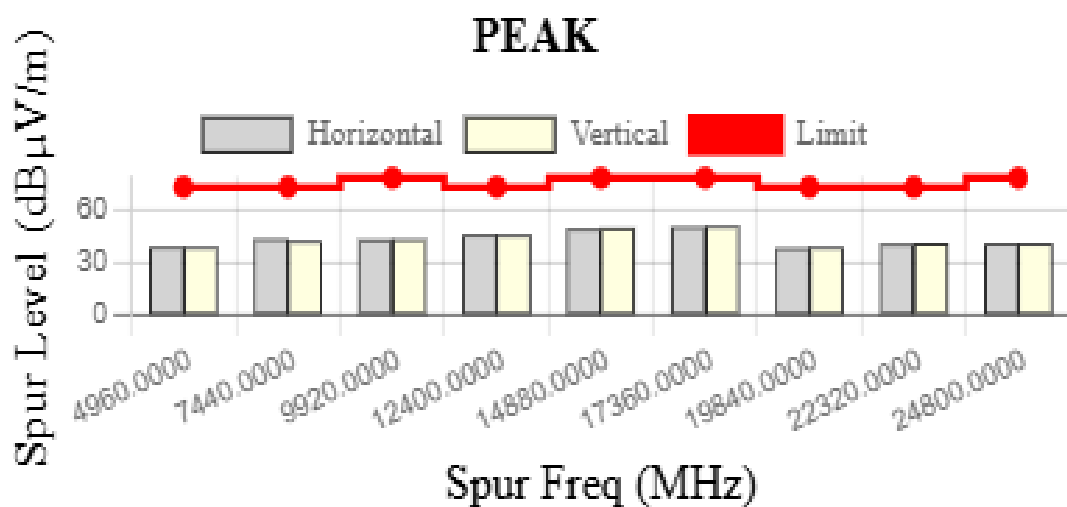
Remarks:

** Indicates the spurious emission could not be detected due to noise limitations or ambient.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported.

NOTE :

- 1) If the peak values is less than the QP limit, the QP result deemed to comply with QP limit.
- 2) If the peak values is less than the AV limit, the average result deemed to comply with AV limit.



SAC TX Radiated Emission : 1490N00-EMC-00039

FCC ID :	AZ489FT7187	IC :	109U-89FT7187
Model No :	HK2300A	Serial No :	64222BY0124
Battery :	PMNN4578A	Charger :	-
Accessory :	AN000508A01		
Test Mode :	BT - PI/4-DQPSK	Channel SP/Bandwidth (kHz) :	1000.0000
Test Frequency (MHz) :	2402.0000	Softpot Power :	8.00
Plane :	Y-Plane	Band :	-
Test Standard :	ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024		

Antenna Polarization	Detector	Spur Freq (MHz)	Spur Level (dBμV/m)	Carrier Power (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Vertical	Peak	4804.0000	39.64 **	-	74.00	34.36
Horizontal	Peak	4804.0000	39.75 **	-	74.00	34.25
Vertical	Peak	7206.0000	42.27 **	99.29	79.29	37.01
Horizontal	Peak	7206.0000	43.10 **	99.29	79.29	36.19
Vertical	Peak	9608.0000	44.03 **	99.29	79.29	35.26
Horizontal	Peak	9608.0000	44.49 **	99.29	79.29	34.80
Vertical	Peak	12010.0000	46.08 **	-	74.00	27.92
Horizontal	Peak	12010.0000	47.29 **	-	74.00	26.71
Vertical	Peak	14412.0000	48.30 **	99.29	79.29	30.98
Horizontal	Peak	14412.0000	49.57 **	99.29	79.29	29.72
Vertical	Peak	16814.0000	50.43 **	99.29	79.29	28.86
Horizontal	Peak	16814.0000	50.30 **	99.29	79.29	28.98
Vertical	Peak	19216.0000	39.73 **	-	74.00	34.27
Horizontal	Peak	19216.0000	40.18 **	-	74.00	33.82
Vertical	Peak	21618.0000	39.68 **	99.29	79.29	39.61
Horizontal	Peak	21618.0000	40.72 **	99.29	79.29	38.57
Vertical	Peak	24020.0000	40.58 **	99.29	79.29	38.71
Horizontal	Peak	24020.0000	40.38 **	99.29	79.29	38.91

Temperature (°C) :	23.5	Humidity (%) :	68.9
Test Performed by :	Nazrin & Fuad	Test Date :	Thu, 26 Feb, 2026
System MU :	6.00 dB (30MHz-1000MHz); 5.14 dB (1000MHz-18000MHz); 5.36 dB (18000MHz-40000MHz)		

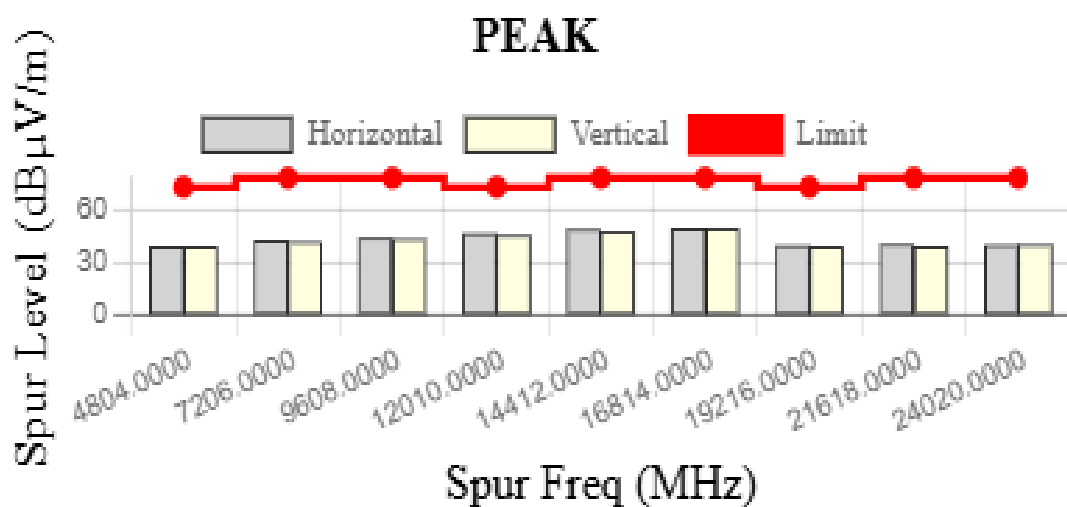
Remarks:

** Indicates the spurious emission could not be detected due to noise limitations or ambient.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported.

NOTE :

- 1) If the peak values is less than the QP limit, the QP result deemed to comply with QP limit.
- 2) If the peak values is less than the AV limit, the average result deemed to comply with AV limit.



Motorola Solutions

SAC TX Radiated Emission : 1490N00-EMC-00039

FCC ID :	AZ489FT7187	IC :	109U-89FT7187
Model No :	HK2300A	Serial No :	64222BY0124
Battery :	PMNN4578A	Charger :	-
Accessory :	AN000508A01		
Test Mode :	BT - PI/4-DQPSK	Channel SP/Bandwidth (kHz) :	1000.0000
Test Frequency (MHz) :	2441.0000	Softpot Power :	8.00
Plane :	Y-Plane	Band :	-
Test Standard :	ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024		

Antenna Polarization	Detector	Spur Freq (MHz)	Spur Level (dBμV/m)	Carrier Power (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Vertical	Peak	4882.0000	40.64 **	-	74.00	33.36
Horizontal	Peak	4882.0000	40.84 **	-	74.00	33.16
Vertical	Peak	7323.0000	43.27 **	-	74.00	30.73
Horizontal	Peak	7323.0000	43.31 **	-	74.00	30.69
Vertical	Peak	9764.0000	43.99 **	99.29	79.29	35.30
Horizontal	Peak	9764.0000	45.53 **	99.29	79.29	33.76
Vertical	Peak	12205.0000	44.86 **	-	74.00	29.14
Horizontal	Peak	12205.0000	46.16 **	-	74.00	27.84
Vertical	Peak	14646.0000	49.74 **	99.29	79.29	29.54
Horizontal	Peak	14646.0000	50.11 **	99.29	79.29	29.18
Vertical	Peak	17087.0000	51.67 **	99.29	79.29	27.62
Horizontal	Peak	17087.0000	50.67 **	99.29	79.29	28.61
Vertical	Peak	19528.0000	40.14 **	-	74.00	33.86
Horizontal	Peak	19528.0000	39.91 **	-	74.00	34.09
Vertical	Peak	21969.0000	40.44 **	99.29	79.29	38.85
Horizontal	Peak	21969.0000	39.45 **	99.29	79.29	39.84
Vertical	Peak	24410.0000	41.54 **	99.29	79.29	37.75
Horizontal	Peak	24410.0000	39.86 **	99.29	79.29	39.43

Temperature (°C) :	23.5	Humidity (%) :	68.9
Test Performed by :	Nazrin & Fuad	Test Date :	Thu, 26 Feb, 2026
System MU :	6.00 dB (30MHz-1000MHz); 5.14 dB (1000MHz-18000MHz); 5.36 dB (18000MHz-40000MHz)		

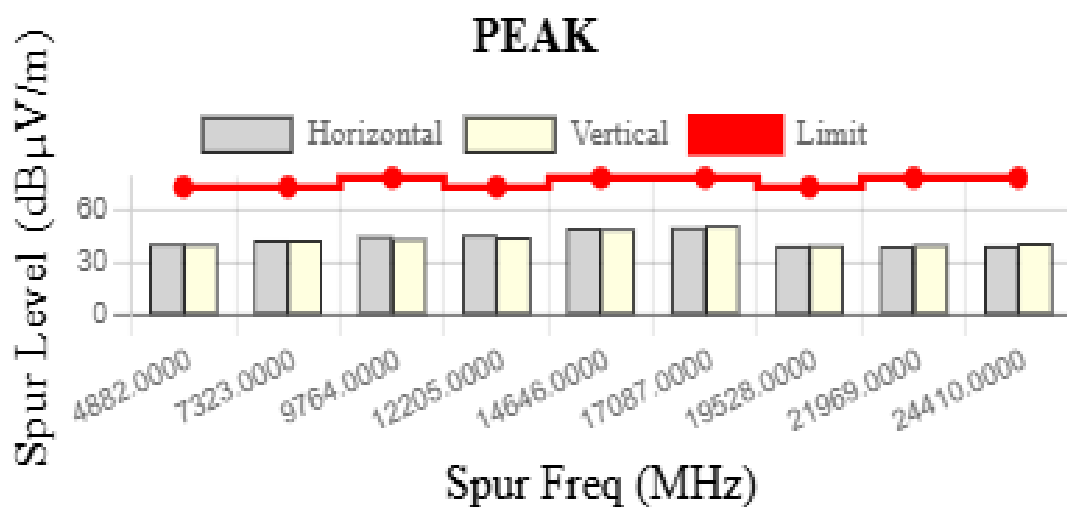
Remarks:

** Indicates the spurious emission could not be detected due to noise limitations or ambient.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported.

NOTE :

- 1) If the peak values is less than the QP limit, the QP result deemed to comply with QP limit.
- 2) If the peak values is less than the AV limit, the average result deemed to comply with AV limit.



Motorola Solutions

SAC TX Radiated Emission : 1490N00-EMC-00039

FCC ID :	AZ489FT7187	IC :	109U-89FT7187
Model No :	HK2300A	Serial No :	64222BY0124
Battery :	PMNN4578A	Charger :	-
Accessory :	AN000508A01		
Test Mode :	BT - PI/4-DQPSK	Channel SP/Bandwidth (kHz) :	1000.0000
Test Frequency (MHz) :	2480.0000	Softpot Power :	8.00
Plane :	Y-Plane	Band :	-
Test Standard :	ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024		

Antenna Polarization	Detector	Spur Freq (MHz)	Spur Level (dBμV/m)	Carrier Power (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Vertical	Peak	4960.0000	39.76 **	-	74.00	34.24
Horizontal	Peak	4960.0000	38.35 **	-	74.00	35.65
Vertical	Peak	7440.0000	42.95 **	-	74.00	31.05
Horizontal	Peak	7440.0000	43.27 **	-	74.00	30.73
Vertical	Peak	9920.0000	44.27 **	99.29	79.29	35.02
Horizontal	Peak	9920.0000	43.72 **	99.29	79.29	35.57
Vertical	Peak	12400.0000	45.69 **	-	74.00	28.31
Horizontal	Peak	12400.0000	45.72 **	-	74.00	28.28
Vertical	Peak	14880.0000	47.98 **	99.29	79.29	31.31
Horizontal	Peak	14880.0000	49.37 **	99.29	79.29	29.92
Vertical	Peak	17360.0000	51.84 **	99.29	79.29	27.45
Horizontal	Peak	17360.0000	51.31 **	99.29	79.29	27.98
Vertical	Peak	19840.0000	38.39 **	-	74.00	35.61
Horizontal	Peak	19840.0000	38.31 **	-	74.00	35.69
Vertical	Peak	22320.0000	41.45 **	-	74.00	32.55
Horizontal	Peak	22320.0000	40.70 **	-	74.00	33.30
Vertical	Peak	24800.0000	41.83 **	99.29	79.29	37.46
Horizontal	Peak	24800.0000	42.58 **	99.29	79.29	36.70

Temperature (°C) :	23.5	Humidity (%) :	68.9
Test Performed by :	Nazrin & Fuad	Test Date :	Thu, 26 Feb, 2026
System MU :	6.00 dB (30MHz-1000MHz); 5.14 dB (1000MHz-18000MHz); 5.36 dB (18000MHz-40000MHz)		

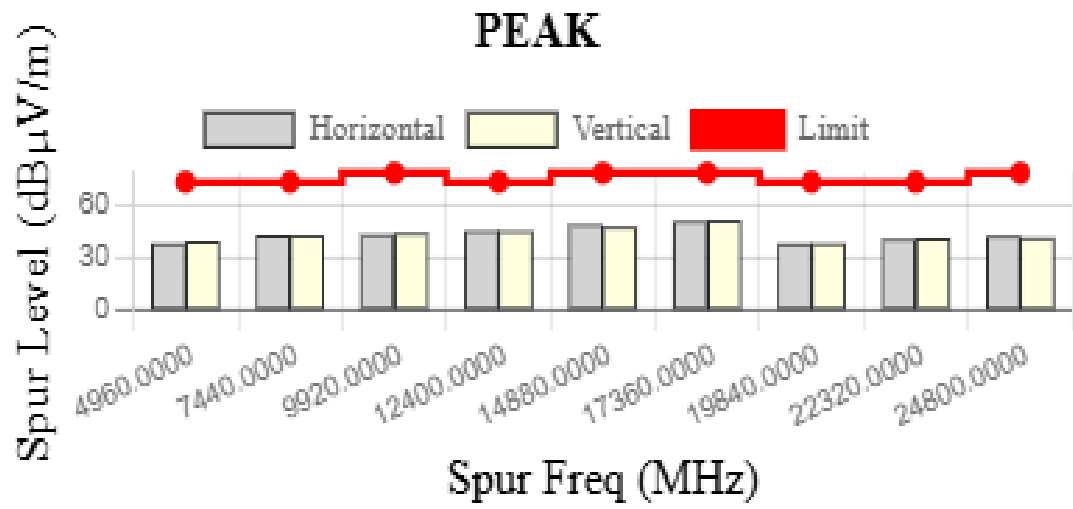
Remarks:

** Indicates the spurious emission could not be detected due to noise limitations or ambient.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported.

NOTE :

- 1) If the peak values is less than the QP limit, the QP result deemed to comply with QP limit.
- 2) If the peak values is less than the AV limit, the average result deemed to comply with AV limit.



SAC TX Radiated Emission : 1490N00-EMC-00039

FCC ID :	AZ489FT7187	IC :	109U-89FT7187
Model No :	HK2300A	Serial No :	64222BY0124
Battery :	PMNN4578A	Charger :	-
Accessory :	AN000508A01		
Test Mode :	BT - 8-DPSK	Channel SP/Bandwidth (kHz) :	1000.0000
Test Frequency (MHz) :	2402.0000	Softpot Power :	8.00
Plane :	Y-Plane	Band :	-
Test Standard :	ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024		

Antenna Polarization	Detector	Spur Freq (MHz)	Spur Level (dBμV/m)	Carrier Power (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Vertical	Peak	4804.0000	39.21 **	-	74.00	34.79
Horizontal	Peak	4804.0000	39.74 **	-	74.00	34.26
Vertical	Peak	7206.0000	42.28 **	99.29	79.29	37.01
Horizontal	Peak	7206.0000	42.40 **	99.29	79.29	36.89
Vertical	Peak	9608.0000	43.87 **	99.29	79.29	35.42
Horizontal	Peak	9608.0000	42.99 **	99.29	79.29	36.30
Vertical	Peak	12010.0000	45.69 **	-	74.00	28.31
Horizontal	Peak	12010.0000	46.43 **	-	74.00	27.57
Vertical	Peak	14412.0000	49.82 **	99.29	79.29	29.47
Horizontal	Peak	14412.0000	48.58 **	99.29	79.29	30.71
Vertical	Peak	16814.0000	49.87 **	99.29	79.29	29.42
Horizontal	Peak	16814.0000	51.00 **	99.29	79.29	28.29
Vertical	Peak	19216.0000	38.74 **	-	74.00	35.26
Horizontal	Peak	19216.0000	39.82 **	-	74.00	34.18
Vertical	Peak	21618.0000	40.30 **	99.29	79.29	38.99
Horizontal	Peak	21618.0000	41.02 **	99.29	79.29	38.27
Vertical	Peak	24020.0000	40.58 **	99.29	79.29	38.71
Horizontal	Peak	24020.0000	39.66 **	99.29	79.29	39.62

Temperature (°C) :	23.5	Humidity (%) :	68.9
Test Performed by :	Nazrin & Fuad	Test Date :	Thu, 26 Feb, 2026
System MU :	6.00 dB (30MHz-1000MHz); 5.14 dB (1000MHz-18000MHz); 5.36 dB (18000MHz-40000MHz)		

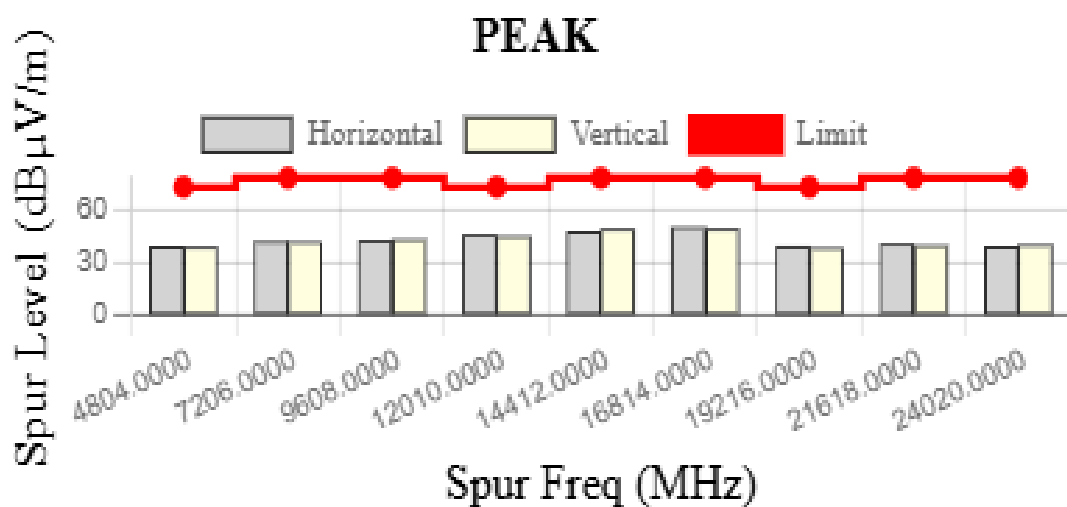
Remarks:

** Indicates the spurious emission could not be detected due to noise limitations or ambient.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported.

NOTE :

- 1) If the peak values is less than the QP limit, the QP result deemed to comply with QP limit.
- 2) If the peak values is less than the AV limit, the average result deemed to comply with AV limit.



Motorola Solutions

SAC TX Radiated Emission : 1490N00-EMC-00039

FCC ID :	AZ489FT7187	IC :	109U-89FT7187
Model No :	HK2300A	Serial No :	64222BY0124
Battery :	PMNN4578A	Charger :	-
Accessory :	AN000508A01		
Test Mode :	BT - 8-DPSK	Channel SP/Bandwidth (kHz) :	1000.0000
Test Frequency (MHz) :	2441.0000	Softpot Power :	8.00
Plane :	Y-Plane	Band :	-
Test Standard :	ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024		

Antenna Polarization	Detector	Spur Freq (MHz)	Spur Level (dBμV/m)	Carrier Power (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Vertical	Peak	4882.0000	41.62 **	-	74.00	32.38
Horizontal	Peak	4882.0000	39.08 **	-	74.00	34.92
Vertical	Peak	7323.0000	42.81 **	-	74.00	31.19
Horizontal	Peak	7323.0000	41.55 **	-	74.00	32.45
Vertical	Peak	9764.0000	44.68 **	99.29	79.29	34.61
Horizontal	Peak	9764.0000	43.06 **	99.29	79.29	36.23
Vertical	Peak	12205.0000	45.08 **	-	74.00	28.92
Horizontal	Peak	12205.0000	44.27 **	-	74.00	29.73
Vertical	Peak	14646.0000	51.09 **	99.29	79.29	28.19
Horizontal	Peak	14646.0000	49.46 **	99.29	79.29	29.83
Vertical	Peak	17087.0000	50.30 **	99.29	79.29	28.99
Horizontal	Peak	17087.0000	48.45 **	99.29	79.29	30.83
Vertical	Peak	19528.0000	39.29 **	-	74.00	34.71
Horizontal	Peak	19528.0000	40.47 **	-	74.00	33.53
Vertical	Peak	21969.0000	40.25 **	99.29	79.29	39.03
Horizontal	Peak	21969.0000	39.87 **	99.29	79.29	39.42
Vertical	Peak	24410.0000	41.26 **	99.29	79.29	38.02
Horizontal	Peak	24410.0000	41.09 **	99.29	79.29	38.20

Temperature (°C) :	23.5	Humidity (%) :	68.9
Test Performed by :	Nazrin & Fuad	Test Date :	Thu, 26 Feb, 2026
System MU :	6.00 dB (30MHz-1000MHz); 5.14 dB (1000MHz-18000MHz); 5.36 dB (18000MHz-40000MHz)		

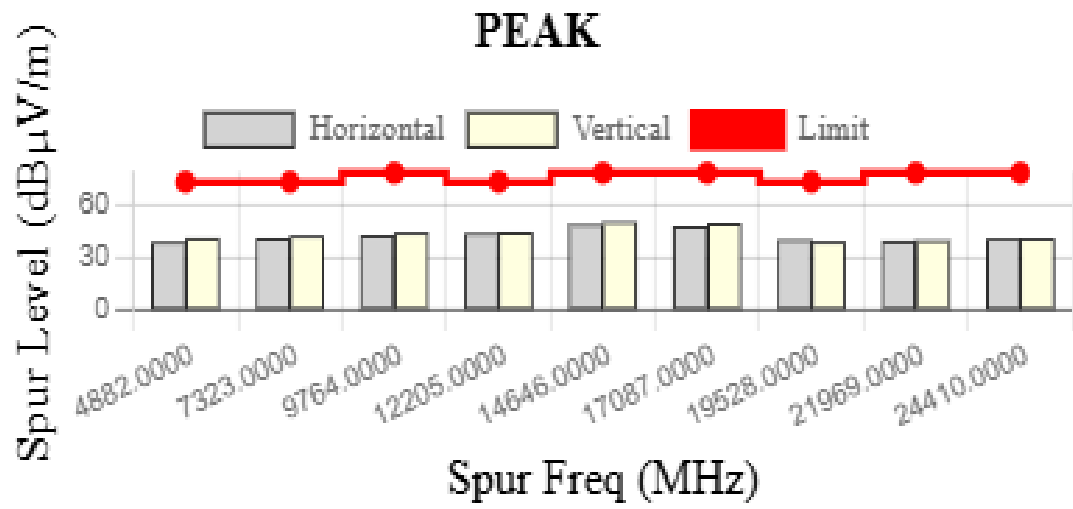
Remarks:

** Indicates the spurious emission could not be detected due to noise limitations or ambient.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported.

NOTE :

- 1) If the peak values is less than the QP limit, the QP result deemed to comply with QP limit.
- 2) If the peak values is less than the AV limit, the average result deemed to comply with AV limit.



Motorola Solutions

SAC TX Radiated Emission : 1490N00-EMC-00039

FCC ID :	AZ489FT7187	IC :	109U-89FT7187
Model No :	HK2300A	Serial No :	64222BY0124
Battery :	PMNN4578A	Charger :	-
Accessory :	AN000508A01		
Test Mode :	BT - 8-DPSK	Channel SP/Bandwidth (kHz) :	1000.0000
Test Frequency (MHz) :	2480.0000	Softpot Power :	8.00
Plane :	Y-Plane	Band :	-
Test Standard :	ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024		

Antenna Polarization	Detector	Spur Freq (MHz)	Spur Level (dBμV/m)	Carrier Power (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Vertical	Peak	4960.0000	39.49 **	-	74.00	34.51
Horizontal	Peak	4960.0000	38.91 **	-	74.00	35.09
Vertical	Peak	7440.0000	42.55 **	-	74.00	31.45
Horizontal	Peak	7440.0000	44.24 **	-	74.00	29.76
Vertical	Peak	9920.0000	43.34 **	99.29	79.29	35.95
Horizontal	Peak	9920.0000	43.92 **	99.29	79.29	35.36
Vertical	Peak	12400.0000	46.93 **	-	74.00	27.07
Horizontal	Peak	12400.0000	46.19 **	-	74.00	27.81
Vertical	Peak	14880.0000	49.49 **	99.29	79.29	29.80
Horizontal	Peak	14880.0000	48.55 **	99.29	79.29	30.74
Vertical	Peak	17360.0000	52.32 **	99.29	79.29	26.97
Horizontal	Peak	17360.0000	53.04 **	99.29	79.29	26.24
Vertical	Peak	19840.0000	39.60 **	-	74.00	34.40
Horizontal	Peak	19840.0000	38.88 **	-	74.00	35.12
Vertical	Peak	22320.0000	40.53 **	-	74.00	33.47
Horizontal	Peak	22320.0000	41.85 **	-	74.00	32.15
Vertical	Peak	24800.0000	42.26 **	99.29	79.29	37.03
Horizontal	Peak	24800.0000	41.97 **	99.29	79.29	37.31

Temperature (°C) :	23.5	Humidity (%) :	68.9
Test Performed by :	Nazrin & Fuad	Test Date :	Thu, 26 Feb, 2026
System MU :	6.00 dB (30MHz-1000MHz); 5.14 dB (1000MHz-18000MHz); 5.36 dB (18000MHz-40000MHz)		

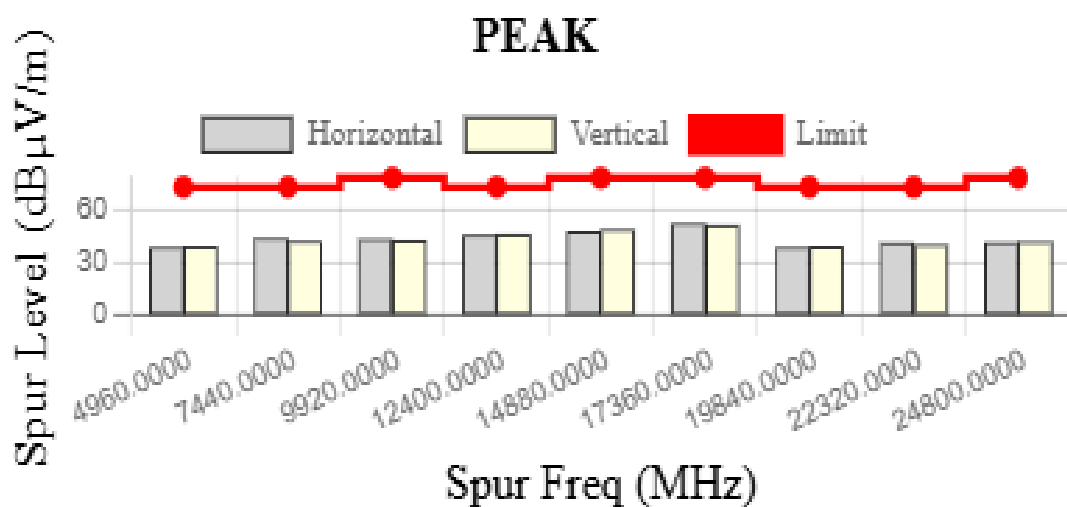
Remarks:

** Indicates the spurious emission could not be detected due to noise limitations or ambient.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported.

NOTE :

- 1) If the peak values is less than the QP limit, the QP result deemed to comply with QP limit.
- 2) If the peak values is less than the AV limit, the average result deemed to comply with AV limit.



SAC TX Radiated Emission : 1490N00-EMC-00046

FCC ID :	AZ489FT7187	IC :	109U-89FT7187
Model No :	HK2300A	Serial No :	64222BY0124, 64222BY0188, 64222BY0191
Battery :	PMNN4578A	Charger :	PMLN8569A (PMLN8567A-C2, 3004209T03)
Accessory :	AN000508A01		
Test Mode :	BT - 8-DPSK	Channel SP/Bandwidth (kHz) :	1000.0000
Test Frequency (MHz) :	2480.0000	Softpot Power :	8.00
Plane :	Y-Plane	Band :	-
Test Standard :	ANSI C63.10-2020+Cor. 1- 2023+C63.10a-2024 + Errata to C63.10a-2024	Voltage (V) :	120.00

Antenna Polarization	Detector	Spur Freq (MHz)	Spur Level (dBμV/m)	Carrier Power (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Horizontal	Peak	32.0909	27.98 *	99.29	79.29	51.30
Vertical	Peak	32.1848	31.71 *	99.29	79.29	47.57
Horizontal	Peak	55.7455	16.64 *	99.29	79.29	62.64
Vertical	Peak	56.1570	24.58 *	99.29	79.29	54.71
Horizontal	Quasi-Peak	111.1463	11.16 *	-	43.50	32.34
Vertical	Quasi-Peak	111.5459	12.25 *	-	43.50	31.25
Vertical	Quasi-Peak	163.2132	16.79 *	-	43.50	26.71
Horizontal	Quasi-Peak	163.2442	20.03 *	-	43.50	23.47
Vertical	Quasi-Peak	258.2507	17.90 *	-	46.00	28.10
Horizontal	Quasi-Peak	258.3466	20.95 *	-	46.00	25.05
Vertical	Peak	290.4732	22.17 *	99.29	79.29	57.11
Horizontal	Peak	290.5551	23.69 *	99.29	79.29	55.60
Horizontal	Peak	461.2937	24.25 *	99.29	79.29	55.04
Vertical	Peak	461.4685	23.87 *	99.29	79.29	55.41

Temperature (°C) :	23.4	Humidity (%) :	68.7
Test Performed by :	Nazrin & Fuad	Test Date :	Sun, 8 Mar, 2026
System MU :	6.00 dB (30MHz-1000MHz); 5.14 dB (1000MHz-18000MHz); 5.36 dB (18000MHz-40000MHz)		

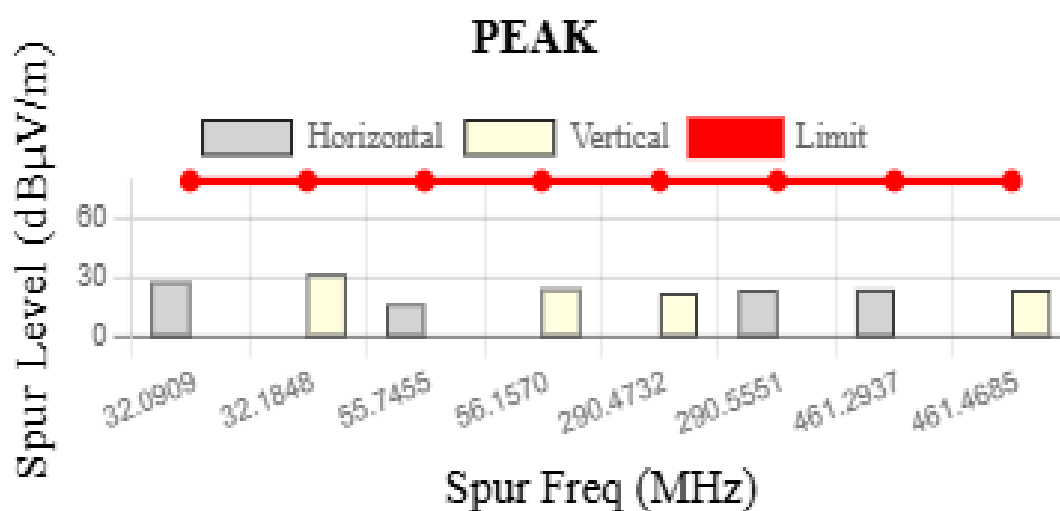
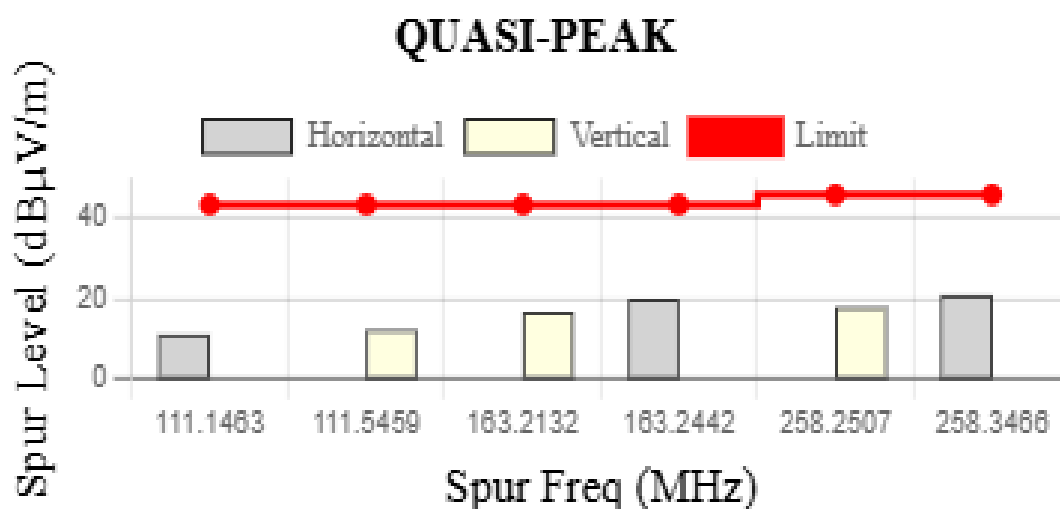
Remarks:

** Indicates the spurious emission could not be detected due to noise limitations or ambient.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported.

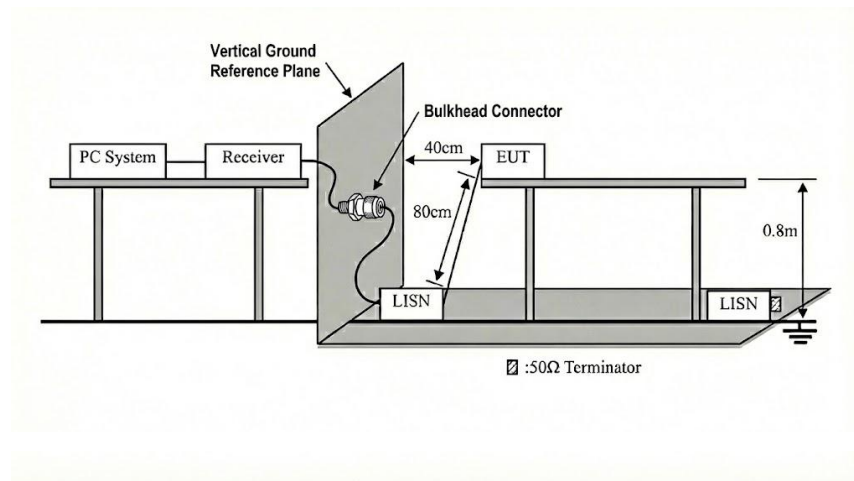
NOTE :

- 1) If the peak values is less than the QP limit, the QP result deemed to comply with QP limit.
- 2) If the peak values is less than the AV limit, the average result deemed to comply with AV limit.



6.9. AC Powerline Conducted Emission

6.9.1. Test Setup



- 1) Tests were conducted for both Receive and Transmit Mode of the EUT.
- 2) The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN) and connected to test receiver. All other EUT support units were connected to the power mains through another LISN terminated with 50 ohm loads.
- 3) Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- 4) The frequency range from 150 kHz to 30MHz was measured.

6.9.2. Test Limits:

For AC Power Line Conducted Test Limit can be Class A or B depends on product classification.

**Limits for conducted disturbance at the mains ports
of class A ITE**

Frequency range MHz	Limits dB(μV)	
	Quasi-peak	Average
0,15 to 0,50	79	66
0,50 to 30	73	60
NOTE The lower limit shall apply at the transition frequency.		

Table 1: Limits for Conducted Disturbance at the Mains Ports of Class A ITE.

**Limits for conducted disturbance at the mains ports
of class B ITE**

Frequency range MHz	Limits dB(μV)	
	Quasi-peak	Average
0,15 to 0,50	66 to 56	56 to 46
0,50 to 5	56	46
5 to 30	60	50
NOTE 1 The lower limit shall apply at the transition frequencies. NOTE 2 The limit decreases linearly with the logarithm of the frequency in the range 0,15 MHz to 0,50 MHz.		

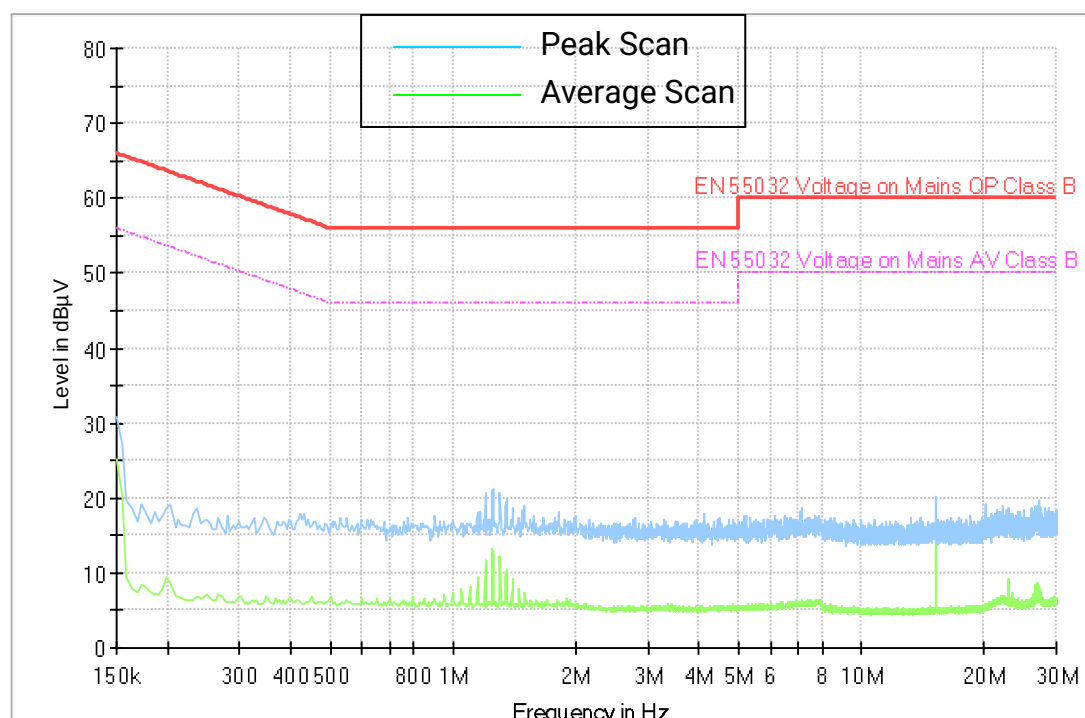
Table 2: Limits for Conducted Disturbance at the Mains Ports of Class B ITE

6.9.3. Test Result

120VAC, 60Hz

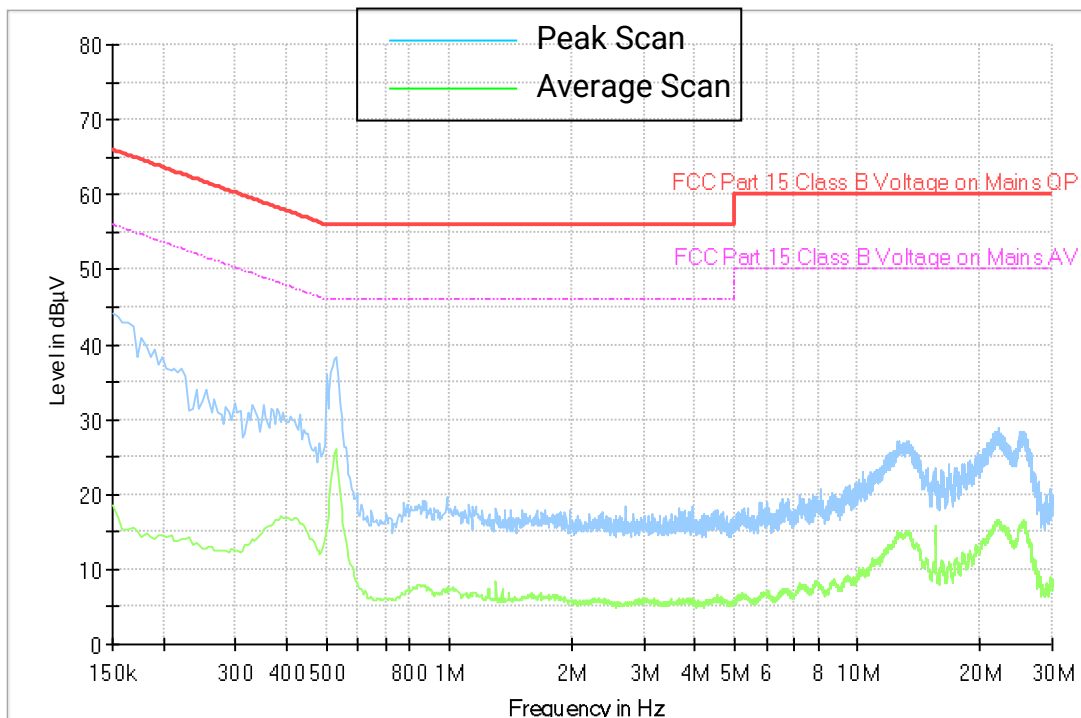
1) Ambient

Full Spectrum

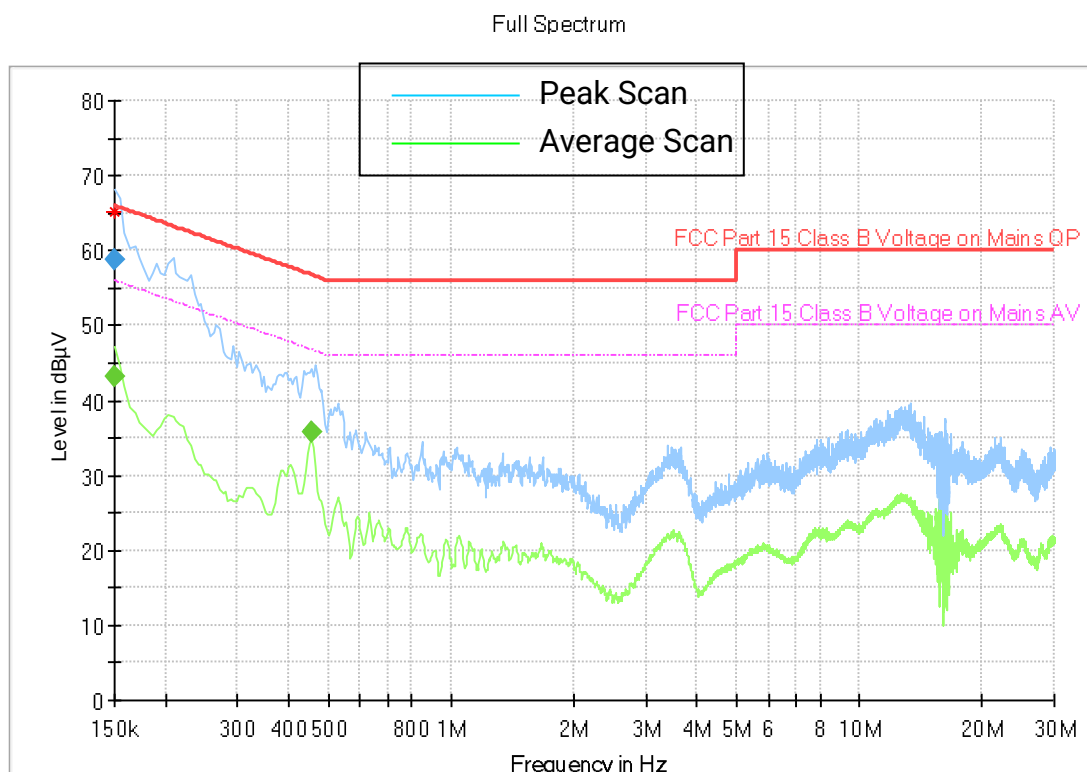


2) PSU Alone

Full Spectrum



3) Charger with Radio Standby

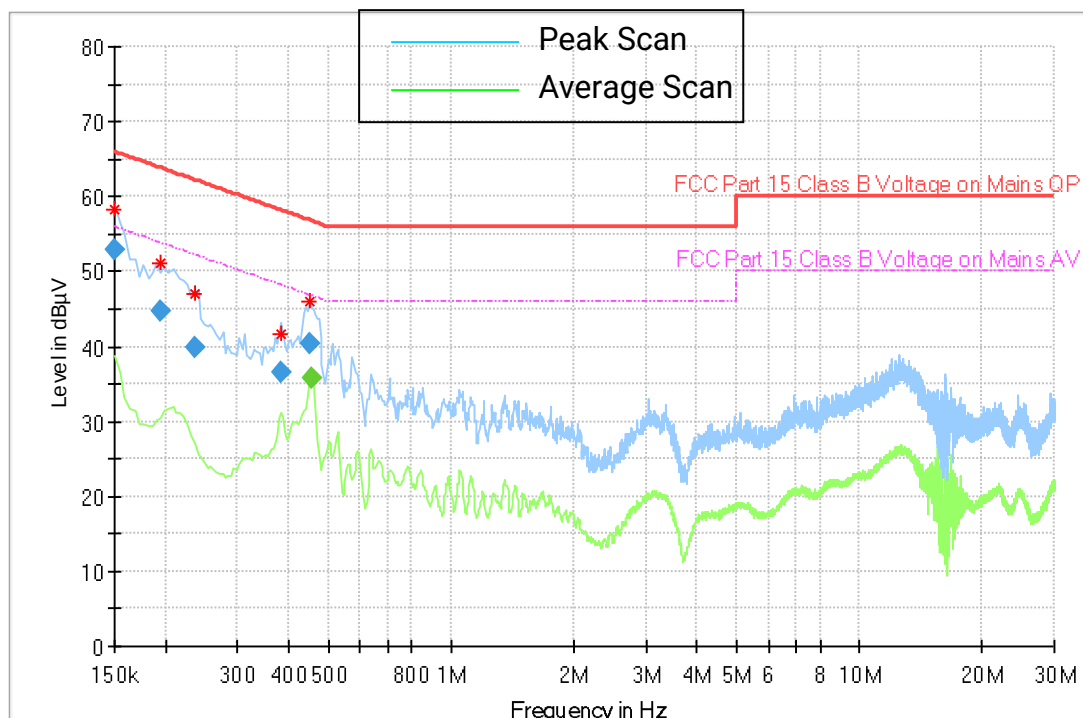


QuasiPeak and Average Measurement

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Line	Filter	Corr. (dB)
0.150000	---	43.14	56.00	12.86	L1	ON	10.5
0.150000	58.73	---	66.00	7.27	N	ON	10.5
0.456000	---	35.81	46.77	10.96	L1	ON	10.6

4) Charger with Radio TX BT 8DPSK

Full Spectrum



QuasiPeak and

Average Measurement

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Line	Filter	Corr. (dB)
0.150000	52.91	---	66.00	13.09	N	ON	10.5
0.195000	44.80	---	63.82	19.02	N	ON	10.5
0.235500	39.84	---	62.25	22.42	N	ON	10.3
0.384000	36.47	---	58.19	21.73	L1	ON	10.6
0.451500	40.40	---	56.85	16.45	L1	ON	10.6
0.456000	---	35.76	46.77	11.01	L1	ON	10.6

END OF TEST REPORT