

TEST REPORT

Application No.: SZCR2601000017AU

Applicant: Huizhou Desay SV Automotive Co., Ltd.

Address of Applicant: No.6, Huitai North Road, Huinan Technology Park, Huizhou, Guangdong, 516025 China

Manufacturer: Huizhou Desay SV Automotive Co., Ltd.

Address of Manufacturer: No.6, Huitai North Road, Huinan Technology Park, Huizhou City, Guangdong Province 516025, P.R. China

Factory: Huizhou Desay SV Automotive Co., Ltd.

Address of Factory: No.6, Huitai North Road, Huinan Technology Park, Huizhou City, Guangdong Province 516025, P.R. China

Equipment Under Test (EUT):

EUT Name: Front_Millimeter_Wave_Radar

Model No.: FRD03S-002, FRD03S-002-C2 ♣

♣ Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.

Trade Mark: DESAY SV

FCC ID: 2BUCQ-DSRDT003

Standard(s) : 47 CFR Part 2
47 CFR Part 95, Subpart M, 76GHz – 81 GHz

Date of Receipt: 2026-01-04

Date of Test: 2026-01-11 to 2026-02-10

Date of Issue: 2026-02-11

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.

Keny Xu

Keny Xu
EMC Laboratory Manager



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Inspection & Testing Laboratory

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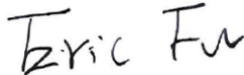
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SZEMC-TRF-01 Rev. A/2

Report No.: SZCR260100001701

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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2026-02-11		Original

Authorized for issue by:				
				
		Powell Bao/Project Engineer		
				
		Eric Fu/Reviewer		



2 Test Summary

Item	Test specification clause	Method	Result
Radiated Power	47 CFR Part 2.1046 47 CFR Part 2.1051 47 CFR Part 95.3367	ANSI C63.26 (2015) Section 5.2	Pass
Occupied Bandwidth	47 CFR Part 2.1049	ANSI C63.26 (2015) Section 5.4	Pass
Modulation characteristics	47 CFR Part 2.1047	ANSI C63.26 (2015) Section 5.3	Pass
Unwanted Radiated Emissions	47 CFR Part 95.3379 47 CFR Part 2.1053	ANSI C63.26 (2015) Section 5.5	Pass
Frequency Stability	47 CFR Part 95.3379 47 CFR Part 2.1055	ANSI C63.26 (2015) Section 5.6	Pass

Declaration of EUT Family Grouping:

Model No.: FRD03S-002, FRD03S-002-C2

Only the model FRD03S-002 was tested, since according to the declaration from the applicant, the electronic circuit design, PCB layout, and electronic components are identical for all the above models, with only difference on external shape of the board-side connector.



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4 General Information

4.1 Details of E.U.T.

Power supply:	DC 9-16V
Test voltage:	DC 12V
Frequency band:	76GHz – 77GHz
Type of modulation:	FMCW: Sawtooth Wave
Antenna Type:	Integral Antenna
Antenna Gain:	15dBi (Provided by the manufacturer)

Remark: The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
DC power supply	ZHAOXIN	PS-3005D	REF. No.SEA27B01

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Transmitter power	$\pm 4.8\text{dB}$
Occupied bandwidth	$\pm 3\%$
Radiated Spurious Emissions Below 1GHz	$\pm 6.0\text{dB}$ for 3m; $\pm 5.0\text{dB}$ for 10m
Radiated Spurious Emissions Above 1GHz	$\pm 4.6\text{dB}$ (1-18GHz); $\pm 4.8\text{dB}$ (Above 18GHz)

Remark:

The U_{lab} (lab Uncertainty) is less than $U_{\text{CISPR/ETSI}}$ (CISPR/ETSI Uncertainty), so the test results
– compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
– non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.

4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

4.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

• A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

• VCCI (Member No. 1937)

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen EMC laboratory have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

• FCC –Designation Number: CN1336

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1336. Test Firm Registration Number: 787754.

• Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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5 Equipment List

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2025-11-17	2027-11-16
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2023-06-19	2026-06-18
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2025-07-25	2026-07-24
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-01	2025-08-29	2027-08-28
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2025-03-04	2026-03-03
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2025-07-05	2026-07-04
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2024-05-11	2027-05-10
EXA Signal Analyzer(10Hz-44GHz)	Keysight	N9010A	SEM004-20	2025-03-29	2026-03-28
Horn Antenna(800MHz-18GHz)	Rohde&Schwarz	HF907	SEM003-07	2025-07-23	2027-07-21
Microwave system amplifier (0.5GHz-26.5GHz)	Agilent	83017A	SEM005-25	2025-09-10	2026-09-09
Broad-Band Horn Antenna(15GHz-40GHz)	SCHWARZBECK	BBHA 9170	SEM003-15	2025-07-22	2027-07-21
Programmable Temperature Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2025-02-26	2026-02-25
Pre-amplifier (26GHz-40GHz)	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2025-03-21	2026-03-20
Coaxial Cable	SGS	N/A	SEM026-01	2025-07-05	2026-07-04
Waveguide(40-60GHz)	REBES	SWG-19025-F B	06303-01	2025-02-18	2028-02-17
Waveguide(50-75GHz)	REBES	SWG-15025-F B	01525-09	2025-02-18	2028-02-17
Waveguide(75-110GHz)	REBES	SWG-10025-F B	01509-01	2025-02-18	2028-02-17
Waveguide Harmonic Mixer(40-60GHz)	REBES	STH-19SF-S1	06937-01	2025-02-18	2028-02-17

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Waveguide Harmonic Mixer(50-75GHz)	KEYSIGHT	M1970V	MY51390966	2025-02-18	2028-02-17
Waveguide Harmonic Mixer(75-110GHz)	KEYSIGHT	M1970W	MY51430883	2025-02-18	2028-02-17
Waveguide Harmonic Mixer(90-140GHz)	VDI	SAX WR8.0	KSEM007-3	2023-08-23	2033-08-23
Harmonic mixer(140-220GHz)	VDI	SAX WR5.1	KSEM007-4	2023-08-23	2033-08-23
Harmonic mixer(220-325GHz)	ERAVANT	HM 220-325	KSEM005-4	2023-08-23	2033-08-23
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2025-03-04	2026-03-03
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2025-05-07	2028-05-06
EMI Test Receiver	Rohde&Schwarz	ESR	SZ-WRG-M-04 7	2025-01-08	2026-01-07
Measurement Software	AUDIX	e3 V8.2014-6-27a	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM024-01	2025-07-05	2026-07-04
LISN	Rohde&Schwarz	ENV216	SEM007-01	2025-07-25	2026-07-24
LISN	ETS-LINDGREN	3816/2	SEM007-02	2025-03-03	2026-03-02

General used equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	deli	8838	SEM002-32	2025-07-23	2026-07-22
Humidity/ Temperature Indicator	deli	8838	SEM002-33	2025-07-23	2026-07-22
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2025-03-03	2026-03-02

6 Radio Spectrum Matter Test Results

6.1 Modulation characteristics

6.1.1 Test Requirement:

47 CFR Part 2.1047

6.1.2 Conclusion

EUT complies with 47 CFR Part 2.1047 requirement.

Comments from manufacturer on modulation characteristics according to KDB:

Parameter	
Duty Cycle %:	0.21
Time RF on(ms):	13.824
Time RF off (ms):	52.176
Power:	Constant During RF on
Steepness of Ramps(GHz/s):	7005
Calibration:	Yes
Antenna Beam Steering(TX):	All 4 transmitters enabled (transmitting simultaneously)
Characteristics	
Sweep Bandwidth(GHz):	0.15000233 (bandwidth of a chirp) 0.75000233 (bandwidth of a frame)
Sweep Rate(KHz):	NA
Sweep Time(us):	36



6.2 Radiated Power

Test Requirement: 47 CFR Part 2.1046
47 CFR Part 2.1051
47 CFR Part 95.3367

Test Method: ANSI C63.26 (2015) Section 5.2

Limit:

Peak EIRP <55dBm/MHz
Average EIRP <50dBm/MHz

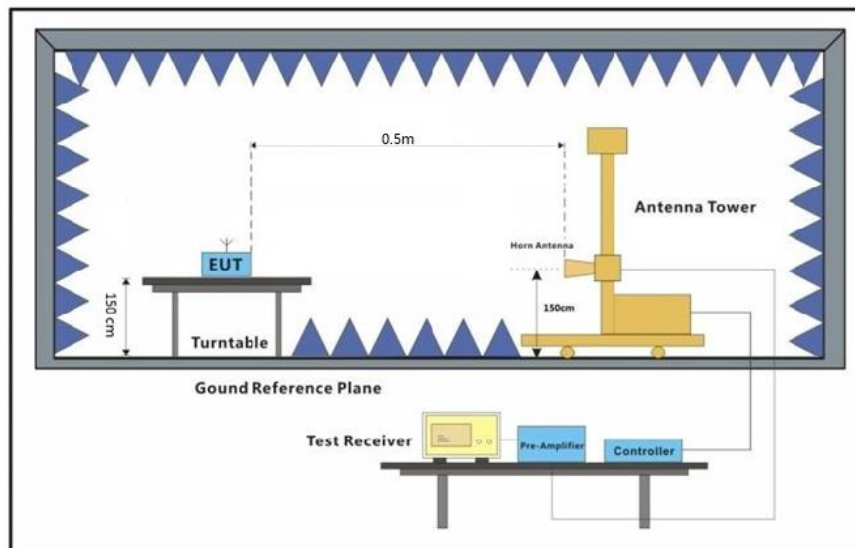
6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 23.8 °C Humidity: 51.2 % RH Atmospheric Pressure: 1020 mbar

Test mode a:TX mode_Make EUT continuously emit radar signals

6.2.2 Test Setup Diagram



6.2.3 Conclusion

EUT complies with 47 CFR Part 2.1046;47 CFR Part 2.1051;47 CFR Part 95.3367 requirement

6.2.4 Measurement Data

Frequency (GHz)	Distance (m)	Polarity	dBuV/m @ 0.5m	E.I.R.P. Power (dBm)	Final E.I.R.P. Power (dBm)	E.I.R.P. Limit (dBm)	Result	Remark
76-77	0.5	Horizontal	94.141	28.554	30.534	55.0	Pass	Peak
	0.5	Vertical	70.368	4.777	6.757	55.0	Pass	Peak
	0.5	Horizontal	70.223	4.636	6.616	50.0	Pass	Average
	0.5	Vertical	46.256	-19.335	-17.355	50.0	Pass	Average

Remark:

$E[\text{dB}\mu\text{V/m}] = \text{EIRP}[\text{dBm}] - 20 \log(d[\text{meters}]) + 104.77 + \text{factor}$, where E = field strength and d = distance at which field strength limit is specified in the rules

$\text{EIRP}[\text{dBm}] = E[\text{dB}\mu\text{V/m}] + 20 \log(d[\text{meters}]) - 104.77 + \text{factor}$

$d=0.5\text{m}$; factor=antenna factor + mixer factor + cable loss =45.2dB

Final EIRP[dBm]=Measured EIRP[dBm]+ Desensitization Factor[dB]

The FMCW Desensitization factor

FMCW Width(MHz)	$T_{\text{chirp}}(\mu\text{s})$	RBW(MHz)	Desensitization Factor(lin)	Desensitization Factor(dB)
782.50	700	1	0.6332	1.98

FMCW desensitization factor $= -10 \cdot \log(\alpha) = -10 \cdot \log(0.6332) = 1.98\text{dB}$

$$\alpha = \frac{1}{\sqrt{1 + \left(\frac{2 \ln(2)}{\pi} \right)^2 \left(\frac{BW_{\text{Chirp}}}{T_{\text{Chirp}} B^2} \right)^2}}$$

where

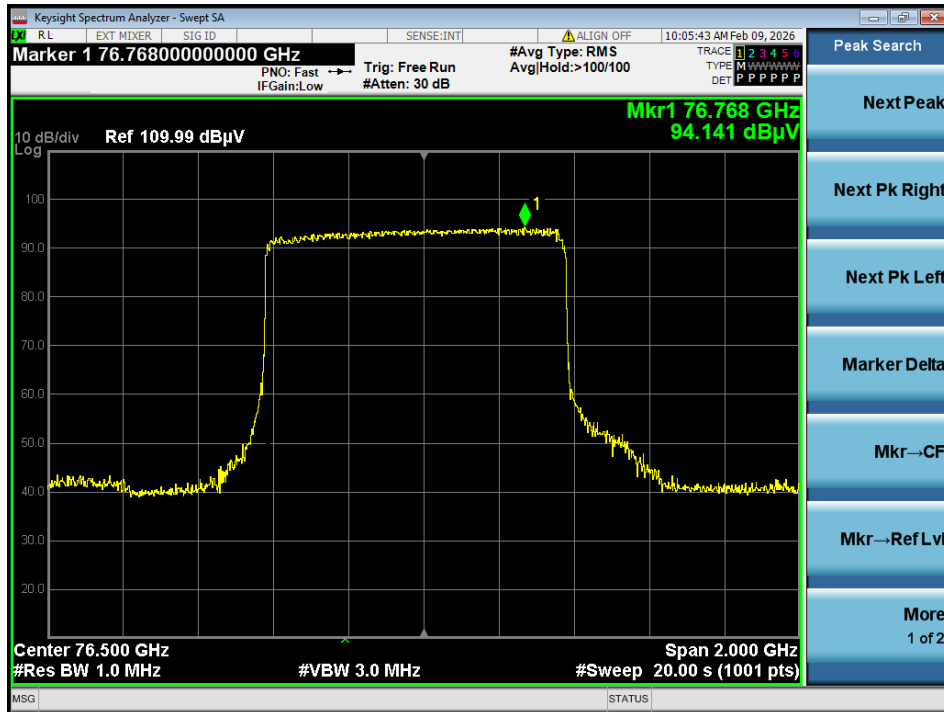
α is the reduction in amplitude

F_s is the FMCW Chirp Bandwidth

T_s is the FMCW Chirp Time

B is the 3 dB IF Bandwidth = RBW

Peak EIRP: Horizontal



Peak EIRP: Vertical



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6.3 Occupied Bandwidth

Test Requirement: 47 CFR Part 2.1049
 Test Method: ANSI C63.26 (2015)Section 5.4
 Limit: $\geq 76\text{GHz}, \leq 81\text{GHz}$

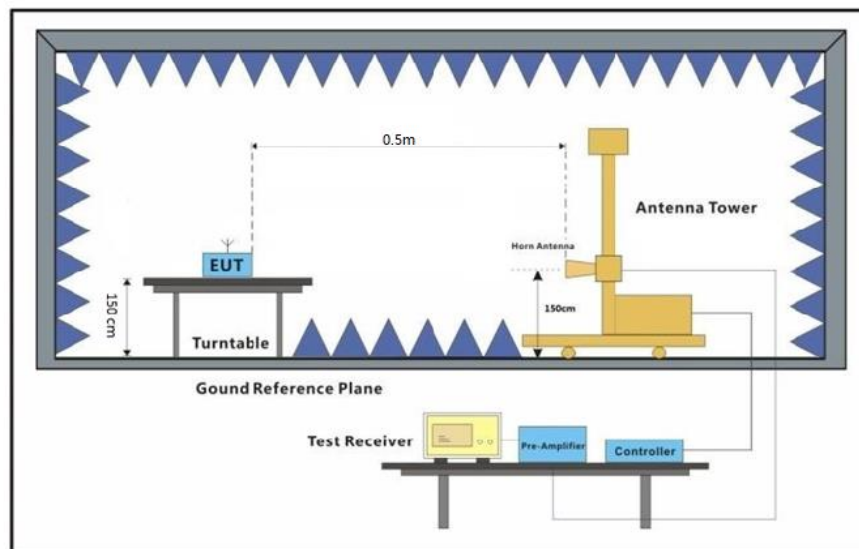
6.3.1 E.U.T. Operation

Operating Environment:

Temperature: 23.8 °C Humidity: 51.2 % RH Atmospheric Pressure: 1020 mbar

Test mode a:TX mode_Make EUT continuously emit radar signals

6.3.2 Test Setup Diagram



6.3.3 Conclusion

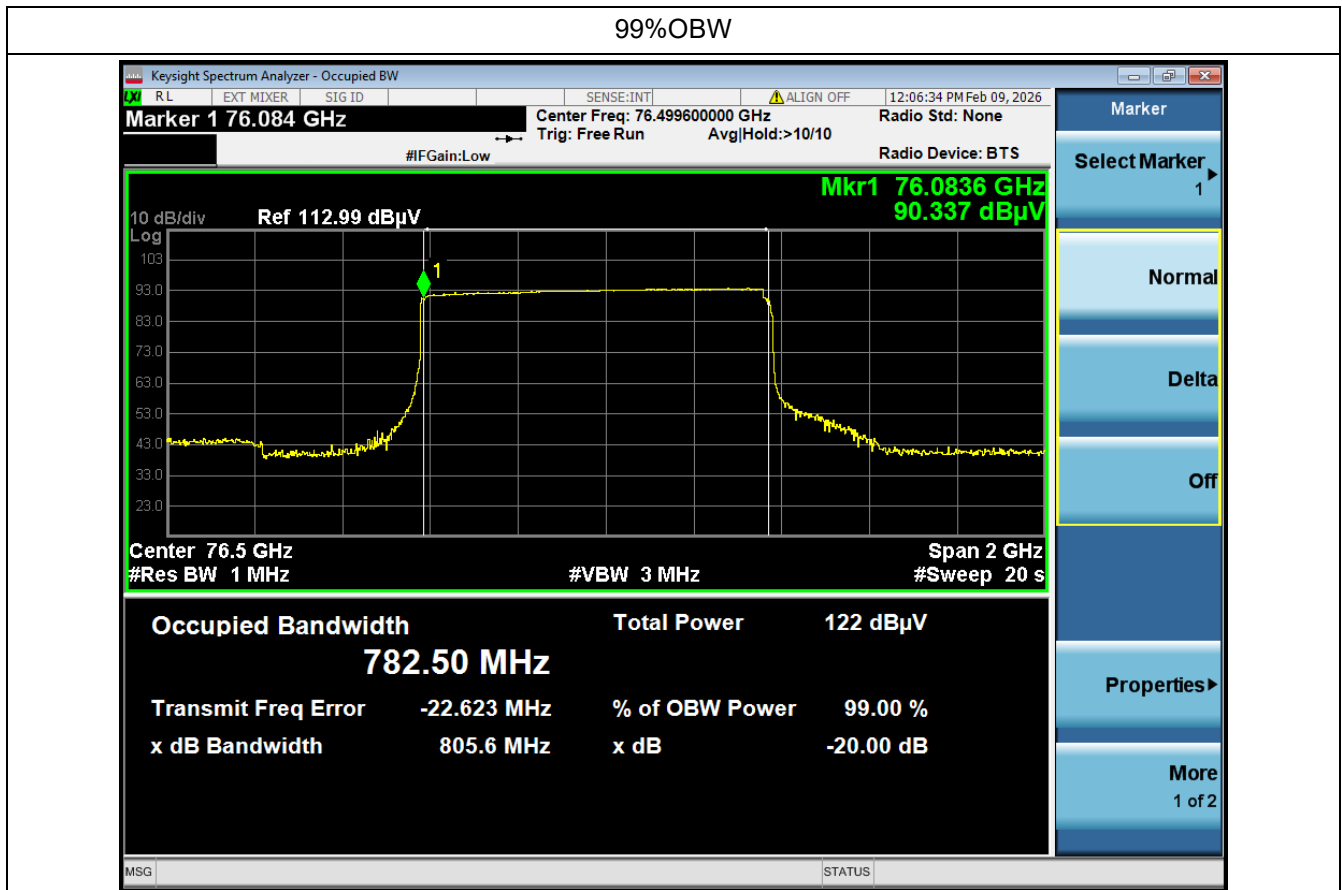
EUT complies with 47 CFR Part 2.1049 requirement

6.3.4 Measurement Data

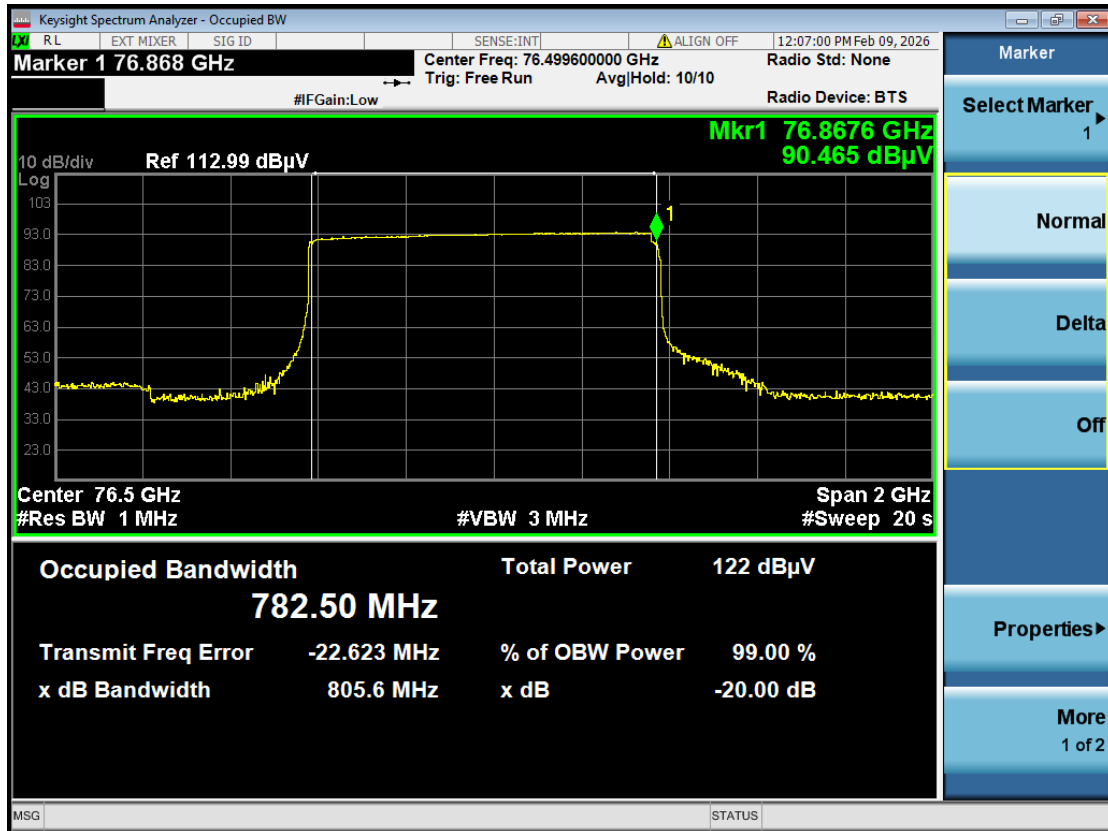
76-77GHz

99% Bandwidth (GHz)	Lowest Frequency (GHz)	Highest Frequency (GHz)	Limit	Result
0.7825	76.0836	76.8676	76-81GHz	Pass

99%OBW



99%OBW



6.4 Unwanted Emissions

Test Requirement: 47 CFR Part 95.3379
47 CFR Part 2.1053
Test Method: ANSI C63.26 (2015) Section 5.5
Limit:

The power density of any emissions outside the 76-81 GHz band shall consist solely of spurious emissions and shall not exceed the following:

FCC Limit:

(1) Radiated emissions below 40 GHz shall not exceed the field strength as shown in the following emissions table.

Frequency (MHz)	Field Strength (uV/m)	Measurement Distance (m)
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

(i) The tighter limit applies at the band edges.

(ii) The limits in the table are based on the frequency of the unwanted emissions and not the fundamental frequency. However, the level of any unwanted emissions shall not exceed the level of the fundamental frequency.

(iii) The emissions limits shown in the table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9.0-90.0 kHz, 110.0-490.0 kHz, and above 1000 MHz. Radiated emissions limits in these three bands are based on measurements employing an average detector with a 1 MHz RBW.

(2) The power density of radiated emissions outside the 76-81 GHz band above 40.0 GHz shall not exceed the following, based on measurements employing an average detector with a 1 MHz

(i) For radiated emissions between 40 GHz and 200 GHz: 600 pW/cm² at a distance of 3 meters from the exterior surface of the radiating structure.

(ii) For radiated emissions above 200 GHz: 1000 pW/cm² at a distance of 3 meters from the exterior surface of the radiating structure.

(3) For field disturbance sensors and radar systems operating in the 76-81 GHz band, the spectrum shall be investigated up to 231.0 GHz



Frequency (GHz)	Power density at 3 m distance (pW/cm ²)	Distance (m)	Field strength (dBuV/m)*, peak	Field strength (dBuV/m)*, average
40 - 200	600	3.0	113.54	93.54
40 - 200	600	0.5	129.10**	109.10**
200-231	1000	3.0	115.76	95.76
200-231	1000	0.5	131.32**	111.32**

* - Field strength was calculated per equation (26) of ANSI C63.10a-2024 section 9 as follows: $E = \sqrt{PD \times 377}$, where PD is the power density at the distance specified by the limit in W/m², E- field strength in V/m.

** - The limit for other test distance was calculated using the inverse distance extrapolation factor as follows: $LimS2 = LimS1 + 20 \log (S1/S2)$, where S1 and S2 - standard defined and test distance respectively in meters.

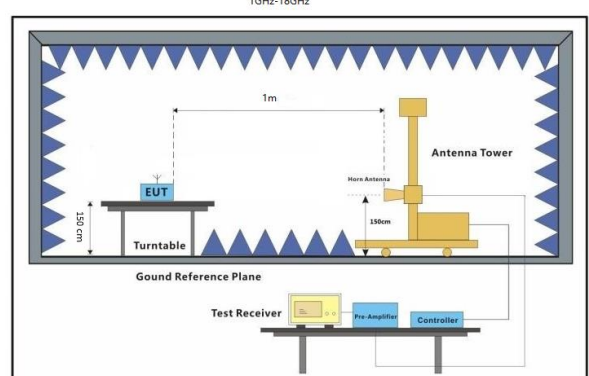
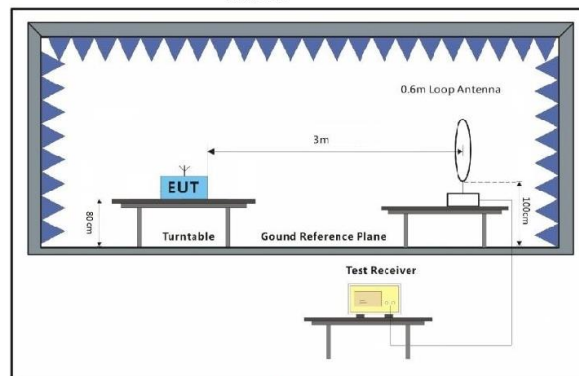
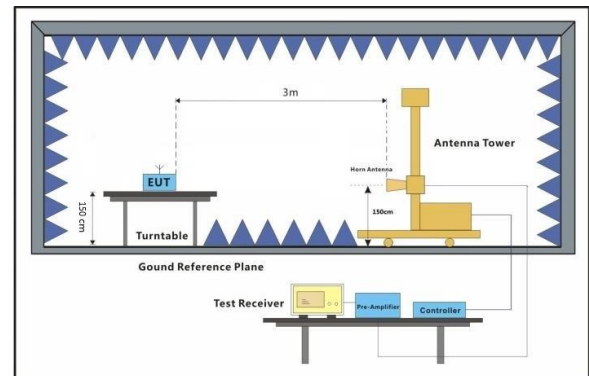
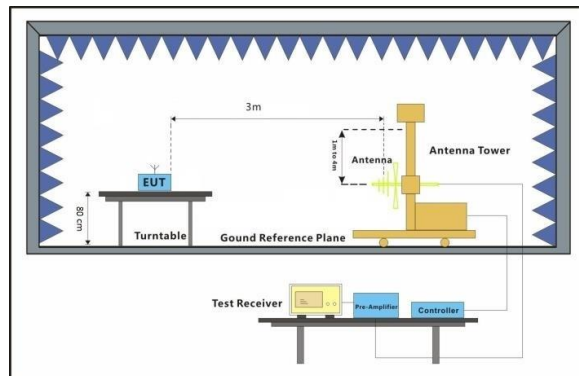
6.4.1 E.U.T. Operation

Operating Environment:

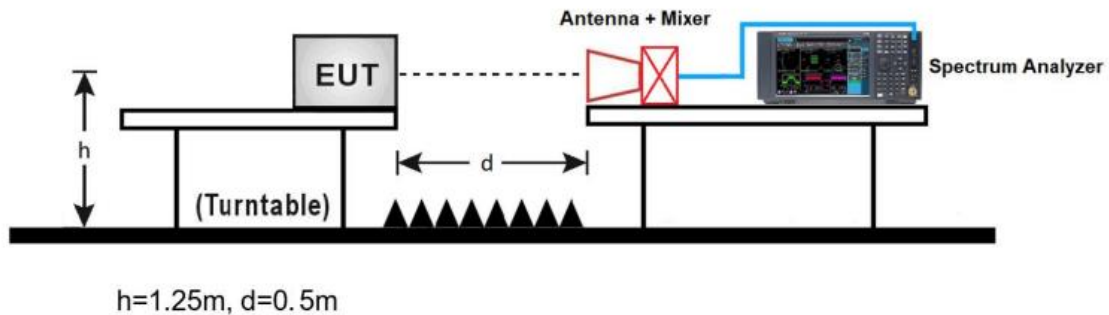
Temperature: 23.8 °C Humidity: 51.2 % RH Atmospheric Pressure: 1020 mbar

Test mode a:TX mode_Make EUT continuously emit radar signals

6.4.2 Test Setup Diagram



Above 40GHz



6.4.3 Conclusion

EUT complies with 47 CFR Part 95.3379;47 CFR Part 2.1053 requirement

6.4.4 Measurement Data

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Average measurements were conducted based on the peak sweep graph. The EUT was measured by Horn antenna with 2 orthogonal polarities.

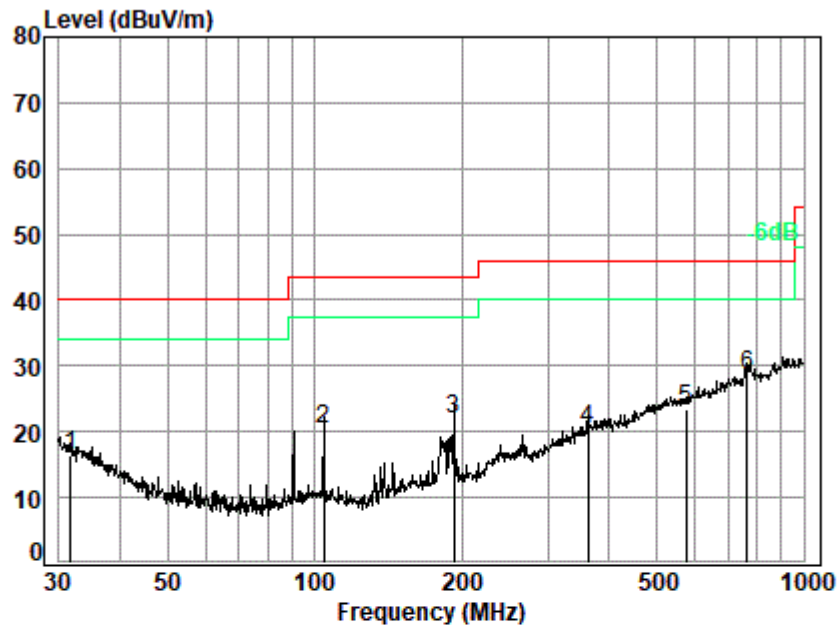
Note:

1.The amplitude of radiated emissions (frequency range from 9KHz to 30MHz) is that proximity to ambient noise, which also are attenuated more than 20 dB below the permissible value. Therefore, the data is not Presented in the report.

2.For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.



Below 1GHz- Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No. : 00015AU

Test Mode: RSE TX

	Ant Freq	Cable Factor	Preamp Loss	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1	31.620	20.45	0.69	27.79	22.96	16.31	40.00	-23.69 QP
2	104.170	12.22	1.25	27.57	34.39	20.29	43.50	-23.21 QP
3	192.419	14.23	1.73	27.20	33.26	22.02	43.50	-21.48 QP
4	361.714	20.25	2.45	27.00	24.81	20.51	46.00	-25.49 QP
5	574.626	23.80	3.16	27.87	24.18	23.27	46.00	-22.73 QP
6 q	766.057	26.59	3.76	27.56	25.69	28.48	46.00	-17.52 QP



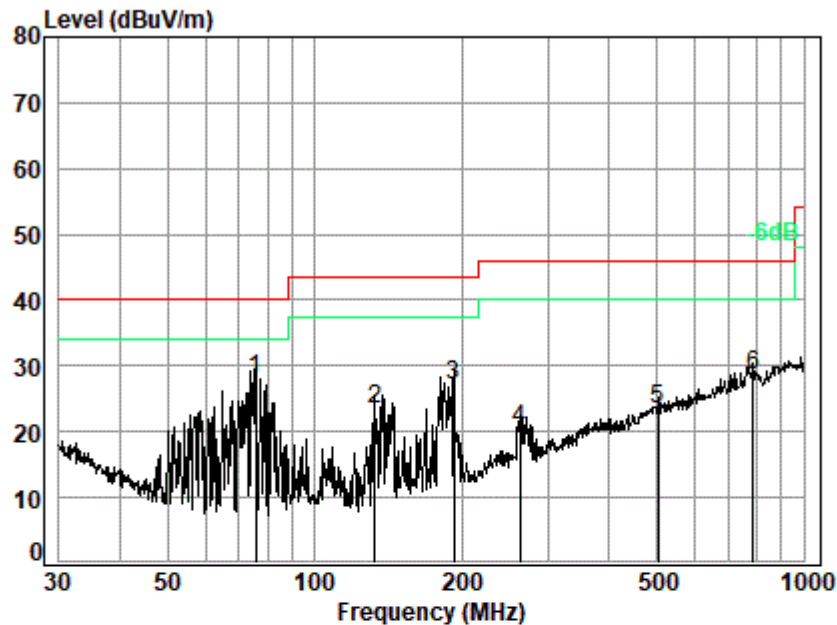
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Below 1GHz- Vertical

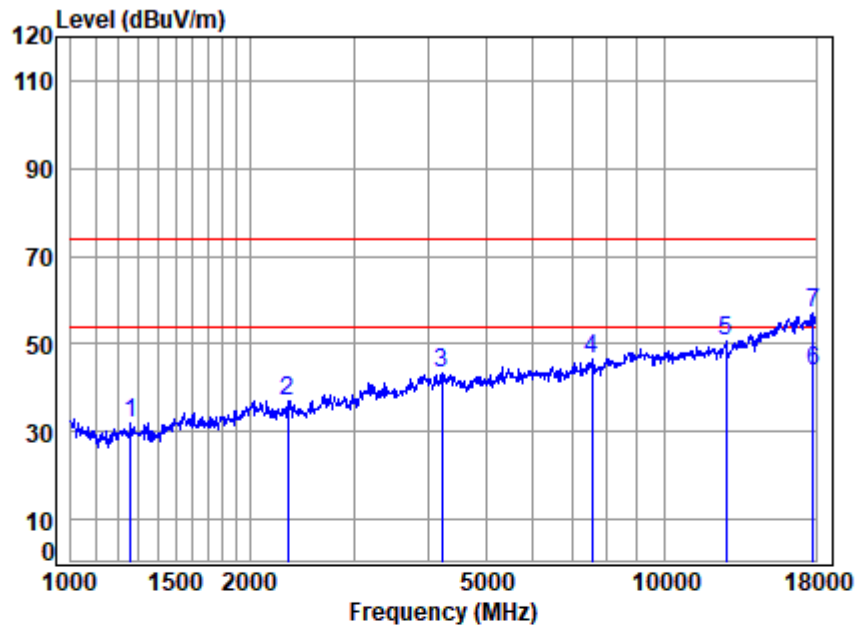


Site : chamber
Condition: 3m VERTICAL
Job No. : 00015AU
Test Mode: RSE TX

		Ant	Cable	Preamp	Read		Limit	Over	
	Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q	75.711	10.38	1.06	27.66	44.22	28.00	40.00	-12.00	QP
2	132.685	11.17	1.44	27.45	38.33	23.49	43.50	-20.01	QP
3	192.419	14.23	1.73	27.20	38.36	27.12	43.50	-16.38	QP
4	262.896	17.13	2.06	26.91	28.20	20.48	46.00	-25.52	QP
5	504.706	23.05	2.94	27.58	24.87	23.28	46.00	-22.72	QP
6	787.851	27.15	3.82	27.51	25.10	28.56	46.00	-17.44	QP



1GHz-18GHz; Test Mode: 00; Polarity: Horizontal

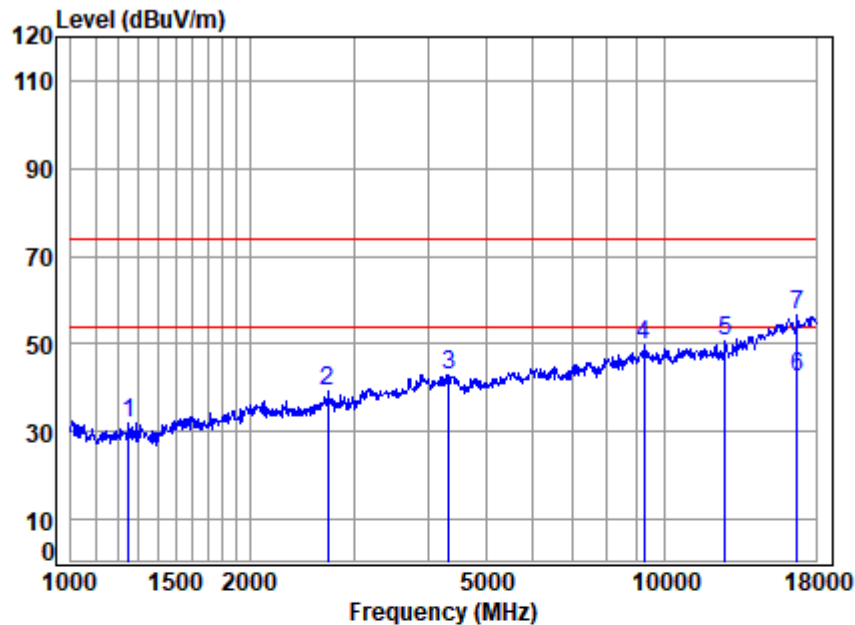


Site : chamber
Condition: 3m HORIZONTAL
Job No : 00017AU
Mode : RSE TX

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1260.149	4.56	25.04	54.70	57.17	32.07	74.00	-41.93 Peak
2	2318.912	6.18	28.66	54.94	57.20	37.10	74.00	-36.90 Peak
3	4218.186	8.24	33.80	54.28	55.37	43.13	74.00	-30.87 Peak
4	7541.114	9.07	36.10	53.14	54.67	46.70	74.00	-27.30 Peak
5	12724.470	13.12	38.10	53.20	52.48	50.50	74.00	-23.50 Peak
6	q17793.090	16.37	43.89	52.50	35.82	43.58	54.00	-10.42 Average
7	p17793.090	16.37	43.89	52.50	49.26	57.02	74.00	-16.98 Peak



1GHz-18GHz; Test Mode: 00; Polarity: Vertical

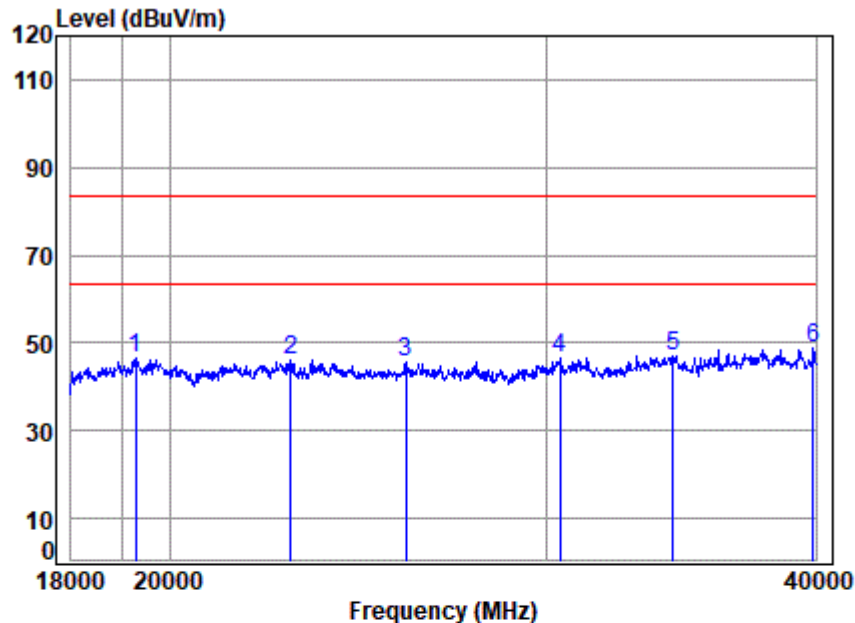


Site : chamber
Condition: 3m VERTICAL
Job No : 00017AU
Mode : RSE TX

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1252.885	4.56	25.08	54.70	57.05	31.99	74.00	-42.01 Peak
2	2710.622	6.59	29.70	54.97	57.93	39.25	74.00	-34.75 Peak
3	4329.354	8.09	34.23	54.26	54.91	42.97	74.00	-31.03 Peak
4	9232.187	11.60	37.16	53.50	54.32	49.58	74.00	-24.42 Peak
5	12651.130	13.03	38.00	53.20	52.96	50.79	74.00	-23.21 Peak
6	q16745.210	15.81	42.79	52.63	36.66	42.63	54.00	-11.37 Average
7	p16745.210	15.81	42.79	52.63	50.67	56.64	74.00	-17.36 Peak



18GHz-40GHz; Test Mode: 00; Polarity: Horizontal



Site : chamber
Condition: 1m HORIZONTAL
Job No : 00017AU
Mode : RSE TX

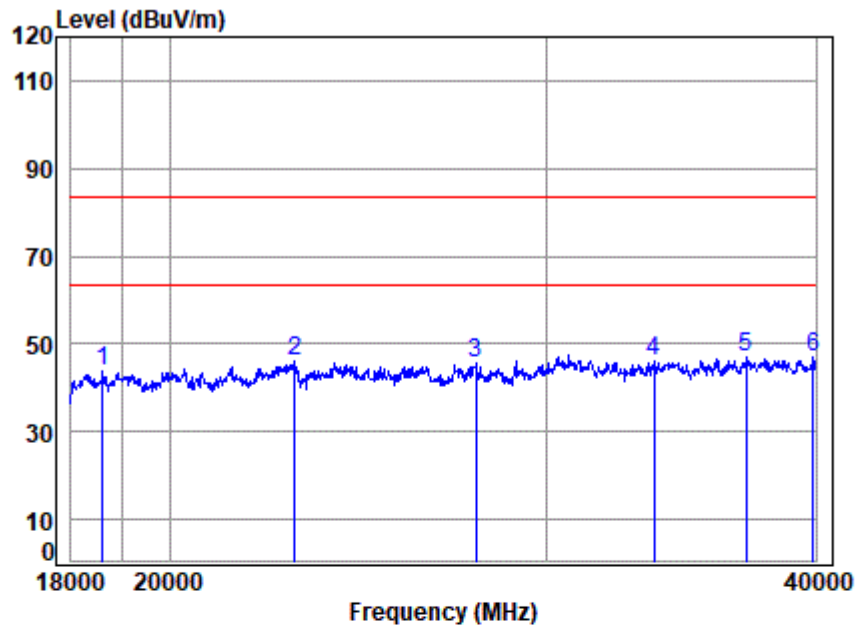
		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	19294.920	5.95	37.80	56.66	68.89	46.44	83.54	-37.10 Peak
2	22781.110	6.57	37.34	54.42	66.14	46.09	83.54	-37.45 Peak
3	25762.030	7.32	39.50	52.24	60.81	45.85	83.54	-37.69 Peak
4	30392.410	7.52	40.24	51.86	60.17	46.53	83.54	-37.01 Peak
5	34341.840	7.53	41.67	50.93	58.32	47.05	83.54	-36.49 Peak
6	39904.290	7.69	43.29	54.37	61.71	48.78	83.54	-34.76 Peak



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18GHz-40GHz; Test Mode: 00; Polarity: Vertical

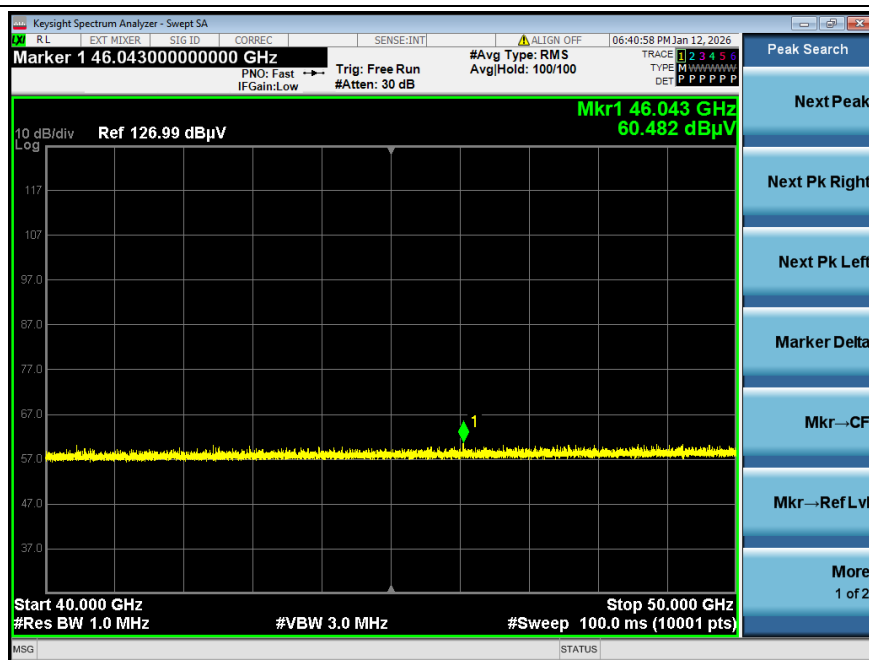


Site : chamber
Condition: 1m VERTICAL
Job No : 00017AU
Mode : RSE TX

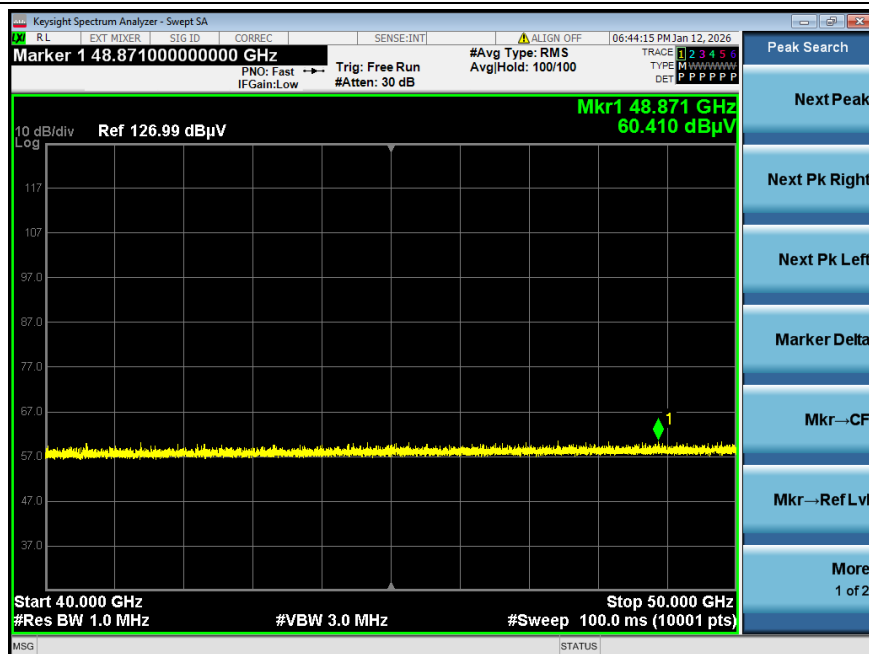
	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 18628.780	5.51	36.80	56.15	67.25	43.87	83.54	-39.67	Peak
2 22872.240	6.64	37.45	54.62	66.11	46.04	83.54	-37.50	Peak
3 27792.330	7.03	39.53	52.08	60.78	45.72	83.54	-37.82	Peak
4 33636.210	7.77	41.35	51.27	57.88	46.19	83.54	-37.35	Peak
5 37107.520	7.42	42.43	49.90	56.80	47.21	83.54	-36.33	Peak
6 39904.290	7.69	43.29	54.37	59.91	46.98	83.54	-36.56	Peak



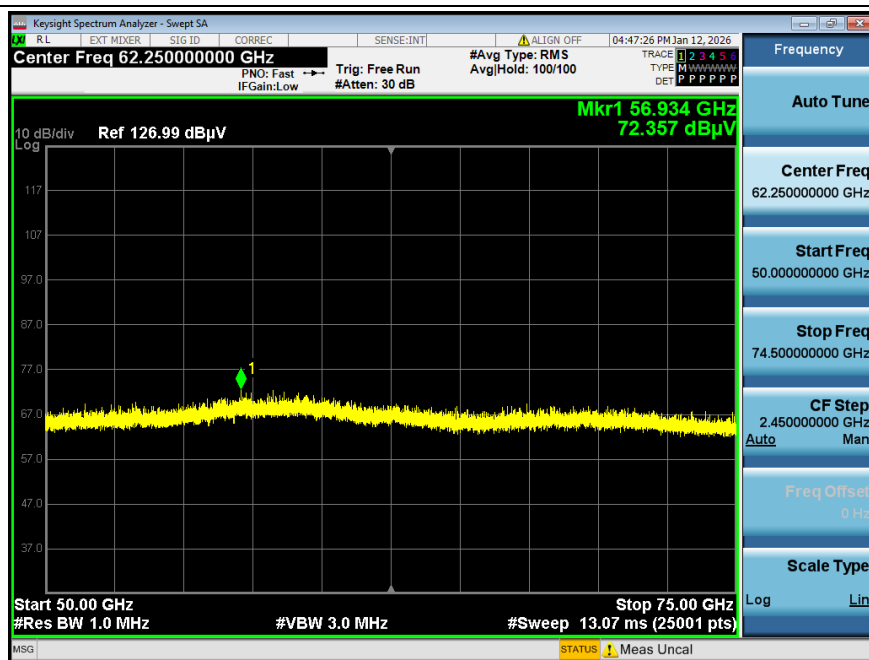
40GHz-50GHz Horizontal



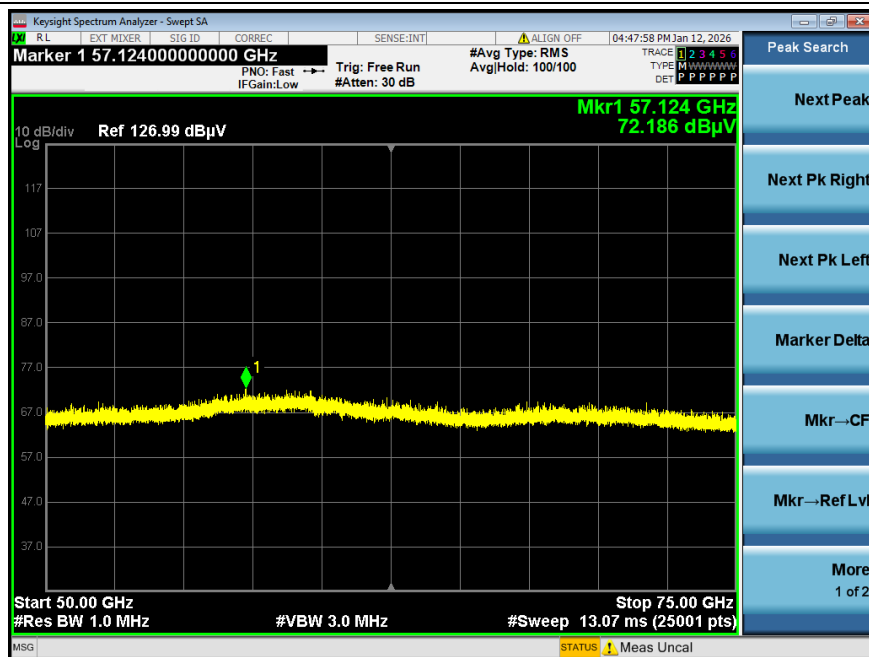
40GHz-50GHz Vertical



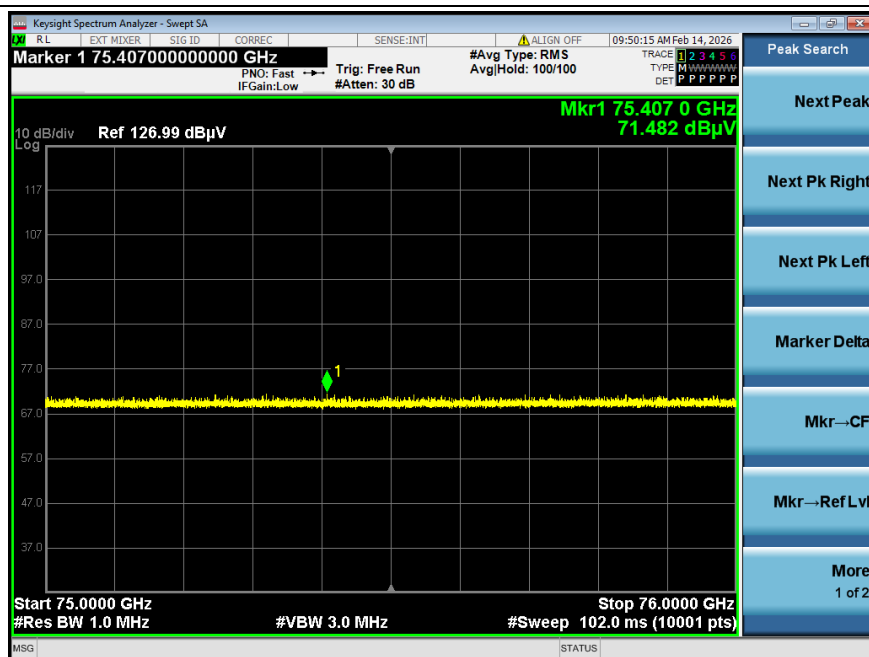
50GHz-75GHz Horizontal



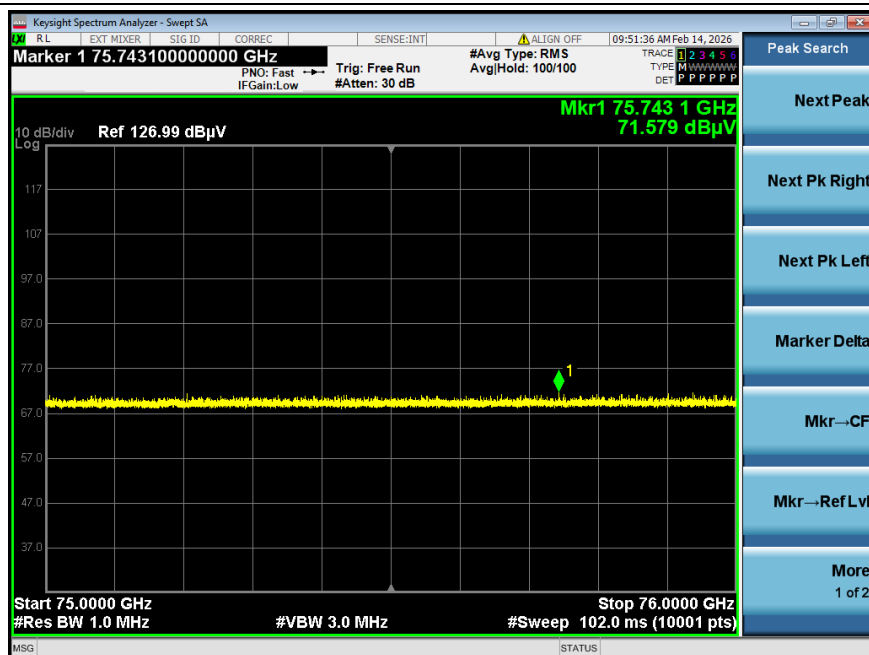
50GHz-75GHz Vertical



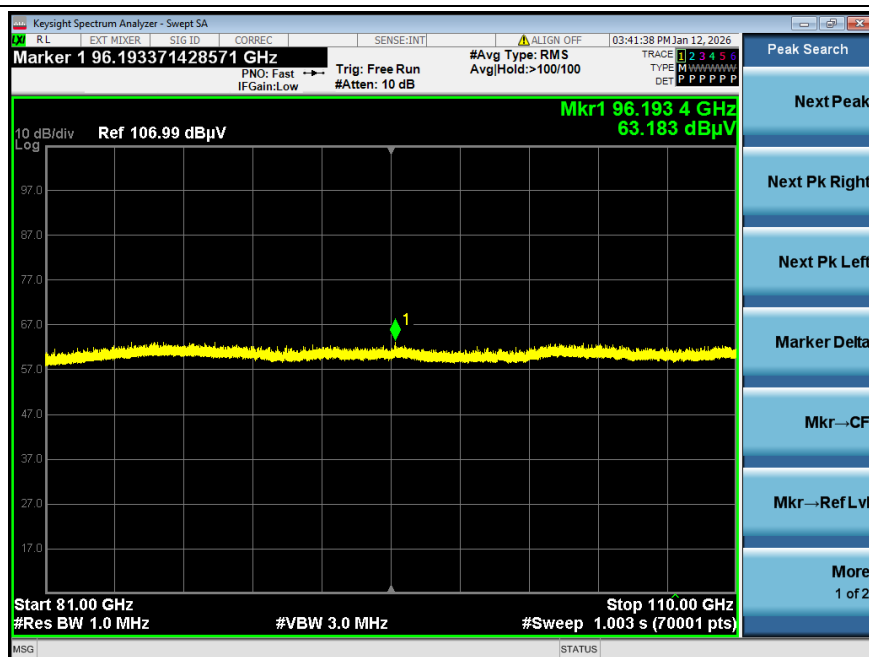
75GHz-76GHz Horizontal



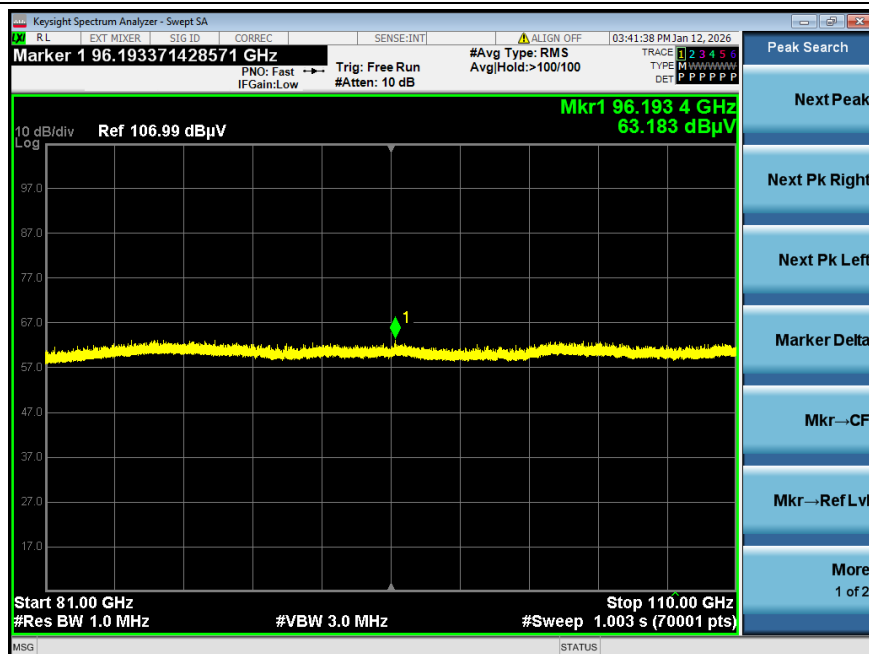
75GHz-76GHz Vertical



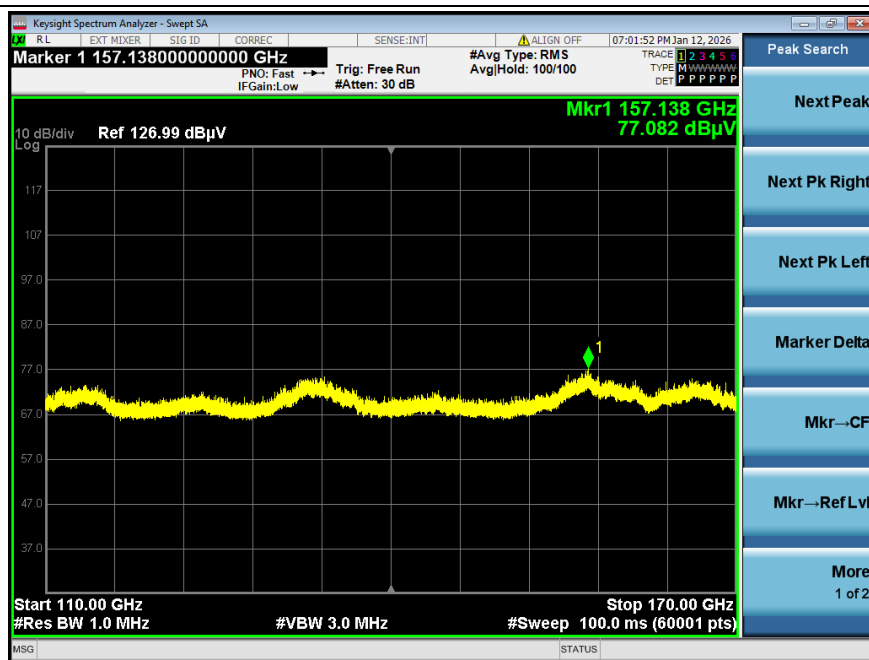
81GHz-110GHz Horizontal



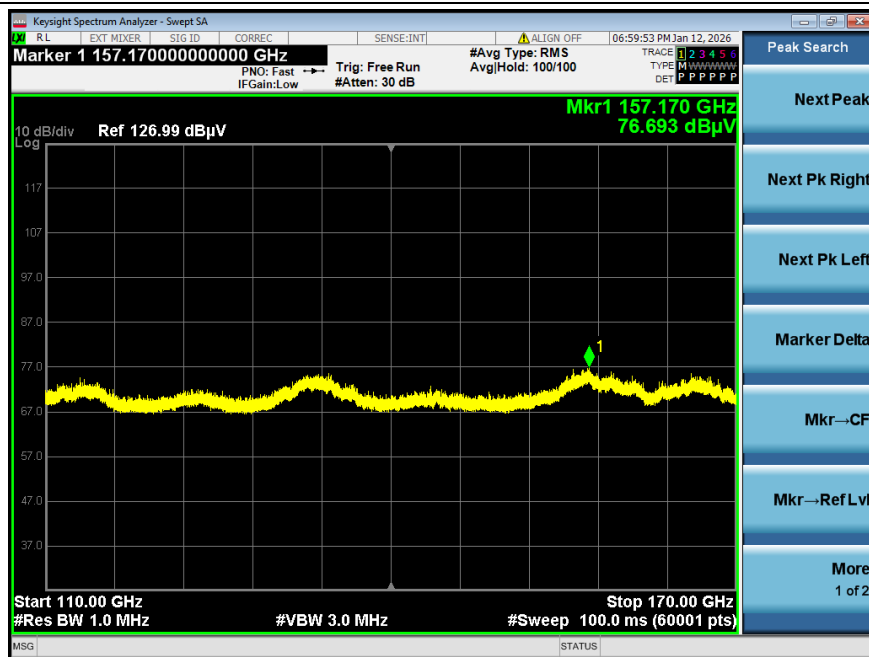
81GHz-110GHz Vertical



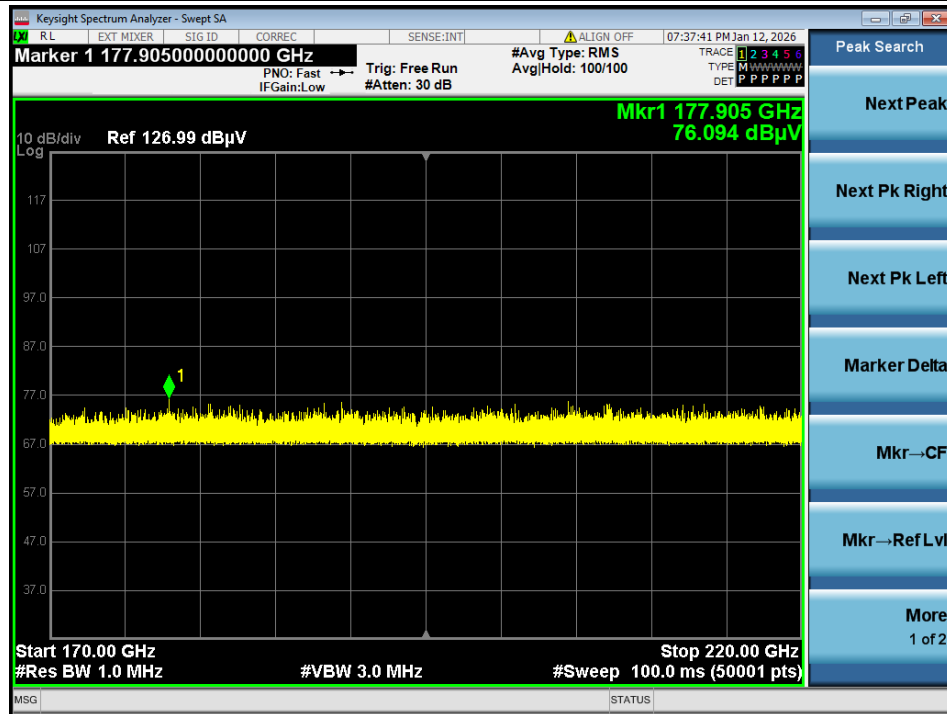
110GHz-170GHz Horizontal



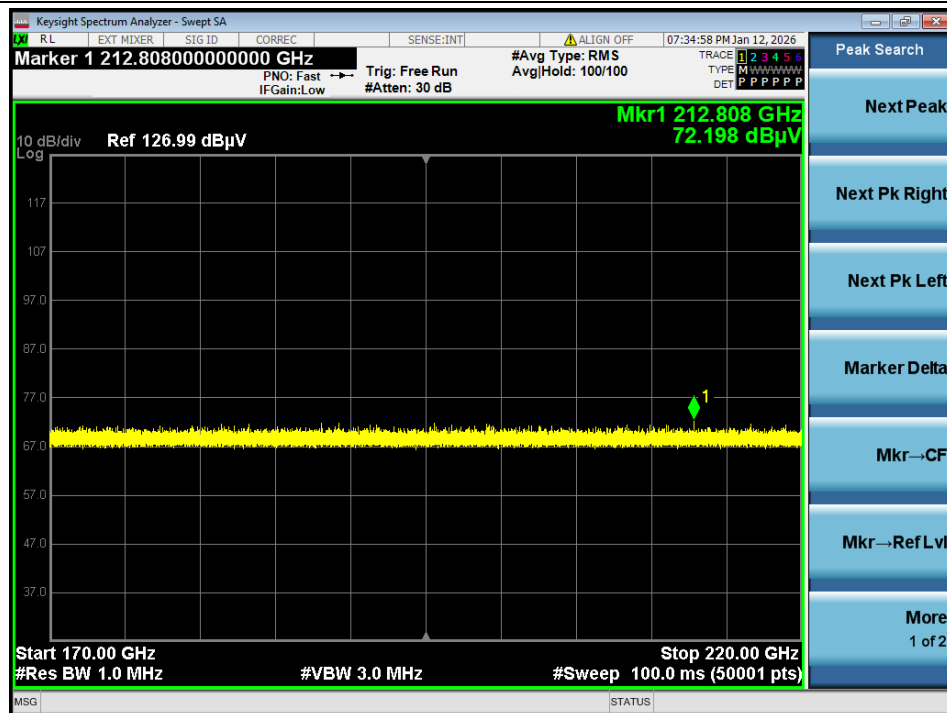
110GHz-170GHz Vertical



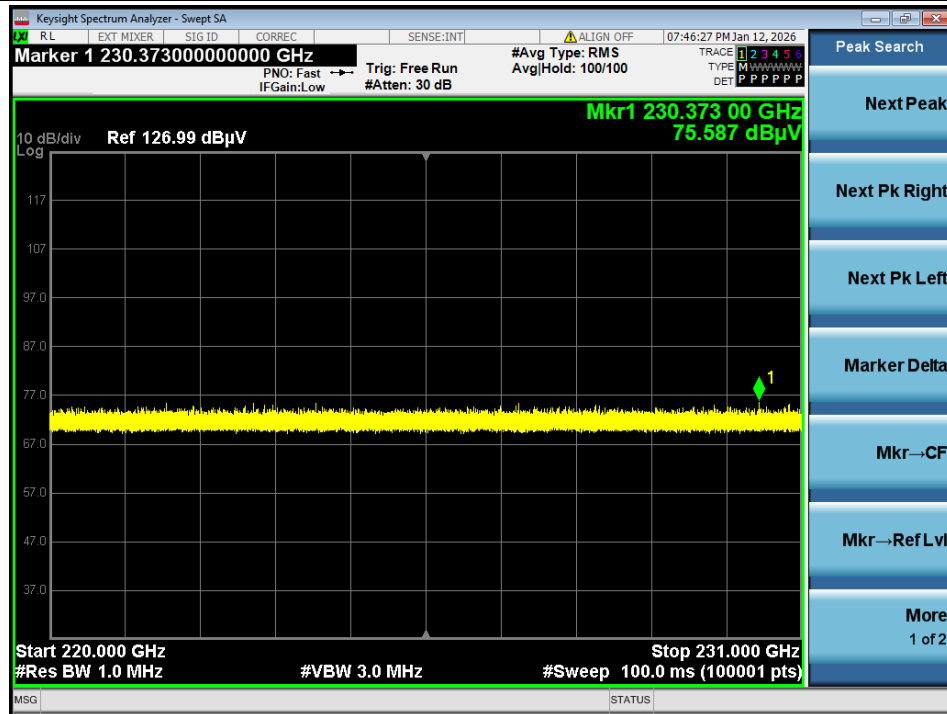
170GHz-220GHz Horizontal



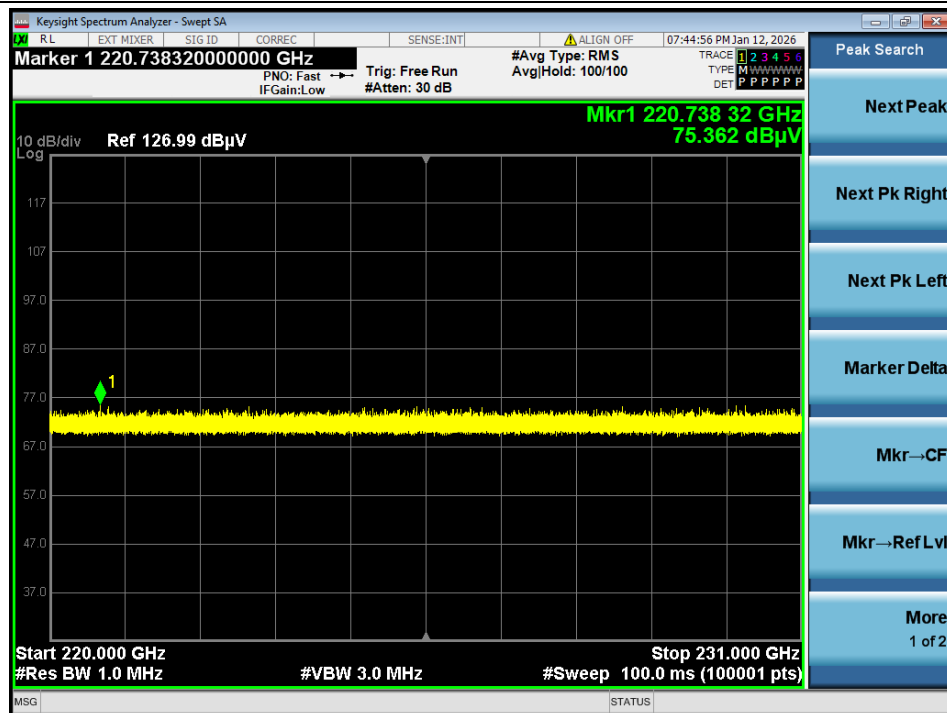
170GHz-220GHz Vertical



220G-231GHz Horizontal



220G-231GHz Vertical



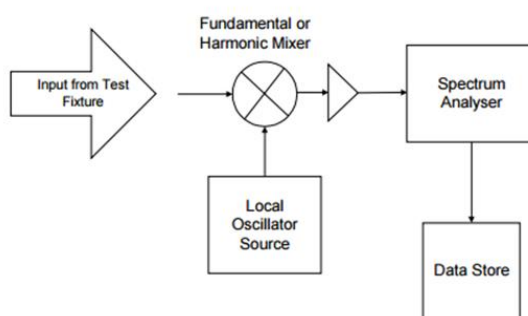
6.5 Frequency Stability

Test Requirement: 47 CFR Part 95.3379
47 CFR Part 2.1055
Test Method: ANSI C63.26 (2015) Section 5.6
Limit: 76-81GHz

6.5.1 E.U.T. Operation

Operating Environment:
Temperature: 25.2 °C Humidity: 50.6 % RH Atmospheric Pressure: 1010 mbar
Test mode a:TX mode_Make EUT continuously emit radar signals

6.5.2 Test Setup Diagram



6.5.3 Conclusion

EUT complies with 47 CFR Part 95.3379; 47 CFR Part 2.1055 requirement



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6.5.4 Measurement Data

76-77GHz:

Voltage (%)	Power (VDC)	Temp (°C)	FL (GHz)	FH (GHz)	Limit (GHz)	Result
110%	13.2V	-40	76.082	76.872	76-81GHz	Pass
		-30	76.078	76.864	76-81GHz	Pass
		-20	76.075	76.872	76-81GHz	Pass
		-10	76.076	76.866	76-81GHz	Pass
		0	76.081	76.870	76-81GHz	Pass
		+10	76.081	76.863	76-81GHz	Pass
		+20	76.084	76.868	76-81GHz	Pass
		+30	76.076	76.872	76-81GHz	Pass
		+40	76.077	76.868	76-81GHz	Pass
		+50	76.080	76.866	76-81GHz	Pass
		+60	76.080	76.876	76-81GHz	Pass
		+70	76.076	76.866	76-81GHz	Pass
		+80	76.084	76.862	76-81GHz	Pass
		+85	76.080	76.864	76-81GHz	Pass
115%	13.8V	+20	76.084	76.868	76-81GHz	Pass
85%	10.2V	+20	76.083	76.872	76-81GHz	Pass



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7 Test Setup Photo

Refer to Appendix - Test Setup Photo for SZCR2601000017AU

8 EUT Constructional Details (EUT Photos)

Refer to Appendix – External and Internal Photos for SZCR2601000017AU

- End of the Report -

