Appendix A

BLE Test Data

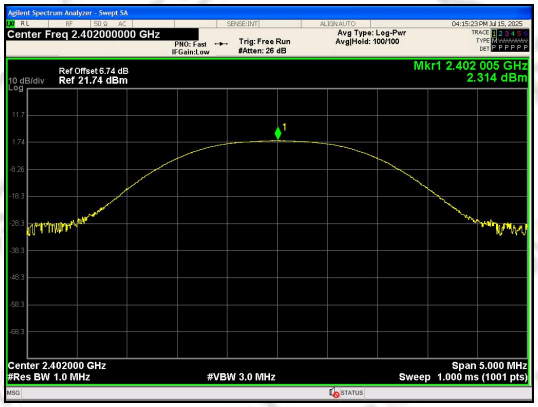
Conducted Test Data

Conducted Output Power

Test Result

Mode	Channel	Peak Output Power (dBm)	Peak Output Power (mW)	Limit (dBm)	Result
BLE 1M	0	2.31	1.7	≤30	PASS
	19	1.75	1.5	≤30	PASS
	39	0.74	1.19	≤30	PASS

Test Graphs

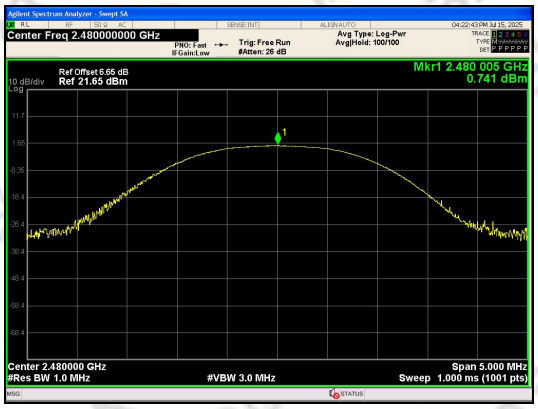


Peak Output Power

BLE 1M_Channel 0

Peak Output Power

BLE 1M_Channel 19



Peak Output Power

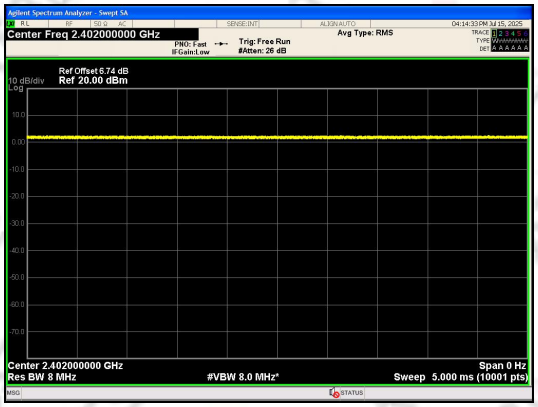
BLE 1M_Channel 39

Duty Cycle

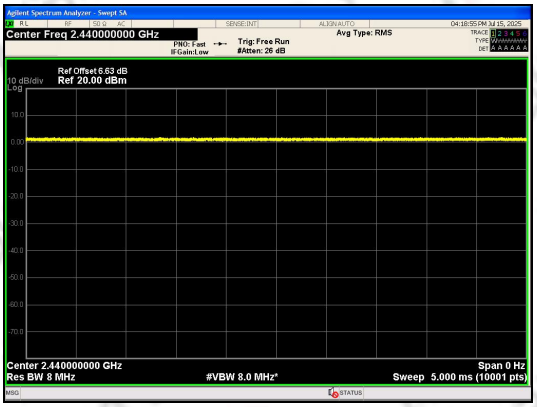
Test Result

Mode	Channel	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T
BLE 1M	0	5.000	5.000	100	1	0.0	0.2000
	19	5.000	5.000	100	1	0.0	0.2000
	39	5.000	5.000	100	1	0.0	0.2000

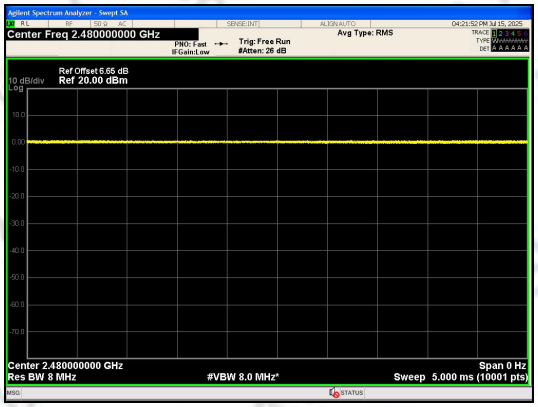
Test Graphs



BLE 1M_Channel 0



BLE 1M_Channel 19



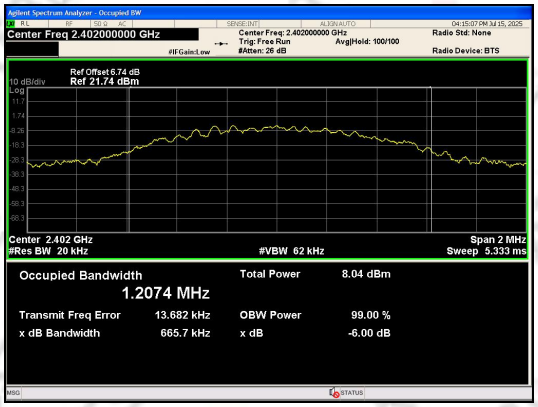
BLE 1M_Channel 39

6dB Bandwidth

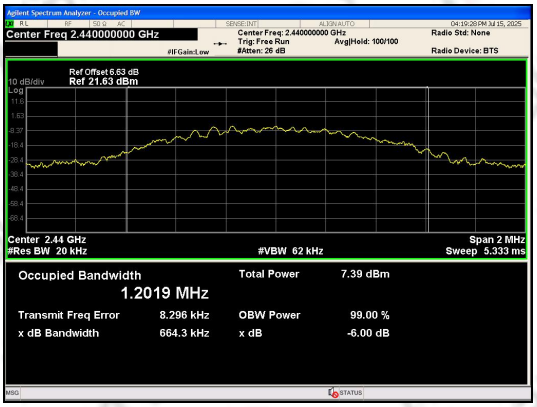
Test Result

Mode	Channel	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
BLE 1M	0	2402	0.6700	≥0.5	PASS
	19	2440	0.6600		PASS
	39	2480	0.6600		PASS

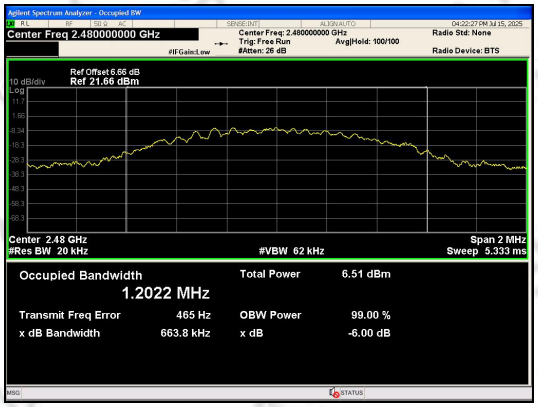
Test Graphs



BLE 1M_Channel 0



BLE 1M_Channel 19



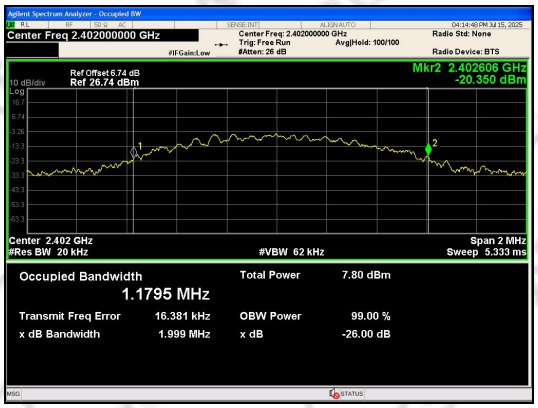
BLE 1M_Channel 39

99% Bandwidth

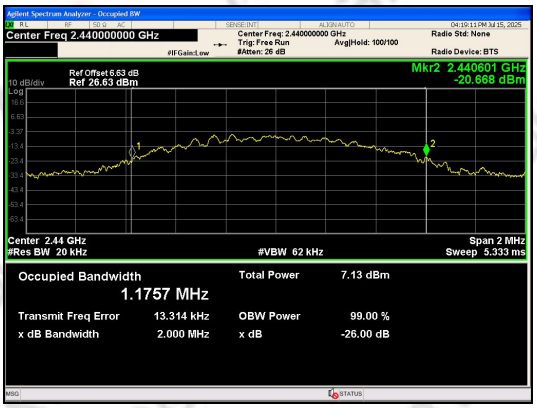
Test Result

Mode	Channel	Center Frequency (MHz)	99% BW (MHz)
BLE 1M	0	2402	1.1795
BLE 1M	19	2440	1.1757
BLE 1M	39	2480	1.1934

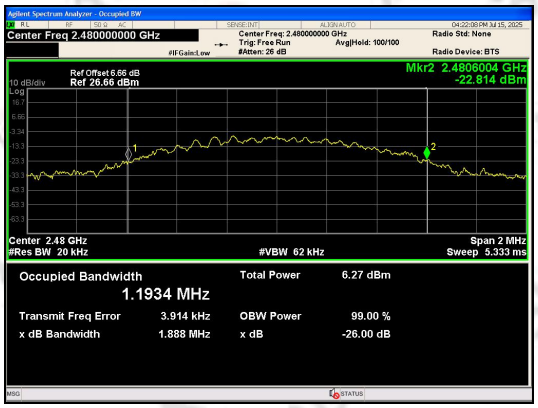
Test Graphs



BLE 1M_Channel 0



BLE 1M_Channel 19



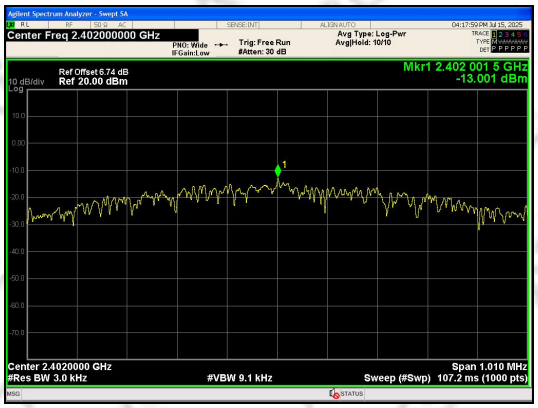
BLE 1M_Channel 39

Power Spectral Density

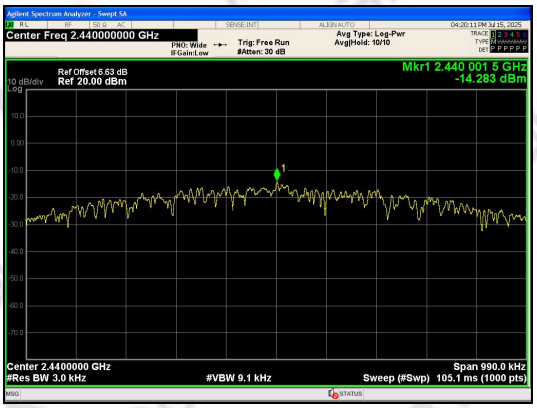
Test Result

Mode	Channel	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
BLE 1M	0	-13.000	≤8	PASS
BLE 1M	19	-14.280	≤8	PASS
BLE 1M	39	-14.600	≤8	PASS

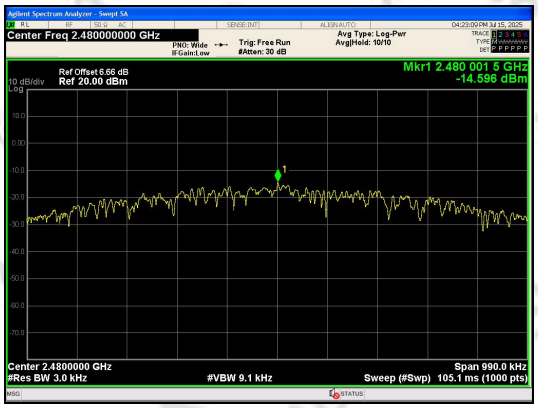
Test Graphs



BLE 1M_Channel 0



BLE 1M_Channel 19



BLE 1M_Channel 39

Conducted Out Of Band Emission

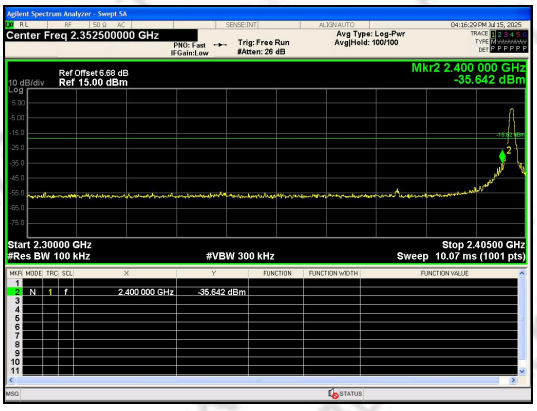
Note:The maximum loss of the test system for testing at 30MHz-26.5GHz is 17.2dB. The offset on the test chart is the offset of the main frequency, and the margin is sufficient to offset the difference between the maximum loss of the system and the offset of the main frequency.

Test Result

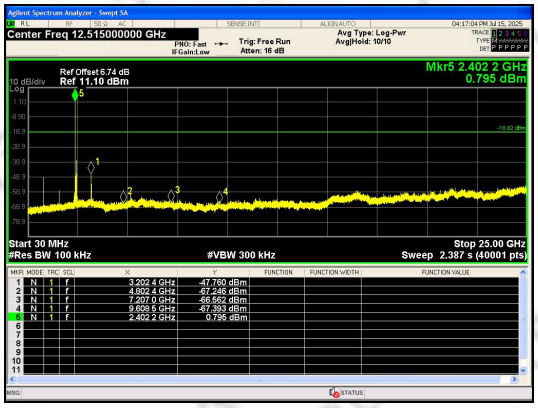
Mode	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
BLE 1M	0	2400.00	-35.640	-18.82	-16.820	PASS
		3202.44	-47.760	-18.82	-28.940	PASS
		4802.39	-67.246	-18.82	-48.426	PASS
		7207.00	-66.562	-18.82	-47.742	PASS
		9608.49	-67.393	-18.82	-48.573	PASS
	19	3253.63	-50.057	-19.43	-30.627	PASS
		4880.42	-66.502	-19.43	-47.072	PASS
		7320.62	-66.674	-19.43	-47.244	PASS
		9761.43	-67.863	-19.43	-48.433	PASS
	39	826.54	-53.100	-20.53	-32.570	PASS
		2483.50	-43.210	-20.53	-22.680	PASS
		4960.33	-66.299	-20.53	-45.769	PASS
		7439.85	-66.102	-20.53	-45.572	PASS
		9919.99	-67.628	-20.53	-47.098	PASS

Test Graphs

In-Band Reference Level
BLE 1M_Channel 0

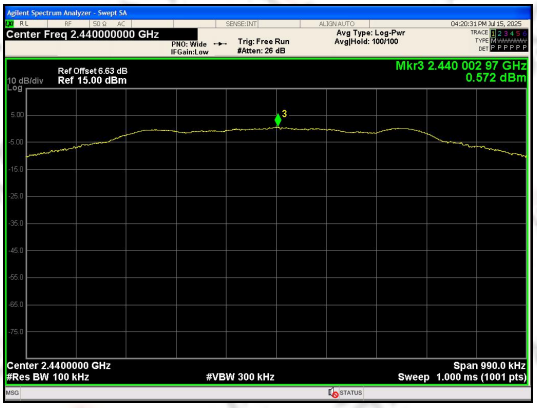


Out Of Band Emission
BLE 1M_Channel 0



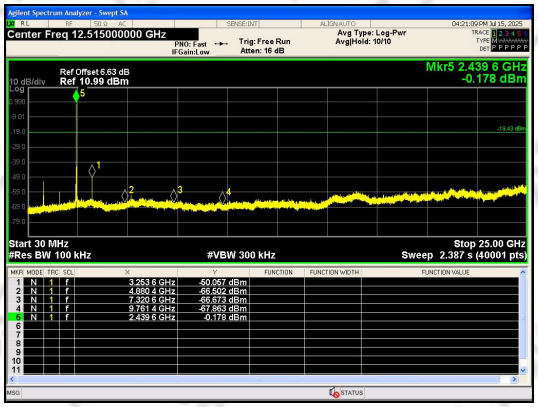
30.0 MHz - 25000.0 MHz

BLE 1M_Channel 0



In-Band Reference Level

BLE 1M_Channel 19

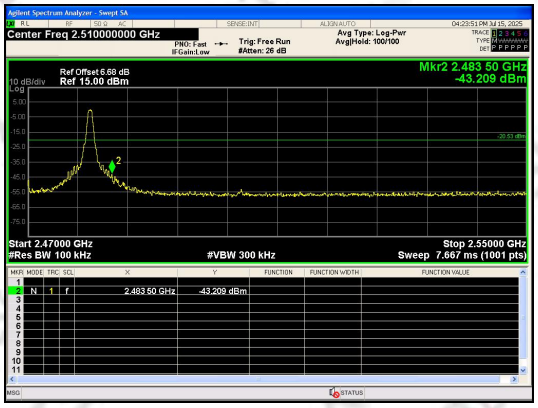


30.0 MHz - 25000.0 MHz

BLE 1M_Channel 19

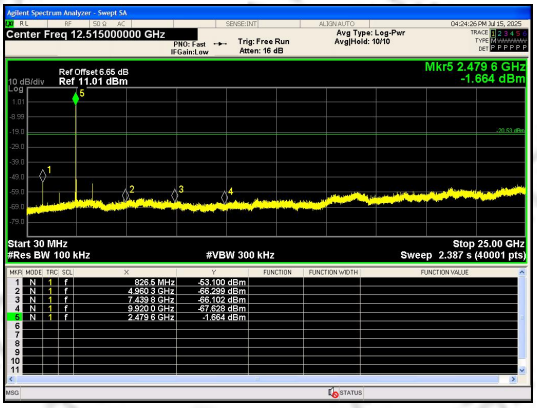
In-Band Reference Level

BLE 1M_Channel 39



Out Of Band Emission

BLE 1M_Channel 39



30.0 MHz - 25000.0 MHz

BLE 1M_Channel 39

Radiated Test Data

Radiated Spurious Emission

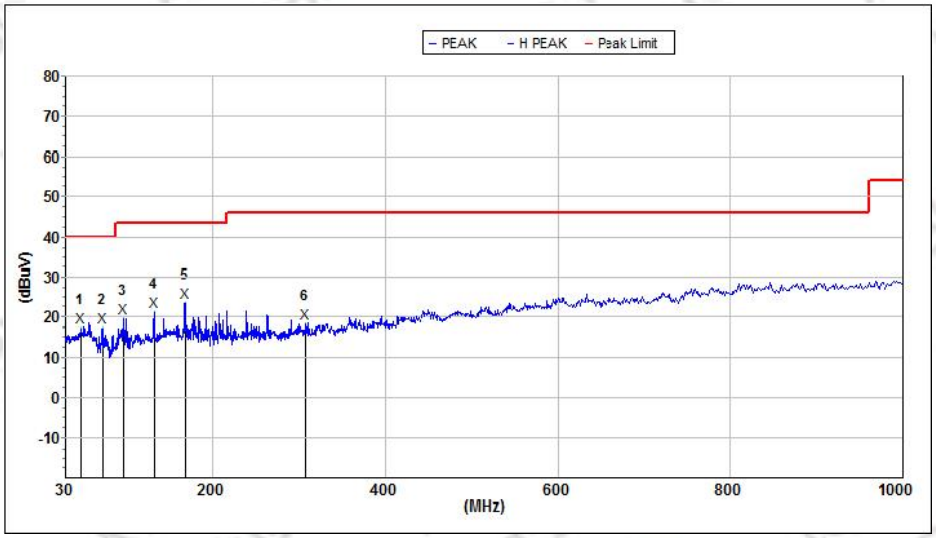
Radiated Emission (9KHz-30MHz)

Note:The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Radiated Emission (30MHz-1GHz)

Note:All modes have been tested, only worst case mode(BLE 1M) was recorded in the test report.

Temperature:	24℃	Relative Humidity:	53%
Test Voltage:	AC 120V/60Hz	Phase:	Horizontal
Test Mode:	BLE 1M-2402MHz	Comment:	30MHz-1GHz



Test Summary Result

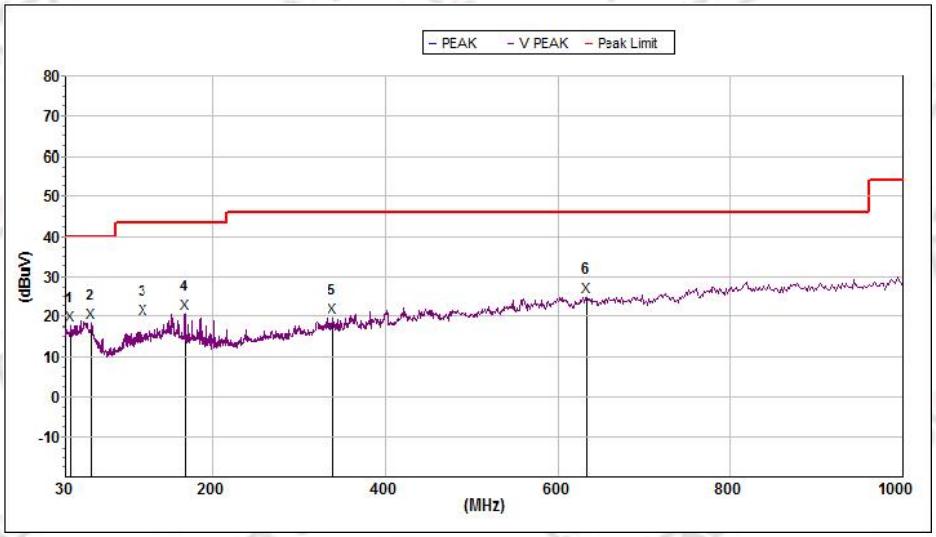
Mk.	Freq. (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Ant.F/G. (dB)	Amp.G. (dB)	Pol.
Peak:							
1	47.492	17.6	40.0	22.4	19.4	31.1	H
2	72.084	17.5	40.0	22.5	16.1	32.8	H
3	95.930	19.9	43.5	23.6	14.8	31.1	H
4	133.151	21.4	43.5	22.1	17.7	31.1	H
5	168.119	23.6	43.5	19.9	17.9	31.5	H
6	307.831	18.4	46.0	27.6	19.4	32.4	H

Note:

1.Margin = Result (Result =Reading + Factor)-Limit

2.Factor= Cable Loss +Antenna Factor-Amplifier Gain

Temperature:	24℃	Relative Humidity:	53%
Test Voltage:	AC 120V/60Hz	Phase:	Vertical
Test Mode:	BLE 1M-2402MHz	Comment:	30MHz-1GHz



Test Summary Result

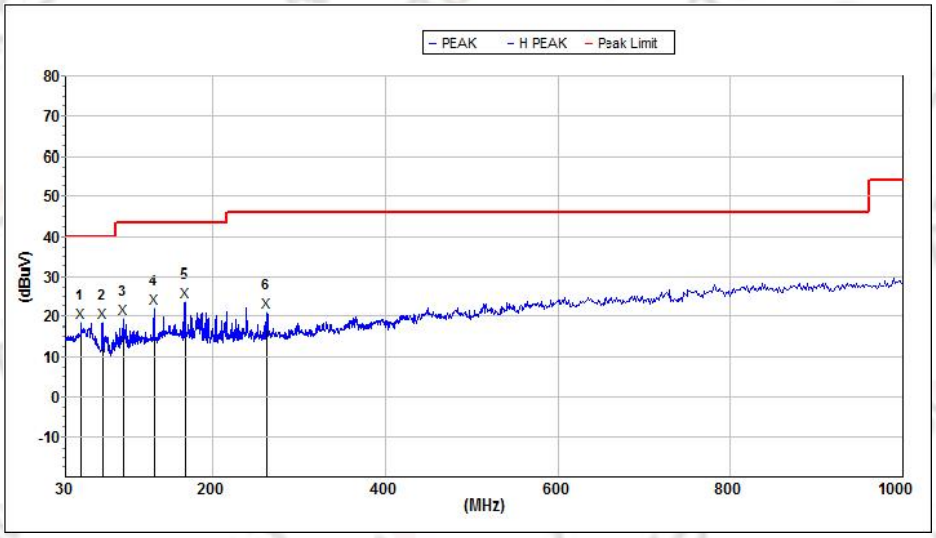
Mk.	Freq. (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Ant.F/G. (dB)	Amp.G. (dB)	Pol.
Peak:							
1	36.254	17.7	40.0	22.3	18.8	31.8	V
2	60.069	18.6	40.0	21.4	18.0	31.2	V
3	120.066	19.5	43.5	24.0	16.6	31.0	V
4	168.119	20.8	43.5	22.7	17.9	31.5	V
5	340.185	19.9	46.0	26.1	20.0	32.7	V
6	632.797	25.1	46.0	20.9	26.2	31.8	V

Note:

1.Margin = Result (Result =Reading + Factor)-Limit

2.Factor= Cable Loss +Antenna Factor-Amplifier Gain

Temperature:	24℃	Relative Humidity:	53%
Test Voltage:	AC 120V/60Hz	Phase:	Horizontal
Test Mode:	BLE 1M-2480MHz	Comment:	30MHz-1GHz



Test Summary Result

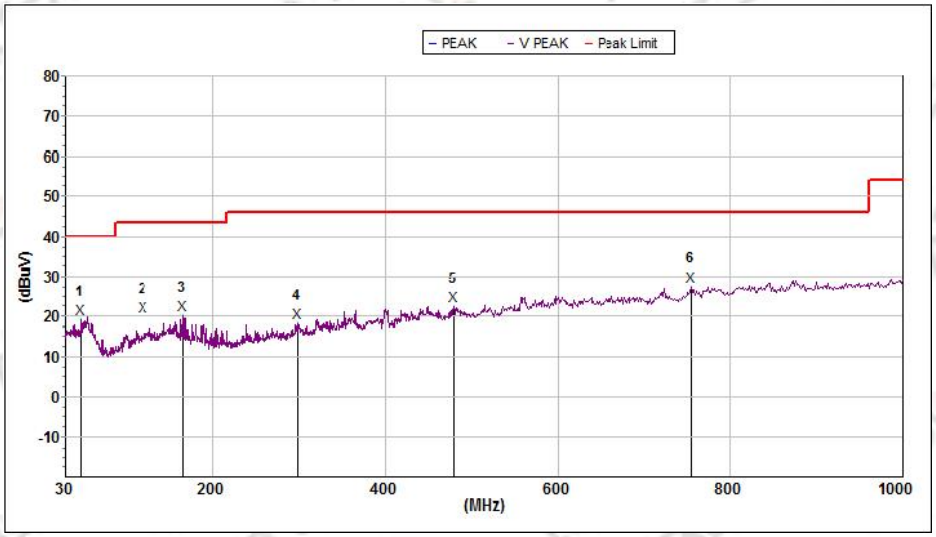
Mk.	Freq. (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Ant.F/G. (dB)	Amp.G. (dB)	Pol.
Peak:							
1	47.910	18.4	40.0	21.6	19.5	31.1	H
2	72.084	18.5	40.0	21.5	16.1	32.8	H
3	95.930	19.4	43.5	24.1	14.8	31.1	H
4	133.151	22.1	43.5	21.4	17.7	31.1	H
5	168.119	23.8	43.5	19.7	17.9	31.5	H
6	263.357	21.0	46.0	25.0	18.0	32.1	H

Note:

1.Margin = Result (Result =Reading + Factor)-Limit

2.Factor= Cable Loss +Antenna Factor-Amplifier Gain

Temperature:	24℃	Relative Humidity:	53%
Test Voltage:	AC 120V/60Hz	Phase:	Vertical
Test Mode:	BLE 1M-2480MHz	Comment:	30MHz-1GHz



Test Summary Result

Mk.	Freq. (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Ant.F/G. (dB)	Amp.G. (dB)	Pol.
Peak:							
1	47.910	19.5	40.0	20.5	19.5	31.1	V
2	120.066	20.1	43.5	23.4	16.6	31.0	V
3	165.197	20.6	43.5	22.9	18.1	31.5	V
4	298.792	18.5	46.0	27.5	19.2	32.3	V
5	479.686	22.8	46.0	23.2	23.2	31.8	V
6	754.064	27.7	46.0	18.3	27.7	32.0	V

Note:

1.Margin = Result (Result =Reading + Factor)-Limit

2.Factor= Cable Loss +Antenna Factor-Amplifier Gain

Radiated Emission (Above 1GHz)

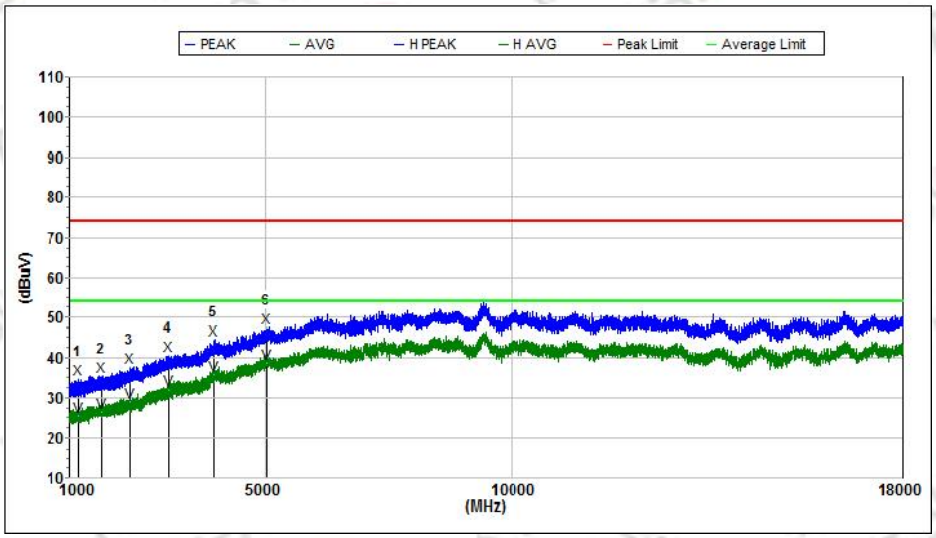
Note:

1.All modes have been tested, only worst case mode(BLE 1M) was recorded in the test report.

2.We used the filter to test and the main frequency was filtered out.

3.Other 18G-25G Emission detected are more than 20dB below the limit.

Temperature:	24℃	Relative Humidity:	53%
Test Voltage:	AC 120V/60Hz	Phase:	Horizontal
Test Mode:	BLE 1M-2402MHz	Comment:	1GHz-18GHz



Test Summary Result

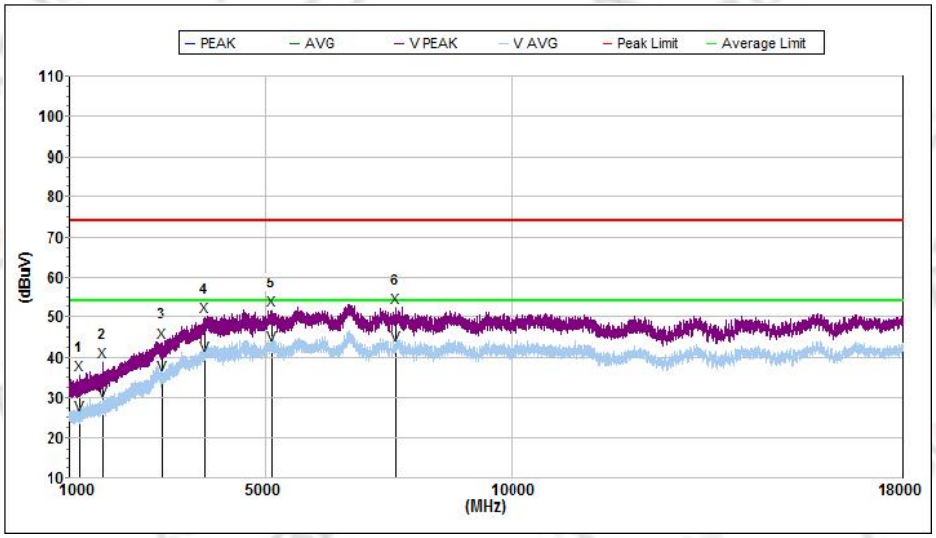
Mk.	Freq. (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Ant.F/G. (dB)	Amp.G. (dB)	Pol.
Peak:							
1	1176.100	34.6	74.0	39.4	25.6	53.6	H
2	1639.900	35.3	74.0	38.7	25.3	53.5	H
3	2230.600	37.5	74.0	36.5	27.0	54.0	H
4	3018.700	40.7	74.0	33.3	29.4	54.1	H
5	3944.800	44.5	74.0	29.5	30.7	53.3	H
6	5020.900	47.5	74.0	26.5	33.1	52.4	H
Avg:							
1	1176.100	25.6	54.0	28.4	25.6	53.6	H
2	1639.900	26.6	54.0	27.4	25.3	53.5	H
3	2230.600	29.1	54.0	24.9	27.0	54.0	H
4	3018.700	31.9	54.0	22.1	29.4	54.1	H
5	3944.800	35.7	54.0	18.3	30.7	53.3	H
6	5020.900	38.5	54.0	15.5	33.1	52.4	H

Note:

1.Margin = Result (Result =Reading + Factor)-Limit

2.Factor= Cable Loss +Antenna Factor-Amplifier Gain

Temperature:	24℃	Relative Humidity:	53%
Test Voltage:	AC 120V/60Hz	Phase:	Vertical
Test Mode:	BLE 1M-2402MHz	Comment:	1GHz-18GHz



Test Summary Result

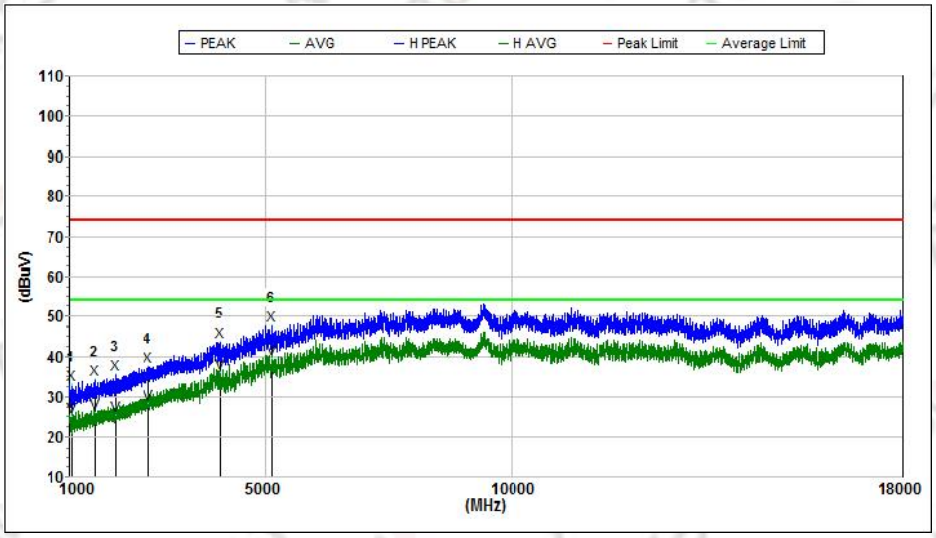
Mk.	Freq. (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Ant.F/G. (dB)	Amp.G. (dB)	Pol.
Peak:							
1	1212.976	35.5	74.0	38.5	25.7	53.6	V
2	1669.036	39.0	74.0	35.0	25.2	53.6	V
3	2896.736	44.0	74.0	30.0	29.0	54.1	V
4	3751.668	50.2	74.0	23.8	30.2	53.5	V
5	5114.710	51.8	74.0	22.2	33.1	52.4	V
6	7650.888	52.4	74.0	21.6	36.5	51.9	V
Avg:							
1	1212.976	25.7	54.0	28.3	25.7	53.6	V
2	1669.036	29.3	54.0	24.7	25.2	53.6	V
3	2896.736	35.8	54.0	18.2	29.0	54.1	V
4	3751.668	40.6	54.0	13.4	30.2	53.5	V
5	5114.710	43.3	54.0	10.7	33.1	52.4	V
6	7650.888	43.2	54.0	10.8	36.5	51.9	V

Note:

1.Margin = Result (Result =Reading + Factor)-Limit

2.Factor= Cable Loss +Antenna Factor-Amplifier Gain

Temperature:	24℃	Relative Humidity:	53%
Test Voltage:	AC 120V/60Hz	Phase:	Horizontal
Test Mode:	BLE 1M-2480MHz	Comment:	1GHz-18GHz



Test Summary Result

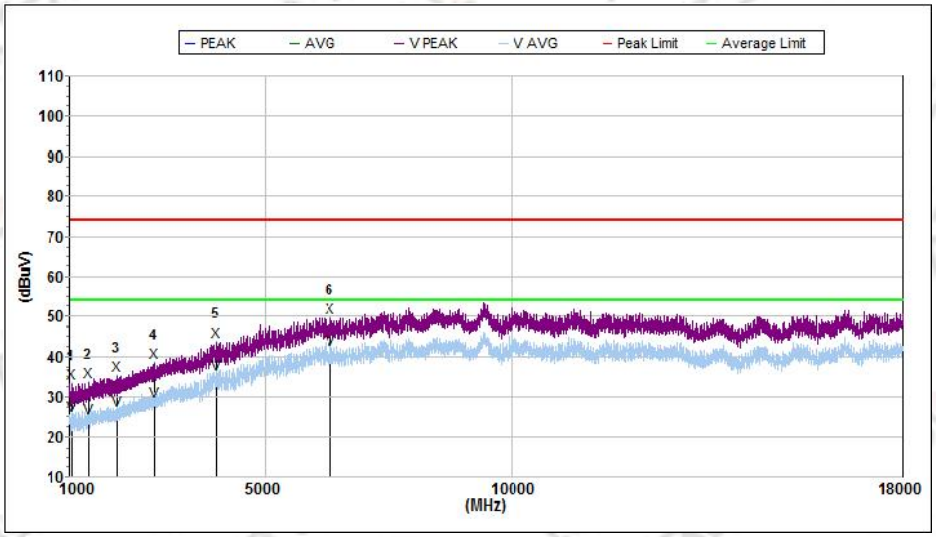
Mk.	Freq. (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Ant.F/G. (dB)	Amp.G. (dB)	Pol.
Peak:							
1	1063.300	32.9	74.0	41.1	25.2	53.7	H
2	1513.900	34.4	74.0	39.6	25.4	53.4	H
3	1922.500	35.7	74.0	38.3	26.0	53.8	H
4	2615.500	37.7	74.0	36.3	28.0	54.1	H
5	4050.400	44.0	74.0	30.0	31.0	53.2	H
6	5133.100	47.7	74.0	26.3	33.0	52.4	H
Avg:							
1	1063.300	25.1	54.0	28.9	25.2	53.7	H
2	1513.900	26.0	54.0	28.0	25.4	53.4	H
3	1922.500	25.3	54.0	28.7	26.0	53.8	H
4	2615.500	28.3	54.0	25.7	28.0	54.1	H
5	4050.400	36.1	54.0	17.9	31.0	53.2	H
6	5133.100	39.7	54.0	14.3	33.0	52.4	H

Note:

1.Margin = Result (Result =Reading + Factor)-Limit

2.Factor= Cable Loss +Antenna Factor-Amplifier Gain

Temperature:	24℃	Relative Humidity:	53%
Test Voltage:	AC 120V/60Hz	Phase:	Vertical
Test Mode:	BLE 1M-2480MHz	Comment:	1GHz-18GHz



Test Summary Result

Mk.	Freq. (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Ant.F/G. (dB)	Amp.G. (dB)	Pol.
Peak:							
1	1063.000	33.5	74.0	40.5	25.2	53.7	V
2	1386.400	33.7	74.0	40.3	25.5	53.5	V
3	1952.800	35.2	74.0	38.8	26.2	53.9	V
4	2749.900	38.5	74.0	35.5	28.5	54.1	V
5	3992.200	43.9	74.0	30.1	30.9	53.2	V
6	6331.900	49.8	74.0	24.2	34.9	51.6	V
Avg:							
1	1063.000	25.5	54.0	28.5	25.2	53.7	V
2	1386.400	24.8	54.0	29.2	25.5	53.5	V
3	1952.800	26.9	54.0	27.1	26.2	53.9	V
4	2749.900	29.0	54.0	25.0	28.5	54.1	V
5	3992.200	35.5	54.0	18.5	30.9	53.2	V
6	6331.900	41.8	54.0	12.2	34.9	51.6	V

Note:

1.Margin = Result (Result =Reading + Factor)-Limit

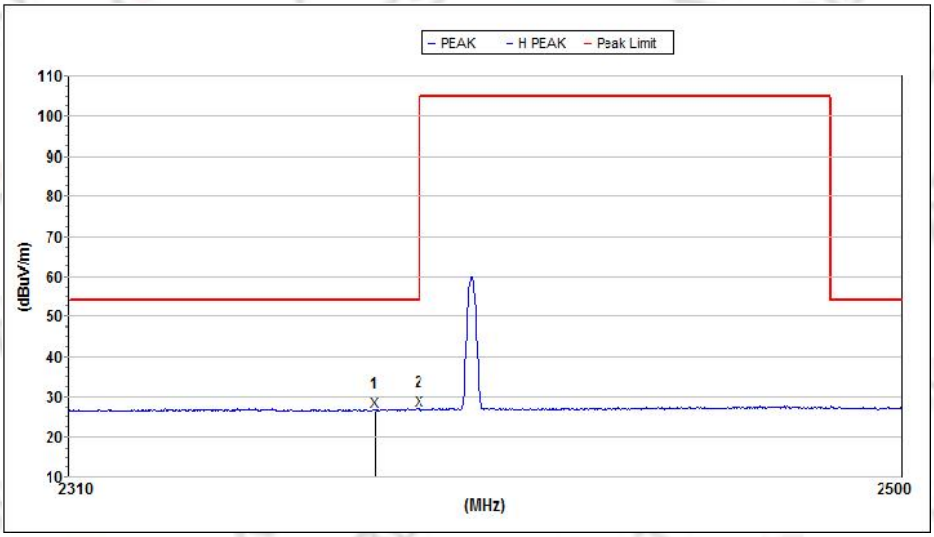
2.Factor= Cable Loss +Antenna Factor-Amplifier Gain

Restricted Band

Note:During the test, pre-scan All mode, the report only reflects the test data of worst mode(BLE 1M).

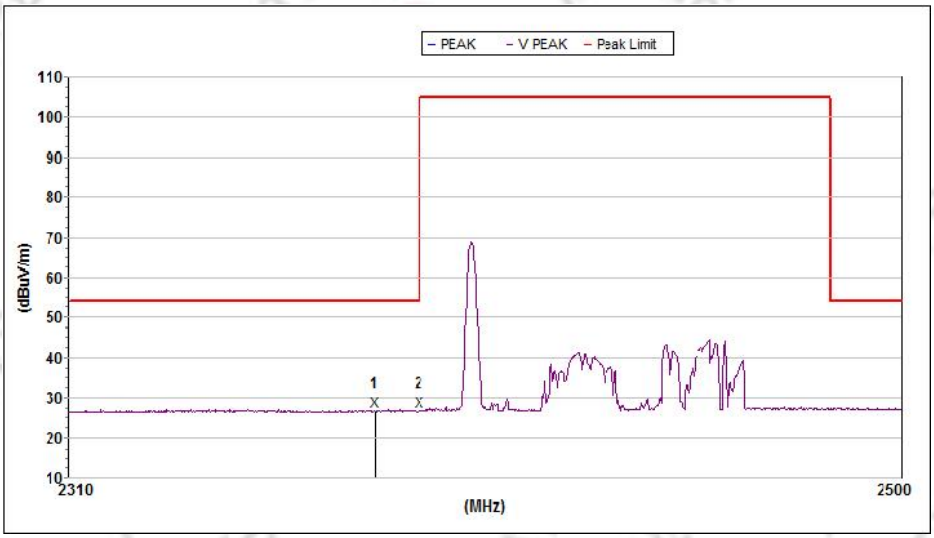
Test Mode: BLE 1M

Test Channel: Lowest channel, Test Polarization: Horizontal



Mk.	Frequency	Level	Limit	Margin	Ant.F/G.	Amp.G.	Pol.
	(MHz)	(dBμV/m)	(dBμV/m)	(dB)	(dB/m)	(dB)	
AVG							
1	2380.000	26.6	54.0	27.4	27.3	54.1	H
2	2390.000	26.7	54.0	27.3	27.4	54.1	H

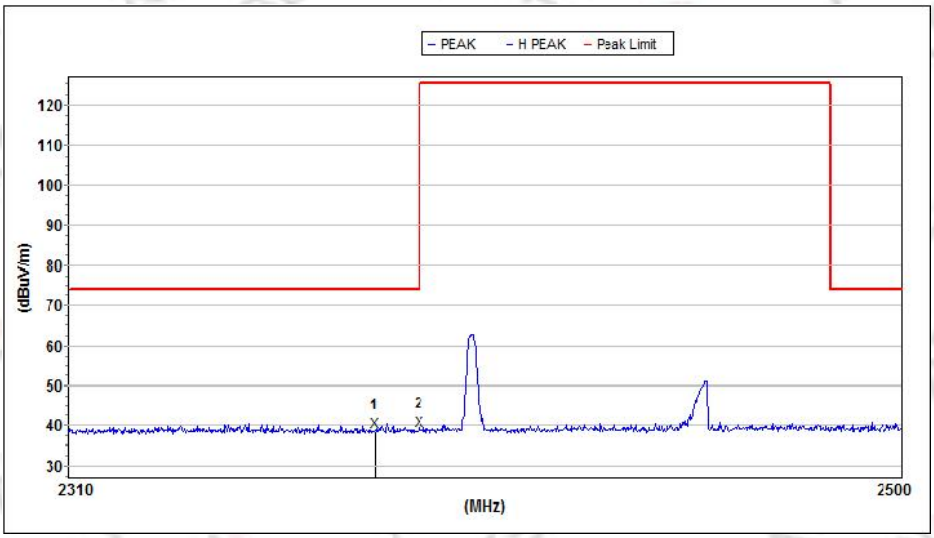
Test Channel: Lowest channel, Test Polarization: Vertical



Mk.	Frequency	Level	Limit	Margin	Ant.F/G.	Amp.G.	Pol.
	(MHz)	(dBμV/m)	(dBμV/m)	(dB)	(dB/m)	(dB)	
AVG							
1	2380.000	26.9	54.0	27.1	27.3	54.1	V
2	2390.000	26.9	54.0	27.1	27.4	54.1	V

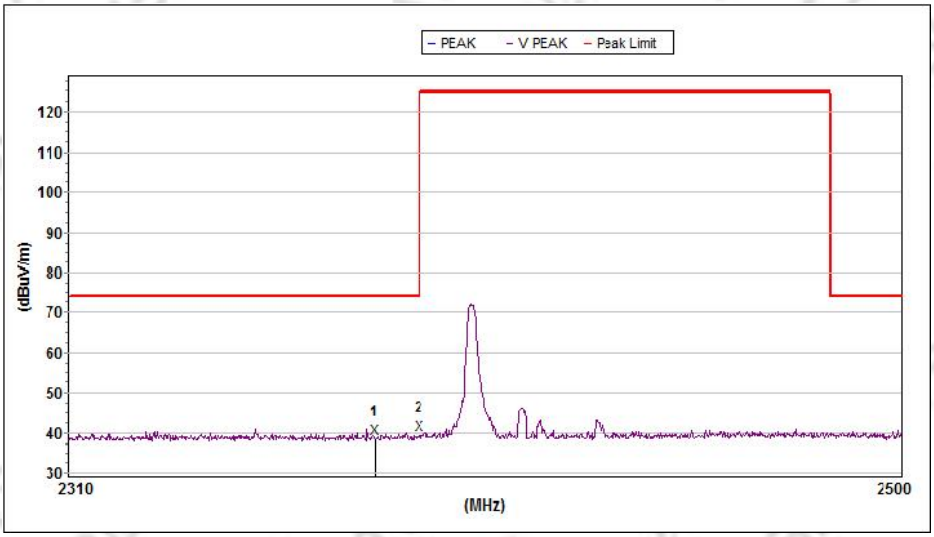
Test Mode: BLE 1M

Test Channel: Lowest channel, Test Polarization: Horizontal



Mk.	Frequency	Level	Limit	Margin	Ant.F/G.	Amp.G.	Pol.
	(MHz)	(dBμV/m)	(dBμV/m)	(dB)	(dB/m)	(dB)	
PEAK							
1	2380.000	38.5	74.0	35.5	27.3	54.1	H
2	2390.000	38.9	74.0	35.1	27.4	54.1	H

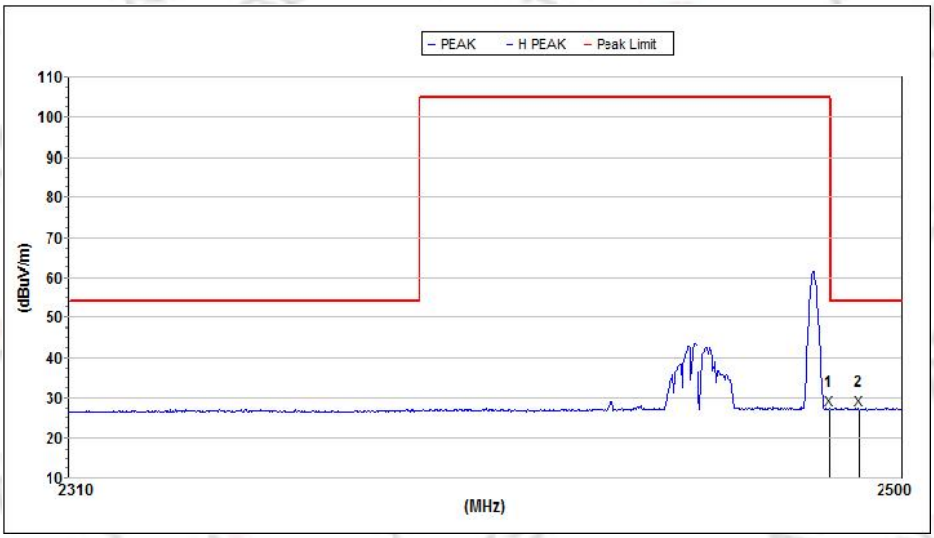
Test Channel: Lowest channel, Test Polarization: Vertical



Mk.	Frequency	Level	Limit	Margin	Ant.F/G.	Amp.G.	Pol.
	(MHz)	(dBμV/m)	(dBμV/m)	(dB)	(dB/m)	(dB)	
PEAK							
1	2380.000	38.6	74.0	35.4	27.3	54.1	V
2	2390.000	39.6	74.0	34.4	27.4	54.1	V

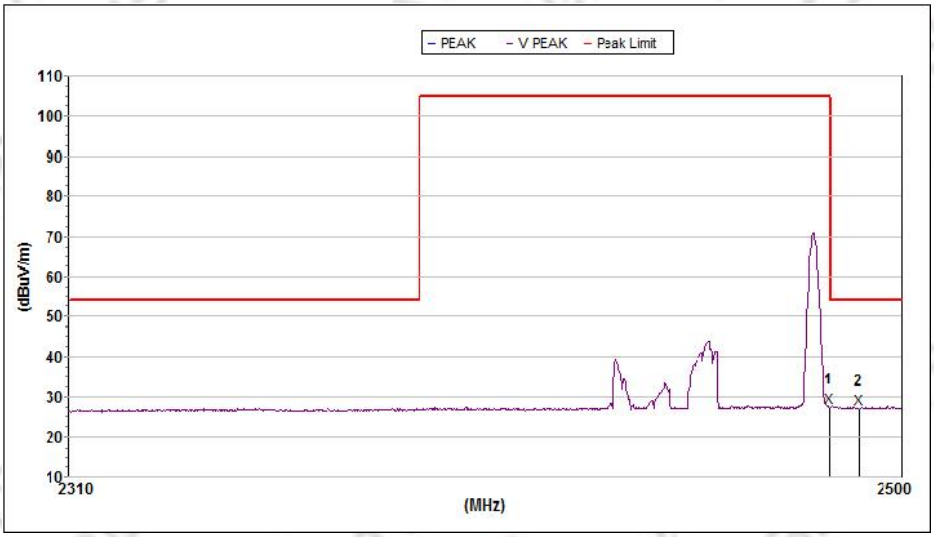
Test Mode: BLE 1M

Test Channel: Highest channel, Test Polarization: Horizontal



Mk.	Frequency	Level	Limit	Margin	Ant.F/G.	Amp.G.	Pol.
	(MHz)	(dBμV/m)	(dBμV/m)	(dB)	(dB/m)	(dB)	
AVG							
1	2483.600	27.2	54.0	26.8	27.6	54.1	H
2	2490.000	27.1	54.0	26.9	27.6	54.1	H

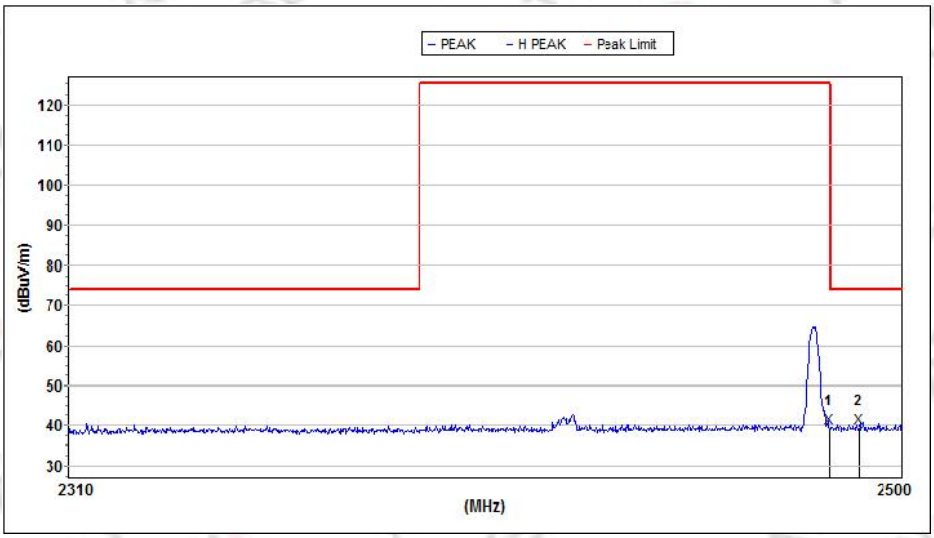
Test Channel: Highest channel, Test Polarization: Vertical



Mk.	Frequency	Level	Limit	Margin	Ant.F/G.	Amp.G.	Pol.
	(MHz)	(dBμV/m)	(dBμV/m)	(dB)	(dB/m)	(dB)	
AVG							
1	2483.600	27.3	54.0	26.7	27.6	54.1	V
2	2490.000	27.2	54.0	26.8	27.6	54.1	V

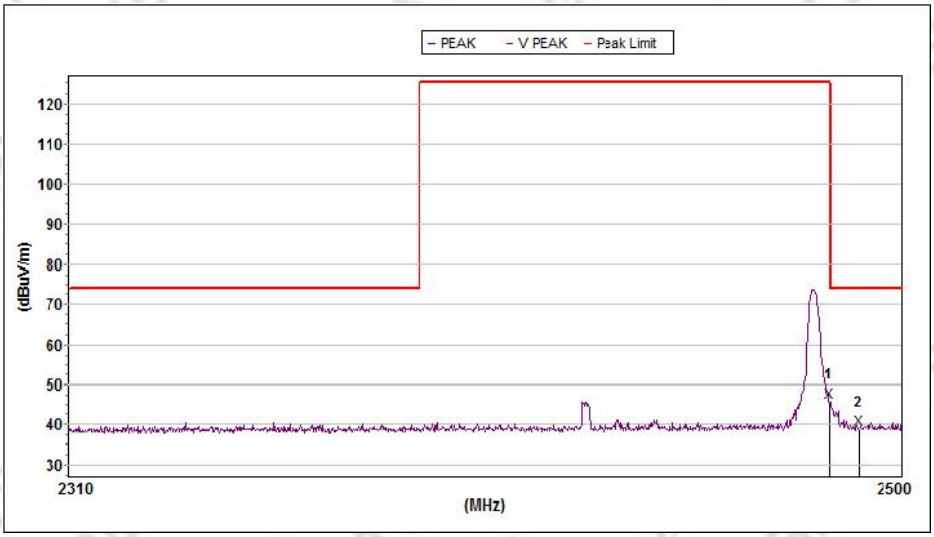
Test Mode: BLE 1M

Test Channel: Highest channel, Test Polarization: Horizontal



Mk.	Frequency	Level	Limit	Margin	Ant.F/G.	Amp.G.	Pol.
	(MHz)	(dBμV/m)	(dBμV/m)	(dB)	(dB/m)	(dB)	
PEAK							
1	2483.600	39.4	74.0	34.6	27.6	54.1	H
2	2490.000	39.6	74.0	34.4	27.6	54.1	H

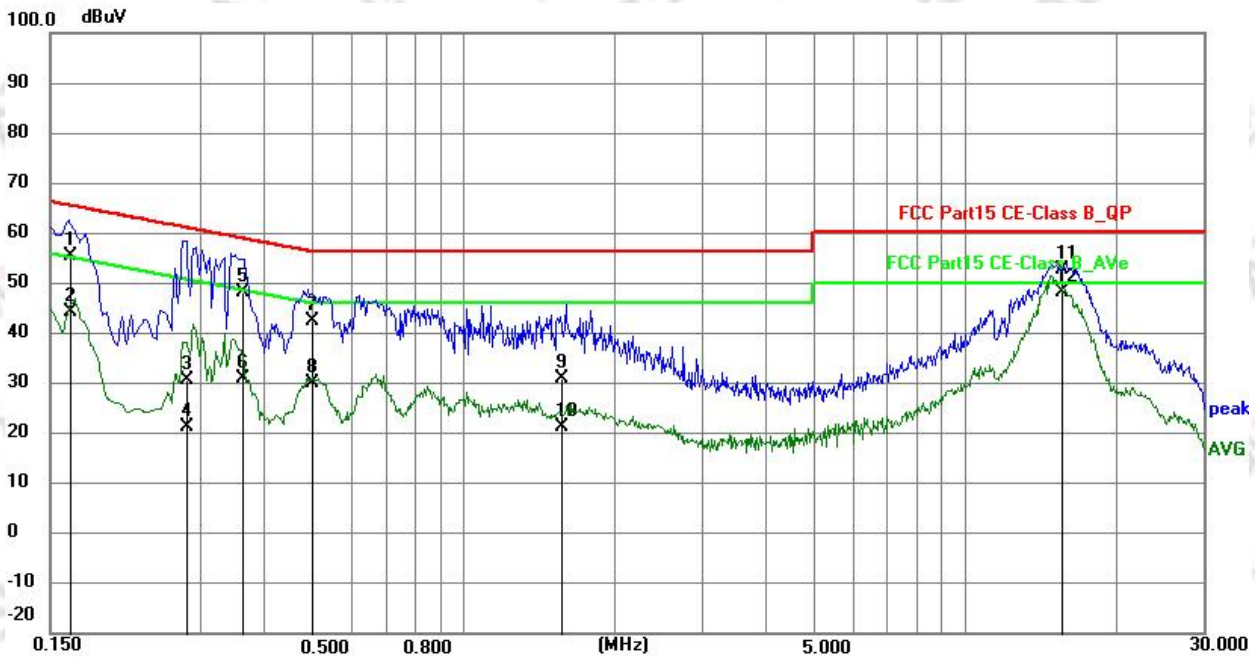
Test Channel: Highest channel, Test Polarization: Vertical



Mk.	Frequency	Level	Limit	Margin	Ant.F/G.	Amp.G.	Pol.
	(MHz)	(dBμV/m)	(dBμV/m)	(dB)	(dB/m)	(dB)	
PEAK							
1	2483.600	45.8	74.0	28.2	27.6	54.1	V
2	2490.000	38.9	74.0	35.1	27.6	54.1	V

AC Power-Line Conducted Emission Test Data

Temperature:	23.1℃	Relative Humidity:	37%
Phase:	L	Test Mode:	Mode7
Test Voltage:	AC 120V/60Hz	Test Date:	2025.07.15

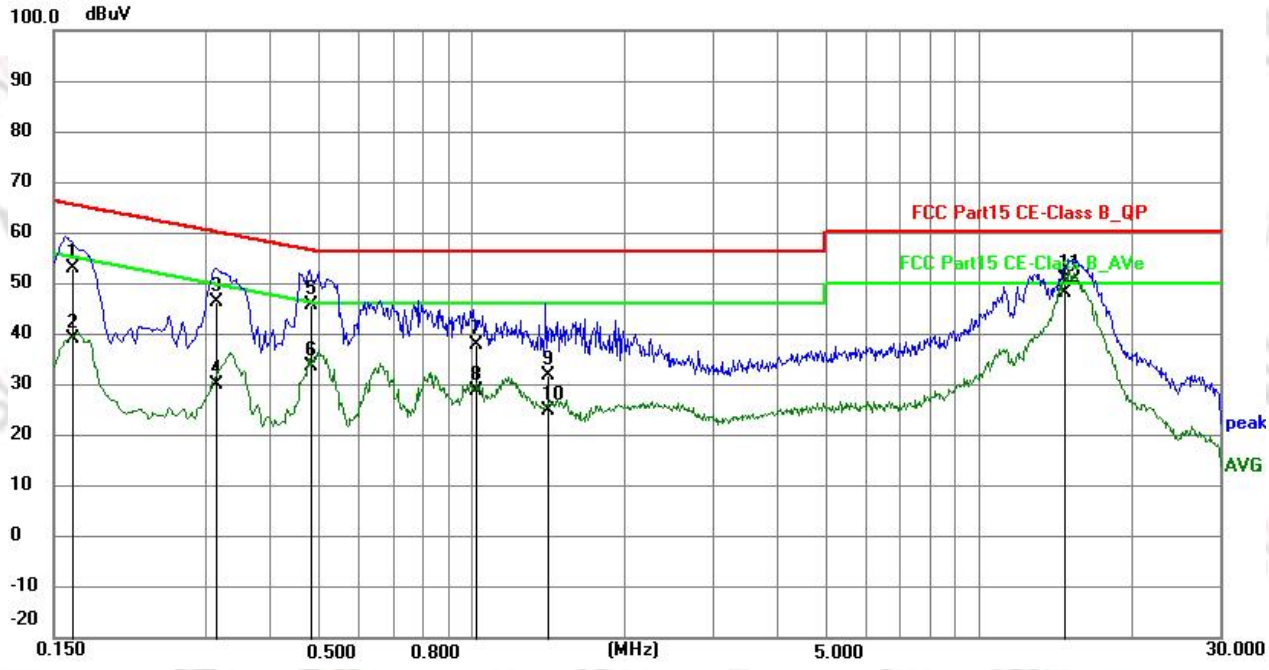


No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1650	44.64	10.63	55.27	65.21	-9.94	QP
2	0.1650	33.61	10.63	44.24	55.21	-10.97	AVG
3	0.2810	20.07	10.53	30.60	60.79	-30.19	QP
4	0.2810	10.88	10.53	21.41	50.79	-29.38	AVG
5	0.3630	37.66	10.47	48.13	58.66	-10.53	QP
6	0.3630	20.41	10.47	30.88	48.66	-17.78	AVG
7	0.4990	32.16	10.39	42.55	56.02	-13.47	QP
8	0.4990	19.72	10.39	30.11	46.02	-15.91	AVG
9	1.5690	20.52	10.45	30.97	56.00	-25.03	QP
10	1.5690	10.85	10.45	21.30	46.00	-24.70	AVG
11	15.5630	40.14	12.43	52.57	60.00	-7.43	QP
12	15.5630	35.85	12.43	48.28	50.00	-1.72	AVG

Remark:

1. Margin = Result (Result =Reading + Factor)–Limit
2. Factor= Cable Loss +Antenna Factor-Amplifier Gain

Temperature:	23.1℃	Relative Humidity:	37%
Phase:	N	Test Mode:	Mode7
Test Voltage:	AC 120V/60Hz	Test Date:	2025.07.15



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1630	42.39	10.62	53.01	65.31	-12.30	QP
2	0.1630	28.39	10.62	39.01	55.31	-16.30	AVG
3	0.3140	35.75	10.50	46.25	59.86	-13.61	QP
4	0.3140	19.58	10.50	30.08	49.86	-19.78	AVG
5	0.4820	35.32	10.39	45.71	56.30	-10.59	QP
6	0.4820	23.40	10.39	33.79	46.30	-12.51	AVG
7	1.0180	27.50	10.40	37.90	56.00	-18.10	QP
8	1.0180	18.50	10.40	28.90	46.00	-17.10	AVG
9	1.4120	21.44	10.43	31.87	56.00	-24.13	QP
10	1.4120	14.47	10.43	24.90	46.00	-21.10	AVG
11	14.7840	38.47	12.36	50.83	60.00	-9.17	QP
12	14.7840	35.94	12.36	48.30	50.00	-1.70	AVG

Remark:

1. Margin = Result (Result =Reading + Factor)–Limit
2. Factor= Cable Loss +Antenna Factor-Amplifier Gain

.※※※※※END OF THE Appendix A※※※※※