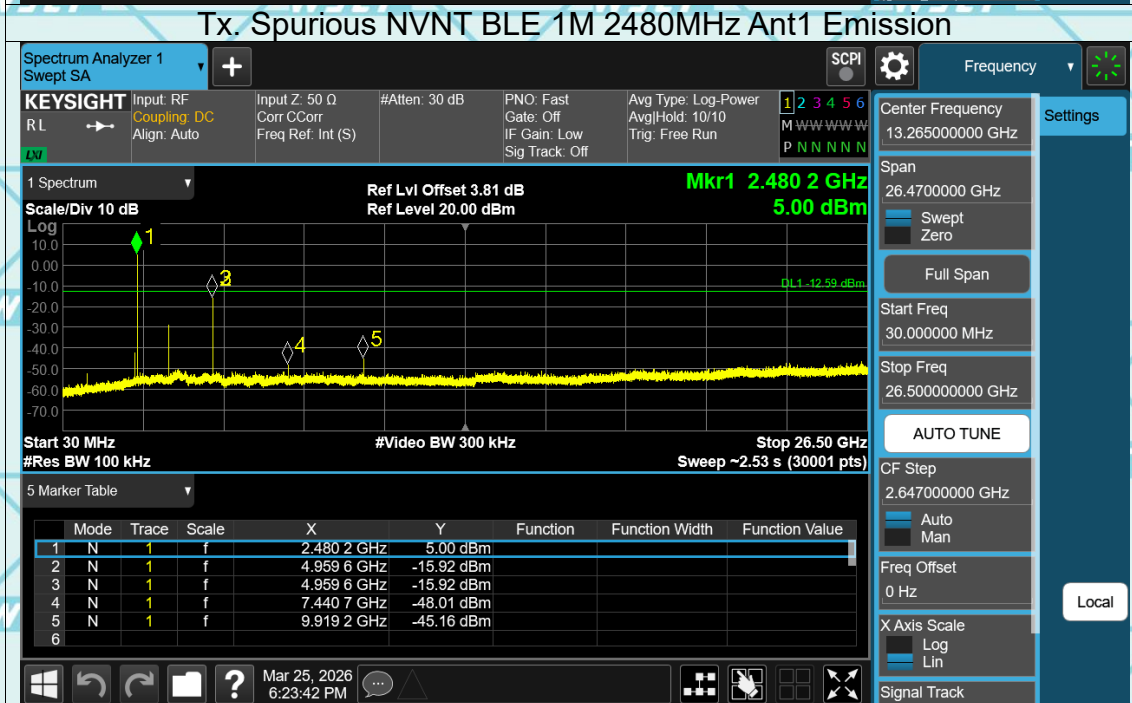
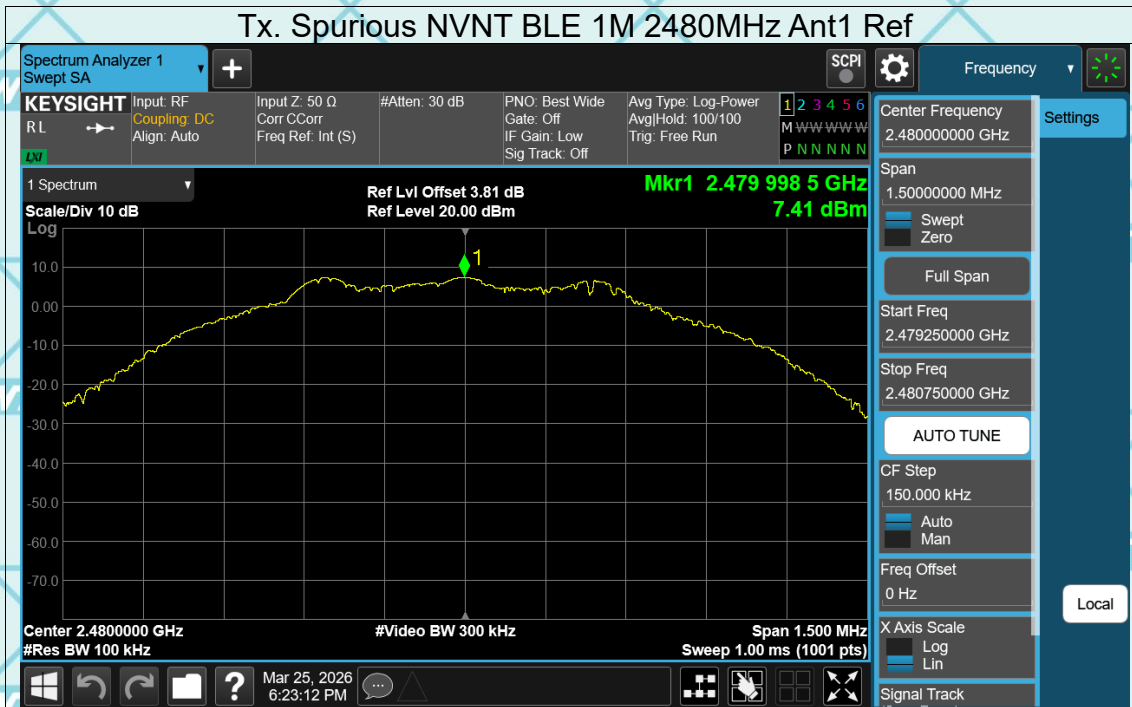
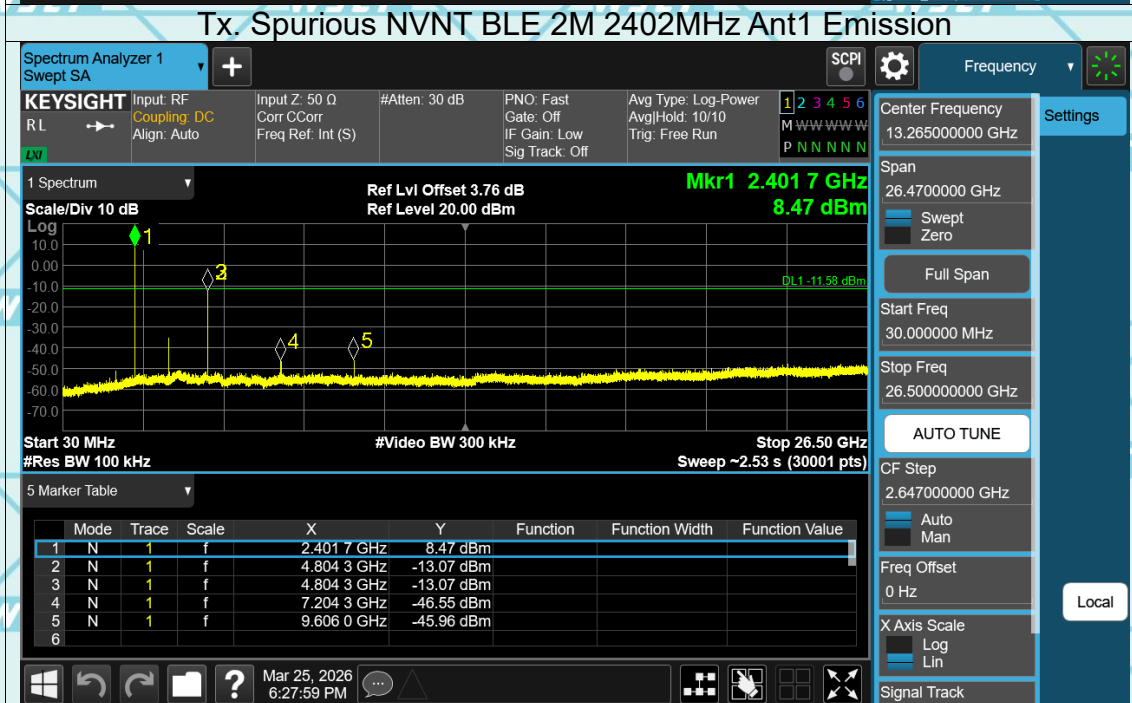
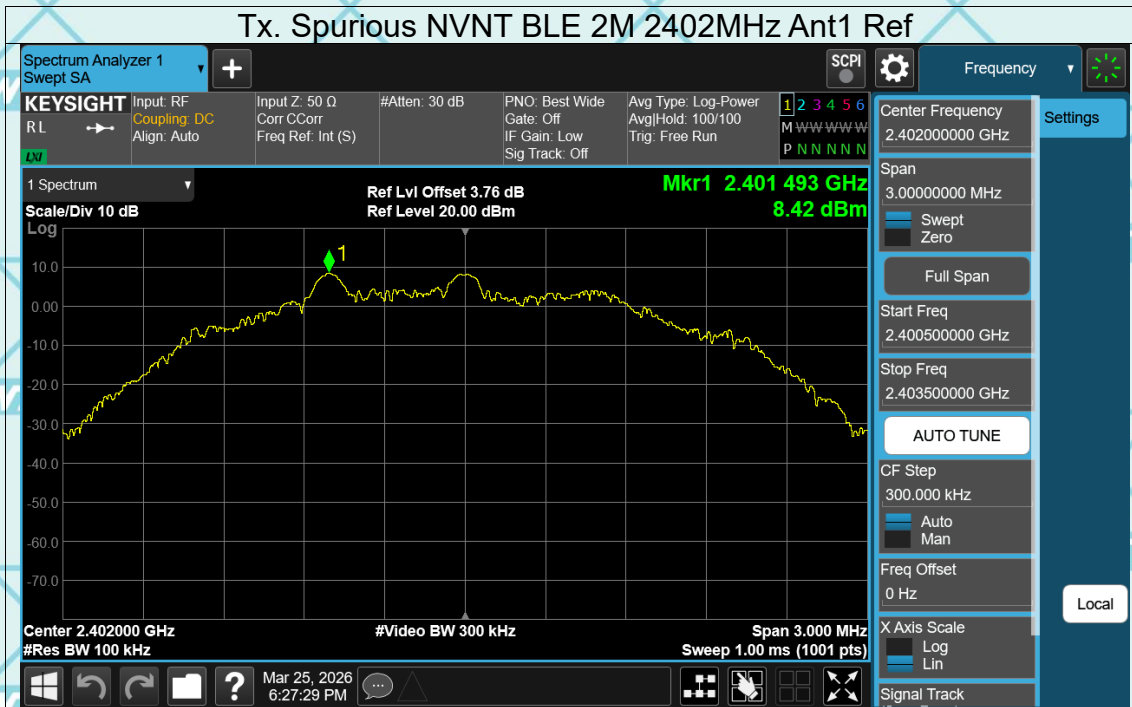
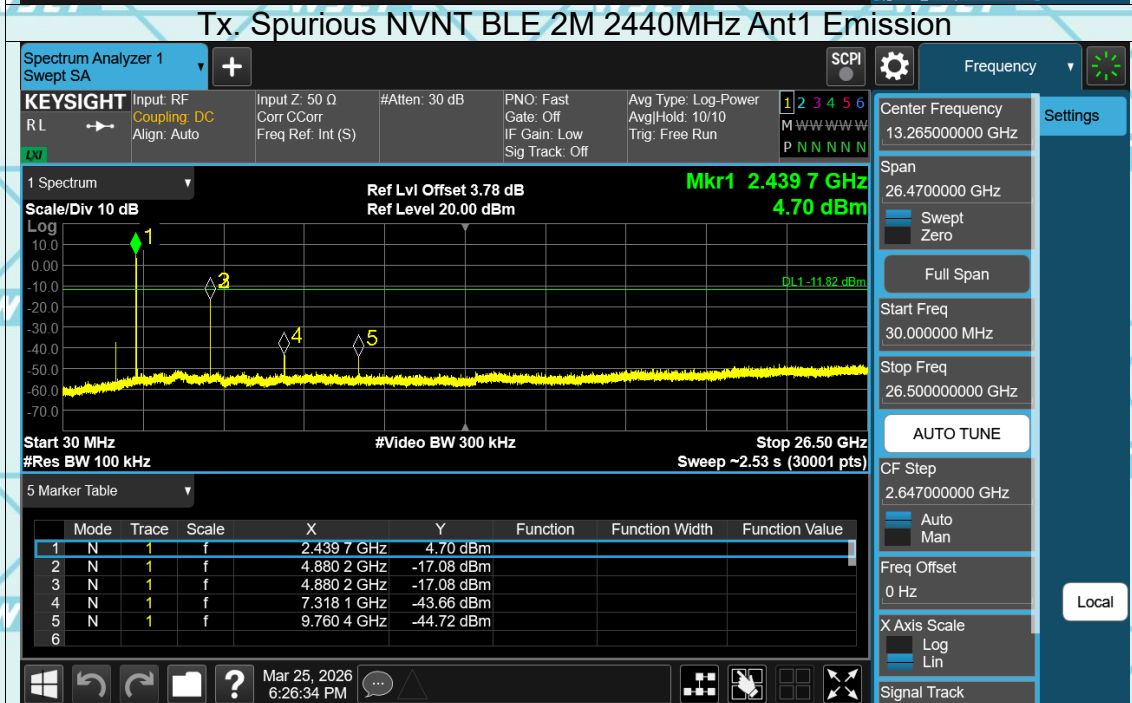
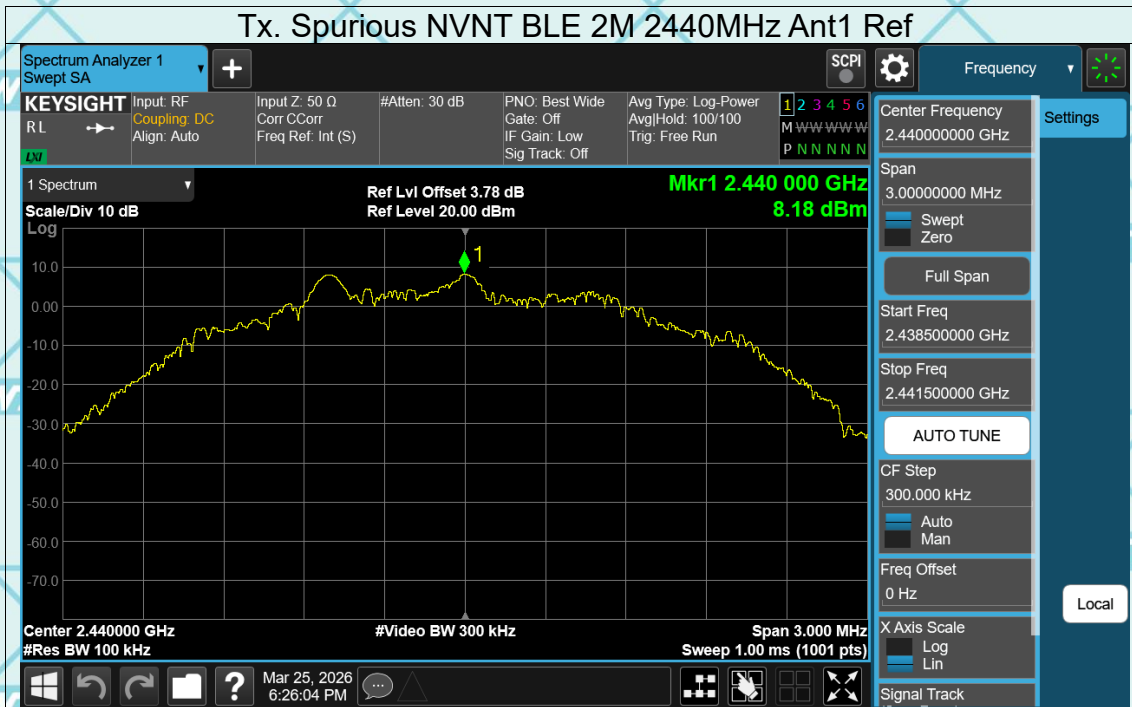
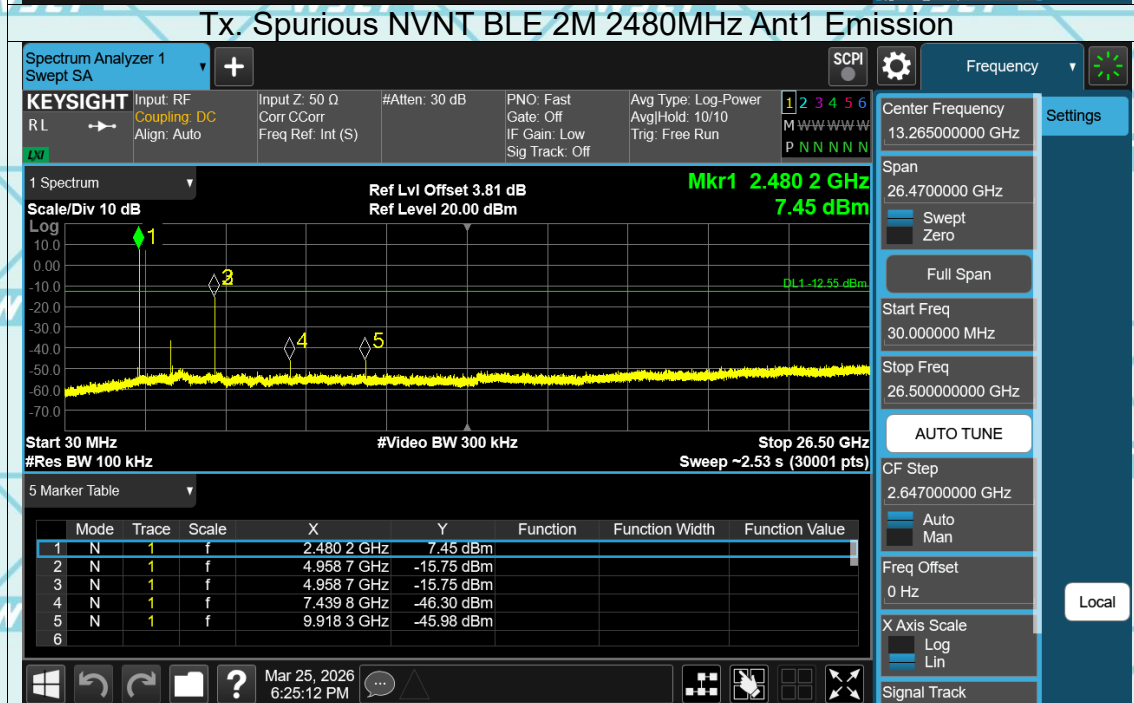
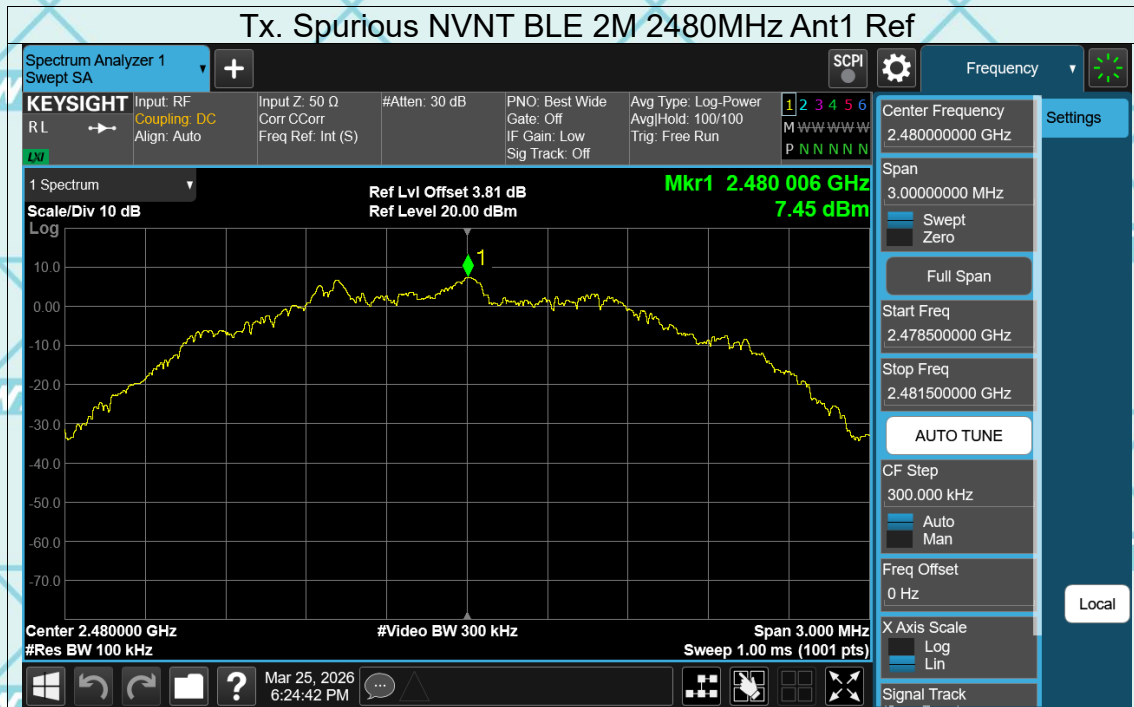


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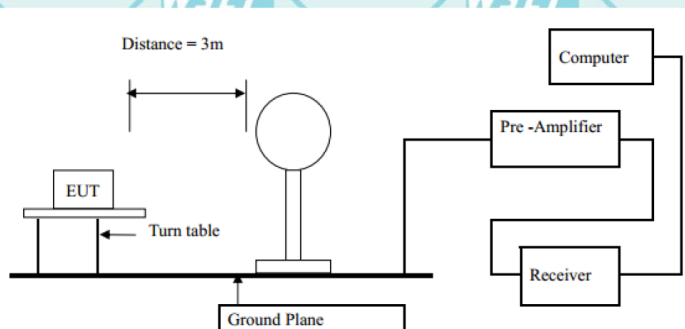


6.7. Radiated Spurious Emission Measurement

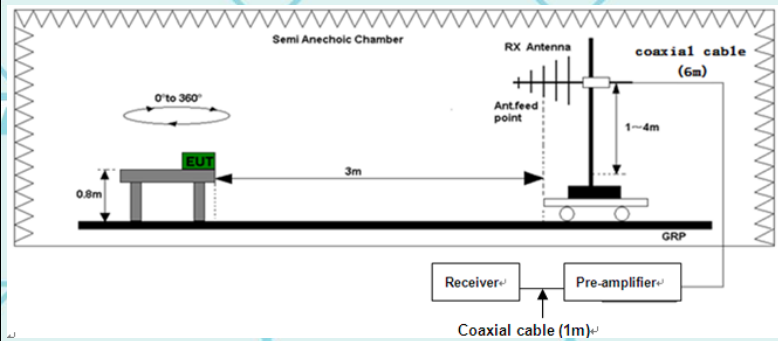
6.7.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.209			
Test Method:	ANSI C63.10:2020			
Frequency Range:	9 kHz to 25 GHz			
Measurement Distance:	3 m			
Antenna Polarization:	Horizontal & Vertical			
Operation mode:	Refer to item 4.1			
Receiver Setup:	Frequency	Detector	RBW	VBW
	9kHz- 150kHz	Quasi-peak	200Hz	1kHz
	150kHz- 30MHz	Quasi-peak	9kHz	30kHz
	30MHz-1GHz	Quasi-peak	100KHz	300KHz
	Above 1GHz	Peak	1MHz	3MHz
Limit:	Frequency	Field Strength (microvolts/meter)	Measurement Distance (meters)	Remark
	0.009-0.490	2400/F(KHz)	300	Quasi-peak Value
	0.490-1.705	24000/F(KHz)	30	Quasi-peak Value
	1.705-30	30	30	Quasi-peak Value
	30-88	100	3	Quasi-peak Value
Test setup:	Frequency	Field Strength (microvolts/meter)	Measurement Distance (meters)	Detector
	88-216	150	3	Average
	216-960	200	3	Peak
	Above 960	500	3	
	Above 1GHz	5000	3	

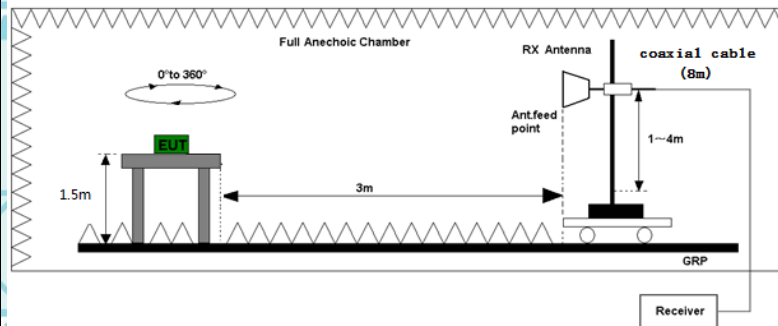
For radiated emissions below 30MHz



30MHz to 1GHz



Above 1GHz



Test Procedure:

- For the radiated emission test below 1GHz:
The EUT was placed on a turntable with 0.1 meter above ground. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high PASS filter are used for the test in order to get better signal level.
For the radiated emission test above 1GHz:
Place the measurement antenna on a turntable with 1.5 meter above ground, which is away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
- Corrected Reading: Antenna Factor + Cable Loss +

	Read Level - Preamp Factor = Level 3. For measurement below 1GHz, If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported. 4. Use the following spectrum analyzer settings: (1) Span shall wide enough to fully capture the emission being measured; (2) Set RBW=100 kHz for $f < 1$ GHz; VBW $\geq$ RBW; Sweep = auto; Detector function = peak; Trace = max hold; (3) Set RBW = 1 MHz, VBW= 3MHz for $f \geq 1$ GHz for peak measurement. For average measurement: VBW = 10 Hz, when duty cycle is no less than 98 percent. VBW $\geq 1/T$, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
Test mode:	Refer to section 4.1 for details
Test results:	PASS

Note 1: The symbol of "--" in the table which means not application.

Note 2: For the test data above 1 GHz, According the ANSI C63.10-2013, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

Note 3: The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.

Note 4: The EUT is working in the Normal link mode below 1 GHz. All modes have been tested and normal link mode is worst.

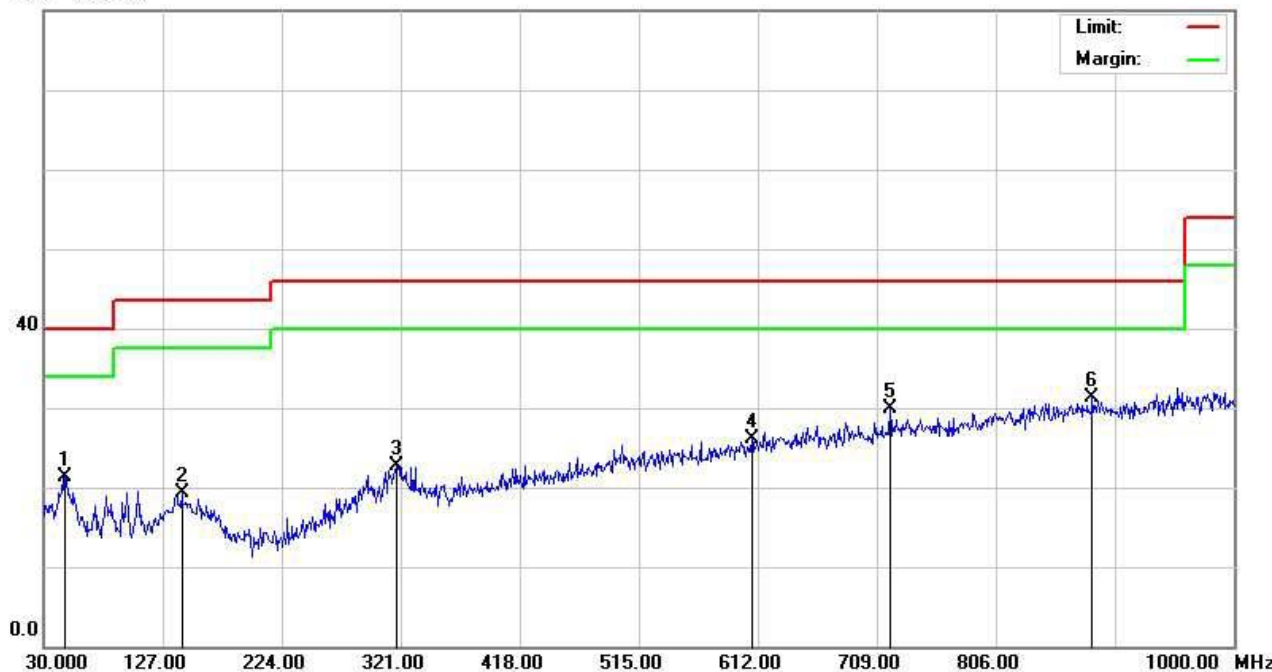
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6.7.2. Test Data

Please refer to following diagram for individual
Below 1GHz

Horizontal:

80.0 dBuV/m



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		48.4300	31.22	-7.57	23.65	40.00	-16.35	QP
2		147.3700	27.03	-6.71	20.32	43.50	-23.18	QP
3		309.3599	30.47	-6.33	24.14	46.00	-21.86	QP
4		506.2700	26.97	-0.80	26.17	46.00	-19.83	QP
5		791.4500	24.91	4.62	29.53	46.00	-16.47	QP
6	*	948.5900	25.47	7.27	32.74	46.00	-13.26	QP

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Vertical:



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		42.6100	43.87	-20.51	23.36	40.00	-16.64	QP
2		76.5600	45.57	-20.23	25.34	40.00	-14.66	QP
3		277.3500	39.61	-19.36	20.25	46.00	-25.75	QP
4		510.1500	43.32	-18.21	25.11	46.00	-20.89	QP
5		737.1300	46.64	-17.00	29.64	46.00	-16.36	QP
6	*	908.8200	47.94	-15.90	32.04	46.00	-13.96	QP

Note1:

Freq. = Emission frequency in MHz

Reading level (dBuV) = Receiver reading

Corr. Factor (dB) = Antenna factor + Cable loss - Amplifier factor.

Measurement (dBuV) = Reading level (dBuV) + Corr. Factor (dB)

Limit (dBuV) = Limit stated in standard

Margin (dB) = Measurement (dBuV) – Limits (dBuV)

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Above 1GHz

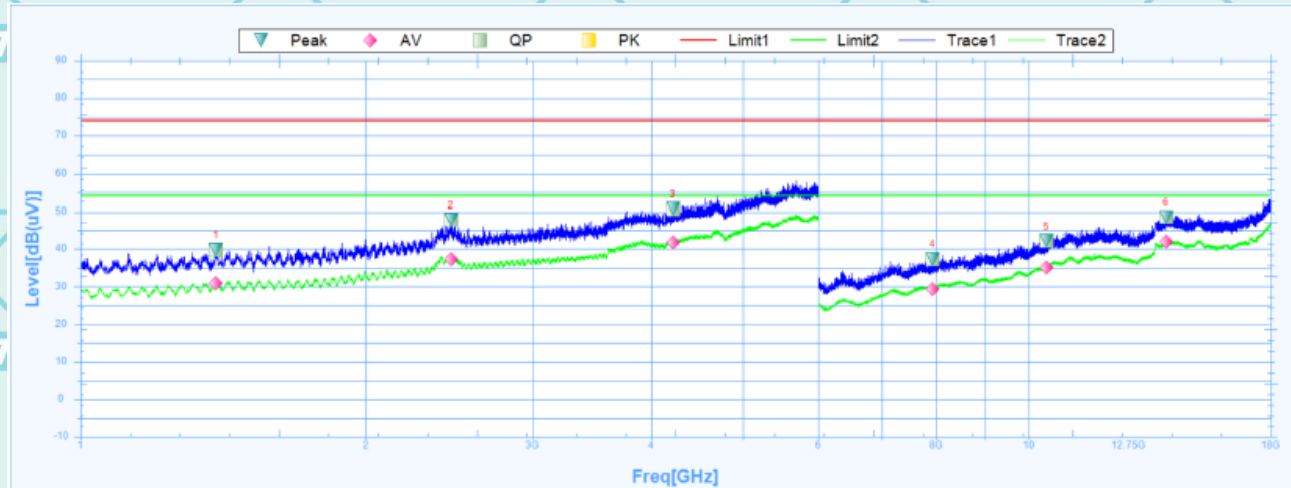
Note 1: The marked spikes near 2400 MHz with circle should be ignored because they are Fundamental signal.

Note 2: The spurious above 18G is noise only, do not show on the report.

Note 3 BLE 1M and 2M both tested the report and only recorded the worst-case scenario 1M:

Low channel: 2402MHz

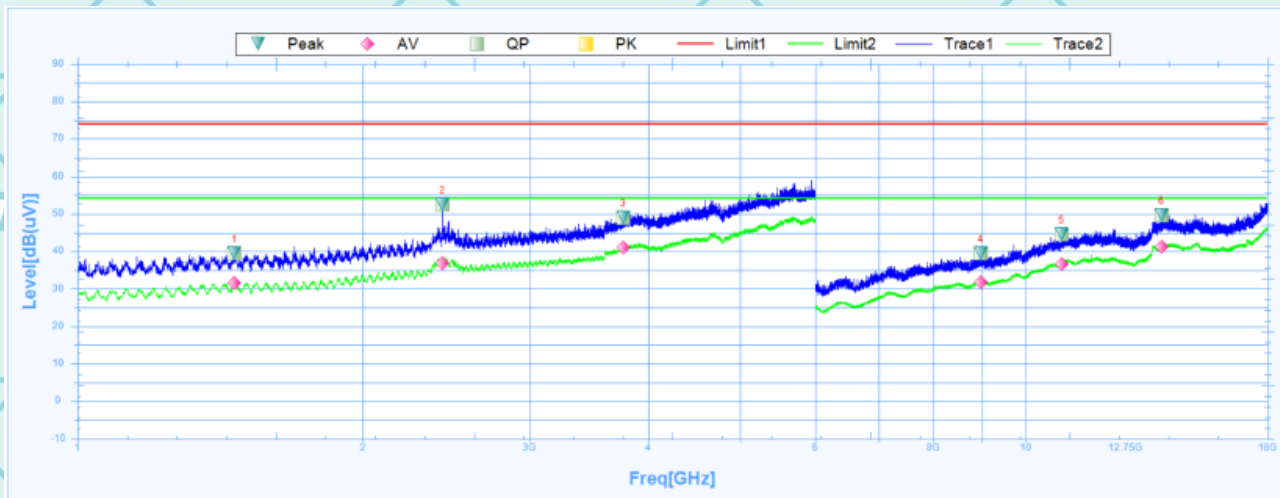
Horizontal:

**Susputed Data List**

NO.	Freq. [MHz]	Level [dB(uV)]	Factor [dB]	Reading [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	1390.0000	39.81	25.06	14.75	74	-34.19	32.7	Horizontal	PK	Pass
1	1390.0000	30.96	25.06	5.9	54	-23.04	32.7	Horizontal	AV	Pass
2	2458.7500	47.88	27.46	20.42	74	-26.12	133.1	Horizontal	PK	Pass
2	2458.7500	37.29	27.46	9.83	54	-16.71	133.1	Horizontal	AV	Pass
3	4217.5000	50.67	30.09	20.58	74	-23.33	360	Horizontal	PK	Pass
3	4217.5000	41.66	30.09	11.57	54	-12.34	360	Horizontal	AV	Pass
4	7923.0000	37.38	8.05	29.33	74	-36.62	345	Horizontal	PK	Pass
4	7923.0000	29.35	8.05	21.3	54	-24.65	345	Horizontal	AV	Pass
5	10444.5000	42.08	13.73	28.35	74	-31.92	205.4	Horizontal	PK	Pass
5	10444.5000	35.07	13.73	21.34	54	-18.93	205.4	Horizontal	AV	Pass
6	13963.5000	48.58	19.02	29.56	74	-25.42	359	Horizontal	PK	Pass
6	13963.5000	41.83	19.02	22.81	54	-12.17	359	Horizontal	AV	Pass

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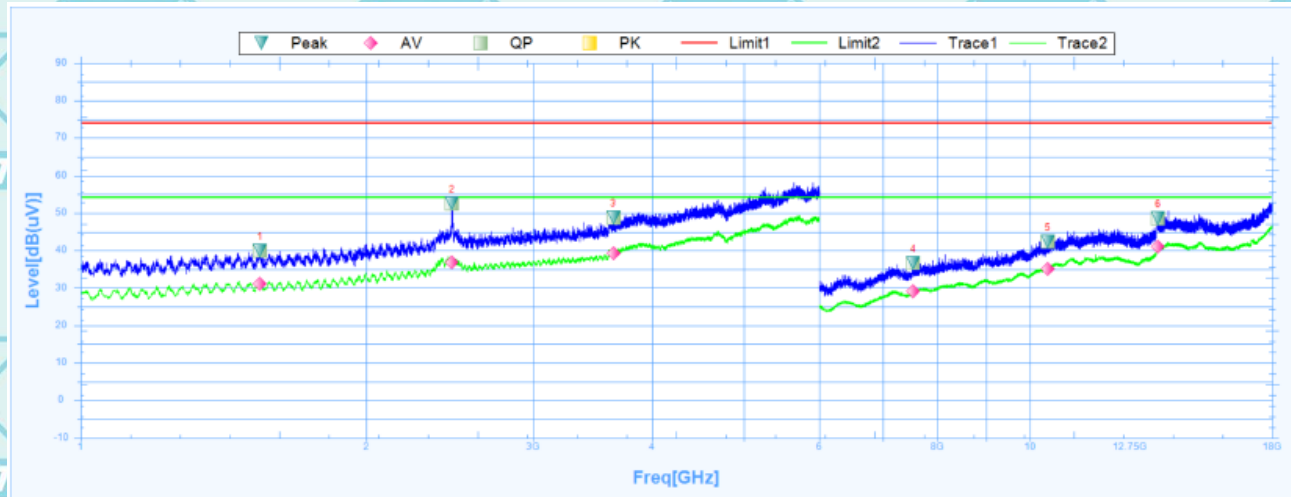
Vertical:



Suspected Data List

NO.	Freq. [MHz]	Level [dB(uV)]	Factor [dB]	Reading [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	1463.7500	39.48	25.04	14.44	74	-34.52	1.2	Vertical	PK	Pass
1	1463.7500	31.47	25.04	6.43	54	-22.53	1.2	Vertical	AV	Pass
2	2426.2500	52.5	27.35	25.15	74	-21.5	238.4	Vertical	PK	Pass
2	2426.2500	36.81	27.35	9.46	54	-17.19	238.4	Vertical	AV	Pass
3	3763.1250	49.08	29.13	19.95	74	-24.92	343.6	Vertical	PK	Pass
3	3763.1250	41.06	29.13	11.93	54	-12.94	343.6	Vertical	AV	Pass
4	8967.0000	39.46	9.83	29.63	74	-34.54	279.4	Vertical	PK	Pass
4	8967.0000	31.86	9.83	22.03	54	-22.14	279.4	Vertical	AV	Pass
5	10912.5000	44.58	15.13	29.45	74	-29.42	0	Vertical	PK	Pass
5	10912.5000	36.66	15.13	21.53	54	-17.34	0	Vertical	AV	Pass
6	13906.5000	49.67	18.85	30.82	74	-24.33	191	Vertical	PK	Pass
6	13906.5000	41.33	18.85	22.48	54	-12.67	191	Vertical	AV	Pass

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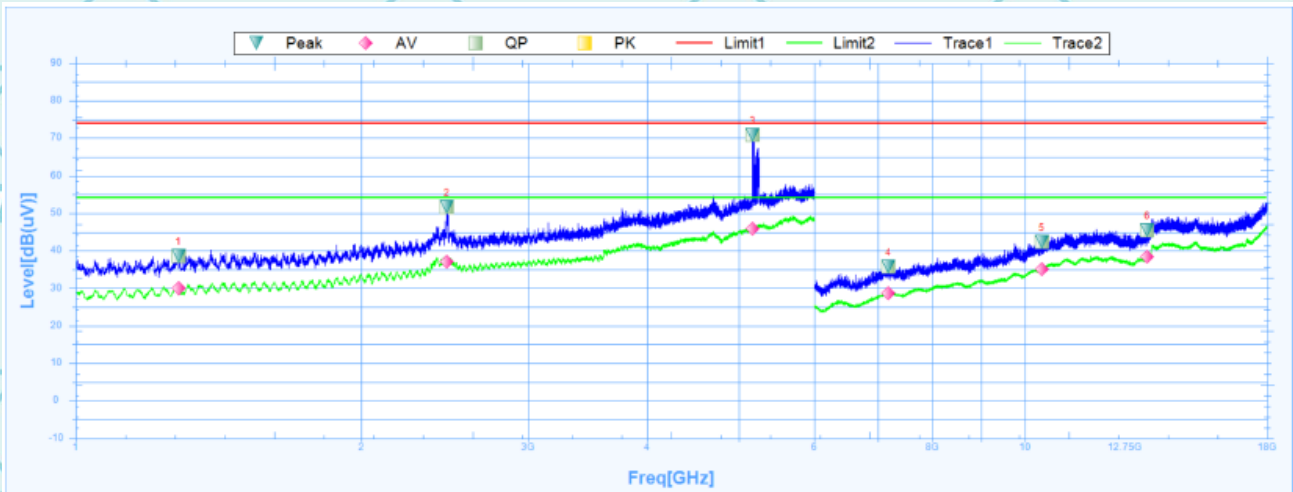
Middle channel: 2440MHz
Horizontal:

Suspected Data List

NO.	Freq. [MHz]	Level [dB(uV)]	Factor [dB]	Reading [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	1545.6250	40.02	24.95	15.07	74	-33.98	347	Horizontal	PK	Pass
1	1545.6250	31.08	24.95	6.13	54	-22.92	347	Horizontal	AV	Pass
2	2462.5000	52.49	27.47	25.02	74	-21.51	3	Horizontal	PK	Pass
2	2462.5000	36.77	27.47	9.3	54	-17.23	3	Horizontal	AV	Pass
3	3643.7500	48.74	28.84	19.9	74	-25.26	255.1	Horizontal	PK	Pass
3	3643.7500	39.34	28.84	10.5	54	-14.66	255.1	Horizontal	AV	Pass
4	7540.5000	36.55	7.68	28.87	74	-37.45	51	Horizontal	PK	Pass
4	7540.5000	29.01	7.68	21.33	54	-24.99	51	Horizontal	AV	Pass
5	10455.0000	42.37	13.77	28.6	74	-31.63	-0.1	Horizontal	PK	Pass
5	10455.0000	35.08	13.77	21.31	54	-18.92	-0.1	Horizontal	AV	Pass
6	13653.0000	48.46	18.13	30.33	74	-25.54	315.3	Horizontal	PK	Pass
6	13653.0000	40.96	18.13	22.83	54	-13.04	315.3	Horizontal	AV	Pass

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Vertical:



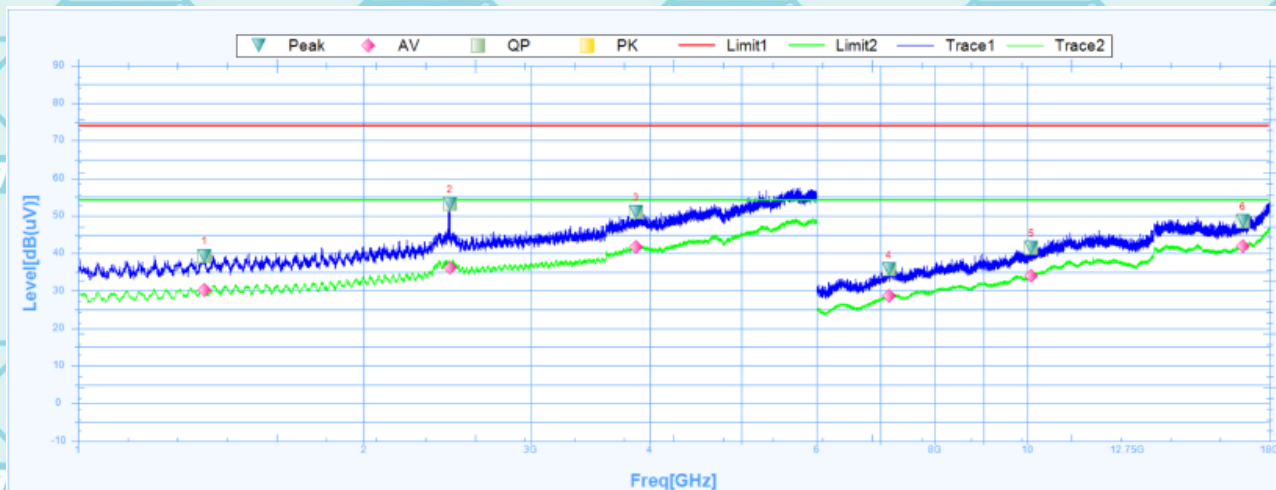
Suspected Data List

NO.	Freq. [MHz]	Level [dB(uV)]	Factor [dB]	Reading [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	1283.7500	38.58	24.69	13.89	74	-35.42	329.2	Vertical	PK	Pass
1	1283.7500	30.03	24.69	5.34	54	-23.97	329.2	Vertical	AV	Pass
2	2461.8750	51.65	27.47	24.18	74	-22.35	207.3	Vertical	PK	Pass
2	2461.8750	37.15	27.47	9.68	54	-16.85	207.3	Vertical	AV	Pass
3	5171.8750	70.79	31.74	39.05	74	-3.21	360	Vertical	PK	Pass
3	5171.8750	45.97	31.74	14.23	54	-8.03	360	Vertical	AV	Pass
4	7183.5000	35.79	7.03	28.76	74	-38.21	338.9	Vertical	PK	Pass
4	7183.5000	28.77	7.03	21.74	54	-25.23	338.9	Vertical	AV	Pass
5	10425.0000	42.3	13.67	28.63	74	-31.7	0	Vertical	PK	Pass
5	10425.0000	35.16	13.67	21.49	54	-18.84	0	Vertical	AV	Pass
6	13459.5000	45.43	17.55	27.88	74	-28.57	197	Vertical	PK	Pass
6	13459.5000	38.31	17.55	20.76	54	-15.69	197	Vertical	AV	Pass

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High channel: 2480MHz

Horizontal:

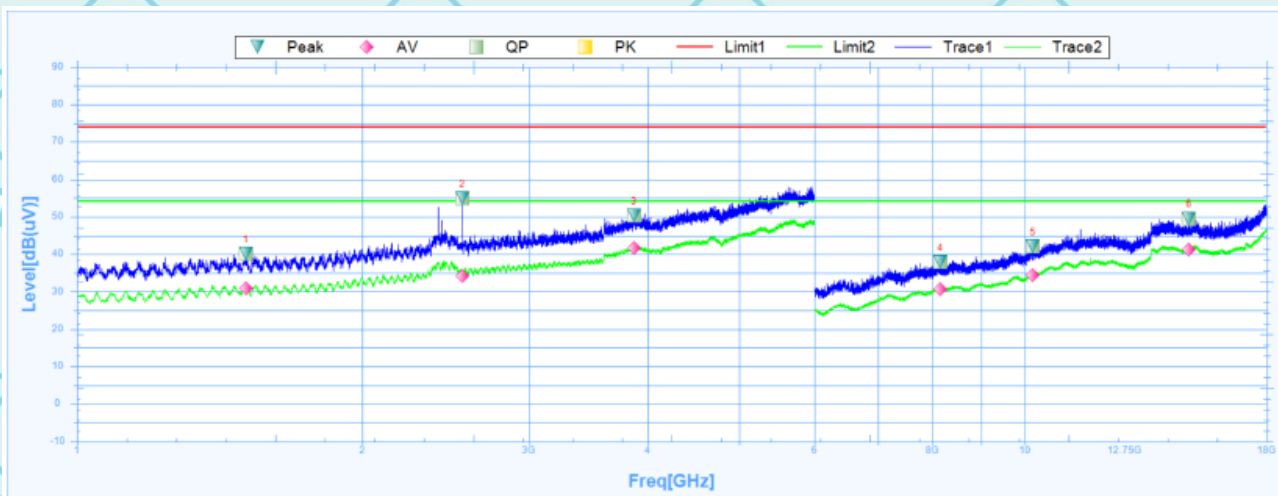


Suspected Data List

NO.	Freq. [MHz]	Level [dB(uV)]	Factor [dB]	Reading [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	1358.7500	39.38	24.96	14.42	74	-34.62	360.1	Horizontal	PK	Pass
1	1358.7500	30.18	24.96	5.22	54	-23.82	360.1	Horizontal	AV	Pass
2	2464.3750	53.28	27.48	25.8	74	-20.72	183.4	Horizontal	PK	Pass
2	2464.3750	36.24	27.48	8.76	54	-17.76	183.4	Horizontal	AV	Pass
3	3873.7500	50.93	29.4	21.53	74	-23.07	185.8	Horizontal	PK	Pass
3	3873.7500	41.76	29.4	12.36	54	-12.24	185.8	Horizontal	AV	Pass
4	7146.0000	35.65	6.94	28.71	74	-38.35	359.4	Horizontal	PK	Pass
4	7146.0000	28.78	6.94	21.84	54	-25.22	359.4	Horizontal	AV	Pass
5	10105.5000	41.41	12.68	28.73	74	-32.59	152.8	Horizontal	PK	Pass
5	10105.5000	33.95	12.68	21.27	54	-20.05	152.8	Horizontal	AV	Pass
6	16867.5000	48.61	19.92	28.69	74	-25.39	321.4	Horizontal	PK	Pass
6	16867.5000	41.83	19.92	21.91	54	-12.17	321.4	Horizontal	AV	Pass

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Vertical:



Suspected Data List

NO.	Freq. [MHz]	Level [dB(uV)]	Factor [dB]	Reading [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	1507.5000	40.06	24.99	15.07	74	-33.94	331.5	Vertical	PK	Pass
1	1507.5000	30.89	24.99	5.9	54	-23.11	331.5	Vertical	AV	Pass
2	2551.2500	54.85	27.66	27.19	74	-19.15	4.2	Vertical	PK	Pass
2	2551.2500	34.21	27.66	6.55	54	-19.79	4.2	Vertical	AV	Pass
3	3872.5000	50.29	29.39	20.9	74	-23.71	1	Vertical	PK	Pass
3	3872.5000	41.67	29.39	12.28	54	-12.33	1	Vertical	AV	Pass
4	8149.5000	37.93	8.62	29.31	74	-36.07	48.7	Vertical	PK	Pass
4	8149.5000	30.55	8.62	21.93	54	-23.45	48.7	Vertical	AV	Pass
5	10206.0000	42.19	13	29.19	74	-31.81	7.1	Vertical	PK	Pass
5	10206.0000	34.38	13	21.38	54	-19.62	7.1	Vertical	AV	Pass
6	14910.0000	49.53	18.19	31.34	74	-24.47	317.7	Vertical	PK	Pass
6	14910.0000	41.35	18.19	23.16	54	-12.65	317.7	Vertical	AV	Pass

Note:

1. All emissions not reported were more than 20dB below the specified limit or in the noise floor.
2. Emission Level= Reading Level + Probe Factor +Cable Loss.
3. Data of measurement within this frequency range shown "--" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
4. EUT has been tested in unfolded states, and the report only reflects data in the unfolded state (worst-case scenario)

Note: Freq. = Emission frequency in MHz

Reading level (dBμV) = Receiver reading

Corr. Factor (dB) = Attenuation factor + Cable loss

Level (dBμV) = Reading level (dBμV) + Corr. Factor (dB)

Limit (dBμV) = Limit stated in standard

Margin (dB) = Level (dBμV) - Limits (dBμV)

6.7.3. Restricted Bands Requirements

Test result for GFSK Mode (the worst case)

Frequency	Reading	Correct Factor	Emission Level	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	H/V	
Low Channel							
2390	60.33	-8.76	51.57	74	22.43	H	PK
2390	53.10	-8.76	44.34	54	9.66	H	AV
2390	61.24	-8.73	52.51	74	21.49	V	PK
2390	54.72	-8.73	45.99	54	8.01	V	AV
High Channel							
2483.5	64.52	-8.17	56.35	74	17.65	H	PK
2483.5	54.89	-8.17	46.72	54	7.28	H	AV
2483.5	63.47	-8.17	55.30	74	18.70	V	PK
2483.5	54.73	-8.17	46.56	54	7.44	V	AV

Note: Freq. = Emission frequency in MHz

Reading level (dBuV) = Receiver reading

Corr. Factor (dB) = Attenuation factor + Cable loss

Level (dBuV) = Reading level (dBuV) + Corr. Factor (dB)

Limit (dBuV) = Limit stated in standard

Margin (dB) = Level (dBuV) - Limits (dBuV)

7. Test Setup Photographs

Please refer to Annex "Set Up Photos-15C" for test setup photos

*******END OF REPORT*******