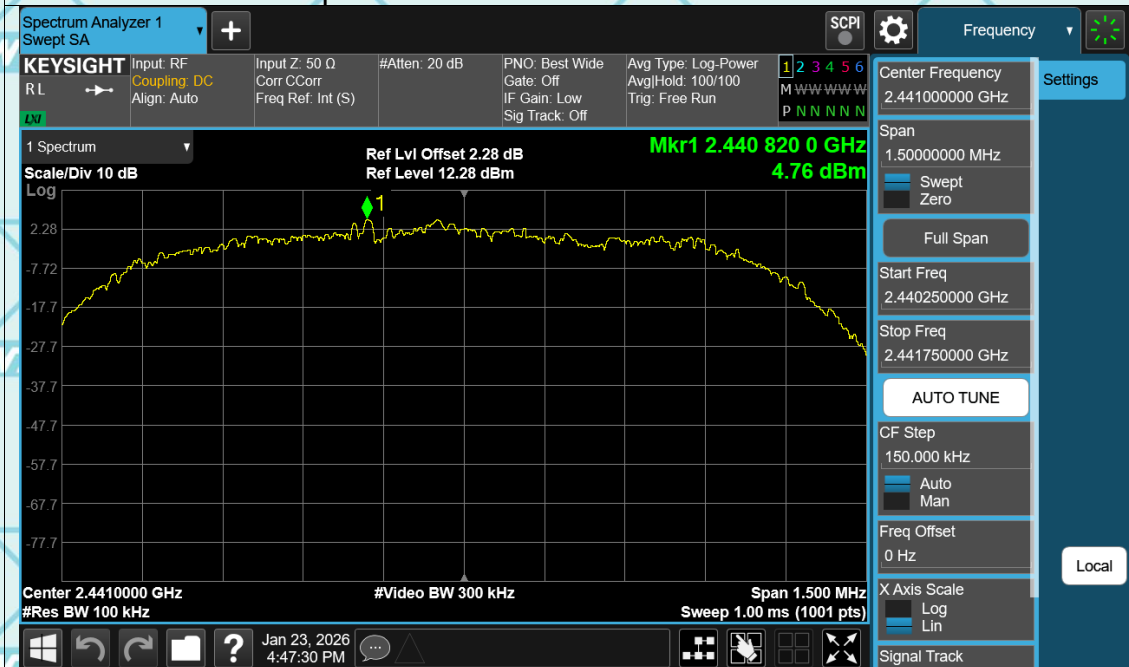
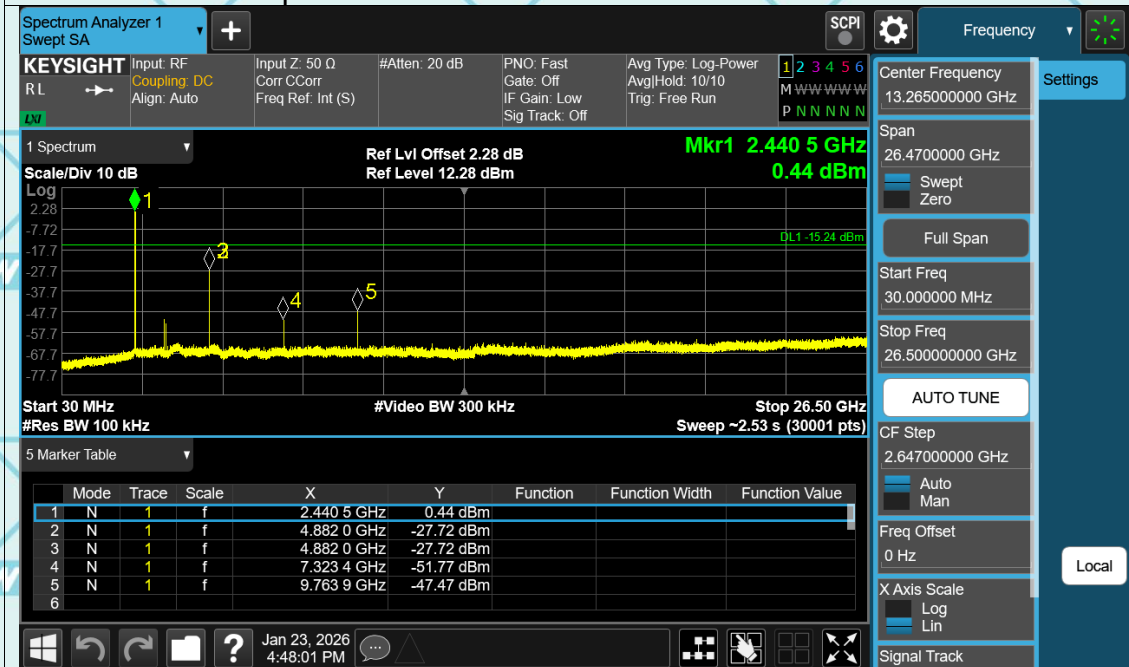


Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Emission

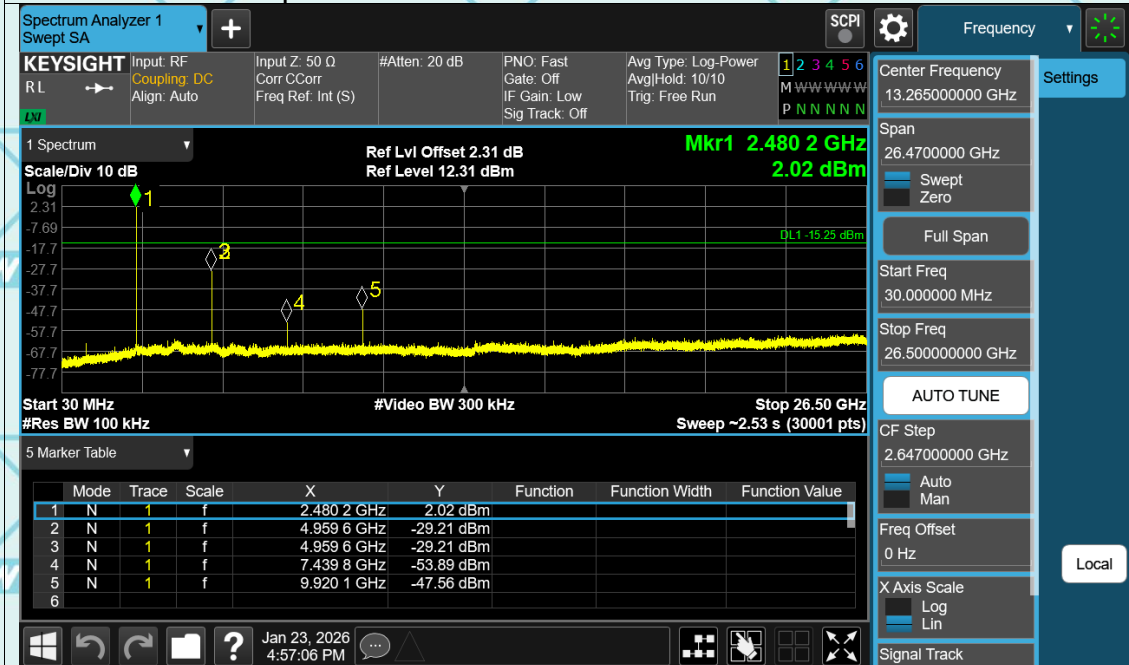


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Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref

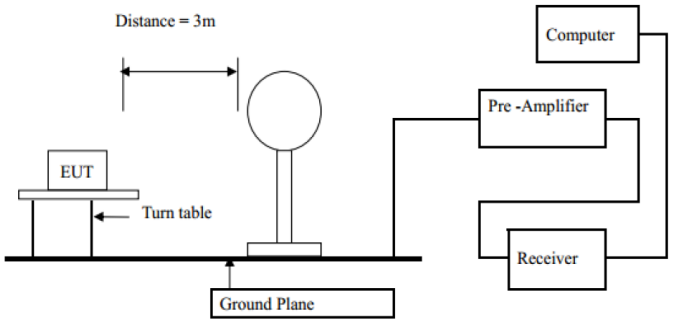


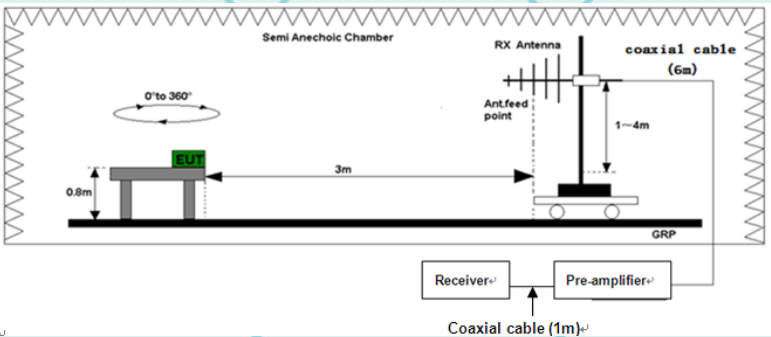
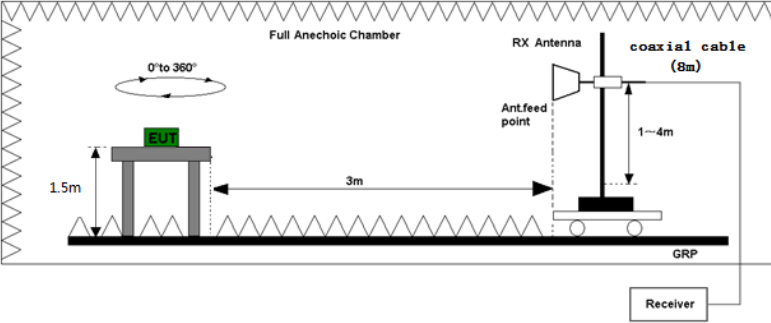
Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Emission



6.11. Radiated Spurious Emission Measurement

6.11.1. 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			
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:	88-216	150	3	Peak Value
	216-960	200	3	Average Value
	Above 960	500	3	
	Frequency	Field Strength (microvolts/meter)	Measurement Distance (meters)	Detector
	Above 1GHz	500	3	Average
		5000	3	Peak
For radiated emissions below 30MHz				
				
30MHz to 1GHz				

	 Above 1GHz 
Test Mode:	Transmitting mode with modulation
Test Procedure:	1. The testing follows the guidelines in Spurious Radiated Emissions of ANSI C63.10:2020 Measurement Guidelines. 2. For the radiated emission test below 1GHz: The EUT was placed on a turntable with 0.8 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. 3. Set to the maximum power setting and enable the EUT transmit continuously. 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, RBW=1MHz for $f > 1$GHz ; VBW$\geq$RBW; Sweep = auto; Detector function = peak; Trace = max hold for peak (3) For average measurement: use duty cycle correction factor method per 15.35(c). Duty cycle = On time/100 milliseconds On time = $N_1 \cdot L_1 + N_2 \cdot L_2 + \dots + N_{n-1} \cdot L_{n-1} + N_n \cdot L_n$ Where N_1 is number of type 1 pulses, L_1 is length of type 1 pulses, etc. Average Emission Level = Peak Emission Level + $20 \cdot \log(\text{Duty cycle})$ Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
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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6.11.2. Test Data

Please refer to following diagram for individual

Below 1GHz

Horizontal:



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		46.4900	32.95	-7.66	25.29	40.00	-14.71	QP
2		143.4900	26.82	-7.07	19.75	43.50	-23.75	QP
3		225.9400	30.64	-10.00	20.64	46.00	-25.36	QP
4		463.5900	29.85	-1.78	28.07	46.00	-17.93	QP
5		692.5100	27.34	2.86	30.20	46.00	-15.80	QP
6	*	895.2400	25.97	6.60	32.57	46.00	-13.43	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		80.4400	45.14	-20.19	24.95	40.00	-15.05	QP
2		142.5200	40.11	-19.98	20.13	43.50	-23.37	QP
3		460.6800	48.22	-18.46	29.76	46.00	-16.24	QP
4		571.2600	48.03	-17.89	30.14	46.00	-15.86	QP
5	*	847.7100	47.56	-16.33	31.23	46.00	-14.77	QP
6		977.6900	49.15	-15.42	33.73	54.00	-20.27	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

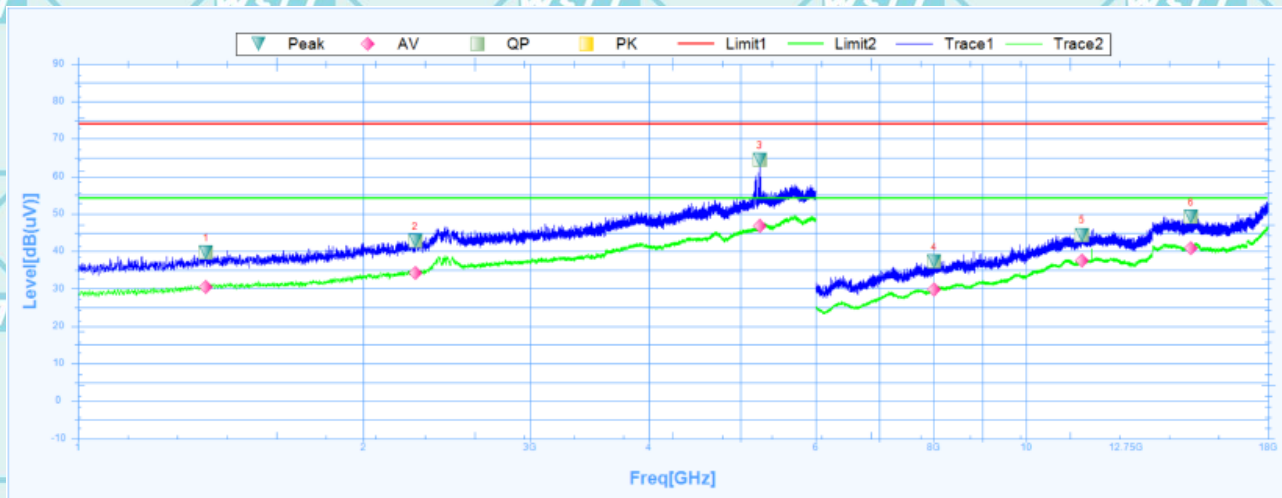
Note 1: The marked spikes near 2400 MHz with circle should be ignored because they are Fundamental signal.

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

8DPSK

Low channel: 2402MHz

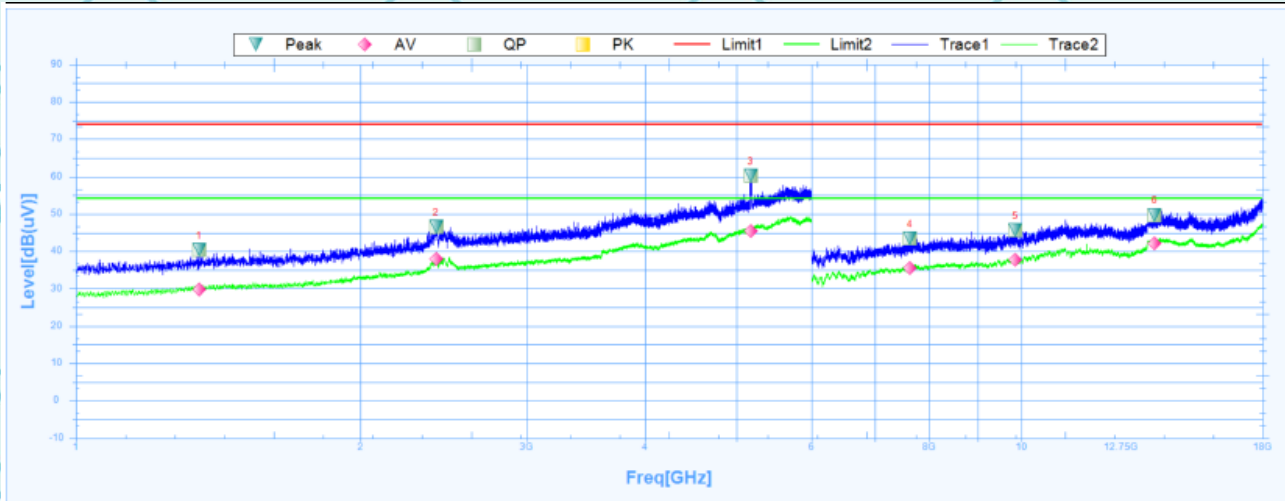
Horizontal:

**Susputed Data List**

NO.	Freq. [MHz]	Level [dB(uV)]	Factor [dB]	Reading [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	1364.3750	39.66	24.98	14.68	74	-34.34	341.8	Horizontal	PK	Pass
1	1364.3750	30.52	24.98	5.54	54	-23.48	341.8	Horizontal	AV	Pass
2	2268.7500	42.71	26.81	15.9	74	-31.29	240	Horizontal	PK	Pass
2	2268.7500	34.12	26.81	7.31	54	-19.88	240	Horizontal	AV	Pass
3	5240.6250	64.41	31.79	32.62	74	-9.59	244.8	Horizontal	PK	Pass
3	5240.6250	46.87	31.79	15.08	54	-7.13	244.8	Horizontal	AV	Pass
4	8001.0000	37.3	8.28	29.02	74	-36.7	154.7	Horizontal	PK	Pass
4	8001.0000	29.88	8.28	21.6	54	-24.12	154.7	Horizontal	AV	Pass
5	11455.5000	44.45	16	28.45	74	-29.55	90.2	Horizontal	PK	Pass
5	11455.5000	37.41	16	21.41	54	-16.59	90.2	Horizontal	AV	Pass
6	14934.0000	49.15	18.33	30.82	74	-24.85	360.1	Horizontal	PK	Pass
6	14934.0000	40.78	18.33	22.45	54	-13.22	360.1	Horizontal	AV	Pass

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Vertical:



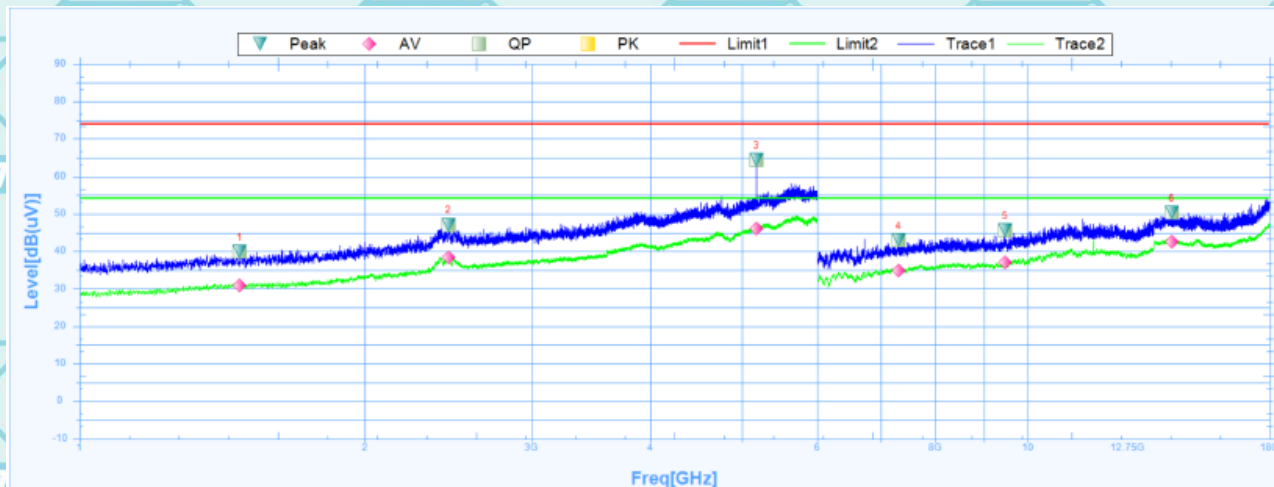
Suspected Data List

NO.	Freq. [MHz]	Level [dB(uV)]	Factor [dB]	Reading [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	1349.3750	40.35	24.92	15.43	74	-33.65	22.5	Vertical	PK	Pass
1	1349.3750	29.81	24.92	4.89	54	-24.19	22.5	Vertical	AV	Pass
2	2404.3750	46.47	27.27	19.2	74	-27.53	198.2	Vertical	PK	Pass
2	2404.3750	38.01	27.27	10.74	54	-15.99	198.2	Vertical	AV	Pass
3	5175.0000	60.22	31.74	28.48	74	-13.78	311.8	Vertical	PK	Pass
3	5175.0000	45.56	31.74	13.82	54	-8.44	311.8	Vertical	AV	Pass
4	7627.5000	43.44	7.95	35.49	74	-30.56	91.4	Vertical	PK	Pass
4	7627.5000	35.59	7.95	27.64	54	-18.41	91.4	Vertical	AV	Pass
5	9862.5000	45.68	12.05	33.63	74	-28.32	98.6	Vertical	PK	Pass
5	9862.5000	37.78	12.05	25.73	54	-16.22	98.6	Vertical	AV	Pass
6	13837.5000	49.76	18.65	31.11	74	-24.24	118.9	Vertical	PK	Pass
6	13837.5000	42.24	18.65	23.59	54	-11.76	118.9	Vertical	AV	Pass

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Middle channel: 2441MHz

Horizontal:

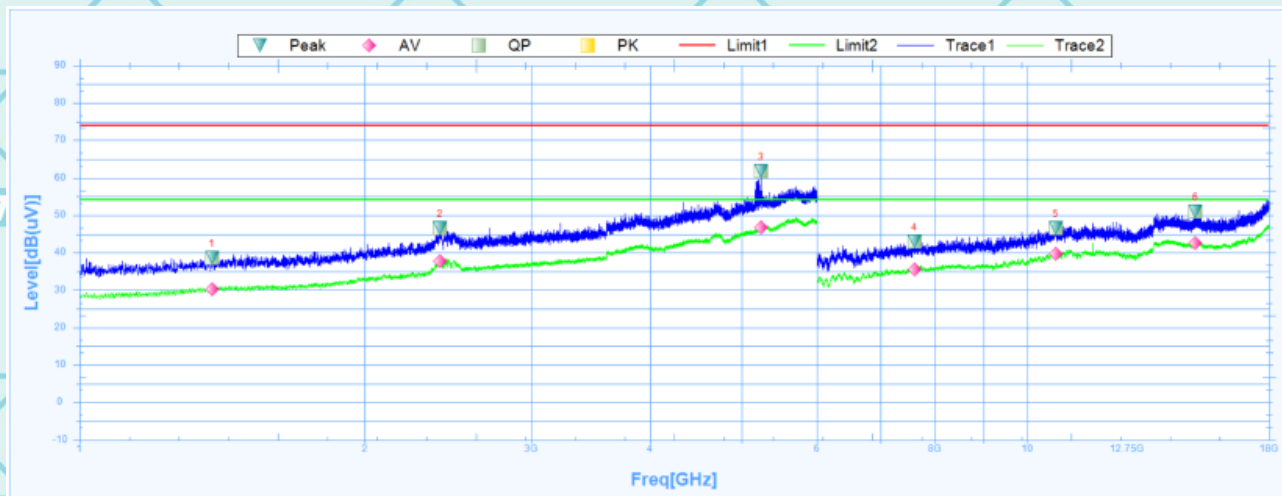


Suspected Data List

NO.	Freq. [MHz]	Level [dB(uV)]	Factor [dB]	Reading [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	1475.0000	39.94	25.02	14.92	74	-34.06	359.5	Horizontal	PK	Pass
1	1475.0000	30.79	25.02	5.77	54	-23.21	359.5	Horizontal	AV	Pass
2	2449.3750	47.11	27.43	19.68	74	-26.89	249.6	Horizontal	PK	Pass
2	2449.3750	38.44	27.43	11.01	54	-15.56	249.6	Horizontal	AV	Pass
3	5178.7500	64.38	31.74	32.64	74	-9.62	329.7	Horizontal	PK	Pass
3	5178.7500	46.23	31.74	14.49	54	-7.77	329.7	Horizontal	AV	Pass
4	7309.5000	43.06	6.85	36.21	74	-30.94	355.9	Horizontal	PK	Pass
4	7309.5000	34.95	6.85	28.1	54	-19.05	355.9	Horizontal	AV	Pass
5	9471.0000	45.66	11.08	34.58	74	-28.34	101	Horizontal	PK	Pass
5	9471.0000	37.13	11.08	26.05	54	-16.87	101	Horizontal	AV	Pass
6	14193.0000	50.33	18.93	31.4	74	-23.67	0.4	Horizontal	PK	Pass
6	14193.0000	42.67	18.93	23.74	54	-11.33	0.4	Horizontal	AV	Pass

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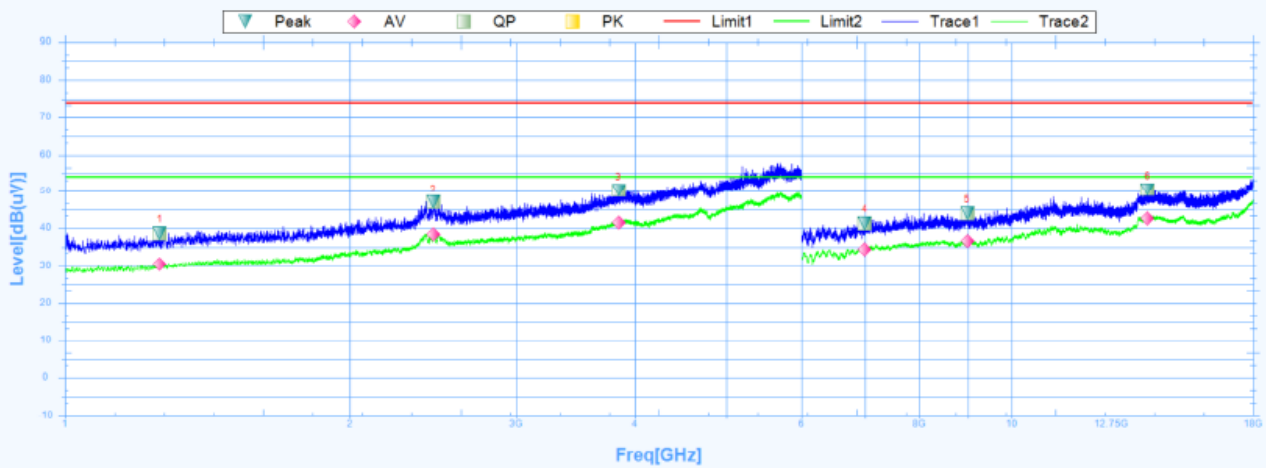
Vertical:



Susputed Data List

NO.	Freq. [MHz]	Level [dB(uV)]	Factor [dB]	Reading [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	1379.3750	38.54	25.03	13.51	74	-35.46	192.1	Vertical	PK	Pass
1	1379.3750	30.29	25.03	5.26	54	-23.71	192.1	Vertical	AV	Pass
2	2401.8750	46.54	27.27	19.27	74	-27.46	34.3	Vertical	PK	Pass
2	2401.8750	37.74	27.27	10.47	54	-16.26	34.3	Vertical	AV	Pass
3	5242.5000	61.84	31.79	30.05	74	-12.16	-0.1	Vertical	PK	Pass
3	5242.5000	46.81	31.79	15.02	54	-7.19	-0.1	Vertical	AV	Pass
4	7603.5000	42.92	7.94	34.98	74	-31.08	116.5	Vertical	PK	Pass
4	7603.5000	35.57	7.94	27.63	54	-18.43	116.5	Vertical	AV	Pass
5	10720.5000	46.63	14.64	31.99	74	-27.37	29.2	Vertical	PK	Pass
5	10720.5000	39.61	14.64	24.97	54	-14.39	29.2	Vertical	AV	Pass
6	15058.5000	50.93	19.32	31.61	74	-23.07	103.3	Vertical	PK	Pass
6	15058.5000	42.56	19.32	23.24	54	-11.44	103.3	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	1260.0000	38.66	24.61	14.05	74	-35.34	41.7	Horizontal	PK	Pass
1	1260.0000	30.36	24.61	5.75	54	-23.64	41.7	Horizontal	AV	Pass
2	2450.0000	47.09	27.43	19.66	74	-26.91	237.8	Horizontal	PK	Pass
2	2450.0000	38.5	27.43	11.07	54	-15.5	237.8	Horizontal	AV	Pass
3	3845.6250	50.36	29.33	21.03	74	-23.64	0.1	Horizontal	PK	Pass
3	3845.6250	41.53	29.33	12.2	54	-12.47	0.1	Horizontal	AV	Pass
4	7000.5000	41.18	6.36	34.82	74	-32.82	354.3	Horizontal	PK	Pass
4	7000.5000	34.37	6.36	28.01	54	-19.63	354.3	Horizontal	AV	Pass
5	8979.0000	43.97	9.83	34.14	74	-30.03	141.4	Horizontal	PK	Pass
5	8979.0000	36.6	9.83	26.77	54	-17.4	141.4	Horizontal	AV	Pass
6	13929.0000	50.48	18.92	31.56	74	-23.52	192.8	Horizontal	PK	Pass
6	13929.0000	42.66	18.92	23.74	54	-11.34	192.8	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	1332.5000	38.36	24.86	13.5	74	-35.64	169.5	Vertical	PK	Pass
1	1332.5000	30.08	24.86	5.22	54	-23.92	169.5	Vertical	AV	Pass
2	2453.7500	46.29	27.44	18.85	74	-27.71	359.7	Vertical	PK	Pass
2	2453.7500	37.8	27.44	10.36	54	-16.2	359.7	Vertical	AV	Pass
3	4587.5000	52.91	30.78	22.13	74	-21.09	0	Vertical	PK	Pass
3	4587.5000	43.61	30.78	12.83	54	-10.39	0	Vertical	AV	Pass
4	8001.0000	43.44	8.28	35.16	74	-30.56	148.6	Vertical	PK	Pass
4	8001.0000	35.7	8.28	27.42	54	-18.3	148.6	Vertical	AV	Pass
5	11040.0000	47.31	15.74	31.57	74	-26.69	51.8	Vertical	PK	Pass
5	11040.0000	39.78	15.74	24.04	54	-14.22	51.8	Vertical	AV	Pass
6	15154.5000	50.73	19.49	31.24	74	-23.27	122.2	Vertical	PK	Pass
6	15154.5000	42.86	19.49	23.37	54	-11.14	122.2	Vertical	AV	Pass

Note:

- The emission levels of other frequencies are very lower than the limit and not show in test report.
- Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency.
- Data of measurement shown "----" in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.
- Measurements were conducted in all three modulation (GFSK, Pi/4 DQPSK, 8DPSK), and the worst case Mode (8DPSK) was submitted only.
- 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)

6.11.3. Restricted Bands Requirements

Bluetooth (GFSK, Pi/4-DQPSK, 8DPSK) mode have been tested, and the worst result 8DPSK model was report as below

Frequency	Reading	Correct Factor	Emission Level	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	H/V	
Low Channel							
2387	62.39	-8.76	53.63	74	20.37	H	PK
2387	53.77	-8.76	45.01	54	8.99	H	AV
2387	60.73	-8.73	52.00	74	22.00	V	PK
2387	57.43	-8.73	48.70	54	5.30	V	AV
2390	62.35	-8.76	53.59	74	20.41	H	PK
2390	53.20	-8.76	44.44	54	9.56	H	AV
2390	61.25	-8.73	52.52	74	21.48	V	PK
2390	54.21	-8.73	45.48	54	8.52	V	AV
High Channel							
2483.5	63.42	-8.17	55.25	74	18.75	H	PK
2483.5	54.68	-8.17	46.51	54	7.49	H	AV
2483.5	60.17	-8.17	52.00	74	22.00	V	PK
2483.5	54.66	-8.17	46.49	54	7.51	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*******