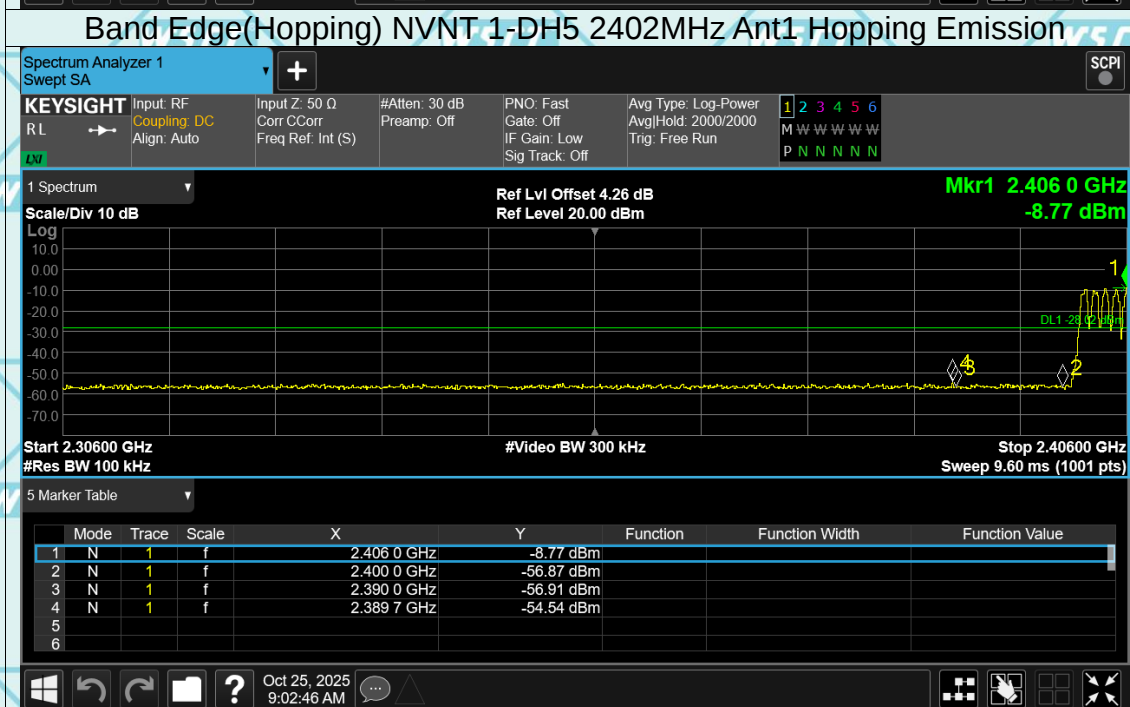
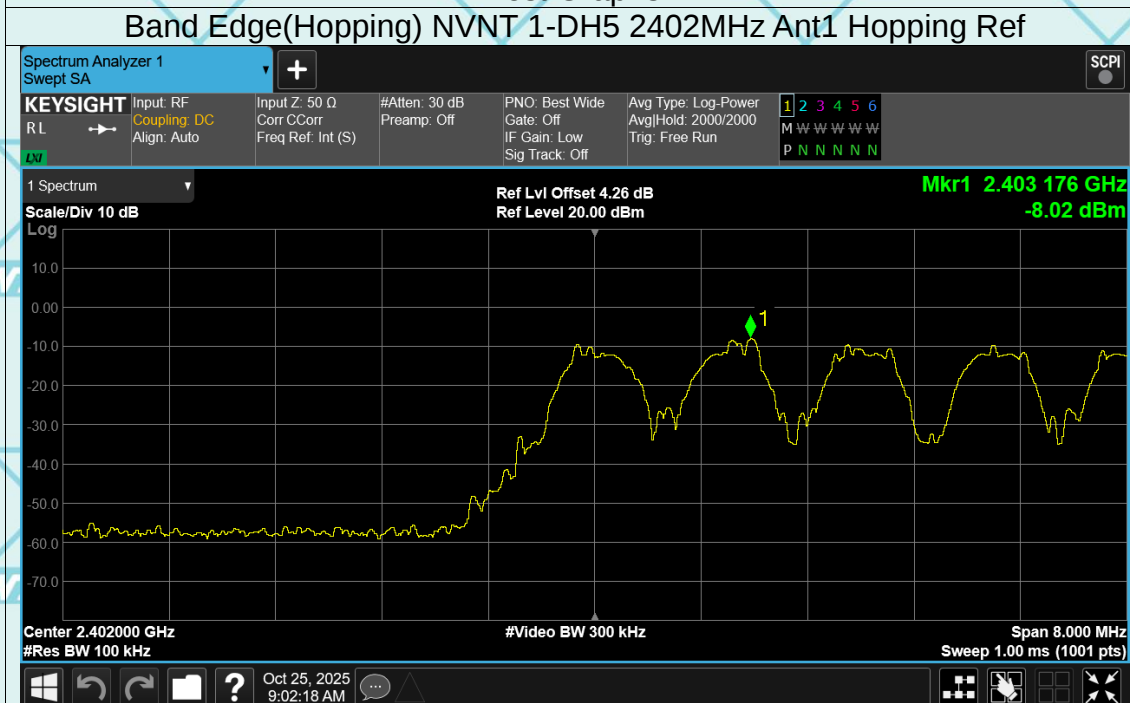


6.9.2. Test Data

GFSK Modulation (the worst case)

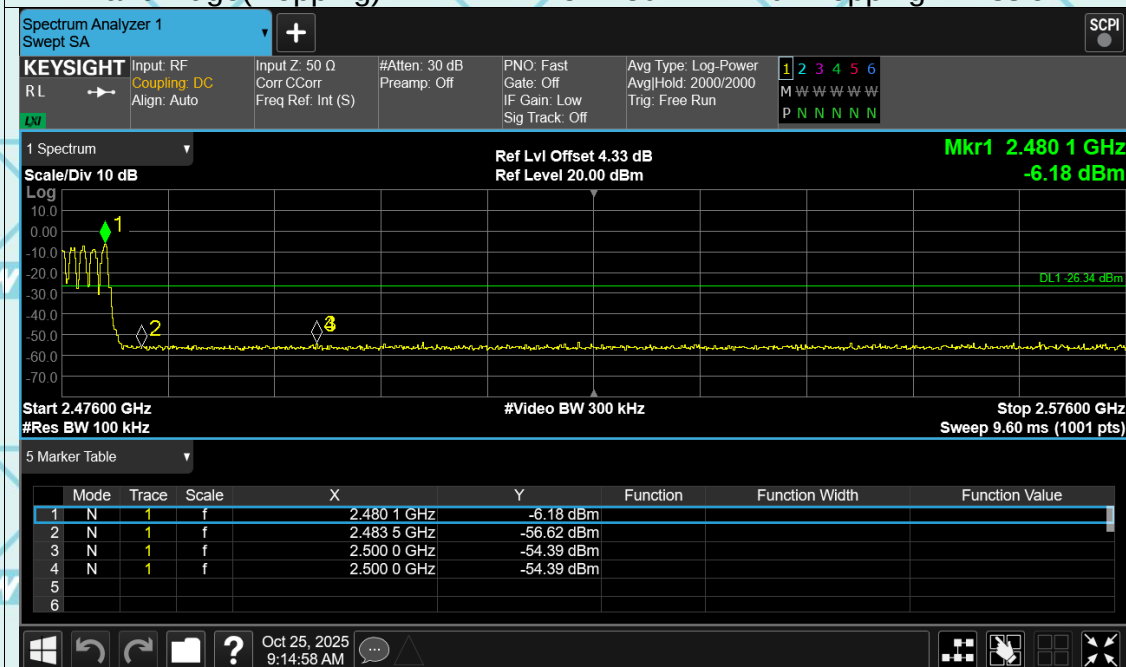
Test Graphs



Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Ref



Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Emission



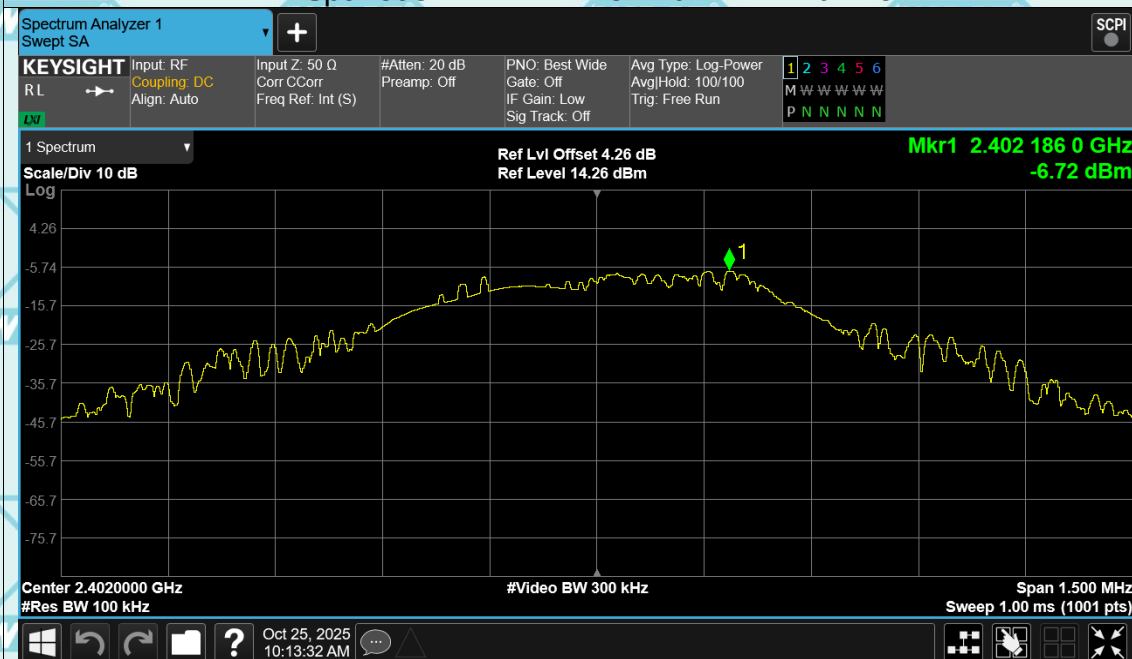
6.10. Conducted Spurious Emission Measurement

6.10.1. Test Specification

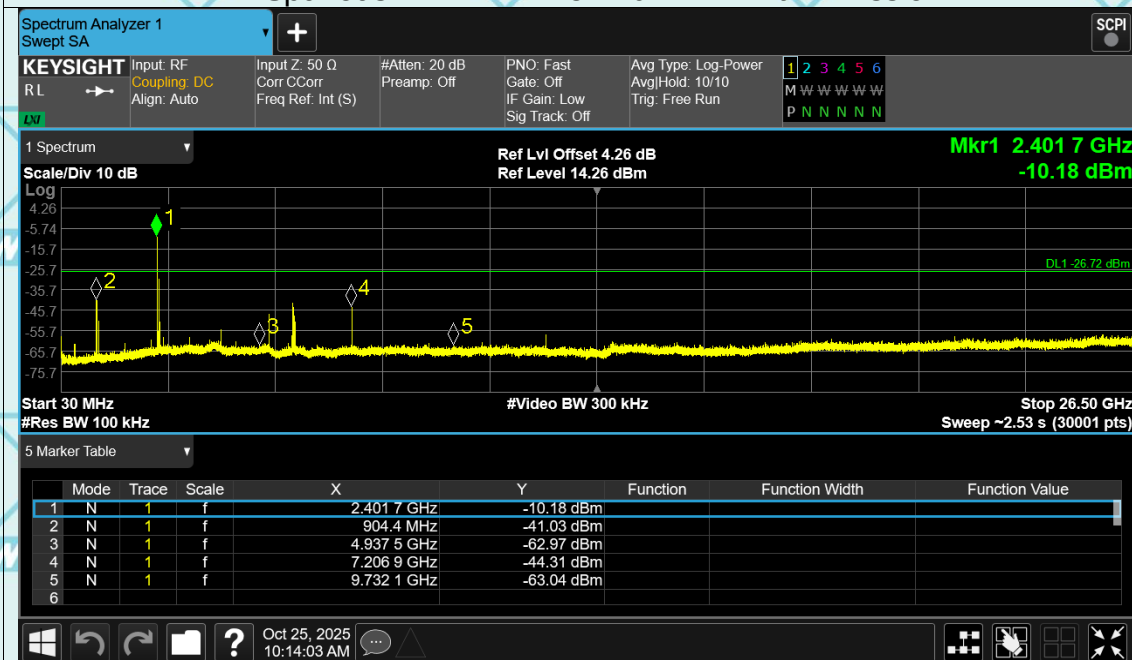
Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	ANSI C63.10:2020
Limit:	In any 100 kHz bandwidth outside the intentional radiation frequency band, the radio frequency power shall be at least 20 dB below the highest level of the radiated power. In addition, radiated emissions which fall in the restricted bands must also comply with the radiated emission limits.
Test Setup:	 Spectrum Analyzer EUT
Test Mode:	Transmitting mode with modulation
Test Procedure:	1. The testing follows the guidelines in Spurious RF Conducted Emissions of ANSI C63.10:2020 Measurement Guidelines 2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. 3. Set to the maximum power setting and enable the EUT transmit continuously. 4. Set RBW = 100 kHz, VBW = 300kHz, scan up through 10th harmonic. All harmonics / spurs must be at least 20 dB down from the highest emission level within the authorized band as measured with a 100 kHz RBW. 5. Measure and record the results in the test report. 6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
Test Result:	PASS

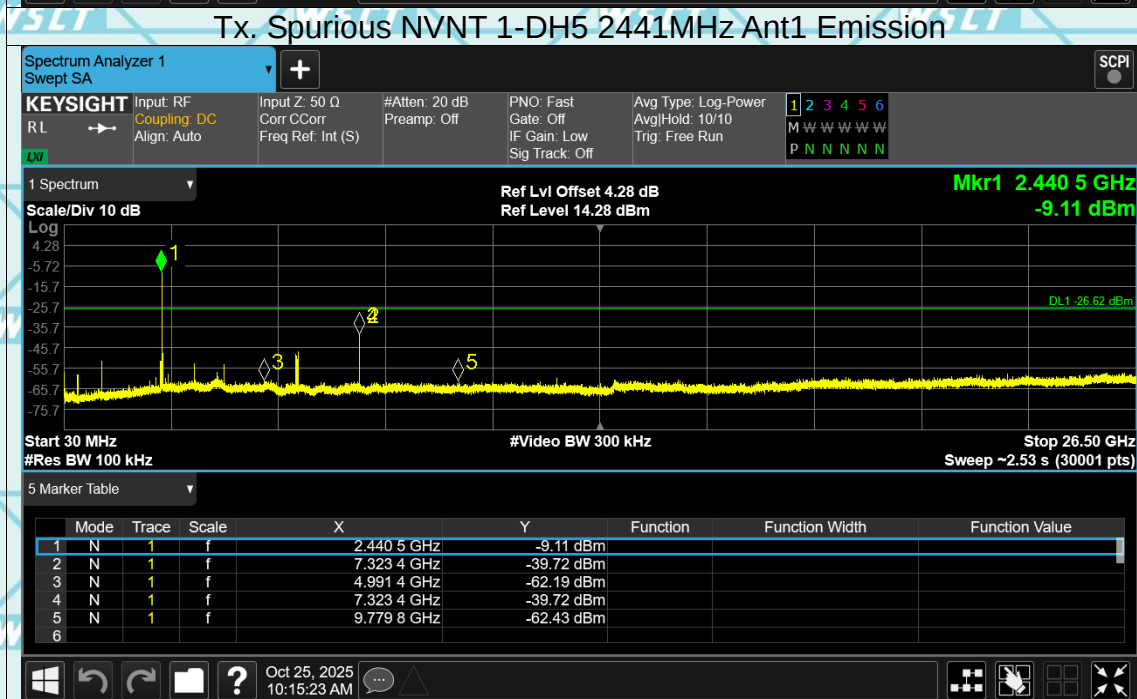
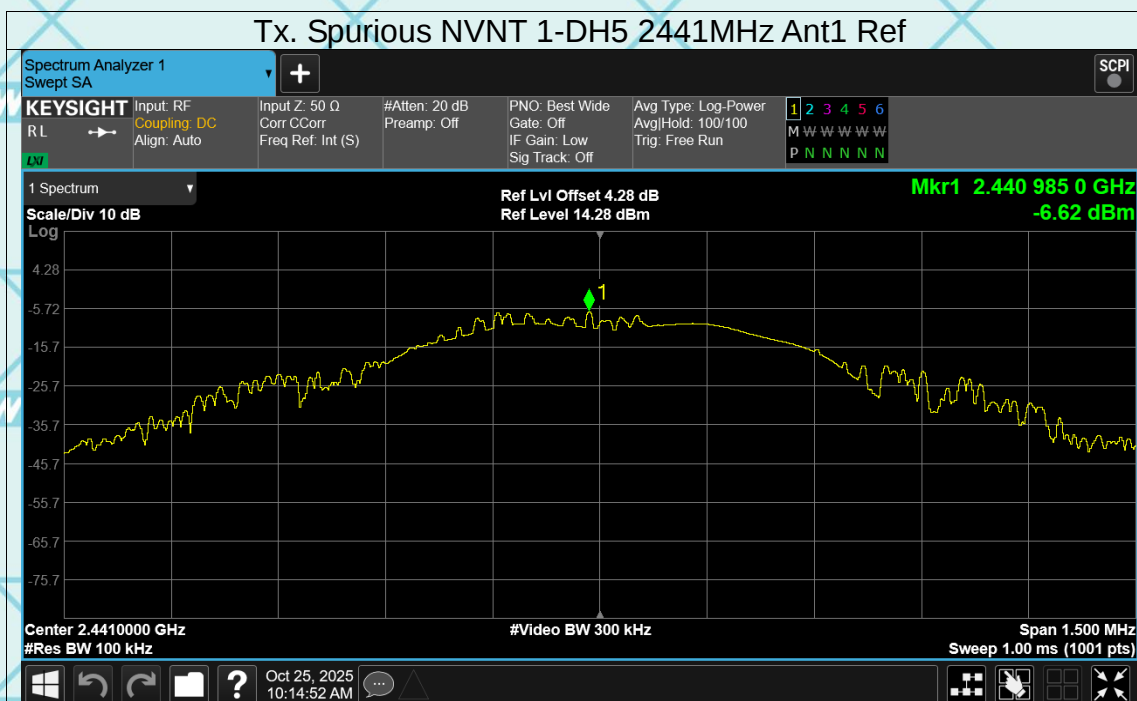
Test Graphs

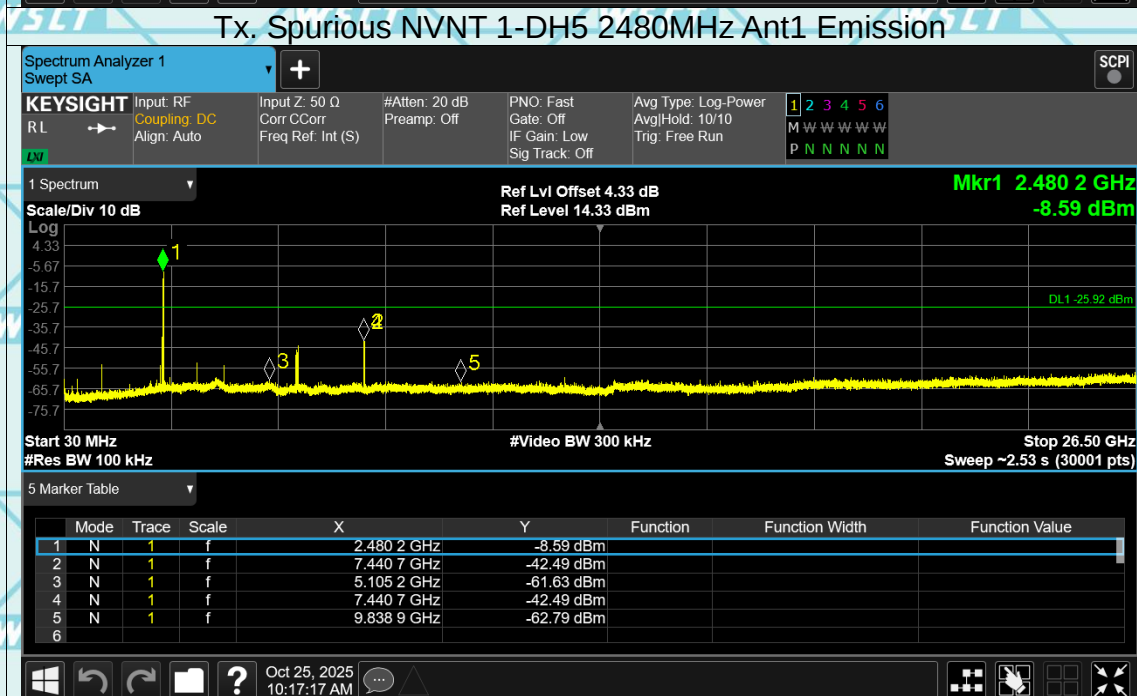
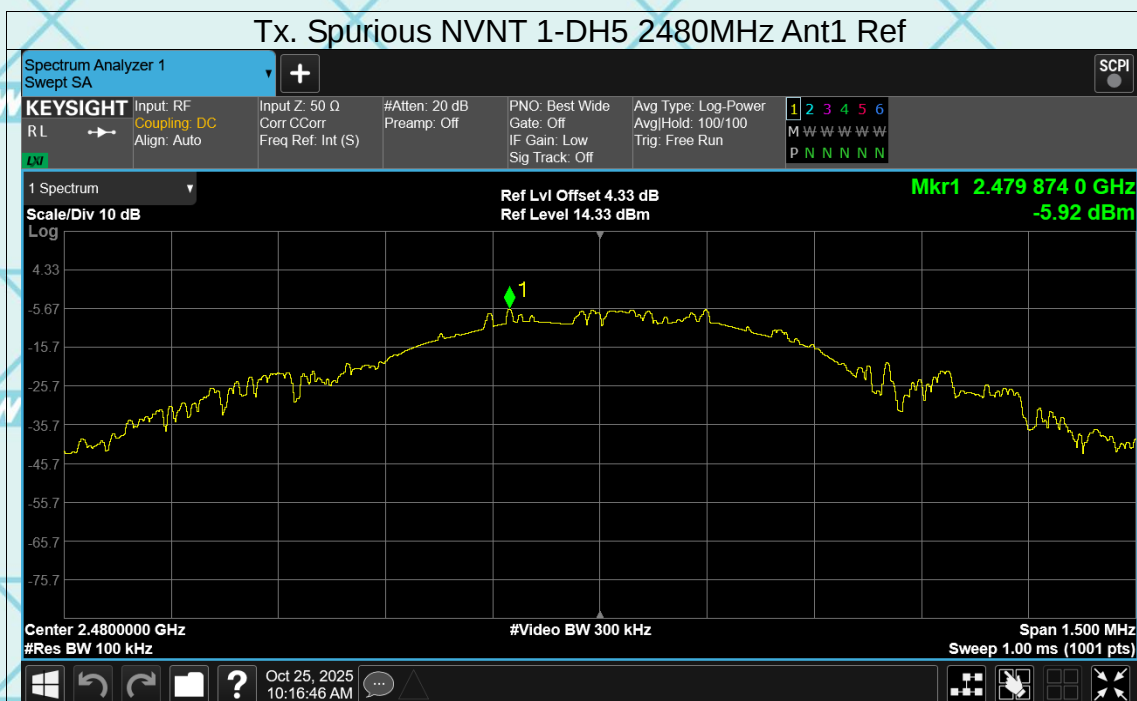
Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref

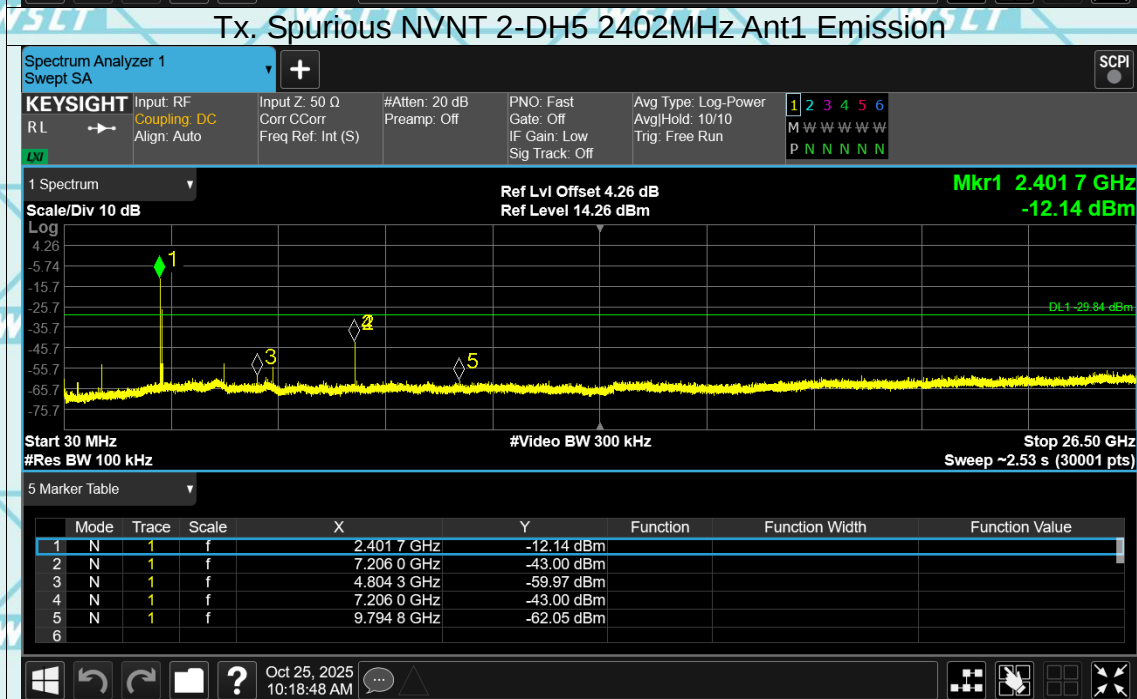
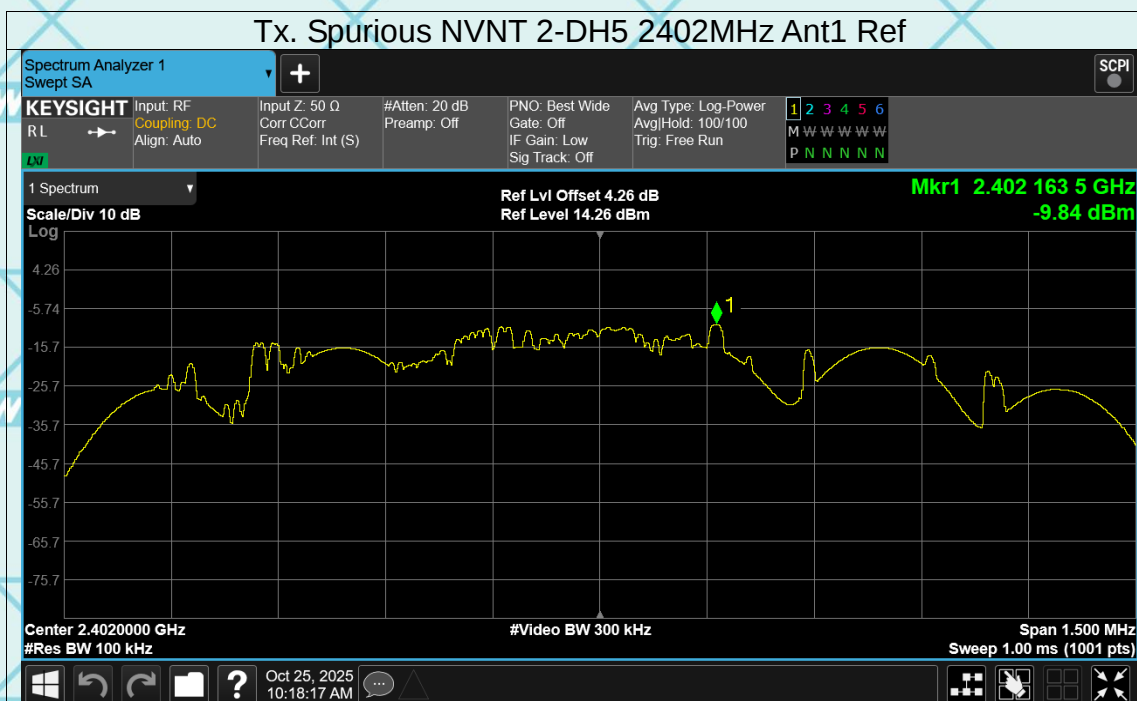


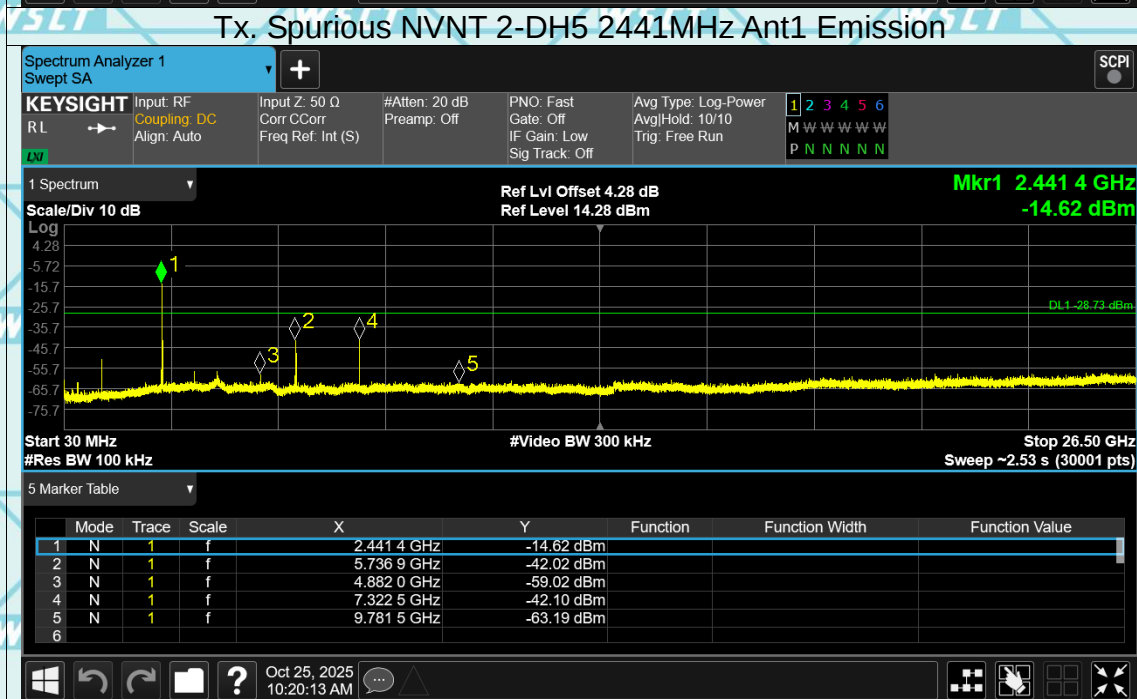
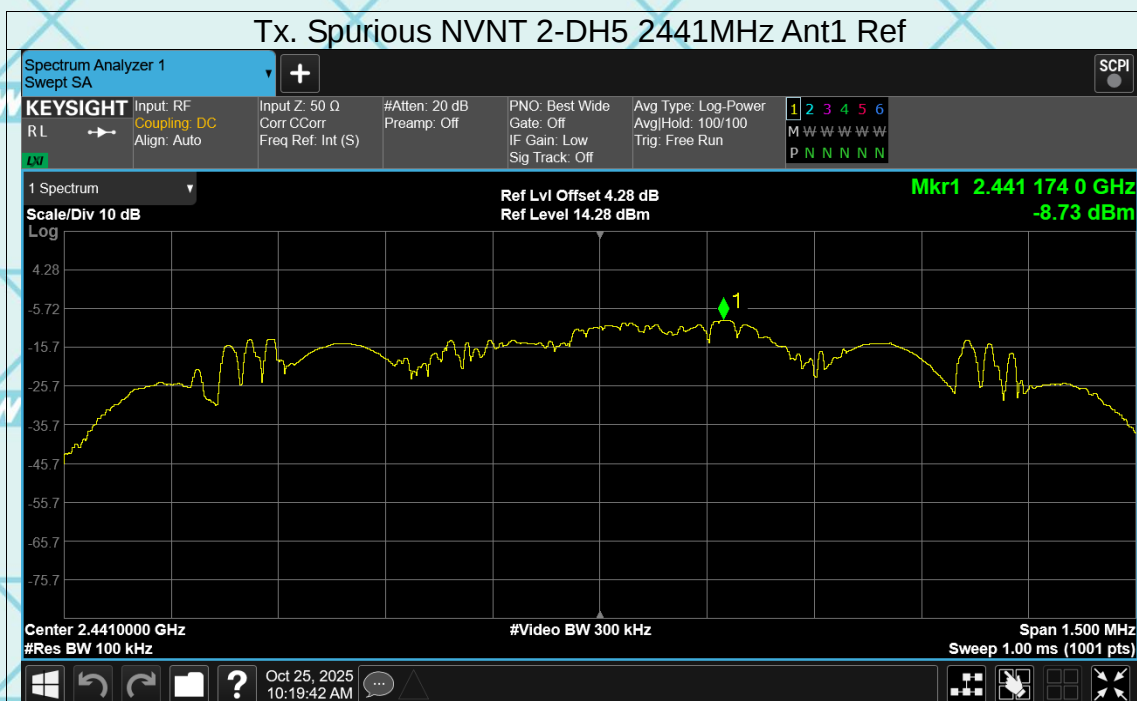
Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission

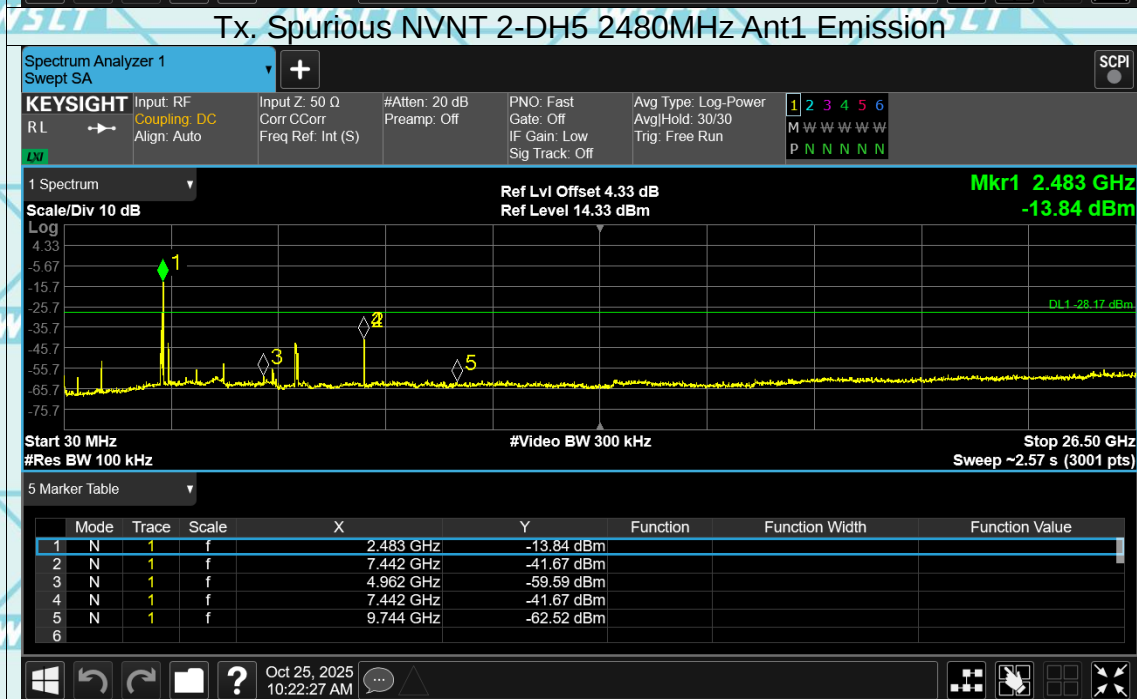
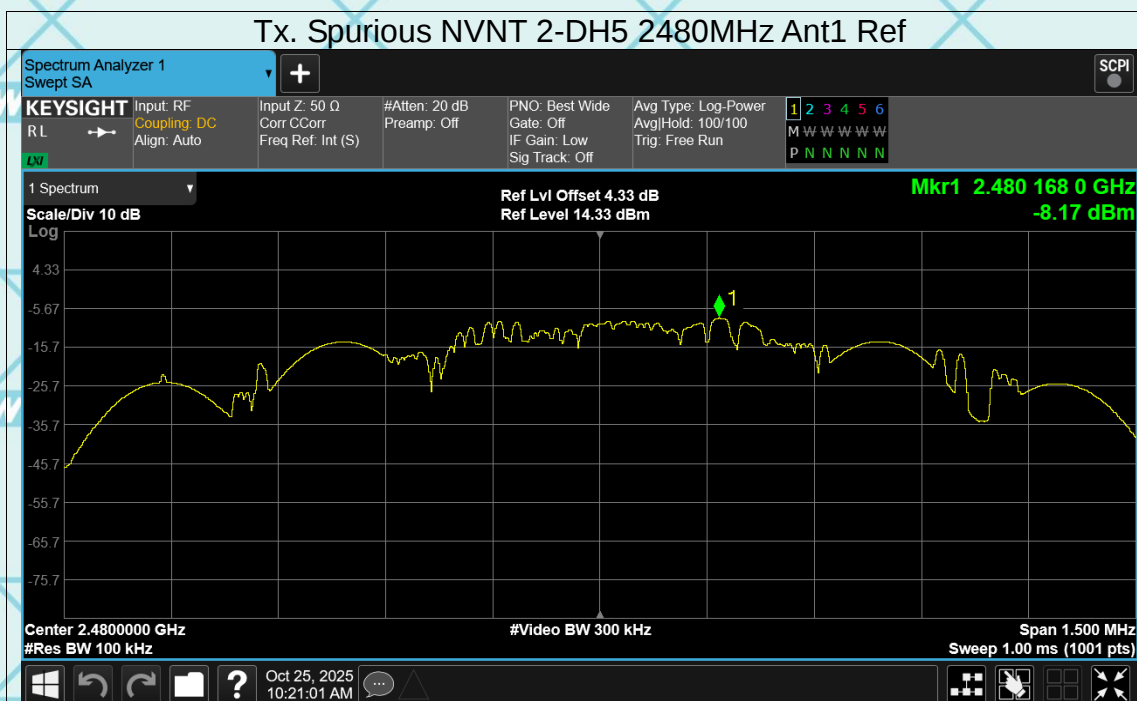


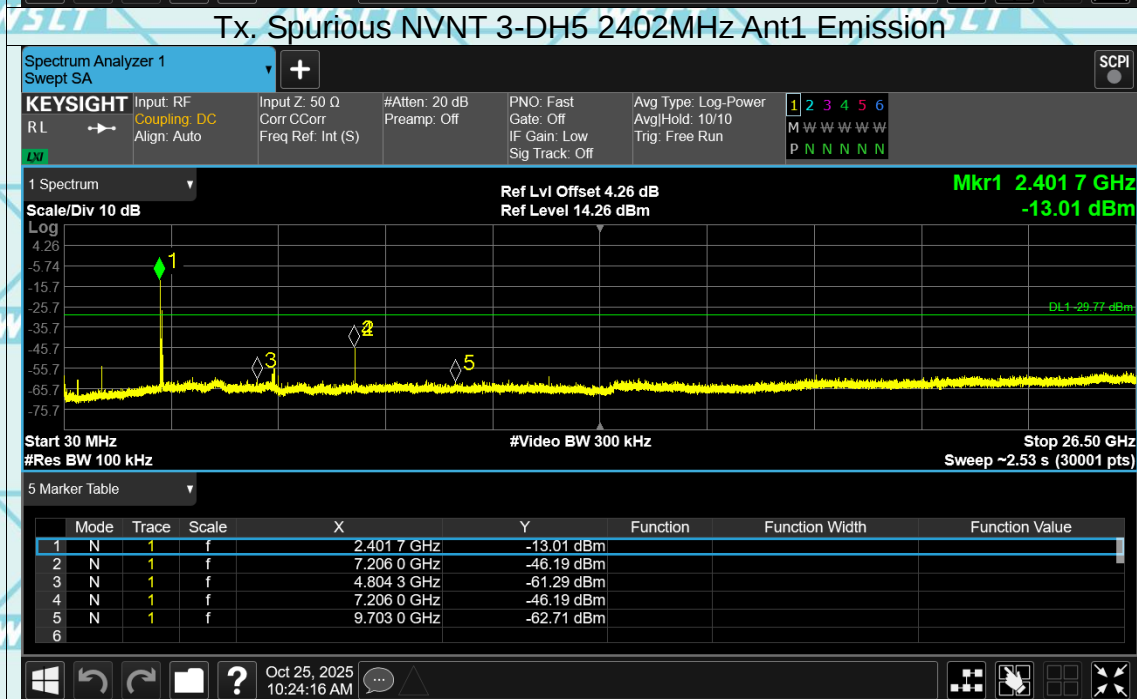
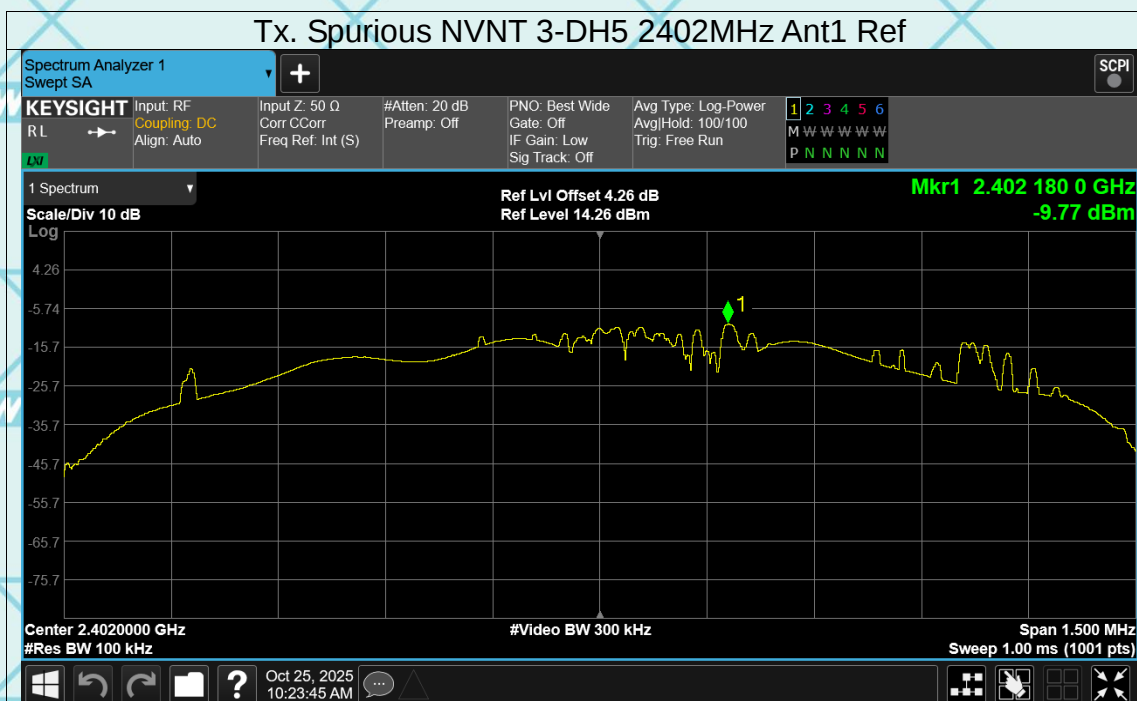


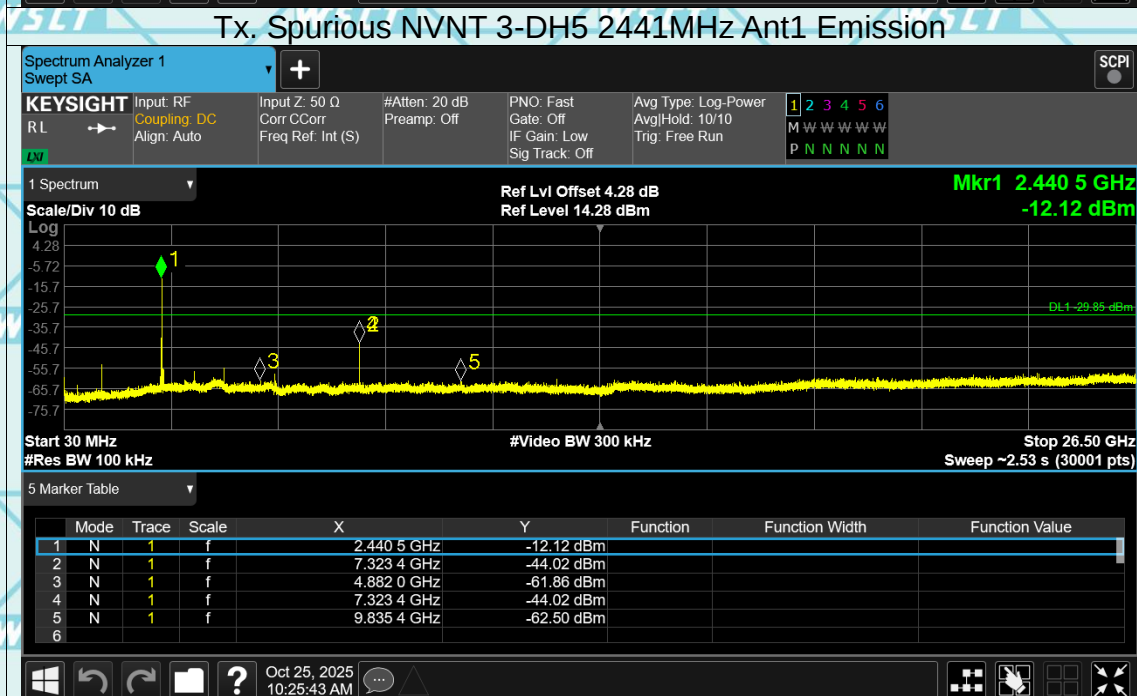
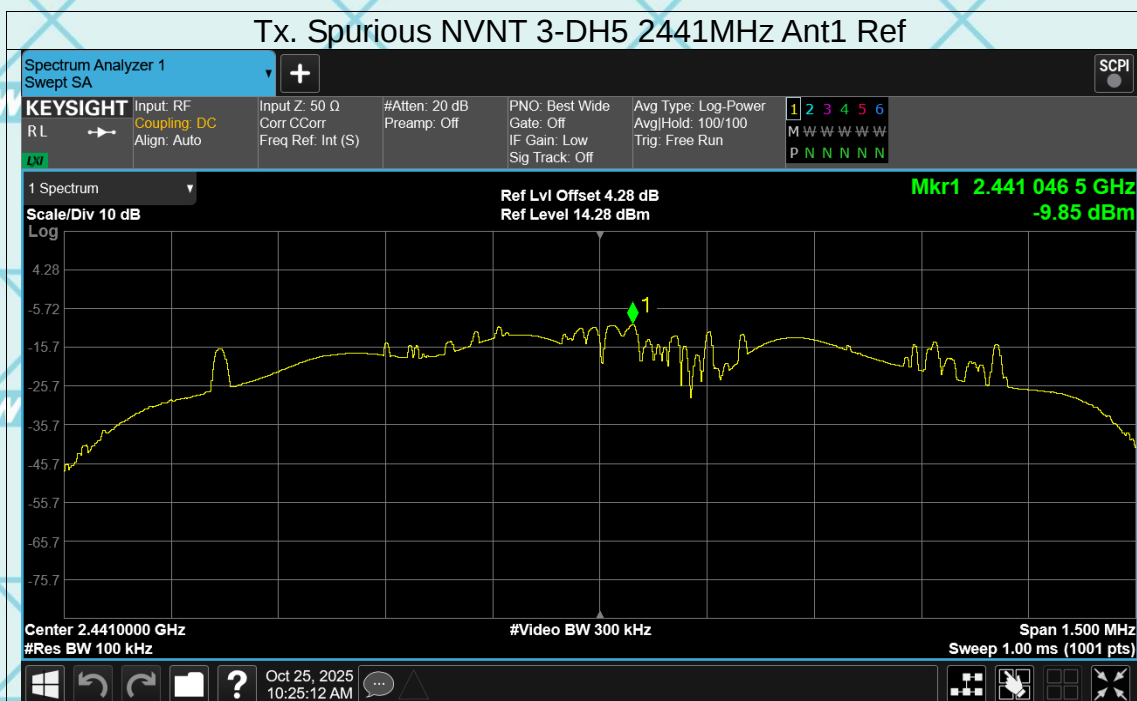


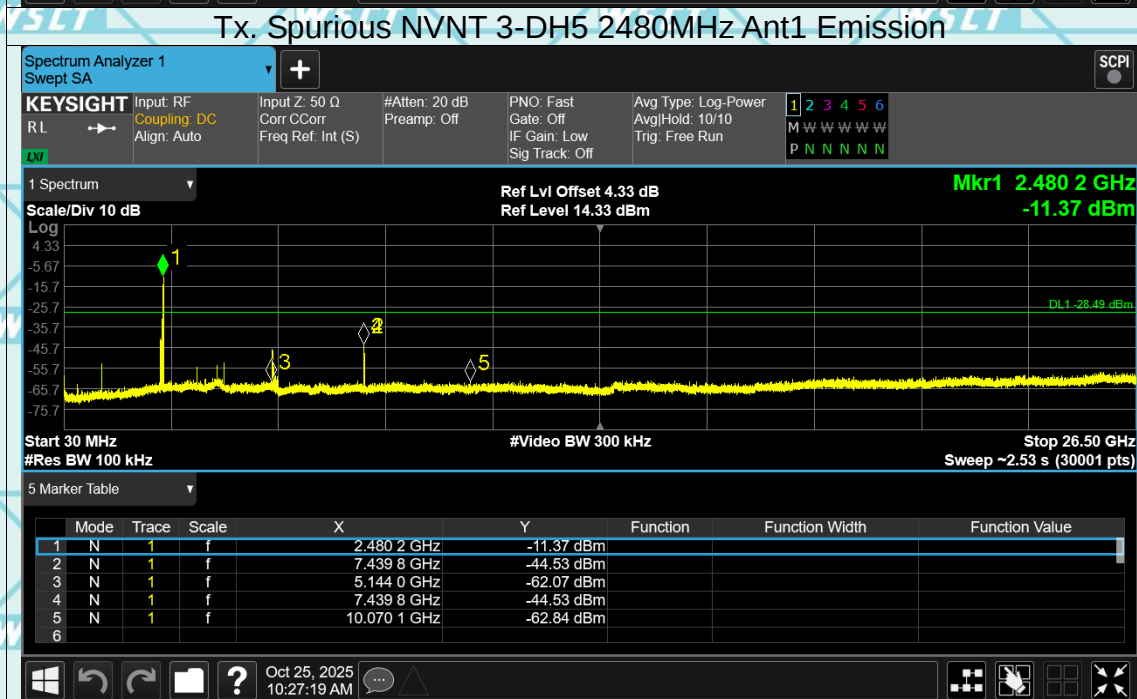
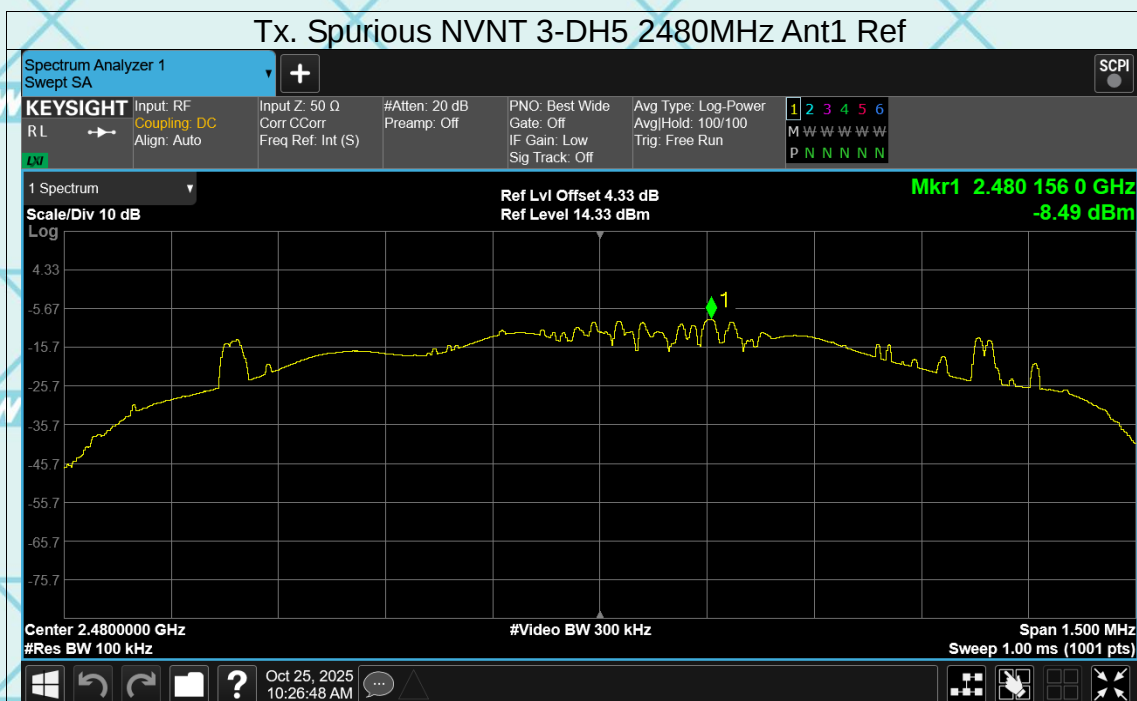










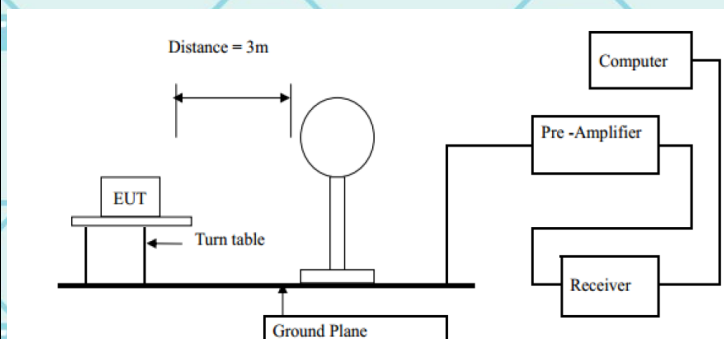


6.11. Radiated Spurious Emission Measurement

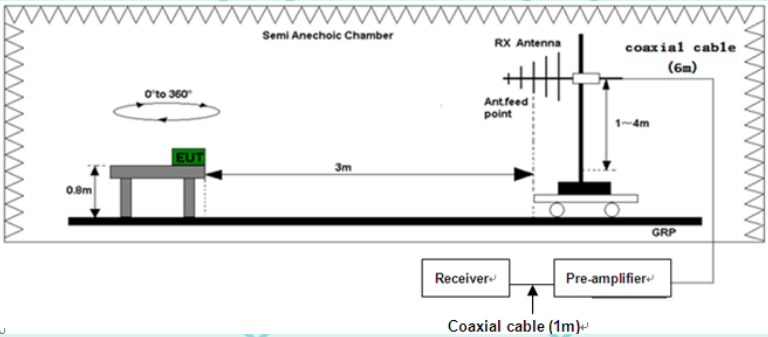
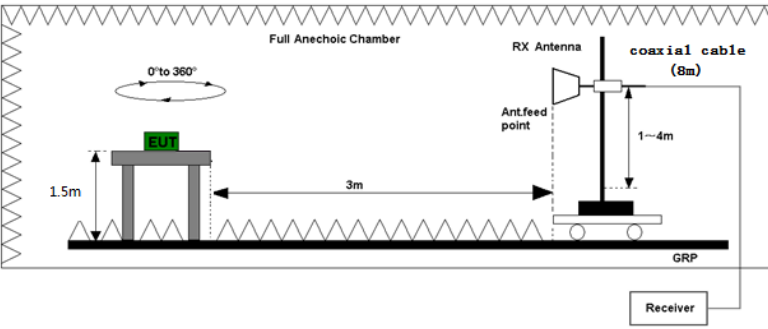
6.11.1. Test Specification

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			
Test Voltage	120Vac/60Hz			
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	Peak Value
Test setup:	Frequency	Field Strength (microvolts/meter)	Measurement Distance (meters)	Detector
	88-216	150	3	Average Value
	216-960	200	3	
	Above 960	500	3	
	Above 1GHz	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

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Revised: None

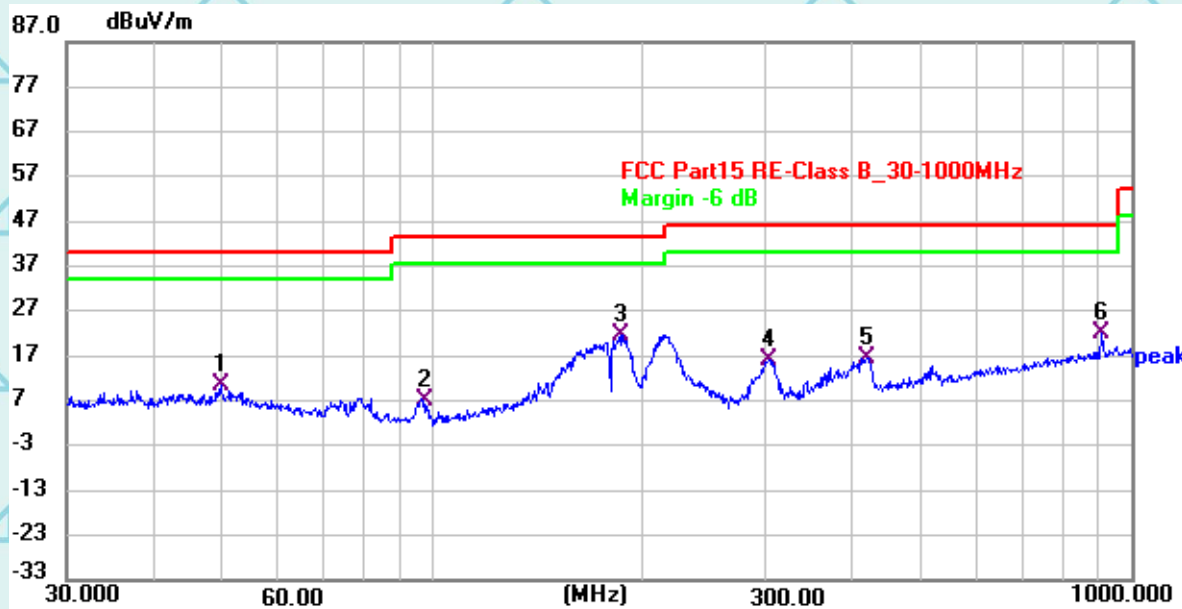
6.11.2. Test Data(worst case)

Please refer to following diagram for individual

The worst mode is GFSK

Below 1GHz

Horizontal:



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	49.9470	29.47	-18.96	10.51	40.00	-29.49	QP
2	97.3278	30.71	-23.80	6.91	43.50	-36.59	QP
3 *	186.6862	44.46	-22.68	21.78	43.50	-21.72	QP
4	302.7465	36.26	-20.11	16.15	46.00	-29.85	QP
5	420.3960	33.77	-17.20	16.57	46.00	-29.43	QP
6	908.8696	31.92	-9.85	22.07	46.00	-23.93	QP



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	42.3022	43.20	-18.88	24.32	40.00	-15.68	QP
2 *	51.6163	44.09	-19.00	25.09	40.00	-14.91	QP
3	78.7578	44.27	-23.84	20.43	40.00	-19.57	QP
4	95.4688	38.58	-24.07	14.51	43.50	-28.99	QP
5	189.2402	38.00	-22.84	15.16	43.50	-28.34	QP
6	522.7180	29.50	-15.03	14.47	46.00	-31.53	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)

e 150 kHz to 30MHz.

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Revised: None

Above 1GHz

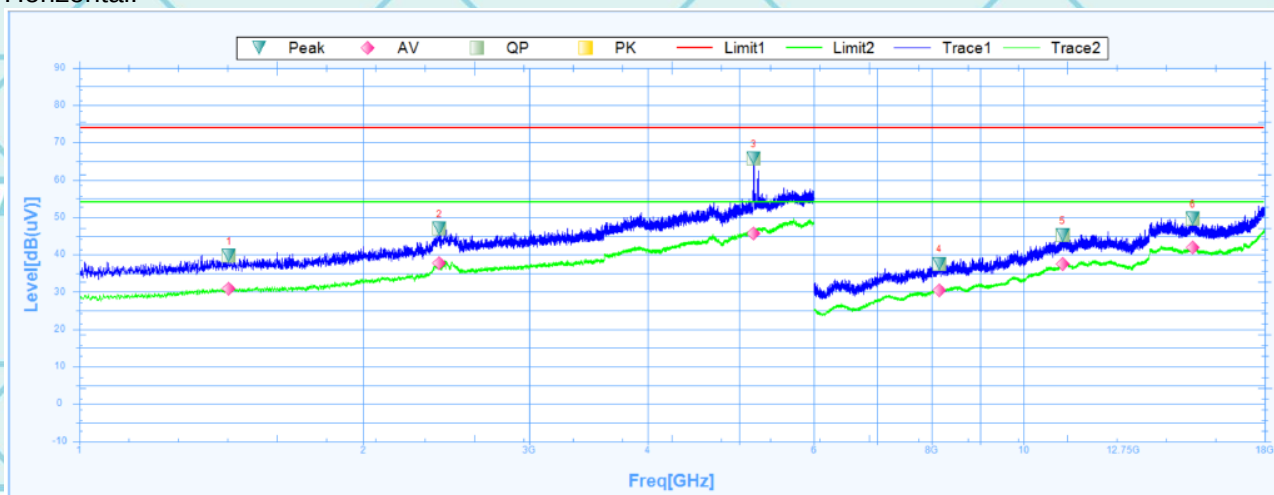
Note 1: The marked spikes near 2400 MHz with circle should be ignored because they are Fundamental signal.

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

GFSK

Low channel: 2402MHz

Horizontal:

**Susputed Data List**

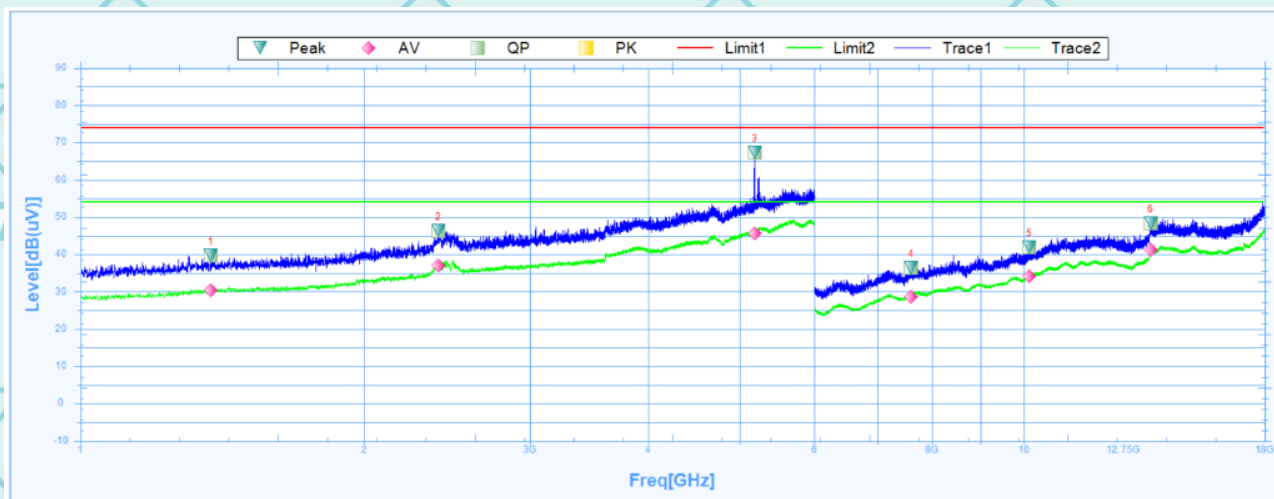
NO.	Freq. [MHz]	Level [dB(uV)]	Factor [dB]	Reading [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	1441.2500	39.63	25.06	14.57	74	-34.37	143.1	Horizontal	PK	Pass
1	1441.2500	30.87	25.06	5.81	54	-23.13	143.1	Horizontal	AV	Pass
2	2408.1250	46.99	27.29	19.7	74	-27.01	188.6	Horizontal	PK	Pass
2	2408.1250	37.8	27.29	10.51	54	-16.2	188.6	Horizontal	AV	Pass
3	5182.5000	65.74	31.75	33.99	74	-8.26	308.2	Horizontal	PK	Pass
3	5182.5000	45.76	31.75	14.01	54	-8.24	308.2	Horizontal	AV	Pass
4	8143.5000	37.61	8.6	29.01	74	-36.39	193	Horizontal	PK	Pass
4	8143.5000	30.33	8.6	21.73	54	-23.67	193	Horizontal	AV	Pass
5	10998.0000	45.31	15.61	29.7	74	-28.69	141.5	Horizontal	PK	Pass
5	10998.0000	37.46	15.61	21.85	54	-16.54	141.5	Horizontal	AV	Pass
6	15108.0000	49.59	19.68	29.91	74	-24.41	163.1	Horizontal	PK	Pass
6	15108.0000	41.85	19.68	22.17	54	-12.15	163.1	Horizontal	AV	Pass

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Revised: None

Vertical:



Suspected Data List

NO.	Freq. [MHz]	Level [dB(uV)]	Factor [dB]	Reading [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	1375.0000	39.76	25.01	14.75	74	-34.24	234.1	Vertical	PK	Pass
1	1375.0000	30.35	25.01	5.34	54	-23.65	234.1	Vertical	AV	Pass
2	2397.5000	46.41	27.25	19.16	74	-27.59	257.9	Vertical	PK	Pass
2	2397.5000	37.16	27.25	9.91	54	-16.84	257.9	Vertical	AV	Pass
3	5188.7500	67.29	31.75	35.54	74	-6.71	158.7	Vertical	PK	Pass
3	5188.7500	45.69	31.75	13.94	54	-8.31	158.7	Vertical	AV	Pass
4	7597.5000	36.39	7.91	28.48	74	-37.61	121.8	Vertical	PK	Pass
4	7597.5000	28.73	7.91	20.82	54	-25.27	121.8	Vertical	AV	Pass
5	10137.0000	41.92	12.77	29.15	74	-32.08	161.3	Vertical	PK	Pass
5	10137.0000	34.13	12.77	21.36	54	-19.87	161.3	Vertical	AV	Pass
6	13627.5000	48.27	18.05	30.22	74	-25.73	60.8	Vertical	PK	Pass
6	13627.5000	41.24	18.05	23.19	54	-12.76	60.8	Vertical	AV	Pass

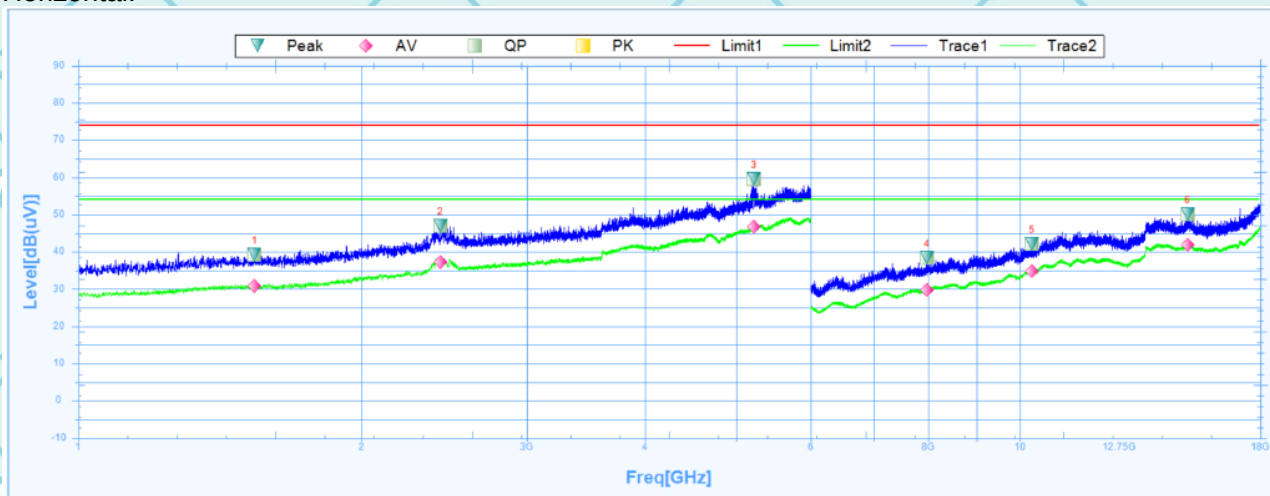
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Middle channel: 2441MHz

Horizontal:



Suspected Data List

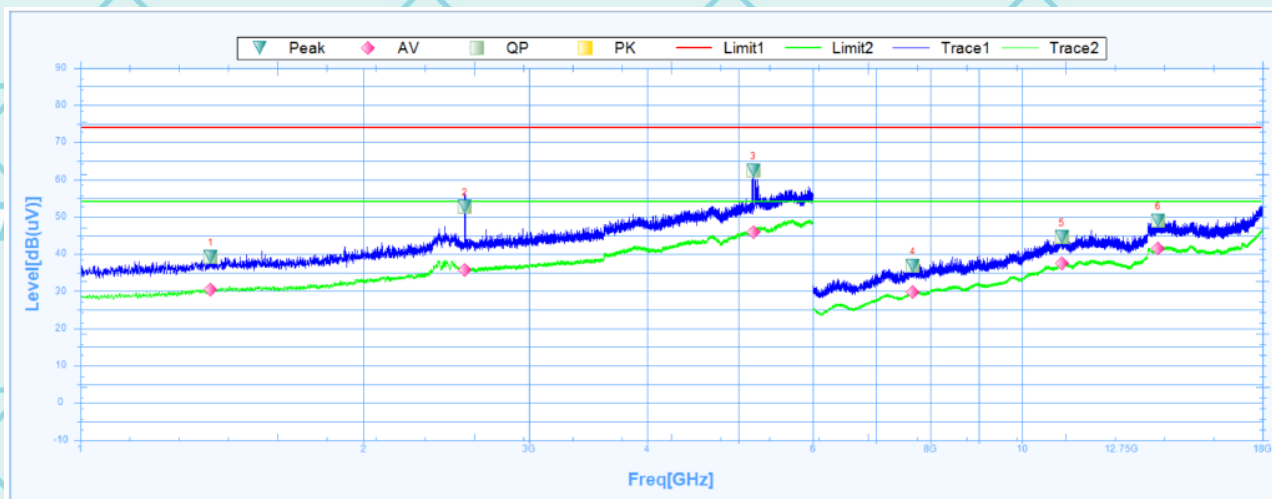
NO.	Freq. [MHz]	Level [dB(uV)]	Factor [dB]	Reading [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	1539.3750	39.19	24.96	14.23	74	-34.81	17.7	Horizontal	PK	Pass
1	1539.3750	30.82	24.96	5.86	54	-23.18	17.7	Horizontal	AV	Pass
2	2425.6250	47.04	27.35	19.69	74	-26.96	287.8	Horizontal	PK	Pass
2	2425.6250	37.33	27.35	9.98	54	-16.67	287.8	Horizontal	AV	Pass
3	5222.5000	59.57	31.78	27.79	74	-14.43	349.1	Horizontal	PK	Pass
3	5222.5000	46.77	31.78	14.99	54	-7.23	349.1	Horizontal	AV	Pass
4	7971.0000	38.3	8.2	30.1	74	-35.7	4.6	Horizontal	PK	Pass
4	7971.0000	29.84	8.2	21.64	54	-24.16	4.6	Horizontal	AV	Pass
5	10305.0000	42.13	13.31	28.82	74	-31.87	1	Horizontal	PK	Pass
5	10305.0000	34.75	13.31	21.44	54	-19.25	1	Horizontal	AV	Pass
6	15075.0000	50.06	19.44	30.62	74	-23.94	128.4	Horizontal	PK	Pass
6	15075.0000	41.85	19.44	22.41	54	-12.15	128.4	Horizontal	AV	Pass

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Vertical:



Suspected Data List

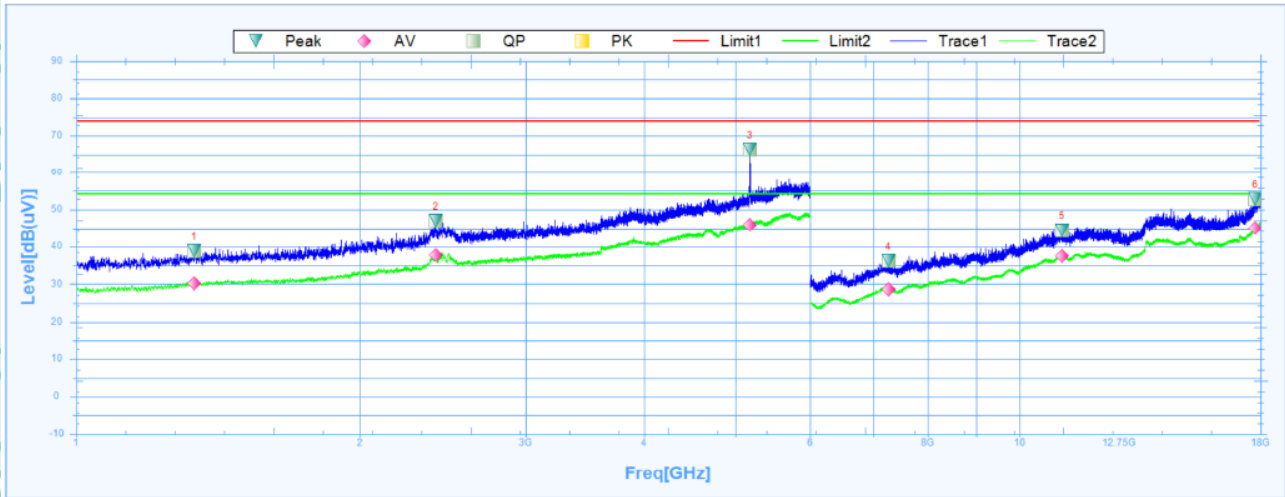
NO.	Freq. [MHz]	Level [dB(uV)]	Factor [dB]	Reading [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	1376.2500	39.17	25.02	14.15	74	-34.83	128.8	Vertical	PK	Pass
1	1376.2500	30.36	25.02	5.34	54	-23.64	128.8	Vertical	AV	Pass
2	2562.5000	52.82	27.68	25.14	74	-21.18	30.8	Vertical	PK	Pass
2	2562.5000	35.64	27.68	7.96	54	-18.36	30.8	Vertical	AV	Pass
3	5186.8750	62.53	31.75	30.78	74	-11.47	205.3	Vertical	PK	Pass
3	5186.8750	45.87	31.75	14.12	54	-8.13	205.3	Vertical	AV	Pass
4	7657.5000	36.91	7.96	28.95	74	-37.09	172.7	Vertical	PK	Pass
4	7657.5000	29.69	7.96	21.73	54	-24.31	172.7	Vertical	AV	Pass
5	11022.0000	44.49	15.69	28.8	74	-29.51	213.4	Vertical	PK	Pass
5	11022.0000	37.4	15.69	21.71	54	-16.6	213.4	Vertical	AV	Pass
6	13951.5000	48.98	18.98	30	74	-25.02	360.1	Vertical	PK	Pass
6	13951.5000	41.55	18.98	22.57	54	-12.45	360.1	Vertical	AV	Pass

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High channel: 2480MHz

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Horizontal:



Suspected Data List

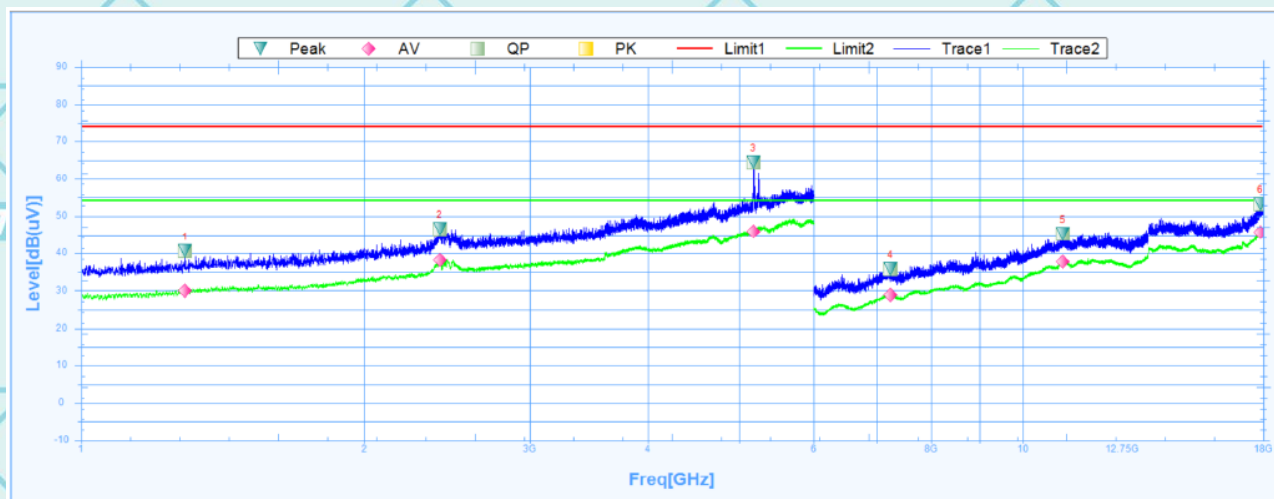
NO.	Freq. [MHz]	Level [dB(uV)]	Factor [dB]	Reading [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	1334.3750	38.82	24.87	13.95	74	-35.18	250.4	Horizontal	PK	Pass
1	1334.3750	30.13	24.87	5.26	54	-23.87	250.4	Horizontal	AV	Pass
2	2407.5000	46.9	27.29	19.61	74	-27.1	9.3	Horizontal	PK	Pass
2	2407.5000	37.83	27.29	10.54	54	-16.17	9.3	Horizontal	AV	Pass
3	5181.8750	66.44	31.75	34.69	74	-7.56	43.6	Horizontal	PK	Pass
3	5181.8750	45.94	31.75	14.19	54	-8.06	43.6	Horizontal	AV	Pass
4	7261.5000	36.14	6.92	29.22	74	-37.86	144.2	Horizontal	PK	Pass
4	7261.5000	28.6	6.92	21.68	54	-25.4	144.2	Horizontal	AV	Pass
5	11094.0000	44.46	15.89	28.57	74	-29.54	352.6	Horizontal	PK	Pass
5	11094.0000	37.41	15.89	21.52	54	-16.59	352.6	Horizontal	AV	Pass
6	17784.0000	52.65	22.52	30.13	74	-21.35	345.8	Horizontal	PK	Pass
6	17784.0000	45.04	22.52	22.52	54	-8.96	345.8	Horizontal	AV	Pass

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Revised: None

Vertical:



Suspected Data List

NO.	Freq. [MHz]	Level [dB(uV)]	Factor [dB]	Reading [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	1290.0000	40.52	24.72	15.8	74	-33.48	184.6	Vertical	PK	Pass
1	1290.0000	30.06	24.72	5.34	54	-23.94	184.6	Vertical	AV	Pass
2	2404.3750	46.57	27.27	19.3	74	-27.43	16.5	Vertical	PK	Pass
2	2404.3750	38.07	27.27	10.8	54	-15.93	16.5	Vertical	AV	Pass
3	5176.8750	64.5	31.74	32.76	74	-9.5	38.8	Vertical	PK	Pass
3	5176.8750	45.99	31.74	14.25	54	-8.01	38.8	Vertical	AV	Pass
4	7237.5000	35.82	6.96	28.86	74	-38.18	245.9	Vertical	PK	Pass
4	7237.5000	28.86	6.96	21.9	54	-25.14	245.9	Vertical	AV	Pass
5	11031.0000	45.21	15.71	29.5	74	-28.79	94.1	Vertical	PK	Pass
5	11031.0000	37.64	15.71	21.93	54	-16.36	94.1	Vertical	AV	Pass
6	17869.5000	53.19	23.07	30.12	74	-20.81	201.6	Vertical	PK	Pass
6	17869.5000	45.79	23.07	22.72	54	-8.21	201.6	Vertical	AV	Pass

Note:

1. The emission levels of other frequencies are very lower than the limit and not show in test report.
2. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency.
3. 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.
4. Measurements were conducted in all three modulation (GFSK, Pi/4 DQPSK, 8DPSK), and the worst case Mode (GFSK) was submitted only.

6.11.3. Restricted Bands Requirements

Bluetooth (GFSK, Pi/4-DQPSK, 8DPSK) mode have been tested, and the worst result GFSK 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	60.11	-8.76	51.35	74	-22.65	H	PK
2387	42.54	-8.76	33.78	54	-20.22	H	AV
2387	61.21	-8.76	52.45	74	-21.55	V	PK
2387	43.86	-8.76	35.10	54	-18.90	V	AV
2390	68.01	-8.73	59.28	74	-14.72	H	PK
2390	47.19	-8.73	38.46	54	-15.54	H	AV
2390	67.99	-8.73	59.26	74	-14.74	V	PK
2390	49.81	-8.73	41.08	54	-12.92	V	AV
High Channel							
2483.5	68.83	-8.17	60.66	74	-13.34	H	PK
2483.5	47.93	-8.17	39.76	54	-14.24	H	AV
2483.5	66.82	-8.17	58.65	74	-15.35	V	PK
2483.5	47.60	-8.17	39.43	54	-14.57	V	AV

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)

Test Setup Photographs

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

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