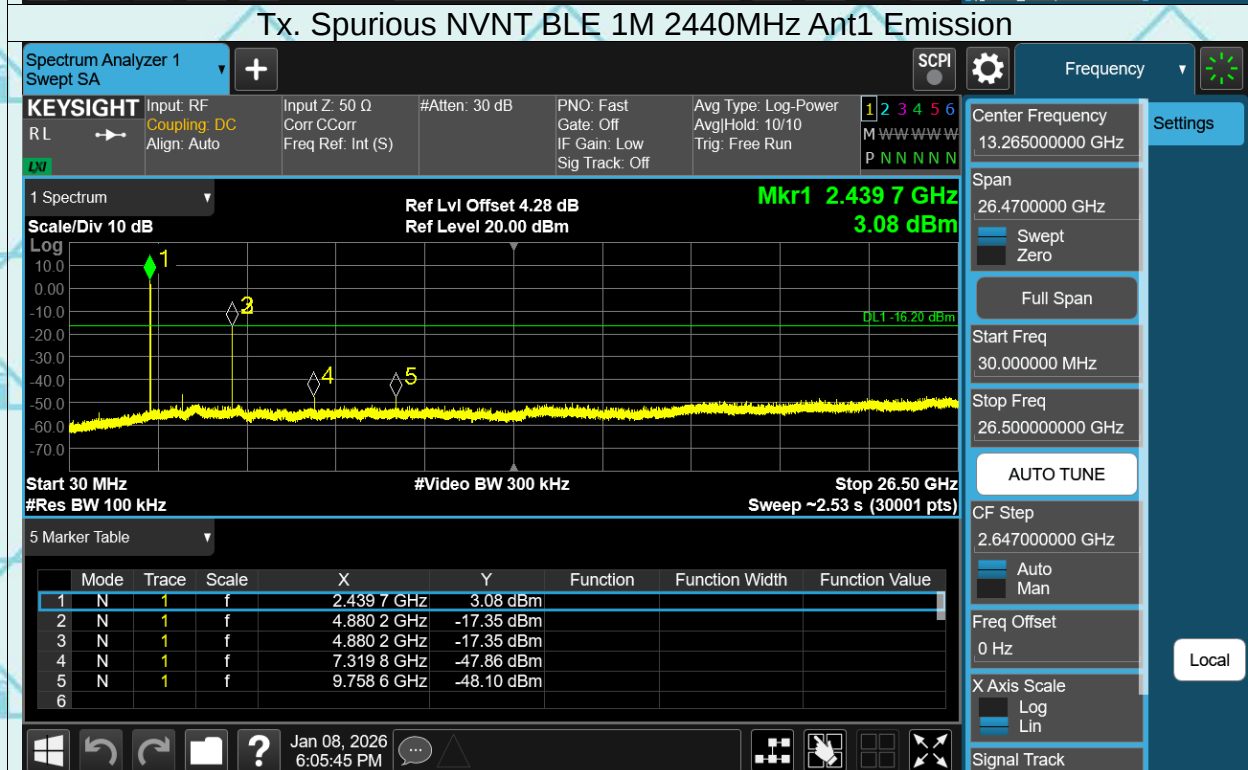
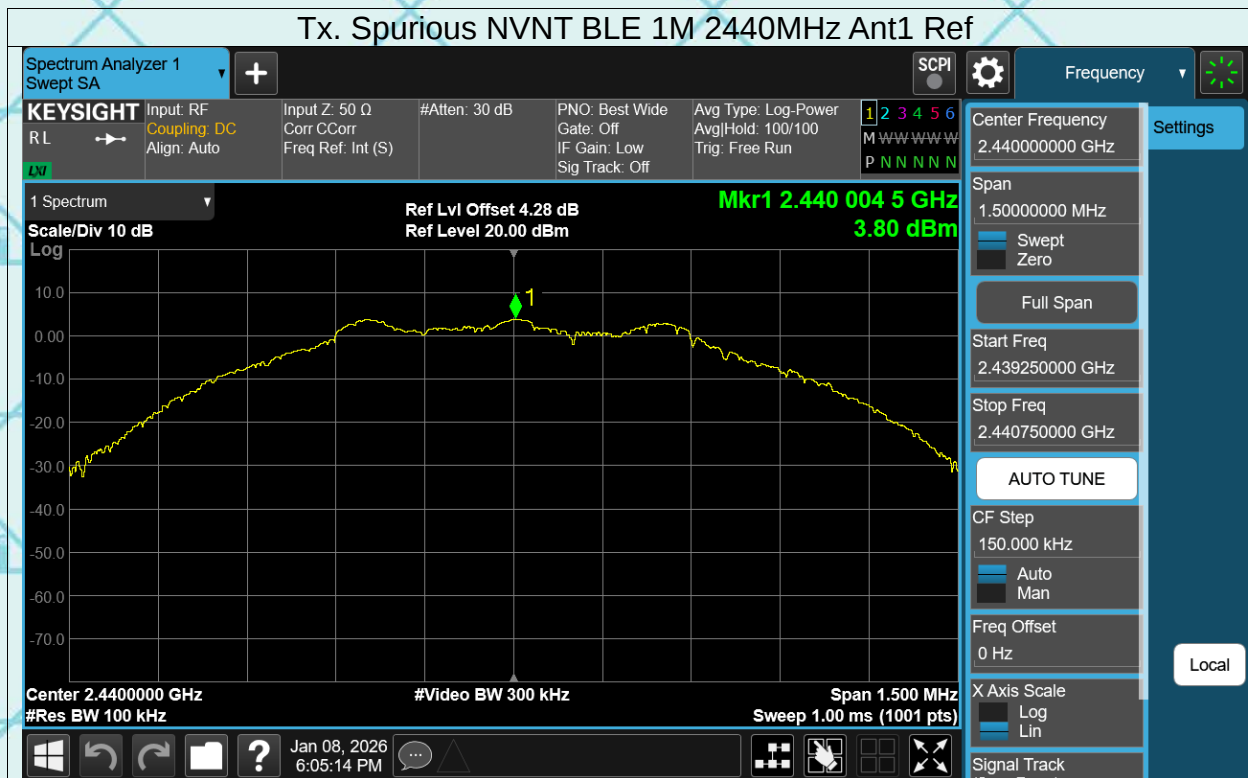
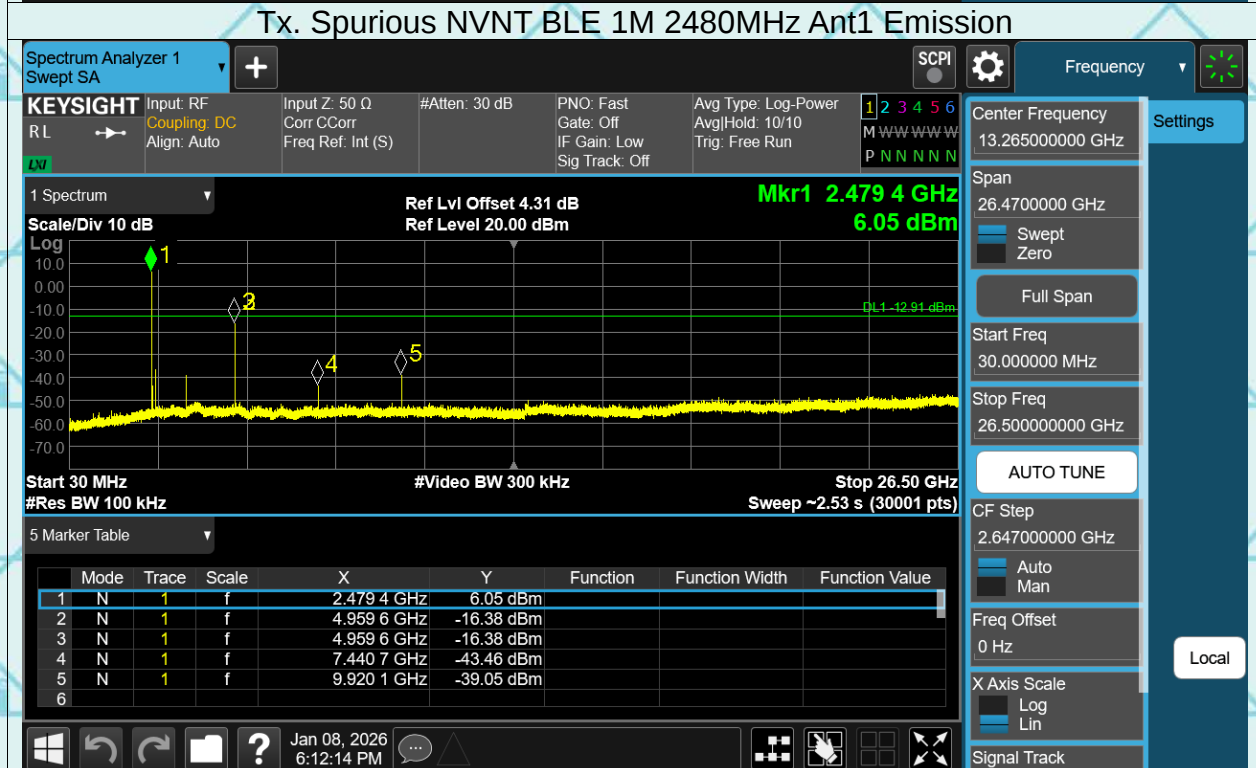
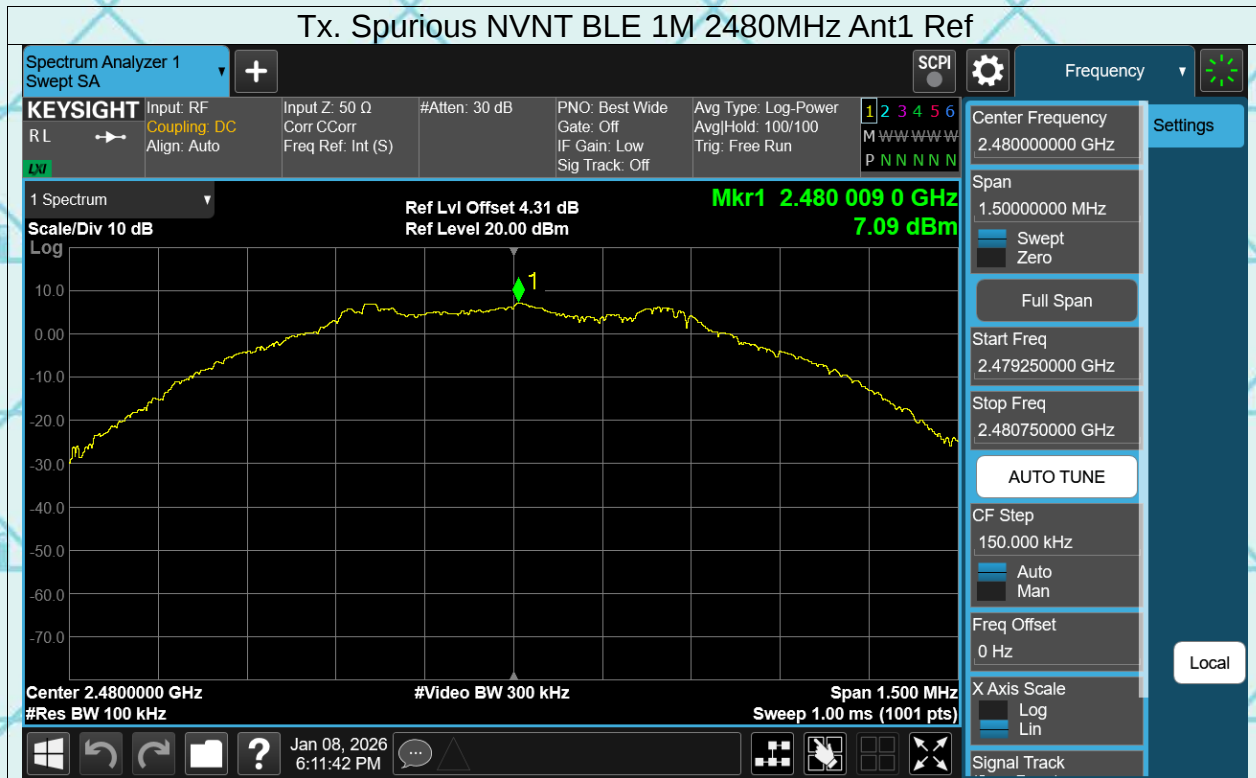
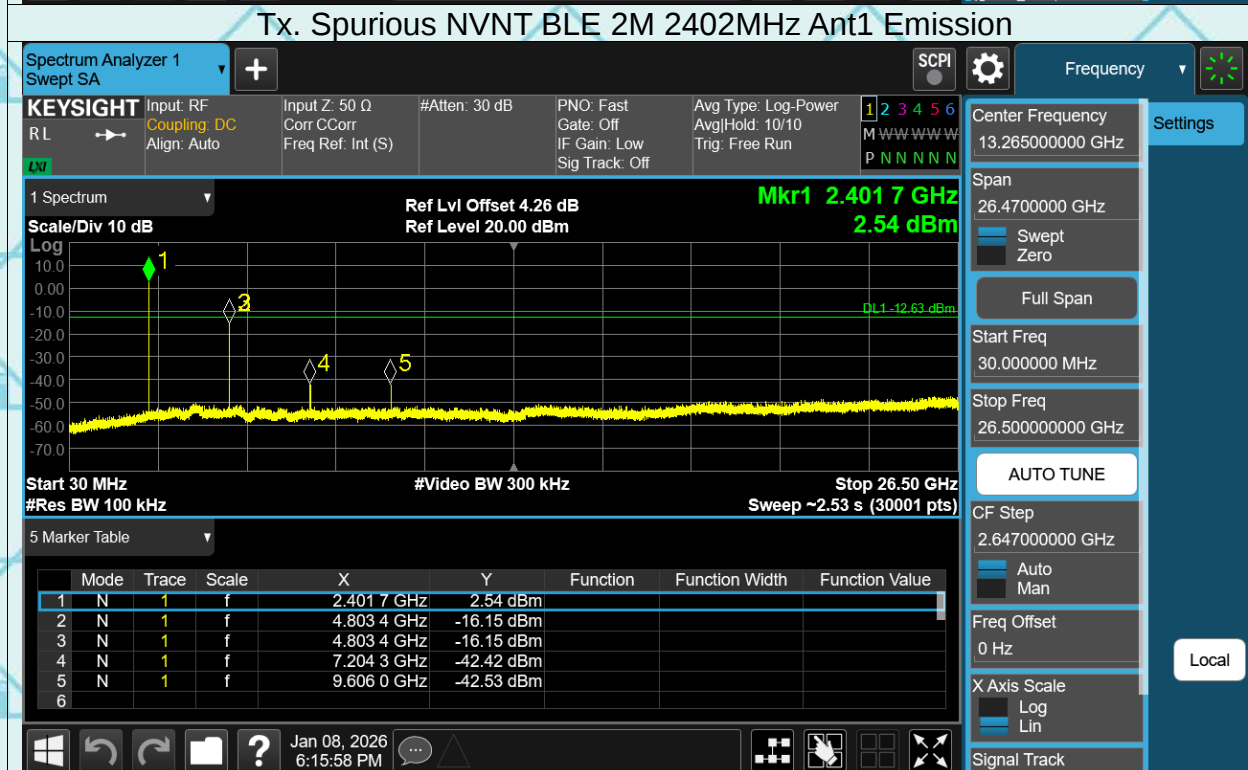
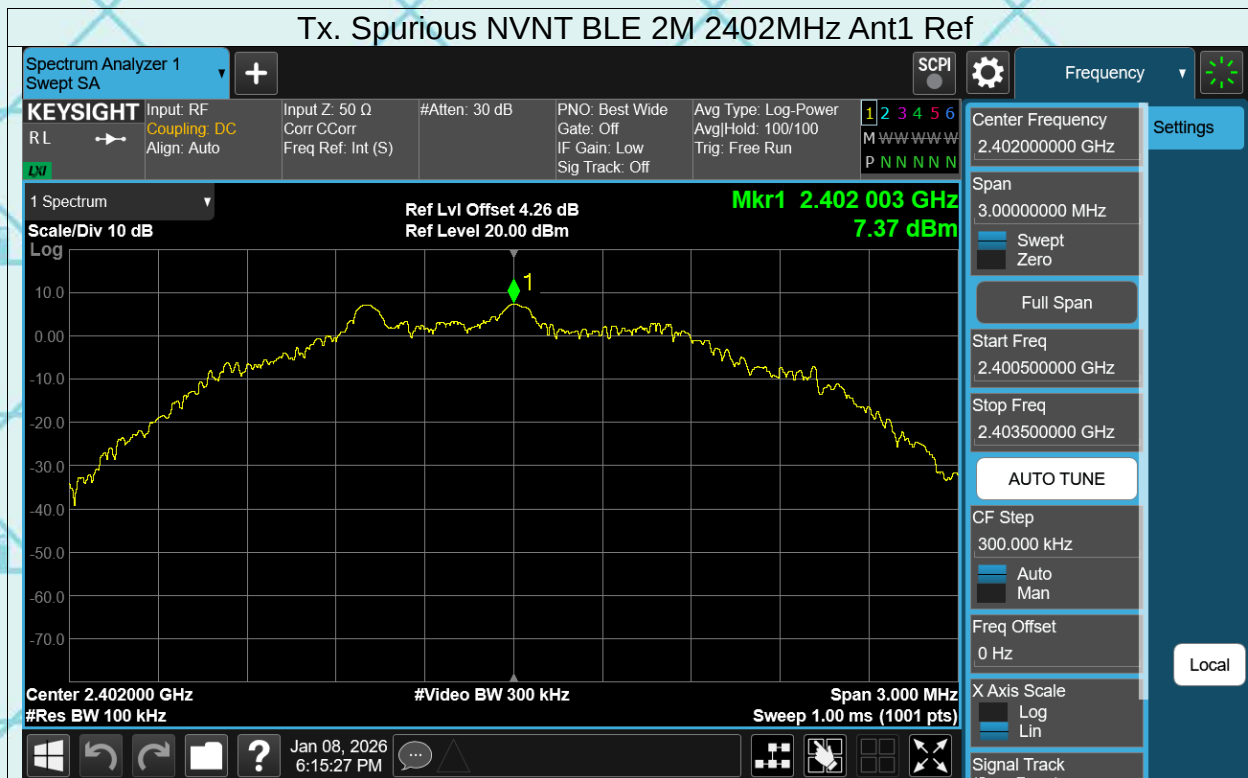
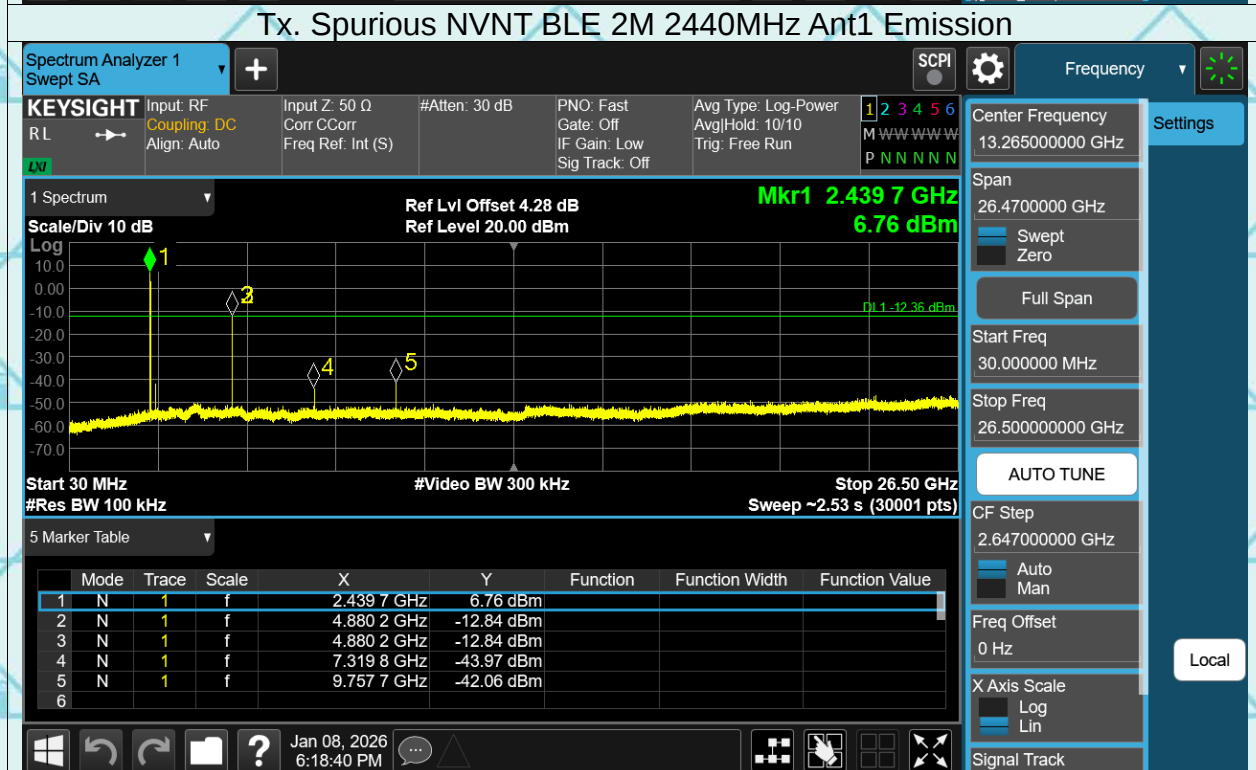
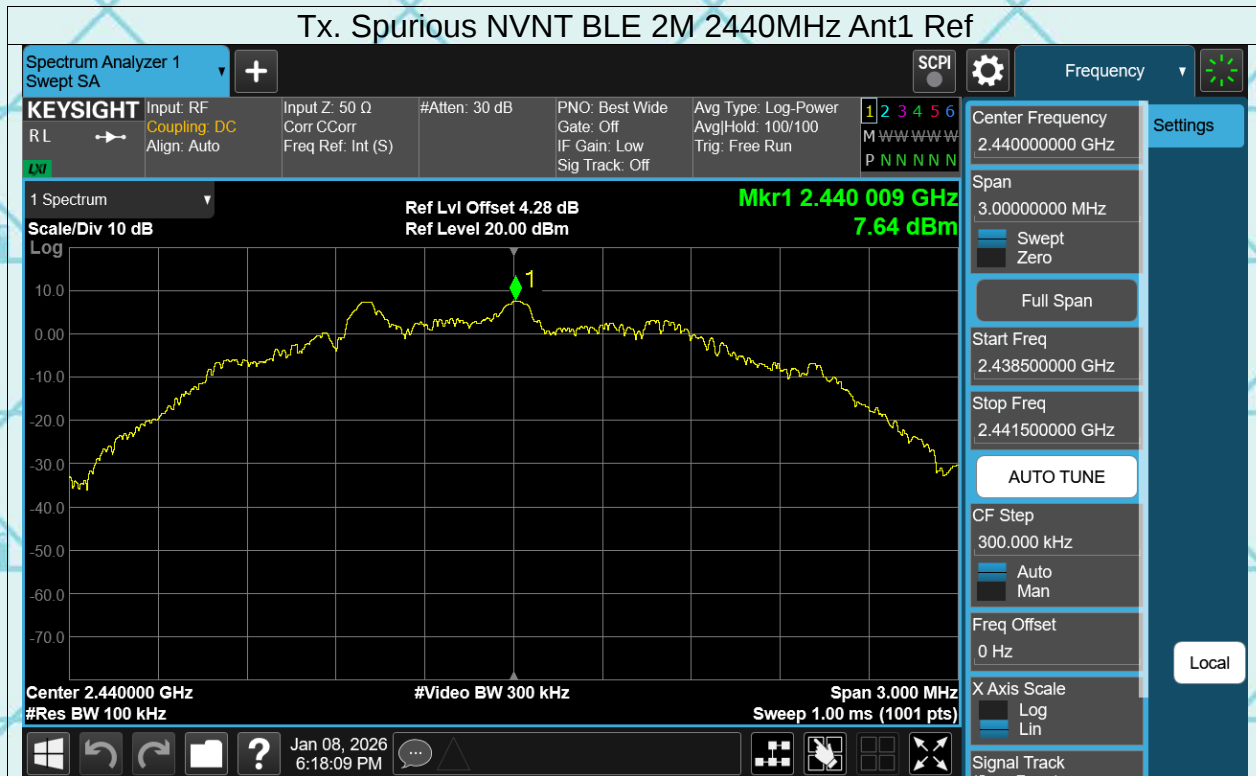
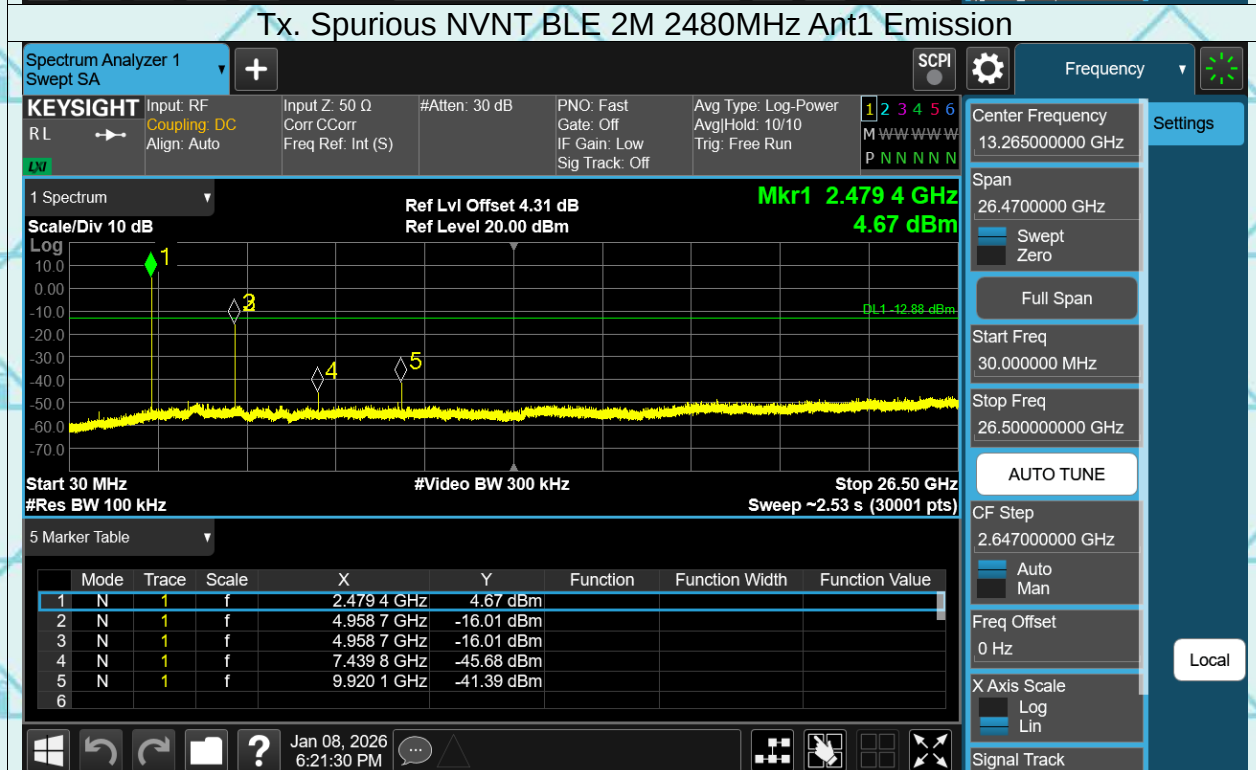
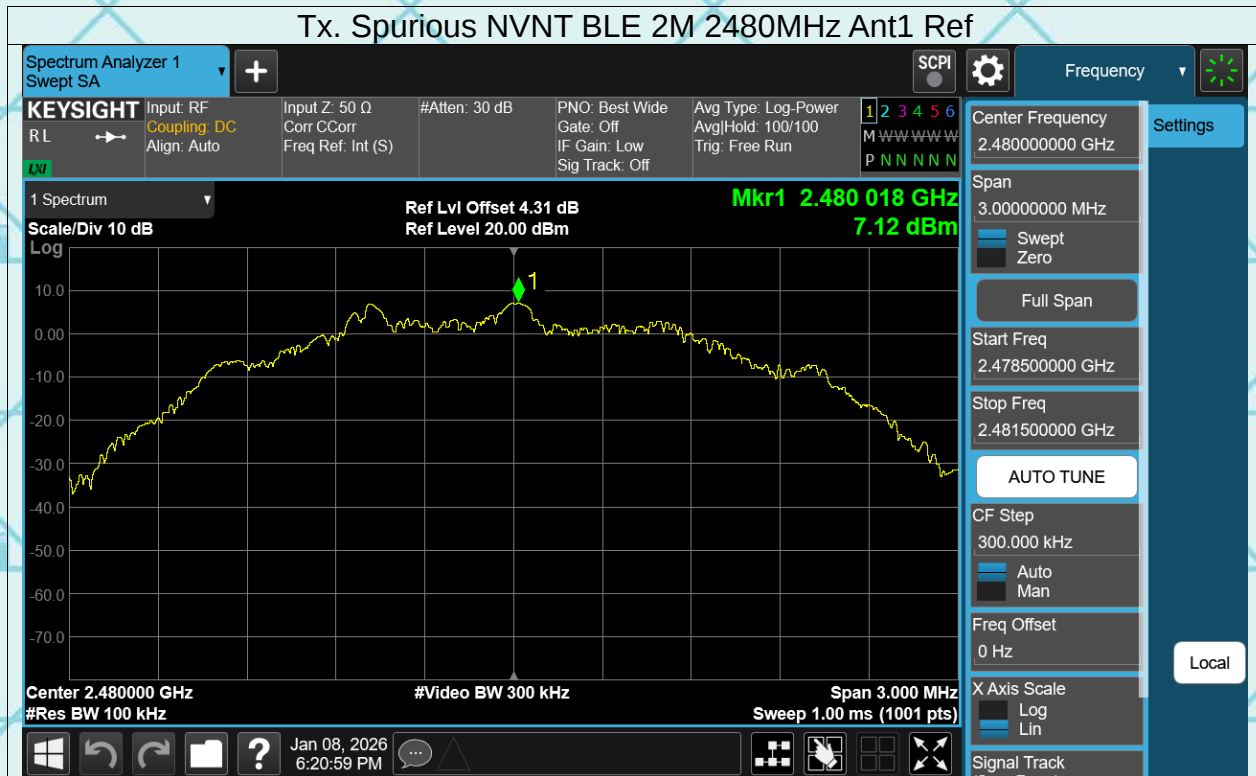






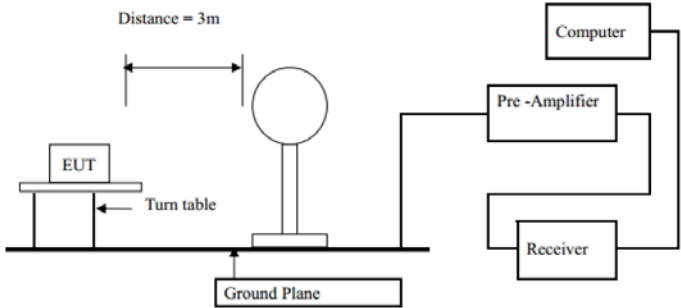


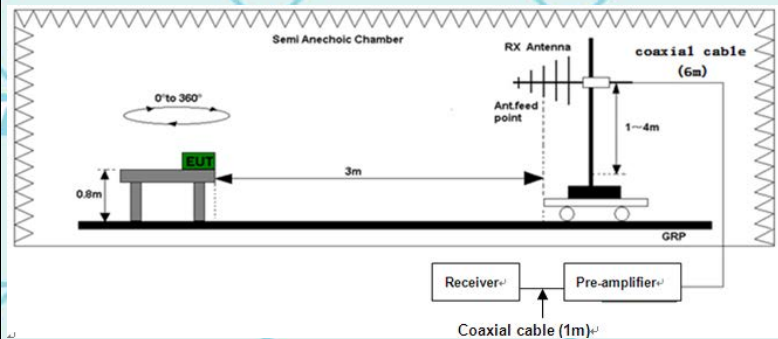




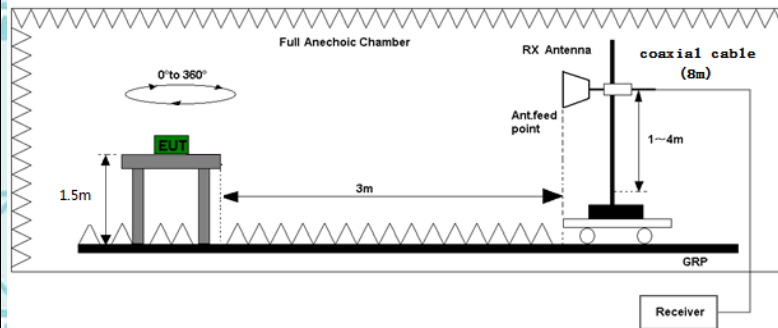
6.7. Radiated Spurious Emission Measurement

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:				Remark
				Quasi-peak Value
				Quasi-peak Value
				Quasi-peak Value
				Peak Value
Test setup:	Frequency	Field Strength (microvolts/meter)	Measurement Distance (meters)	
	0.009-0.490	2400/F(KHz)	300	
	0.490-1.705	24000/F(KHz)	30	
	1.705-30	30	30	
	30-88	100	3	
Test setup:	88-216	150	3	
	216-960	200	3	
	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 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 +

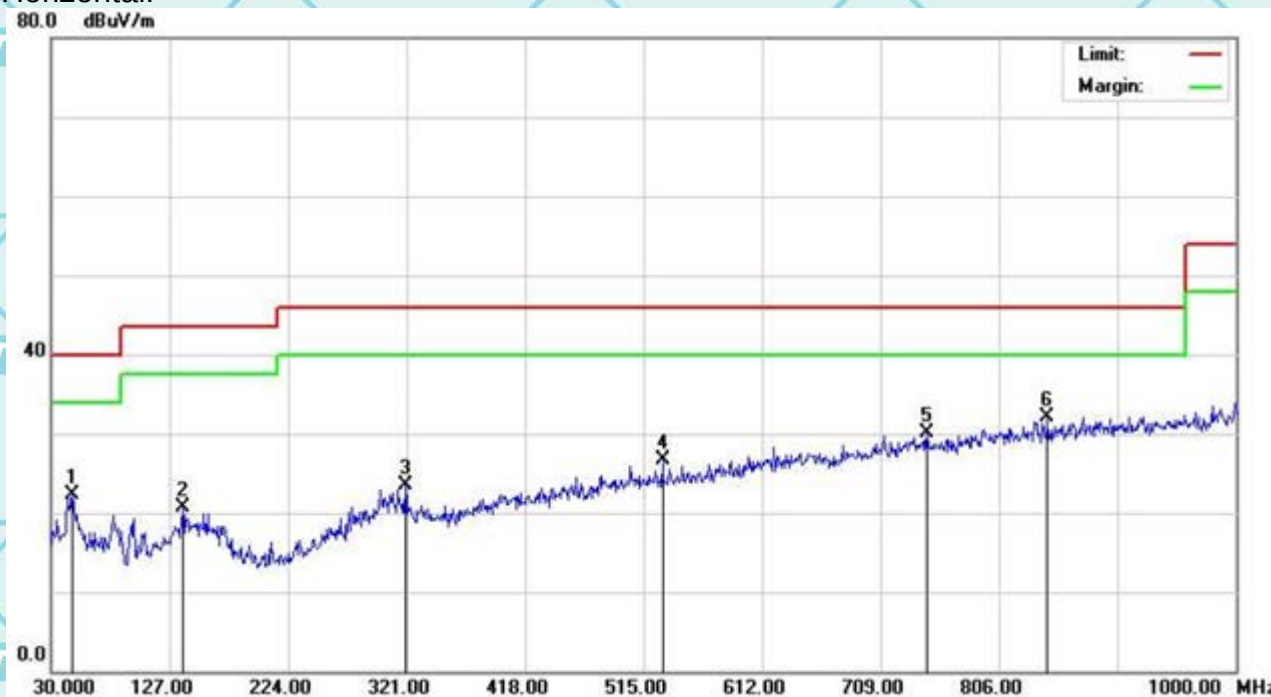
	Read Level - Preamp Factor = Level 3. For measurement below 1GHz, If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported. 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 $f \leq 1$ 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: 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)

6.7.2. Test Data(Worst case)

Please refer to following diagram for individual
Below 1GHz

The worst mode is BLE1M Low Channel
Horizontal:



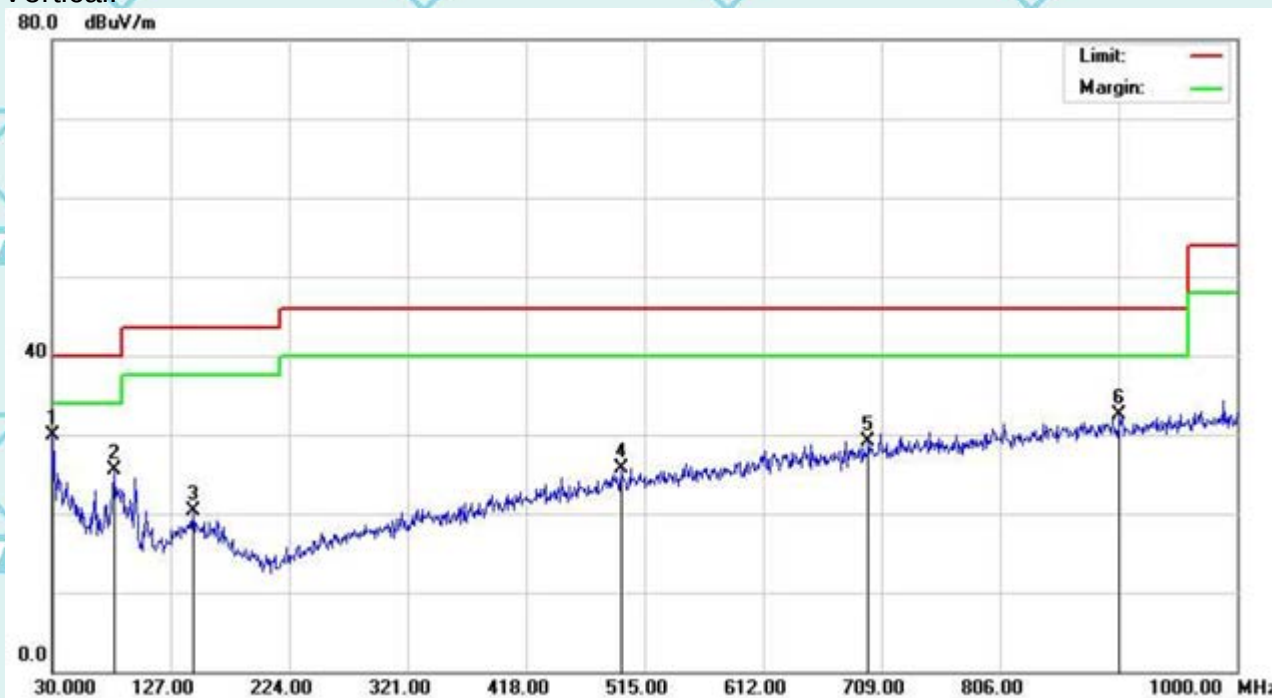
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		47.4600	30.06	-7.67	22.39	40.00	-17.61	QP
2		137.6700	28.14	-7.34	20.80	43.50	-22.70	QP
3		320.0300	29.34	-5.87	23.47	46.00	-22.53	QP
4		530.5200	27.07	-0.30	26.77	46.00	-19.23	QP
5		746.8300	26.24	3.85	30.09	46.00	-15.91	QP
6	*	845.7700	26.35	5.83	32.18	46.00	-13.82	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	*	30.9700	50.48	-20.52	29.96	40.00	-10.04	QP
2		80.4400	45.66	-20.19	25.47	40.00	-14.53	QP
3		145.4299	40.17	-19.96	20.21	43.50	-23.29	QP
4		495.6000	43.95	-18.28	25.67	46.00	-20.33	QP
5		698.3300	46.34	-17.20	29.14	46.00	-16.86	QP
6		903.9700	48.48	-15.94	32.54	46.00	-13.46	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)

Above 1GHz

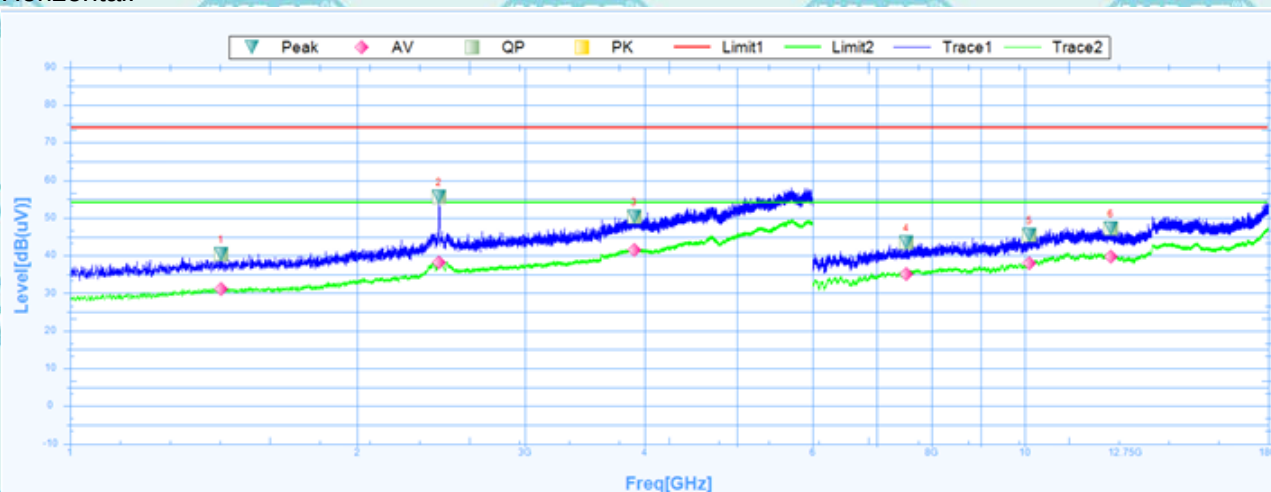
Note 1: The marked spikes near 2400 MHz with circle should be ignored because they are Fundamental signal.

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:



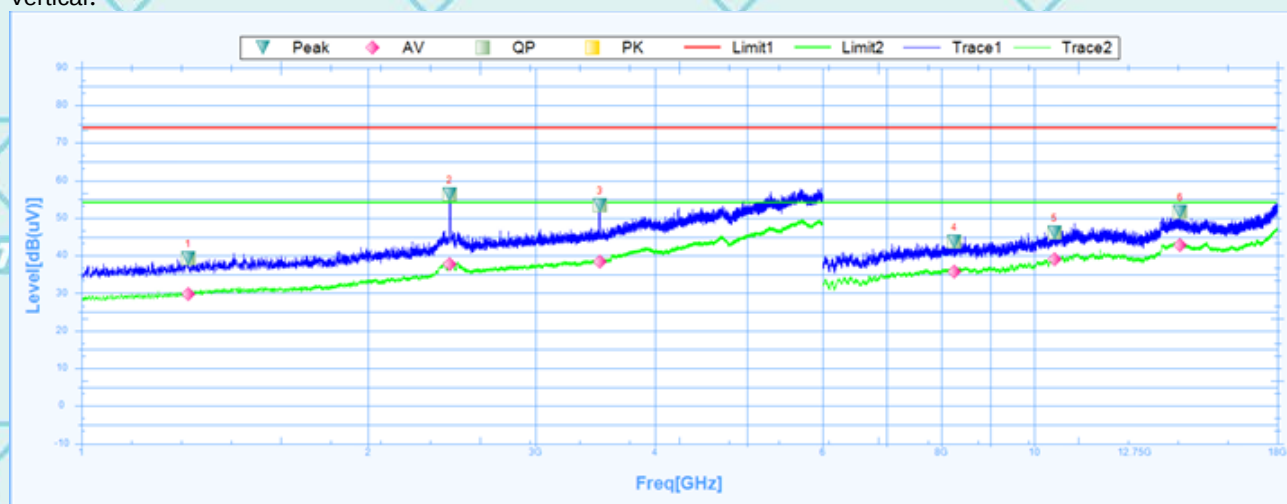
Suspected Data List

NO.	Freq. [MHz]	Level [dB(uV)]	Factor [dB]	Reading [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	1438.7500	40.35	-0.41	40.76	74	-33.65	125.2	Horizontal	PK	Pass
1	1438.7500	31.1	-0.41	31.51	54	-22.9	125.2	Horizontal	AV	Pass
2	2435.6250	55.69	7.69	48	74	-18.31	149.1	Horizontal	PK	Pass
2	2435.6250	38.1	7.69	30.41	54	-15.9	149.1	Horizontal	AV	Pass
3	3901.2500	50.32	11.74	38.58	74	-23.68	194.6	Horizontal	PK	Pass
3	3901.2500	41.51	11.74	29.77	54	-12.49	194.6	Horizontal	AV	Pass
4	7518.0000	43.38	36.28	7.1	74	-30.62	62.6	Horizontal	PK	Pass
4	7518.0000	35.12	36.28	-1.16	54	-18.88	62.6	Horizontal	AV	Pass
5	10122.0000	45.47	38.27	7.2	74	-28.53	133.1	Horizontal	PK	Pass
5	10122.0000	37.98	38.27	-0.29	54	-16.02	133.1	Horizontal	AV	Pass
6	12309.0000	47.12	38.69	8.43	74	-26.88	216.8	Horizontal	PK	Pass
6	12309.0000	39.75	38.69	1.06	54	-14.25	216.8	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	1293.7500	39.26	-1.31	40.57	74	-34.74	242.4	Vertical	PK	Pass
1	1293.7500	29.82	-1.31	31.13	54	-24.18	242.4	Vertical	AV	Pass
2	2435.6250	56.26	7.69	48.57	74	-17.74	16.5	Vertical	PK	Pass
2	2435.6250	37.75	7.69	30.06	54	-16.25	16.5	Vertical	AV	Pass
3	3503.1250	53.35	9.67	43.68	74	-20.65	314.1	Vertical	PK	Pass
3	3503.1250	38.44	9.67	28.77	54	-15.56	314.1	Vertical	AV	Pass
4	8248.5000	43.69	37.1	6.59	74	-30.31	5.4	Vertical	PK	Pass
4	8248.5000	35.83	37.1	-1.27	54	-18.17	5.4	Vertical	AV	Pass
5	10503.0000	46.15	38.8	7.35	74	-27.85	157	Vertical	PK	Pass
5	10503.0000	38.97	38.8	0.17	54	-15.03	157	Vertical	AV	Pass
6	14236.5000	51.68	41.19	10.49	74	-22.32	359.9	Vertical	PK	Pass
6	14236.5000	42.74	41.19	1.55	54	-11.26	359.9	Vertical	AV	Pass

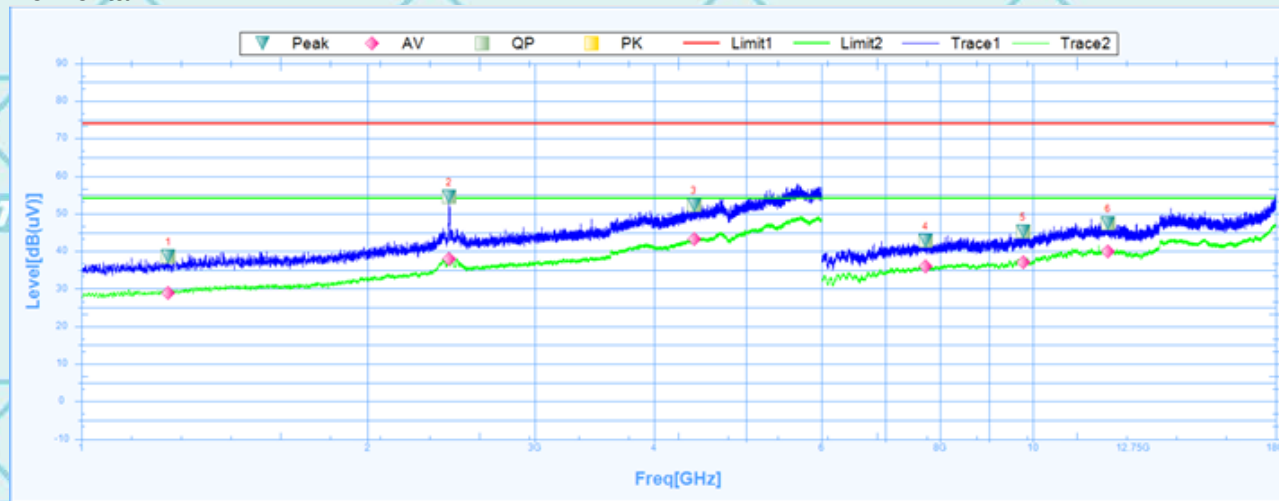
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Revised: None

Middle channel: 2440MHz

Horizontal:



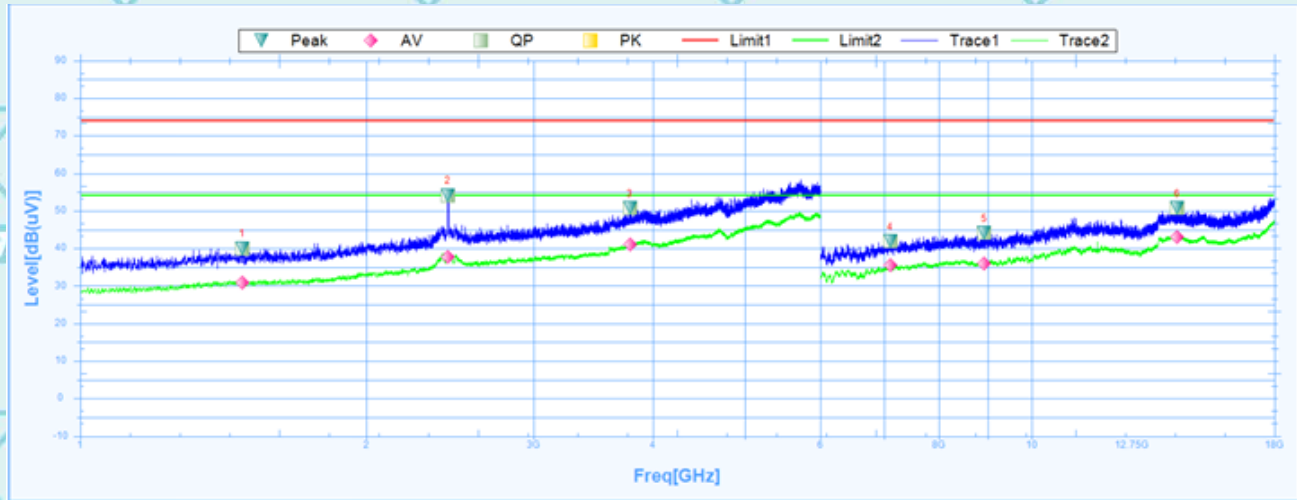
Suspected Data List

NO.	Freq. [MHz]	Level [dB(uV)]	Factor [dB]	Reading [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	1235.0000	38.63	-1.69	40.32	74	-35.37	-0.1	Horizontal	PK	Pass
1	1235.0000	28.95	-1.69	30.64	54	-25.05	-0.1	Horizontal	AV	Pass
2	2436.2500	54.58	7.69	46.89	74	-19.42	168.2	Horizontal	PK	Pass
2	2436.2500	37.92	7.69	30.23	54	-16.08	168.2	Horizontal	AV	Pass
3	4405.6250	52.23	13.8	38.43	74	-21.77	339.9	Horizontal	PK	Pass
3	4405.6250	43.27	13.8	29.47	54	-10.73	339.9	Horizontal	AV	Pass
4	7717.5000	42.8	36.58	6.22	74	-31.2	244.4	Horizontal	PK	Pass
4	7717.5000	35.91	36.58	-0.67	54	-18.09	244.4	Horizontal	AV	Pass
5	9769.5000	45.17	37.94	7.23	74	-28.83	129.6	Horizontal	PK	Pass
5	9769.5000	36.97	37.94	-0.97	54	-17.03	129.6	Horizontal	AV	Pass
6	11998.5000	47.53	38.6	8.93	74	-26.47	358.1	Horizontal	PK	Pass
6	11998.5000	39.83	38.6	1.23	54	-14.17	358.1	Horizontal	AV	Pass

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Revised: None

Vertical:

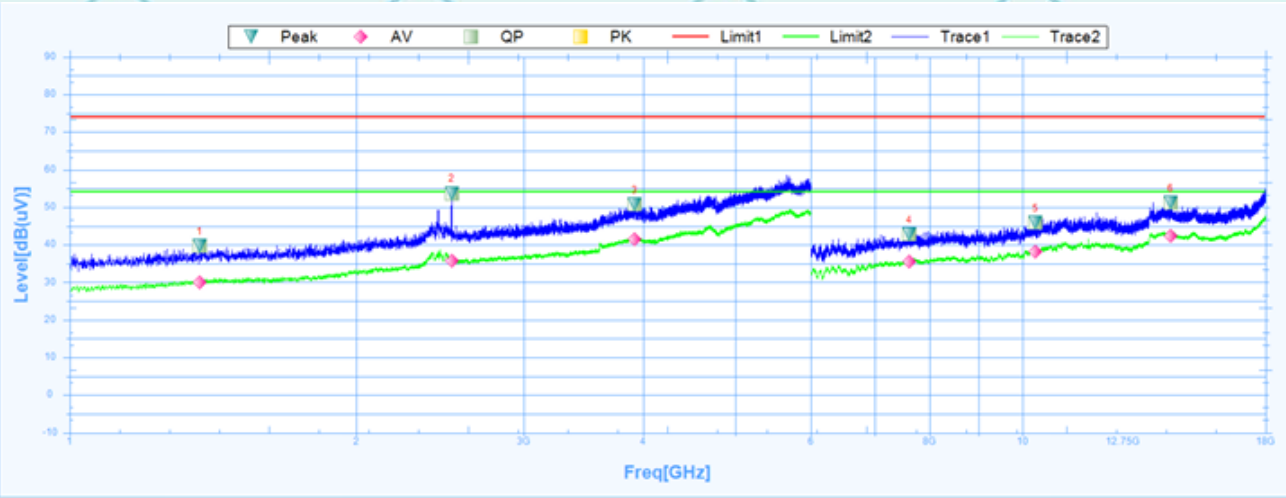


Suspected Data List

NO.	Freq. [MHz]	Level [dB(uV)]	Factor [dB]	Reading [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	1480.0000	40.04	-0.25	40.29	74	-33.96	168.3	Vertical	PK	Pass
1	1480.0000	30.81	-0.25	31.06	54	-23.19	168.3	Vertical	AV	Pass
2	2435.6250	54.17	7.69	46.48	74	-19.83	0	Vertical	PK	Pass
2	2435.6250	37.83	7.69	30.14	54	-16.17	0	Vertical	AV	Pass
3	3783.7500	50.69	10.9	39.79	74	-23.31	0	Vertical	PK	Pass
3	3783.7500	40.95	10.9	30.05	54	-13.05	0	Vertical	AV	Pass
4	7102.5000	41.95	35.65	6.3	74	-32.05	246.7	Vertical	PK	Pass
4	7102.5000	35.42	35.65	-0.23	54	-18.58	246.7	Vertical	AV	Pass
5	8922.0000	44.04	37.37	6.67	74	-29.96	139.1	Vertical	PK	Pass
5	8922.0000	35.99	37.37	-1.38	54	-18.01	139.1	Vertical	AV	Pass
6	14232.0000	50.7	41.2	9.5	74	-23.3	81.8	Vertical	PK	Pass
6	14232.0000	43	41.2	1.8	54	-11	81.8	Vertical	AV	Pass

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High channel: 2480MHz
Horizontal:

Revised: None



Susputed Data List

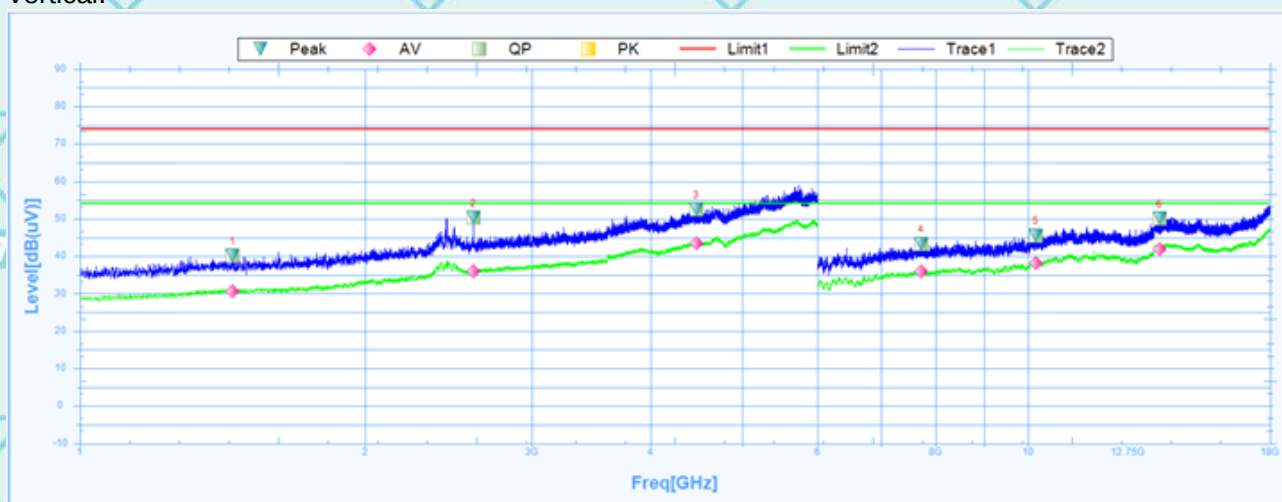
NO.	Freq. [MHz]	Level [dB(uV)]	Factor [dB]	Reading [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	1369.3750	39.76	-0.66	40.42	74	-34.24	-0.1	Horizontal	PK	Pass
1	1369.3750	30.04	-0.66	30.7	54	-23.96	-0.1	Horizontal	AV	Pass
2	2518.1250	53.73	6.67	47.06	74	-20.27	135.9	Horizontal	PK	Pass
2	2518.1250	35.83	6.67	29.16	54	-18.17	135.9	Horizontal	AV	Pass
3	3920.0000	50.72	11.9	38.82	74	-23.28	118	Horizontal	PK	Pass
3	3920.0000	41.47	11.9	29.57	54	-12.53	118	Horizontal	AV	Pass
4	7609.5000	42.82	36.41	6.41	74	-31.18	255.1	Horizontal	PK	Pass
4	7609.5000	35.51	36.41	-0.9	54	-18.49	255.1	Horizontal	AV	Pass
5	10329.0000	45.93	38.56	7.37	74	-28.07	335.2	Horizontal	PK	Pass
5	10329.0000	38.22	38.56	-0.34	54	-15.78	335.2	Horizontal	AV	Pass
6	14313.0000	51.23	41.09	10.14	74	-22.77	44.7	Horizontal	PK	Pass
6	14313.0000	42.43	41.09	1.34	54	-11.57	44.7	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	1449.3750	40.16	-0.36	40.52	74	-33.84	207.6	Vertical	PK	Pass
1	1449.3750	30.63	-0.36	30.99	54	-23.37	207.6	Vertical	AV	Pass
2	2601.2500	50.33	6.26	44.07	74	-23.67	333.1	Vertical	PK	Pass
2	2601.2500	35.96	6.26	29.7	54	-18.04	333.1	Vertical	AV	Pass
3	4469.3750	52.6	13.98	38.62	74	-21.4	82.2	Vertical	PK	Pass
3	4469.3750	43.41	13.98	29.43	54	-10.59	82.2	Vertical	AV	Pass
4	7714.5000	43.36	36.57	6.79	74	-30.64	140.3	Vertical	PK	Pass
4	7714.5000	35.89	36.57	-0.68	54	-18.11	140.3	Vertical	AV	Pass
5	10194.0000	45.56	38.37	7.19	74	-28.44	234.8	Vertical	PK	Pass
5	10194.0000	38.22	38.37	-0.15	54	-15.78	234.8	Vertical	AV	Pass
6	13770.0000	50.18	40.9	9.28	74	-23.82	109.3	Vertical	PK	Pass
6	13770.0000	41.88	40.9	0.98	54	-12.12	109.3	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.

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	62.36	-8.76	53.60	74	20.40	H	PK
2390	53.15	-8.76	44.39	54	9.61	H	AV
2390	59.88	-8.73	51.15	74	22.85	V	PK
2390	54.99	-8.73	46.26	54	7.74	V	AV
High Channel							
2483.5	64.53	-8.76	55.77	74	18.23	H	PK
2483.5	53.25	-8.76	44.49	54	9.51	H	AV
2483.5	60.35	-8.73	51.62	74	22.38	V	PK
2483.5	54.65	-8.73	45.92	54	8.08	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)

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