

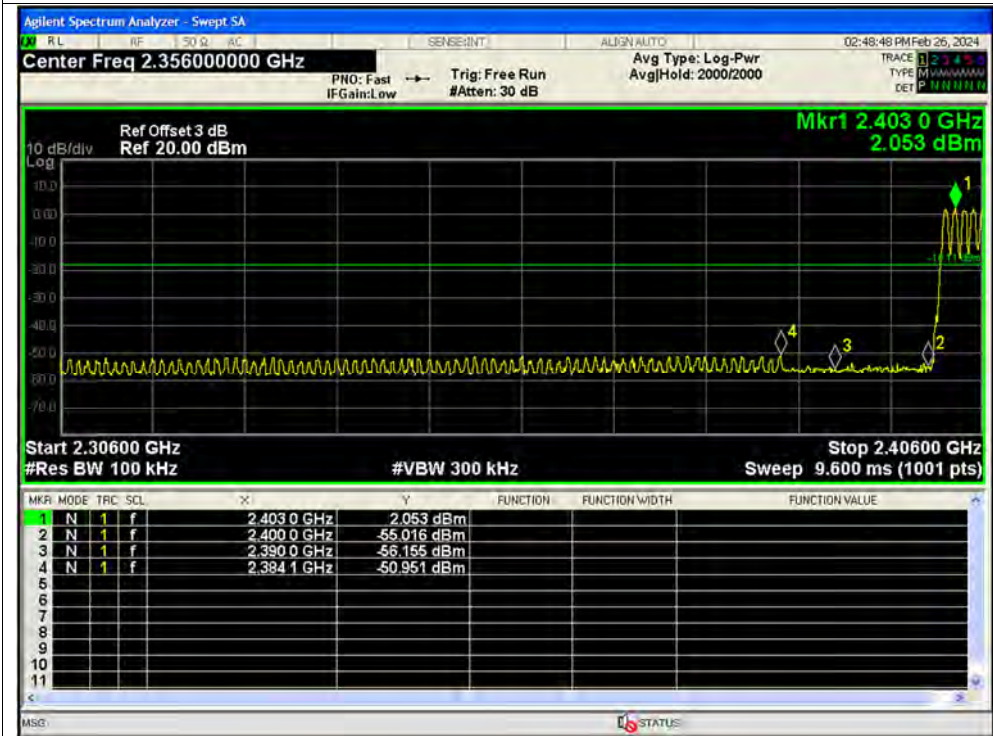


Test Graphs

Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Ref



Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Emission

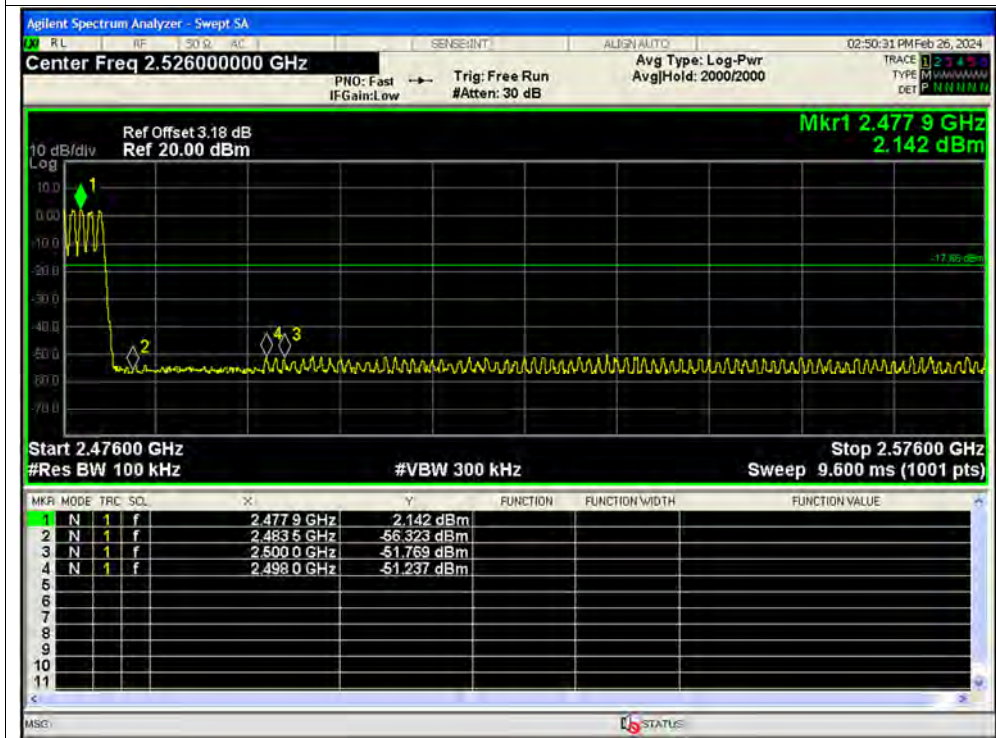




Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Ref



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

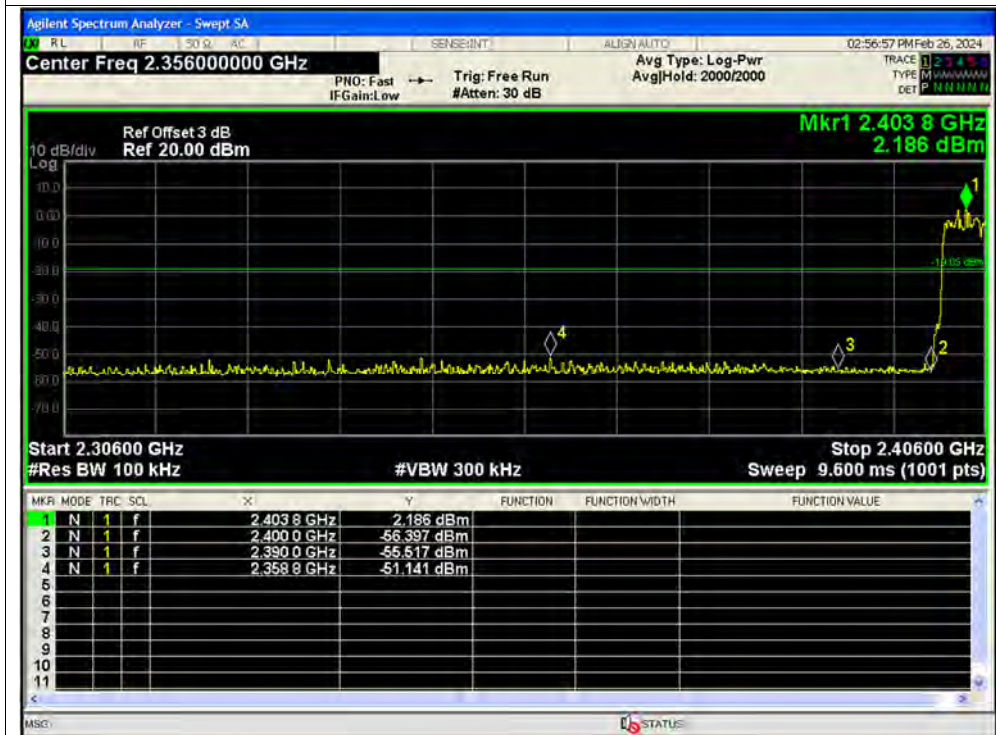




Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Ref



Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Emission

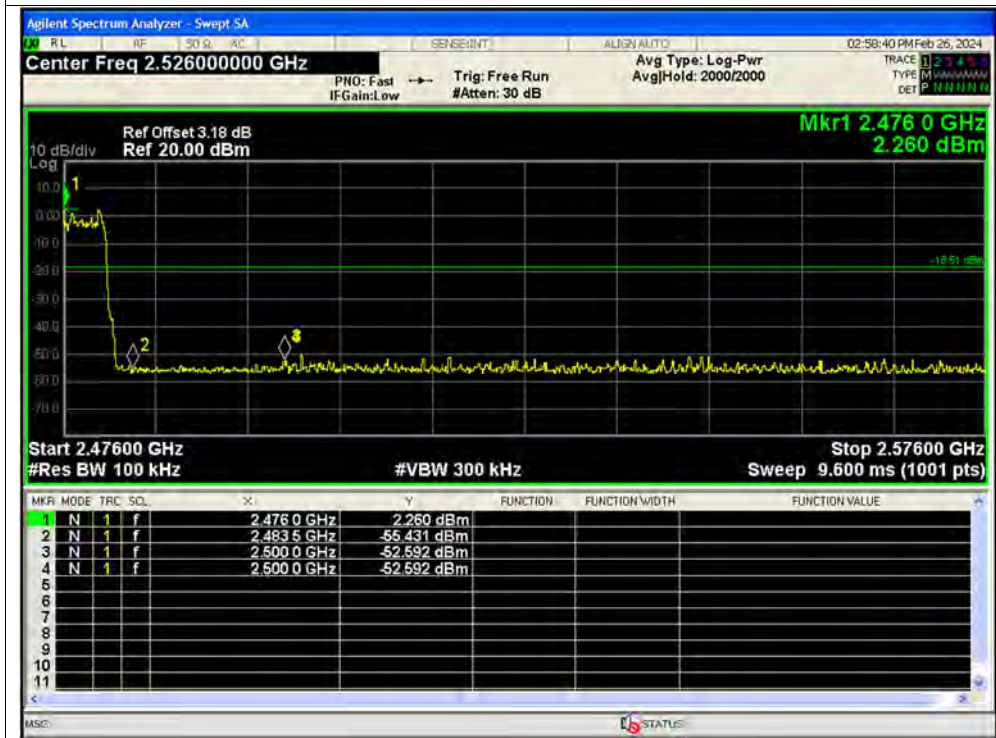


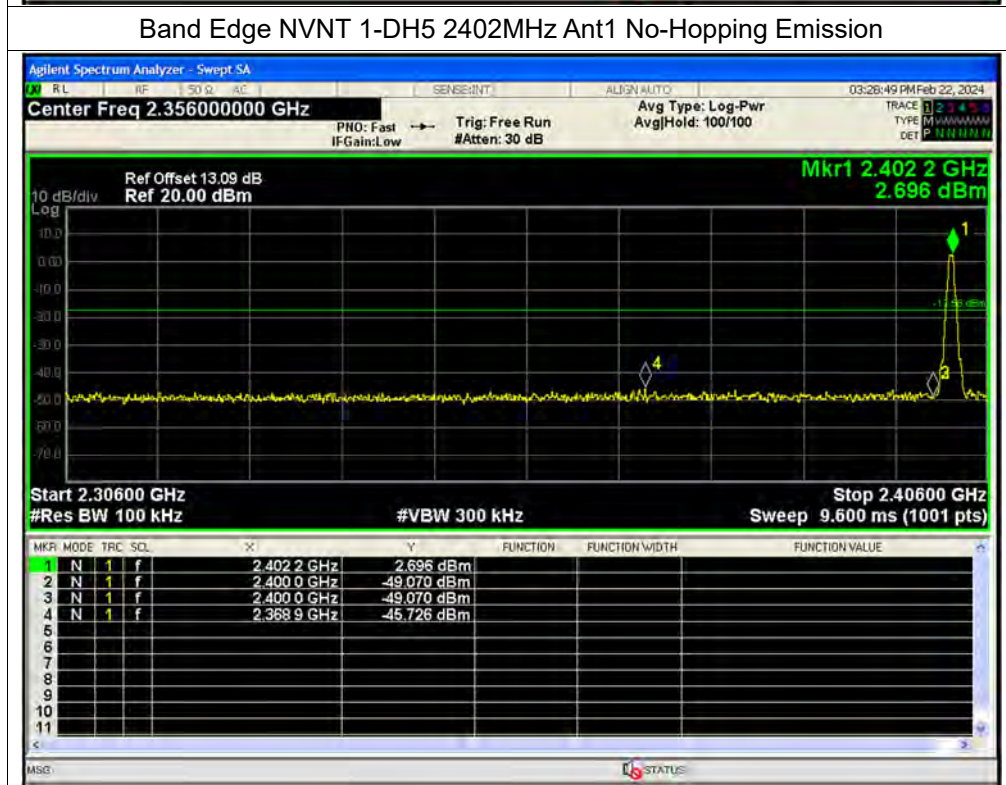
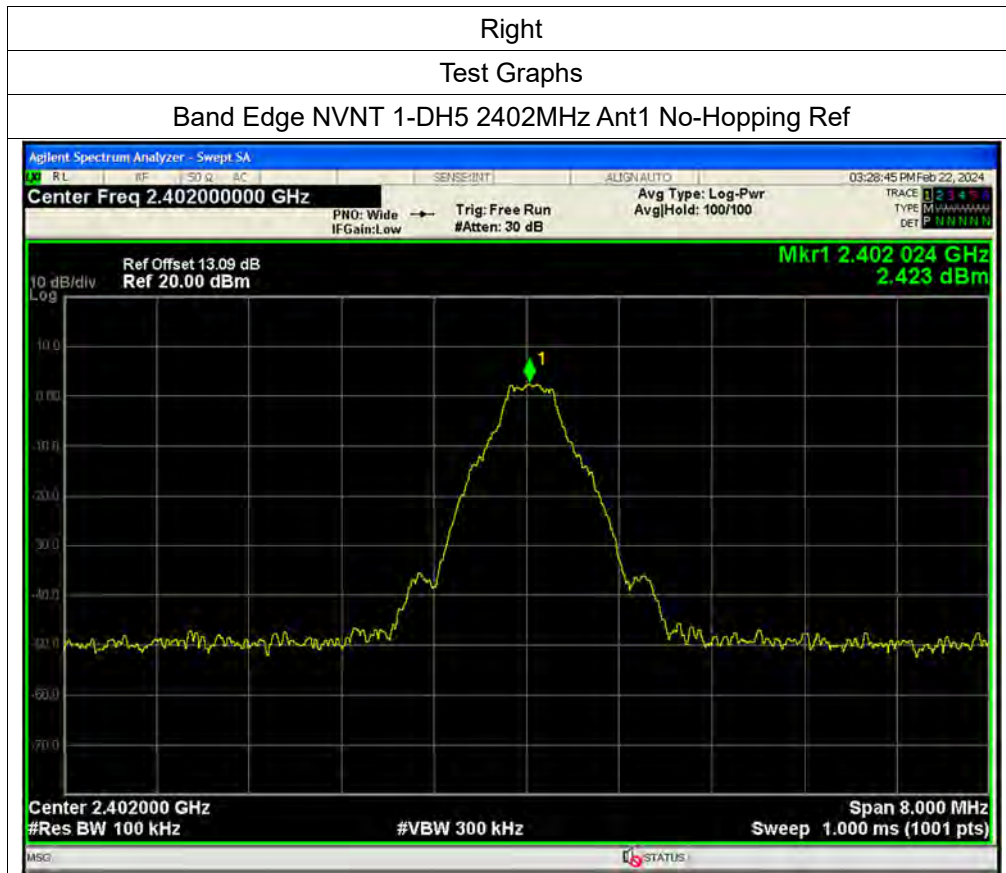


Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Ref



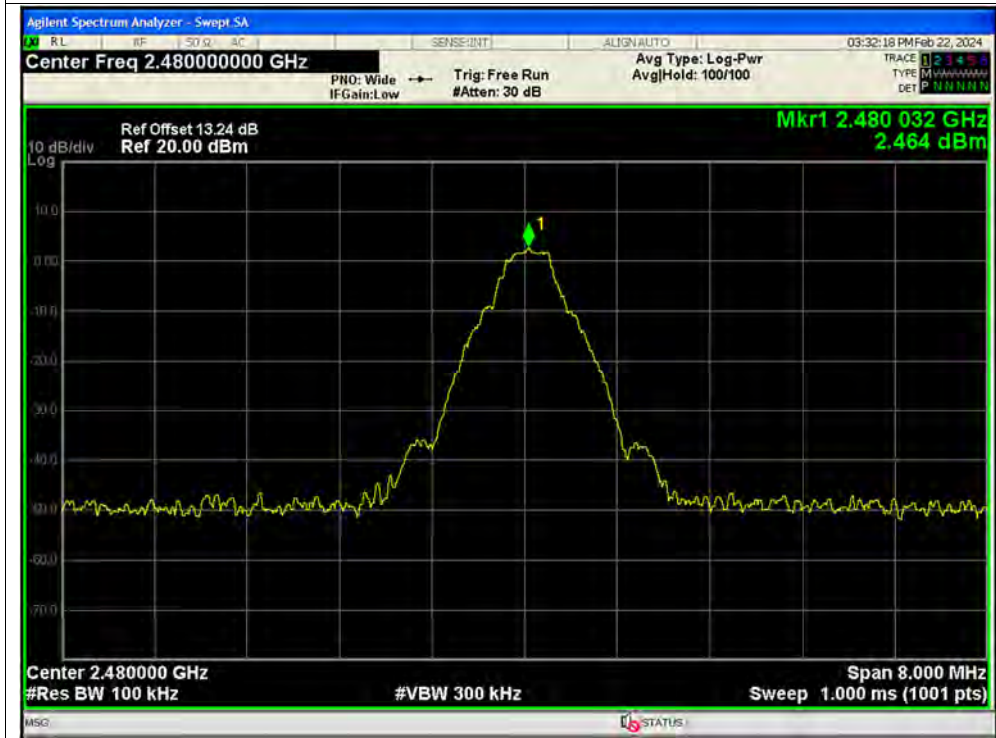
Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Emission



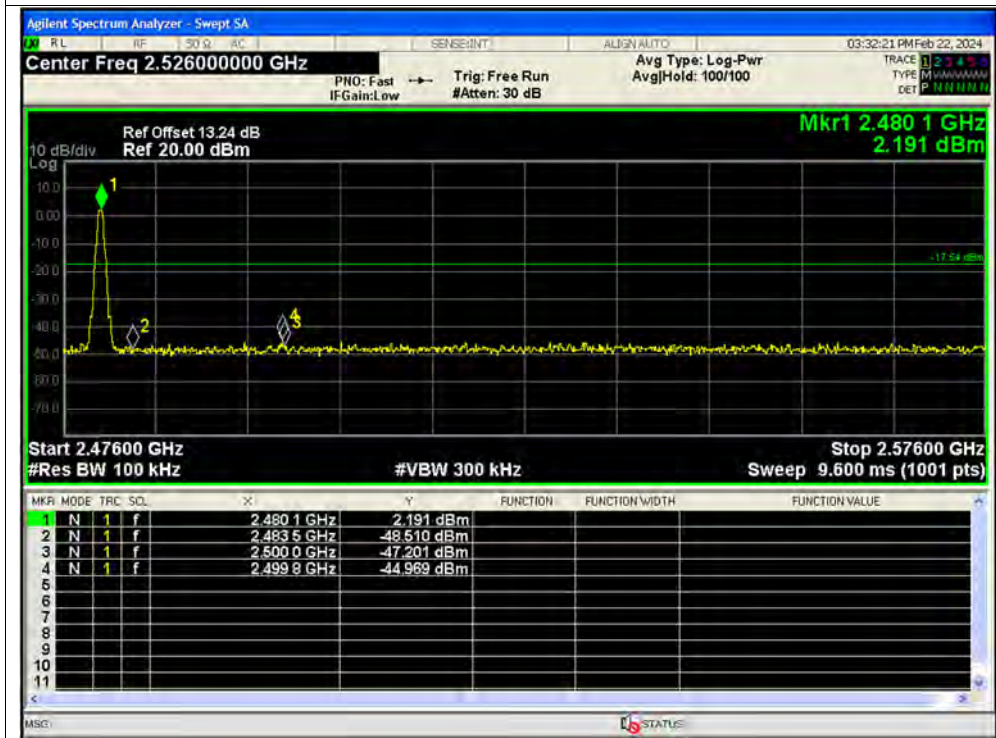




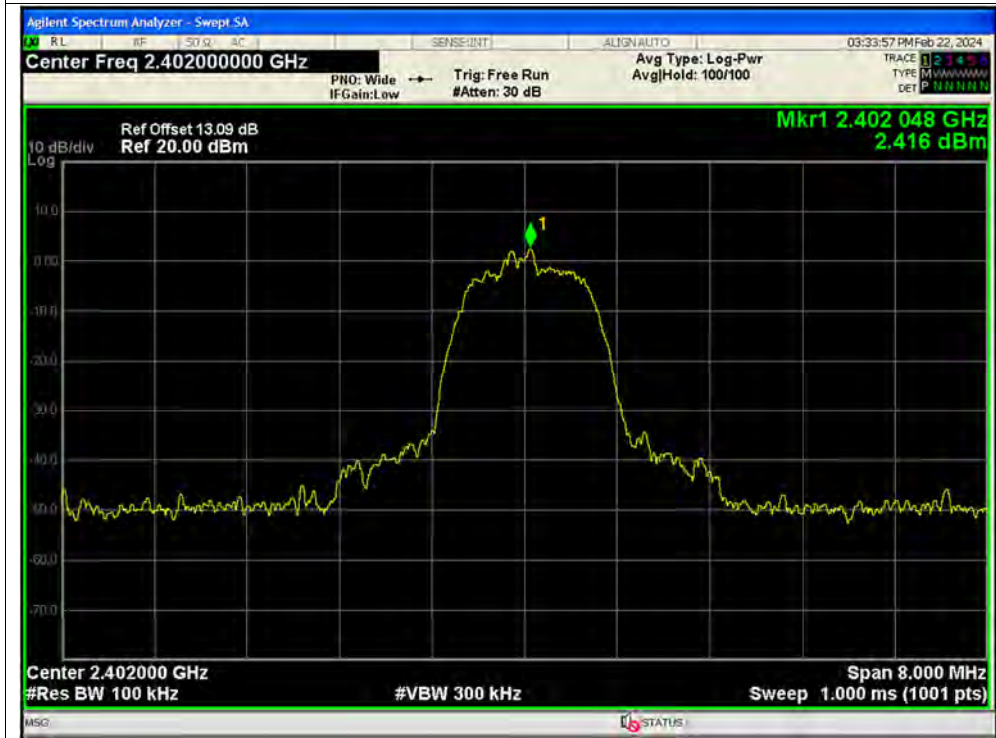
Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref



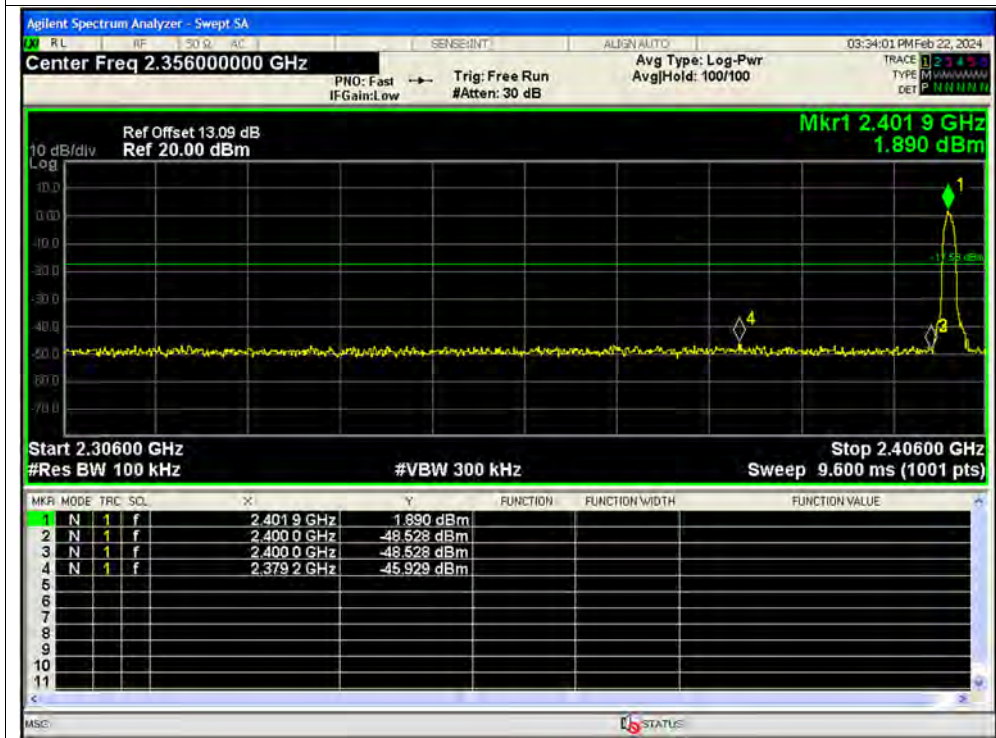
Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Emission



Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref

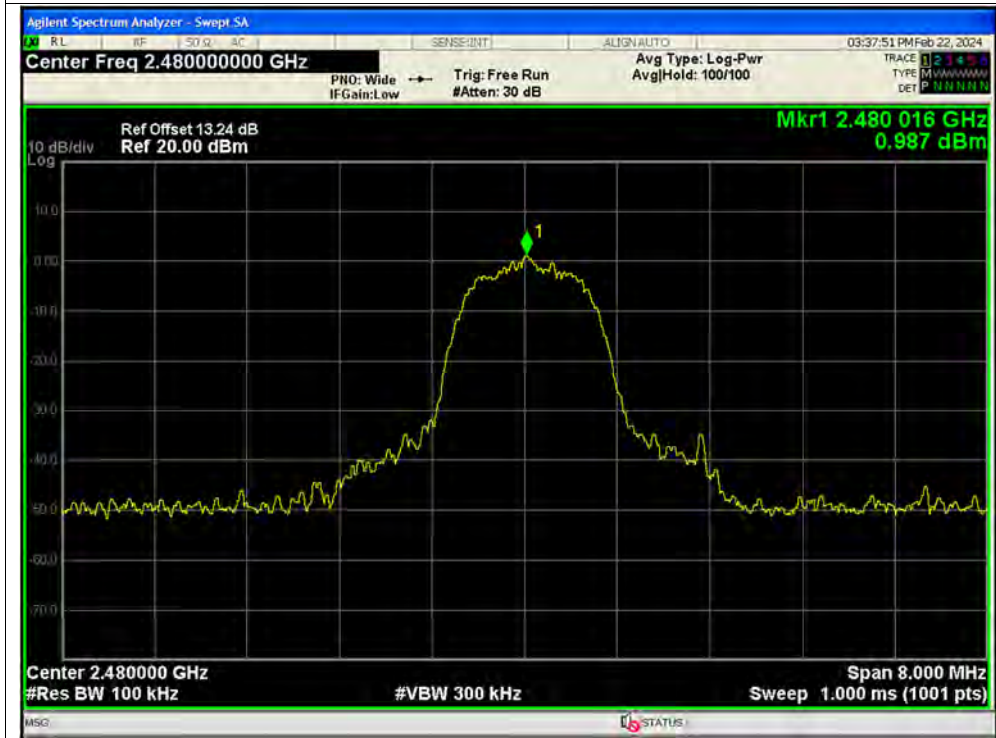


Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission

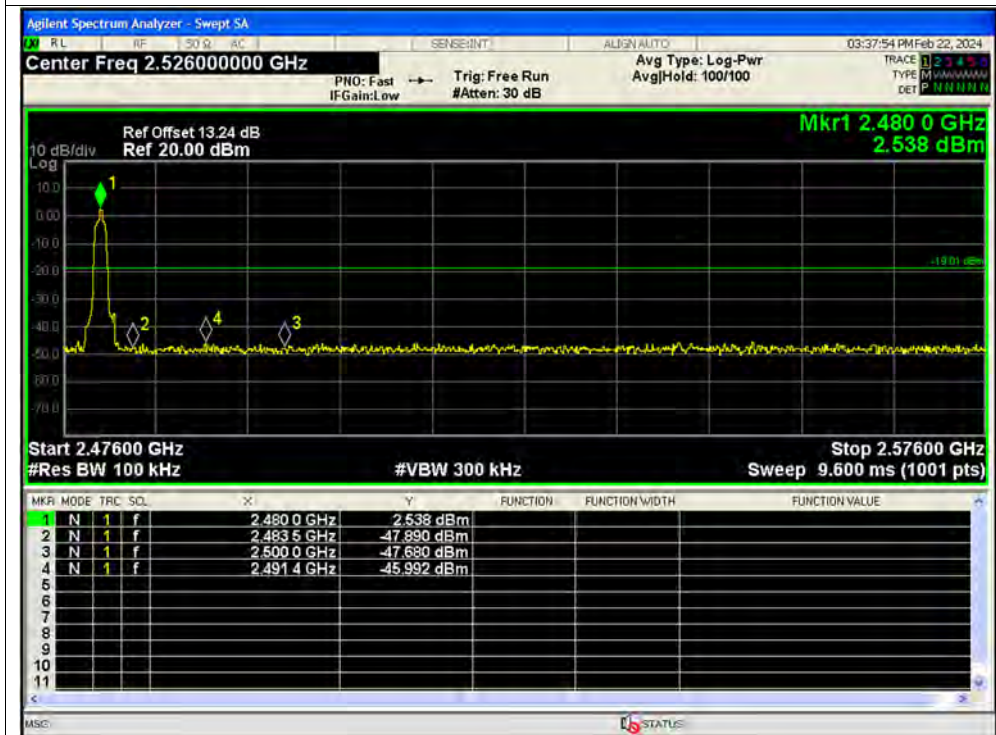




Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref



Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Emission



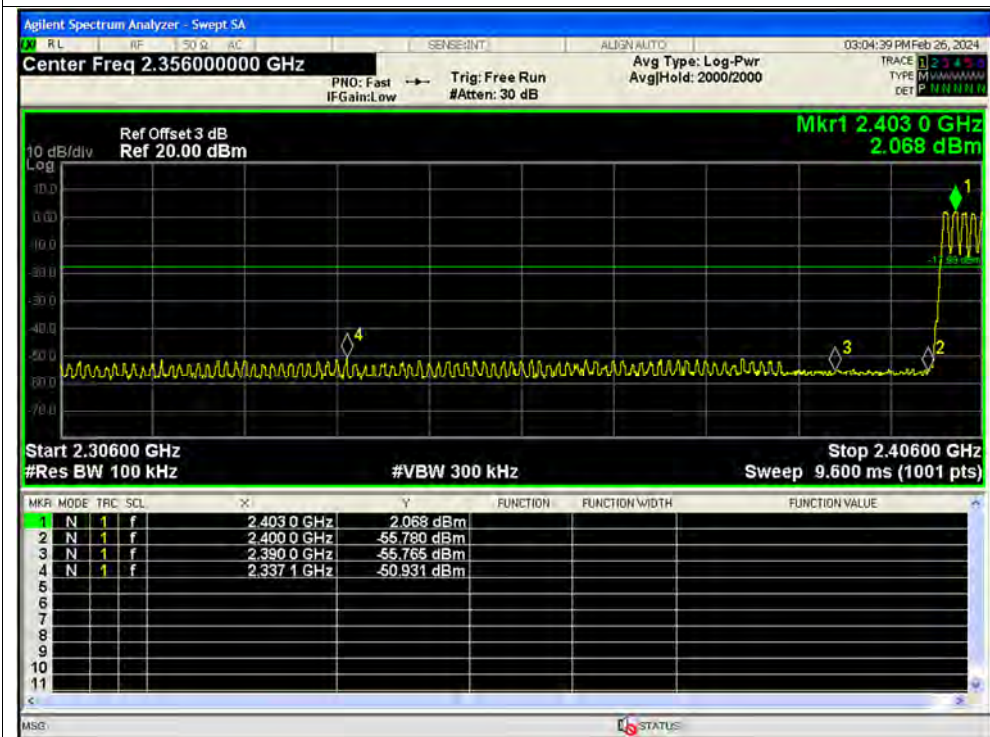


Test Graphs

Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Ref



Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Emission

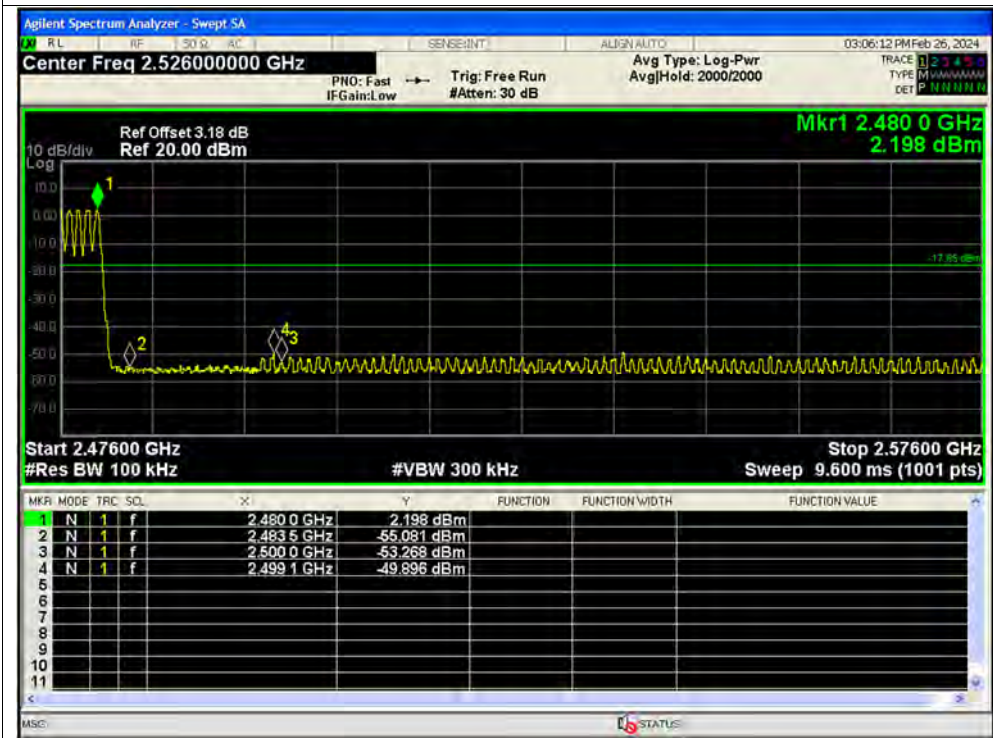




Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Ref



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

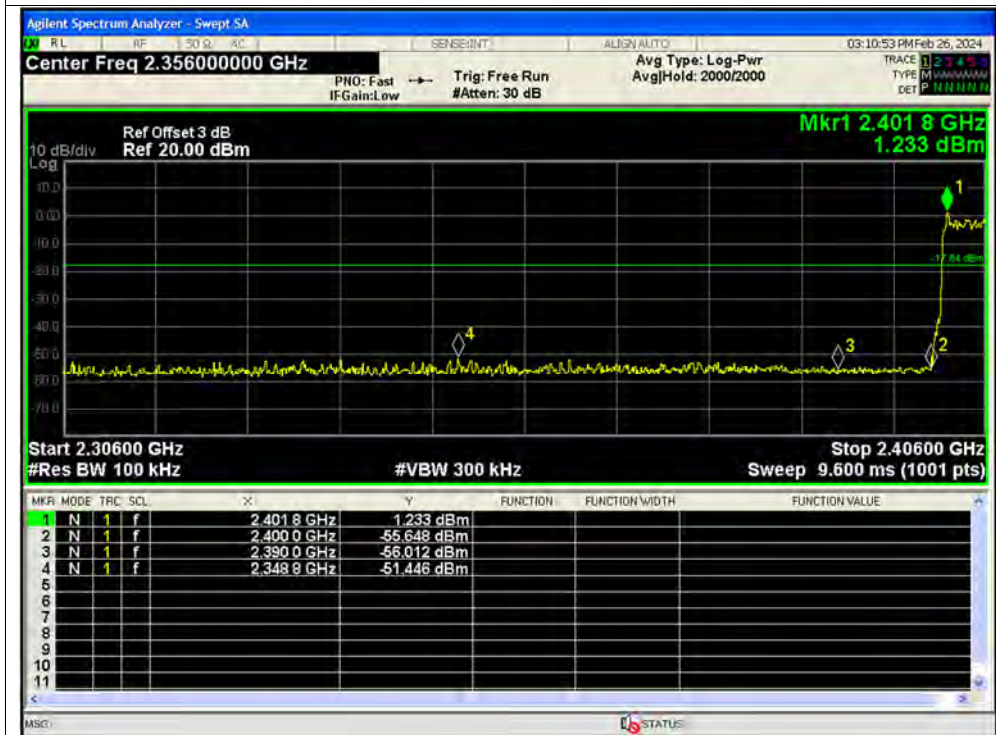




Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Ref



Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Emission

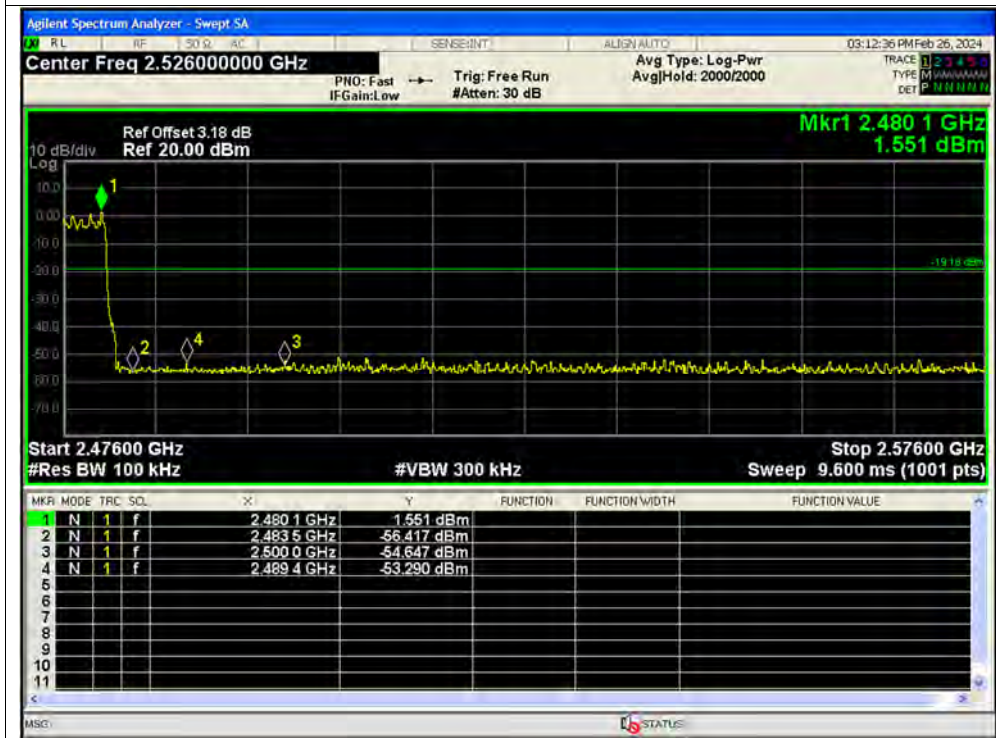




Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Ref



Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Emission





A.10. Conducted Emission

The maximum conducted interference is searched using Peak (PK), if the emission levels more than the AV and QP limits, and that have narrow margins from the AV and QP limits will be re-measured with AV and QP detectors. Tests for both L phase and N phase lines of the power mains connected to the EUT are performed. Set RBW=9kHz, VBW=30kHz. Refer to recorded points and plots below.

Note: Both of the test voltage AC 120V/60Hz and AC 230V/50Hz were considered and tested respectively, only the results of the worst case AC 120V/60Hz were recorded in this report.

A. Test Setup:

Test Mode: EUT + PC Adapter + PC + BT TX

Test voltage: AC 120V/60Hz

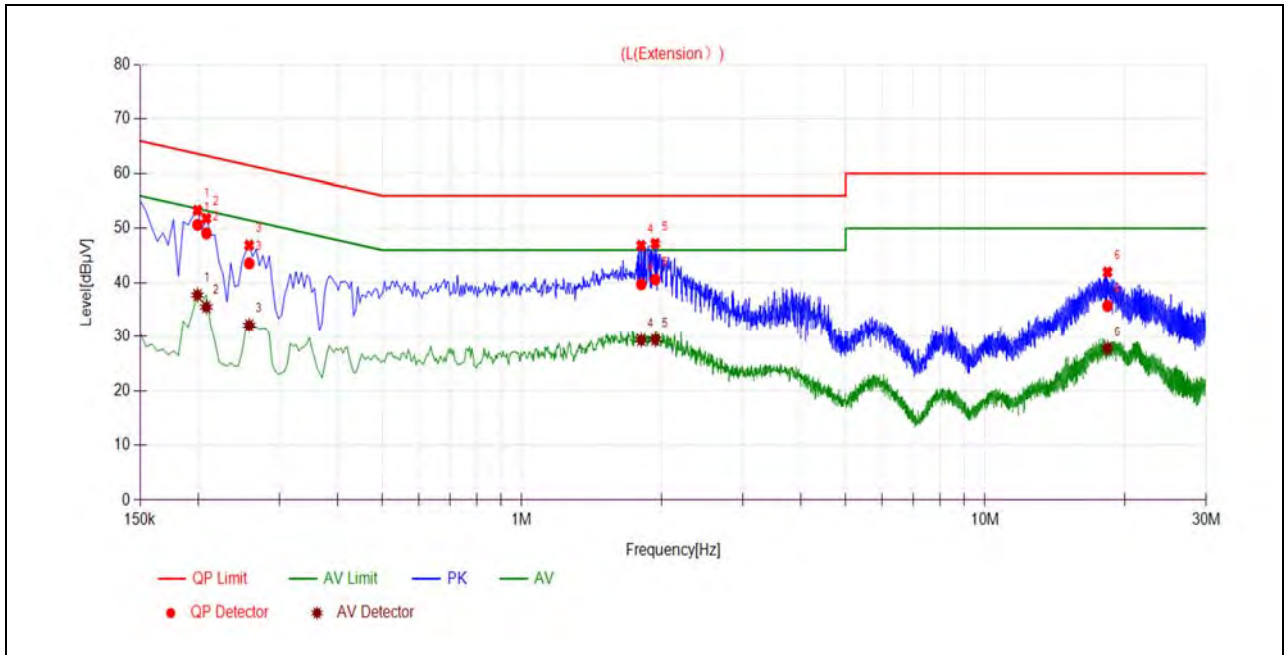
The measurement results are obtained as below:

$$E \text{ [dB}\mu\text{V]} = U_R + L_{\text{Cable loss}} \text{ [dB]} + A_{\text{Factor}}$$

U_R : Receiver Reading

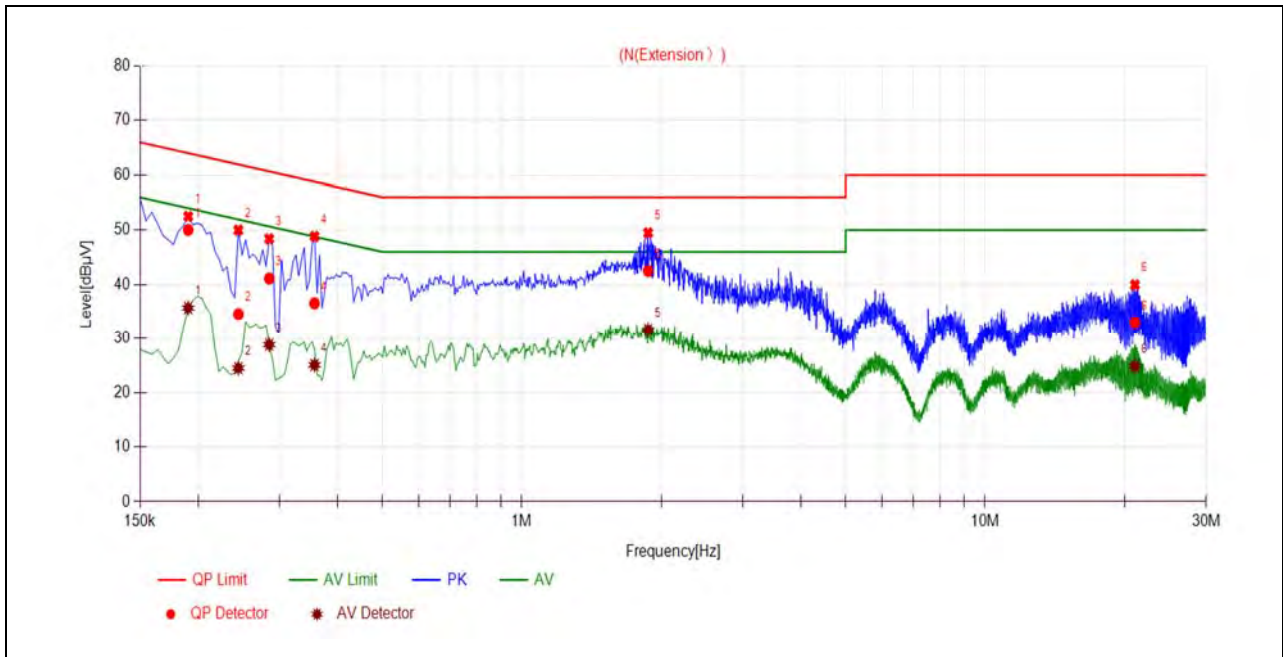
A_{Factor} : Voltage division factor of LISN

B. Test Plot:



(L Phase)

No.	Fre. (MHz)	Emission Level (dBµV)		Limit (dBµV)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.1995	50.66	37.72	63.63	53.63	Line	PASS
2	0.2085	49.10	35.53	63.26	53.26		PASS
3	0.2580	43.55	32.12	61.50	51.50		PASS
4	1.8105	39.72	29.31	56.00	46.00		PASS
5	1.9410	40.58	29.38	56.00	46.00		PASS
6	18.3692	35.72	27.78	60.00	50.00		PASS



(N Phase)

No.	Fre. (MHz)	Emission Level (dBμV)		Limit (dBμV)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.1905	50.05	35.70	64.01	54.01	Neutral	PASS
2	0.2445	34.57	24.49	61.94	51.94		PASS
3	0.2850	41.14	28.82	60.67	50.67		PASS
4	0.3570	36.57	25.07	58.80	48.80		PASS
5	1.8735	42.52	31.64	56.00	46.00		PASS
6	21.0591	33.02	24.85	60.00	50.00		PASS



A.11. Restricted Frequency Bands

The lowest and highest channels are tested to verify the Restricted Frequency Bands.

The measurement results are obtained as below:

$$E \text{ [dB}\mu\text{V/m]} = U_R + A_T + A_{\text{Factor}} \text{ [dB]}; A_T = L_{\text{Cable loss}} \text{ [dB]} - G_{\text{preamp}} \text{ [dB]}$$

A_T : Total correction Factor except Antenna

U_R : Receiver Reading

G_{preamp} : Preamplifier Gain

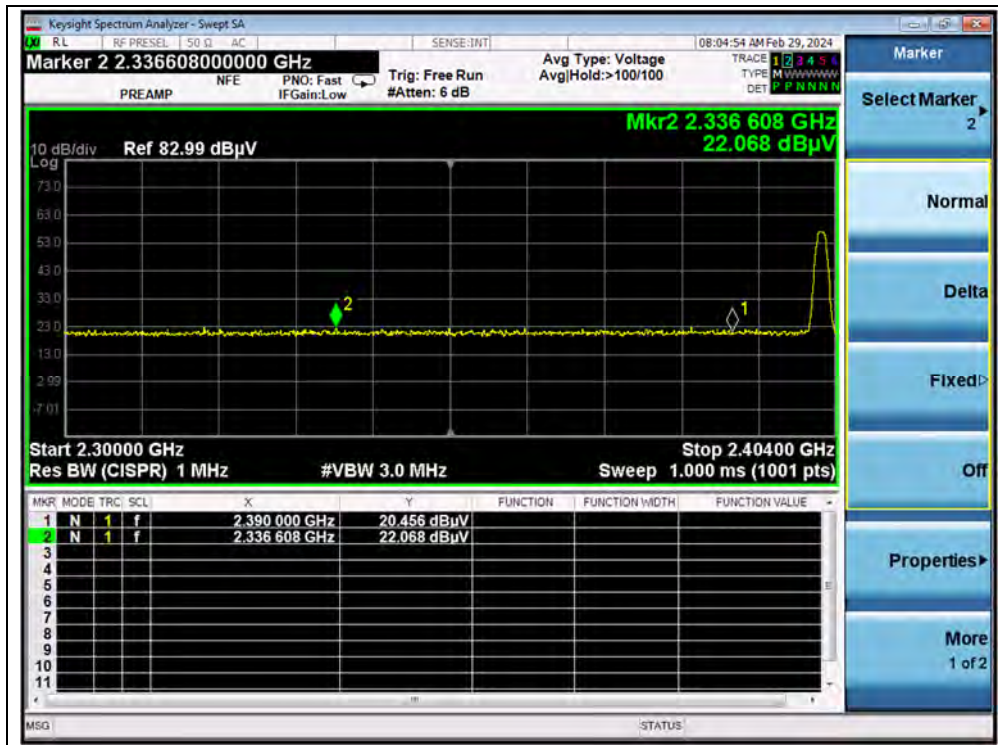
A_{Factor} : Antenna Factor at 3m

Note: Restricted Frequency Bands were performed when antenna was at vertical and horizontal polarity, and only the worse test condition (vertical) was recorded in this test report.

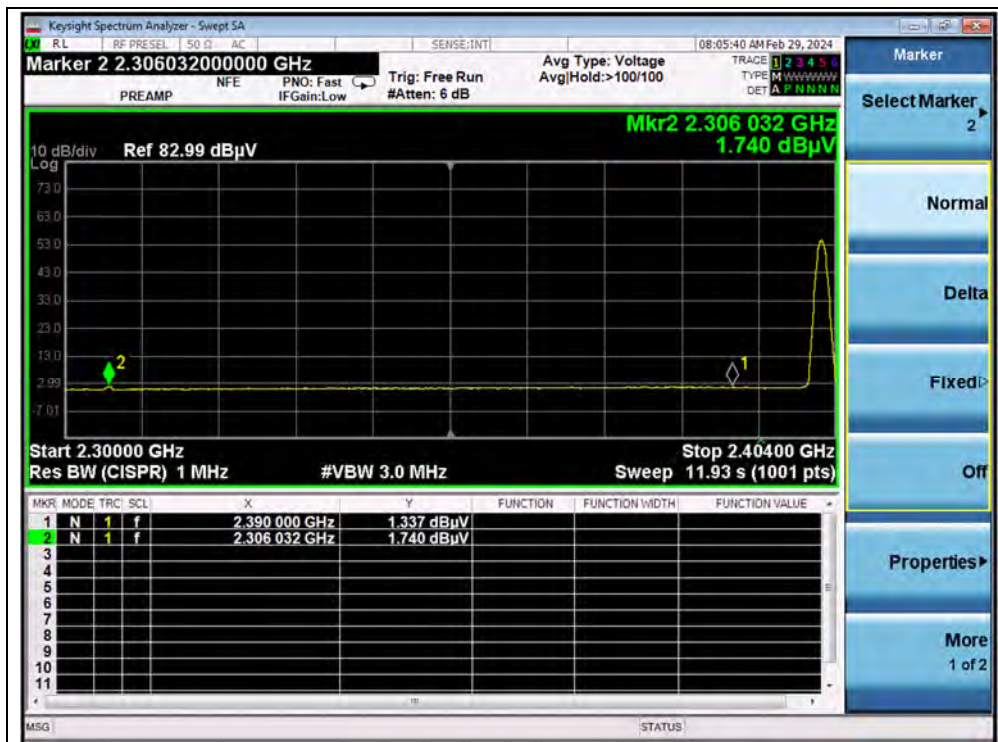
Left:

GFSK Mode

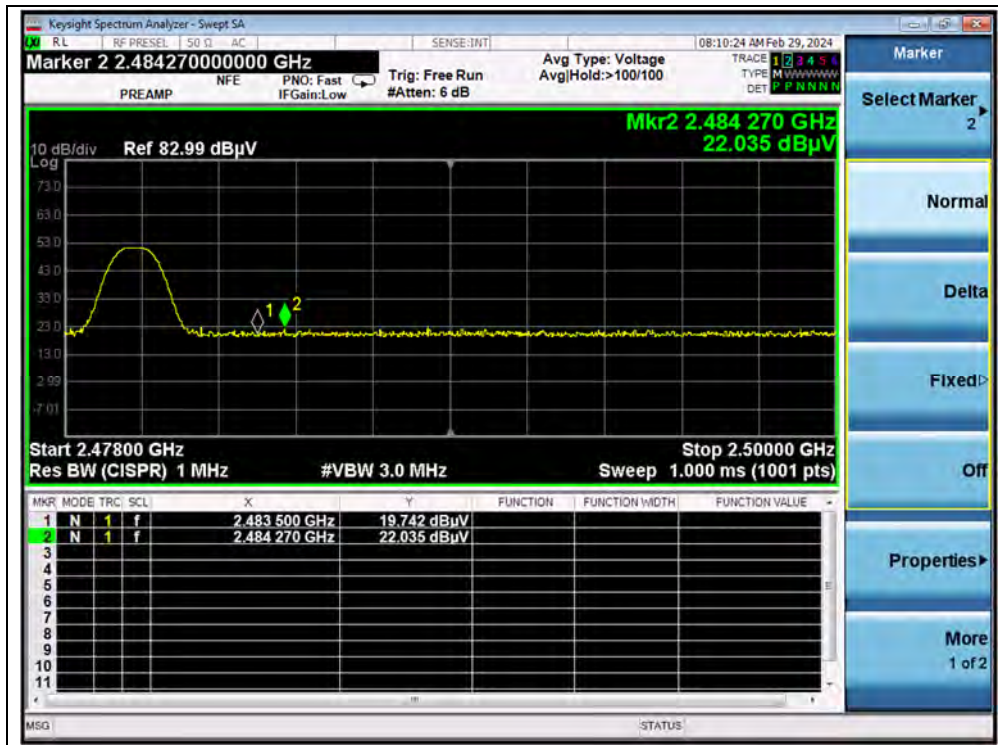
Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dB μ V)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dB μ V/m)	Limit (dB μ V/m)	Verdict
		PK/ AV						
0	2336.61	PK	22.07	6.74	27.20	56.01	74	PASS
0	2306.03	AV	1.74	6.74	27.20	35.68	54	PASS
78	2484.27	PK	22.04	6.74	27.20	55.98	74	PASS
78	2483.50	AV	0.33	6.74	27.20	34.27	54	PASS



(PEAK, Channel 0, GFSK)



(AVERAGE, Channel 0, GFSK)



(PEAK, Channel 78, GFSK)

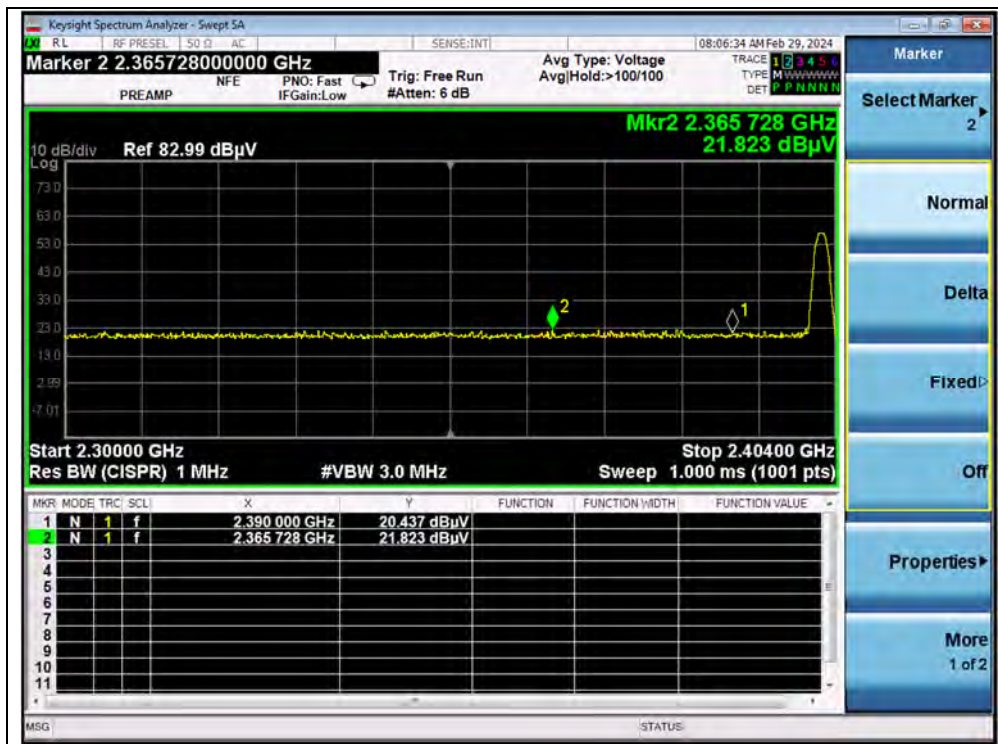


(AVERAGE, Channel 78, GFSK)

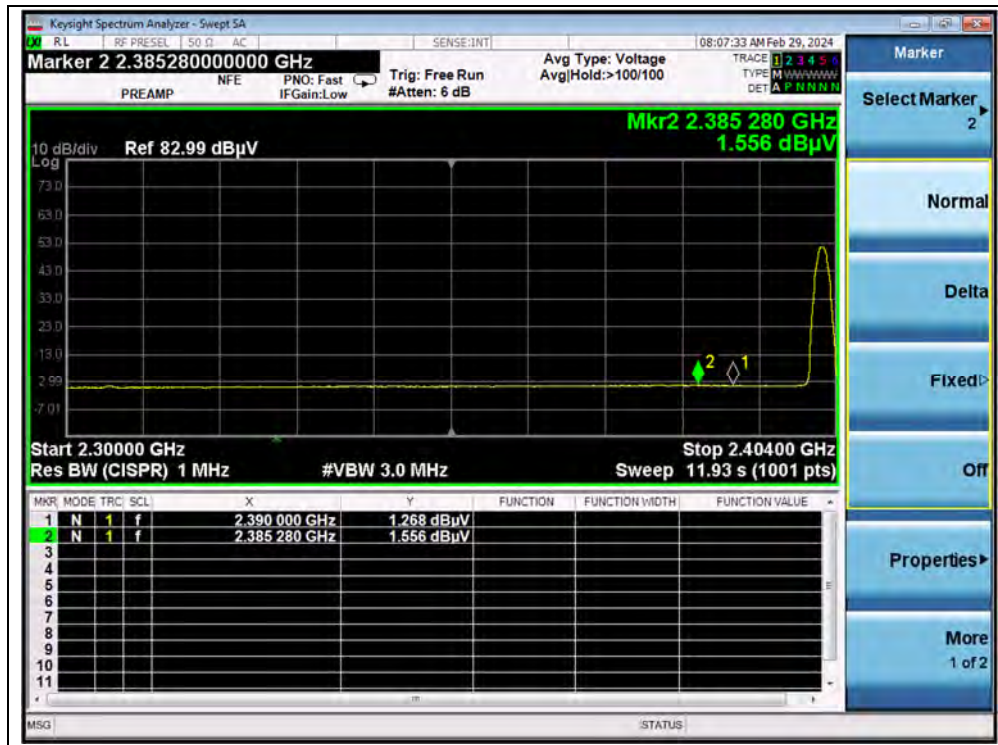


$\pi/4$ -DQPSK Mode

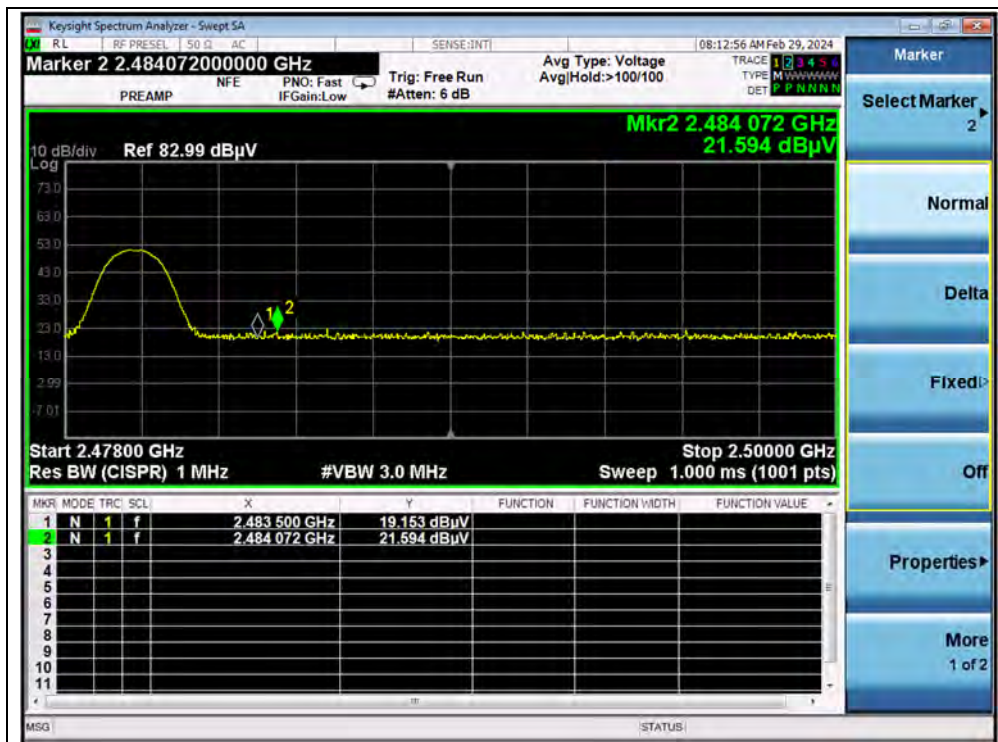
Channel	Frequency (MHz)	Detector	Receiver Reading	A _T (dB)	A _{Factor} (dB@3m)	Max. Emission	Limit (dBμV/m)	Verdict
		PK/ AV	U _R (dBμV)			E (dBμV/m)		
0	2365.73	PK	21.82	6.74	27.20	55.76	74	PASS
0	2385.28	AV	1.56	6.74	27.20	35.50	54	PASS
78	2484.07	PK	21.59	6.74	27.20	55.53	74	PASS
78	2483.50	AV	0.33	6.74	27.20	34.27	54	PASS



(PEAK, Channel 0, $\pi/4$ -DQPSK)



(AVERAGE, Channel 0, $\pi/4$ -DQPSK)



(PEAK, Channel 78, $\pi/4$ -DQPSK)



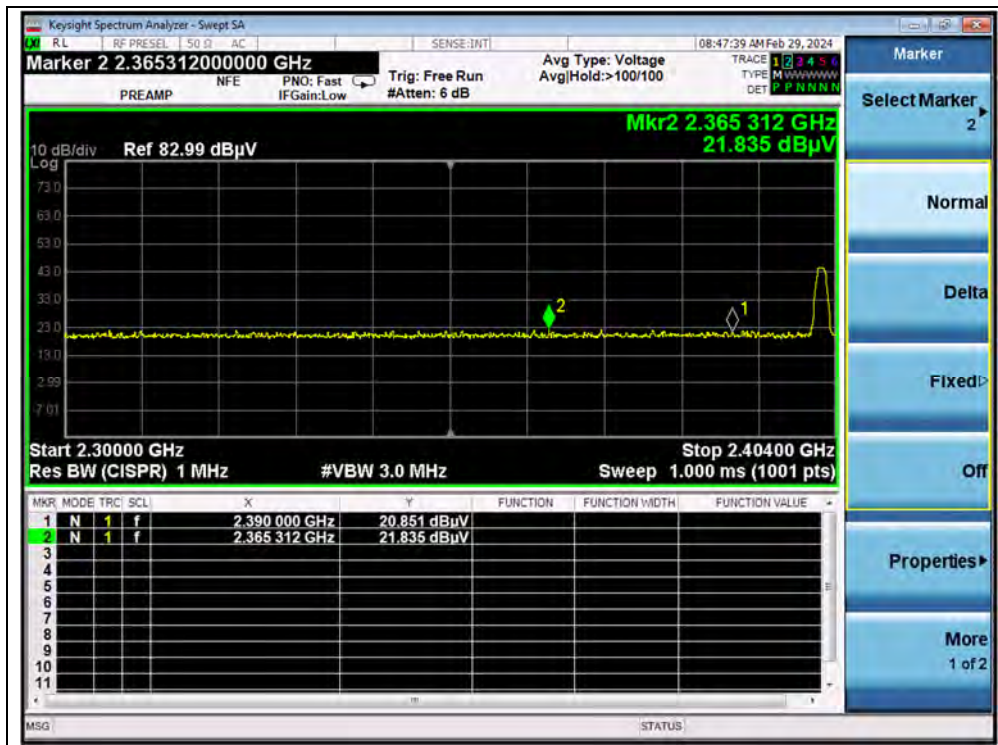
(AVERAGE, Channel 78, π/4-DQPSK)



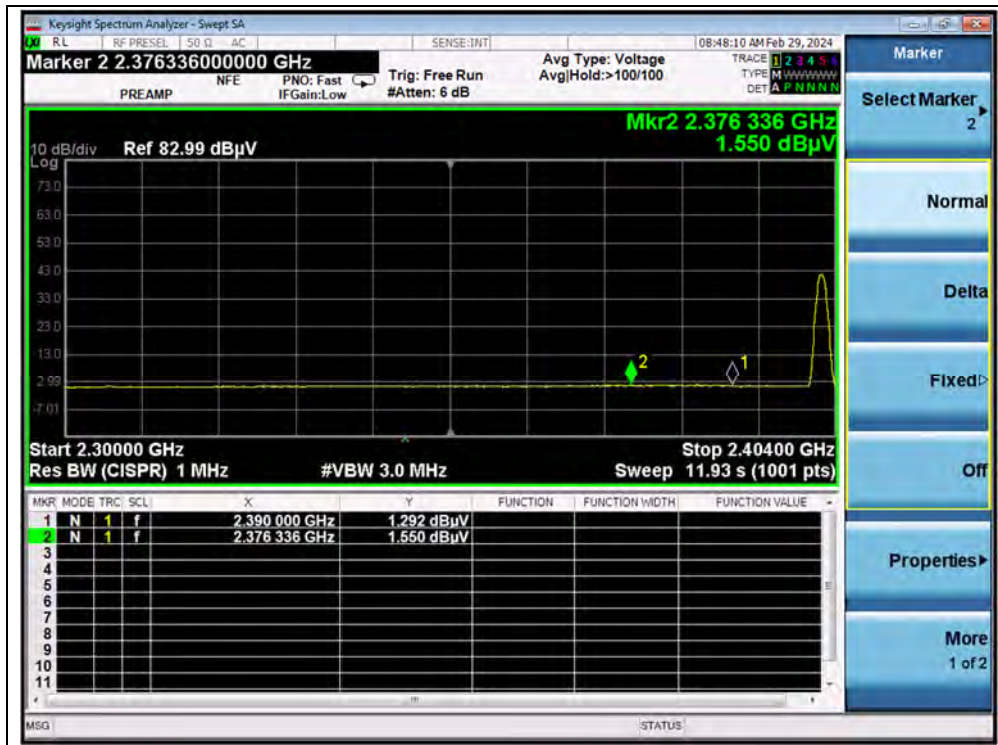
Right:

GFSK Mode

Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dB μ V)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dB μ V/m)	Limit (dB μ V/m)	Verdict
		PK/ AV						
0	2365.31	PK	21.84	6.74	27.20	55.78	74	PASS
0	2376.34	AV	1.55	6.74	27.20	35.49	54	PASS
78	2484.86	PK	21.86	6.74	27.20	55.80	74	PASS
78	2484.23	AV	0.54	6.74	27.20	34.48	54	PASS



(PEAK, Channel 0, GFSK)



(AVERAGE, Channel 0, GFSK)



(PEAK, Channel 78, GFSK)

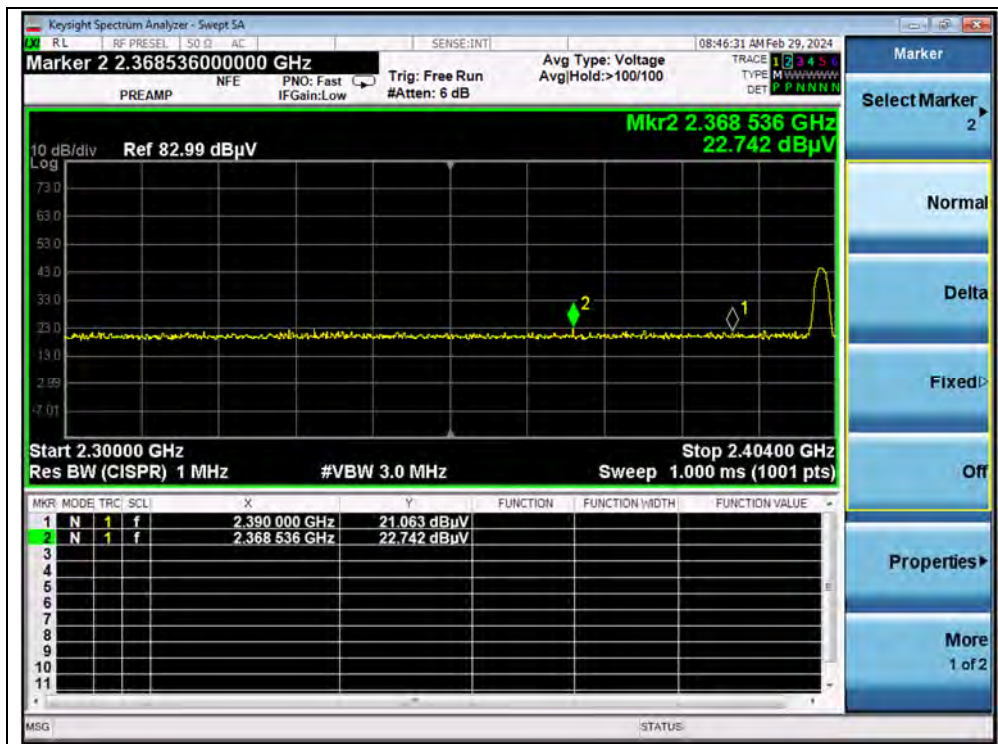


(AVERAGE, Channel 78, GFSK)

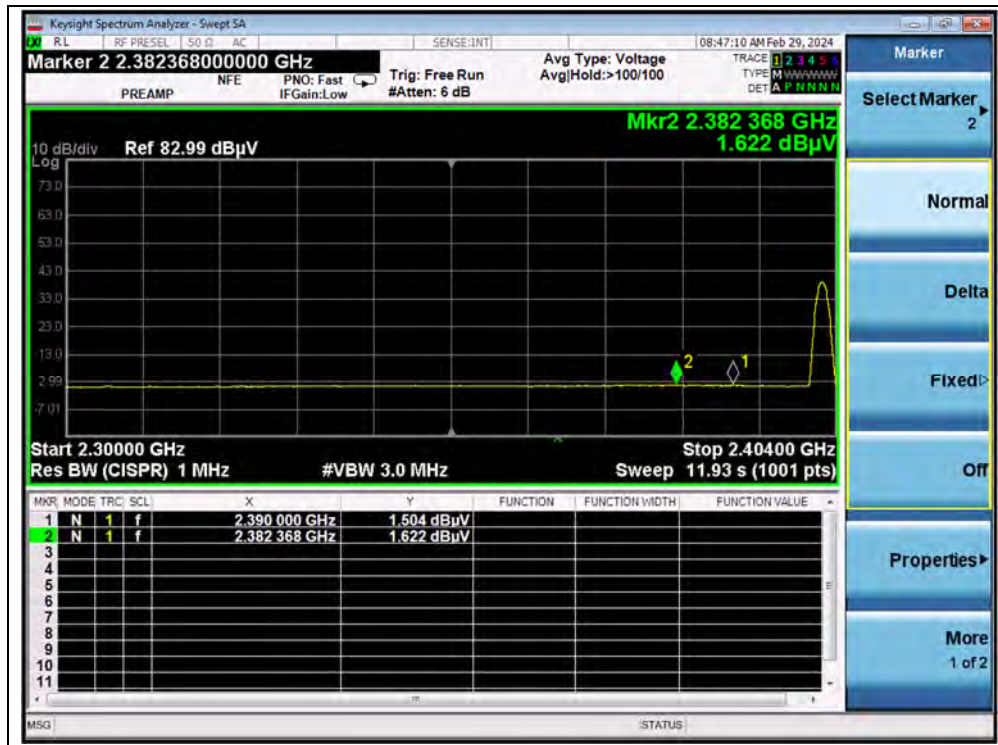


$\pi/4$ -DQPSK Mode

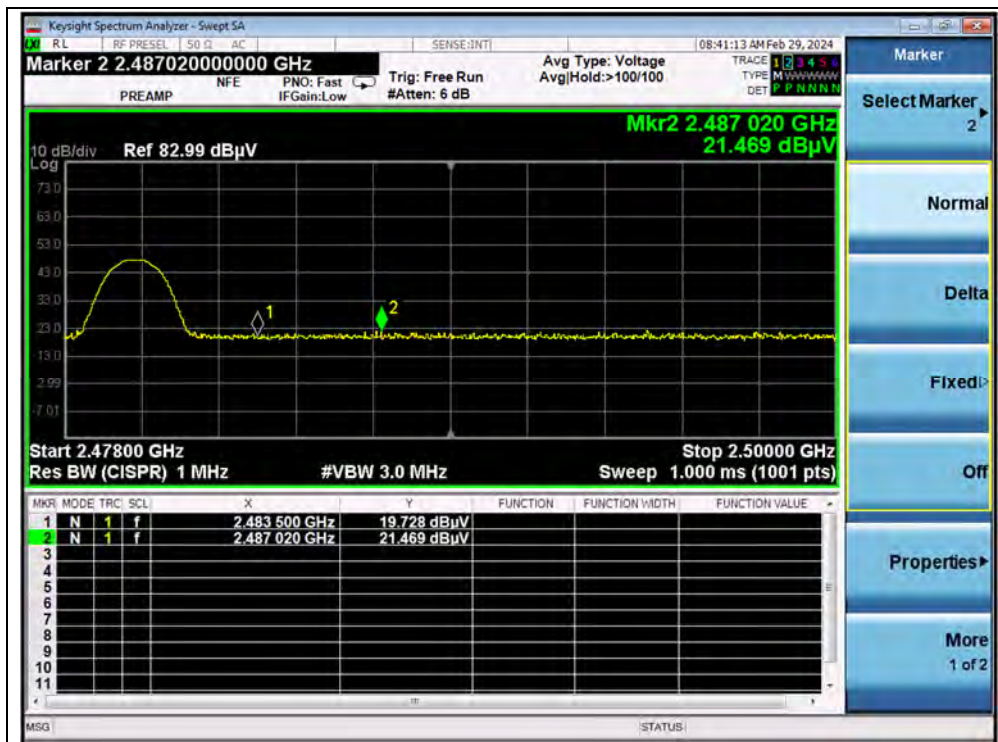
Channel	Frequency (MHz)	Detector	Receiver Reading	A _T (dB)	A _{Factor} (dB@3m)	Max. Emission E (dBμV/m)	Limit (dBμV/m)	Verdict
		PK/ AV	U _R (dBμV)					
0	2368.54	PK	22.74	6.74	27.20	56.68	74	PASS
0	2382.37	AV	1.62	6.74	27.20	35.56	54	PASS
78	2487.02	PK	21.47	6.74	27.20	55.41	74	PASS
78	2484.40	AV	0.54	6.74	27.20	34.48	54	PASS



(PEAK, Channel 0, $\pi/4$ -DQPSK)



(AVERAGE, Channel 0, $\pi/4$ -DQPSK)



(PEAK, Channel 78, $\pi/4$ -DQPSK)



(AVERAGE, Channel 78, π/4-DQPSK)



A.12. Radiated Emission

According to ANSI C63.10, because of peak detection will yield amplitudes equal to or greater than amplitudes measured with the quasi-peak (or average) detector, the measurement data from a spectrum analyzer peak detector will represent the worst-case results, if the peak measured value complies with the quasi-peak (or average) limit, it is unnecessary to perform an quasi-peak measurement (or average).

The measurement results are obtained as below:

$$E [dB\mu V/m] = U_R + A_T + A_{Factor} [dB]; A_T = L_{Cable\ loss} [dB] - G_{preamp} [dB]$$

A_T: Total correction Factor except Antenna

U_R: Receiver Reading

G_{preamp}: Preamplifier Gain

A_{Factor}: Antenna Factor at 3m

During the test, the total correction Factor A_T and A_{Factor} were built in test software.

Note1: All radiated emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

Note2: For the frequency, which started from 9kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit was not recorded.

Note3: For the frequency, which started from 18GHz to 10th harmonic of the highest frequency, was pre-scanned and the result which was 20dB lower than the limit was not recorded.

Left:

Field strength of fundamental:

Frequency (MHz)	Reading_Peak (dBμV/m)	Antenna Factor (dB)	Path Loss (dB)	Final_Peak (dBμV/m)	Antenna Polarity
2479.90	62.96	27.20	6.74	96.90	Horizontal
2480.06	55.82	27.20	6.74	89.76	Vertical

The field strength (the lowest) of fundamenta is more than 20dB higher than the unwanted emissions, in accordance with FCC part 15.215(b).

Right:

Field strength of fundamental:

Frequency (MHz)	Reading_Peak (dBμV/m)	Antenna Factor (dB)	Path Loss (dB)	Final_Peak (dBμV/m)	Antenna Polarity
2480.14	45.42	27.20	6.74	79.36	Horizontal
2479.80	42.39	27.20	6.74	76.33	Vertical

The field strength (the lowest) of fundamenta is more than 20dB higher than the unwanted emissions, in accordance with FCC part 15.215(b).



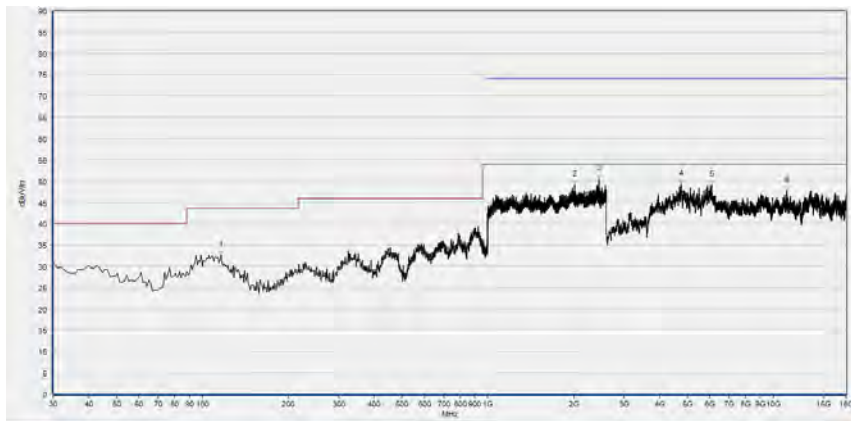
Left, GFSK Mode

Plots for Channel 0



Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
108.570	33.17	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1972.800	48.62	N/A	35.17	74.00	N/A	54.00	Horizontal	PASS
2594.133	49.56	N/A	36.84	74.00	N/A	54.00	Horizontal	PASS
5131.760	49.05	N/A	36.76	74.00	N/A	54.00	Horizontal	PASS
5898.680	49.69	N/A	37.19	74.00	N/A	54.00	Horizontal	PASS
14205.440	48.21	N/A	35.92	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
116.330	32.44	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2010.667	49.09	N/A	35.39	74.00	N/A	54.00	Vertical	PASS
2449.600	50.49	N/A	36.44	74.00	N/A	54.00	Vertical	PASS
4768.320	49.32	N/A	37.12	74.00	N/A	54.00	Vertical	PASS
6074.240	49.07	N/A	36.87	74.00	N/A	54.00	Vertical	PASS
11140.840	47.85	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 39



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
113.420	32.75	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1660.267	48.01	N/A	35.28	74.00	N/A	54.00	Horizontal	PASS
2511.467	49.08	N/A	36.42	74.00	N/A	54.00	Horizontal	PASS
4882.280	49.61	N/A	44.23	74.00	N/A	54.00	Horizontal	PASS
5904.840	48.62	N/A	36.84	74.00	N/A	54.00	Horizontal	PASS
13592.520	47.67	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
104.690	32.78	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1998.400	49.54	N/A	36.27	74.00	N/A	54.00	Horizontal	PASS
2451.200	48.88	N/A	36.18	74.00	N/A	54.00	Horizontal	PASS
4882.280	48.88	N/A	43.67	74.00	N/A	54.00	Horizontal	PASS
5886.360	48.40	N/A	36.20	74.00	N/A	54.00	Horizontal	PASS
14790.640	47.63	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 78



Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
112.450	33.22	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1965.867	48.34	N/A	35.09	74.00	N/A	54.00	Horizontal	PASS
2412.800	50.06	N/A	37.35	74.00	N/A	54.00	Horizontal	PASS
4749.840	48.77	N/A	36.89	74.00	N/A	54.00	Horizontal	PASS
5898.680	48.69	N/A	36.57	74.00	N/A	54.00	Horizontal	PASS
9080.320	47.79	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
108.570	32.32	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1984.000	48.21	N/A	35.04	74.00	N/A	54.00	Vertical	PASS
2452.800	48.24	N/A	35.79	74.00	N/A	54.00	Vertical	PASS
4786.800	49.33	N/A	36.85	74.00	N/A	54.00	Vertical	PASS
6135.840	48.71	N/A	36.24	74.00	N/A	54.00	Vertical	PASS
9496.120	47.75	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)



$\pi/4$ -DQPSK Mode

Plots for Channel 0



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
103.720	32.45	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1954.667	48.36	N/A	35.08	74.00	N/A	54.00	Horizontal	PASS
2405.333	49.03	N/A	36.47	74.00	N/A	54.00	Horizontal	PASS
4666.680	48.86	N/A	36.53	74.00	N/A	54.00	Horizontal	PASS
5914.080	48.43	N/A	36.31	74.00	N/A	54.00	Horizontal	PASS
14766.000	47.87	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
110.510	32.69	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1997.333	48.51	N/A	35.28	74.00	N/A	54.00	Vertical	PASS
2409.067	49.39	N/A	36.79	74.00	N/A	54.00	Vertical	PASS
3982.920	49.62	N/A	37.21	74.00	N/A	54.00	Vertical	PASS
5904.840	49.68	N/A	37.28	74.00	N/A	54.00	Vertical	PASS
10891.360	47.09	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 39



Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
110.510	32.63	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1953.600	49.61	N/A	36.77	74.00	N/A	54.00	Horizontal	PASS
2416.000	49.48	N/A	36.51	74.00	N/A	54.00	Horizontal	PASS
4882.280	48.72	N/A	43.28	74.00	N/A	54.00	Horizontal	PASS
5889.440	48.90	N/A	36.36	74.00	N/A	54.00	Horizontal	PASS
14762.920	47.72	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

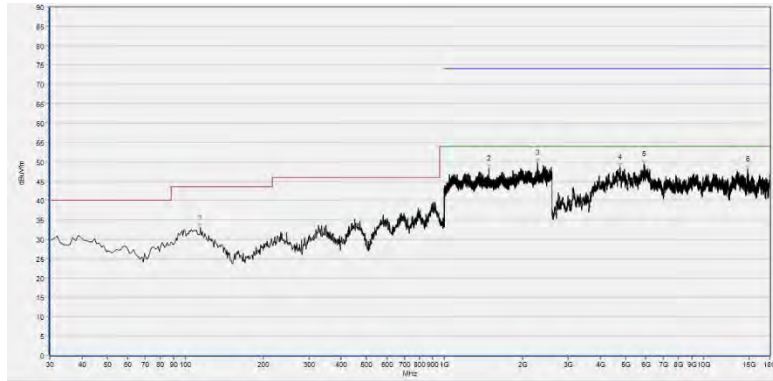
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	Pk (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
110.510	32.32	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1972.800	49.34	N/A	36.71	74.00	N/A	54.00	Vertical	PASS
2412.800	48.96	N/A	35.48	74.00	N/A	54.00	Vertical	PASS
5258.040	48.90	N/A	36.55	74.00	N/A	54.00	Vertical	PASS
6000.320	49.00	N/A	36.79	74.00	N/A	54.00	Vertical	PASS
10937.560	47.39	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

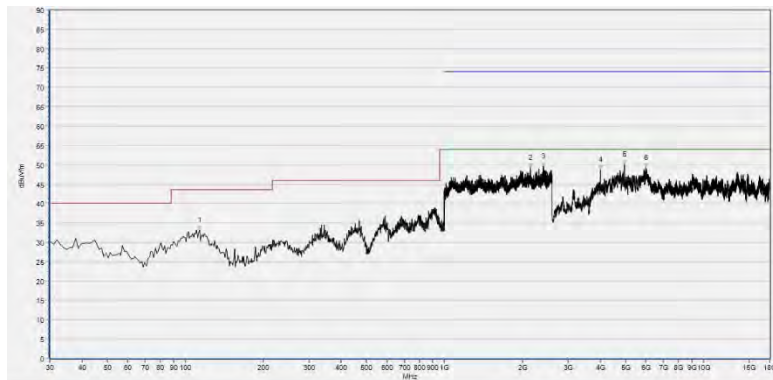
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 78



Fre. (MHz)	Pk (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
114.390	33.07	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1486.933	48.33	N/A	35.02	74.00	N/A	54.00	Horizontal	PASS
2288.000	49.74	N/A	36.75	74.00	N/A	54.00	Horizontal	PASS
4762.160	48.56	N/A	36.41	74.00	N/A	54.00	Horizontal	PASS
5889.440	49.42	N/A	37.10	74.00	N/A	54.00	Horizontal	PASS
14756.760	48.10	N/A	35.84	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)



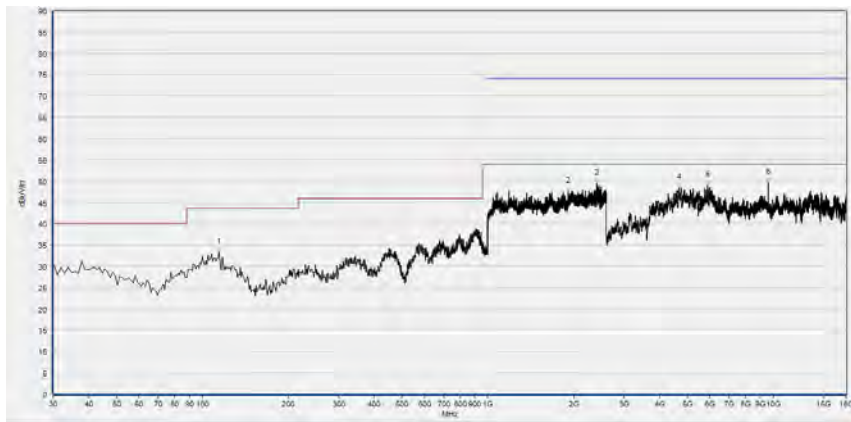
Fre. (MHz)	Pk (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
113.420	33.23	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2145.067	49.28	N/A	36.27	74.00	N/A	54.00	Vertical	PASS
2410.133	49.56	N/A	36.32	74.00	N/A	54.00	Vertical	PASS
3992.160	48.75	N/A	36.46	74.00	N/A	54.00	Vertical	PASS
4959.280	50.05	N/A	45.43	74.00	N/A	54.00	Vertical	PASS
5991.080	49.29	N/A	36.89	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)



Right, GFSK Mode

Plots for Channel 0



Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
114.390	33.32	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1917.867	47.54	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2413.333	49.43	N/A	36.81	74.00	N/A	54.00	Horizontal	PASS
4666.680	48.42	N/A	36.19	74.00	N/A	54.00	Horizontal	PASS
5886.360	48.96	N/A	36.74	74.00	N/A	54.00	Horizontal	PASS
9607.000	49.63	N/A	47.58	74.00	N/A	54.00	Horizontal	PASS

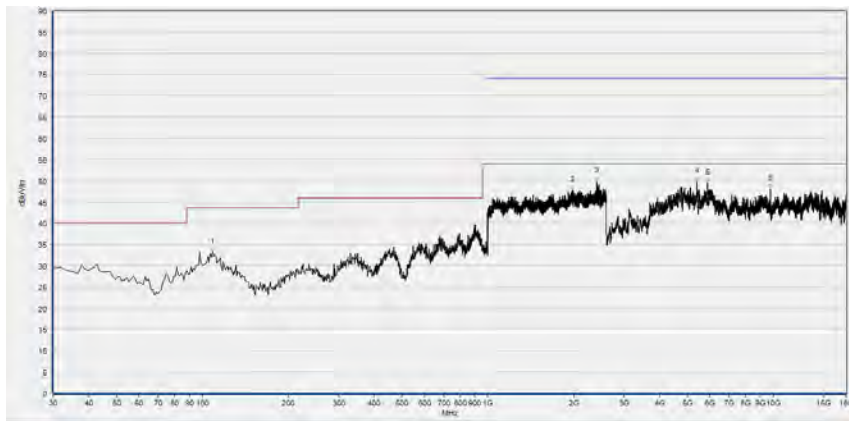
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
112.450	32.80	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1990.400	48.66	N/A	35.48	74.00	N/A	54.00	Vertical	PASS
2406.933	48.56	N/A	35.32	74.00	N/A	54.00	Vertical	PASS
3989.080	48.72	N/A	36.15	74.00	N/A	54.00	Vertical	PASS
4752.920	49.49	N/A	37.07	74.00	N/A	54.00	Vertical	PASS
5489.040	48.86	N/A	36.55	74.00	N/A	54.00	Vertical	PASS

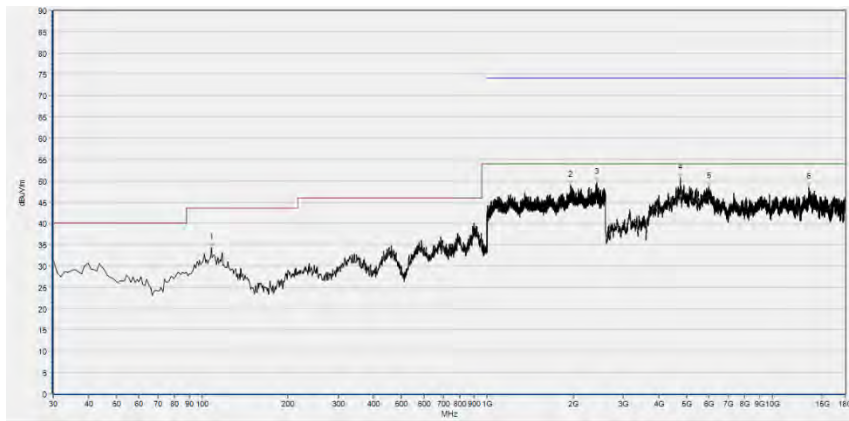
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 39



Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
108.570	33.11	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1983.467	47.82	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2411.200	49.70	N/A	37.12	74.00	N/A	54.00	Horizontal	PASS
5396.640	49.81	N/A	37.66	74.00	N/A	54.00	Horizontal	PASS
5892.520	49.51	N/A	37.25	74.00	N/A	54.00	Horizontal	PASS
9764.080	48.12	N/A	36.03	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
107.600	34.20	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1962.667	48.97	N/A	35.48	74.00	N/A	54.00	Horizontal	PASS
2417.600	49.68	N/A	36.92	74.00	N/A	54.00	Horizontal	PASS
4746.760	50.56	N/A	38.10	74.00	N/A	54.00	Horizontal	PASS
5978.760	48.55	N/A	36.29	74.00	N/A	54.00	Horizontal	PASS
13453.920	48.45	N/A	36.12	74.00	N/A	54.00	Horizontal	PASS

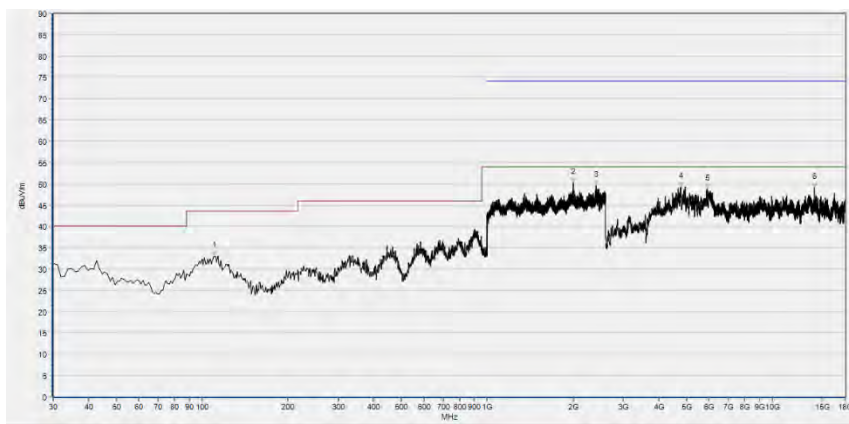
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 78



Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
111.480	33.61	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2098.133	48.59	N/A	35.05	74.00	N/A	54.00	Horizontal	PASS
2413.867	49.76	N/A	36.92	74.00	N/A	54.00	Horizontal	PASS
4959.280	50.55	N/A	45.38	74.00	N/A	54.00	Horizontal	PASS
5907.920	49.98	N/A	37.47	74.00	N/A	54.00	Horizontal	PASS
13558.640	48.07	N/A	35.80	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
110.510	33.10	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1997.867	50.29	N/A	36.52	74.00	N/A	54.00	Vertical	PASS
2412.800	49.60	N/A	36.81	74.00	N/A	54.00	Vertical	PASS
4771.400	49.32	N/A	36.87	74.00	N/A	54.00	Vertical	PASS
5901.760	48.69	N/A	36.30	74.00	N/A	54.00	Vertical	PASS
14020.640	49.12	N/A	36.75	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)



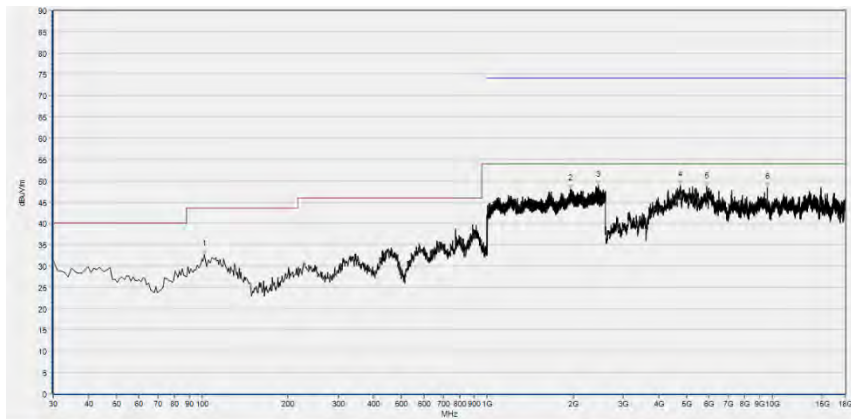
$\pi/4$ -DQPSK Mode

Plots for Channel 0



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
108.570	32.58	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1859.200	47.62	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2414.400	48.85	N/A	35.67	74.00	N/A	54.00	Horizontal	PASS
4749.840	49.37	N/A	36.51	74.00	N/A	54.00	Horizontal	PASS
5889.440	48.62	N/A	36.28	74.00	N/A	54.00	Horizontal	PASS
9607.000	49.94	N/A	47.81	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
101.780	32.69	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1960.000	48.06	N/A	34.59	74.00	N/A	54.00	Vertical	PASS
2449.600	48.92	N/A	36.21	74.00	N/A	54.00	Vertical	PASS
4759.080	48.90	N/A	36.65	74.00	N/A	54.00	Vertical	PASS
5886.360	48.52	N/A	36.18	74.00	N/A	54.00	Vertical	PASS
9607.000	48.51	N/A	46.56	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 39



Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
111.480	33.32	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1970.133	48.82	N/A	35.60	74.00	N/A	54.00	Horizontal	PASS
2410.133	49.10	N/A	36.24	74.00	N/A	54.00	Horizontal	PASS
4752.920	48.69	N/A	36.31	74.00	N/A	54.00	Horizontal	PASS
5991.080	49.27	N/A	36.72	74.00	N/A	54.00	Horizontal	PASS
9764.080	48.55	N/A	36.28	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	Pk (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
106.630	34.53	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1963.200	49.59	N/A	36.19	74.00	N/A	54.00	Vertical	PASS
2496.000	49.24	N/A	36.51	74.00	N/A	54.00	Vertical	PASS
4780.640	49.45	N/A	37.17	74.00	N/A	54.00	Vertical	PASS
5874.040	48.73	N/A	36.28	74.00	N/A	54.00	Vertical	PASS
9764.080	48.01	N/A	35.80	74.00	N/A	54.00	Vertical	PASS

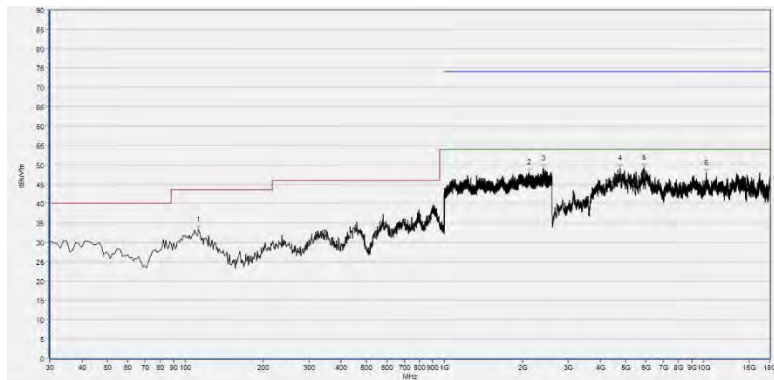
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 78



Fre. (MHz)	Pk (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
109.540	33.29	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1984.533	48.39	N/A	35.06	74.00	N/A	54.00	Horizontal	PASS
2446.933	49.54	N/A	36.82	74.00	N/A	54.00	Horizontal	PASS
4959.280	50.11	N/A	45.16	74.00	N/A	54.00	Horizontal	PASS
5892.520	49.47	N/A	37.05	74.00	N/A	54.00	Horizontal	PASS
9921.160	48.76	N/A	36.87	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	Pk (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
112.450	33.42	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2117.333	48.18	N/A	35.03	74.00	N/A	54.00	Vertical	PASS
2414.400	49.11	N/A	36.71	74.00	N/A	54.00	Vertical	PASS
4746.760	49.05	N/A	36.78	74.00	N/A	54.00	Vertical	PASS
5883.280	49.25	N/A	37.05	74.00	N/A	54.00	Vertical	PASS
10219.920	47.98	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

————— END OF REPORT —————