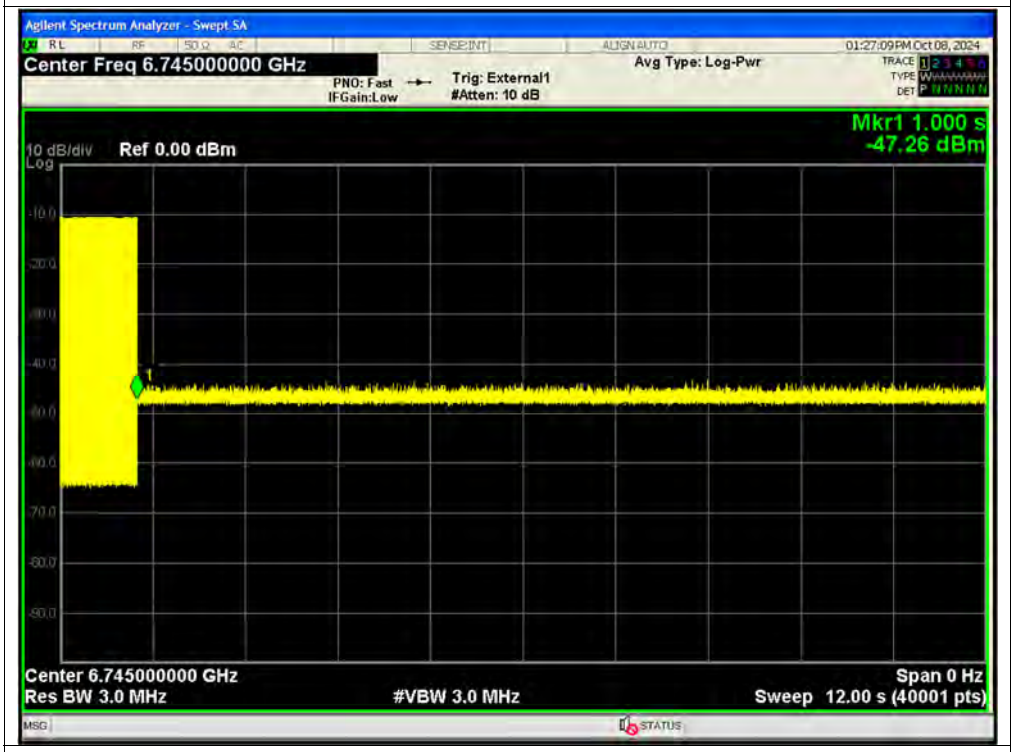
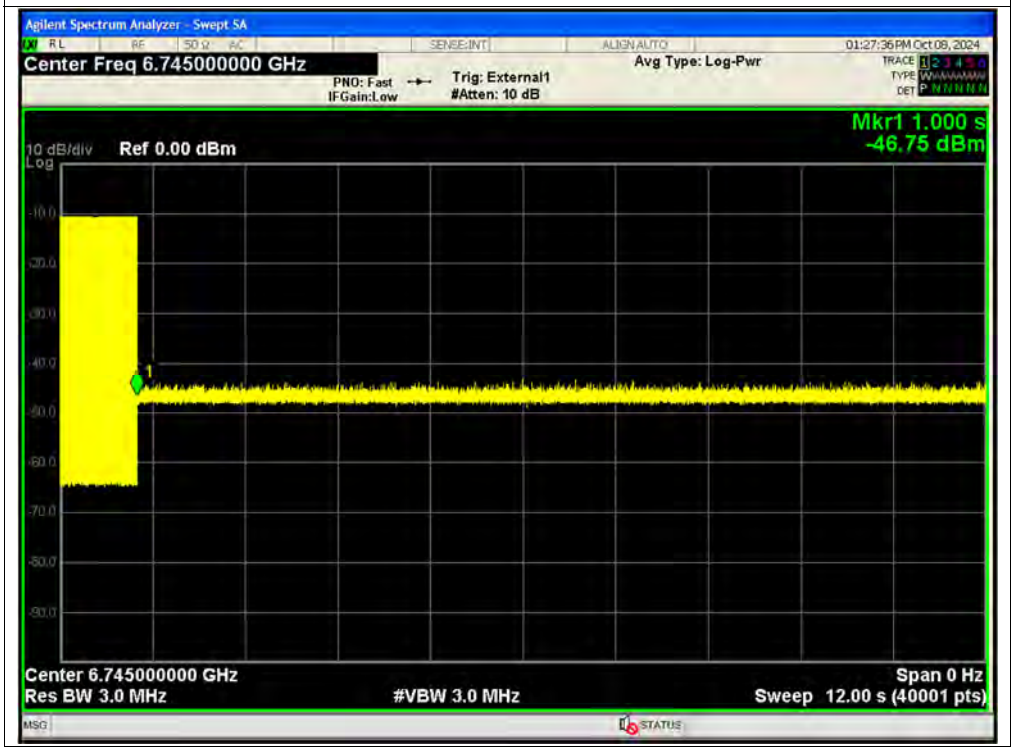
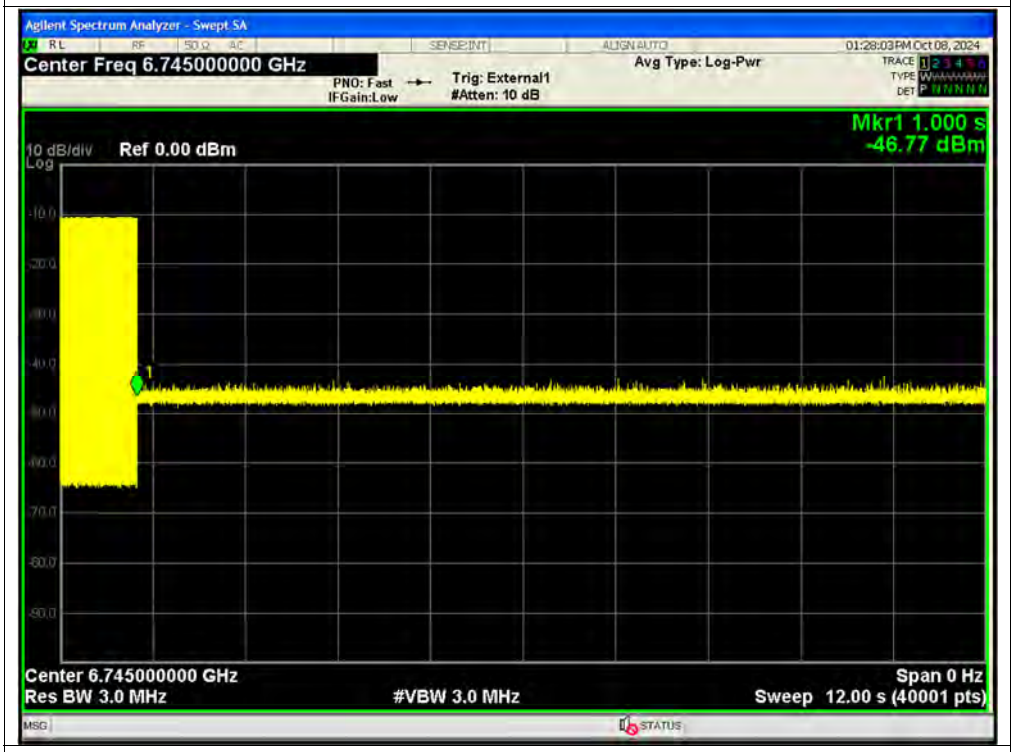
Contention Based Protocol NVNT be320 6745MHz Interfere 6745 MHz_6



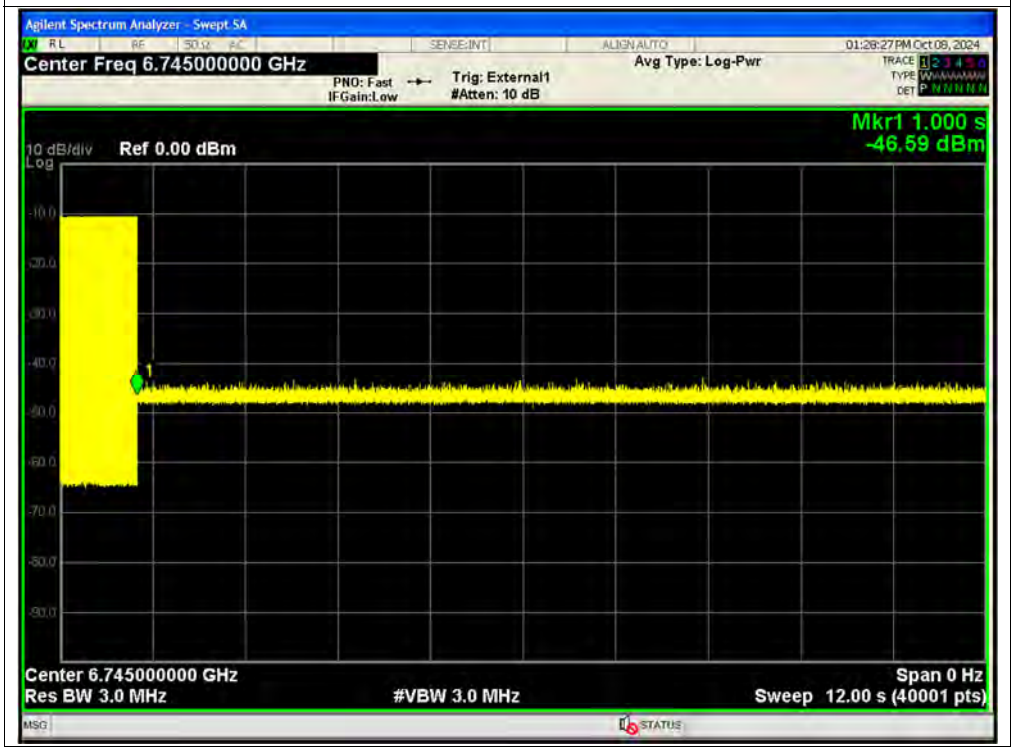
Contention Based Protocol NVNT be320 6745MHz Interfere 6745 MHz_7



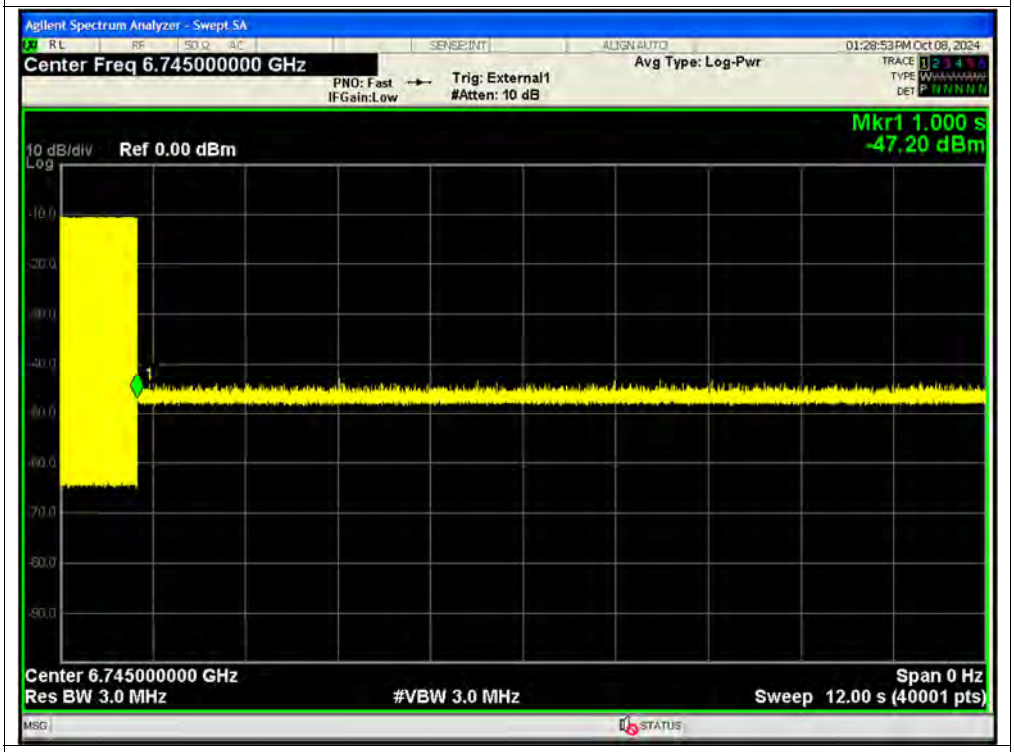
Contention Based Protocol NVNT be320 6745MHz Interfere 6745 MHz_8



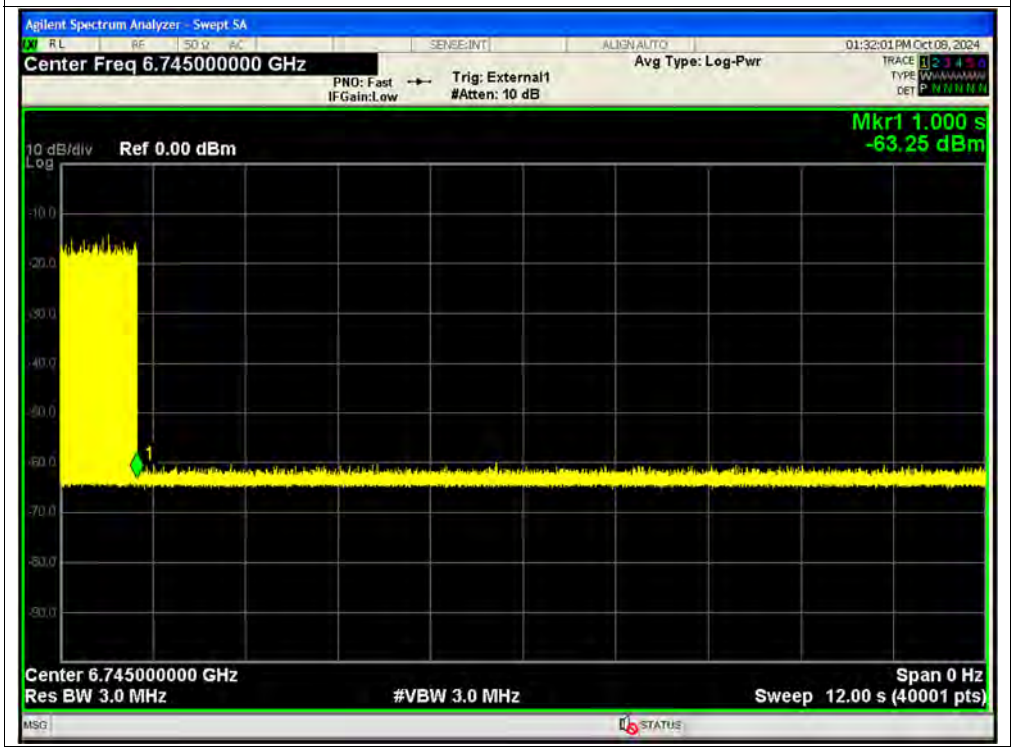
Contention Based Protocol NVNT be320 6745MHz Interfere 6745 MHz_9



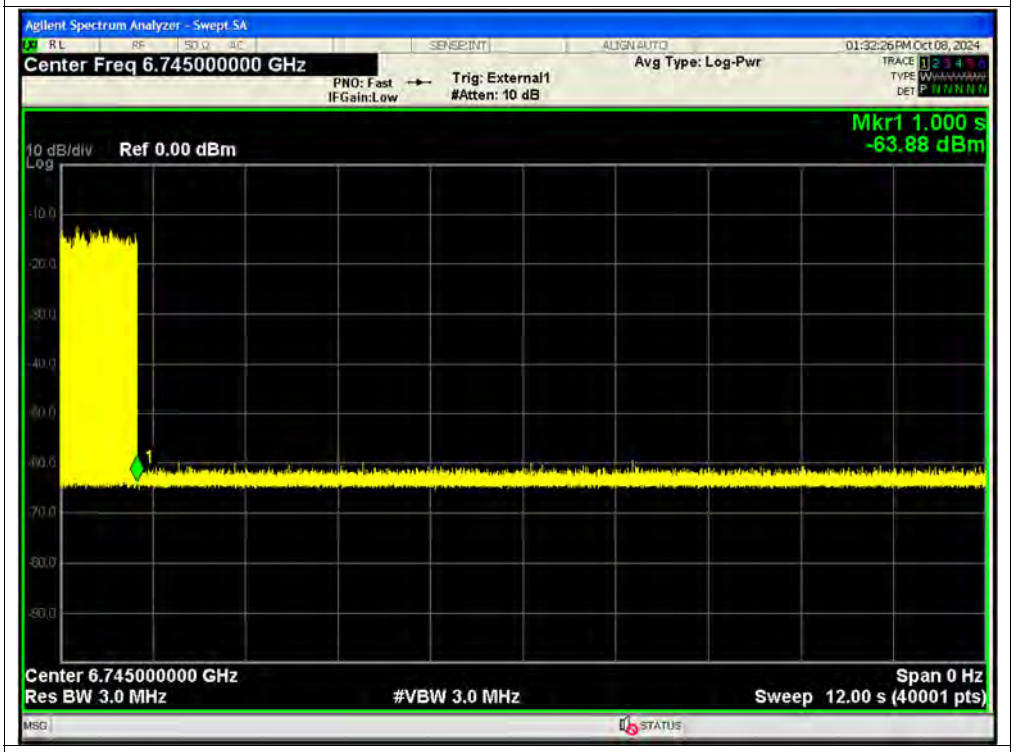
Contention Based Protocol NVNT be320 6745MHz Interfere 6745 MHz_10



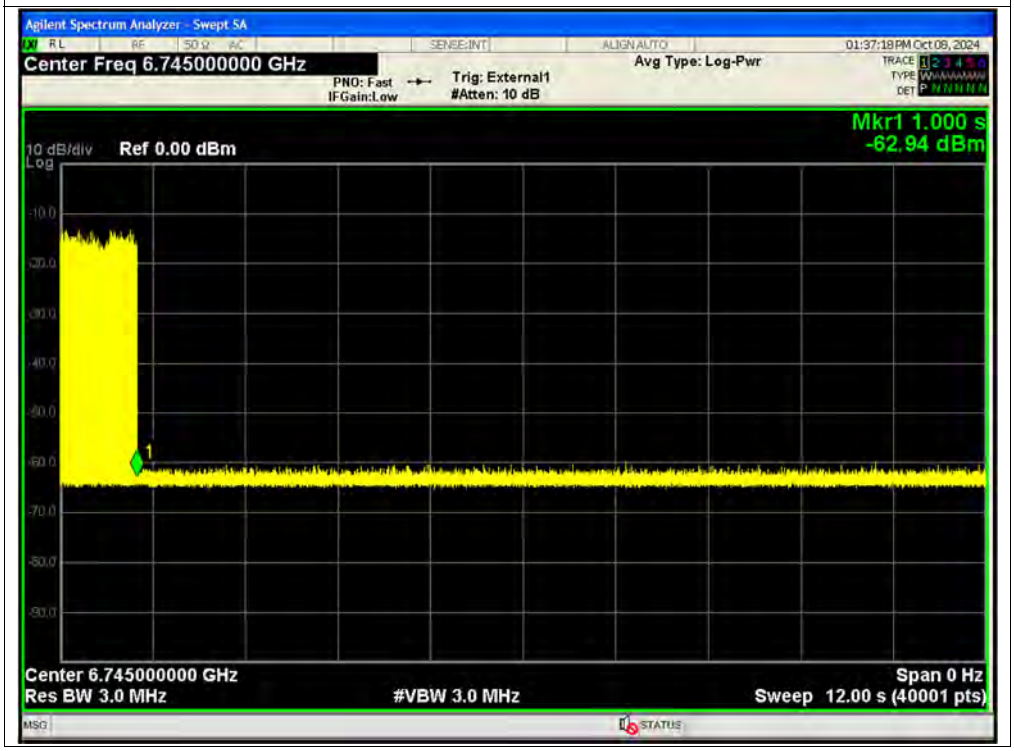
Contention Based Protocol NVNT be320 6745MHz Interfere 6900 MHz_1



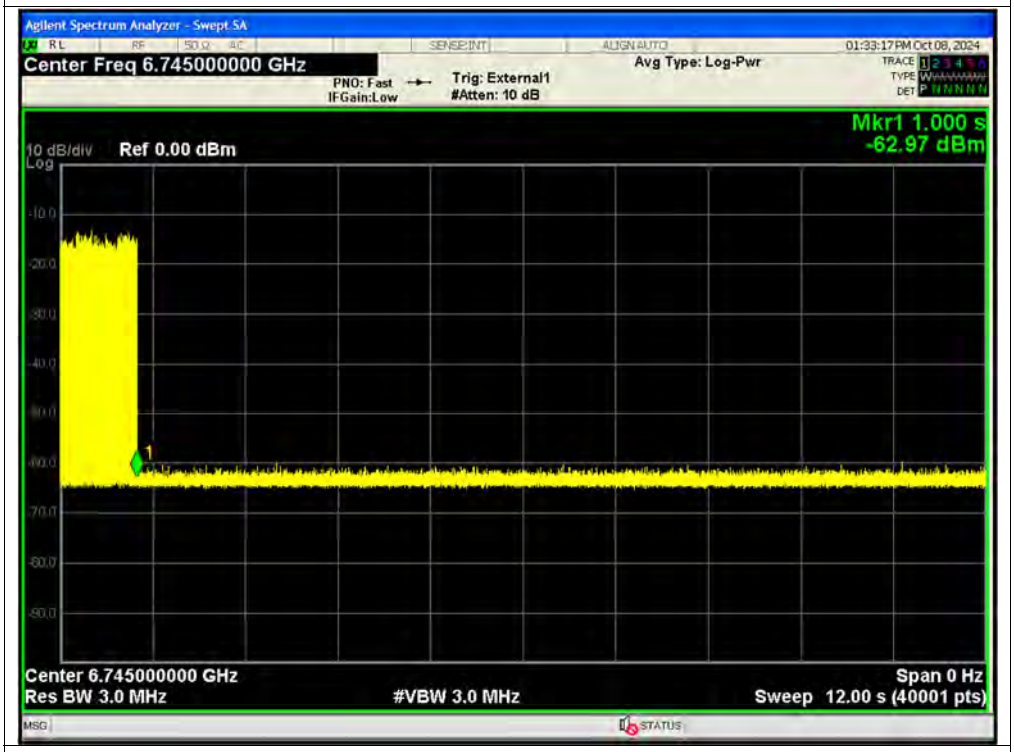
Contention Based Protocol NVNT be320 6745MHz Interfere 6900 MHz_2



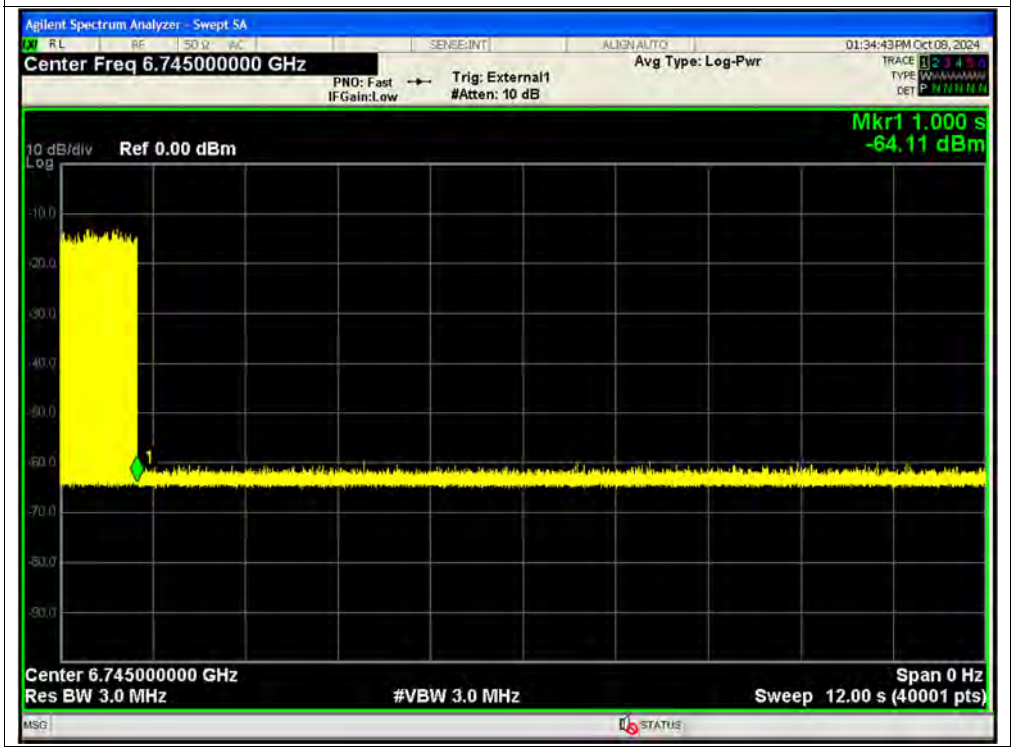
Contention Based Protocol NVNT be320 6745MHz Interfere 6900 MHz_3



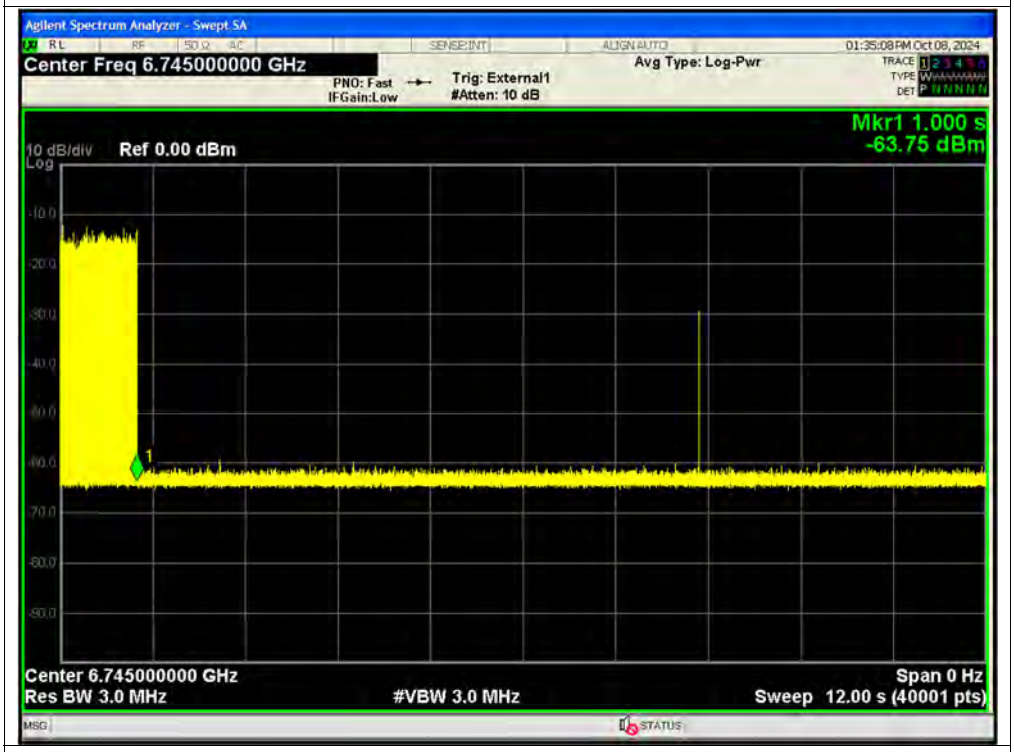
Contention Based Protocol NVNT be320 6745MHz Interfere 6900 MHz_4



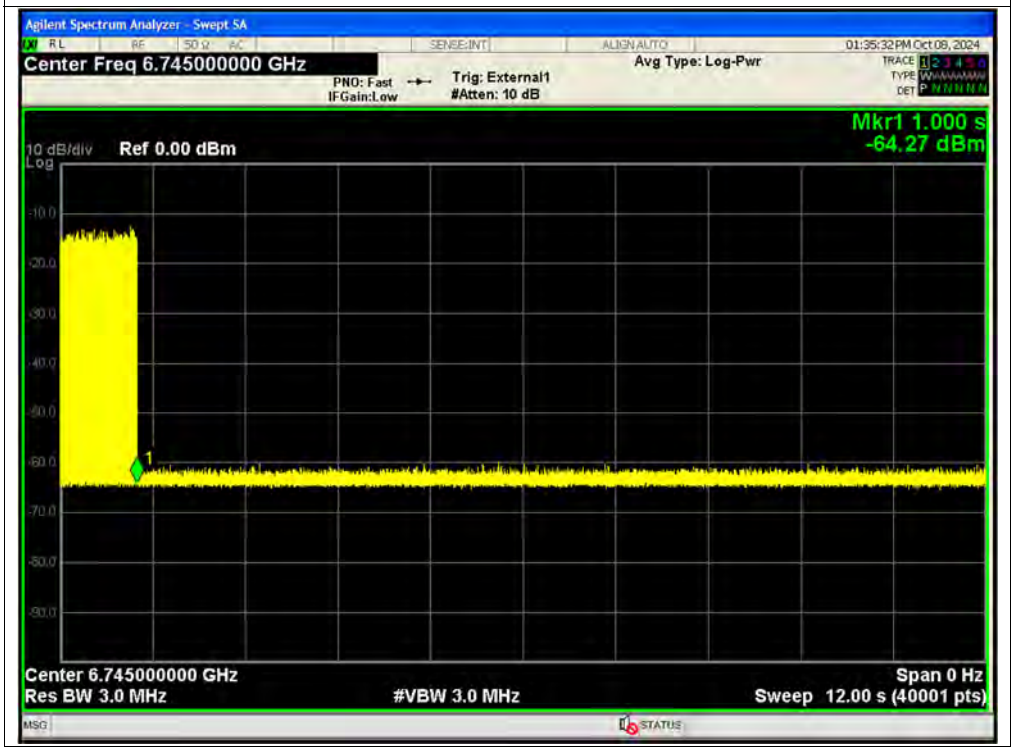
Contention Based Protocol NVNT be320 6745MHz Interfere 6900 MHz_5



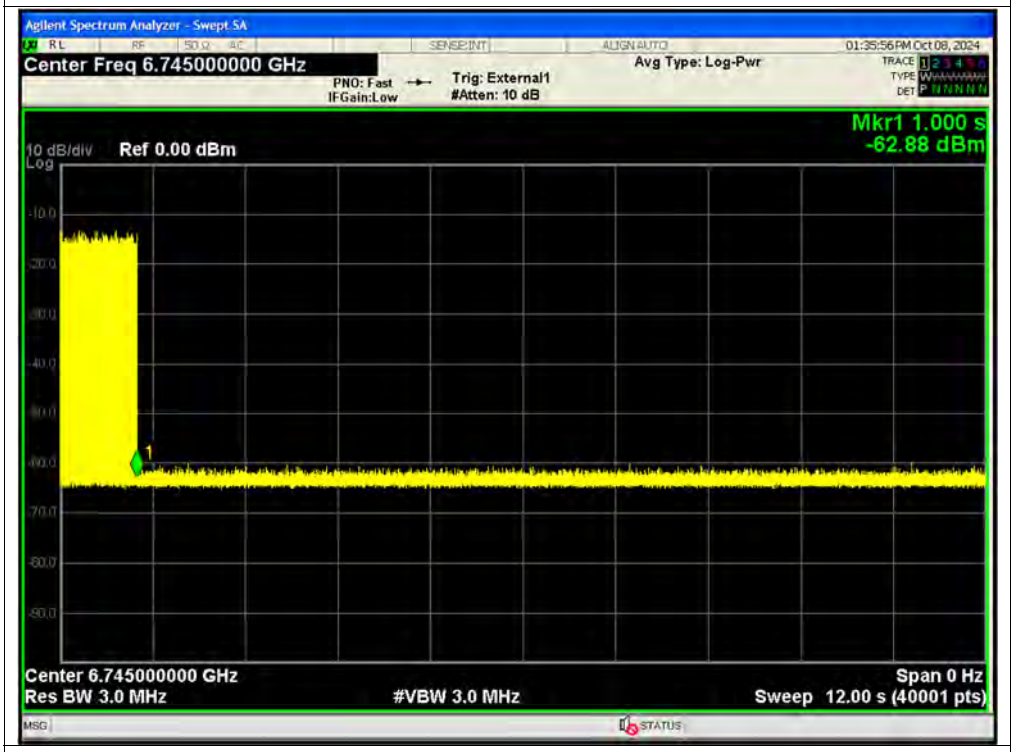
Contention Based Protocol NVNT be320 6745MHz Interfere 6900 MHz_6



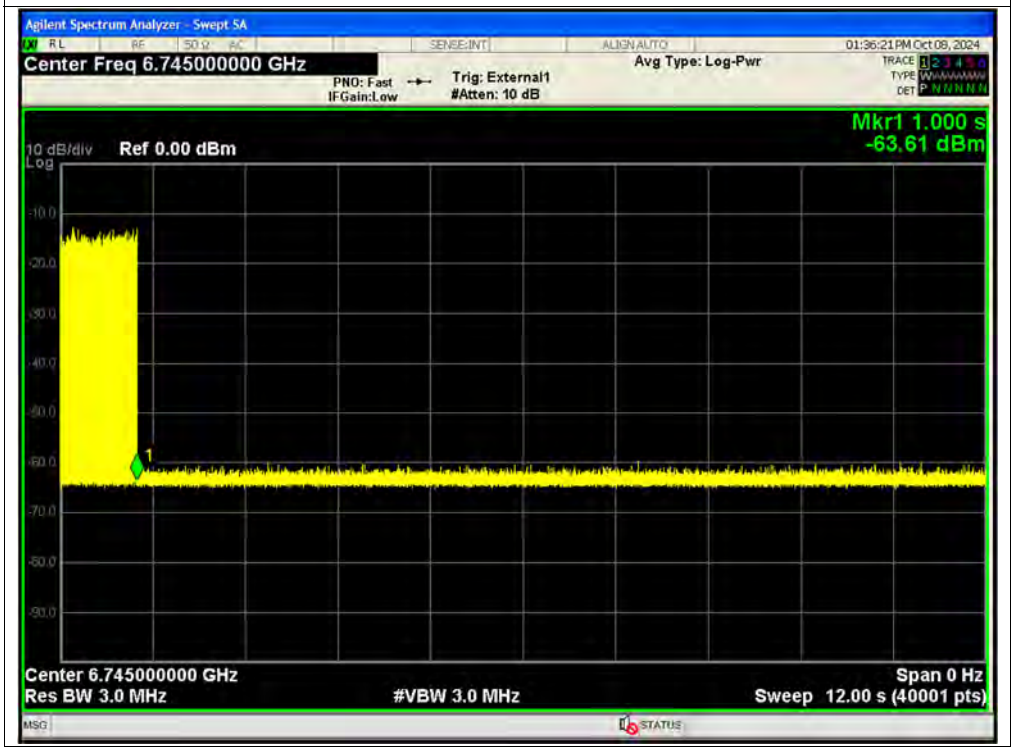
Contention Based Protocol NVNT be320 6745MHz Interfere 6900 MHz_7



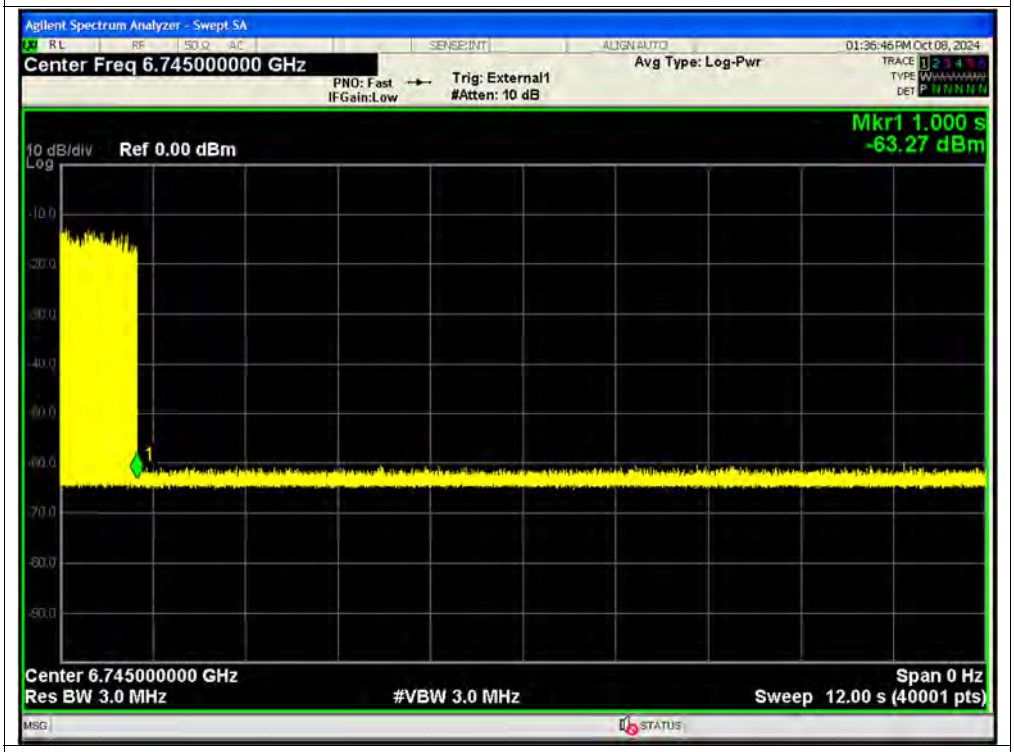
Contention Based Protocol NVNT be320 6745MHz Interfere 6900 MHz_8



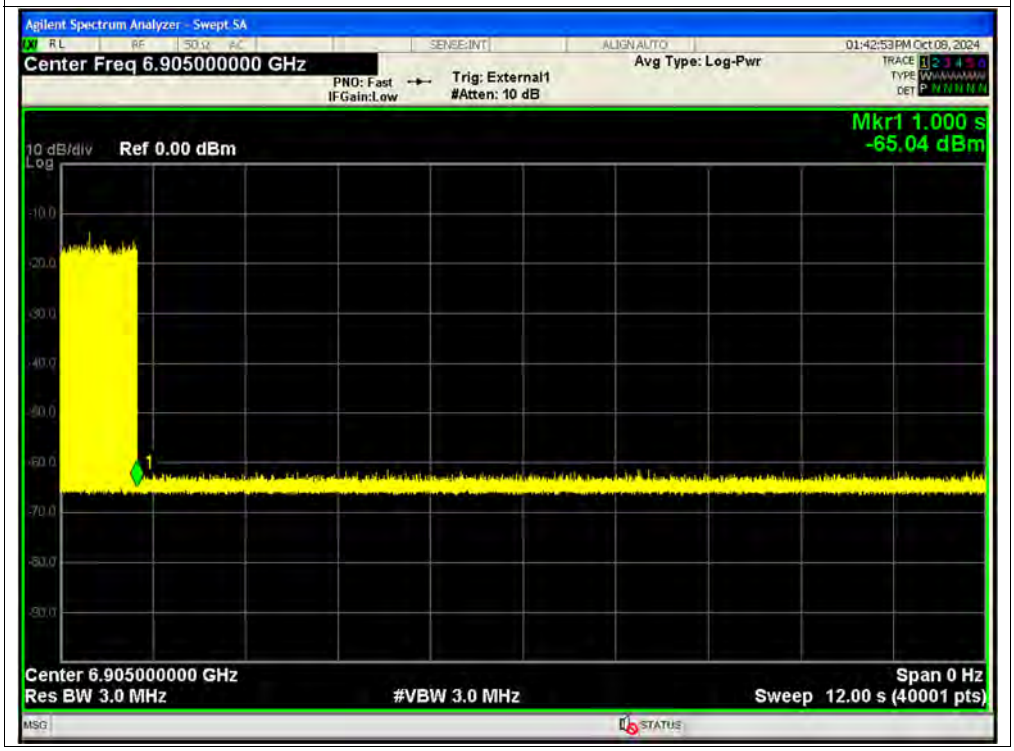
Contention Based Protocol NVNT be320 6745MHz Interfere 6900 MHz_9



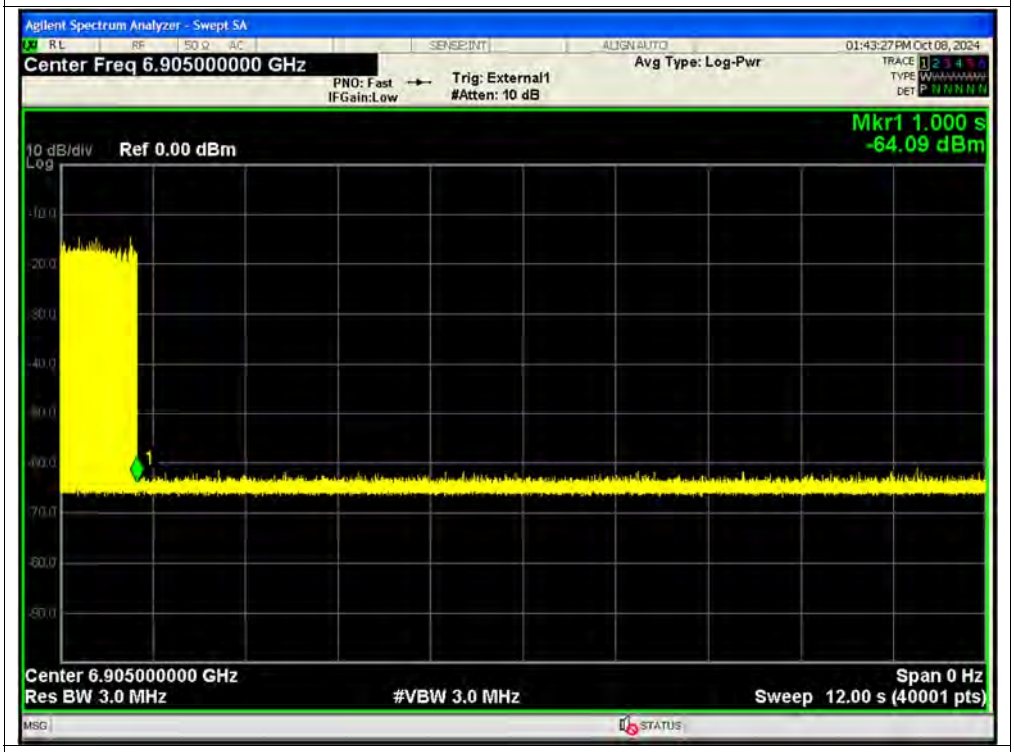
Contention Based Protocol NVNT be320 6745MHz Interfere 6900 MHz_10



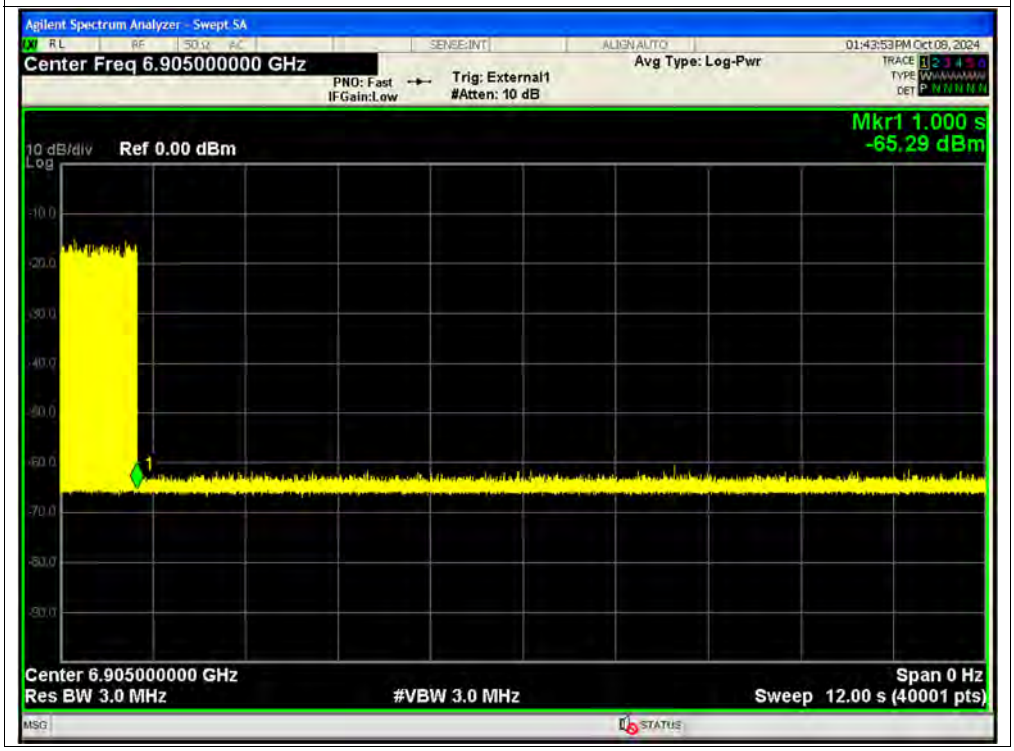
Contention Based Protocol NVNT be320 6905MHz Interfere 6750 MHz_1



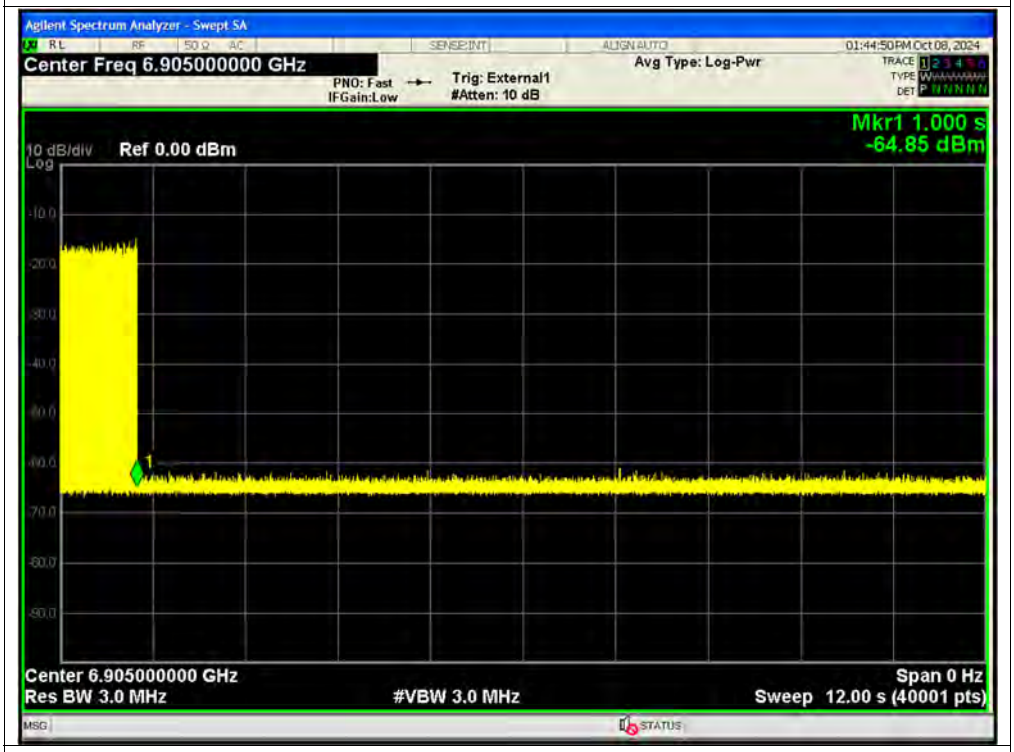
Contention Based Protocol NVNT be320 6905MHz Interfere 6750 MHz_2



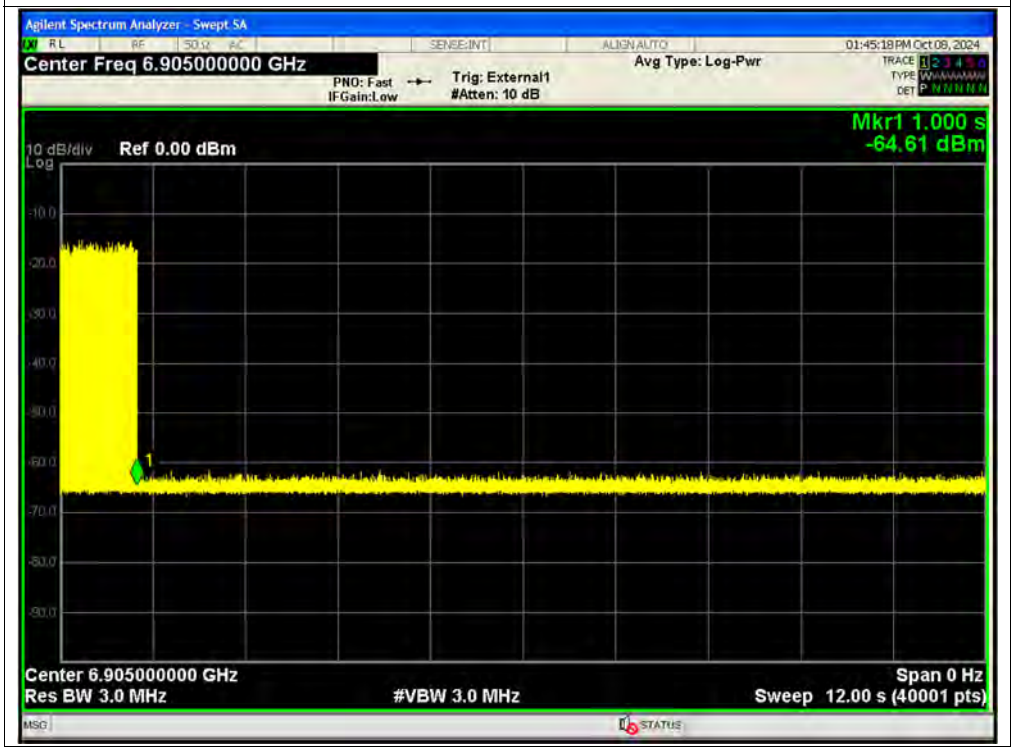
Contention Based Protocol NVNT be320 6905MHz Interfere 6750 MHz_3



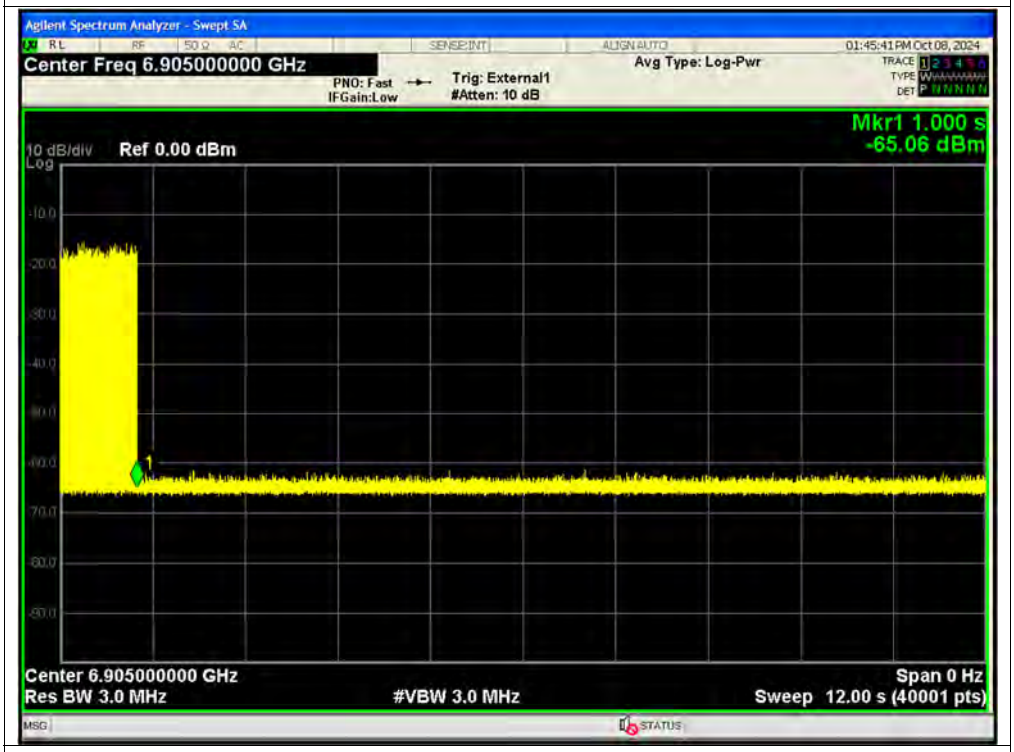
Contention Based Protocol NVNT be320 6905MHz Interfere 6750 MHz_4



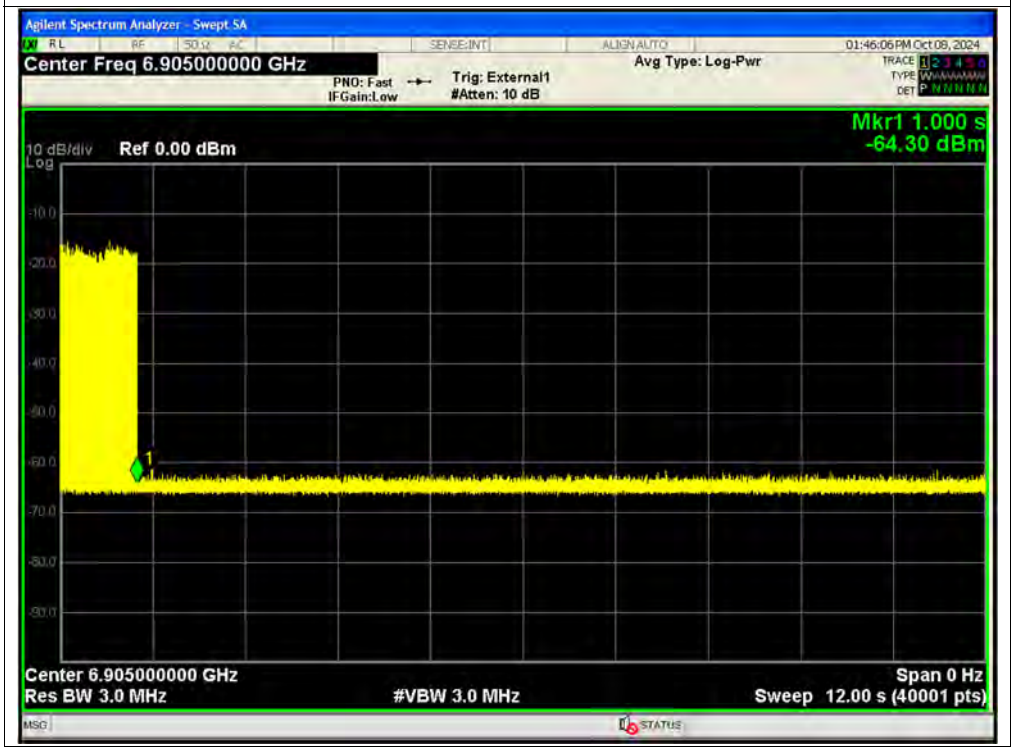
Contention Based Protocol NVNT be320 6905MHz Interfere 6750 MHz_5



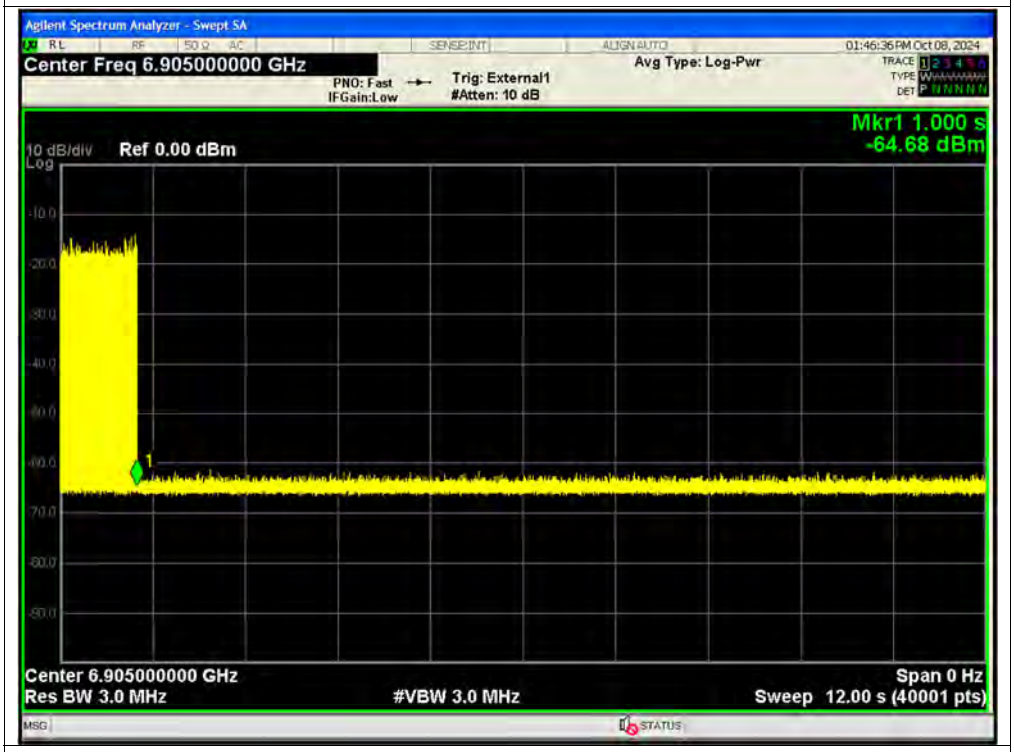
Contention Based Protocol NVNT be320 6905MHz Interfere 6750 MHz_6



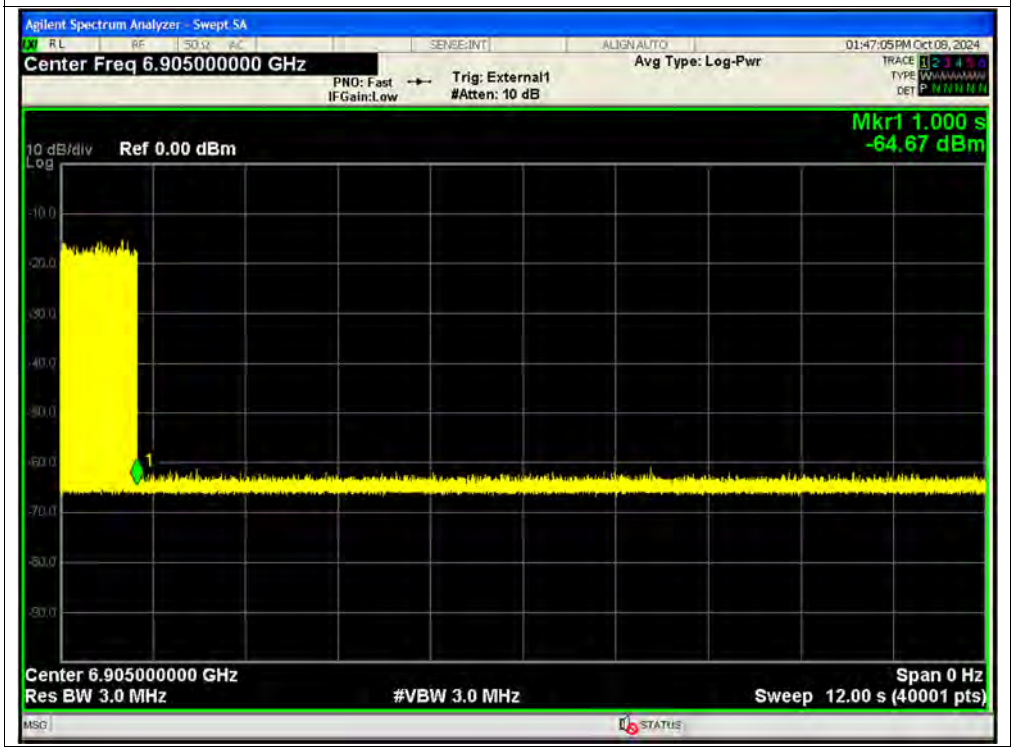
Contention Based Protocol NVNT be320 6905MHz Interfere 6750 MHz_7



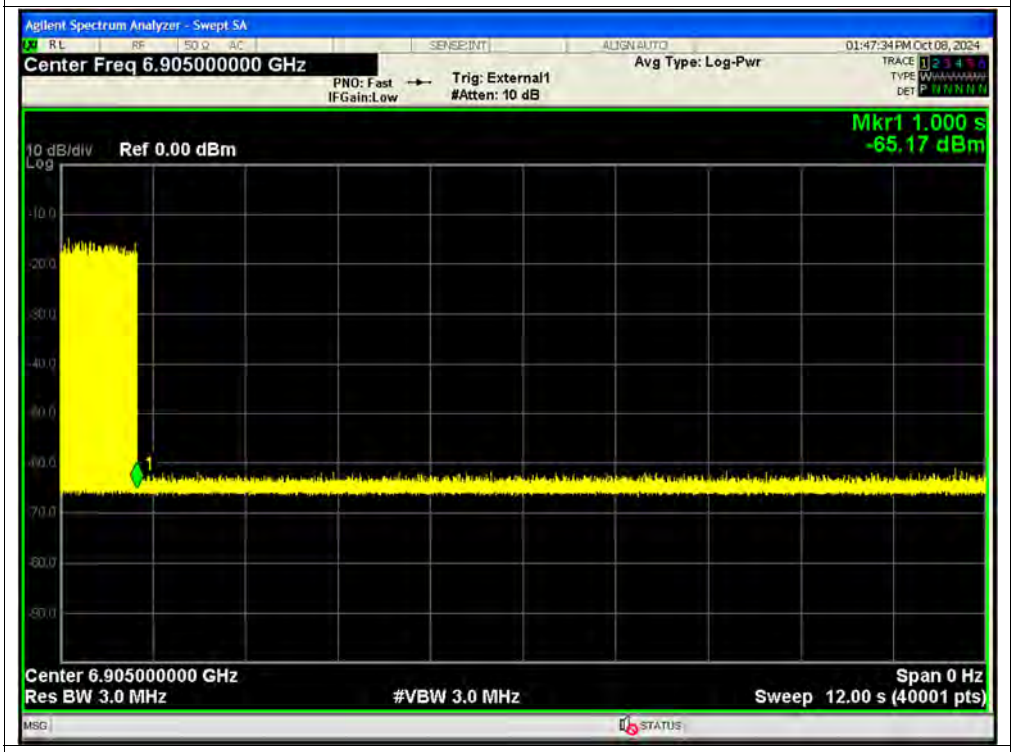
Contention Based Protocol NVNT be320 6905MHz Interfere 6750 MHz_8



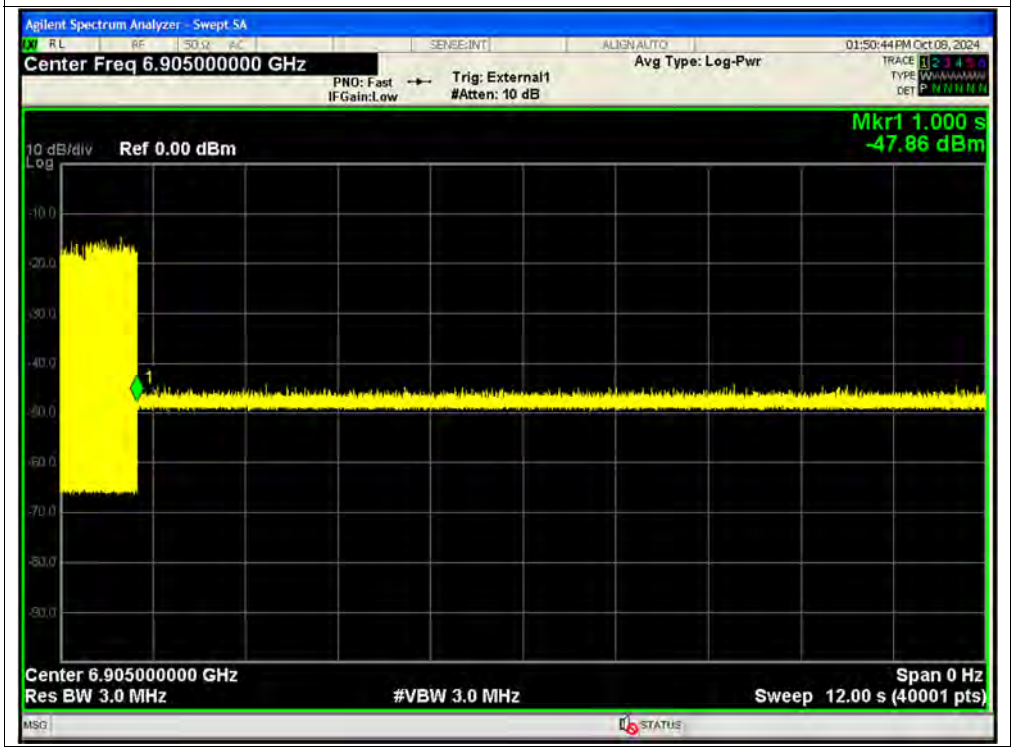
Contention Based Protocol NVNT be320 6905MHz Interfere 6750 MHz_9



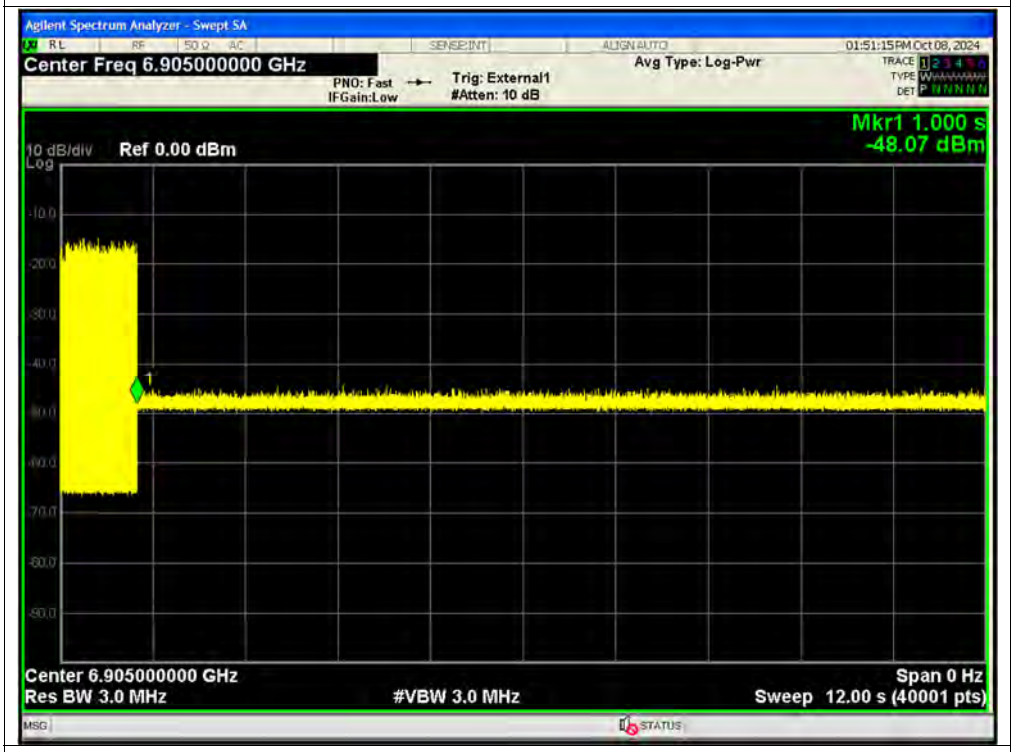
Contention Based Protocol NVNT be320 6905MHz Interfere 6750 MHz_10



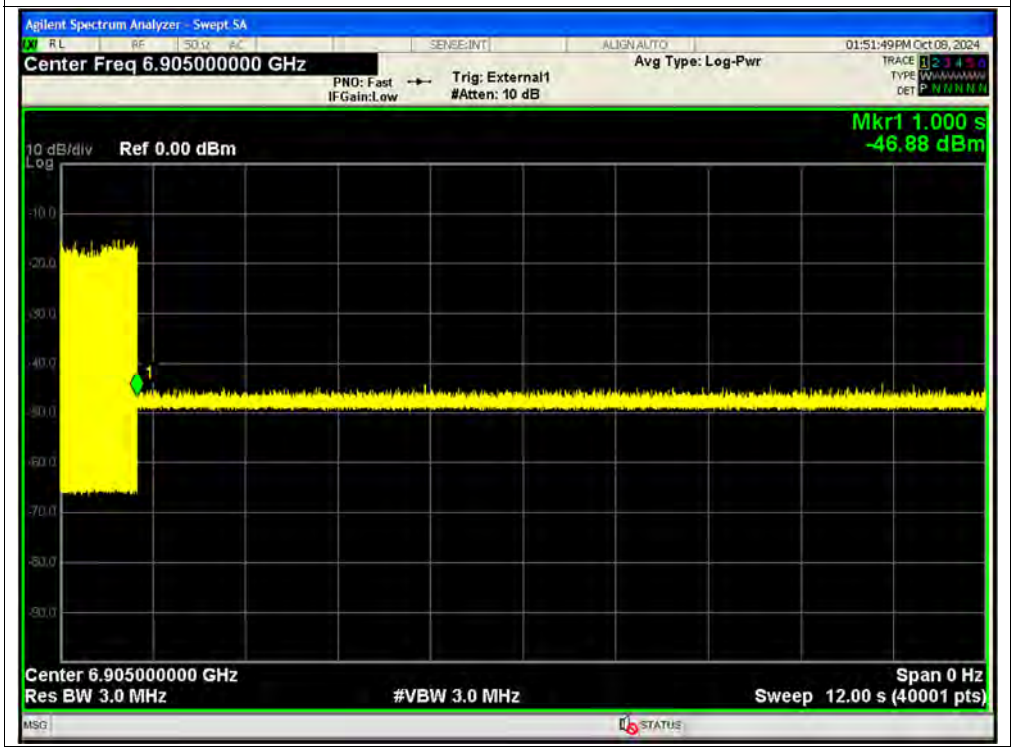
Contention Based Protocol NVNT be320 6905MHz Interfere 6905 MHz_1



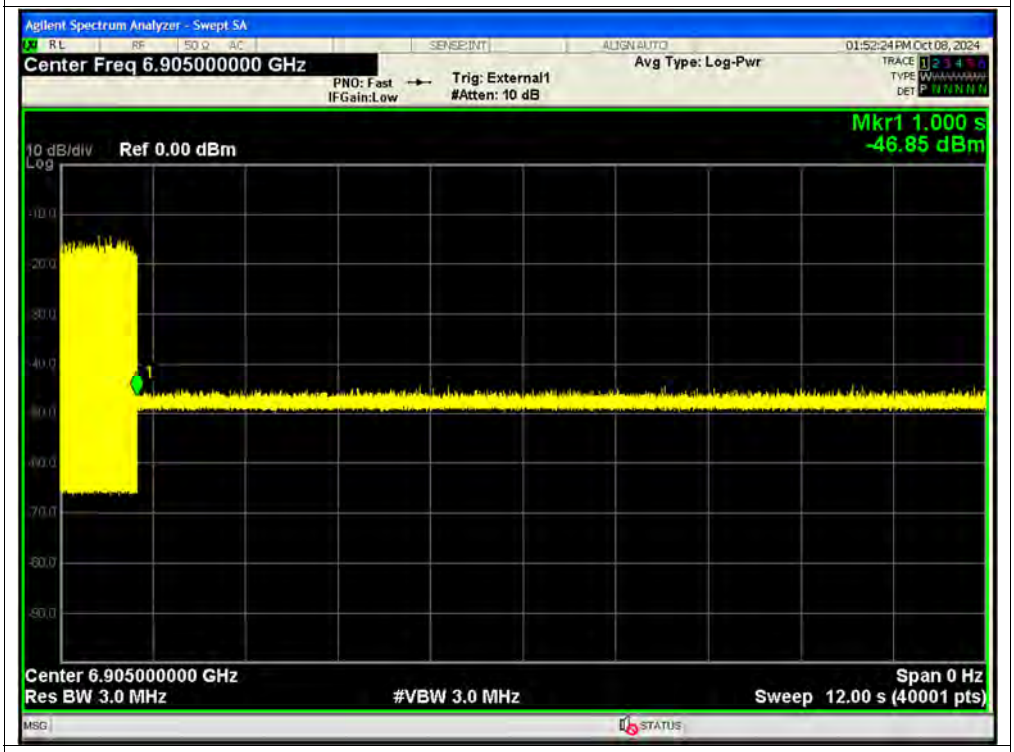
Contention Based Protocol NVNT be320 6905MHz Interfere 6905 MHz_2



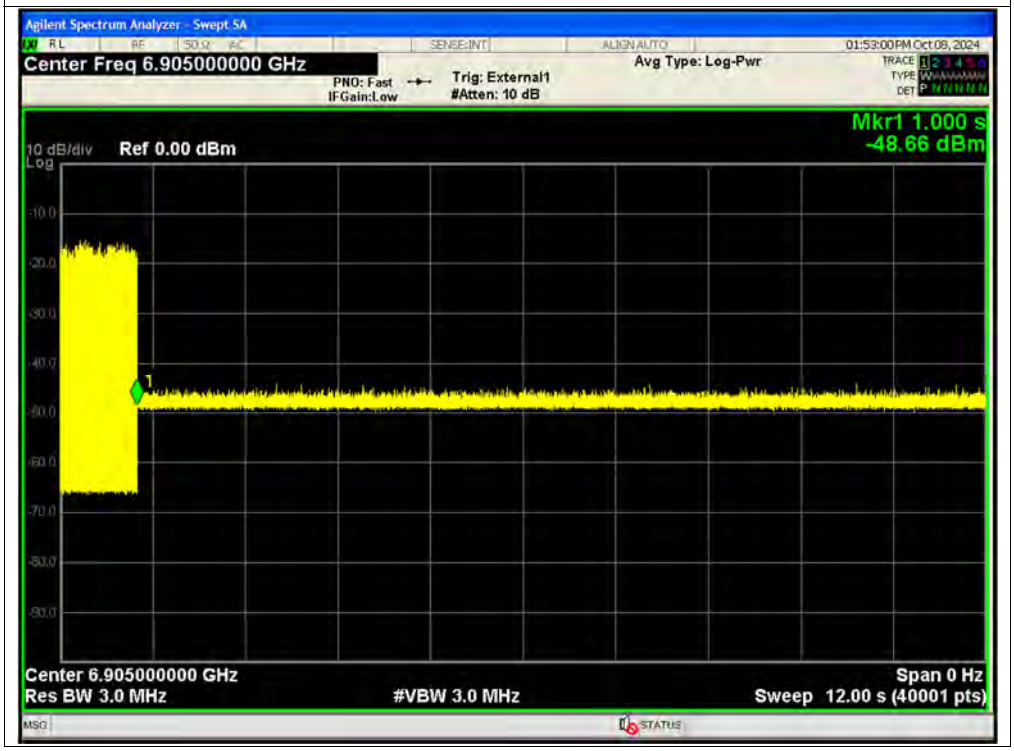
Contention Based Protocol NVNT be320 6905MHz Interfere 6905 MHz_3



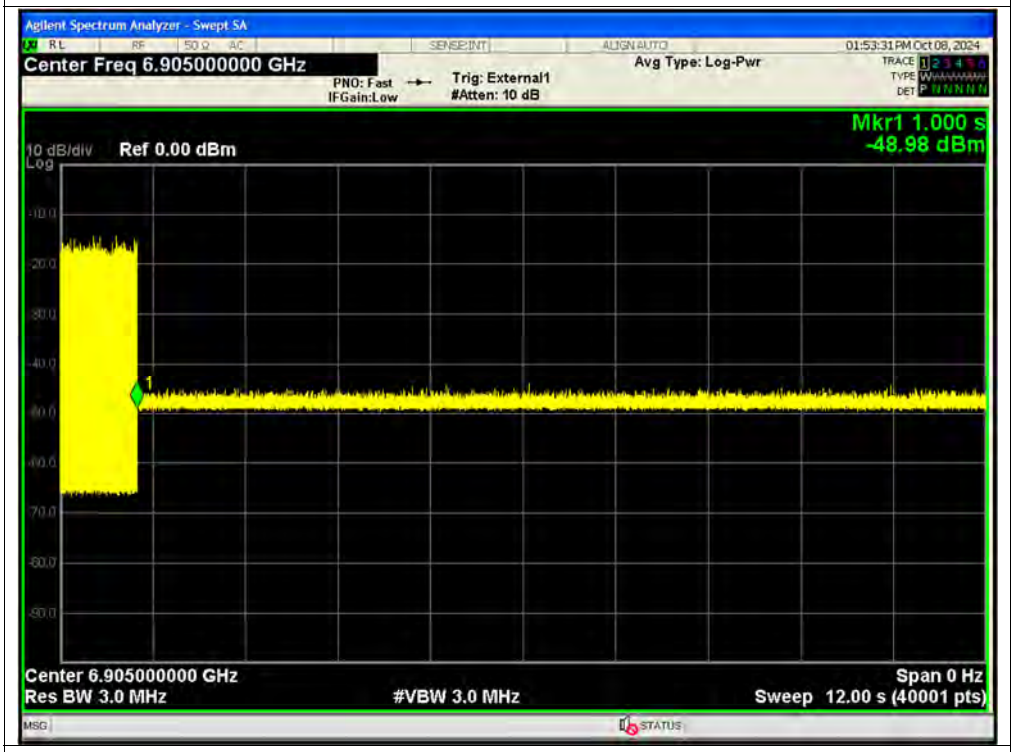
Contention Based Protocol NVNT be320 6905MHz Interfere 6905 MHz_4



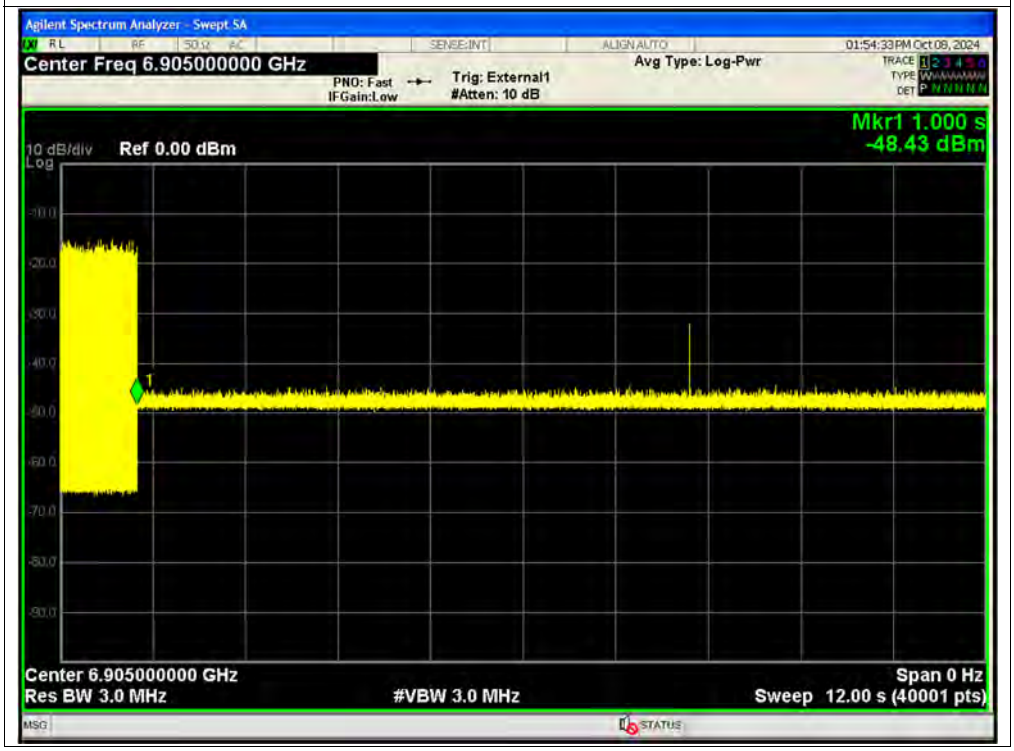
Contention Based Protocol NVNT be320 6905MHz Interfere 6905 MHz_5



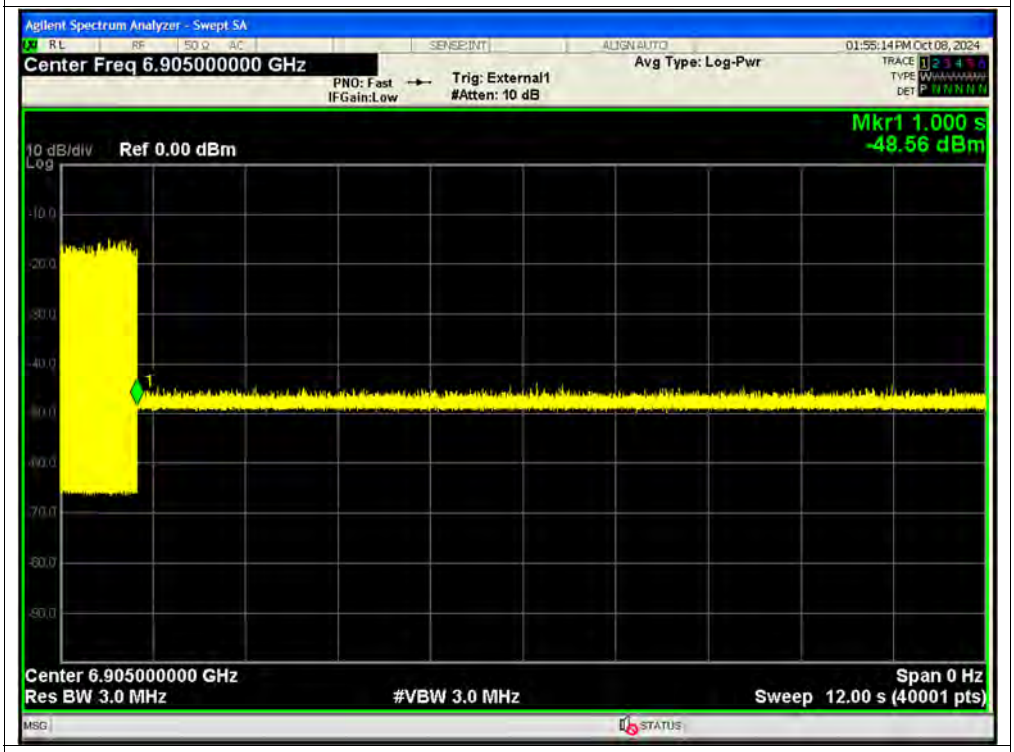
Contention Based Protocol NVNT be320 6905MHz Interfere 6905 MHz_6



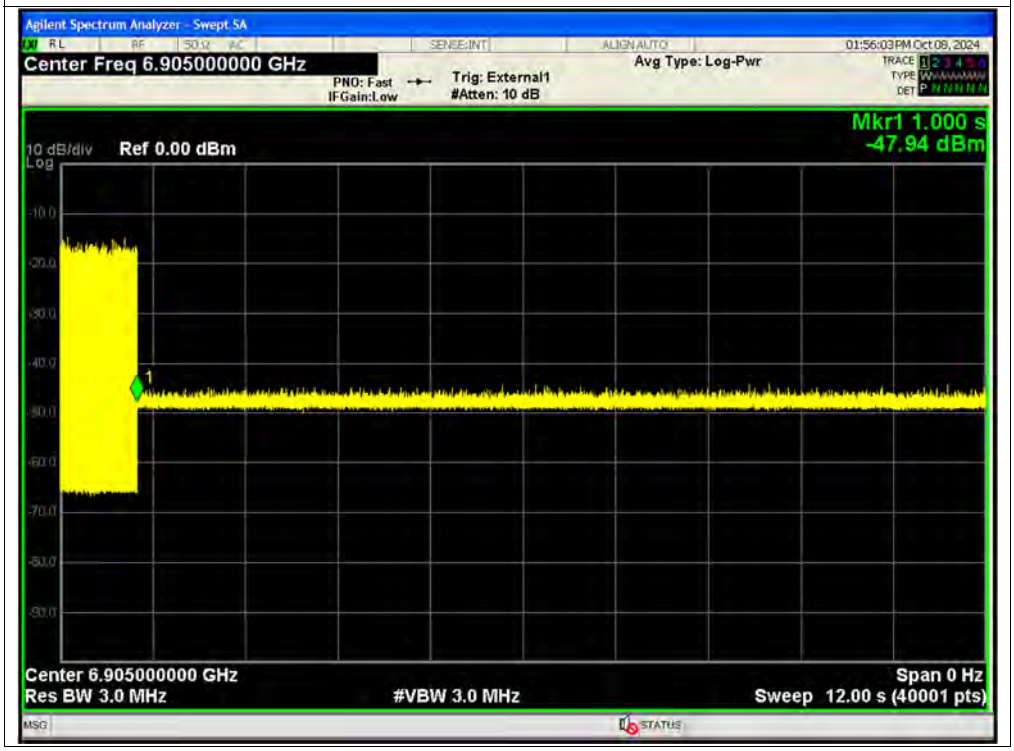
Contention Based Protocol NVNT be320 6905MHz Interfere 6905 MHz_7



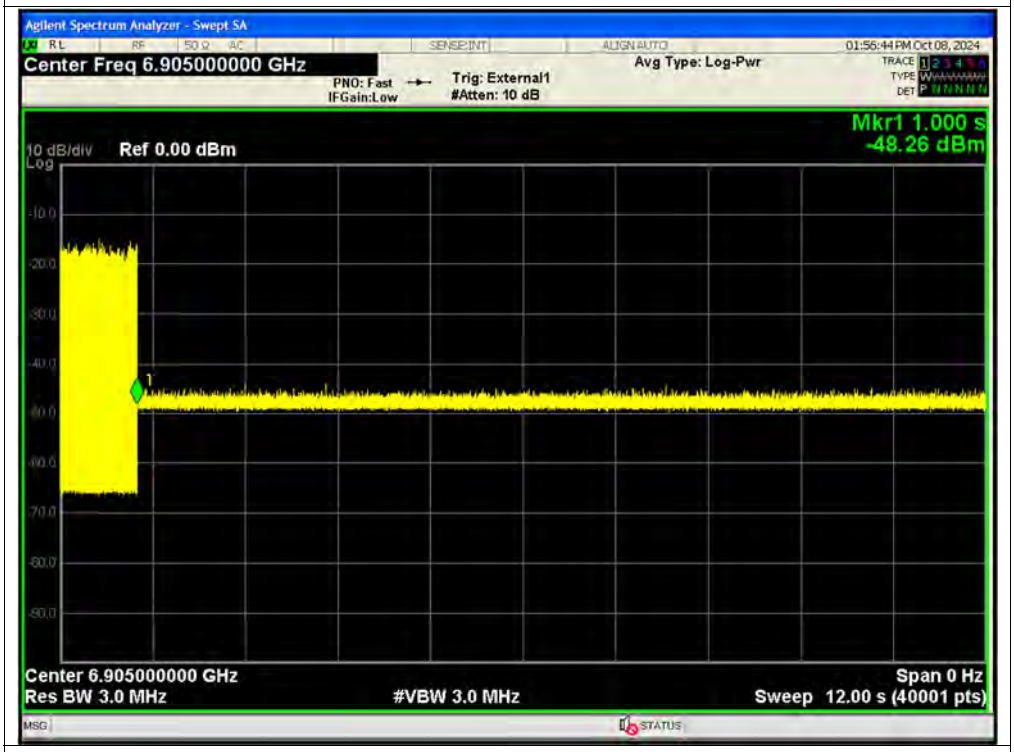
Contention Based Protocol NVNT be320 6905MHz Interfere 6905 MHz_8



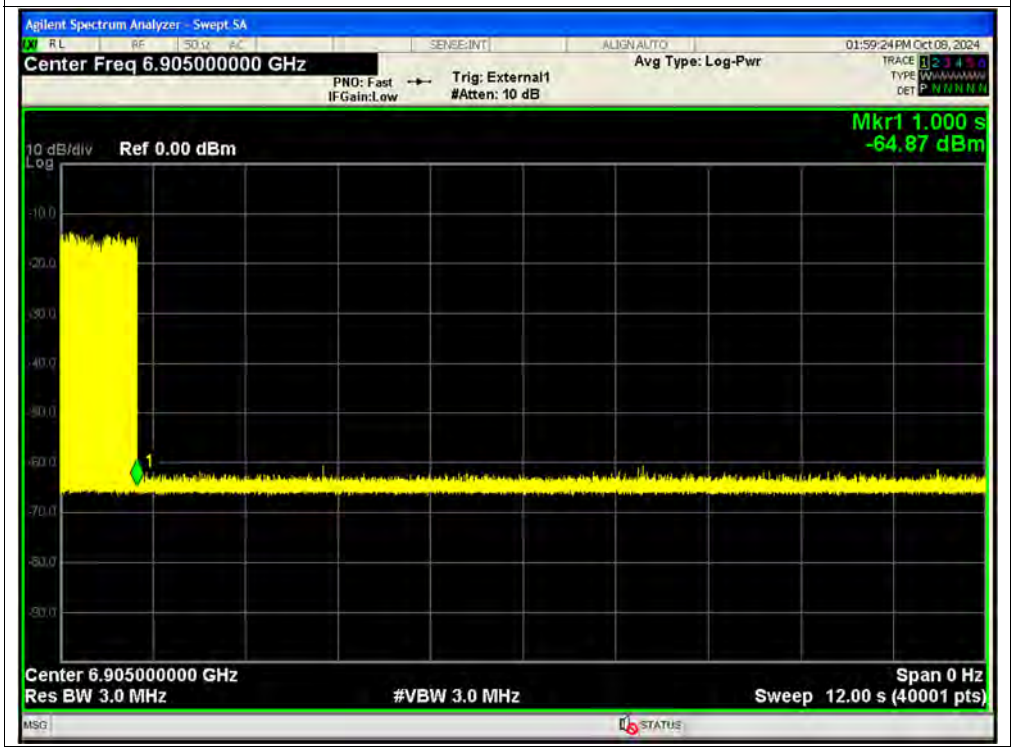
Contention Based Protocol NVNT be320 6905MHz Interfere 6905 MHz_9



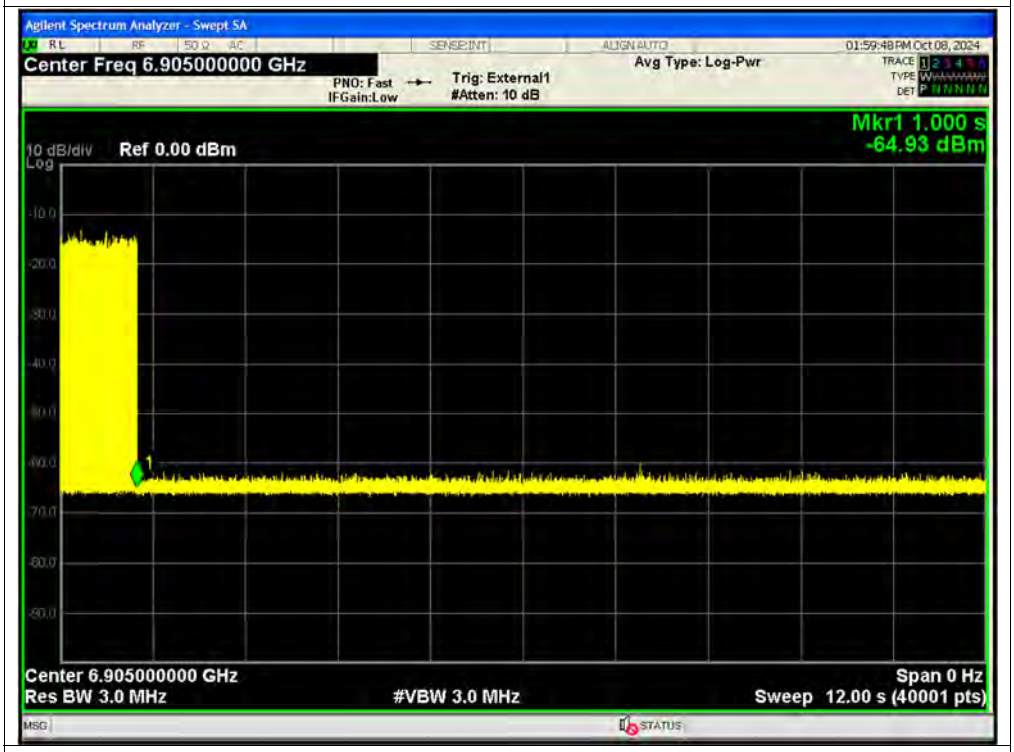
Contention Based Protocol NVNT be320 6905MHz Interfere 6905 MHz_10



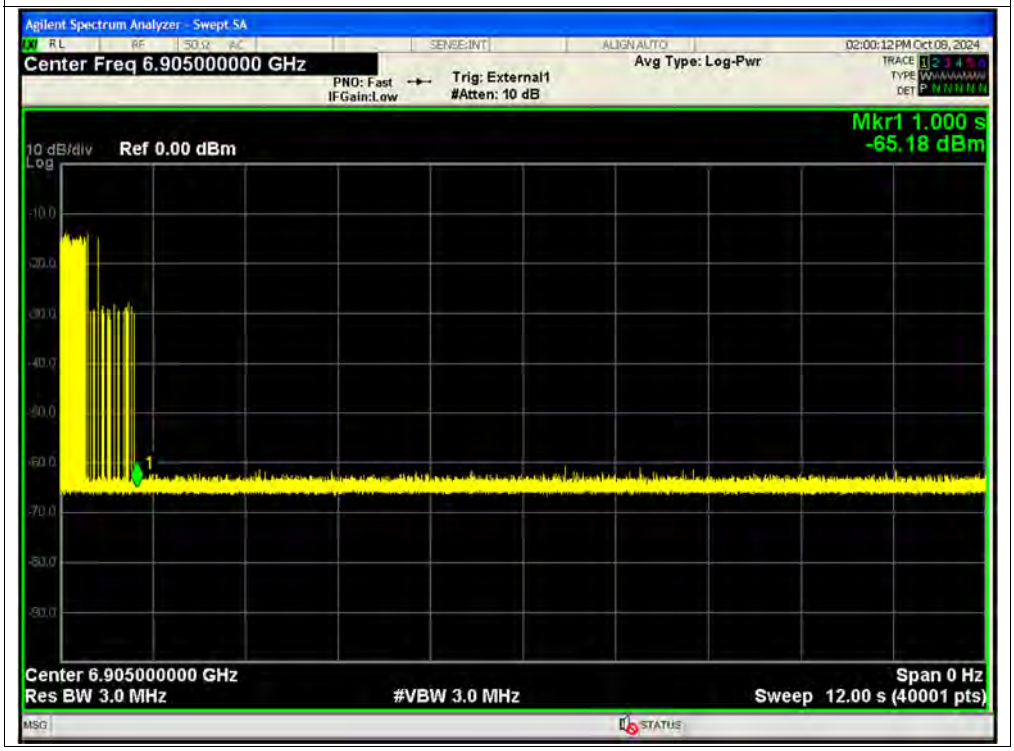
Contention Based Protocol NVNT be320 6905MHz Interfere 7060 MHz_1



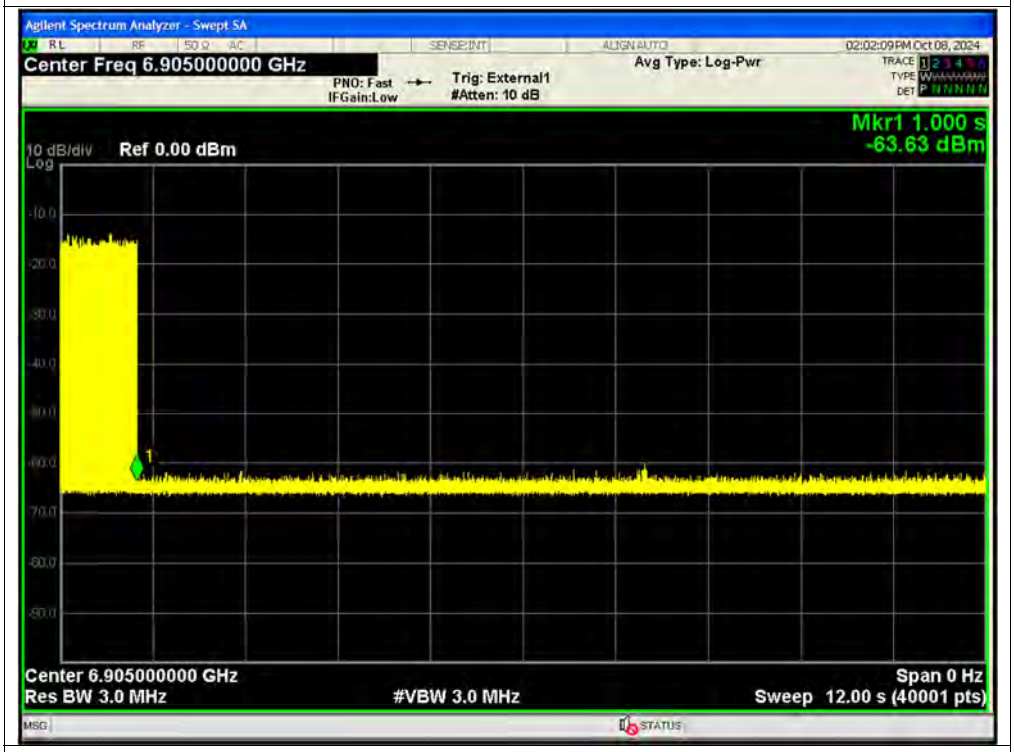
Contention Based Protocol NVNT be320 6905MHz Interfere 7060 MHz_2



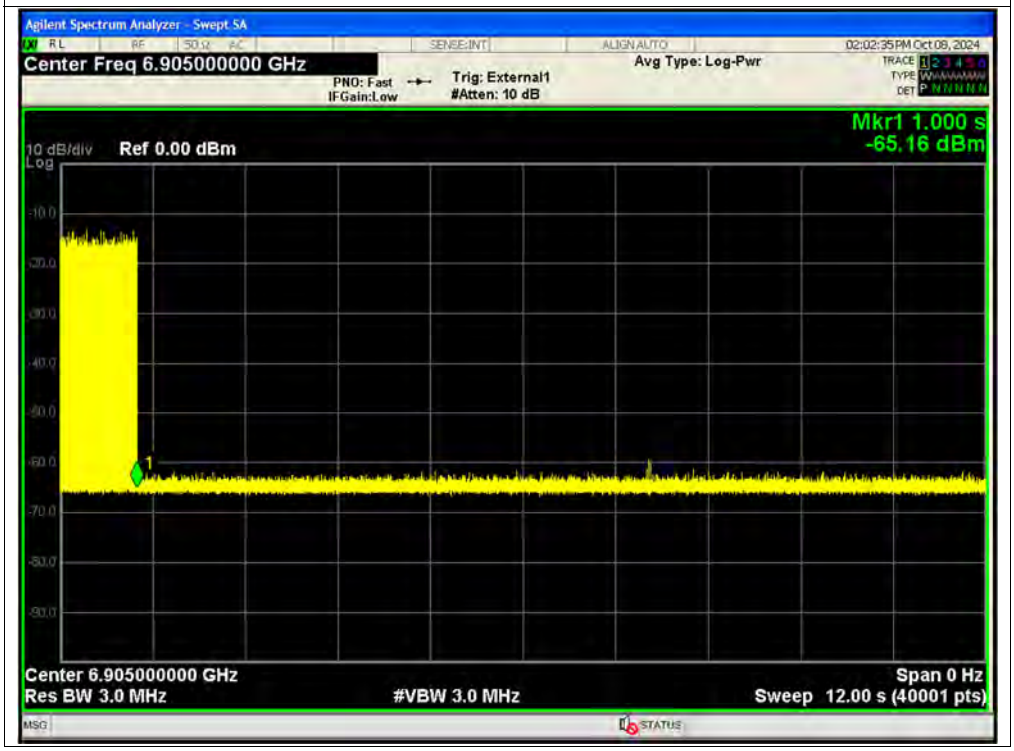
Contention Based Protocol NVNT be320 6905MHz Interfere 7060 MHz_3



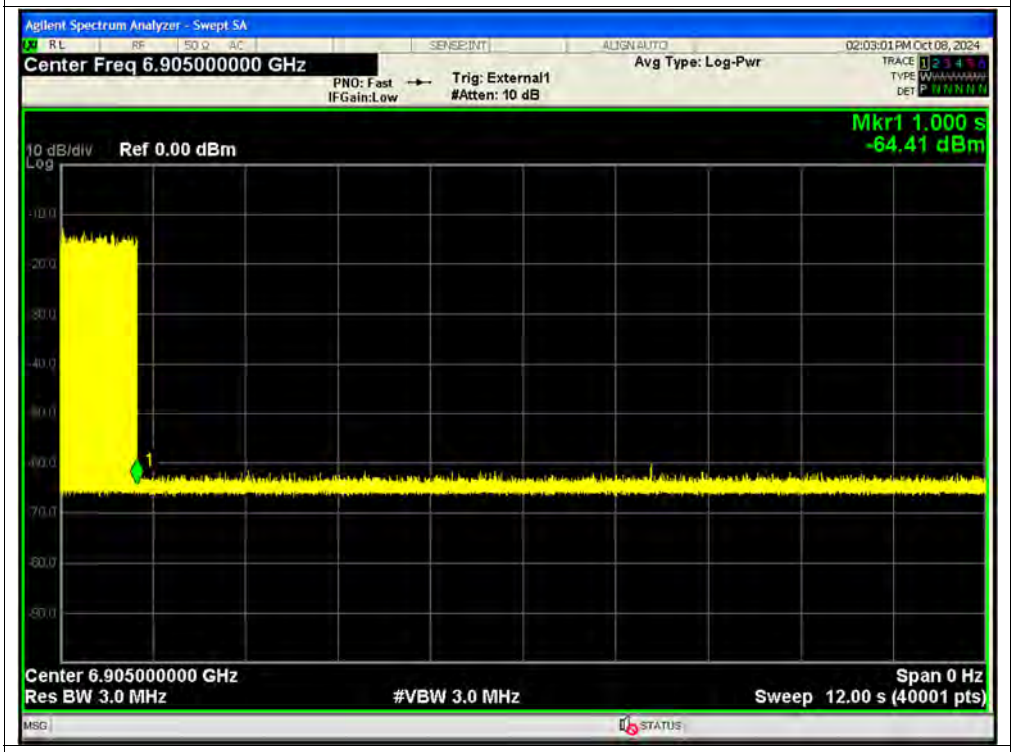
Contention Based Protocol NVNT be320 6905MHz Interfere 7060 MHz_4



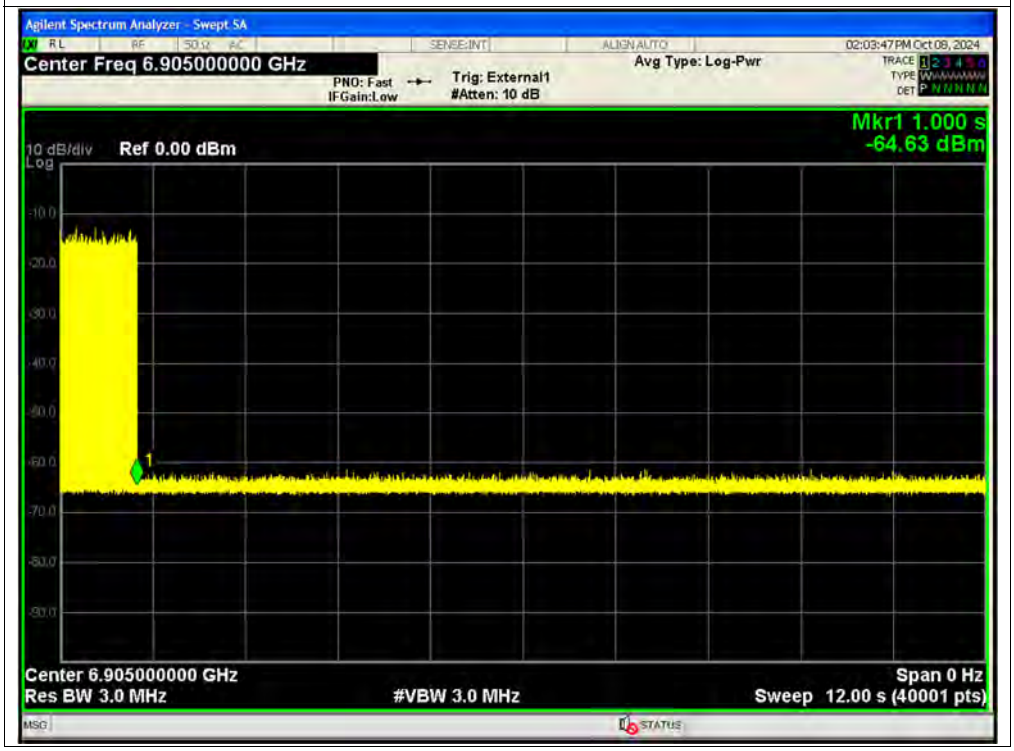
Contention Based Protocol NVNT be320 6905MHz Interfere 7060 MHz_5



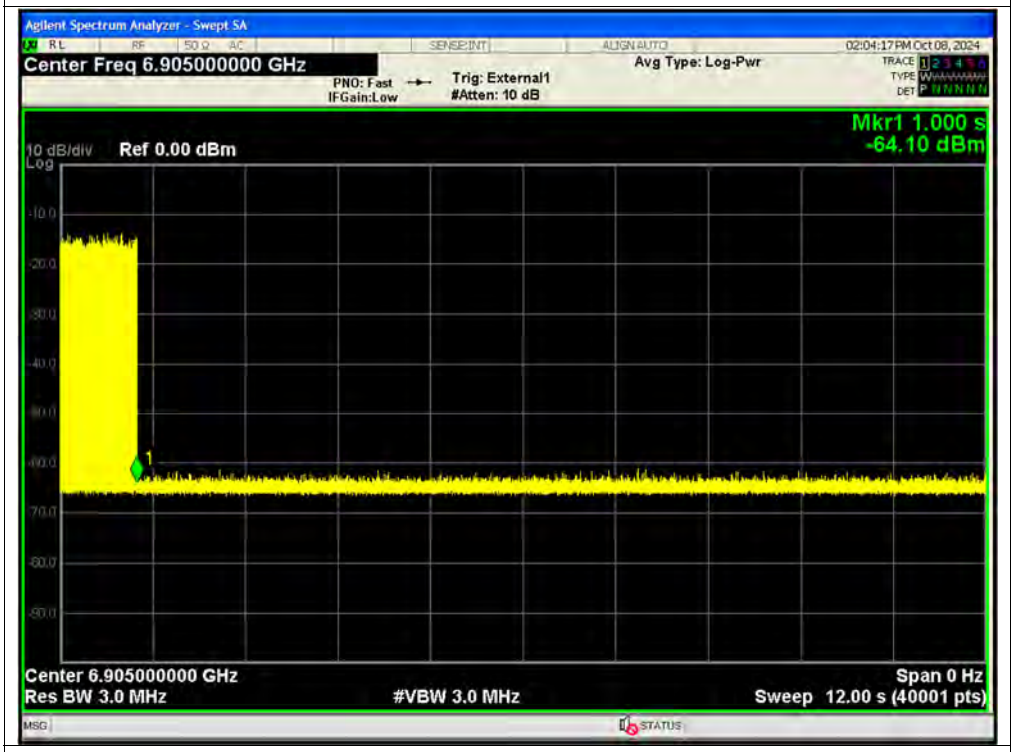
Contention Based Protocol NVNT be320 6905MHz Interfere 7060 MHz_6



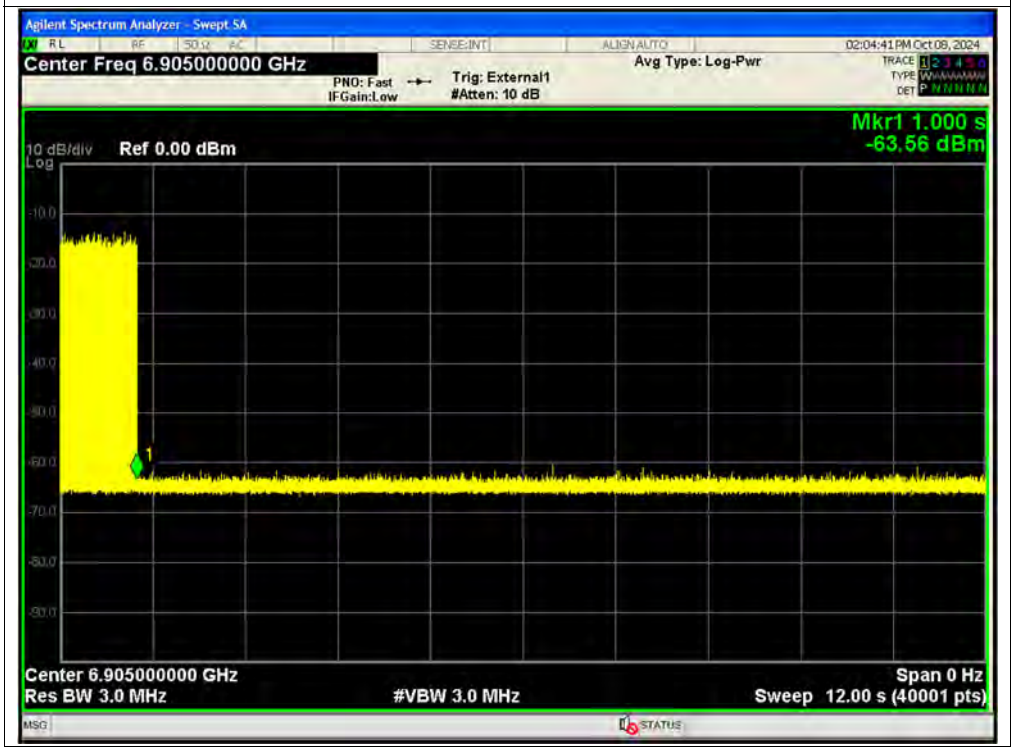
Contention Based Protocol NVNT be320 6905MHz Interfere 7060 MHz_7

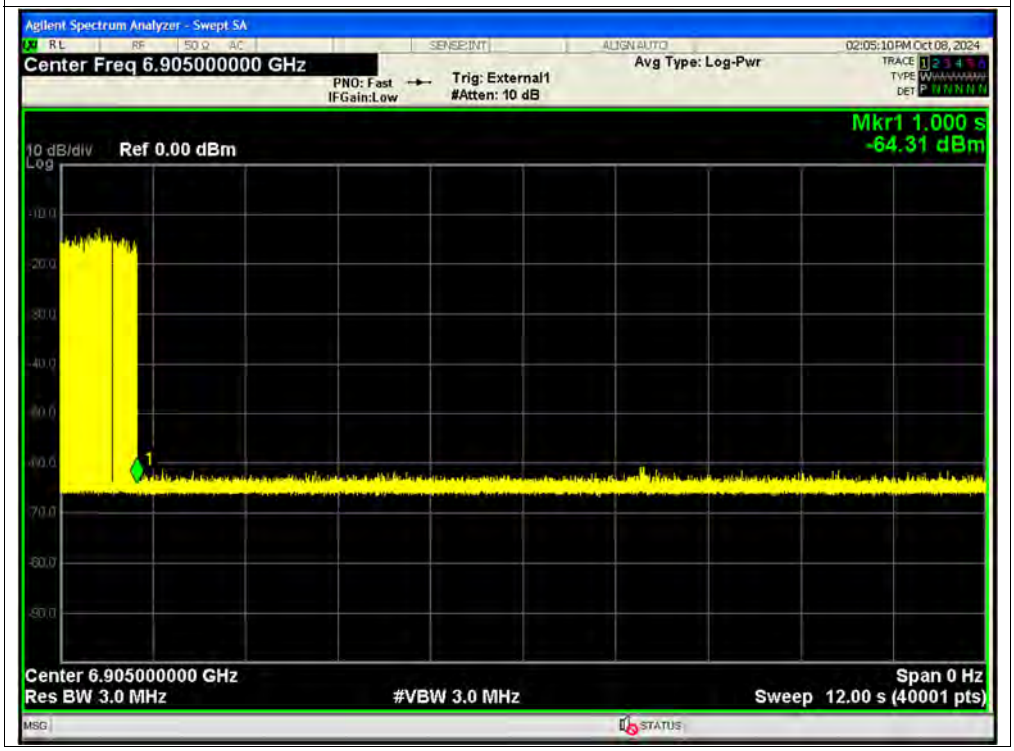


Contention Based Protocol NVNT be320 6905MHz Interfere 7060 MHz_8



Contention Based Protocol NVNT be320 6905MHz Interfere 7060 MHz_9



Contention Based Protocol NVNT be320 6905MHz Interfere 7060 MHz_10


c. Detection Probability Summary

Condition	Mode	Frequency (MHz)	Antenna	AWGN Location	AWGN Frequency (MHz)	Test Number	Number Detected	Result (%)	Limit (%)	Verdict
NVNT	be20	5955	Ant12	Center	5955	10	10	100	90	Pass
NVNT	be20	6455	Ant12	Center	6455	10	10	100	90	Pass
NVNT	be20	6695	Ant12	Center	6695	10	9	90	90	Pass
NVNT	be20	6935	Ant12	Center	6935	10	10	100	90	Pass
NVNT	be320	6105	Ant12	Low	5950	10	10	100	90	Pass
NVNT	be320	6105	Ant12	Center	6105	10	9	90	90	Pass
NVNT	be320	6105	Ant12	High	6260	10	10	100	90	Pass
NVNT	be320	6745	Ant12	Low	6590	10	10	100	90	Pass
NVNT	be320	6745	Ant12	Center	6745	10	9	90	90	Pass
NVNT	be320	6745	Ant12	High	6900	10	9	90	90	Pass
NVNT	be320	6905	Ant12	Low	6750	10	10	100	90	Pass
NVNT	be320	6905	Ant12	Center	6905	10	9	90	90	Pass
NVNT	be320	6905	Ant12	High	7060	10	10	100	90	Pass

A.7.Dual Client Test

Mode	Freq. (MHz)	Power of Client (dBm)		Limit (dBm)		Verdict
		Under control of 6SD	Under control of 6ID	Under control of 6SD	Under ontrol of 6ID	
ax20 SISO	5955	15.06	11.65	30	24	Pass

Power of Client under control of 6SD



Power of Client under control of 6ID


MultiView
Spectrum
Ref Level 38.00 dBm Offset 38.00 dB RBW (CISPR) 1 MHz
Att 10 dB SWT 130 s VBW 3 MHz Mode Auto Sweep
1 Frequency Sweep
1Pk Max
M1[1] -4.30 dBm
5.955000 0 GHz
CF 5.955 GHz
1001 pts
3.0 MHz/
Span 30.0 MHz
2 Marker Table
Type Ref Trc X-Value Y-Value Function Function Result
M1 1 5.955 GHz -4.30 dBm Band Power/20.0 MHz 11.65 dBm
Measuring...
05.11.2024
16:24:40
16:24:40 05.11.2024

A.8.Proper Power Adjustment

Mode	Freq. (MHz)	Power Level Of AP	Conducted Power(dBm)		EIRP(dBm)		EIRP Differential (dB)	Limit (dB)	Verdict
			AP@ Trace 1	EUT @Trace 2	AP@ Trace 1	EUT @Trace 2			
ax20	5955	Maximum	28.44	18.28	30.24	13.28	16.96	⩾6	Pass
ax20	5955	Mid-Point	25.11	15.25	26.91	10.25	16.66	⩾6	Pass
ax20	5955	Lowest	14.18	4.11	15.98	-0.89	16.87	⩾6	Pass

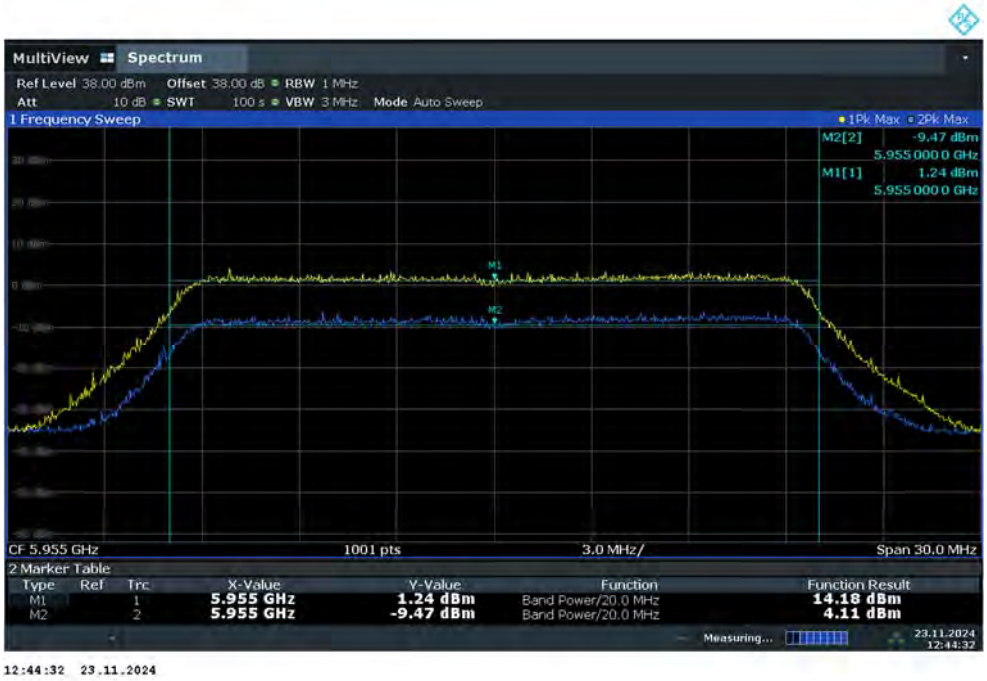
Proper Power Adjustment @Maximum EIRP



Proper Power Adjustment @Mid-point EIRP



Proper Power Adjustment @Lowest EIRP



A.9.Frequency Stability

Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
20C 3.5V	Carrier	5955	Ant12	5954.988	-12000	-2.02	25	Pass
20C 3.93V	Carrier	5955	Ant12	5954.988	-12000	-2.02	25	Pass
20C 4.5V	Carrier	5955	Ant12	5954.988	-12000	-2.02	25	Pass
0C 3.93V	Carrier	5955	Ant12	5954.988	-12000	-2.02	25	Pass
10C 3.93V	Carrier	5955	Ant12	5954.988	-12000	-2.02	25	Pass
30C 3.93V	Carrier	5955	Ant12	5954.988	-12000	-2.02	25	Pass
35C 3.93V	Carrier	5955	Ant12	5954.988	-12000	-2.02	25	Pass
20C 3.5V	Carrier	6535	Ant12	6534.986	-14000	-2.14	25	Pass
20C 3.93V	Carrier	6535	Ant12	6534.986	-14000	-2.14	25	Pass
20C 4.5V	Carrier	6535	Ant12	6534.986	-14000	-2.14	25	Pass
0C 3.93V	Carrier	6535	Ant12	6534.986	-14000	-2.14	25	Pass
10C 3.93V	Carrier	6535	Ant12	6534.986	-14000	-2.14	25	Pass
30C 3.93V	Carrier	6535	Ant12	6534.986	-14000	-2.14	25	Pass
35C 3.93V	Carrier	6535	Ant12	6534.986	-14000	-2.14	25	Pass
20C 3.5V	Carrier	6435	Ant12	6434.984	-16000	-2.49	25	Pass
20C 3.93V	Carrier	6435	Ant12	6434.984	-16000	-2.49	25	Pass
20C 4.5V	Carrier	6435	Ant12	6434.984	-16000	-2.49	25	Pass
0C 3.93V	Carrier	6435	Ant12	6434.984	-16000	-2.49	25	Pass
10C 3.93V	Carrier	6435	Ant12	6434.984	-16000	-2.49	25	Pass
30C 3.93V	Carrier	6435	Ant12	6434.984	-16000	-2.49	25	Pass
35C 3.93V	Carrier	6435	Ant12	6434.984	-16000	-2.49	25	Pass
20C 3.5V	Carrier	6875	Ant12	6874.984	-16000	-2.33	25	Pass
20C 3.93V	Carrier	6875	Ant12	6874.983	-17000	-2.47	25	Pass
20C 4.5V	Carrier	6875	Ant12	6874.984	-16000	-2.33	25	Pass
0C 3.93V	Carrier	6875	Ant12	6874.984	-16000	-2.33	25	Pass
10C 3.93V	Carrier	6875	Ant12	6874.983	-17000	-2.47	25	Pass
30C 3.93V	Carrier	6875	Ant12	6874.983	-17000	-2.47	25	Pass
35C 3.93V	Carrier	6875	Ant12	6874.983	-17000	-2.47	25	Pass

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 + Adapter + Data line + WIFI TX

Test voltage: AC 120V/60Hz

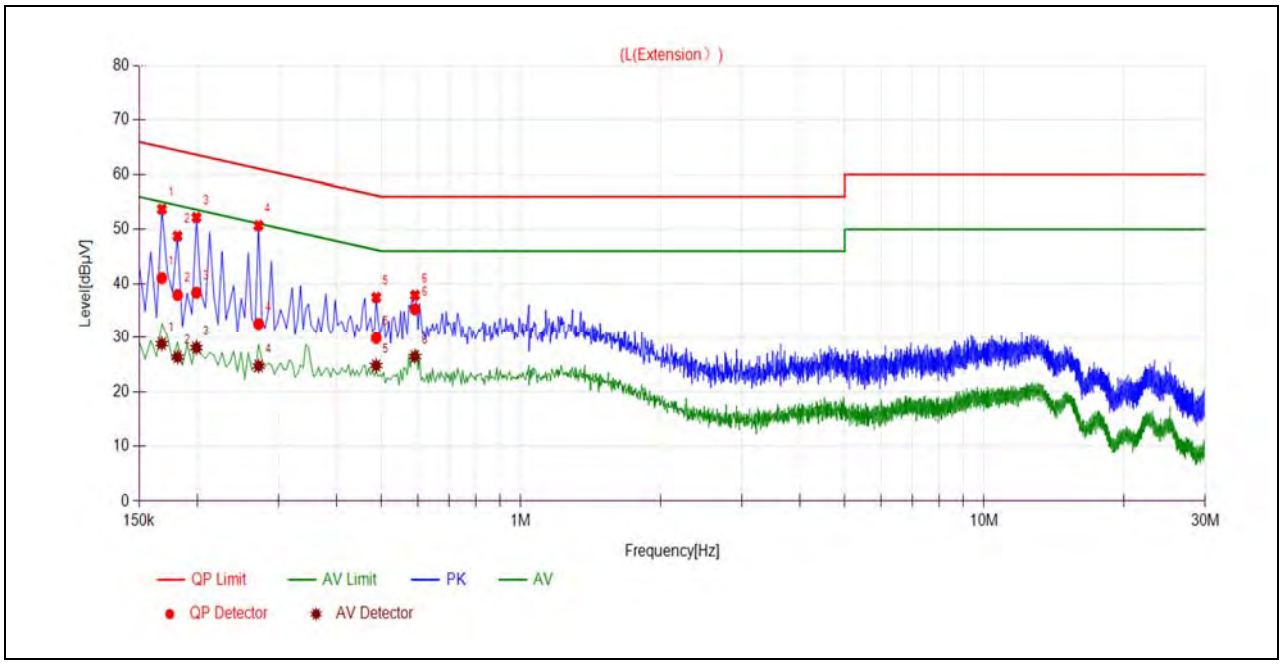
The measurement results are obtained as below:

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

U_R: Receiver Reading

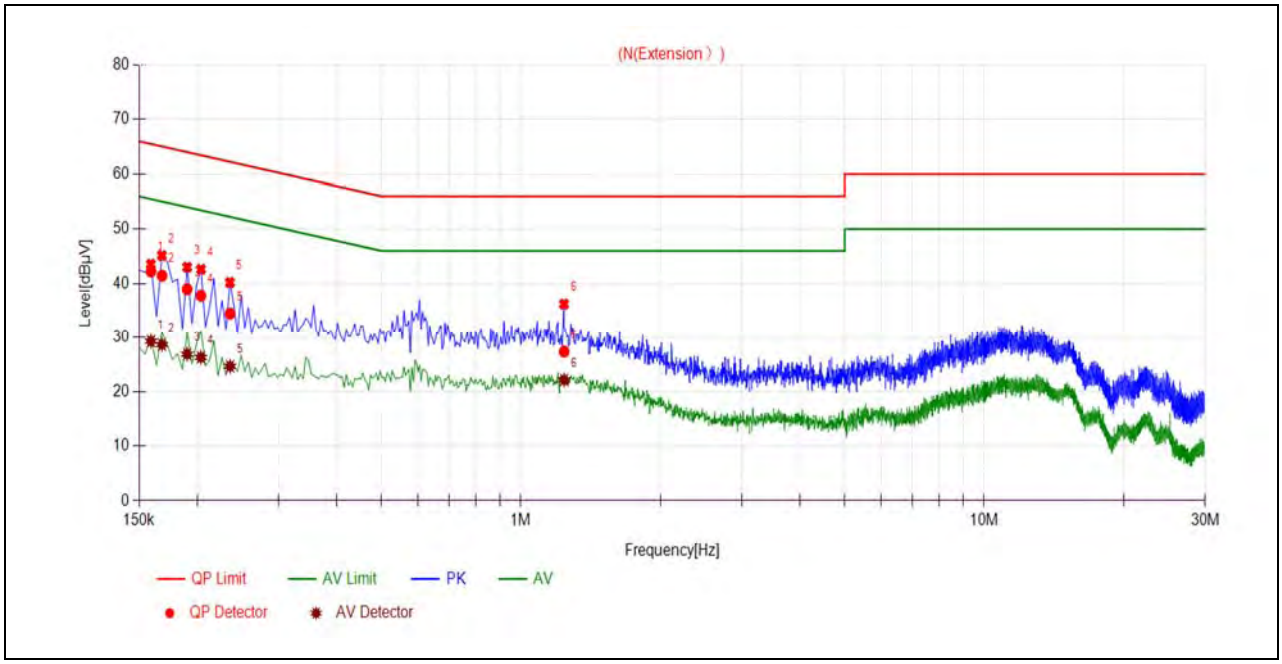
A_{Factor}: Voltage division factor of LISN

B. Test Plot:



(L Phase)

No.	Fre. (MHz)	Emission Level (dBµV)		Limit (dBµV)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.1679	41.05	28.80	65.06	55.06	Line	PASS
2	0.1816	37.92	26.34	64.41	54.41		PASS
3	0.1993	38.33	28.06	63.64	53.64		PASS
4	0.2716	32.55	24.71	61.07	51.07		PASS
5	0.4871	29.86	24.77	56.22	46.22		PASS
6	0.5907	35.30	26.45	56.00	46.00		PASS



(N Phase)

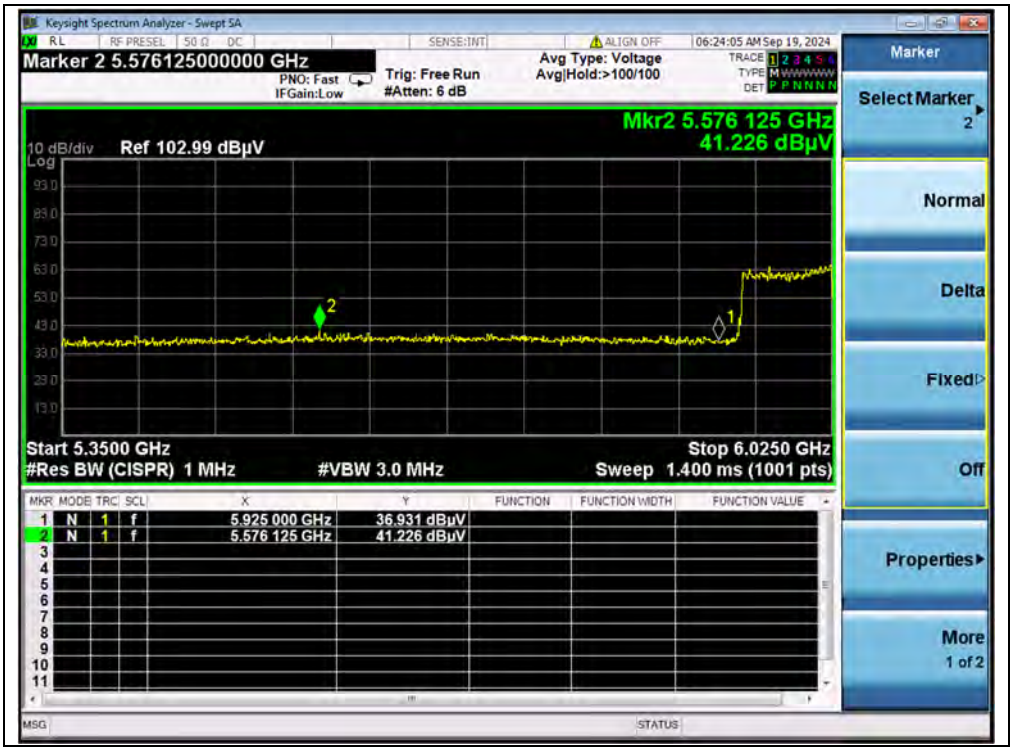
No.	Fre. (MHz)	Emission Level (dBµV)		Limit (dBµV)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.1591	42.23	29.27	65.51	55.51	Neutral	PASS
2	0.1680	41.46	28.64	65.06	55.06		PASS
3	0.1904	38.97	26.87	64.02	54.02		PASS
4	0.2039	37.78	26.29	63.45	53.45		PASS
5	0.2357	34.48	24.64	62.25	52.25		PASS
6	1.2399	27.35	22.11	56.00	46.00		PASS

A.11.Restricted Frequency Bands

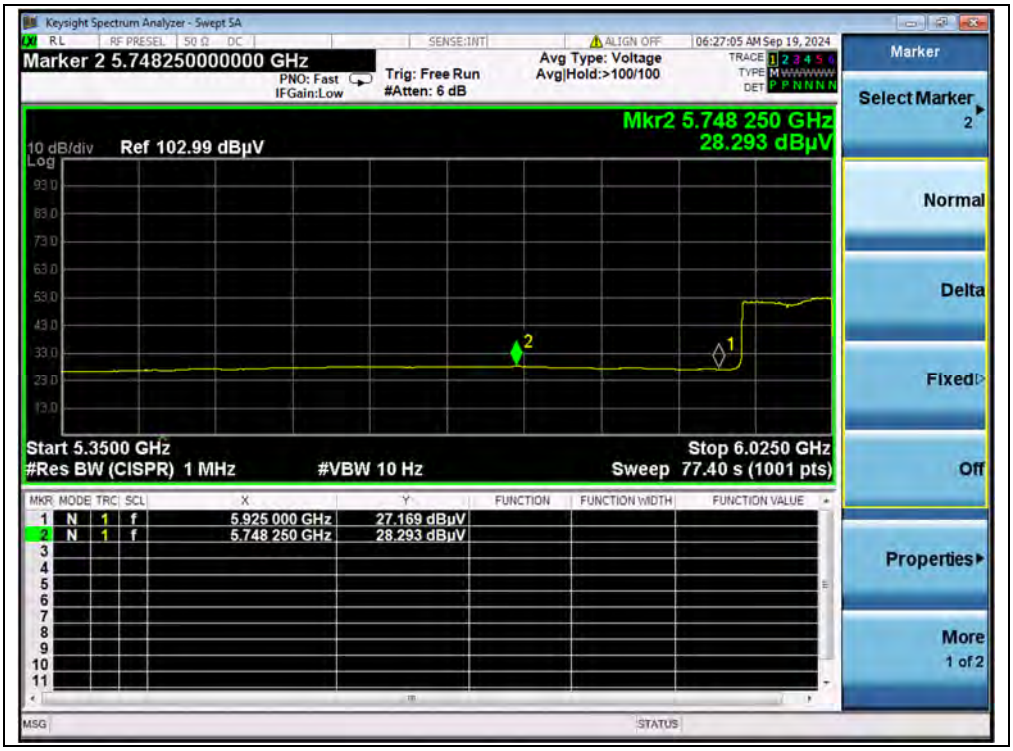
The lowest and highest channels are tested to verify the Restricted Frequency Bands.
The measurement results are obtained as below:
E [dBμV/m] =U_R + A_T + A_{Factor} [dB]; A_T =$L_{Cable\ loss}$ [dB]-G_{preamp} [dB]
A_T: Total correction Factor except Antenna
U_R: Receiver Reading
G_{preamp}: Preamplifier Gain
A_{Factor}: Antenna Factor at 3m
Note 1: Restricted Frequency Bands were performed when antenna was at vertical and horizontal polarity, and only the worse test condition (horizontal) was recorded in this test report.
Note 2: Restricted Frequency Bands were performed in X, Y, Z axis direction, and only the worst axis (X axis) test condition was recorded in this test report.
Note 3: All test modes and bandwidth were considered and evaluated respectively by performing full test, only the worst data were recorded for each bandwidth.

802.11be (EHT160) Mode

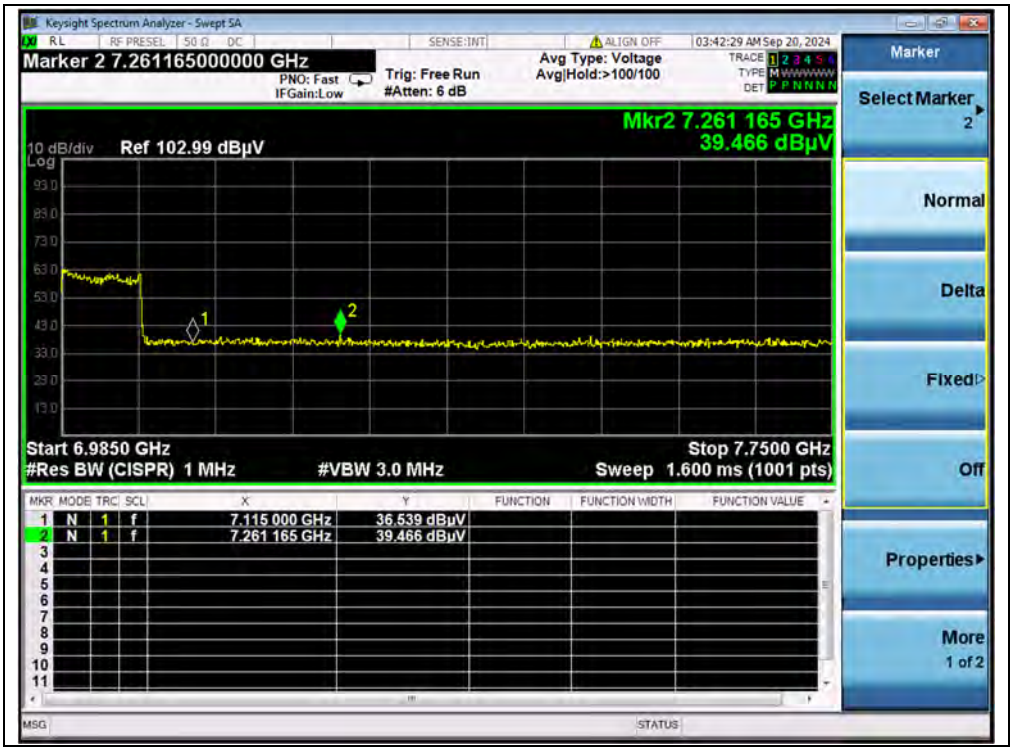
Ch.	Frequency (MHz)	Detector	Receiver Reading U_R (dBμV)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dBμV/m)	Limit (dBμV/m)	Verdict
		PK/ AV						
15	5576.13	PK	41.23	-19.57	32.20	53.86	88.63	PASS
15	5748.25	AV	28.29	-19.57	32.20	40.92	68.26	PASS
207	7261.17	PK	39.47	-17.84	32.20	53.83	88.63	PASS
207	7143.36	AV	27.17	-17.84	32.20	41.53	68.26	PASS



(PEAK, Channel 15, 802.11be (EHT160))



(AVERAGE, Channel 15, 802.11be (EHT160))



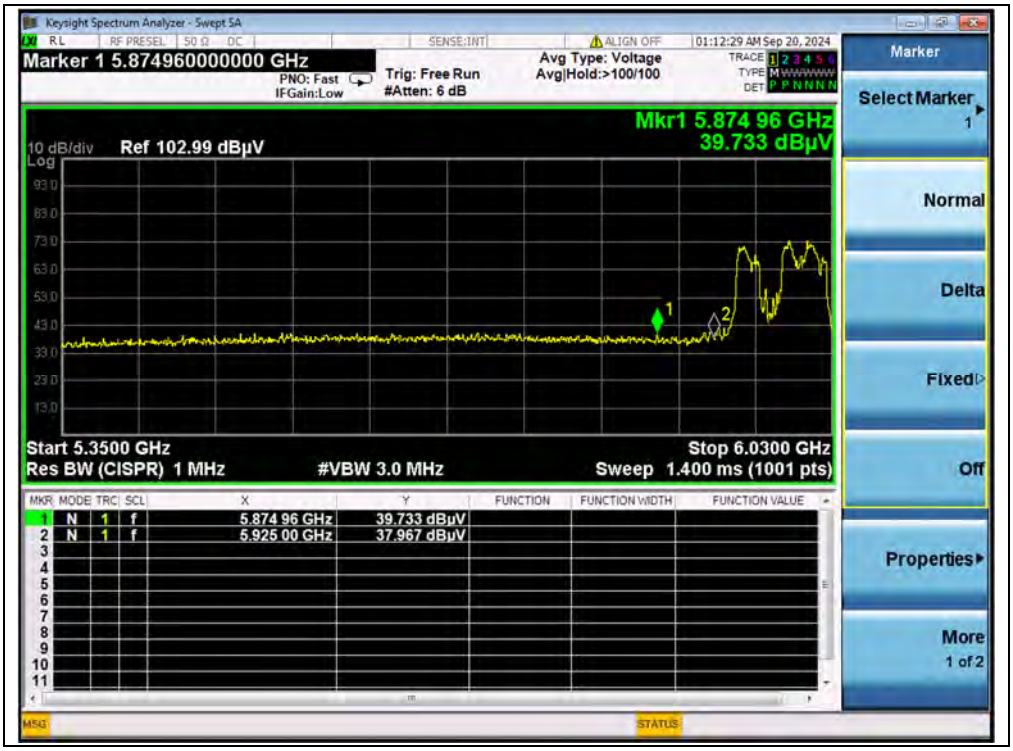
(PEAK, Channel 207, 802.11be (EHT160))



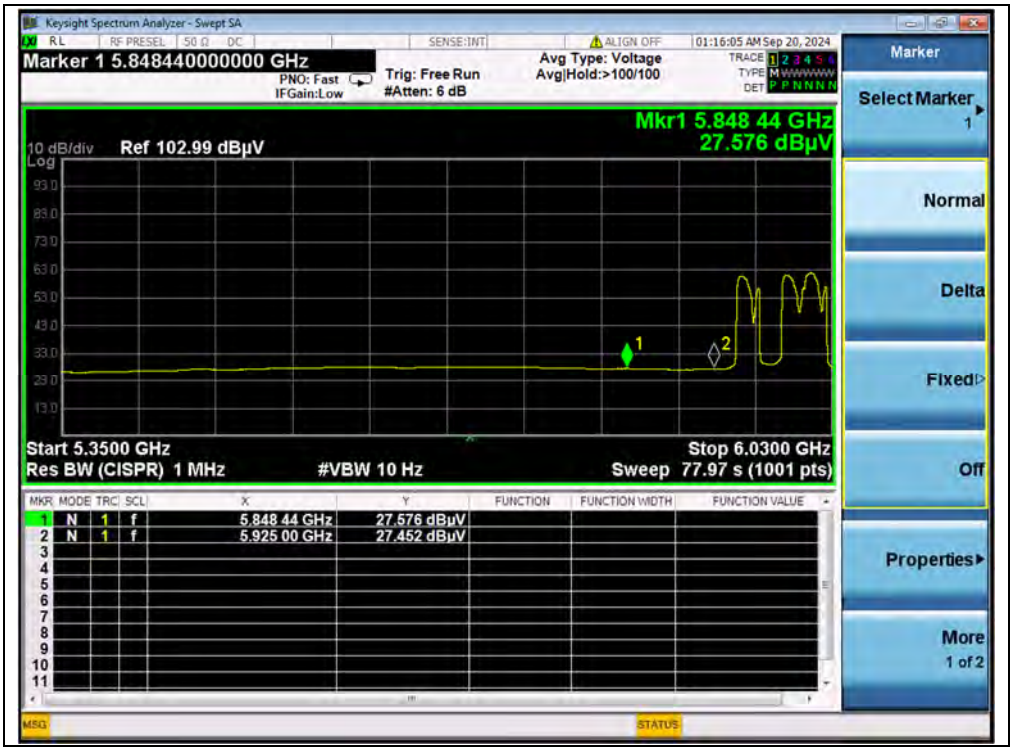
(AVERAGE, Channel 207, 802.11be (EHT160))

11BE80_Puncturing 20M

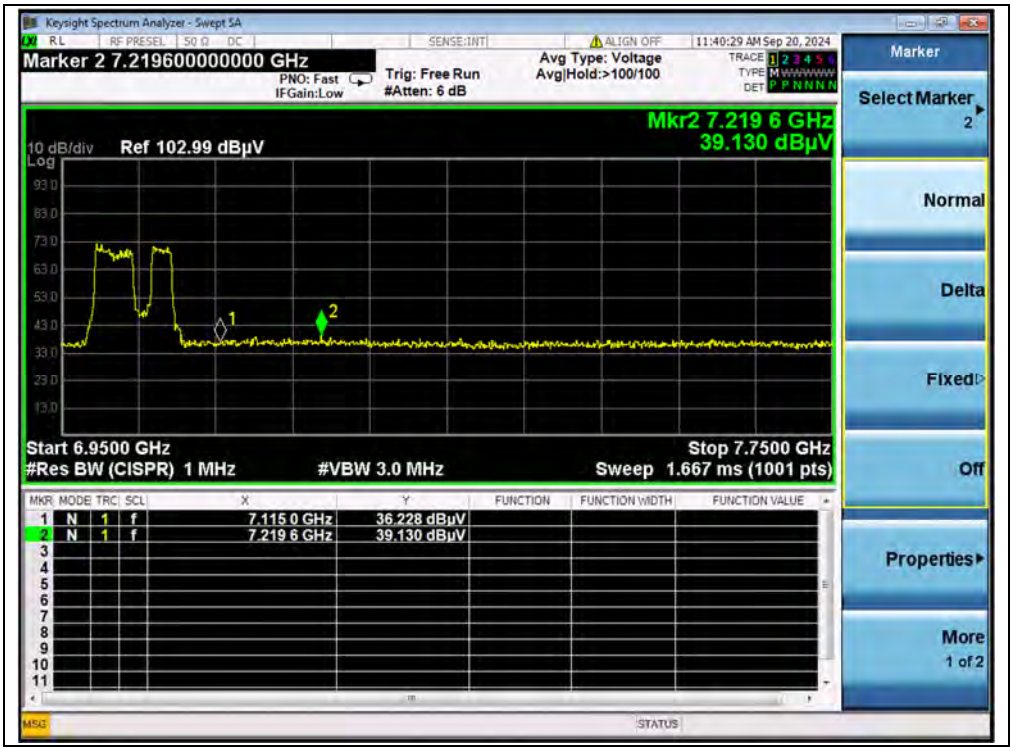
Ch.	Frequency (MHz)	Detector	Receiver Reading U_R (dBμV)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dBμV/m)	Limit (dBμV/m)	Verdict
		PK/ AV						
7	5774.96	PK	39.73	-19.57	32.20	52.36	88.63	PASS
7	5848.44	AV	27.58	-19.57	32.20	40.21	68.26	PASS
215	7219.60	PK	39.13	-17.84	32.20	53.49	88.63	PASS
215	7144.40	AV	26.93	-17.84	32.20	41.29	68.26	PASS



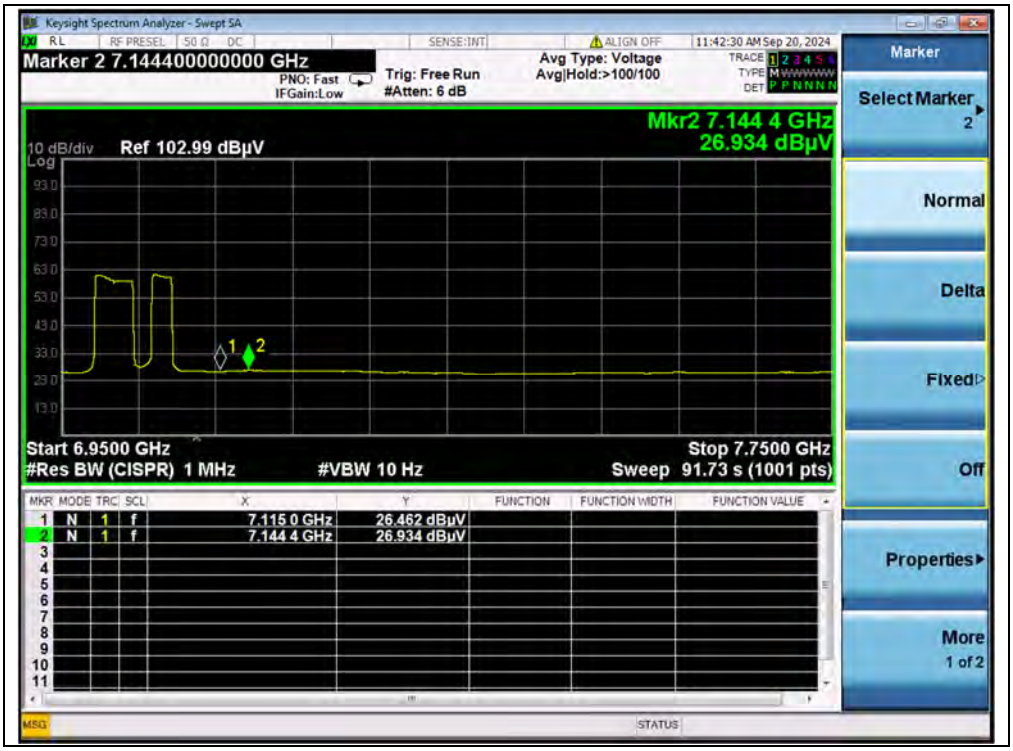
(PEAK, 11BE80-5985_Puncturing 20M@2)



(AVERAGE, 11BE80-5985_Puncturing 20M@2)



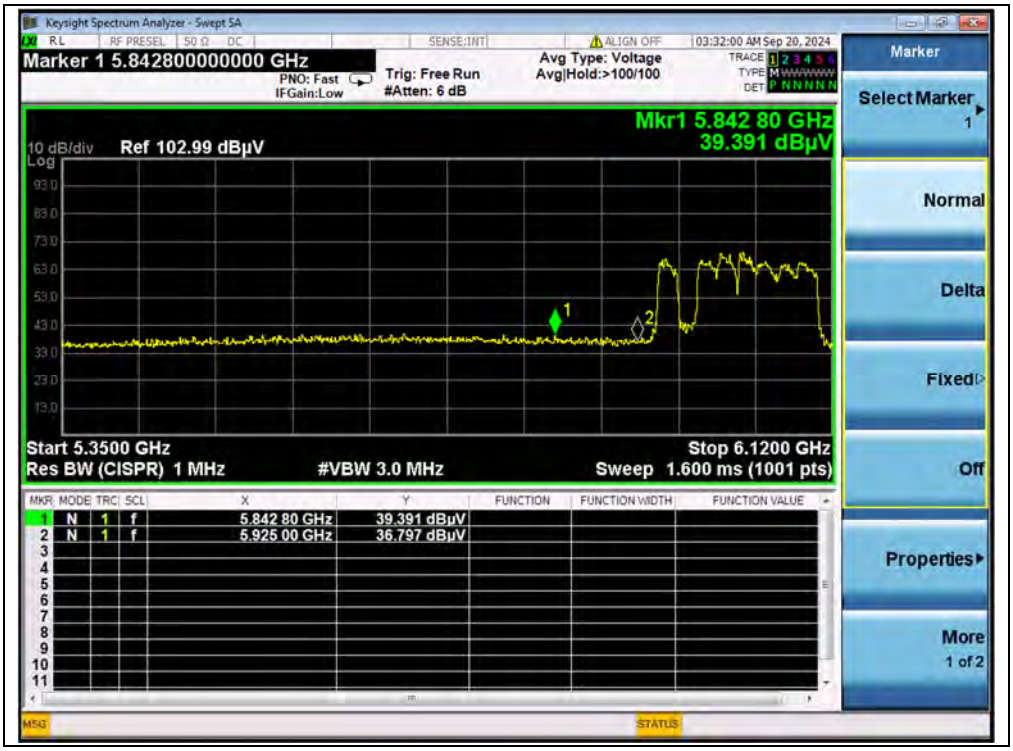
(PEAK, 11BE80-7025_Puncturing 20M@4)



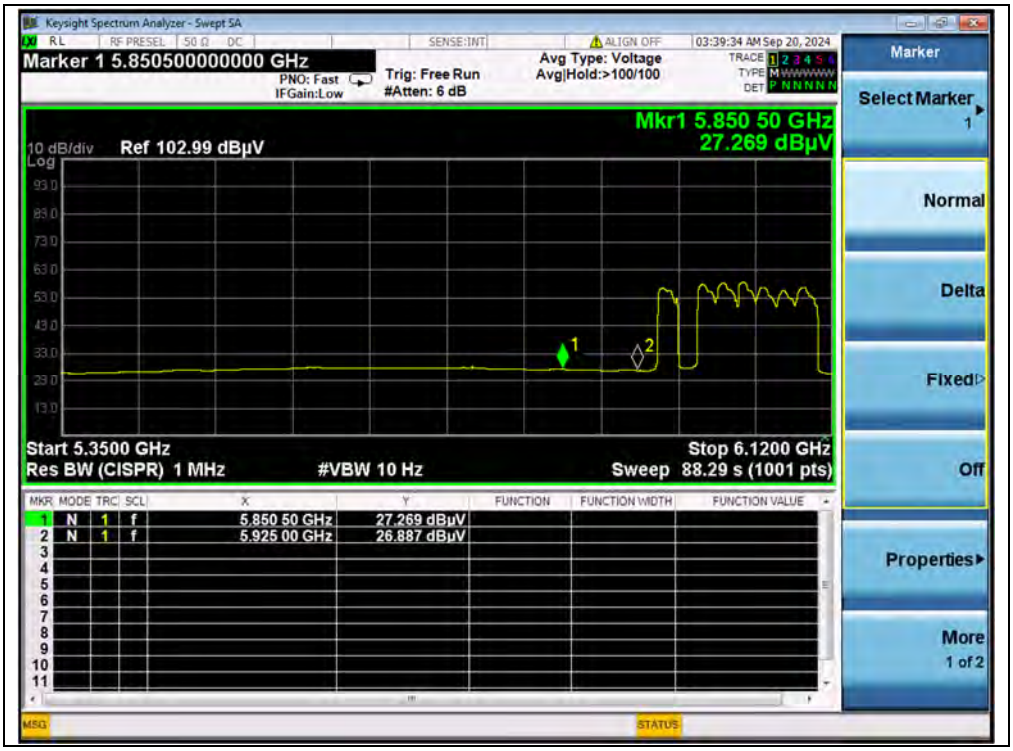
(AVERAGE, 11BE80-7025_Puncturing 20M@4)

11BE160_Puncturing 20M

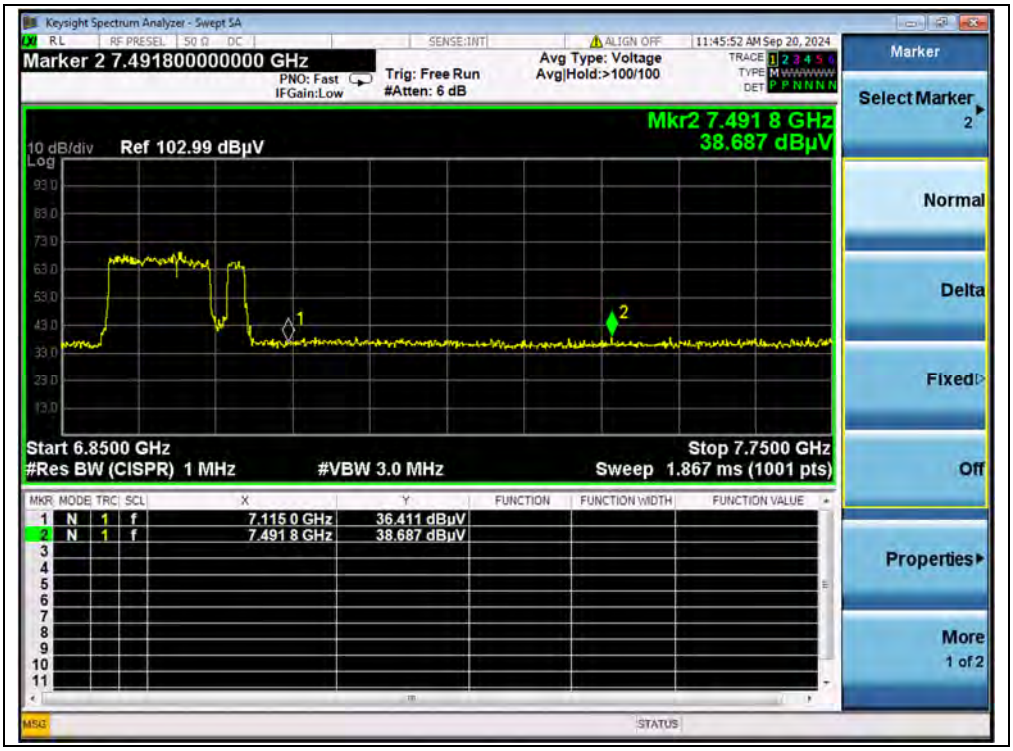
Ch.	Frequency (MHz)	Detector	Receiver Reading U_R (dBμV)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dBμV/m)	Limit (dBμV/m)	Verdict
		PK/ AV						
15	5742.80	PK	39.39	-19.57	32.20	52.02	88.63	PASS
15	5850.50	AV	27.27	-19.57	32.20	39.90	68.26	PASS
207	7491.80	PK	38.69	-17.84	32.20	53.05	88.63	PASS
207	7146.20	AV	26.91	-17.84	32.20	41.27	68.26	PASS



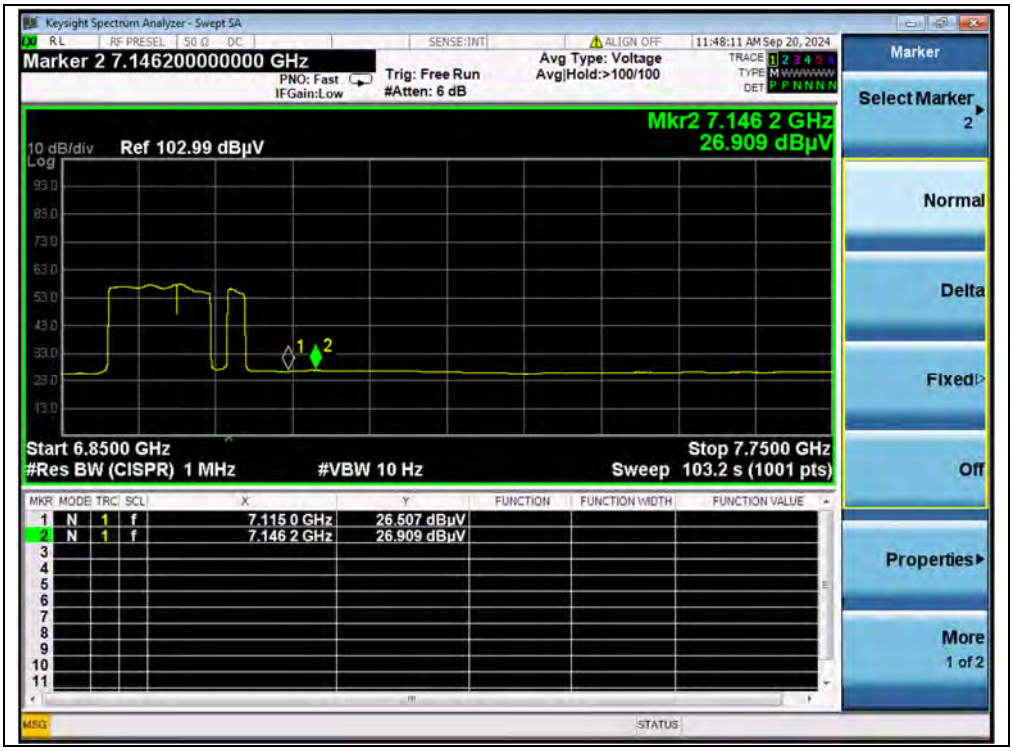
(PEAK, 11BE160-6025_Puncturing 20M@2)



(AVERAGE, 11BE160-6025_Puncturing 20M@2)



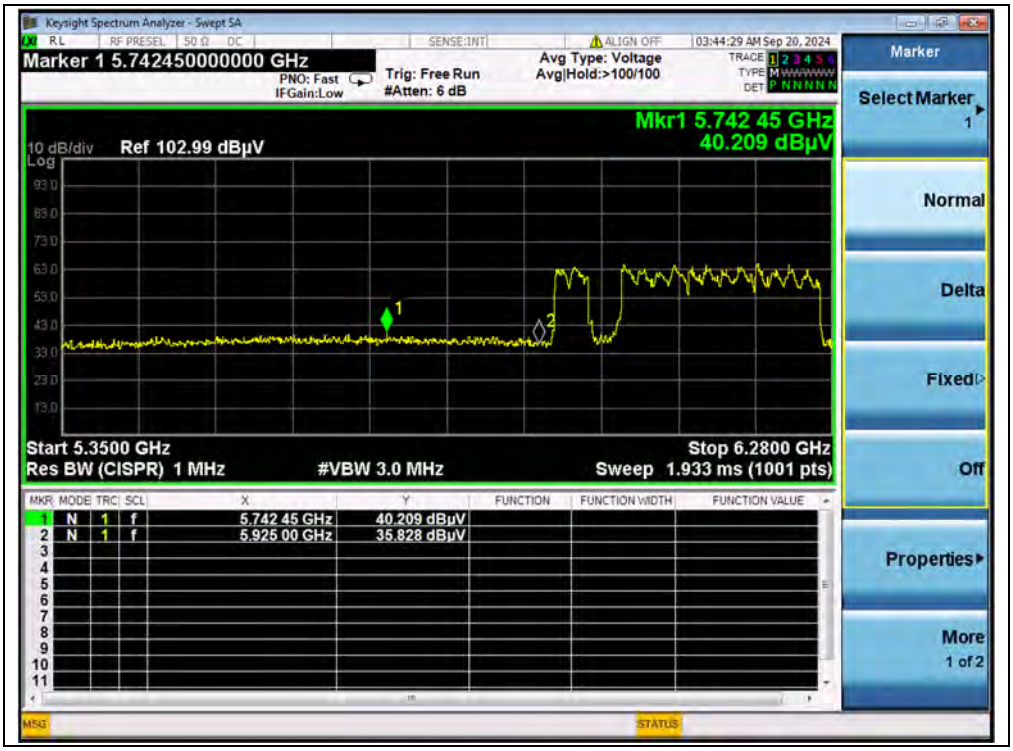
(PEAK, 11BE160-6985_Puncturing 20M@7)



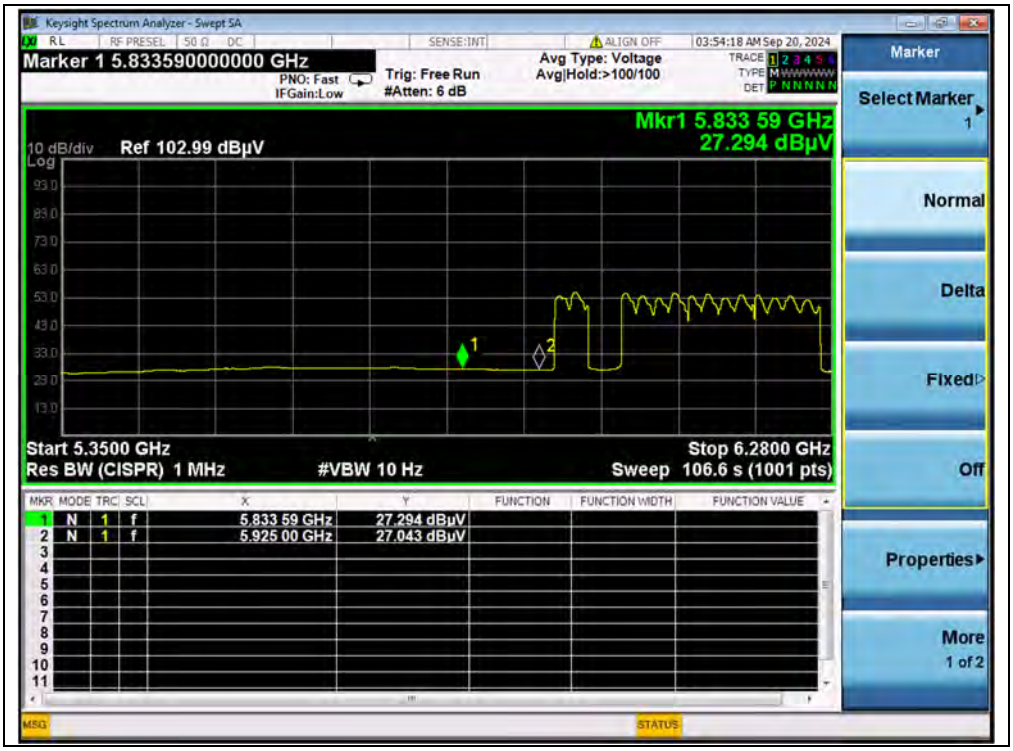
(AVERAGE, 11BE160-6985_Puncturing 20M@7)

11BE320_Puncturing 40M

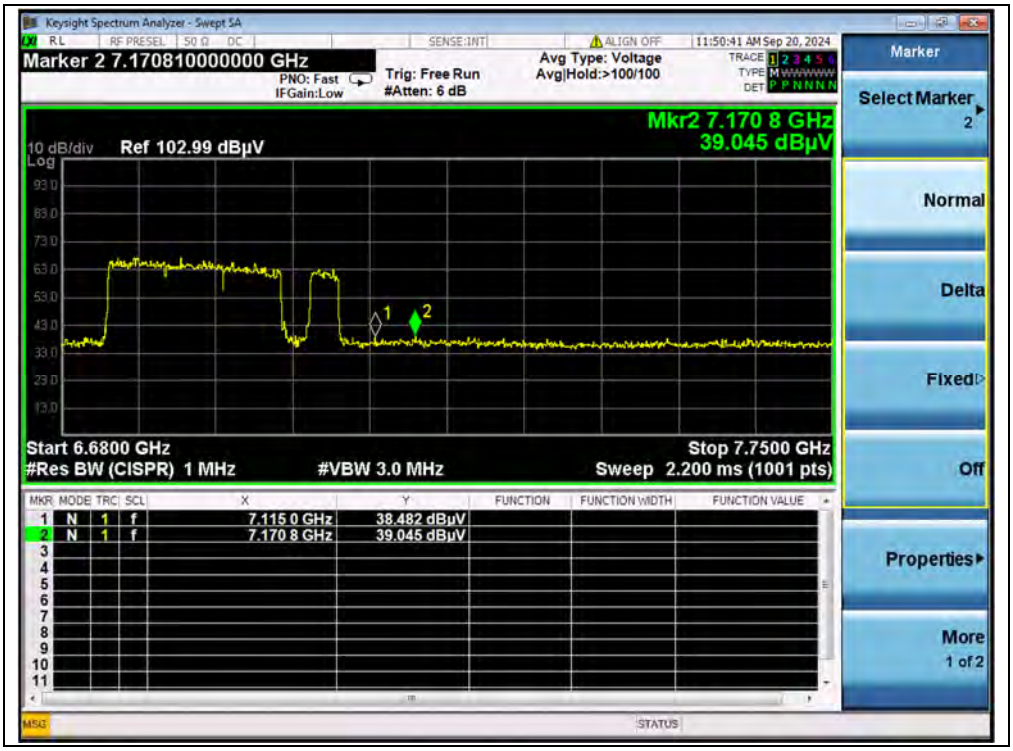
Ch.	Frequency (MHz)	Detector	Receiver Reading U_R (dBμV)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dBμV/m)	Limit (dBμV/m)	Verdict
		PK/ AV						
31	5742.45	PK	40.21	-19.57	32.20	52.84	88.63	PASS
31	5833.59	AV	27.29	-19.57	32.20	39.92	68.26	PASS
191	7170.80	PK	39.05	-17.84	32.20	53.41	88.63	PASS
191	7140.90	AV	26.97	-17.84	32.20	41.33	68.26	PASS



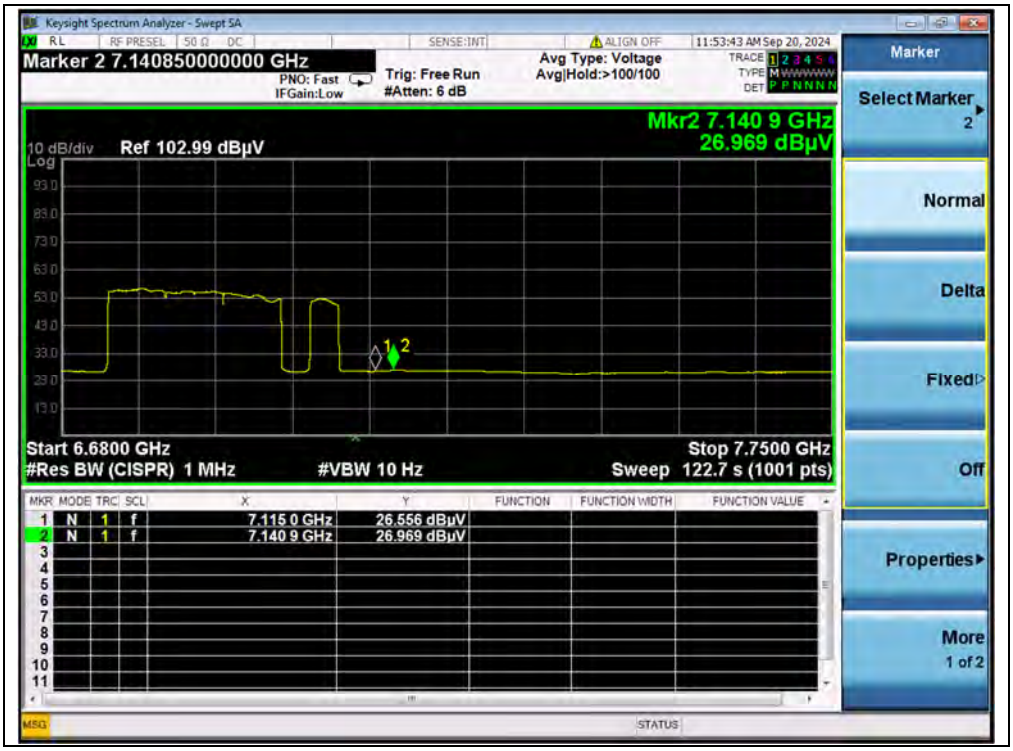
(PEAK, 11BE320-6105_Puncturing 40M@2)



(AVERAGE, 11BE320-6105_Puncturing 40M@2)



(PEAK, 11BE320-6905_Puncturing 40M@7)



(AVERAGE, 11BE320-6905_Puncturing 40M@7)

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 a 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 (X 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 40GHz, was pre-scanned and the result which was 20dB lower than the limit was not recorded.

Note 4: All test modes, bandwidth and channel were considered and evaluated respectively by performing full test, only the worst data were recorded for each bandwidth.

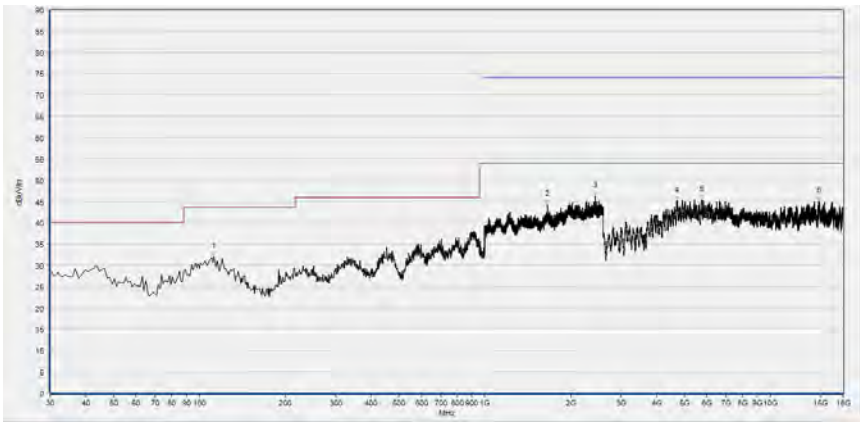
Field strength of fundamental:

Frequency (MHz)	Reading_Peak (dBμV/m)	Antenna Factor (dB)	Path Loss (dB)	Final_Peak (dBμV/m)	Antenna Polarity
6181.00	68.59	32.20	-19.57	81.22	Horizontal

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

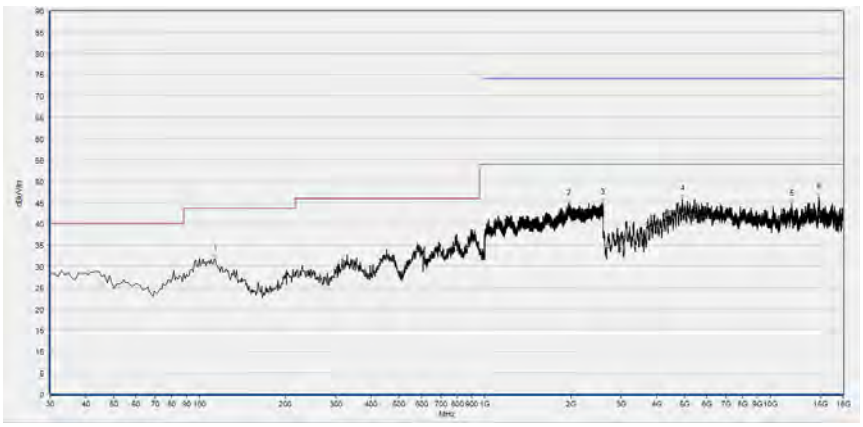
802.11ax (HEW20) Mode

Plot for Channel 45



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	31.97	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1660.800	44.27	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2431.467	46.18	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4709.800	45.07	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5741.600	45.34	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
14809.120	45.11	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

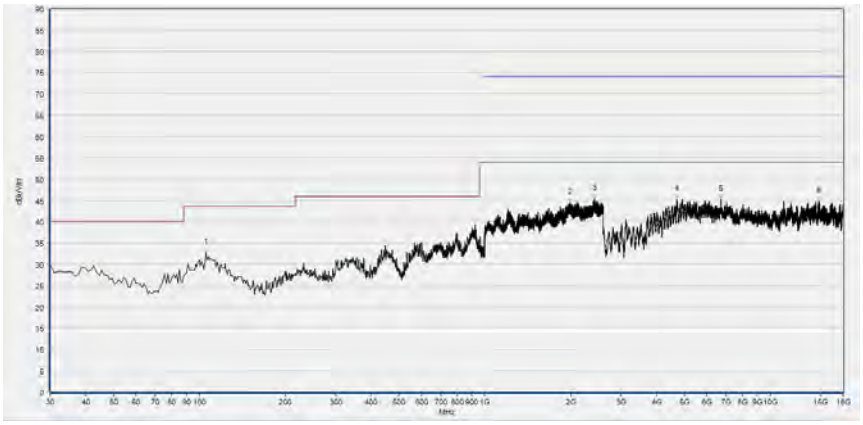
(Antenna Horizontal, 30MHz to 18GHz)



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
113.420	31.62	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1971.200	44.80	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2574.400	44.95	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4928.480	45.78	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
11861.560	44.56	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
14827.600	46.20	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

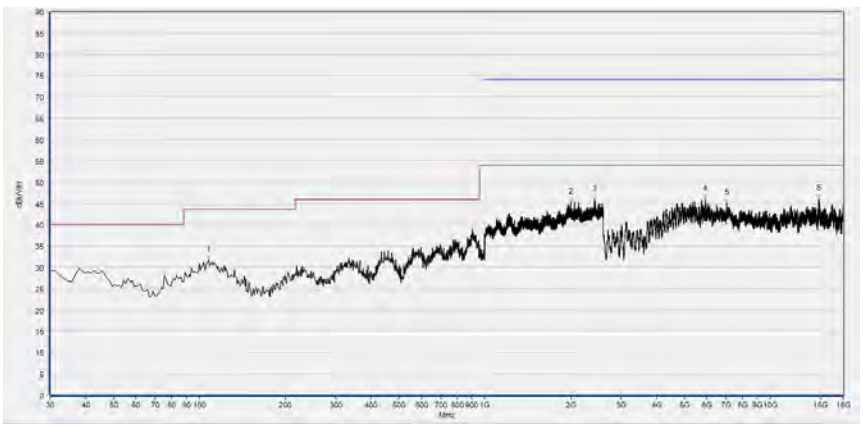
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 105



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
105.660	32.63	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1987.733	44.44	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2426.667	45.39	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4712.880	45.23	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
6714.880	45.19	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
14756.760	44.82	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

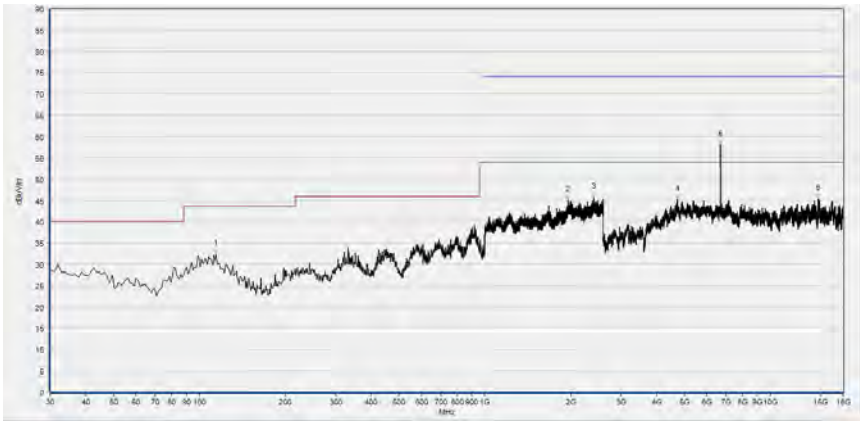
(Antenna Horizontal, 30MHz to 18GHz)



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
107.600	31.68	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1997.333	45.17	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2428.267	45.95	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5923.320	45.85	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
7044.440	45.06	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
14818.360	46.08	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

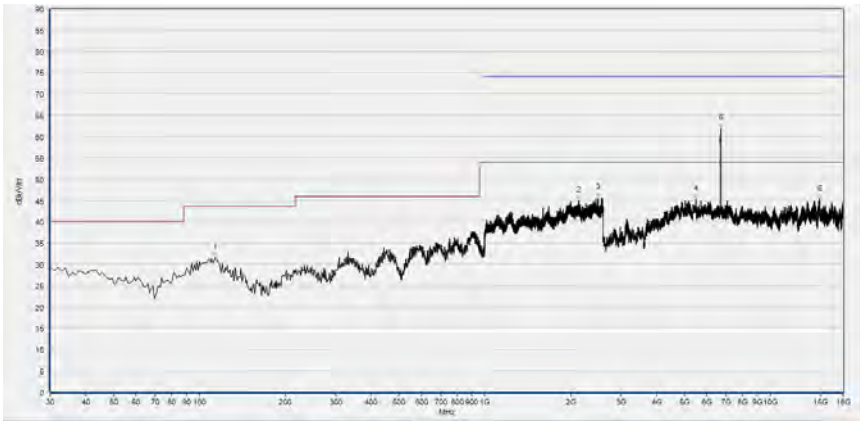
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 149



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	32.33	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1957.333	45.08	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2409.067	45.68	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4734.440	45.17	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
6696.400	58.03	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
14735.200	45.46	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

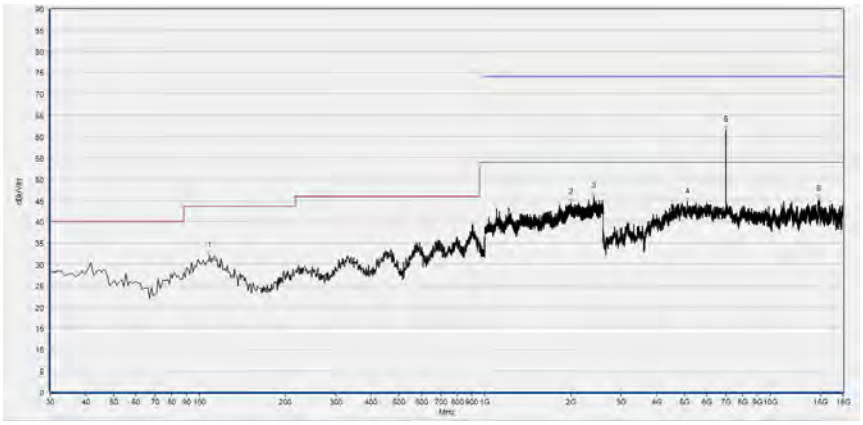
(Antenna Horizontal, 30MHz to 18GHz)



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
113.420	31.53	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2138.667	44.84	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2486.400	45.62	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5482.880	45.17	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
6699.480	61.79	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
14864.560	45.18	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

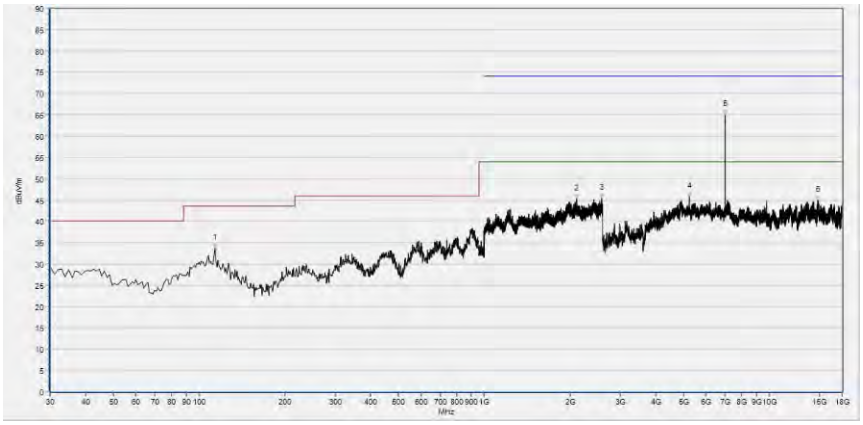
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 209



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	32.00	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2004.800	44.33	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2403.200	45.96	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5134.840	44.57	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
6992.080	61.43	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
14790.640	45.23	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

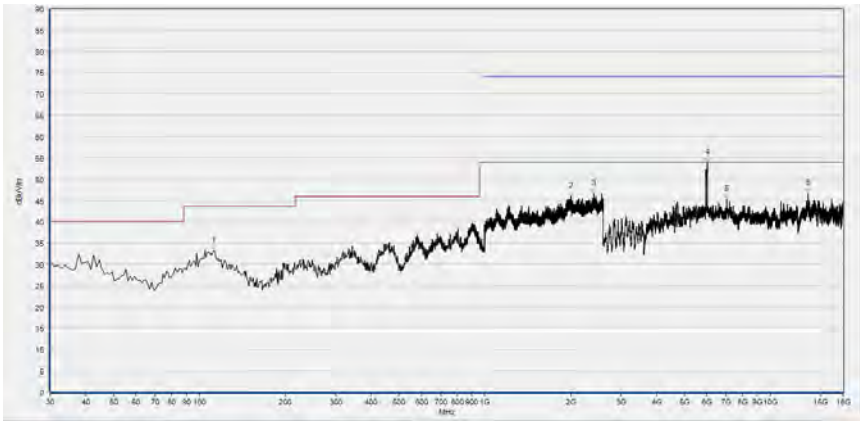
(Antenna Horizontal, 30MHz to 18GHz)



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
113.420	33.72	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2104.000	45.26	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2579.733	45.46	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5230.320	45.81	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
6992.080	65.10	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
14827.600	44.86	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

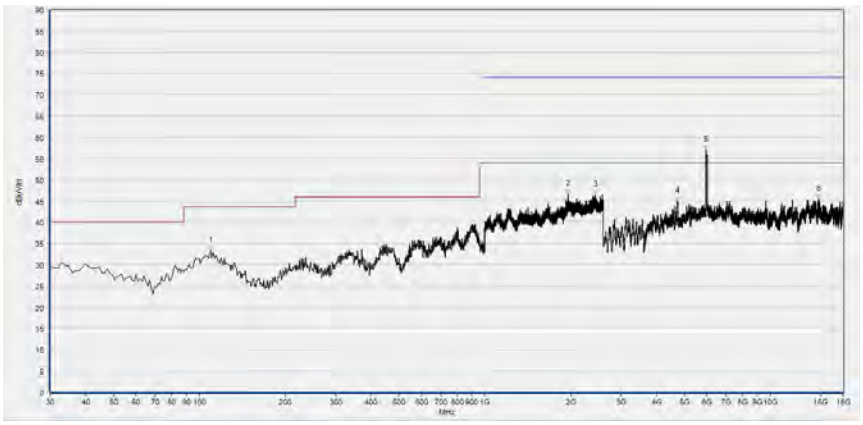
(Antenna Vertical, 30MHz to 18GHz)

11BE80-5985_Puncturing 20M@2



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	33.25	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1998.400	45.84	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2404.267	46.59	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
6015.720	53.77	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
7035.200	45.29	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
13549.400	46.55	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

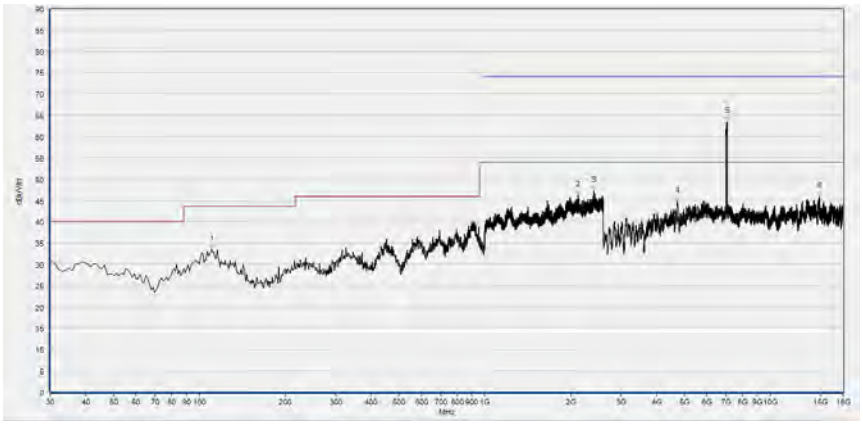
(Antenna Horizontal, 30MHz to 18GHz)



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
109.540	33.41	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1957.333	46.52	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2438.933	46.42	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4737.520	44.96	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5960.280	56.92	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
14784.480	45.36	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

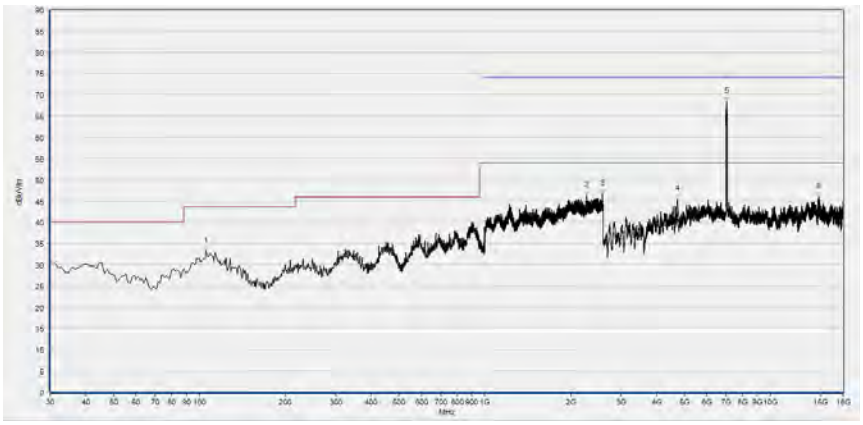
(Antenna Vertical, 30MHz to 18GHz)

11BE80-7025_Puncturing 20M@3



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	33.46	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2122.133	46.18	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2413.867	47.23	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4728.280	44.68	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
7062.920	63.49	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
14886.120	45.84	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

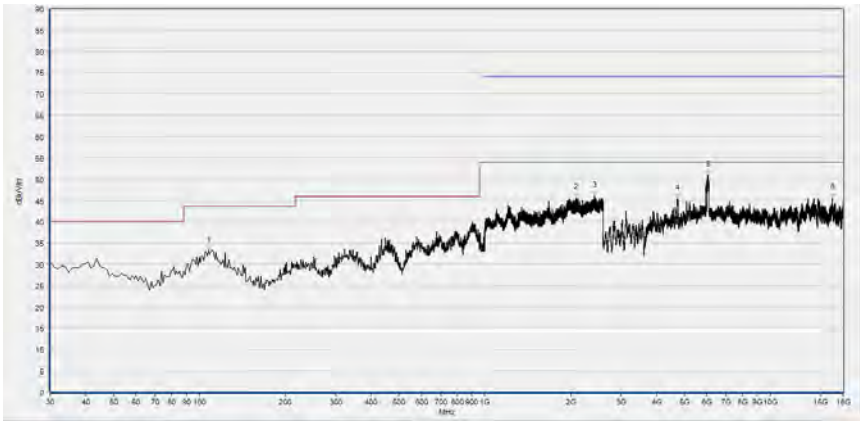
(Antenna Horizontal, 30MHz to 18GHz)



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
105.660	33.17	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2279.467	46.19	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2585.067	46.56	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4734.440	45.38	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
7050.600	68.31	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
14796.800	45.92	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

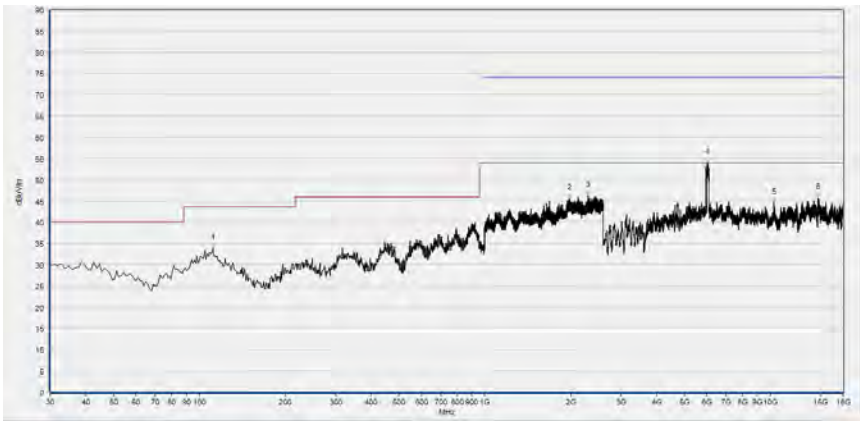
(Antenna Vertical, 30MHz to 18GHz)

11BE160-6025_Puncturing 20M@2



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	33.24	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2086.400	45.58	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2420.800	46.17	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4734.440	45.35	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
6040.360	50.93	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
16463.080	45.51	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

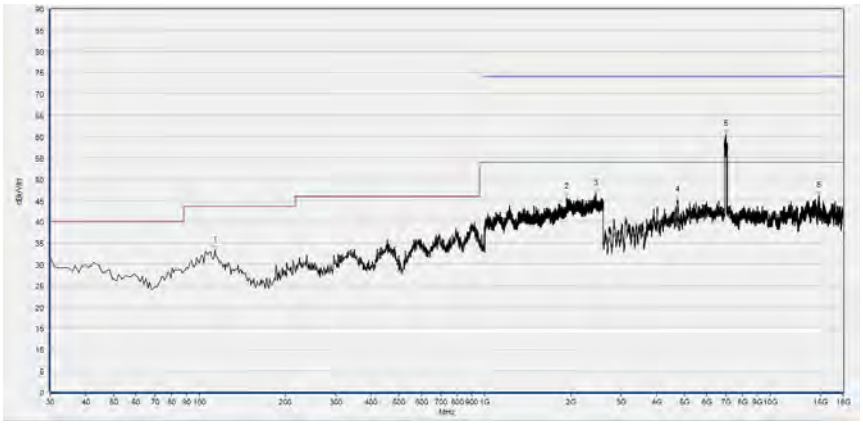
(Antenna Horizontal, 30MHz to 18GHz)



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
111.480	33.85	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1980.267	45.56	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2296.000	46.28	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
6009.560	53.95	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
10300.000	44.53	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
14729.040	45.79	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

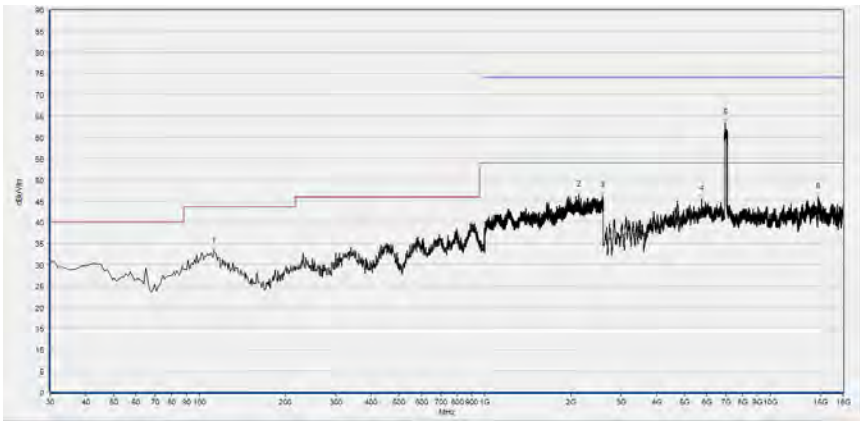
(Antenna Vertical, 30MHz to 18GHz)

11BE160-6985_Puncturing 20M@7



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	33.34	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1939.200	45.73	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2446.400	46.51	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4734.440	45.03	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
6982.840	60.57	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
14775.240	46.07	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

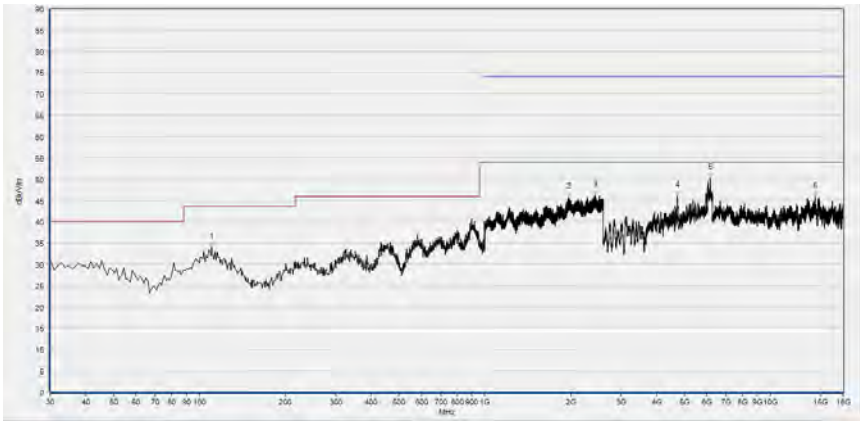
(Antenna Horizontal, 30MHz to 18GHz)



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
112.450	33.23	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2138.667	46.44	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2579.733	46.28	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5741.600	45.49	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
6964.360	63.30	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
14729.040	45.86	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

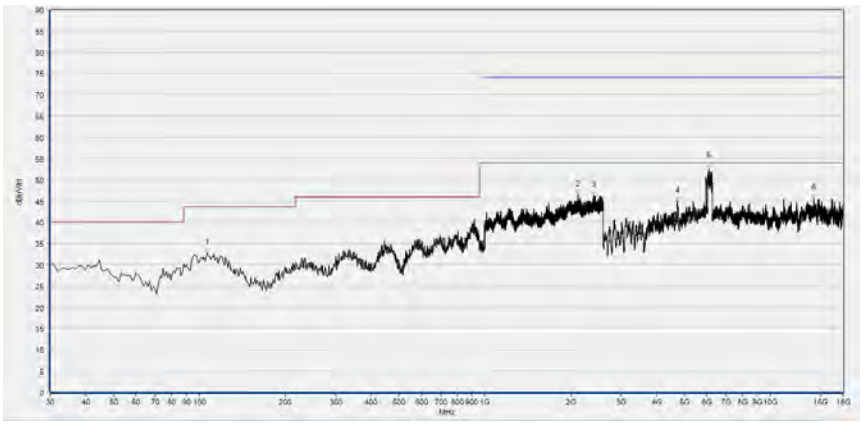
(Antenna Vertical, 30MHz to 18GHz)

11BE320-6105_Puncturing 40M@2



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	34.08	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1963.733	45.77	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2429.867	46.21	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4734.440	46.02	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
6172.800	50.29	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
14371.760	45.88	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

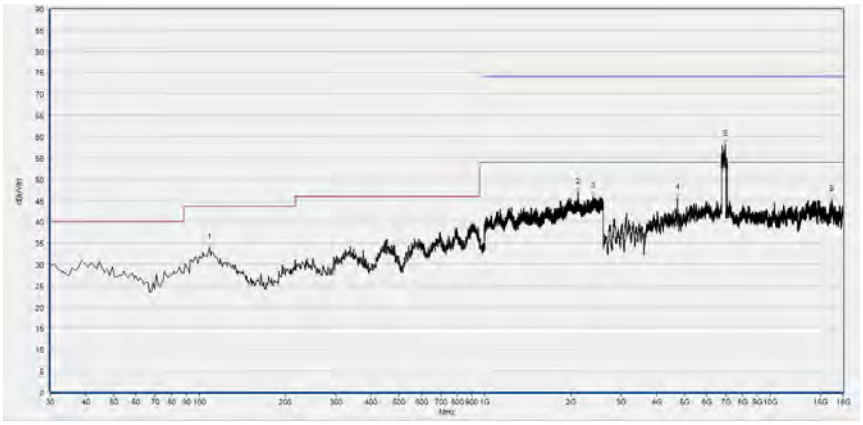
(Antenna Horizontal, 30MHz to 18GHz)



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
106.630	32.64	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2121.067	46.42	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2408.000	46.24	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4734.440	44.91	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
6089.640	52.38	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
14190.040	45.62	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

11BE320-6905_Puncturing 40M@7



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	33.86	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2121.600	46.97	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2395.200	45.97	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4728.280	45.64	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
6964.360	58.17	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
16460.000	45.20	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	33.09	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1980.800	46.70	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2412.800	46.06	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5208.760	44.99	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
6878.120	61.40	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
14775.240	45.74	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

Annex B Test Data and Result for 802.11a

B.1.Duty Cycle of Test Signal

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a SISO	5955	Ant12	100	0	0
NVNT	a SISO	5955	Ant13	100	0	0
NVNT	a SISO	6175	Ant12	100	0	0
NVNT	a SISO	6175	Ant13	100	0	0
NVNT	a SISO	6415	Ant12	100	0	0
NVNT	a SISO	6415	Ant13	100	0	0
NVNT	a SISO	6435	Ant12	100	0	0
NVNT	a SISO	6435	Ant13	100	0	0
NVNT	a SISO	6475	Ant12	100	0	0
NVNT	a SISO	6475	Ant13	100	0	0
NVNT	a SISO	6515	Ant12	100	0	0
NVNT	a SISO	6515	Ant13	100	0	0
NVNT	a SISO	6535	Ant12	100	0	0
NVNT	a SISO	6535	Ant13	100	0	0
NVNT	a SISO	6695	Ant12	100	0	0
NVNT	a SISO	6695	Ant13	100	0	0
NVNT	a SISO	6855	Ant12	100	0	0
NVNT	a SISO	6855	Ant13	100	0	0
NVNT	a SISO	6875	Ant12	100	0	0
NVNT	a SISO	6875	Ant13	100	0	0
NVNT	a SISO	6995	Ant12	100	0	0
NVNT	a SISO	6995	Ant13	100	0	0
NVNT	a SISO	7115	Ant12	98.11	0.08	0.48
NVNT	a SISO	7115	Ant13	98.11	0.08	0.48

B.2.Conducted Output Power and E.I.R.P.

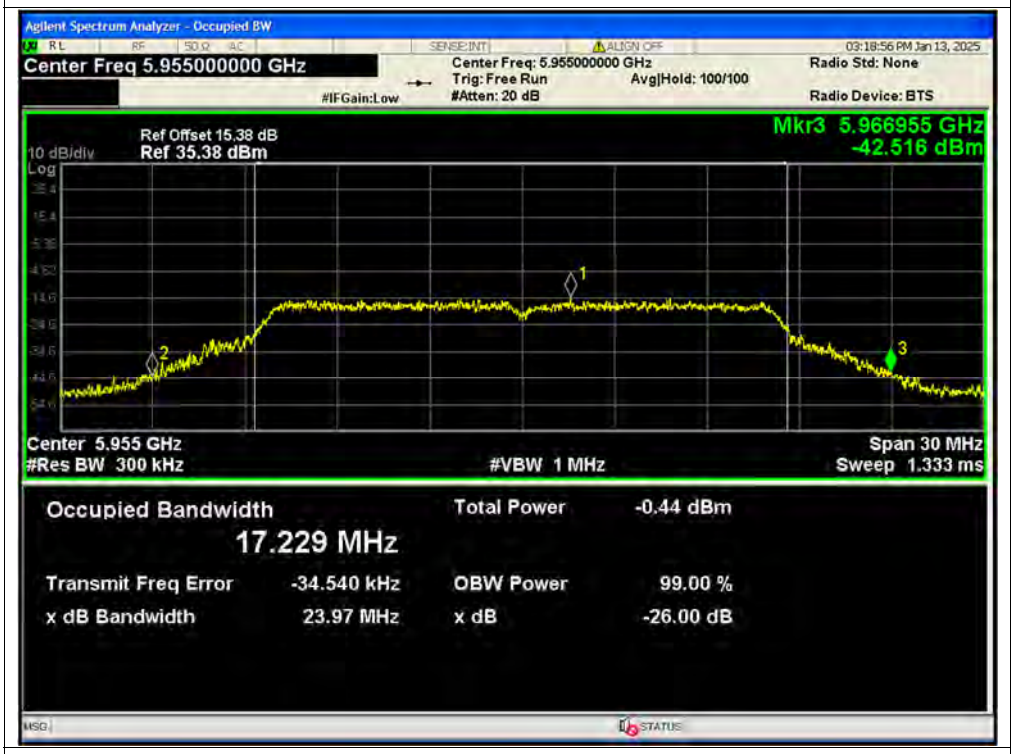
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Gain (dBi)	eirp Power	Limit (dBm)	Verdict
NVNT	a SISO	5955	Ant12	-5.76	0	-5.76	-5	-10.76	24	Pass
NVNT	a SISO	5955	Ant13	-4.82	0	-4.82	-5	-9.82	24	Pass
NVNT	a SISO	6175	Ant12	-5.97	0	-5.97	-5	-10.97	24	Pass
NVNT	a SISO	6175	Ant13	-4.85	0	-4.85	-5	-9.85	24	Pass
NVNT	a SISO	6415	Ant12	-6.54	0	-6.54	-5	-11.54	24	Pass
NVNT	a SISO	6415	Ant13	-4.65	0	-4.65	-5	-9.65	24	Pass
NVNT	a SISO	6435	Ant12	3.64	0	3.64	-5	-1.36	24	Pass
NVNT	a SISO	6435	Ant13	4.15	0	4.15	-5	-0.85	24	Pass
NVNT	a SISO	6475	Ant12	3.58	0	3.58	-5	-1.42	24	Pass
NVNT	a SISO	6475	Ant13	4.19	0	4.19	-5	-0.81	24	Pass
NVNT	a SISO	6515	Ant12	3.32	0	3.32	-5	-1.68	24	Pass
NVNT	a SISO	6515	Ant13	4.23	0	4.23	-5	-0.77	24	Pass
NVNT	a SISO	6535	Ant12	-6.73	0	-6.73	-5	-11.73	24	Pass
NVNT	a SISO	6535	Ant13	-4.58	0	-4.58	-5	-9.58	24	Pass
NVNT	a SISO	6695	Ant12	-6.58	0	-6.58	-5	-11.58	24	Pass
NVNT	a SISO	6695	Ant13	-4.41	0	-4.41	-5	-9.41	24	Pass
NVNT	a SISO	6855	Ant12	-7.15	0	-7.15	-5	-12.15	24	Pass
NVNT	a SISO	6855	Ant13	-5.38	0	-5.38	-5	-10.38	24	Pass
NVNT	a SISO	6875	Ant12	0.64	0	0.64	-5	-4.36	24	Pass
NVNT	a SISO	6875	Ant13	3.71	0	3.71	-5	-1.29	24	Pass
NVNT	a SISO	6995	Ant12	1.04	0	1.04	-5	-3.96	24	Pass
NVNT	a SISO	6995	Ant13	3.14	0	3.14	-5	-1.86	24	Pass
NVNT	a SISO	7115	Ant12	-16.83	0	-16.83	-5	-21.83	24	Pass
NVNT	a SISO	7115	Ant13	-9.64	0	-9.64	-5	-14.64	24	Pass

B.3.Occupied Bandwidth and Emission Bandwidth

a. Emission Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)
NVNT	a SISO	5955	Ant12	23.97
NVNT	a SISO	5955	Ant13	23.66
NVNT	a SISO	6175	Ant12	23.3
NVNT	a SISO	6175	Ant13	23.71
NVNT	a SISO	6415	Ant12	23.71
NVNT	a SISO	6415	Ant13	22.98
NVNT	a SISO	6435	Ant12	23.33
NVNT	a SISO	6435	Ant13	23.69
NVNT	a SISO	6475	Ant12	22.82
NVNT	a SISO	6475	Ant13	23.8
NVNT	a SISO	6515	Ant12	23.86
NVNT	a SISO	6515	Ant13	23.6
NVNT	a SISO	6535	Ant12	23.53
NVNT	a SISO	6535	Ant13	23.61
NVNT	a SISO	6695	Ant12	23.74
NVNT	a SISO	6695	Ant13	23.36
NVNT	a SISO	6855	Ant12	23.8
NVNT	a SISO	6855	Ant13	23.05
NVNT	a SISO	6875	Ant12	23.17
NVNT	a SISO	6875	Ant13	23.57
NVNT	a SISO	6995	Ant12	22.99
NVNT	a SISO	6995	Ant13	23.36
NVNT	a SISO	7115	Ant12	23.28
NVNT	a SISO	7115	Ant13	23.46

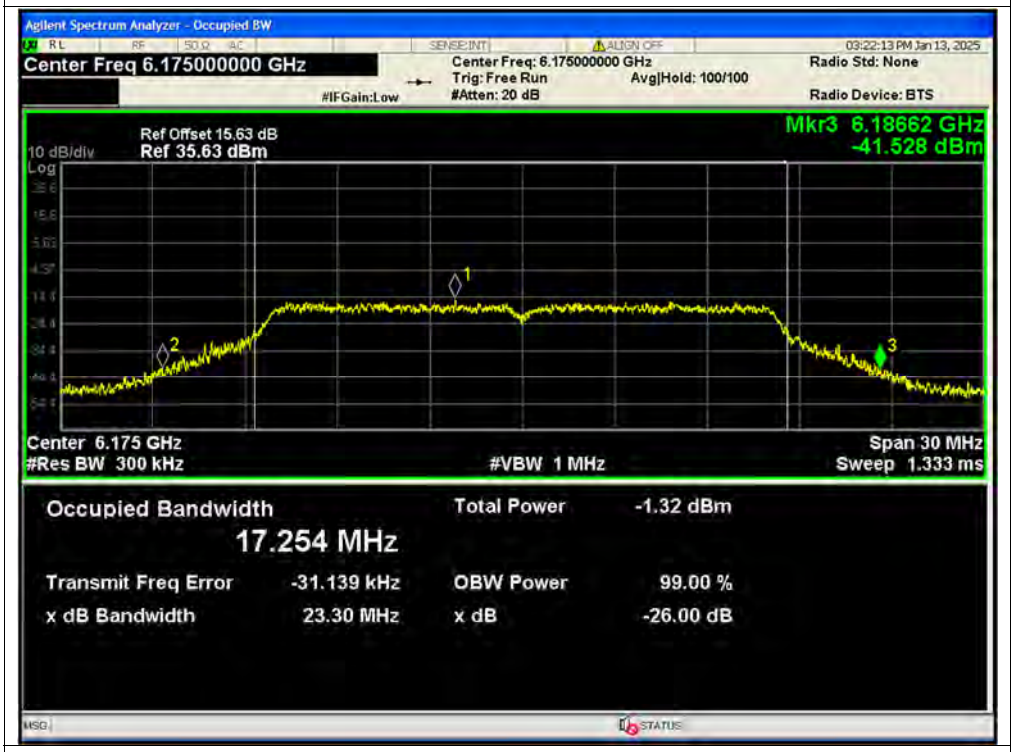
Test Graphs
-26dB Bandwidth NVNT a 5955MHz Ant12 SISO



-26dB Bandwidth NVNT a 5955MHz Ant13 SISO



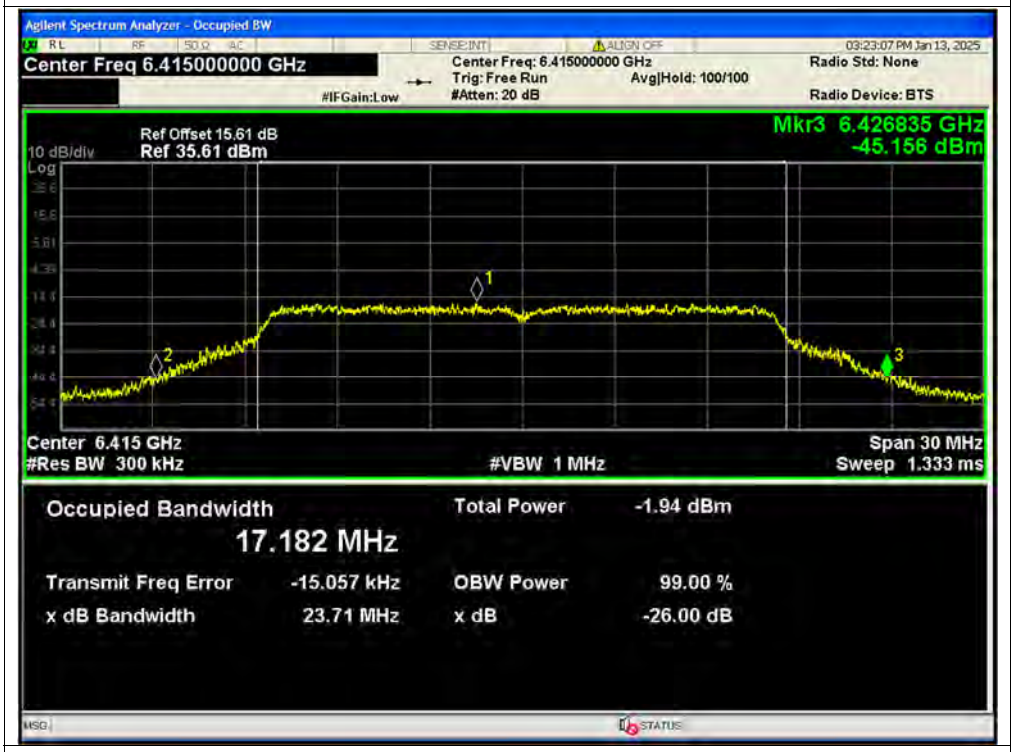
-26dB Bandwidth NVNT a 6175MHz Ant12 SISO



-26dB Bandwidth NVNT a 6175MHz Ant13 SISO



-26dB Bandwidth NVNT a 6415MHz Ant12 SISO



-26dB Bandwidth NVNT a 6415MHz Ant13 SISO



-26dB Bandwidth NVNT a 6435MHz Ant12 SISO



-26dB Bandwidth NVNT a 6435MHz Ant13 SISO



-26dB Bandwidth NVNT a 6475MHz Ant12 SISO



-26dB Bandwidth NVNT a 6475MHz Ant13 SISO



-26dB Bandwidth NVNT a 6515MHz Ant12 SISO



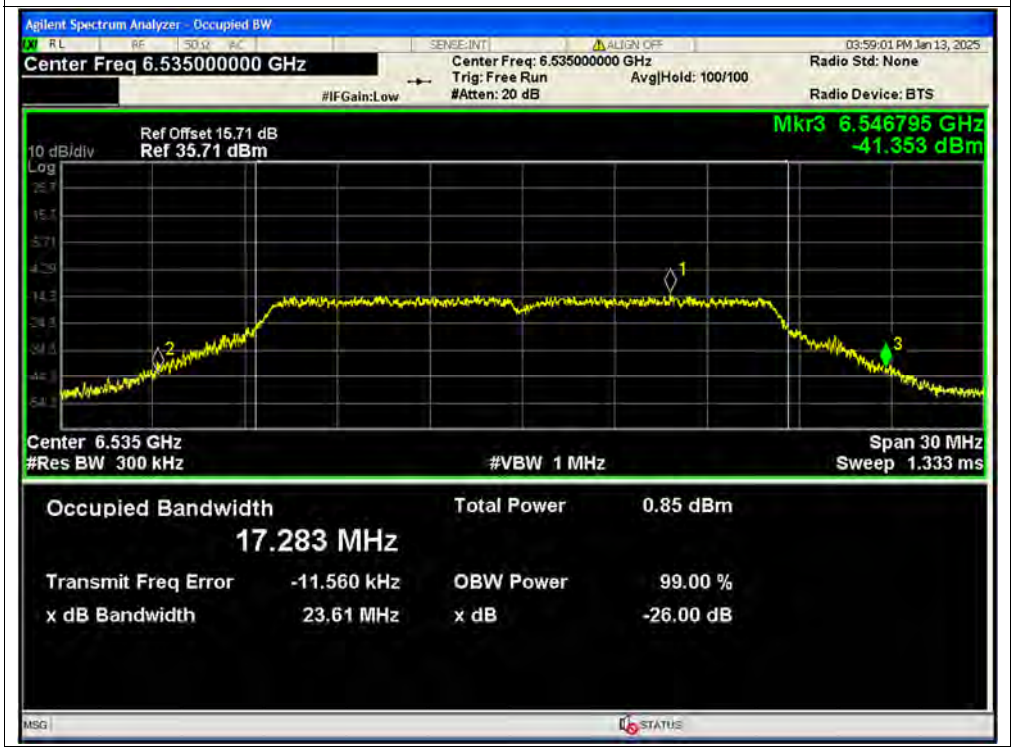
-26dB Bandwidth NVNT a 6515MHz Ant13 SISO



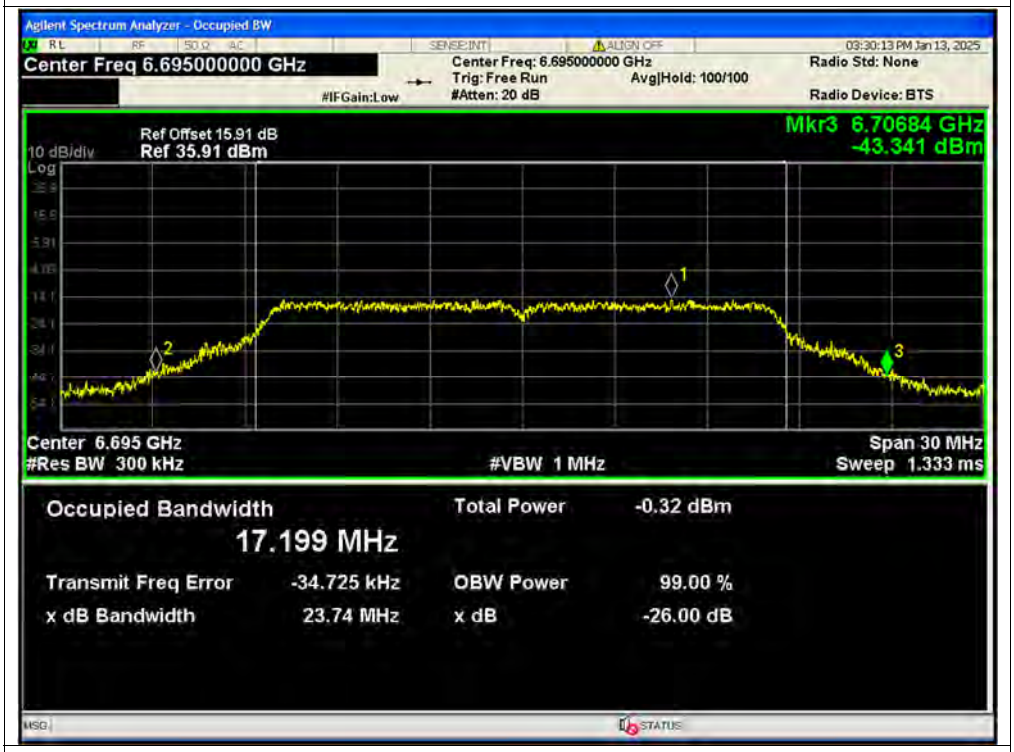
-26dB Bandwidth NVNT a 6535MHz Ant12 SISO



-26dB Bandwidth NVNT a 6535MHz Ant13 SISO



-26dB Bandwidth NVNT a 6695MHz Ant12 SISO



-26dB Bandwidth NVNT a 6695MHz Ant13 SISO



-26dB Bandwidth NVNT a 6855MHz Ant12 SISO



-26dB Bandwidth NVNT a 6855MHz Ant13 SISO



-26dB Bandwidth NVNT a 6875MHz Ant12 SISO



-26dB Bandwidth NVNT a 6875MHz Ant13 SISO



-26dB Bandwidth NVNT a 6995MHz Ant12 SISO



-26dB Bandwidth NVNT a 6995MHz Ant13 SISO



-26dB Bandwidth NVNT a 7115MHz Ant12 SISO



-26dB Bandwidth NVNT a 7115MHz Ant13 SISO



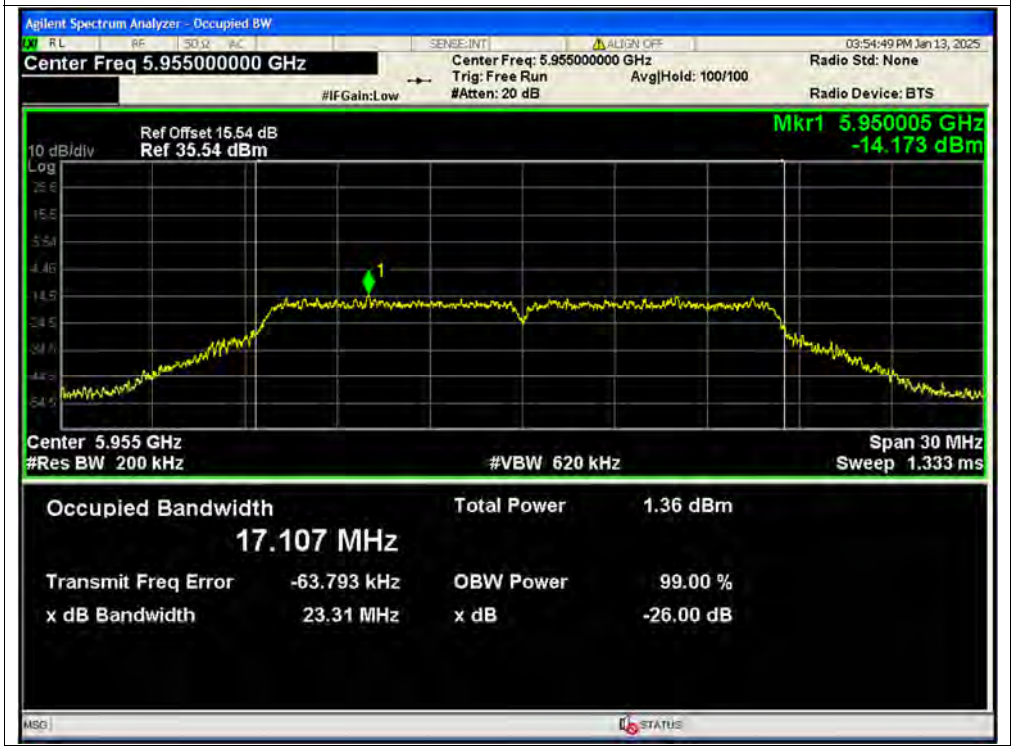
b. Occupied Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)	Limit (MHz)	Verdict
NVNT	a SISO	5955	Ant12	17.141	<=320	Pass
NVNT	a SISO	5955	Ant13	17.107	<=320	Pass
NVNT	a SISO	6175	Ant12	17.179	<=320	Pass
NVNT	a SISO	6175	Ant13	17.129	<=320	Pass
NVNT	a SISO	6415	Ant12	17.096	<=320	Pass
NVNT	a SISO	6415	Ant13	17.043	<=320	Pass
NVNT	a SISO	6435	Ant12	17.055	<=320	Pass
NVNT	a SISO	6435	Ant13	17.055	<=320	Pass
NVNT	a SISO	6475	Ant12	16.974	<=320	Pass
NVNT	a SISO	6475	Ant13	17.017	<=320	Pass
NVNT	a SISO	6515	Ant12	16.977	<=320	Pass
NVNT	a SISO	6515	Ant13	17.049	<=320	Pass
NVNT	a SISO	6535	Ant12	17.086	<=320	Pass
NVNT	a SISO	6535	Ant13	17.048	<=320	Pass
NVNT	a SISO	6695	Ant12	17.076	<=320	Pass
NVNT	a SISO	6695	Ant13	17.1	<=320	Pass
NVNT	a SISO	6855	Ant12	17.004	<=320	Pass
NVNT	a SISO	6855	Ant13	17.021	<=320	Pass
NVNT	a SISO	6875	Ant12	17.027	<=320	Pass
NVNT	a SISO	6875	Ant13	17.016	<=320	Pass
NVNT	a SISO	6995	Ant12	16.938	<=320	Pass
NVNT	a SISO	6995	Ant13	17.01	<=320	Pass
NVNT	a SISO	7115	Ant12	17.006	<=320	Pass
NVNT	a SISO	7115	Ant13	17.016	<=320	Pass

Test Graphs
OBW NVNT a 5955MHz Ant12 SISO



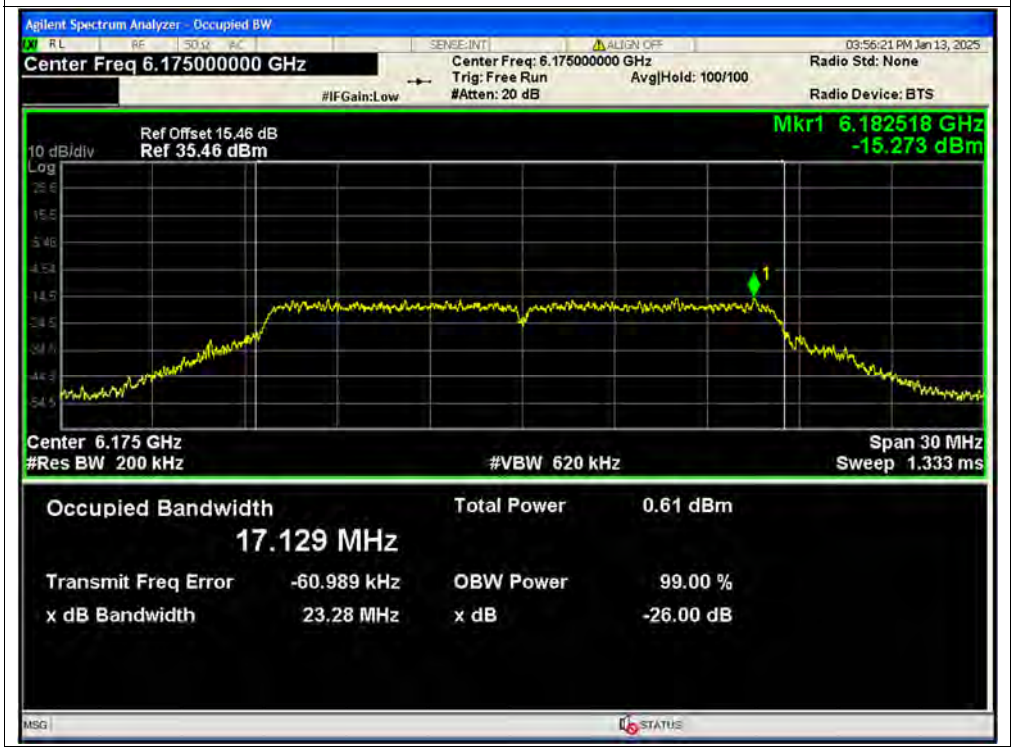
OBW NVNT a 5955MHz Ant13 SISO



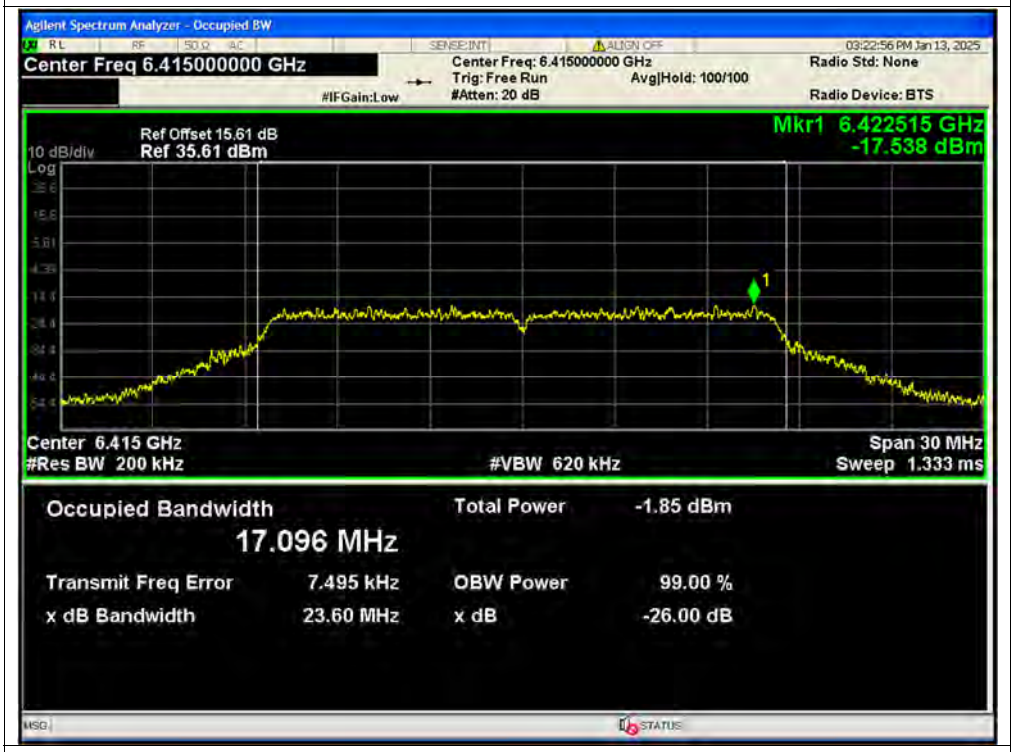
OBW NVNT a 6175MHz Ant12 SISO



OBW NVNT a 6175MHz Ant13 SISO



OBW NVNT a 6415MHz Ant12 SISO



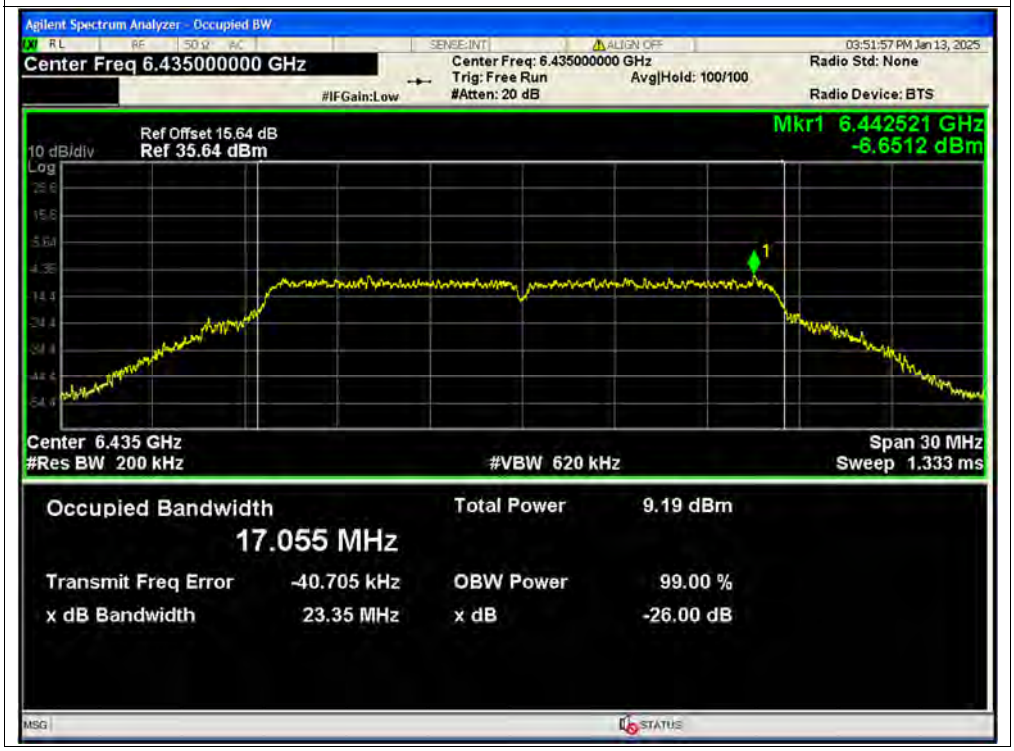
OBW NVNT a 6415MHz Ant13 SISO



OBW NVNT a 6435MHz Ant12 SISO



OBW NVNT a 6435MHz Ant13 SISO



OBW NVNT a 6475MHz Ant12 SISO



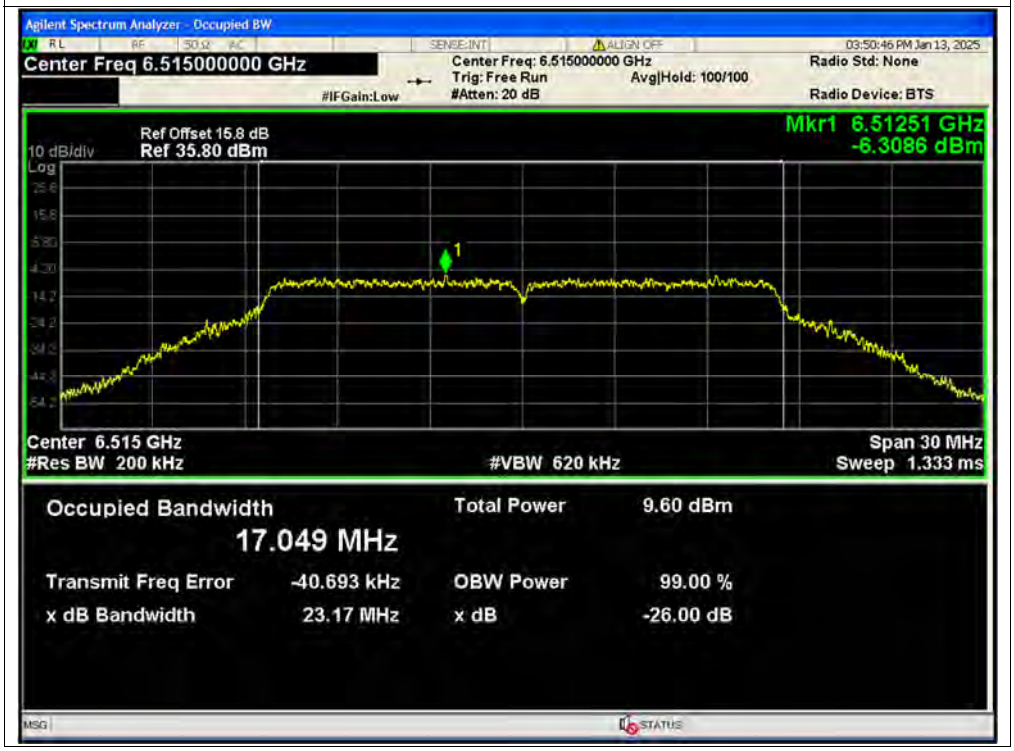
OBW NVNT a 6475MHz Ant13 SISO



OBW NVNT a 6515MHz Ant12 SISO



OBW NVNT a 6515MHz Ant13 SISO



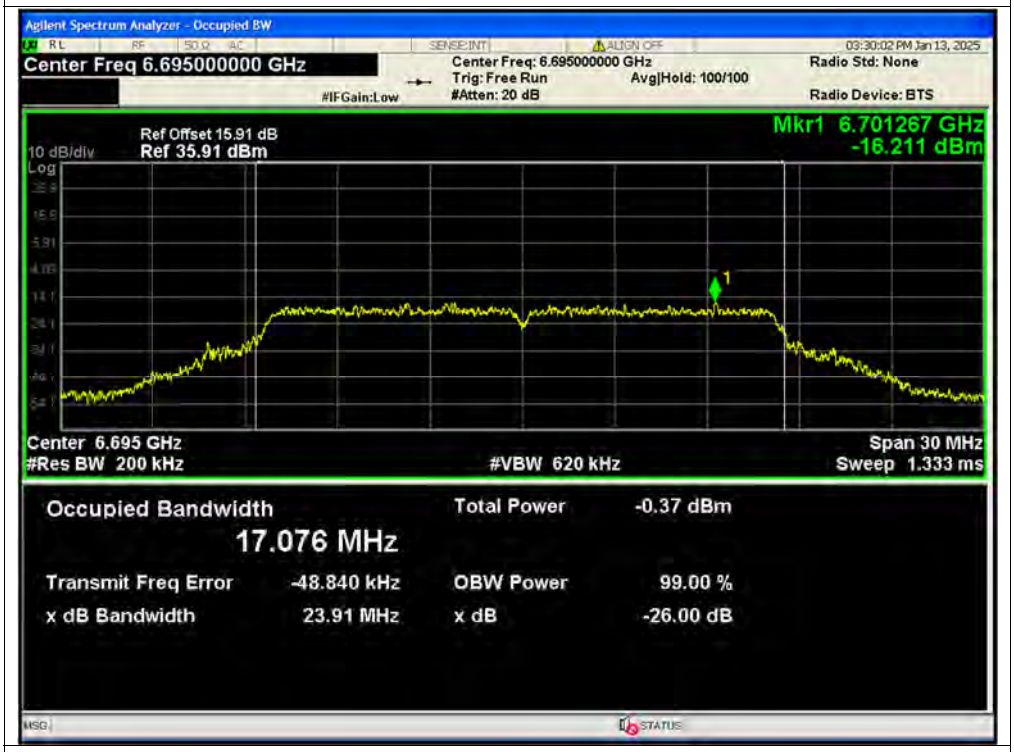
OBW NVNT a 6535MHz Ant12 SISO



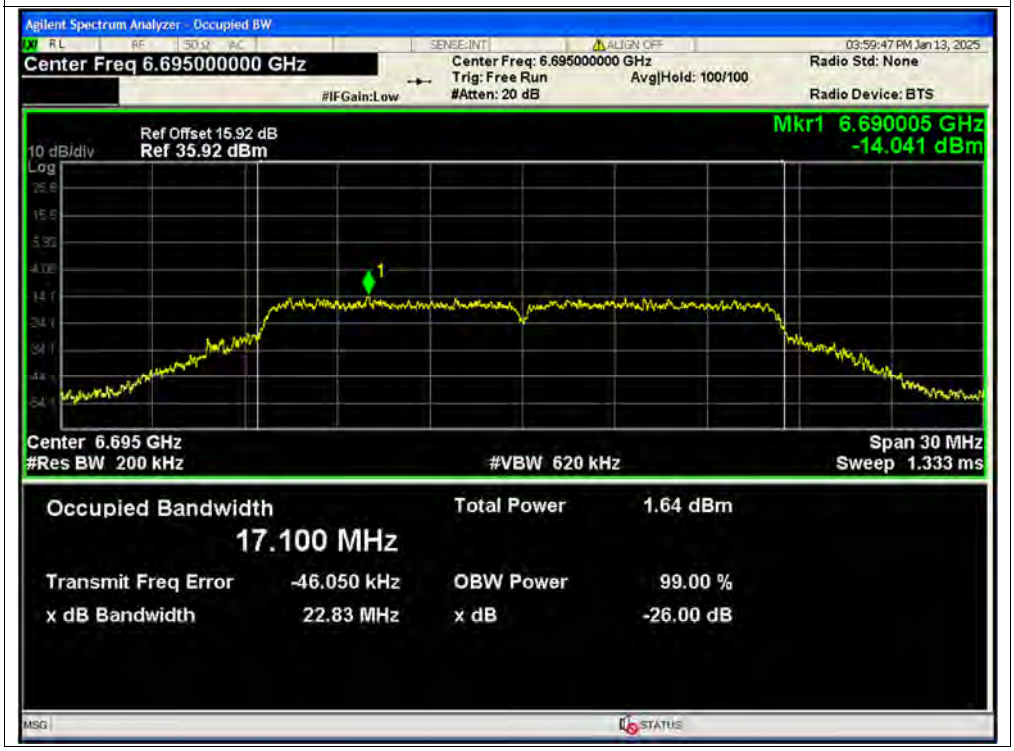
OBW NVNT a 6535MHz Ant13 SISO



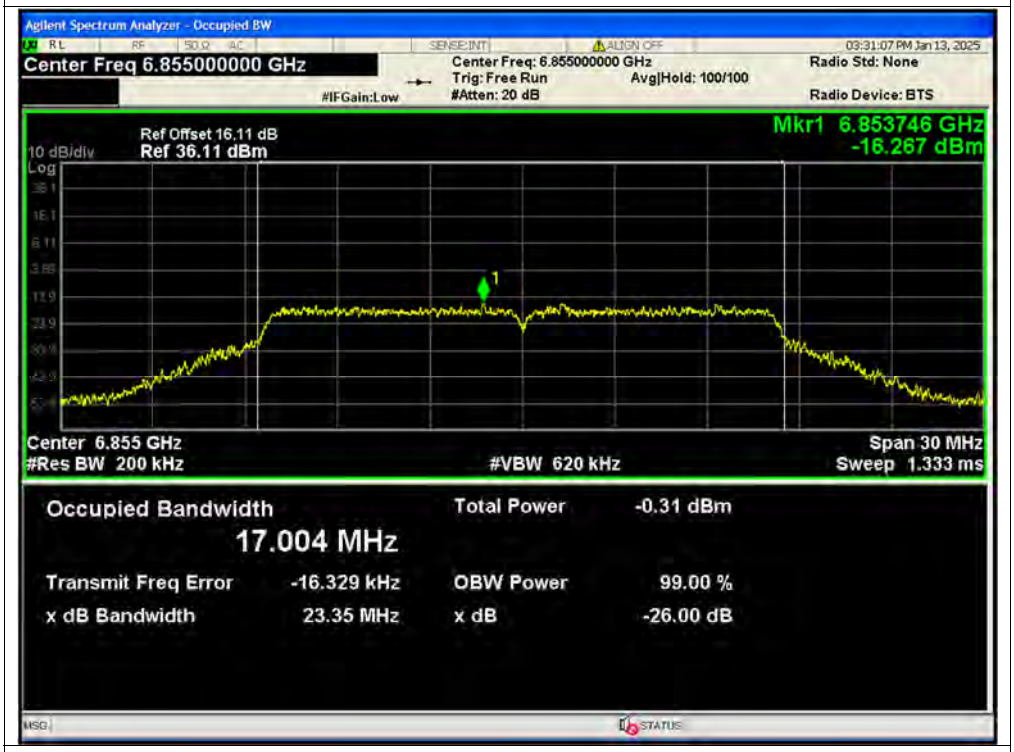
OBW NVNT a 6695MHz Ant12 SISO



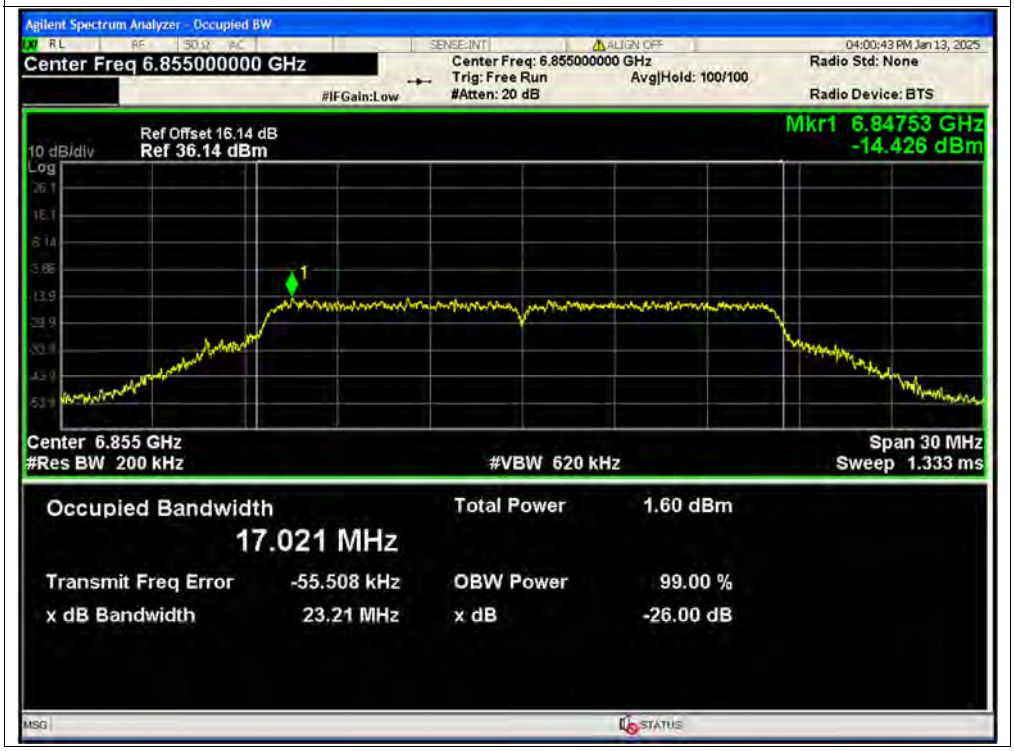
OBW NVNT a 6695MHz Ant13 SISO



OBW NVNT a 6855MHz Ant12 SISO



OBW NVNT a 6855MHz Ant13 SISO



OBW NVNT a 6875MHz Ant12 SISO



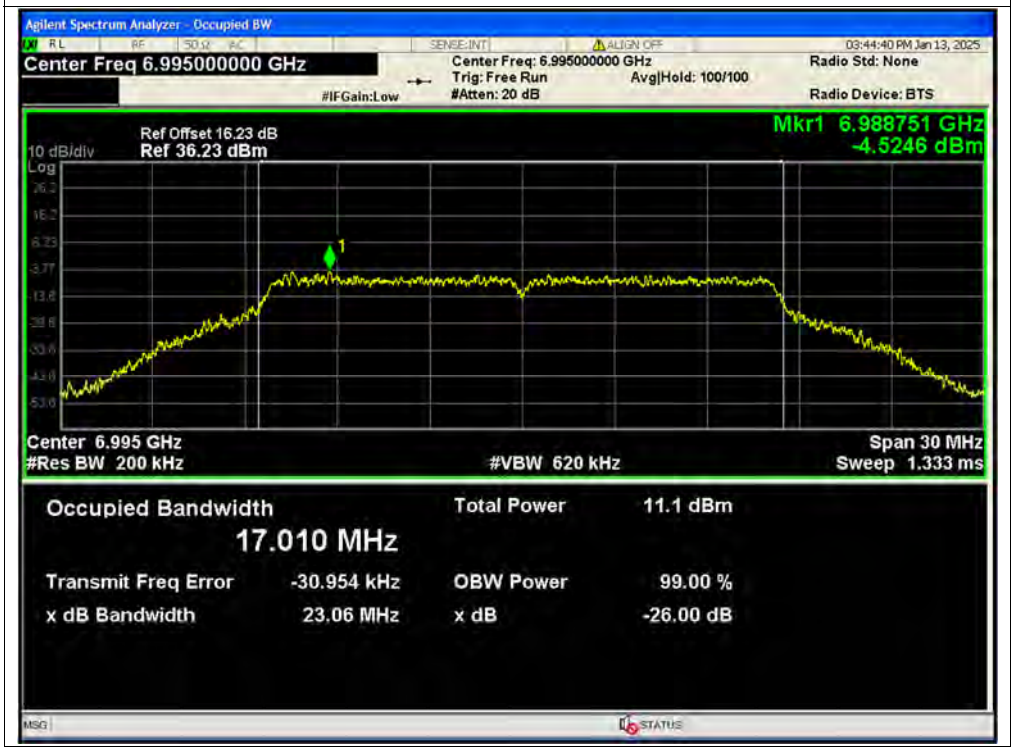
OBW NVNT a 6875MHz Ant13 SISO



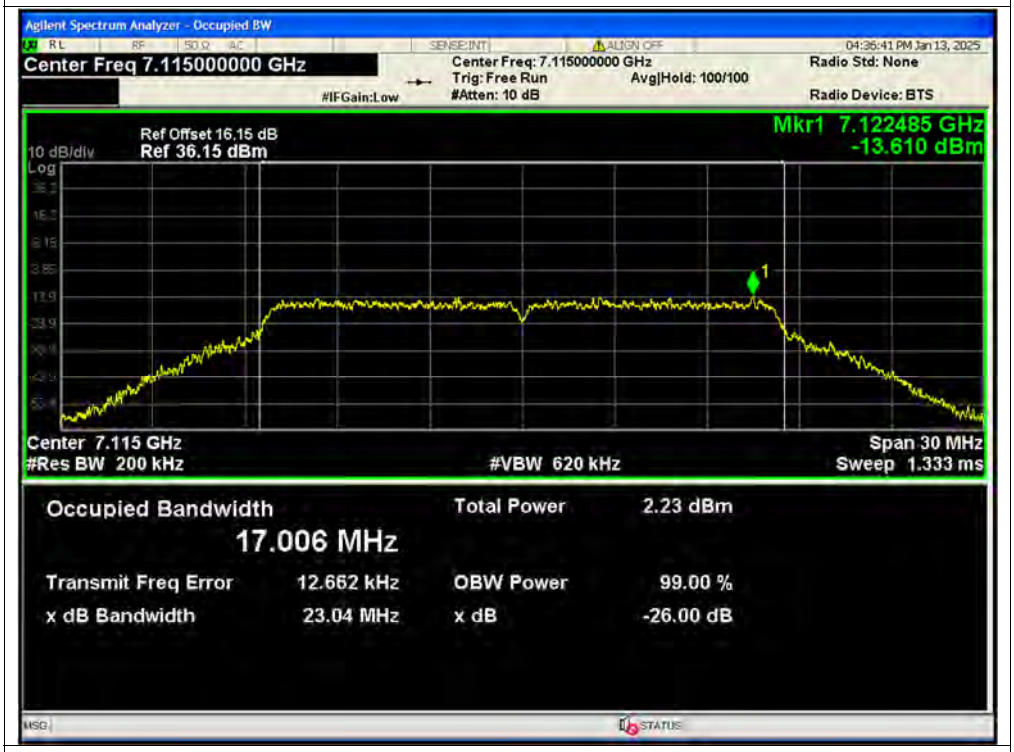
OBW NVNT a 6995MHz Ant12 SISO



OBW NVNT a 6995MHz Ant13 SISO



OBW NVNT a 7115MHz Ant12 SISO



OBW NVNT a 7115MHz Ant13 SISO



B.4.Power Spectral Density

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Gain (dBi)	eirp PSD (dBm)	Limit (dBm)	Verdict
NVNT	a SISO	5955	Ant12	-17.22	0	-17.22	-5	-22.22	-1	Pass
NVNT	a SISO	5955	Ant13	-16.36	0	-16.36	-5	-21.36	-1	Pass
NVNT	a SISO	6175	Ant12	-17.2	0	-17.2	-5	-22.2	-1	Pass
NVNT	a SISO	6175	Ant13	-16.29	0	-16.29	-5	-21.29	-1	Pass
NVNT	a SISO	6415	Ant12	-17.84	0	-17.84	-5	-22.84	-1	Pass
NVNT	a SISO	6415	Ant13	-16.16	0	-16.16	-5	-21.16	-1	Pass
NVNT	a SISO	6435	Ant12	-9.13	0	-9.13	-5	-14.13	-1	Pass
NVNT	a SISO	6435	Ant13	-7.64	0	-7.64	-5	-12.64	-1	Pass
NVNT	a SISO	6475	Ant12	-9.13	0	-9.13	-5	-14.13	-1	Pass
NVNT	a SISO	6475	Ant13	-7.69	0	-7.69	-5	-12.69	-1	Pass
NVNT	a SISO	6515	Ant12	-9.12	0	-9.12	-5	-14.12	-1	Pass
NVNT	a SISO	6515	Ant13	-7.11	0	-7.11	-5	-12.11	-1	Pass
NVNT	a SISO	6535	Ant12	-18.09	0	-18.09	-5	-23.09	-1	Pass
NVNT	a SISO	6535	Ant13	-15.88	0	-15.88	-5	-20.88	-1	Pass
NVNT	a SISO	6695	Ant12	-17.35	0	-17.35	-5	-22.35	-1	Pass
NVNT	a SISO	6695	Ant13	-15.15	0	-15.15	-5	-20.15	-1	Pass
NVNT	a SISO	6855	Ant12	-17.17	0	-17.17	-5	-22.17	-1	Pass
NVNT	a SISO	6855	Ant13	-15.22	0	-15.22	-5	-20.22	-1	Pass
NVNT	a SISO	6875	Ant12	-10.42	0	-10.42	-5	-15.42	-1	Pass
NVNT	a SISO	6875	Ant13	-5.6	0	-5.6	-5	-10.6	-1	Pass
NVNT	a SISO	6995	Ant12	-9.51	0	-9.51	-5	-14.51	-1	Pass
NVNT	a SISO	6995	Ant13	-5.98	0	-5.98	-5	-10.98	-1	Pass
NVNT	a SISO	7115	Ant12	-25.34	0.08	-25.26	-5	-30.26	-1	Pass
NVNT	a SISO	7115	Ant13	-25.77	0.08	-25.69	-5	-30.69	-1	Pass

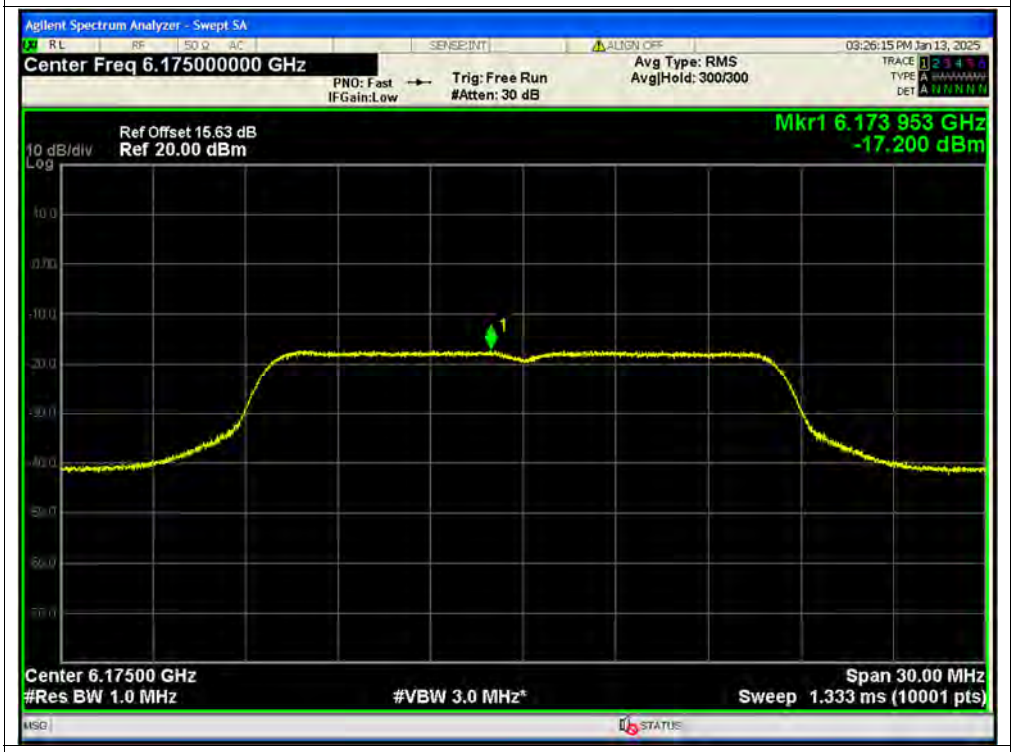
Test Graphs
PSD NVNT a 5955MHz Ant12 SISO



PSD NVNT a 5955MHz Ant13 SISO



PSD NVNT a 6175MHz Ant12 SISO



PSD NVNT a 6175MHz Ant13 SISO



PSD NVNT a 6415MHz Ant12 SISO



PSD NVNT a 6415MHz Ant13 SISO



PSD NVNT a 6435MHz Ant12 SISO



PSD NVNT a 6435MHz Ant13 SISO



PSD NVNT a 6475MHz Ant12 SISO



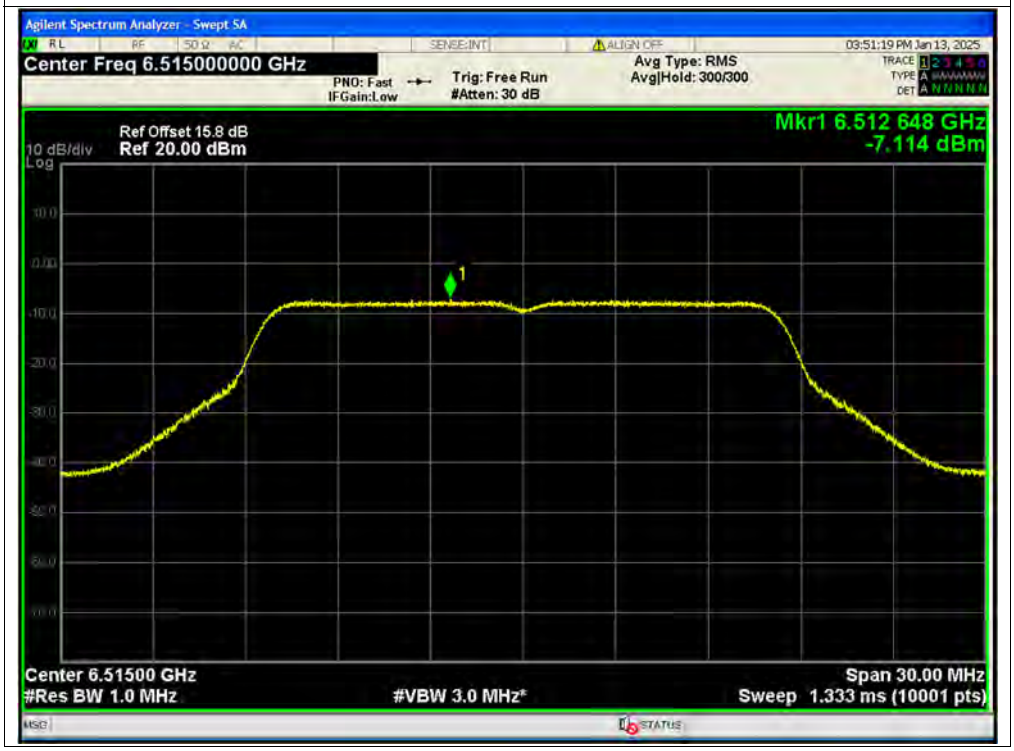
PSD NVNT a 6475MHz Ant13 SISO



PSD NVNT a 6515MHz Ant12 SISO



PSD NVNT a 6515MHz Ant13 SISO



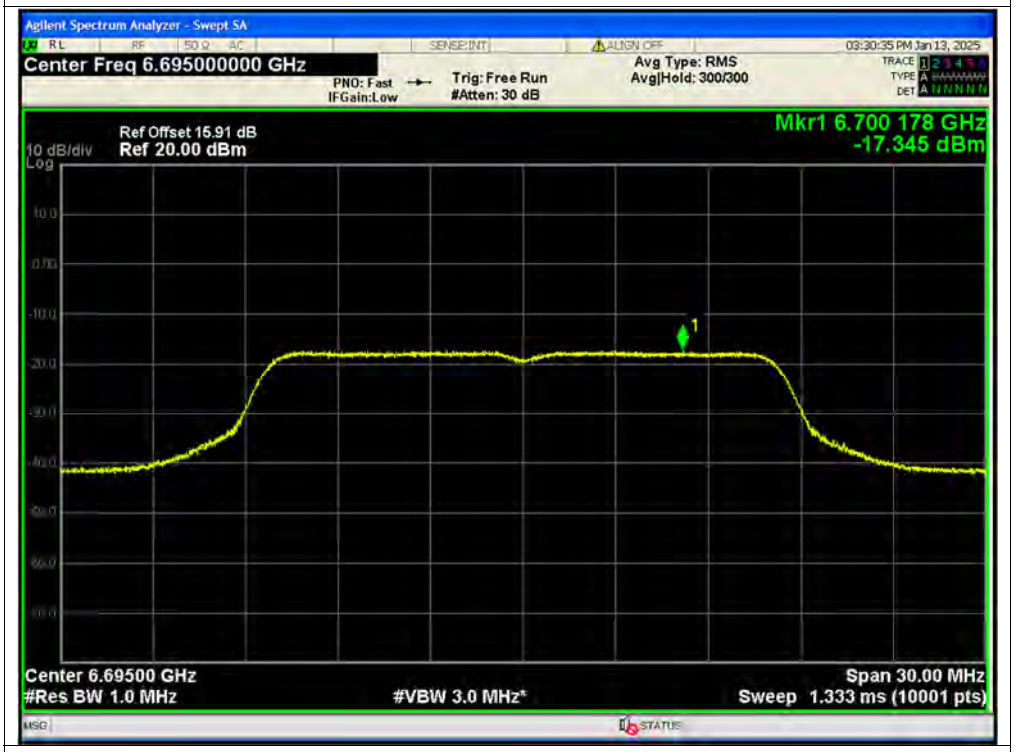
PSD NVNT a 6535MHz Ant12 SISO



PSD NVNT a 6535MHz Ant13 SISO



PSD NVNT a 6695MHz Ant12 SISO



PSD NVNT a 6695MHz Ant13 SISO



PSD NVNT a 6855MHz Ant12 SISO



PSD NVNT a 6855MHz Ant13 SISO



PSD NVNT a 6875MHz Ant12 SISO



PSD NVNT a 6875MHz Ant13 SISO



PSD NVNT a 6995MHz Ant12 SISO



PSD NVNT a 6995MHz Ant13 SISO



PSD NVNT a 7115MHz Ant12 SISO



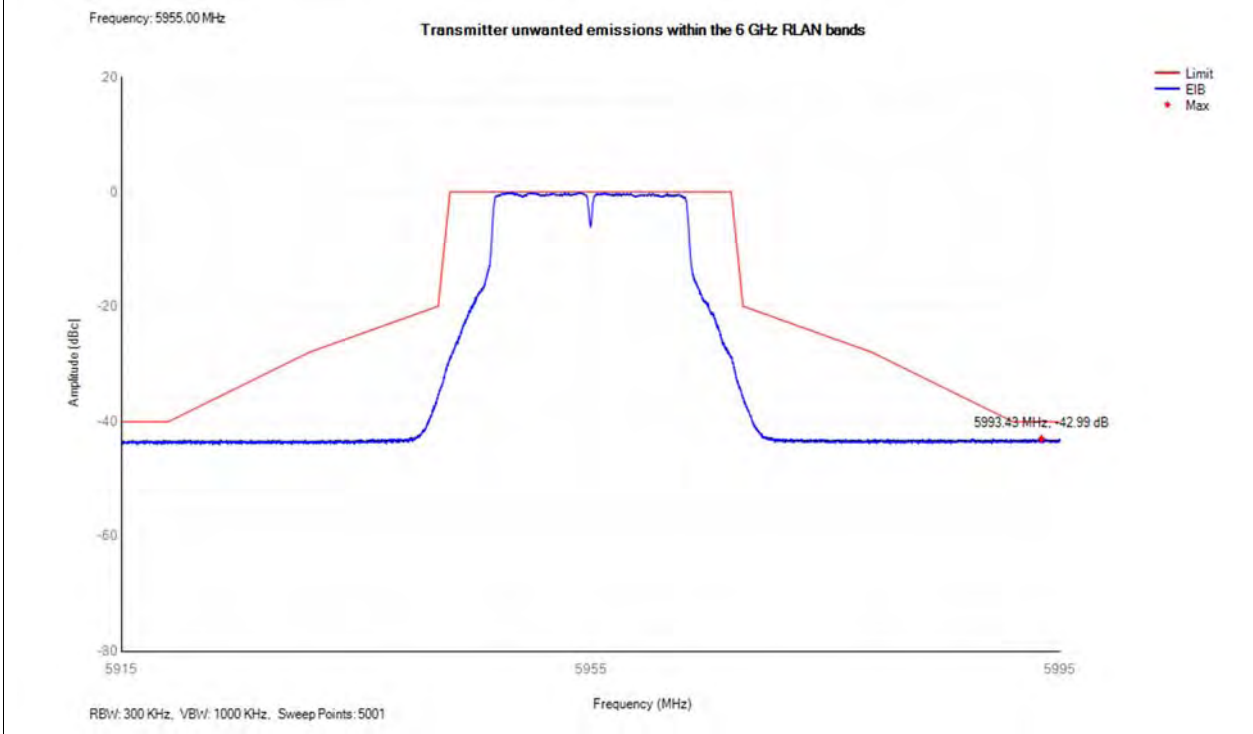
PSD NVNT a 7115MHz Ant13 SISO



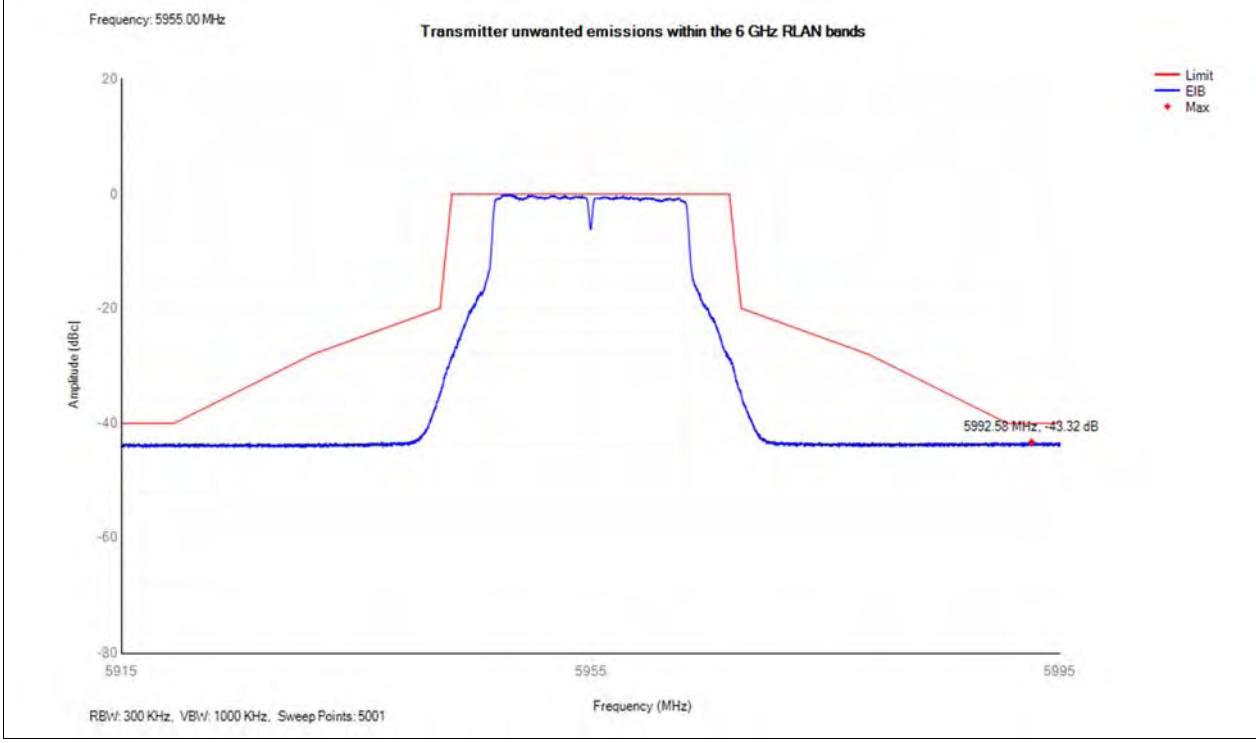
B.5.Emission Mask

Condition	Mode	Frequency (MHz)	Antenna	Sub Band	Worst EIB Frequency (MHz)	Level (dB)	Limit (dB)	Verdict
NVNT	a SISO	5955	Ant12	Band1	5993.43	-42.99	-40	Pass
NVNT	a SISO	5955	Ant13	Band1	5992.58	-43.32	-40	Pass
NVNT	a SISO	6175	Ant12	Band1	6135.14	-41.96	-40	Pass
NVNT	a SISO	6175	Ant13	Band1	6135.32	-42.82	-40	Pass
NVNT	a SISO	6415	Ant12	Band1	6454.02	-43.13	-40	Pass
NVNT	a SISO	6415	Ant13	Band1	6450.25	-44.08	-40	Pass
NVNT	a SISO	6435	Ant12	Band1	6472.98	-43	-40	Pass
NVNT	a SISO	6435	Ant13	Band1	6473.26	-44.44	-40	Pass
NVNT	a SISO	6475	Ant12	Band1	6510.87	-42.82	-40	Pass
NVNT	a SISO	6475	Ant13	Band1	6513.64	-44.41	-40	Pass
NVNT	a SISO	6515	Ant12	Band1	6552.84	-42.41	-40	Pass
NVNT	a SISO	6515	Ant13	Band1	6553.43	-44.04	-40	Pass
NVNT	a SISO	6535	Ant12	Band1	6571.88	-42.01	-40	Pass
NVNT	a SISO	6535	Ant13	Band1	6573.4	-43.94	-40	Pass
NVNT	a SISO	6695	Ant12	Band1	6658.09	-41.49	-40	Pass
NVNT	a SISO	6695	Ant13	Band1	6657	-44.16	-40	Pass
NVNT	a SISO	6855	Ant12	Band1	6816.79	-41.44	-40	Pass
NVNT	a SISO	6855	Ant13	Band1	6816.9	-44.63	-40	Pass
NVNT	a SISO	6875	Ant12	Band1	6836.5	-40.97	-40	Pass
NVNT	a SISO	6875	Ant13	Band1	6838.49	-44.81	-40	Pass
NVNT	a SISO	6995	Ant12	Band1	7031.91	-42.2	-40	Pass
NVNT	a SISO	6995	Ant13	Band1	7031.24	-44.81	-40	Pass
NVNT	a SISO	7115	Ant12	Band1	7154.54	-47.14	-40	Pass
NVNT	a SISO	7115	Ant13	Band1	7154.7	-46.93	-40	Pass

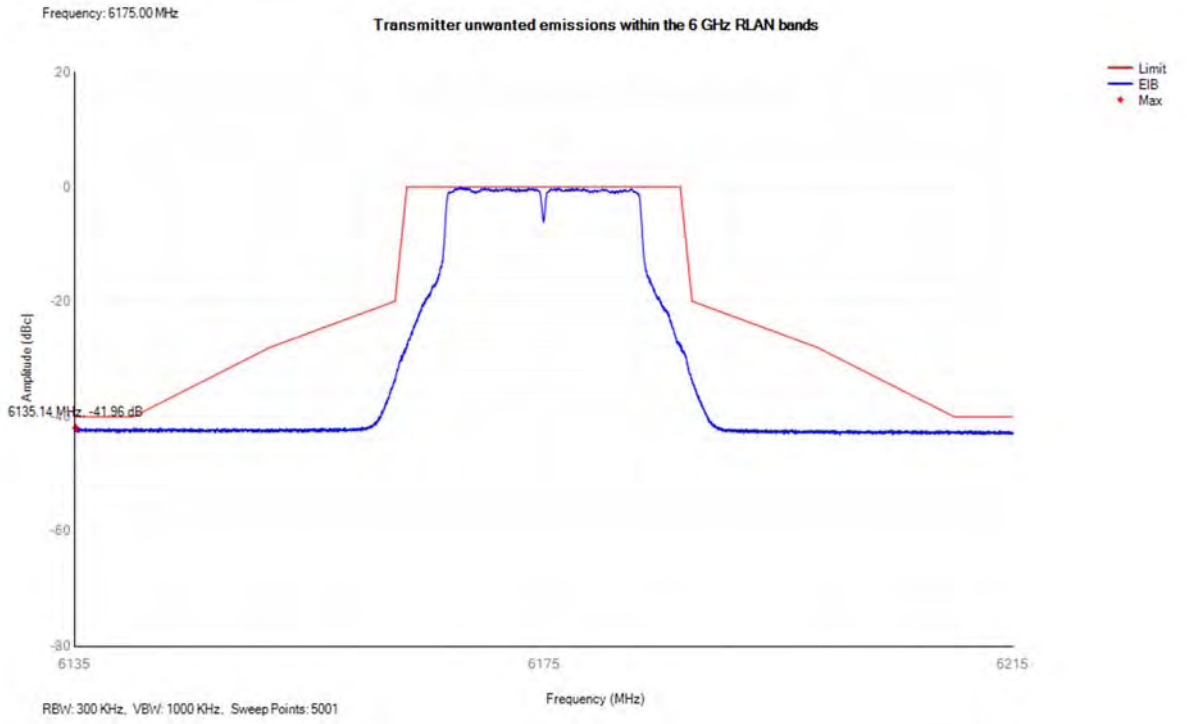
Test Graphs
Power spectral mask NVNT a 5955MHz SISO



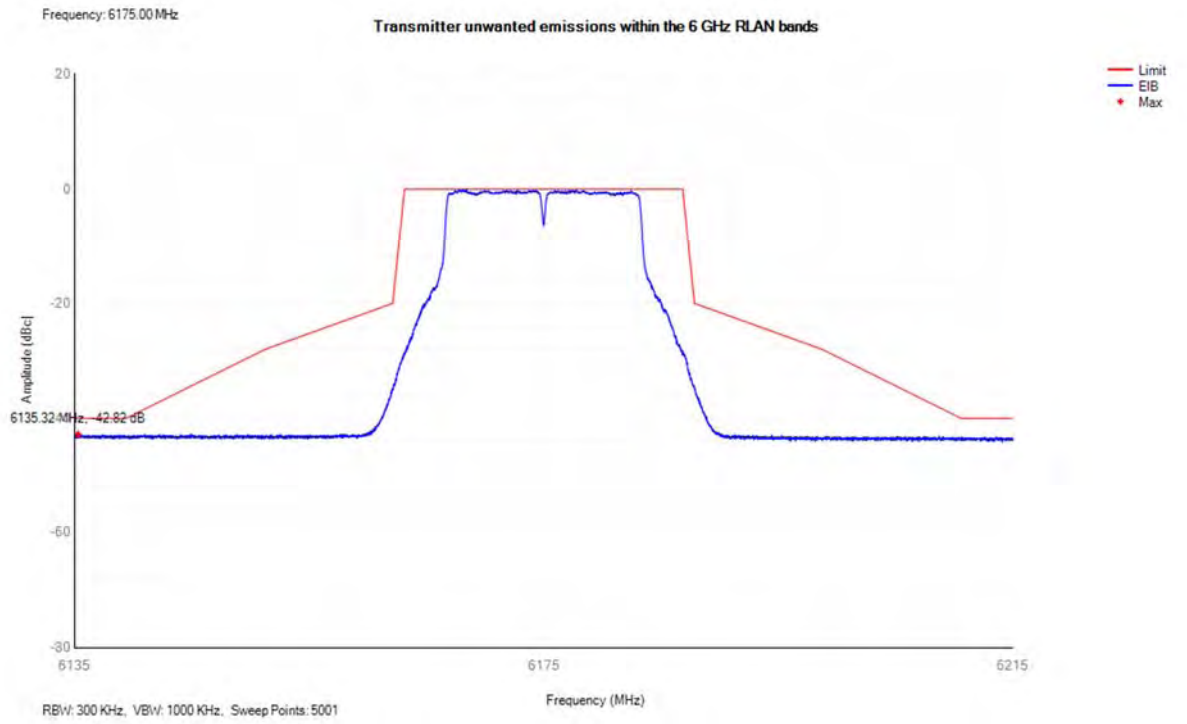
Power spectral mask NVNT a 5955MHz SISO



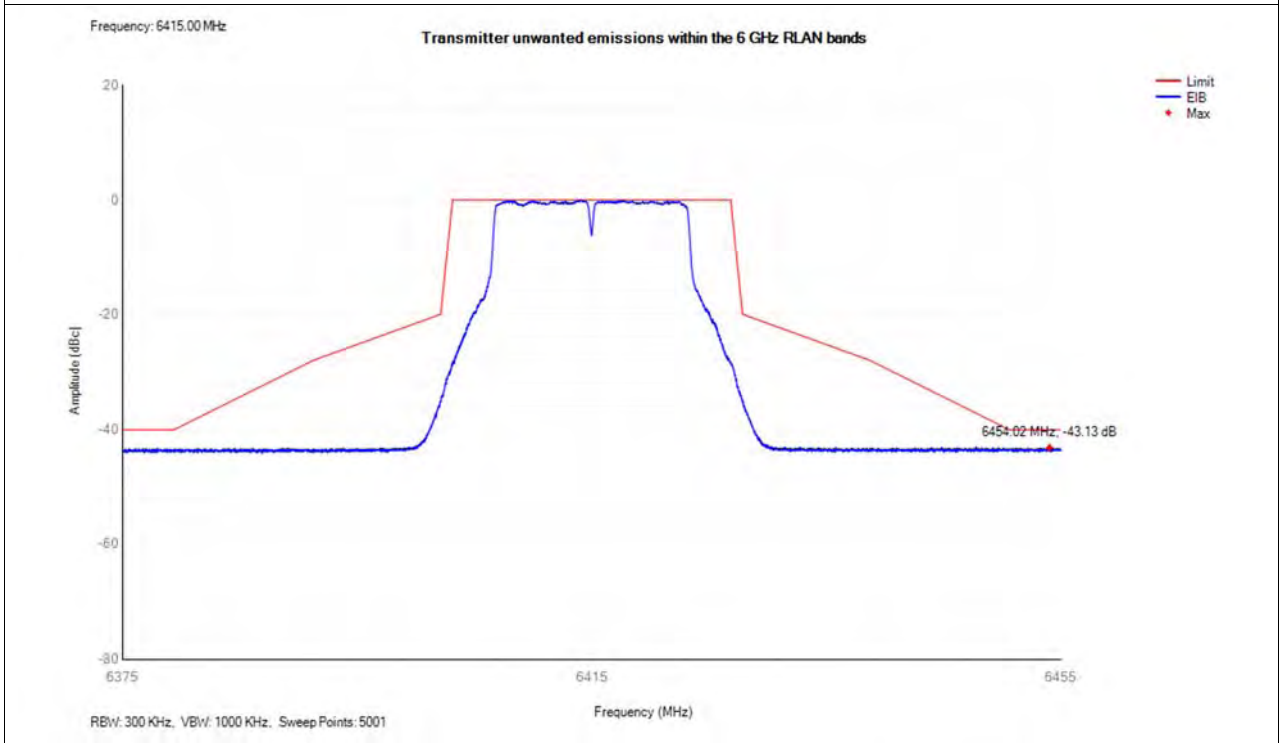
Power spectral mask NVNT a 6175MHz SISO



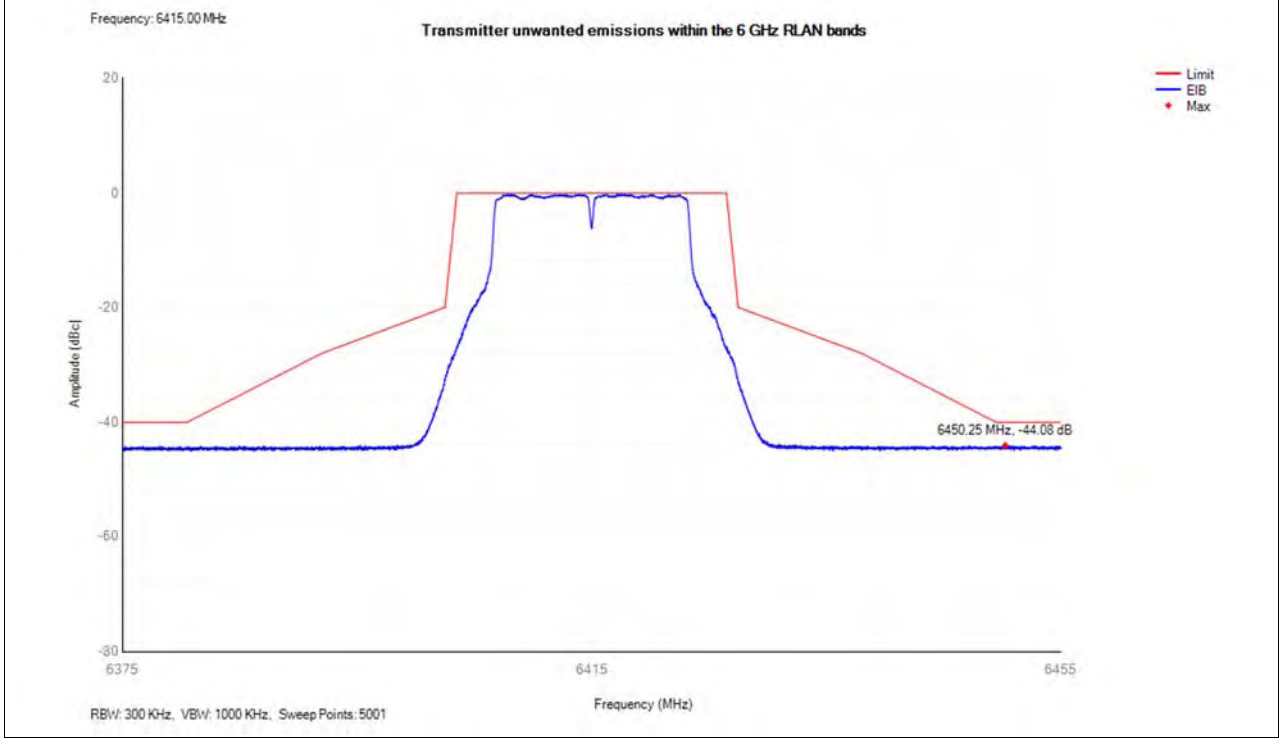
Power spectral mask NVNT a 6175MHz SISO



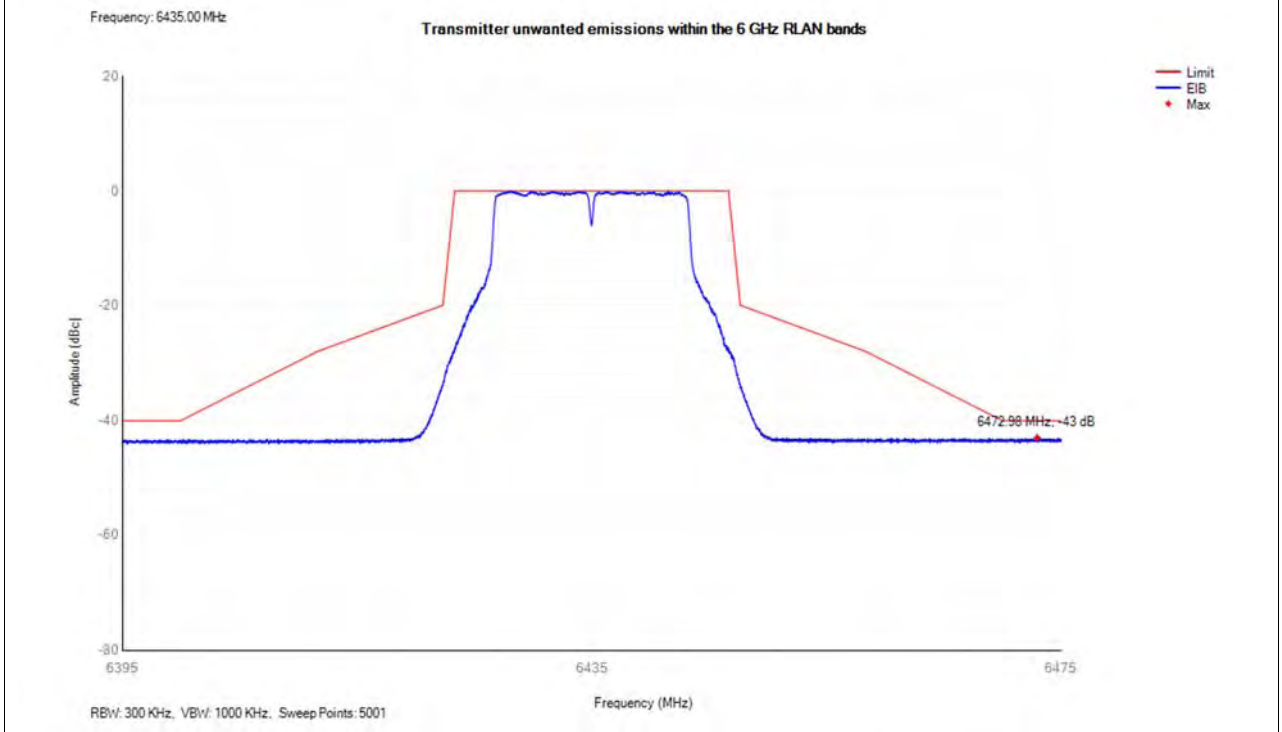
Power spectral mask NVNT a 6415MHz SISO



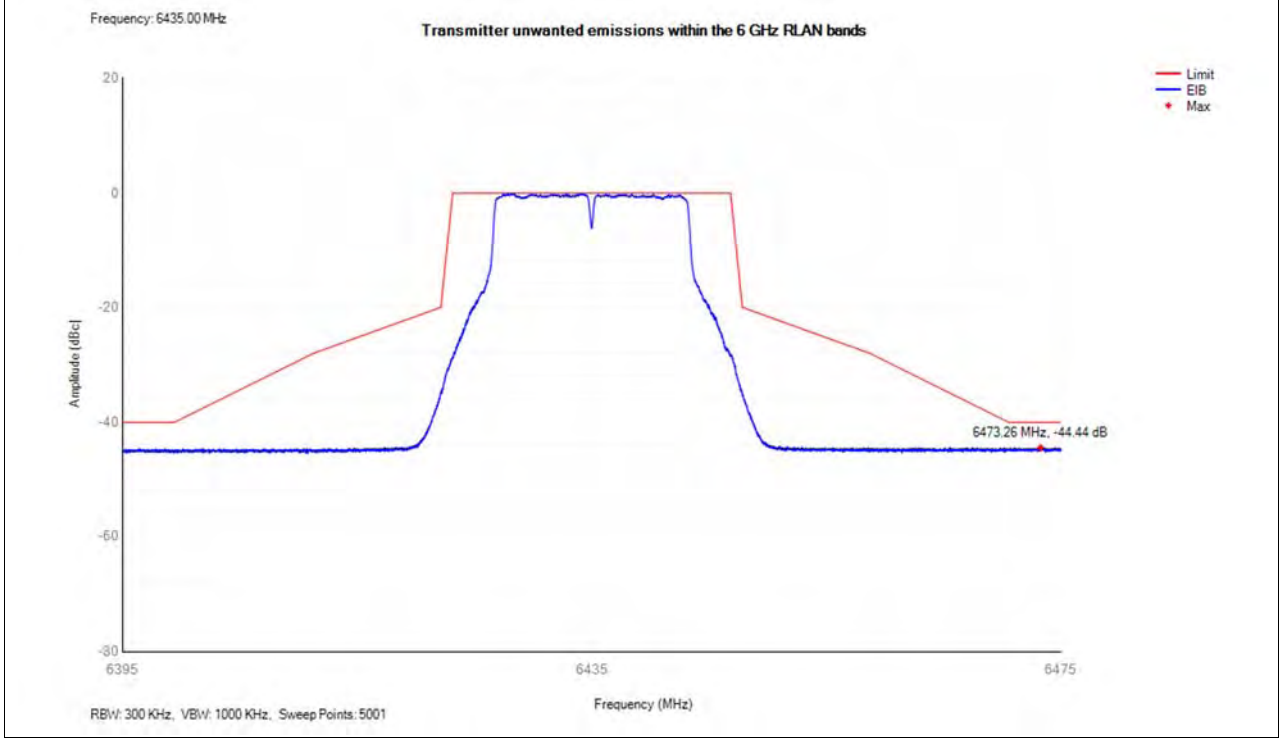
Power spectral mask NVNT a 6415MHz SISO



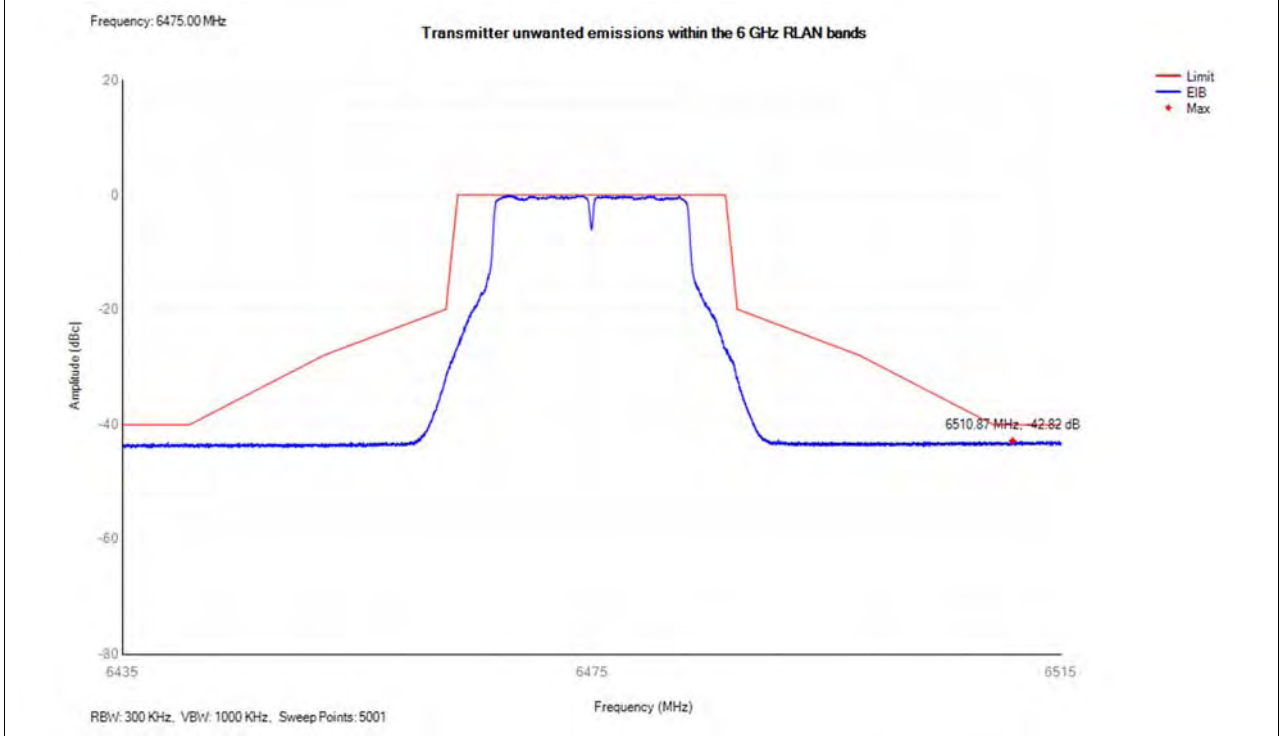
Power spectral mask NVNT a 6435MHz SISO



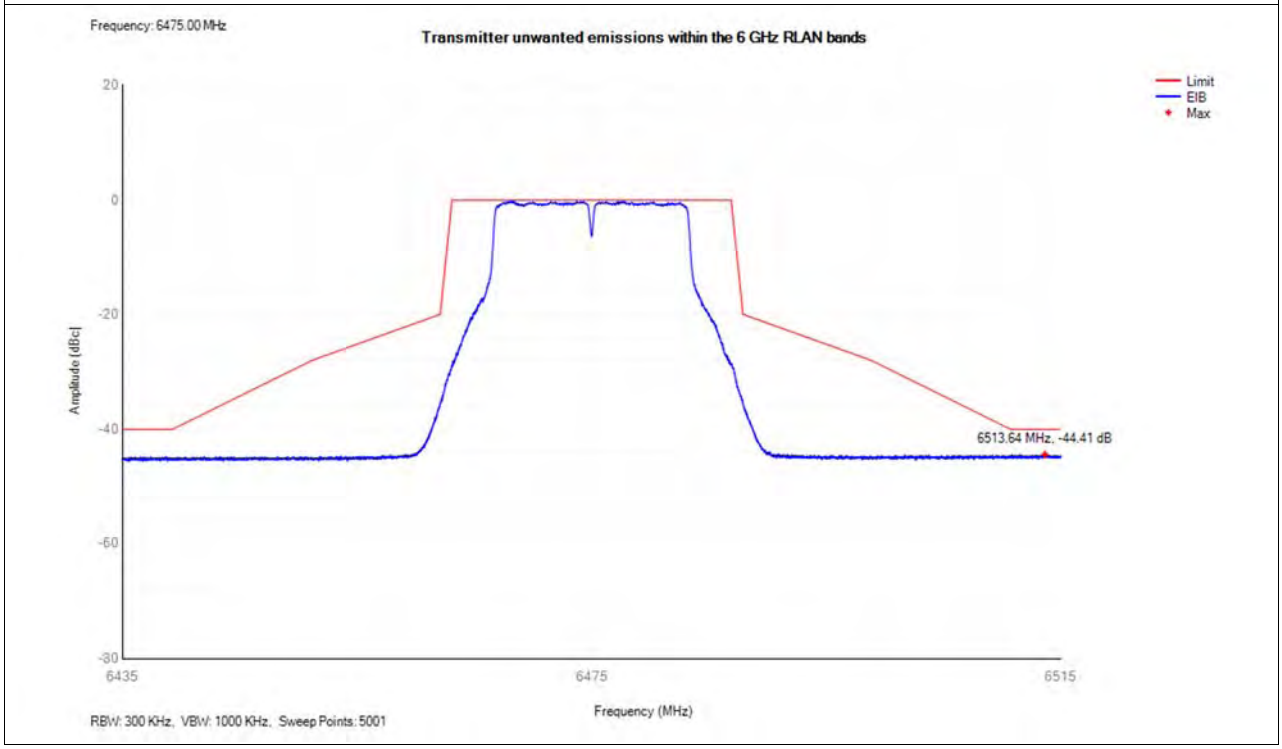
Power spectral mask NVNT a 6435MHz SISO



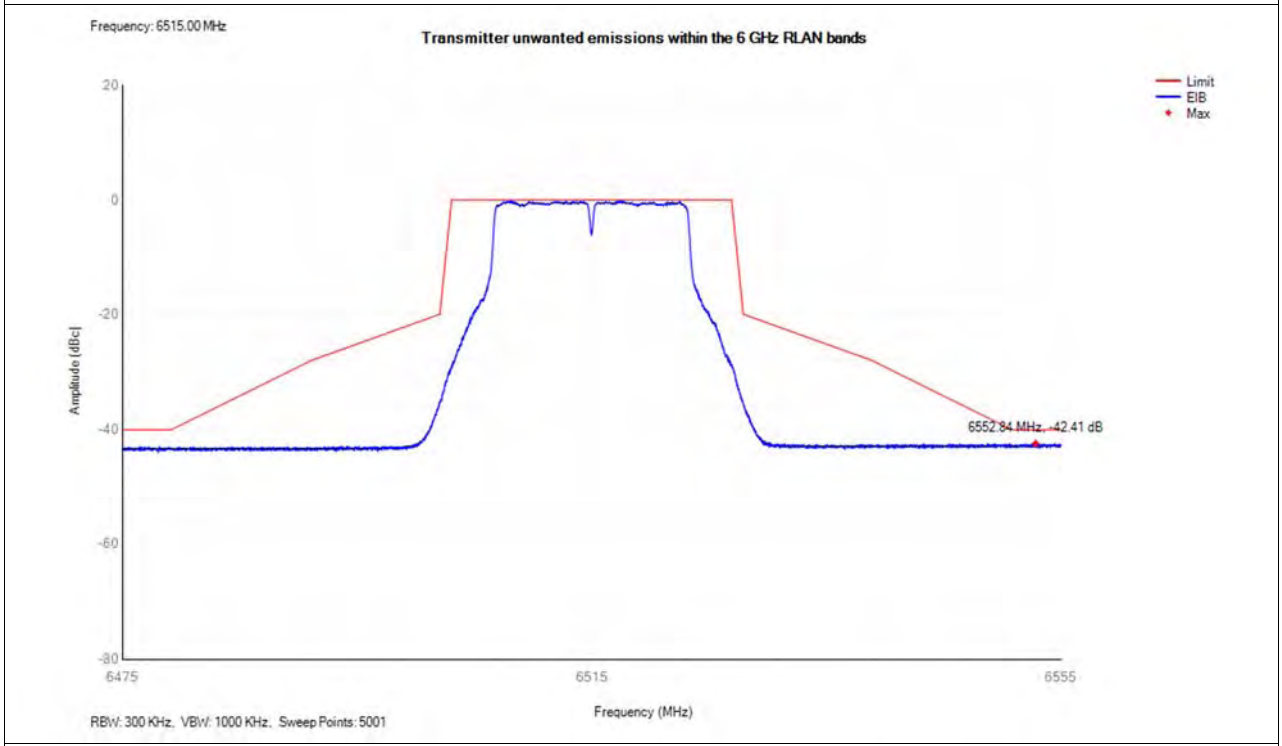
Power spectral mask NVNT a 6475MHz SISO



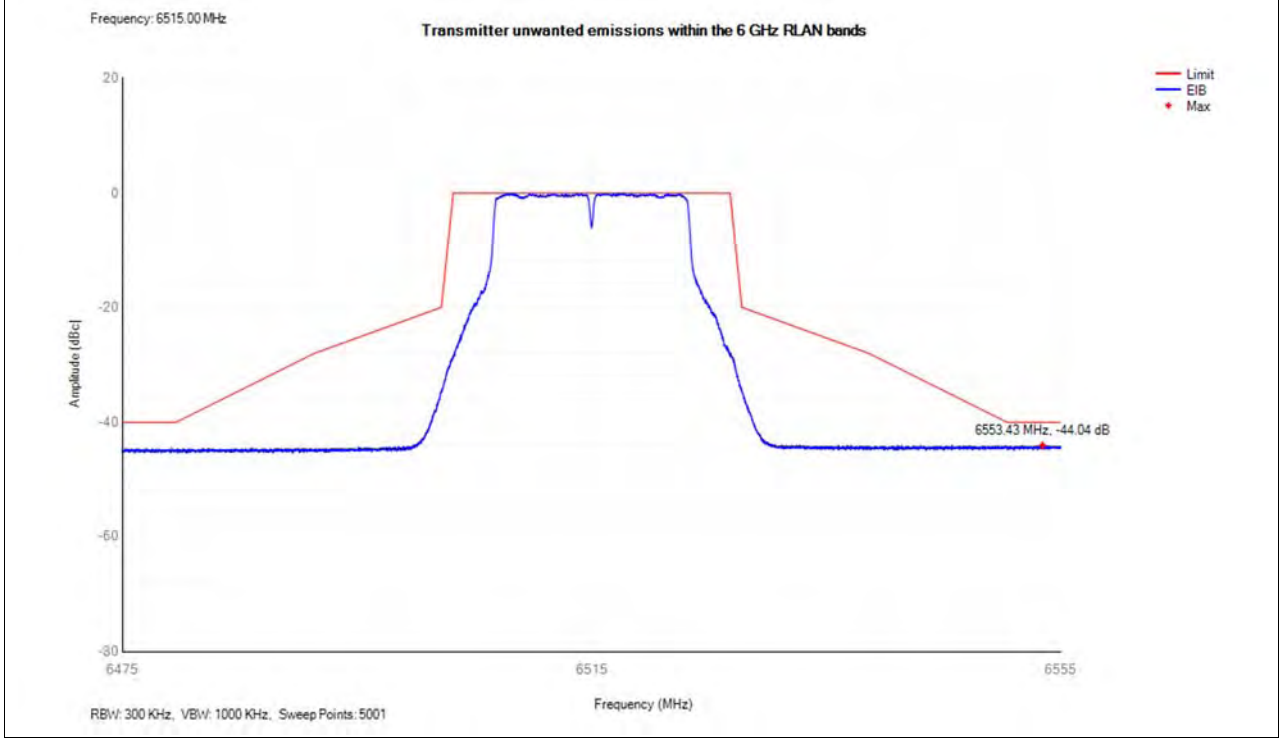
Power spectral mask NVNT a 6475MHz SISO



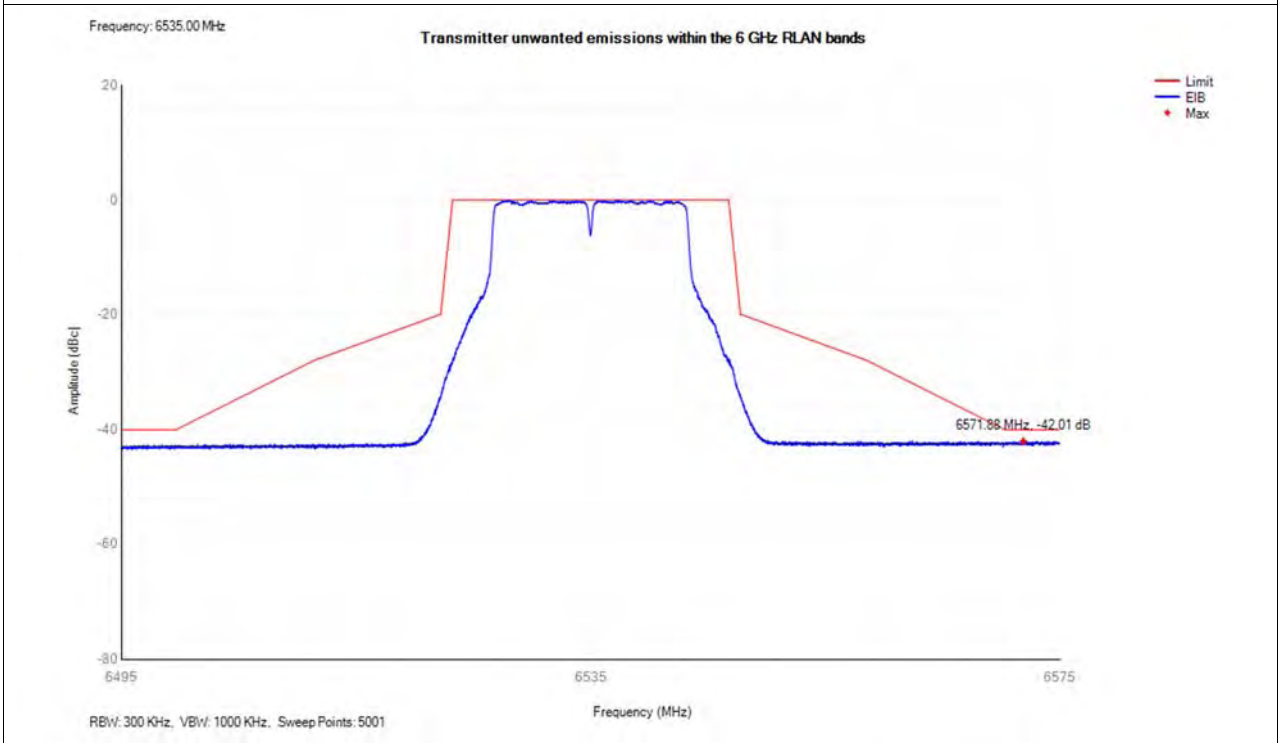
Power spectral mask NVNT a 6515MHz SISO



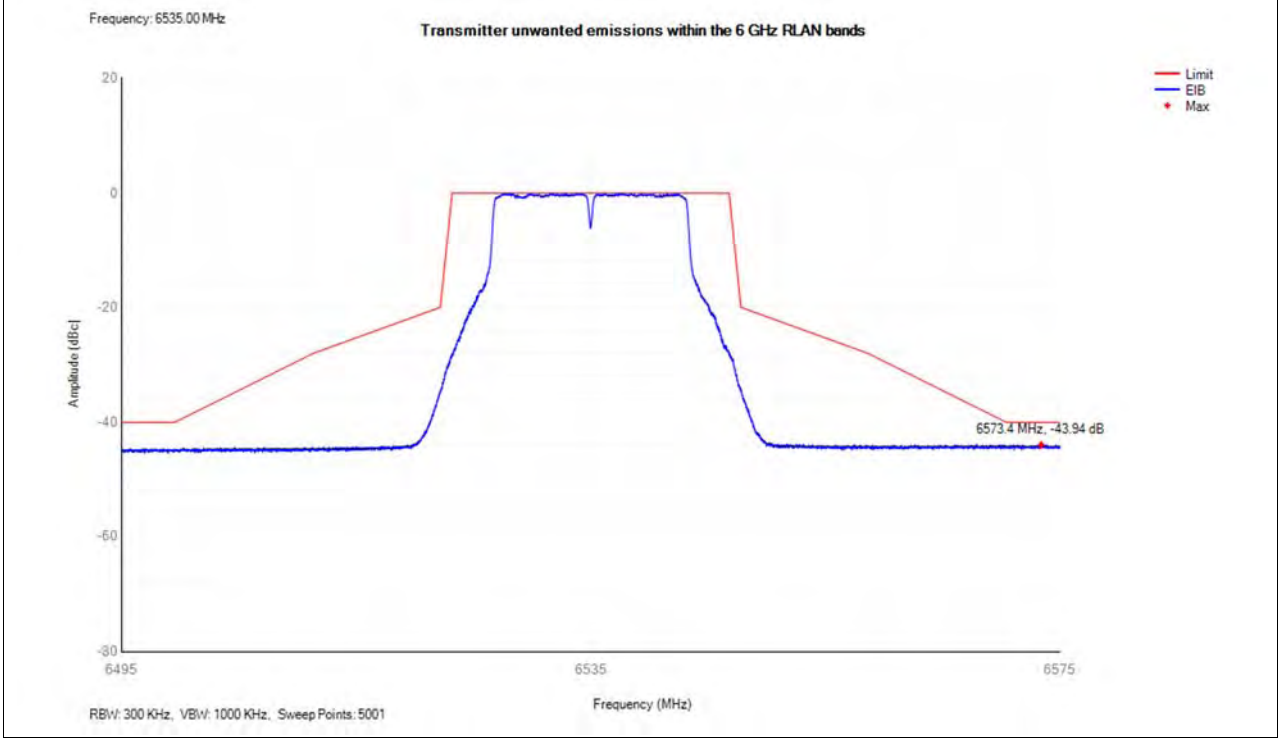
Power spectral mask NVNT a 6515MHz SISO



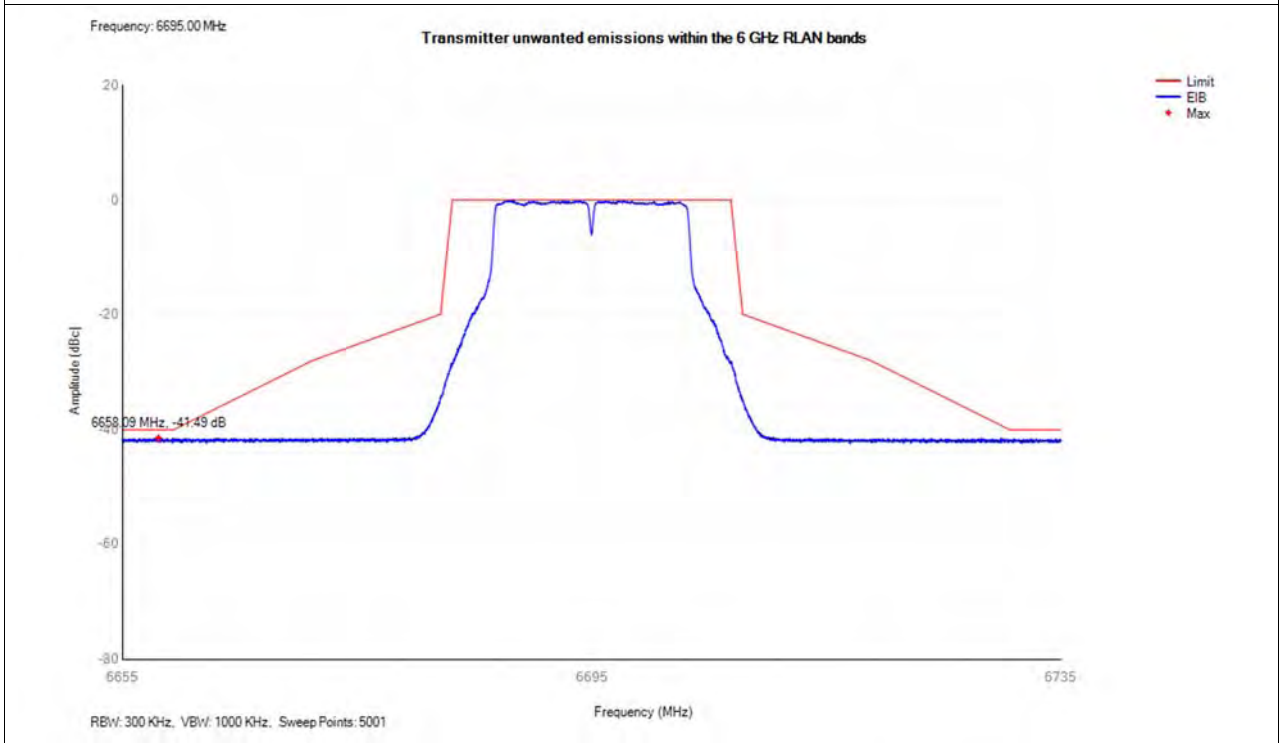
Power spectral mask NVNT a 6535MHz SISO



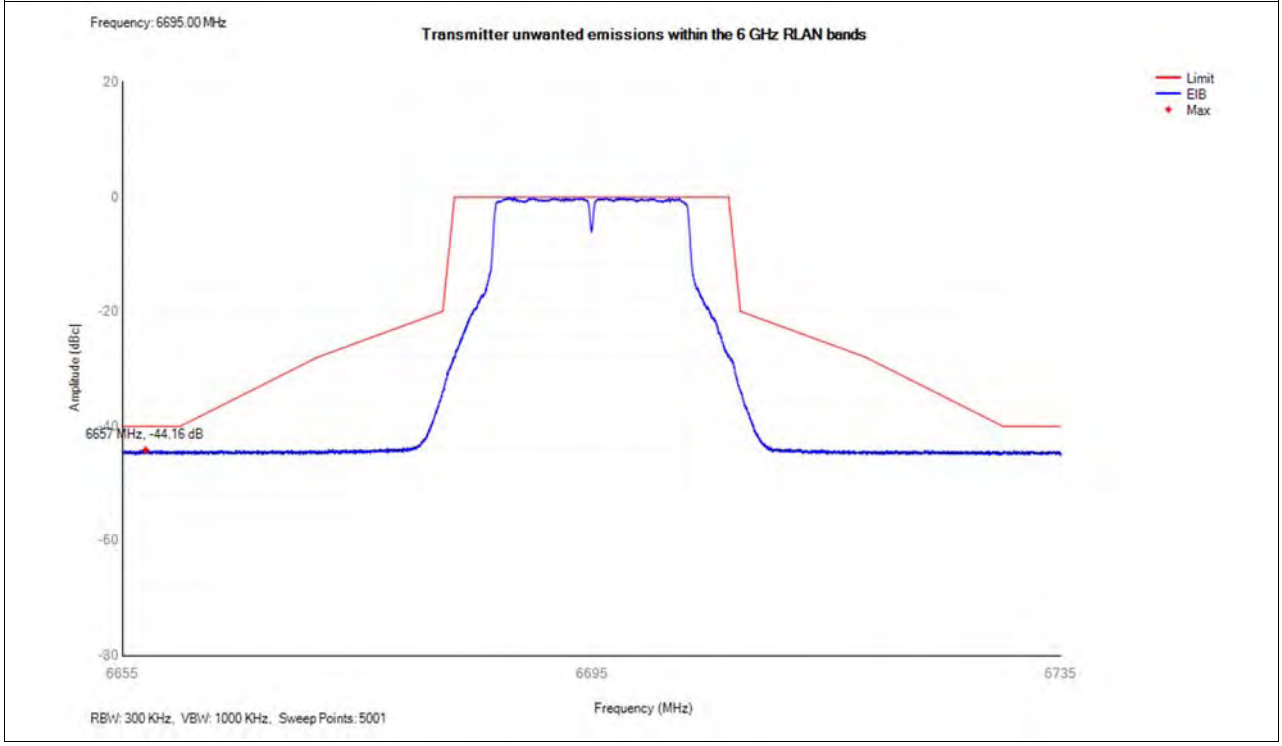
Power spectral mask NVNT a 6535MHz SISO



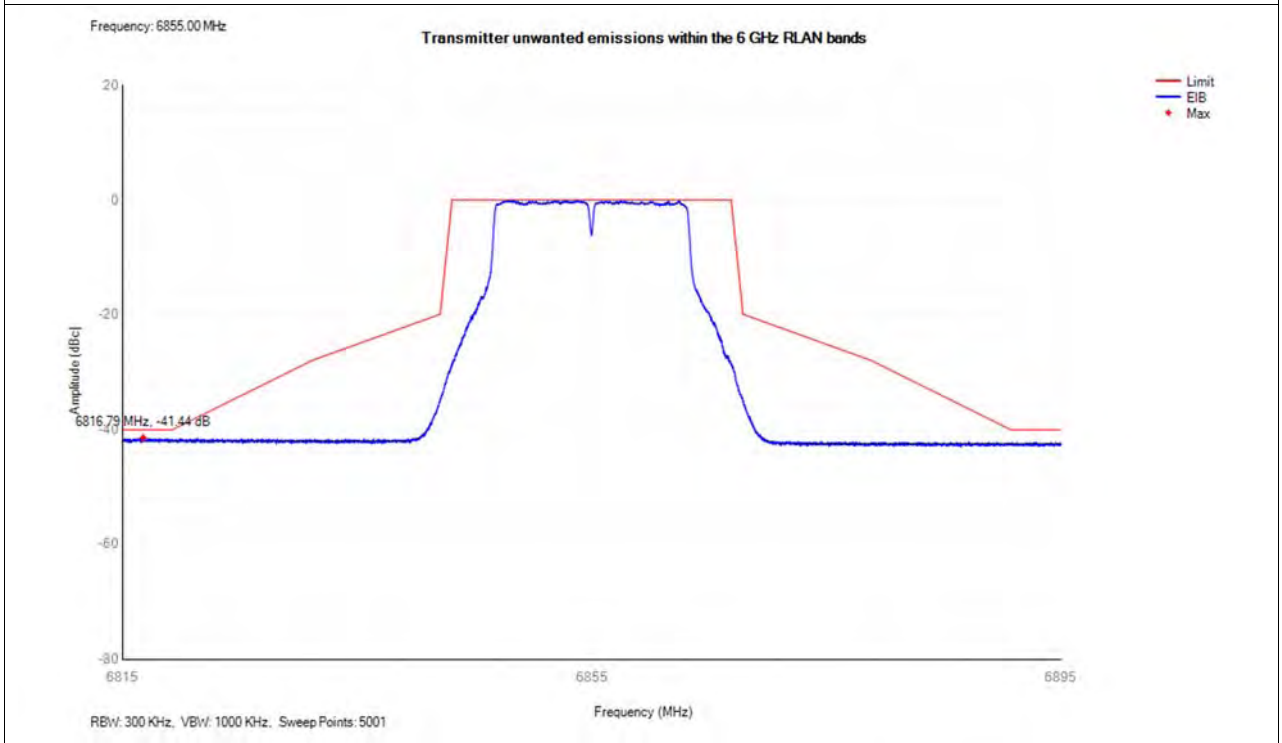
Power spectral mask NVNT a 6695MHz SISO



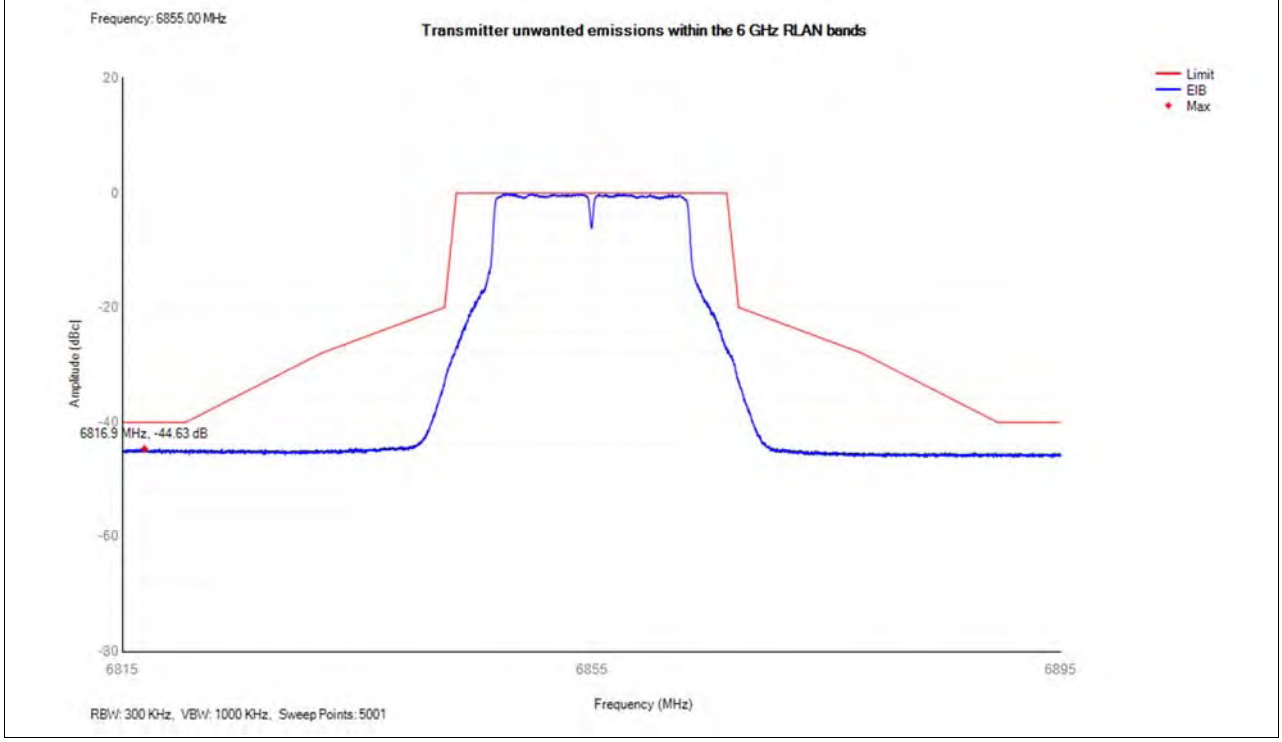
Power spectral mask NVNT a 6695MHz SISO



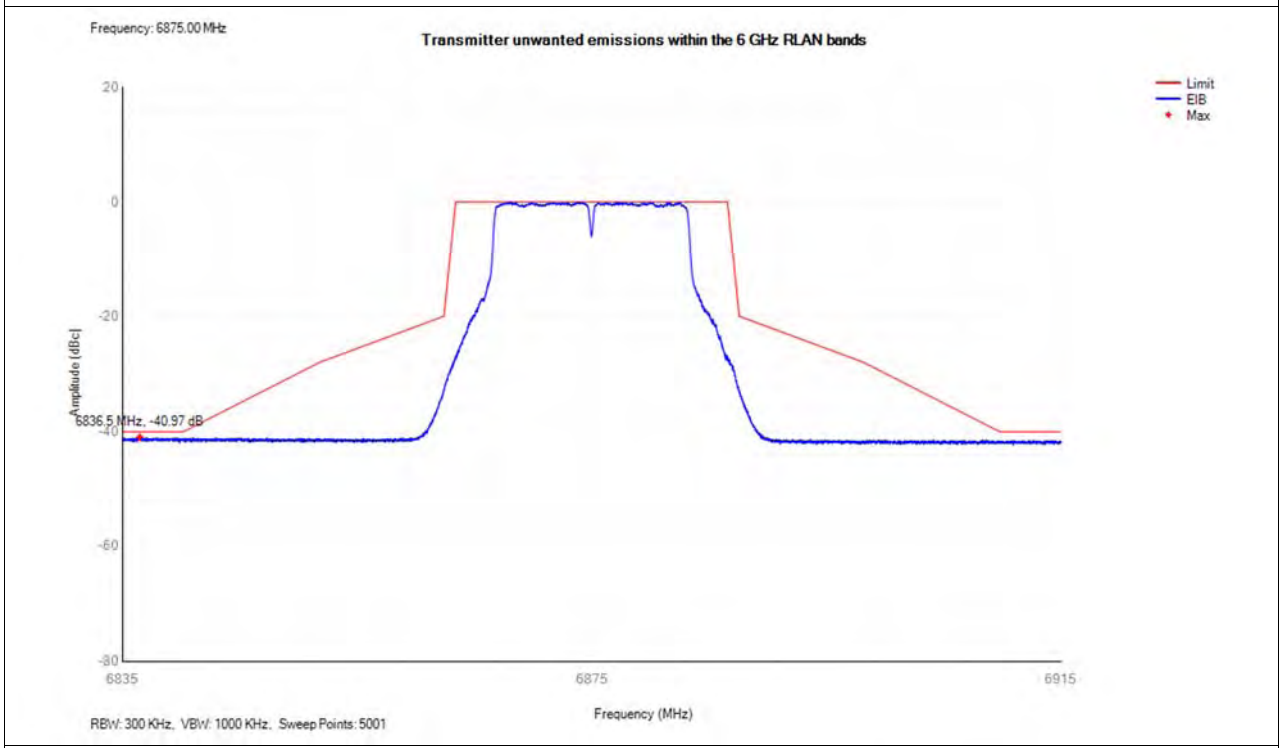
Power spectral mask NVNT a 6855MHz SISO



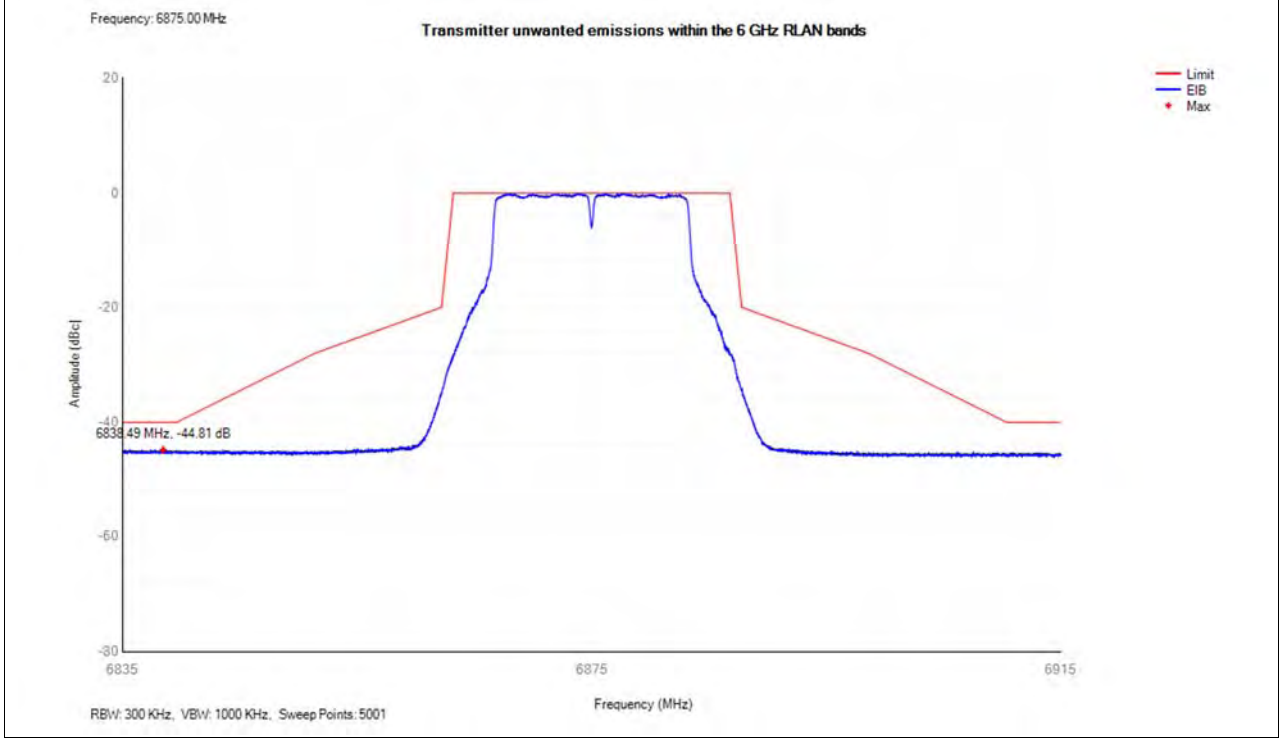
Power spectral mask NVNT a 6855MHz SISO



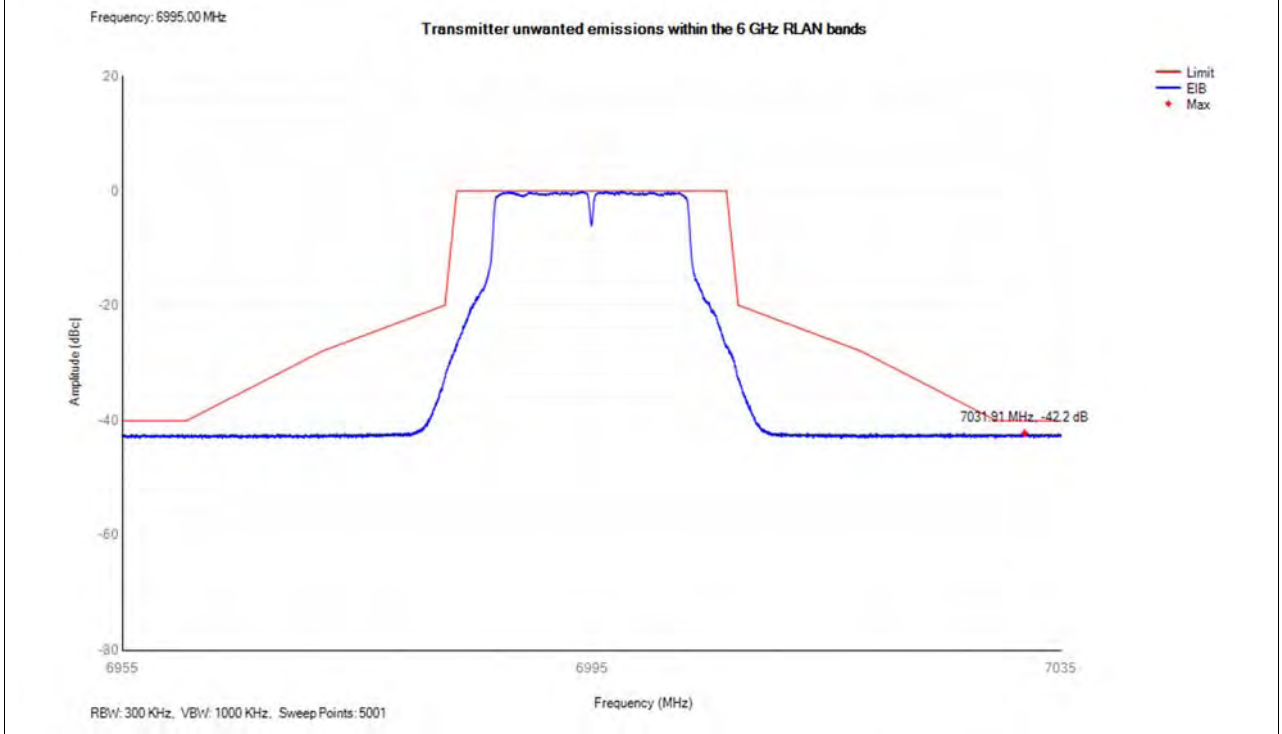
Power spectral mask NVNT a 6875MHz SISO



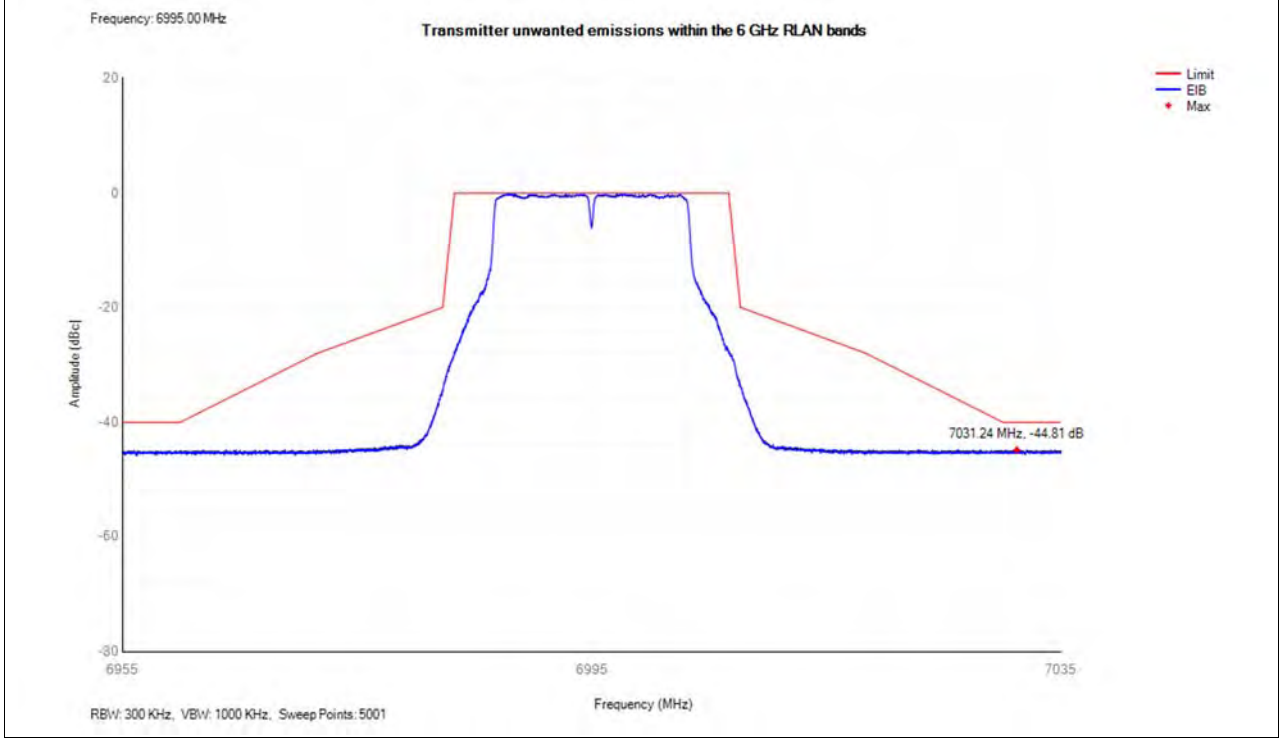
Power spectral mask NVNT a 6875MHz SISO



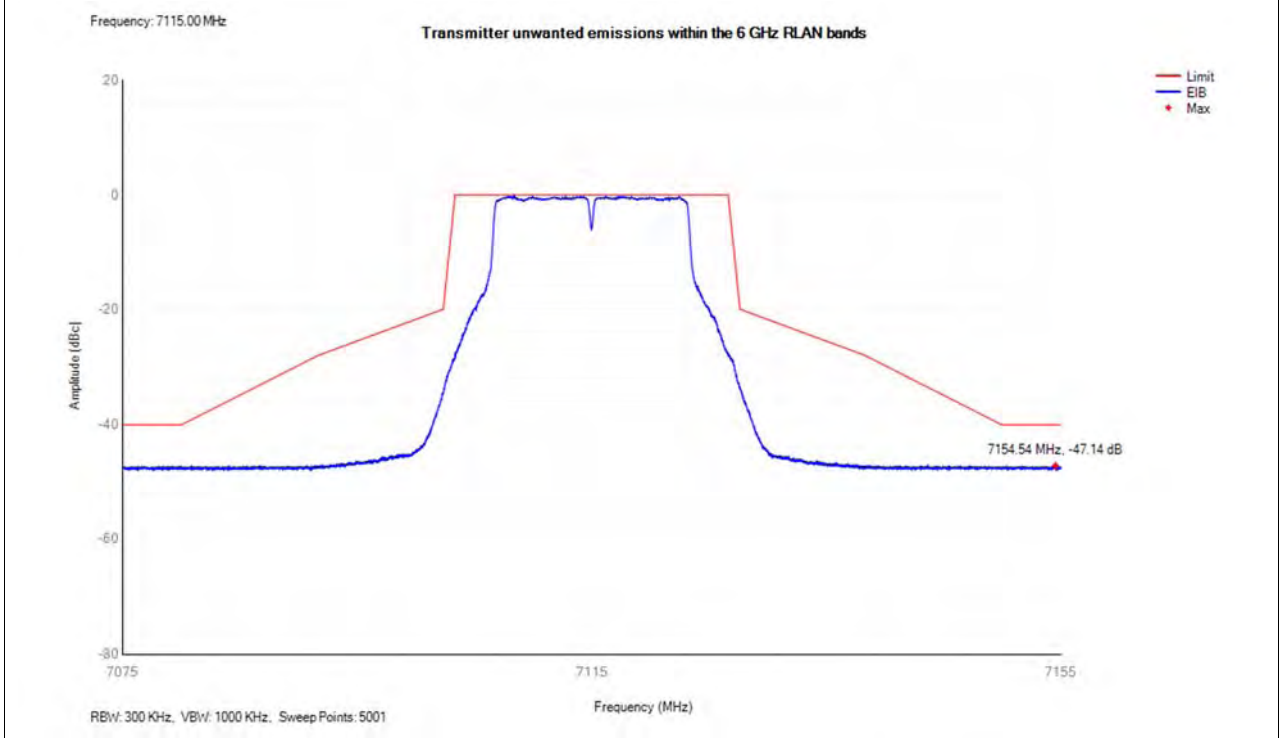
Power spectral mask NVNT a 6995MHz SISO



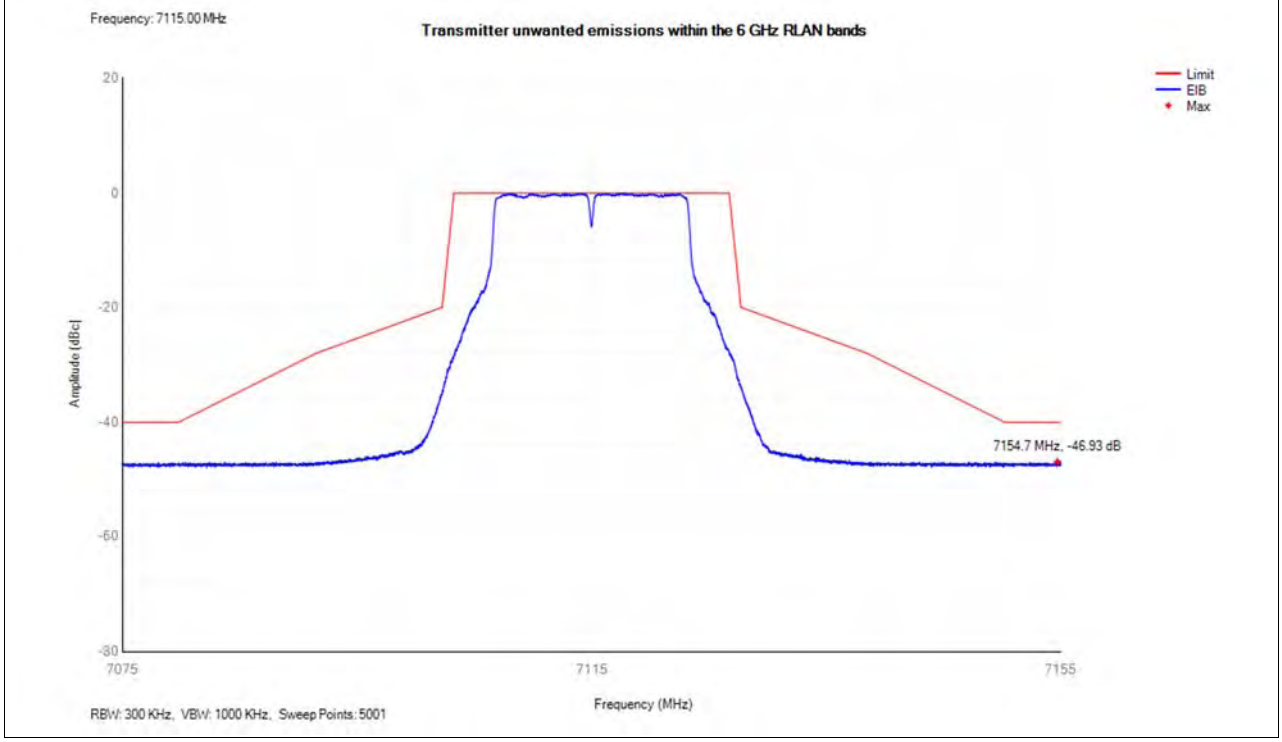
Power spectral mask NVNT a 6995MHz SISO



Power spectral mask NVNT a 7115MHz SISO



Power spectral mask NVNT a 7115MHz SISO



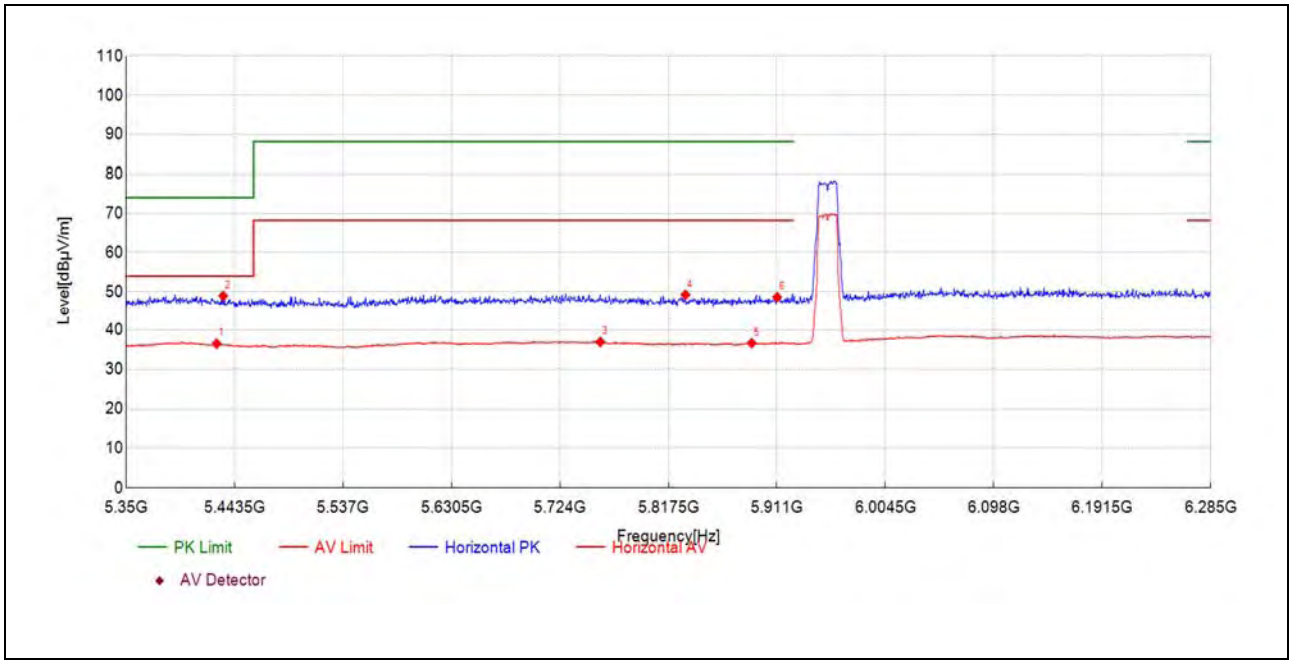
B.6.Restricted Frequency Bands

Note 1: Restricted Frequency Bands were performed when antenna was at vertical and horizontal polarity, and only the worse test condition (horizontal) was recorded in this test report.

Note 2: Restricted Frequency Bands were performed in X, Y, Z axis direction, and only the worst axis (X axis) test condition was recorded in this test report.

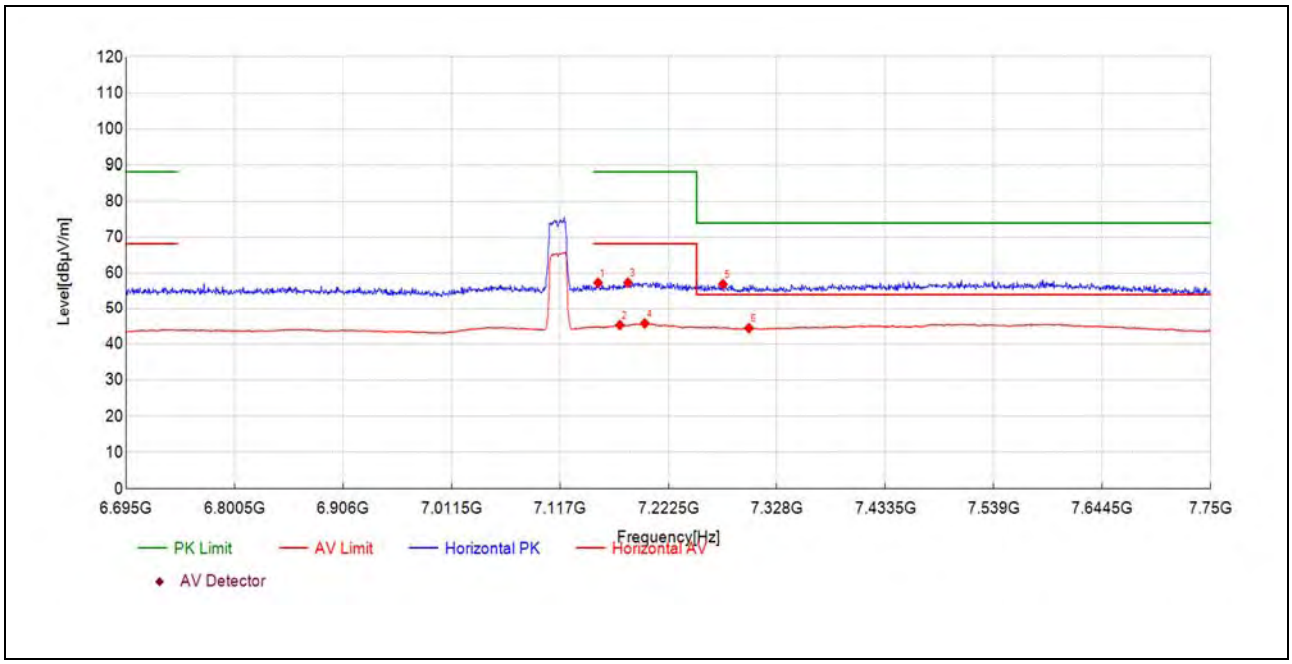
802.11a Mode

Plot for Channel 1



Fre. (MHz)	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
5428.11	21.2	36.55	15.340	54.00	17.45	150	70	AV	PASS
5433.72	33.7	48.96	15.270	74.00	25.04	150	96	PK	PASS
5758.80	20.8	36.99	16.240	68.23	31.24	150	53	AV	PASS
5832.23	33.3	49.23	15.980	88.23	39.00	150	198	PK	PASS
5889.30	20.6	36.68	16.110	68.23	31.55	150	23	AV	PASS
5911.28	32.4	48.64	16.240	88.23	39.59	150	88	PK	PASS

Plot for Channel 233



Fre. (MHz)	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
7154.15	34.7	57.33	22.600	88.23	30.90	150	57	PK	PASS
7175.27	22.4	45.29	22.880	68.23	22.94	150	255	AV	PASS
7183.18	34.4	57.37	22.990	88.23	30.86	150	274	PK	PASS
7199.54	22.6	45.76	23.210	68.23	22.47	150	307	AV	PASS
7275.54	34.7	56.94	22.270	74.00	17.06	150	340	PK	PASS
7300.87	22.3	44.44	22.130	54.00	9.56	150	120	AV	PASS

B.7.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 a 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 (X 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 40GHz, was pre-scanned and the result which was 20dB lower than the limit was not recorded.

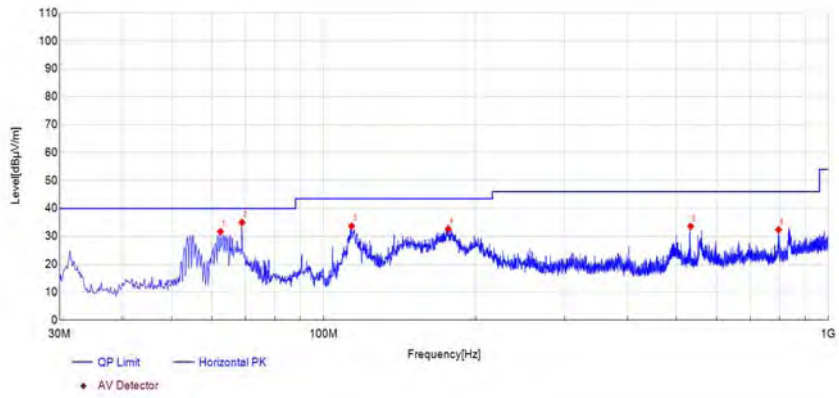
Field strength of fundamental:

Frequency (MHz)	Reading_Peak (dBμV/m)	Antenna Factor (dB)	Path Loss (dB)	Final_Peak (dBμV/m)	Antenna Polarity
6181.00	68.59	32.20	-19.57	81.22	Horizontal

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

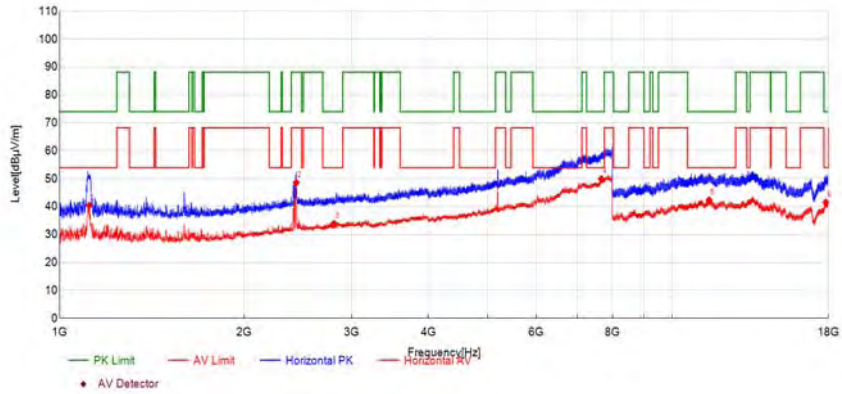
802.11a Mode

Plot for Channel 45



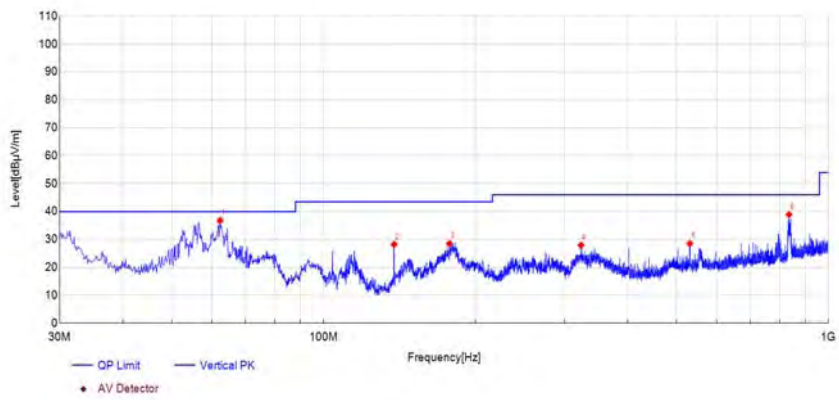
Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Polarity	Verdict
62.50	60.4	31.66	-28.780	40.00	Horizontal	PASS
68.92	65.8	35.00	-30.820	40.00	Horizontal	PASS
113.66	63.1	33.66	-29.460	43.50	Horizontal	PASS
176.59	63.2	32.67	-30.560	43.50	Horizontal	PASS
533.31	52.6	33.55	-19.030	46.00	Horizontal	PASS
796.54	46.7	32.38	-14.280	46.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 1GHz)



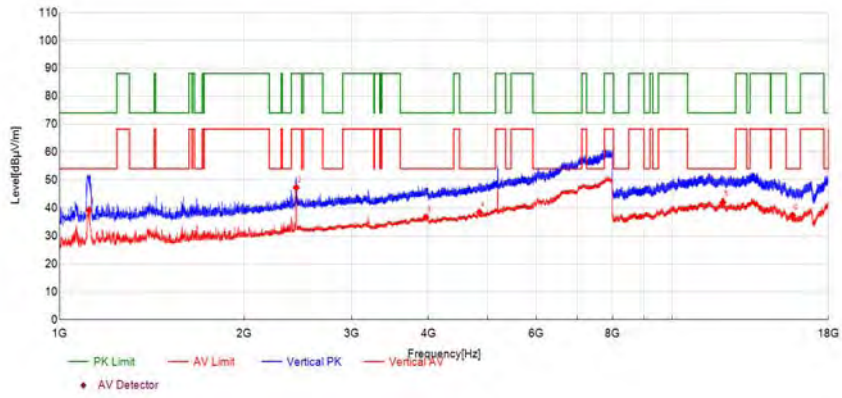
Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Polarity	Verdict
1118.54	42.5	40.47	-2.010	54.00	Horizontal	PASS
2434.63	42.6	48.64	6.080	68.23	Horizontal	PASS
2804.72	26.8	33.99	7.200	54.00	Horizontal	PASS
7664.44	23.9	49.97	26.040	54.00	Horizontal	PASS
11493.98	28.1	42.33	14.260	54.00	Horizontal	PASS
17825.23	22.1	41.55	19.440	54.00	Horizontal	PASS

(Antenna Horizontal, 1GHz to 18GHz)



Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Polarity	Verdict
62.37	65.5	36.79	-28.720	40.00	Vertical	PASS
137.91	60.4	28.23	-32.140	43.50	Vertical	PASS
177.56	59.3	28.53	-30.730	43.50	Vertical	PASS
323.55	52.7	27.91	-24.760	46.00	Vertical	PASS
531.37	47.5	28.52	-18.940	46.00	Vertical	PASS
835.59	52.7	38.94	-13.780	46.00	Vertical	PASS

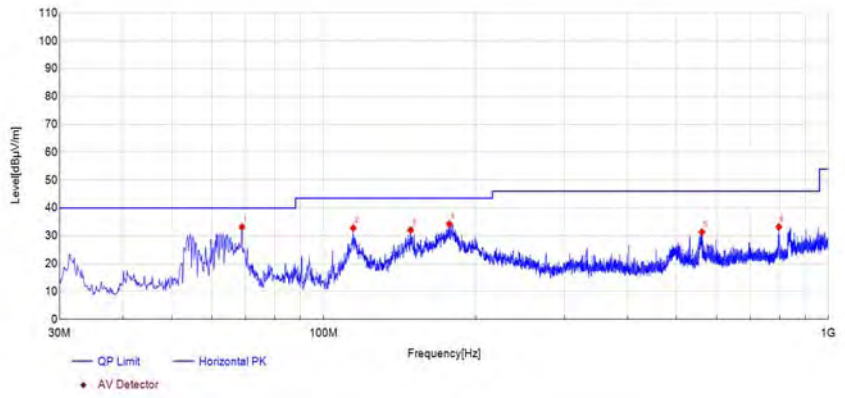
(Antenna Vertical, 30MHz to 1GHz)



Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Polarity	Verdict
1117.61	41.4	39.38	-2.010	54.00	Vertical	PASS
2434.16	41.1	47.19	6.080	68.23	Vertical	PASS
3963.06	24.8	36.87	12.090	54.00	Vertical	PASS
4847.46	23.7	38.58	14.850	54.00	Vertical	PASS
12107.34	27.6	42.17	14.570	54.00	Vertical	PASS
15735.61	24.2	37.45	13.240	54.00	Vertical	PASS

(Antenna Vertical, 1GHz to 18GHz)

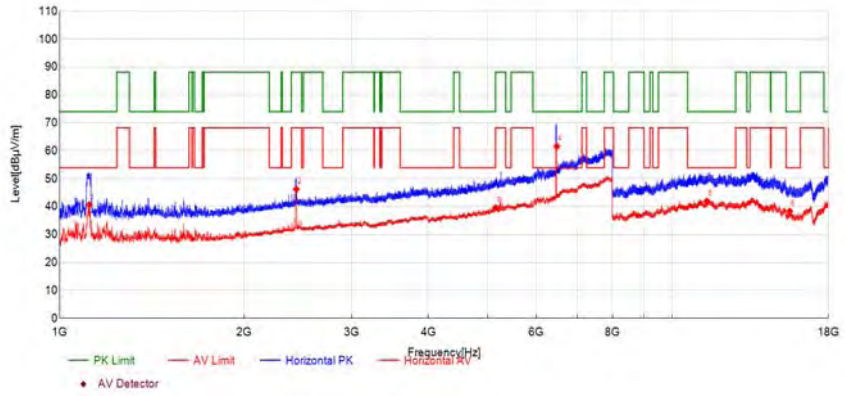
Plot for Channel 105



Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Polarity	Verdict
68.92	64.0	33.15	-30.820	40.00	Horizontal	PASS
114.51	62.7	32.78	-29.890	43.50	Horizontal	PASS
148.70	63.9	32.04	-31.810	43.50	Horizontal	PASS
177.44	64.9	34.26	-30.650	43.50	Horizontal	PASS
561.68	49.9	31.34	-18.530	46.00	Horizontal	PASS
797.51	47.6	33.19	-14.420	46.00	Horizontal	PASS

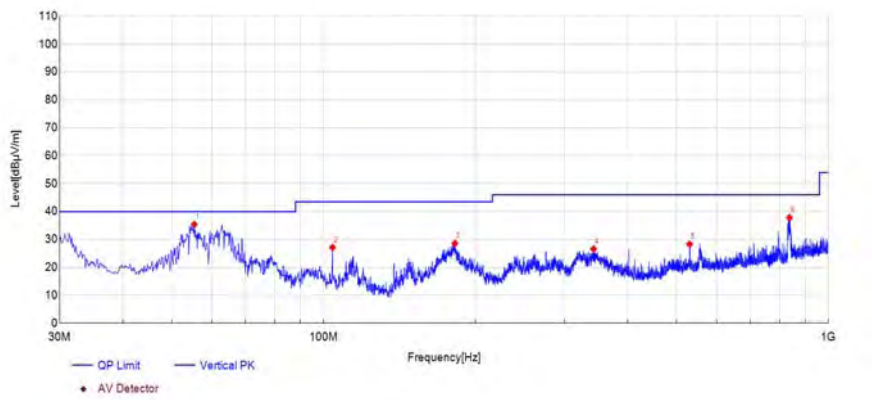
B.

(Antenna Horizontal, 30MHz to 1GHz)



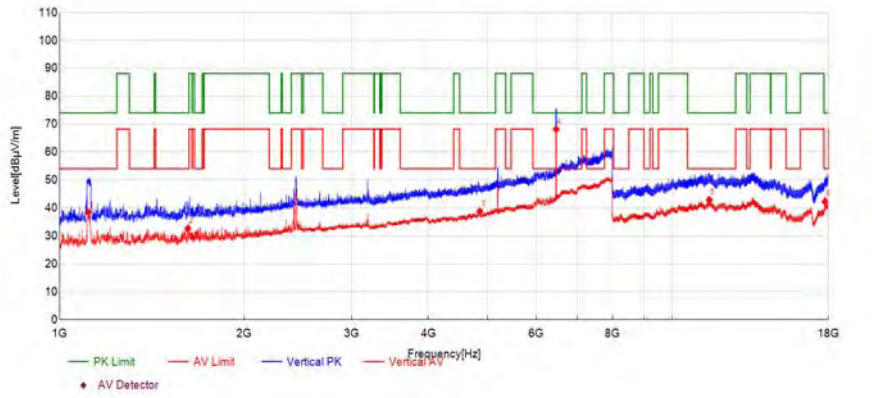
Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Polarity	Verdict
1118.54	42.7	40.68	-2.010	54.00	Horizontal	PASS
2434.16	40.2	46.25	6.080	68.23	Horizontal	PASS
5146.14	22.7	39.55	16.890	54.00	Horizontal	PASS
6482.30	39.6	61.62	22.010	-	Horizontal	N/A
11393.02	27.8	41.95	14.110	54.00	Horizontal	PASS
15559.41	25.1	38.36	13.240	54.00	Horizontal	PASS

(Antenna Horizontal, 1GHz to 18GHz)



Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Polarity	Verdict
55.46	63.3	35.39	-27.900	40.00	Vertical	PASS
104.21	56.7	27.12	-29.570	43.50	Vertical	PASS
182.05	58.8	28.58	-30.230	43.50	Vertical	PASS
342.58	50.8	26.61	-24.190	46.00	Vertical	PASS
531.01	47.3	28.32	-18.930	46.00	Vertical	PASS
837.53	51.7	37.81	-13.910	46.00	Vertical	PASS

(Antenna Vertical, 30MHz to 1GHz)



Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Polarity	Verdict
1113.41	40.8	38.71	-2.050	54.00	Vertical	PASS
1619.77	32.7	32.73	-0.010	54.00	Vertical	PASS
4854.92	24.1	38.95	14.850	54.00	Vertical	PASS
6467.83	46.3	68.16	21.890	-	Vertical	N/A
11502.07	28.6	42.86	14.270	54.00	Vertical	PASS
17772.37	23.7	42.39	18.710	54.00	Vertical	PASS

(Antenna Vertical, 1GHz to 18GHz)