PSD NVNT ax40 52@37 5310MHz Ant2

PSD NVNT ax40 52@37 5510MHz Ant2

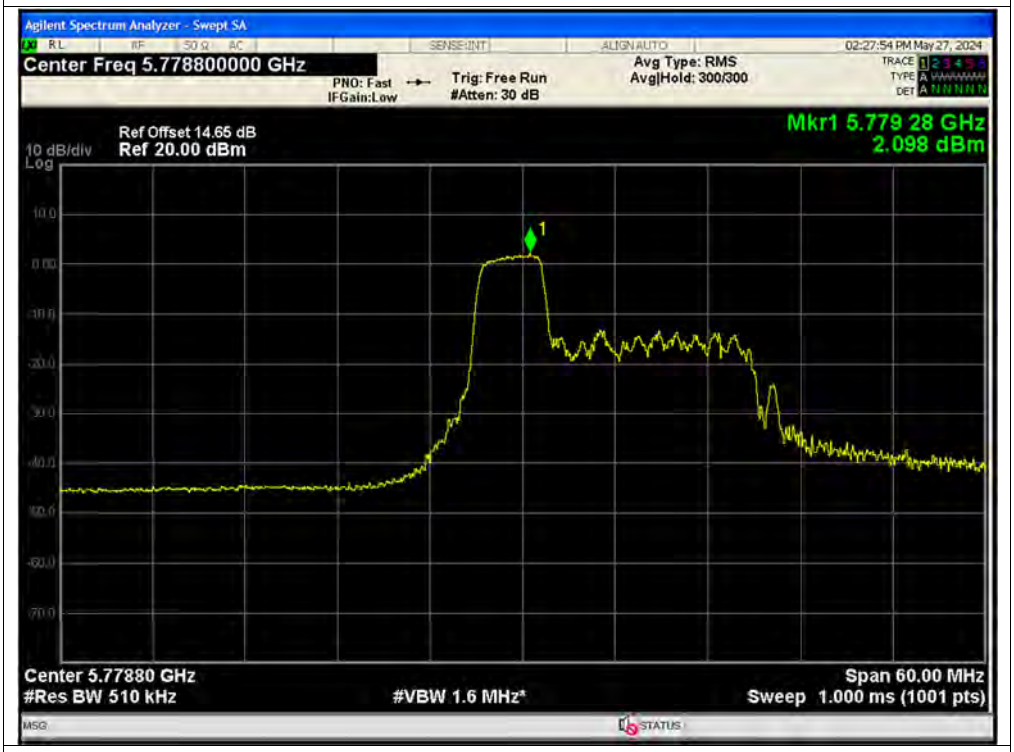
PSD NVNT ax40 52@37 5550MHz Ant2

PSD NVNT ax40 52@37 5630MHz Ant2

PSD NVNT ax40 52@37 5710MHz Ant2

PSD NVNT ax40 52@37 5755MHz Ant2

PSD NVNT ax40 52@37 5795MHz Ant2



PSD NVNT ax40 106@53 5190MHz Ant1

PSD NVNT ax40 106@53 5230MHz Ant1

PSD NVNT ax40 106@53 5270MHz Ant1

PSD NVNT ax40 106@53 5310MHz Ant1

PSD NVNT ax40 106@53 5510MHz Ant1

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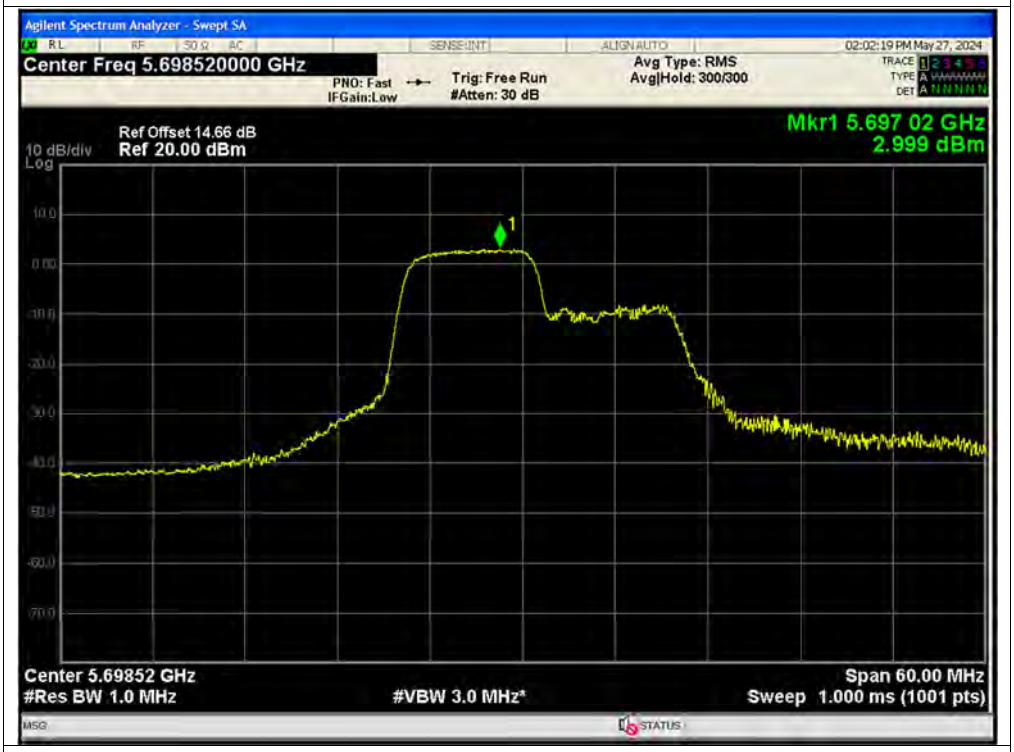
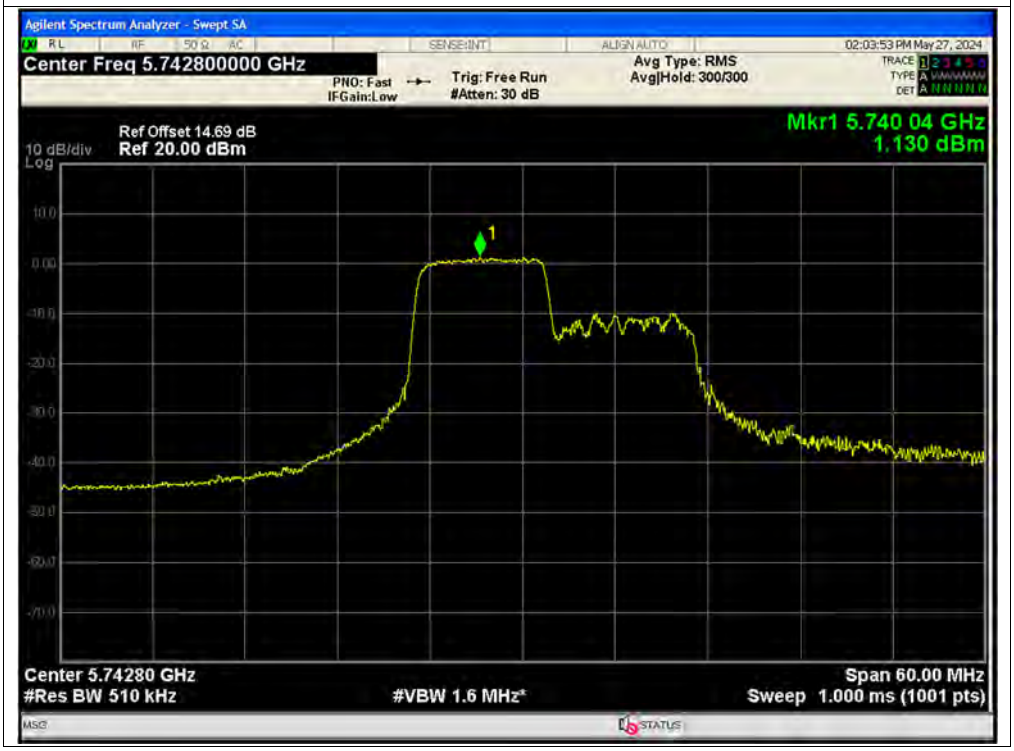
PSD NVNT ax40 106@53 5710MHz Ant1



PSD NVNT ax40 106@53 5755MHz Ant1



PSD NVNT ax40 106@53 5795MHz Ant1

PSD NVNT ax40 106@53 5190MHz Ant2

PSD NVNT ax40 106@53 5230MHz Ant2

PSD NVNT ax40 106@53 5270MHz Ant2

PSD NVNT ax40 106@53 5310MHz Ant2

PSD NVNT ax40 106@53 5510MHz Ant2

PSD NVNT ax40 106@53 5550MHz Ant2

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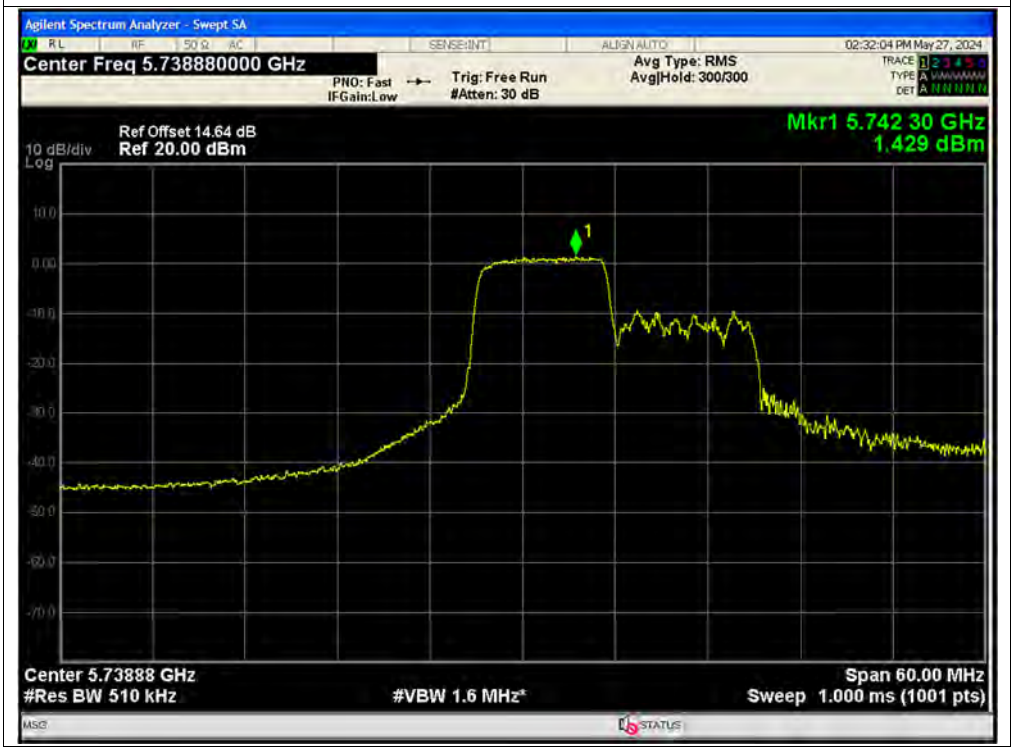


PSD NVNT ax40 106@53 5795MHz Ant2

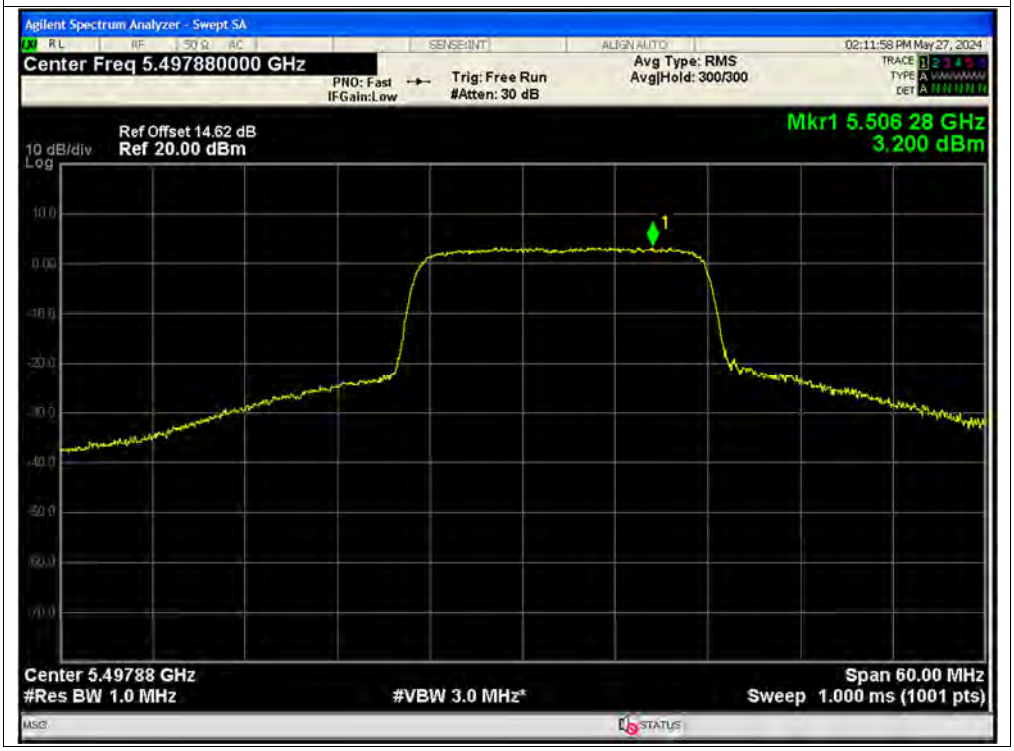
PSD NVNT ax40 242@61 5190MHz Ant1

PSD NVNT ax40 242@61 5230MHz Ant1

PSD NVNT ax40 242@61 5270MHz Ant1

PSD NVNT ax40 242@61 5310MHz Ant1

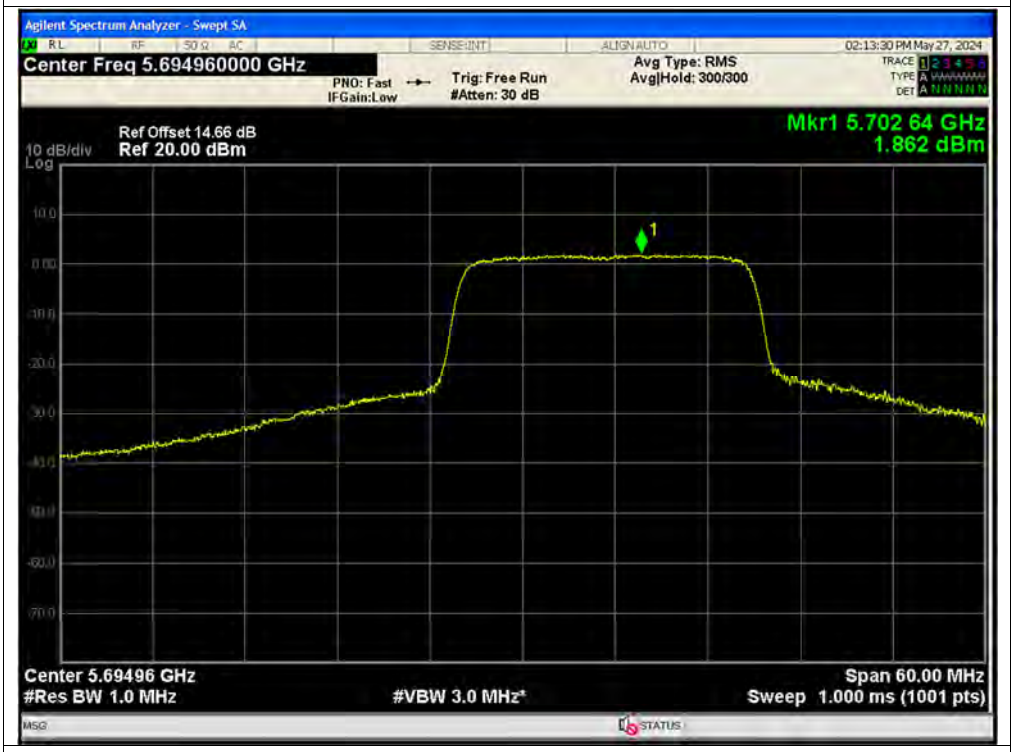
PSD NVNT ax40 242@61 5510MHz Ant1



PSD NVNT ax40 242@61 5550MHz Ant1

PSD NVNT ax40 242@61 5630MHz Ant1

PSD NVNT ax40 242@61 5710MHz Ant1



PSD NVNT ax40 242@61 5755MHz Ant1

PSD NVNT ax40 242@61 5795MHz Ant1

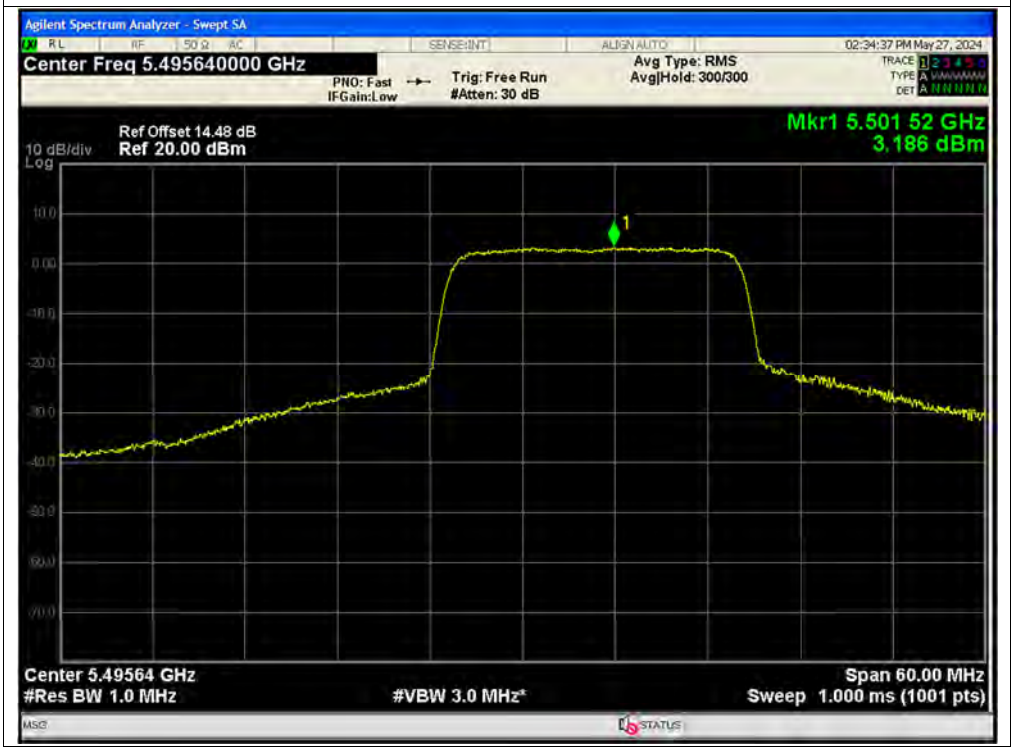
PSD NVNT ax40 242@61 5190MHz Ant2

PSD NVNT ax40 242@61 5230MHz Ant2

PSD NVNT ax40 242@61 5270MHz Ant2

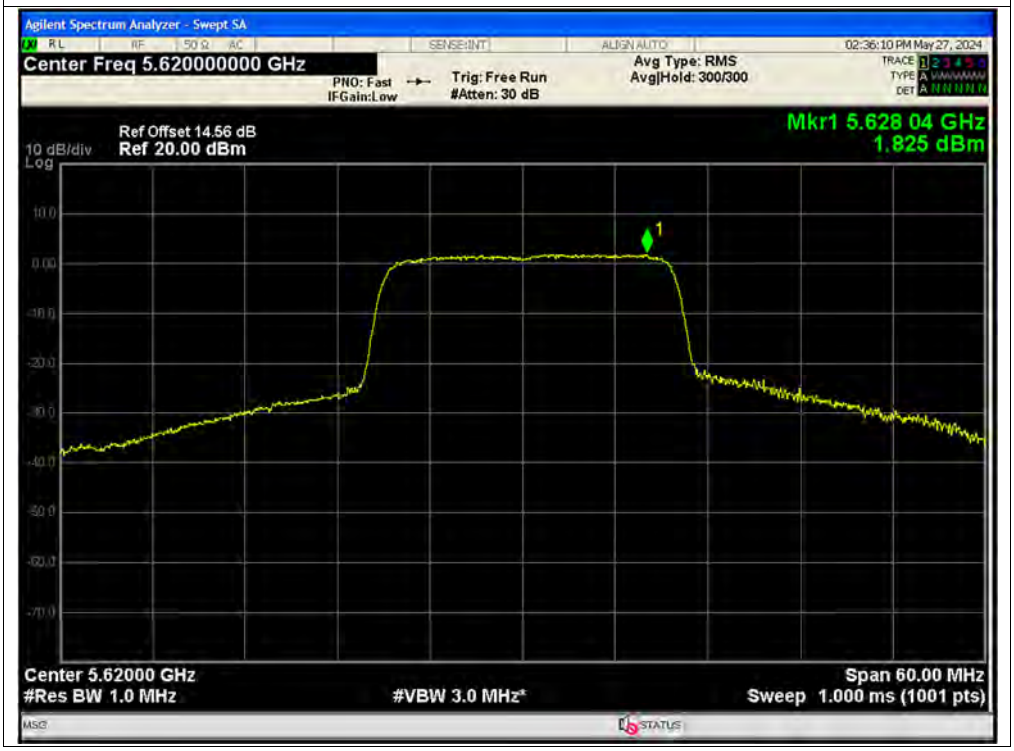
PSD NVNT ax40 242@61 5310MHz Ant2

PSD NVNT ax40 242@61 5510MHz Ant2

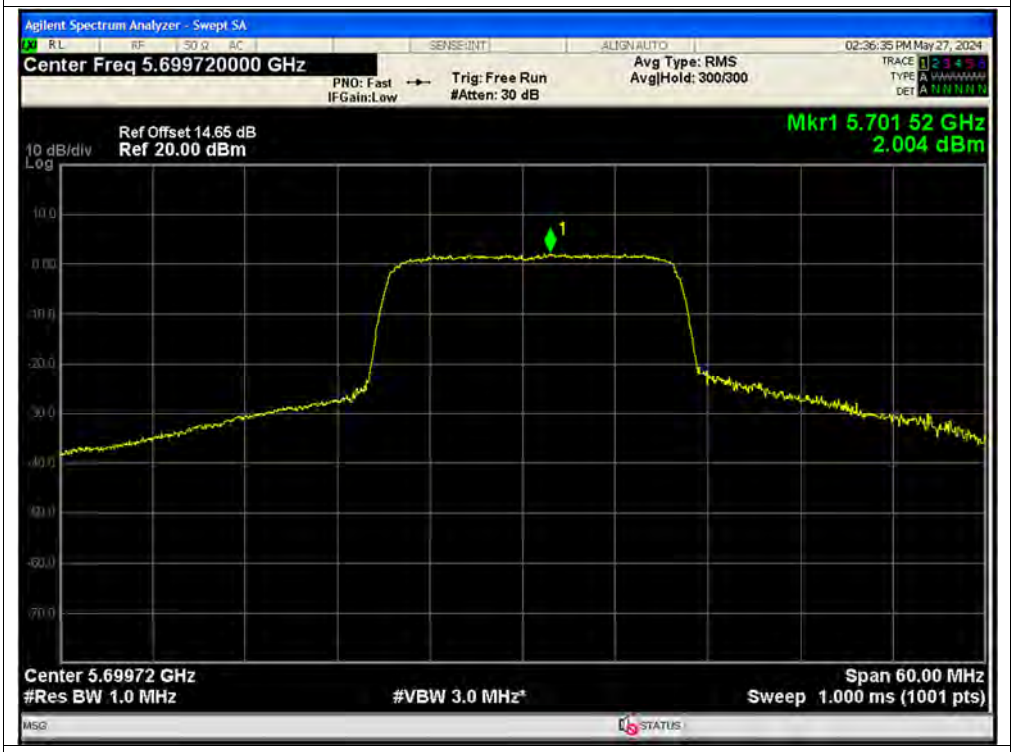


PSD NVNT ax40 242@61 5550MHz Ant2

PSD NVNT ax40 242@61 5630MHz Ant2



PSD NVNT ax40 242@61 5710MHz Ant2

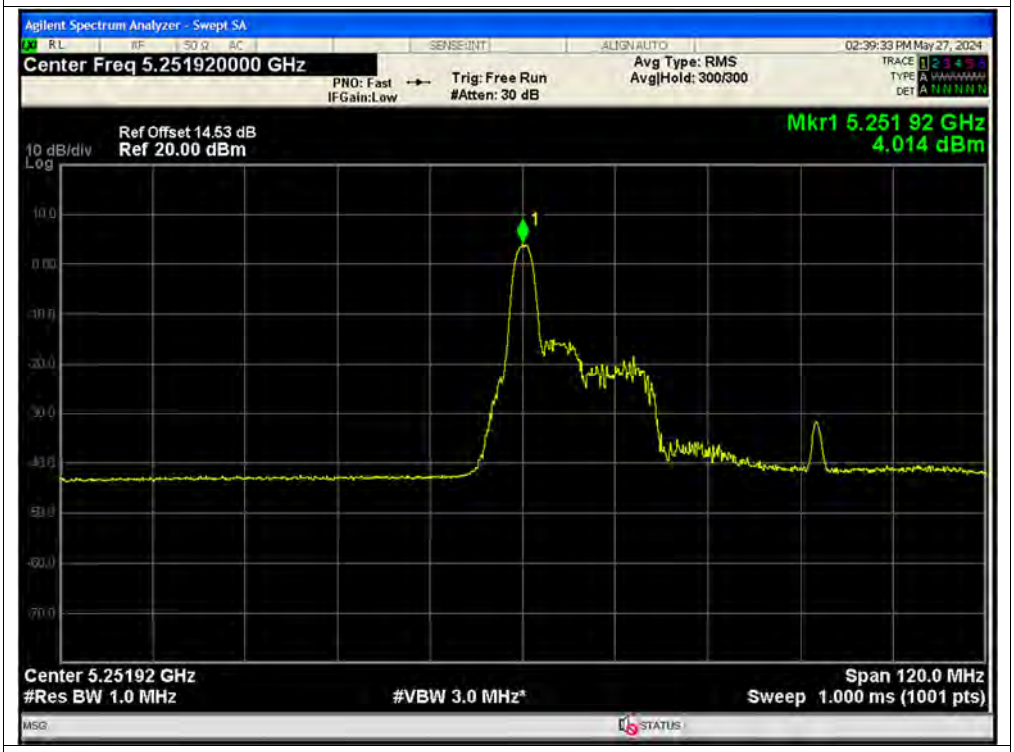


PSD NVNT ax40 242@61 5755MHz Ant2

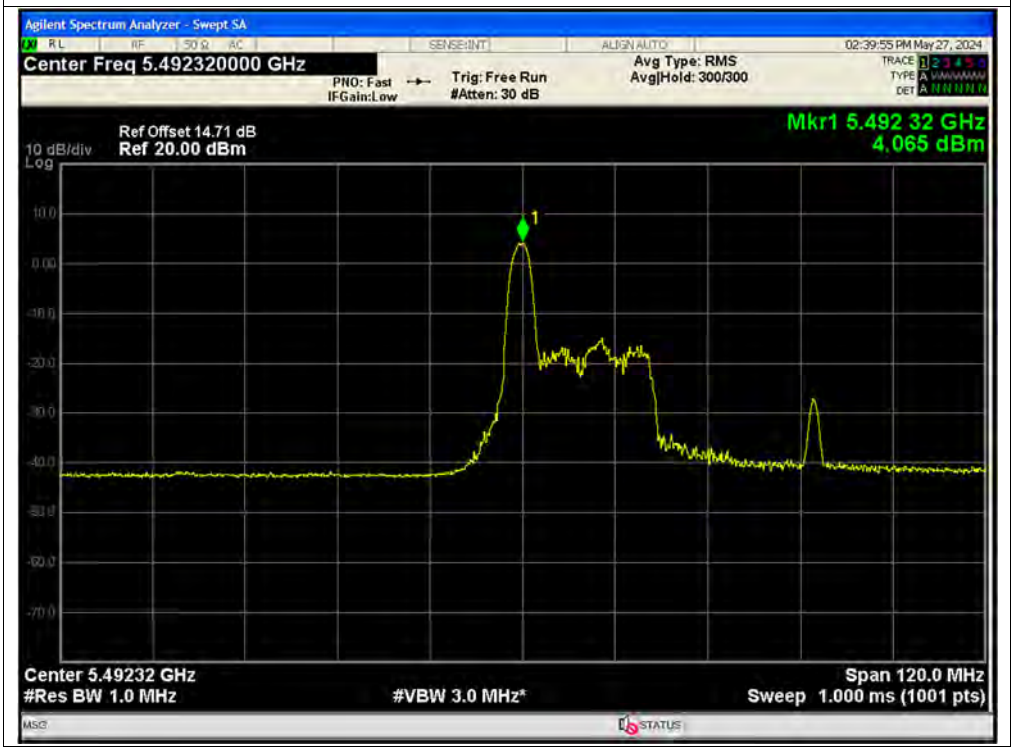
PSD NVNT ax40 242@61 5795MHz Ant2

PSD NVNT ax80 26@0 5210MHz Ant1

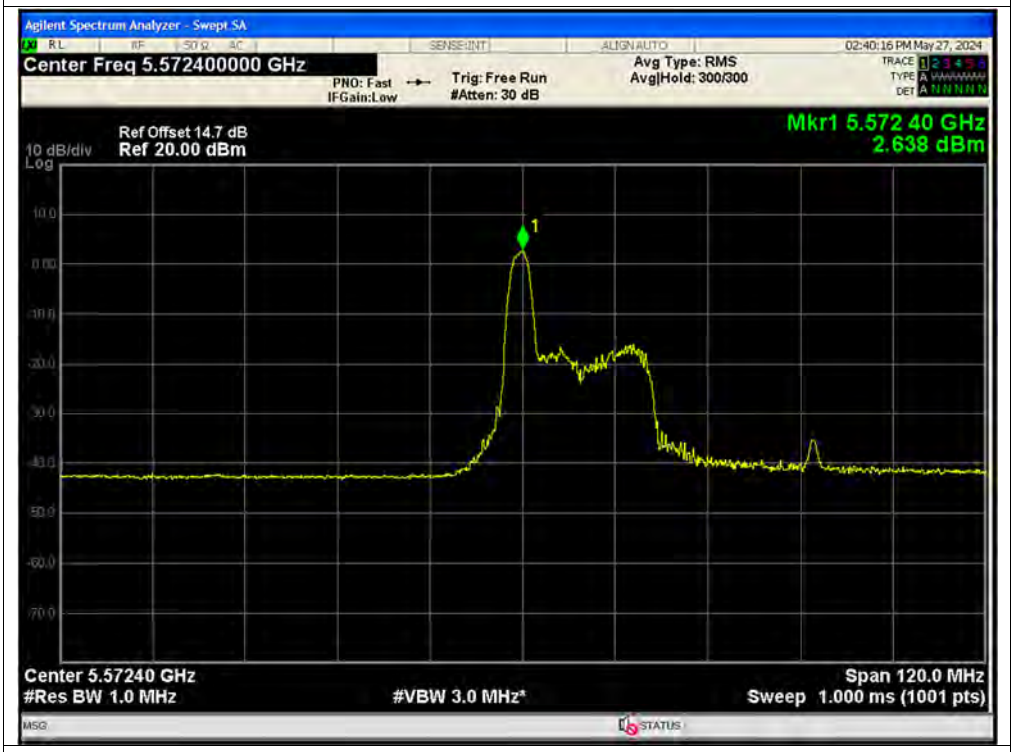
PSD NVNT ax80 26@0 5290MHz Ant1



PSD NVNT ax80 26@0 5530MHz Ant1

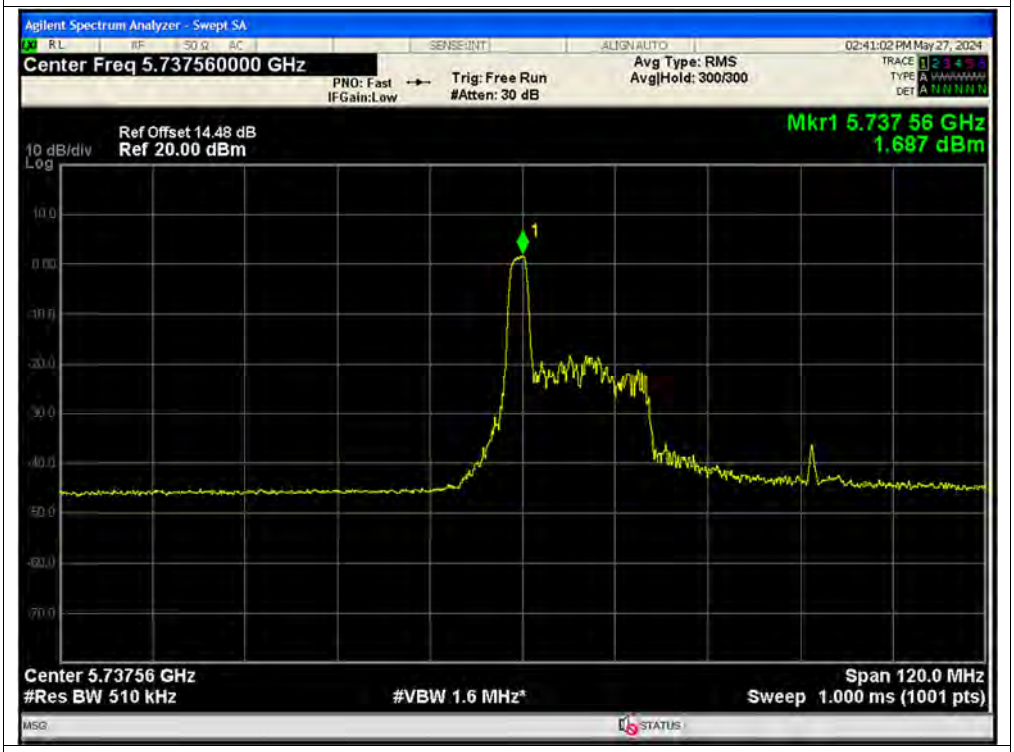


PSD NVNT ax80 26@0 5610MHz Ant1



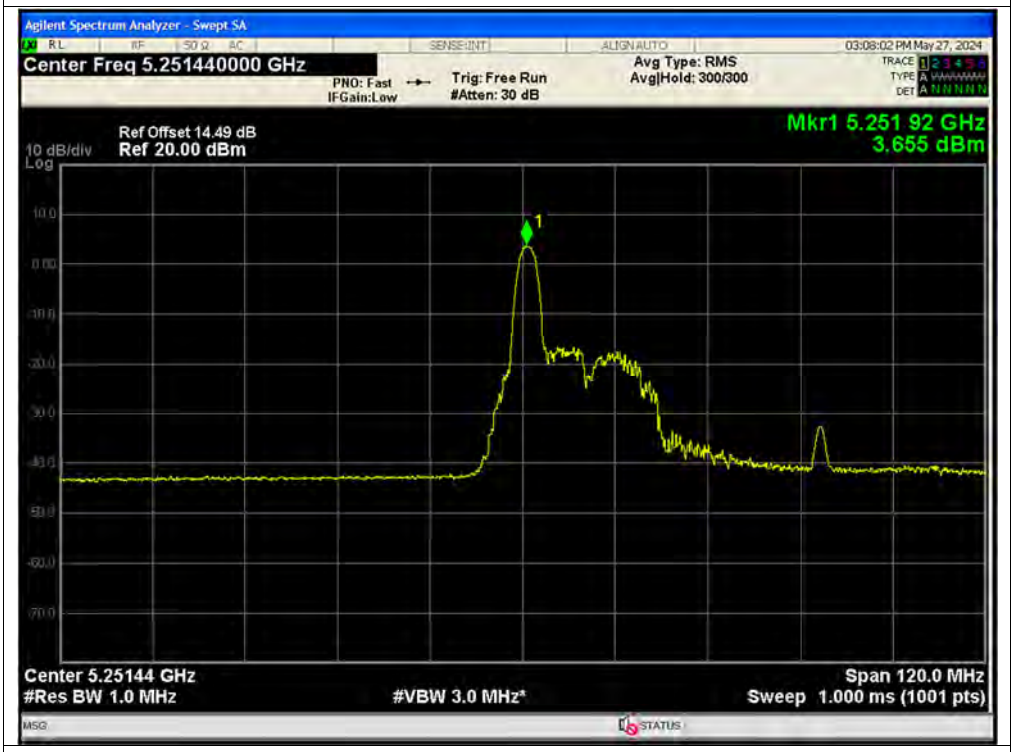
PSD NVNT ax80 26@0 5690MHz Ant1

PSD NVNT ax80 26@0 5775MHz Ant1



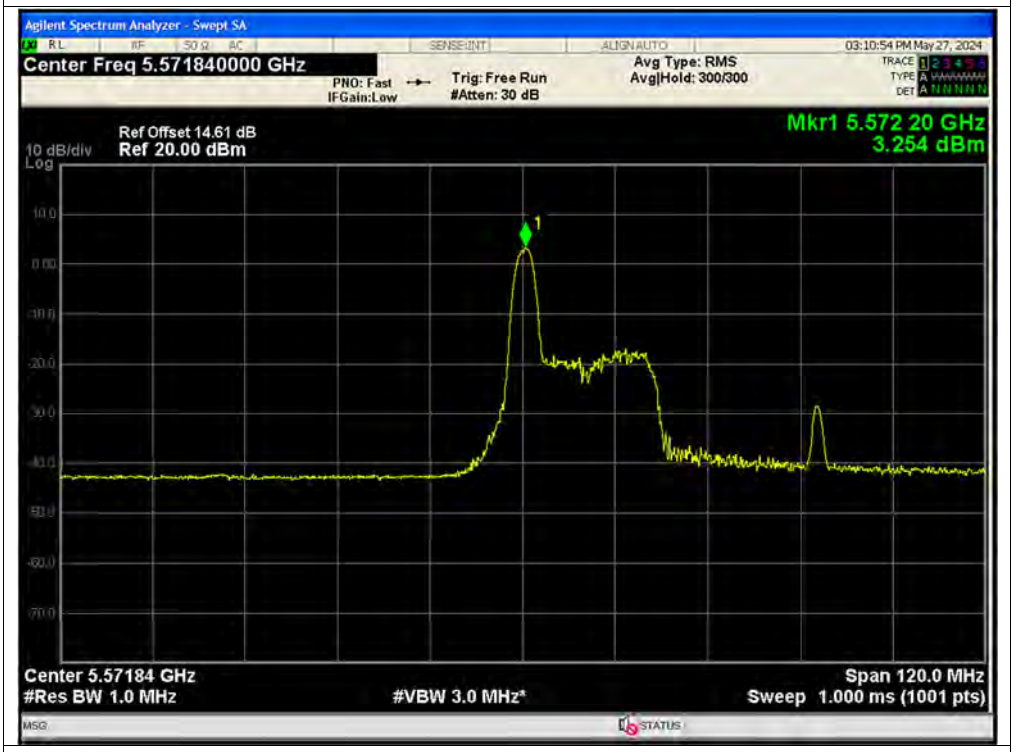
PSD NVNT ax80 26@0 5210MHz Ant2

PSD NVNT ax80 26@0 5290MHz Ant2



PSD NVNT ax80 26@0 5530MHz Ant2

PSD NVNT ax80 26@0 5610MHz Ant2

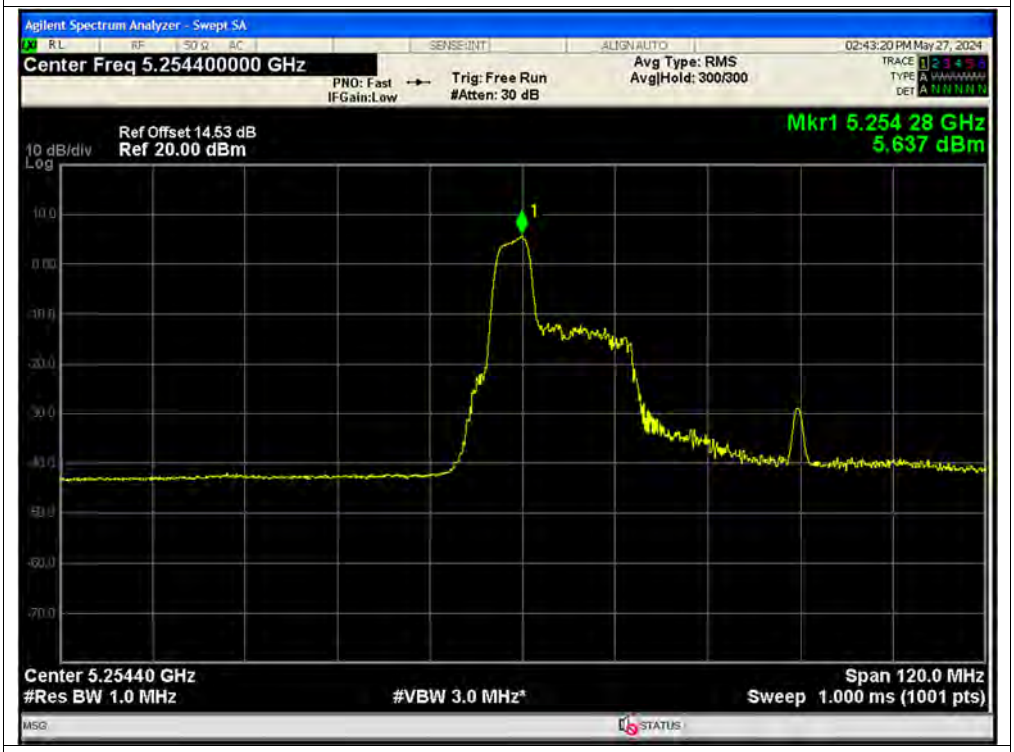


PSD NVNT ax80 26@0 5690MHz Ant2

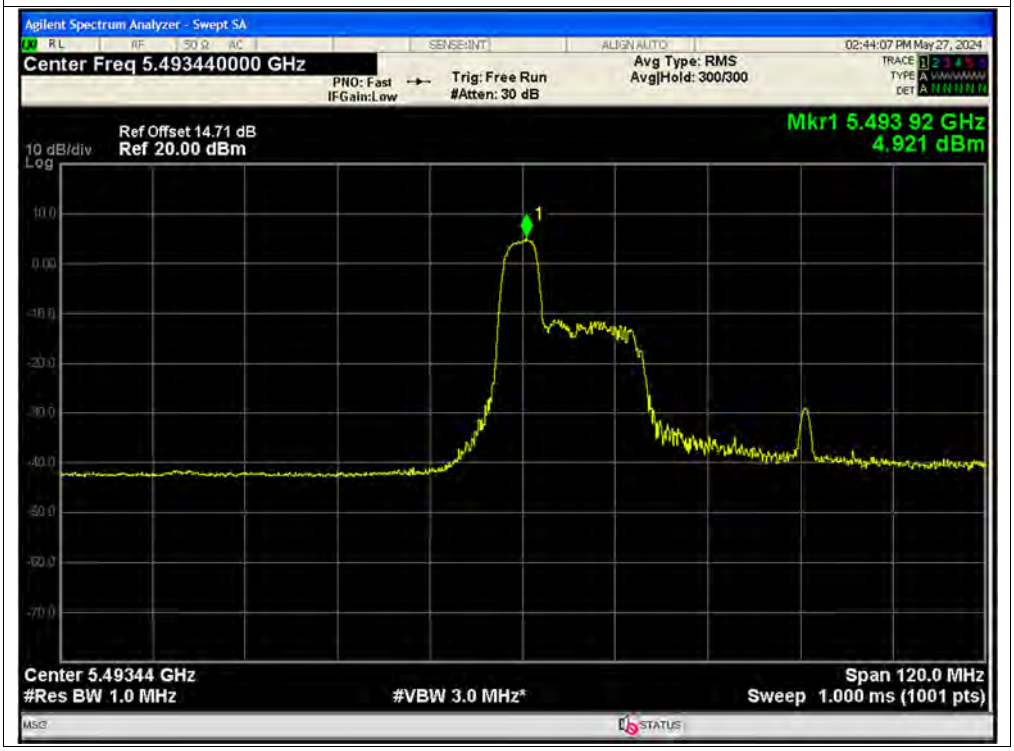
PSD NVNT ax80 26@0 5775MHz Ant2

PSD NVNT ax80 52@37 5210MHz Ant1

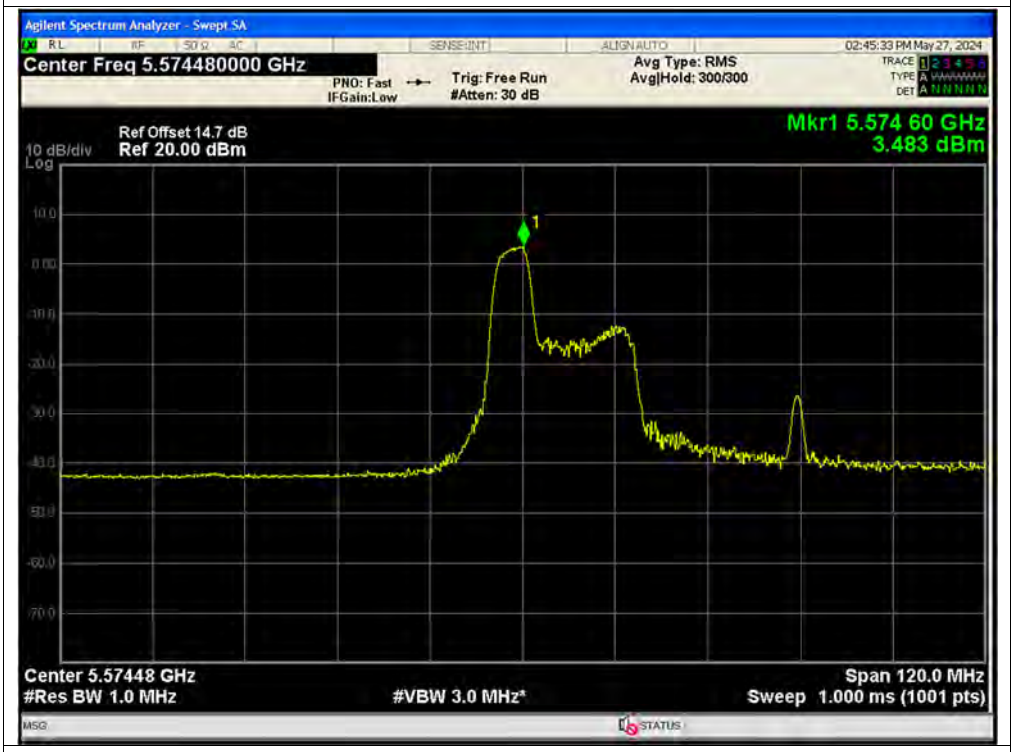
PSD NVNT ax80 52@37 5290MHz Ant1



PSD NVNT ax80 52@37 5530MHz Ant1

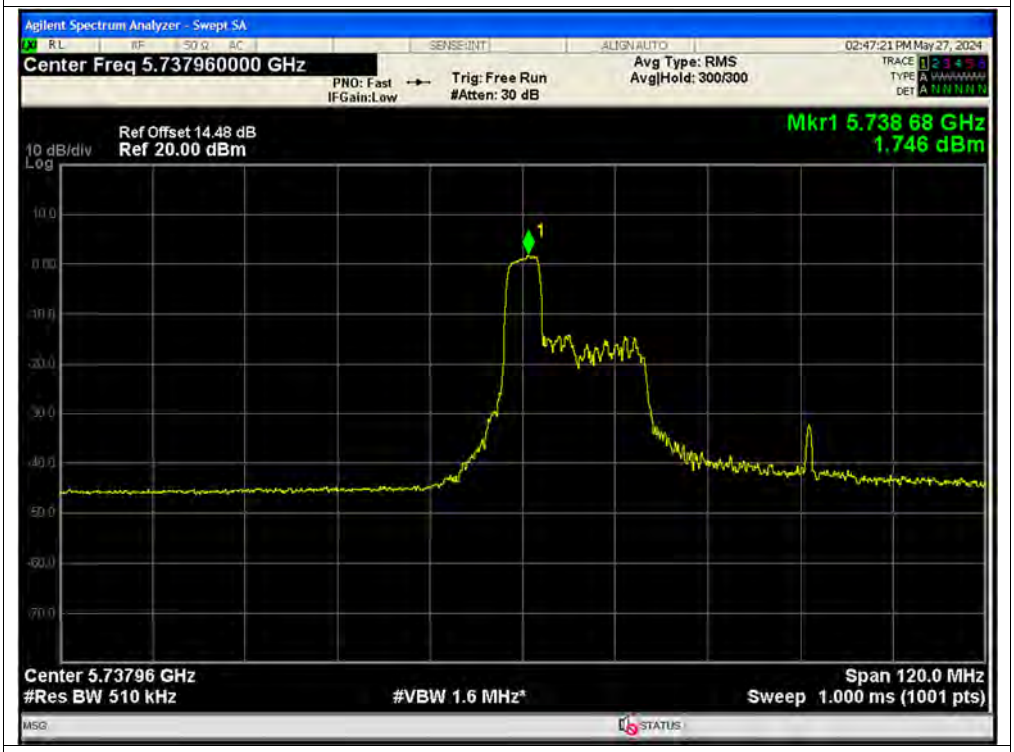


PSD NVNT ax80 52@37 5610MHz Ant1



PSD NVNT ax80 52@37 5690MHz Ant1

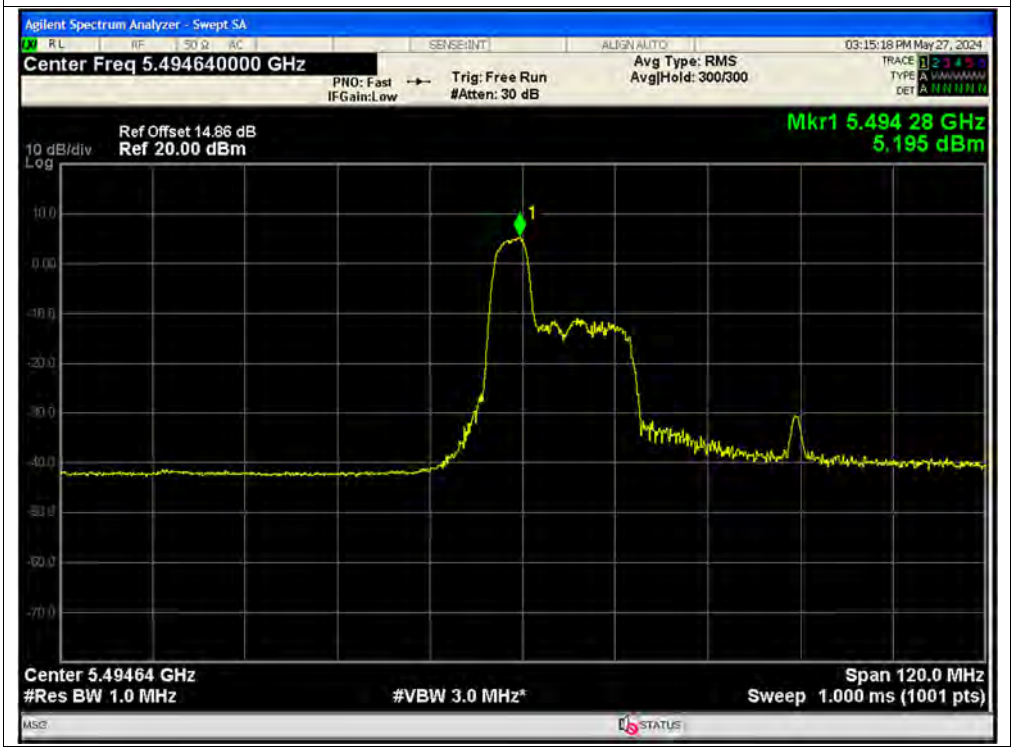
PSD NVNT ax80 52@37 5775MHz Ant1



PSD NVNT ax80 52@37 5210MHz Ant2

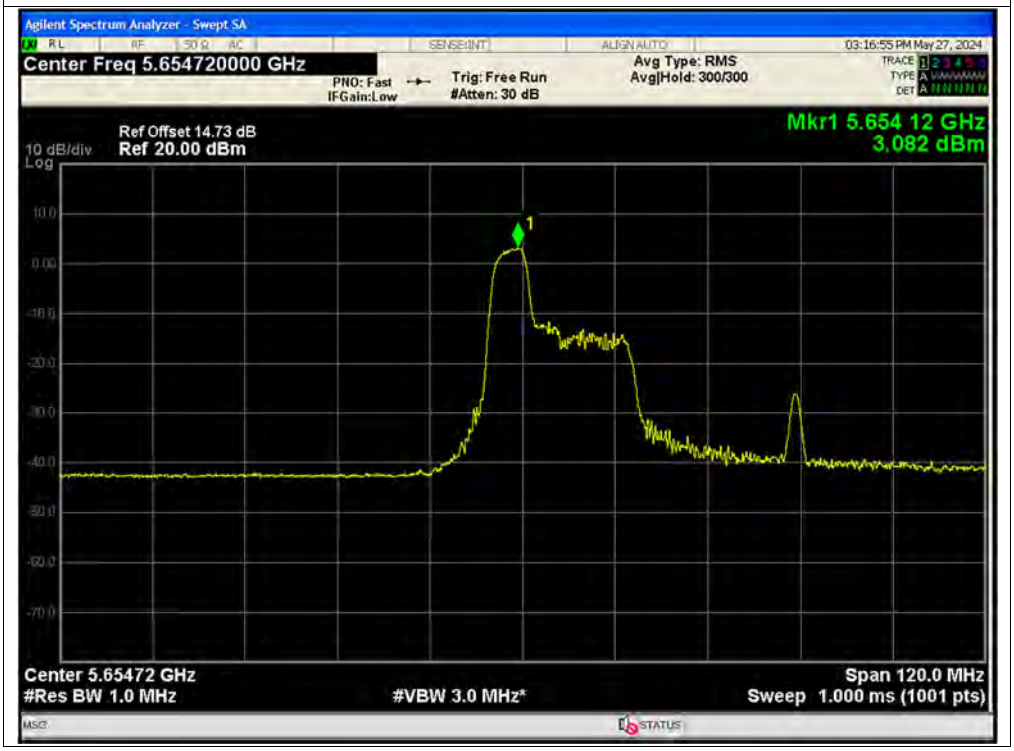
PSD NVNT ax80 52@37 5290MHz Ant2

PSD NVNT ax80 52@37 5530MHz Ant2



PSD NVNT ax80 52@37 5610MHz Ant2

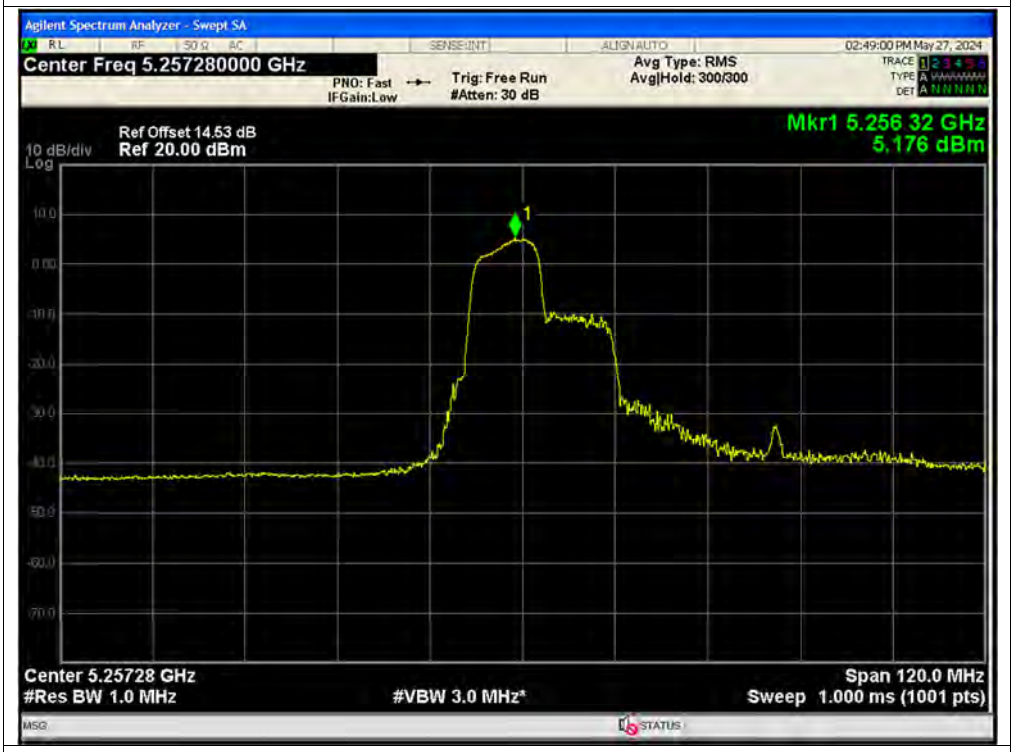
PSD NVNT ax80 52@37 5690MHz Ant2



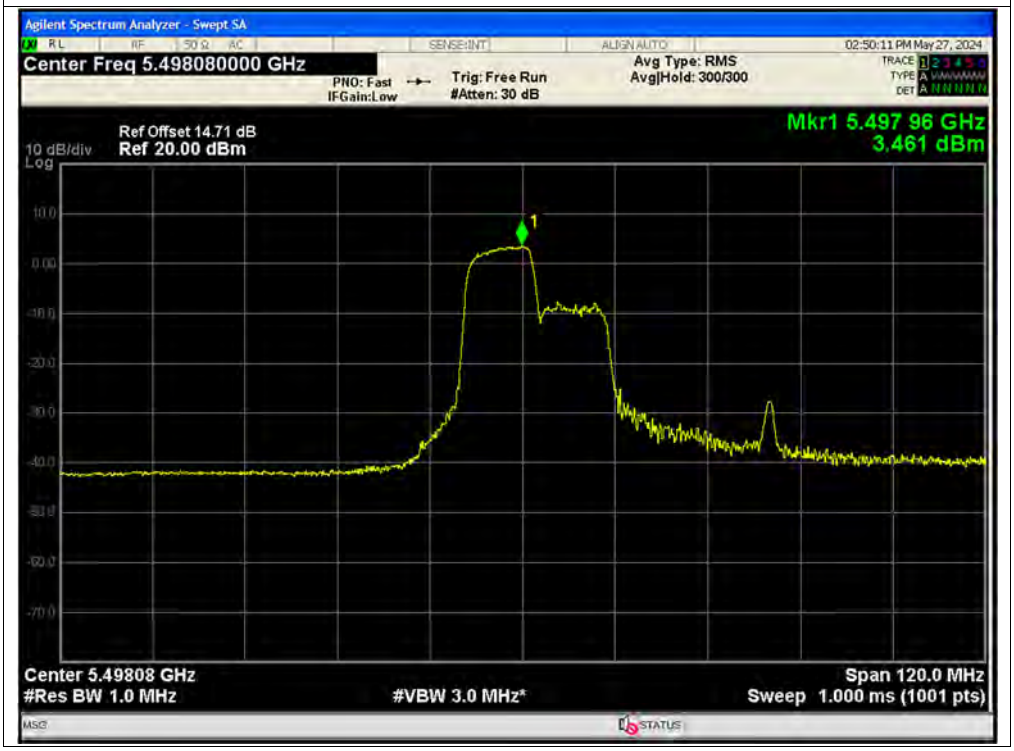
PSD NVNT ax80 52@37 5775MHz Ant2

PSD NVNT ax80 106@53 5210MHz Ant1

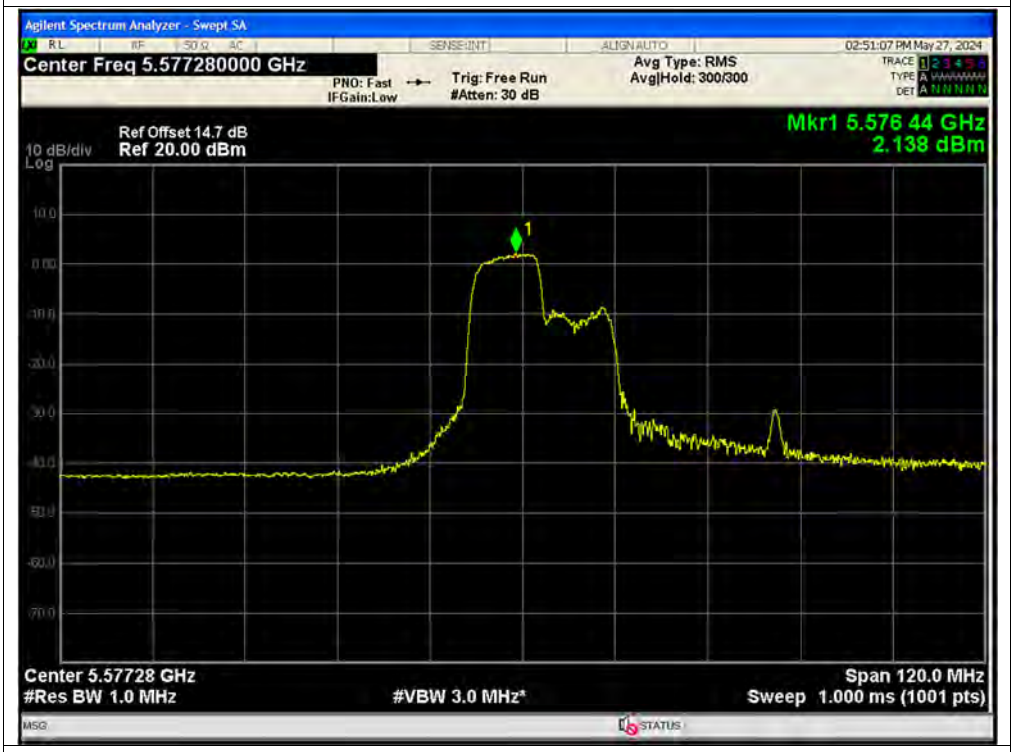
PSD NVNT ax80 106@53 5290MHz Ant1



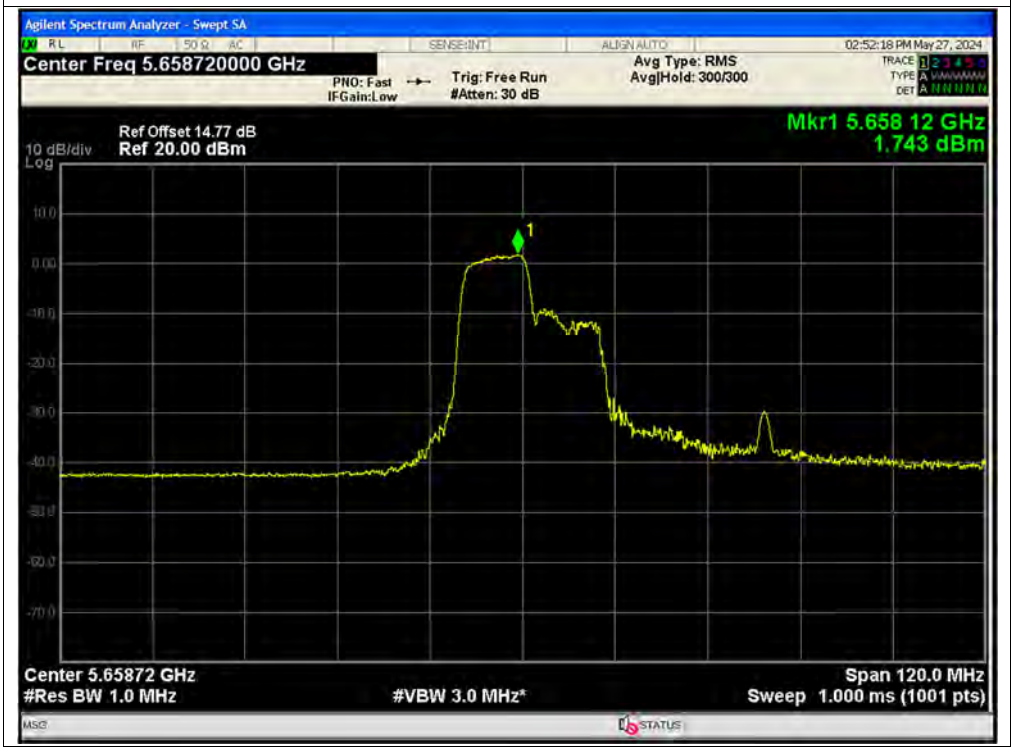
PSD NVNT ax80 106@53 5530MHz Ant1



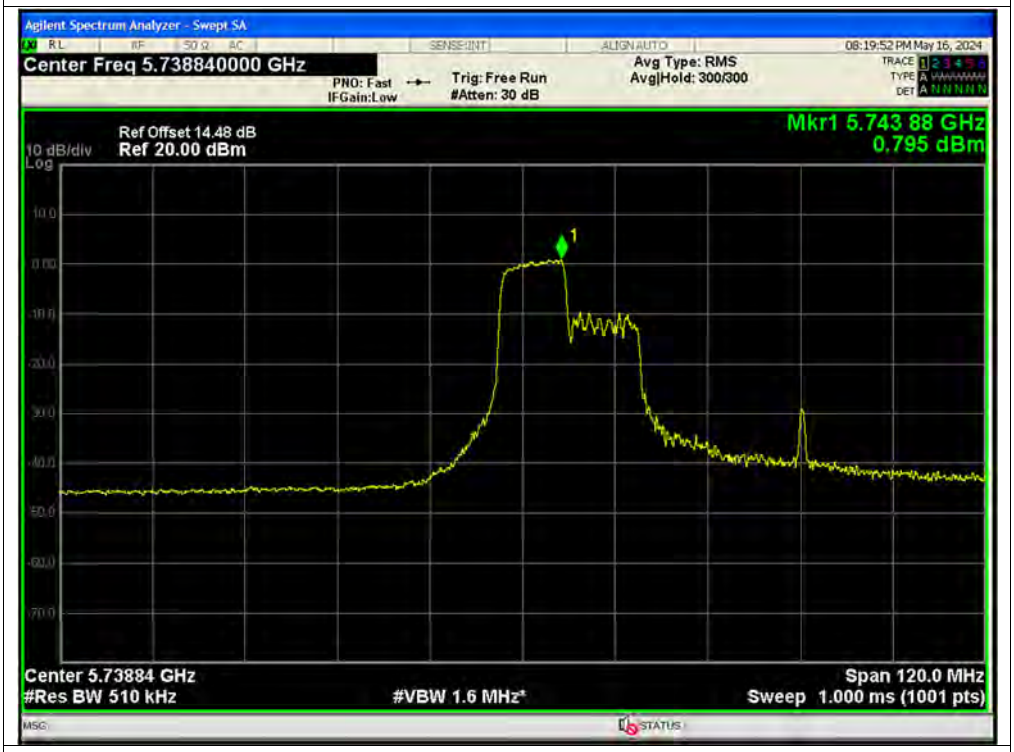
PSD NVNT ax80 106@53 5610MHz Ant1



PSD NVNT ax80 106@53 5690MHz Ant1

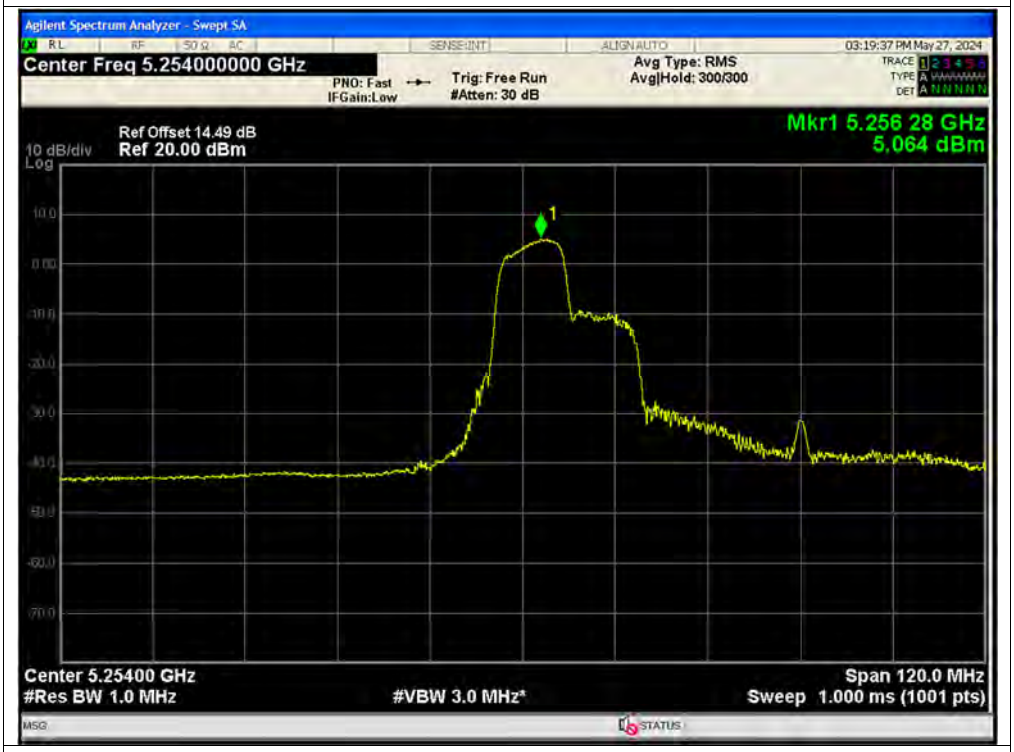


PSD NVNT ax80 106@53 5775MHz Ant1

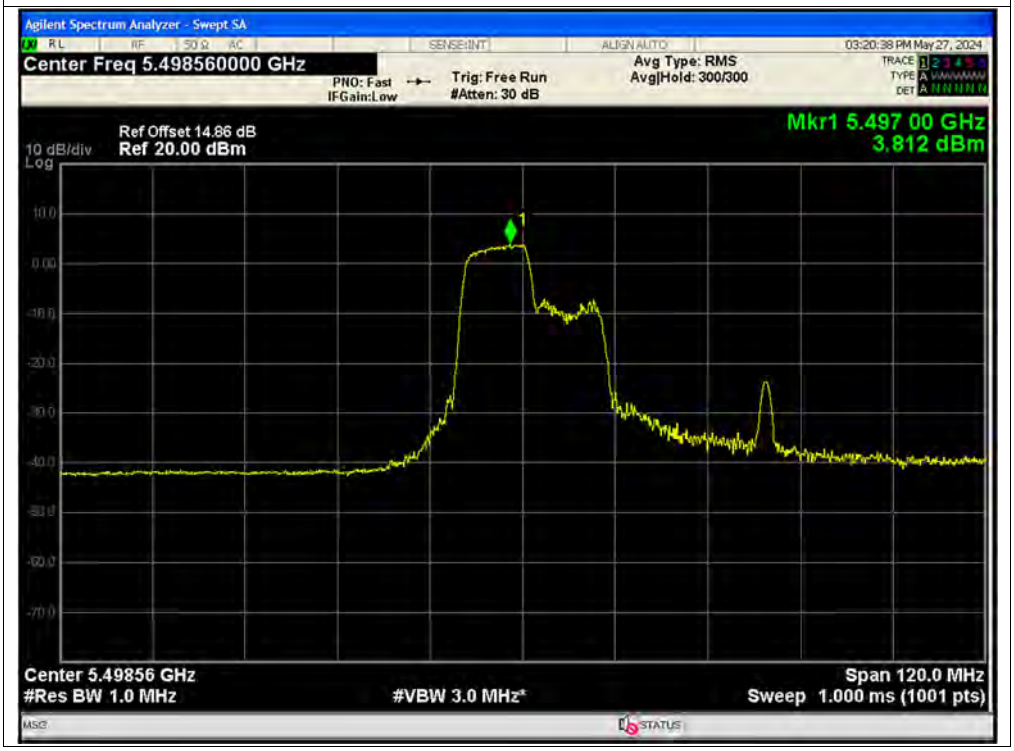


PSD NVNT ax80 106@53 5210MHz Ant2

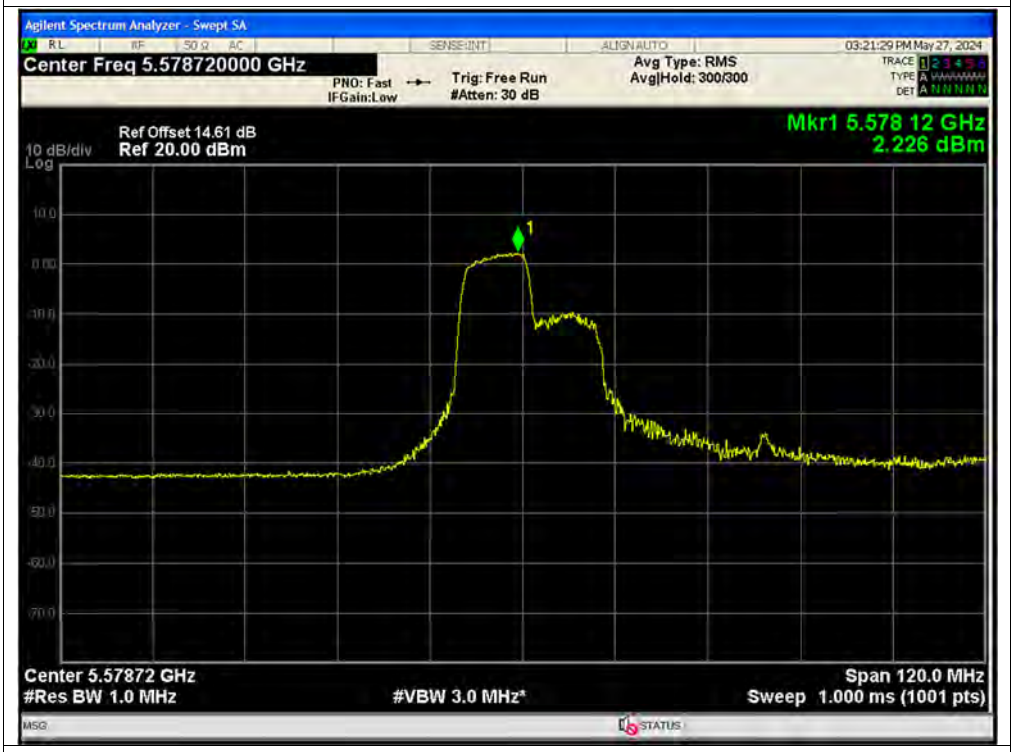
PSD NVNT ax80 106@53 5290MHz Ant2



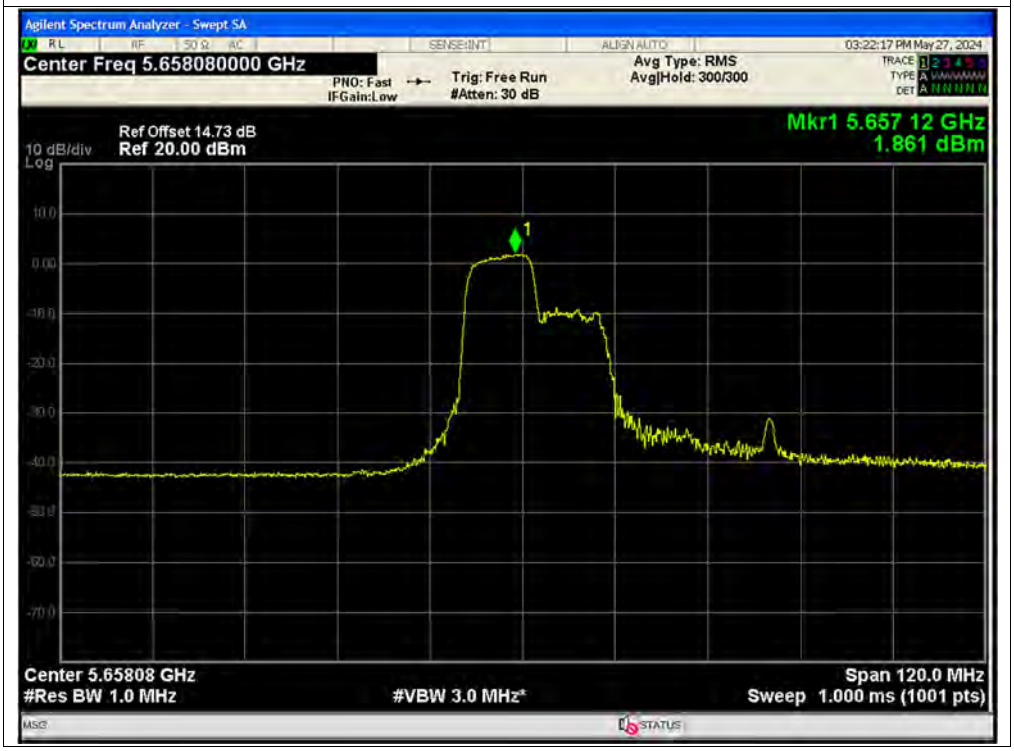
PSD NVNT ax80 106@53 5530MHz Ant2



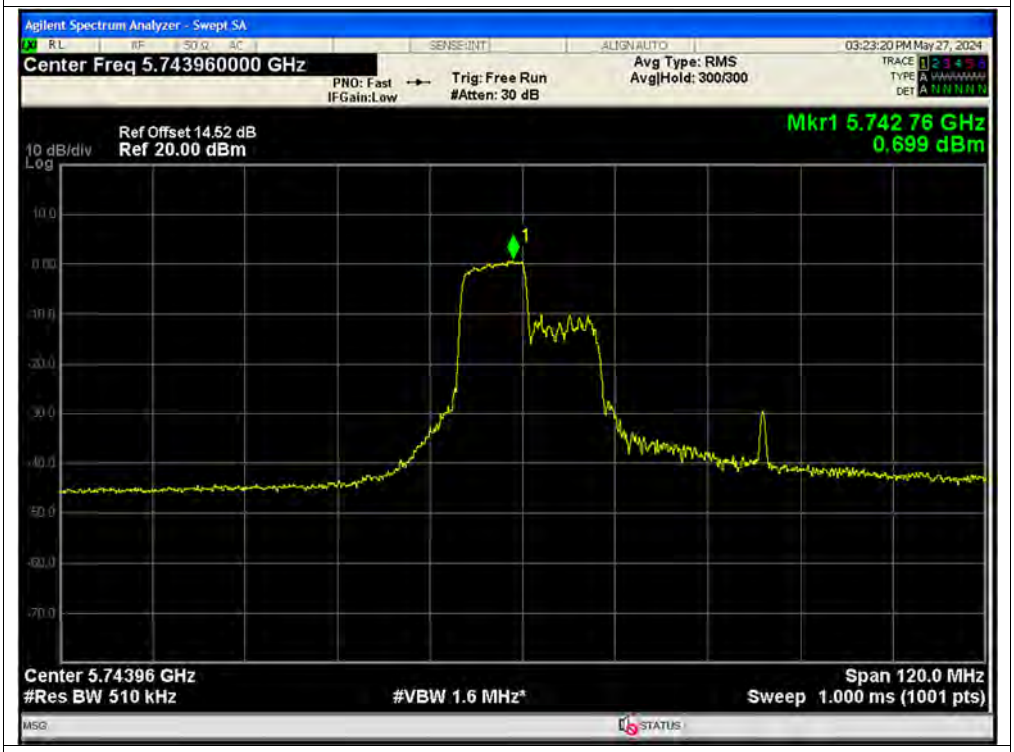
PSD NVNT ax80 106@53 5610MHz Ant2



PSD NVNT ax80 106@53 5690MHz Ant2



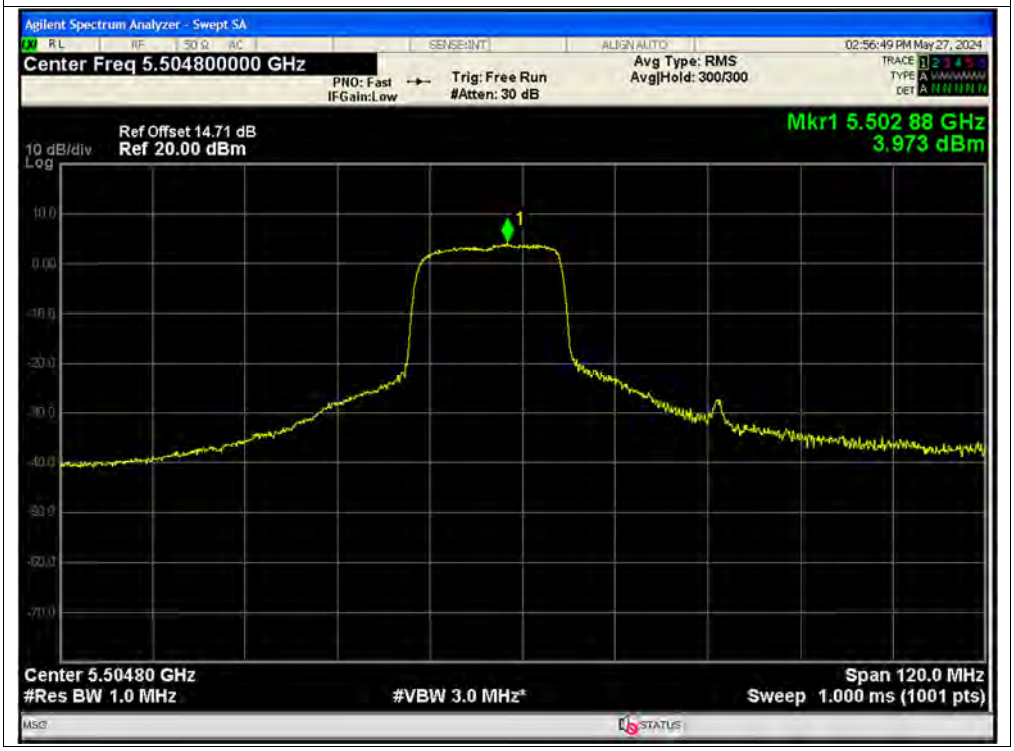
PSD NVNT ax80 106@53 5775MHz Ant2



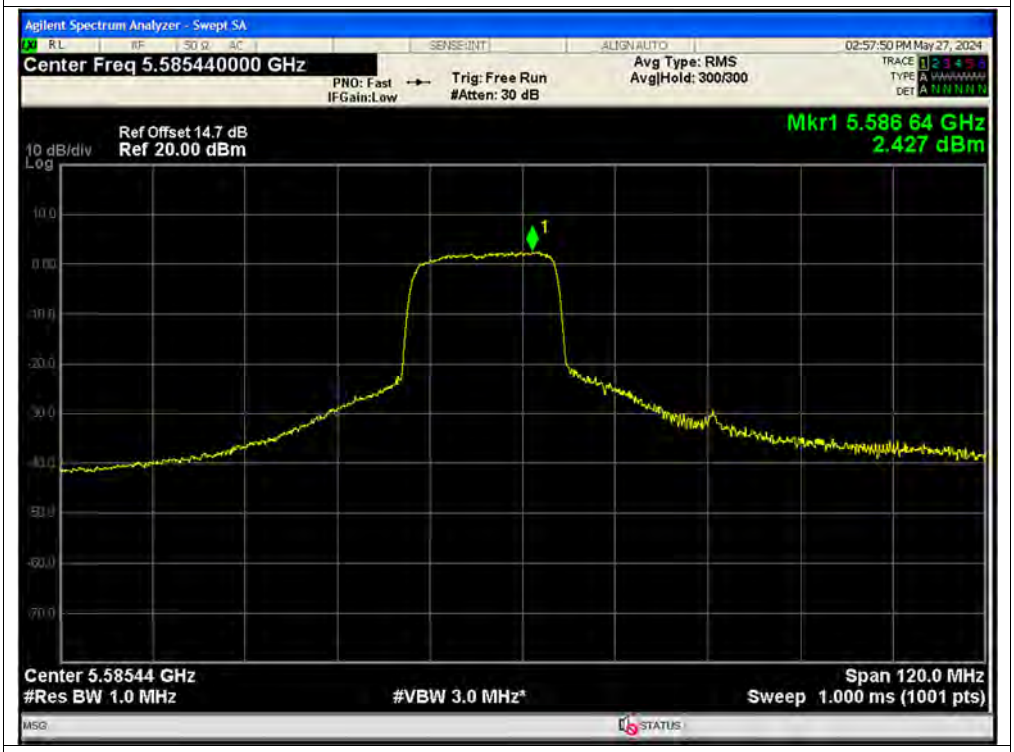
PSD NVNT ax80 242@61 5210MHz Ant1

PSD NVNT ax80 242@61 5290MHz Ant1

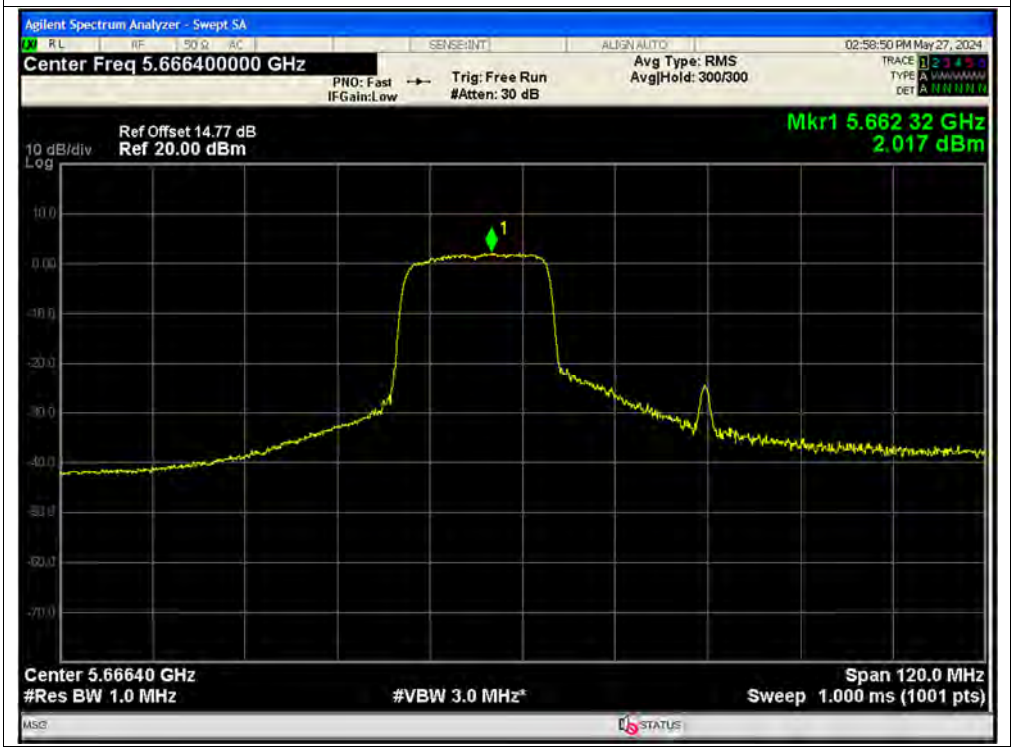
PSD NVNT ax80 242@61 5530MHz Ant1



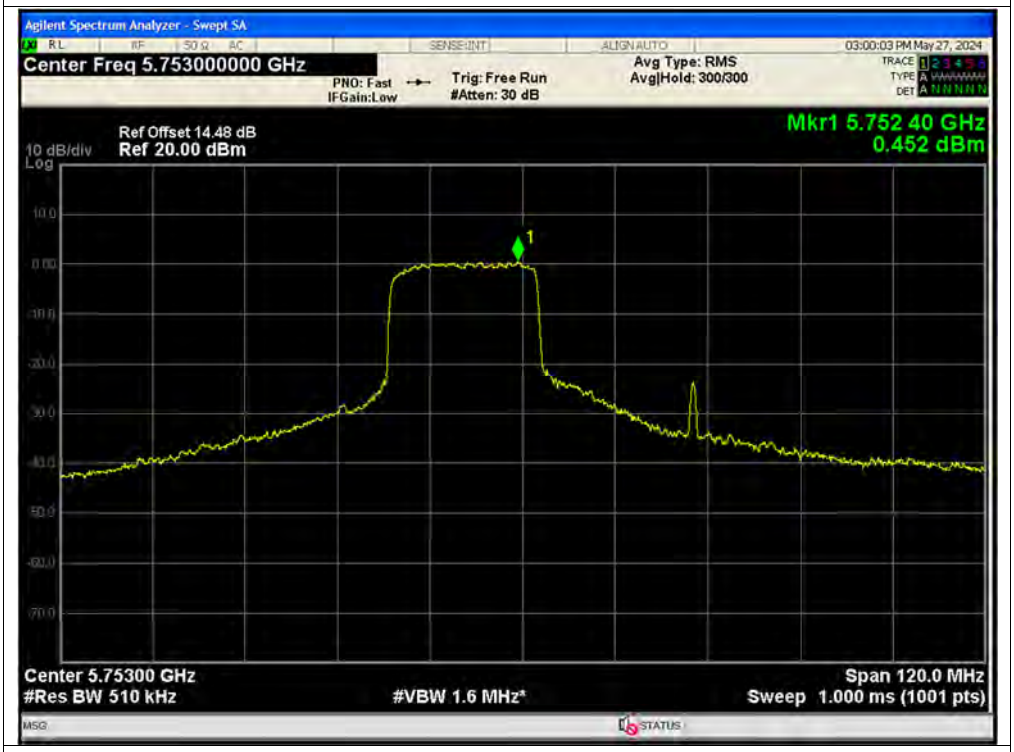
PSD NVNT ax80 242@61 5610MHz Ant1



PSD NVNT ax80 242@61 5690MHz Ant1



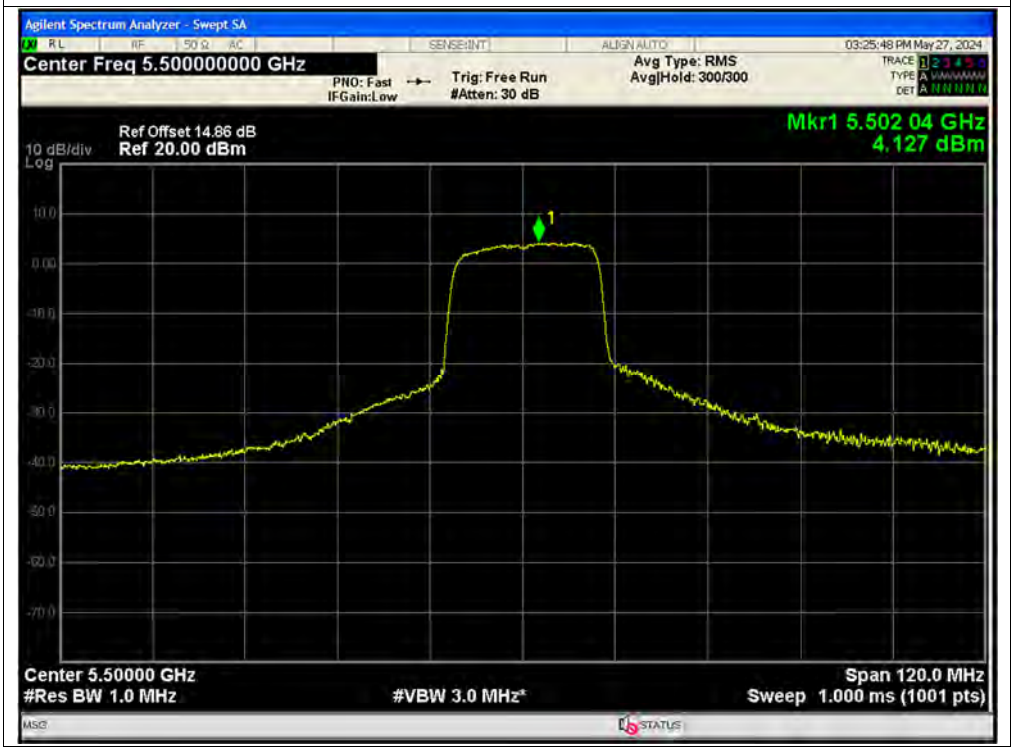
PSD NVNT ax80 242@61 5775MHz Ant1



PSD NVNT ax80 242@61 5210MHz Ant2

PSD NVNT ax80 242@61 5290MHz Ant2

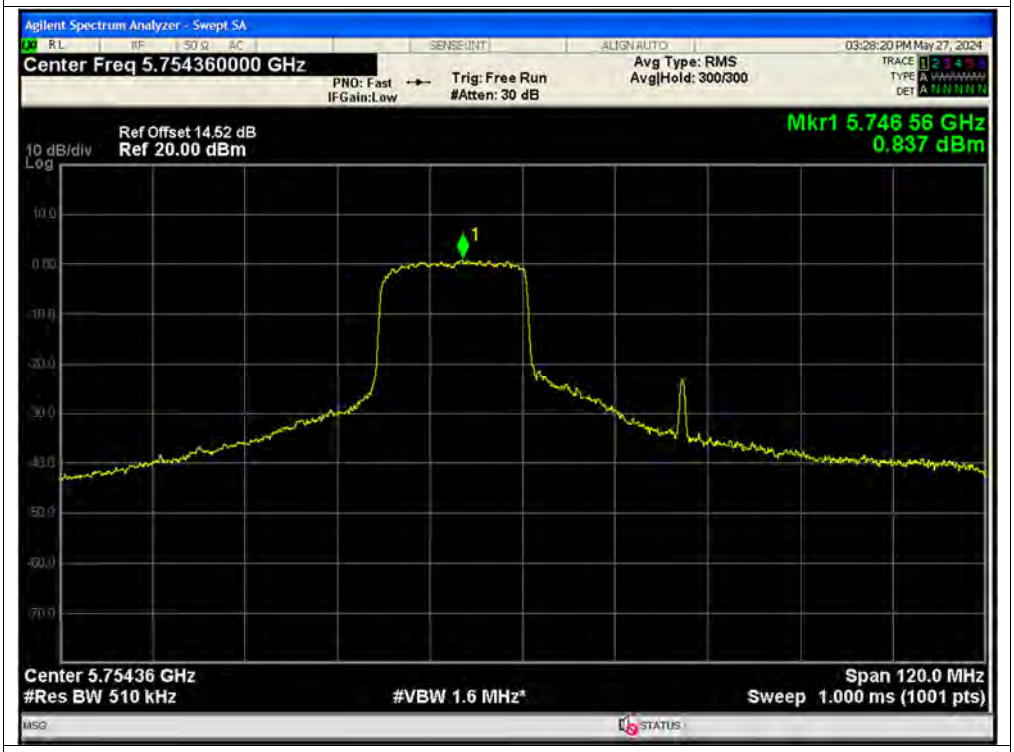
PSD NVNT ax80 242@61 5530MHz Ant2



PSD NVNT ax80 242@61 5610MHz Ant2

PSD NVNT ax80 242@61 5690MHz Ant2

PSD NVNT ax80 242@61 5775MHz Ant2



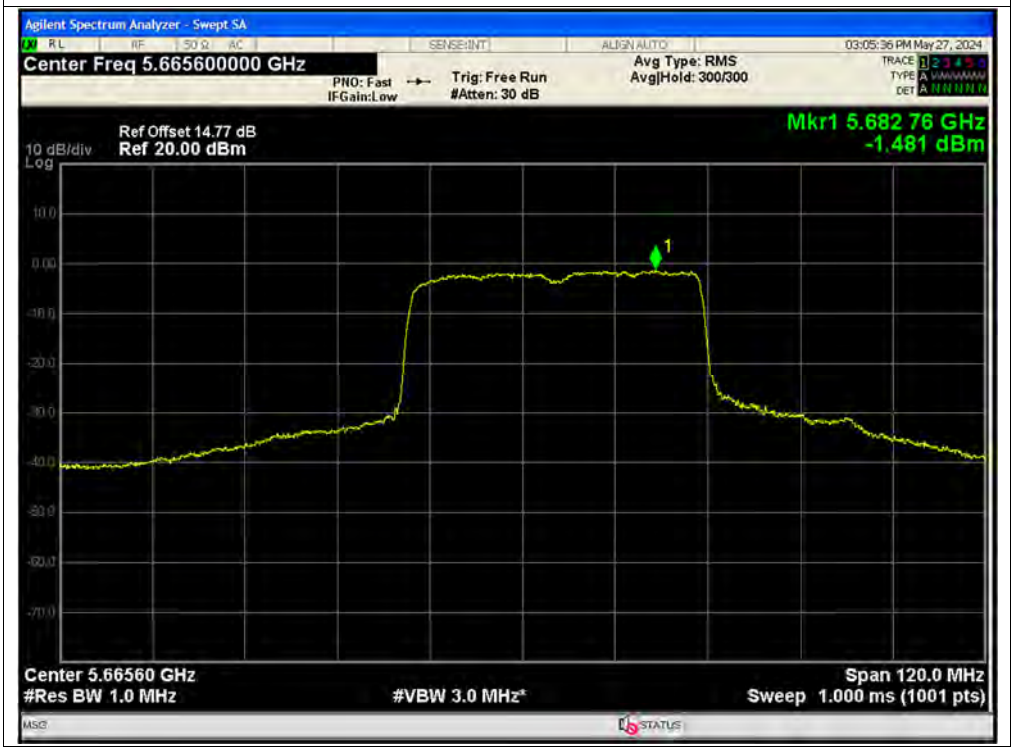
PSD NVNT ax80 484@65 5210MHz Ant1

PSD NVNT ax80 484@65 5290MHz Ant1

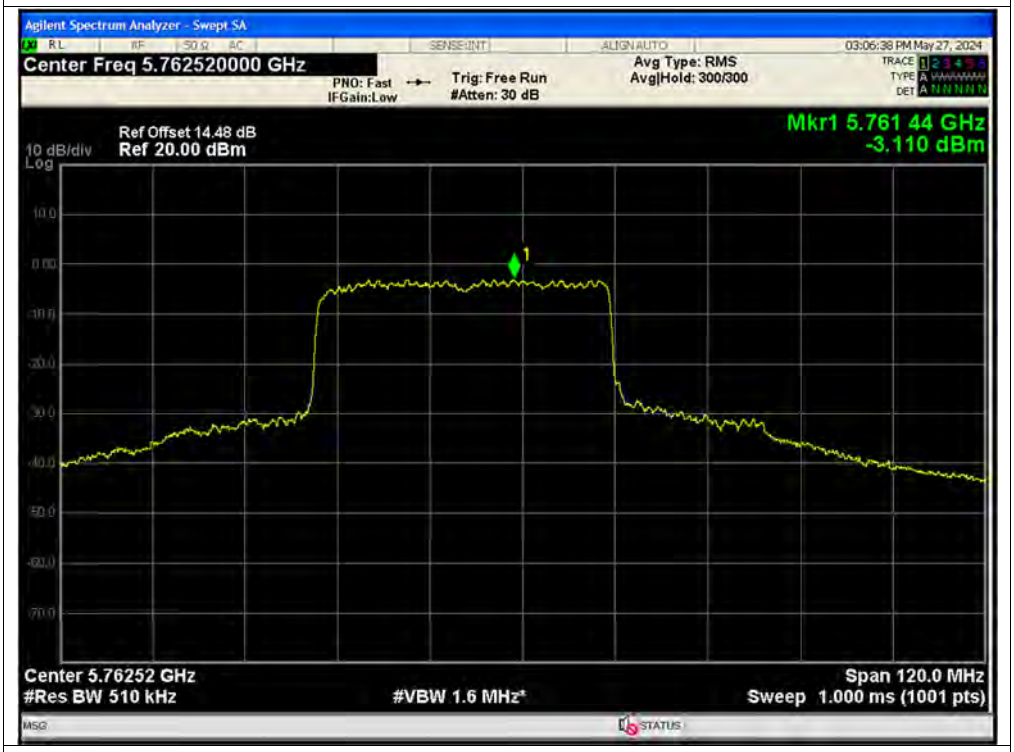
PSD NVNT ax80 484@65 5530MHz Ant1

PSD NVNT ax80 484@65 5610MHz Ant1

PSD NVNT ax80 484@65 5690MHz Ant1

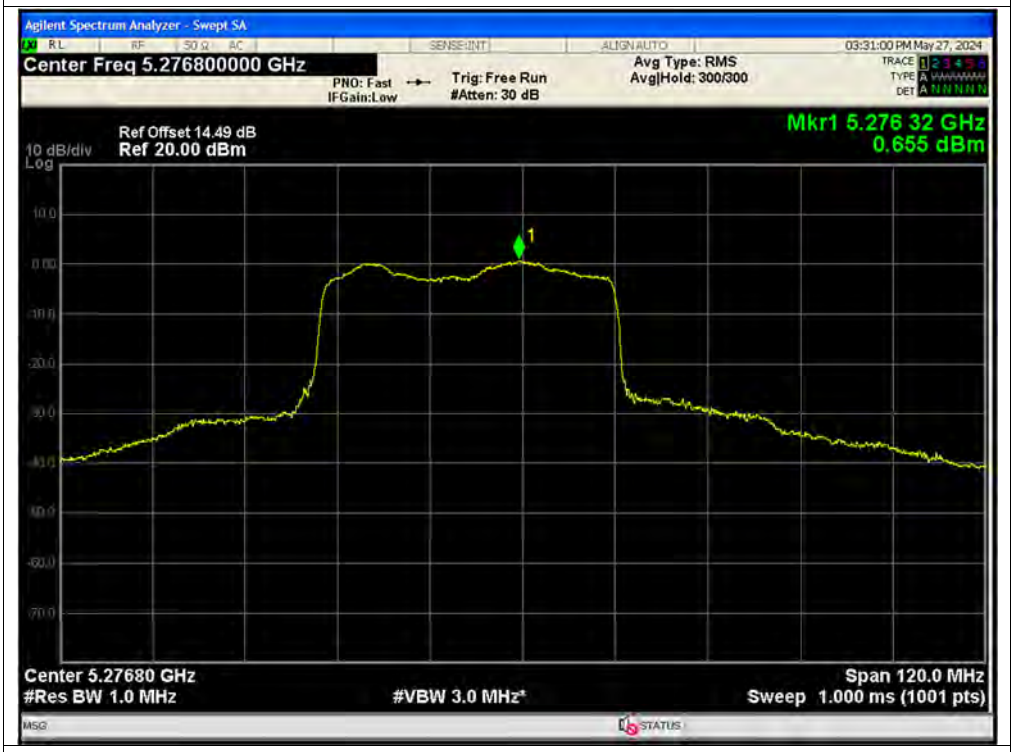


PSD NVNT ax80 484@65 5775MHz Ant1



PSD NVNT ax80 484@65 5210MHz Ant2

PSD NVNT ax80 484@65 5290MHz Ant2



PSD NVNT ax80 484@65 5530MHz Ant2

PSD NVNT ax80 484@65 5610MHz Ant2

PSD NVNT ax80 484@65 5690MHz Ant2

PSD NVNT ax80 484@65 5775MHz Ant2


A.5. Frequency Stability

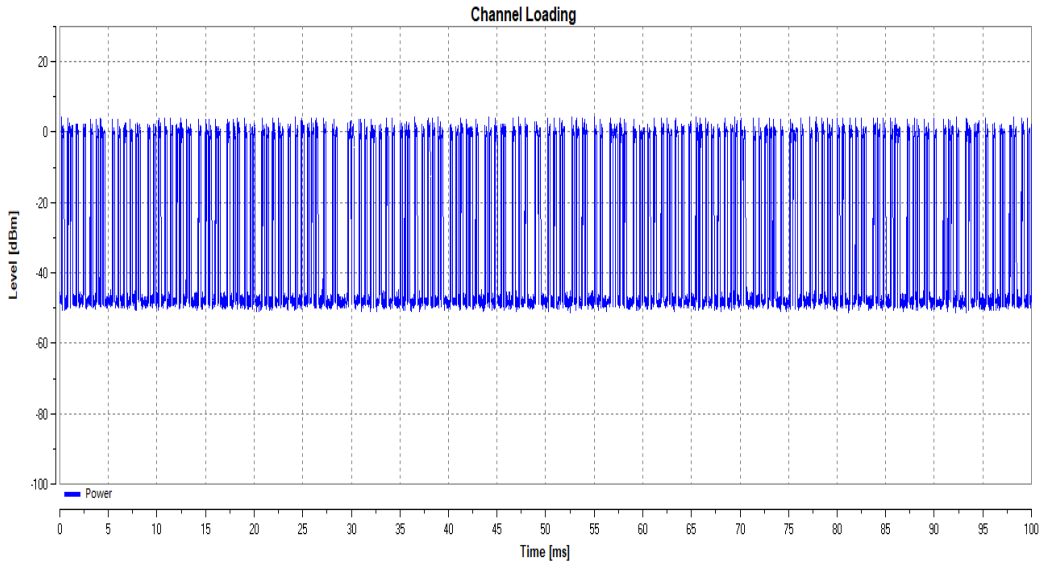
Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
20C 3.5V	Carrier	5180	Ant1	5180.012	12000	2.32	25	Pass
20C 5.5V	Carrier	5180	Ant1	5180.011	11000	2.12	25	Pass
0C 5V	Carrier	5180	Ant1	5180.011	11000	2.12	25	Pass
10C 5V	Carrier	5180	Ant1	5180.011	11000	2.12	25	Pass
20C 5V	Carrier	5180	Ant1	5180.011	11000	2.12	25	Pass
30C 5V	Carrier	5180	Ant1	5180.01	10000	1.93	25	Pass
40C 5V	Carrier	5180	Ant1	5180.01	10000	1.93	25	Pass
20C 3.5V	Carrier	5260	Ant1	5260.017	17000	3.23	25	Pass
20C 5.5V	Carrier	5260	Ant1	5260.016	16000	3.04	25	Pass
0C 5V	Carrier	5260	Ant1	5260.015	15000	2.85	25	Pass
10C 5V	Carrier	5260	Ant1	5260.015	15000	2.85	25	Pass
20C 5V	Carrier	5260	Ant1	5260.014	14000	2.66	25	Pass
30C 5V	Carrier	5260	Ant1	5260.014	14000	2.66	25	Pass
40C 5V	Carrier	5260	Ant1	5260.013	13000	2.47	25	Pass
20C 3.5V	Carrier	5500	Ant1	5500.017	17000	3.09	25	Pass
20C 5.5V	Carrier	5500	Ant1	5500.016	16000	2.91	25	Pass
0C 5V	Carrier	5500	Ant1	5500.015	15000	2.73	25	Pass
10C 5V	Carrier	5500	Ant1	5500.014	14000	2.55	25	Pass
20C 5V	Carrier	5500	Ant1	5500.014	14000	2.55	25	Pass
30C 5V	Carrier	5500	Ant1	5500.013	13000	2.36	25	Pass
40C 5V	Carrier	5500	Ant1	5500.013	13000	2.36	25	Pass
20C 3.5V	Carrier	5745	Ant1	5745.016	16000	2.79	25	Pass
20C 5.5V	Carrier	5745	Ant1	5745.015	15000	2.61	25	Pass
0C 5V	Carrier	5745	Ant1	5745.014	14000	2.44	25	Pass
10C 5V	Carrier	5745	Ant1	5745.014	14000	2.44	25	Pass
20C 5V	Carrier	5745	Ant1	5745.013	13000	2.26	25	Pass
30C 5V	Carrier	5745	Ant1	5745.013	13000	2.26	25	Pass
40C 5V	Carrier	5745	Ant1	5745.012	12000	2.09	25	Pass

A.6. Dynamic Frequency Selection

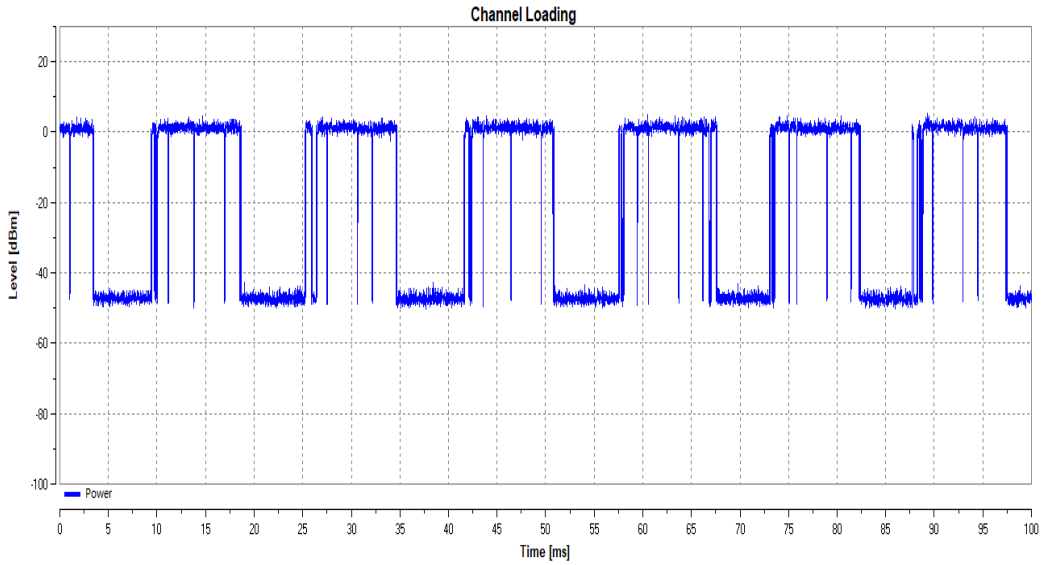
Payload

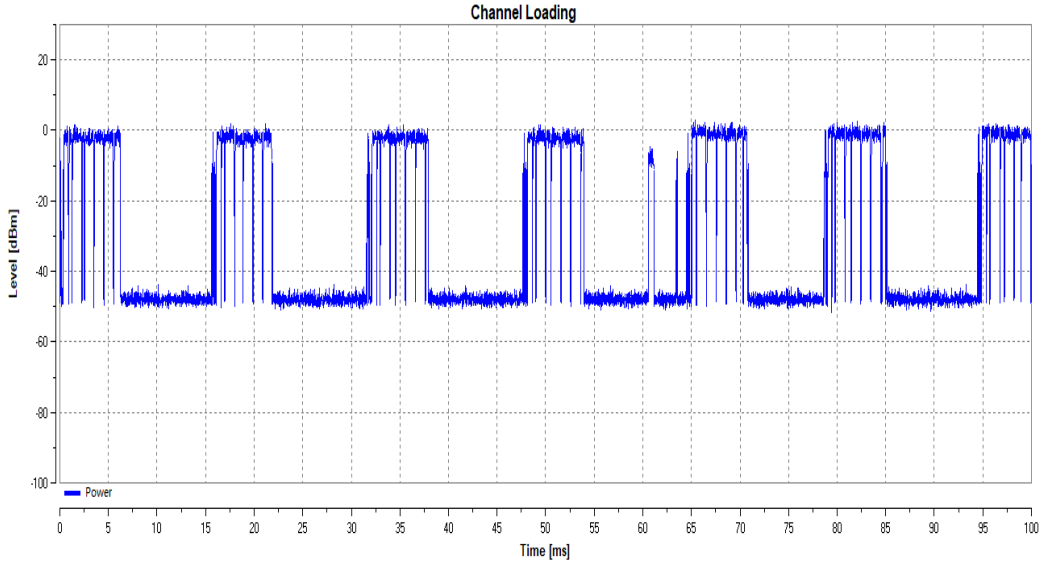
Test Mode	Channel	Result	Limit [%]	Verdict
11AC20SISO	5320	37.76	30	PASS
	5500	56.38	30	PASS
11AC80SISO	5290	40.08	30	PASS
	5530	37.1	30	PASS

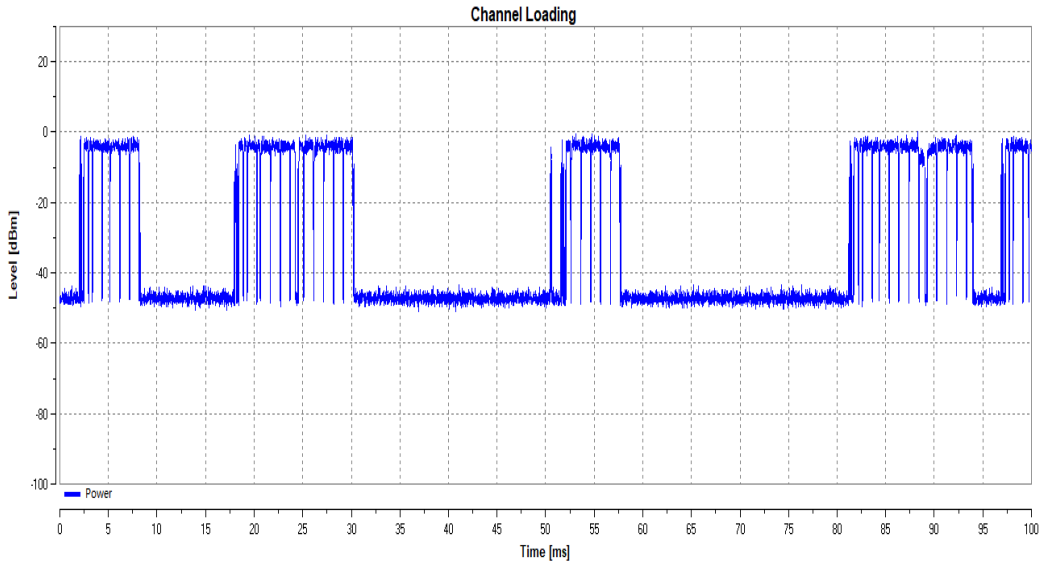
11AC20SISO_5320



11AC20SISO_5500



11AC80SISO_5290


11AC80SISO_5530


Detection Thresholds

Test Mode	Channel	Radar Type	Result	Limit[dbm]	Verdict
11AC20SISO	5320	Reference	-61.99	-55.64	PASS
	5500	Reference	-62.69	-54.22	PASS
11AC80SISO	5290	Reference	-62.59	-55.72	PASS
	5530	Reference	-62.92	-55.72	PASS

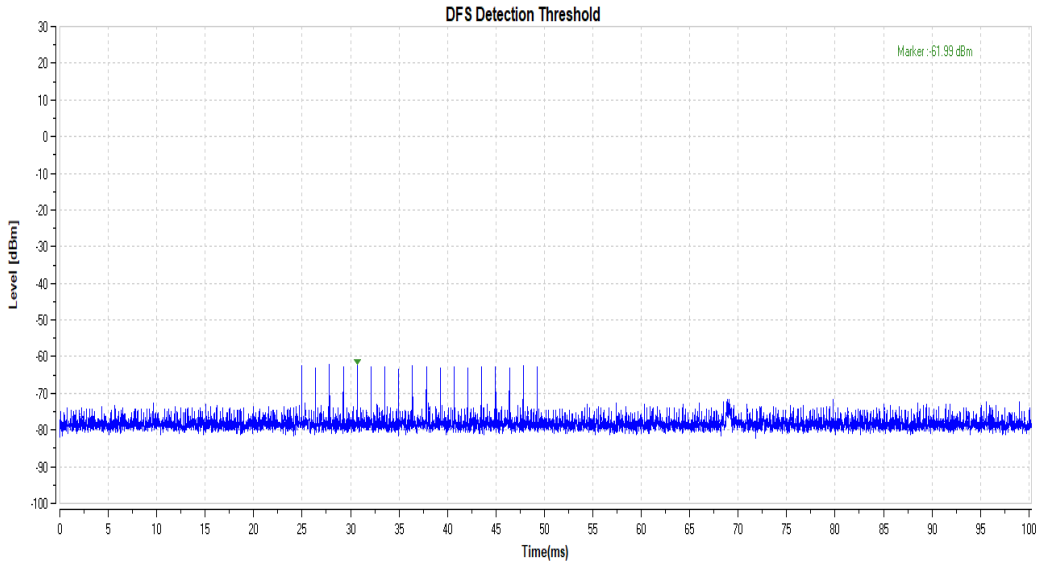
Spectrum analyzer settings:

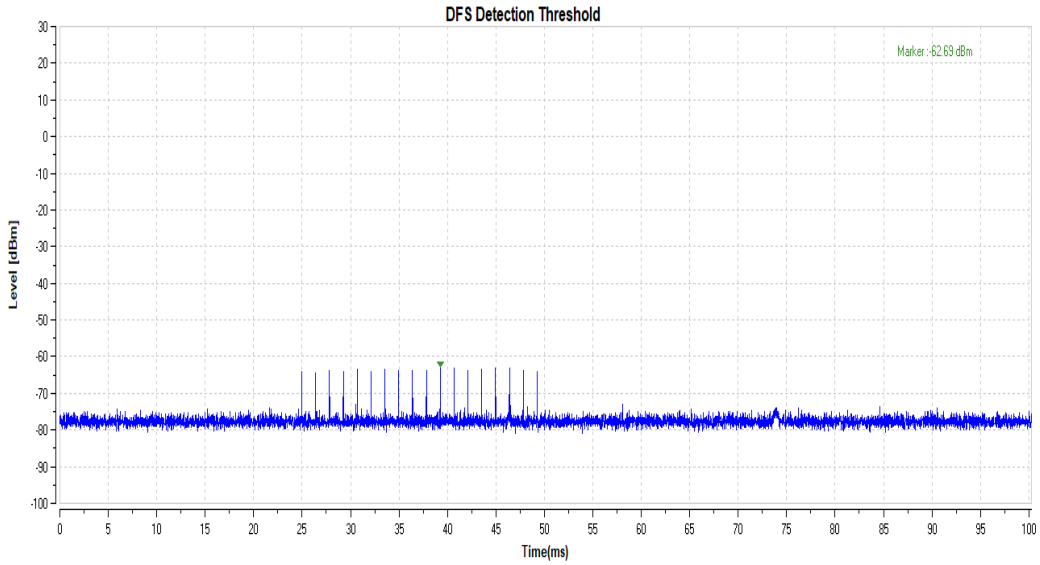
Span: Zero

Detector Type: Peak

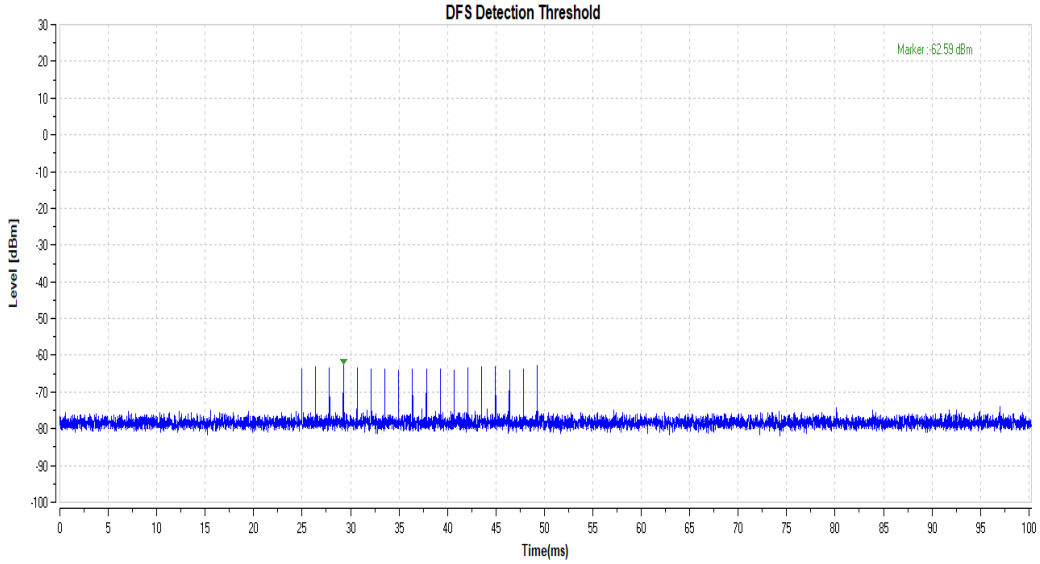
RBW: 3MHz

VBW: 3MHz

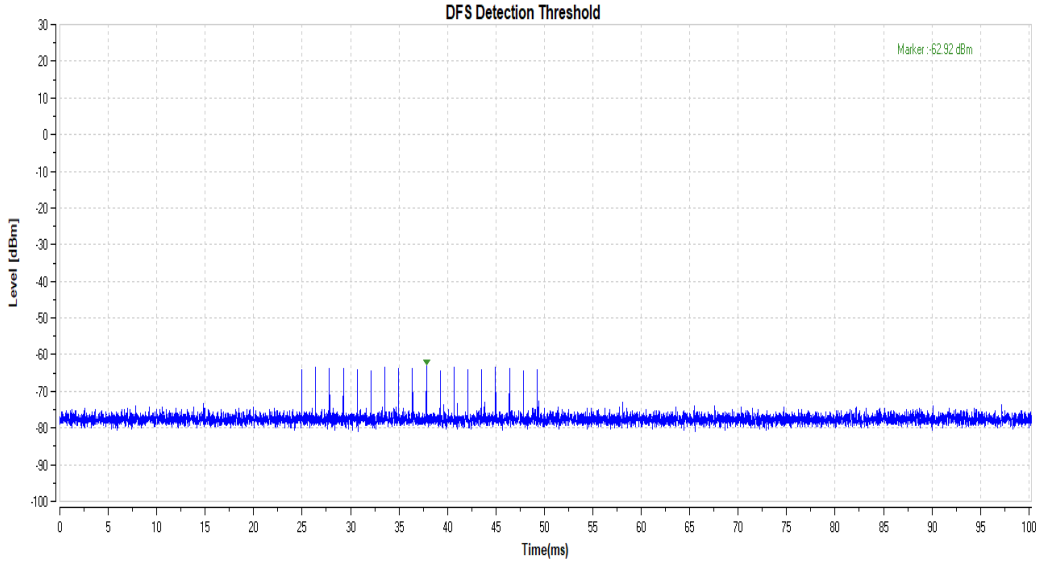
11AC20SISO_5320_Reference


11AC20SISO_5500_Reference


11AC80SISO_5290_Reference



11AC80SISO_5530_Reference



Channel Move Time and Channel Closing Transmission Time

Test Mode	Channel	CCT[ms]	Limit[ms]	CMT[ms]	Limit[ms]	Verdict
11AC20SISO	5320	22.08	260	809.6	10000	PASS
	5500	40.64	260	879.5	10000	PASS
11AC80SISO	5290	22.4	260	814.8	10000	PASS
	5530	31.36	260	858.4	10000	PASS

Spectrum analyzer settings:

Span: Zero

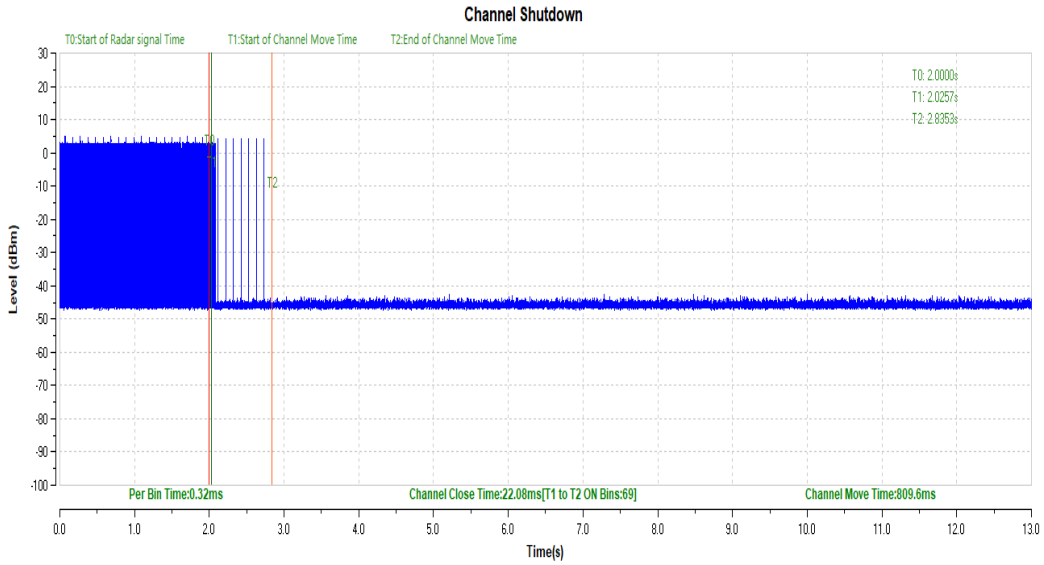
Detector type: Peak

RBW: 3MHz

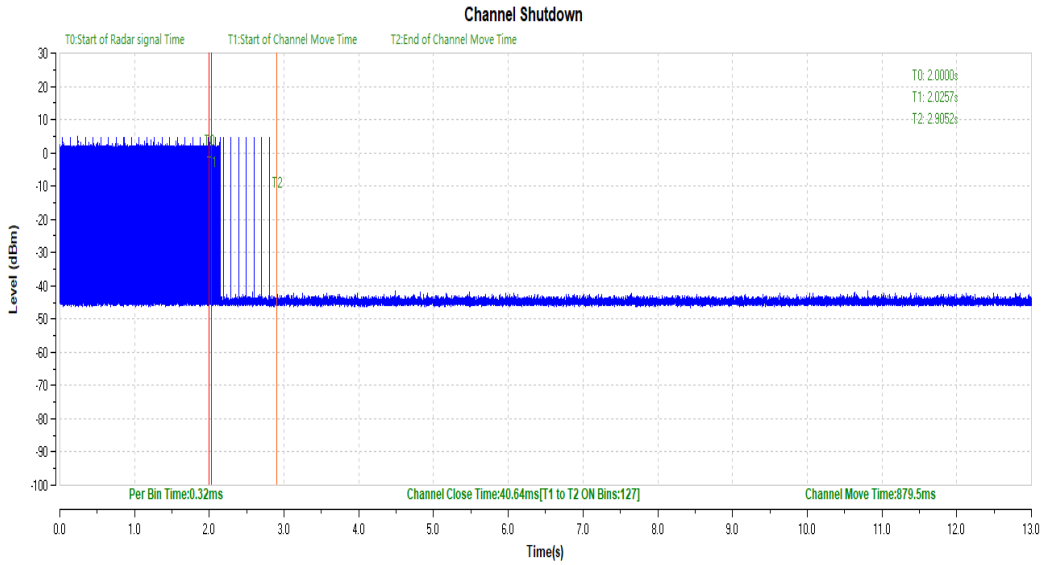
VBW: 3MHz

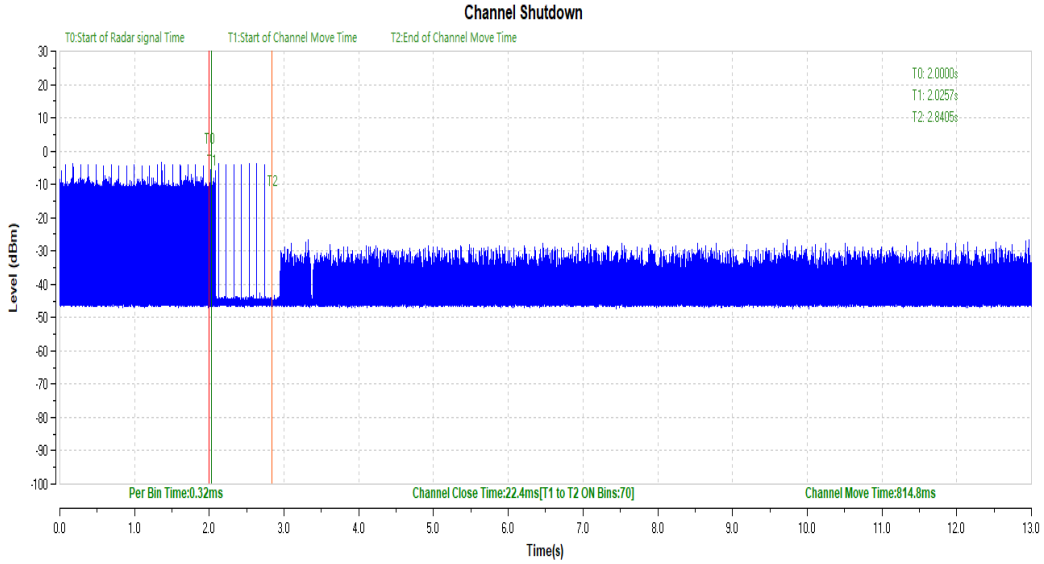
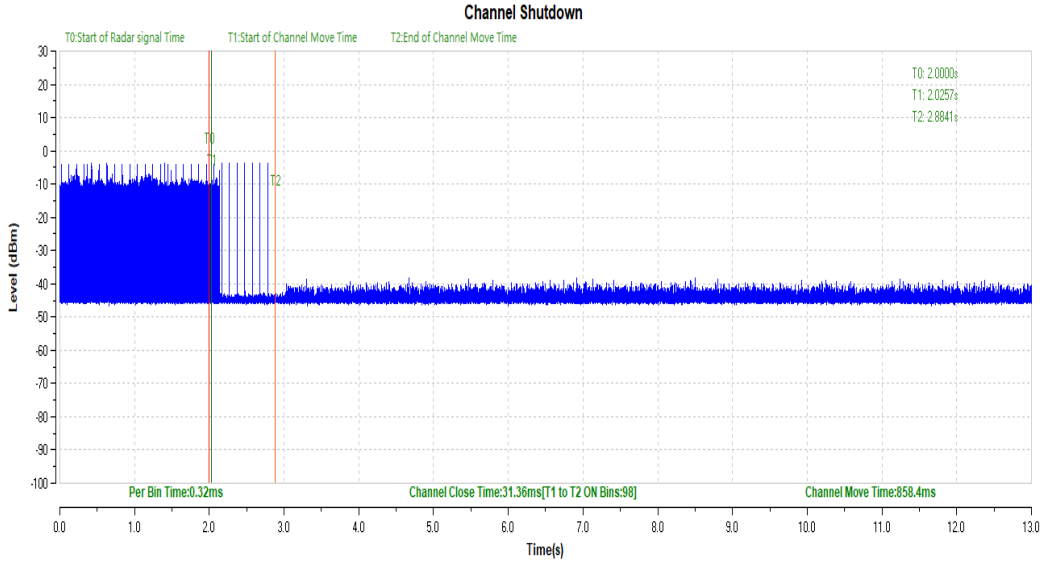
Sweep time: 20s

11AC20SISO_5320



11AC20SISO_5500



11AC80SISO_5290

11AC80SISO_5530


Note：The signal above the noise floor after the radar signal ends is the signal which leaked from other channels that have been moved following the Master device.

Non-Occupancy Period

Test Mode	Frequency (MHz)	Result	Verdict
11AC20SISO	5320	See test Graph	Pass
	5500	See test Graph	Pass

Spectrum analyzer settings:

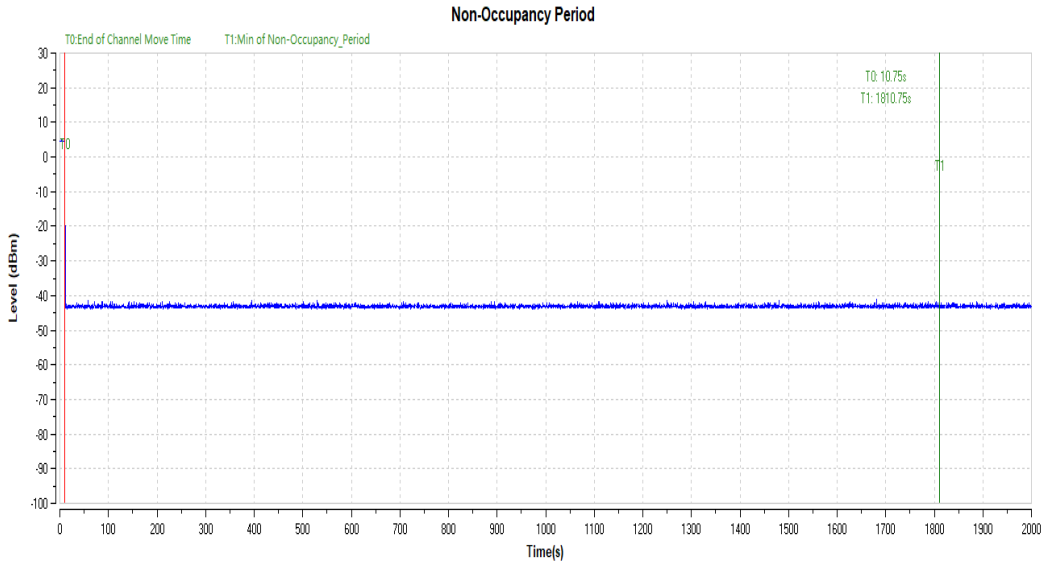
Span: Zero

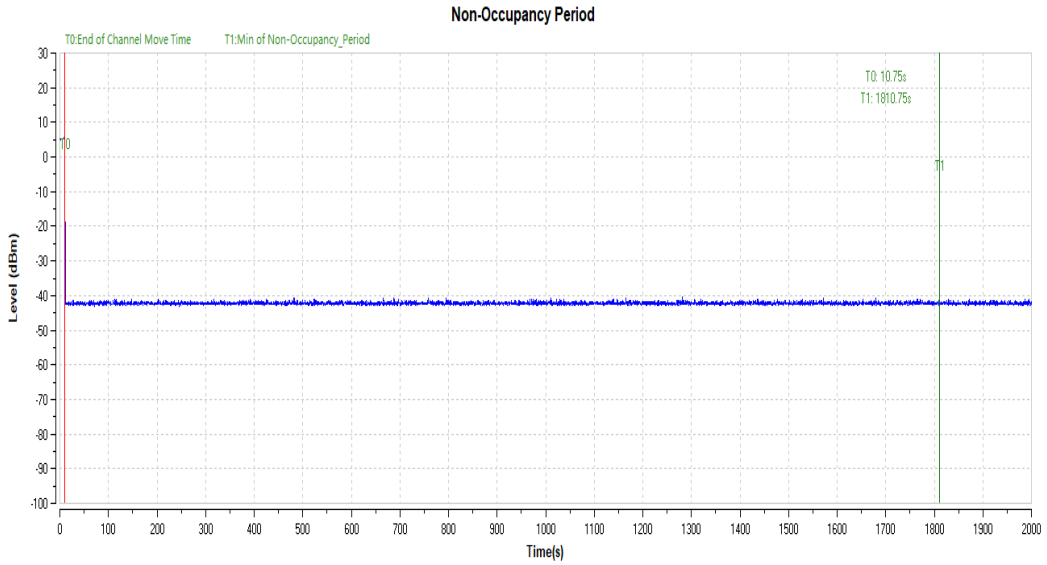
Detector type: Peak

RBW: 3MHz

VBW: 3MHz

Sweep time: 1850s

11AC20SISO_5320


11AC20SISO_5500


A.7. 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 + Test Plate + Adapter + RJ45 Cable + PC + WIFI TX

Test voltage: AC 120V/60Hz

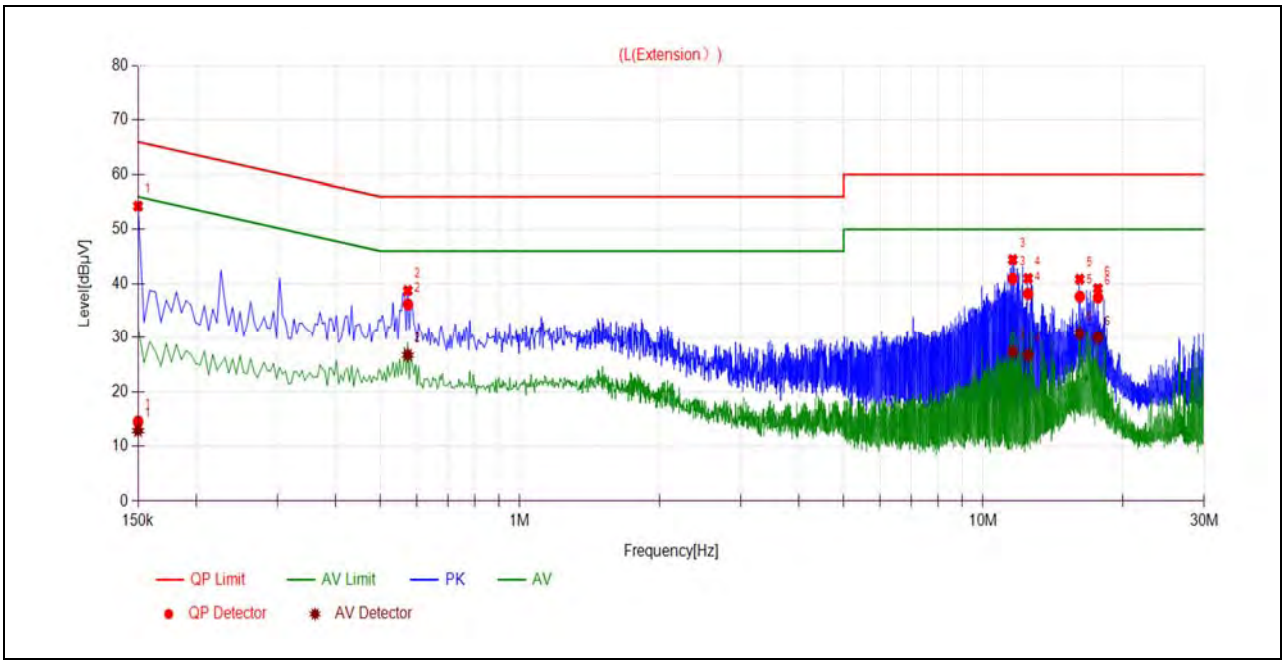
The measurement results are obtained as below:

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

U_R: Receiver Reading

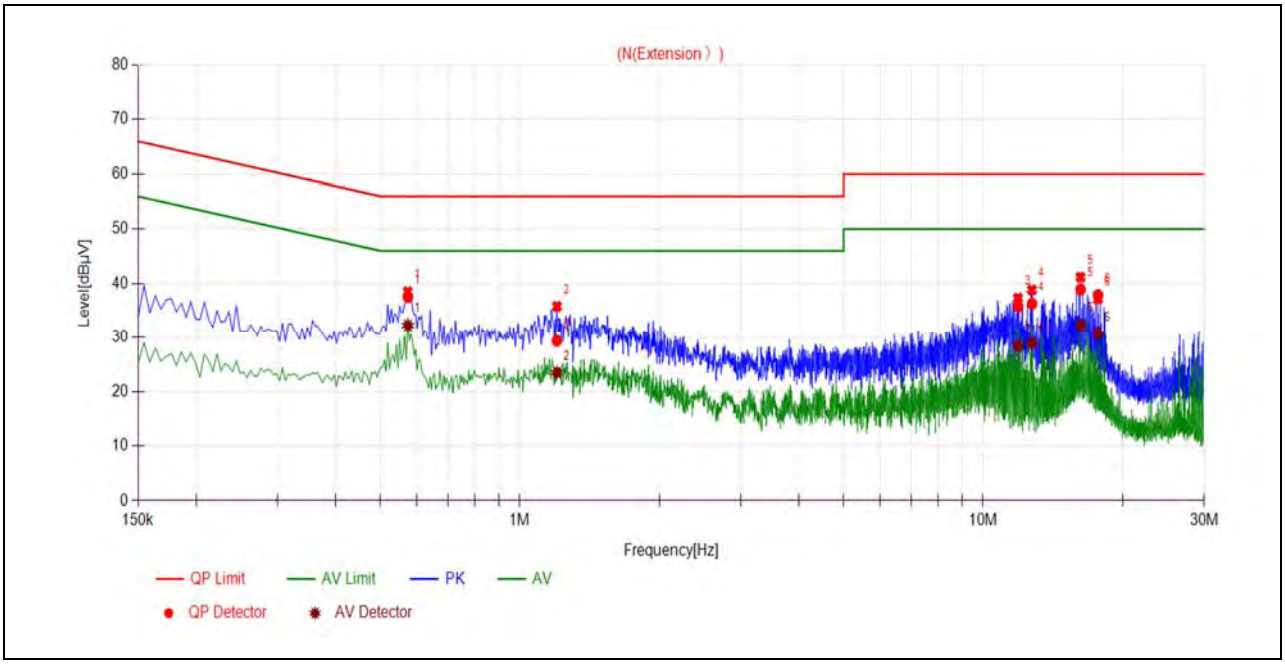
A_{Factor}: Voltage division factor of LISN

B. Test Plot:



(L Phase)

No.	Fre. (MHz)	Emission Level (dBµV)		Limit (dBµV)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.1500	14.51	12.83	66.00	12.83	Line	PASS
2	0.5734	36.18	26.73	56.00	26.73		PASS
3	11.5875	40.92	27.33	60.00	27.33		PASS
4	12.5027	38.14	26.68	60.00	26.68		PASS
5	16.1672	37.61	30.75	60.00	30.75		PASS
6	17.6954	37.45	29.97	60.00	29.97		PASS



(N Phase)

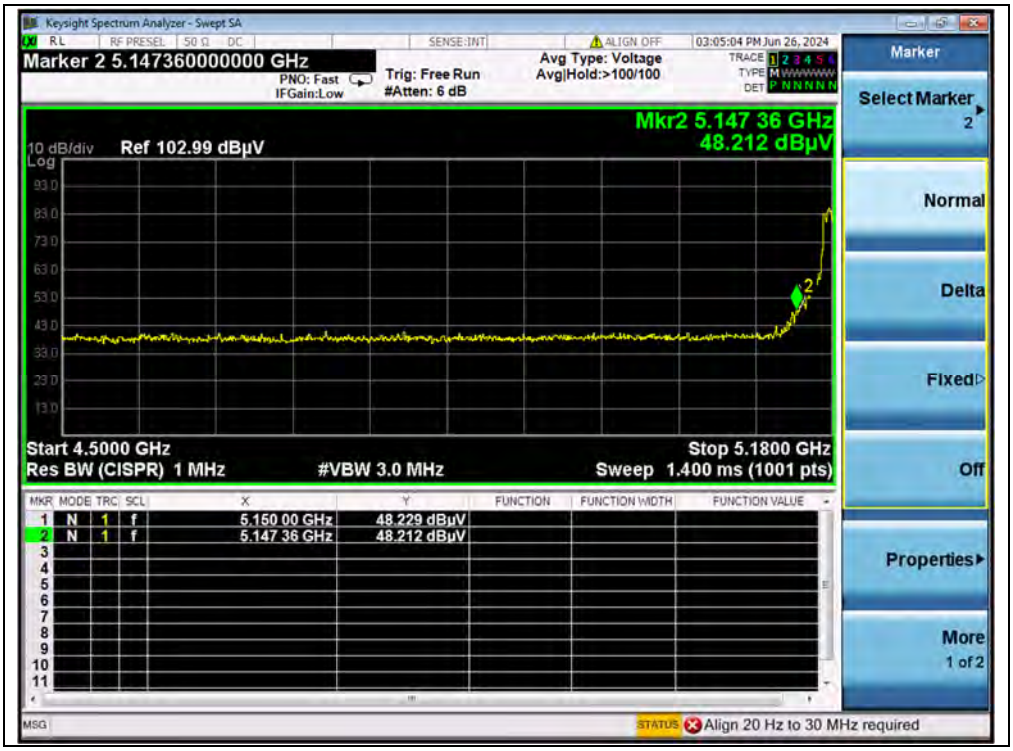
No.	Fre. (MHz)	Emission Level (dBµV)		Limit (dBµV)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.5735	37.55	32.28	56.00	46.00	Neutral	PASS
2	1.2023	29.38	23.46	56.00	46.00		PASS
3	11.8940	35.83	28.42	60.00	50.00		PASS
4	12.7483	36.29	28.93	60.00	50.00		PASS
5	16.2296	38.93	32.34	60.00	50.00		PASS
6	17.6936	37.86	30.75	60.00	50.00		PASS

A.8. Restricted Frequency Bands

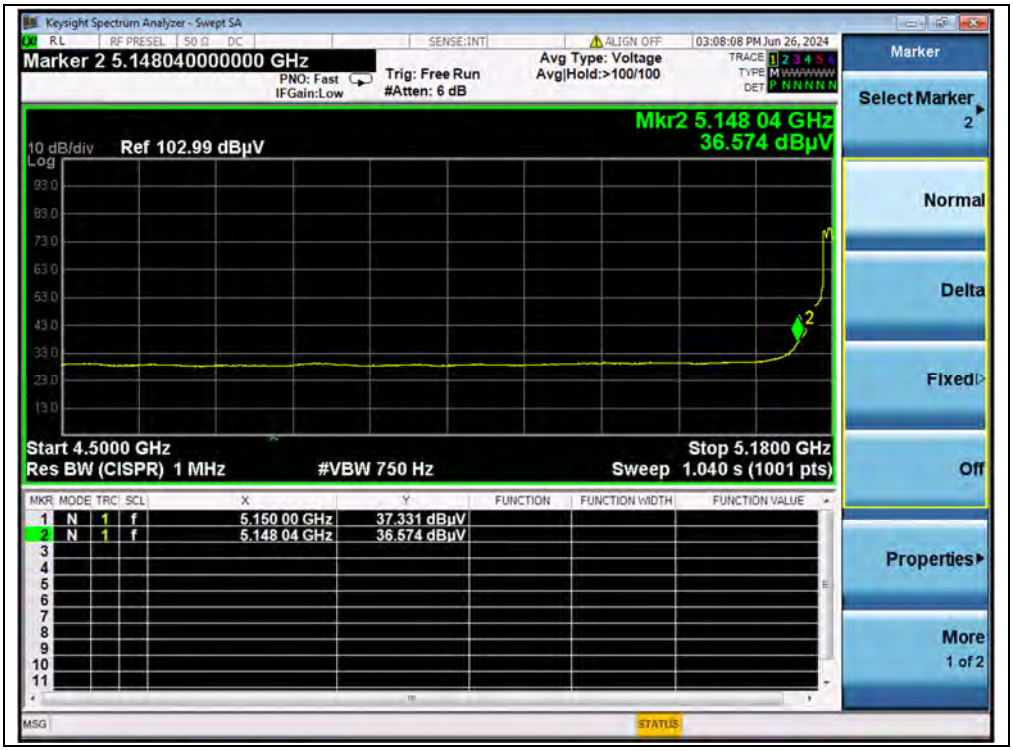
The lowest and highest channels are tested to verify the Restricted Frequency Bands.
The measurement results are obtained as below:
$E\ [dB\mu V/m] = U_R + A_T + A_{Factor}\ [dB]$; $A_T = L_{Cable\ loss}\ [dB] - G_{preamp}\ [dB]$
A_T: Total correction Factor except Antenna
U_R: Receiver Reading
G_{preamp}: Preamplifier Gain
A_{Factor}: Antenna Factor at 3m
Note 1: 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.
Note 2: Restricted Frequency Bands were performed in X, Y, Z axis direction, and only the worst axis (Y 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.

802.11a Mode

Channel	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						
36	5150.00	PK	48.23	-21.29	32.20	59.14	74	PASS
36	5150.00	AV	37.33	-21.29	32.20	48.24	54	PASS
64	5350.24	PK	47.34	-20.66	32.20	58.88	74	PASS
64	5350.80	AV	38.52	-20.66	32.20	50.06	54	PASS
100	5469.00	PK	50.64	-20.24	32.20	62.60	68.23	PASS
100	5460.00	AV	30.38	-20.24	32.20	42.34	54	PASS
144	5725.20	PK	50.52	-20.24	32.20	62.48	68.23	PASS
149	5725.00	PK	56.07	-21.11	32.20	67.16	122.23	PASS
165	5850.00	PK	48.58	-21.11	32.20	59.67	122.23	PASS

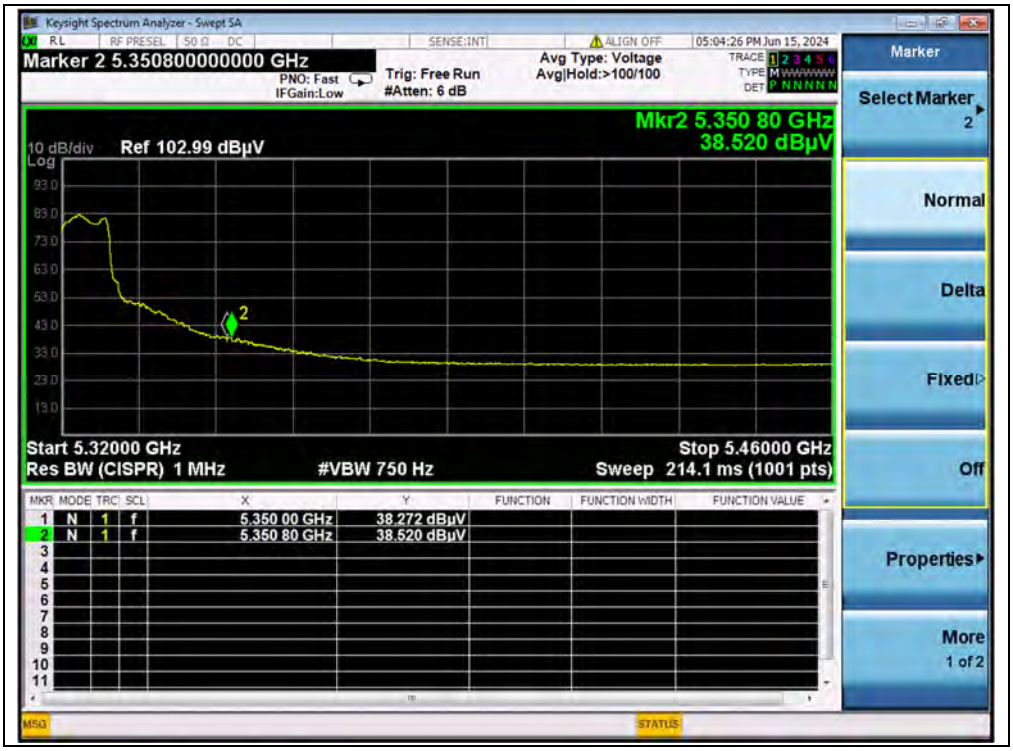


(PEAK, Channel 36, 802.11a)

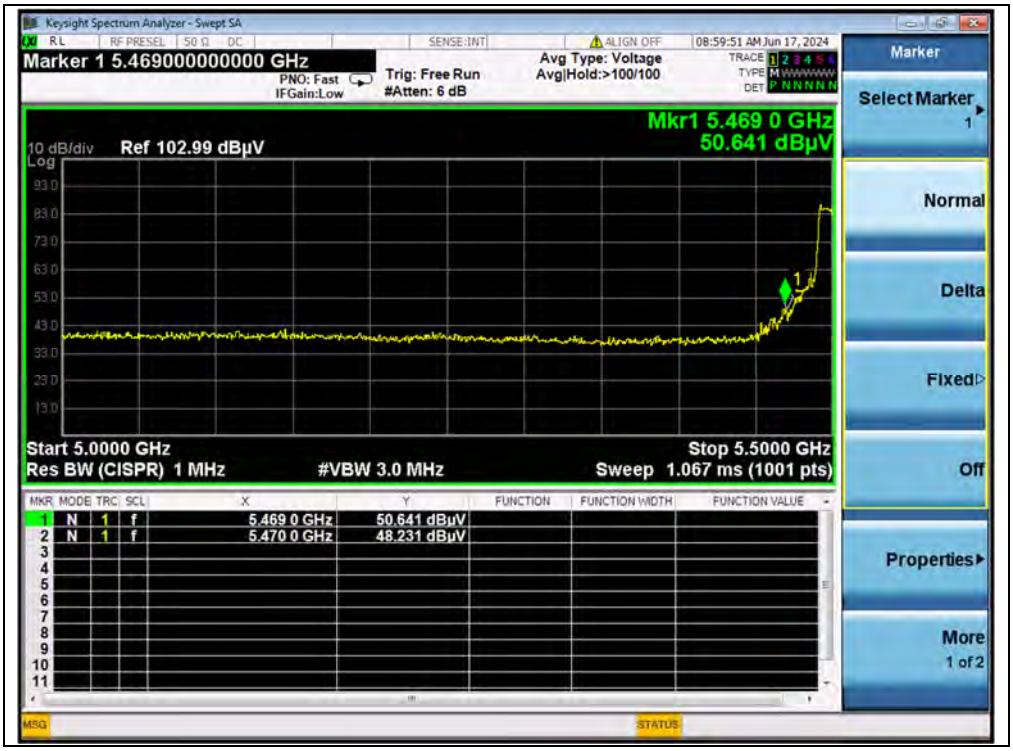


(AVERAGE, Channel 36, 802.11a)

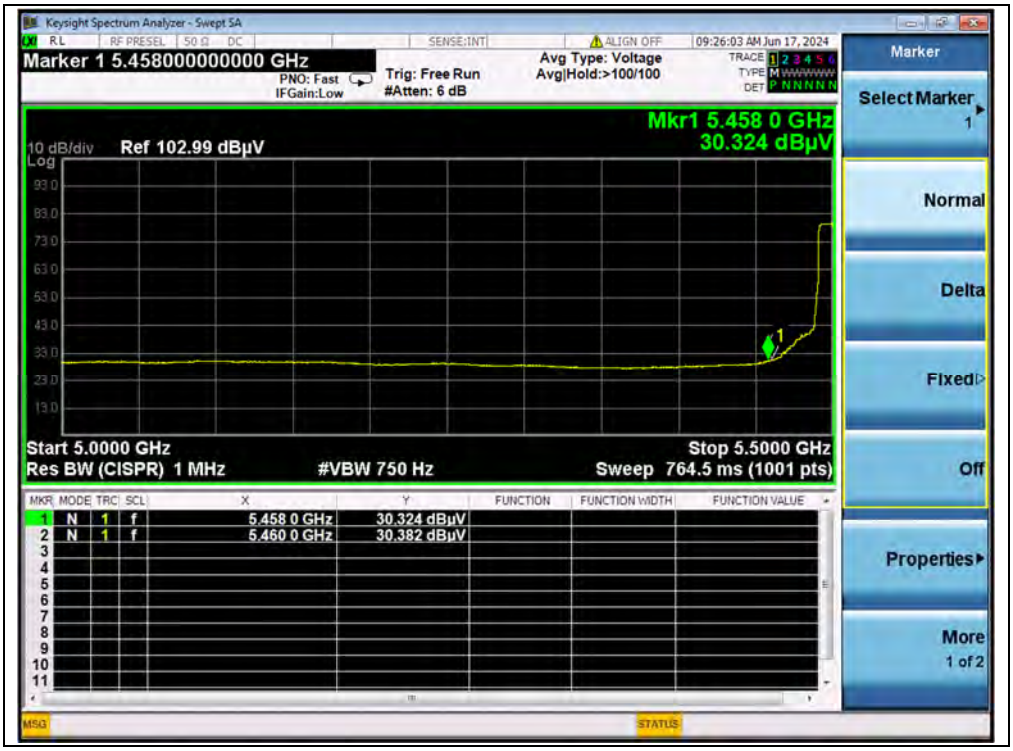
(PEAK, Channel 64, 802.11a)



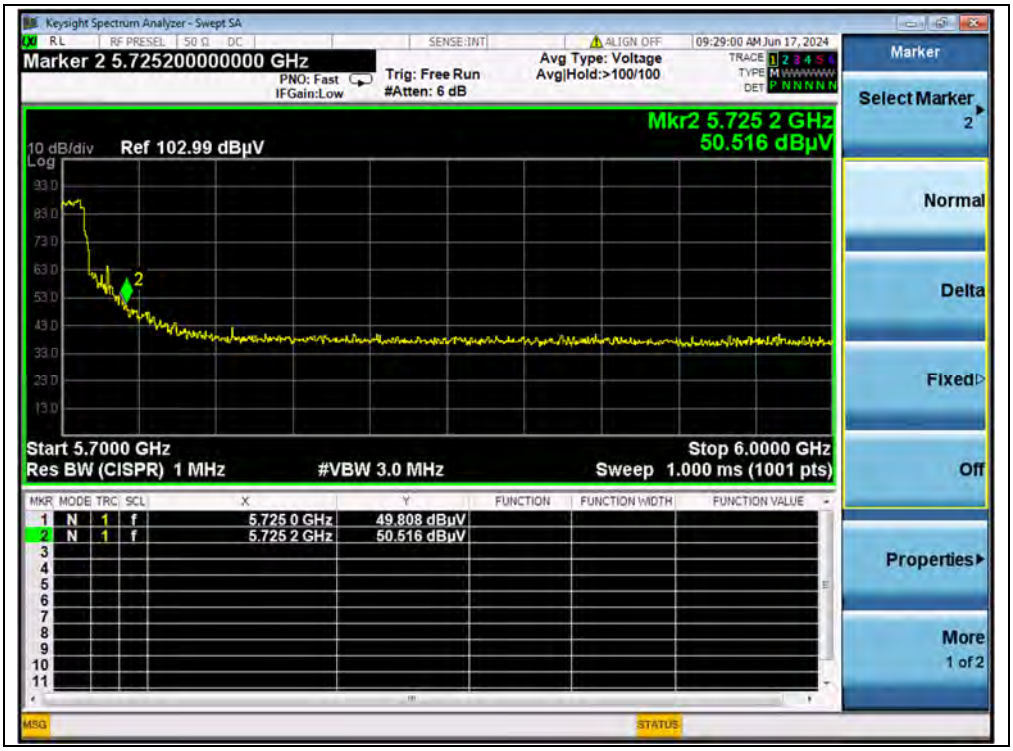
(AVERAGE, Channel 64, 802.11a)



(PEAK, Channel 100, 802.11a)



(AVERAGE, Channel 100, 802.11a)



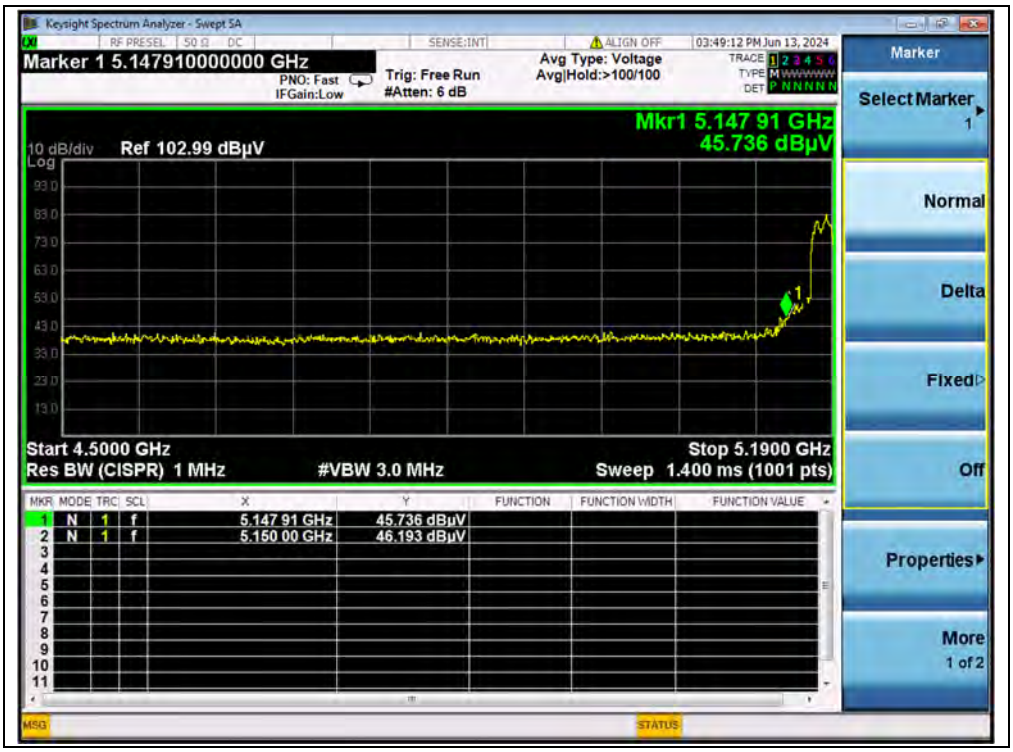
(PEAK, Channel 144, 802.11a)

(PEAK, Channel 149, 802.11a)

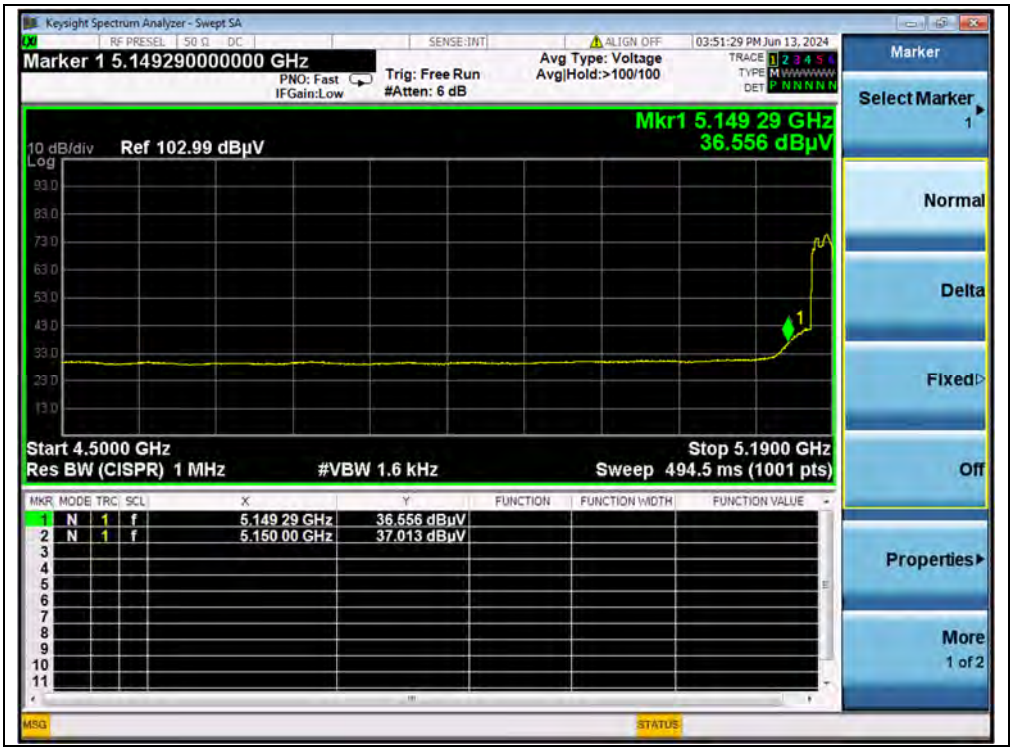
(PEAK, Channel 165, 802.11a)

802.11n (HT40) Mode

Channel	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						
38	5150.00	PK	46.19	-21.29	32.20	57.10	74	PASS
38	5150.00	AV	37.01	-21.29	32.20	47.92	54	PASS
62	5350.35	PK	47.89	-20.66	32.20	59.43	74	PASS
62	5350.00	AV	34.98	-20.66	32.20	46.52	54	PASS
102	5470.00	PK	51.79	-20.24	32.20	63.75	68.23	PASS
102	5460.00	AV	36.38	-20.24	32.20	48.34	54	PASS
142	5730.39	PK	43.49	-20.24	32.20	55.45	68.23	PASS
151	5725.00	PK	56.32	-21.11	32.20	67.41	122.23	PASS
159	5850.00	PK	44.03	-21.11	32.20	55.12	122.23	PASS

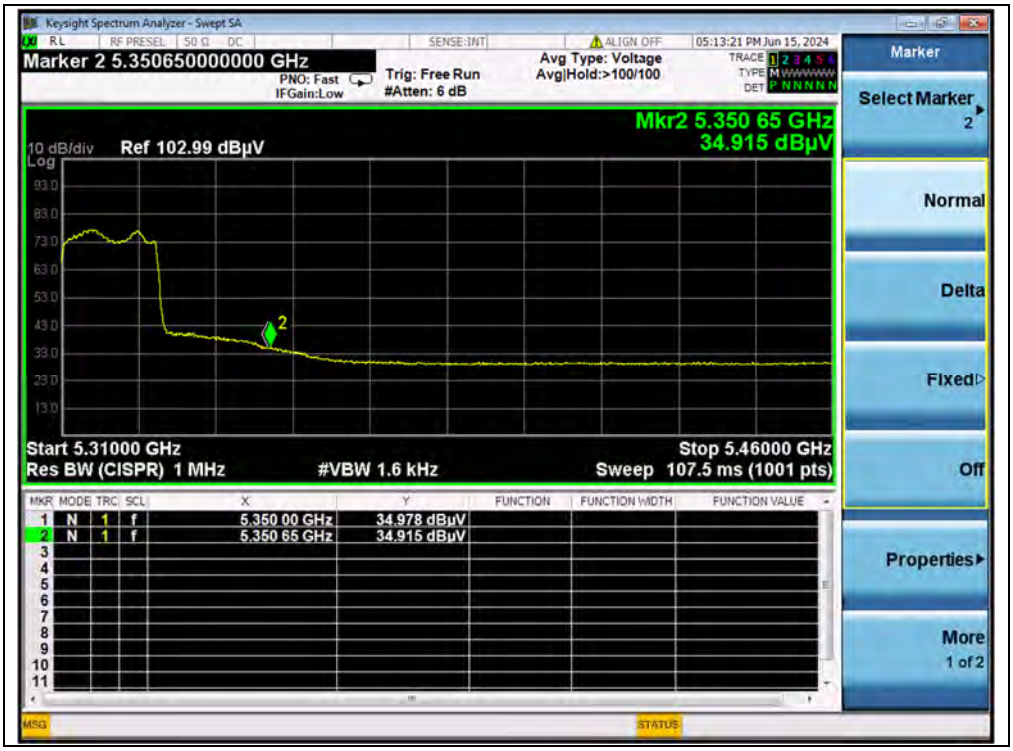


(PEAK, Channel 38, 802.11n (HT40))

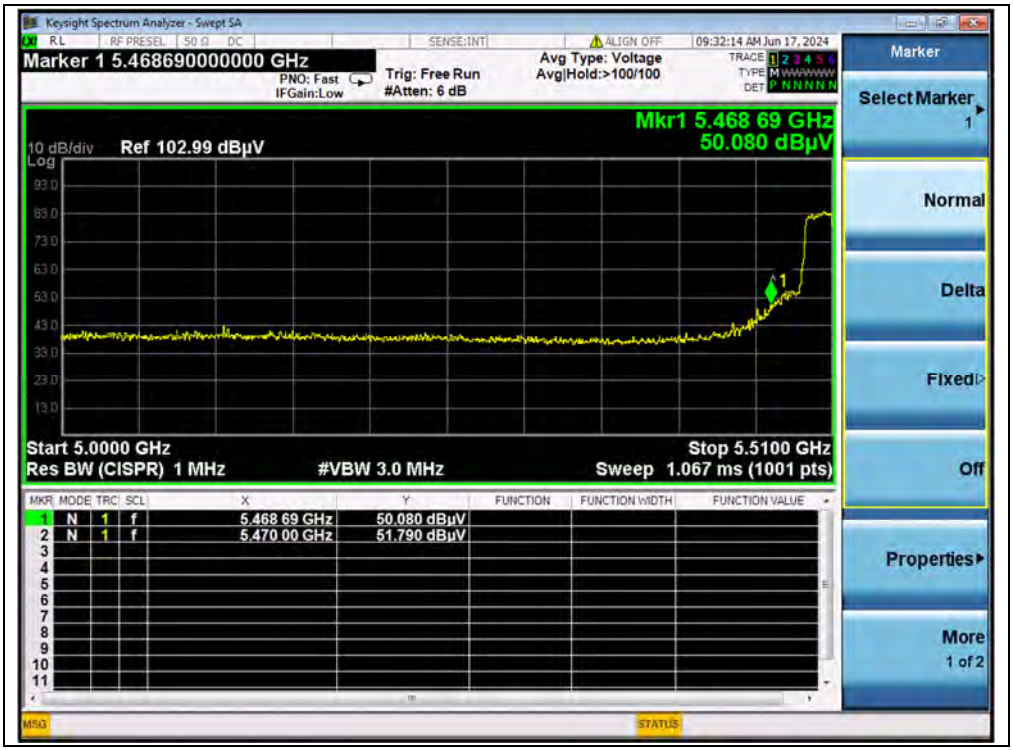


(AVERAGE, Channel 38, 802.11n (HT40))

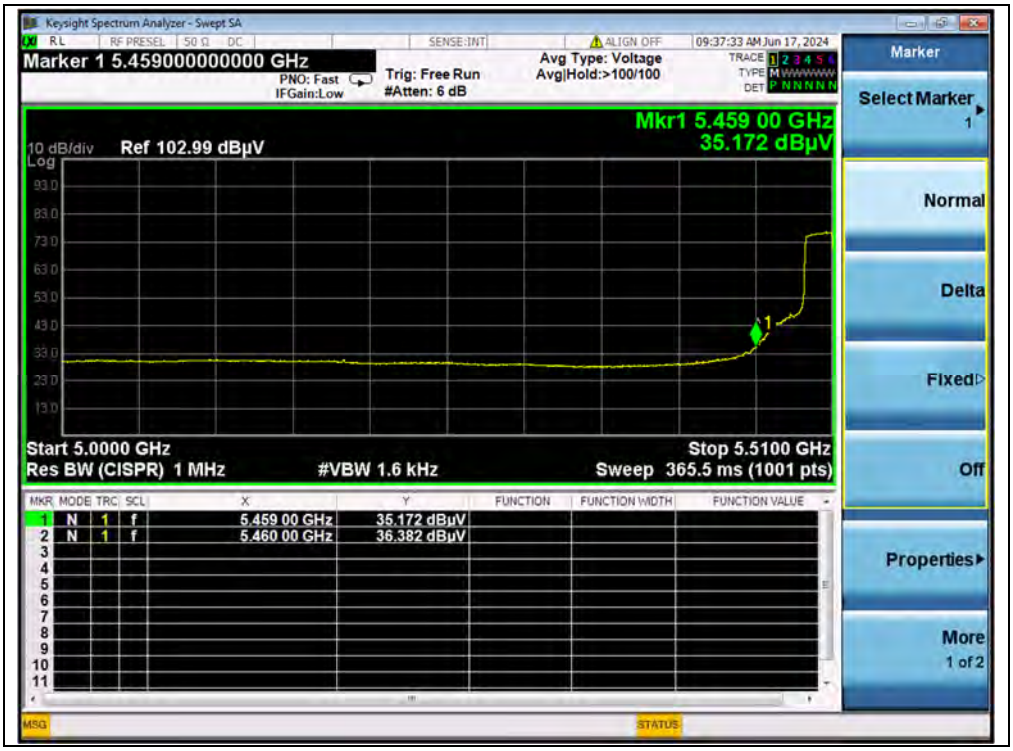
(PEAK, Channel 62, 802.11n (HT40))



(AVERAGE, Channel 62, 802.11n (HT40))



(PEAK, Channel 102, 802.11n (HT40))



(AVERAGE, Channel 102, 802.11n (HT40))

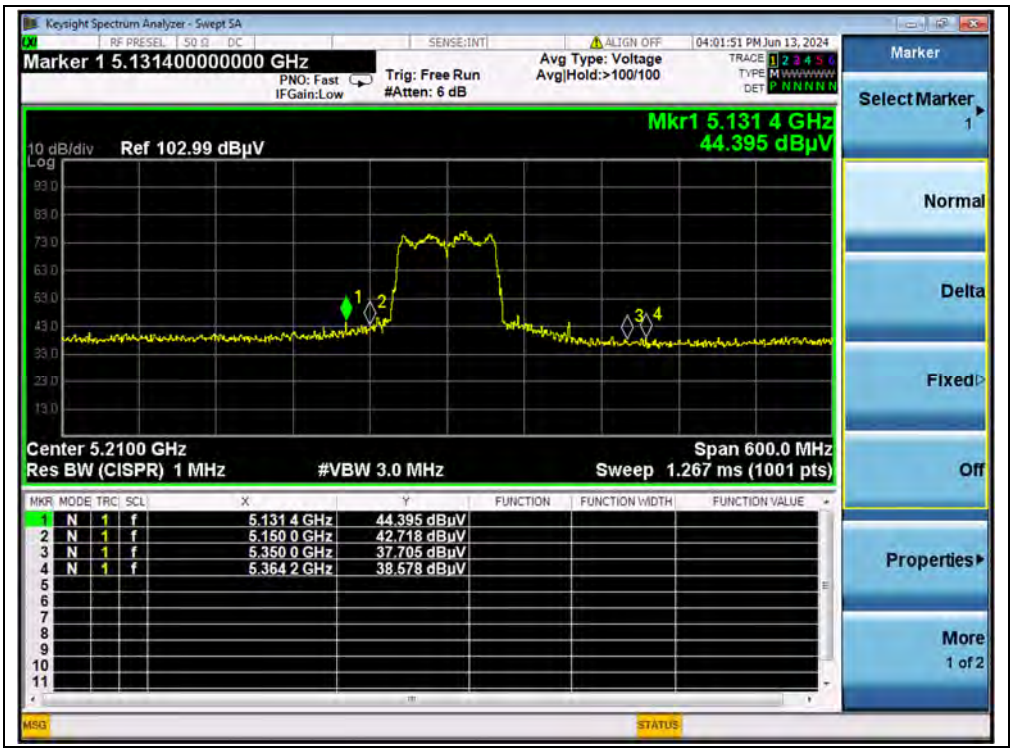
(PEAK, Channel 142, 802.11n (HT40))

(PEAK, Channel 151, 802.11n (HT40))

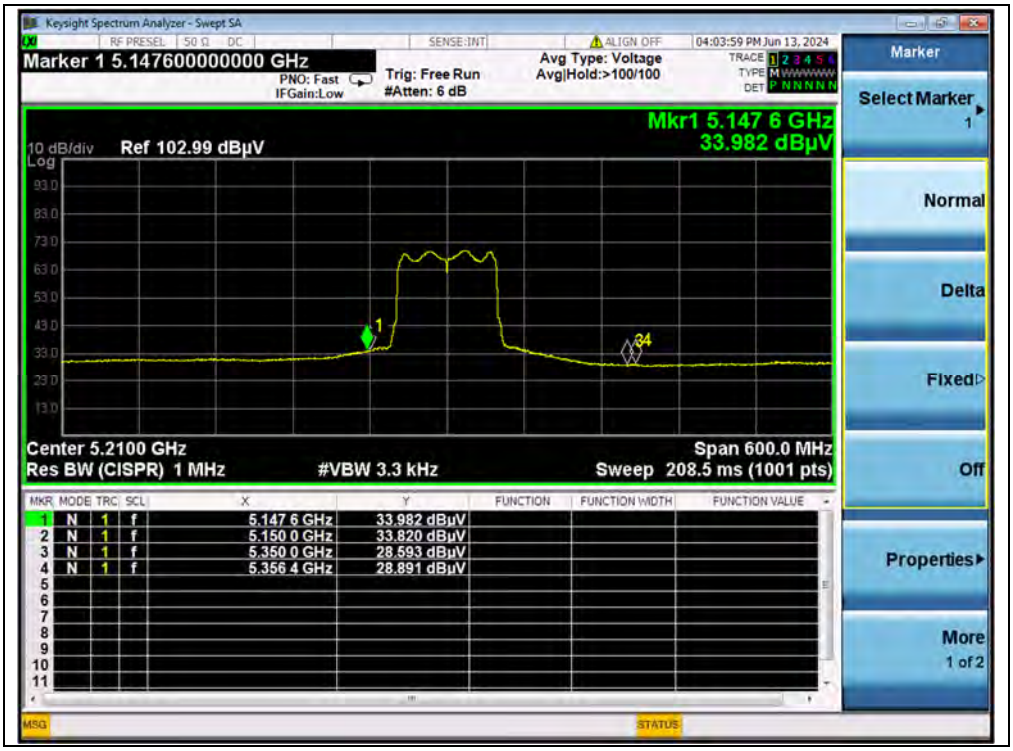
(PEAK, Channel 159, 802.11n (HT40))

802.11ac (VHT80) Mode

Channel	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						
42	5131.40	PK	44.40	-21.29	32.20	55.31	74	PASS
42	5147.60	AV	33.98	-21.29	32.20	44.89	54	PASS
58	5350.00	PK	45.11	-20.66	32.20	56.65	74	PASS
58	5350.00	AV	37.21	-20.66	32.20	48.75	54	PASS
106	5464.81	PK	48.70	-20.24	32.20	60.66	74	PASS
106	5459.51	AV	36.41	-20.24	32.20	48.37	54	PASS
138	5731.68	PK	40.99	-20.24	32.20	52.95	68.23	PASS
155	5720.00	PK	54.81	-21.11	32.20	65.90	110.83	PASS
155	5850.00	PK	46.85	-21.11	32.20	57.94	110.83	PASS



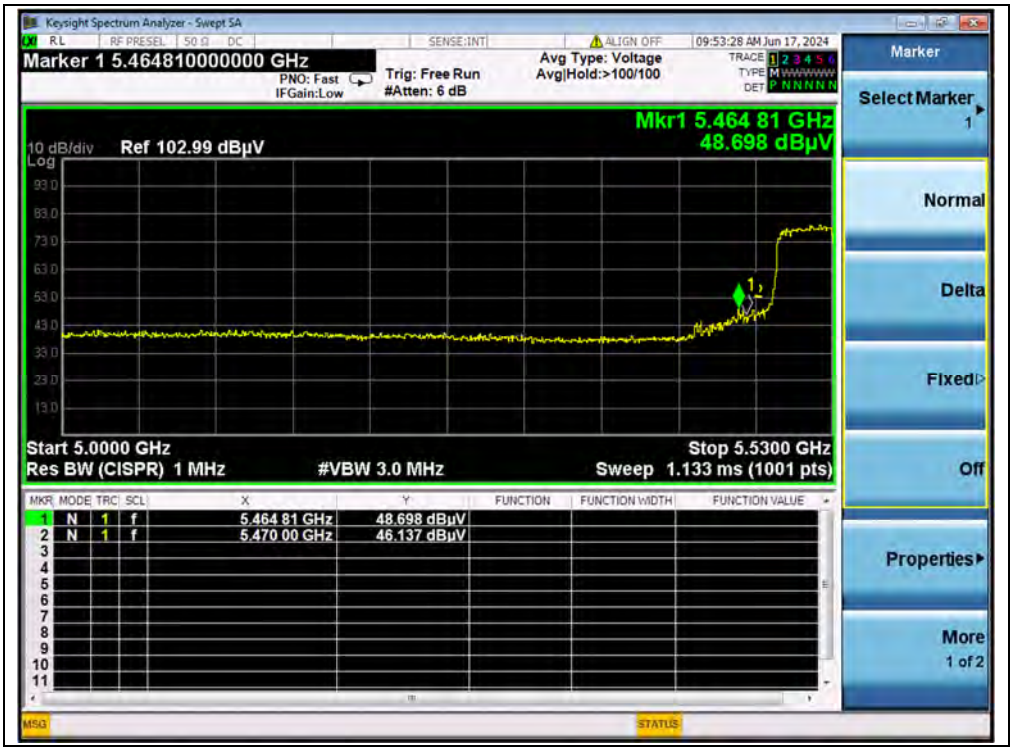
(PEAK, Channel 42, 802.11ac (VHT80))



(AVERAGE, Channel 42, 802.11ac (VHT80))

(PEAK, Channel 58, 802.11ac (VHT80))

(AVERAGE, Channel 58, 802.11ac (VHT80))



(PEAK, Channel 106, 802.11ac (VHT80))

(AVERAGE, Channel 106, 802.11ac (VHT80))

(PEAK, Channel 138, 802.11ac (VHT80))

(PEAK, Channel 155, 802.11ac (VHT80))

A.9. 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 (Y axis) test condition was recorded in this test report.

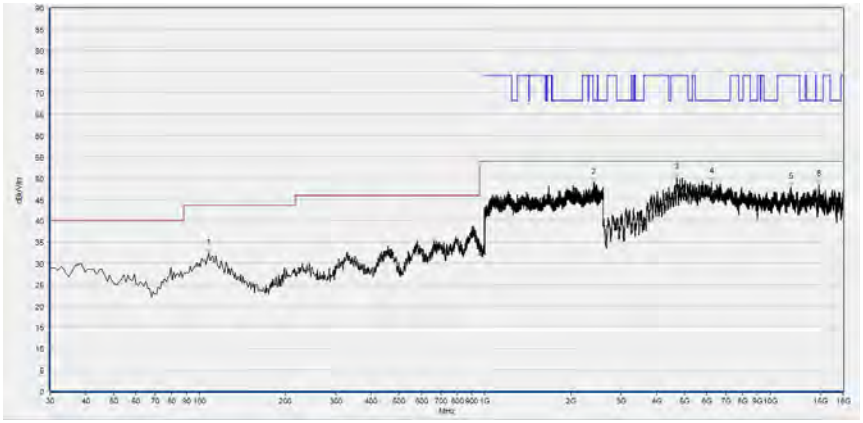
Note2: For the frequency, which started from 9kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit was not recorded.

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.

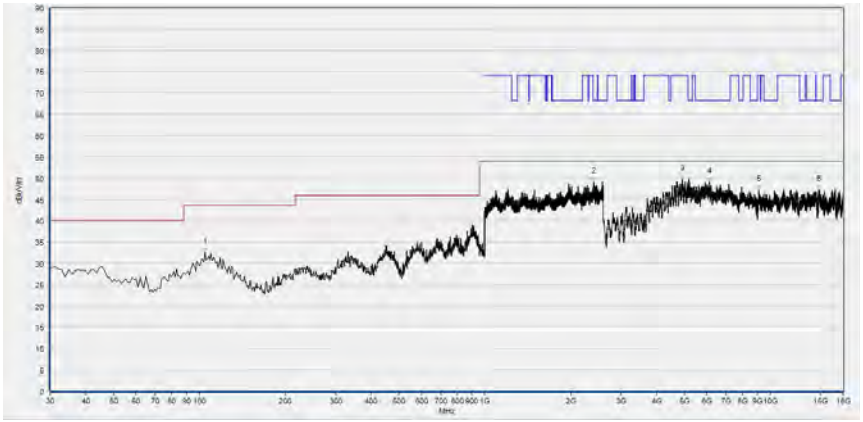
802.11a Mode

Plot for Channel 44



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	32.37	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2407.467	48.97	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
4712.880	50.07	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
6215.920	49.10	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
11796.880	47.96	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
14806.040	48.46	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

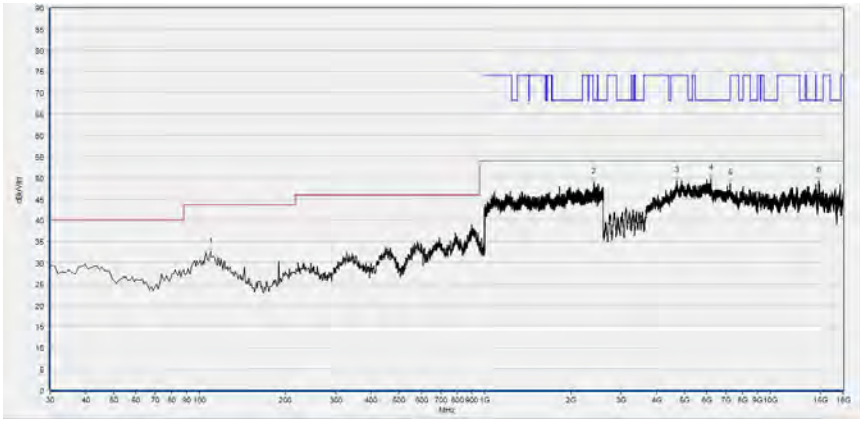
(Antenna Horizontal, 30MHz to 18GHz)



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	32.49	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2404.267	49.04	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
4928.480	49.84	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
6120.440	49.16	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
9132.680	47.27	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
14815.280	47.24	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

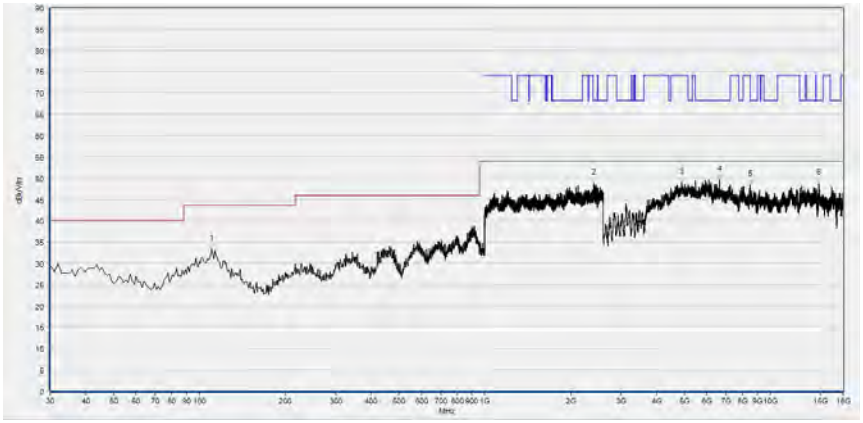
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 60



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	32.44	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2415.467	48.89	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
4700.560	49.35	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
6200.520	49.77	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
7223.080	48.59	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
14809.120	49.21	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

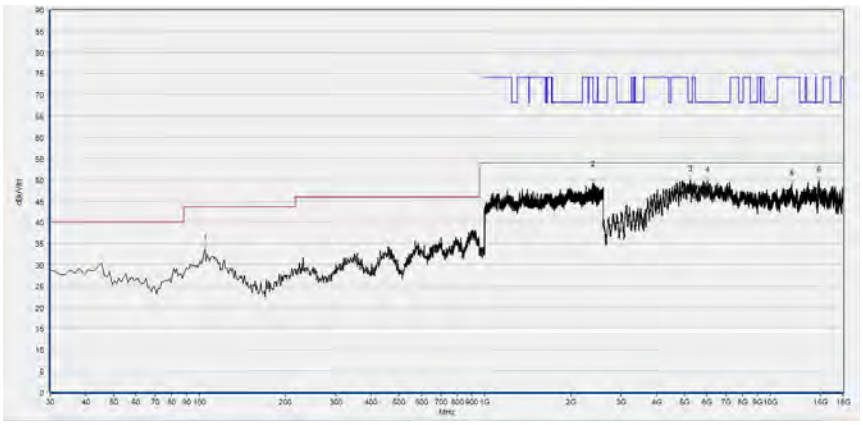
(Antenna Horizontal, 30MHz to 18GHz)



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	33.28	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2413.333	48.83	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
4903.840	49.02	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
6656.360	49.59	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
8501.280	48.49	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
14802.960	48.71	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

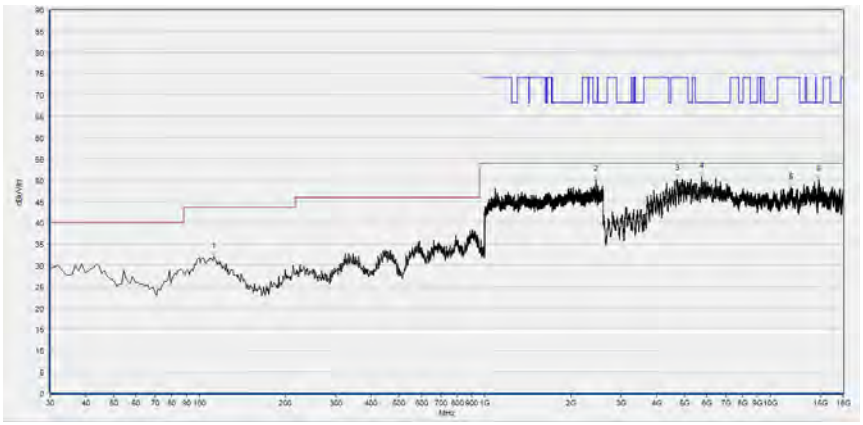
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 120



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	33.62	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2400.533	49.22	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5233.400	50.02	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
6028.040	49.85	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
11920.080	48.92	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
14824.520	49.77	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

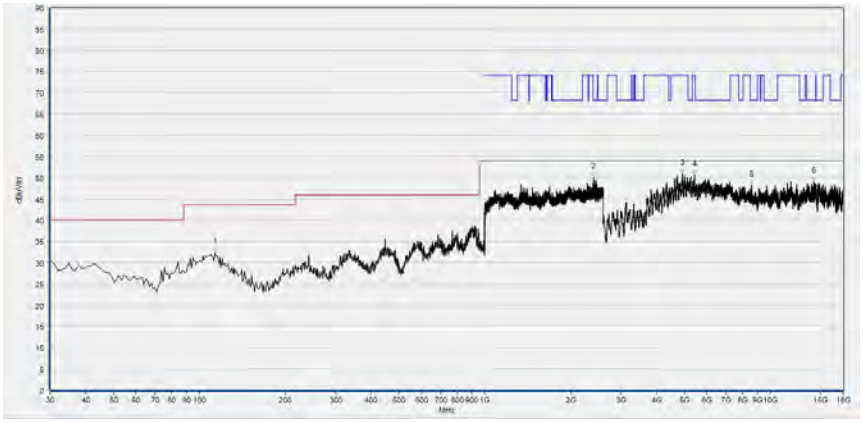
(Antenna Horizontal, 30MHz to 18GHz)



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	31.93	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2457.067	50.19	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4737.520	50.20	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5741.600	50.72	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
11806.120	48.22	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
14815.280	50.03	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

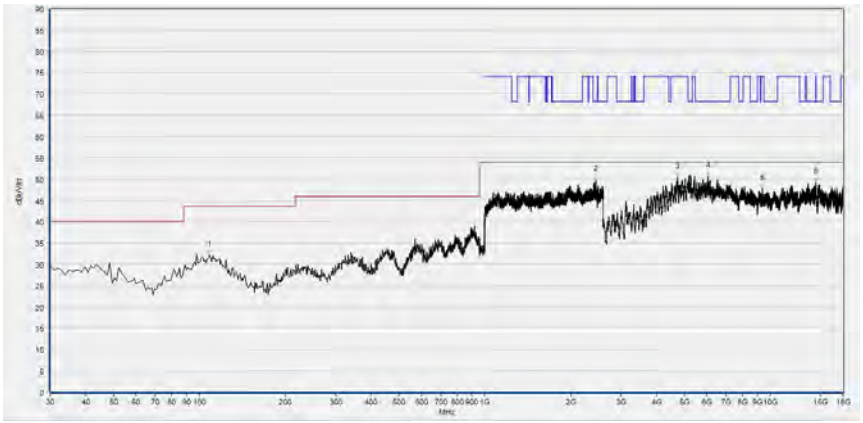
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 157



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	32.31	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2407.467	50.19	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
4913.080	51.00	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5421.280	50.54	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8587.520	48.35	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
14236.240	49.06	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

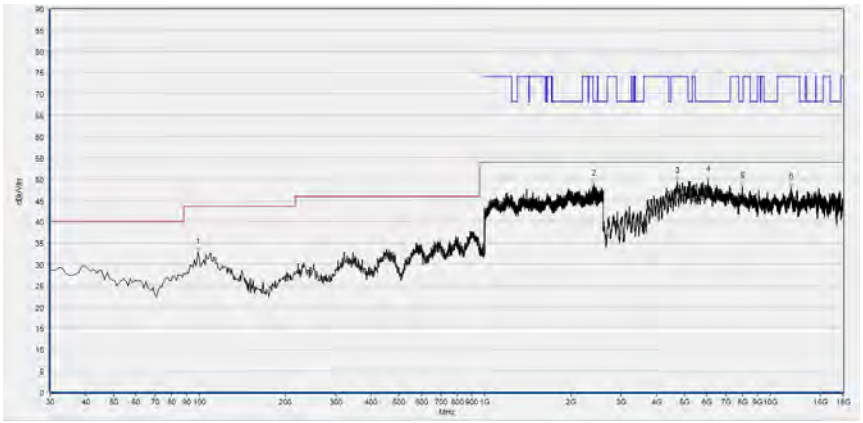


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
108.570	32.15	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2448.533	49.84	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
4734.440	50.41	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
6043.440	50.65	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
9394.480	47.69	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
14445.680	49.23	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

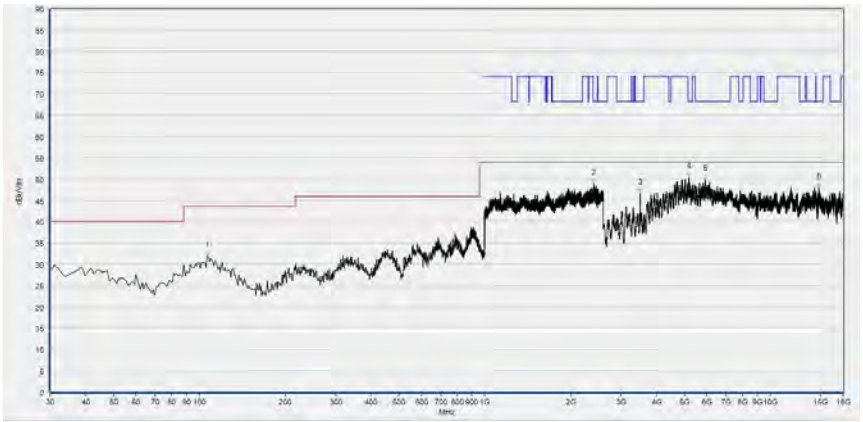
802.11n (HT40) mode

Plot for Channel 46



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
98.870	32.78	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2408.000	48.82	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
4731.360	49.43	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
6055.760	49.85	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
7965.360	48.18	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
11799.960	48.13	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

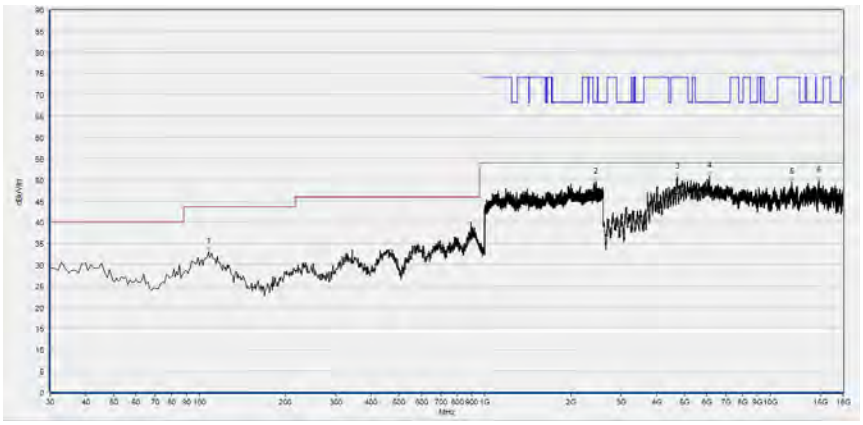
(Antenna Horizontal, 30MHz to 18GHz)



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	32.02	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2408.533	48.92	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
3496.280	46.77	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5174.880	50.46	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5907.920	49.87	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
14769.080	48.04	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

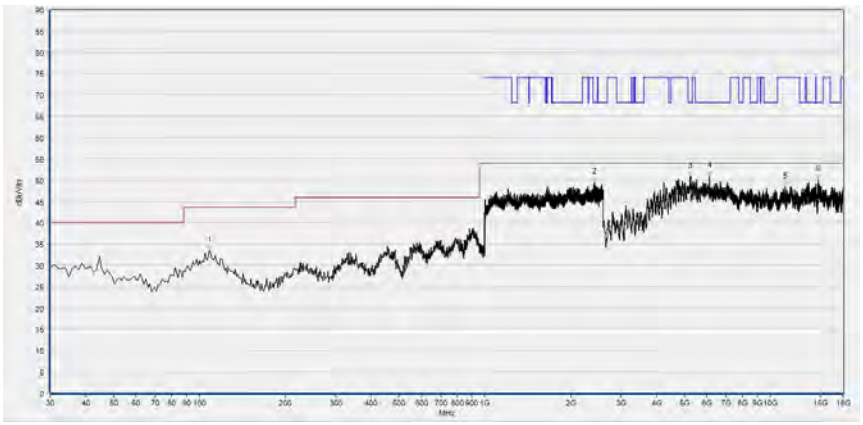
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 62



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	32.97	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2448.533	49.37	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
4715.960	50.65	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
6120.440	50.70	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
11870.800	49.47	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
14806.040	49.74	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

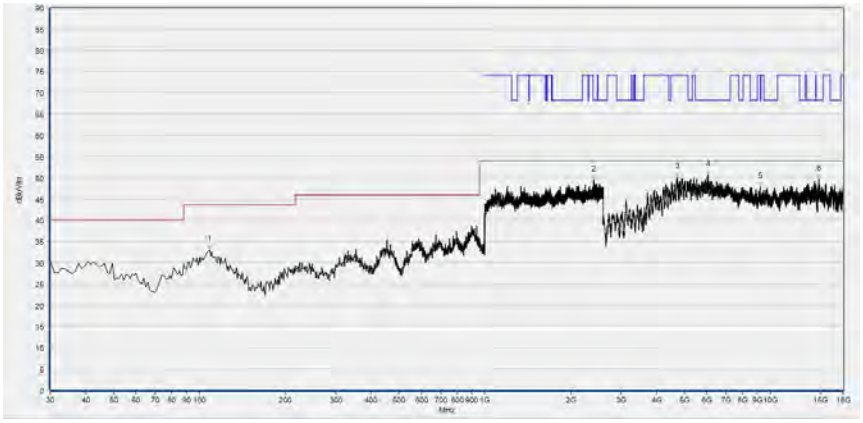
(Antenna Horizontal, 30MHz to 18GHz)



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	33.57	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2417.067	49.47	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5230.320	50.83	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
6135.840	50.98	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
11282.520	48.51	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
14753.680	50.09	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

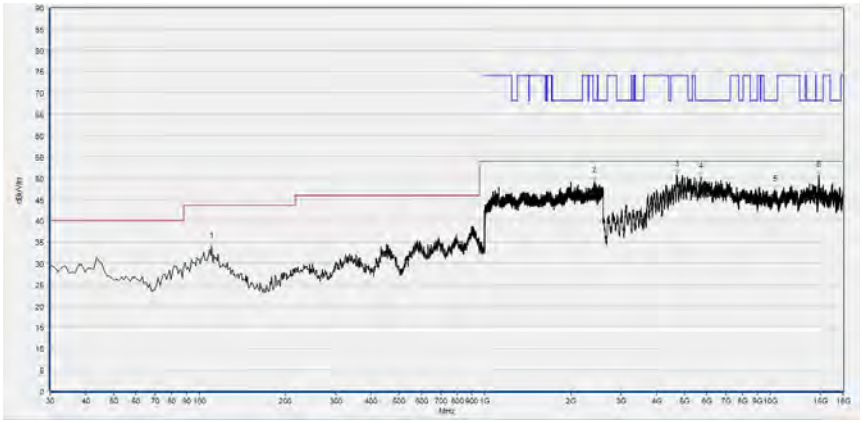
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 126



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	32.94	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2410.133	49.44	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
4728.280	50.04	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
6043.440	50.65	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
9200.440	47.90	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
14806.040	49.58	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

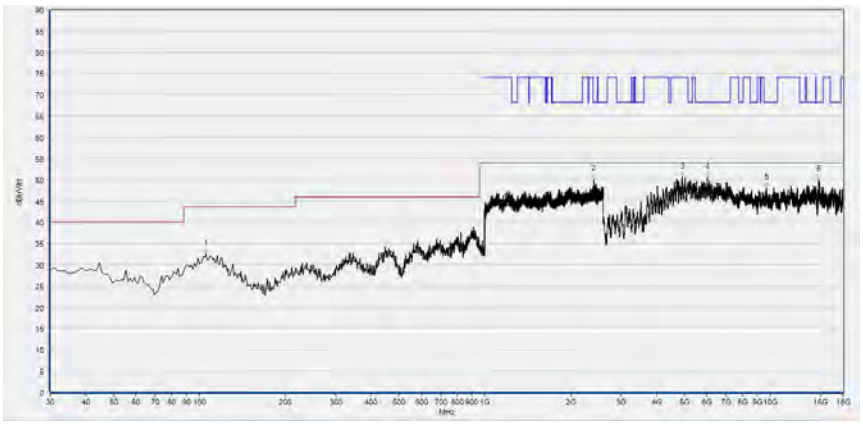
(Antenna Horizontal, 30MHz to 18GHz)



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	33.89	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2416.000	49.31	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
4700.560	50.73	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5701.560	50.26	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
10389.320	47.28	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
14796.800	50.54	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

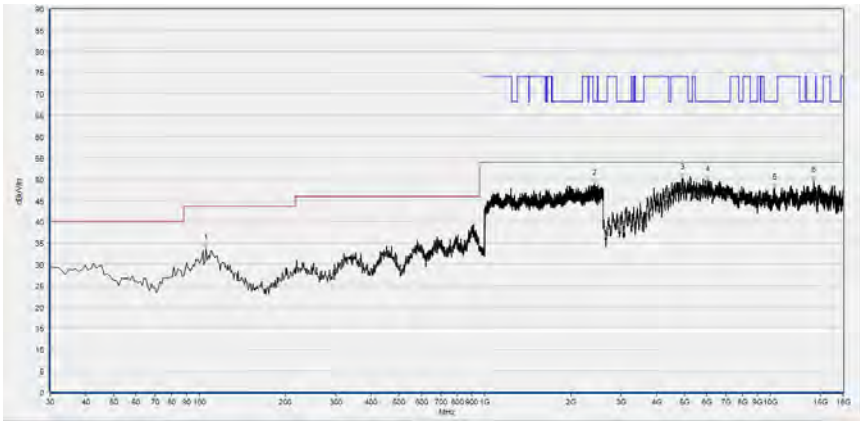
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 159



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	32.51	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2410.133	50.06	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
4916.160	50.70	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
6031.120	50.42	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
9733.280	48.03	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
14818.360	50.01	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

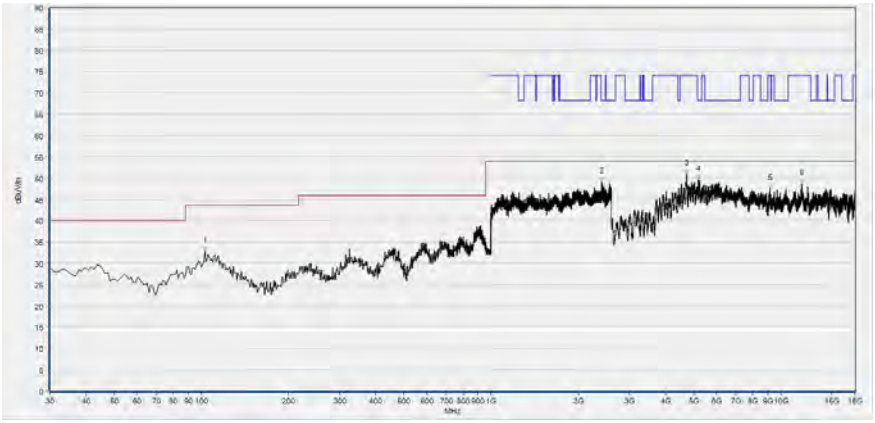


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
105.660	33.73	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2419.733	49.00	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
4931.560	50.20	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
6024.960	49.82	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
10327.720	48.01	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
14186.960	49.56	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

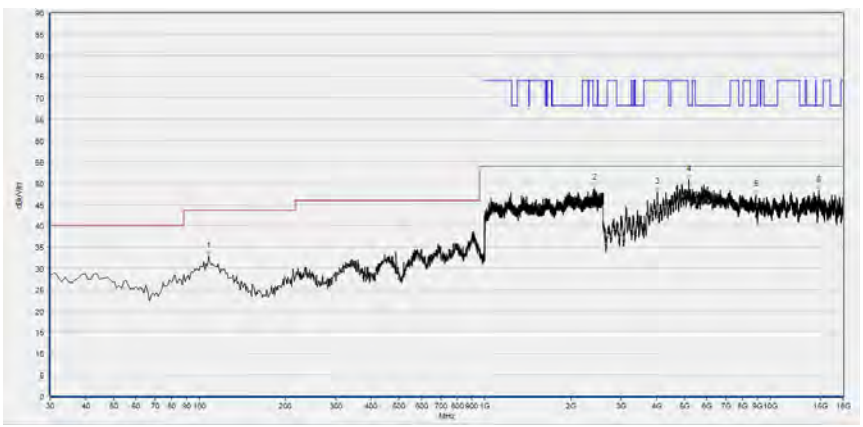
802.11ac (VHT80) Mode

Plot for Channel 42



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
102.750	32.90	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2406.933	49.07	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
4719.040	51.01	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5184.120	49.59	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
9148.080	47.57	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
11803.040	48.64	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

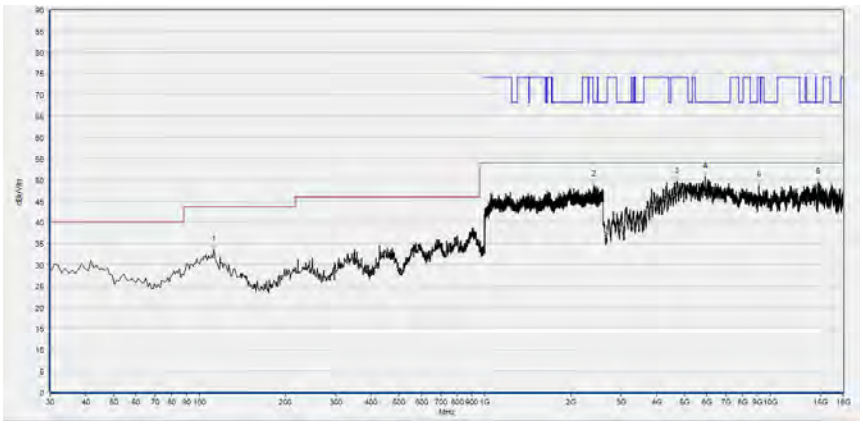
(Antenna Horizontal, 30MHz to 18GHz)



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	32.80	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2416.000	48.74	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
4016.800	47.96	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5184.120	50.72	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
8917.080	47.20	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
14809.120	48.30	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

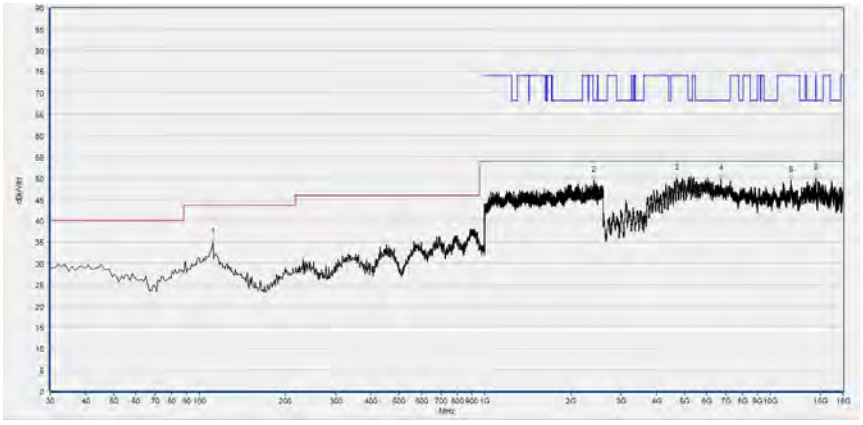
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 58



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	33.50	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2412.267	48.76	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
4706.720	49.56	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5926.400	50.56	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
9141.920	48.57	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
14747.520	49.50	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

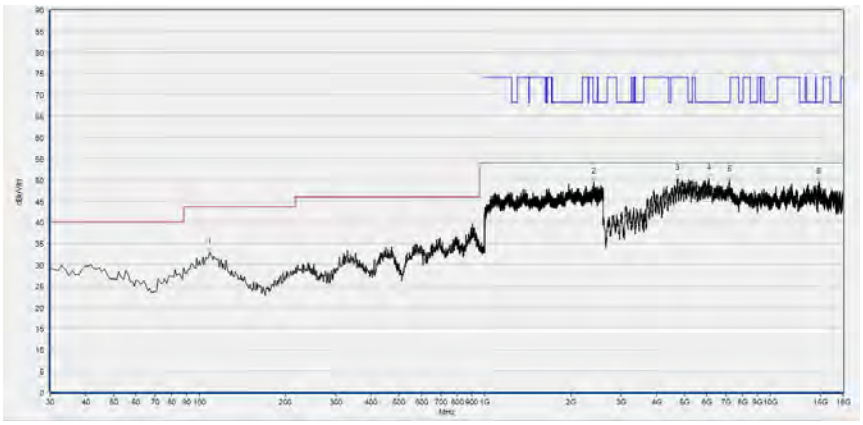
(Antenna Horizontal, 30MHz to 18GHz)



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	34.79	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2413.333	49.39	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
4706.720	49.98	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
6724.120	49.84	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
11799.960	49.43	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
14461.080	49.88	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

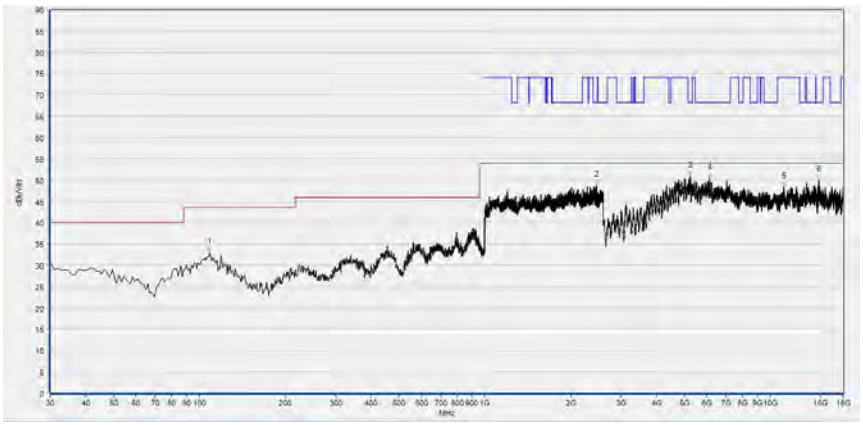
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 122



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	32.85	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2414.933	49.39	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
4731.360	50.27	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
6095.800	50.36	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
7195.360	49.99	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
14802.960	49.50	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

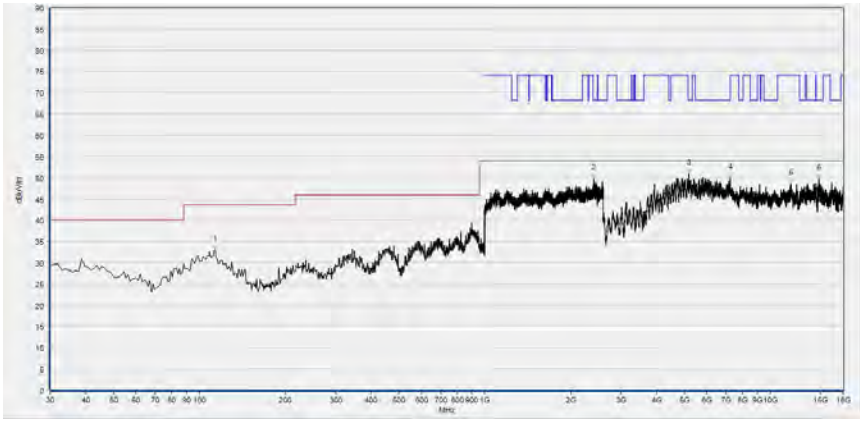
(Antenna Horizontal, 30MHz to 18GHz)



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	33.01	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2466.133	48.72	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5258.040	50.95	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
6126.600	50.40	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
11174.720	48.46	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
14824.520	49.98	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

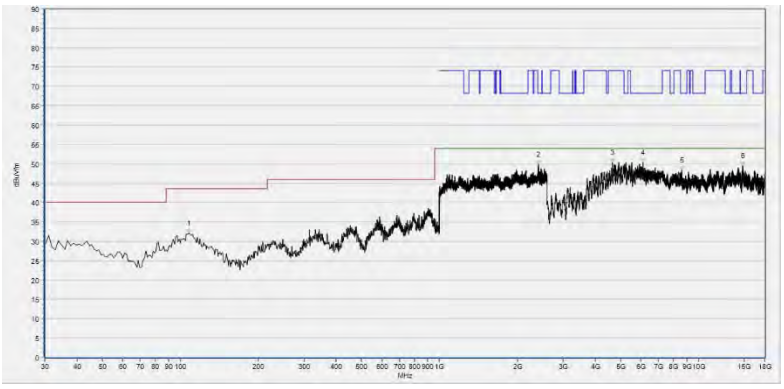
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 155



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	32.95	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2406.933	49.86	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5187.200	50.87	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
7226.160	49.88	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
11827.680	48.59	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
14769.080	49.81	N/A	N/A	68.23	N/A	N/A	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	31.97	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2410.667	49.81	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
4638.960	50.27	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
6108.120	50.22	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
8587.520	48.27	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
14827.600	49.37	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

END OF REPORT