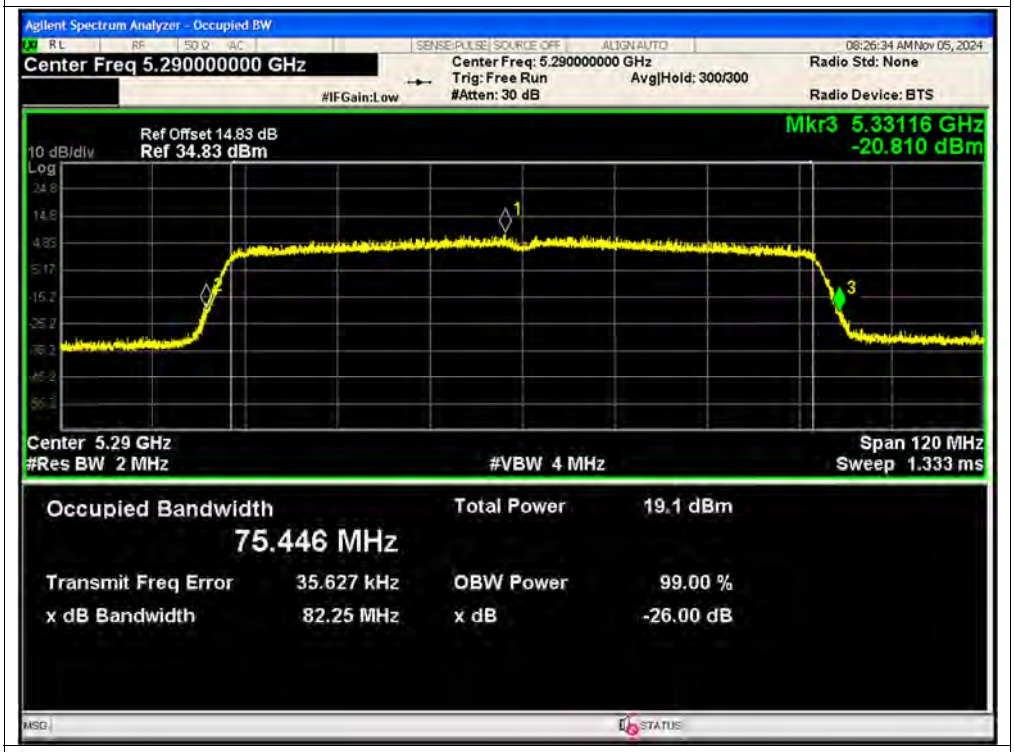
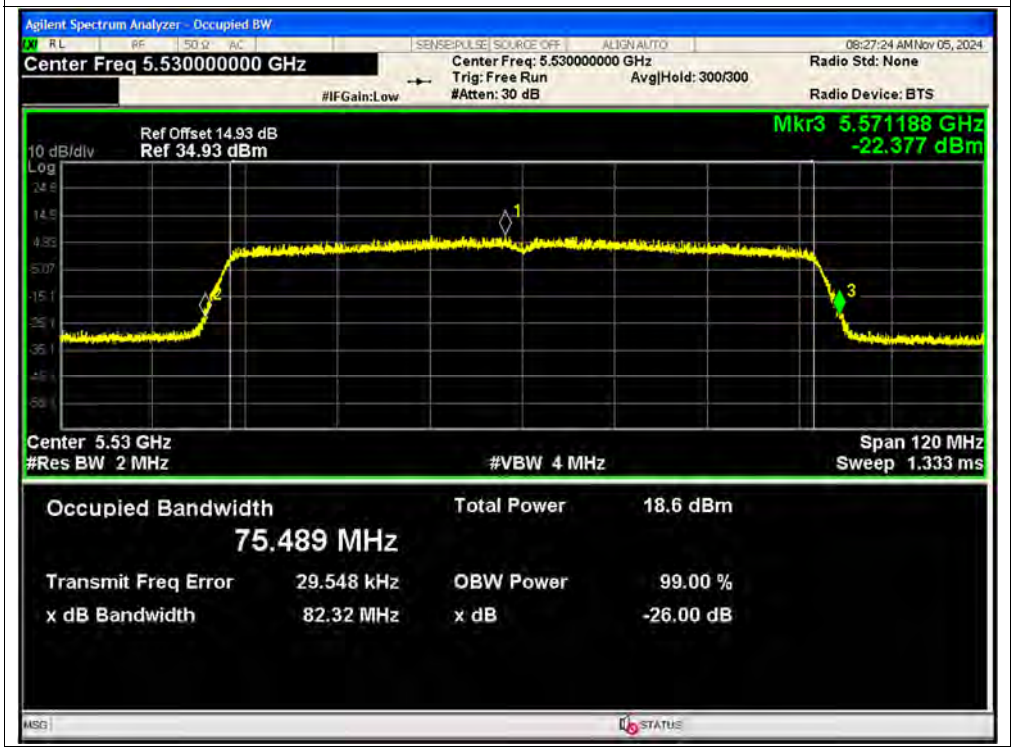
-26dB Bandwidth NVNT ac80 5290MHz Ant1 SISO



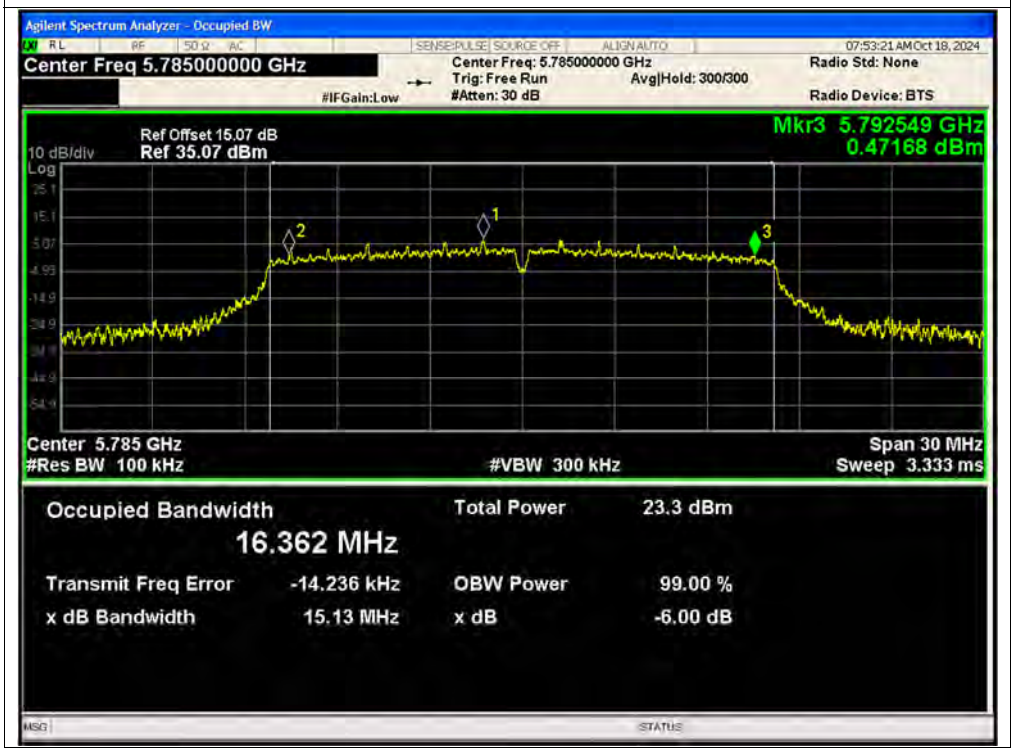
-26dB Bandwidth NVNT ac80 5530MHz Ant1 SISO



-26dB Bandwidth NVNT ac80 5610MHz Ant1 SISO

Test Graphs
-6dB Bandwidth NVNT a 5745MHz Ant1 SISO

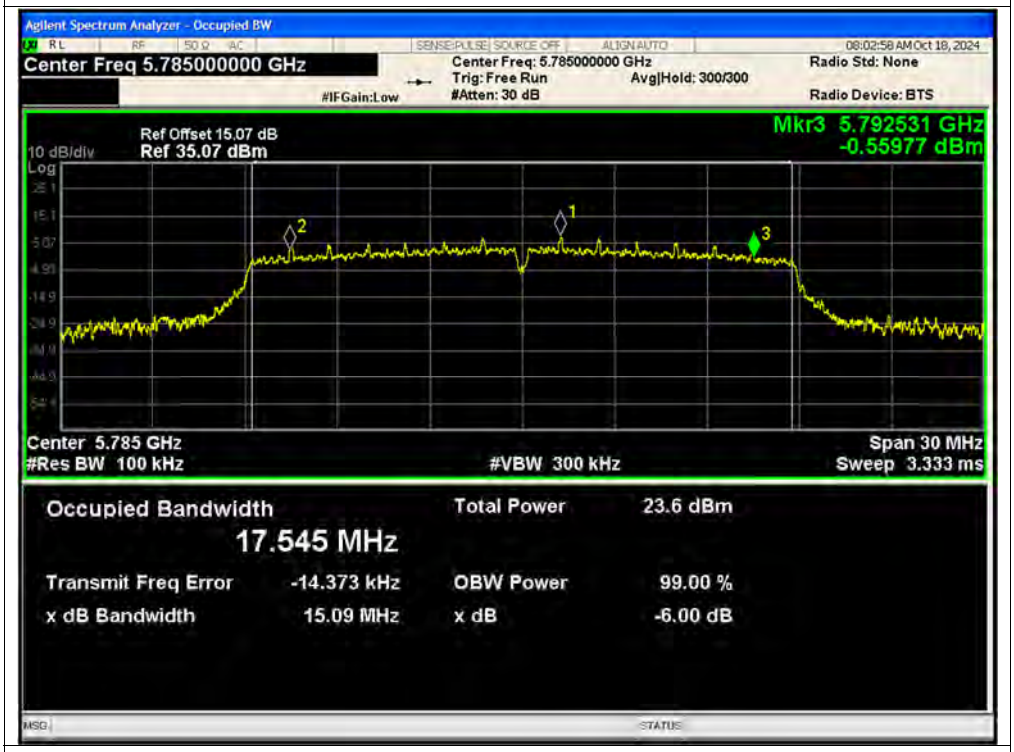
-6dB Bandwidth NVNT a 5785MHz Ant1 SISO



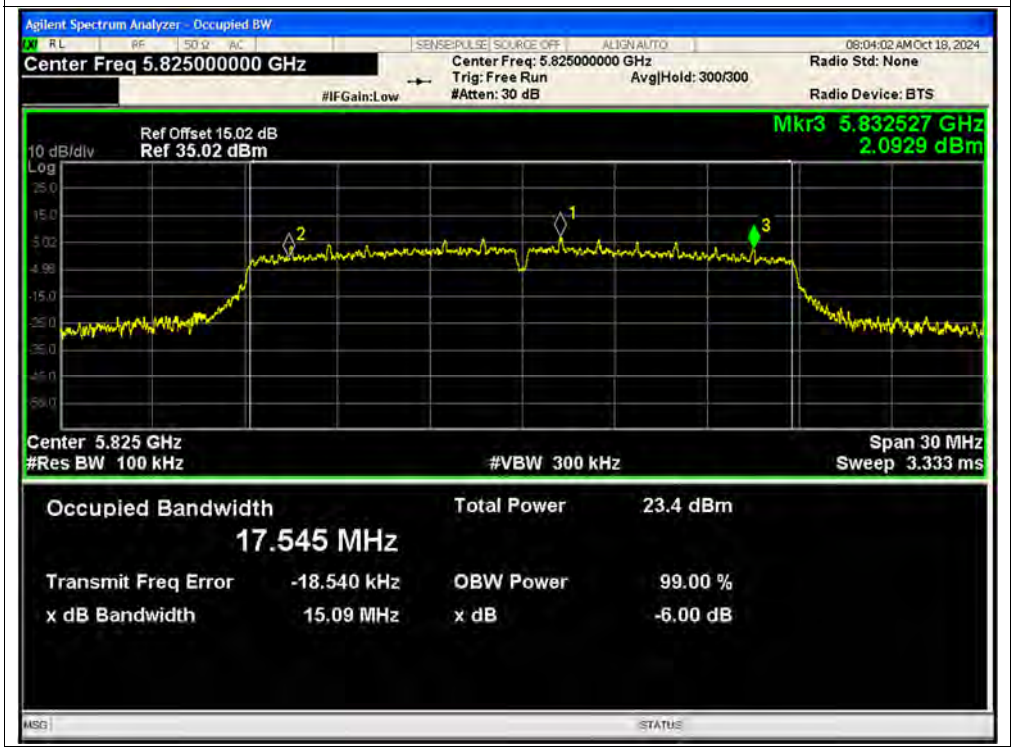
-6dB Bandwidth NVNT a 5825MHz Ant1 SISO

-6dB Bandwidth NVNT n20 5745MHz Ant1 SISO

-6dB Bandwidth NVNT n20 5785MHz Ant1 SISO



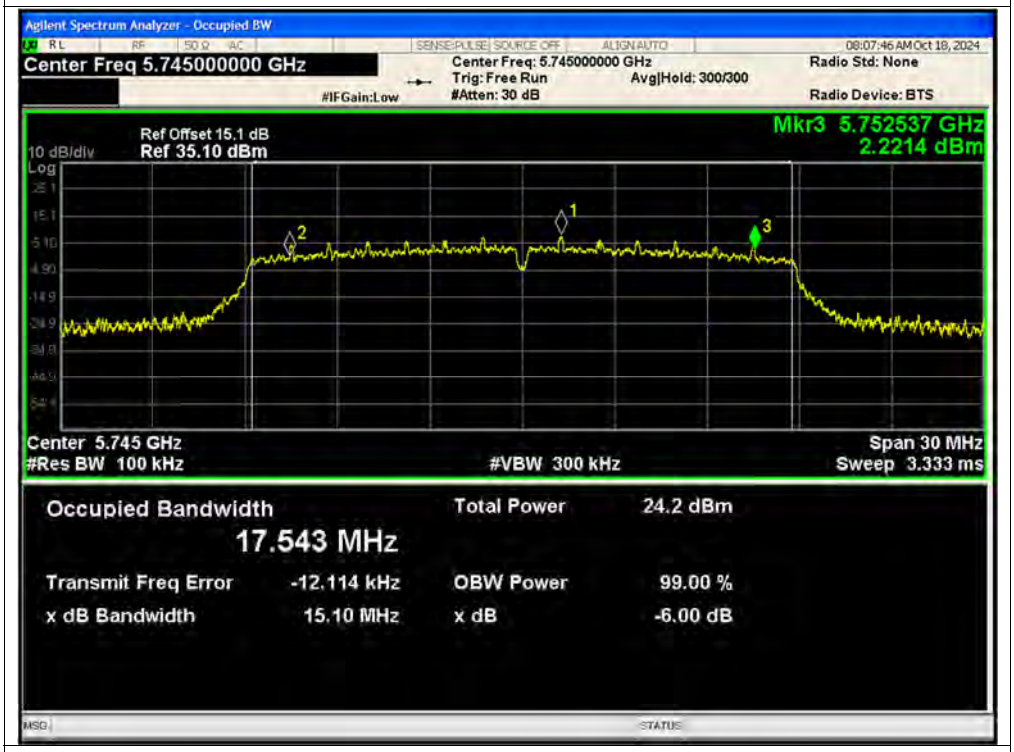
-6dB Bandwidth NVNT n20 5825MHz Ant1 SISO



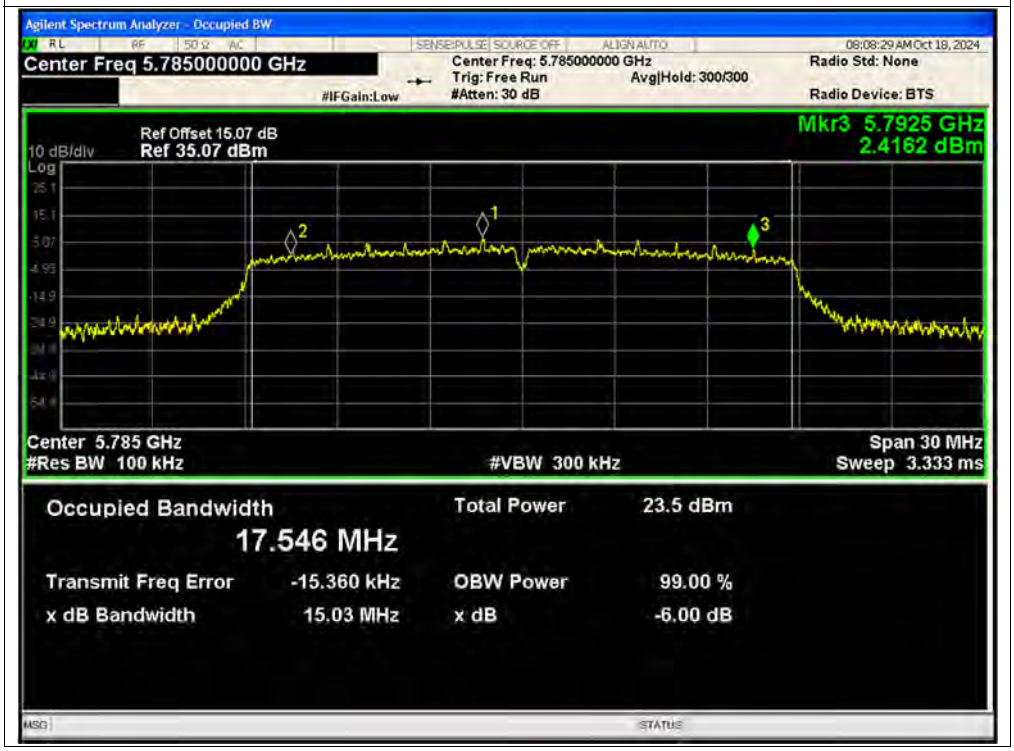
-6dB Bandwidth NVNT n40 5755MHz Ant1 SISO

-6dB Bandwidth NVNT n40 5795MHz Ant1 SISO

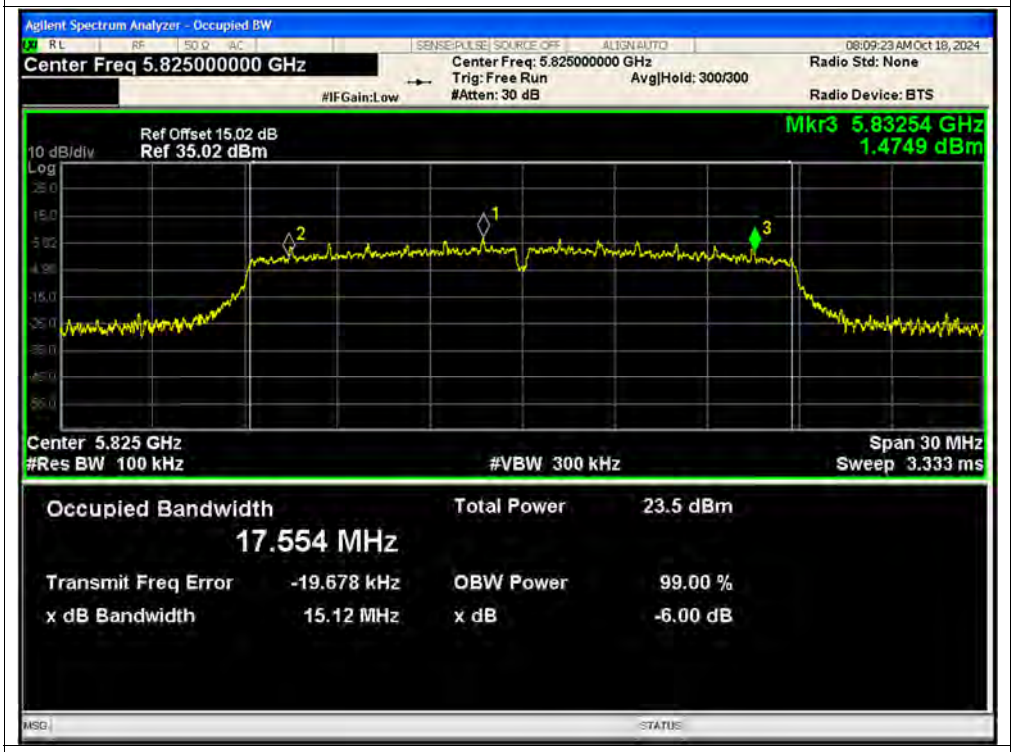
-6dB Bandwidth NVNT ac20 5745MHz Ant1 SISO



-6dB Bandwidth NVNT ac20 5785MHz Ant1 SISO



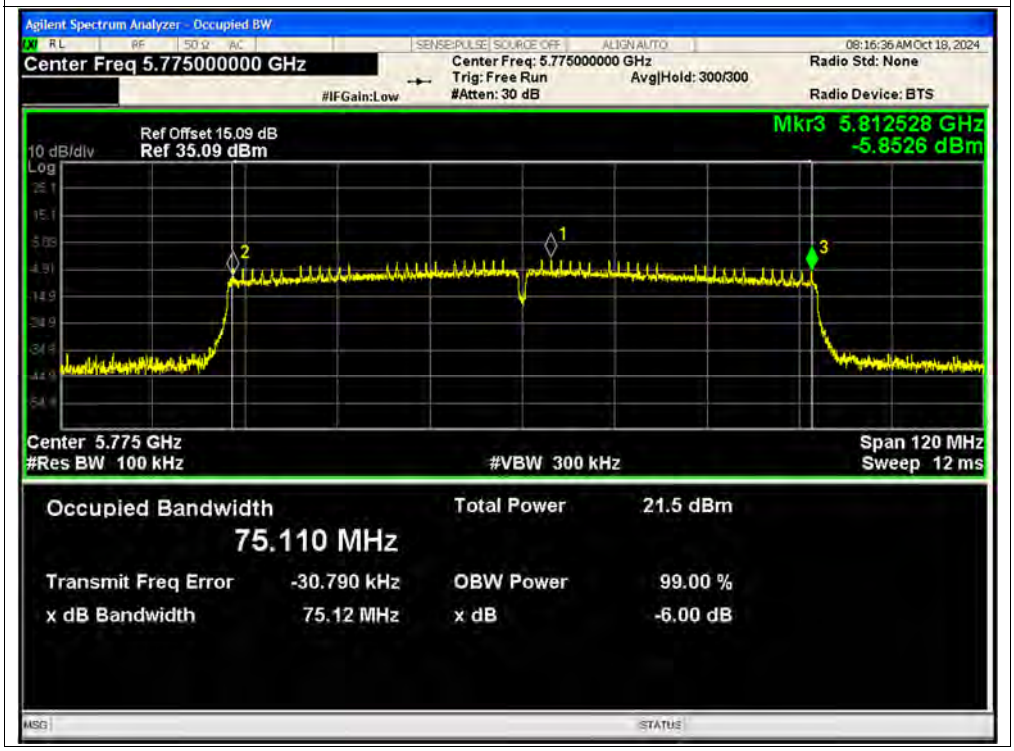
-6dB Bandwidth NVNT ac20 5825MHz Ant1 SISO



-6dB Bandwidth NVNT ac40 5755MHz Ant1 SISO

-6dB Bandwidth NVNT ac40 5795MHz Ant1 SISO

-6dB Bandwidth NVNT ac80 5775MHz Ant1 SISO



A.4. Peak Power Spectral Density

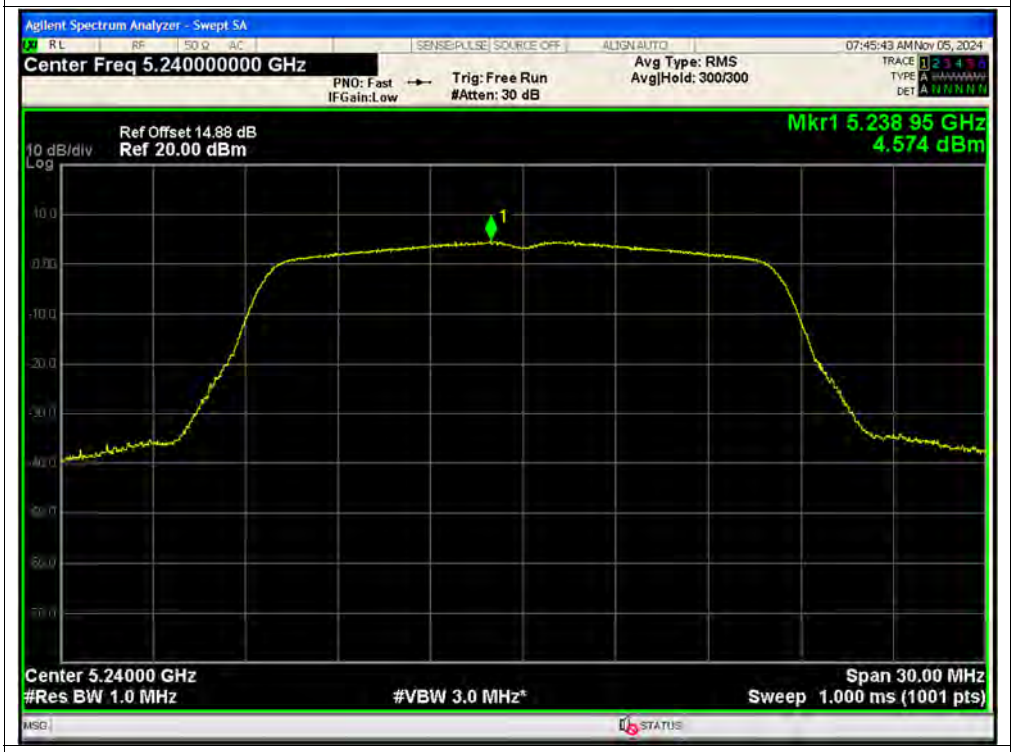
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	4.09	0.15	4.24	11	Pass
NVNT	a	5220	Ant1	4.95	0.12	5.07	11	Pass
NVNT	a	5240	Ant1	4.57	0.15	4.72	11	Pass
NVNT	a	5260	Ant1	7.53	0.15	7.68	11	Pass
NVNT	a	5300	Ant1	6.87	0.15	7.02	11	Pass
NVNT	a	5320	Ant1	3.72	0.12	3.84	11	Pass
NVNT	a	5500	Ant1	0.74	0.15	0.89	11	Pass
NVNT	a	5580	Ant1	7.47	0.12	7.59	11	Pass
NVNT	a	5700	Ant1	7.71	0.12	7.83	11	Pass
NVNT	a	5745	Ant1	4.16	0.12	4.28	30	Pass
NVNT	a	5785	Ant1	3.78	0.12	3.9	30	Pass
NVNT	a	5825	Ant1	3.95	0.12	4.07	30	Pass
NVNT	n20	5180	Ant1	3.64	0.16	3.8	11	Pass
NVNT	n20	5220	Ant1	4.68	0.16	4.84	11	Pass
NVNT	n20	5240	Ant1	4.15	0.13	4.28	11	Pass
NVNT	n20	5260	Ant1	7.63	0.16	7.79	11	Pass
NVNT	n20	5300	Ant1	6.5	0.16	6.66	11	Pass
NVNT	n20	5320	Ant1	3.55	0.16	3.71	11	Pass
NVNT	n20	5500	Ant1	0.35	0.16	0.51	11	Pass
NVNT	n20	5580	Ant1	7.77	0.13	7.9	11	Pass
NVNT	n20	5700	Ant1	-0.08	0.13	0.05	11	Pass
NVNT	n20	5745	Ant1	3.91	0.16	4.07	30	Pass
NVNT	n20	5785	Ant1	3.81	0.16	3.97	30	Pass
NVNT	n20	5825	Ant1	3.49	0.16	3.65	30	Pass
NVNT	n40	5190	Ant1	-0.41	0.26	-0.15	11	Pass
NVNT	n40	5230	Ant1	1.69	0.26	1.95	11	Pass
NVNT	n40	5270	Ant1	2	0.32	2.32	11	Pass
NVNT	n40	5310	Ant1	-1.25	0.32	-0.93	11	Pass
NVNT	n40	5510	Ant1	-3.71	0.26	-3.45	11	Pass
NVNT	n40	5550	Ant1	1.84	0.33	2.17	11	Pass
NVNT	n40	5670	Ant1	-0.52	0.26	-0.26	11	Pass
NVNT	n40	5755	Ant1	-0.82	0.33	-0.49	30	Pass
NVNT	n40	5795	Ant1	-1.3	0.26	-1.04	30	Pass
NVNT	ac20	5180	Ant1	3.55	0.13	3.68	11	Pass

NVNT	ac20	5220	Ant1	4.65	0.13	4.78	11	Pass
NVNT	ac20	5240	Ant1	4.21	0.16	4.37	11	Pass
NVNT	ac20	5260	Ant1	7.67	0.13	7.8	11	Pass
NVNT	ac20	5300	Ant1	6.31	0.16	6.47	11	Pass
NVNT	ac20	5320	Ant1	3.23	0.13	3.36	11	Pass
NVNT	ac20	5500	Ant1	0.42	0.16	0.58	11	Pass
NVNT	ac20	5580	Ant1	7.48	0.13	7.61	11	Pass
NVNT	ac20	5700	Ant1	-0.06	0.16	0.1	11	Pass
NVNT	ac20	5745	Ant1	4.4	0.16	4.56	30	Pass
NVNT	ac20	5785	Ant1	4	0.13	4.13	30	Pass
NVNT	ac20	5825	Ant1	3.82	0.13	3.95	30	Pass
NVNT	ac40	5190	Ant1	-0.5	0.26	-0.24	11	Pass
NVNT	ac40	5230	Ant1	1.77	0.26	2.03	11	Pass
NVNT	ac40	5270	Ant1	2.02	0.32	2.34	11	Pass
NVNT	ac40	5310	Ant1	-1.07	0.26	-0.81	11	Pass
NVNT	ac40	5510	Ant1	-3.6	0.32	-3.28	11	Pass
NVNT	ac40	5550	Ant1	1.93	0.26	2.19	11	Pass
NVNT	ac40	5670	Ant1	-0.53	0.26	-0.27	11	Pass
NVNT	ac40	5755	Ant1	-1.22	0.26	-0.96	30	Pass
NVNT	ac40	5795	Ant1	-1.1	0.32	-0.78	30	Pass
NVNT	ac80	5210	Ant1	-4.33	0.63	-3.7	11	Pass
NVNT	ac80	5290	Ant1	-5.42	0.5	-4.92	11	Pass
NVNT	ac80	5530	Ant1	-5.84	0.51	-5.33	11	Pass
NVNT	ac80	5610	Ant1	-2.27	0.63	-1.64	11	Pass
NVNT	ac80	5775	Ant1	-4.51	0.5	-4.01	30	Pass

Test Graphs
PSD NVNT a 5180MHz Ant1 SISO

PSD NVNT a 5220MHz Ant1 SISO

PSD NVNT a 5240MHz Ant1 SISO

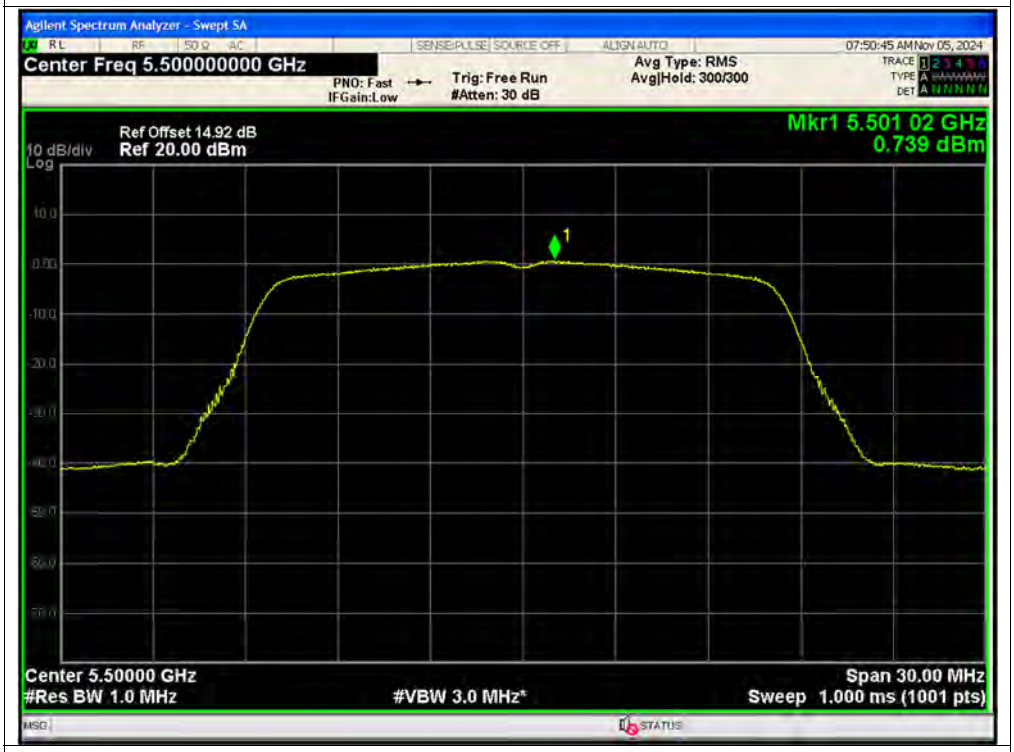


PSD NVNT a 5260MHz Ant1 SISO

PSD NVNT a 5300MHz Ant1 SISO

PSD NVNT a 5320MHz Ant1 SISO

PSD NVNT a 5500MHz Ant1 SISO



PSD NVNT a 5580MHz Ant1 SISO

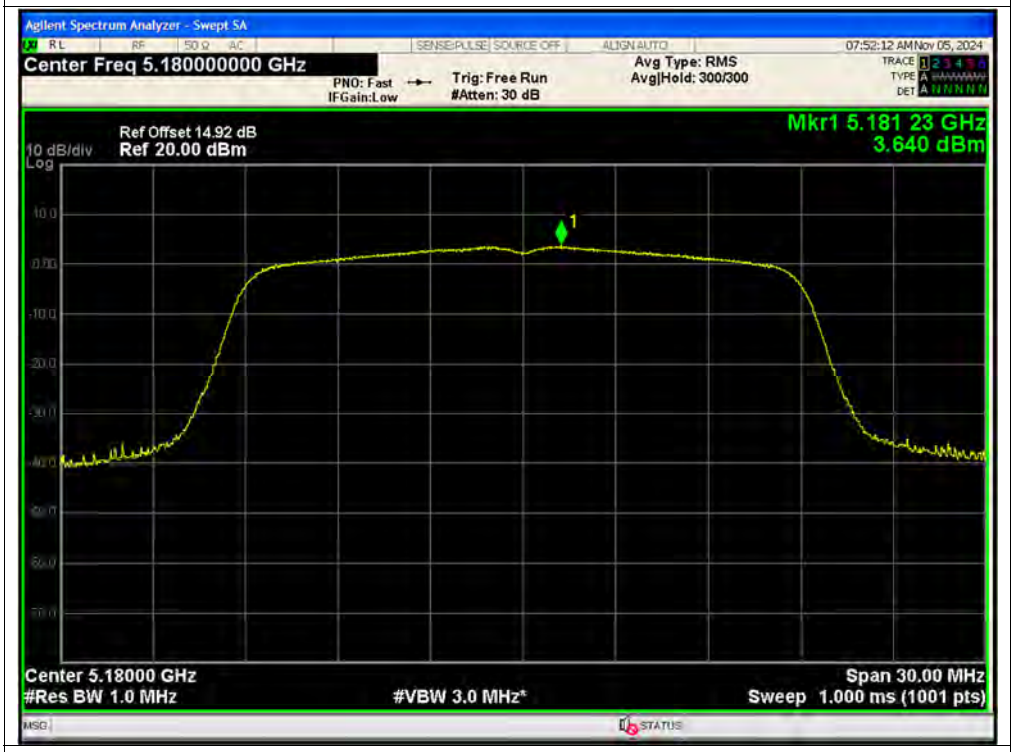
PSD NVNT a 5700MHz Ant1 SISO

PSD NVNT a 5745MHz Ant1 SISO

PSD NVNT a 5785MHz Ant1 SISO

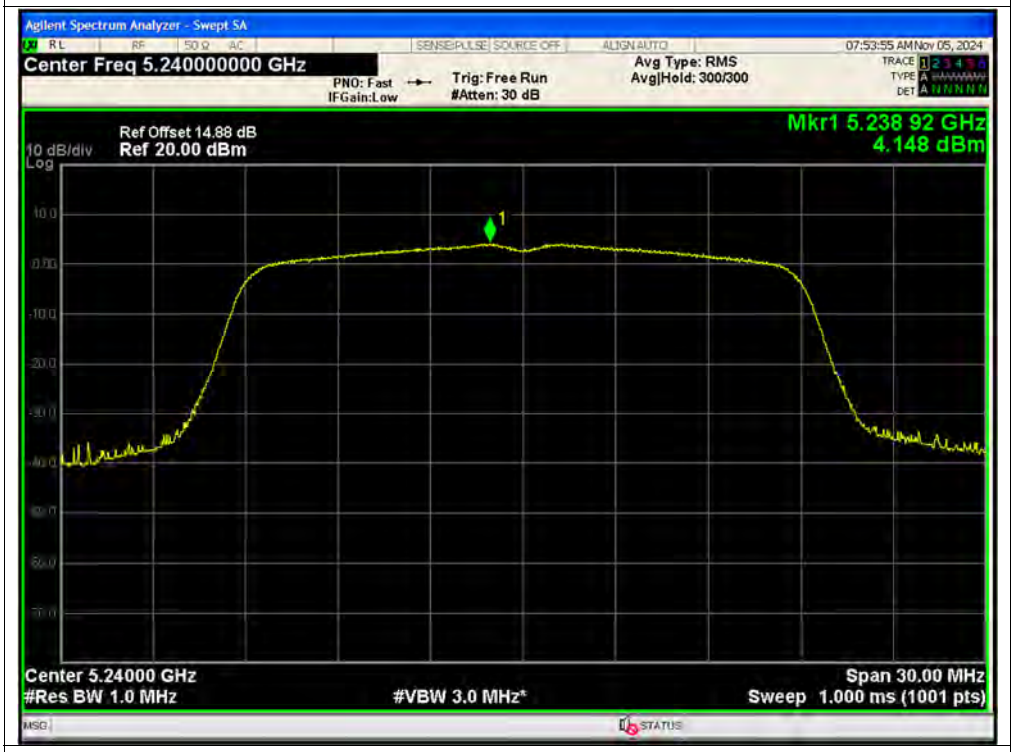
PSD NVNT a 5825MHz Ant1 SISO

PSD NVNT n20 5180MHz Ant1 SISO



PSD NVNT n20 5220MHz Ant1 SISO

PSD NVNT n20 5240MHz Ant1 SISO



PSD NVNT n20 5260MHz Ant1 SISO

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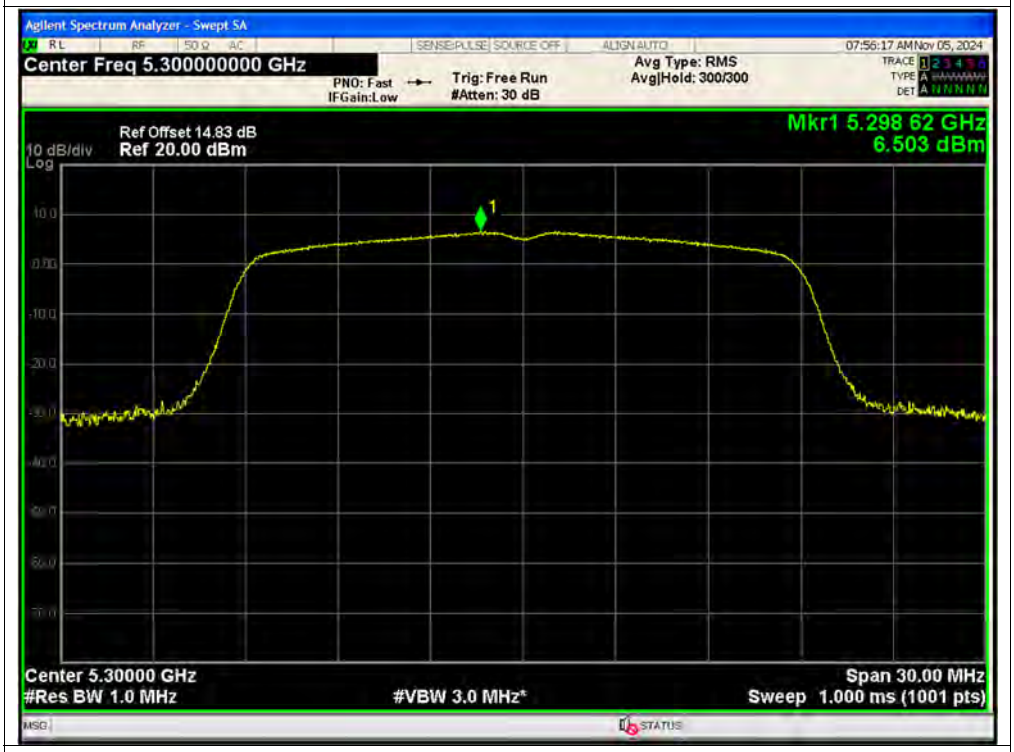
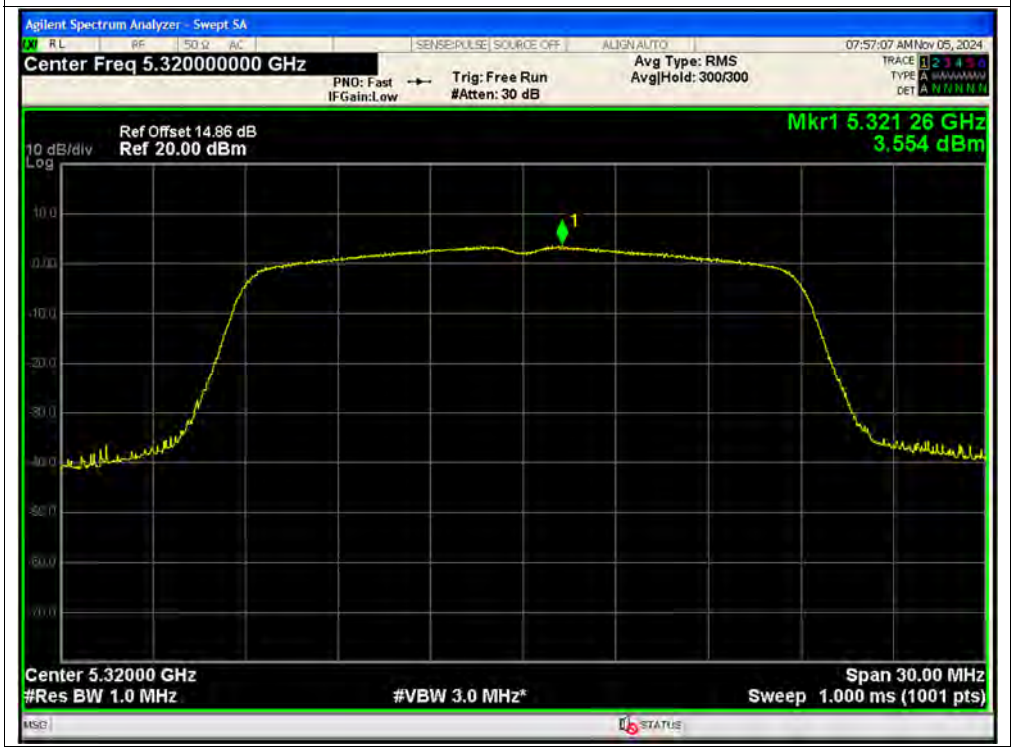
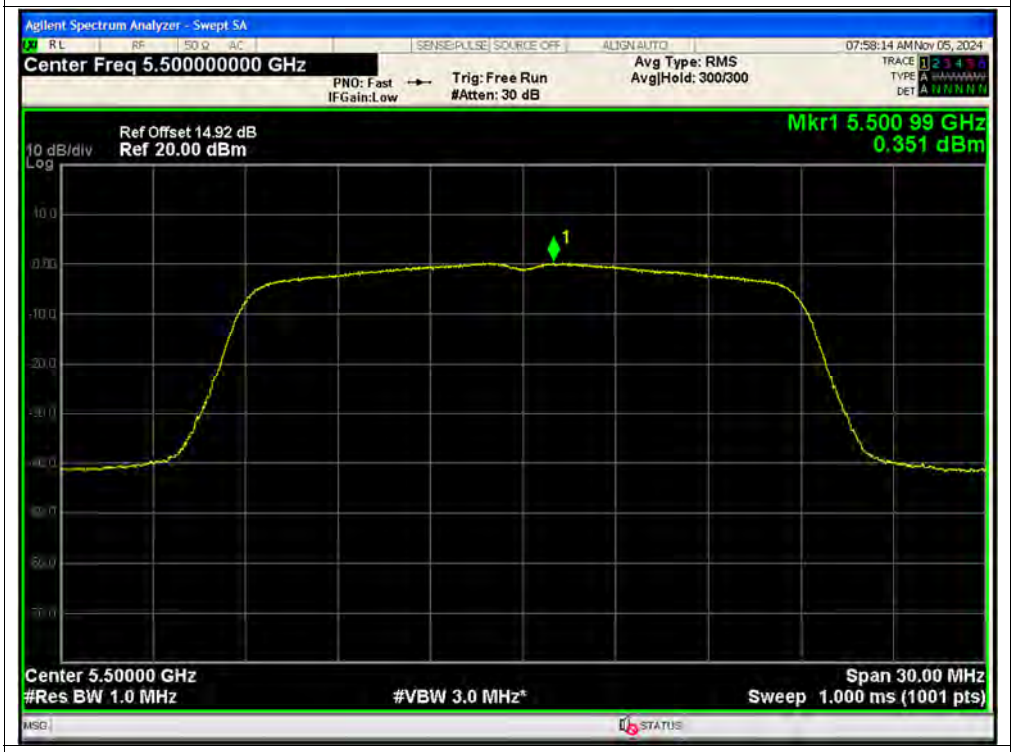


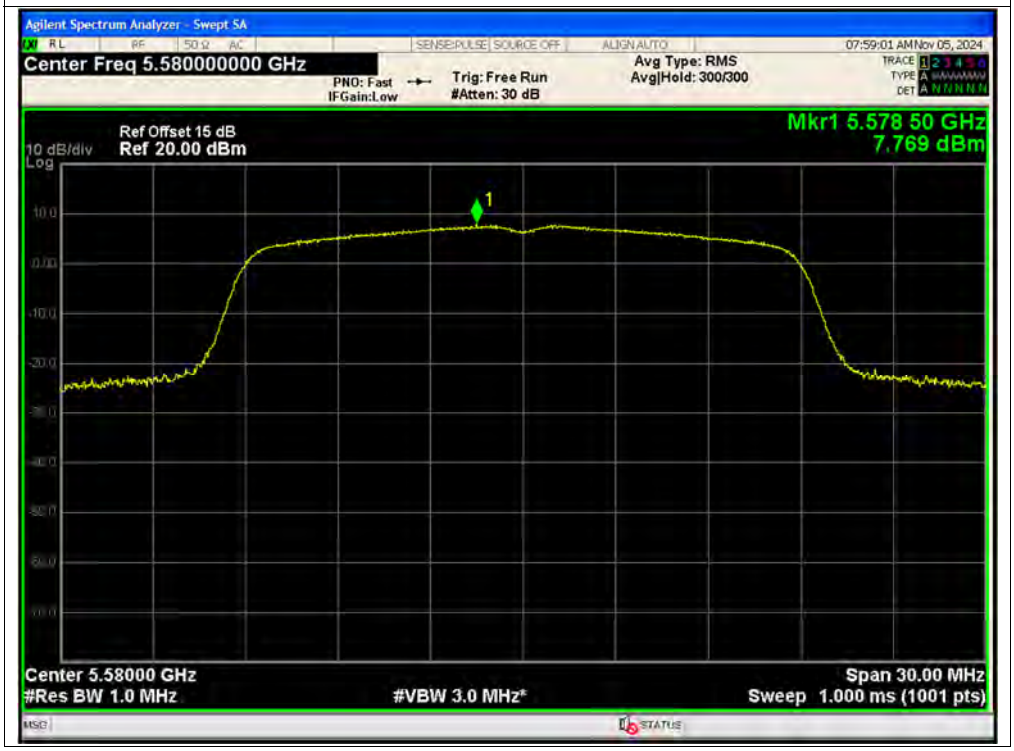
PSD NVNT n20 5320MHz Ant1 SISO



PSD NVNT n20 5500MHz Ant1 SISO



PSD NVNT n20 5580MHz Ant1 SISO

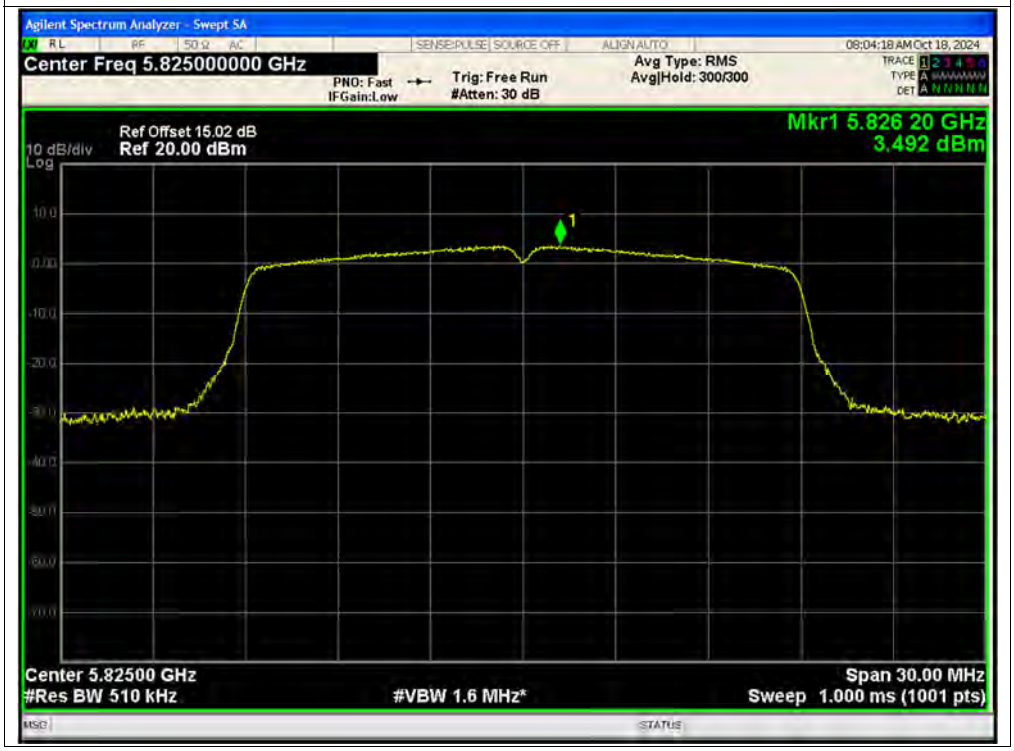


PSD NVNT n20 5700MHz Ant1 SISO

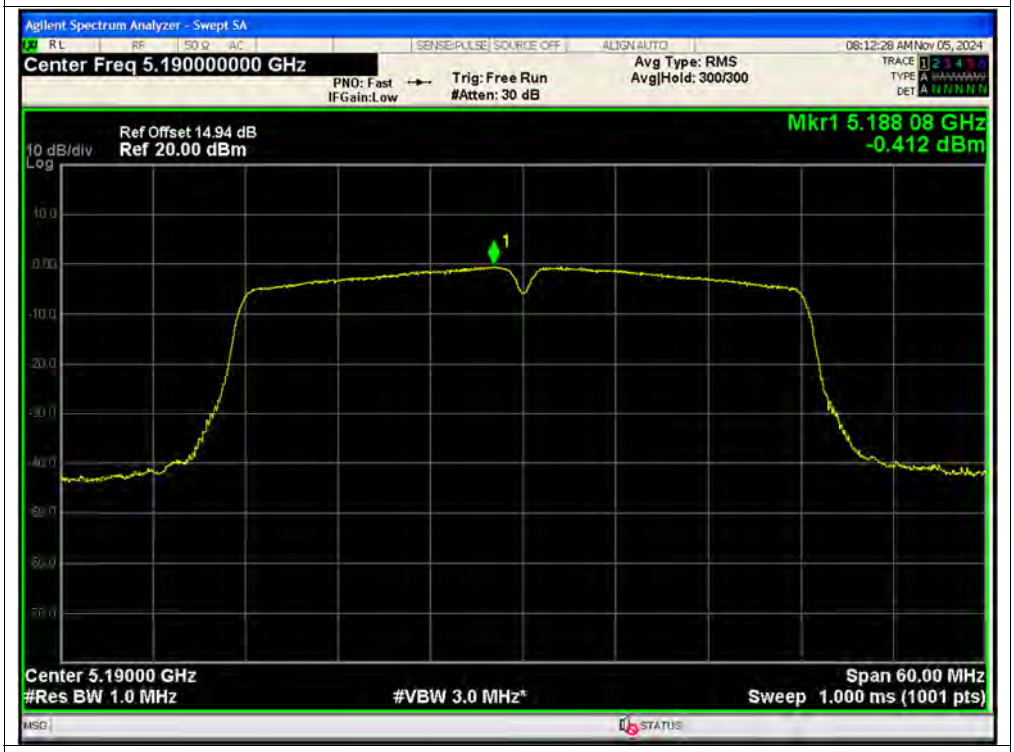
PSD NVNT n20 5745MHz Ant1 SISO

PSD NVNT n20 5785MHz Ant1 SISO

PSD NVNT n20 5825MHz Ant1 SISO

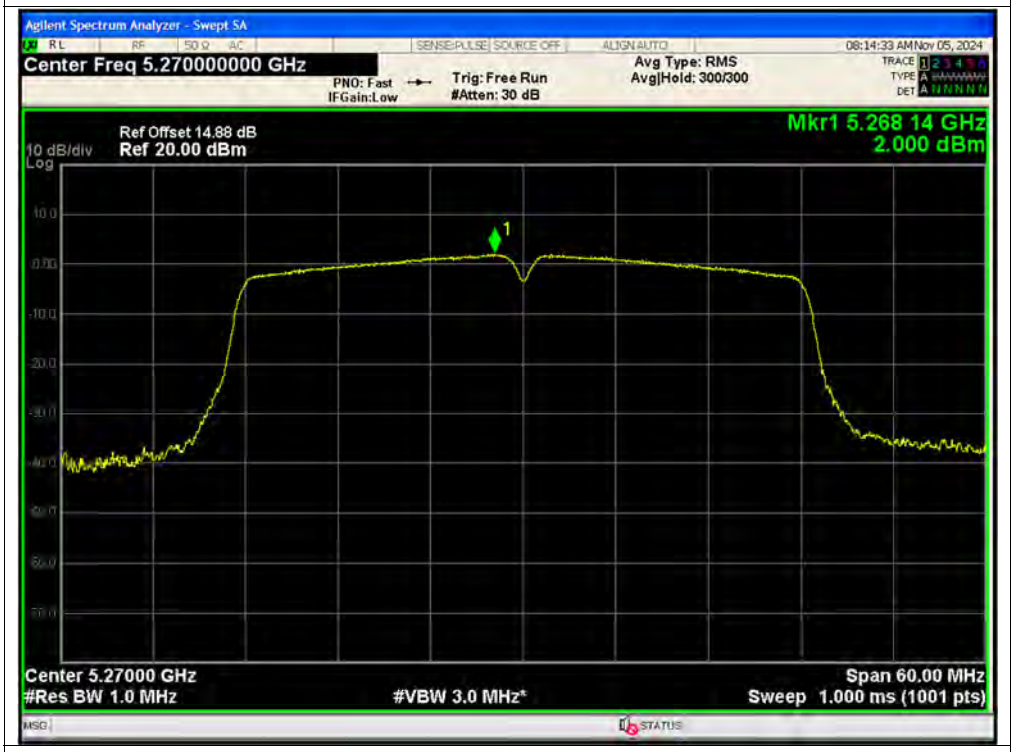


PSD NVNT n40 5190MHz Ant1 SISO



PSD NVNT n40 5230MHz Ant1 SISO

PSD NVNT n40 5270MHz Ant1 SISO



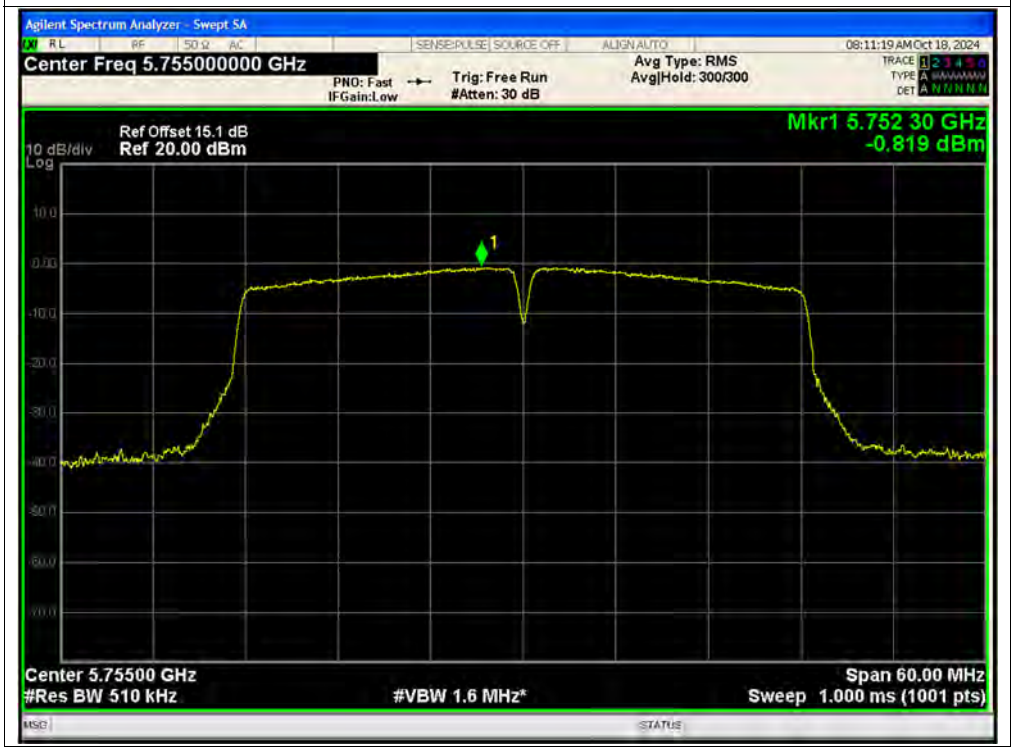
PSD NVNT n40 5310MHz Ant1 SISO

PSD NVNT n40 5510MHz Ant1 SISO

PSD NVNT n40 5550MHz Ant1 SISO

PSD NVNT n40 5670MHz Ant1 SISO

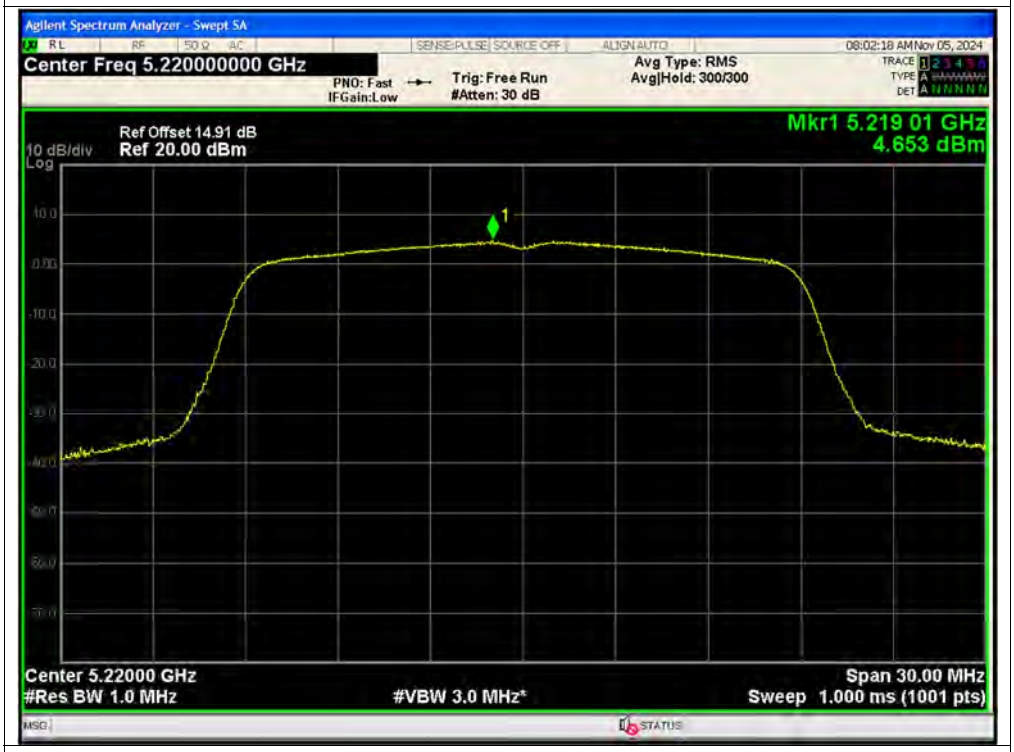
PSD NVNT n40 5755MHz Ant1 SISO



PSD NVNT n40 5795MHz Ant1 SISO

PSD NVNT ac20 5180MHz Ant1 SISO

PSD NVNT ac20 5220MHz Ant1 SISO

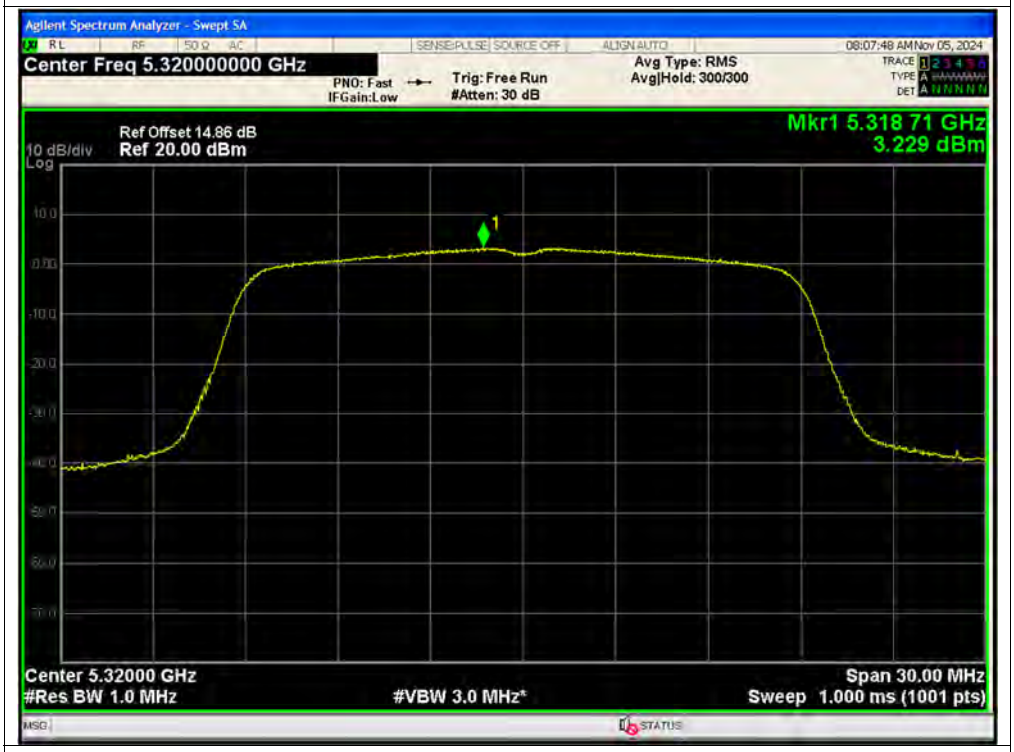


PSD NVNT ac20 5240MHz Ant1 SISO

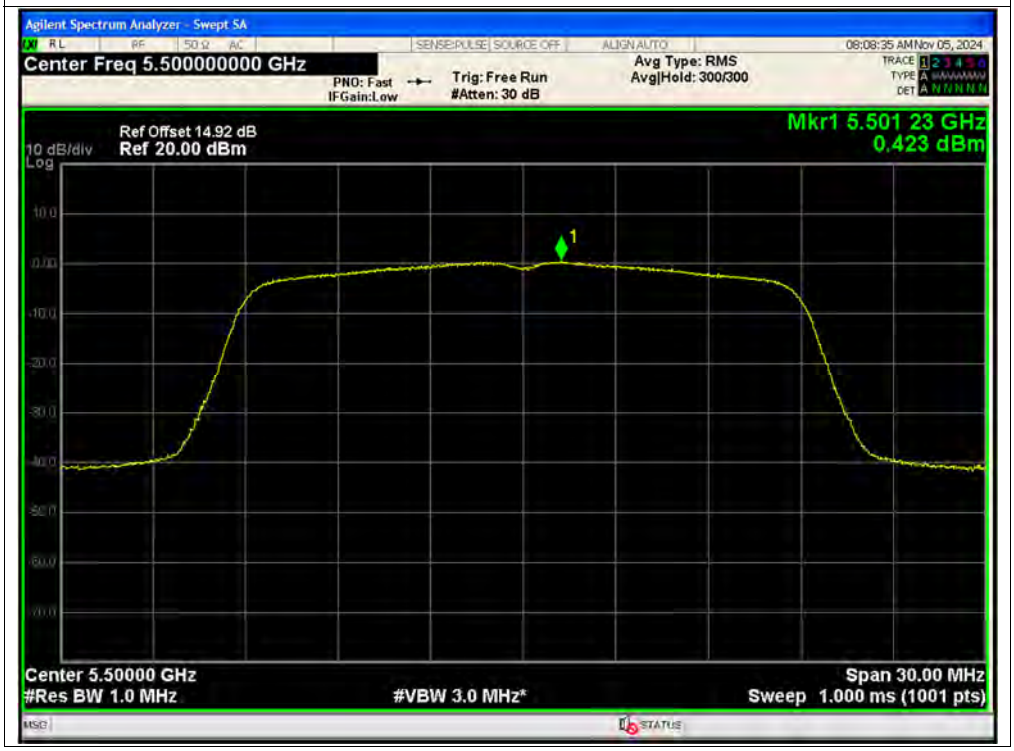
PSD NVNT ac20 5260MHz Ant1 SISO

PSD NVNT ac20 5300MHz Ant1 SISO

PSD NVNT ac20 5320MHz Ant1 SISO

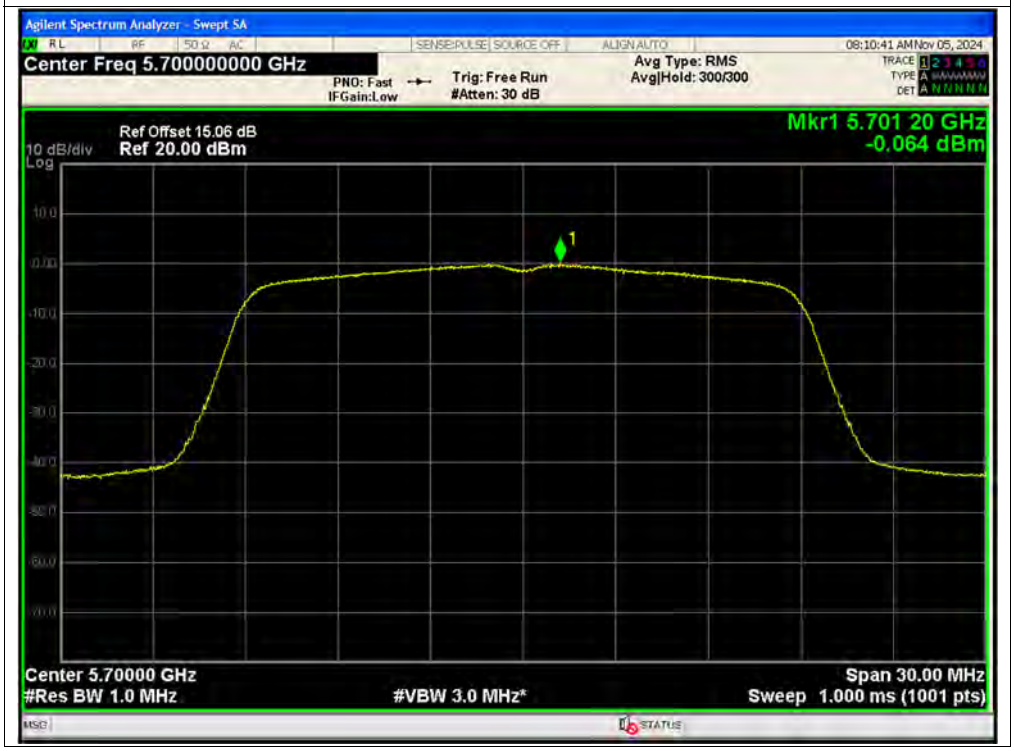


PSD NVNT ac20 5500MHz Ant1 SISO

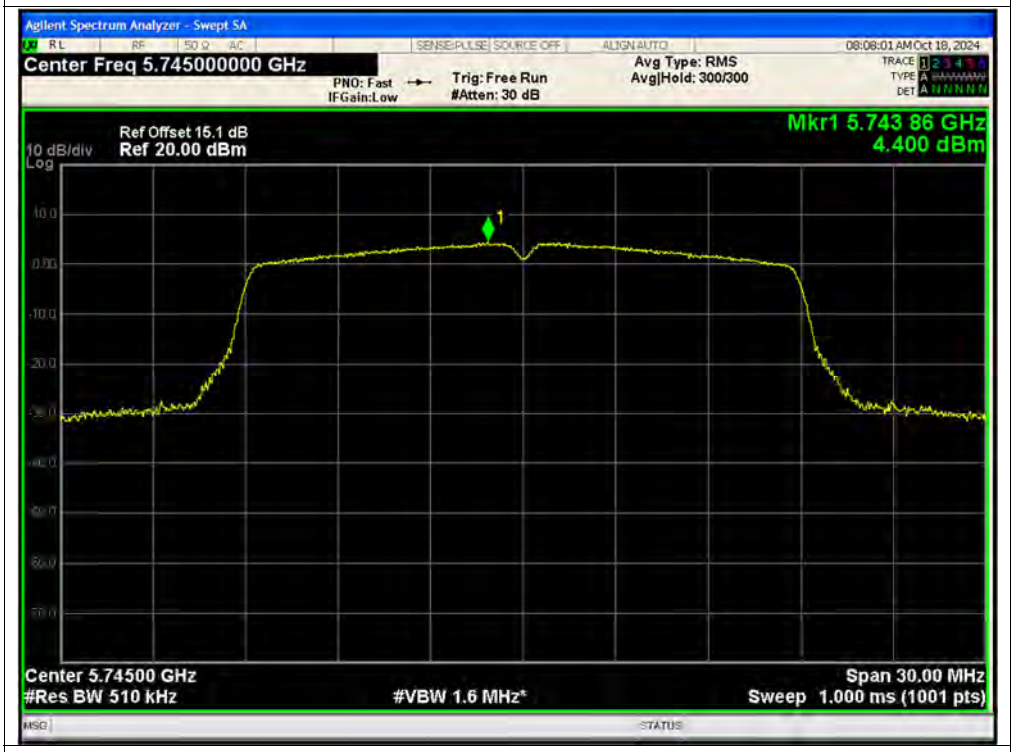


PSD NVNT ac20 5580MHz Ant1 SISO

PSD NVNT ac20 5700MHz Ant1 SISO



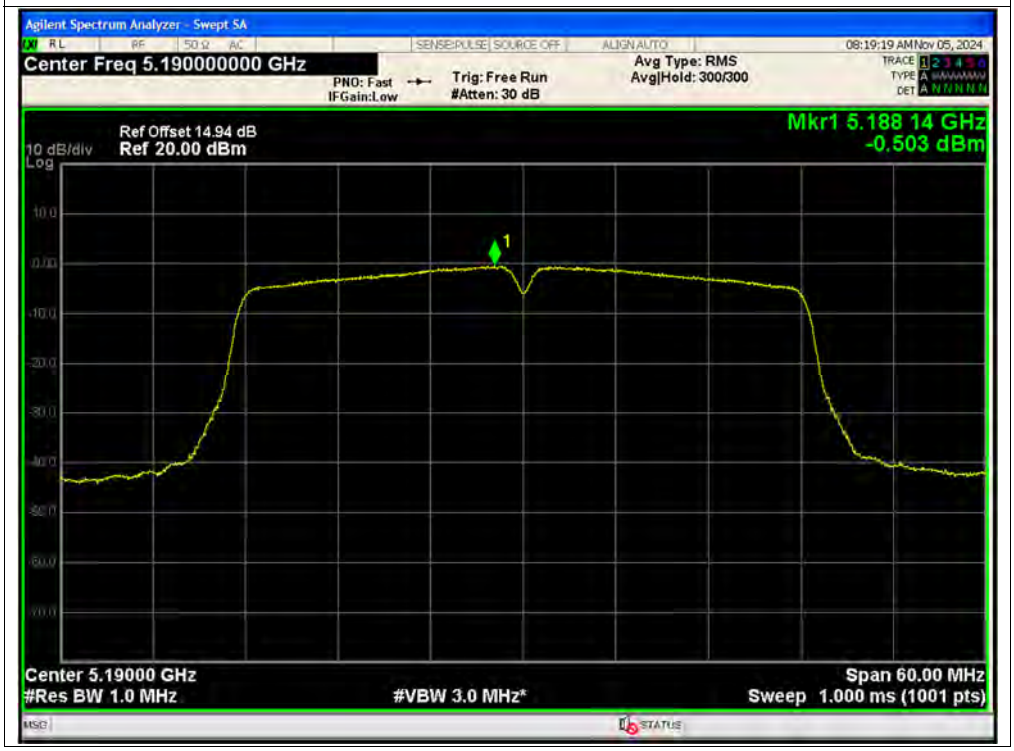
PSD NVNT ac20 5745MHz Ant1 SISO



PSD NVNT ac20 5785MHz Ant1 SISO

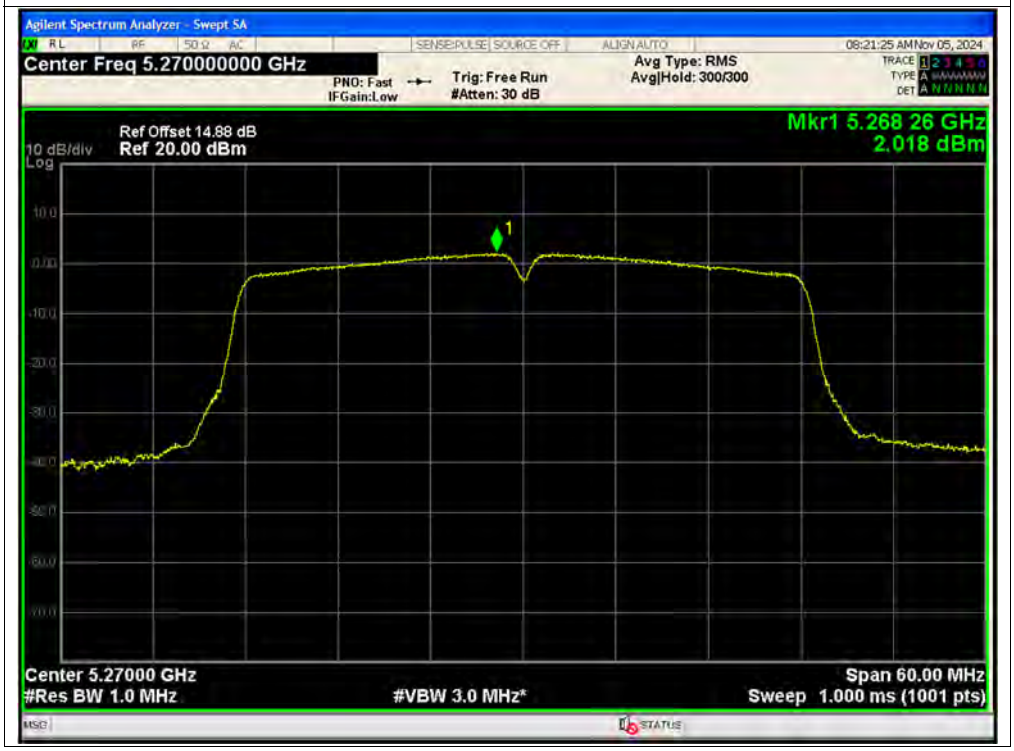
PSD NVNT ac20 5825MHz Ant1 SISO

PSD NVNT ac40 5190MHz Ant1 SISO



PSD NVNT ac40 5230MHz Ant1 SISO

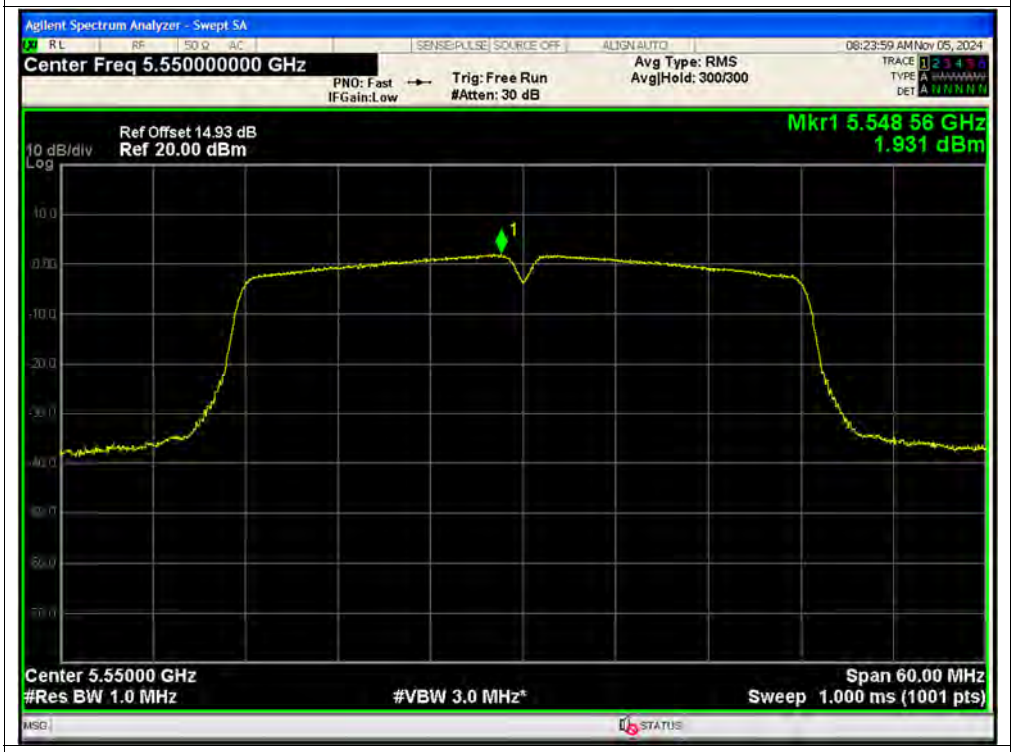
PSD NVNT ac40 5270MHz Ant1 SISO



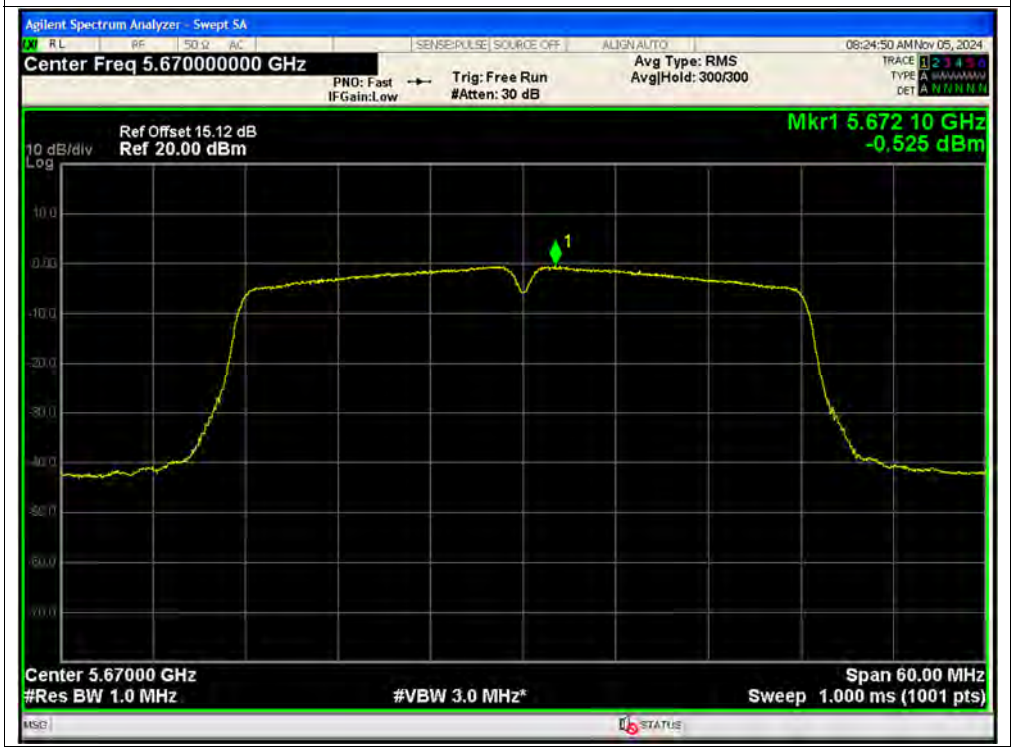
PSD NVNT ac40 5310MHz Ant1 SISO

PSD NVNT ac40 5510MHz Ant1 SISO

PSD NVNT ac40 5550MHz Ant1 SISO



PSD NVNT ac40 5670MHz Ant1 SISO



PSD NVNT ac40 5755MHz Ant1 SISO

PSD NVNT ac40 5795MHz Ant1 SISO

PSD NVNT ac80 5210MHz Ant1 SISO

PSD NVNT ac80 5290MHz Ant1 SISO

PSD NVNT ac80 5530MHz Ant1 SISO

PSD NVNT ac80 5610MHz Ant1 SISO

PSD NVNT ac80 5775MHz Ant1 SISO

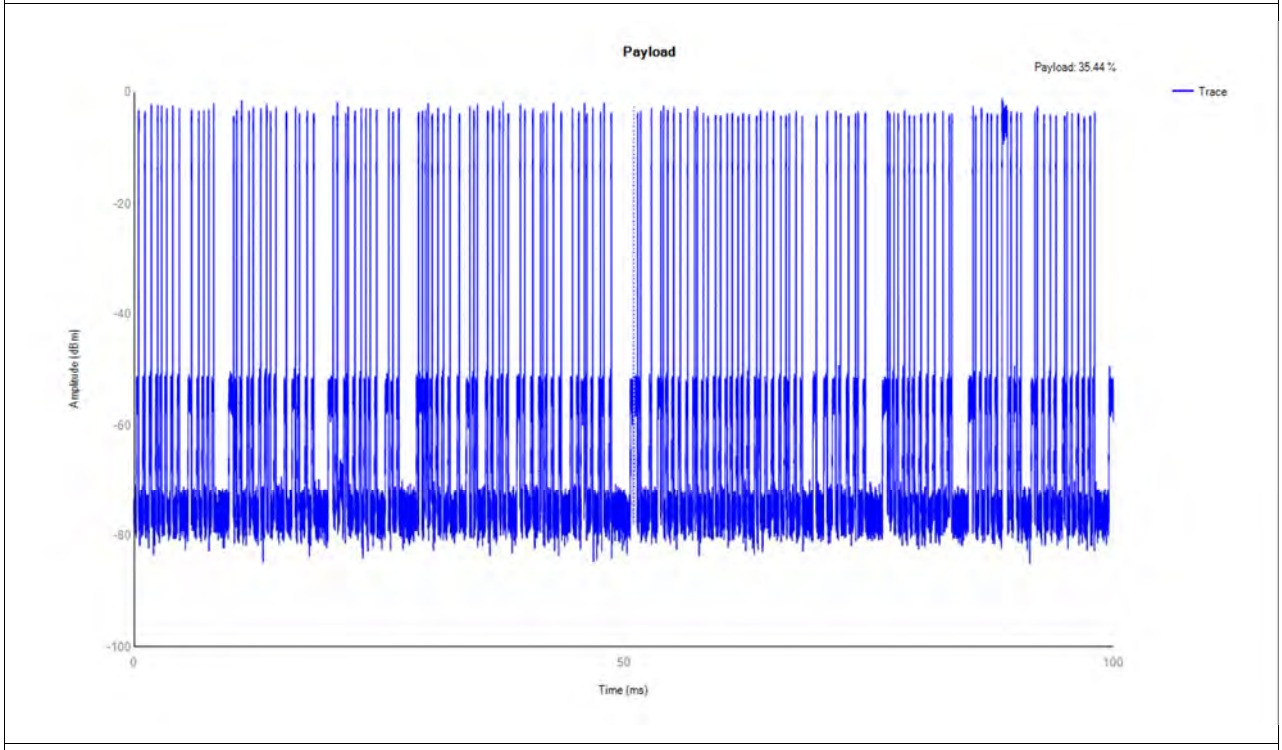
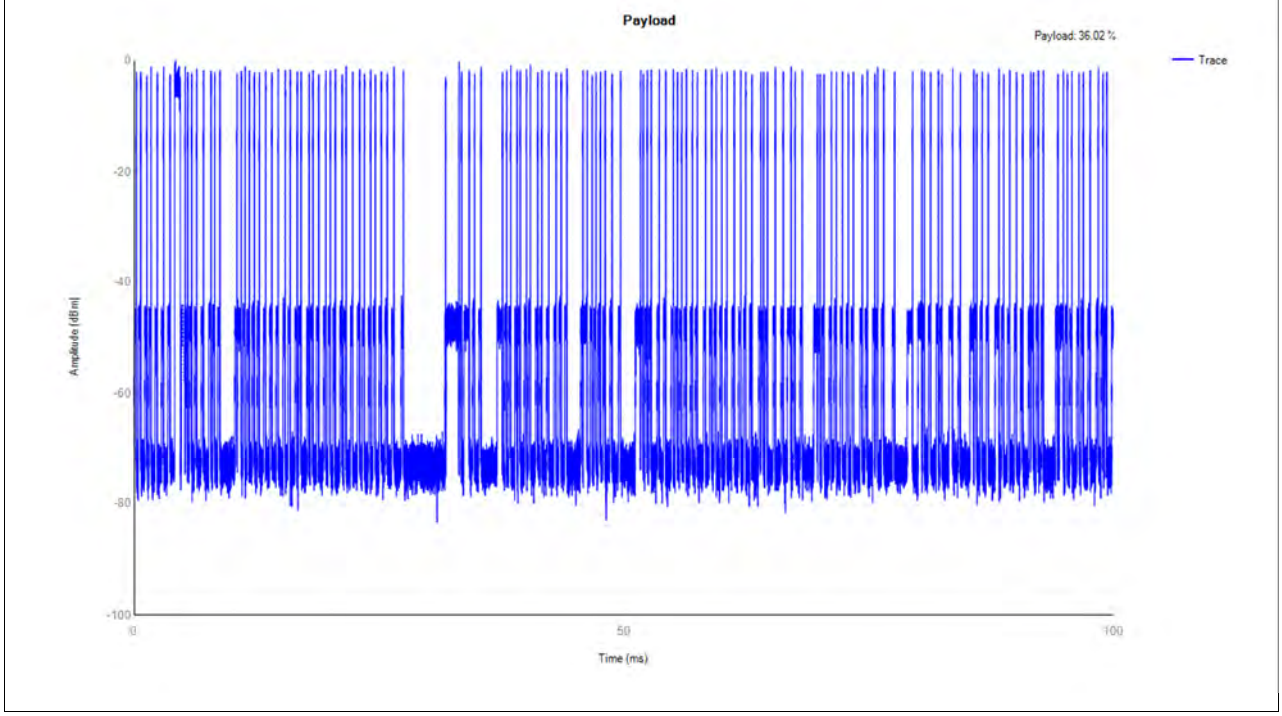

A.5. Frequency Stability

Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
20C 3.6V	Carrier	5180	Ant1	5179.976	-24000	-4.63	25	Pass
20C 3.92V	Carrier	5180	Ant1	5179.976	-24000	-4.63	25	Pass
20C 4.53V	Carrier	5180	Ant1	5179.976	-24000	-4.63	25	Pass
0C 3.8V	Carrier	5180	Ant1	5179.975	-25000	-4.83	25	Pass
10C 3.8V	Carrier	5180	Ant1	5179.975	-25000	-4.83	25	Pass
20C 3.8V	Carrier	5180	Ant1	5179.975	-25000	-4.83	25	Pass
30C 3.8V	Carrier	5180	Ant1	5179.975	-25000	-4.83	25	Pass
35C 3.8V	Carrier	5180	Ant1	5179.975	-25000	-4.83	25	Pass
20C 3.6V	Carrier	5260	Ant1	5259.976	-24000	-4.56	25	Pass
20C 3.92V	Carrier	5260	Ant1	5259.975	-25000	-4.75	25	Pass
20C 4.53V	Carrier	5260	Ant1	5259.975	-25000	-4.75	25	Pass
0C 4V	Carrier	5260	Ant1	5259.975	-25000	-4.75	25	Pass
10C 4V	Carrier	5260	Ant1	5259.975	-25000	-4.75	25	Pass
20C 4V	Carrier	5260	Ant1	5259.975	-25000	-4.75	25	Pass
30C 4V	Carrier	5260	Ant1	5259.975	-25000	-4.75	25	Pass
35C 4V	Carrier	5260	Ant1	5259.975	-25000	-4.75	25	Pass
20C 3.6V	Carrier	5500	Ant1	5499.974	-26000	-4.73	25	Pass
20C 3.92V	Carrier	5500	Ant1	5499.974	-26000	-4.73	25	Pass
20C 4.53V	Carrier	5500	Ant1	5499.974	-26000	-4.73	25	Pass
0C 4V	Carrier	5500	Ant1	5499.974	-26000	-4.73	25	Pass
10C 4V	Carrier	5500	Ant1	5499.974	-26000	-4.73	25	Pass
20C 4V	Carrier	5500	Ant1	5499.974	-26000	-4.73	25	Pass
30C 4V	Carrier	5500	Ant1	5499.974	-26000	-4.73	25	Pass
35C 4V	Carrier	5500	Ant1	5499.974	-26000	-4.73	25	Pass
20C 3.6V	Carrier	5745	Ant1	5744.984	-16000	-2.79	25	Pass
20C 3.92V	Carrier	5745	Ant1	5744.981	-19000	-3.31	25	Pass
20C 4.53V	Carrier	5745	Ant1	5744.982	-18000	-3.13	25	Pass
0C 3.92V	Carrier	5745	Ant1	5744.982	-18000	-3.13	25	Pass
10C 3.92V	Carrier	5745	Ant1	5744.981	-19000	-3.31	25	Pass
30C 3.92V	Carrier	5745	Ant1	5744.981	-19000	-3.31	25	Pass
35C 3.92V	Carrier	5745	Ant1	5744.98	-20000	-3.48	25	Pass

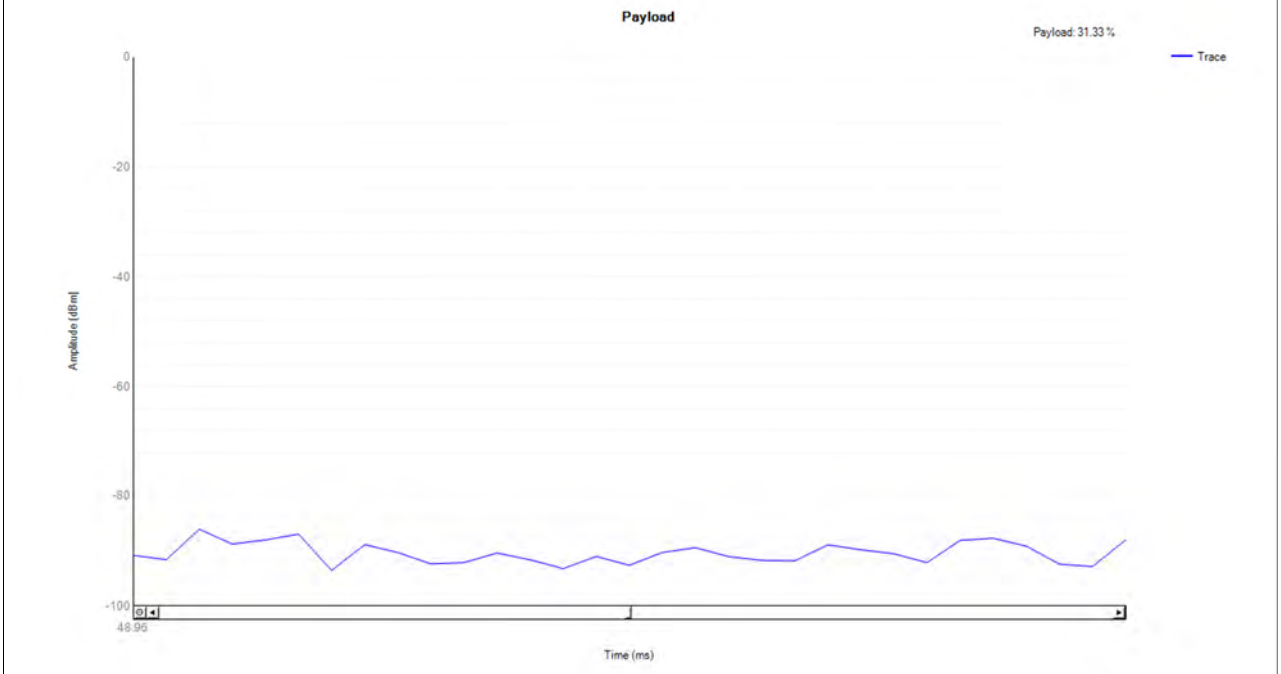
A.6. Dynamic Frequency Selection

Payload

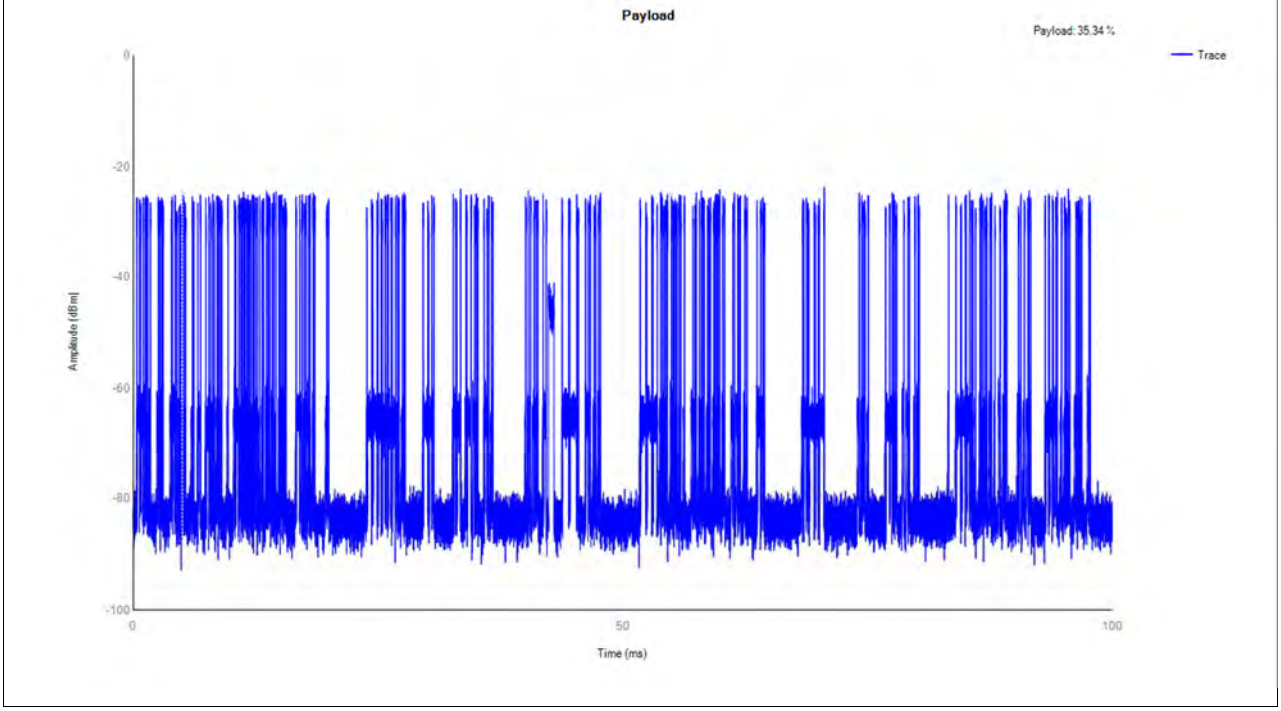
Mode	Frequency (MHz)	Result	Verdict
ac20	5260	35.44	Pass
ac20	5500	36.02	Pass
ac80	5290	31.33	Pass
ac80	5530	35.34	Pass

Test Graphs
ac20 5260MHz Payload SISO

ac20 5500MHz Payload SISO


ac80 5290MHz Payload SISO



ac80 5530MHz Payload SISO



Detection Thresholds

Mode	Frequency (MHz)	Type	Result	Verdict
ac20	5260	DFS_FCC_T0	See test Graph	Pass
ac20	5500	DFS_FCC_T0	See test Graph	Pass
ac80	5290	DFS_FCC_T0	See test Graph	Pass
ac80	5530	DFS_FCC_T0	See test Graph	Pass

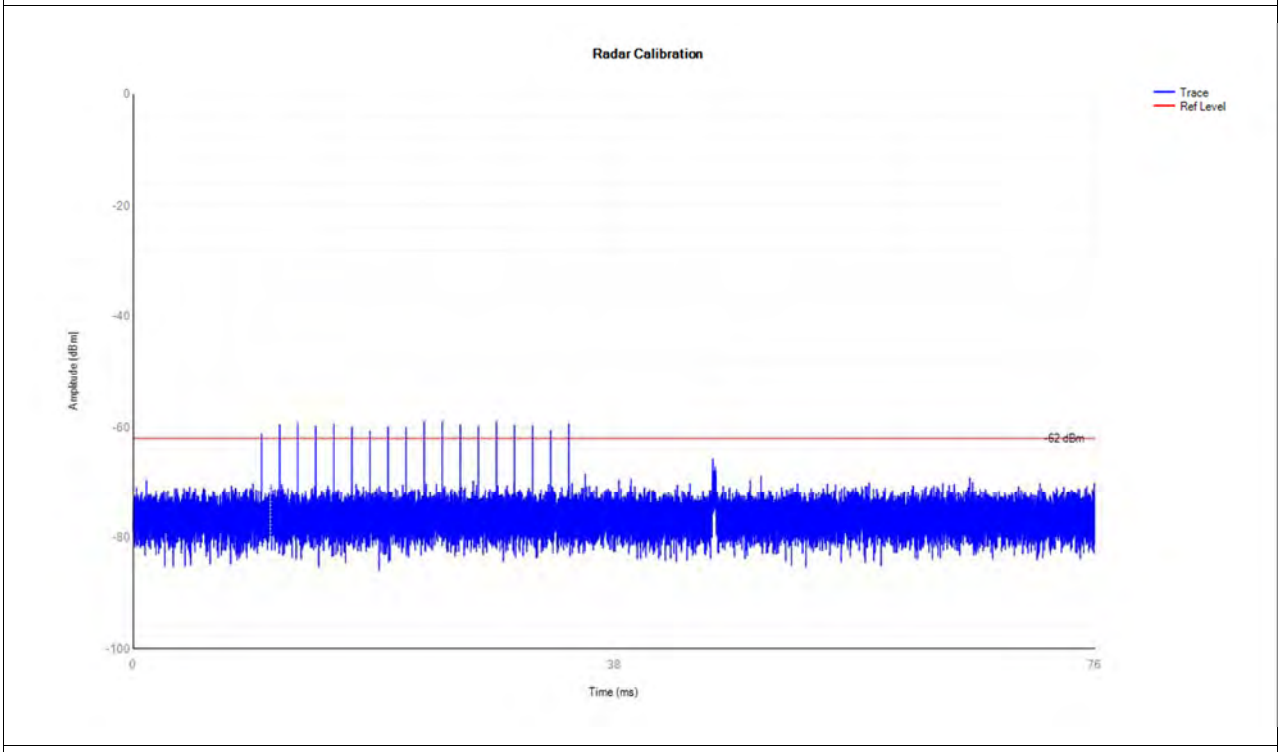
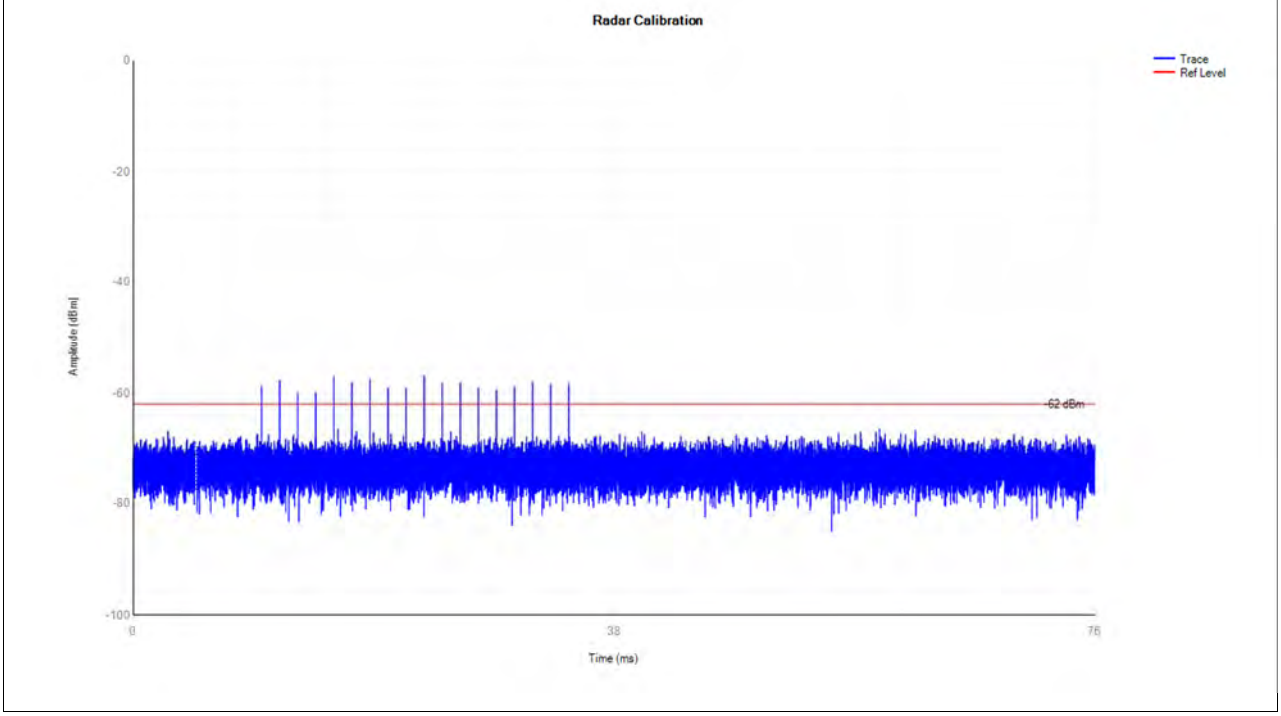
Spectrum analyzer settings:

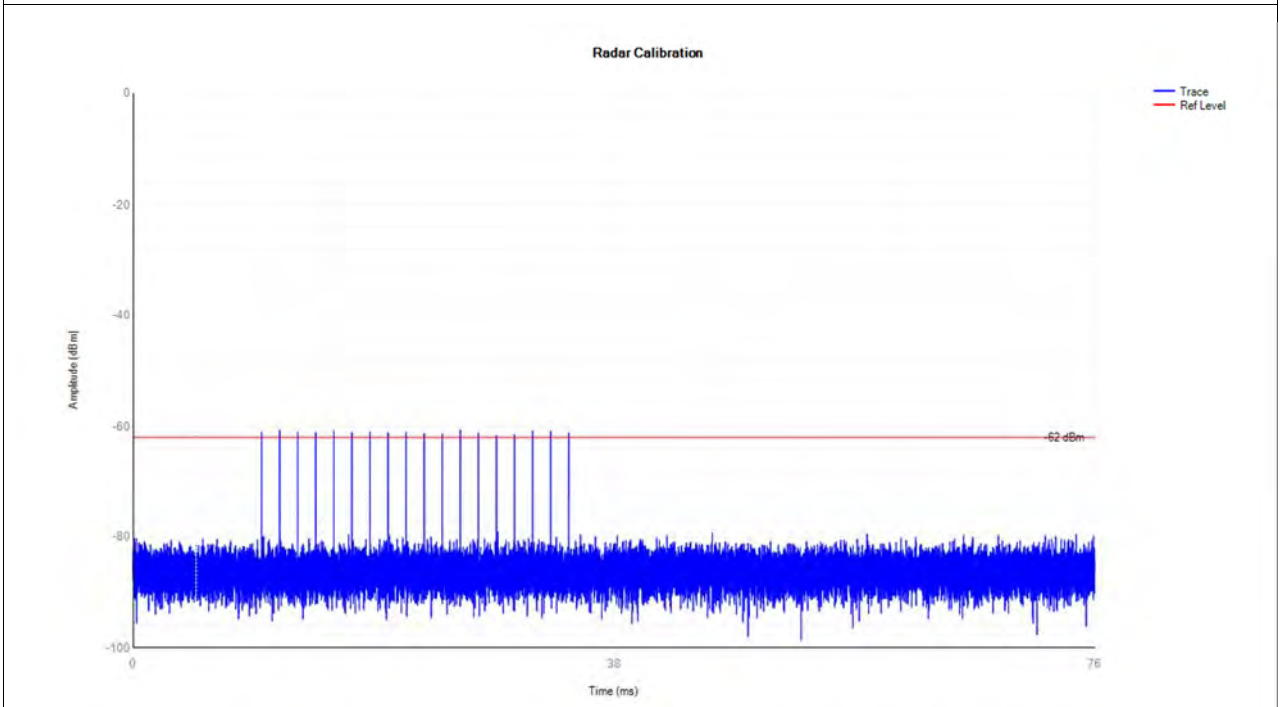
Span: Zero

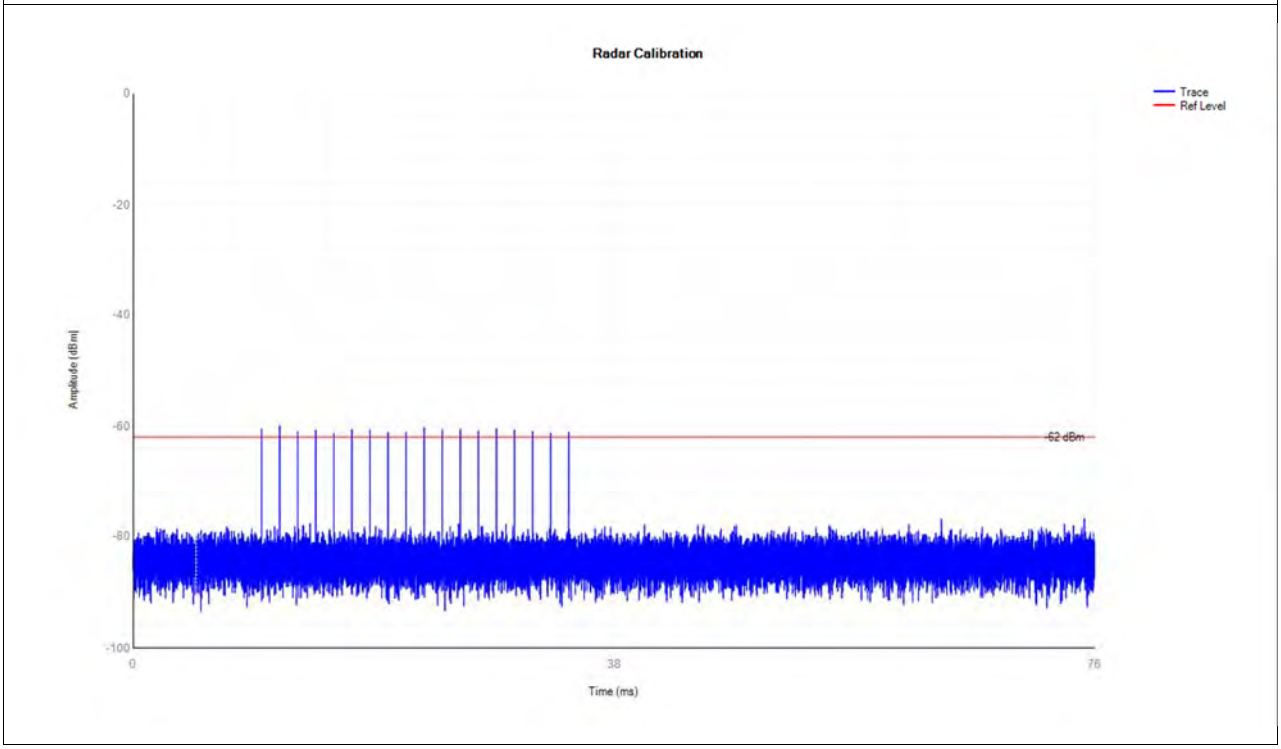
Detector Type: Peak

RBW: 3MHz

VBW: 3MHz

Test Graphs
5260MHz DFS_FCC_T0 SISO

5500MHz DFS_FCC_T0 SISO


5290MHz DFS_FCC_T0 SISO


5530MHz DFS_FCC_T0 SISO


Channel Move Time and Channel Closing Transmission Time

Mode	Frequency (MHz)	Channel Move Time (s)	Limit Channel Move Time (s)	Close Transmission Time (s)	Limit Close Transmission Time (s)	Close Transmission Time after 200ms(s)	Limit Close Transmission Time after 200ms (s)	Verdict
ac20	5260	0.818	10	0.047	0.26	0.015	0.06	Pass
ac20	5500	0.717	10	0.017	0.26	0.014	0.06	Pass
ac80	5290	0.878	10	0.119	0.26	0.007	0.06	Pass
ac80	5530	0.756	10	0.048	0.26	0.013	0.06	Pass

Spectrum analyzer settings:

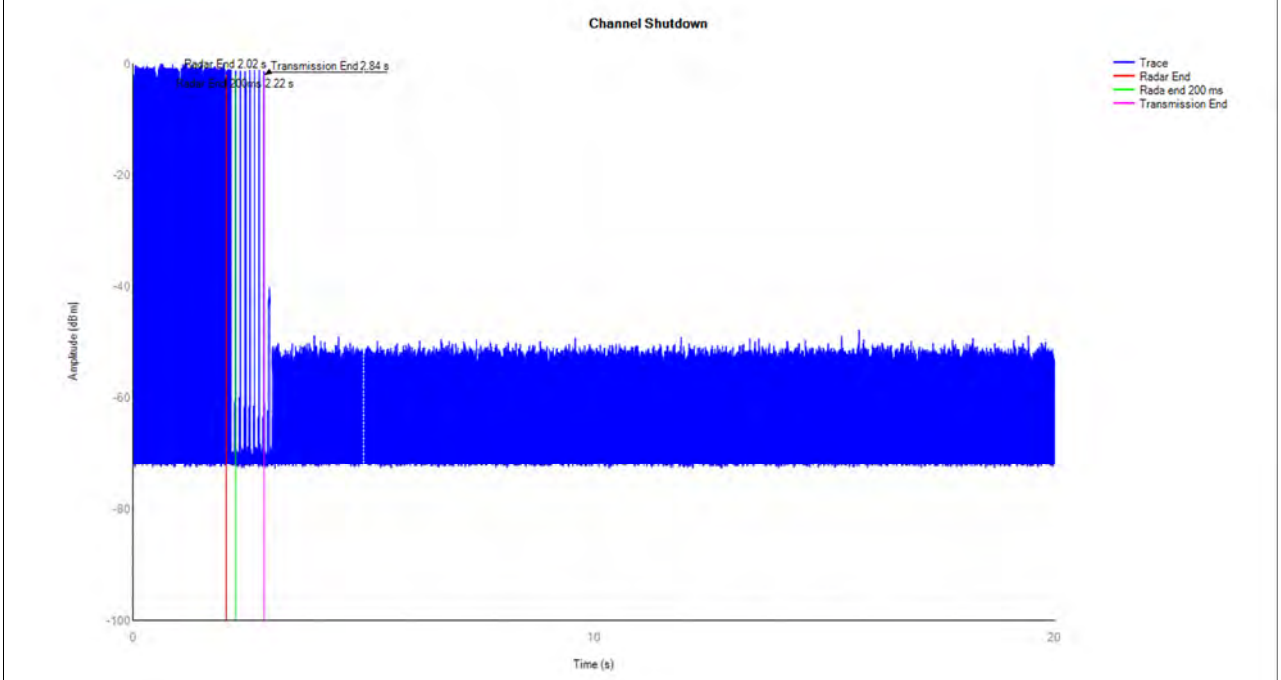
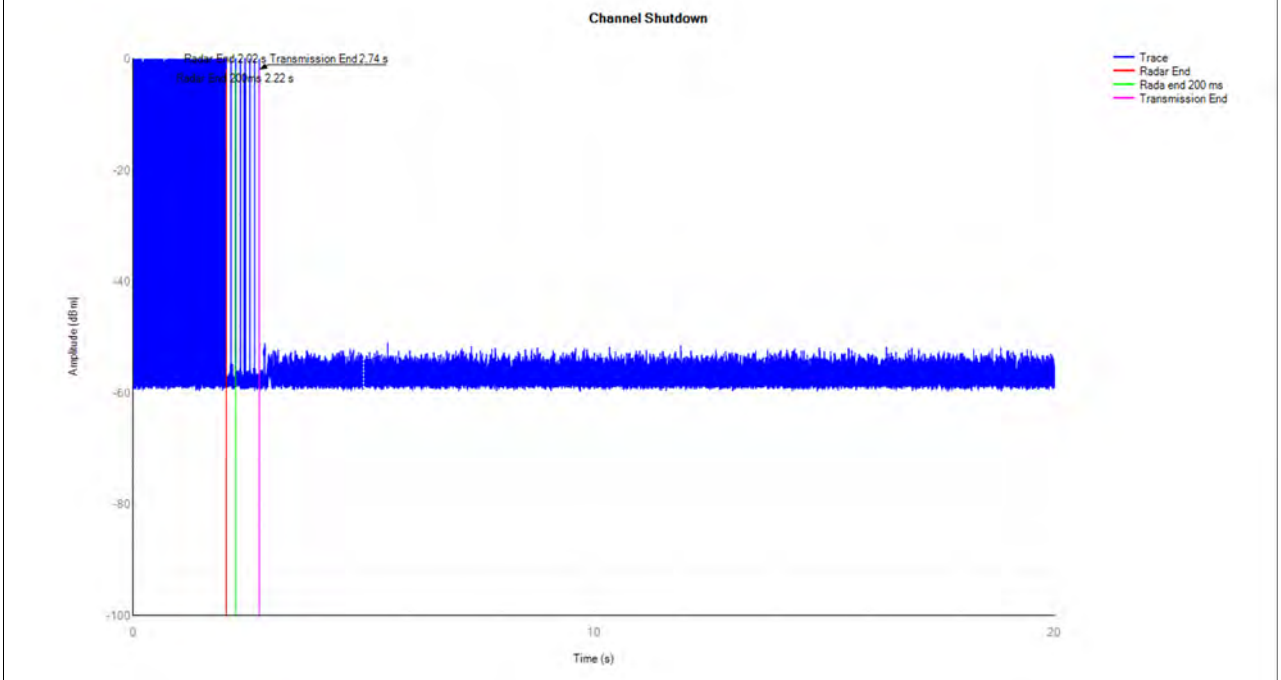
Span: Zero

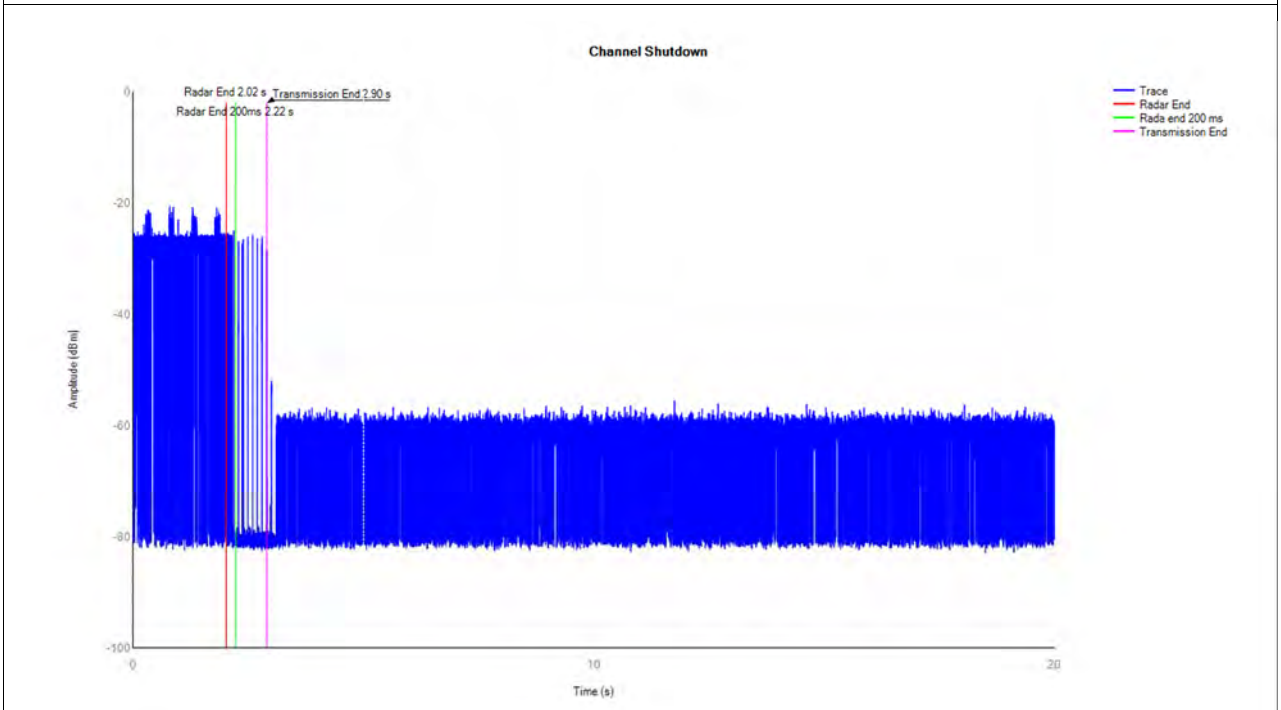
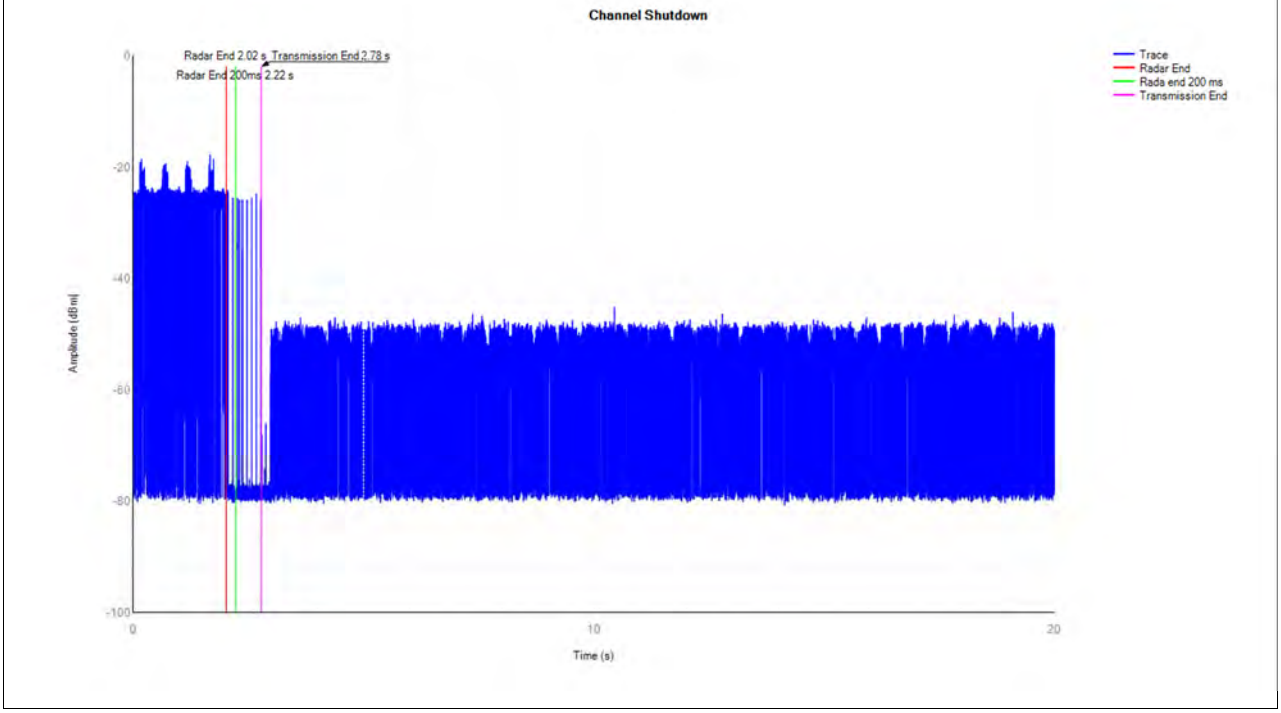
Detector type: Peak

RBW: 3MHz

VBW: 3MHz

Sweep time: 20s

Test Graphs
ac20 5260MHz Shutdown SISO

ac20 5500MHz Shutdown SISO


ac80 5290MHz Shutdown SISO

ac80 5530MHz Shutdown SISO


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

Mode	Frequency (MHz)	Result	Verdict
ac20	5260	See test Graph	Pass
ac20	5500	See test Graph	Pass

Spectrum analyzer settings:

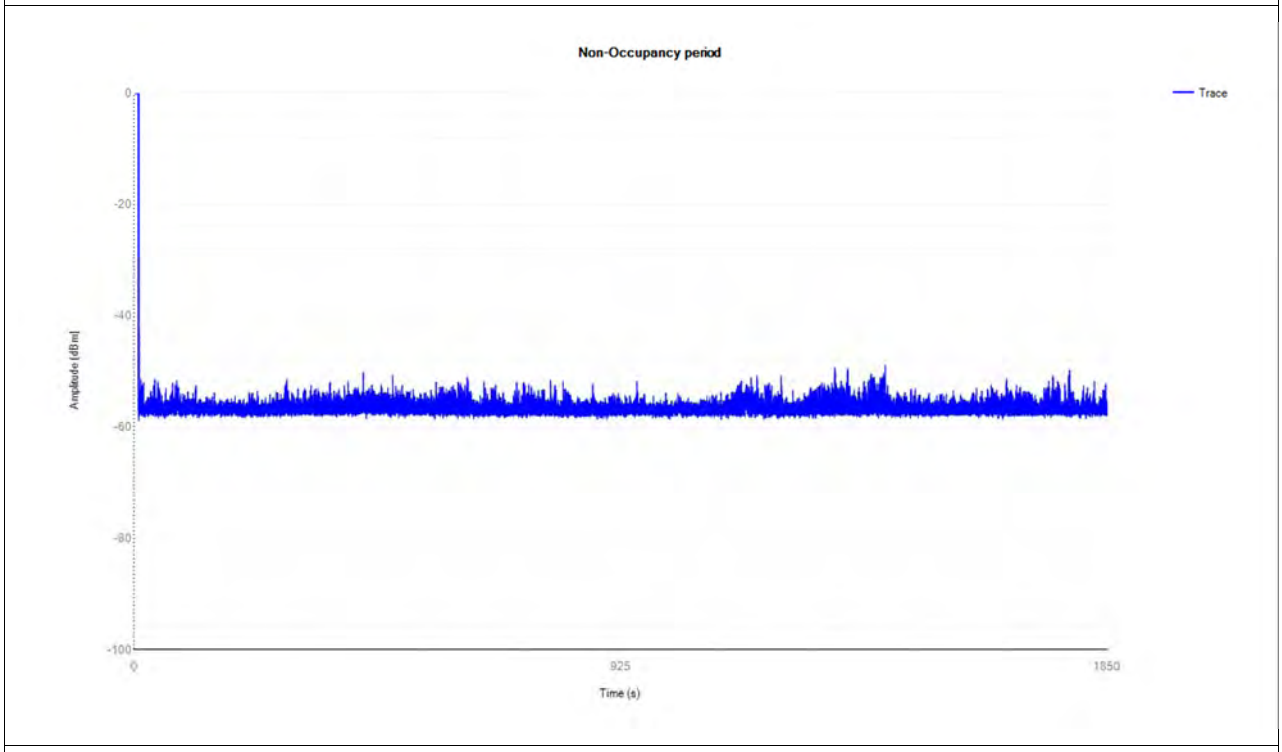
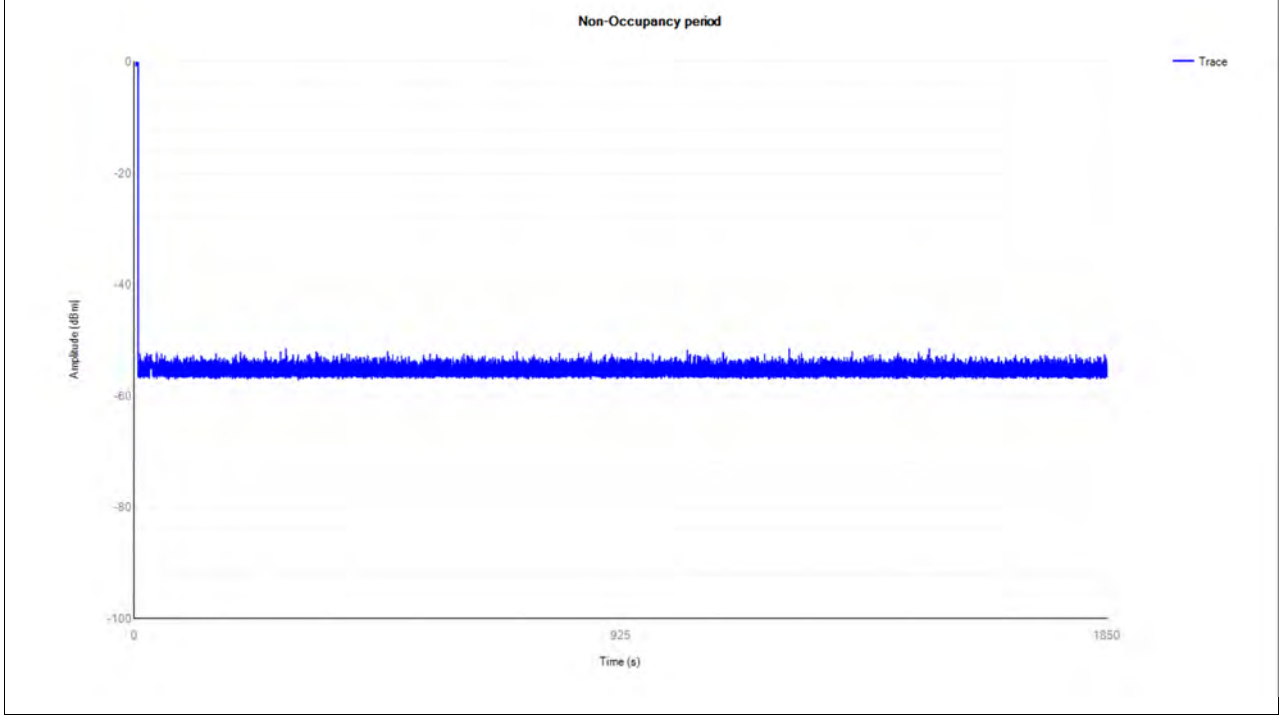
Span: Zero

Detector type: Peak

RBW: 3MHz

VBW: 3MHz

Sweep time: 1850s

Test Graphs
ac20 5260MHz Non-Occupancy SISO

ac20 5500MHz Non-Occupancy SISO


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 + Adapter + Data Line + WIFI TX

Test voltage: AC 120V/60Hz

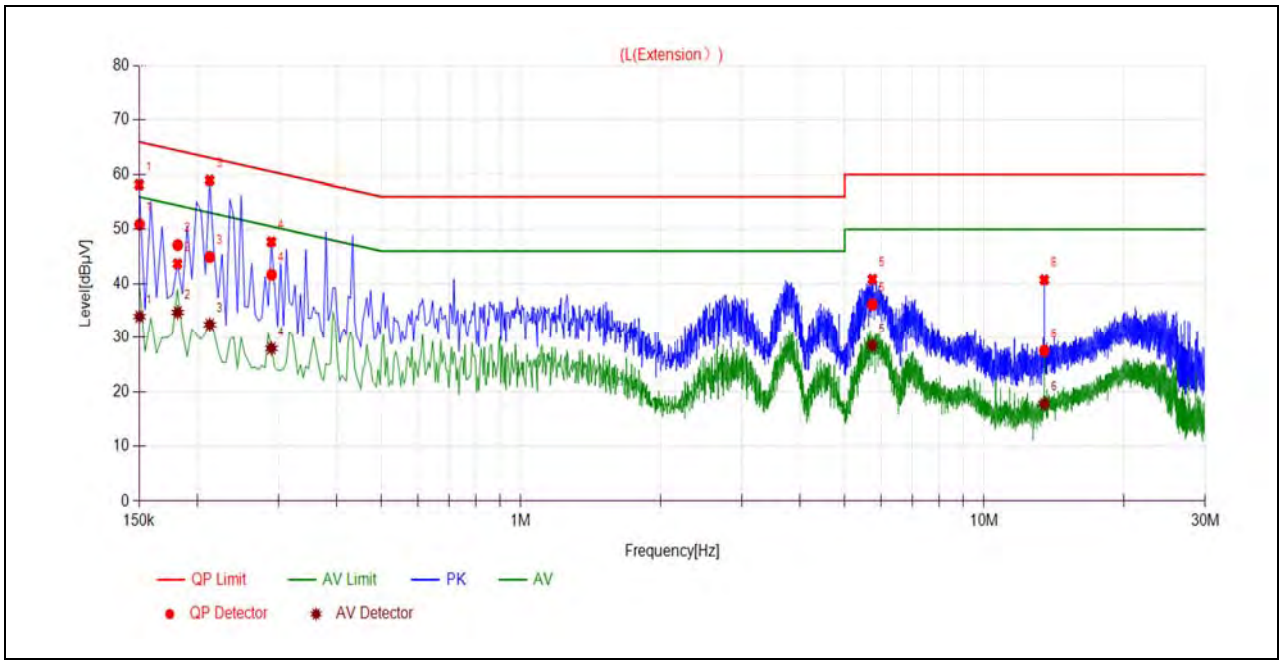
The measurement results are obtained as below:

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

U_R: Receiver Reading

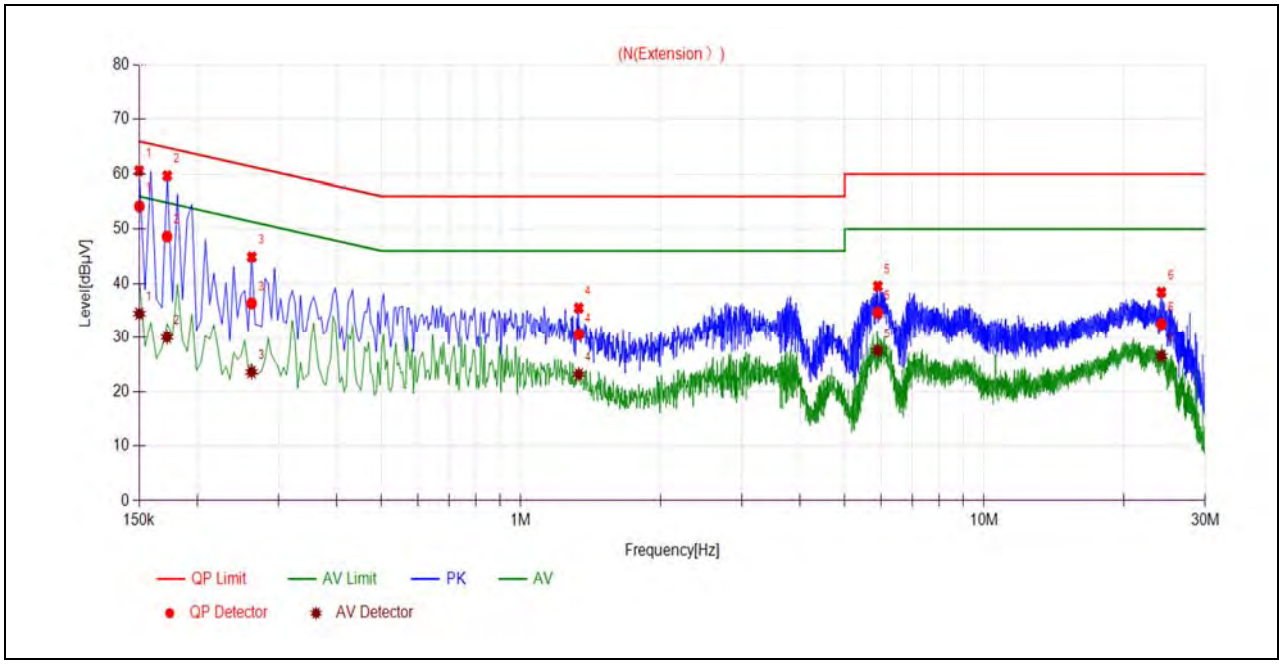
A_{Factor}: Voltage division factor of LISN

B. Test Plot:



(L Phase)

No.	Fre. (MHz)	Emission Level (dBµV)		Limit (dBµV)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.1503	50.90	33.93	65.99	55.99	Line	PASS
2	0.1817	47.12	34.71	64.41	54.41		PASS
3	0.2131	44.92	32.42	63.08	53.08		PASS
4	0.2896	41.65	27.96	60.54	50.54		PASS
5	5.7349	36.18	28.49	60.00	50.00		PASS
6	13.4843	27.52	17.76	60.00	50.00		PASS



(N Phase)

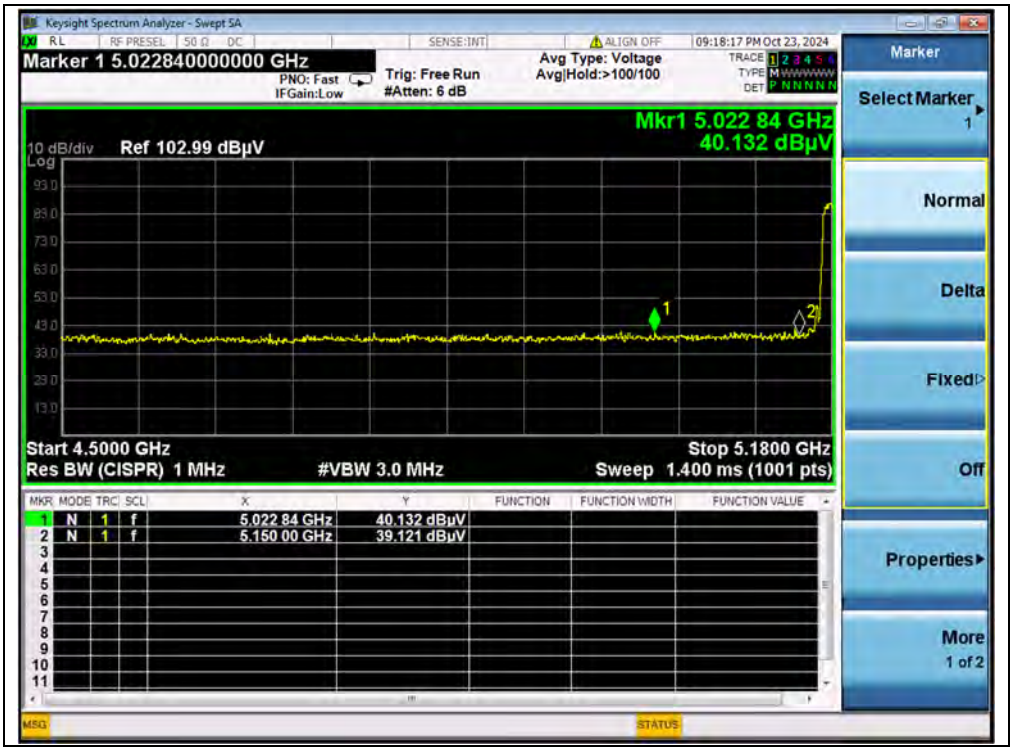
No.	Fre. (MHz)	Emission Level (dBµV)		Limit (dBµV)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.1502	54.17	34.47	65.99	55.99	Neutral	PASS
2	0.1723	48.64	30.06	64.85	54.85		PASS
3	0.2623	36.38	23.58	61.36	51.36		PASS
4	1.3336	30.59	23.16	56.00	46.00		PASS
5	5.8946	34.65	27.54	60.00	50.00		PASS
6	24.1294	32.53	26.54	60.00	50.00		PASS

A.8. Restricted Frequency Bands

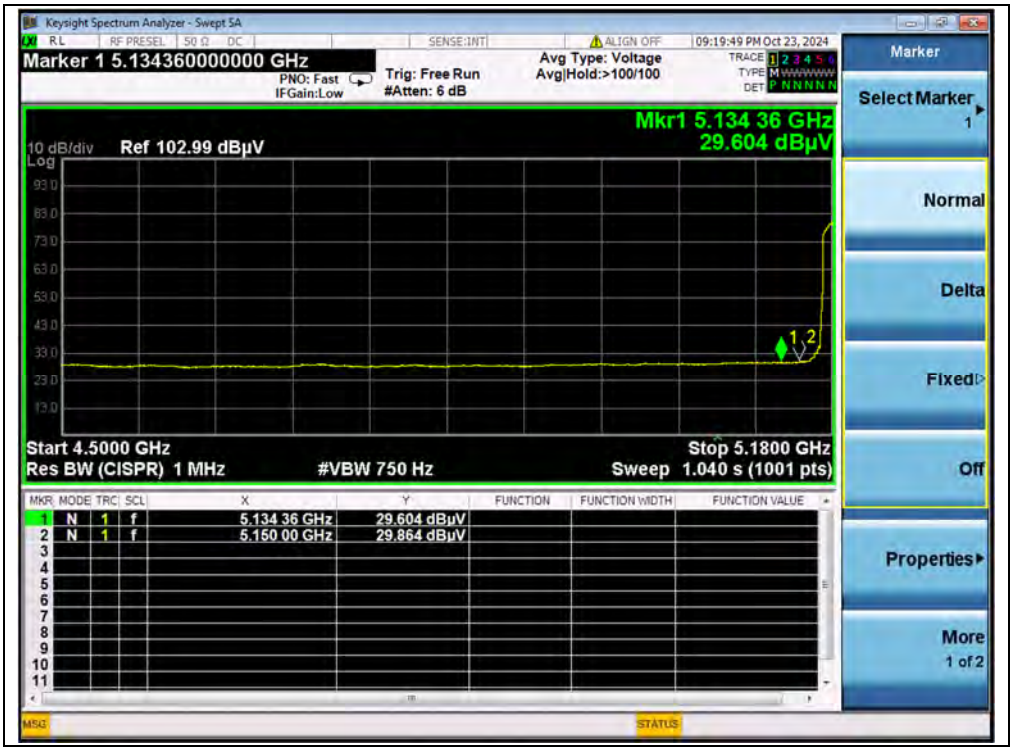
The lowest and highest channels are tested to verify the Restricted Frequency Bands.
The measurement results are obtained as below:
E [dBμV/m] =U_R + A_T + A_{Factor} [dB]; A_T =$L_{Cable\ loss}$ [dB]-G_{preamp} [dB]
A_T: Total correction Factor except Antenna
U_R: Receiver Reading
G_{preamp}: Preamplifier 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 (vertical) was recorded in this test report.
Note 2 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

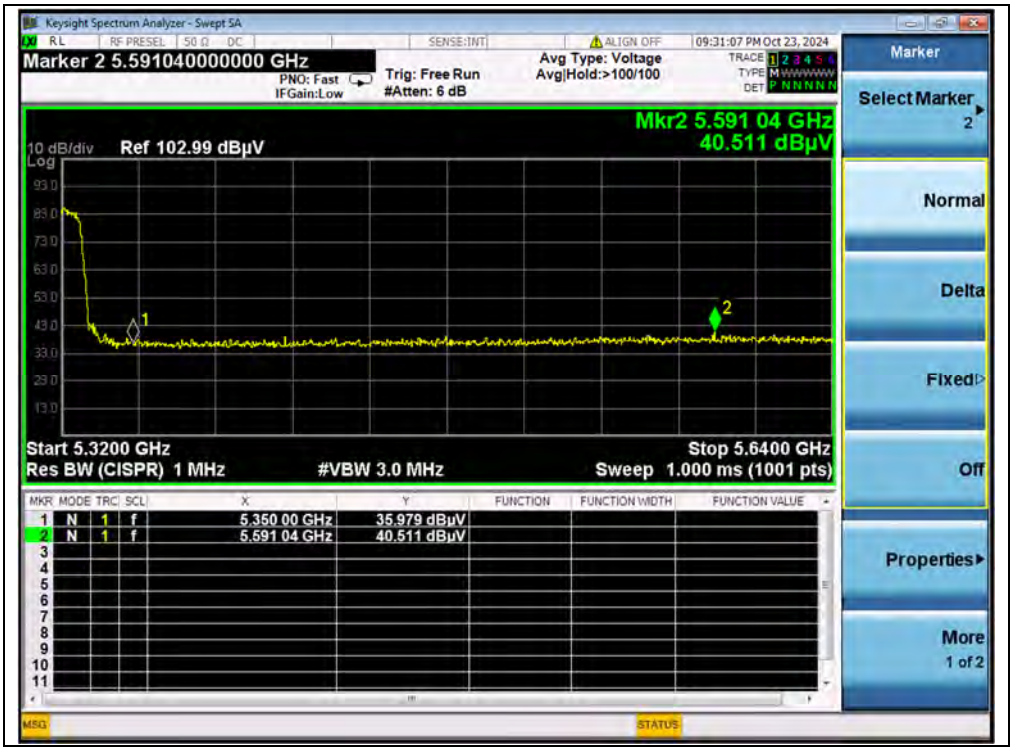
Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dBμV)	A_T (dB)	A_{Factor} (dB)	Max. Emission E (dBμV/m)	Limit (dBμV/m)	Verdict
		PK/ AV						
36	5022.84	PK	40.13	-16.90	33.10	56.33	74	PASS
36	5150.00	AV	29.86	-16.90	33.10	46.06	54	PASS
64	5591.04	PK	40.51	-15.40	33.00	58.11	74	PASS
64	5351.68	AV	28.62	-15.40	33.00	46.22	54	PASS
100	5091.29	PK	40.32	-16.00	33.60	57.92	68.23	PASS
100	5096.39	AV	29.36	-16.00	33.60	46.96	54	PASS
140	5753.70	PK	40.09	-16.00	33.60	57.69	68.23	PASS
149	5725.00	PK	53.11	-14.70	33.50	71.91	122.23	PASS
165	5850.00	PK	48.12	-14.70	33.50	66.92	122.23	PASS



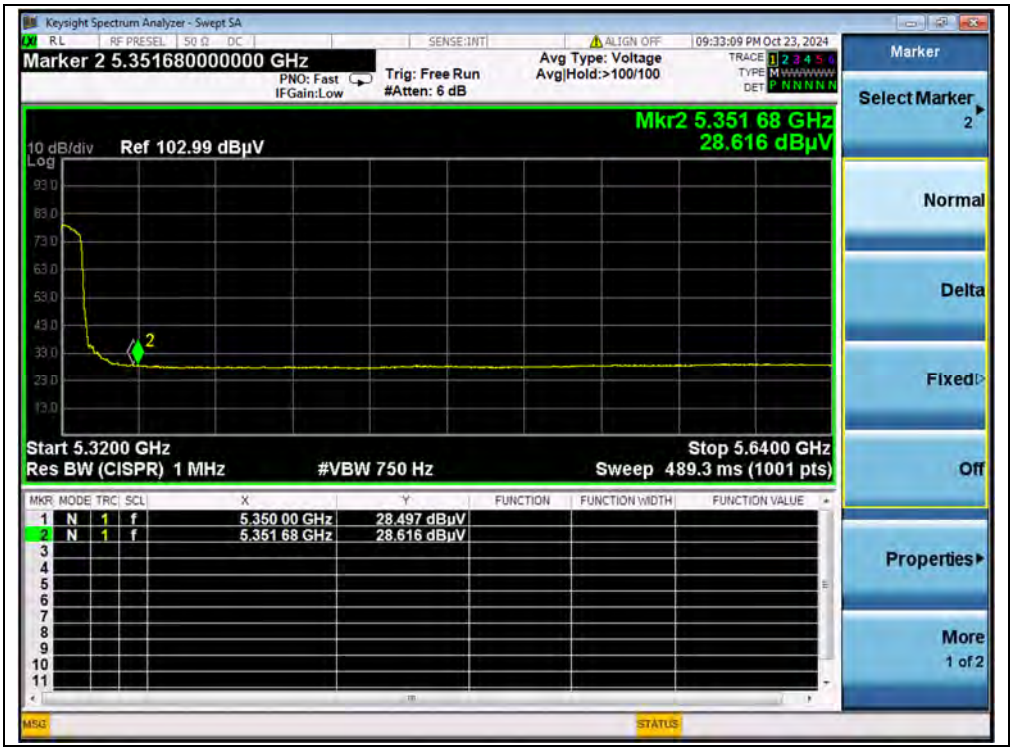
(PEAK, Channel 36, 802.11a)



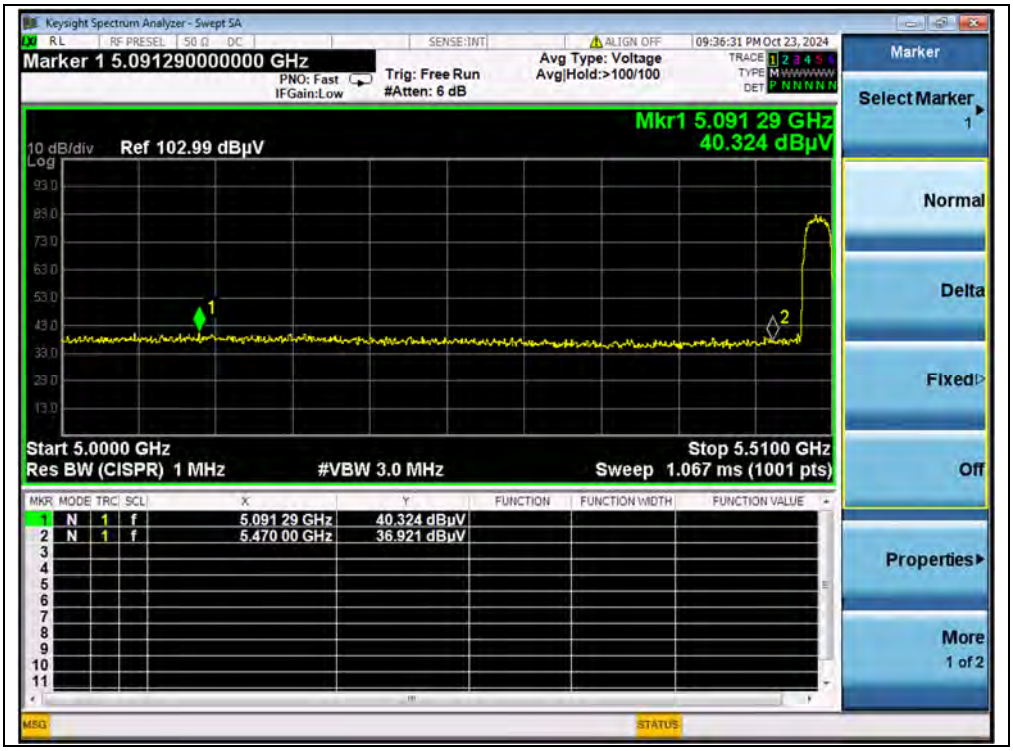
(AVERAGE, Channel 36, 802.11a)



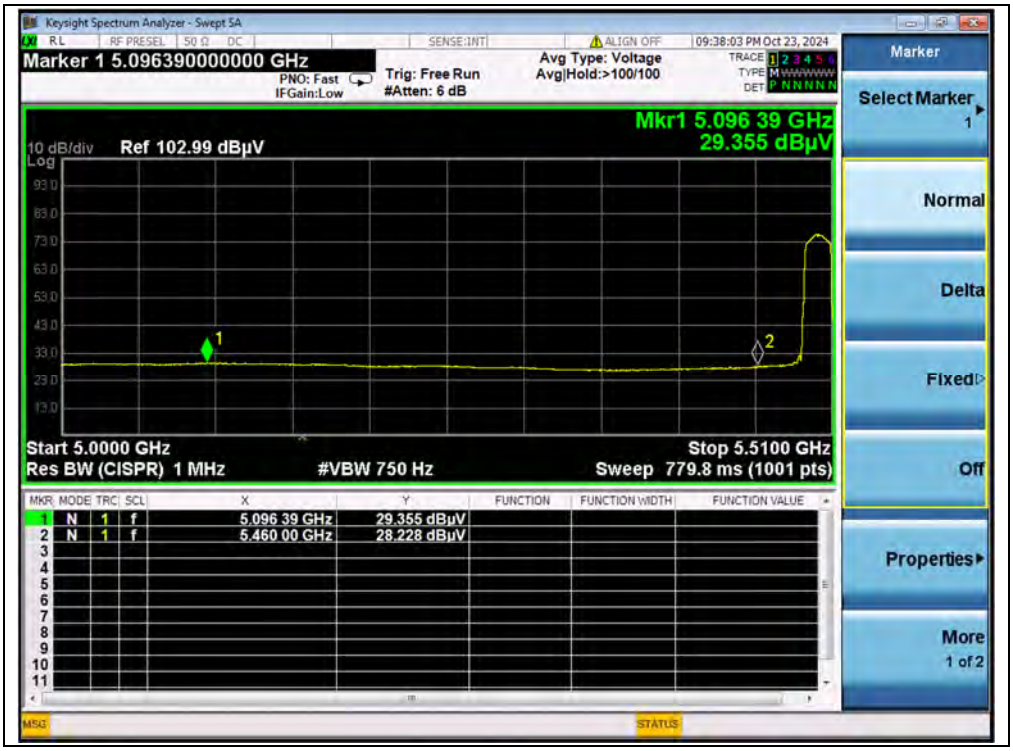
(PEAK, Channel 64, 802.11a)



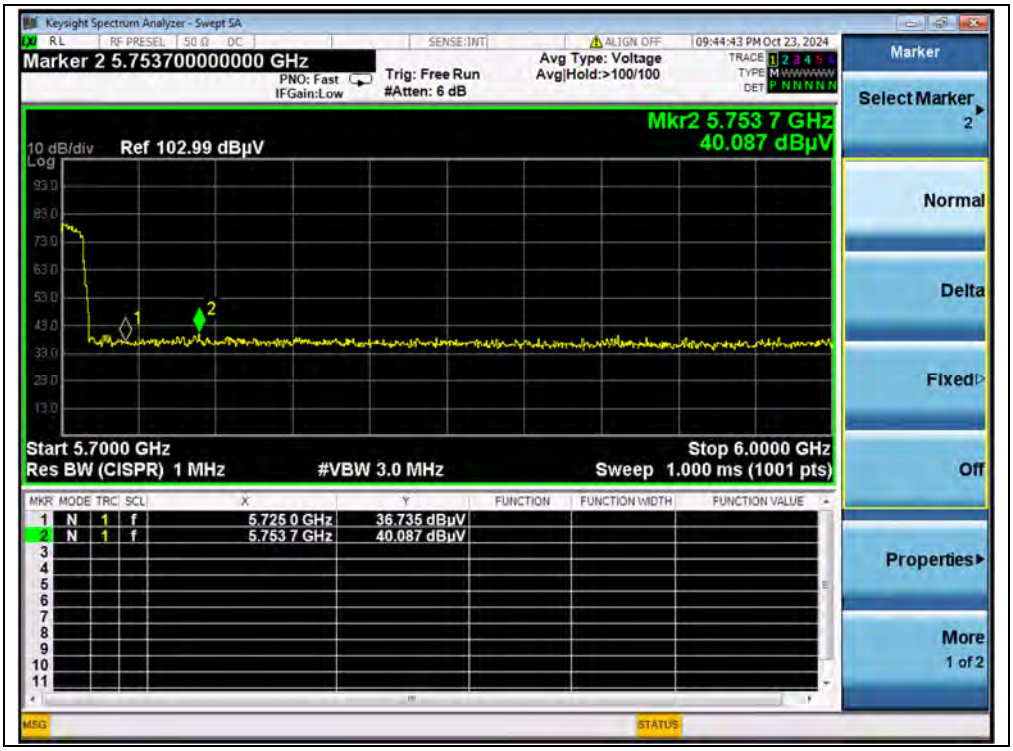
(AVERAGE, Channel 64, 802.11a)



(PEAK, Channel 100, 802.11a)



(AVERAGE, Channel 100, 802.11a)



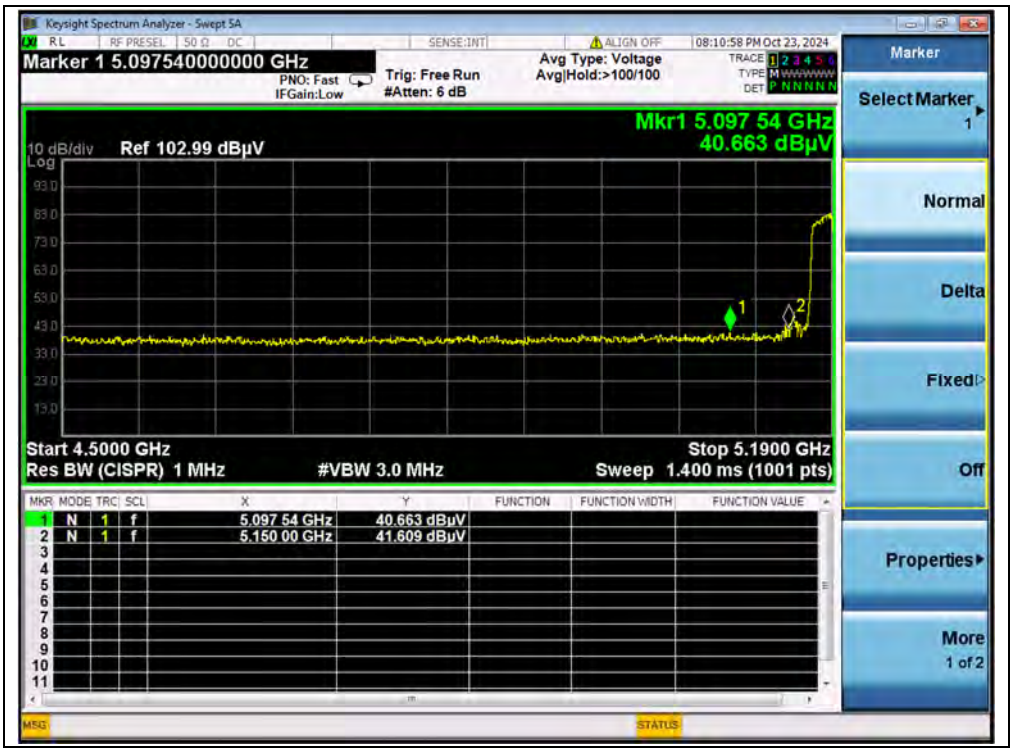
(PEAK, Channel 140, 802.11a)

(PEAK, Channel 149, 802.11a)

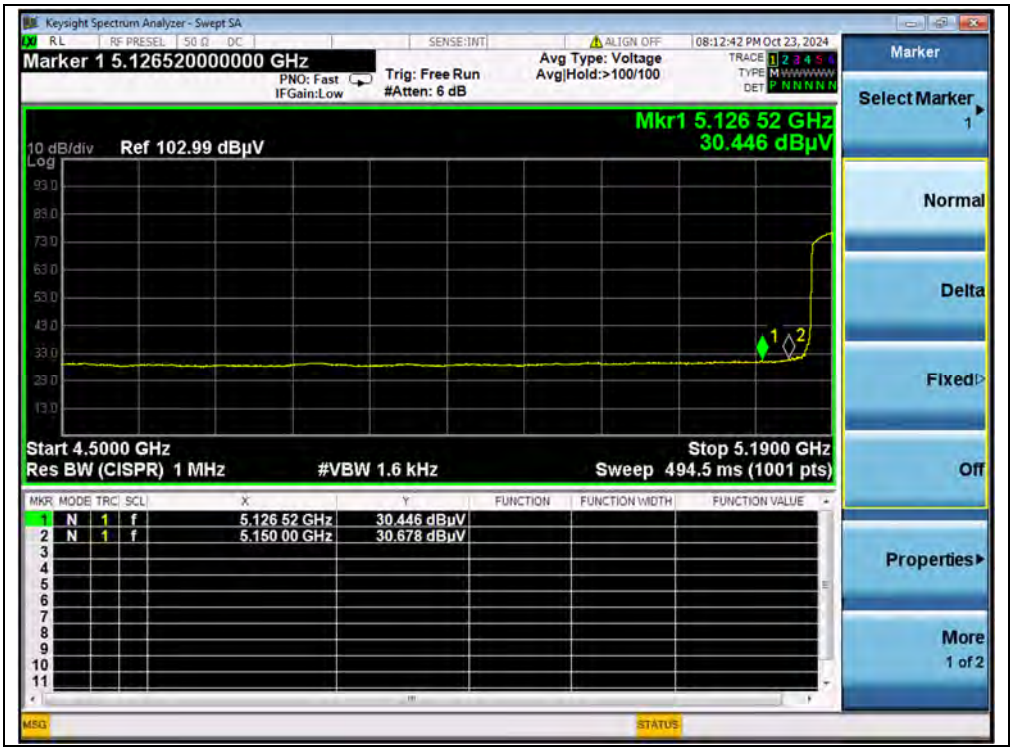
(PEAK, Channel 165, 802.11a)

802.11n (HT40) Mode

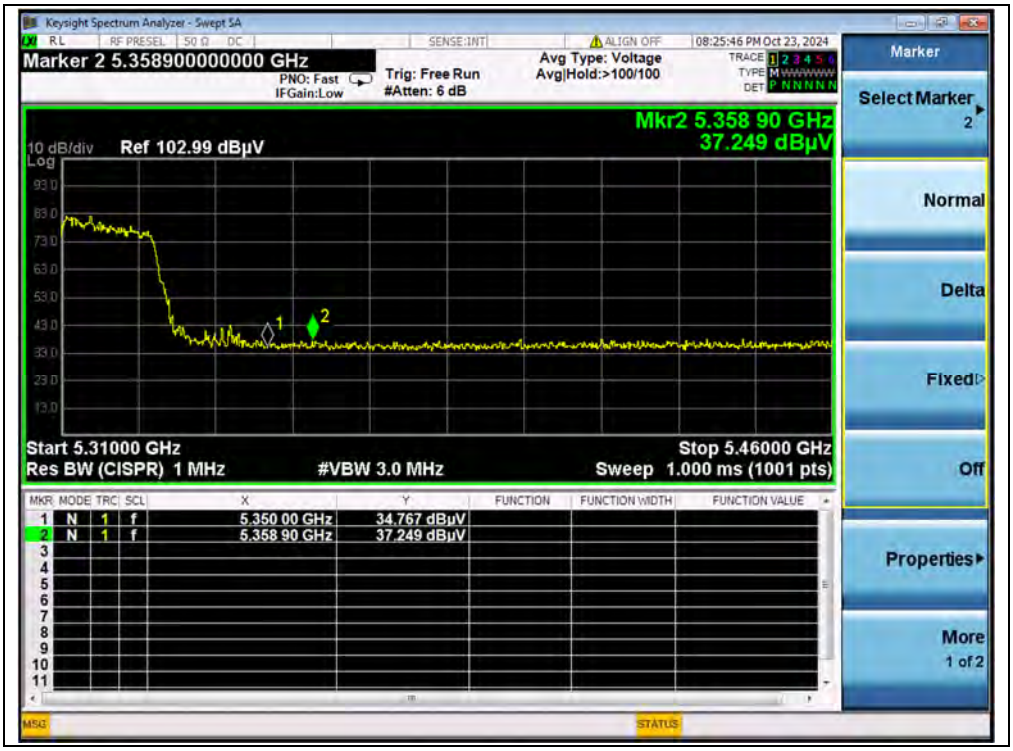
Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dBμV)	A_T (dB)	A_{Factor} (dB)	Max. Emission E (dBμV/m)	Limit (dBμV/m)	Verdict
		PK/ AV						
38	5150.00	PK	41.61	-16.90	33.10	57.81	74	PASS
38	5150.00	AV	30.68	-16.90	33.10	46.88	54	PASS
62	5358.90	PK	37.25	-15.40	33.00	54.85	74	PASS
62	5352.30	AV	28.94	-15.40	33.00	46.54	54	PASS
102	5318.75	PK	38.46	-16.00	33.60	56.06	68.23	PASS
102	5103.53	AV	29.94	-16.00	33.60	47.54	54	PASS
134	5818.83	PK	38.83	-16.00	33.60	56.43	68.23	PASS
151	5725.00	PK	51.56	-14.70	33.50	70.36	122.23	PASS
159	5850.00	PK	41.81	-14.70	33.50	60.61	122.23	PASS



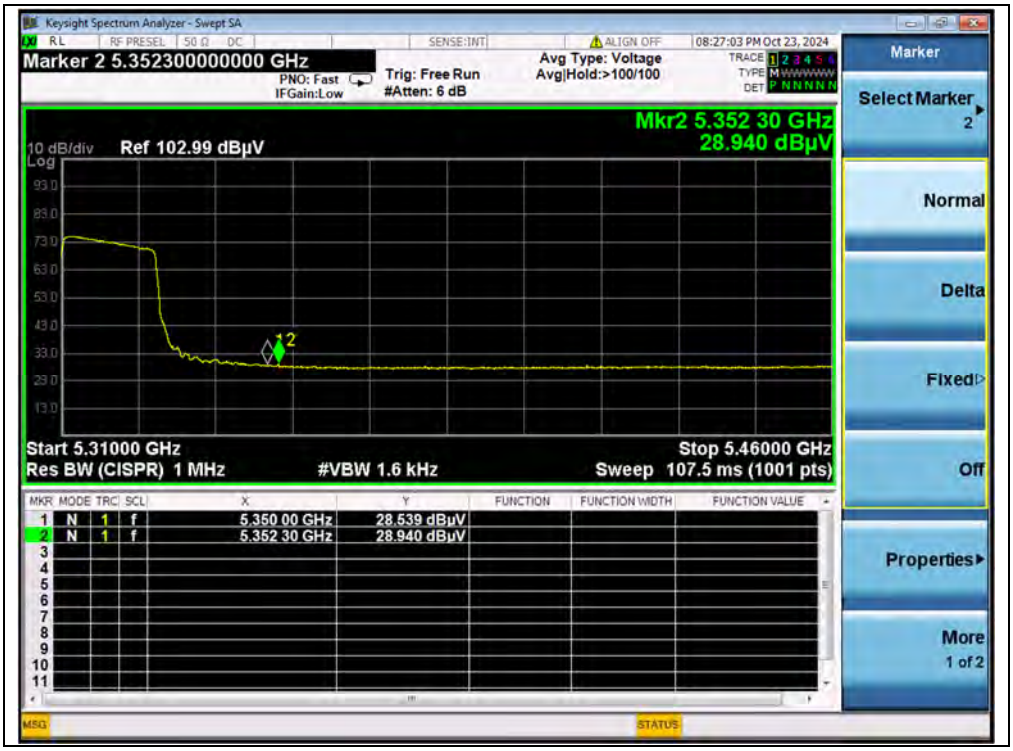
(PEAK, Channel 38, 802.11n (HT40))



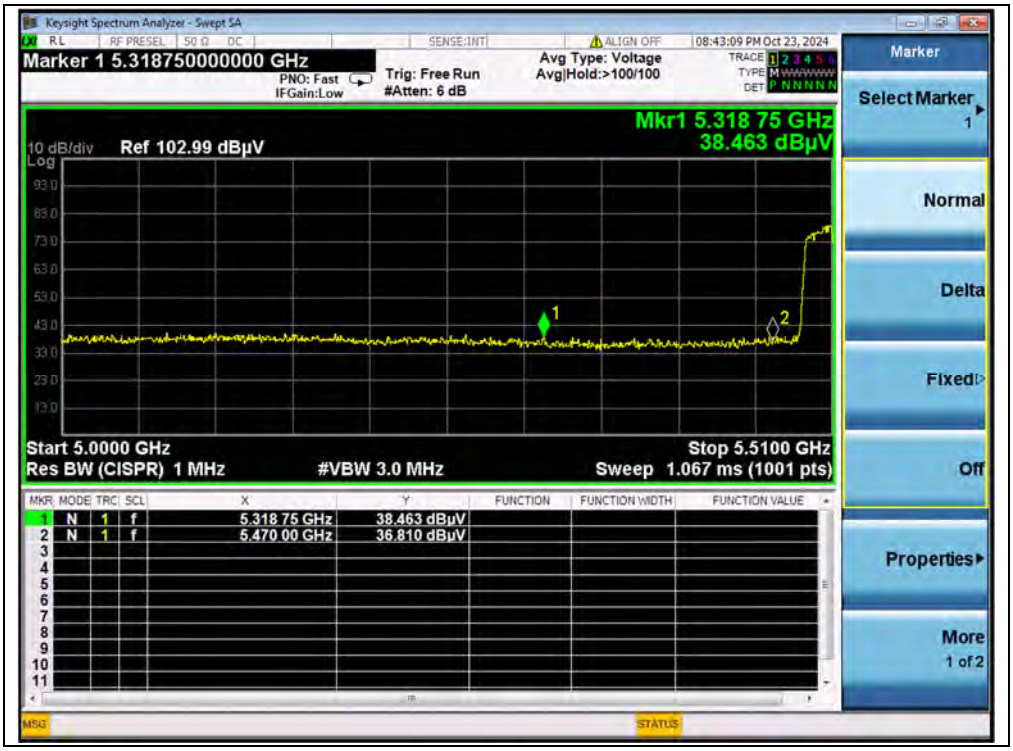
(AVERAGE, Channel 38, 802.11n (HT40))



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

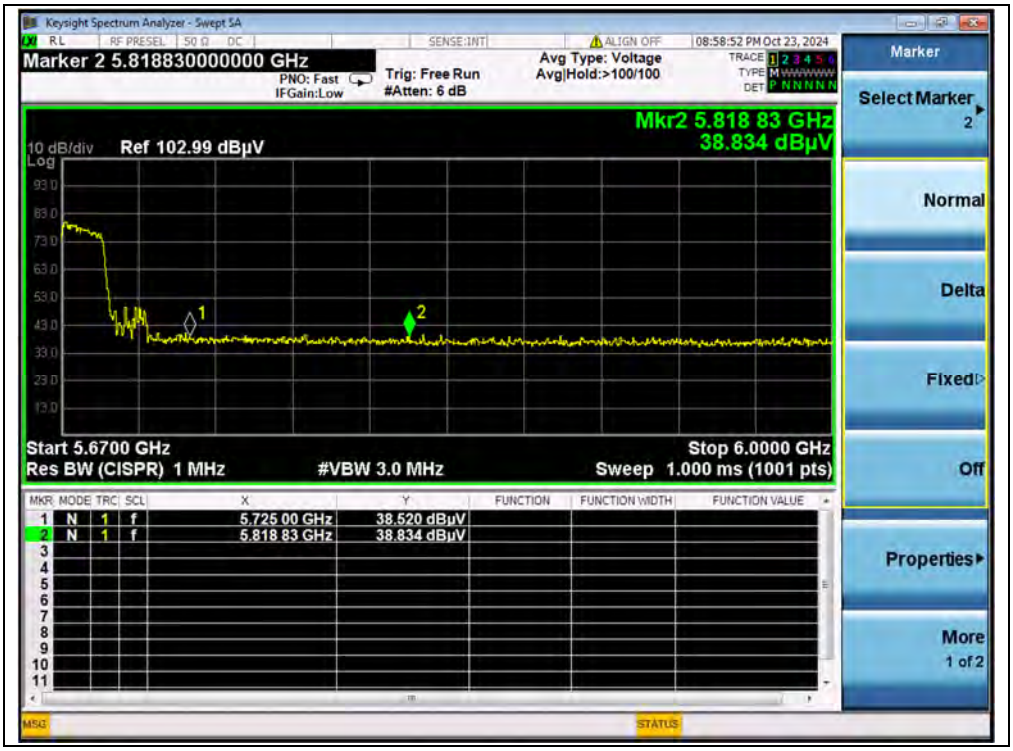


(AVERAGE, Channel 62, 802.11n (HT40))



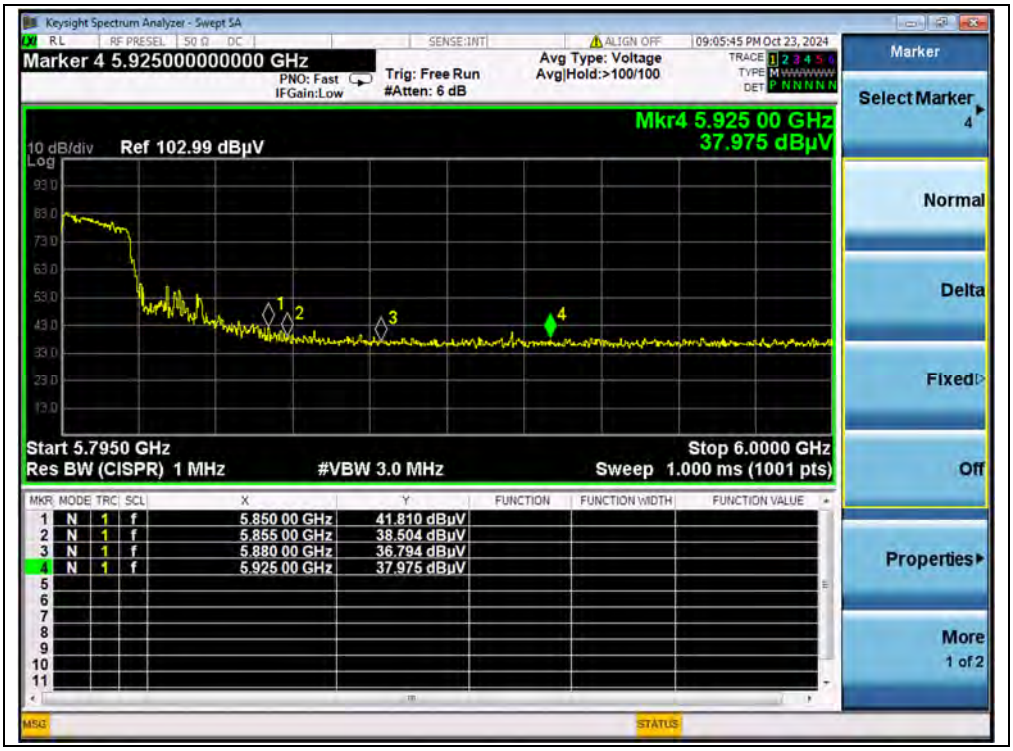
(PEAK, Channel 102, 802.11n (HT40))

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



(PEAK, Channel 134, 802.11n (HT40))

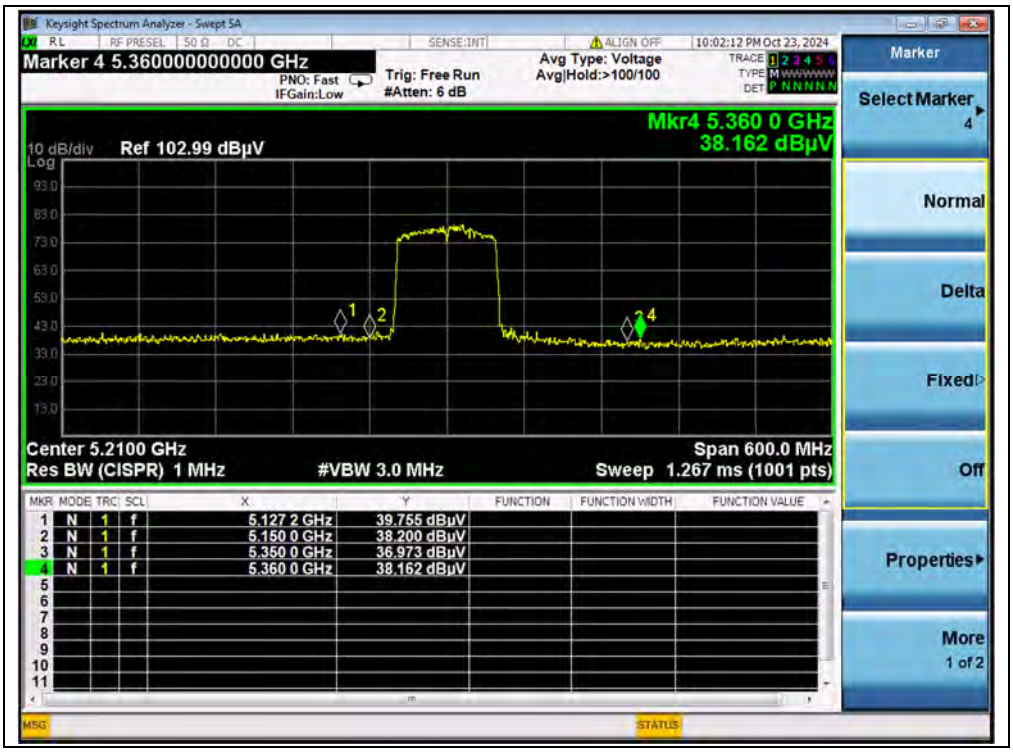
(PEAK, Channel 151, 802.11n (HT40))



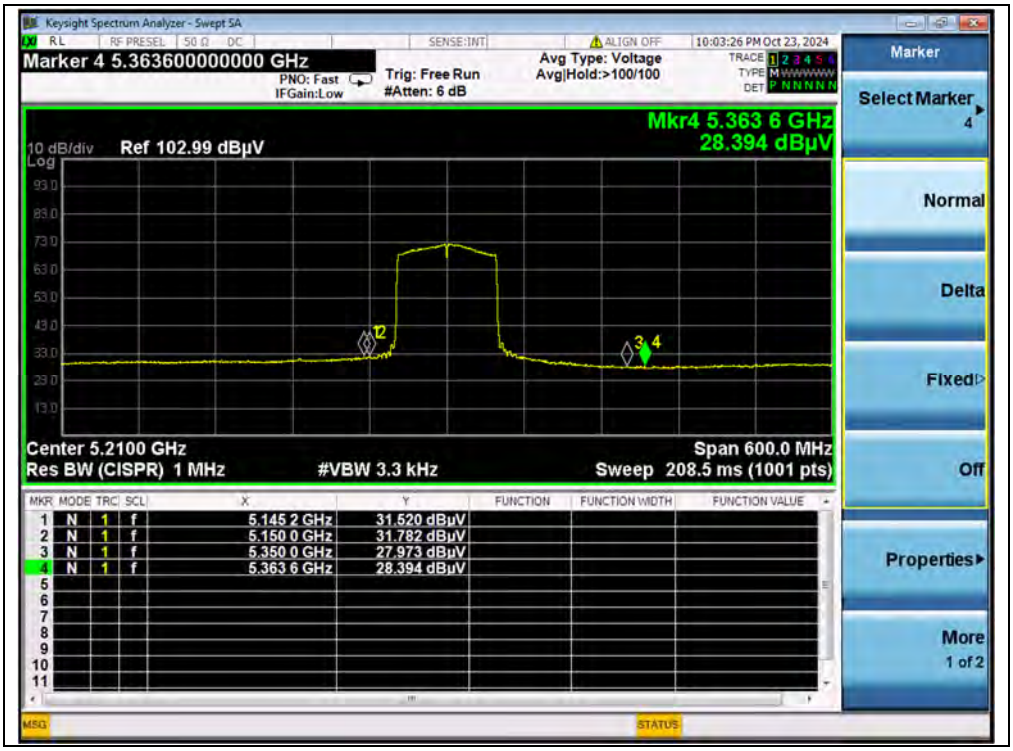
(PEAK, Channel 159, 802.11n (HT40))

802.11ac (VHT80) Mode

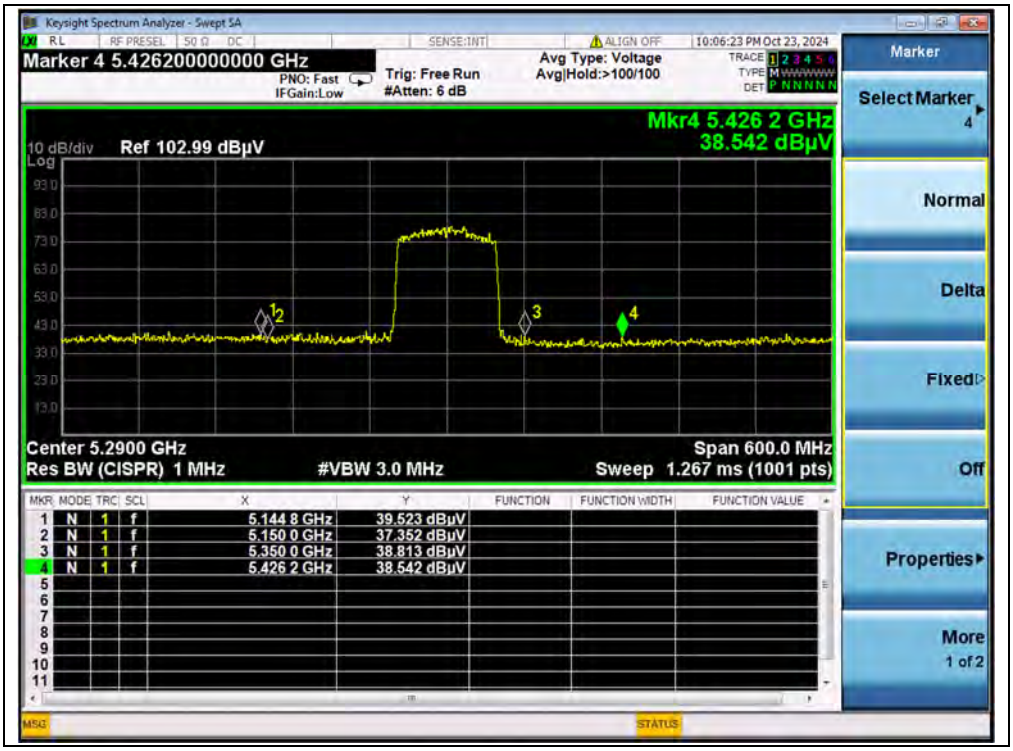
Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dBμV)	A_T (dB)	A_{Factor} (dB)	Max. Emission E (dBμV/m)	Limit (dBμV/m)	Verdict
		PK/ AV						
42	5127.20	PK	39.76	-16.90	33.10	55.96	74	PASS
42	5150.00	AV	31.78	-16.90	33.10	47.98	54	PASS
58	5350.00	PK	38.81	-15.40	33.00	56.41	74	PASS
58	5350.00	AV	30.16	-15.40	33.00	47.76	54	PASS
106	5126.14	PK	41.87	-16.00	33.60	59.47	74	PASS
106	5100.17	AV	30.40	-16.00	33.60	48.00	54	PASS
138	5744.55	PK	39.70	-16.00	33.60	57.30	68.23	PASS
155	5720.00	PK	48.97	-14.70	33.50	67.77	110.83	PASS
155	5855.00	PK	41.04	-14.70	33.50	59.84	110.83	PASS



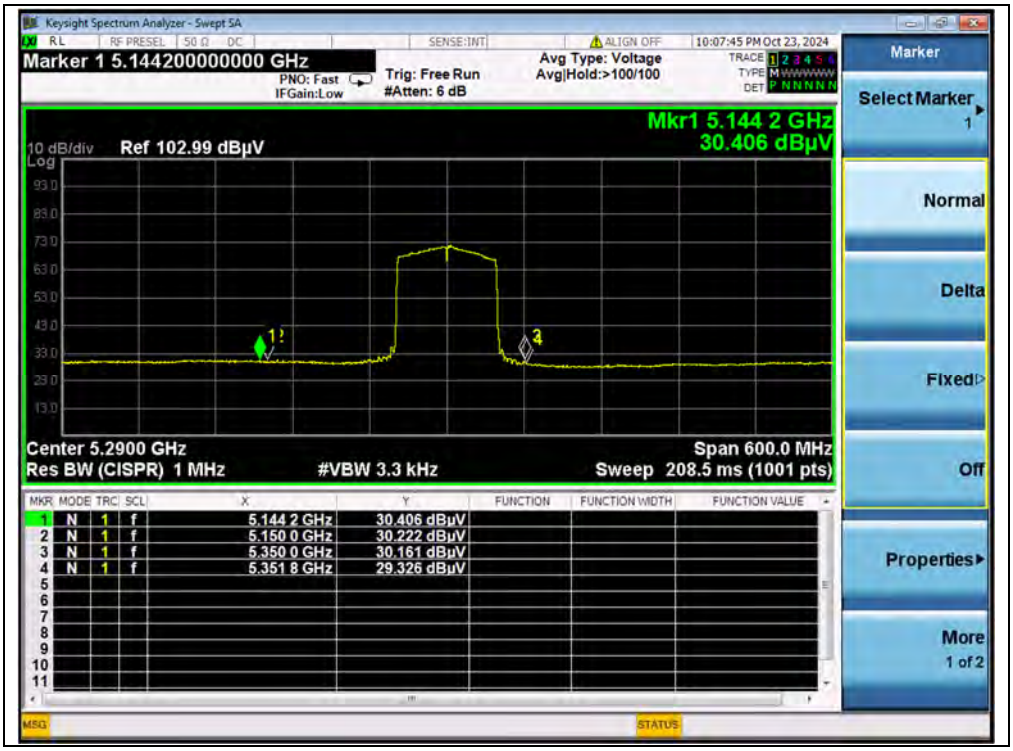
(PEAK, Channel 42, 802.11ac (VHT80))



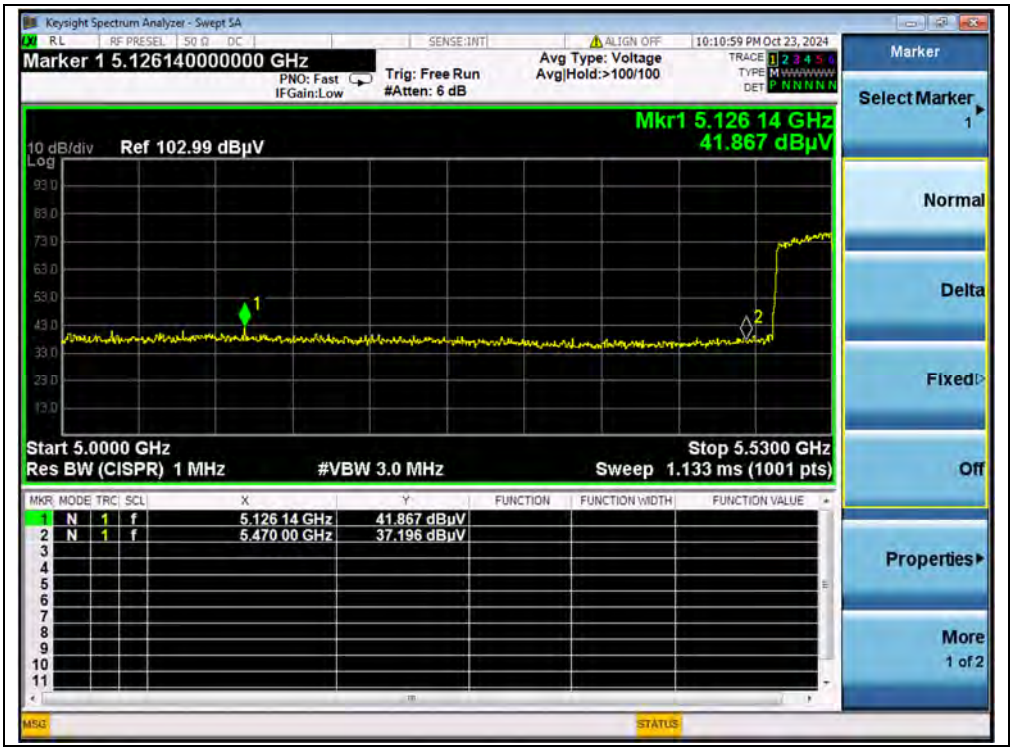
(AVERAGE, Channel 42, 802.11ac (VHT80))



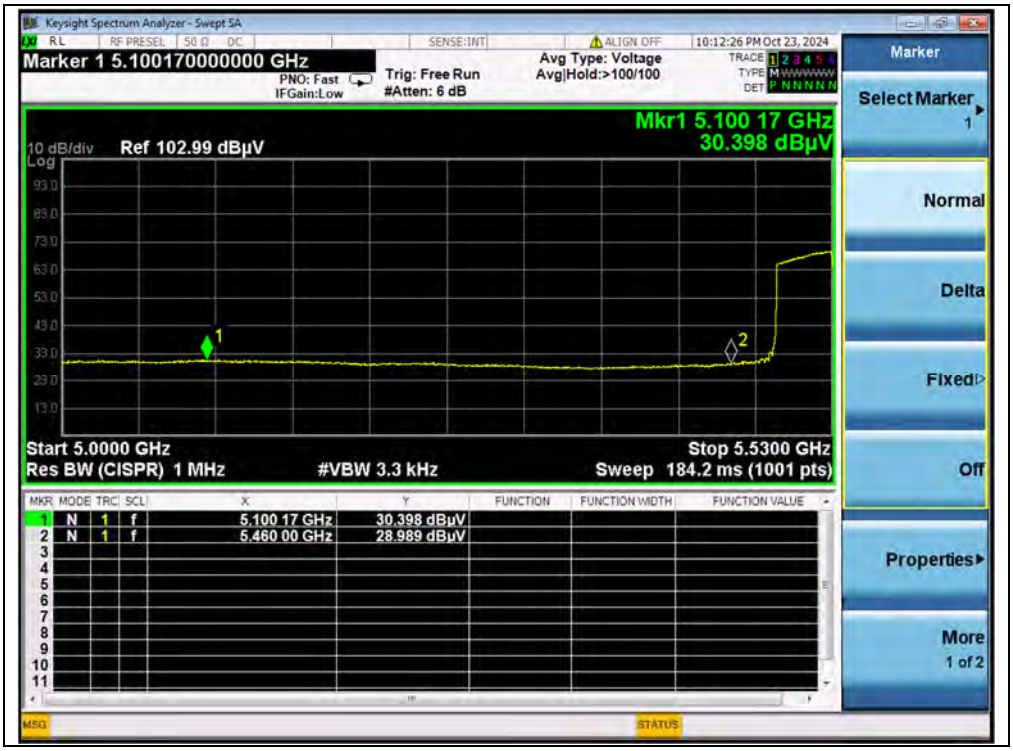
(PEAK, Channel 58, 802.11ac (VHT80))



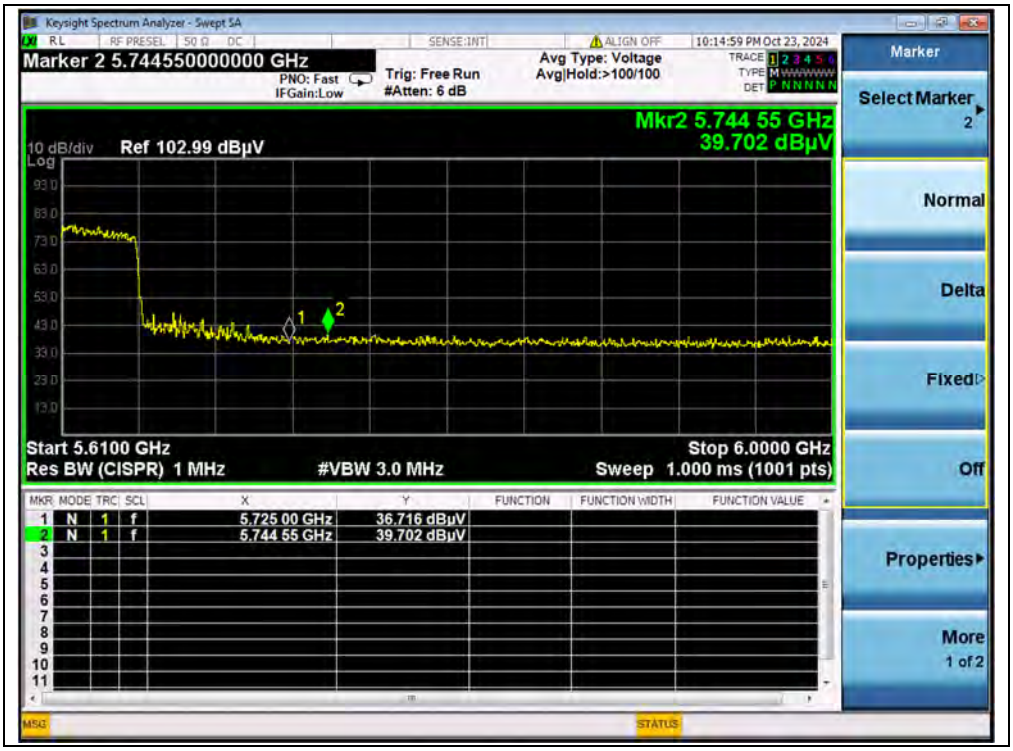
(AVERAGE, Channel 58, 802.11ac (VHT80))



(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 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 harmonic of the highest frequency, was pre-scanned and the result which was 20dB lower than the limit was not recorded.

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

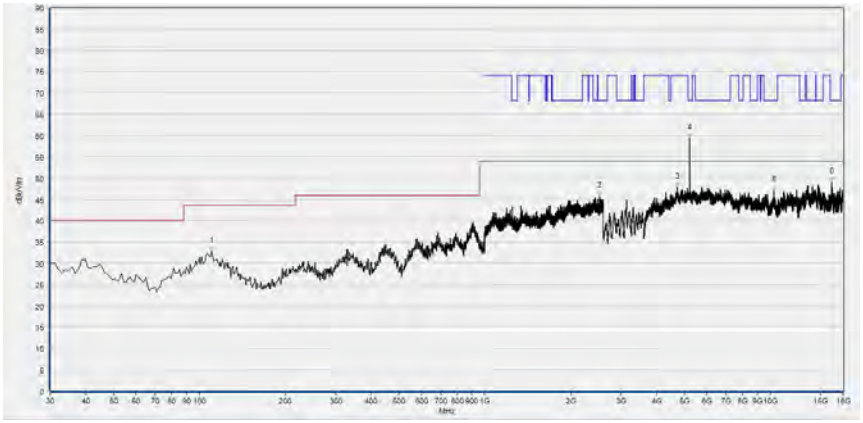
Field strength of fundamental:

Frequency (MHz)	Reading_Peak (dBμV/m)	Antenna Factor (dB)	Path Loss (dB)	Final_Peak (dBμV/m)	Antenna Polarity
5758.20	78.75	33.50	14.70	97.55	Horizontal

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

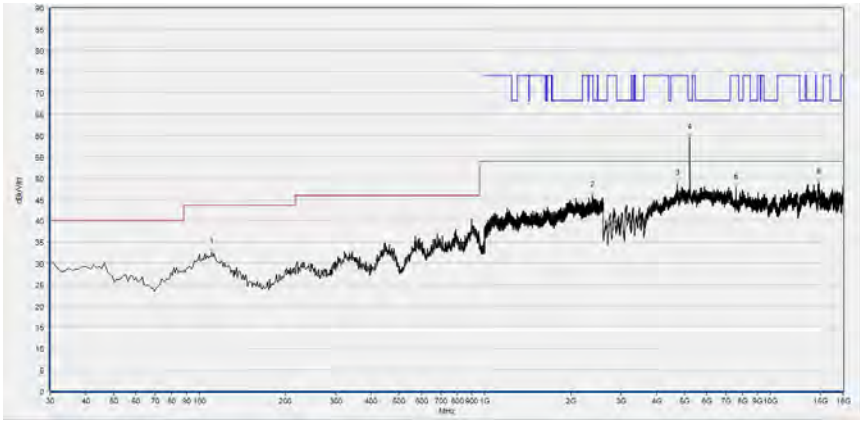
802.11a Mode

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
110.510	32.84	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2529.067	45.73	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
4719.040	47.96	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5218.000	59.32	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
10290.760	47.15	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
16453.840	49.10	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

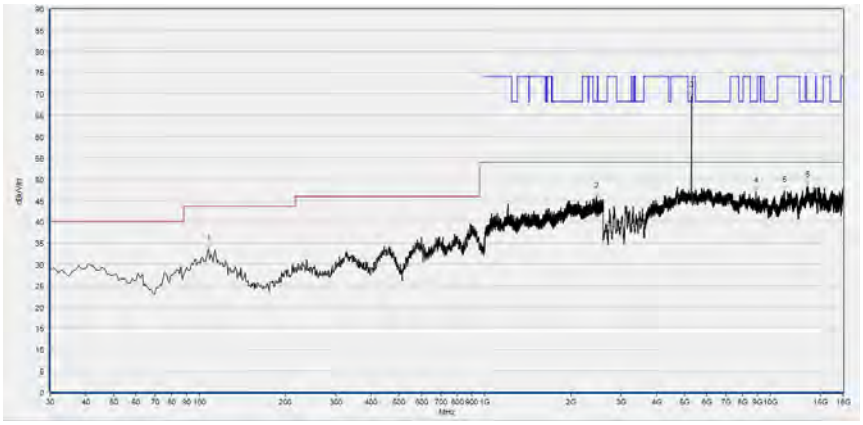
(Antenna Horizontal, 30MHz to 18GHz)



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	32.47	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2374.933	45.85	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4719.040	48.62	N/A	36.16	74.00	N/A	54.00	Vertical	PASS
5218.000	59.49	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
7592.680	47.69	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
14824.520	48.98	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

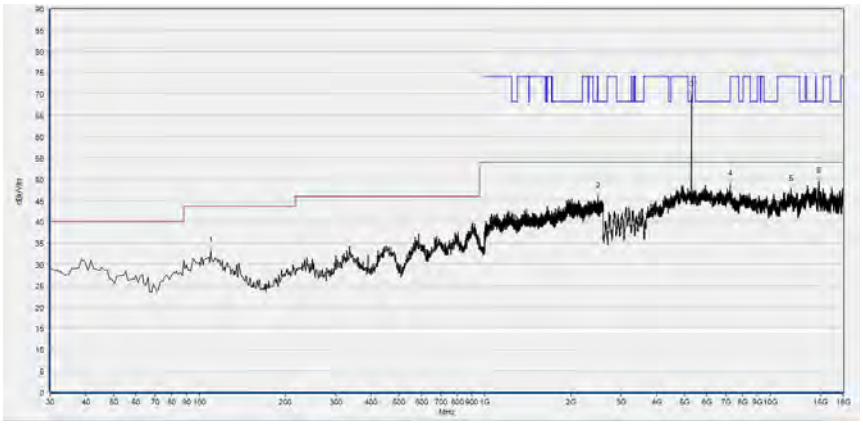
(Antenna Vertical, 30MHz to 18GHz)

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
107.600	33.58	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2458.667	45.98	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5304.240	69.52	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
8886.280	47.08	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
11193.200	47.19	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
13493.960	48.42	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

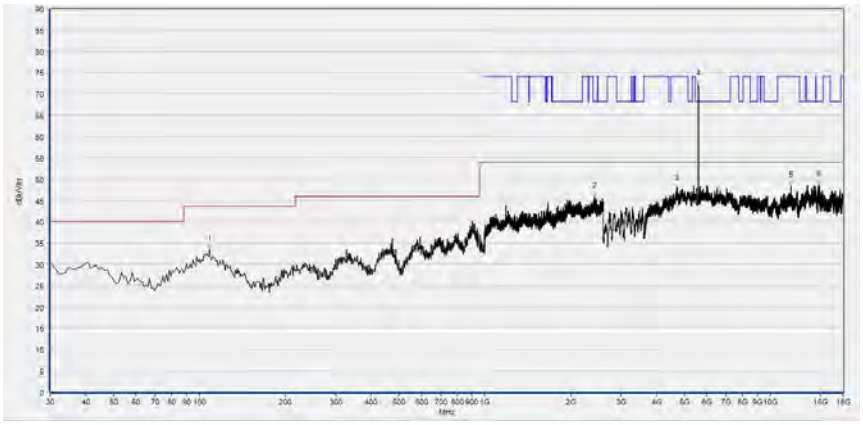
(Antenna Horizontal, 30MHz to 18GHz)



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
109.540	33.25	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2487.467	45.84	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5304.240	69.67	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
7223.080	48.77	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
11787.640	47.62	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
14790.640	49.47	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

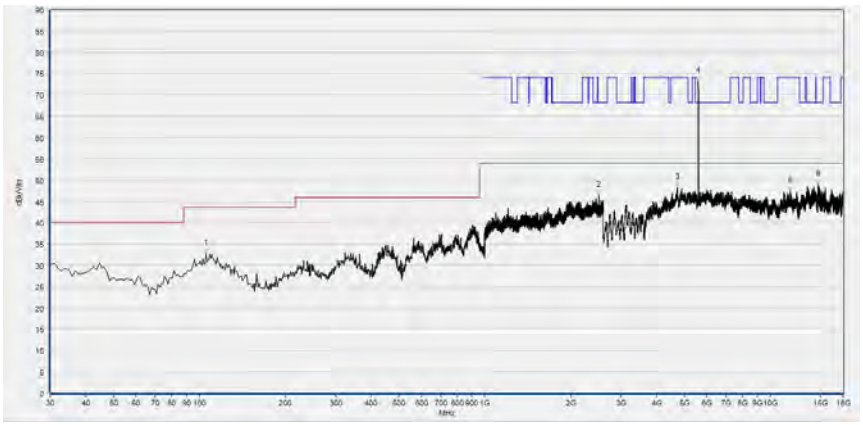
(Antenna Vertical, 30MHz to 18GHz)

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
108.570	33.57	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2422.933	45.91	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
4706.720	47.75	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5599.920	72.20	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
11799.960	48.41	N/A	35.30	74.00	N/A	54.00	Horizontal	PASS
14766.000	48.61	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

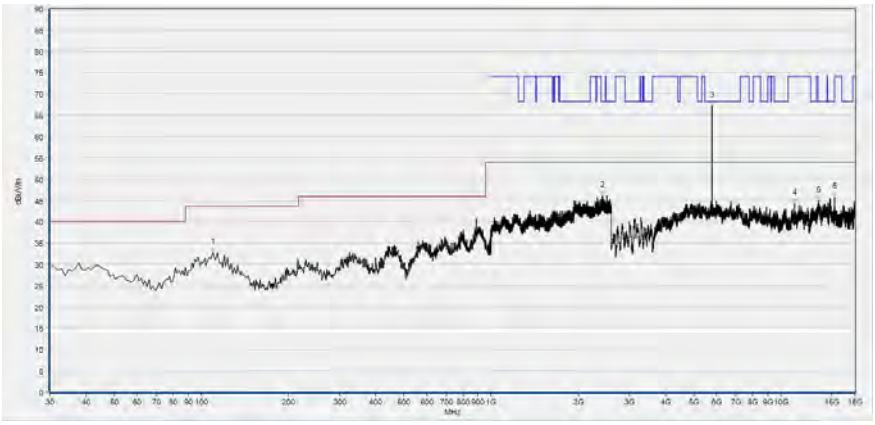
(Antenna Horizontal, 30MHz to 18GHz)



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	32.66	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2507.200	46.40	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
4719.040	48.22	N/A	36.24	74.00	N/A	54.00	Vertical	PASS
5599.920	73.17	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
11775.320	47.48	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
14735.200	48.93	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

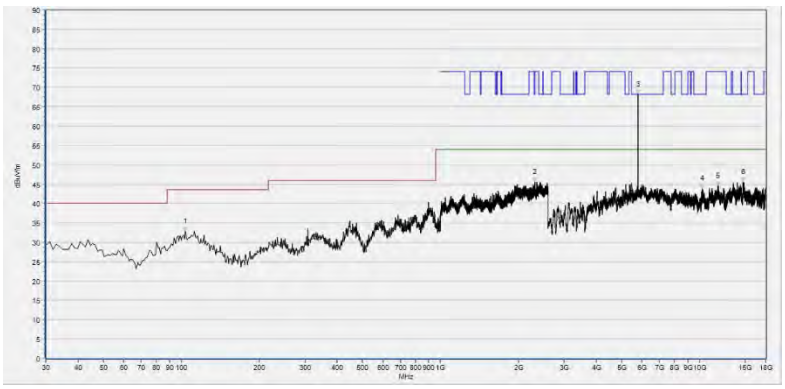
(Antenna Vertical, 30MHz to 18GHz)

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
109.540	32.60	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2428.800	46.02	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5784.720	67.20	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
11150.080	44.16	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
13512.440	44.88	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
15341.960	45.78	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
103.720	32.86	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2310.933	45.66	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5784.720	68.14	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
10235.320	43.98	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
11738.360	44.52	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
14747.520	45.55	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

END OF REPORT