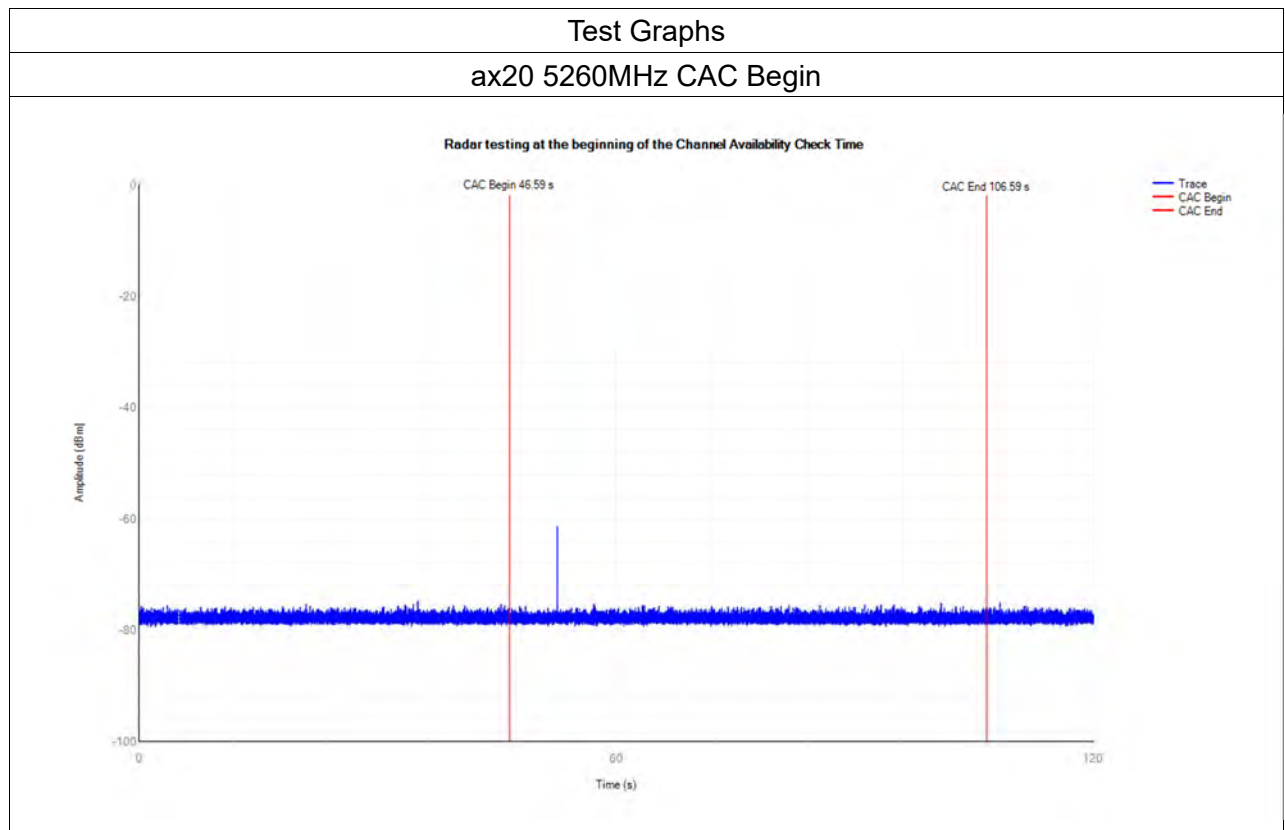


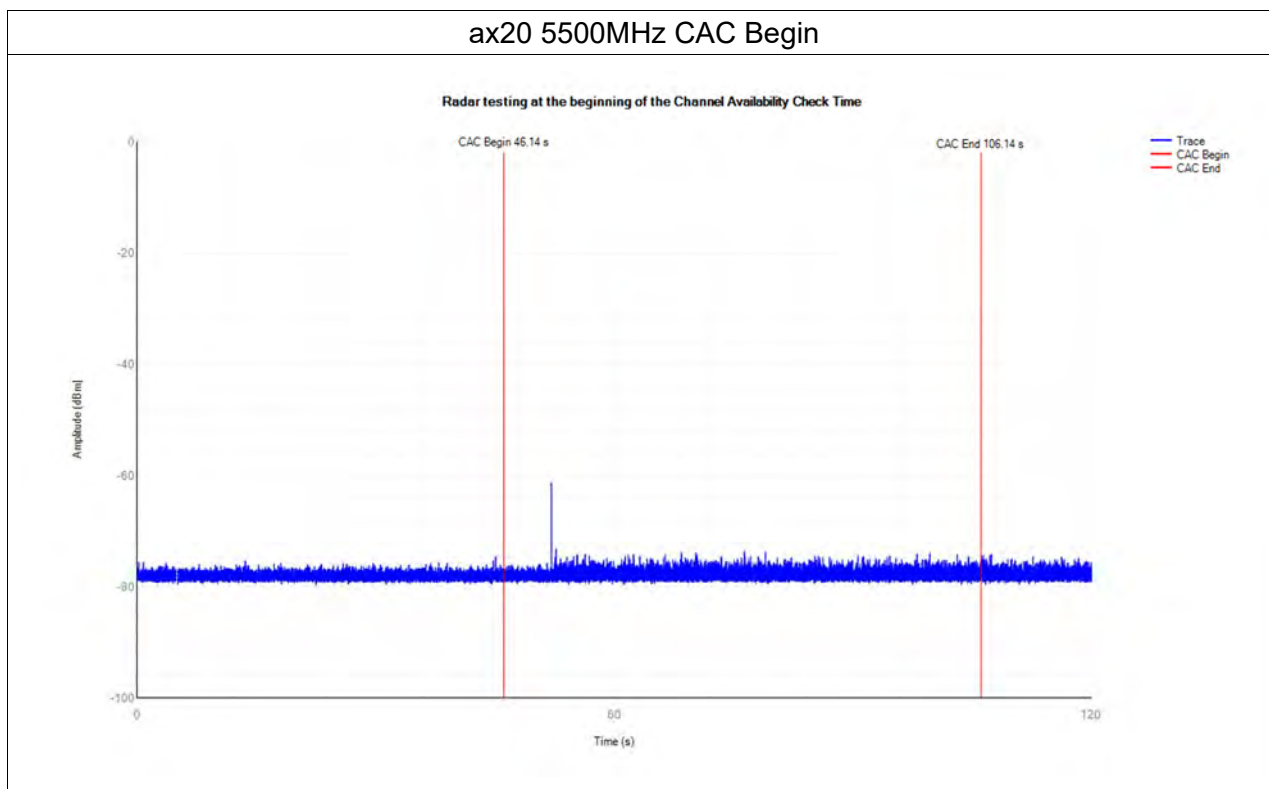


CAC Begin

Mode	Frequency (MHz)	Result	Verdict
ax20	5260	See test Graph	Pass
ax20	5500	See test Graph	Pass



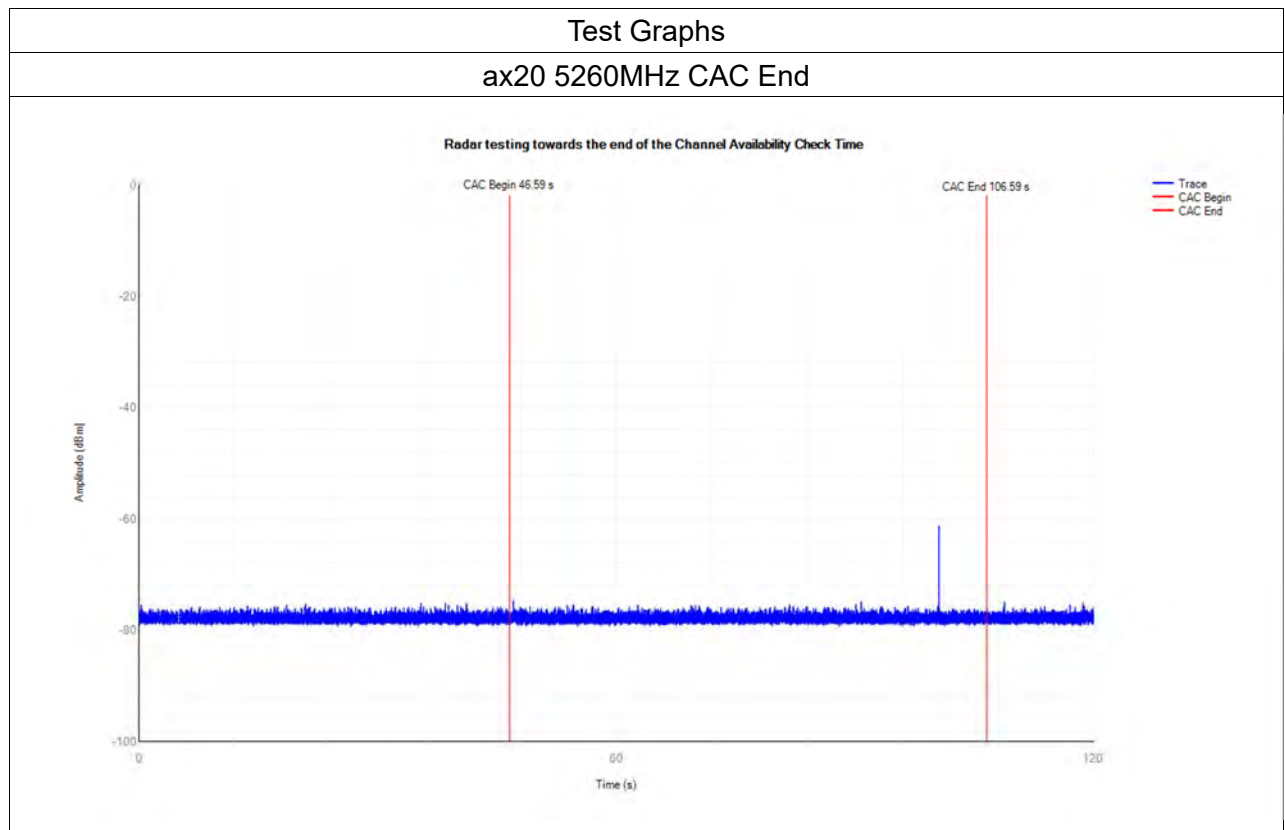
ax20 5500MHz CAC Begin



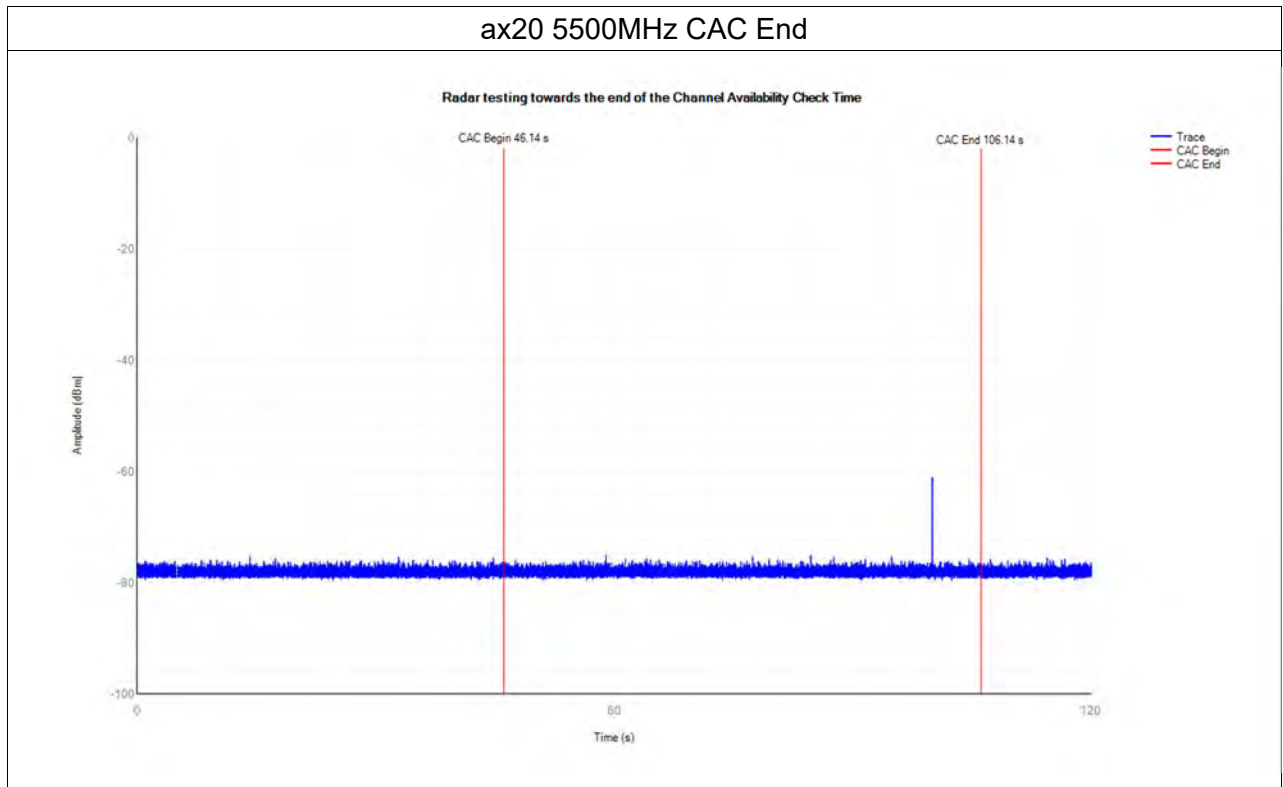


CAC End

Mode	Frequency (MHz)	Result	Verdict
ax20	5260	See test Graph	Pass
ax20	5500	See test Graph	Pass



ax20 5500MHz CAC End





Detection Bandwidth

Mode	Frequency (MHz)	Offset (MHz)	Detection Threshold (dBm)	Total No.	Detected No.	Detection Rate (%)	Limit (%)	Verdict
ax20	5260	-10	-62	10	10	100.00	90	Pass
ax20	5260	-9	-62	10	10	100.00	90	Pass
ax20	5260	-8	-62	10	10	100.00	90	Pass
ax20	5260	-7	-62	10	10	100.00	90	Pass
ax20	5260	-6	-62	10	10	100.00	90	Pass
ax20	5260	-5	-62	10	10	100.00	90	Pass
ax20	5260	-4	-62	10	10	100.00	90	Pass
ax20	5260	-3	-62	10	10	100.00	90	Pass
ax20	5260	-2	-62	10	10	100.00	90	Pass
ax20	5260	-1	-62	10	10	100.00	90	Pass
ax20	5260	0	-62	10	10	100.00	90	Pass
ax20	5260	1	-62	10	10	100.00	90	Pass
ax20	5260	2	-62	10	10	100.00	90	Pass
ax20	5260	3	-62	10	10	100.00	90	Pass
ax20	5260	4	-62	10	10	100.00	90	Pass
ax20	5260	5	-62	10	10	100.00	90	Pass
ax20	5260	6	-62	10	10	100.00	90	Pass
ax20	5260	7	-62	10	10	100.00	90	Pass
ax20	5260	8	-62	10	10	100.00	90	Pass
ax20	5260	9	-62	10	10	100.00	90	Pass
ax20	5260	10	-62	10	10	100.00	90	Pass
ax20	5500	-10	-62	10	10	100.00	90	Pass
ax20	5500	-9	-62	10	10	100.00	90	Pass
ax20	5500	-8	-62	10	10	100.00	90	Pass
ax20	5500	-7	-62	10	10	100.00	90	Pass
ax20	5500	-6	-62	10	10	100.00	90	Pass
ax20	5500	-5	-62	10	10	100.00	90	Pass
ax20	5500	-4	-62	10	10	100.00	90	Pass
ax20	5500	-3	-62	10	10	100.00	90	Pass
ax20	5500	-2	-62	10	10	100.00	90	Pass
ax20	5500	-1	-62	10	10	100.00	90	Pass
ax20	5500	0	-62	10	10	100.00	90	Pass
ax20	5500	1	-62	10	10	100.00	90	Pass
ax20	5500	2	-62	10	10	100.00	90	Pass



ax20	5500	3	-62	10	10	100.00	90	Pass
ax20	5500	4	-62	10	10	100.00	90	Pass
ax20	5500	5	-62	10	10	100.00	90	Pass
ax20	5500	6	-62	10	10	100.00	90	Pass
ax20	5500	7	-62	10	10	100.00	90	Pass
ax20	5500	8	-62	10	10	100.00	90	Pass
ax20	5500	9	-62	10	10	100.00	90	Pass
ax20	5500	10	-62	10	10	100.00	90	Pass
ax40	5270	-10	-62	10	10	100.00	90	Pass
ax40	5270	-9	-62	10	10	100.00	90	Pass
ax40	5270	-8	-62	10	10	100.00	90	Pass
ax40	5270	-7	-62	10	10	100.00	90	Pass
ax40	5270	-6	-62	10	10	100.00	90	Pass
ax40	5270	-5	-62	10	10	100.00	90	Pass
ax40	5270	-4	-62	10	10	100.00	90	Pass
ax40	5270	-3	-62	10	10	100.00	90	Pass
ax40	5270	-2	-62	10	10	100.00	90	Pass
ax40	5270	-1	-62	10	10	100.00	90	Pass
ax40	5270	0	-62	10	10	100.00	90	Pass
ax40	5270	1	-62	10	10	100.00	90	Pass
ax40	5270	2	-62	10	10	100.00	90	Pass
ax40	5270	3	-62	10	10	100.00	90	Pass
ax40	5270	4	-62	10	10	100.00	90	Pass
ax40	5270	5	-62	10	10	100.00	90	Pass
ax40	5270	6	-62	10	10	100.00	90	Pass
ax40	5270	7	-62	10	10	100.00	90	Pass
ax40	5270	8	-62	10	10	100.00	90	Pass
ax40	5270	9	-62	10	10	100.00	90	Pass
ax40	5270	10	-62	10	10	100.00	90	Pass
ax40	5510	-10	-62	10	10	100.00	90	Pass
ax40	5510	-9	-62	10	10	100.00	90	Pass
ax40	5510	-8	-62	10	10	100.00	90	Pass
ax40	5510	-7	-62	10	10	100.00	90	Pass
ax40	5510	-6	-62	10	10	100.00	90	Pass
ax40	5510	-5	-62	10	10	100.00	90	Pass
ax40	5510	-4	-62	10	10	100.00	90	Pass
ax40	5510	-3	-62	10	10	100.00	90	Pass
ax40	5510	-2	-62	10	10	100.00	90	Pass



REPORT No.: SZ24060193W08

ax40	5510	-1	-62	10	10	100.00	90	Pass
ax40	5510	0	-62	10	10	100.00	90	Pass
ax40	5510	1	-62	10	10	100.00	90	Pass
ax40	5510	2	-62	10	10	100.00	90	Pass
ax40	5510	3	-62	10	10	100.00	90	Pass
ax40	5510	4	-62	10	10	100.00	90	Pass
ax40	5510	5	-62	10	10	100.00	90	Pass
ax40	5510	6	-62	10	10	100.00	90	Pass
ax40	5510	7	-62	10	10	100.00	90	Pass
ax40	5510	8	-62	10	10	100.00	90	Pass
ax40	5510	9	-62	10	10	100.00	90	Pass
ax40	5510	10	-62	10	10	100.00	90	Pass
ax80	5290	-10	-62	10	10	100.00	90	Pass
ax80	5290	-9	-62	10	10	100.00	90	Pass
ax80	5290	-8	-62	10	10	100.00	90	Pass
ax80	5290	-7	-62	10	10	100.00	90	Pass
ax80	5290	-6	-62	10	10	100.00	90	Pass
ax80	5290	-5	-62	10	10	100.00	90	Pass
ax80	5290	-4	-62	10	10	100.00	90	Pass
ax80	5290	-3	-62	10	10	100.00	90	Pass
ax80	5290	-2	-62	10	10	100.00	90	Pass
ax80	5290	-1	-62	10	10	100.00	90	Pass
ax80	5290	0	-62	10	10	100.00	90	Pass
ax80	5290	1	-62	10	10	100.00	90	Pass
ax80	5290	2	-62	10	10	100.00	90	Pass
ax80	5290	3	-62	10	10	100.00	90	Pass
ax80	5290	4	-62	10	10	100.00	90	Pass
ax80	5290	5	-62	10	10	100.00	90	Pass
ax80	5290	6	-62	10	10	100.00	90	Pass
ax80	5290	7	-62	10	10	100.00	90	Pass
ax80	5290	8	-62	10	10	100.00	90	Pass
ax80	5290	9	-62	10	10	100.00	90	Pass
ax80	5290	10	-62	10	10	100.00	90	Pass
ax80	5530	-10	-62	10	10	100.00	90	Pass
ax80	5530	-9	-62	10	10	100.00	90	Pass
ax80	5530	-8	-62	10	10	100.00	90	Pass
ax80	5530	-7	-62	10	10	100.00	90	Pass
ax80	5530	-6	-62	10	10	100.00	90	Pass



ax80	5530	-5	-62	10	10	100.00	90	Pass
ax80	5530	-4	-62	10	10	100.00	90	Pass
ax80	5530	-3	-62	10	10	100.00	90	Pass
ax80	5530	-2	-62	10	10	100.00	90	Pass
ax80	5530	-1	-62	10	10	100.00	90	Pass
ax80	5530	0	-62	10	10	100.00	90	Pass
ax80	5530	1	-62	10	10	100.00	90	Pass
ax80	5530	2	-62	10	10	100.00	90	Pass
ax80	5530	3	-62	10	10	100.00	90	Pass
ax80	5530	4	-62	10	10	100.00	90	Pass
ax80	5530	5	-62	10	10	100.00	90	Pass
ax80	5530	6	-62	10	10	100.00	90	Pass
ax80	5530	7	-62	10	10	100.00	90	Pass
ax80	5530	8	-62	10	10	100.00	90	Pass
ax80	5530	9	-62	10	10	100.00	90	Pass
ax80	5530	10	-62	10	10	100.00	90	Pass
ax160	5570	-10	-62	10	10	100.00	90	Pass
ax160	5570	-9	-62	10	10	100.00	90	Pass
ax160	5570	-8	-62	10	10	100.00	90	Pass
ax160	5570	-7	-62	10	10	100.00	90	Pass
ax160	5570	-6	-62	10	10	100.00	90	Pass
ax160	5570	-5	-62	10	10	100.00	90	Pass
ax160	5570	-4	-62	10	10	100.00	90	Pass
ax160	5570	-3	-62	10	10	100.00	90	Pass
ax160	5570	-2	-62	10	10	100.00	90	Pass
ax160	5570	-1	-62	10	10	100.00	90	Pass
ax160	5570	0	-62	10	10	100.00	90	Pass
ax160	5570	1	-62	10	10	100.00	90	Pass
ax160	5570	2	-62	10	10	100.00	90	Pass
ax160	5570	3	-62	10	10	100.00	90	Pass
ax160	5570	4	-62	10	10	100.00	90	Pass
ax160	5570	5	-62	10	10	100.00	90	Pass
ax160	5570	6	-62	10	10	100.00	90	Pass
ax160	5570	7	-62	10	10	100.00	90	Pass
ax160	5570	8	-62	10	10	100.00	90	Pass
ax160	5570	9	-62	10	10	100.00	90	Pass
ax160	5570	10	-62	10	10	100.00	90	Pass



In-Service Monitoring

Mode	Frequency (MHz)	Radar Type	Detection Threshold (dBm)	Total No.	Detected No.	Detection Rate (%)	Limit (%)	Verdict
ax20	5260	Type1	-62	30	30	100.00	60	Pass
ax20	5260	Type2	-62	30	30	100.00	60	Pass
ax20	5260	Type3	-62	30	30	100.00	60	Pass
ax20	5260	Type4	-62	30	30	100.00	60	Pass
ax20	5260	Type5	-62	30	30	100.00	80	Pass
ax20	5260	Type6	-62	30	30	100.00	70	Pass
ax20	5500	Type1	-62	30	30	100.00	60	Pass
ax20	5500	Type2	-62	30	30	100.00	60	Pass
ax20	5500	Type3	-62	30	30	100.00	60	Pass
ax20	5500	Type4	-62	30	30	100.00	60	Pass
ax20	5500	Type5	-62	30	30	100.00	80	Pass
ax20	5500	Type6	-62	30	30	100.00	70	Pass
ax40	5270	Type1	-62	30	30	100.00	60	Pass
ax40	5270	Type2	-62	30	30	100.00	60	Pass
ax40	5270	Type3	-62	30	30	100.00	60	Pass
ax40	5270	Type4	-62	30	30	100.00	60	Pass
ax40	5270	Type5	-62	30	30	100.00	80	Pass
ax40	5270	Type6	-62	30	30	100.00	70	Pass
ax40	5510	Type1	-62	30	30	100.00	60	Pass
ax40	5510	Type2	-62	30	30	100.00	60	Pass
ax40	5510	Type3	-62	30	30	100.00	60	Pass
ax40	5510	Type4	-62	30	30	100.00	60	Pass
ax40	5510	Type5	-62	30	30	100.00	80	Pass
ax40	5510	Type6	-62	30	30	100.00	70	Pass
ax80	5290	Type1	-62	30	30	100.00	60	Pass
ax80	5290	Type2	-62	30	30	100.00	60	Pass
ax80	5290	Type3	-62	30	30	100.00	60	Pass
ax80	5290	Type4	-62	30	30	100.00	60	Pass
ax80	5290	Type5	-62	30	30	100.00	80	Pass
ax80	5290	Type6	-62	30	30	100.00	70	Pass
ax80	5530	Type1	-62	30	30	100.00	60	Pass
ax80	5530	Type2	-62	30	30	100.00	60	Pass
ax80	5530	Type3	-62	30	30	100.00	60	Pass
ax80	5530	Type4	-62	30	30	100.00	60	Pass



REPORT No.: SZ24060193W08

ax80	5530	Type5	-62	30	30	100.00	80	Pass
ax80	5530	Type6	-62	30	30	100.00	70	Pass
ax160	5570	Type1	-62	30	30	100.00	60	Pass
ax160	5570	Type2	-62	30	30	100.00	60	Pass
ax160	5570	Type3	-62	30	30	100.00	60	Pass
ax160	5570	Type4	-62	30	30	100.00	60	Pass
ax160	5570	Type5	-62	30	30	100.00	80	Pass
ax160	5570	Type6	-62	30	30	100.00	70	Pass



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
ax80	5290	1.08	10	0.029	0.26	0.025	0.06	Pass
ax160	5570	1.062	10	0.057	0.26	0.048	0.06	Pass

Spectrum analyzer settings:

Span: Zero

Detector type: Peak

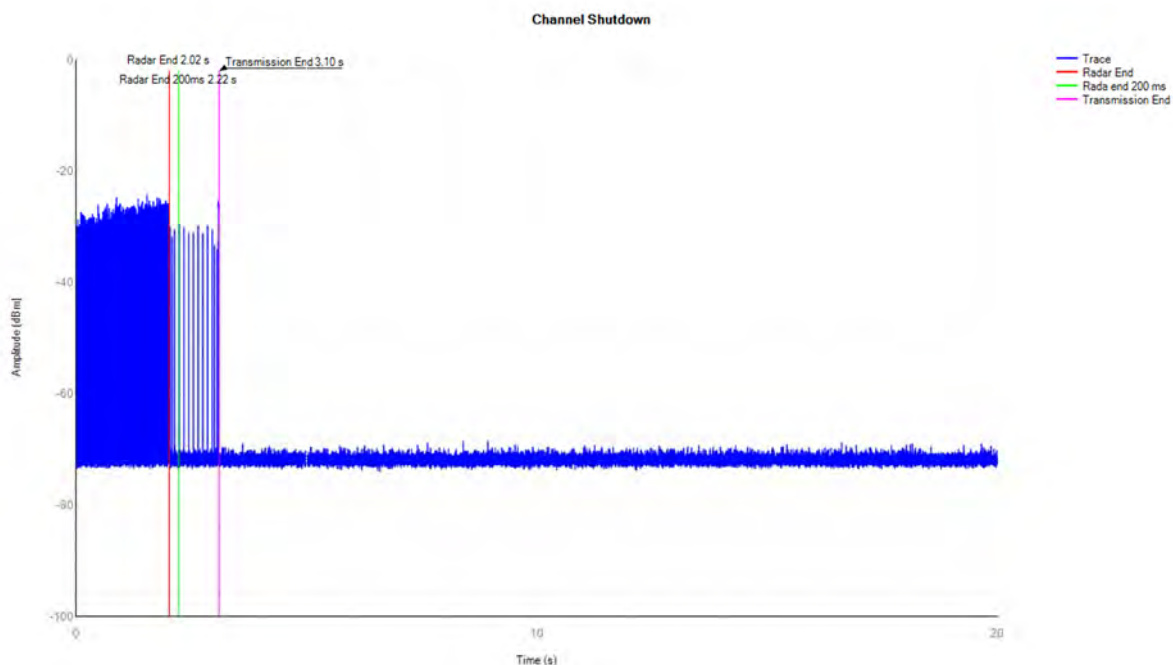
RBW: 3MHz

VBW: 3MHz

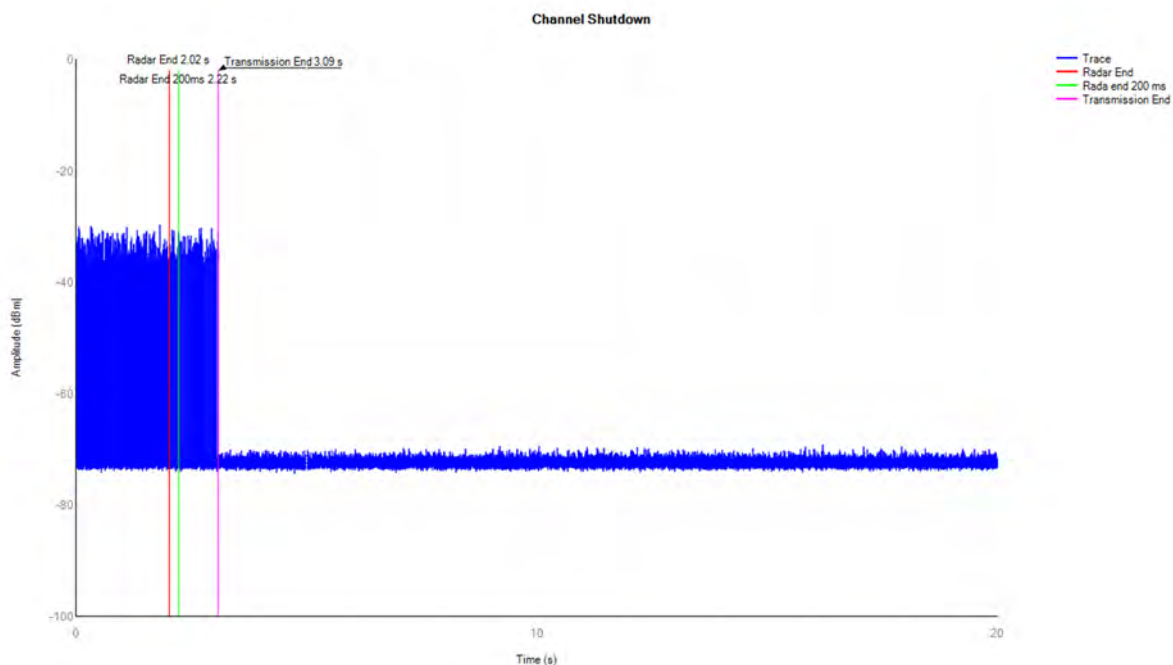
Sweep time: 20s

Test Graphs

ax80 5290MHz Shutdown



ax160 5570MHz Shutdown



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.



REPORT No.: SZ24060193W08

Non-Occupancy Period

Mode	Frequency (MHz)	Result	Verdict
ax80	5290	See test Graph	Pass
ax160	5570	See test Graph	Pass

Spectrum analyzer settings:

Span: Zero

Detector type: Peak

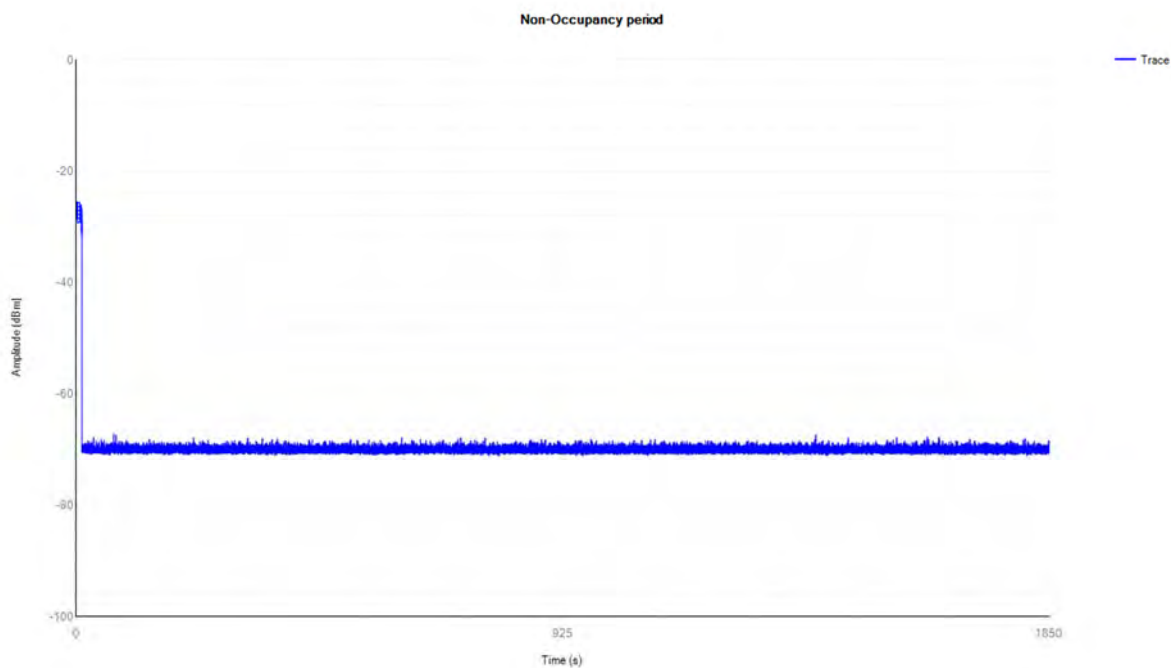
RBW: 3MHz

VBW: 3MHz

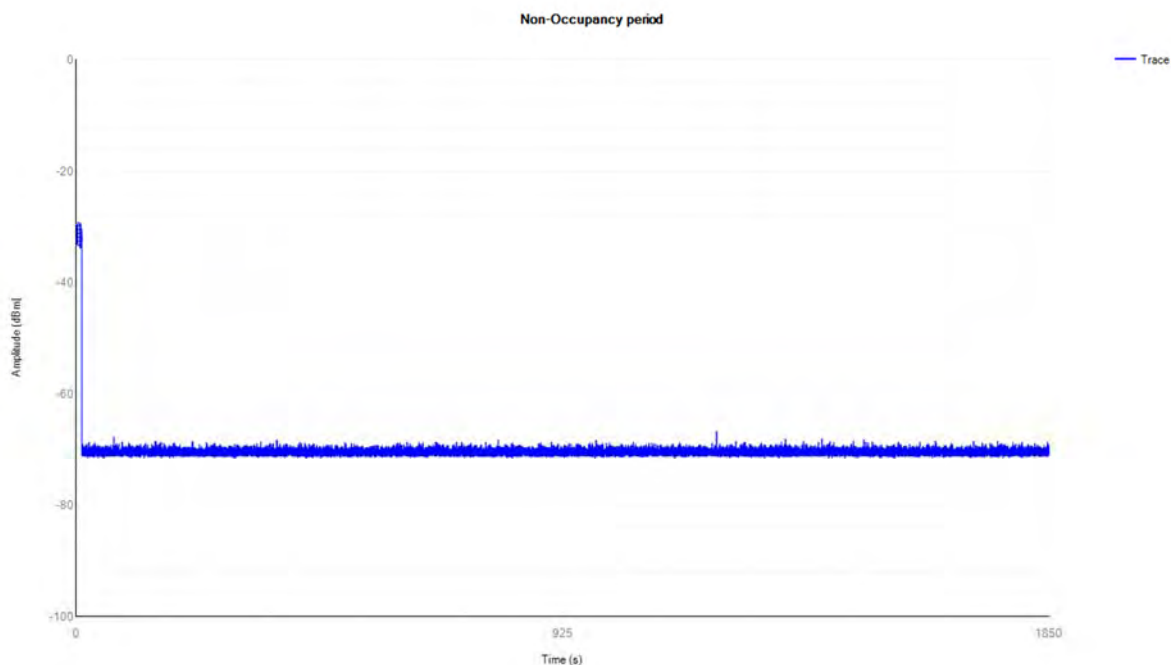
Sweep time: 1850s

Test Graphs

ax80 5290MHz Non-Occupancy



ax160 5570MHz Non-Occupancy





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+PC+PC Adapter+WIFI TX

Test voltage: AC 120V/60Hz

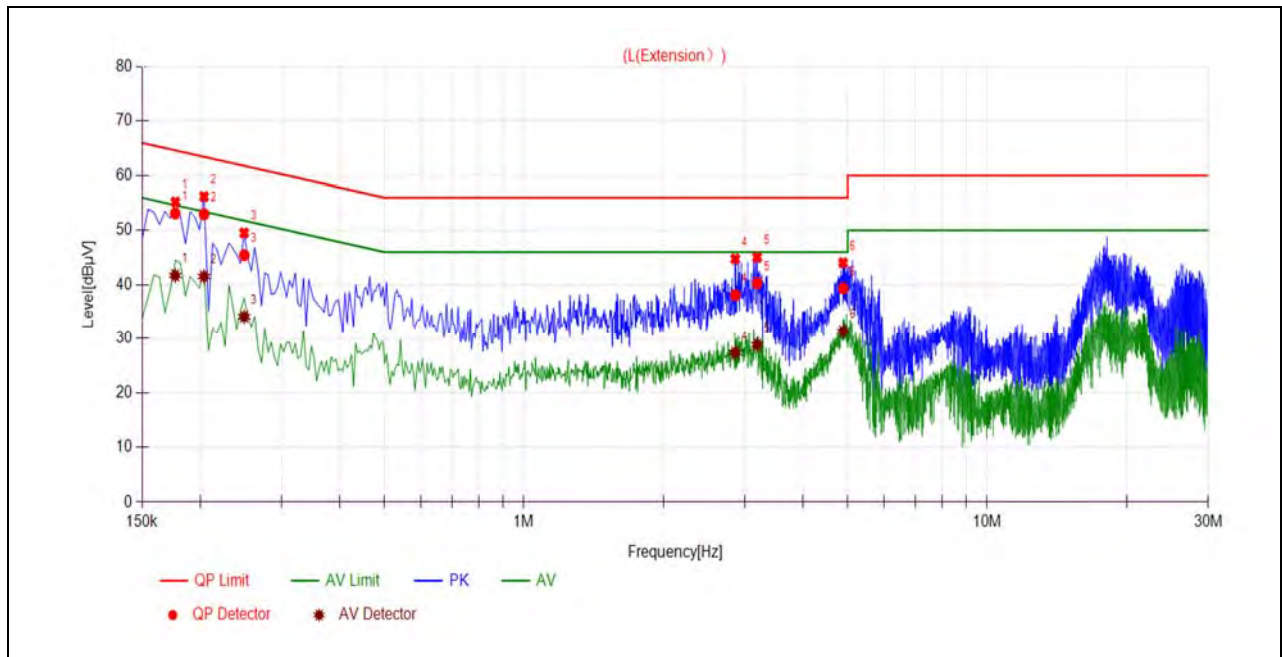
The measurement results are obtained as below:

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

U_R : Receiver Reading

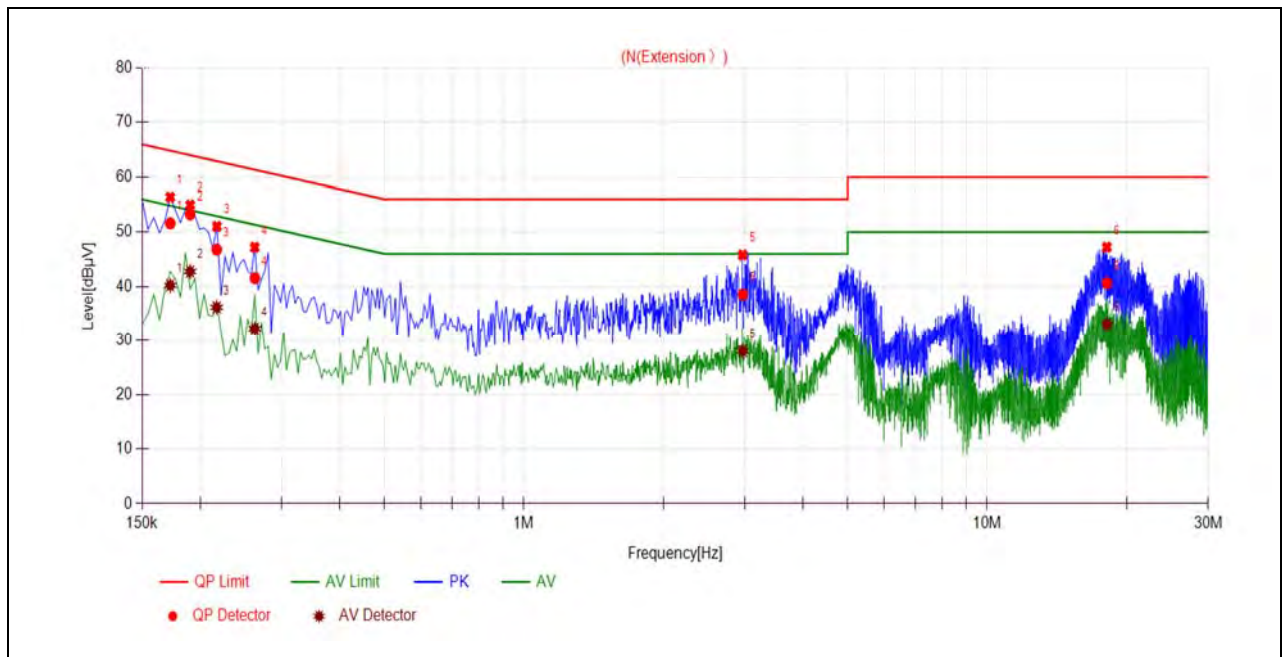
A_{Factor} : Voltage division factor of LISN

B. Test Plot:



(L Phase)

No.	Fre. (MHz)	Emission Level (dBμV)		Limit (dBμV)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.1768	53.12	41.71	64.63	54.63	Line	PASS
2	0.2040	52.97	41.53	63.44	53.44		PASS
3	0.2491	45.44	34.10	61.79	51.79		PASS
4	2.8601	38.10	27.36	56.00	46.00		PASS
5	3.1888	40.30	28.80	56.00	46.00		PASS
6	4.8901	39.36	31.39	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	0.1725	51.60	40.24	64.84	54.84	Neutral	PASS
2	0.1904	53.25	42.78	64.02	54.02		PASS
3	0.2173	46.81	36.19	62.92	52.92		PASS
4	0.2627	41.56	32.24	61.34	51.34		PASS
5	2.9673	38.53	28.02	56.00	46.00		PASS
6	18.1411	40.67	33.07	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:

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

A_T : Total correction Factor except Antenna

U_R : Receiver Reading

G_{preamp} : Preamplifier Gain

A_{Factor} : Antenna Factor at 3m

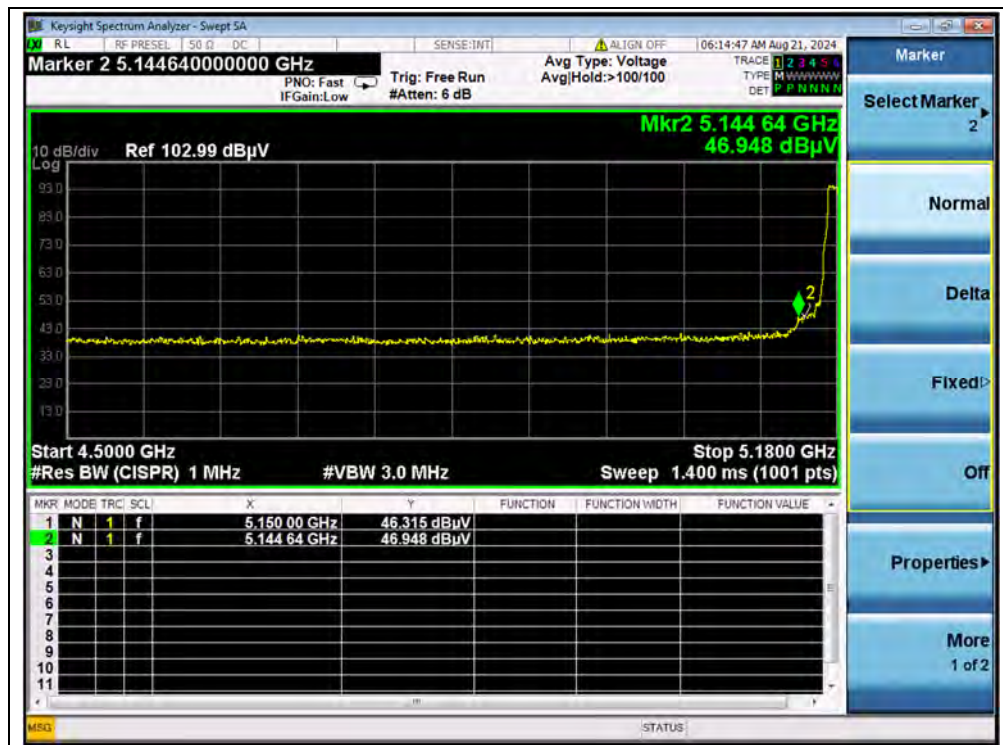
Note 1: Restricted Frequency Bands were performed when antenna was at vertical and horizontal polarity, and only the worse test condition (horizontal) was recorded in this test report.

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.

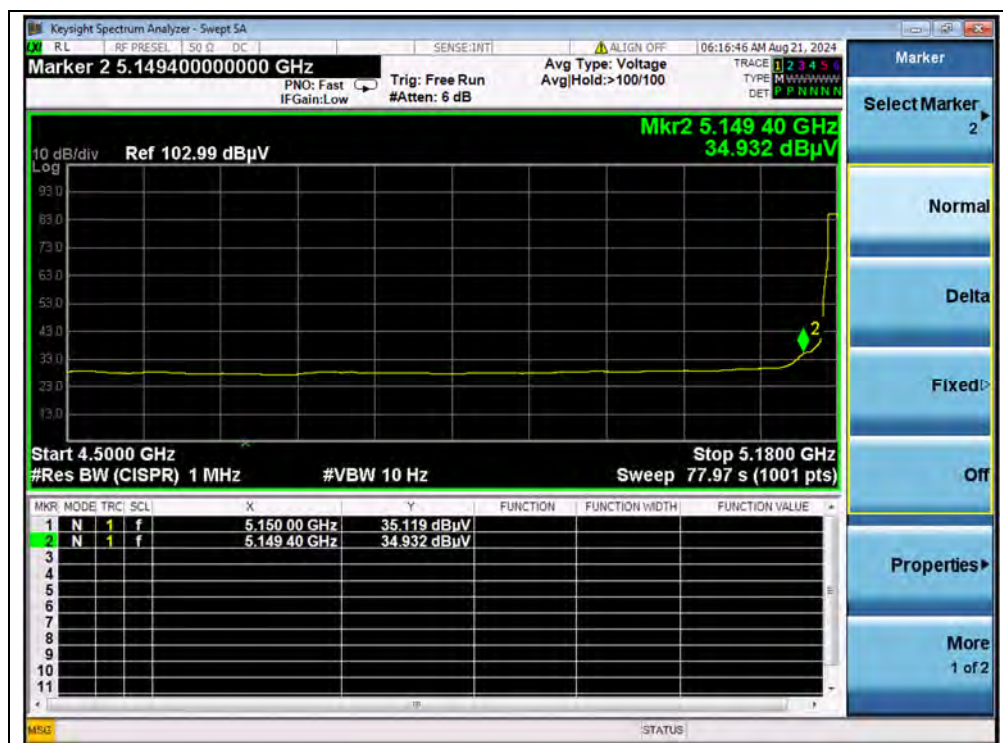
Note 3: All test modes and bandwidth were considered and evaluated respectively by performing full test, only the worst data were recorded for each bandwidth.

802.11a Mode

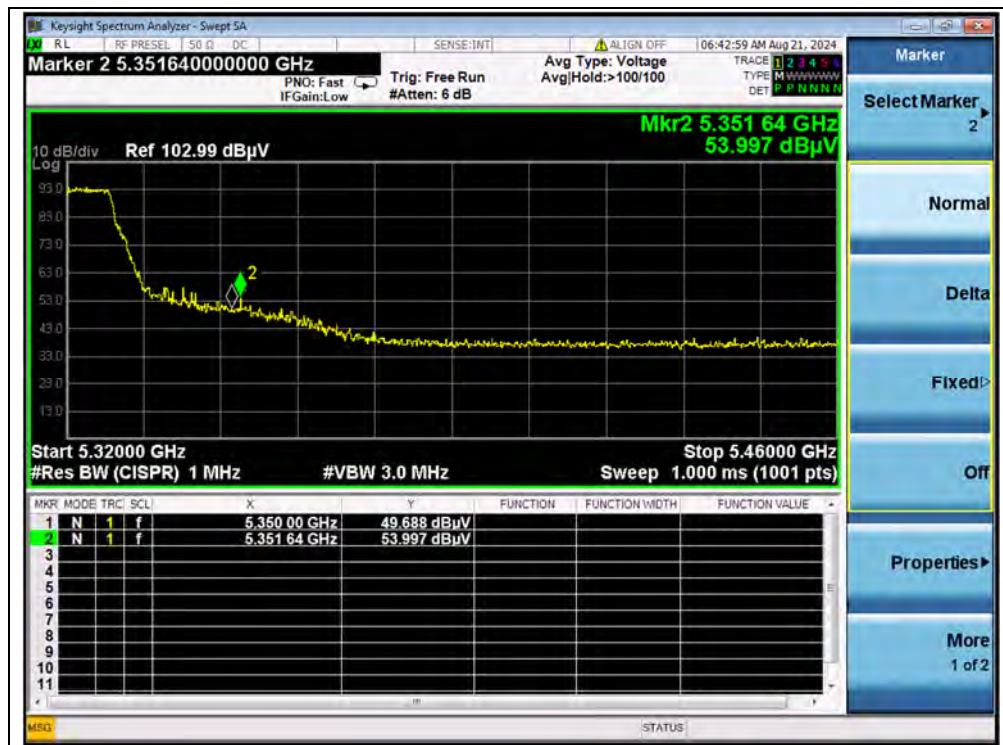
Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dB μ V)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dB μ V/m)	Limit (dB μ V/m)	Verdict
		PK/ AV						
36	5144.64	PK	46.95	-21.29	32.20	57.86	74	PASS
36	5150.00	AV	35.12	-21.29	32.20	46.03	54	PASS
64	5351.64	PK	54.00	-20.66	32.20	65.54	74	PASS
64	5350.00	AV	39.12	-20.66	32.20	50.66	54	PASS
100	5467.50	PK	53.24	-20.24	32.20	65.20	68.23	PASS
100	5460.00	AV	32.14	-20.24	32.20	44.10	54	PASS
144	5731.20	PK	51.20	-20.24	32.20	63.16	68.23	PASS
149	5725.00	PK	50.31	-21.11	32.20	61.40	122.23	PASS
165	5850.00	PK	52.14	-21.11	32.20	63.23	122.23	PASS



(PEAK, Channel 36, 802.11a)



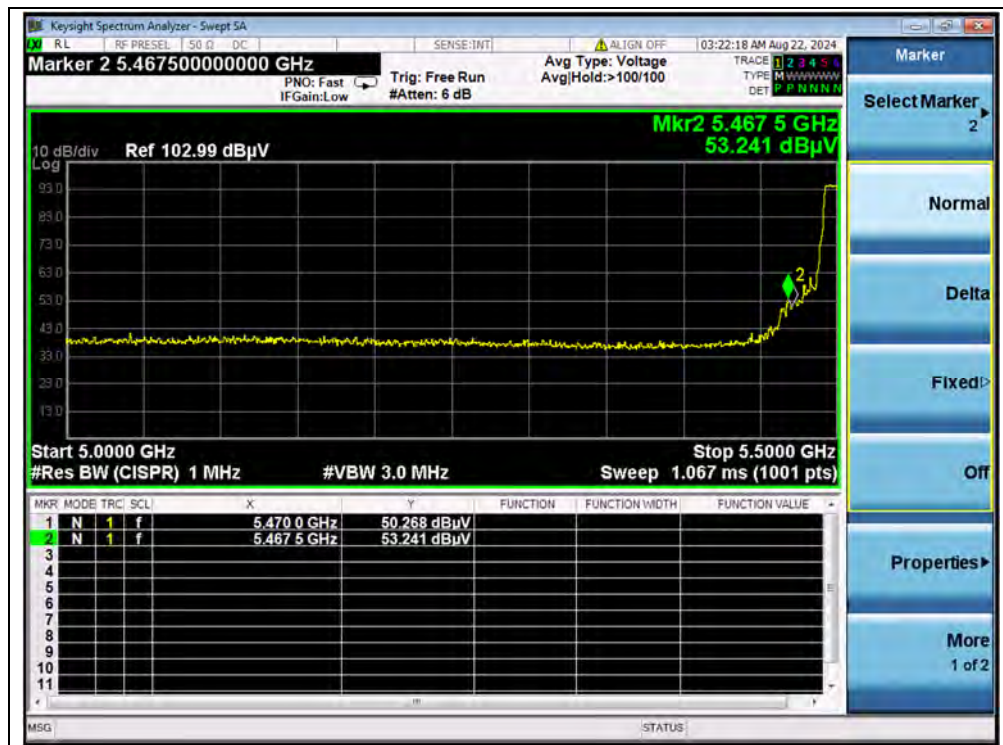
(AVERAGE, Channel 36, 802.11a)



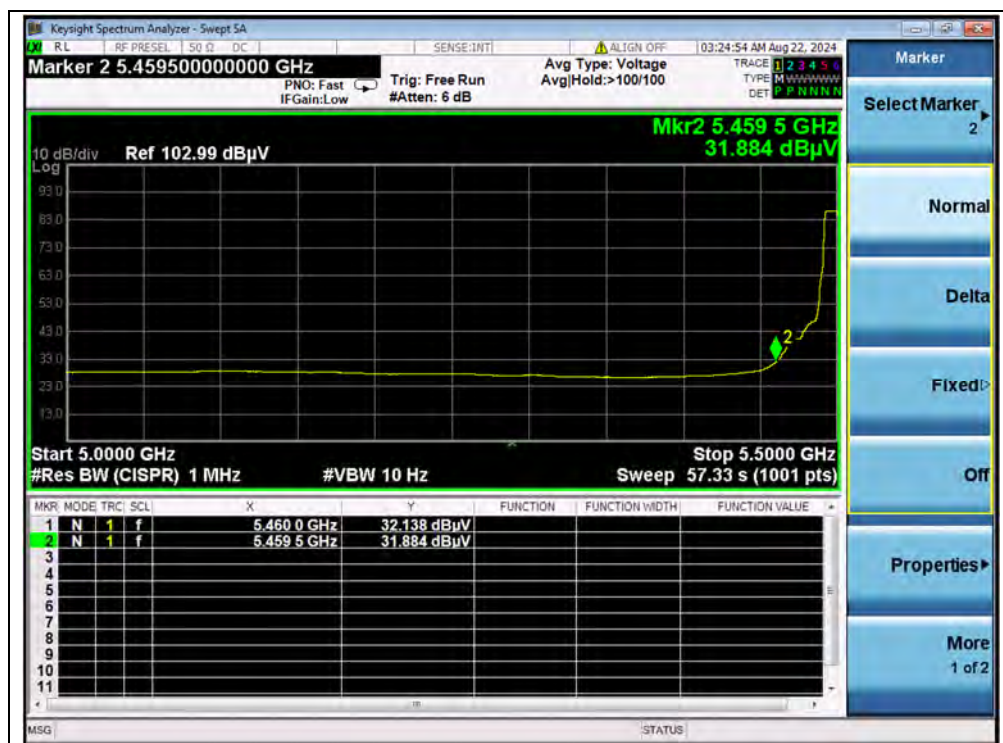
(PEAK, Channel 64, 802.11a)



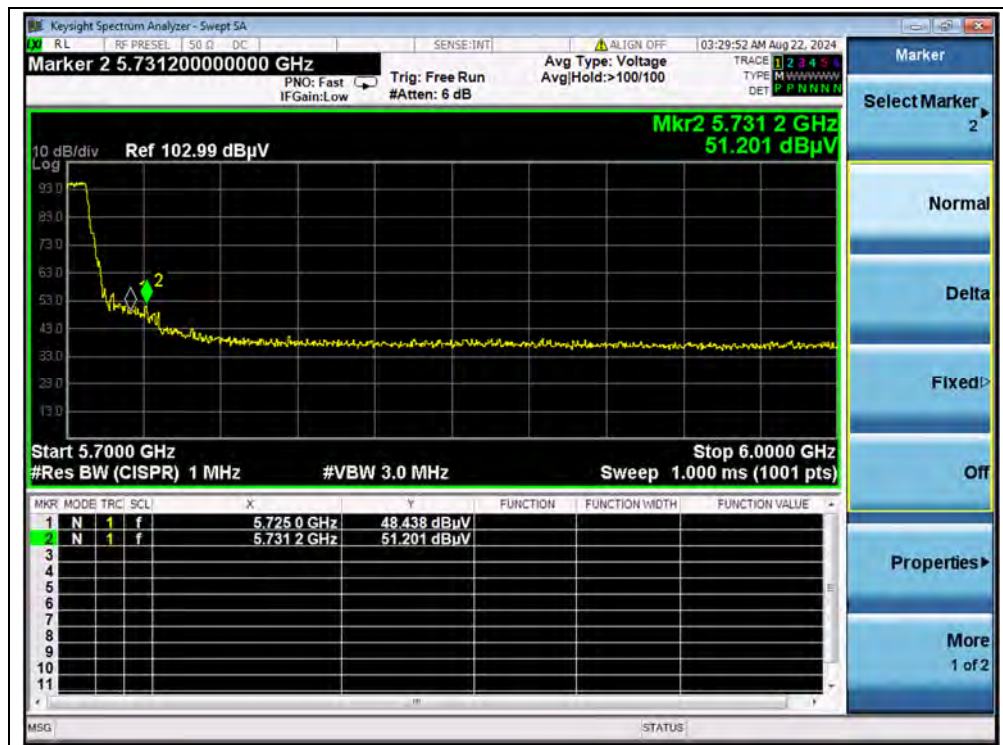
(AVERAGE, Channel 64, 802.11a)



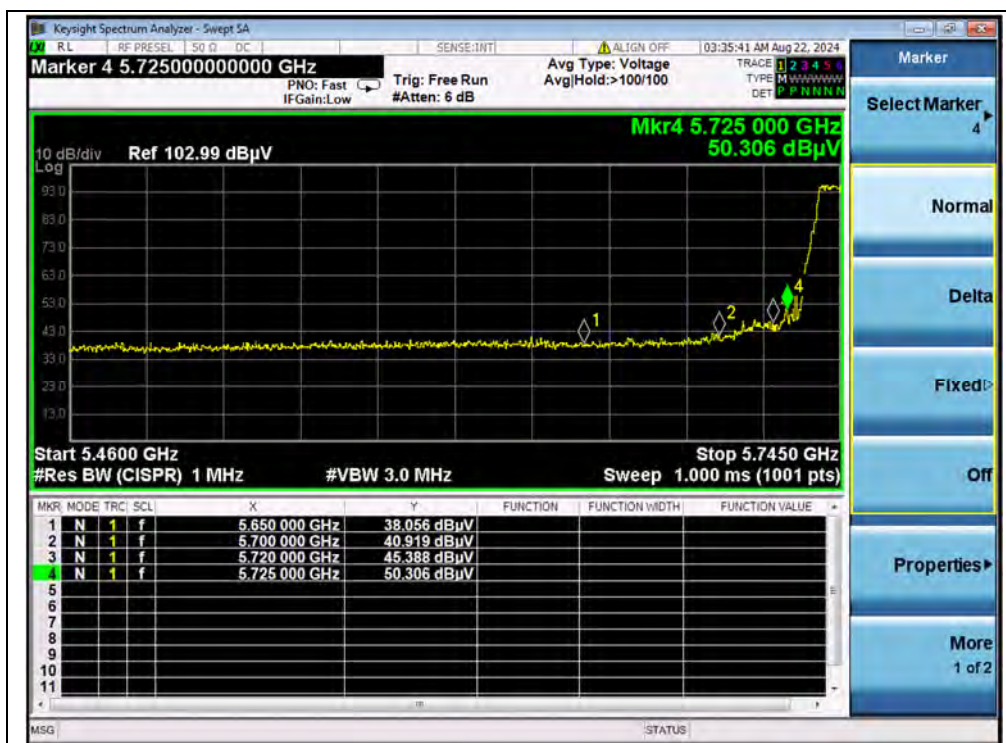
(PEAK, Channel 100, 802.11a)



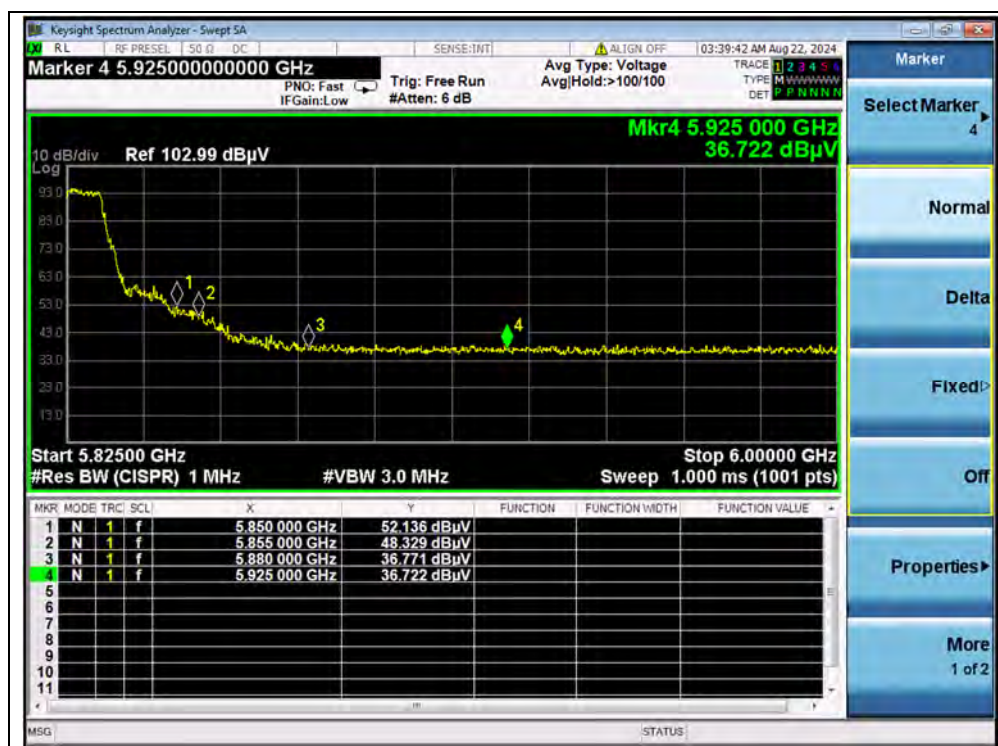
(AVERAGE, Channel 100, 802.11a)



(PEAK, Channel 144, 802.11a)



(PEAK, Channel 149, 802.11a)

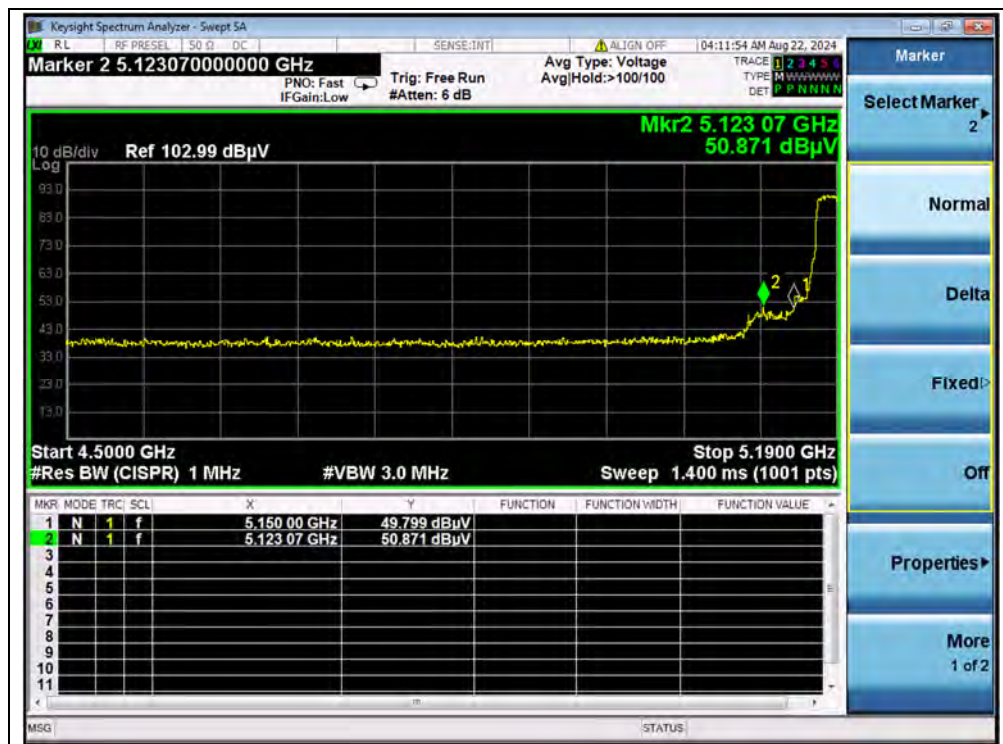


(PEAK, Channel 165, 802.11a)

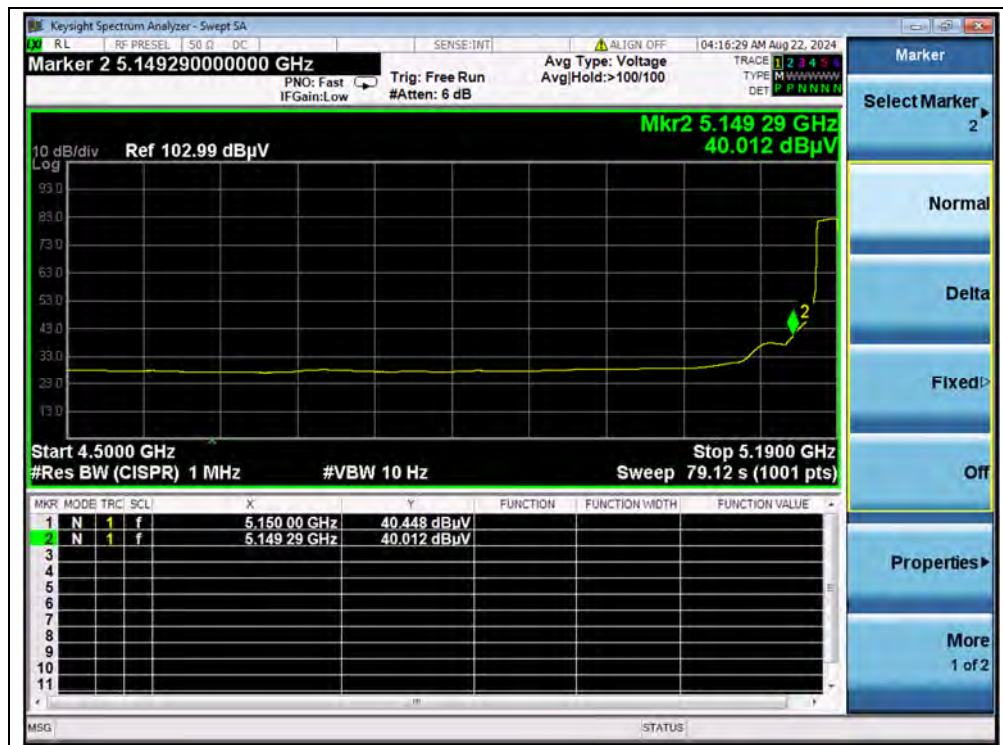


802.11n (HT40) Mode

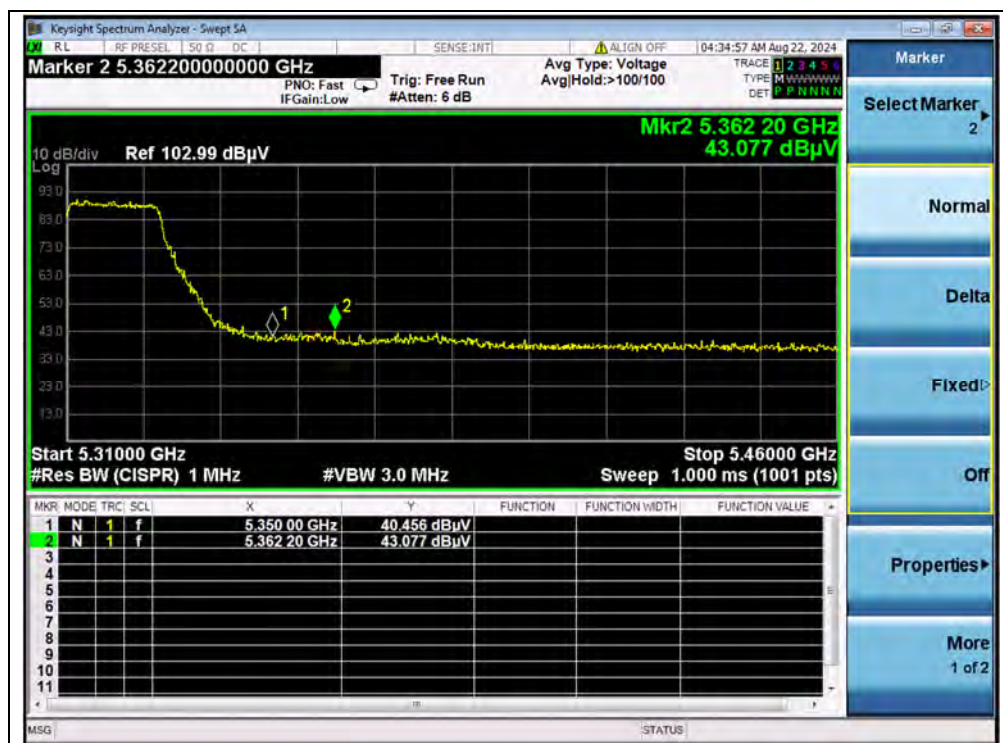
Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dB μ V)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dB μ V/m)	Limit (dB μ V/m)	Verdict
		PK/ AV						
38	5123.07	PK	50.87	-21.29	32.20	61.78	74	PASS
38	5150.00	AV	40.45	-21.29	32.20	51.36	54	PASS
62	5362.20	PK	43.08	-20.66	32.20	54.62	74	PASS
62	5355.00	AV	32.26	-20.66	32.20	43.80	54	PASS
102	5466.14	PK	53.06	-20.24	32.20	65.02	68.23	PASS
102	5460.00	AV	31.68	-20.24	32.20	43.64	54	PASS
142	5725.44	PK	49.07	-20.24	32.20	61.03	68.23	PASS
151	5725.00	PK	47.01	-21.11	32.20	58.10	122.23	PASS
159	5850.00	PK	46.97	-21.11	32.20	58.06	122.23	PASS



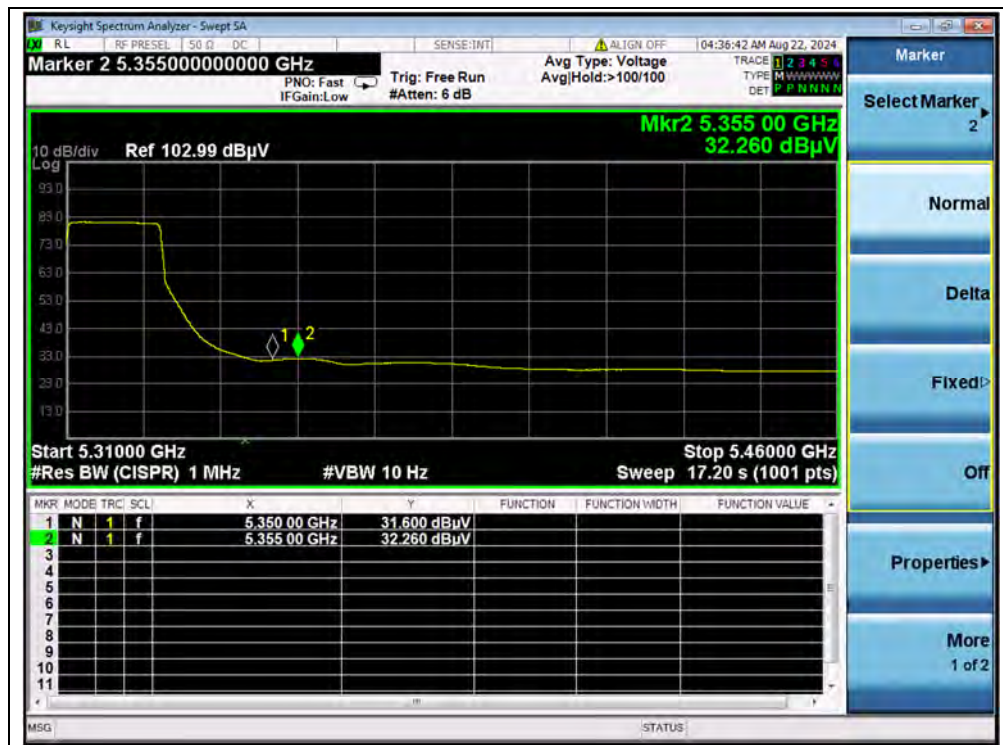
(PEAK, Channel 38, 802.11n (HT40))



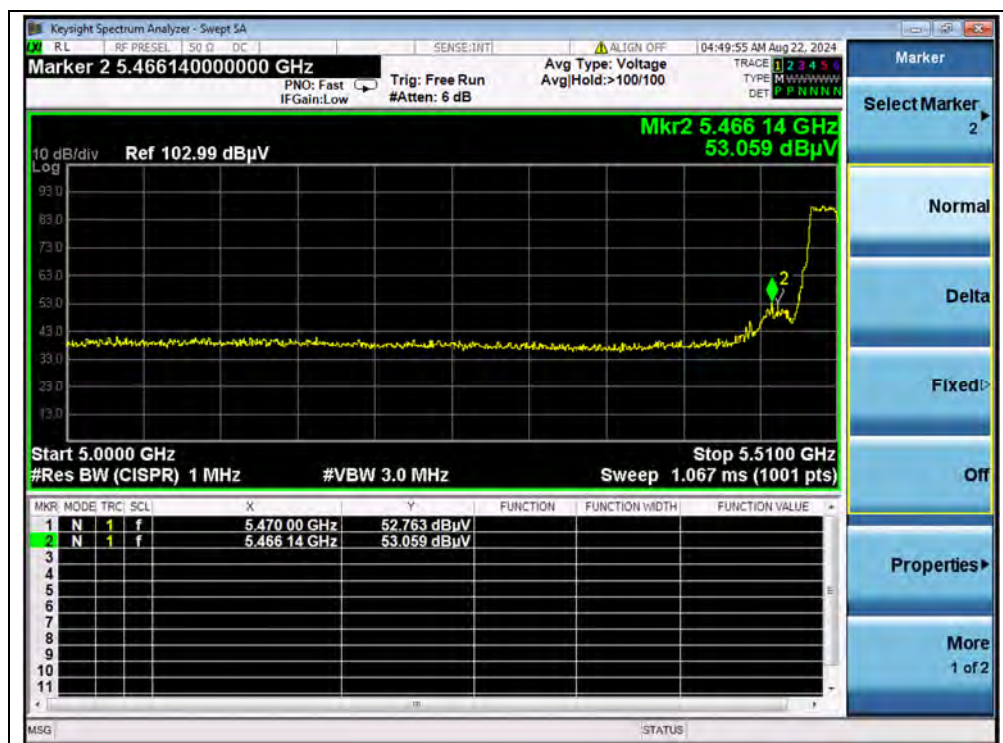
(AVERAGE, Channel 38, 802.11n (HT40))



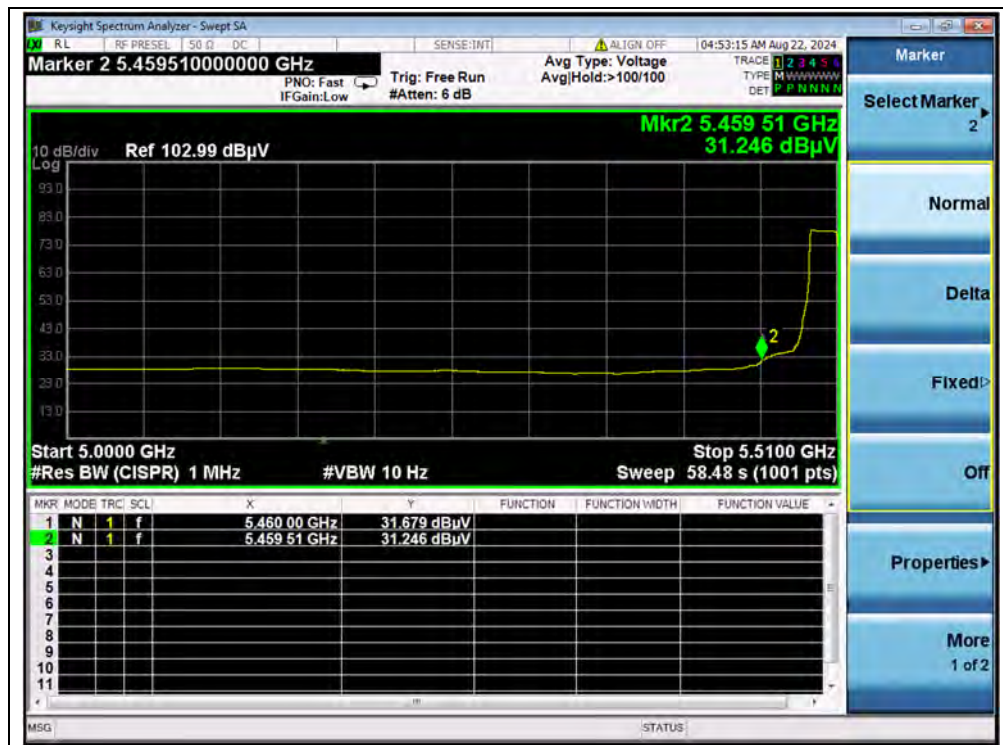
(PEAK, Channel 62, 802.11n (HT40))



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



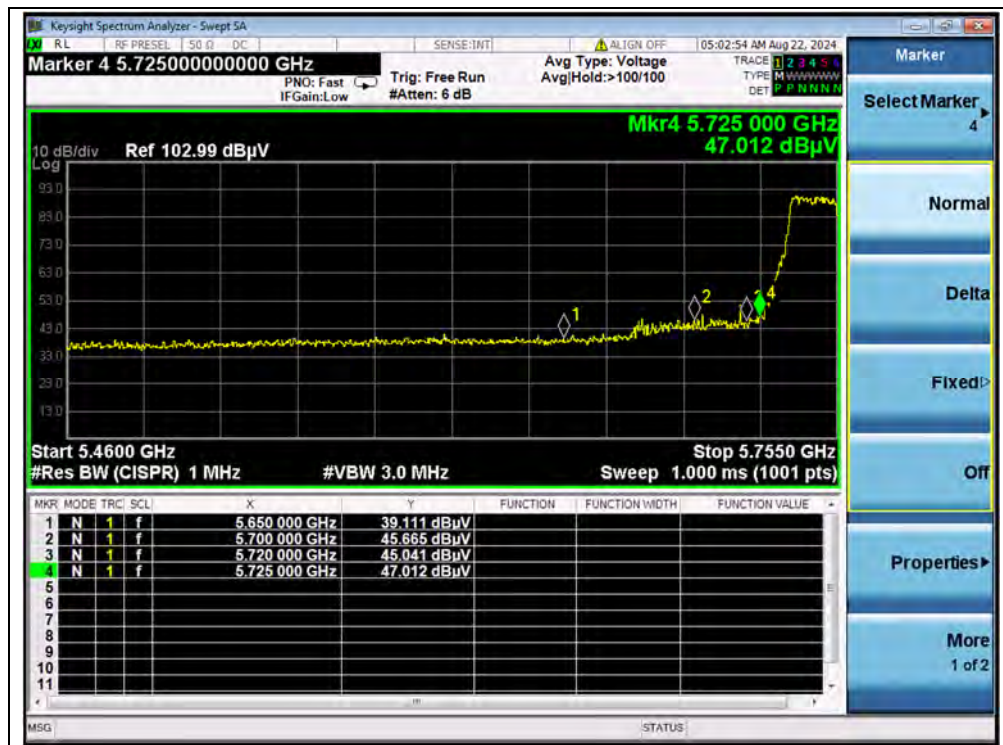
(PEAK, Channel 102, 802.11n (HT40))



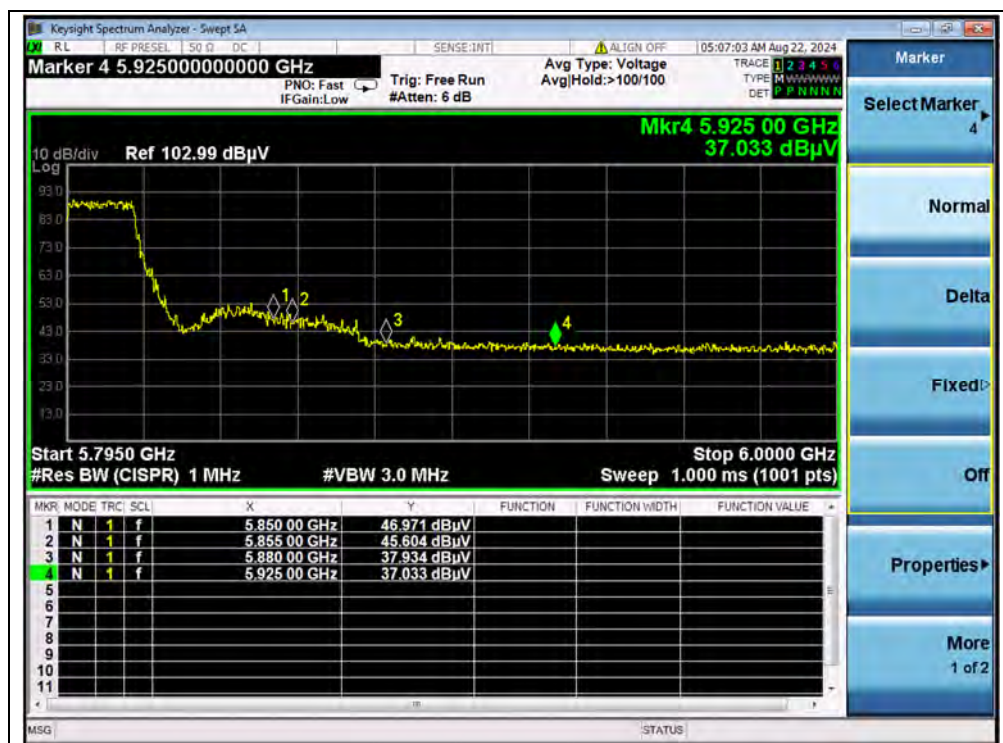
(AVERAGE, Channel 102, 802.11n (HT40))



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



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

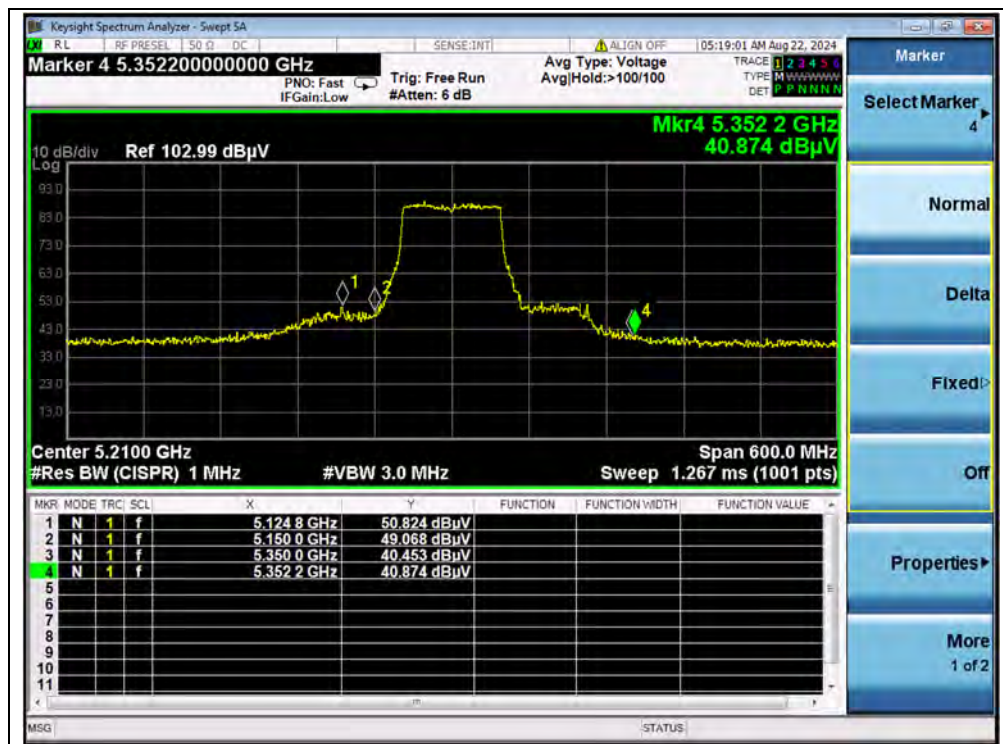


(PEAK, Channel 159, 802.11n (HT40))

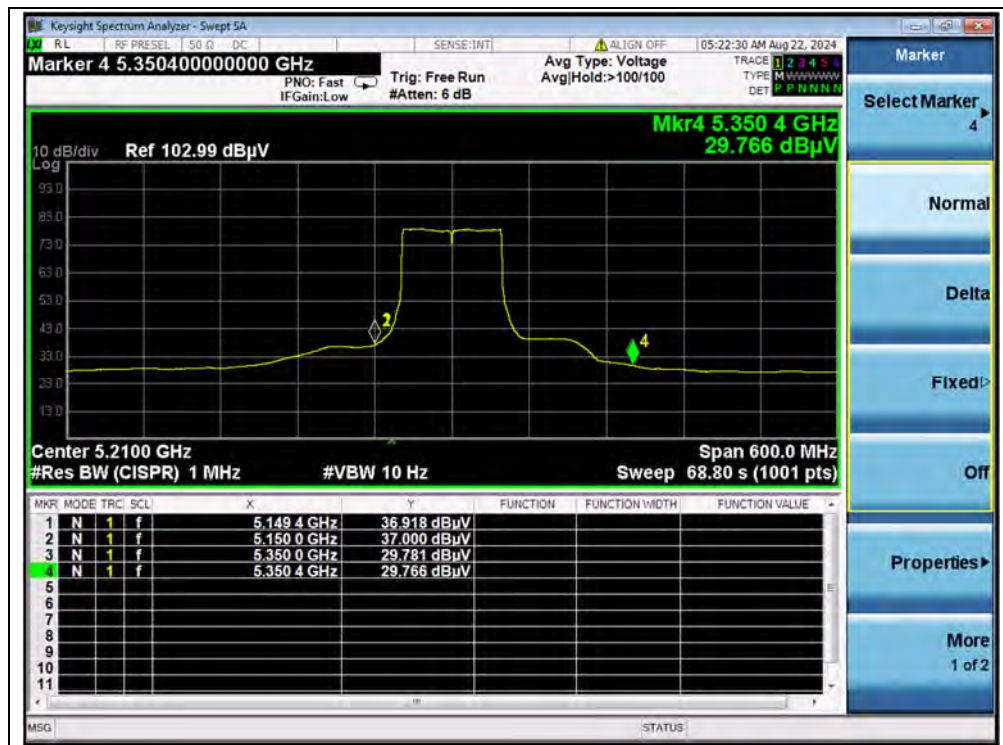


802.11ac (VHT80) Mode

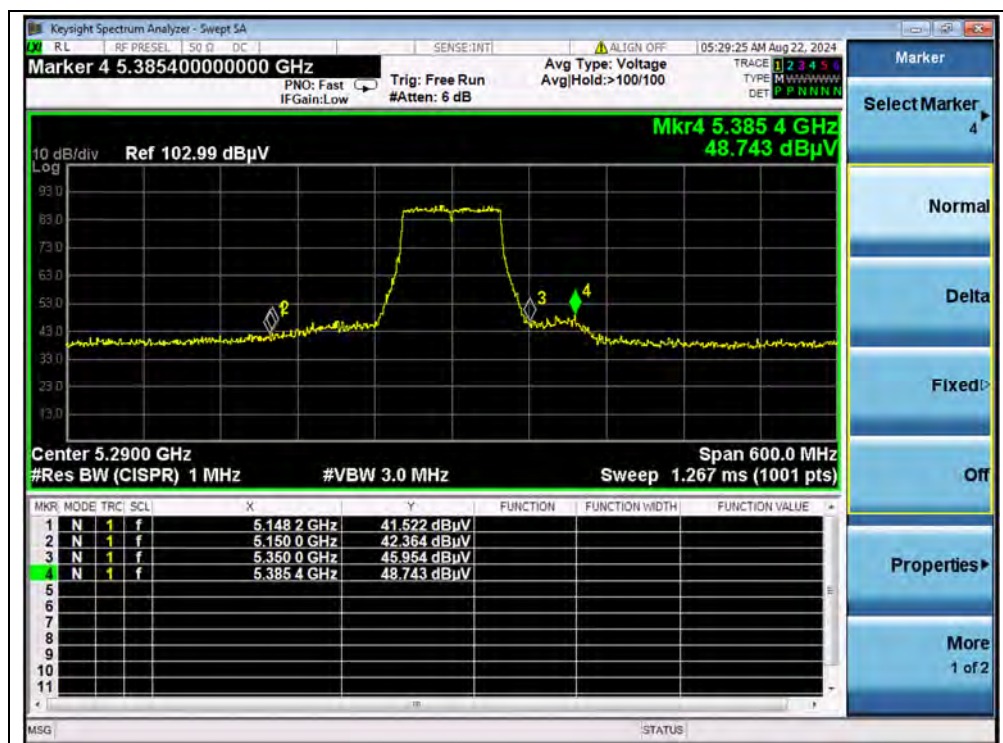
Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dBμV)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dBμV/m)	Limit (dBμV/m)	Verdict
		PK/ AV						
42	5124.80	PK	50.82	-21.29	32.20	61.73	74	PASS
42	5149.40	AV	36.92	-21.29	32.20	47.83	54	PASS
58	5385.40	PK	48.74	-20.66	32.20	60.28	74	PASS
58	5377.60	AV	35.56	-20.66	32.20	47.10	54	PASS
106	5435.66	PK	52.17	-20.24	32.20	64.13	74	PASS
106	5445.20	AV	38.07	-20.24	32.20	50.03	54	PASS
138	5727.39	PK	43.53	-20.24	32.20	55.49	68.23	PASS
155	5725.00	PK	53.44	-21.11	32.20	64.53	122.23	PASS
155	5855.00	PK	49.95	-21.11	32.20	61.04	110.83	PASS



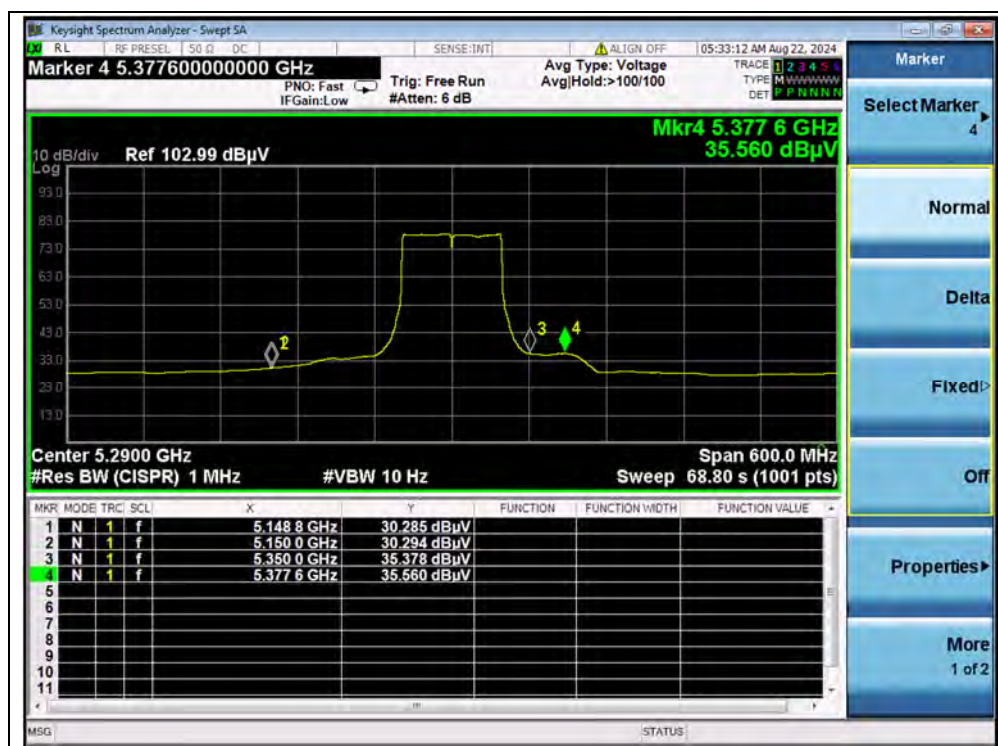
(PEAK, Channel 42, 802.11ac (VHT80))



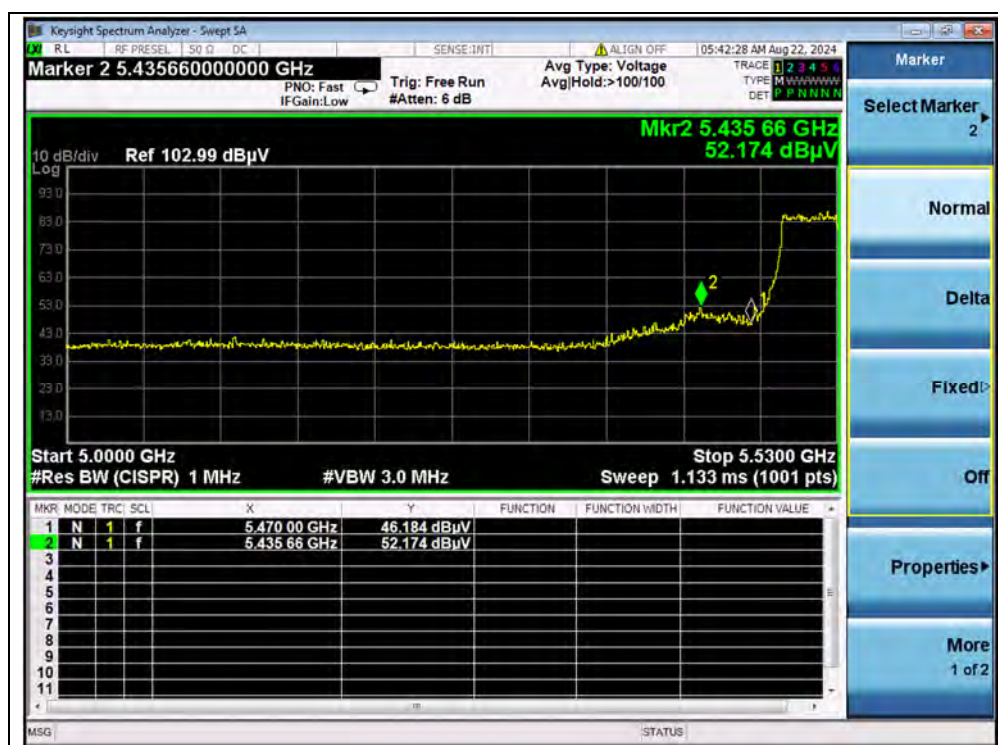
(AVERAGE, Channel 42, 802.11ac (VHT80))



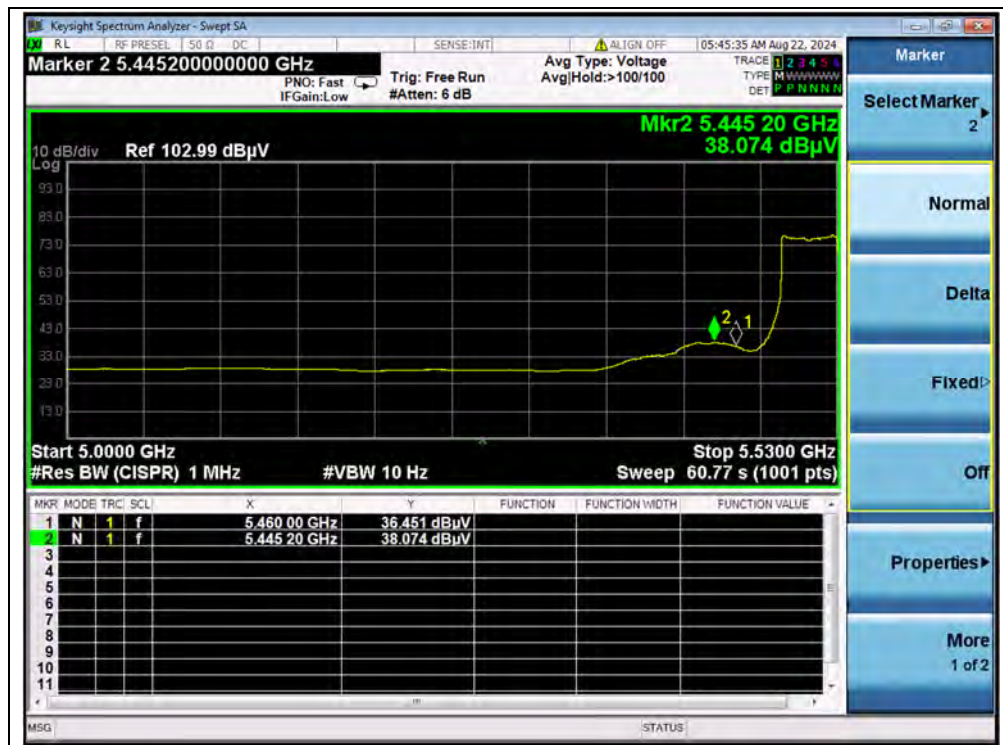
(PEAK, Channel 58, 802.11ac (VHT80))



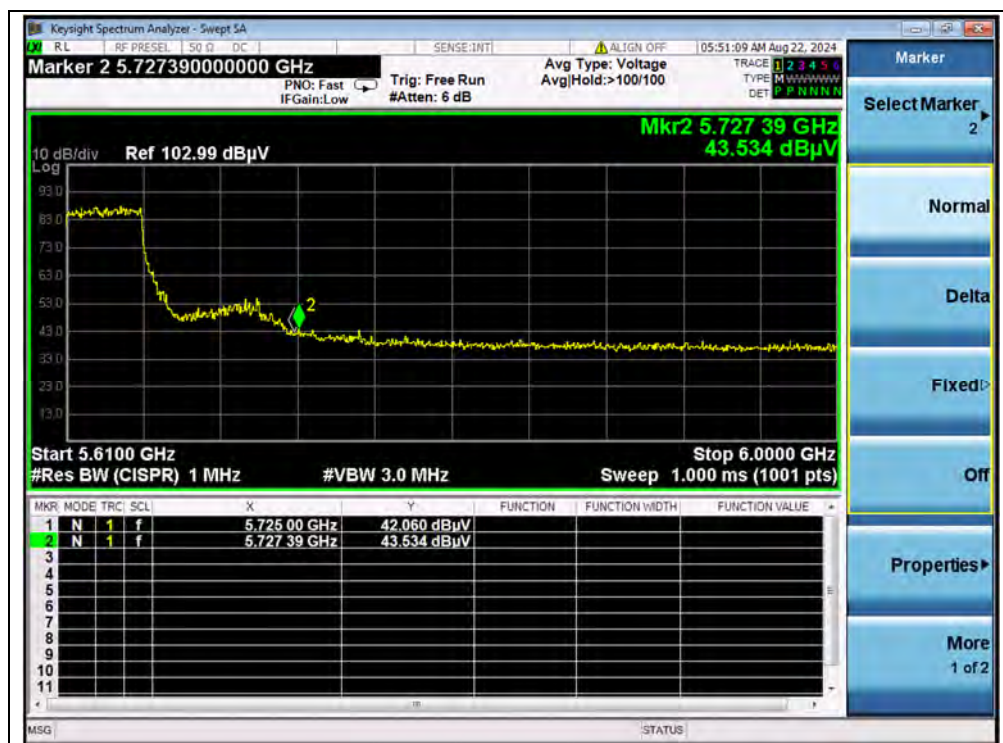
(AVERAGE, Channel 58, 802.11ac (VHT80))



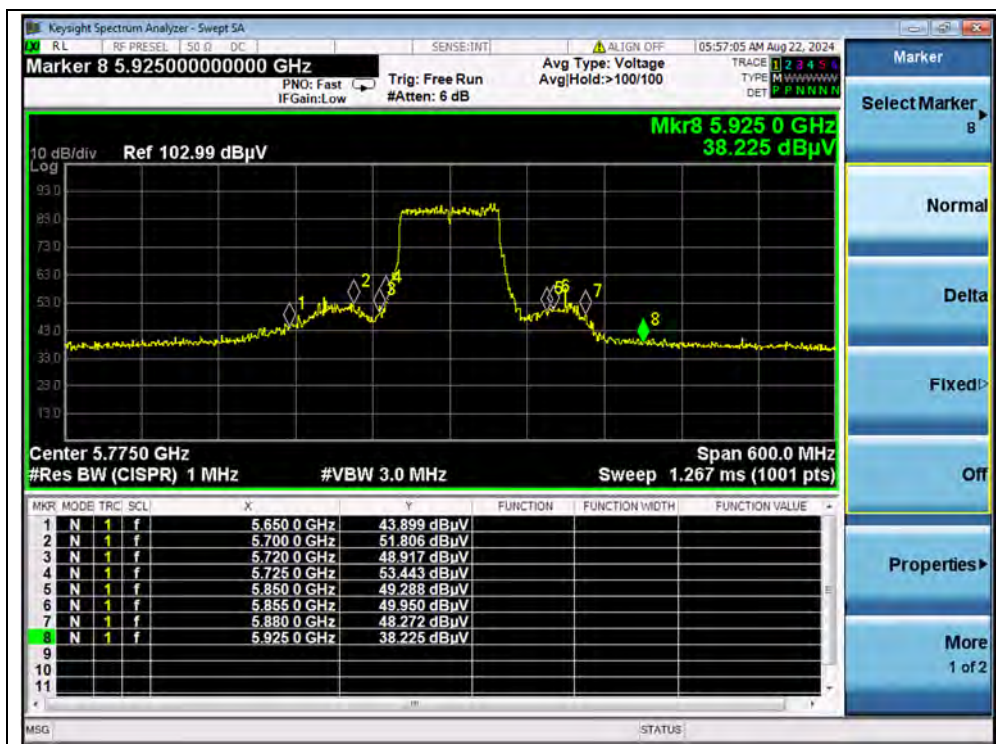
(PEAK, Channel 106, 802.11ac (VHT80))



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



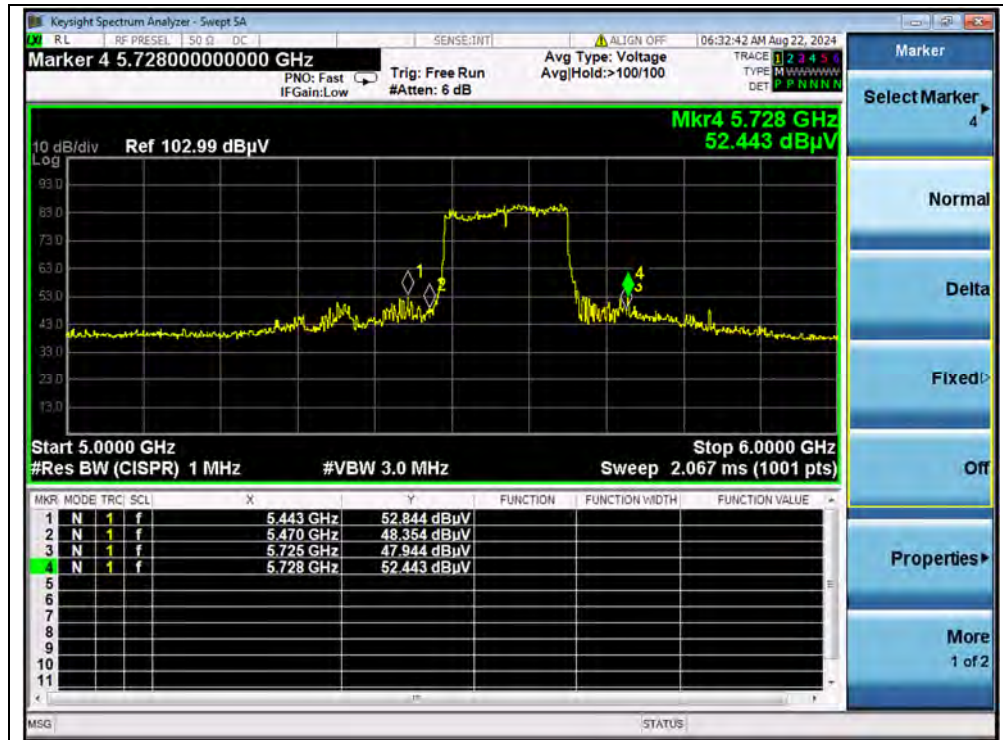
(PEAK, Channel 138, 802.11ac (VHT80))



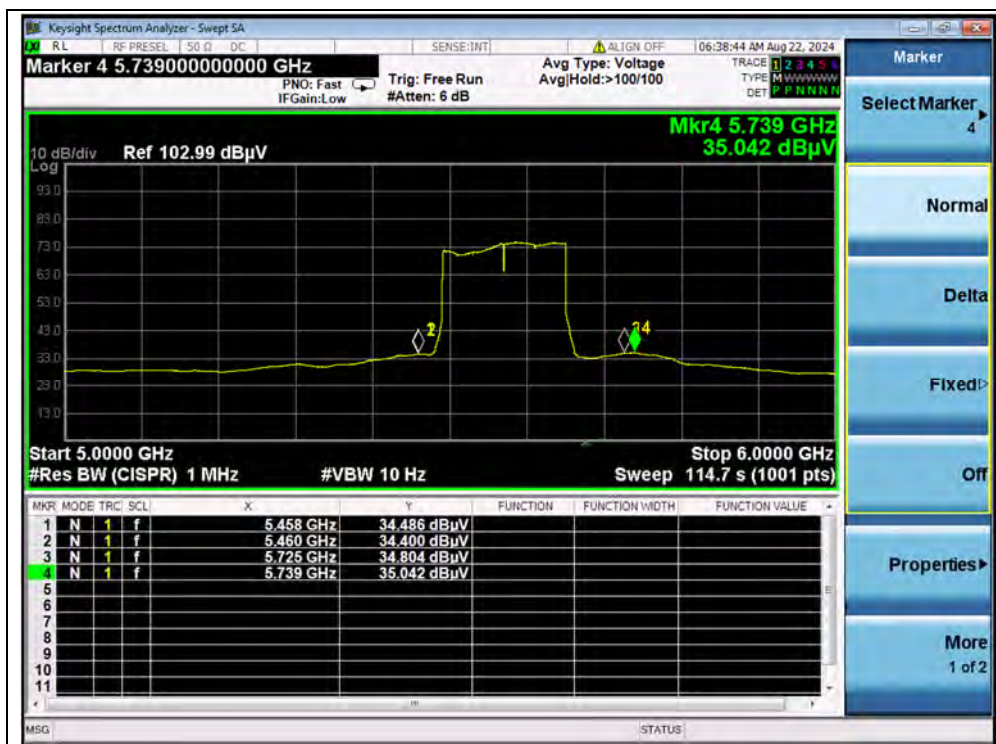
(PEAK, Channel 155, 802.11ac (VHT80))

**802.11be (EHT160) Mode****A.Test Verdict:**

Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dB μ V)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dB μ V/m)	Limit (dB μ V/m)	Verdict
		PK/ AV						
114	5443.00	PK	52.84	-20.24	32.20	64.80	74	PASS
114	5458.00	AV	34.49	-20.24	32.20	46.45	54	PASS
114	5728.00	PK	52.44	-20.24	32.20	64.40	68.23	PASS
114	5739.00	AV	35.04	-20.24	32.20	47.00	54	PASS

B.Test Plot:

(PEAK, Channel 114, 802.11be (EHT160))



(AVERAGE, Channel 114, 802.11be (EHT160))



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:

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

A_T : Total correction Factor except Antenna

U_R : Receiver Reading

G_{preamp} : Preamplifier Gain

A_{Factor} : Antenna Factor at 3m

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.

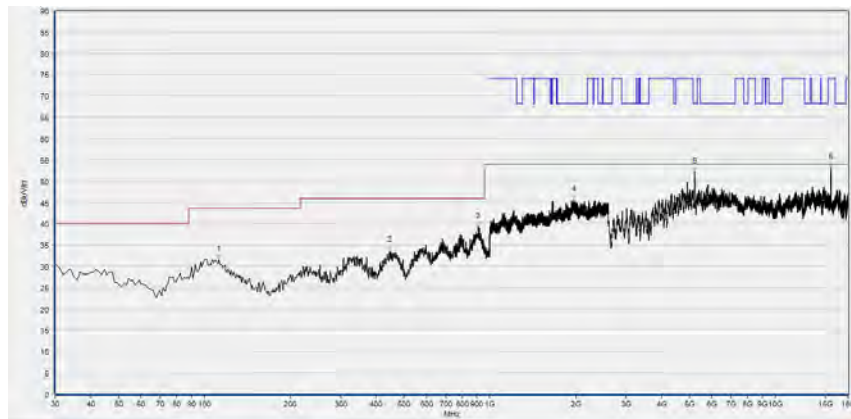
Note2: For the frequency, which started from 9kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit was not recorded.

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

Note4: All test modes and bandwidth were considered and evaluated respectively by performing full test, only the worst data were recorded for each bandwidth.

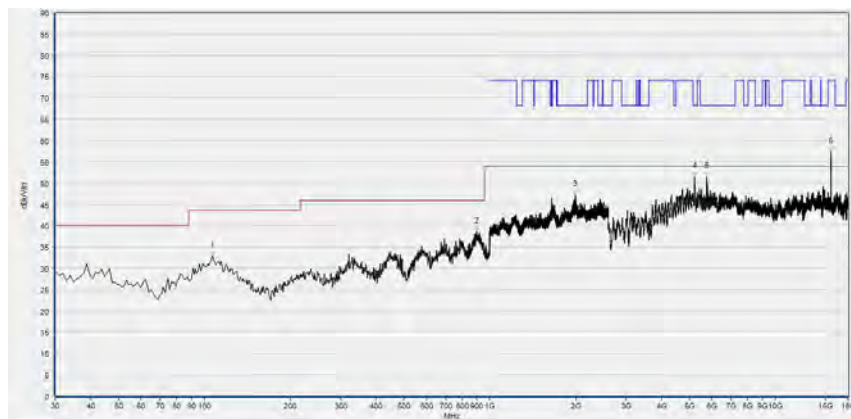
**802.11a Mode**

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
112.450	31.48	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
446.130	33.73	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
911.730	39.37	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1965.333	45.52	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5221.080	52.19	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
15659.200	53.20	N/A	42.14	74.00	N/A	54.00	Horizontal	PASS

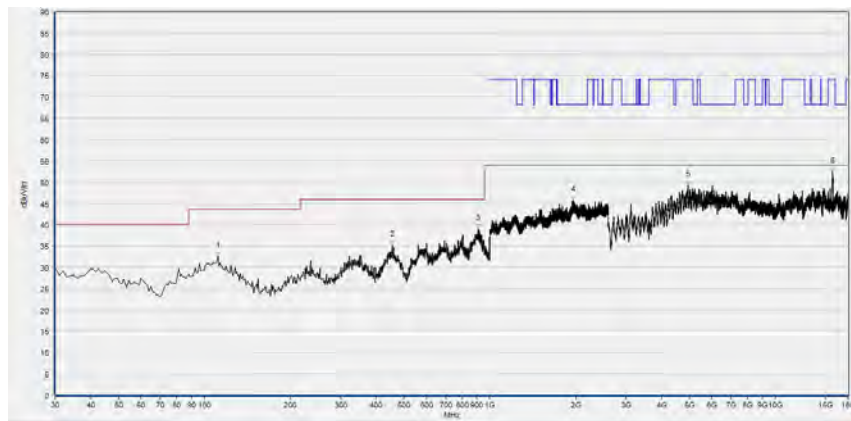
(Antenna Horizontal, 30MHz to 18GHz)



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	32.81	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
897.180	38.53	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1996.800	47.27	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5224.160	51.41	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5741.600	51.41	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
15665.360	57.32	N/A	46.54	74.00	N/A	54.00	Vertical	PASS

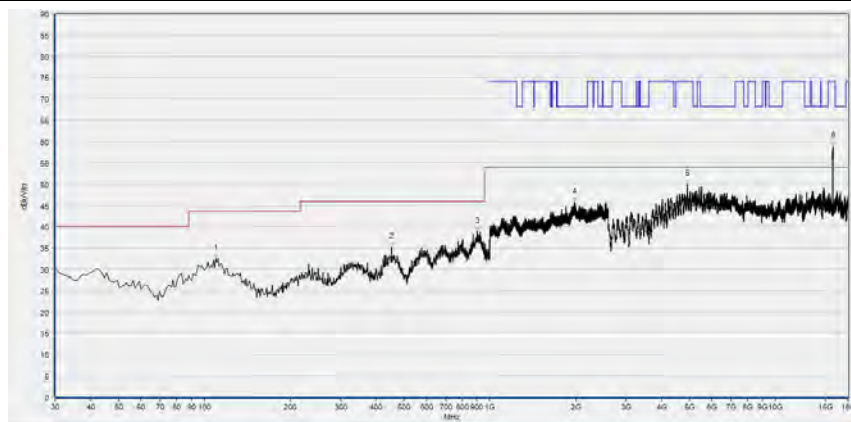
(Antenna Vertical, 30MHz to 18GHz)

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
111.480	32.57	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
454.860	35.26	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
910.760	39.00	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1961.600	45.77	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
4937.720	49.20	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
15899.440	52.43	N/A	42.35	74.00	N/A	54.00	Horizontal	PASS

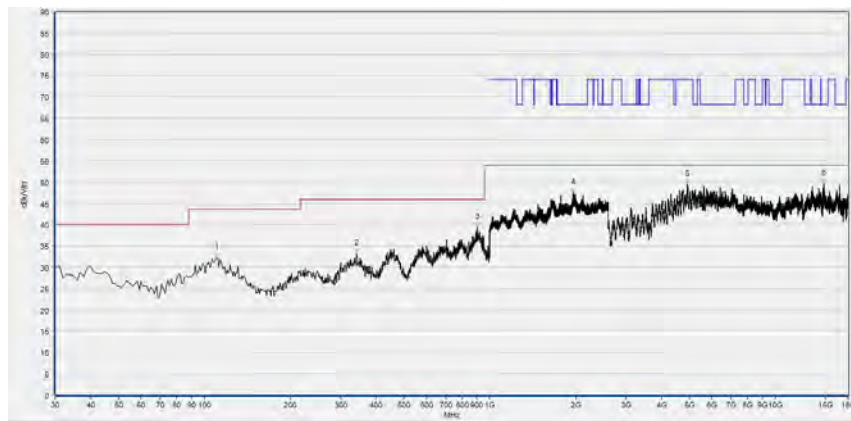
(Antenna Horizontal, 30MHz to 18GHz)



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	32.46	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
452.920	35.23	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
905.910	38.85	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1977.600	45.72	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
4925.400	49.92	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
15905.600	58.74	N/A	47.46	74.00	N/A	54.00	Vertical	PASS

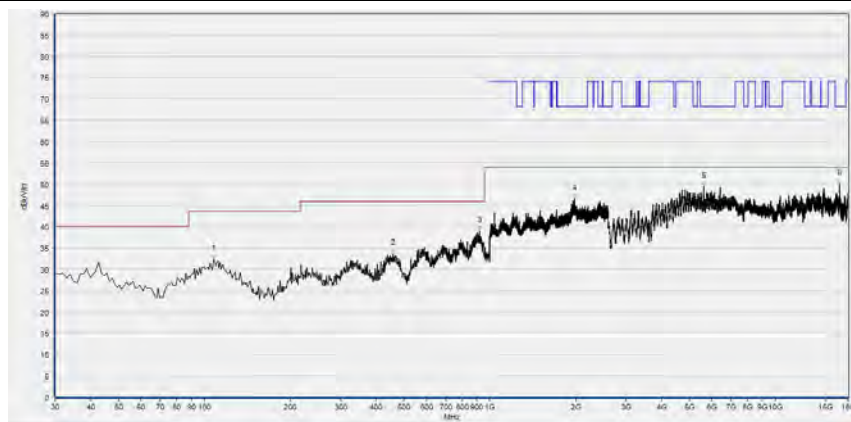
(Antenna Vertical, 30MHz to 18GHz)

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
110.510	32.18	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
342.340	33.17	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
903.000	39.32	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1954.133	47.48	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
4913.080	49.49	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
14821.440	49.68	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

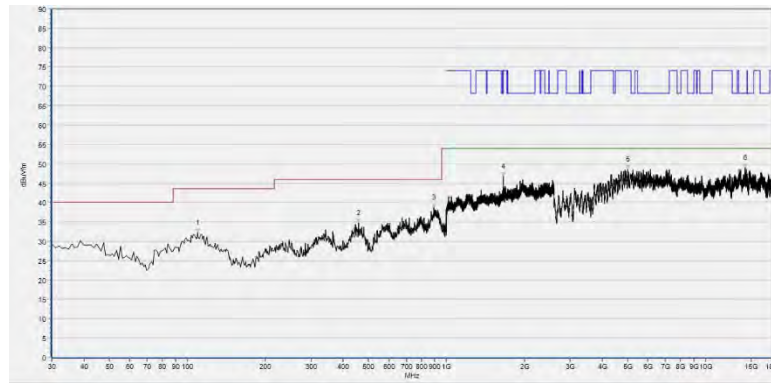


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
107.600	32.30	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
458.740	33.70	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
918.520	39.05	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1979.200	46.61	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5624.560	49.48	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
16811.120	50.14	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	32.11	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
456.800	34.73	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
893.300	38.67	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1659.200	46.71	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5014.720	48.64	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
14227.000	48.99	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	32.72	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
338.460	33.68	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
918.520	38.62	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1960.000	45.69	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
6018.800	48.86	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
16463.080	48.53	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

END OF REPORT