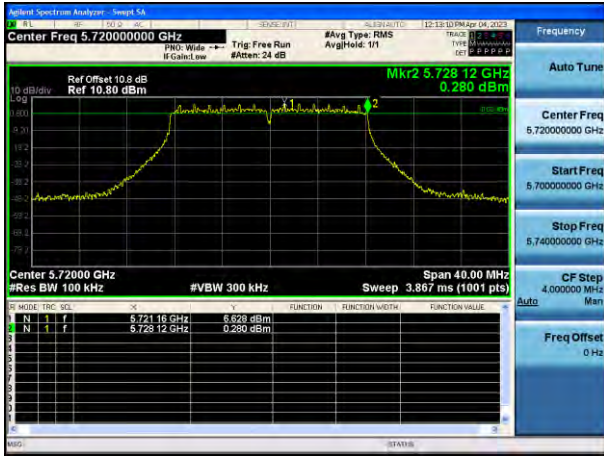


[Ant.1]

☐ Test Plots(UNII 3 Band 6 dB Bandwidth)

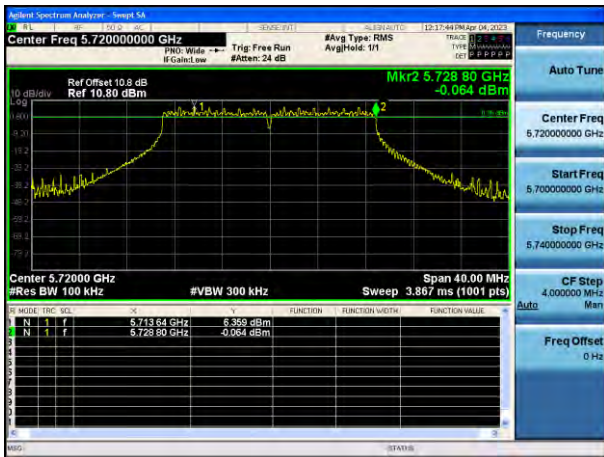
802.11a CH.144



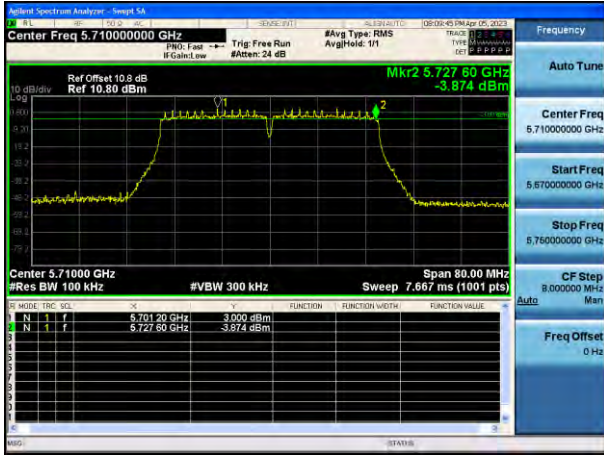
802.11n_HT20 CH.144



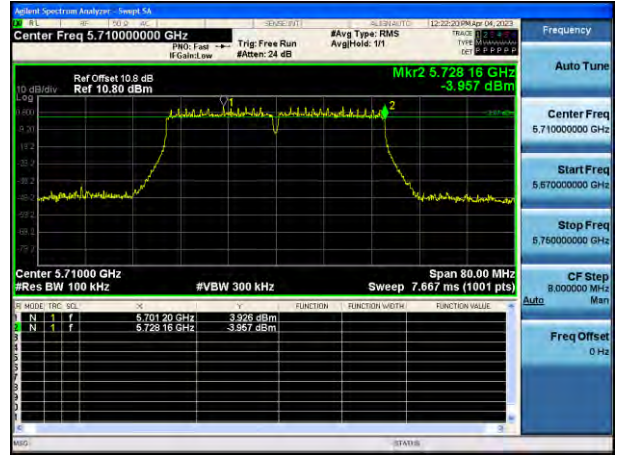
802.11ac_VHT20 CH.144



802.11n_HT40 CH.142



802.11ac_VHT40 CH.142



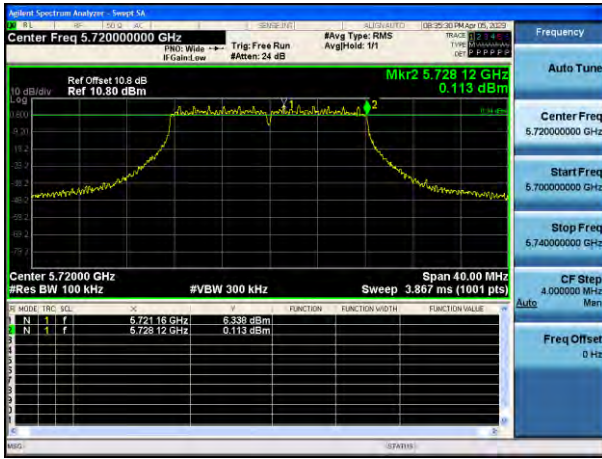
802.11ac_VHT80 CH.138



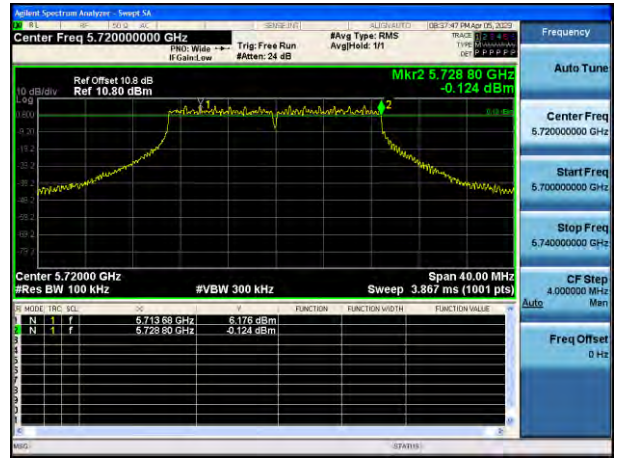
[Ant.2]

☐ Test Plots(UNII 3 Band 6 dB Bandwidth)

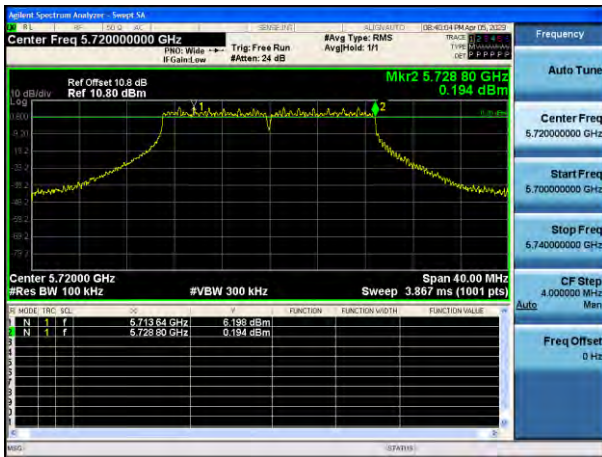
802.11a CH.144



802.11n_HT20 CH.144



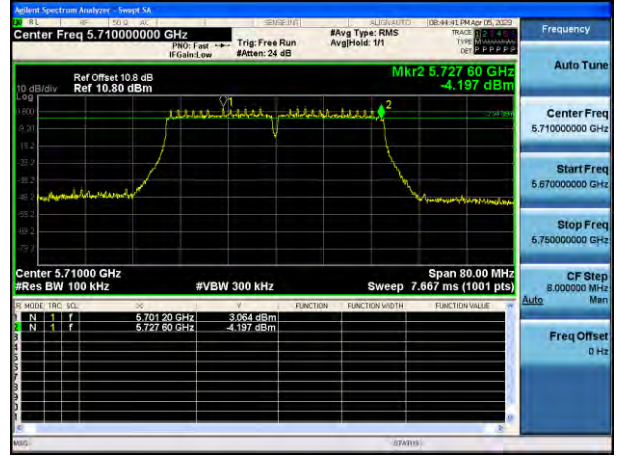
802.11ac_VHT20 CH.144



802.11n_HT40 CH.142



802.11ac_VHT40 CH.142



802.11ac_VHT80 CH.138



10.7.3 Output Power

[Ant.1]

Mode	Frequency [MHz]	Channel	Measured Power [dBm]	Duty Cycle Factor [dB]	Total Power [dBm]	Limit [dBm]	Worstcase Datarate
802.11a	5720	144	16.08	0.755	16.84	22.63	18 Mbps
802.11n(HT20)	(UNII 2C		15.13	1.416	16.55	23.05	MCS4
802.11ac(VHT20)	Band)		15.18	1.436	16.61	23.06	MCS4
802.11a	5720	144	9.53	0.755	10.29	30.00	18 Mbps
802.11n(HT20)	(UNII 3		9.66	1.416	11.08	30.00	MCS4
802.11ac(VHT20)	Band)		9.67	1.436	11.11	30.00	MCS4

Mode	Frequency [MHz]	Channel	Measured Power [dBm]	Duty Cycle Factor [dB]	Total Power [dBm]	Limit [dBm]	Worstcase Datarate
802.11n(HT40)	5710	142	15.89	0.644	16.54	23.98	MCS0
802.11ac(VHT40)	(UNII 2C Band)		15.98	0.621	16.60	23.98	MCS0
802.11n(HT40)	5710	142	4.81	0.644	5.45	30.00	MCS0
802.11ac(VHT40)	(UNII 3 Band)		5.00	0.621	5.62	30.00	MCS0

Mode	Frequency [MHz]	Channel	Measured Power [dBm]	Duty Cycle Factor [dB]	Total Power [dBm]	Limit [dBm]	Worstcase Datarate
802.11ac(VHT80)	5690 (UNII 2C Band)	138	10.27	6.832	17.10	23.98	MCS6
	5690 (UNII 3 Band)	138	-3.08	6.832	3.75	30.00	MCS6

[Ant.2]

Mode	Frequency [MHz]	Channel	Measured Power [dBm]	Duty Cycle Factor [dB]	Total Power [dBm]	Limit [dBm]	Worstcase Datarate
802.11a	5720	144	15.86	0.755	16.62	22.66	18 Mbps
802.11n(HT20)	(UNII 2C		14.90	1.416	16.32	22.98	MCS4
802.11ac(VHT20)	Band)		14.95	1.436	16.38	23.11	MCS4
802.11a	5720	144	9.34	0.755	10.10	30.00	18 Mbps
802.11n(HT20)	(UNII 3		9.39	1.416	10.81	30.00	MCS4
802.11ac(VHT20)	Band)		9.42	1.436	10.86	30.00	MCS4

Mode	Frequency [MHz]	Channel	Measured Power [dBm]	Duty Cycle Factor [dB]	Total Power [dBm]	Limit [dBm]	Worstcase Datarate
802.11n(HT40)	5710	142	15.86	0.644	16.51	23.98	MCS0
802.11ac(VHT40)	(UNII 2C Band)		15.82	0.621	16.44	23.98	MCS0
802.11n(HT40)	5710	142	4.79	0.644	5.43	30.00	MCS0
802.11ac(VHT40)	(UNII 3 Band)		4.79	0.621	5.41	30.00	MCS0

Mode	Frequency [MHz]	Channel	Measured Power [dBm]	Duty Cycle Factor [dB]	Total Power [dBm]	Limit [dBm]	Worstcase Datarate
802.11ac(VHT80)	5690	138	9.80	6.832	16.64	23.98	MCS6
	(UNII 2C Band)						
	5690	138	-3.51	6.832	3.32	30.00	MCS6
	(UNII 3 Band)						

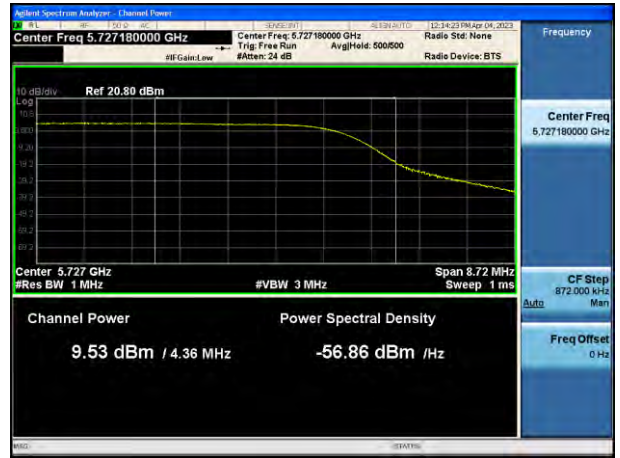
[Ant.1]

☑ Test Plots

802.11a UNII 2C Band



802.11a UNII 3 Band



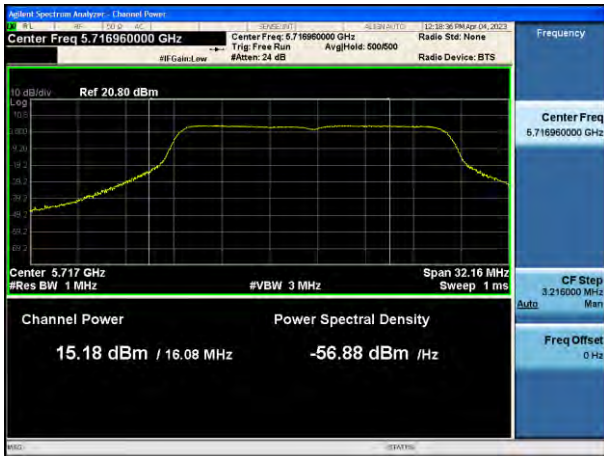
802.11n(HT20) UNII 2C Band



802.11n(HT20) UNII 3 Band



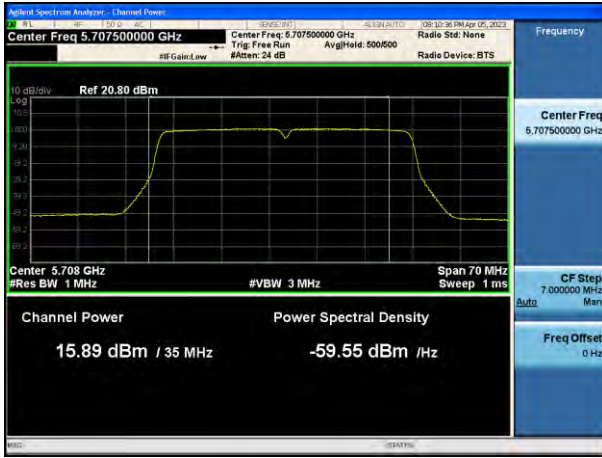
802.11ac(VHT20) UNII 2C Band



802.11ac(VHT20) UNII 3 Band



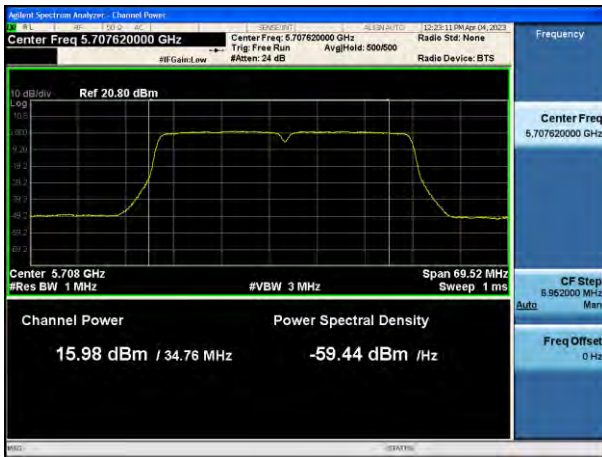
802.11n(HT40) UNII 2C Band



802.11n(HT40) UNII 3 Band



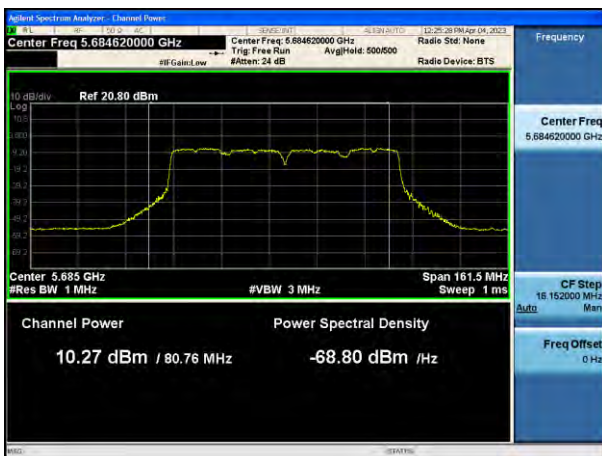
802.11ac(VHT40) UNII 2C Band



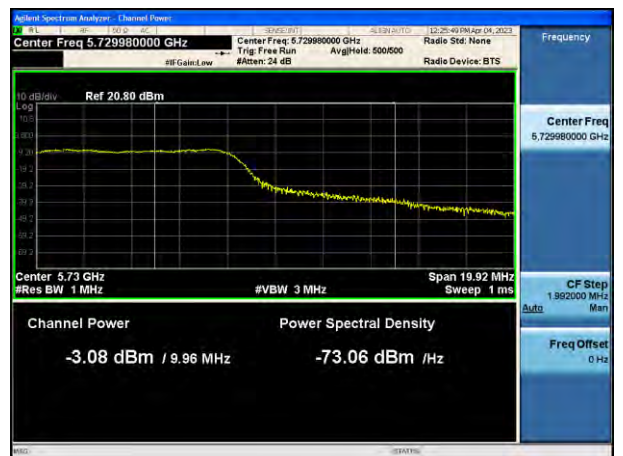
802.11ac(VHT40) UNII 3 Band



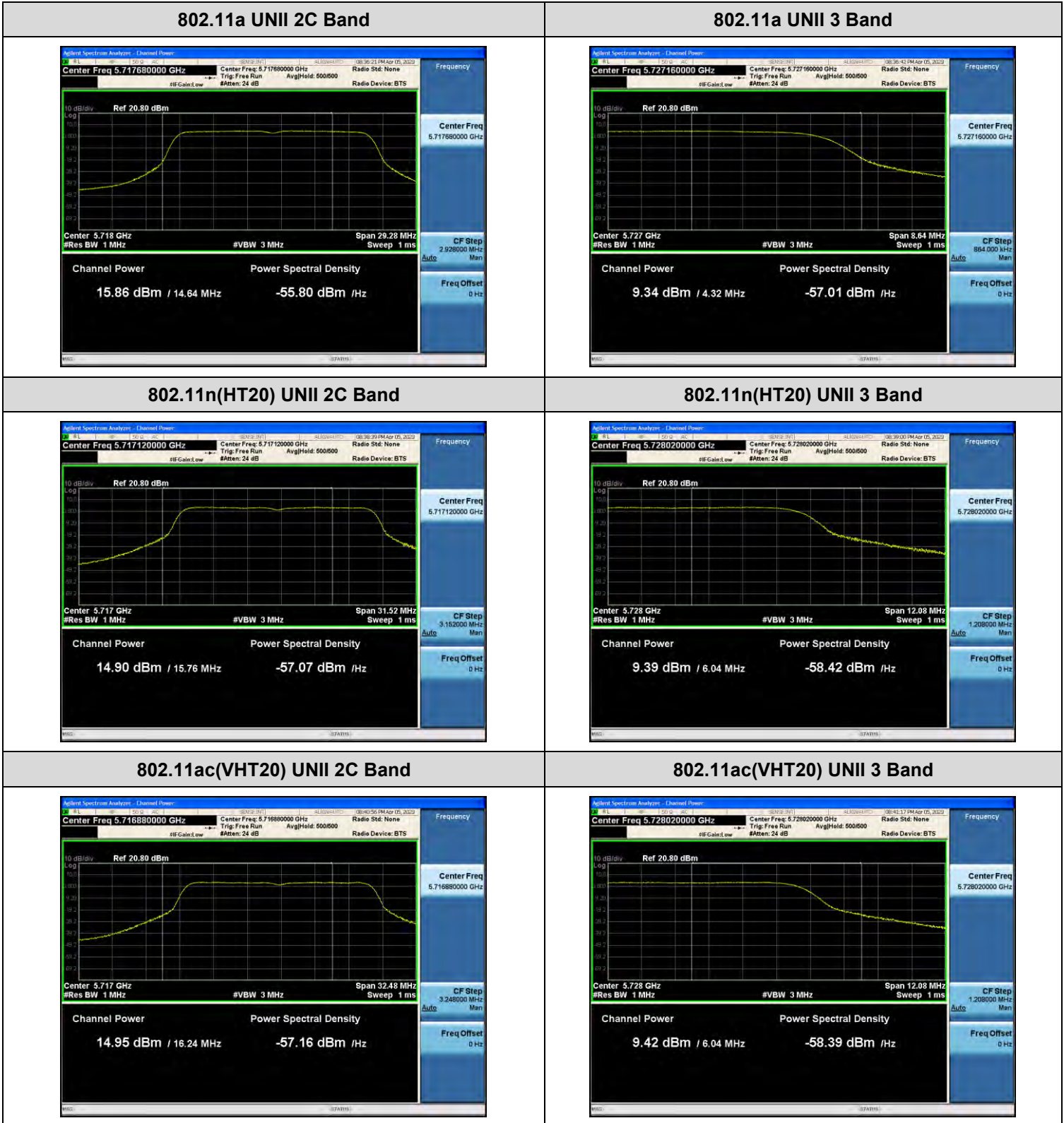
802.11ac(VHT80) UNII 2C Band



802.11ac(VHT80) UNII 3 Band



[Ant.2]
☑ Test Plots



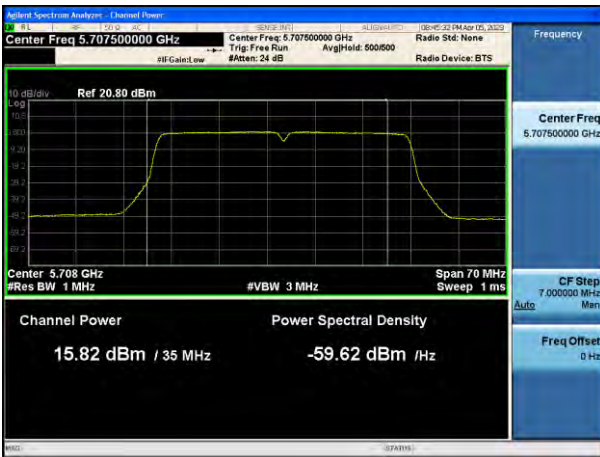
802.11n(HT40) UNII 2C Band



802.11n(HT40) UNII 3 Band



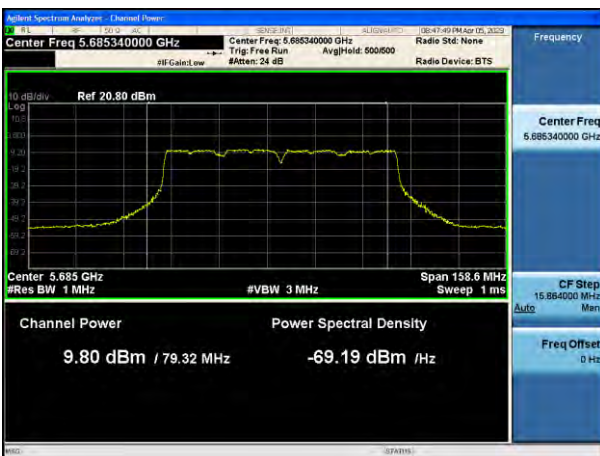
802.11ac(VHT40) UNII 2C Band



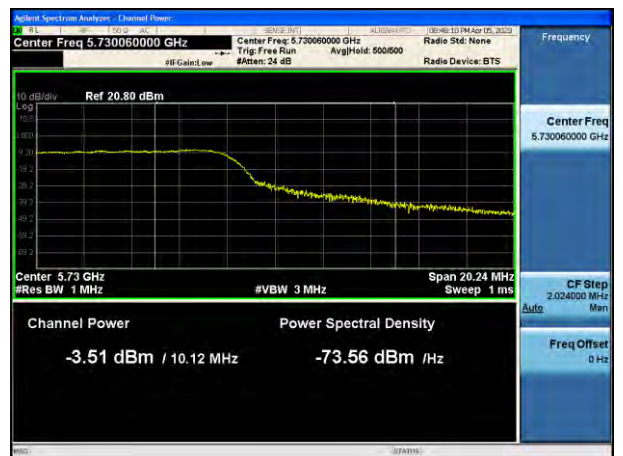
802.11ac(VHT40) UNII 3 Band



802.11ac(VHT80) UNII 2C Band



802.11ac(VHT80) UNII 3 Band



10.7.4 Power Spectral Density

[Ant.1]

Mode	Frequency [MHz]	Channel	Measured Density [dBm]	Duty Cycle Factor [dB]	Total PSD [dBm]	Limit [dBm]	Worstcase Datarate
802.11a	5720	144	5.986	0.755	6.742	11 dBm/ MHz	18 Mbps
802.11n(HT20)	(UNII 2C		4.815	1.416	6.231		MCS4
802.11ac(VHT20)	Band)		4.775	1.436	6.210		MCS4
802.11a	5720	144	2.751	0.755	3.507	30 dBm/ 500 kHz	18 Mbps
802.11n(HT20)	(UNII 3		2.092	1.416	3.508		MCS4
802.11ac(VHT20)	Band)		2.176	1.436	3.611		MCS4

Mode	Frequency [MHz]	Channel	Measured Density [dBm]	Duty Cycle Factor [dB]	Total PSD [dBm]	Limit [dBm]	Worstcase Datarate
802.11n(HT40)	5710	142	1.865	0.644	2.509	11 dBm/ MHz	MCS0
802.11ac(VHT40)	(UNII 2C Band)		1.842	0.621	2.464		MCS0
802.11n(HT40)	5710	142	-2.161	0.644	2.509	30 dBm/ 500 kHz	MCS0
802.11ac(VHT40)	(UNII 3 Band)		-2.102	0.621	2.464		MCS0

Mode	Frequency [MHz]	Channel	Measured Density [dBm]	Duty Cycle Factor [dB]	Total PSD [dBm]	Limit [dBm]	Worstcase Datarate
802.11ac(VHT80)	5690	138	-6.522	6.832	0.311	11 dBm/ MHz	MCS6
	(UNII 2C Band)						
	5690	138	-9.794	6.832	-2.961	30 dBm/ 500 kHz	MCS6
	(UNII 3 Band)						

[Ant.2]

Mode	Frequency [MHz]	Channel	Measured Density [dBm]	Duty Cycle Factor [dB]	Total PSD [dBm]	Limit [dBm]	Worstcase Datarate
802.11a	5720	144	5.826	0.755	6.582	11 dBm/ MHz	18 Mbps
802.11n(HT20)	(UNII 2C		4.556	1.416	5.972		MCS4
802.11ac(VHT20)	Band)		4.645	1.436	6.081		MCS4
802.11a	5720	144	2.320	0.755	3.075	30 dBm/ 500 kHz	18 Mbps
802.11n(HT20)	(UNII 3		1.902	1.416	3.318		MCS4
802.11ac(VHT20)	Band)		1.943	1.436	3.378		MCS4

Mode	Frequency [MHz]	Channel	Measured Density [dBm]	Duty Cycle Factor [dB]	Total PSD [dBm]	Limit [dBm]	Worstcase Datarate
802.11n(HT40)	5710	142	1.555	0.644	2.199	11 dBm/ MHz	MCS0
802.11ac(VHT40)	(UNII 2C Band)		1.567	0.621	2.189		MCS0
802.11n(HT40)	5710	142	-2.240	0.644	-1.517	30 dBm/ 500 kHz	MCS0
802.11ac(VHT40)	(UNII 3 Band)		-2.478	0.621	-1.481		MCS0

Mode	Frequency [MHz]	Channel	Measured Density [dBm]	Duty Cycle Factor [dB]	Total PSD [dBm]	Limit [dBm]	Worstcase Datarate
802.11ac(VHT80)	5690	138	-6.271	6.832	0.561	11 dBm/ MHz	MCS6
	(UNII 2C Band)						
	5690	138	-10.132	6.832	-3.300	30 dBm/ 500 kHz	MCS6
	(UNII 3 Band)						

[Ant.1]

Test Plots

802.11a UNII 2C Band



802.11a UNII 3 Band



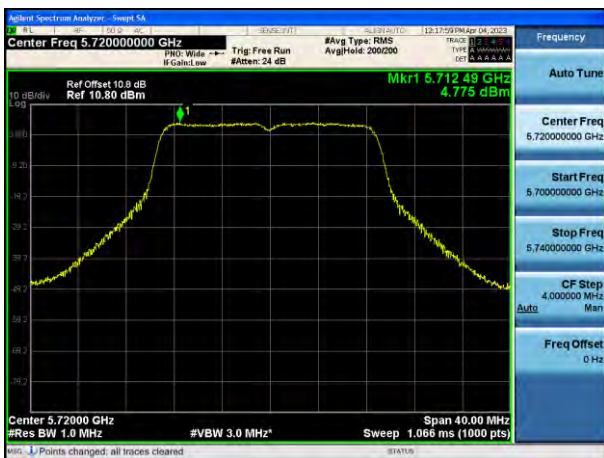
802.11n(HT20) UNII 2C Band



802.11n(HT20) UNII 3 Band



802.11ac(VHT20) UNII 2C Band



802.11ac(VHT20) UNII 3 Band



802.11n(HT40) UNII 2C Band



802.11n(HT40) UNII 3 Band



802.11ac(VHT40) UNII 2C Band



802.11ac(VHT40) UNII 3 Band



802.11ac(VHT80) UNII 2C Band



802.11ac(VHT80) UNII 3 Band



[Ant.2]
 Test Plots

802.11a UNII 2C Band



802.11a UNII 3 Band



802.11n(HT20) UNII 2C Band



802.11n(HT20) UNII 3 Band



802.11ac(VHT20) UNII 2C Band



802.11ac(VHT20) UNII 3 Band



802.11n(HT40) UNII 2C Band



802.11n(HT40) UNII 3 Band



802.11ac(VHT40) UNII 2C Band



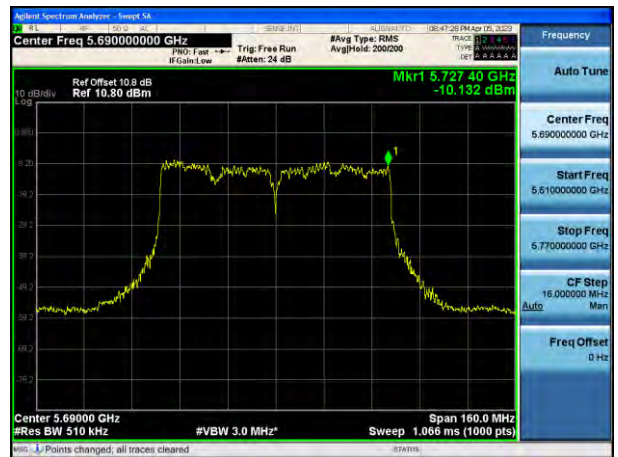
802.11ac(VHT40) UNII 3 Band



802.11ac(VHT80) UNII 2C Band



802.11ac(VHT80) UNII 3 Band



10.8 RADIATED SPURIOUS EMISSIONS

Frequency Range : 9 kHz – 30 MHz

Frequency	Measured Value	A.F+D.F+C.L	POL	Total	Limit	Margin
[MHz]	[dBμV]	[dB/m]	[H/V]	[dBμV/m]	[dBμV/m]	[dB]
No Critical peaks found						

Note:

1. The Measured Value of emissions are attenuated more than 20 dB below the permissible limits or the field strength is too small to be measured.
2. Distance extrapolation factor = $40\log(\text{specific distance} / \text{test distance})$ (dB)
3. Limit line = specific Limits (dBμV) + Distance extrapolation factor

Frequency Range : Below 1 GHz

Frequency	Measured Value	A.F+C.L	POL	Total	Limit	Margin
[MHz]	[dBμV]	[dB/m]	[H/V]	[dBμV/m]	[dBμV/m]	[dB]
No Critical peaks found						

Note:

1. Radiated emissions measured in frequency range from 30 MHz to 1000 MHz were made with an instrument using Quasi peak detector mode

[Ant.1&Ant.2_MIMO(CDD)]

Frequency Range : Above 1 GHz

[Open Mode]

Band :	UNII 1
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5180 MHz
Channel No.	36 Ch

Frequency [MHz]	Measured Value [dBμV]	CL+AF+DF-AG [dB/m]	POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
10360	51.08	-0.60	V	50.48	68.20	17.72	PK
15540	59.81	2.65	V	62.46	73.98	11.52	PK
15540	41.22	2.65	V	43.87	53.98	10.11	AV
10360	51.40	-0.60	H	50.80	68.20	17.40	PK
15540	59.19	2.65	H	61.84	73.98	12.14	PK
15540	42.08	2.65	H	44.73	53.98	9.25	AV
6906	63.97	-5.28	H	58.69	68.20	9.51	PK
6906	62.93	-5.28	V	57.65	68.20	10.55	PK

Band :	UNII 1
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5200 MHz
Channel No.	40 Ch

Frequency [MHz]	Measured Value [dBμV]	CL+AF+DF-AG [dB/m]	POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
10400	51.41	0.64	V	52.05	68.20	16.15	PK
15600	58.39	2.37	V	60.76	73.98	13.22	PK
15600	41.47	2.37	V	43.84	53.98	10.14	AV
10400	52.06	0.64	H	52.70	68.20	15.50	PK
15600	60.40	2.37	H	62.77	73.98	11.21	PK
15600	44.05	2.37	H	46.42	53.98	7.56	AV
6933	63.79	-5.30	H	58.49	68.20	9.71	PK
6933	62.34	-5.30	V	57.04	68.20	11.16	PK

Band :	UNII 1
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5240 MHz
Channel No.	48 Ch

Frequency [MHz]	Measured Value [dBμV]	CL+AF+DF-AG [dB/m]	POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
10480	51.89	-0.35	V	51.54	68.20	16.66	PK
15720	57.19	1.42	V	58.61	73.98	15.37	PK
15720	39.30	1.42	V	40.72	53.98	13.26	AV
10480	52.08	-0.35	H	51.73	68.20	16.47	PK
15720	58.28	1.42	H	59.70	73.98	14.28	PK
15720	40.59	1.42	H	42.01	53.98	11.97	AV
6987	62.22	-5.77	H	56.45	68.20	11.75	PK
6987	61.42	-5.77	V	55.65	68.20	12.55	PK

Band :	UNII 2A
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5260 MHz
Channel No.	52 Ch

Frequency [MHz]	Measured Value [dBμV]	CL+AF+DF-AG [dB/m]	POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
10520	51.30	-0.53	V	50.77	68.20	17.44	PK
15780	55.25	1.47	V	56.72	73.98	17.26	PK
15780	38.45	1.47	V	39.92	53.98	14.06	AV
10520	51.91	-0.53	H	51.38	68.20	16.83	PK
15780	57.04	1.47	H	58.51	73.98	15.47	PK
15780	39.44	1.47	H	40.91	53.98	13.07	AV
7013	60.31	-5.54	H	54.77	68.20	13.43	PK
7013	58.85	-5.54	V	53.31	68.20	14.89	PK

Band :	UNII 2A
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5300 MHz
Channel No.	60 Ch

Frequency [MHz]	Measured Value [dBμV]	CL+AF+DF-AG [dB/m]	POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
10600	51.12	0.02	V	51.14	73.98	22.84	PK
10600	38.03	0.02	V	38.05	53.98	15.93	AV
15900	53.14	0.86	V	54.00	73.98	19.98	PK
15900	37.89	0.86	V	38.75	53.98	15.23	AV
10600	52.66	0.02	H	52.68	73.98	21.30	PK
10600	39.38	0.02	H	39.40	53.98	14.58	AV
15900	58.70	0.86	H	59.56	73.98	14.42	PK
15900	45.77	0.86	H	46.63	53.98	7.35	AV
7066	58.35	-5.15	H	53.20	68.20	15.00	PK
7066	57.66	-5.15	V	52.51	68.20	15.69	PK

Band :	UNII 2A
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5320 MHz
Channel No.	64 Ch

Frequency [MHz]	Measured Value [dB μ V]	CL+AF+DF-AG [dB/m]	POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
10640	50.86	-0.44	V	50.42	73.98	23.56	PK
10640	37.77	-0.44	V	37.33	53.98	16.65	AV
15960	53.59	1.04	V	54.63	73.98	19.35	PK
15960	39.20	1.04	V	40.24	53.98	13.74	AV
10640	50.69	-0.44	H	50.25	73.98	23.73	PK
10640	37.81	-0.44	H	37.37	53.98	16.61	AV
15960	61.67	1.04	H	62.71	73.98	11.27	PK
15960	46.92	1.04	H	47.96	53.98	6.02	AV
7093	59.16	-4.95	H	54.21	68.20	13.99	PK
7093	58.37	-4.95	V	53.42	68.20	14.78	PK

Band :	UNII 2C
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5500 MHz
Channel No.	100 Ch

Frequency [MHz]	Measured Value [dB μ V]	CL+AF+DF-AG [dB/m]	POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
11000	49.92	0.51	V	50.43	73.98	23.55	PK
11000	37.09	0.51	V	37.60	53.98	16.38	AV
16500	59.19	0.85	V	60.04	68.20	8.16	PK
11000	50.24	0.51	H	50.75	73.98	23.23	PK
11000	36.78	0.51	H	37.29	53.98	16.69	AV
16500	61.70	0.85	H	62.55	68.20	5.65	PK

Band : UNII 2C
 Operation Mode: 802.11 a
 Transfer Rate: 6 Mbps
 Operating Frequency 5600 MHz
 Channel No. 120 Ch

Frequency [MHz]	Measured Value [dBμV]	CL+AF+DF-AG [dB/m]	POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
11200	50.40	-0.31	V	50.09	73.98	23.89	PK
11200	37.19	-0.31	V	36.88	53.98	17.10	AV
16800	62.29	0.08	V	62.37	68.20	5.83	PK
11200	49.21	-0.31	H	48.90	73.98	25.08	PK
11200	36.17	-0.31	H	35.86	53.98	18.12	AV
16800	64.06	0.08	H	64.14	68.20	4.06	PK

Band : UNII 2C
 Operation Mode: 802.11 a
 Transfer Rate: 6 Mbps
 Operating Frequency 5720 MHz
 Channel No. 144 Ch

Frequency [MHz]	Measured Value [dBμV]	CL+AF+DF-AG [dB/m]	POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
11440	50.41	-0.02	V	50.39	73.98	23.59	PK
11440	37.61	-0.02	V	37.59	53.98	16.39	AV
17160	58.93	1.01	V	59.94	68.20	8.26	PK
11440	50.41	-0.02	H	50.39	73.98	23.59	PK
11440	37.37	-0.02	H	37.35	53.98	16.63	AV
17160	60.48	1.01	H	61.49	68.20	6.71	PK

Band :	UNII 3
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5745MHz
Channel No.	149 Ch

Frequency [MHz]	Measured Value [dB μ V]	CL+AF+DF-AG [dB/m]	POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
11490	50.43	0.27	V	50.70	73.98	23.28	PK
11490	37.47	0.27	V	37.74	53.98	16.24	AV
17235	57.32	1.48	V	58.80	68.20	9.40	PK
11490	50.72	0.27	H	50.99	73.98	22.99	PK
11490	37.78	0.27	H	38.05	53.98	15.93	AV
17235	54.29	1.48	H	55.77	68.20	12.43	PK

Band :	UNII 3
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5785 MHz
Channel No.	157 Ch

Frequency [MHz]	Measured Value [dB μ V]	CL+AF+DF-AG [dB/m]	POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
11570	50.90	0.41	V	51.31	73.98	22.68	PK
11570	37.54	0.41	V	37.95	53.98	16.04	AV
17355	55.71	1.45	V	57.16	68.20	11.05	PK
11570	50.26	0.41	H	50.67	73.98	23.32	PK
11570	37.92	0.41	H	38.33	53.98	15.66	AV
17355	53.19	1.45	H	54.64	68.20	13.57	PK

Band :	UNII 3
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5825 MHz
Channel No.	165 Ch

Frequency [MHz]	Measured Value [dB μ V]	CL+AF+DF-AG [dB/m]	POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
11650	50.38	0.85	V	51.23	73.98	22.75	PK
11650	37.65	0.85	V	38.50	53.98	15.48	AV
17475	50.64	2.45	V	53.09	68.20	15.11	PK
11650	50.36	0.85	H	51.21	73.98	22.77	PK
11650	37.70	0.85	H	38.55	53.98	15.43	AV
17475	51.16	2.45	H	53.61	68.20	14.59	PK

Band : UNII 4
 Operation Mode: 802.11 a
 Transfer Rate: 6 Mbps
 Operating Frequency 5845
 Channel No. 169 Ch

Frequency [MHz]	Measured Value [dBμV]	CL+AF+DF-AG [dB/m]	POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
11690	50.94	0.05	V	50.99	73.98	22.99	PK
11690	37.71	0.05	V	37.76	53.98	16.22	AV
17535	48.82	3.69	V	52.51	68.20	15.69	PK
11690	51.43	0.05	H	51.48	73.98	22.50	PK
11690	37.75	0.05	H	37.80	53.98	16.18	AV
17535	51.00	3.69	H	54.69	68.20	13.51	PK

Band : UNII 4
 Operation Mode: 802.11 a
 Transfer Rate: 6 Mbps
 Operating Frequency 5865 MHz
 Channel No. 173 Ch

Frequency [MHz]	Measured Value [dBμV]	CL+AF+DF-AG [dB/m]	POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
11730	50.96	-0.53	V	50.43	73.98	23.55	PK
11730	38.09	-0.53	V	37.56	53.98	16.42	AV
17595	48.32	3.62	V	51.94	68.20	16.26	PK
11730	51.13	-0.53	H	50.60	73.98	23.38	PK
11730	38.12	-0.53	H	37.59	53.98	16.39	AV
17595	48.85	3.62	H	52.47	68.20	15.73	PK

Band :	UNII 4
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5885 MHz
Channel No.	177 Ch

Frequency [MHz]	Measured Value [dB μ V]	CL+AF+DF-AG [dB/m]	POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
11770	50.50	0.26	V	50.76	73.98	23.23	PK
11770	37.42	0.26	V	37.68	53.98	16.31	AV
17655	47.55	4.59	V	52.14	68.20	16.07	PK
11770	50.23	0.26	H	50.49	73.98	23.50	PK
11770	37.50	0.26	H	37.76	53.98	16.23	AV
17655	48.10	4.59	H	52.69	68.20	15.52	PK

Band : UNII 2A
 Operation Mode: 802.11n(HT20)
 Transfer MCS Index: 0
 Operating Frequency 5260 MHz
 Channel No. 52 Ch

Frequency [MHz]	Measured Value [dBμV]	CL+AF+DF-AG [dB/m]	POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
10520	52.00	-0.53	V	51.47	68.20	16.74	PK
15780	56.55	1.47	V	58.02	73.98	15.96	PK
15780	37.99	1.47	V	39.46	53.98	14.52	AV
10520	51.33	-0.53	H	50.80	68.20	17.41	PK
15780	61.06	1.47	H	62.53	73.98	11.45	PK
15780	46.09	1.47	H	47.56	53.98	6.42	AV

Band : UNII 2A
 Operation Mode: 802.11n(HT20)
 Transfer MCS Index: 0
 Operating Frequency 5300 MHz
 Channel No. 60 Ch

Frequency [MHz]	Measured Value [dBμV]	CL+AF+DF-AG [dB/m]	POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
10600	51.42	0.02	V	51.44	73.98	22.54	PK
10600	37.99	0.02	V	38.01	53.98	15.97	AV
15900	53.76	0.86	V	54.62	73.98	19.36	PK
15900	37.20	0.86	V	38.06	53.98	15.92	AV
10600	51.08	0.02	H	51.10	73.98	22.88	PK
10600	38.01	0.02	H	38.03	53.98	15.95	AV
15900	63.03	0.86	H	63.89	73.98	10.09	PK
15900	48.26	0.86	H	49.12	53.98	4.86	AV

Band :	UNII 2A
Operation Mode:	802.11n(HT20)
Transfer MCS Index:	0
Operating Frequency	5320 MHz
Channel No.	64 Ch

Frequency [MHz]	Measured Value [dB μ V]	CL+AF+DF-AG [dB/m]	POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
10640	50.97	-0.44	V	50.53	73.98	23.45	PK
10640	37.86	-0.44	V	37.42	53.98	16.56	AV
15960	52.80	1.04	V	53.84	73.98	20.14	PK
15960	36.47	1.04	V	37.51	53.98	16.47	AV
10640	50.45	-0.44	H	50.01	73.98	23.97	PK
10640	37.70	-0.44	H	37.26	53.98	16.72	AV
15960	62.47	1.04	H	63.51	73.98	10.47	PK
15960	47.04	1.04	H	48.08	53.98	5.90	AV

Band :	UNII 2A
Operation Mode:	802.11ac(VHT20)
Transfer MCS Index:	0
Operating Frequency	5260 MHz
Channel No.	52 Ch

Frequency [MHz]	Measured Value [dB μ V]	CL+AF+DF-AG [dB/m]	POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
10520	51.92	-0.53	V	51.39	68.20	16.82	PK
15780	54.19	1.47	V	55.66	73.98	18.32	PK
15780	37.78	1.47	V	39.25	53.98	14.73	AV
10520	52.64	-0.53	H	52.11	68.20	16.10	PK
15780	59.90	1.47	H	61.37	73.98	12.61	PK
15780	46.11	1.47	H	47.58	53.98	6.40	AV

Band :	UNII 2A
Operation Mode:	802.11ac(VHT20)
Transfer MCS Index:	0
Operating Frequency	5300 MHz
Channel No.	60 Ch

Frequency [MHz]	Measured Value [dB μ V]	CL+AF+DF-AG [dB/m]	POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
10600	51.48	0.02	V	51.50	73.98	22.48	PK
10600	38.13	0.02	V	38.15	53.98	15.83	AV
15900	51.55	0.86	V	52.41	73.98	21.57	PK
15900	36.93	0.86	V	37.79	53.98	16.19	AV
10600	51.11	0.02	H	51.13	73.98	22.85	PK
10600	38.63	0.02	H	38.65	53.98	15.33	AV
15900	61.10	0.86	H	61.96	73.98	12.02	PK
15900	47.46	0.86	H	48.32	53.98	5.66	AV

Band :	UNII 2A
Operation Mode:	802.11ac(VHT20)
Transfer MCS Index:	0
Operating Frequency	5320 MHz
Channel No.	64 Ch

Frequency [MHz]	Measured Value [dB μ V]	CL+AF+DF-AG [dB/m]	POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
10640	51.51	-0.44	V	51.07	73.98	22.91	PK
10640	37.93	-0.44	V	37.49	53.98	16.49	AV
15960	51.16	1.04	V	52.20	73.98	21.78	PK
15960	36.36	1.04	V	37.40	53.98	16.58	AV
10640	51.02	-0.44	H	50.58	73.98	23.40	PK
10640	37.79	-0.44	H	37.35	53.98	16.63	AV
15960	62.29	1.04	H	63.33	73.98	10.65	PK
15960	48.59	1.04	H	49.63	53.98	4.35	AV

Band : UNII 2C
 Operation Mode: 802.11n(HT40)
 Transfer MCS Index: 0
 Operating Frequency 5510 MHz
 Channel No. 102 Ch

Frequency [MHz]	Measured Value [dBμV]	CL+AF+DF-AG [dB/m]	POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
11020	49.98	0.51	V	50.50	73.98	23.49	PK
11020	37.49	0.51	V	38.01	53.98	15.98	AV
16530	50.14	0.93	V	51.07	68.20	17.13	PK
11020	49.75	0.51	H	50.27	73.98	23.72	PK
11020	37.83	0.51	H	38.35	53.98	15.64	AV
16530	56.41	0.93	H	57.34	68.20	10.86	PK

Band : UNII 2C
 Operation Mode: 802.11n(HT40)
 Transfer MCS Index: 0
 Operating Frequency 5590 MHz
 Channel No. 118 Ch

Frequency [MHz]	Measured Value [dBμV]	CL+AF+DF-AG [dB/m]	POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
11180	49.39	0.39	V	49.78	73.98	24.20	PK
11180	37.27	0.39	V	37.66	53.98	16.32	AV
16770	52.71	0.46	V	53.17	68.20	15.04	PK
11180	49.59	0.39	H	49.98	73.98	24.00	PK
11180	36.91	0.39	H	37.30	53.98	16.68	AV
16770	57.12	0.46	H	57.58	68.20	10.63	PK

Band :	UNII 2C
Operation Mode:	802.11n(HT40)
Transfer MCS Index:	0
Operating Frequency	5710 MHz
Channel No.	142 Ch

Frequency [MHz]	Measured Value [dB μ V]	CL+AF+DF-AG [dB/m]	POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
11420	50.43	-0.12	V	50.32	73.98	23.67	PK
11420	38.17	-0.12	V	38.06	53.98	15.93	AV
17130	50.57	1.45	V	52.02	68.20	16.18	PK
11420	51.39	-0.12	H	51.28	73.98	22.71	PK
11420	38.28	-0.12	H	38.17	53.98	15.82	AV
17130	53.84	1.45	H	55.29	68.20	12.91	PK

Band : UNII 2C
 Operation Mode: 802.11ac(VHT40)
 Transfer MCS Index: 0
 Operating Frequency 5510 MHz
 Channel No. 102 Ch

Frequency [MHz]	Measured Value [dBμV]	CL+AF+DF-AG [dB/m]	POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
11020	49.84	0.51	V	50.36	73.98	23.63	PK
11020	37.46	0.51	V	37.98	53.98	16.01	AV
16530	50.55	0.93	V	51.48	68.20	16.72	PK
11020	49.76	0.51	H	50.28	73.98	23.71	PK
11020	37.35	0.51	H	37.87	53.98	16.12	AV
16530	56.11	0.93	H	57.04	68.20	11.16	PK

Band : UNII 2C
 Operation Mode: 802.11ac(VHT40)
 Transfer MCS Index: 0
 Operating Frequency 5590 MHz
 Channel No. 118 Ch

Frequency [MHz]	Measured Value [dBμV]	CL+AF+DF-AG [dB/m]	POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
11180	49.45	0.39	V	49.84	73.98	24.14	PK
11180	37.23	0.39	V	37.62	53.98	16.36	AV
16770	51.29	0.46	V	51.75	68.20	16.46	PK
11180	49.61	0.39	H	50.00	73.98	23.98	PK
11180	37.15	0.39	H	37.54	53.98	16.44	AV
16770	57.54	0.46	H	58.00	68.20	10.21	PK

Band :	UNII 2C
Operation Mode:	802.11ac(VHT40)
Transfer MCS Index:	0
Operating Frequency	5710 MHz
Channel No.	142 Ch

Frequency [MHz]	Measured Value [dB μ V]	CL+AF+DF-AG [dB/m]	POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
11420	51.34	-0.12	V	51.23	73.98	22.76	PK
11420	38.29	-0.12	V	38.18	53.98	15.81	AV
17130	51.05	1.45	V	52.50	68.20	15.70	PK
11420	50.47	-0.12	H	50.36	73.98	23.63	PK
11420	38.23	-0.12	H	38.12	53.98	15.87	AV
17130	53.77	1.45	H	55.22	68.20	12.98	PK

Band :	UNII 2C
Operation Mode:	802.11ac(VHT80)
Transfer MCS Index:	0
Operating Frequency	5530 MHz
Channel No.	106 Ch

Frequency [MHz]	Measured Value [dBμV]	CL+AF+DF-AG [dB/m]	POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
11060	49.92	-0.72	V	49.20	73.98	24.78	PK
11060	37.60	-0.72	V	36.88	53.98	17.10	AV
16590	48.88	0.55	V	49.43	68.20	18.77	PK
11060	49.51	-0.72	H	48.79	73.98	25.19	PK
11060	37.56	-0.72	H	36.84	53.98	17.14	AV
16590	50.56	0.55	H	51.11	68.20	17.09	PK

Band :	UNII 2C
Operation Mode:	802.11ac(VHT80)
Transfer MCS Index:	0
Operating Frequency	5610 MHz
Channel No.	122 Ch

Frequency [MHz]	Measured Value [dBμV]	CL+AF+DF-AG [dB/m]	POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
11220	49.51	-0.20	V	49.31	73.98	24.67	PK
11220	37.15	-0.20	V	36.95	53.98	17.03	AV
16830	49.05	0.35	V	49.40	68.20	18.80	PK
11220	49.24	-0.20	H	49.04	73.98	24.94	PK
11220	37.10	-0.20	H	36.90	53.98	17.08	AV
16830	55.48	0.35	H	55.83	68.20	12.37	PK

Band :	UNII 2C
Operation Mode:	802.11ac(VHT80)
Transfer MCS Index:	0
Operating Frequency	5690 MHz
Channel No.	138 Ch

Frequency [MHz]	Measured Value [dB μ V]	CL+AF+DF-AG [dB/m]	POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
11380	50.32	0.52	V	50.84	73.98	23.14	PK
11380	38.79	0.52	V	39.31	53.98	14.67	AV
17070	49.10	1.08	V	50.18	68.20	18.03	PK
11380	50.64	0.52	H	51.16	73.98	22.82	PK
11380	38.69	0.52	H	39.21	53.98	14.77	AV
17070	53.58	1.08	H	54.66	68.20	13.55	PK

Band :	UNII 3&4
Operation Mode:	802.11ac(VHT160)
Transfer MCS Index:	0
Operating Frequency	5815 MHz
Channel No.	163 Ch

Frequency [MHz]	Measured Value [dBμV]	CL+AF+DF-AG [dB/m]	POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
11630	49.77	0.25	V	50.02	73.98	23.96	PK
11630	36.52	0.25	V	36.77	53.98	17.21	AV
17445	50.16	2.29	V	52.45	68.20	15.75	PK
11630	50.88	0.25	H	51.13	73.98	22.85	PK
11630	37.11	0.25	H	37.36	53.98	16.62	AV
17445	50.37	2.29	H	52.66	68.20	15.54	PK

[Half Open Mode]

Band :	UNII 1
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5180 MHz
Channel No.	36 Ch

Frequency [MHz]	Measured Value [dB μ V]	CL+AF+DF-AG [dB/m]	POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
10360	50.86	-0.60	V	50.26	68.20	17.94	PK
15540	56.56	2.65	V	59.21	73.98	14.77	PK
15540	37.55	2.65	V	40.20	53.98	13.78	AV
10360	51.26	-0.60	H	50.66	68.20	17.54	PK
15540	57.31	2.65	H	59.96	73.98	14.02	PK
15540	39.19	2.65	H	41.84	53.98	12.14	AV

Band :	UNII 1
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5200 MHz
Channel No.	40 Ch

Frequency [MHz]	Measured Value [dB μ V]	CL+AF+DF-AG [dB/m]	POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
10400	51.25	0.64	V	51.89	68.20	16.31	PK
15600	56.35	2.37	V	58.72	73.98	15.26	PK
15600	38.16	2.37	V	40.53	53.98	13.45	AV
10400	50.84	0.64	H	51.48	68.20	16.72	PK
15600	56.33	2.37	H	58.70	73.98	15.28	PK
15600	39.28	2.37	H	41.65	53.98	12.33	AV

Band :	UNII 1
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5240 MHz
Channel No.	48 Ch

Frequency [MHz]	Measured Value [dB μ V]	CL+AF+DF-AG [dB/m]	POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
10480	51.50	-0.35	V	51.15	68.20	17.05	PK
15720	52.42	1.42	V	53.84	73.98	20.14	PK
15720	37.04	1.42	V	38.46	53.98	15.52	AV
10480	51.37	-0.35	H	51.02	68.20	17.18	PK
15720	54.26	1.42	H	55.68	73.98	18.30	PK
15720	37.06	1.42	H	38.48	53.98	15.50	AV

Band :	UNII 1
Operation Mode:	802.11n(HT40)
Transfer MCS Index:	0
Operating Frequency	5190 MHz
Channel No.	38 Ch

Frequency [MHz]	Measured Value [dB μ V]	CL+AF+DF-AG [dB/m]	POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
10380	51.71	1.14	V	52.85	68.20	15.35	PK
15570	49.56	2.21	V	51.77	73.98	22.22	PK
15570	36.68	2.21	V	38.89	53.98	15.10	AV
10380	51.28	1.14	H	52.42	68.20	15.78	PK
15570	51.33	2.21	H	53.54	73.98	20.45	PK
15570	36.92	2.21	H	39.13	53.98	14.86	AV

Band :	UNII 1
Operation Mode:	802.11n(HT40)
Transfer MCS Index:	0
Operating Frequency	5230 MHz
Channel No.	46 Ch

Frequency [MHz]	Measured Value [dB μ V]	CL+AF+DF-AG [dB/m]	POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
10460	52.55	-0.60	V	51.95	68.20	16.25	PK
15690	50.50	1.85	V	52.35	73.98	21.63	PK
15690	37.10	1.85	V	38.95	53.98	15.03	AV
10460	51.91	-0.60	H	51.31	68.20	16.89	PK
15690	50.59	1.85	H	52.44	73.98	21.54	PK
15690	37.36	1.85	H	39.21	53.98	14.77	AV

Band : UNII 2C
 Operation Mode: 802.11ac(VHT80)
 Transfer MCS Index: 0
 Operating Frequency 5530 MHz
 Channel No. 106 Ch

Frequency [MHz]	Measured Value [dBμV]	CL+AF+DF-AG [dB/m]	POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
11060	51.09	-0.72	V	50.37	73.98	23.61	PK
11060	38.22	-0.72	V	37.50	53.98	16.48	AV
16590	49.45	0.55	V	50.00	68.20	18.20	PK
11060	50.52	-0.72	H	49.80	73.98	24.18	PK
11060	37.92	-0.72	H	37.20	53.98	16.78	AV
16590	49.89	0.55	H	50.44	68.20	17.76	PK

Band : UNII 2C
 Operation Mode: 802.11ac(VHT80)
 Transfer MCS Index: 0
 Operating Frequency 5610 MHz
 Channel No. 122 Ch

Frequency [MHz]	Measured Value [dBμV]	CL+AF+DF-AG [dB/m]	POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
11220	49.59	-0.20	V	49.39	73.98	24.59	PK
11220	38.04	-0.20	V	37.84	53.98	16.14	AV
16830	49.26	0.35	V	49.61	68.20	18.59	PK
11220	50.03	-0.20	H	49.83	73.98	24.15	PK
11220	37.59	-0.20	H	37.39	53.98	16.59	AV
16830	49.67	0.35	H	50.02	68.20	18.18	PK

Band : UNII 2C
 Operation Mode: 802.11ac(VHT80)
 Transfer MCS Index: 0
 Operating Frequency 5690 MHz
 Channel No. 138 Ch

Frequency [MHz]	Measured Value [dBμV]	CL+AF+DF-AG [dB/m]	POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
11380	51.56	0.52	V	52.08	73.98	21.90	PK
11380	39.33	0.52	V	39.85	53.98	14.13	AV
17070	49.61	1.08	V	50.69	68.20	17.52	PK
11380	51.06	0.52	H	51.58	73.98	22.40	PK
11380	38.69	0.52	H	39.21	53.98	14.77	AV
17070	49.19	1.08	H	50.27	68.20	17.94	PK

Band : UNII 3&4
 Operation Mode: 802.11ac(VHT160)
 Transfer MCS Index: 0
 Operating Frequency 5815 MHz
 Channel No. 163 Ch

Frequency [MHz]	Measured Value [dBμV]	CL+AF+DF-AG [dB/m]	POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
11630	50.89	0.25	V	51.14	73.98	22.84	PK
11630	39.19	0.25	V	39.44	53.98	14.54	AV
17445	49.48	2.29	V	51.77	68.20	16.43	PK
11630	51.17	0.25	H	51.42	73.98	22.56	PK
11630	38.44	0.25	H	38.69	53.98	15.29	AV
17445	48.72	2.29	H	51.01	68.20	17.19	PK

[Closed Mode]

Band : UNII 1
 Operation Mode: 802.11 a
 Transfer Rate: 6 Mbps
 Operating Frequency 5180 MHz
 Channel No. 36 Ch

Frequency [MHz]	Measured Value [dBμV]	CL+AF+DF-AG [dB/m]	POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
10360	51.30	-0.60	V	50.70	68.20	17.50	PK
15540	55.69	2.65	V	58.34	73.98	15.64	PK
15540	38.58	2.65	V	41.23	53.98	12.75	AV
10360	51.36	-0.60	H	50.76	68.20	17.44	PK
15540	57.90	2.65	H	60.55	73.98	13.43	PK
15540	39.88	2.65	H	42.53	53.98	11.45	AV

Band : UNII 1
 Operation Mode: 802.11 a
 Transfer Rate: 6 Mbps
 Operating Frequency 5200 MHz
 Channel No. 40 Ch

Frequency [MHz]	Measured Value [dBμV]	CL+AF+DF-AG [dB/m]	POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
10400	51.30	0.64	V	51.94	68.20	16.26	PK
15600	55.46	2.37	V	57.83	73.98	16.15	PK
15600	39.10	2.37	V	41.47	53.98	12.51	AV
10400	51.49	0.64	H	52.13	68.20	16.07	PK
15600	57.01	2.37	H	59.38	73.98	14.60	PK
15600	39.78	2.37	H	42.15	53.98	11.83	AV

Band : UNII 1
 Operation Mode: 802.11 a
 Transfer Rate: 6 Mbps
 Operating Frequency 5240 MHz
 Channel No. 48 Ch

Frequency [MHz]	Measured Value [dBμV]	CL+AF+DF-AG [dB/m]	POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
10480	52.06	-0.35	V	51.71	68.20	16.49	PK
15720	53.43	1.42	V	54.85	73.98	19.13	PK
15720	37.41	1.42	V	38.83	53.98	15.15	AV
10480	51.86	-0.35	H	51.51	68.20	16.69	PK
15720	56.50	1.42	H	57.92	73.98	16.06	PK
15720	38.17	1.42	H	39.59	53.98	14.39	AV

Band : UNII 1
 Operation Mode: 802.11n(HT40)
 Transfer MCS Index: 0
 Operating Frequency 5190 MHz
 Channel No. 38 Ch

Frequency [MHz]	Measured Value [dBμV]	CL+AF+DF-AG [dB/m]	POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
10380	51.26	1.14	V	52.40	68.20	15.80	PK
15570	49.20	2.21	V	51.41	73.98	22.58	PK
15570	36.71	2.21	V	38.92	53.98	15.07	AV
10380	51.48	1.14	H	52.62	68.20	15.58	PK
15570	49.48	2.21	H	51.69	73.98	22.30	PK
15570	36.74	2.21	H	38.95	53.98	15.04	AV

Band : UNII 1
 Operation Mode: 802.11n(HT40)
 Transfer MCS Index: 0
 Operating Frequency 5230 MHz
 Channel No. 46 Ch

Frequency [MHz]	Measured Value [dBμV]	CL+AF+DF-AG [dB/m]	POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
10460	51.65	-0.60	V	51.05	68.20	17.15	PK
15690	50.59	1.85	V	52.44	73.98	21.54	PK
15690	37.21	1.85	V	39.06	53.98	14.92	AV
10460	51.79	-0.60	H	51.19	68.20	17.01	PK
15690	50.52	1.85	H	52.37	73.98	21.61	PK
15690	37.52	1.85	H	39.37	53.98	14.61	AV

Band : UNII 2C
 Operation Mode: 802.11ac(VHT80)
 Transfer MCS Index: 0
 Operating Frequency 5530 MHz
 Channel No. 106 Ch

Frequency [MHz]	Measured Value [dBμV]	CL+AF+DF-AG [dB/m]	POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
11060	50.22	-0.72	V	49.50	73.98	24.48	PK
11060	37.79	-0.72	V	37.07	53.98	16.91	AV
16590	49.41	0.55	V	49.96	68.20	18.24	PK
11060	50.13	-0.72	H	49.41	73.98	24.57	PK
11060	37.85	-0.72	H	37.13	53.98	16.85	AV
16590	48.96	0.55	H	49.51	68.20	18.69	PK

Band : UNII 2C
 Operation Mode: 802.11ac(VHT80)
 Transfer MCS Index: 0
 Operating Frequency 5610 MHz
 Channel No. 122 Ch

Frequency [MHz]	Measured Value [dBμV]	CL+AF+DF-AG [dB/m]	POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
11220	49.31	-0.20	V	49.11	73.98	24.87	PK
11220	37.44	-0.20	V	37.24	53.98	16.74	AV
16830	49.38	0.35	V	49.73	68.20	18.47	PK
11220	49.47	-0.20	H	49.27	73.98	24.71	PK
11220	37.44	-0.20	H	37.24	53.98	16.74	AV
16830	50.52	0.35	H	50.87	68.20	17.33	PK

Band : UNII 2C
 Operation Mode: 802.11ac(VHT80)
 Transfer MCS Index: 0
 Operating Frequency 5690 MHz
 Channel No. 138 Ch

Frequency [MHz]	Measured Value [dBμV]	CL+AF+DF-AG [dB/m]	POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
11380	50.91	0.52	V	51.43	73.98	22.55	PK
11380	39.27	0.52	V	39.79	53.98	14.19	AV
17070	49.17	1.08	V	50.25	68.20	17.96	PK
11380	51.01	0.52	H	51.53	73.98	22.45	PK
11380	38.56	0.52	H	39.08	53.98	14.90	AV
17070	48.96	1.08	H	50.04	68.20	18.17	PK

[RSDB]

Scenario 2

[Open Mode]

WLAN 2.4 GHz MIMO(802.11b Ch.11) + WLAN 5 GHz MIMO(802.11a Ch.120)

Frequency [MHz]	Measured Value [dBμV]	CL+AF+DF-AG [dB/m]	POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
11200	50.34	-0.31	V	50.03	73.98	23.95	PK
11200	37.92	-0.31	V	37.61	53.98	16.37	AV
16800	52.08	0.08	V	52.16	68.20	16.04	PK
11200	50.19	-0.31	H	49.88	73.98	24.10	PK
11200	36.55	-0.31	H	36.24	53.98	17.74	AV
16800	51.37	0.08	H	51.45	68.20	16.75	PK

Note :

1. DTS RSDB data refer to [DTS] Test Report.

Scenario 3

[Open Mode]

Bluetooth Ch.0 π/4-DQPSK + WLAN 2.4 GHz MIMO(802.11b Ch.6) + WLAN 5 GHz MIMO(802.11a, Ch.120)

Frequency [MHz]	Measured Value [dBμV]	CL+AF+DF-AG [dB/m]	POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
11200	49.79	-0.31	V	49.48	73.98	24.50	PK
11200	36.33	-0.31	V	36.02	53.98	17.96	AV
16800	51.85	0.08	V	51.93	68.20	16.27	PK
11200	49.05	-0.31	H	48.74	73.98	25.24	PK
11200	36.09	-0.31	H	35.78	53.98	18.20	AV
16800	50.99	0.08	H	51.07	68.20	17.13	PK

Note :

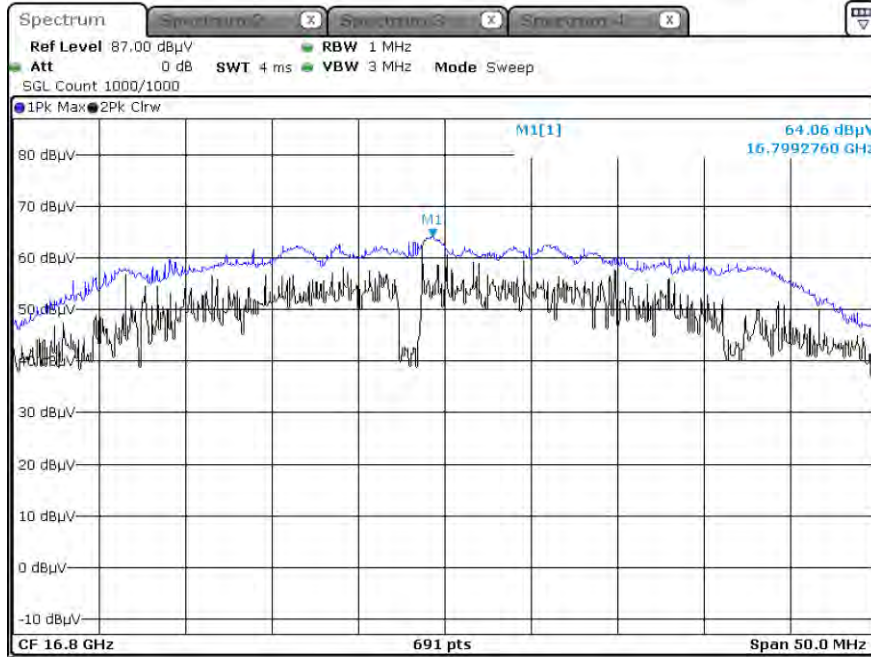
1. DTS, BT RSDB data refer to [DTS], [BT] Test Report.

▣ Test Plots

[Ant.1&Ant.2_MIMO(CDD)]

[Open Mode]

Radiated Spurious Emissions plot – Peak Result (802.11a, Ch.120 Spurious Emissions, Z-H)



Note:

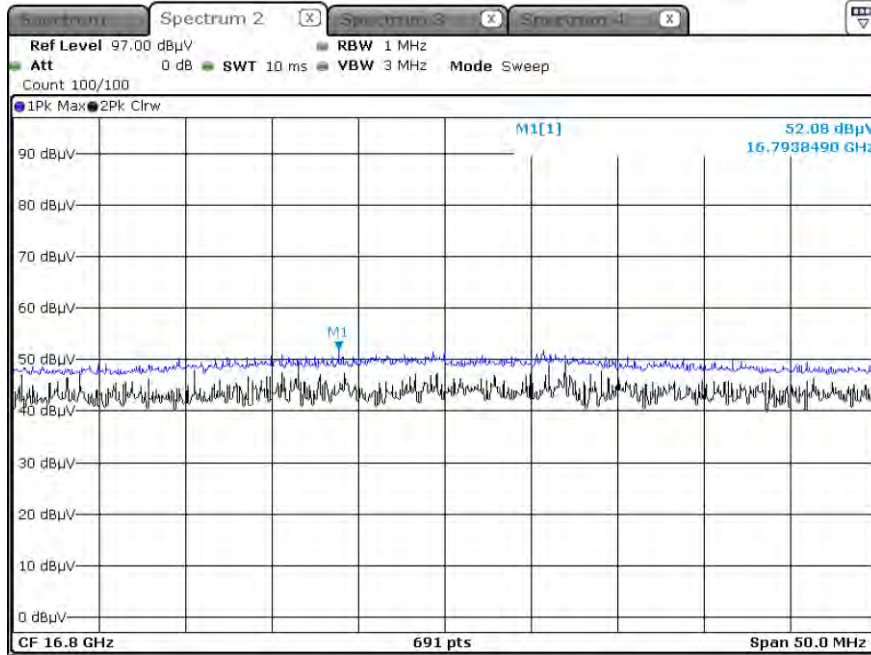
Only the worst case plots for Radiated Spurious Emissions.

[RSDB]

Scenario 2

WLAN_2.4 GHz MIMO(802.11b Ch.11) + WLAN 5 GHz MIMO(802.11a Ch.120)

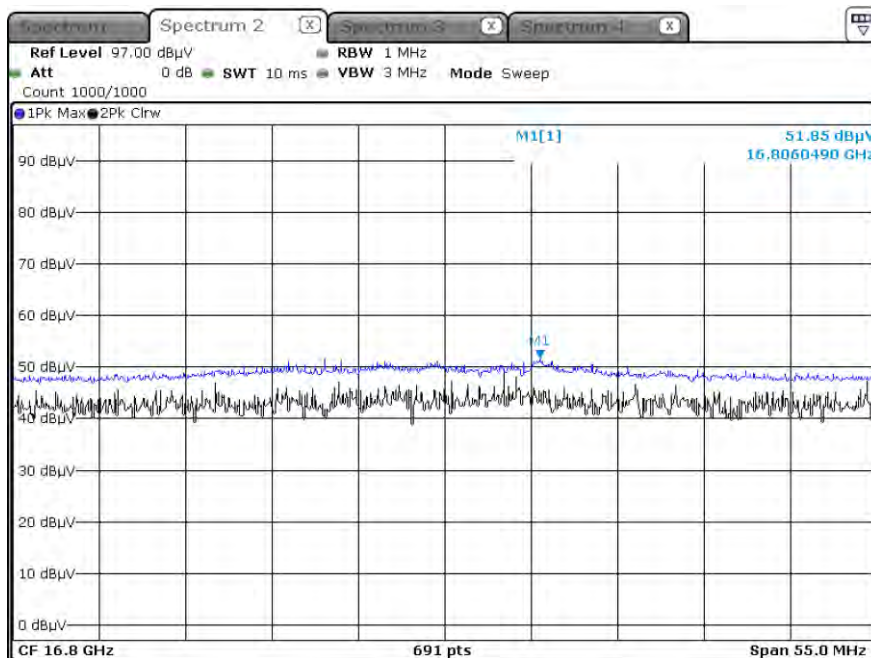
Radiated Spurious Emissions plot – Peak Result (Spurious Emissions, 3rd, Y-V)



Scenario 3

Bluetooth Ch.0 π/4-DQPSK + WLAN 2.4 GHz MIMO(802.11b Ch.6) + WLAN 5 GHz MIMO(802.11a, Ch.120)

Radiated Spurious Emissions plot – Peak Result (Spurious Emissions, 3rd, Y-V)



10.9 RADIATED RESTRICTED BAND EDGE

[Ant.1&Ant.2_MIMO(CDD)]

Open Mode

Band :	UNII 1
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5180 MHz
Channel No.	36 Ch

Frequency [MHz]	Measured Value [dBμV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
5150	52.20	13.82	H	66.02	73.98	7.96	PK
5150	33.16	13.82	H	46.98	53.98	7.00	AV
5150	51.33	13.82	V	65.15	73.98	8.83	PK
5150	32.79	13.82	V	46.61	53.98	7.37	AV

Band :	UNII 2A
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5320 MHz
Channel No.	64 Ch

Frequency [MHz]	Measured Value [dBμV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
5350	53.06	14.20	H	67.26	73.98	6.72	PK
5350	33.29	14.20	H	47.49	53.98	6.49	AV
5350	52.63	14.20	V	66.83	73.98	7.15	PK
5350	32.65	14.20	V	46.85	53.98	7.13	AV

Band :	UNII 2C
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5500 MHz
Channel No.	100 Ch

Frequency [MHz]	Measured Value [dBμV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
5460	44.16	14.76	H	58.92	73.98	15.06	PK
5460	31.45	14.76	H	46.21	53.98	7.77	AV
5470	44.41	15.02	H	59.43	68.20	8.77	PK
5460	42.63	14.76	V	57.39	73.98	16.59	PK
5460	30.81	14.76	V	45.57	53.98	8.41	AV
5470	43.34	15.02	V	58.36	68.20	9.84	PK

Band : UNII 1
 Operation Mode: 802.11 n_HT20
 Transfer MCS Index: 0
 Operating Frequency 5180 MHz
 Channel No. 36 Ch

Frequency [MHz]	Measured Value [dB μ V]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
5150	52.61	13.82	H	66.43	73.98	7.55	PK
5150	33.96	13.82	H	47.78	53.98	6.20	AV
5150	51.53	13.82	V	65.35	73.98	8.63	PK
5150	32.84	13.82	V	46.66	53.98	7.32	AV

Band : UNII 2A
 Operation Mode: 802.11 n_HT20
 Transfer MCS Index: 0
 Operating Frequency 5320 MHz
 Channel No. 64 Ch

Frequency [MHz]	Measured Value [dB μ V]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
5350	51.14	14.20	H	65.34	73.98	8.64	PK
5350	32.39	14.20	H	46.59	53.98	7.39	AV
5350	50.52	14.20	V	64.72	73.98	9.26	PK
5350	32.28	14.20	V	46.48	53.98	7.50	AV

Band :	UNII 2C
Operation Mode:	802.11 n_HT20
Transfer MCS Index:	0
Operating Frequency	5500 MHz
Channel No.	100 Ch

Frequency [MHz]	Measured Value [dB μ V]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
5460	44.27	14.76	H	59.03	73.98	14.95	PK
5460	31.62	14.76	H	46.38	53.98	7.60	AV
5470	44.32	15.02	H	59.34	68.20	8.86	PK
5460	43.92	14.76	V	58.68	73.98	15.30	PK
5460	31.24	14.76	V	46.00	53.98	7.98	AV
5470	44.01	15.02	V	59.03	68.20	9.17	PK

Band : UNII 1
 Operation Mode: 802.11 ac_VHT20
 Transfer MCS Index: 0
 Operating Frequency 5180 MHz
 Channel No. 36 Ch

Frequency [MHz]	Measured Value [dBμV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
5150	47.40	13.82	H	61.22	73.98	12.76	PK
5150	33.45	13.82	H	47.27	53.98	6.71	AV
5150	46.21	13.82	V	60.03	73.98	13.95	PK
5150	32.92	13.82	V	46.74	53.98	7.24	AV

Band : UNII 2A
 Operation Mode: 802.11 ac_VHT20
 Transfer MCS Index: 0
 Operating Frequency 5320 MHz
 Channel No. 64 Ch

Frequency [MHz]	Measured Value [dBμV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
5350	50.71	14.20	H	64.91	73.98	9.07	PK
5350	32.36	14.20	H	46.56	53.98	7.42	AV
5350	49.61	14.20	V	63.81	73.98	10.17	PK
5350	32.13	14.20	V	46.33	53.98	7.65	AV

Band :	UNII 2C
Operation Mode:	802.11 ac_VHT20
Transfer MCS Index:	0
Operating Frequency	5500 MHz
Channel No.	100 Ch

Frequency [MHz]	Measured Value [dB μ V]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
5460	43.55	14.76	H	58.31	73.98	15.67	PK
5460	31.48	14.76	H	46.24	53.98	7.74	AV
5470	44.54	15.02	H	59.56	68.20	8.64	PK
5460	42.44	14.76	V	57.20	73.98	16.78	PK
5460	31.33	14.76	V	46.09	53.98	7.89	AV
5470	43.84	15.02	V	58.86	68.20	9.34	PK

Band : UNII 1
 Operation Mode: 802.11 n_HT40
 Transfer MCS Index: 0
 Operating Frequency 5190 MHz
 Channel No. 38 Ch

Frequency [MHz]	Measured Value [dBμV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
5150	49.68	13.82	H	63.50	73.98	10.48	PK
5150	36.98	13.82	H	50.8	53.98	3.18	AV
5150	48.36	13.82	V	62.18	73.98	11.80	PK
5150	35.86	13.82	V	49.68	53.98	4.30	AV

Band : UNII 2A
 Operation Mode: 802.11 n_HT40
 Transfer MCS Index: 0
 Operating Frequency 5310 MHz
 Channel No. 62 Ch

Frequency [MHz]	Measured Value [dBμV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
5350	48.49	14.20	H	62.69	73.98	11.29	PK
5350	36.28	14.20	H	50.48	53.98	3.50	AV
5350	46.98	14.20	V	61.18	73.98	12.80	PK
5350	35.42	14.20	V	49.62	53.98	4.36	AV

Band :	UNII 2C
Operation Mode:	802.11 n_HT40
Transfer MCS Index:	0
Operating Frequency	5510 MHz
Channel No.	102 Ch

Frequency [MHz]	Measured Value [dB μ V]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
5460	44.50	14.76	H	59.26	73.98	14.72	PK
5460	31.75	14.76	H	46.51	53.98	7.47	AV
5470	46.73	15.02	H	61.75	68.20	6.45	PK
5460	43.92	14.76	V	58.68	73.98	15.30	PK
5460	30.57	14.76	V	45.33	53.98	8.65	AV
5470	45.28	15.02	V	60.3	68.20	7.90	PK

Band : UNII 1
 Operation Mode: 802.11 ac_VHT40
 Transfer MCS Index: 0
 Operating Frequency 5190 MHz
 Channel No. 38 Ch

Frequency [MHz]	Measured Value [dB μ V]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
5150	51.99	13.82	H	65.81	73.98	8.17	PK
5150	36.80	13.82	H	50.62	53.98	3.36	AV
5150	49.92	13.82	V	63.74	73.98	10.24	PK
5150	35.41	13.82	V	49.23	53.98	4.75	AV

Band : UNII 2A
 Operation Mode: 802.11 ac_VHT40
 Transfer MCS Index: 0
 Operating Frequency 5310 MHz
 Channel No. 62 Ch

Frequency [MHz]	Measured Value [dB μ V]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
5350	48.88	14.20	H	63.08	73.98	10.90	PK
5350	35.61	14.20	H	49.81	53.98	4.17	AV
5350	47.92	14.20	V	62.12	73.98	11.86	PK
5350	36.02	14.20	V	50.22	53.98	3.76	AV

Band :	UNII 2C
Operation Mode:	802.11 ac_VHT40
Transfer MCS Index:	0
Operating Frequency	5510 MHz
Channel No.	102 Ch

Frequency [MHz]	Measured Value [dB μ V]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
5460	44.52	14.76	H	59.28	73.98	14.70	PK
5460	32.35	14.76	H	47.11	53.98	6.87	AV
5470	48.86	15.02	H	63.88	68.20	4.32	PK
5460	43.28	14.76	V	58.04	73.98	15.94	PK
5460	32.12	14.76	V	46.88	53.98	7.10	AV
5470	47.68	15.02	V	62.7	68.20	5.50	PK

Band : UNII 1

Operation Mode: 802.11 ac_VHT80

Transfer MCS Index: 0

Operating Frequency 5210 MHz

Channel No. 42 Ch

Frequency [MHz]	Measured Value [dB μ V]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
5150	47.66	13.82	H	61.48	73.98	12.50	PK
5150	35.87	13.82	H	49.69	53.98	4.29	AV
5150	46.24	13.82	V	60.06	73.98	13.92	PK
5150	34.11	13.82	V	47.93	53.98	6.05	AV

Band : UNII 2A

Operation Mode: 802.11 ac_VHT80

Transfer MCS Index: 0

Operating Frequency 5290 MHz

Channel No. 58 Ch

Frequency [MHz]	Measured Value [dB μ V]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
5350	49.93	14.20	H	64.13	73.98	9.85	PK
5350	37.42	14.20	H	51.62	53.98	2.36	AV
5350	48.62	14.20	V	62.82	73.98	11.16	PK
5350	36.91	14.20	V	51.11	53.98	2.87	AV

Band :	UNII 2C
Operation Mode:	802.11 ac_VHT80
Transfer MCS Index:	0
Operating Frequency	5530 MHz
Channel No.	106 Ch

Frequency [MHz]	Measured Value [dB μ V]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
5460	48.34	14.76	H	63.10	73.98	10.88	PK
5460	35.87	14.76	H	50.63	53.98	3.35	AV
5470	48.60	15.02	H	63.62	68.20	4.58	PK
5460	47.56	14.76	V	62.32	73.98	11.66	PK
5460	34.92	14.76	V	49.68	53.98	4.30	AV
5470	48.12	15.02	V	63.14	68.20	5.06	PK

Band : UNII1 & 2A
 Operation Mode: 802.11 ac_VHT160
 Transfer MCS Index: 0
 Operating Frequency 5250 MHz
 Channel No. 50 Ch

Frequency [MHz]	Measured Value [dBμV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
5150	47.75	13.82	H	61.57	73.98	12.41	PK
5150	37.43	13.82	H	51.25	53.98	2.73	AV
5150	46.02	13.82	V	59.84	73.98	14.14	PK
5150	36.55	13.82	V	50.37	53.98	3.61	AV

Band : UNII1 & 2A
 Operation Mode: 802.11 ac_VHT160
 Transfer MCS Index: 0
 Operating Frequency 5250 MHz
 Channel No. 50 Ch

Frequency [MHz]	Measured Value [dBμV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
5350	46.28	14.20	H	60.48	73.98	13.50	PK
5350	35.23	14.20	H	49.43	53.98	4.55	AV
5350	45.26	14.20	V	59.46	73.98	14.52	PK
5350	34.75	14.20	V	48.95	53.98	5.03	AV

Band :	UNII 2C
Operation Mode:	802.11 ac_VHT160
Transfer MCS Index:	0
Operating Frequency	5570 MHz
Channel No.	114 Ch

Frequency [MHz]	Measured Value [dB μ V]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
5460	46.66	14.76	H	61.42	73.98	12.56	PK
5460	35.79	14.76	H	50.55	53.98	3.43	AV
5470	45.79	15.02	H	60.81	68.20	7.39	PK
5460	45.59	14.76	V	60.35	73.98	13.63	PK
5460	35.18	14.76	V	49.94	53.98	4.04	AV
5470	44.19	15.02	V	59.21	68.20	8.99	PK

Half Open Mode

Band : UNII 1
 Operation Mode: 802.11 ac_VHT40
 Transfer MCS Index: 0
 Operating Frequency 5190 MHz
 Channel No. 38 Ch

Frequency [MHz]	Measured Value [dBμV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
5150	48.46	13.82	H	62.28	73.98	11.70	PK
5150	35.51	13.82	H	49.33	53.98	4.65	AV
5150	47.92	13.82	V	61.74	73.98	12.24	PK
5150	34.22	13.82	V	48.04	53.98	5.94	AV

Band : UNII 2A
 Operation Mode: 802.11 ac_VHT40
 Transfer MCS Index: 0
 Operating Frequency 5310 MHz
 Channel No. 62 Ch

Frequency [MHz]	Measured Value [dBμV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
5350	48.78	14.20	H	62.98	73.98	11.00	PK
5350	35.27	14.20	H	49.47	53.98	4.51	AV
5350	47.66	14.20	V	61.86	73.98	12.12	PK
5350	34.05	14.20	V	48.25	53.98	5.73	AV

Band :	UNII 2C
Operation Mode:	802.11 ac_VHT40
Transfer MCS Index:	0
Operating Frequency	5510 MHz
Channel No.	102 Ch

Frequency [MHz]	Measured Value [dBμV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
5460	43.27	14.76	H	58.03	73.98	15.95	PK
5460	31.67	14.76	H	46.43	53.98	7.55	AV
5470	47.24	15.02	H	62.26	68.20	5.94	PK
5460	44.54	14.76	V	59.30	73.98	14.68	PK
5460	32.05	14.76	V	46.81	53.98	7.17	AV
5470	48.07	15.02	V	63.09	68.20	5.11	PK

Band : UNII 1
 Operation Mode: 802.11 ac_VHT80
 Transfer MCS Index: 0
 Operating Frequency 5210 MHz
 Channel No. 42 Ch

Frequency [MHz]	Measured Value [dBμV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
5150	45.44	13.82	H	59.26	73.98	14.72	PK
5150	34.68	13.82	H	48.5	53.98	5.48	AV
5150	44.62	13.82	V	58.44	73.98	15.54	PK
5150	33.13	13.82	V	46.95	53.98	7.03	AV

Band : UNII 2A
 Operation Mode: 802.11 ac_VHT80
 Transfer MCS Index: 0
 Operating Frequency 5290 MHz
 Channel No. 58 Ch

Frequency [MHz]	Measured Value [dBμV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
5350	48.85	14.20	H	63.05	73.98	10.93	PK
5350	36.84	14.20	H	51.04	53.98	2.94	AV
5350	47.35	14.20	V	61.55	73.98	12.43	PK
5350	35.26	14.20	V	49.46	53.98	4.52	AV

Band :	UNII 2C
Operation Mode:	802.11 ac_VHT80
Transfer MCS Index:	0
Operating Frequency	5530 MHz
Channel No.	106 Ch

Frequency [MHz]	Measured Value [dB μ V]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
5460	44.49	14.76	H	59.25	73.98	14.73	PK
5460	33.85	14.76	H	48.61	53.98	5.37	AV
5470	45.62	15.02	H	60.64	68.20	7.56	PK
5460	44.99	14.76	V	59.75	73.98	14.23	PK
5460	34.07	14.76	V	48.83	53.98	5.15	AV
5470	47.21	15.02	V	62.23	68.20	5.97	PK

Band : UNII1 & 2A
 Operation Mode: 802.11 ac_VHT160
 Transfer MCS Index: 0
 Operating Frequency 5250 MHz
 Channel No. 50 Ch

Frequency [MHz]	Measured Value [dBμV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
5150	48.42	13.82	H	62.24	73.98	11.74	PK
5150	37.81	13.82	H	51.63	53.98	2.35	AV
5150	47.45	13.82	V	61.27	73.98	12.71	PK
5150	36.43	13.82	V	50.25	53.98	3.73	AV

Band : UNII1 & 2A
 Operation Mode: 802.11 ac_VHT160
 Transfer MCS Index: 0
 Operating Frequency 5250 MHz
 Channel No. 50 Ch

Frequency [MHz]	Measured Value [dBμV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
5350	45.47	14.20	H	59.67	73.98	14.31	PK
5350	34.19	14.20	H	48.39	53.98	5.59	AV
5350	44.89	14.20	V	59.09	73.98	14.89	PK
5350	32.24	14.20	V	46.44	53.98	7.54	AV

Band :	UNII 2C
Operation Mode:	802.11 ac_VHT160
Transfer MCS Index:	0
Operating Frequency	5570 MHz
Channel No.	114 Ch

Frequency [MHz]	Measured Value [dBμV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
5460	44.89	14.76	H	59.65	73.98	14.33	PK
5460	34.31	14.76	H	49.07	53.98	4.91	AV
5470	43.42	15.02	H	58.44	68.20	9.76	PK
5460	45.46	14.76	V	60.22	73.98	13.76	PK
5460	34.92	14.76	V	49.68	53.98	4.30	AV
5470	44.50	15.02	V	59.52	68.20	8.68	PK

Closed Mode

Band :	UNII 1
Operation Mode:	802.11 ac_VHT40
Transfer MCS Index:	0
Operating Frequency	5190 MHz
Channel No.	38 Ch

Frequency [MHz]	Measured Value [dB μ V]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
5150	51.68	13.82	H	65.50	73.98	8.48	PK
5150	37.73	13.82	H	51.55	53.98	2.43	AV
5150	49.32	13.82	V	63.14	73.98	10.84	PK
5150	36.05	13.82	V	49.87	53.98	4.11	AV

Band :	UNII 2A
Operation Mode:	802.11 ac_VHT40
Transfer MCS Index:	0
Operating Frequency	5310 MHz
Channel No.	62 Ch

Frequency [MHz]	Measured Value [dB μ V]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
5350	47.15	14.20	H	61.35	73.98	12.63	PK
5350	33.87	14.20	H	48.07	53.98	5.91	AV
5350	45.29	14.20	V	59.49	73.98	14.49	PK
5350	32.52	14.20	V	46.72	53.98	7.26	AV

Band :	UNII 2C
Operation Mode:	802.11 ac_VHT40
Transfer MCS Index:	0
Operating Frequency	5510 MHz
Channel No.	102 Ch

Frequency [MHz]	Measured Value [dBμV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
5460	43.91	14.76	H	58.67	73.98	15.31	PK
5460	32.14	14.76	H	46.90	53.98	7.08	AV
5470	48.32	15.02	H	63.34	68.20	4.86	PK
5460	42.74	14.76	V	57.50	73.98	16.48	PK
5460	31.72	14.76	V	46.48	53.98	7.50	AV
5470	47.95	15.02	V	62.97	68.20	5.23	PK

Band : UNII1 & 2A
 Operation Mode: 802.11 ac_VHT160
 Transfer MCS Index: 0
 Operating Frequency 5250 MHz
 Channel No. 50 Ch

Frequency [MHz]	Measured Value [dBμV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
5150	47.86	13.82	H	61.68	73.98	12.30	PK
5150	37.21	13.82	H	51.03	53.98	2.95	AV
5150	46.26	13.82	V	60.08	73.98	13.90	PK
5150	35.15	13.82	V	48.97	53.98	5.01	AV

Band : UNII1 & 2A
 Operation Mode: 802.11 ac_VHT160
 Transfer MCS Index: 0
 Operating Frequency 5250 MHz
 Channel No. 50 Ch

Frequency [MHz]	Measured Value [dBμV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
5350	45.86	14.20	H	60.06	73.98	13.92	PK
5350	33.99	14.20	H	48.19	53.98	5.79	AV
5350	43.60	14.20	V	57.80	73.98	16.18	PK
5350	32.87	14.20	V	47.07	53.98	6.91	AV

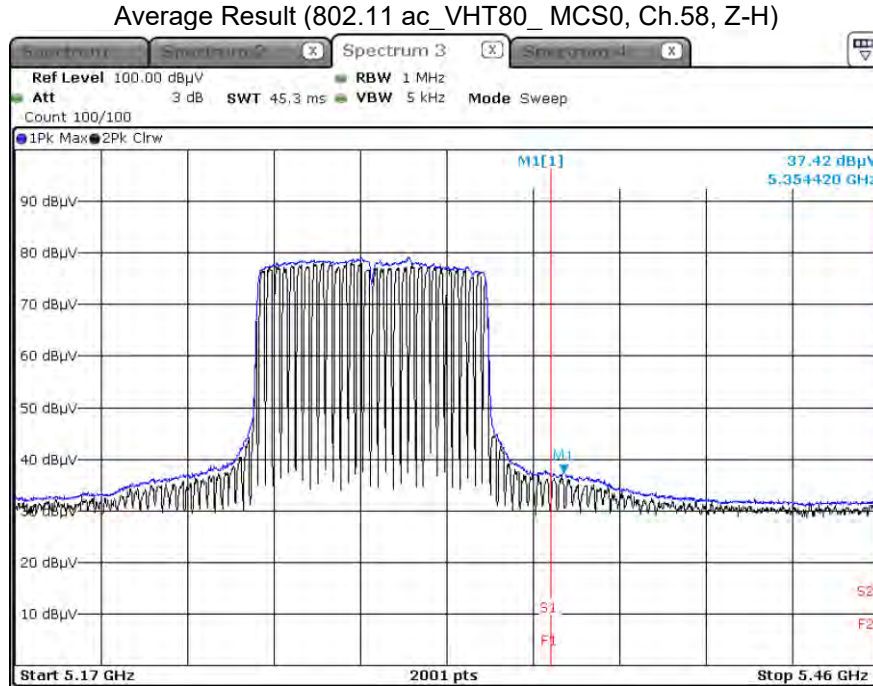
Band :	UNII 2C
Operation Mode:	802.11 ac_VHT160
Transfer MCS Index:	0
Operating Frequency	5570 MHz
Channel No.	114 Ch

Frequency [MHz]	Measured Value [dB μ V]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
5460	47.57	14.76	H	62.33	73.98	11.65	PK
5460	36.40	14.76	H	51.16	53.98	2.82	AV
5470	46.66	15.02	H	61.68	68.20	6.52	PK
5460	46.88	14.76	V	61.64	73.98	12.34	PK
5460	35.98	14.76	V	50.74	53.98	3.24	AV
5470	45.87	15.02	V	60.89	68.20	7.31	PK

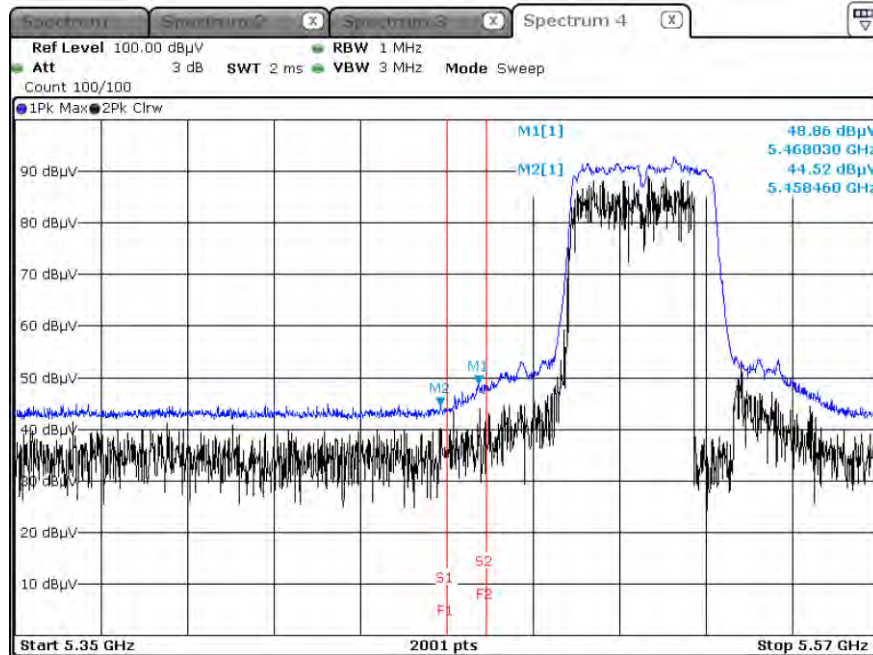
[Ant.1&Ant.2_MIMO(CDD)]

☑ Test Plots(UNII 1, 2A, 2C)

Open Mode

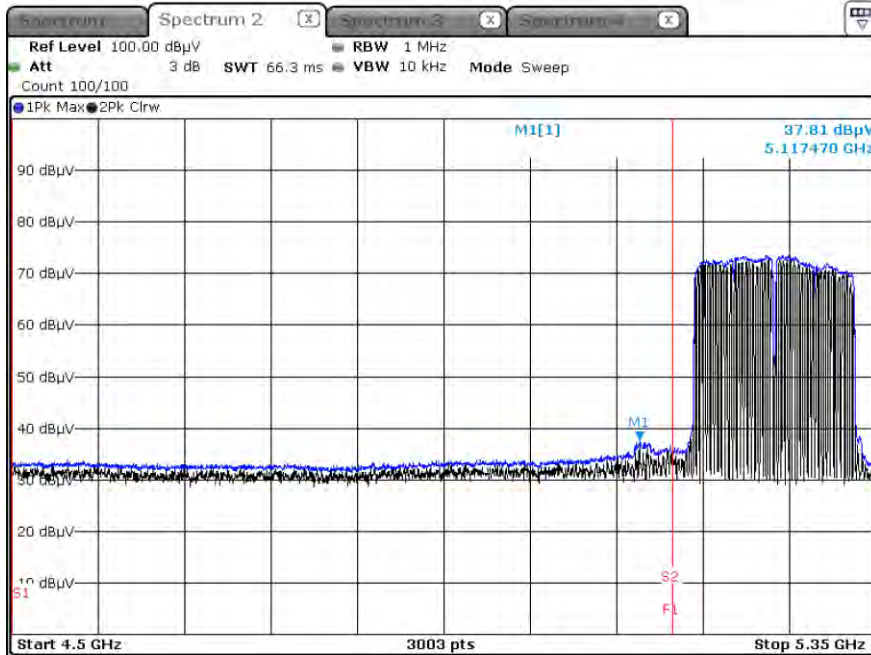


Peak Result (802.11 ac_VHT40_MCS0, Ch.102, Z-H)

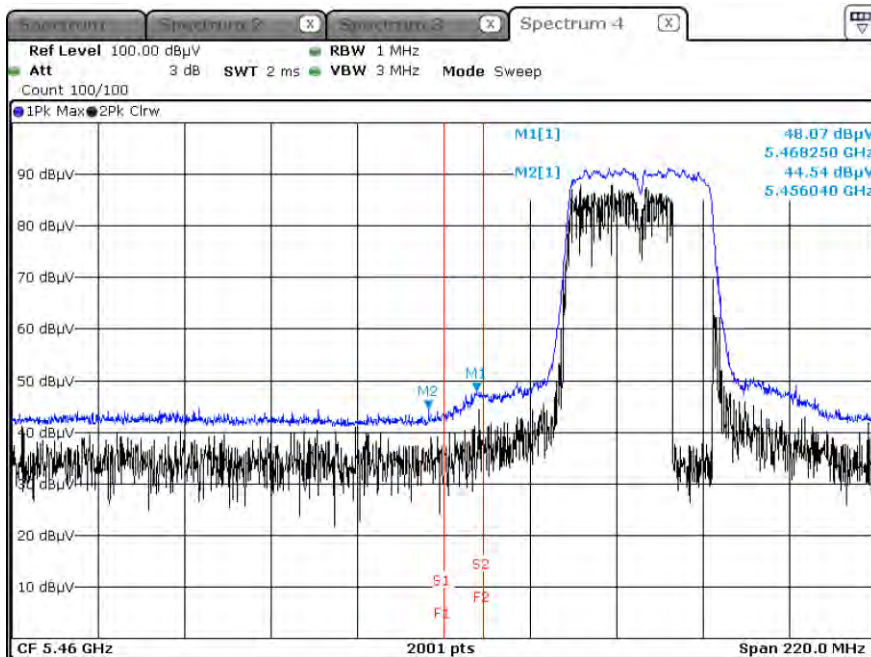


Half Open Mode

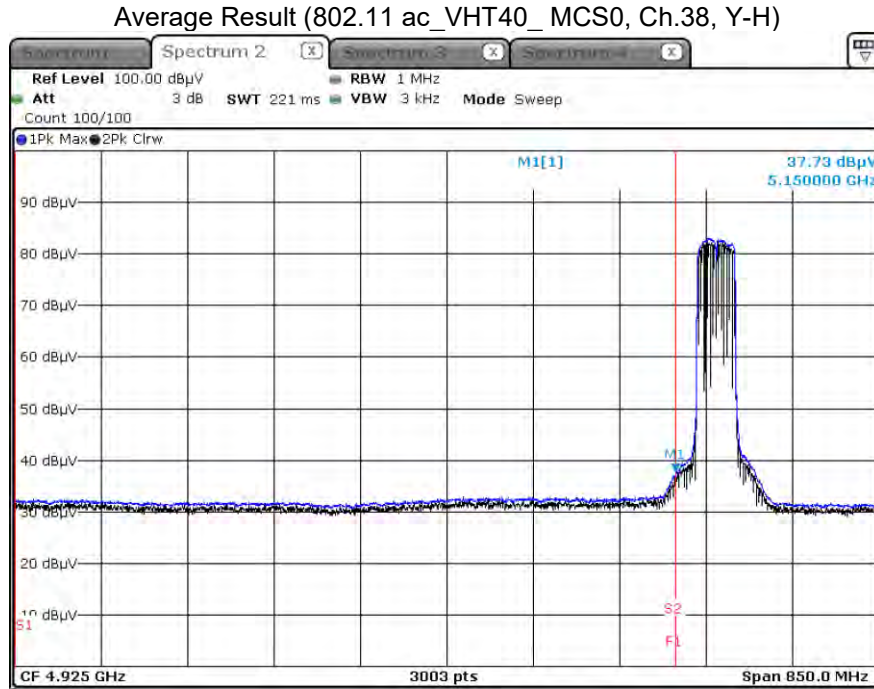
Average Result (802.11 ac_VHT160_MCS0, Ch.50, Y-H)



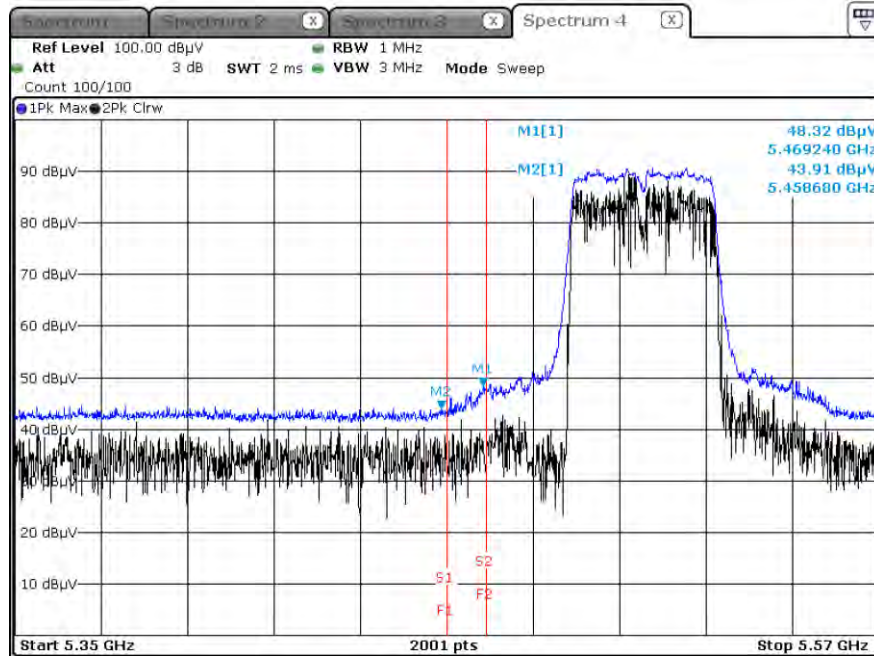
Peak Result (802.11 ac_VHT40_MCS0, Ch.102, Y-V)



Closed Mode



Peak Result (802.11 ac_VHT40_MCS0, Ch.102, Z-H)



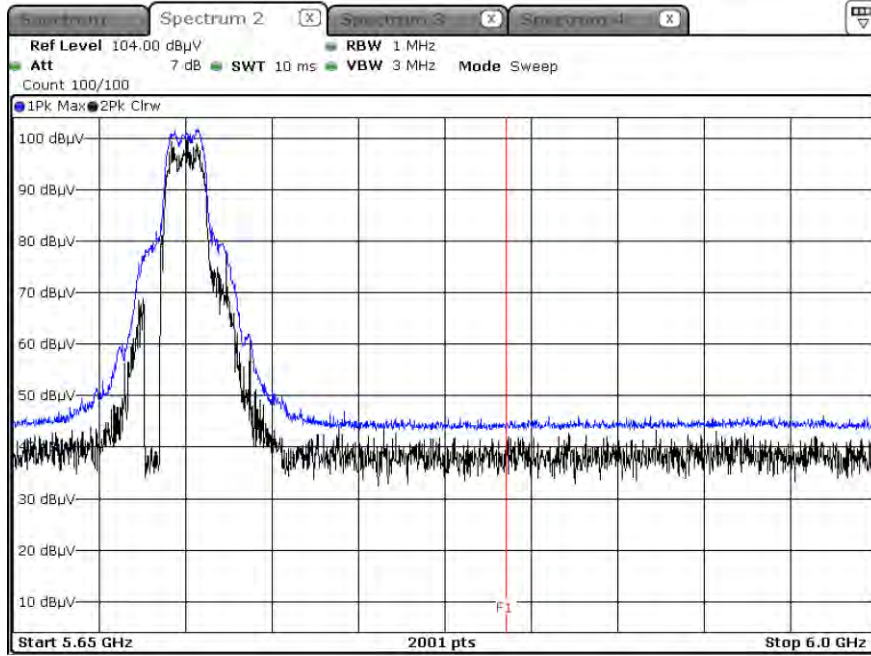
Note:

Only the worst case plots for Radiated Restricted Band Edge.

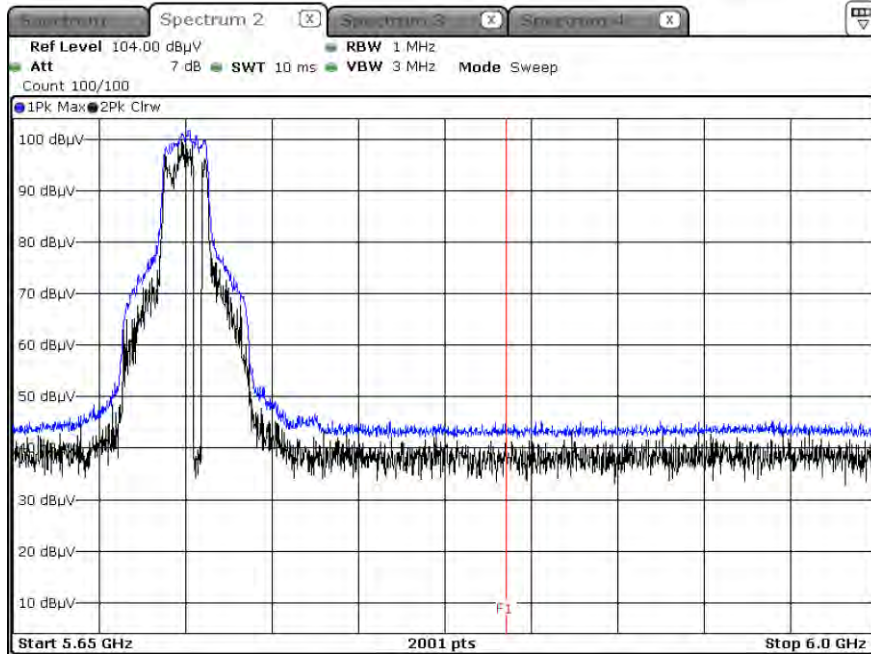
▣ Test Plots(Straddle Channel)

Open Mode

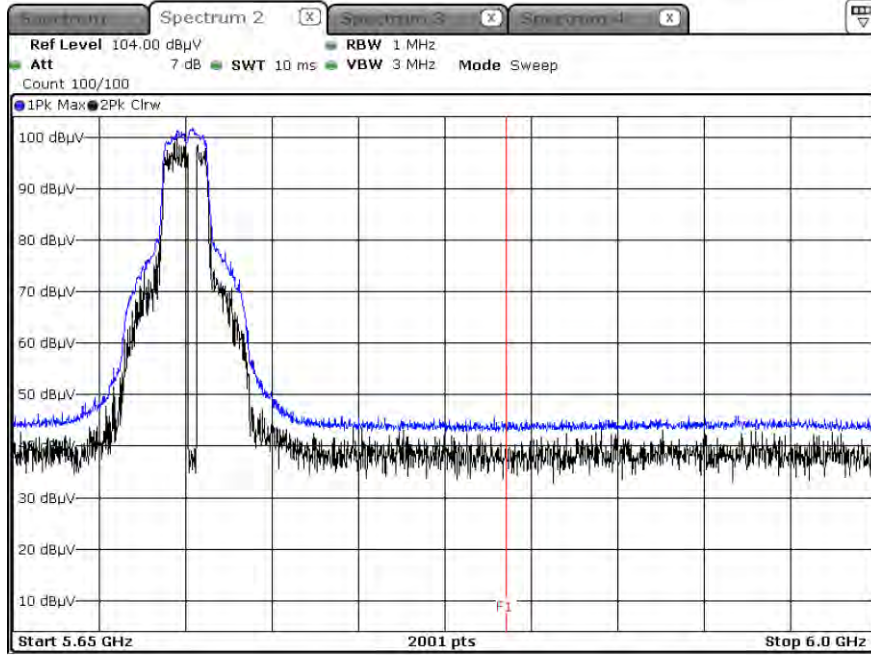
Peak Result (802.11a, Ch.144, X-H)



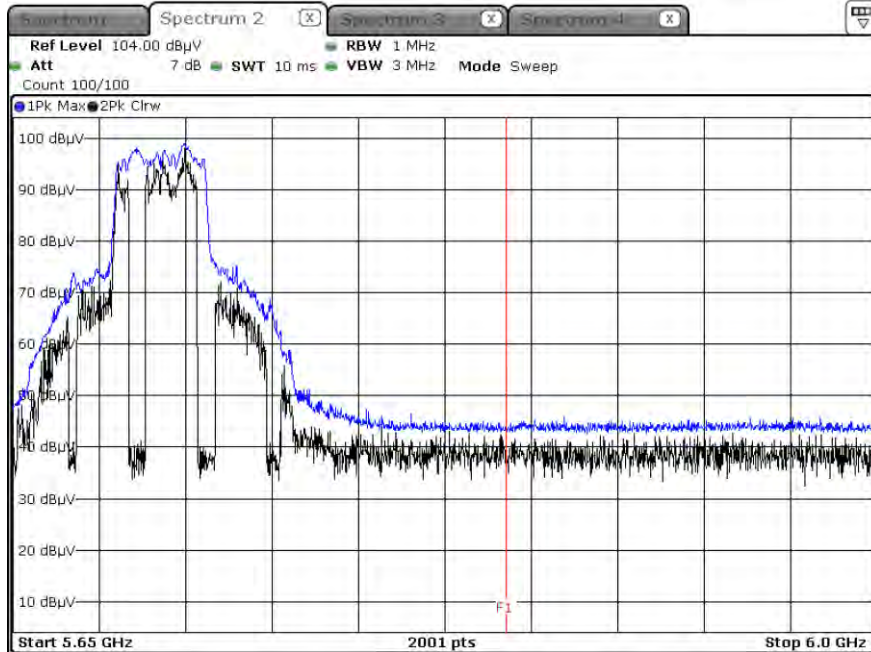
Peak Result (802.11n_HT20, Ch.144, X-H)



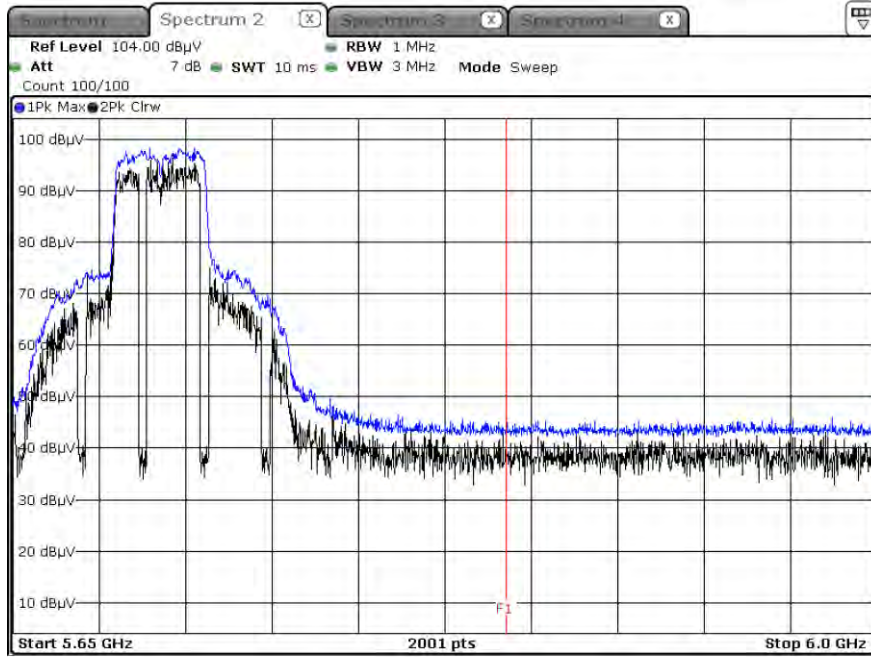
Peak Result (802.11ac_VHT20, Ch.144, X-H)



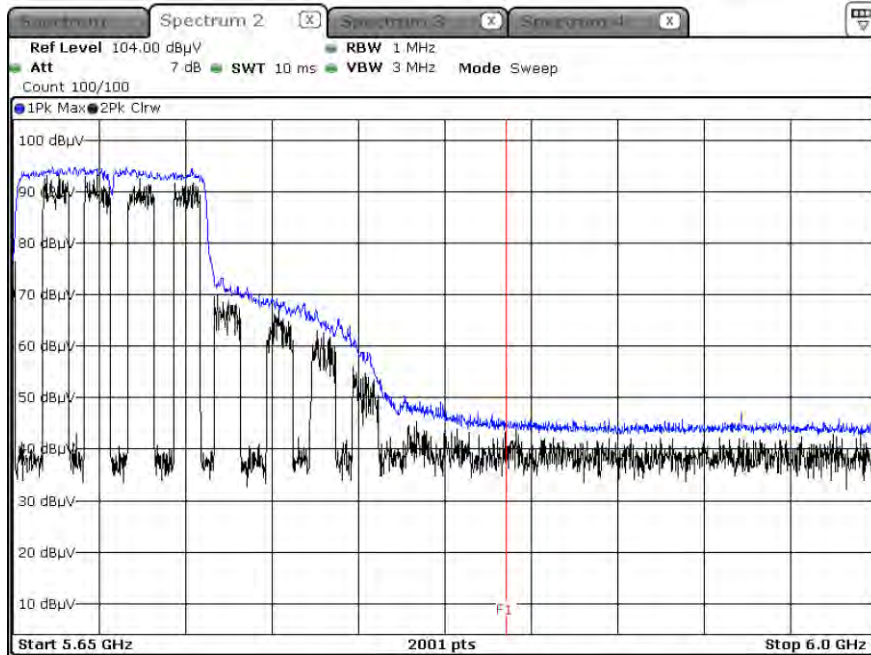
Peak Result (802.11n_HT40, Ch.142, X-H)



Peak Result (802.11ac_VHT40, Ch.142, X-H)



Peak Result (802.11ac_VHT80, Ch.138, X-H)

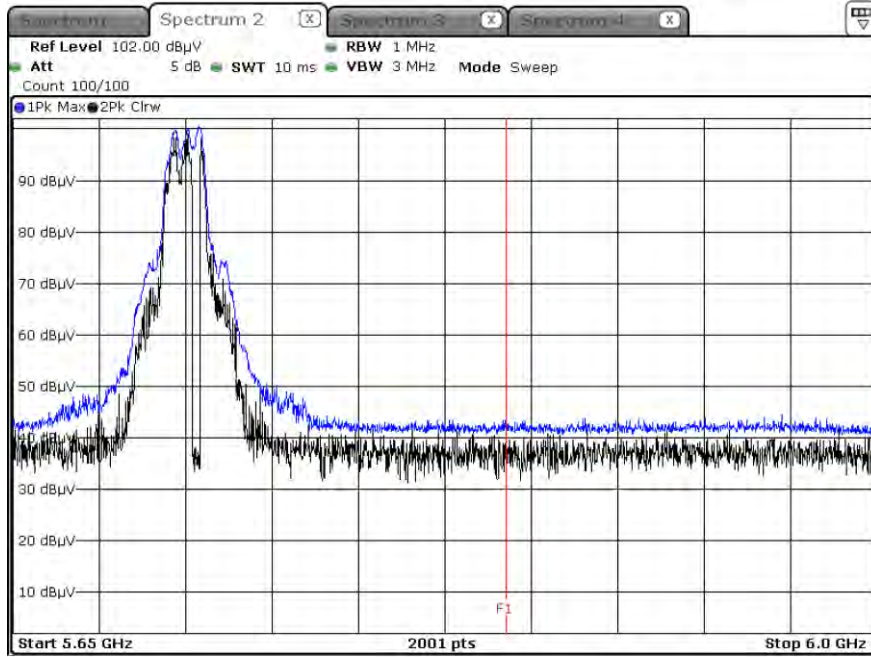


Note :

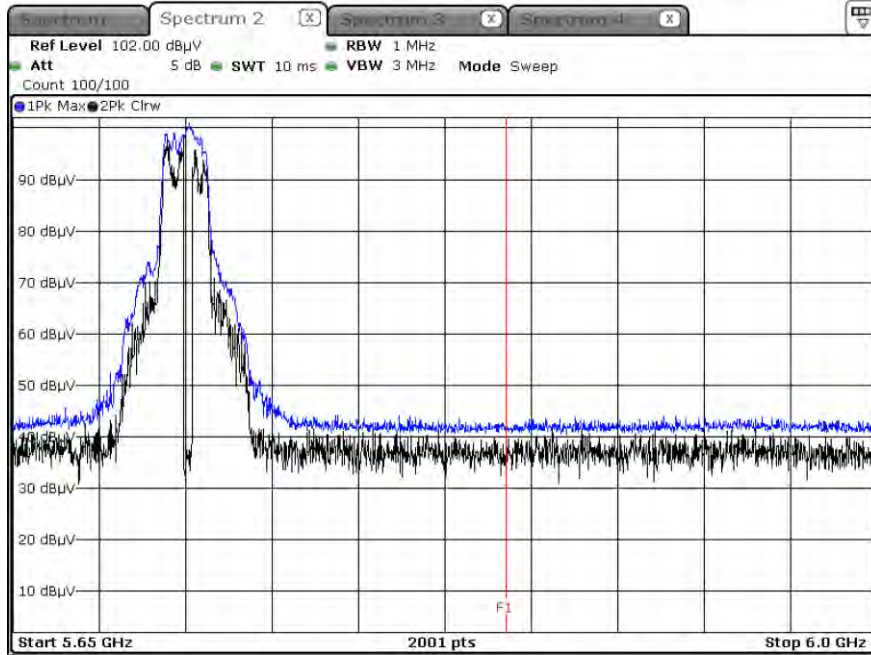
1. Only the worst case plots for Radiated Restricted Band Edge.
2. Red line : 5 850 MHz
3. Ambient Noise (Because of ambient noise, We attached only the worst plot without a data table)

Closed Mode

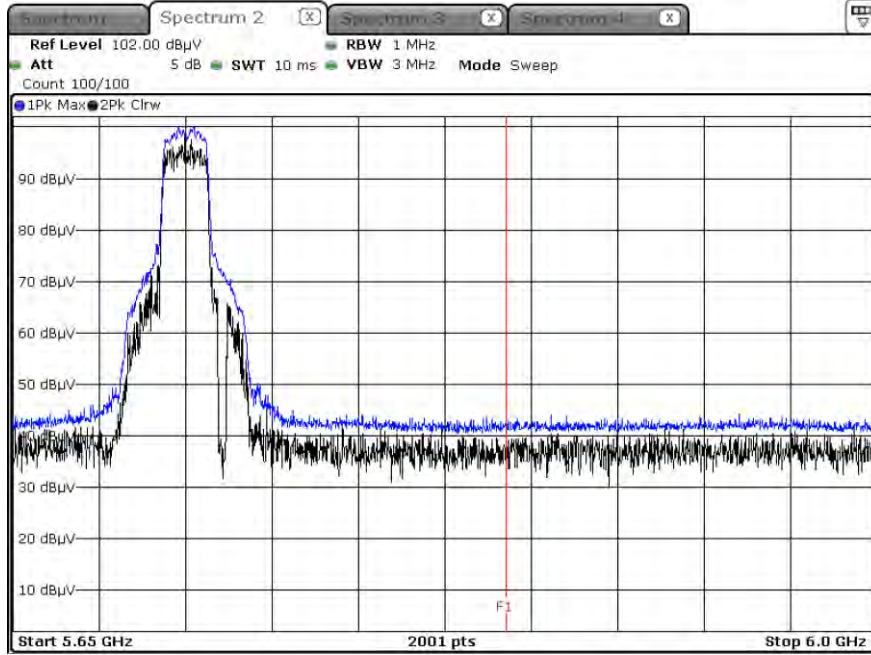
Peak Result (802.11a, Ch.144, X-H)



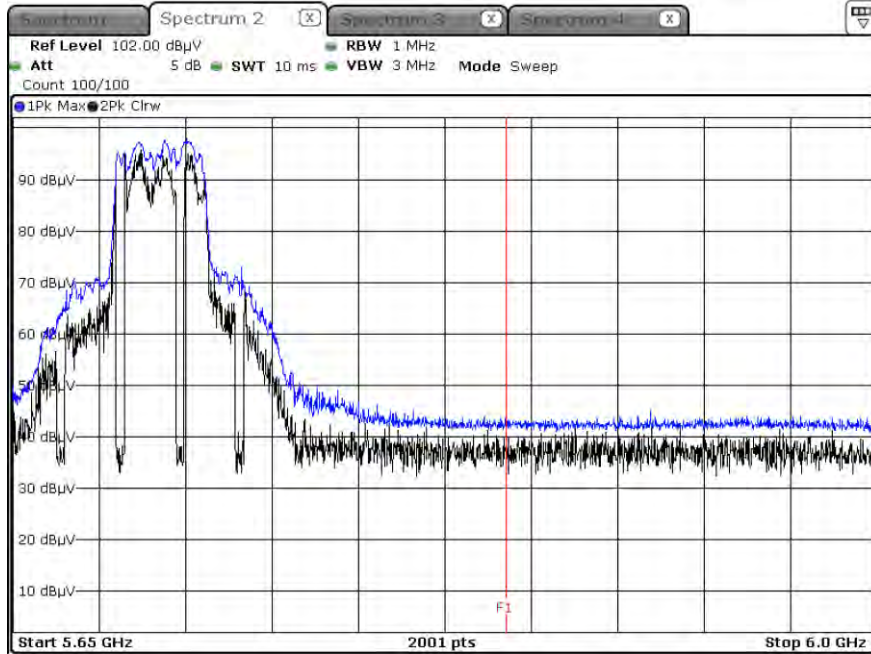
Peak Result (802.11n_HT20, Ch.144, X-H)



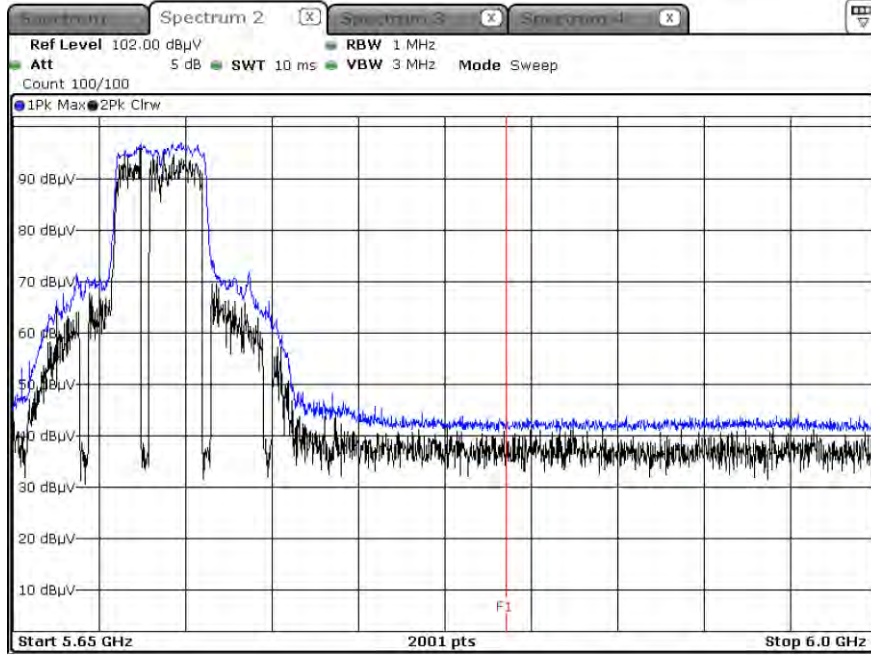
Peak Result (802.11ac_VHT20, Ch.144, X-H)



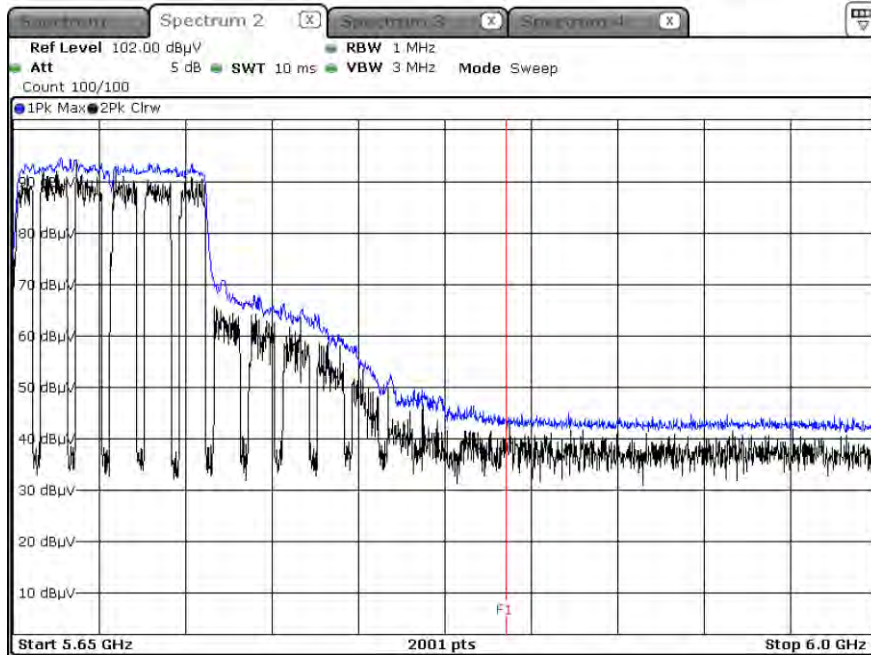
Peak Result (802.11n_HT40, Ch.142, X-H)



Peak Result (802.11ac_VHT40, Ch.142, X-H)



Peak Result (802.11ac_VHT80, Ch.138, X-H)



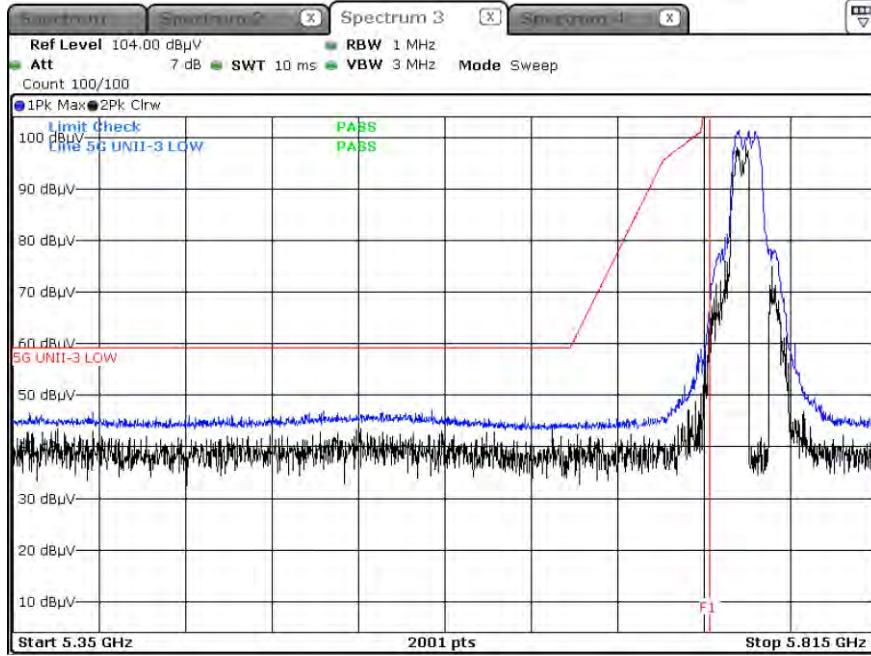
Note :

1. Only the worst case plots for Radiated Restricted Band Edge.
2. Red line : 5 850 MHz
3. Ambient Noise (Because of ambient noise, We attached only the worst plot without a data table)

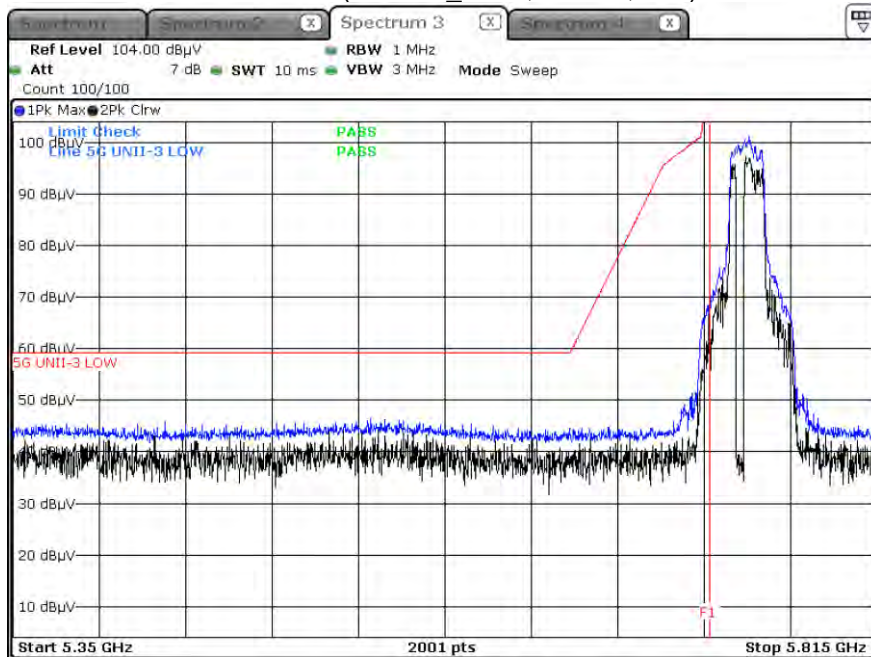
▣ Test Plots(UNII 3)

Open Mode

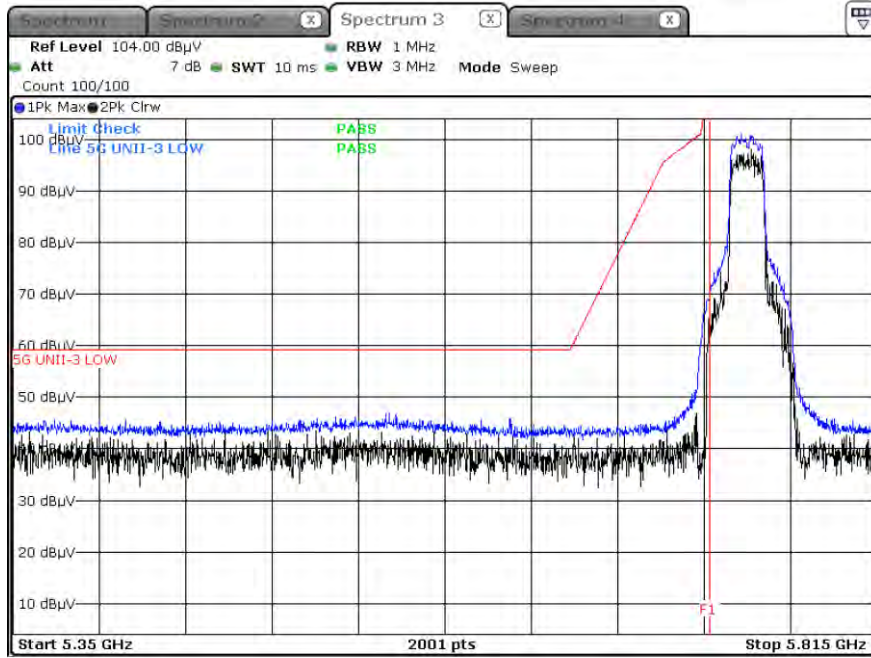
Peak Result (802.11a, Ch.149, Y-H)



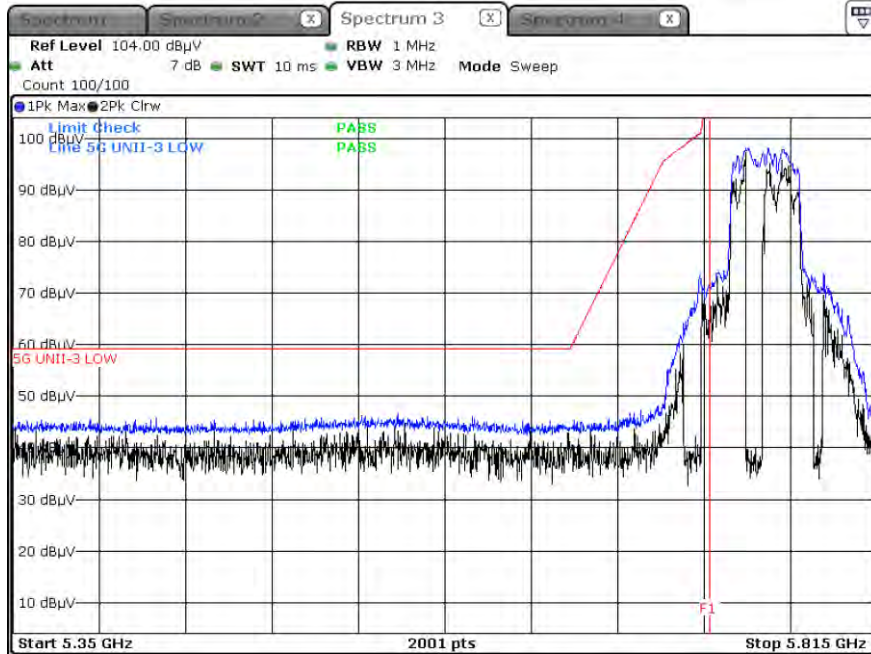
Peak Result (802.11n_HT20, Ch.149, Y-H)



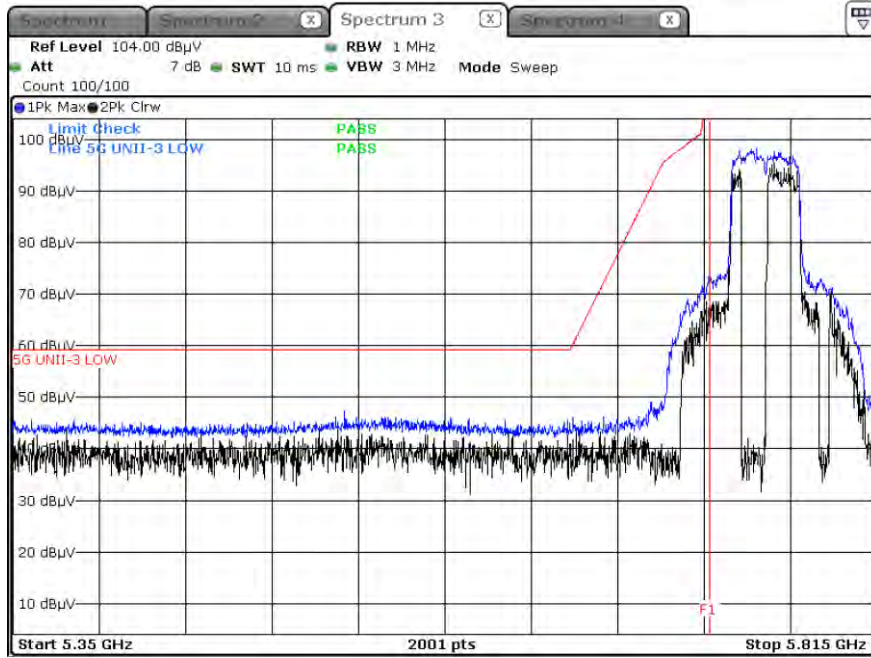
Peak Result (802.11ac_VHT20, Ch.149, Y-H)



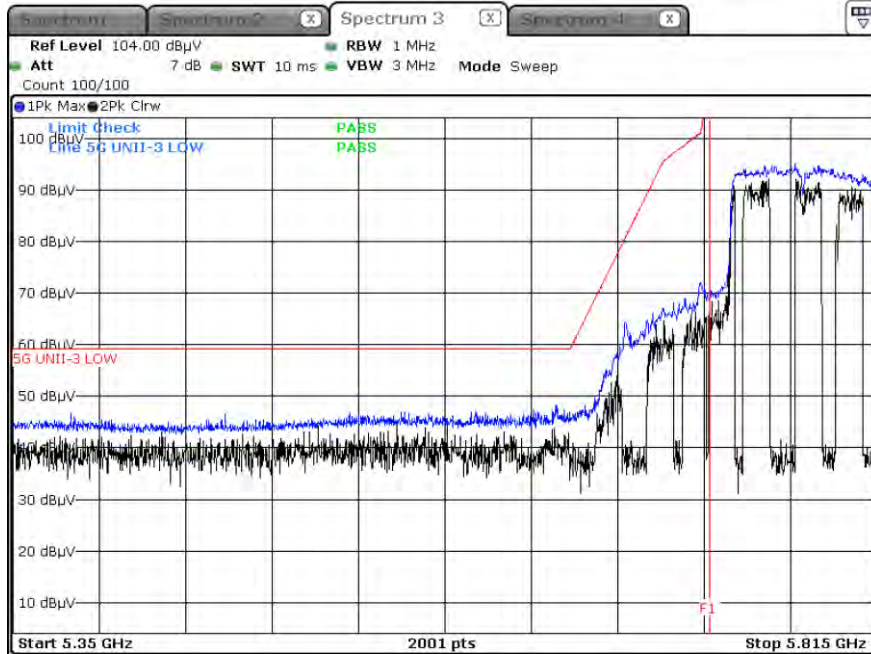
Peak Result (802.11n_HT40, Ch.151, Y-H)



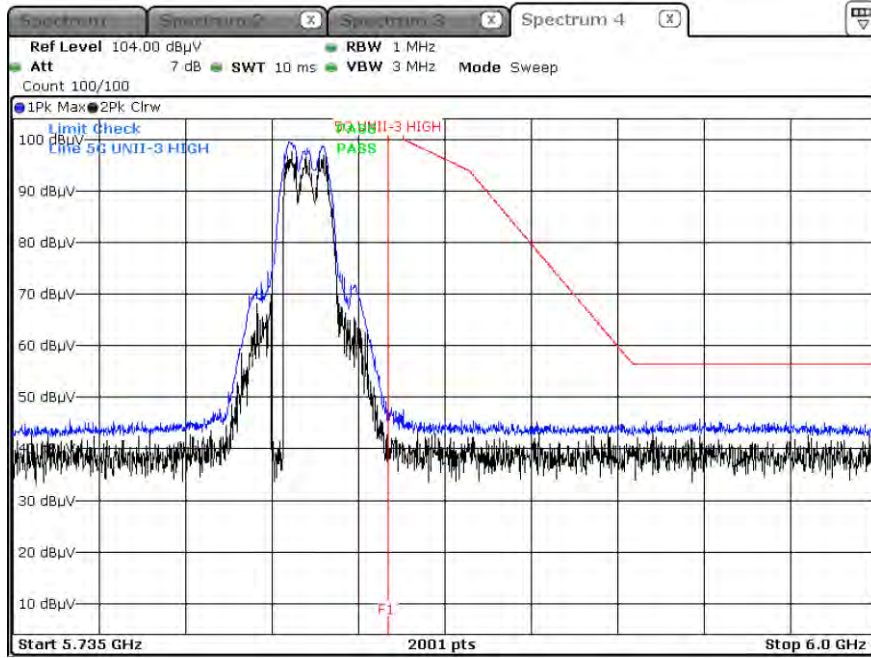
Peak Result (802.11ac_VHT40, Ch.151, Y-H)



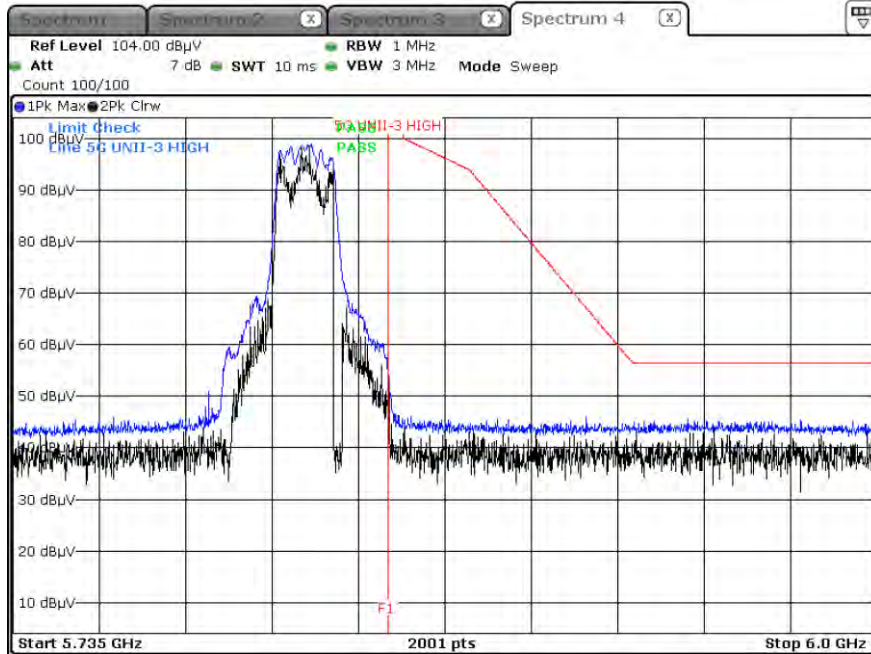
Peak Result (802.11ac_VHT80, Ch.155, Y-H)



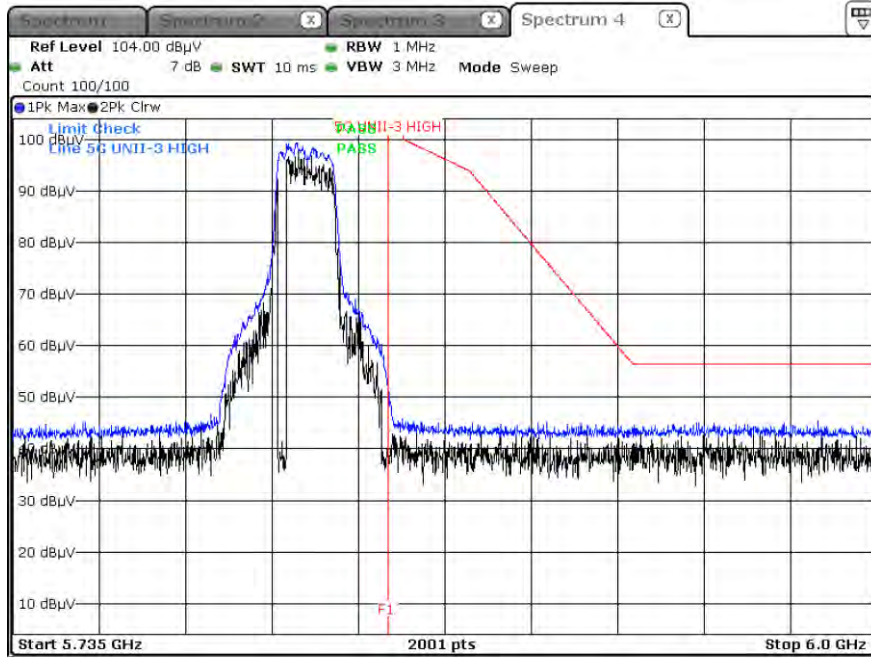
Peak Result (802.11a, Ch.165, Z-H)



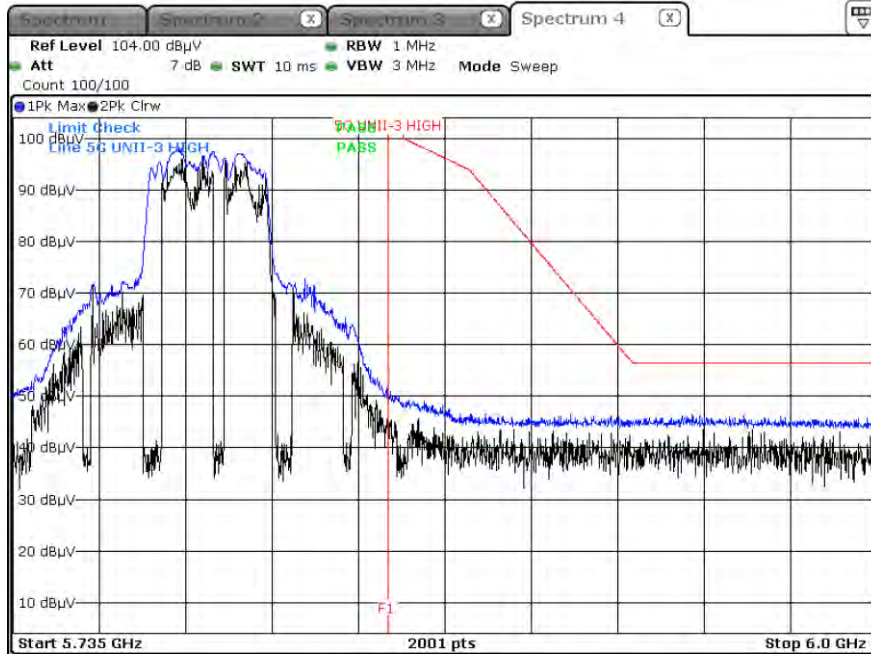
Peak Result (802.11n_HT20, Ch.165, Z-H)



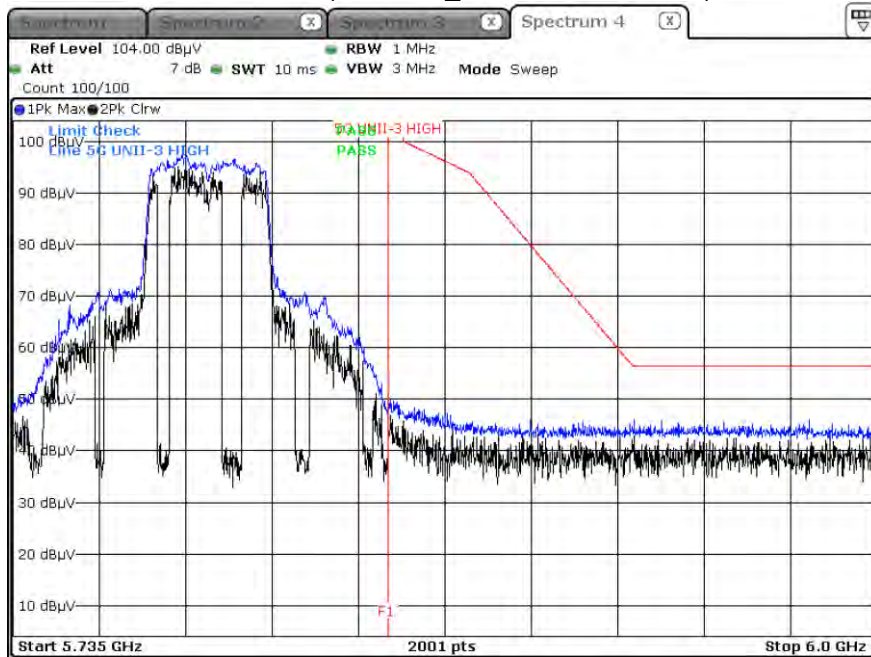
Peak Result (802.11ac_VHT20, Ch.165, Z-H)



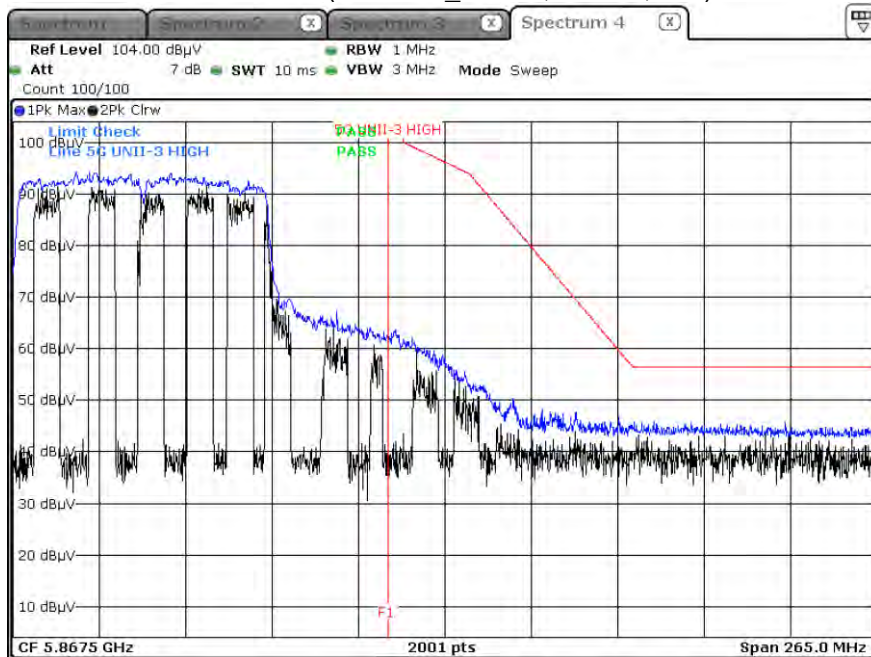
Peak Result (802.11n_HT40, Ch.159, Z-H)



Peak Result (802.11ac_VHT40, Ch.159, Z-H)



Peak Result (802.11ac_VHT80, Ch.155, Z-H)

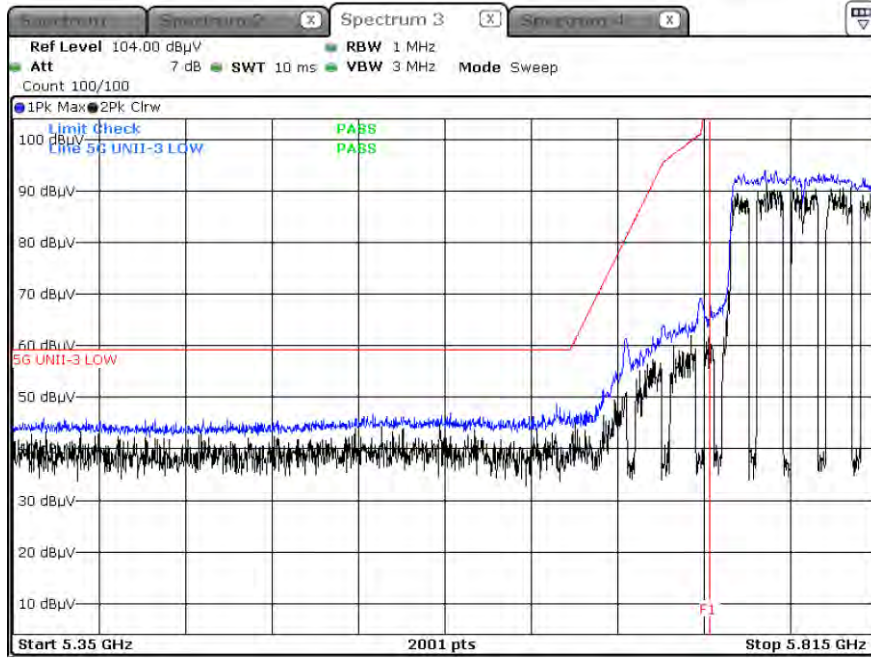


Note :

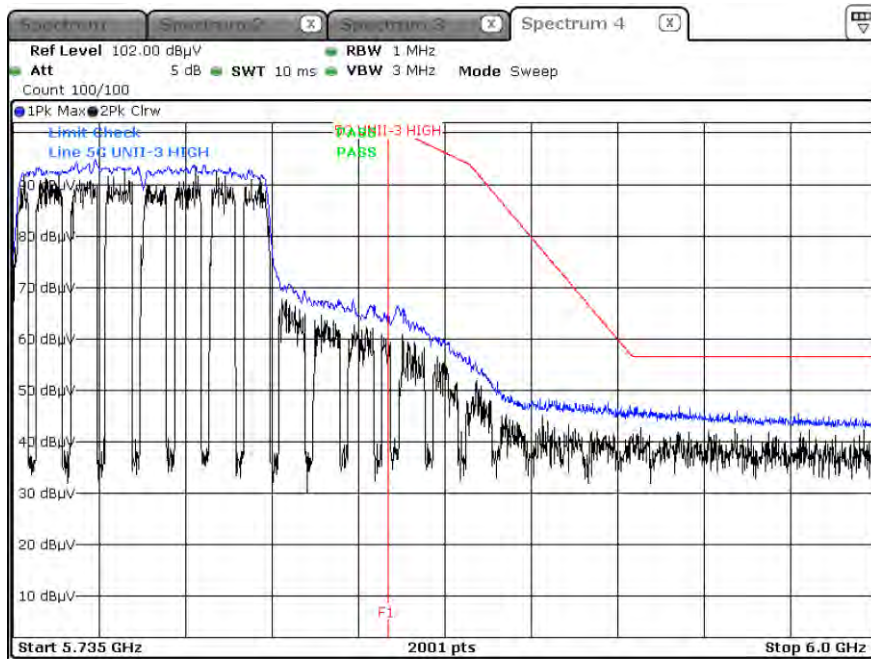
1. Only the worst case plots for U-NII-3 Out of Band e.i.r.p Emission.
2. U-NII-3 Low & High Band Edge RedLine is Final Test Limit about factor value compensation.

Closed Mode

Peak Result (802.11ac_VHT80, Ch.155, Y-H)



Peak Result (802.11ac_VHT80, Ch.155, Z-H)



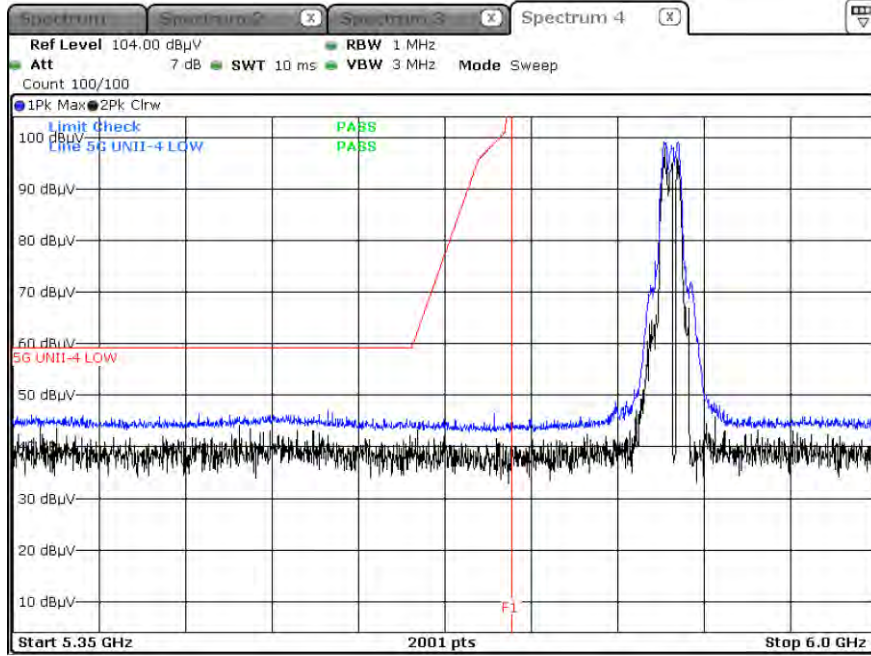
Note :

1. Only the worst case plots for U-NII-3 Out of Band e.i.r.p Emission.
2. U-NII-3 Low & High Band Edge RedLine is Final Test Limit about factor value compensation.

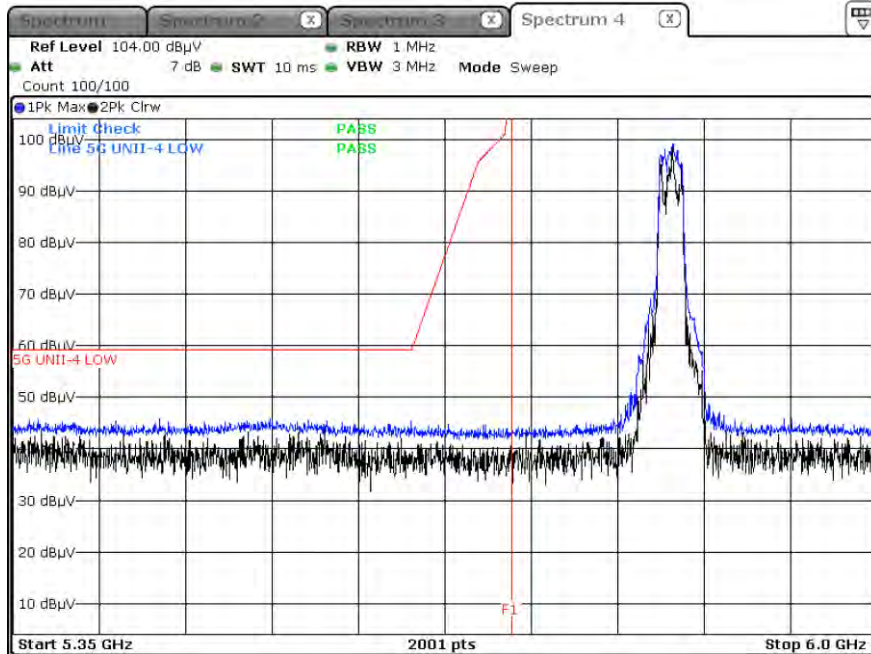
☑ Test Plots(UNII 4) – O.O.B.E

Open Mode

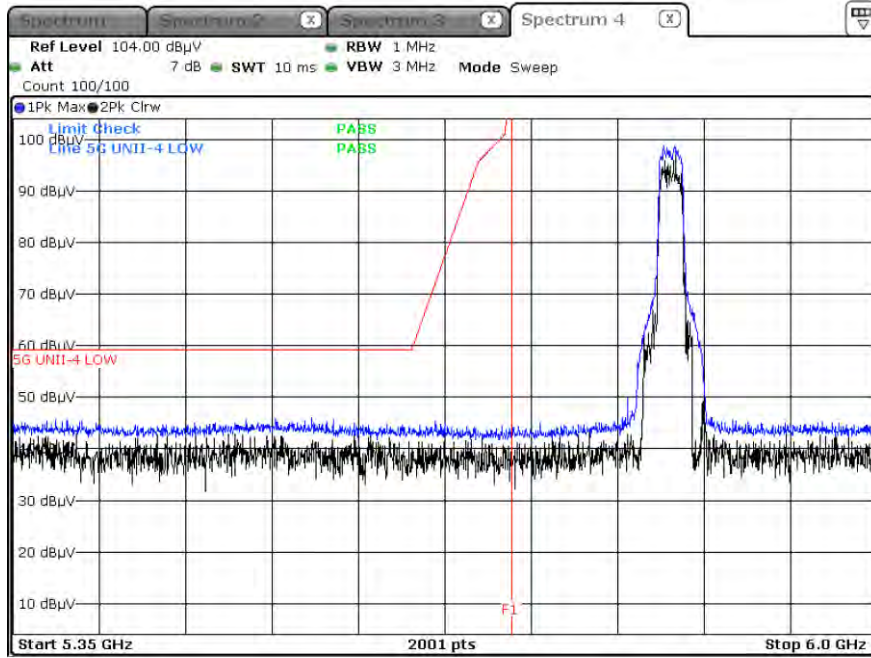
Peak Result (802.11a, Ch.169, X-H)



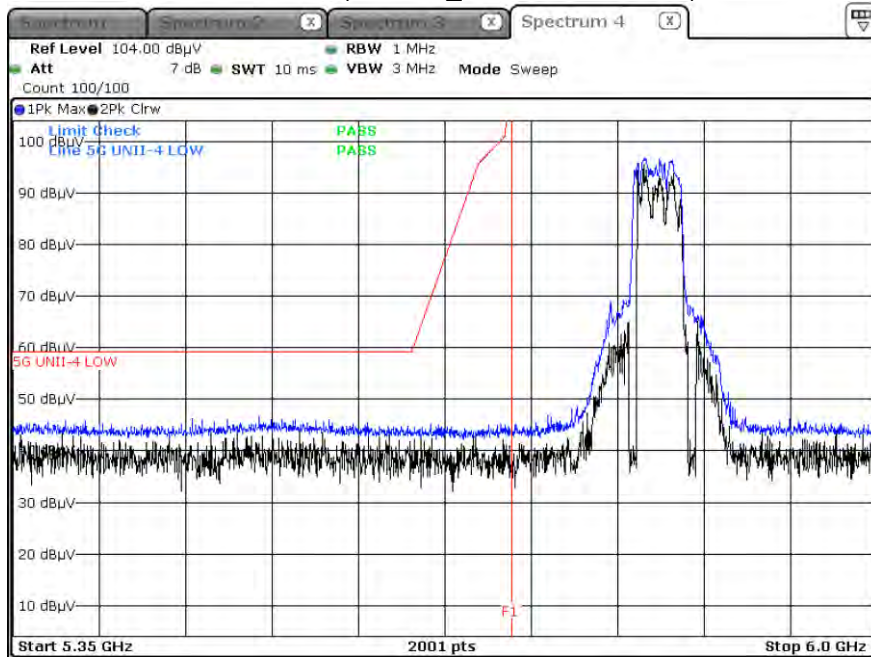
Peak Result (802.11n_HT20, Ch.169, X-H)



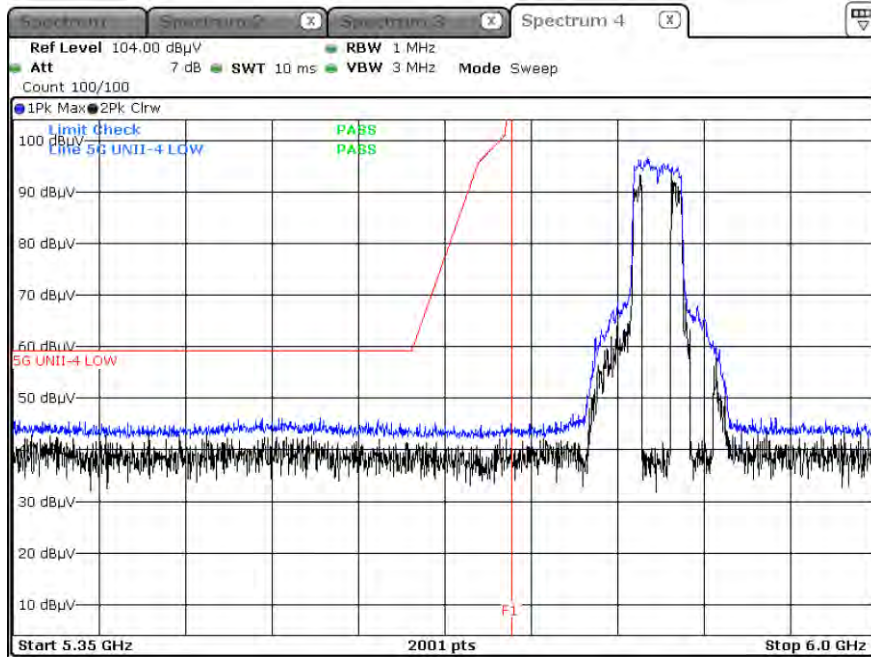
Peak Result (802.11ac_VHT20, Ch.169, X-H)



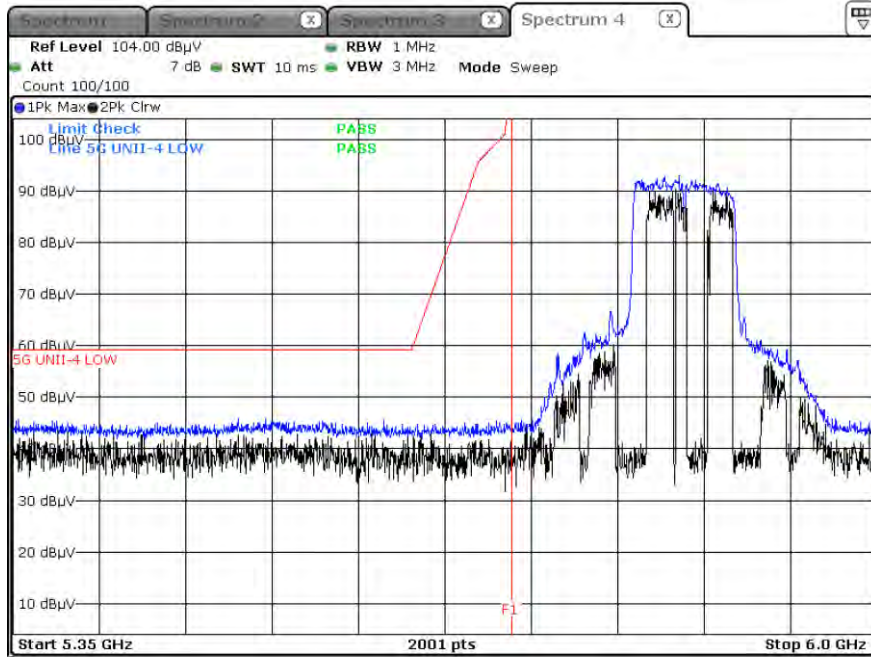
Peak Result (802.11n_HT40, Ch.167, X-H)

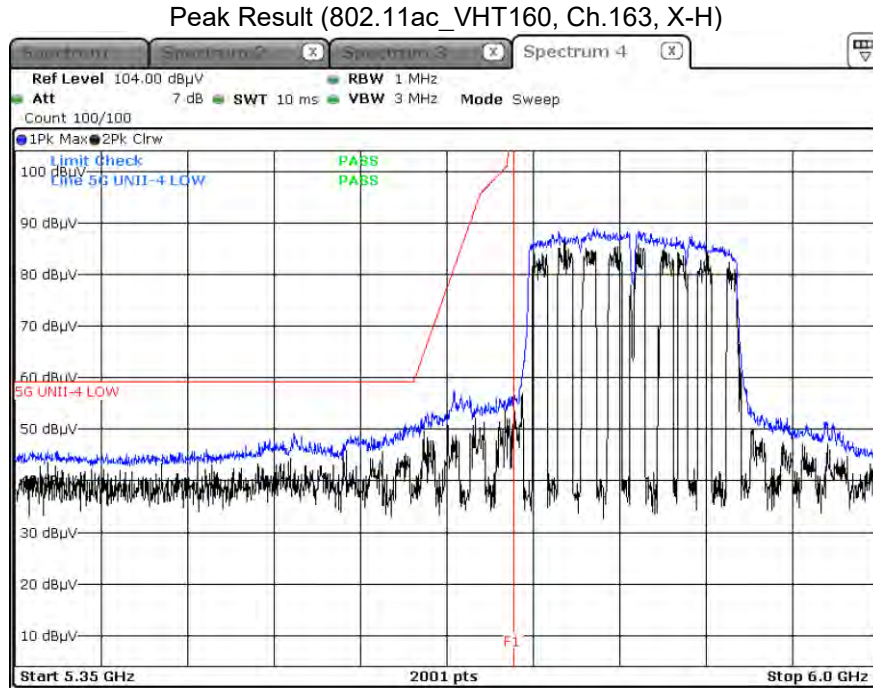


Peak Result (802.11ac_VHT40, Ch.167, X-H)



Peak Result (802.11ac_VHT80, Ch.171, X-H)

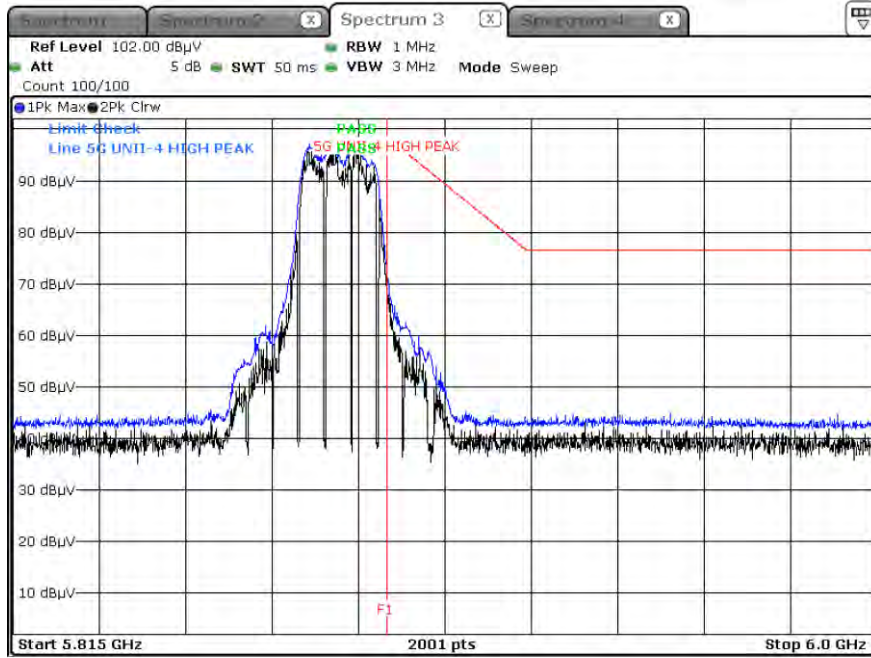




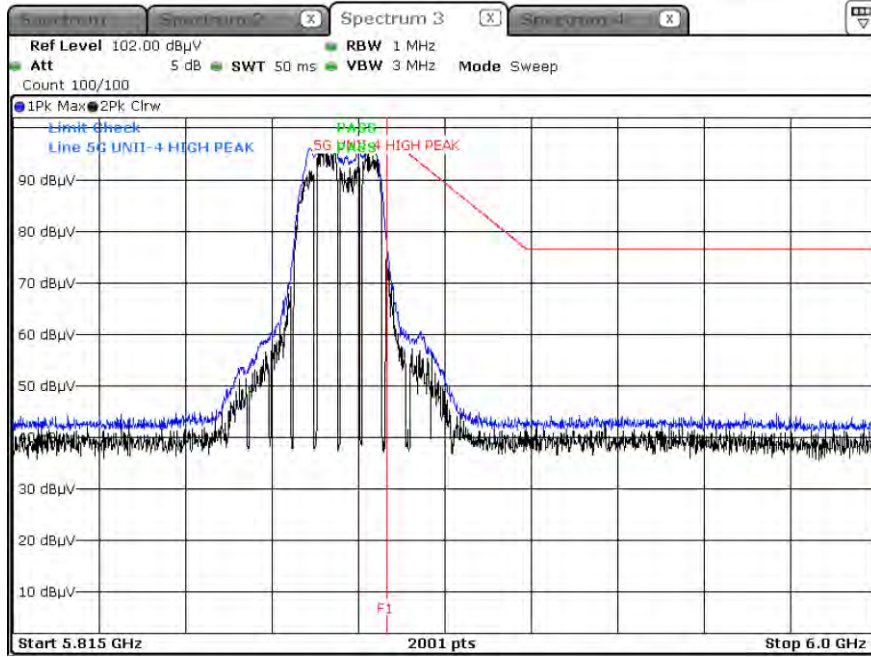
Note :

1. Only the worst case plots for U-NII-4 O.O.B.E
2. U-NII-4 Low & High O.O.B.E RedLine is Final Test Limit about factor value compensation.

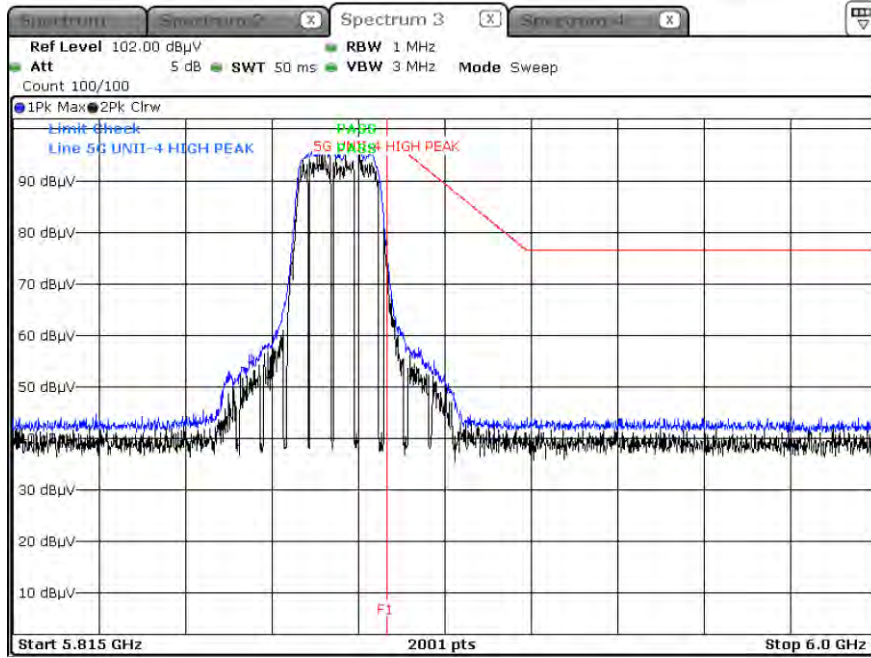
Peak Result (802.11a, Ch.177, X-H)



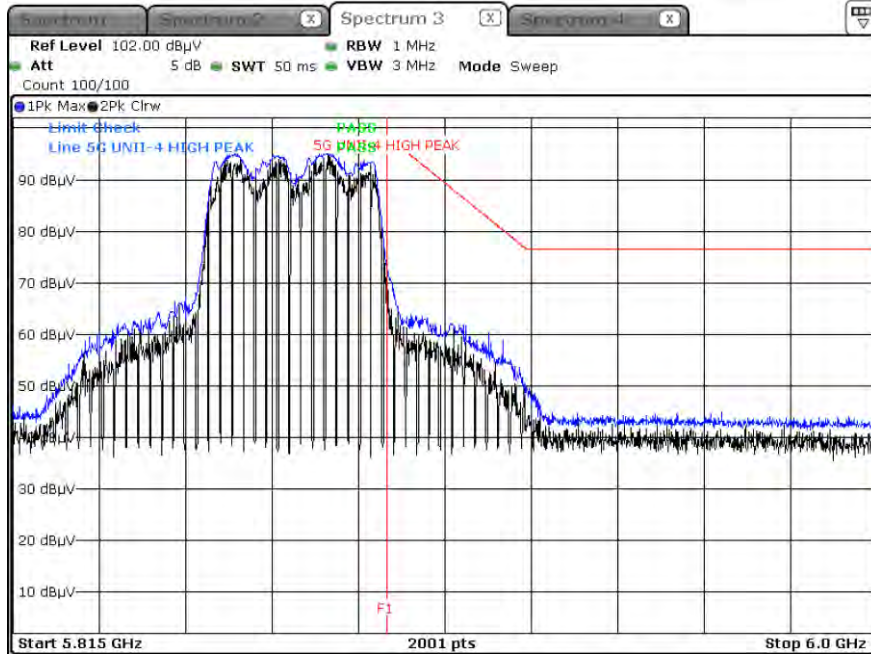
Peak Result (802.11n_HT20, Ch.177, X-H)



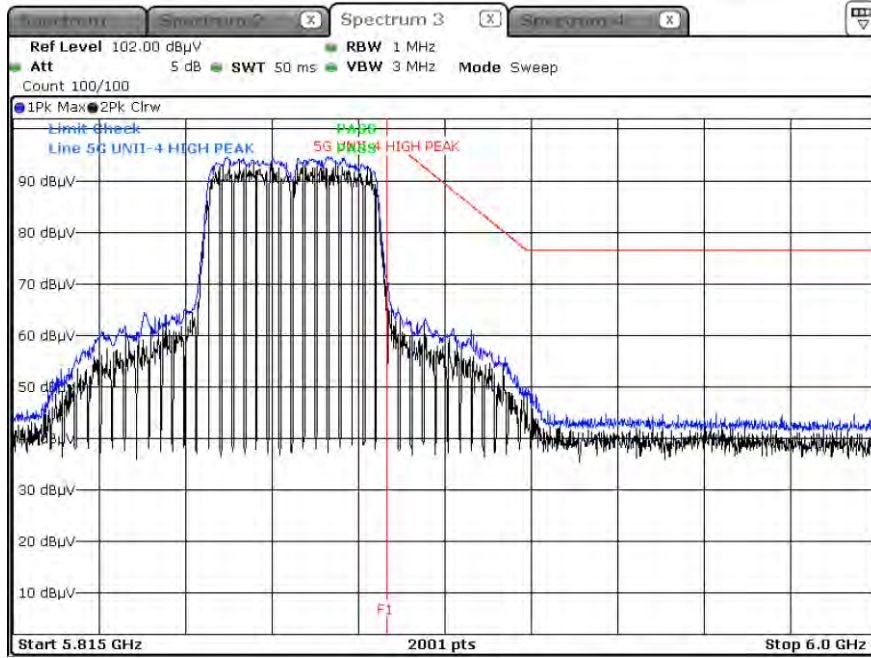
Peak Result (802.11ac_VHT20, Ch.177, X-H)



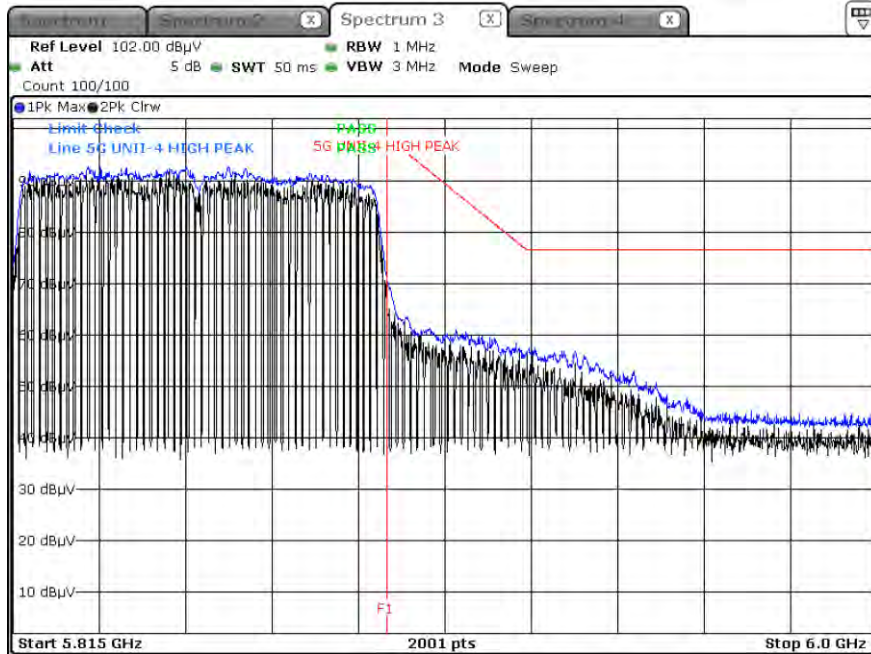
Peak Result (802.11n_HT40, Ch.175, X-H)

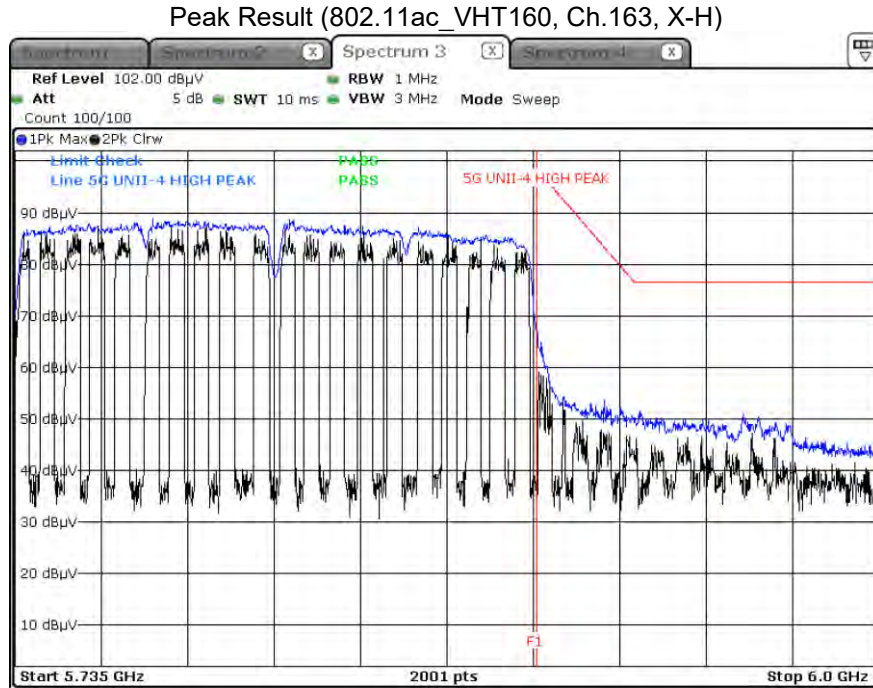


Peak Result (802.11ac_VHT40, Ch.175, X-H)



Peak Result (802.11ac_VHT80, Ch.171, X-H)

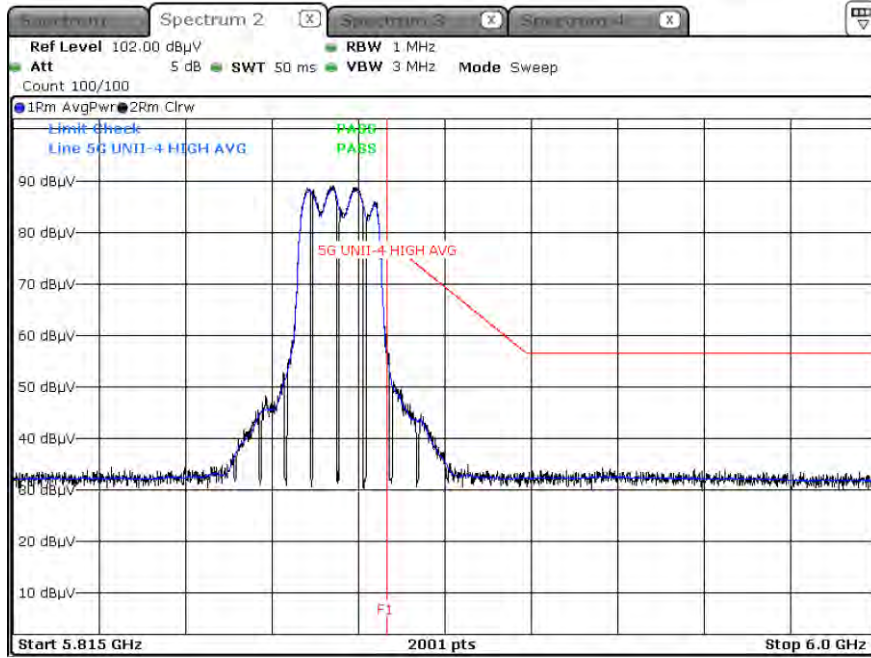




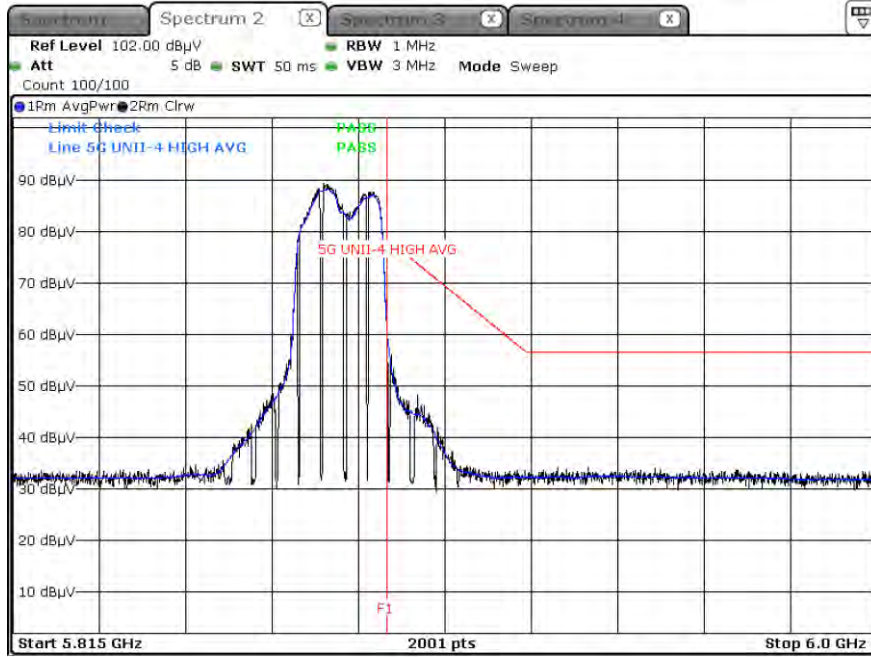
Note :

1. Only the worst case plots for U-NII-4 O.O.B.E
2. U-NII-4 Low & High O.O.B.E RedLine is Final Test Limit(Peak) about factor value compensation.

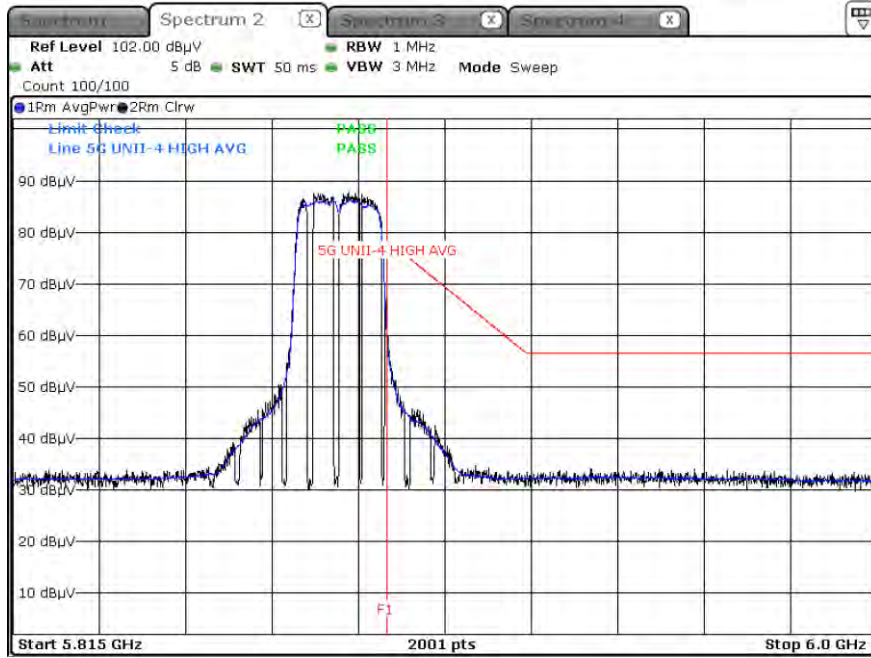
Average Result (802.11a, Ch.177, X-H)



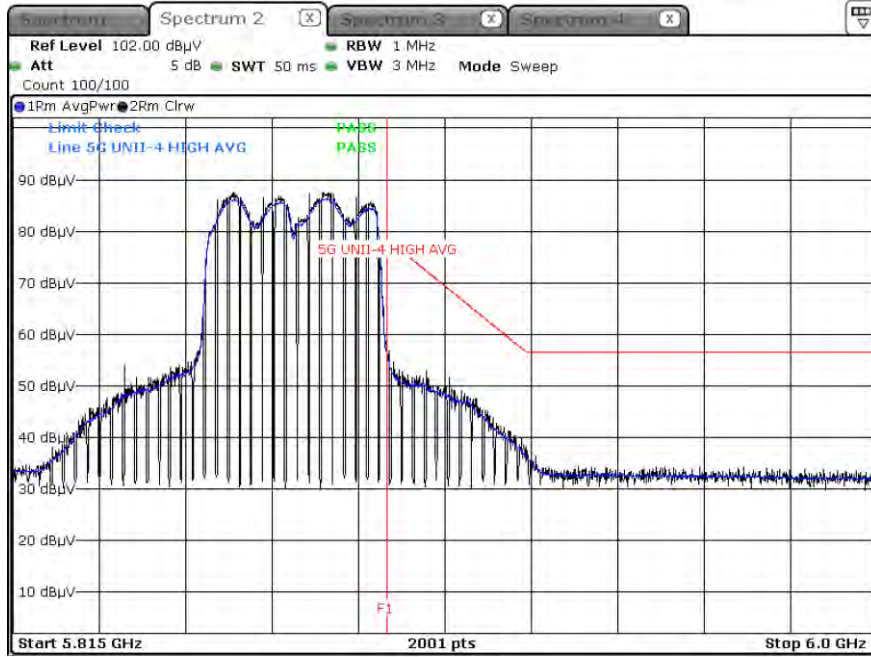
Average Result (802.11n_HT20, Ch.177, X-H)



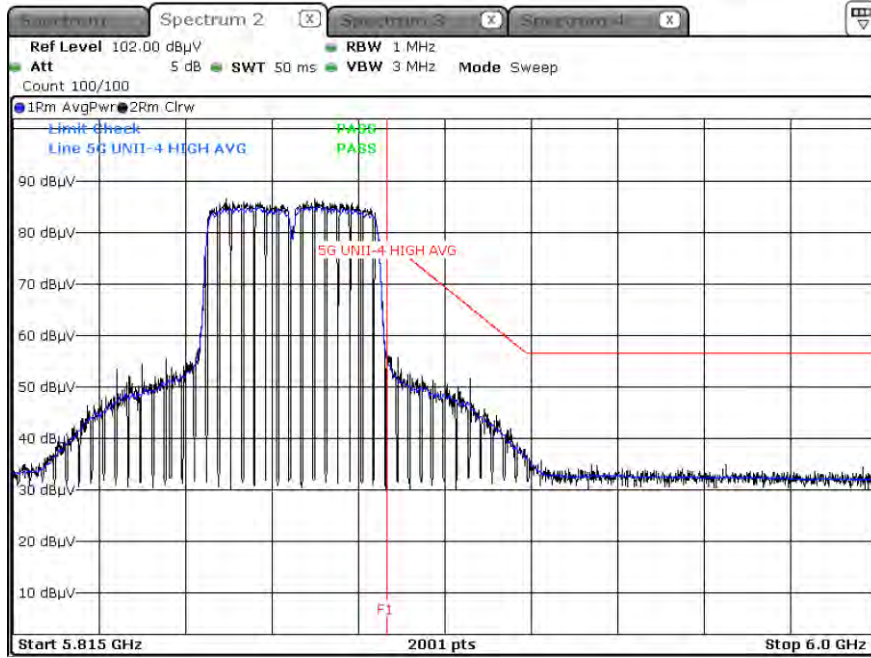
Average Result (802.11ac_VHT20, Ch.177, X-H)



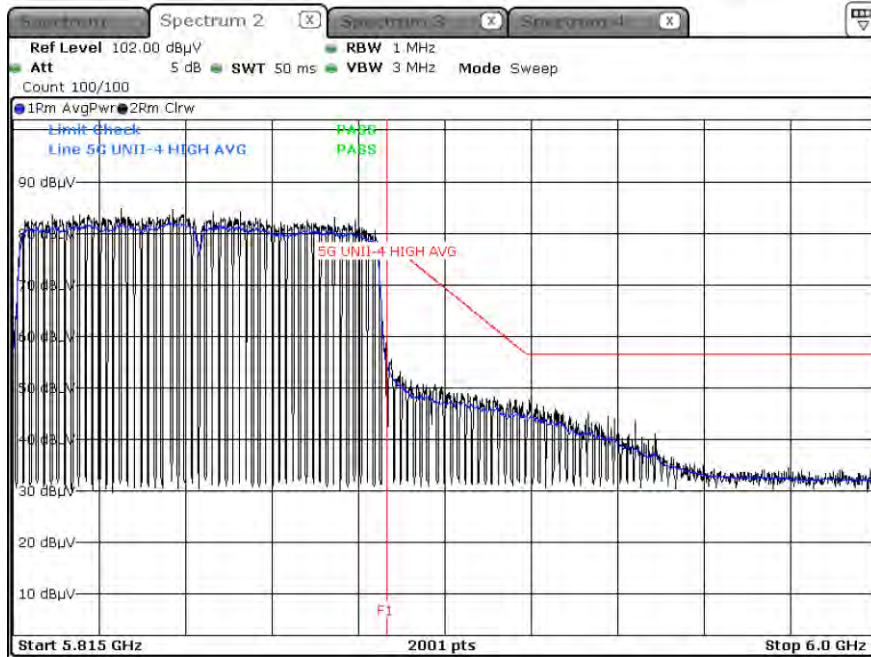
Average Result (802.11n_HT40, Ch.175, X-H)



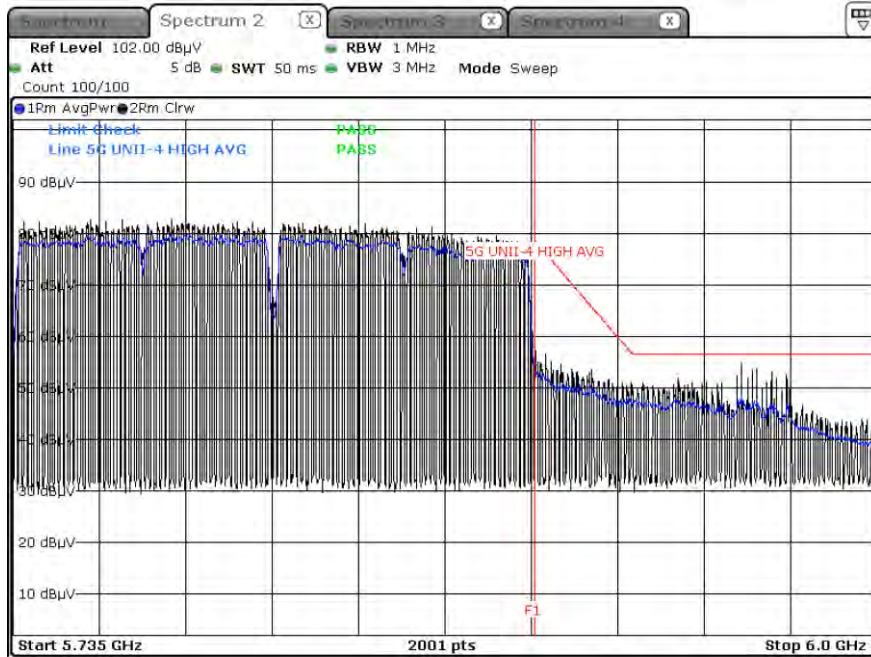
Average Result (802.11ac_VHT40, Ch.175, X-H)



Average Result (802.11ac_VHT80, Ch.171, X-H)



Average Result (802.11ac_VHT160, Ch.163, X-H)

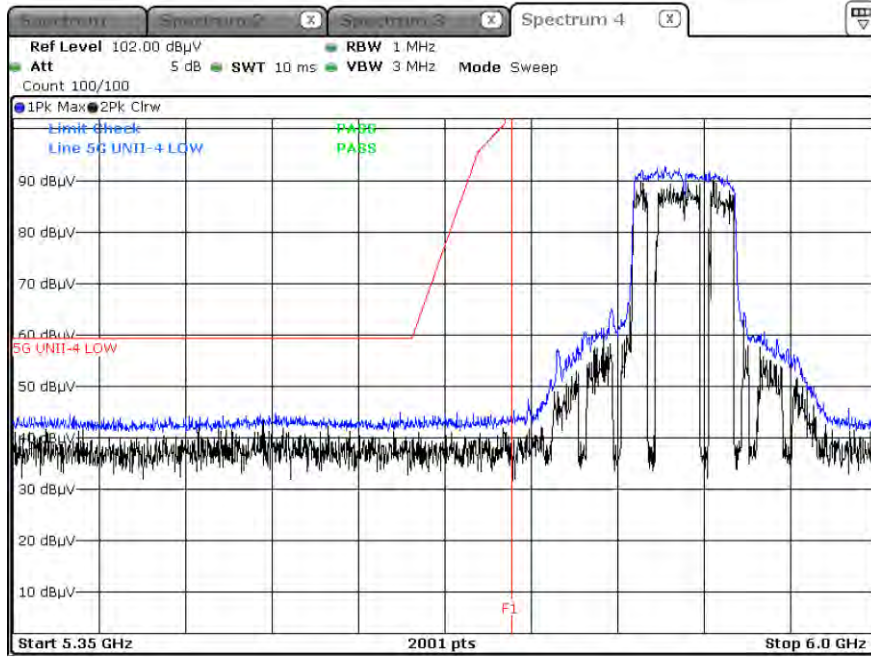


Note :

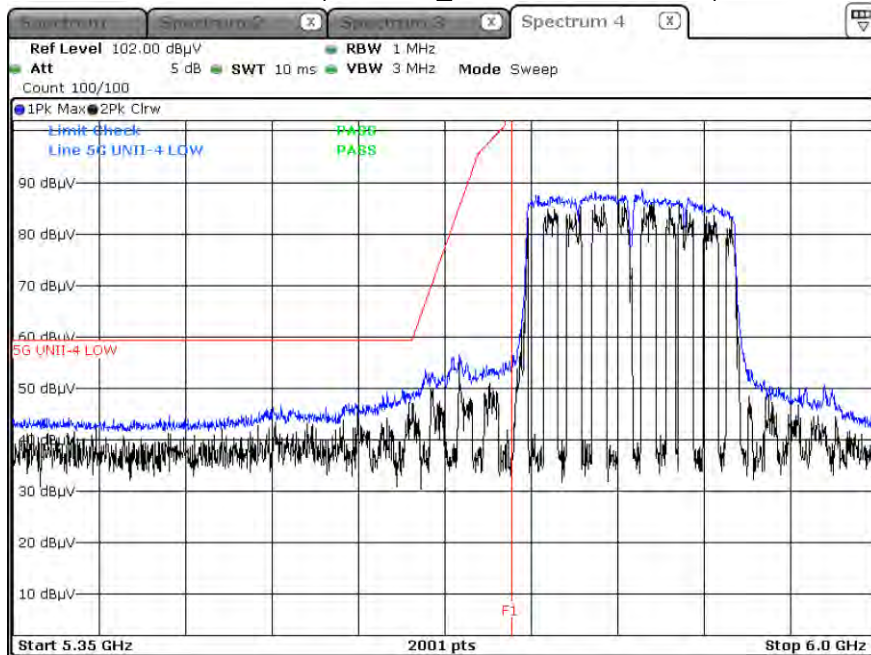
1. Only the worst case plots for U-NII-4 O.O.B.E
2. U-NII-4 Low & High O.O.B.E RedLine is Final Test Limit(Average) about factor value compensation.

Closed Mode

Peak Result (802.11ac_VHT80, Ch.171, X-H)



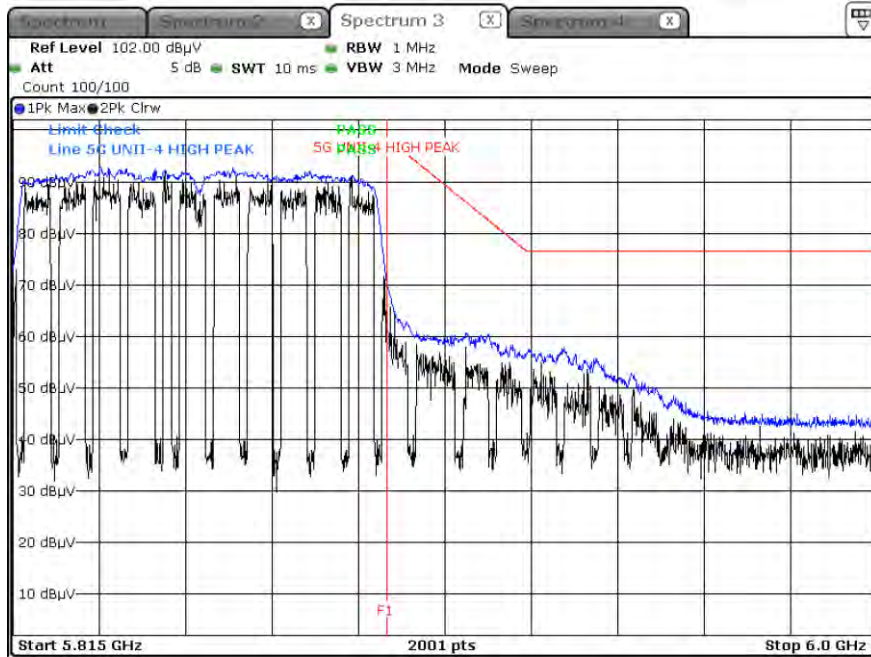
Peak Result (802.11ac_VHT160, Ch.163, X-H)



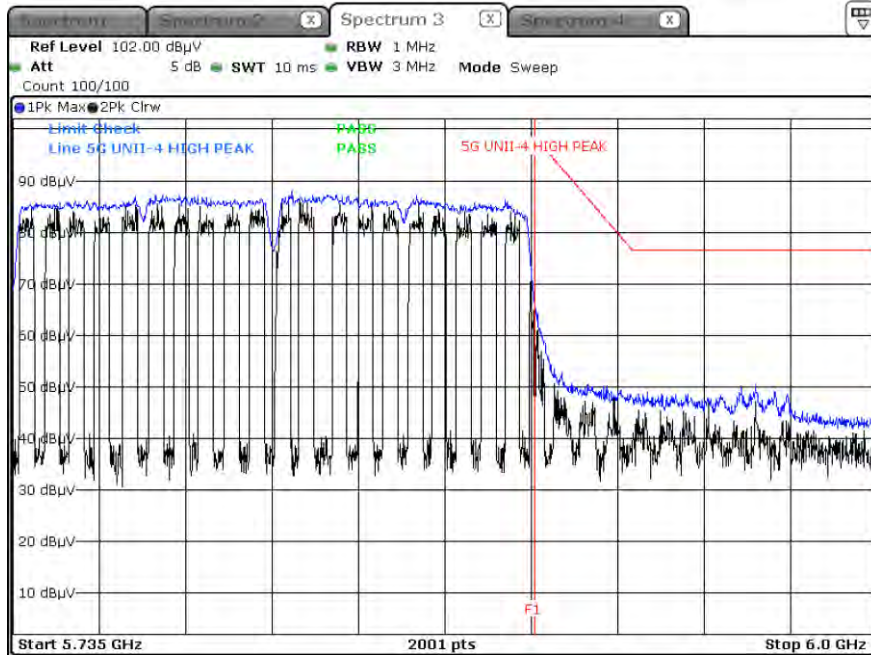
Note :

1. Only the worst case plots for U-NII-4 O.O.B.E
2. U-NII-4 Low & High O.O.B.E RedLine is Final Test Limit about factor value compensation.

Peak Result (802.11ac_VHT80, Ch.171, X-H)



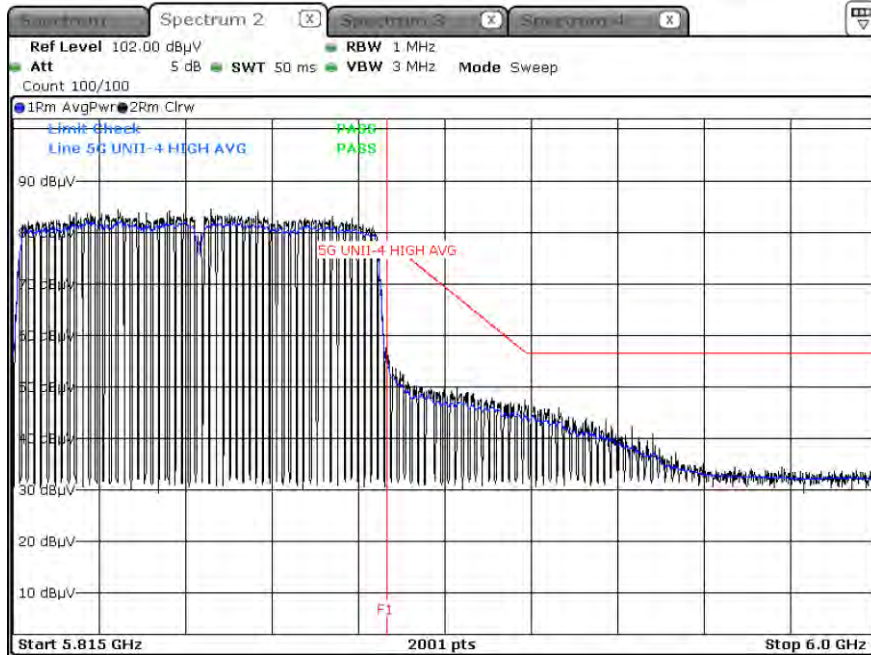
Peak Result (802.11ac_VHT160, Ch.163, X-H)



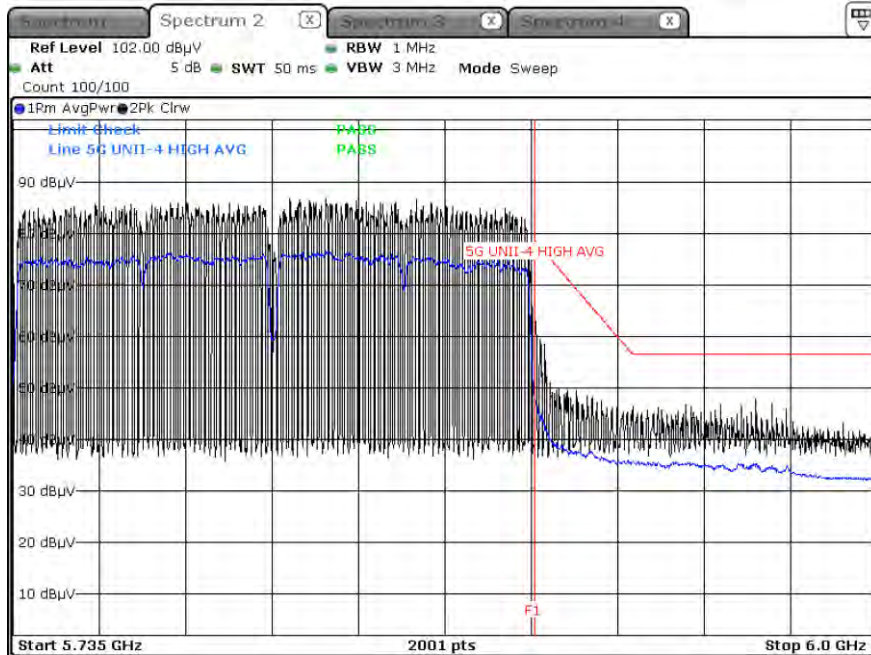
Note :

1. Only the worst case plots for U-NII-4 O.O.B.E
2. U-NII-4 Low & High O.O.B.E RedLine is Final Test Limit(Peak) about factor value compensation.

Average Result (802.11ac_VHT80, Ch.171, X-H)



Average Result (802.11ac_VHT160, Ch.163, X-H)



Note :

1. Only the worst case plots for U-NII-4 O.O.B.E
2. U-NII-4 Low & High O.O.B.E RedLine is Final Test Limit(Average) about factor value compensation.

10.10 POWERLINE CONDUCTED EMISSIONS

Conducted Emissions

Test

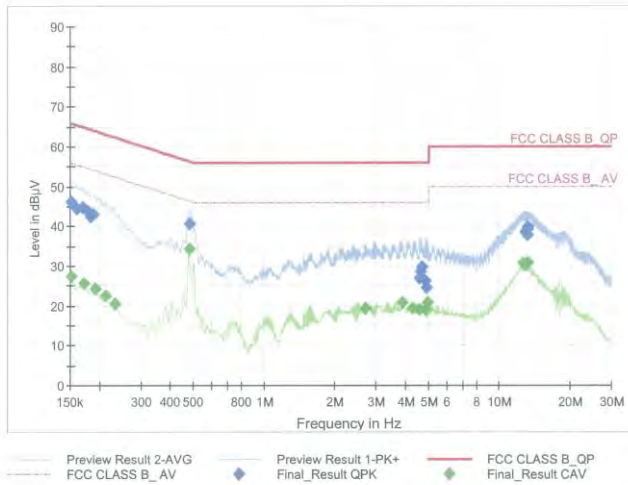
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Test Report

Common Information

EUT : SM-F946B/DS
 Operating Conditions : 5G WLAN Mode
 Comment :

Full Spectrum



Final Result QPK

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.1523	46.14	65.88	19.73	1000.0	9.000	L1	OFF	9.7
0.1613	44.39	65.40	21.01	1000.0	9.000	L1	OFF	9.7
0.1703	44.76	64.95	20.19	1000.0	9.000	N	OFF	9.6
0.1770	43.88	64.63	20.74	1000.0	9.000	L1	OFF	9.7
0.1838	42.49	64.31	21.83	1000.0	9.000	N	OFF	9.6
0.1883	42.98	64.11	21.14	1000.0	9.000	L1	OFF	9.7
0.4830	40.78	56.29	15.50	1000.0	9.000	L1	OFF	9.7
4.6085	26.79	56.00	29.21	1000.0	9.000	L1	OFF	9.8
4.6423	28.57	56.00	27.43	1000.0	9.000	L1	OFF	9.8
4.6760	29.78	56.00	26.22	1000.0	9.000	L1	OFF	9.8
4.8538	26.32	56.00	29.68	1000.0	9.000	L1	OFF	9.8
4.9168	24.47	56.00	31.53	1000.0	9.000	L1	OFF	9.8
12.9020	38.40	60.00	21.60	1000.0	9.000	L1	OFF	10.1
12.9290	38.61	60.00	21.39	1000.0	9.000	L1	OFF	10.1
13.1428	39.69	60.00	20.31	1000.0	9.000	L1	OFF	10.1
13.1698	39.09	60.00	20.91	1000.0	9.000	L1	OFF	10.1
13.1968	39.13	60.00	20.87	1000.0	9.000	L1	OFF	10.1
13.2238	37.85	60.00	22.15	1000.0	9.000	L1	OFF	10.1

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Test

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Final Result CAV

Frequency (MHz)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.1523	27.26	55.88	28.61	1000.0	9.000	L1	OFF	9.7
0.1725	25.79	54.84	29.05	1000.0	9.000	L1	OFF	9.7
0.1928	24.33	53.92	29.59	1000.0	9.000	L1	OFF	9.7
0.2130	22.45	53.09	30.63	1000.0	9.000	L1	OFF	9.7
0.2333	20.47	52.33	31.86	1000.0	9.000	L1	OFF	9.7
0.4808	34.45	46.33	11.87	1000.0	9.000	L1	OFF	9.7
2.6983	19.33	46.00	26.67	1000.0	9.000	L1	OFF	9.8
3.8615	20.71	46.00	25.29	1000.0	9.000	L1	OFF	9.8
4.3025	19.36	46.00	26.64	1000.0	9.000	L1	OFF	9.8
4.6085	19.14	46.00	26.86	1000.0	9.000	L1	OFF	9.8
4.8538	18.91	46.00	27.09	1000.0	9.000	L1	OFF	9.8
4.9528	20.71	46.00	25.29	1000.0	9.000	L1	OFF	9.8
12.6388	30.59	50.00	19.41	1000.0	9.000	L1	OFF	10.1
12.7130	30.15	50.00	19.85	1000.0	9.000	L1	OFF	10.1
12.8840	30.18	50.00	19.82	1000.0	9.000	L1	OFF	10.1
13.1158	30.28	50.00	19.72	1000.0	9.000	L1	OFF	10.1
13.1428	30.57	50.00	19.43	1000.0	9.000	L1	OFF	10.1
13.1675	30.74	50.00	19.26	1000.0	9.000	L1	OFF	10.1

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11. LIST OF TEST EQUIPMENT

Conducted Test

Equipment	Model	Manufacturer	Serial No.	Due to Calibration	Calibration Interval
LISN	ENV216	Rohde & Schwarz	102245	08/22/2023	Annual
EMI Test Receiver	ESR	Rohde & Schwarz	101910	06/07/2023	Annual
Temperature Chamber	SU-642	ESPEC	0093008124	02/22/2024	Annual
Signal Analyzer	N9030A	Agilent	MY52350879	01/02/2024	Annual
Power Measurement Set	OSP 120	Rohde & Schwarz	101231	06/14/2023	Annual
Power Meter	N1911A	Agilent	MY45100523	03/06/2024	Annual
Power Sensor	N1921A	Agilent	MY57820067	03/06/2024	Annual
Directional Coupler	87300B	Agilent	3116A03621	11/02/2023	Annual
Power Splitter	11667B	Hewlett Packard	05001	04/19/2024	Annual
DC Power Supply	E3632A	H.P	KR75303243	04/24/2024	Annual
Attenuator(10 dB)	8493C	Hewlett Packard	07560	06/14/2023	Annual
Software	EMC32	Rohde & Schwarz	N/A	N/A	N/A
FCC WLAN&BT&BLE Conducted Test Software v3.0	N/A	HCT CO., LTD.	N/A	N/A	N/A

Note:

1. Equipment listed above that calibrated during the testing period was set for test after the calibration.
2. Equipment listed above that has a calibration due date during the testing period, the testing is completed before equipment expiration date.

Radiated Test

Equipment	Model	Manufacturer	Serial No.	Due to Calibration	Calibration Interval
Controller(Antenna mast)	CO3000	Innco system	CO3000-4p	N/A	N/A
Antenna Position Tower	MA4640/800-XP-EP	Innco system	N/A	N/A	N/A
Controller	EM1000	Audix	060520	N/A	N/A
Turn Table	N/A	Audix	N/A	N/A	N/A
Loop Antenna	FMZB 1513	Rohde & Schwarz	1513-333	03/17/2024	Biennial
Hybrid Antenna	VULB 9168	Schwarzbeck	760	02/24/2025	Biennial
Horn Antenna	BBHA 9120D	Schwarzbeck	02299	03/24/2024	Biennial
Horn Antenna (15GHz ~ 40 GHz)	BBHA9170	Schwarzbeck	BBHA9170342	09/29/2024	Biennial
Spectrum Analyzer	FSV40-N	Rohde & Schwarz	102168	07/04/2023	Annual
Signal Analyzer	N9030A	Agilent	MY52350879	01/02/2024	Annual
Band Reject Filter	WRCJV12-4900-5100-5900- 6100-50SS	Wainwright Instruments	5	06/13/2023	Annual
Band Reject Filter	WRCJV12-4900-5100-5900- 6100-50SS	Wainwright Instruments	6	06/13/2023	Annual
Band Reject Filter	WRCJV2400/2483.5- 2370/2520-60/12SS	Wainwright Instruments	2	01/05/2024	Annual
Band Reject Filter	WRCJV5100/5850-40/50- 8EEK	Wainwright Instruments	1	02/09/2024	Annual
High Pass Filter	WHK3.0/18G-10EF	Wainwright Instruments	8	01/16/2024	Annual
High Pass Filter	WHKX8-6090-7000-18000- 40SS	Wainwright Instruments	25	01/16/2024	Annual
Attenuator (3 dB)	18B-03	Api tech.	1	01/16/2024	Annual
Attenuator(10 dB)	8493C-10	Agilent	08285	01/16/2024	Annual
Power Amplifier	CBLU1183540	CERNEX	22964	01/16/2024	Annual
Power Amplifier	CBL06185030	CERNEX	22965	01/16/2024	Annual
Power Amplifier	CBL18265035	CERNEX	22966	12/01/2023	Annual
Power Amplifier	CBL26405040	CERNEX	25956	03/02/2024	Annual

Note:

1. Equipment listed above that calibrated during the testing period was set for test after the calibration.
2. Equipment listed above that has a calibration due date during the testing period, the testing is completed before equipment expiration date.
3. Especially, all antenna for measurement is calibrated in accordance with the requirements of C63.5(Version : 2017).

12. ANNEX A_ TEST SETUP PHOTO

Please refer to test setup photo file no. as follows;

No.	Description
1	HCT-RF-2305-FC064-P