▣ Test Plots (26 dB Bandwidth)

802.11n(HT40) UNII Band	802.11ac(VHT40) UNII Band
	

802.11ac(VHT80) UNII Band


10.6.2 6 dB Bandwidth

[Ant.1]

Mode	Band	Frequency [MHz]	Channel	Measured Frequency [MHz]	6 dB Bandwidth [MHz]	Limit [MHz]
802.11a	UNII 3	5720	144	5727.80	2.80	> 0.5
802.11n(HT20)				5728.88	3.88	> 0.5
802.11ac(VHT20)				5728.88	3.88	> 0.5

Mode	Band	Frequency [MHz]	Channel	Measured Frequency [MHz]	6 dB Bandwidth [MHz]	Limit [MHz]
802.11n(HT40)	UNII 3	5710	142	5728.32	3.32	> 0.5
802.11ac(VHT40)				5727.60	2.60	> 0.5

Mode	Band	Frequency [MHz]	Channel	Measured Frequency [MHz]	6 dB Bandwidth [MHz]	Limit [MHz]
802.11ac(VHT80)	UNII 3	5690	138	5728.40	3.40	> 0.5

Note:

6 dB Bandwidth = Measured Frequency[MHz] – 5 725MHz

[Ant.2]

Mode	Band	Frequency [MHz]	Channel	Measured Frequency [MHz]	6 dB Bandwidth [MHz]	Limit [MHz]
802.11a	UNII 3	5720	144	5728.12	3.12	> 0.5
802.11n(HT20)				5728.84	3.84	> 0.5
802.11ac(VHT20)				5728.88	3.88	> 0.5

Mode	Band	Frequency [MHz]	Channel	Measured Frequency [MHz]	6 dB Bandwidth [MHz]	Limit [MHz]
802.11n(HT40)	UNII 3	5710	142	5728.32	3.32	> 0.5
802.11ac(VHT40)				5728.16	3.16	> 0.5

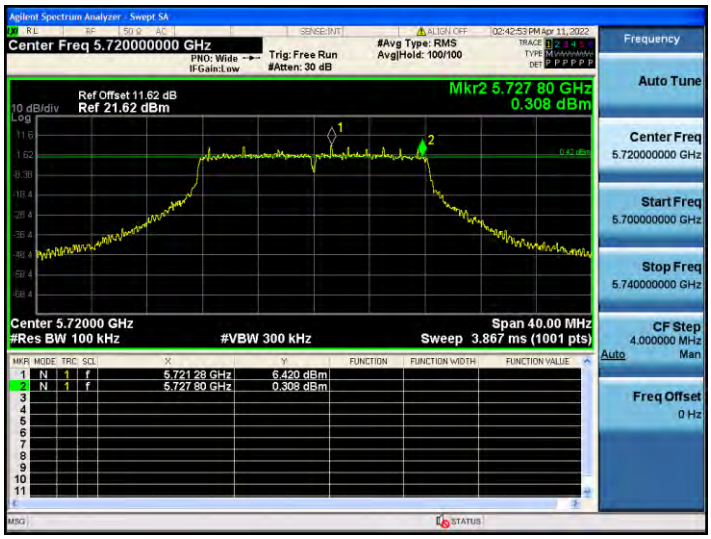
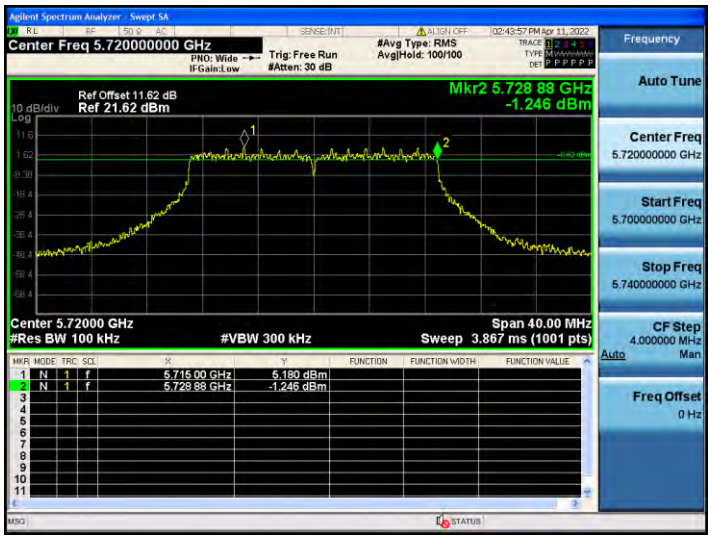
Mode	Band	Frequency [MHz]	Channel	Measured Frequency [MHz]	6 dB Bandwidth [MHz]	Limit [MHz]
802.11ac(VHT80)	UNII 3	5690	138	5728.40	3.40	> 0.5

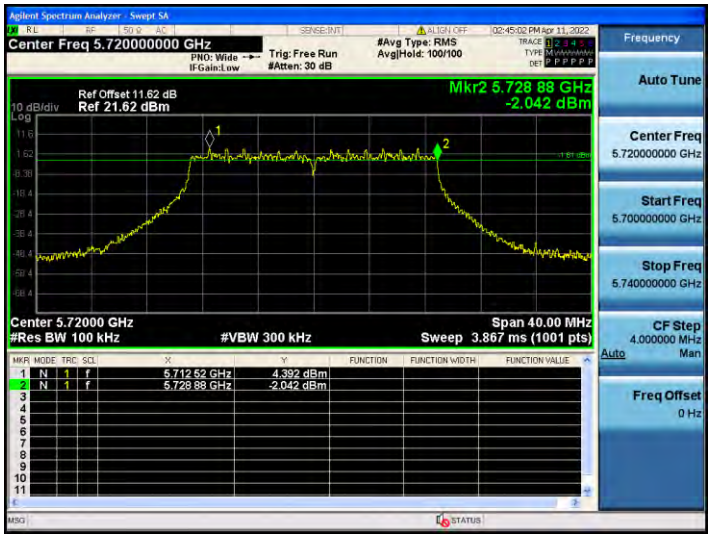
Note:

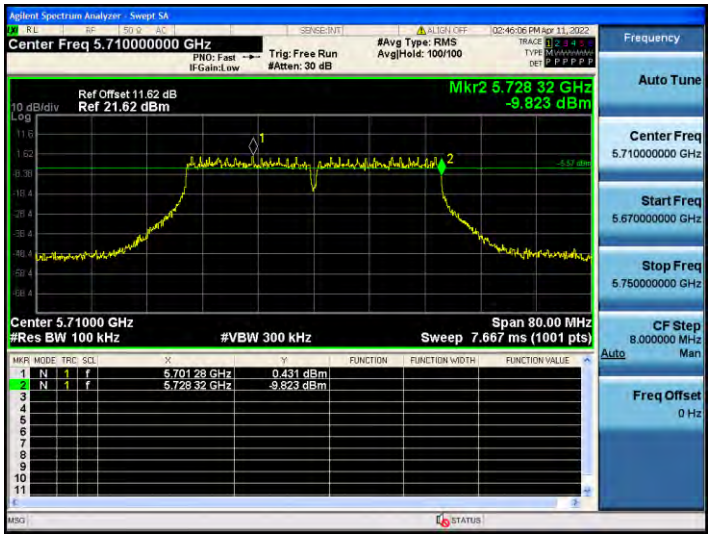
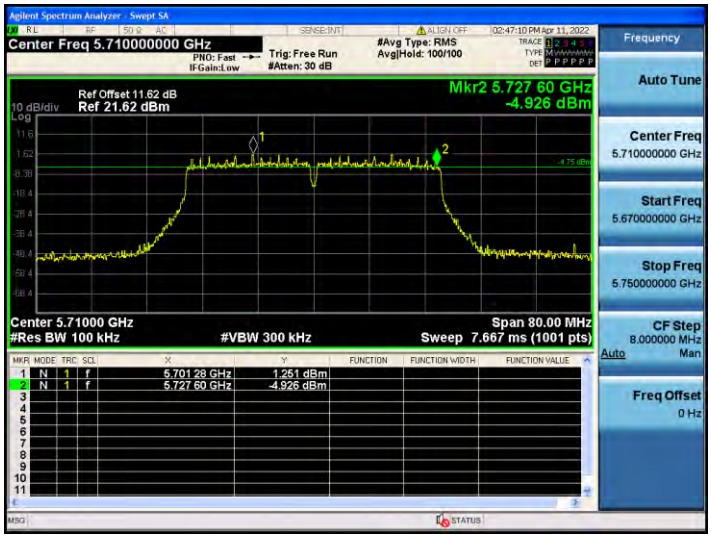
6 dB Bandwidth = Measured Frequency[MHz] – 5725MHz

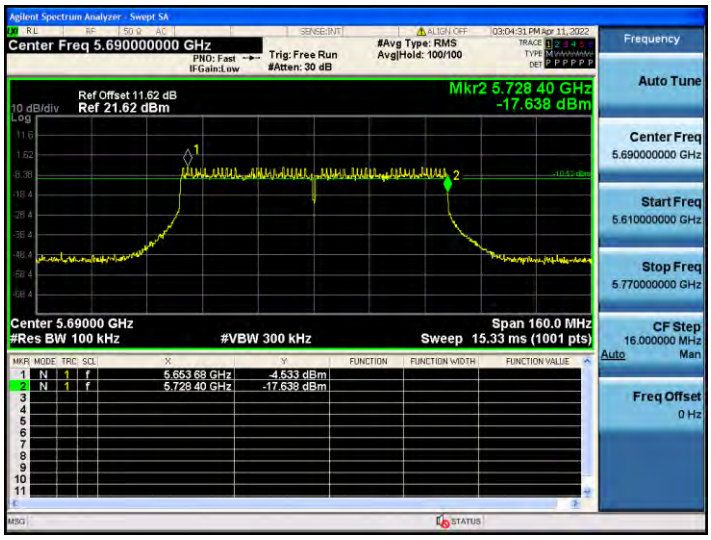
[Ant.1]

▣ Test Plots(UNII 3 Band 6 dB Bandwidth)

802.11a CH.144	802.11n_HT20 CH.144
	

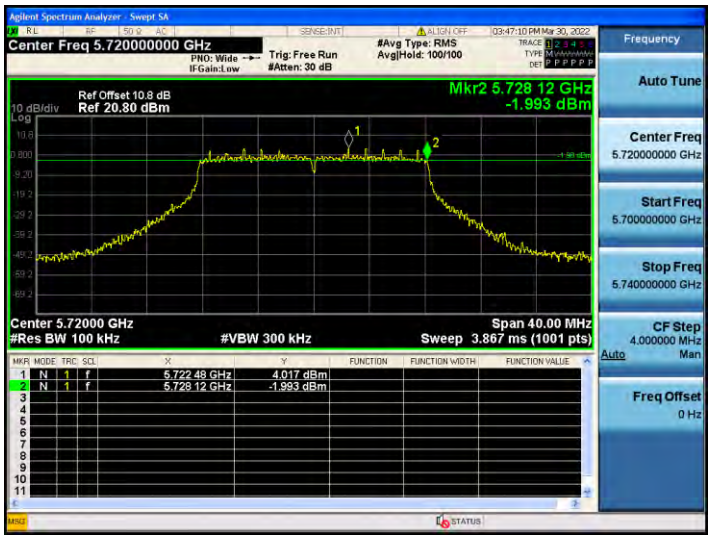
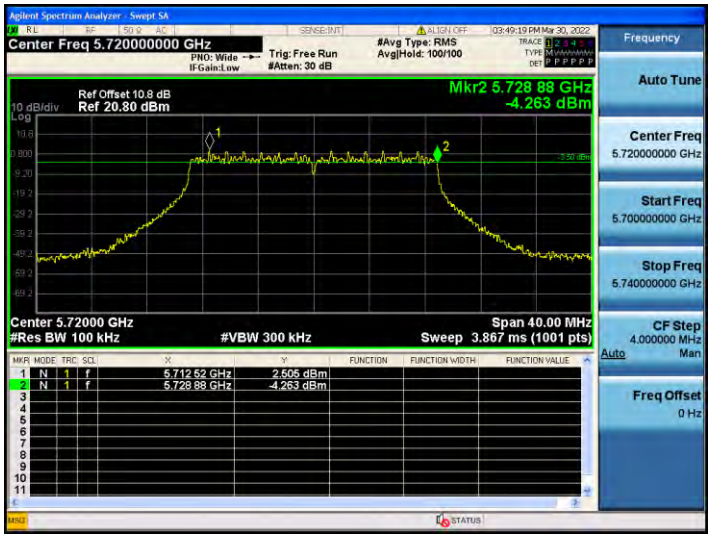
802.11ac_VHT20 CH.144


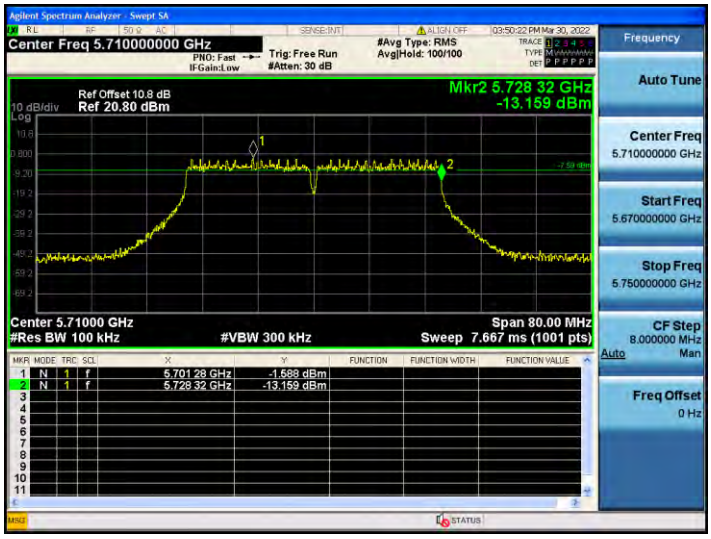
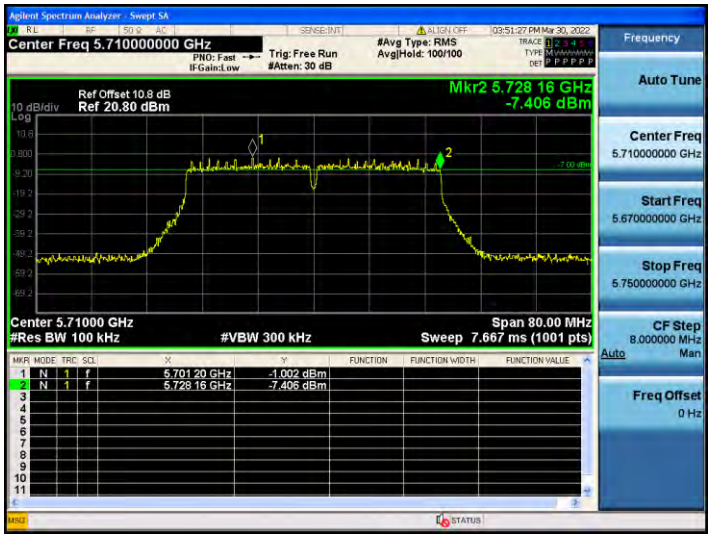
802.11n_HT40 CH.142	802.11ac_VHT40 CH.142
	

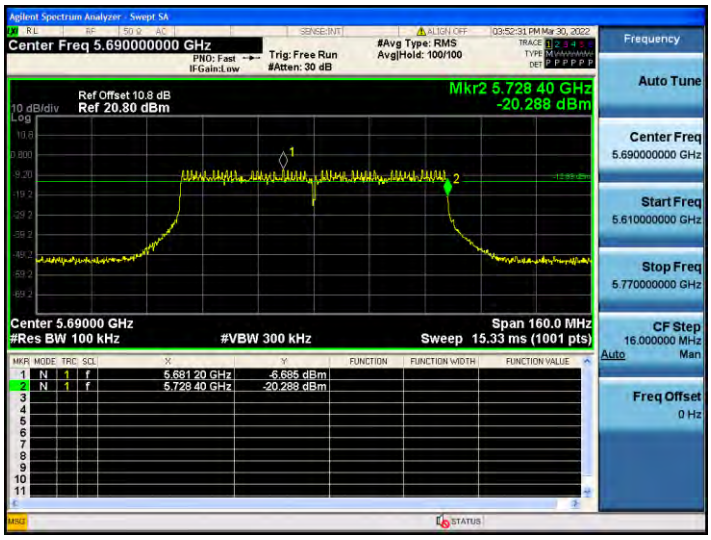
802.11ac_VHT80 CH.138


[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


10.6.3 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 (UNII 2C Band)	144	15.60	0.292	15.89	22.80	6 Mbps
802.11n(HT20)			13.56	2.162	15.72	22.90	MCS7
802.11ac(VHT20)			12.84	1.761	14.60	22.94	MCS5
802.11a	5720 (UNII 3 Band)	144	9.12	0.292	9.41	30.00	6 Mbps
802.11n(HT20)			8.08	2.162	10.24	30.00	MCS7
802.11ac(VHT20)			7.43	1.761	9.19	30.00	MCS5

Mode	Frequency [MHz]	Channel	Measured Power [dBm]	Duty Cycle Factor [dB]	Total Power [dBm]	Limit [dBm]	Worstcase Datarate
802.11n(HT40)	5710 (UNII 2C Band)	142	12.08	2.478	14.55	23.98	MCS4
802.11ac(VHT40)			13.45	1.165	14.62	23.98	MCS1
802.11n(HT40)	5710 (UNII 3 Band)	142	2.12	2.478	4.60	30.00	MCS4
802.11ac(VHT40)			2.49	1.165	3.66	30.00	MCS1

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	8.95	3.912	12.86	23.98	MCS7
	5690 (UNII 3 Band)	138	-6.14	3.912	-2.23	30.00	MCS7

[Ant.2]

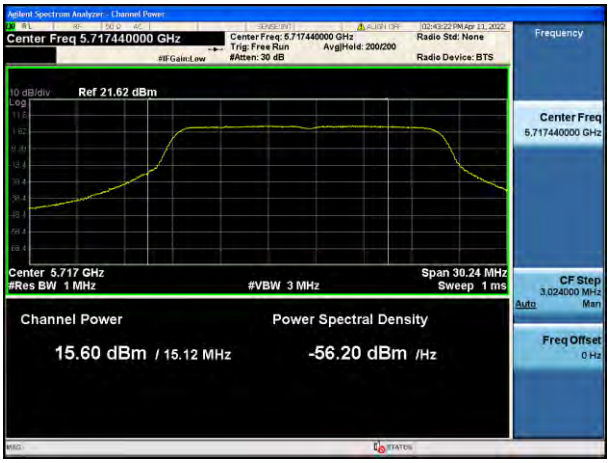
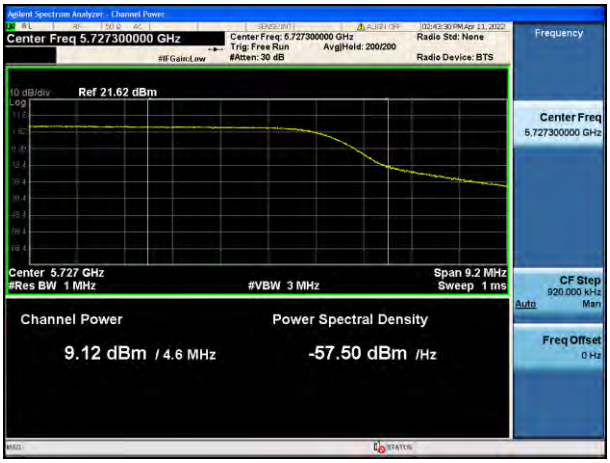
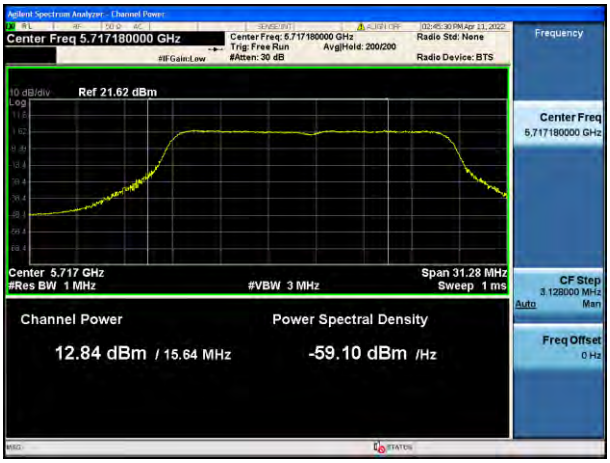
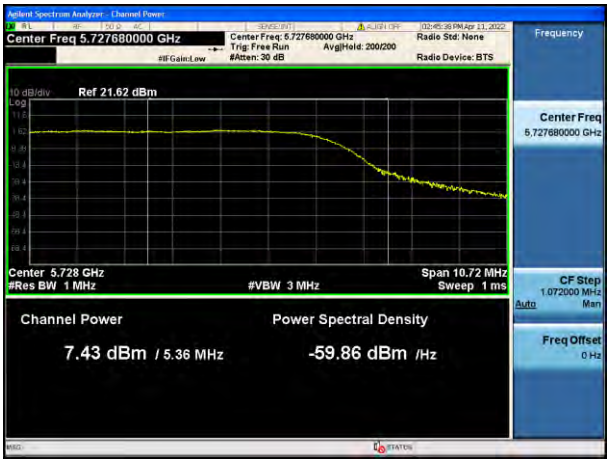
Mode	Frequency [MHz]	Channel	Measured Power [dBm]	Duty Cycle Factor [dB]	Total Power [dBm]	Limit [dBm]	Worstcase Datarate
802.11a	5720 (UNII 2C Band)	144	13.61	0.292	13.91	22.61	6 Mbps
802.11n(HT20)			11.65	2.162	13.81	22.92	MCS7
802.11ac(VHT20)			10.93	1.761	12.69	22.95	MCS5
802.11a	5720 (UNII 3 Band)	144	7.28	0.292	7.57	30.00	6 Mbps
802.11n(HT20)			6.23	2.162	8.39	30.00	MCS7
802.11ac(VHT20)			5.57	1.761	7.33	30.00	MCS5

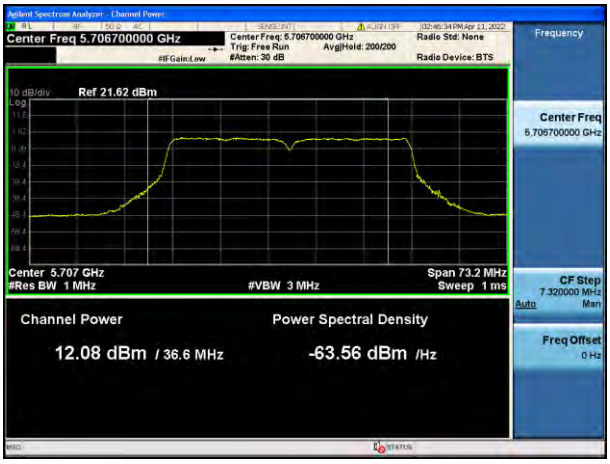
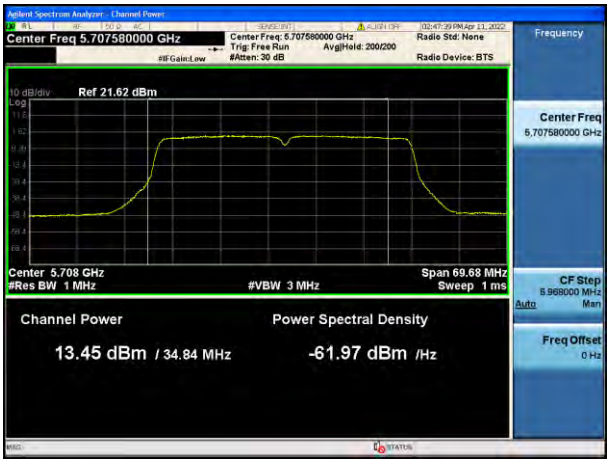
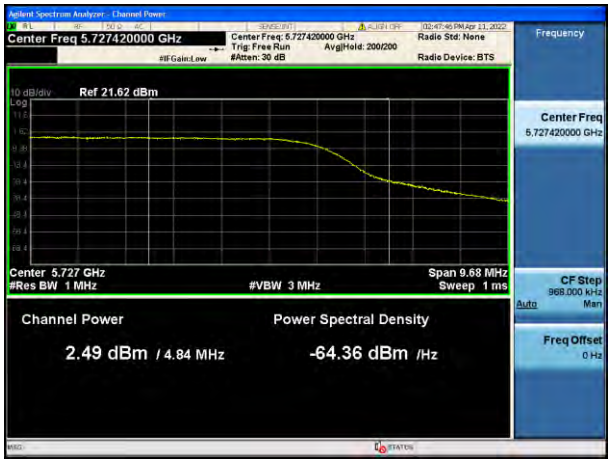
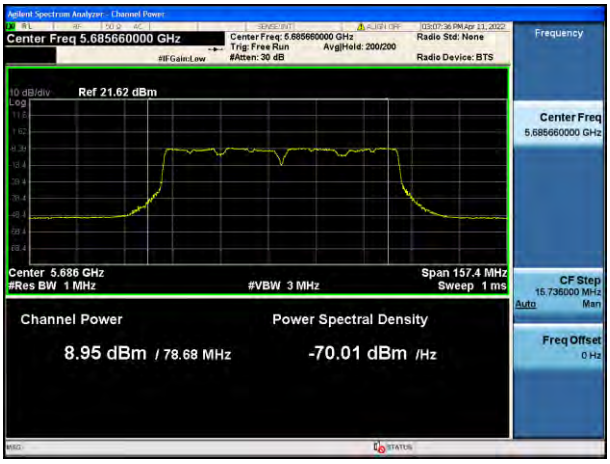
Mode	Frequency [MHz]	Channel	Measured Power [dBm]	Duty Cycle Factor [dB]	Total Power [dBm]	Limit [dBm]	Worstcase Datarate
802.11n(HT40)	5710 (UNII 2C Band)	142	10.08	2.478	12.56	23.98	MCS4
802.11ac(VHT40)			11.44	1.165	12.61	23.98	MCS1
802.11n(HT40)	5710 (UNII 3 Band)	142	0.21	2.478	2.69	30.00	MCS4
802.11ac(VHT40)			0.63	1.165	1.80	30.00	MCS1

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	6.85	3.912	10.76	23.98	MCS7
	5690 (UNII 3 Band)	138	-6.40	3.912	-2.49	30.00	MCS7

[Ant.1]

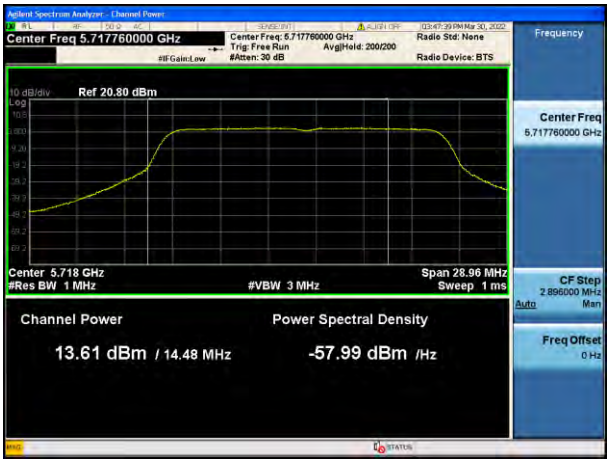
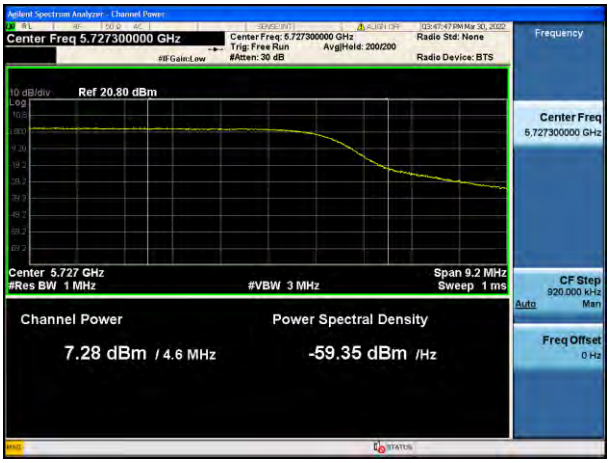
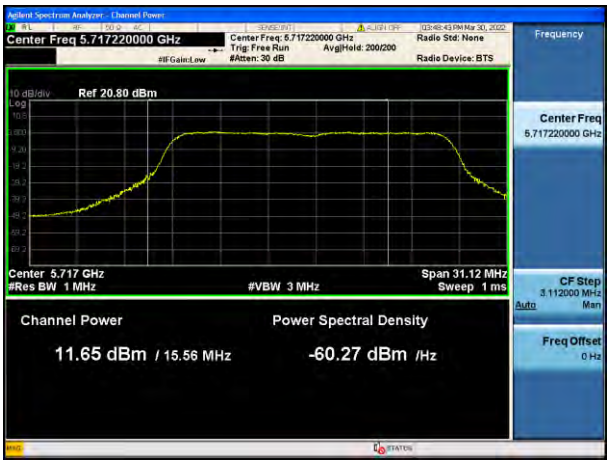
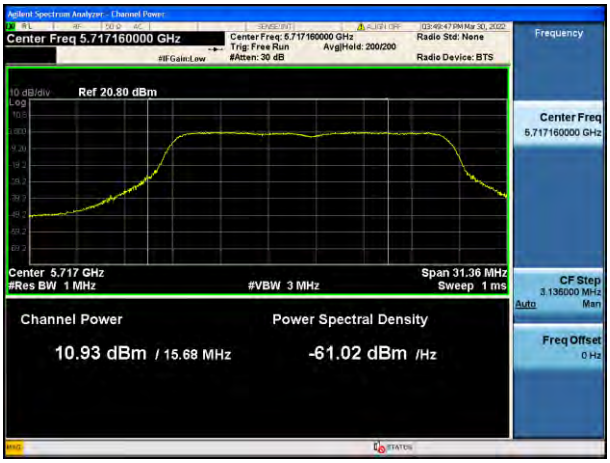
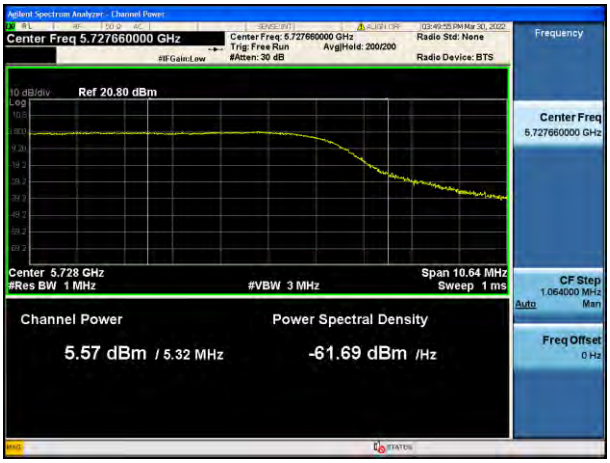
▣ Test Plots

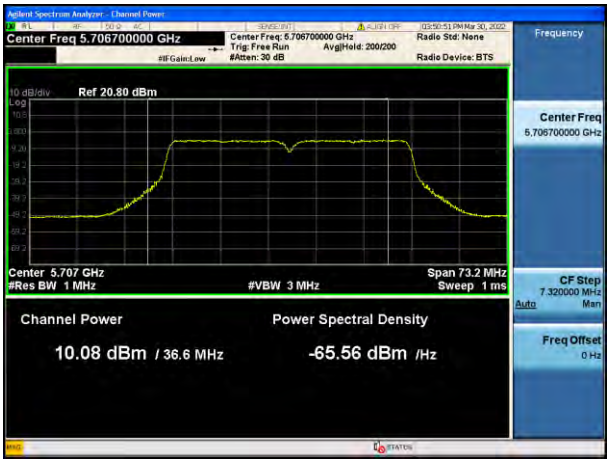
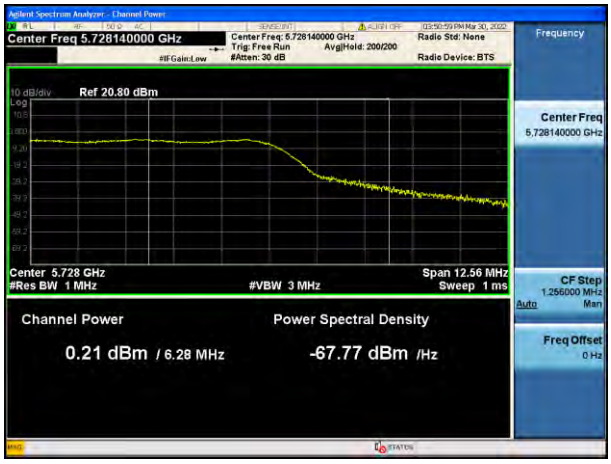
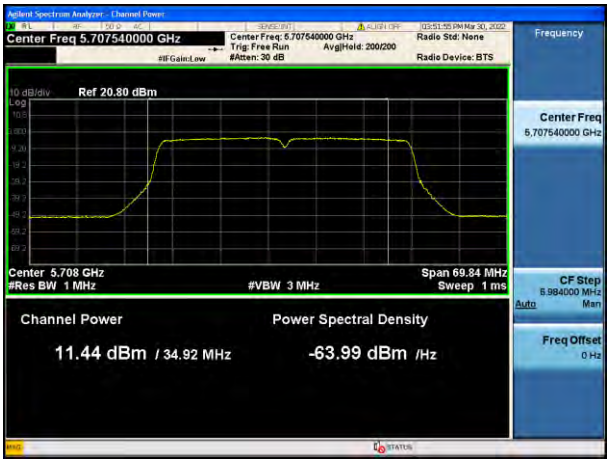
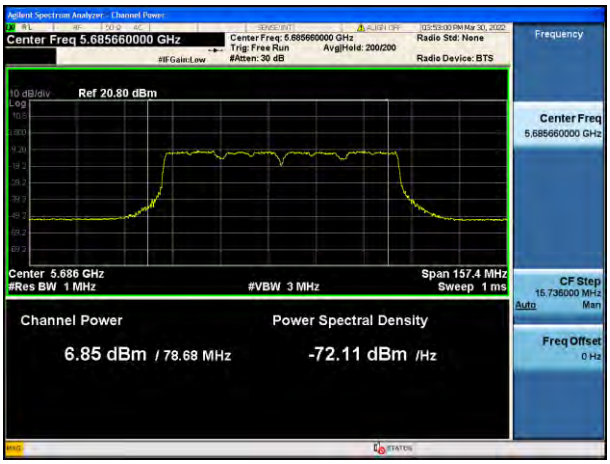
802.11a UNII 2C Band	802.11a UNII 3 Band
	
802.11n(HT20) UNII 2C Band	**802.11n(HT20) UNII 3 Band**
	
802.11ac(VHT20) UNII 2C Band	**802.11ac(VHT20) UNII 3 Band**
	

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**
	

10.6.4 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 (UNII 2C Band)	144	5.458	0.292	5.749	11 dBm/ MHz	6 Mbps
802.11n(HT20)			3.226	2.162	5.388		MCS7
802.11ac(VHT20)			2.274	1.761	4.035		MCS5
802.11a	5720 (UNII 3 Band)	144	2.128	0.292	2.419	30 dB/ 500 kHz	6 Mbps
802.11n(HT20)			0.596	2.162	2.759		MCS7
802.11ac(VHT20)			-0.065	1.761	1.696		MCS5

Mode	Frequency [MHz]	Channel	Measured Density [dBm]	Duty Cycle Factor [dB]	Total PSD [dBm]	Limit [dBm]	Worstcase Datarate
802.11n(HT40)	5710 (UNII 2C Band)	142	-1.631	2.478	0.847	11 dBm/ MHz	MCS4
802.11ac(VHT40)			-0.492	1.165	0.673		MCS1
802.11n(HT40)	5710 (UNII 3 Band)	142	-5.496	2.478	-3.018	30 dBm/ 500 kHz	MCS4
802.11ac(VHT40)			-4.601	1.165	-3.436		MCS1

Mode	Frequency [MHz]	Channel	Measured Density [dBm]	Duty Cycle Factor [dB]	Total PSD [dBm]	Limit [dBm]	Worstcase Datarate
802.11ac(VHT80)	5690 (UNII 2C Band)	138	-8.042	3.912	-4.130	11 dBm/ MHz	MCS7
	5690 (UNII 3 Band)	138	-11.035	3.912	-7.123	30 dBm/ 500 kHz	MCS7

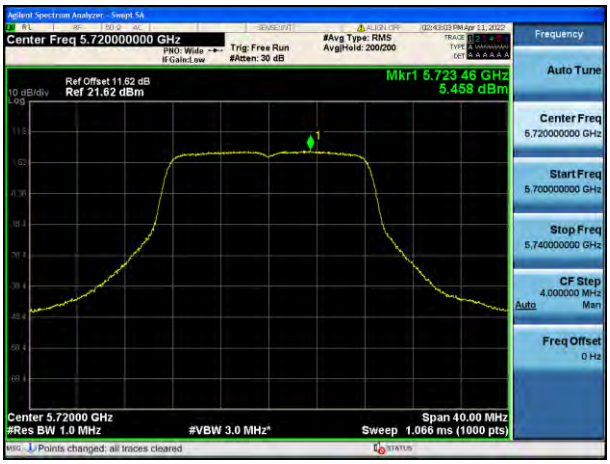
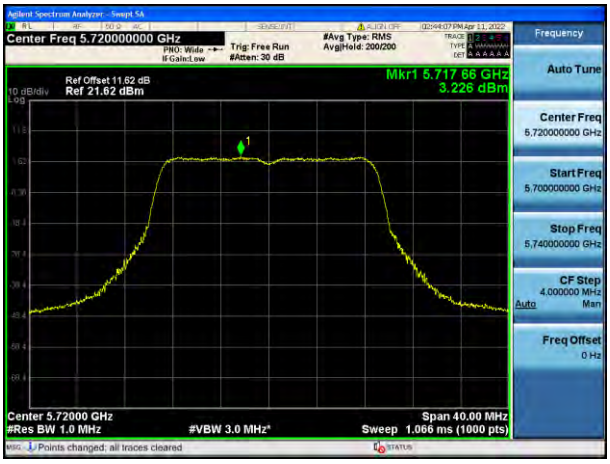
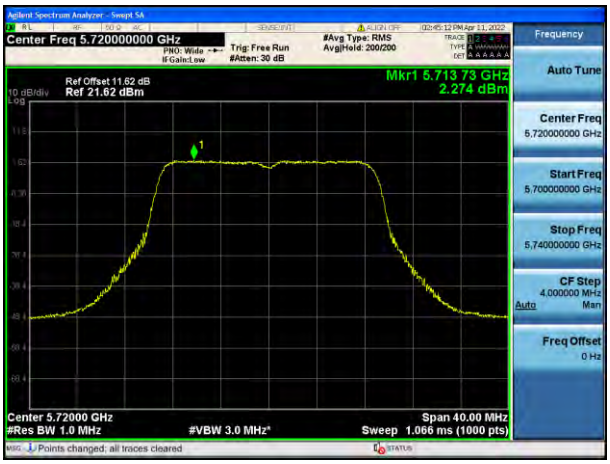
[Ant.2]

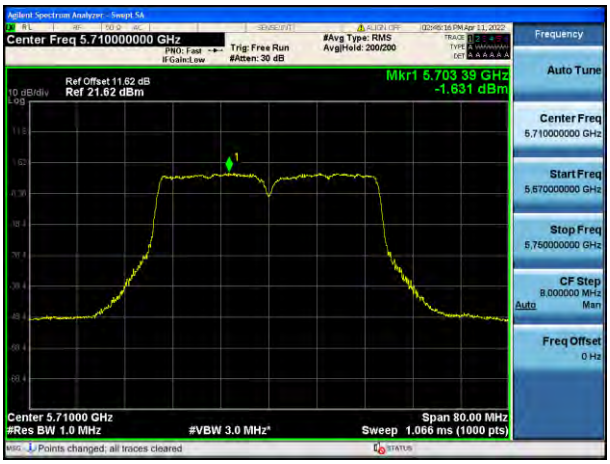
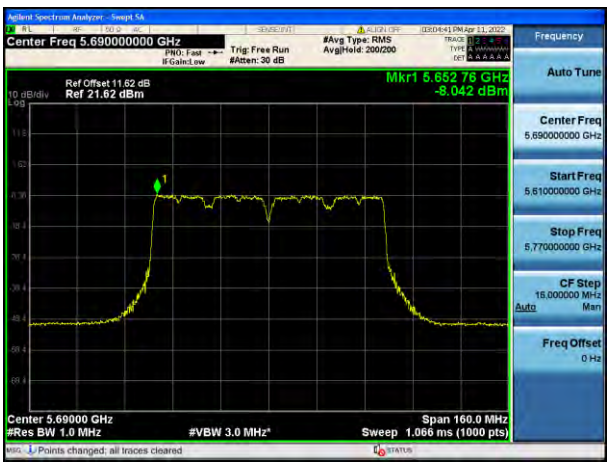
Mode	Frequency [MHz]	Channel	Measured Density [dBm]	Duty Cycle Factor [dB]	Total PSD [dBm]	Limit [dBm]	Worstcase Datarate
802.11a	5720 (UNII 2C Band)	144	3.382	0.292	3.674	11 dBm/ MHz	6 Mbps
802.11n(HT20)			1.307	2.162	3.469		MCS7
802.11ac(VHT20)			0.597	1.761	2.358		MCS5
802.11a	5720 (UNII 3 Band)	144	-0.052	0.292	0.240	30 dBm/500 kHz	6 Mbps
802.11n(HT20)			-1.355	2.162	0.807		MCS7
802.11ac(VHT20)			-1.827	1.761	-0.066		MCS5

Mode	Frequency [MHz]	Channel	Measured Density [dBm]	Duty Cycle Factor [dB]	Total PSD [dBm]	Limit [dBm]	Worstcase Datarate
802.11n(HT40)	5710 (UNII 2C Band)	142	-3.706	2.478	-1.228	11 dBm/ MHz	MCS4
802.11ac(VHT40)			-2.430	1.165	-1.265		MCS1
802.11n(HT40)	5710 (UNII 3 Band)	142	-6.964	2.478	-4.486	30 dBm/ 500 kHz	MCS4
802.11ac(VHT40)			-6.156	1.165	-4.991		MCS1

Mode	Frequency [MHz]	Channel	Measured Density [dBm]	Duty Cycle Factor [dB]	Total PSD [dBm]	Limit [dBm]	Worstcase Datarate
802.11ac(VHT80)	5690 (UNII 2C Band)	138	-9.729	3.912	-5.817	11 dBm/ MHz	MCS7
	5690 (UNII 3 Band)	138	-13.397	3.912	-9.485	30 dBm/ 500 kHz	MCS7

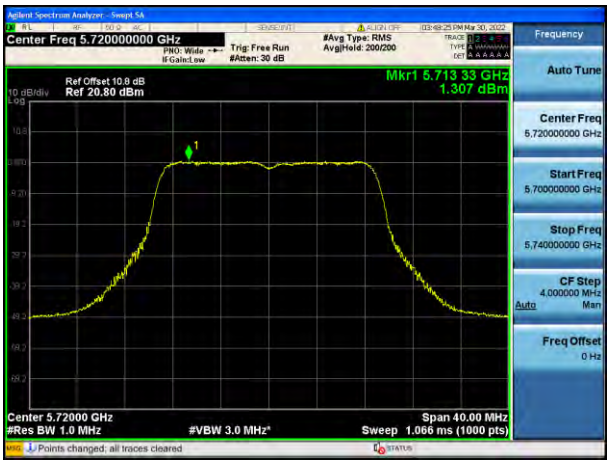
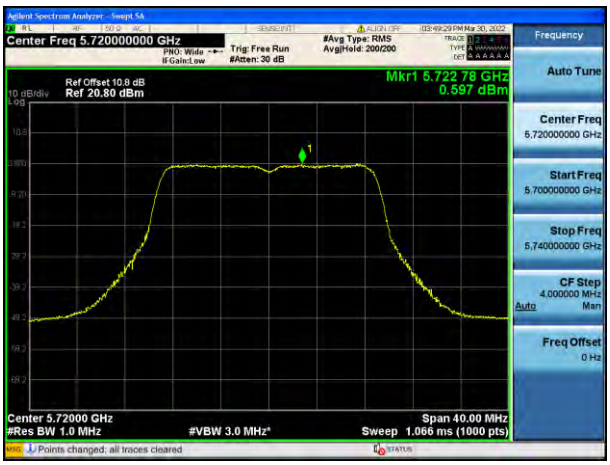
[Ant.1]
▣ Test Plots

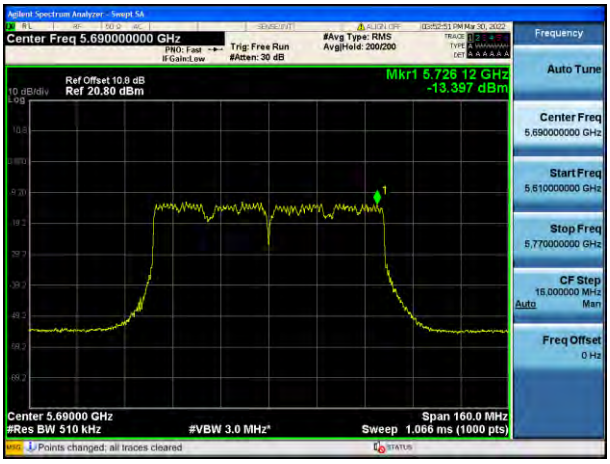
802.11a UNII 2C Band	802.11a UNII 3 Band
	
802.11n(HT20) UNII 2C Band	**802.11n(HT20) UNII 3 Band**
	
802.11ac(VHT20) UNII 2C Band	**802.11ac(VHT20) UNII 3 Band**
	

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**
	

10.7 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 = 40log (specific distance / 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

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	52.52	-0.94	V	51.58	68.20	16.62	PK
15540	50.41	1.57	V	51.98	73.98	22.00	PK
15540	37.73	1.57	V	39.30	53.98	14.68	AV
10360	52.38	-0.94	H	51.44	68.20	16.76	PK
15540	50.98	1.57	H	52.55	73.98	21.43	PK
15540	37.60	1.57	H	39.17	53.98	14.81	AV
7769	65.60	-3.88	H	61.72	68.20	6.48	PK
7769	64.94	-3.88	V	61.06	68.20	7.14	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	52.75	-0.07	V	52.68	68.20	15.52	PK
15600	50.10	1.52	V	51.62	73.98	22.36	PK
15600	37.58	1.52	V	39.10	53.98	14.88	AV
10400	52.41	-0.07	H	52.34	68.20	15.86	PK
15600	50.02	1.52	H	51.54	73.98	22.44	PK
15600	37.25	1.52	H	38.77	53.98	15.21	AV
7800	62.61	-3.72	H	58.89	68.20	9.31	PK
7800	61.35	-3.72	V	57.63	68.20	10.57	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	52.22	-0.97	V	51.25	68.20	16.95	PK
15720	50.75	0.64	V	51.39	73.98	22.59	PK
15720	37.81	0.64	V	38.45	53.98	15.53	AV
10480	52.47	-0.97	H	51.50	68.20	16.70	PK
15720	50.77	0.64	H	51.41	73.98	22.57	PK
15720	37.48	0.64	H	38.12	53.98	15.86	AV
7860	60.02	-3.85	H	56.17	68.20	12.03	PK
7860	59.71	-3.85	V	55.86	68.20	12.34	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	52.94	-1.06	V	51.89	68.20	16.32	PK
15780	51.03	0.59	V	51.62	73.98	22.36	PK
15780	37.86	0.59	V	38.45	53.98	15.53	AV
10520	53.11	-1.06	H	52.06	68.20	16.15	PK
15780	50.50	0.59	H	51.09	73.98	22.89	PK
15780	37.82	0.59	H	38.41	53.98	15.57	AV
7366	57.38	-4.53	H	52.85	73.98	21.13	PK
7366	46.01	-4.53	H	41.48	53.98	12.50	AV
7366	56.71	-4.53	V	52.18	73.98	21.80	PK
7366	45.66	-4.53	V	41.13	53.98	12.85	AV

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	52.87	-0.61	V	52.26	73.98	21.72	PK
10600	40.19	-0.61	V	39.58	53.98	14.40	AV
15900	51.56	0.25	V	51.81	73.98	22.17	PK
15900	38.22	0.25	V	38.47	53.98	15.51	AV
10600	52.61	-0.61	H	52.00	73.98	21.98	PK
10600	39.93	-0.61	H	39.32	53.98	14.66	AV
15900	51.18	0.25	H	51.43	73.98	22.55	PK
15900	38.01	0.25	H	38.26	53.98	15.72	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 [dB/m]	POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
10640	52.56	-0.73	V	51.83	73.98	22.15	PK
10640	39.87	-0.73	V	39.14	53.98	14.84	AV
15960	51.50	0.53	V	52.03	73.98	21.95	PK
15960	38.17	0.53	V	38.70	53.98	15.28	AV
10640	52.09	-0.73	H	51.36	73.98	22.62	PK
10640	39.48	-0.73	H	38.75	53.98	15.23	AV
15960	50.91	0.53	H	51.44	73.98	22.54	PK
15960	38.10	0.53	H	38.63	53.98	15.35	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 [dB/m]	POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
11000	52.51	-0.18	V	52.33	73.98	21.65	PK
11000	39.50	-0.18	V	39.32	53.98	14.66	AV
16500	51.49	0.60	V	52.09	68.20	16.11	PK
11000	52.52	-0.18	H	52.34	73.98	21.64	PK
11000	39.43	-0.18	H	39.25	53.98	14.73	AV
16500	51.07	0.60	H	51.67	68.20	16.53	PK
6600	59.60	-4.96	H	54.64	68.20	13.56	PK
6600	58.74	-4.96	V	53.78	68.20	14.42	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	52.68	-1.01	V	51.67	73.98	22.31	PK
11200	39.62	-1.01	V	38.61	53.98	15.37	AV
16800	51.18	-0.07	V	51.11	68.20	17.09	PK
11200	52.01	-1.01	H	51.00	73.98	22.98	PK
11200	39.54	-1.01	H	38.53	53.98	15.45	AV
16800	50.91	-0.07	H	50.84	68.20	17.36	PK
6715	64.32	-5.16	H	59.16	68.20	9.04	PK
6715	63.78	-5.16	V	58.62	68.20	9.58	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	52.73	-0.52	V	52.21	73.98	21.77	PK
11440	40.20	-0.52	V	39.68	53.98	14.30	AV
17160	52.28	0.64	V	52.92	68.20	15.28	PK
11440	53.36	-0.52	H	52.84	73.98	21.14	PK
11440	40.08	-0.52	H	39.56	53.98	14.42	AV
17160	50.73	0.64	H	51.37	68.20	16.83	PK
6863	59.90	-5.48	H	54.42	68.20	13.78	PK
6863	58.63	-5.48	V	53.15	68.20	15.05	PK

Band :	UNII 3
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5745MHz
Channel No.	149 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
11490	51.80	-0.38	V	51.42	73.98	22.56	PK
11490	39.38	-0.38	V	39.00	53.98	14.98	AV
17235	51.39	1.04	V	52.43	68.20	15.77	PK
11490	51.93	-0.38	H	51.55	73.98	22.43	PK
11490	39.48	-0.38	H	39.10	53.98	14.88	AV
17235	50.64	1.04	H	51.68	68.20	16.52	PK
6893	60.40	-5.59	H	54.81	68.20	13.39	PK
6893	60.22	-5.59	V	54.63	68.20	13.57	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 [dBµV]	CL+AF+DF-AG [dB/m]	POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
11570	52.66	-0.29	V	52.37	73.98	21.62	PK
11570	39.36	-0.29	V	39.07	53.98	14.92	AV
17355	50.95	1.14	V	52.09	68.20	16.12	PK
11570	52.08	-0.29	H	51.79	73.98	22.20	PK
11570	39.96	-0.29	H	39.67	53.98	14.32	AV
17355	51.23	1.14	H	52.37	68.20	15.84	PK
6942	60.26	-5.93	H	54.33	68.20	13.87	PK
6942	59.94	-5.93	V	54.01	68.20	14.19	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 [dBµV]	CL+AF+DF-AG [dB/m]	POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
11650	52.08	-1.16	V	50.92	73.98	23.06	PK
11650	39.26	-1.16	V	38.10	53.98	15.88	AV
17475	50.55	2.16	V	52.71	68.20	15.49	PK
11650	52.07	-1.16	H	50.91	73.98	23.07	PK
11650	39.91	-1.16	H	38.75	53.98	15.23	AV
17475	50.61	2.16	H	52.77	68.20	15.43	PK
6989	60.13	-5.55	H	54.58	68.20	13.62	PK
6989	58.61	-5.55	V	53.06	68.20	15.14	PK

Band :	UNII 1
Operation Mode:	802.11n(HT20)
MCS Index:	0
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	51.77	-0.94	V	50.83	68.20	17.37	PK
15540	51.63	1.57	V	53.20	73.98	20.78	PK
15540	39.43	1.57	V	41.00	53.98	12.98	AV
10360	52.31	-0.94	H	51.37	68.20	16.83	PK
15540	50.53	1.57	H	52.10	73.98	21.88	PK
15540	39.33	1.57	H	40.90	53.98	13.08	AV
7769	65.39	-3.88	H	61.51	68.20	6.69	PK
7769	64.75	-3.88	V	60.87	68.20	7.33	PK

Band :	UNII 1
Operation Mode:	802.11n(HT20)
MCS Index:	0
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	51.93	-0.07	V	51.86	68.20	16.34	PK
15600	50.65	1.52	V	52.17	73.98	21.81	PK
15600	39.48	1.52	V	41.00	53.98	12.98	AV
10400	52.13	-0.07	H	52.06	68.20	16.14	PK
15600	50.49	1.52	H	52.01	73.98	21.97	PK
15600	39.59	1.52	H	41.11	53.98	12.87	AV
7800	62.64	-3.72	H	58.92	68.20	9.28	PK
7800	61.33	-3.72	V	57.61	68.20	10.59	PK

Band :	UNII 1
Operation Mode:	802.11n(HT20)
MCS Index:	0
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	52.77	-0.97	V	51.80	68.20	16.40	PK
15720	50.77	0.64	V	51.41	73.98	22.57	PK
15720	39.09	0.64	V	39.73	53.98	14.25	AV
10480	52.63	-0.97	H	51.66	68.20	16.54	PK
15720	50.55	0.64	H	51.19	73.98	22.79	PK
15720	38.69	0.64	H	39.33	53.98	14.65	AV
7860	60.61	-3.85	H	56.76	68.20	11.44	PK
7860	59.88	-3.85	V	56.03	68.20	12.17	PK

Band :	UNII 1
Operation Mode:	802.11n(HT40)
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	52.57	0.62	V	53.19	68.20	15.01	PK
15570	50.37	1.43	V	51.80	73.98	22.19	PK
15570	38.86	1.43	V	40.29	53.98	13.70	AV
10380	52.27	0.62	H	52.89	68.20	15.31	PK
15570	51.01	1.43	H	52.44	73.98	21.55	PK
15570	39.99	1.43	H	41.42	53.98	12.57	AV
7785	63.94	-3.75	H	60.19	68.20	8.01	PK
7785	62.88	-3.75	V	59.13	68.20	9.07	PK

Band :	UNII 1
Operation Mode:	802.11n(HT40)
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	52.37	-0.86	V	51.51	68.20	16.69	PK
15690	50.76	1.08	V	51.84	73.98	22.14	PK
15690	40.19	1.08	V	41.27	53.98	12.71	AV
10460	52.63	-0.86	H	51.77	68.20	16.43	PK
15690	50.93	1.08	H	52.01	73.98	21.97	PK
15690	40.76	1.08	H	41.84	53.98	12.14	AV
7845	61.49	-3.68	H	57.81	68.20	10.39	PK
7845	60.52	-3.68	V	56.84	68.20	11.36	PK

Band :	UNII 1
Operation Mode:	802.11ac(VHT20)
MCS Index:	0
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	53.28	-0.94	V	52.34	68.20	15.86	PK
15540	51.30	1.57	V	52.87	73.98	21.11	PK
15540	40.40	1.57	V	41.97	53.98	12.01	AV
10360	52.63	-0.94	H	51.69	68.20	16.51	PK
15540	51.32	1.57	H	52.89	73.98	21.09	PK
15540	40.42	1.57	H	41.99	53.98	11.99	AV
7769	65.27	-3.88	H	61.39	68.20	6.81	PK
7769	64.35	-3.88	V	60.47	68.20	7.73	PK

Band :	UNII 1
Operation Mode:	802.11ac(VHT20)
MCS Index:	0
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	51.77	-0.07	V	51.70	68.20	16.50	PK
15600	51.41	1.52	V	52.93	73.98	21.05	PK
15600	39.05	1.52	V	40.57	53.98	13.41	AV
10400	51.92	-0.07	H	51.85	68.20	16.35	PK
15600	51.93	1.52	H	53.45	73.98	20.53	PK
15600	39.61	1.52	H	41.13	53.98	12.85	AV
7800	62.56	-3.72	H	58.84	68.20	9.36	PK
7800	61.58	-3.72	V	57.86	68.20	10.34	PK

Band :	UNII 1
Operation Mode:	802.11ac(VHT20)
MCS Index:	0
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	53.03	-0.97	V	52.06	68.20	16.14	PK
15720	50.51	0.64	V	51.15	73.98	22.83	PK
15720	39.16	0.64	V	39.80	53.98	14.18	AV
10480	52.37	-0.97	H	51.40	68.20	16.80	PK
15720	51.08	0.64	H	51.72	73.98	22.26	PK
15720	38.89	0.64	H	39.53	53.98	14.45	AV
7860	60.71	-3.85	H	56.86	68.20	11.34	PK
7860	59.81	-3.85	V	55.96	68.20	12.24	PK

Band :	UNII 1
Operation Mode:	802.11ac(VHT40)
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	52.75	0.62	V	53.37	68.20	14.83	PK
15570	50.29	1.43	V	51.72	73.98	22.27	PK
15570	39.46	1.43	V	40.89	53.98	13.10	AV
10380	52.25	0.62	H	52.87	68.20	15.33	PK
15570	49.59	1.43	H	51.02	73.98	22.97	PK
15570	38.91	1.43	H	40.34	53.98	13.65	AV
7785	63.96	-3.75	H	60.21	68.20	7.99	PK
7785	62.96	-3.75	V	59.21	68.20	8.99	PK

Band :	UNII 1
Operation Mode:	802.11ac(VHT40)
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	52.60	-0.86	V	51.74	68.20	16.46	PK
15690	50.92	1.08	V	52.00	73.98	21.98	PK
15690	40.75	1.08	V	41.83	53.98	12.15	AV
10460	52.11	-0.86	H	51.25	68.20	16.95	PK
15690	50.84	1.08	H	51.92	73.98	22.06	PK
15690	40.11	1.08	H	41.19	53.98	12.79	AV
7845	61.30	-3.68	H	57.62	68.20	10.58	PK
7845	60.35	-3.68	V	56.67	68.20	11.53	PK

Band :	UNII 1
Operation Mode:	802.11ac(VHT80)
MCS Index:	0
Operating Frequency	5210 MHz
Channel No.	42 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
10420	52.45	-1.03	V	51.42	68.20	16.78	PK
15630	50.36	1.10	V	51.46	73.98	22.52	PK
15630	40.64	1.10	V	41.74	53.98	12.24	AV
10420	52.49	-1.03	H	51.46	68.20	16.74	PK
15630	50.22	1.10	H	51.32	73.98	22.66	PK
15630	40.54	1.10	H	41.64	53.98	12.34	AV
7815	62.24	-3.75	H	58.49	68.20	9.71	PK
7815	61.58	-3.75	V	57.83	68.20	10.37	PK

Band :	UNII 1
Operation Mode:	802.11ac(VHT160)
MCS Index:	0
Operating Frequency	5250 MHz
Channel No.	50 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
10500	52.55	-1.03	V	51.52	68.20	16.68	PK
15750	50.11	1.10	V	51.21	73.98	22.77	PK
15750	39.62	1.10	V	40.72	53.98	13.26	AV
10500	53.80	-1.03	H	52.77	68.20	15.43	PK
15750	50.18	1.10	H	51.28	73.98	22.70	PK
15750	38.86	1.10	H	39.96	53.98	14.02	AV
6999	67.92	-6.16	H	61.76	68.20	6.44	PK
6999	66.82	-6.16	V	60.66	68.20	7.54	PK

[DBS Mode]

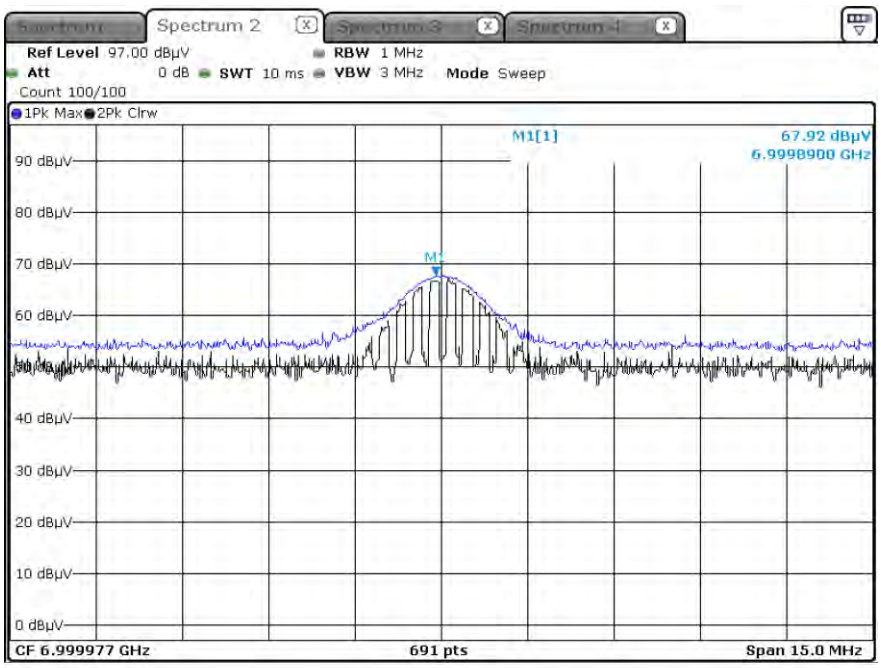
WLAN/BT Ant : Bluetooth (GFSK) CH.0 & 802.11a 6 Mbps ch.36

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	52.75	-0.94	V	51.81	68.20	16.39	PK
15540	50.87	1.57	V	52.44	73.98	21.54	PK
15540	40.12	1.57	V	41.69	53.98	12.29	AV
10360	53.58	-0.94	H	52.64	68.20	15.56	PK
15540	51.62	1.57	H	53.19	73.98	20.79	PK
15540	41.24	1.57	H	42.81	53.98	11.17	AV
7769	63.93	-3.88	H	60.05	68.20	8.15	PK
7769	62.89	-3.88	V	59.01	68.20	9.19	PK

▣ Test Plots

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

Peak Result (802.11ac(VHT160), Ch.50 Spurious Emissions Y-H)



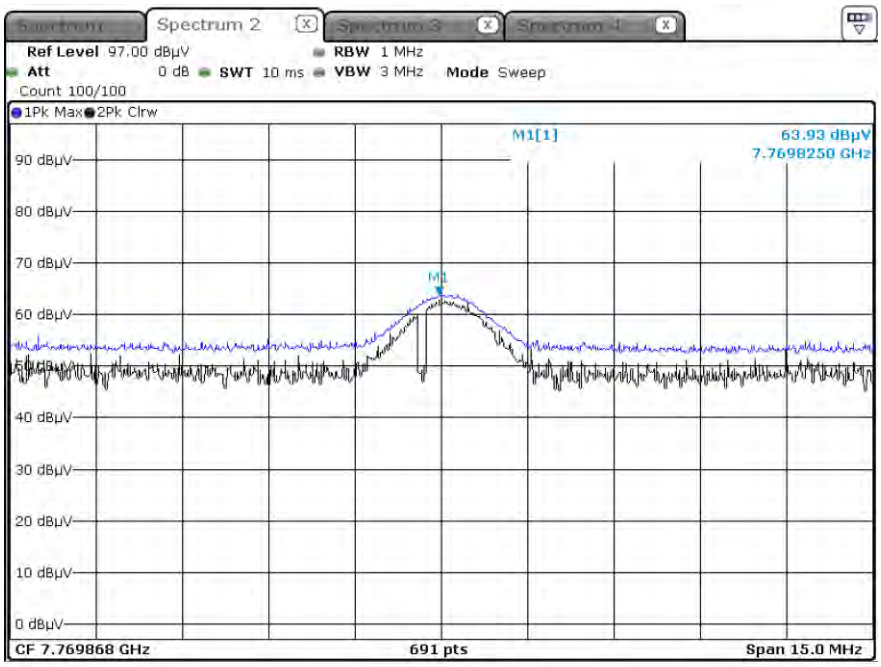
Note:

Only the worst case plots for Radiated Spurious Emissions.

RESULT PLOTS(DBS)

WLAN/BT Ant : Bluetooth (GFSK) CH.0 & 802.11a 6 Mbps ch.36

Radiated Spurious Emissions plot – Peak Result (Spurious Emissions Y-H)



Note:

Only the worst case plots for Radiated Spurious Emissions.

10.8 RADIATED RESTRICTED BAND EDGE

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

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	44.70	13.64	H	58.34	73.98	15.64	PK
5150	30.81	13.64	H	44.45	53.98	9.53	AV
5150	43.20	13.64	V	56.84	73.98	17.14	PK
5150	30.49	13.64	V	44.13	53.98	9.85	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	43.31	14.22	H	57.53	73.98	16.45	PK
5350	30.18	14.22	H	44.40	53.98	9.58	AV
5350	42.59	14.22	V	56.81	73.98	17.17	PK
5350	30.05	14.22	V	44.27	53.98	9.71	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	40.48	14.69	H	55.17	73.98	18.81	PK
5460	28.71	14.69	H	43.40	53.98	10.58	AV
5470	41.38	15.03	H	56.41	68.20	11.79	PK
5460	39.05	14.69	V	53.74	73.98	20.24	PK
5460	28.40	14.69	V	43.09	53.98	10.89	AV
5470	40.52	15.03	V	55.55	68.20	12.65	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 [dBµV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5150	45.76	13.64	H	59.40	73.98	14.58	PK
5150	30.81	13.64	H	44.45	53.98	9.53	AV
5150	44.92	13.64	V	58.56	73.98	15.42	PK
5150	30.29	13.64	V	43.93	53.98	10.05	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 [dBµV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5350	43.18	14.22	H	57.40	73.98	16.58	PK
5350	30.19	14.22	H	44.41	53.98	9.57	AV
5350	41.98	14.22	V	56.2	73.98	17.78	PK
5350	30.06	14.22	V	44.28	53.98	9.70	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 [dBµV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5460	41.26	14.69	H	55.95	73.98	18.03	PK
5460	28.71	14.69	H	43.40	53.98	10.58	AV
5470	41.82	15.03	H	56.85	68.20	11.35	PK
5460	40.02	14.69	V	54.71	73.98	19.27	PK
5460	28.44	14.69	V	43.13	53.98	10.85	AV
5470	41.51	15.03	V	56.54	68.20	11.66	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	43.68	13.64	H	57.32	73.98	16.66	PK
5150	31.49	13.64	H	45.13	53.98	8.85	AV
5150	42.72	13.64	V	56.36	73.98	17.62	PK
5150	31.05	13.64	V	44.69	53.98	9.29	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	43.59	14.22	H	57.81	73.98	16.17	PK
5350	30.42	14.22	H	44.64	53.98	9.34	AV
5350	42.92	14.22	V	57.14	73.98	16.84	PK
5350	30.09	14.22	V	44.31	53.98	9.67	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 [dBµV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5460	40.07	14.69	H	54.76	73.98	19.22	PK
5460	29.76	14.69	H	44.45	53.98	9.53	AV
5470	41.13	15.03	H	56.16	68.20	12.04	PK
5460	39.56	14.69	V	54.25	73.98	19.73	PK
5460	29.39	14.69	V	44.08	53.98	9.90	AV
5470	40.82	15.03	V	55.85	68.20	12.35	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	43.67	13.64	H	57.31	73.98	16.67	PK
5150	32.27	13.64	H	45.91	53.98	8.07	AV
5150	42.49	13.64	V	56.13	73.98	17.85	PK
5150	31.97	13.64	V	45.61	53.98	8.37	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	41.31	14.22	H	55.53	73.98	18.45	PK
5350	29.93	14.22	H	44.15	53.98	9.83	AV
5350	40.72	14.22	V	54.94	73.98	19.04	PK
5350	29.37	14.22	V	43.59	53.98	10.39	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 [dBµV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5460	42.18	14.69	H	56.87	73.98	17.11	PK
5460	29.21	14.69	H	43.90	53.98	10.08	AV
5470	41.59	15.03	H	56.62	68.20	11.58	PK
5460	40.05	14.69	V	54.74	73.98	19.24	PK
5460	28.98	14.69	V	43.67	53.98	10.31	AV
5470	41.10	15.03	V	56.13	68.20	12.07	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 [dBµV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5150	43.04	13.64	H	56.68	73.98	17.30	PK
5150	31.85	13.64	H	45.49	53.98	8.49	AV
5150	42.59	13.64	V	56.23	73.98	17.75	PK
5150	31.16	13.64	V	44.8	53.98	9.18	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	41.30	14.22	H	55.52	73.98	18.46	PK
5350	29.93	14.22	H	44.15	53.98	9.83	AV
5350	40.95	14.22	V	55.17	73.98	18.81	PK
5350	29.80	14.22	V	44.02	53.98	9.96	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	38.53	14.69	H	53.22	73.98	20.76	PK
5460	29.51	14.69	H	44.20	53.98	9.78	AV
5470	40.82	15.03	H	55.85	68.20	12.35	PK
5460	38.26	14.69	V	52.95	73.98	21.03	PK
5460	28.85	14.69	V	43.54	53.98	10.44	AV
5470	40.07	15.03	V	55.1	68.20	13.10	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	42.90	13.64	H	56.54	73.98	17.44	PK
5150	31.99	13.64	H	45.63	53.98	8.35	AV
5150	41.48	13.64	V	55.12	73.98	18.86	PK
5150	31.43	13.64	V	45.07	53.98	8.91	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	41.21	14.22	H	55.43	73.98	18.55	PK
5350	31.12	14.22	H	45.34	53.98	8.64	AV
5350	40.72	14.22	V	54.94	73.98	19.04	PK
5350	30.72	14.22	V	44.94	53.98	9.04	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 [dBµV]	CL+AF+DF-AG+ATT [dB/m]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5460	39.25	14.69	H	53.94	73.98	20.04	PK
5460	29.37	14.69	H	44.06	53.98	9.92	AV
5470	40.83	15.03	H	55.86	68.20	12.34	PK
5460	39.01	14.69	V	53.70	73.98	20.28	PK
5460	28.92	14.69	V	43.61	53.98	10.37	AV
5470	40.47	15.03	V	55.5	68.20	12.70	PK

Band :	UNII 1
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	42.50	13.64	H	56.14	73.98	17.84	PK
5150	32.12	13.64	H	45.76	53.98	8.22	AV
5150	43.16	13.64	V	56.8	73.98	17.18	PK
5150	32.54	13.64	V	46.18	53.98	7.80	AV

Band :	UNII 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	41.08	14.22	H	55.30	73.98	18.68	PK
5350	30.15	14.22	H	44.37	53.98	9.61	AV
5350	41.47	14.22	V	55.69	73.98	18.29	PK
5350	30.27	14.22	V	44.49	53.98	9.49	AV

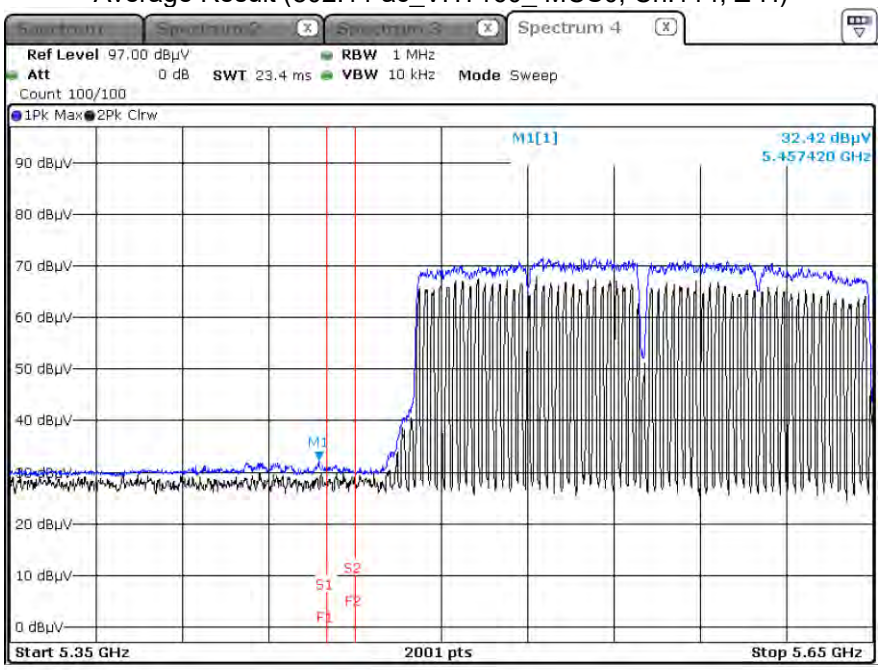
Band :	UNII 2C
Operation Mode:	802.11 ac_VHT160
Transfer MCS Index:	0
Operating Frequency	5570 MHz
Channel No.	114 Ch

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	43.57	14.69	H	58.26	73.98	15.72	PK
5460	32.42	14.69	H	47.11	53.98	6.87	AV
5470	43.41	15.03	H	58.44	68.20	9.76	PK
5460	42.77	14.69	V	57.46	73.98	16.52	PK
5460	31.69	14.69	V	46.38	53.98	7.60	AV
5470	42.05	15.03	V	57.08	68.20	11.12	PK

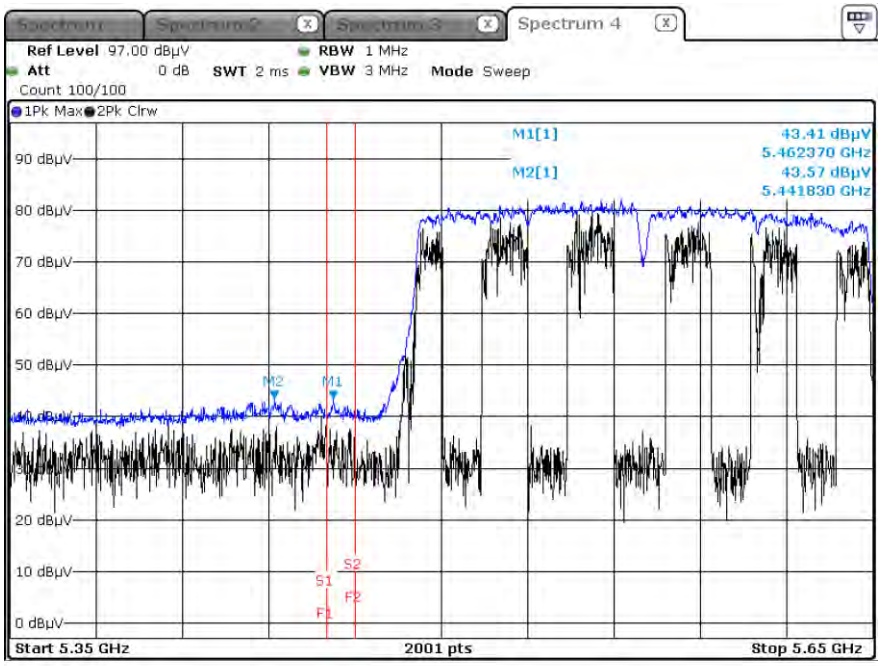
[Ant.1&Ant.2_MIMO(CDD)]

▣ Test Plots(UNII 1, 2A, 2C)

Average Result (802.11 ac_VHT160_ MCS0, Ch.114, Z-H)



Peak Result (802.11 ac_VHT160_ MCS0, Ch.114, Z-H)

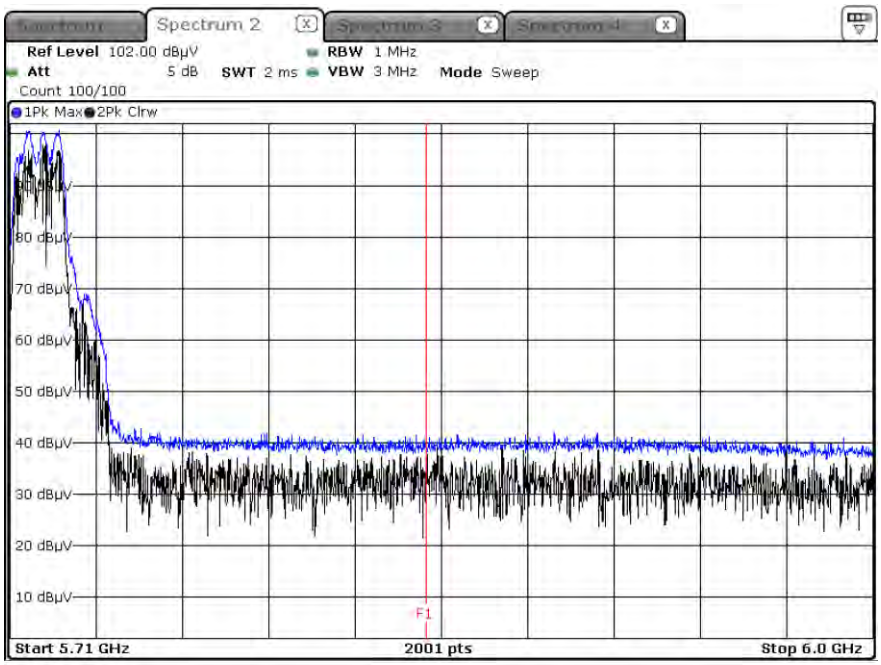


Note:

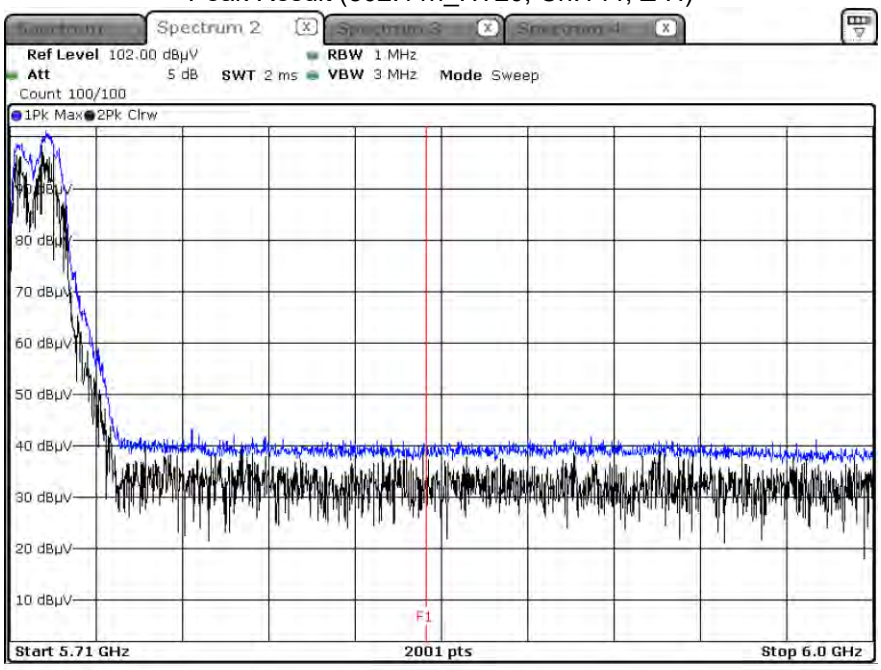
Only the worst case plots for Radiated Restricted Band Edge.

▣ Test Plots(Straddle Channel)

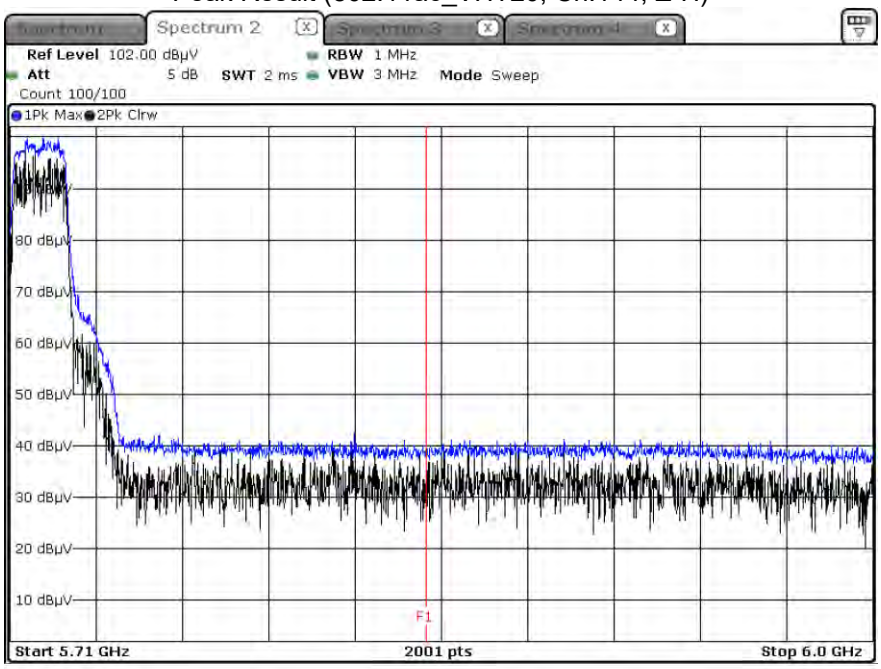
Peak Result (802.11a, Ch.144, Z-H)



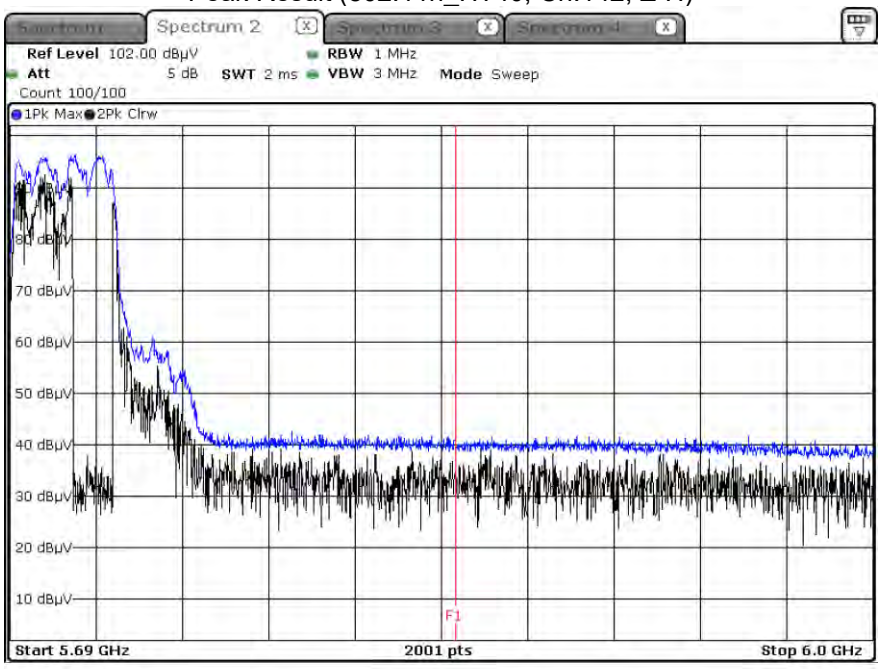
Peak Result (802.11n_HT20, Ch.144, Z-H)



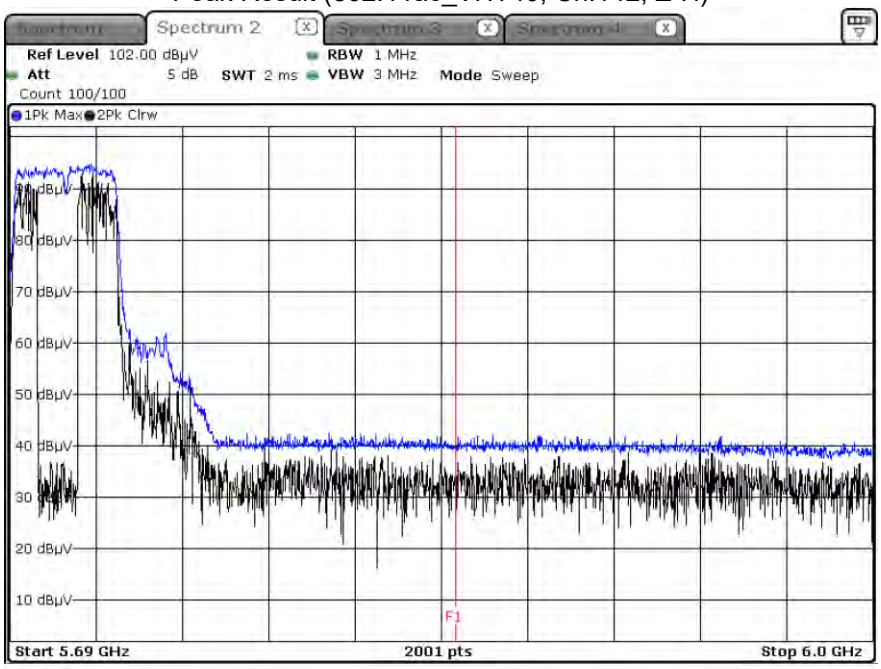
Peak Result (802.11ac_VHT20, Ch.144, Z-H)



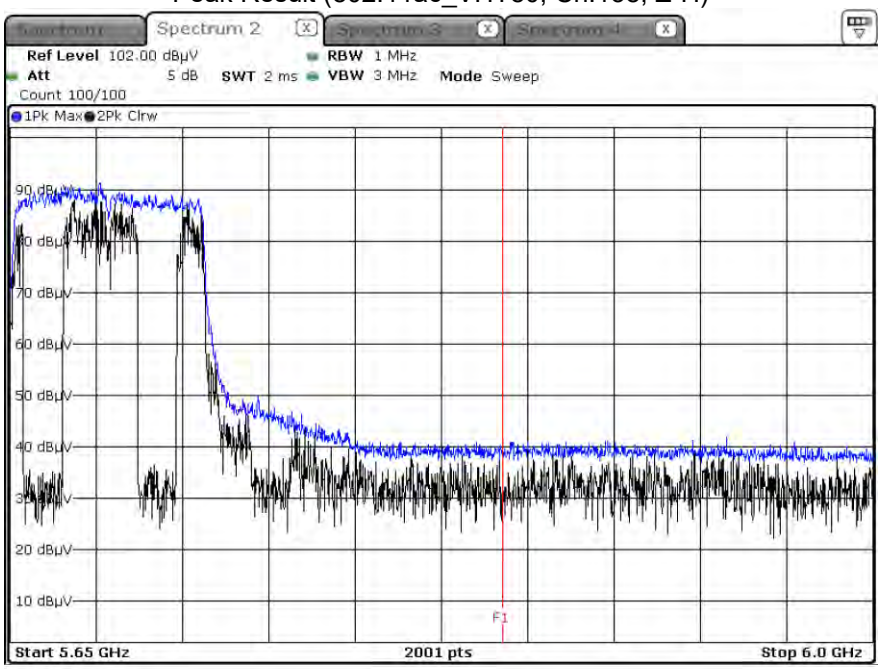
Peak Result (802.11n_HT40, Ch.142, Z-H)



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



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

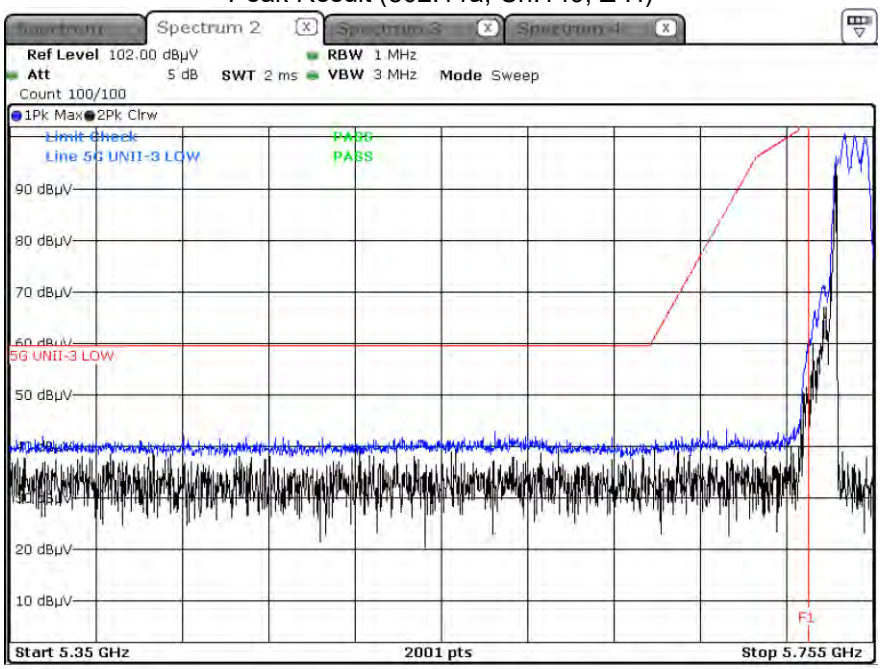


Note :

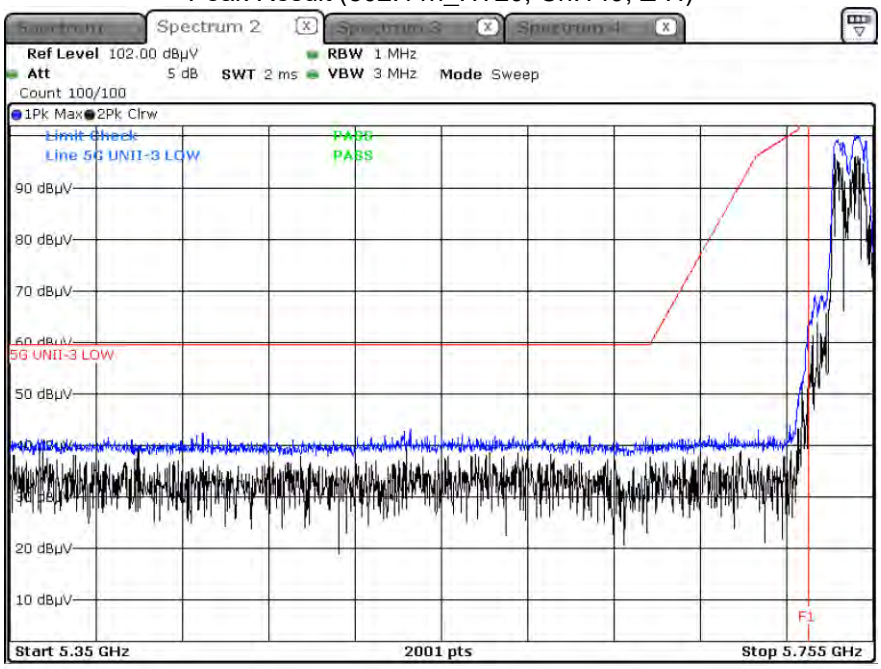
1. Only the worst case plots for Radiated Restricted Band Edge.
2. Red line : 5 850 MHz
3. Ambient Noise (Because of ambient noise, We attached only the worst plot without a data table)

▣ Test Plots(UNII 3)

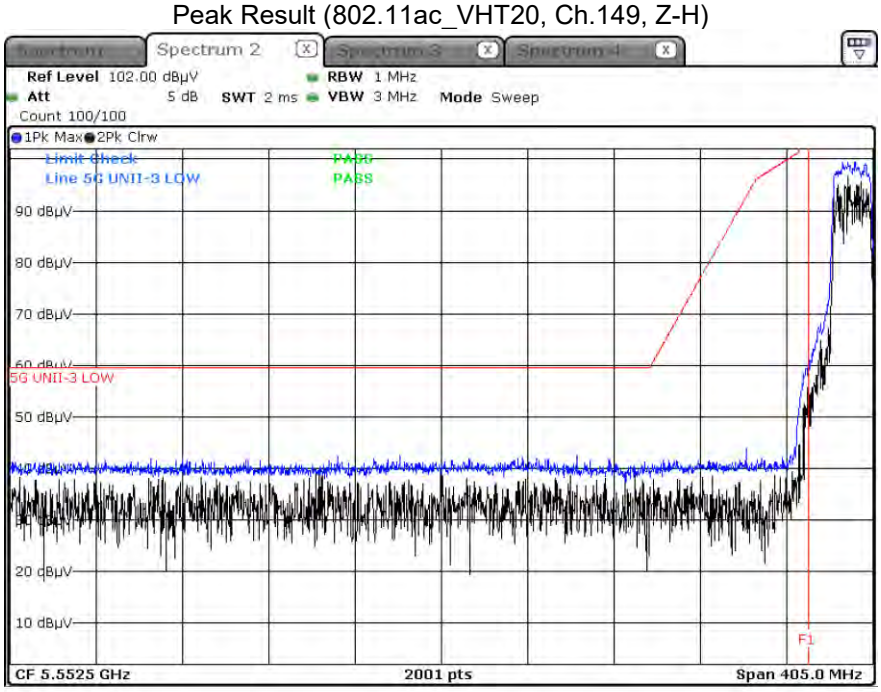
Peak Result (802.11a, Ch.149, Z-H)



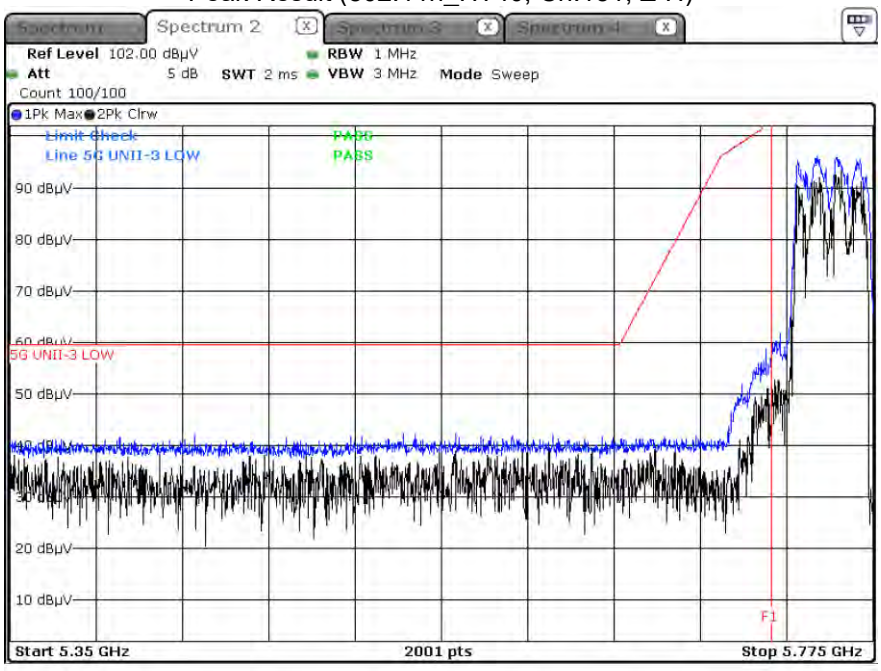
Peak Result (802.11n_HT20, Ch.149, Z-H)



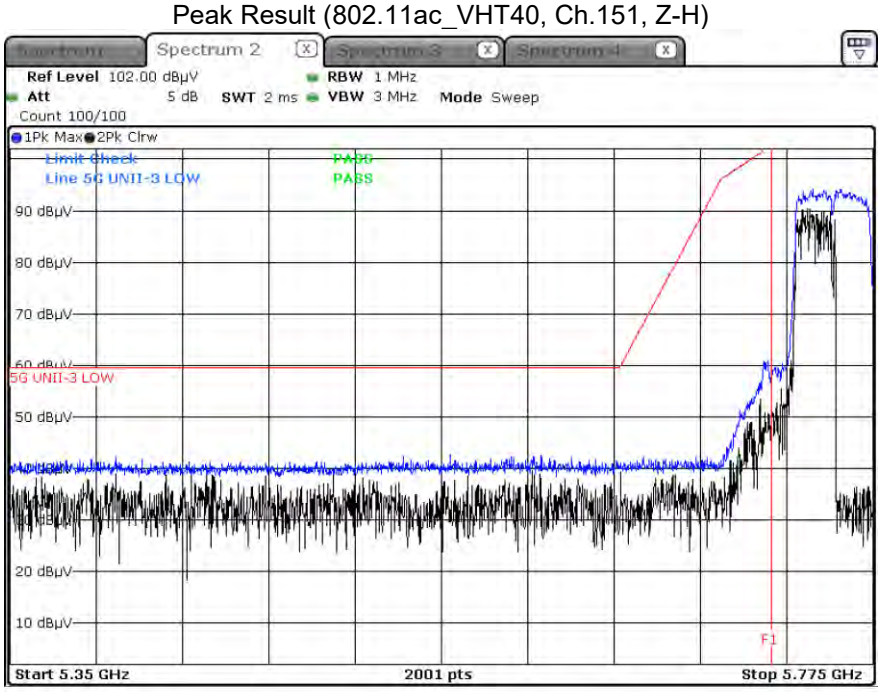
Peak Result (802.11ac_VHT20, Ch.149, Z-H)



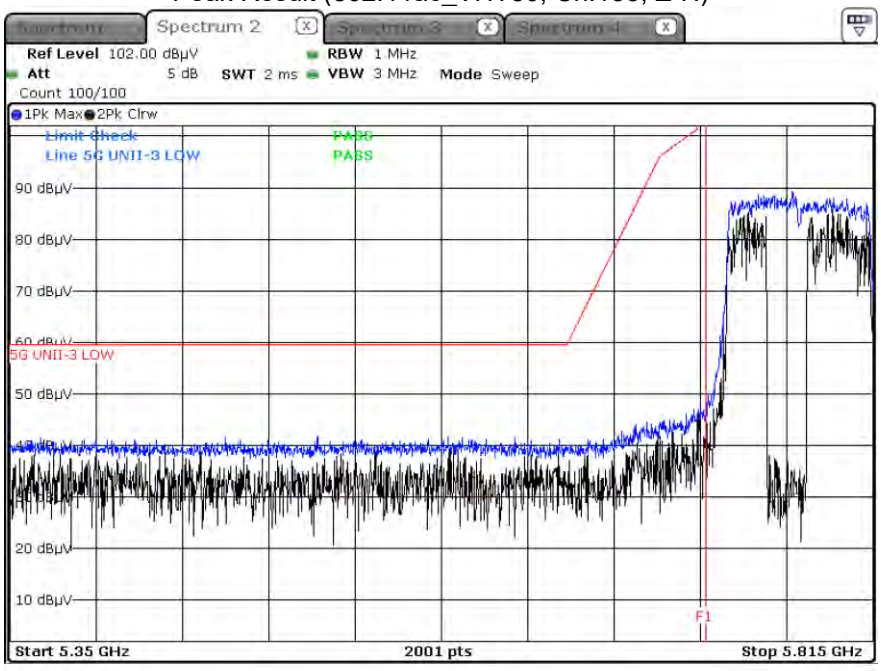
Peak Result (802.11n_HT40, Ch.151, Z-H)



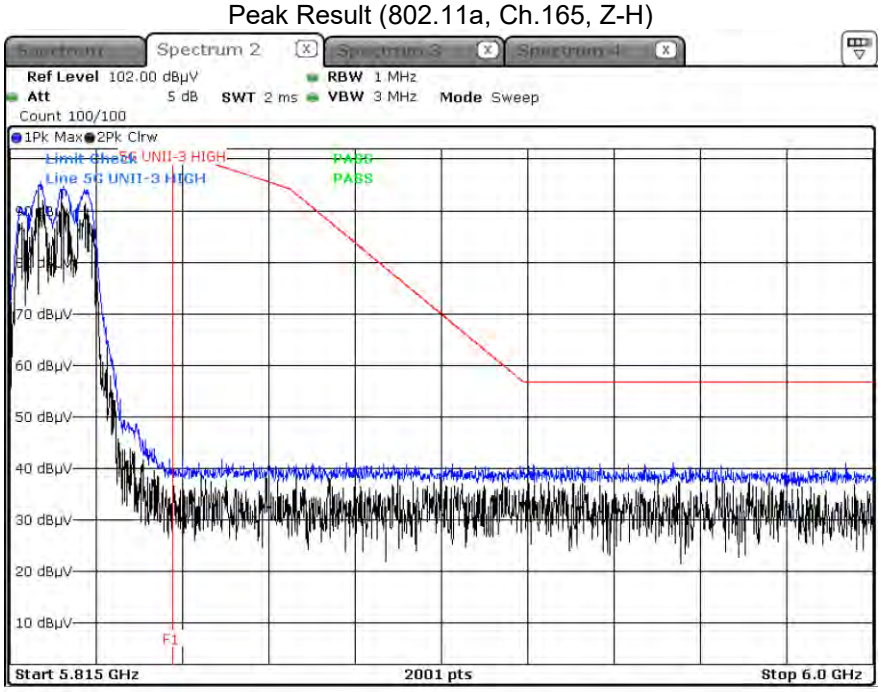
Peak Result (802.11ac_VHT40, Ch.151, Z-H)



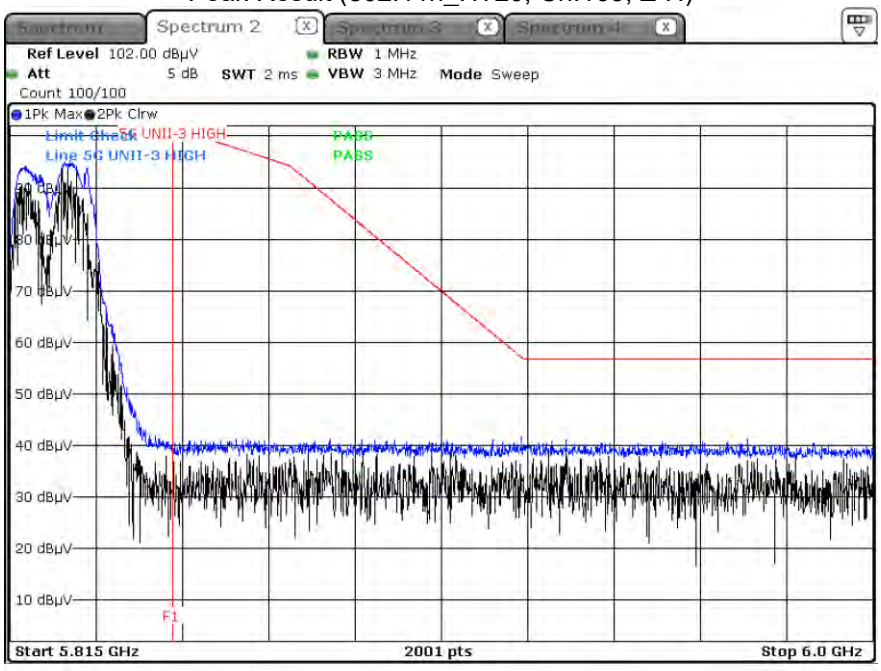
Peak Result (802.11ac_VHT80, Ch.155, Z-H)



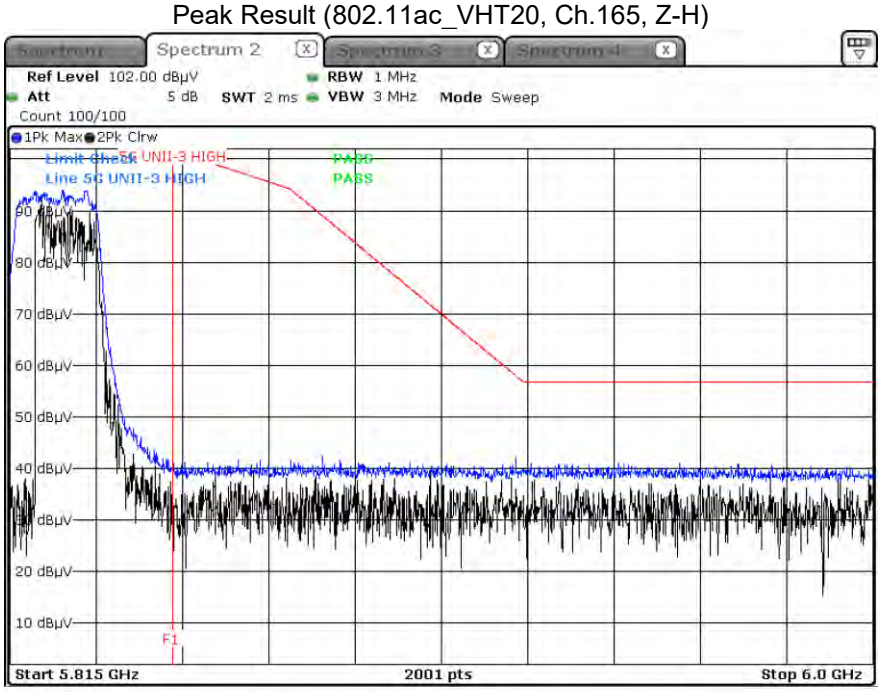
Peak Result (802.11a, Ch.165, Z-H)



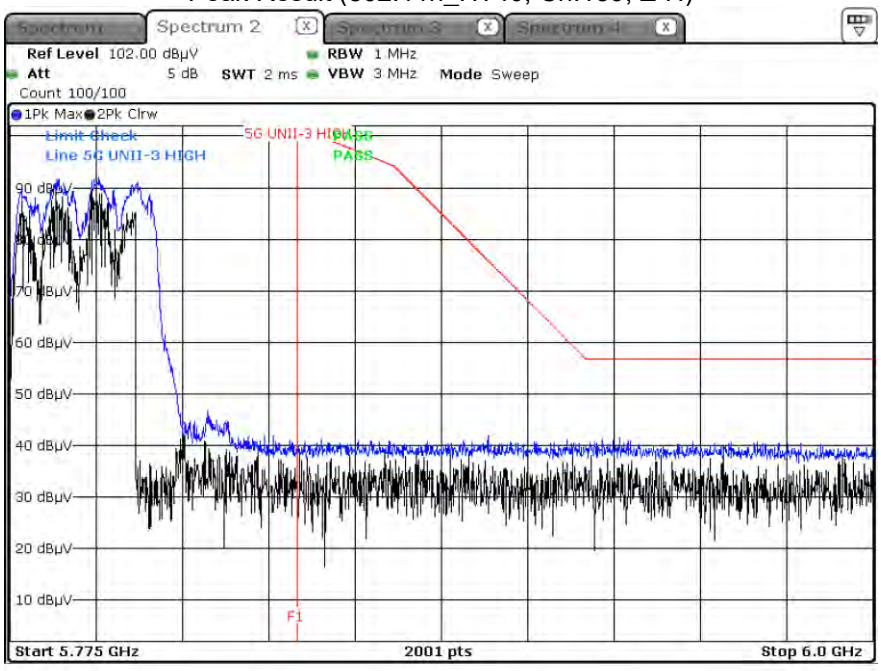
Peak Result (802.11n_HT20, Ch.165, Z-H)



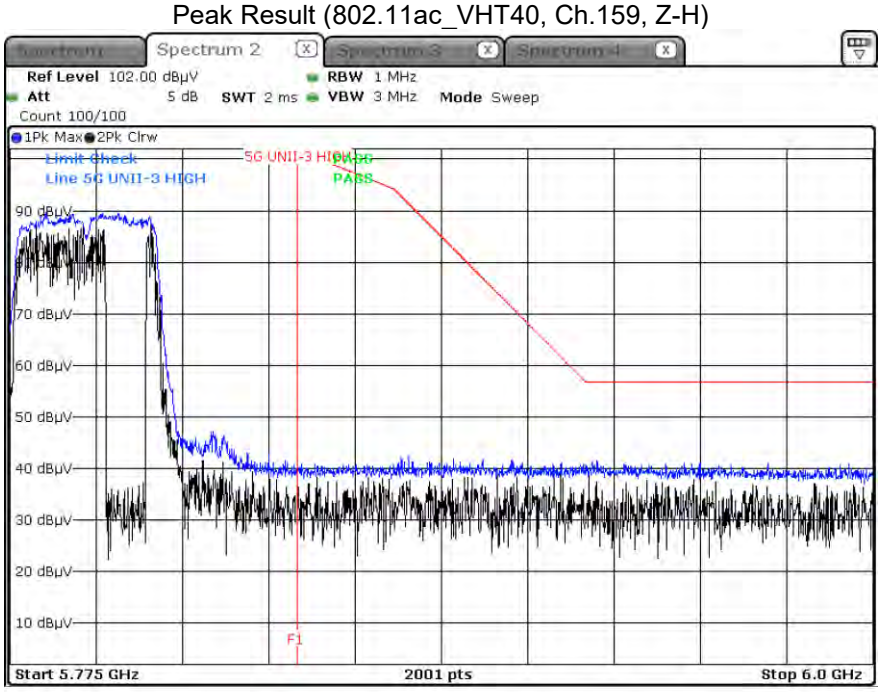
Peak Result (802.11ac_VHT20, Ch.165, Z-H)



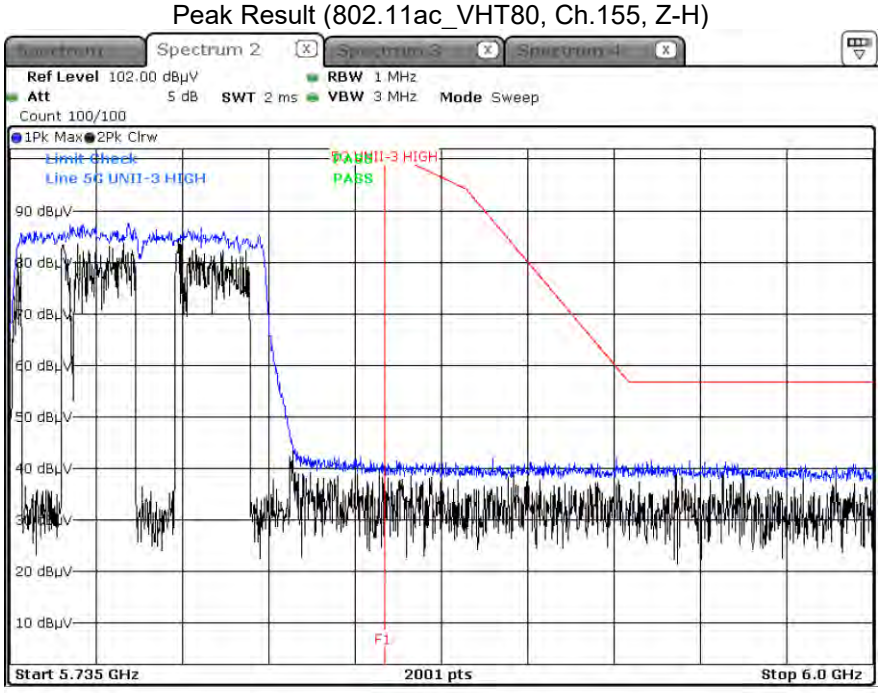
Peak Result (802.11n_HT40, Ch.159, Z-H)



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.

10.9 POWERLINE CONDUCTED EMISSIONS

Conducted Emissions (Line 1)

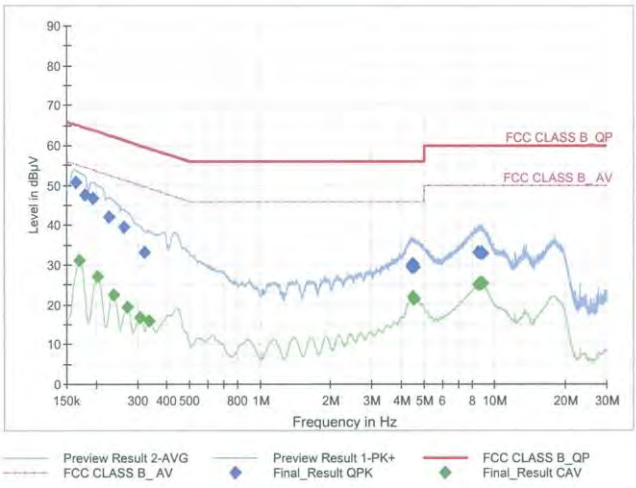
5G WLAN L1 1 / 2

Test Report

Common Information

EUT :	SM-G736B/DS
Manufacturer :	SAMSUNG
Test Site:	SHIELD ROOM
Operating Conditions :	5G WLAN L1

Full Spectrum



Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.1635	50.66	65.28	14.62	9.000	L1	OFF	9.6
0.1793	47.65	64.52	16.87	9.000	L1	OFF	9.6
0.1950	46.71	63.82	17.11	9.000	L1	OFF	9.6
0.2265	42.10	62.58	20.48	9.000	L1	OFF	9.6
0.2625	39.55	61.35	21.80	9.000	L1	OFF	9.6
0.3233	33.31	59.62	26.32	9.000	L1	OFF	9.6
4.4083	29.36	56.00	26.64	9.000	L1	OFF	9.8
4.4240	29.94	56.00	26.06	9.000	L1	OFF	9.8
4.4285	30.11	56.00	25.89	9.000	L1	OFF	9.8
4.4578	30.30	56.00	25.70	9.000	L1	OFF	9.8
4.4735	30.29	56.00	25.71	9.000	L1	OFF	9.8
4.5455	29.34	56.00	26.66	9.000	L1	OFF	9.8
8.5348	33.06	60.00	26.94	9.000	L1	OFF	10.0
8.6990	32.79	60.00	27.21	9.000	L1	OFF	10.0
8.7823	33.05	60.00	26.95	9.000	L1	OFF	10.0
8.8295	33.26	60.00	26.74	9.000	L1	OFF	10.0
8.8520	33.12	60.00	26.88	9.000	L1	OFF	10.0
8.8655	32.94	60.00	27.06	9.000	L1	OFF	10.0

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5G WLAN L1 2 / 2

Final_Result_CAV

Frequency (MHz)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.1703	31.05	54.95	23.90	9.000	L1	OFF	9.6
0.2040	27.00	53.45	26.45	9.000	L1	OFF	9.6
0.2378	22.44	52.17	29.74	9.000	L1	OFF	9.6
0.2715	19.24	51.07	31.83	9.000	L1	OFF	9.6
0.3098	16.78	49.98	33.20	9.000	L1	OFF	9.6
0.3390	15.85	49.23	33.38	9.000	L1	OFF	9.6
4.4578	21.95	46.00	24.05	9.000	L1	OFF	9.8
4.4623	22.04	46.00	23.96	9.000	L1	OFF	9.8
4.4735	22.02	46.00	23.98	9.000	L1	OFF	9.8
4.4893	21.94	46.00	24.06	9.000	L1	OFF	9.8
4.5185	21.66	46.00	24.34	9.000	L1	OFF	9.8
4.5568	21.25	46.00	24.75	9.000	L1	OFF	9.8
8.5348	25.19	50.00	24.81	9.000	L1	OFF	10.0
8.5798	25.34	50.00	24.66	9.000	L1	OFF	10.0
8.6630	25.21	50.00	24.79	9.000	L1	OFF	10.0
8.6968	25.25	50.00	24.75	9.000	L1	OFF	10.0
8.7868	25.42	50.00	24.58	9.000	L1	OFF	10.0
8.8543	25.43	50.00	24.57	9.000	L1	OFF	10.0

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Conducted Emissions (Line 2)

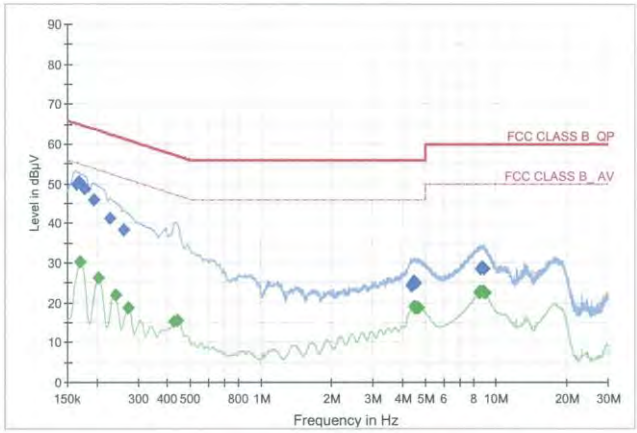
5G WLAN N 1 / 2

Test Report

Common Information

EUT :	SM-G736B/DS
Manufacturer :	SAMSUNG
Test Site:	SHIELD ROOM
Operating Conditions :	5G WLAN N

Full Spectrum



Preview Result 2-AVG
FCC CLASS B_AV
Preview Result 1-PK+
Final_Result QPK
FCC CLASS B_QP
Final_Result CAV

Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.1635	49.94	65.28	15.35	9.000	N	OFF	9.6
0.1680	50.41	65.06	14.65	9.000	N	OFF	9.6
0.1770	48.88	64.63	15.75	9.000	N	OFF	9.6
0.1950	45.79	63.82	18.03	9.000	N	OFF	9.6
0.2265	41.31	62.58	21.27	9.000	N	OFF	9.6
0.2603	38.49	61.42	22.94	9.000	N	OFF	9.6
4.3588	24.24	56.00	31.76	9.000	N	OFF	9.8
4.3745	24.54	56.00	31.46	9.000	N	OFF	9.8
4.4893	25.34	56.00	30.66	9.000	N	OFF	9.8
4.5253	25.09	56.00	30.91	9.000	N	OFF	9.8
4.5388	25.04	56.00	30.96	9.000	N	OFF	9.8
4.5568	24.90	56.00	31.10	9.000	N	OFF	9.8
8.6090	28.58	60.00	31.42	9.000	N	OFF	10.0
8.6878	28.84	60.00	31.16	9.000	N	OFF	10.0
8.7958	28.92	60.00	31.08	9.000	N	OFF	10.0
8.8588	28.65	60.00	31.35	9.000	N	OFF	10.0
8.8813	28.56	60.00	31.44	9.000	N	OFF	10.0
8.8903	28.64	60.00	31.36	9.000	N	OFF	10.0

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5G WLAN N 2 / 2

Final_Result_CAV

Frequency (MHz)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.1703	30.32	54.95	24.63	9.000	N	OFF	9.6
0.2040	26.15	53.45	27.30	9.000	N	OFF	9.6
0.2400	21.85	52.10	30.24	9.000	N	OFF	9.6
0.2715	18.70	51.07	32.37	9.000	N	OFF	9.6
0.4268	15.37	47.32	31.95	9.000	N	OFF	9.7
0.4403	15.57	47.06	31.49	9.000	N	OFF	9.7
4.4938	19.06	46.00	26.94	9.000	N	OFF	9.8
4.5028	19.05	46.00	26.95	9.000	N	OFF	9.8
4.5275	18.94	46.00	27.06	9.000	N	OFF	9.8
4.5500	18.84	46.00	27.16	9.000	N	OFF	9.8
4.5635	18.78	46.00	27.22	9.000	N	OFF	9.8
4.6693	18.89	46.00	27.11	9.000	N	OFF	9.8
8.4785	22.51	50.00	27.49	9.000	N	OFF	10.0
8.5145	22.77	50.00	27.23	9.000	N	OFF	10.0
8.5910	22.75	50.00	27.25	9.000	N	OFF	10.0
8.7980	22.88	50.00	27.12	9.000	N	OFF	10.0
8.8970	22.74	50.00	27.26	9.000	N	OFF	10.0
8.9915	22.44	50.00	27.56	9.000	N	OFF	10.0

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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	08/23/2022	Annual
EMI Test Receiver	ESR	Rohde & Schwarz	101910	06/17/2022	Annual
Temperature Chamber	SU-642	ESPEC	0093008124	03/04/2023	Annual
Signal Analyzer	N9030A	Agilent	MY49431210	01/11/2023	Annual
Power Measurement Set	OSP 120	Rohde & Schwarz	101231	07/02/2022	Annual
Power Meter	N1911A	Agilent	MY45100523	03/24/2023	Annual
Power Sensor	N1921A	Keysight	MY57820067	03/24/2023	Annual
Directional Coupler	87300B	Agilent	3116A03621	11/02/2022	Annual
Power Splitter	11667B	Hewlett Packard	05001	05/20/2022	Annual
DC Power Supply	E3646A	Agilent	MY40002937	12/14/2022	Annual
Attenuator(10 dB)	8493C	Hewlett Packard	07560	06/18/2022	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	02/22/2023	Biennial
Horn Antenna	BBHA 9120D	Schwarzbeck	02299	05/19/2022	Biennial
Horn Antenna (15GHz ~ 40 GHz)	BBHA9170	Schwarzbeck	BBHA9170342	10/13/2022	Biennial
Spectrum Analyzer	FSV40-N	Rohde & Schwarz	102168	07/05/2022	Annual
Signal Analyzer	N9030A	Agilent	MY49431210	01/11/2023	Annual
Band Reject Filter	WRCJV12-4900-5100-5900-6100-50SS	Wainwright Instruments	5	06/24/2022	Annual
Band Reject Filter	WRCJV12-4900-5100-5900-6100-50SS	Wainwright Instruments	6	06/24/2022	Annual
Band Reject Filter	WRCJV2400/2483.5-2370/2520-60/12SS	Wainwright Instruments	2	01/06/2023	Annual
Band Reject Filter	WRCJV5100/5850-40/50-8EEK	Wainwright Instruments	1	02/072023	Annual
High Pass Filter	WHK3.0/18G-10EF	Wainwright Instruments	8	01/21/2023	Annual
High Pass Filter	WHKX8-6090-7000-18000-40SS	Wainwright Instruments	25	01/21/2023	Annual
Attenuator (3 dB)	18B-03	Api tech.	1	01/21/2023	Annual
Attenuator(10 dB)	8493C-10	Agilent	08285	01/21/2023	Annual
Power Amplifier	CBLU1183540	CERNEX	22964	01/21/2023	Annual
Power Amplifier	CBL06185030	CERNEX	22965	01/21/2023	Annual
Power Amplifier	CBL18265035	CERNEX	22966	12/02/2022	Annual
Power Amplifier	CBL26405040	CERNEX	25956	03/11/2023	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-2205-FC003-P