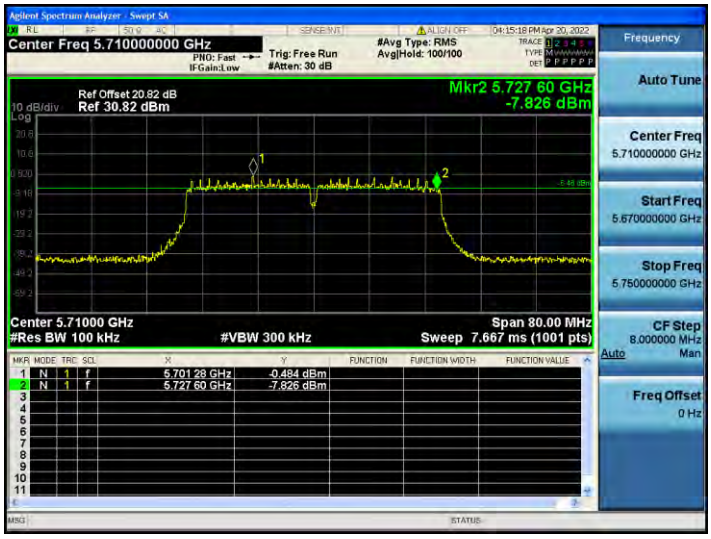
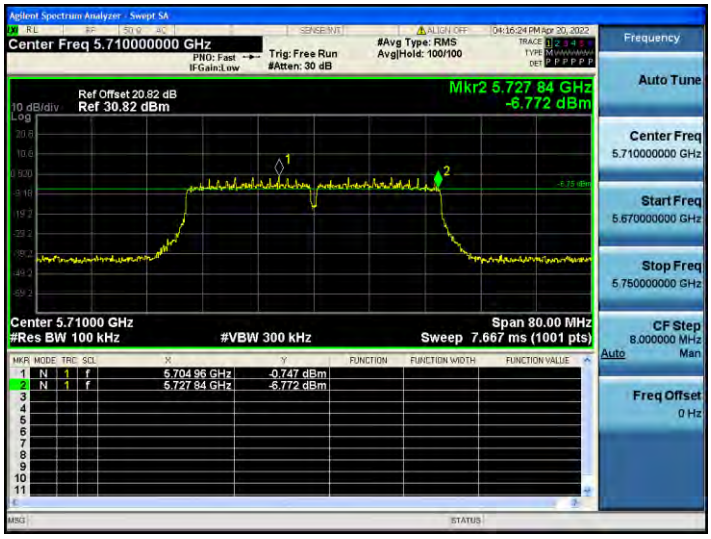
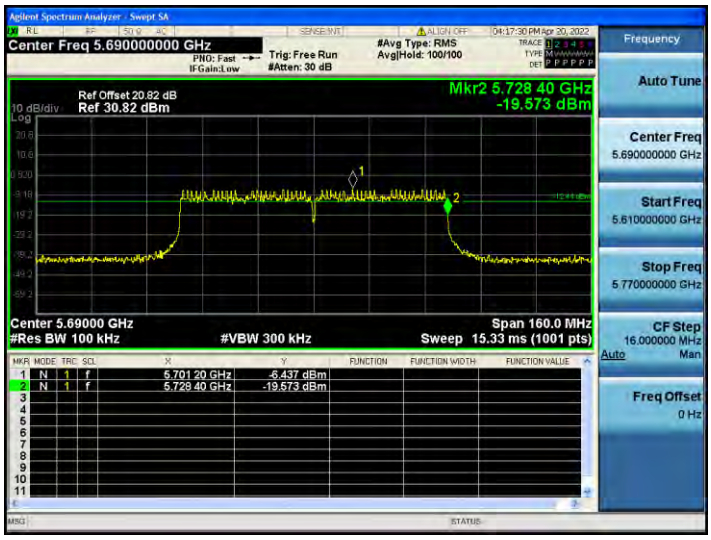
802.11n_HT40 CH.142	802.11ac_VHT40 CH.142
	

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 (UNII 2C Band)	144	14.41	1.027	15.44	22.73	24 Mbps
802.11n(HT20)			13.55	1.877	15.42	22.89	MCS5
802.11ac(VHT20)			12.39	1.883	14.27	22.94	MCS6
802.11a	5720 (UNII 3 Band)	144	8.55	1.027	9.58	30.00	24 Mbps
802.11n(HT20)			8.09	1.877	9.97	30.00	MCS5
802.11ac(VHT20)			6.95	1.883	8.84	30.00	MCS6

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	12.95	1.181	14.13	23.98	MCS1
802.11ac(VHT40)			12.96	1.165	14.13	23.98	MCS1
802.11n(HT40)	5710 (UNII 3 Band)	142	2.13	1.181	3.31	30.00	MCS1
802.11ac(VHT40)			2.16	1.165	3.33	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	8.00	3.703	11.70	23.98	MCS6
	5690 (UNII 3 Band)	138	-4.46	3.703	-0.76	30.00	MCS6

[Ant.2]

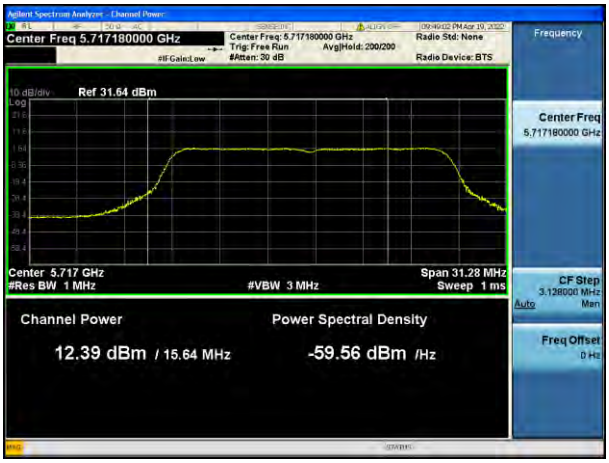
Mode	Frequency [MHz]	Channel	Measured Power [dBm]	Duty Cycle Factor [dB]	Total Power [dBm]	Limit [dBm]	Worstcase Datarate
802.11a	5720 (UNII 2C Band)	144	13.18	1.027	14.20	22.77	24 Mbps
802.11n(HT20)			12.28	1.877	14.15	22.92	MCS5
802.11ac(VHT20)			11.21	1.883	13.09	22.93	MCS6
802.11a	5720 (UNII 3 Band)	144	7.33	1.027	8.36	30.00	24 Mbps
802.11n(HT20)			6.87	1.877	8.75	30.00	MCS5
802.11ac(VHT20)			5.74	1.883	7.62	30.00	MCS6

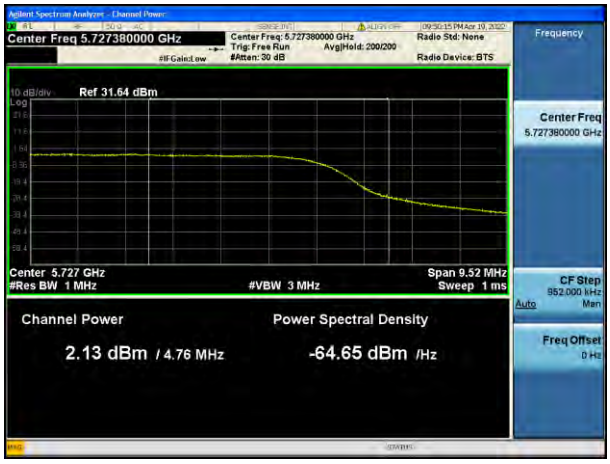
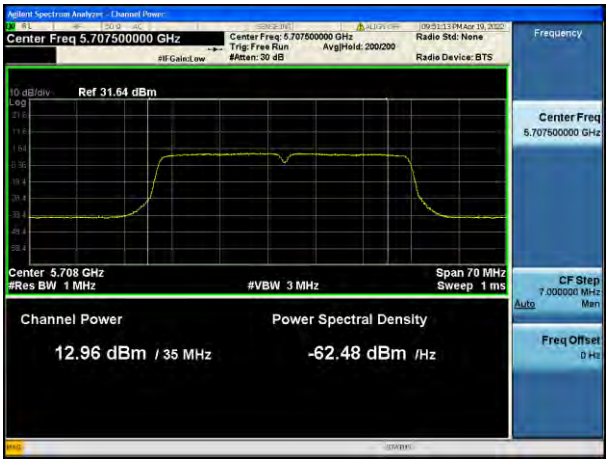
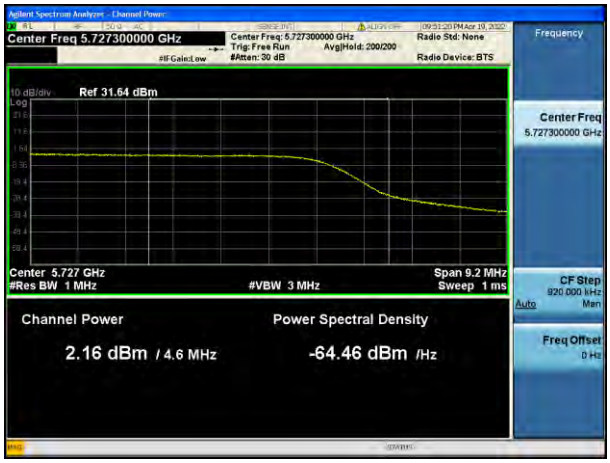
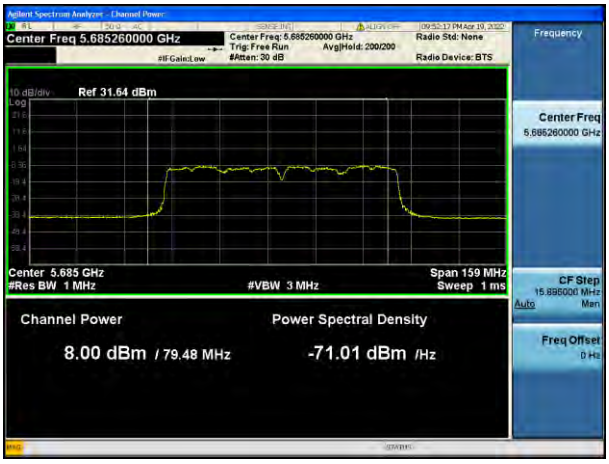
Mode	Frequency [MHz]	Channel	Measured Power [dBm]	Duty Cycle Factor [dB]	Total Power [dBm]	Limit [dBm]	Worstcase Datarate
802.11n(HT40)	5710 (UNII 2C Band)	142	11.70	1.181	12.88	23.98	MCS1
802.11ac(VHT40)			11.70	1.165	12.87	23.98	MCS1
802.11n(HT40)	5710 (UNII 3 Band)	142	0.96	1.181	2.14	30.00	MCS1
802.11ac(VHT40)			0.96	1.165	2.12	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	6.55	3.703	10.25	23.98	MCS6
	5690 (UNII 3 Band)	138	-6.06	3.703	-2.35	30.00	MCS6

[Ant.1]

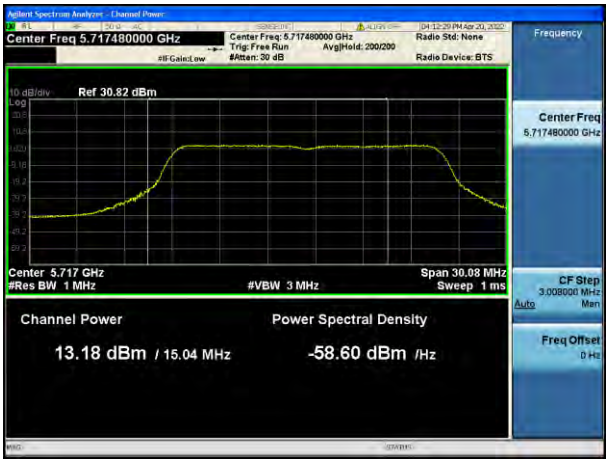
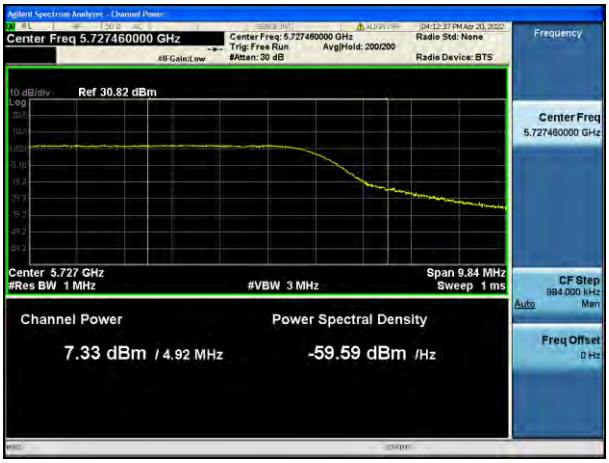
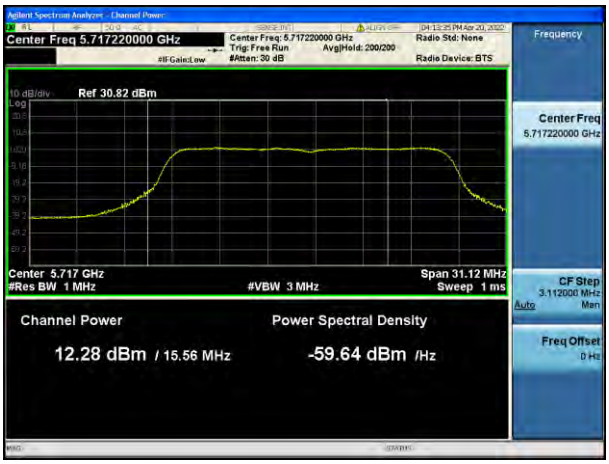
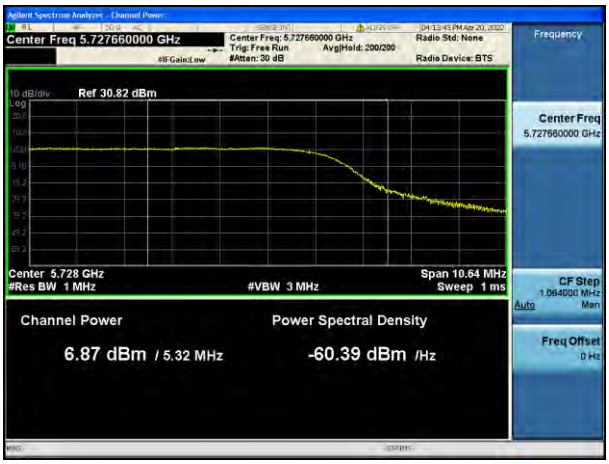
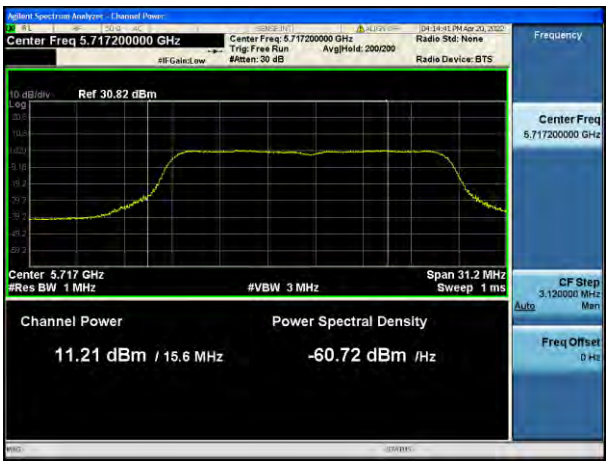
▣ Test Plots

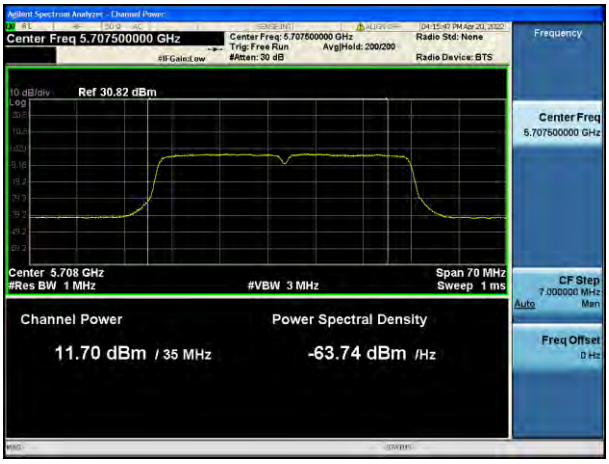
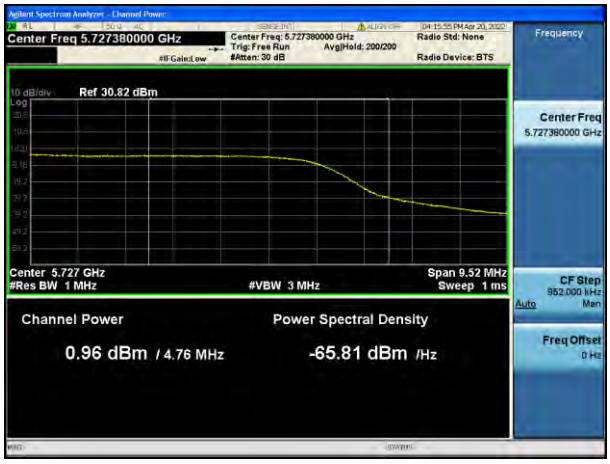
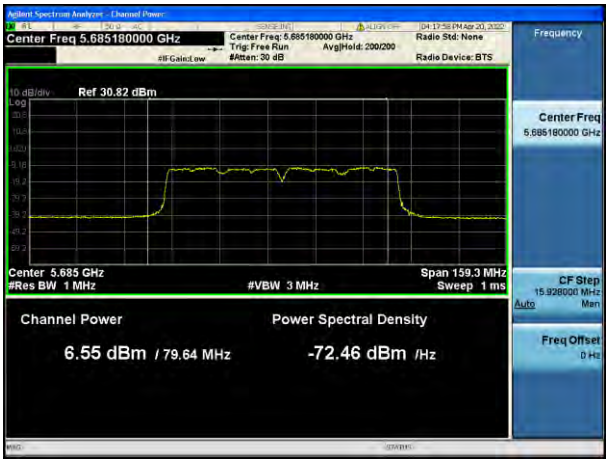
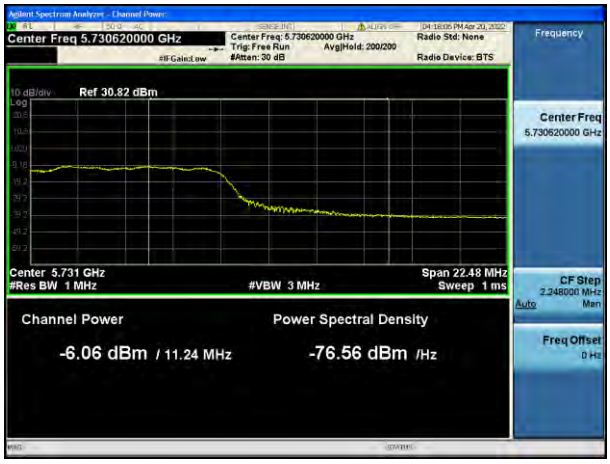
802.11a UNII 2C Band	802.11a UNII 3 Band
	
802.11n(HT20) UNII 2C Band	**802.11n(HT20) UNII 3 Band**
	
802.11ac(VHT20) UNII 2C Band	**802.11ac(VHT20) UNII 3 Band**
	

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**
	

10.7.4 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	4.209	1.027	5.236	11 dBm/ MHz	24 Mbps
802.11n(HT20)			3.190	1.877	5.067		MCS5
802.11ac(VHT20)			2.070	1.883	3.953		MCS6
802.11a	5720 (UNII 3 Band)	144	1.354	1.027	2.380	30 dB/ 500 kHz	24 Mbps
802.11n(HT20)			0.550	1.877	2.427		MCS5
802.11ac(VHT20)			-0.126	1.883	1.757		MCS6

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	-1.100	1.181	0.081	11 dBm/ MHz	MCS1
802.11ac(VHT40)			-0.987	1.165	0.178		MCS1
802.11n(HT40)	5710 (UNII 3 Band)	142	-5.073	1.181	-3.892	30 dBm/ 500 kHz	MCS1
802.11ac(VHT40)			-5.224	1.165	-4.059		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	-8.818	3.703	-5.115	11 dBm/ MHz	MCS6
	5690 (UNII 3 Band)	138	-11.462	3.703	-7.759	30 dBm/ 500 kHz	MCS6

[Ant.2]

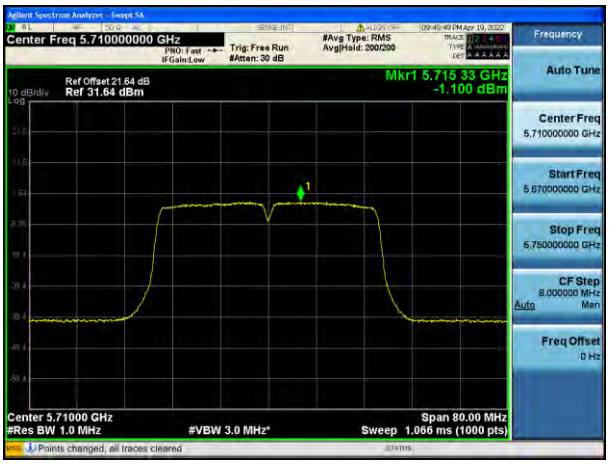
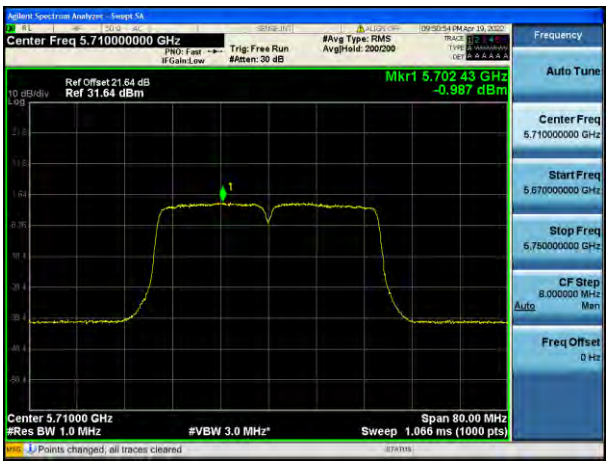
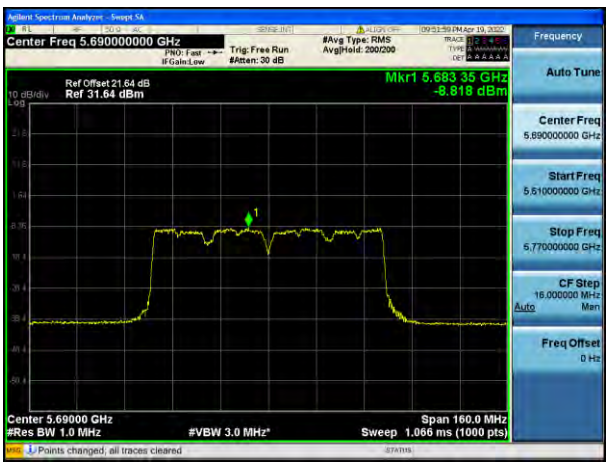
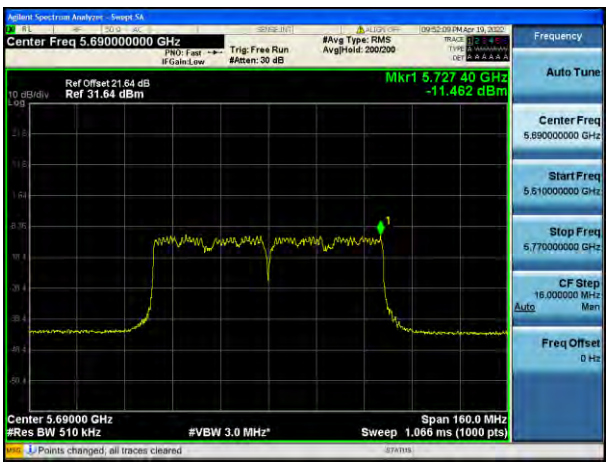
Mode	Frequency [MHz]	Channel	Measured Density [dBm]	Duty Cycle Factor [dB]	Total PSD [dBm]	Limit [dBm]	Worstcase Datarate
802.11a	5720 (UNII 2C Band)	144	3.076	1.027	4.102	11 dBm/ MHz	24 Mbps
802.11n(HT20)			1.910	1.877	3.787		MCS5
802.11ac(VHT20)			0.952	1.883	2.835		MCS6
802.11a	5720 (UNII 3 Band)	144	0.074	1.027	1.101	30 dBm/500 kHz	24 Mbps
802.11n(HT20)			-0.731	1.877	1.146		MCS5
802.11ac(VHT20)			-1.970	1.883	-0.087		MCS6

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	-2.373	1.181	-1.192	11 dBm/ MHz	MCS1
802.11ac(VHT40)			-2.404	1.165	-1.239		MCS1
802.11n(HT40)	5710 (UNII 3 Band)	142	-6.389	1.181	-5.208	30 dBm/ 500 kHz	MCS1
802.11ac(VHT40)			-6.689	1.165	-5.524		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	-10.496	3.703	-6.794	11 dBm/ MHz	MCS6
	5690 (UNII 3 Band)	138	-13.518	3.703	-9.815	30 dBm/ 500 kHz	MCS6

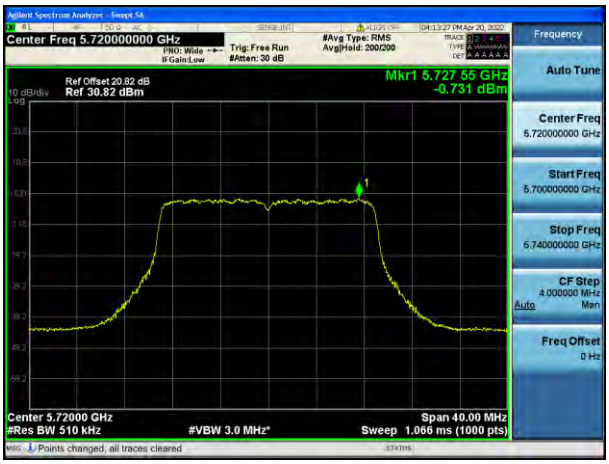
[Ant.1]
▣ Test Plots

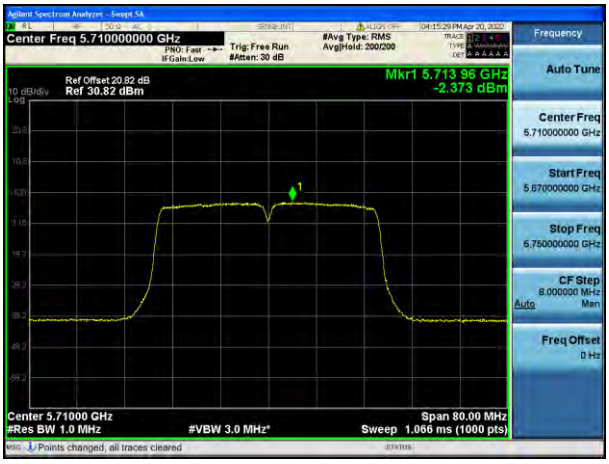
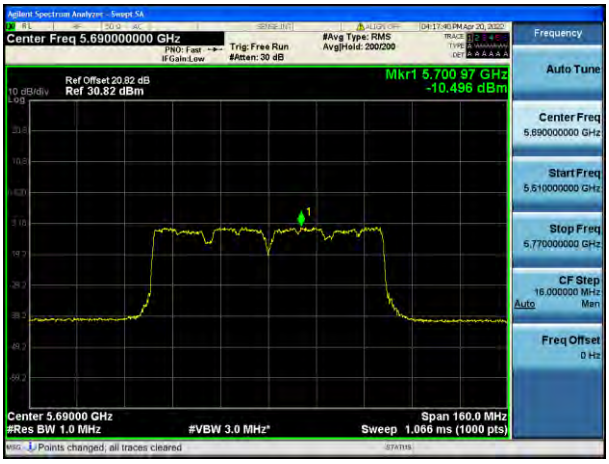
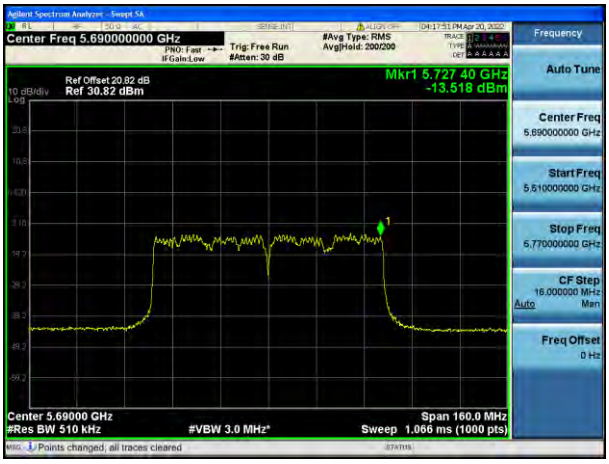
802.11a UNII 2C Band	802.11a UNII 3 Band
	
802.11n(HT20) UNII 2C Band	**802.11n(HT20) UNII 3 Band**
	
802.11ac(VHT20) UNII 2C Band	**802.11ac(VHT20) UNII 3 Band**
	

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 = 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	43.37	8.12	V	51.49	68.20	16.71	PK
15540	40.03	12.95	V	52.98	73.98	21.00	PK
15540	26.98	12.95	V	39.93	53.98	14.05	AV
10360	43.88	8.12	H	52.00	68.20	16.20	PK
15540	39.86	12.95	H	52.81	73.98	21.17	PK
15540	27.06	12.95	H	40.01	53.98	13.97	AV
7769	53.44	-0.13	H	53.31	68.20	14.89	PK
7769	53.12	-0.13	V	52.99	68.20	15.21	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	43.73	8.14	V	51.87	68.20	16.33	PK
15600	40.20	13.29	V	53.49	73.98	20.49	PK
15600	26.56	13.29	V	39.85	53.98	14.13	AV
10400	43.49	8.14	H	51.63	68.20	16.57	PK
15600	39.96	13.29	H	53.25	73.98	20.73	PK
15600	26.66	13.29	H	39.95	53.98	14.03	AV
7800	54.18	-0.10	H	54.08	68.20	14.12	PK
7800	53.98	-0.10	V	53.88	68.20	14.32	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	43.13	8.62	V	51.75	68.20	16.45	PK
15720	39.68	13.21	V	52.89	73.98	21.09	PK
15720	26.36	13.21	V	39.57	53.98	14.41	AV
10480	43.93	8.62	H	52.55	68.20	15.65	PK
15720	39.65	13.21	H	52.86	73.98	21.12	PK
15720	26.31	13.21	H	39.52	53.98	14.46	AV
7860	52.73	0.31	H	53.04	68.20	15.16	PK
7860	52.93	0.31	V	53.24	68.20	14.96	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	43.81	8.85	V	52.66	68.20	15.54	PK
15780	40.44	12.87	V	53.31	73.98	20.67	PK
15780	27.27	12.87	V	40.14	53.98	13.84	AV
10520	43.29	8.85	H	52.14	68.20	16.06	PK
15780	40.32	12.87	H	53.19	73.98	20.79	PK
15780	27.33	12.87	H	40.20	53.98	13.78	AV
7366	48.54	0.70	H	49.24	73.98	24.74	PK
7366	35.67	0.70	H	36.37	53.98	17.61	AV
7366	48.44	0.70	V	49.14	73.98	24.84	PK
7366	35.55	0.70	V	36.25	53.98	17.73	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	43.01	9.35	V	52.36	73.98	21.62	PK
10600	29.45	9.35	V	38.80	53.98	15.18	AV
15900	40.72	12.56	V	53.28	73.98	20.70	PK
15900	27.68	12.56	V	40.24	53.98	13.74	AV
10600	42.49	9.35	H	51.84	73.98	22.14	PK
10600	29.29	9.35	H	38.64	53.98	15.34	AV
15900	40.63	12.56	H	53.19	73.98	20.79	PK
15900	27.71	12.56	H	40.27	53.98	13.71	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	42.31	9.15	V	51.46	73.98	22.52	PK
10640	29.14	9.15	V	38.29	53.98	15.69	AV
15960	40.59	12.21	V	52.80	73.98	21.18	PK
15960	27.59	12.21	V	39.80	53.98	14.18	AV
10640	42.16	9.15	H	51.31	73.98	22.67	PK
10640	29.21	9.15	H	38.36	53.98	15.62	AV
15960	40.80	12.21	H	53.01	73.98	20.97	PK
15960	27.41	12.21	H	39.62	53.98	14.36	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	41.88	10.19	V	52.07	73.98	21.91	PK
11000	28.96	10.19	V	39.15	53.98	14.83	AV
16500	41.50	12.17	V	53.67	68.20	14.53	PK
11000	43.74	10.19	H	53.93	73.98	20.05	PK
11000	28.91	10.19	H	39.10	53.98	14.88	AV
16500	41.62	12.17	H	53.79	68.20	14.41	PK
6600	57.17	-0.70	H	56.47	68.20	11.73	PK
6600	56.99	-0.70	V	56.29	68.20	11.91	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	42.22	10.29	V	52.51	73.98	21.47	PK
11200	28.86	10.29	V	39.15	53.98	14.83	AV
16800	41.04	13.25	V	54.29	68.20	13.91	PK
11200	41.54	10.29	H	51.83	73.98	22.15	PK
11200	28.85	10.29	H	39.14	53.98	14.84	AV
16800	41.78	13.25	H	55.03	68.20	13.17	PK
6715	58.77	-1.50	H	57.27	68.20	10.93	PK
6715	59.01	-1.50	V	57.51	68.20	10.69	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	41.19	10.43	V	51.62	73.98	22.36	PK
11440	28.39	10.43	V	38.82	53.98	15.16	AV
17160	40.85	13.78	V	54.63	68.20	13.57	PK
11440	41.86	10.43	H	52.29	73.98	21.69	PK
11440	28.68	10.43	H	39.11	53.98	14.87	AV
17160	40.74	13.78	H	54.52	68.20	13.68	PK
6863	54.44	-0.70	H	53.74	68.20	14.46	PK
6863	54.01	-0.70	V	53.31	68.20	14.89	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	41.65	10.81	V	52.46	73.98	21.52	PK
11490	28.76	10.81	V	39.57	53.98	14.41	AV
17235	40.69	14.28	V	54.97	68.20	13.23	PK
11490	41.77	10.81	H	52.58	73.98	21.40	PK
11490	29.06	10.81	H	39.87	53.98	14.11	AV
17235	41.14	14.28	H	55.42	68.20	12.78	PK
6893	56.33	-0.61	H	55.72	68.20	12.48	PK
6893	55.98	-0.61	V	55.37	68.20	12.83	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	41.96	10.13	V	52.09	73.98	21.89	PK
11570	28.81	10.13	V	38.94	53.98	15.04	AV
17355	40.69	15.62	V	56.31	68.20	11.89	PK
11570	42.50	10.13	H	52.63	73.98	21.35	PK
11570	29.11	10.13	H	39.24	53.98	14.74	AV
17355	40.28	15.62	H	55.90	68.20	12.30	PK
6942	54.62	-0.41	H	54.21	68.20	13.99	PK
6942	54.55	-0.41	V	54.14	68.20	14.06	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	42.67	9.58	V	52.25	73.98	21.73	PK
11650	28.89	9.58	V	38.47	53.98	15.51	AV
17475	40.03	17.18	V	57.21	68.20	10.99	PK
11650	43.03	9.58	H	52.61	73.98	21.37	PK
11650	28.99	9.58	H	38.57	53.98	15.41	AV
17475	40.10	17.18	H	57.28	68.20	10.92	PK
6989	51.63	-0.34	H	51.29	68.20	16.91	PK
6989	51.42	-0.34	V	51.08	68.20	17.12	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	44.10	8.12	V	52.22	68.20	15.98	PK
15540	40.28	12.95	V	53.23	73.98	20.75	PK
15540	27.01	12.95	V	39.96	53.98	14.02	AV
10360	43.40	8.12	H	51.52	68.20	16.68	PK
15540	40.23	12.95	H	53.18	73.98	20.80	PK
15540	26.83	12.95	H	39.78	53.98	14.20	AV
7769	53.53	-0.13	H	53.40	68.20	14.80	PK
7769	53.33	-0.13	V	53.20	68.20	15.00	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	43.92	8.14	V	52.06	68.20	16.14	PK
15600	39.78	13.29	V	53.07	73.98	20.91	PK
15600	26.68	13.29	V	39.97	53.98	14.01	AV
10400	43.34	8.14	H	51.48	68.20	16.72	PK
15600	39.56	13.29	H	52.85	73.98	21.13	PK
15600	26.48	13.29	H	39.77	53.98	14.21	AV
7800	53.57	-0.10	H	53.47	68.20	14.73	PK
7800	53.32	-0.10	V	53.22	68.20	14.98	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	43.14	8.62	V	51.76	68.20	16.44	PK
15720	39.68	13.21	V	52.89	73.98	21.09	PK
15720	26.23	13.21	V	39.44	53.98	14.54	AV
10480	43.92	8.62	H	52.54	68.20	15.66	PK
15720	39.11	13.21	H	52.32	73.98	21.66	PK
15720	26.33	13.21	H	39.54	53.98	14.44	AV
7860	52.76	0.31	H	53.07	68.20	15.13	PK
7860	52.51	0.31	V	52.82	68.20	15.38	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	43.68	8.11	V	51.79	68.20	16.41	PK
15570	39.87	12.96	V	52.83	73.98	21.15	PK
15570	27.85	12.96	V	40.81	53.98	13.17	AV
10380	43.54	8.11	H	51.65	68.20	16.55	PK
15570	39.84	12.96	H	52.80	73.98	21.18	PK
15570	27.63	12.96	H	40.59	53.98	13.39	AV
7785	54.52	-0.07	H	54.45	68.20	13.75	PK
7785	54.22	-0.07	V	54.15	68.20	14.05	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	43.67	8.45	V	52.12	68.20	16.08	PK
15690	39.49	13.07	V	52.56	73.98	21.42	PK
15690	27.43	13.07	V	40.50	53.98	13.48	AV
10460	43.25	8.45	H	51.70	68.20	16.50	PK
15690	39.44	13.07	H	52.51	73.98	21.47	PK
15690	27.22	13.07	H	40.29	53.98	13.69	AV
7845	53.02	0.02	H	53.04	68.20	15.16	PK
7845	52.81	0.02	V	52.83	68.20	15.37	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	43.88	8.12	V	52.00	68.20	16.20	PK
15540	40.13	12.95	V	53.08	73.98	20.90	PK
15540	26.99	12.95	V	39.94	53.98	14.04	AV
10360	43.70	8.12	H	51.82	68.20	16.38	PK
15540	40.32	12.95	H	53.27	73.98	20.71	PK
15540	26.81	12.95	H	39.76	53.98	14.22	AV
7769	53.71	-0.13	H	53.58	68.20	14.62	PK
7769	53.51	-0.13	V	53.38	68.20	14.82	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	43.82	8.14	V	51.96	68.20	16.24	PK
15600	39.88	13.29	V	53.17	73.98	20.81	PK
15600	26.74	13.29	V	40.03	53.98	13.95	AV
10400	44.40	8.14	H	52.54	68.20	15.66	PK
15600	39.73	13.29	H	53.02	73.98	20.96	PK
15600	26.61	13.29	H	39.90	53.98	14.08	AV
7800	53.68	-0.10	H	53.58	68.20	14.62	PK
7800	53.48	-0.10	V	53.38	68.20	14.82	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	43.13	8.62	V	51.75	68.20	16.45	PK
15720	40.15	13.21	V	53.36	73.98	20.62	PK
15720	26.21	13.21	V	39.42	53.98	14.56	AV
10480	43.24	8.62	H	51.86	68.20	16.34	PK
15720	39.60	13.21	H	52.81	73.98	21.17	PK
15720	26.20	13.21	H	39.41	53.98	14.57	AV
7860	52.74	0.31	H	53.05	68.20	15.15	PK
7860	52.51	0.31	V	52.82	68.20	15.38	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	43.82	8.11	V	51.93	68.20	16.27	PK
15570	39.81	12.96	V	52.77	73.98	21.21	PK
15570	27.50	12.96	V	40.46	53.98	13.52	AV
10380	44.55	8.11	H	52.66	68.20	15.54	PK
15570	40.49	12.96	H	53.45	73.98	20.53	PK
15570	27.75	12.96	H	40.71	53.98	13.27	AV
7785	54.29	-0.07	H	54.22	68.20	13.98	PK
7785	54.02	-0.07	V	53.95	68.20	14.25	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	43.18	8.45	V	51.63	68.20	16.57	PK
15690	39.73	13.07	V	52.80	73.98	21.18	PK
15690	27.33	13.07	V	40.40	53.98	13.58	AV
10460	43.52	8.45	H	51.97	68.20	16.23	PK
15690	39.74	13.07	H	52.81	73.98	21.17	PK
15690	27.35	13.07	H	40.42	53.98	13.56	AV
7845	53.22	0.02	H	53.24	68.20	14.96	PK
7845	52.94	0.02	V	52.96	68.20	15.24	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	43.30	8.10	V	51.40	68.20	16.80	PK
15630	39.62	13.16	V	52.78	73.98	21.20	PK
15630	27.79	13.16	V	40.95	53.98	13.03	AV
10420	43.39	8.10	H	51.49	68.20	16.71	PK
15630	39.54	13.16	H	52.70	73.98	21.28	PK
15630	27.83	13.16	H	40.99	53.98	12.99	AV
7815	54.12	0.01	H	54.13	68.20	14.07	PK
7815	53.29	0.01	V	53.30	68.20	14.90	PK

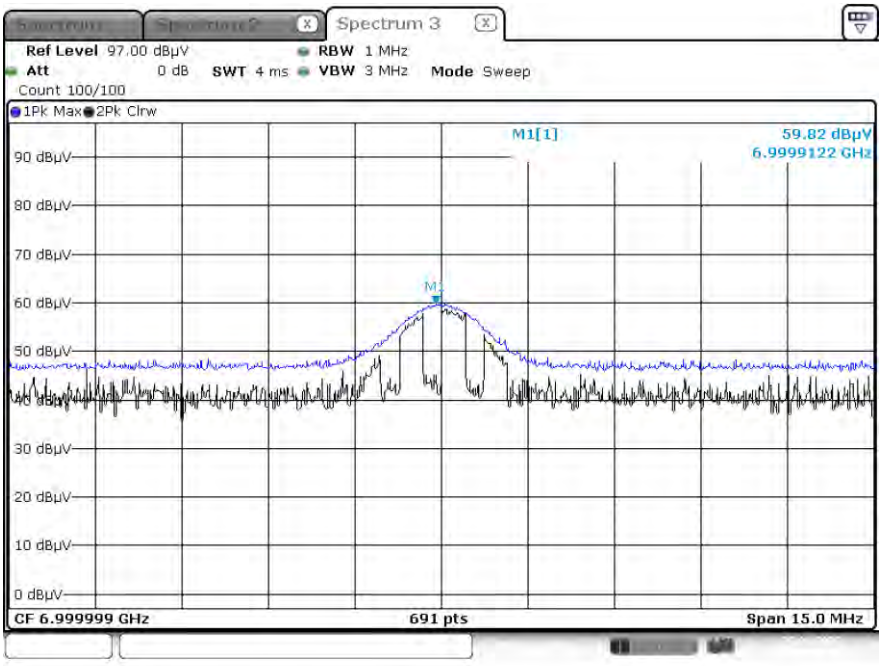
Band :	UNII 1&2A
Operation Mode:	802.11ac(VHT160)
MCS Index:	0
Operating Frequency	5250 MHz
Channel No.	50 Ch

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	43.47	8.50	V	51.97	68.20	16.23	PK
15750	39.83	12.83	V	52.66	73.98	21.32	PK
15750	28.75	12.83	V	41.58	53.98	12.40	AV
10500	43.33	8.50	H	51.83	68.20	16.37	PK
15750	39.78	12.83	H	52.61	73.98	21.37	PK
15750	28.32	12.83	H	41.15	53.98	12.83	AV
6999	59.82	-0.44	H	59.38	68.20	8.82	PK
6999	59.66	-0.44	V	59.22	68.20	8.98	AV

▣ Test Plots

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

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



Note:

Only the worst case plots for Radiated Spurious Emissions.

10.9 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	44.80	8.43	H	53.23	73.98	20.75	PK
5150	31.79	8.43	H	40.22	53.98	13.76	AV
5150	44.62	8.43	V	53.05	73.98	20.93	PK
5150	31.51	8.43	V	39.94	53.98	14.04	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	45.02	8.23	H	53.25	73.98	20.73	PK
5350	31.48	8.23	H	39.71	53.98	14.27	AV
5350	45.28	8.23	V	53.51	73.98	20.47	PK
5350	31.64	8.23	V	39.87	53.98	14.11	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	45.89	8.98	H	54.87	73.98	19.11	PK
5460	30.48	8.98	H	39.46	53.98	14.52	AV
5470	45.78	8.75	H	54.53	68.20	13.67	PK
5460	46.08	8.98	V	55.06	73.98	18.92	PK
5460	30.76	8.98	V	39.74	53.98	14.24	AV
5470	45.90	8.75	V	54.65	68.20	13.55	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	44.71	8.43	H	53.14	73.98	20.84	PK
5150	31.87	8.43	H	40.30	53.98	13.68	AV
5150	44.41	8.43	V	52.84	73.98	21.14	PK
5150	31.51	8.43	V	39.94	53.98	14.04	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	45.02	8.23	H	53.25	73.98	20.73	PK
5350	31.48	8.23	H	39.71	53.98	14.27	AV
5350	45.29	8.23	V	53.52	73.98	20.46	PK
5350	31.67	8.23	V	39.90	53.98	14.08	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	45.02	8.98	H	54.00	73.98	19.98	PK
5460	30.68	8.98	H	39.66	53.98	14.32	AV
5470	45.48	8.75	H	54.23	68.20	13.97	PK
5460	45.20	8.98	V	54.18	73.98	19.80	PK
5460	30.82	8.98	V	39.80	53.98	14.18	AV
5470	45.65	8.75	V	54.40	68.20	13.80	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	44.45	8.43	H	52.88	73.98	21.10	PK
5150	31.76	8.43	H	40.19	53.98	13.79	AV
5150	44.22	8.43	V	52.65	73.98	21.33	PK
5150	31.62	8.43	V	40.05	53.98	13.93	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	45.28	8.23	H	53.51	73.98	20.47	PK
5350	31.32	8.23	H	39.55	53.98	14.43	AV
5350	45.54	8.23	V	53.77	73.98	20.21	PK
5350	31.50	8.23	V	39.73	53.98	14.25	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	44.89	8.98	H	53.87	73.98	20.11	PK
5460	30.42	8.98	H	39.40	53.98	14.58	AV
5470	45.32	8.75	H	54.07	68.20	14.13	PK
5460	45.01	8.98	V	53.99	73.98	19.99	PK
5460	30.62	8.98	V	39.60	53.98	14.38	AV
5470	45.73	8.75	V	54.48	68.20	13.72	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	44.42	8.43	H	52.85	73.98	21.13	PK
5150	32.70	8.43	H	41.13	53.98	12.85	AV
5150	44.22	8.43	V	52.65	73.98	21.33	PK
5150	32.39	8.43	V	40.82	53.98	13.16	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	45.41	8.23	H	53.64	73.98	20.34	PK
5350	32.55	8.23	H	40.78	53.98	13.20	AV
5350	45.54	8.23	V	53.77	73.98	20.21	PK
5350	32.83	8.23	V	41.06	53.98	12.92	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	45.85	8.98	H	54.83	73.98	19.15	PK
5460	32.48	8.98	H	41.46	53.98	12.52	AV
5470	53.32	8.75	H	62.07	68.20	6.13	PK
5460	46.03	8.98	V	55.01	73.98	18.97	PK
5460	32.53	8.98	V	41.51	53.98	12.47	AV
5470	53.58	8.75	V	62.33	68.20	5.87	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	44.79	8.43	H	53.22	73.98	20.76	PK
5150	32.60	8.43	H	41.03	53.98	12.95	AV
5150	44.55	8.43	V	52.98	73.98	21.00	PK
5150	32.12	8.43	V	40.55	53.98	13.43	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	44.91	8.23	H	53.14	73.98	20.84	PK
5350	32.89	8.23	H	41.12	53.98	12.86	AV
5350	45.17	8.23	V	53.40	73.98	20.58	PK
5350	33.03	8.23	V	41.26	53.98	12.72	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	45.68	8.98	H	54.66	73.98	19.32	PK
5460	31.89	8.98	H	40.87	53.98	13.11	AV
5470	50.69	8.75	H	59.44	68.20	8.76	PK
5460	45.88	8.98	V	54.86	73.98	19.12	PK
5460	32.20	8.98	V	41.18	53.98	12.80	AV
5470	50.90	8.75	V	59.65	68.20	8.55	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	44.77	8.43	H	53.20	73.98	20.78	PK
5150	33.21	8.43	H	41.64	53.98	12.34	AV
5150	44.55	8.43	V	52.98	73.98	21.00	PK
5150	33.02	8.43	V	41.45	53.98	12.53	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	45.78	8.23	H	54.01	73.98	19.97	PK
5350	33.62	8.23	H	41.85	53.98	12.13	AV
5350	45.93	8.23	V	54.16	73.98	19.82	PK
5350	33.76	8.23	V	41.99	53.98	11.99	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	44.89	8.98	H	53.87	73.98	20.11	PK
5460	32.49	8.98	H	41.47	53.98	12.51	AV
5470	46.55	8.75	H	55.30	68.20	12.90	PK
5460	45.16	8.98	V	54.14	73.98	19.84	PK
5460	32.77	8.98	V	41.75	53.98	12.23	AV
5470	46.75	8.75	V	55.50	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	40.77	8.43	H	49.20	73.98	24.78	PK
5150	30.68	8.43	H	39.11	53.98	14.87	AV
5150	40.51	8.43	V	48.94	73.98	25.04	PK
5150	30.48	8.43	V	38.91	53.98	15.07	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	40.51	8.23	H	48.74	73.98	25.24	PK
5350	29.77	8.23	H	38.00	53.98	15.98	AV
5350	40.73	8.23	V	48.96	73.98	25.02	PK
5350	29.85	8.23	V	38.08	53.98	15.90	AV

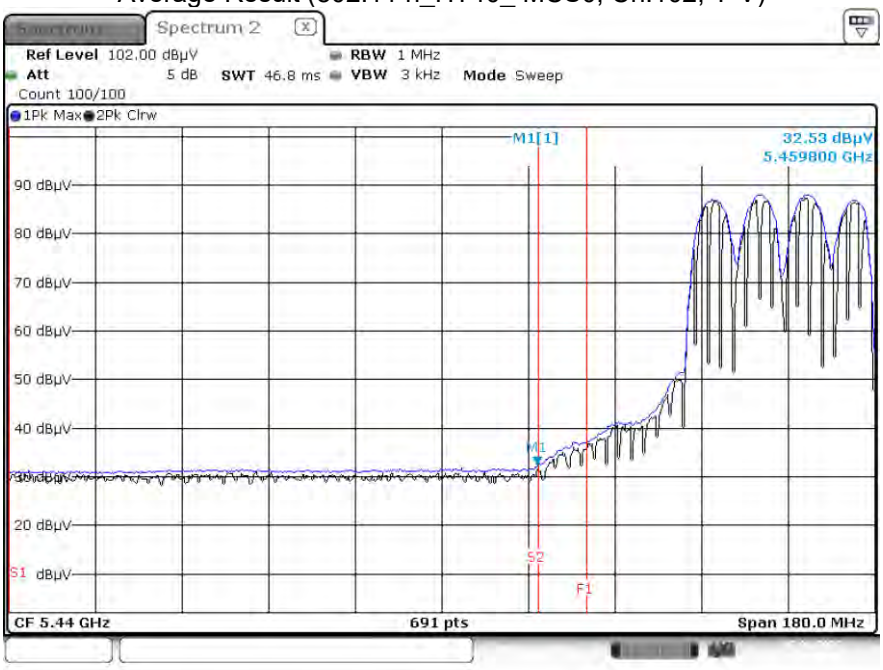
Band :	UNII 2C
Operation Mode:	802.11 ac_VHT160
Transfer MCS Index:	0
Operating Frequency	5570 MHz
Channel No.	114 Ch

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	48.95	8.98	H	57.93	73.98	16.05	PK
5460	38.69	8.98	H	47.67	53.98	6.31	AV
5470	47.89	8.75	H	56.64	68.20	11.56	PK
5460	49.20	8.98	V	58.18	73.98	15.80	PK
5460	38.94	8.98	V	47.92	53.98	6.06	AV
5470	48.15	8.75	V	56.90	68.20	11.30	PK

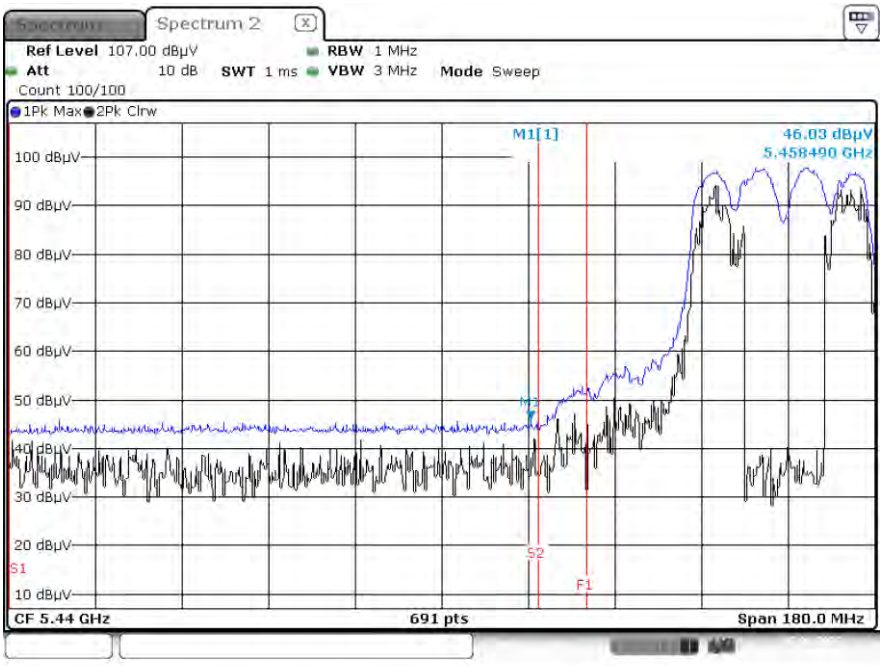
[Ant.1&Ant.2_MIMO(CDD)]

▣ Test Plots(UNII 1, 2A, 2C)

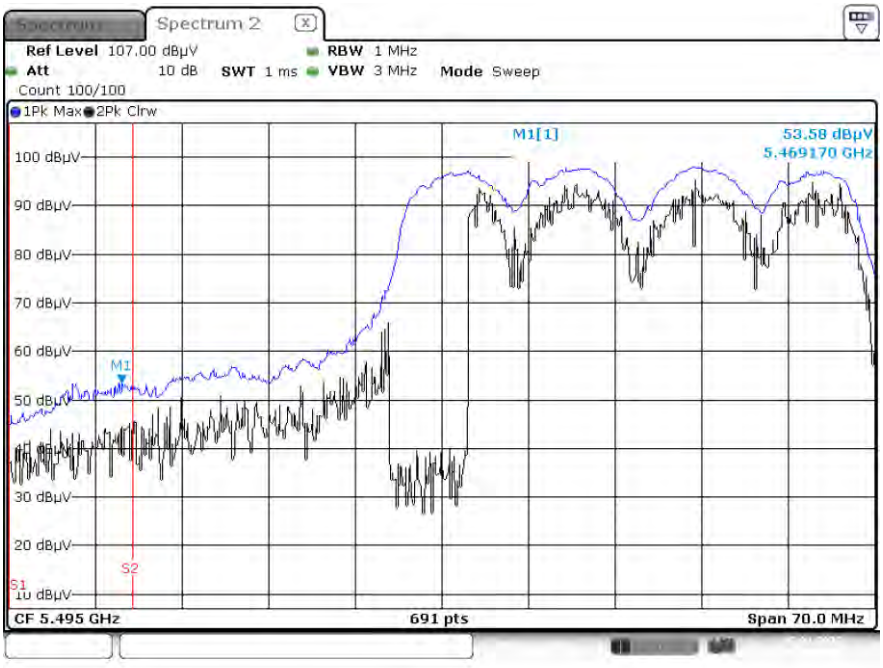
Average Result (802.11 n_HT40_ MCS0, Ch.102, Y-V)



Peak Result (802.11 n_HT40_ MCS0, Ch.102, Y-V)



Peak Result (802.11 n_HT40_ MCS0, Ch.102, Y-V)

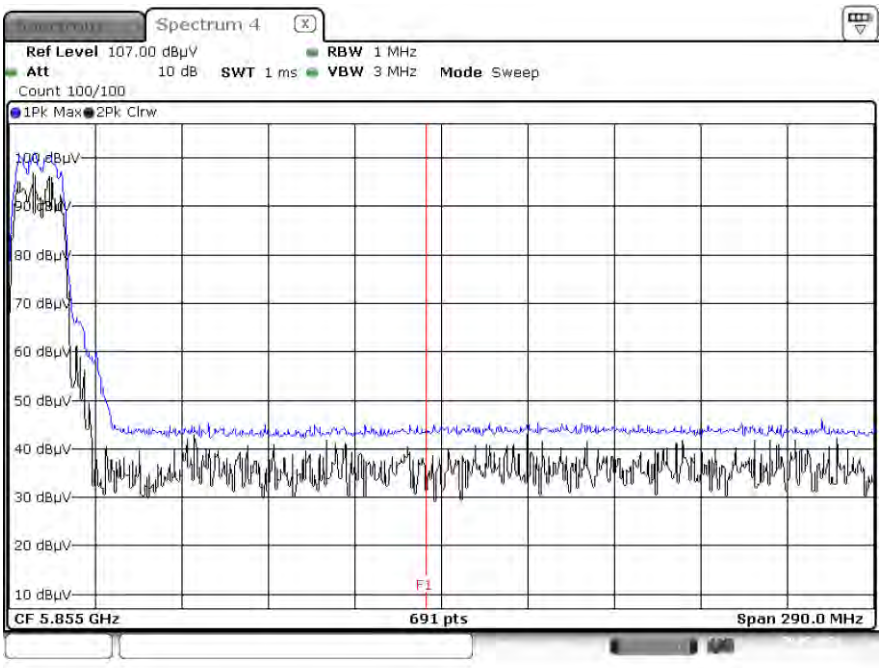


Note:

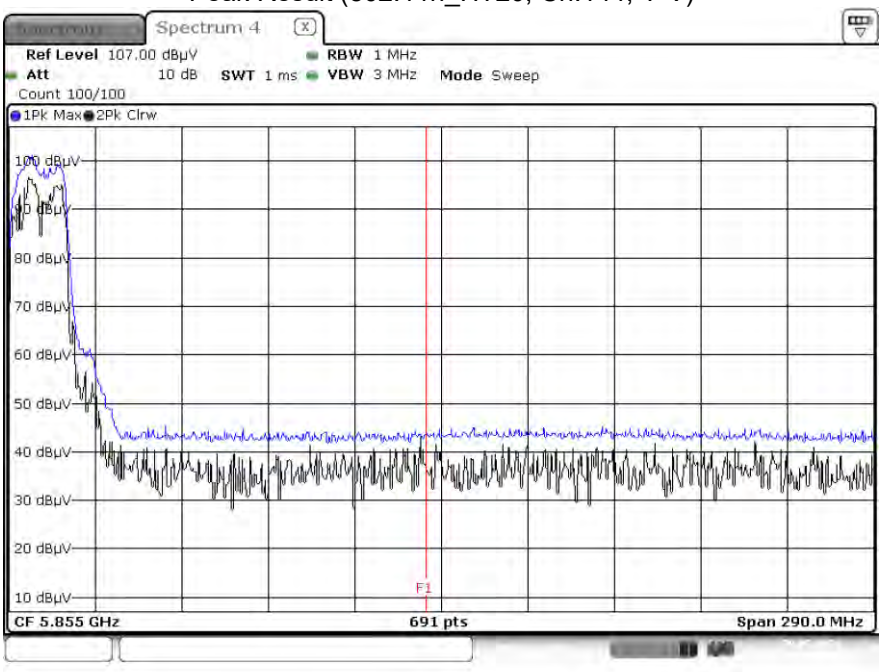
Only the worst case plots for Radiated Restricted Band Edge.

▣ Test Plots(Straddle Channel)

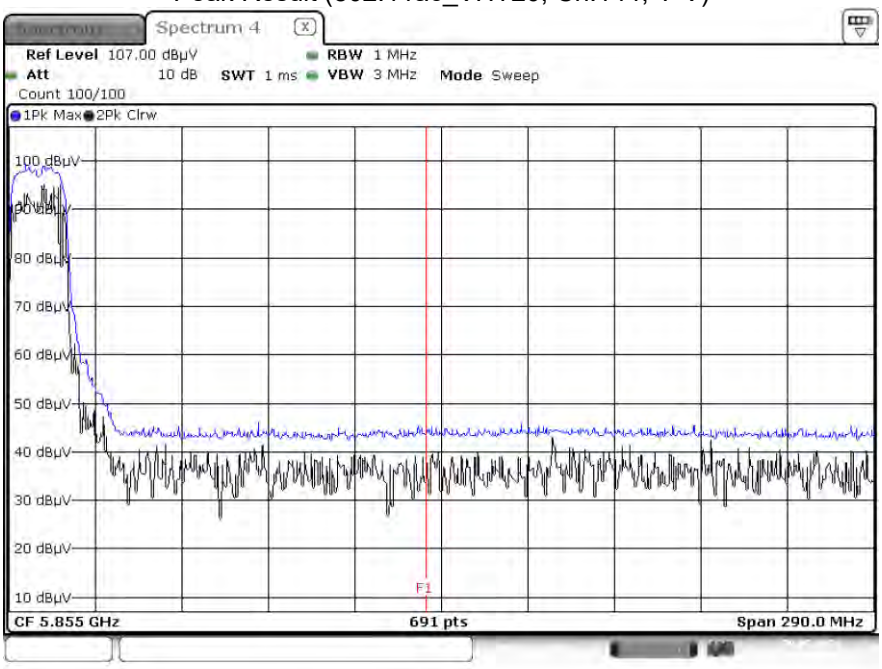
Peak Result (802.11a, Ch.144, Y-V)



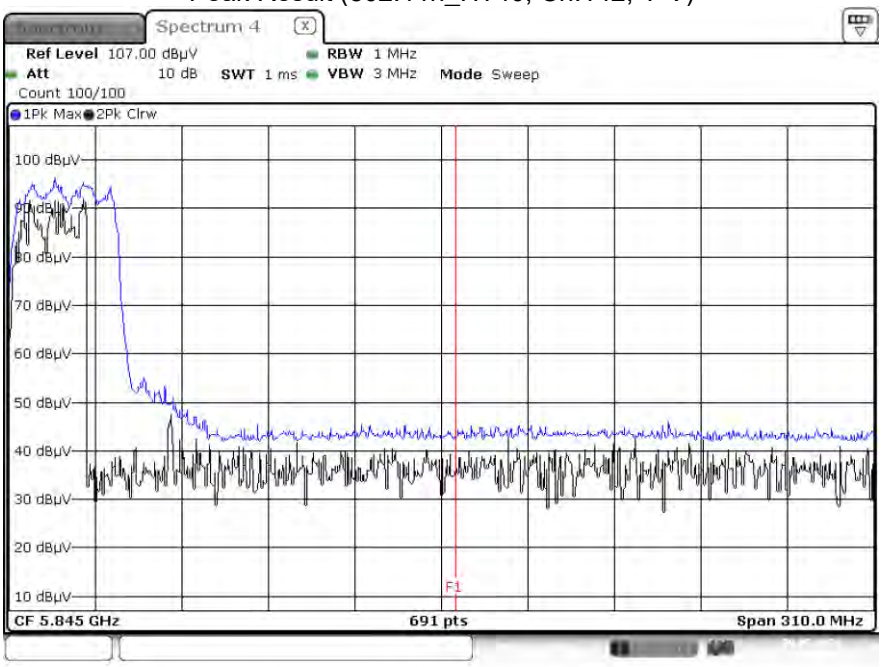
Peak Result (802.11n_HT20, Ch.144, Y-V)



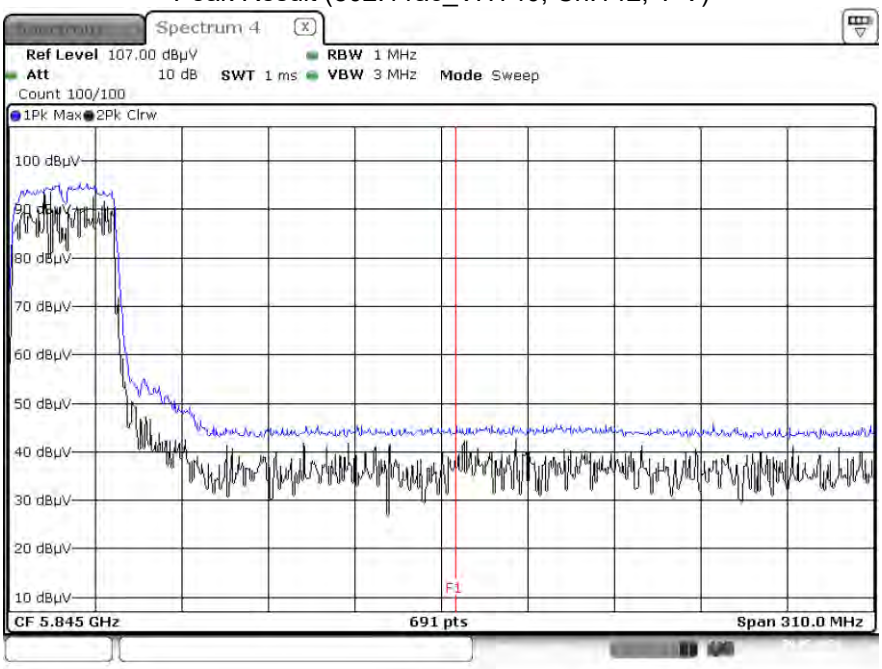
Peak Result (802.11ac_VHT20, Ch.144, Y-V)



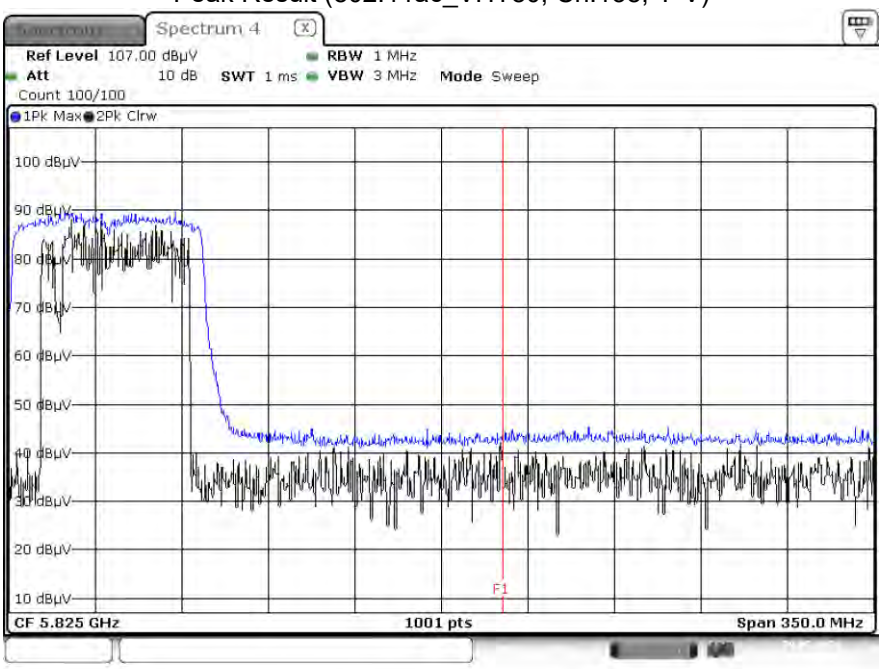
Peak Result (802.11n_HT40, Ch.142, Y-V)



Peak Result (802.11ac_VHT40, Ch.142, Y-V)



Peak Result (802.11ac_VHT80, Ch.138, Y-V)

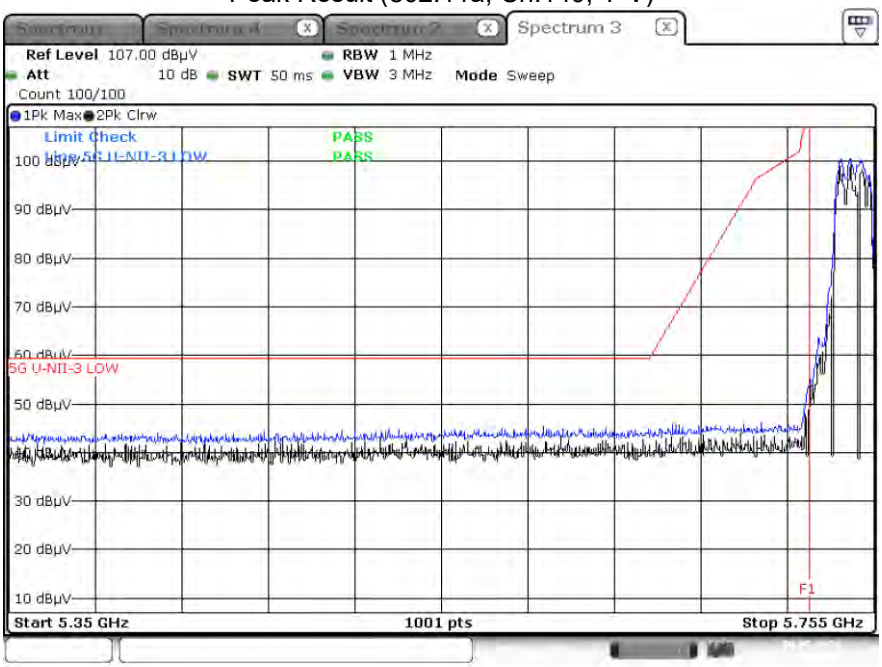


Note :

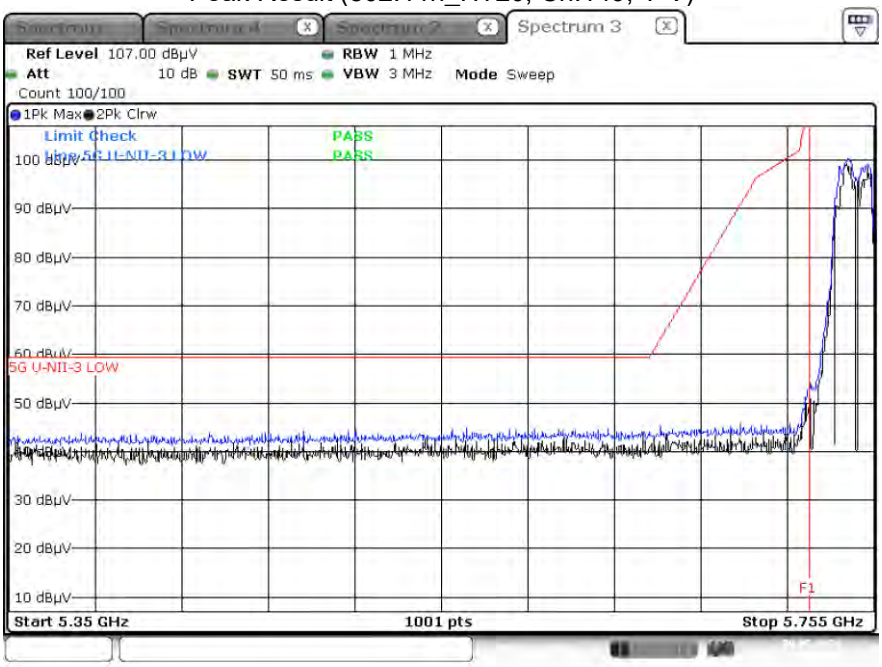
1. Only the worst case plots for Radiated Restricted Band Edge.
2. Red line : 5 850 MHz
3. Ambient Noise (Because of ambient noise, We attached only the worst plot without a data table)

▣ Test Plots(UNII 3)

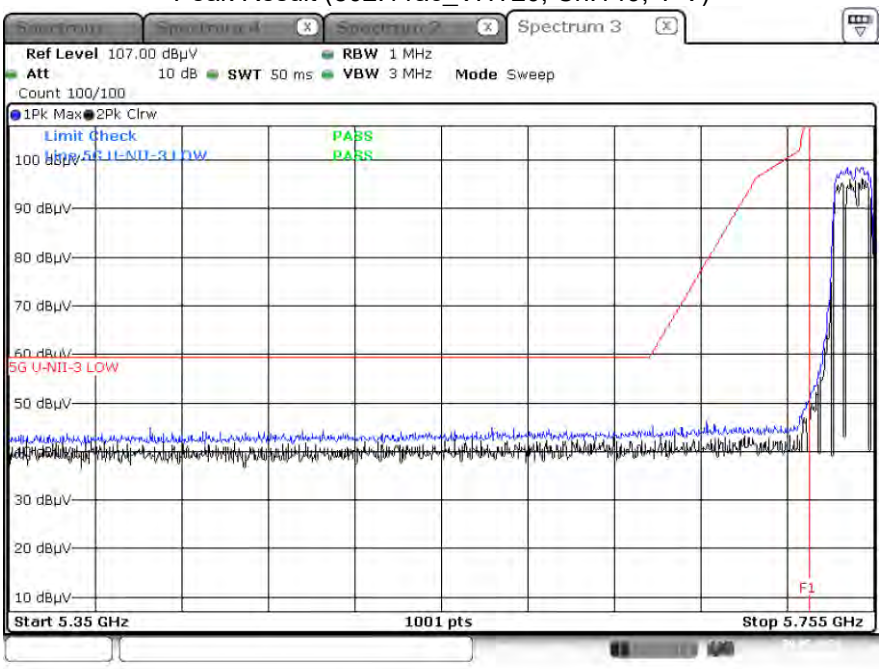
Peak Result (802.11a, Ch.149, Y-V)



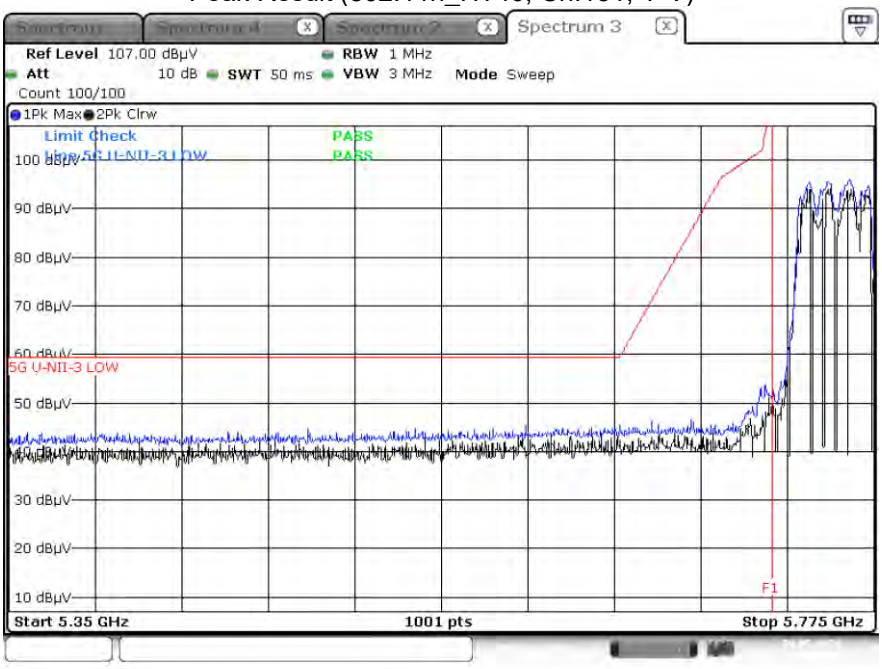
Peak Result (802.11n_HT20, Ch.149, Y-V)



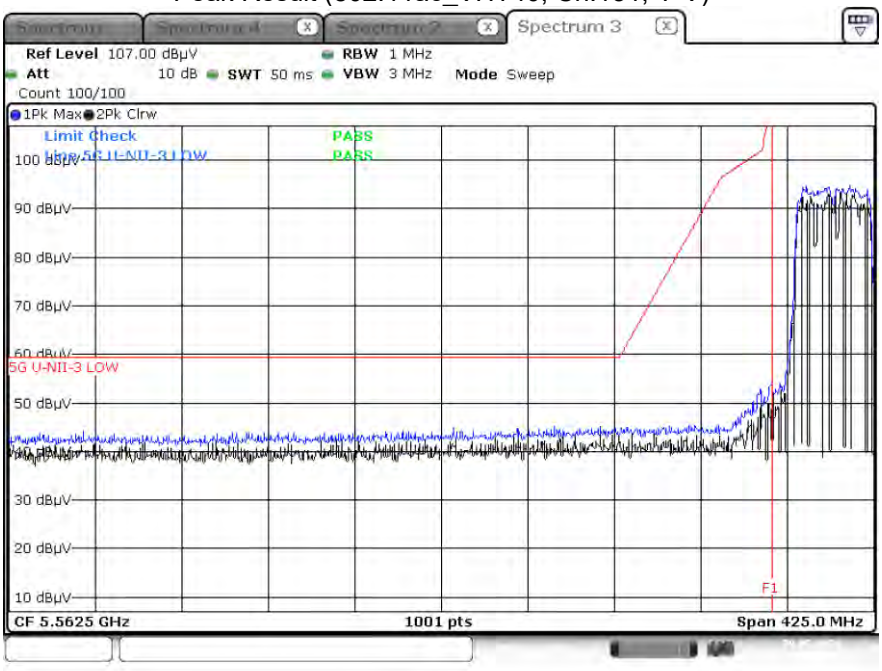
Peak Result (802.11ac_VHT20, Ch.149, Y-V)



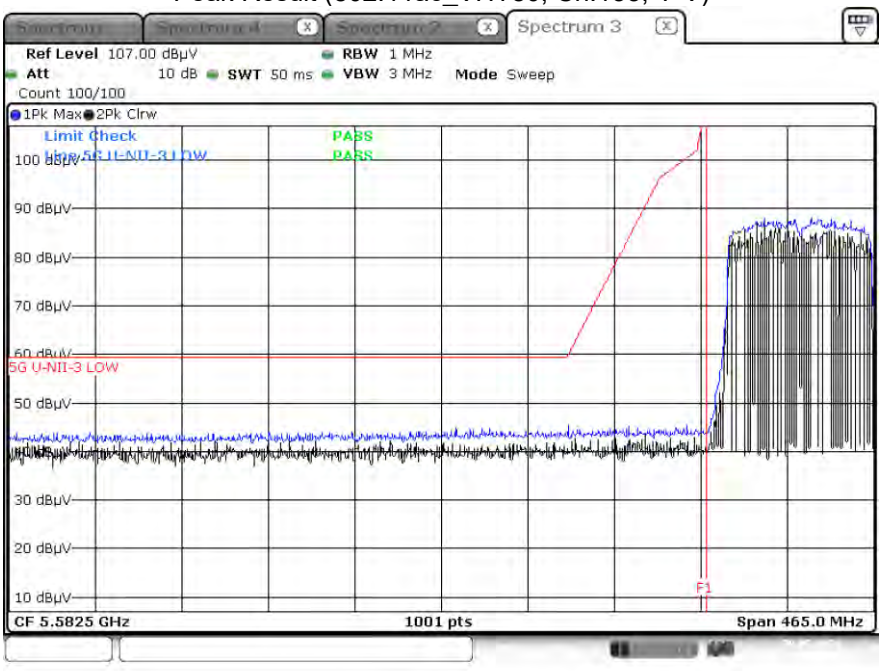
Peak Result (802.11n_HT40, Ch.151, Y-V)



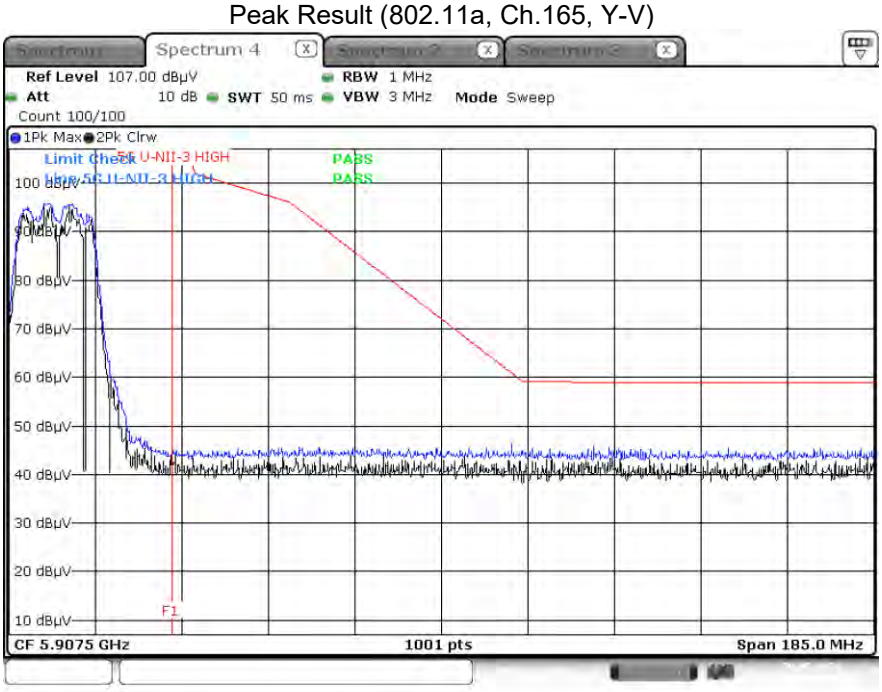
Peak Result (802.11ac_VHT40, Ch.151, Y-V)



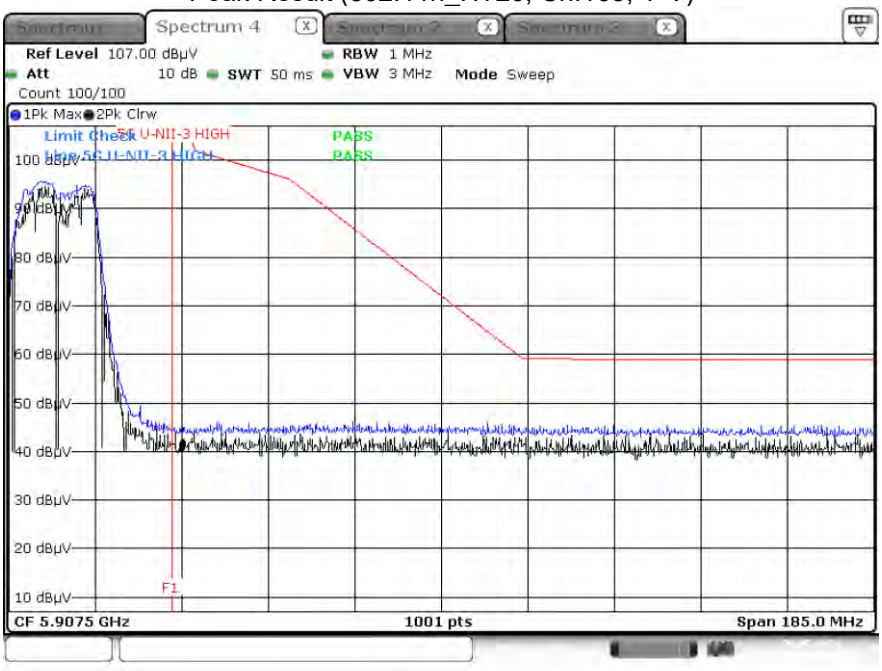
Peak Result (802.11ac_VHT80, Ch.155, Y-V)



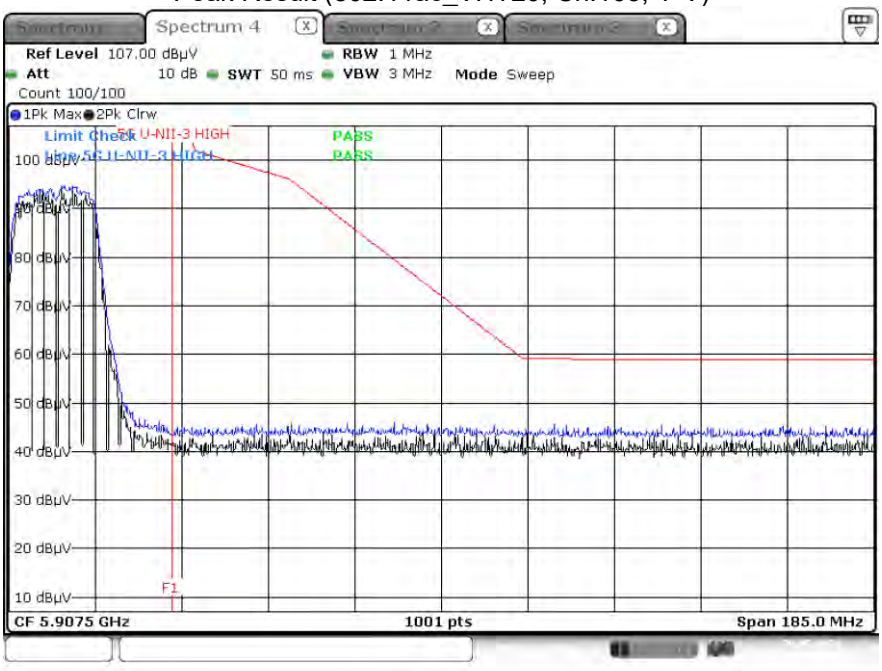
Peak Result (802.11a, Ch.165, Y-V)



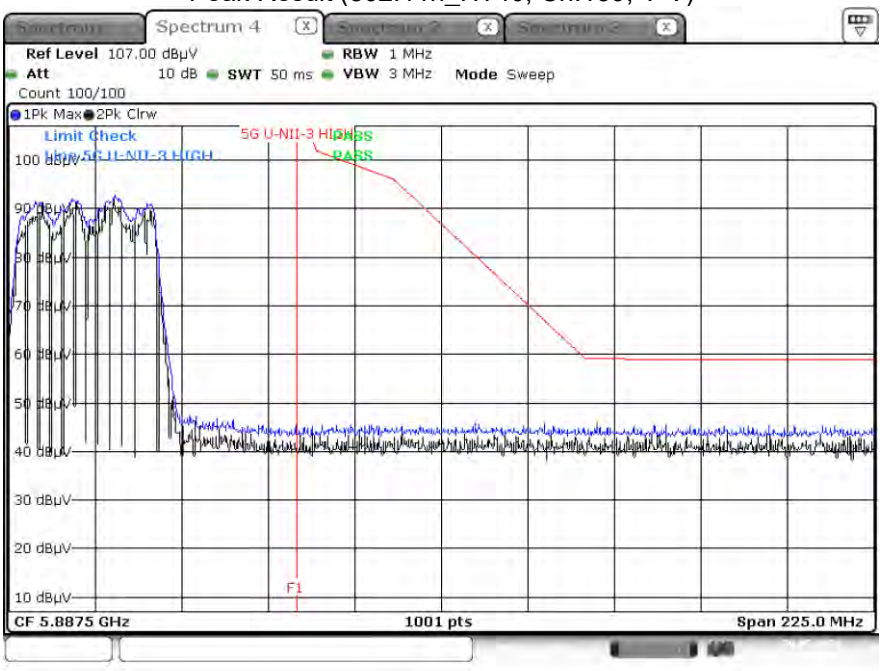
Peak Result (802.11n_HT20, Ch.165, Y-V)



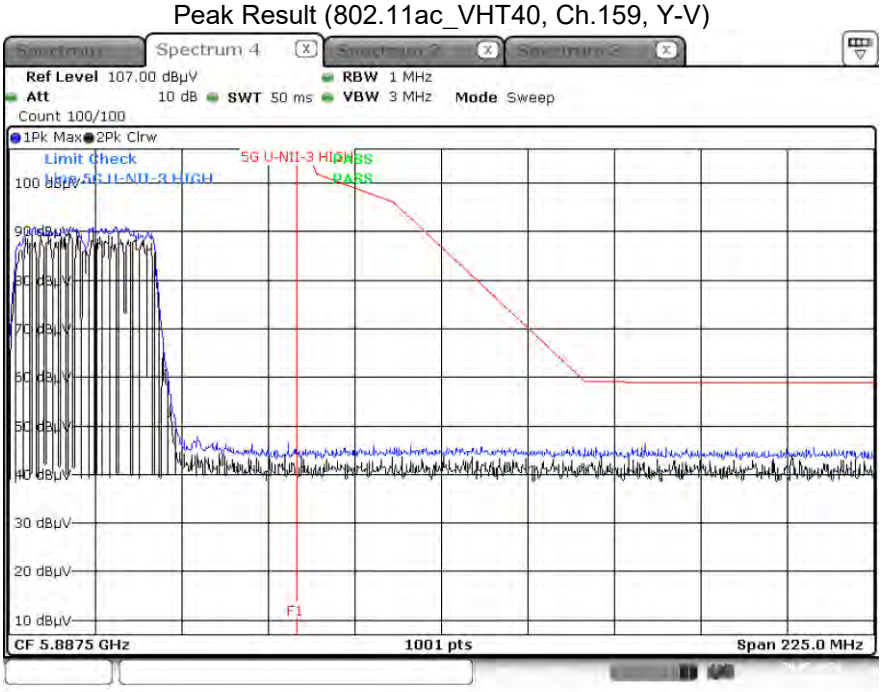
Peak Result (802.11ac_VHT20, Ch.165, Y-V)



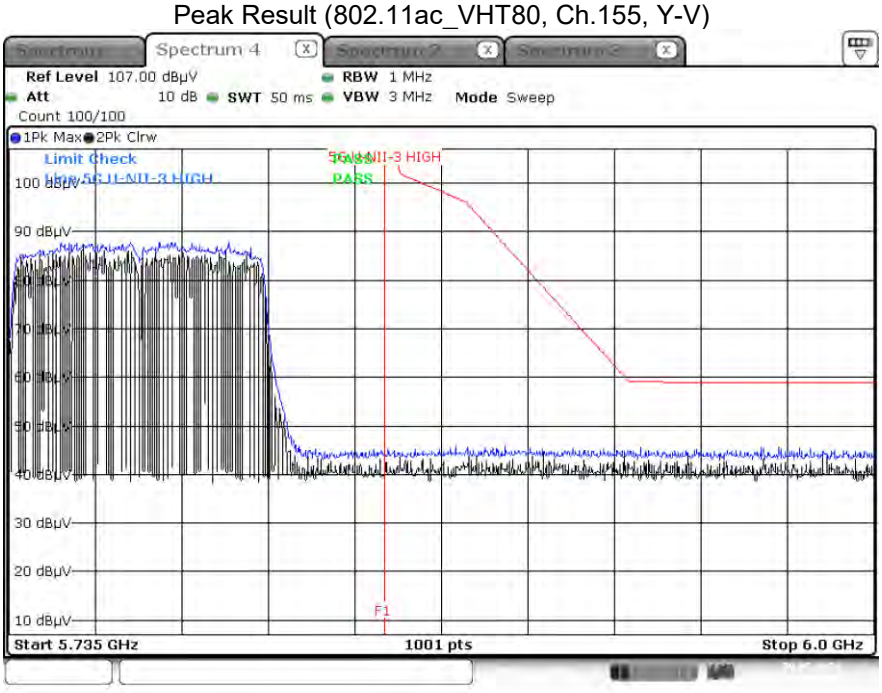
Peak Result (802.11n_HT40, Ch.159, Y-V)



Peak Result (802.11ac_VHT40, Ch.159, Y-V)



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



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.

10.10 POWERLINE CONDUCTED EMISSIONS

Conducted Emissions (Line 1)

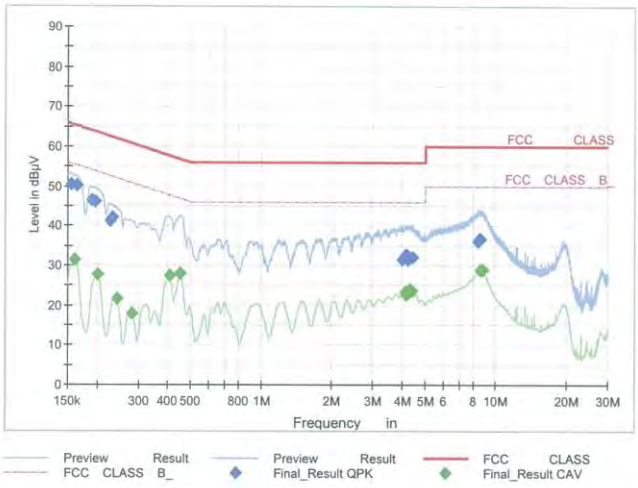
WLAN 5G_L1 1 / 2

Test Report

Common Information

EUT :	SM-G736U
Manufacturer :	SAMSUNG
Test Site:	SHIELD ROOM
Operating Conditions :	WLAN 5 GHz_L1

Full Spectrum



Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.1545	50.59	65.75	15.16	9.000	L1	OFF	9.6
0.1635	50.26	65.28	15.03	9.000	L1	OFF	9.6
0.1905	46.42	64.02	17.59	9.000	L1	OFF	9.6
0.1973	46.23	63.73	17.49	9.000	L1	OFF	9.6
0.2265	41.25	62.58	21.33	9.000	L1	OFF	9.6
0.2333	42.08	62.33	20.25	9.000	L1	OFF	9.6
4.0010	31.40	56.00	24.60	9.000	L1	OFF	9.8
4.1450	32.65	56.00	23.35	9.000	L1	OFF	9.8
4.1743	32.64	56.00	23.36	9.000	L1	OFF	9.8
4.2373	31.60	56.00	24.40	9.000	L1	OFF	9.8
4.2553	31.37	56.00	24.63	9.000	L1	OFF	9.8
4.4218	31.99	56.00	24.01	9.000	L1	OFF	9.8
8.4155	36.07	60.00	23.93	9.000	L1	OFF	10.0
8.5190	36.75	60.00	23.25	9.000	L1	OFF	10.0
8.5235	36.48	60.00	23.52	9.000	L1	OFF	10.0
8.5438	36.56	60.00	23.44	9.000	L1	OFF	10.0
8.5753	36.55	60.00	23.45	9.000	L1	OFF	10.0
8.6158	36.69	60.00	23.31	9.000	L1	OFF	10.0

2022-04-27 오후 1:53:11

WLAN 5G_L1 2 / 2

Final_Result_CAV

Frequency (MHz)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.1613	31.46	55.40	23.94	9.000	L1	OFF	9.6
0.2018	27.64	53.54	25.90	9.000	L1	OFF	9.6
0.2423	21.53	52.02	30.49	9.000	L1	OFF	9.6
0.2805	17.75	50.80	33.06	9.000	L1	OFF	9.6
0.4065	27.32	47.72	20.40	9.000	L1	OFF	9.7
0.4538	27.84	46.81	18.96	9.000	L1	OFF	9.7
4.1248	23.25	46.00	22.75	9.000	L1	OFF	9.8
4.1653	22.78	46.00	23.22	9.000	L1	OFF	9.8
4.1743	22.83	46.00	23.17	9.000	L1	OFF	9.8
4.3363	23.98	46.00	22.02	9.000	L1	OFF	9.8
4.3543	23.74	46.00	22.26	9.000	L1	OFF	9.8
4.3610	23.68	46.00	22.32	9.000	L1	OFF	9.8
8.5640	28.85	50.00	21.15	9.000	L1	OFF	10.0
8.6428	28.97	50.00	21.03	9.000	L1	OFF	10.0
8.6878	28.79	50.00	21.21	9.000	L1	OFF	10.0
8.7350	28.72	50.00	21.28	9.000	L1	OFF	10.0
8.7575	28.77	50.00	21.23	9.000	L1	OFF	10.0
8.7665	28.71	50.00	21.29	9.000	L1	OFF	10.0

2022-04-27 오후 1:53:11

Conducted Emissions (Line 2)

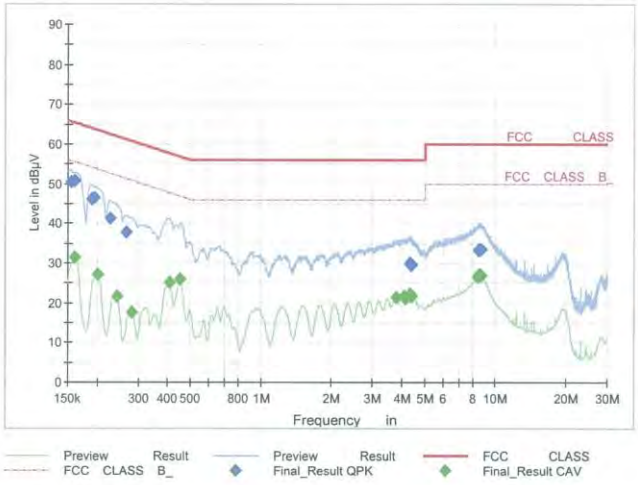
WLAN 5G_N 1 / 2

Test Report

Common Information

EUT :	SM-G736U
Manufacturer :	SAMSUNG
Test Site:	SHIELD ROOM
Operating Conditions :	WLAN 5 GHz_N

Full Spectrum



Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.1545	50.57	65.75	15.19	9.000	N	OFF	9.6
0.1613	50.63	65.40	14.77	9.000	N	OFF	9.6
0.1905	46.27	64.02	17.75	9.000	N	OFF	9.6
0.1950	46.39	63.82	17.44	9.000	N	OFF	9.6
0.2265	41.23	62.58	21.35	9.000	N	OFF	9.6
0.2670	37.89	61.21	23.32	9.000	N	OFF	9.6
4.3093	29.69	56.00	26.31	9.000	N	OFF	9.8
4.3340	29.89	56.00	26.11	9.000	N	OFF	9.8
4.3498	30.05	56.00	25.95	9.000	N	OFF	9.8
4.3565	29.65	56.00	26.35	9.000	N	OFF	9.8
4.3678	29.64	56.00	26.36	9.000	N	OFF	9.8
4.3790	29.43	56.00	26.57	9.000	N	OFF	9.8
8.4808	33.14	60.00	26.86	9.000	N	OFF	10.0
8.5550	33.40	60.00	26.60	9.000	N	OFF	10.0
8.6180	33.40	60.00	26.60	9.000	N	OFF	10.0
8.6518	33.58	60.00	26.42	9.000	N	OFF	10.0
8.6765	33.39	60.00	26.61	9.000	N	OFF	10.0
8.6923	33.36	60.00	26.64	9.000	N	OFF	10.0

2022-04-27 오후 1:43:59

WLAN 5G_N 2 / 2

Final_Result_CAV

Frequency (MHz)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.1613	31.54	55.40	23.86	9.000	N	OFF	9.6
0.2018	27.24	53.54	26.30	9.000	N	OFF	9.6
0.2423	21.52	52.02	30.50	9.000	N	OFF	9.6
0.2805	17.64	50.80	33.16	9.000	N	OFF	9.6
0.4065	24.97	47.72	22.75	9.000	N	OFF	9.7
0.4538	25.84	46.81	20.97	9.000	N	OFF	9.7
3.7715	21.45	46.00	24.55	9.000	N	OFF	9.8
4.0753	21.62	46.00	24.38	9.000	N	OFF	9.8
4.1225	20.92	46.00	25.08	9.000	N	OFF	9.8
4.3115	22.25	46.00	23.75	9.000	N	OFF	9.8
4.3273	22.27	46.00	23.73	9.000	N	OFF	9.8
4.3633	21.66	46.00	24.34	9.000	N	OFF	9.8
8.4425	26.55	50.00	23.45	9.000	N	OFF	10.0
8.5235	26.92	50.00	23.08	9.000	N	OFF	10.0
8.5528	26.97	50.00	23.03	9.000	N	OFF	10.0
8.6045	27.05	50.00	22.95	9.000	N	OFF	10.0
8.6540	26.95	50.00	23.05	9.000	N	OFF	10.0
8.6720	26.90	50.00	23.10	9.000	N	OFF	10.0

2022-04-27 오후 1:43:59

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	MY49432108	03/08/2023	Annual
Power Meter	N1911A	Agilent	MY45100523	03/24/2023	Annual
Power Sensor	N1921A	Agilent	MY57820067	03/24/2023	Annual
Directional Coupler	87300B	Agilent	3116A03621	11/02/2022	Annual
Power Splitter	11667B	Hewlett Packard	10545	02/03/2023	Annual
DC Power Supply	E3632A	HP	KR75303243	04/25/2023	Annual
Attenuator(10 dB)(DC-26.5 GHz)	8493C	HP	07560	06/18/2022	Annual
Attenuator(10 dB)(DC-26.5 GHz)	8493C	HP	08285	06/28/2022	Annual
Attenuator(20 dB)	18N-20dB	Rohde & Schwarz	8	03/07/2023	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
EM1000 / Controller	EM1000	Audix	060520	N/A	N/A
Turn Table	N/A	Audix	N/A	N/A	N/A
Amp &Filter Bank Switch Controller	FBSM-01B	TNM system	TM19050002	N/A	N/A
Loop Antenna	FMZB 1513	Rohde & Schwarz	1513-333	03/17/2024	Biennial
Hybrid Antenna	VULB 9168	Schwarzbeck	9168-0895	09/04/2022	Biennial
Horn Antenna	BBHA 9120D	Schwarzbeck	9120D-1300	01/18/2024	Biennial
Horn Antenna(15 GHz ~ 40 GHz)	BBHA9170	Schwarzbeck	BBHA9170124	04/12/2023	Biennial
Spectrum Analyzer	FSV(10 Hz ~ 40 GHz)	Rohde & Schwarz	101055	05/14/2022	Annual
Band Reject Filter	WRCJV2400/2483.5-2370/2520-60/12SS	Wainwright Instruments	2	01/06/2023	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
High Pass Filter(7 GHz ~ 18 GHz)	WHKX10-7150-8000-18000-50SS	Wainwright Instruments	1	03/11/2023	Annual
Power Amplifier	CBL18265035	CERNEX	22966	12/02/2022	Annual
Power Amplifier	CBL26405040	CERNEX	25956	03/11/2023	Annual
HPF(3~18GHz) + LNA1(1~18GHz)	FMSR-05B	TNM system	F6	01/19/2023	Annual
ATT(10dB) + LNA1(1~18GHz)	FMSR -05B	TNM system	None	01/19/2023	Annual
ATT(3dB) + LNA1(1~18GHz)	FMSR -05B	TNM system	None	01/19/2023	Annual
LNA1(1~18GHz)	FMSR -05B	TNM system	25540	01/19/2023	Annual
HPF(7~18GHz) + LNA2(6~18GHz)	FMSR -05B	TNM system	28550	01/19/2023	Annual
Thru(30MHz ~ 18GHz)	FMSR -05B	TNM system	None	01/19/2023	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-FC050-P