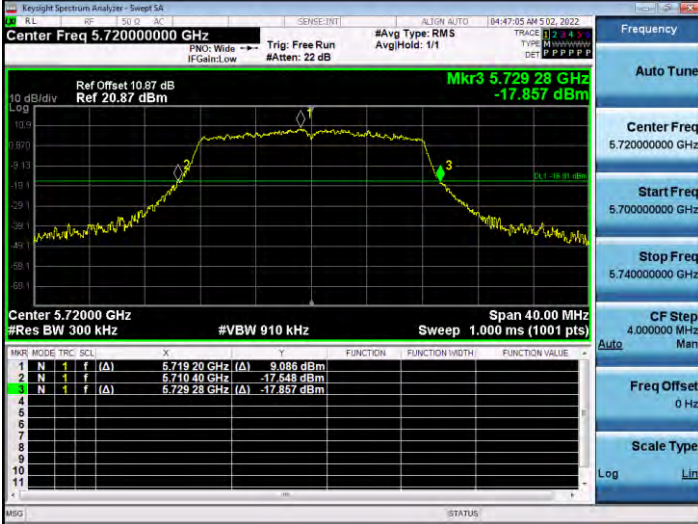


[Ant.2]

☑ Test Plots (26 dB Bandwidth)

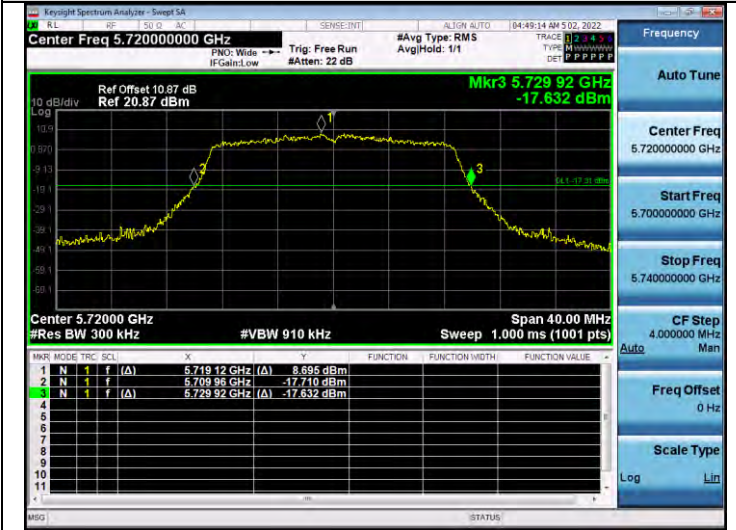
802.11a UNII Band



802.11n(HT20) UNII Band



802.11ac(VHT20) UNII Band



☐ Test Plots (26 dB Bandwidth)

802.11n(HT40) UNII Band



802.11ac(VHT40) UNII Band



802.11ac(VHT80) UNII Band



10.7.2 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	5727.56	2.56	> 0.5
802.11n(HT20)				5728.44	3.44	> 0.5
802.11ac(VHT20)				5728.44	3.44	> 0.5

Mode	Band	Frequency [MHz]	Channel	Measured Frequency [MHz]	6 dB Bandwidth [MHz]	Limit [MHz]
802.11n(HT40)	UNII 3	5710	142	5727.52	2.52	> 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	5727.60	2.60	> 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	5727.80	2.80	> 0.5
802.11n(HT20)				5727.52	2.52	> 0.5
802.11ac(VHT20)				5728.44	3.44	> 0.5

Mode	Band	Frequency [MHz]	Channel	Measured Frequency [MHz]	6 dB Bandwidth [MHz]	Limit [MHz]
802.11n(HT40)	UNII 3	5710	142	5727.52	2.52	> 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	5727.60	2.60	> 0.5

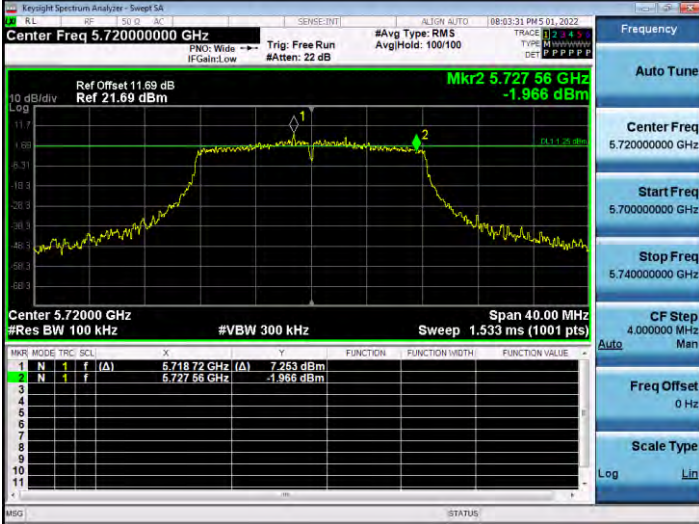
Note:

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

[Ant.1]

☐ Test Plots(UNII 3 Band 6 dB Bandwidth)

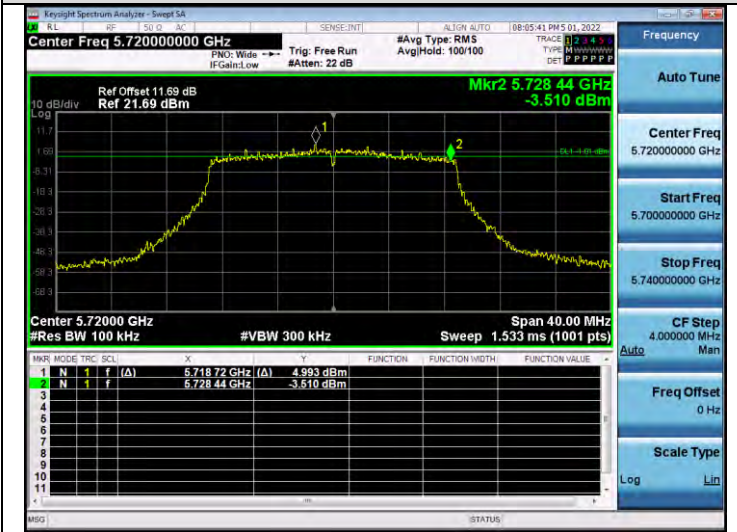
802.11a CH.144



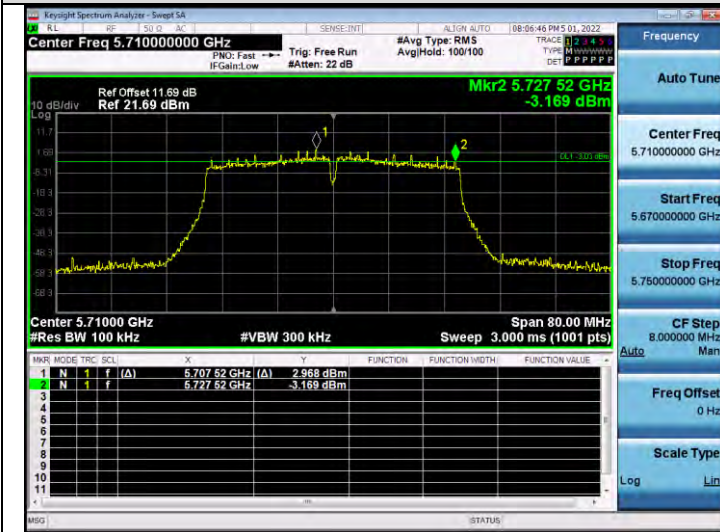
802.11n_HT20 CH.144



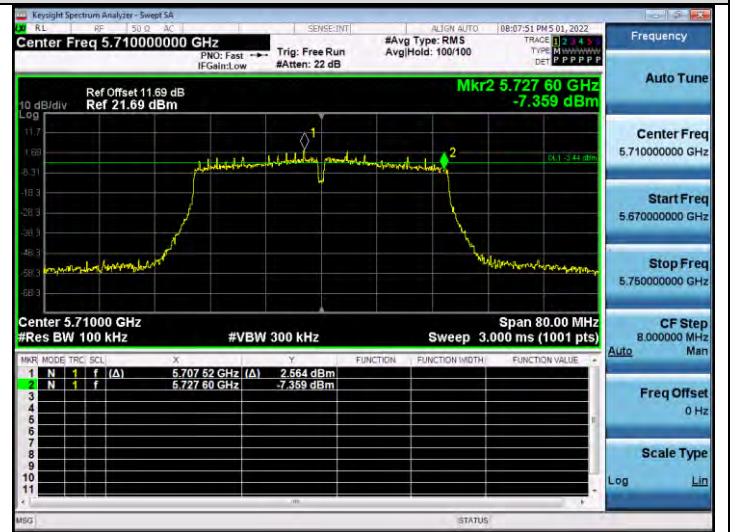
802.11ac_VHT20 CH.144



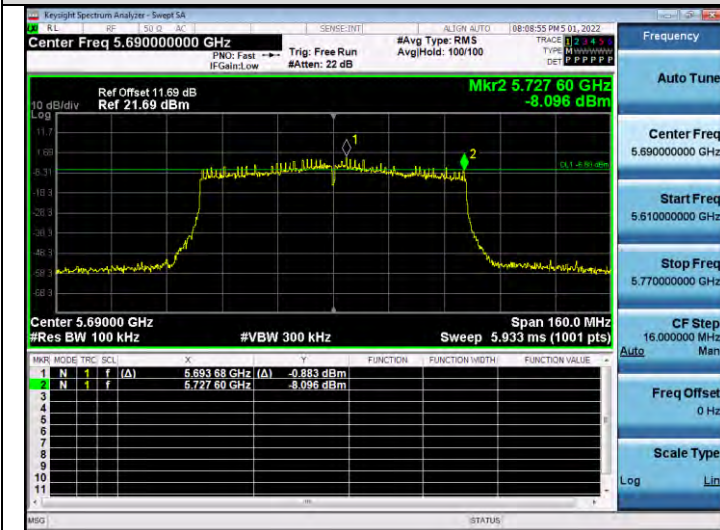
802.11n_HT40 CH.142



802.11ac_VHT40 CH.142



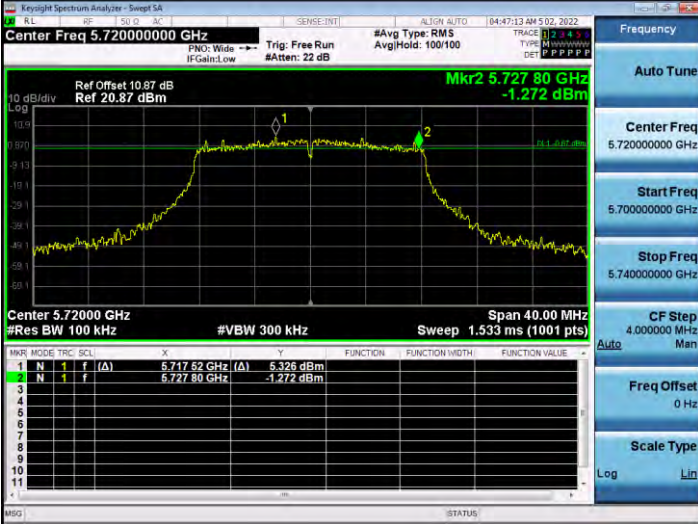
802.11ac_VHT80 CH.138



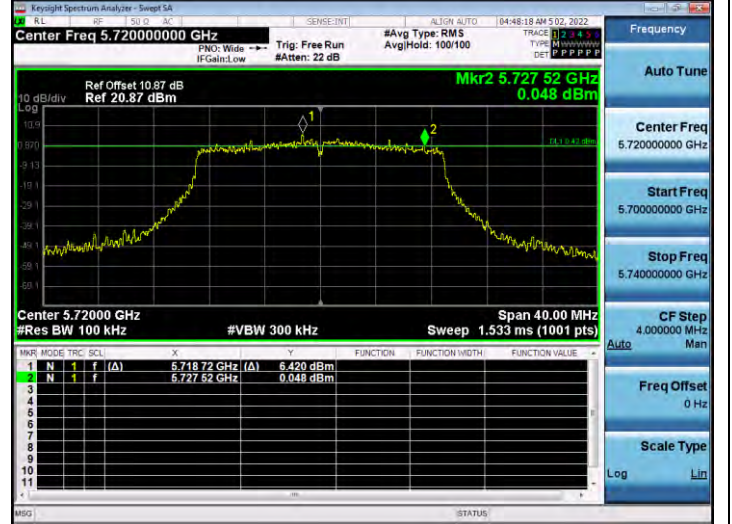
[Ant.2]

☑ Test Plots(UNII 3 Band 6 dB Bandwidth)

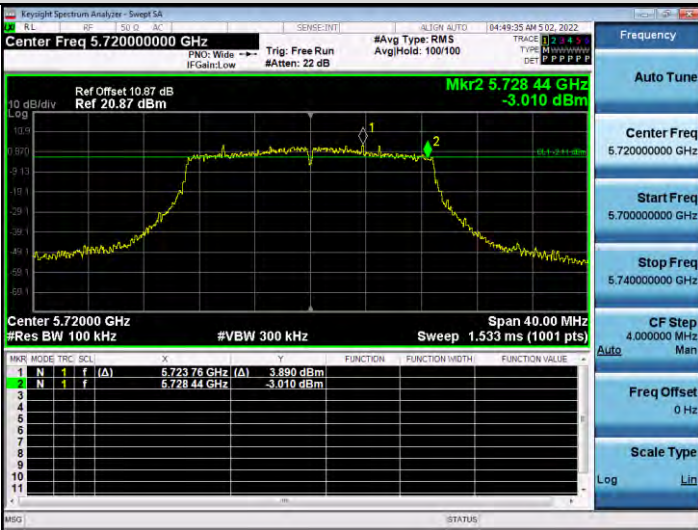
802.11a CH.144



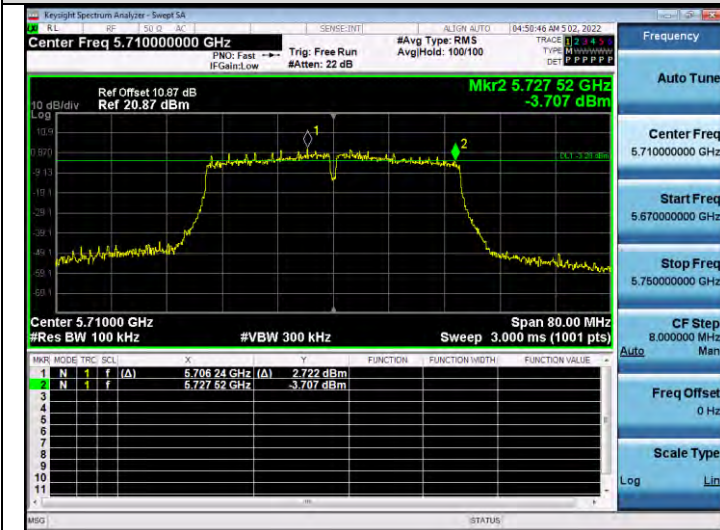
802.11n_HT20 CH.144



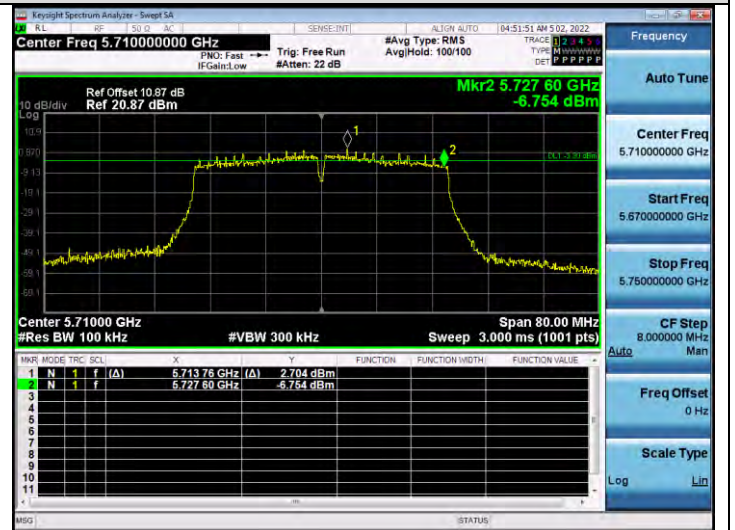
802.11ac_VHT20 CH.144



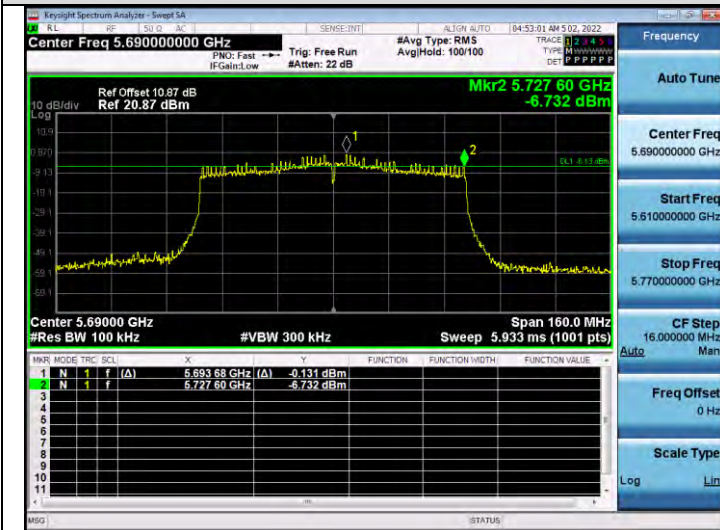
802.11n_HT40 CH.142



802.11ac_VHT40 CH.142



802.11ac_VHT80 CH.138



10.7.3 Output Power

[Ant.1]

Mode	Frequency [MHz]	Channel	Measured Power [dBm]	Duty Cycle Factor [dB]	Total Power [dBm]	Limit [dBm]	Worstcase Datarate
802.11a	5720	144	16.52	0.261	16.78	22.66	6 Mbps
802.11n(HT20)	(UNII 2C		16.16	0.319	16.48	22.83	MCS0
802.11ac(VHT20)	Band)		15.19	0.322	15.51	22.75	MCS0
802.11a	5720	144	8.57	0.261	8.83	30.00	6 Mbps
802.11n(HT20)	(UNII 3		8.84	0.319	9.16	30.00	MCS0
802.11ac(VHT20)	Band)		7.81	0.322	8.13	30.00	MCS0

Mode	Frequency [MHz]	Channel	Measured Power [dBm]	Duty Cycle Factor [dB]	Total Power [dBm]	Limit [dBm]	Worstcase Datarate
802.11n(HT40)	5710	142	15.18	0.641	15.83	23.98	MCS0
802.11ac(VHT40)	(UNII 2C Band)		14.31	0.619	14.93	23.98	MCS0
802.11n(HT40)	5710	142	2.82	0.641	3.46	30.00	MCS0
802.11ac(VHT40)	(UNII 3 Band)		1.97	0.619	2.59	30.00	MCS0

Mode	Frequency [MHz]	Channel	Measured Power [dBm]	Duty Cycle Factor [dB]	Total Power [dBm]	Limit [dBm]	Worstcase Datarate
802.11ac(VHT80)	5690 (UNII 2C Band)	138	12.91	1.161	14.07	23.98	MCS0
	5690 (UNII 3 Band)	138	-3.82	1.161	-2.66	30.00	MCS0

[Ant.2]

Mode	Frequency [MHz]	Channel	Measured Power [dBm]	Duty Cycle Factor [dB]	Total Power [dBm]	Limit [dBm]	Worstcase Datarate
802.11a	5720	144	16.15	0.261	16.41	22.64	6 Mbps
802.11n(HT20)	(UNII 2C		15.87	0.319	16.18	22.74	MCS0
802.11ac(VHT20)	Band)		15.59	0.322	15.91	22.77	MCS0
802.11a	5720	144	8.26	0.261	8.52	30.00	6 Mbps
802.11n(HT20)	(UNII 3		8.43	0.319	8.75	30.00	MCS0
802.11ac(VHT20)	Band)		8.21	0.322	8.53	30.00	MCS0

Mode	Frequency [MHz]	Channel	Measured Power [dBm]	Duty Cycle Factor [dB]	Total Power [dBm]	Limit [dBm]	Worstcase Datarate
802.11n(HT40)	5710	142	15.69	0.641	16.33	23.98	MCS0
802.11ac(VHT40)	(UNII 2C Band)		15.05	0.619	15.67	23.98	MCS0
802.11n(HT40)	5710	142	3.45	0.641	4.09	30.00	MCS0
802.11ac(VHT40)	(UNII 3 Band)		2.76	0.619	3.38	30.00	MCS0

Mode	Frequency [MHz]	Channel	Measured Power [dBm]	Duty Cycle Factor [dB]	Total Power [dBm]	Limit [dBm]	Worstcase Datarate
802.11ac(VHT80)	5690 (UNII 2C Band)	138	13.46	1.161	14.63	23.98	MCS0
	5690 (UNII 3 Band)	138	-3.08	1.161	-1.91	30.00	MCS0

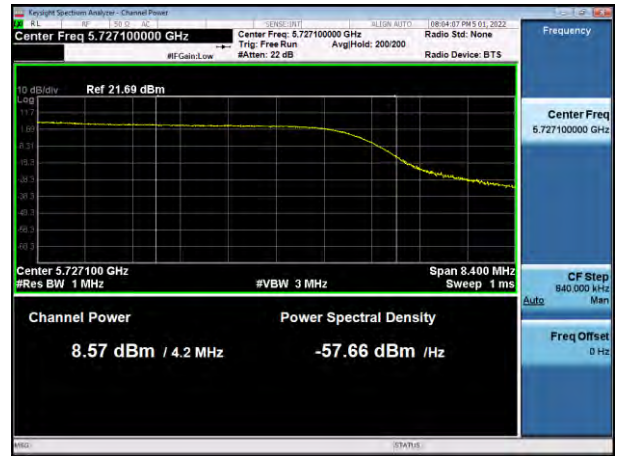
[Ant.1]

☑ Test Plots

802.11a UNII 2C Band



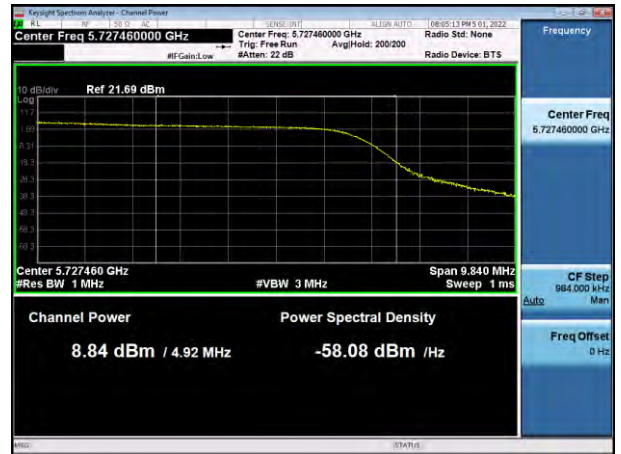
802.11a UNII 3 Band



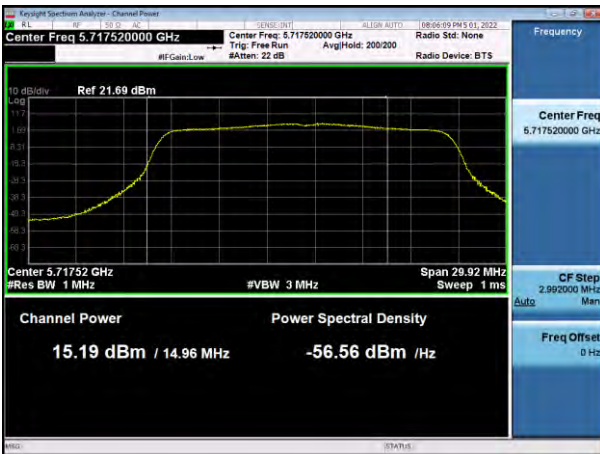
802.11n(HT20) UNII 2C Band



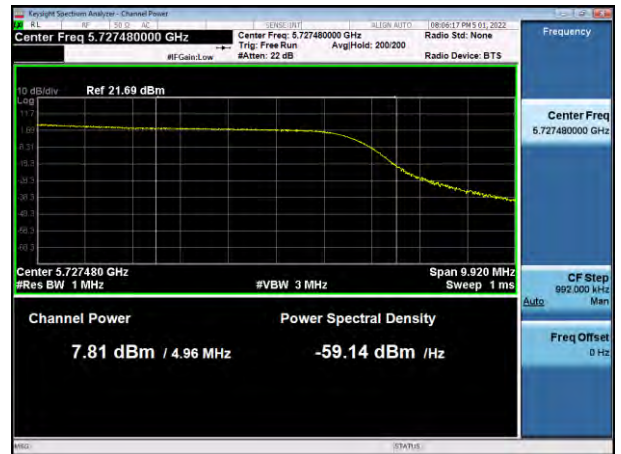
802.11n(HT20) UNII 3 Band



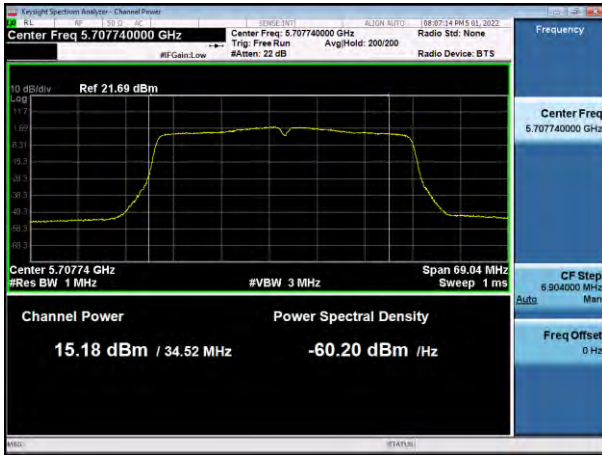
802.11ac(VHT20) UNII 2C Band



802.11ac(VHT20) UNII 3 Band



802.11n(HT40) UNII 2C Band



802.11n(HT40) UNII 3 Band



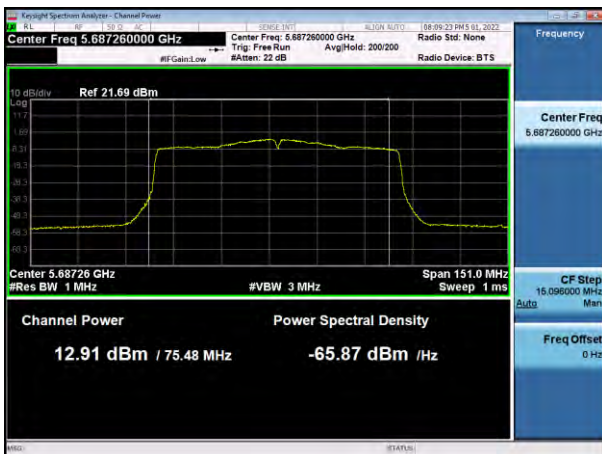
802.11ac(VHT40) UNII 2C Band



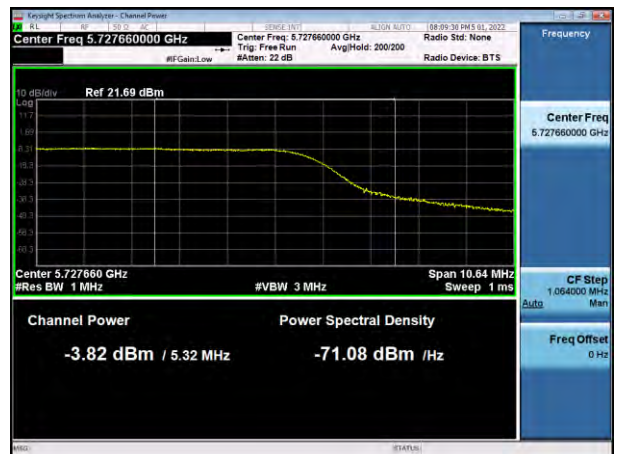
802.11ac(VHT40) UNII 3 Band



802.11ac(VHT80) UNII 2C Band

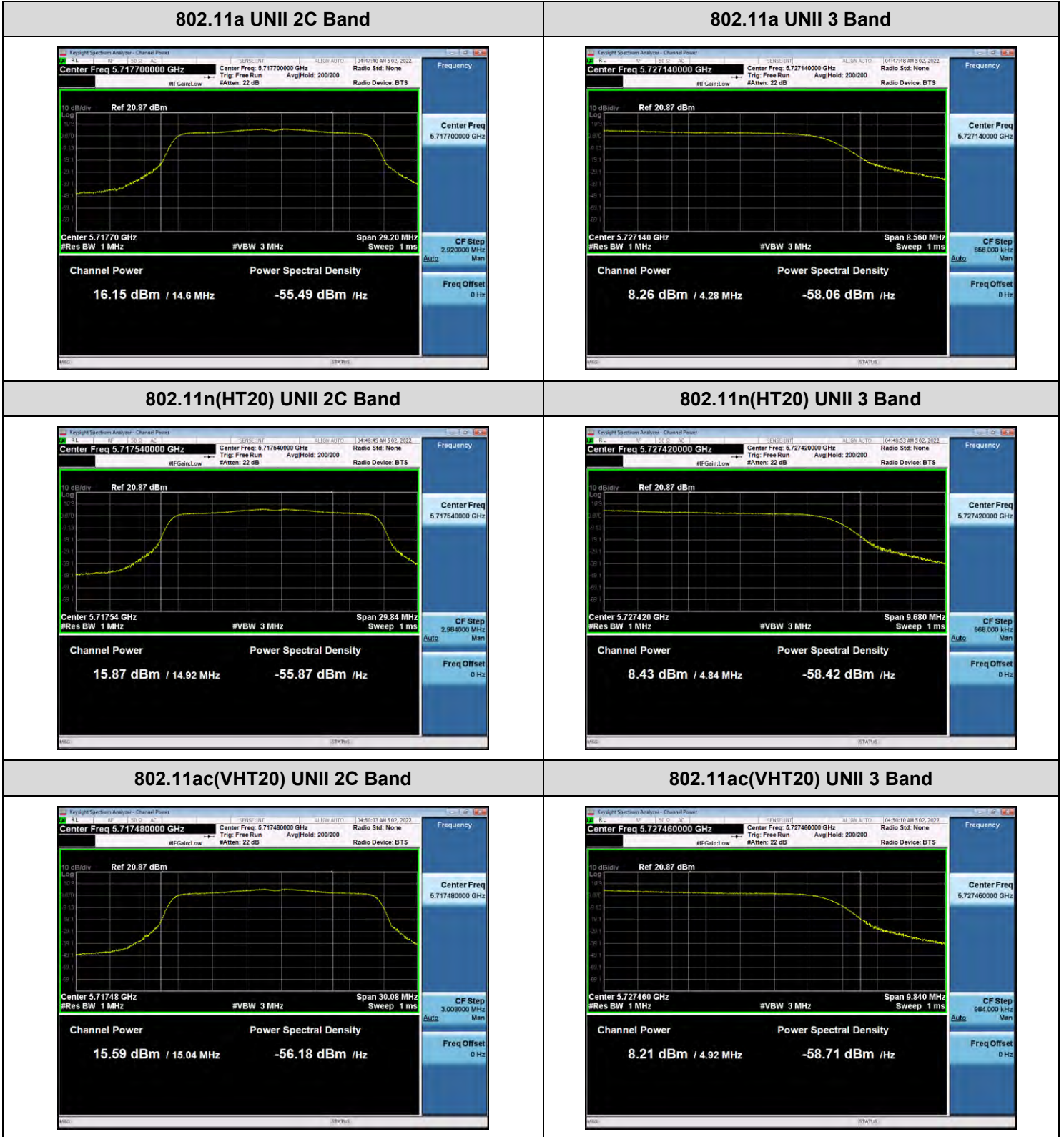


802.11ac(VHT80) UNII 3 Band

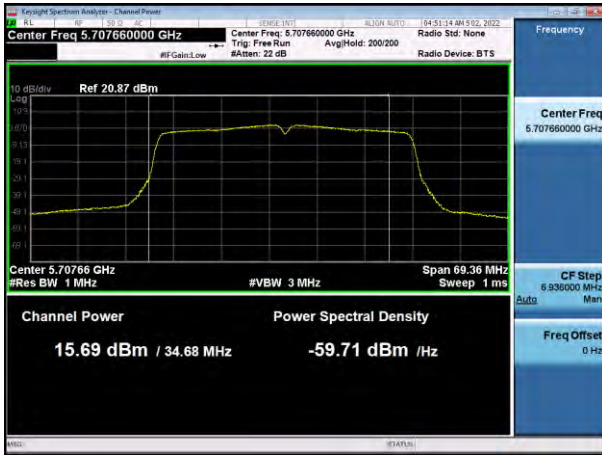


[Ant.2]

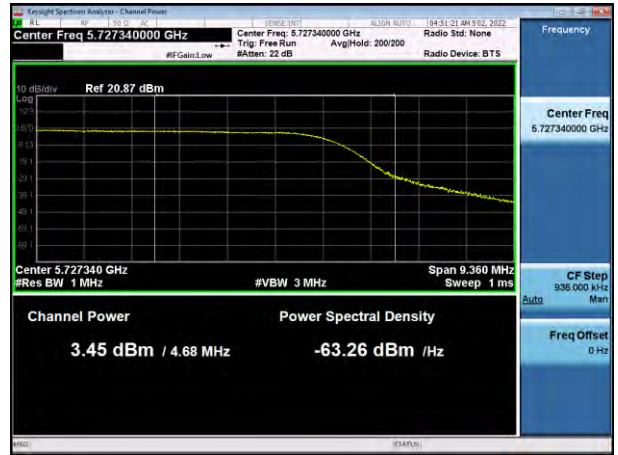
Test Plots



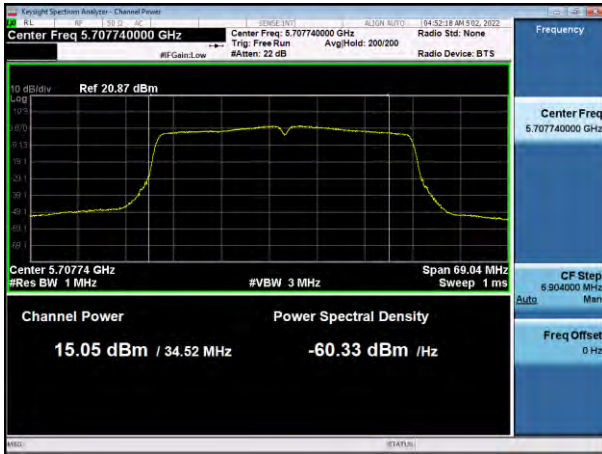
802.11n(HT40) UNII 2C Band



802.11n(HT40) UNII 3 Band



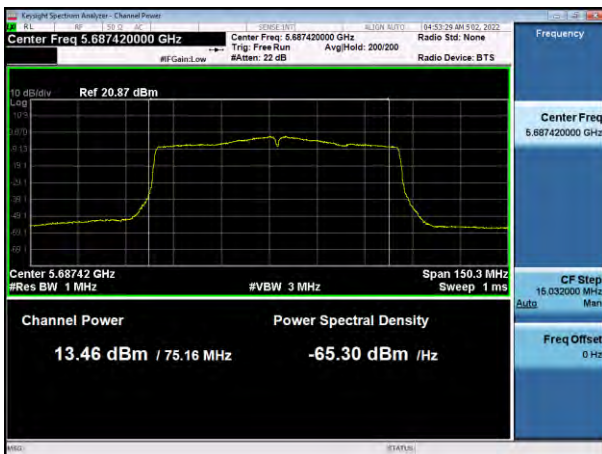
802.11ac(VHT40) UNII 2C Band



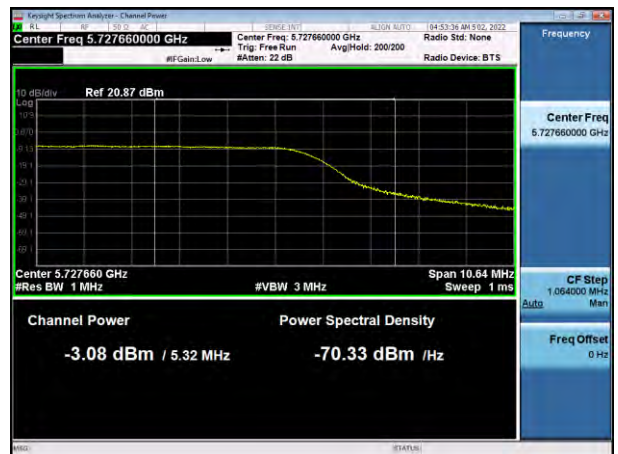
802.11ac(VHT40) UNII 3 Band



802.11ac(VHT80) UNII 2C Band



802.11ac(VHT80) UNII 3 Band



10.7.4 Power Spectral Density

[Ant.1]

Mode	Frequency [MHz]	Channel	Measured Density [dBm]	Duty Cycle Factor [dB]	Total PSD [dBm]	Limit [dBm]	Worstcase Datarate
802.11a	5720	144	7.187	0.261	7.448	11 dBm/ MHz	6 Mbps
802.11n(HT20)	(UNII 2C		7.224	0.319	7.543		MCS0
802.11ac(VHT20)	Band)		6.005	0.322	6.327		MCS0
802.11a	5720	144	1.572	0.261	1.833	30 dB/ 500 kHz	6 Mbps
802.11n(HT20)	(UNII 3		1.444	0.319	1.763		MCS0
802.11ac(VHT20)	Band)		0.177	0.322	0.499		MCS0

Mode	Frequency [MHz]	Channel	Measured Density [dBm]	Duty Cycle Factor [dB]	Total PSD [dBm]	Limit [dBm]	Worstcase Datarate
802.11n(HT40)	5710	142	2.492	0.641	3.133	11 dBm/ MHz	MCS0
802.11ac(VHT40)	(UNII 2C Band)		1.579	0.619	2.198		MCS0
802.11n(HT40)	5710	142	-4.600	0.641	-3.958	30 dBm/ 500 kHz	MCS0
802.11ac(VHT40)	(UNII 3 Band)		-5.439	0.619	-4.820		MCS0

Mode	Frequency [MHz]	Channel	Measured Density [dBm]	Duty Cycle Factor [dB]	Total PSD [dBm]	Limit [dBm]	Worstcase Datarate
802.11ac(VHT80)	5690	138	-2.178	1.161	-1.017	11 dBm/ MHz	MCS0
	(UNII 2C Band)						
	5690	138	-11.145	1.161	-9.984	30 dBm/ 500 kHz	MCS0
	(UNII 3 Band)						

[Ant.2]

Mode	Frequency [MHz]	Channel	Measured Density [dBm]	Duty Cycle Factor [dB]	Total PSD [dBm]	Limit [dBm]	Worstcase Datarate
802.11a	5720	144	7.123	0.261	7.384	11 dBm/ MHz	6 Mbps
802.11n(HT20)	(UNII 2C		6.643	0.319	6.962		MCS0
802.11ac(VHT20)	Band)		6.342	0.322	6.664		MCS0
802.11a	5720	144	1.148	0.261	1.410	30 dBm/500 kHz	6 Mbps
802.11n(HT20)	(UNII 3		0.915	0.319	1.234		MCS0
802.11ac(VHT20)	Band)		0.305	0.322	0.627		MCS0

Mode	Frequency [MHz]	Channel	Measured Density [dBm]	Duty Cycle Factor [dB]	Total PSD [dBm]	Limit [dBm]	Worstcase Datarate
802.11n(HT40)	5710	142	3.277	0.641	3.918	11 dBm/ MHz	MCS0
802.11ac(VHT40)	(UNII 2C Band)		2.357	0.619	2.977		MCS0
802.11n(HT40)	5710	142	-3.902	0.641	-3.260	30 dBm/ 500 kHz	MCS0
802.11ac(VHT40)	(UNII 3 Band)		-4.318	0.619	-3.699		MCS0

Mode	Frequency [MHz]	Channel	Measured Density [dBm]	Duty Cycle Factor [dB]	Total PSD [dBm]	Limit [dBm]	Worstcase Datarate
802.11ac(VHT80)	5690	138	-1.690	1.161	-0.529	11 dBm/ MHz	MCS0
	(UNII 2C Band)						
	5690	138	-10.608	1.161	-9.447	30 dBm/ 500 kHz	MCS0
	(UNII 3 Band)						

[Ant.1]

Test Plots

802.11a UNII 2C Band



802.11a UNII 3 Band



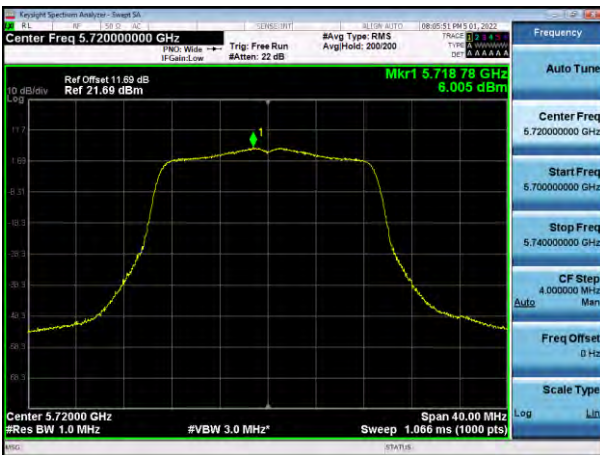
802.11n(HT20) UNII 2C Band



802.11n(HT20) UNII 3 Band



802.11ac(VHT20) UNII 2C Band



802.11ac(VHT20) UNII 3 Band



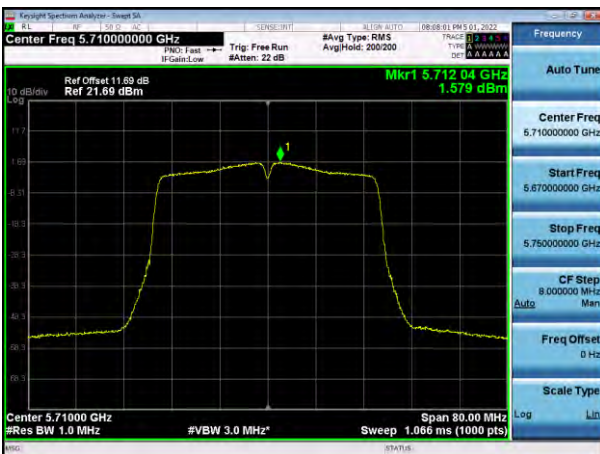
802.11n(HT40) UNII 2C Band



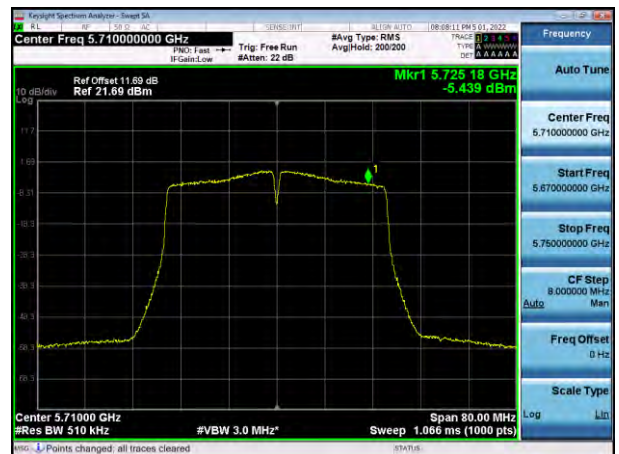
802.11n(HT40) UNII 3 Band



802.11ac(VHT40) UNII 2C Band



802.11ac(VHT40) UNII 3 Band



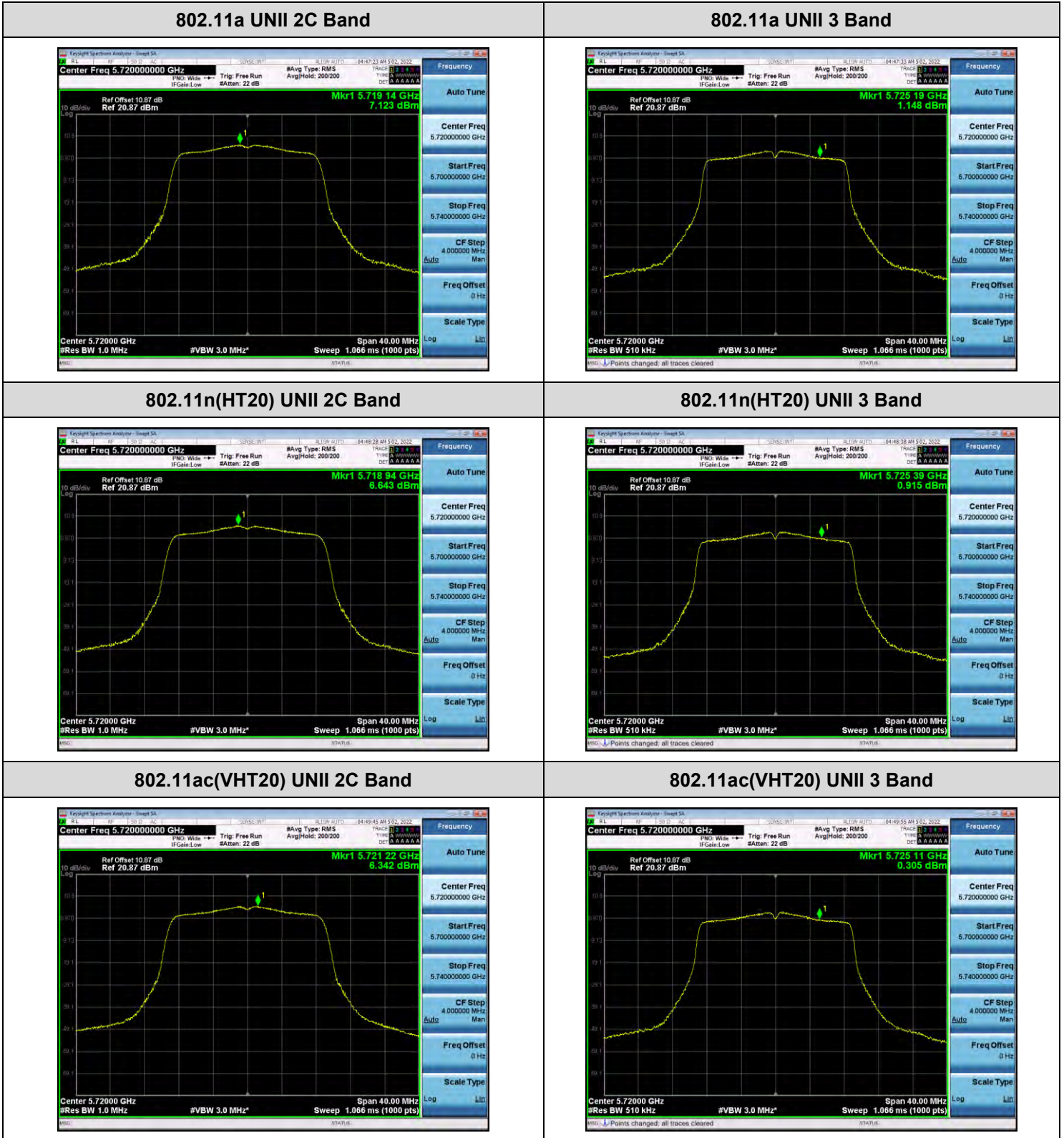
802.11ac(VHT80) UNII 2C Band



802.11ac(VHT80) UNII 3 Band



[Ant.2]
Test Plots



802.11n(HT40) UNII 2C Band



802.11n(HT40) UNII 3 Band



802.11ac(VHT40) UNII 2C Band



802.11ac(VHT40) UNII 3 Band



802.11ac(VHT80) UNII 2C Band



802.11ac(VHT80) UNII 3 Band



10.8 RADIATED SPURIOUS EMISSIONS

Frequency Range : 9 kHz – 30 MHz

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

Note:

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

Frequency Range : Below 1 GHz

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

Note:

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

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

Frequency Range : Above 1 GHz

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

Frequency [MHz]	Measured Value [dB μ V]	CL+AF+DF-AG [dB/m]	POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
10360	48.13	4.78	V	52.91	68.20	15.29	PK
15540	46.33	4.74	V	51.07	73.98	22.91	PK
15540	33.01	4.74	V	37.75	53.98	16.23	AV
10360	47.90	4.78	H	52.68	68.20	15.52	PK
15540	46.60	4.74	H	51.34	73.98	22.64	PK
15540	33.10	4.74	H	37.84	53.98	16.14	AV

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

Frequency [MHz]	Measured Value [dB μ V]	CL+AF+DF-AG [dB/m]	POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
10400	49.36	4.37	V	53.73	68.20	14.47	PK
15600	46.72	4.20	V	50.92	73.98	23.06	PK
15600	33.11	4.20	V	37.31	53.98	16.67	AV
10400	49.63	4.37	H	54.00	68.20	14.20	PK
15600	46.92	4.20	H	51.12	73.98	22.86	PK
15600	33.24	4.20	H	37.44	53.98	16.54	AV

Band : UNII 1

Operation Mode: 802.11 a

Transfer Rate: 6 Mbps

Operating Frequency 5240 MHz

Channel No. 48 Ch

Frequency [MHz]	Measured Value [dB μ V]	CL+AF+DF-AG [dB/m]	POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
10480	49.01	5.17	V	54.18	68.20	14.02	PK
15720	46.55	3.76	V	50.31	73.98	23.67	PK
15720	32.83	3.76	V	36.59	53.98	17.39	AV
10480	48.92	5.17	H	54.09	68.20	14.11	PK
15720	47.01	3.76	H	50.77	73.98	23.21	PK
15720	33.03	3.76	H	36.79	53.98	17.19	AV

Band : UNII 2A

Operation Mode: 802.11 a

Transfer Rate: 6 Mbps

Operating Frequency 5260 MHz

Channel No. 52 Ch

Frequency [MHz]	Measured Value [dB μ V]	CL+AF+DF-AG [dB/m]	POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
10520	49.54	4.93	V	54.47	68.20	13.73	PK
15780	46.47	4.08	V	50.55	73.98	23.43	PK
15780	32.57	4.08	V	36.65	53.98	17.33	AV
10520	49.31	4.93	H	54.24	68.20	13.96	PK
15780	46.51	4.08	H	50.59	73.98	23.39	PK
15780	32.66	4.08	H	36.74	53.98	17.24	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	49.25	5.16	V	54.41	73.98	19.57	PK
10600	35.43	5.16	V	40.59	53.98	13.39	AV
15900	46.28	5.46	V	51.74	73.98	22.24	PK
15900	32.23	5.46	V	37.69	53.98	16.29	AV
10600	48.72	5.16	H	53.88	73.98	20.10	PK
10600	34.99	5.16	H	40.15	53.98	13.83	AV
15900	45.93	5.46	H	51.39	73.98	22.59	PK
15900	31.82	5.46	H	37.28	53.98	16.70	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	50.41	5.36	V	55.77	73.98	18.21	PK
10640	36.24	5.36	V	41.60	53.98	12.38	AV
15960	46.69	4.92	V	51.61	73.98	22.37	PK
15960	32.73	4.92	V	37.65	53.98	16.33	AV
10640	49.23	5.36	H	54.59	73.98	19.39	PK
10640	35.75	5.36	H	41.11	53.98	12.87	AV
15960	46.27	4.92	H	51.19	73.98	22.79	PK
15960	32.42	4.92	H	37.34	53.98	16.64	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	47.33	5.57	V	52.90	73.98	21.08	PK
11000	33.51	5.57	V	39.08	53.98	14.90	AV
16500	46.32	7.18	V	53.50	68.20	14.70	PK
11000	46.65	5.57	H	52.22	73.98	21.76	PK
11000	33.58	5.57	H	39.15	53.98	14.83	AV
16500	46.27	7.18	H	53.45	68.20	14.75	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	47.31	5.43	V	52.74	73.98	21.24	PK
11200	33.42	5.43	V	38.85	53.98	15.13	AV
16800	45.48	8.86	V	54.34	68.20	13.86	PK
11200	47.54	5.43	H	52.97	73.98	21.01	PK
11200	33.99	5.43	H	39.42	53.98	14.56	AV
16800	45.60	8.86	H	54.46	68.20	13.74	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	47.71	5.08	V	52.79	73.98	21.19	PK
11440	33.62	5.08	V	38.70	53.98	15.28	AV
17160	45.75	8.92	V	54.67	68.20	13.53	PK
11440	47.35	5.08	H	52.43	73.98	21.55	PK
11440	33.59	5.08	H	38.67	53.98	15.31	AV
17160	50.34	8.92	H	59.26	68.20	8.94	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	47.38	5.07	V	52.45	73.98	21.53	PK
11490	33.57	5.07	V	38.64	53.98	15.34	AV
17235	48.67	9.49	V	58.16	68.20	10.04	PK
11490	47.05	5.07	H	52.12	73.98	21.86	PK
11490	33.52	5.07	H	38.59	53.98	15.39	AV
17235	49.55	9.49	H	59.04	68.20	9.16	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	47.91	5.07	V	52.98	73.98	21.00	PK
11570	33.75	5.07	V	38.82	53.98	15.16	AV
17355	48.34	10.87	V	59.21	68.20	8.99	PK
11570	47.19	5.07	H	52.26	73.98	21.72	PK
11570	33.33	5.07	H	38.40	53.98	15.58	AV
17355	48.68	10.87	H	59.55	68.20	8.65	PK

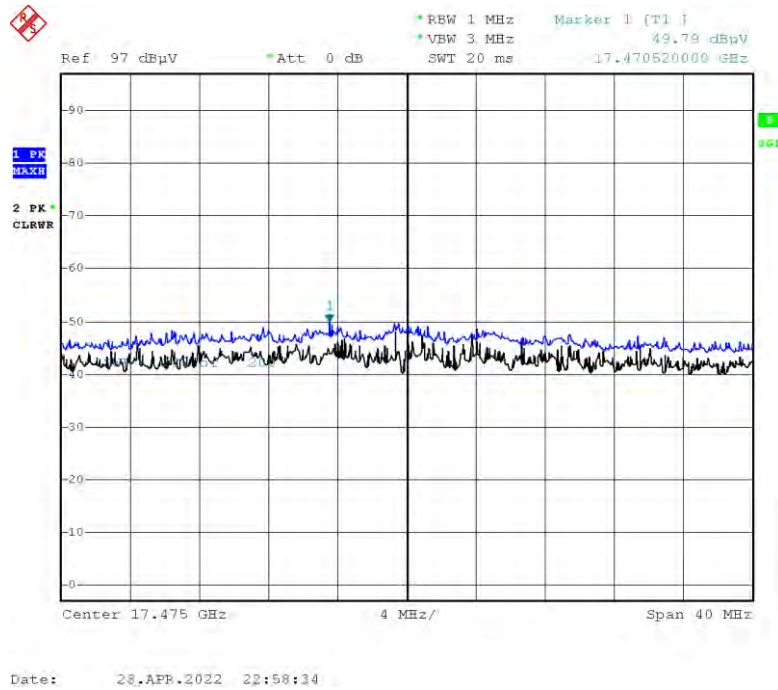
Band : UNII 3
 Operation Mode: 802.11 a
 Transfer Rate: 6 Mbps
 Operating Frequency 5825 MHz
 Channel No. 165 Ch

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	47.97	4.76	V	52.73	73.98	21.25	PK
11650	33.99	4.76	V	38.75	53.98	15.23	AV
17475	48.22	10.29	V	58.51	68.20	9.69	PK
11650	47.04	4.76	H	51.80	73.98	22.18	PK
11650	33.36	4.76	H	38.12	53.98	15.86	AV
17475	49.79	10.29	H	60.08	68.20	8.12	PK

▣ Test Plots

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

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



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 [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
5150	44.59	12.12	H	56.71	73.98	17.27	PK
5150	30.89	12.12	H	43.01	53.98	10.97	AV
5150	44.26	12.12	V	56.38	73.98	17.60	PK
5150	30.84	12.12	V	42.96	53.98	11.02	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]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
5350	46.00	12.14	H	58.14	73.98	15.84	PK
5350	31.83	12.14	H	43.97	53.98	10.01	AV
5350	45.95	12.14	V	58.09	73.98	15.89	PK
5350	31.47	12.14	V	43.61	53.98	10.37	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 [dB μ V]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
5460	44.14	12.67	H	56.81	73.98	17.17	PK
5460	30.78	12.67	H	43.45	53.98	10.53	AV
5470	43.89	12.70	H	56.59	68.20	11.61	PK
5460	43.57	12.67	V	56.24	73.98	17.74	PK
5460	30.34	12.67	V	43.01	53.98	10.97	AV
5470	43.75	12.70	V	56.45	68.20	11.75	PK

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

Frequency [MHz]	Measured Value [dB μ V]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
5150	44.11	12.12	H	56.23	73.98	17.75	PK
5150	30.83	12.12	H	42.95	53.98	11.03	AV
5150	43.86	12.12	V	55.98	73.98	18.00	PK
5150	30.67	12.12	V	42.79	53.98	11.19	AV

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

Frequency [MHz]	Measured Value [dB μ V]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
5350	44.67	12.14	H	56.81	73.98	17.17	PK
5350	31.34	12.14	H	43.48	53.98	10.50	AV
5350	44.32	12.14	V	56.46	73.98	17.52	PK
5350	31.27	12.14	V	43.41	53.98	10.57	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 [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
5460	44.64	12.67	H	57.31	73.98	16.67	PK
5460	30.84	12.67	H	43.51	53.98	10.47	AV
5470	43.23	12.70	H	55.93	68.20	12.27	PK
5460	44.27	12.67	V	56.94	73.98	17.04	PK
5460	30.75	12.67	V	43.42	53.98	10.56	AV
5470	43.09	12.70	V	55.79	68.20	12.41	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 [dB μ V]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
5150	43.95	12.12	H	56.07	73.98	17.91	PK
5150	30.91	12.12	H	43.03	53.98	10.95	AV
5150	43.66	12.12	V	55.78	73.98	18.20	PK
5150	30.75	12.12	V	42.87	53.98	11.11	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 [dB μ V]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
5350	44.34	12.14	H	56.48	73.98	17.50	PK
5350	30.81	12.14	H	42.95	53.98	11.03	AV
5350	44.07	12.14	V	56.21	73.98	17.77	PK
5350	30.59	12.14	V	42.73	53.98	11.25	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 [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
5460	44.13	12.67	H	56.80	73.98	17.18	PK
5460	30.69	12.67	H	43.36	53.98	10.62	AV
5470	43.60	12.70	H	56.30	68.20	11.90	PK
5460	43.83	12.67	V	56.50	73.98	17.48	PK
5460	30.47	12.67	V	43.14	53.98	10.84	AV
5470	43.48	12.70	V	56.18	68.20	12.02	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 [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
5150	43.95	12.12	H	56.07	73.98	17.91	PK
5150	31.91	12.12	H	44.03	53.98	9.95	AV
5150	43.33	12.12	V	55.45	73.98	18.53	PK
5150	31.48	12.12	V	43.60	53.98	10.38	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 [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
5350	46.11	12.14	H	58.25	73.98	15.73	PK
5350	33.09	12.14	H	45.23	53.98	8.75	AV
5350	45.87	12.14	V	58.01	73.98	15.97	PK
5350	32.93	12.14	V	45.07	53.98	8.91	AV

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

Frequency [MHz]	Measured Value [dB μ V]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
5460	44.12	12.67	H	56.79	73.98	17.19	PK
5460	31.33	12.67	H	44.00	53.98	9.98	AV
5470	44.03	12.70	H	56.73	68.20	11.47	PK
5460	43.96	12.67	V	56.63	73.98	17.35	PK
5460	31.24	12.67	V	43.91	53.98	10.07	AV
5470	44.01	12.70	V	56.71	68.20	11.49	PK

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

Frequency [MHz]	Measured Value [dB μ V]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
5150	44.77	12.12	H	56.89	73.98	17.09	PK
5150	31.88	12.12	H	44.00	53.98	9.98	AV
5150	44.37	12.12	V	56.49	73.98	17.49	PK
5150	31.62	12.12	V	43.74	53.98	10.24	AV

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

Frequency [MHz]	Measured Value [dB μ V]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
5350	43.81	12.14	H	55.95	73.98	18.03	PK
5350	31.58	12.14	H	43.72	53.98	10.26	AV
5350	43.34	12.14	V	55.48	73.98	18.50	PK
5350	31.27	12.14	V	43.41	53.98	10.57	AV

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

Frequency [MHz]	Measured Value [dB μ V]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
5460	43.55	12.67	H	56.22	73.98	17.76	PK
5460	31.27	12.67	H	43.94	53.98	10.04	AV
5470	42.86	12.70	H	55.56	68.20	12.64	PK
5460	43.17	12.67	V	55.84	73.98	18.14	PK
5460	31.09	12.67	V	43.76	53.98	10.22	AV
5470	42.51	12.70	V	55.21	68.20	12.99	PK

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

Frequency [MHz]	Measured Value [dB μ V]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
5150	45.31	12.12	H	57.43	73.98	16.55	PK
5150	32.96	12.12	H	45.08	53.98	8.90	AV
5150	44.93	12.12	V	57.05	73.98	16.93	PK
5150	32.21	12.12	V	44.33	53.98	9.65	AV

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

Frequency [MHz]	Measured Value [dB μ V]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
5350	43.71	12.14	H	55.85	73.98	18.13	PK
5350	32.81	12.14	H	44.95	53.98	9.03	AV
5350	43.54	12.14	V	55.68	73.98	18.30	PK
5350	32.36	12.14	V	44.50	53.98	9.48	AV

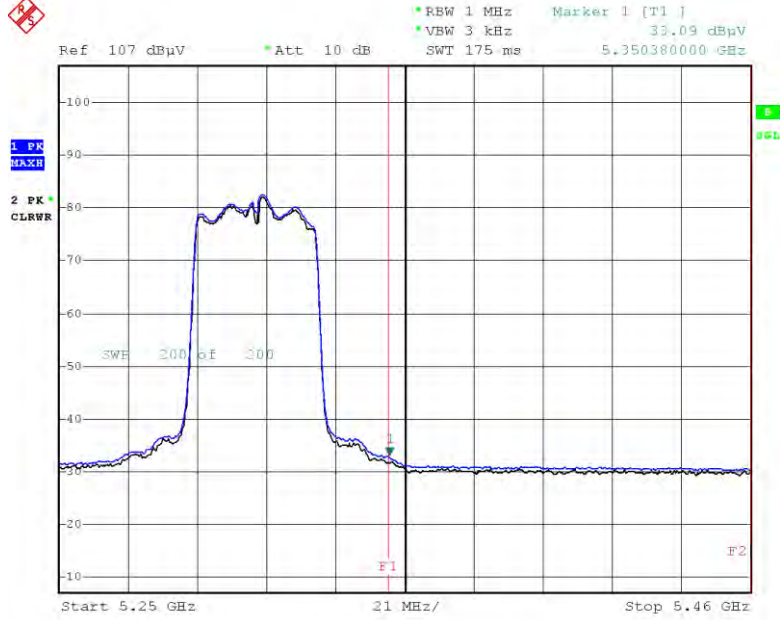
Band :	UNII 2C
Operation Mode:	802.11 ac_VHT80
Transfer MCS Index:	0
Operating Frequency	5530 MHz
Channel No.	106 Ch

Frequency [MHz]	Measured Value [dB μ V]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Measurement Type
5460	44.44	12.67	H	57.11	73.98	16.87	PK
5460	32.19	12.67	H	44.86	53.98	9.12	AV
5470	43.25	12.70	H	55.95	68.20	12.25	PK
5460	44.24	12.67	V	56.91	73.98	17.07	PK
5460	31.95	12.67	V	44.62	53.98	9.36	AV
5470	43.07	12.70	V	55.77	68.20	12.43	PK

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

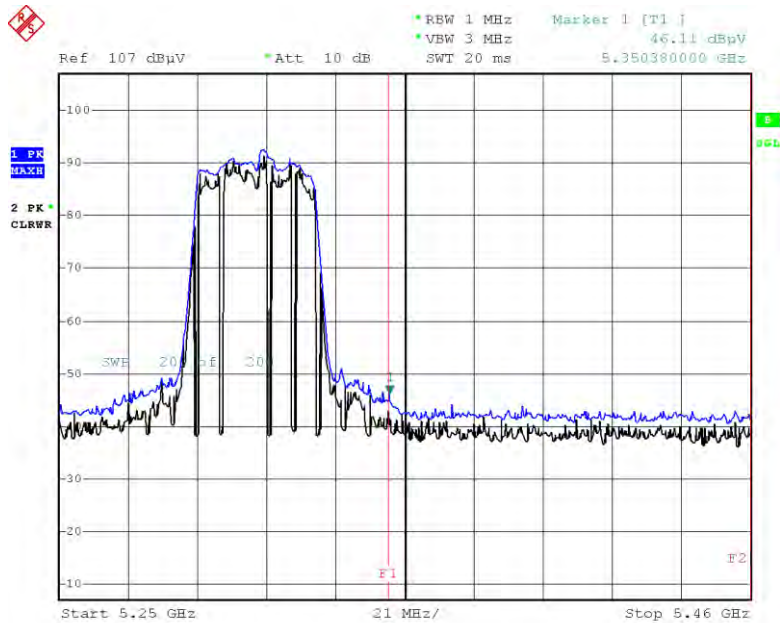
☑ Test Plots(UNII 1, 2A, 2C)

Average Result (802.11 n_HT40_ MCS0, Ch.62, X-H)



Date: 28.APR.2022 14:28:06

Peak Result (802.11 n_HT40_ MCS0, Ch.62, X-H)



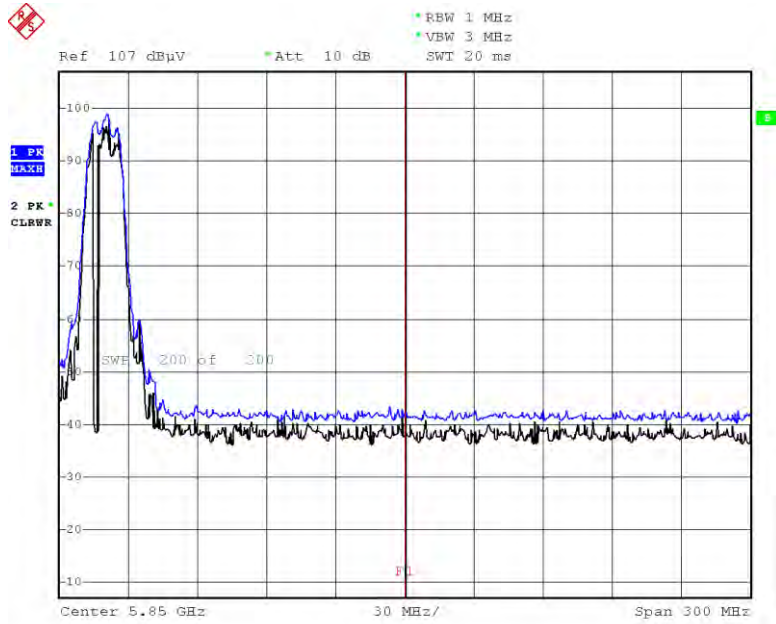
Date: 28.APR.2022 14:28:28

Note:

Only the worst case plots for Radiated Restricted Band Edge.

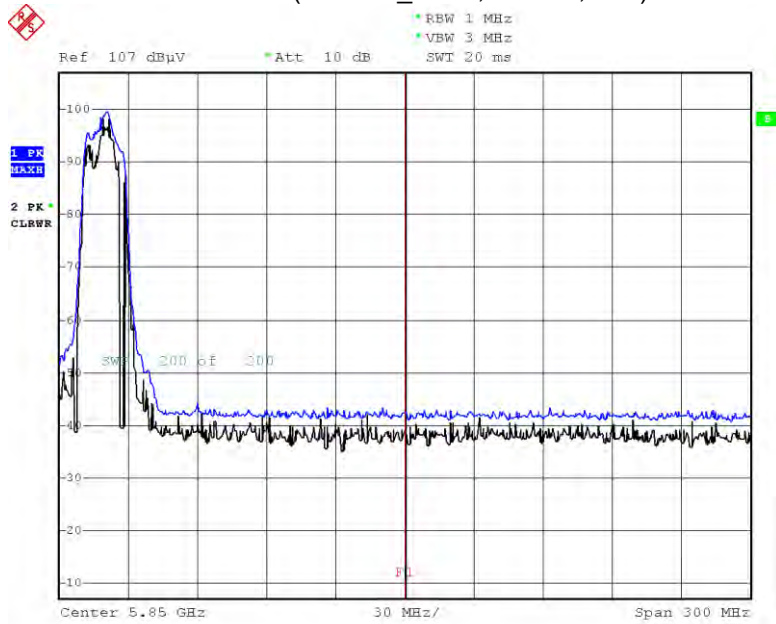
▣ Test Plots(Straddle Channel)

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



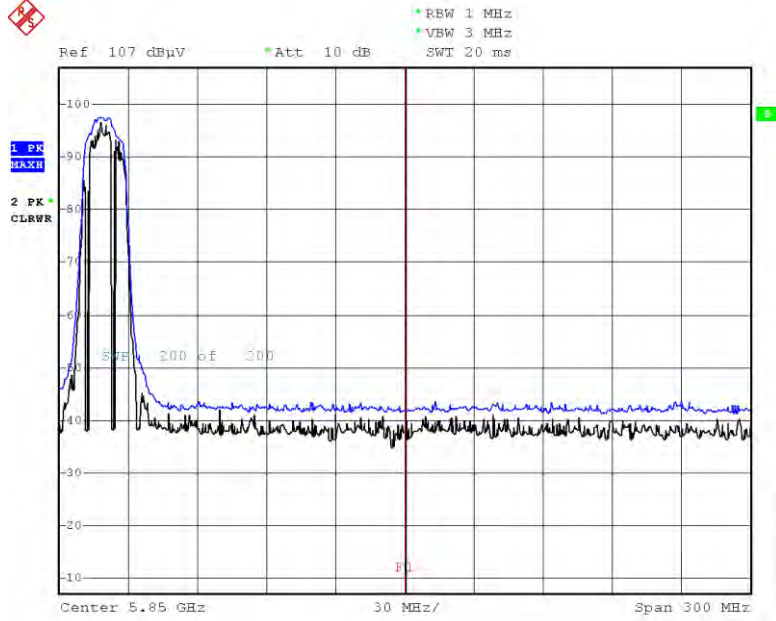
Date: 28, APR, 2022 11:49:59

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

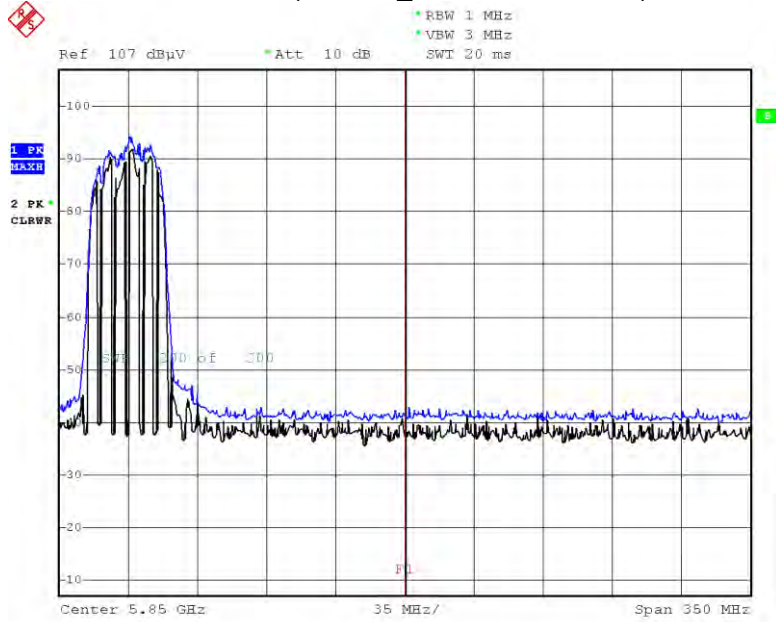


Date: 28, APR, 2022 11:53:05

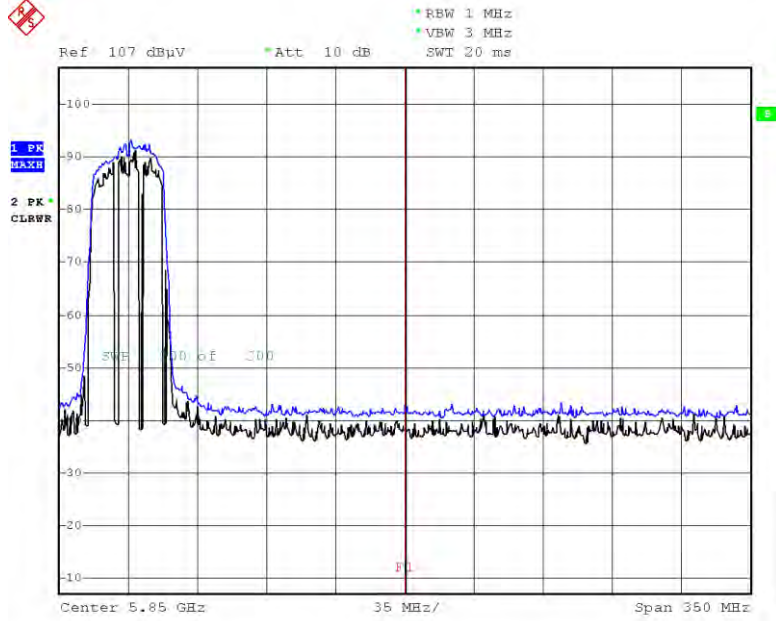
Peak Result (802.11ac_VHT20, Ch.144, X-H)



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

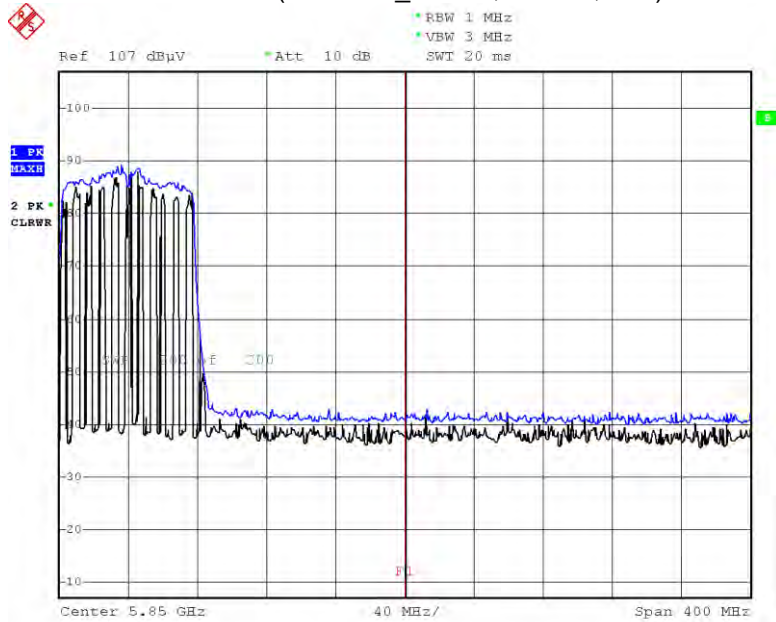


Peak Result (802.11ac_VHT40, Ch.142, X-H)



Date: 2.MAY.2022 10:44:50

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

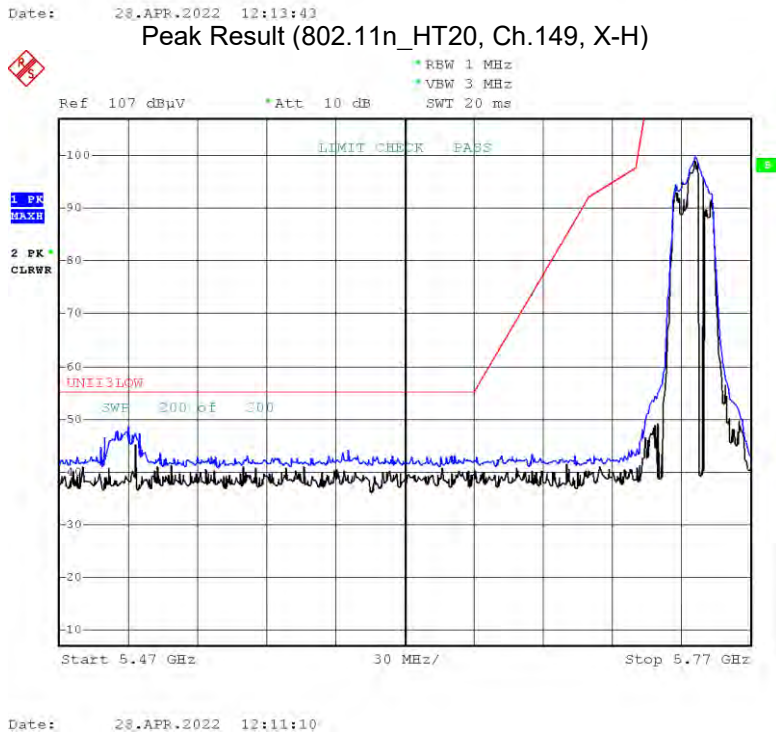
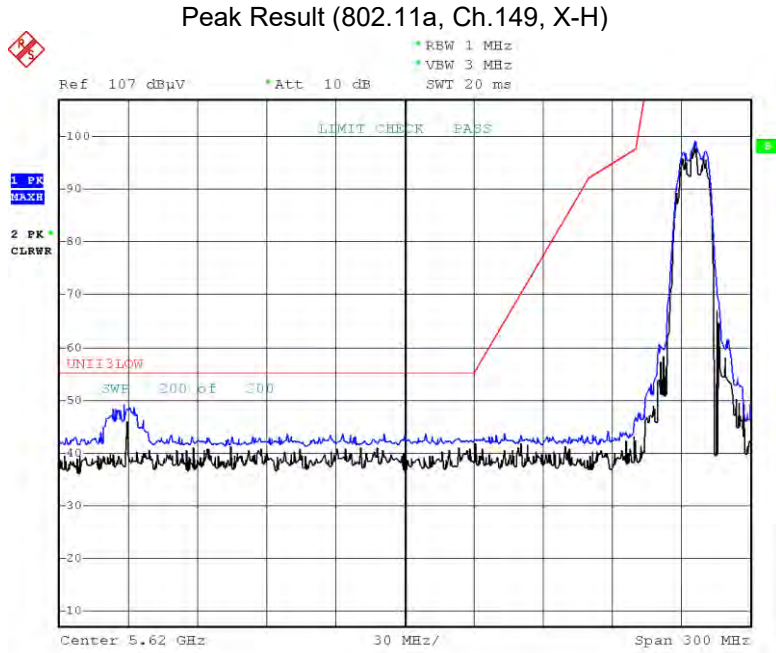


Date: 2.MAY.2022 10:53:52

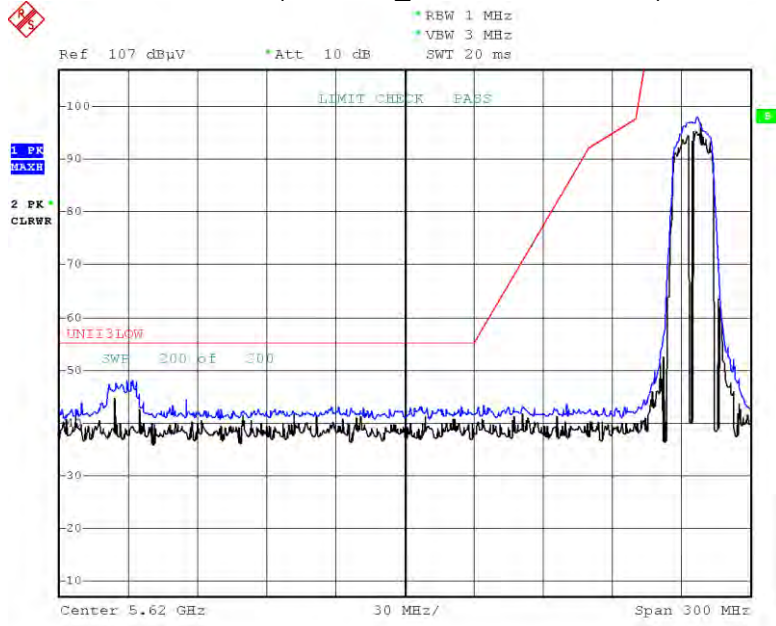
Note :

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)

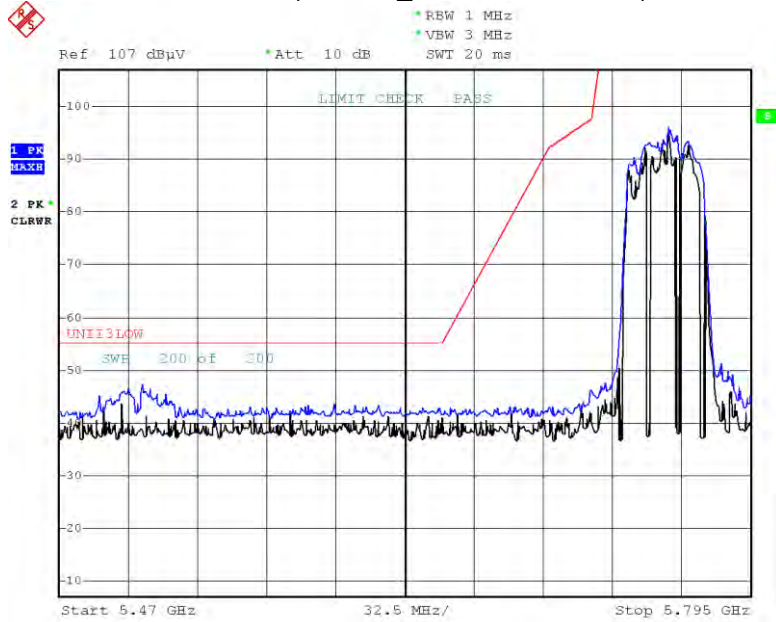


Peak Result (802.11ac_VHT20, Ch.149, X-H)



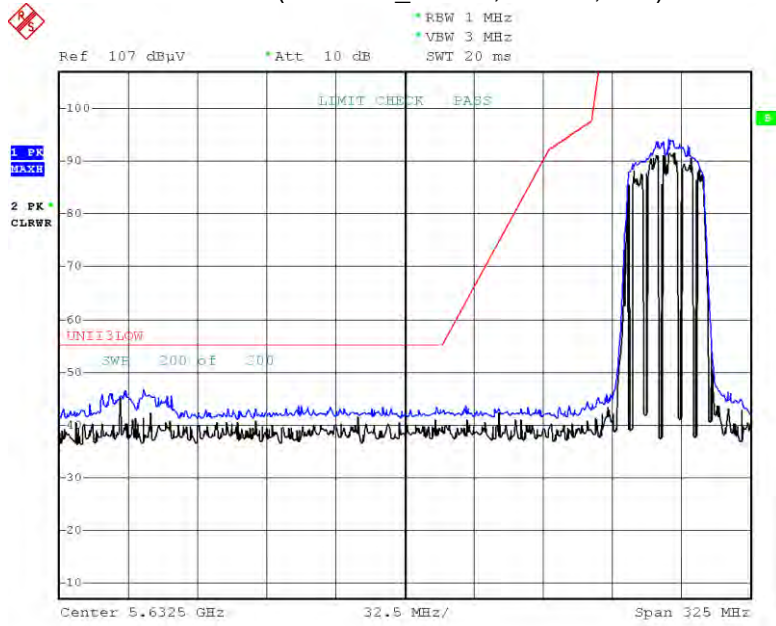
Date: 28.APR.2022 12:15:00

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



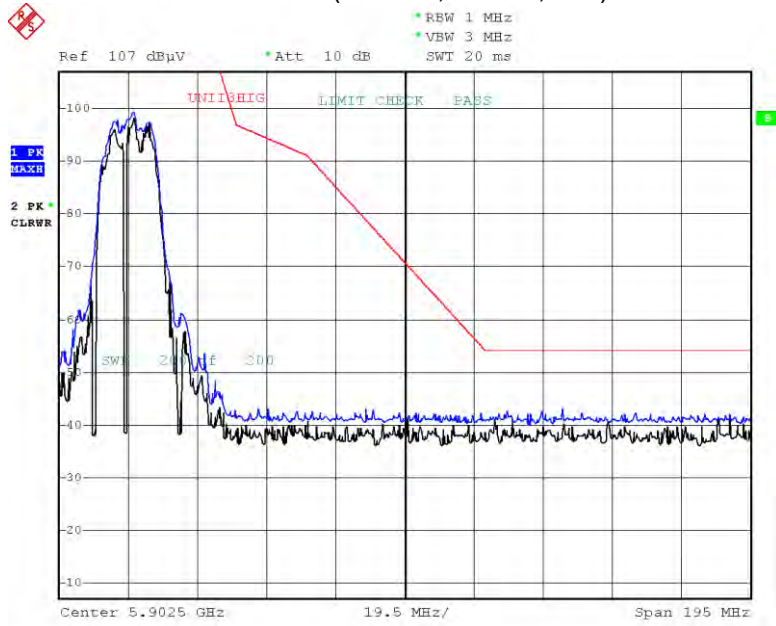
Date: 28.APR.2022 12:51:48

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



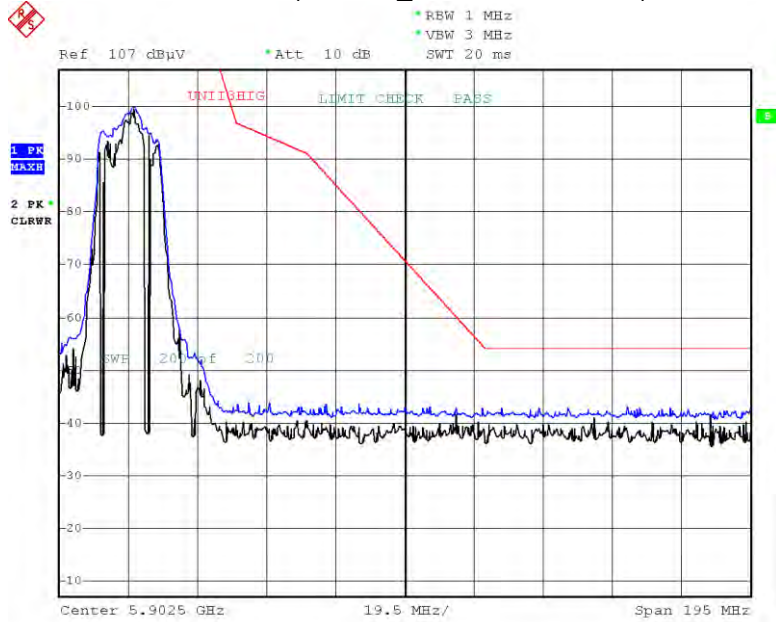
Date: 28.APR.2022 12:53:20

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



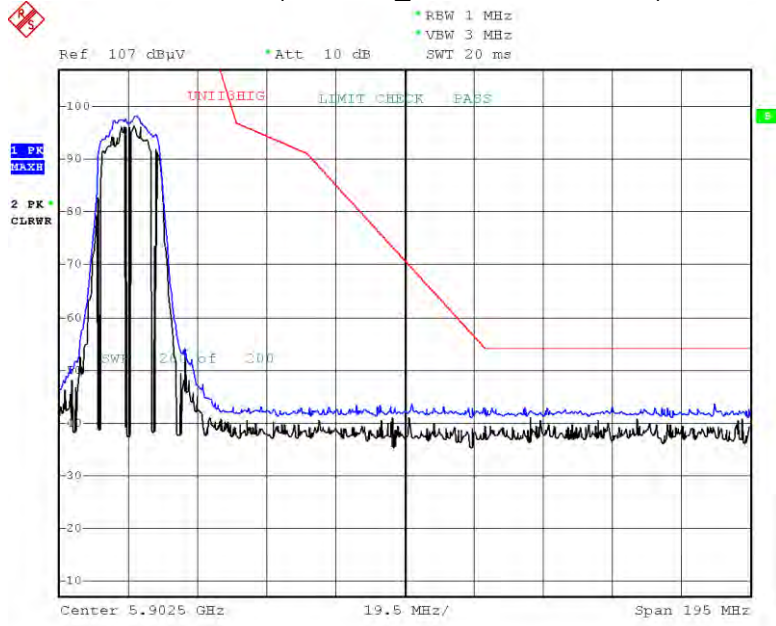
Date: 28.APR.2022 12:42:30

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



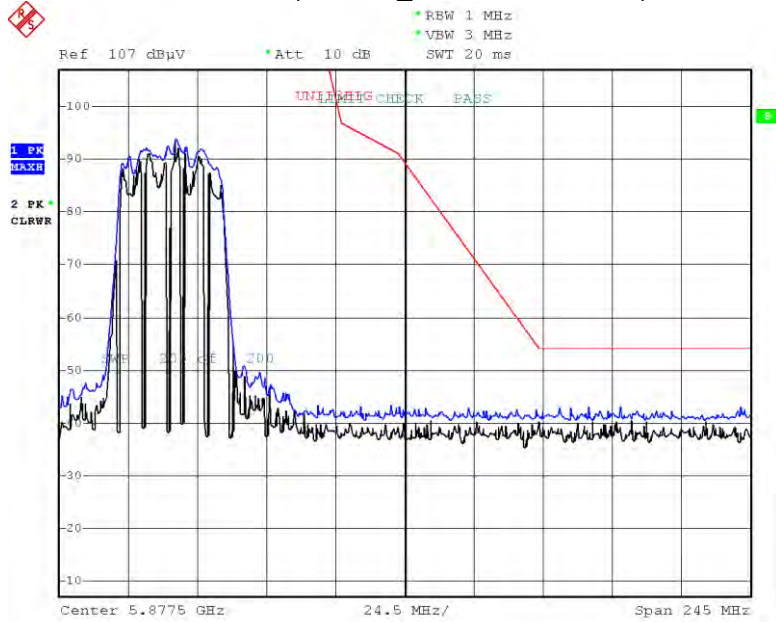
Date: 28.APR.2022 12:44:36

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



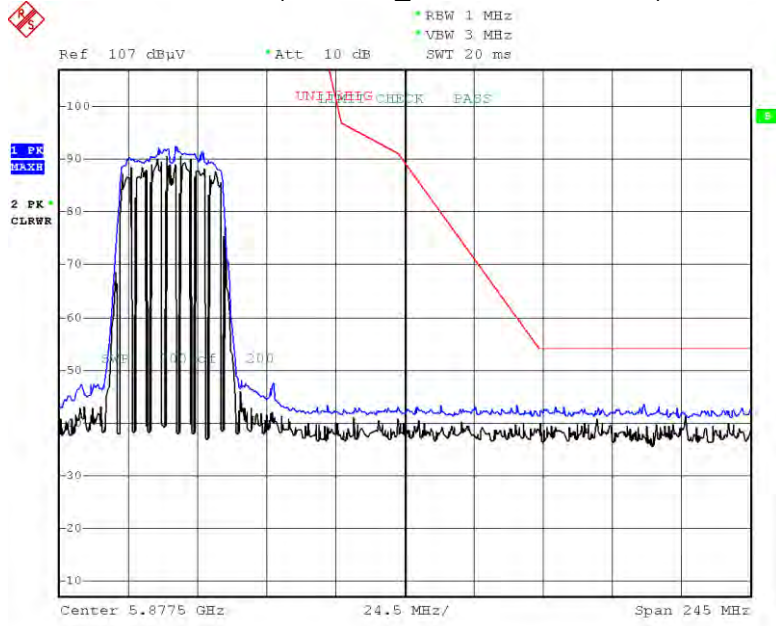
Date: 28.APR.2022 12:47:56

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



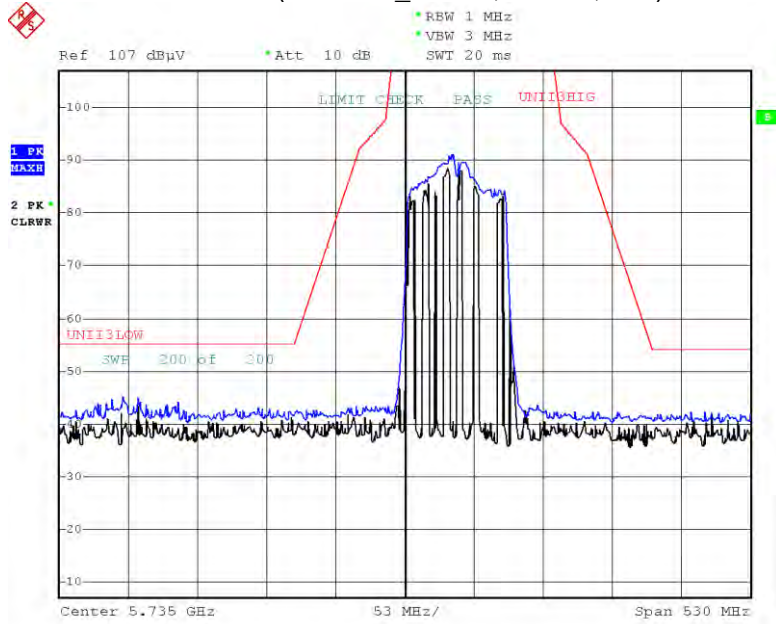
Date: 28.APR.2022 12:57:03

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



Date: 28.APR.2022 13:00:23

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



Date: 28.APR.2022 12:54:49

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)

Test

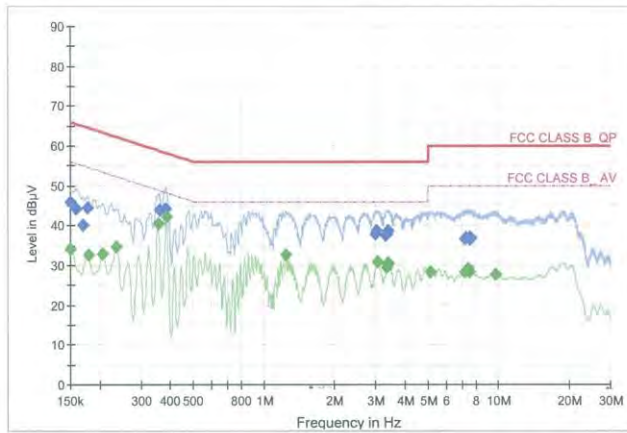
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Test Report

Common Information

EUT : SM-G990U2
 Manufacturer : SAMSUNG Electronics Co., Ltd.
 Test Site: SHIELD ROOM
 Operating Conditions : 5G WLAN_L1
 Operator Name:
 Comment:

Full Spectrum



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

Final Result QPK

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.1500	45.86	66.00	20.14	9.000	L1	OFF	9.6
0.1590	44.03	65.52	21.49	9.000	L1	OFF	9.6
0.1703	40.13	64.95	24.82	9.000	L1	OFF	9.6
0.1770	44.34	64.63	20.28	9.000	L1	OFF	9.6
0.3593	43.75	58.75	15.00	9.000	L1	OFF	9.6
0.3795	44.27	58.29	14.02	9.000	L1	OFF	9.6
2.9930	37.90	56.00	18.10	9.000	L1	OFF	9.8
3.0380	38.60	56.00	17.40	9.000	L1	OFF	9.8
3.3080	37.39	56.00	18.61	9.000	L1	OFF	9.8
3.3485	37.93	56.00	18.07	9.000	L1	OFF	9.8
3.3665	38.62	56.00	17.38	9.000	L1	OFF	9.8
3.3980	38.60	56.00	17.40	9.000	L1	OFF	9.8
7.2050	36.70	60.00	23.30	9.000	L1	OFF	9.9
7.2613	36.92	60.00	23.08	9.000	L1	OFF	9.9
7.5133	36.70	60.00	23.30	9.000	L1	OFF	10.0
7.5245	36.93	60.00	23.07	9.000	L1	OFF	10.0
7.5650	36.73	60.00	23.27	9.000	L1	OFF	10.0
7.5965	36.89	60.00	23.11	9.000	L1	OFF	10.0

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Test

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Final Result_CAV

Frequency (MHz)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.1500	34.08	56.00	21.92	9.000	L1	OFF	9.6
0.1793	32.66	54.52	21.86	9.000	L1	OFF	9.6
0.2063	32.95	53.36	20.40	9.000	L1	OFF	9.6
0.2355	34.57	52.25	17.69	9.000	L1	OFF	9.6
0.3548	40.50	48.85	8.35	9.000	L1	OFF	9.6
0.3840	42.13	48.19	6.07	9.000	L1	OFF	9.6
1.2448	32.47	46.00	13.53	9.000	L1	OFF	9.7
3.0425	30.94	46.00	15.06	9.000	L1	OFF	9.8
3.3373	29.32	46.00	16.68	9.000	L1	OFF	9.8
3.3665	30.22	46.00	15.78	9.000	L1	OFF	9.8
3.3958	30.66	46.00	15.34	9.000	L1	OFF	9.8
5.1193	28.22	50.00	21.78	9.000	L1	OFF	9.9
7.2185	28.14	50.00	21.86	9.000	L1	OFF	9.9
7.3940	28.89	50.00	21.11	9.000	L1	OFF	9.9
7.4413	29.02	50.00	20.98	9.000	L1	OFF	9.9
7.5268	28.25	50.00	21.75	9.000	L1	OFF	10.0
7.5560	28.34	50.00	21.66	9.000	L1	OFF	10.0
9.7453	27.66	50.00	22.34	9.000	L1	OFF	10.0

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Conducted Emissions (Line 2)

Test

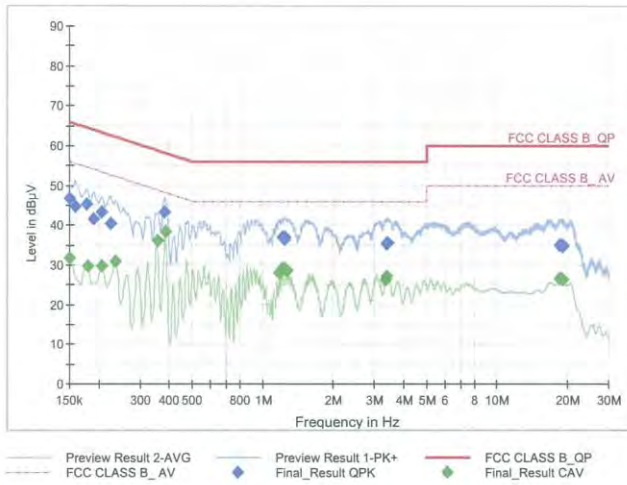
1 / 2

Test Report

Common Information

EUT : SM-G990U2
 Manufacturer : SAMSUNG Electronics Co., Ltd.
 Test Site: SHIELD ROOM
 Operating Conditions : 5G WLAN_N
 Operator Name:
 Comment:

Full Spectrum



Final Result QPK

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.1500	46.82	66.00	19.18	9.000	N	OFF	9.6
0.1590	44.85	65.52	20.67	9.000	N	OFF	9.6
0.1770	45.36	64.63	19.27	9.000	N	OFF	9.6
0.1905	41.63	64.02	22.39	9.000	N	OFF	9.6
0.2063	43.16	63.36	20.19	9.000	N	OFF	9.6
0.2243	40.30	62.66	22.36	9.000	N	OFF	9.6
0.3818	43.37	58.24	14.87	9.000	N	OFF	9.6
1.2133	37.01	56.00	18.99	9.000	N	OFF	9.7
1.2380	36.38	56.00	19.62	9.000	N	OFF	9.7
1.2448	36.90	56.00	19.10	9.000	N	OFF	9.7
3.3868	35.27	56.00	20.73	9.000	N	OFF	9.8
3.3913	35.34	56.00	20.66	9.000	N	OFF	9.8
3.4183	35.39	56.00	20.61	9.000	N	OFF	9.8
18.5968	35.04	60.00	24.96	9.000	N	OFF	10.4
18.6373	34.77	60.00	25.23	9.000	N	OFF	10.4
19.0603	34.77	60.00	25.23	9.000	N	OFF	10.4
19.0783	34.73	60.00	25.27	9.000	N	OFF	10.4
19.0918	34.76	60.00	25.24	9.000	N	OFF	10.4

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Test

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Final Result CAV

Frequency (MHz)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.1500	31.74	56.00	24.26	9.000	N	OFF	9.6
0.1793	29.81	54.52	24.71	9.000	N	OFF	9.6
0.2063	29.84	53.36	23.52	9.000	N	OFF	9.6
0.2355	30.87	52.25	21.38	9.000	N	OFF	9.6
0.3548	35.91	48.85	12.94	9.000	N	OFF	9.6
0.3840	38.39	48.19	9.80	9.000	N	OFF	9.6
1.1818	27.98	46.00	18.02	9.000	N	OFF	9.7
1.2133	29.06	46.00	16.94	9.000	N	OFF	9.7
1.2425	29.24	46.00	16.76	9.000	N	OFF	9.7
1.2718	28.64	46.00	17.36	9.000	N	OFF	9.7
3.3620	26.39	46.00	19.61	9.000	N	OFF	9.8
3.3913	27.01	46.00	18.99	9.000	N	OFF	9.8
18.5968	26.40	50.00	23.60	9.000	N	OFF	10.4
18.7498	26.51	50.00	23.49	9.000	N	OFF	10.4
18.8060	26.51	50.00	23.49	9.000	N	OFF	10.4
18.8915	26.48	50.00	23.52	9.000	N	OFF	10.4
18.9230	26.53	50.00	23.47	9.000	N	OFF	10.4
19.0783	26.20	50.00	23.81	9.000	N	OFF	10.4

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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	Keysight	MY55410508	09/07/2022	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	E3646A	Agilent	MY40002937	12/14/2022	Annual
Attenuator(10 dB)(DC-26.5 GHz)	5910-N-50-010	H+S	00801	10/29/2022	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
Bluetooth Tester	CBT	Rohde & Schwarz	100808	02/22/2023	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.

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	EM2090	Emco	060520	N/A	N/A
Turn Table	N/A	Ets	N/A	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-1191	11/18/2023	Biennial
Horn Antenna(15 GHz ~ 40 GHz)	BBHA9170	Schwarzbeck	BBHA9170124	04/12/2023	Biennial
Amp & Filter Bank Switch Controller	FBSM-01A	TNM system	0	N/A	N/A
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
Band Reject Filter	WRCJV5100/5850-40/50-8EEK	Wainwright Instruments	1	02/07/2023	Annual
ATT(3 dB) + LNA2(6~18 GHz)	18B-03, CBL06185030	WEINSCHEL CERNEK	N/A	12/22/2022	Annual
ATT(10 dB) + LNA1(0.1~18 GHz)	56-10, CBLU1183540B-01	Api tech, CERNEK	N/A	12/22/2022	Annual
High Pass Filter	WHKX10-2700-3000-18000-40SS	Wainwright Instruments	N/A	12/22/2022	Annual
High Pass Filter	WHKX8-6090-7000-18000-40SS	Wainwright Instruments	N/A	12/22/2022	Annual
Thru	COAXIAL ATTENUATOR	T&M SYSTEM	N/A	12/22/2022	Annual
Power Amplifier	CBL18265035	CERNEK	22966	12/02/2022	Annual
Power Amplifier	CBL26405040	CERNEK	25956	03/11/2023	Annual
Bluetooth Tester	TC-3000C	TESCOM	3000C000175	04/05/2023	Annual
Spectrum Analyzer	FSP(9 kHz ~ 30 GHz)	Rohde & Schwarz	836650/016	09/13/2022	Annual
Spectrum Analyzer	FSV40-N(9 kHz ~ 30 GHz)	Rohde & Schwarz	101068-SZ	09/15/2022	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-FC015-P