

10.7.3 Output Power

[ANT1]

Mode	Frequency [MHz]	Channel	Measured Power (dBm)	Duty Cycle Factor (dB)	Total Power (dBm)	Limit (dBm)
802.11a	5720 (UNII 2C Band)	144	13.73	0.318	14.05	22.70
802.11n(HT20)			13.45	0.420	13.87	22.82
802.11ac(VHT20)			13.41	0.416	13.83	22.77
802.11a	5720 (UNII 3 Band)	144	5.23	0.318	5.55	30.00
802.11n(HT20)			5.46	0.420	5.88	30.00
802.11ac(VHT20)			5.47	0.416	5.89	30.00

Mode	Frequency [MHz]	Channel	Measured Power (dBm)	Duty Cycle Factor (dB)	Total Power (dBm)	Limit (dBm)
802.11n(HT40)	5710 (UNII 2C Band)	142	12.49	0.732	13.22	23.98
802.11ac(VHT40)			12.45	0.717	13.17	23.98
802.11n(HT40)	5710 (UNII 3 Band)	142	-0.46	0.732	0.27	30.00
802.11ac(VHT40)			-0.49	0.717	0.23	30.00

Mode	Frequency [MHz]	Channel	Measured Power (dBm)	Duty Cycle Factor (dB)	Total Power (dBm)	Limit (dBm)
802.11ac(VHT80)	5690 (UNII 2C Band)	138	11.73	1.172	12.90	23.98
	5690 (UNII 3 Band)	138	-4.53	1.172	-3.36	30.00

[ANT2]

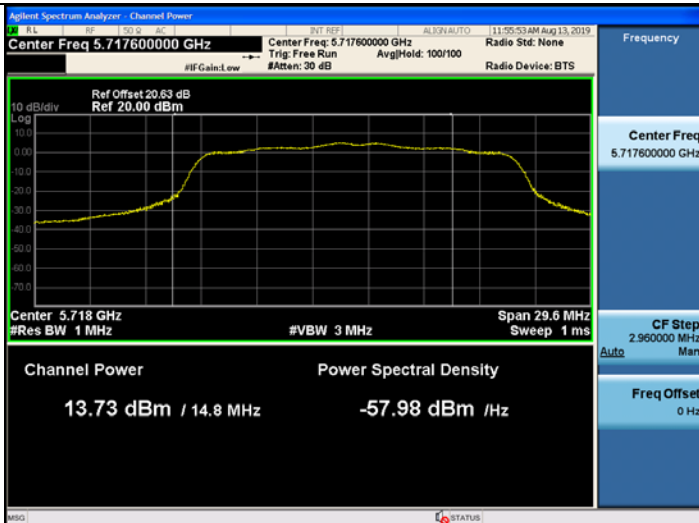
Mode	Frequency [MHz]	Channel	Measured Power (dBm)	Duty Cycle Factor (dB)	Total Power (dBm)	Limit (dBm)
802.11a	5720 (UNII 2C Band)	144	13.48	0.318	13.80	22.80
802.11n(HT20)			13.33	0.328	13.66	22.75
802.11ac(VHT20)			13.42	0.325	13.75	22.83
802.11a	5720 (UNII 3 Band)	144	5.12	0.318	5.44	30.00
802.11n(HT20)			5.57	0.328	5.90	30.00
802.11ac(VHT20)			5.69	0.325	6.02	30.00

Mode	Frequency [MHz]	Channel	Measured Power (dBm)	Duty Cycle Factor (dB)	Total Power (dBm)	Limit (dBm)
802.11n(HT40)	5710 (UNII 2C Band)	142	12.75	0.732	13.48	23.98
802.11ac(VHT40)			12.76	0.717	13.48	23.98
802.11n(HT40)	5710 (UNII 3 Band)	142	-0.04	0.732	0.69	30.00
802.11ac(VHT40)			-0.03	0.717	0.69	30.00

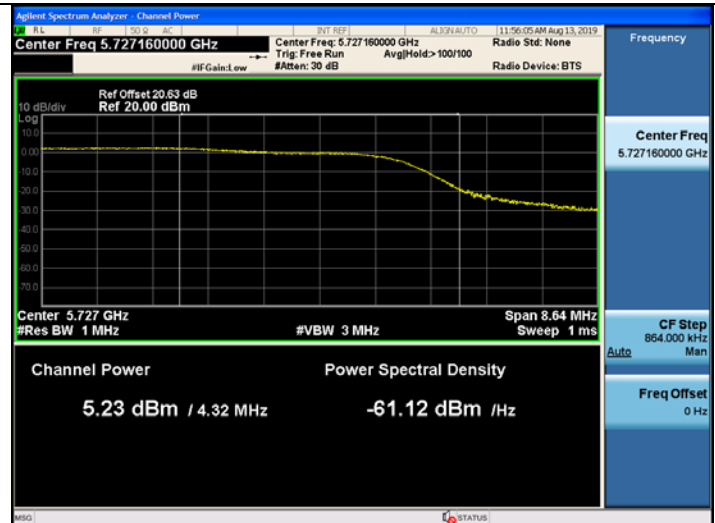
Mode	Frequency [MHz]	Channel	Measured Power (dBm)	Duty Cycle Factor (dB)	Total Power (dBm)	Limit (dBm)
802.11ac(VHT80)	5690 (UNII 2C Band)	138	12.33	0.991	13.32	23.98
	5690 (UNII 3 Band)	138	-4.12	0.991	-3.13	30.00

Test Plots_[ANT1]

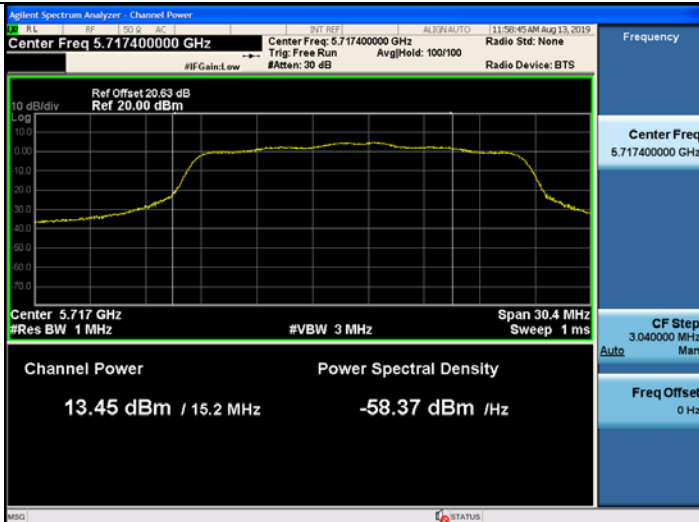
802.11a UNII 2C Band



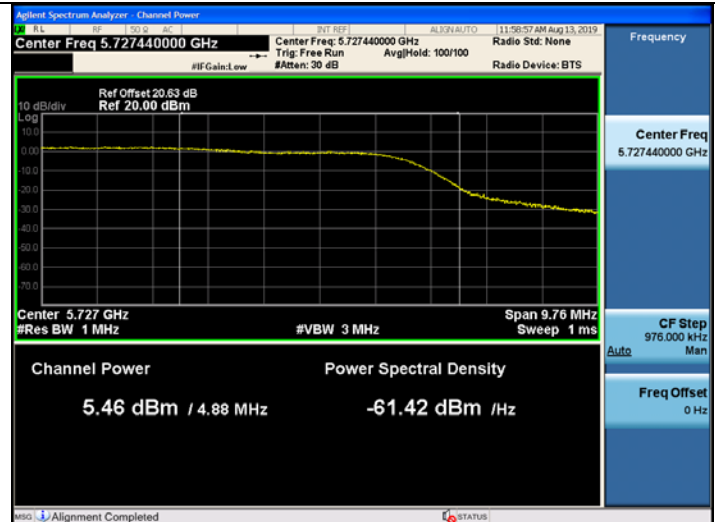
802.11a UNII 3 Band



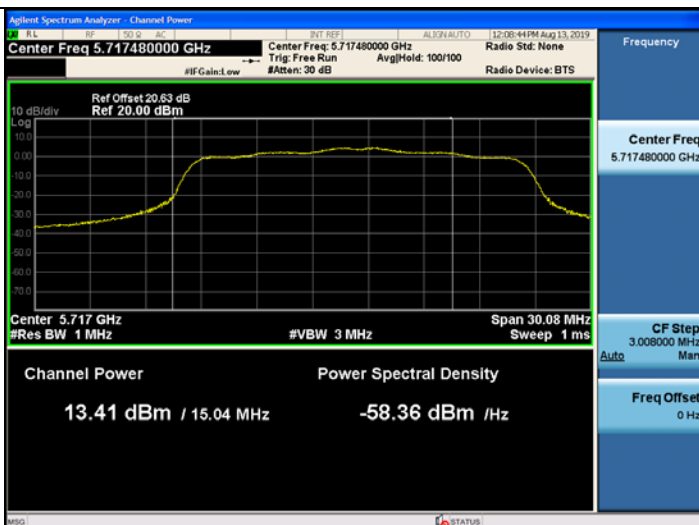
802.11n(HT20) UNII 2C Band



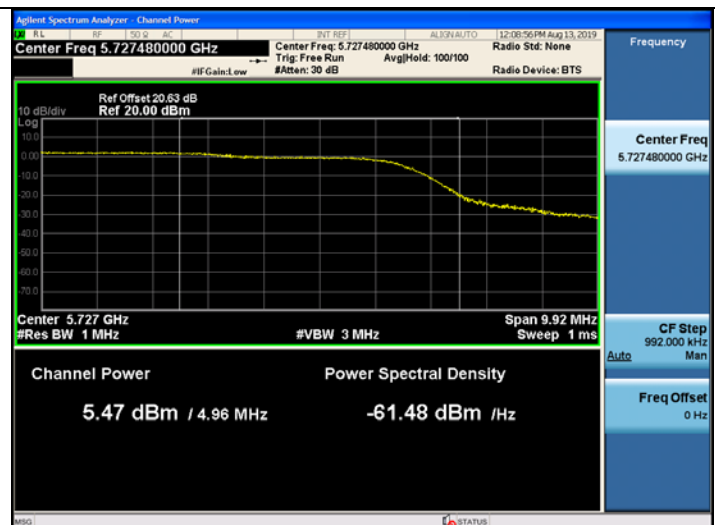
802.11n(HT20) UNII 3 Band



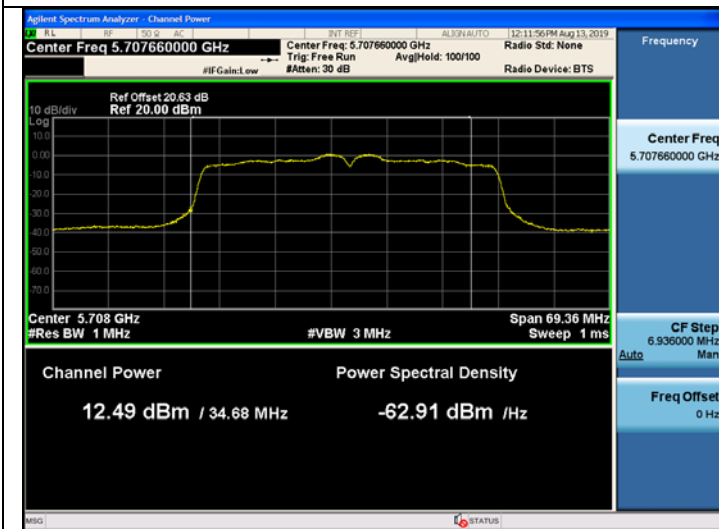
802.11ac(VHT20) UNII 2C Band



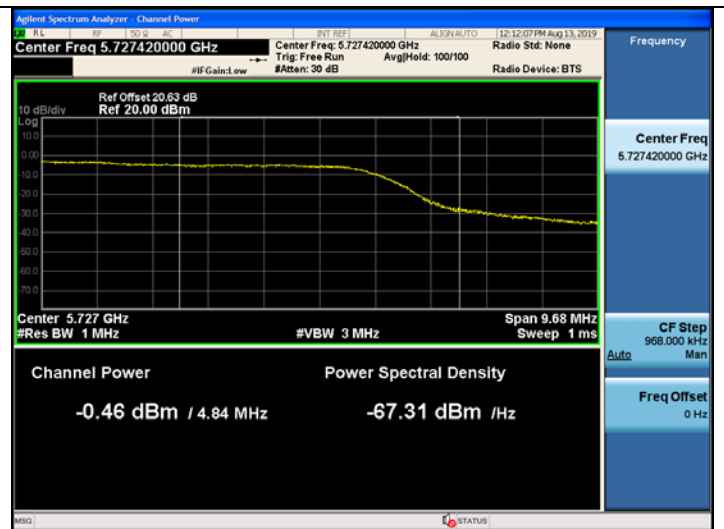
802.11ac(VHT20) UNII 3 Band



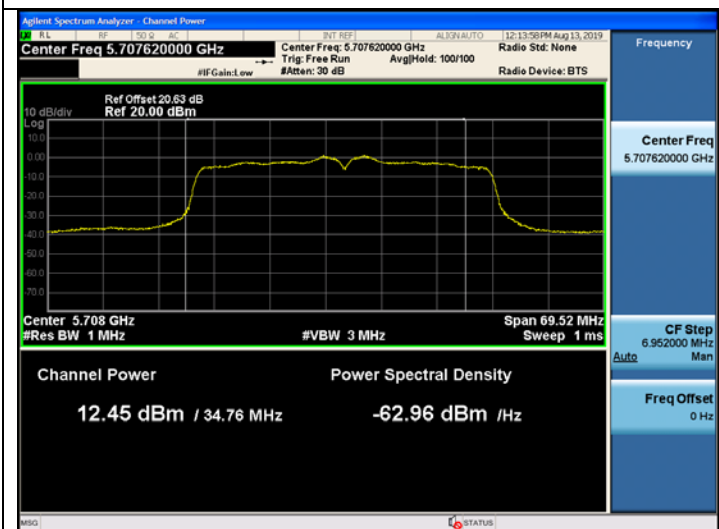
802.11n(HT40) UNII 2C Band



802.11n(HT40) UNII 3 Band



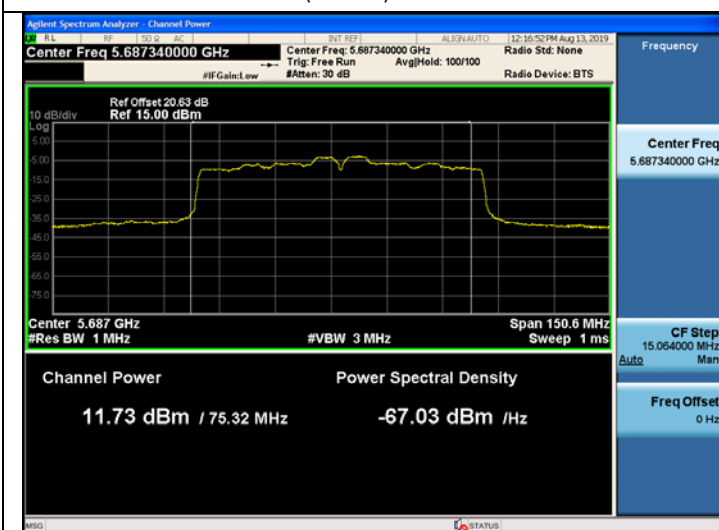
802.11ac(VHT40) UNII 2C Band



802.11ac(VHT40) UNII 3 Band



802.11ac(VHT80) UNII 2C Band

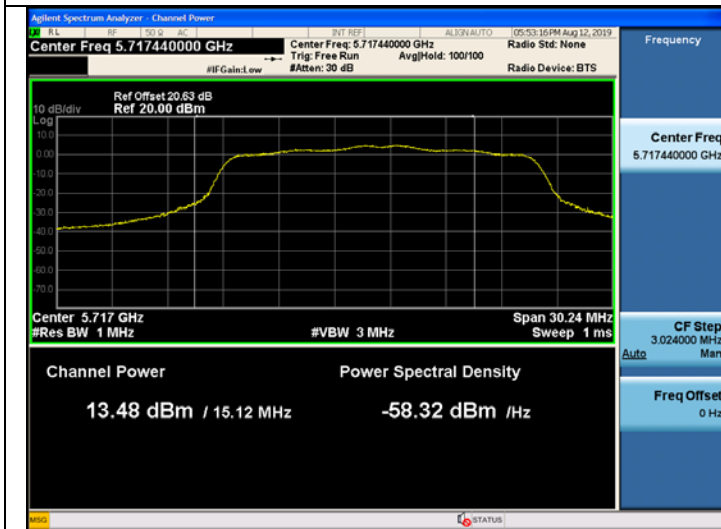


802.11ac(VHT80) UNII 3 Band

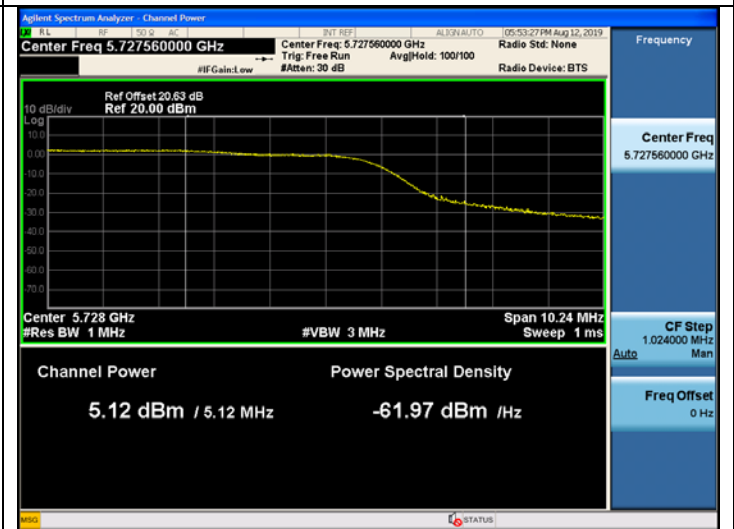


Test Plots [ANT2]

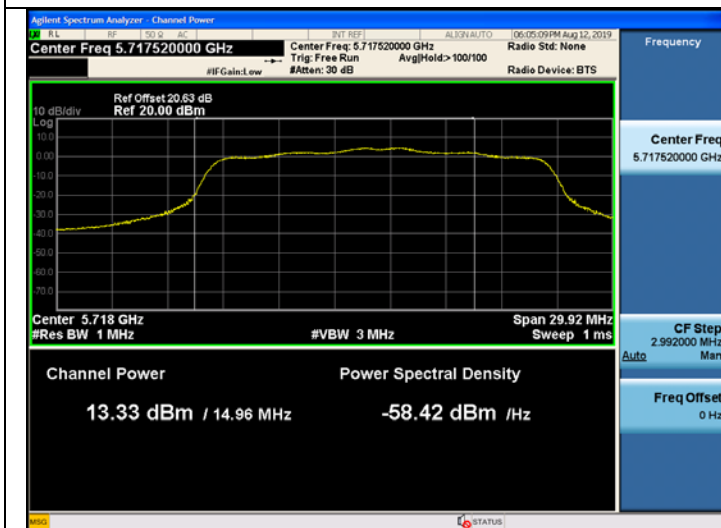
802.11a UNII 2C Band



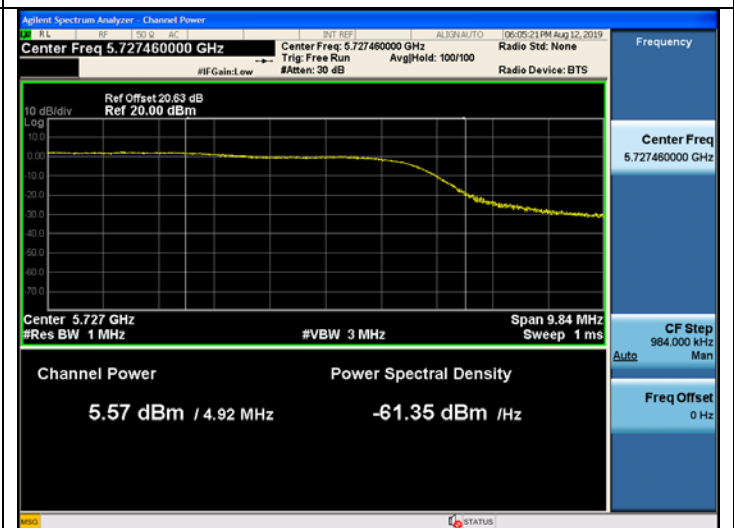
802.11a UNII 3 Band



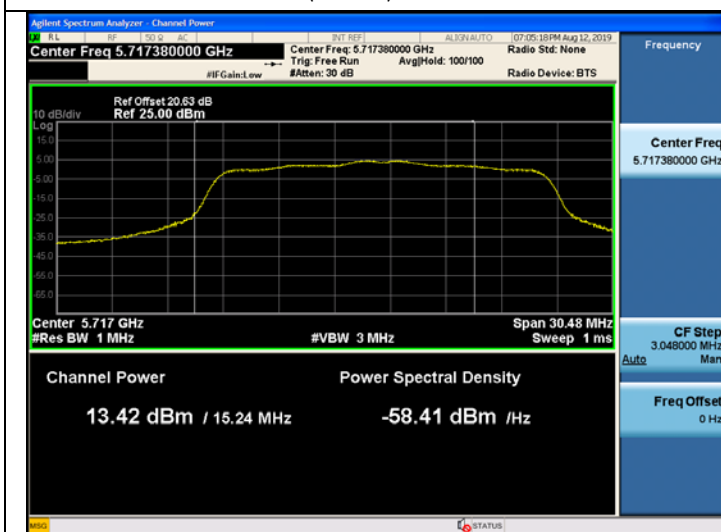
802.11n(HT20) UNII 2C Band



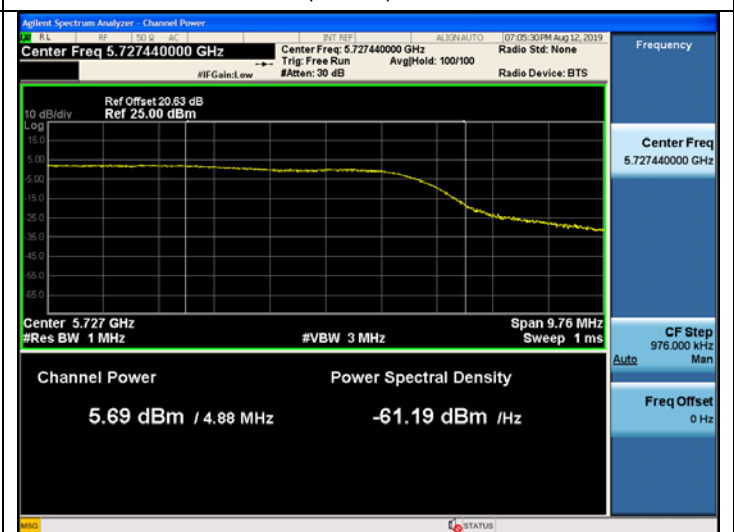
802.11n(HT20) UNII 3 Band



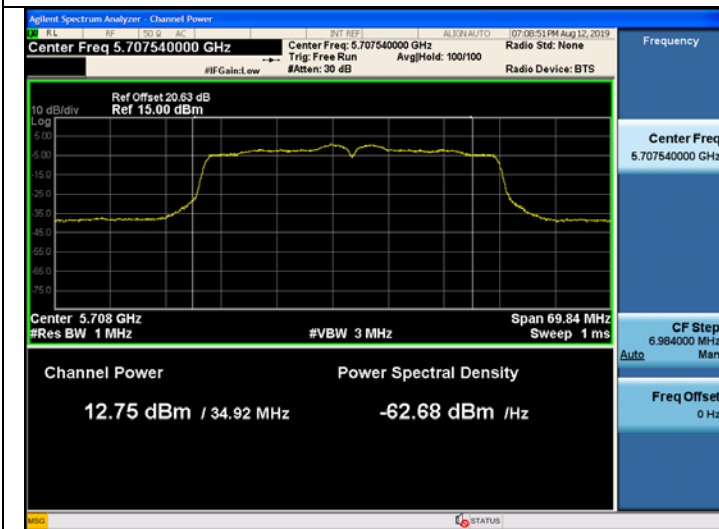
802.11ac(VHT20) UNII 2C Band



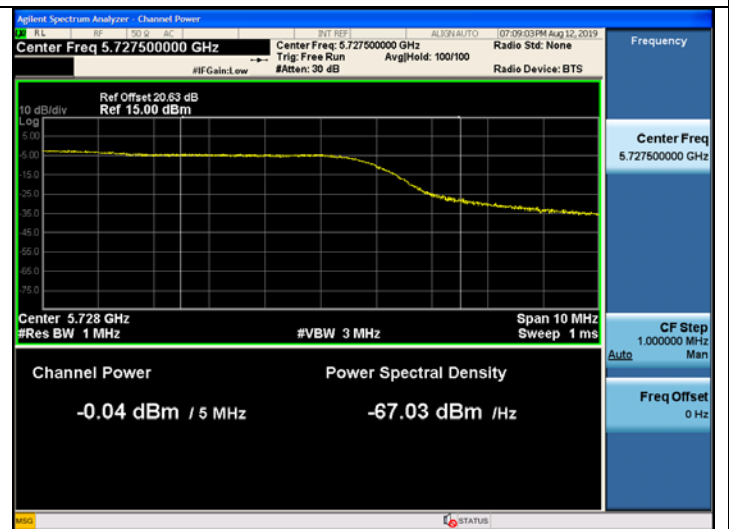
802.11ac(VHT20) UNII 3 Band



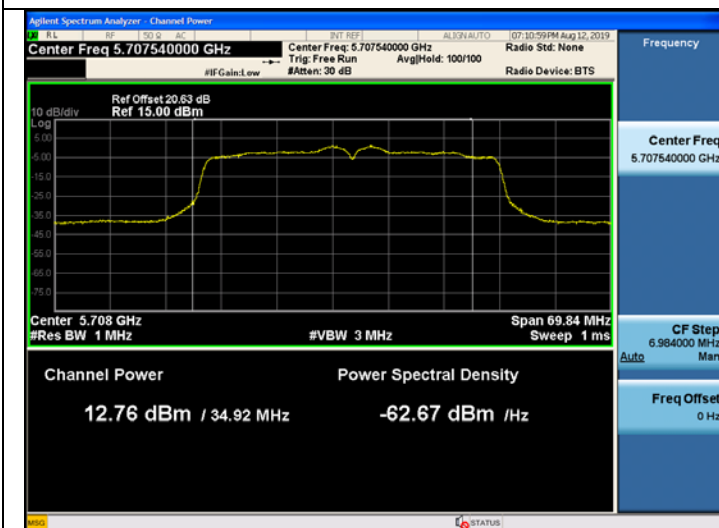
802.11n(HT40) UNII 2C Band



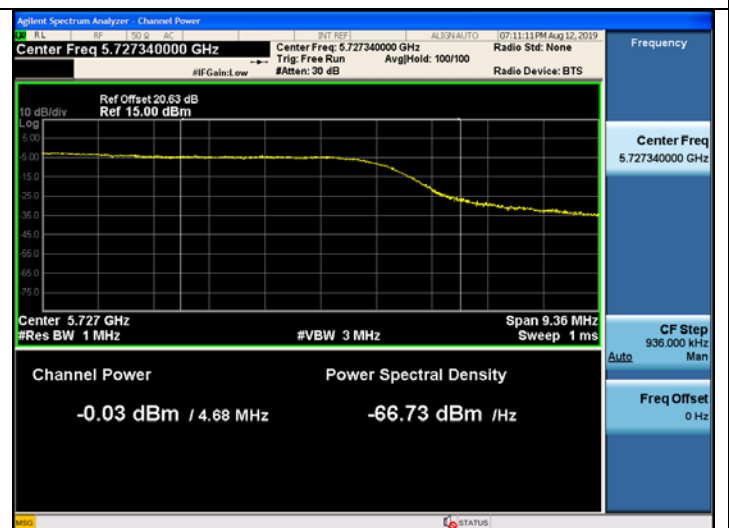
802.11n(HT40) UNII 3 Band



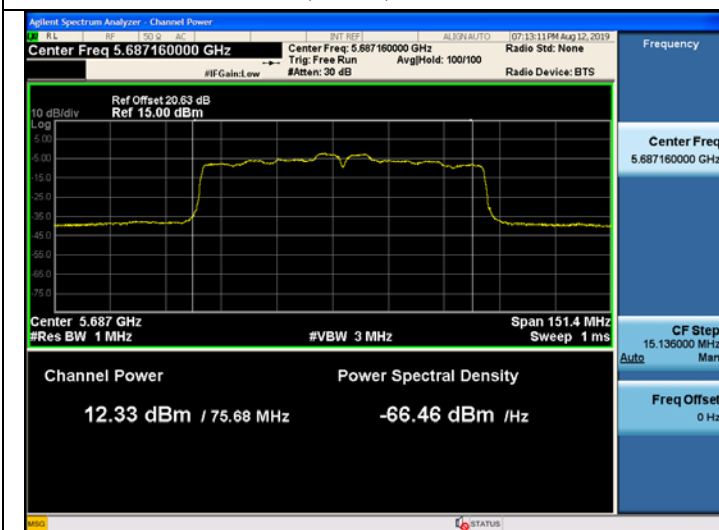
802.11ac(VHT40) UNII 2C Band



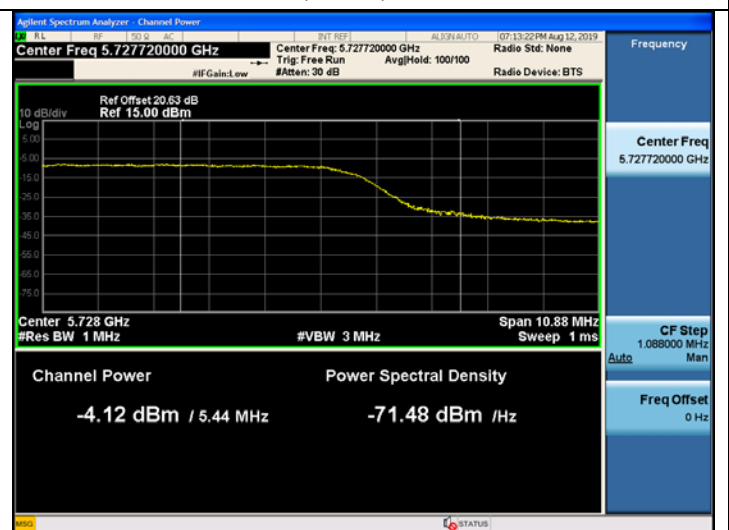
802.11ac(VHT40) UNII 3 Band



802.11ac(VHT80) UNII 2C Band



802.11ac(VHT80) UNII 3 Band



10.7.4 Power Spectral Density

[ANT1]

Mode	Frequency [MHz]	Channel	Measured Density (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)	Limit (dBm)
802.11a	5720 (UNII 2C Band)	144	5.496	0.318	5.814	11.00
802.11n(HT20)			4.958	0.420	5.378	11.00
802.11ac(VHT20)			4.863	0.416	5.279	11.00
802.11a	5720 (UNII 3 Band)	144	-1.050	0.318	-0.732	30.00
802.11n(HT20)			-0.893	0.420	-0.473	30.00
802.11ac(VHT20)			-0.914	0.416	-0.498	30.00

Mode	Frequency [MHz]	Channel	Measured Density (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)	Limit (dBm)
802.11n(HT40)	5710 (UNII 2C Band)	142	0.845	0.732	1.577	11.00
802.11ac(VHT40)			0.723	0.717	1.440	11.00
802.11n(HT40)	5710 (UNII 3 Band)	142	-7.561	0.732	-6.829	30.00
802.11ac(VHT40)			-7.589	0.717	-6.872	30.00

Mode	Frequency [MHz]	Channel	Measured Density (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)	Limit (dBm)
802.11ac(VHT80)	5690 (UNII 2C Band)	138	-2.571	1.172	-1.399	11.00
	5690 (UNII 3 Band)	138	-11.069	1.172	-9.897	30.00

[ANT2]

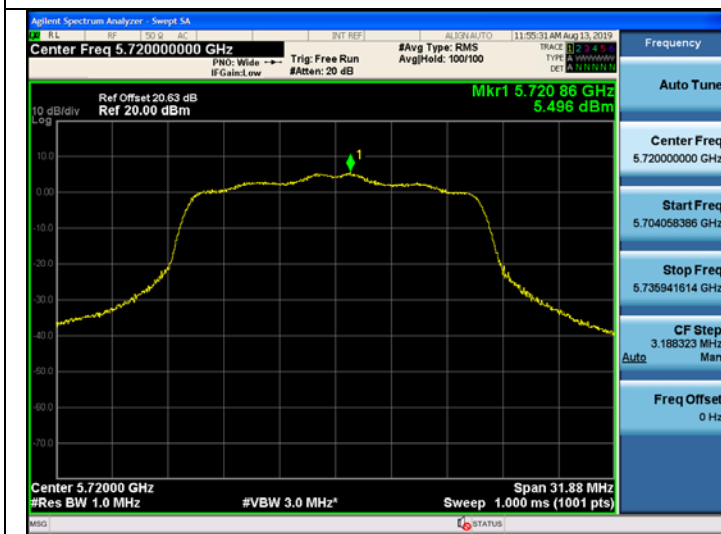
Mode	Frequency [MHz]	Channel	Measured Density (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)	Limit (dBm)
802.11a	5720 (UNII 2C Band)	144	5.007	0.318	5.325	11.00
802.11n(HT20)			4.774	0.328	5.102	11.00
802.11ac(VHT20)			5.166	0.325	5.491	11.00
802.11a	5720 (UNII 3 Band)	144	-0.918	0.318	-0.600	30.00
802.11n(HT20)			-0.944	0.328	-0.616	30.00
802.11ac(VHT20)			-0.554	0.325	-0.229	30.00

Mode	Frequency [MHz]	Channel	Measured Density (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)	Limit (dBm)
802.11n(HT40)	5710 (UNII 2C Band)	142	1.003	0.732	1.735	11.00
802.11ac(VHT40)			1.063	0.717	1.780	11.00
802.11n(HT40)	5710 (UNII 3 Band)	142	-6.788	0.732	-6.056	30.00
802.11ac(VHT40)			-6.953	0.717	-6.236	30.00

Mode	Frequency [MHz]	Channel	Measured Density (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)	Limit (dBm)
802.11ac(VHT80)	5690 (UNII 2C Band)	138	-2.034	0.991	-1.043	11.00
	5690 (UNII 3 Band)	138	-10.740	0.991	-9.749	30.00

Test Plots_[ANT1]

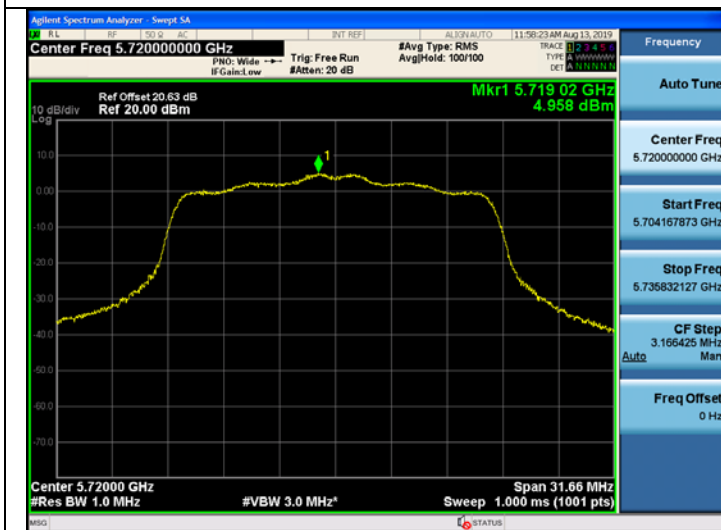
802.11a UNII 2C Band



802.11a UNII 3 Band



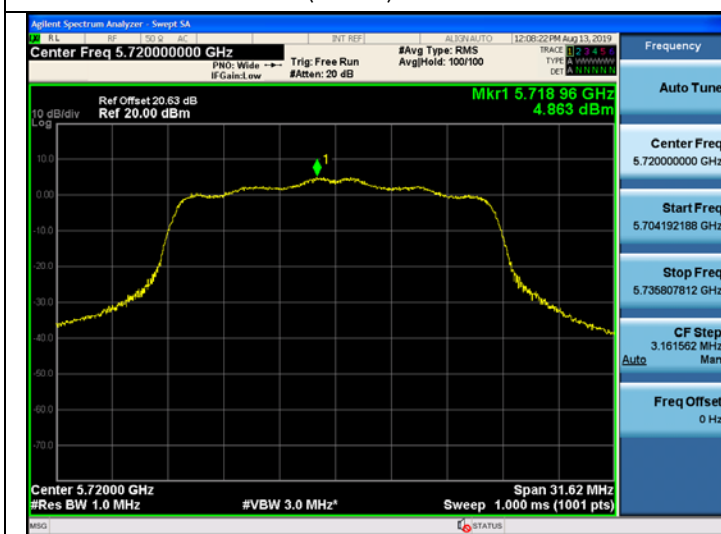
802.11n(HT20) UNII 2C Band



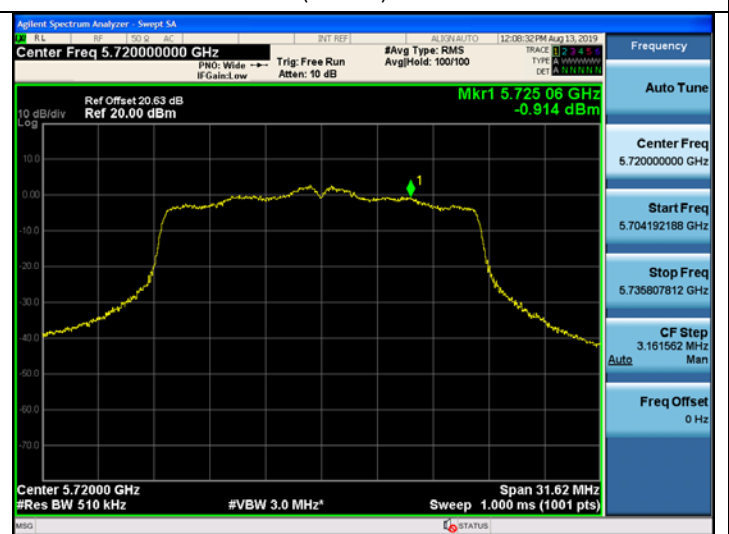
802.11n(HT20) UNII 3 Band



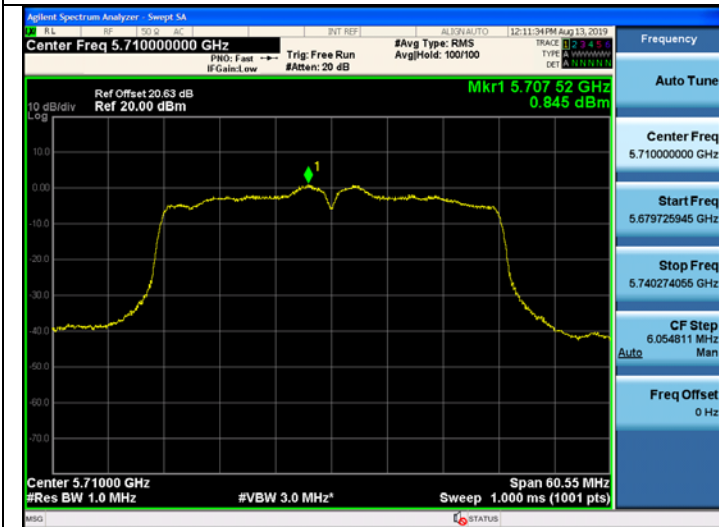
802.11ac(VHT20) UNII 2C Band



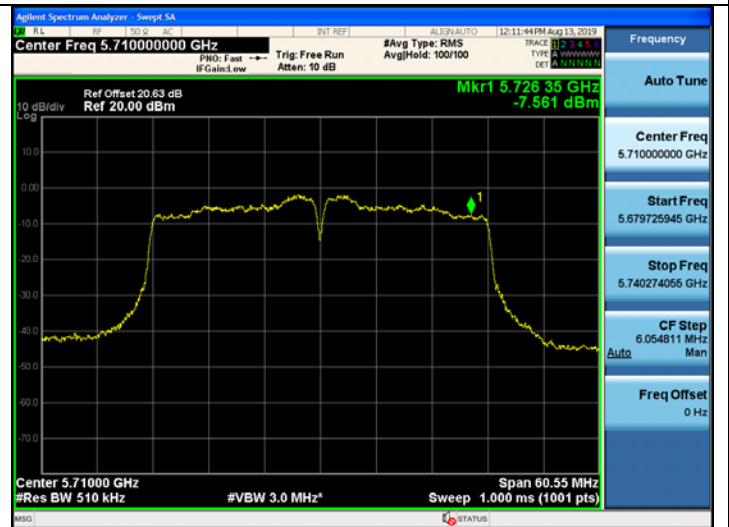
802.11ac(VHT20) UNII 3 Band



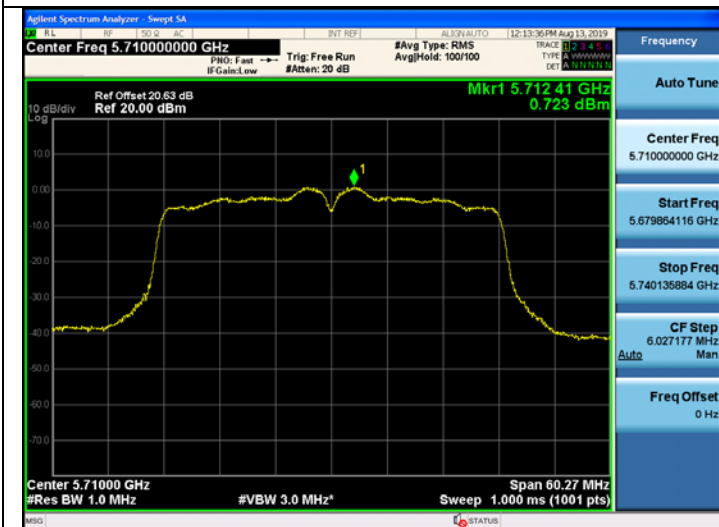
802.11n(HT40) UNII 2C Band



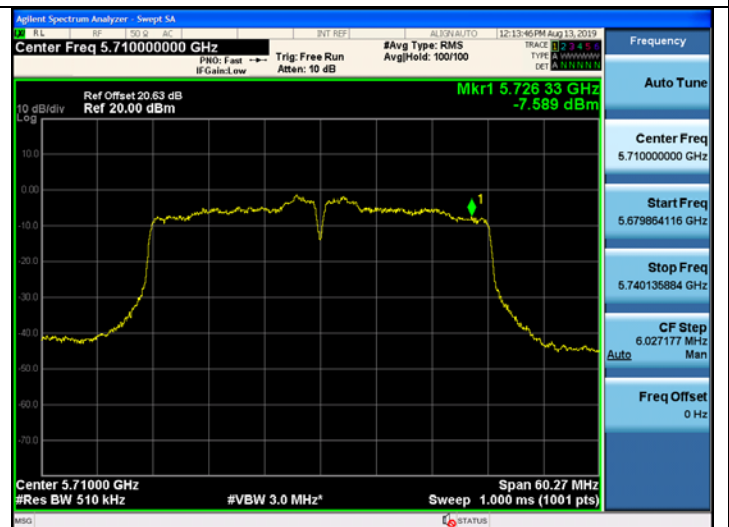
802.11n(HT40) UNII 3 Band



802.11ac(VHT40) UNII 2C Band



802.11ac(VHT40) UNII 3 Band



802.11ac(VHT80) UNII 2C Band

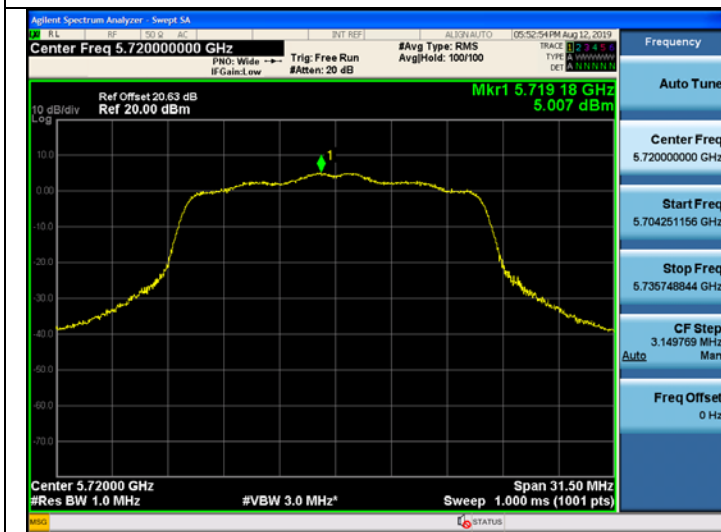


802.11ac(VHT80) UNII 3 Band



Test Plots [ANT2]

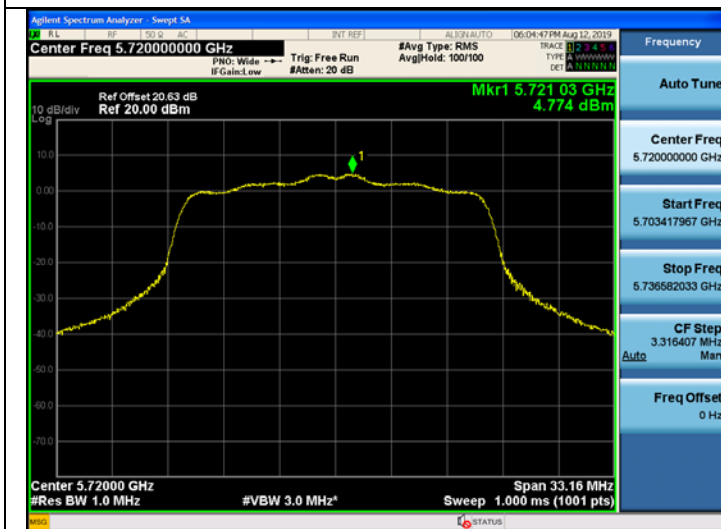
802.11a UNII 2C Band



802.11a UNII 3 Band



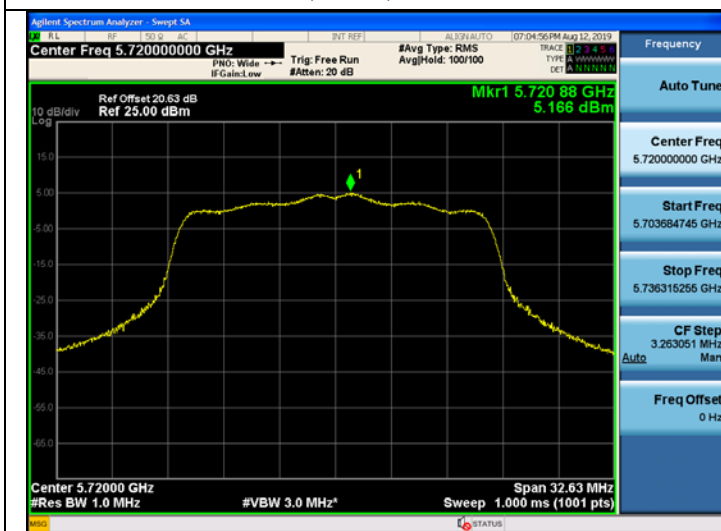
802.11n(HT20) UNII 2C Band



802.11n(HT20) UNII 3 Band



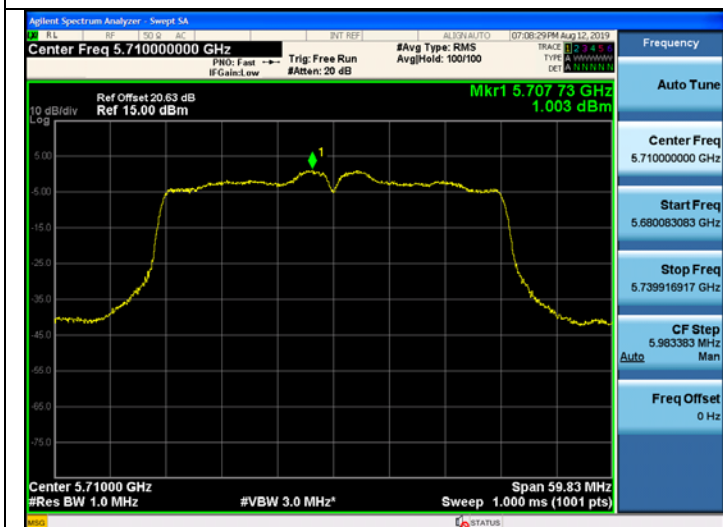
802.11ac(VHT20) UNII 2C Band



802.11ac(VHT20) UNII 3 Band



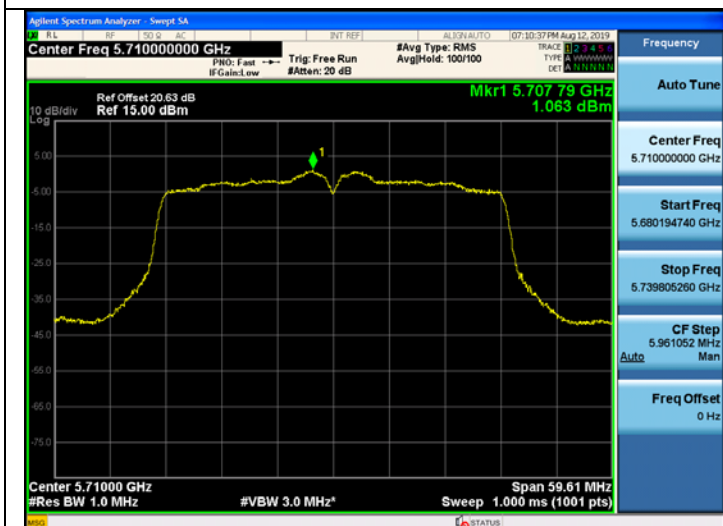
802.11n(HT40) UNII 2C Band



802.11n(HT40) UNII 3 Band



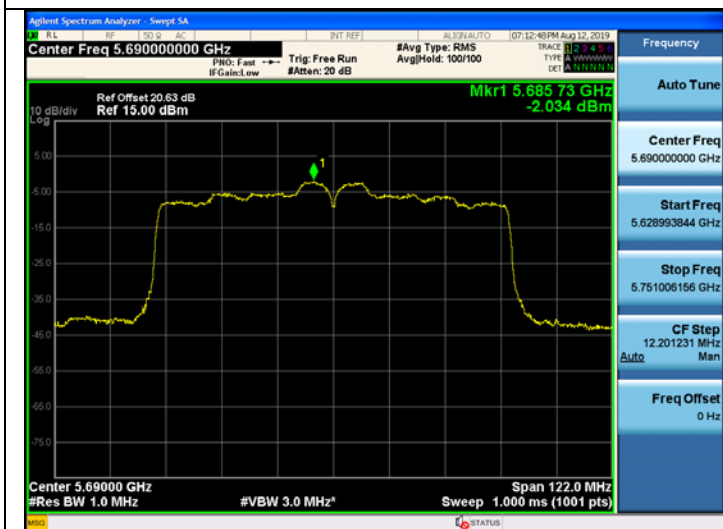
802.11ac(VHT40) UNII 2C Band



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 – 30MHz

Frequency	Reading	Ant. factor	Cable loss	Ant. POL	Total	Limit	Margin
MHz	dBuV/m	dBm/m	dBm	(H/V)	dBuV/m	dBuV/m	dB
No Critical peaks found							

Note:

1. The reading 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 (dBuV) + Distance extrapolation factor
4. The test results for below 30 MHz is correlated to an open site.
The result on OATS is about 2 dB higher than semi-anechoic chamber(10 m chamber)

Frequency Range : Below 1 GHz

Frequency	Reading	Ant. factor	Cable loss	Ant. POL	Total	Limit	Margin
MHz	dBuV/m	dBm/m	dBm	(H/V)	dBuV/m	dBuV/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

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]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10360	56.80	-2.55	V	54.25	68.20	13.95	PK
15540	53.25	-1.04	V	52.21	73.98	21.77	PK
15540	40.09	-1.04	V	39.05	53.98	14.93	AV
10360	55.55	-2.55	H	53.00	68.20	15.20	PK
15540	52.77	-1.04	H	51.73	73.98	22.25	PK
15540	39.90	-1.04	H	38.86	53.98	15.12	AV

Band : UNII 1

Operation Mode: 802.11 a

Transfer Rate: 6 Mbps

Operating Frequency 5200 MHz

Channel No. 40 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10400	56.89	-1.97	V	54.92	68.20	13.28	PK
15600	53.15	-2.39	V	50.76	73.98	23.22	PK
15600	39.69	-2.39	V	37.30	53.98	16.68	AV
10400	54.20	-1.97	H	52.23	68.20	15.97	PK
15600	52.90	-2.39	H	50.51	73.98	23.47	PK
15600	38.50	-2.39	H	36.11	53.98	17.87	AV

Band : UNII 1

Operation Mode: 802.11 a

Transfer Rate: 6 Mbps

Operating Frequency 5240 MHz

Channel No. 48 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10480	56.93	-3.16	V	53.77	68.20	14.43	PK
15720	52.36	-2.57	V	49.79	73.98	24.19	PK
15720	39.23	-2.57	V	36.66	53.98	17.32	AV
10480	55.71	-3.16	H	52.55	68.20	15.65	PK
15720	51.74	-2.57	H	49.17	73.98	24.81	PK
15720	38.52	-2.57	H	35.95	53.98	18.03	AV

Band : UNII 2A

Operation Mode: 802.11 a

Transfer Rate: 6 Mbps

Operating Frequency 5260 MHz

Channel No. 52 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10520	58.45	-3.06	V	55.39	68.20	12.81	PK
15780	52.94	-2.55	V	50.39	73.98	23.59	PK
15780	38.14	-2.55	V	35.59	53.98	18.39	AV
10520	58.17	-3.06	H	55.11	68.20	13.09	PK
15780	51.63	-2.55	H	49.08	73.98	24.90	PK
15780	39.20	-2.55	H	36.65	53.98	17.33	AV

Band : UNII 2A

Operation Mode: 802.11 a

Transfer Rate: 6 Mbps

Operating Frequency 5300 MHz

Channel No. 60 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10600	58.79	-2.95	V	55.84	73.98	18.14	PK
10600	44.93	-2.95	V	41.98	53.98	12.00	AV
15900	52.53	-3.45	V	49.08	73.98	24.90	PK
15900	39.36	-3.45	V	35.91	53.98	18.07	AV
10600	57.56	-2.95	H	54.61	73.98	19.37	PK
10600	43.79	-2.95	H	40.84	53.98	13.14	AV
15900	51.88	-3.45	H	48.43	73.98	25.55	PK
15900	39.31	-3.45	H	35.86	53.98	18.12	AV

Band : UNII 2A

Operation Mode: 802.11 a

Transfer Rate: 6 Mbps

Operating Frequency 5320 MHz

Channel No. 64 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10640	59.06	-2.94	V	56.12	73.98	17.86	PK
10640	44.76	-2.94	V	41.82	53.98	12.16	AV
15960	52.62	-3.22	V	49.40	73.98	24.58	PK
15960	40.08	-3.22	V	36.86	53.98	17.12	AV
10640	58.52	-2.94	H	55.58	73.98	18.40	PK
10640	43.56	-2.94	H	40.62	53.98	13.36	AV
15960	52.39	-3.22	H	49.17	73.98	24.81	PK
15960	40.03	-3.22	H	36.81	53.98	17.17	AV

Band : UNII 2C

Operation Mode: 802.11 a

Transfer Rate: 6 Mbps

Operating Frequency 5500 MHz

Channel No. 100 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11000	53.81	-1.91	V	51.90	73.98	22.08	PK
11000	40.59	-1.91	V	38.68	53.98	15.30	AV
16500	52.57	-0.72	V	51.85	68.20	16.35	PK
11000	52.71	-1.91	H	50.80	73.98	23.18	PK
11000	40.25	-1.91	H	38.34	53.98	15.64	AV
16500	51.50	-0.72	H	50.78	68.20	17.42	PK

Band : UNII 2C

Operation Mode: 802.11 a

Transfer Rate: 6 Mbps

Operating Frequency 5600 MHz

Channel No. 120 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11200	56.84	-2.24	V	54.60	73.98	19.38	PK
11200	43.88	-2.24	V	41.64	53.98	12.34	AV
16800	52.16	1.54	V	53.70	68.20	14.50	PK
11200	56.71	-2.24	H	54.47	73.98	19.51	PK
11200	43.26	-2.24	H	41.02	53.98	12.96	AV
16800	51.73	1.54	H	53.27	68.20	14.93	PK

Band : UNII 2C

Operation Mode: 802.11 a

Transfer Rate: 6 Mbps

Operating Frequency 5720 MHz

Channel No. 144 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11440	53.73	-1.88	V	51.85	73.98	22.13	PK
11440	40.39	-1.88	V	38.51	53.98	15.47	AV
17160	52.54	3.28	V	55.82	68.20	12.38	PK
11440	52.65	-1.88	H	50.77	73.98	23.21	PK
11440	40.02	-1.88	H	38.14	53.98	15.84	AV
17160	51.55	3.28	H	54.83	68.20	13.37	PK

Band : UNII 3

Operation Mode: 802.11 a

Transfer Rate: 6 Mbps

Operating Frequency 5745MHz

Channel No. 149 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11490	55.72	-2.07	V	53.65	73.98	20.33	PK
11490	42.17	-2.07	V	40.10	53.98	13.88	AV
17235	52.15	3.87	V	56.02	68.20	12.18	PK
11490	54.82	-2.07	H	52.75	73.98	21.23	PK
11490	40.88	-2.07	H	38.81	53.98	15.17	AV
17235	51.70	3.87	H	55.57	68.20	12.63	PK

Band : UNII 3

Operation Mode: 802.11 a

Transfer Rate: 6 Mbps

Operating Frequency 5785 MHz

Channel No. 157 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11570	54.25	-2.13	V	52.12	73.98	21.86	PK
11570	41.34	-2.13	V	39.21	53.98	14.77	AV
17355	51.41	4.56	V	55.97	68.20	12.24	PK
11570	53.47	-2.13	H	51.34	73.98	22.64	PK
11570	40.76	-2.13	H	38.63	53.98	15.35	AV
17355	50.80	4.56	H	55.36	68.20	12.85	PK

Band : UNII 3

Operation Mode: 802.11 a

Transfer Rate: 6 Mbps

Operating Frequency 5825 MHz

Channel No. 165 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11650	57.06	-2.46	V	54.60	73.98	19.38	PK
11650	44.17	-2.46	V	41.71	53.98	12.27	AV
17475	52.11	5.67	V	57.78	68.20	10.43	PK
11650	56.32	-2.46	H	53.86	73.98	20.12	PK
11650	43.82	-2.46	H	41.36	53.98	12.62	AV
17475	51.53	5.67	H	57.20	68.20	11.01	PK

Band : UNII 1

Operation Mode: 802.11 n(HT20)

Transfer MCS Index: MCS0

Operating Frequency 5180 MHz

Channel No. 36 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10360	57.01	-2.55	V	54.46	68.20	13.74	PK
15540	52.90	-1.04	V	51.86	73.98	22.12	PK
15540	40.13	-1.04	V	39.09	53.98	14.89	AV
10360	55.86	-2.55	H	53.31	68.20	14.89	PK
15540	51.72	-1.04	H	50.68	73.98	23.30	PK
15540	39.90	-1.04	H	38.86	53.98	15.12	AV

Band : UNII 1

Operation Mode: 802.11 n(HT20)

Transfer MCS Index: MCS0

Operating Frequency 5200 MHz

Channel No. 40 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10400	55.88	-1.97	V	53.91	68.20	14.29	PK
15600	52.99	-2.39	V	50.60	73.98	23.38	PK
15600	39.87	-2.39	V	37.48	53.98	16.50	AV
10400	54.68	-1.97	H	52.71	68.20	15.49	PK
15600	51.80	-2.39	H	49.41	73.98	24.57	PK
15600	39.20	-2.39	H	36.81	53.98	17.17	AV

Band : UNII 1

Operation Mode: 802.11 n(HT20)

Transfer MCS Index: MCS0

Operating Frequency 5240 MHz

Channel No. 48 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10480	56.30	-3.16	V	53.14	68.20	15.06	PK
15720	52.48	-2.57	V	49.91	73.98	24.07	PK
15720	39.49	-2.57	V	36.92	53.98	17.06	AV
10480	55.26	-3.16	H	52.10	68.20	16.10	PK
15720	51.66	-2.57	H	49.09	73.98	24.89	PK
15720	38.52	-2.57	H	35.95	53.98	18.03	AV

Band : UNII 2A

Operation Mode: 802.11 n(HT20)

Transfer MCS Index: MCS0

Operating Frequency 5260 MHz

Channel No. 52 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10520	57.58	-3.06	V	54.52	68.20	13.68	PK
15780	52.57	-2.55	V	50.02	73.98	23.96	PK
15780	38.86	-2.55	V	36.31	53.98	17.67	AV
10520	55.79	-3.06	H	52.73	68.20	15.47	PK
15780	51.07	-2.55	H	48.52	73.98	25.46	PK
15780	38.22	-2.55	H	35.67	53.98	18.31	AV

Band : UNII 2A

Operation Mode: 802.11 n(HT20)

Transfer MCS Index: MCS0

Operating Frequency 5300 MHz

Channel No. 60 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10600	57.35	-2.95	V	54.40	73.98	19.58	PK
10600	44.55	-2.95	V	41.60	53.98	12.38	AV
15900	52.22	-3.45	V	48.77	73.98	25.21	PK
15900	39.32	-3.45	V	35.87	53.98	18.11	AV
10600	57.06	-2.95	H	54.11	73.98	19.87	PK
10600	43.92	-2.95	H	40.97	53.98	13.01	AV
15900	51.78	-3.45	H	48.33	73.98	25.65	PK
15900	39.18	-3.45	H	35.73	53.98	18.25	AV

Band : UNII 2A

Operation Mode: 802.11 n(HT20)

Transfer MCS Index: MCS0

Operating Frequency 5320 MHz

Channel No. 64 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10640	57.32	-2.94	V	54.38	73.98	19.60	PK
10640	44.04	-2.94	V	41.10	53.98	12.88	AV
15960	52.78	-3.22	V	49.56	73.98	24.42	PK
15960	40.12	-3.22	V	36.90	53.98	17.08	AV
10640	56.81	-2.94	H	53.87	73.98	20.11	PK
10640	43.99	-2.94	H	41.05	53.98	12.93	AV
15960	51.94	-3.22	H	48.72	73.98	25.26	PK
15960	39.88	-3.22	H	36.66	53.98	17.32	AV

Band : UNII 2C

Operation Mode: 802.11 n(HT20)

Transfer MCS Index: MCS0

Operating Frequency 5500 MHz

Channel No. 100 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11000	53.67	-1.91	V	51.76	73.98	22.22	PK
11000	40.81	-1.91	V	38.90	53.98	15.08	AV
16500	52.38	-0.72	V	51.66	68.20	16.54	PK
11000	52.81	-1.91	H	50.90	73.98	23.08	PK
11000	40.66	-1.91	H	38.75	53.98	15.23	AV
16500	51.44	-0.72	H	50.72	68.20	17.48	PK

Band : UNII 2C

Operation Mode: 802.11 n(HT20)

Transfer MCS Index: MCS0

Operating Frequency 5600 MHz

Channel No. 120 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11200	55.37	-2.24	V	53.13	73.98	20.85	PK
11200	42.50	-2.24	V	40.26	53.98	13.72	AV
16800	51.75	1.54	V	53.29	68.20	14.91	PK
11200	54.73	-2.24	H	52.49	73.98	21.49	PK
11200	41.92	-2.24	H	39.68	53.98	14.30	AV
16800	51.38	1.54	H	52.92	68.20	15.28	PK

Band : UNII 2C

Operation Mode: 802.11 n(HT20)

Transfer MCS Index: MCS0

Operating Frequency 5720 MHz

Channel No. 144 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11440	53.60	-1.88	V	51.72	73.98	22.26	PK
11440	40.82	-1.88	V	38.94	53.98	15.04	AV
17160	51.83	3.28	V	55.11	68.20	13.09	PK
11440	53.22	-1.88	H	51.34	73.98	22.64	PK
11440	40.35	-1.88	H	38.47	53.98	15.51	AV
17160	51.04	3.28	H	54.32	68.20	13.88	PK

Band : UNII 3

Operation Mode: 802.11 n(HT20)

Transfer MCS Index: MCS0

Operating Frequency 5745MHz

Channel No. 149 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11490	56.24	-2.07	V	54.17	73.98	19.81	PK
11490	42.51	-2.07	V	40.44	53.98	13.54	AV
17235	52.31	3.87	V	56.18	68.20	12.02	PK
11490	55.03	-2.07	H	52.96	73.98	21.02	PK
11490	41.36	-2.07	H	39.29	53.98	14.69	AV
17235	51.48	3.87	H	55.35	68.20	12.85	PK

Band : UNII 3

Operation Mode: 802.11 n(HT20)

Transfer MCS Index: MCS0

Operating Frequency 5785 MHz

Channel No. 157 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11570	56.07	-2.13	V	53.94	73.98	20.04	PK
11570	42.80	-2.13	V	40.67	53.98	13.31	AV
17355	52.00	4.56	V	56.56	68.20	11.65	PK
11570	55.45	-2.13	H	53.32	73.98	20.66	PK
11570	41.66	-2.13	H	39.53	53.98	14.45	AV
17355	51.22	4.56	H	55.78	68.20	12.43	PK

Band : UNII 3

Operation Mode: 802.11 n(HT20)

Transfer MCS Index: MCS0

Operating Frequency 5825 MHz

Channel No. 165 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11650	57.78	-2.46	V	55.32	73.98	18.66	PK
11650	44.00	-2.46	V	41.54	53.98	12.44	AV
17475	52.52	5.67	V	58.19	68.20	10.02	PK
11650	56.81	-2.46	H	54.35	73.98	19.63	PK
11650	42.83	-2.46	H	40.37	53.98	13.61	AV
17475	51.60	5.67	H	57.27	68.20	10.94	PK

Band : UNII 1

Operation Mode: 802.11 ac(VHT20)

Transfer MCS Index: MCS0

Operating Frequency 5180 MHz

Channel No. 36 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10360	55.92	-2.55	V	53.37	68.20	14.83	PK
15540	53.10	-1.04	V	52.06	73.98	21.92	PK
15540	40.09	-1.04	V	39.05	53.98	14.93	AV
10360	54.63	-2.55	H	52.08	68.20	16.12	PK
15540	52.15	-1.04	H	51.11	73.98	22.87	PK
15540	39.92	-1.04	H	38.88	53.98	15.10	AV

Band : UNII 1

Operation Mode: 802.11 ac(VHT20)

Transfer MCS Index: MCS0

Operating Frequency 5200 MHz

Channel No. 40 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10400	56.08	-1.97	V	54.11	68.20	14.09	PK
15600	53.62	-2.39	V	51.23	73.98	22.75	PK
15600	40.01	-2.39	V	37.62	53.98	16.36	AV
10400	55.40	-1.97	H	53.43	68.20	14.77	PK
15600	52.86	-2.39	H	50.47	73.98	23.51	PK
15600	39.81	-2.39	H	37.42	53.98	16.56	AV

Band : UNII 1

Operation Mode: 802.11 ac(VHT20)

Transfer MCS Index: MCS0

Operating Frequency 5240 MHz

Channel No. 48 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10480	58.80	-3.16	V	55.64	68.20	12.56	PK
15720	52.74	-2.57	V	50.17	73.98	23.81	PK
15720	39.49	-2.57	V	36.92	53.98	17.06	AV
10480	57.82	-3.16	H	54.66	68.20	13.54	PK
15720	51.18	-2.57	H	48.61	73.98	25.37	PK
15720	38.50	-2.57	H	35.93	53.98	18.05	AV

Band : UNII 2A

Operation Mode: 802.11 ac(VHT20)

Transfer MCS Index: MCS0

Operating Frequency 5260MHz

Channel No. 52 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10520	57.81	-3.06	V	54.75	68.20	13.45	PK
15780	52.83	-2.55	V	50.28	73.98	23.70	PK
15780	38.94	-2.55	V	36.39	53.98	17.59	AV
10520	56.25	-3.06	H	53.19	68.20	15.01	PK
15780	51.18	-2.55	H	48.63	73.98	25.35	PK
15780	38.05	-2.55	H	35.50	53.98	18.48	AV

Band : UNII 2A

Operation Mode: 802.11 ac(VHT20)

Transfer MCS Index: MCS0

Operating Frequency 5300 MHz

Channel No. 60 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10600	57.16	-2.95	V	54.21	73.98	19.77	PK
10600	43.89	-2.95	V	40.94	53.98	13.04	AV
15900	52.30	-3.45	V	48.85	73.98	25.13	PK
15900	39.40	-3.45	V	35.95	53.98	18.03	AV
10600	56.48	-2.95	H	53.53	73.98	20.45	PK
10600	42.76	-2.95	H	39.81	53.98	14.17	AV
15900	51.49	-3.45	H	48.04	73.98	25.94	PK
15900	38.88	-3.45	H	35.43	53.98	18.55	AV

Band : UNII 2A

Operation Mode: 802.11 ac(VHT20)

Transfer MCS Index: MCS0

Operating Frequency 5320 MHz

Channel No. 64 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10640	55.80	-2.94	V	52.86	73.98	21.12	PK
10640	43.23	-2.94	V	40.29	53.98	13.69	AV
15960	52.97	-3.22	V	49.75	73.98	24.23	PK
15960	40.04	-3.22	V	36.82	53.98	17.16	AV
10640	55.17	-2.94	H	52.23	73.98	21.75	PK
10640	42.81	-2.94	H	39.87	53.98	14.11	AV
15960	52.68	-3.22	H	49.46	73.98	24.52	PK
15960	39.88	-3.22	H	36.66	53.98	17.32	AV

Band : UNII 2C

Operation Mode: 802.11 ac(VHT20)

Transfer MCS Index: MCS0

Operating Frequency 5500 MHz

Channel No. 100 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11000	54.25	-1.91	V	52.34	73.98	21.64	PK
11000	40.74	-1.91	V	38.83	53.98	15.15	AV
16500	52.85	-0.72	V	52.13	68.20	16.07	PK
11000	53.27	-1.91	H	51.36	73.98	22.62	PK
11000	40.63	-1.91	H	38.72	53.98	15.26	AV
16500	52.18	-0.72	H	51.46	68.20	16.74	PK

Band : UNII 2C

Operation Mode: 802.11 ac(VHT20)

Transfer MCS Index: MCS0

Operating Frequency 5600 MHz

Channel No. 120 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11200	57.78	-2.24	V	55.54	73.98	18.44	PK
11200	43.07	-2.24	V	40.83	53.98	13.15	AV
16800	51.70	1.54	V	53.24	68.20	14.96	PK
11200	55.63	-2.24	H	53.39	73.98	20.59	PK
11200	41.90	-2.24	H	39.66	53.98	14.32	AV
16800	51.41	1.54	H	52.95	68.20	15.25	PK

Band : UNII 2C

Operation Mode: 802.11 ac(VHT20)

Transfer MCS Index: MCS0

Operating Frequency 5720 MHz

Channel No. 144 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11440	52.97	-1.88	V	51.09	73.98	22.89	PK
11440	40.26	-1.88	V	38.38	53.98	15.60	AV
17160	52.26	3.28	V	55.54	68.20	12.66	PK
11440	52.26	-1.88	H	50.38	73.98	23.60	PK
11440	40.10	-1.88	H	38.22	53.98	15.76	AV
17160	51.68	3.28	H	54.96	68.20	13.24	PK

Band : UNII 3

Operation Mode: 802.11 ac(VHT20)

Transfer MCS Index: MCS0

Operating Frequency 5745MHz

Channel No. 149 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11490	55.43	-2.07	V	53.36	73.98	20.62	PK
11490	41.49	-2.07	V	39.42	53.98	14.56	AV
17235	52.73	3.87	V	56.60	68.20	11.60	PK
11490	54.08	-2.07	H	52.01	73.98	21.97	PK
11490	40.43	-2.07	H	38.36	53.98	15.62	AV
17235	51.18	3.87	H	55.05	68.20	13.15	PK

Band : UNII 3

Operation Mode: 802.11 ac(VHT20)

Transfer MCS Index: MCS0

Operating Frequency 5785 MHz

Channel No. 157 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11570	55.52	-2.13	V	53.39	73.98	20.59	PK
11570	42.03	-2.13	V	39.90	53.98	14.08	AV
17355	51.91	4.56	V	56.47	68.20	11.74	PK
11570	54.60	-2.13	H	52.47	73.98	21.51	PK
11570	41.81	-2.13	H	39.68	53.98	14.30	AV
17355	50.78	4.56	H	55.34	68.20	12.87	PK

Band : UNII 3

Operation Mode: 802.11 ac(VHT20)

Transfer MCS Index: MCS0

Operating Frequency 5825 MHz

Channel No. 165 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11650	56.39	-2.46	V	53.93	73.98	20.05	PK
11650	42.86	-2.46	V	40.40	53.98	13.58	AV
17475	52.74	5.67	V	58.41	68.20	9.80	PK
11650	55.27	-2.46	H	52.81	73.98	21.17	PK
11650	41.79	-2.46	H	39.33	53.98	14.65	AV
17475	51.83	5.67	H	57.50	68.20	10.71	PK

Band : UNII 1

Operation Mode: 802.11 n(HT40)

Transfer MCS Index: MCS0

Operating Frequency 5190 MHz

Channel No. 38 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10380	55.45	-2.27	V	53.18	68.20	15.02	PK
15570	53.07	-2.41	V	50.66	73.98	23.32	PK
15570	40.51	-2.41	V	38.10	53.98	15.88	AV
10380	54.12	-2.27	H	51.85	68.20	16.35	PK
15570	52.40	-2.41	H	49.99	73.98	23.99	PK
15570	39.80	-2.41	H	37.39	53.98	16.59	AV

Band : UNII 1

Operation Mode: 802.11 n(HT40)

Transfer MCS Index: MCS0

Operating Frequency 5230 MHz

Channel No. 46 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10460	56.85	-2.96	V	53.89	68.20	14.31	PK
15690	53.32	-2.19	V	51.13	73.98	22.85	PK
15690	40.27	-2.19	V	38.08	53.98	15.90	AV
10460	55.38	-2.96	H	52.42	68.20	15.78	PK
15690	52.79	-2.19	H	50.60	73.98	23.38	PK
15690	40.05	-2.19	H	37.86	53.98	16.12	AV

Band : UNII 2A

Operation Mode: 802.11 n(HT40)

Transfer MCS Index: MCS0

Operating Frequency 5270 MHz

Channel No. 54 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10540	55.73	-2.62	V	53.11	68.20	15.09	PK
15810	52.60	-3.01	V	49.59	73.98	24.39	PK
15810	39.70	-3.01	V	36.69	53.98	17.29	AV
10540	54.29	-2.62	H	51.67	68.20	16.53	PK
15810	51.88	-3.01	H	48.87	73.98	25.11	PK
15810	39.57	-3.01	H	36.56	53.98	17.42	AV

Band : UNII 2A

Operation Mode: 802.11 n(HT40)

Transfer MCS Index: MCS0

Operating Frequency 5310 MHz

Channel No. 62 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10620	55.51	-3.11	V	52.40	73.98	21.58	PK
10620	43.75	-3.11	V	40.64	53.98	13.34	AV
15930	52.81	-3.67	V	49.14	73.98	24.84	PK
15930	40.50	-3.67	V	36.83	53.98	17.15	AV
10620	54.09	-3.11	H	50.98	73.98	23.00	PK
10620	42.88	-3.11	H	39.77	53.98	14.21	AV
15930	52.57	-3.67	H	48.90	73.98	25.08	PK
15930	39.22	-3.67	H	35.55	53.98	18.43	AV

Band : UNII 2C

Operation Mode: 802.11 n(HT40)

Transfer MCS Index: MCS0

Operating Frequency 5510 MHz

Channel No. 102 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11020	53.21	-1.71	V	51.50	73.98	22.48	PK
11020	41.38	-1.71	V	39.67	53.98	14.31	AV
16530	53.46	-1.15	V	52.31	68.20	15.89	PK
11020	52.69	-1.71	H	50.98	73.98	23.00	PK
11020	41.11	-1.71	H	39.40	53.98	14.58	AV
16530	52.71	-1.15	H	51.56	68.20	16.64	PK

Band : UNII 2C

Operation Mode: 802.11 n(HT40)

Transfer MCS Index: MCS0

Operating Frequency 5590 MHz

Channel No. 118 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11180	56.04	-2.03	V	54.01	73.98	19.97	PK
11180	43.63	-2.03	V	41.60	53.98	12.38	AV
16770	52.33	1.16	V	53.49	68.20	14.71	PK
11180	55.46	-2.03	H	53.43	73.98	20.55	PK
11180	43.12	-2.03	H	41.09	53.98	12.89	AV
16770	51.19	1.16	H	52.35	68.20	15.85	PK

Band : UNII 2C

Operation Mode: 802.11 n(HT40)

Transfer MCS Index: MCS0

Operating Frequency 5710 MHz

Channel No. 142 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11420	52.58	-1.82	V	50.76	73.98	23.22	PK
11420	40.53	-1.82	V	38.71	53.98	15.27	AV
17130	52.71	2.94	V	55.65	68.20	12.55	PK
11420	51.87	-1.82	H	50.05	73.98	23.93	PK
11420	40.03	-1.82	H	38.21	53.98	15.77	AV
17130	50.40	2.94	H	53.34	68.20	14.86	PK

Band : UNII 3

Operation Mode: 802.11 n(HT40)

Transfer MCS Index: MCS0

Operating Frequency 5755 MHz

Channel No. 151 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11510	53.68	-1.83	V	51.85	73.98	22.13	PK
11510	41.31	-1.83	V	39.48	53.98	14.50	AV
17265	52.54	3.80	V	56.34	68.20	11.87	PK
11510	52.67	-1.83	H	50.84	73.98	23.14	PK
11510	40.63	-1.83	H	38.80	53.98	15.18	AV
17265	51.37	3.80	H	55.17	68.20	13.04	PK

Band : UNII 3

Operation Mode: 802.11 n(HT40)

Transfer MCS Index: MCS0

Operating Frequency 5795 MHz

Channel No. 159 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11590	54.78	-2.10	V	52.68	73.98	21.30	PK
11590	42.63	-2.10	V	40.53	53.98	13.45	AV
17385	51.71	4.82	V	56.53	68.20	11.67	PK
11590	53.42	-2.10	H	51.32	73.98	22.66	PK
11590	41.58	-2.10	H	39.48	53.98	14.50	AV
17385	50.33	4.82	H	55.15	68.20	13.05	PK

Band : UNII 1

Operation Mode: 802.11 ac(VHT40)

Transfer MCS Index: MCS0

Operating Frequency 5190 MHz

Channel No. 38 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10380	55.46	-2.27	V	53.19	68.20	15.01	PK
15570	53.22	-2.41	V	50.81	73.98	23.17	PK
15570	40.47	-2.41	V	38.06	53.98	15.92	AV
10380	54.11	-2.27	H	51.84	68.20	16.36	PK
15570	52.40	-2.41	H	49.99	73.98	23.99	PK
15570	40.06	-2.41	H	37.65	53.98	16.33	AV

Band : UNII 1

Operation Mode: 802.11 ac(VHT40)

Transfer MCS Index: MCS0

Operating Frequency 5230 MHz

Channel No. 46 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10460	55.84	-2.96	V	52.88	68.20	15.32	PK
15690	53.34	-2.19	V	51.15	73.98	22.83	PK
15690	40.26	-2.19	V	38.07	53.98	15.91	AV
10460	54.72	-2.96	H	51.76	68.20	16.44	PK
15690	52.46	-2.19	H	50.27	73.98	23.71	PK
15690	39.82	-2.19	H	37.63	53.98	16.35	AV

Band : UNII 2A

Operation Mode: 802.11 ac(VHT40)

Transfer MCS Index: MCS0

Operating Frequency 5270 MHz

Channel No. 54 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10540	54.83	-2.62	V	52.21	68.20	15.99	PK
15810	52.75	-3.01	V	49.74	73.98	24.24	PK
15810	39.67	-3.01	V	36.66	53.98	17.32	AV
10540	53.66	-2.62	H	51.04	68.20	17.16	PK
15810	52.26	-3.01	H	49.25	73.98	24.73	PK
15810	39.11	-3.01	H	36.10	53.98	17.88	AV

Band : UNII 2A

Operation Mode: 802.11 ac(VHT40)

Transfer MCS Index: MCS0

Operating Frequency 5310 MHz

Channel No. 62 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10620	55.36	-3.11	V	52.25	73.98	21.73	PK
10620	43.25	-3.11	V	40.14	53.98	13.84	AV
15930	53.50	-3.67	V	49.83	73.98	24.15	PK
15930	40.49	-3.67	V	36.82	53.98	17.16	AV
10620	54.90	-3.11	H	51.79	73.98	22.19	PK
10620	42.81	-3.11	H	39.70	53.98	14.28	AV
15930	52.05	-3.67	H	48.38	73.98	25.60	PK
15930	40.07	-3.67	H	36.40	53.98	17.58	AV

Band : UNII 2C

Operation Mode: 802.11 ac(VHT40)

Transfer MCS Index: MCS0

Operating Frequency 5510 MHz

Channel No. 102 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11020	53.83	-1.71	V	52.12	73.98	21.86	PK
11020	41.37	-1.71	V	39.66	53.98	14.32	AV
16530	53.18	-1.15	V	52.03	68.20	16.17	PK
11020	52.89	-1.71	H	51.18	73.98	22.80	PK
11020	41.08	-1.71	H	39.37	53.98	14.61	AV
16530	52.40	-1.15	H	51.25	68.20	16.95	PK

Band : UNII 2C

Operation Mode: 802.11 ac(VHT40)

Transfer MCS Index: MCS0

Operating Frequency 5590 MHz

Channel No. 118 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11180	55.62	-2.03	V	53.59	73.98	20.39	PK
11180	42.89	-2.03	V	40.86	53.98	13.12	AV
16770	51.97	1.16	V	53.13	68.20	15.07	PK
11180	54.81	-2.03	H	52.78	73.98	21.20	PK
11180	42.51	-2.03	H	40.48	53.98	13.50	AV
16770	51.55	1.16	H	52.71	68.20	15.49	PK

Band : UNII 2C

Operation Mode: 802.11 ac(VHT40)

Transfer MCS Index: MCS0

Operating Frequency 5710 MHz

Channel No. 142 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11420	53.30	-1.82	V	51.48	73.98	22.50	PK
11420	40.39	-1.82	V	38.57	53.98	15.41	AV
17130	52.13	2.94	V	55.07	68.20	13.13	PK
11420	51.98	-1.82	H	50.16	73.98	23.82	PK
11420	40.11	-1.82	H	38.29	53.98	15.69	AV
17130	52.03	2.94	H	54.97	68.20	13.23	PK

Band : UNII 3
 Operation Mode: 802.11 ac(VHT40)
 Transfer MCS Index: MCS0
 Operating Frequency 5755 MHz
 Channel No. 151 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L.-A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11510	54.56	-1.83	V	52.73	73.98	21.25	PK
11510	42.04	-1.83	V	40.21	53.98	13.77	AV
17265	51.99	3.80	V	55.79	68.20	12.42	PK
11510	53.21	-1.83	H	51.38	73.98	22.60	PK
11510	41.11	-1.83	H	39.28	53.98	14.70	AV
17265	50.64	3.80	H	54.44	68.20	13.77	PK

Band : UNII 3
 Operation Mode: 802.11 ac(VHT40)
 Transfer MCS Index: MCS0
 Operating Frequency 5795 MHz
 Channel No. 159 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11590	55.03	-2.10	V	52.93	73.98	21.05	PK
11590	42.35	-2.10	V	40.25	53.98	13.73	AV
17385	51.70	4.82	V	56.52	68.20	11.68	PK
11590	54.62	-2.10	H	52.52	73.98	21.46	PK
11590	41.39	-2.10	H	39.29	53.98	14.69	AV
17385	50.40	4.82	H	55.22	68.20	12.98	PK

Band : UNII 1

Operation Mode: 802.11 ac(VHT80)

Transfer MCS Index: MCS0

Operating Frequency 5210 MHz

Channel No. 42 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10420	55.58	-2.67	V	52.91	68.20	15.29	PK
15630	53.17	-2.90	V	50.27	73.98	23.71	PK
15630	41.73	-2.90	V	38.83	53.98	15.15	AV
10420	54.20	-2.67	H	51.53	68.20	16.67	PK
15630	52.10	-2.90	H	49.20	73.98	24.78	PK
15630	40.80	-2.90	H	37.90	53.98	16.08	AV

Band : UNII 2A

Operation Mode: 802.11 ac(VHT80)

Transfer MCS Index: MCS0

Operating Frequency 5290 MHz

Channel No. 58 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10580	55.37	-2.78	V	52.59	68.20	15.61	PK
15870	52.94	-3.72	V	49.22	73.98	24.76	PK
15870	40.63	-3.72	V	36.91	53.98	17.07	AV
10580	54.81	-2.78	H	52.03	68.20	16.17	PK
15870	52.69	-3.72	H	48.97	73.98	25.01	PK
15870	40.22	-3.72	H	36.50	53.98	17.48	AV

Band : UNII 2C

Operation Mode: 802.11 ac(VHT80)

Transfer MCS Index: MCS0

Operating Frequency 5530 MHz

Channel No. 106 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11060	54.96	-1.76	V	53.20	73.98	20.78	PK
11060	43.86	-1.76	V	42.10	53.98	11.88	AV
16590	52.79	-1.06	V	51.73	68.20	16.47	PK
11060	54.30	-1.76	H	52.54	73.98	21.44	PK
11060	42.44	-1.76	H	40.68	53.98	13.30	AV
16590	52.53	-1.06	H	51.47	68.20	16.73	PK

Band : UNII 2C

Operation Mode: 802.11 ac(VHT80)

Transfer MCS Index: MCS0

Operating Frequency 5610 MHz

Channel No. 122 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11220	54.29	-2.53	V	51.76	73.98	22.22	PK
11220	42.31	-2.53	V	39.78	53.98	14.20	AV
16830	51.19	1.35	V	52.54	68.20	15.66	PK
11220	53.98	-2.53	H	51.45	73.98	22.53	PK
11220	42.16	-2.53	H	39.63	53.98	14.35	AV
16830	50.69	1.35	H	52.04	68.20	16.16	PK

Band : UNII 2C

Operation Mode: 802.11 ac(VHT80)

Transfer MCS Index: MCS0

Operating Frequency 5690 MHz

Channel No. 138 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11380	53.24	-1.92	V	51.32	73.98	22.66	PK
11380	42.10	-1.92	V	40.18	53.98	13.80	AV
17070	52.82	2.28	V	55.10	68.20	13.10	PK
11380	52.81	-1.92	H	50.89	73.98	23.09	PK
11380	41.05	-1.92	H	39.13	53.98	14.85	AV
17070	52.07	2.28	H	54.35	68.20	13.85	PK

Band : UNII 3

Operation Mode: 802.11 ac(VHT80)

Transfer MCS Index: MCS0

Operating Frequency 5775 MHz

Channel No. 155 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11550	54.15	-1.50	V	52.65	73.98	21.33	PK
11550	43.45	-1.50	V	41.95	53.98	12.03	AV
17325	51.79	4.52	V	56.31	68.20	11.90	PK
11550	53.51	-1.50	H	52.01	73.98	21.97	PK
11550	42.36	-1.50	H	40.86	53.98	13.12	AV
17325	50.35	4.52	H	54.87	68.20	13.34	PK

[DBS Mode 2.4 GHz & 5GHz]

Band : UNII 1

Operation Mode: 802.11 a & 802.11b

Transfer Rate: 6 Mbps & 1 Mbps

Operating Frequency 5180 MHz & 2412 MHz

Channel No. 36 Ch & 1 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10360	56.57	-3.05	V	53.52	68.20	14.68	PK
15540	52.87	-0.54	V	52.33	73.98	21.65	PK
15540	39.76	-0.54	V	39.22	53.98	14.76	AV
10360	57.31	-3.05	H	54.26	68.20	13.94	PK
15540	53.90	-0.54	H	53.36	73.98	20.62	PK
15540	39.61	-0.54	H	39.07	53.98	14.91	AV

Band : UNII 2A

Operation Mode: 802.11 a & 802.11b

Transfer Rate: 6 Mbps & 1Mbps

Operating Frequency 5260 MHz & 2437MHz

Channel No. 52 Ch & 6 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10520	57.08	-3.56	V	53.52	68.20	14.68	PK
15780	50.88	-1.55	V	49.33	73.98	24.65	PK
15780	38.44	-1.55	V	36.89	53.98	17.09	AV
10520	58.06	-3.56	H	54.50	68.20	13.70	PK
15780	51.84	-1.55	H	50.29	73.98	23.69	PK
15780	38.54	-1.55	H	36.99	53.98	16.99	AV

Band : UNII 2C

Operation Mode: 802.11 a & 802.11b

Transfer Rate: 6 Mbps & 1Mbps

Operating Frequency 5600 MHz & 2437MHz

Channel No. 120 Ch & 6 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11200	56.41	-2.34	V	54.07	73.98	19.91	PK
11200	43.03	-2.34	V	40.69	53.98	13.29	AV
16800	52.25	1.04	V	53.29	68.20	14.91	PK
11200	54.68	-2.34	H	52.34	73.98	21.64	PK
11200	42.64	-2.34	H	40.30	53.98	13.68	AV
16800	51.73	1.04	H	52.77	68.20	15.43	PK

Band : UNII 3

Operation Mode: 802.11 a & 802.11b

Transfer Rate: 6 Mbps & 1Mbps

Operating Frequency 5785 MHz & 2462 MHz

Channel No. 157 Ch & 11 Ch

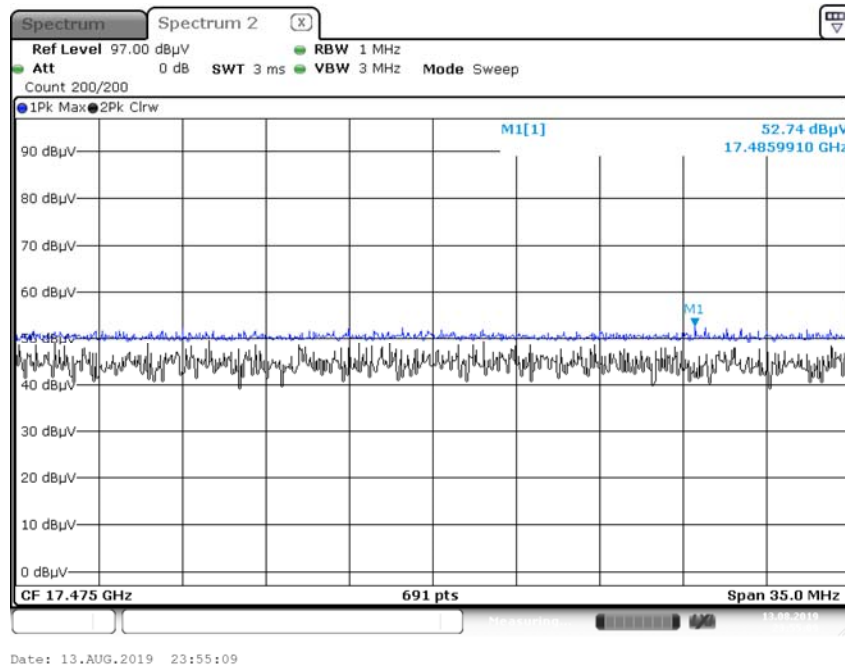
Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11570	54.65	-2.13	V	52.52	73.98	21.46	PK
11570	41.97	-2.13	V	39.84	53.98	14.14	AV
17355	50.71	3.16	V	53.87	68.20	14.34	PK
11570	55.24	-2.13	H	53.11	73.98	20.87	PK
11570	42.01	-2.13	H	39.88	53.98	14.10	AV
17355	51.90	3.16	H	55.06	68.20	13.15	PK

Band : UNII 3
 Operation Mode: 802.11 a
 Transfer Rate: 6 Mbps
 Operating Frequency 5825 MHz & 2462 MHz
 Channel No. 165 Ch & 11 Ch

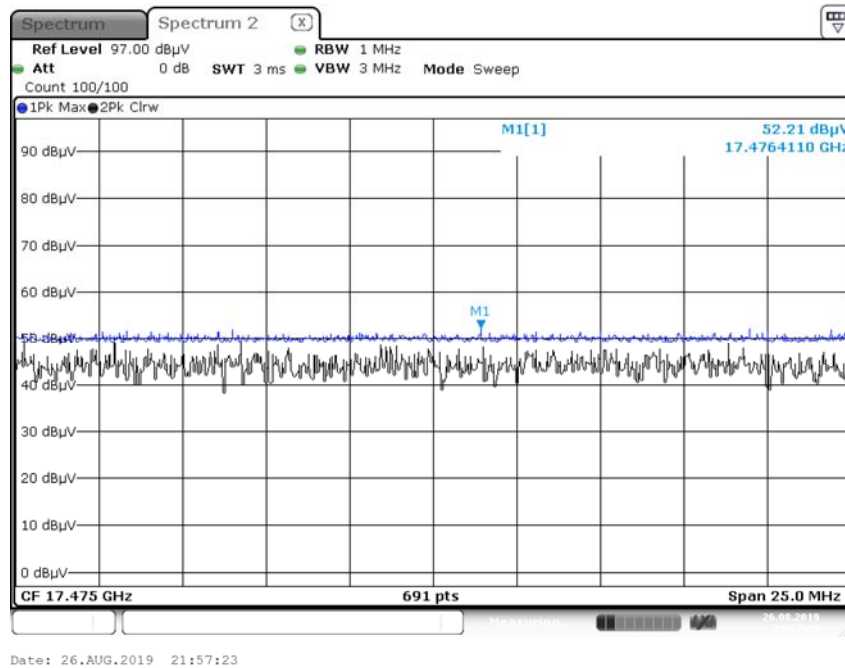
Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11650	56.63	-2.56	V	54.07	73.98	19.91	PK
11650	43.05	-2.56	V	40.49	53.98	13.49	AV
17475	51.81	4.17	V	55.98	68.20	12.23	PK
11650	57.01	-2.56	H	54.45	73.98	19.53	PK
11650	43.91	-2.56	H	41.35	53.98	12.63	AV
17475	52.21	4.17	H	56.38	68.20	11.83	PK

Test Plots

Peak Reading (802.11 ac(VHT20), Ch.165 3rd Harmonic, X-V)



DBS Mode 2.4 GHz & 5GHz Peak Reading (802.11b & 802.11a, Ch.11 & 165, 3rd Harmonic, Y-H)



Note:

Only the worst case plots for Radiated Spurious Emissions.

10.9 RADIATED RESTRICTED BAND EDGE

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

Frequency [MHz]	Reading dBuV	AN.+CL-AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5150	60.62	3.89	H	64.51	73.98	9.47	PK
5150	40.17	3.89	H	44.06	53.98	9.92	AV
5150	60.23	3.89	V	64.12	73.98	9.86	PK
5150	39.88	3.89	V	43.77	53.98	10.21	AV

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

Frequency [MHz]	Reading dBuV	AN.+CL-AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5350	61.53	4.12	H	65.65	73.98	8.33	PK
5350	42.89	4.12	H	47.01	53.98	6.97	AV
5350	61.01	4.12	V	65.13	73.98	8.85	PK
5350	41.69	4.12	V	45.81	53.98	8.17	AV

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

Frequency [MHz]	Reading DBuV	AN.+CL-AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5460	58.01	5.20	H	63.21	73.98	10.77	PK
5460	37.62	5.20	H	42.82	53.98	11.16	AV
5470	59.90	5.16	H	65.06	68.20	3.14	PK
5460	52.24	5.20	V	57.44	73.98	16.54	PK
5460	37.54	5.20	V	42.74	53.98	11.24	AV
5470	58.21	5.16	V	63.37	68.20	4.83	PK

Band : UNII 2C
 Operation Mode: 802.11 a
 Transfer Rate: 6 Mbps
 Operating Frequency 5520 MHz
 Channel No. 104 Ch

Frequency [MHz]	Reading DBuV	AN.+CL-AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5460	57.86	5.20	H	63.06	73.98	10.92	PK
5460	37.00	5.20	H	42.2	53.98	11.78	AV
5470	60.04	5.16	H	65.2	68.20	3.00	PK

Band : UNII 2C

Operation Mode: 802.11 a

Transfer Rate: 6 Mbps

Operating Frequency 5540 MHz

Channel No. 108 Ch

Frequency [MHz]	Reading DBuV	AN.+CL-AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5460	49.91	5.20	H	55.11	73.98	18.87	PK
5460	36.82	5.20	H	42.02	53.98	11.96	AV
5470	50.39	5.16	H	55.55	68.20	12.65	PK

Band : UNII 2C

Operation Mode: 802.11 a

Transfer Rate: 6 Mbps

Operating Frequency 5720 MHz

Channel No. 144 Ch

Frequency [MHz]	Reading DBuV	AN.+CL-AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5850	48.51	7.41	H	55.92	68.20	12.28	PK
5850	47.66	7.41	V	55.07	68.20	13.13	PK

Band : UNII 1

Operation Mode: 802.11 n_HT20

Transfer MCS Index: 0

Operating Frequency 5180 MHz

Channel No. 36 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5150	60.72	3.89	H	64.61	73.98	9.37	PK
5150	38.74	3.89	H	42.63	53.98	11.35	AV
5150	60.05	3.89	V	63.94	73.98	10.04	PK
5150	38.12	3.89	V	42.01	53.98	11.97	AV

Band : UNII 2A

Operation Mode: 802.11 n_HT20

Transfer MCS Index: 0

Operating Frequency 5320 MHz

Channel No. 64 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5350	62.25	4.12	H	66.37	73.98	7.61	PK
5350	44.07	4.12	H	48.19	53.98	5.79	AV
5350	61.65	4.12	V	65.77	73.98	8.21	PK
5350	43.88	4.12	V	48	53.98	5.98	AV

Band : UNII 2C

Operation Mode: 802.11 n_HT20

Transfer MCS Index: 0

Operating Frequency 5500 MHz

Channel No. 100 Ch

Frequency [MHz]	Reading DBuV	AN.+CL-AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBUV/m]	Limit [dBUV/m]	Margin [dB]	Measurement Type
5460	57.92	5.20	H	63.12	73.98	10.86	PK
5460	36.79	5.20	H	41.99	53.98	11.99	AV
5470	59.69	5.16	H	64.85	68.20	3.35	PK
5460	57.22	5.20	V	62.42	73.98	11.56	PK
5460	36.65	5.20	V	41.85	53.98	12.13	AV
5470	58.57	5.16	V	63.73	68.20	4.47	PK

Band : UNII 2C

Operation Mode: 802.11 n_HT20

Transfer MCS Index: 0

Operating Frequency 5520 MHz

Channel No. 104 Ch

Frequency [MHz]	Reading DBuV	AN.+CL-AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBUV/m]	Limit [dBUV/m]	Margin [dB]	Measurement Type
5460	57.72	5.20	H	62.92	73.98	11.06	PK
5460	36.54	5.20	H	41.74	53.98	12.24	AV
5470	60.35	5.16	H	65.51	68.20	2.69	PK

Band : UNII 2C
 Operation Mode: 802.11 n_HT20
 Transfer MCS Index: 0
 Operating Frequency 5540 MHz
 Channel No. 108 Ch

Frequency [MHz]	Reading DBuV	AN.+CL-AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5460	52.76	5.20	H	57.96	73.98	16.02	PK
5460	36.72	5.20	H	41.92	53.98	12.06	AV
5470	52.95	5.16	H	58.11	68.20	10.09	PK

Band : UNII 2C
 Operation Mode: 802.11 n_HT20
 Transfer MCS Index: 0
 Operating Frequency 5720 MHz
 Channel No. 144 Ch

Frequency [MHz]	Reading DBuV	AN.+CL-AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5850	48.36	7.41	H	55.77	68.20	12.43	PK
5850	47.92	7.41	V	55.33	68.20	12.87	PK

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

Frequency [MHz]	Reading dBuV	AN.+CL-AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5150	61.84	3.89	H	65.73	73.98	8.25	PK
5150	40.42	3.89	H	44.31	53.98	9.67	AV
5150	60.94	3.89	V	64.83	73.98	9.15	PK
5150	40.05	3.89	V	43.94	53.98	10.04	AV

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

Frequency [MHz]	Reading dBuV	AN.+CL-AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5350	62.21	4.12	H	66.33	73.98	7.65	PK
5350	42.17	4.12	H	46.29	53.98	7.69	AV
5350	61.32	4.12	V	65.44	73.98	8.54	PK
5350	41.58	4.12	V	45.7	53.98	8.28	AV

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

Frequency [MHz]	Reading DBuV	AN.+CL-AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBUV/m]	Limit [dBUV/m]	Margin [dB]	Measurement Type
5460	56.46	5.20	H	61.66	73.98	12.32	PK
5460	36.70	5.20	H	41.9	53.98	12.08	AV
5470	59.79	5.16	H	64.95	68.20	3.25	PK
5460	56.32	5.20	V	61.52	73.98	12.46	PK
5460	36.01	5.20	V	41.21	53.98	12.77	AV
5470	59.02	5.16	V	64.18	68.20	4.02	PK

Band : UNII 2C
 Operation Mode: 802.11 ac_VHT20
 Transfer MCS Index: 0
 Operating Frequency 5520 MHz
 Channel No. 104 Ch

Frequency [MHz]	Reading DBuV	AN.+CL-AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBUV/m]	Limit [dBUV/m]	Margin [dB]	Measurement Type
5460	57.72	5.20	H	62.92	73.98	11.06	PK
5460	36.33	5.20	H	41.53	53.98	12.45	AV
5470	60.09	5.16	H	65.25	68.20	2.95	PK

Band : UNII 2C
 Operation Mode: 802.11 ac_VHT20
 Transfer MCS Index: 0
 Operating Frequency 5540 MHz
 Channel No. 108 Ch

Frequency [MHz]	Reading DBuV	AN.+CL-AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5460	51.44	5.20	H	56.64	73.98	17.34	PK
5460	35.94	5.20	H	41.14	53.98	12.84	AV
5470	53.53	5.16	H	58.69	68.20	9.51	PK

Band : UNII 2C
 Operation Mode: 802.11 ac_VHT20
 Transfer MCS Index: 0
 Operating Frequency 5720 MHz
 Channel No. 144 Ch

Frequency [MHz]	Reading DBuV	AN.+CL-AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5850	48.19	7.41	H	55.60	68.20	12.60	PK
5850	48.12	7.41	V	55.53	68.20	12.67	PK

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

Frequency [MHz]	Reading dBuV	AN.+CL-AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5150	62.91	3.89	H	66.80	73.98	7.18	PK
5150	47.99	3.89	H	51.88	53.98	2.10	AV
5150	58.43	3.89	V	62.32	73.98	11.66	PK
5150	45.40	3.89	V	49.29	53.98	4.69	AV

Band : UNII 1
 Operation Mode: 802.11 n_HT40
 Transfer MCS Index: 0
 Operating Frequency 5230 MHz
 Channel No. 46 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5150	48.77	3.89	H	52.66	73.98	21.32	PK
5150	38.15	3.89	H	42.04	53.98	11.94	AV
5150	47.91	3.89	V	51.8	73.98	22.18	PK
5150	36.90	3.89	V	40.79	53.98	13.19	AV

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

Frequency [MHz]	Reading dBuV	AN.+CL-AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5350	63.16	4.12	H	67.28	73.98	6.70	PK
5350	46.57	4.12	H	50.69	53.98	3.29	AV
5350	61.24	4.12	V	65.36	73.98	8.62	PK
5350	45.82	4.12	V	49.94	53.98	4.04	AV

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

Frequency [MHz]	Reading DBuV	AN.+CL-AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5460	58.33	5.20	H	63.53	73.98	10.45	PK
5460	37.20	5.20	H	42.4	53.98	11.58	AV
5470	59.79	5.16	H	64.95	68.20	3.25	PK
5460	57.92	5.20	V	63.12	73.98	10.86	PK
5460	36.30	5.20	V	41.5	53.98	12.48	AV
5470	59.37	5.16	V	64.53	68.20	3.67	PK

Band : UNII 2C

Operation Mode: 802.11 n_HT40

Transfer MCS Index: 0

Operating Frequency 5350 MHz

Channel No. 110 Ch

Frequency [MHz]	Reading DBuV	AN.+CL-AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5460	51.29	5.20	H	56.49	73.98	17.49	PK
5460	38.08	5.20	H	43.28	53.98	10.70	AV
5470	54.19	5.16	H	59.35	68.20	8.85	PK

Band : UNII 2C

Operation Mode: 802.11 n_HT40

Transfer MCS Index: 0

Operating Frequency 5710 MHz

Channel No. 142 Ch

Frequency [MHz]	Reading DBuV	AN.+CL-AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5850	48.65	7.41	H	56.06	68.20	12.14	PK
5850	47.65	7.41	V	55.06	68.20	13.14	PK

Band : UNII 1

Operation Mode: 802.11 ac_VHT40

Transfer MCS Index: 0

Operating Frequency 5190 MHz

Channel No. 38 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5150	62.76	3.89	H	66.65	73.98	7.33	PK
5150	47.24	3.89	H	51.13	53.98	2.85	AV
5150	62.07	3.89	V	65.96	73.98	8.02	PK
5150	46.50	3.89	V	50.39	53.98	3.59	AV

Band : UNII 1

Operation Mode: 802.11 ac_VHT40

Transfer MCS Index: 0

Operating Frequency 5230 MHz

Channel No. 46 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5150	58.10	3.89	H	61.99	73.98	11.99	PK
5150	37.63	3.89	H	41.52	53.98	12.46	AV
5150	57.88	3.89	V	61.77	73.98	12.21	PK
5150	36.20	3.89	V	40.09	53.98	13.89	AV

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

Frequency [MHz]	Reading dBuV	AN.+CL-AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5350	63.00	4.12	H	67.12	73.98	6.86	PK
5350	47.39	4.12	H	51.51	53.98	2.47	AV
5350	62.14	4.12	V	66.26	73.98	7.72	PK
5350	46.42	4.12	V	50.54	53.98	3.44	AV

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

Frequency [MHz]	Reading DBuV	AN.+CL-AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5460	58.26	5.20	H	63.46	73.98	10.52	PK
5460	37.08	5.20	H	42.28	53.98	11.70	AV
5470	59.70	5.16	H	64.86	68.20	3.34	PK
5460	57.86	5.20	V	63.06	73.98	10.92	PK
5460	36.86	5.20	V	42.06	53.98	11.92	AV
5470	59.26	5.16	V	64.42	68.20	3.78	PK

Band : UNII 2C
 Operation Mode: 802.11 ac_VHT40
 Transfer MCS Index: 0
 Operating Frequency 5350 MHz
 Channel No. 110 Ch

Frequency [MHz]	Reading DBuV	AN.+CL-AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5460	51.64	5.20	H	56.84	73.98	17.14	PK
5460	37.90	5.20	H	43.1	53.98	10.88	AV
5470	56.39	5.16	H	61.55	68.20	6.65	PK

Band : UNII 2C
 Operation Mode: 802.11 ac_VHT40
 Transfer MCS Index: 0
 Operating Frequency 5710 MHz
 Channel No. 142 Ch

Frequency [MHz]	Reading DBuV	AN.+CL-AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5850	49.02	7.41	H	56.43	68.20	11.77	PK
5850	48.76	7.41	V	56.17	68.20	12.03	PK

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

Frequency [MHz]	Reading dBuV	AN.+CL-AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5150	58.28	3.89	H	62.17	73.98	11.81	PK
5150	47.14	3.89	H	51.03	53.98	2.95	AV
5150	56.23	3.89	V	60.12	73.98	13.86	PK
5150	45.89	3.89	V	49.78	53.98	4.20	AV

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

Frequency [MHz]	Reading dBuV	AN.+CL-AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5350	59.92	4.12	H	64.04	73.98	9.94	PK
5350	46.24	4.12	H	50.36	53.98	3.62	AV
5350	58.64	4.12	V	62.76	73.98	11.22	PK
5350	44.84	4.12	V	48.96	53.98	5.02	AV

Band : UNII 2C

Operation Mode: 802.11 ac_VHT80

Transfer MCS Index: 0

Operating Frequency 5530 MHz

Channel No. 106 Ch

Frequency [MHz]	Reading DBuV	AN.+CL-AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBUV/m]	Limit [dBUV/m]	Margin [dB]	Measurement Type
5460	55.13	5.20	H	60.33	73.98	13.65	PK
5460	43.02	5.20	H	48.22	53.98	5.76	AV
5470	57.91	5.16	H	63.07	68.20	5.13	PK
5460	56.37	5.20	V	61.57	73.98	12.41	PK
5460	43.46	5.20	V	48.66	53.98	5.32	AV
5470	58.65	5.16	V	63.81	68.20	4.39	PK

Band : UNII 2C

Operation Mode: 802.11 ac_VHT80

Transfer MCS Index: 0

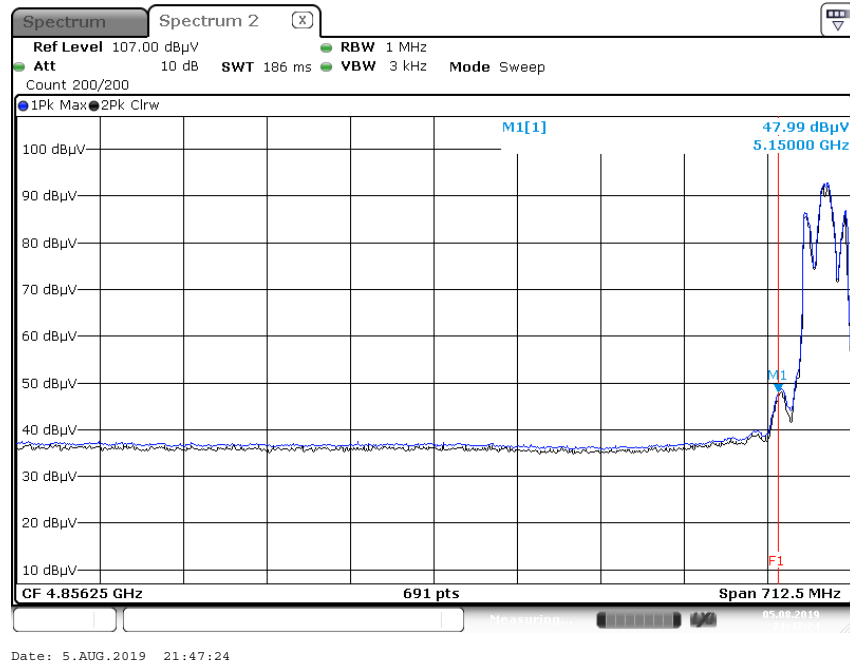
Operating Frequency 5690 MHz

Channel No. 138 Ch

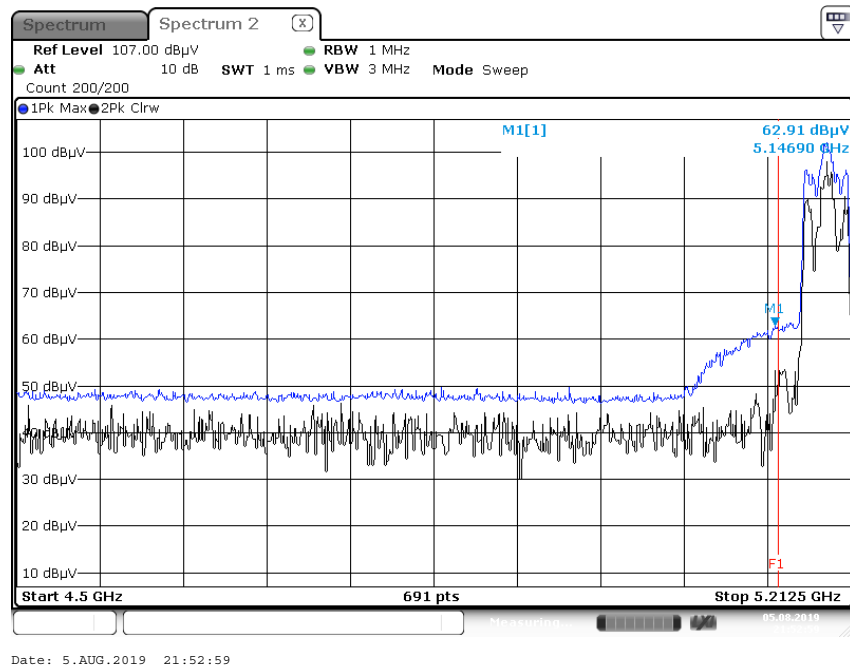
Frequency [MHz]	Reading DBuV	AN.+CL-AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBUV/m]	Limit [dBUV/m]	Margin [dB]	Measurement Type
5850	48.91	7.41	H	56.32	68.20	11.88	PK
5850	47.39	7.41	V	54.8	68.20	13.40	PK

Test Plots(UNII 1, 2A, 2C)

Average Reading (802.11 n_HT40, Ch.38, Z-H)



Peak Reading (802.11 n_HT40, Ch.38 , Z-H)

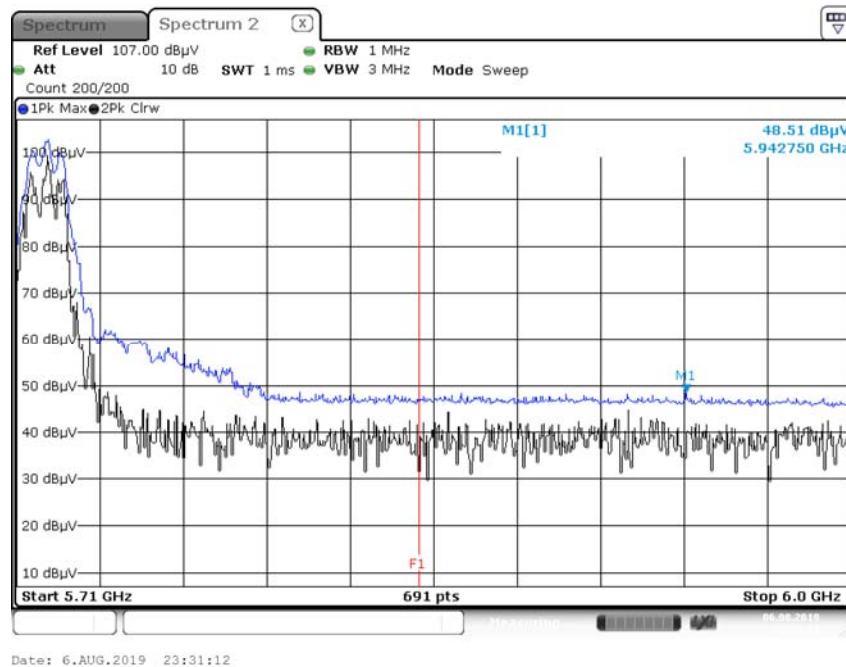


Note:

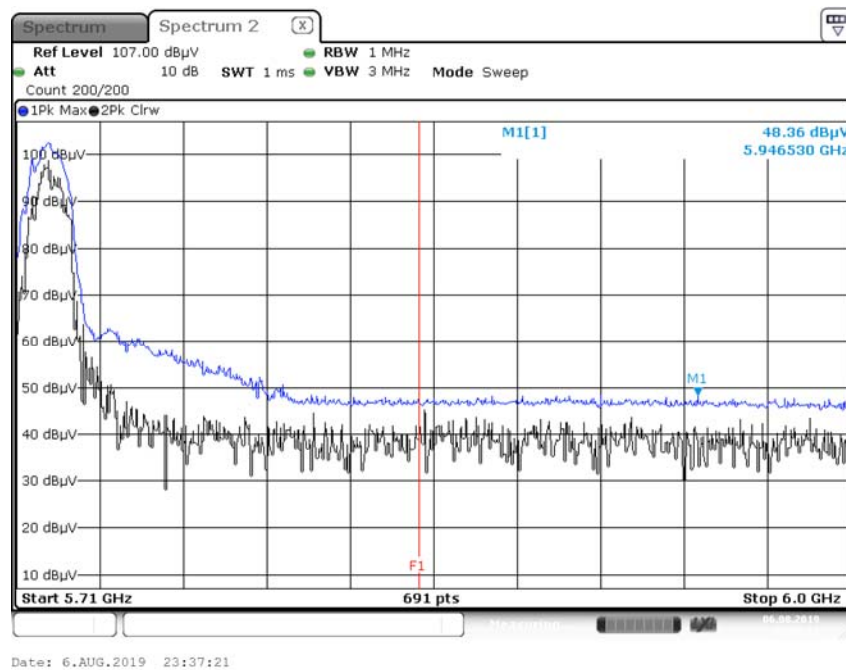
Only the worst case plots for Radiated Restricted Band Edge.

Test Plots(Staraddle Channel)

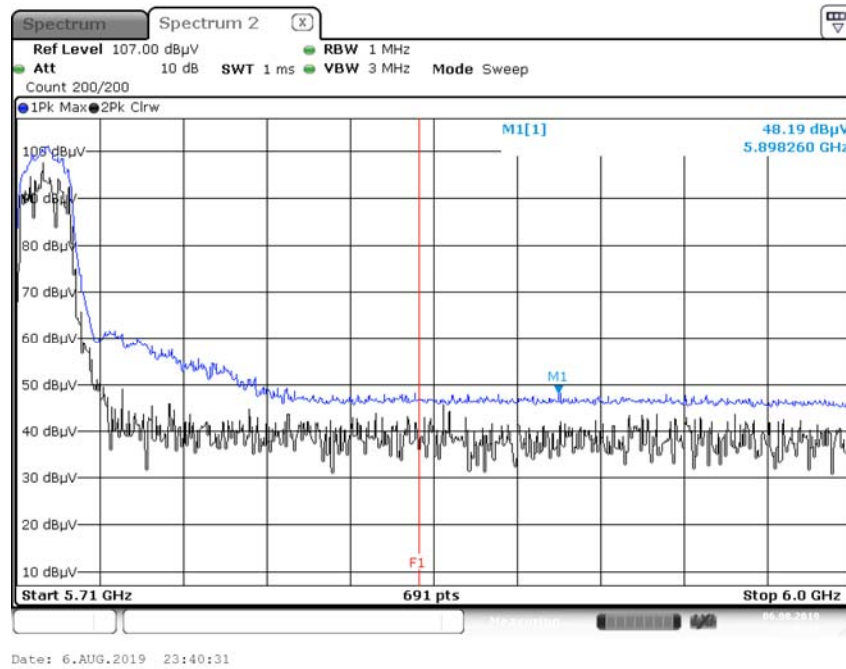
Peak Reading (802.11a, Ch.144, Y-H)



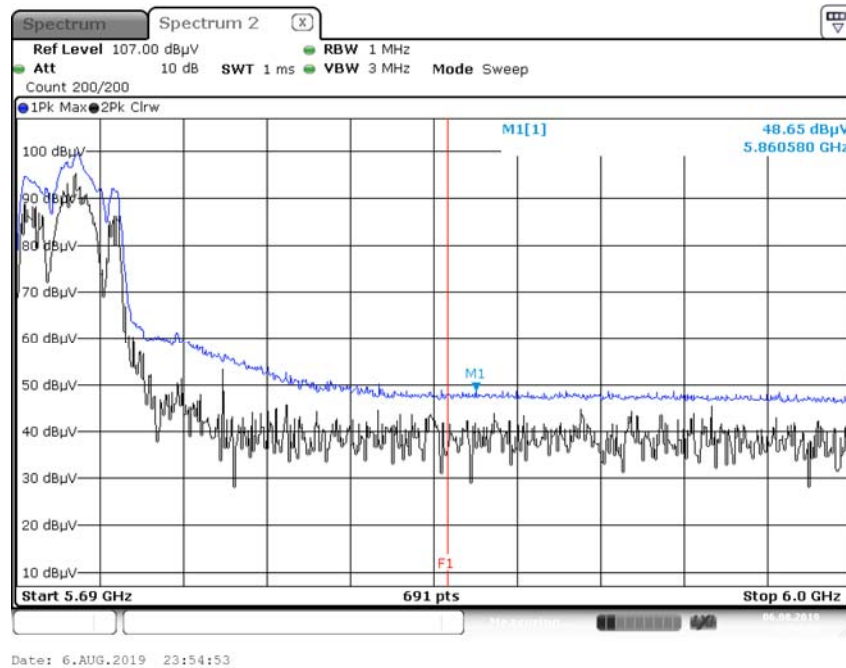
Peak Reading (802.11n_HT20, Ch.144, Y-H)



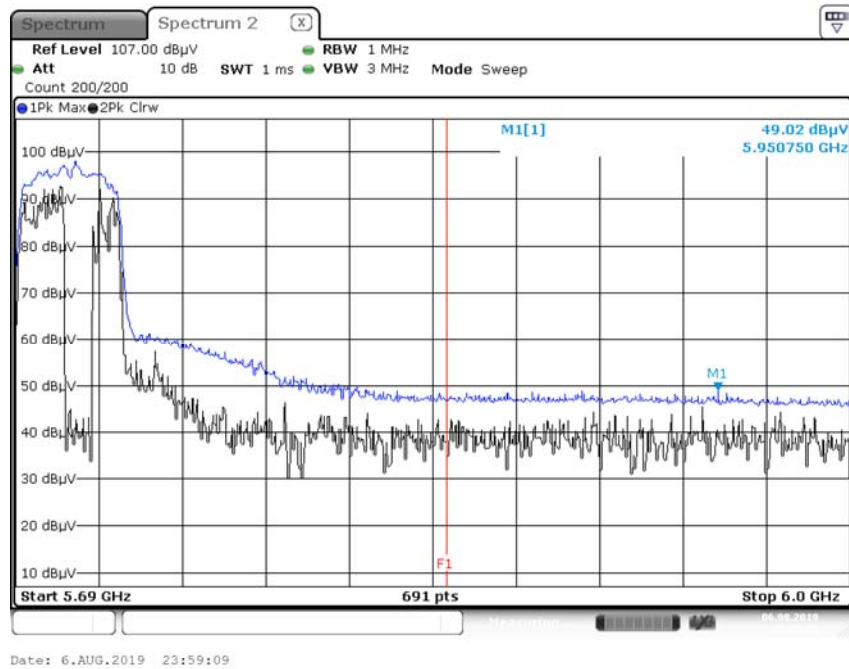
Peak Reading (802.11ac_VHT20, Ch.144, Y-H)



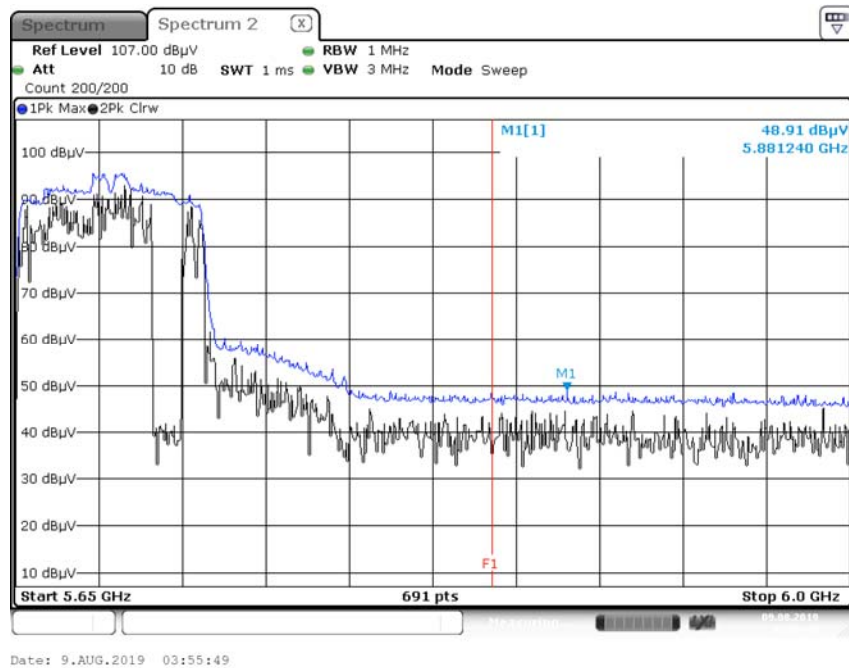
Peak Reading (802.11n_HT40, Ch.142, Y-H)



Peak Reading (802.11ac_VHT40, Ch.142, Y-H)



Peak Reading (802.11ac_VHT80, Ch.138, Y-H)

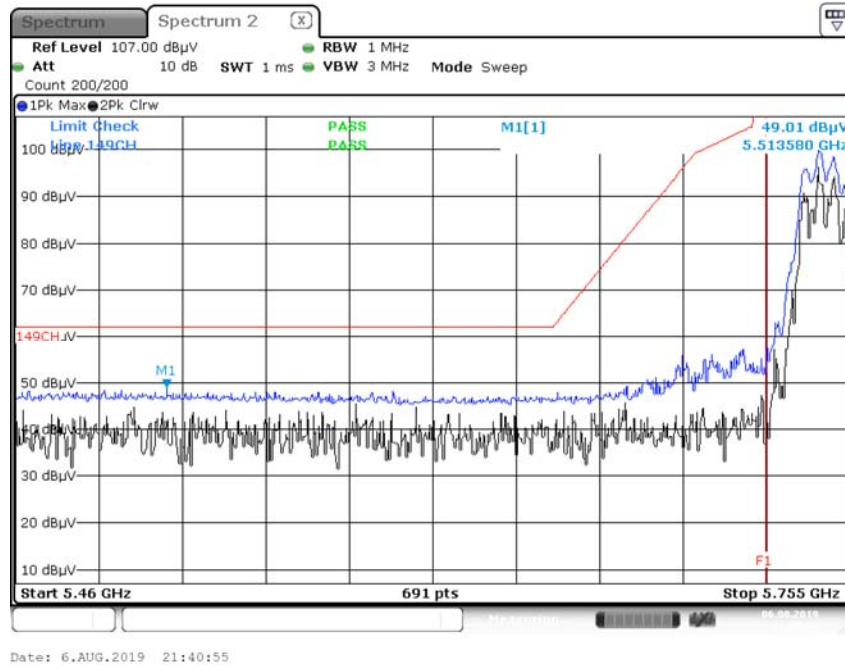


Note :

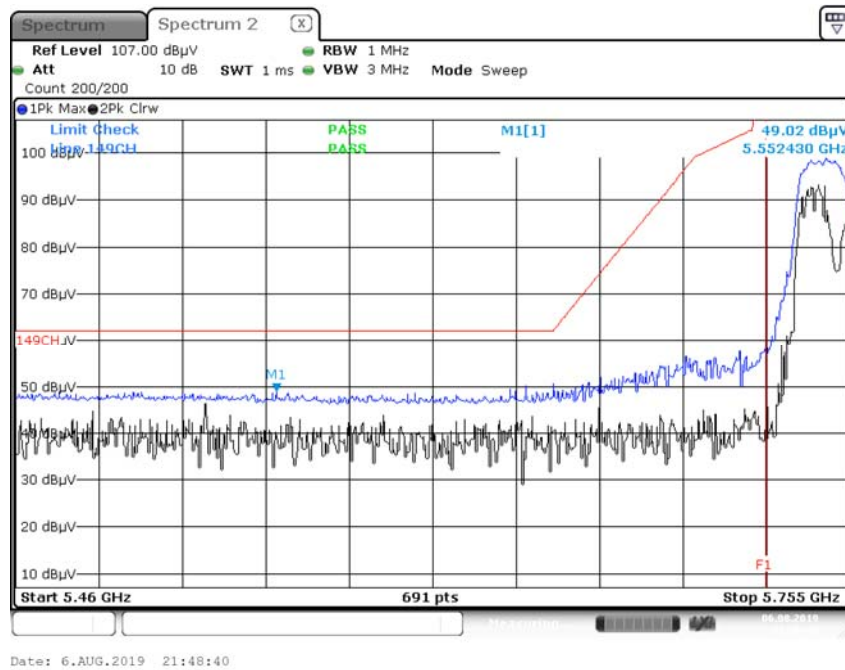
1. Only the worst case plots for Radiated Restricted Band Edge.
2. Red line : 5 850 MHz
3. Ambient Noise (Because of ambient noise, We attached only the worst plot without a data table)

Test Plots(UNII 3)

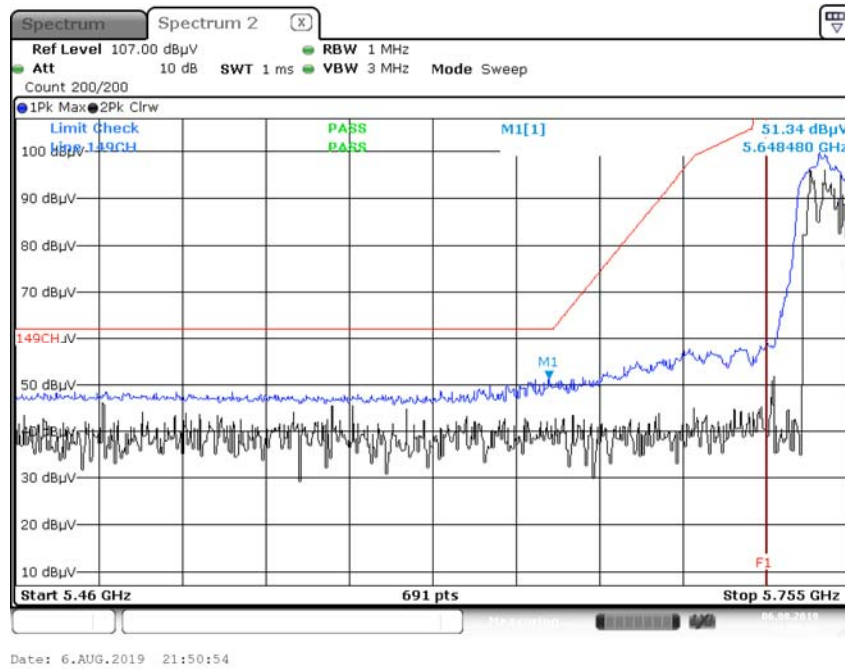
Peak Reading (802.11a, Ch.149, Z-V)



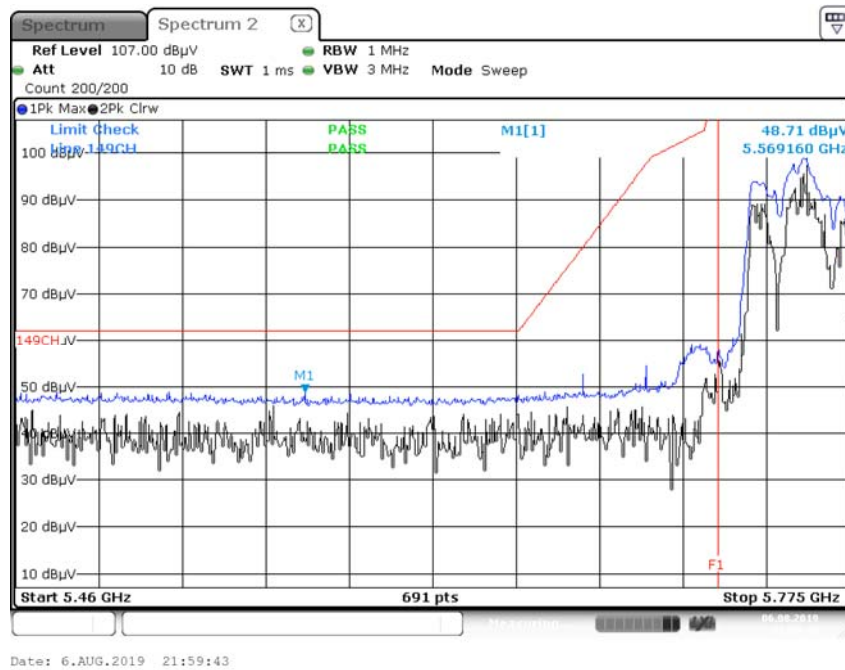
Peak Reading (802.11n_HT20, Ch.149, Z-V)



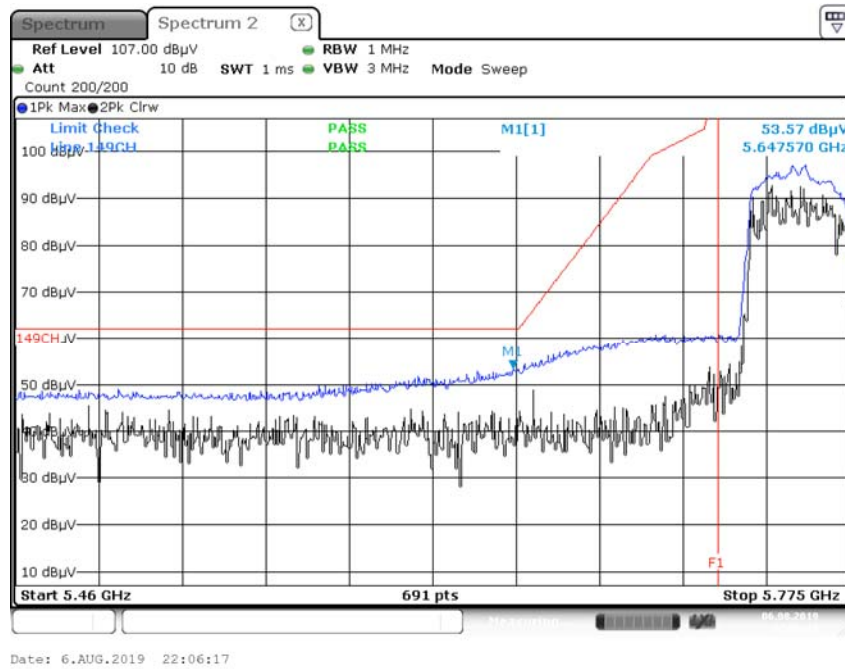
Peak Reading (802.11ac_VHT20, Ch.149, Z-V)



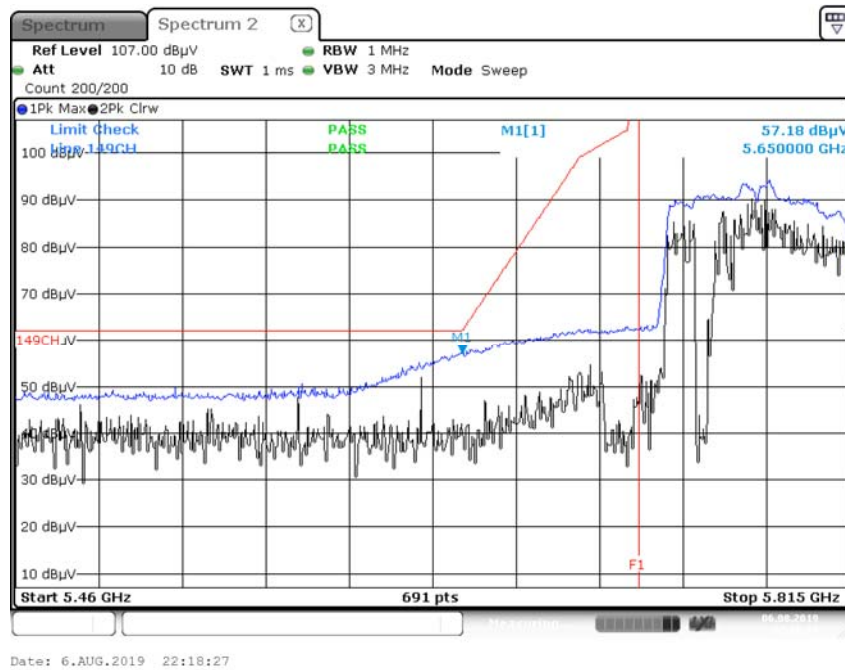
Peak Reading (802.11n_HT40, Ch.151, Z-V)



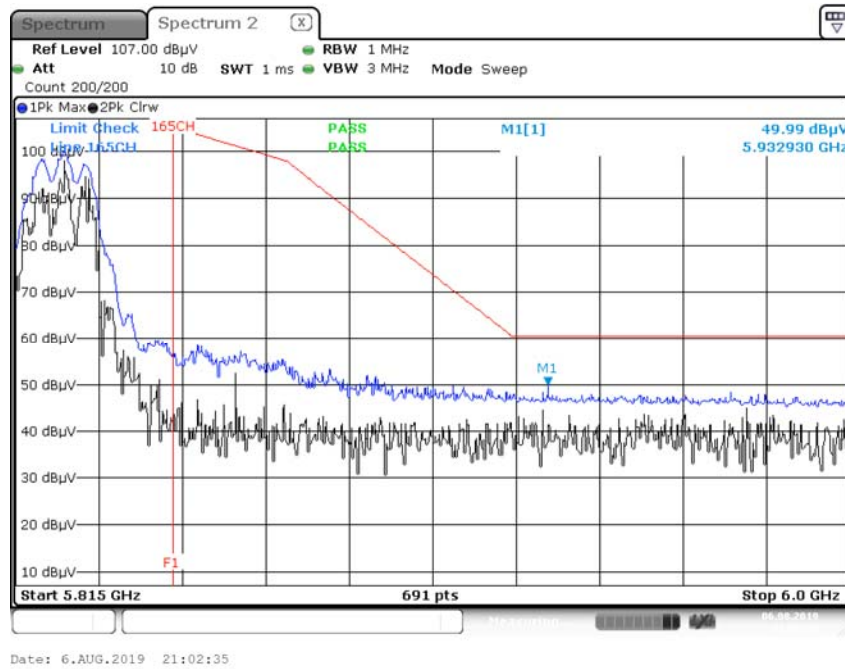
Peak Reading (802.11ac_VHT40, Ch.151, Z-V)



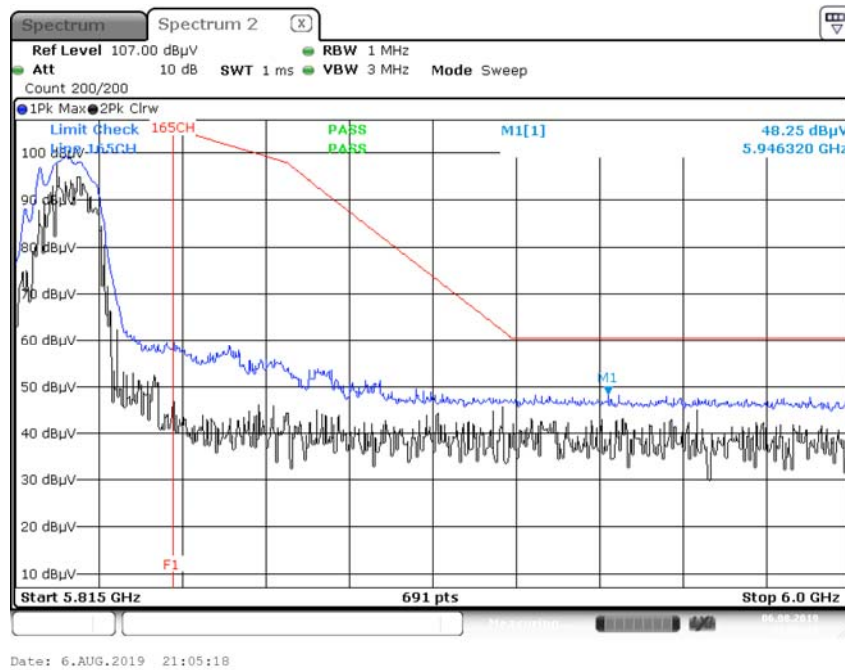
Peak Reading (802.11ac_VHT80, Ch.155, Z-V)



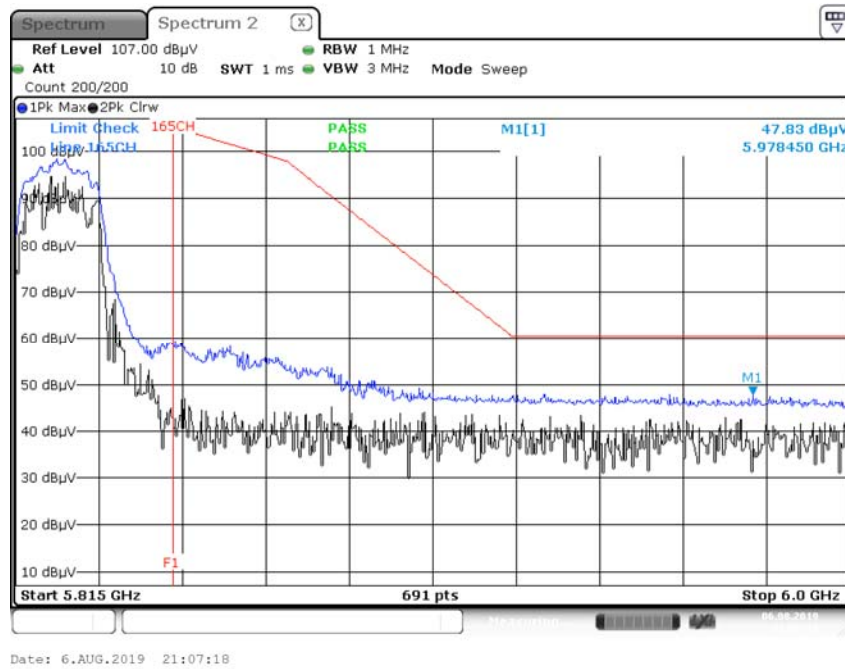
Peak Reading (802.11a, Ch.165, Z-V)



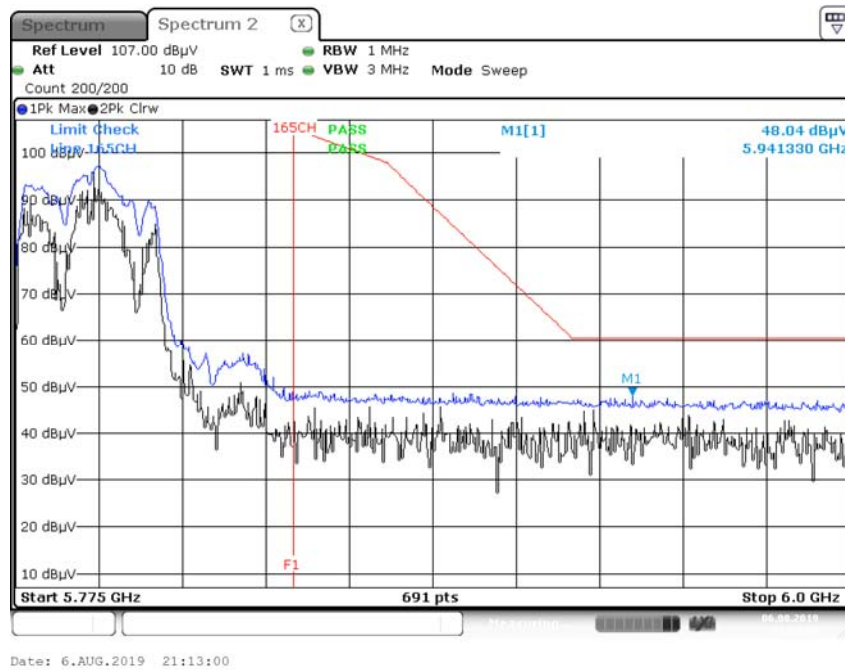
Peak Reading (802.11n_HT20, Ch.165, Z-V)



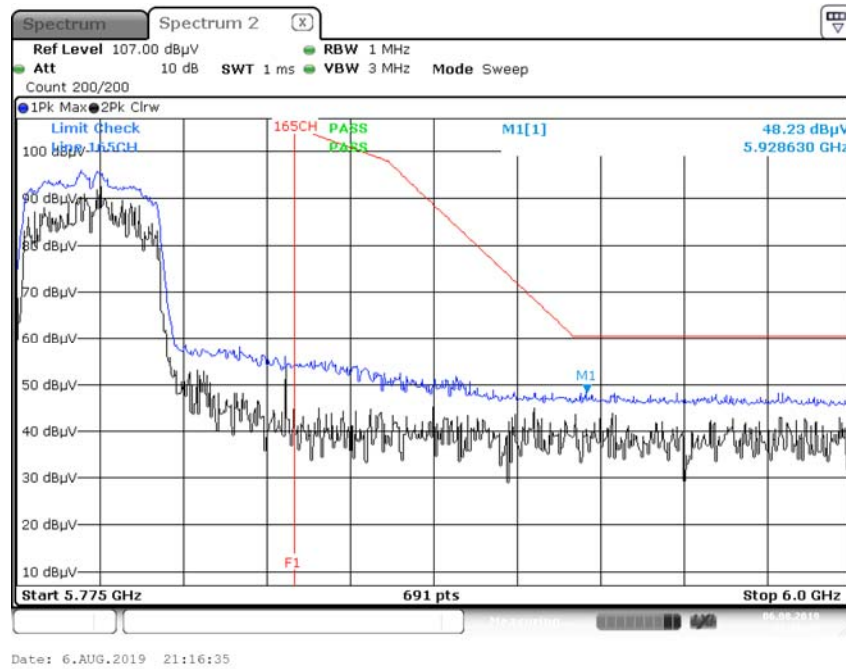
Peak Reading (802.11ac_VHT20, Ch.165, Z-V)



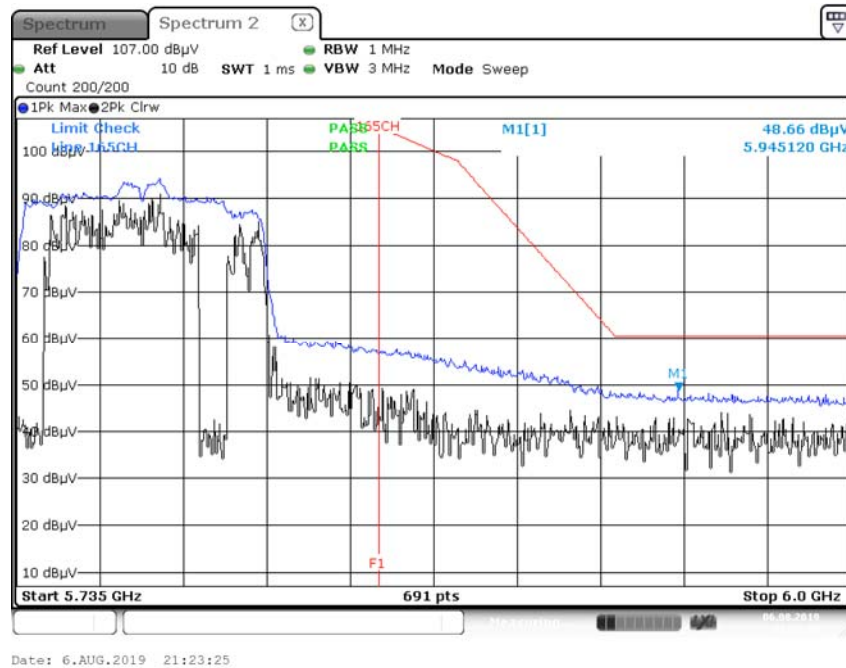
Peak Reading (802.11n_HT40, Ch.159, Z-V)



Peak Reading (802.11ac_VHT40, Ch.159, Z-V)



Peak Reading (802.11ac_VHT80, Ch.155, Z-V)



10.10 POWERLINE CONDUCTED EMISSIONS

Conducted Emissions (Line 1)

5G_L1

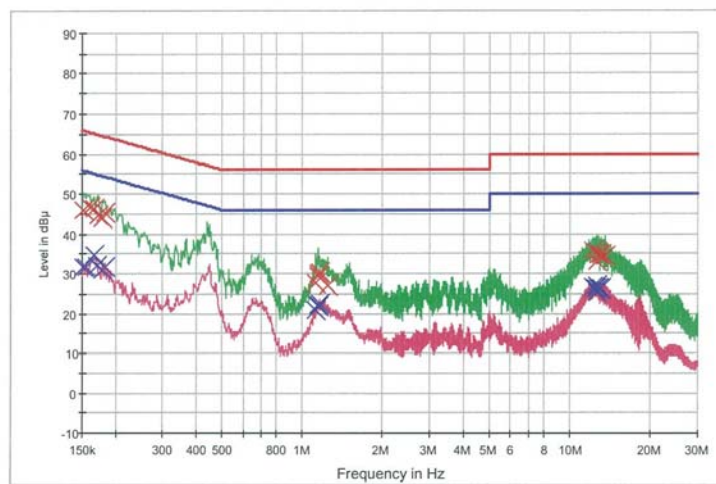
1 / 2

HCT TEST Report

Common Information

EUT: SM-A908B
Manufacturer: SAMSUNG
Test Site: SHIELD ROOM
Operating Conditions: 5G Mode_L1

FCC CLASS B_Exten Cable



— FCC CLASS B_QP — FCC CLASS B_AV — Preview Result 1-PK+
— Preview Result 2-AVG × Final Result 1-QPK × Final Result 2-CAV

Final Result 1

Frequency (MHz)	QuasiPeak (dBuV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.152000	45.8	9.000	Off	L1	9.7	20.1	65.9
0.160000	46.5	9.000	Off	L1	9.7	18.9	65.5
0.166000	46.2	9.000	Off	L1	9.7	19.0	65.2
0.172000	44.4	9.000	Off	L1	9.7	20.4	64.9
0.178000	43.9	9.000	Off	L1	9.7	20.7	64.6
0.184000	45.2	9.000	Off	L1	9.7	19.1	64.3
1.128000	27.8	9.000	Off	L1	9.8	28.2	56.0
1.142000	30.1	9.000	Off	L1	9.8	25.9	56.0
1.146000	29.3	9.000	Off	L1	9.8	26.7	56.0
1.154000	29.3	9.000	Off	L1	9.8	26.7	56.0
1.164000	30.2	9.000	Off	L1	9.8	25.8	56.0
1.242000	27.1	9.000	Off	L1	9.9	28.9	56.0
12.224000	35.8	9.000	Off	L1	10.3	24.2	60.0
12.570000	33.2	9.000	Off	L1	10.3	26.8	60.0
12.588000	35.3	9.000	Off	L1	10.3	24.7	60.0
12.848000	34.7	9.000	Off	L1	10.3	25.3	60.0
13.040000	34.8	9.000	Off	L1	10.3	25.2	60.0
13.558000	34.5	9.000	Off	L1	10.4	25.5	60.0

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5G_L1

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Final Result 2

Frequency (MHz)	CAverage (dBuV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.152000	31.7	9.000	Off	L1	9.7	24.2	55.9
0.156000	31.7	9.000	Off	L1	9.7	23.9	55.7
0.166000	34.7	9.000	Off	L1	9.7	20.5	55.2
0.170000	32.0	9.000	Off	L1	9.7	23.0	55.0
0.178000	31.1	9.000	Off	L1	9.7	23.5	54.6
0.184000	31.8	9.000	Off	L1	9.7	22.5	54.3
1.128000	20.9	9.000	Off	L1	9.8	25.1	46.0
1.142000	22.1	9.000	Off	L1	9.8	23.9	46.0
1.146000	22.0	9.000	Off	L1	9.8	24.0	46.0
1.150000	22.0	9.000	Off	L1	9.8	24.0	46.0
1.154000	22.2	9.000	Off	L1	9.8	23.8	46.0
1.164000	22.7	9.000	Off	L1	9.8	23.3	46.0
12.224000	26.7	9.000	Off	L1	10.3	23.3	50.0
12.538000	26.3	9.000	Off	L1	10.3	23.7	50.0
12.570000	25.2	9.000	Off	L1	10.3	24.8	50.0
12.588000	26.9	9.000	Off	L1	10.3	23.1	50.0
12.848000	26.4	9.000	Off	L1	10.3	23.6	50.0
13.040000	26.2	9.000	Off	L1	10.3	23.8	50.0

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Conducted Emissions (Line 2)

5G_N

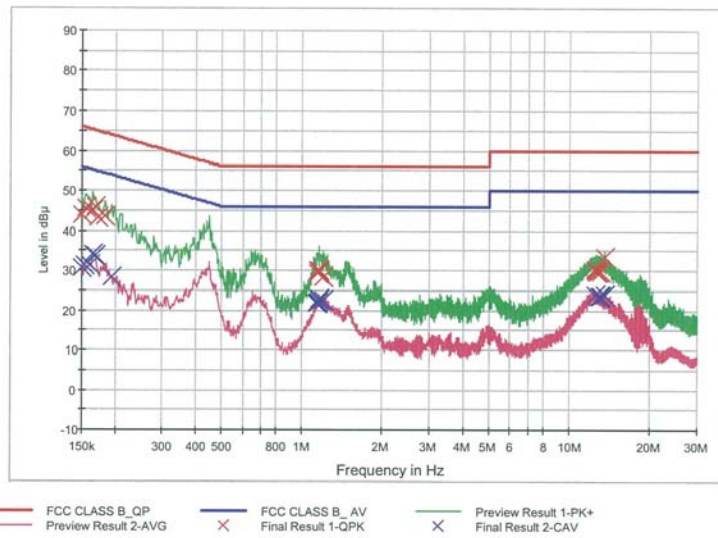
1 / 2

HCT TEST Report

Common Information

EUT: SM-A908B
 Manufacturer: SAMSUNG
 Test Site: SHIELD ROOM
 Operating Conditions: 5G Mode_N

FCC CLASS B_Exten Cable



Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.150000	43.8	9.000	Off	N	9.8	22.2	66.0
0.156000	45.5	9.000	Off	N	9.8	20.1	65.7
0.164000	45.0	9.000	Off	N	9.8	20.2	65.3
0.168000	45.8	9.000	Off	N	9.8	19.3	65.1
0.172000	43.2	9.000	Off	N	9.8	21.7	64.9
0.184000	43.7	9.000	Off	N	9.8	20.7	64.3
1.144000	30.0	9.000	Off	N	10.0	26.0	56.0
1.148000	29.2	9.000	Off	N	10.0	26.8	56.0
1.162000	30.1	9.000	Off	N	10.0	25.9	56.0
1.166000	29.6	9.000	Off	N	10.0	26.4	56.0
1.196000	28.2	9.000	Off	N	10.0	27.8	56.0
1.200000	28.2	9.000	Off	N	10.0	27.8	56.0
12.442000	30.0	9.000	Off	N	10.6	30.0	60.0
12.452000	30.3	9.000	Off	N	10.6	29.7	60.0
12.564000	29.5	9.000	Off	N	10.6	30.5	60.0
12.786000	29.8	9.000	Off	N	10.6	30.2	60.0
13.072000	29.6	9.000	Off	N	10.6	30.4	60.0
13.560000	33.3	9.000	Off	N	10.6	26.7	60.0

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5G_N

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Final Result 2

Frequency (MHz)	CAverage (dBuV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.150000	30.7	9.000	Off	N	9.8	25.3	56.0
0.154000	31.3	9.000	Off	N	9.8	24.5	55.8
0.160000	31.2	9.000	Off	N	9.8	24.2	55.5
0.164000	34.0	9.000	Off	N	9.8	21.2	55.3
0.168000	33.7	9.000	Off	N	9.8	21.4	55.1
0.194000	28.4	9.000	Off	N	9.8	25.4	53.9
1.140000	22.0	9.000	Off	N	10.0	24.0	46.0
1.144000	22.2	9.000	Off	N	10.0	23.8	46.0
1.148000	21.9	9.000	Off	N	10.0	24.1	46.0
1.162000	22.8	9.000	Off	N	10.0	23.2	46.0
1.166000	22.7	9.000	Off	N	10.0	23.3	46.0
1.200000	22.4	9.000	Off	N	10.0	23.6	46.0
12.496000	23.9	9.000	Off	N	10.6	26.1	50.0
12.902000	23.5	9.000	Off	N	10.6	26.5	50.0
12.954000	23.7	9.000	Off	N	10.6	26.3	50.0
13.042000	23.4	9.000	Off	N	10.6	26.6	50.0
13.072000	23.4	9.000	Off	N	10.6	26.6	50.0
13.560000	24.0	9.000	Off	N	10.6	21.7	50.0

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11. LIST OF TEST EQUIPMENT

Conducted Test

Manufacturer	Model / Equipment	Calibration Date	Calibration Interval	Serial No.
Rohde & Schwarz	ENV216 / LISN	12/12/2018	Annual	102245
Rohde & Schwarz	ESCI / Test Receiver	06/18/2019	Annual	100584
ESPAC	SU-642 /Temperature Chamber	03/12/2019	Annual	0093008124
Agilent	N9020A / Signal Analyzer	05/23/2019	Annual	MY51110085
Agilent	N9030A / Signal Analyzer	11/20/2018	Annual	MY49431210
Agilent	N1911A / Power Meter	04/10/2019	Annual	MY45100523
Agilent	N1921A / Power Sensor	04/10/2019	Annual	MY52260025
Agilent	87300B / Directional Coupler	11/20/2018	Annual	3116A03621
Hewlett Packard	11667B / Power Splitter	05/24/2019	Annual	05001
Hewlett Packard	E3632A / DC Power Supply	06/18/2019	Annual	KR75303960
WEINSCHEL	2-20 / Attenuator(20 dB)	10/26/2018	Annual	BR0592
Rohde & Schwarz	EMC32 / Software	N/A	N/A	N/A
HCT CO., LTD.	FCC WLAN&BT&BLE Conducted Test Software v3.0	N/A	N/A	N/A
Rohde & Schwarz	CBT / Bluetooth Tester	05/16/2019	Annual	100422

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

Manufacturer	Model / Equipment	Calibration Date	Calibration Interval	Serial No.
Innco system	CO3000 / Controller(Antenna mast)	N/A	N/A	CO3000-4p
Innco system	MA4640/800-XP-EP / Antenna Position Tower	N/A	N/A	N/A
Audix	EM1000 / Controller	N/A	N/A	060520
Audix	Turn Table	N/A	N/A	N/A
Rohde & Schwarz	Loop Antenna	08/23/2018	Biennial	1513-175
Schwarzbeck	VULB 9168 / Hybrid Antenna	03/22/2019	Biennial	760
Schwarzbeck	VULB 9160 / TRILOG Antenna	08/09/2018	Biennial	9160-3368
Schwarzbeck	BBHA 9120D / Horn Antenna	08/01/2019	Biennial	1151
Schwarzbeck	BBHA 9120D / Horn Antenna	04/29/2019	Biennial	937
Schwarzbeck	BBHA9170 / Horn Antenna(15 GHz ~ 40 GHz)	12/04/2017	Biennial	BBHA9170541
Rohde & Schwarz	FSP(9 kHz ~ 30 GHz) / Spectrum Analyzer	09/03/2018	Annual	100688
Rohde & Schwarz	FSV40-N / Spectrum Analyzer	09/28/2018	Annual	101068-SZ
Agilent	N9020A / Signal Analyzer	05/23/2019	Annual	MY51110085
Wainwright Instruments	WHK3.0/18G-10EF / High Pass Filter	05/23/2019	Annual	8
Wainwright Instruments	WHKX7.0/18G-8SS / High Pass Filter	05/03/2019	Annual	29
Wainwright Instruments	WRCJV2400/2483.5-2370/2520-60/12SS / Band Reject Filter	06/19/2019	Annual	2
Wainwright Instruments	WRCJV5100/5850-40/50-8EEK / Band Reject Filter	01/03/2019	Annual	2
Api tech.	18B-03 / Attenuator (3 dB)	06/04/2019	Annual	1
H+S	5910-N-50-010 / Attenuator(10 dB)	11/08/2018	Annual	NONE
CERNEX	CBLU1183540 / Power Amplifier	07/01/2019	Annual	22964
CERNEX	CBL06185030 / Power Amplifier	07/01/2019	Annual	22965
CERNEX	CBL18265035 / Power Amplifier	01/03/2019	Annual	22966
CERNEX	CBL26405040 / Power Amplifier	06/18/2019	Annual	25956
TESCOM	TC-3000C / Bluetooth Tester	03/26/2019	Annual	3000C000276

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.

12. ANNEX A_ TEST SETUP PHOTO

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

No.	Description
1	HCT-RF-1908-FC038-P