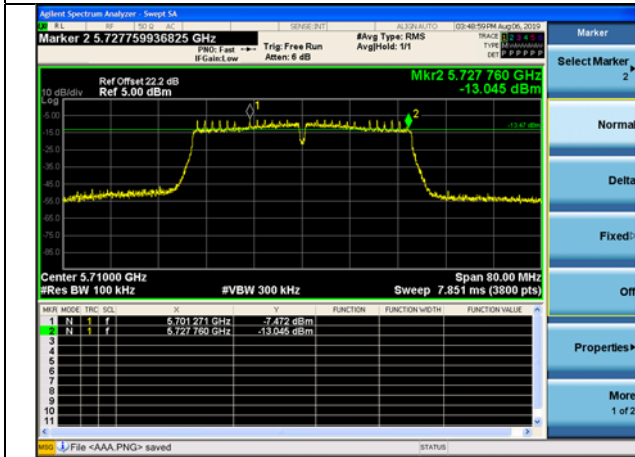
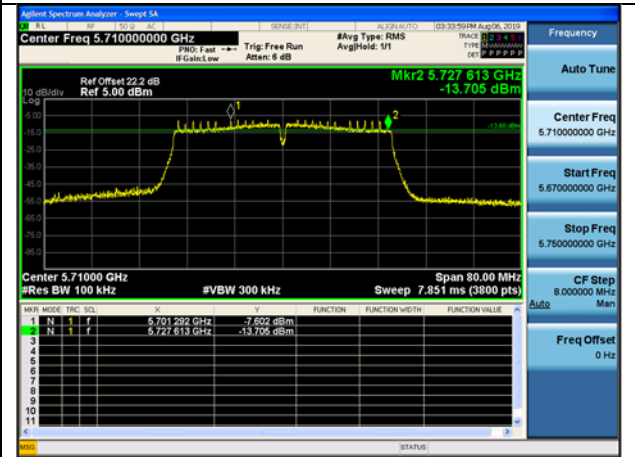


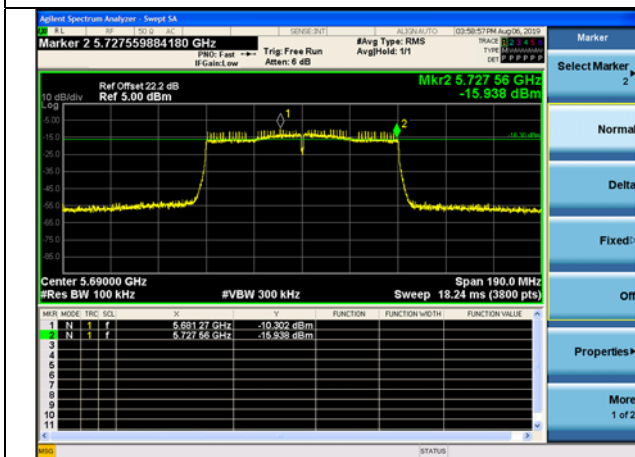
802.11n_HT40 CH.142



802.11ac_VHT40 CH.142



802.11ac_VHT80 CH.138



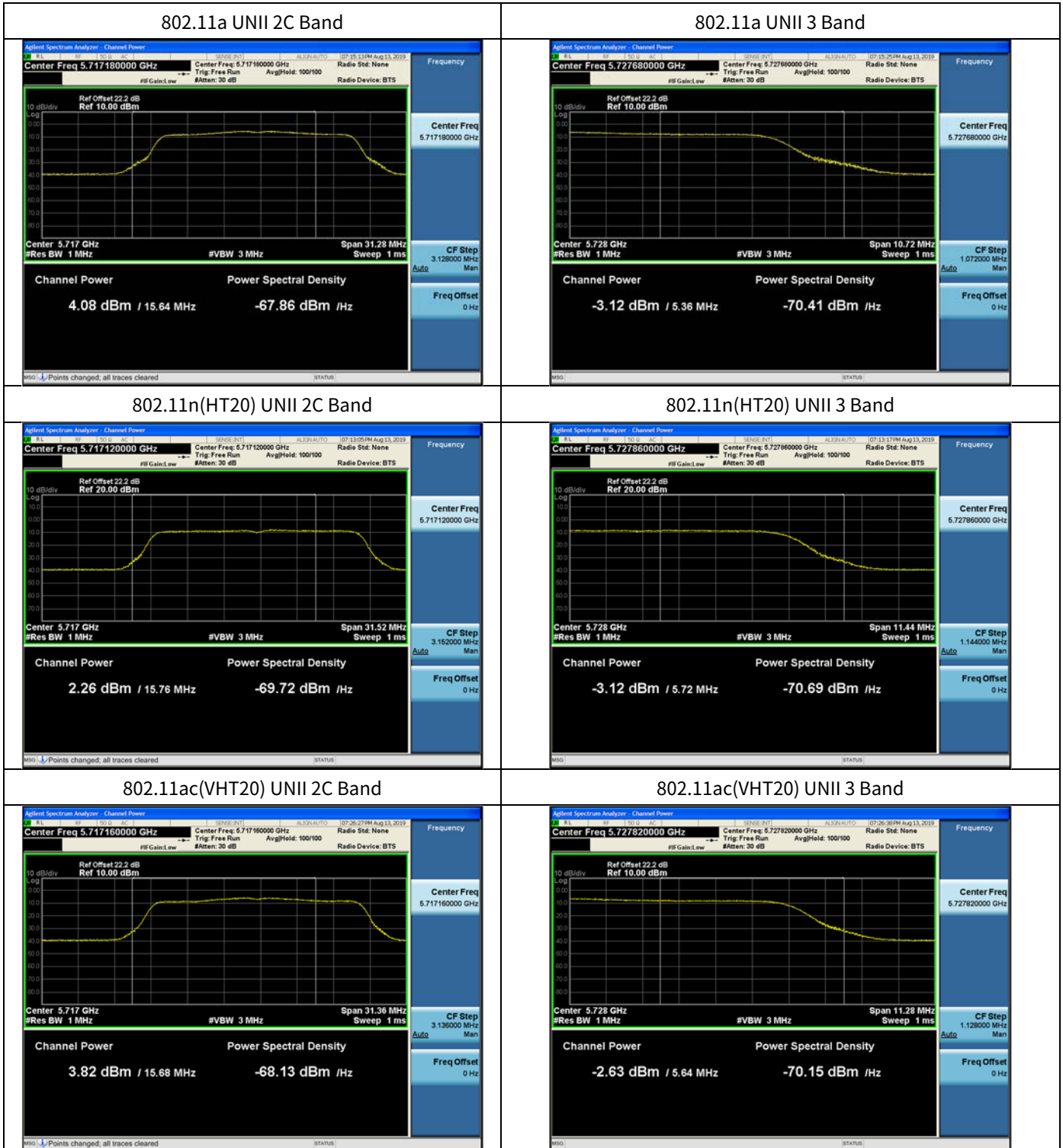
10.7.3 Output Power

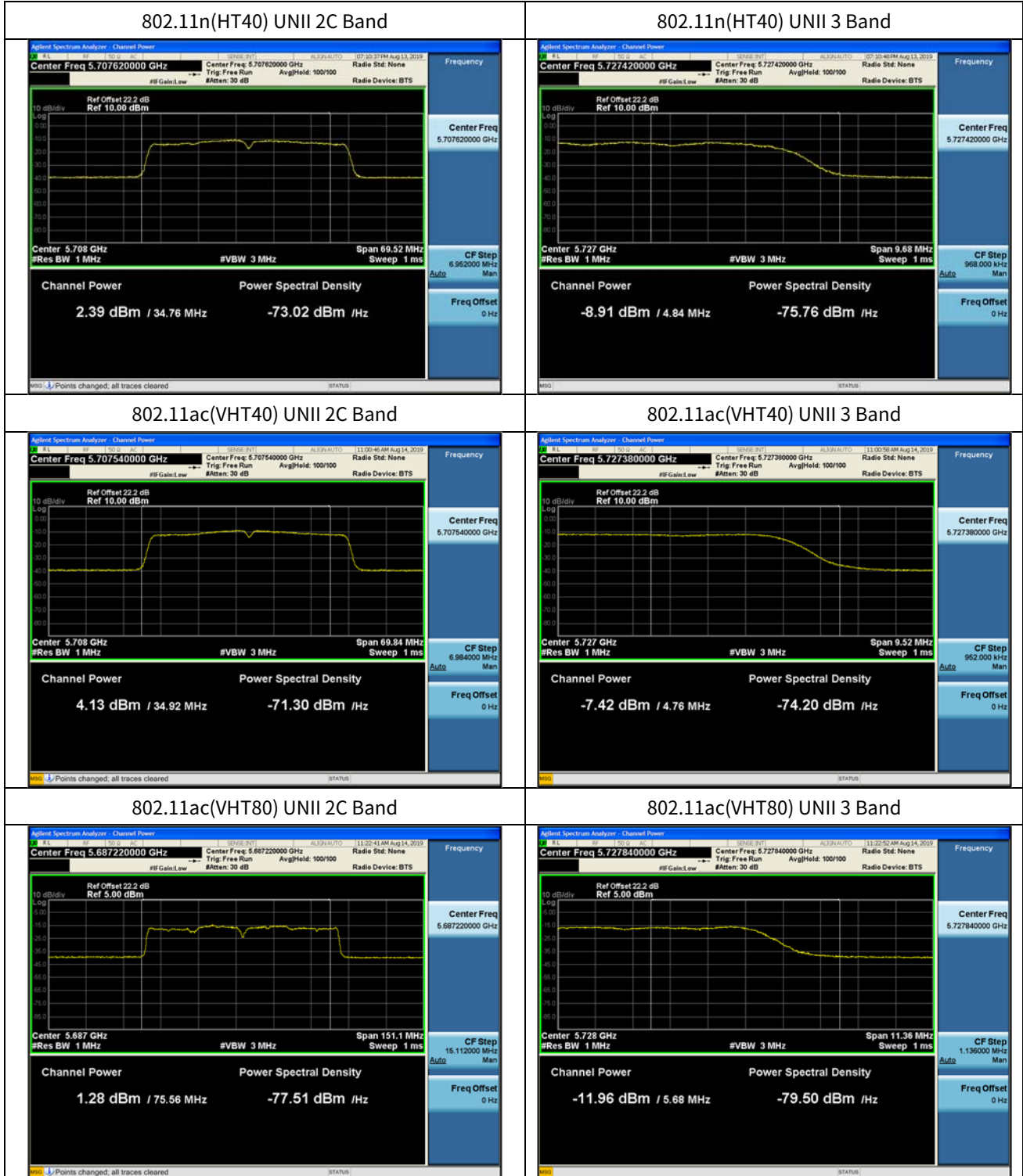
Mode	Frequency [MHz]	Channel	Measured Power (dBm)	Duty Cycle Factor (dB)	Total Power (dBm)	Limit (dBm)
802.11a	5720	144	4.08	0.214	4.29	24.22
802.11n(HT20)	(UNII 2C Band)		2.26	1.373	3.63	24.32
802.11ac(VHT20)			3.82	1.342	5.16	24.29
802.11a	5720	144	-3.12	0.214	-2.91	30.00
802.11n(HT20)	(UNII 3 Band)		-3.12	1.373	-1.75	30.00
802.11ac(VHT20)			-2.63	1.342	-1.29	30.00

Mode	Frequency [MHz]	Channel	Measured Power (dBm)	Duty Cycle Factor (dB)	Total Power (dBm)	Limit (dBm)
802.11n(HT40)	5710	142	2.39	2.536	4.93	26.98
802.11ac(VHT40)	(UNII 2C Band)		4.13	0.803	4.93	26.99
802.11n(HT40)	5710	142	-8.91	2.536	-6.37	30.00
802.11ac(VHT40)	(UNII 3 Band)		-7.42	0.803	-6.62	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	1.28	3.326	4.61	30.10
	5690 (UNII 3 Band)	138	-11.96	3.326	-8.63	30.00

Test Plots





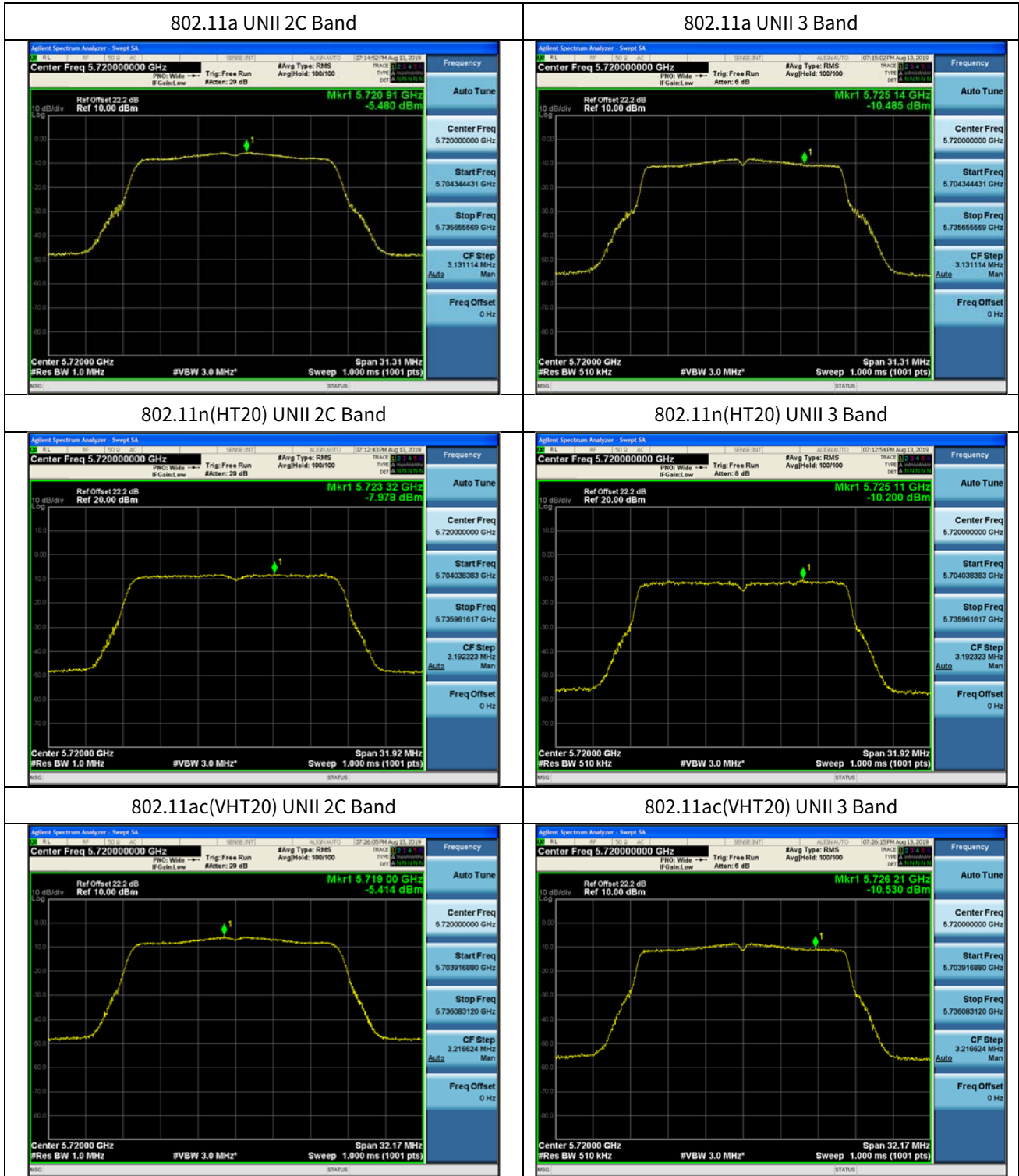
10.7.4 Power Spectral Density

Mode	Frequency [MHz]	Channel	Measured Density (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)	Limit (dBm)
802.11a	5720 (UNII 2C Band)	144	-5.480	0.214	-5.266	11.00
802.11n(HT20)			-7.978	1.373	-6.605	11.00
802.11ac(VHT20)			-5.414	1.342	-4.072	11.00
802.11a	5720 (UNII 3 Band)	144	-10.485	0.214	-10.271	30.00
802.11n(HT20)			-10.200	1.373	-8.827	30.00
802.11ac(VHT20)			-10.530	1.342	-9.188	30.00

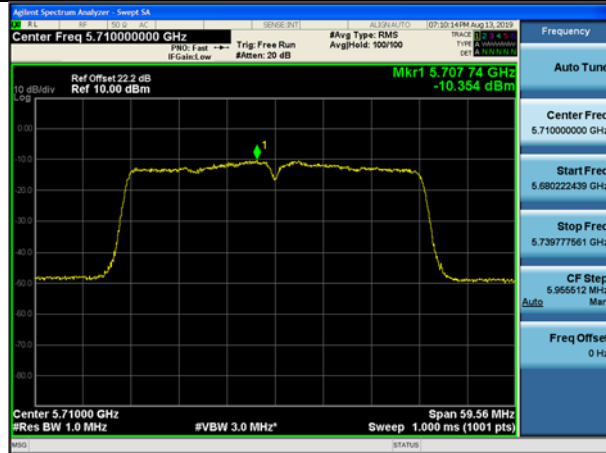
Mode	Frequency [MHz]	Channel	Measured Density (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)	Limit (dBm)
802.11n(HT40)	5710 (UNII 2C Band)	142	-10.354	2.536	-7.818	11.00
802.11ac(VHT40)			-9.132	0.803	-8.329	11.00
802.11n(HT40)	5710 (UNII 3 Band)	142	-16.042	2.536	-13.506	30.00
802.11ac(VHT40)			-14.250	0.803	-13.447	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	-15.352	3.326	-12.026	11.00
	5690 (UNII 3 Band)	138	-18.602	3.326	-15.276	30.00

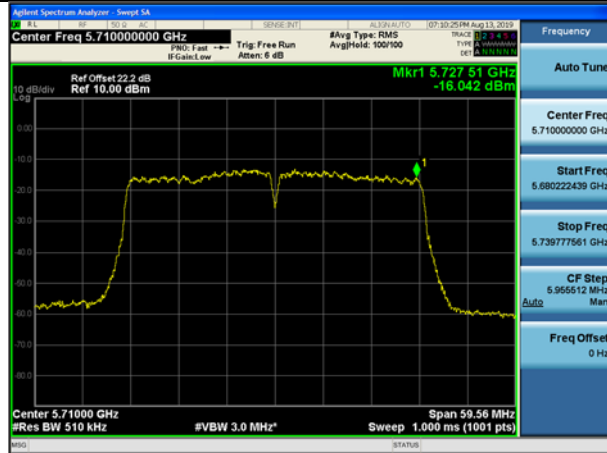
Test Plots



802.11n(HT40) UNII 2C Band



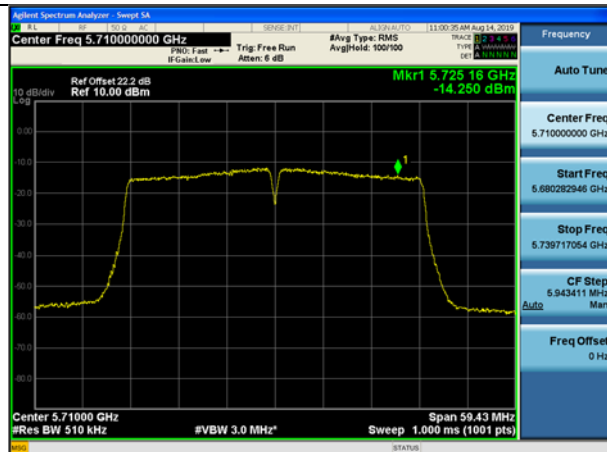
802.11n(HT40) UNII 3 Band



802.11ac(VHT40) UNII 2C Band



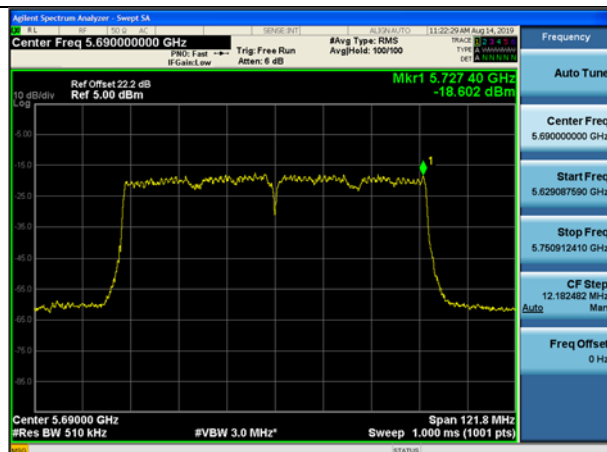
802.11ac(VHT40) UNII 3 Band



802.11ac(VHT80) UNII 2C Band



802.11ac(VHT80) UNII 3 Band



10.8 RADIATED SPURIOUS EMISSIONS

Frequency Range : 9 kHz – 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 = $40 \cdot \log(\text{specific distance} / \text{test distance})$ (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 OFS 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	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
10360	48.86	4.10	V	52.96	68.20	15.24	PK
15540	47.51	5.36	V	52.87	73.98	21.11	PK
15540	34.05	5.36	V	39.41	53.98	14.57	AV
10360	48.96	4.10	H	53.06	68.20	15.14	PK
15540	47.60	5.36	H	52.96	73.98	21.02	PK
15540	34.10	5.36	H	39.46	53.98	14.52	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	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
10400	48.61	3.87	V	52.48	68.20	15.72	PK
15600	48.61	4.75	V	53.36	73.98	20.62	PK
15600	34.55	4.75	V	39.30	53.98	14.68	AV
10400	48.71	3.87	H	52.58	68.20	15.62	PK
15600	48.79	4.75	H	53.54	73.98	20.44	PK
15600	34.57	4.75	H	39.32	53.98	14.66	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	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
10480	48.43	4.52	V	52.95	68.20	15.25	PK
15720	47.62	3.58	V	51.20	73.98	22.78	PK
15720	34.53	3.58	V	38.11	53.98	15.87	AV
10480	48.51	4.52	H	53.03	68.20	15.17	PK
15720	47.72	3.58	H	51.30	73.98	22.68	PK
15720	34.60	3.58	H	38.18	53.98	15.80	AV

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	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
10360	48.73	4.10	V	52.83	68.20	15.37	PK
15540	47.81	5.36	V	53.17	73.98	20.81	PK
15540	34.31	5.36	V	39.67	53.98	14.31	AV
10360	48.99	4.10	H	53.09	68.20	15.11	PK
15540	47.84	5.36	H	53.20	73.98	20.78	PK
15540	34.50	5.36	H	39.86	53.98	14.12	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	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
10400	48.51	3.87	V	52.38	68.20	15.82	PK
15600	48.69	4.75	V	53.44	73.98	20.54	PK
15600	34.24	4.75	V	38.99	53.98	14.99	AV
10400	48.69	3.87	H	52.56	68.20	15.64	PK
15600	48.82	4.75	H	53.57	73.98	20.41	PK
15600	34.39	4.75	H	39.14	53.98	14.84	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	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
10480	48.54	4.52	V	53.06	68.20	15.14	PK
15720	47.73	3.58	V	51.31	73.98	22.67	PK
15720	34.38	3.58	V	37.96	53.98	16.02	AV
10480	48.66	4.52	H	53.18	68.20	15.02	PK
15720	47.85	3.58	H	51.43	73.98	22.55	PK
15720	34.55	3.58	H	38.13	53.98	15.85	AV

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	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
10360	48.77	4.10	V	52.87	68.20	15.33	PK
15540	47.52	5.36	V	52.88	73.98	21.10	PK
15540	34.36	5.36	V	39.72	53.98	14.26	AV
10360	48.78	4.10	H	52.88	68.20	15.32	PK
15540	47.68	5.36	H	53.04	73.98	20.94	PK
15540	34.49	5.36	H	39.85	53.98	14.13	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	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
10400	48.28	3.87	V	52.15	68.20	16.05	PK
15600	48.56	4.75	V	53.31	73.98	20.67	PK
15600	34.20	4.75	V	38.95	53.98	15.03	AV
10400	48.54	3.87	H	52.41	68.20	15.79	PK
15600	48.77	4.75	H	53.52	73.98	20.46	PK
15600	34.29	4.75	H	39.04	53.98	14.94	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	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
10480	48.37	4.52	V	52.89	68.20	15.31	PK
15720	47.65	3.58	V	51.23	73.98	22.75	PK
15720	34.37	3.58	V	37.95	53.98	16.03	AV
10480	48.58	4.52	H	53.10	68.20	15.10	PK
15720	47.91	3.58	H	51.49	73.98	22.49	PK
15720	34.52	3.58	H	38.10	53.98	15.88	AV

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	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
10380	48.32	4.09	V	52.41	68.20	15.79	PK
15570	48.34	4.73	V	53.07	73.98	20.91	PK
15570	33.96	4.73	V	38.69	53.98	15.29	AV
10380	48.51	4.09	H	52.60	68.20	15.60	PK
15570	48.58	4.73	H	53.31	73.98	20.67	PK
15570	34.06	4.73	H	38.79	53.98	15.19	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	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
10460	48.18	4.54	V	52.72	68.20	15.48	PK
15690	47.56	3.69	V	51.25	73.98	22.73	PK
15690	33.99	3.69	V	37.68	53.98	16.30	AV
10460	48.27	4.54	H	52.81	68.20	15.39	PK
15690	47.50	3.69	H	51.19	73.98	22.79	PK
15690	34.03	3.69	H	37.72	53.98	16.26	AV

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	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
10380	48.39	4.09	V	52.48	68.20	15.72	PK
15570	48.48	4.73	V	53.21	73.98	20.77	PK
15570	33.91	4.73	V	38.64	53.98	15.34	AV
10380	48.46	4.09	H	52.55	68.20	15.65	PK
15570	48.53	4.73	H	53.26	73.98	20.72	PK
15570	33.96	4.73	H	38.69	53.98	15.29	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	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
10460	48.15	4.54	V	52.69	68.20	15.51	PK
15690	47.57	3.69	V	51.26	73.98	22.72	PK
15690	34.05	3.69	V	37.74	53.98	16.24	AV
10460	48.19	4.54	H	52.73	68.20	15.47	PK
15690	47.58	3.69	H	51.27	73.98	22.71	PK
15690	34.11	3.69	H	37.80	53.98	16.18	AV

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	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
10420	47.96	3.79	V	51.75	68.20	16.45	PK
15630	47.96	4.02	V	51.98	73.98	22.00	PK
15630	36.21	4.02	V	40.23	53.98	13.75	AV
10420	48.08	3.79	H	51.87	68.20	16.33	PK
15630	48.01	4.02	H	52.03	73.98	21.95	PK
15630	36.29	4.02	H	40.31	53.98	13.67	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	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
10520	49.63	4.70	V	54.33	68.20	13.87	PK
15780	48.09	3.76	V	51.85	73.98	22.13	PK
15780	33.72	3.76	V	37.48	53.98	16.50	AV
10520	49.26	4.70	H	53.96	68.20	14.24	PK
15780	48.02	3.76	H	51.78	73.98	22.20	PK
15780	33.54	3.76	H	37.30	53.98	16.68	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	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
10600	49.05	4.27	V	53.32	73.98	20.66	PK
10600	35.53	4.27	V	39.80	53.98	14.18	AV
15900	47.25	4.58	V	51.83	73.98	22.15	PK
15900	33.92	4.58	V	38.50	53.98	15.48	AV
10600	49.02	4.27	H	53.29	73.98	20.69	PK
10600	35.42	4.27	H	39.69	53.98	14.29	AV
15900	47.15	4.58	H	51.73	73.98	22.25	PK
15900	33.57	4.58	H	38.15	53.98	15.83	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 G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
10640	48.93	4.40	V	53.33	73.98	20.65	PK
10640	35.67	4.40	V	40.07	53.98	13.91	AV
15960	47.64	4.03	V	51.67	73.98	22.31	PK
15960	34.28	4.03	V	38.31	53.98	15.67	AV
10640	48.90	4.40	H	53.30	73.98	20.68	PK
10640	35.46	4.40	H	39.86	53.98	14.12	AV
15960	47.54	4.03	H	51.57	73.98	22.41	PK
15960	34.10	4.03	H	38.13	53.98	15.85	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	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
10520	49.39	4.70	V	54.09	68.20	14.11	PK
15780	48.04	3.76	V	51.80	73.98	22.18	PK
15780	33.29	3.76	V	37.05	53.98	16.93	AV
10520	49.56	4.70	H	54.26	68.20	13.94	PK
15780	48.11	3.76	H	51.87	73.98	22.11	PK
15780	33.58	3.76	H	37.34	53.98	16.64	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	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
10600	49.11	4.27	V	53.38	73.98	20.60	PK
10600	35.41	4.27	V	39.68	53.98	14.30	AV
15900	47.17	4.58	V	51.75	73.98	22.23	PK
15900	33.58	4.58	V	38.16	53.98	15.82	AV
10600	49.23	4.27	H	53.50	73.98	20.48	PK
10600	35.64	4.27	H	39.91	53.98	14.07	AV
15900	47.26	4.58	H	51.84	73.98	22.14	PK
15900	33.89	4.58	H	38.47	53.98	15.51	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	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
10640	48.62	4.40	V	53.02	73.98	20.96	PK
10640	35.46	4.40	V	39.86	53.98	14.12	AV
15960	47.39	4.03	V	51.42	73.98	22.56	PK
15960	34.38	4.03	V	38.41	53.98	15.57	AV
10640	48.81	4.40	H	53.21	73.98	20.77	PK
10640	35.81	4.40	H	40.21	53.98	13.77	AV
15960	47.57	4.03	H	51.60	73.98	22.38	PK
15960	34.59	4.03	H	38.62	53.98	15.36	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	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
10520	49.50	4.70	V	54.20	68.20	14.00	PK
15780	48.17	3.76	V	51.93	73.98	22.05	PK
15780	33.43	3.76	V	37.19	53.98	16.79	AV
10520	49.52	4.70	H	54.22	68.20	13.98	PK
15780	48.20	3.76	H	51.96	73.98	22.02	PK
15780	33.49	3.76	H	37.25	53.98	16.73	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	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
10600	49.05	4.27	V	53.32	73.98	20.66	PK
10600	35.45	4.27	V	39.72	53.98	14.26	AV
15900	47.21	4.58	V	51.79	73.98	22.19	PK
15900	33.62	4.58	V	38.20	53.98	15.78	AV
10600	49.16	4.27	H	53.43	73.98	20.55	PK
10600	35.48	4.27	H	39.75	53.98	14.23	AV
15900	47.31	4.58	H	51.89	73.98	22.09	PK
15900	33.73	4.58	H	38.31	53.98	15.67	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	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
10640	48.81	4.40	V	53.21	73.98	20.77	PK
10640	35.46	4.40	V	39.86	53.98	14.12	AV
15960	47.57	4.03	V	51.60	73.98	22.38	PK
15960	34.59	4.03	V	38.62	53.98	15.36	AV
10640	48.89	4.40	H	53.29	73.98	20.69	PK
10640	35.64	4.40	H	40.04	53.98	13.94	AV
15960	47.62	4.03	H	51.65	73.98	22.33	PK
15960	34.52	4.03	H	38.55	53.98	15.43	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	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
10540	48.37	5.03	V	53.40	68.20	14.80	PK
15810	47.39	4.69	V	52.08	73.98	21.90	PK
15810	34.11	4.69	V	38.80	53.98	15.18	AV
10540	48.50	5.03	H	53.53	68.20	14.67	PK
15810	47.45	4.69	H	52.14	73.98	21.84	PK
15810	34.24	4.69	H	38.93	53.98	15.05	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	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
10620	49.05	4.92	V	53.97	73.98	20.01	PK
10620	35.76	4.92	V	40.68	53.98	13.30	AV
15930	47.23	4.50	V	51.73	73.98	22.25	PK
15930	33.99	4.50	V	38.49	53.98	15.49	AV
10620	49.19	4.92	H	54.11	73.98	19.87	PK
10620	35.93	4.92	H	40.85	53.98	13.13	AV
15930	47.35	4.50	H	51.85	73.98	22.13	PK
15930	34.06	4.50	H	38.56	53.98	15.42	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	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
10540	48.29	5.03	V	53.32	68.20	14.88	PK
15810	47.33	4.69	V	52.02	73.98	21.96	PK
15810	34.19	4.69	V	38.88	53.98	15.10	AV
10540	48.36	5.03	H	53.39	68.20	14.81	PK
15810	47.39	4.69	H	52.08	73.98	21.90	PK
15810	34.22	4.69	H	38.91	53.98	15.07	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	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
10620	49.15	4.92	V	54.07	73.98	19.91	PK
10620	35.75	4.92	V	40.67	53.98	13.31	AV
15930	47.22	4.50	V	51.72	73.98	22.26	PK
15930	34.05	4.50	V	38.55	53.98	15.43	AV
10620	49.30	4.92	H	54.22	73.98	19.76	PK
10620	35.79	4.92	H	40.71	53.98	13.27	AV
15930	47.26	4.50	H	51.76	73.98	22.22	PK
15930	34.18	4.50	H	38.68	53.98	15.30	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	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
10580	49.22	4.02	V	53.24	68.20	14.96	PK
15870	47.31	5.51	V	52.82	73.98	21.16	PK
15870	35.97	5.51	V	41.48	53.98	12.50	AV
10580	49.37	4.02	H	53.39	68.20	14.81	PK
15870	47.38	5.51	H	52.89	73.98	21.09	PK
15870	36.05	5.51	H	41.56	53.98	12.42	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 G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
11000	48.21	4.29	V	52.50	73.98	21.48	PK
11000	35.01	4.29	V	39.30	53.98	14.68	AV
16500	47.14	6.22	V	53.36	68.20	14.84	PK
11000	48.33	4.29	H	52.62	73.98	21.36	PK
11000	35.02	4.29	H	39.31	53.98	14.67	AV
16500	47.16	6.22	H	53.38	68.20	14.82	PK

Band : UNII 2C
 Operation Mode: 802.11 a
 Transfer Rate: 6 Mbps
 Operating Frequency 5580 MHz
 Channel No. 116 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
11160	49.54	4.28	V	53.82	73.98	20.16	PK
11160	35.09	4.28	V	39.37	53.98	14.61	AV
16740	45.63	7.73	V	53.36	68.20	14.84	PK
11160	49.82	4.28	H	54.10	73.98	19.88	PK
11160	35.13	4.28	H	39.41	53.98	14.57	AV
16740	45.99	7.73	H	53.72	68.20	14.48	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 G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
11440	48.95	4.38	V	53.33	73.98	20.65	PK
11440	34.37	4.38	V	38.75	53.98	15.23	AV
17160	51.26	8.77	V	60.03	68.20	8.17	PK
11440	49.03	4.38	H	53.41	73.98	20.57	PK
11440	34.59	4.38	H	38.97	53.98	15.01	AV
17160	51.41	8.77	H	60.18	68.20	8.02	PK

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	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
11000	47.96	4.29	V	52.25	73.98	21.73	PK
11000	35.16	4.29	V	39.45	53.98	14.53	AV
16500	47.15	6.22	V	53.37	68.20	14.83	PK
11000	48.39	4.29	H	52.68	73.98	21.30	PK
11000	35.22	4.29	H	39.51	53.98	14.47	AV
16500	47.23	6.22	H	53.45	68.20	14.75	PK

Band : UNII 2C
 Operation Mode: 802.11 n(HT20)
 Transfer MCS Index: MCS0
 Operating Frequency: 5580 MHz
 Channel No. 116 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
11160	49.75	4.28	V	54.03	73.98	19.95	PK
11160	34.59	4.28	V	38.87	53.98	15.11	AV
16740	45.34	7.73	V	53.07	68.20	15.13	PK
11160	49.76	4.28	H	54.04	73.98	19.94	PK
11160	34.65	4.28	H	38.93	53.98	15.05	AV
16740	45.81	7.73	H	53.54	68.20	14.66	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	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
11440	49.05	4.38	V	53.43	73.98	20.55	PK
11440	34.36	4.38	V	38.74	53.98	15.24	AV
17160	51.27	8.77	V	60.04	68.20	8.16	PK
11440	49.11	4.38	H	53.49	73.98	20.49	PK
11440	34.53	4.38	H	38.91	53.98	15.07	AV
17160	51.39	8.77	H	60.16	68.20	8.04	PK

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	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
11000	48.49	4.29	V	52.78	73.98	21.20	PK
11000	35.05	4.29	V	39.34	53.98	14.64	AV
16500	47.18	6.22	V	53.40	68.20	14.80	PK
11000	48.55	4.29	H	52.84	73.98	21.14	PK
11000	35.19	4.29	H	39.48	53.98	14.50	AV
16500	47.26	6.22	H	53.48	68.20	14.72	PK

Band : UNII 2C
 Operation Mode: 802.11 ac(VHT20)
 Transfer MCS Index: MCS0
 Operating Frequency: 5580 MHz
 Channel No. 116 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
11160	49.79	4.28	V	54.07	73.98	19.91	PK
11160	34.81	4.28	V	39.09	53.98	14.89	AV
16740	45.56	7.73	V	53.29	68.20	14.91	PK
11160	49.82	4.28	H	54.10	73.98	19.88	PK
11160	34.86	4.28	H	39.14	53.98	14.84	AV
16740	45.69	7.73	H	53.42	68.20	14.78	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	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
11440	49.47	4.38	V	53.85	73.98	20.13	PK
11440	34.55	4.38	V	38.93	53.98	15.05	AV
17160	52.99	8.77	V	61.76	68.20	6.44	PK
11440	49.50	4.38	H	53.88	73.98	20.10	PK
11440	34.61	4.38	H	38.99	53.98	14.99	AV
17160	53.66	8.77	H	62.43	68.20	5.77	PK

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	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
11020	48.55	4.58	V	53.13	73.98	20.85	PK
11020	35.05	4.58	V	39.63	53.98	14.35	AV
16530	46.85	6.22	V	53.07	68.20	15.13	PK
11020	48.67	4.58	H	53.25	73.98	20.73	PK
11020	35.19	4.58	H	39.77	53.98	14.21	AV
16530	46.93	6.22	H	53.15	68.20	15.05	PK

Band : UNII 2C
 Operation Mode: 802.11 n(HT40)
 Transfer MCS Index: MCS0
 Operating Frequency: 5550 MHz
 Channel No. 110 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
11100	48.22	5.04	V	53.26	73.98	20.72	PK
11100	34.96	5.04	V	40.00	53.98	13.98	AV
16650	47.54	7.21	V	54.75	68.20	13.45	PK
11100	48.34	5.04	H	53.38	73.98	20.60	PK
11100	35.03	5.04	H	40.07	53.98	13.91	AV
16650	47.56	7.21	H	54.77	68.20	13.43	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	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
11420	48.05	4.11	V	52.16	73.98	21.82	PK
11420	35.64	4.11	V	39.75	53.98	14.23	AV
17130	46.56	7.70	V	54.26	68.20	13.94	PK
11420	48.17	4.11	H	52.28	73.98	21.70	PK
11420	35.75	4.11	H	39.86	53.98	14.12	AV
17130	46.64	7.70	H	54.34	68.20	13.86	PK

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	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
11020	48.45	4.58	V	53.03	73.98	20.95	PK
11020	35.16	4.58	V	39.74	53.98	14.24	AV
16530	46.86	6.22	V	53.08	68.20	15.12	PK
11020	48.55	4.58	H	53.13	73.98	20.85	PK
11020	35.26	4.58	H	39.84	53.98	14.14	AV
16530	46.99	6.22	H	53.21	68.20	14.99	PK

Band : UNII 2C
 Operation Mode: 802.11 ac(VHT40)
 Transfer MCS Index: MCS0
 Operating Frequency: 5550 MHz
 Channel No. 110 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
11100	48.24	5.04	V	53.28	73.98	20.70	PK
11100	35.05	5.04	V	40.09	53.98	13.89	AV
16650	47.58	7.21	V	54.79	68.20	13.41	PK
11100	48.26	5.04	H	53.30	73.98	20.68	PK
11100	35.14	5.04	H	40.18	53.98	13.80	AV
16650	47.61	7.21	H	54.82	68.20	13.38	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	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
11420	48.16	4.11	V	52.27	73.98	21.71	PK
11420	35.54	4.11	V	39.65	53.98	14.33	AV
17130	46.75	7.70	V	54.45	68.20	13.75	PK
11420	48.28	4.11	H	52.39	73.98	21.59	PK
11420	35.65	4.11	H	39.76	53.98	14.22	AV
17130	46.81	7.70	H	54.51	68.20	13.69	PK

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	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
11060	47.56	4.97	V	52.53	73.98	21.45	PK
11060	35.94	4.97	V	40.91	53.98	13.07	AV
16590	47.69	6.79	V	54.48	68.20	13.72	PK
11060	47.81	4.97	H	52.78	73.98	21.20	PK
11060	36.00	4.97	H	40.97	53.98	13.01	AV
16590	47.90	6.79	H	54.69	68.20	13.51	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	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
11380	48.52	4.20	V	52.72	73.98	21.26	PK
11380	34.68	4.20	V	38.88	53.98	15.10	AV
17070	46.86	8.73	V	55.59	68.20	12.61	PK
11380	48.61	4.20	H	52.81	73.98	21.17	PK
11380	34.77	4.20	H	38.97	53.98	15.01	AV
17070	47.41	8.73	H	56.14	68.20	12.06	PK

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

Frequency [MHz]	Reading dBuV	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
11490	48.34	4.19	V	52.53	73.98	21.45	PK
11490	34.71	4.19	V	38.90	53.98	15.08	AV
17235	50.26	9.09	V	59.35	68.20	8.85	PK
11490	48.55	4.19	H	52.74	73.98	21.24	PK
11490	34.75	4.19	H	38.94	53.98	15.04	AV
17235	50.48	9.09	H	59.57	68.20	8.63	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	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
11570	47.68	4.83	V	52.51	73.98	21.47	PK
11570	33.76	4.83	V	38.59	53.98	15.39	AV
17355	53.07	9.81	V	62.88	68.20	5.32	PK
11570	47.98	4.83	H	52.81	73.98	21.17	PK
11570	33.97	4.83	H	38.80	53.98	15.18	AV
17355	53.59	9.81	H	63.40	68.20	4.80	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	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
11650	48.50	3.70	V	52.20	73.98	21.78	PK
11650	34.21	3.70	V	37.91	53.98	16.07	AV
17475	50.32	10.25	V	60.57	68.20	7.63	PK
11650	48.63	3.70	H	52.33	73.98	21.65	PK
11650	34.34	3.70	H	38.04	53.98	15.94	AV
17475	50.70	10.25	H	60.95	68.20	7.25	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	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
11490	48.89	4.19	V	53.08	73.98	20.90	PK
11490	34.86	4.19	V	39.05	53.98	14.93	AV
17235	52.21	9.09	V	61.30	68.20	6.90	PK
11490	49.25	4.19	H	53.44	73.98	20.54	PK
11490	34.97	4.19	H	39.16	53.98	14.82	AV
17235	52.46	9.09	H	61.55	68.20	6.65	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	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
11570	47.62	4.83	V	52.45	73.98	21.53	PK
11570	33.84	4.83	V	38.67	53.98	15.31	AV
17355	54.17	9.81	V	63.98	68.20	4.22	PK
11570	47.72	4.83	H	52.55	73.98	21.43	PK
11570	33.90	4.83	H	38.73	53.98	15.25	AV
17355	54.43	9.81	H	64.24	68.20	3.96	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	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
11650	47.57	3.70	V	51.27	73.98	22.71	PK
11650	34.19	3.70	V	37.89	53.98	16.09	AV
17475	51.96	10.25	V	62.21	68.20	5.99	PK
11650	47.98	3.70	H	51.68	73.98	22.30	PK
11650	34.31	3.70	H	38.01	53.98	15.97	AV
17475	52.11	10.25	H	62.36	68.20	5.84	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	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
11490	49.04	4.19	V	53.23	73.98	20.75	PK
11490	34.58	4.19	V	38.77	53.98	15.21	AV
17235	52.10	9.09	V	61.19	68.20	7.01	PK
11490	49.14	4.19	H	53.33	73.98	20.65	PK
11490	34.72	4.19	H	38.91	53.98	15.07	AV
17235	52.60	9.09	H	61.69	68.20	6.51	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	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
11570	48.29	4.83	V	53.12	73.98	20.86	PK
11570	33.85	4.83	V	38.68	53.98	15.30	AV
17355	53.87	9.81	V	63.68	68.20	4.52	PK
11570	48.33	4.83	H	53.16	73.98	20.82	PK
11570	33.94	4.83	H	38.77	53.98	15.21	AV
17355	54.17	9.81	H	63.98	68.20	4.22	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	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
11650	47.86	3.70	V	51.56	73.98	22.42	PK
11650	34.38	3.70	V	38.08	53.98	15.90	AV
17475	52.04	10.25	V	62.29	68.20	5.91	PK
11650	47.95	3.70	H	51.65	73.98	22.33	PK
11650	34.50	3.70	H	38.20	53.98	15.78	AV
17475	52.33	10.25	H	62.58	68.20	5.62	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	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
11510	48.71	4.20	V	52.91	73.98	21.07	PK
11510	35.48	4.20	V	39.68	53.98	14.30	AV
17265	46.76	9.64	V	56.40	68.20	11.80	PK
11510	48.76	4.20	H	52.96	73.98	21.02	PK
11510	35.55	4.20	H	39.75	53.98	14.23	AV
17265	46.89	9.64	H	56.53	68.20	11.67	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	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
11590	47.29	4.91	V	52.20	73.98	21.78	PK
11590	34.87	4.91	V	39.78	53.98	14.20	AV
17385	47.47	10.20	V	57.67	68.20	10.53	PK
11590	47.34	4.91	H	52.25	73.98	21.73	PK
11590	34.98	4.91	H	39.89	53.98	14.09	AV
17385	47.99	10.20	H	58.19	68.20	10.01	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	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
11510	48.55	4.20	V	52.75	73.98	21.23	PK
11510	35.45	4.20	V	39.65	53.98	14.33	AV
17265	46.61	9.64	V	56.25	68.20	11.95	PK
11510	48.62	4.20	H	52.82	73.98	21.16	PK
11510	35.48	4.20	H	39.68	53.98	14.30	AV
17265	46.76	9.64	H	56.40	68.20	11.80	PK

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

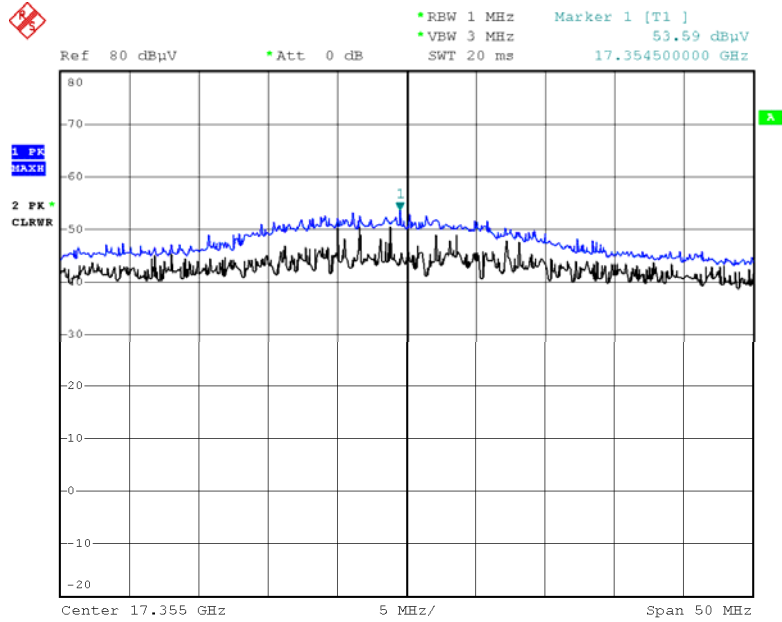
Frequency [MHz]	Reading dBuV	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
11590	47.46	4.91	V	52.37	73.98	21.61	PK
11590	34.96	4.91	V	39.87	53.98	14.11	AV
17385	47.69	10.20	V	57.89	68.20	10.31	PK
11590	47.52	4.91	H	52.43	73.98	21.55	PK
11590	35.02	4.91	H	39.93	53.98	14.05	AV
17385	47.78	10.20	H	57.98	68.20	10.22	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	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
11550	47.64	4.50	V	52.14	73.98	21.84	PK
11550	36.51	4.50	V	41.01	53.98	12.97	AV
17325	46.64	10.22	V	56.86	68.20	11.34	PK
11550	47.95	3.32	H	51.27	73.98	22.71	PK
11550	36.56	3.32	H	39.88	53.98	14.10	AV
17325	46.76	10.22	H	56.98	68.20	11.22	PK

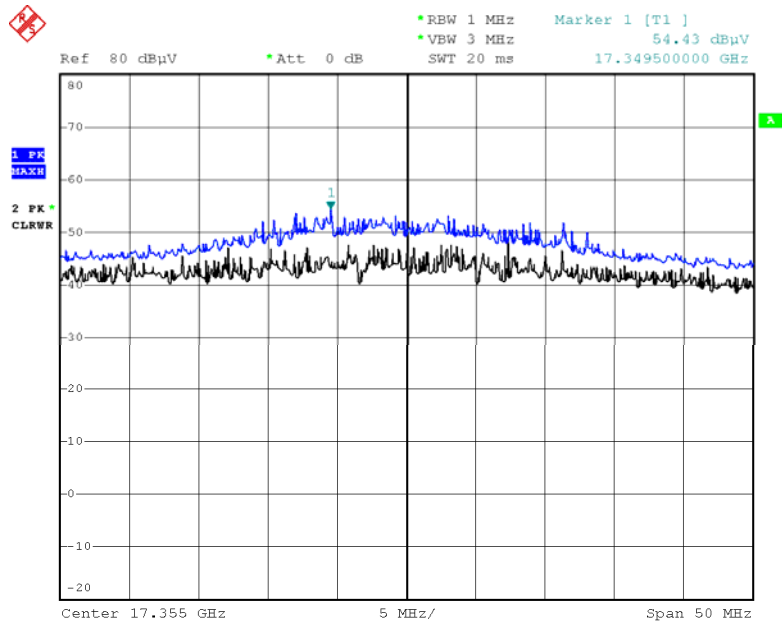
Test Plots

Peak Reading (802.11a, Ch.165 3rd Harmonic, X-H)



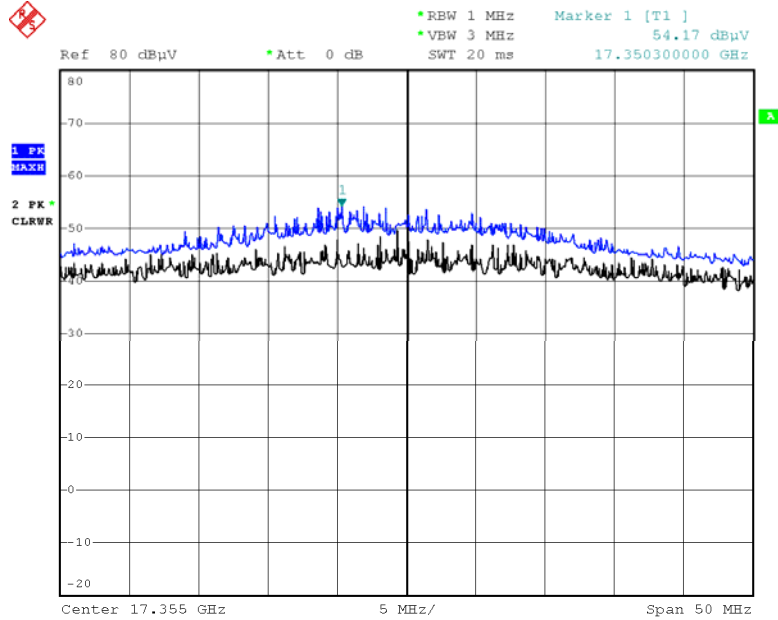
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Peak Reading (802.11n, Ch.165 3rd Harmonic, X-H)



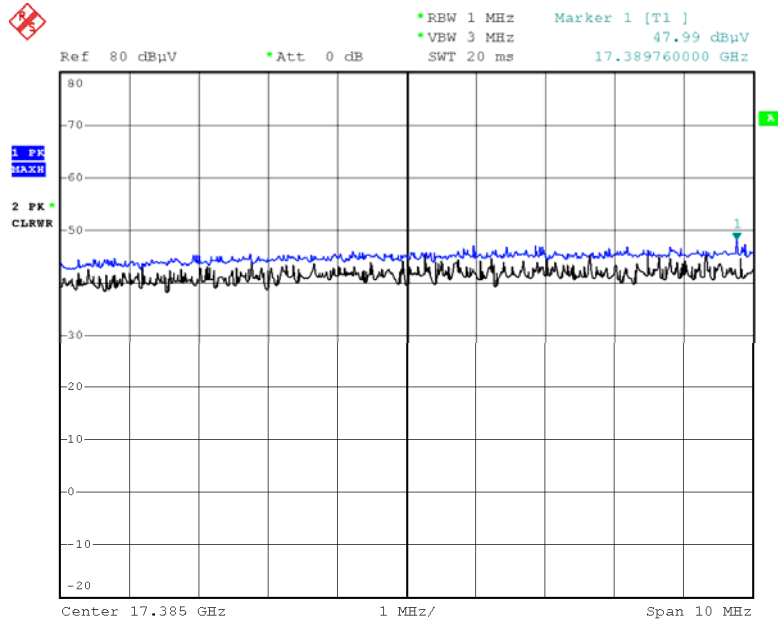
Date: 13.AUG.2019 10:45:17

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



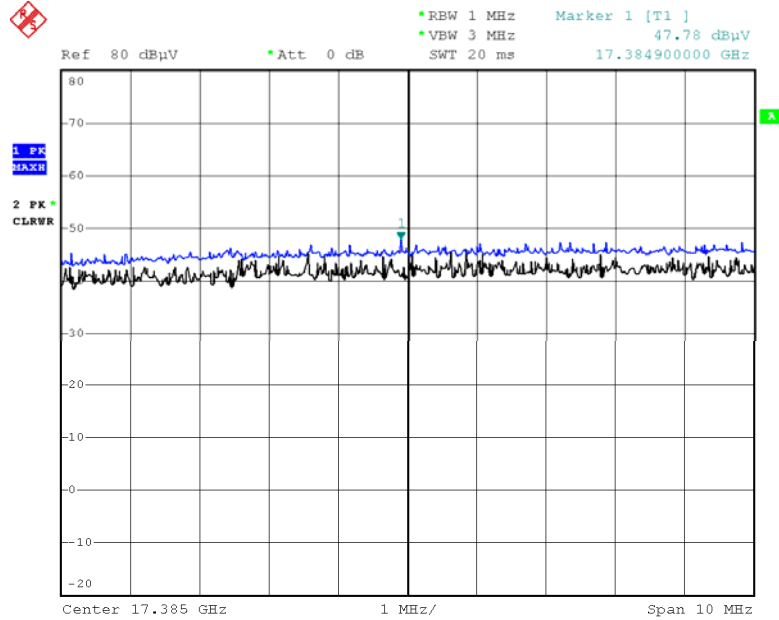
Date: 13.AUG.2019 10:50:51

Peak Reading (802.11n40, Ch.159 3rd Harmonic, X-H)



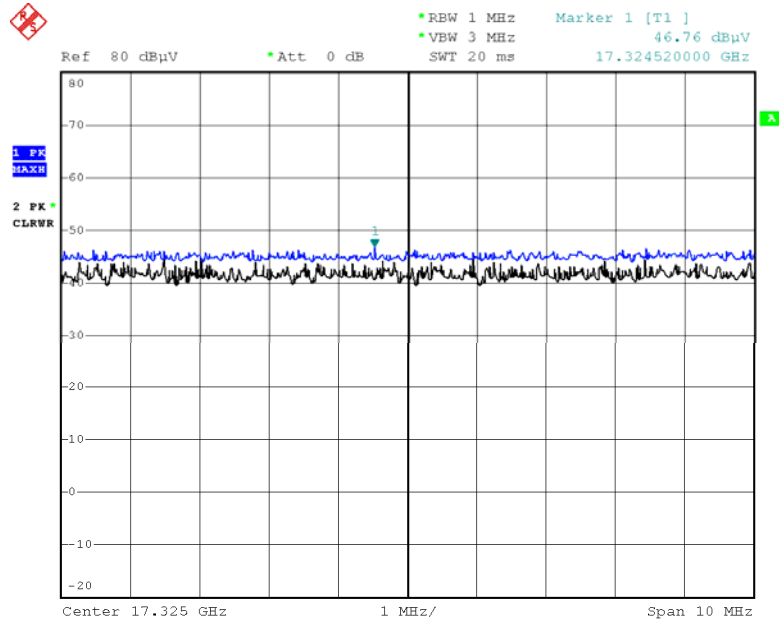
Date: 13.AUG.2019 14:31:20

Peak Reading (802.11ac40, Ch.159 3rd Harmonic, X-H)



Date: 13.AUG.2019 14:35:39

Peak Reading (802.11ac80, Ch.155 3rd Harmonic, X-H)



Date: 13.AUG.2019 14:41:17

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	CL+AF+DF-AG [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
5150	43.68	11.06	H	54.74	73.98	19.24	PK
5150	31.11	11.06	H	42.17	53.98	11.81	AV
5150	43.79	11.06	V	54.85	73.98	19.13	PK
5150	31.15	11.06	V	42.21	53.98	11.77	AV

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	CL+AF+DF-AG [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
5150	43.54	11.06	H	54.60	73.98	19.38	PK
5150	31.18	11.06	H	42.24	53.98	11.74	AV
5150	43.69	11.06	V	54.75	73.98	19.23	PK
5150	31.22	11.06	V	42.28	53.98	11.70	AV

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	CL+AF+DF-AG [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
5150	43.81	11.06	H	54.87	73.98	19.11	PK
5150	31.11	11.06	H	42.17	53.98	11.81	AV
5150	43.85	11.06	V	54.91	73.98	19.07	PK
5150	31.20	11.06	V	42.26	53.98	11.72	AV

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	CL+AF+DF-AG [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
5150	43.98	11.06	H	55.04	73.98	18.94	PK
5150	31.39	11.06	H	42.45	53.98	11.53	AV
5150	44.09	11.06	V	55.15	73.98	18.83	PK
5150	31.43	11.06	V	42.49	53.98	11.49	AV

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	CL+AF+DF-AG [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
5150	43.57	11.06	H	54.63	73.98	19.35	PK
5150	31.42	11.06	H	42.48	53.98	11.50	AV
5150	43.69	11.06	V	54.75	73.98	19.23	PK
5150	31.50	11.06	V	42.56	53.98	11.42	AV

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	CL+AF+DF-AG [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
5150	44.66	11.06	H	55.72	73.98	18.26	PK
5150	32.48	11.06	H	43.54	53.98	10.44	AV
5150	44.79	11.06	V	55.85	73.98	18.13	PK
5150	32.56	11.06	V	43.62	53.98	10.36	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	CL+AF+DF-AG [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
5350	43.74	11.86	H	55.60	73.98	18.38	PK
5350	31.00	11.86	H	42.86	53.98	11.12	AV
5350	43.88	11.86	V	55.74	73.98	18.24	PK
5350	31.06	11.86	V	42.92	53.98	11.06	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	CL+AF+DF-AG [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
5350	44.05	11.86	H	55.91	73.98	18.07	PK
5350	30.66	11.86	H	42.52	53.98	11.46	AV
5350	44.20	11.86	V	56.06	73.98	17.92	PK
5350	30.89	11.86	V	42.75	53.98	11.23	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	CL+AF+DF-AG [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
5350	43.59	11.86	H	55.45	73.98	18.53	PK
5350	30.81	11.86	H	42.67	53.98	11.31	AV
5350	43.75	11.86	V	55.61	73.98	18.37	PK
5350	30.85	11.86	V	42.71	53.98	11.27	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	CL+AF+DF-AG [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
5350	43.45	11.86	H	55.31	73.98	18.67	PK
5350	31.13	11.86	H	42.99	53.98	10.99	AV
5350	43.56	11.86	V	55.42	73.98	18.56	PK
5350	31.14	11.86	V	43.00	53.98	10.98	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	CL+AF+DF-AG [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
5350	43.56	11.86	H	55.42	73.98	18.56	PK
5350	31.07	11.86	H	42.93	53.98	11.05	AV
5350	43.66	11.86	V	55.52	73.98	18.46	PK
5350	31.18	11.86	V	43.04	53.98	10.94	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	CL+AF+DF-AG [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
5350	45.88	11.86	H	57.74	73.98	16.24	PK
5350	33.53	11.86	H	45.39	53.98	8.59	AV
5350	46.00	11.86	V	57.86	73.98	16.12	PK
5350	33.65	11.86	V	45.51	53.98	8.47	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	CL+AF+DF-AG [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
5460	43.63	12.24	H	55.87	73.98	18.11	PK
5460	30.48	12.24	H	42.72	53.98	11.26	AV
5470	45.22	12.50	H	57.72	68.20	10.48	PK
5460	43.68	12.24	V	55.92	73.98	18.06	PK
5460	30.59	12.24	V	42.83	53.98	11.15	AV
5470	45.35	12.50	V	57.85	68.20	10.35	PK

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	CL+AF+DF-AG [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
5460	43.82	12.24	H	56.06	73.98	17.92	PK
5460	30.49	12.24	H	42.73	53.98	11.25	AV
5470	45.27	12.50	H	57.77	68.20	10.43	PK
5460	43.89	12.24	V	56.13	73.98	17.85	PK
5460	30.54	12.24	V	42.78	53.98	11.20	AV
5470	45.39	12.50	V	57.89	68.20	10.31	PK

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	CL+AF+DF-AG [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
5460	43.41	12.24	H	55.65	73.98	18.33	PK
5460	30.49	12.24	H	42.73	53.98	11.25	AV
5470	43.20	12.50	H	55.7	68.20	12.50	PK
5460	43.56	12.24	V	55.8	73.98	18.18	PK
5460	30.58	12.24	V	42.82	53.98	11.16	AV
5470	43.24	12.50	V	55.74	68.20	12.46	PK

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	CL+AF+DF-AG [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
5460	43.11	12.24	H	55.35	73.98	18.63	PK
5460	30.79	12.24	H	43.03	53.98	10.95	AV
5470	45.28	12.50	H	57.78	68.20	10.42	PK
5460	43.23	12.24	V	55.47	73.98	18.51	PK
5460	30.85	12.24	V	43.09	53.98	10.89	AV
5470	45.36	12.50	V	57.86	68.20	10.34	PK

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

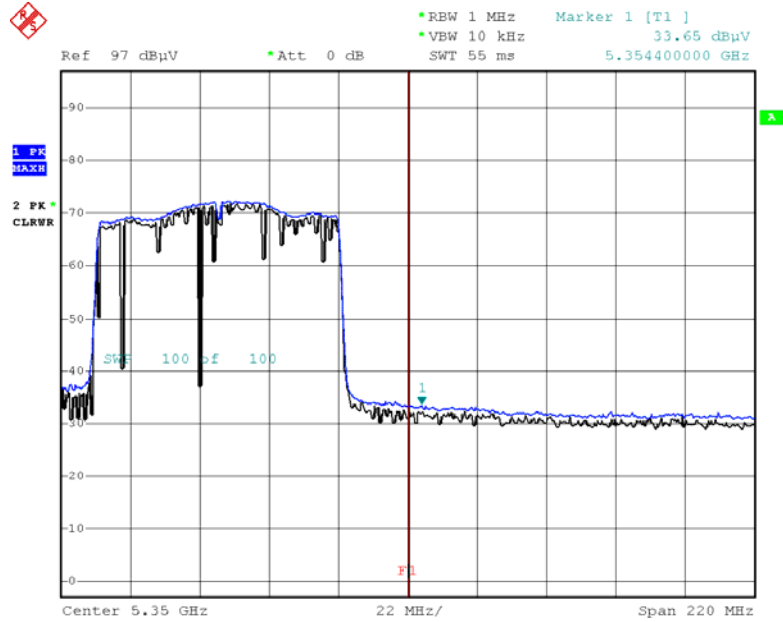
Frequency [MHz]	Reading dBuV	CL+AF+DF-AG [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
5460	44.03	12.24	H	56.27	73.98	17.71	PK
5460	31.14	12.24	H	43.38	53.98	10.60	AV
5470	44.21	12.50	H	56.71	68.20	11.49	PK
5460	44.17	12.24	V	56.41	73.98	17.57	PK
5460	31.16	12.24	V	43.4	53.98	10.58	AV
5470	44.52	12.50	V	57.02	68.20	11.18	PK

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	CL+AF+DF-AG [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
5460	43.39	12.24	H	55.63	73.98	18.35	PK
5460	31.98	12.24	H	44.22	53.98	9.76	AV
5470	45.21	12.50	H	57.71	68.20	10.49	PK
5460	43.58	12.24	V	55.82	73.98	18.16	PK
5460	32.11	12.24	V	44.35	53.98	9.63	AV
5470	45.42	12.50	V	57.92	68.20	10.28	PK

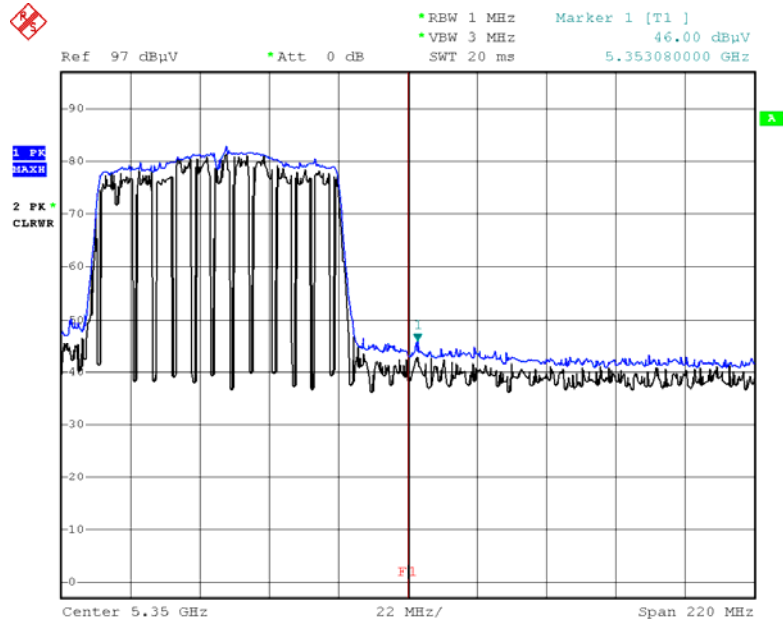
Test Plots

Average Reading (802.11ac, Ch.58, X-V)



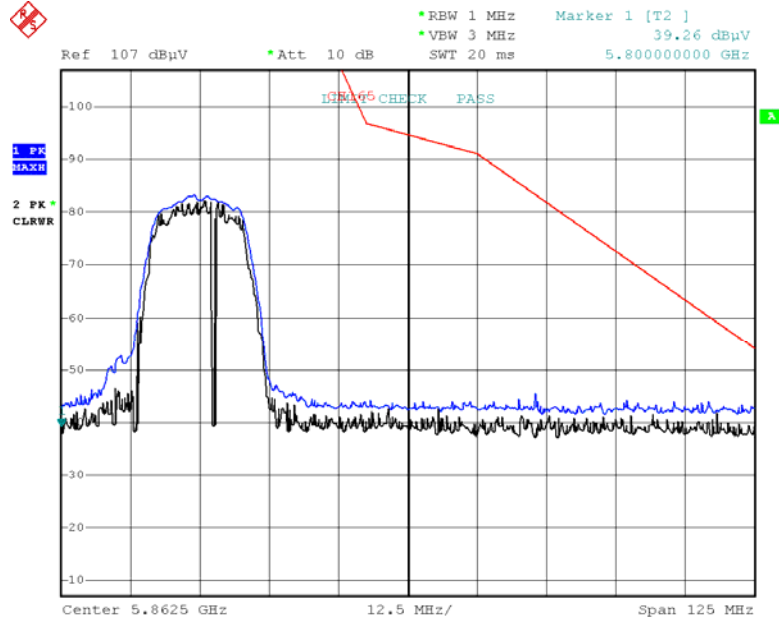
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Peak Reading (802.11ac Ch.58, X-V)



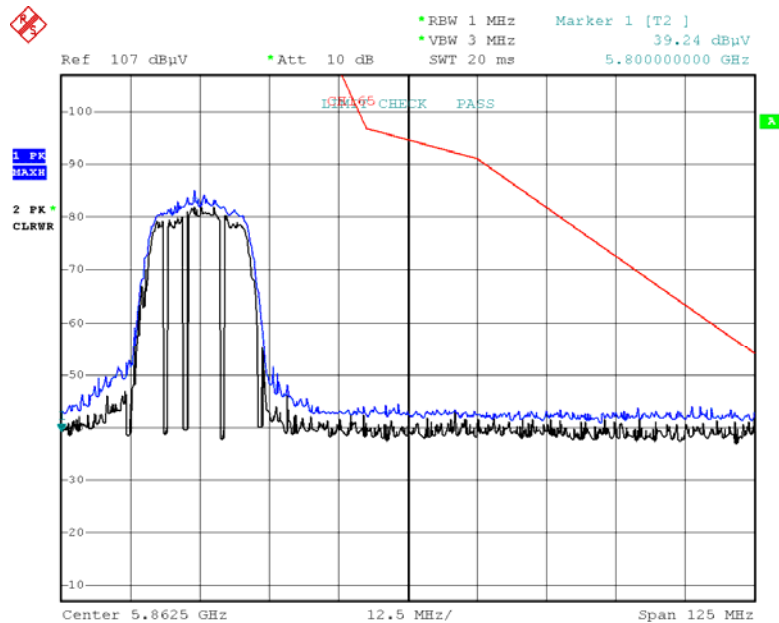
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802.11a Ch.165



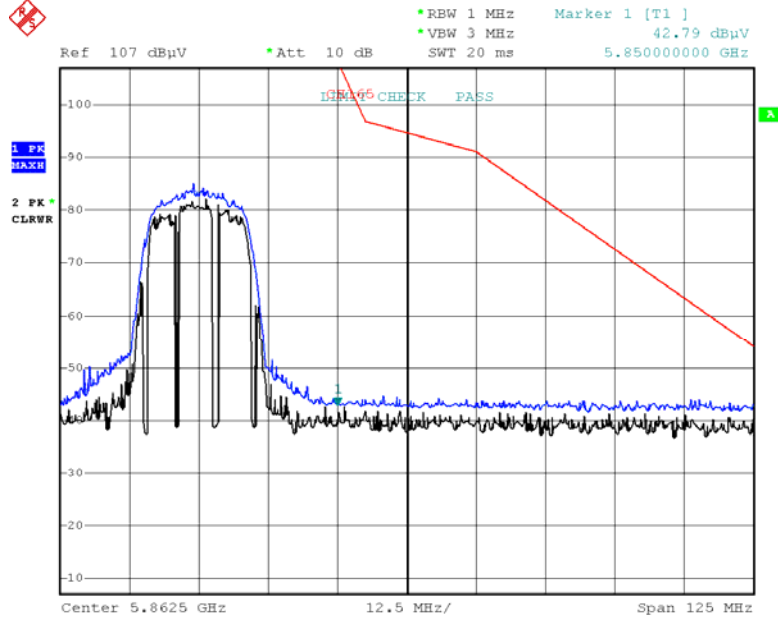
Date: 8.AUG.2019 04:54:07

802.11n Ch.165



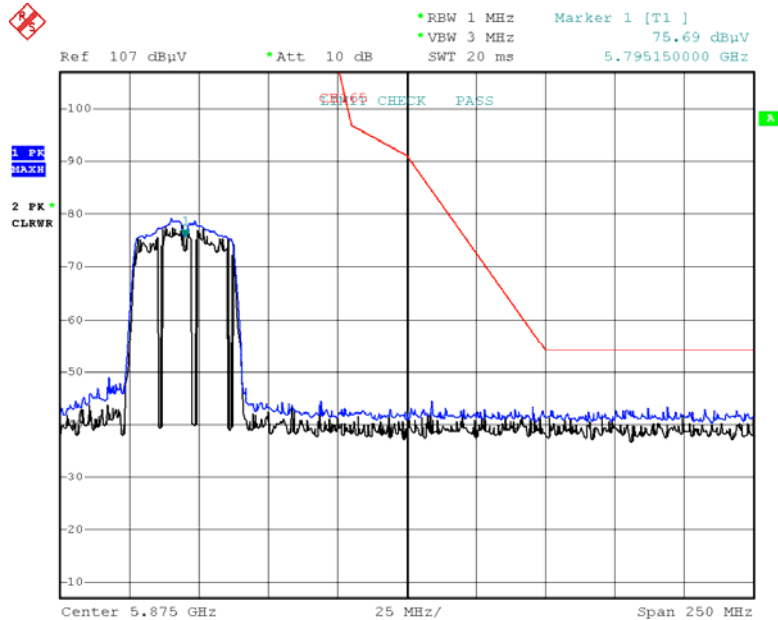
Date: 8.AUG.2019 04:55:07

802.11ac Ch.165



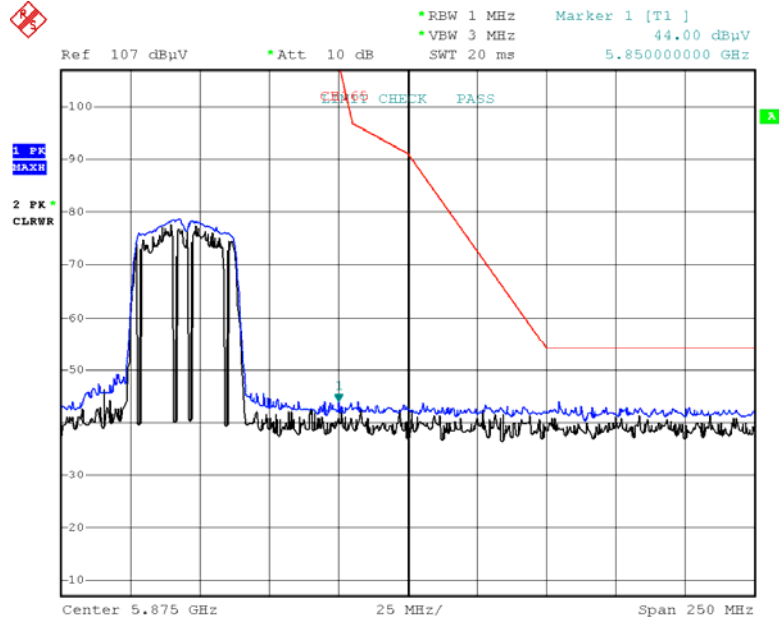
Date: 8.AUG.2019 04:55:40

802.11n_VHT40 Ch.159



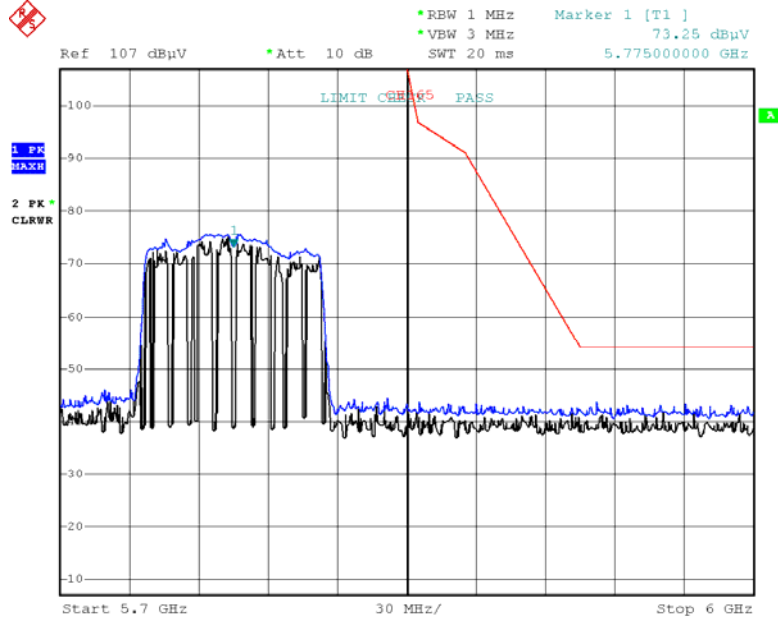
Date: 8.AUG.2019 04:57:39

802.11ac_VHT40 Ch.159



Date: 8.AUG.2019 04:58:16

802.11ac_VHT80 Ch.155



Date: 8.AUG.2019 05:00:48

Note : Only the worst case plots for Radiated Restricted Band Edge.

10.10 RECEIVER SPURIOUS EMISSIONS

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

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							

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	100033
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	5001
Hewlett Packard	E3632A / DC Power Supply	06/18/2019	Annual	KR75303960
Agilent	8493C / Attenuator(10 dB)	07/02/2019	Annual	07560
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
Emco	2090 / Controller	N/A	N/A	060520
Ets	Turn Table	N/A	N/A	N/A
Rohde & Schwarz	Loop Antenna	08/23/2018	Biennial	1513-175
Schwarzbeck	VULB 9160 / Hybrid Antenna	08/09/2019	Biennial	3368
Schwarzbeck	BBHA 9120D / Horn Antenna	11/21/2017	Biennial	9120D-1191
Schwarzbeck	BBHA9170 / Horn Antenna(15 GHz ~ 40 GHz)	12/04/2017	Biennial	BBHA9170541
Rohde & Schwarz	FSP(9 kHz ~ 30 GHz) / Spectrum Analyzer	09/19/2018	Annual	836650/016
Rohde & Schwarz	FSV40-N / Spectrum Analyzer	09/19/2018	Annual	101068-SZ
Wainwright Instruments	WHKX10-2700-3000-18000-40SS / High Pass Filter	01/03/2019	Annual	4
Wainwright Instruments	WHKX8-6090-7000-18000-40SS / High Pass Filter	01/03/2019	Annual	5
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	2
WEINSCHTEL	56-10 / Attenuator(10 dB)	10/10/2018	Annual	72316
CERNEX	CBLU1183540B-01/Broadband Bench Top LNA	01/03/2019	Annual	28549
CERNEX	CBL06185030 / Broadband Low Noise Amplifier	01/03/2019	Annual	24615
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-FI029-P