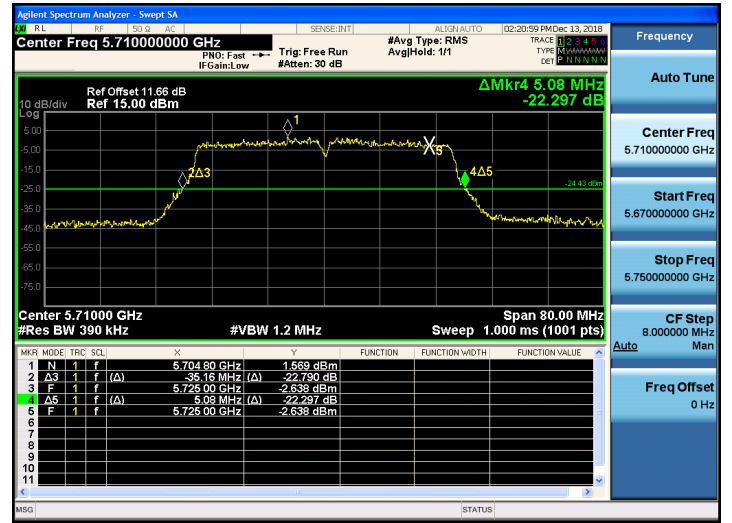


Test Plots (26dB Bandwidth)

802.11n(HT40) UNII Band



802.11ac(VHT40) UNII Band



802.11ac(VHT80) UNII Band



10.7.2 6dB Bandwidth

[Ant1]

Mode	Frequency [MHz]	Channel No.	6dB Bandwidth [MHz]
802.11a	5720 (UNII 3 Band)	144	3.244
802.11n(HT20)			3.808
802.11ac(VHT20)			3.836

Mode	Frequency [MHz]	Channel No.	6dB Bandwidth [MHz]
802.11n(HT40)	5710 (UNII 3 Band)	142	3.240
802.11ac(VHT40)			3.210

Mode	Frequency [MHz]	Channel No.	6dB Bandwidth [MHz]
802.11ac(VHT80)	5690 (UNII 3 Band)	138	3.220

Test Plots(UNII 3 Band 6dB Bandwidth)

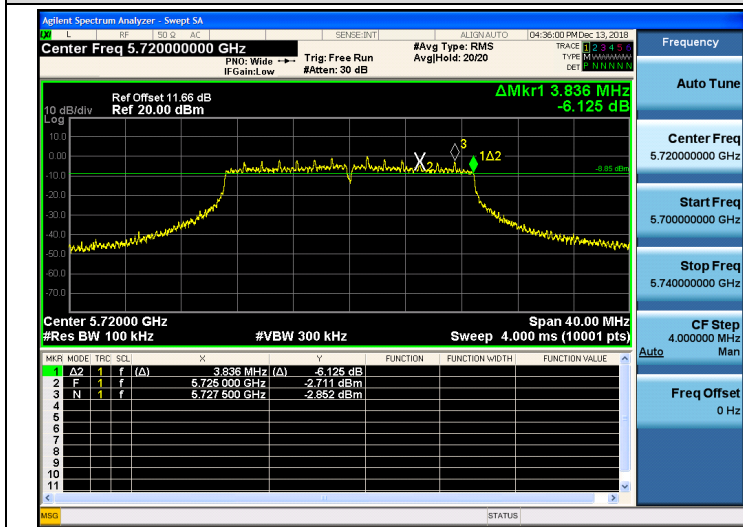
802.11a CH.144



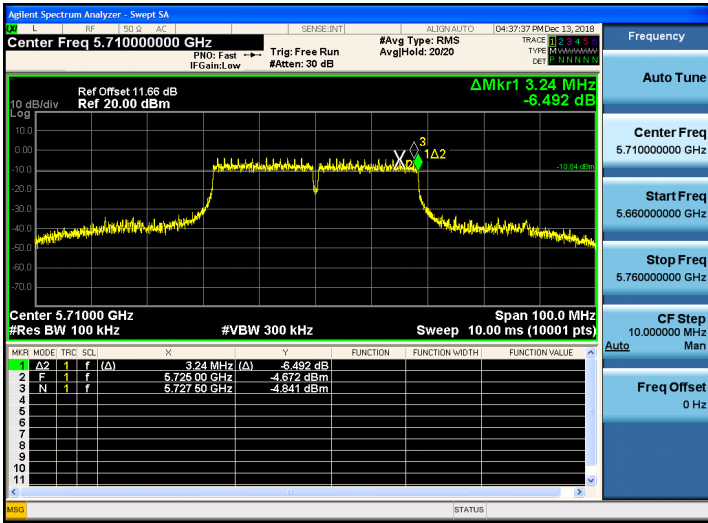
802.11n_HT20 CH.144



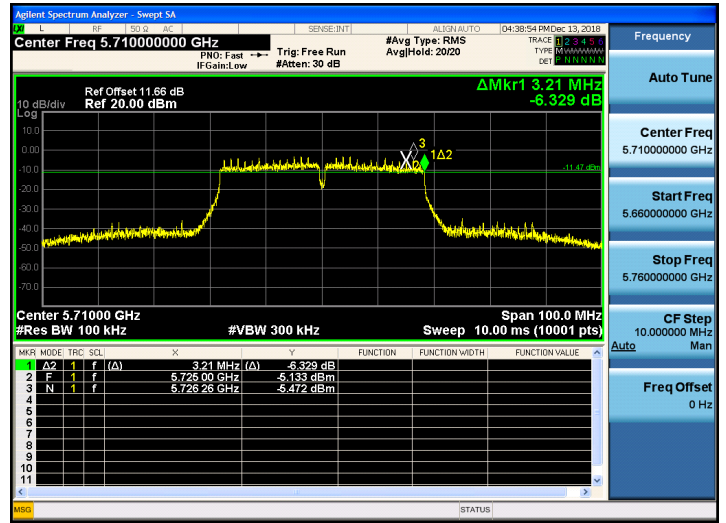
802.11ac_VHT20 CH.144



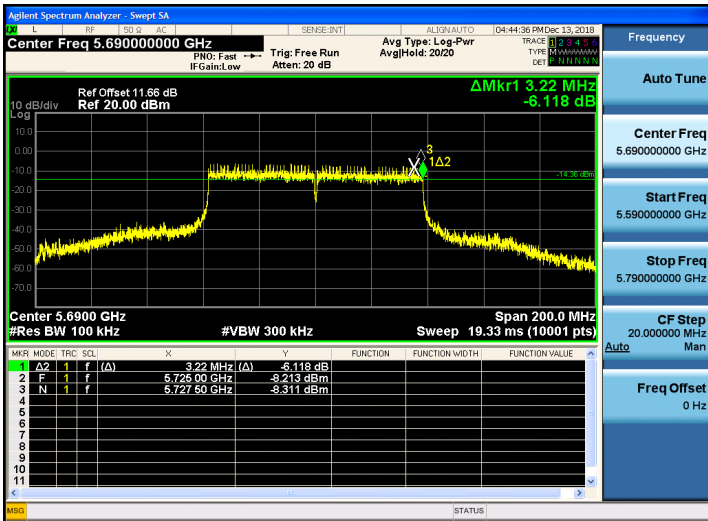
802.11n_HT40 CH.142



802.11ac_VHT40 CH.142



802.11ac_VHT80 CH.138



[Ant2]

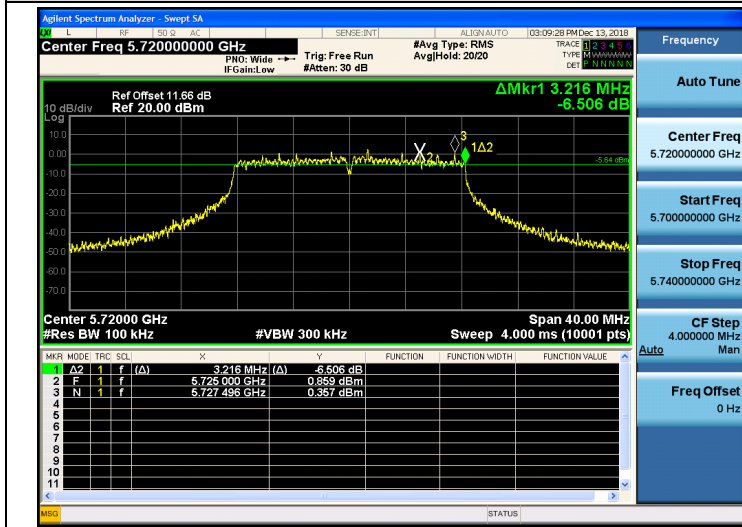
Mode	Frequency [MHz]	Channel No.	6dB Bandwidth [MHz]
802.11a	5720 (UNII 3 Band)	144	3.216
802.11n(HT20)			3.788
802.11ac(VHT20)			3.764

Mode	Frequency [MHz]	Channel No.	6dB Bandwidth [MHz]
802.11n(HT40)	5710 (UNII 3 Band)	142	3.230
802.11ac(VHT40)			3.220

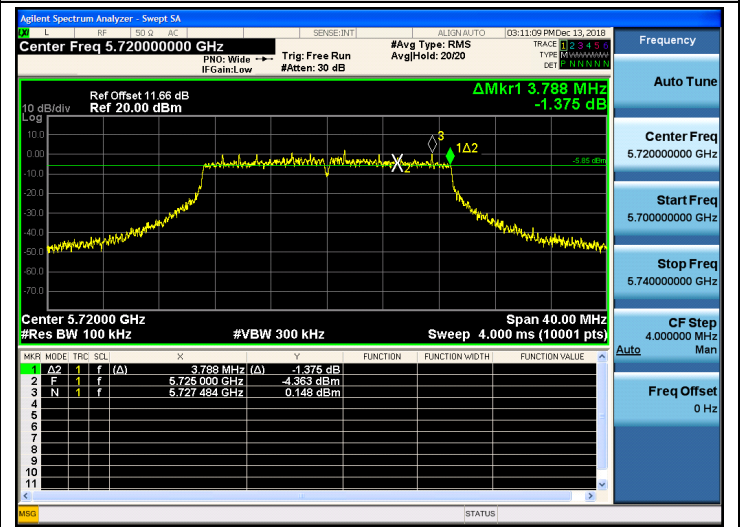
Mode	Frequency [MHz]	Channel No.	6dB Bandwidth [MHz]
802.11ac(VHT80)	5690 (UNII 3 Band)	138	3.080

Test Plots(UNII 3 Band 6dB Bandwidth)

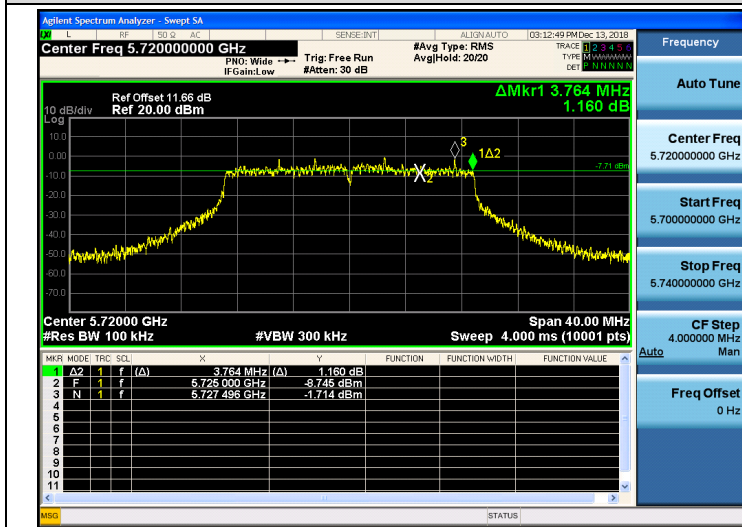
802.11a CH.144



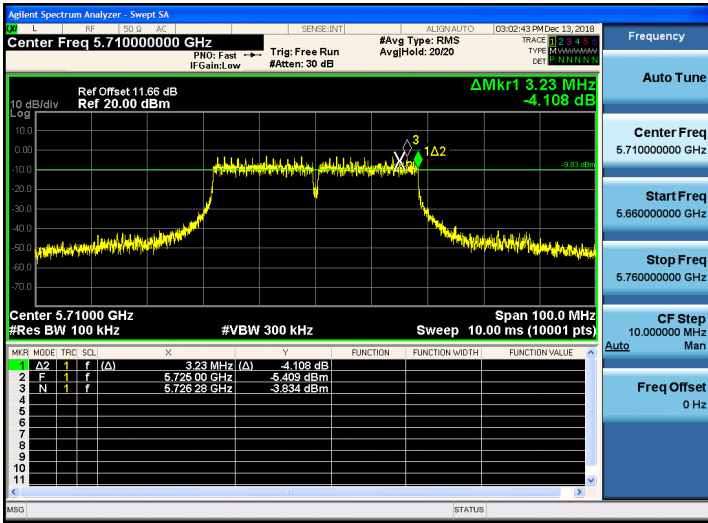
802.11n_HT20 CH.144



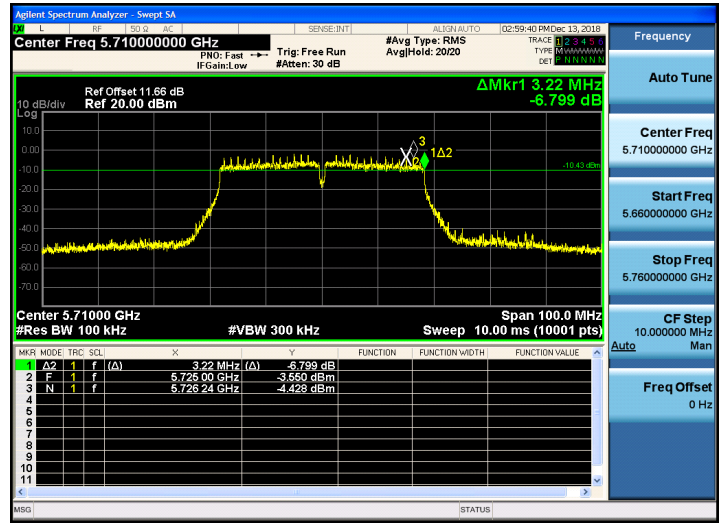
802.11ac_VHT20 CH.144



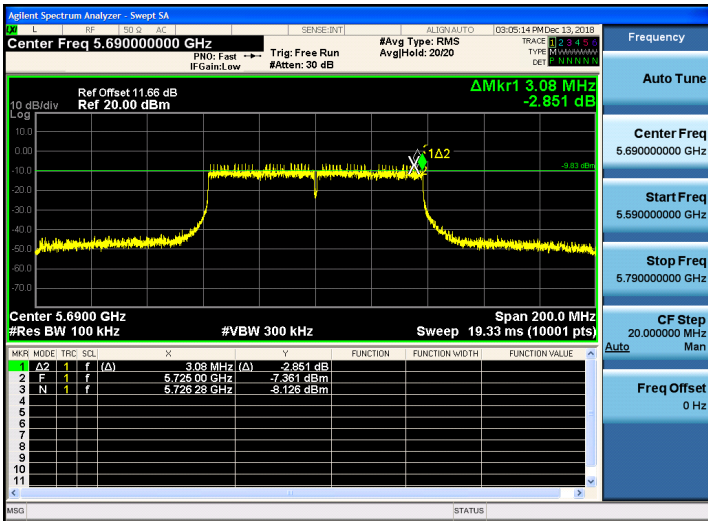
802.11n_HT40 CH.142



802.11ac_VHT40 CH.142



802.11ac_VHT80 CH.138



10.7.3 Output Power

[Ant1]

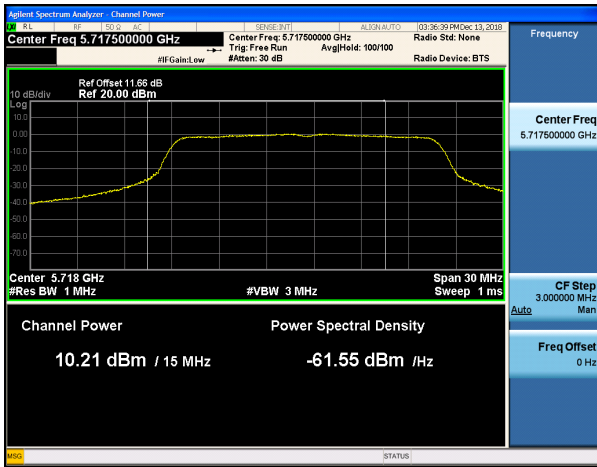
Mode	Frequency [MHz]	Channel	Measured Power (dBm)	Duty Cycle Factor (dB)	Measured Power(dBm) + Duty Cycle Factor(dB)	Limit (dBm)
802.11a	5720 (UNII 2C Band)	144	10.21	0.310	10.52	22.76
802.11n(HT20)			9.97	0.322	10.29	22.81
802.11ac(VHT20)			8.20	0.327	8.53	22.89
802.11a	5720 (UNII 3 Band)	144	3.22	0.310	3.53	30.00
802.11n(HT20)			3.51	0.322	3.83	30.00
802.11ac(VHT20)			1.74	0.327	2.07	30.00

Mode	Frequency [MHz]	Channel	Measured Power (dBm)	Duty Cycle Factor (dB)	Measured Power(dBm) + Duty Cycle Factor(dB)	Limit (dBm)
802.11n(HT40)	5710 (UNII 2C Band)	142	8.69	1.243	9.93	23.98
802.11ac(VHT40)			9.42	0.413	9.83	23.98
802.11n(HT40)	5710 (UNII 3 Band)	142	-1.60	1.243	-0.36	30.00
802.11ac(VHT40)			-1.85	0.413	-1.44	30.00

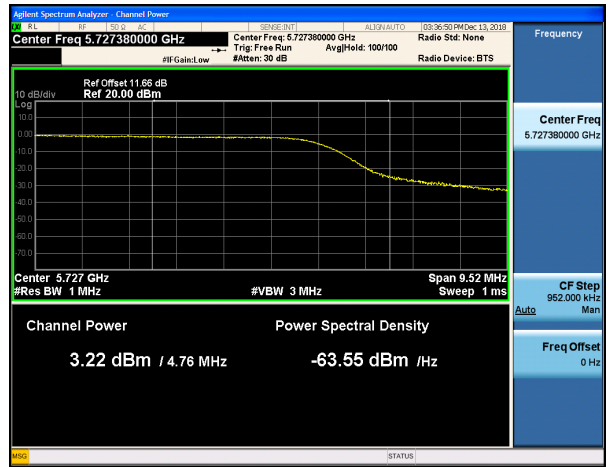
Mode	Frequency [MHz]	Channel	Measured Power (dBm)	Duty Cycle Factor (dB)	Measured Power(dBm) + Duty Cycle Factor(dB)	Limit (dBm)
802.11ac(VHT80)	5690 (UNII 2C Band)	138	7.99	1.761	9.75	23.98
	5690 (UNII 3 Band)	138	-6.47	1.761	-4.71	30.00

Test Plots

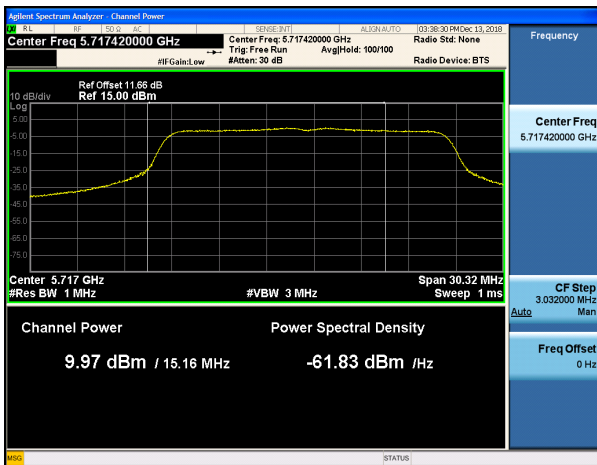
802.11a UNII 2C Band



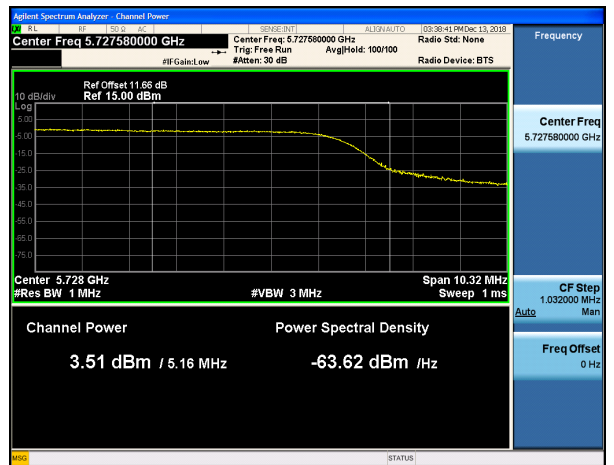
802.11a UNII 3 Band



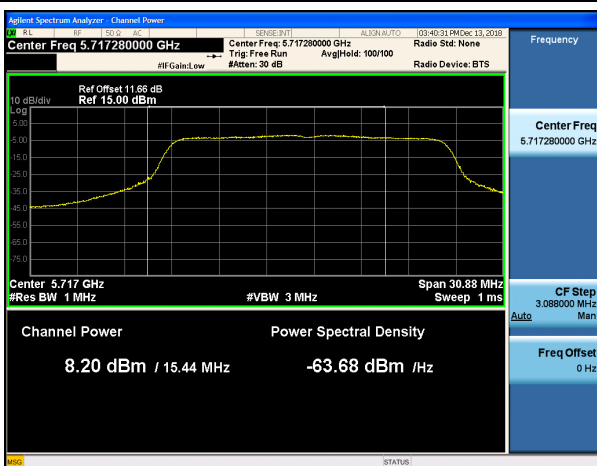
802.11n(HT20) UNII 2C Band



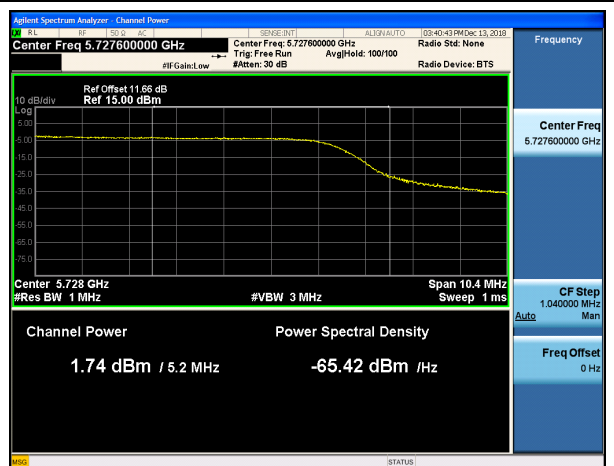
802.11n(HT20) UNII 3 Band



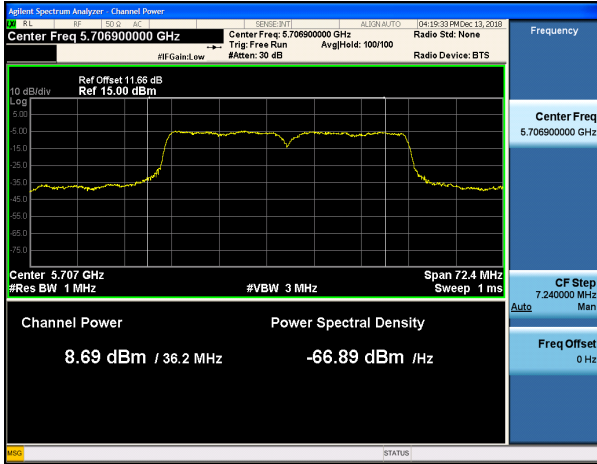
802.11ac(VHT20) UNII 2C Band



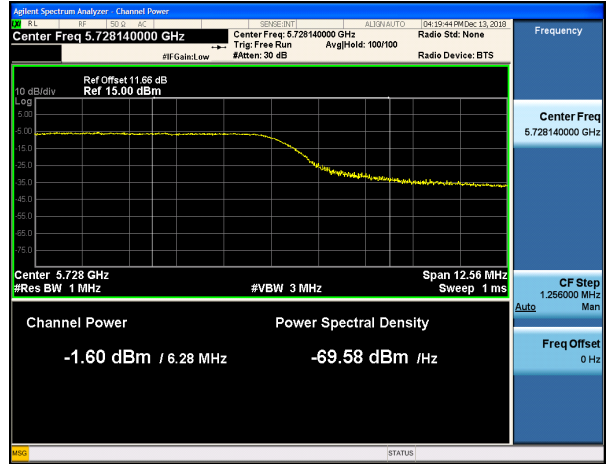
802.11ac(VHT20) UNII 3 Band



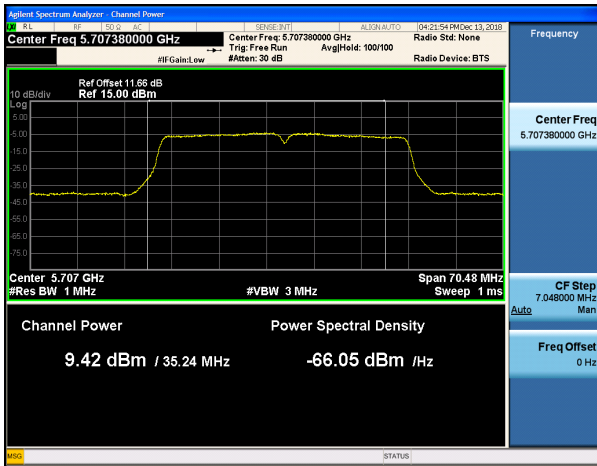
802.11n(HT40) UNII 2C Band



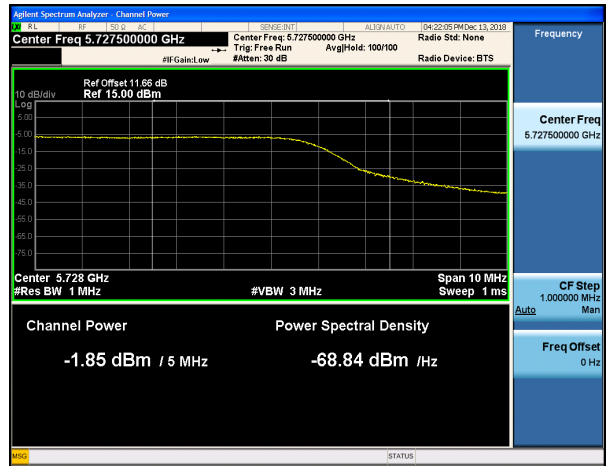
802.11n(HT40) UNII 3 Band



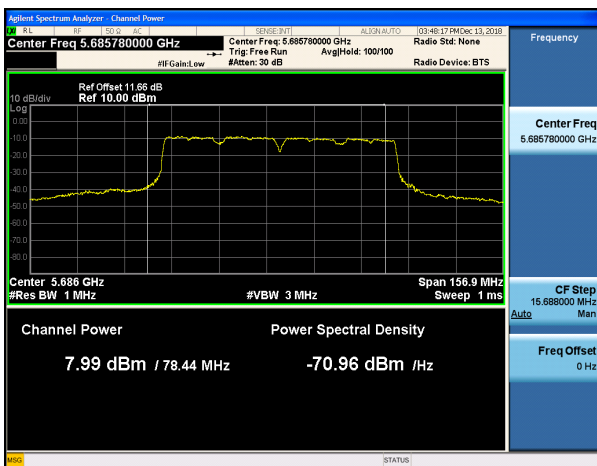
802.11ac(VHT40) UNII 2C Band



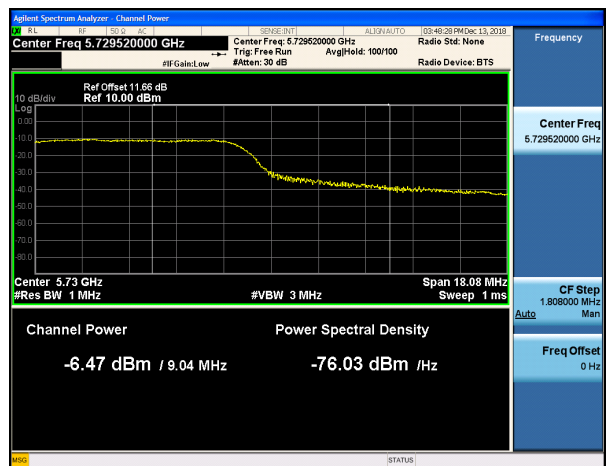
802.11ac(VHT40) UNII 3 Band



802.11ac(VHT80) UNII 2C Band



802.11ac(VHT80) UNII 3 Band



[Ant2]

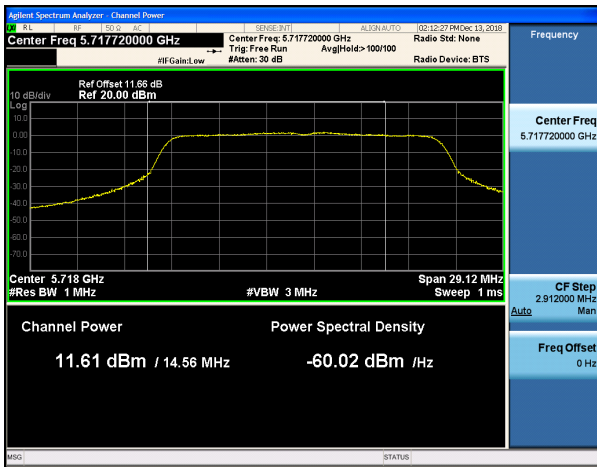
Mode	Frequency [MHz]	Channel	Measured Power (dBm)	Duty Cycle Factor (dB)	Measured Power(dBm) + Duty Cycle Factor(dB)	Limit (dBm)
802.11a	5720 (UNII 2C Band)	144	11.61	0.310	11.92	22.63
802.11n(HT20)			11.34	0.322	11.66	22.84
802.11ac(VHT20)			9.26	0.327	9.59	22.83
802.11a	5720 (UNII 3 Band)	144	4.69	0.310	5.00	30.00
802.11n(HT20)			4.95	0.322	5.27	30.00
802.11ac(VHT20)			2.90	0.327	3.23	30.00

Mode	Frequency [MHz]	Channel	Measured Power (dBm)	Duty Cycle Factor (dB)	Measured Power(dBm) + Duty Cycle Factor(dB)	Limit (dBm)
802.11n(HT40)	5710 (UNII 2C Band)	142	9.77	1.243	11.01	23.98
802.11ac(VHT40)			10.62	0.413	11.03	23.98
802.11n(HT40)	5710 (UNII 3 Band)	142	-0.47	1.243	0.77	30.00
802.11ac(VHT40)			-0.51	0.413	-0.10	30.00

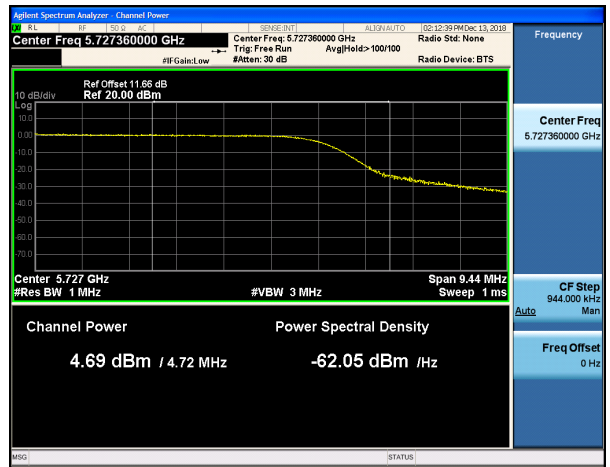
Mode	Frequency [MHz]	Channel	Measured Power (dBm)	Duty Cycle Factor (dB)	Measured Power(dBm) + Duty Cycle Factor(dB)	Limit (dBm)
802.11ac(VHT80)	5690 (UNII 2C Band)	138	9.26	1.761	11.02	23.98
	5690 (UNII 3 Band)	138	-4.74	1.761	-2.98	30.00

Test Plots

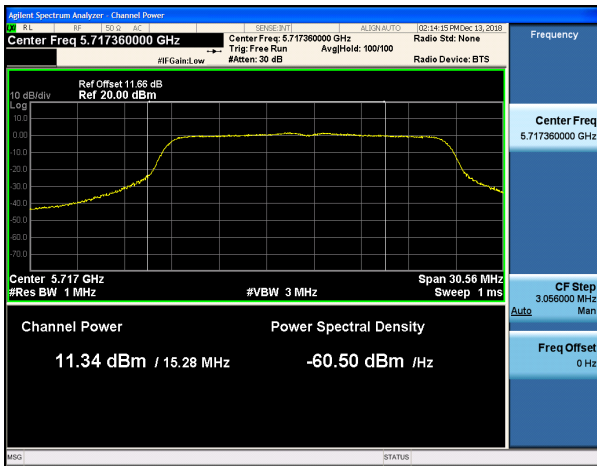
802.11a UNII 2C Band



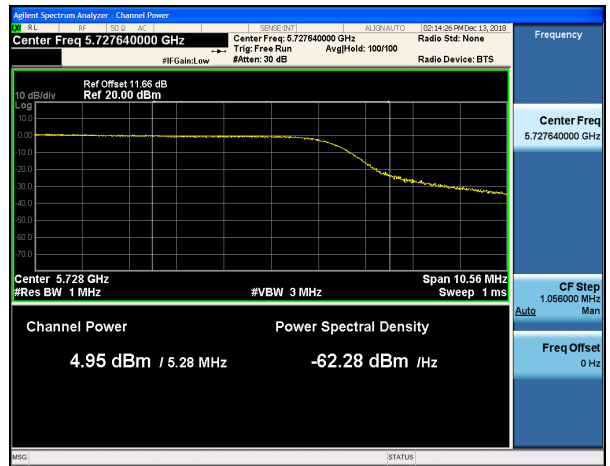
802.11a UNII 3 Band



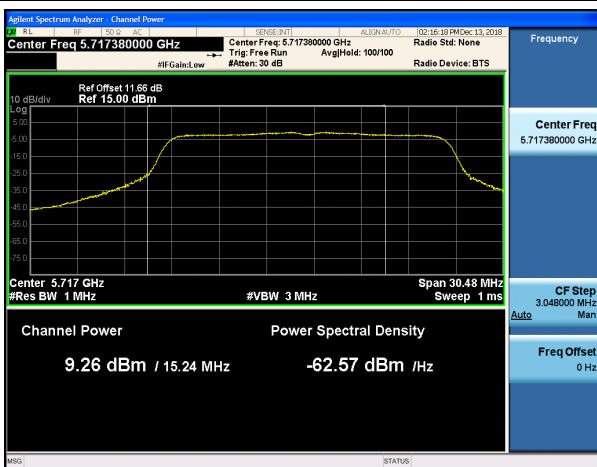
802.11n(HT20) UNII 2C Band



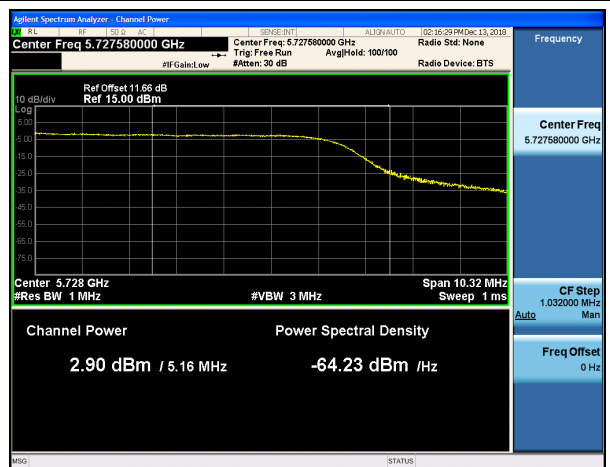
802.11n(HT20) UNII 3 Band



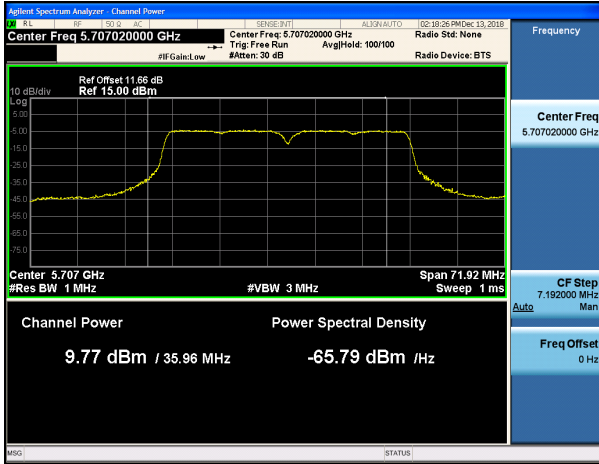
802.11ac(VHT20) UNII 2C Band



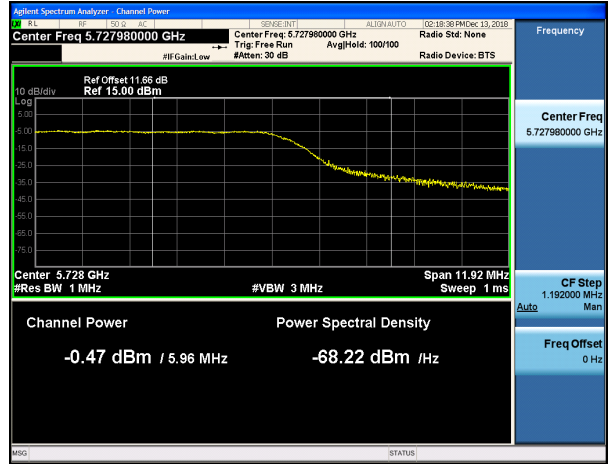
802.11ac(VHT20) UNII 3 Band



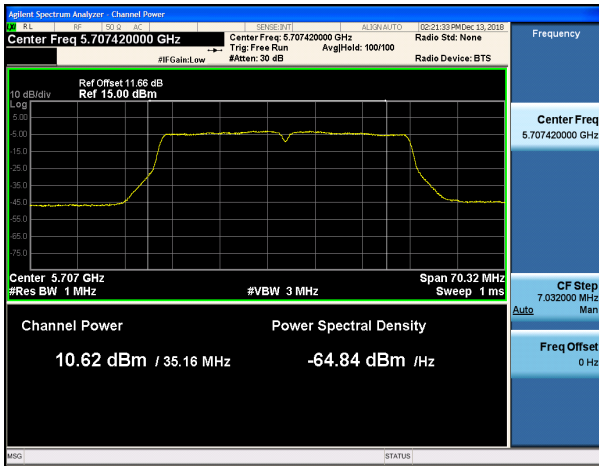
802.11n(HT40) UNII 2C Band



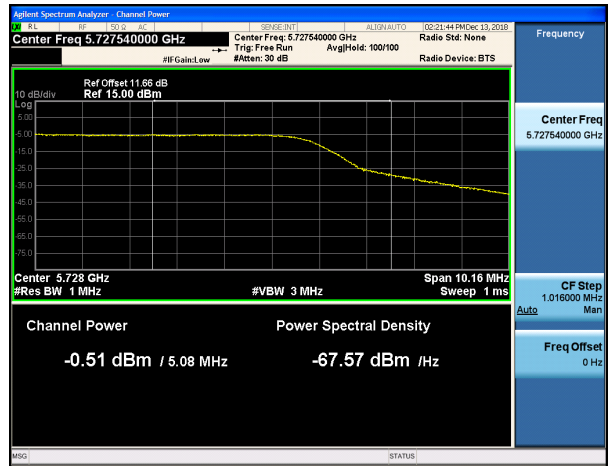
802.11n(HT40) UNII 3 Band



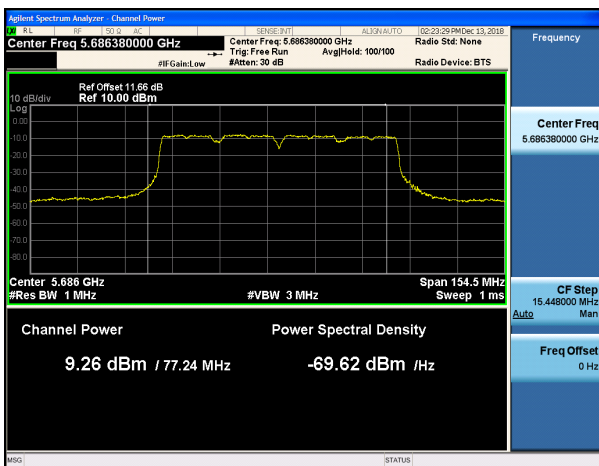
802.11ac(VHT40) UNII 2C Band



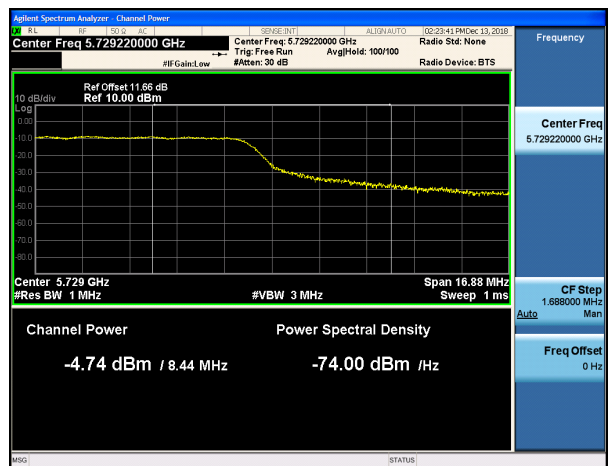
802.11ac(VHT40) UNII 3 Band



802.11ac(VHT80) UNII 2C Band



802.11ac(VHT80) UNII 3 Band



10.7.4 Power Spectral Density

[Ant1]

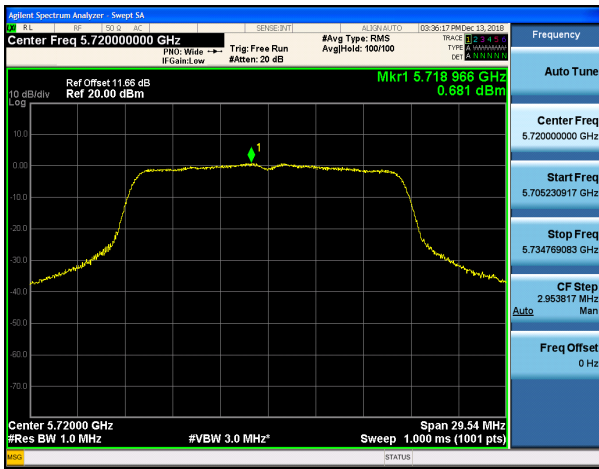
Mode	Frequency [MHz]	Channel	Measured Density (dBm)	Duty Cycle Factor (dB)	Measured Density(dBm) + Duty Cycle Factor(dB)	Limit (dBm)
802.11a	5720 (UNII 2C Band)	144	0.681	0.310	0.991	11.00
802.11n(HT20)			0.087	0.322	0.409	11.00
802.11ac(VHT20)			-1.538	0.327	-1.211	11.00
802.11a	5720 (UNII 3 Band)	144	-3.964	0.310	-3.654	30.00
802.11n(HT20)			-4.186	0.322	-3.864	30.00
802.11ac(VHT20)			-6.068	0.327	-5.741	30.00

Mode	Frequency [MHz]	Channel	Measured Density (dBm)	Duty Cycle Factor (dB)	Measured Density(dBm) + Duty Cycle Factor(dB)	Limit (dBm)
802.11n(HT40)	5710 (UNII 2C Band)	142	-4.803	1.243	-3.560	11.00
802.11ac(VHT40)			-3.780	0.413	-3.367	11.00
802.11n(HT40)	5710 (UNII 3 Band)	142	-7.907	1.243	-6.664	30.00
802.11ac(VHT40)			-8.901	0.413	-8.488	30.00

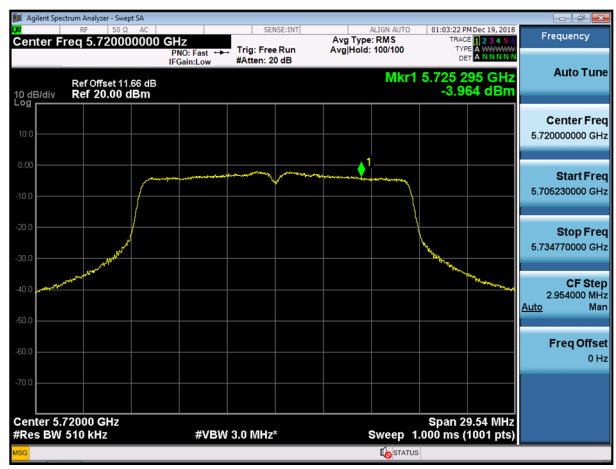
Mode	Frequency [MHz]	Channel	Measured Density (dBm)	Duty Cycle Factor (dB)	Measured Density(dBm) + Duty Cycle Factor(dB)	Limit (dBm)
802.11ac(VHT80)	5690 (UNII 2C Band)	138	-8.354	1.761	-6.593	11.00
	5690 (UNII 3 Band)	138	-13.232	1.761	-11.471	30.00

Test Plots

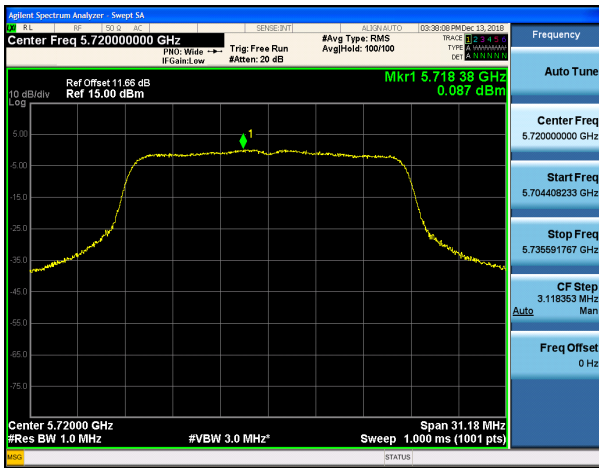
802.11a UNII 2C Band



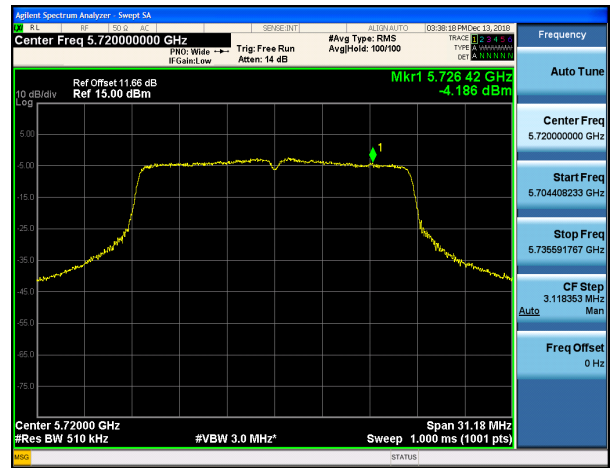
802.11a UNII 3 Band



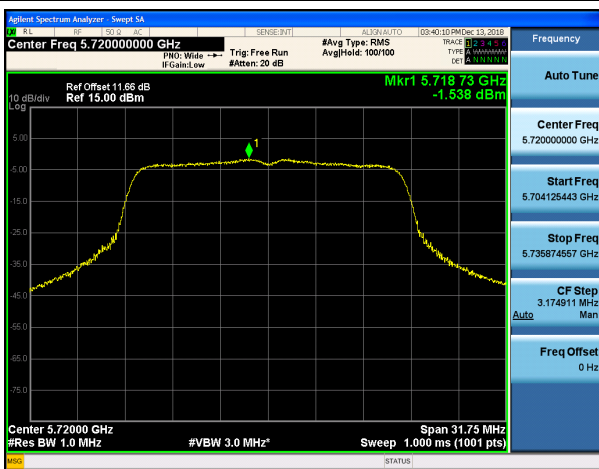
802.11n(HT20) UNII 2C Band



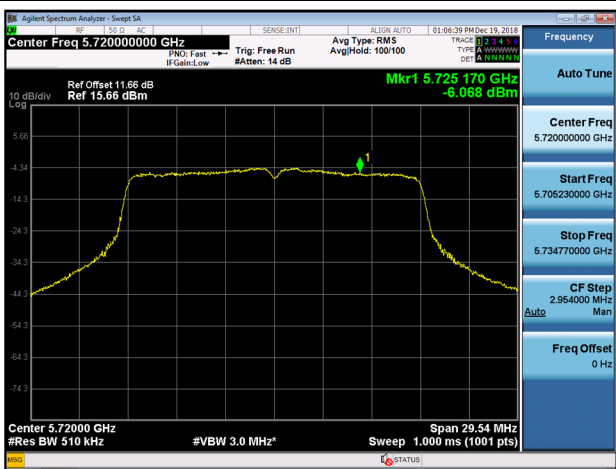
802.11n(HT20) UNII 3 Band



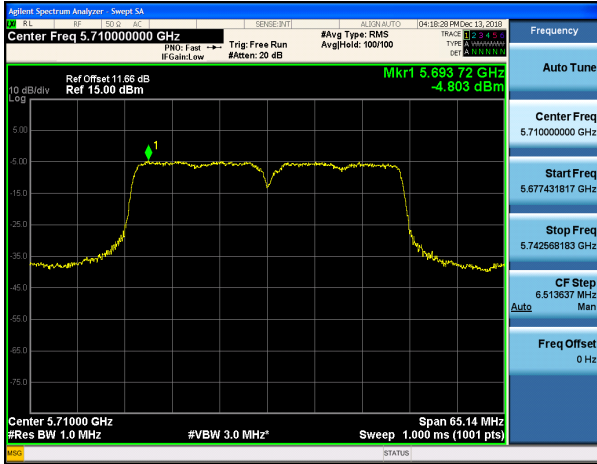
802.11ac(VHT20) UNII 2C Band



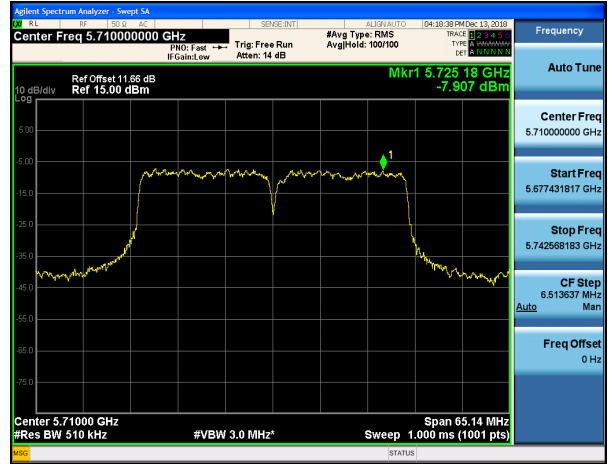
802.11ac(VHT20) UNII 3 Band



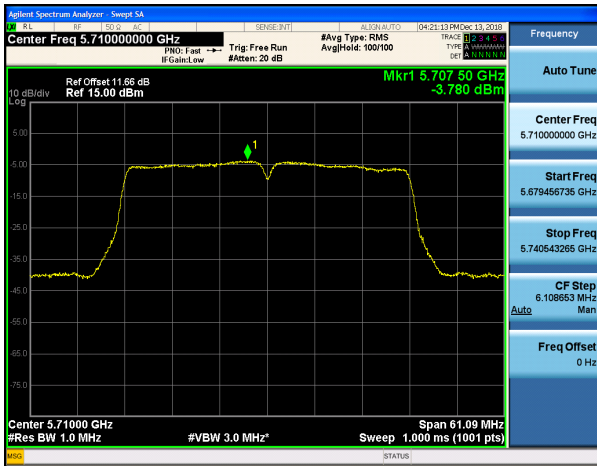
802.11n(HT40) UNII 2C Band



802.11n(HT40) UNII 3 Band



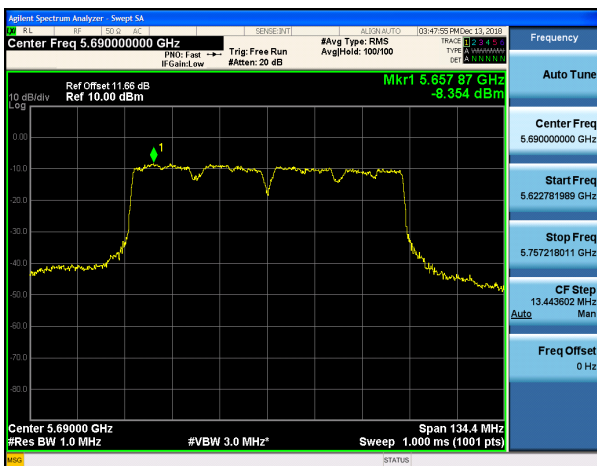
802.11ac(VHT40) UNII 2C Band



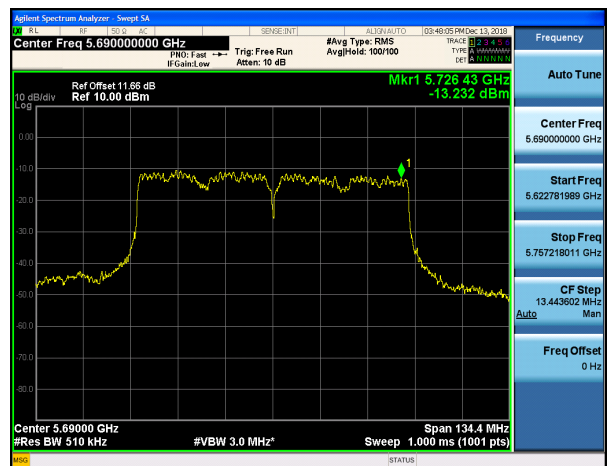
802.11ac(VHT40) UNII 3 Band



802.11ac(VHT80) UNII 2C Band



802.11ac(VHT80) UNII 3 Band



[Ant2]

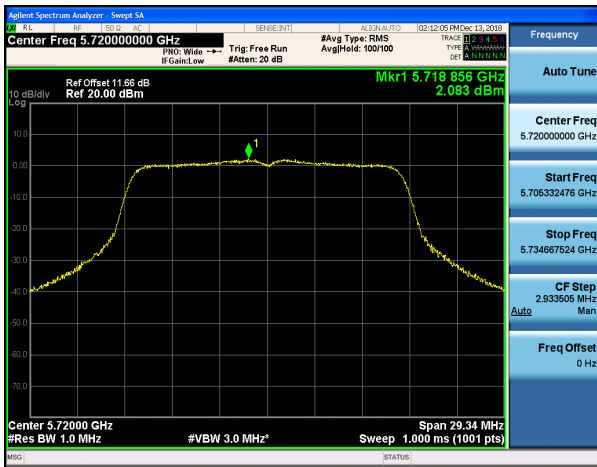
Mode	Frequency [MHz]	Channel	Measured Density (dBm)	Duty Cycle Factor (dB)	Measured Density(dBm) + Duty Cycle Factor(dB)	Limit (dBm)
802.11a	5720 (UNII 2C Band)	144	2.083	0.310	2.393	11.00
802.11n(HT20)			1.636	0.322	1.958	11.00
802.11ac(VHT20)			-0.740	0.327	-0.413	11.00
802.11a	5720 (UNII 3 Band)	144	-2.459	0.310	-2.149	30.00
802.11n(HT20)			-2.632	0.322	-2.310	30.00
802.11ac(VHT20)			-4.966	0.327	-4.639	30.00

Mode	Frequency [MHz]	Channel	Measured Density (dBm)	Duty Cycle Factor (dB)	Measured Density(dBm) + Duty Cycle Factor(dB)	Limit (dBm)
802.11n(HT40)	5710 (UNII 2C Band)	142	-3.999	1.243	-2.756	11.00
802.11ac(VHT40)			-2.715	0.413	-2.302	11.00
802.11n(HT40)	5710 (UNII 3 Band)	142	-7.253	1.243	-6.010	30.00
802.11ac(VHT40)			-7.668	0.413	-7.255	30.00

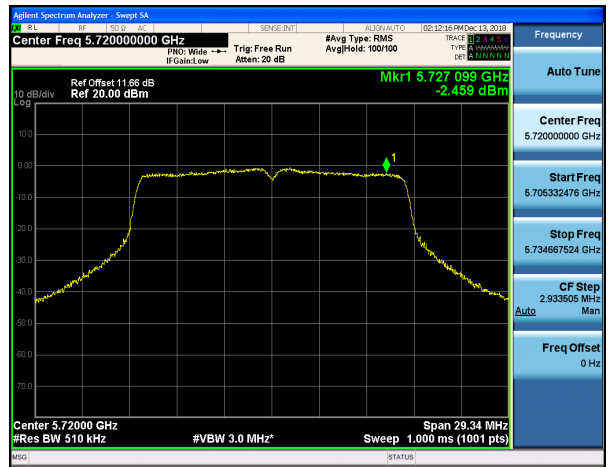
Mode	Frequency [MHz]	Channel	Measured Density (dBm)	Duty Cycle Factor (dB)	Measured Density(dBm) + Duty Cycle Factor(dB)	Limit (dBm)
802.11ac(VHT80)	5690 (UNII 2C Band)	138	-7.600	1.761	-5.839	11.00
	5690 (UNII 3 Band)	138	-10.863	1.761	-9.102	30.00

Test Plots

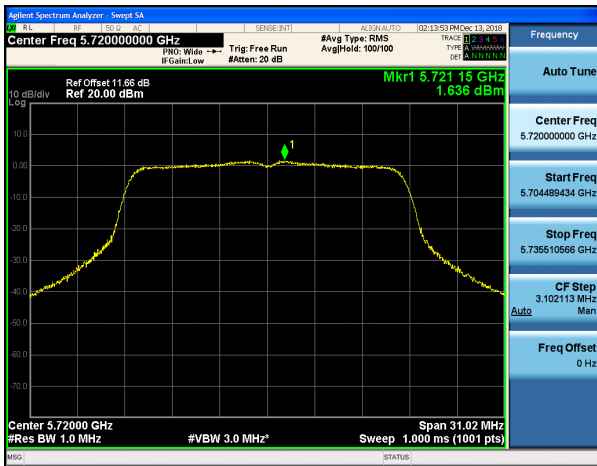
802.11a UNII 2C Band



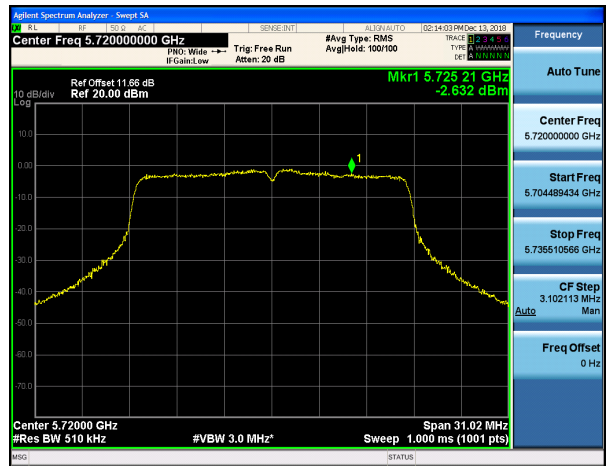
802.11a UNII 3 Band



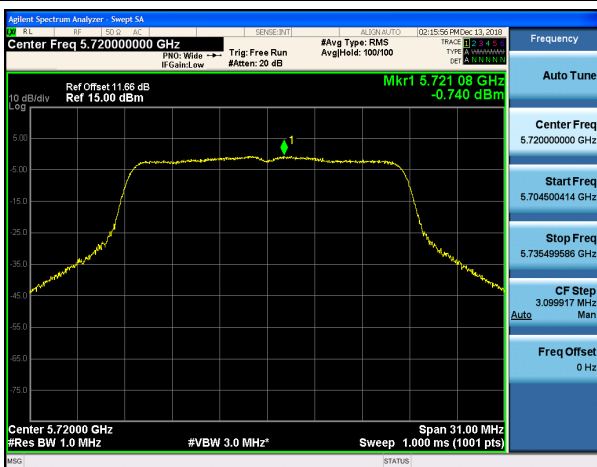
802.11n(HT20) UNII 2C Band



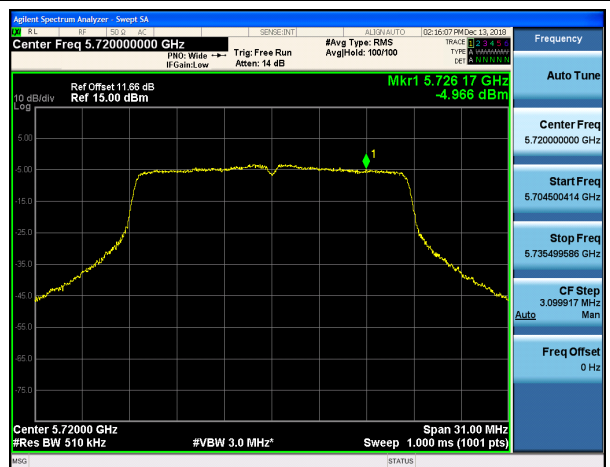
802.11n(HT20) UNII 3 Band



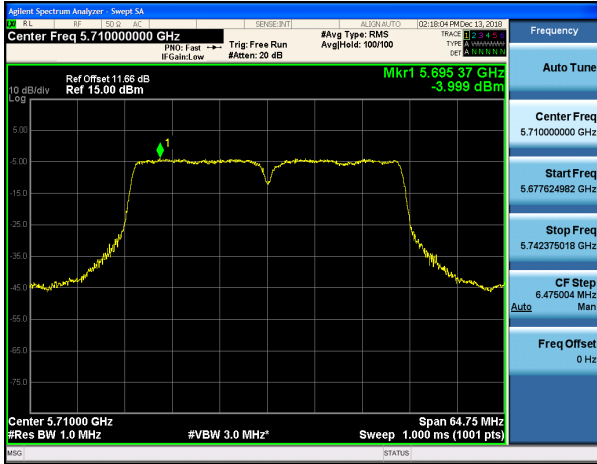
802.11ac(VHT20) UNII 2C Band



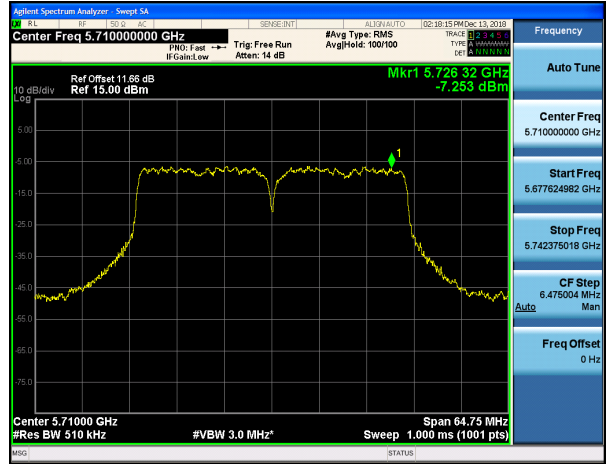
802.11ac(VHT20) UNII 3 Band



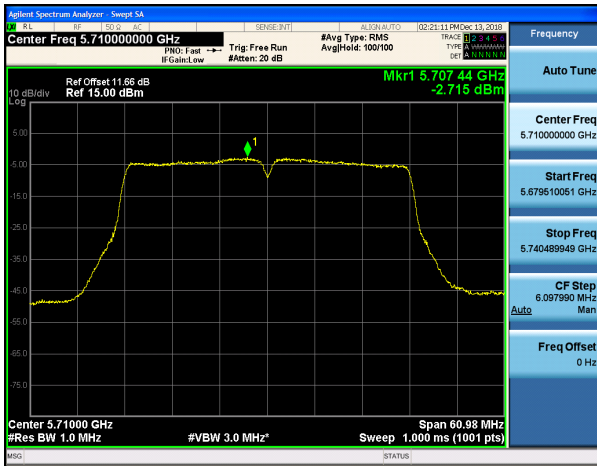
802.11n(HT40) UNII 2C Band



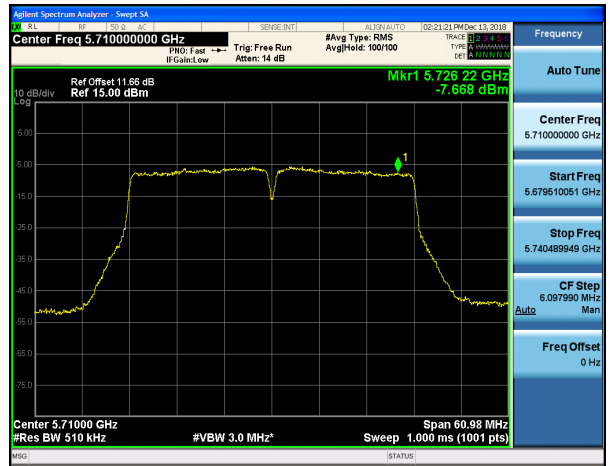
802.11n(HT40) UNII 3 Band



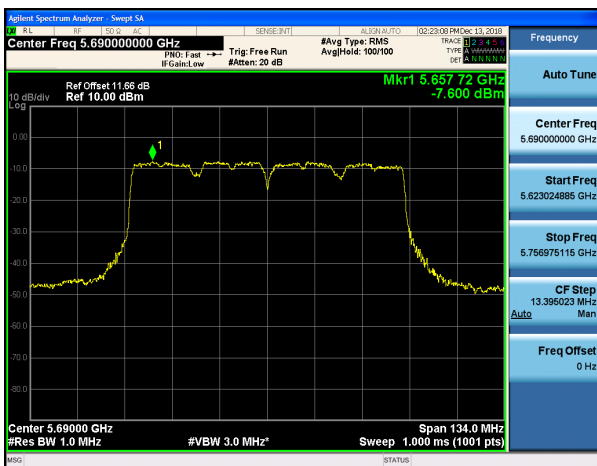
802.11ac(VHT40) UNII 2C Band



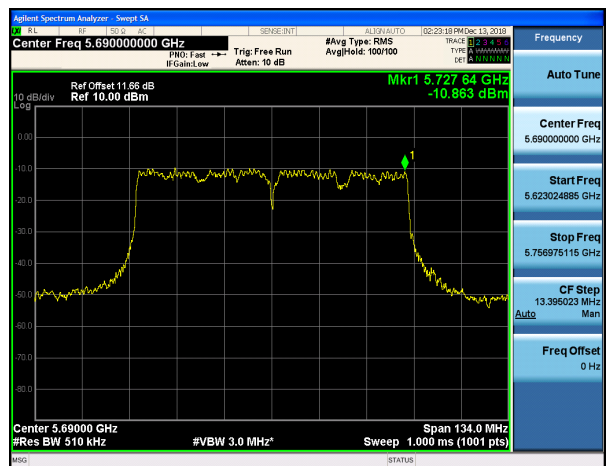
802.11ac(VHT40) UNII 3 Band



802.11ac(VHT80) UNII 2C Band



802.11ac(VHT80) UNII 3 Band



10.8 RADIATED SPURIOUS EMISSIONS

Frequency Range : 9 kHz – 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 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	53.59	-1.02	V	52.57	68.20	15.63	PK
15540	52.82	-1.27	V	51.55	73.98	22.43	PK
15540	38.25	-1.27	V	36.98	53.98	17.00	AV
10360	52.97	-1.02	H	51.95	68.20	16.25	PK
15540	52.36	-1.27	H	51.09	73.98	22.89	PK
15540	38.49	-1.27	H	37.22	53.98	16.76	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	53.67	-0.29	V	53.38	68.20	14.82	PK
15600	52.79	-3.24	V	49.55	73.98	24.43	PK
15600	39.03	-3.24	V	35.79	53.98	18.19	AV
10400	52.62	-0.29	H	52.33	68.20	15.87	PK
15600	53.00	-3.24	H	49.76	73.98	24.22	PK
15600	39.17	-3.24	H	35.93	53.98	18.05	AV

Report No.: HCT-RF-1812-FC031

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	54.15	-3.09	V	51.06	68.20	17.14	PK
15720	53.00	-3.17	V	49.83	73.98	24.15	PK
15720	39.38	-3.17	V	36.21	53.98	17.77	AV
10480	53.28	-3.09	H	50.19	68.20	18.01	PK
15720	52.19	-3.17	H	49.02	73.98	24.96	PK
15720	39.21	-3.17	H	36.04	53.98	17.94	AV

Report No.: HCT-RF-1812-FC031

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	53.36	-1.02	V	52.34	68.20	15.86	PK
15540	51.64	-1.27	V	50.37	73.98	23.61	PK
15540	38.22	-1.27	V	36.95	53.98	17.03	AV
10360	53.11	-1.02	H	52.09	68.20	16.11	PK
15540	51.69	-1.27	H	50.42	73.98	23.56	PK
15540	38.35	-1.27	H	37.08	53.98	16.90	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	52.95	-0.29	V	52.66	68.20	15.54	PK
15600	52.65	-3.24	V	49.41	73.98	24.57	PK
15600	38.89	-3.24	V	35.65	53.98	18.33	AV
10400	51.17	-0.29	H	50.88	68.20	17.32	PK
15600	52.98	-3.24	H	49.74	73.98	24.24	PK
15600	39.11	-3.24	H	35.87	53.98	18.11	AV

Report No.: HCT-RF-1812-FC031

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	55.18	-3.09	V	52.09	68.20	16.11	PK
15720	52.68	-3.17	V	49.51	73.98	24.47	PK
15720	39.25	-3.17	V	36.08	53.98	17.90	AV
10480	53.55	-3.09	H	50.46	68.20	17.74	PK
15720	53.11	-3.17	H	49.94	73.98	24.04	PK
15720	39.29	-3.17	H	36.12	53.98	17.86	AV

Report No.: HCT-RF-1812-FC031

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	53.18	-1.02	V	52.16	68.20	16.04	PK
15540	52.13	-1.27	V	50.86	73.98	23.12	PK
15540	38.19	-1.27	V	36.92	53.98	17.06	AV
10360	52.89	-1.02	H	51.87	68.20	16.33	PK
15540	52.75	-1.27	H	51.48	73.98	22.50	PK
15540	38.29	-1.27	H	37.02	53.98	16.96	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	52.74	-0.29	V	52.45	68.20	15.75	PK
15600	52.48	-3.24	V	49.24	73.98	24.74	PK
15600	38.93	-3.24	V	35.69	53.98	18.29	AV
10400	52.10	-0.29	H	51.81	68.20	16.39	PK
15600	53.11	-3.24	H	49.87	73.98	24.11	PK
15600	39.21	-3.24	H	35.97	53.98	18.01	AV

Report No.: HCT-RF-1812-FC031

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	54.49	-3.09	V	51.40	68.20	16.80	PK
15720	53.02	-3.17	V	49.85	73.98	24.13	PK
15720	39.22	-3.17	V	36.05	53.98	17.93	AV
10480	53.54	-3.09	H	50.45	68.20	17.75	PK
15720	53.28	-3.17	H	50.11	73.98	23.87	PK
15720	39.26	-3.17	H	36.09	53.98	17.89	AV

Report No.: HCT-RF-1812-FC031

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]	A.F.+C.L.-A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10380	54.27	-1.29	V	52.98	68.20	15.22	PK
15570	52.35	-1.21	V	51.14	73.98	22.84	PK
15570	39.56	-1.21	V	38.35	53.98	15.63	AV
10380	54.44	-1.29	H	53.15	68.20	15.05	PK
15570	52.91	-1.21	H	51.70	73.98	22.28	PK
15570	39.59	-1.21	H	38.38	53.98	15.60	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]	A.F.+C.L.-A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10460	54.01	-1.52	V	52.49	68.20	15.71	PK
15690	50.86	-1.90	V	48.96	73.98	25.02	PK
15690	40.39	-1.90	V	38.49	53.98	15.49	AV
10460	53.41	-1.52	H	51.89	68.20	16.31	PK
15690	53.45	-1.90	H	51.55	73.98	22.43	PK
15690	40.37	-1.90	H	38.47	53.98	15.51	AV

Report No.: HCT-RF-1812-FC031

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]	A.F.+C.L.-A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10380	54.08	-1.29	V	52.79	68.20	15.41	PK
15570	51.69	-1.21	V	50.48	73.98	23.50	PK
15570	39.51	-1.21	V	38.30	53.98	15.68	AV
10380	53.68	-1.29	H	52.39	68.20	15.81	PK
15570	53.48	-1.21	H	52.27	73.98	21.71	PK
15570	39.43	-1.21	H	38.22	53.98	15.76	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]	A.F.+C.L.-A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10460	55.09	-1.52	V	53.57	68.20	14.63	PK
15690	53.64	-1.90	V	51.74	73.98	22.24	PK
15690	40.45	-1.90	V	38.55	53.98	15.43	AV
10460	51.68	-1.52	H	50.16	68.20	18.04	PK
15690	52.48	-1.90	H	50.58	73.98	23.40	PK
15690	40.29	-1.90	H	38.39	53.98	15.59	AV

Report No.: HCT-RF-1812-FC031

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]	A.F.+C.L.-A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10420	53.12	-1.73	V	51.39	68.20	16.81	PK
15630	53.47	-1.86	V	51.61	73.98	22.37	PK
15630	41.14	-1.86	V	39.28	53.98	14.70	AV
10420	54.04	-1.73	H	52.31	68.20	15.89	PK
15630	53.83	-1.86	H	51.97	73.98	22.01	PK
15630	41.45	-1.86	H	39.59	53.98	14.39	AV

Report No.: HCT-RF-1812-FC031

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	53.76	-1.52	V	52.24	68.20	15.96	PK
15780	53.05	-2.64	V	50.41	73.98	23.57	PK
15780	39.32	-2.64	V	36.68	53.98	17.30	AV
10520	53.16	-1.52	H	51.64	68.20	16.56	PK
15780	52.05	-2.64	H	49.41	73.98	24.57	PK
15780	39.17	-2.64	H	36.53	53.98	17.45	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	53.35	-1.32	V	52.03	73.98	21.95	PK
10600	39.73	-1.32	V	38.41	53.98	15.57	AV
15900	51.23	-1.51	V	49.72	73.98	24.26	PK
15900	38.12	-1.51	V	36.61	53.98	17.37	AV
10600	53.84	-1.32	H	52.52	73.98	21.46	PK
10600	39.93	-1.32	H	38.61	53.98	15.37	AV
15900	51.79	-1.51	H	50.28	73.98	23.70	PK
15900	38.32	-1.51	H	36.81	53.98	17.17	AV

Report No.: HCT-RF-1812-FC031

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	52.28	-1.01	V	51.27	73.98	22.71	PK
10640	39.29	-1.01	V	38.28	53.98	15.70	AV
15960	53.68	-2.17	V	51.51	73.98	22.47	PK
15960	38.83	-2.17	V	36.66	53.98	17.32	AV
10640	53.73	-1.01	H	52.72	73.98	21.26	PK
10640	39.51	-1.01	H	38.50	53.98	15.48	AV
15960	53.38	-2.17	H	51.21	73.98	22.77	PK
15960	39.41	-2.17	H	37.24	53.98	16.74	AV

Report No.: HCT-RF-1812-FC031

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	53.55	-1.52	V	52.03	68.20	16.17	PK
15780	53.19	-2.64	V	50.55	73.98	23.43	PK
15780	39.29	-2.64	V	36.65	53.98	17.33	AV
10520	52.46	-1.52	H	50.94	68.20	17.26	PK
15780	52.58	-2.64	H	49.94	73.98	24.04	PK
15780	39.21	-2.64	H	36.57	53.98	17.41	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	53.65	-1.32	V	52.33	73.98	21.65	PK
10600	39.81	-1.32	V	38.49	53.98	15.49	AV
15900	52.58	-1.51	V	51.07	73.98	22.91	PK
15900	38.10	-1.51	V	36.59	53.98	17.39	AV
10600	53.51	-1.32	H	52.19	73.98	21.79	PK
10600	39.89	-1.32	H	38.57	53.98	15.41	AV
15900	52.04	-1.51	H	50.53	73.98	23.45	PK
15900	38.25	-1.51	H	36.74	53.98	17.24	AV

Report No.: HCT-RF-1812-FC031

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	53.67	-1.01	V	52.66	73.98	21.32	PK
10640	39.38	-1.01	V	38.37	53.98	15.61	AV
15960	53.52	-2.17	V	51.35	73.98	22.63	PK
15960	38.78	-2.17	V	36.61	53.98	17.37	AV
10640	54.11	-1.01	H	53.10	73.98	20.88	PK
10640	39.45	-1.01	H	38.44	53.98	15.54	AV
15960	52.66	-2.17	H	50.49	73.98	23.49	PK
15960	39.25	-2.17	H	37.08	53.98	16.90	AV

Report No.: HCT-RF-1812-FC031

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	54.09	-1.52	V	52.57	68.20	15.63	PK
15780	52.46	-2.64	V	49.82	73.98	24.16	PK
15780	39.24	-2.64	V	36.60	53.98	17.38	AV
10520	50.48	-1.52	H	48.96	68.20	19.24	PK
15780	53.44	-2.64	H	50.80	73.98	23.18	PK
15780	39.31	-2.64	H	36.67	53.98	17.31	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	52.89	-1.32	V	51.57	73.98	22.41	PK
10600	39.84	-1.32	V	38.52	53.98	15.46	AV
15900	52.94	-1.51	V	51.43	73.98	22.55	PK
15900	38.15	-1.51	V	36.64	53.98	17.34	AV
10600	53.22	-1.32	H	51.90	73.98	22.08	PK
10600	39.79	-1.32	H	38.47	53.98	15.51	AV
15900	52.18	-1.51	H	50.67	73.98	23.31	PK
15900	38.20	-1.51	H	36.69	53.98	17.29	AV

Report No.: HCT-RF-1812-FC031

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	52.99	-1.01	V	51.98	73.98	22.00	PK
10640	39.14	-1.01	V	38.13	53.98	15.85	AV
15960	52.68	-2.17	V	50.51	73.98	23.47	PK
15960	39.00	-2.17	V	36.83	53.98	17.15	AV
10640	53.68	-1.01	H	52.67	73.98	21.31	PK
10640	39.26	-1.01	H	38.25	53.98	15.73	AV
15960	52.94	-2.17	H	50.77	73.98	23.21	PK
15960	39.16	-2.17	H	36.99	53.98	16.99	AV

Report No.: HCT-RF-1812-FC031

Band : UNII 2A
 Operation Mode: 802.11 n(HT40)
 Transfer MCS Index: 0
 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	52.87	-1.03	V	51.84	68.20	16.36	PK
15810	52.50	-2.29	V	50.21	73.98	23.77	PK
15810	39.50	-2.29	V	37.21	53.98	16.77	AV
10540	53.09	-1.03	H	52.06	68.20	16.14	PK
15810	52.13	-2.29	H	49.84	73.98	24.14	PK
15810	39.52	-2.29	H	37.23	53.98	16.75	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]	A.F.+C.L.-A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10620	53.14	-2.36	V	50.78	73.98	23.20	PK
10620	40.71	-2.36	V	38.35	53.98	15.63	AV
15930	52.07	-1.95	V	50.12	73.98	23.86	PK
15930	39.59	-1.95	V	37.64	53.98	16.34	AV
10620	53.90	-2.36	H	51.54	73.98	22.44	PK
10620	40.63	-2.36	H	38.27	53.98	15.71	AV
15930	53.34	-1.95	H	51.39	73.98	22.59	PK
15930	39.66	-1.95	H	37.71	53.98	16.27	AV

Report No.: HCT-RF-1812-FC031

Band : UNII 2A
 Operation Mode: 802.11 ac(VHT40)
 Transfer MCS Index: 0
 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	54.19	-1.03	V	53.16	68.20	15.04	PK
15810	52.64	-2.29	V	50.35	73.98	23.63	PK
15810	39.45	-2.29	V	37.16	53.98	16.82	AV
10540	52.34	-1.03	H	51.31	68.20	16.89	PK
15810	53.29	-2.29	H	51.00	73.98	22.98	PK
15810	39.60	-2.29	H	37.31	53.98	16.67	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]	A.F.+C.L.-A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10620	52.90	-2.36	V	50.54	73.98	23.44	PK
10620	40.65	-2.36	V	38.29	53.98	15.69	AV
15930	52.67	-1.95	V	50.72	73.98	23.26	PK
15930	39.70	-1.95	V	37.75	53.98	16.23	AV
10620	52.55	-2.36	H	50.19	73.98	23.79	PK
10620	40.60	-2.36	H	38.24	53.98	15.74	AV
15930	52.84	-1.95	H	50.89	73.98	23.09	PK
15930	39.61	-1.95	H	37.66	53.98	16.32	AV

Report No.: HCT-RF-1812-FC031

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]	A.F.+C.L.-A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10580	54.17	-0.75	V	53.42	68.20	14.78	PK
15870	54.00	-2.64	V	51.36	73.98	22.62	PK
15870	41.71	-2.64	V	39.07	53.98	14.91	AV
10580	53.83	-0.75	H	53.08	68.20	15.12	PK
15870	53.94	-2.64	H	51.30	73.98	22.68	PK
15870	41.60	-2.64	H	38.96	53.98	15.02	AV

Report No.: HCT-RF-1812-FC031

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	53.50	0.37	V	53.87	73.98	20.11	PK
11000	39.52	0.37	V	39.89	53.98	14.09	AV
16500	51.48	0.03	V	51.51	68.20	16.69	PK
11000	53.80	0.37	H	54.17	73.98	19.81	PK
11000	39.65	0.37	H	40.02	53.98	13.96	AV
16500	51.91	0.03	H	51.94	68.20	16.26	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	52.25	-1.31	V	50.94	73.98	23.04	PK
11200	39.44	-1.31	V	38.13	53.98	15.85	AV
16800	51.85	1.66	V	53.51	68.20	14.69	PK
11200	53.90	-1.31	H	52.59	73.98	21.39	PK
11200	39.69	-1.31	H	38.38	53.98	15.60	AV
16800	51.43	1.66	H	53.09	68.20	15.11	PK

Report No.: HCT-RF-1812-FC031

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	53.21	0.22	V	53.43	73.98	20.55	PK
11440	39.75	0.22	V	39.97	53.98	14.01	AV
17160	50.78	1.94	V	52.72	68.20	15.48	PK
11440	53.33	0.22	H	53.55	73.98	20.43	PK
11440	39.77	0.22	H	39.99	53.98	13.99	AV
17160	52.08	1.94	H	54.02	68.20	14.18	PK

Report No.: HCT-RF-1812-FC031

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	53.22	0.37	V	53.59	73.98	20.39	PK
11000	39.48	0.37	V	39.85	53.98	14.13	AV
16500	52.51	0.03	V	52.54	68.20	15.66	PK
11000	53.05	0.37	H	53.42	73.98	20.56	PK
11000	39.45	0.37	H	39.82	53.98	14.16	AV
16500	51.97	0.03	H	52.00	68.20	16.20	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	52.85	-1.31	V	51.54	73.98	22.44	PK
11200	39.51	-1.31	V	38.20	53.98	15.78	AV
16800	51.99	1.66	V	53.65	68.20	14.55	PK
11200	53.51	-1.31	H	52.20	73.98	21.78	PK
11200	39.66	-1.31	H	38.35	53.98	15.63	AV
16800	52.05	1.66	H	53.71	68.20	14.49	PK

Report No.: HCT-RF-1812-FC031

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	53.61	0.22	V	53.83	73.98	20.15	PK
11440	39.71	0.22	V	39.93	53.98	14.05	AV
17160	51.38	1.94	V	53.32	68.20	14.88	PK
11440	52.84	0.22	H	53.06	73.98	20.92	PK
11440	39.68	0.22	H	39.90	53.98	14.08	AV
17160	52.25	1.94	H	54.19	68.20	14.01	PK

Report No.: HCT-RF-1812-FC031

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	53.19	0.37	V	53.56	73.98	20.42	PK
11000	39.38	0.37	V	39.75	53.98	14.23	AV
16500	52.61	0.03	V	52.64	68.20	15.56	PK
11000	52.43	0.37	H	52.80	73.98	21.18	PK
11000	39.41	0.37	H	39.78	53.98	14.20	AV
16500	52.35	0.03	H	52.38	68.20	15.82	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	52.91	-1.31	V	51.60	73.98	22.38	PK
11200	39.45	-1.31	V	38.14	53.98	15.84	AV
16800	52.68	1.66	V	54.34	68.20	13.86	PK
11200	52.68	-1.31	H	51.37	73.98	22.61	PK
11200	39.59	-1.31	H	38.28	53.98	15.70	AV
16800	53.13	1.66	H	54.79	68.20	13.41	PK

Report No.: HCT-RF-1812-FC031

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	52.31	0.22	V	52.53	73.98	21.45	PK
11440	39.63	0.22	V	39.85	53.98	14.13	AV
17160	52.08	1.94	V	54.02	68.20	14.18	PK
11440	53.19	0.22	H	53.41	73.98	20.57	PK
11440	39.55	0.22	H	39.77	53.98	14.21	AV
17160	51.62	1.94	H	53.56	68.20	14.64	PK

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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]	A.F.+C.L.-A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11020	50.56	0.07	V	50.63	73.98	23.35	PK
11020	39.68	0.07	V	39.75	53.98	14.23	AV
16530	53.21	-0.71	V	52.50	68.20	15.70	PK
11020	52.46	0.07	H	52.53	73.98	21.45	PK
11020	39.78	0.07	H	39.85	53.98	14.13	AV
16530	53.09	-0.71	H	52.38	68.20	15.82	PK

Band : UNII 2C
 Operation Mode: 802.11 n(HT40)
 Transfer MCS Index: 0
 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	52.53	-1.03	V	51.50	73.98	22.48	PK
11180	40.18	-1.03	V	39.15	53.98	14.83	AV
16770	51.63	2.85	V	54.48	68.20	13.72	PK
11180	53.42	-1.03	H	52.39	73.98	21.59	PK
11180	40.35	-1.03	H	39.32	53.98	14.66	AV
16770	51.57	2.85	H	54.42	68.20	13.78	PK

Report No.: HCT-RF-1812-FC031

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]	A.F.+C.L.-A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11420	53.85	-0.15	V	53.70	73.98	20.28	PK
11420	40.26	-0.15	V	40.11	53.98	13.87	AV
17130	51.24	4.39	V	55.63	68.20	12.57	PK
11420	53.63	-0.15	H	53.48	73.98	20.50	PK
11420	40.06	-0.15	H	39.91	53.98	14.07	AV
17130	50.16	4.39	H	54.55	68.20	13.65	PK

Report No.: HCT-RF-1812-FC031

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]	A.F.+C.L.-A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11020	52.68	0.07	V	52.75	73.98	21.23	PK
11020	39.62	0.07	V	39.69	53.98	14.29	AV
16530	54.19	-0.71	V	53.48	68.20	14.72	PK
11020	53.15	0.07	H	53.22	73.98	20.76	PK
11020	39.71	0.07	H	39.78	53.98	14.20	AV
16530	52.65	-0.71	H	51.94	68.20	16.26	PK

Band : UNII 2C
 Operation Mode: 802.11 ac(VHT40)
 Transfer MCS Index: 0
 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	53.61	-1.03	V	52.58	73.98	21.40	PK
11180	40.41	-1.03	V	39.38	53.98	14.60	AV
16770	52.49	2.85	V	55.34	68.20	12.86	PK
11180	54.48	-1.03	H	53.45	73.98	20.53	PK
11180	40.50	-1.03	H	39.47	53.98	14.51	AV
16770	52.55	2.85	H	55.40	68.20	12.80	PK

Report No.: HCT-RF-1812-FC031

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]	A.F.+C.L.-A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11420	52.49	-0.15	V	52.34	73.98	21.64	PK
11420	40.30	-0.15	V	40.15	53.98	13.83	AV
17130	50.99	4.39	V	55.38	68.20	12.82	PK
11420	52.09	-0.15	H	51.94	73.98	22.04	PK
11420	40.19	-0.15	H	40.04	53.98	13.94	AV
17130	50.48	4.39	H	54.87	68.20	13.33	PK

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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]	A.F.+C.L.-A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11060	53.23	-0.38	V	52.85	73.98	21.13	PK
11060	41.15	-0.38	V	40.77	53.98	13.21	AV
16590	51.38	1.18	V	52.56	68.20	15.64	PK
11060	52.68	-0.38	H	52.30	73.98	21.68	PK
11060	41.07	-0.38	H	40.69	53.98	13.29	AV
16590	51.66	1.18	H	52.84	68.20	15.36	PK

Band : UNII 2C
 Operation Mode: 802.11 ac(VHT80)
 Transfer MCS Index: 0
 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	53.47	-0.42	V	53.05	73.98	20.93	PK
11220	41.75	-0.42	V	41.33	53.98	12.65	AV
16830	52.81	2.52	V	55.33	68.20	12.87	PK
11220	52.62	-0.42	H	52.20	73.98	21.78	PK
11220	41.70	-0.42	H	41.28	53.98	12.70	AV
16830	53.34	2.52	H	55.86	68.20	12.34	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]	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	-0.42	V	52.82	73.98	21.16	PK
11380	41.24	-0.42	V	40.82	53.98	13.16	AV
17070	51.89	2.52	V	54.41	68.20	13.79	PK
11380	52.83	-0.42	H	52.41	73.98	21.57	PK
11380	41.42	-0.42	H	41.00	53.98	12.98	AV
17070	52.43	2.52	H	54.95	68.20	13.25	PK

Report No.: HCT-RF-1812-FC031

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	53.10	-0.59	V	52.51	73.98	21.47	PK
11490	39.60	-0.59	V	39.01	53.98	14.97	AV
17235	51.38	3.63	V	55.01	68.20	13.19	PK
11490	52.86	-0.59	H	52.27	73.98	21.71	PK
11490	39.65	-0.59	H	39.06	53.98	14.92	AV
17235	51.15	3.63	H	54.78	68.20	13.42	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	52.82	-0.97	V	51.85	73.98	22.13	PK
11570	39.25	-0.97	V	38.28	53.98	15.70	AV
17355	50.31	5.02	V	55.33	68.20	12.87	PK
11570	53.18	-0.97	H	52.21	73.98	21.77	PK
11570	39.40	-0.97	H	38.43	53.98	15.55	AV
17355	50.38	5.02	H	55.40	68.20	12.80	PK

Report No.: HCT-RF-1812-FC031

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	53.60	-1.70	V	51.90	73.98	22.08	PK
11650	40.12	-1.70	V	38.42	53.98	15.56	AV
17475	52.10	5.75	V	57.85	68.20	10.35	PK
11650	53.45	-1.70	H	51.75	73.98	22.23	PK
11650	39.83	-1.70	H	38.13	53.98	15.85	AV
17475	51.66	5.75	H	57.41	68.20	10.79	PK

Report No.: HCT-RF-1812-FC031

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	52.64	-0.59	V	52.05	73.98	21.93	PK
11490	39.45	-0.59	V	38.86	53.98	15.12	AV
17235	52.19	3.63	V	55.82	68.20	12.38	PK
11490	53.11	-0.59	H	52.52	73.98	21.46	PK
11490	39.58	-0.59	H	38.99	53.98	14.99	AV
17235	50.59	3.63	H	54.22	68.20	13.98	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	53.11	-0.97	V	52.14	73.98	21.84	PK
11570	39.35	-0.97	V	38.38	53.98	15.60	AV
17355	50.82	5.02	V	55.84	68.20	12.36	PK
11570	52.46	-0.97	H	51.49	73.98	22.49	PK
11570	39.28	-0.97	H	38.31	53.98	15.67	AV
17355	51.68	5.02	H	56.70	68.20	11.50	PK

Report No.: HCT-RF-1812-FC031

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	51.67	-1.70	V	49.97	73.98	24.01	PK
11650	39.95	-1.70	V	38.25	53.98	15.73	AV
17475	51.25	5.75	V	57.00	68.20	11.20	PK
11650	52.68	-1.70	H	50.98	73.98	23.00	PK
11650	40.08	-1.70	H	38.38	53.98	15.60	AV
17475	51.71	5.75	H	57.46	68.20	10.74	PK

Report No.: HCT-RF-1812-FC031

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	52.08	-0.59	V	51.49	73.98	22.49	PK
11490	39.49	-0.59	V	38.90	53.98	15.08	AV
17235	52.15	3.63	V	55.78	68.20	12.42	PK
11490	51.55	-0.59	H	50.96	73.98	23.02	PK
11490	39.55	-0.59	H	38.96	53.98	15.02	AV
17235	51.23	3.63	H	54.86	68.20	13.34	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	51.74	-0.97	V	50.77	73.98	23.21	PK
11570	39.29	-0.97	V	38.32	53.98	15.66	AV
17355	51.95	5.02	V	56.97	68.20	11.23	PK
11570	53.10	-0.97	H	52.13	73.98	21.85	PK
11570	39.25	-0.97	H	38.28	53.98	15.70	AV
17355	51.77	5.02	H	56.79	68.20	11.41	PK

Report No.: HCT-RF-1812-FC031

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	51.89	-1.70	V	50.19	73.98	23.79	PK
11650	39.99	-1.70	V	38.29	53.98	15.69	AV
17475	50.64	5.75	V	56.39	68.20	11.81	PK
11650	53.48	-1.70	H	51.78	73.98	22.20	PK
11650	40.16	-1.70	H	38.46	53.98	15.52	AV
17475	51.61	5.75	H	57.36	68.20	10.84	PK

Report No.: HCT-RF-1812-FC031

Band : UNII 3
 Operation Mode: 802.11 n(HT40)
 Transfer MCS Index: 0
 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	52.94	-0.63	V	52.31	73.98	21.67	PK
11510	40.55	-0.63	V	39.92	53.98	14.06	AV
17265	50.54	4.53	V	55.07	68.20	13.13	PK
11510	53.89	-0.63	H	53.26	73.98	20.72	PK
11510	40.66	-0.63	H	40.03	53.98	13.95	AV
17265	51.62	4.53	H	56.15	68.20	12.05	PK

Band : UNII 3
 Operation Mode: 802.11 n(HT40)
 Transfer MCS Index: 0
 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	52.52	-0.53	V	51.99	73.98	21.99	PK
11590	40.11	-0.53	V	39.58	53.98	14.40	AV
17385	50.97	4.95	V	55.92	68.20	12.28	PK
11590	52.72	-0.53	H	52.19	73.98	21.79	PK
11590	40.35	-0.53	H	39.82	53.98	14.16	AV
17385	51.80	4.95	H	56.75	68.20	11.45	PK

Report No.: HCT-RF-1812-FC031

Band : UNII 3
 Operation Mode: 802.11 ac(VHT40)
 Transfer MCS Index: 0
 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	50.59	-0.63	V	49.96	73.98	24.02	PK
11510	40.59	-0.63	V	39.96	53.98	14.02	AV
17265	51.65	4.53	V	56.18	68.20	12.02	PK
11510	52.18	-0.63	H	51.55	73.98	22.43	PK
11510	40.51	-0.63	H	39.88	53.98	14.10	AV
17265	52.13	4.53	H	56.66	68.20	11.54	PK

Band : UNII 3
 Operation Mode: 802.11 ac(VHT40)
 Transfer MCS Index: 0
 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	53.19	-0.53	V	52.66	73.98	21.32	PK
11590	40.28	-0.53	V	39.75	53.98	14.23	AV
17385	50.74	4.95	V	55.69	68.20	12.51	PK
11590	53.28	-0.53	H	52.75	73.98	21.23	PK
11590	40.33	-0.53	H	39.80	53.98	14.18	AV
17385	51.59	4.95	H	56.54	68.20	11.66	PK

Report No.: HCT-RF-1812-FC031

Band : UNII 3
 Operation Mode: 802.11 ac(VHT80)
 Transfer MCS Index: 0
 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	53.45	-0.48	V	52.97	73.98	21.01	PK
11550	41.31	-0.48	V	40.83	53.98	13.15	AV
17325	50.59	5.28	V	55.87	68.20	12.33	PK
11550	53.58	-0.48	H	53.10	73.98	20.88	PK
11550	41.55	-0.48	H	41.07	53.98	12.91	AV
17325	51.15	5.28	H	56.43	68.20	11.77	PK

[RSDB]

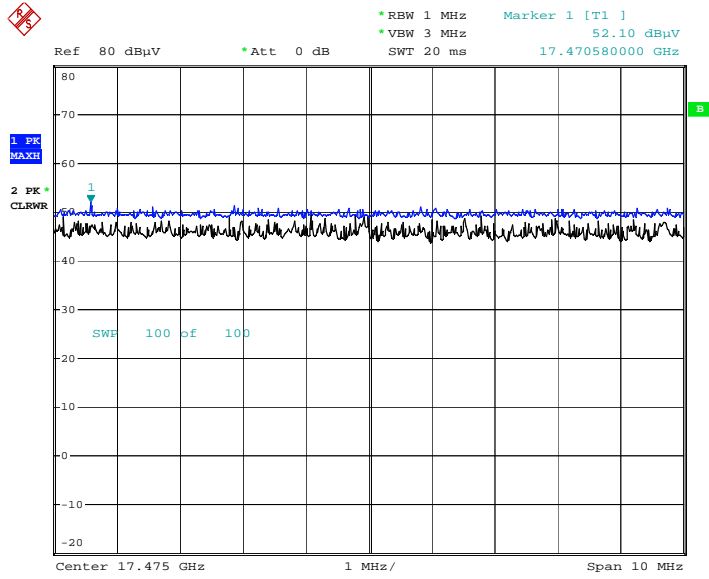
Operation Mode Antenna 1: 802.11b
 Transfer Rate: 1 Mbps
 Operating Frequency 2437 MHz
 Channel No. 6 Ch

Band : UNII 3
 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
4874	54.99	1.66	H	56.65	73.98	17.33	PK
4874	49.06	1.66	H	50.72	53.98	3.26	AV
7311	46.23	10.10	H	56.33	73.98	17.65	PK
7311	34.22	10.10	H	44.32	53.98	9.66	AV
11000	53.24	0.37	H	53.61	73.98	20.37	PK
11000	39.46	0.37	H	39.83	53.98	14.15	AV
16500	53.38	0.03	H	53.41	68.20	14.79	PK

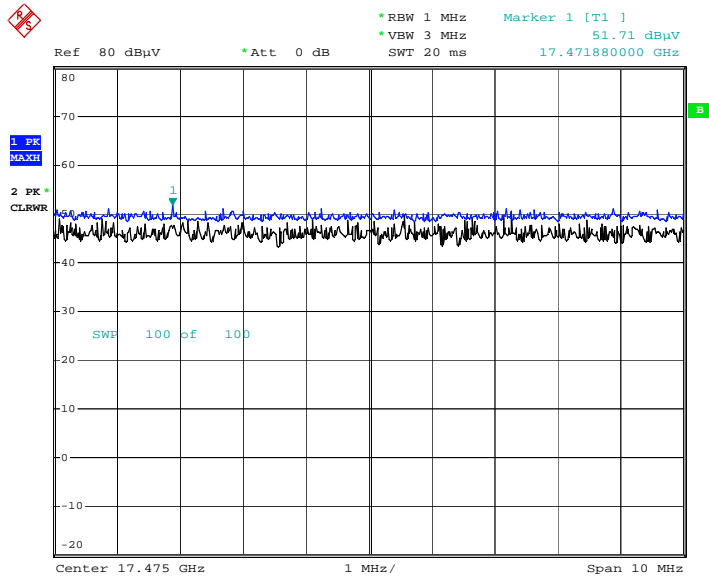
Test Plots

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



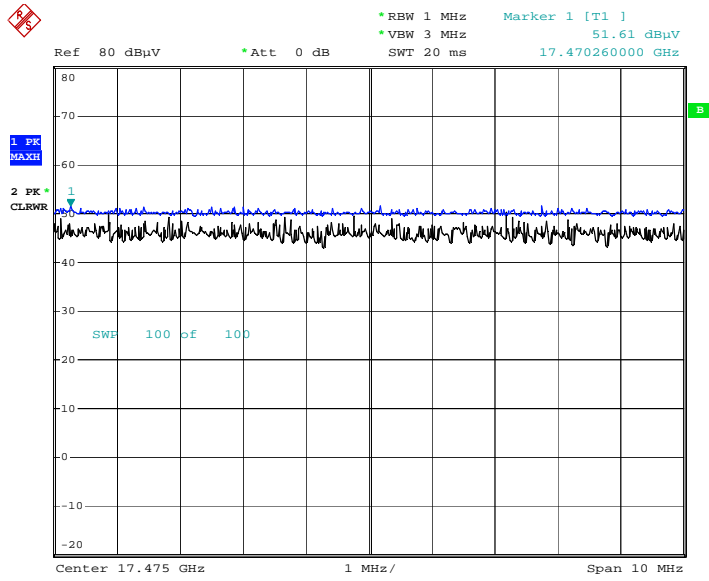
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Peak Reading (802.11n_HT20, Ch.165 3rd Harmonic, X-H)



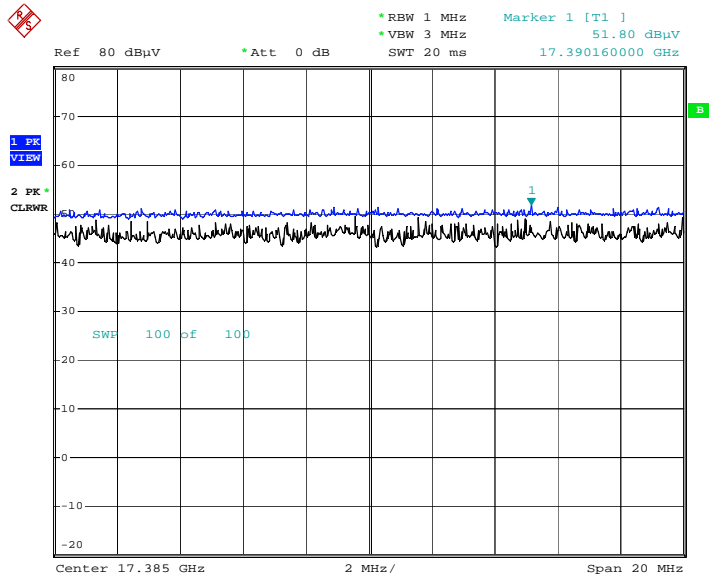
Date: 12.DEC.2018 09:33:47

Peak Reading (802.11ac_VHT20, Ch.165 3rd Harmonic, X-H)



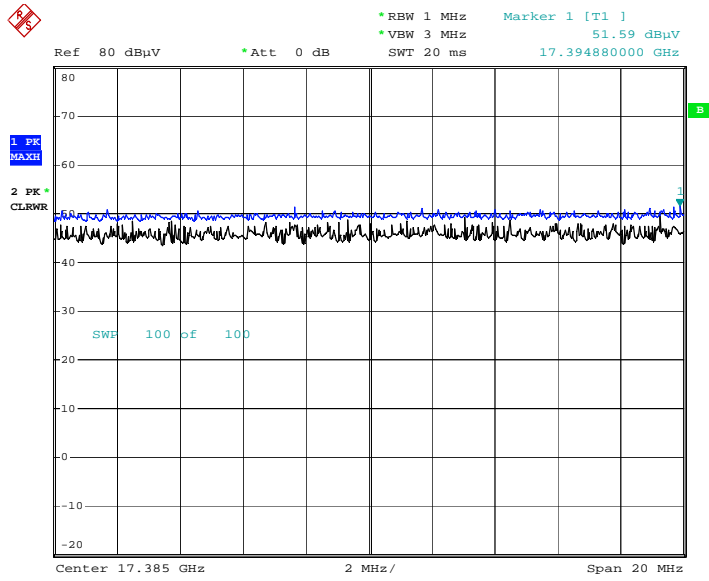
Date: 12.DEC.2018 09:35:03

Peak Reading (802.11n_HT40, Ch.159 3rd Harmonic, X-H)



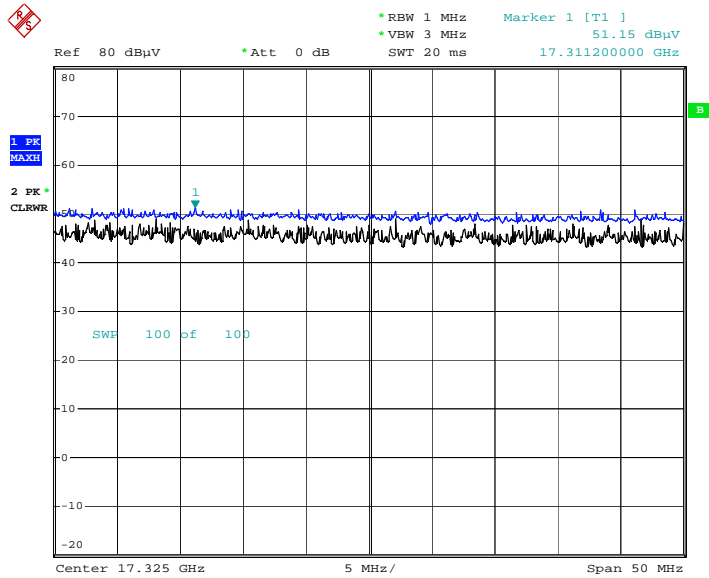
Date: 12.DEC.2018 09:26:07

Peak Reading (802.11ac_VHT40, Ch.159 3rd Harmonic, X-H)



Date: 12.DEC.2018 09:33:14

Peak Reading (802.11ac_VHT80, Ch.155 3rd Harmonic, X-H)

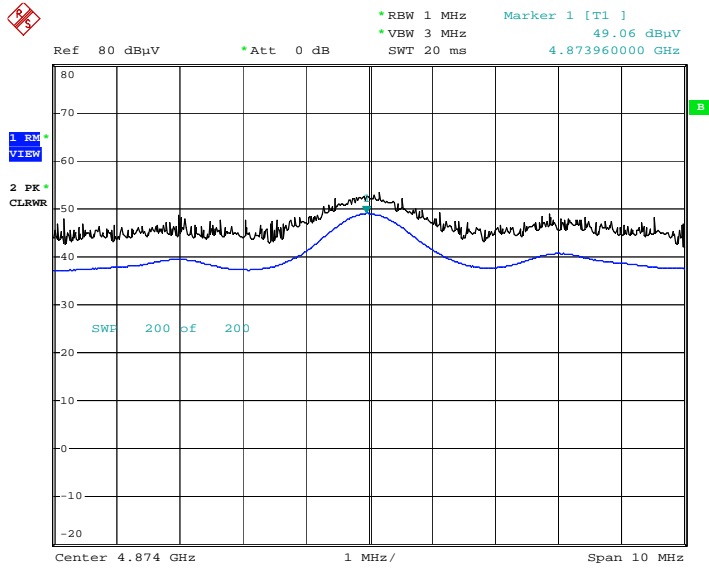


Date: 12.DEC.2018 09:32:08

Note : Only the worst case plots for Radiated Spurious Emissions.

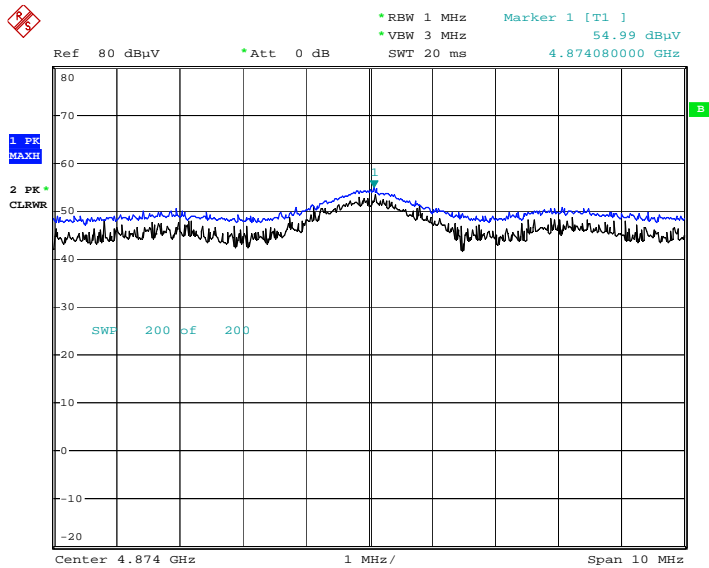
Test Plots (RSDB)

Average Reading (802.11b, Ch.6 2nd Harmonic, X-H)



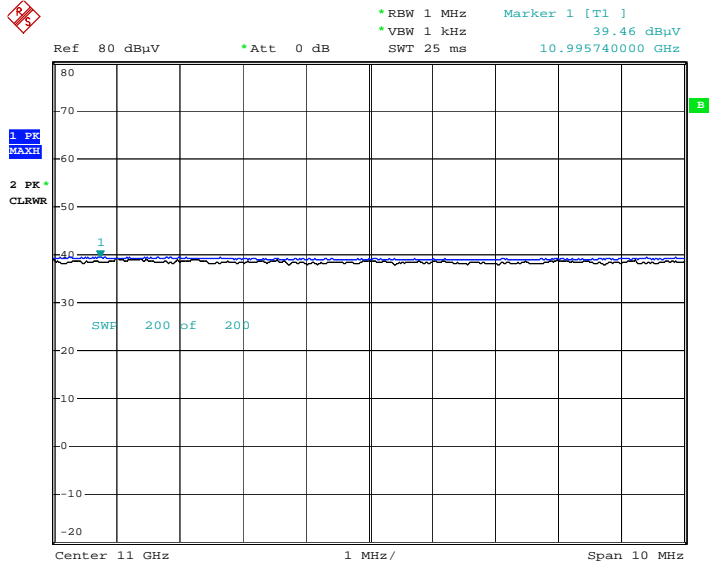
Date: 14.DEC.2018 08:28:19

Peak Reading (802.11b, Ch.6 2nd Harmonic, X-H)



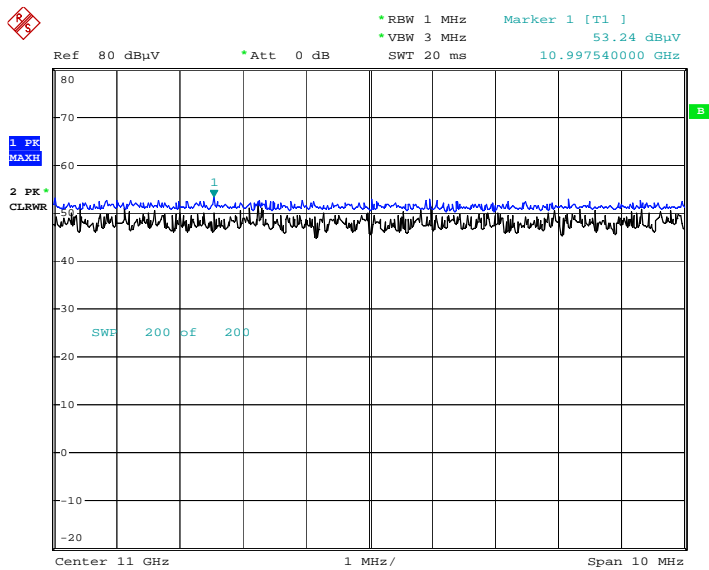
Date: 14.DEC.2018 08:29:03

Average Reading (802.11a, Ch.100 2nd Harmonic, Y-H)



Date: 14.DEC.2018 08:42:34

Peak Reading (802.11a, Ch.100 2nd Harmonic, X-H)



Date: 14.DEC.2018 08:42:54

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	50.32	5.07	H	55.39	73.98	18.59	PK
5150	37.55	5.07	H	42.62	53.98	11.36	AV
5150	50.51	5.07	V	55.58	73.98	18.40	PK
5150	37.64	5.07	V	42.71	53.98	11.27	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	AN.+CL+AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5150	50.91	5.07	H	55.98	73.98	18.00	PK
5150	37.79	5.07	H	42.86	53.98	11.12	AV
5150	50.38	5.07	V	55.45	73.98	18.53	PK
5150	37.70	5.07	V	42.77	53.98	11.21	AV

Report No.: HCT-RF-1812-FC031

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	49.65	5.07	H	54.72	73.98	19.26	PK
5150	36.91	5.07	H	41.98	53.98	12.00	AV
5150	49.46	5.07	V	54.53	73.98	19.45	PK
5150	36.88	5.07	V	41.95	53.98	12.03	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	AN.+CL+AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5150	52.45	5.07	H	57.52	73.98	16.46	PK
5150	39.54	5.07	H	44.61	53.98	9.37	AV
5150	52.55	5.07	V	57.62	73.98	16.36	PK
5150	40.22	5.07	V	45.29	53.98	8.69	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	AN.+CL+AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5150	51.98	5.07	H	57.05	73.98	16.93	PK
5150	40.32	5.07	H	45.39	53.98	8.59	AV
5150	53.80	5.07	V	58.87	73.98	15.11	PK
5150	40.40	5.07	V	45.47	53.98	8.51	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	AN.+CL+AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5150	50.63	5.07	H	55.70	73.98	18.28	PK
5150	39.66	5.07	H	44.73	53.98	9.25	AV
5150	50.37	5.07	V	55.44	73.98	18.54	PK
5150	40.23	5.07	V	45.3	53.98	8.68	AV

Report No.: HCT-RF-1812-FC031

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	50.81	4.42	H	55.23	73.98	18.75	PK
5350	36.82	4.42	H	41.24	53.98	12.74	AV
5350	51.16	4.42	V	55.58	73.98	18.40	PK
5350	37.10	4.42	V	41.52	53.98	12.46	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	49.75	4.42	H	54.17	73.98	19.81	PK
5350	37.09	4.42	H	41.51	53.98	12.47	AV
5350	50.89	4.42	V	55.31	73.98	18.67	PK
5350	37.35	4.42	V	41.77	53.98	12.21	AV

Report No.: HCT-RF-1812-FC031

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	48.57	4.42	H	52.99	73.98	20.99	PK
5350	36.88	4.42	H	41.3	53.98	12.68	AV
5350	49.98	4.42	V	54.4	73.98	19.58	PK
5350	36.99	4.42	V	41.41	53.98	12.57	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	51.67	4.42	H	56.09	73.98	17.89	PK
5350	40.28	4.42	H	44.7	53.98	9.28	AV
5350	52.16	4.42	V	56.58	73.98	17.40	PK
5350	40.53	4.42	V	44.95	53.98	9.03	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	50.88	4.42	H	55.30	73.98	18.68	PK
5350	39.52	4.42	H	43.94	53.98	10.04	AV
5350	51.55	4.42	V	55.97	73.98	18.01	PK
5350	39.74	4.42	V	44.16	53.98	9.82	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	54.51	4.42	H	58.93	73.98	15.05	PK
5350	43.44	4.42	H	47.86	53.98	6.12	AV
5350	54.57	4.42	V	58.99	73.98	14.99	PK
5350	44.00	4.42	V	48.42	53.98	5.56	AV

Report No.: HCT-RF-1812-FC031

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	49.55	5.72	H	55.27	73.98	18.71	PK
5460	36.11	5.72	H	41.83	53.98	12.15	AV
5470	50.58	5.26	H	55.84	68.20	12.36	PK
5460	49.27	5.72	V	54.99	73.98	18.99	PK
5460	35.83	5.72	V	41.55	53.98	12.43	AV
5470	50.12	5.26	V	55.38	68.20	12.82	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	AN.+CL+AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5460	49.16	5.72	H	54.88	73.98	19.10	PK
5460	35.90	5.72	H	41.62	53.98	12.36	AV
5470	50.47	5.26	H	55.73	68.20	12.47	PK
5460	48.91	5.72	V	54.63	73.98	19.35	PK
5460	35.83	5.72	V	41.55	53.98	12.43	AV
5470	49.57	5.26	V	54.83	68.20	13.37	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	AN.+CL+AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5460	49.07	5.72	H	54.79	73.98	19.19	PK
5460	35.73	5.72	H	41.45	53.98	12.53	AV
5470	50.10	5.26	H	55.36	68.20	12.84	PK
5460	48.50	5.72	V	54.22	73.98	19.76	PK
5460	35.71	5.72	V	41.43	53.98	12.55	AV
5470	48.93	5.26	V	54.19	68.20	14.01	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	AN.+CL+AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5460	49.47	5.72	H	55.19	73.98	18.79	PK
5460	36.46	5.72	H	42.18	53.98	11.80	AV
5470	50.70	5.26	H	55.96	68.20	12.24	PK
5460	49.67	5.72	V	55.39	73.98	18.59	PK
5460	36.43	5.72	V	42.15	53.98	11.83	AV
5470	50.62	5.26	V	55.88	68.20	12.32	PK

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

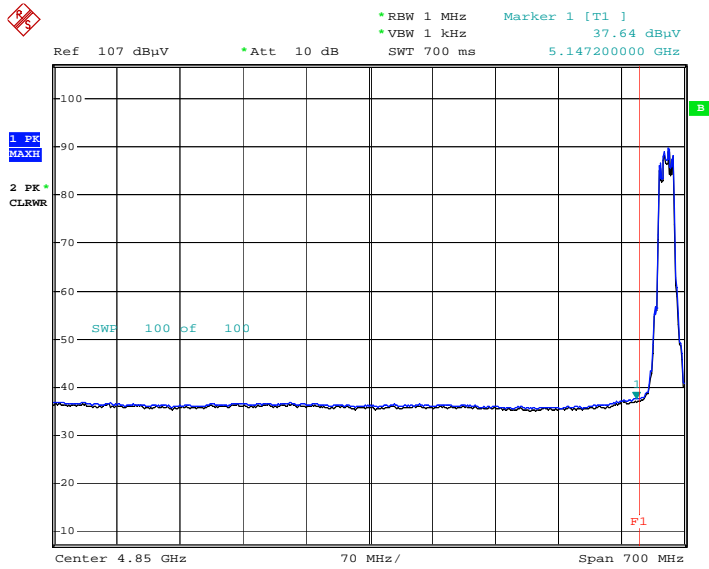
Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5460	49.89	5.72	H	55.61	73.98	18.37	PK
5460	36.41	5.72	H	42.13	53.98	11.85	AV
5470	51.40	5.26	H	56.66	68.20	11.54	PK
5460	48.82	5.72	V	54.54	73.98	19.44	PK
5460	36.37	5.72	V	42.09	53.98	11.89	AV
5470	50.42	5.26	V	55.68	68.20	12.52	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	AN.+CL+AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5460	49.00	5.72	H	54.72	73.98	19.26	PK
5460	37.90	5.72	H	43.62	53.98	10.36	AV
5470	54.19	5.26	H	59.45	68.20	8.75	PK
5460	48.85	5.72	V	54.57	73.98	19.41	PK
5460	37.54	5.72	V	43.26	53.98	10.72	AV
5470	52.83	5.26	V	58.09	68.20	10.11	PK

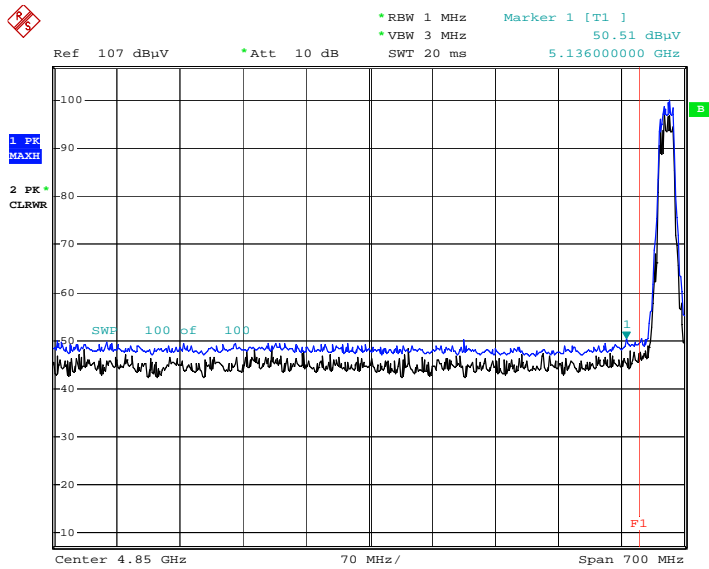
Test Plots(UNII 1, 2A, 2C)

Average Reading (802.11a, Ch.36, Y-V)



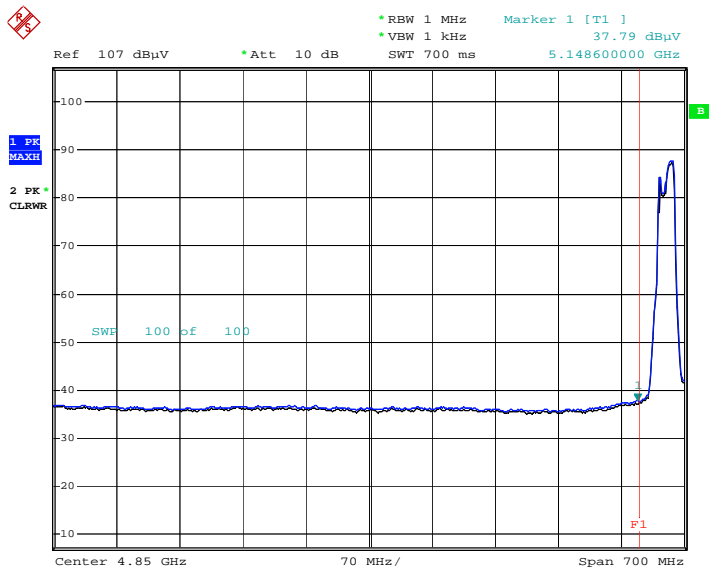
Date: 11.DEC.2018 14:08:32

Peak Reading (802.11a, Ch.36, Y-V)



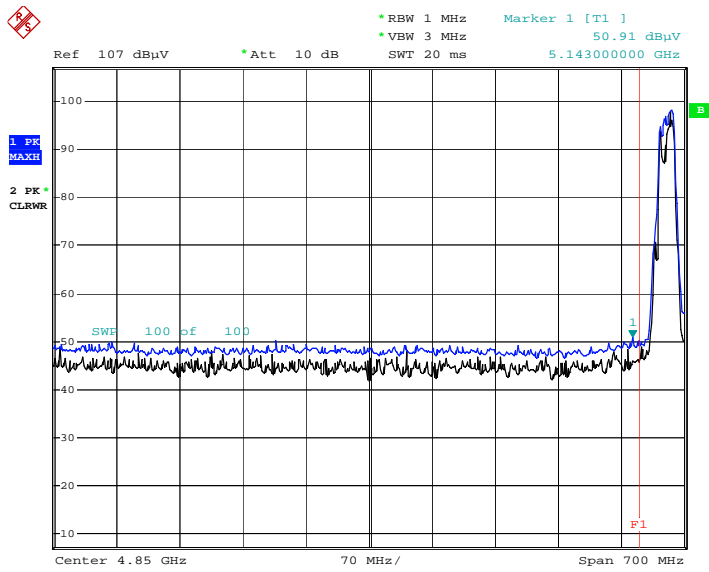
Date: 11.DEC.2018 14:09:24

Average Reading (802.11n_HT20, Ch.36, Z-H)



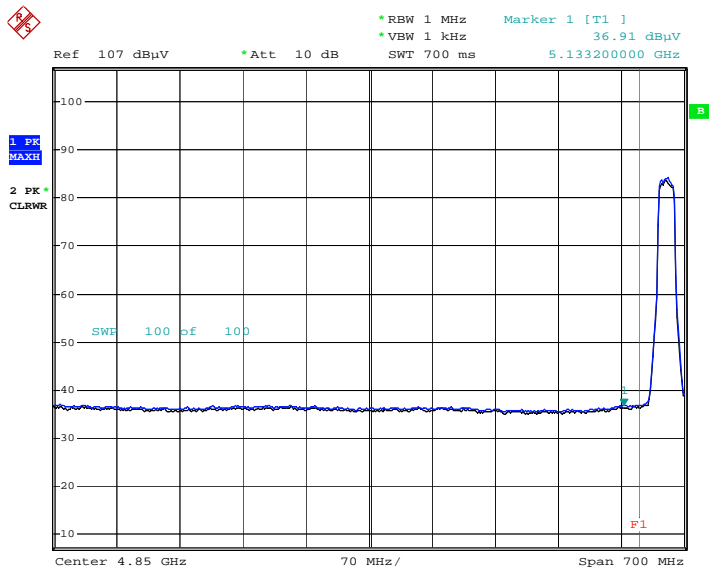
Date: 11.DEC.2018 14:12:33

Peak Reading (802.11n_HT20, Ch.36, Z-H)



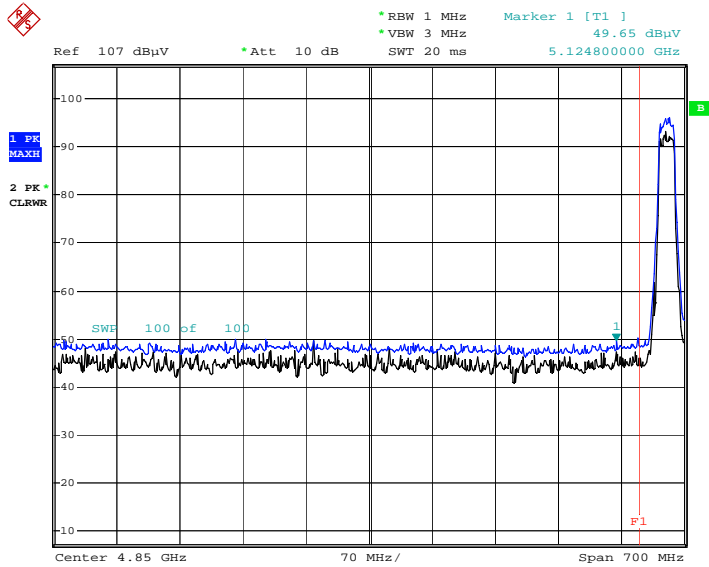
Date: 11.DEC.2018 14:13:21

Average Reading (802.11ac_VHT20, Ch.36, Z-H)



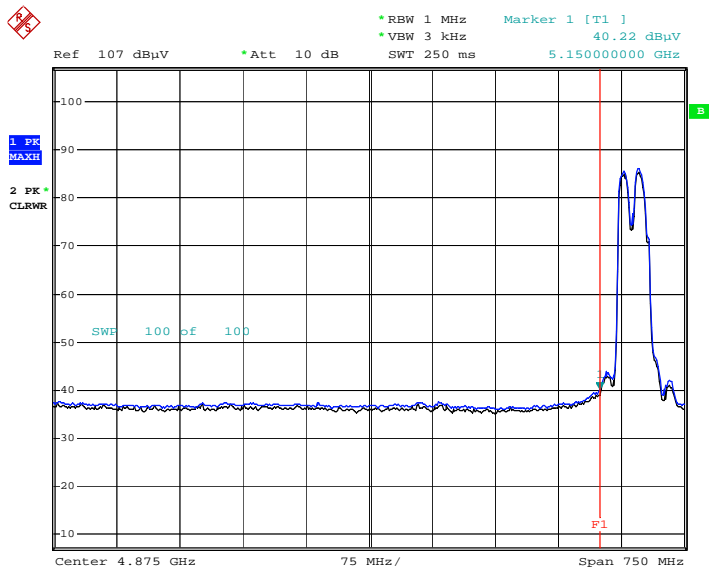
Date: 11.DEC.2018 14:16:41

Peak Reading (802.11ac_VHT20, Ch.36, Z-H)



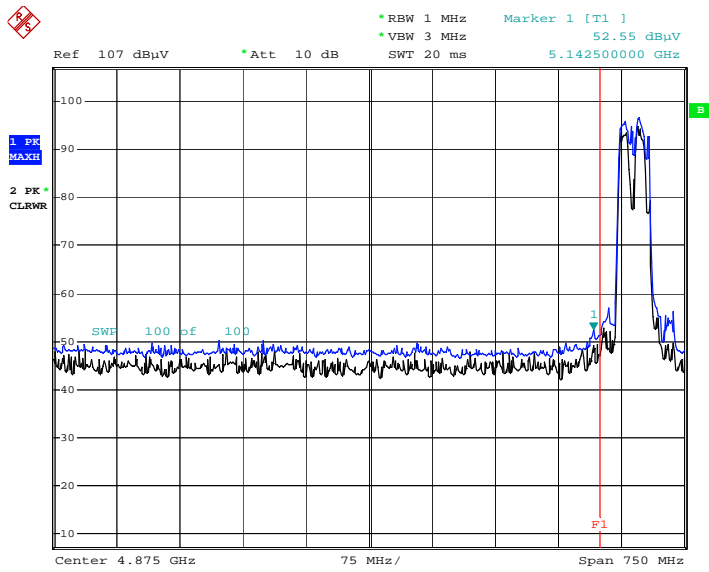
Date: 11.DEC.2018 14:14:44

Average Reading (802.11n_HT40, Ch.38, Y-V)



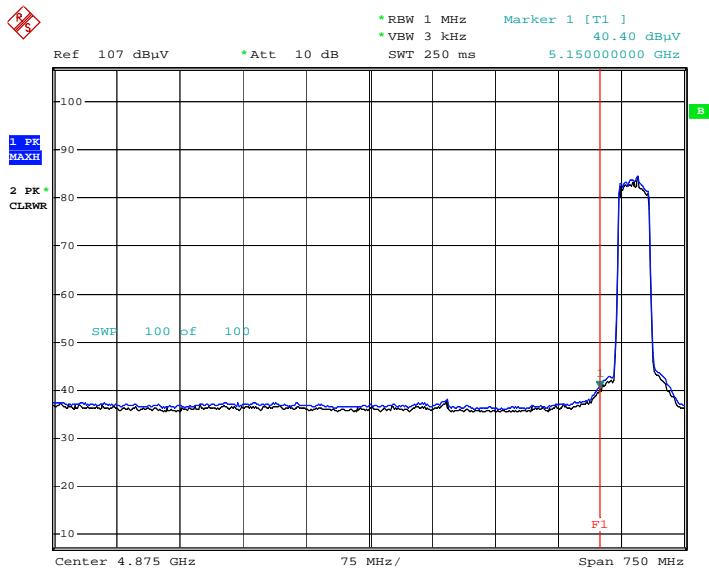
Date: 11.DEC.2018 14:02:53

Peak Reading (802.11n_HT40, Ch.38, Y-V)



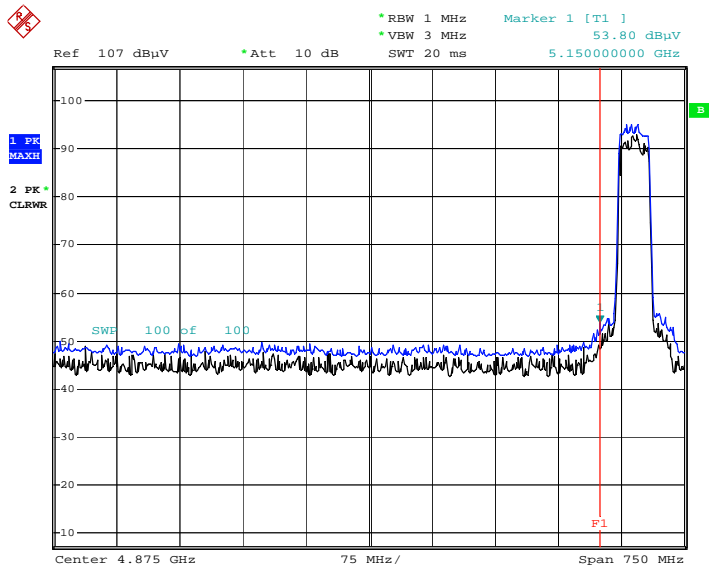
Date: 11.DEC.2018 14:03:16

Average Reading (802.11ac_VHT40, Ch.38, Y-V)



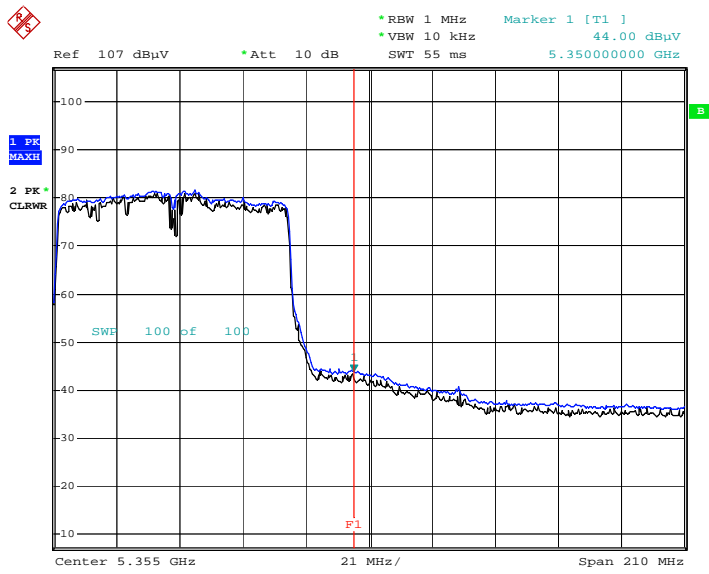
Date: 11.DEC.2018 14:05:01

Peak Reading (802.11ac_VHT40, Ch.38, Y-V)



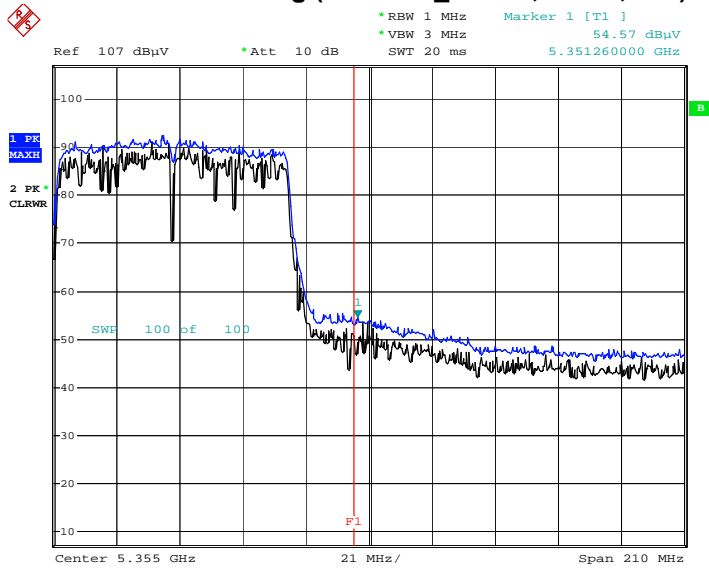
Date: 11.DEC.2018 14:05:30

Average Reading (802.11ac_VHT80, Ch.58, Y-V)



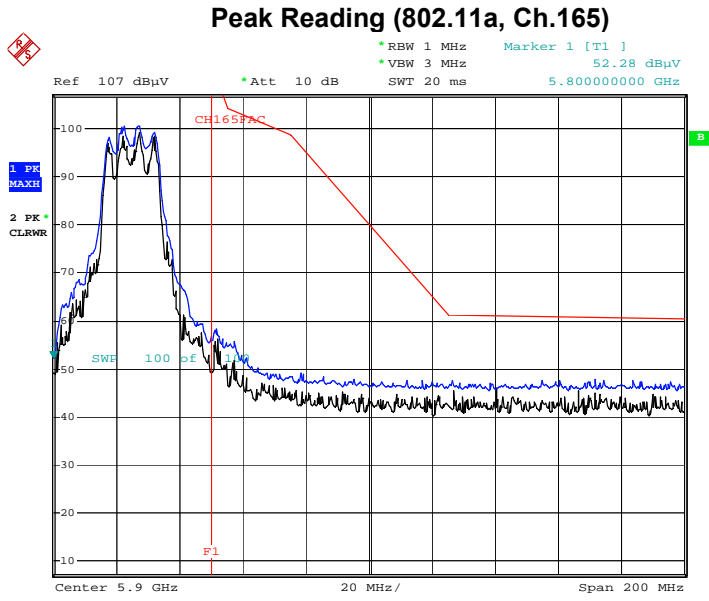
Date: 11.DEC.2018 13:05:35

Peak Reading (802.11ac_VHT80, Ch.58, Y-V)

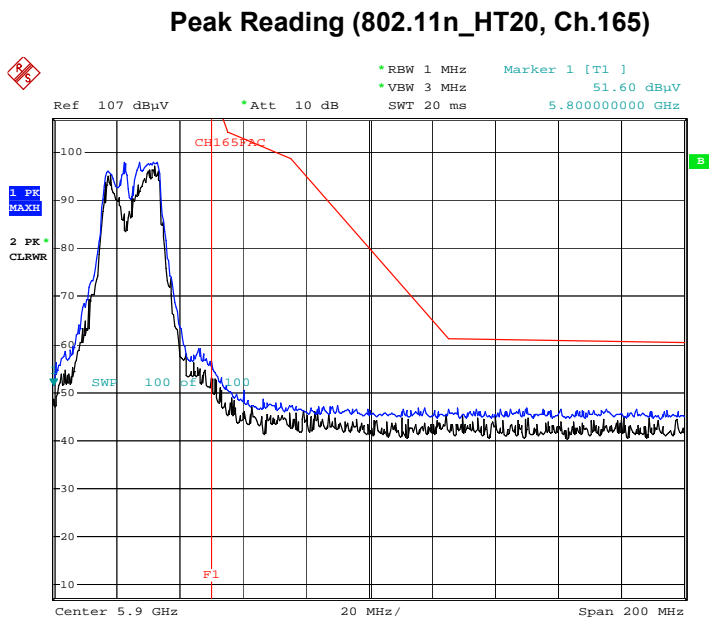


Date: 11.DEC.2018 13:06:13

Test Plots(UNII 3)

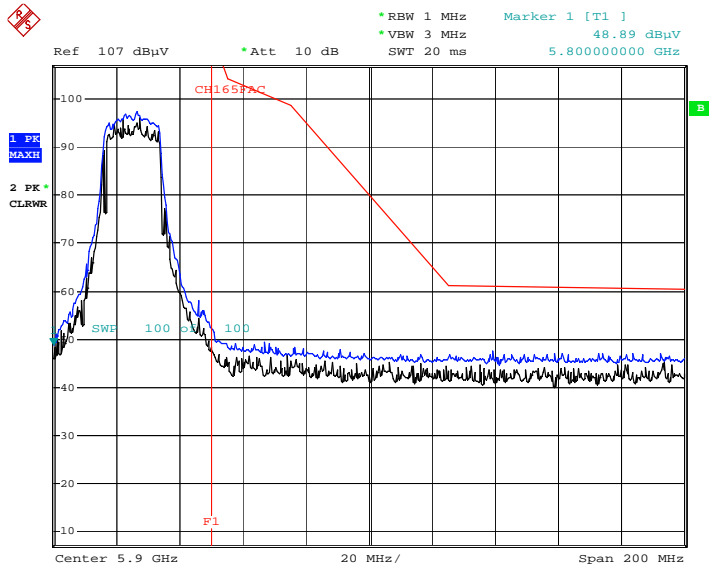


Date: 11.DEC.2018 14:44:11



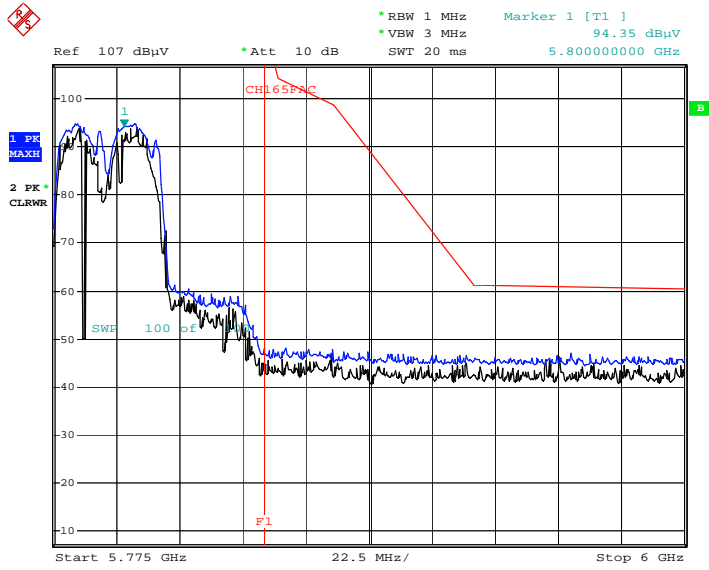
Date: 11.DEC.2018 14:44:56

Peak Reading (802.11ac_VHT20, Ch.165)



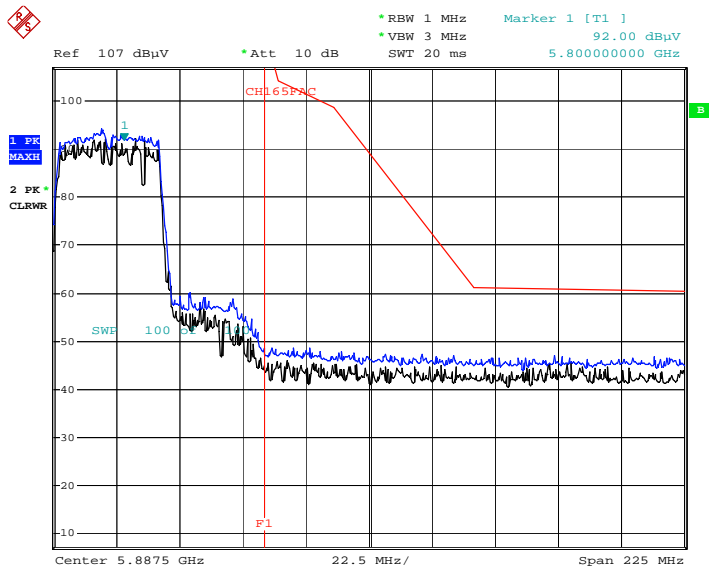
Date: 11.DEC.2018 14:45:51

Peak Reading (802.11n_HT40, Ch.159)



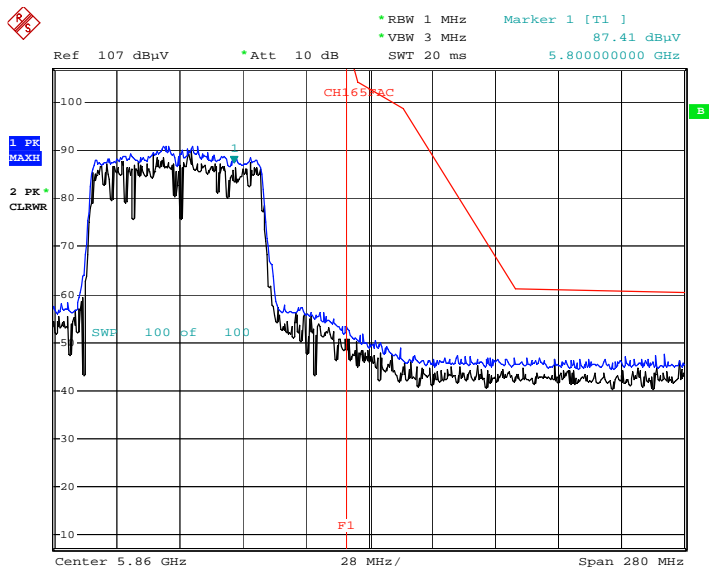
Date: 11.DEC.2018 14:46:34

Peak Reading (802.11ac_VHT40, Ch.159)



Date: 11.DEC.2018 14:47:15

Peak Reading (802.11ac_VHT80, Ch.155)



Date: 11.DEC.2018 14:48:42

10.10 POWERLINE CONDUCTED EMISSIONS

Conducted Emissions (Line 1)

5G WLAN MODE L1

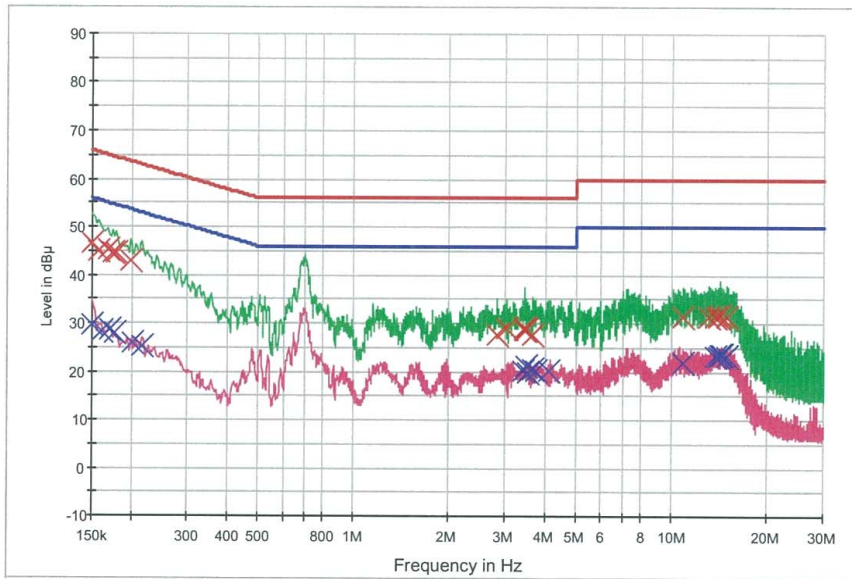
1 / 2

HCT TEST Report

Common Information

EUT: SM-G887N
 Manufacturer: SAMSUNG
 Test Site: SHIELD ROOM
 Operating Conditions: 5G WLAN MODE L1

FCC CLASS B_Exten Cable



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

Final Result 1

Frequency (MHz)	QuasiPeak (dBuV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.150000	46.6	9.000	Off	L1	9.7	19.4	66.0
0.158000	44.9	9.000	Off	L1	9.7	20.7	65.6
0.168000	45.2	9.000	Off	L1	9.7	19.9	65.1
0.174000	44.7	9.000	Off	L1	9.7	20.0	64.8
0.178000	44.5	9.000	Off	L1	9.7	20.1	64.6
0.198000	42.9	9.000	Off	L1	9.7	20.8	63.7
2.822000	27.6	9.000	Off	L1	9.9	28.4	56.0
3.030000	28.8	9.000	Off	L1	9.9	27.2	56.0
3.450000	28.7	9.000	Off	L1	9.9	27.3	56.0
3.454000	28.9	9.000	Off	L1	9.9	27.1	56.0
3.498000	28.5	9.000	Off	L1	9.9	27.5	56.0
3.648000	27.8	9.000	Off	L1	9.9	28.2	56.0
10.784000	31.2	9.000	Off	L1	10.3	28.8	60.0
13.038000	31.3	9.000	Off	L1	10.3	28.7	60.0
13.684000	31.2	9.000	Off	L1	10.4	28.8	60.0
13.960000	31.4	9.000	Off	L1	10.4	28.6	60.0
14.166000	31.8	9.000	Off	L1	10.4	28.2	60.0
14.908000	31.3	9.000	Off	L1	10.4	28.7	60.0

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5G WLAN MODE L1

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Final Result 2

Frequency (MHz)	CAverage (dBuV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.150000	29.5	9.000	Off	L1	9.7	26.5	56.0
0.160000	28.2	9.000	Off	L1	9.7	27.3	55.5
0.170000	28.6	9.000	Off	L1	9.7	26.4	55.0
0.176000	28.0	9.000	Off	L1	9.7	26.6	54.7
0.200000	26.0	9.000	Off	L1	9.8	27.6	53.6
0.216000	25.2	9.000	Off	L1	9.7	27.8	53.0
3.424000	20.2	9.000	Off	L1	9.9	25.8	46.0
3.498000	21.1	9.000	Off	L1	9.9	24.9	46.0
3.508000	19.7	9.000	Off	L1	9.9	26.3	46.0
3.646000	20.4	9.000	Off	L1	9.9	25.6	46.0
3.752000	20.3	9.000	Off	L1	10.0	25.7	46.0
4.104000	20.2	9.000	Off	L1	10.0	25.8	46.0
10.784000	22.0	9.000	Off	L1	10.3	28.0	50.0
13.684000	23.1	9.000	Off	L1	10.4	26.9	50.0
13.960000	23.1	9.000	Off	L1	10.4	26.9	50.0
14.166000	23.7	9.000	Off	L1	10.4	26.3	50.0
14.402000	23.6	9.000	Off	L1	10.4	26.4	50.0
14.908000	23.2	9.000	Off	L1	10.4	26.8	50.0

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Conducted Emissions (Line 2)

5G WLAN MODE N

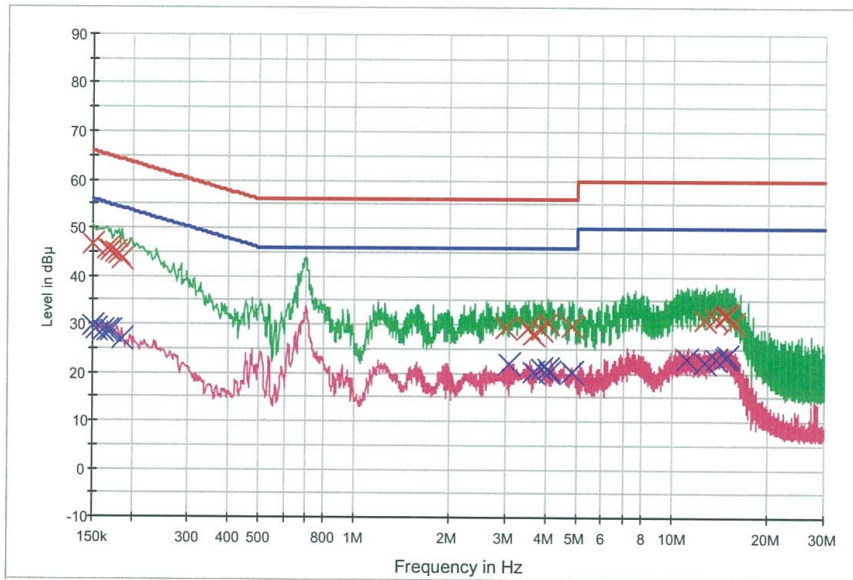
1 / 2

HCT TEST Report

Common Information

EUT: SM-G887N
 Manufacturer: SAMSUNG
 Test Site: SHIELD ROOM
 Operating Conditions: 5G WLAN MODE N

FCC CLASS B_Exten Cable



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

Final Result 1

Frequency (MHz)	QuasiPeak (dBuV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.150000	46.7	9.000	Off	N	9.8	19.3	66.0
0.166000	45.7	9.000	Off	N	9.8	19.5	65.2
0.170000	45.4	9.000	Off	N	9.8	19.6	65.0
0.176000	45.0	9.000	Off	N	9.8	19.7	64.7
0.180000	44.5	9.000	Off	N	9.8	20.0	64.5
0.186000	43.6	9.000	Off	N	9.8	20.6	64.2
3.006000	29.2	9.000	Off	N	10.1	26.8	56.0
3.526000	29.2	9.000	Off	N	10.1	26.8	56.0
3.652000	28.0	9.000	Off	N	10.1	28.0	56.0
3.860000	28.9	9.000	Off	N	10.2	27.1	56.0
4.078000	30.4	9.000	Off	N	10.2	25.6	56.0
4.820000	29.5	9.000	Off	N	10.2	26.5	56.0
12.626000	31.1	9.000	Off	N	10.6	28.9	60.0
13.668000	31.2	9.000	Off	N	10.6	28.8	60.0
14.648000	31.8	9.000	Off	N	10.7	28.2	60.0
14.764000	32.1	9.000	Off	N	10.7	27.9	60.0
14.790000	32.2	9.000	Off	N	10.7	27.8	60.0
15.552000	30.3	9.000	Off	N	10.7	29.7	60.0

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5G WLAN MODE N

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Final Result 2

Frequency (MHz)	CAverage (dBuV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.150000	29.8	9.000	Off	N	9.8	26.2	56.0
0.154000	29.0	9.000	Off	N	9.8	26.8	55.8
0.160000	28.7	9.000	Off	N	9.8	26.7	55.5
0.166000	28.7	9.000	Off	N	9.8	26.4	55.2
0.170000	28.8	9.000	Off	N	9.8	26.2	55.0
0.186000	26.8	9.000	Off	N	9.8	27.4	54.2
3.066000	21.7	9.000	Off	N	10.1	24.3	46.0
3.652000	20.1	9.000	Off	N	10.1	25.9	46.0
3.860000	21.0	9.000	Off	N	10.2	25.0	46.0
4.078000	20.9	9.000	Off	N	10.2	25.1	46.0
4.088000	20.0	9.000	Off	N	10.2	26.0	46.0
4.820000	20.2	9.000	Off	N	10.2	25.8	46.0
11.110000	22.9	9.000	Off	N	10.5	27.1	50.0
12.626000	22.3	9.000	Off	N	10.6	27.7	50.0
13.668000	23.0	9.000	Off	N	10.6	27.0	50.0
14.644000	23.3	9.000	Off	N	10.7	26.7	50.0
14.648000	23.4	9.000	Off	N	10.7	26.6	50.0
14.928000	23.5	9.000	Off	N	10.7	26.5	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	06/27/2018	Annual	100033
ESPAC	SU-642 / Temperature Chamber	03/30/2018	Annual	0093008124
Agilent	N9020A / Signal Analyzer	06/08/2018	Annual	MY52090906
Agilent	N1911A / Power Meter	04/16/2018	Annual	MY45100523
Agilent	N1921A / Power Sensor	04/16/2018	Annual	MY52260025
Hewlett Packard	11667B / Power Splitter	06/07/2018	Annual	05001
Hewlett Packard	E3632A / DC Power Supply	06/26/2018	Annual	KR75303960
Agilent	8493C / Attenuator(10 dB)	07/10/2018	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

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	04/19/2017	Biennial	1513-175
Schwarzbeck	VULB 9168 / Hybrid Antenna	04/06/2017	Biennial	760
Schwarzbeck	VULB 9160 / TRILOG Antenna	08/09/2018	Biennial	9160-3368
Schwarzbeck	BBHA 9120D / Horn Antenna	05/02/2017	Biennial	9120D-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	06/08/2018	Annual	MY51110085
Wainwright Instruments	WHK3.0/18G-10EF / High Pass Filter	06/07/2018	Annual	8
Wainwright Instruments	WHKX7.0/18G-8SS / High Pass Filter	05/09/2018	Annual	29
Wainwright Instruments	WRCJV2400/2483.5-2370/2520-60/12SS / Band Reject Filter	06/29/2018	Annual	2
Wainwright Instruments	WRCJV5100/5850-40/50-8EEK / Band Reject Filter	01/03/2018	Annual	2
Api tech.	18B-03 / Attenuator (3 dB)	06/07/2018	Annual	1
Agilent	8493C-10 / Attenuator(10 dB)	07/17/2018	Annual	08285
CERNEX	CBLU1183540 / Power Amplifier	07/10/2018	Annual	22964
CERNEX	CBL06185030 / Power Amplifier	07/10/2018	Annual	22965
CERNEX	CBL18265035 / Power Amplifier	01/10/2018	Annual	22966
CERNEX	CBL26405040 / Power Amplifier	06/29/2018	Annual	25956

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-1812-FC028-P
2	HCT-RF-1812-FC029-P
3	HCT-RF-1812-FC030-P
4	HCT-RF-1812-FC031-P
5	HCT-RF-1812-FC032-P
6	HCT-RF-1812-FC033-P
7	HCT-RF-1812-FC034-P