

■ Test Plots

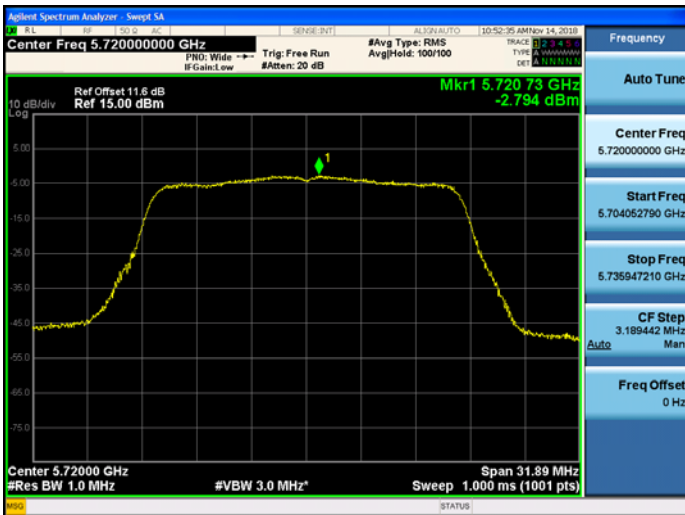
802.11a UNII 2C Band



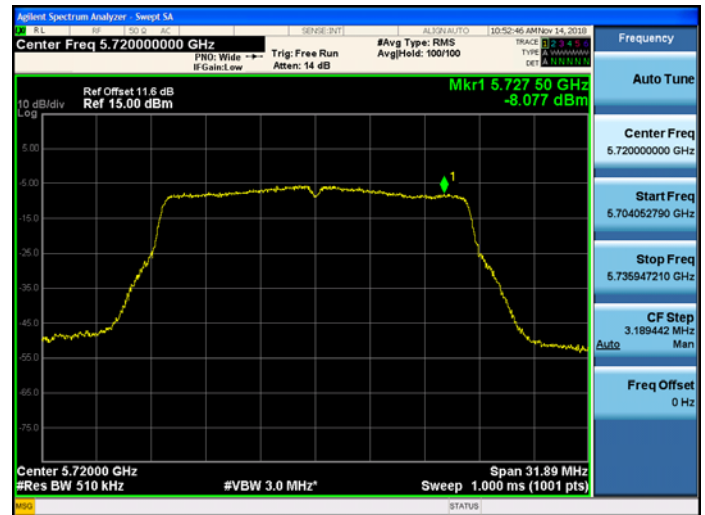
802.11a UNII 3 Band



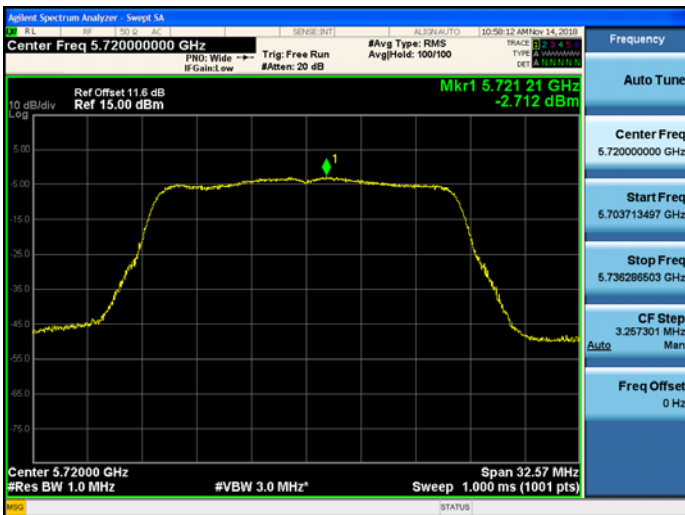
802.11n(HT20) UNII 2C Band



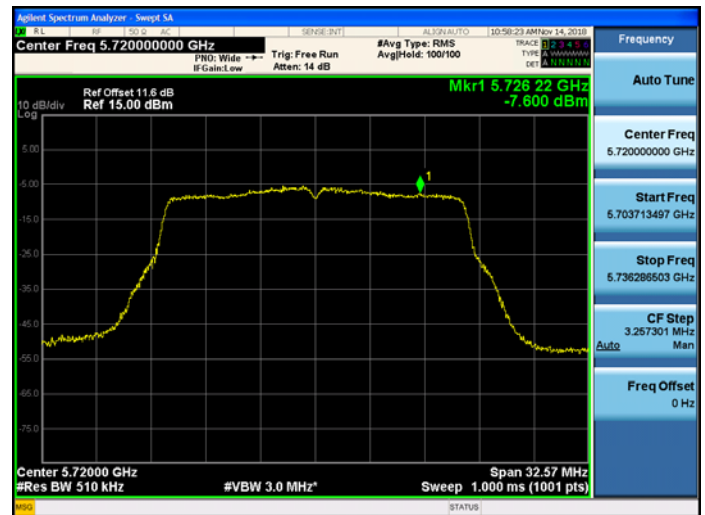
802.11n(HT20) UNII 3 Band



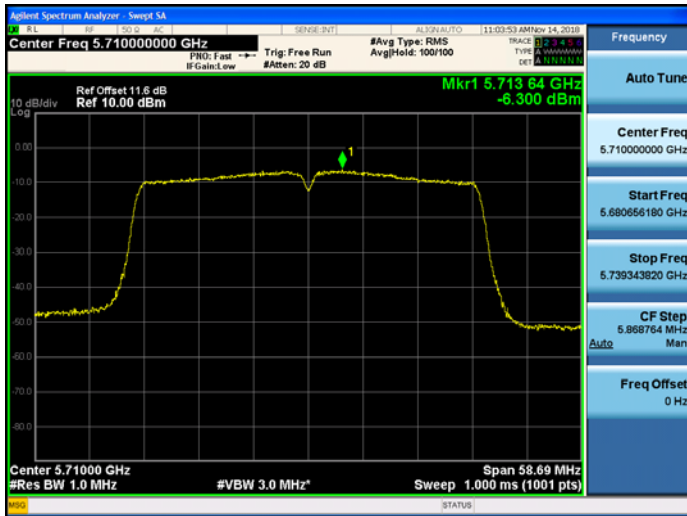
802.11ac(VHT20) UNII 2C Band



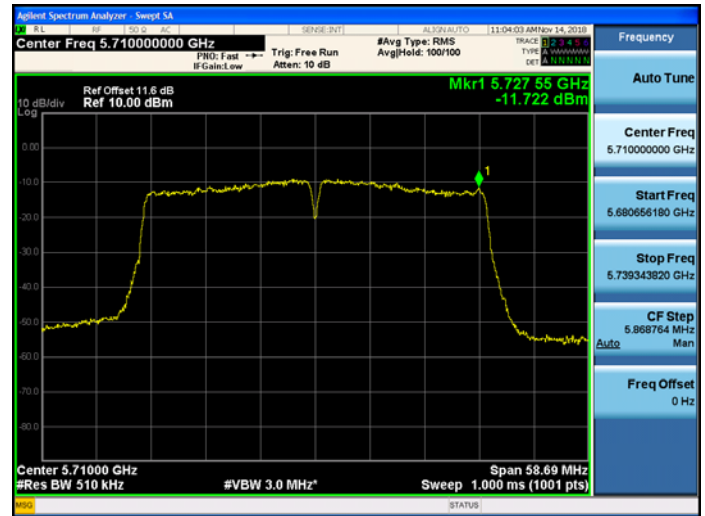
802.11ac(VHT20) UNII 3 Band



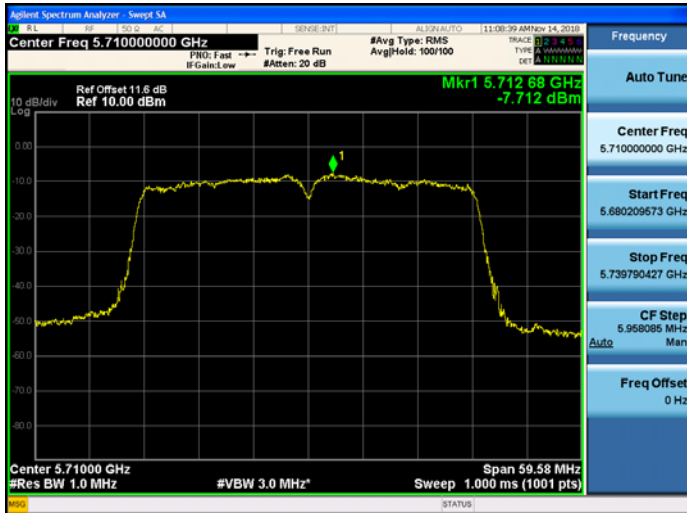
802.11n(HT40) UNII 2C Band



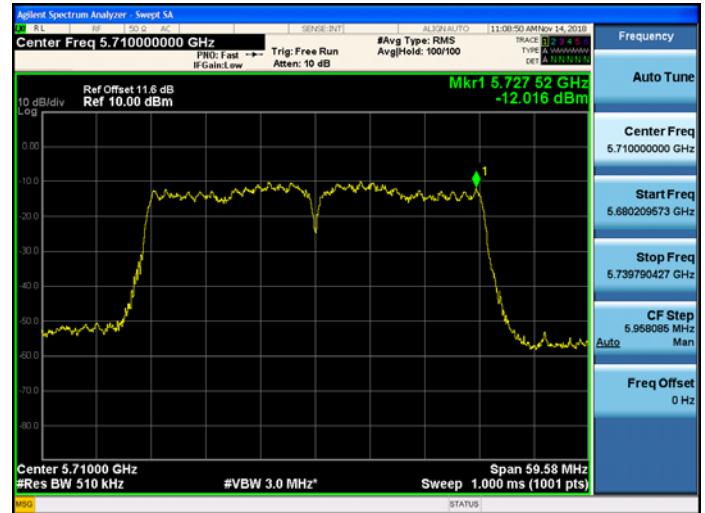
802.11n(HT40) UNII 3 Band



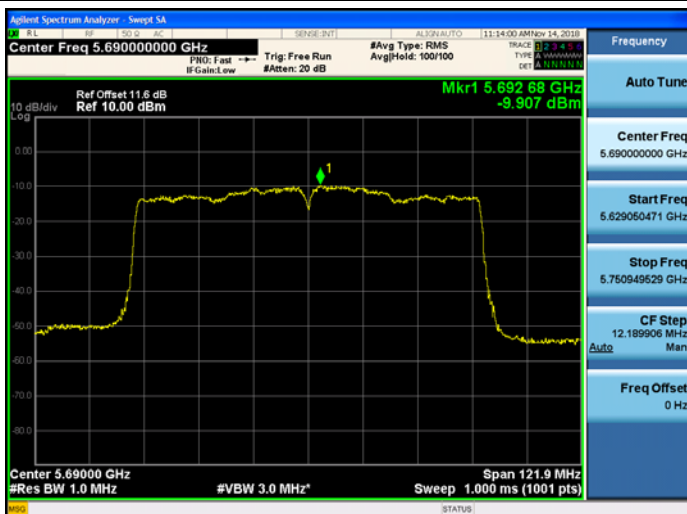
802.11ac(VHT40) UNII 2C Band



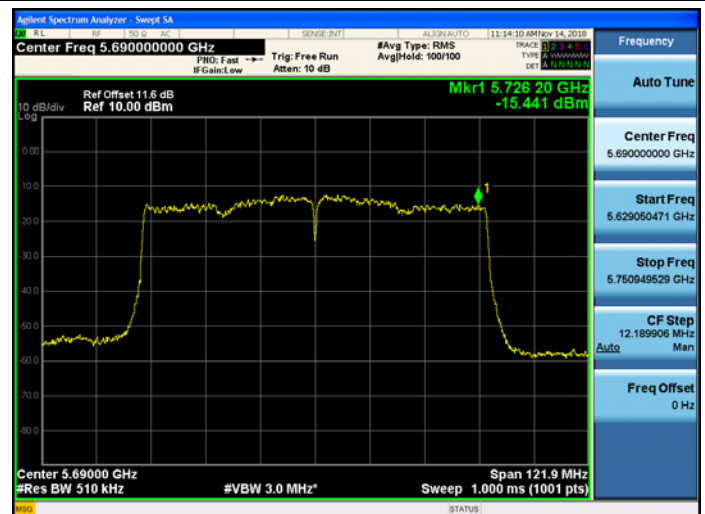
802.11ac(VHT40) UNII 3 Band



802.11ac(VHT80) UNII 2C Band



802.11ac(VHT80) UNII 3 Band



9.8 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	42.12	6.89	V	49.01	68.20	19.19	PK
15540	45.45	12.57	V	58.02	73.98	15.96	PK
15540	31.02	12.57	V	43.59	53.98	10.39	AV
10360	43.26	6.89	H	50.15	68.20	18.05	PK
15540	43.63	12.57	H	56.20	73.98	17.78	PK
15540	30.85	12.57	H	43.42	53.98	10.56	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	43.61	6.94	V	50.55	68.20	17.65	PK
15600	44.34	11.47	V	55.81	73.98	18.17	PK
15600	30.67	11.47	V	42.14	53.98	11.84	AV
10400	42.98	6.94	H	49.92	68.20	18.28	PK
15600	43.82	11.47	H	55.29	73.98	18.69	PK
15600	30.02	11.47	H	41.49	53.98	12.49	AV

Band :	UNII 1
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5240 MHz
Channel No.	48 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L.-A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10480	43.84	7.65	V	51.49	68.20	16.71	PK
15720	43.75	11.66	V	55.41	73.98	18.57	PK
15720	30.76	11.66	V	42.42	53.98	11.56	AV
10480	41.66	7.65	H	49.31	68.20	18.89	PK
15720	42.06	11.66	H	53.72	73.98	20.26	PK
15720	30.58	11.66	H	42.24	53.98	11.74	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]	A.F.+C.L.-A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10360	43.21	6.89	V	50.10	68.20	18.10	PK
15540	44.17	12.57	V	56.74	73.98	17.24	PK
15540	31.02	12.57	V	43.59	53.98	10.39	AV
10360	41.75	6.89	H	48.64	68.20	19.56	PK
15540	42.75	12.57	H	55.32	73.98	18.66	PK
15540	28.56	12.57	H	41.13	53.98	12.85	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	42.94	6.94	V	49.88	68.20	18.32	PK
15600	44.70	11.47	V	56.17	73.98	17.81	PK
15600	30.56	11.47	V	42.03	53.98	11.95	AV
10400	43.24	6.94	H	50.18	68.20	18.02	PK
15600	43.78	11.47	H	55.25	73.98	18.73	PK
15600	30.11	11.47	H	41.58	53.98	12.40	AV

Band :	UNII 1
Operation Mode:	802.11 n(HT20)
Transfer MCS Index:	MCS0
Operating Frequency	5240 MHz
Channel No.	48 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L.-A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10480	43.78	7.65	V	51.43	68.20	16.77	PK
15720	42.95	11.66	V	54.61	73.98	19.37	PK
15720	29.86	11.66	V	41.52	53.98	12.46	AV
10480	42.28	7.65	H	49.93	68.20	18.27	PK
15720	41.76	11.66	H	53.42	73.98	20.56	PK
15720	29.14	11.66	H	40.80	53.98	13.18	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]	A.F.+C.L.-A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10360	43.25	6.89	V	50.14	68.20	18.06	PK
15540	44.32	12.57	V	56.89	73.98	17.09	PK
15540	31.10	12.57	V	43.67	53.98	10.31	AV
10360	42.56	6.89	H	49.45	68.20	18.75	PK
15540	43.35	12.57	H	55.92	73.98	18.06	PK
15540	30.87	12.57	H	43.44	53.98	10.54	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	42.90	6.94	V	49.84	68.20	18.36	PK
15600	44.43	11.47	V	55.90	73.98	18.08	PK
15600	30.63	11.47	V	42.10	53.98	11.88	AV
10400	41.65	6.94	H	48.59	68.20	19.61	PK
15600	43.62	11.47	H	55.09	73.98	18.89	PK
15600	30.02	11.47	H	41.49	53.98	12.49	AV

Band :	UNII 1
Operation Mode:	802.11 ac(VHT20)
Transfer MCS Index:	MCS0
Operating Frequency	5240 MHz
Channel No.	48 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L.-A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10480	43.22	7.65	V	50.87	68.20	17.33	PK
15720	43.69	11.66	V	55.35	73.98	18.63	PK
15720	29.95	11.66	V	41.61	53.98	12.37	AV
10480	42.62	7.65	H	50.27	68.20	17.93	PK
15720	42.83	11.66	H	54.49	73.98	19.49	PK
15720	29.88	11.66	H	41.54	53.98	12.44	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]	A.F.+C.L.-A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10380	43.27	6.54	V	49.81	68.20	18.39	PK
15570	44.94	11.95	V	56.89	73.98	17.09	PK
15570	32.01	11.95	V	43.96	53.98	10.02	AV
10380	44.71	6.54	H	51.25	68.20	16.95	PK
15570	44.81	11.95	H	56.76	73.98	17.22	PK
15570	31.57	11.95	H	43.52	53.98	10.46	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	42.45	7.97	V	50.42	68.20	17.78	PK
15690	43.81	12.00	V	55.81	73.98	18.17	PK
15690	31.25	12.00	V	43.25	53.98	10.73	AV
10460	43.42	7.97	H	51.39	68.20	16.81	PK
15690	43.14	12.00	H	55.14	73.98	18.84	PK
15690	30.16	12.00	H	42.16	53.98	11.82	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]	A.F.+C.L.-A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10380	43.81	6.54	V	50.35	68.20	17.85	PK
15570	43.59	11.95	V	55.54	73.98	18.44	PK
15570	30.78	11.95	V	42.73	53.98	11.25	AV
10380	44.36	6.54	H	50.90	68.20	17.30	PK
15570	44.72	11.95	H	56.67	73.98	17.31	PK
15570	31.91	11.95	H	43.86	53.98	10.12	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	42.55	7.97	V	50.52	68.20	17.68	PK
15690	42.15	12.00	V	54.15	73.98	19.83	PK
15690	31.05	12.00	V	43.05	53.98	10.93	AV
10460	43.01	7.97	H	50.98	68.20	17.22	PK
15690	43.48	12.00	H	55.48	73.98	18.50	PK
15690	31.39	12.00	H	43.39	53.98	10.59	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]	A.F.+C.L.-A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10420	42.91	7.88	V	50.79	68.20	17.41	PK
15630	44.47	12.05	V	56.52	73.98	17.46	PK
15630	32.61	12.05	V	44.66	53.98	9.32	AV
10420	43.56	7.88	H	51.44	68.20	16.76	PK
15630	43.79	12.05	H	55.84	73.98	18.14	PK
15630	31.52	12.05	H	43.57	53.98	10.41	AV

Band : UNII 2A
 Operation Mode: 802.11 a
 Transfer Rate: 6 Mbps
 Operating Frequency 5260 MHz
 Channel No. 52 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L.-A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10520	45.07	8.33	V	53.40	68.20	14.80	PK
15780	42.60	12.21	V	54.81	73.98	19.17	PK
15780	29.32	12.21	V	41.53	53.98	12.45	AV
10520	44.96	8.33	H	53.29	68.20	14.91	PK
15780	41.52	12.21	H	53.73	73.98	20.25	PK
15780	28.75	12.21	H	40.96	53.98	13.02	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	44.81	8.85	V	53.66	73.98	20.32	PK
10600	36.27	8.85	V	45.12	53.98	8.86	AV
15900	43.79	11.90	V	55.69	73.98	18.29	PK
15900	30.04	11.90	V	41.94	53.98	12.04	AV
10600	43.21	8.85	H	52.06	73.98	21.92	PK
10600	35.63	8.85	H	44.48	53.98	9.50	AV
15900	42.64	11.90	H	54.54	73.98	19.44	PK
15900	30.01	11.90	H	41.91	53.98	12.07	AV

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

Frequency [MHz]	Reading [dBuV]	A.F.+C.L.-A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10640	44.09	9.25	V	53.34	73.98	20.64	PK
10640	34.95	9.25	V	44.20	53.98	9.78	AV
15960	43.43	10.55	V	53.98	73.98	20.00	PK
15960	30.13	10.55	V	40.68	53.98	13.30	AV
10640	43.33	9.25	H	52.58	73.98	21.40	PK
10640	33.25	9.25	H	42.50	53.98	11.48	AV
15960	42.16	10.55	H	52.71	73.98	21.27	PK
15960	30.02	10.55	H	40.57	53.98	13.41	AV

Band : UNII 2A
 Operation Mode: 802.11 n(HT20)
 Transfer MCS Index: MCS0
 Operating Frequency 5260 MHz
 Channel No. 52 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L.-A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10520	44.61	8.33	V	52.94	68.20	15.26	PK
15780	42.33	12.21	V	54.54	73.98	19.44	PK
15780	29.18	12.21	V	41.39	53.98	12.59	AV
10520	43.47	8.33	H	51.80	68.20	16.40	PK
15780	41.51	12.21	H	53.72	73.98	20.26	PK
15780	28.86	12.21	H	41.07	53.98	12.91	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	45.59	8.85	V	54.44	73.98	19.54	PK
10600	36.17	8.85	V	45.02	53.98	8.96	AV
15900	43.78	11.90	V	55.68	73.98	18.30	PK
15900	30.11	11.90	V	42.01	53.98	11.97	AV
10600	45.04	8.85	H	53.89	73.98	20.09	PK
10600	35.47	8.85	H	44.32	53.98	9.66	AV
15900	41.38	11.90	H	53.28	73.98	20.70	PK
15900	29.89	11.90	H	41.79	53.98	12.19	AV

Band :	UNII 2A
Operation Mode:	802.11 n(HT20)
Transfer MCS Index:	MCS0
Operating Frequency	5320 MHz
Channel No.	64 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L.-A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10640	43.87	9.25	V	53.12	73.98	20.86	PK
10640	34.93	9.25	V	44.18	53.98	9.80	AV
15960	43.23	10.55	V	53.78	73.98	20.20	PK
15960	30.04	10.55	V	40.59	53.98	13.39	AV
10640	42.01	9.25	H	51.26	73.98	22.72	PK
10640	33.80	9.25	H	43.05	53.98	10.93	AV
15960	42.13	10.55	H	52.68	73.98	21.30	PK
15960	29.88	10.55	H	40.43	53.98	13.55	AV

Band : UNII 2A

Operation Mode: 802.11 ac(VHT20)

Transfer MCS Index: MCS0

Operating Frequency 5260MHz

Channel No. 52 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L.-A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10520	45.18	8.33	V	53.51	68.20	14.69	PK
15780	42.82	12.21	V	55.03	73.98	18.95	PK
15780	29.20	12.21	V	41.41	53.98	12.57	AV
10520	44.71	8.33	H	53.04	68.20	15.16	PK
15780	41.49	12.21	H	53.70	73.98	20.28	PK
15780	29.05	12.21	H	41.26	53.98	12.72	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	44.46	8.85	V	53.31	73.98	20.67	PK
10600	35.83	8.85	V	44.68	53.98	9.30	AV
15900	43.12	11.90	V	55.02	73.98	18.96	PK
15900	30.04	11.90	V	41.94	53.98	12.04	AV
10600	43.51	8.85	H	52.36	73.98	21.62	PK
10600	35.77	8.85	H	44.62	53.98	9.36	AV
15900	42.86	11.90	H	54.76	73.98	19.22	PK
15900	29.51	11.90	H	41.41	53.98	12.57	AV

Band :	UNII 2A
Operation Mode:	802.11 ac(VHT20)
Transfer MCS Index:	MCS0
Operating Frequency	5320 MHz
Channel No.	64 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L.-A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10640	44.48	9.25	V	53.73	73.98	20.25	PK
10640	34.85	9.25	V	44.10	53.98	9.88	AV
15960	44.16	10.55	V	54.71	73.98	19.27	PK
15960	30.12	10.55	V	40.67	53.98	13.31	AV
10640	43.26	9.25	H	52.51	73.98	21.47	PK
10640	34.35	9.25	H	43.60	53.98	10.38	AV
15960	43.29	10.55	H	53.84	73.98	20.14	PK
15960	29.96	10.55	H	40.51	53.98	13.47	AV

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	44.14	8.71	V	52.85	68.20	15.35	PK
15810	42.55	11.51	V	54.06	73.98	19.92	PK
15810	29.63	11.51	V	41.14	53.98	12.84	AV
10540	43.51	8.71	H	52.22	68.20	15.98	PK
15810	41.28	11.51	H	52.79	73.98	21.19	PK
15810	28.76	11.51	H	40.27	53.98	13.71	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	44.72	8.62	V	53.34	73.98	20.64	PK
10620	35.44	8.62	V	44.06	53.98	9.92	AV
15930	43.20	10.63	V	53.83	73.98	20.15	PK
15930	30.62	10.63	V	41.25	53.98	12.73	AV
10620	43.88	8.62	H	52.50	73.98	21.48	PK
10620	34.62	8.62	H	43.24	53.98	10.74	AV
15930	42.71	10.63	H	53.34	73.98	20.64	PK
15930	30.11	10.63	H	40.74	53.98	13.24	AV

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	44.22	8.71	V	52.93	68.20	15.27	PK
15810	42.37	11.51	V	53.88	73.98	20.10	PK
15810	29.72	11.51	V	41.23	53.98	12.75	AV
10540	44.05	8.71	H	52.76	68.20	15.44	PK
15810	41.56	11.51	H	53.07	73.98	20.91	PK
15810	28.45	11.51	H	39.96	53.98	14.02	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	44.68	8.62	V	53.30	73.98	20.68	PK
10620	35.44	8.62	V	44.06	53.98	9.92	AV
15930	43.45	10.63	V	54.08	73.98	19.90	PK
15930	30.93	10.63	V	41.56	53.98	12.42	AV
10620	43.44	8.62	H	52.06	73.98	21.92	PK
10620	34.63	8.62	H	43.25	53.98	10.73	AV
15930	42.84	10.63	H	53.47	73.98	20.51	PK
15930	30.05	10.63	H	40.68	53.98	13.30	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]	A.F.+C.L.-A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10580	45.48	8.83	V	54.31	68.20	13.89	PK
15870	42.89	11.15	V	54.04	73.98	19.94	PK
15870	31.09	11.15	V	42.24	53.98	11.74	AV
10580	44.94	8.83	H	53.77	68.20	14.43	PK
15870	41.69	11.15	H	52.84	73.98	21.14	PK
15870	30.90	11.15	H	42.05	53.98	11.93	AV

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

Frequency [MHz]	Reading [dBuV]	A.F.+C.L.-A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11000	42.78	10.23	V	53.01	73.98	20.97	PK
11000	30.01	10.23	V	40.24	53.98	13.74	AV
16500	43.69	11.62	V	55.31	68.20	12.89	PK
11000	43.14	10.23	H	53.37	73.98	20.61	PK
11000	30.24	10.23	H	40.47	53.98	13.51	AV
16500	42.17	11.62	H	53.79	68.20	14.41	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]	A.F.+C.L.-A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11160	42.30	10.09	V	52.39	73.98	21.59	PK
11160	29.47	10.09	V	39.56	53.98	14.42	AV
16740	43.84	11.27	V	55.11	68.20	13.09	PK
11160	42.08	10.09	H	52.17	73.98	21.81	PK
11160	29.02	10.09	H	39.11	53.98	14.87	AV
16740	42.65	11.27	H	53.92	68.20	14.28	PK

Band :	UNII 2C
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5720 MHz
Channel No.	144 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L.-A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11440	41.51	9.39	V	50.90	73.98	23.08	PK
11440	28.51	9.39	V	37.90	53.98	16.08	AV
17160	43.39	12.91	V	56.30	68.20	11.90	PK
11440	42.11	9.39	H	51.50	73.98	22.48	PK
11440	28.96	9.39	H	38.35	53.98	15.63	AV
17160	44.44	12.91	H	57.35	68.20	10.85	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]	A.F.+C.L.-A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11000	42.75	10.23	V	52.98	73.98	21.00	PK
11000	30.27	10.23	V	40.50	53.98	13.48	AV
16500	43.76	11.62	V	55.38	68.20	12.82	PK
11000	42.53	10.23	H	52.76	73.98	21.22	PK
11000	30.11	10.23	H	40.34	53.98	13.64	AV
16500	43.50	11.62	H	55.12	68.20	13.08	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]	A.F.+C.L.-A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11160	41.97	10.09	V	52.06	73.98	21.92	PK
11160	29.21	10.09	V	39.30	53.98	14.68	AV
16740	44.63	11.27	V	55.90	68.20	12.30	PK
11160	42.44	10.09	H	52.53	73.98	21.45	PK
11160	29.42	10.09	H	39.51	53.98	14.47	AV
16740	45.45	11.27	H	56.72	68.20	11.48	PK

Band : UNII 2C
 Operation Mode: 802.11 n(HT20)
 Transfer MCS Index: MCS0
 Operating Frequency 5720 MHz
 Channel No. 144 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L.-A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11440	41.23	9.39	V	50.62	73.98	23.36	PK
11440	27.61	9.39	V	37.00	53.98	16.98	AV
17160	43.52	12.91	V	56.43	68.20	11.77	PK
11440	42.43	9.39	H	51.82	73.98	22.16	PK
11440	28.99	9.39	H	38.38	53.98	15.60	AV
17160	44.74	12.91	H	57.65	68.20	10.55	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]	A.F.+C.L.-A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11000	42.14	10.23	V	52.37	73.98	21.61	PK
11000	30.09	10.23	V	40.32	53.98	13.66	AV
16500	43.53	11.62	V	55.15	68.20	13.05	PK
11000	42.60	10.23	H	52.83	73.98	21.15	PK
11000	30.59	10.23	H	40.82	53.98	13.16	AV
16500	44.06	11.62	H	55.68	68.20	12.52	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]	A.F.+C.L.-A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11160	42.06	10.09	V	52.15	73.98	21.83	PK
11160	28.10	10.09	V	38.19	53.98	15.79	AV
16740	44.36	11.27	V	55.63	68.20	12.57	PK
11160	42.71	10.09	H	52.80	73.98	21.18	PK
11160	29.69	10.09	H	39.78	53.98	14.20	AV
16740	45.15	11.27	H	56.42	68.20	11.78	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]	A.F.+C.L.-A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11440	40.97	9.39	V	50.36	73.98	23.62	PK
11440	28.95	9.39	V	38.34	53.98	15.64	AV
17160	43.15	12.91	V	56.06	68.20	12.14	PK
11440	42.13	9.39	H	51.52	73.98	22.46	PK
11440	29.01	9.39	H	38.40	53.98	15.58	AV
17160	44.66	12.91	H	57.57	68.20	10.63	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]	A.F.+C.L.-A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11020	42.14	9.89	V	52.03	73.98	21.95	PK
11020	30.37	9.89	V	40.26	53.98	13.72	AV
16530	44.17	11.59	V	55.76	68.20	12.44	PK
11020	41.87	9.89	H	51.76	73.98	22.22	PK
11020	30.12	9.89	H	40.01	53.98	13.97	AV
16530	43.87	11.59	H	55.46	68.20	12.74	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
11100	41.42	9.67	V	51.09	73.98	22.89	PK
11100	27.41	9.67	V	37.08	53.98	16.90	AV
16650	43.71	11.53	V	55.24	68.20	12.96	PK
11100	42.34	9.67	H	52.01	73.98	21.97	PK
11100	28.96	9.67	H	38.63	53.98	15.35	AV
16650	44.20	11.53	H	55.73	68.20	12.47	PK

Band : UNII 2C
 Operation Mode: 802.11 n(HT40)
 Transfer MCS Index: 0
 Operating Frequency 5710 MHz
 Channel No. 142 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L.-A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11420	42.34	9.18	V	51.52	73.98	22.46	PK
11420	29.93	9.18	V	39.11	53.98	14.87	AV
17130	43.96	13.20	V	57.16	68.20	11.04	PK
11420	41.22	9.18	H	50.40	73.98	23.58	PK
11420	28.74	9.18	H	37.92	53.98	16.06	AV
17130	42.75	13.20	H	55.95	68.20	12.25	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]	A.F.+C.L.-A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11020	42.10	9.89	V	51.99	73.98	21.99	PK
11020	30.58	9.89	V	40.47	53.98	13.51	AV
16530	44.18	11.59	V	55.77	68.20	12.43	PK
11020	41.95	9.89	H	51.84	73.98	22.14	PK
11020	29.47	9.89	H	39.36	53.98	14.62	AV
16530	44.29	11.59	H	55.88	68.20	12.32	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
11100	41.51	9.67	V	51.18	73.98	22.80	PK
11100	29.35	9.67	V	39.02	53.98	14.96	AV
16650	44.24	11.53	V	55.77	68.20	12.43	PK
11100	40.21	9.67	H	49.88	73.98	24.10	PK
11100	28.55	9.67	H	38.22	53.98	15.76	AV
16650	43.29	11.53	H	54.82	68.20	13.38	PK

Band : UNII 2C
 Operation Mode: 802.11 ac(VHT40)
 Transfer MCS Index: 0
 Operating Frequency 5710 MHz
 Channel No. 142 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L.-A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11420	42.32	9.18	V	51.50	73.98	22.48	PK
11420	29.83	9.18	V	39.01	53.98	14.97	AV
17130	44.02	13.20	V	57.22	68.20	10.98	PK
11420	42.22	9.18	H	51.40	73.98	22.58	PK
11420	29.05	9.18	H	38.23	53.98	15.75	AV
17130	44.12	13.20	H	57.32	68.20	10.88	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]	A.F.+C.L.-A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11060	42.48	9.83	V	52.31	73.98	21.67	PK
11060	31.68	9.83	V	41.51	53.98	12.47	AV
16590	44.22	11.80	V	56.02	68.20	12.18	PK
11060	41.88	9.83	H	51.71	73.98	22.27	PK
11060	31.16	9.83	H	40.99	53.98	12.99	AV
16590	43.51	11.80	H	55.31	68.20	12.89	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	42.52	9.91	V	52.43	73.98	21.55	PK
11380	31.16	9.91	V	41.07	53.98	12.91	AV
17070	43.93	12.72	V	56.65	68.20	11.55	PK
11380	42.08	9.91	H	51.99	73.98	21.99	PK
11380	30.27	9.91	H	40.18	53.98	13.80	AV
17070	42.28	12.72	H	55.00	68.20	13.20	PK

Band : UNII 3

Operation Mode: 802.11 a

Transfer Rate: 6 Mbps

Operating Frequency 5745MHz

Channel No. 149 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L.-A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11490	42.19	9.31	V	51.50	73.98	22.48	PK
11490	28.83	9.31	V	38.14	53.98	15.84	AV
17235	44.12	14.49	V	58.61	68.20	9.59	PK
11490	41.25	9.31	H	50.56	73.98	23.42	PK
11490	28.05	9.31	H	37.36	53.98	16.62	AV
17235	43.85	14.49	H	58.34	68.20	9.86	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	42.35	9.38	V	51.73	73.98	22.25	PK
11570	30.08	9.38	V	39.46	53.98	14.52	AV
17355	44.56	15.74	V	60.30	68.20	7.90	PK
11570	41.80	9.38	H	51.18	73.98	22.80	PK
11570	29.54	9.38	H	38.92	53.98	15.06	AV
17355	43.31	15.74	H	59.05	68.20	9.15	PK

Report No.: HCT-RF-1901-FC012

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	44.10	8.33	V	52.43	73.98	21.55	PK
11650	33.46	8.33	V	41.79	53.98	12.19	AV
17475	44.43	16.79	V	61.22	68.20	6.98	PK
11650	42.98	8.33	H	51.31	73.98	22.67	PK
11650	32.17	8.33	H	40.50	53.98	13.48	AV
17475	44.09	16.79	H	60.88	68.20	7.32	PK

Band : UNII 3

Operation Mode: 802.11 n(HT20)

Transfer MCS Index: MCS0

Operating Frequency 5745MHz

Channel No. 149 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L.-A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11490	42.09	9.31	V	51.40	73.98	22.58	PK
11490	29.00	9.31	V	38.31	53.98	15.67	AV
17235	43.68	14.49	V	58.17	68.20	10.03	PK
11490	41.83	9.31	H	51.14	73.98	22.84	PK
11490	28.51	9.31	H	37.82	53.98	16.16	AV
17235	41.38	14.49	H	55.87	68.20	12.33	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	42.02	9.38	V	51.40	73.98	22.58	PK
11570	30.25	9.38	V	39.63	53.98	14.35	AV
17355	44.33	15.74	V	60.07	68.20	8.13	PK
11570	41.78	9.38	H	51.16	73.98	22.82	PK
11570	29.34	9.38	H	38.72	53.98	15.26	AV
17355	44.01	15.74	H	59.75	68.20	8.45	PK

Band :	UNII 3
Operation Mode:	802.11 n(HT20)
Transfer MCS Index:	MCS0
Operating Frequency	5825 MHz
Channel No.	165 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L.-A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11650	43.62	8.33	V	51.95	73.98	22.03	PK
11650	33.61	8.33	V	41.94	53.98	12.04	AV
17475	44.38	16.79	V	61.17	68.20	7.03	PK
11650	42.71	8.33	H	51.04	73.98	22.94	PK
11650	32.12	8.33	H	40.45	53.98	13.53	AV
17475	43.25	16.79	H	60.04	68.20	8.16	PK

Band : UNII 3

Operation Mode: 802.11 ac(VHT20)

Transfer MCS Index: MCS0

Operating Frequency 5745MHz

Channel No. 149 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L.-A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11490	42.08	9.31	V	51.39	73.98	22.59	PK
11490	28.65	9.31	V	37.96	53.98	16.02	AV
17235	43.81	14.49	V	58.30	68.20	9.90	PK
11490	41.36	9.31	H	50.67	73.98	23.31	PK
11490	28.29	9.31	H	37.60	53.98	16.38	AV
17235	43.22	14.49	H	57.71	68.20	10.49	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	42.13	9.38	V	51.51	73.98	22.47	PK
11570	30.34	9.38	V	39.72	53.98	14.26	AV
17355	44.05	15.74	V	59.79	68.20	8.41	PK
11570	41.90	9.38	H	51.28	73.98	22.70	PK
11570	29.95	9.38	H	39.33	53.98	14.65	AV
17355	43.04	15.74	H	58.78	68.20	9.42	PK

Band : UNII 3
 Operation Mode: 802.11 ac(VHT20)
 Transfer MCS Index: MCS0
 Operating Frequency 5825 MHz
 Channel No. 165 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L.-A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11650	43.93	8.33	V	52.26	73.98	21.72	PK
11650	33.69	8.33	V	42.02	53.98	11.96	AV
17475	43.98	16.79	V	60.77	68.20	7.43	PK
11650	42.69	8.33	H	51.02	73.98	22.96	PK
11650	32.46	8.33	H	40.79	53.98	13.19	AV
17475	42.65	16.79	H	59.44	68.20	8.76	PK

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	41.39	9.19	V	50.58	73.98	23.40	PK
11510	28.51	9.19	V	37.70	53.98	16.28	AV
17265	43.33	14.32	V	57.65	68.20	10.55	PK
11510	41.70	9.19	H	50.89	73.98	23.09	PK
11510	28.99	9.19	H	38.18	53.98	15.80	AV
17265	43.58	14.32	H	57.90	68.20	10.30	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	43.57	9.46	V	53.03	73.98	20.95	PK
11590	32.19	9.46	V	41.65	53.98	12.33	AV
17385	44.76	15.37	V	60.13	68.20	8.07	PK
11590	44.32	9.46	H	53.78	73.98	20.20	PK
11590	32.49	9.46	H	41.95	53.98	12.03	AV
17385	43.19	15.37	H	58.56	68.20	9.64	PK

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	41.14	9.19	V	50.33	73.98	23.65	PK
11510	28.89	9.19	V	38.08	53.98	15.90	AV
17265	43.06	14.32	V	57.38	68.20	10.82	PK
11510	41.88	9.19	H	51.07	73.98	22.91	PK
11510	29.17	9.19	H	38.36	53.98	15.62	AV
17265	43.68	14.32	H	58.00	68.20	10.20	PK

Band : UNII 3

Operation Mode: 802.11 ac(VHT40)

Transfer MCS Index: 0

Operating Frequency 5795 MHz

Channel No. 159 Ch

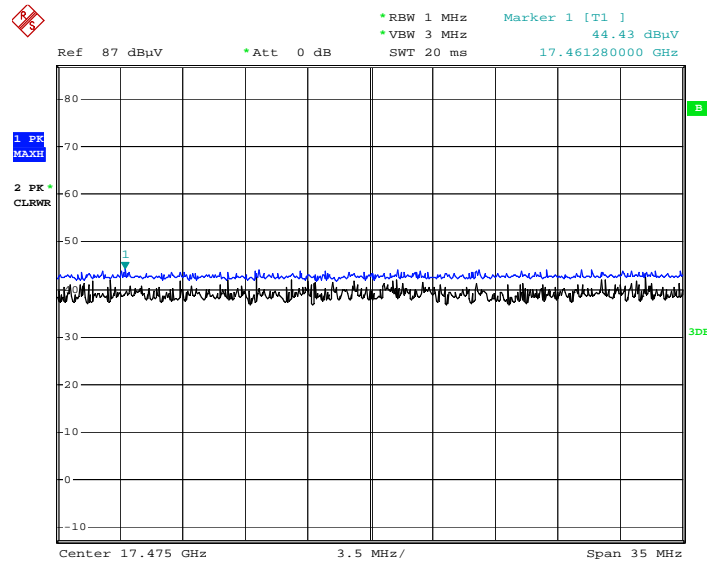
Frequency [MHz]	Reading [dBuV]	A.F.+C.L.-A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11590	42.75	9.46	V	52.21	73.98	21.77	PK
11590	32.04	9.46	V	41.50	53.98	12.48	AV
17385	43.63	15.37	V	59.00	68.20	9.20	PK
11590	43.37	9.46	H	52.83	73.98	21.15	PK
11590	32.63	9.46	H	42.09	53.98	11.89	AV
17385	44.29	15.37	H	59.66	68.20	8.54	PK

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	41.61	8.90	V	50.51	73.98	23.47	PK
11550	32.15	8.90	V	41.05	53.98	12.93	AV
17325	44.77	15.33	V	60.10	68.20	8.10	PK
11550	42.66	8.90	H	51.56	73.98	22.42	PK
11550	33.21	8.90	H	42.11	53.98	11.87	AV
17325	44.39	15.33	H	59.72	68.20	8.48	PK

■ Test Plots

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



Date: 7.JAN.2003 14:54:43

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

9.9 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	51.37	5.75	H	57.12	73.98	16.86	PK
5150	38.72	5.75	H	44.47	53.98	9.51	AV
5150	50.71	5.75	V	56.46	73.98	17.52	PK
5150	37.42	5.75	V	43.17	53.98	10.81	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	51.33	5.75	H	57.08	73.98	16.90	PK
5150	38.52	5.75	H	44.27	53.98	9.71	AV
5150	50.64	5.75	V	56.39	73.98	17.59	PK
5150	38.37	5.75	V	44.12	53.98	9.86	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	AN.+CL+AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5150	50.13	5.75	H	55.88	73.98	18.10	PK
5150	38.62	5.75	H	44.37	53.98	9.61	AV
5150	49.60	5.75	V	55.35	73.98	18.63	PK
5150	38.17	5.75	V	43.92	53.98	10.06	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	49.20	5.75	H	54.95	73.98	19.03	PK
5150	38.45	5.75	H	44.2	53.98	9.78	AV
5150	48.62	5.75	V	54.37	73.98	19.61	PK
5150	38.10	5.75	V	43.85	53.98	10.13	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	49.57	5.75	H	55.32	73.98	18.66	PK
5150	38.67	5.75	H	44.42	53.98	9.56	AV
5150	48.78	5.75	V	54.53	73.98	19.45	PK
5150	37.99	5.75	V	43.74	53.98	10.24	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	49.58	5.75	H	55.33	73.98	18.65	PK
5150	37.51	5.75	H	43.26	53.98	10.72	AV
5150	48.66	5.75	V	54.41	73.98	19.57	PK
5150	37.43	5.75	V	43.18	53.98	10.80	AV

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

Frequency [MHz]	Reading dBuV	AN.+CL+AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5350	50.72	6.66	H	57.38	73.98	16.60	PK
5350	38.49	6.66	H	45.15	53.98	8.83	AV
5350	52.30	6.66	V	58.96	73.98	15.02	PK
5350	38.88	6.66	V	45.54	53.98	8.44	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	50.29	6.66	H	56.95	73.98	17.03	PK
5350	38.83	6.66	H	45.49	53.98	8.49	AV
5350	51.61	6.66	V	58.27	73.98	15.71	PK
5350	38.91	6.66	V	45.57	53.98	8.41	AV

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

Frequency [MHz]	Reading dBuV	AN.+CL+AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5350	49.42	6.66	H	56.08	73.98	17.90	PK
5350	38.49	6.66	H	45.15	53.98	8.83	AV
5350	51.13	6.66	V	57.79	73.98	16.19	PK
5350	38.93	6.66	V	45.59	53.98	8.39	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	49.57	6.66	H	56.23	73.98	17.75	PK
5350	38.74	6.66	H	45.4	53.98	8.58	AV
5350	52.33	6.66	V	58.99	73.98	14.99	PK
5350	39.02	6.66	V	45.68	53.98	8.30	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	50.74	6.66	H	57.40	73.98	16.58	PK
5350	38.26	6.66	H	44.92	53.98	9.06	AV
5350	51.35	6.66	V	58.01	73.98	15.97	PK
5350	39.39	6.66	V	46.05	53.98	7.93	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	49.73	6.66	H	56.39	73.98	17.59	PK
5350	39.47	6.66	H	46.13	53.98	7.85	AV
5350	49.24	6.66	V	55.9	73.98	18.08	PK
5350	39.03	6.66	V	45.69	53.98	8.29	AV

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

Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5460	51.91	6.08	H	57.99	73.98	15.99	PK
5460	39.11	6.08	H	45.19	53.98	8.79	AV
5470	51.47	6.19	H	57.66	68.20	10.54	PK
5460	52.28	6.08	V	58.36	73.98	15.62	PK
5460	39.17	6.08	V	45.25	53.98	8.73	AV
5470	52.06	6.19	V	58.25	68.20	9.95	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	50.83	6.08	H	56.91	73.98	17.07	PK
5460	39.21	6.08	H	45.29	53.98	8.69	AV
5470	51.89	6.19	H	58.08	68.20	10.12	PK
5460	51.25	6.08	V	57.33	73.98	16.65	PK
5460	39.57	6.08	V	45.65	53.98	8.33	AV
5470	52.80	6.19	V	58.99	68.20	9.21	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	51.09	6.08	H	57.17	73.98	16.81	PK
5460	39.43	6.08	H	45.51	53.98	8.47	AV
5470	52.82	6.19	H	59.01	68.20	9.19	PK
5460	51.35	6.08	V	57.43	73.98	16.55	PK
5460	39.52	6.08	V	45.6	53.98	8.38	AV
5470	53.03	6.19	V	59.22	68.20	8.98	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	59.33	5.72	H	65.05	73.98	8.93	PK
5460	51.36	6.08	H	57.44	73.98	16.54	PK
5460	39.23	6.08	H	45.31	53.98	8.67	AV
5470	53.91	6.19	H	60.1	68.20	8.10	PK
5460	52.43	6.08	V	58.51	73.98	15.47	PK
5460	39.93	6.08	V	46.01	53.98	7.97	AV
5470	55.79	6.19	V	61.98	68.20	6.22	PK

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

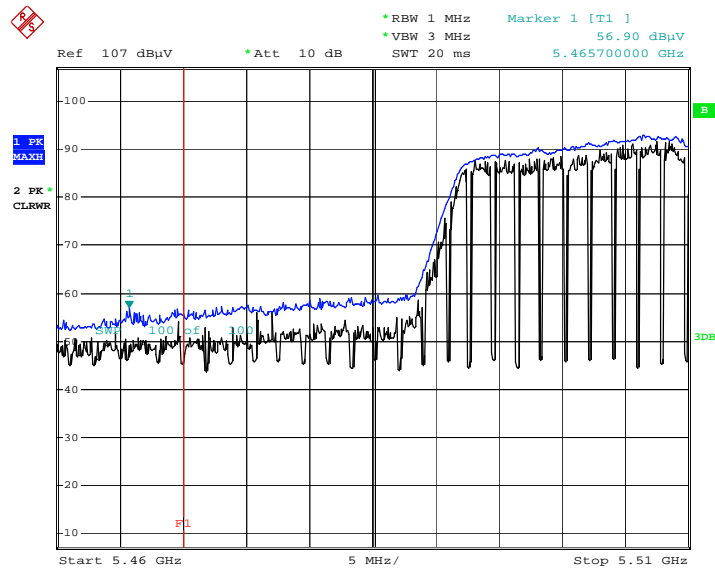
Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5460	52.06	6.08	H	58.14	73.98	15.84	PK
5460	39.88	6.08	H	45.96	53.98	8.02	AV
5470	56.10	6.19	H	62.29	68.20	5.91	PK
5460	52.64	6.08	V	58.72	73.98	15.26	PK
5460	40.49	6.08	V	46.57	53.98	7.41	AV
5470	56.90	6.19	V	63.09	68.20	5.11	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	52.33	6.08	H	58.41	73.98	15.57	PK
5460	41.48	6.08	H	47.56	53.98	6.42	AV
5470	54.10	6.19	H	60.29	68.20	7.91	PK
5460	53.27	6.08	V	59.35	73.98	14.63	PK
5460	41.74	6.08	V	47.82	53.98	6.16	AV
5470	54.57	6.19	V	60.76	68.20	7.44	PK

■ Test Plots(UNII 1, 2A, 2C)

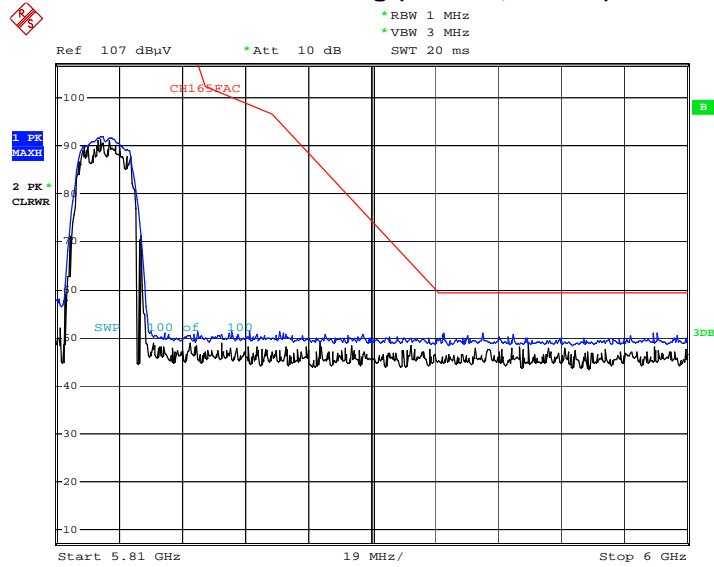
Peak Reading (802.11ac_VHT40, Ch.102, X-V)



Date: 4.JAN.2003 18:41:49

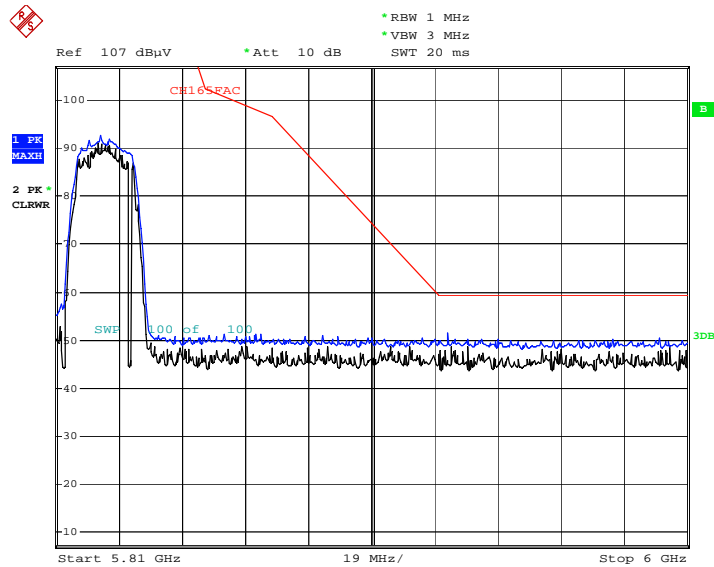
■ Test Plots(UNII 3)

Peak Reading (802.11a, Ch.165)



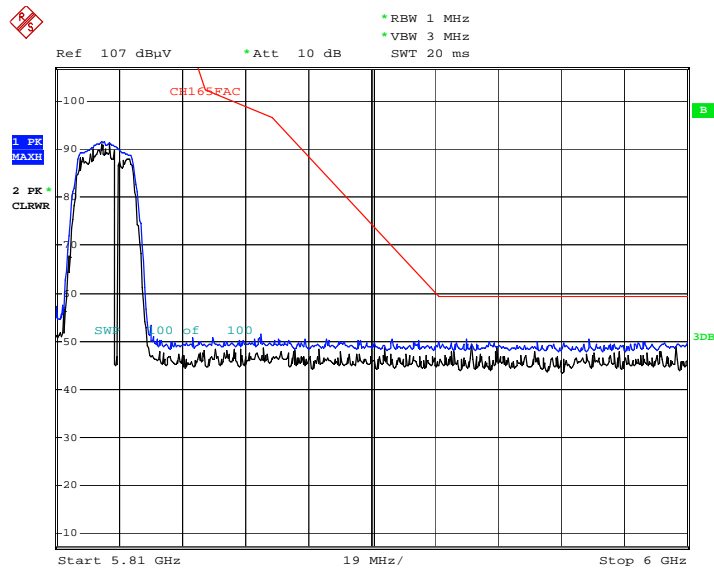
Date: 4.JAN.2003 19:16:50

Peak Reading (802.11n_HT20, Ch.165)



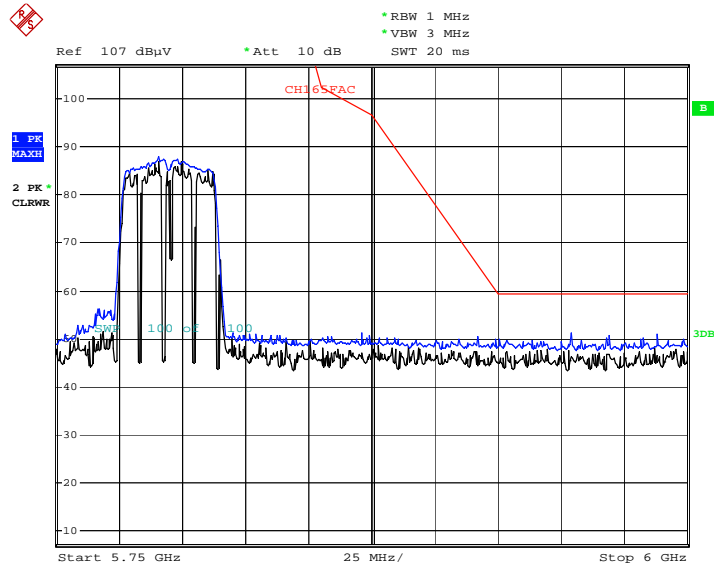
Date: 4.JAN.2003 19:18:20

Peak Reading (802.11ac_VHT20, Ch.165)



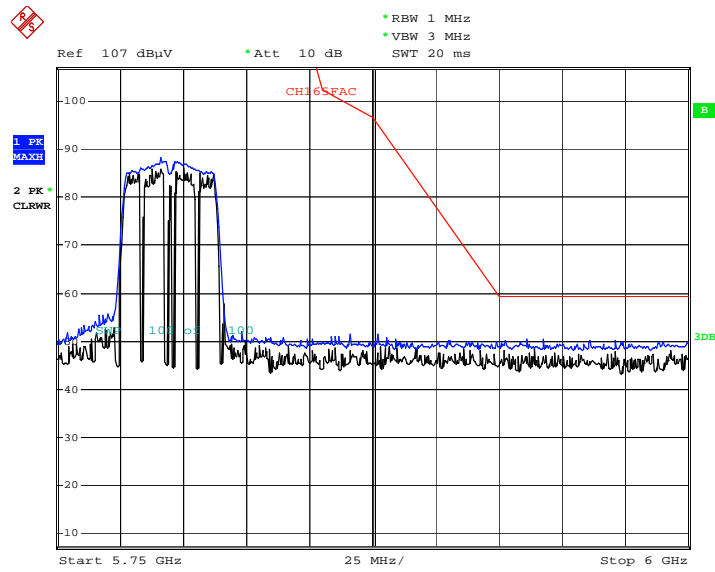
Date: 4.JAN.2003 19:19:28

Peak Reading (802.11n_HT40, Ch.159)



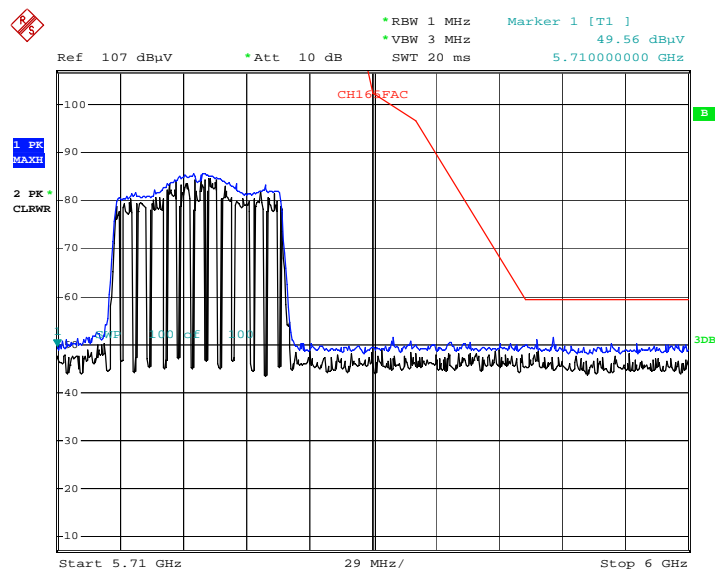
Date: 4.JAN.2003 19:24:48

Peak Reading (802.11ac_VHT40, Ch.159)



Date: 4.JAN.2003 19:26:11

Peak Reading (802.11ac_VHT80, Ch.155)



Date: 4.JAN.2003 19:28:03

9.10 LIST OF TEST EQUIPMENT

10.1 LIST OF TEST EQUIPMENT(Conducted Test)

Manufacturer	Model / Equipment	Calibration Date	Calibration Interval	Serial No.
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	MY51110085
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
Rohde & Schwarz	CBT / Bluetooth Tester	05/17/2018	Annual	100422

Note:

1. Equipment listed above that calibrated during the testing period was set for test after the calibration.
2. Equipment listed above that has a calibration due date during the testing period, the testing is completed before equipment expiration date.

Radiated Test

Manufacturer	Model / Equipment	Calibration Date	Calibration Interval	Serial No.
Innco system	CO3000 / Controller(Antenna mast)	N/A	N/A	CO3000-4p
Innco system	MA4640/800-XP-EP / Antenna Position Tower	N/A	N/A	N/A
Audix	EM1000 / Controller	N/A	N/A	060520
Audix	Turn Table	N/A	N/A	N/A
Rohde & Schwarz	Loop Antenna	08/23/2018	Biennial	1513-175
Schwarzbeck	VULB 9168 / Hybrid Antenna	04/06/2017	Biennial	760
Schwarzbeck	VULB 9160 / TRILOG Antenna	08/09/2018	Biennial	9160-3368
Schwarzbeck	BBHA 9120D / Horn Antenna	06/30/2017	Biennial	1300
Schwarzbeck	BBHA9170 / Horn Antenna(15 GHz ~ 40 GHz)	12/04/2017	Biennial	BBHA9170541
Rohde & Schwarz	FSP(9 kHz ~ 40 GHz) / Spectrum Analyzer	07/24/2018	Annual	100843
Wainwright Instruments	WHK3.0/18G-10EF / High Pass Filter	01/03/2018	Annual	F6
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
Weinschel	2-3 / Attenuator (3 dB)	10/10/2018	Annual	BR0617
H+S	5910-N-50-010 / Attenuator(10 dB)	11/08/2018	Annual	NONE
CERNEX	CBLU1183540B-01 / Power Amplifier	12/26/2017	Annual	25540
CERNEX	CBL06185030 / Power Amplifier	03/28/2018	Annual	28550
CERNEX	CBL18265035 / Power Amplifier	01/10/2018	Annual	22966
CERNEX	CBL26405040 / Power Amplifier	06/29/2018	Annual	25956
TESCOM	TC-3000C / Bluetooth Tester	03/27/2018	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.

11. ANNEX A_ TEST SETUP PHOTO

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

No.	Description
1	HCT-RF-1901-FC011-P
2	HCT-RF-1901-FC012-P
3	HCT-RF-1901-FC013-P
4	HCT-RF-1901-FC014-P
5	HCT-RF-1901-FC015-P