

Report No.: HCT-RF-1901-FC029

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	55.04	-2.57	V	52.47	68.20	15.73	PK
15630	57.42	-3.60	V	53.82	73.98	20.16	PK
15630	45.42	-3.60	V	41.82	53.98	12.16	AV
10420	54.78	-2.57	H	52.21	68.20	15.99	PK
15630	56.58	-3.60	H	52.98	73.98	21.00	PK
15630	45.38	-3.60	H	41.78	53.98	12.20	AV

Report No.: HCT-RF-1901-FC029

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	55.23	-3.16	V	52.07	68.20	16.13	PK
15780	66.73	-3.15	V	63.58	73.98	10.40	PK
15780	52.18	-3.15	V	49.03	53.98	4.95	AV
10520	53.55	-3.16	H	50.39	68.20	17.81	PK
15780	64.69	-3.15	H	61.54	73.98	12.44	PK
15780	50.20	-3.15	H	47.05	53.98	6.93	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	54.70	-2.95	V	51.75	73.98	22.23	PK
10600	43.54	-2.95	V	40.59	53.98	13.39	AV
15900	60.88	-4.05	V	56.83	73.98	17.15	PK
15900	46.45	-4.05	V	42.40	53.98	11.58	AV
10600	53.58	-2.95	H	50.63	73.98	23.35	PK
10600	43.42	-2.95	H	40.47	53.98	13.51	AV
15900	59.64	-4.05	H	55.59	73.98	18.39	PK
15900	46.25	-4.05	H	42.20	53.98	11.78	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	53.80	-2.94	V	50.86	73.98	23.12	PK
10640	42.58	-2.94	V	39.64	53.98	14.34	AV
15960	60.05	-3.62	V	56.43	73.98	17.55	PK
15960	45.33	-3.62	V	41.71	53.98	12.27	AV
10640	53.55	-2.94	H	50.61	73.98	23.37	PK
10640	42.35	-2.94	H	39.41	53.98	14.57	AV
15960	59.66	-3.62	H	56.04	73.98	17.94	PK
15960	44.86	-3.62	H	41.24	53.98	12.74	AV

Report No.: HCT-RF-1901-FC029

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	55.19	-3.16	V	52.03	68.20	16.17	PK
15780	67.02	-3.15	V	63.87	73.98	10.11	PK
15780	52.08	-3.15	V	48.93	53.98	5.05	AV
10520	55.02	-3.16	H	51.86	68.20	16.34	PK
15780	66.85	-3.15	H	63.70	73.98	10.28	PK
15780	51.87	-3.15	H	48.72	53.98	5.26	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	53.56	-2.95	V	50.61	73.98	23.37	PK
10600	43.49	-2.95	V	40.54	53.98	13.44	AV
15900	61.43	-4.05	V	57.38	73.98	16.60	PK
15900	46.00	-4.05	V	41.95	53.98	12.03	AV
10600	53.48	-2.95	H	50.53	73.98	23.45	PK
10600	43.45	-2.95	H	40.50	53.98	13.48	AV
15900	60.88	-4.05	H	56.83	73.98	17.15	PK
15900	45.84	-4.05	H	41.79	53.98	12.19	AV

Report No.: HCT-RF-1901-FC029

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	53.74	-2.94	V	50.80	73.98	23.18	PK
10640	42.51	-2.94	V	39.57	53.98	14.41	AV
15960	60.06	-3.62	V	56.44	73.98	17.54	PK
15960	45.51	-3.62	V	41.89	53.98	12.09	AV
10640	53.67	-2.94	H	50.73	73.98	23.25	PK
10640	42.38	-2.94	H	39.44	53.98	14.54	AV
15960	59.64	-3.62	H	56.02	73.98	17.96	PK
15960	45.32	-3.62	H	41.70	53.98	12.28	AV

Report No.: HCT-RF-1901-FC029

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	55.40	-3.16	V	52.24	68.20	15.96	PK
15780	68.45	-3.15	V	65.30	73.98	8.68	PK
15780	52.05	-3.15	V	48.90	53.98	5.08	AV
10520	55.32	-3.16	H	52.16	68.20	16.04	PK
15780	67.91	-3.15	H	64.76	73.98	9.22	PK
15780	51.78	-3.15	H	48.63	53.98	5.35	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	54.52	-2.95	V	51.57	73.98	22.41	PK
10600	43.58	-2.95	V	40.63	53.98	13.35	AV
15900	60.93	-4.05	V	56.88	73.98	17.10	PK
15900	46.81	-4.05	V	42.76	53.98	11.22	AV
10600	53.64	-2.95	H	50.69	73.98	23.29	PK
10600	43.38	-2.95	H	40.43	53.98	13.55	AV
15900	59.34	-4.05	H	55.29	73.98	18.69	PK
15900	46.65	-4.05	H	42.60	53.98	11.38	AV

Report No.: HCT-RF-1901-FC029

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	54.19	-2.94	V	51.25	73.98	22.73	PK
10640	42.48	-2.94	V	39.54	53.98	14.44	AV
15960	59.50	-3.62	V	55.88	73.98	18.10	PK
15960	44.90	-3.62	V	41.28	53.98	12.70	AV
10640	53.55	-2.94	H	50.61	73.98	23.37	PK
10640	42.33	-2.94	H	39.39	53.98	14.59	AV
15960	58.64	-3.62	H	55.02	73.98	18.96	PK
15960	44.79	-3.62	H	41.17	53.98	12.81	AV

Report No.: HCT-RF-1901-FC029

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	55.74	-2.72	V	53.02	68.20	15.18	PK
15810	61.70	-3.71	V	57.99	73.98	15.99	PK
15810	46.97	-3.71	V	43.26	53.98	10.72	AV
10540	54.98	-2.72	H	52.26	68.20	15.94	PK
15810	61.32	-3.71	H	57.61	73.98	16.37	PK
15810	46.68	-3.71	H	42.97	53.98	11.01	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	54.04	-3.11	V	50.93	73.98	23.05	PK
10620	44.32	-3.11	V	41.21	53.98	12.77	AV
15930	56.88	-4.27	V	52.61	73.98	21.37	PK
15930	42.60	-4.27	V	38.33	53.98	15.65	AV
10620	53.46	-3.11	H	50.35	73.98	23.63	PK
10620	43.38	-3.11	H	40.27	53.98	13.71	AV
15930	56.74	-4.27	H	52.47	73.98	21.51	PK
15930	42.48	-4.27	H	38.21	53.98	15.77	AV



Report No.: HCT-RF-1901-FC029

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	54.76	-2.72	V	52.04	68.20	16.16	PK
15810	62.57	-3.71	V	58.86	73.98	15.12	PK
15810	47.05	-3.71	V	43.34	53.98	10.64	AV
10540	54.55	-2.72	H	51.83	68.20	16.37	PK
15810	62.31	-3.71	H	58.60	73.98	15.38	PK
15810	46.75	-3.71	H	43.04	53.98	10.94	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	54.14	-3.11	V	51.03	73.98	22.95	PK
10620	43.89	-3.11	V	40.78	53.98	13.20	AV
15930	57.01	-4.27	V	52.74	73.98	21.24	PK
15930	42.38	-4.27	V	38.11	53.98	15.87	AV
10620	53.25	-3.11	H	50.14	73.98	23.84	PK
10620	43.40	-3.11	H	40.29	53.98	13.69	AV
15930	56.58	-4.27	H	52.31	73.98	21.67	PK
15930	42.30	-4.27	H	38.03	53.98	15.95	AV

Report No.: HCT-RF-1901-FC029

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	54.26	-2.88	V	51.38	68.20	16.82	PK
15870	55.86	-4.22	V	51.64	73.98	22.34	PK
15870	44.00	-4.22	V	39.78	53.98	14.20	AV
10580	53.80	-2.88	H	50.92	68.20	17.28	PK
15870	55.35	-4.22	H	51.13	73.98	22.85	PK
15870	43.85	-4.22	H	39.63	53.98	14.35	AV

Report No.: HCT-RF-1901-FC029

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	53.37	-1.71	V	51.66	73.98	22.32	PK
11000	41.57	-1.71	V	39.86	53.98	14.12	AV
16500	57.43	-1.82	V	55.61	68.20	12.59	PK
11000	53.12	-1.71	H	51.41	73.98	22.57	PK
11000	40.80	-1.71	H	39.09	53.98	14.89	AV
16500	62.10	-1.82	H	60.28	68.20	7.92	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	53.27	-2.04	V	51.23	73.98	22.75	PK
11200	40.10	-2.04	V	38.06	53.98	15.92	AV
16800	58.41	0.84	V	59.25	68.20	8.95	PK
11200	52.16	-2.04	H	50.12	73.98	23.86	PK
11200	39.84	-2.04	H	37.80	53.98	16.18	AV
16800	58.65	0.84	H	59.49	68.20	8.71	PK

Report No.: HCT-RF-1901-FC029

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	53.41	-1.48	V	51.93	73.98	22.05	PK
11440	39.38	-1.48	V	37.90	53.98	16.08	AV
17160	54.71	2.48	V	57.19	68.20	11.01	PK
11440	53.97	-1.48	H	52.49	73.98	21.49	PK
11440	39.80	-1.48	H	38.32	53.98	15.66	AV
17160	54.85	2.48	H	57.33	68.20	10.87	PK

Report No.: HCT-RF-1901-FC029

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	52.91	-1.71	V	51.20	73.98	22.78	PK
11000	41.56	-1.71	V	39.85	53.98	14.13	AV
16500	61.89	-1.82	V	60.07	68.20	8.13	PK
11000	52.61	-1.71	H	50.90	73.98	23.08	PK
11000	41.44	-1.71	H	39.73	53.98	14.25	AV
16500	62.95	-1.82	H	61.13	68.20	7.07	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	54.22	-2.04	V	52.18	73.98	21.80	PK
11200	40.58	-2.04	V	38.54	53.98	15.44	AV
16800	58.74	0.84	V	59.58	68.20	8.62	PK
11200	53.32	-2.04	H	51.28	73.98	22.70	PK
11200	40.23	-2.04	H	38.19	53.98	15.79	AV
16800	59.16	0.84	H	60.00	68.20	8.20	PK

Report No.: HCT-RF-1901-FC029

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	54.38	-1.48	V	52.90	73.98	21.08	PK
11440	40.74	-1.48	V	39.26	53.98	14.72	AV
17160	55.38	2.48	V	57.86	68.20	10.34	PK
11440	54.29	-1.48	H	52.81	73.98	21.17	PK
11440	40.50	-1.48	H	39.02	53.98	14.96	AV
17160	56.12	2.48	H	58.60	68.20	9.60	PK

Report No.: HCT-RF-1901-FC029

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	53.29	-1.71	V	51.58	73.98	22.40	PK
11000	41.51	-1.71	V	39.80	53.98	14.18	AV
16500	60.90	-1.82	V	59.08	68.20	9.12	PK
11000	53.02	-1.71	H	51.31	73.98	22.67	PK
11000	41.29	-1.71	H	39.58	53.98	14.40	AV
16500	62.29	-1.82	H	60.47	68.20	7.73	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	54.61	-2.04	V	52.57	73.98	21.41	PK
11200	40.49	-2.04	V	38.45	53.98	15.53	AV
16800	58.91	0.84	V	59.75	68.20	8.45	PK
11200	52.79	-2.04	H	50.75	73.98	23.23	PK
11200	40.34	-2.04	H	38.30	53.98	15.68	AV
16800	59.51	0.84	H	60.35	68.20	7.85	PK

Report No.: HCT-RF-1901-FC029

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	54.51	-1.48	V	53.03	73.98	20.95	PK
11440	40.42	-1.48	V	38.94	53.98	15.04	AV
17160	55.00	2.48	V	57.48	68.20	10.72	PK
11440	54.21	-1.48	H	52.73	73.98	21.25	PK
11440	40.28	-1.48	H	38.80	53.98	15.18	AV
17160	55.46	2.48	H	57.94	68.20	10.26	PK



Report No.: HCT-RF-1901-FC029

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	53.23	-1.51	V	51.72	73.98	22.26	PK
11020	42.07	-1.51	V	40.56	53.98	13.42	AV
16530	56.99	-2.25	V	54.74	68.20	13.46	PK
11020	52.14	-1.51	H	50.63	73.98	23.35	PK
11020	41.81	-1.51	H	40.30	53.98	13.68	AV
16530	57.86	-2.25	H	55.61	68.20	12.59	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	53.11	-1.73	V	51.38	73.98	22.60	PK
11180	42.89	-1.73	V	41.16	53.98	12.82	AV
16770	55.82	-1.41	V	54.41	68.20	13.79	PK
11180	54.89	-1.73	H	53.16	73.98	20.82	PK
11180	43.39	-1.73	H	41.66	53.98	12.32	AV
16770	56.22	-1.41	H	54.81	68.20	13.39	PK

Report No.: HCT-RF-1901-FC029

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	53.65	-1.42	V	52.23	73.98	21.75	PK
11420	40.02	-1.42	V	38.60	53.98	15.38	AV
17130	51.46	2.14	V	53.60	68.20	14.60	PK
11420	52.68	-1.42	H	51.26	73.98	22.72	PK
11420	39.85	-1.42	H	38.43	53.98	15.55	AV
17130	53.14	2.14	H	55.28	68.20	12.92	PK

Report No.: HCT-RF-1901-FC029

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	54.20	-1.51	V	52.69	73.98	21.29	PK
11020	42.35	-1.51	V	40.84	53.98	13.14	AV
16530	57.80	-2.25	V	55.55	68.20	12.65	PK
11020	51.06	-1.51	H	49.55	73.98	24.43	PK
11020	42.23	-1.51	H	40.72	53.98	13.26	AV
16530	57.85	-2.25	H	55.60	68.20	12.60	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	54.80	-1.73	V	53.07	73.98	20.91	PK
11180	43.51	-1.73	V	41.78	53.98	12.20	AV
16770	55.94	-1.41	V	54.53	68.20	13.67	PK
11180	55.12	-1.73	H	53.39	73.98	20.59	PK
11180	43.35	-1.73	H	41.62	53.98	12.36	AV
16770	56.52	-1.41	H	55.11	68.20	13.09	PK

Report No.: HCT-RF-1901-FC029

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	54.11	-1.42	V	52.69	73.98	21.29	PK
11420	40.10	-1.42	V	38.68	53.98	15.30	AV
17130	52.94	2.14	V	55.08	68.20	13.12	PK
11420	52.74	-1.42	H	51.32	73.98	22.66	PK
11420	39.88	-1.42	H	38.46	53.98	15.52	AV
17130	53.51	2.14	H	55.65	68.20	12.55	PK

Report No.: HCT-RF-1901-FC029

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	-1.56	V	51.67	73.98	22.31	PK
11060	44.41	-1.56	V	42.85	53.98	11.13	AV
16590	52.78	-2.06	V	50.72	68.20	17.48	PK
11060	53.17	-1.56	H	51.61	73.98	22.37	PK
11060	43.80	-1.56	H	42.24	53.98	11.74	AV
16590	53.10	-2.06	H	51.04	68.20	17.16	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	53.89	-2.33	V	51.56	73.98	22.42	PK
11220	45.12	-2.33	V	42.79	53.98	11.19	AV
16830	53.23	0.65	V	53.88	68.20	14.32	PK
11220	54.85	-2.33	H	52.52	73.98	21.46	PK
11220	44.05	-2.33	H	41.72	53.98	12.26	AV
16830	54.61	0.65	H	55.26	68.20	12.94	PK

Report No.: HCT-RF-1901-FC029

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	52.41	-1.62	V	50.79	73.98	23.19	PK
11380	42.90	-1.62	V	41.28	53.98	12.70	AV
17070	52.12	1.78	V	53.90	68.20	14.30	PK
11380	52.33	-1.62	H	50.71	73.98	23.27	PK
11380	42.89	-1.62	H	41.27	53.98	12.71	AV
17070	51.70	1.78	H	53.48	68.20	14.72	PK

Report No.: HCT-RF-1901-FC029

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	54.90	-1.77	V	53.13	73.98	20.85	PK
11490	41.60	-1.77	V	39.83	53.98	14.15	AV
17235	54.02	2.87	V	56.89	68.20	11.31	PK
11490	54.25	-1.77	H	52.48	73.98	21.50	PK
11490	41.44	-1.77	H	39.67	53.98	14.31	AV
17235	54.22	2.87	H	57.09	68.20	11.11	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	55.43	-1.83	V	53.60	73.98	20.38	PK
11570	41.77	-1.83	V	39.94	53.98	14.04	AV
17355	51.73	3.26	V	54.99	68.20	13.22	PK
11570	54.62	-1.83	H	52.79	73.98	21.19	PK
11570	41.51	-1.83	H	39.68	53.98	14.30	AV
17355	53.60	3.26	H	56.86	68.20	11.35	PK

Report No.: HCT-RF-1901-FC029

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	55.41	-2.26	V	53.15	73.98	20.83	PK
11650	43.05	-2.26	V	40.79	53.98	13.19	AV
17475	53.63	4.47	V	58.10	68.20	10.11	PK
11650	55.30	-2.26	H	53.04	73.98	20.94	PK
11650	42.58	-2.26	H	40.32	53.98	13.66	AV
17475	54.33	4.47	H	58.80	68.20	9.41	PK



Report No.: HCT-RF-1901-FC029

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	54.29	-1.77	V	52.52	73.98	21.46	PK
11490	41.37	-1.77	V	39.60	53.98	14.38	AV
17235	54.89	2.87	V	57.76	68.20	10.44	PK
11490	53.99	-1.77	H	52.22	73.98	21.76	PK
11490	41.30	-1.77	H	39.53	53.98	14.45	AV
17235	54.96	2.87	H	57.83	68.20	10.37	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	54.06	-1.83	V	52.23	73.98	21.75	PK
11570	41.54	-1.83	V	39.71	53.98	14.27	AV
17355	53.08	3.26	V	56.34	68.20	11.87	PK
11570	53.61	-1.83	H	51.78	73.98	22.20	PK
11570	41.67	-1.83	H	39.84	53.98	14.14	AV
17355	53.57	3.26	H	56.83	68.20	11.38	PK

Report No.: HCT-RF-1901-FC029

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	55.78	-2.26	V	53.52	73.98	20.46	PK
11650	42.76	-2.26	V	40.50	53.98	13.48	AV
17475	53.02	4.47	V	57.49	68.20	10.72	PK
11650	54.98	-2.26	H	52.72	73.98	21.26	PK
11650	42.55	-2.26	H	40.29	53.98	13.69	AV
17475	54.37	4.47	H	58.84	68.20	9.37	PK

Report No.: HCT-RF-1901-FC029

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	54.74	-1.77	V	52.97	73.98	21.01	PK
11490	41.63	-1.77	V	39.86	53.98	14.12	AV
17235	53.68	2.87	V	56.55	68.20	11.65	PK
11490	53.56	-1.77	H	51.79	73.98	22.19	PK
11490	41.58	-1.77	H	39.81	53.98	14.17	AV
17235	54.91	2.87	H	57.78	68.20	10.42	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	54.95	-1.83	V	53.12	73.98	20.86	PK
11570	41.60	-1.83	V	39.77	53.98	14.21	AV
17355	52.99	3.26	V	56.25	68.20	11.96	PK
11570	53.58	-1.83	H	51.75	73.98	22.23	PK
11570	41.44	-1.83	H	39.61	53.98	14.37	AV
17355	53.68	3.26	H	56.94	68.20	11.27	PK

Report No.: HCT-RF-1901-FC029

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	55.17	-2.26	V	52.91	73.98	21.07	PK
11650	42.99	-2.26	V	40.73	53.98	13.25	AV
17475	53.89	4.47	V	58.36	68.20	9.85	PK
11650	54.12	-2.26	H	51.86	73.98	22.12	PK
11650	42.85	-2.26	H	40.59	53.98	13.39	AV
17475	54.20	4.47	H	58.67	68.20	9.54	PK

Report No.: HCT-RF-1901-FC029

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	53.28	-1.53	V	51.75	73.98	22.23	PK
11510	41.29	-1.53	V	39.76	53.98	14.22	AV
17265	51.63	2.80	V	54.43	68.20	13.78	PK
11510	52.67	-1.53	H	51.14	73.98	22.84	PK
11510	41.19	-1.53	H	39.66	53.98	14.32	AV
17265	52.00	2.80	H	54.80	68.20	13.41	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	53.28	-1.80	V	51.48	73.98	22.50	PK
11590	41.71	-1.80	V	39.91	53.98	14.07	AV
17385	50.71	3.52	V	54.23	68.20	13.97	PK
11590	52.89	-1.80	H	51.09	73.98	22.89	PK
11590	41.61	-1.80	H	39.81	53.98	14.17	AV
17385	51.28	3.52	H	54.80	68.20	13.40	PK

Report No.: HCT-RF-1901-FC029

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	53.25	-1.53	V	51.72	73.98	22.26	PK
11510	41.34	-1.53	V	39.81	53.98	14.17	AV
17265	51.90	2.80	V	54.70	68.20	13.51	PK
11510	52.89	-1.53	H	51.36	73.98	22.62	PK
11510	41.30	-1.53	H	39.77	53.98	14.21	AV
17265	52.50	2.80	H	55.30	68.20	12.91	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	53.18	-1.80	V	51.38	73.98	22.60	PK
11590	41.60	-1.80	V	39.80	53.98	14.18	AV
17385	51.32	3.52	V	54.84	68.20	13.36	PK
11590	52.95	-1.80	H	51.15	73.98	22.83	PK
11590	41.52	-1.80	H	39.72	53.98	14.26	AV
17385	51.74	3.52	H	55.26	68.20	12.94	PK

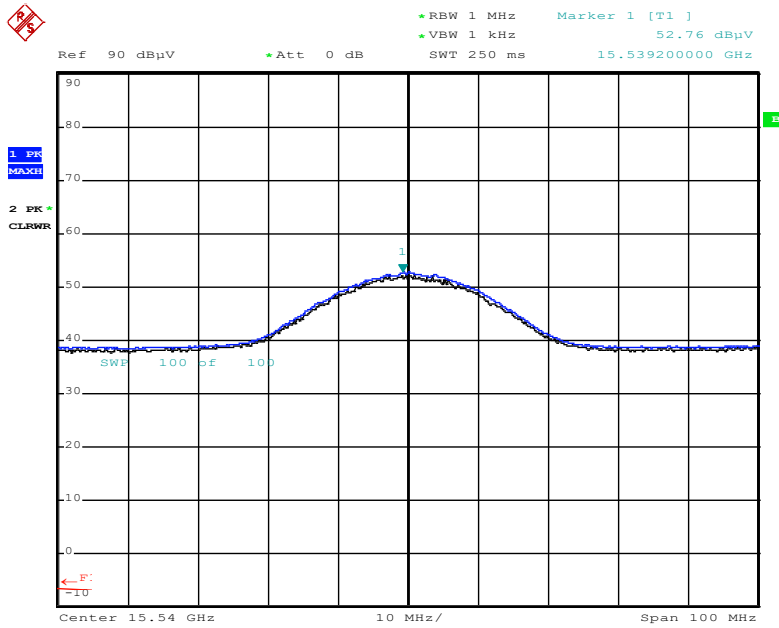
Report No.: HCT-RF-1901-FC029

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	52.16	-1.20	V	50.96	73.98	23.02	PK
11550	40.83	-1.20	V	39.63	53.98	14.35	AV
17325	50.91	3.52	V	54.43	68.20	13.78	PK
11550	51.87	-1.20	H	50.67	73.98	23.31	PK
11550	40.57	-1.20	H	39.37	53.98	14.61	AV
17325	51.35	3.52	H	54.87	68.20	13.34	PK

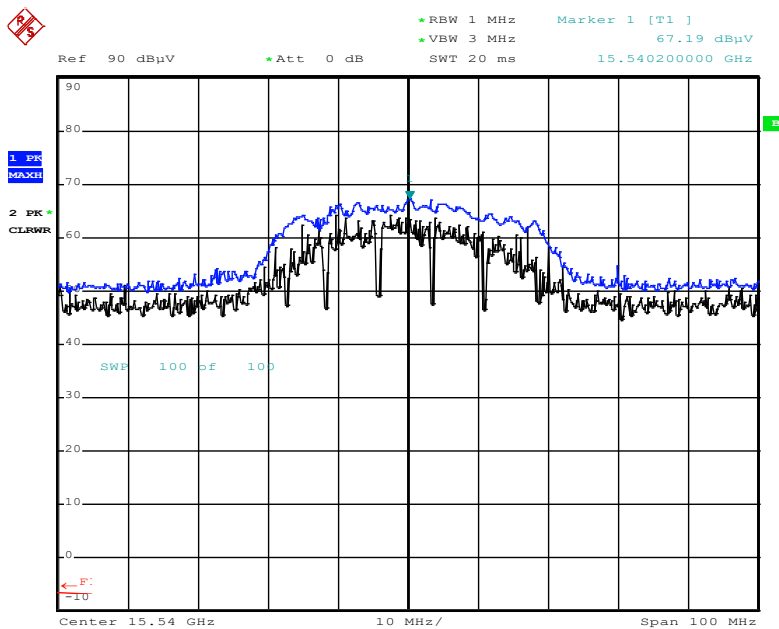
■ Test Plots

Peak Reading (802.11a, Ch.36 3rd Harmonic, X-V)



Date: 10.JAN.2019 16:41:00

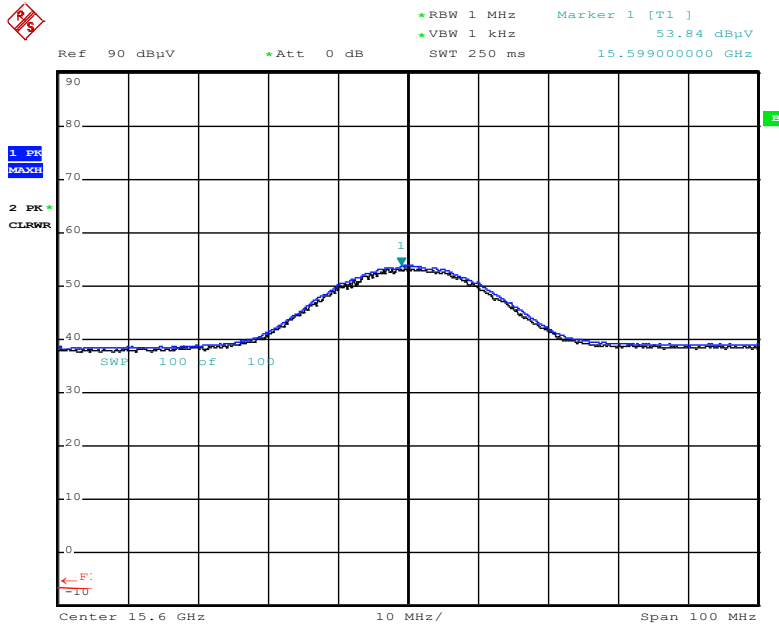
Peak Reading (802.11a, Ch.36 3rd Harmonic, X-V)



Date: 10.JAN.2019 16:41:46

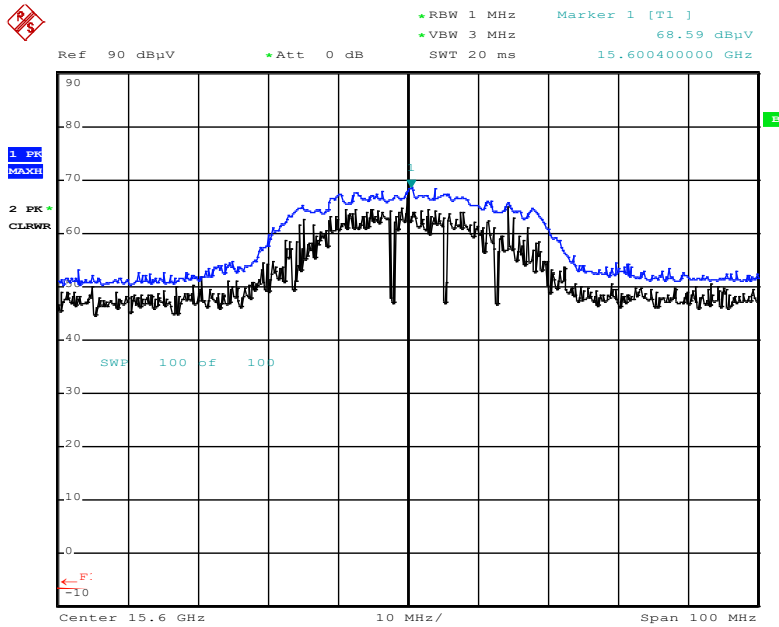


**Peak Reading (802.11a, Ch.40 3rd Harmonic, X-V)**



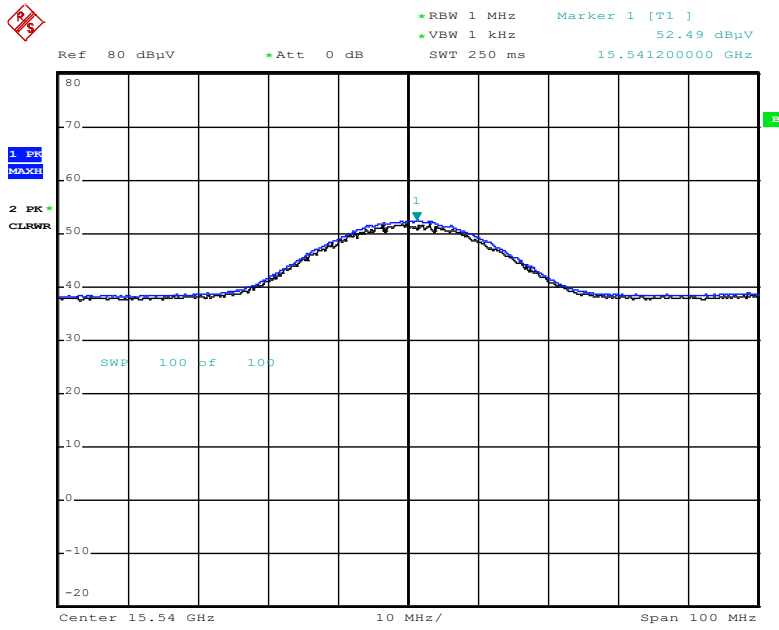
Date: 10.JAN.2019 16:26:46

**Peak Reading (802.11a, Ch.40 3rd Harmonic, X-V)**



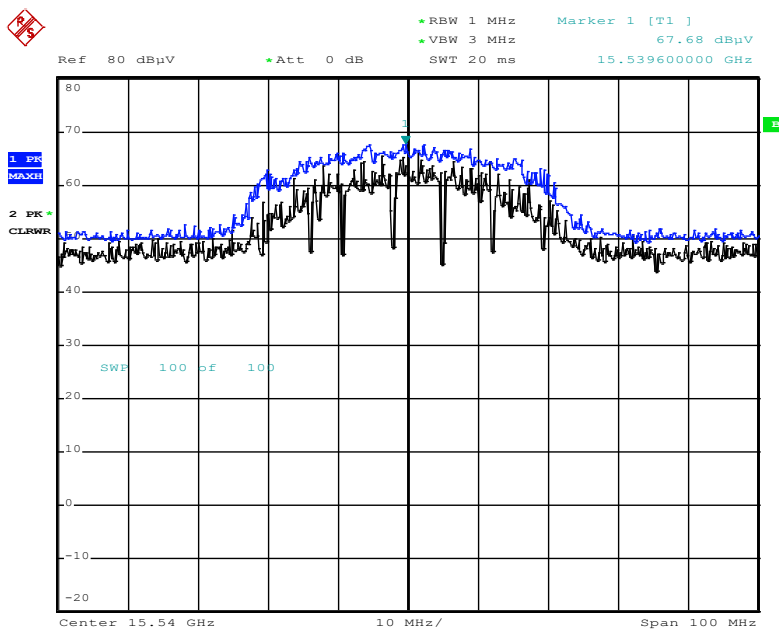
Date: 10.JAN.2019 16:28:48

**Peak Reading (802.11n\_HT20, Ch.36 3rd Harmonic, X-V)**



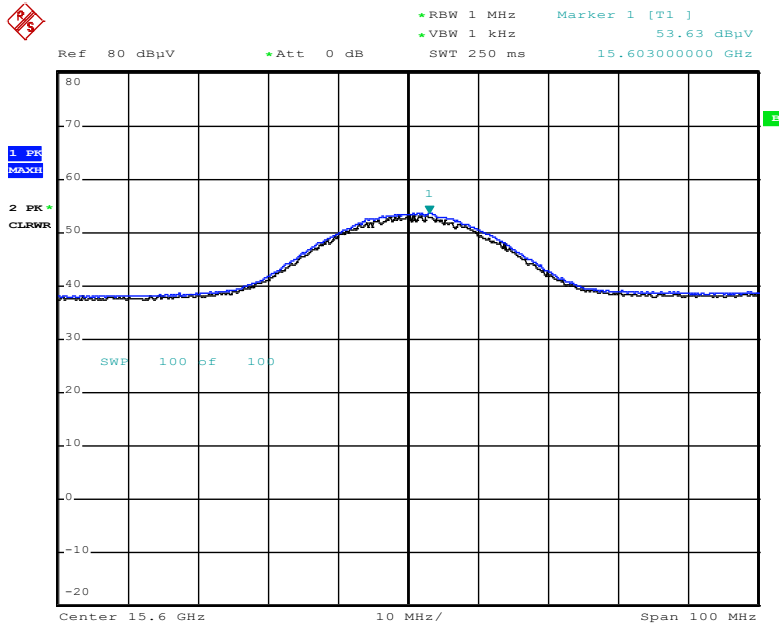
Date: 11.JAN.2019 17:45:43

**Peak Reading (802.11n\_HT20, Ch.36 3rd Harmonic, X-V)**



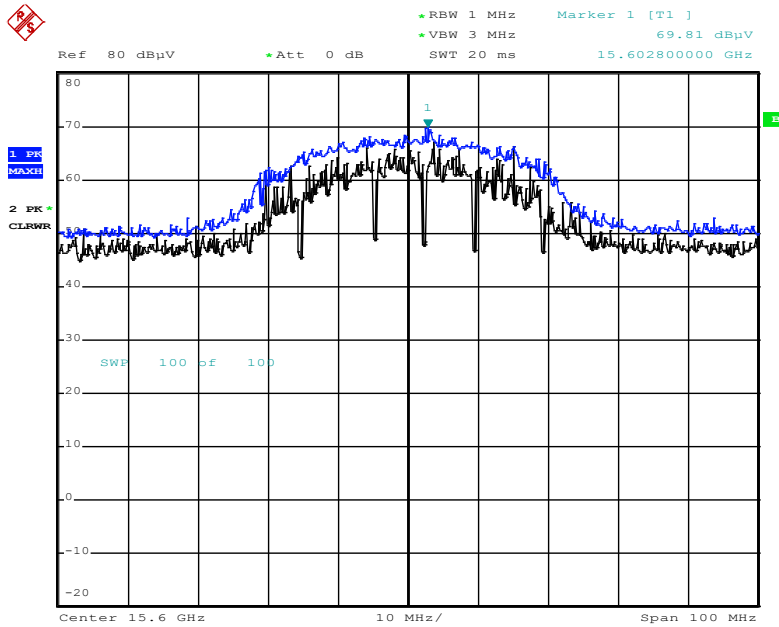
Date: 11.JAN.2019 17:46:14

**Peak Reading (802.11n\_HT20, Ch.40 3rd Harmonic, X-V)**



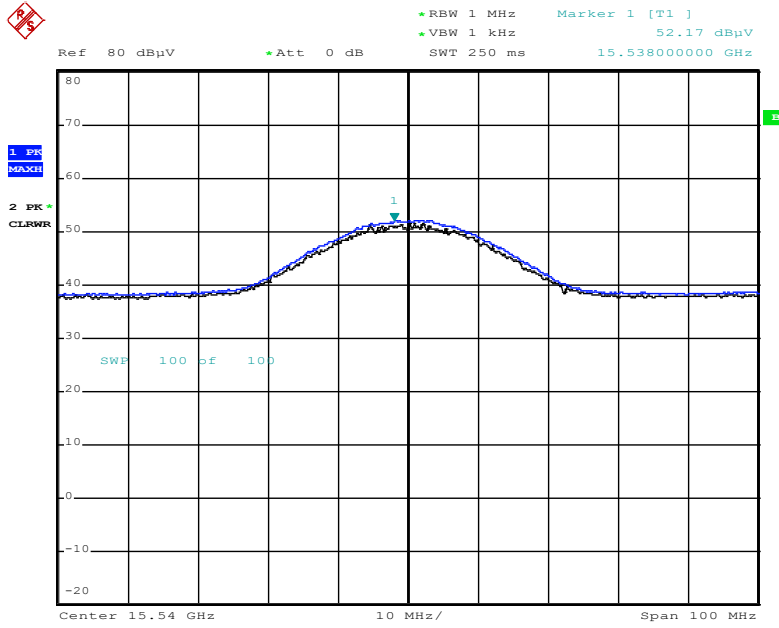
Date: 11.JAN.2019 17:47:57

**Peak Reading (802.11n\_HT20, Ch.40 3rd Harmonic, X-V)**



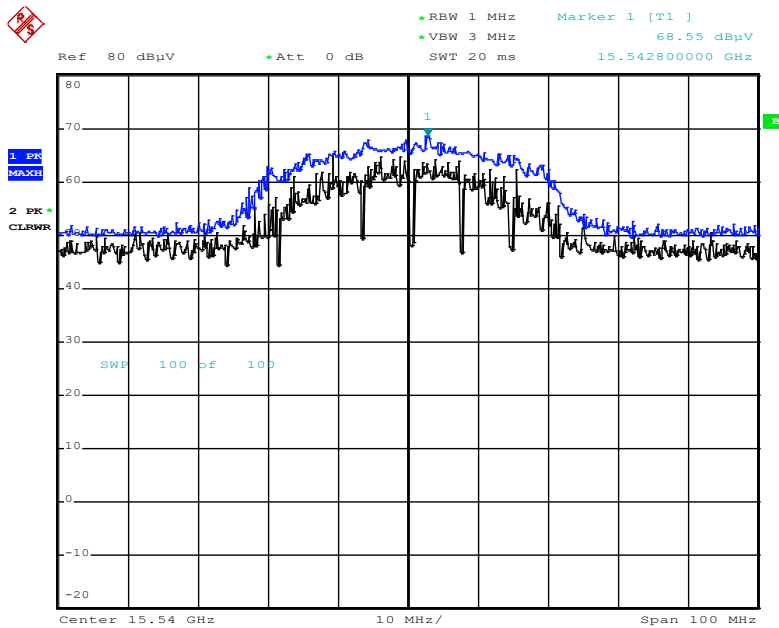
Date: 11.JAN.2019 17:48:20

**Peak Reading (802.11ac\_VHT20, Ch.36 3rd Harmonic, X-V)**



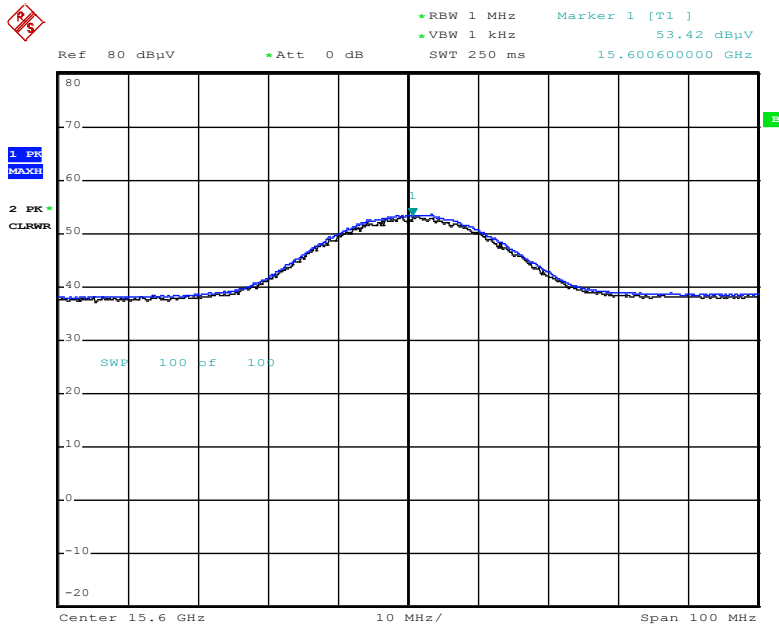
Date: 11.JAN.2019 17:54:28

**Peak Reading (802.11ac\_VHT20, Ch.36 3rd Harmonic, X-V)**



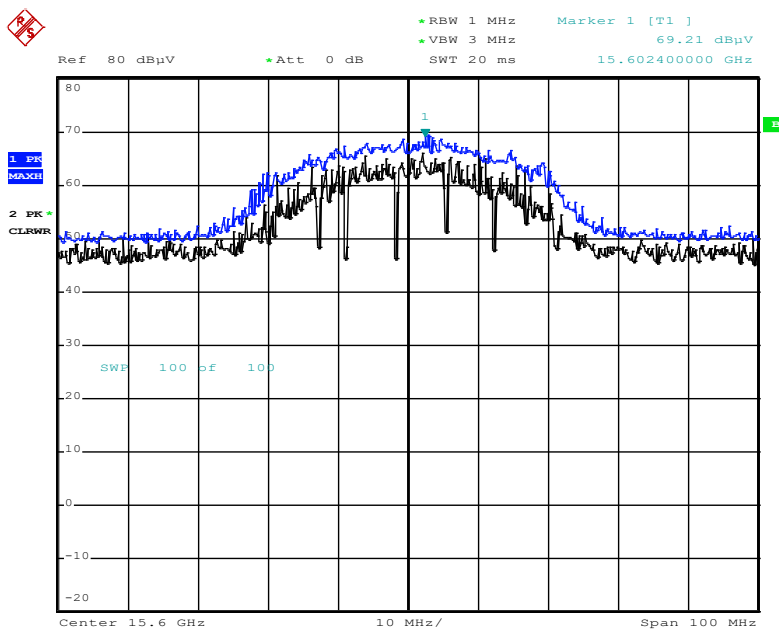
Date: 11.JAN.2019 17:53:17

**Peak Reading (802.11ac\_VHT20, Ch.40 3rd Harmonic, X-V)**



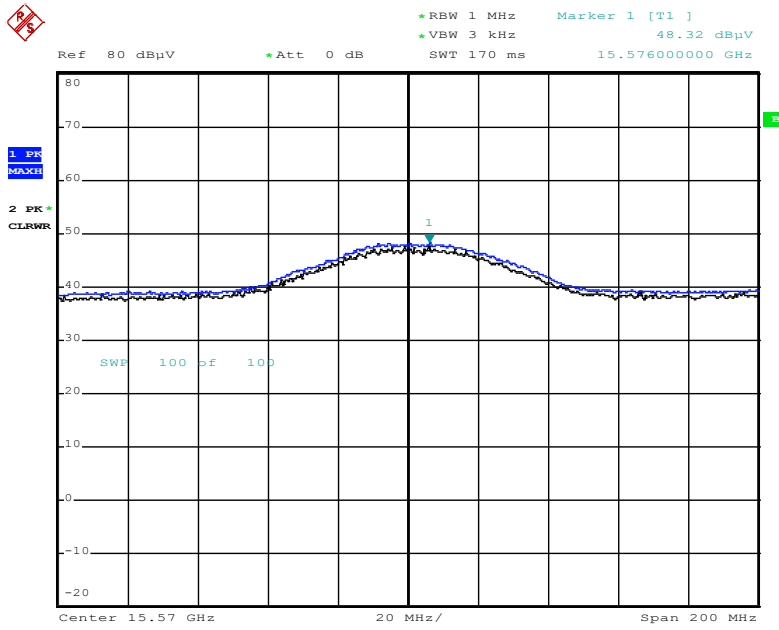
Date: 11.JAN.2019 17:51:37

**Peak Reading (802.11ac\_VHT20, Ch.40 3rd Harmonic, X-V)**



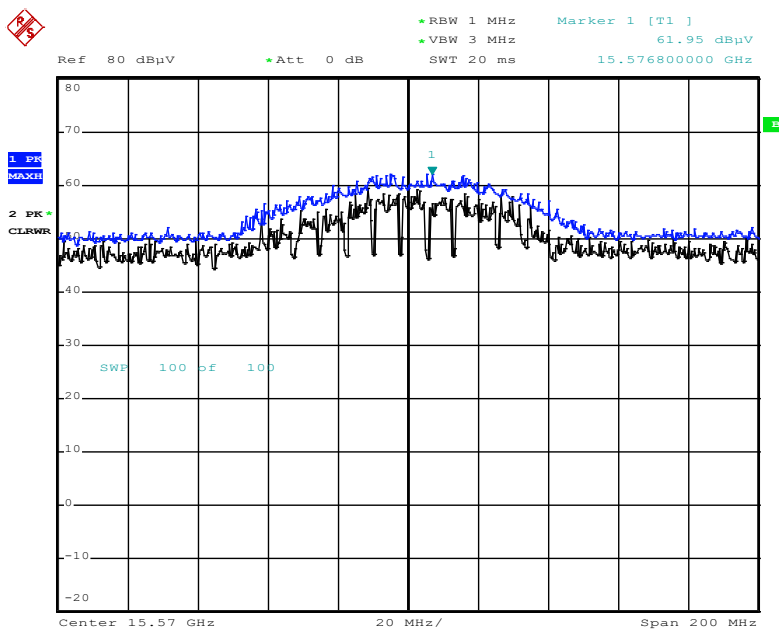
Date: 11.JAN.2019 17:52:00

**Peak Reading (802.11n\_HT40, Ch.38 3rd Harmonic, X-V)**



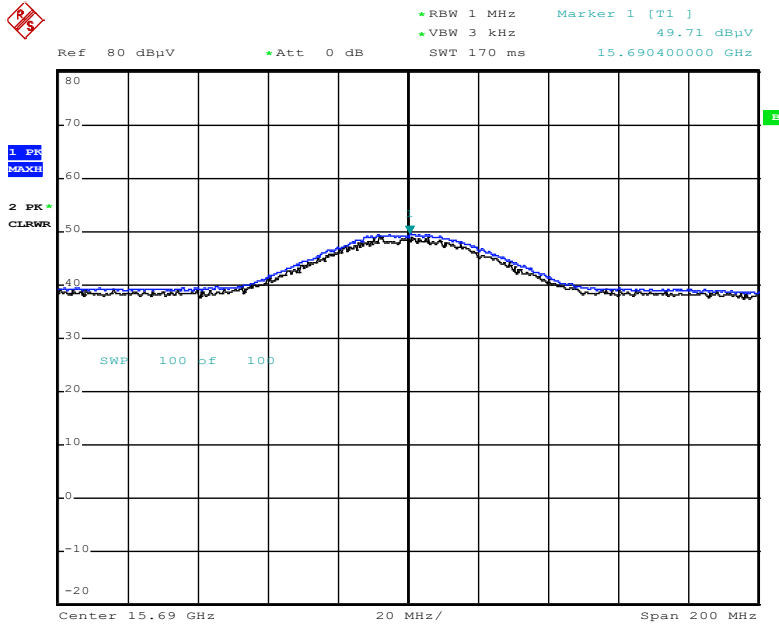
Date: 11.JAN.2019 17:57:19

**Peak Reading (802.11n\_HT40, Ch.38 3rd Harmonic, X-V)**



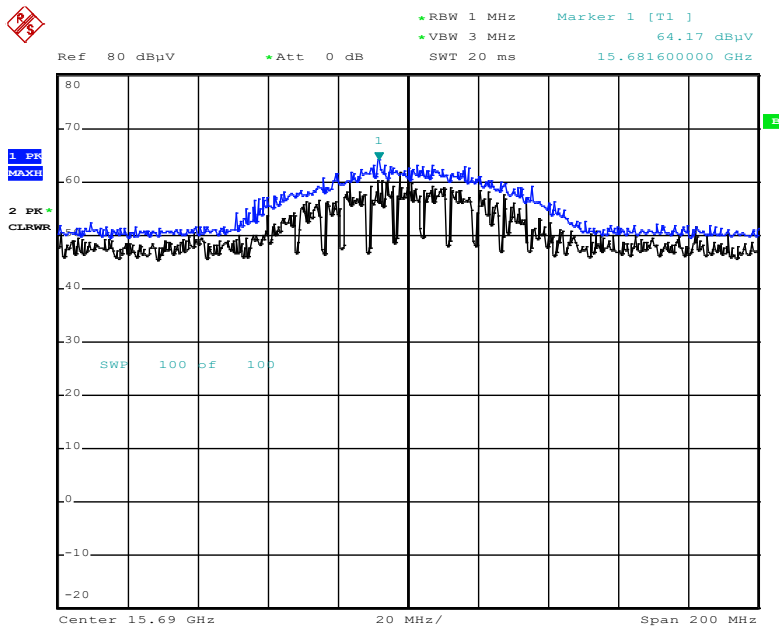
Date: 11.JAN.2019 17:57:51

**Peak Reading (802.11n\_HT40, Ch.46 3rd Harmonic, X-V)**



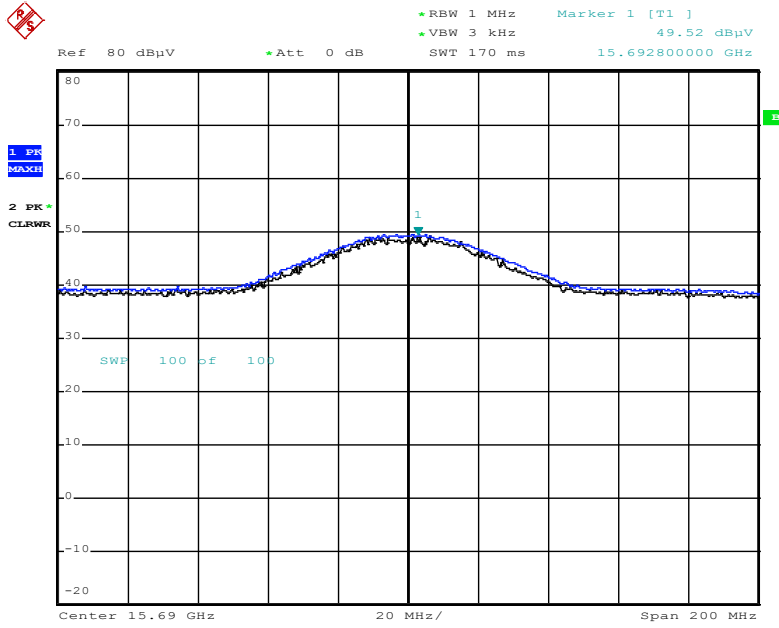
Date: 11.JAN.2019 17:58:52

**Peak Reading (802.11n\_HT40, Ch.46 3rd Harmonic, X-V)**



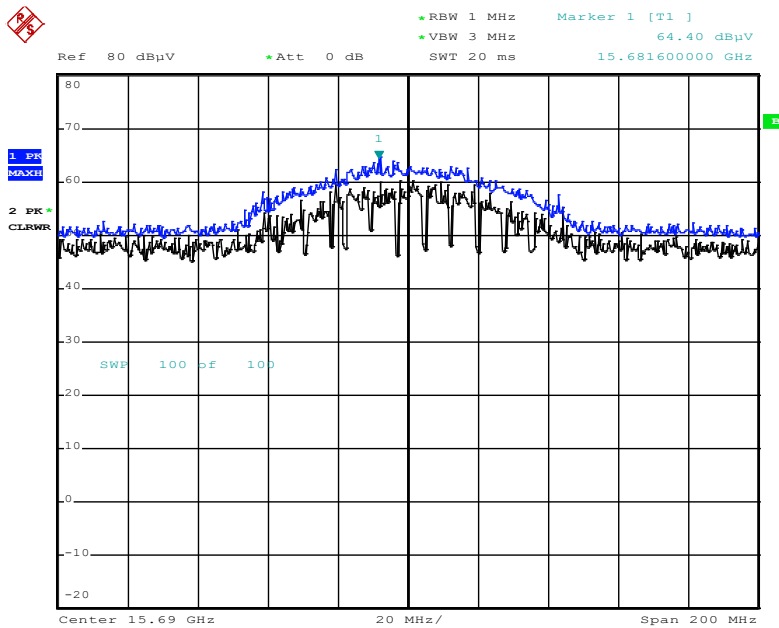
Date: 11.JAN.2019 17:59:11

**Peak Reading (802.11ac\_VHT40, Ch.46 3rd Harmonic, X-V)**



Date: 11.JAN.2019 18:00:51

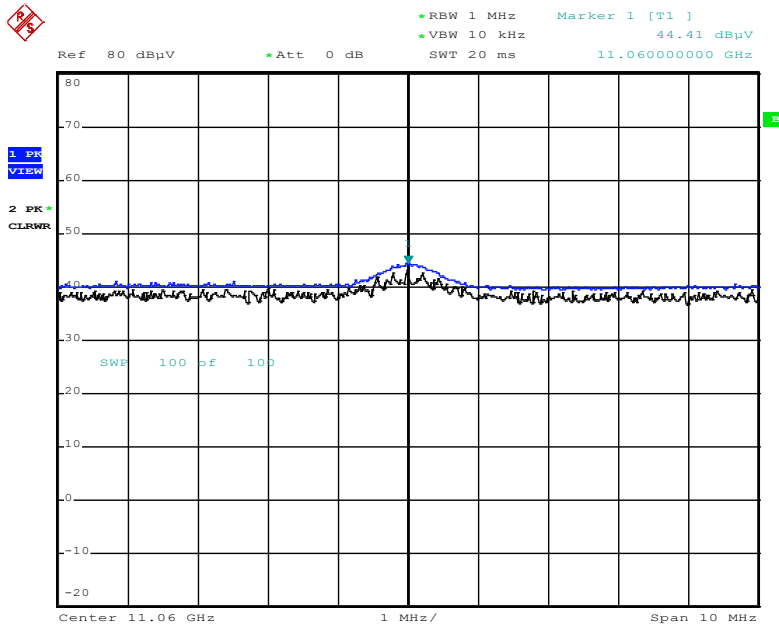
**Peak Reading (802.11ac\_VHT40, Ch.46 3rd Harmonic, X-V)**



Date: 11.JAN.2019 18:01:26

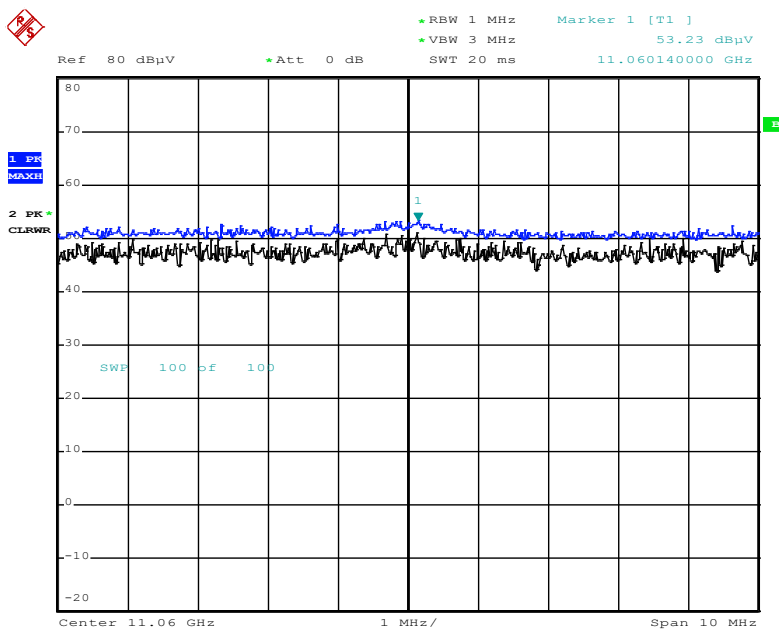


**Peak Reading (802.11ac\_VHT80, Ch.106 2nd Harmonic, Z-V)**



Date: 15.JAN.2019 12:54:50

**Peak Reading (802.11ac\_VHT80, Ch.106 2nd Harmonic, Z-V)**



Date: 15.JAN.2019 12:55:46

**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	59.92	3.49	H	63.41	73.98	10.57	PK
5150	44.69	3.49	H	48.18	53.98	5.80	AV
5150	58.87	3.49	V	62.36	73.98	11.62	PK
5150	44.07	3.49	V	47.56	53.98	6.42	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	61.20	3.49	H	64.69	73.98	9.29	PK
5150	44.93	3.49	H	48.42	53.98	5.56	AV
5150	59.99	3.49	V	63.48	73.98	10.50	PK
5150	43.95	3.49	V	47.44	53.98	6.54	AV

Report No.: HCT-RF-1901-FC029

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

Frequency [MHz]	Reading dBuV	AN.+CL+AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5150	61.38	3.49	H	64.87	73.98	9.11	PK
5150	45.38	3.49	H	48.87	53.98	5.11	AV
5150	60.46	3.49	V	63.95	73.98	10.03	PK
5150	44.89	3.49	V	48.38	53.98	5.60	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	64.13	3.49	H	67.62	73.98	6.36	PK
5150	46.13	3.49	H	49.62	53.98	4.36	AV
5150	62.61	3.49	V	66.1	73.98	7.88	PK
5150	46.33	3.49	V	49.82	53.98	4.16	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	62.91	3.49	H	66.40	73.98	7.58	PK
5150	47.19	3.49	H	50.68	53.98	3.30	AV
5150	66.66	3.49	V	70.15	73.98	3.83	PK
5150	47.33	3.49	V	50.82	53.98	3.16	AV

Report No.: HCT-RF-1901-FC029

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	59.65	3.49	H	63.14	73.98	10.84	PK
5150	46.90	3.49	H	50.39	53.98	3.59	AV
5150	59.70	3.49	V	63.19	73.98	10.79	PK
5150	47.00	3.49	V	50.49	53.98	3.49	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	62.09	3.92	H	66.01	73.98	7.97	PK
5350	43.77	3.92	H	47.69	53.98	6.29	AV
5350	62.86	3.92	V	66.78	73.98	7.20	PK
5350	44.08	3.92	V	48	53.98	5.98	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	63.25	3.92	H	67.17	73.98	6.81	PK
5350	44.24	3.92	H	48.16	53.98	5.82	AV
5350	63.49	3.92	V	67.41	73.98	6.57	PK
5350	44.43	3.92	V	48.35	53.98	5.63	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	63.26	3.92	H	67.18	73.98	6.80	PK
5350	43.91	3.92	H	47.83	53.98	6.15	AV
5350	63.55	3.92	V	67.47	73.98	6.51	PK
5350	43.94	3.92	V	47.86	53.98	6.12	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	62.08	3.92	H	66.00	73.98	7.98	PK
5350	46.94	3.92	H	50.86	53.98	3.12	AV
5350	62.16	3.92	V	66.08	73.98	7.90	PK
5350	47.49	3.92	V	51.41	53.98	2.57	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	61.43	3.92	H	65.35	73.98	8.63	PK
5350	46.70	3.92	H	50.62	53.98	3.36	AV
5350	61.47	3.92	V	65.39	73.98	8.59	PK
5350	47.20	3.92	V	51.12	53.98	2.86	AV



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

Frequency [MHz]	Reading dBuV	AN.+CL+AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5350	59.92	3.92	H	63.84	73.98	10.14	PK
5350	47.09	3.92	H	51.01	53.98	2.97	AV
5350	60.88	3.92	V	64.8	73.98	9.18	PK
5350	47.56	3.92	V	51.48	53.98	2.50	AV

Report No.: HCT-RF-1901-FC029

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	53.63	5.00	H	58.63	73.98	15.35	PK
5460	39.35	5.00	H	44.35	53.98	9.63	AV
5470	59.49	4.96	H	64.45	68.20	3.75	PK
5460	54.02	5.00	V	59.02	73.98	14.96	PK
5460	39.58	5.00	V	44.58	53.98	9.40	AV
5470	59.67	4.96	V	64.63	68.20	3.57	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	51.73	5.00	H	56.73	73.98	17.25	PK
5460	37.95	5.00	H	42.95	53.98	11.03	AV
5470	58.26	4.96	H	63.22	68.20	4.98	PK
5460	52.07	5.00	V	57.07	73.98	16.91	PK
5460	38.18	5.00	V	43.18	53.98	10.80	AV
5470	58.92	4.96	V	63.88	68.20	4.32	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	51.97	5.00	H	56.97	73.98	17.01	PK
5460	37.60	5.00	H	42.6	53.98	11.38	AV
5470	58.57	4.96	H	63.53	68.20	4.67	PK
5460	52.02	5.00	V	57.02	73.98	16.96	PK
5460	37.71	5.00	V	42.71	53.98	11.27	AV
5470	58.72	4.96	V	63.68	68.20	4.52	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	53.62	5.00	H	58.62	73.98	15.36	PK
5460	39.45	5.00	H	44.45	53.98	9.53	AV
5470	58.77	4.96	H	63.73	68.20	4.47	PK
5460	52.42	5.00	V	57.42	73.98	16.56	PK
5460	39.53	5.00	V	44.53	53.98	9.45	AV
5470	58.49	4.96	V	63.45	68.20	4.75	PK

Band : UNII 2C  
 Operation Mode: 802.11 ac\_VHT40  
 Transfer MCS Index: 0  
 Operating Frequency 5510 MHz  
 Channel No. 102 Ch

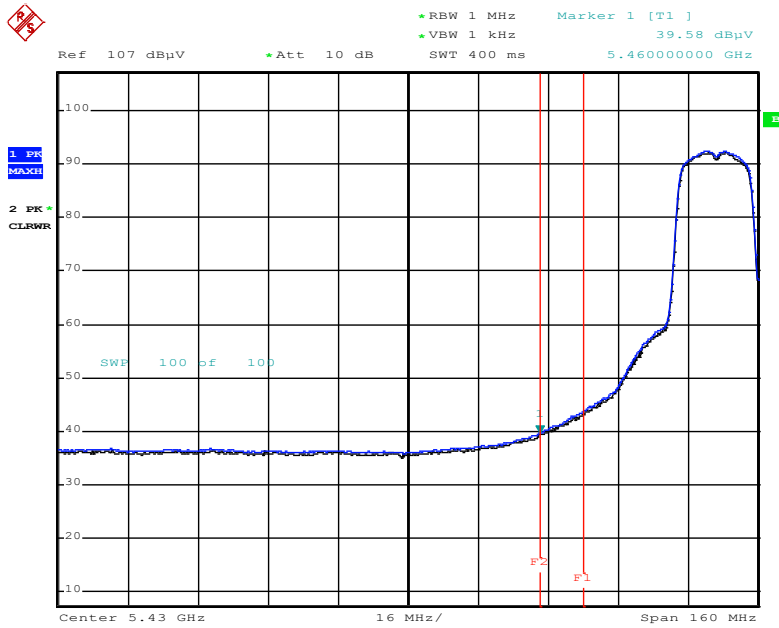
Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5460	52.11	5.00	H	57.11	73.98	16.87	PK
5460	39.08	5.00	H	44.08	53.98	9.90	AV
5470	59.12	4.96	H	64.08	68.20	4.12	PK
5460	53.11	5.00	V	58.11	73.98	15.87	PK
5460	39.32	5.00	V	44.32	53.98	9.66	AV
5470	57.94	4.96	V	62.9	68.20	5.30	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	56.48	5.00	H	61.48	73.98	12.50	PK
5460	42.33	5.00	H	47.33	53.98	6.65	AV
5470	59.72	4.96	H	64.68	68.20	3.52	PK
5460	56.64	5.00	V	61.64	73.98	12.34	PK
5460	42.46	5.00	V	47.46	53.98	6.52	AV
5470	60.37	4.96	V	65.33	68.20	2.87	PK

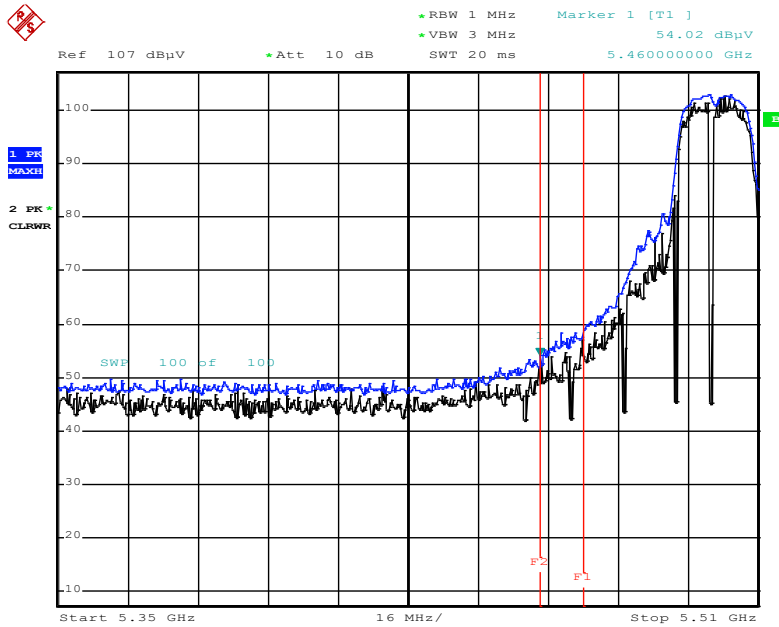
■ Test Plots(UNII 1, 2A, 2C)

**Average Reading (802.11a, Ch.100, Z-V)**



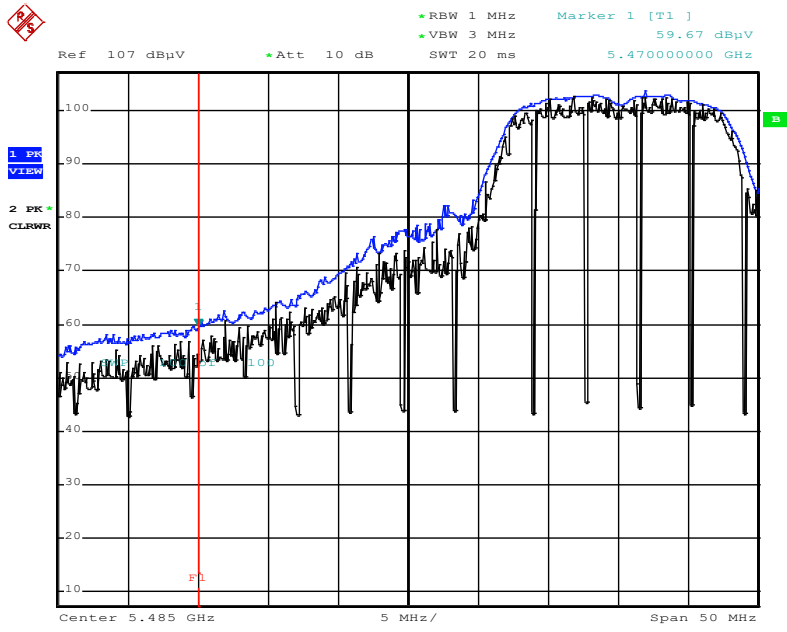
Date: 14.JAN.2019 09:39:04

**Peak Reading (802.11a, Ch.100, Z-V)**



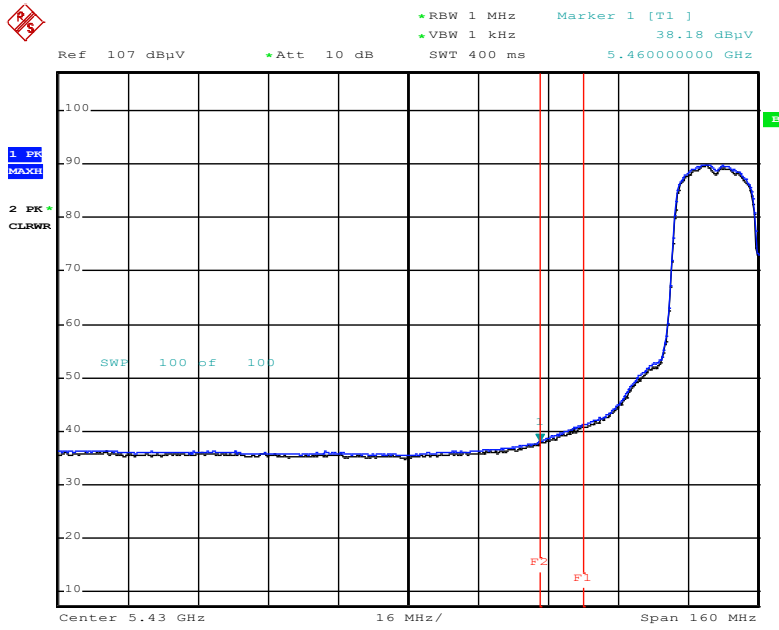
Date: 14.JAN.2019 09:37:55

**Peak Reading (802.11a, Ch.100, Z-V)**



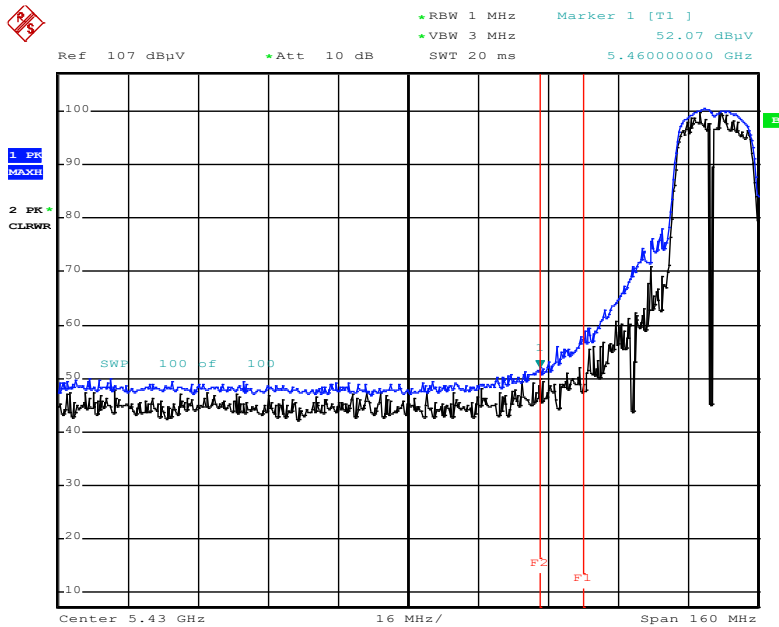
Date: 14.JAN.2019 09:37:02

**Average Reading (802.11n\_HT20, Ch.100, Z-V)**



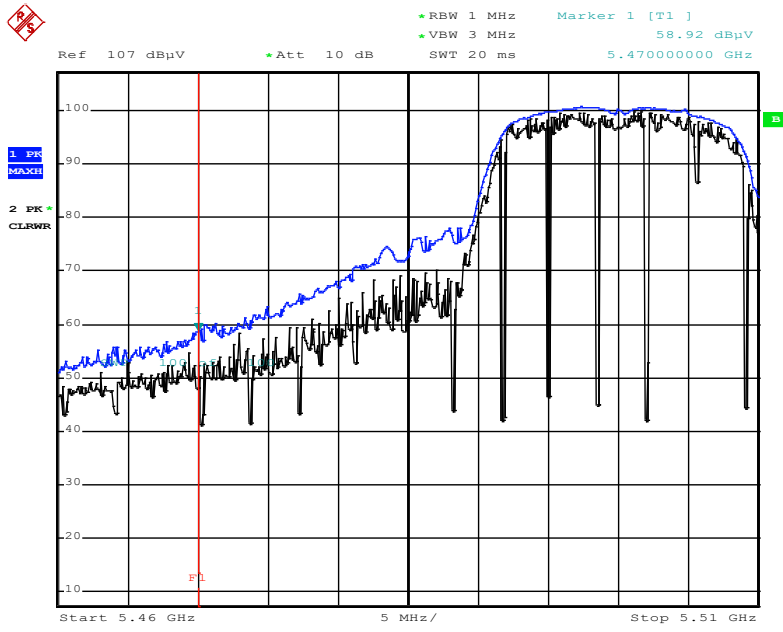
Date: 14.JAN.2019 14:45:43

**Peak Reading (802.11n\_HT20, Ch.100, Z-V)**



Date: 14.JAN.2019 14:44:34

**Peak Reading (802.11n\_HT20, Ch.100, Z-V)**

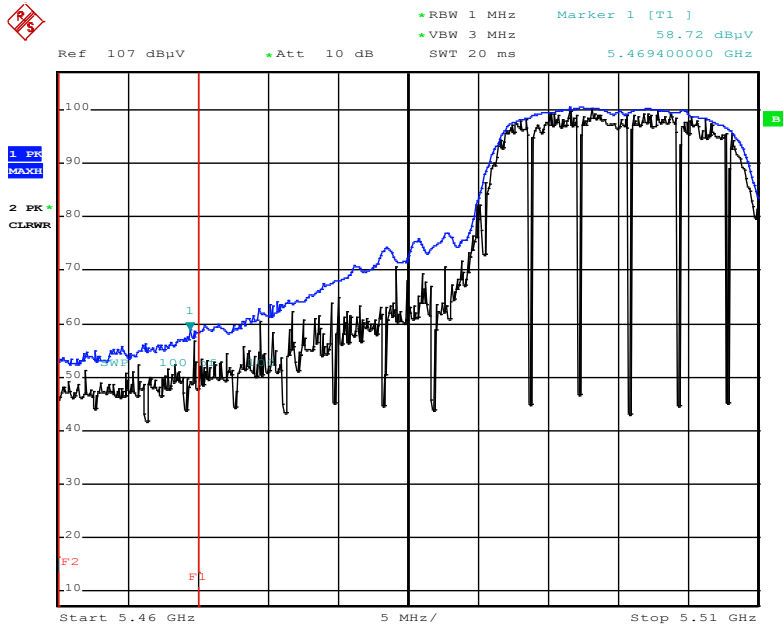


Date: 14.JAN.2019 14:43:18



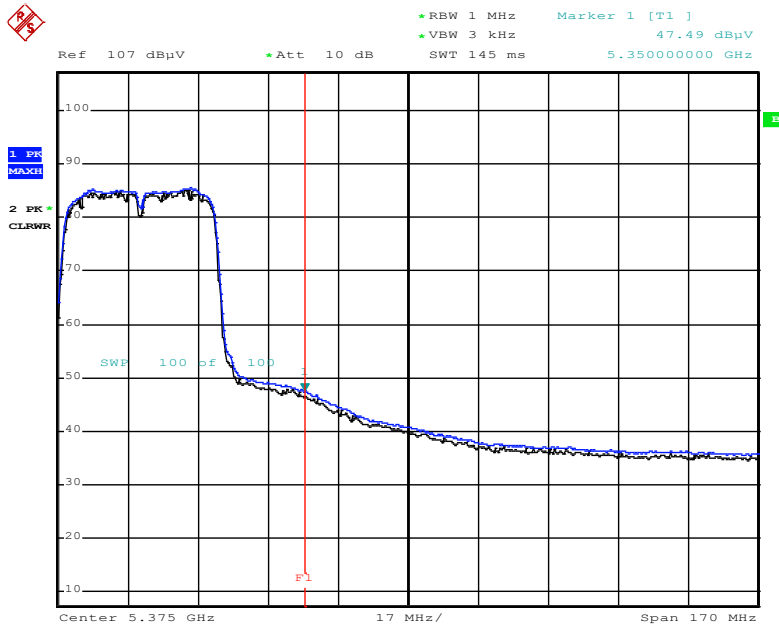


**Peak Reading (802.11ac\_VHT20, Ch.100, Z-V)**



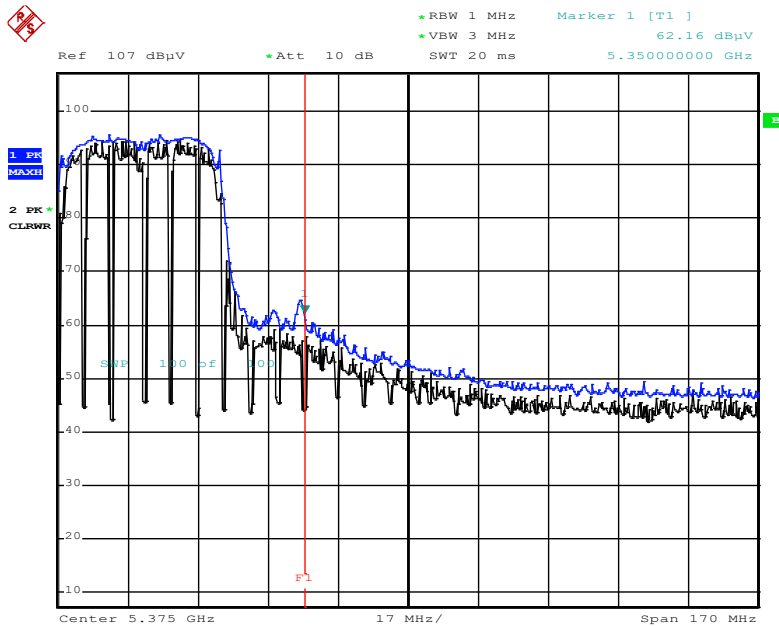
Date: 14.JAN.2019 14:48:46

**Average Reading (802.11n\_HT40, Ch.62, Z-V)**



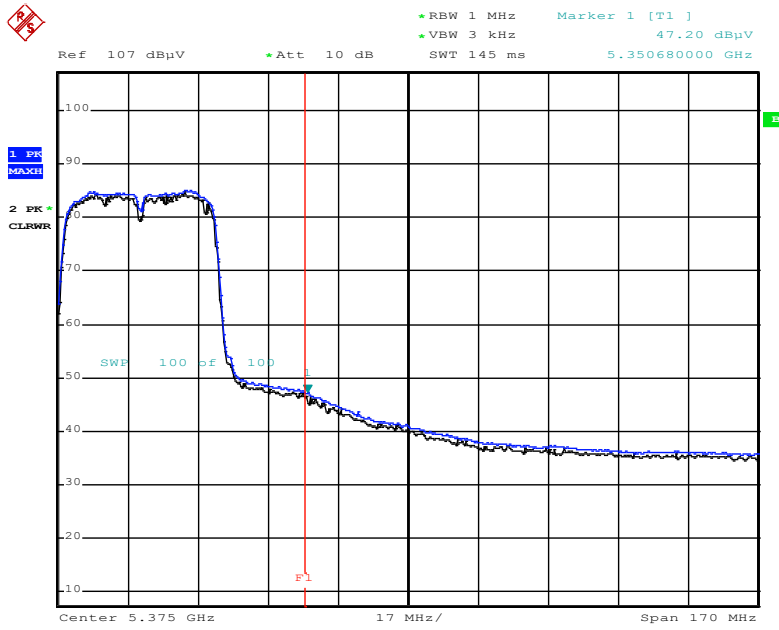
Date: 14.JAN.2019 14:56:52

**Peak Reading (802.11n\_HT40, Ch.62, Z-V)**



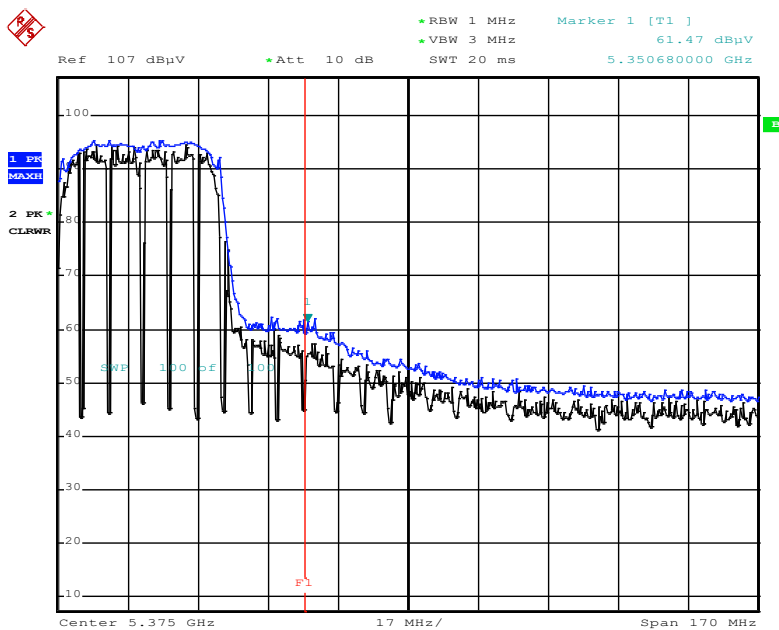
Date: 14.JAN.2019 15:04:08

**Average Reading (802.11ac\_VHT40, Ch.62, Z-V)**



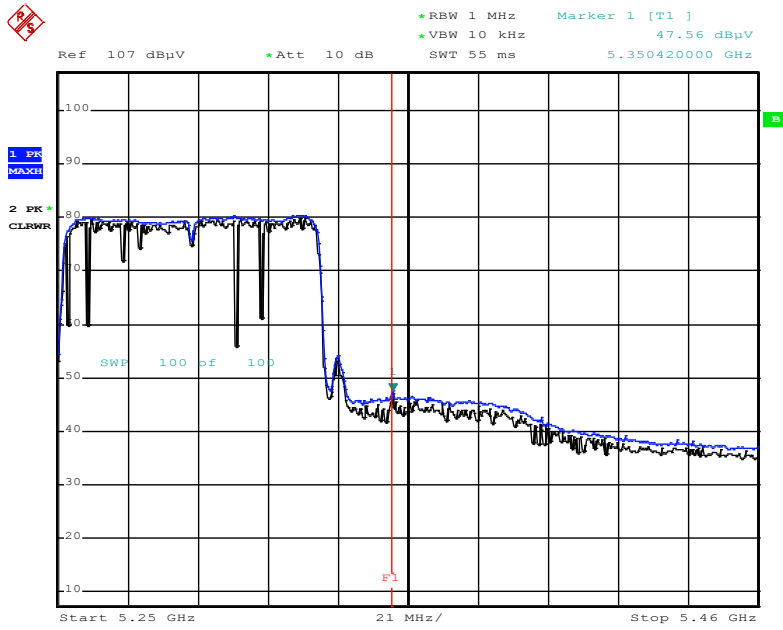
Date: 14.JAN.2019 14:59:57

**Peak Reading (802.11ac\_VHT40, Ch.62, Z-V)**



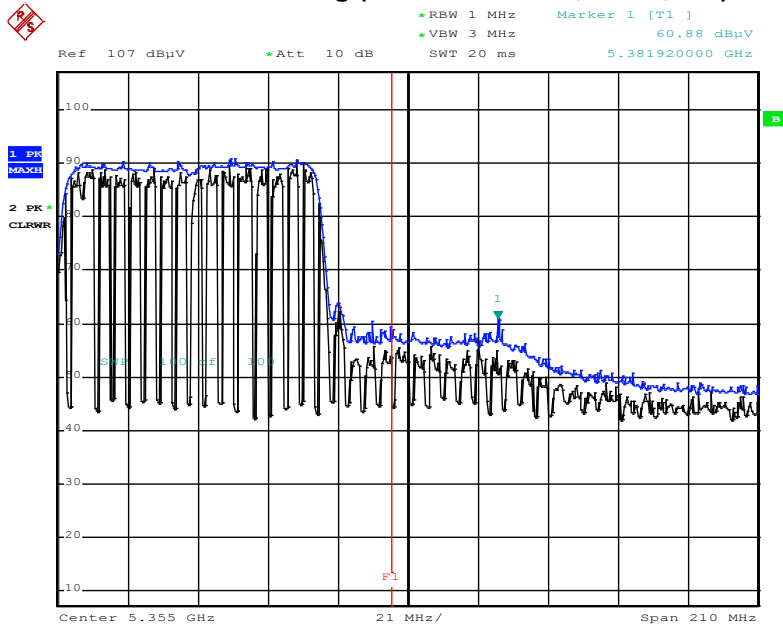
Date: 14.JAN.2019 15:00:55

**Average Reading (802.11ac\_VHT80, Ch.58, Z-V)**



Date: 14.JAN.2019 15:07:09

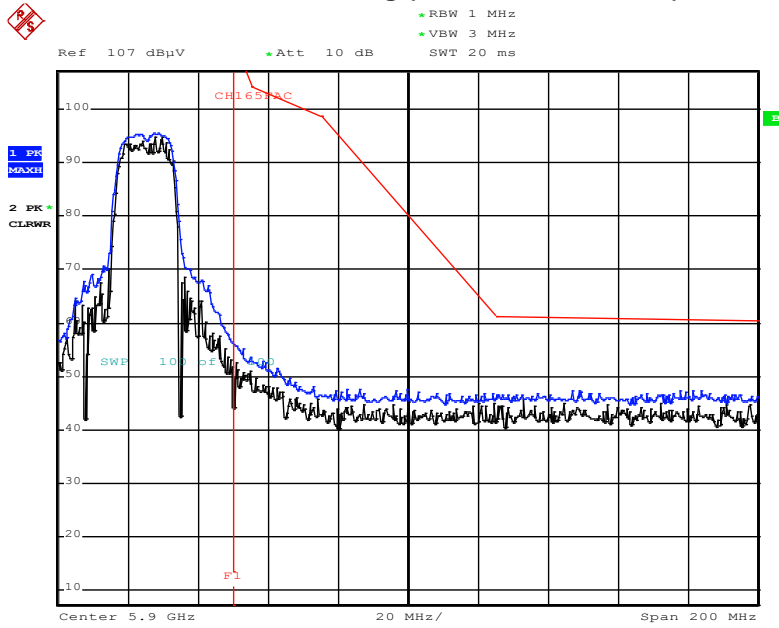
**Peak Reading (802.11ac\_VHT80, Ch.58, Z-V)**



Date: 14.JAN.2019 15:09:21

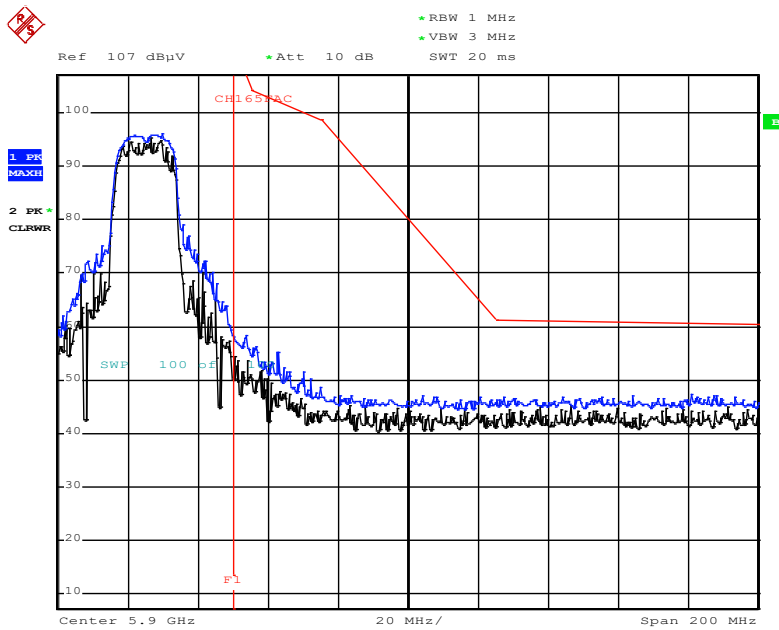
■ Test Plots(UNII 3)

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



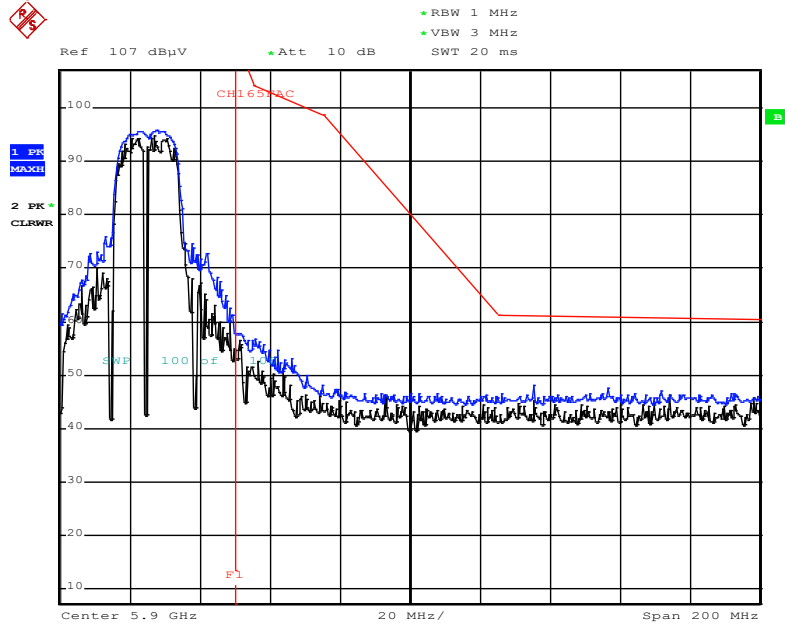
Date: 14.JAN.2019 15:49:24

Peak Reading (802.11n\_HT20, Ch.165, Z-V)



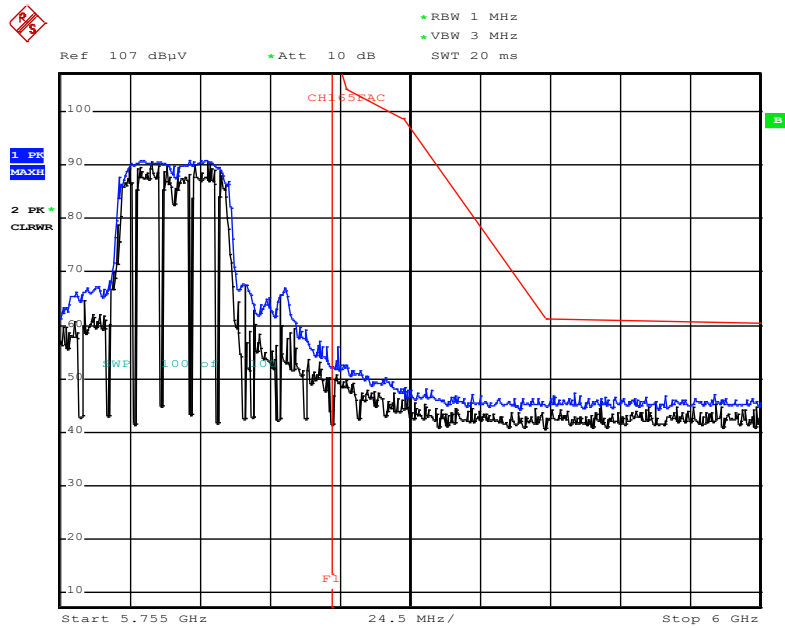
Date: 14.JAN.2019 15:50:08

**Peak Reading (802.11ac\_VHT20, Ch.165, Z-V)**



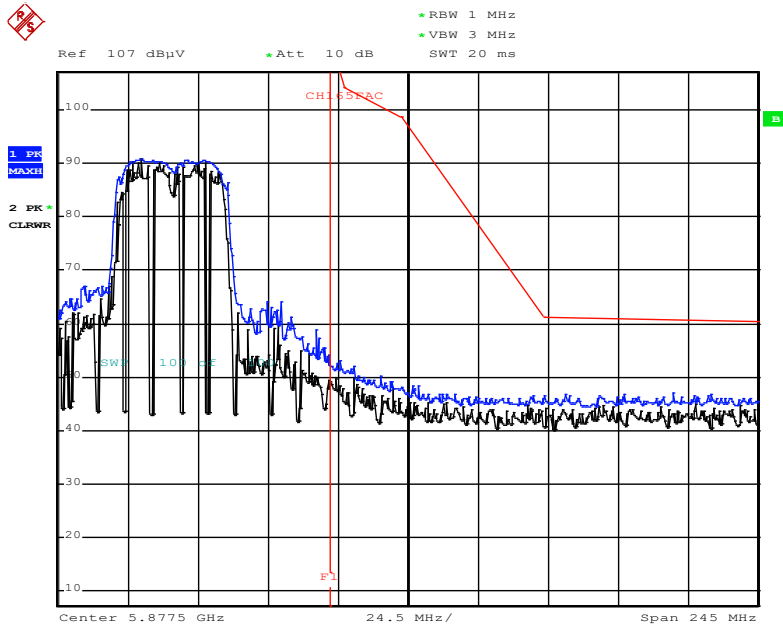
Date: 14.JAN.2019 15:50:54

**Peak Reading (802.11n\_HT40, Ch.159, Z-V)**



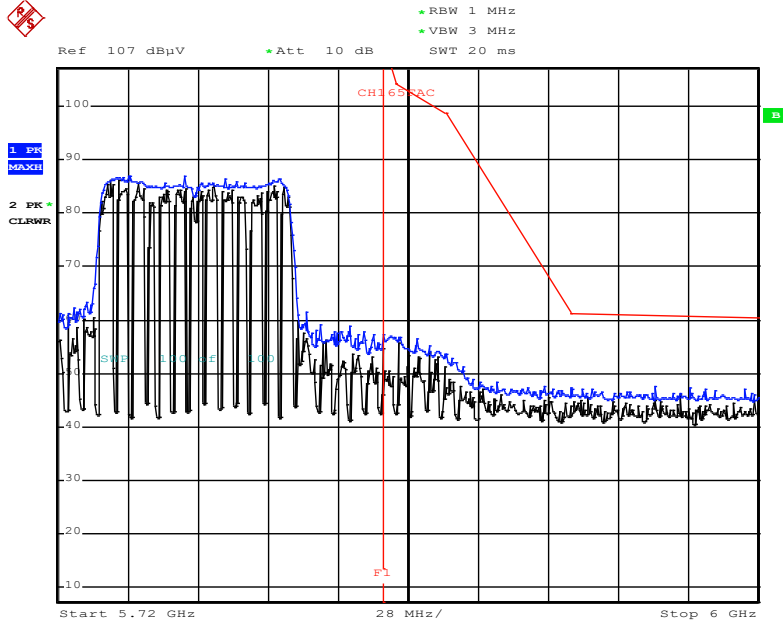
Date: 14.JAN.2019 15:51:37

**Peak Reading (802.11ac\_VHT40, Ch.159, Z-V)**



Date: 14.JAN.2019 15:52:19

**Peak Reading (802.11ac\_VHT80, Ch.155, Z-V)**



Date: 14.JAN.2019 15:53:13



## 10.10 POWERLINE CONDUCTED EMISSIONS

### Conducted Emissions (Line 1)

Test

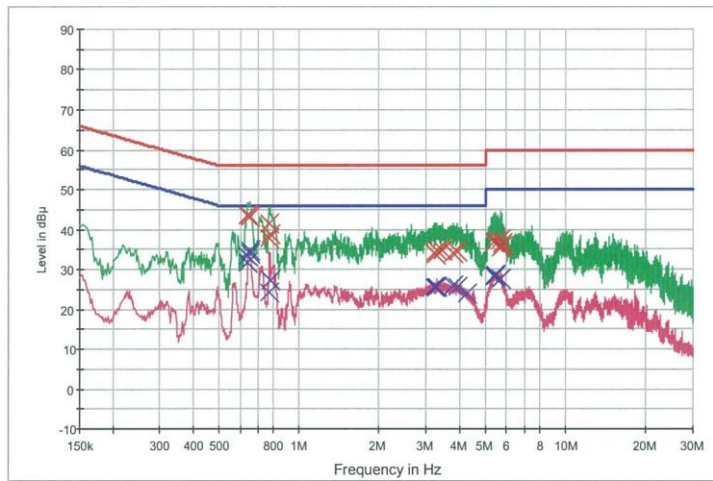
1 / 2

## HCT TEST Report

### Common Information

EUT: SM-M305M/DS  
 Manufacturer: SAMSUNG  
 Test Site: SHIELD ROOM  
 Operating Conditions: 5G WLAN-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 (dBμV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.642000	43.6	9.000	Off	L1	9.8	12.4	56.0
0.650000	43.4	9.000	Off	L1	9.8	12.6	56.0
0.654000	43.1	9.000	Off	L1	9.8	12.9	56.0
0.768000	41.6	9.000	Off	L1	9.8	14.4	56.0
0.774000	37.9	9.000	Off	L1	9.8	18.1	56.0
0.780000	38.9	9.000	Off	L1	9.8	17.1	56.0
3.200000	34.0	9.000	Off	L1	9.9	22.0	56.0
3.232000	33.6	9.000	Off	L1	9.9	22.4	56.0
3.284000	34.6	9.000	Off	L1	9.9	21.4	56.0
3.448000	34.7	9.000	Off	L1	9.9	21.3	56.0
3.786000	34.0	9.000	Off	L1	10.0	22.0	56.0
3.898000	34.3	9.000	Off	L1	10.0	21.7	56.0
5.402000	36.8	9.000	Off	L1	10.0	23.2	60.0
5.470000	37.2	9.000	Off	L1	10.0	22.8	60.0
5.678000	37.5	9.000	Off	L1	10.1	22.5	60.0
5.720000	35.6	9.000	Off	L1	10.1	24.4	60.0
5.734000	36.4	9.000	Off	L1	10.1	23.6	60.0
5.758000	35.8	9.000	Off	L1	10.1	24.2	60.0

2019-01-21

오전 9:23:19

Test

2 / 2

**Final Result 2**

Frequency (MHz)	CAverage (dBuV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.638000	31.5	9.000	Off	L1	9.8	14.5	46.0
0.642000	33.4	9.000	Off	L1	9.8	12.6	46.0
0.652000	34.6	9.000	Off	L1	9.8	11.4	46.0
0.656000	34.2	9.000	Off	L1	9.8	11.8	46.0
0.774000	24.2	9.000	Off	L1	9.8	21.8	46.0
0.778000	27.4	9.000	Off	L1	9.8	18.6	46.0
3.200000	25.5	9.000	Off	L1	9.9	20.5	46.0
3.232000	25.5	9.000	Off	L1	9.9	20.5	46.0
3.284000	25.6	9.000	Off	L1	9.9	20.4	46.0
3.786000	25.8	9.000	Off	L1	10.0	20.2	46.0
3.916000	25.7	9.000	Off	L1	10.0	20.3	46.0
4.264000	23.9	9.000	Off	L1	10.0	22.1	46.0
5.392000	28.2	9.000	Off	L1	10.0	21.8	50.0
5.402000	28.4	9.000	Off	L1	10.0	21.6	50.0
5.454000	28.7	9.000	Off	L1	10.0	21.3	50.0
5.466000	28.4	9.000	Off	L1	10.0	21.6	50.0
5.470000	28.6	9.000	Off	L1	10.0	21.4	50.0
5.678000	27.7	9.000	Off	L1	10.1	22.3	50.0

2019-01-21

오전 9:23:19

**Conducted Emissions (Line 2)**

Test

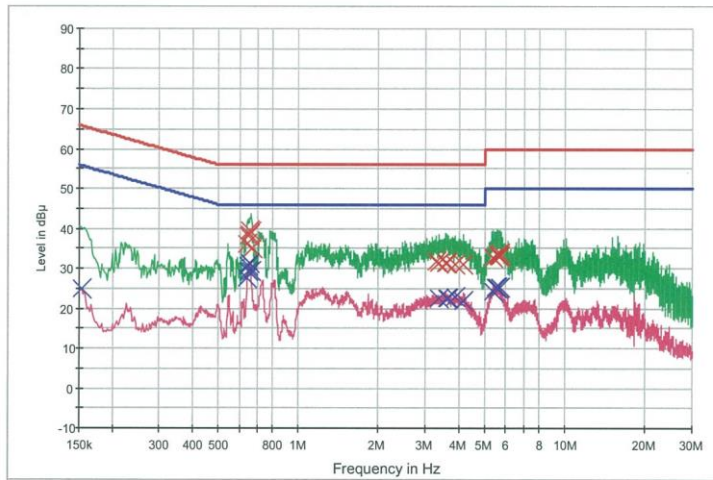
1 / 2

**HCT TEST Report**

**Common Information**

EUT: SM-M305M/DS  
 Manufacturer: SAMSUNG  
 Test Site: SHIELD ROOM  
 Operating Conditions: 5GWLAN-N

FCC CLASS B\_Exten Cable



— FCC CLASS B\_QP      — FCC CLASS B\_AV      — Preview Result 1-PK+  
 — Preview Result 2-AVG      × Final Result 1-QPK      × Final Result 2-CAV

**Final Result 1**

Frequency (MHz)	QuasiPeak (dBuV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.638000	36.0	9.000	Off	N	9.9	20.0	56.0
0.644000	38.1	9.000	Off	N	9.9	17.9	56.0
0.652000	38.6	9.000	Off	N	9.9	17.4	56.0
0.656000	39.3	9.000	Off	N	9.9	16.7	56.0
0.664000	39.2	9.000	Off	N	9.9	16.8	56.0
0.670000	35.0	9.000	Off	N	9.9	21.0	56.0
3.286000	31.8	9.000	Off	N	10.1	24.2	56.0
3.358000	31.3	9.000	Off	N	10.1	24.7	56.0
3.574000	31.5	9.000	Off	N	10.1	24.5	56.0
3.606000	31.3	9.000	Off	N	10.1	24.7	56.0
3.878000	31.1	9.000	Off	N	10.2	24.9	56.0
4.174000	31.0	9.000	Off	N	10.2	25.0	56.0
5.352000	32.7	9.000	Off	N	10.2	27.3	60.0
5.556000	33.4	9.000	Off	N	10.3	26.6	60.0
5.618000	33.1	9.000	Off	N	10.3	26.9	60.0
5.636000	33.3	9.000	Off	N	10.3	26.7	60.0
5.668000	32.9	9.000	Off	N	10.3	27.1	60.0
5.678000	33.6	9.000	Off	N	10.3	26.4	60.0

2019-01-21

오전 9:12:30

Test

2 / 2

**Final Result 2**

Frequency (MHz)	CAverage (dBuV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.154000	24.9	9.000	Off	N	9.8	30.9	55.8
0.640000	27.8	9.000	Off	N	9.9	18.2	46.0
0.644000	29.3	9.000	Off	N	9.9	16.7	46.0
0.650000	30.8	9.000	Off	N	9.9	15.2	46.0
0.654000	31.3	9.000	Off	N	9.9	14.7	46.0
0.662000	29.2	9.000	Off	N	9.9	16.8	46.0
3.358000	22.5	9.000	Off	N	10.1	23.5	46.0
3.606000	22.5	9.000	Off	N	10.1	23.5	46.0
3.640000	22.6	9.000	Off	N	10.1	23.4	46.0
3.648000	22.6	9.000	Off	N	10.1	23.4	46.0
3.878000	23.0	9.000	Off	N	10.2	23.0	46.0
4.158000	21.7	9.000	Off	N	10.2	24.3	46.0
5.346000	24.3	9.000	Off	N	10.2	25.7	50.0
5.352000	24.2	9.000	Off	N	10.2	25.8	50.0
5.528000	25.2	9.000	Off	N	10.3	24.8	50.0
5.556000	25.2	9.000	Off	N	10.3	24.8	50.0
5.618000	24.9	9.000	Off	N	10.3	25.1	50.0
5.668000	25.2	9.000	Off	N	10.3	24.8	50.0

2019-01-21

오전 9:12:30

## 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
ESPACE	SU-642 / Temperature Chamber	03/30/2018	Annual	0093008124
Agilent	N9020A / Signal Analyzer	06/08/2018	Annual	MY51110085
Agilent	N9020A / Signal Analyzer	06/08/2018	Annual	MY52090906
Agilent	N9030A / Signal Analyzer	01/10/2019	Annual	MY49431210
Rohde & Schwarz	OSP 120 / Power Measurement Set	07/26/2018	Annual	101231
Agilent	N1911A / Power Meter	04/16/2018	Annual	MY45100523
Agilent	N1921A / Power Sensor	04/16/2018	Annual	MY52260025
Agilent	87300B / Directional Coupler	11/20/2018	Annual	3116A03621
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
Chang Woo Inc.	18N-20dB / Attenuator(20 dB)	05/09/2018	Annual	8
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	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	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	01/03/2019	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	01/03/2019	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-1901-FC027-P
2	HCT-RF-1901-FC028-P
3	HCT-RF-1901-FC029-P
4	HCT-RF-1901-FC030-P
5	HCT-RF-1901-FC031-P