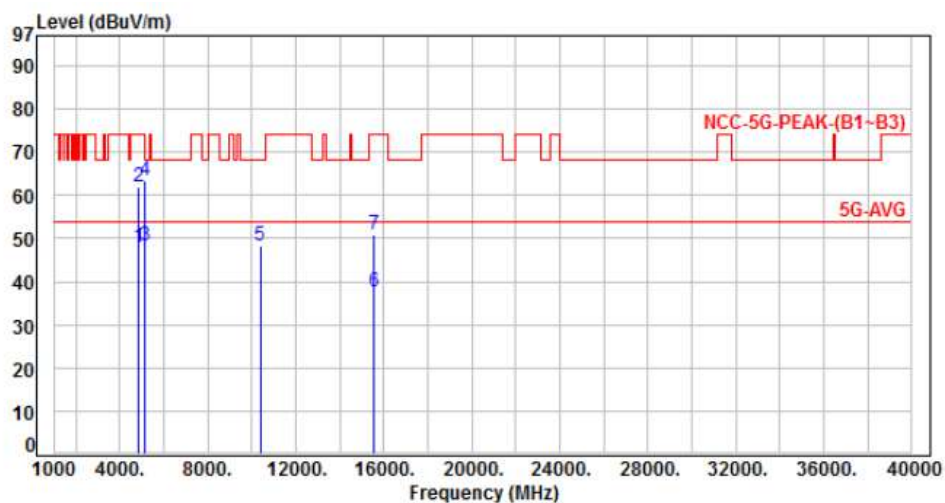




Power	: AC 110V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 3, CH38		



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	4870.00	-8.34	56.38	48.04	54.00	-5.96	Average	367	110	P
2	4870.00	-8.34	70.21	61.87	74.00	-12.13	Peak	367	110	P
3	5150.00	-7.68	56.10	48.42	54.00	-5.58	Average	393	49	P
4	5150.00	-7.68	71.20	63.52	74.00	-10.48	Peak	393	49	P
5	10380.00	-0.10	48.50	48.40	68.20	-19.80	Peak	363	325	P
6	15570.00	5.26	32.20	37.46	54.00	-16.54	Average	100	337	P
7	15570.00	5.26	45.50	50.76	74.00	-23.24	Peak	100	337	P

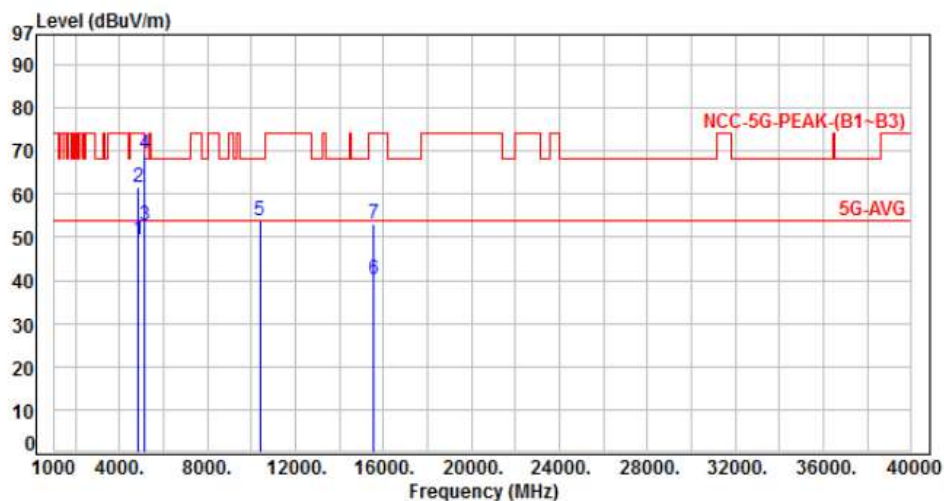
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 110V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 3, CH38		

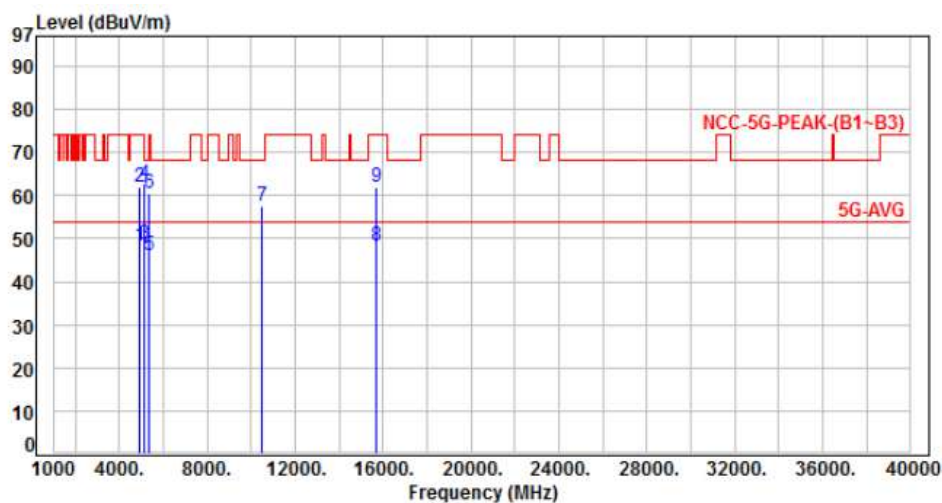


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	4870.00	-8.34	57.81	49.47	54.00	-4.53	Average	103	155	P
2	4870.00	-8.34	70.05	61.71	74.00	-12.29	Peak	103	155	P
3	5150.00	-7.68	60.60	52.92	54.00	-1.08	Average	220	66	P
4	5150.00	-7.68	76.90	69.22	74.00	-4.78	Peak	220	66	P
5	10380.00	-0.10	53.90	53.80	68.20	-14.40	Peak	176	301	P
6	15570.00	5.26	34.80	40.06	54.00	-13.94	Average	308	41	P
7	15570.00	5.26	47.70	52.96	74.00	-21.04	Peak	308	41	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 110V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 3, CH46		



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	4910.00	-8.22	56.66	48.44	54.00	-5.56	Average	391	57	P
2	4910.00	-8.22	70.23	62.01	74.00	-11.99	Peak	391	57	P
3	5150.00	-7.68	56.30	48.62	54.00	-5.38	Average	100	135	P
4	5150.00	-7.68	70.50	62.82	74.00	-11.18	Peak	100	135	P
5	5350.00	-7.30	53.40	46.10	54.00	-7.90	Average	100	135	P
6	5350.00	-7.30	67.80	60.50	74.00	-13.50	Peak	100	135	P
7	10460.00	-0.02	57.51	57.49	68.20	-10.71	Peak	317	344	P
8	15690.00	5.34	42.80	48.14	54.00	-5.86	Average	100	339	P
9	15690.00	5.34	56.50	61.84	74.00	-12.16	Peak	100	339	P

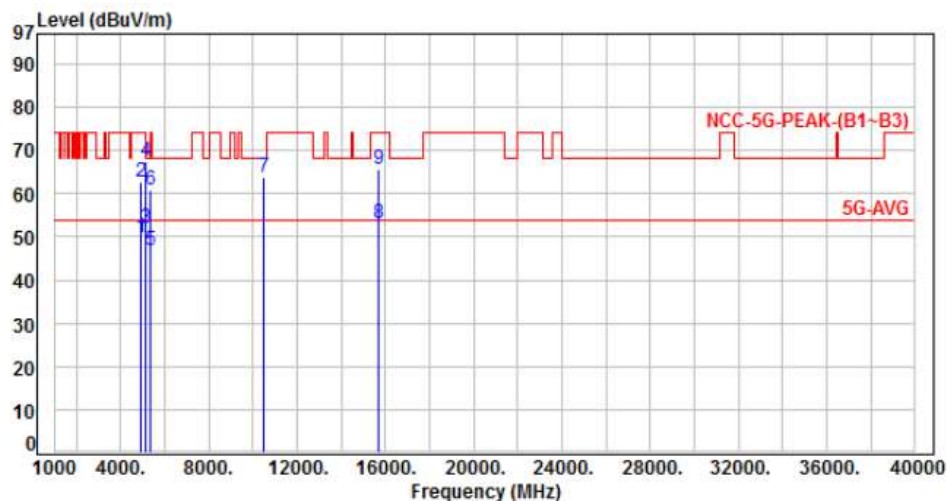
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 110V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 3, CH46		



No.	Frequency (MHz)	Factor (dB)	Reading (dBUV)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	4910.00	-8.22	57.95	49.73	54.00	-4.27	Average	122	165	P
2	4910.00	-8.22	71.02	62.80	74.00	-11.20	Peak	122	165	P
3	5150.00	-7.68	59.70	52.02	54.00	-1.98	Average	294	73	P
4	5150.00	-7.68	75.20	67.52	74.00	-6.48	Peak	294	73	P
5	5350.00	-7.30	54.30	47.00	54.00	-7.00	Average	294	73	P
6	5350.00	-7.30	68.10	60.80	74.00	-13.20	Peak	294	73	P
7	10460.00	-0.02	63.91	63.89	68.20	-4.31	Peak	200	352	P
8	15690.00	5.34	47.60	52.94	54.00	-1.06	Average	292	46	P
9	15690.00	5.34	60.30	65.64	74.00	-8.36	Peak	292	46	P

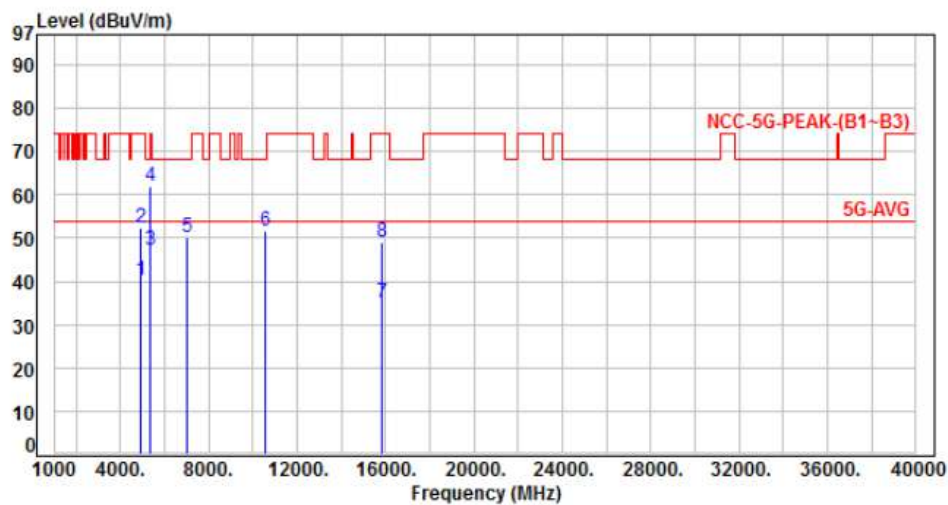
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 110V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 3, CH54		



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	4950.00	-8.10	48.29	40.19	54.00	-13.81	Average	115	327	P
2	4950.00	-8.10	60.52	52.42	74.00	-21.58	Peak	115	327	P
3	5350.00	-7.30	54.45	47.15	54.00	-6.85	Average	332	330	P
4	5350.00	-7.30	69.20	61.90	74.00	-12.10	Peak	332	330	P
5	7026.00	-4.62	54.64	50.02	68.20	-18.18	Peak	352	339	P
6	10540.00	0.07	51.59	51.66	68.20	-16.54	Peak	217	12	P
7	15810.00	5.43	29.66	35.09	54.00	-18.91	Average	100	351	P
8	15810.00	5.43	43.51	48.94	74.00	-25.06	Peak	100	351	P

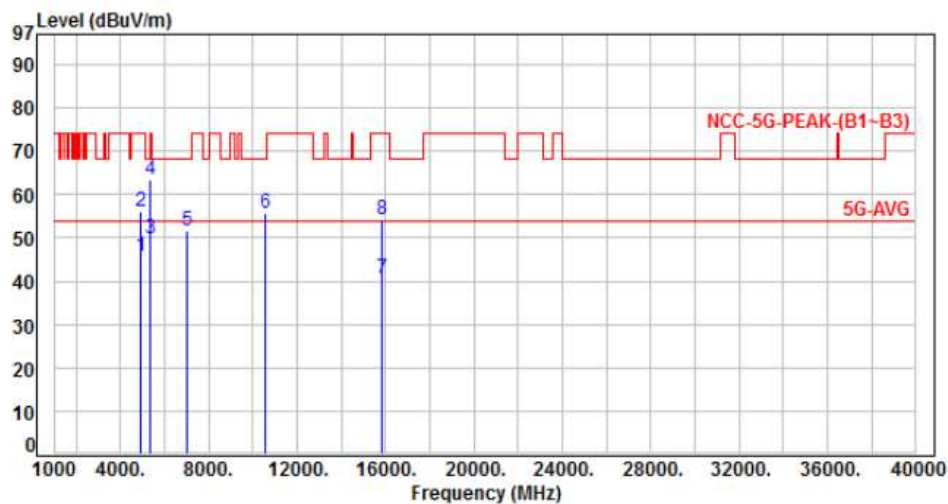
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 110V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 3, CH54		



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	4950.00	-8.10	53.79	45.69	54.00	-8.31	Average	100	110	P
2	4950.00	-8.10	64.20	56.10	74.00	-17.90	Peak	100	110	P
3	5350.00	-7.30	57.23	49.93	54.00	-4.07	Average	230	77	P
4	5350.00	-7.30	70.85	63.55	74.00	-10.45	Peak	230	77	P
5	7026.00	-4.62	56.11	51.49	68.20	-16.71	Peak	245	100	P
6	10540.00	0.07	55.59	55.66	68.20	-12.54	Peak	209	303	P
7	15810.00	5.43	35.23	40.66	54.00	-13.34	Average	191	40	P
8	15810.00	5.43	48.80	54.23	74.00	-19.77	Peak	191	40	P

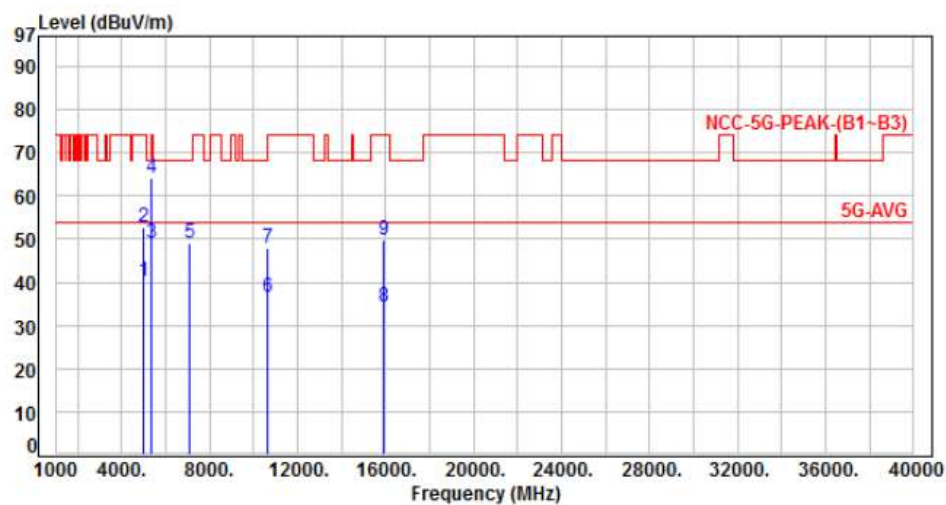
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 110V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 3, CH62		



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	4990.00	-7.99	48.35	40.36	54.00	-13.64	Average	123	301	P
2	4990.00	-7.99	60.71	52.72	74.00	-21.28	Peak	123	301	P
3	5350.00	-7.30	56.40	49.10	54.00	-4.90	Average	201	100	P
4	5350.00	-7.30	71.30	64.00	74.00	-10.00	Peak	201	100	P
5	7080.00	-4.47	53.50	49.03	68.20	-19.17	Peak	327	311	P
6	10620.00	0.13	36.22	36.35	54.00	-17.65	Average	100	334	P
7	10620.00	0.13	47.80	47.93	74.00	-26.07	Peak	100	334	P
8	15930.00	5.51	28.68	34.19	54.00	-19.81	Average	100	342	P
9	15930.00	5.51	44.20	49.71	74.00	-24.29	Peak	100	342	P

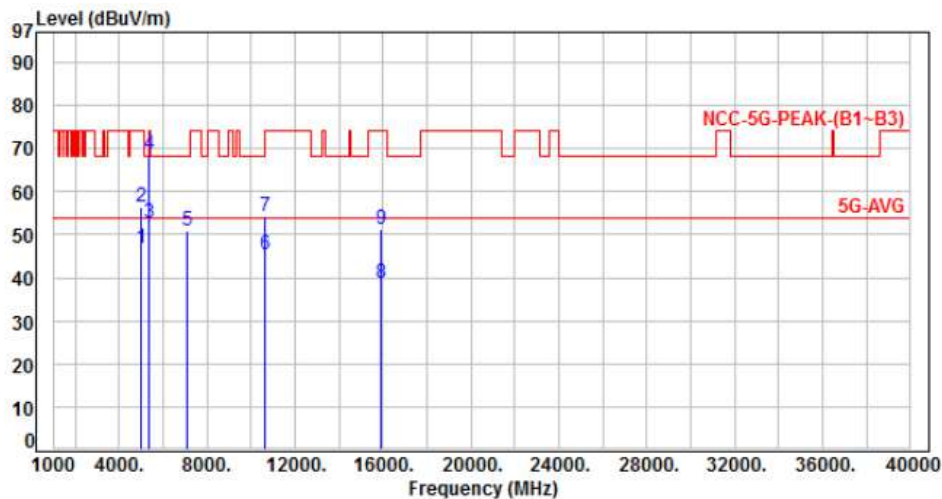
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 110V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 3, CH62		



No.	Frequency (MHz)	Factor (dB)	Reading (dBUV)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	4990.00	-7.99	54.81	46.82	54.00	-7.18	Average	231	80	P
2	4990.00	-7.99	64.50	56.51	74.00	-17.49	Peak	231	80	P
3	5350.00	-7.30	60.13	52.83	54.00	-1.17	Average	220	74	P
4	5350.00	-7.30	75.80	68.50	74.00	-5.50	Peak	220	74	P
5	7080.00	-4.47	55.50	51.03	68.20	-17.17	Peak	250	120	P
6	10620.00	0.13	45.20	45.33	54.00	-8.67	Average	200	307	P
7	10620.00	0.13	53.90	54.03	74.00	-19.97	Peak	200	307	P
8	15930.00	5.51	33.20	38.71	54.00	-15.29	Average	198	42	P
9	15930.00	5.51	45.60	51.11	74.00	-22.89	Peak	198	42	P

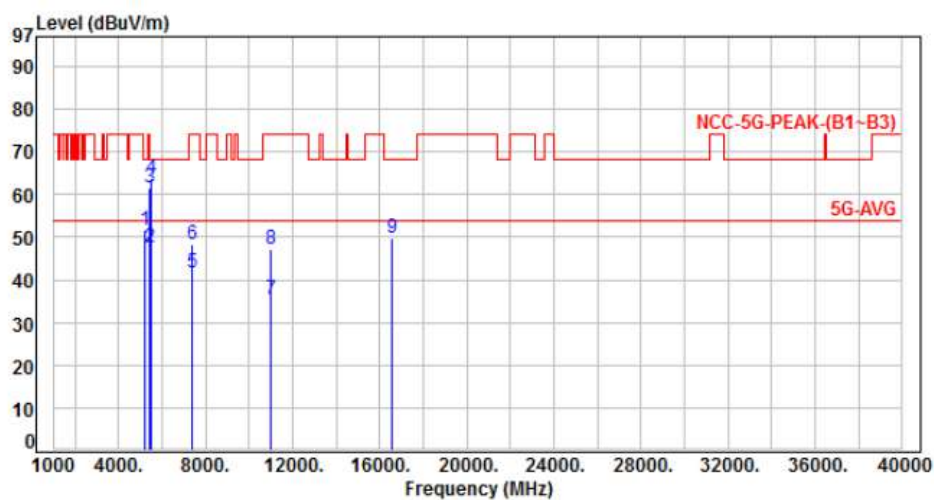
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 110V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 3, CH102		



No.	Frequency (MHz)	Factor (dB)	Reading (dBUV)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5190.00	-7.60	59.21	51.61	68.20	-16.59	Peak	280	333	P
2	5460.00	-7.10	54.80	47.70	54.00	-6.30	Average	100	162	P
3	5460.00	-7.10	68.60	61.50	74.00	-12.50	Peak	100	162	P
4	5470.00	-7.08	70.90	63.82	68.20	-4.38	Peak	100	162	P
5	7347.00	-3.77	45.50	41.73	54.00	-12.27	Average	100	30	P
6	7347.00	-3.77	51.90	48.13	74.00	-25.87	Peak	100	30	P
7	11020.00	0.49	34.90	35.39	54.00	-18.61	Average	211	334	P
8	11020.00	0.49	46.80	47.29	74.00	-26.71	Peak	211	334	P
9	16530.00	7.43	42.32	49.75	68.20	-18.45	Peak	100	126	P

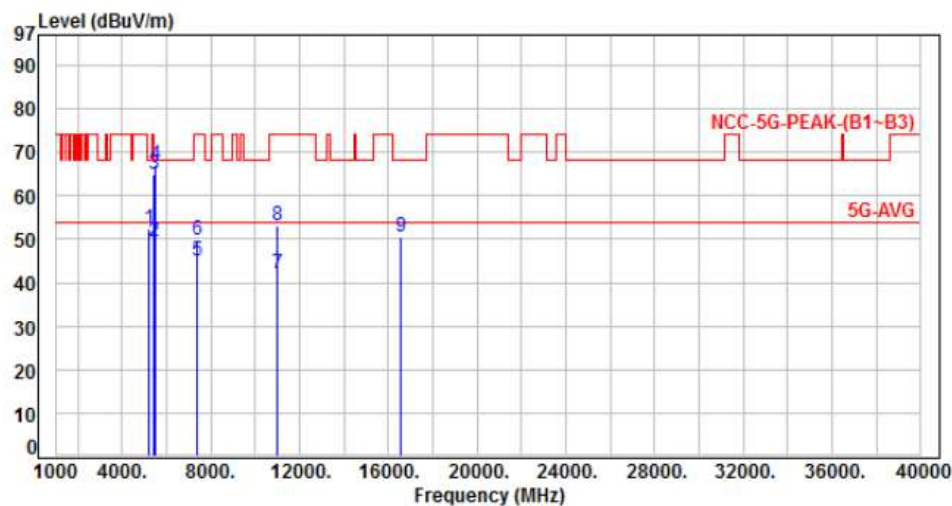
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 110V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 3, CH102		



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5190.00	-7.60	60.10	52.50	68.20	-15.70	Peak	206	72	P
2	5460.00	-7.10	56.50	49.40	54.00	-4.60	Average	100	244	P
3	5460.00	-7.10	72.10	65.00	74.00	-9.00	Peak	100	244	P
4	5470.00	-7.08	74.18	67.10	68.20	-1.10	Peak	100	244	P
5	7347.00	-3.77	48.81	45.04	54.00	-8.96	Average	240	104	P
6	7347.00	-3.77	53.41	49.64	74.00	-24.36	Peak	240	104	P
7	11020.00	0.49	41.56	42.05	54.00	-11.95	Average	220	12	P
8	11020.00	0.49	52.60	53.09	74.00	-20.91	Peak	220	12	P
9	16530.00	7.43	43.21	50.64	68.20	-17.56	Peak	105	332	P

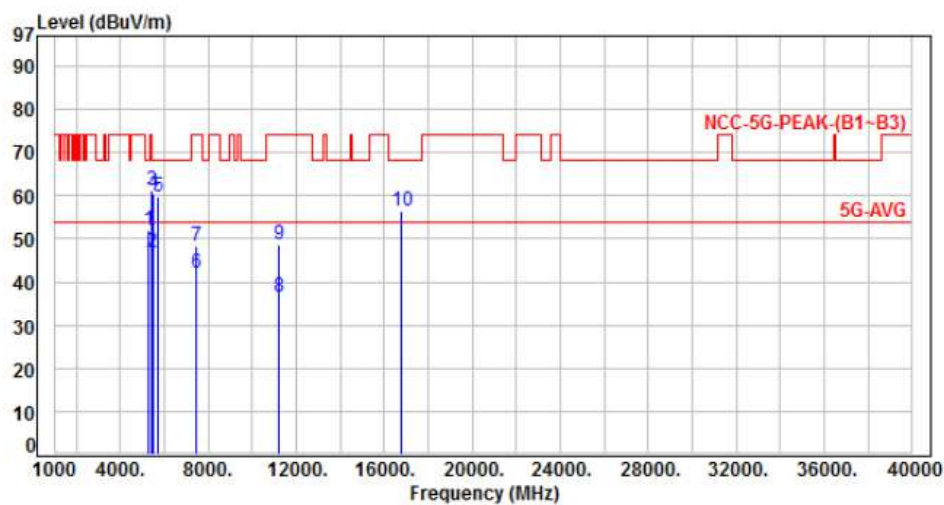
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 110V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 3, CH118		



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5270.00	-7.45	59.58	52.13	68.20	-16.07	Peak	293	308	P
2	5460.00	-7.10	53.80	46.70	54.00	-7.30	Average	333	314	P
3	5460.00	-7.10	68.26	61.16	74.00	-12.84	Peak	333	314	P
4	5470.00	-7.08	67.60	60.52	68.20	-7.68	Peak	333	314	P
5	5725.00	-6.95	66.61	59.66	68.20	-8.54	Peak	333	314	P
6	7451.00	-3.49	45.37	41.88	54.00	-12.12	Average	106	73	P
7	7451.00	-3.49	51.68	48.19	74.00	-25.81	Peak	106	73	P
8	11180.00	0.72	35.81	36.53	54.00	-17.47	Average	220	320	P
9	11180.00	0.72	47.81	48.53	74.00	-25.47	Peak	220	320	P
10	16770.00	8.83	47.59	56.42	68.20	-11.78	Peak	201	330	P

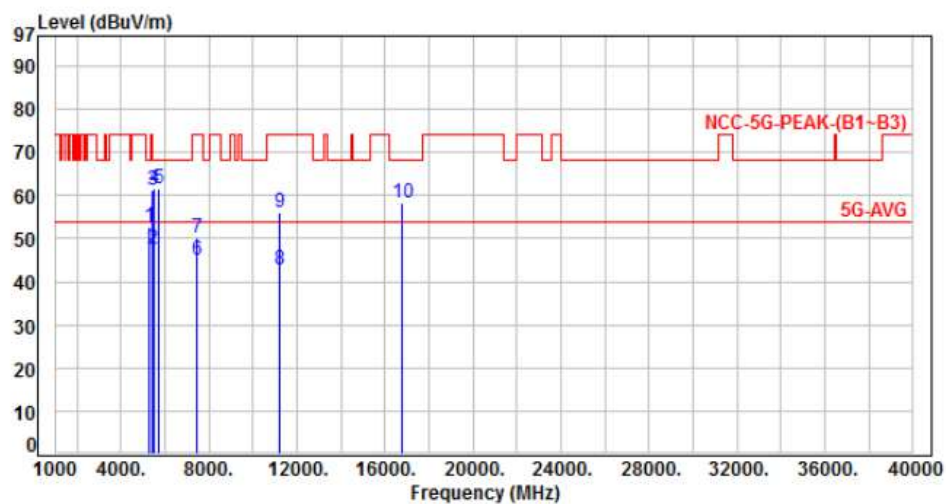
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 110V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 3, CH118		



No.	Frequency (MHz)	Factor (dB)	Reading (dBUV)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5270.00	-7.45	60.22	52.77	68.20	-15.43	Peak	214	93	P
2	5460.00	-7.10	54.78	47.68	54.00	-6.32	Average	230	75	P
3	5460.00	-7.10	68.20	61.10	74.00	-12.90	Peak	230	75	P
4	5470.00	-7.08	68.80	61.72	68.20	-6.48	Peak	230	75	P
5	5725.00	-6.95	68.41	61.46	68.20	-6.74	Peak	230	75	P
6	7451.00	-3.49	48.61	45.12	54.00	-8.88	Average	233	120	P
7	7451.00	-3.49	53.55	50.06	74.00	-23.94	Peak	233	120	P
8	11180.00	0.72	42.12	42.84	54.00	-11.16	Average	228	38	P
9	11180.00	0.72	55.31	56.03	74.00	-17.97	Peak	228	38	P
10	16770.00	8.83	49.29	58.12	68.20	-10.08	Peak	100	329	P

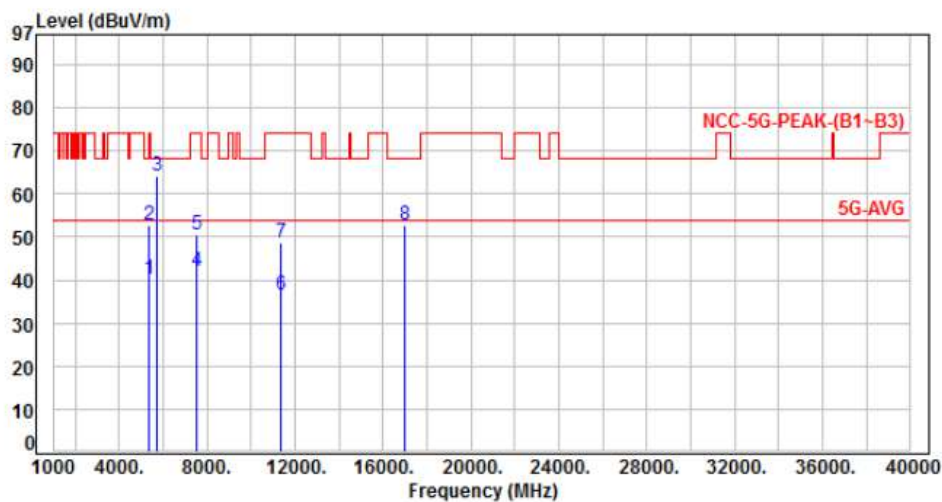
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 110V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 3, CH134		



No.	Frequency (MHz)	Factor (dB)	Reading (dBUV)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5350.00	-7.30	47.42	40.12	54.00	-13.88	Average	342	315	P
2	5350.00	-7.30	59.88	52.58	74.00	-21.42	Peak	342	315	P
3	5725.00	-6.95	71.21	64.26	68.20	-3.94	Peak	285	324	P
4	7558.00	-3.31	45.46	42.15	54.00	-11.85	Average	100	81	P
5	7558.00	-3.31	53.88	50.57	74.00	-23.43	Peak	100	81	P
6	11340.00	0.96	35.40	36.36	54.00	-17.64	Average	229	327	P
7	11340.00	0.96	47.80	48.76	74.00	-25.24	Peak	229	327	P
8	17010.00	10.22	42.50	52.72	68.20	-15.48	Peak	232	30	P

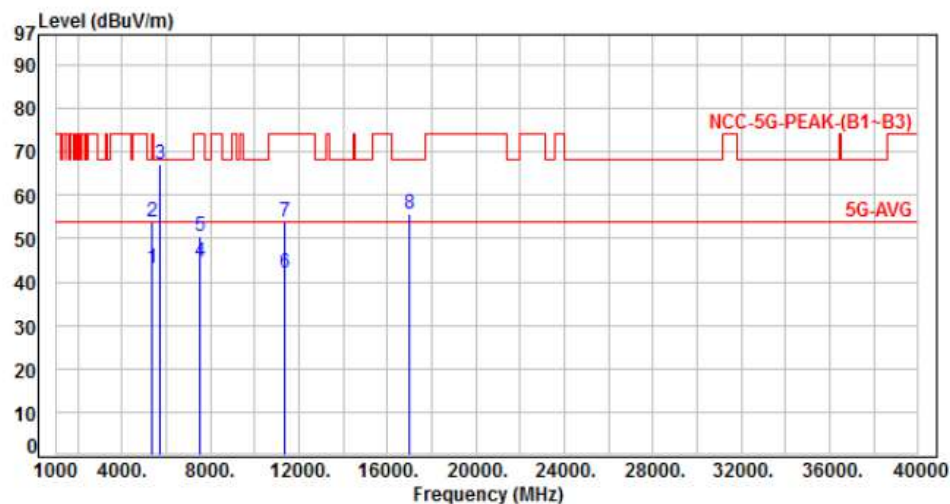
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 110V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 3, CH134		



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5350.00	-7.30	50.34	43.04	54.00	-10.96	Average	212	100	P
2	5350.00	-7.30	61.22	53.92	74.00	-20.08	Peak	212	100	P
3	5725.00	-6.95	74.11	67.16	68.20	-1.04	Peak	233	99	P
4	7558.00	-3.31	48.06	44.75	54.00	-9.25	Average	233	142	P
5	7558.00	-3.31	53.68	50.37	74.00	-23.63	Peak	233	142	P
6	11340.00	0.96	41.20	42.16	54.00	-11.84	Average	235	10	P
7	11340.00	0.96	52.80	53.76	74.00	-20.24	Peak	235	10	P
8	17010.00	10.22	45.49	55.71	68.20	-12.49	Peak	100	331	P

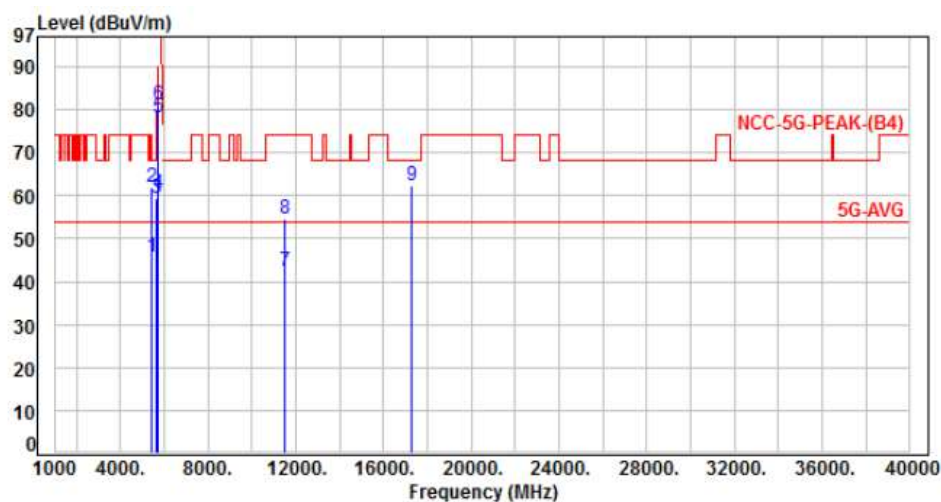
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 110V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 3, CH151		



No.	Frequency (MHz)	Factor (dB)	Reading (dBUV)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5435.00	-7.14	52.90	45.76	54.00	-8.24	Average	112	190	P
2	5435.00	-7.14	69.20	62.06	74.00	-11.94	Peak	112	190	P
3	5650.00	-6.97	66.31	59.34	68.20	-8.86	Peak	305	176	P
4	5700.00	-6.95	67.37	60.42	105.20	-44.78	Peak	305	176	P
5	5720.00	-6.95	85.31	78.36	110.80	-32.44	Peak	305	176	P
6	5725.00	-6.95	88.27	81.32	122.20	-40.88	Peak	305	176	P
7	11510.00	1.22	41.19	42.41	54.00	-11.59	Average	112	10	P
8	11510.00	1.22	53.49	54.71	74.00	-19.29	Peak	112	10	P
9	17265.00	11.84	50.50	62.34	68.20	-5.86	Peak	109	341	P

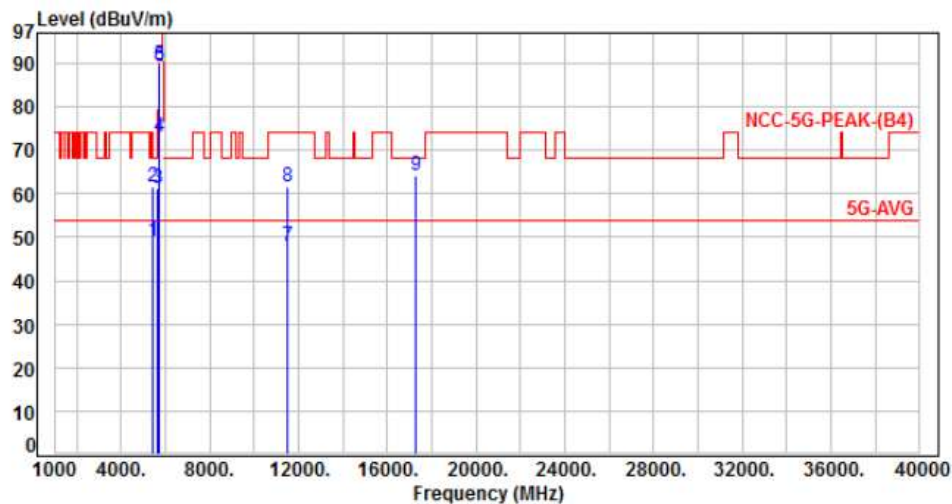
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 110V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 3, CH151		



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5435.00	-7.14	56.20	49.06	54.00	-4.94	Average	200	80	P
2	5435.00	-7.14	68.80	61.66	74.00	-12.34	Peak	200	80	P
3	5650.00	-6.97	68.35	61.38	68.20	-6.82	Peak	309	73	P
4	5700.00	-6.95	80.06	73.11	105.20	-32.09	Peak	309	73	P
5	5720.00	-6.95	96.45	89.50	110.80	-21.30	Peak	309	73	P
6	5725.00	-6.95	96.05	89.10	122.20	-33.10	Peak	309	73	P
7	11510.00	1.22	46.74	47.96	54.00	-6.04	Average	200	9	P
8	11510.00	1.22	60.55	61.77	74.00	-12.23	Peak	200	9	P
9	17265.00	11.84	52.50	64.34	68.20	-3.86	Peak	290	342	P

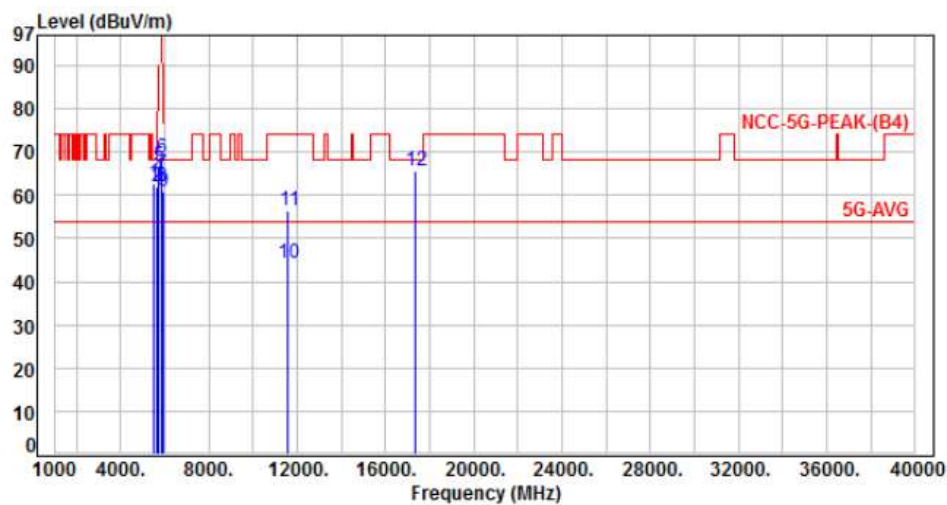
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 110V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 3, CH159		



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5475.00	-7.06	69.65	62.59	68.20	-5.61	Peak	100	200	P
2	5650.00	-6.97	68.90	61.93	68.20	-6.27	Peak	300	188	P
3	5700.00	-6.95	68.80	61.85	105.20	-43.35	Peak	300	188	P
4	5720.00	-6.95	71.30	64.35	110.80	-46.45	Peak	300	188	P
5	5725.00	-6.95	73.71	66.76	122.20	-55.44	Peak	300	188	P
6	5850.00	-6.90	75.60	68.70	122.20	-53.50	Peak	300	188	P
7	5855.00	-6.90	71.90	65.00	110.80	-45.80	Peak	300	188	P
8	5875.00	-6.89	68.80	61.91	105.20	-43.29	Peak	300	188	P
9	5925.00	-6.88	67.80	60.92	68.20	-7.28	Peak	300	188	P
10	11590.00	1.29	43.04	44.33	54.00	-9.67	Average	400	336	P
11	11590.00	1.29	55.09	56.38	74.00	-17.62	Peak	400	336	P
12	17385.00	12.60	52.95	65.55	68.20	-2.65	Peak	203	298	P

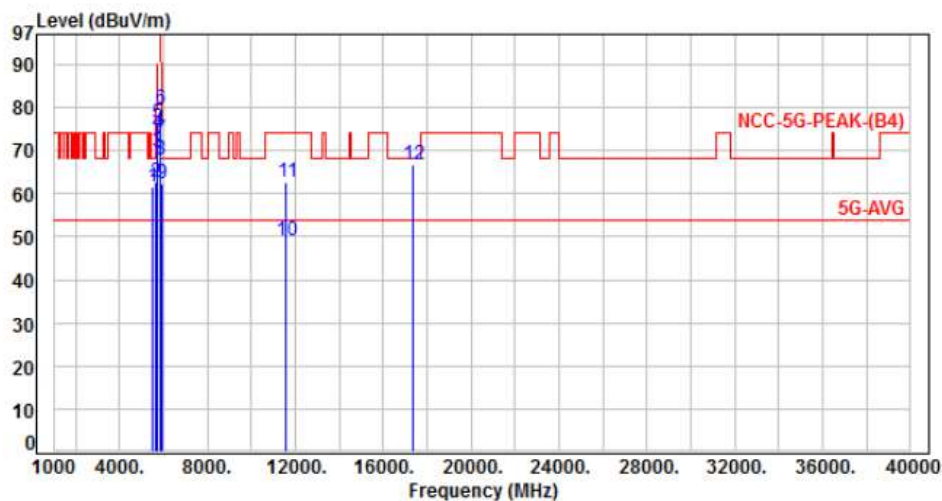
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 110V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 3, CH159		



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5475.00	-7.06	68.59	61.53	68.20	-6.67	Peak	123	246	P
2	5650.00	-6.97	69.60	62.63	68.20	-5.57	Peak	197	78	P
3	5700.00	-6.95	76.50	69.55	105.20	-35.65	Peak	197	78	P
4	5720.00	-6.95	81.20	74.25	110.80	-36.55	Peak	197	78	P
5	5725.00	-6.95	83.21	76.26	122.20	-45.94	Peak	197	78	P
6	5850.00	-6.90	86.50	79.60	122.20	-42.60	Peak	197	78	P
7	5855.00	-6.90	79.60	72.70	110.80	-38.10	Peak	197	78	P
8	5875.00	-6.89	74.80	67.91	105.20	-37.29	Peak	197	78	P
9	5925.00	-6.88	69.20	62.32	68.20	-5.88	Peak	197	78	P
10	11590.00	1.29	47.84	49.13	54.00	-4.87	Average	196	10	P
11	11590.00	1.29	61.37	62.66	74.00	-11.34	Peak	196	10	P
12	17385.00	12.60	54.21	66.81	68.20	-1.39	Peak	298	342	P

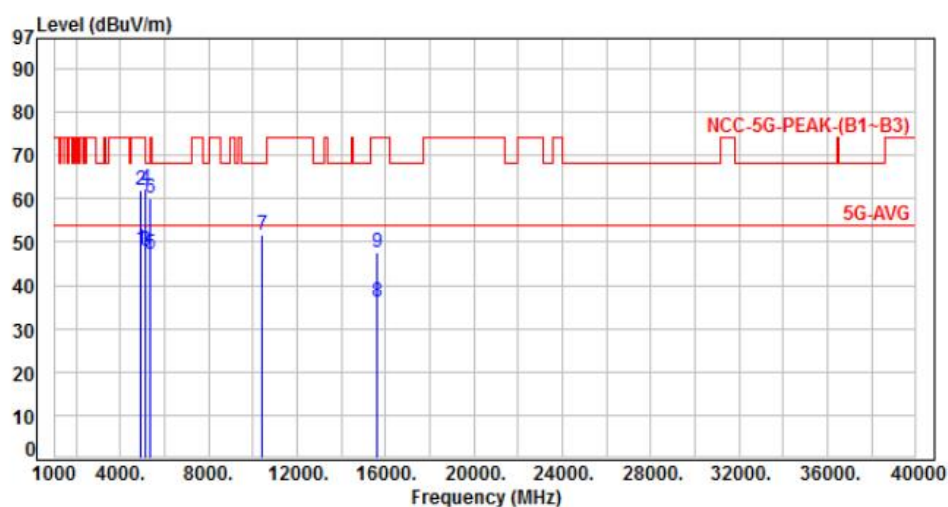
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 110V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 4, CH42		



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	4890.00	-8.28	56.51	48.23	54.00	-5.77	Average	400	0	P
2	4890.00	-8.28	70.23	61.95	74.00	-12.05	Peak	400	0	P
3	5150.00	-7.68	55.60	47.92	54.00	-6.08	Average	112	135	P
4	5150.00	-7.68	70.10	62.42	74.00	-11.58	Peak	112	135	P
5	5350.00	-7.30	54.60	47.30	54.00	-6.70	Average	112	135	P
6	5350.00	-7.30	67.50	60.20	74.00	-13.80	Peak	112	135	P
7	10420.00	-0.05	51.60	51.55	68.20	-16.65	Peak	178	300	P
8	15630.00	5.30	31.00	36.30	54.00	-17.70	Average	322	28	P
9	15630.00	5.30	42.20	47.50	74.00	-26.50	Peak	322	28	P

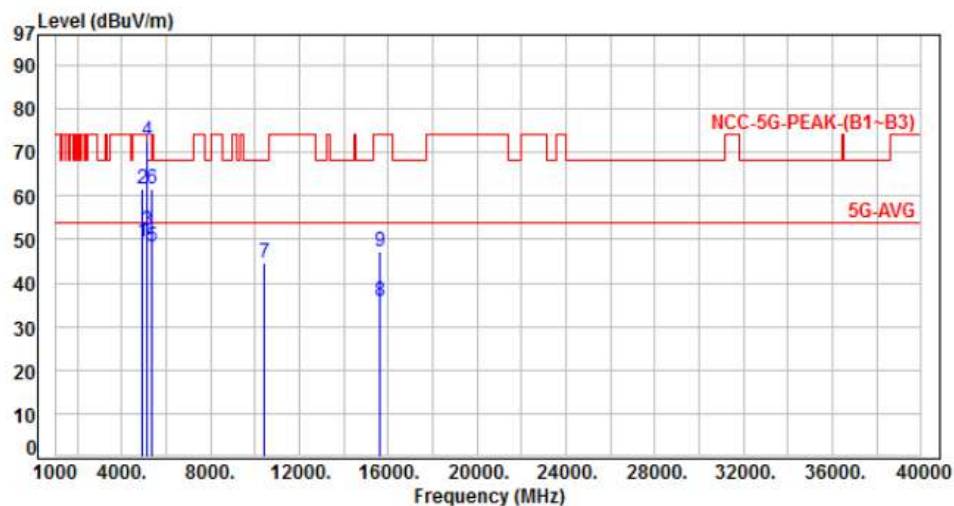
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 110V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 4, CH42		



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	4890.00	-8.28	57.58	49.30	54.00	-4.70	Average	122	165	P
2	4890.00	-8.28	70.02	61.74	74.00	-12.26	Peak	122	165	P
3	5150.00	-7.68	59.80	52.12	54.00	-1.88	Average	182	63	P
4	5150.00	-7.68	80.20	72.52	74.00	-1.48	Peak	182	63	P
5	5350.00	-7.30	55.70	48.40	54.00	-5.60	Average	182	63	P
6	5350.00	-7.30	68.90	61.60	74.00	-12.40	Peak	182	63	P
7	10420.00	-0.05	44.80	44.75	68.20	-23.45	Peak	100	100	P
8	15630.00	5.30	30.55	35.85	54.00	-18.15	Average	100	162	P
9	15630.00	5.30	41.80	47.10	74.00	-26.90	Peak	100	162	P

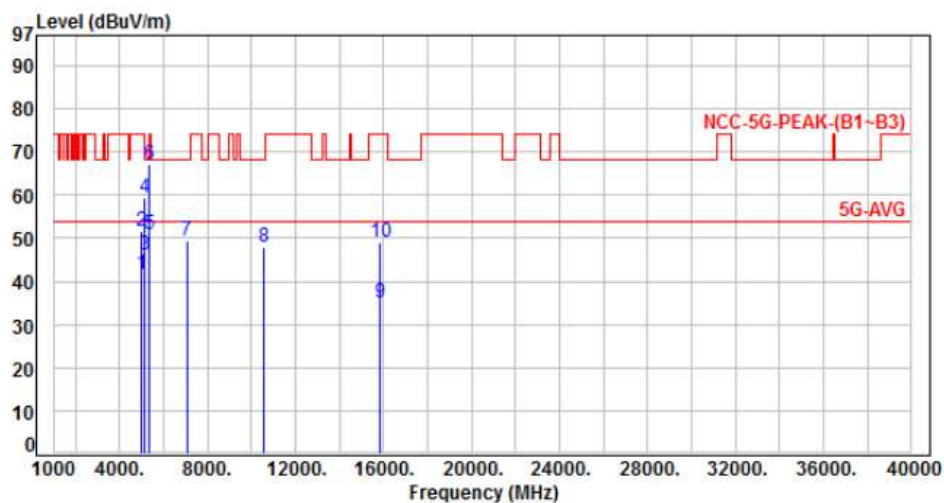
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 110V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 4, CH58		



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	4970.00	-8.05	49.70	41.65	54.00	-12.35	Average	243	335	P
2	4970.00	-8.05	59.80	51.75	74.00	-22.25	Peak	243	335	P
3	5150.00	-7.68	53.80	46.12	54.00	-7.88	Average	400	340	P
4	5150.00	-7.68	67.20	59.52	74.00	-14.48	Peak	400	340	P
5	5350.00	-7.30	58.10	50.80	54.00	-3.20	Average	400	340	P
6	5350.00	-7.30	74.50	67.20	74.00	-6.80	Peak	400	340	P
7	7053.00	-4.54	54.12	49.58	68.20	-18.62	Peak	381	325	P
8	10580.00	0.10	47.80	47.90	68.20	-20.30	Peak	226	303	P
9	15870.00	5.47	29.63	35.10	54.00	-18.90	Average	100	88	P
10	15870.00	5.47	43.51	48.98	74.00	-25.02	Peak	100	88	P

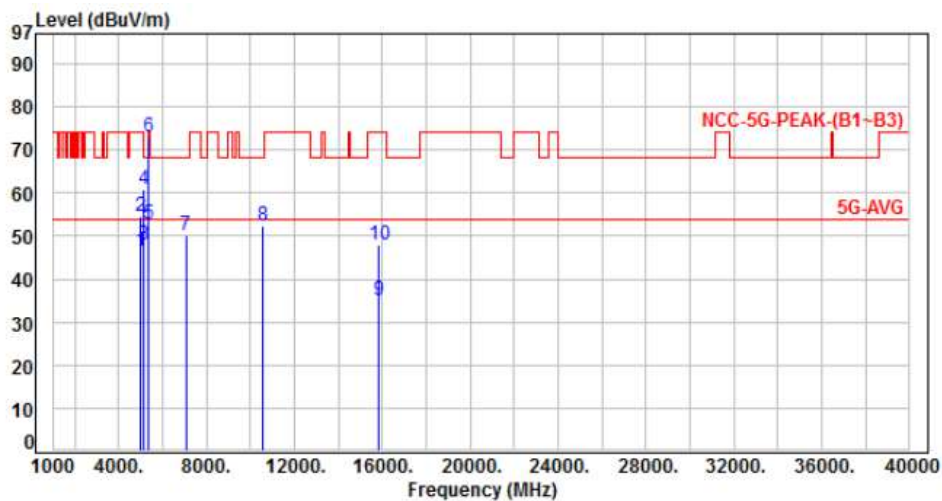
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 110V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 4, CH58		



No.	Frequency (MHz)	Factor (dB)	Reading (dBUV)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	4970.00	-8.05	54.40	46.35	54.00	-7.65	Average	210	81	P
2	4970.00	-8.05	62.50	54.45	74.00	-19.55	Peak	210	81	P
3	5150.00	-7.68	55.50	47.82	54.00	-6.18	Average	212	81	P
4	5150.00	-7.68	68.70	61.02	74.00	-12.98	Peak	212	81	P
5	5350.00	-7.30	60.20	52.90	54.00	-1.10	Average	212	81	P
6	5350.00	-7.30	80.29	72.99	74.00	-1.01	Peak	212	81	P
7	7053.00	-4.54	54.70	50.16	68.20	-18.04	Peak	241	123	P
8	10580.00	0.10	52.10	52.20	68.20	-16.00	Peak	211	313	P
9	15870.00	5.47	29.60	35.07	54.00	-18.93	Average	100	324	P
10	15870.00	5.47	42.66	48.13	74.00	-25.87	Peak	100	324	P

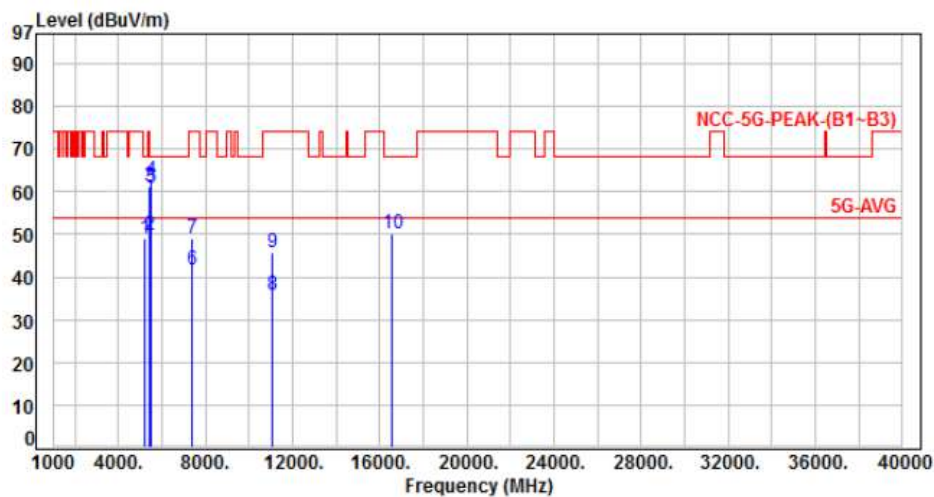
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 110V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 4, CH106		



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5210.00	-7.57	56.60	49.03	68.20	-19.17	Peak	100	328	P
2	5460.00	-7.10	56.90	49.80	54.00	-4.20	Average	100	166	P
3	5460.00	-7.10	68.20	61.10	74.00	-12.90	Peak	100	166	P
4	5465.00	-7.09	69.70	62.61	68.20	-5.59	Peak	100	166	P
5	5470.00	-7.08	67.80	60.72	68.20	-7.48	Peak	100	166	P
6	7373.00	-3.70	45.20	41.50	54.00	-12.50	Average	100	30	P
7	7373.00	-3.70	52.66	48.96	74.00	-25.04	Peak	100	30	P
8	11060.00	0.55	35.33	35.88	54.00	-18.12	Average	145	331	P
9	11060.00	0.55	45.11	45.66	74.00	-28.34	Peak	145	331	P
10	16590.00	7.78	42.51	50.29	68.20	-17.91	Peak	100	112	P

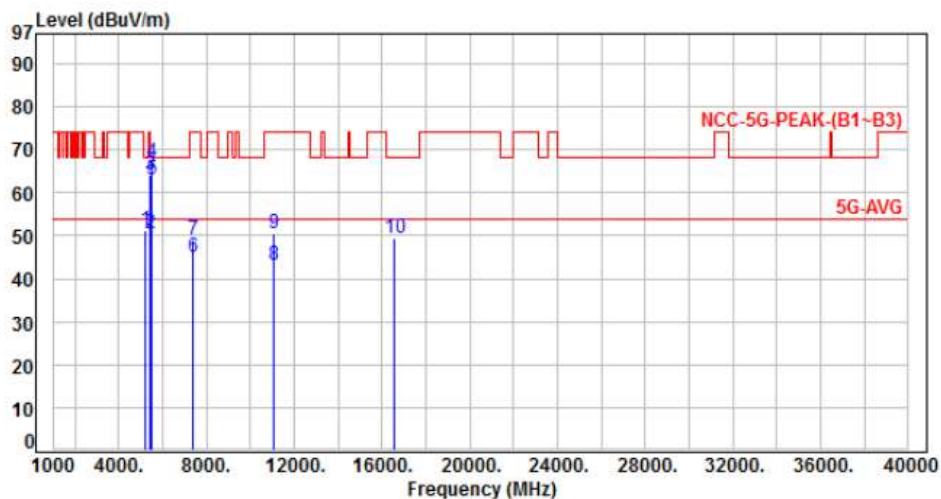
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 110V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 4, CH106		



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5210.00	-7.57	58.80	51.23	68.20	-16.97	Peak	220	78	P
2	5460.00	-7.10	57.70	50.60	54.00	-3.40	Average	100	250	P
3	5460.00	-7.10	71.20	64.10	74.00	-9.90	Peak	100	250	P
4	5465.00	-7.09	74.21	67.12	68.20	-1.08	Peak	100	250	P
5	5470.00	-7.08	70.20	63.12	68.20	-5.08	Peak	100	250	P
6	7373.00	-3.70	48.70	45.00	54.00	-9.00	Average	213	106	P
7	7373.00	-3.70	52.90	49.20	74.00	-24.80	Peak	213	106	P
8	11060.00	0.55	42.70	43.25	54.00	-10.75	Average	220	42	P
9	11060.00	0.55	49.80	50.35	74.00	-23.65	Peak	220	42	P
10	16590.00	7.78	41.55	49.33	68.20	-18.87	Peak	100	327	P

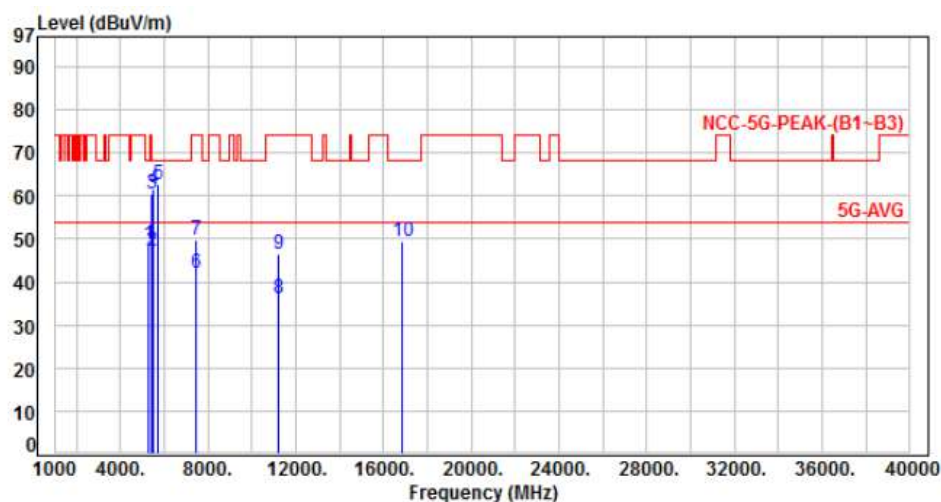
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 110V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 4, CH122		

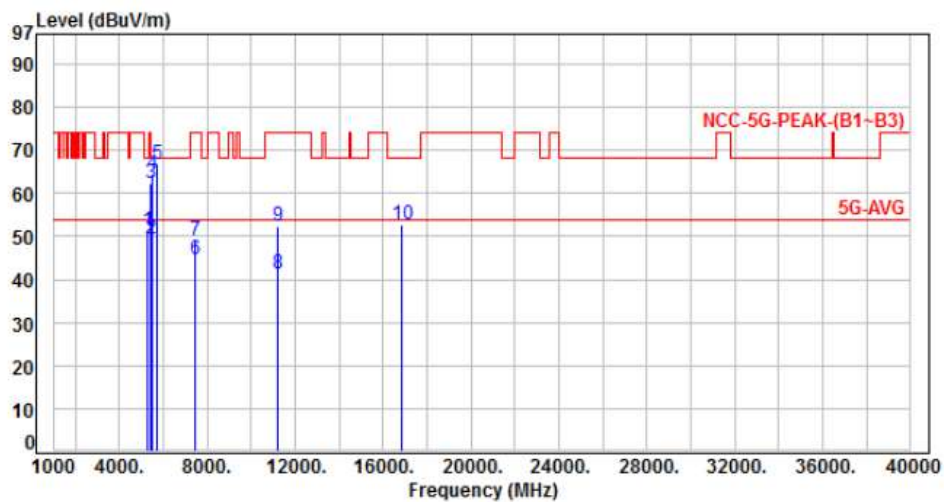


No.	Frequency (MHz)	Factor (dB)	Reading (dBUV)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5290.00	-7.41	56.11	48.70	68.20	-19.50	Peak	100	328	P
2	5460.00	-7.10	54.20	47.10	54.00	-6.90	Average	317	326	P
3	5460.00	-7.10	67.60	60.50	74.00	-13.50	Peak	317	326	P
4	5470.00	-7.08	68.80	61.72	68.20	-6.48	Peak	317	326	P
5	5725.00	-6.95	69.81	62.86	68.20	-5.34	Peak	317	326	P
6	7478.00	-3.42	45.61	42.19	54.00	-11.81	Average	100	50	P
7	7478.00	-3.42	53.24	49.82	74.00	-24.18	Peak	100	50	P
8	11220.00	0.79	35.40	36.19	54.00	-17.81	Average	236	334	P
9	11220.00	0.79	45.70	46.49	74.00	-27.51	Peak	236	334	P
10	16830.00	9.16	40.34	49.50	68.20	-18.70	Peak	100	25	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 110V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 4, CH122		



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5290.00	-7.41	58.66	51.25	68.20	-16.95	Peak	229	107	P
2	5460.00	-7.10	56.50	49.40	54.00	-4.60	Average	231	79	P
3	5460.00	-7.10	69.60	62.50	74.00	-11.50	Peak	231	79	P
4	5470.00	-7.08	71.60	64.52	68.20	-3.68	Peak	231	79	P
5	5725.00	-6.95	73.81	66.86	68.20	-1.34	Peak	231	79	P
6	7478.00	-3.42	48.06	44.64	54.00	-9.36	Average	211	105	P
7	7478.00	-3.42	52.64	49.22	74.00	-24.78	Peak	211	105	P
8	11220.00	0.79	40.60	41.39	54.00	-12.61	Average	214	15	P
9	11220.00	0.79	51.50	52.29	74.00	-21.71	Peak	214	15	P
10	16830.00	9.16	43.51	52.67	68.20	-15.53	Peak	100	330	P

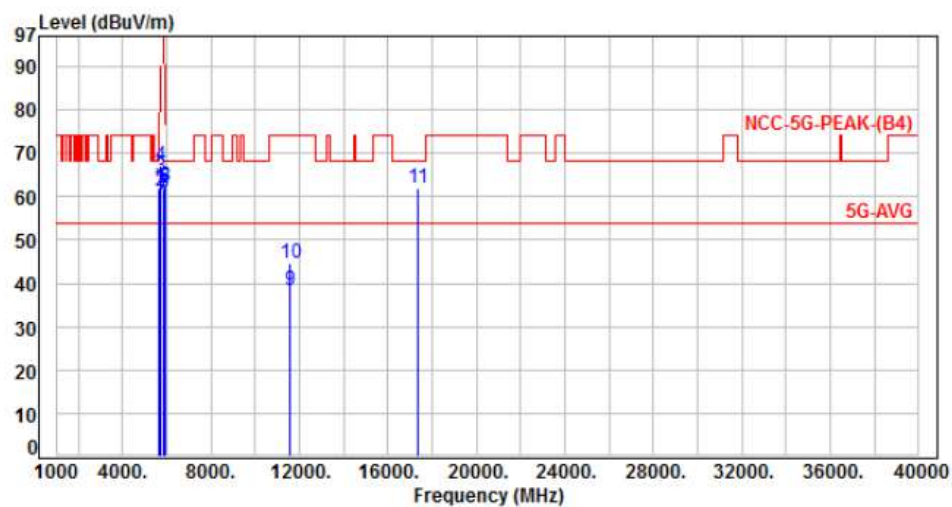
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 110V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 4, CH155		



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	-6.97	68.80	61.83	68.20	-6.37	Peak	400	163	P
2	5700.00	-6.95	68.05	61.10	105.20	-44.10	Peak	400	163	P
3	5720.00	-6.95	71.55	64.60	110.80	-46.20	Peak	400	163	P
4	5725.00	-6.95	74.26	67.31	122.20	-54.89	Peak	400	163	P
5	5850.00	-6.90	68.73	61.83	122.20	-60.37	Peak	400	163	P
6	5855.00	-6.90	67.63	60.73	110.80	-50.07	Peak	400	163	P
7	5875.00	-6.89	67.45	60.56	105.20	-44.64	Peak	400	163	P
8	5925.00	-6.88	69.33	62.45	68.20	-5.75	Peak	400	163	P
9	11550.00	1.26	37.14	38.40	54.00	-15.60	Average	200	42	P
10	11550.00	1.26	43.53	44.79	74.00	-29.21	Peak	200	42	P
11	17325.00	12.22	49.88	62.10	68.20	-6.10	Peak	300	166	P

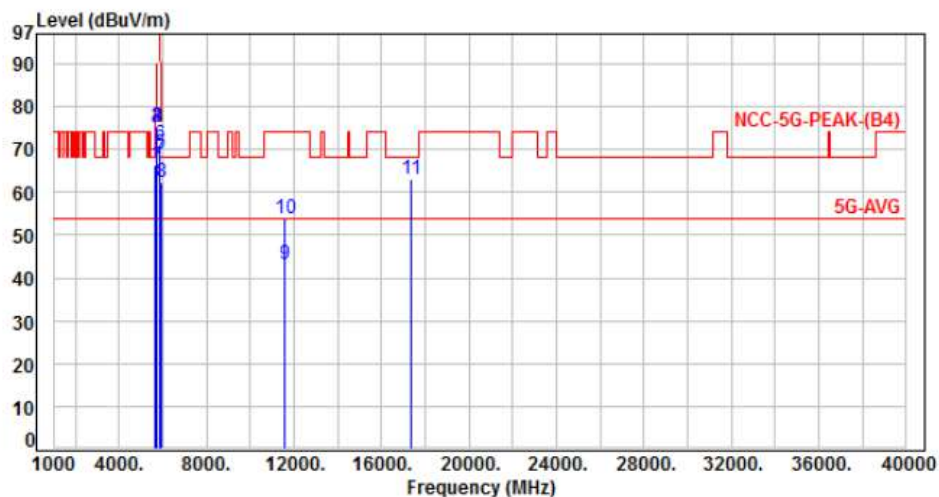
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 110V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 4, CH155		



No.	Frequency (MHz)	Factor (dB)	Reading (dBUV)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	-6.97	73.32	66.35	68.20	-1.85	Peak	206	51	P
2	5700.00	-6.95	82.10	75.15	105.20	-30.05	Peak	206	51	P
3	5720.00	-6.95	82.08	75.13	110.80	-35.67	Peak	206	51	P
4	5725.00	-6.95	82.11	75.16	122.20	-47.04	Peak	206	51	P
5	5850.00	-6.90	75.82	68.92	122.20	-53.28	Peak	206	51	P
6	5855.00	-6.90	78.15	71.25	110.80	-39.55	Peak	206	51	P
7	5875.00	-6.89	74.64	67.75	105.20	-37.45	Peak	206	51	P
8	5925.00	-6.88	69.04	62.16	68.20	-6.04	Peak	206	51	P
9	11550.00	1.26	41.98	43.24	54.00	-10.76	Average	200	293	P
10	11550.00	1.26	52.74	54.00	74.00	-20.00	Peak	200	293	P
11	17325.00	12.22	50.73	62.95	68.20	-5.25	Peak	300	186	P

Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



6. On Time, Duty Cycle and Measurement methods

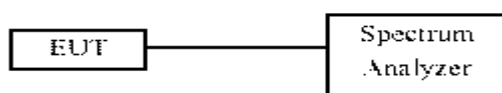
6.1. 適用標準

None; for reporting purposes only.

6.2. 測試方法

KDB 789033 Zero-Span Spectrum Analyzer Method.

6.3. 測試配置



6.4. 測試結果及數據

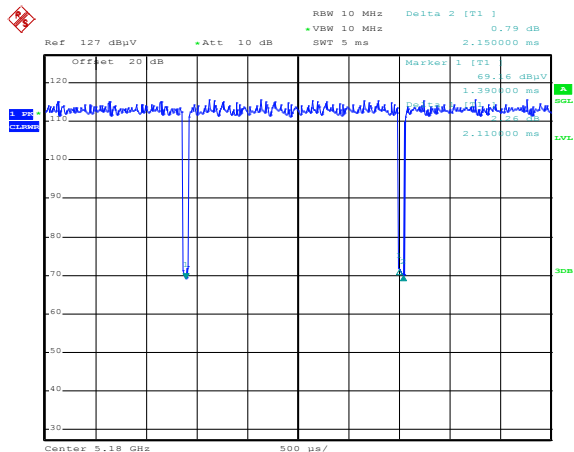
Modulation Mode	On Time (msec)	Period Time (msec)	Duty Cycle (%)
802.11a	2.11	2.15	98.14%
802.11ac VHT20	5.06	5.08	99.61%
802.11ac VHT40	2.47	2.51	98.41%
802.11ac VHT80	1.18	1.22	96.72%

6.5. Measurement Methods

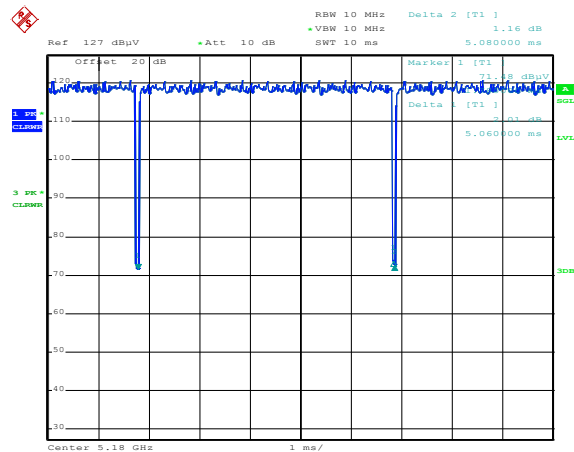
26 dB and 6dB Emission BW	KDB 789033 D02 v02r01, Section C
99% Occupied BW	KDB 789033 D02 v02r01, Section D
Conducted Output Power	KDB 789033 D02 v02r01, Section E.2.d and E.3.b (Method PM-G)
Power Spectral Density	KDB 789033 D02 v02r01, Section F
Unwanted emissions in restricted bands	KDB 789033 D02 v02r01, Sections G and H



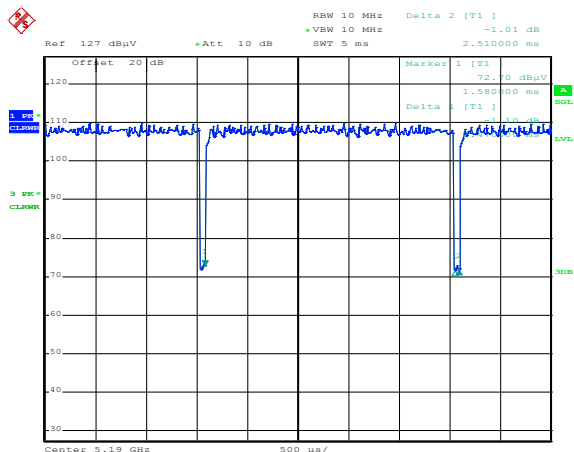
Modulation Mode: 802.11a (6Mbps)



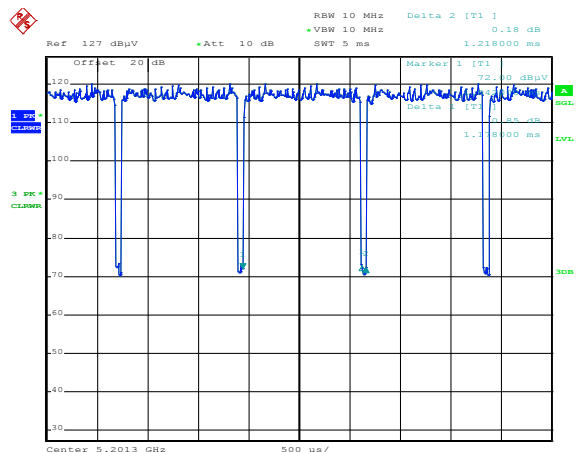
Modulation Mode: 802.11ac VHT20 (6.5Mbps)



Modulation Mode: 802.11ac VHT40 (13.5Mbps)



Modulation Mode: 802.11ac VHT80 (29.3Mbps)





7. 6dB & 99% Occupied 頻寬之規定

7.1. 適用標準

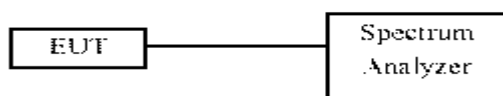
FCC §15.407

The minimum 6 dB bandwidth shall be at least 500 kHz.

7.2. 測試方法

Reference to 789033 D02 General UNII Test Procedures New Rules v01: The transmitter output is connected to a spectrum analyzer with the RBW set to 100KHz, the VBW $\geq 3 \times$ RBW, peak detector and max hold.

7.3. 測試配置





7.4. 測試結果及數據(6dB Bandwidth)

In the 5.8GHz Band

Modulation Mode	Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)
			ANT A	ANT B	
802.11a	149	5745	16.30	16.30	0.50
	157	5785	16.30	16.30	0.50
	165	5825	16.30	16.30	0.50
802.11ac VHT20	149	5745	17.00	17.20	0.50
	157	5785	16.80	17.60	0.50
	165	5825	17.20	16.50	0.50
802.11ac VHT40	155	5755	35.20	35.20	0.50
	159	5795	35.20	35.20	0.50
802.11ac VHT80	155	5775	75.20	75.20	0.50

備註：繪圖資料請參考下頁。

7.5. 測試結果及數據(99% Occupied Bandwidth)

In the 5.8GHz Band

Modulation Mode	Channel	Frequency (MHz)	99% Bandwidth (MHz)	
			ANT A	ANT B
802.11a	149	5745	16.60	16.60
	157	5785	16.60	16.60
	165	5825	16.60	16.60
802.11ac VHT20	149	5745	17.70	17.70
	157	5785	17.70	17.70
	165	5825	17.70	17.70
802.11ac VHT40	155	5755	36.40	36.40
	159	5795	36.40	36.40
802.11ac VHT80	155	5775	75.84	75.84

備註：繪圖資料請參考下頁。

7.6. 結果判定

高、中、低頻段的 6dB 頻寬皆大於 500 KHz，合乎標準規定。

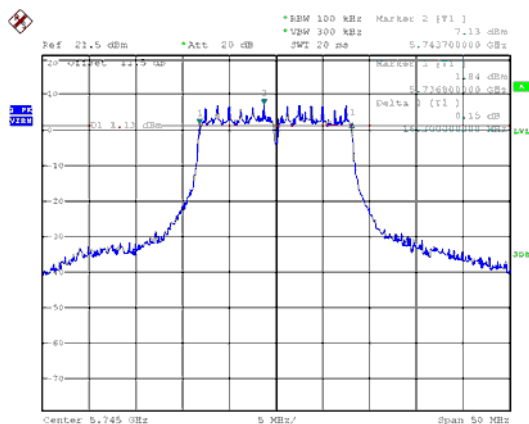


6dB Bandwidth

Antenna A

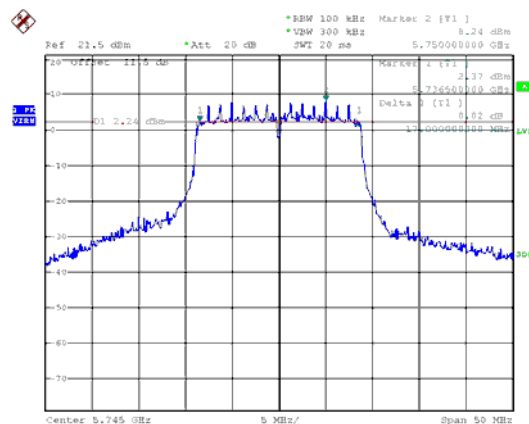
Modulation Mode: 802.11a (6Mbps)

CH149

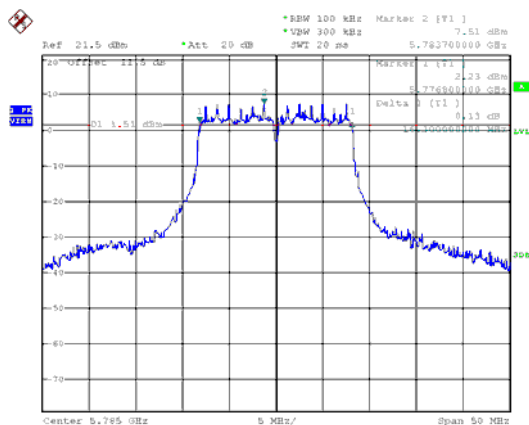


Modulation Mode: 802.11ac, VHT20 (6.5Mbps)

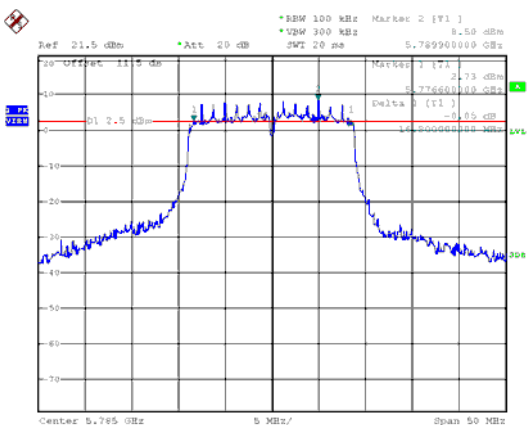
CH149



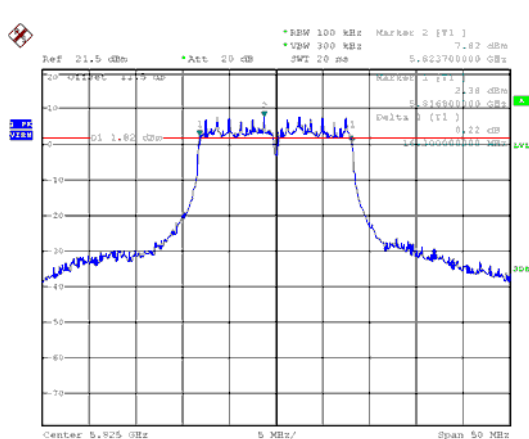
CH157



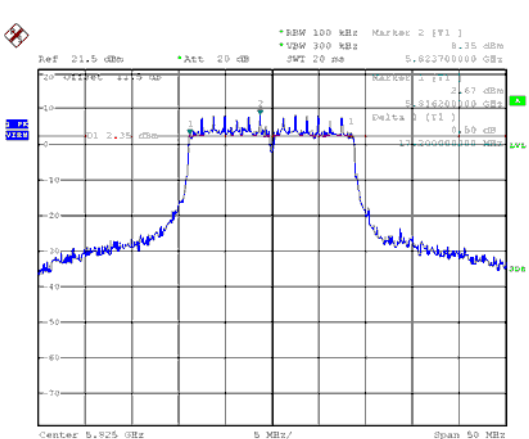
CH157



CH165



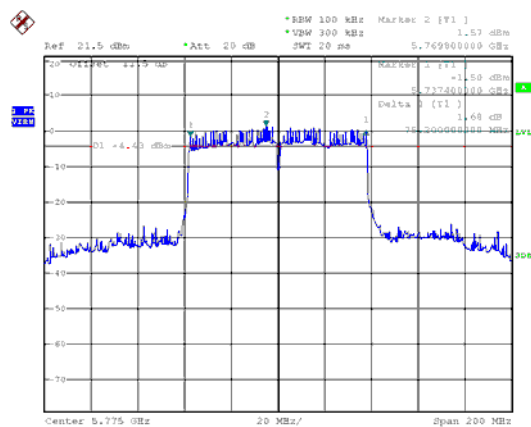
CH165





Antenna A

Modulation Mode: 802.11ac, VHT80 (29.3Mbps)
CH155



*BW 100 kHz Marker 2 [V1]
 *VM 300 kHz 5.97 dBm
 *SW 20 ms 5.790000000 GHz

Ref 21.5 dBm *Att 20 dB

21.500000 MHz -1.58 dBm
 5.777400000 GHz
 Delta 2 [V1] 9.56 dB
 5.790000000 GHz

Center 21.5 MHz 10 MHz/ Span 10 MHz

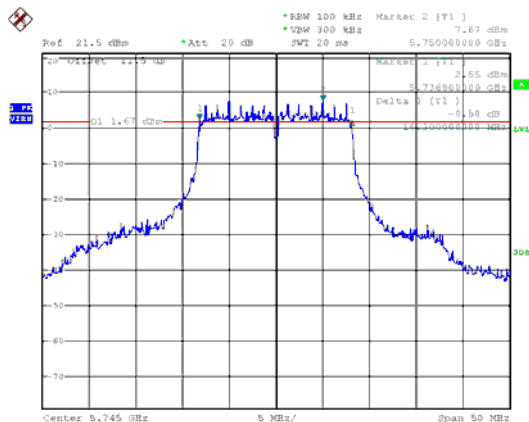


6dB Bandwidth

Antenna B

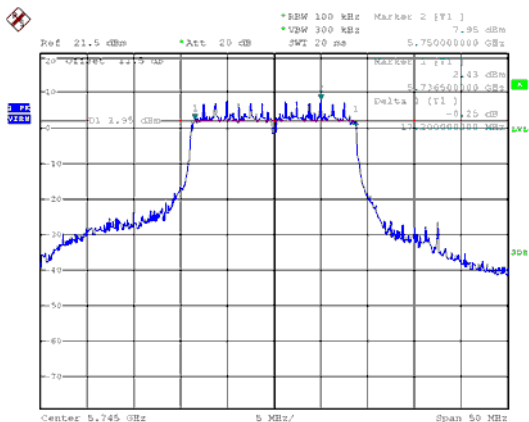
Modulation Mode: 802.11a (6Mbps)

CH149

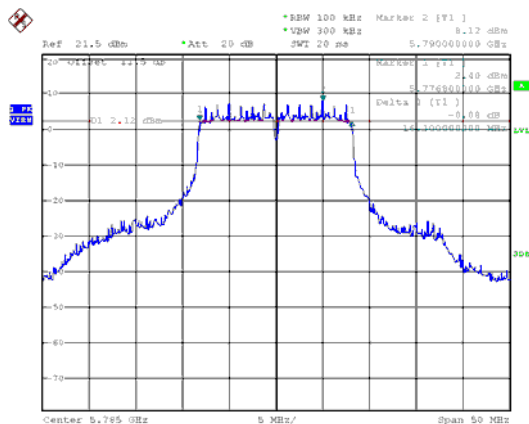


Modulation Mode: 802.11ac, VHT20 (6.5Mbps)

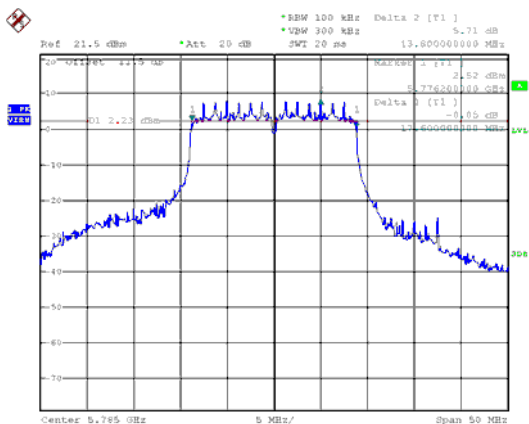
CH149



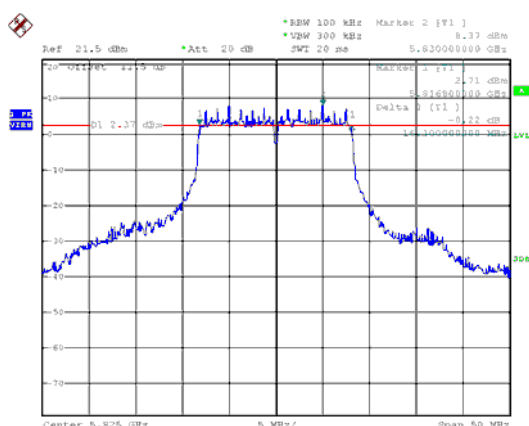
CH157



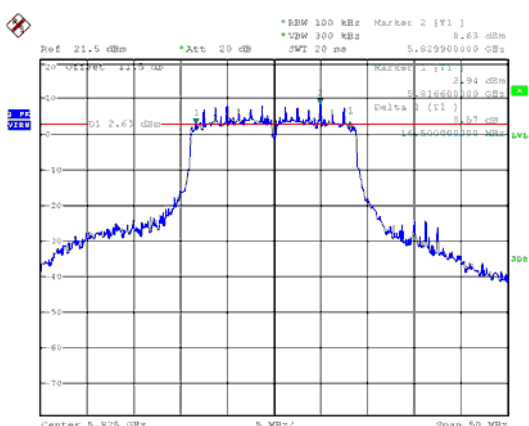
CH157



CH165



CH165

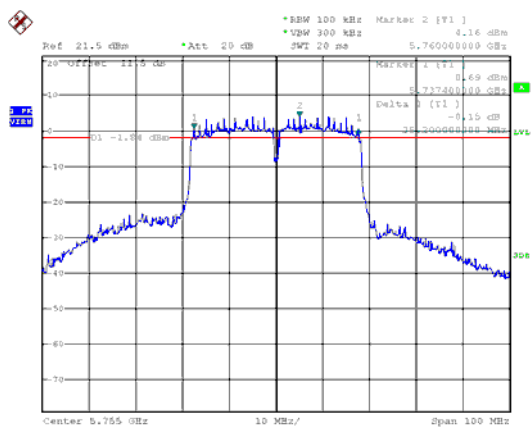




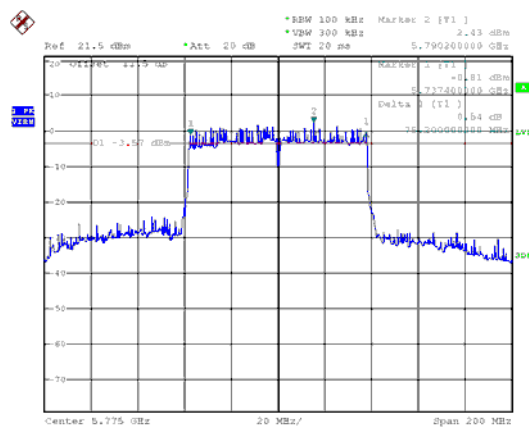
6dB Bandwidth

Antenna B

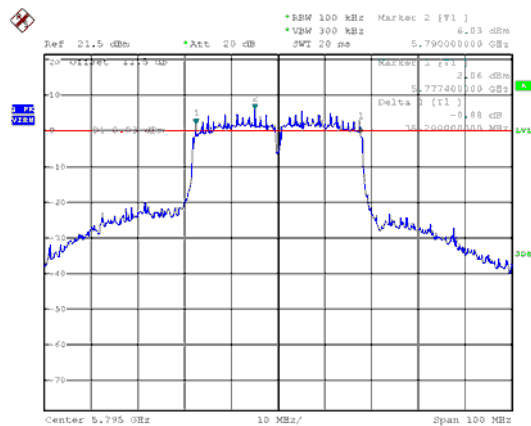
Modulation Mode: 802.11ac, VHT40 (13.5Mbps)
CH151



Modulation Mode: 802.11ac, VHT80 (29.3Mbps)
CH155

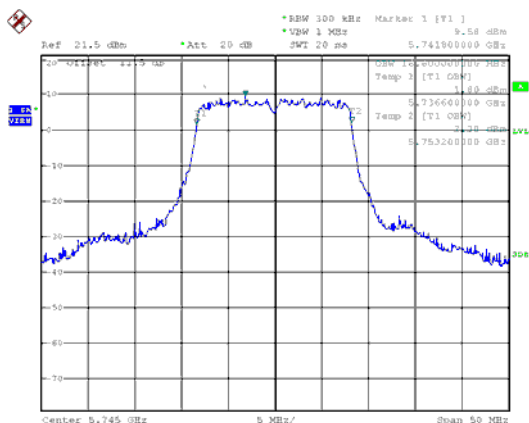


CH159

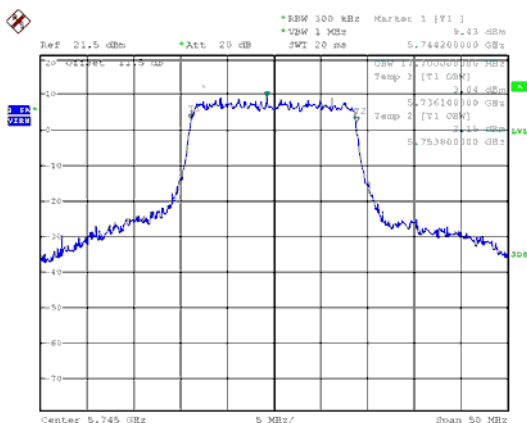




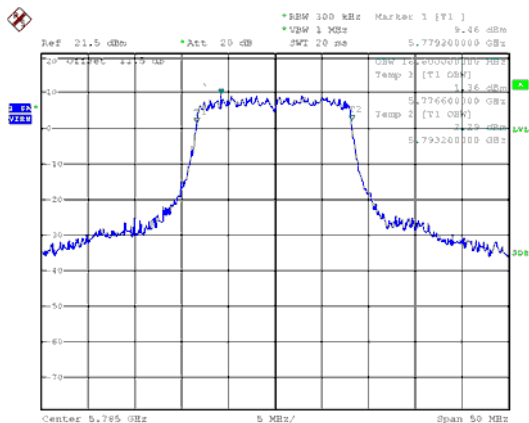
99% Bandwidth
ANT A
Modulation Mode: 802.11a (6Mbps)
CH149



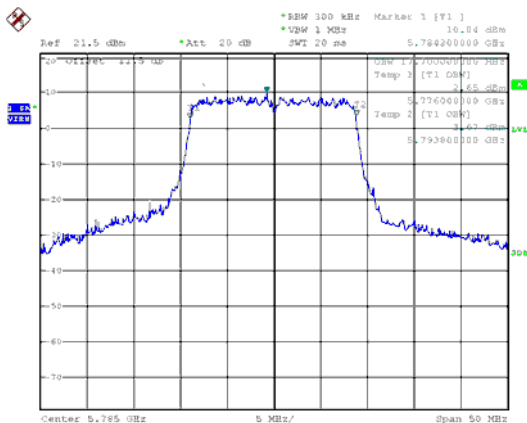
Modulation Mode: 802.11ac, VHT20 (6.5Mbps)
CH149



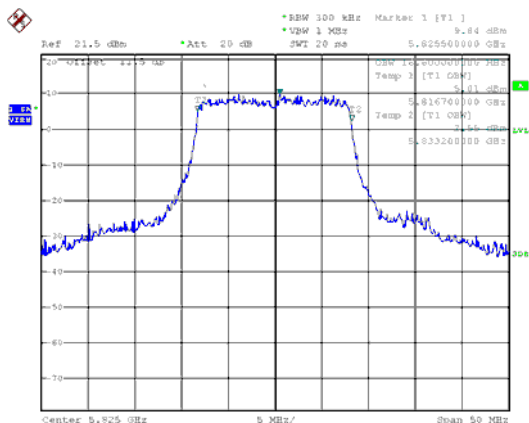
CH157



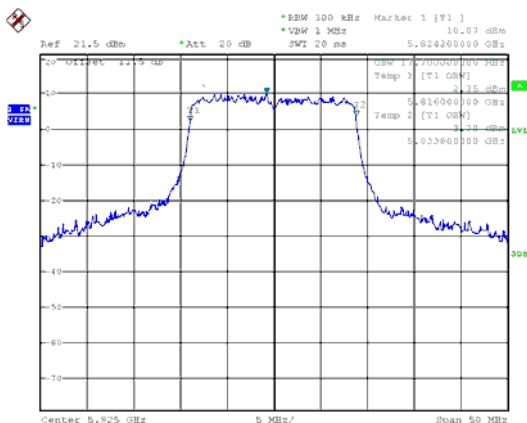
CH157



CH165



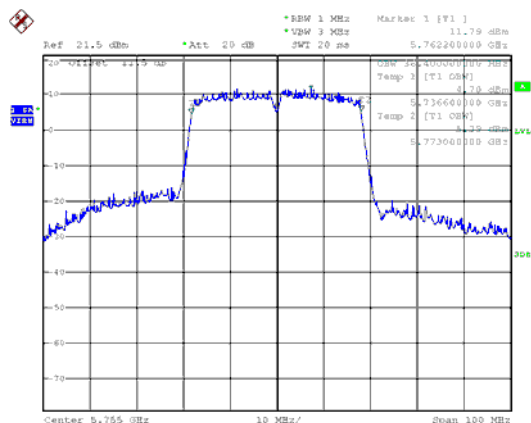
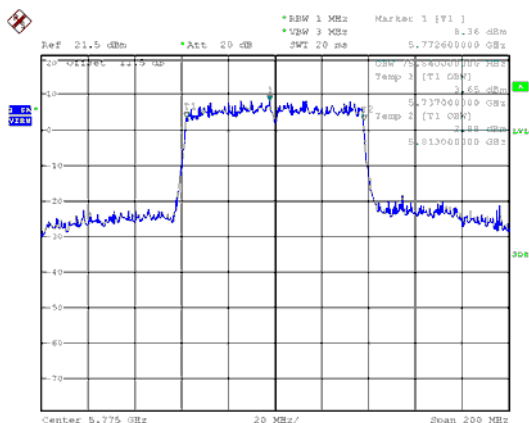
CH165



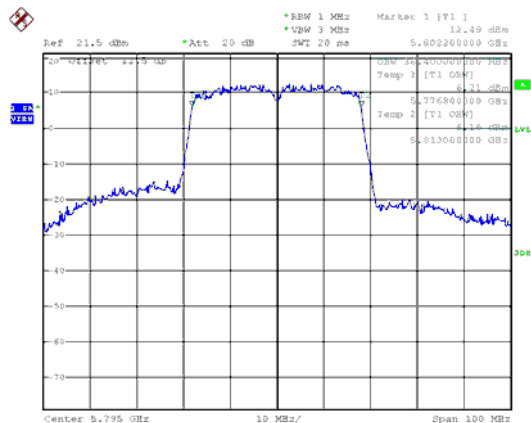


99% Bandwidth

ANT A

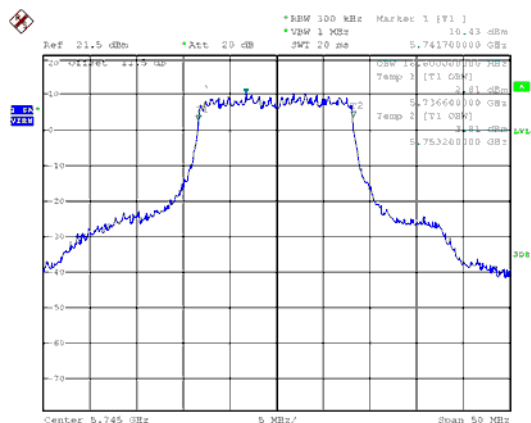
Modulation Mode: 802.11ac, VHT40 (13.5Mbps)
CH151Modulation Mode: 802.11ac, VHT80 (29.3Mbps)
CH155

CH159

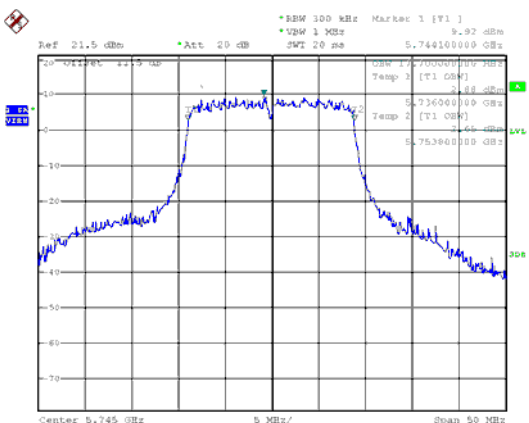




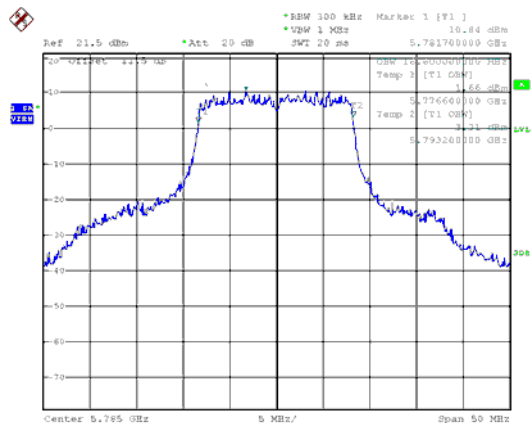
99% Bandwidth
ANT B
Modulation Mode: 802.11a (6Mbps)
CH149



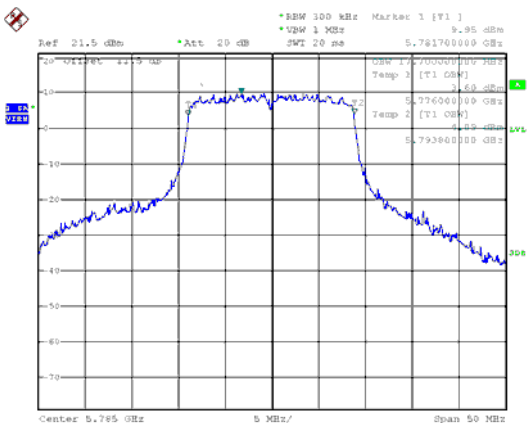
Modulation Mode: 802.11ac, VHT20 (6.5Mbps)
CH149



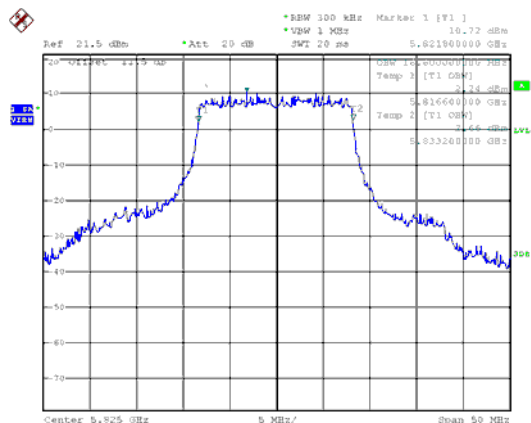
CH157



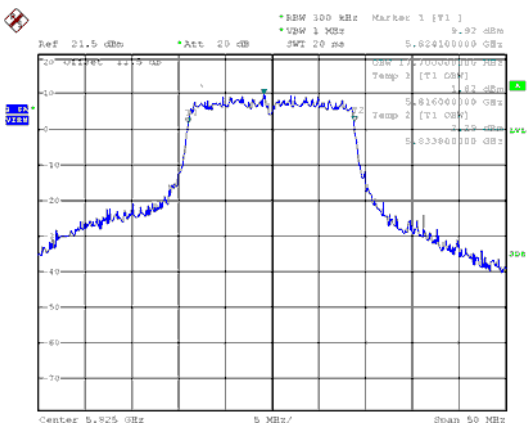
CH157



CH165

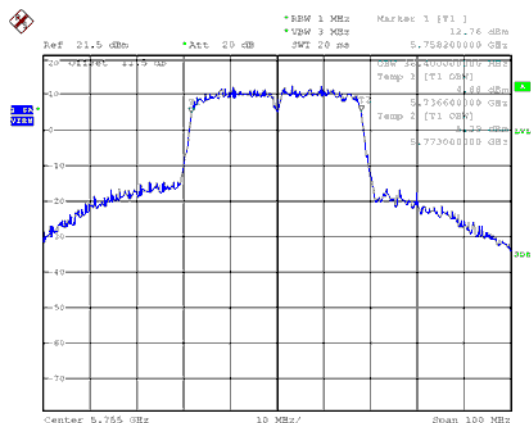


CH165

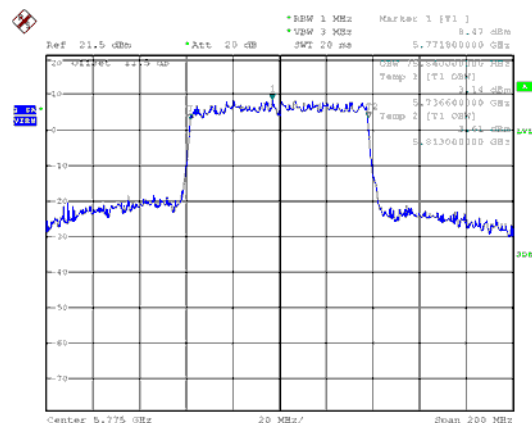




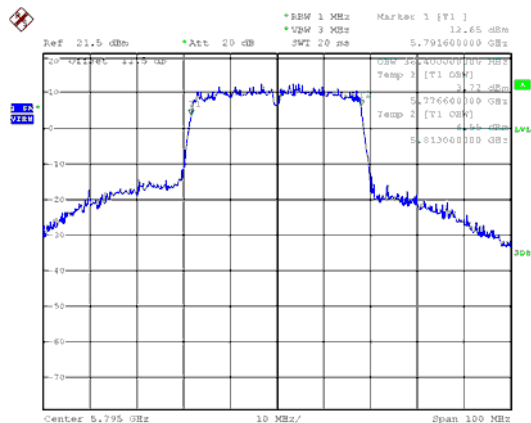
99% Bandwidth
ANT B
Modulation Mode: 802.11ac, VHT40 (13.5Mbps)
CH151



Modulation Mode: 802.11ac, VHT80 (29.3Mbps)
CH155



CH159





8. 26dB & 99% Occupied 頻寬之規定

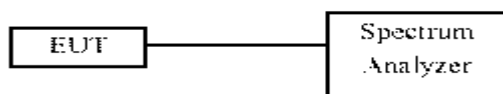
8.1. 適用標準

None; for reporting purposes only.

8.2. 測試方法

Reference to 789033 D02 General UNII Test Procedures New Rules v01: The transmitter output is connected to a spectrum analyzer with the RBW set to approximately 1% of the emission bandwidth, the VBW $\geq$ RBW, peak detector and max hold.

8.3. 測試配置





8.4. 測試結果及數據(26dB Bandwidth)

In the 5.2GHz Band

Modulation Type	Channel	Frequency (MHz)	26dB Bandwidth(MHz)	
			ANT A	ANT B
802.11a	36	5180	20.10	20.50
	44	5220	20.10	20.60
	48	5240	20.00	20.60
802.11ac VHT20	36	5180	20.80	21.50
	44	5220	20.70	21.60
	48	5240	20.80	21.50
802.11ac VHT40	38	5190	41.20	41.20
	46	5230	40.80	41.20
802.11ac VHT80	42	5210	84.80	85.20

In the 5.3GHz Band

Modulation Type	Channel	Frequency (MHz)	26dB Bandwidth(MHz)	
			ANT A	ANT B
802.11a	52	5260	20.10	20.50
	60	5300	19.90	20.10
	64	5320	20.20	20.00
802.11ac VHT20	52	5260	20.70	21.20
	60	5300	20.90	20.80
	64	5320	20.90	20.80
802.11ac VHT40	54	5270	41.20	41.20
	62	5310	40.00	39.80
802.11ac VHT80	58	5290	84.48	84.48

In the 5.5GHz Band

Modulation Type	Channel	Frequency (MHz)	26dB Bandwidth (MHz)	
			ANT A	ANT B
802.11a	100	5500	20.10	20.50
	120	5600	20.00	20.20
	140	5700	20.00	20.40
802.11ac VHT20	100	5500	20.80	21.20
	120	5600	20.80	21.00
	140	5700	20.70	21.20
802.11ac VHT40	102	5510	41.20	41.20
	118	5590	41.00	41.20
	134	5670	41.20	41.00
802.11ac VHT80	106	5530	85.44	84.80
	122	5610	85.20	85.20

備註：繪圖資料請參考下頁。



8.5. 測試結果及數據(99% Occupied Bandwidth)

In the 5.2GHz Band

Modulation Type	Channel	Frequency (MHz)	99% Bandwidth (MHz)	
			ANT A	ANT B
802.11a	36	5180	16.50	16.60
	44	5220	16.50	16.60
	48	5240	16.60	16.60
802.11ac VHT20	36	5180	17.70	17.70
	44	5220	17.60	17.70
	48	5240	17.60	17.70
802.11ac VHT40	38	5190	36.40	36.40
	46	5230	36.40	36.40
802.11ac VHT80	42	5210	75.84	75.52

In the 5.3GHz Band

Modulation Type	Channel	Frequency (MHz)	99% Bandwidth (MHz)	
			ANT A	ANT B
802.11a	52	5260	16.50	16.60
	60	5300	16.60	16.60
	64	5320	16.60	16.60
802.11ac VHT20	52	5260	17.70	17.80
	60	5300	17.70	17.70
	64	5320	17.70	17.80
802.11ac VHT40	54	5270	36.20	36.20
	62	5310	36.20	36.20
802.11ac VHT80	58	5290	75.60	76.00

In the 5.5GHz Band

Modulation Type	Channel	Frequency (MHz)	99% Bandwidth (MHz)	
			ANT A	ANT B
802.11a	100	5500	16.50	16.60
	120	5600	16.70	16.60
	140	5700	16.60	16.60
802.11ac VHT20	100	5500	17.60	17.80
	120	5600	17.70	17.70
	140	5700	17.70	17.70
802.11ac VHT40	102	5510	36.20	36.20
	118	5590	36.20	36.20
	134	5670	36.20	36.20
802.11ac VHT80	106	5530	75.60	76.00
	122	5610	76.00	76.00

備註：繪圖資料請參考下頁。

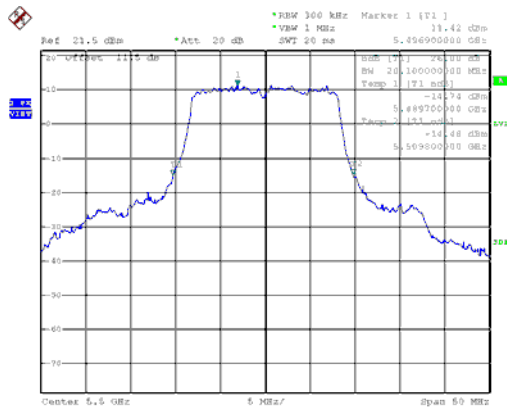




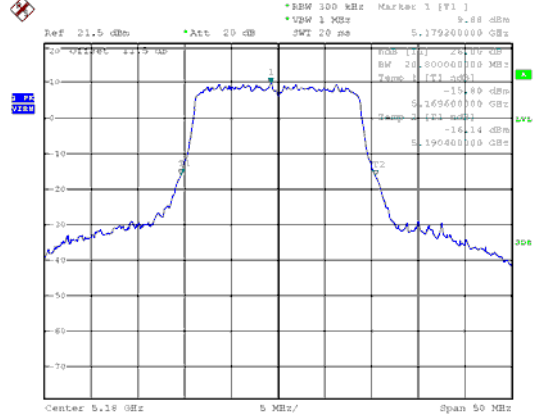
26dB Bandwidth

Antenna A

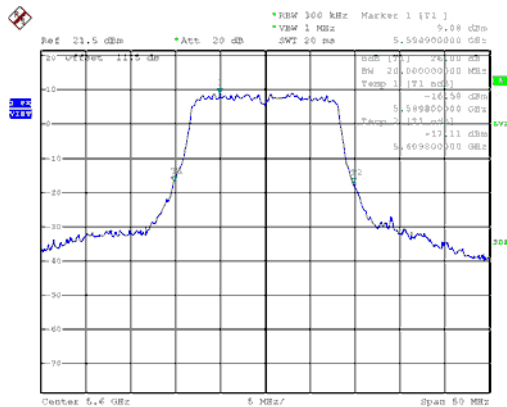
Modulation Mode: 802.11a (6Mbps)
CH100



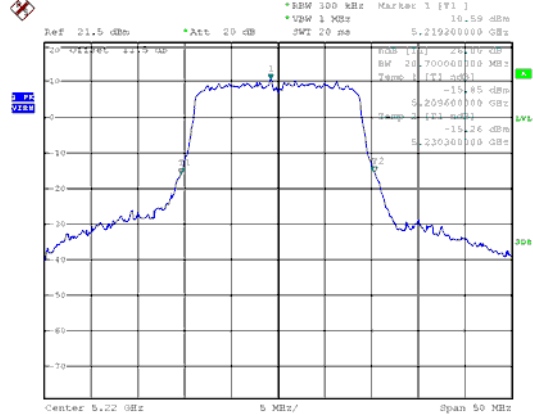
Modulation Mode: 802.11ac VHT20 (6.5Mbps)
CH36



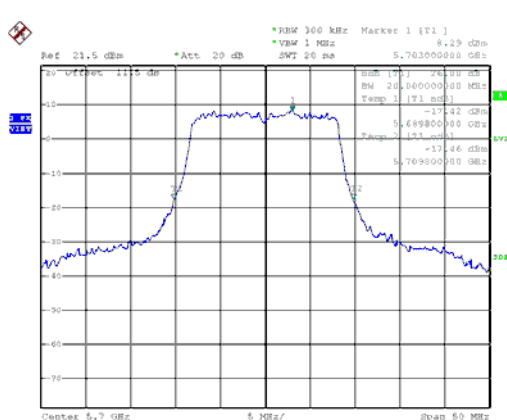
CH120



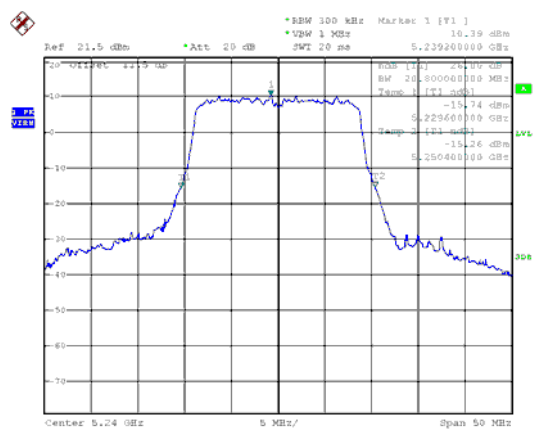
CH44



CH140



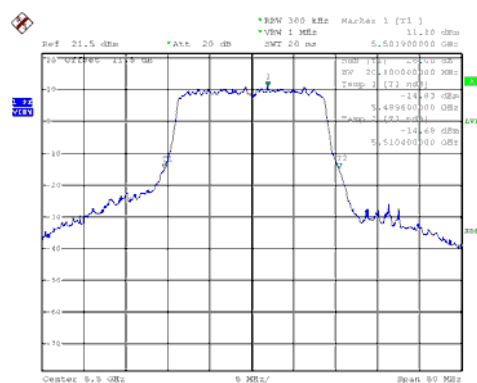
CH48



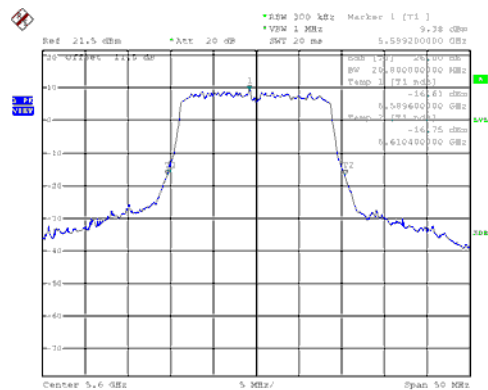


ANT A

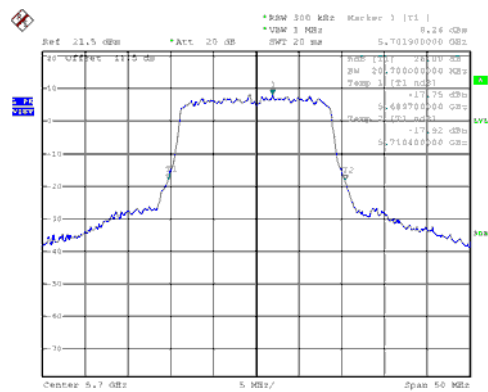
CH100



CH120

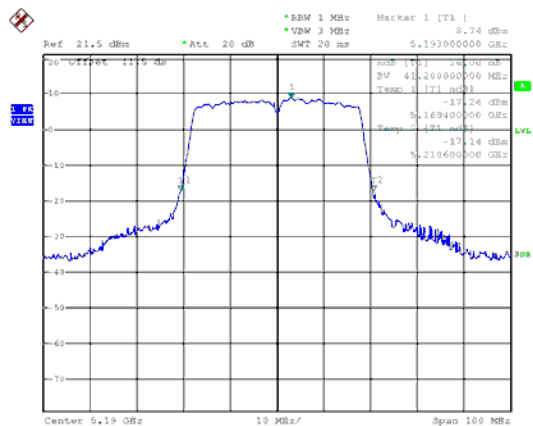


CH140

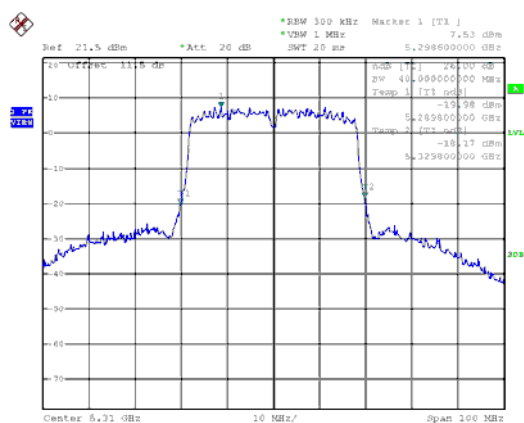




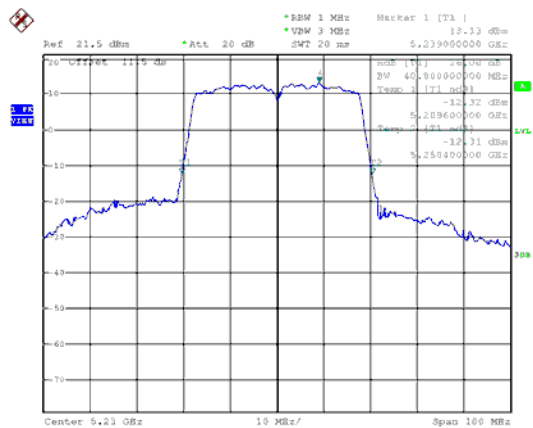
26dB Bandwidth
ANT A
Modulation Mode: 802.11ac VHT40 (13.5Mbps)
CH38



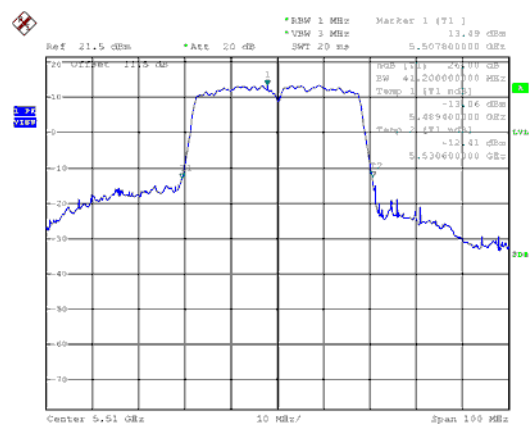
CH62



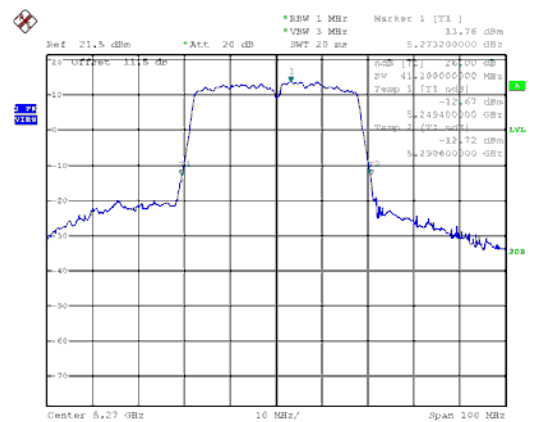
CH46



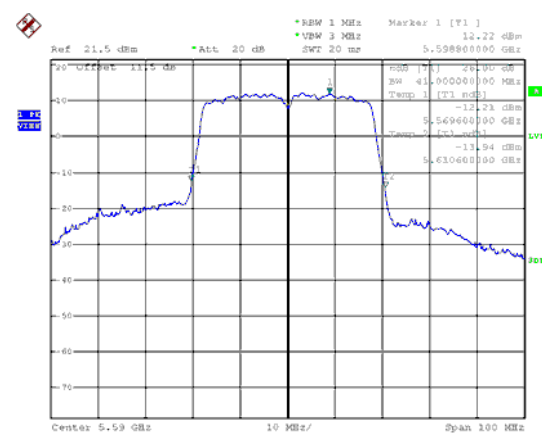
CH102



CH54



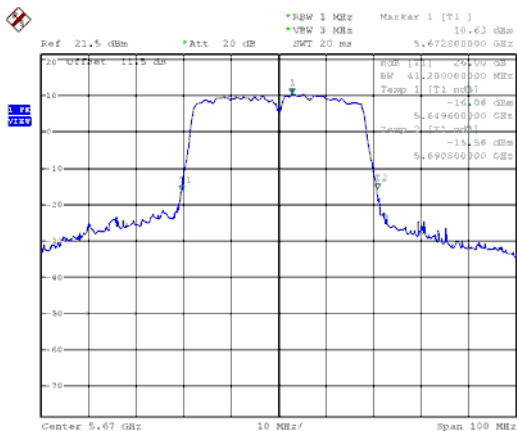
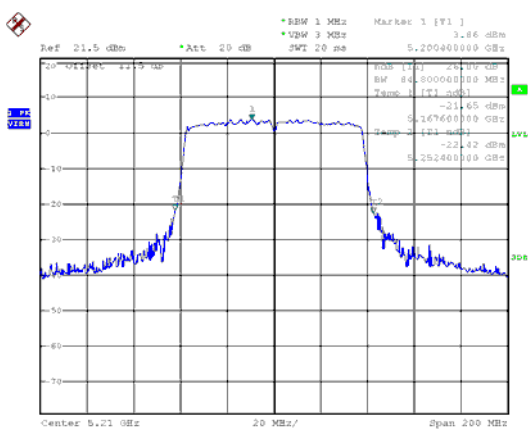
CH118



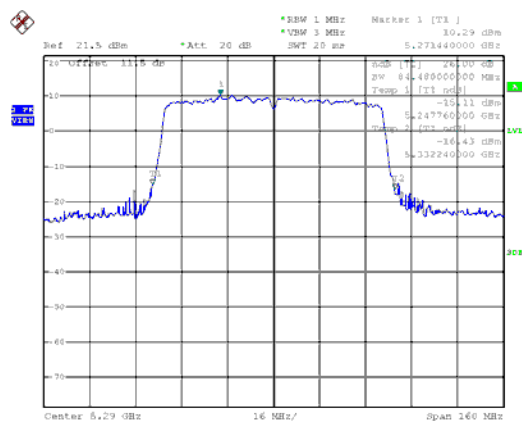


26dB Bandwidth

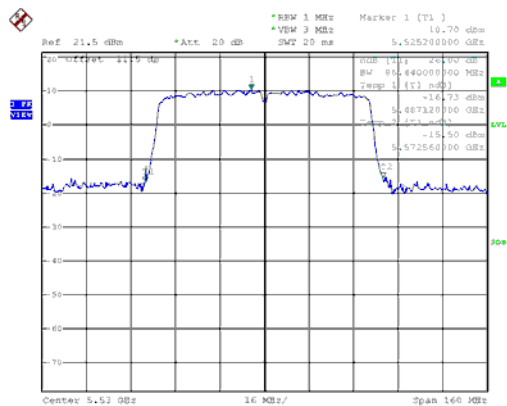
Antenna A

Modulation Mode: 802.11ac VHT40 (13.5Mbps)
CH134Modulation Mode: 11ac VHT80 (29.3Mbps)
CH42

CH58



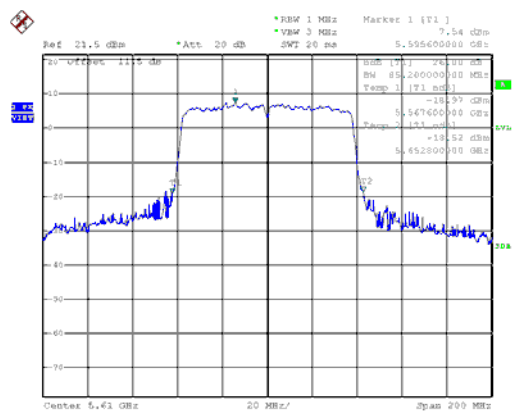
CH106





Antenna A

CH122



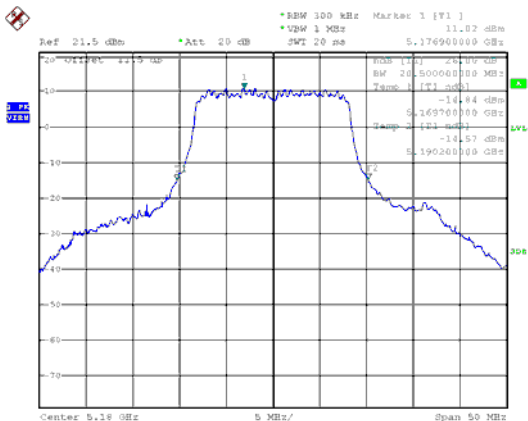
26dB Bandwidth



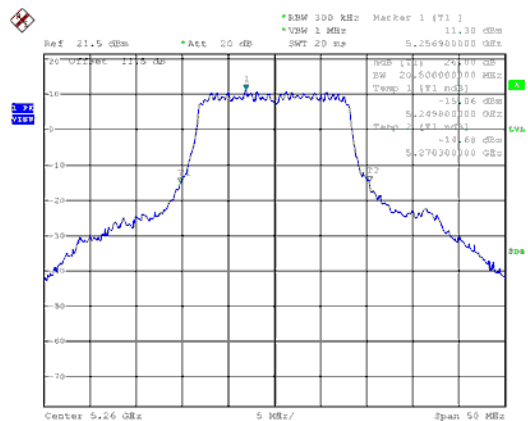
Antenna B

Modulation Mode: 802.11a (6Mbps)

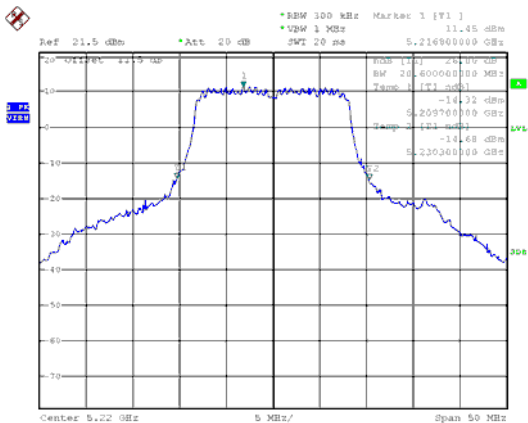
CH36



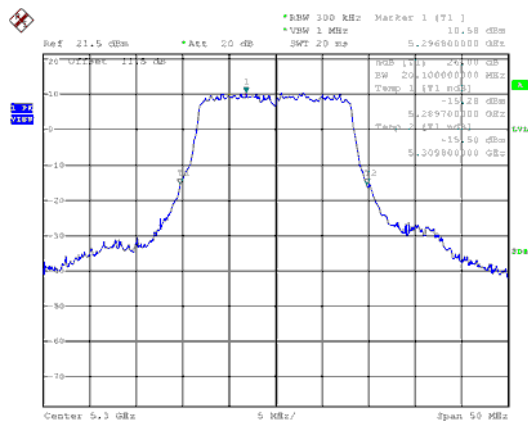
CH52



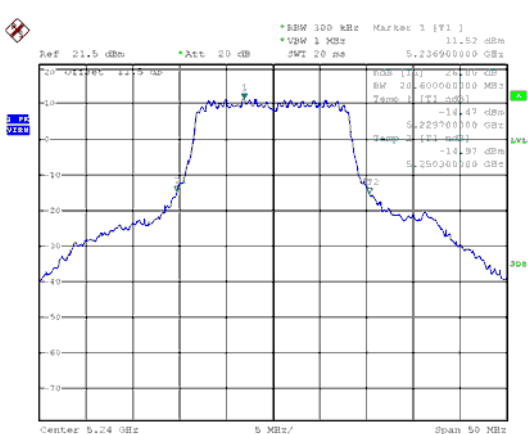
CH44



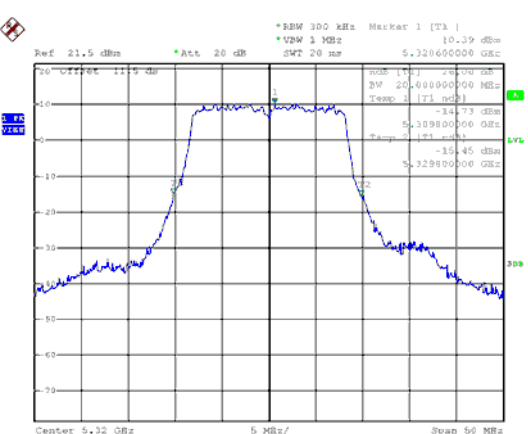
CH60



CH48



CH64

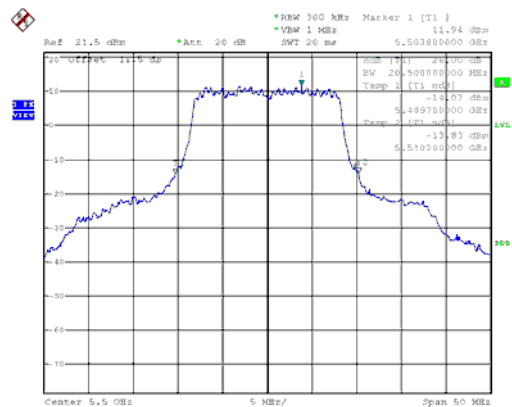




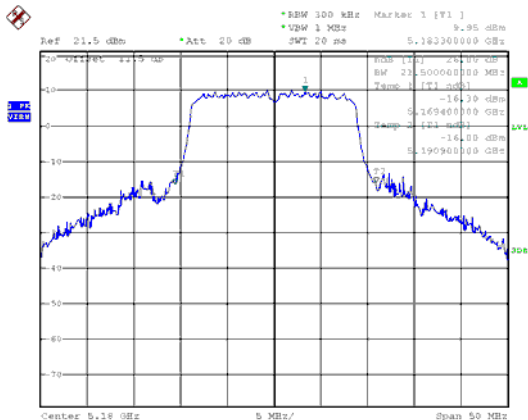
26dB Bandwidth

Antenna B

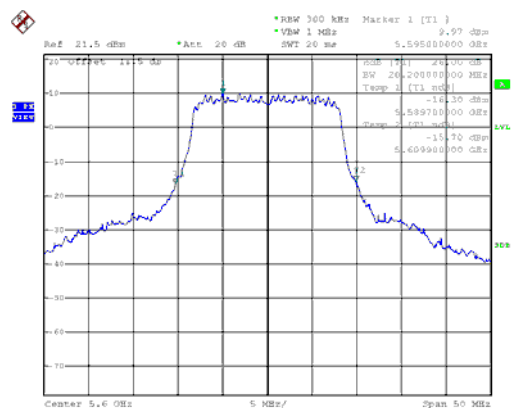
Modulation Mode: 802.11a (6Mbps)
CH100



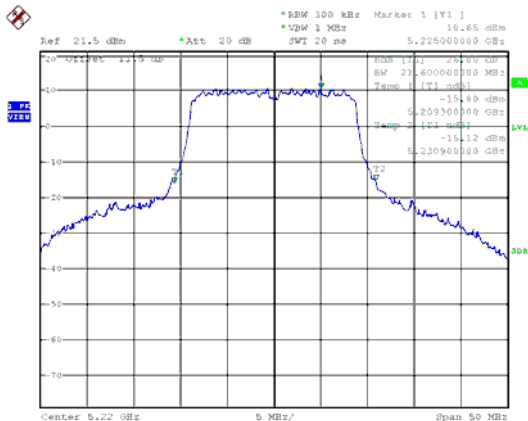
Modulation Mode: 802.11ac VHT20 (6.5Mbps)
CH36



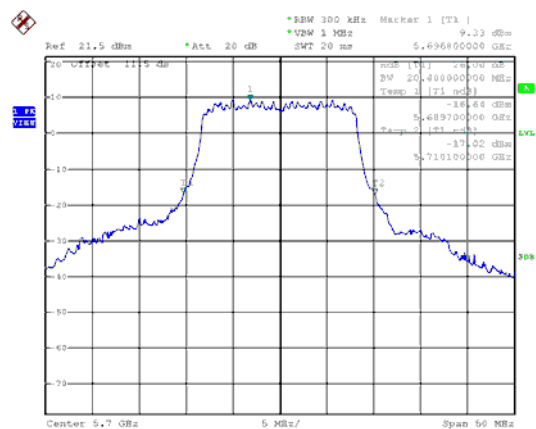
CH120



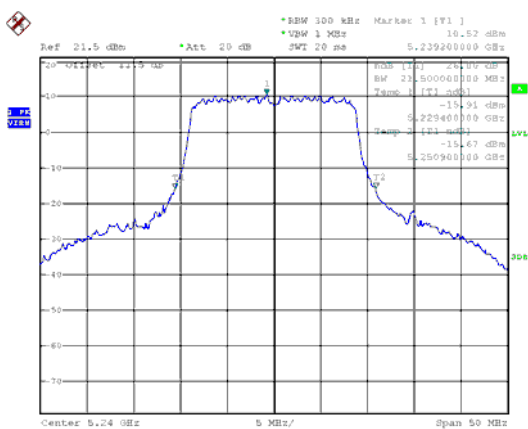
CH44



CH140



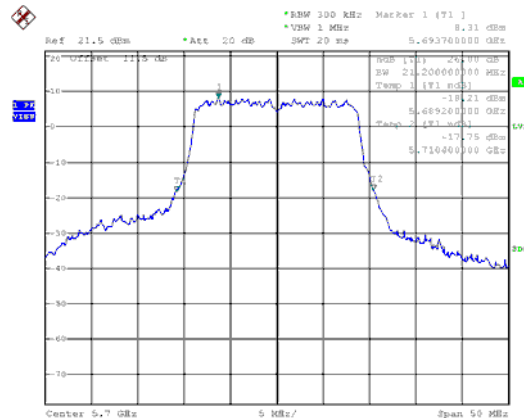
CH48





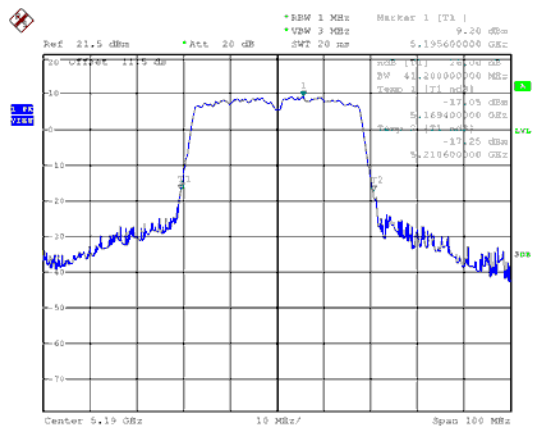
ANT B

CH52

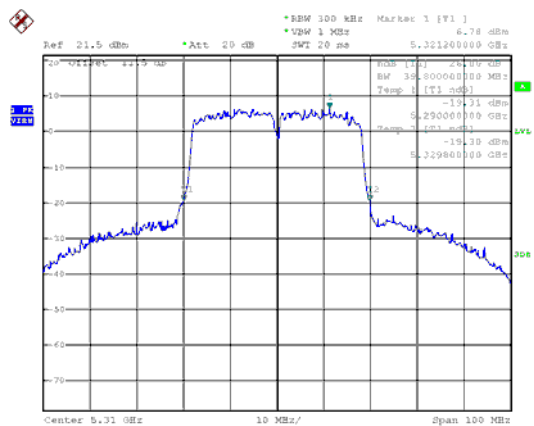




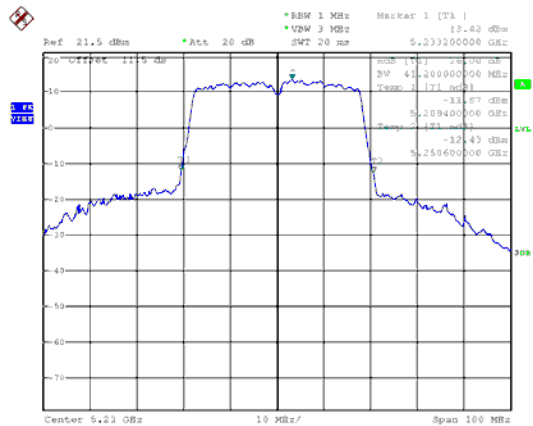
26dB Bandwidth
ANT B
Modulation Mode: 802.11ac VHT40 (13.5Mbps)
CH38



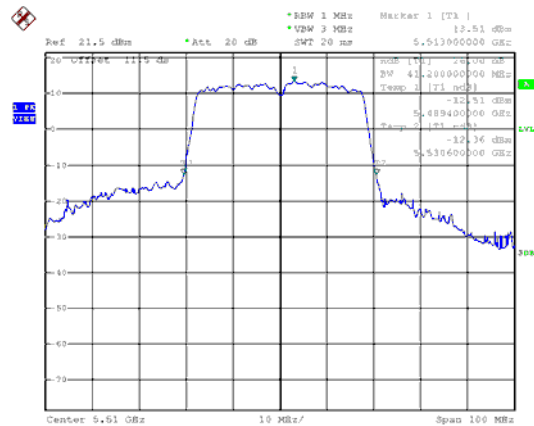
CH62



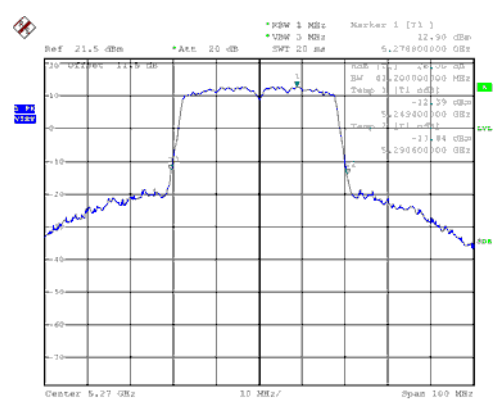
CH46



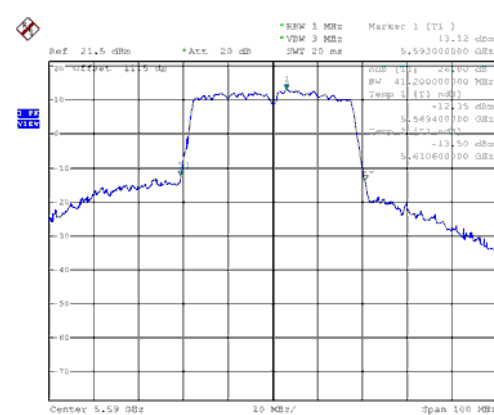
CH102



CH54



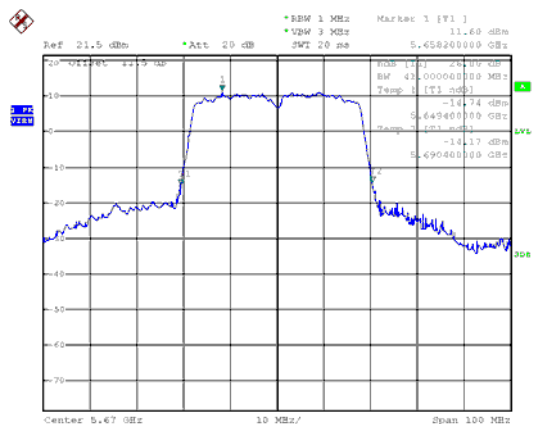
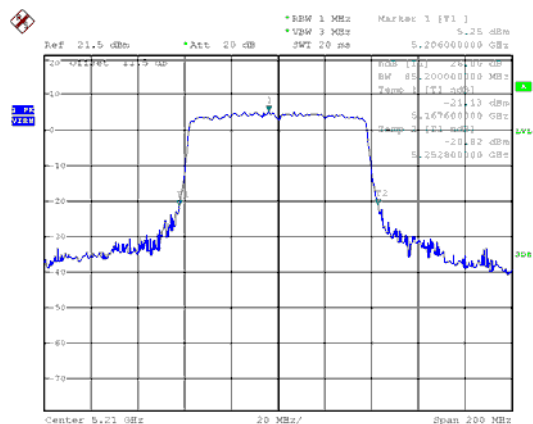
CH118



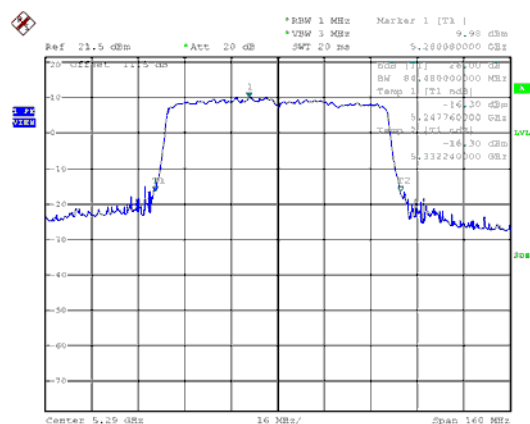


26dB Bandwidth

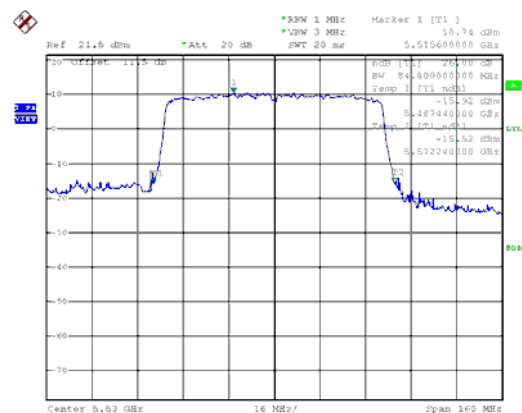
Antenna B

Modulation Mode: 802.11ac VHT40 (13.5Mbps)
CH134Modulation Mode: 11ac VHT80 (29.3Mbps)
CH42

CH58



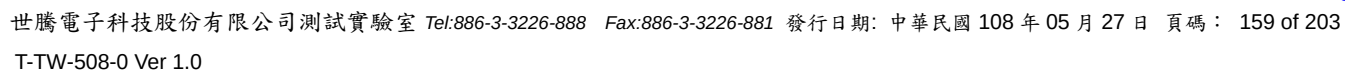
CH106





Antenna B

CH122



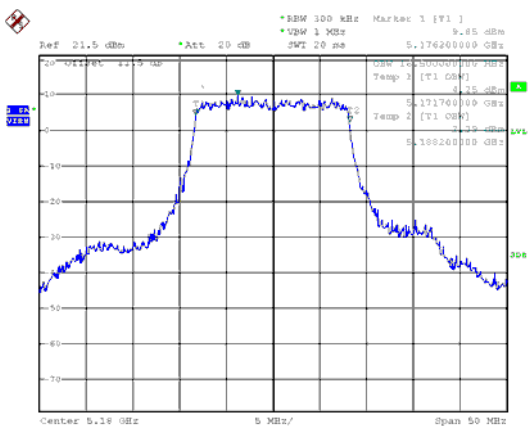


99% Occupied Bandwidth

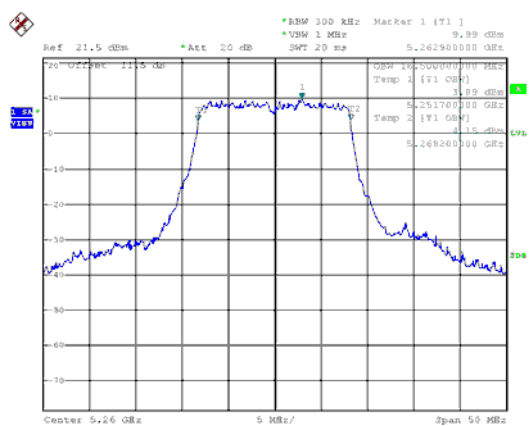
Antenna A

Modulation Mode: 802.11a (6Mbps)

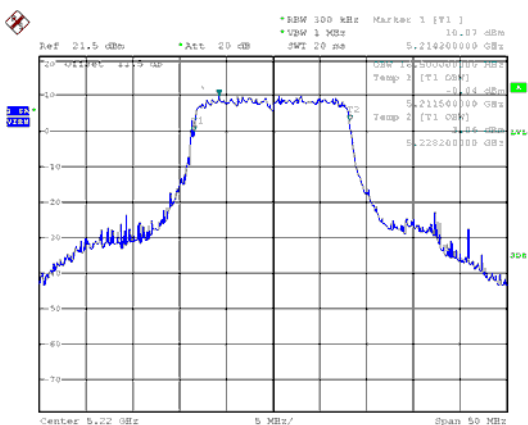
CH36



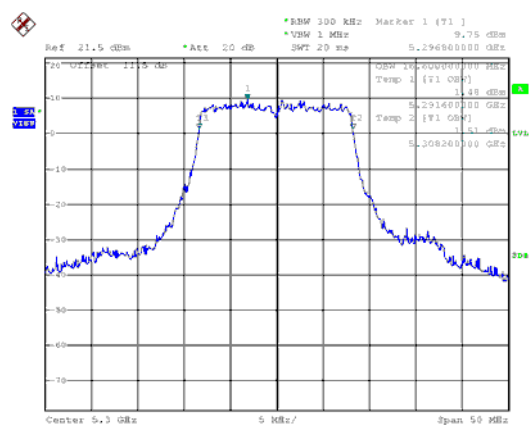
CH52



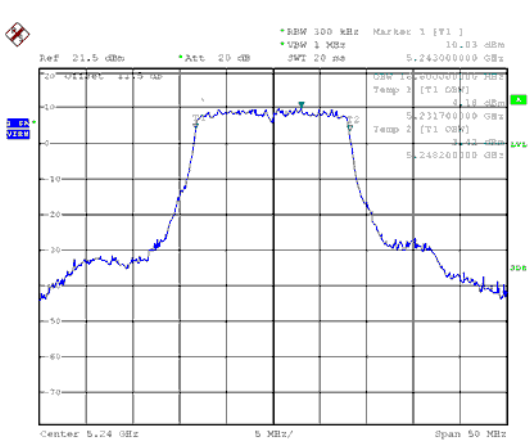
CH44



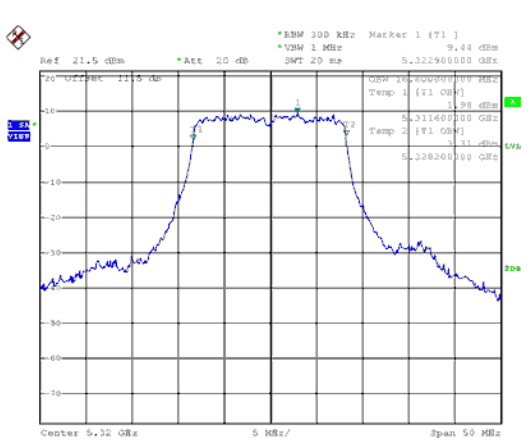
CH60



CH48



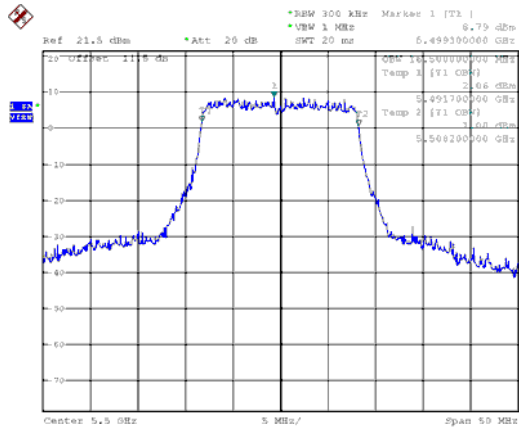
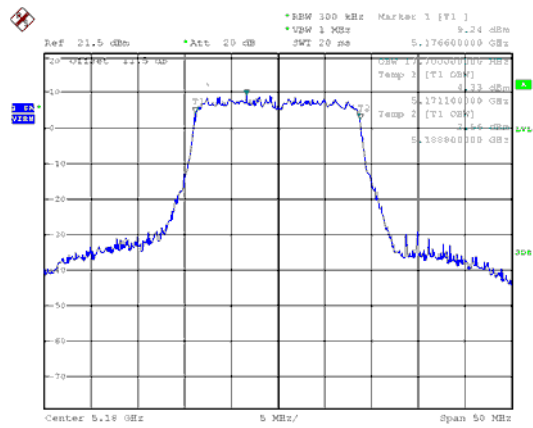
CH64



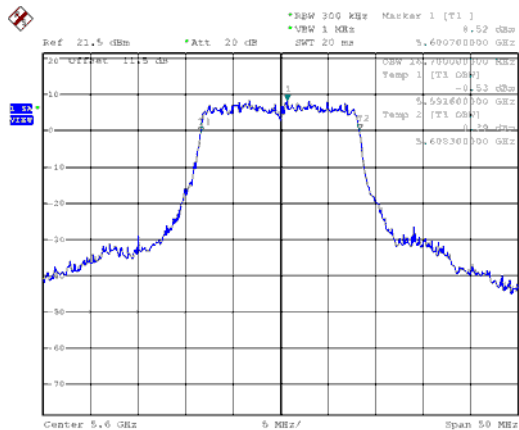


99% Occupied Bandwidth

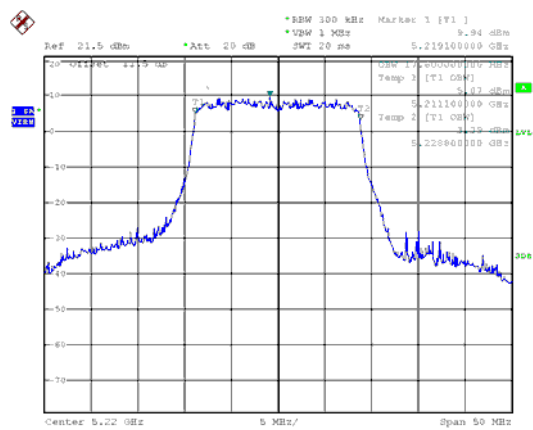
Antenna A

Modulation Mode: 802.11a (6Mbps)
CH100Modulation Mode: 802.11ac VHT20 (6.5Mbps)
CH36

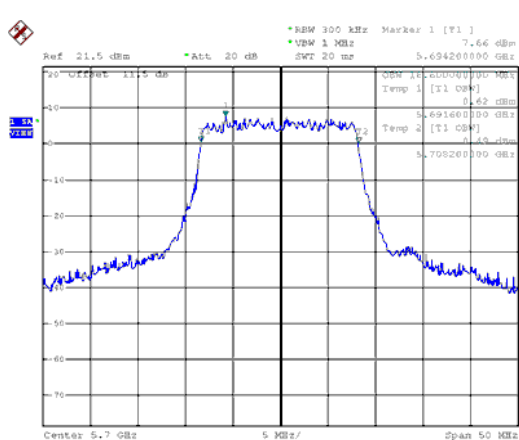
CH120



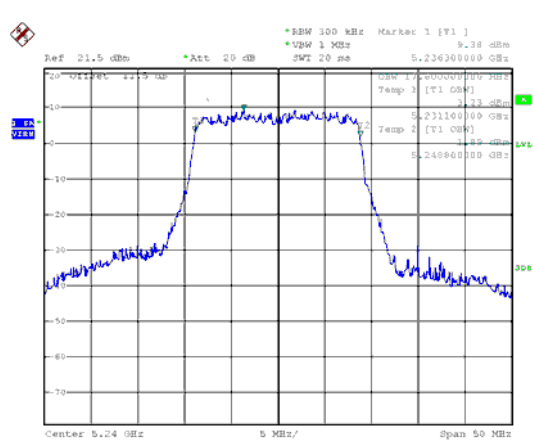
CH44



CH140



CH48



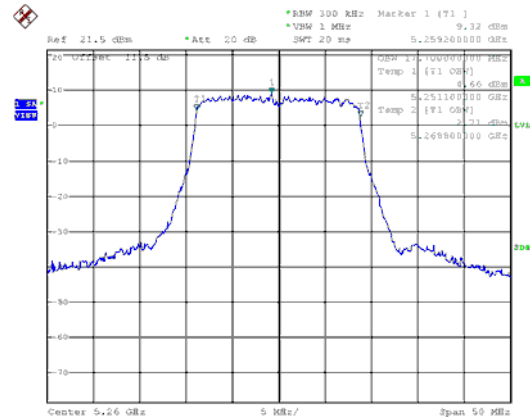


99% Occupied Bandwidth

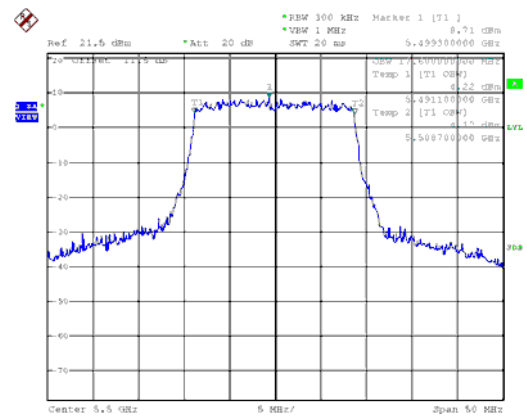
ANT A

Modulation Mode: 802.11ac VHT20 (6.5Mbps)

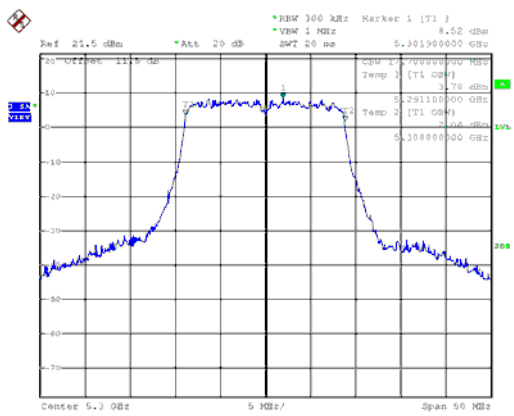
CH52



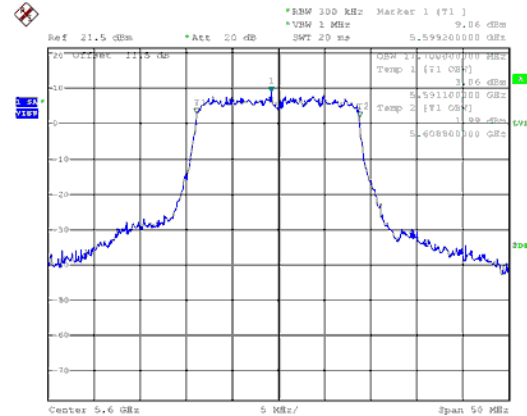
CH100



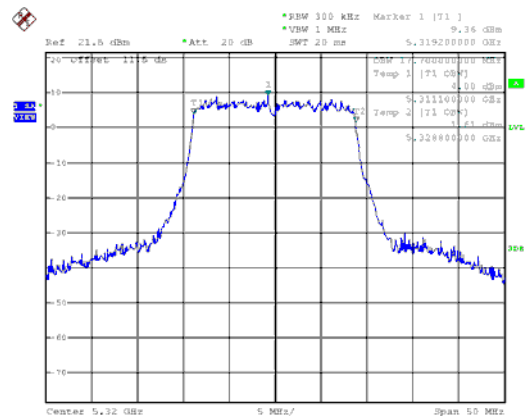
CH60



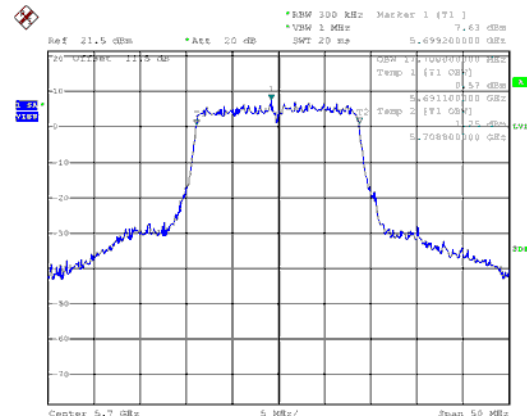
CH120



CH64

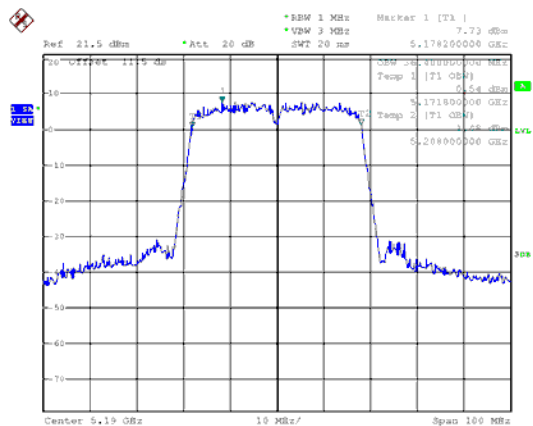


CH140

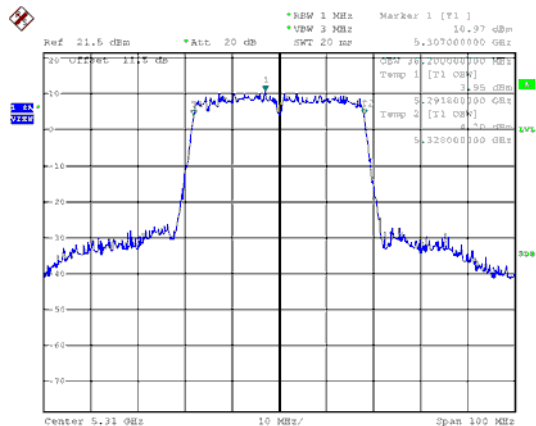




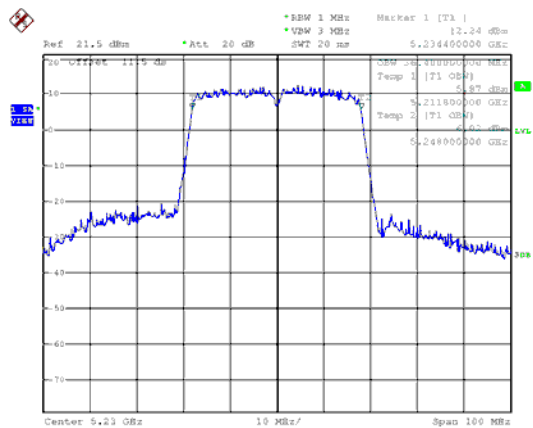
99% Occupied Bandwidth
ANT A
Modulation Mode: 802.11ac VHT40 (13.5Mbps)
CH38



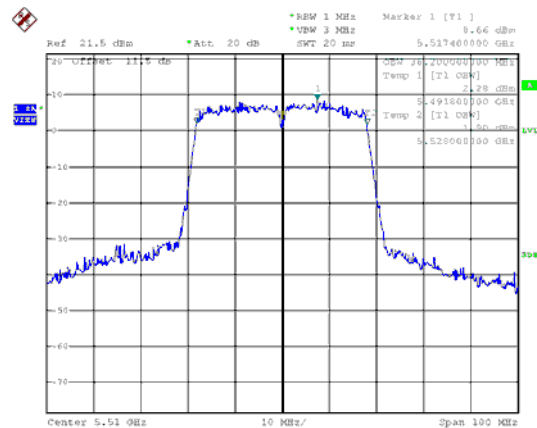
CH62



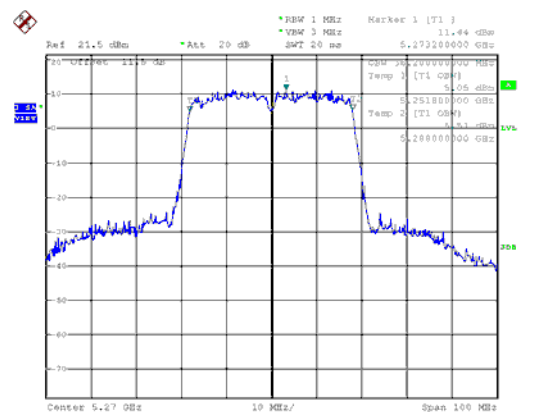
CH46



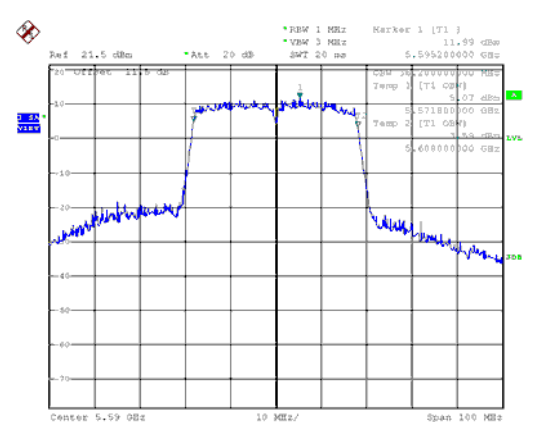
CH102



CH54



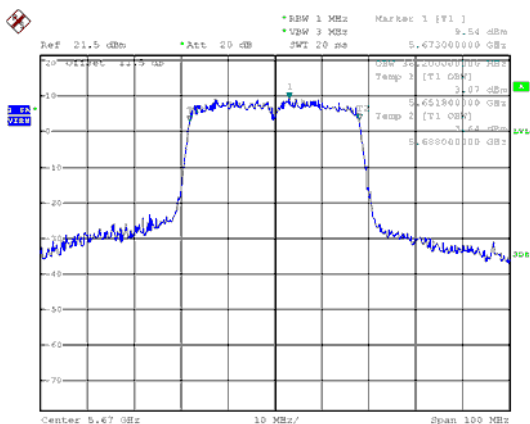
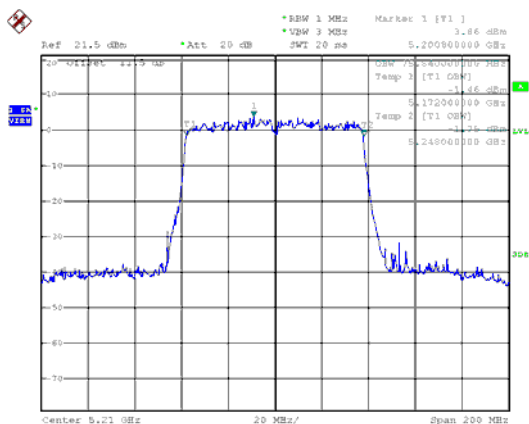
CH118



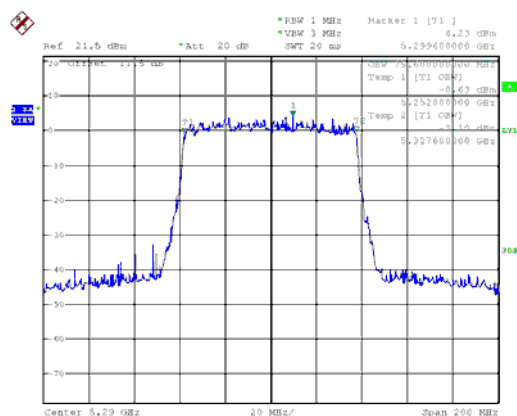


99% Occupied Bandwidth

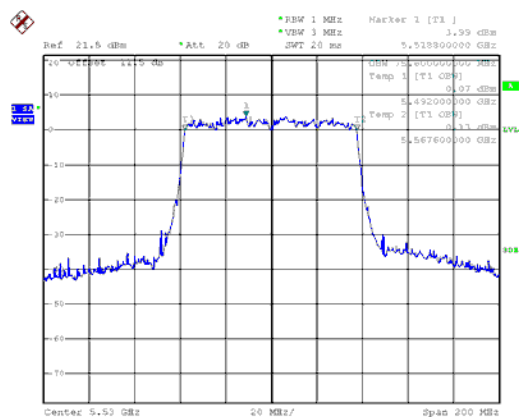
Antenna A

Modulation Mode: 802.11ac VHT40 (13.5Mbps)
CH134Modulation Mode: 11ac VHT80 (29.3Mbps)
CH42

CH58



CH106



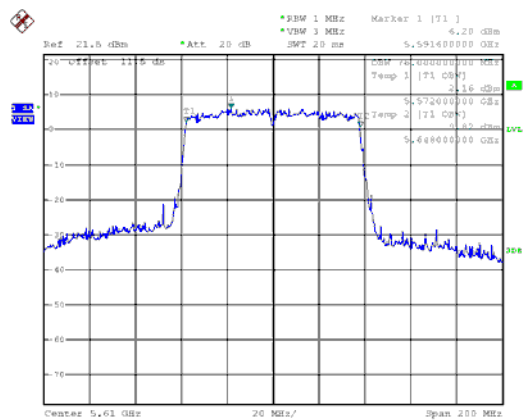


99% Occupied Bandwidth

Antenna A

Modulation Mode: 802.11ac VHT80 (29.3Mbps)

CH122



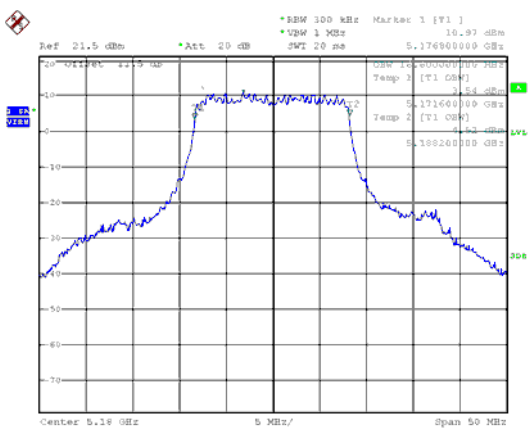


99% Occupied Bandwidth

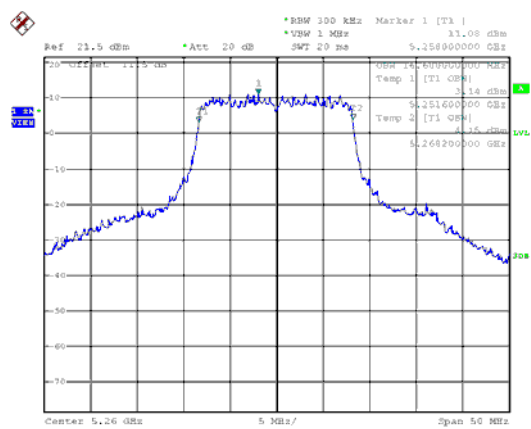
Antenna B

Modulation Mode: 802.11a (6Mbps)

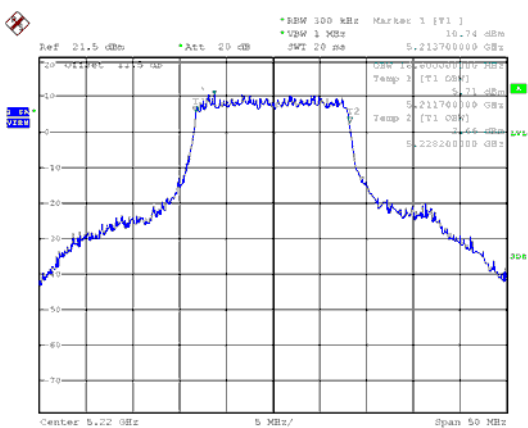
CH36



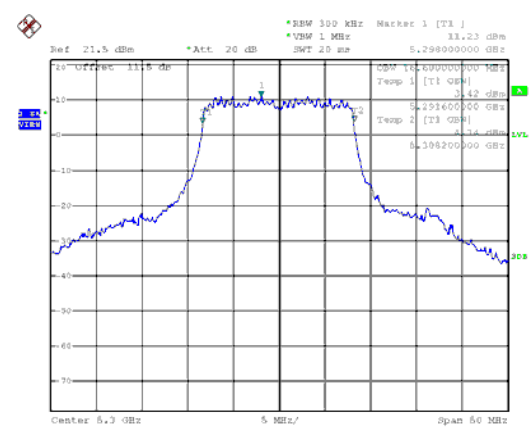
CH52



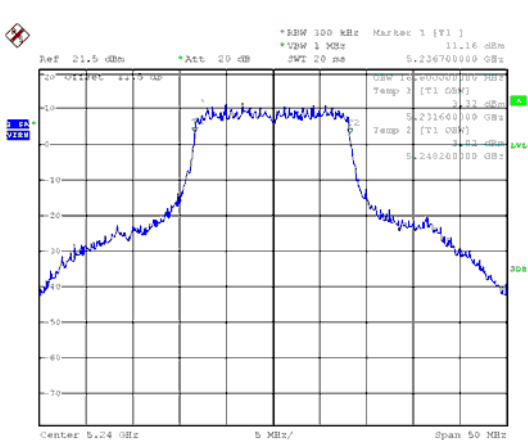
CH44



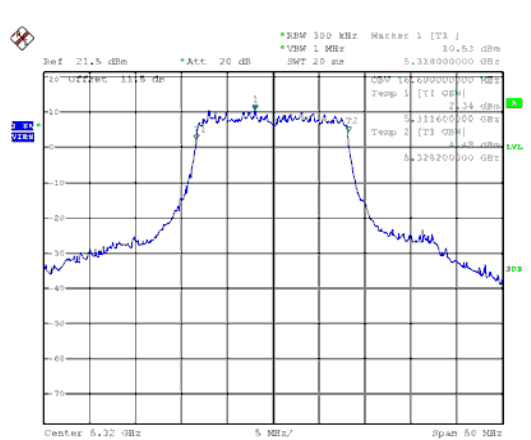
CH60



CH48



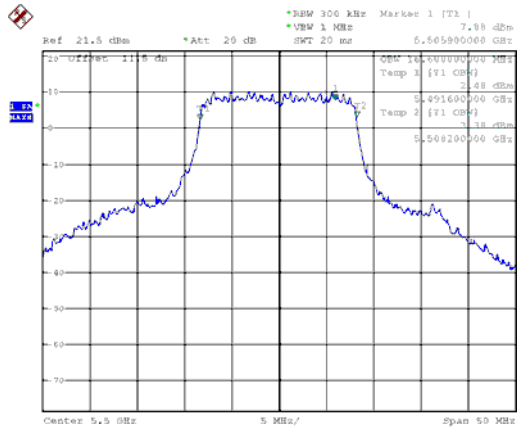
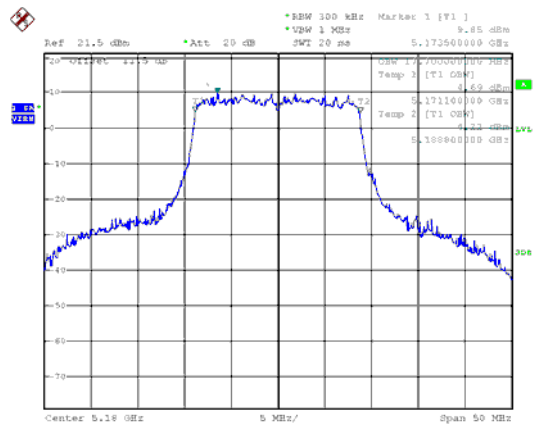
CH64



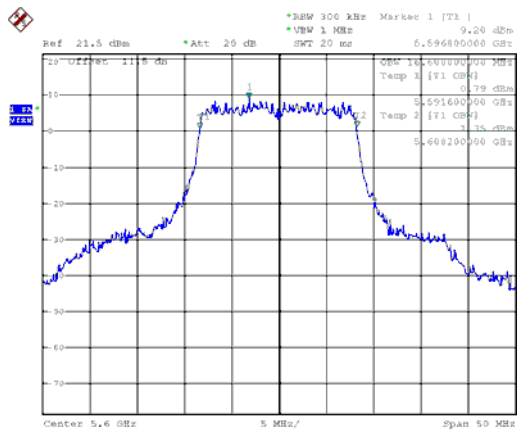


99% Occupied Bandwidth

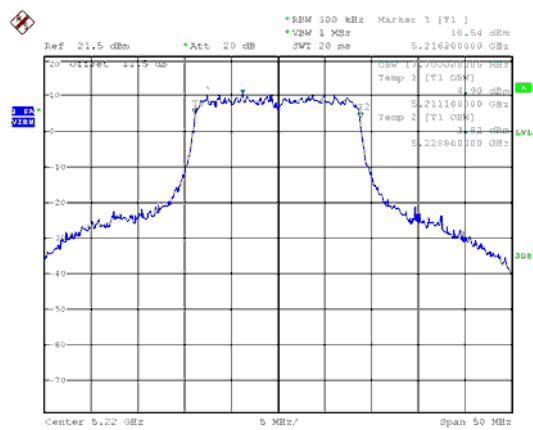
Antenna B

Modulation Mode: 802.11a (6Mbps)
CH100Modulation Mode: 802.11ac VHT20 (6.5Mbps)
CH36

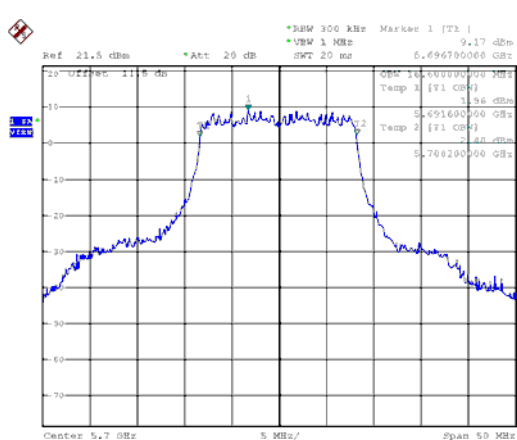
CH120



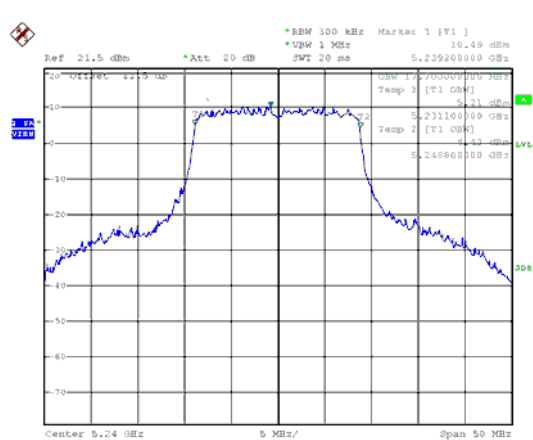
CH44



CH140



CH48



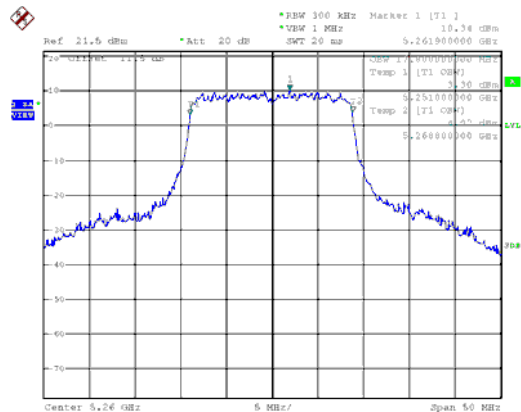


99% Occupied Bandwidth

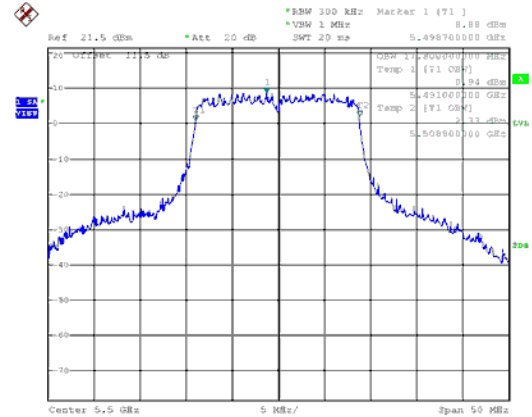
ANT B

Modulation Mode: 802.11ac VHT20 (6.5Mbps)

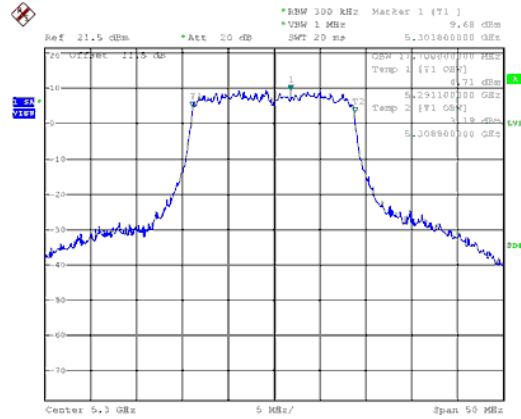
CH52



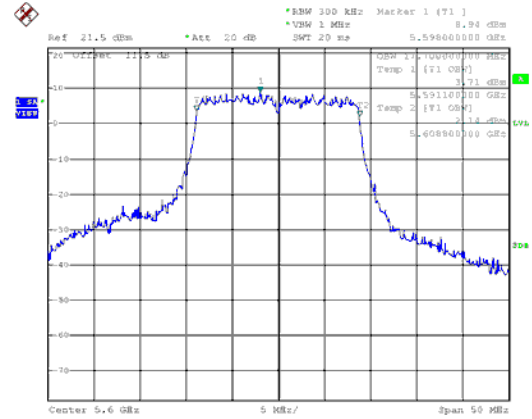
CH100



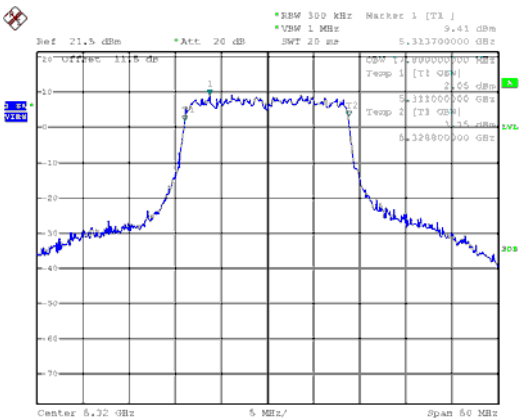
CH60



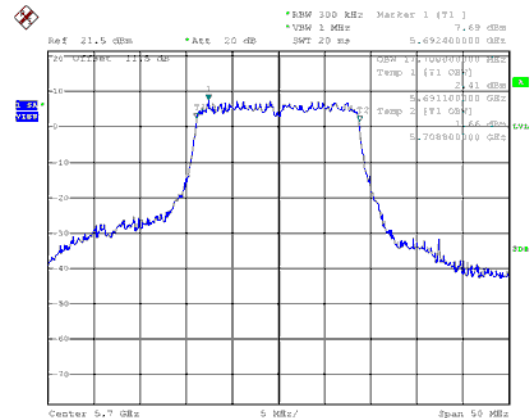
CH120



CH64

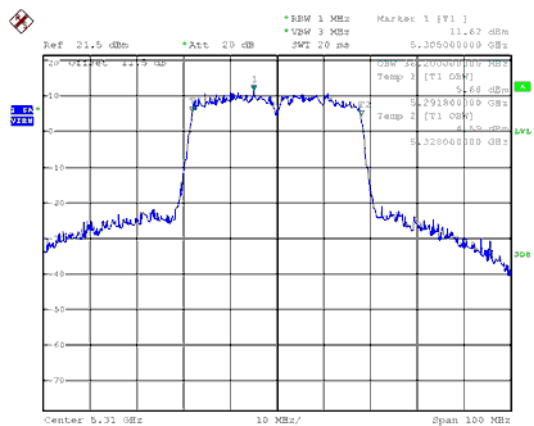


CH140

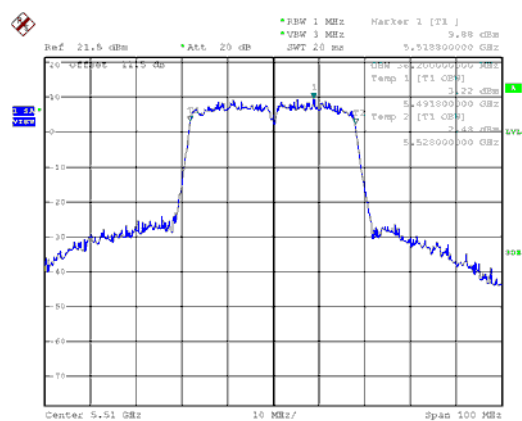




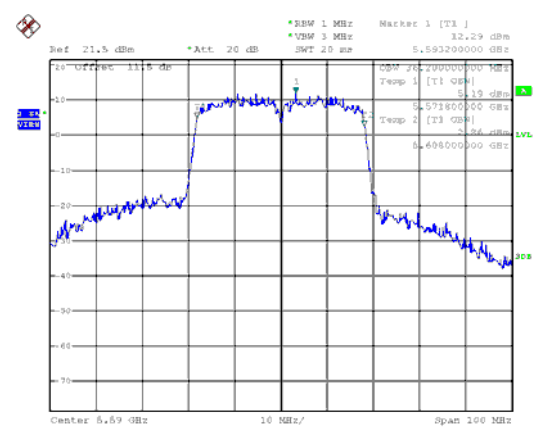
CH62



CH102



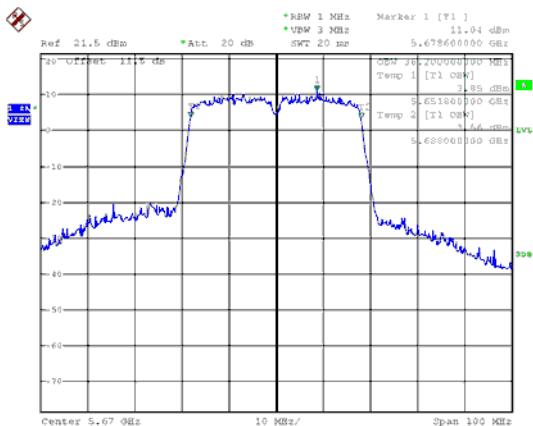
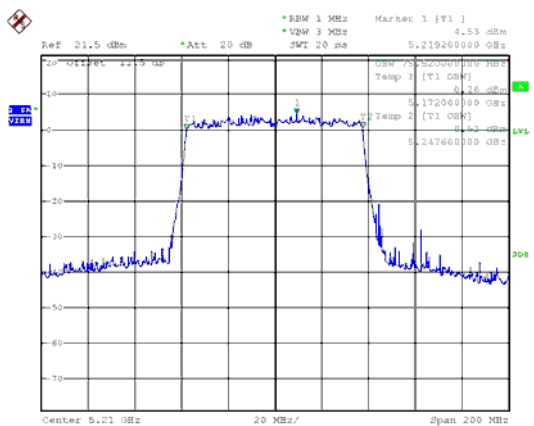
CH118



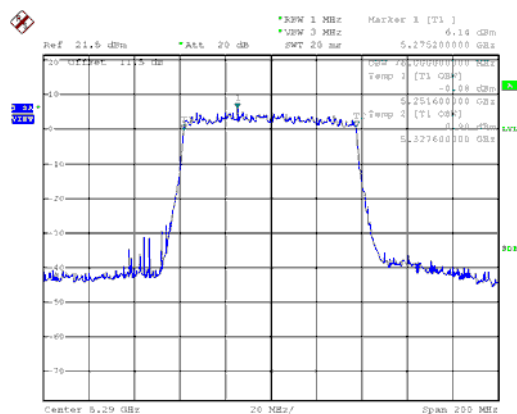


99% Occupied Bandwidth

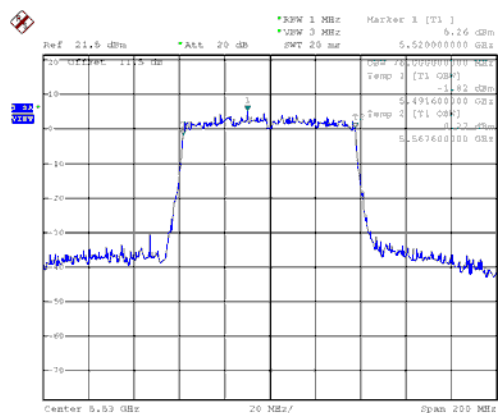
Antenna B

Modulation Mode: 802.11ac VHT40 (13.5Mbps)
CH134Modulation Mode: 11ac VHT80 (29.3Mbps)
CH42

CH58



CH106



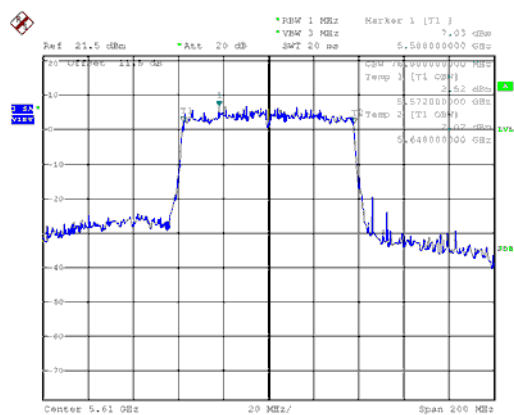


99% Occupied Bandwidth

Antenna B

Modulation Mode: 802.11ac VHT80 (29.3Mbps)

CH122





9. 傳導輸出功率

9.1. 適用標準

依照國家通訊傳播委員會低功率射頻電機技術規範(4.7.3)節功率限制規定如下:

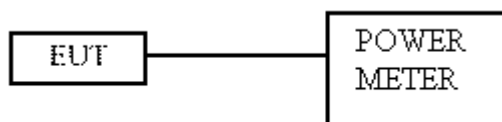
操作於 5.15G-5.25G 頻段者	
☐	供戶外操作使用：最大傳導輸出功率應小於 1W。
☒	供室內操作使用：最大傳導輸出功率應小於 1W。
☐	供固定式點對點操作使用：最大傳導輸出功率應小於 1W。
☐	供用戶端裝置(Client Device)操作使用：最大傳導輸出功率應小於 250mW。
操作於 5.25G-5.35G 與 5.470G-5.725G 頻段者 最大傳導輸出功率應小於 250mW 或 $11\text{dBm} + 10\log B$ (B 是 26dB 發射頻寬，單位 MHz) 之較小者。	
操作於 5.725G-5.850G 頻段者 最大傳導輸出功率應小於 1W。	

9.2. 測試方法

The transmitter output is connected to a power meter.

Measurements may be performed using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

9.3. 測試配置





9.4. 測試結果及數據 (Non-Beamforming)

In the 5.2GHz Band

Modulation Type	Data Rate	Channel	Frequency (MHz)	Measured value of each antenna port (dBm)		Total power (dBm)	Total power (mW)	NCC Limit (dBm)
				ANT A	ANT B			
802.11a	6 Mbps	36	5180	18.67	18.88	21.79	150.889	30
	6 Mbps	44	5220	18.83	18.91	21.88	154.187	30
	6 Mbps	48	5240	18.68	18.98	21.84	152.858	30
802.11n HT20	MCS 0	36	5180	18.44	18.65	21.56	143.106	30
	MCS 0	44	5220	18.55	18.57	21.57	143.559	30
	MCS 0	48	5240	18.51	18.75	21.64	145.947	30
802.11n HT40	MCS 0	38	5190	14.87	14.92	17.91	61.736	30
	MCS 0	46	5230	18.68	18.86	21.78	150.703	30
802.11ac VHT20	MCS0-NSS1	36	5180	18.47	18.70	21.60	144.438	30
	MCS0-NSS1	44	5220	18.64	18.65	21.66	146.396	30
	MCS0-NSS1	48	5240	18.57	18.87	21.73	149.035	30
802.11ac VHT40	MCS0-NSS1	38	5190	14.91	14.94	17.94	62.163	30
	MCS0-NSS1	46	5230	18.73	18.97	21.86	153.531	30
802.11ac VHT80	MCS0-NSS1	42	5210	13.26	13.76	16.53	44.952	30

In the 5.3GHz Band

Modulation Type	Data Rate	Channel	Frequency (MHz)	Measured value of each antenna port (dBm)		Total Power (dBm)	Total Power (mW)	NCC Limit (dBm)
				ANT A	ANT B			
802.11a	6 Mbps	52	5260	18.52	18.35	21.45	139.513	24.00
	6 Mbps	60	5300	18.98	18.41	21.71	148.410	24.00
	6 Mbps	64	5320	18.87	18.16	21.54	142.554	24.00
802.11n HT20	MCS 0	52	5260	18.43	18.29	21.37	137.115	24.00
	MCS 0	60	5300	18.75	18.21	21.50	141.211	24.00
	MCS 0	64	5320	18.96	18.36	21.68	147.253	24.00
802.11n HT40	MCS 0	54	5270	18.88	18.33	21.62	145.345	24.00
	MCS 0	62	5310	18.18	17.62	20.92	123.575	24.00
802.11ac VHT20	MCS0-NSS1	52	5260	18.45	18.31	21.39	137.748	24.00
	MCS0-NSS1	60	5300	18.78	18.23	21.52	142.037	24.00
	MCS0-NSS1	64	5320	18.99	18.39	21.71	148.274	24.00
802.11ac VHT40	MCS0-NSS1	54	5270	18.91	18.35	21.65	146.195	24.00
	MCS0-NSS1	62	5310	18.22	17.65	20.95	124.585	24.00
802.11ac VHT80	MCS0-NSS1	58	5290	14.44	14.25	17.36	54.404	24.00

**(Non-Beamforming)****In the 5.5GHz Band**

Modulation Type	Data Rate	Channel	Frequency (MHz)	Measured value of each antenna port (dBm)		Total Power (dBm)	Total Power (mW)	NCC Limit (dBm)
				ANT A	ANT B			
802.11a	6 Mbps	100	5500	18.13	17.97	21.06	127.674	24.00
	6 Mbps	120	5600	18.31	18.02	21.18	131.151	24.00
	6 Mbps	140	5700	17.26	17.08	20.18	104.261	24.00
802.11n HT20	MCS 0	100	5500	18.20	17.79	21.01	126.187	24.00
	MCS 0	120	5600	18.48	18.41	21.46	139.812	24.00
	MCS 0	140	5700	17.12	17.00	20.07	101.642	24.00
802.11n HT40	MCS 0	102	5510	15.29	15.34	18.33	68.004	24.00
	MCS 0	118	5590	18.84	18.75	21.81	151.549	24.00
	MCS 0	134	5670	17.18	17.11	20.16	103.644	24.00
802.11ac VHT20	MCS0-NSS1	100	5500	18.23	17.82	21.04	127.061	24.00
	MCS0-NSS1	120	5600	18.52	18.44	21.49	140.945	24.00
	MCS0-NSS1	140	5700	17.15	17.02	20.10	102.230	24.00
802.11ac VHT40	MCS0-NSS1	102	5510	15.31	15.37	18.35	68.398	24.00
	MCS0-NSS1	118	5590	18.88	18.79	21.85	152.951	24.00
	MCS0-NSS1	134	5670	17.21	17.13	20.18	104.243	24.00
802.11ac VHT80	MCS0-NSS1	106	5530	13.86	13.77	16.83	48.145	24.00
	MCS0-NSS1	122	5610	16.68	16.66	19.68	92.903	24.00

In the 5.8GHz Band

Modulation Type	Data Rate	Channel	Frequency (MHz)	Measured value of each antenna port (dBm)		Total power (dBm)	Total power (mW)	NCC Limit (dBm)
				ANT A	ANT B			
802.11a	6 Mbps	149	5745	18.55	18.43	21.50	141.277	30
	6 Mbps	157	5785	18.66	18.58	21.63	145.562	30
	6 Mbps	165	5825	18.83	18.55	21.70	147.998	30
802.11n HT20	MCS 0	149	5745	18.87	18.52	21.71	148.212	30
	MCS 0	157	5785	18.90	18.63	21.78	150.570	30
	MCS 0	165	5825	18.91	18.80	21.87	153.661	30
802.11n HT40	MCS 0	151	5755	18.94	18.85	21.91	155.079	30
	MCS 0	159	5795	18.96	18.78	21.88	154.214	30
802.11ac VHT20	MCS0-NSS1	149	5745	18.92	18.58	21.76	150.094	30
	MCS0-NSS1	157	5785	18.94	18.66	21.81	151.794	30
	MCS0-NSS1	165	5825	18.98	18.83	21.92	155.451	30
802.11ac VHT40	MCS0-NSS1	151	5755	18.97	18.89	21.94	156.332	30
	MCS0-NSS1	159	5795	18.98	18.90	21.95	156.693	30
802.11ac VHT80	MCS0-NSS1	155	5775	18.24	18.51	21.39	137.638	30

**(Beamforming)****In the 5.2GHz Band**

Modulation Type	Data Rate	Channel	Frequency (MHz)	Measured value of each antenna port (dBm)		Total power (dBm)	Total power (mW)	NCC Limit (dBm)
				ANT A	ANT B			
802.11a	6 Mbps	36	5180	15.66	15.87	18.78	75.450	29.68
	6 Mbps	44	5220	15.82	15.90	18.87	77.099	29.68
	6 Mbps	48	5240	15.67	15.97	18.83	76.434	29.68
802.11n HT20	MCS 0	36	5180	15.43	15.64	18.55	71.558	29.68
	MCS 0	44	5220	15.54	15.56	18.56	71.785	29.68
	MCS 0	48	5240	15.50	15.74	18.63	72.979	29.68
802.11n HT40	MCS 0	38	5190	11.86	11.91	14.90	30.870	29.68
	MCS 0	46	5230	15.67	15.85	18.77	75.357	29.68
802.11ac VHT20	MCS0-NSS1	36	5180	15.46	15.69	18.59	72.224	29.68
	MCS0-NSS1	44	5220	15.63	15.64	18.65	73.203	29.68
	MCS0-NSS1	48	5240	15.56	15.86	18.72	74.523	29.68
802.11ac VHT40	MCS0-NSS1	38	5190	11.90	11.93	14.93	31.084	29.68
	MCS0-NSS1	46	5230	15.72	15.96	18.85	76.771	29.68
802.11ac VHT80	MCS0-NSS1	42	5210	10.25	10.75	13.52	22.478	29.68

In the 5.3GHz Band

Modulation Type	Data Rate	Channel	Frequency (MHz)	Measured value of each antenna port (dBm)		Total Power (dBm)	Total Power (mW)	NCC Limit (dBm)
				ANT A	ANT B			
802.11a	6 Mbps	52	5260	15.51	15.34	18.44	69.761	23.64
	6 Mbps	60	5300	15.97	15.40	18.70	74.210	23.64
	6 Mbps	64	5320	15.86	15.15	18.53	71.282	23.64
802.11n HT20	MCS 0	52	5260	15.42	15.28	18.36	68.562	23.64
	MCS 0	60	5300	15.74	15.20	18.49	70.610	23.64
	MCS 0	64	5320	15.95	15.35	18.67	73.632	23.64
802.11n HT40	MCS 0	54	5270	15.87	15.32	18.61	72.678	23.64
	MCS 0	62	5310	15.17	14.61	17.91	61.792	23.64
802.11ac VHT20	MCS0-NSS1	52	5260	15.44	15.30	18.38	68.879	23.64
	MCS0-NSS1	60	5300	15.77	15.22	18.51	71.023	23.64
	MCS0-NSS1	64	5320	15.98	15.38	18.70	74.142	23.64
802.11ac VHT40	MCS0-NSS1	54	5270	15.90	15.34	18.64	73.102	23.64
	MCS0-NSS1	62	5310	15.21	14.64	17.94	62.297	23.64
802.11ac VHT80	MCS0-NSS1	58	5290	11.43	11.24	14.35	27.204	23.64

**(Beamforming)****In the 5.5GHz Band**

Modulation Type	Data Rate	Channel	Frequency (MHz)	Measured value of each antenna port (dBm)		Total Power (dBm)	Total Power (mW)	NCC Limit (dBm)
				ANT A	ANT B			
802.11a	6 Mbps	100	5500	15.12	14.96	18.05	63.842	23.69
	6 Mbps	120	5600	15.30	15.01	18.17	65.580	23.69
	6 Mbps	140	5700	14.25	14.07	17.17	52.134	23.69
802.11n HT20	MCS 0	100	5500	15.19	14.78	18.00	63.098	23.69
	MCS 0	120	5600	15.47	15.40	18.45	69.911	23.69
	MCS 0	140	5700	14.11	13.99	17.06	50.824	23.69
802.11n HT40	MCS 0	102	5510	12.28	12.33	15.32	34.005	23.69
	MCS 0	118	5590	15.83	15.74	18.80	75.780	23.69
	MCS 0	134	5670	14.17	14.10	17.15	51.826	23.69
802.11ac VHT20	MCS0-NSS1	100	5500	15.22	14.81	18.03	63.535	23.69
	MCS0-NSS1	120	5600	15.51	15.43	18.48	70.477	23.69
	MCS0-NSS1	140	5700	14.14	14.01	17.09	51.119	23.69
802.11ac VHT40	MCS0-NSS1	102	5510	12.30	12.36	15.34	34.201	23.69
	MCS0-NSS1	118	5590	15.87	15.78	18.84	76.481	23.69
	MCS0-NSS1	134	5670	14.20	14.12	17.17	52.125	23.69
802.11ac VHT80	MCS0-NSS1	106	5530	10.85	10.76	13.82	24.074	23.69
	MCS0-NSS1	122	5610	13.67	13.65	16.67	46.455	23.69

In the 5.8GHz Band

Modulation Type	Data Rate	Channel	Frequency (MHz)	Measured value of each antenna port (dBm)		Total power (dBm)	Total power (mW)	NCC Limit (dBm)
				ANT A	ANT B			
802.11a	6 Mbps	149	5745	15.54	15.42	18.49	70.643	29.29
	6 Mbps	157	5785	15.65	15.57	18.62	72.786	29.29
	6 Mbps	165	5825	15.82	15.54	18.69	74.004	29.29
802.11n HT20	MCS 0	149	5745	15.86	15.51	18.70	74.111	29.29
	MCS 0	157	5785	15.89	15.62	18.77	75.290	29.29
	MCS 0	165	5825	15.90	15.79	18.86	76.836	29.29
802.11n HT40	MCS 0	151	5755	15.93	15.84	18.90	77.545	29.29
	MCS 0	159	5795	15.95	15.77	18.87	77.112	29.29
802.11ac VHT20	MCS0-NSS1	149	5745	15.91	15.57	18.75	75.052	29.29
	MCS0-NSS1	157	5785	15.93	15.65	18.80	75.902	29.29
	MCS0-NSS1	165	5825	15.97	15.82	18.91	77.731	29.29
802.11ac VHT40	MCS0-NSS1	151	5755	15.96	15.88	18.93	78.171	29.29
	MCS0-NSS1	159	5795	15.97	15.89	18.94	78.352	29.29
802.11ac VHT80	MCS0-NSS1	155	5775	15.23	15.50	18.38	68.824	29.29



10. 最大功率頻譜密度

10.1. 適用標準

依照國家通訊傳播委員會低功率射頻電機技術規範(4.7.3)節功率限制規定如下:

操作於 5.15G-5.25G 頻段者	
☐	供戶外操作使用：在任何 1MHz 頻帶中最大功率頻譜密度應小於或等於 17dBm。
☒	供室內操作使用：在任何 1MHz 頻帶中最大功率頻譜密度應小於或等於 17dBm。
☐	供固定式點對點操作使用：在任何 1MHz 頻帶中最大功率頻譜密度應小於或等 17dBm。
☐	供用戶端裝置(Client Device)操作使用：在任何 1MHz 頻帶中最大功率頻譜密度應小於或等於 11dBm。
操作於 5.25G-5.35G 與 5.470G-5.725G 頻段者 在任何 1MHz 頻帶中最大功率頻譜密度應小於或等於 11Bm。	
操作於 5.725G-5.850G 頻段者 在任何 500KHz 頻帶中最大功率頻譜密度應小於或等於 30Bm。	

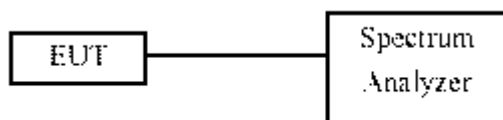


10.2.測試方法

依照KDB 789033 D02 General UNII Test Procedures New Rules測試方法如下

For 5150~5250 MHz, 5250~5350 MHz, 5470~5725 MHz	
☒	Method SA-1 1. Set RBW = 1 MHz, VBW = 3 MHz, Sweep time = auto, Detector = RMS. 2. Trace average 100 traces. 3. Use the peak marker function to determine the maximum amplitude level.
☒	Method SA-2 Alternative 1. Set RBW = 1 MHz, VBW = 3 MHz, Detector = RMS. 2. Set sweep time $\geq 10 * (\text{number of points in sweep}) * (\text{total on/off period of the transmitted signal})$. 3. Perform a single sweep. 4. Use the peak marker function to determine the maximum amplitude level. 5. Add $10 \log(1/x)$, where x is the duty cycle.
For 5725~5850 MHz	
☒	Method SA-1 1. Set RBW = 1 MHz, VBW = 3 MHz, Sweep time = auto, Detector = RMS. 2. Trace average 100 traces. 3. Use the peak marker function to determine the maximum amplitude level. 4. Add $10 \log(500\text{KHz}/1000\text{KHz})$
☒	Method SA-2 Alternative 1. Set RBW = 1 MHz, VBW = 3 MHz, Detector = RMS. 2. Set sweep time $\geq 10 * (\text{number of points in sweep}) * (\text{total on/off period of the transmitted signal})$. 3. Perform a single sweep. 4. Use the peak marker function to determine the maximum amplitude level. 5. Add $10 \log(1/x)$, where x is the duty cycle 6. Add $10 \log(500\text{KHz}/1000\text{KHz})$

10.3.測試配置





10.4. 測試結果及數據

In the 5.2GHz Band

Modulation Mode	CH	Freq. (MHz)	Meas PPSS (dBm/MHz)		Sum chain (dBm)	Duty Cycle CF(dB)	Total Corr'd PPSS (dBm/MHz)	PPSS Limit (dBm/MHz)
			ANT A	ANT B				
802.11a	36	5180	6.29	6.66	9.49	0.00	9.49	16.68
	44	5220	6.78	7.18	9.99	0.00	9.99	16.68
	48	5240	6.68	7.31	10.02	0.00	10.02	16.68
802.11ac VHT20	36	5180	5.98	6.03	9.02	0.00	9.02	16.68
	44	5220	6.47	6.55	9.52	0.00	9.52	16.68
	48	5240	6.43	6.70	9.58	0.00	9.58	16.68
802.11ac VHT40	38	5190	-0.72	-0.59	2.36	0.00	2.36	16.68
	46	5230	3.62	3.83	6.74	0.00	6.74	16.68
802.11ac VHT80	42	5210	-5.38	-4.67	-2.00	0.15	-1.85	16.68

In the 5.3GHz Band

Modulation Mode	CH	Freq. (MHz)	Meas PPSS (dBm/MHz)		Sum chain (dBm)	Duty Cycle CF(dB)	Total Corr'd PPSS (dBm/MHz)	PPSS Limit (dBm/MHz)
			ANT A	ANT B				
802.11a	52	5260	7.18	7.25	10.23	0.00	10.23	10.64
	60	5300	7.37	7.10	10.25	0.00	10.25	10.64
	64	5320	7.16	6.74	9.97	0.00	9.97	10.64
802.11ac VHT20	52	5260	6.78	6.86	9.83	0.00	9.83	10.64
	60	5300	6.99	6.39	9.71	0.00	9.71	10.64
	64	5320	7.43	6.62	10.05	0.00	10.05	10.64
802.11ac VHT40	54	5270	4.43	4.01	7.24	0.00	7.24	10.64
	62	5310	3.81	3.10	6.48	0.00	6.48	10.64
802.11ac VHT80	58	5290	-3.41	-3.36	-0.37	0.15	-0.22	10.64

**In the 5.5GHz Band**

Modulation Mode	CH	Freq. (MHz)	Meas PPSP (dBm/MHz)		Sum chain (dBm)	Duty Cycle CF(dB)	Total Corr'd PPSP (dBm/MHz)	PPSP Limit (dBm/MHz)
			ANT A	ANT B				
802.11a	100	5500	7.69	7.37	10.54	0.00	10.54	10.69
	120	5600	7.70	7.44	10.58	0.00	10.58	10.69
	140	5700	6.22	6.03	9.14	0.00	9.14	10.69
802.11ac VHT20	100	5500	7.34	7.00	10.18	0.00	10.18	10.69
	120	5600	7.56	7.32	10.45	0.00	10.45	10.69
	140	5700	5.79	5.64	8.73	0.00	8.73	10.69
802.11ac VHT40	102	5510	1.79	1.46	4.64	0.00	4.64	10.69
	118	5590	5.26	5.16	8.22	0.00	8.22	10.69
	134	5670	3.13	3.05	6.10	0.00	6.10	10.69
802.11ac VHT80	106	5530	-3.00	-3.16	-0.07	0.15	0.08	10.69

In the 5.8GHz Band

Modulation Mode	CH	Freq. (MHz)	Meas PPSP (dBm/MHz)		Sum chain (dBm)	Duty Cycle CF(dB)	10log (500KHz/RBW) CF (dB)	Total Corr'd PPSP (dBm/MHz)	PPSP Limit (dBm/MHz)
			ANT A	ANT B					
802.11a	149	5745	6.26	6.08	9.18	0.00	-3.01	6.17	29.29
	157	5785	6.68	6.38	9.54	0.00	-3.01	6.53	29.29
	165	5825	6.53	6.82	9.69	0.00	-3.01	6.68	29.29
802.11ac VHT20	149	5745	6.42	6.08	9.26	0.00	-3.01	6.25	29.29
	157	5785	6.75	6.34	9.56	0.00	-3.01	6.55	29.29
	165	5825	6.51	6.63	9.58	0.00	-3.01	6.57	29.29
802.11ac VHT40	151	5755	3.60	3.74	6.68	0.00	-3.01	3.67	29.29
	159	5795	3.96	3.97	6.98	0.00	-3.01	3.97	29.29
802.11ac VHT80	155	5775	-0.09	-0.20	2.87	0.15	-3.01	0.01	29.29

備註：繪圖資料請參考下頁。

10.5. 結果判定

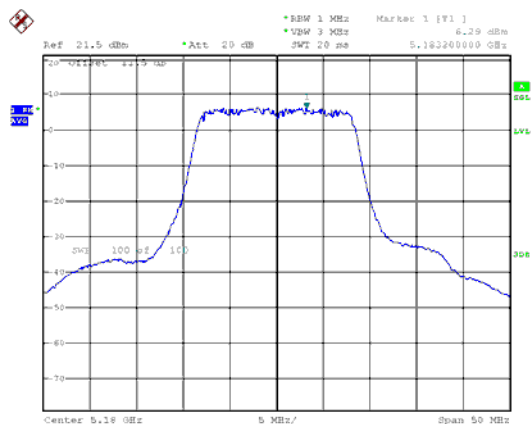
高、中、低頻段的數值皆低於限制值要求，合乎標準規定。

**5.2GHz Band, 5.3GHz Band, 5.5GHz Band**

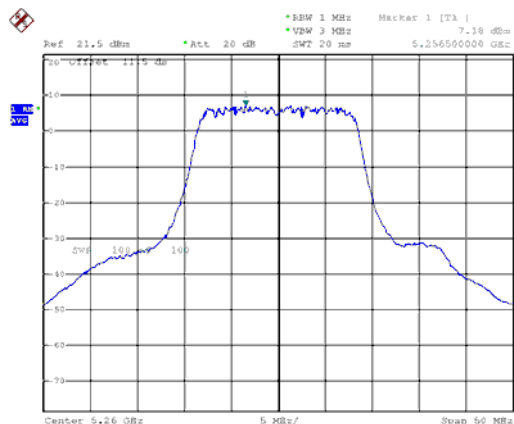
Antenna A

Modulation Mode: 802.11a (6Mbps)

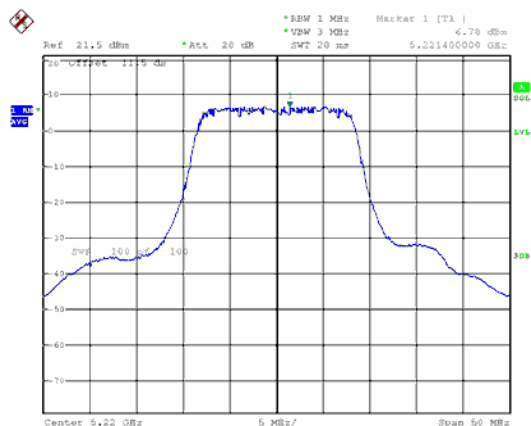
CH36



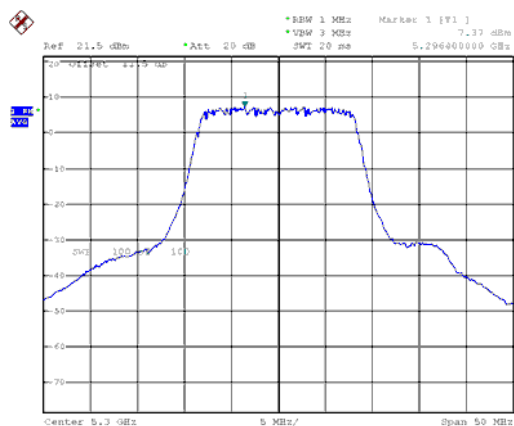
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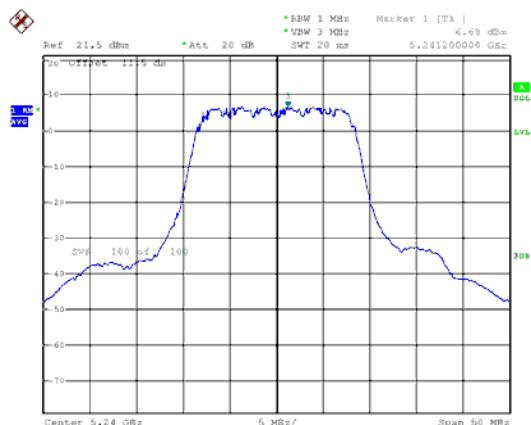
CH44



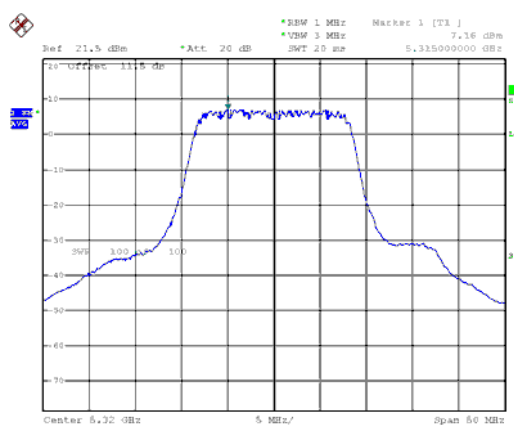
CH60



CH48



CH64



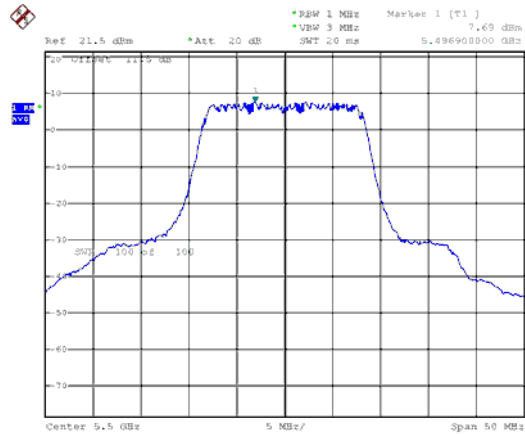


5.2GHz Band, 5.3GHz Band, 5.5GHz Band

Antenna A

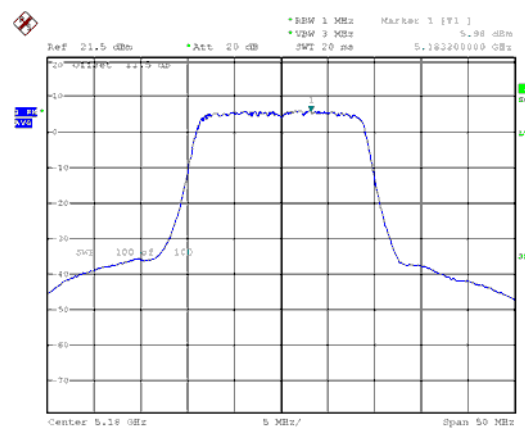
Modulation Mode: 802.11a (6Mbps)

CH100

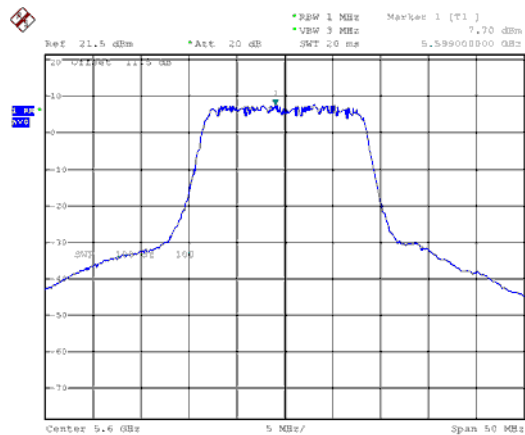


Modulation Mode: 802.11ac VHT20 (6.5Mbps)

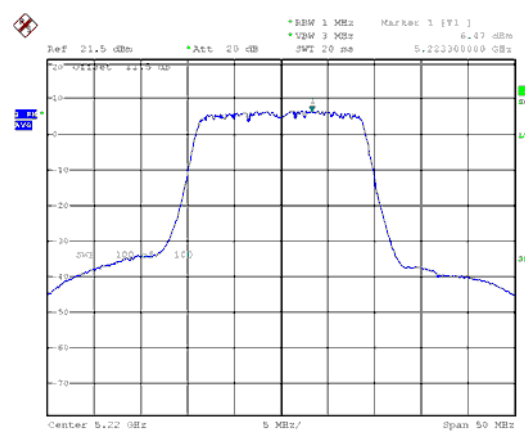
CH36



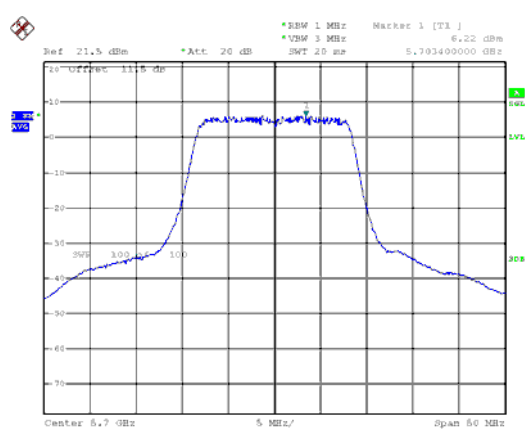
CH120



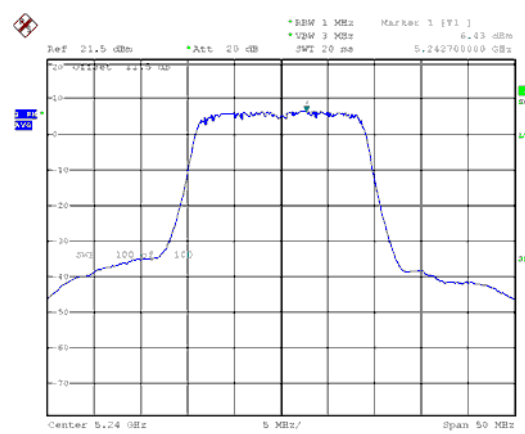
CH44



CH140



CH48



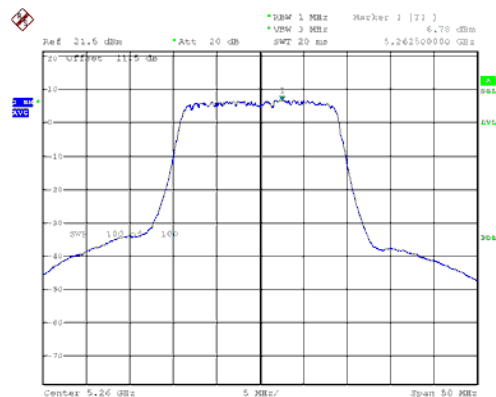


5.2GHz Band, 5.3GHz Band, 5.5GHz Band

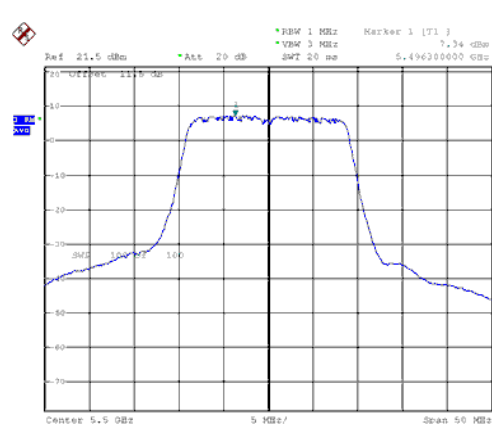
Antenna A

Modulation Mode: 802.11ac VHT20 (6.5Mbps)

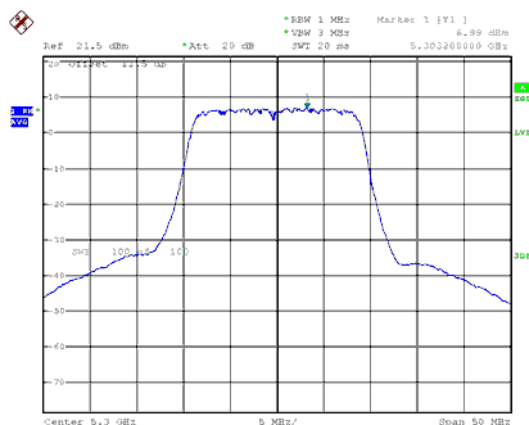
CH52



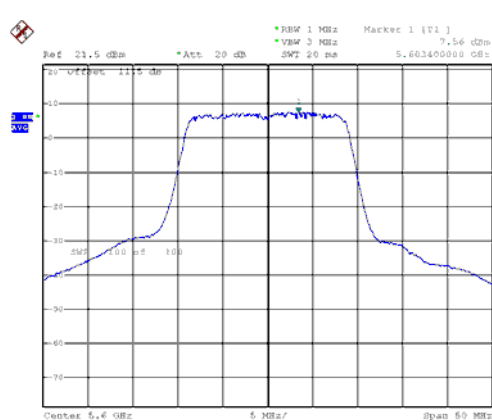
CH100



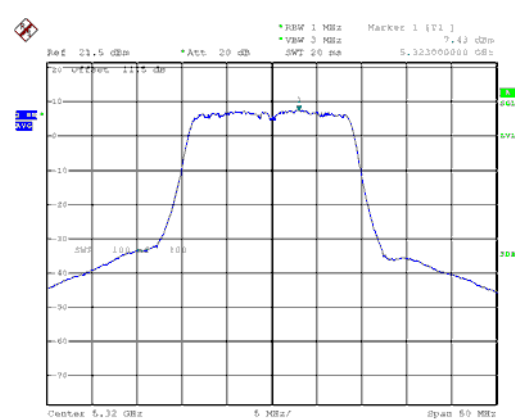
CH60



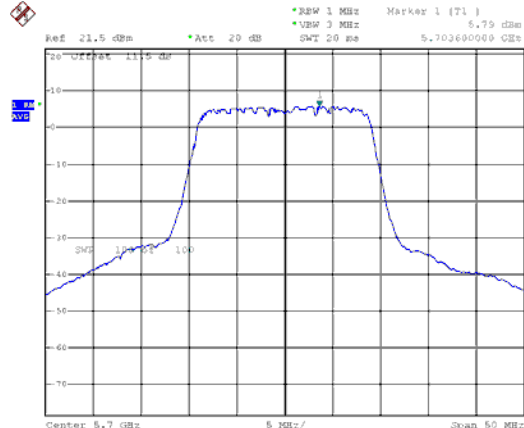
CH120



CH64



CH140



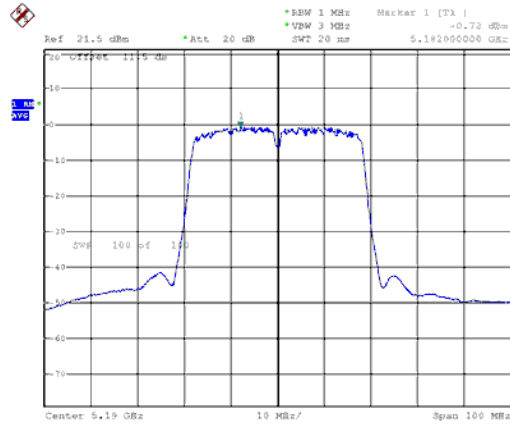


5.2GHz Band, 5.3GHz Band, 5.5GHz Band

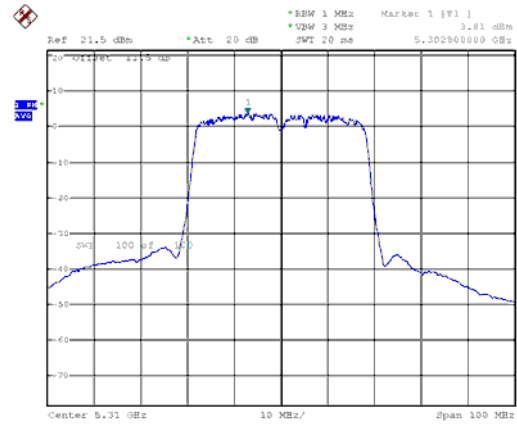
Antenna A

Modulation Mode: 802.11ac VHT40 (13.5Mbps)

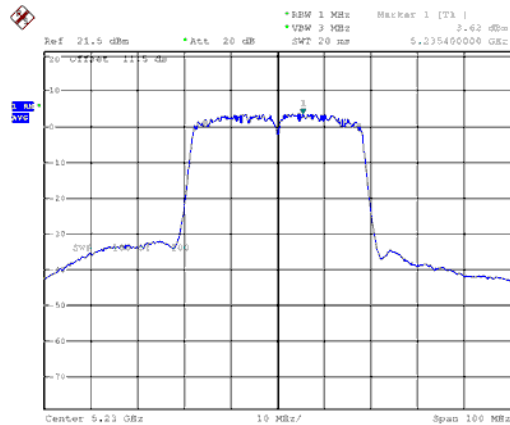
CH38



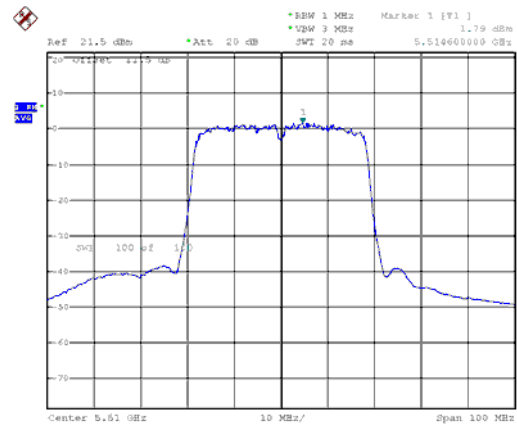
CH62



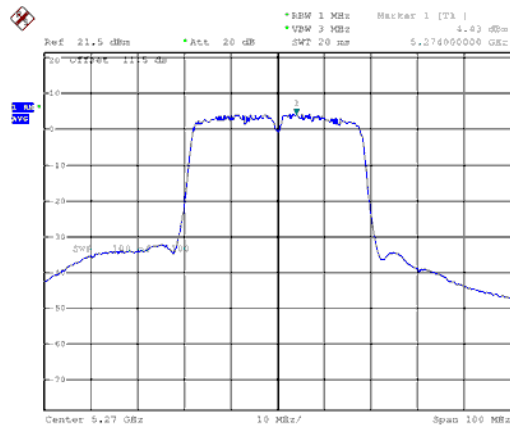
CH46



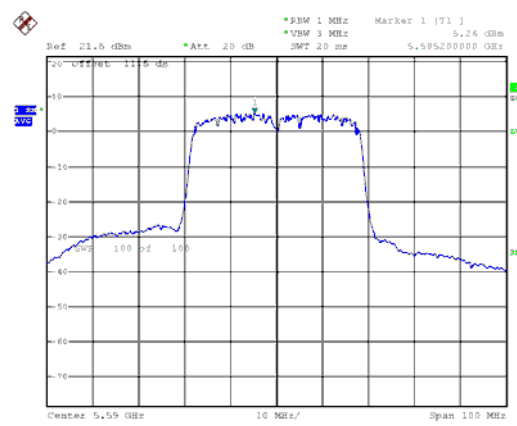
CH102



CH54



CH118



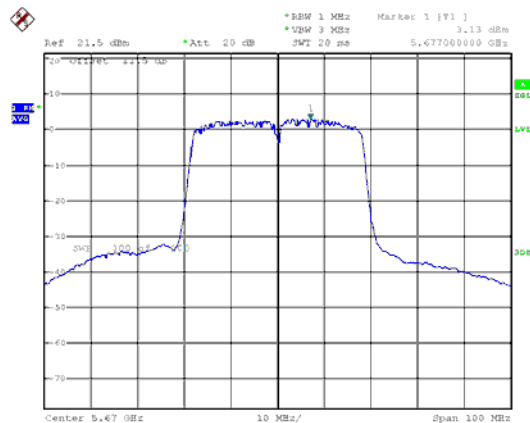


5.2GHz Band, 5.3GHz Band, 5.5GHz Band

Antenna A

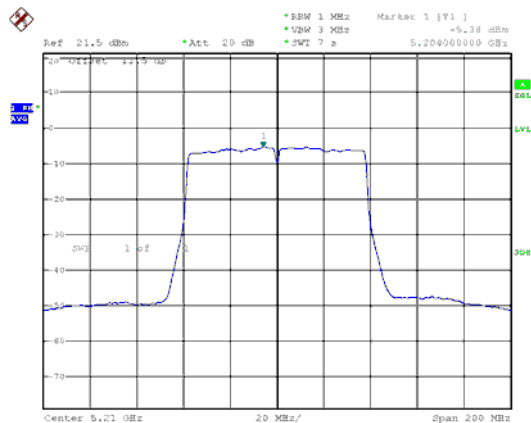
Modulation Mode: 802.11ac VHT40 (13.5Mbps)

CH134

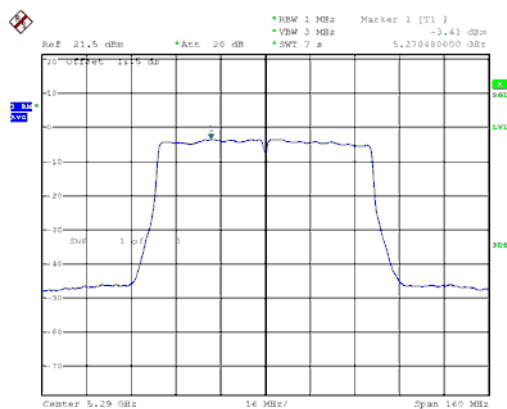


Modulation Mode: 802.11ac VHT80 (29.3Mbps)

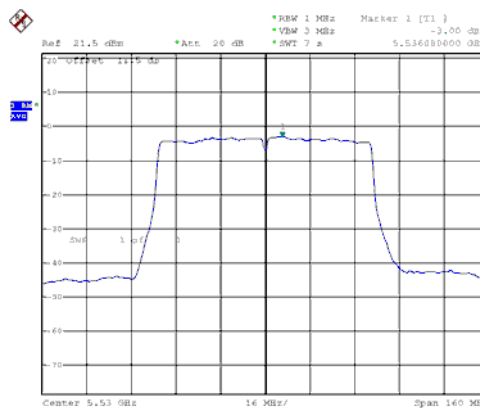
CH42



CH58



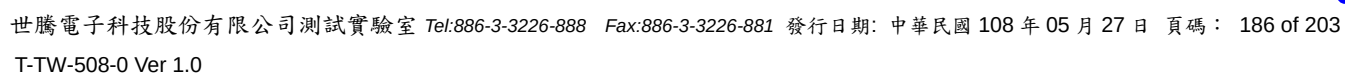
CH106





Antenna A

CH122



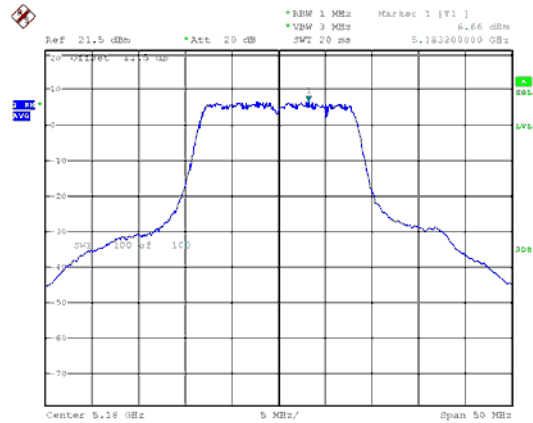


5.2GHz Band, 5.3GHz Band, 5.5GHz Band

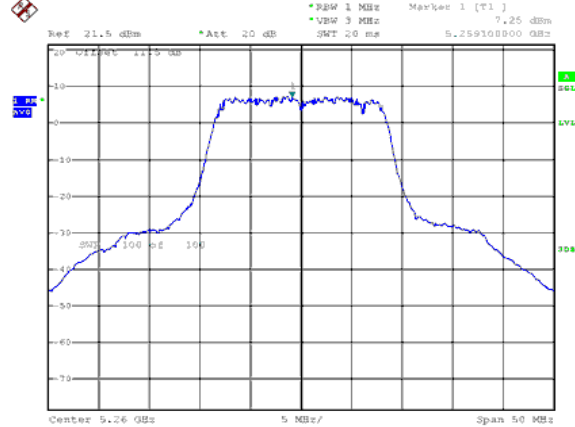
Antenna B

Modulation Mode: 802.11a (6Mbps)

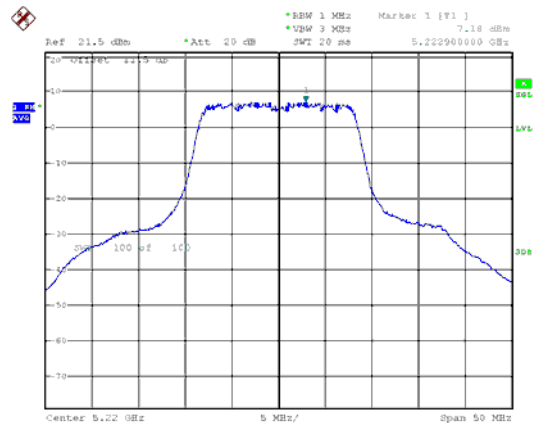
CH36



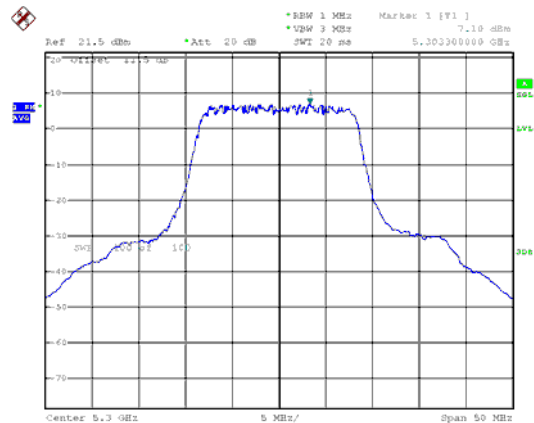
CH52



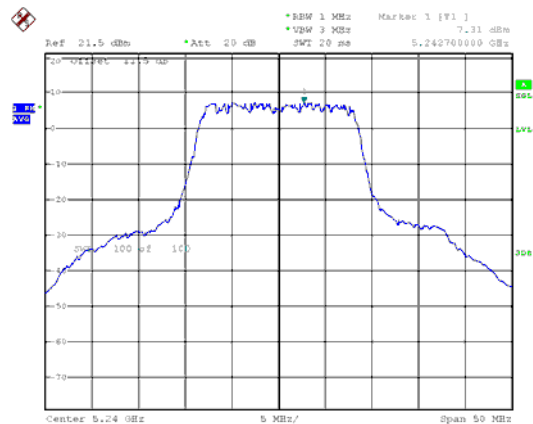
CH44



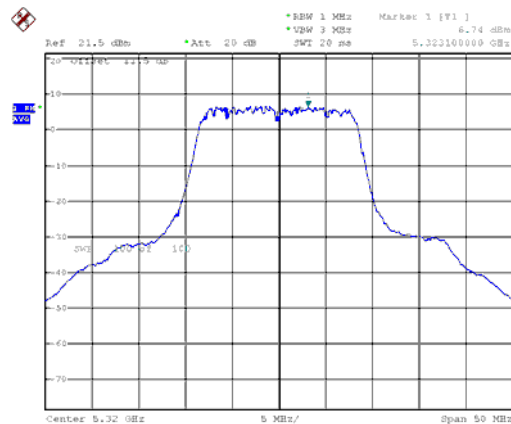
CH60



CH48



CH64



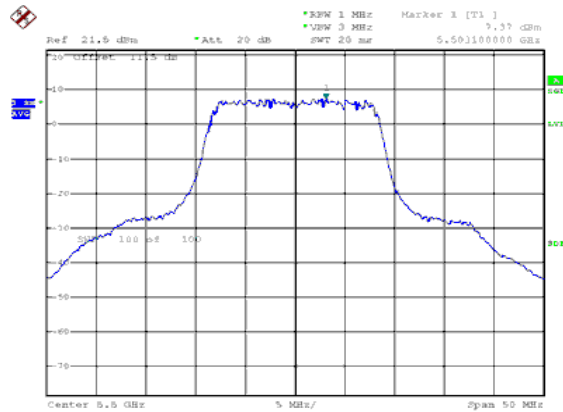


5.2GHz Band, 5.3GHz Band, 5.5GHz Band

Antenna B

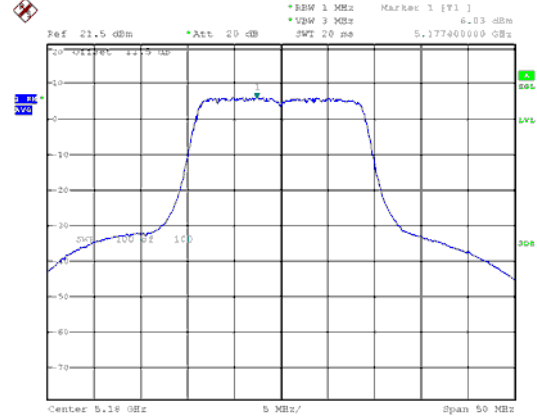
Modulation Mode: 802.11a (6Mbps)

CH100

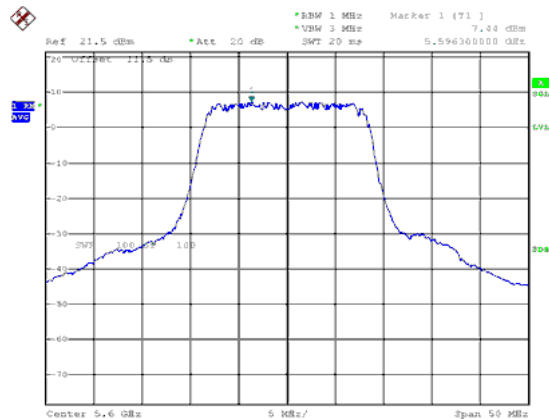


Modulation Mode: 802.11ac VHT20 (6.5Mbps)

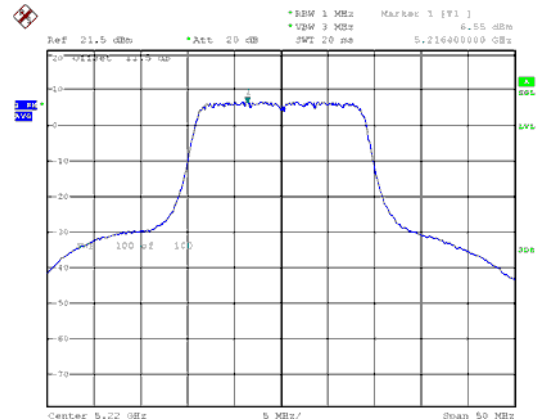
CH36



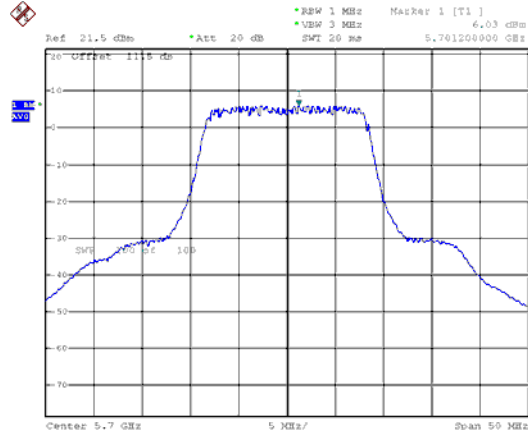
CH120



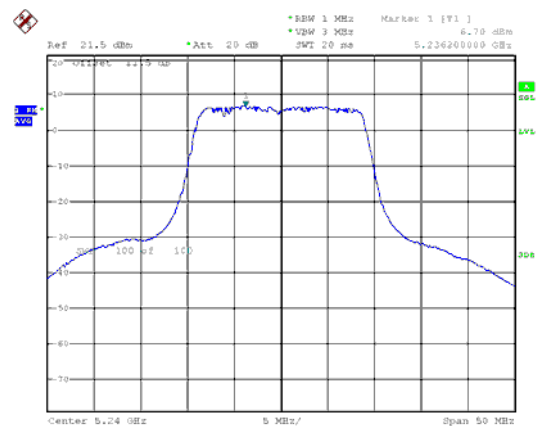
CH44



CH140



CH48



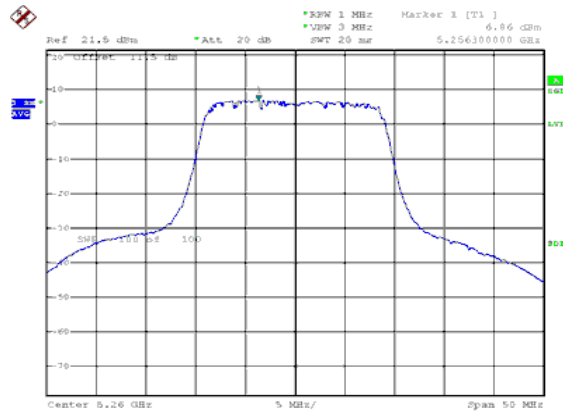


5.2GHz Band, 5.3GHz Band, 5.5GHz Band

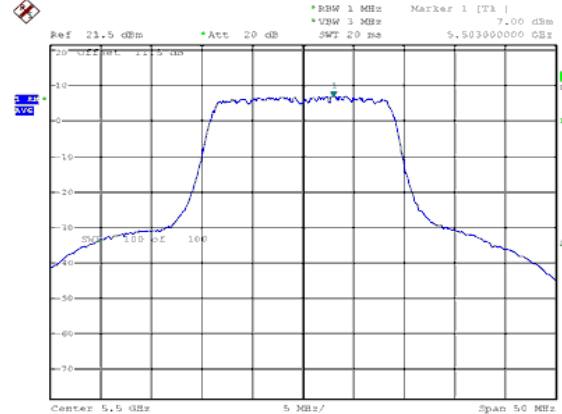
Antenna B

Modulation Mode: 802.11ac VHT20 (6.5Mbps)

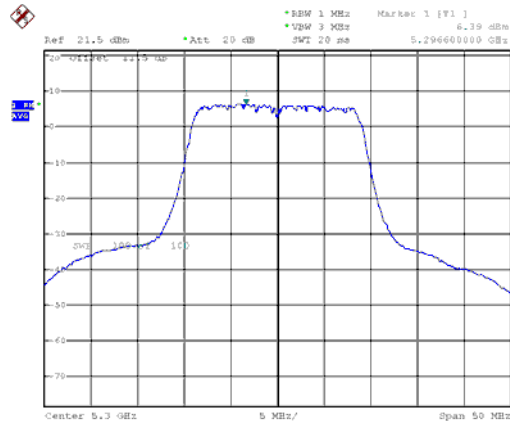
CH52



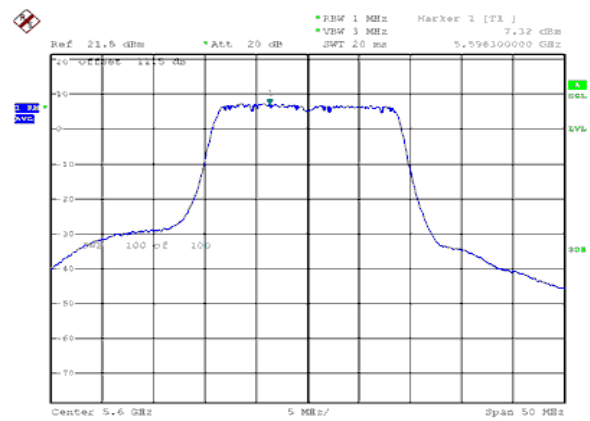
CH100



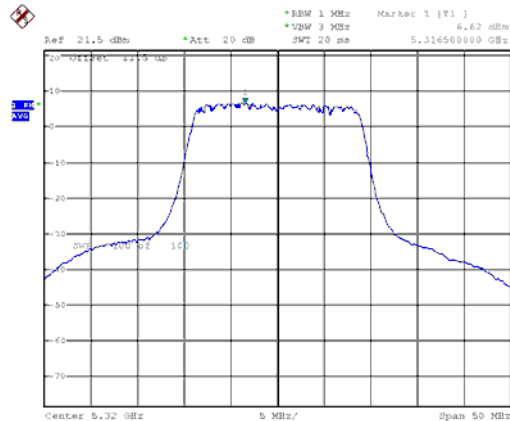
CH60



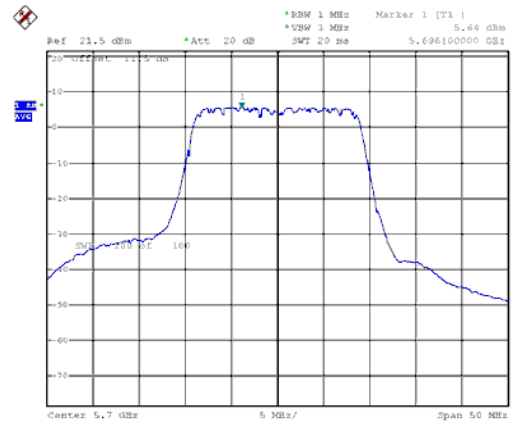
CH120



CH64



CH140



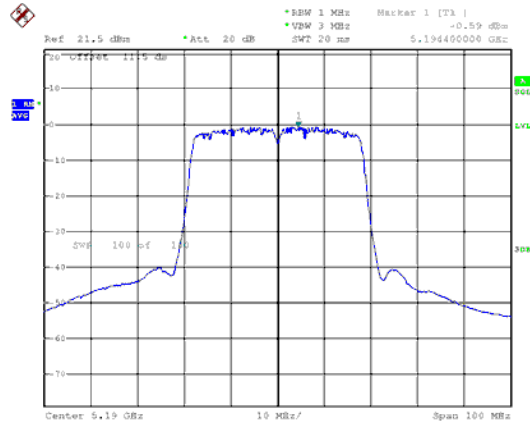


5.2GHz Band, 5.3GHz Band, 5.5GHz Band

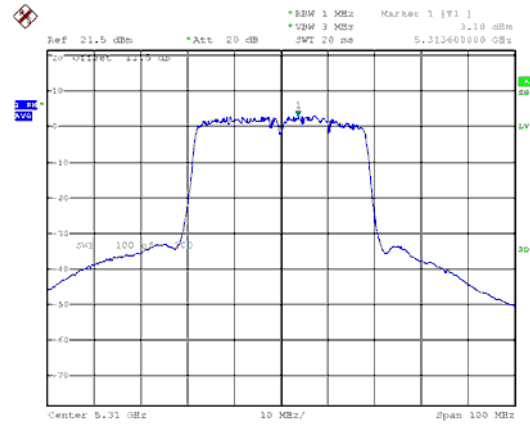
Antenna B

Modulation Mode: 802.11ac VHT40 (13.5Mbps)

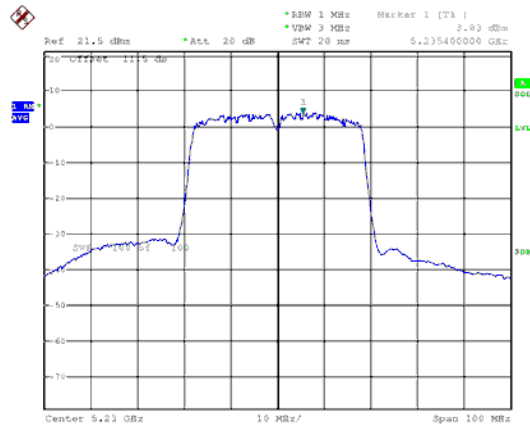
CH38



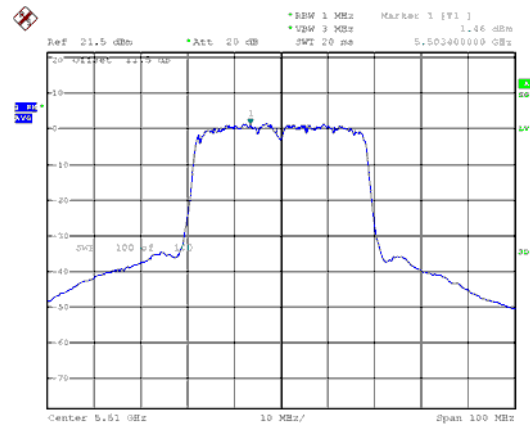
CH62



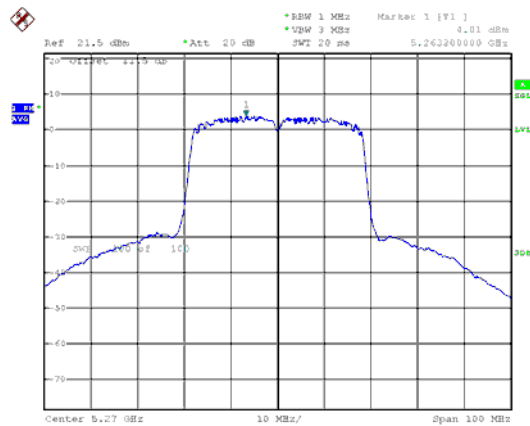
CH46



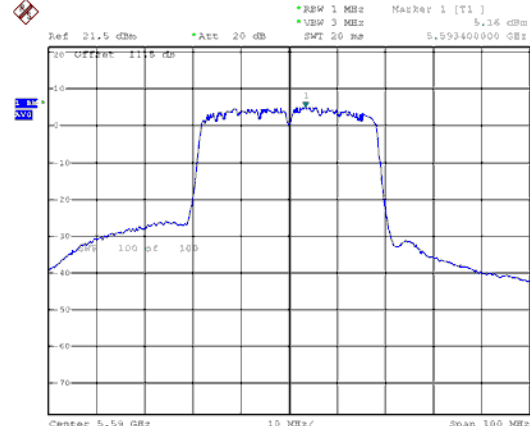
CH102



CH54



CH118



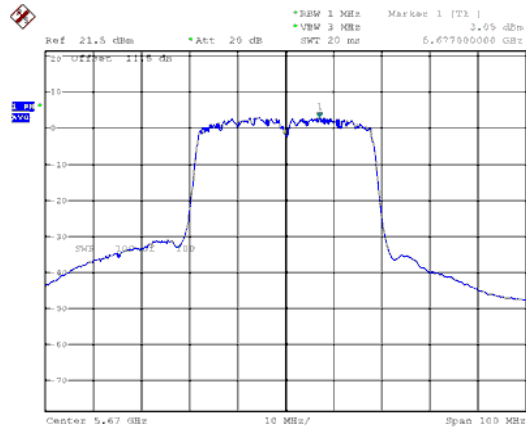


5.2GHz Band, 5.3GHz Band, 5.5GHz Band

Antenna B

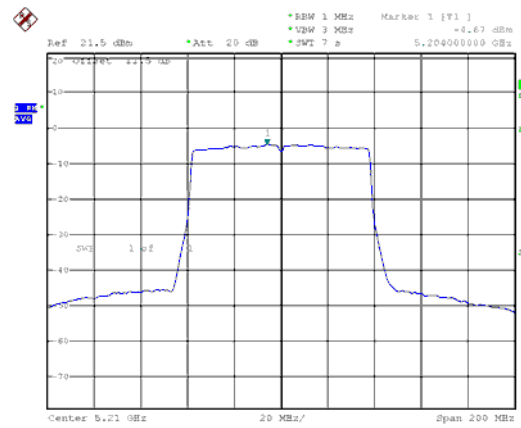
Modulation Mode: 802.11ac VHT40 (13.5Mbps)

CH134

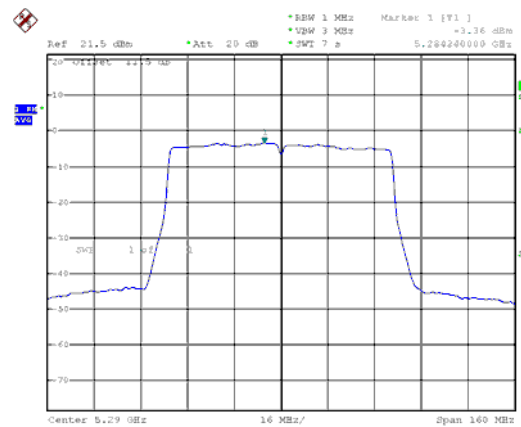


Modulation Mode: 802.11ac VHT80 (29.3Mbps)

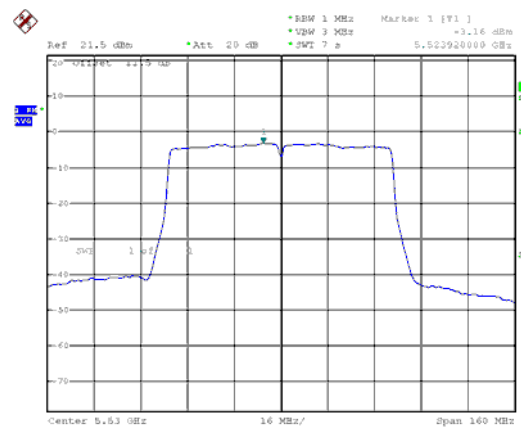
CH42



CH58



CH106



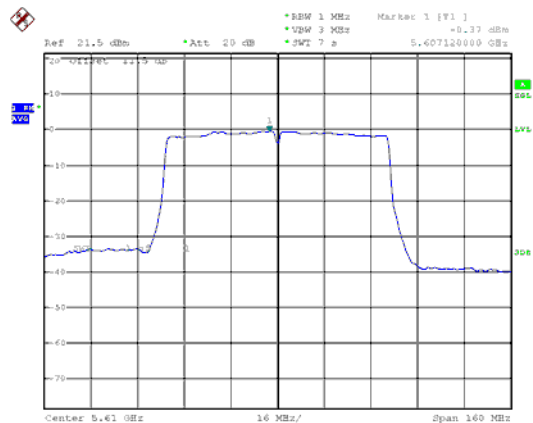


5.2GHz Band, 5.3GHz Band, 5.5GHz Band

Antenna B

Modulation Mode: 802.11ac VHT80 (29.3Mbps)

CH122

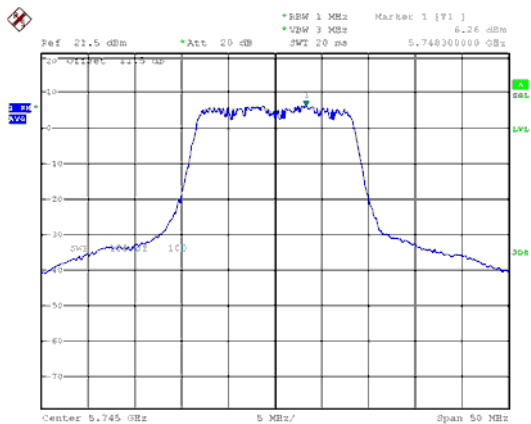


**5.8GHz Band**

Antenna A

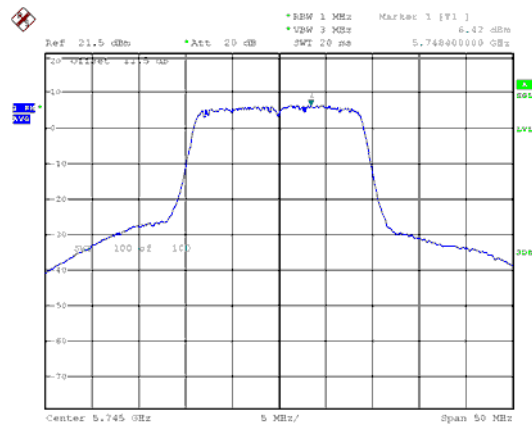
Modulation Mode: 802.11a (6Mbps)

CH149

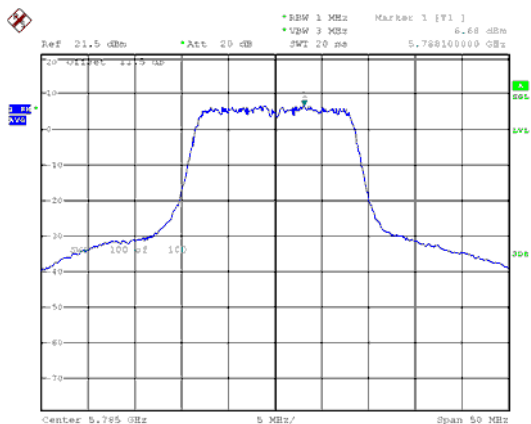


Modulation Mode: 802.11ac, VHT20 (6.5Mbps)

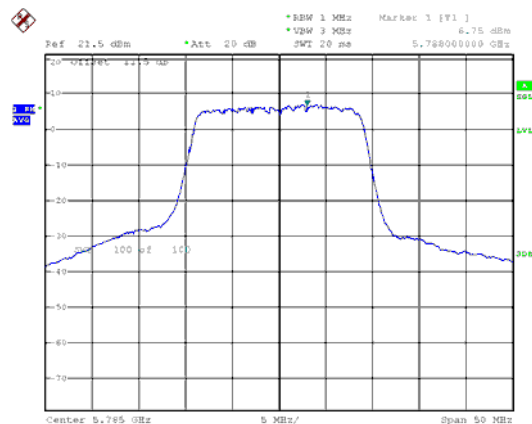
CH149



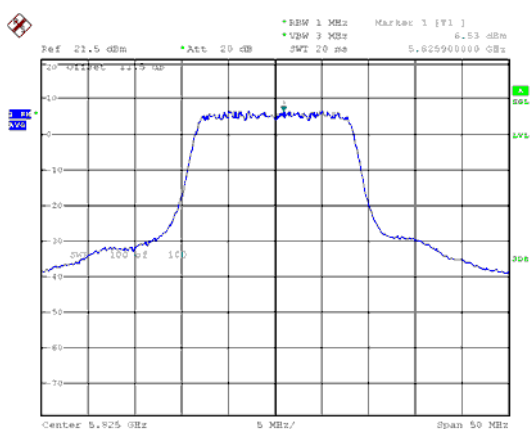
CH157



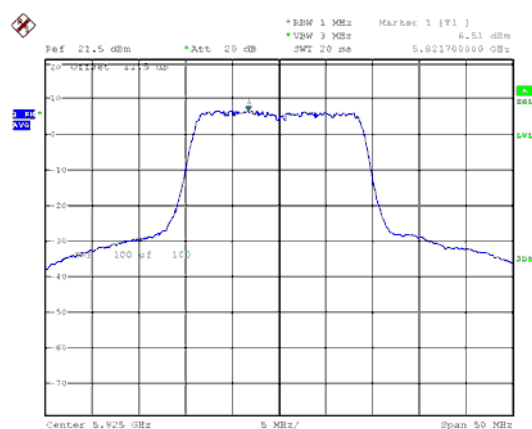
CH157



CH165



CH165



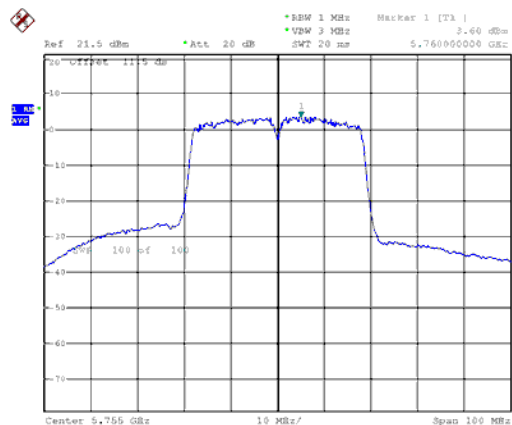


5.8GHz Band

Antenna A

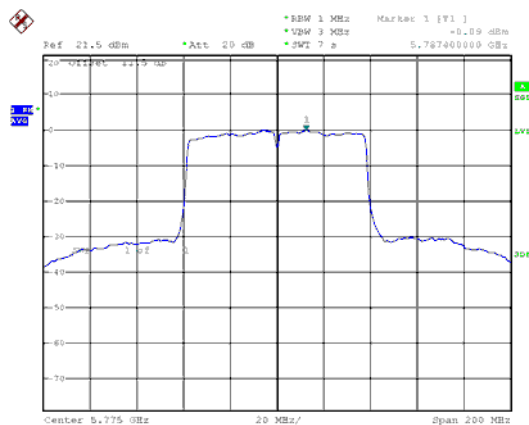
Modulation Mode: 802.11ac, VHT40 (13.5Mbps)

CH151

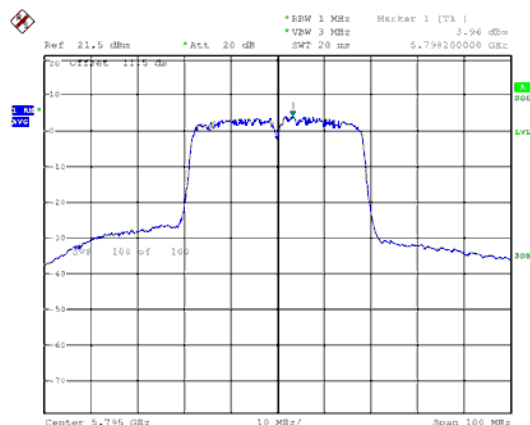


Modulation Mode: 802.11ac, VHT80 (29.3Mbps)

CH155



CH159

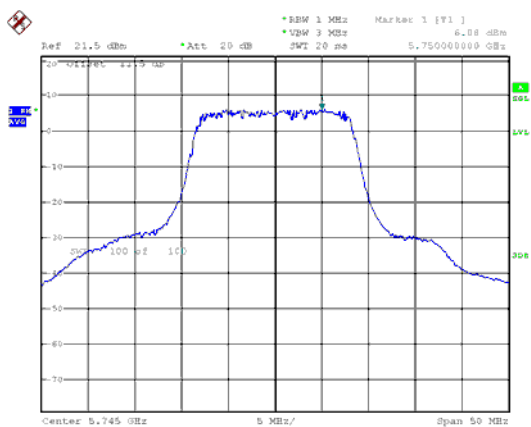


**5.8GHz Band**

Antenna B

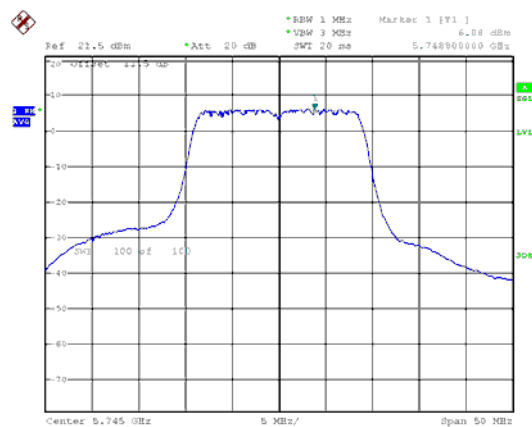
Modulation Mode: 802.11a (6Mbps)

CH149

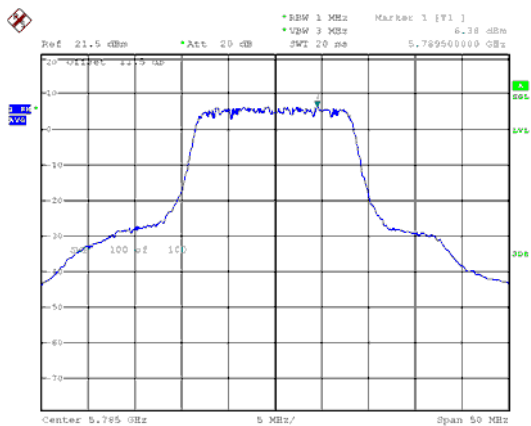


Modulation Mode: 802.11ac, VHT20 (6.5Mbps)

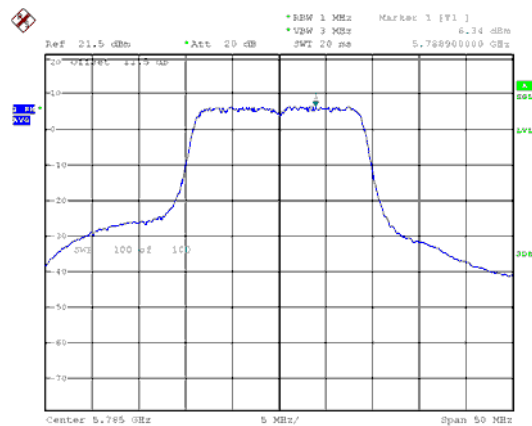
CH149



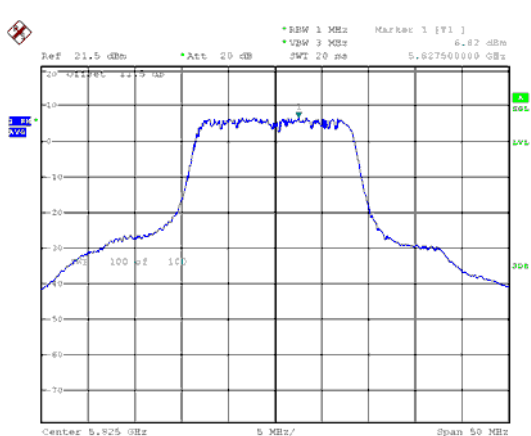
CH157



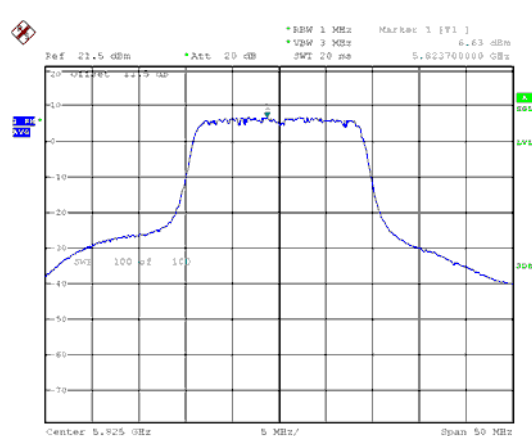
CH157



CH165



CH165



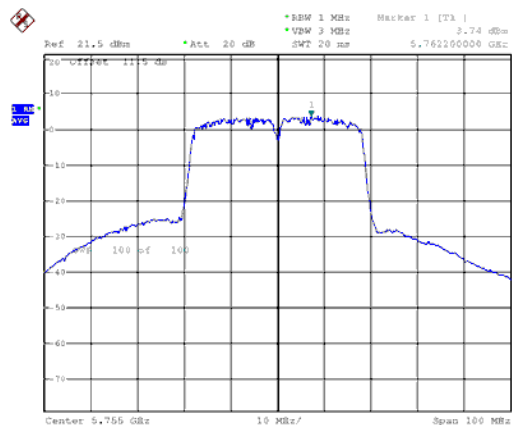


5.8GHz Band

Antenna B

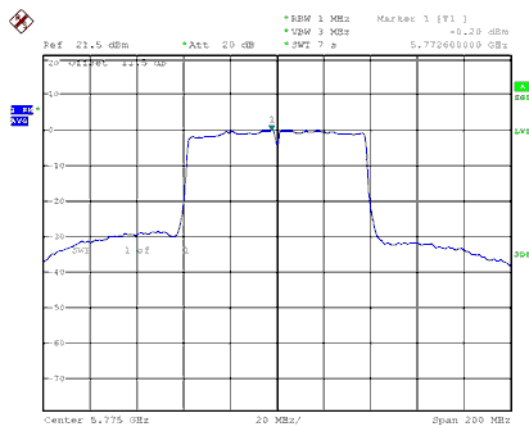
Modulation Mode: 802.11ac, VHT40 (13.5Mbps)

CH151

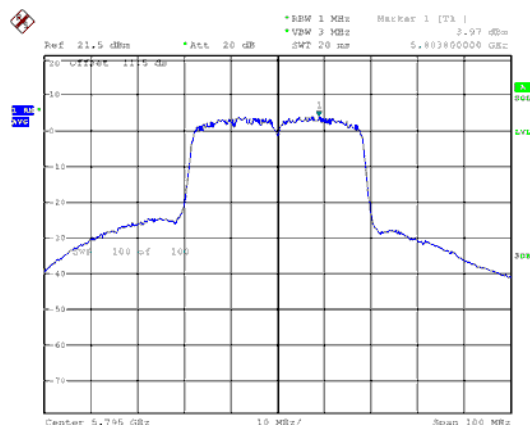


Modulation Mode: 802.11ac, VHT80 (29.3Mbps)

CH155



CH159



11. 頻率容許差度

11.1. 適用標準

應維持在主波頻率之 $\pm 0.01\%$ 以內。在正常供應電壓下，溫度在攝氏 -20°C 至 50°C 間變化；及在 20°C 下，供應電壓在額定值之 $\pm 15\%$ 內變化時。以電池作業者，應以新電池測試，須符合第 5.18 節之規定。

11.2. 測試方法

將 EUT 放置在可控制溫度和濕度設備室中。

發射機輸出連接到頻譜分析儀。

打開 EUT 並將其輸出耦合到頻譜分析儀。

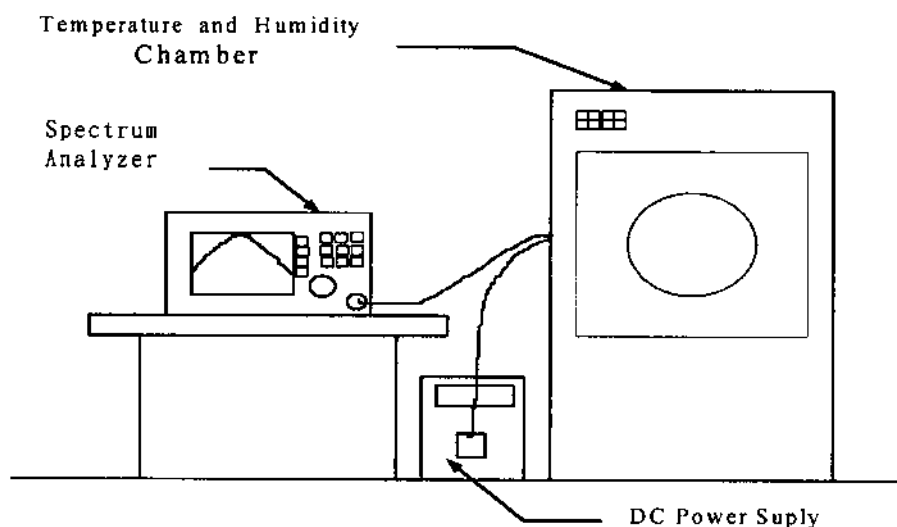
關閉 EUT 並將可控制溫度和濕度設備室設置為指定的最高溫度。

等待足夠的時間（約 30 分鐘）使可控制溫度和濕度設備室的溫度穩定，打開 EUT 並在 2 分鐘，5 分鐘和 10 分鐘後測量操作頻率。

重複步驟 2 和 3，將可控制溫度和濕度設備室設置為最低溫度。

使可控制溫度和濕度設備室在 $+20^{\circ}\text{C}$ 下穩定至少 30 分鐘。然後在 EUT 上將電源電壓從 85%調節到 115%並記錄頻率

11.3. 測試架構





11.4. 測試結果及數據

Operating frequency: 5180 MHz							
Temp(°C)	Power supply(V)	2 minute		5 minute		10 minute	
		(MHz)	(%)	(MHz)	(%)	(MHz)	(%)
50	102	5180.0158	0.000304	5180.0601	0.001161	5179.9527	-0.000913
	120	5180.0835	0.001612	5180.0607	0.001172	5179.9225	-0.001496
	138	5180.0345	0.000666	5180.0619	0.001194	5180.0751	0.001451
40	102	5179.9342	-0.001269	5179.9684	-0.000610	5180.0133	0.000256
	120	5180.0083	0.000160	5179.9274	-0.001402	5179.9314	-0.001325
	138	5179.9146	-0.001650	5180.0074	0.000143	5180.0286	0.000552
30	102	5179.9373	-0.001210	5179.9340	-0.001273	5179.9316	-0.001320
	120	5180.0232	0.000448	5180.0917	0.001770	5179.9769	-0.000446
	138	5179.9233	-0.001481	5179.9420	-0.001119	5179.9587	-0.000797
20	102	5180.0625	0.001207	5180.0383	0.000738	5180.0054	0.000104
	120	5180.0263	0.000507	5180.0801	0.001546	5179.9531	-0.000905
	138	5180.0548	0.001057	5179.9180	-0.001583	5179.9337	-0.001280
10	102	5179.9824	-0.000339	5180.0713	0.001377	5180.0224	0.000433
	120	5180.0136	0.000263	5180.0994	0.001919	5179.9179	-0.001586
	138	5179.9595	-0.000782	5179.9405	-0.001148	5180.0095	0.000182
0	102	5180.0801	0.001546	5179.9356	-0.001244	5179.9692	-0.000594
	120	5180.0990	0.001911	5180.0680	0.001312	5179.9830	-0.000328
	138	5180.0288	0.000556	5179.9849	-0.000292	5180.0222	0.000428
-10	102	5179.9541	-0.000887	5179.9153	-0.001634	5179.9902	-0.000189
	120	5179.9567	-0.000836	5179.9777	-0.000431	5179.9455	-0.001052
	138	5180.0322	0.000622	5179.9935	-0.000126	5180.0802	0.001549
-20	102	5180.0248	0.000478	5179.9053	-0.001829	5179.9831	-0.000327
	120	5179.9683	-0.000613	5180.0512	0.000988	5180.0584	0.001126
	138	5179.9785	-0.000414	5180.0083	0.000161	5179.9090	-0.001756
-30	102	5180.0669	0.001292	5179.9524	-0.000918	5180.0718	0.001387
	120	5180.0578	0.001116	5179.9265	-0.001418	5180.0999	0.001929
	138	5180.0939	0.001813	5180.0092	0.000177	5179.9604	-0.000765



Operating frequency: 5320 MHz							
Temp	Power supply	2 minute		5 minute		10 minute	
(°C)	(V)	(MHz)	(%)	(MHz)	(%)	(MHz)	(%)
50	102	5319.9732	-0.000503	5319.9247	-0.001415	5319.9836	-0.000308
	120	5319.9853	-0.000276	5319.9924	-0.000143	5319.9864	-0.000255
	138	5320.0333	0.000626	5319.9642	-0.000673	5319.9736	-0.000497
40	102	5319.9972	-0.000052	5320.0937	0.001761	5319.9640	-0.000678
	120	5320.0263	0.000494	5320.0589	0.001107	5320.0021	0.000040
	138	5319.9792	-0.000392	5319.9940	-0.000114	5320.0180	0.000338
30	102	5320.0492	0.000924	5320.0115	0.000216	5320.0877	0.001649
	120	5319.9613	-0.000727	5320.0508	0.000955	5319.9747	-0.000476
	138	5320.0487	0.000916	5319.9994	-0.000012	5319.9950	-0.000093
20	102	5320.0698	0.001312	5319.9472	-0.000993	5319.9916	-0.000157
	120	5320.0551	0.001035	5320.0725	0.001362	5319.9734	-0.000499
	138	5319.9646	-0.000666	5319.9741	-0.000487	5319.9263	-0.001385
10	102	5320.0910	0.001711	5320.0815	0.001531	5319.9482	-0.000974
	120	5320.0485	0.000911	5319.9731	-0.000505	5319.9440	-0.001053
	138	5320.0484	0.000909	5319.9943	-0.000108	5320.0383	0.000719
0	102	5320.0527	0.000990	5319.9484	-0.000970	5319.9948	-0.000098
	120	5319.9876	-0.000233	5319.9199	-0.001506	5319.9795	-0.000386
	138	5319.9649	-0.000659	5319.9108	-0.001677	5320.0295	0.000554
-10	102	5320.0661	0.001242	5320.0268	0.000504	5320.0362	0.000680
	120	5320.0239	0.000450	5319.9724	-0.000519	5319.9869	-0.000246
	138	5320.0404	0.000759	5319.9486	-0.000966	5320.0989	0.001858
-20	102	5319.9245	-0.001420	5319.9723	-0.000521	5320.0719	0.001351
	120	5320.0048	0.000090	5320.0211	0.000396	5320.0968	0.001819
	138	5319.9312	-0.001294	5319.9659	-0.000640	5320.0573	0.001076
-30	102	5320.0012	0.000023	5320.0553	0.001039	5320.0732	0.001376
	120	5320.0743	0.001397	5320.0056	0.000106	5320.0991	0.001863
	138	5320.0546	0.001025	5320.0631	0.001185	5320.0275	0.000516



12. 電波暴露量之評估

12.1. 適用標準

依據國家通訊傳播委員會低功率射頻電機技術規範 5.20 節之(5.20.2)規定，若受測物於正常操作模式下，其發射機距離人體 20 公分以上者，可測試最大暴露允許值(Maximum Permissible Exposure, MPE)以證明其符電波暴露量之要求。限制值如下：

(1) 職業性/可控制之暴露

頻率範圍 (MHz)	電場強度 (V/m)	磁場強度 (A/m)	功率密度 (mW/cm ²)	平均時間 (minutes)
0.3-3.0	614	1.63	*100	6
3-30	1842/f	4.89/f	*900/f ²	6
30-300	61.4	0.163	1.0	6
300-1,500	-----	-----	f/300	6
1,500-100,000	-----	-----	5.0	6

註 1：標記*表平面波等效功率密度。

註 2：f 表測試頻率，單位：百萬赫(MHz)。

(2) 一般人/不可控制之暴露

頻率範圍 (MHz)	電場強度 (V/m)	磁場強度 (A/m)	功率密度 (mW/cm ²)	平均時間 (minutes)
0.3-3.0	614	1.63	*100	30
3-30	1842/f	4.89/f	*180/f ²	30
30-300	27.5	0.073	1.0	30
300-1,500	-----	-----	f/1500	30
1,500-100,000	-----	-----	1.0	30

註 1：標記*表平面波等效功率密度。

註 2：f 表測試頻率，單位：百萬赫(MHz)。



12.2. 電波暴露量之評估結果及數據

Maximum Permissible Exposure

(Non-Beamforming)

Channel Frequency (MHz)	Max. Conducted output power (dBm)	Antenna Gain(dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
5180-5240	21.88	3.7	20	0.072	1
5250-5350	21.71	3.5	20	0.066	1
5470-5725	21.85	3.5	20	0.068	1
5745-5825	21.95	3.7	20	0.073	1

(Beamforming)

Channel Frequency (MHz)	Max. Conducted output power (dBm)	Antenna Gain(dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
5180-5240	18.87	6.32	20	0.066	1
5250-5350	18.70	6.36	20	0.064	1
5470-5725	18.84	6.31	20	0.065	1
5745-5825	18.94	6.71	20	0.073	1

**Maximum Permissible Exposure (Co-location)****(2.4G Non-Beamforming + 5G Band 4 Non-Beamforming)**

Modulation Mode	Channel Frequency (MHz)	Max. Conducted output power (dBm)	Antenna Gain(dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)	MPE Ratio
802.11g	2412-2462	29.97	1.9	20	0.306	1.000	0.306
11ac VHT40	5725-5850	21.95	3.7	20	0.073	1.000	0.073
Co-location Total							0.379
Σ MPE ratios Limit							1

(2.4G Non-Beamforming + 5G Band 3 Non-Beamforming)

Modulation Mode	Channel Frequency (MHz)	Max. Conducted output power (dBm)	Antenna Gain(dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)	MPE Ratio
802.11g	2412-2462	29.97	1.9	20	0.306	1.000	0.306
11ac VHT40	5470-5725	21.85	3.5	20	0.068	1.000	0.068
Co-location Total							0.374
Σ MPE ratios Limit							1

(2.4G Non-Beamforming + 5G Band 4 Beamforming)

Modulation Mode	Channel Frequency (MHz)	Max. Conducted output power (dBm)	Antenna Gain(dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)	MPE Ratio
802.11g	2412-2462	29.97	1.9	20	0.306	1.000	0.306
11ac VHT40	5725-5850	18.94	6.71	20	0.073	1.000	0.073
Co-location Total							0.379
Maximum Permissible Exposure Limit							1

(2.4G Non-Beamforming + 5G Band 3 Beamforming)

Modulation Mode	Channel Frequency (MHz)	Max. Conducted output power (dBm)	Antenna Gain(dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)	MPE Ratio
802.11g	2412-2462	29.97	1.9	20	0.306	1.000	0.306
11ac VHT40	5470-5725	18.84	6.31	20	0.065	1.000	0.065
Co-location Total							0.371
Maximum Permissible Exposure Limit							1

12.3. 結果判定

高、中、低頻段的電波暴露量皆低於限制值，合乎標準規定。



13. 限制使用之頻帶

Only spurious emissions are permitted in any of the frequency bands listed below:

頻率(兆赫)	頻率(兆赫)	頻率(兆赫)
0.090 - 0.110	240.00 - 285.00	3332.0 - 3339.0
0.490 - 0.510	322.00 - 335.40	3345.8 - 3358.0
2.172 - 2.198	399.90 - 410.00	3500.0 - 4400.0
3.013 - 3.033	485.00 - 510.00	4500.0 - 5250.0
4.115 - 4.198	608.00 - 614.00	5350.0 - 5460.0
5.670 - 5.690	703.00 - 748.00	7250.0 - 7750.0
6.200 - 6.300	758.00 - 803.00	8025.0 - 8500.0
8.230 - 8.400	825.00 - 915.00	9000.0 - 9200.0
12.265 - 12.600	930.00 - 1240.0	9300.0 - 9500.0
13.340 - 13.430	1300.0 - 1427.0	10600 - 12700
14.965 - 15.020	1435.0 - 1626.5	13250 - 13400
16.700 - 16.755	1660.0 - 1770.0	14470 - 14500
19.965 - 20.020	1805.0 - 1865.0	15350 - 16200
25.500 - 25.700	1885.0 - 1900.0	17700 - 21400
37.475 - 38.275	1905.0 - 1985.0	22010 - 23120
73.500 - 75.400	2015.0 - 2025.0	23600 - 24000
108.00 - 138.00	2125.0 - 2165.0	31200 - 31800
149.90 - 150.05	2200.0 - 2300.0	36430 - 36500
156.70 - 156.90	2310.0 - 2390.0	38600 以上
162.01 - 167.17	2483.5 - 2900.0	
167.72 - 173.20	3260.0 - 3267.0	