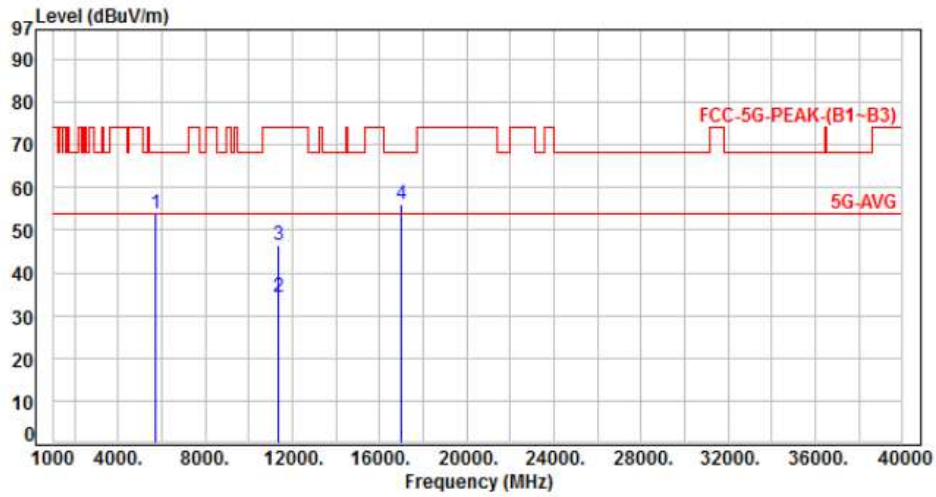




Power	: AC 120V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 3, Band 3, CH134		:

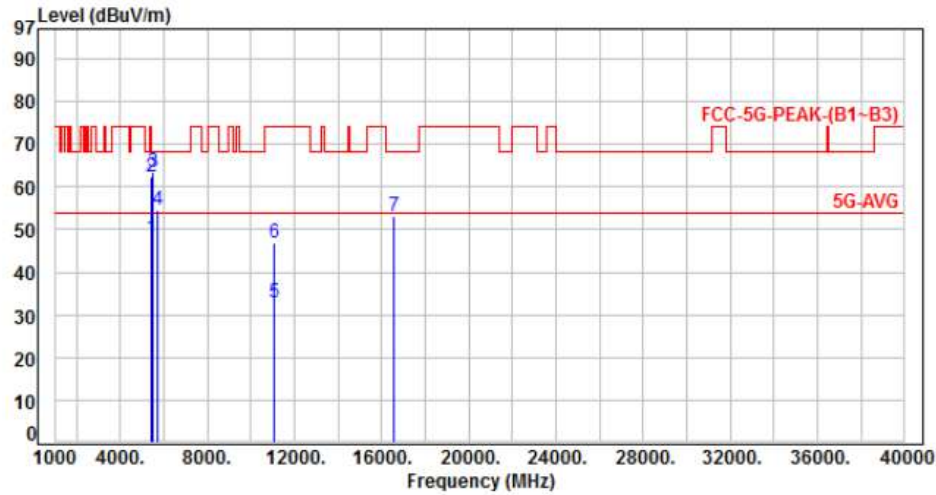


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5725.00	-5.46	59.24	53.78	68.20	-14.42	Peak	100	200	P
2	11340.00	3.63	30.55	34.18	54.00	-19.82	Average	361	108	P
3	11340.00	3.63	43.02	46.65	74.00	-27.35	Peak	361	108	P
4	17010.00	13.65	42.51	56.16	68.20	-12.04	Peak	100	344	P

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



Power	: AC 120V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 4, Band 3, CH106		:

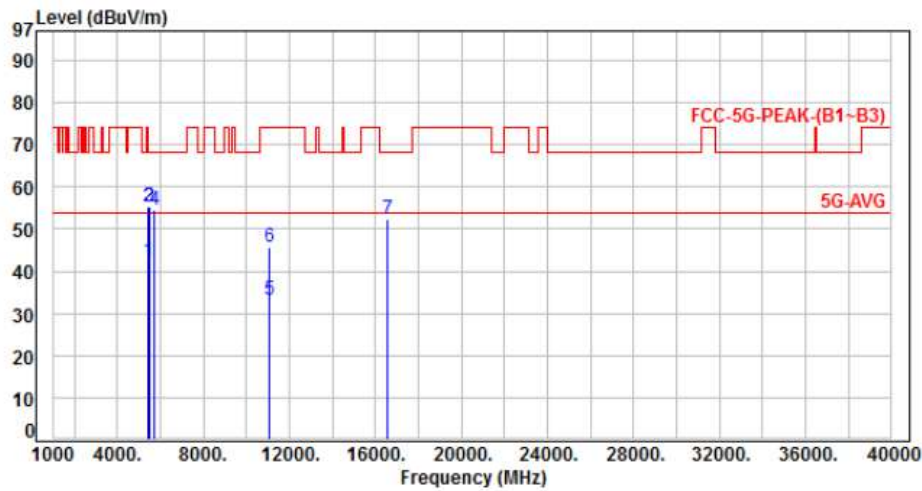


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5460.00	-5.22	53.10	47.88	54.00	-6.12	Average	233	200	P
2	5460.00	-5.22	67.40	62.18	74.00	-11.82	Peak	233	200	P
3	5470.00	-5.24	68.60	63.36	68.20	-4.84	Peak	233	200	P
4	5725.00	-5.46	59.90	54.44	68.20	-13.76	Peak	233	200	P
5	11060.00	3.37	29.44	32.81	54.00	-21.19	Average	100	105	P
6	11060.00	3.37	43.52	46.89	74.00	-27.11	Peak	100	105	P
7	16590.00	11.47	41.57	53.04	68.20	-15.16	Peak	100	68	P

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



Power	: AC 120V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 4, Band 3, CH106		:

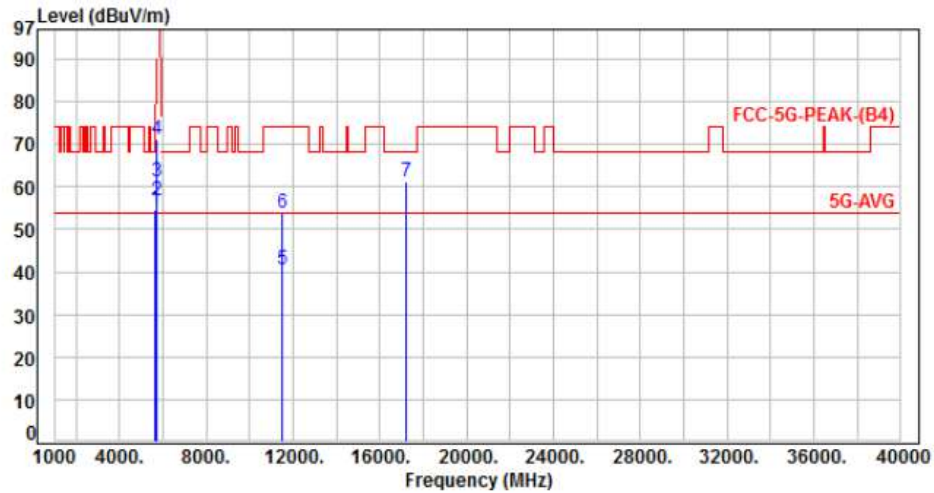


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5460.00	-5.22	47.70	42.48	54.00	-11.52	Average	400	208	P
2	5460.00	-5.22	60.67	55.45	74.00	-18.55	Peak	400	208	P
3	5470.00	-5.24	60.60	55.36	68.20	-12.84	Peak	400	208	P
4	5725.00	-5.46	59.90	54.44	68.20	-13.76	Peak	400	208	P
5	11060.00	3.37	29.87	33.24	54.00	-20.76	Average	100	317	P
6	11060.00	3.37	42.35	45.72	74.00	-28.28	Peak	100	317	P
7	16590.00	11.47	40.88	52.35	68.20	-15.85	Peak	100	352	P

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



Power	: AC 120V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 1, Band 4, CH149		:

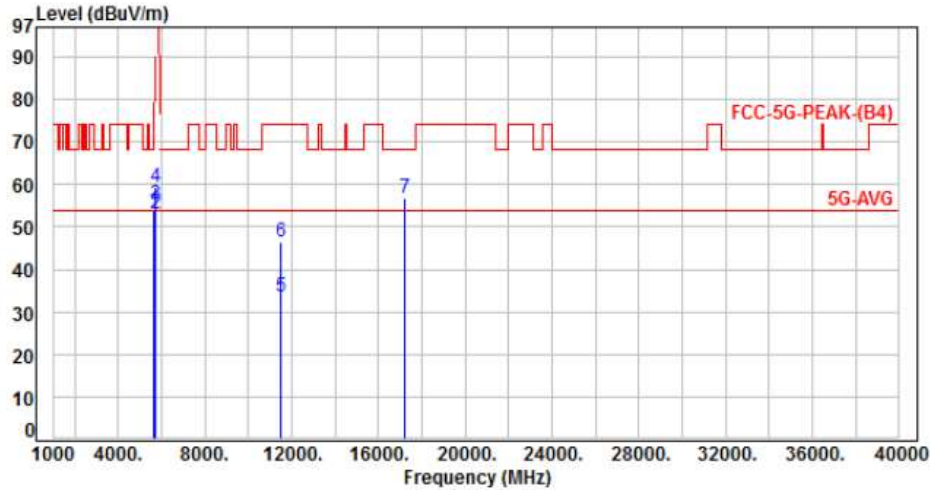


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	-5.36	59.99	54.63	68.20	-13.57	Peak	100	211	P
2	5700.00	-5.46	62.20	56.74	105.20	-48.46	Peak	100	211	P
3	5720.00	-5.47	66.83	61.36	110.80	-49.44	Peak	100	211	P
4	5725.00	-5.46	76.70	71.24	122.20	-50.96	Peak	100	211	P
5	11490.00	3.91	36.81	40.72	54.00	-13.28	Average	100	162	P
6	11490.00	3.91	49.81	53.72	74.00	-20.28	Peak	100	162	P
7	17235.00	14.91	46.20	61.11	68.20	-7.09	Peak	210	130	P

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



Power	: AC 120V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 1, Band 4, CH149		:

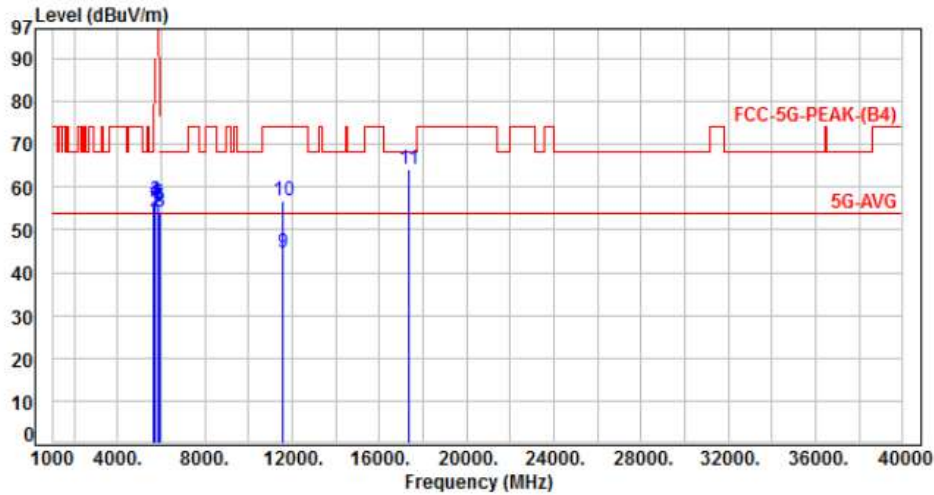


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	-5.36	59.22	53.86	68.20	-14.34	Peak	100	200	P
2	5700.00	-5.46	58.56	53.10	105.20	-52.10	Peak	100	200	P
3	5720.00	-5.47	60.71	55.24	110.80	-55.56	Peak	100	200	P
4	5725.00	-5.46	64.90	59.44	122.20	-62.76	Peak	100	200	P
5	11490.00	3.91	29.53	33.44	54.00	-20.56	Average	389	315	P
6	11490.00	3.91	42.67	46.58	74.00	-27.42	Peak	389	315	P
7	17235.00	14.91	41.80	56.71	68.20	-11.49	Peak	100	183	P

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



Power	: AC 120V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 1, Band 4, CH157		:

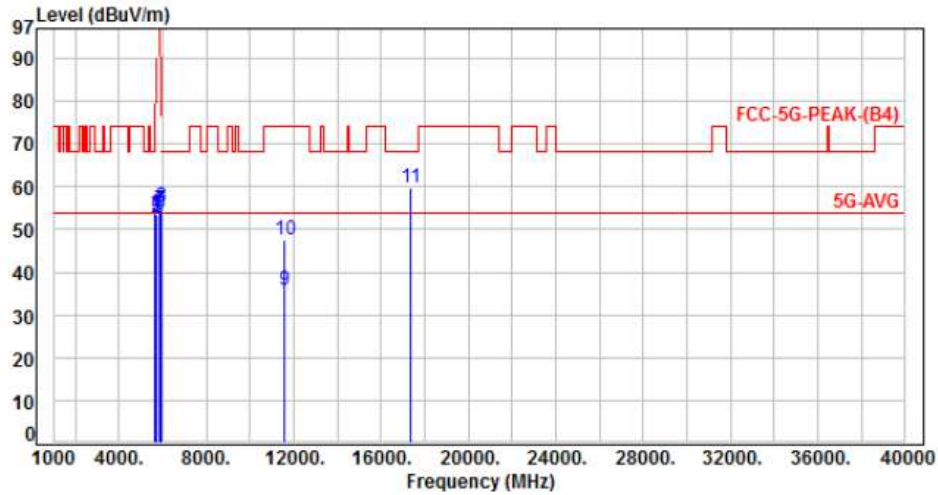


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	-5.36	61.55	56.19	68.20	-12.01	Peak	100	192	P
2	5700.00	-5.46	59.80	54.34	105.20	-50.86	Peak	100	192	P
3	5720.00	-5.47	62.31	56.84	110.80	-53.96	Peak	100	192	P
4	5725.00	-5.46	62.10	56.64	122.20	-65.56	Peak	100	192	P
5	5850.00	-5.36	61.60	56.24	122.20	-65.96	Peak	100	192	P
6	5855.00	-5.33	60.49	55.16	110.80	-55.64	Peak	100	192	P
7	5875.00	-5.26	60.57	55.31	105.20	-49.89	Peak	100	192	P
8	5925.00	-5.15	59.40	54.25	68.20	-13.95	Peak	100	192	P
9	11570.00	4.26	40.44	44.70	54.00	-9.30	Average	100	161	P
10	11570.00	4.26	52.39	56.65	74.00	-17.35	Peak	100	161	P
11	17355.00	15.64	48.70	64.34	68.20	-3.86	Peak	241	116	P

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



Power	: AC 120V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 1, Band 4, CH157		:

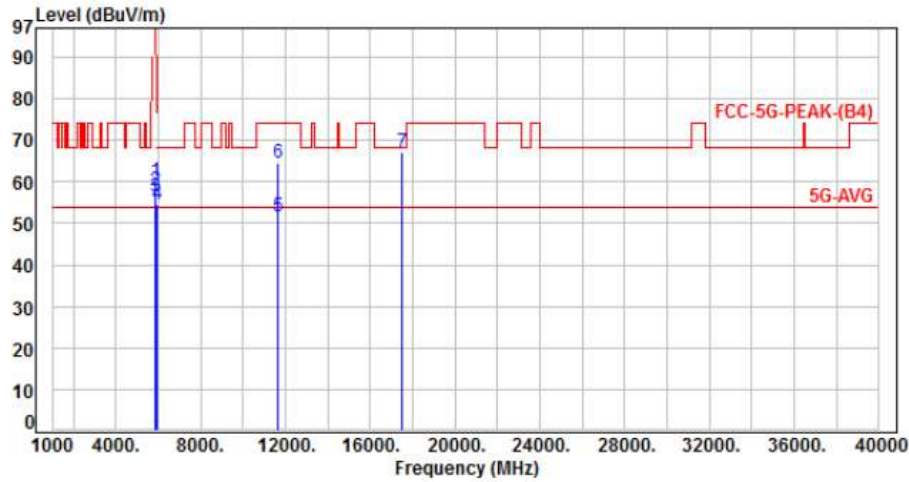


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	-5.36	59.22	53.86	68.20	-14.34	Peak	100	222	P
2	5700.00	-5.46	58.30	52.84	105.20	-52.36	Peak	100	222	P
3	5720.00	-5.47	58.61	53.14	110.80	-57.66	Peak	100	222	P
4	5725.00	-5.46	59.11	53.65	122.20	-68.55	Peak	100	222	P
5	5850.00	-5.36	59.40	54.04	122.20	-68.16	Peak	100	222	P
6	5855.00	-5.33	58.98	53.65	110.80	-57.15	Peak	100	222	P
7	5875.00	-5.26	59.70	54.44	105.20	-50.76	Peak	100	222	P
8	5925.00	-5.15	60.40	55.25	68.20	-12.95	Peak	100	222	P
9	11570.00	4.26	31.45	35.71	54.00	-18.29	Average	400	189	P
10	11570.00	4.26	43.39	47.65	74.00	-26.35	Peak	400	189	P
11	17355.00	15.64	44.24	59.88	68.20	-8.32	Peak	100	191	P

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



Power	: AC 120V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 1, Band 4, CH165		:

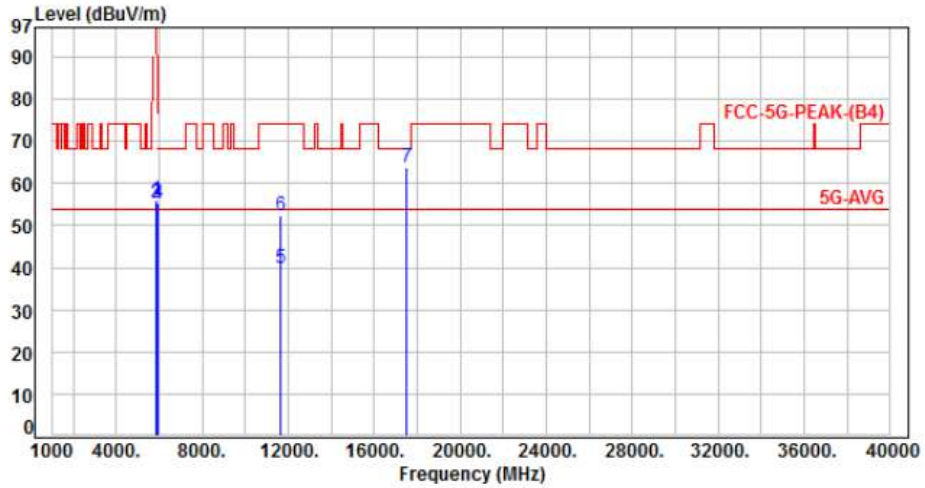


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5850.00	-5.36	65.40	60.04	122.20	-62.16	Peak	100	192	P
2	5855.00	-5.33	63.39	58.06	110.80	-52.74	Peak	100	192	P
3	5875.00	-5.26	61.61	56.35	105.20	-48.85	Peak	100	192	P
4	5925.00	-5.15	59.80	54.65	68.20	-13.55	Peak	100	192	P
5	11650.00	4.47	47.20	51.67	54.00	-2.33	Average	100	155	P
6	11650.00	4.47	59.90	64.37	74.00	-9.63	Peak	100	155	P
7	17475.00	16.59	50.60	67.19	68.20	-1.01	Peak	218	113	P

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



Power	: AC 120V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 1, Band 4, CH165		:

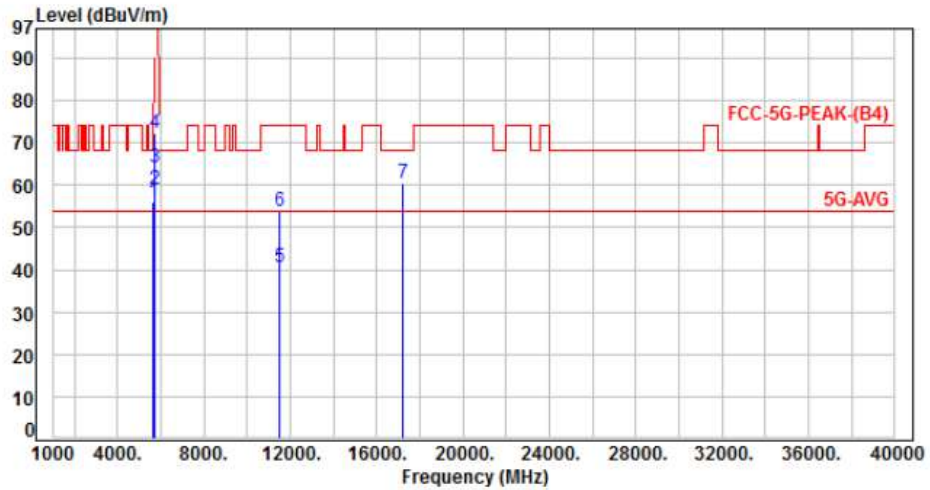


No.	Frequency (MHz)	Factor (dB)	Reading (dBUV)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5850.00	-5.36	61.33	55.97	122.20	-66.23	Peak	381	221	P
2	5855.00	-5.33	60.79	55.46	110.80	-55.34	Peak	381	221	P
3	5875.00	-5.26	60.61	55.35	105.20	-49.85	Peak	381	221	P
4	5925.00	-5.15	60.43	55.28	68.20	-12.92	Peak	381	221	P
5	11650.00	4.47	35.44	39.91	54.00	-14.09	Average	100	185	P
6	11650.00	4.47	47.80	52.27	74.00	-21.73	Peak	100	185	P
7	17475.00	16.59	47.32	63.91	68.20	-4.29	Peak	100	174	P

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



Power	: AC 120V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 2, Band 4, CH149		

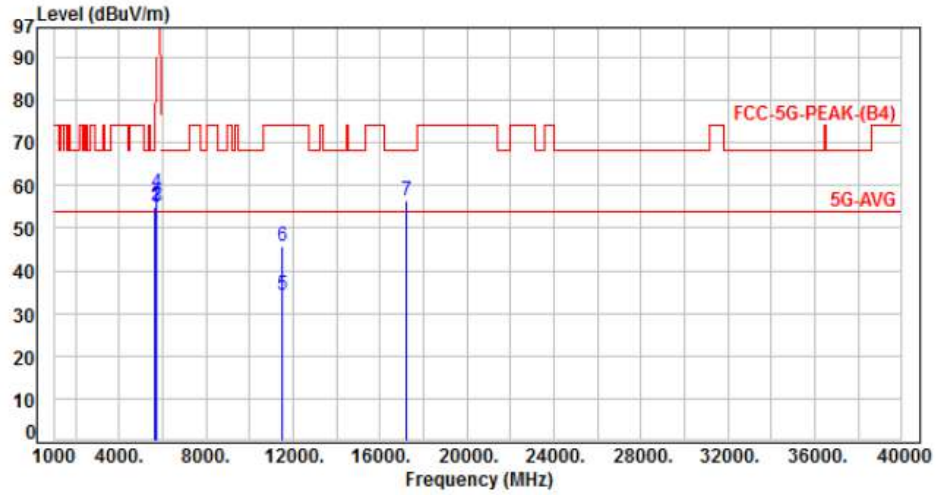


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	-5.36	61.50	56.14	68.20	-12.06	Peak	100	131	P
2	5700.00	-5.46	64.30	58.84	105.20	-46.36	Peak	100	131	P
3	5720.00	-5.47	69.81	64.34	110.80	-46.46	Peak	100	131	P
4	5725.00	-5.46	77.90	72.44	122.20	-49.76	Peak	100	131	P
5	11490.00	3.91	36.74	40.65	54.00	-13.35	Average	100	160	P
6	11490.00	3.91	49.81	53.72	74.00	-20.28	Peak	100	160	P
7	17235.00	14.91	45.74	60.65	68.20	-7.55	Peak	245	136	P

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



Power	: AC 120V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 2, Band 4, CH149		:

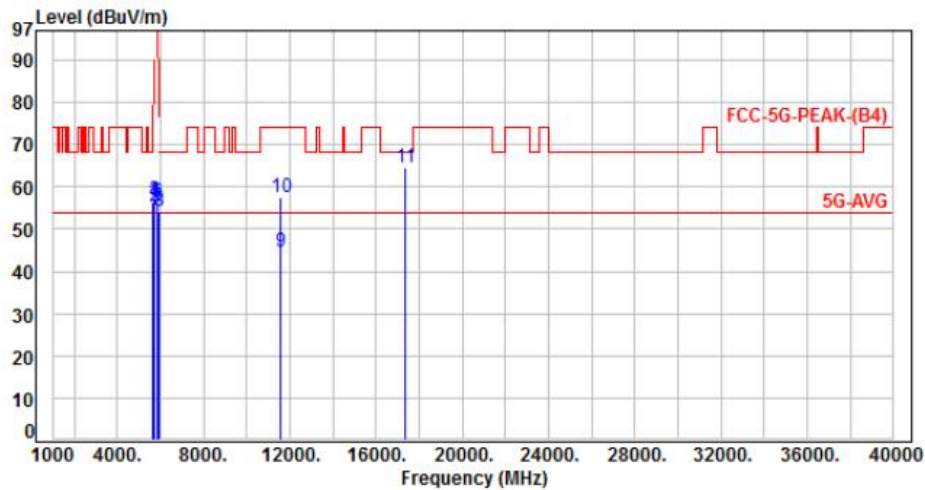


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	-5.36	60.40	55.04	68.20	-13.16	Peak	100	220	P
2	5700.00	-5.46	60.80	55.34	105.20	-49.86	Peak	100	220	P
3	5720.00	-5.47	60.31	54.84	110.80	-55.96	Peak	100	220	P
4	5725.00	-5.46	63.90	58.44	122.20	-63.76	Peak	100	220	P
5	11490.00	3.91	30.31	34.22	54.00	-19.78	Average	377	190	P
6	11490.00	3.91	41.68	45.59	74.00	-28.41	Peak	377	190	P
7	17235.00	14.91	41.58	56.49	68.20	-11.71	Peak	100	305	P

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



Power	: AC 120V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 2, Band 4, CH157		:

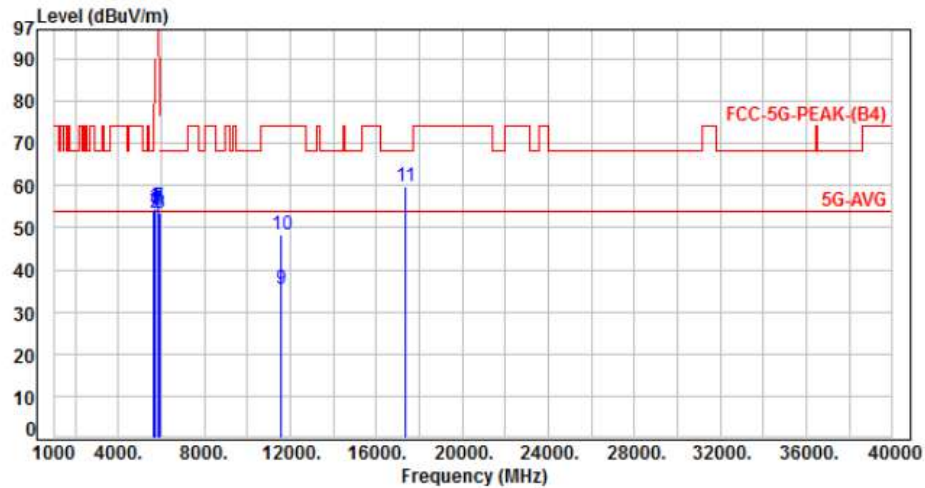


No.	Frequency (MHz)	Factor (dB)	Reading (dBUV)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	-5.36	61.75	56.39	68.20	-11.81	Peak	100	190	P
2	5700.00	-5.46	60.70	55.24	105.20	-49.96	Peak	100	190	P
3	5720.00	-5.47	62.31	56.84	110.80	-53.96	Peak	100	190	P
4	5725.00	-5.46	61.99	56.53	122.20	-65.67	Peak	100	190	P
5	5850.00	-5.36	60.80	55.44	122.20	-66.76	Peak	100	190	P
6	5855.00	-5.33	61.76	56.43	110.80	-54.37	Peak	100	190	P
7	5875.00	-5.26	59.91	54.65	105.20	-50.55	Peak	100	190	P
8	5925.00	-5.15	59.52	54.37	68.20	-13.83	Peak	100	190	P
9	11570.00	4.26	40.29	44.55	54.00	-9.45	Average	100	173	P
10	11570.00	4.26	53.39	57.65	74.00	-16.35	Peak	100	173	P
11	17355.00	15.64	48.86	64.50	68.20	-3.70	Peak	238	125	P

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



Power	: AC 120V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 2, Band 4, CH157		:

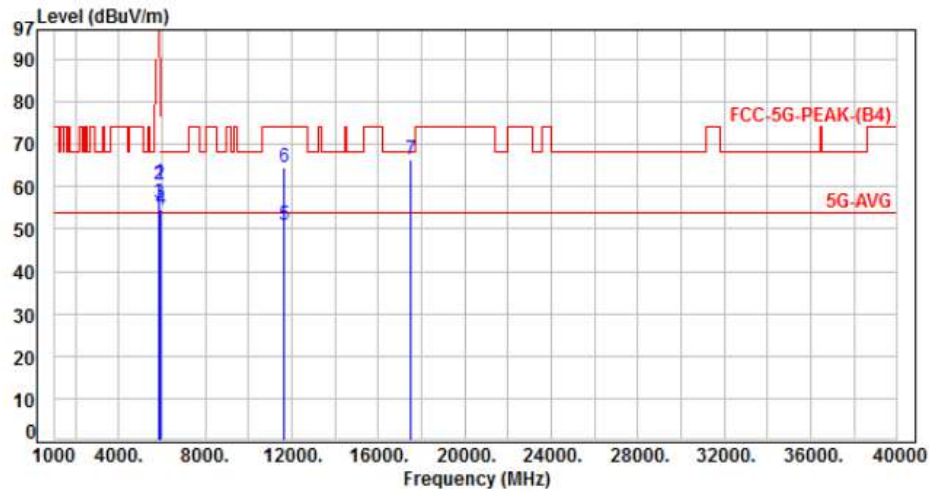


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	-5.36	59.44	54.08	68.20	-14.12	Peak	100	226	P
2	5700.00	-5.46	59.00	53.54	105.20	-51.66	Peak	100	226	P
3	5720.00	-5.47	60.21	54.74	110.80	-56.06	Peak	100	226	P
4	5725.00	-5.46	59.80	54.34	122.20	-67.86	Peak	100	226	P
5	5850.00	-5.36	59.66	54.30	122.20	-67.90	Peak	100	226	P
6	5855.00	-5.33	59.41	54.08	110.80	-56.72	Peak	100	226	P
7	5875.00	-5.26	60.21	54.95	105.20	-50.25	Peak	100	226	P
8	5925.00	-5.15	58.80	53.65	68.20	-14.55	Peak	100	226	P
9	11570.00	4.26	31.07	35.33	54.00	-18.67	Average	395	217	P
10	11570.00	4.26	44.20	48.46	74.00	-25.54	Peak	395	217	P
11	17355.00	15.64	43.95	59.59	68.20	-8.61	Peak	100	203	P

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



Power	: AC 120V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 2, Band 4, CH165		:

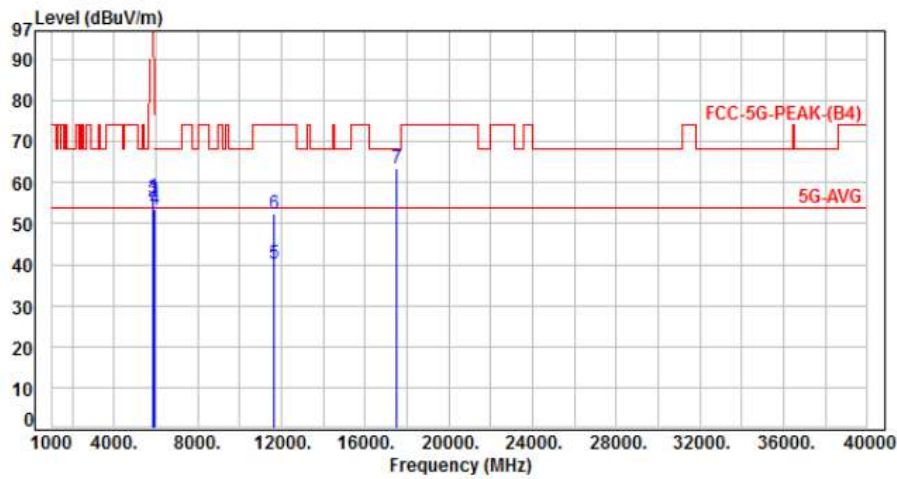


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5850.00	-5.36	66.20	60.84	122.20	-61.36	Peak	100	217	P
2	5855.00	-5.33	65.66	60.33	110.80	-50.47	Peak	100	217	P
3	5875.00	-5.26	61.41	56.15	105.20	-49.05	Peak	100	217	P
4	5925.00	-5.15	59.60	54.45	68.20	-13.75	Peak	100	217	P
5	11650.00	4.47	46.40	50.87	54.00	-3.13	Average	100	163	P
6	11650.00	4.47	60.20	64.67	74.00	-9.33	Peak	100	163	P
7	17475.00	16.59	49.94	66.53	68.20	-1.67	Peak	227	119	P

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



Power	: AC 120V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 2, Band 4, CH165		:

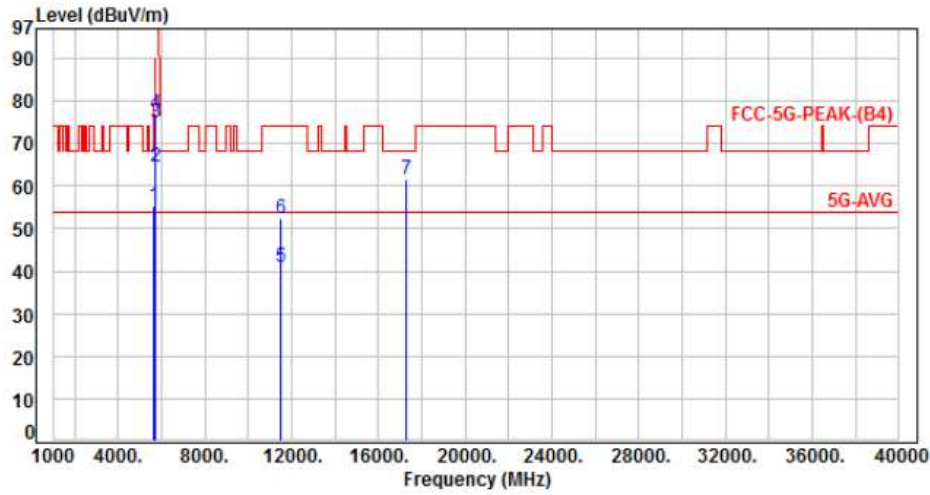


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5850.00	-5.36	61.70	56.34	122.20	-65.86	Peak	124	225	P
2	5855.00	-5.33	60.59	55.26	110.80	-55.54	Peak	124	225	P
3	5875.00	-5.26	61.27	56.01	105.20	-49.19	Peak	124	225	P
4	5925.00	-5.15	58.66	53.51	68.20	-14.69	Peak	124	225	P
5	11650.00	4.47	35.66	40.13	54.00	-13.87	Average	100	184	P
6	11650.00	4.47	47.85	52.32	74.00	-21.68	Peak	100	184	P
7	17475.00	16.59	46.97	63.56	68.20	-4.64	Peak	100	167	P

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



Power	: AC 120V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 3, Band 4, CH151		:

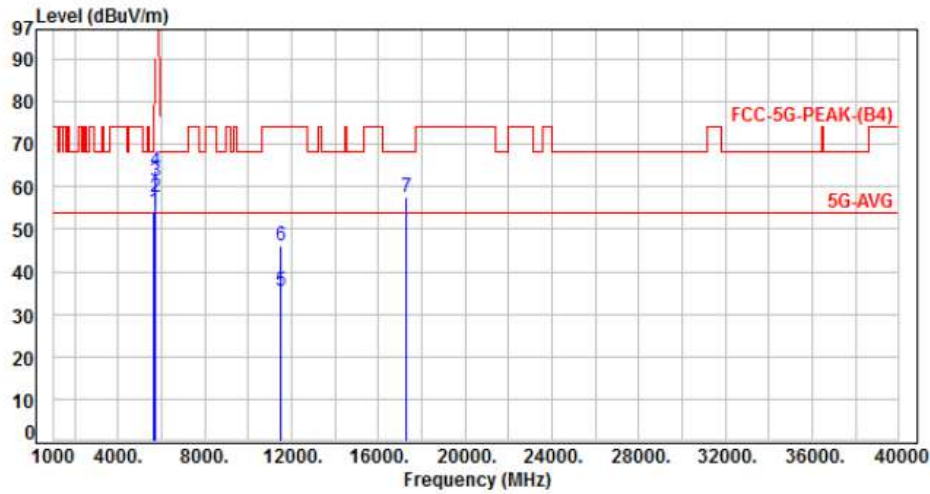


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	-5.36	60.80	55.44	68.20	-12.76	Peak	100	199	P
2	5700.00	-5.46	69.90	64.44	105.20	-40.76	Peak	100	199	P
3	5720.00	-5.47	80.21	74.74	110.80	-36.06	Peak	100	199	P
4	5725.00	-5.46	82.60	77.14	122.20	-45.06	Peak	100	199	P
5	11510.00	3.98	36.88	40.86	54.00	-13.14	Average	100	166	P
6	11510.00	3.98	48.40	52.38	74.00	-21.62	Peak	100	166	P
7	17265.00	15.07	46.50	61.57	68.20	-6.63	Peak	253	132	P

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



Power	: AC 120V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 3, Band 4, CH151		:

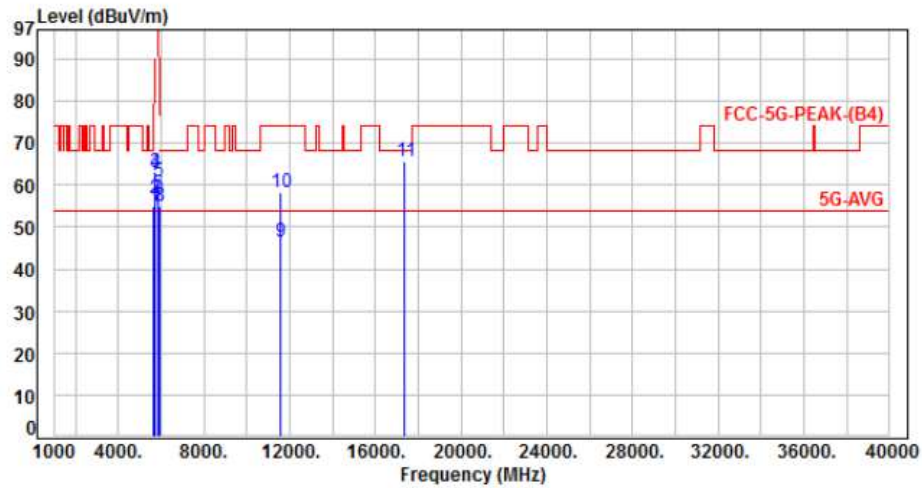


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	-5.36	59.58	54.22	68.20	-13.98	Peak	100	224	P
2	5700.00	-5.46	62.92	57.46	105.20	-47.74	Peak	100	224	P
3	5720.00	-5.47	66.61	61.14	110.80	-49.66	Peak	100	224	P
4	5725.00	-5.46	69.10	63.64	122.20	-58.56	Peak	100	224	P
5	11510.00	3.98	31.40	35.38	54.00	-18.62	Average	368	301	P
6	11510.00	3.98	42.11	46.09	74.00	-27.91	Peak	368	301	P
7	17265.00	15.07	42.52	57.59	68.20	-10.61	Peak	100	342	P

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



Power	: AC 120V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 3, Band 4, CH159		

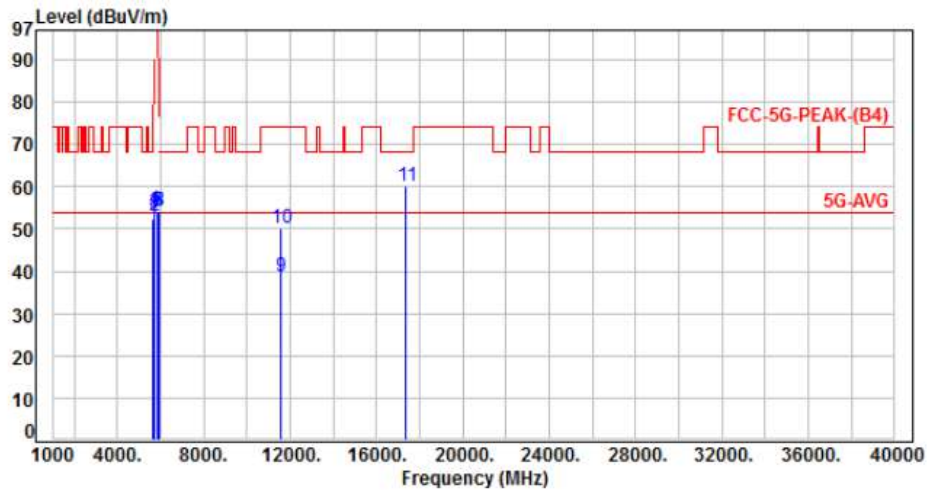


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	-5.36	60.50	55.14	68.20	-13.06	Peak	112	197	P
2	5700.00	-5.46	62.40	56.94	105.20	-48.26	Peak	112	197	P
3	5720.00	-5.47	68.61	63.14	110.80	-47.66	Peak	112	197	P
4	5725.00	-5.46	68.40	62.94	122.20	-59.26	Peak	112	197	P
5	5850.00	-5.36	66.25	60.89	122.20	-61.31	Peak	112	197	P
6	5855.00	-5.33	63.29	57.96	110.80	-52.84	Peak	112	197	P
7	5875.00	-5.26	60.36	55.10	105.20	-50.10	Peak	112	197	P
8	5925.00	-5.15	60.12	54.97	68.20	-13.23	Peak	112	197	P
9	11590.00	4.34	42.11	46.45	54.00	-7.55	Average	105	163	P
10	11590.00	4.34	53.81	58.15	74.00	-15.85	Peak	105	163	P
11	17385.00	15.86	49.86	65.72	68.20	-2.48	Peak	250	124	P

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



Power	: AC 120V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 3, Band 4, CH159		:

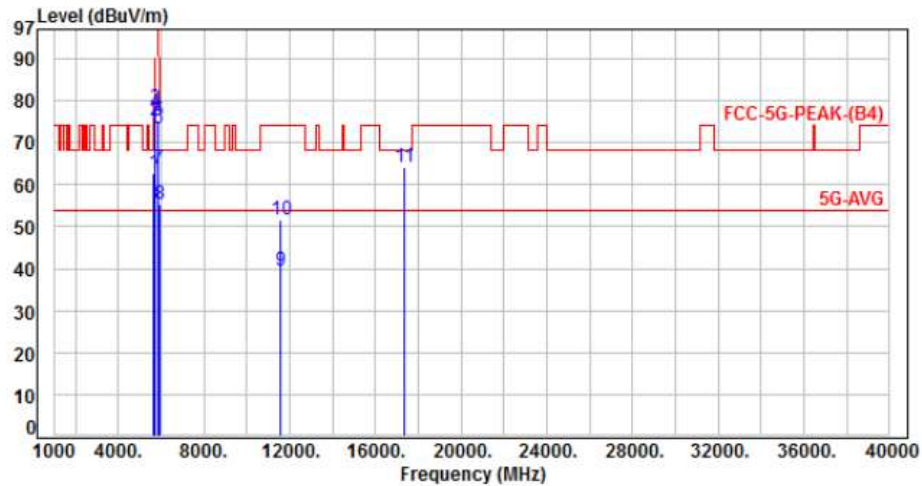


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	-5.36	57.88	52.52	68.20	-15.68	Peak	100	219	P
2	5700.00	-5.46	58.40	52.94	105.20	-52.26	Peak	100	219	P
3	5720.00	-5.47	59.34	53.87	110.80	-56.93	Peak	100	219	P
4	5725.00	-5.46	59.88	54.42	122.20	-67.78	Peak	100	219	P
5	5850.00	-5.36	59.40	54.04	122.20	-68.16	Peak	100	219	P
6	5855.00	-5.33	59.39	54.06	110.80	-56.74	Peak	100	219	P
7	5875.00	-5.26	59.48	54.22	105.20	-50.98	Peak	100	219	P
8	5925.00	-5.15	59.30	54.15	68.20	-14.05	Peak	100	219	P
9	11590.00	4.34	34.21	38.55	54.00	-15.45	Average	362	274	P
10	11590.00	4.34	45.88	50.22	74.00	-23.78	Peak	362	274	P
11	17385.00	15.86	44.40	60.26	68.20	-7.94	Peak	100	342	P

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



Power	: AC 120V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 4, Band 4, CH155		:

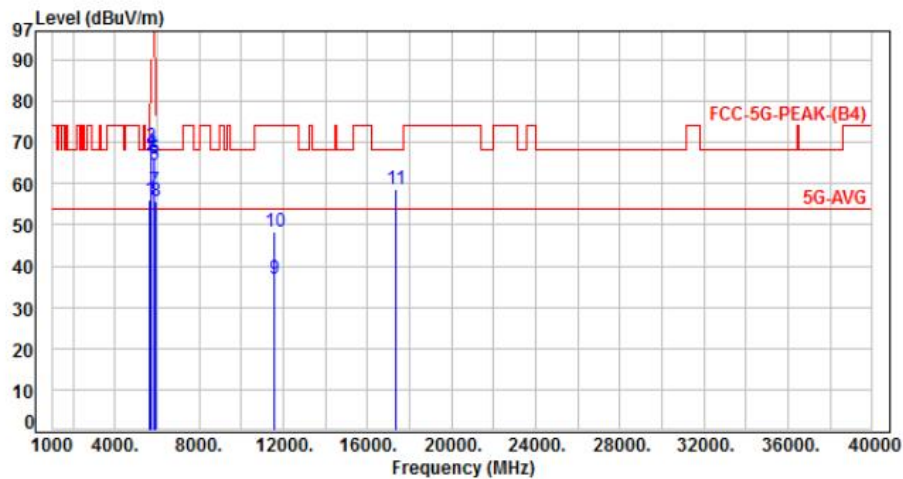


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	-5.36	68.20	62.84	68.20	-5.36	Peak	100	148	P
2	5700.00	-5.46	80.80	75.34	105.20	-29.86	Peak	100	148	P
3	5720.00	-5.47	83.66	78.19	110.80	-32.61	Peak	100	148	P
4	5725.00	-5.46	82.60	77.14	122.20	-45.06	Peak	100	148	P
5	5850.00	-5.36	80.44	75.08	122.20	-47.12	Peak	100	148	P
6	5855.00	-5.33	78.89	73.56	110.80	-37.24	Peak	100	148	P
7	5875.00	-5.26	68.91	63.65	105.20	-41.55	Peak	100	148	P
8	5925.00	-5.15	60.40	55.25	68.20	-12.95	Peak	100	148	P
9	11550.00	4.16	35.40	39.56	54.00	-14.44	Average	100	163	P
10	11550.00	4.16	47.50	51.66	74.00	-22.34	Peak	100	163	P
11	17325.00	15.43	48.60	64.03	68.20	-4.17	Peak	241	116	P

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



Power	: AC 120V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 4, Band 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	-5.36	61.40	56.04	68.20	-12.16	Peak	100	221	P
2	5700.00	-5.46	72.30	66.84	105.20	-38.36	Peak	100	221	P
3	5720.00	-5.47	74.61	69.14	110.80	-41.66	Peak	100	221	P
4	5725.00	-5.46	73.50	68.04	122.20	-54.16	Peak	100	221	P
5	5850.00	-5.36	71.20	65.84	122.20	-56.36	Peak	100	221	P
6	5855.00	-5.33	69.69	64.36	110.80	-46.44	Peak	100	221	P
7	5875.00	-5.26	63.61	58.35	105.20	-46.85	Peak	100	221	P
8	5925.00	-5.15	60.80	55.65	68.20	-12.55	Peak	100	221	P
9	11550.00	4.16	32.79	36.95	54.00	-17.05	Average	382	247	P
10	11550.00	4.16	44.27	48.43	74.00	-25.57	Peak	382	247	P
11	17325.00	15.43	43.14	58.57	68.20	-9.63	Peak	100	297	P

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



6.7. Restricted Bands of Operation

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

MHz	MHz	MHz	GHz
0.09000 – 0.11000	16.42000 – 16.42300	399.9 – 410.0	4.500 – 5.150
0.49500 – 0.505**	16.69475 – 16.69525	608.0 – 614.0	5.350 – 5.460
2.17350 – 2.19050	16.80425 – 16.80475	960.0 – 1240.0	7.250 – 7.750
4.12500 – 4.12800	25.50000 – 25.67000	1300.0 – 1427.0	8.025 – 8.500
4.17725 – 4.17775	37.50000 – 38.25000	1435.0 – 1626.5	9.000 – 9.200
4.20725 – 4.20775	73.00000 – 74.60000	1645.5 – 1646.5	9.300 – 9.500
6.21500 – 6.21800	74.80000 – 75.20000	1660.0 – 1710.0	10.600 – 12.700
6.26775 – 6.26825	108.00000 – 121.94000	1718.8 – 1722.2	13.250 – 13.400
6.31175 – 6.31225	123.00000 – 138.00000	2200.0 – 2300.0	14.470 – 14.500
8.29100 – 8.29400	149.90000 – 150.05000	2310.0 – 2390.0	15.350 – 16.200
8.36200 – 8.36600	156.52475 – 156.52525	2483.5 – 2500.0	17.700 – 21.400
8.37625 – 8.38675	156.70000 – 156.90000	2655.0 – 2900.0	22.010 – 23.120
8.41425 – 8.41475	162.01250 – 167.17000	3260.0 – 3267.0	23.600 – 24.000
12.29000 – 12.29300	167.72000 – 173.20000	3332.0 – 3339.0	31.200 – 31.800
12.51975 – 12.52025	240.00000 – 285.00000	3345.8 – 3358.0	36.430 – 36.500
12.57675 – 12.57725	322.00000 – 335.40000	3600.0 – 4400.0	Above 38.6
13.36000 – 13.41000			

** : Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz



7. On Time, Duty Cycle and Measurement methods

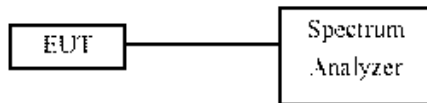
7.1. Test Limit

None; for reporting purposes only.

7.2. Test Procedure

KDB 789033 Zero-Span Spectrum Analyzer Method.

7.3. Test Setup Layout



7.4. Test Result and Data

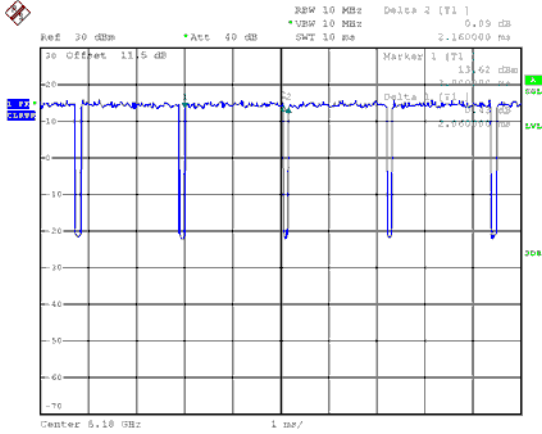
Modulation Type	On Time (msec)	Period Time (msec)	Duty Cycle (%)
802.11a	2.06	2.16	95.37%
802.11ac VHT20	1.91	2.09	91.67%
802.11ac VHT40	0.94	1.04	91.09%
802.11ac VHT80	0.46	0.51	90.32%

7.5. Measurement Methods

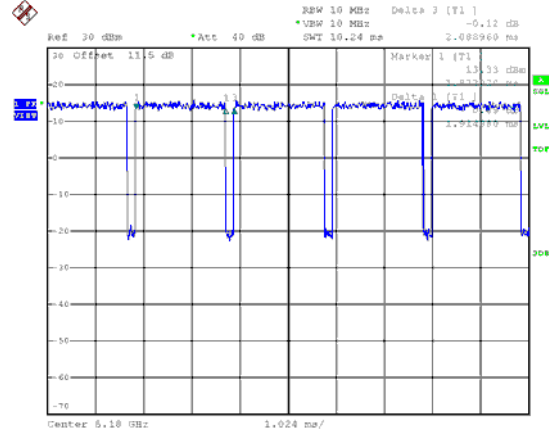
26 dB and 6dB Emission BW	KDB 789033 D02 v02r01, Section C
99% Occupied BW	KDB 789033 D02 v02r01, Section D
Conducted Output Power	KDB 789033 D02 v02r01, Section E.2.d and E.3.b (Method PM-G)
Power Spectral Density	KDB 789033 D02 v02r01, Section F
Unwanted emissions in restricted bands	KDB 789033 D02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



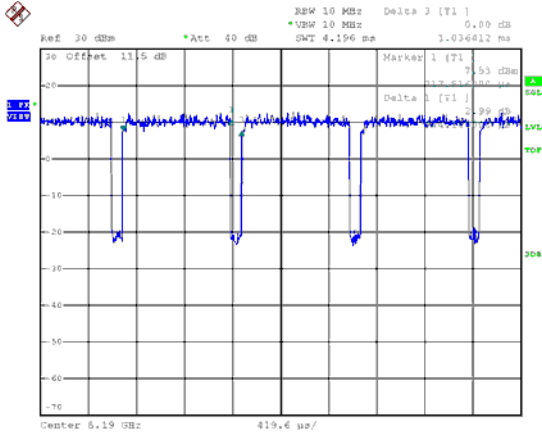
Modulation Type: 802.11a (6Mbps)



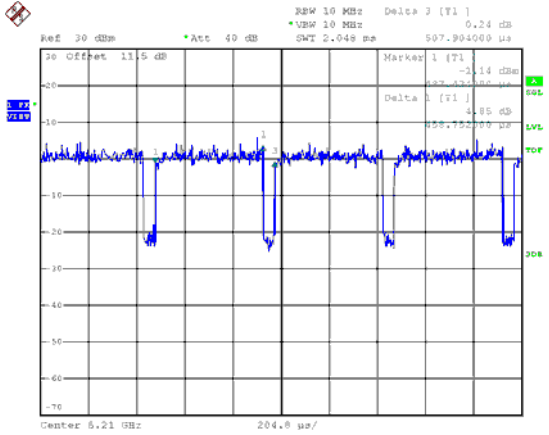
Modulation Type: 802.11ac VHT20 (6.5Mbps)



Modulation Type: 802.11ac VHT40 (13.5Mbps)



Modulation Type: 802.11ac VHT80 (29.3Mbps)





8. 6dB Bandwidth & 99% Occupied Bandwidth

8.1. Test Limit

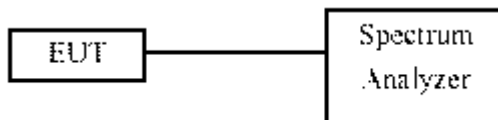
FCC §15.407

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

8.2. Test Procedure

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.

8.3. Test Setup Layout



8.4. Test Result and Data (6dB Bandwidth)

In the 5.8G Band

Modulation Type	Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)
			ANT A	ANT B	
802.11a	149	5745	15.20	15.10	0.50
	157	5785	15.10	15.10	0.50
	165	5825	15.40	15.30	0.50
802.11ac VHT20	149	5745	15.10	15.10	0.50
	157	5785	15.10	15.10	0.50
	165	5825	15.20	15.10	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	75.60	75.28	0.50



8.5. Test Result and Data (99% Occupied Bandwidth)

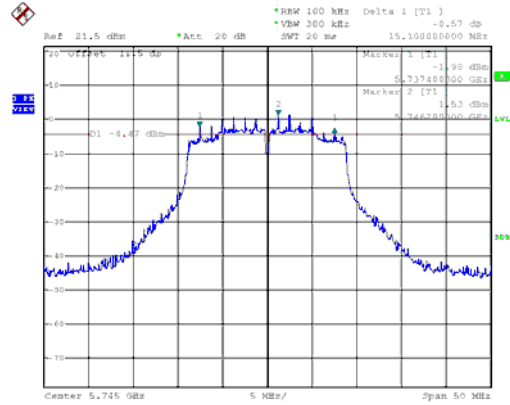
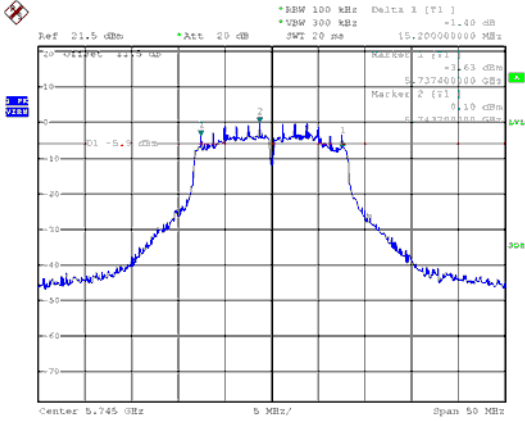
In the 5.8G Band

Modulation Type	Channel	Frequency (MHz)	99% Bandwidth (MHz)	
			ANT A	ANT B
802.11a	149	5745	16.70	16.60
	157	5785	16.60	16.60
	165	5825	16.60	16.60
802.11ac VHT20	149	5745	17.80	17.80
	157	5785	17.80	17.80
	165	5825	17.80	17.80
802.11ac VHT40	155	5755	36.40	36.40
	159	5795	36.40	36.40
802.11ac VHT80	155	5775	76.16	75.84

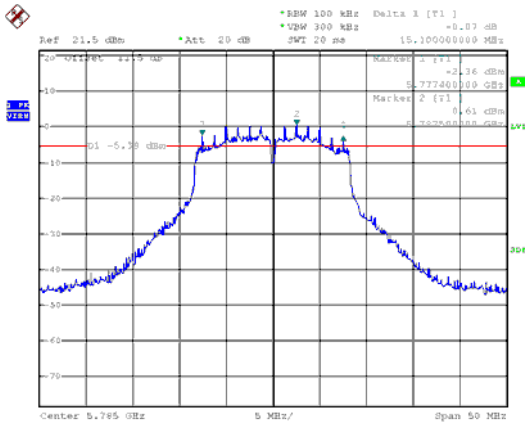


6dB Bandwidth
ANT A
Modulation Type: 802.11a (6Mbps)
CH149

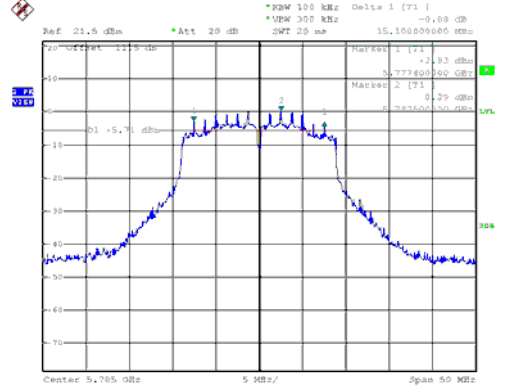
Modulation Type: 802.11ac, VHT20 (6.5Mbps)
CH149



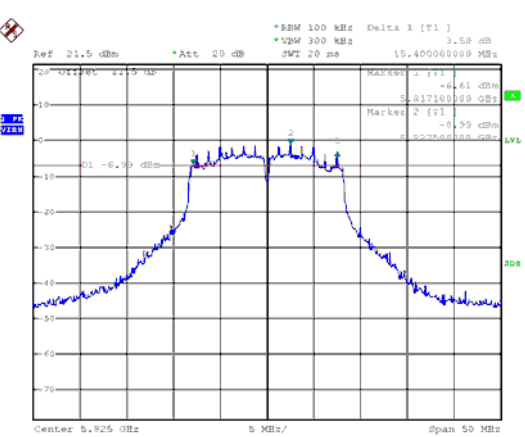
CH157



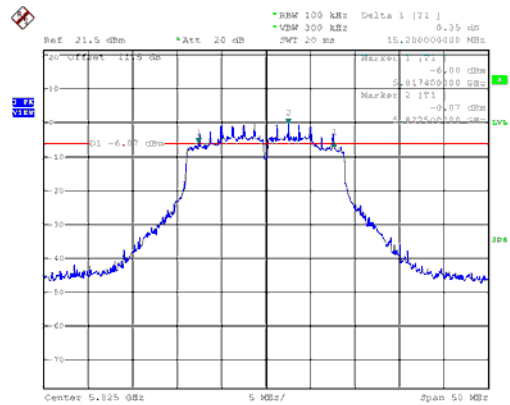
CH157



CH165

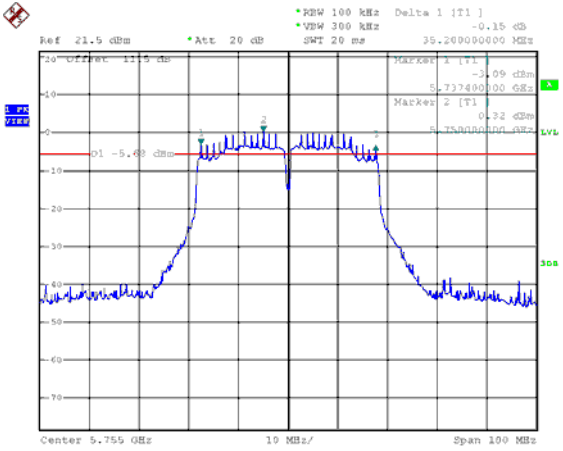


CH165

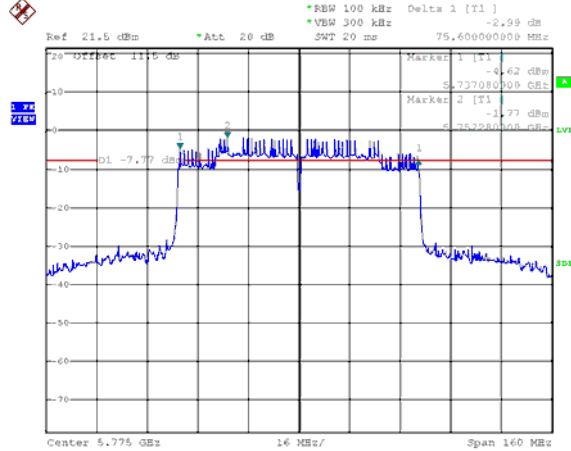




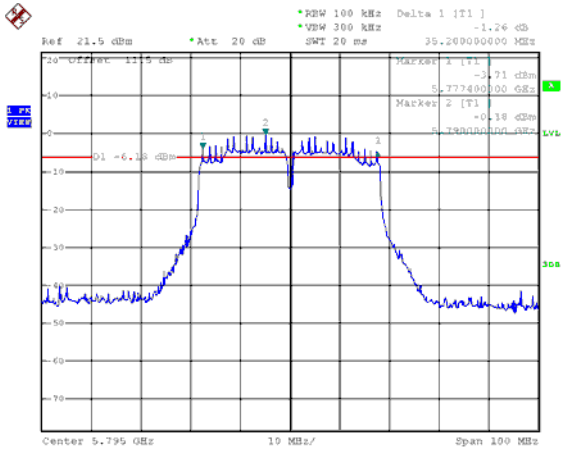
Modulation Type: 802.11ac, VHT40 (13.5Mbps) CH151



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

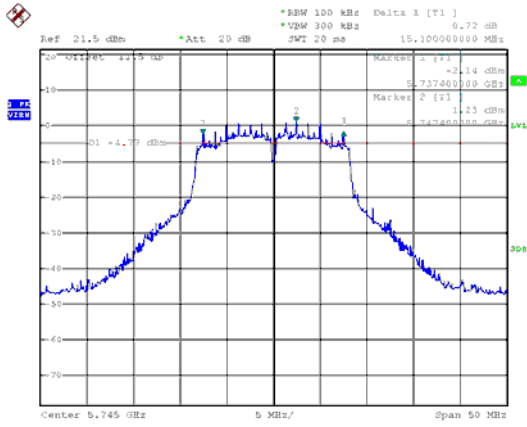


CH159

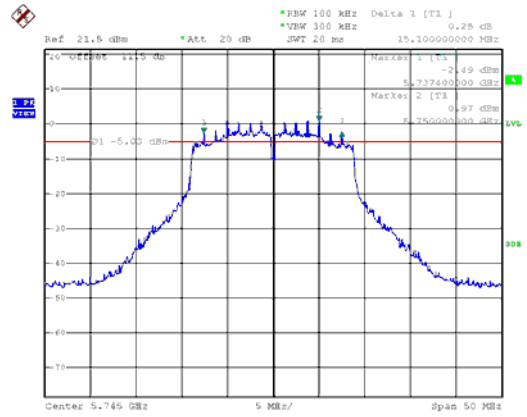




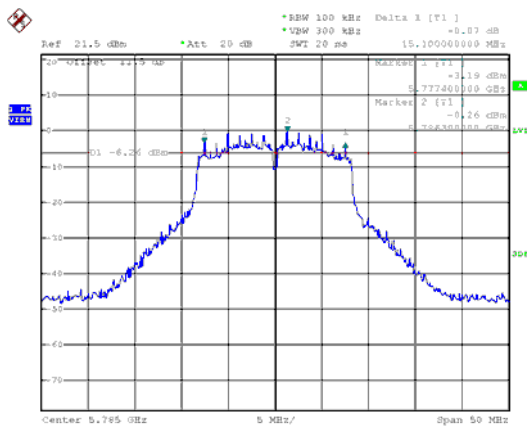
ANT B
Modulation Type: 802.11a (6Mbps)
CH149



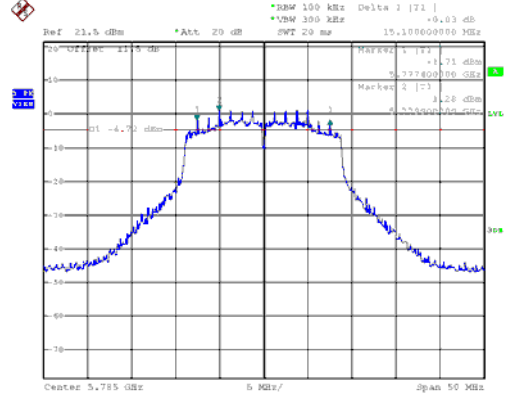
Modulation Type: 802.11ac, VHT20 (6.5Mbps)
CH149



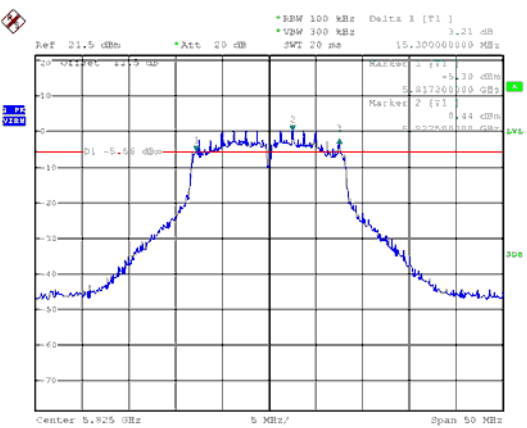
CH157



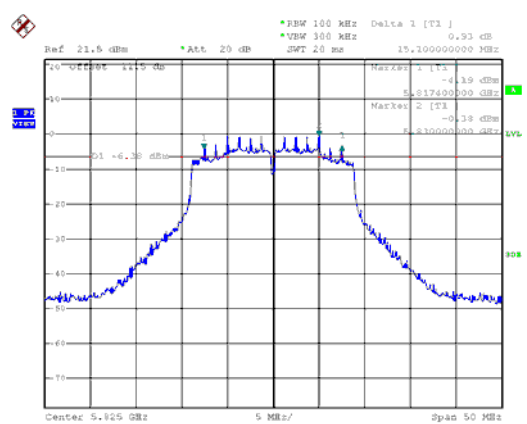
CH157



CH165

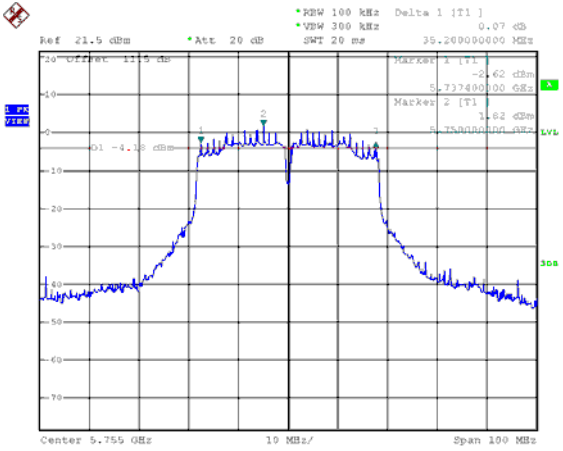


CH165

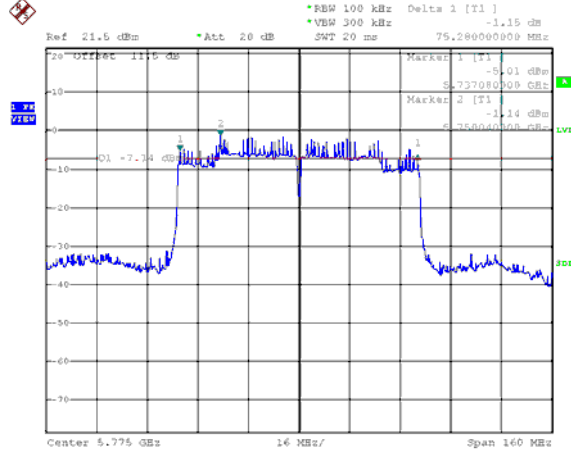




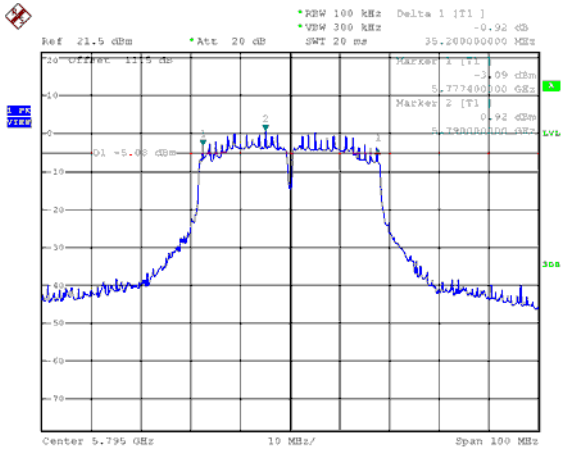
Modulation Type: 802.11ac, VHT40 (13.5Mbps)
CH151



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

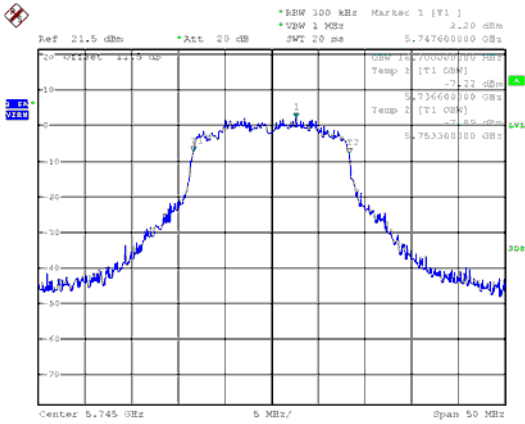


CH159

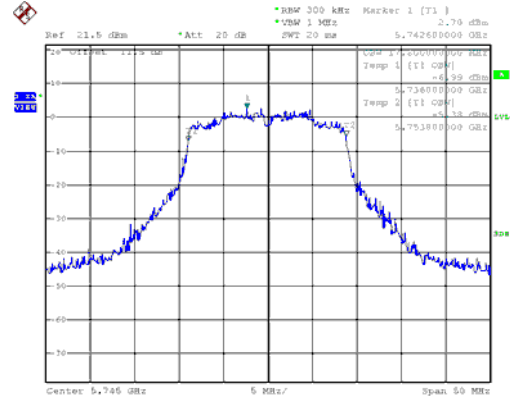




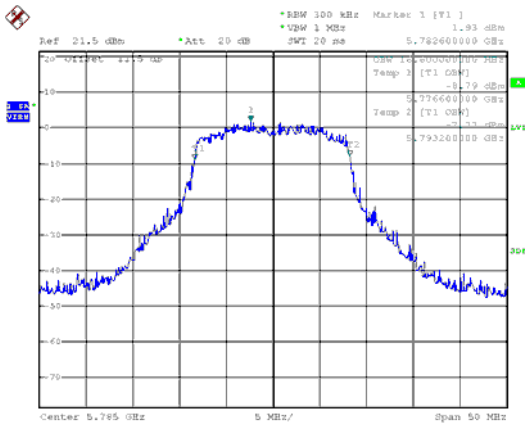
99% Occupied Bandwidth ANT A
Modulation Type: 802.11a (6Mbps)
CH149



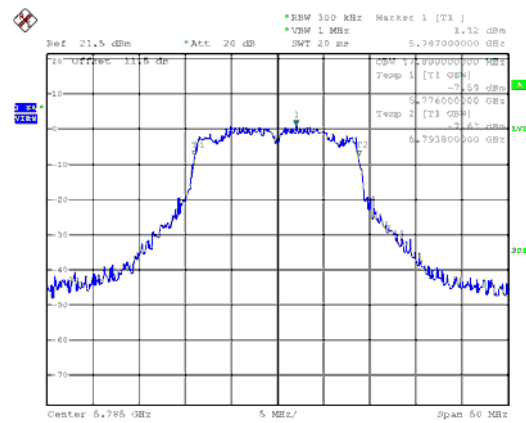
Modulation Type: 802.11ac, VHT20 (6.5Mbps)
CH149



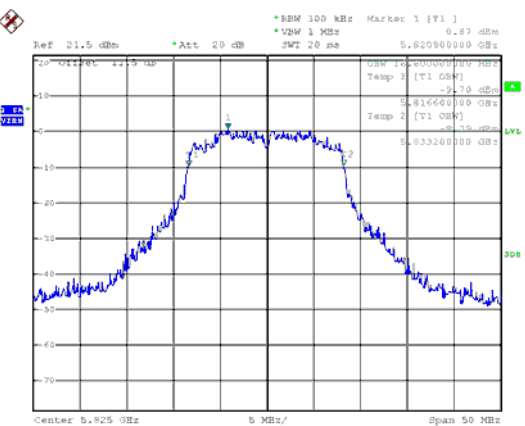
CH157



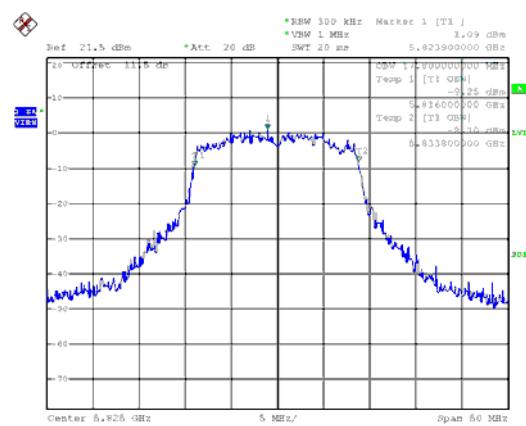
CH157



CH165

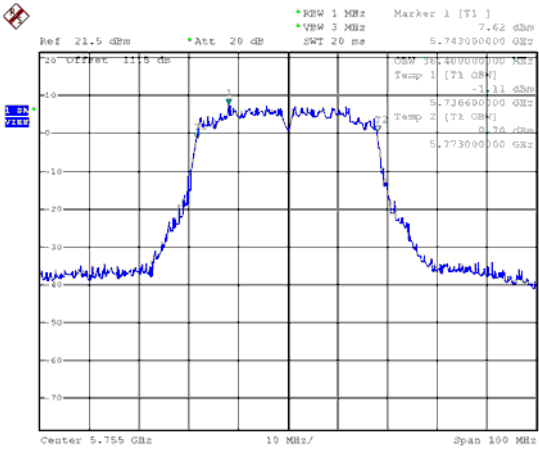


CH165

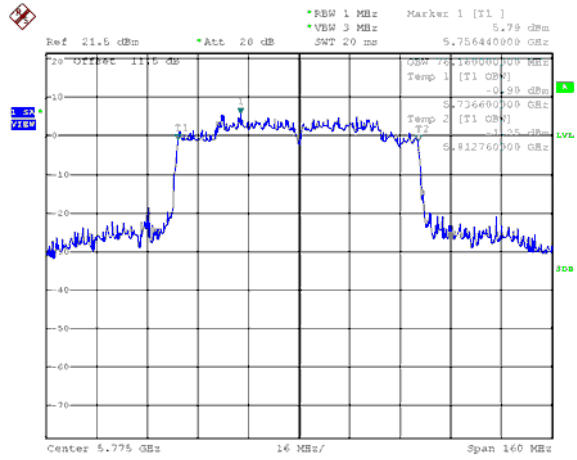




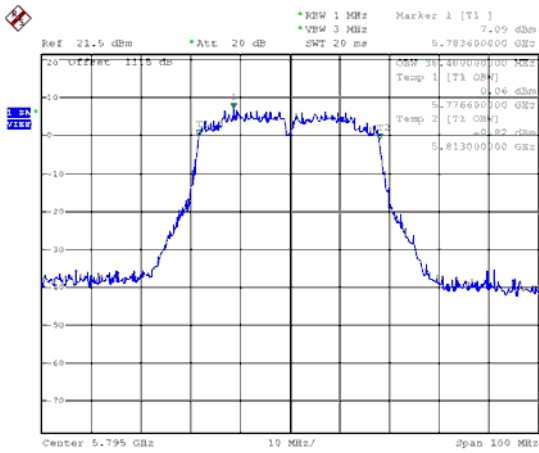
99% Occupied Bandwidth ANT A
Modulation Type: 802.11ac, VHT40 (13.5Mbps)
CH151



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



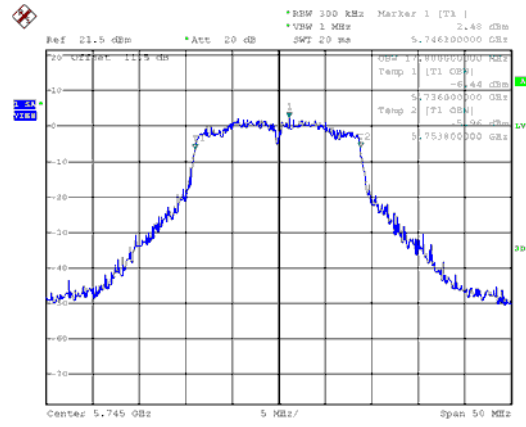
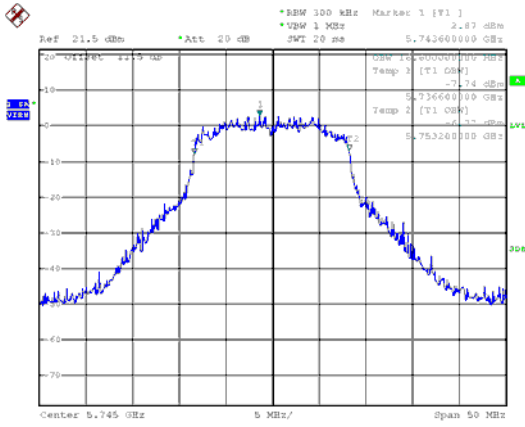
CH159





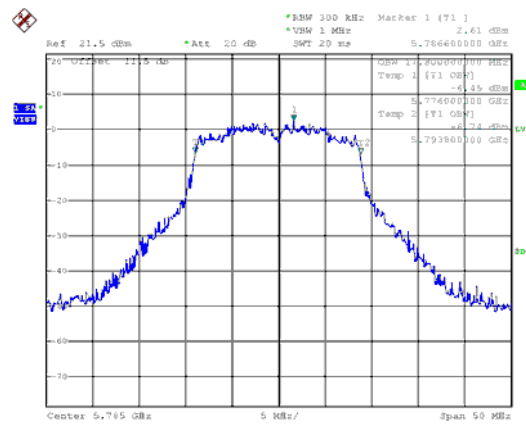
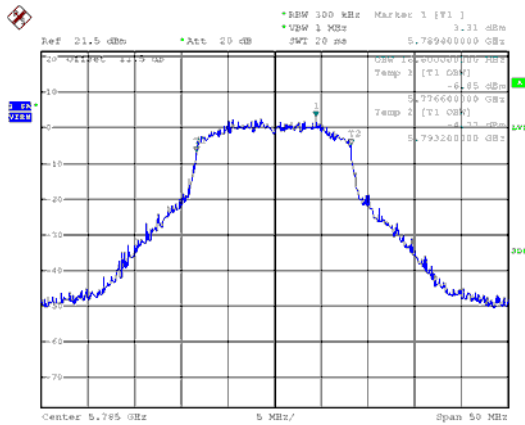
99% Occupied Bandwidth ANT B
Modulation Type: 802.11a (6Mbps)
CH149

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



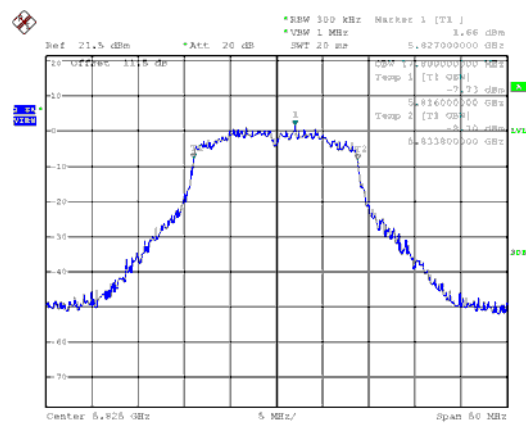
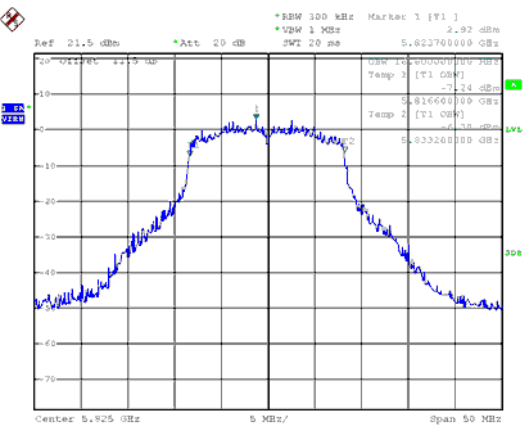
CH157

CH157



CH165

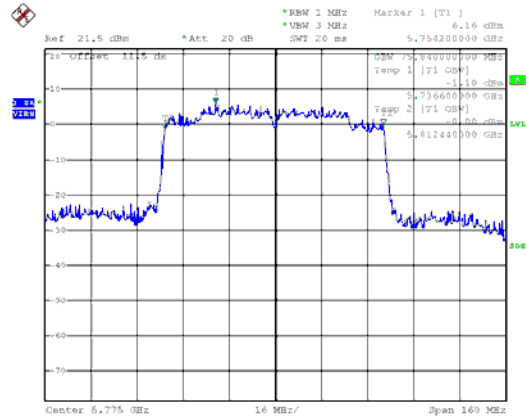
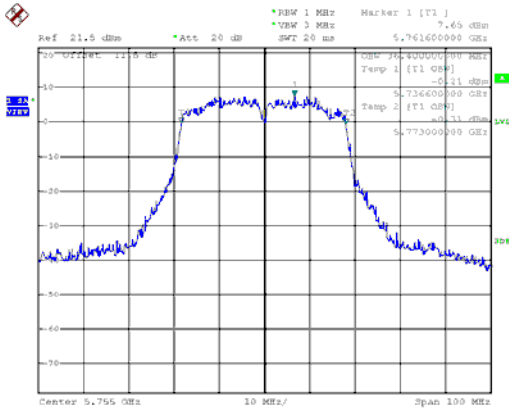
CH165



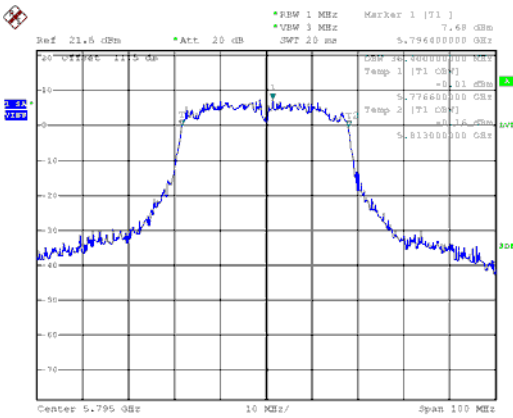


99% Occupied Bandwidth ANT B
Modulation Type: 802.11ac, VHT40 (13.5Mbps)
CH151

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



CH159





9. 26dB Bandwidth & 99% Occupied Bandwidth

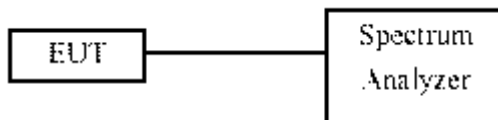
9.1. Test Limit

None; for reporting purposes only.

9.2. Test Procedure

Reference to 789033 D02 General UNII Test Procedures New Rules v01: The transmitter output is connected to a spectrum analyzer with the RBW = approximately 1% of the emission bandwidth, the VBW $\geq 3 \times$ RBW, peak detector and max hold.

9.3. Test Setup Layout



9.4. Test Result and Data (26dB Bandwidth)

In the 5.2G Band

Modulation Type	Channel	Frequency (MHz)	26dB Bandwidth (MHz)	
			ANT A	ANT B
802.11a	36	5180	23.40	22.80
	44	5220	23.30	22.00
	48	5240	23.00	22.50
802.11ac VHT20	36	5180	23.70	22.60
	44	5220	23.30	22.50
	48	5240	23.90	22.80
802.11ac VHT40	38	5190	43.40	43.40
	46	5230	43.00	43.60
802.11ac VHT80	42	5210	82.00	82.00

In the 5.3G Band

Modulation Type	Channel	Frequency (MHz)	26dB Bandwidth (MHz)	
			ANT A	ANT B
802.11a	52	5260	23.20	22.70
	60	5300	23.20	23.00
	64	5320	22.50	23.50
802.11ac VHT20	52	5260	23.20	22.60
	60	5300	23.70	23.10
	64	5320	23.70	23.10
802.11ac VHT40	54	5270	43.20	43.40
	62	5310	43.60	43.20
802.11ac VHT80	58	5290	82.00	81.60



In the 5.5G Band

Modulation Type	Channel	Frequency (MHz)	26dB Bandwidth (MHz)	
			ANT A	ANT B
802.11a	100	5500	23.10	22.40
	116	5580	22.70	22.60
	140	5700	22.60	22.80
802.11ac VHT20	100	5500	23.40	22.30
	116	5580	23.20	23.10
	140	5700	23.20	23.40
802.11ac VHT40	102	5510	43.20	43.00
	110	5550	43.00	42.60
	134	5670	43.00	43.80
802.11ac VHT80	106	5530	82.00	81.60



9.5. Test Result and Data (99% Occupied Bandwidth)

In the 5.2G Band

Modulation Type	Channel	Frequency (MHz)	99% Bandwidth (MHz)	
			ANT A	ANT B
802.11a	36	5180	16.60	16.60
	44	5220	16.70	16.60
	48	5240	16.60	16.60
802.11ac VHT20	36	5180	17.80	17.70
	44	5220	17.80	17.70
	48	5240	17.80	17.70
802.11ac VHT40	38	5190	36.40	36.40
	46	5230	36.20	36.40
802.11ac VHT80	42	5210	75.60	75.60

In the 5.3G Band

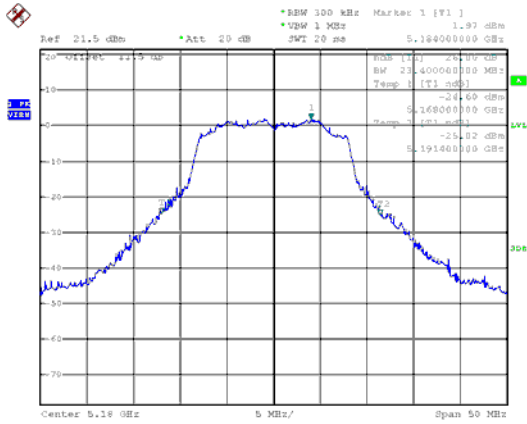
Modulation Type	Channel	Frequency (MHz)	99% Bandwidth (MHz)	
			ANT A	ANT B
802.11a	52	5260	16.60	16.60
	60	5300	16.60	16.60
	64	5320	16.60	16.60
802.11ac VHT20	52	5260	17.80	17.80
	60	5300	17.80	17.70
	64	5320	17.80	17.60
802.11ac VHT40	54	5270	36.40	36.40
	62	5310	36.40	36.40
802.11ac VHT80	58	5290	76.00	75.20

In the 5.5G Band

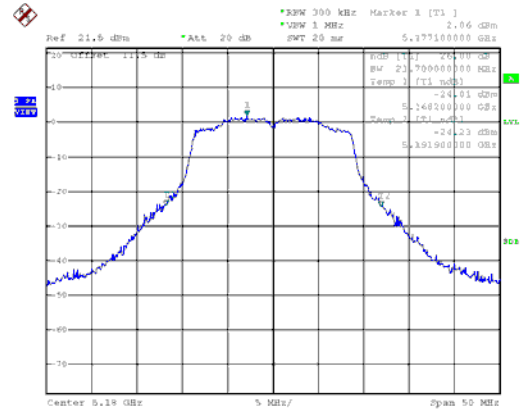
Modulation Type	Channel	Frequency (MHz)	99% Bandwidth (MHz)	
			ANT A	ANT B
802.11a	100	5500	16.60	16.50
	116	5580	16.60	16.50
	140	5700	16.60	16.60
802.11ac VHT20	100	5500	17.80	17.80
	116	5580	17.80	17.70
	140	5700	17.80	17.80
802.11ac VHT40	102	5510	36.40	36.40
	110	5550	36.40	36.40
	134	5670	36.20	36.40
802.11ac VHT80	106	5530	75.60	75.60



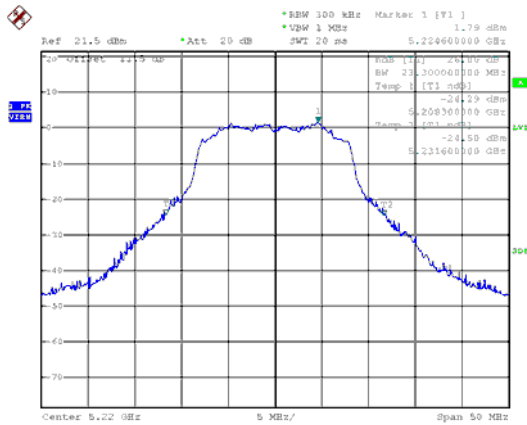
26dB Bandwidth Band 1, ANT A
Modulation Type: 802.11a (6Mbps)
CH36



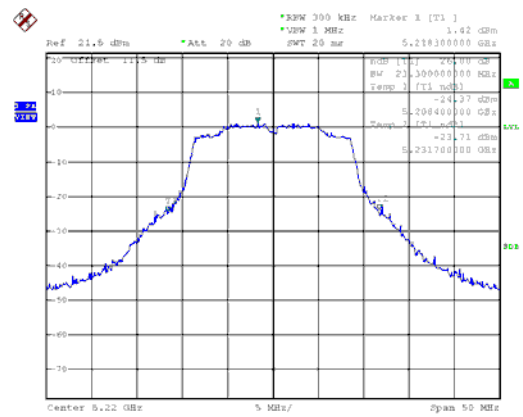
Modulation Type: 802.11ac VHT20 (6.5Mbps)
CH36



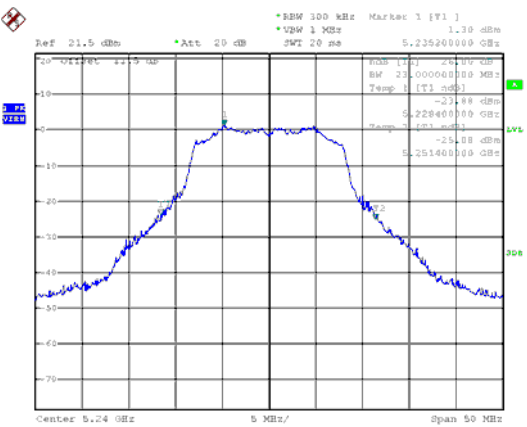
CH44



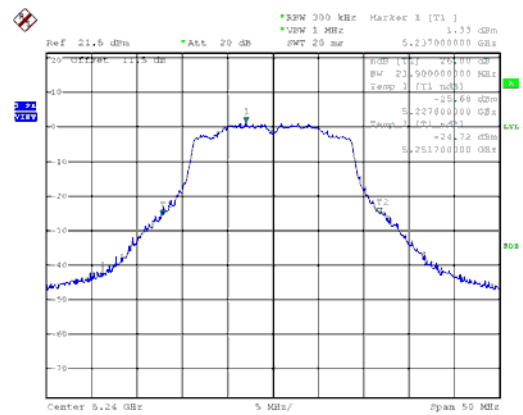
CH44



CH48

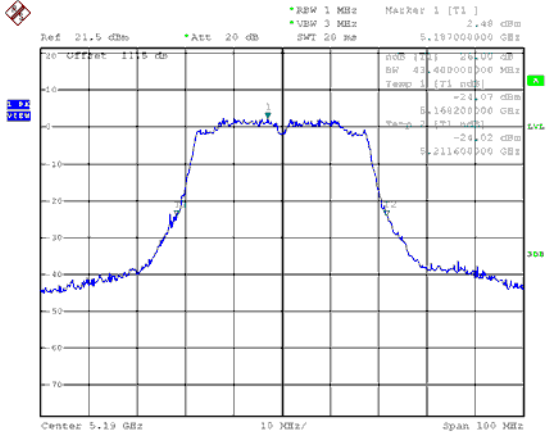


CH48

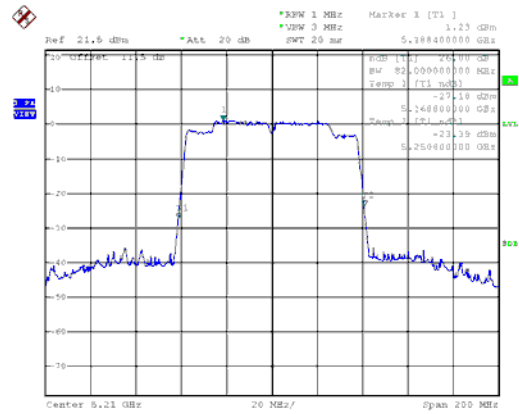




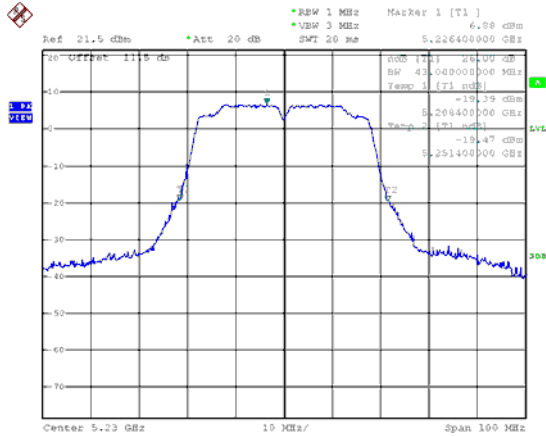
26dB Bandwidth Band 1, ANT A
Modulation Type: 802.11ac VHT40 (6.5Mbps)
CH38



Modulation Type: 802.11ac VHT80 (13.5Mbps)
CH42



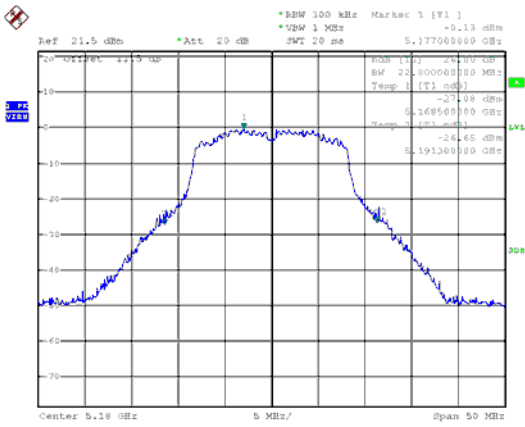
CH46



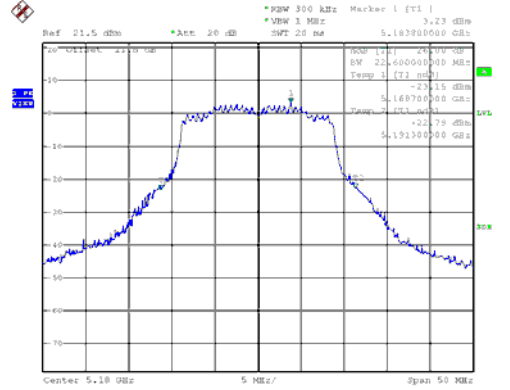


26dB Bandwidth Band 1, ANT B

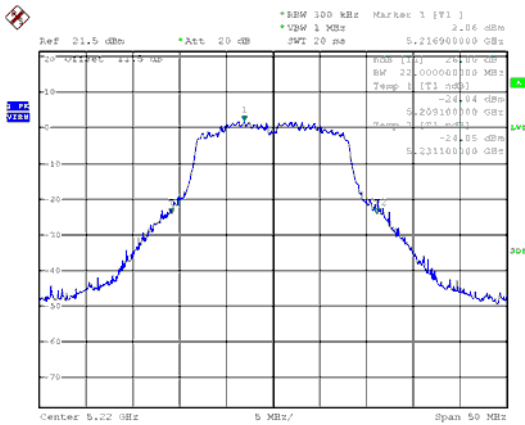
Modulation Type: 802.11a (6Mbps)
CH36



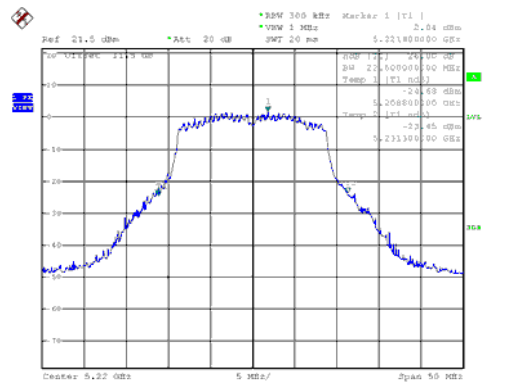
Modulation Type: 802.11ac VHT20 (6.5Mbps)
CH36



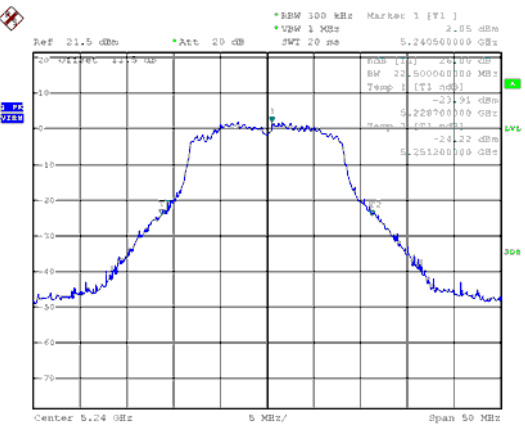
CH44



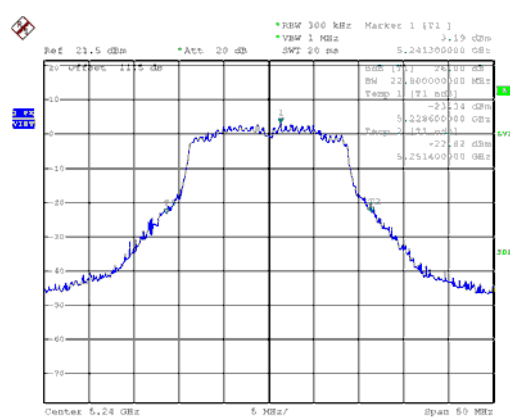
CH44



CH48



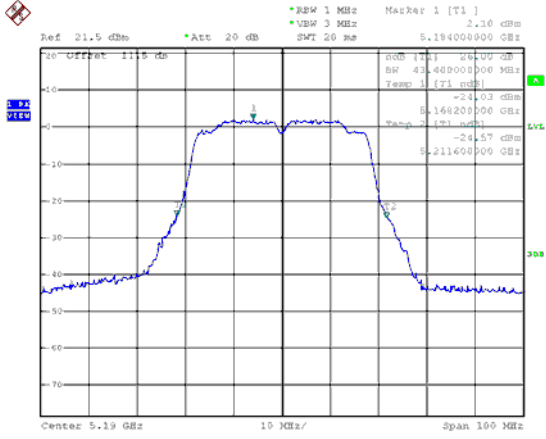
CH48



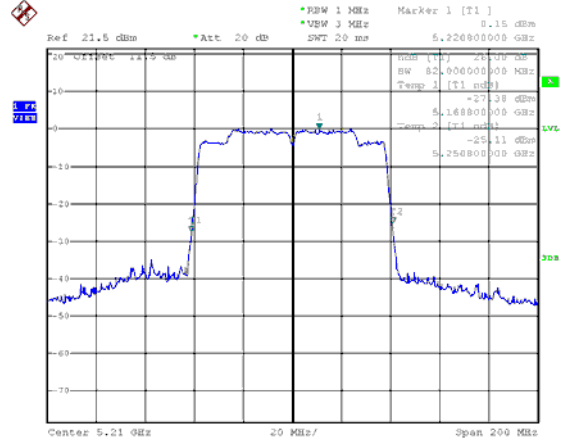


26dB Bandwidth Band 1, ANT B

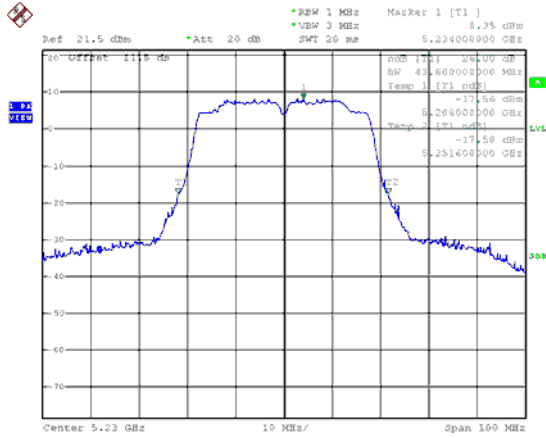
Modulation Type: 802.11ac VHT40 (6.5Mbps)
CH38



Modulation Type: 802.11ac VHT80 (13.5Mbps)
CH42

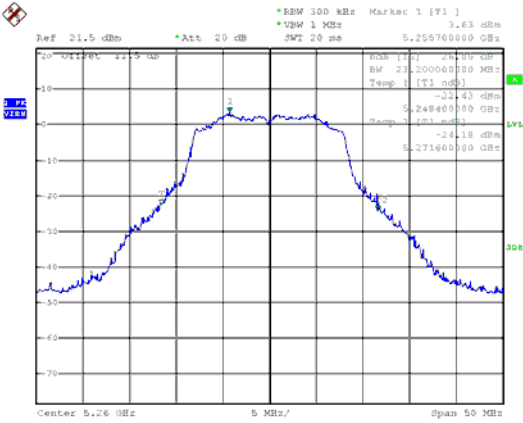


CH46

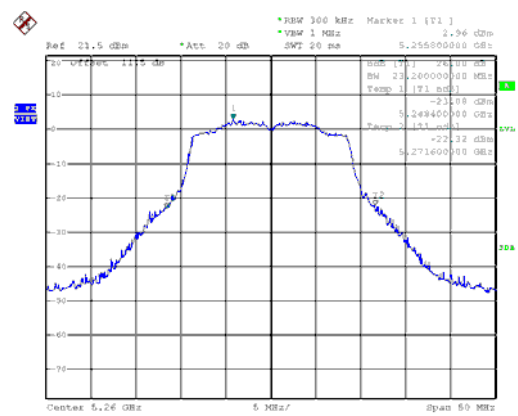




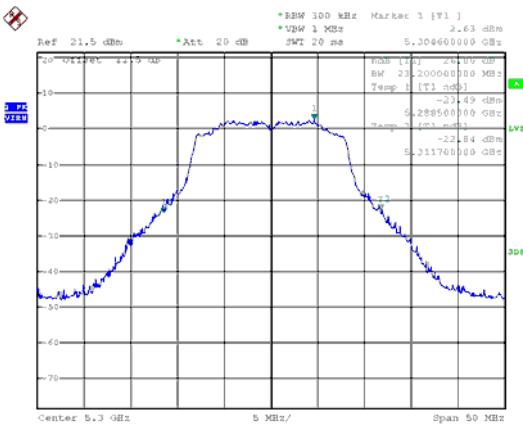
26dB Bandwidth Band 2, ANT A
Modulation Type: 802.11a (6Mbps)
CH52



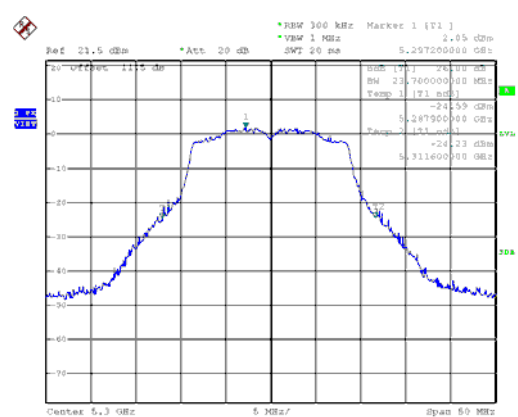
Modulation Type: 802.11ac VHT20 (6.5Mbps)
CH52



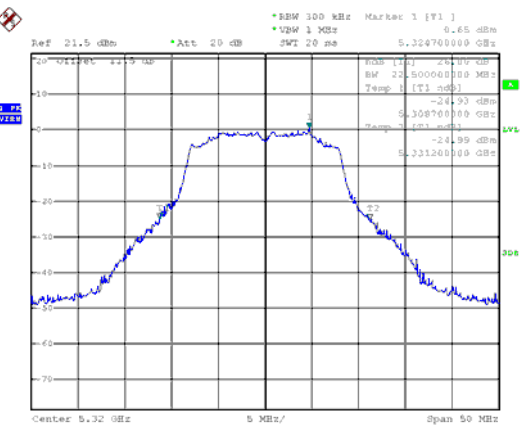
CH60



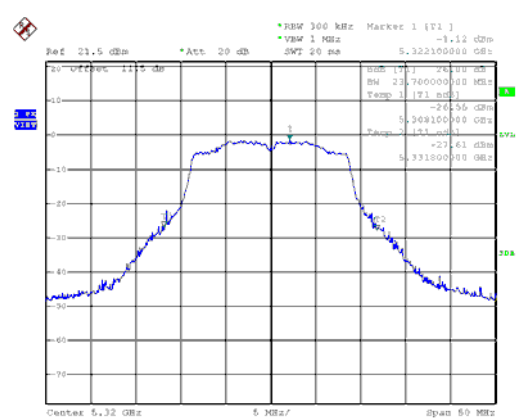
CH60



CH64

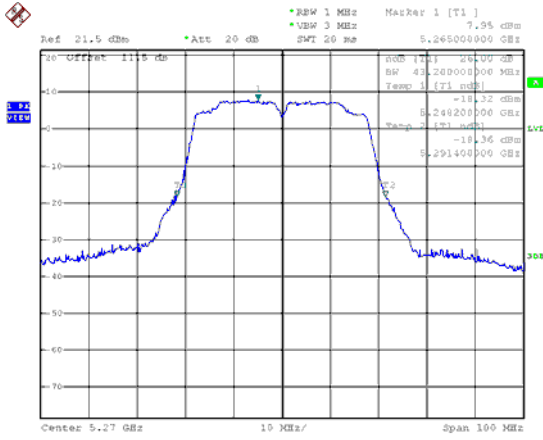


CH64

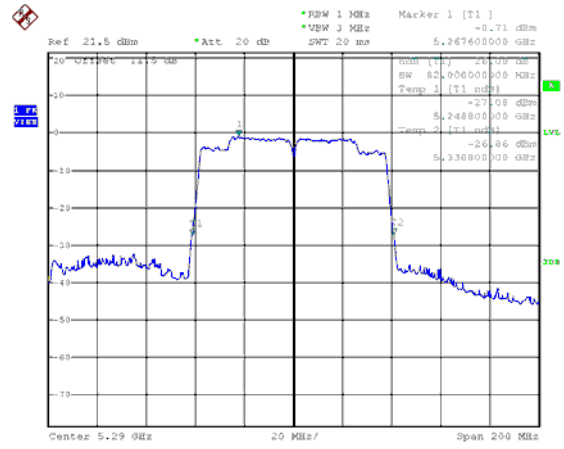




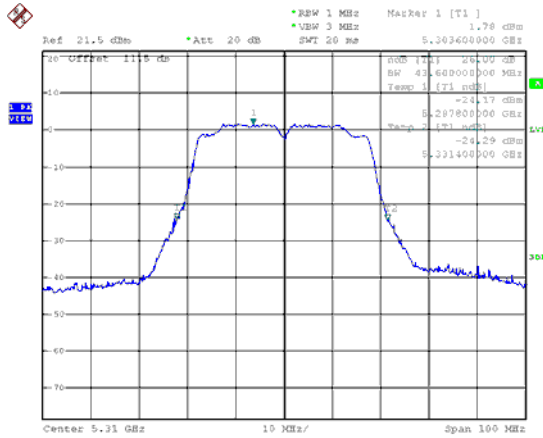
26dB Bandwidth Band 2, ANT A
Modulation Type: 802.11ac VHT40 (6.5Mbps)
CH54



Modulation Type: 802.11ac VHT80 (13.5Mbps)
CH58



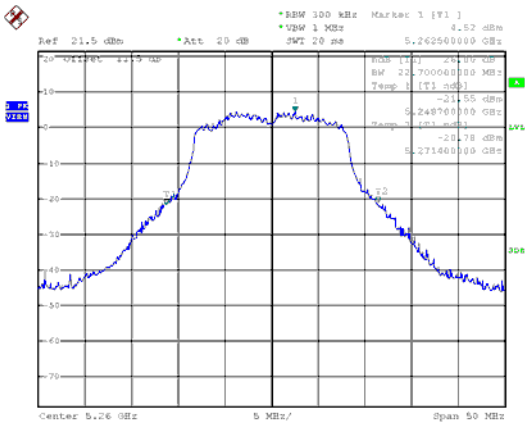
CH62



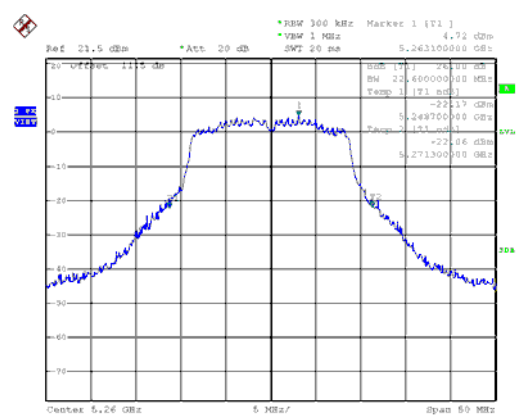


26dB Bandwidth Band 2, ANT B

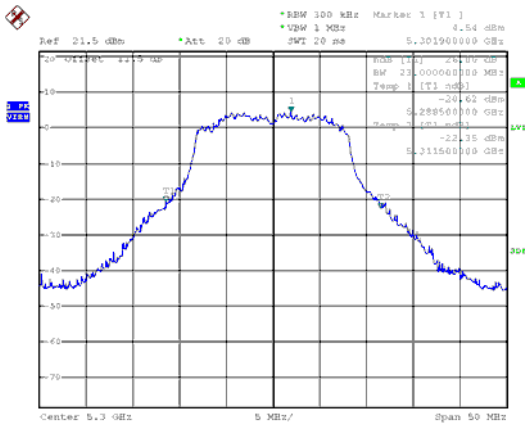
Modulation Type: 802.11a (6Mbps)
CH52



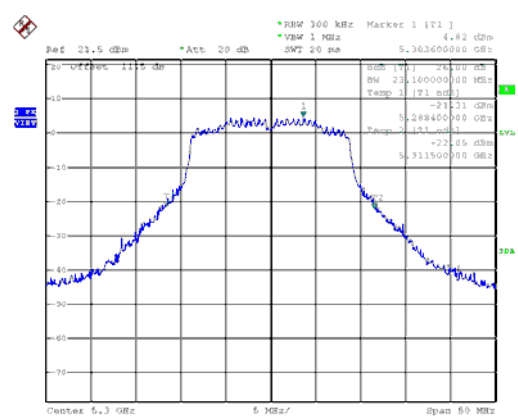
Modulation Type: 802.11ac VHT20 (6.5Mbps)
CH52



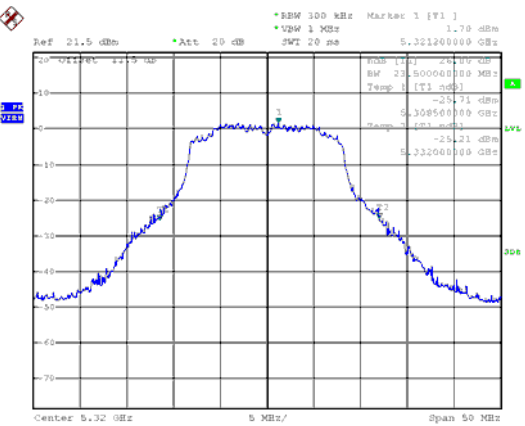
CH60



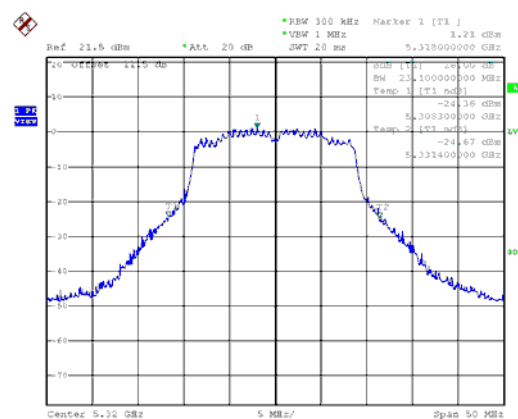
CH60



CH64



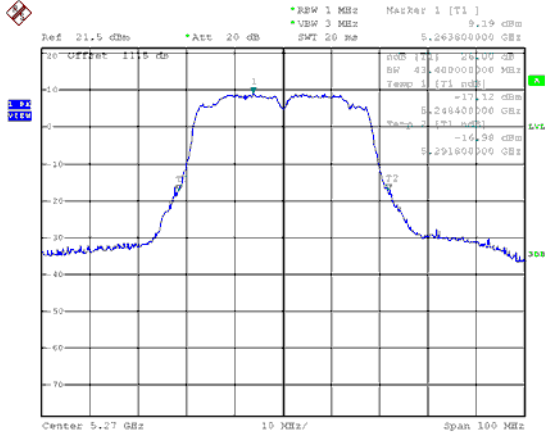
CH64



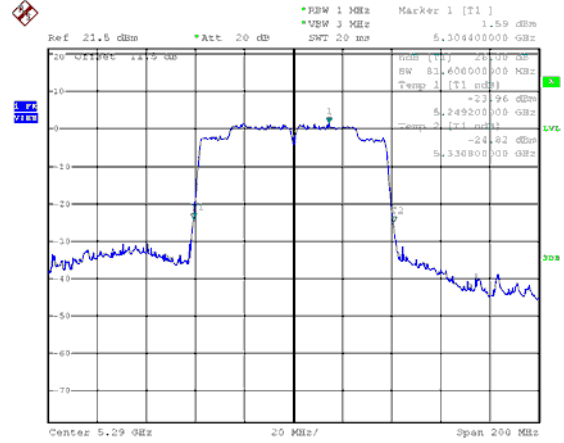


26dB Bandwidth Band 2, ANT B

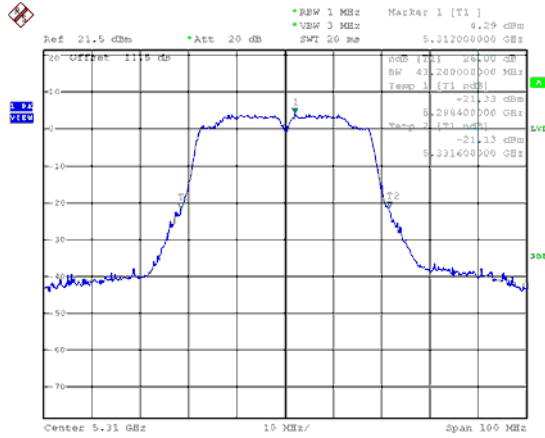
Modulation Type: 802.11ac VHT40 (6.5Mbps)
CH54



Modulation Type: 802.11ac VHT80 (13.5Mbps)
CH58

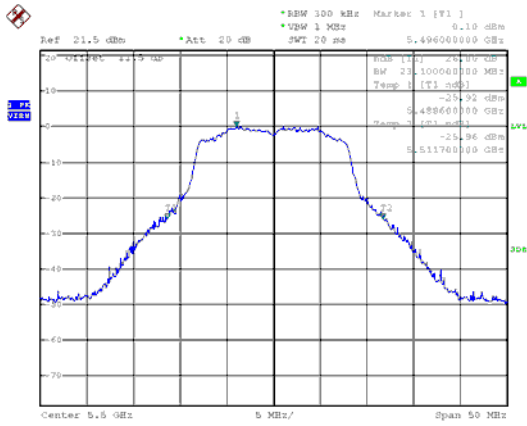


CH62

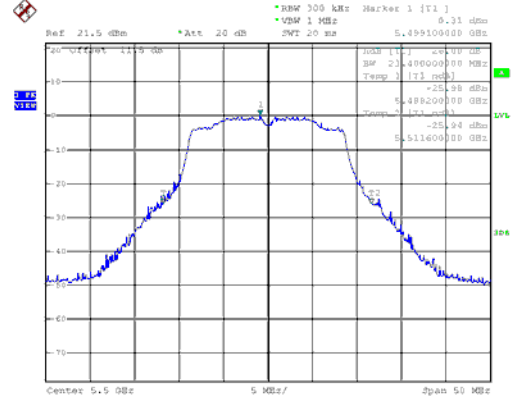




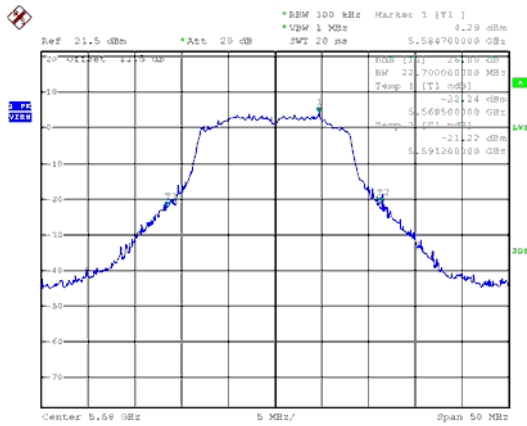
26dB Bandwidth Band 3, ANT A
Modulation Type: 802.11a (6Mbps)
CH100



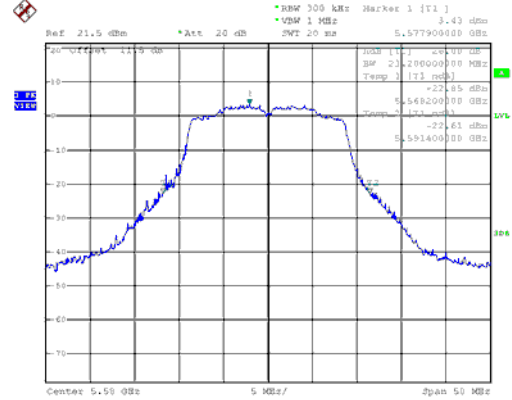
Modulation Type: 802.11ac VHT20 (6.5Mbps)
CH100



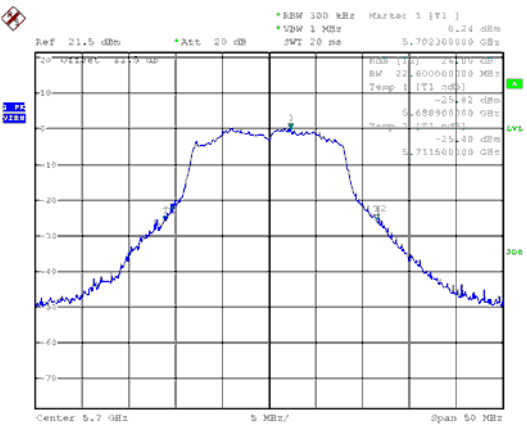
CH116



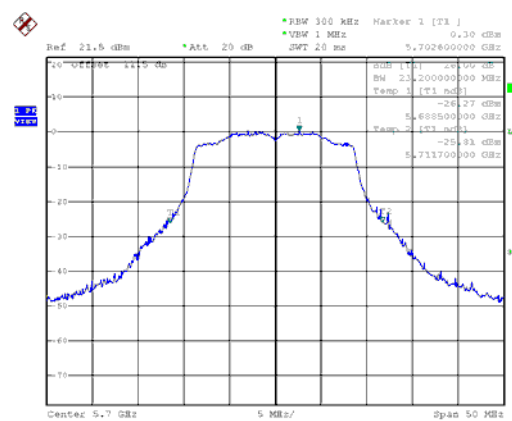
CH116



CH140

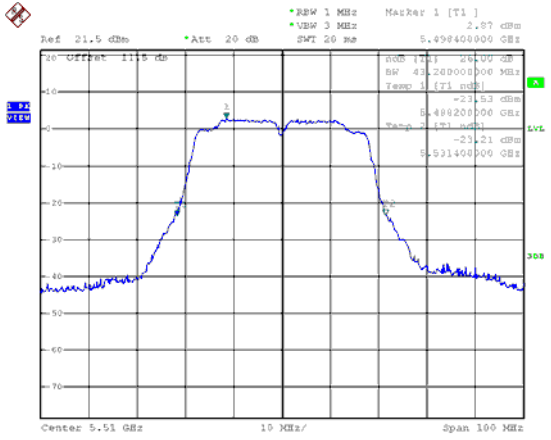


CH140

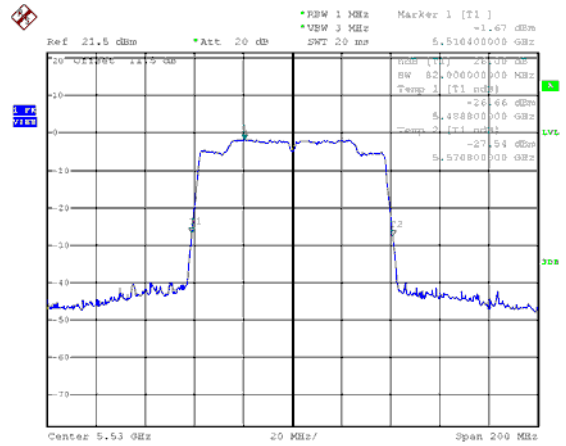




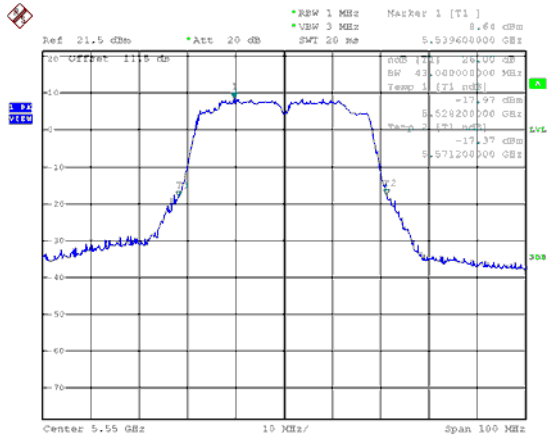
26dB Bandwidth Band 3, ANT A
Modulation Type: 802.11ac VHT40 (6.5Mbps)
CH102



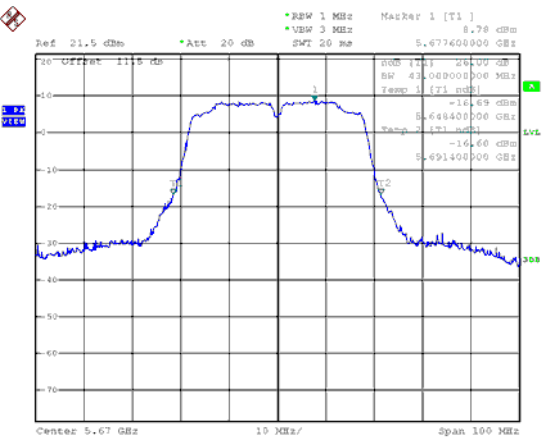
Modulation Type: 802.11ac VHT80 (13.5Mbps)
CH106



CH110

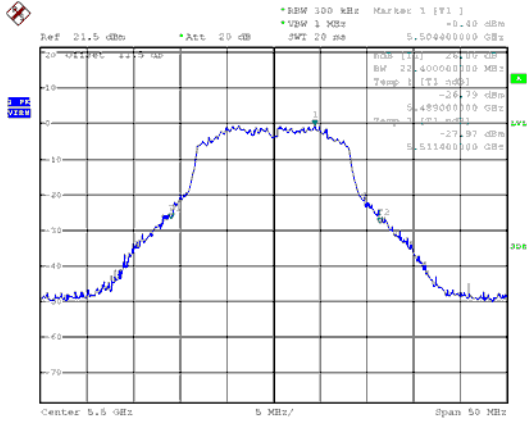


CH134

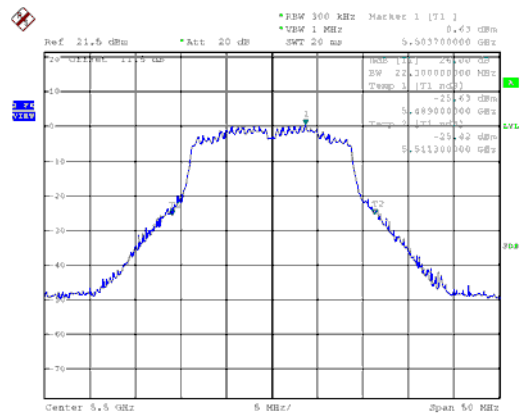




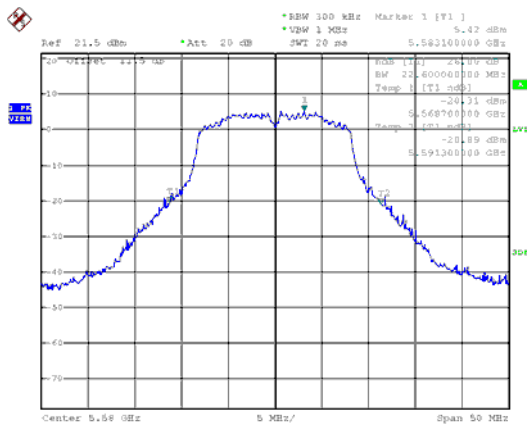
26dB Bandwidth Band 3, ANT B
Modulation Type: 802.11a (6Mbps)
CH100



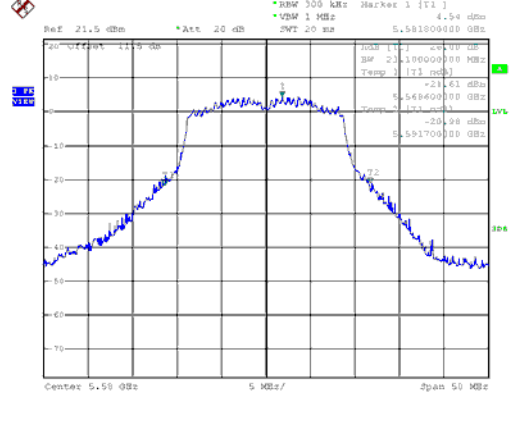
Modulation Type: 802.11ac VHT20 (6.5Mbps)
CH100



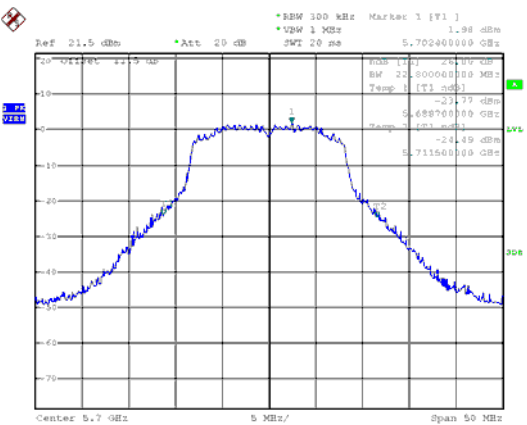
CH116



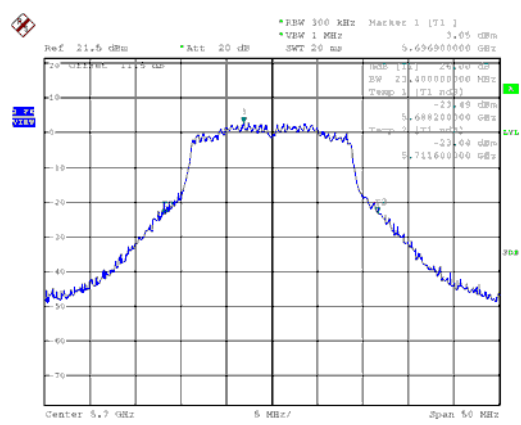
CH116



CH140

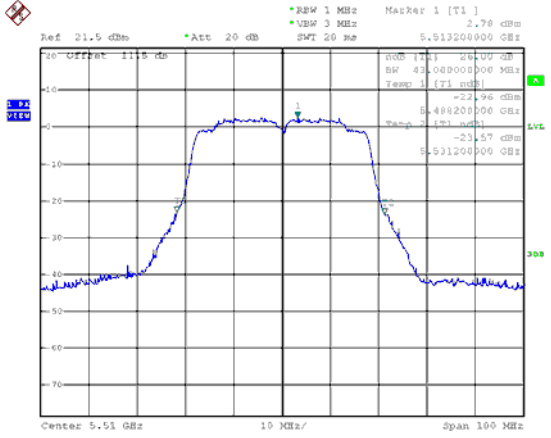


CH140

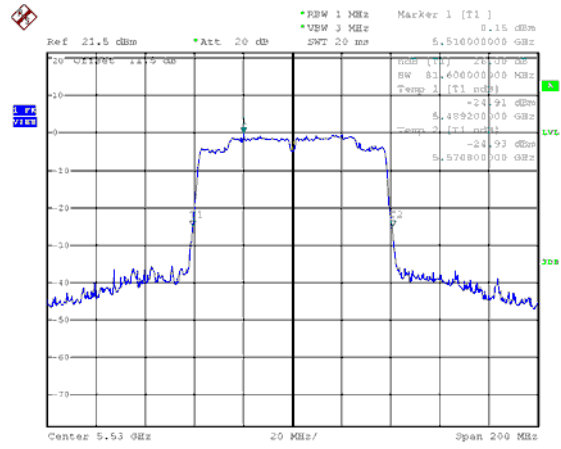




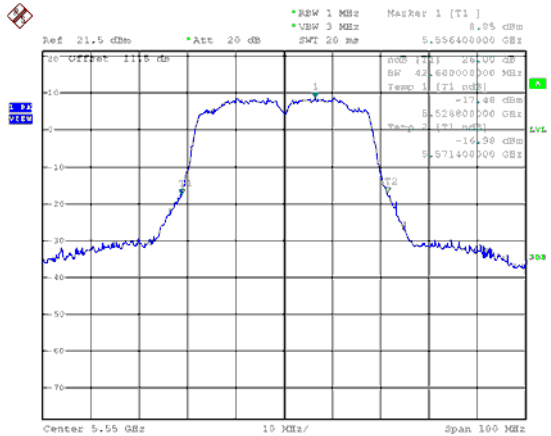
26dB Bandwidth Band 3, ANT B
Modulation Type: 802.11ac VHT40 (6.5Mbps)
CH102



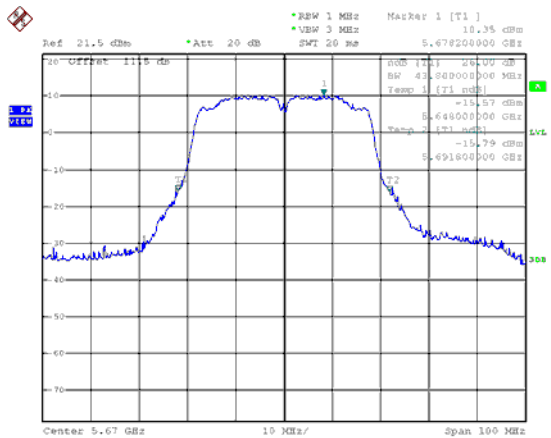
Modulation Type: 802.11ac VHT80 (13.5Mbps)
CH106



CH110

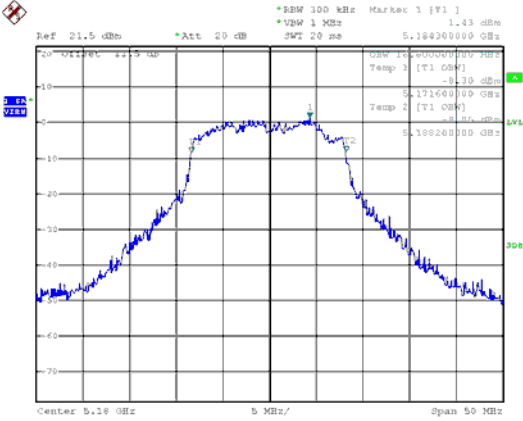


CH134

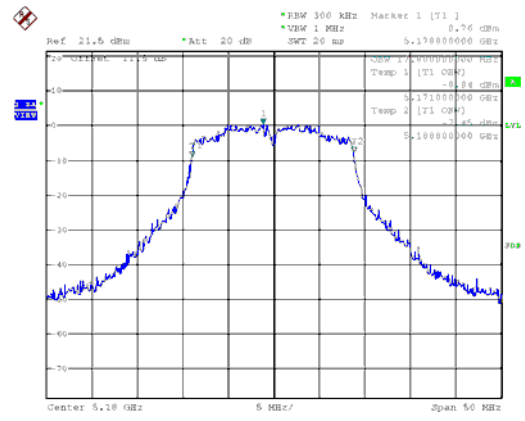




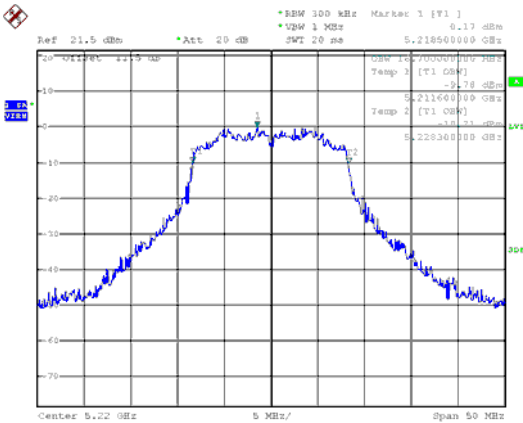
99% Bandwidth Band 1, ANT A
Modulation Type: 802.11a (6Mbps)
CH36



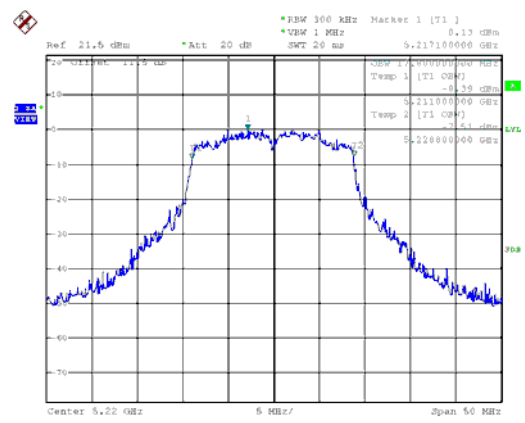
Modulation Type: 802.11ac VHT20 (6.5Mbps)
CH36



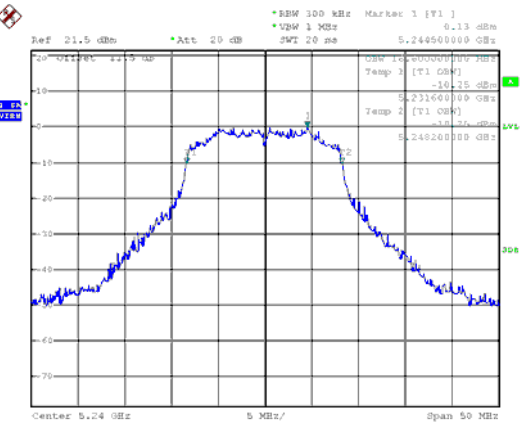
CH44



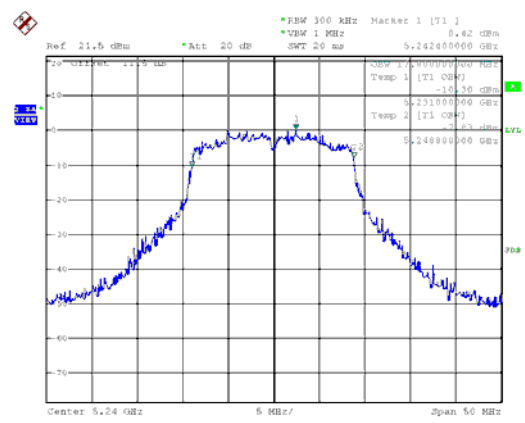
CH44



CH48

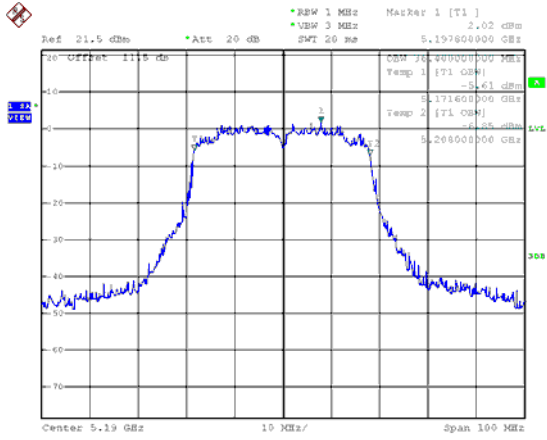


CH48

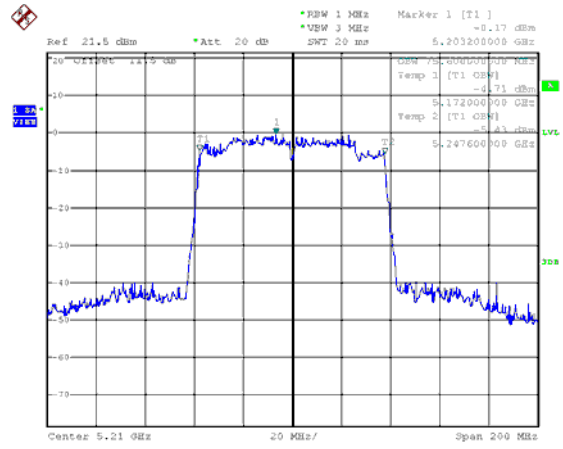




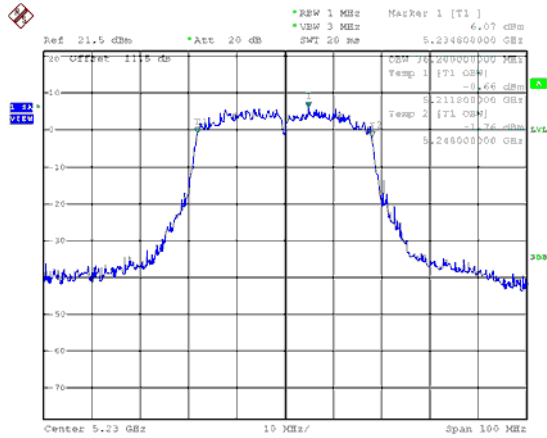
99% Bandwidth Band 1, ANT A
Modulation Type: 802.11ac VHT40 (6.5Mbps)
CH38



Modulation Type: 802.11ac VHT80 (13.5Mbps)
CH42



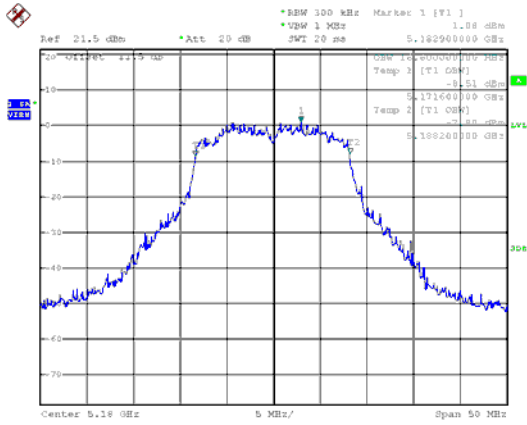
CH46



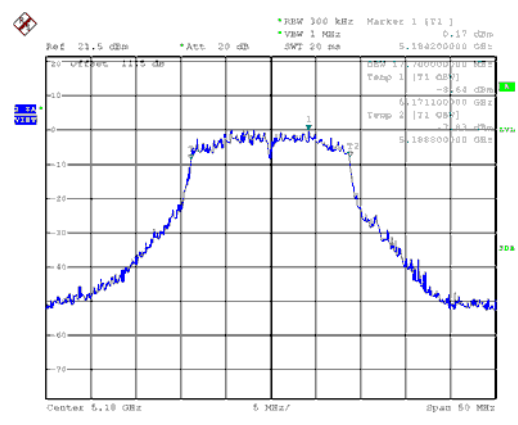


99% Bandwidth Band 1, ANT B

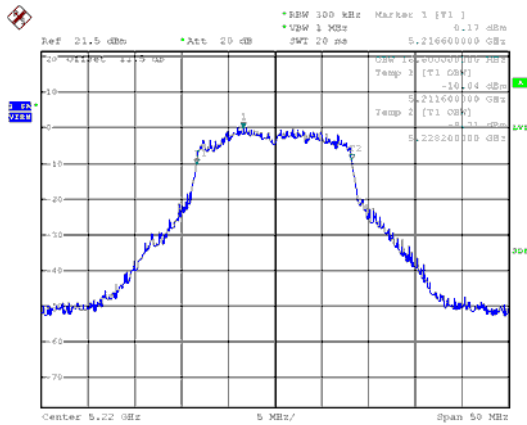
Modulation Type: 802.11a (6Mbps)
CH36



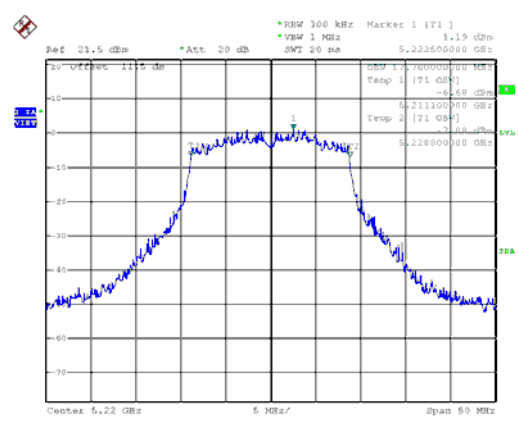
Modulation Type: 802.11ac VHT20 (6.5Mbps)
CH36



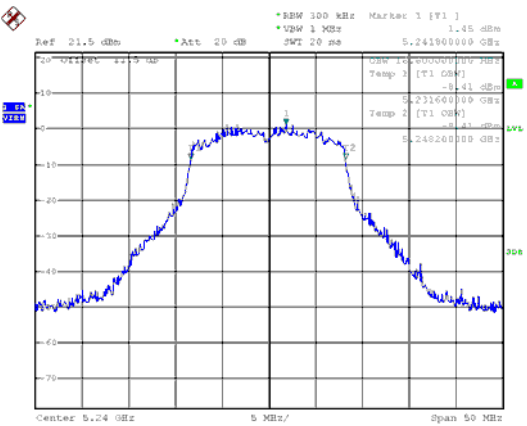
CH44



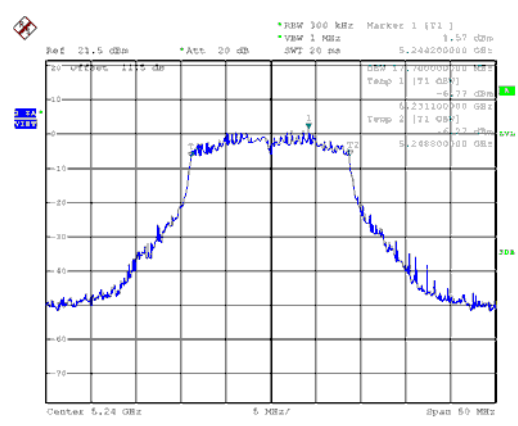
CH44



CH48



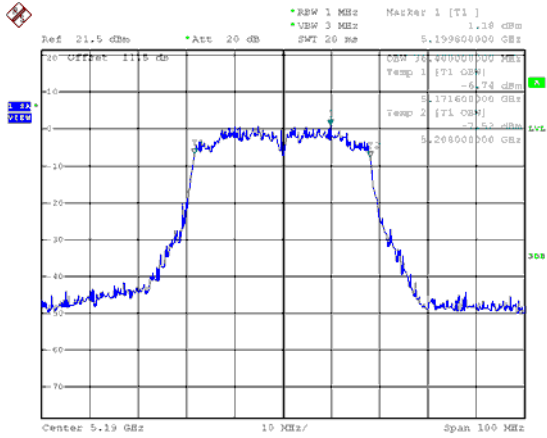
CH48



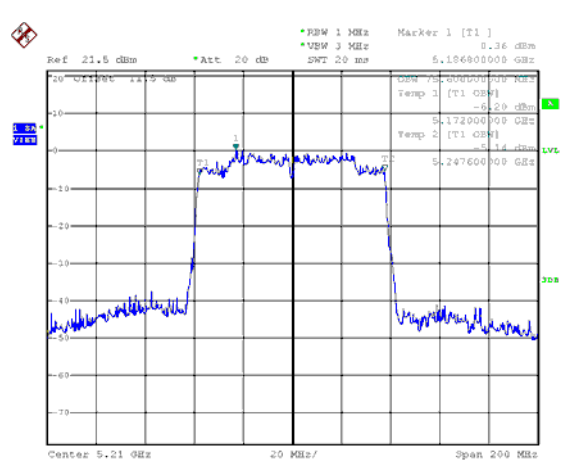


99% Bandwidth Band 1, ANT B

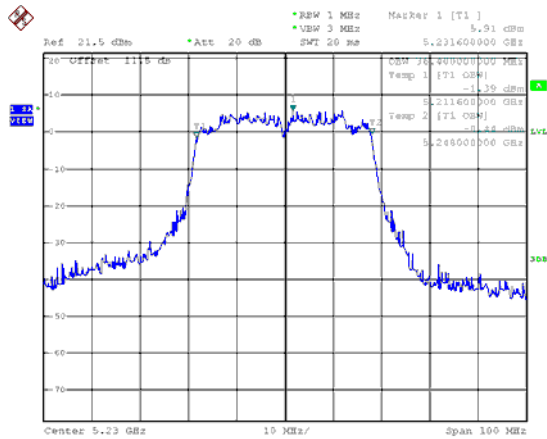
Modulation Type: 802.11ac VHT40 (6.5Mbps)
CH38



Modulation Type: 802.11ac VHT80 (13.5Mbps)
CH42



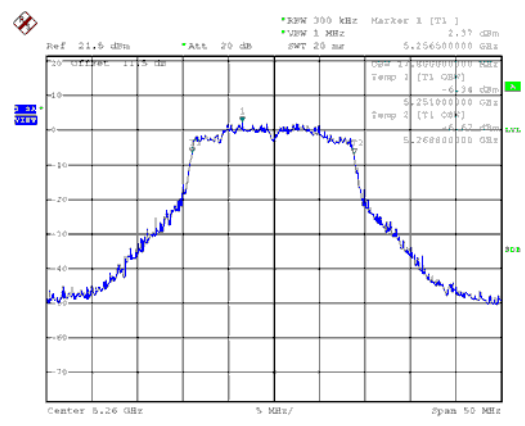
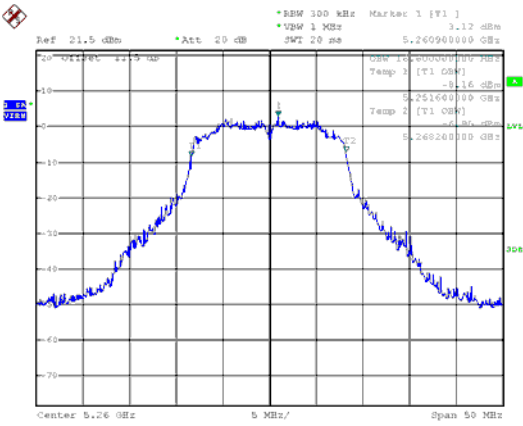
CH46





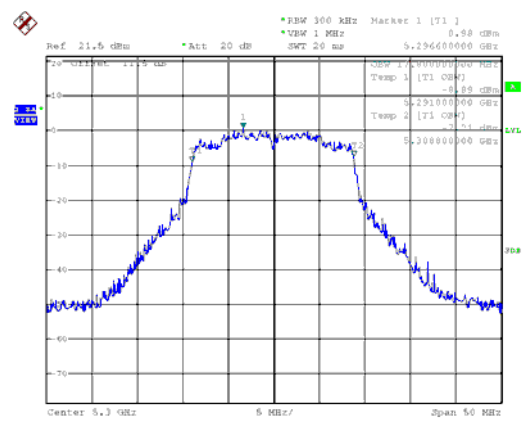
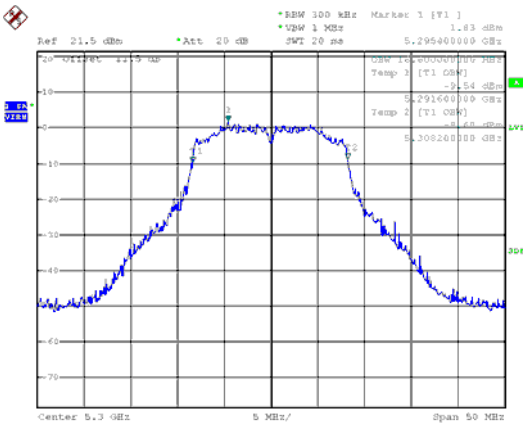
99% Bandwidth Band 2, ANT A
Modulation Type: 802.11a (6Mbps)
CH52

Modulation Type: 802.11ac VHT20 (6.5Mbps)
CH52



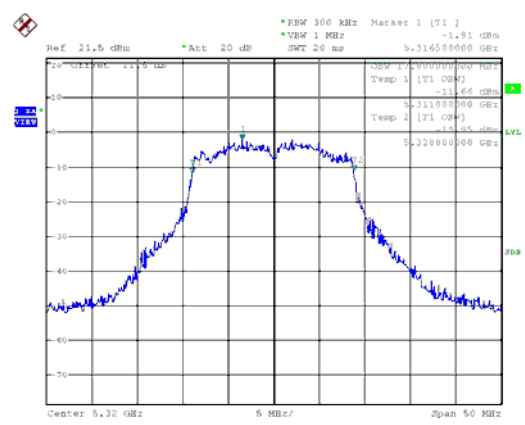
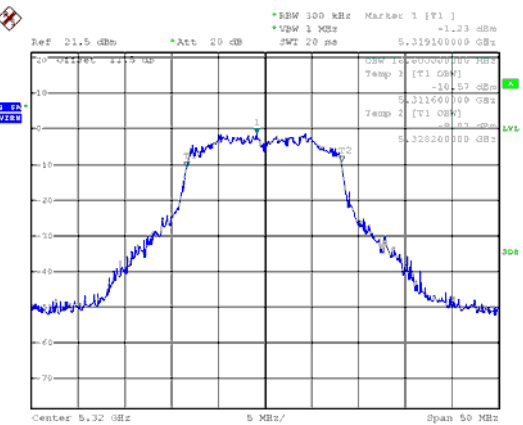
CH60

CH60



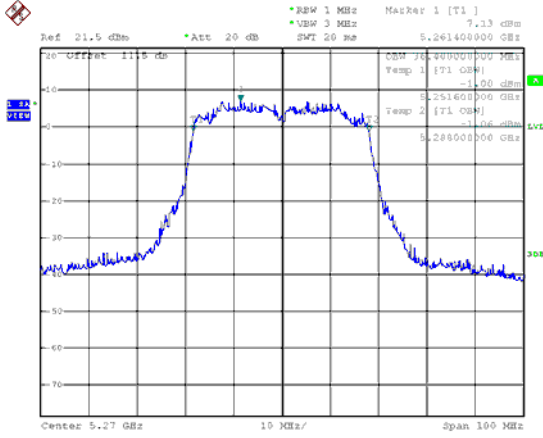
CH64

CH64

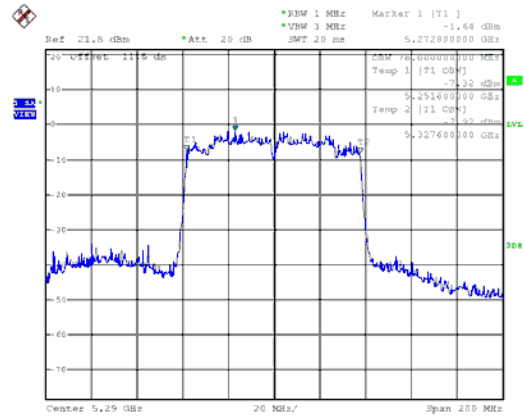




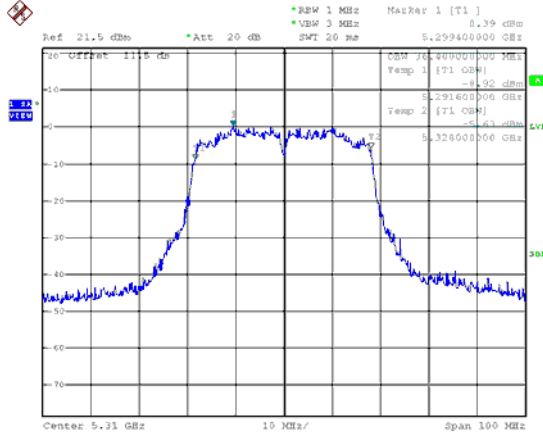
99% Bandwidth Band 2, ANT A
Modulation Type: 802.11ac VHT40 (6.5Mbps)
CH54



Modulation Type: 802.11ac VHT80 (13.5Mbps)
CH58



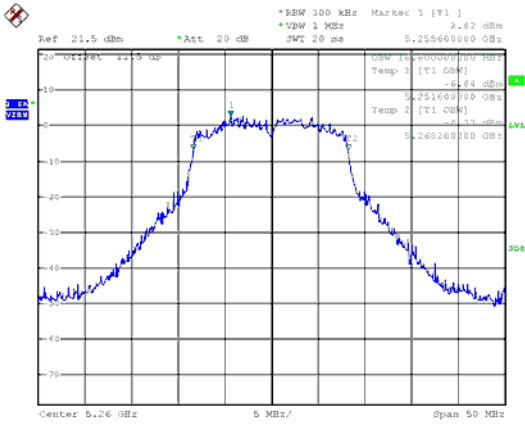
CH62



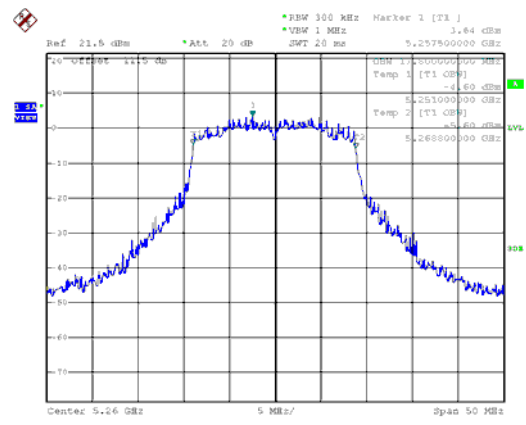


99% Bandwidth Band 2, ANT B

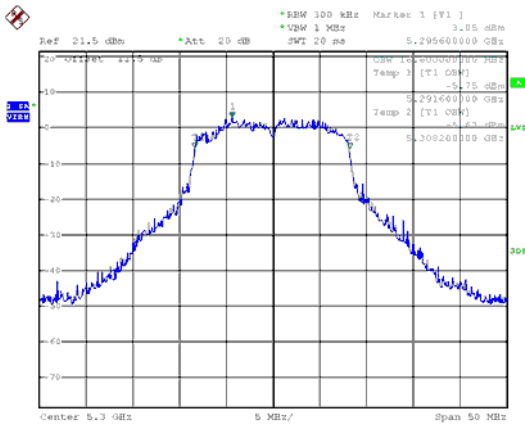
Modulation Type: 802.11a (6Mbps)
CH52



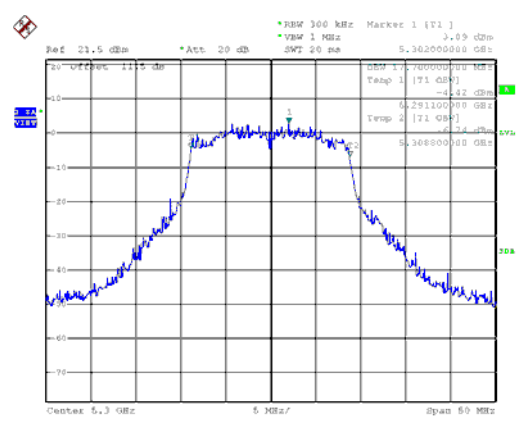
Modulation Type: 802.11ac VHT20 (6.5Mbps)
CH52



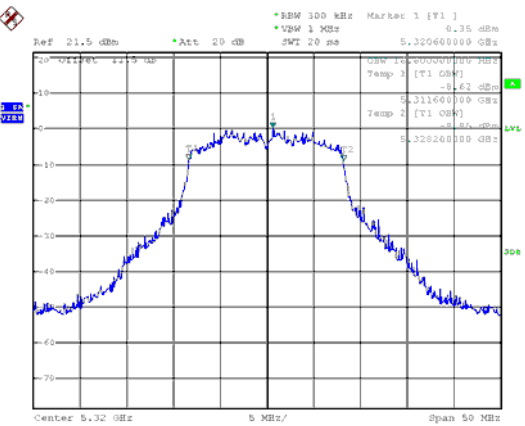
CH60



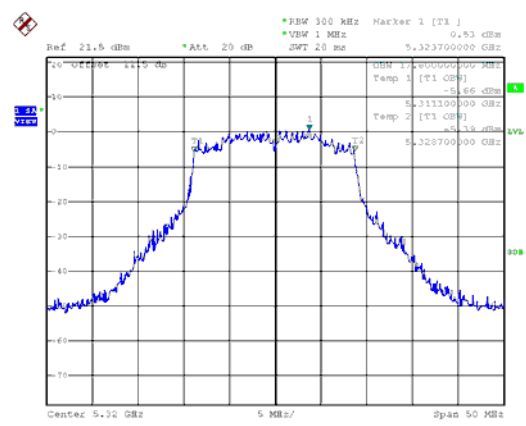
CH60



CH64



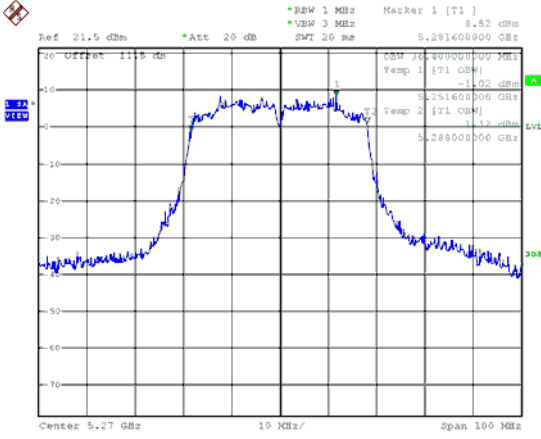
CH64



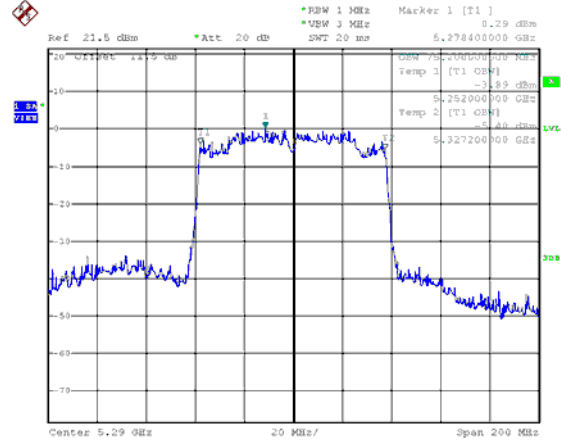


99% Bandwidth Band 2, ANT B

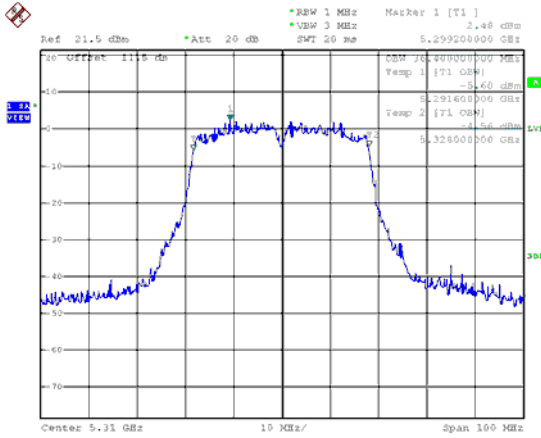
Modulation Type: 802.11ac VHT40 (6.5Mbps)
CH54



Modulation Type: 802.11ac VHT80 (13.5Mbps)
CH58



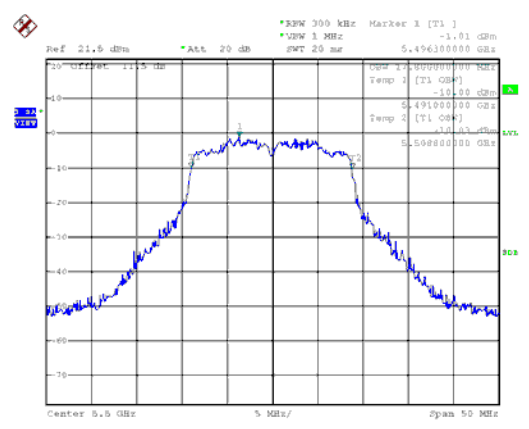
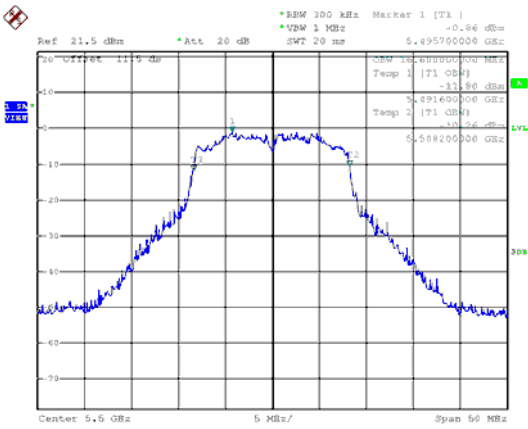
CH62





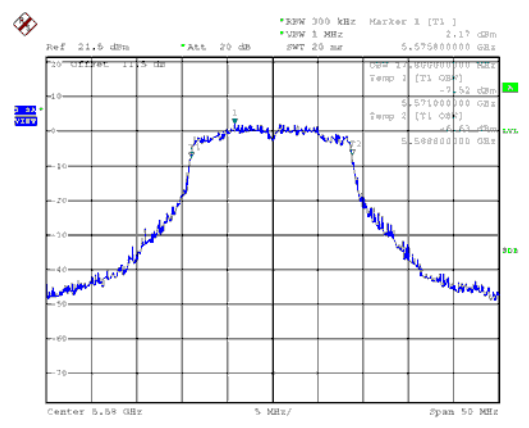
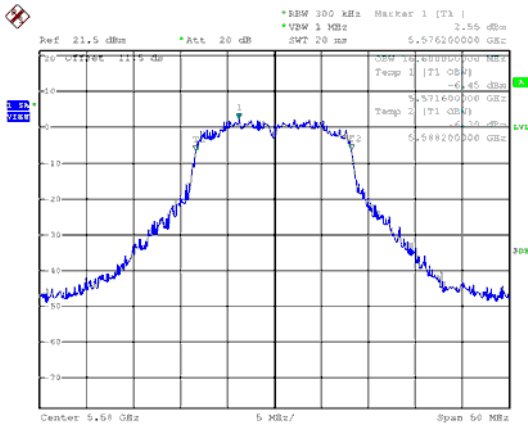
99% Bandwidth Band 3, ANT A
Modulation Type: 802.11a (6Mbps)
CH100

Modulation Type: 802.11ac VHT20 (6.5Mbps)
CH100



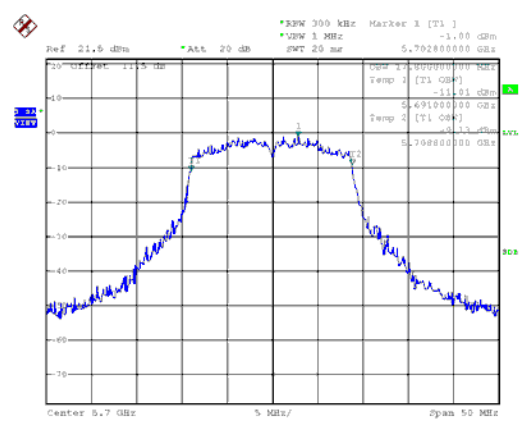
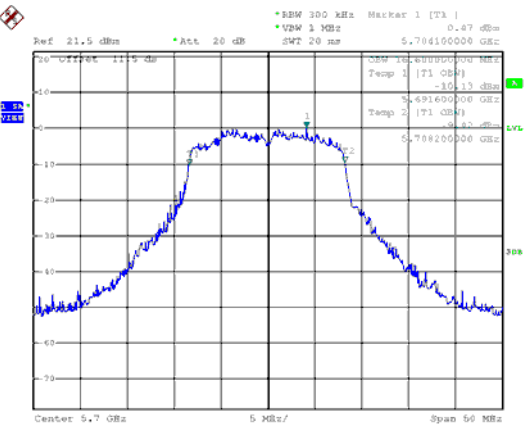
CH116

CH116



CH140

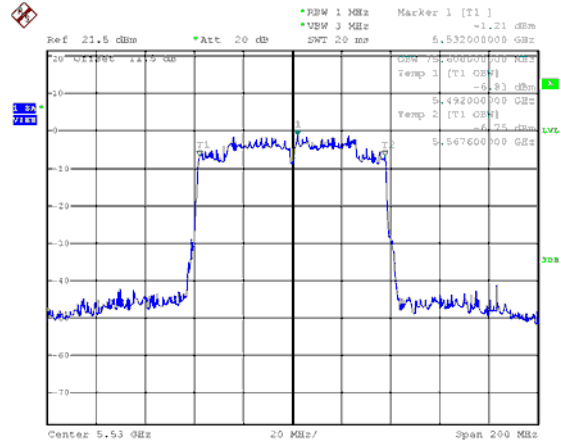
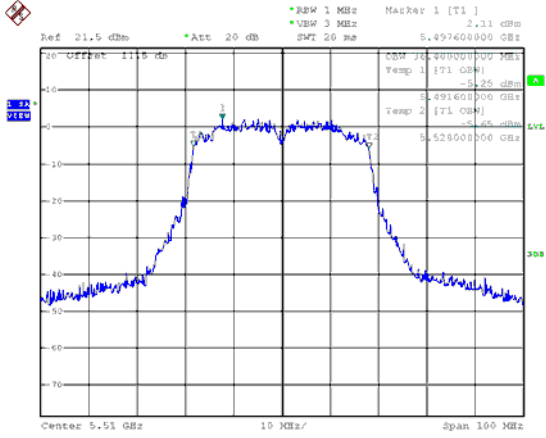
CH140



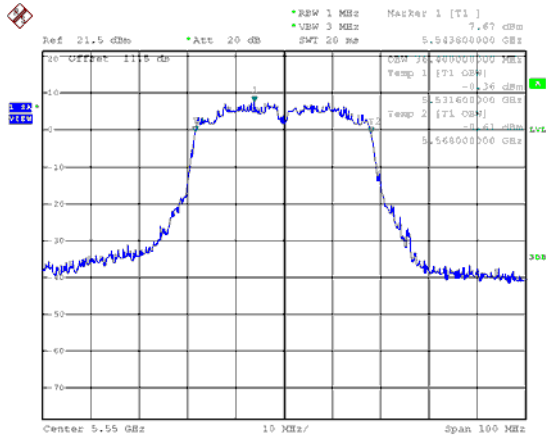


99% Bandwidth Band 3, ANT A
Modulation Type: 802.11ac VHT40 (6.5Mbps)
CH102

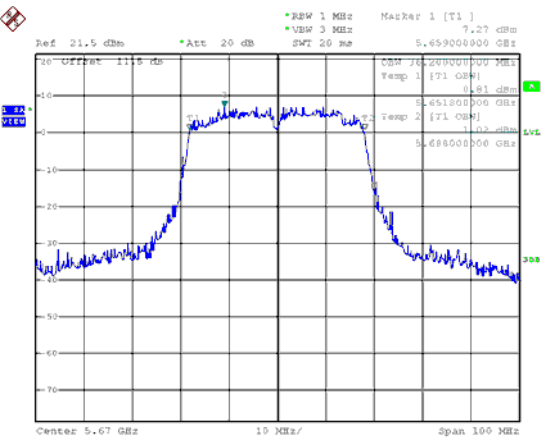
Modulation Type: 802.11ac VHT80 (13.5Mbps)
CH106



CH110



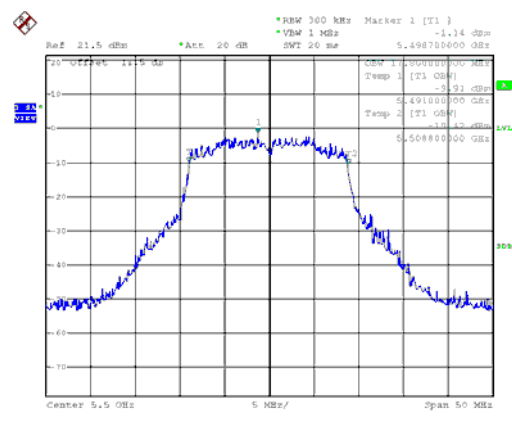
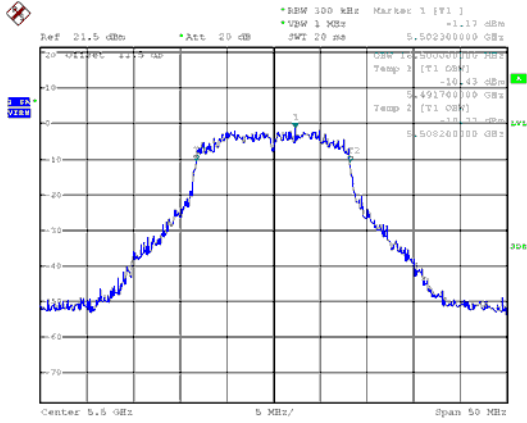
CH134





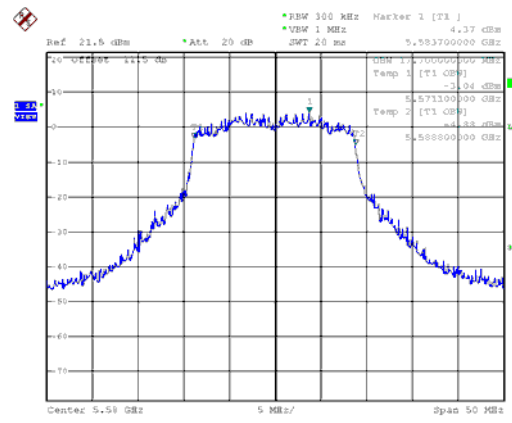
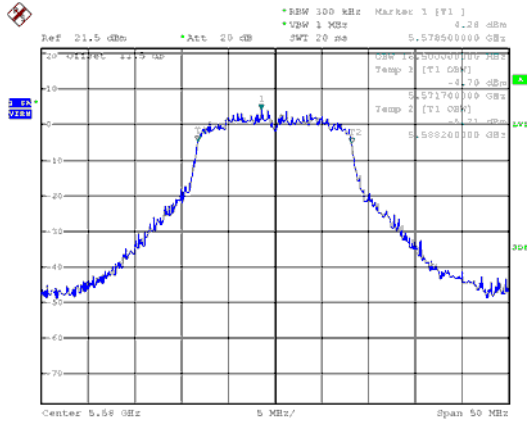
99% Bandwidth Band 3, ANT B
Modulation Type: 802.11a (6Mbps)
CH100

Modulation Type: 802.11ac VHT20 (6.5Mbps)
CH100



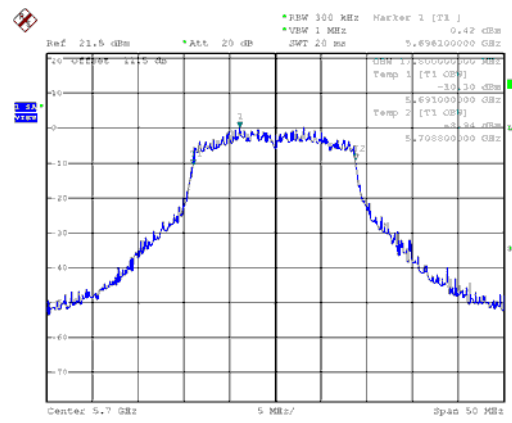
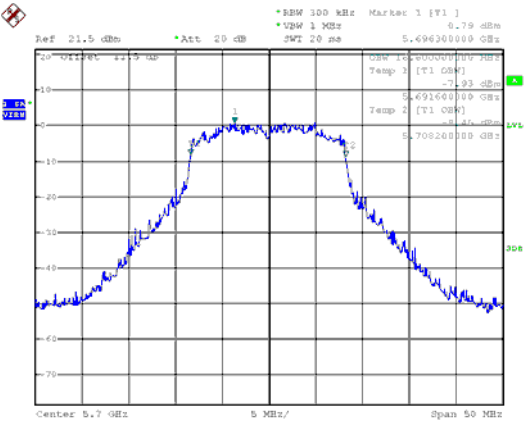
CH116

CH116



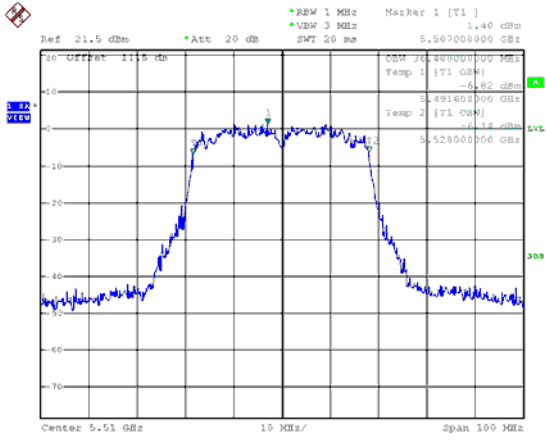
CH140

CH140

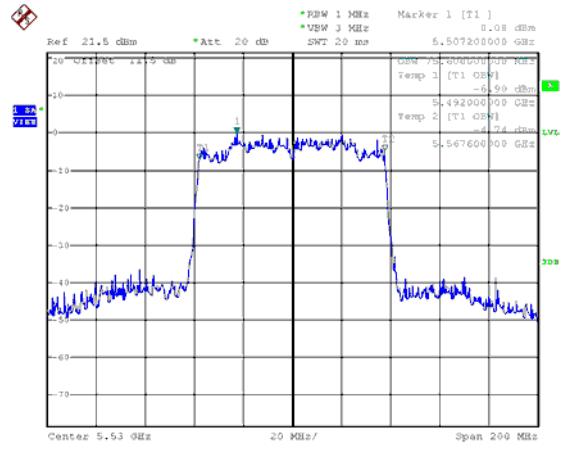




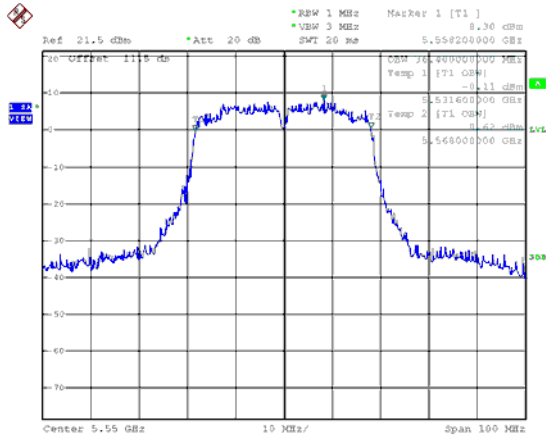
99% Bandwidth Band 3, ANT B
Modulation Type: 802.11ac VHT40 (6.5Mbps)
CH102



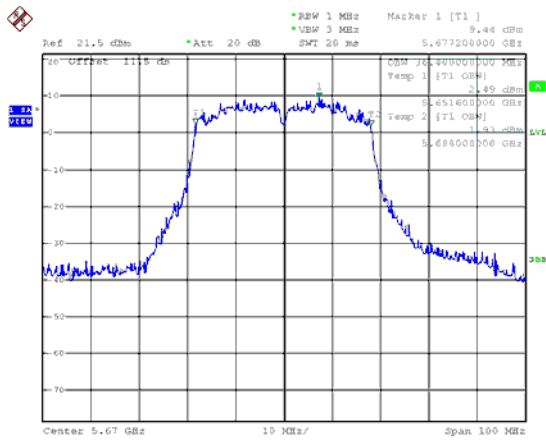
Modulation Type: 802.11ac VHT80 (13.5Mbps)
CH106



CH110



CH134







10. Average Power

10.1. Test Limit

Output Power:

Frequency Band	Limit	
<input checked="" type="checkbox"/> 5.15~5.25GHz		
Operating Mode		
<input type="checkbox"/>	Outdoor access point	The maximum conducted output power over the frequency band of operation shall not exceed 1 W (30dBm) provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30degrees as measured from the horizon must not exceed 125 mW (21 dBm).
<input type="checkbox"/>	Indoor access point	The maximum conducted output power over the frequency band of operation shall not exceed 1 W (30dBm) provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
<input type="checkbox"/>	Fixed point-to-point access points	The maximum conducted output power over the frequency band of operation shall not exceed 1 W (30dBm). Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi.
<input type="checkbox"/>	client devices	The maximum conducted output power over the frequency band of operation shall not exceed 250 mW (24dBm) provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.



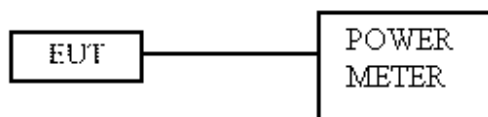
Frequency Band		Limit
<input checked="" type="checkbox"/>	5.25-5.35 GHz	The maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW (24dBm) or 11 dBm 10 log B, where B is the 26 dB emission bandwidth in megahertz. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
<input checked="" type="checkbox"/>	5.470-5.725 GHz	
<input checked="" type="checkbox"/>	5.725~5.85 GHz	The maximum conducted output power over the frequency band of operation shall not exceed 1 W (30dBm). If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power.

10.2. Test Procedure

The transmitter output is connected to a power meter.

The cable assembly insertion loss of 11.5 dB (including 10 dB pad and 1.5 dB cable) was entered as an offset in the power meter to allow for direct reading of power.

10.3. Test Setup Layout





10.4. Test Result and Data

In the 5.2GHz Band

Modulation Type	Data Rate	Setting	Channel	Frequency (MHz)	Measured value of each antenna port (dBm)		Total power (dBm)	Total power (mW)	FCC Limit (dBm)
					ANT A	ANT B			
11a	6 Mbps	Default	36	5180	9.09	8.89	12.00	15.854	24.00
11a	6 Mbps	Default	44	5220	8.07	8.28	11.19	13.142	24.00
11a	6 Mbps	Default	48	5240	9.04	9.56	12.32	17.053	24.00
11n HT20	MCS 0	Default	36	5180	9.68	9.04	12.38	17.306	24.00
11n HT20	MCS 0	Default	44	5220	9.16	8.85	12.02	15.915	24.00
11n HT20	MCS 0	Default	48	5240	8.44	8.87	11.67	14.691	24.00
11n HT40	MCS 0	Default	38	5190	8.86	8.05	11.48	14.074	24.00
11n HT40	MCS 0	Default	46	5230	12.72	12.51	15.63	36.531	24.00
11ac VHT20	MCS0-NSS1	Default	36	5180	9.69	9.06	12.40	17.365	24.00
11ac VHT20	MCS0-NSS1	Default	44	5220	9.19	8.88	12.05	16.025	24.00
11ac VHT20	MCS0-NSS1	Default	48	5240	8.45	8.90	11.69	14.761	24.00
11ac VHT40	MCS0-NSS1	Default	38	5190	8.87	8.08	11.50	14.136	24.00
11ac VHT40	MCS0-NSS1	Default	46	5230	12.74	12.53	15.65	36.699	24.00
11ac VHT80	MCS0-NSS1	Default	42	5210	9.96	9.28	12.64	18.381	24.00

In the 5.3GHz Band

Modulation Type	Data Rate	Setting	Channel	Frequency (MHz)	Measured value of each antenna port (dBm)		Total power (dBm)	Total power (mW)	FCC Limit (dBm)
					ANT A	ANT B			
11a	6 Mbps	Default	52	5260	10.35	10.67	13.52	22.507	24.00
11a	6 Mbps	Default	60	5300	9.87	11.00	13.48	22.294	24.00
11a	6 Mbps	Default	64	5320	7.45	8.33	10.92	12.367	24.00
11n HT20	MCS 0	Default	52	5260	10.44	11.11	13.80	23.978	24.00
11n HT20	MCS 0	Default	60	5300	10.30	10.87	13.60	22.933	24.00
11n HT20	MCS 0	Default	64	5320	7.31	8.88	11.18	13.110	24.00
11n HT40	MCS 0	Default	54	5270	12.61	13.17	15.91	38.988	24.00
11n HT40	MCS 0	Default	62	5310	7.19	8.73	11.04	12.700	24.00
11ac VHT20	MCS0-NSS1	Default	52	5260	10.47	11.13	13.82	24.115	24.00
11ac VHT20	MCS0-NSS1	Default	60	5300	10.35	10.91	13.65	23.170	24.00
11ac VHT20	MCS0-NSS1	Default	64	5320	7.34	8.93	11.22	13.236	24.00
11ac VHT40	MCS0-NSS1	Default	54	5270	12.66	13.20	15.95	39.343	24.00
11ac VHT40	MCS0-NSS1	Default	62	5310	7.23	8.78	11.08	12.835	24.00
11ac VHT80	MCS0-NSS1	Default	58	5290	8.03	9.14	11.63	14.557	24.00

**In the 5.5GHz Band**

Modulation Type	Data Rate	Setting	Channel	Frequency (MHz)	Measured value of each antenna port (dBm)		Total power (dBm)	Total power (mW)	FCC Limit (dBm)
					ANT A	ANT B			
11a	6 Mbps	Default	100	5500	7.11	6.03	9.61	9.149	24.00
11a	6 Mbps	Default	116	5580	11.18	11.46	14.33	27.118	24.00
11a	6 Mbps	Default	140	5700	8.42	9.34	11.91	15.540	24.00
11n HT20	MCS 0	Default	100	5500	7.92	6.39	10.23	10.550	24.00
11n HT20	MCS 0	Default	116	5580	10.69	11.29	14.01	25.181	24.00
11n HT20	MCS 0	Default	140	5700	7.56	8.64	11.14	13.013	24.00
11n HT40	MCS 0	Default	102	5510	7.93	7.18	10.58	11.433	24.00
11n HT40	MCS 0	Default	110	5550	12.20	11.64	14.94	31.184	24.00
11n HT40	MCS 0	Default	134	5670	13.23	13.58	16.42	43.841	24.00
11ac VHT20	MCS0-NSS1	Default	100	5500	7.95	6.44	10.27	10.643	24.00
11ac VHT20	MCS0-NSS1	Default	116	5580	10.73	11.35	14.06	25.476	24.00
11ac VHT20	MCS0-NSS1	Default	140	5700	7.61	8.67	11.18	13.130	24.00
11ac VHT40	MCS0-NSS1	Default	102	5510	7.96	7.22	10.62	11.524	24.00
11ac VHT40	MCS0-NSS1	Default	110	5550	12.22	11.68	14.97	31.396	24.00
11ac VHT40	MCS0-NSS1	Default	134	5670	13.26	13.62	16.45	44.198	24.00
11ac VHT80	MCS0-NSS1	Default	106	5530	6.61	8.11	10.43	11.053	24.00

In the 5.8GHz Band

Modulation Type	Data Rate	Setting	Channel	Frequency (MHz)	Measured value of each antenna port (dBm)		Total power (dBm)	Total power (mW)	FCC Limit (dBm)
					ANT A	ANT B			
11a	6 Mbps	Default	149	5745	11.79	11.92	14.87	30.660	30.00
11a	6 Mbps	Default	157	5785	11.38	11.16	14.28	26.802	30.00
11a	6 Mbps	Default	165	5825	10.83	10.52	13.69	23.378	30.00
11n HT20	MCS 0	Default	149	5745	11.82	11.57	14.71	29.560	30.00
11n HT20	MCS 0	Default	157	5785	11.40	10.87	14.15	26.022	30.00
11n HT20	MCS 0	Default	165	5825	10.51	10.24	13.39	21.814	30.00
11n HT40	MCS 0	Default	151	5755	14.06	13.75	16.92	49.182	30.00
11n HT40	MCS 0	Default	159	5795	13.79	13.30	16.56	45.313	30.00
11ac VHT20	MCS0-NSS1	Default	149	5745	11.83	11.59	14.72	29.662	30.00
11ac VHT20	MCS0-NSS1	Default	157	5785	11.42	10.88	14.17	26.114	30.00
11ac VHT20	MCS0-NSS1	Default	165	5825	10.52	10.26	13.40	21.889	30.00
11ac VHT40	MCS0-NSS1	Default	151	5755	14.08	13.76	16.93	49.354	30.00
11ac VHT40	MCS0-NSS1	Default	159	5795	13.81	13.31	16.58	45.473	30.00
11ac VHT80	MCS0-NSS1	Default	155	5775	14.12	13.48	16.82	48.107	30.00



11. Power Spectral Density

11.1. Test Limit

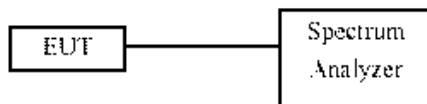
PSD:

Frequency Band		Limit
<input checked="" type="checkbox"/>	5.15~5.25GHz	
	Operating Mode	
<input type="checkbox"/>	Outdoor access point	17 dBm/MHz
<input type="checkbox"/>	Indoor access point	17 dBm/MHz
<input type="checkbox"/>	Fixed point-to-point access points	17 dBm/MHz
<input checked="" type="checkbox"/>	Mobile and portable client devices	11 dBm/MHz
<input checked="" type="checkbox"/>	5.725~5.85 GHz	11 dBm/MHz
<input checked="" type="checkbox"/>	5.470-5.725 GHz	11 dBm/MHz
<input checked="" type="checkbox"/>	5.725~5.85 GHz	30 dBm/500kHz

11.2. Test Procedure

Reference to KDB789033 D02 General UNII Test Procedures New Rules v02r01

11.3. Test Setup Layout





11.4. Test Result and Data

In the 5.2G Band

Modulation Type	CH	Freq. (MHz)	Meas PSD (dBm/MHz)		Sum chain (dBm)	Duty Cycle CF(dB)	Total Corr'd PSD (dBm/MHz)	PSD Limit (dBm/MHz)
			ANT A	ANT B				
802.11a	36	5180	-0.03	-1.72	2.22	0.21	2.43	11.00
	44	5220	-0.73	-1.99	1.70	0.21	1.91	11.00
	48	5240	-0.81	-0.82	2.20	0.21	2.41	11.00
802.11ac VHT20	36	5180	-1.50	-3.35	0.68	0.38	1.06	11.00
	44	5220	-2.98	-2.72	0.16	0.38	0.54	11.00
	48	5240	-2.13	-1.45	1.23	0.38	1.61	11.00
802.11ac VHT40	38	5190	-6.73	-7.50	-4.09	0.41	-3.68	11.00
	46	5230	-2.24	-1.74	1.03	0.41	1.44	11.00
802.11ac VHT80	42	5210	-7.96	-9.94	-5.83	0.44	-5.39	11.00

In the 5.3G Band

Modulation Type	CH	Freq. (MHz)	Meas PSD (dBm/MHz)		Sum chain (dBm)	Duty Cycle CF(dB)	Total Corr'd PSD (dBm/MHz)	PSD Limit (dBm/MHz)
			ANT A	ANT B				
802.11a	52	5260	-0.20	0.95	3.42	0.21	3.63	11.00
	60	5300	-0.78	0.37	2.84	0.21	3.05	11.00
	64	5320	-3.60	-2.13	0.21	0.21	0.42	11.00
802.11ac VHT20	52	5260	-1.33	0.03	2.41	0.38	2.79	11.00
	60	5300	-2.11	-0.50	1.78	0.38	2.16	11.00
	64	5320	-5.11	-3.36	-1.14	0.38	-0.76	11.00
802.11ac VHT40	54	5270	-2.43	-0.98	1.37	0.41	1.78	11.00
	62	5310	-8.06	-6.36	-4.12	0.41	-3.71	11.00
802.11ac VHT80	58	5290	-10.73	-8.73	-6.61	0.44	-6.17	11.00

**In the 5.5G Band**

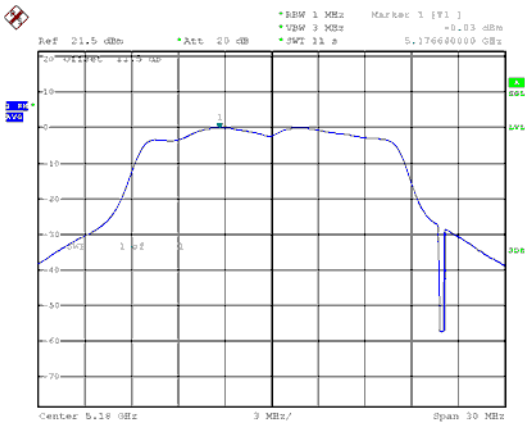
Modulation Type	CH	Freq. (MHz)	Meas PSD (dBm/MHz)		Sum chain (dBm)	Duty Cycle CF(dB)	Total Corr'd PSD (dBm/MHz)	PSD Limit (dBm/MHz)
			ANT A	ANT B				
802.11a	100	5500	-2.53	-3.40	0.07	0.21	0.28	11.00
	116	5580	1.16	2.26	4.76	0.21	4.97	11.00
	140	5700	-2.15	-1.91	0.98	0.21	1.19	11.00
802.11ac VHT20	100	5500	-3.45	-4.53	-0.95	0.38	-0.57	11.00
	116	5580	0.35	1.30	3.86	0.38	4.24	11.00
	140	5700	-2.88	-2.20	0.48	0.38	0.86	11.00
802.11ac VHT40	102	5510	-6.15	-6.93	-3.51	0.41	-3.10	11.00
	110	5550	-1.39	-0.57	2.05	0.41	2.46	11.00
	134	5670	-0.84	0.23	2.74	0.41	3.15	11.00
802.11ac VHT80	106	5530	-9.36	-8.75	-6.03	0.44	-5.59	11.00

In the 5.8G Band

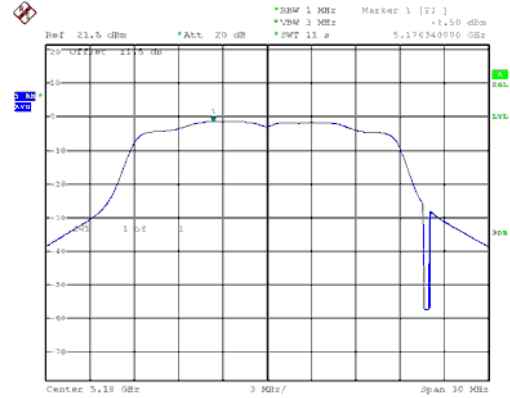
Modulation Type	CH	Freq. (MHz)	Meas PSD (dBm/MHz)		Sum chain (dBm)	Duty Cycle CF(dB)	10log(500K Hz/RBW) CF (dB)	Total Corr'd PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)
			ANT A	ANT B					
802.11a	149	5745	0.79	1.06	3.94	0.21	-3.01	1.14	30.00
	157	5785	0.22	0.39	3.32	0.21	-3.01	0.52	30.00
	165	5825	-0.24	-0.41	2.69	0.21	-3.01	-0.11	30.00
802.11ac VHT20	149	5745	-0.13	0.71	3.32	0.38	-3.01	0.69	30.00
	157	5785	-0.15	0.17	3.02	0.38	-3.01	0.39	30.00
	165	5825	-1.11	-0.88	2.02	0.38	-3.01	-0.61	30.00
802.11ac VHT40	155	5755	-0.61	0.35	2.91	0.41	-3.01	0.31	30.00
	159	5795	-0.90	-0.51	2.31	0.41	-3.01	-0.29	30.00
802.11ac VHT80	155	5775	-3.53	-3.32	-0.41	0.44	-3.01	-2.98	30.00



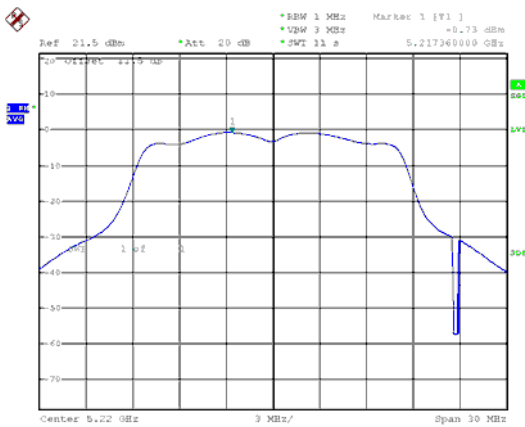
Band 1, ANT A
Modulation Type: 802.11a (6Mbps)
CH36



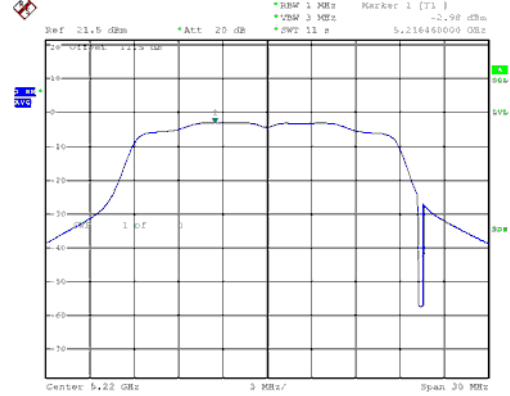
Modulation Type: 802.11ac VHT20 (6.5Mbps)
CH36



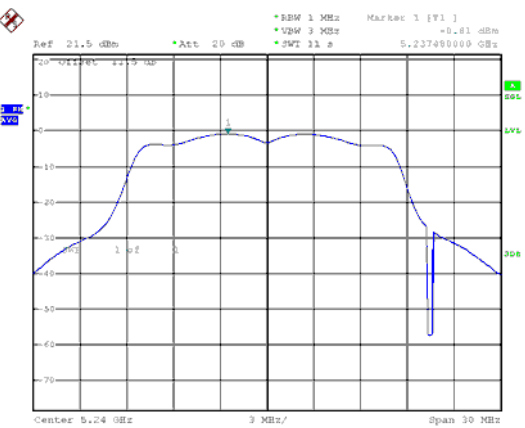
CH44



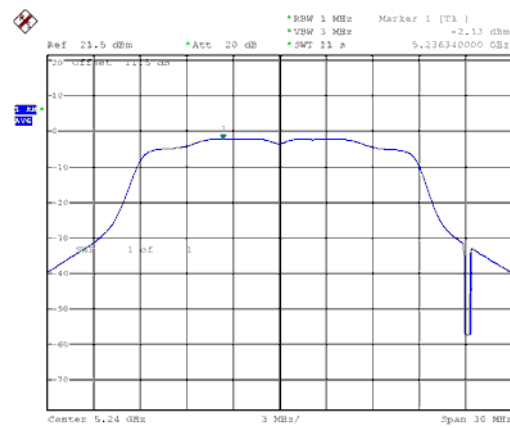
CH44



CH48

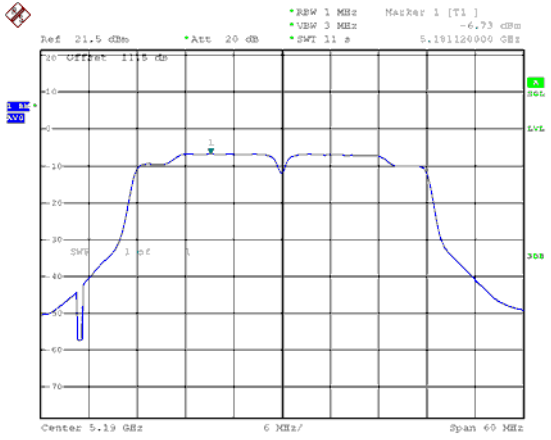


CH48

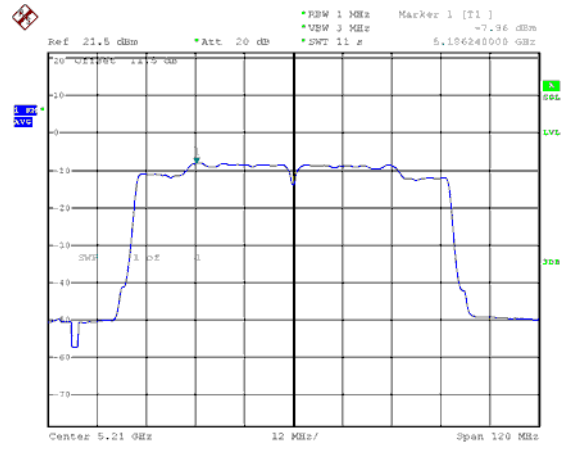




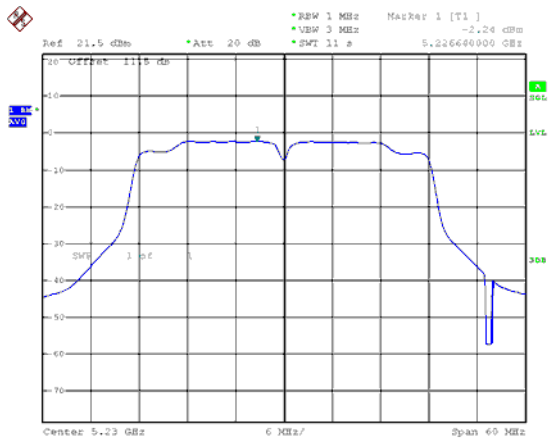
Band 1, ANT A
Modulation Type: 802.11ac VHT40 (6.5Mbps)
CH38



Modulation Type: 802.11ac VHT80 (13.5Mbps)
CH42



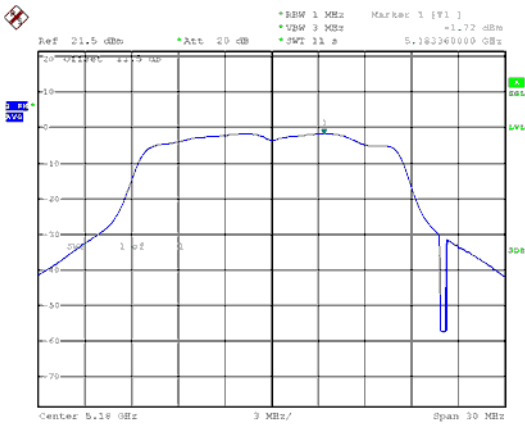
CH46



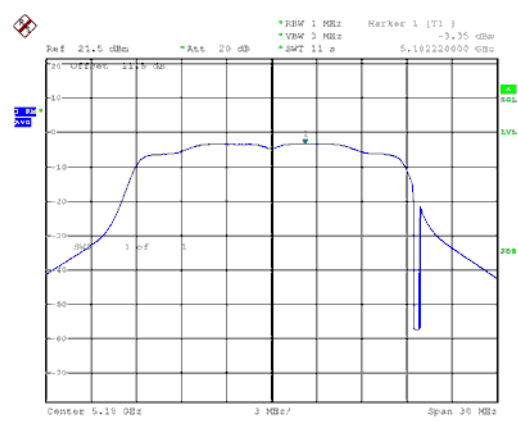


Band 1, ANT B

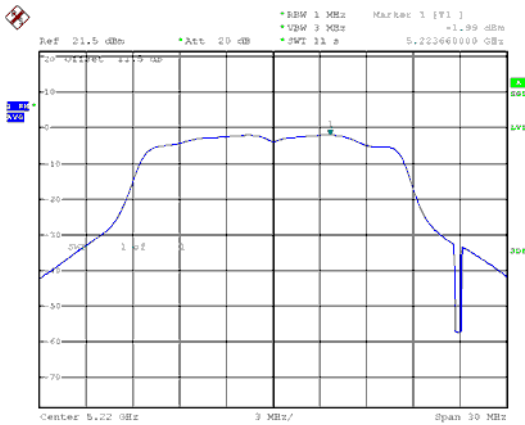
Modulation Type: 802.11a (6Mbps)
CH36



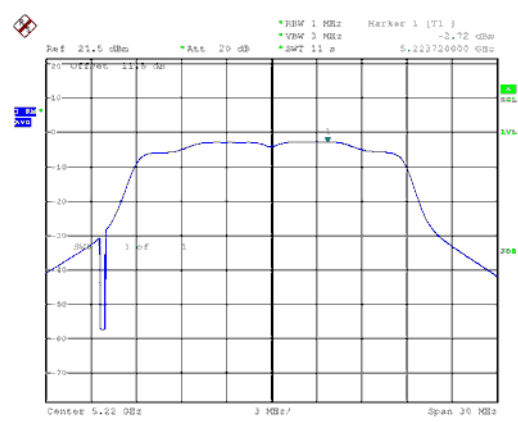
Modulation Type: 802.11ac VHT20 (6.5Mbps)
CH36



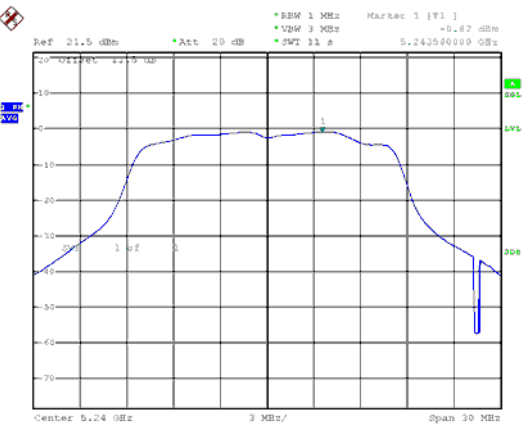
CH44



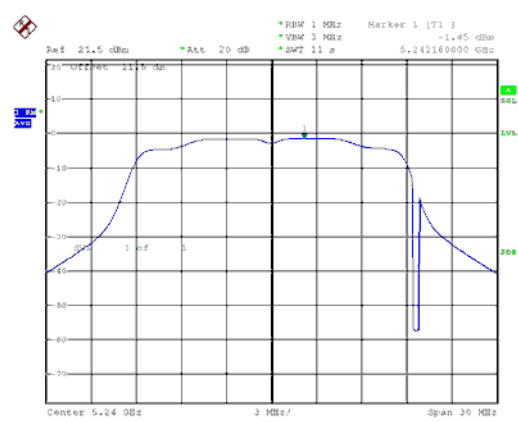
CH44



CH48



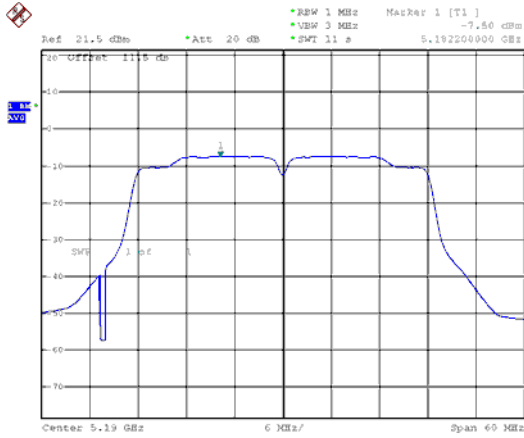
CH48



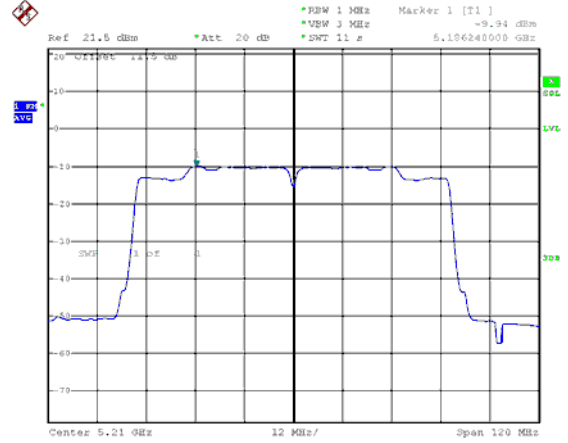


Band 1, ANT B

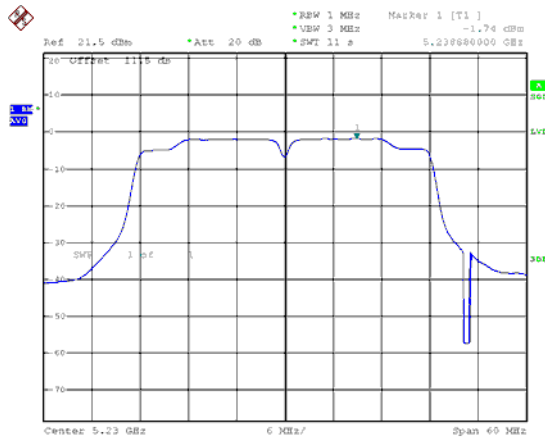
Modulation Type: 802.11ac VHT40 (6.5Mbps)
CH38



Modulation Type: 802.11ac VHT80 (13.5Mbps)
CH42

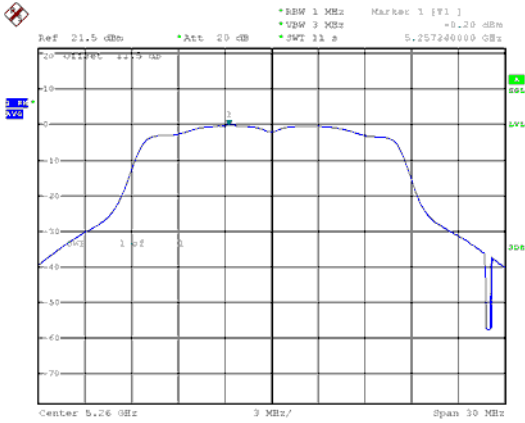


CH46

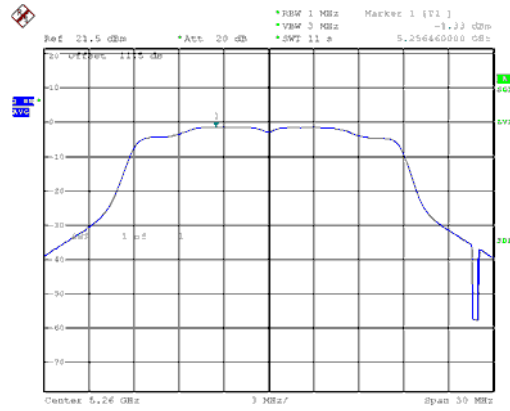




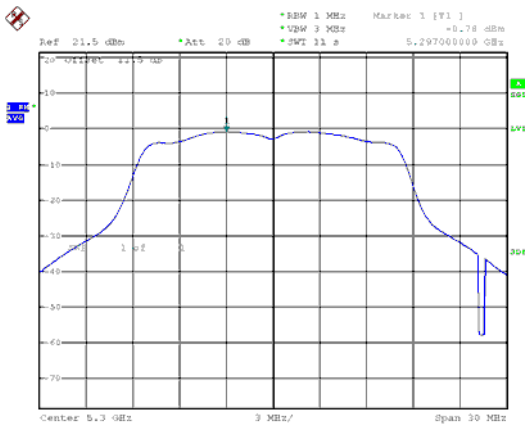
Band 2, ANT A
Modulation Type: 802.11a (6Mbps)
CH52



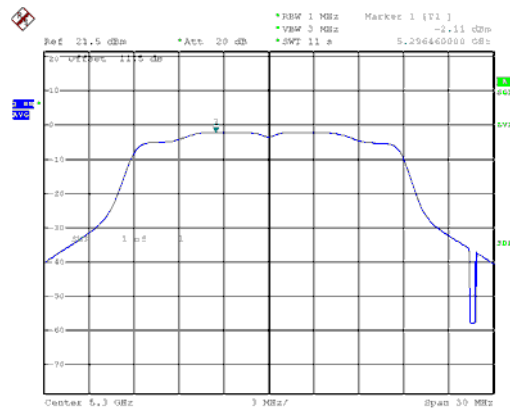
Modulation Type: 802.11ac VHT20 (6.5Mbps)
CH52



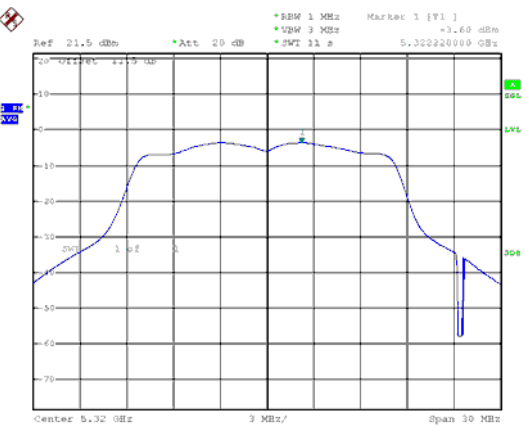
CH60



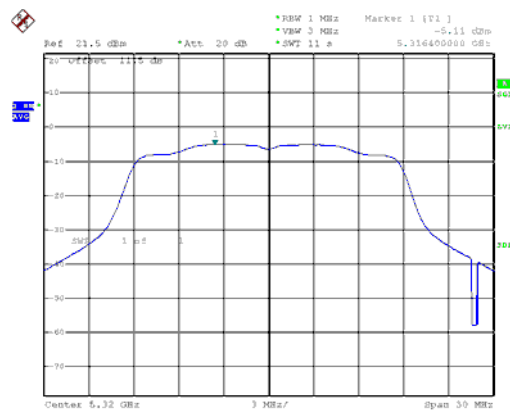
CH60



CH64

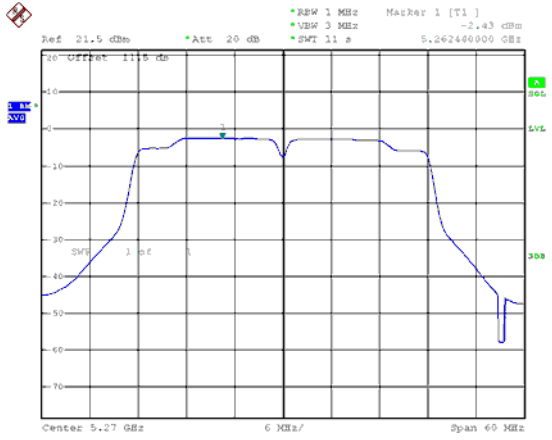


CH64

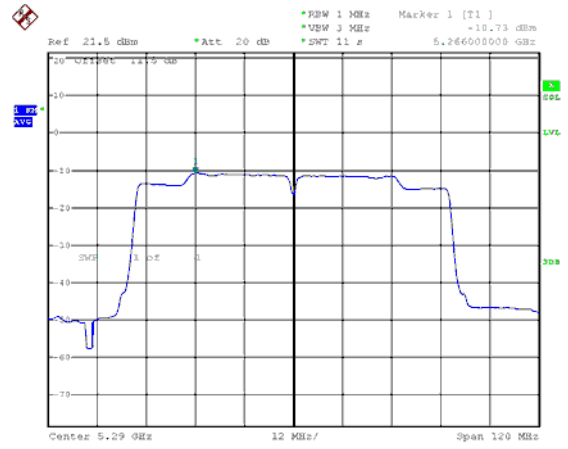




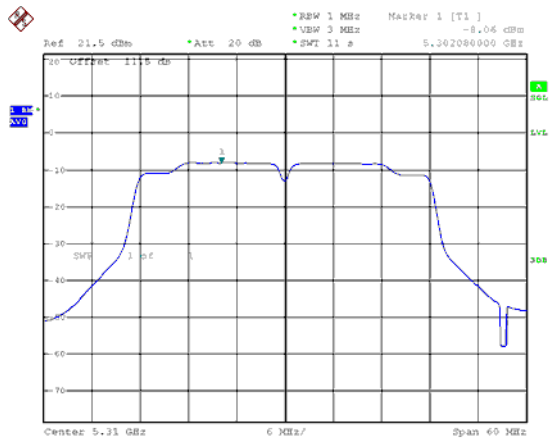
Band 2, ANT A
Modulation Type: 802.11ac VHT40 (6.5Mbps)
CH54



Modulation Type: 802.11ac VHT80 (13.5Mbps)
CH58



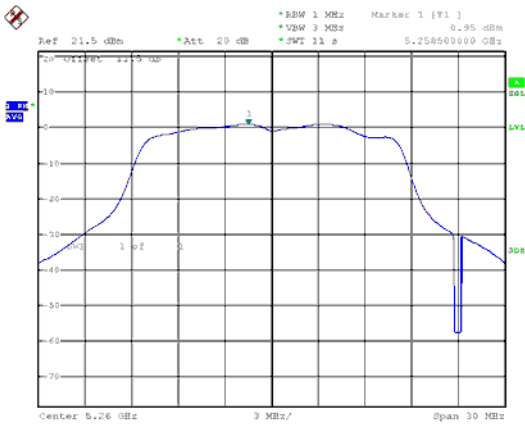
CH62



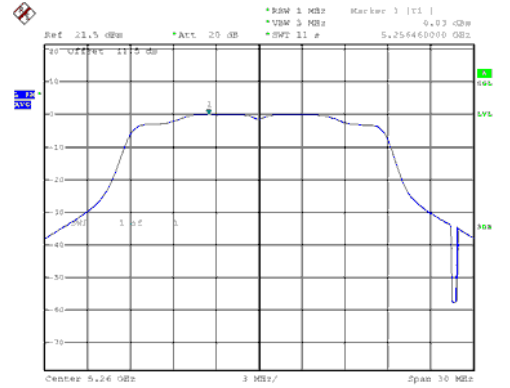


Band 2, ANT B

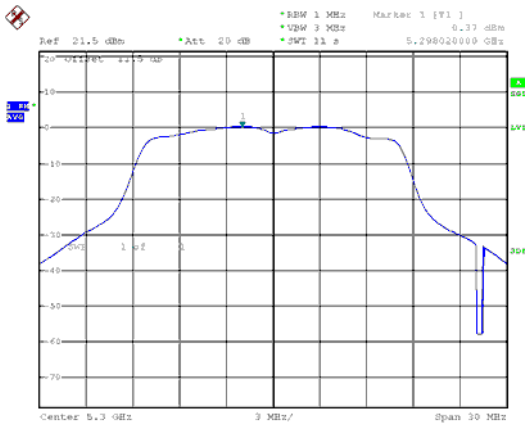
Modulation Type: 802.11a (6Mbps)
CH52



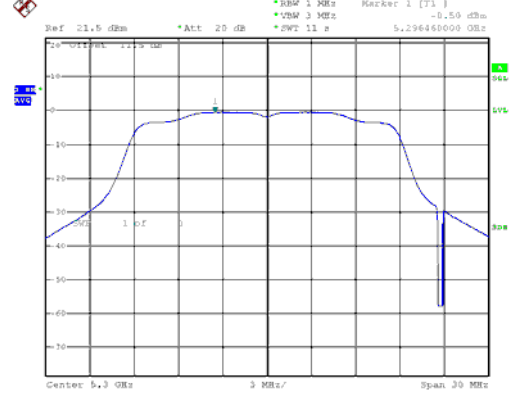
Modulation Type: 802.11ac VHT20 (6.5Mbps)
CH52



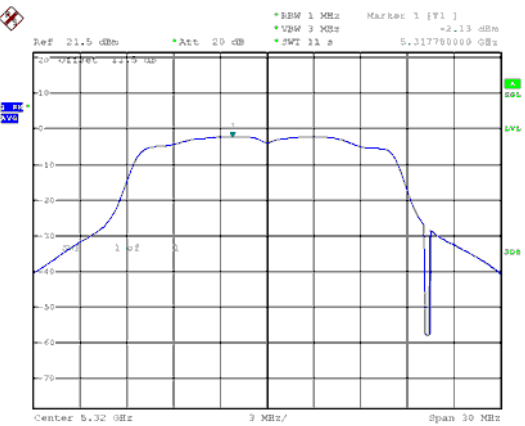
CH60



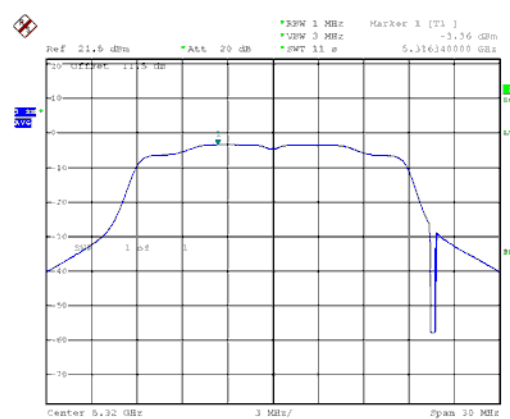
CH60



CH64



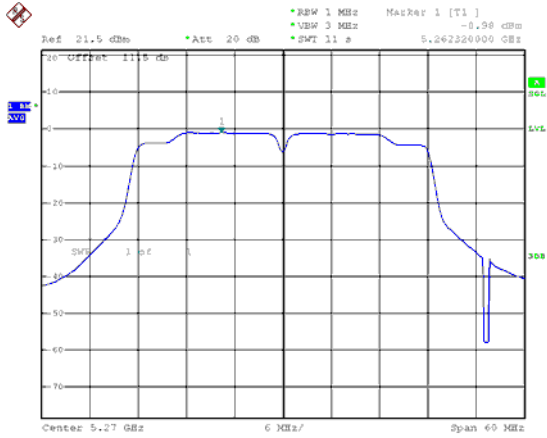
CH64



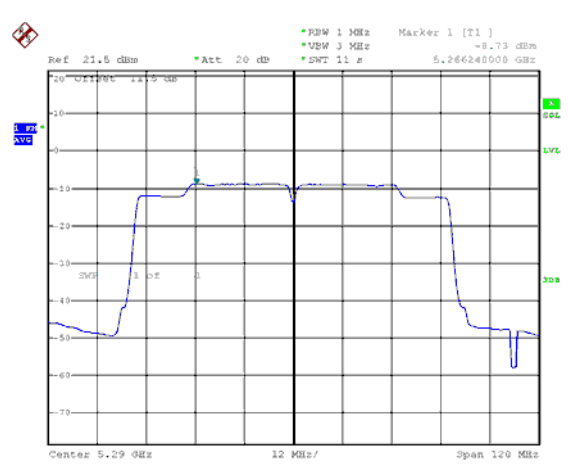


Band 2, ANT B

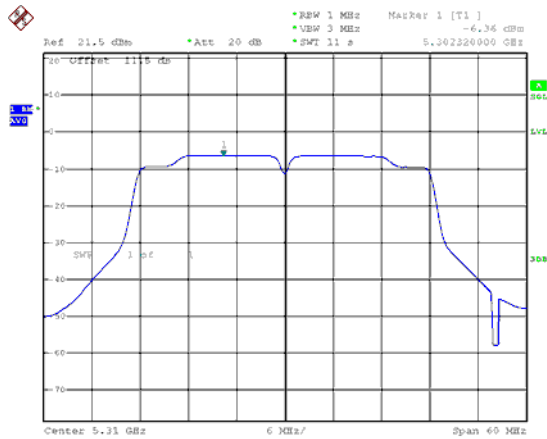
Modulation Type: 802.11ac VHT40 (6.5Mbps)
CH54



Modulation Type: 802.11ac VHT80 (13.5Mbps)
CH58

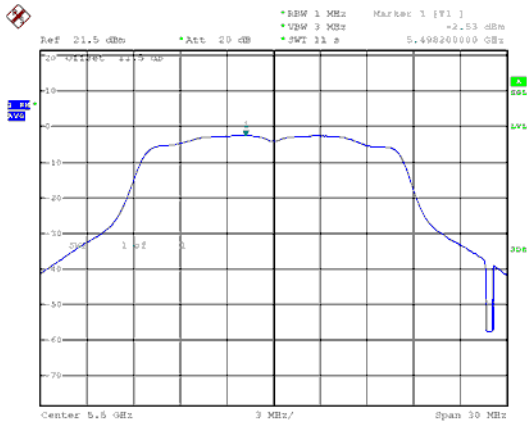


CH62

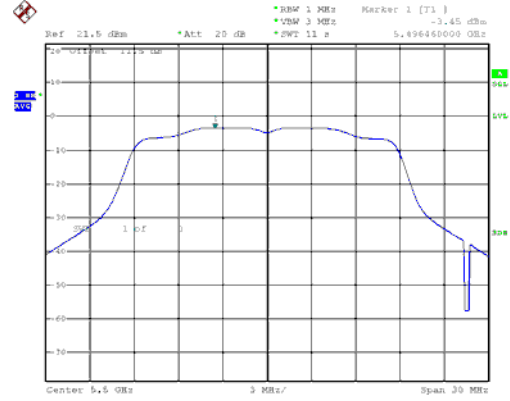




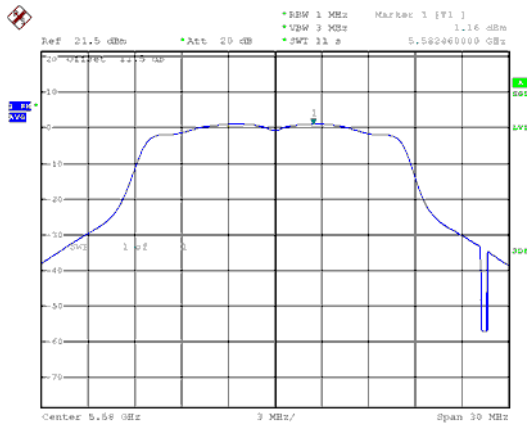
Band 3, ANT A
Modulation Type: 802.11a (6Mbps)
CH100



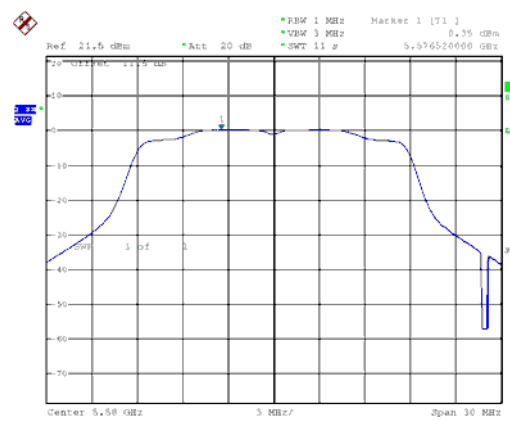
Modulation Type: 802.11ac VHT20 (6.5Mbps)
CH100



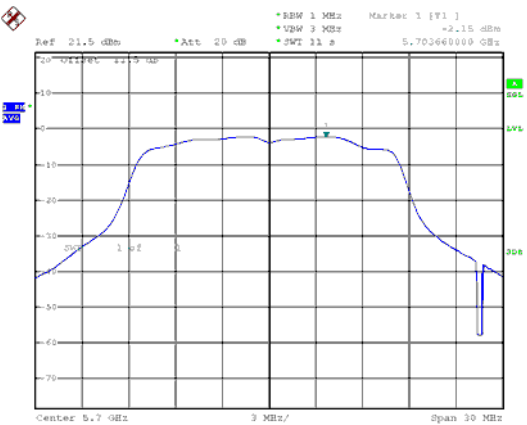
CH116



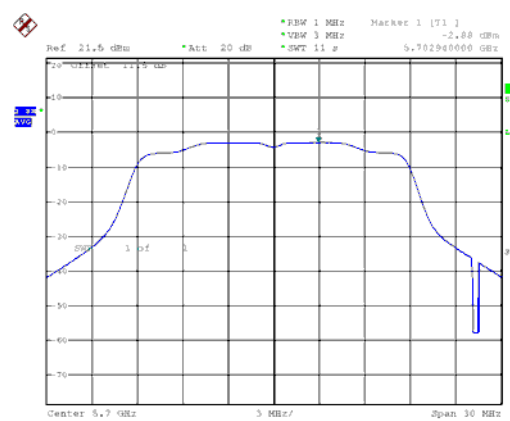
CH116



CH140

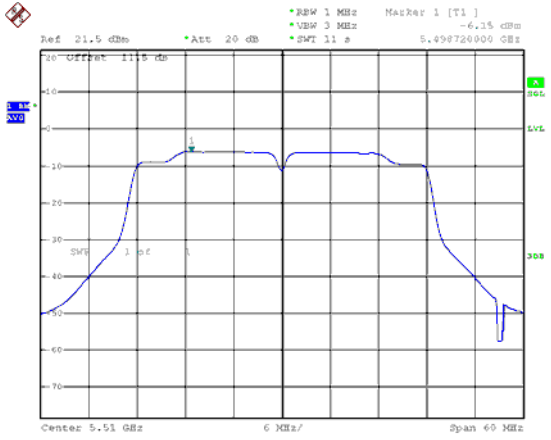


CH140

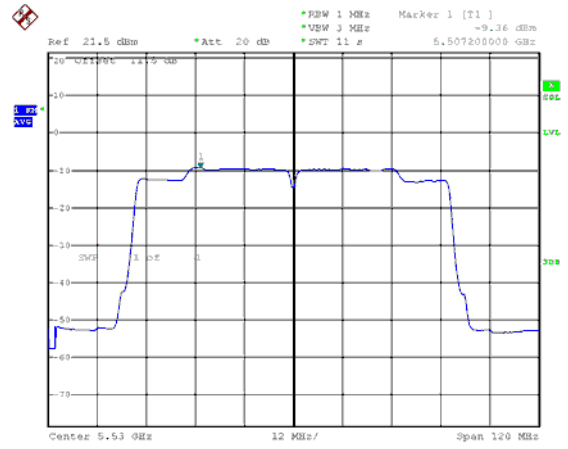




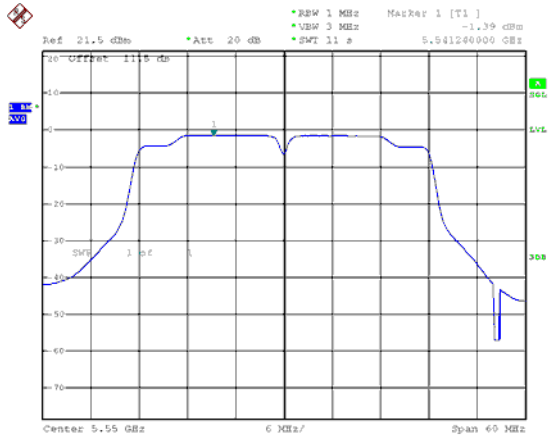
Band 3, ANT A
Modulation Type: 802.11ac VHT40 (6.5Mbps)
CH102



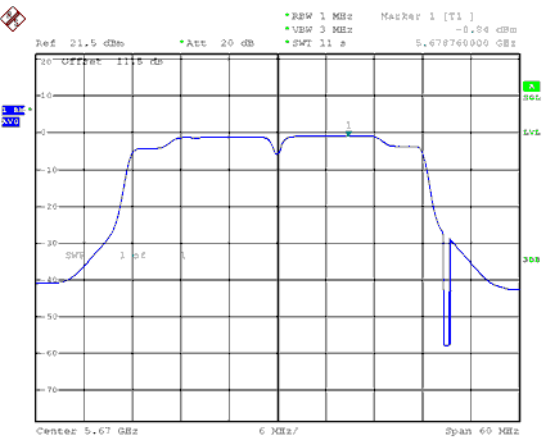
Modulation Type: 802.11ac VHT80 (13.5Mbps)
CH106



CH110

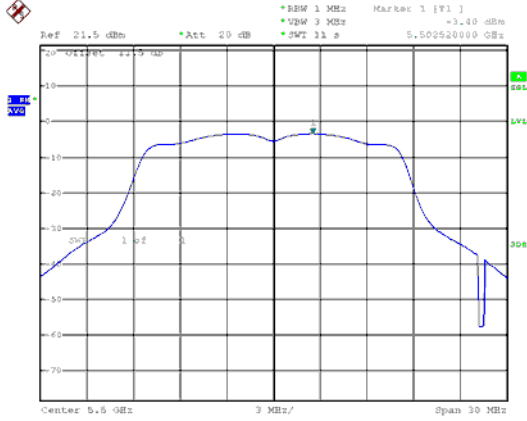


CH134

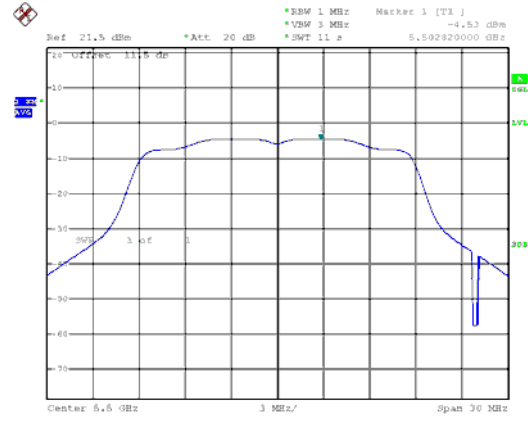




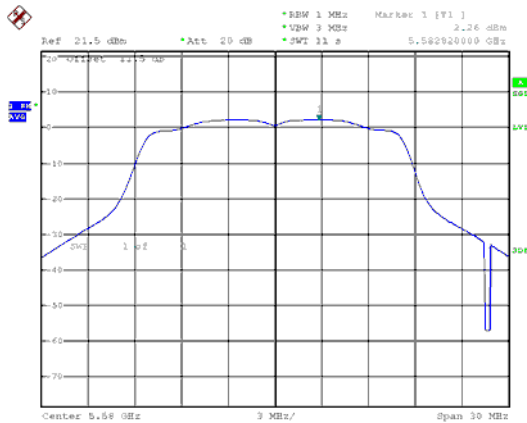
Band 3, ANT B
Modulation Type: 802.11a (6Mbps)
CH100



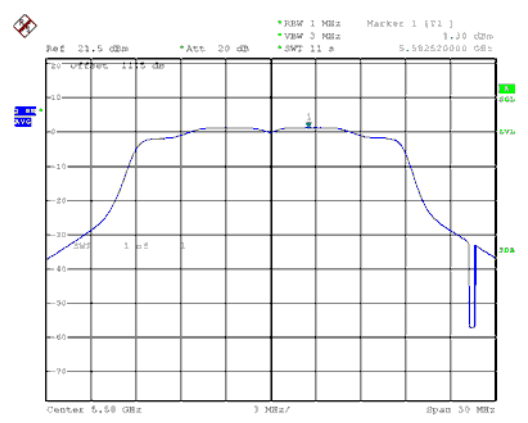
Modulation Type: 802.11ac VHT20 (6.5Mbps)
CH100



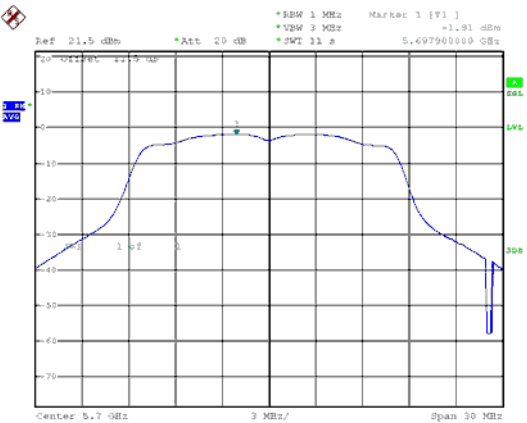
CH116



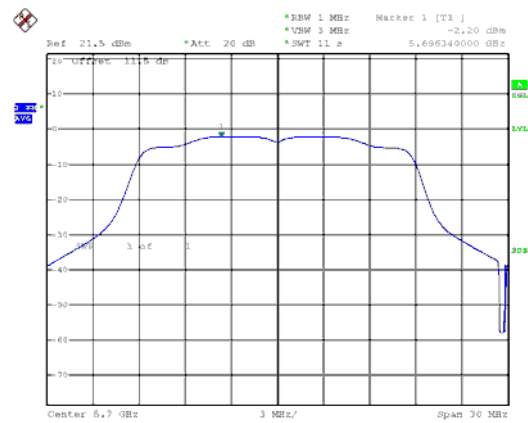
CH116



CH140

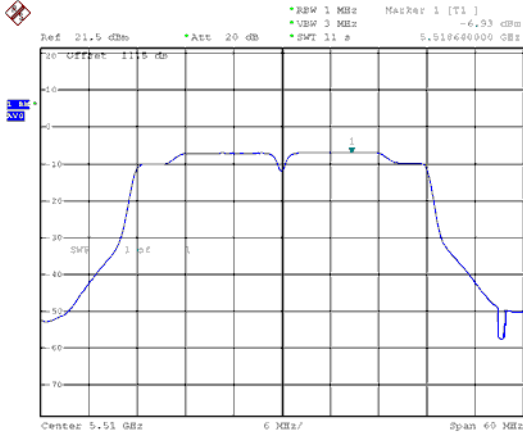


CH140

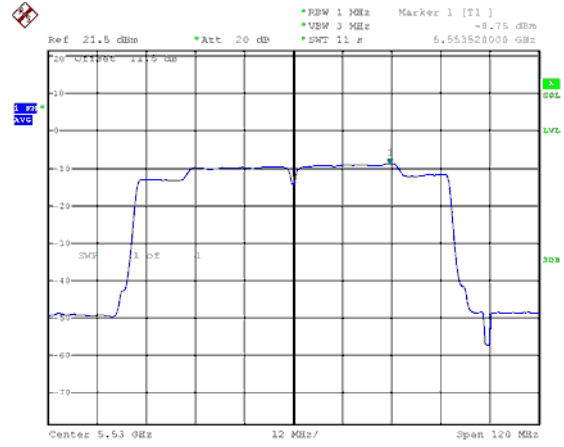




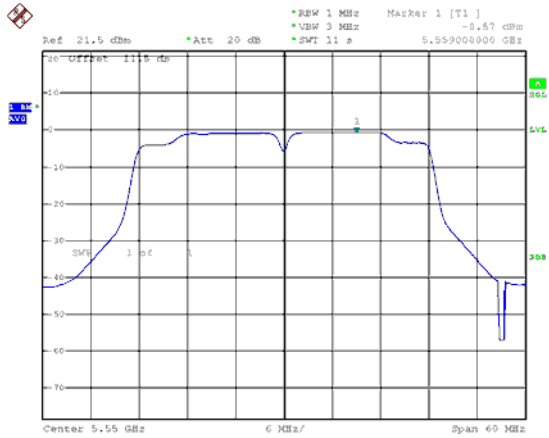
Band 3, ANT B
Modulation Type: 802.11ac VHT40 (6.5Mbps)
CH102



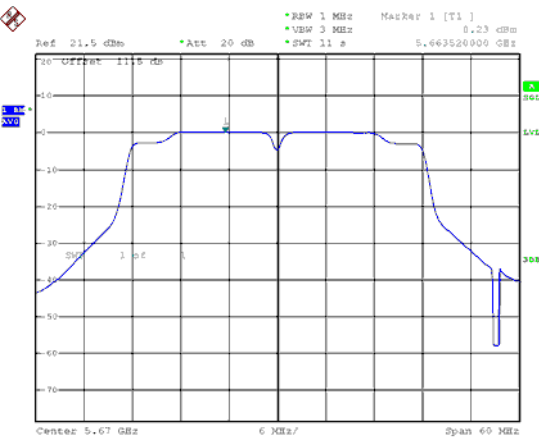
Modulation Type: 802.11ac VHT80 (6.5Mbps)
CH106



CH110

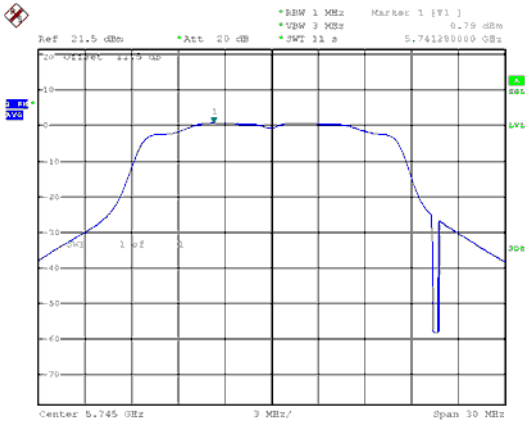


CH134

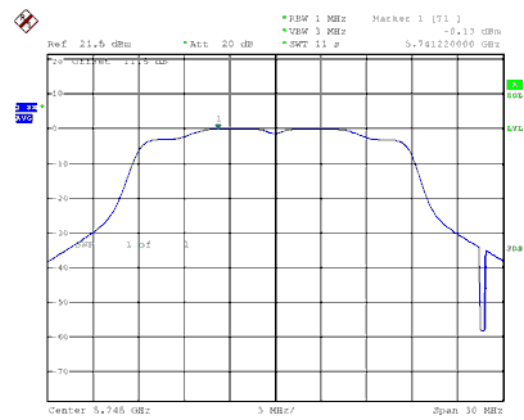




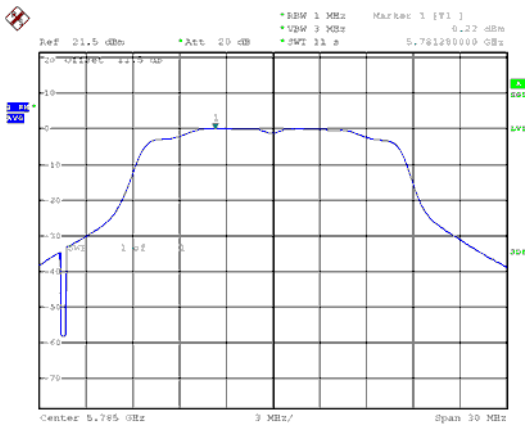
Band 4, ANT A
Modulation Type: 802.11a (6Mbps)
CH149



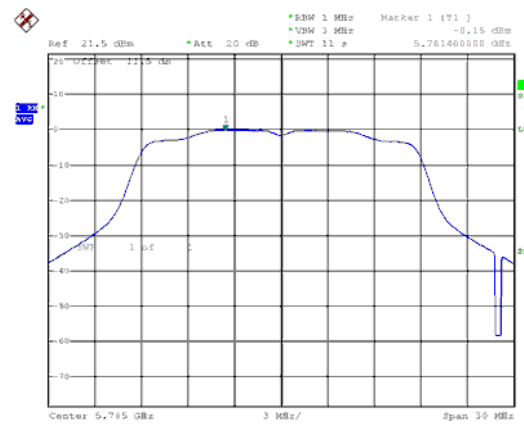
Modulation Type: 802.11ac VHT20 (6.5Mbps)
CH149



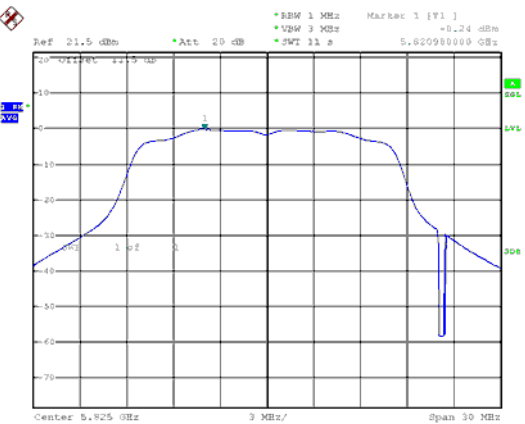
CH157



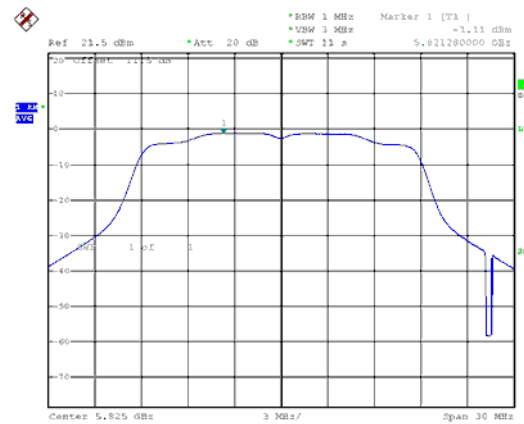
CH157



CH165



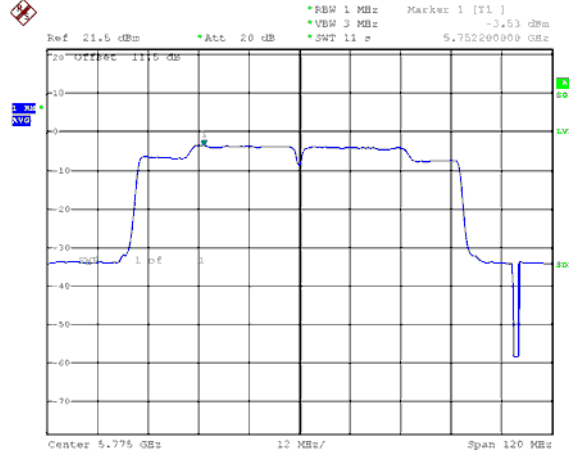
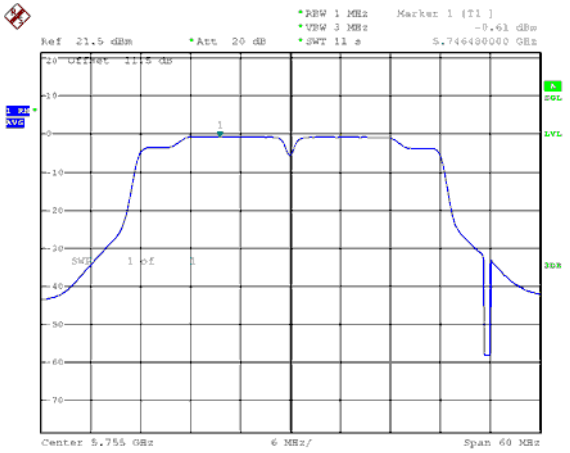
CH165



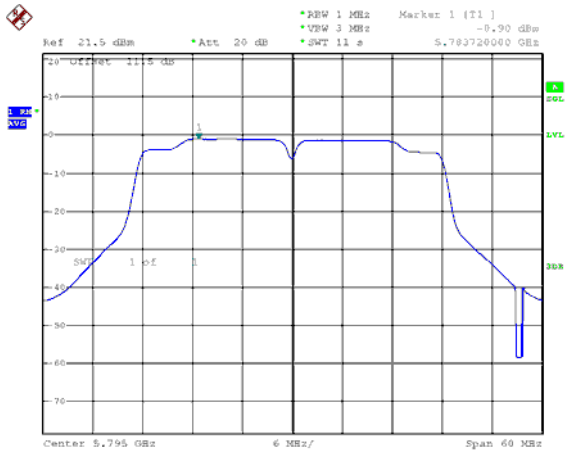


Band 4, ANT A
Modulation Type: 802.11ac VHT40 (13.5Mbps)
CH151

Modulation Type: 802.11ac VHT80 (29.3Mbps)
CH155

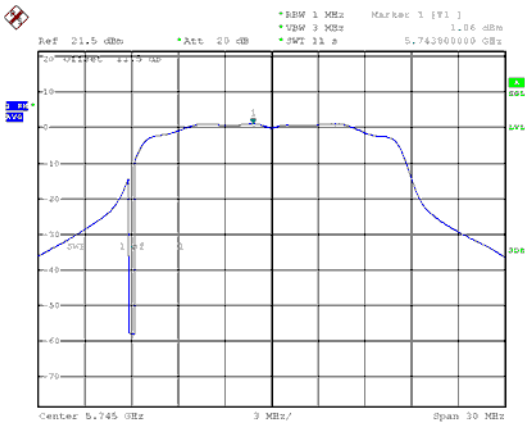


CH159

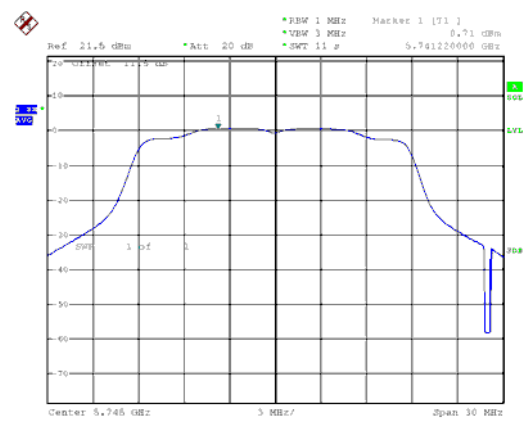




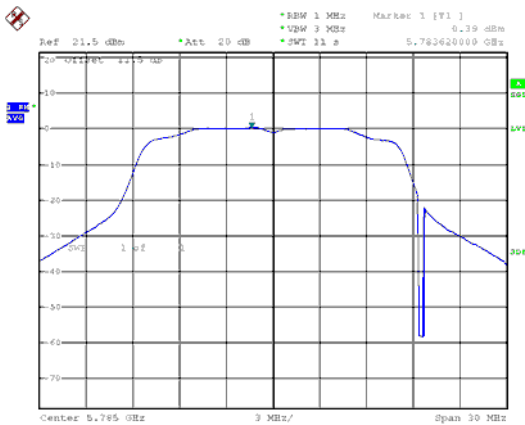
Band 4, ANT B
Modulation Type: 802.11a (6Mbps)
CH149



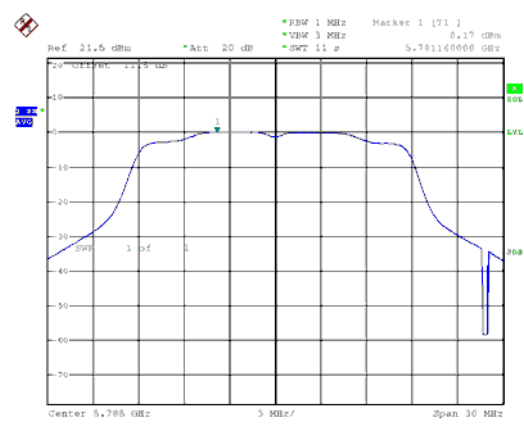
Modulation Type: 802.11ac VHT20 (6.5Mbps)
CH149



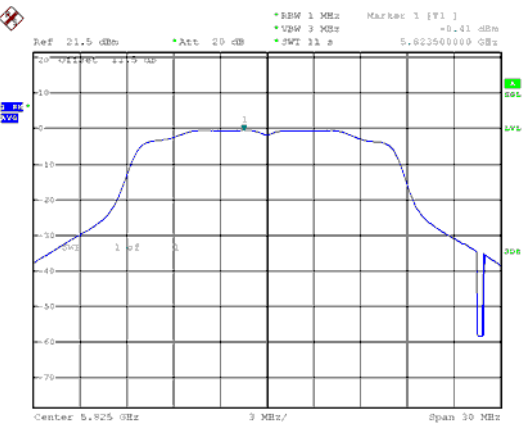
CH157



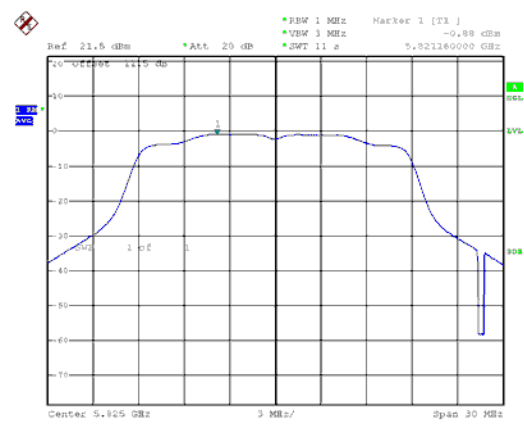
CH157



CH165



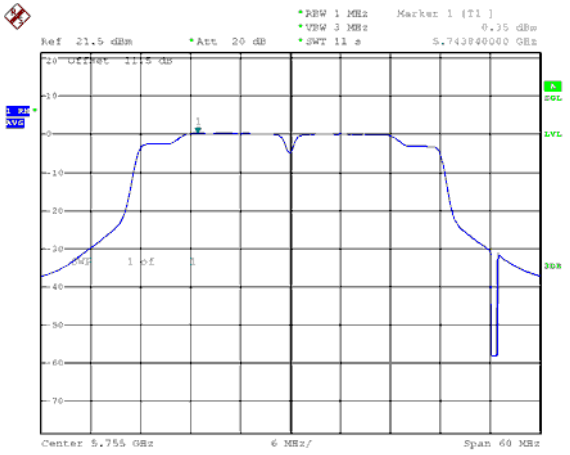
CH165



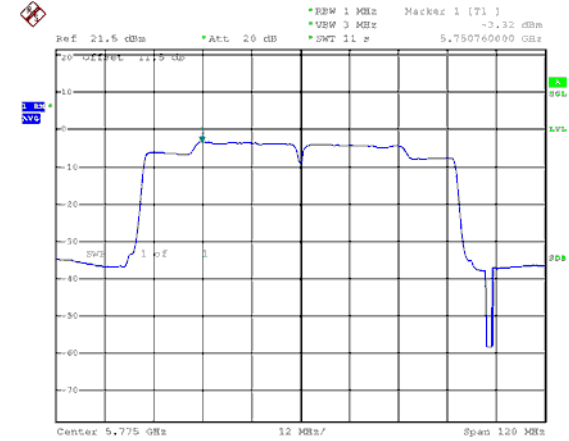
Band 4, ANT A



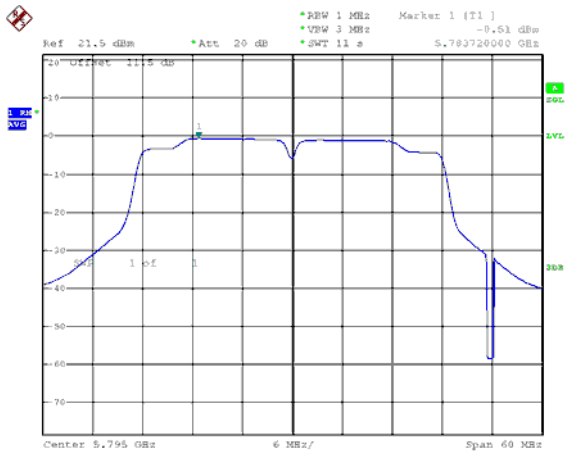
Modulation Type: 802.11ac VHT40 (13.5Mbps)
CH151



Modulation Type: 802.11ac VHT80 (29.3Mbps)
CH155



CH159



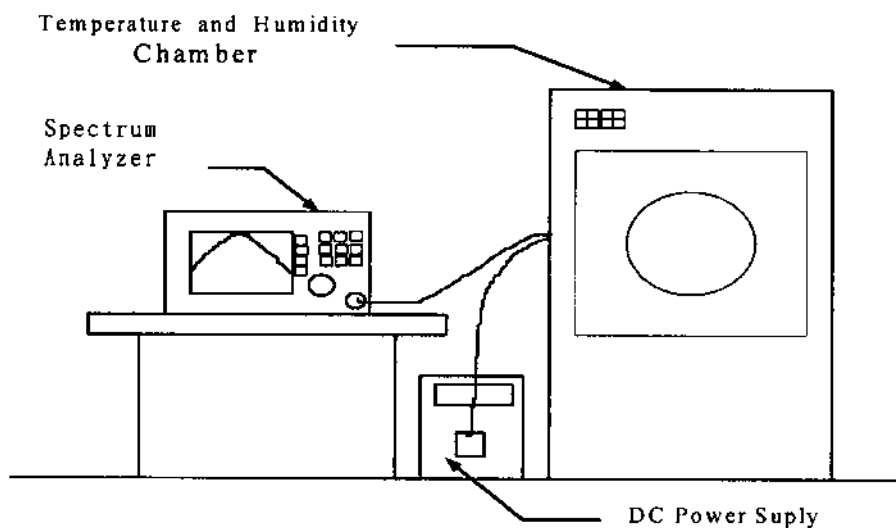


12. Frequency Stability

12.1. Test Procedure

1. The EUT was placed inside the Temperature and Humidity chamber.
2. The transmitter output was connected to spectrum analyzer.
3. Turn the EUT on and couple its output to a spectrum analyzer.
4. Turn the EUT off and set the chamber to the highest temperature specified.
5. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize, turn the EUT on and measure the operating frequency after 2, 5, and 10 minutes.
6. Repeat step 2 and 3 with the temperature chamber set to the lowest temperature.
7. The test chamber was allowed to stabilize at +20 degree C for a minimum of 30 minutes. The supply voltage was then adjusted on the EUT from 85% to 115% and the frequency record.

12.2. Test Setup Layout





12.3. Test Result and Data

Operating frequency: 5180 MHz							
Temp	Power supply	2 minute		5 minute		10 minute	
(°C)	(V)	(MHz)	(%)	(MHz)	(%)	(MHz)	(%)
50	102	5180.0187	0.000362	5179.9865	-0.000261	5179.9278	-0.001394
	120	5179.9971	-0.000057	5180.0655	0.001265	5179.9493	-0.000979
	138	5180.0394	0.000760	5180.0820	0.001583	5179.9741	-0.000500
40	102	5180.0041	0.000080	5179.9542	-0.000884	5179.9416	-0.001127
	120	5180.0653	0.001261	5180.0481	0.000928	5180.0813	0.001569
	138	5180.0469	0.000906	5180.0272	0.000524	5180.0192	0.000370
30	102	5180.0031	0.000060	5180.0164	0.000317	5179.9467	-0.001028
	120	5180.0587	0.001133	5179.9459	-0.001045	5179.9327	-0.001299
	138	5179.9158	-0.001625	5179.9516	-0.000935	5180.0592	0.001143
20	102	5179.9815	-0.000357	5179.9520	-0.000926	5180.0893	0.001724
	120	5179.9763	-0.000458	5180.0197	0.000381	5180.0988	0.001907
	138	5180.0076	0.000147	5180.0954	0.001842	5180.0069	0.000134
10	102	5179.9696	-0.000586	5179.9578	-0.000814	5180.0479	0.000925
	120	5179.9453	-0.001056	5179.9211	-0.001523	5180.0152	0.000292
	138	5180.0443	0.000854	5179.9077	-0.001781	5179.9856	-0.000278
0	102	5179.9443	-0.001076	5179.9180	-0.001583	5180.0545	0.001052
	120	5179.9231	-0.001484	5179.9265	-0.001420	5179.9943	-0.000111
	138	5179.9830	-0.000329	5180.0359	0.000694	5180.0495	0.000955
-10	102	5180.0924	0.001783	5179.9912	-0.000169	5180.0979	0.001890
	120	5179.9836	-0.000316	5179.9861	-0.000268	5179.9677	-0.000624
	138	5179.9395	-0.001168	5180.0765	0.001477	5179.9692	-0.000594
-20	102	5179.9774	-0.000437	5180.0989	0.001909	5180.0388	0.000749
	120	5179.9256	-0.001436	5179.9505	-0.000955	5179.9782	-0.000421
	138	5179.9330	-0.001293	5179.9199	-0.001546	5179.9322	-0.001310
-30	102	5179.9718	-0.000545	5180.0777	0.001501	5179.9044	-0.001846
	120	5180.0501	0.000967	5179.9065	-0.001804	5179.9812	-0.000362
	138	5179.9769	-0.000445	5179.9638	-0.000699	5179.9538	-0.000892

Limit:

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the users manual.