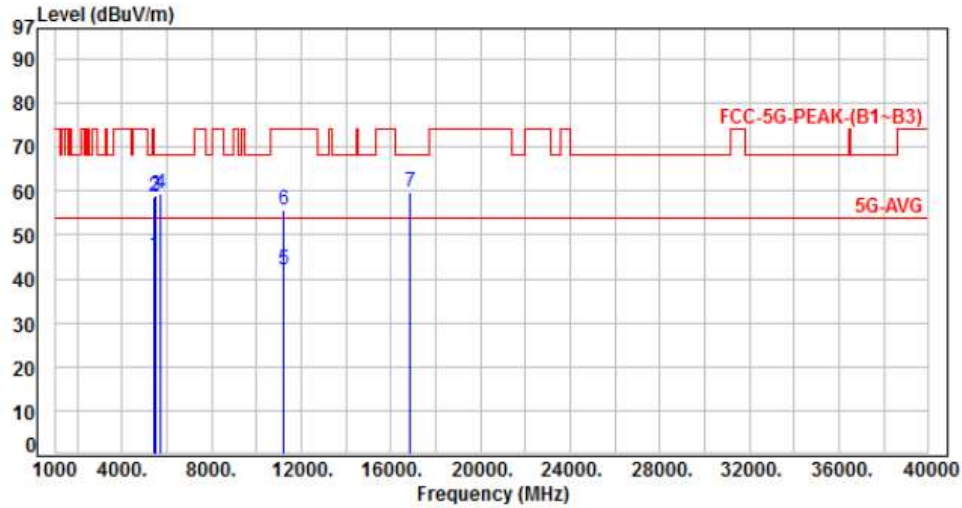




Power	: AC 120V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 6, Band 3, CH122		:

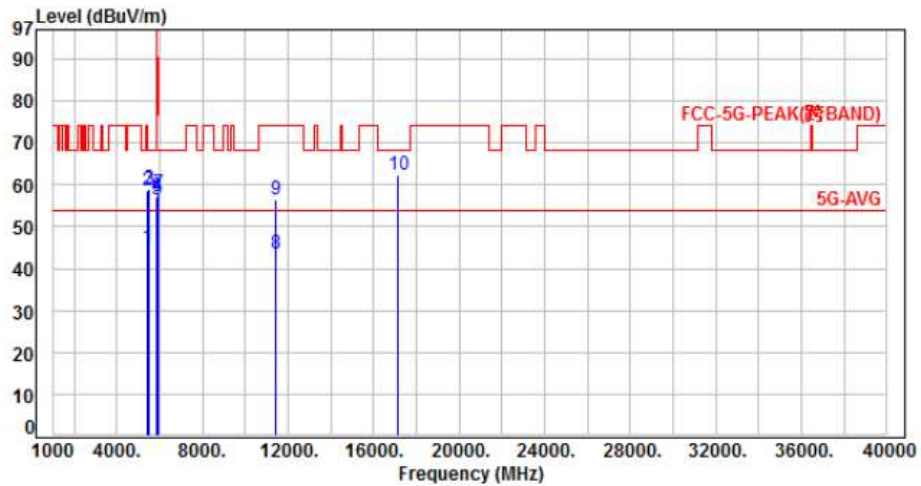


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5460.00	5.20	40.05	45.25	54.00	-8.75	Average	222	116	P
2	5460.00	5.20	53.48	58.68	74.00	-15.32	Peak	222	116	P
3	5470.00	5.20	53.85	59.05	68.20	-9.15	Peak	222	116	P
4	5725.00	5.14	54.25	59.39	68.20	-8.81	Peak	222	116	P
5	11220.00	12.74	29.28	42.02	54.00	-11.98	Average	146	93	P
6	11220.00	12.74	42.81	55.55	74.00	-18.45	Peak	146	93	P
7	16830.00	16.75	43.07	59.82	68.20	-8.38	Peak	100	136	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 3 Straddle Channel, CH144		:

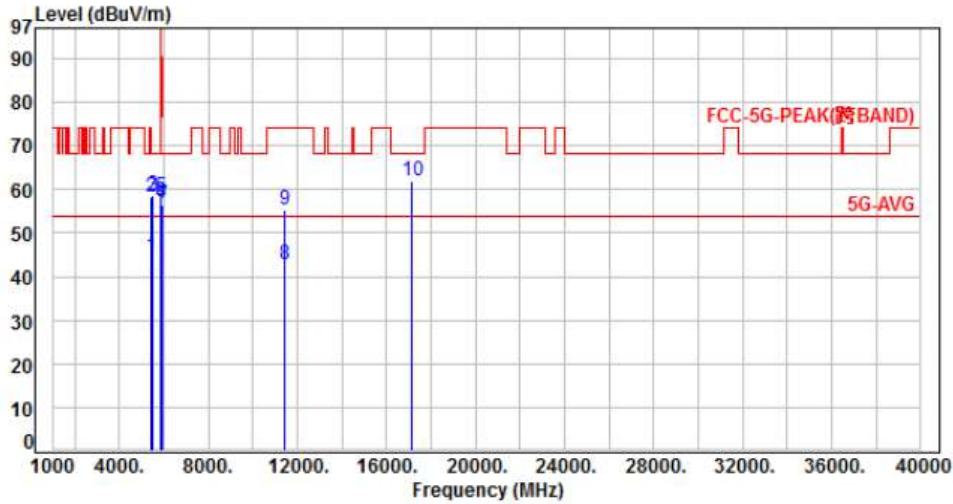


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5460.00	5.20	39.64	44.84	54.00	-9.16	Average	264	99	P
2	5460.00	5.20	53.50	58.70	74.00	-15.30	Peak	264	99	P
3	5470.00	5.20	53.93	59.13	68.20	-9.07	Peak	264	99	P
4	5850.00	5.21	51.84	57.05	122.20	-65.15	Peak	264	99	P
5	5855.00	5.23	51.19	56.42	110.80	-54.38	Peak	264	99	P
6	5875.00	5.31	51.72	57.03	105.20	-48.17	Peak	264	99	P
7	5925.00	5.49	52.39	57.88	68.20	-10.32	Peak	264	99	P
8	11440.00	13.08	30.37	43.45	54.00	-10.55	Average	100	191	P
9	11440.00	13.08	43.33	56.41	74.00	-17.59	Peak	100	191	P
10	17160.00	18.42	43.85	62.27	68.20	-5.93	Peak	100	109	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 3 Straddle Channel, CH144		:

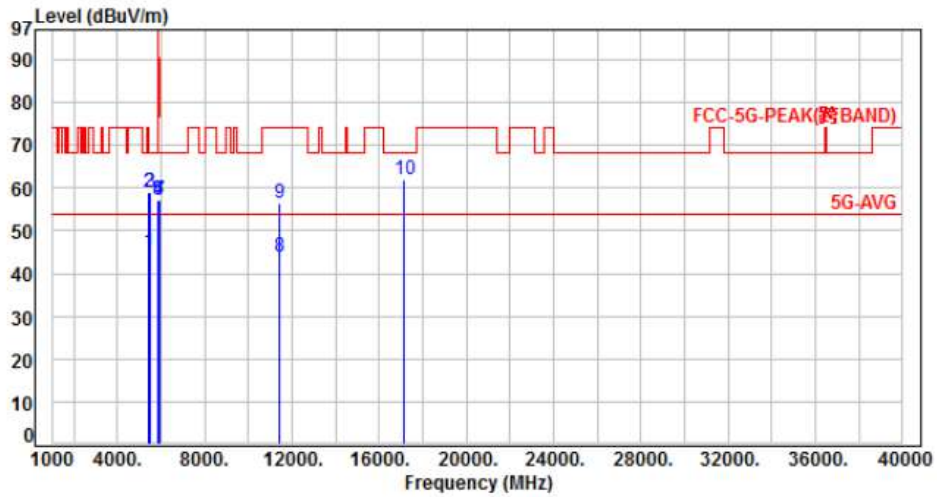


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5460.00	5.20	39.46	44.66	54.00	-9.34	Average	214	117	P
2	5460.00	5.20	53.19	58.39	74.00	-15.61	Peak	214	117	P
3	5470.00	5.20	53.62	58.82	68.20	-9.38	Peak	214	117	P
4	5850.00	5.21	51.69	56.90	122.20	-65.30	Peak	214	117	P
5	5855.00	5.23	53.00	58.23	110.80	-52.57	Peak	214	117	P
6	5875.00	5.31	51.75	57.06	105.20	-48.14	Peak	214	117	P
7	5925.00	5.49	51.11	56.60	68.20	-11.60	Peak	214	117	P
8	11440.00	13.08	29.85	42.93	54.00	-11.07	Average	143	97	P
9	11440.00	13.08	42.16	55.24	74.00	-18.76	Peak	143	97	P
10	17160.00	18.42	43.41	61.83	68.20	-6.37	Peak	100	138	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 Straddle Channel, CH144		

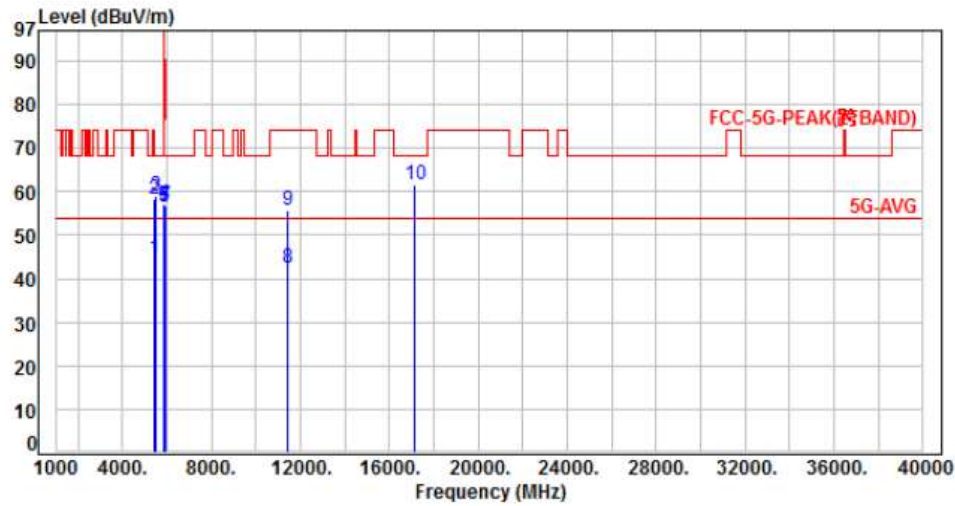


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5460.00	5.20	39.85	45.05	54.00	-8.95	Average	264	91	P
2	5460.00	5.20	53.85	59.05	74.00	-14.95	Peak	264	91	P
3	5470.00	5.20	53.93	59.13	68.20	-9.07	Peak	264	91	P
4	5850.00	5.21	51.85	57.06	122.20	-65.14	Peak	264	91	P
5	5855.00	5.23	51.88	57.11	110.80	-53.69	Peak	264	91	P
6	5875.00	5.31	51.93	57.24	105.20	-47.96	Peak	264	91	P
7	5925.00	5.49	51.75	57.24	68.20	-10.96	Peak	264	91	P
8	11440.00	13.08	30.66	43.74	54.00	-10.26	Average	127	172	P
9	11440.00	13.08	43.52	56.60	74.00	-17.40	Peak	127	172	P
10	17160.00	18.42	43.64	62.06	68.20	-6.14	Peak	100	77	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 Straddle Channel, CH144		:

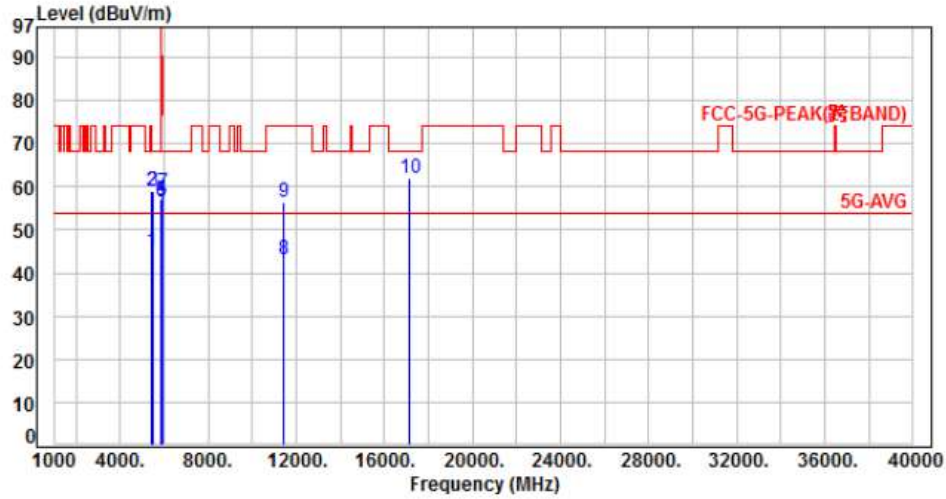


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5460.00	5.20	39.45	44.65	54.00	-9.35	Average	151	118	P
2	5460.00	5.20	53.12	58.32	74.00	-15.68	Peak	151	118	P
3	5470.00	5.20	53.81	59.01	68.20	-9.19	Peak	151	118	P
4	5850.00	5.21	51.89	57.10	122.20	-65.10	Peak	151	118	P
5	5855.00	5.23	51.18	56.41	110.80	-54.39	Peak	151	118	P
6	5875.00	5.31	51.34	56.65	105.20	-48.55	Peak	151	118	P
7	5925.00	5.49	51.16	56.65	68.20	-11.55	Peak	151	118	P
8	11440.00	13.08	29.38	42.46	54.00	-11.54	Average	145	91	P
9	11440.00	13.08	42.63	55.71	74.00	-18.29	Peak	145	91	P
10	17160.00	18.42	43.35	61.77	68.20	-6.43	Peak	100	132	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 5, Band 3 Straddle Channel, CH142		

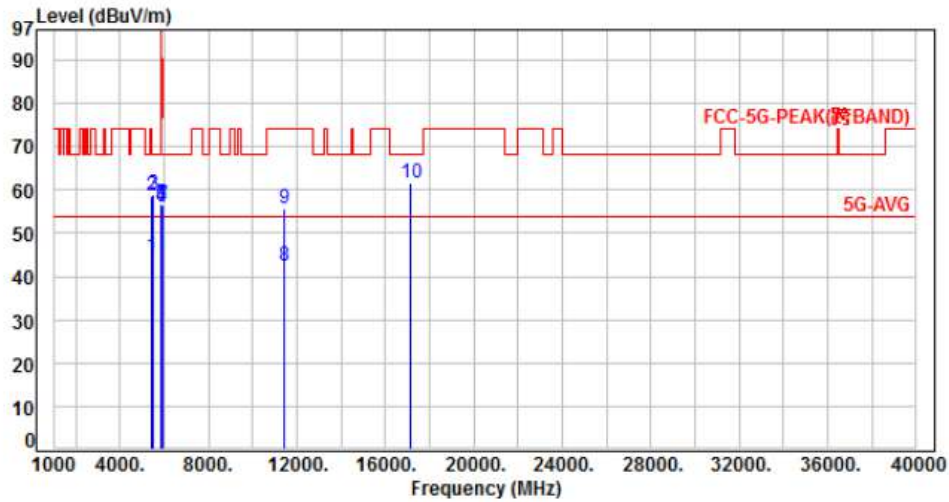


No.	Frequency (MHz)	Factor (dB)	Reading (dBUV)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5460.00	5.20	39.77	44.97	54.00	-9.03	Average	265	84	P
2	5460.00	5.20	53.81	59.01	74.00	-14.99	Peak	265	84	P
3	5470.00	5.20	53.92	59.12	68.20	-9.08	Peak	265	84	P
4	5850.00	5.21	51.96	57.17	122.20	-65.03	Peak	265	84	P
5	5855.00	5.23	51.73	56.96	110.80	-53.84	Peak	265	84	P
6	5875.00	5.31	51.20	56.51	105.20	-48.69	Peak	265	84	P
7	5925.00	5.49	53.17	58.66	68.20	-9.54	Peak	265	84	P
8	11420.00	13.01	30.15	43.16	54.00	-10.84	Average	127	148	P
9	11420.00	13.01	43.39	56.40	74.00	-17.60	Peak	127	148	P
10	17130.00	18.23	43.78	62.01	68.20	-6.19	Peak	100	103	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 5, Band 3 Straddle Channel, CH142		:

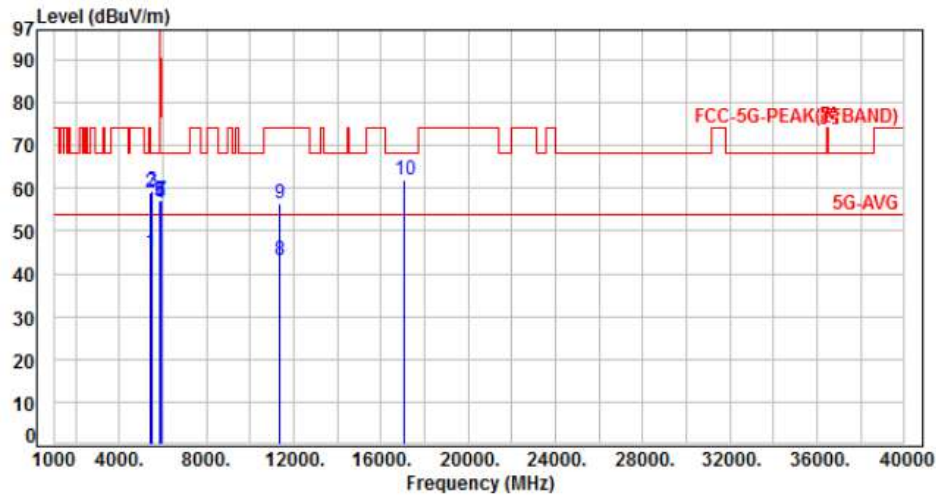


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5460.00	5.20	39.40	44.60	54.00	-9.40	Average	148	119	P
2	5460.00	5.20	53.34	58.54	74.00	-15.46	Peak	148	119	P
3	5470.00	5.20	53.64	58.84	68.20	-9.36	Peak	148	119	P
4	5850.00	5.21	50.96	56.17	122.20	-66.03	Peak	148	119	P
5	5855.00	5.23	51.65	56.88	110.80	-53.92	Peak	148	119	P
6	5875.00	5.31	50.81	56.12	105.20	-49.08	Peak	148	119	P
7	5925.00	5.49	51.05	56.54	68.20	-11.66	Peak	148	119	P
8	11420.00	13.01	29.49	42.50	54.00	-11.50	Average	141	98	P
9	11420.00	13.01	42.73	55.74	74.00	-18.26	Peak	141	98	P
10	17130.00	18.23	43.46	61.69	68.20	-6.51	Peak	100	149	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 6, Band 3 Straddle Channel, CH138		:

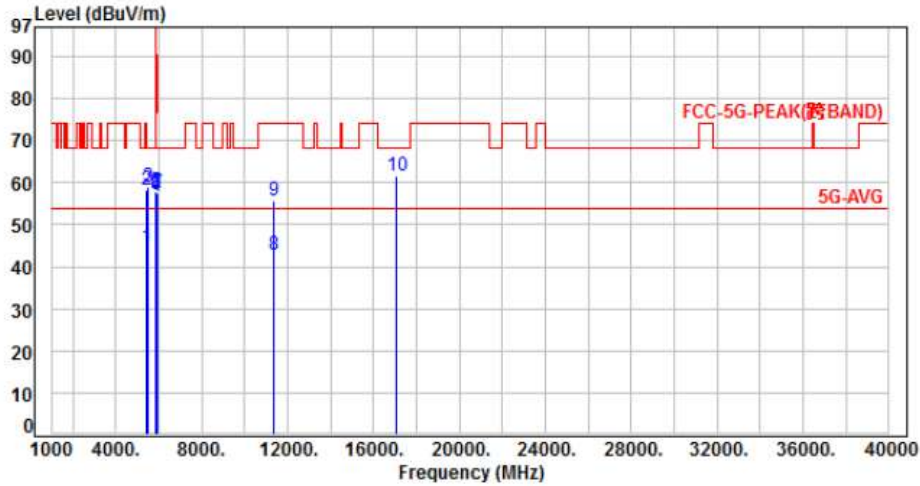


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5460.00	5.20	39.77	44.97	54.00	-9.03	Average	216	85	P
2	5460.00	5.20	53.71	58.91	74.00	-15.09	Peak	216	85	P
3	5470.00	5.20	54.04	59.24	68.20	-8.96	Peak	216	85	P
4	5850.00	5.21	51.25	56.46	122.20	-65.74	Peak	216	85	P
5	5855.00	5.23	51.46	56.69	110.80	-54.11	Peak	216	85	P
6	5875.00	5.31	51.97	57.28	105.20	-47.92	Peak	216	85	P
7	5925.00	5.49	51.75	57.24	68.20	-10.96	Peak	216	85	P
8	11380.00	12.91	30.26	43.17	54.00	-10.83	Average	126	171	P
9	11380.00	12.91	43.56	56.47	74.00	-17.53	Peak	126	171	P
10	17070.00	17.93	43.91	61.84	68.20	-6.36	Peak	200	95	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 6, Band 3 Straddle Channel, CH138		:

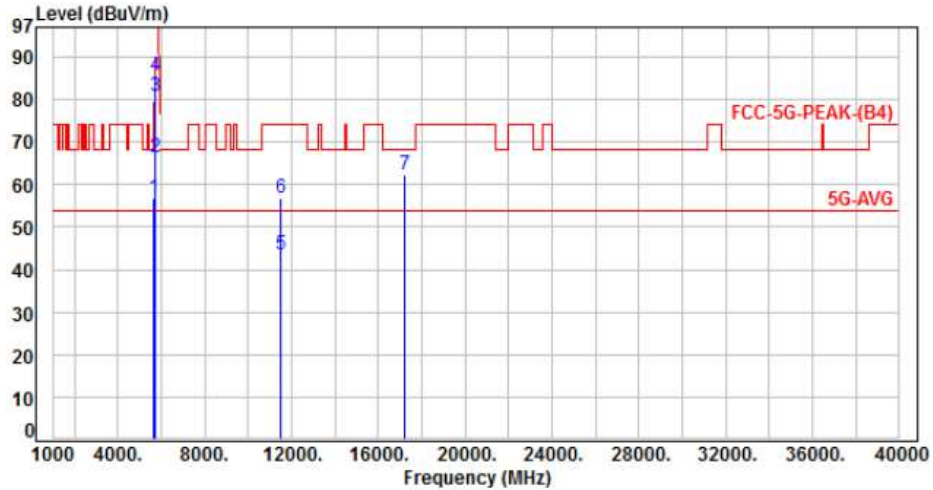


No.	Frequency (MHz)	Factor (dB)	Reading (dBUV)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5460.00	5.20	39.47	44.67	54.00	-9.33	Average	210	117	P
2	5460.00	5.20	53.15	58.35	74.00	-15.65	Peak	210	117	P
3	5470.00	5.20	53.67	58.87	68.20	-9.33	Peak	210	117	P
4	5850.00	5.21	51.47	56.68	122.20	-65.52	Peak	210	117	P
5	5855.00	5.23	52.84	58.07	110.80	-52.73	Peak	210	117	P
6	5875.00	5.31	51.68	56.99	105.20	-48.21	Peak	210	117	P
7	5925.00	5.49	52.15	57.64	68.20	-10.56	Peak	210	117	P
8	11380.00	12.91	29.70	42.61	54.00	-11.39	Average	145	94	P
9	11380.00	12.91	42.84	55.75	74.00	-18.25	Peak	145	94	P
10	17070.00	17.93	43.55	61.48	68.20	-6.72	Peak	100	135	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		:

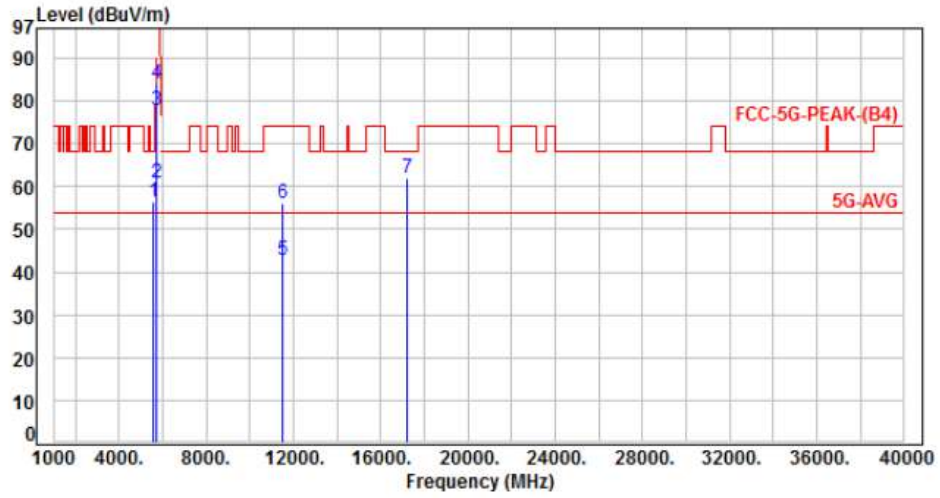


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	5.09	51.53	56.62	68.20	-11.58	Peak	249	88	P
2	5700.00	5.12	61.44	66.56	105.20	-38.64	Peak	249	88	P
3	5720.00	5.13	75.54	80.67	110.80	-30.13	Peak	249	88	P
4	5725.00	5.14	80.55	85.69	122.20	-36.51	Peak	249	88	P
5	11490.00	13.27	30.36	43.63	54.00	-10.37	Average	126	175	P
6	11490.00	13.27	43.58	56.85	74.00	-17.15	Peak	126	175	P
7	17235.00	18.83	43.66	62.49	68.20	-5.71	Peak	100	56	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		:

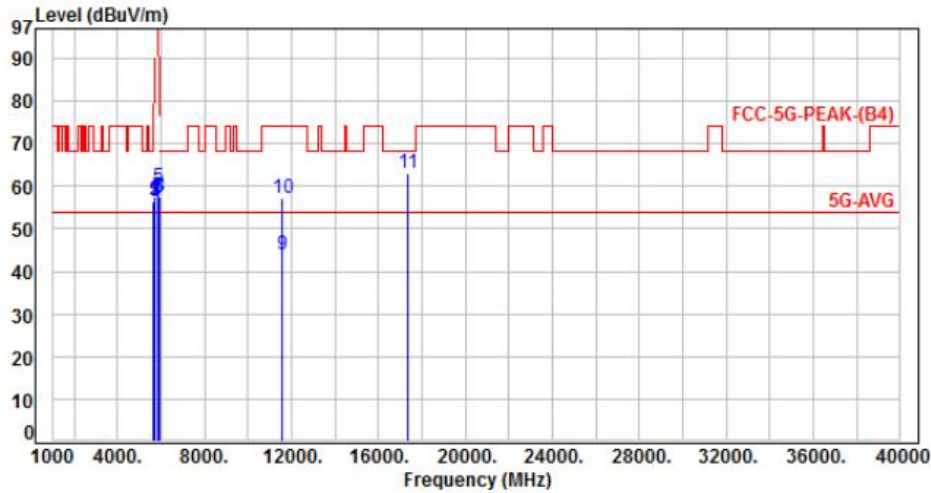


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5600.00	5.18	51.13	56.31	68.20	-11.89	Peak	144	119	P
2	5700.00	5.12	55.59	60.71	105.20	-44.49	Peak	144	119	P
3	5720.00	5.13	72.86	77.99	110.80	-32.81	Peak	144	119	P
4	5725.00	5.14	78.82	83.96	122.20	-38.24	Peak	144	119	P
5	11490.00	13.27	29.40	42.67	54.00	-11.33	Average	141	97	P
6	11490.00	13.27	42.88	56.15	74.00	-17.85	Peak	141	97	P
7	17235.00	18.83	43.26	62.09	68.20	-6.11	Peak	100	126	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		:

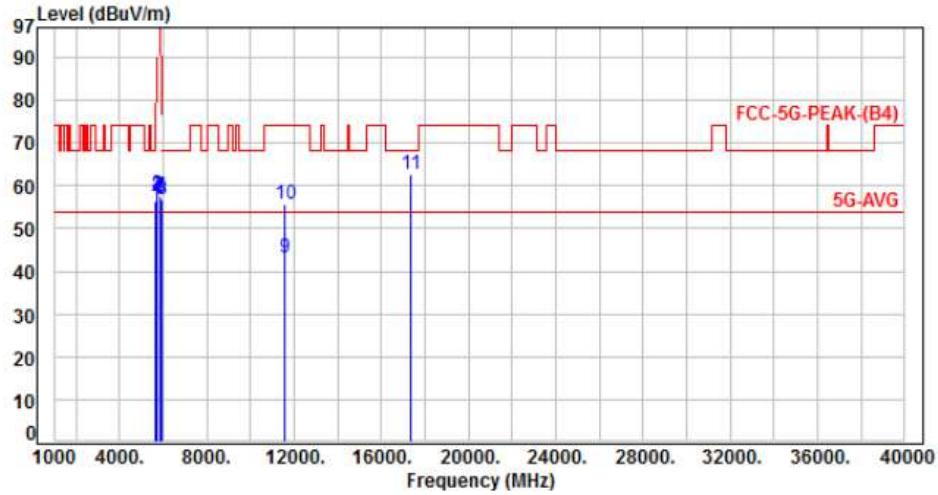


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	5.09	51.47	56.56	68.20	-11.64	Peak	245	94	P
2	5700.00	5.12	51.71	56.83	105.20	-48.37	Peak	245	94	P
3	5720.00	5.13	51.31	56.44	110.80	-54.36	Peak	245	94	P
4	5725.00	5.14	52.33	57.47	122.20	-64.73	Peak	245	94	P
5	5850.00	5.21	54.37	59.58	122.20	-62.62	Peak	245	94	P
6	5855.00	5.23	51.86	57.09	110.80	-53.71	Peak	245	94	P
7	5875.00	5.31	52.11	57.42	105.20	-47.78	Peak	245	94	P
8	5925.00	5.49	51.97	57.46	68.20	-10.74	Peak	245	94	P
9	11570.00	13.50	30.36	43.86	54.00	-10.14	Average	125	178	P
10	11570.00	13.50	43.71	57.21	74.00	-16.79	Peak	125	178	P
11	17355.00	19.47	43.51	62.98	68.20	-5.22	Peak	100	107	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		:

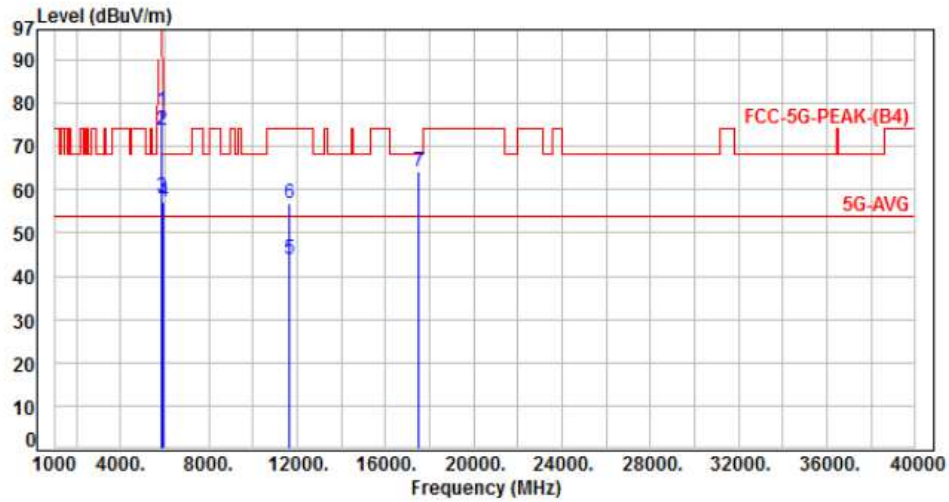


No.	Frequency (MHz)	Factor (dB)	Reading (dBUV)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	5.09	51.34	56.43	68.20	-11.77	Peak	203	120	P
2	5700.00	5.12	52.36	57.48	105.20	-47.72	Peak	203	120	P
3	5720.00	5.13	52.65	57.78	110.80	-53.02	Peak	203	120	P
4	5725.00	5.14	51.65	56.79	122.20	-65.41	Peak	203	120	P
5	5850.00	5.21	52.22	57.43	122.20	-64.77	Peak	203	120	P
6	5855.00	5.23	52.09	57.32	110.80	-53.48	Peak	203	120	P
7	5875.00	5.31	52.09	57.40	105.20	-47.80	Peak	203	120	P
8	5925.00	5.49	51.48	56.97	68.20	-11.23	Peak	203	120	P
9	11570.00	13.50	29.58	43.08	54.00	-10.92	Average	141	96	P
10	11570.00	13.50	42.34	55.84	74.00	-18.16	Peak	141	96	P
11	17355.00	19.47	43.29	62.76	68.20	-5.44	Peak	100	132	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		:

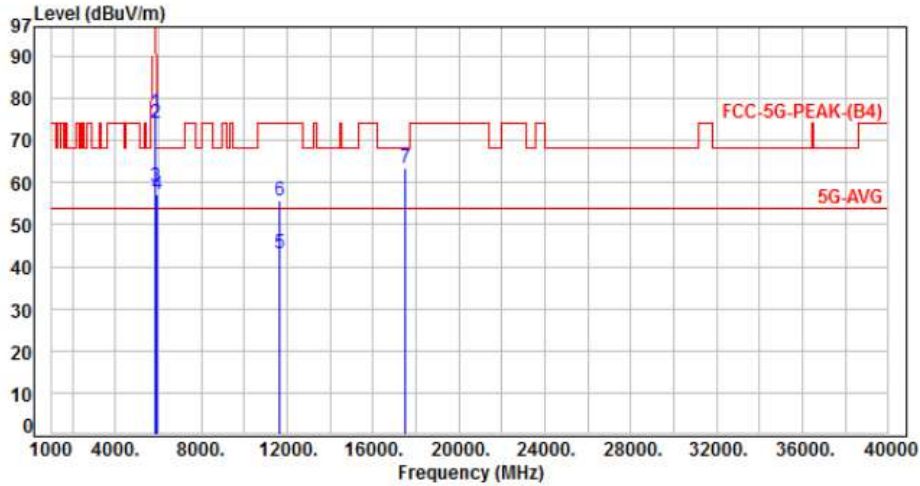


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5850.00	5.21	72.82	78.03	122.20	-44.17	Peak	224	94	P
2	5855.00	5.23	68.65	73.88	110.80	-36.92	Peak	224	94	P
3	5875.00	5.31	53.04	58.35	105.20	-46.85	Peak	224	94	P
4	5925.00	5.49	51.85	57.34	68.20	-10.86	Peak	224	94	P
5	11650.00	13.68	30.07	43.75	54.00	-10.25	Average	123	176	P
6	11650.00	13.68	43.18	56.86	74.00	-17.14	Peak	123	176	P
7	17475.00	20.39	43.79	64.18	68.20	-4.02	Peak	100	62	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		:

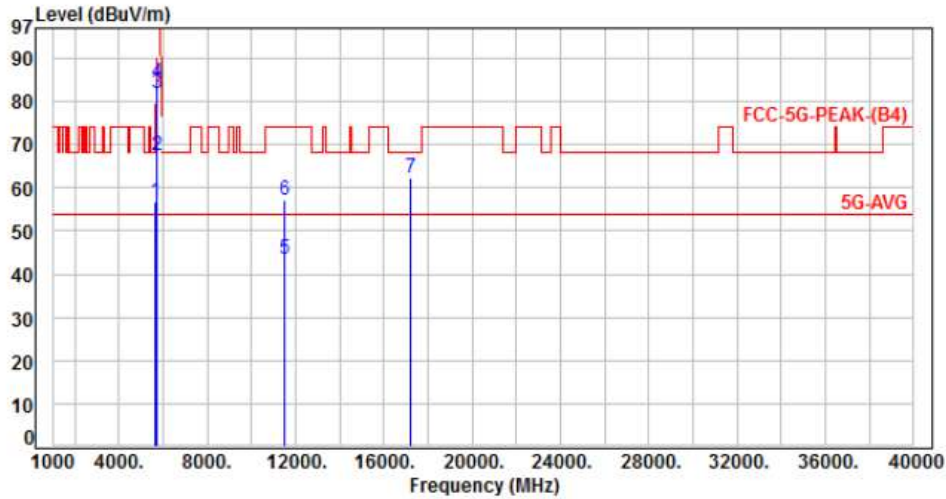


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5850.00	5.21	71.62	76.83	122.20	-45.37	Peak	207	113	P
2	5855.00	5.23	68.75	73.98	110.80	-36.82	Peak	207	113	P
3	5875.00	5.31	53.86	59.17	105.20	-46.03	Peak	207	113	P
4	5925.00	5.49	51.76	57.25	68.20	-10.95	Peak	207	113	P
5	11650.00	13.68	29.34	43.02	54.00	-10.98	Average	145	95	P
6	11650.00	13.68	42.19	55.87	74.00	-18.13	Peak	145	95	P
7	17475.00	20.39	43.13	63.52	68.20	-4.68	Peak	100	127	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, CH149		:

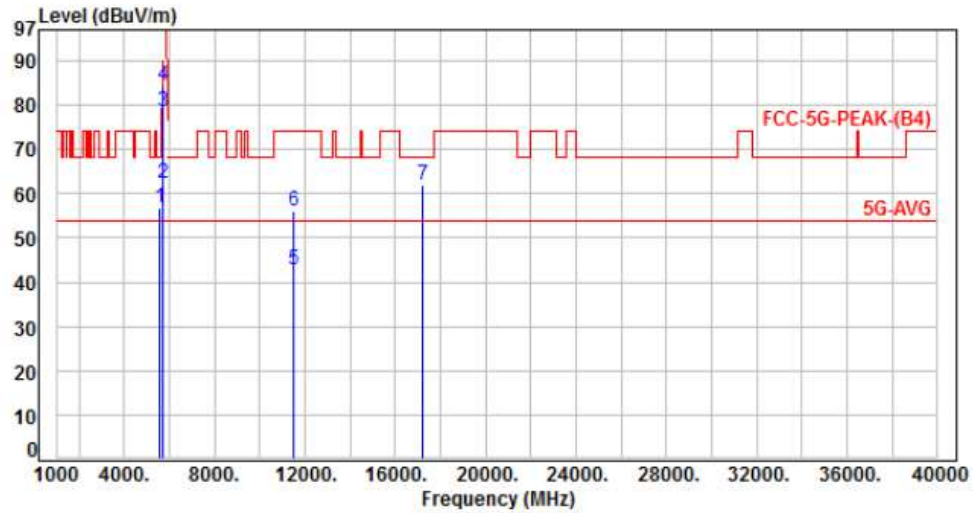


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	5.09	51.87	56.96	68.20	-11.24	Peak	252	91	P
2	5700.00	5.12	62.33	67.45	105.20	-37.75	Peak	252	91	P
3	5720.00	5.13	76.89	82.02	110.80	-28.78	Peak	252	91	P
4	5725.00	5.14	79.36	84.50	122.20	-37.70	Peak	252	91	P
5	11490.00	13.27	30.41	43.68	54.00	-10.32	Average	122	172	P
6	11490.00	13.27	43.78	57.05	74.00	-16.95	Peak	122	172	P
7	17235.00	18.83	43.51	62.34	68.20	-5.86	Peak	100	78	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, CH149		:

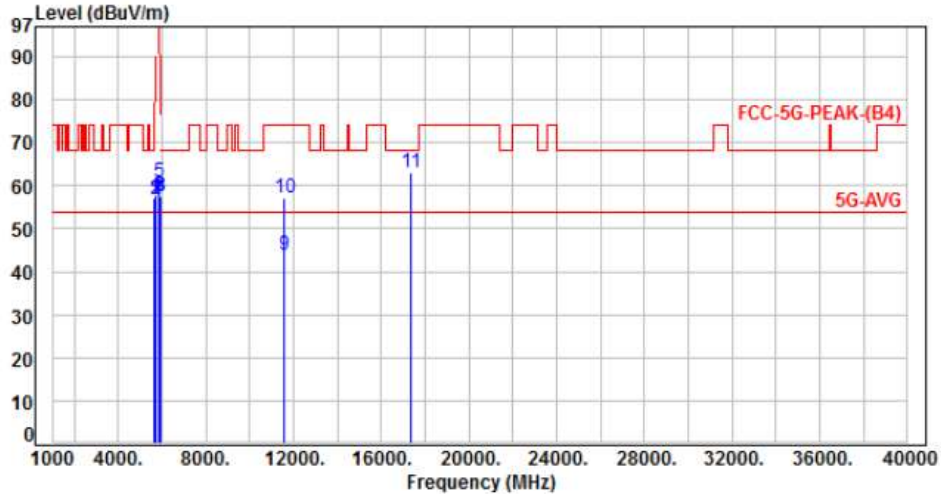


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5600.00	5.18	51.67	56.85	68.20	-11.35	Peak	145	117	P
2	5700.00	5.12	57.03	62.15	105.20	-43.05	Peak	145	117	P
3	5720.00	5.13	73.55	78.68	110.80	-32.12	Peak	145	117	P
4	5725.00	5.14	79.48	84.62	122.20	-37.58	Peak	145	117	P
5	11490.00	13.27	29.50	42.77	54.00	-11.23	Average	142	93	P
6	11490.00	13.27	42.64	55.91	74.00	-18.09	Peak	142	93	P
7	17235.00	18.83	43.19	62.02	68.20	-6.18	Peak	100	106	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, CH157		:

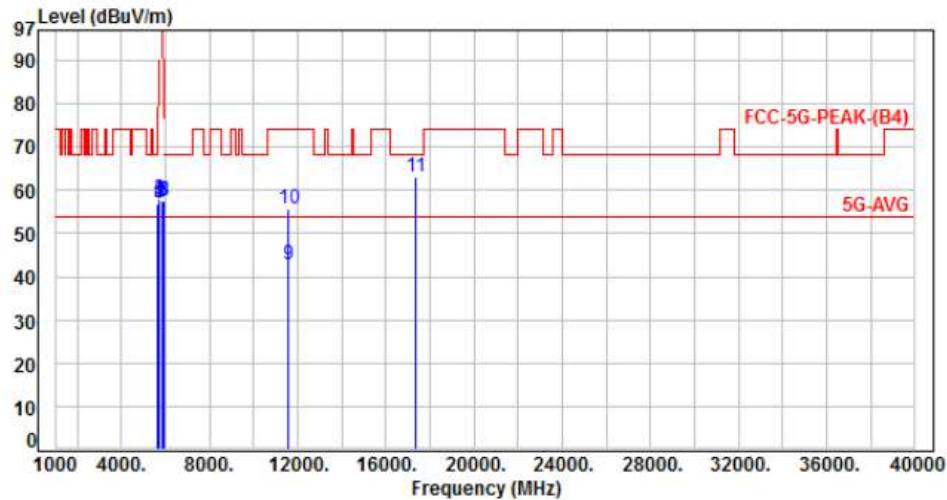


No.	Frequency (MHz)	Factor (dB)	Reading (dBUV)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	5.09	51.99	57.08	68.20	-11.12	Peak	242	91	P
2	5700.00	5.12	51.75	56.87	105.20	-48.33	Peak	242	91	P
3	5720.00	5.13	51.76	56.89	110.80	-53.91	Peak	242	91	P
4	5725.00	5.14	52.95	58.09	122.20	-64.11	Peak	242	91	P
5	5850.00	5.21	55.67	60.88	122.20	-61.32	Peak	242	91	P
6	5855.00	5.23	52.31	57.54	110.80	-53.26	Peak	242	91	P
7	5875.00	5.31	51.61	56.92	105.20	-48.28	Peak	242	91	P
8	5925.00	5.49	52.22	57.71	68.20	-10.49	Peak	242	91	P
9	11570.00	13.50	30.39	43.89	54.00	-10.11	Average	121	179	P
10	11570.00	13.50	43.75	57.25	74.00	-16.75	Peak	121	179	P
11	17355.00	19.47	43.47	62.94	68.20	-5.26	Peak	100	61	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, CH157		:

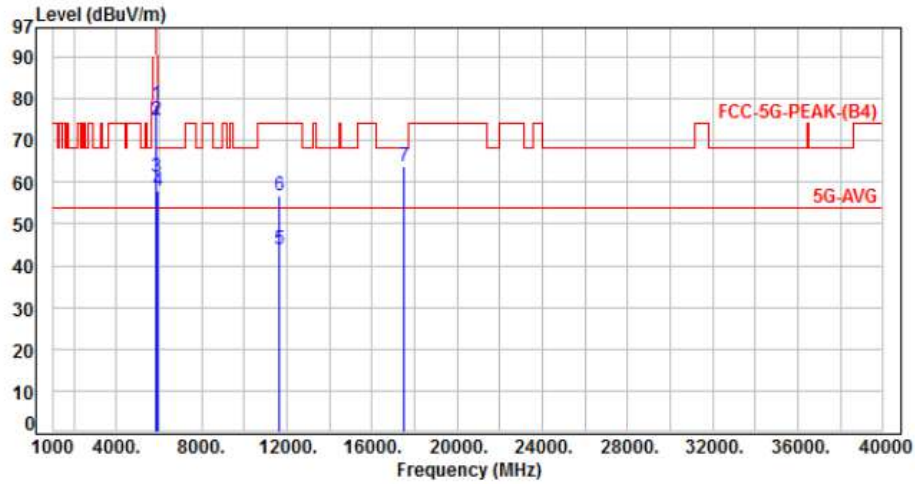


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	5.09	51.77	56.86	68.20	-11.34	Peak	205	116	P
2	5700.00	5.12	52.13	57.25	105.20	-47.95	Peak	205	116	P
3	5720.00	5.13	52.80	57.93	110.80	-52.87	Peak	205	116	P
4	5725.00	5.14	51.93	57.07	122.20	-65.13	Peak	205	116	P
5	5850.00	5.21	52.47	57.68	122.20	-64.52	Peak	205	116	P
6	5855.00	5.23	52.18	57.41	110.80	-53.39	Peak	205	116	P
7	5875.00	5.31	52.39	57.70	105.20	-47.50	Peak	205	116	P
8	5925.00	5.49	51.92	57.41	68.20	-10.79	Peak	205	116	P
9	11570.00	13.50	29.42	42.92	54.00	-11.08	Average	140	92	P
10	11570.00	13.50	42.17	55.67	74.00	-18.33	Peak	140	92	P
11	17355.00	19.47	43.69	63.16	68.20	-5.04	Peak	100	139	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, CH165		:

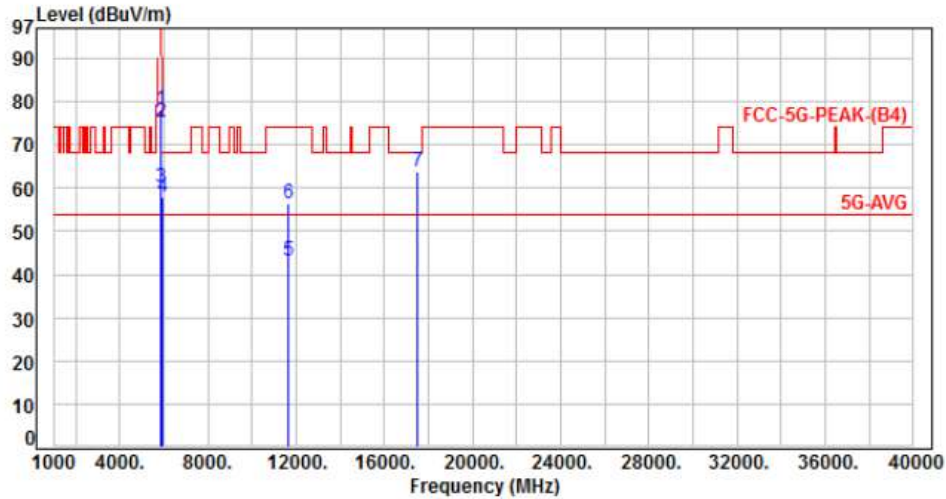


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5850.00	5.21	73.51	78.72	122.20	-43.48	Peak	225	96	P
2	5855.00	5.23	69.48	74.71	110.80	-36.09	Peak	225	96	P
3	5875.00	5.31	55.88	61.19	105.20	-44.01	Peak	225	96	P
4	5925.00	5.49	52.32	57.81	68.20	-10.39	Peak	225	96	P
5	11650.00	13.68	30.39	44.07	54.00	-9.93	Average	126	172	P
6	11650.00	13.68	43.12	56.80	74.00	-17.20	Peak	126	172	P
7	17475.00	20.39	43.51	63.90	68.20	-4.30	Peak	100	78	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, CH165		:

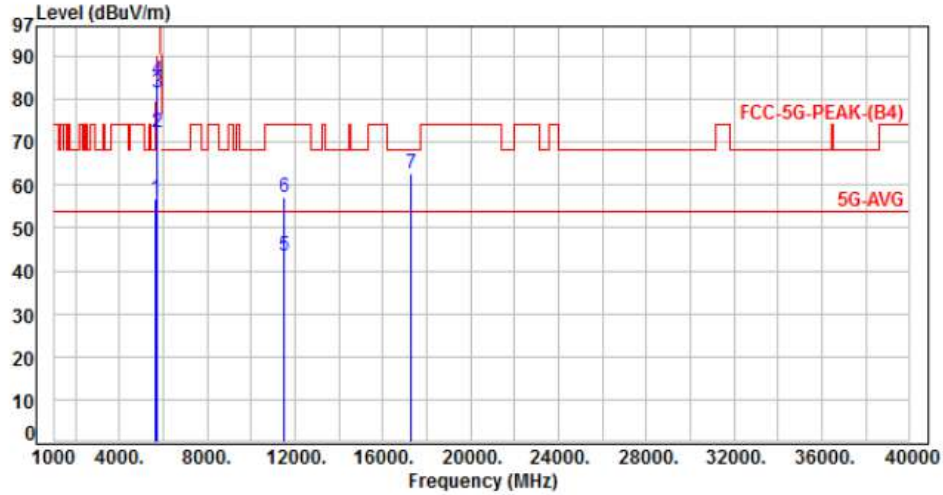


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5850.00	5.21	72.84	78.05	122.20	-44.15	Peak	210	116	P
2	5855.00	5.23	69.95	75.18	110.80	-35.62	Peak	210	116	P
3	5875.00	5.31	54.62	59.93	105.20	-45.27	Peak	210	116	P
4	5925.00	5.49	52.38	57.87	68.20	-10.33	Peak	210	116	P
5	11650.00	13.68	29.47	43.15	54.00	-10.85	Average	142	92	P
6	11650.00	13.68	42.61	56.29	74.00	-17.71	Peak	142	92	P
7	17475.00	20.39	43.44	63.83	68.20	-4.37	Peak	100	101	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 5, Band 4, CH151		:

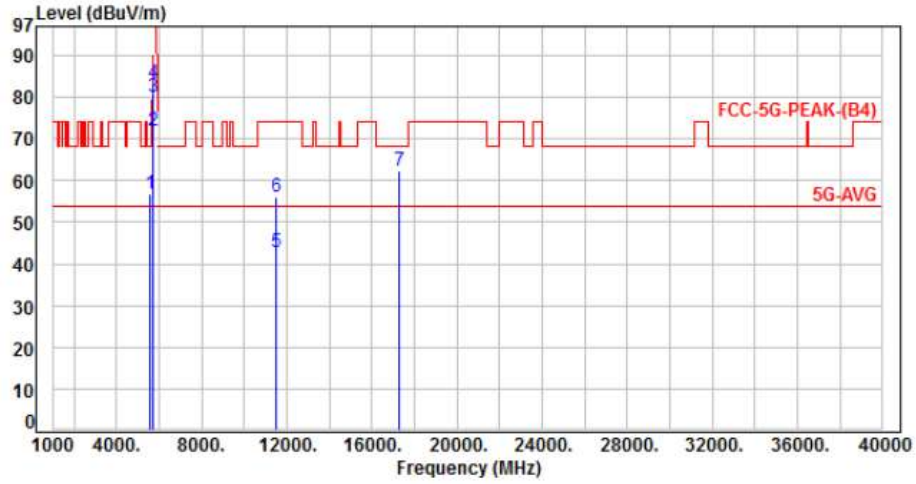


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	5.09	51.81	56.90	68.20	-11.30	Peak	224	97	P
2	5700.00	5.12	67.34	72.46	105.20	-32.74	Peak	244	97	P
3	5720.00	5.13	76.34	81.47	110.80	-29.33	Peak	244	97	P
4	5725.00	5.14	79.16	84.30	122.20	-37.90	Peak	244	97	P
5	11510.00	13.32	30.38	43.70	54.00	-10.30	Average	126	175	P
6	11510.00	13.32	43.69	57.01	74.00	-16.99	Peak	126	175	P
7	17265.00	18.96	43.76	62.72	68.20	-5.48	Peak	100	56	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 5, Band 4, CH151		:

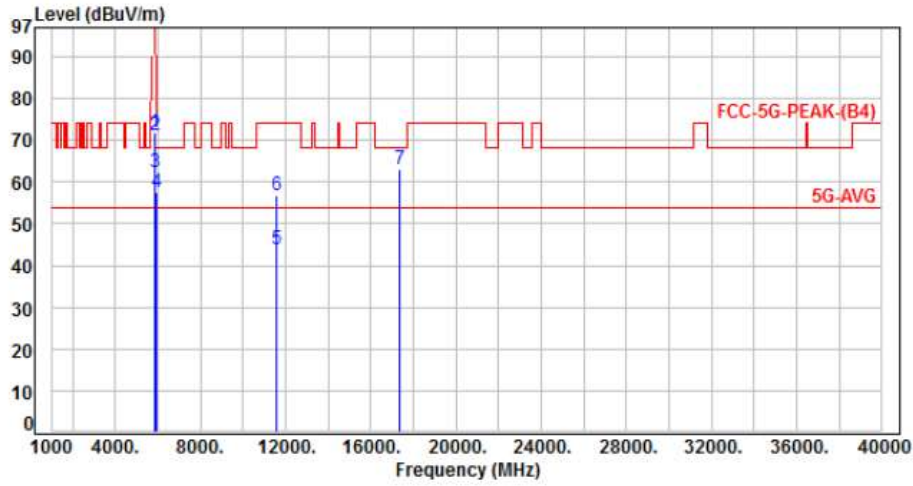


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5600.00	5.18	51.67	56.85	68.20	-11.35	Peak	211	119	P
2	5700.00	5.12	66.74	71.86	105.20	-33.34	Peak	211	119	P
3	5720.00	5.13	74.85	79.98	110.80	-30.82	Peak	211	119	P
4	5725.00	5.14	78.17	83.31	122.20	-38.89	Peak	211	119	P
5	11510.00	13.32	29.42	42.74	54.00	-11.26	Average	141	96	P
6	11510.00	13.32	42.89	56.21	74.00	-17.79	Peak	141	96	P
7	17265.00	18.96	43.39	62.35	68.20	-5.85	Peak	100	126	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 5, Band 4, CH159		

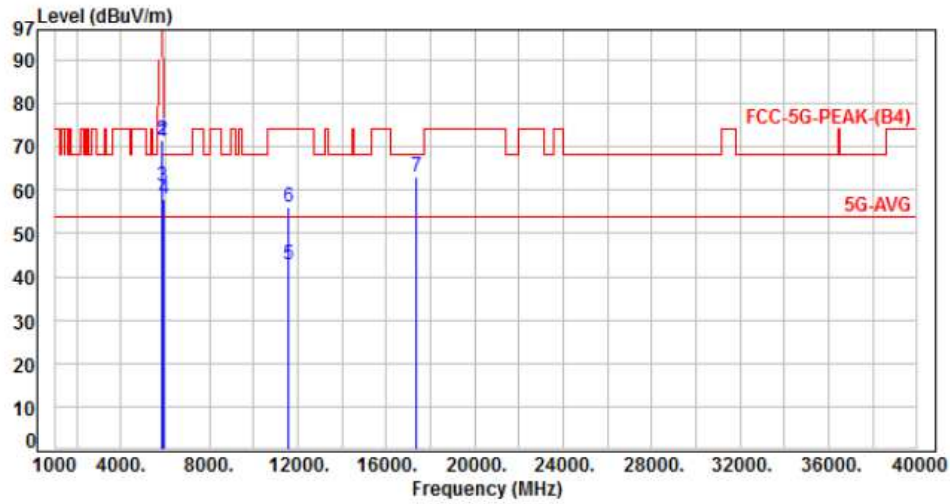


No.	Frequency (MHz)	Factor (dB)	Reading (dBUV)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5850.00	5.21	66.56	71.77	122.20	-50.43	Peak	248	96	P
2	5855.00	5.23	65.77	71.00	110.80	-39.80	Peak	248	96	P
3	5875.00	5.31	56.91	62.22	105.20	-42.98	Peak	248	96	P
4	5925.00	5.49	52.21	57.70	68.20	-10.50	Peak	248	96	P
5	11590.00	13.55	30.31	43.86	54.00	-10.14	Average	120	174	P
6	11590.00	13.55	43.28	56.83	74.00	-17.17	Peak	120	174	P
7	17385.00	19.66	43.57	63.23	68.20	-4.97	Peak	100	75	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 5, Band 4, CH159		:

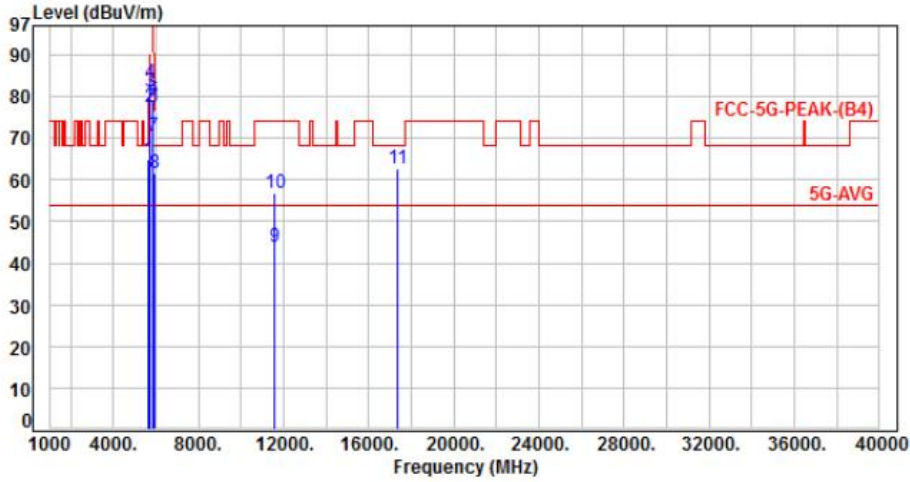


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5850.00	5.21	66.15	71.36	122.20	-50.84	Peak	219	117	P
2	5855.00	5.23	66.15	71.38	110.80	-39.42	Peak	219	117	P
3	5875.00	5.31	55.59	60.90	105.20	-44.30	Peak	219	117	P
4	5925.00	5.49	52.39	57.88	68.20	-10.32	Peak	219	117	P
5	11590.00	13.55	29.35	42.90	54.00	-11.10	Average	143	99	P
6	11590.00	13.55	42.53	56.08	74.00	-17.92	Peak	143	99	P
7	17385.00	19.66	43.29	62.95	68.20	-5.25	Peak	100	121	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 6, Band 4, CH155		:

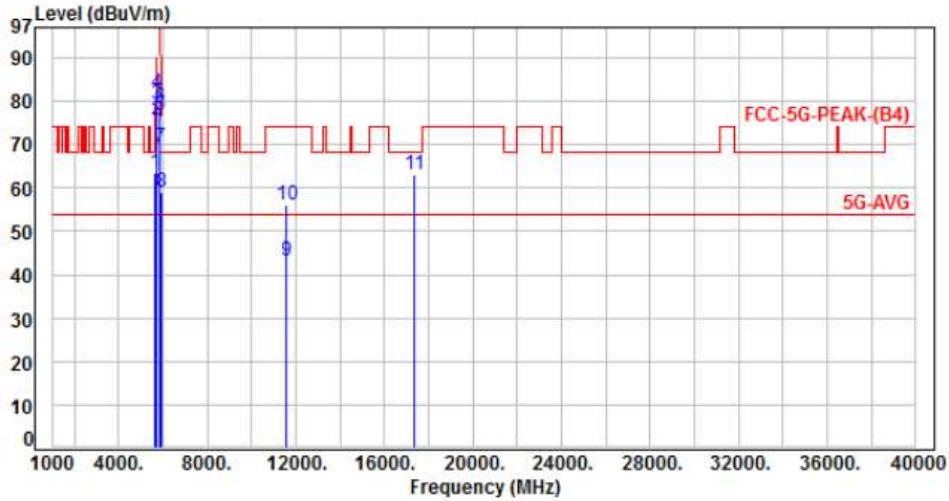


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	5.09	59.65	64.74	68.20	-3.46	Peak	250	94	P
2	5700.00	5.12	72.27	77.39	105.20	-27.81	Peak	250	94	P
3	5720.00	5.13	75.97	81.10	110.80	-29.70	Peak	250	94	P
4	5725.00	5.14	78.12	83.26	122.20	-38.94	Peak	250	94	P
5	5850.00	5.21	72.27	77.48	122.20	-44.72	Peak	250	94	P
6	5855.00	5.23	74.02	79.25	110.80	-31.55	Peak	250	94	P
7	5875.00	5.31	65.11	70.42	105.20	-34.78	Peak	250	94	P
8	5925.00	5.49	55.99	61.48	68.20	-6.72	Peak	250	94	P
9	11550.00	13.44	30.42	43.86	54.00	-10.14	Average	125	178	P
10	11550.00	13.44	43.31	56.75	74.00	-17.25	Peak	125	178	P
11	17325.00	19.27	43.59	62.86	68.20	-5.34	Peak	100	107	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 6, 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	5.09	58.34	63.43	68.20	-4.77	Peak	211	120	P
2	5700.00	5.12	70.51	75.63	105.20	-29.57	Peak	211	120	P
3	5720.00	5.13	74.30	79.43	110.80	-31.37	Peak	211	120	P
4	5725.00	5.14	76.86	82.00	122.20	-40.20	Peak	211	120	P
5	5850.00	5.21	71.56	76.77	122.20	-45.43	Peak	211	120	P
6	5855.00	5.23	73.25	78.48	110.80	-32.32	Peak	211	120	P
7	5875.00	5.31	63.94	69.25	105.20	-35.95	Peak	211	120	P
8	5925.00	5.49	53.63	59.12	68.20	-9.08	Peak	211	120	P
9	11550.00	13.44	29.64	43.08	54.00	-10.92	Average	141	96	P
10	11550.00	13.44	42.78	56.22	74.00	-17.78	Peak	141	96	P
11	17325.00	19.27	43.63	62.90	68.20	-5.30	Peak	100	132	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

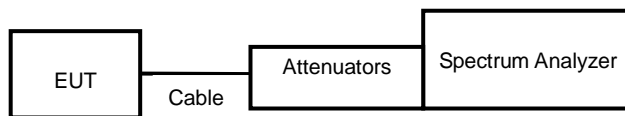
7.1. Test Limit

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 (ms)	Period Time (ms)	Duty Cycle (%)
802.11a,6M	100.00	100.00	100.00%
802.11n HT20	100.00	100.00	100.00%
802.11n HT40	100.00	100.00	100.00%
802.11ac VHT20	100.00	100.00	100.00%
802.11ac VHT40	100.00	100.00	100.00%
802.11ac VHT80	100.00	100.00	100.00%

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: 802.11n HT20 (6.5Mbps)



Modulation Type: 802.11ac VHT40 (13.5Mbps)



Modulation Type: 802.11n HT40 (13.5Mbps)



Modulation Type: 802.11ac VHT80 (29.3Mbps)





8. 6dB Bandwidth & 99% Occupied Bandwidth

8.1. Test Limit

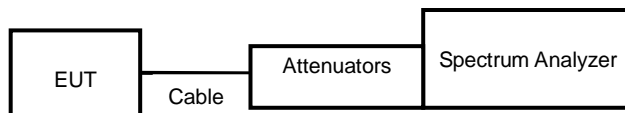
FCC §15.407

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	
11a	149	5745	16.35	0.50
11a	157	5785	16.35	0.50
11a	165	5825	16.35	0.50
11ac VHT20	149	5745	17.58	0.50
11ac VHT20	157	5785	17.58	0.50
11ac VHT20	165	5825	17.58	0.50
11ac VHT40	151	5755	35.10	0.50
11ac VHT40	159	5795	35.10	0.50
11ac VHT80	155	5775	71.28	0.50

UNII Emission Bandwidth Result (Extends across 5725MHz band)

Modulation Type	Data Rate / MCS	Frequency (MHz)	6dB Bandwidth(MHz)
			ANT A
11a	6 Mbps	5720	3.26
11n HT20	MCS 0	5720	3.80
11n HT40	MCS 0	5710	3.15
11ac VHT20	NSS1-MCS0	5720	3.80
11ac VHT40	NSS1-MCS0	5710	2.71
11ac VHT80	NSS1-MCS0	5690	3.47



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

In the 5.8G Band

Modulation Type	Channel	Frequency (MHz)	99% Bandwidth(MHz)
			ANT A
11a	149	5745	23.73
11a	157	5785	24.20
11a	165	5825	24.54
11ac VHT20	149	5745	23.84
11ac VHT20	157	5785	24.41
11ac VHT20	165	5825	24.42
11ac VHT40	151	5755	44.58
11ac VHT40	159	5795	46.19
11ac VHT80	155	5775	87.55

UNII Emission Bandwidth Result (Extends across 5725MHz band)

Modulation Type	Data Rate / MCS	Frequency (MHz)	99% Bandwidth(MHz)
			ANT A
11a	6 Mbps	5720	15.62
11n HT20	MCS 0	5720	16.15
11n HT40	MCS 0	5710	32.52
11ac VHT20	NSS1-MCS0	5720	17.32
11ac VHT40	NSS1-MCS0	5710	30.07
11ac VHT80	NSS1-MCS0	5690	58.82



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

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



CH157



CH157



CH165



CH165





6dB Bandwidth
Modulation Type: 802.11ac, VHT40 (13.5Mbps)
CH151



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



CH159





6dB Bandwidth
Extends across 5725MHz Band, Straddle Channel
Modulation Type: 802.11a (6Mbps)
CH144

802.11ac VHT20 (6.5Mbps)
CH144



Modulation Type: 802.11n HT20 (6.5Mbps)
CH144

Modulation Type: 802.11ac VHT40 (29.3Mbps)
CH142



Modulation Type: 802.11n HT40 (13.5Mbps)
CH142

Modulation Type: 802.11ac VHT80 (29.3Mbps)
CH138

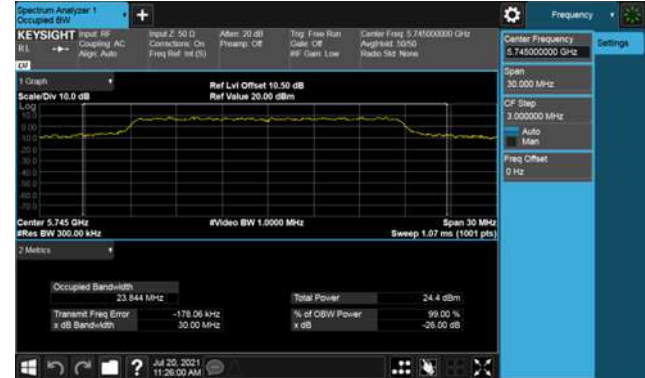




99% Occupied Bandwidth
Modulation Type: 802.11a (6Mbps)
CH149



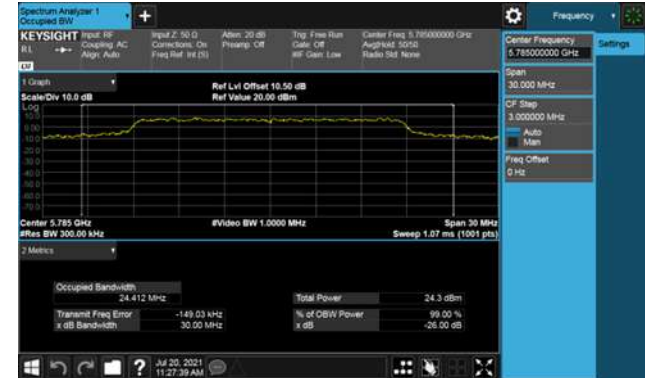
Modulation Type: 802.11ac, VHT20 (6.5Mbps)
CH149



CH157



CH157



CH165



CH165





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

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



CH159



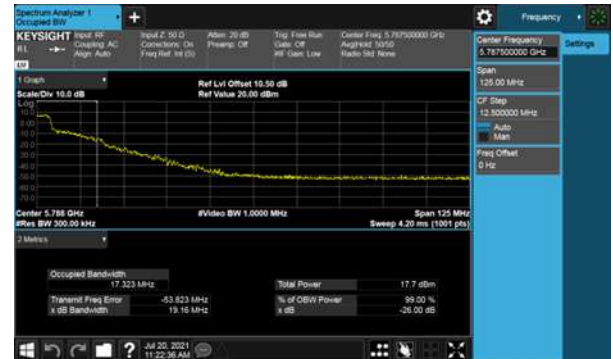
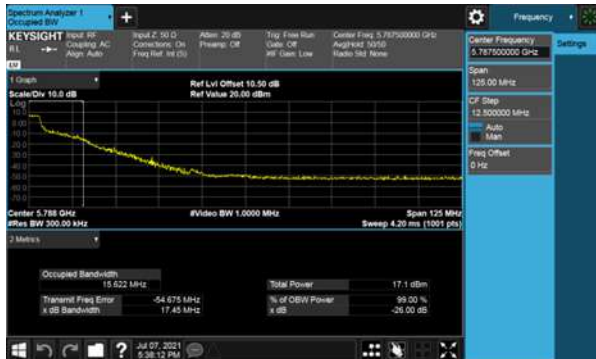


99% Bandwidth

Extends across 5725MHz Band, Straddle Channel

Modulation Type: 802.11a (6Mbps)
CH144

802.11ac VHT20 (6.5Mbps)
CH144



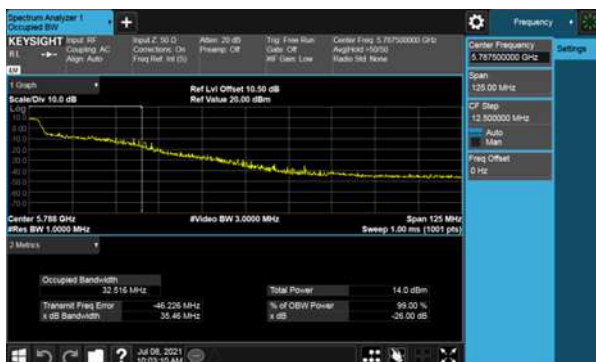
Modulation Type: 802.11n HT20 (6.5Mbps)
CH144

Modulation Type: 802.11ac VHT40 (29.3Mbps)
CH142



Modulation Type: 802.11n HT40 (13.5Mbps)
CH142

Modulation Type: 802.11ac VHT80 (29.3Mbps)
CH138





9. 26dB Bandwidth & 99% Occupied Bandwidth

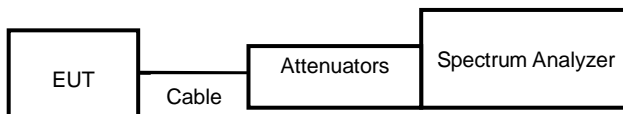
9.1. Test Limit

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

Mode	Channel	Frequency (MHz)	26dB Bandwidth(MHz)
			ANT A
11a	36	5180	34.68
11a	40	5200	35.78
11a	48	5240	38.47
11ac VHT20	36	5180	36.16
11ac VHT20	40	5200	36.13
11ac VHT20	48	5240	36.12
11ac VHT40	38	5190	51.40
11ac VHT40	46	5230	70.98
11ac VHT80	42	5210	110.30

In the 5.3G Band

Mode	Channel	Frequency (MHz)	26dB Bandwidth(MHz)
			ANT A
11a	52	5260	38.83
11a	60	5300	38.20
11a	64	5320	38.44
11ac VHT20	52	5260	36.22
11ac VHT20	60	5300	36.29
11ac VHT20	64	5320	37.22
11ac VHT40	54	5270	70.77
11ac VHT40	62	5310	60.62
11ac VHT80	58	5290	96.22

In the 5.5G Band

Mode	Channel	Frequency (MHz)	26dB Bandwidth(MHz)
			ANT A
11a	100	5500	38.39
11a	116	5580	41.38
11a	140	5700	37.10
11ac VHT20	100	5500	37.78
11ac VHT20	116	5580	45.91
11ac VHT20	140	5700	33.35
11ac VHT40	102	5510	62.56
11ac VHT40	110	5550	77.67
11ac VHT40	134	5670	81.90
11ac VHT80	106	5530	114.3
11ac VHT80	122	5610	133.1



UNII Emission Bandwidth Result (Within 5470-5725MHz band)			
Modulation Type	Data Rate / MCS	Frequency (MHz)	26dB Bandwidth(MHz)
			ANT A
11a	6 Mbps	5720	26.99
11n HT20	MCS 0	5720	29.08
11n HT40	MCS 0	5710	63.10
11ac VHT20	NSS1-MCS0	5720	28.93
11ac VHT40	NSS1-MCS0	5710	58.94
11ac VHT80	NSS1-MCS0	5690	109.90

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

In the 5.2G Band

Modulation Type	Channel	Frequency (MHz)	99% Bandwidth(MHz)
			ANT A
11a	36	5180	17.86
11a	40	5200	18.43
11a	48	5240	18.39
11ac VHT20	36	5180	18.71
11ac VHT20	40	5200	18.53
11ac VHT20	48	5240	18.76
11ac VHT40	38	5190	37.16
11ac VHT40	46	5230	37.80
11ac VHT80	42	5210	75.19

In the 5.3G Band

Modulation Type	Channel	Frequency (MHz)	99% Bandwidth(MHz)
			ANT A
11a	52	5260	18.50
11a	60	5300	18.65
11a	64	5320	18.73
11ac VHT20	52	5260	18.74
11ac VHT20	60	5300	18.83
11ac VHT20	64	5320	19.00
11ac VHT40	54	5270	37.70
11ac VHT40	62	5310	37.28
11ac VHT80	58	5290	75.04

In the 5.5G Band

Modulation Type	Channel	Frequency (MHz)	99% Bandwidth(MHz)
			ANT A
11a	100	5500	18.96
11a	116	5580	19.96
11a	140	5700	17.56
11ac VHT20	100	5500	19.18
11ac VHT20	116	5580	19.74
11ac VHT20	140	5700	18.24
11ac VHT40	102	5510	37.35
11ac VHT40	110	5550	38.20
11ac VHT40	134	5670	38.95
11ac VHT80	106	5530	75.19
11ac VHT80	122	5610	76.76



UNII Emission Bandwidth Result (Within 5470-5725MHz band)			
Modulation Type	Data Rate / MCS	Frequency (MHz)	99% Bandwidth(MHz)
			ANT A
11a	6 Mbps	5720	20.28
11n HT20	MCS 0	5720	20.37
11n HT40	MCS 0	5710	43.19
11ac VHT20	NSS1-MCS0	5720	21.80
11ac VHT40	NSS1-MCS0	5710	42.27
11ac VHT80	NSS1-MCS0	5690	79.52



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

802.11ac VHT20 (6.5Mbps)
CH36



CH40

CH40



CH48

CH48





26dB Bandwidth Band 1

Modulation Type: 802.11ac VHT40 (13.5Mbps)
CH38

Modulation Type: 802.11ac VHT80 (29.3Mbps)
CH42



CH46





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

802.11ac VHT20 (6.5Mbps)
CH52



CH60

CH60



CH64

CH64





26dB Bandwidth Band 2

Modulation Type: 802.11ac VHT40 (13.5Mbps)
CH54

Modulation Type: 802.11ac VHT80 (29.3Mbps)
CH58



CH62





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

802.11ac VHT20 (6.5Mbps)
CH100



CH116

CH116



CH140

CH140





26dB Bandwidth Band 3

Modulation Type: 802.11ac VHT40 (13.5Mbps)
CH102

Modulation Type: 802.11ac VHT80 (29.3Mbps)
CH102



CH110



CH122



CH134





26dB Bandwidth

Within 5470-5725MHz Band, Straddle Channel

Modulation Type: 802.11a (6Mbps)
CH144

802.11ac VHT20 (6.5Mbps)
CH144



Modulation Type: 802.11n HT20 (6.5Mbps)
CH144

Modulation Type: 802.11ac VHT40 (29.3Mbps)
CH142



Modulation Type: 802.11n HT40 (13.5Mbps)
CH142

Modulation Type: 802.11ac VHT80 (29.3Mbps)
CH138





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

802.11ac VHT20 (6.5Mbps)
CH36



CH40

CH40



CH48

CH48





99% Bandwidth Band 1

Modulation Type: 802.11ac VHT40 (13.5Mbps)
CH38

Modulation Type: 802.11ac VHT80 (29.3Mbps)
CH42



CH46





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

802.11ac VHT20 (6.5Mbps)
CH52



CH60

CH60



CH64

CH64

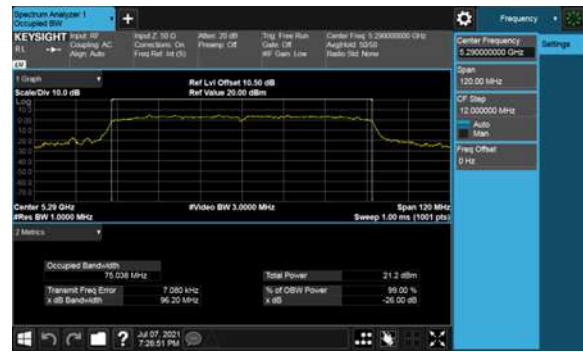




99% Bandwidth Band 2

Modulation Type: 802.11ac VHT40 (13.5Mbps)
CH54

Modulation Type: 802.11ac VHT80 (29.3Mbps)
CH58



CH62





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

802.11ac VHT20 (6.5Mbps)
CH100



CH116

CH116



CH140

CH140





99% Bandwidth Band 3

Modulation Type: 802.11ac VHT40 (13.5Mbps)
CH102

Modulation Type: 802.11ac VHT80 (29.3Mbps)
CH102



CH110



CH122



CH134





99% Bandwidth

Within 5470-5725MHz Band, Straddle Channel

Modulation Type: 802.11a (6Mbps)
CH144

802.11ac VHT20 (6.5Mbps)
CH144



Modulation Type: 802.11n HT20 (6.5Mbps)
CH144

Modulation Type: 802.11ac VHT40 (29.3Mbps)
CH142



Modulation Type: 802.11n HT40 (13.5Mbps)
CH142

Modulation Type: 802.11ac VHT80 (29.3Mbps)
CH138





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 checked="" 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.



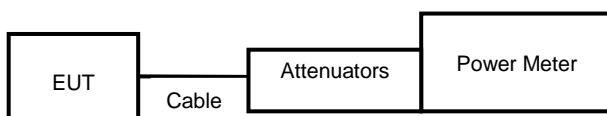
Frequency Band	Limit
<input checked="" type="checkbox"/> 5.25-5.35 GHz	The maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW (24dBm) or 11 dBm 10 log B, where B is the 26 dB emission bandwidth in megahertz. If transmitting antennas of directional 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	

10.2. Test Procedure

The transmitter output is connected to a power meter.

The cable assembly insertion loss of 10.5 dB (including 10 dB pad and 0.5 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**

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			
11a	6 Mbps	16	36	5180	15.70	15.70	37.154	24.00
11a	6 Mbps	16	40	5200	15.77	15.77	37.757	24.00
11a	6 Mbps	16	48	5240	15.75	15.75	37.584	24.00
11n HT20	MCS 0	16	36	5180	15.66	15.66	36.813	24.00
11n HT20	MCS 0	16	40	5200	15.90	15.90	38.905	24.00
11n HT20	MCS 0	16	48	5240	15.75	15.75	37.584	24.00
11n HT40	MCS 0	14	38	5190	13.65	13.65	23.174	24.00
11n HT40	MCS 0	16	46	5230	15.76	15.76	37.670	24.00
11ac VHT20	NSS1-MCS0	16	36	5180	15.69	15.69	37.068	24.00
11ac VHT20	NSS1-MCS0	16	40	5200	15.94	15.94	39.264	24.00
11ac VHT20	NSS1-MCS0	16	48	5240	15.77	15.77	37.757	24.00
11ac VHT40	NSS1-MCS0	14	38	5190	13.69	13.69	23.388	24.00
11ac VHT40	NSS1-MCS0	16	46	5230	15.79	15.79	37.931	24.00
11ac VHT80	NSS1-MCS0	14	42	5210	14.07	14.07	25.527	24.00



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			
11a	6 Mbps	16	52	5260	15.86	15.86	38.548	24.00
11a	6 Mbps	16	60	5300	15.85	15.85	38.459	24.00
11a	6 Mbps	16	64	5320	15.84	15.84	38.371	24.00
11n HT20	MCS 0	16	52	5260	15.84	15.84	38.371	24.00
11n HT20	MCS 0	16	60	5300	15.84	15.84	38.371	24.00
11n HT20	MCS 0	16	64	5320	15.89	15.89	38.815	24.00
11n HT40	MCS 0	16	54	5270	15.69	15.69	37.068	24.00
11n HT40	MCS 0	14	62	5310	14.15	14.15	26.002	24.00
11ac VHT20	NSS1-MCS0	16	52	5260	15.86	15.86	38.548	24.00
11ac VHT20	NSS1-MCS0	16	60	5300	15.88	15.88	38.726	24.00
11ac VHT20	NSS1-MCS0	16	64	5320	15.92	15.92	39.084	24.00
11ac VHT40	NSS1-MCS0	16	54	5270	15.73	15.73	37.411	24.00
11ac VHT40	NSS1-MCS0	14	62	5310	14.19	14.19	26.242	24.00
11ac VHT80	NSS1-MCS0	12.5	58	5290	13.04	13.04	20.137	24.00



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			
11a	6 Mbps	16.5	100	5500	15.68	15.68	36.983	24.00
11a	6 Mbps	17.5	116	5580	16.21	16.21	41.783	24.00
11a	6 Mbps	13	140	5700	13.24	13.24	21.086	24.00
11n HT20	MCS 0	16.5	100	5500	15.58	15.58	36.141	24.00
11n HT20	MCS 0	17.5	116	5580	16.29	16.29	42.560	24.00
11n HT20	MCS 0	12.5	140	5700	12.78	12.78	18.967	24.00
11n HT40	MCS 0	14.5	102	5510	14.04	14.04	25.351	24.00
11n HT40	MCS 0	16.5	110	5550	15.72	15.72	37.325	24.00
11n HT40	MCS 0	17	134	5670	15.84	15.84	38.371	24.00
11ac VHT20	NSS1-MCS0	16.5	100	5500	15.62	15.62	36.475	24.00
11ac VHT20	NSS1-MCS0	17.5	116	5580	16.32	16.32	42.855	24.00
11ac VHT20	NSS1-MCS0	12.5	140	5700	12.81	12.81	19.099	24.00
11ac VHT40	NSS1-MCS0	14.5	102	5510	14.06	14.06	25.468	24.00
11ac VHT40	NSS1-MCS0	16.5	110	5550	15.75	15.75	37.584	24.00
11ac VHT40	NSS1-MCS0	17	134	5670	15.87	15.87	38.637	24.00
11ac VHT80	NSS1-MCS0	14	106	5530	13.66	13.66	23.227	24.00
11ac VHT80	NSS1-MCS0	17	122	5610	16.05	16.05	40.272	24.00



FCC Maximum Conducted Output Power (Within 5470-5725MHz band) RF Output Power(dBm)									
Setting	Modulation Type	Data Rate	Frequency (MHz)	W/O Duty Factor Measured value of each antenna port (dBm)	W/O duty factor Total power (dBm)	Duty Factor (dB)	With duty factor Total power (mW)	With duty factor Total power (dBm)	FCC Limit (dBm)
				ANT A					
18.5	11a	6M	5720	15.74	15.74	0.00	37.497	15.74	24.00
18.5	11n HT20	MCS0	5720	15.42	15.42	0.00	34.834	15.42	24.00
18	11n HT40	MCS0	5710	16.29	16.29	0.00	42.560	16.29	24.00
18.5	11ac VHT20	NSS1-MCS0	5720	15.81	15.81	0.00	38.107	15.81	24.00
18	11ac VHT40	NSS1-MCS0	5710	16.37	16.37	0.00	43.351	16.37	24.00
18	11ac VHT80	NSS1-MCS0	5690	16.42	16.42	0.00	43.853	16.42	24.00

FCC Maximum Conducted Output Power (Extends across 5725MHz band) RF Output Power(dBm)									
Setting	Modulation Type	Data Rate	Frequency (MHz)	W/O Duty Factor Measured value of each antenna port (dBm)	W/O duty factor Total power (dBm)	Duty Factor (dB)	With duty factor Total power (mW)	With duty factor Total power (dBm)	FCC Limit (dBm)
				ANT A					
18.5	11a	6M	5720	10.08	10.08	0.00	10.186	10.08	30.00
18.5	11n HT20	MCS0	5720	10.08	10.08	0.00	10.186	10.08	30.00
18	11n HT40	MCS0	5710	5.43	5.43	0.00	3.491	5.43	30.00
18.5	11ac VHT20	NSS1-MCS0	5720	10.41	10.41	0.00	10.990	10.41	30.00
18	11ac VHT40	NSS1-MCS0	5710	5.50	5.50	0.00	3.548	5.50	30.00
18	11ac VHT80	NSS1-MCS0	5690	0.67	0.67	0.00	1.167	0.67	30.00

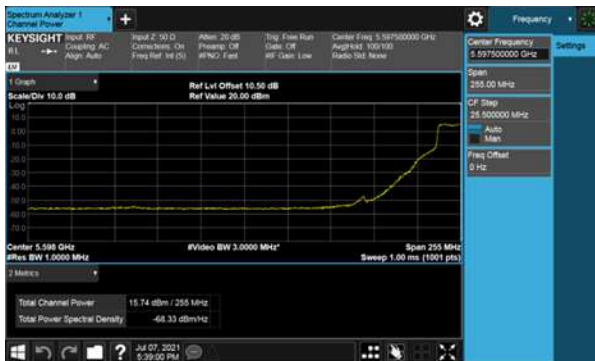


Modulation Type	Data Rate	Setting	Channel	Frequency (MHz)	Measured value of each antenna port (dBm)	Total power (dBm)	Total power (mW)	FCC Limit (dBm)
					ANT A			
11a	6 Mbps	18.5	149	5745	17.19	17.19	52.360	30.00
11a	6 Mbps	18.5	157	5785	17.07	17.07	50.933	30.00
11a	6 Mbps	18.5	165	5825	17.13	17.13	51.642	30.00
11n HT20	MCS 0	18.5	149	5745	17.33	17.33	54.075	30.00
11n HT20	MCS 0	18.5	157	5785	17.06	17.06	50.816	30.00
11n HT20	MCS 0	18.5	165	5825	17.20	17.20	52.481	30.00
11n HT40	MCS 0	18.5	151	5755	17.10	17.10	51.286	30.00
11n HT40	MCS 0	18.5	159	5795	17.07	17.07	50.933	30.00
11ac VHT20	NSS1-MCS0	18.5	149	5745	17.35	17.35	54.325	30.00
11ac VHT20	NSS1-MCS0	18.5	157	5785	17.09	17.09	51.168	30.00
11ac VHT20	NSS1-MCS0	18.5	165	5825	17.23	17.23	52.845	30.00
11ac VHT40	NSS1-MCS0	18.5	151	5755	17.14	17.14	51.761	30.00
11ac VHT40	NSS1-MCS0	18.5	159	5795	17.11	17.11	51.404	30.00
11ac VHT80	NSS1-MCS0	18.5	155	5775	16.90	16.90	48.978	30.00



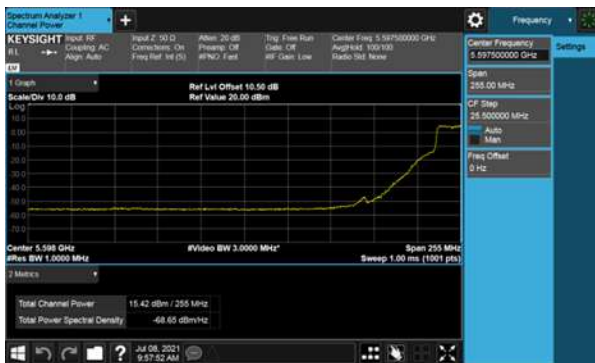
Within 5470-5725MHz Band, Straddle Channel
Modulation Type: 802.11a (6Mbps)
CH144

802.11ac VHT20 (6.5Mbps)
CH144



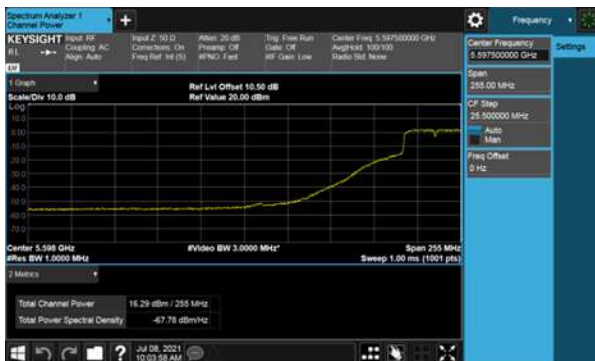
Modulation Type: 802.11n HT20 (6.5Mbps)
CH144

802.11ac VHT40 (13.5Mbps)
CH142



Modulation Type: 802.11n HT40 (13.5Mbps)
CH142

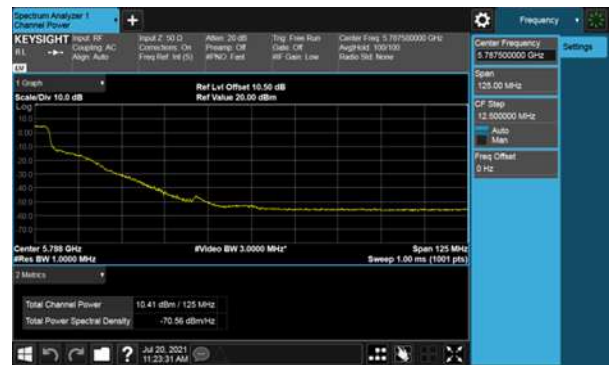
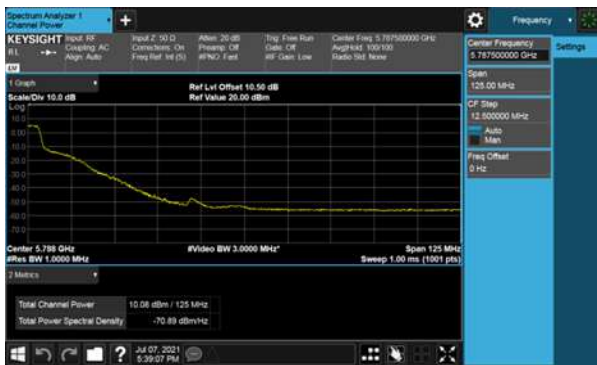
Modulation Type: 802.11ac VHT80 (29.3Mbps)
CH138





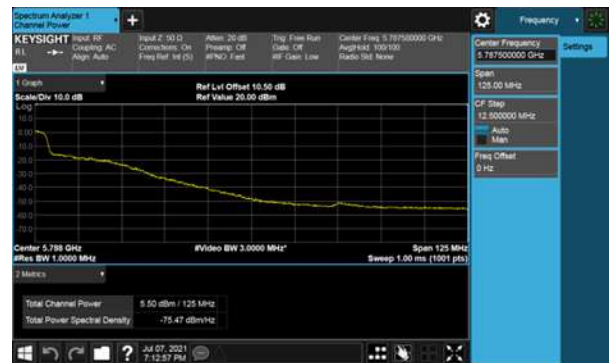
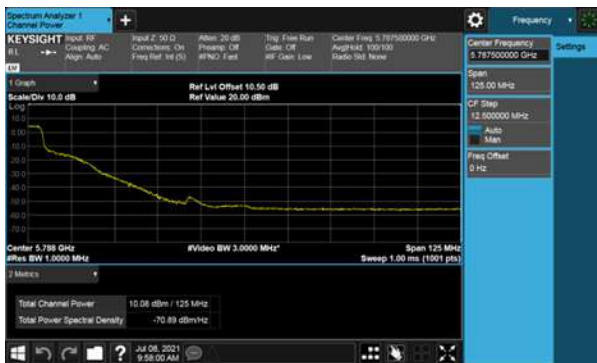
Extends across 5725MHz band, Straddle Channel
Modulation Type: 802.11a (6Mbps)
CH144

802.11ac VHT20 (6.5Mbps)
CH144



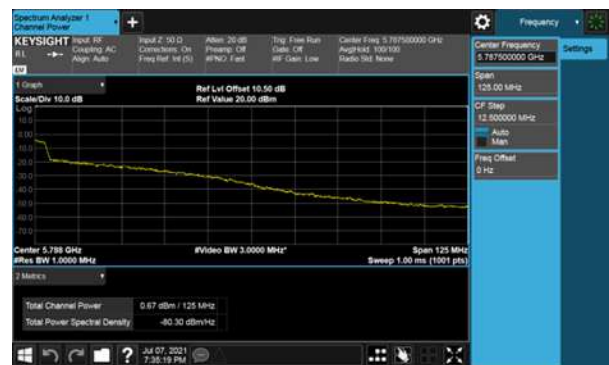
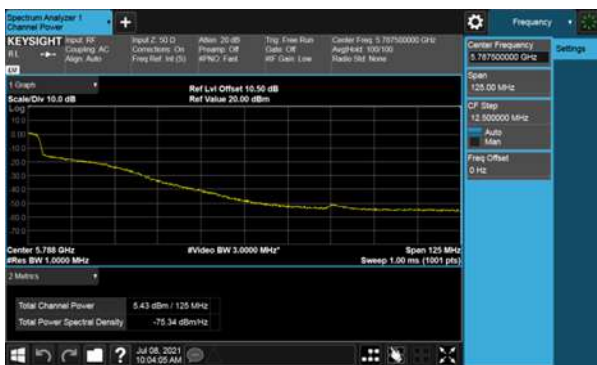
Modulation Type: 802.11n HT20 (6.5Mbps)
CH144

802.11ac VHT40 (13.5Mbps)
CH142



Modulation Type: 802.11n HT40 (13.5Mbps)
CH142

Modulation Type: 802.11ac VHT80 (29.3Mbps)
CH138





11. Power Spectral Density

11.1. Test Limit

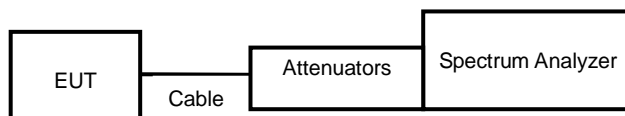
PSD:

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	Channel	Frequency (MHz)	Meas PSD (dBm/MHz)	Sum chain (dBm)	Duty Cycle CF(dB)	Total Corr'd PSD (dBm/MHz)	PSD Limit (dBm/MHz)
			ANT A				
11a	36	5180	3.95	3.95	0.00	3.95	11.00
11a	40	5200	4.34	4.34	0.00	4.34	11.00
11a	48	5240	4.40	4.40	0.00	4.40	11.00
11ac VHT20	36	5180	3.98	3.98	0.00	3.98	11.00
11ac VHT20	40	5200	3.59	3.59	0.00	3.59	11.00
11ac VHT20	48	5240	4.03	4.03	0.00	4.03	11.00
11ac VHT40	38	5190	-0.88	-0.88	0.00	-0.88	11.00
11ac VHT40	46	5230	1.24	1.24	0.00	1.24	11.00
11ac VHT80	42	5210	-3.50	-3.50	0.00	-3.50	11.00

In the 5.3G Band

Modulation Type	Channel	Frequency (MHz)	Meas PSD (dBm/MHz)	Sum chain (dBm)	Duty Cycle CF(dB)	Total Corr'd PSD (dBm/MHz)	PSD Limit (dBm/MHz)
			ANT A				
11a	52	5260	4.43	4.43	0.00	4.43	11.00
11a	60	5300	4.46	4.46	0.00	4.46	11.00
11a	64	5320	4.42	4.42	0.00	4.42	11.00
11ac VHT20	52	5260	4.07	4.07	0.00	4.07	11.00
11ac VHT20	60	5300	4.16	4.16	0.00	4.16	11.00
11ac VHT20	64	5320	4.26	4.26	0.00	4.26	11.00
11ac VHT40	54	5270	1.18	1.18	0.00	1.18	11.00
11ac VHT40	62	5310	-0.02	-0.02	0.00	-0.02	11.00
11ac VHT80	58	5290	-4.14	-4.14	0.00	-4.14	11.00



In the 5.5G Band

Modulation Type	Channel (MHz)	Frequency (MHz)	Meas PSD (dBm/MHz)	Sum chain (dBm)	Duty Cycle CF(dB)	Total Corr'd PSD (dBm/MHz)	PSD Limit (dBm/MHz)
			ANT A				
11a	100	5500	4.40	4.40	0.00	4.40	11.00
11a	116	5580	4.71	4.71	0.00	4.71	11.00
11a	140	5700	1.72	1.72	0.00	1.72	11.00
11a	144	5720	5.04	5.04	0.00	5.04	11.00
11ac VHT20	100	5500	4.24	4.24	0.00	4.24	11.00
11ac VHT20	116	5580	4.41	4.41	0.00	4.41	11.00
11ac VHT20	140	5700	1.22	1.22	0.00	1.22	11.00
11ac VHT20	144	5720	4.96	4.96	0.00	4.96	11.00
11ac VHT40	102	5510	-0.06	-0.06	0.00	-0.06	11.00
11ac VHT40	110	5550	1.29	1.29	0.00	1.29	11.00
11ac VHT40	134	5670	1.50	1.50	0.00	1.50	11.00
11ac VHT40	142	5710	1.89	1.89	0.00	1.89	11.00
11ac VHT80	106	5530	-3.63	-3.63	0.00	-3.63	11.00
11ac VHT80	122	5610	-1.22	-1.22	0.00	-1.22	11.00
11ac VHT80	138	5690	-1.00	-1.00	0.00	-1.00	11.00

In the 5.8G Band

Modulation Type	Channel (MHz)	Frequency (MHz)	Meas PSD (dBm/MHz)	Sum chain (dBm)	Duty Cycle CF(dB)	10log(500KHz/RBW) CF (dB)	Total Corr'd PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)
			ANT A					
11a	149	5745	5.65	5.65	0.00	-3.01	2.64	30.00
11a	157	5785	5.37	5.37	0.00	-3.01	2.36	30.00
11a	165	5825	5.31	5.31	0.00	-3.01	2.30	30.00
11ac VHT20	149	5745	5.14	5.14	0.00	-3.01	2.13	30.00
11ac VHT20	157	5785	5.03	5.03	0.00	-3.01	2.02	30.00
11ac VHT20	165	5825	4.79	4.79	0.00	-3.01	1.78	30.00
11ac VHT40	151	5755	2.20	2.20	0.00	-3.01	-0.81	30.00
11ac VHT40	159	5795	2.19	2.19	0.00	-3.01	-0.82	30.00
11ac VHT80	155	5775	-0.55	-0.55	0.00	-3.01	-3.56	30.00



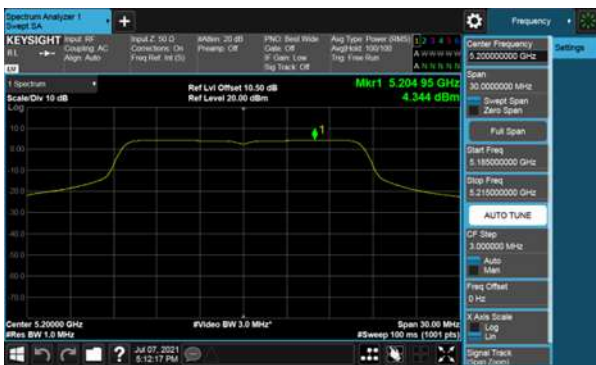
Modulation Type: 802.11a (6Mbps)
CH36



Modulation Type: 802.11ac VHT20 (6.5Mbps)
CH36



CH40



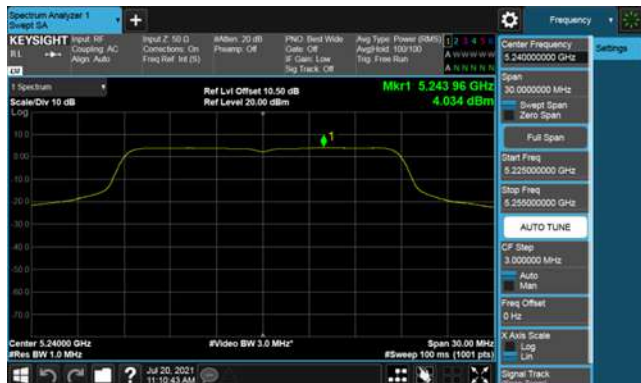
CH40



CH48



CH48





Modulation Type: 802.11ac VHT40 (13.5Mbps)
CH38

Modulation Type: 802.11ac VHT80 (29.3Mbps)
CH42



CH46





Modulation Type: 802.11a (6Mbps)
CH52

802.11ac VHT20 (6.5Mbps)
CH52



CH60

CH60



CH64

CH64





Modulation Type: 802.11ac VHT40 (13.5Mbps)
CH54



Modulation Type: 802.11ac VHT80 (29.3Mbps)
CH58



CH62





Modulation Type: 802.11a (6Mbps)
CH100



802.11ac VHT20 (6.5Mbps)
CH100



CH116



CH116



CH140



CH140





Modulation Type: 802.11ac VHT40 (13.5Mbps)
CH102



Modulation Type: 802.11ac VHT80 (29.3Mbps)
CH106



CH110



CH122



CH134





Straddle Channel
Modulation Type: 802.11a (6Mbps)
CH144



Modulation Type: 802.11ac VHT80 (29.3Mbps)
CH138



Modulation Type: 802.11ac VHT20 (6.5Mbps)
CH144



Modulation Type: 802.11ac VHT40 (13.5Mbps)
CH142





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

