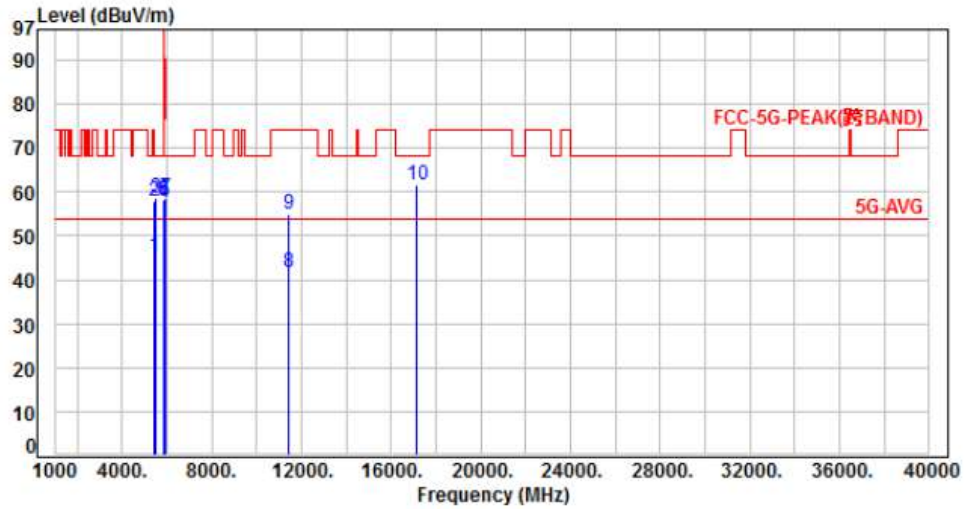




Power	: AC 120V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 1, Band 3 Straddle Channel, CH144		:

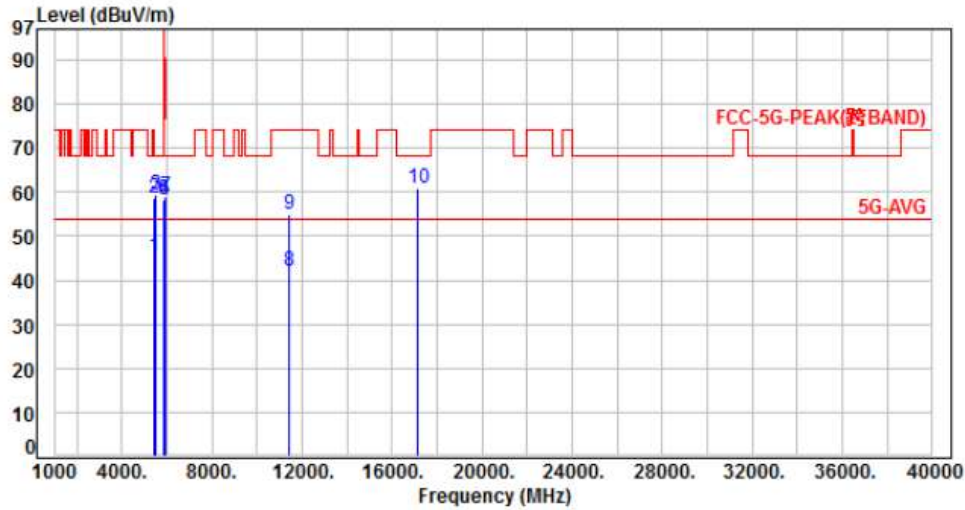


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5460.00	5.20	40.20	45.40	54.00	-8.60	Average	100	0	P
2	5460.00	5.20	52.76	57.96	74.00	-16.04	Peak	100	0	P
3	5470.00	5.20	53.38	58.58	68.20	-9.62	Peak	100	0	P
4	5850.00	5.21	52.39	57.60	122.20	-64.60	Peak	100	0	P
5	5855.00	5.23	52.77	58.00	110.80	-52.80	Peak	100	0	P
6	5875.00	5.31	52.84	58.15	105.20	-47.05	Peak	100	0	P
7	5925.00	5.49	53.28	58.77	68.20	-9.43	Peak	100	0	P
8	11440.00	13.08	28.75	41.83	54.00	-12.17	Average	100	48	P
9	11440.00	13.08	41.87	54.95	74.00	-19.05	Peak	100	48	P
10	17160.00	18.42	43.36	61.78	68.20	-6.42	Peak	100	26	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		:

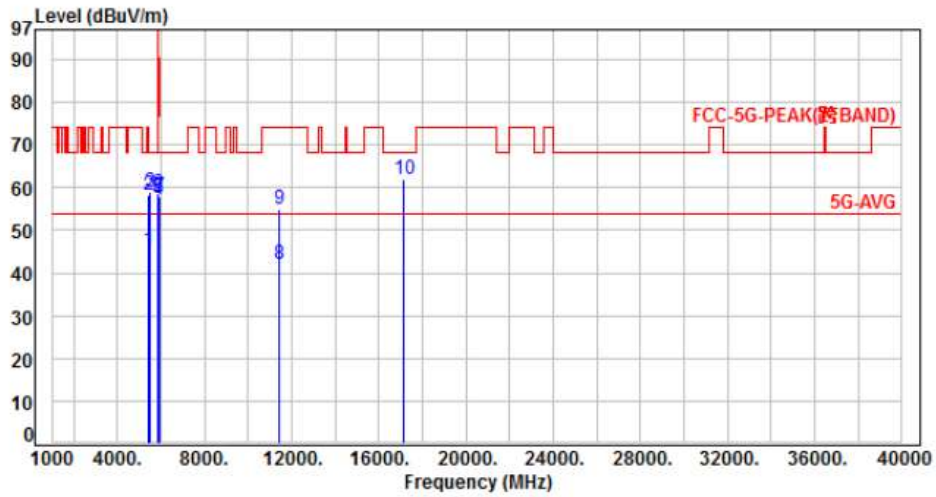


No.	Frequency (MHz)	Factor (dB)	Reading (dBUV)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5460.00	5.20	40.21	45.41	54.00	-8.59	Average	195	2	P
2	5460.00	5.20	53.40	58.60	74.00	-15.40	Peak	195	2	P
3	5470.00	5.20	54.08	59.28	68.20	-8.92	Peak	195	2	P
4	5850.00	5.21	53.20	58.41	122.20	-63.79	Peak	195	2	P
5	5855.00	5.23	52.95	58.18	110.80	-52.62	Peak	195	2	P
6	5875.00	5.31	53.14	58.45	105.20	-46.75	Peak	195	2	P
7	5925.00	5.49	53.38	58.87	68.20	-9.33	Peak	195	2	P
8	11440.00	13.08	28.82	41.90	54.00	-12.10	Average	100	302	P
9	11440.00	13.08	41.94	55.02	74.00	-18.98	Peak	100	302	P
10	17160.00	18.42	42.41	60.83	68.20	-7.37	Peak	100	298	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		

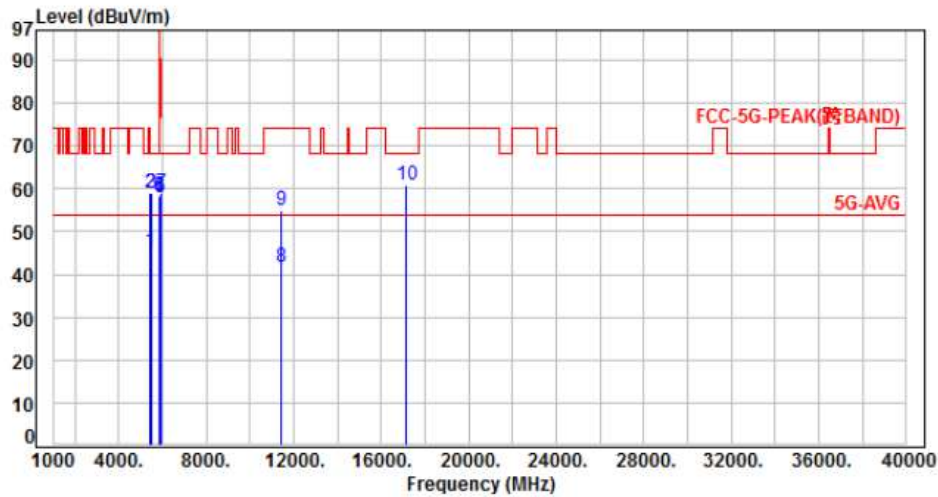


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5460.00	5.20	40.33	45.53	54.00	-8.47	Average	100	360	P
2	5460.00	5.20	53.01	58.21	74.00	-15.79	Peak	100	360	P
3	5470.00	5.20	53.69	58.89	68.20	-9.31	Peak	100	360	P
4	5850.00	5.21	51.90	57.11	122.20	-65.09	Peak	100	360	P
5	5855.00	5.23	52.46	57.69	110.80	-53.11	Peak	100	360	P
6	5875.00	5.31	53.21	58.52	105.20	-46.68	Peak	100	360	P
7	5925.00	5.49	52.55	58.04	68.20	-10.16	Peak	100	360	P
8	11440.00	13.08	28.87	41.95	54.00	-12.05	Average	100	51	P
9	11440.00	13.08	41.75	54.83	74.00	-19.17	Peak	100	51	P
10	17160.00	18.42	43.53	61.95	68.20	-6.25	Peak	100	33	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		:

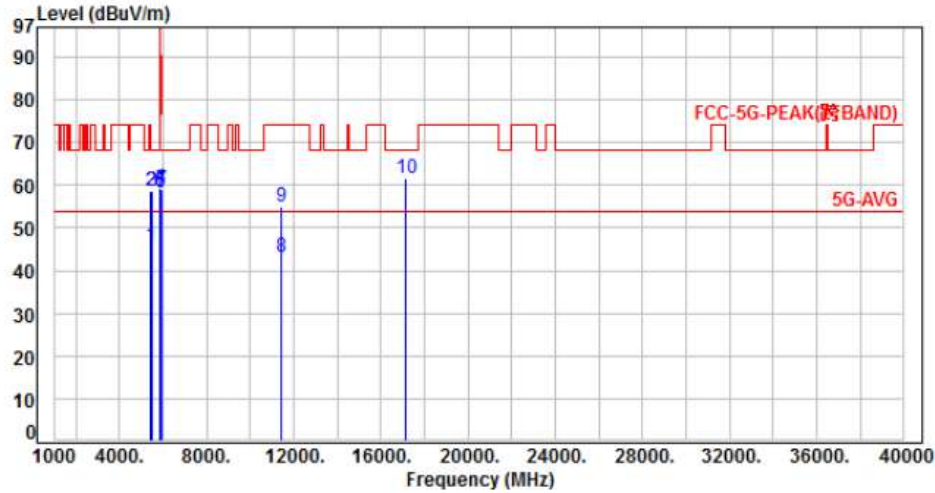


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5460.00	5.20	40.31	45.51	54.00	-8.49	Average	186	4	P
2	5460.00	5.20	53.64	58.84	74.00	-15.16	Peak	186	4	P
3	5470.00	5.20	53.90	59.10	68.20	-9.10	Peak	186	4	P
4	5850.00	5.21	52.72	57.93	122.20	-64.27	Peak	186	4	P
5	5855.00	5.23	52.97	58.20	110.80	-52.60	Peak	186	4	P
6	5875.00	5.31	52.68	57.99	105.20	-47.21	Peak	186	4	P
7	5925.00	5.49	53.46	58.95	68.20	-9.25	Peak	186	4	P
8	11440.00	13.08	28.76	41.84	54.00	-12.16	Average	100	305	P
9	11440.00	13.08	41.83	54.91	74.00	-19.09	Peak	100	305	P
10	17160.00	18.42	42.55	60.97	68.20	-7.23	Peak	100	301	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		

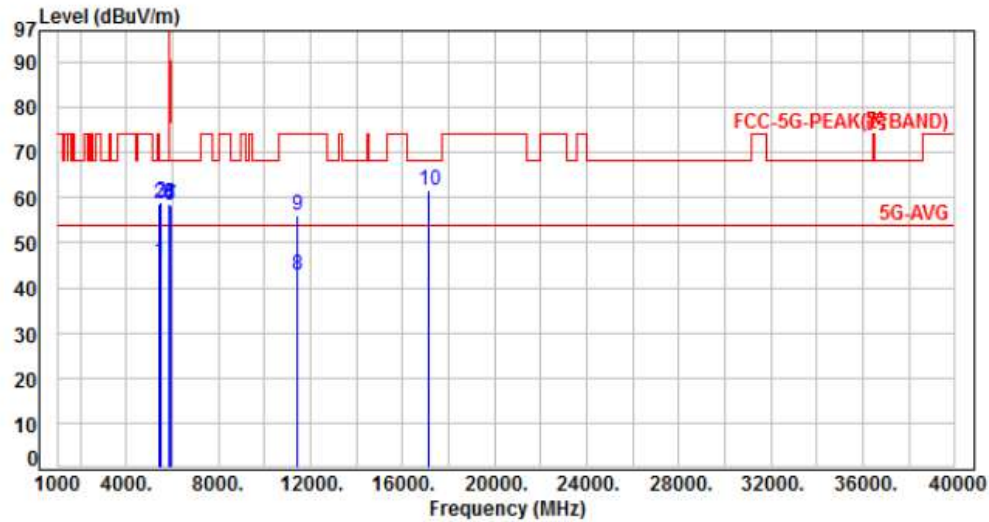


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5460.00	5.20	40.61	45.81	54.00	-8.19	Average	100	0	P
2	5460.00	5.20	53.26	58.46	74.00	-15.54	Peak	100	0	P
3	5470.00	5.20	53.60	58.80	68.20	-9.40	Peak	100	0	P
4	5850.00	5.21	54.16	59.37	122.20	-62.83	Peak	100	0	P
5	5855.00	5.23	53.50	58.73	110.80	-52.07	Peak	100	0	P
6	5875.00	5.31	52.95	58.26	105.20	-46.94	Peak	100	0	P
7	5925.00	5.49	53.43	58.92	68.20	-9.28	Peak	100	0	P
8	11420.00	13.01	29.97	42.98	54.00	-11.02	Average	100	46	P
9	11420.00	13.01	42.08	55.09	74.00	-18.91	Peak	100	46	P
10	17130.00	18.23	43.42	61.65	68.20	-6.55	Peak	100	31	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		:

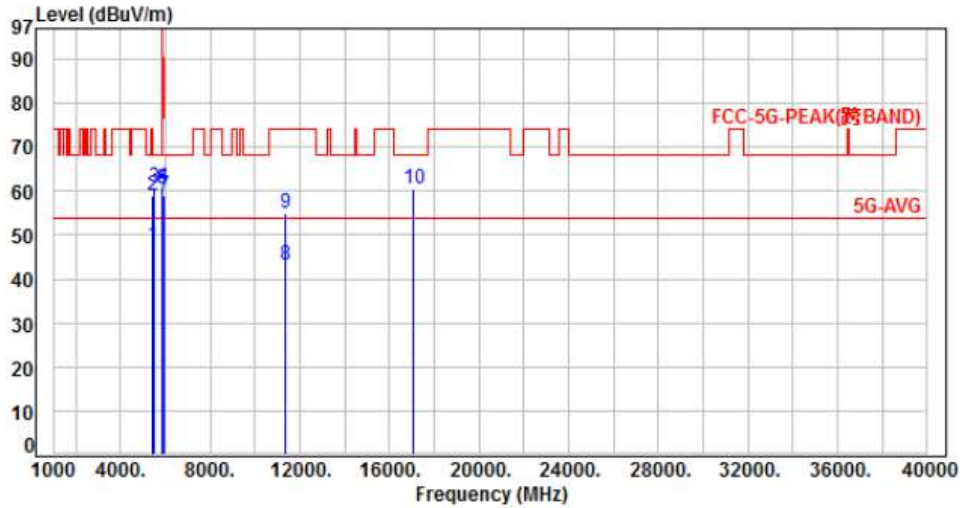


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5460.00	5.20	40.60	45.80	54.00	-8.20	Average	166	360	P
2	5460.00	5.20	53.31	58.51	74.00	-15.49	Peak	166	360	P
3	5470.00	5.20	53.76	58.96	68.20	-9.24	Peak	166	360	P
4	5850.00	5.21	53.11	58.32	122.20	-63.88	Peak	166	360	P
5	5855.00	5.23	53.43	58.66	110.80	-52.14	Peak	166	360	P
6	5875.00	5.31	53.14	58.45	105.20	-46.75	Peak	166	360	P
7	5925.00	5.49	52.64	58.13	68.20	-10.07	Peak	166	360	P
8	11420.00	13.01	29.83	42.84	54.00	-11.16	Average	100	299	P
9	11420.00	13.01	43.14	56.15	74.00	-17.85	Peak	100	299	P
10	17130.00	18.23	43.24	61.47	68.20	-6.73	Peak	100	303	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		:

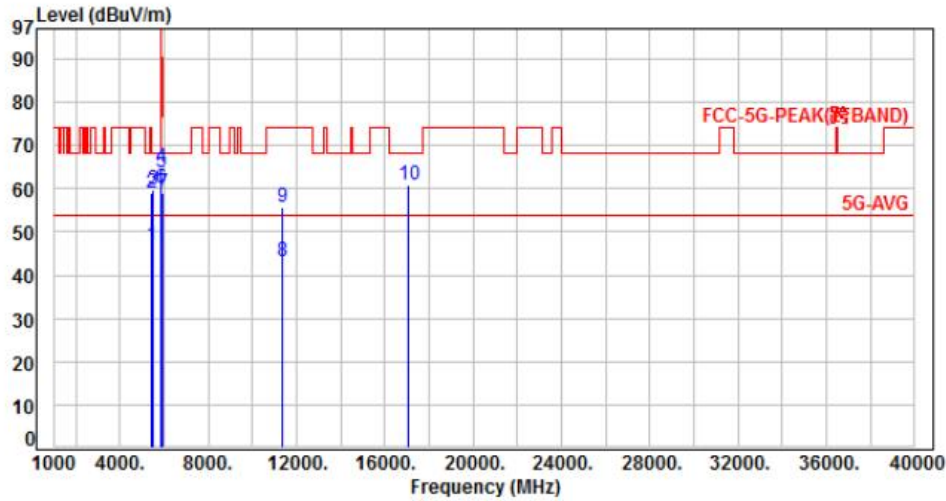


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5460.00	5.20	42.28	47.48	54.00	-6.52	Average	100	2	P
2	5460.00	5.20	53.92	59.12	74.00	-14.88	Peak	100	2	P
3	5470.00	5.20	55.81	61.01	68.20	-7.19	Peak	100	2	P
4	5850.00	5.21	55.48	60.69	122.20	-61.51	Peak	100	2	P
5	5855.00	5.23	55.17	60.40	110.80	-50.40	Peak	100	2	P
6	5875.00	5.31	55.11	60.42	105.20	-44.78	Peak	100	0	P
7	5925.00	5.49	53.47	58.96	68.20	-9.24	Peak	100	2	P
8	11380.00	12.91	30.25	43.16	54.00	-10.84	Average	100	44	P
9	11380.00	12.91	42.22	55.13	74.00	-18.87	Peak	100	44	P
10	17070.00	17.93	42.58	60.51	68.20	-7.69	Peak	100	28	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		:

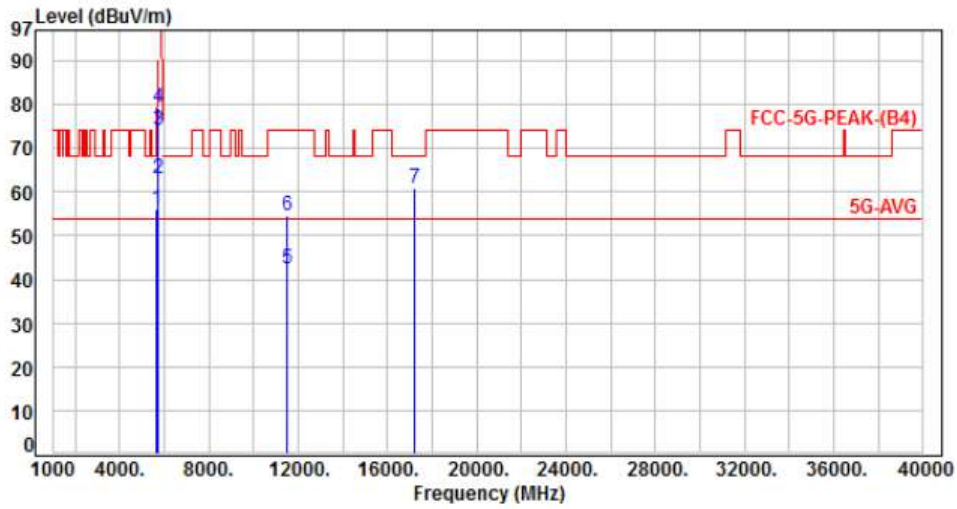


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5460.00	5.20	41.73	46.93	54.00	-7.07	Average	177	4	P
2	5460.00	5.20	53.65	58.85	74.00	-15.15	Peak	177	4	P
3	5470.00	5.20	54.53	59.73	68.20	-8.47	Peak	177	4	P
4	5850.00	5.21	59.54	64.75	122.20	-57.45	Peak	177	4	P
5	5855.00	5.23	58.63	63.86	110.80	-46.94	Peak	177	4	P
6	5875.00	5.31	54.72	60.03	105.20	-45.17	Peak	177	4	P
7	5925.00	5.49	53.59	59.08	68.20	-9.12	Peak	177	4	P
8	11380.00	12.91	30.31	43.22	54.00	-10.78	Average	100	307	P
9	11380.00	12.91	42.60	55.51	74.00	-18.49	Peak	100	307	P
10	17070.00	17.93	42.90	60.83	68.20	-7.37	Peak	100	302	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		:

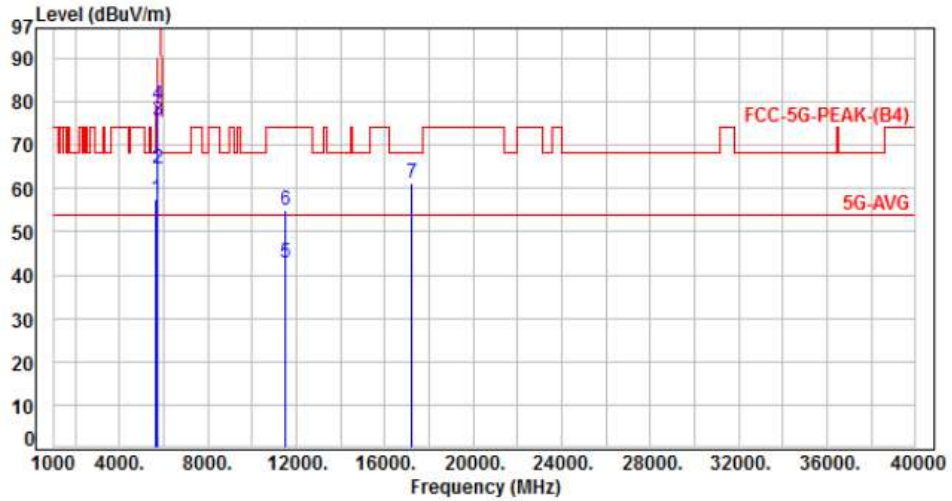


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	5.09	51.13	56.22	68.20	-11.98	Peak	116	6	P
2	5700.00	5.12	57.97	63.09	105.20	-42.11	Peak	116	6	P
3	5720.00	5.13	69.11	74.24	110.80	-36.56	Peak	116	6	P
4	5725.00	5.14	74.03	79.17	122.20	-43.03	Peak	116	6	P
5	11490.00	13.27	29.15	42.42	54.00	-11.58	Average	100	50	P
6	11490.00	13.27	41.14	54.41	74.00	-19.59	Peak	100	50	P
7	17235.00	18.83	42.19	61.02	68.20	-7.18	Peak	100	27	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		:

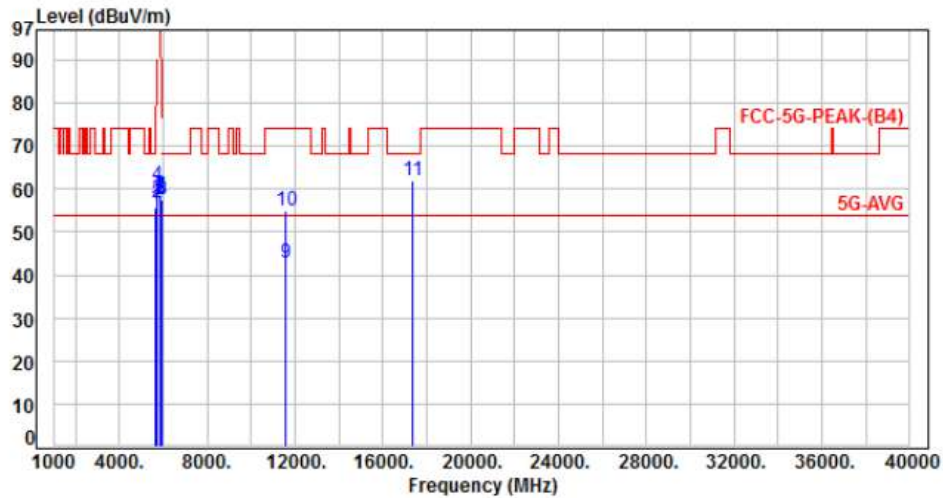


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	5.09	52.48	57.57	68.20	-10.63	Peak	180	354	P
2	5700.00	5.12	59.58	64.70	105.20	-40.50	Peak	180	354	P
3	5720.00	5.13	70.56	75.69	110.80	-35.11	Peak	180	354	P
4	5725.00	5.14	74.23	79.37	122.20	-42.83	Peak	180	354	P
5	11490.00	13.27	29.34	42.61	54.00	-11.39	Average	100	297	P
6	11490.00	13.27	41.68	54.95	74.00	-19.05	Peak	100	297	P
7	17235.00	18.83	42.39	61.22	68.20	-6.98	Peak	100	267	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		:

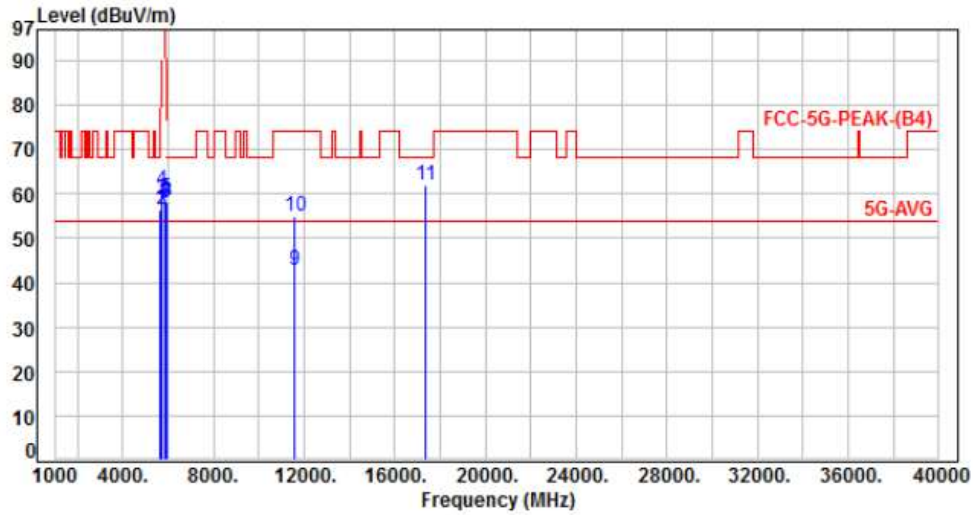


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	5.09	50.42	55.51	68.20	-12.69	Peak	100	19	P
2	5700.00	5.12	51.54	56.66	105.20	-48.54	Peak	100	19	P
3	5720.00	5.13	52.31	57.44	110.80	-53.36	Peak	100	19	P
4	5725.00	5.14	55.89	61.03	122.20	-61.17	Peak	100	19	P
5	5850.00	5.21	52.87	58.08	122.20	-64.12	Peak	100	19	P
6	5855.00	5.23	52.22	57.45	110.80	-53.35	Peak	100	19	P
7	5875.00	5.31	52.98	58.29	105.20	-46.91	Peak	100	19	P
8	5925.00	5.49	51.93	57.42	68.20	-10.78	Peak	100	19	P
9	11570.00	13.50	29.14	42.64	54.00	-11.36	Average	100	79	P
10	11570.00	13.50	41.28	54.78	74.00	-19.22	Peak	100	79	P
11	17355.00	19.47	42.34	61.81	68.20	-6.39	Peak	100	42	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		:

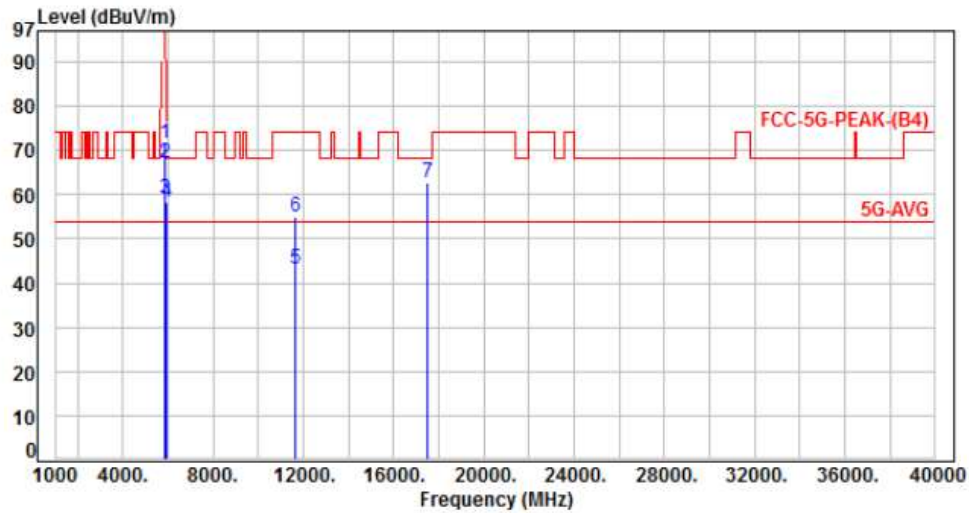


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	5.09	51.35	56.44	68.20	-11.76	Peak	186	351	P
2	5700.00	5.12	51.31	56.43	105.20	-48.77	Peak	186	351	P
3	5720.00	5.13	53.33	58.46	110.80	-52.34	Peak	186	351	P
4	5725.00	5.14	55.66	60.80	122.20	-61.40	Peak	186	351	P
5	5850.00	5.21	53.77	58.98	122.20	-63.22	Peak	186	351	P
6	5855.00	5.23	52.57	57.80	110.80	-53.00	Peak	186	351	P
7	5875.00	5.31	52.34	57.65	105.20	-47.55	Peak	186	351	P
8	5925.00	5.49	52.73	58.22	68.20	-9.98	Peak	186	351	P
9	11570.00	13.50	29.34	42.84	54.00	-11.16	Average	100	323	P
10	11570.00	13.50	41.64	55.14	74.00	-18.86	Peak	100	323	P
11	17355.00	19.47	42.51	61.98	68.20	-6.22	Peak	100	266	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		

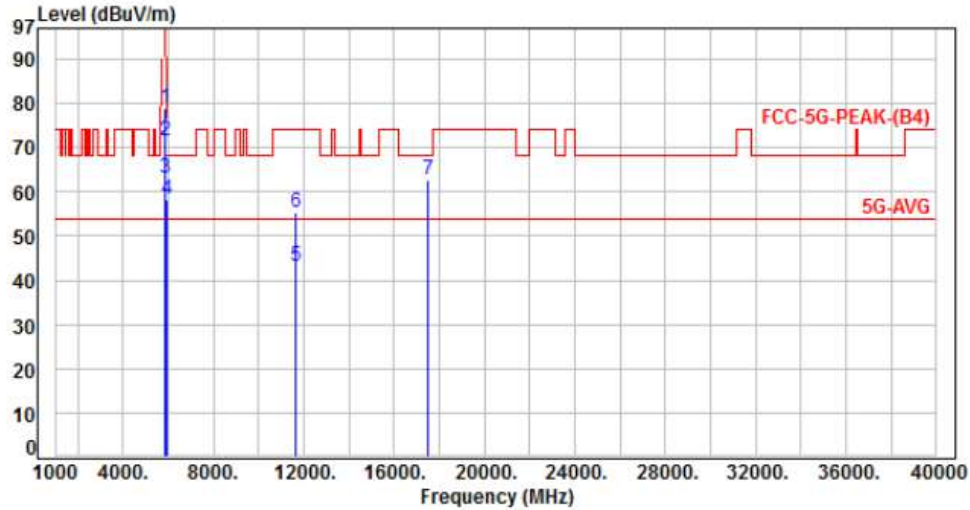


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5850.00	5.21	66.39	71.60	122.20	-50.60	Peak	100	7	P
2	5855.00	5.23	61.85	67.08	110.80	-43.72	Peak	100	7	P
3	5875.00	5.31	53.55	58.86	105.20	-46.34	Peak	100	7	P
4	5925.00	5.49	52.68	58.17	68.20	-10.03	Peak	100	7	P
5	11650.00	13.68	29.46	43.14	54.00	-10.86	Average	100	22	P
6	11650.00	13.68	41.40	55.08	74.00	-18.92	Peak	100	22	P
7	17475.00	20.39	42.37	62.76	68.20	-5.44	Peak	100	49	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		:

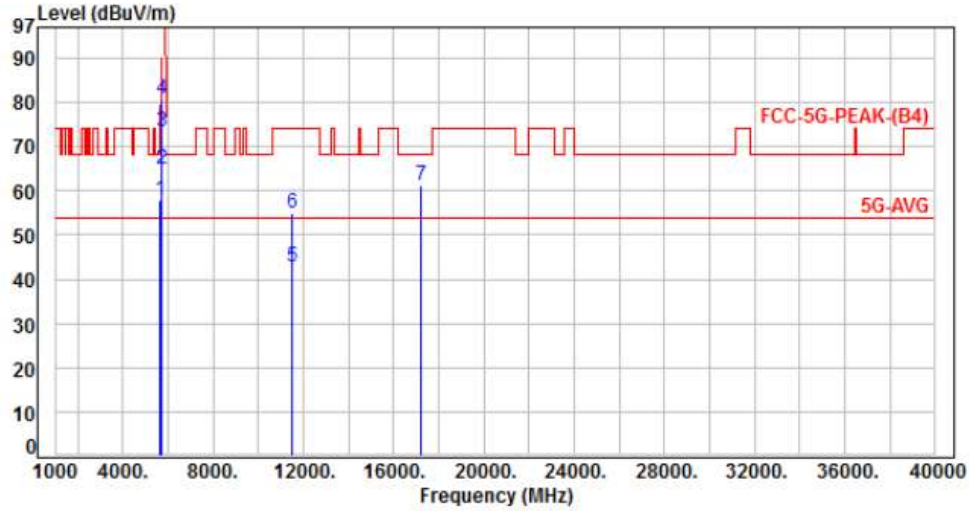


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5850.00	5.21	73.88	79.09	122.20	-43.11	Peak	118	358	P
2	5855.00	5.23	66.36	71.59	110.80	-39.21	Peak	118	358	P
3	5875.00	5.31	57.66	62.97	105.20	-42.23	Peak	118	358	P
4	5925.00	5.49	52.67	58.16	68.20	-10.04	Peak	118	358	P
5	11650.00	13.68	29.30	42.98	54.00	-11.02	Average	100	305	P
6	11650.00	13.68	41.50	55.18	74.00	-18.82	Peak	100	305	P
7	17475.00	20.39	42.43	62.82	68.20	-5.38	Peak	100	339	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		:

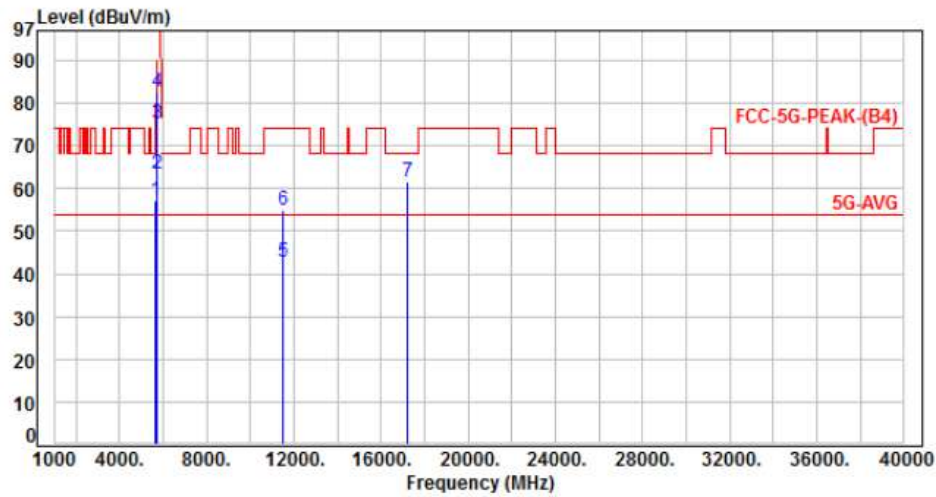


No.	Frequency (MHz)	Factor (dB)	Reading (dBUV)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	5.09	52.78	57.87	68.20	-10.33	Peak	115	4	P
2	5700.00	5.12	59.64	64.76	105.20	-40.44	Peak	115	4	P
3	5720.00	5.13	68.15	73.28	110.80	-37.52	Peak	115	4	P
4	5725.00	5.14	75.78	80.92	122.20	-41.28	Peak	115	4	P
5	11490.00	13.27	29.48	42.75	54.00	-11.25	Average	100	65	P
6	11490.00	13.27	41.50	54.77	74.00	-19.23	Peak	100	65	P
7	17235.00	18.83	42.37	61.20	68.20	-7.00	Peak	100	26	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		:

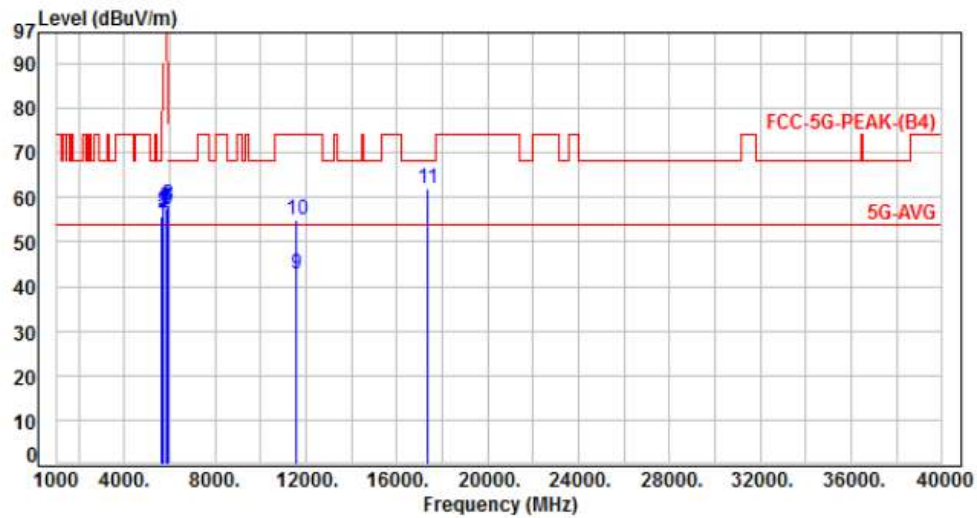


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	5.09	52.05	57.14	68.20	-11.06	Peak	180	358	P
2	5700.00	5.12	58.19	63.31	105.20	-41.89	Peak	180	358	P
3	5720.00	5.13	70.01	75.14	110.80	-35.66	Peak	180	358	P
4	5725.00	5.14	77.42	82.56	122.20	-39.64	Peak	180	358	P
5	11490.00	13.27	29.36	42.63	54.00	-11.37	Average	100	341	P
6	11490.00	13.27	41.56	54.83	74.00	-19.17	Peak	100	341	P
7	17235.00	18.83	42.63	61.46	68.20	-6.74	Peak	100	298	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		:

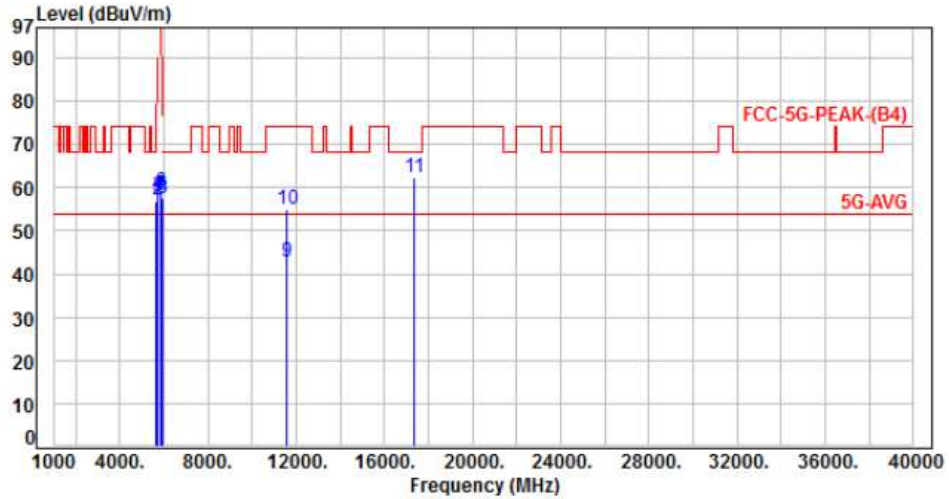


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	5.09	50.66	55.75	68.20	-12.45	Peak	100	16	P
2	5700.00	5.12	51.20	56.32	105.20	-48.88	Peak	100	16	P
3	5720.00	5.13	51.84	56.97	110.80	-53.83	Peak	100	16	P
4	5725.00	5.14	53.12	58.26	122.20	-63.94	Peak	100	16	P
5	5850.00	5.21	51.84	57.05	122.20	-65.15	Peak	100	16	P
6	5855.00	5.23	52.46	57.69	110.80	-53.11	Peak	100	16	P
7	5875.00	5.31	52.20	57.51	105.20	-47.69	Peak	100	16	P
8	5925.00	5.49	52.64	58.13	68.20	-10.07	Peak	100	16	P
9	11570.00	13.50	29.19	42.69	54.00	-11.31	Average	100	80	P
10	11570.00	13.50	41.61	55.11	74.00	-18.89	Peak	100	80	P
11	17355.00	19.47	42.39	61.86	68.20	-6.34	Peak	100	48	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		:

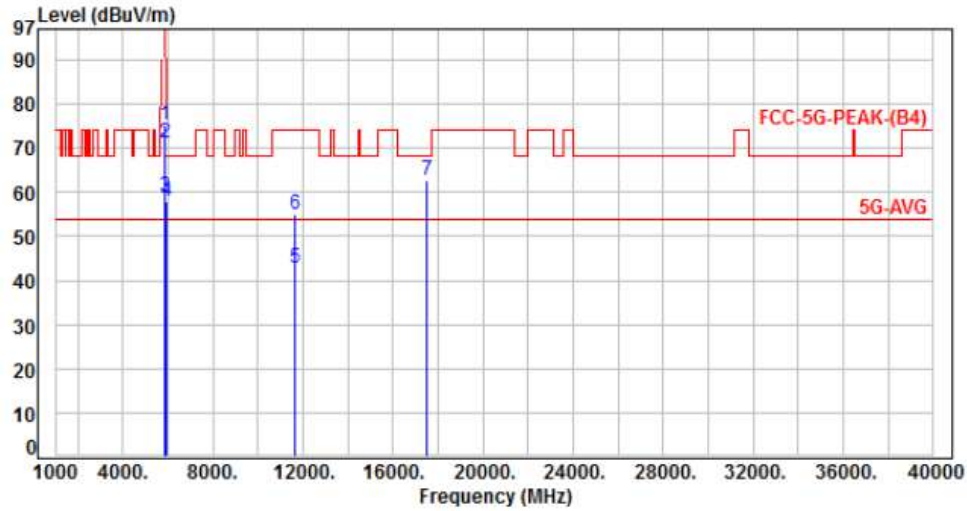


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	5.09	51.83	56.92	68.20	-11.28	Peak	203	345	P
2	5700.00	5.12	52.09	57.21	105.20	-47.99	Peak	203	345	P
3	5720.00	5.13	52.81	57.94	110.80	-52.86	Peak	203	345	P
4	5725.00	5.14	53.25	58.39	122.20	-63.81	Peak	203	345	P
5	5850.00	5.21	53.06	58.27	122.20	-63.93	Peak	203	345	P
6	5855.00	5.23	53.84	59.07	110.80	-51.73	Peak	203	345	P
7	5875.00	5.31	52.75	58.06	105.20	-47.14	Peak	203	345	P
8	5925.00	5.49	52.16	57.65	68.20	-10.55	Peak	203	345	P
9	11570.00	13.50	29.16	42.66	54.00	-11.34	Average	100	329	P
10	11570.00	13.50	41.41	54.91	74.00	-19.09	Peak	100	329	P
11	17355.00	19.47	42.79	62.26	68.20	-5.94	Peak	100	274	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		:

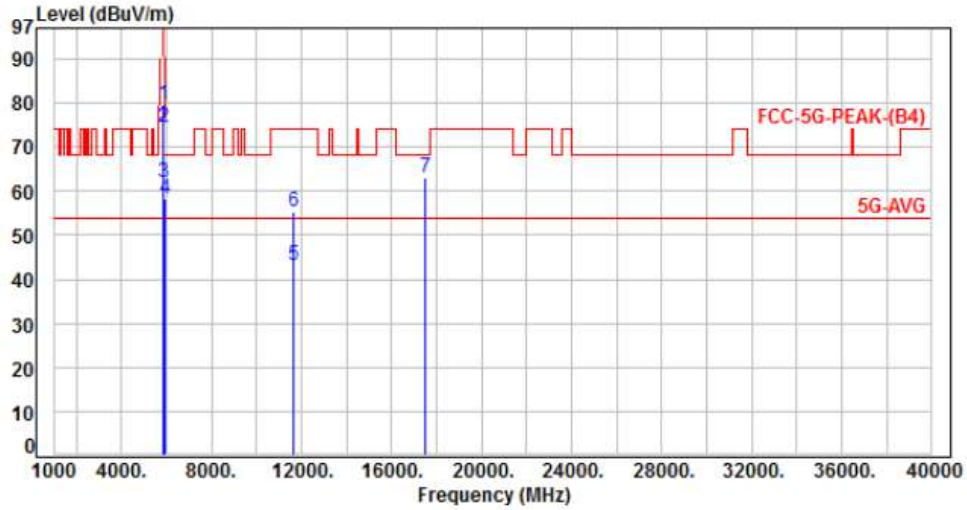


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5850.00	5.21	69.92	75.13	122.20	-47.07	Peak	100	8	P
2	5855.00	5.23	65.88	71.11	110.80	-39.69	Peak	100	8	P
3	5875.00	5.31	53.64	58.95	105.20	-46.25	Peak	100	8	P
4	5925.00	5.49	52.44	57.93	68.20	-10.27	Peak	100	8	P
5	11650.00	13.68	29.10	42.78	54.00	-11.22	Average	100	58	P
6	11650.00	13.68	41.20	54.88	74.00	-19.12	Peak	100	58	P
7	17475.00	20.39	42.17	62.56	68.20	-5.64	Peak	100	37	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		:

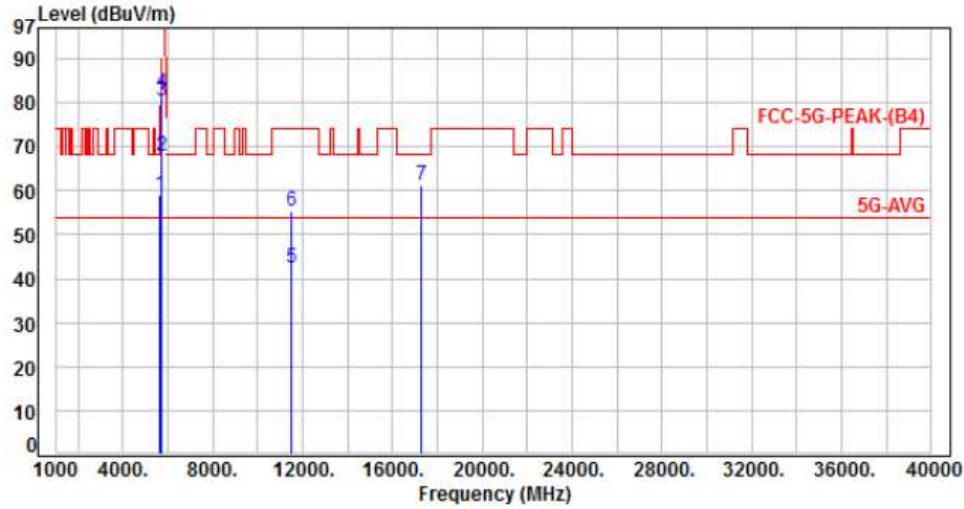


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5850.00	5.21	74.37	79.58	122.20	-42.62	Peak	123	357	P
2	5855.00	5.23	69.34	74.57	110.80	-36.23	Peak	123	357	P
3	5875.00	5.31	56.78	62.09	105.20	-43.11	Peak	123	357	P
4	5925.00	5.49	52.69	58.18	68.20	-10.02	Peak	123	357	P
5	11650.00	13.68	29.44	43.12	54.00	-10.88	Average	100	326	P
6	11650.00	13.68	41.60	55.28	74.00	-18.72	Peak	100	326	P
7	17475.00	20.39	42.73	63.12	68.20	-5.08	Peak	100	277	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		:

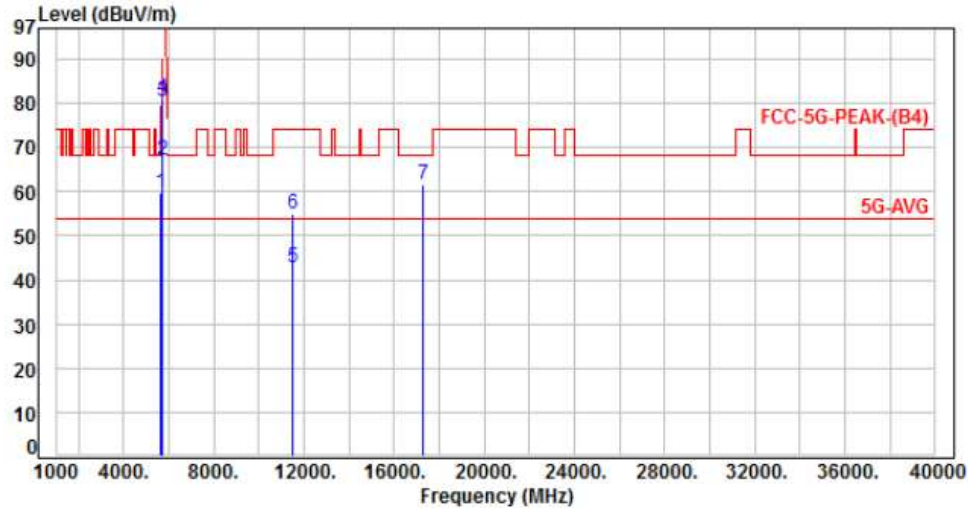


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	5.09	54.09	59.18	68.20	-9.02	Peak	100	10	P
2	5700.00	5.12	62.73	67.85	105.20	-37.35	Peak	100	10	P
3	5720.00	5.13	75.23	80.36	110.80	-30.44	Peak	100	10	P
4	5725.00	5.14	76.99	82.13	122.20	-40.07	Peak	100	10	P
5	11510.00	13.32	29.19	42.51	54.00	-11.49	Average	100	70	P
6	11510.00	13.32	41.84	55.16	74.00	-18.84	Peak	100	70	P
7	17265.00	18.96	42.38	61.34	68.20	-6.86	Peak	100	37	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		:

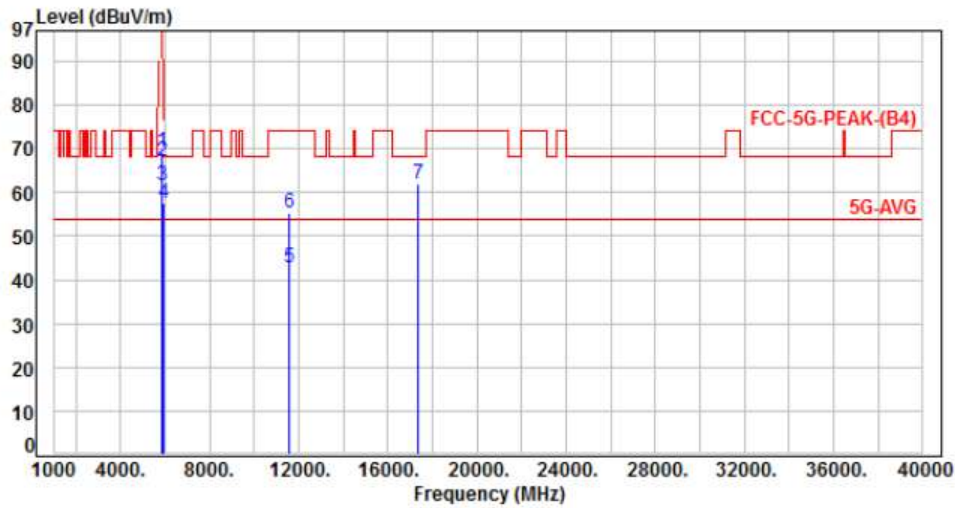


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	5.09	54.59	59.68	68.20	-8.52	Peak	179	355	P
2	5700.00	5.12	62.07	67.19	105.20	-38.01	Peak	179	355	P
3	5720.00	5.13	75.32	80.45	110.80	-30.35	Peak	179	355	P
4	5725.00	5.14	76.18	81.32	122.20	-40.88	Peak	179	355	P
5	11510.00	13.32	29.44	42.76	54.00	-11.24	Average	100	298	P
6	11510.00	13.32	41.77	55.09	74.00	-18.91	Peak	100	298	P
7	17265.00	18.96	42.74	61.70	68.20	-6.50	Peak	100	269	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		

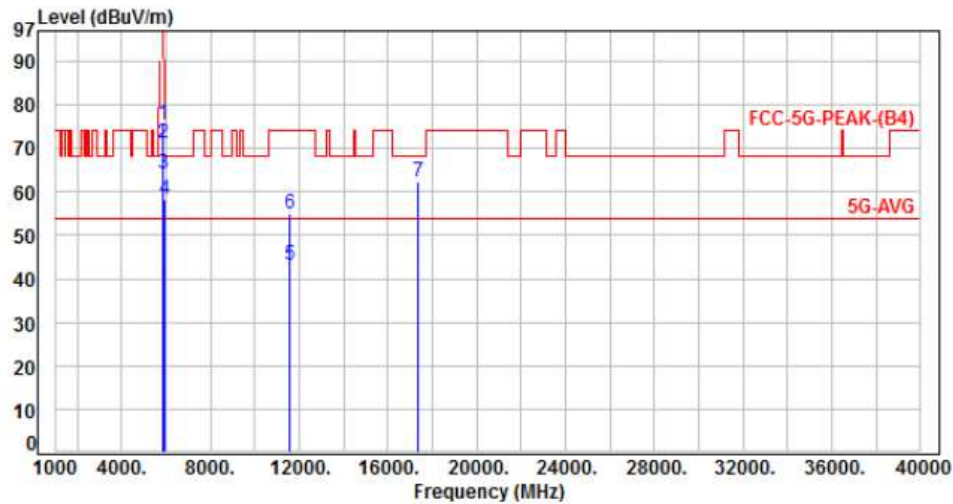


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5850.00	5.21	63.96	69.17	122.20	-53.03	Peak	100	4	P
2	5855.00	5.23	61.90	67.13	110.80	-43.67	Peak	100	4	P
3	5875.00	5.31	56.27	61.58	105.20	-43.62	Peak	100	4	P
4	5925.00	5.49	52.10	57.59	68.20	-10.61	Peak	100	4	P
5	11590.00	13.55	29.35	42.90	54.00	-11.10	Average	100	63	P
6	11590.00	13.55	41.63	55.18	74.00	-18.82	Peak	100	63	P
7	17385.00	19.66	42.47	62.13	68.20	-6.07	Peak	100	31	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		:

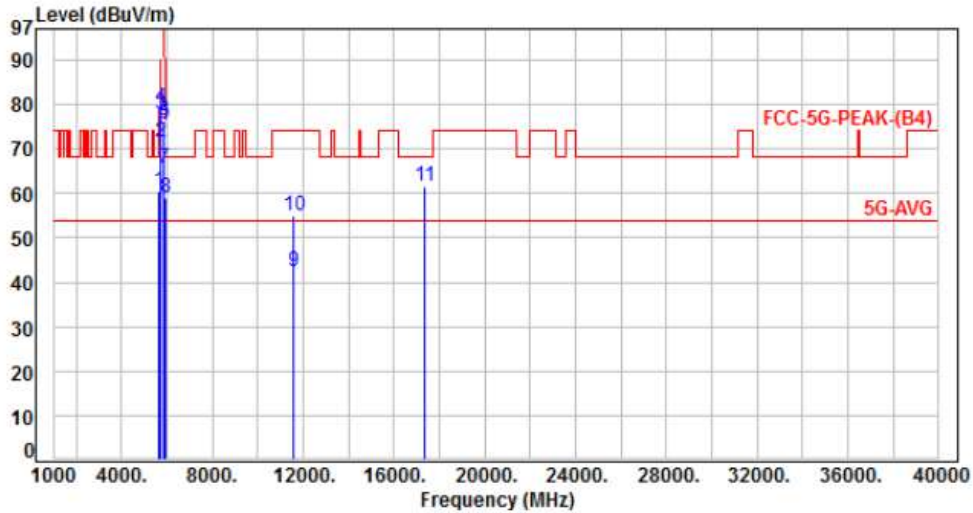


No.	Frequency (MHz)	Factor (dB)	Reading (dBUV)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5850.00	5.21	70.28	75.49	122.20	-46.71	Peak	154	357	P
2	5855.00	5.23	65.78	71.01	110.80	-39.79	Peak	154	357	P
3	5875.00	5.31	58.93	64.24	105.20	-40.96	Peak	154	357	P
4	5925.00	5.49	52.69	58.18	68.20	-10.02	Peak	154	357	P
5	11590.00	13.55	29.42	42.97	54.00	-11.03	Average	100	336	P
6	11590.00	13.55	41.25	54.80	74.00	-19.20	Peak	100	336	P
7	17385.00	19.66	42.83	62.49	68.20	-5.71	Peak	100	278	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		

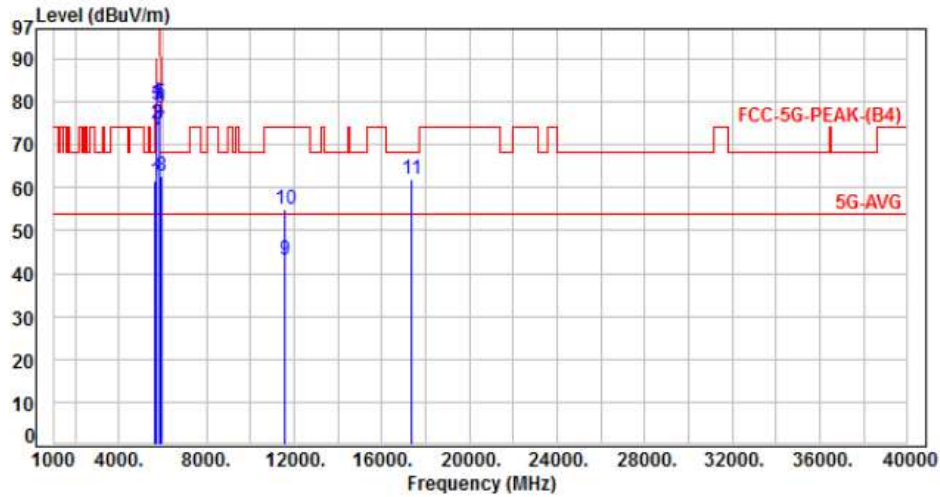


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	5.09	55.49	60.58	68.20	-7.62	Peak	147	3	P
2	5700.00	5.12	66.59	71.71	105.20	-33.49	Peak	147	3	P
3	5720.00	5.13	72.51	77.64	110.80	-33.16	Peak	147	3	P
4	5725.00	5.14	74.21	79.35	122.20	-42.85	Peak	147	3	P
5	5850.00	5.21	70.40	75.61	122.20	-46.59	Peak	147	3	P
6	5855.00	5.23	71.07	76.30	110.80	-34.50	Peak	147	3	P
7	5875.00	5.31	60.26	65.57	105.20	-39.63	Peak	147	3	P
8	5925.00	5.49	53.38	58.87	68.20	-9.33	Peak	147	3	P
9	11550.00	13.44	29.14	42.58	54.00	-11.42	Average	100	43	P
10	11550.00	13.44	41.33	54.77	74.00	-19.23	Peak	100	43	P
11	17325.00	19.27	42.50	61.77	68.20	-6.43	Peak	100	23	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	56.64	61.73	68.20	-6.47	Peak	102	353	P
2	5700.00	5.12	69.79	74.91	105.20	-30.29	Peak	102	353	P
3	5720.00	5.13	74.20	79.33	110.80	-31.47	Peak	102	353	P
4	5725.00	5.14	74.83	79.97	122.20	-42.23	Peak	102	353	P
5	5850.00	5.21	74.34	79.55	122.20	-42.65	Peak	102	353	P
6	5855.00	5.23	73.17	78.40	110.80	-32.40	Peak	102	353	P
7	5875.00	5.31	68.08	73.39	105.20	-31.81	Peak	102	353	P
8	5925.00	5.49	57.25	62.74	68.20	-5.46	Peak	102	353	P
9	11550.00	13.44	29.56	43.00	54.00	-11.00	Average	100	310	P
10	11550.00	13.44	41.51	54.95	74.00	-19.05	Peak	100	310	P
11	17325.00	19.27	42.86	62.13	68.20	-6.07	Peak	100	277	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

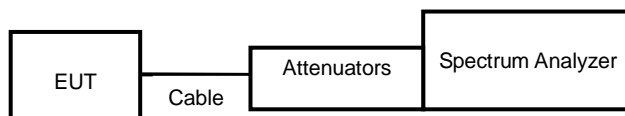
7.1. Test Limit

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	1.39	1.50	92.87%
802.11n HT20	1.31	1.41	92.89%
802.11n HT40	0.65	0.75	86.59%
802.11ac VHT20	1.32	1.42	92.96%
802.11ac VHT40	0.66	0.76	86.75%
802.11ac VHT80	0.32	0.43	75.92%

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

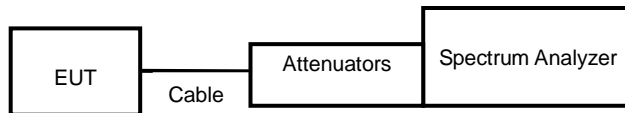
FCC §15.407

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	15.78	0.50
11a	157	5785	15.81	0.50
11a	165	5825	15.81	0.50
11ac VHT20	149	5745	17.19	0.50
11ac VHT20	157	5785	16.65	0.50
11ac VHT20	165	5825	16.92	0.50
11ac VHT40	142	5710	35.82	0.50
11ac VHT40	151	5755	36.00	0.50
11ac VHT40	159	5795	75.24	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	2.99
11n HT20	MCS 0	5720	3.51
11n HT40	MCS 0	5710	3.15
11ac VHT20	NSS1-MCS0	5720	3.57
11ac VHT40	NSS1-MCS0	5710	3.20
11ac VHT80	NSS1-MCS0	5690	2.68

**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	20.74
11a	157	5785	21.62
11a	165	5825	22.47
11ac VHT20	149	5745	19.70
11ac VHT20	157	5785	20.20
11ac VHT20	165	5825	21.41
11ac VHT40	142	5710	40.15
11ac VHT40	151	5755	41.90
11ac VHT40	159	5795	82.70

UNII Emission Bandwidth Result (Extends across 5725MHz band)			
Modulation Type	Data Rate / MCS	Frequency (MHz)	99% Bandwidth(MHz)
			ANT A
11a	6 Mbps	5720	12.48
11n HT20	MCS 0	5720	12.15
11n HT40	MCS 0	5710	28.65
11ac VHT20	NSS1-MCS0	5720	12.47
11ac VHT40	NSS1-MCS0	5710	29.20
11ac VHT80	NSS1-MCS0	5690	61.09



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

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



CH157



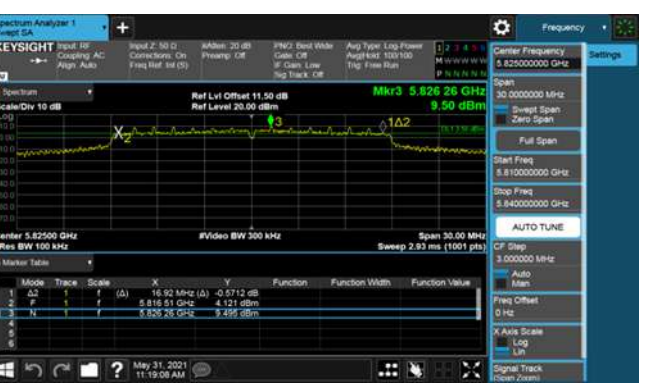
CH157



CH165



CH165





6dB Bandwidth
ANT A
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



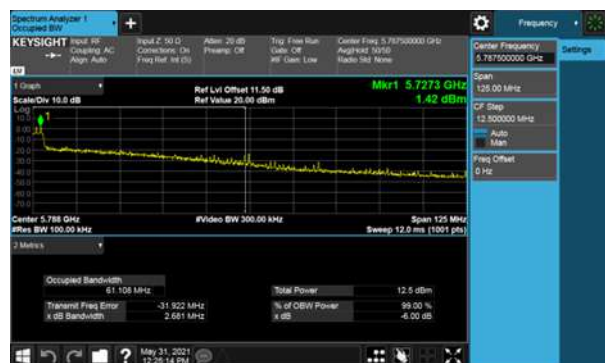
Modulation Type: 802.11n HT20 (6.5Mbps)
CH144

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
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% 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

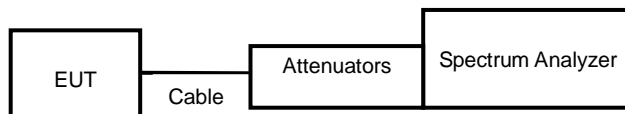
9.1. Test Limit

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	26.92
11a	40	5200	33.84
11a	48	5240	33.64
11ac VHT20	36	5180	29.36
11ac VHT20	40	5200	35.07
11ac VHT20	48	5240	35.11
11ac VHT40	38	5190	61.36
11ac VHT40	46	5230	74.44
11ac VHT80	42	5210	88.22

In the 5.3G Band

Mode	Channel	Frequency (MHz)	26dB Bandwidth(MHz)
			ANT A
11a	52	5260	33.91
11a	60	5300	32.91
11a	64	5320	33.77
11ac VHT20	52	5260	34.28
11ac VHT20	60	5300	34.26
11ac VHT20	64	5320	37.63
11ac VHT40	54	5270	81.77
11ac VHT40	62	5310	47.11
11ac VHT80	58	5290	82.58

In the 5.5G Band

Mode	Channel	Frequency (MHz)	26dB Bandwidth(MHz)
			ANT A
11a	100	5500	21.68
11a	116	5580	34.25
11a	140	5700	34.18
11ac VHT20	100	5500	21.12
11ac VHT20	116	5580	37.41
11ac VHT20	140	5700	28.02
11ac VHT40	102	5510	41.47
11ac VHT40	110	5550	85.85
11ac VHT40	134	5670	87.25
11ac VHT80	106	5530	84.31
11ac VHT80	122	5610	149.3



UNII Emission Bandwidth Result (Within 5470-5725MHz band)			
Modulation Type	Data Rate / MCS	Frequency (MHz)	26dB Bandwidth(MHz)
			ANT A
11a	6 Mbps	5720	21.92
11n HT20	MCS 0	5720	21.17
11n HT40	MCS 0	5710	48.98
11ac VHT20	NSS1-MCS0	5720	21.29
11ac VHT40	NSS1-MCS0	5710	53.69
11ac VHT80	NSS1-MCS0	5690	105.10

**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	17.22
11a	40	5200	18.29
11a	48	5240	18.20
11ac VHT20	36	5180	18.23
11ac VHT20	40	5200	18.87
11ac VHT20	48	5240	18.70
11ac VHT40	38	5190	36.80
11ac VHT40	46	5230	37.49
11ac VHT80	42	5210	75.52

In the 5.3G Band

Modulation Type	Channel	Frequency (MHz)	99% Bandwidth(MHz)
			ANT A
11a	52	5260	18.41
11a	60	5300	18.05
11a	64	5320	18.17
11ac VHT20	52	5260	18.74
11ac VHT20	60	5300	18.73
11ac VHT20	64	5320	18.92
11ac VHT40	54	5270	37.72
11ac VHT40	62	5310	36.66
11ac VHT80	58	5290	75.51

In the 5.5G Band

Modulation Type	Channel	Frequency (MHz)	99% Bandwidth(MHz)
			ANT A
11a	100	5500	16.99
11a	116	5580	18.97
11a	140	5700	17.66
11ac VHT20	100	5500	17.66
11ac VHT20	116	5580	18.59
11ac VHT20	140	5700	18.16
11ac VHT40	102	5510	36.60
11ac VHT40	110	5550	37.34
11ac VHT40	134	5670	37.90
11ac VHT80	106	5530	75.54
11ac VHT80	122	5610	77.03



UNII Emission Bandwidth Result (Within 5470-5725MHz band)			
Modulation Type	Data Rate / MCS	Frequency (MHz)	99% Bandwidth(MHz)
			ANT A
11a	6 Mbps	5720	16.16
11n HT20	MCS 0	5720	14.77
11n HT40	MCS 0	5710	33.64
11ac VHT20	NSS1-MCS0	5720	14.95
11ac VHT40	NSS1-MCS0	5710	33.87
11ac VHT80	NSS1-MCS0	5690	72.88



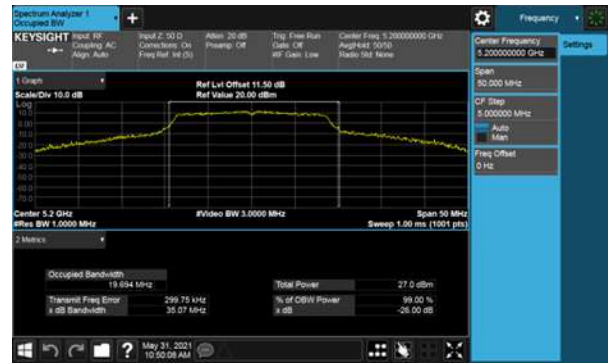
26dB Bandwidth Band 1
Modulation Type: 802.11a (6Mbps)
CH36

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





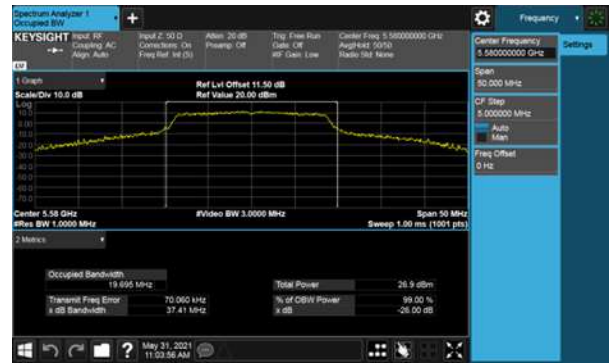
26dB Bandwidth Band 3
Modulation Type: 802.11a (6Mbps)
CH100

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

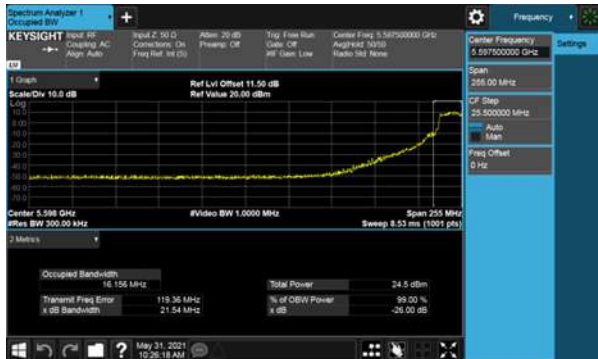




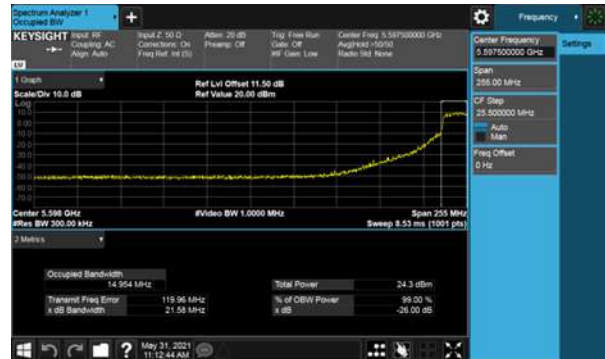
99% Bandwidth

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.

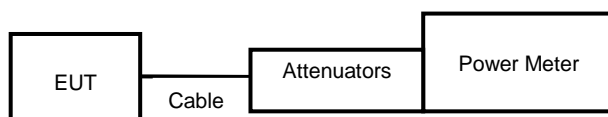


Frequency Band	Limit
<input checked="" type="checkbox"/> 5.25-5.35 GHz	The maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW (24dBm) or 11 dBm 10 log B, where B is the 26 dB emission bandwidth in megahertz. If transmitting antennas of directional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

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	67	36	5180	17.28	17.28	53.456	24.00
11a	6 Mbps	73	40	5200	18.51	18.51	70.958	24.00
11a	6 Mbps	73	48	5240	18.62	18.62	72.778	24.00
11n HT20	MCS 0	68	36	5180	17.15	17.15	51.880	24.00
11n HT20	MCS 0	74	40	5200	18.74	18.74	74.817	24.00
11n HT20	MCS 0	73	48	5240	18.63	18.63	72.946	24.00
11n HT40	MCS 0	64	38	5190	16.65	16.65	46.238	24.00
11n HT40	MCS 0	72	46	5230	18.38	18.38	68.865	24.00
11ac VHT20	NSS1-MCS0	68	36	5180	17.19	17.19	52.360	24.00
11ac VHT20	NSS1-MCS0	74	40	5200	18.78	18.78	75.509	24.00
11ac VHT20	NSS1-MCS0	73	48	5240	18.65	18.65	73.282	24.00
11ac VHT40	NSS1-MCS0	64	38	5190	16.67	16.67	46.452	24.00
11ac VHT40	NSS1-MCS0	72	46	5230	18.40	18.40	69.183	24.00
11ac VHT80	NSS1-MCS0	59	42	5210	14.53	14.53	28.379	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)
11a	6 Mbps	72	52	5260	18.61	18.61	72.611	24.00
11a	6 Mbps	72	60	5300	18.85	18.85	76.736	24.00
11a	6 Mbps	72	64	5320	18.83	18.83	76.384	24.00
11n HT20	MCS 0	73	52	5260	18.81	18.81	76.033	24.00
11n HT20	MCS 0	73	60	5300	18.73	18.73	74.645	24.00
11n HT20	MCS 0	73	64	5320	18.78	18.78	75.509	24.00
11n HT40	MCS 0	72	54	5270	18.56	18.56	71.779	24.00
11n HT40	MCS 0	57	62	5310	14.63	14.63	29.040	24.00
11ac VHT20	NSS1-MCS0	73	52	5260	18.83	18.83	76.384	24.00
11ac VHT20	NSS1-MCS0	73	60	5300	18.76	18.76	75.162	24.00
11ac VHT20	NSS1-MCS0	73	64	5320	18.82	18.82	76.208	24.00
11ac VHT40	NSS1-MCS0	72	54	5270	18.59	18.59	72.277	24.00
11ac VHT40	NSS1-MCS0	57	62	5310	14.67	14.67	29.309	24.00
11ac VHT80	NSS1-MCS0	52	58	5290	13.18	13.18	20.797	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)
11a	6 Mbps	55	100	5500	14.44	14.44	27.797	24.00
11a	6 Mbps	74	116	5580	18.71	18.71	74.302	24.00
11a	6 Mbps	71	140	5700	17.96	17.96	62.517	24.00
11n HT20	MCS 0	64	100	5500	16.18	16.18	41.495	24.00
11n HT20	MCS 0	74	116	5580	18.45	18.45	69.984	24.00
11n HT20	MCS 0	66	140	5700	16.31	16.31	42.756	24.00
11n HT40	MCS 0	58	102	5510	14.76	14.76	29.923	24.00
11n HT40	MCS 0	71	110	5550	18.35	18.35	68.391	24.00
11n HT40	MCS 0	72	134	5670	18.01	18.01	63.241	24.00
11ac VHT20	NSS1-MCS0	64	100	5500	16.22	16.22	41.879	24.00
11ac VHT20	NSS1-MCS0	74	116	5580	18.47	18.47	70.307	24.00
11ac VHT20	NSS1-MCS0	66	140	5700	16.32	16.32	42.855	24.00
11ac VHT40	NSS1-MCS0	58	102	5510	14.81	14.81	30.269	24.00
11ac VHT40	NSS1-MCS0	71	110	5550	18.38	18.38	68.865	24.00
11ac VHT40	NSS1-MCS0	72	134	5670	18.04	18.04	63.680	24.00
11ac VHT80	NSS1-MCS0	60	106	5530	15.42	15.42	34.834	24.00
11ac VHT80	NSS1-MCS0	74	122	5610	18.68	18.68	73.790	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)
11a	6 Mbps	76	149	5745	18.55	18.55	71.614	30.00
11a	6 Mbps	78	157	5785	18.73	18.73	74.645	30.00
11a	6 Mbps	79	165	5825	18.69	18.69	73.961	30.00
11n HT20	MCS 0	75	149	5745	18.32	18.32	67.920	30.00
11n HT20	MCS 0	77	157	5785	18.45	18.45	69.984	30.00
11n HT20	MCS 0	79	165	5825	18.69	18.69	73.961	30.00
11n HT40	MCS 0	74	151	5755	18.31	18.31	67.764	30.00
11n HT40	MCS 0	76	159	5795	18.67	18.67	73.621	30.00
11ac VHT20	NSS1-MCS0	75	149	5745	18.34	18.34	68.234	30.00
11ac VHT20	NSS1-MCS0	77	157	5785	18.48	18.48	70.469	30.00
11ac VHT20	NSS1-MCS0	79	165	5825	18.71	18.71	74.302	30.00
11ac VHT40	NSS1-MCS0	74	151	5755	18.35	18.35	68.391	30.00
11ac VHT40	NSS1-MCS0	76	159	5795	18.71	18.71	74.302	30.00
11ac VHT80	NSS1-MCS0	76	155	5775	18.36	18.36	68.549	30.00

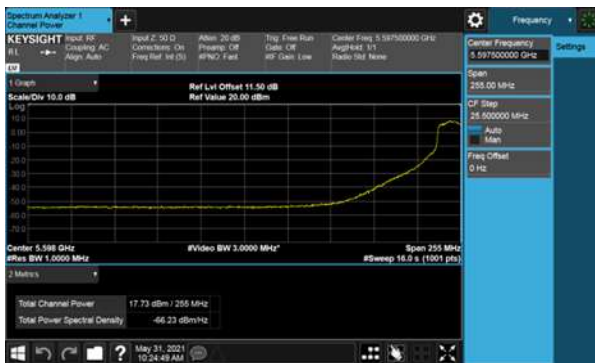


FCC Maximum Conducted Output Power (Within 5470-5725MHz band) RF Output Power(dBm)									
Setting	Modulation Type	Data Rate	Frequency (MHz)	W/O Duty Factor Measured value of each antenna port (dBm)	W/O duty factor Total power (dBm)	Duty Factor (dB)	With duty factor Total power (mW)	With duty factor Total power (dBm)	FCC Limit (dBm)
				ANT A					
75	11a	6M	5720	17.73	17.73	0.32	63.826	18.05	24.00
74	11n HT20	MCS0	5720	17.23	17.23	0.32	56.885	17.55	24.00
72	11n HT40	MCS0	5710	17.82	17.82	0.63	69.984	18.45	24.00
74	11ac VHT20	NSS1-MCS0	5720	17.43	17.43	0.32	59.566	17.75	24.00
72	11ac VHT40	NSS1-MCS0	5710	17.85	17.85	0.62	70.307	18.47	24.00
73	11ac VHT80	NSS1-MCS0	5690	17.45	17.45	1.20	73.282	18.65	24.00

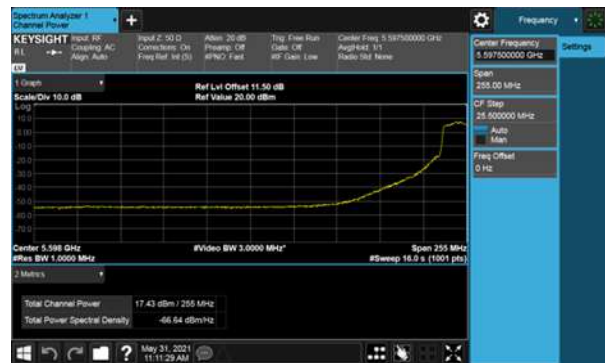
FCC Maximum Conducted Output Power (Extends across 5725MHz band) RF Output Power(dBm)									
Setting	Modulation Type	Data Rate	Frequency (MHz)	W/O Duty Factor Measured value of each antenna port (dBm)	W/O duty factor Total power (dBm)	Duty Factor (dB)	With duty factor Total power (mW)	With duty factor Total power (dBm)	FCC Limit (dBm)
				ANT A					
75	11a	6M	5720	10.62	10.62	0.32	12.417	10.94	30.00
74	11n HT20	MCS0	5720	10.44	10.44	0.32	11.912	10.76	30.00
72	11n HT40	MCS0	5710	6.39	6.39	0.63	5.035	7.02	30.00
74	11ac VHT20	NSS1-MCS0	5720	10.52	10.52	0.32	12.134	10.84	30.00
72	11ac VHT40	NSS1-MCS0	5710	6.61	6.61	0.62	5.284	7.23	30.00
73	11ac VHT80	NSS1-MCS0	5690	2.35	2.35	1.20	2.265	3.55	30.00



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



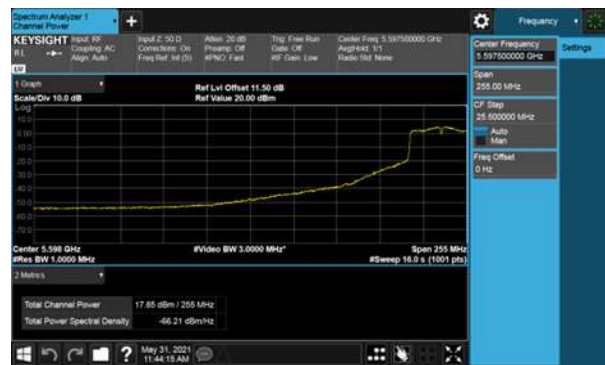
802.11ac VHT20 (6.5Mbps)
CH144



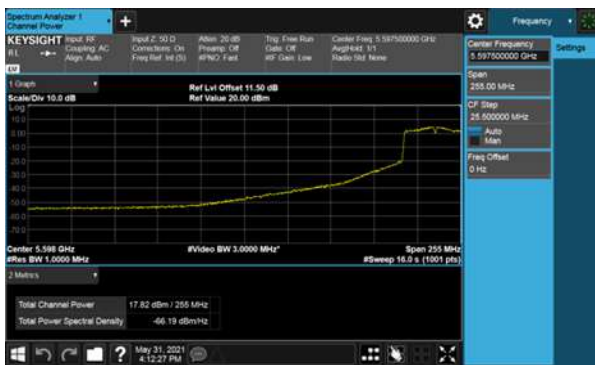
Modulation Type: 802.11n HT20 (6.5Mbps)
CH144



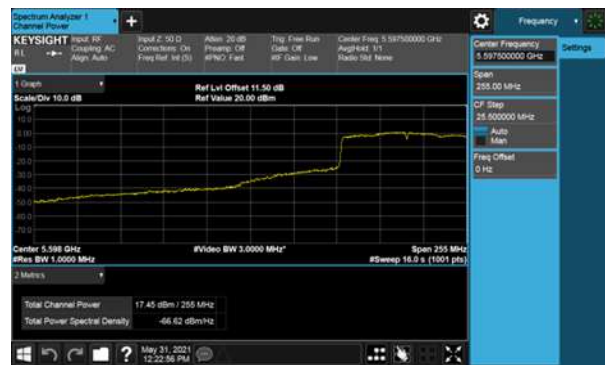
802.11ac VHT40 (13.5Mbps)
CH142



Modulation Type: 802.11n HT40 (13.5Mbps)
CH142



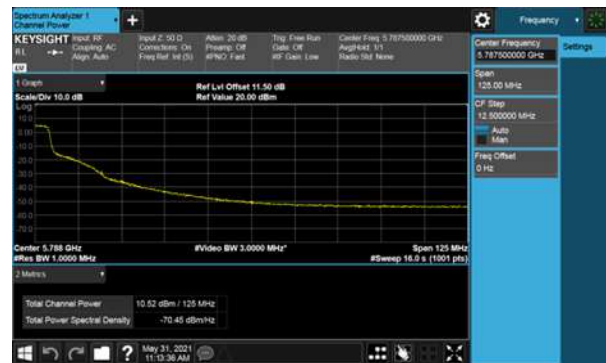
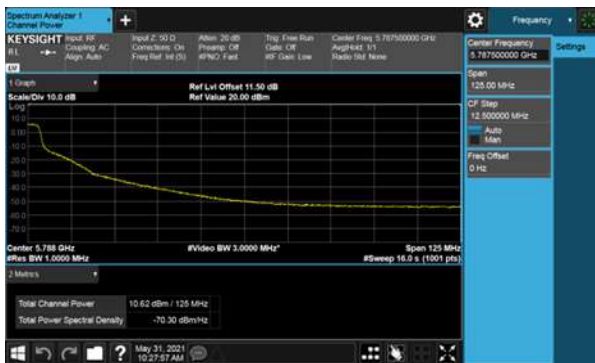
Modulation Type: 802.11ac VHT80 (29.3Mbps)
CH138





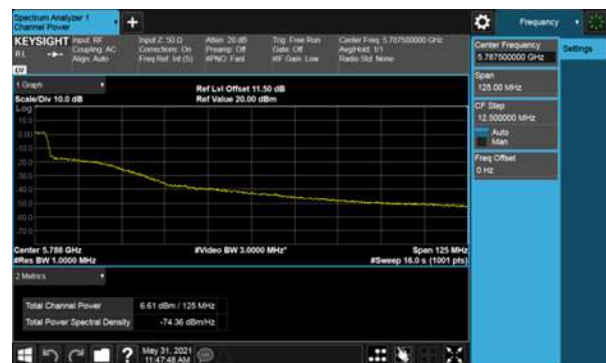
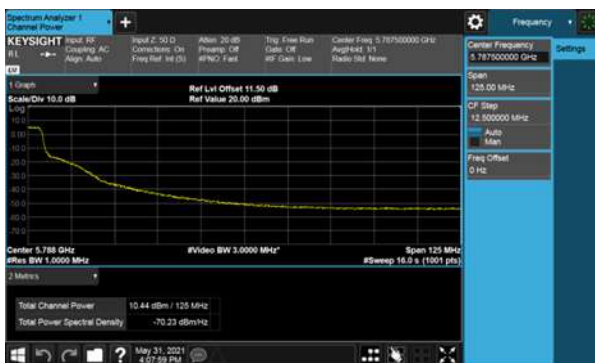
Extends across 5725MHz band, Straddle Channel
Modulation Type: 802.11a (6Mbps)
CH144

802.11ac VHT20 (6.5Mbps)
CH144



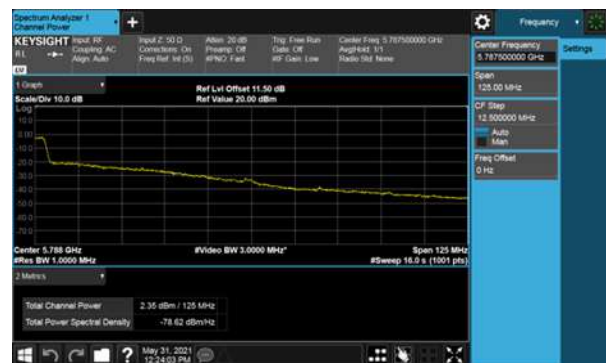
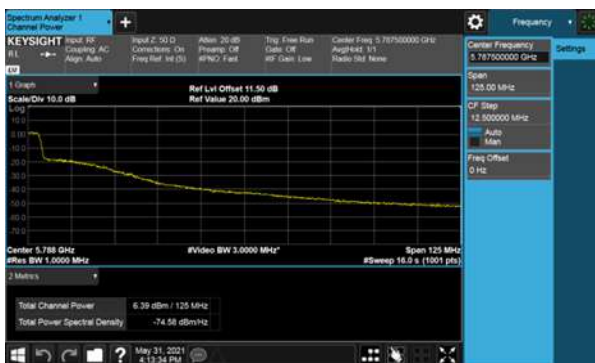
Modulation Type: 802.11n HT20 (6.5Mbps)
CH144

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

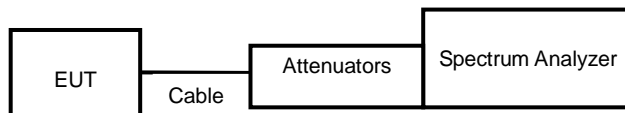
PSD:

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	7.59	7.59	0.32	7.91	11.00
11a	40	5200	8.87	8.87	0.32	9.19	11.00
11a	48	5240	8.88	8.88	0.32	9.20	11.00
11ac VHT20	36	5180	7.04	7.04	0.32	7.36	11.00
11ac VHT20	40	5200	8.68	8.68	0.32	9.00	11.00
11ac VHT20	48	5240	8.26	8.26	0.32	8.58	11.00
11ac VHT40	38	5190	2.91	2.91	0.62	3.53	11.00
11ac VHT40	46	5230	5.20	5.20	0.62	5.82	11.00
11ac VHT80	42	5210	-1.87	-1.87	1.20	-0.67	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	8.80	8.80	0.32	9.12	11.00
11a	60	5300	8.90	8.90	0.32	9.22	11.00
11a	64	5320	9.06	9.06	0.32	9.38	11.00
11ac VHT20	52	5260	8.42	8.42	0.32	8.74	11.00
11ac VHT20	60	5300	8.72	8.72	0.32	9.04	11.00
11ac VHT20	64	5320	8.71	8.71	0.32	9.03	11.00
11ac VHT40	54	5270	5.24	5.24	0.62	5.86	11.00
11ac VHT40	62	5310	1.33	1.33	0.62	1.95	11.00
11ac VHT80	58	5290	-3.64	-3.64	1.20	-2.44	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	4.88	4.88	0.32	5.20	11.00
11a	116	5580	9.22	9.22	0.32	9.54	11.00
11a	140	5700	7.58	7.58	0.32	7.90	11.00
11a	144	5720	8.32	8.32	0.32	8.64	11.00
11ac VHT20	100	5500	6.28	6.28	0.32	6.60	11.00
11ac VHT20	116	5580	8.65	8.65	0.32	8.97	11.00
11ac VHT20	140	5700	5.65	5.65	0.32	5.97	11.00
11ac VHT20	144	5720	7.79	7.79	0.62	8.41	11.00
11ac VHT40	102	5510	1.33	1.33	0.62	1.95	11.00
11ac VHT40	110	5550	5.04	5.04	0.62	5.66	11.00
11ac VHT40	134	5670	4.84	4.84	0.62	5.46	11.00
11ac VHT40	142	5710	4.53	4.53	0.62	5.15	11.00
11ac VHT80	106	5530	-1.70	-1.70	1.20	-0.50	11.00
11ac VHT80	122	5610	2.14	2.14	1.20	3.34	11.00
11ac VHT80	138	5690	1.21	1.21	1.20	2.41	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)
			ANT A				
11a	149	5745	8.45	8.45	0.32	-3.01	5.75
11a	157	5785	8.37	8.37	0.32	-3.01	5.68
11a	165	5825	8.69	8.69	0.32	-3.01	6.00
11ac VHT20	149	5745	8.00	8.00	0.32	-3.01	5.31
11ac VHT20	157	5785	7.89	7.89	0.32	-3.01	5.20
11ac VHT20	165	5825	8.45	8.45	0.32	-3.01	5.76
11ac VHT40	151	5755	4.58	4.58	0.62	-3.01	2.19
11ac VHT40	159	5795	4.81	4.81	0.62	-3.01	2.42
11ac VHT80	155	5775	1.18	1.18	1.20	-3.01	-0.63



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





5.3G, Band 2
Modulation Type: 802.11a (6Mbps)
CH52

802.11ac VHT20 (6.5Mbps)
CH52



CH60

CH60



CH64

CH64





5.3G, Band 2

Modulation Type: 802.11ac VHT40 (13.5Mbps)
CH54

Modulation Type: 802.11ac VHT80 (29.3Mbps)
CH58



CH62





5.5G, Band 3
Modulation Type: 802.11a (6Mbps)
CH100

802.11ac VHT20 (6.5Mbps)
CH100



CH116

CH116



CH140

CH140





5.5G, Band 3

Modulation Type: 802.11ac VHT40 (13.5Mbps)
CH102

Modulation Type: 802.11ac VHT80 (29.3Mbps)
CH105



CH110



CH122



CH134





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



Modulation Type: 802.11ac VHT40 (13.5Mbps)
CH142



Modulation Type: 802.11ac VHT20 (6.5Mbps)
CH144



Modulation Type: 802.11ac VHT80 (29.3Mbps)
CH138





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

