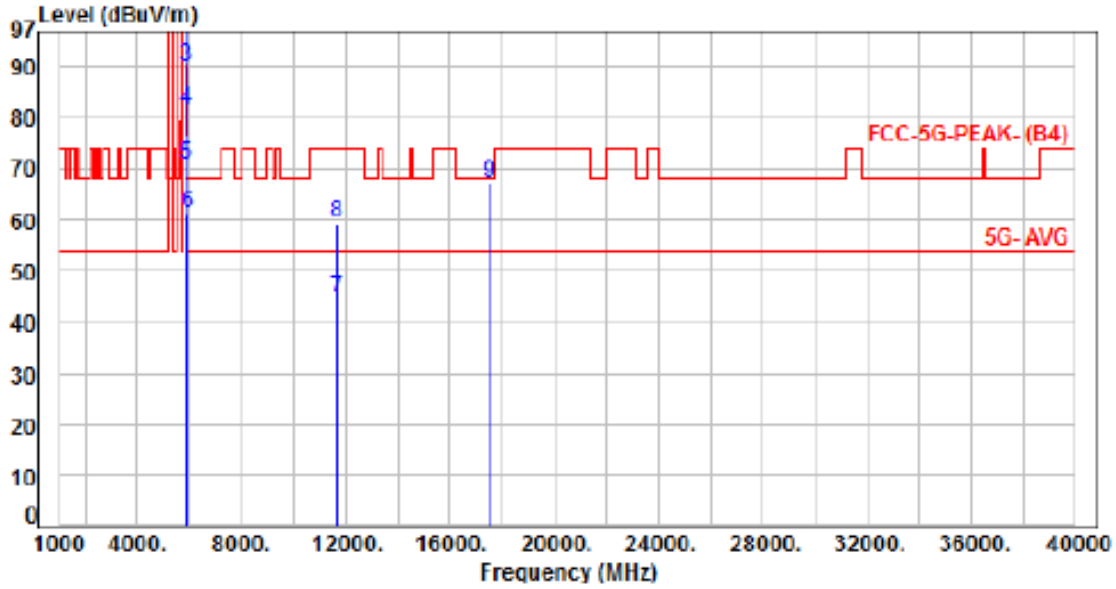




Beamforming

Power	: AC 120V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 6, Band 4, CH165		:



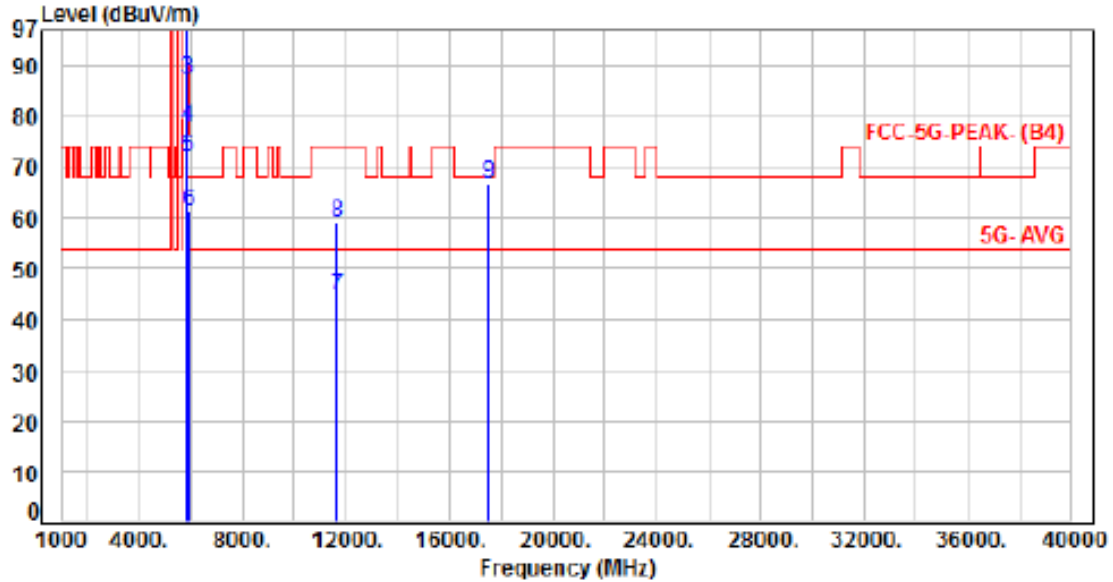
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5825.00	6.84	103.49	110.33	200.00	-89.67	Average	100	140	P
2	5825.00	6.84	116.97	123.81	200.00	-76.19	Peak	100	140	P
3	5850.00	6.86	82.99	89.85	122.20	-32.35	Peak	100	140	P
4	5855.00	6.91	74.45	81.36	110.80	-29.44	Peak	100	140	P
5	5875.00	7.08	63.64	70.72	105.20	-34.48	Peak	100	140	P
6	5925.00	7.32	53.82	61.14	68.20	-7.06	Peak	100	140	P
7	11650.00	15.64	28.99	44.63	54.00	-9.37	Average	100	64	P
8	11650.00	15.64	43.66	59.30	74.00	-14.70	Peak	100	64	P
9	17475.00	23.17	43.89	67.06	68.20	-1.14	Peak	100	144	P

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



Beamforming

Power	: AC 120V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 6, Band 4, CH165		:



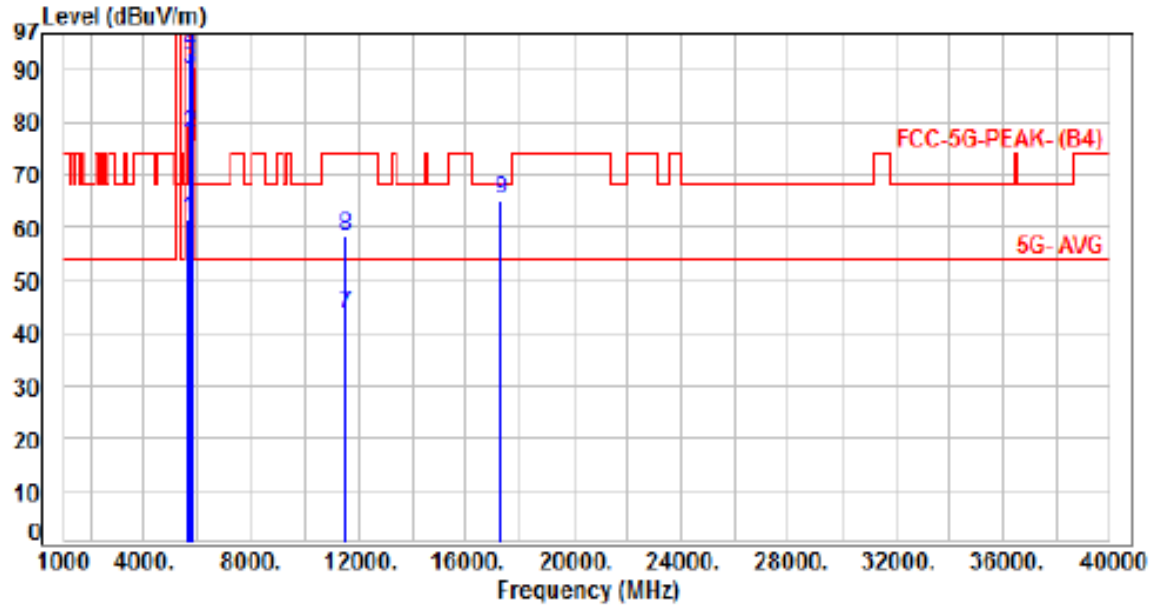
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5825.00	6.84	107.00	113.84	200.00	-86.16	Average	125	119	P
2	5825.00	6.84	119.02	125.86	200.00	-74.14	Peak	125	119	P
3	5850.00	6.86	80.52	87.38	122.20	-34.82	Peak	125	119	P
4	5855.00	6.91	70.97	77.88	110.80	-32.92	Peak	125	119	P
5	5875.00	7.08	64.98	72.06	105.20	-33.14	Peak	125	119	P
6	5925.00	7.32	53.87	61.19	68.20	-7.01	Peak	125	119	P
7	11650.00	15.64	28.92	44.56	54.00	-9.44	Average	100	79	P
8	11650.00	15.64	43.25	58.89	74.00	-15.11	Peak	100	79	P
9	17475.00	23.17	43.60	66.77	68.20	-1.43	Peak	100	104	P

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



Beamforming

Power	: AC 120V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 7, 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	6.62	54.92	61.54	68.20	-6.66	Peak	109	141	P
2	5700.00	6.86	70.98	77.84	105.20	-27.36	Peak	109	141	P
3	5720.00	6.83	83.31	90.14	110.80	-20.66	Peak	109	141	P
4	5725.00	6.83	86.65	93.48	122.20	-28.72	Peak	109	141	P
5	5755.00	6.79	100.14	106.93	200.00	-93.07	Average	109	141	P
6	5755.00	6.79	113.15	119.94	200.00	-80.06	Peak	109	141	P
7	11510.00	15.24	28.35	43.59	54.00	-10.41	Average	100	59	P
8	11510.00	15.24	43.00	58.32	74.00	-15.68	Peak	100	59	P
9	17265.00	21.77	43.51	65.28	68.20	-2.92	Peak	100	141	P

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



Beamforming

Power	: AC 120V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 7, Band 4, CH151		:



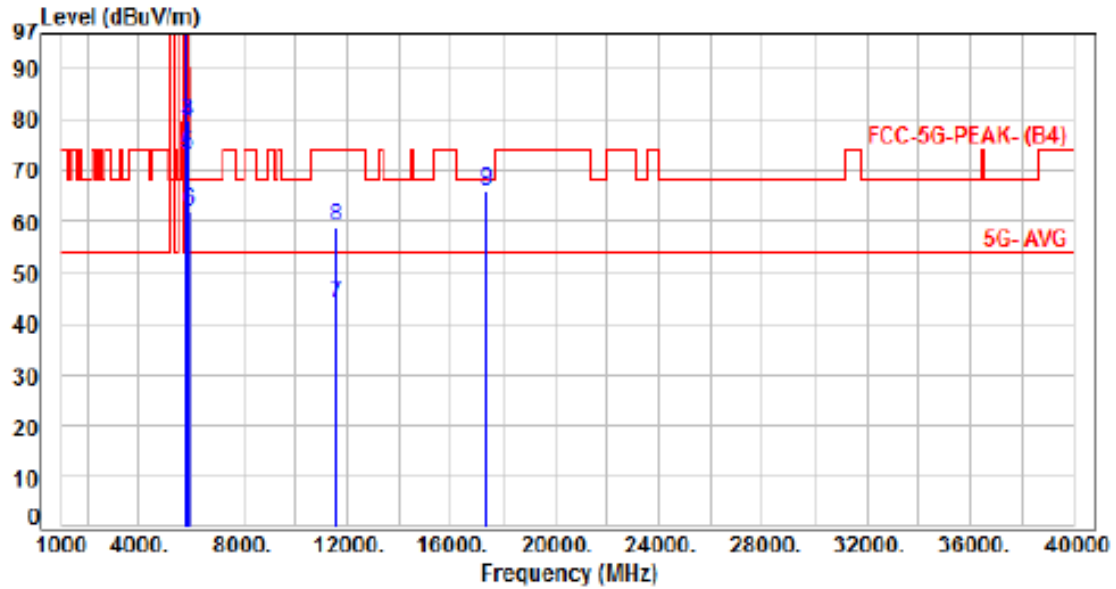
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	6.62	54.46	61.08	68.20	-7.12	Peak	148	69	P
2	5700.00	6.85	68.44	75.30	105.20	-29.90	Peak	148	69	P
3	5720.00	6.83	79.30	86.13	110.80	-24.67	Peak	148	69	P
4	5725.00	6.83	82.94	89.77	122.20	-32.43	Peak	148	69	P
5	5755.00	6.79	102.14	108.93	200.00	-91.07	Average	148	69	P
6	5755.00	6.79	114.55	121.34	200.00	-78.66	Peak	148	69	P
7	11510.00	15.24	28.59	43.83	54.00	-10.17	Average	100	81	P
8	11510.00	15.24	43.19	58.43	74.00	-15.57	Peak	100	81	P
9	17265.00	21.77	43.53	65.30	68.20	-2.90	Peak	100	102	P

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



Beamforming

Power	: AC 120V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 7, Band 4, CH159		



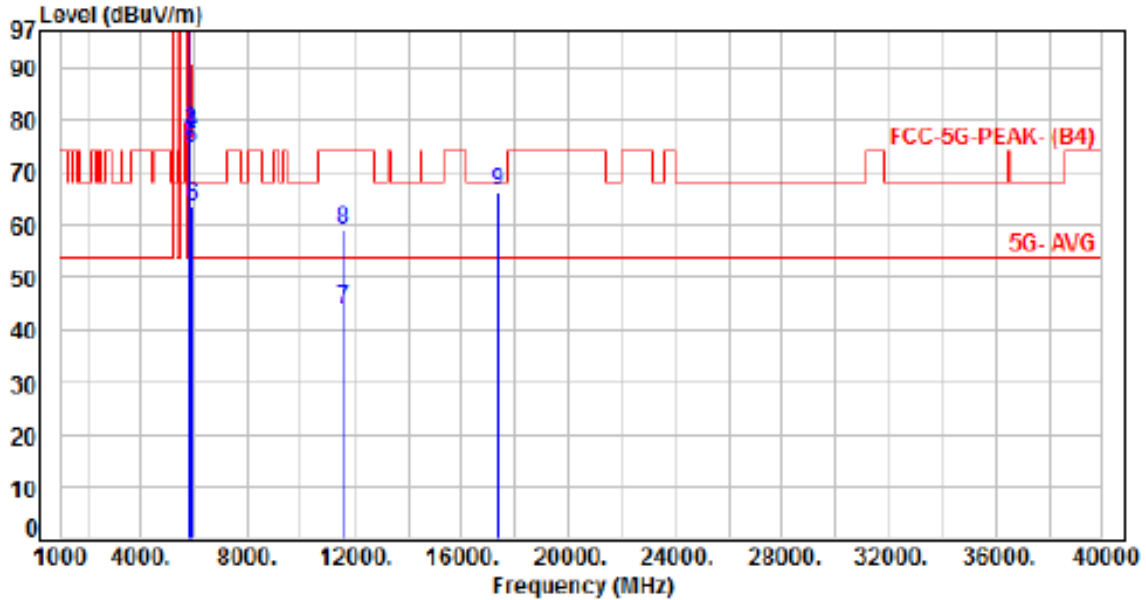
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5795.00	6.82	100.48	107.30	200.00	-92.70	Average	100	141	P
2	5795.00	6.82	113.57	120.39	200.00	-79.61	Peak	100	141	P
3	5850.00	6.86	72.74	79.60	122.20	-42.60	Peak	100	141	P
4	5855.00	6.91	72.36	79.27	110.80	-31.53	Peak	100	141	P
5	5875.00	7.08	65.78	72.86	105.20	-32.34	Peak	100	141	P
6	5925.00	7.32	54.51	61.83	68.20	-6.37	Peak	100	141	P
7	11590.00	15.47	28.57	44.04	54.00	-9.96	Average	100	62	P
8	11590.00	15.47	43.62	59.09	74.00	-14.91	Peak	100	62	P
9	17385.00	22.45	43.57	66.02	68.20	-2.18	Peak	100	146	P

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



Beamforming

Power	: AC 120V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 7, Band 4, CH159		:



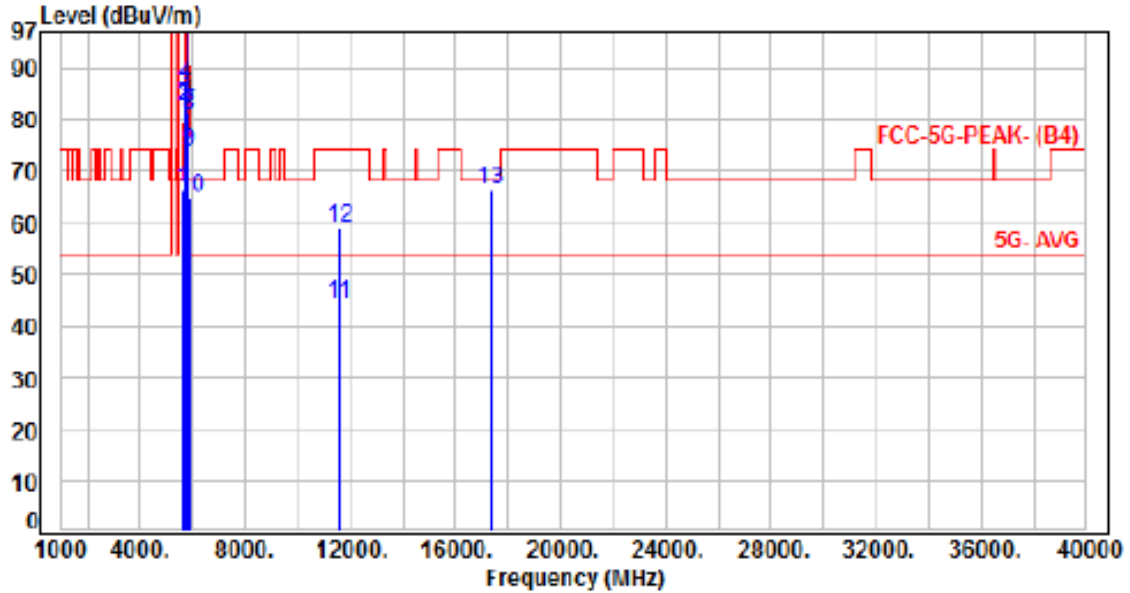
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5795.00	6.82	102.79	109.61	200.00	-90.39	Average	100	112	P
2	5795.00	6.82	114.66	121.48	200.00	-78.52	Peak	100	112	P
3	5850.00	6.86	70.94	77.80	122.20	-44.40	Peak	100	112	P
4	5855.00	6.91	70.44	77.35	110.80	-33.45	Peak	100	112	P
5	5875.00	7.08	67.42	74.50	105.20	-30.70	Peak	100	112	P
6	5925.00	7.32	56.29	63.61	68.20	-4.59	Peak	100	112	P
7	11590.00	15.47	28.49	43.96	54.00	-10.04	Average	100	76	P
8	11590.00	15.47	43.60	59.07	74.00	-14.93	Peak	100	76	P
9	17385.00	22.45	43.96	66.41	68.20	-1.79	Peak	100	101	P

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



Beamforming

Power	: AC 120V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 8, 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	6.62	59.70	66.32	68.20	-1.88	Peak	109	140	P
2	5700.00	6.86	75.70	82.56	105.20	-22.64	Peak	109	140	P
3	5720.00	6.83	78.19	85.02	110.80	-25.78	Peak	109	140	P
4	5725.00	6.83	79.67	86.50	122.20	-35.70	Peak	109	140	P
5	5775.00	6.80	95.61	102.41	200.00	-97.59	Average	109	140	P
6	5775.00	6.80	111.29	118.09	200.00	-81.91	Peak	109	140	P
7	5850.00	6.86	74.80	81.66	122.20	-40.54	Peak	109	140	P
8	5855.00	6.91	73.87	80.78	110.80	-30.02	Peak	109	140	P
9	5875.00	7.08	66.54	73.62	105.20	-31.58	Peak	109	140	P
10	5925.00	7.32	57.58	64.90	68.20	-3.30	Peak	109	140	P
11	11550.00	15.36	28.72	44.08	54.00	-9.92	Average	100	65	P
12	11550.00	15.36	43.79	59.15	74.00	-14.85	Peak	100	65	P
13	17325.00	22.13	44.16	66.29	68.20	-1.91	Peak	100	139	P

Note: Level=Reading+Factor

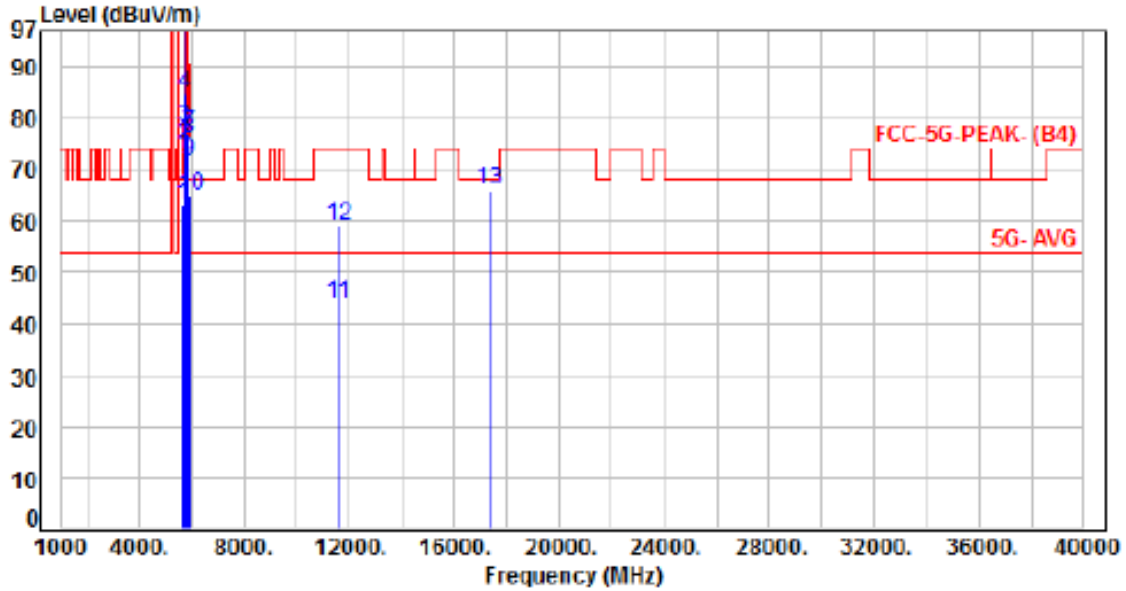
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Beamforming

Power	: AC 120V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 8, 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	6.62	56.49	63.11	68.20	-5.09	Peak	100	125	P
2	5700.00	6.86	68.11	74.97	105.20	-30.23	Peak	100	125	P
3	5720.00	6.83	71.26	78.09	110.80	-32.71	Peak	100	125	P
4	5725.00	6.83	78.09	84.92	122.20	-37.28	Peak	100	125	P
5	5775.00	6.80	97.82	104.62	200.00	-95.38	Average	100	125	P
6	5775.00	6.80	111.25	118.05	200.00	-81.95	Peak	100	125	P
7	5850.00	6.86	70.26	77.12	122.20	-45.08	Peak	100	125	P
8	5855.00	6.91	69.24	76.15	110.80	-34.65	Peak	100	125	P
9	5875.00	7.08	64.31	71.39	105.20	-33.81	Peak	100	125	P
10	5925.00	7.32	57.53	64.85	68.20	-3.35	Peak	100	125	P
11	11550.00	15.36	28.60	43.96	54.00	-10.04	Average	100	80	P
12	11550.00	15.36	43.68	59.04	74.00	-14.96	Peak	100	80	P
13	17325.00	22.13	43.74	65.87	68.20	-2.33	Peak	100	102	P

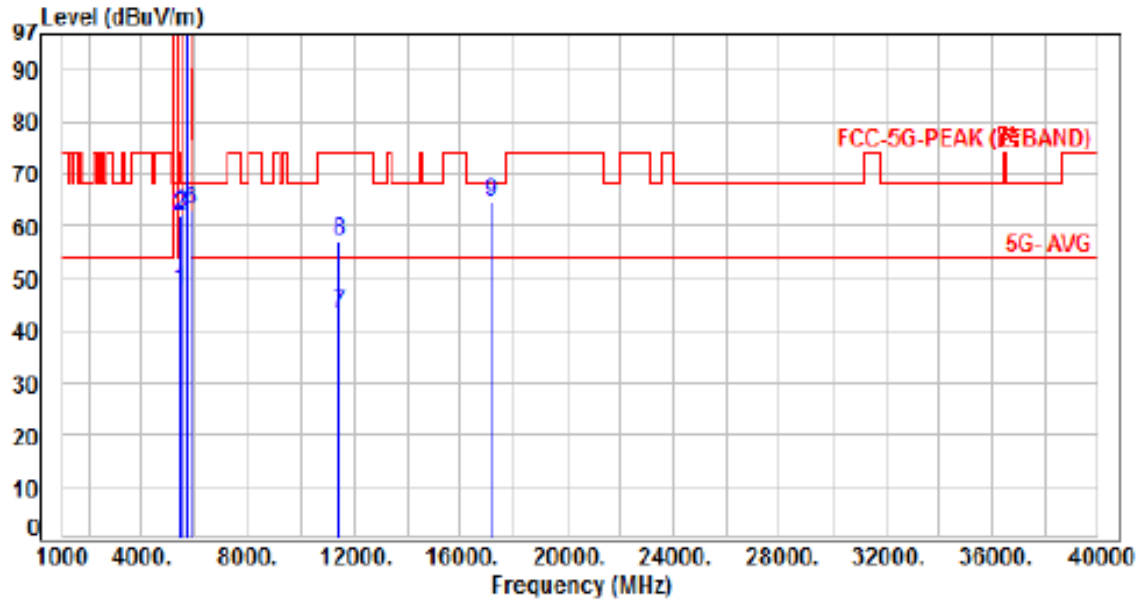
Note: Level=Reading+Factor  
Margin=Level-Limit  
Factor=Antenna Factor + cable loss - Amplifier Factor





Beamforming

Power	: AC 120V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 6, Band 3 Straddle Channel, CH144		:



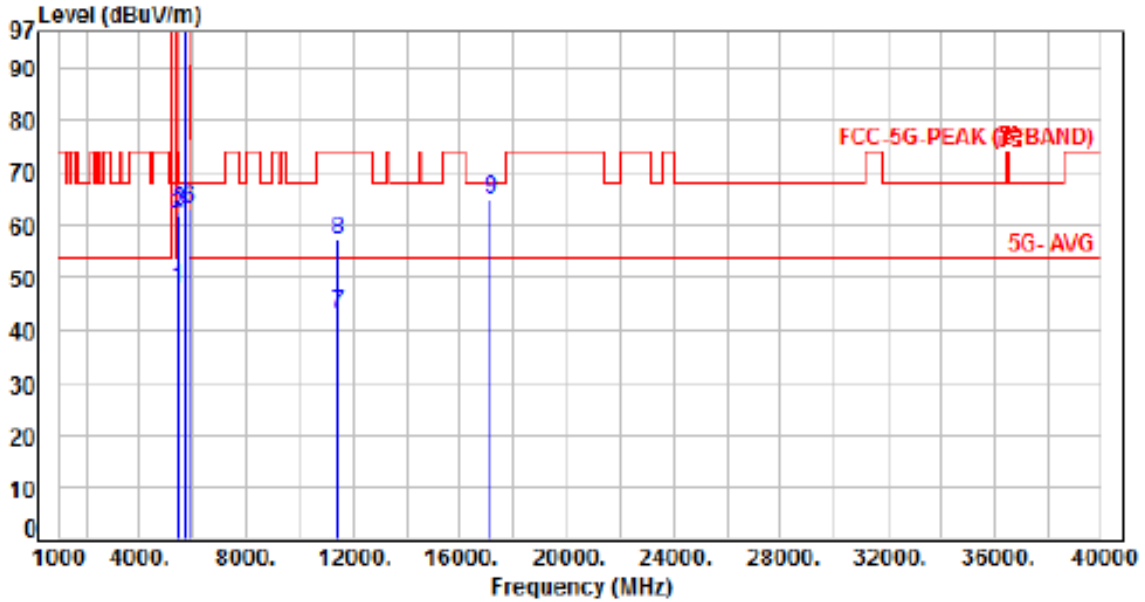
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5460.00	6.69	41.02	47.71	54.00	-6.29	Average	100	146	P
2	5460.00	6.69	55.13	61.82	74.00	-12.18	Peak	100	146	P
3	5470.00	6.72	55.68	62.40	68.20	-5.80	Peak	100	146	P
4	5720.00	6.83	105.32	112.15	200.00	-87.85	Average	100	146	P
5	5720.00	6.83	119.65	126.48	200.00	-73.52	Peak	100	146	P
6	5850.00	6.86	56.21	63.07	122.20	-59.13	Peak	100	146	P
7	11440.00	15.05	28.02	43.07	54.00	-10.93	Average	100	91	P
8	11440.00	15.05	42.00	57.05	74.00	-16.95	Peak	100	91	P
9	17160.00	21.14	43.56	64.70	68.20	-3.50	Peak	100	188	P

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



Beamforming

Power	: AC 120V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 6, Band 3 Straddle Channel, CH144		:



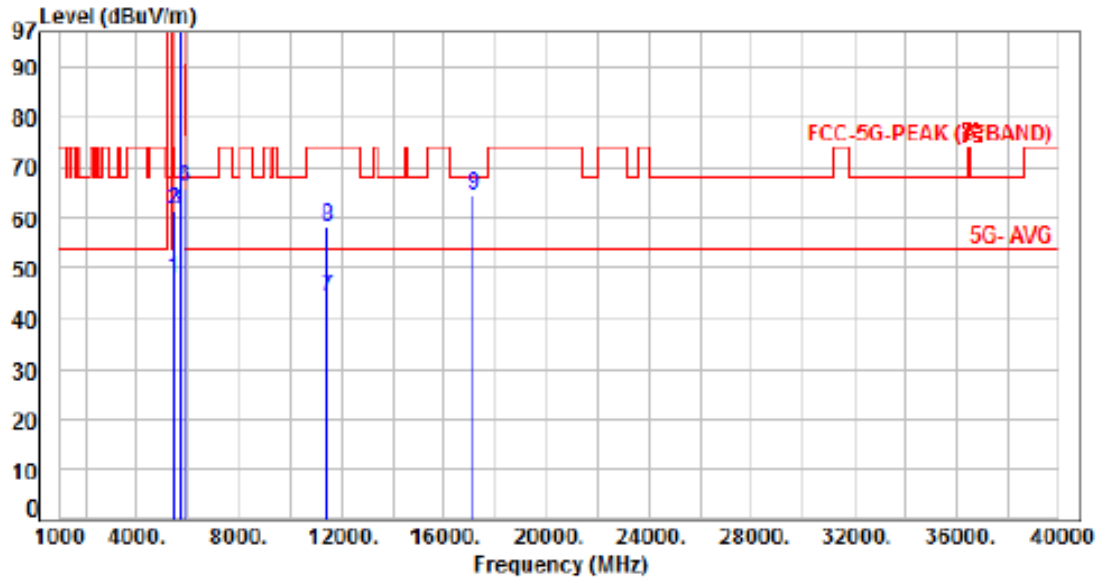
No.	Frequency (MHz)	Factor (dB)	Reading (dBUV)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5460.00	6.69	41.13	47.82	54.00	-6.18	Average	236	86	P
2	5460.00	6.69	55.19	61.88	74.00	-12.12	Peak	236	86	P
3	5470.00	6.72	55.96	62.68	68.20	-5.52	Peak	236	86	P
4	5720.00	6.83	108.10	114.93	200.00	-85.07	Average	236	86	P
5	5720.00	6.83	120.76	127.59	200.00	-72.41	Peak	236	86	P
6	5850.00	6.86	56.35	63.21	122.20	-58.99	Peak	236	86	P
7	11440.00	15.05	28.12	43.17	54.00	-10.83	Average	100	77	P
8	11440.00	15.05	42.19	57.24	74.00	-16.76	Peak	100	77	P
9	17160.00	21.14	43.69	64.83	68.20	-3.37	Peak	100	156	P

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



Beamforming

Power	: AC 120V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 7, Band 3 Straddle Channel, CH142		:



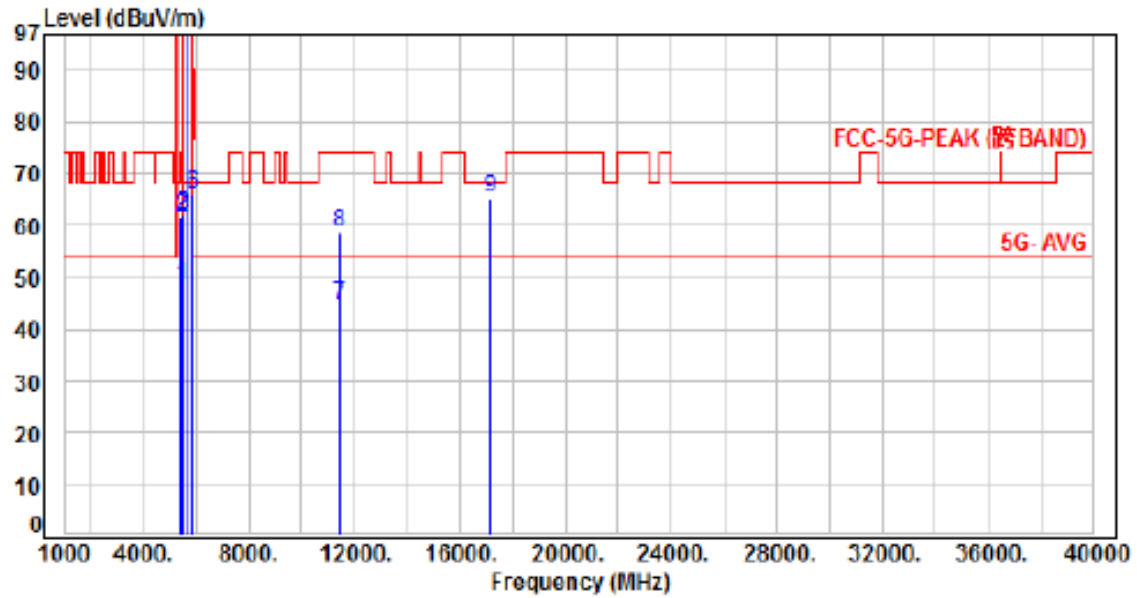
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5460.00	6.69	41.26	47.97	54.00	-6.03	Average	110	145	P
2	5460.00	6.69	54.78	61.47	74.00	-12.53	Peak	110	145	P
3	5470.00	6.72	55.00	61.72	68.20	-6.48	Peak	110	145	P
4	5710.00	6.84	102.27	109.11	200.00	-90.89	Average	110	145	P
5	5710.00	6.84	115.63	122.47	200.00	-77.53	Peak	110	145	P
6	5850.00	6.86	59.10	65.96	122.20	-56.24	Peak	110	145	P
7	11420.00	15.00	29.41	44.41	54.00	-9.59	Average	100	57	P
8	11420.00	15.00	43.26	58.26	74.00	-15.74	Peak	100	57	P
9	17130.00	20.97	43.70	64.67	68.20	-3.53	Peak	100	168	P

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



Beamforming

Power	: AC 120V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 7, Band 3 Straddle Channel, CH142		:



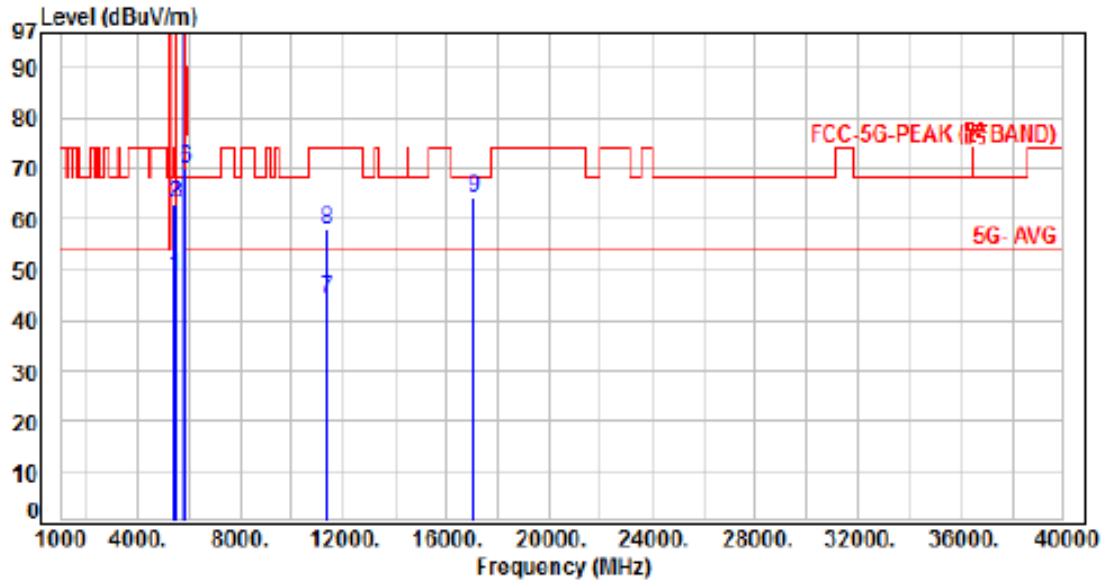
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5460.00	6.69	41.59	48.28	54.00	-5.72	Average	259	87	P
2	5460.00	6.69	54.87	61.56	74.00	-12.44	Peak	259	87	P
3	5470.00	6.72	55.26	61.98	68.20	-6.22	Peak	259	87	P
4	5710.00	6.84	104.08	110.92	200.00	-89.08	Average	259	87	P
5	5710.00	6.84	117.52	124.36	200.00	-75.64	Peak	259	87	P
6	5850.00	6.86	59.29	66.15	122.20	-56.05	Peak	259	87	P
7	11420.00	15.00	29.75	44.75	54.00	-9.25	Average	100	94	P
8	11420.00	15.00	43.62	58.62	74.00	-15.38	Peak	100	94	P
9	17130.00	20.97	44.22	65.19	68.20	-3.01	Peak	100	186	P

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



Beamforming

Power	: AC 120V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 8, Band 3 Straddle Channel, CH138		:



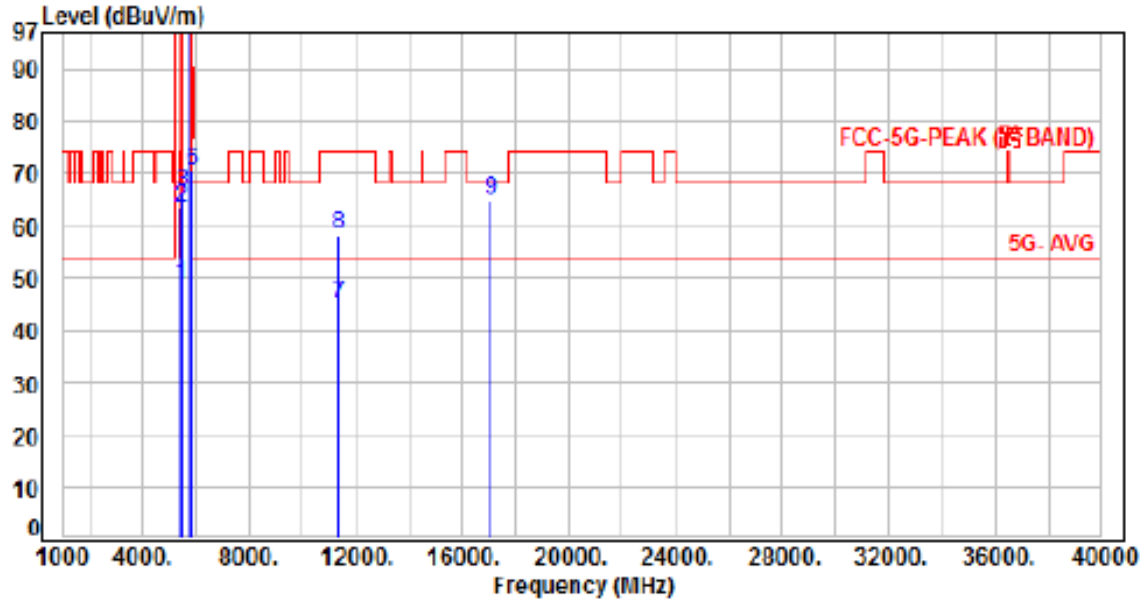
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5460.00	6.69	42.06	48.75	54.00	-5.25	Average	108	149	P
2	5460.00	6.69	56.23	62.92	74.00	-11.08	Peak	108	149	P
3	5470.00	6.72	56.22	62.94	68.20	-5.26	Peak	108	149	P
4	5690.00	6.81	98.56	105.37	200.00	-94.63	Average	108	149	P
5	5690.00	6.81	112.79	119.60	200.00	-80.40	Peak	108	149	P
6	5850.00	6.86	63.35	70.21	122.20	-51.99	Peak	108	149	P
7	11380.00	14.91	29.36	44.27	54.00	-9.73	Average	100	79	P
8	11380.00	14.91	43.07	57.98	74.00	-16.02	Peak	100	79	P
9	17070.00	20.74	43.50	64.24	68.20	-3.96	Peak	100	188	P

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



Beamforming

Power	: AC 120V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 8, 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	6.69	42.12	48.81	54.00	-5.19	Average	156	92	P
2	5460.00	6.69	56.59	63.28	74.00	-10.72	Peak	156	92	P
3	5470.00	6.72	59.60	66.32	68.20	-1.88	Peak	156	92	P
4	5690.00	6.81	101.28	108.09	200.00	-91.91	Average	156	92	P
5	5690.00	6.81	115.07	121.88	200.00	-78.12	Peak	156	92	P
6	5850.00	6.86	63.54	70.40	122.20	-51.80	Peak	156	92	P
7	11380.00	14.91	30.01	44.92	54.00	-9.08	Average	100	81	P
8	11380.00	14.91	43.48	58.39	74.00	-15.61	Peak	100	81	P
9	17070.00	20.74	44.17	64.91	68.20	-3.29	Peak	100	167	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

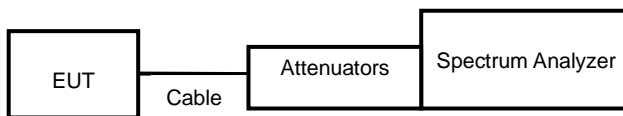
### 7.1. Test Limit

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

#### Non-Beamforming

Modulation Type	On Time (ms)	Period Time (ms)	Duty Cycle (%)
802.11a,6M	2.07	2.17	95.40%
802.11ax HE20	1.49	1.52	98.29%
802.11ax HE40	0.77	0.80	96.61%
802.11ax HE80	0.40	0.43	93.65%
802.11ax HE160	0.24	0.26	89.95%

#### Beamforming

Modulation Type	On Time (ms)	Period Time (ms)	Duty Cycle (%)
802.11ax HE20	8.92	9.18	97.17%
802.11ax HE40	12.63	13.80	91.52%
802.11ax HE80	11.17	12.03	92.87%
802.11ax HE160	10.54	10.95	96.22%

### 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



Non-Beamforming

Modulation Type: 802.11a (6Mbps)



Modulation Type: 802.11ax HE80(30.6Mbps)



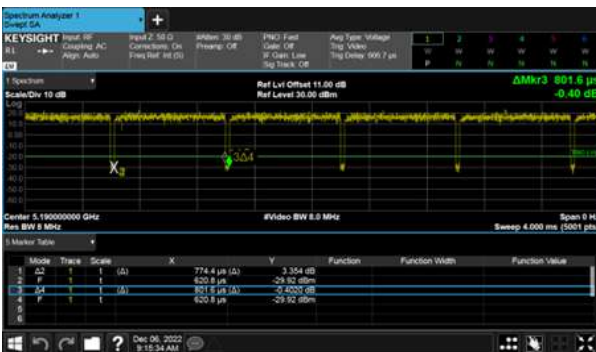
Modulation Type: 802.11ax HE20(7.3Mbps)



Modulation Type: 802.11ax HE160(61.3Mbps)



Modulation Type: 802.11ax HE40(14.6Mbps)





Beamforming

Modulation Type: 802.11ax HE20(7.3Mbps)

Modulation Type: 802.11ax HE40(14.6Mbps)



Modulation Type: 802.11ax HE20(7.3Mbps)

Modulation Type: 802.11ax HE40(14.6Mbps)



Modulation Type: 802.11ax HE40(14.6Mbps)





Modulation Type: 802.11ax HE80(30.6Mbps)

Modulation Type: 802.11ax HE160(61.3Mbps)



Modulation Type: 802.11ax HE80(30.6Mbps)



Modulation Type: 802.11ax HE160(61.3Mbps)





## 8. 6dB Bandwidth & 99% Occupied Bandwidth

### 8.1. Test Limit

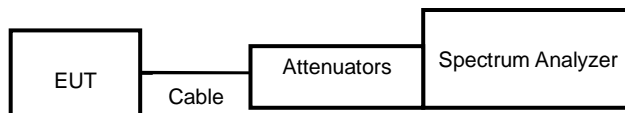
FCC §15.407

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

Non-Beamforming

In the 5.8G Band

Modulation Type	Channel	Frequency (MHz)	6dB Bandwidth(MHz)				Minimum Limit (MHz)
			ANT A	ANT B	ANT C	ANT D	
11a	149	5745	16.34	16.36	16.35	16.36	0.50
11a	157	5785	16.32	16.33	16.34	16.36	0.50
11a	165	5825	16.34	16.34	16.35	16.35	0.50
11ax HE20	149	5745	19.04	18.93	18.99	18.97	0.50
11ax HE20	157	5785	18.97	18.95	18.97	19.00	0.50
11ax HE20	165	5825	18.99	18.94	18.95	18.96	0.50
11ax HE40	151	5755	37.70	37.64	37.73	37.79	0.50
11ax HE40	159	5795	37.65	37.65	37.72	37.95	0.50
11ax HE80	155	5775	77.07	77.60	77.46	77.59	0.50

Modulation Type	Channel	Frequency (MHz)	99% Bandwidth(MHz)			
			ANT A	ANT B	ANT C	ANT D
11a	149	5745	17.10	17.07	17.09	17.04
11a	157	5785	17.17	17.13	17.15	17.01
11a	165	5825	17.14	17.14	17.16	17.03
11ax HE20	149	5745	19.18	19.15	19.19	19.14
11ax HE20	157	5785	19.20	19.17	19.22	19.13
11ax HE20	165	5825	19.14	19.15	19.22	19.13
11ax HE40	151	5755	38.02	38.04	38.08	38.00
11ax HE40	159	5795	38.02	38.11	38.08	38.00
11ax HE80	155	5775	77.29	77.30	77.30	77.29



UNII Emission Bandwidth Result (Extends across 5725MHz band)										
Modulation Type	Data Rate / MCS	Frequency (MHz)	6dB Bandwidth(MHz)				99% Bandwidth(MHz)			
			ANT A	ANT B	ANT C	ANT D	ANT A	ANT B	ANT C	ANT D
11a	6 Mbps	5720	3.21	3.17	3.18	3.20	5.06	5.01	5.01	5.04
11ax HE20	NSS1-MCS0	5720	4.54	4.48	4.46	4.47	4.97	4.99	5.03	4.99
11ax HE40	NSS1-MCS0	5710	4.01	3.79	3.84	3.90	4.97	4.86	4.82	4.91
11ax HE80	NSS1-MCS0	5690	3.91	3.84	3.91	3.86	5.56	5.37	5.30	5.22



Beamforming  
In the 5.8G Band

Modulation Type	Channel	Frequency (MHz)	6dB Bandwidth(MHz)				Minimum Limit (MHz)
			ANT A	ANT B	ANT C	ANT D	
11ax HE20	149	5745	19.02	18.66	18.89	19.02	0.50
11ax HE20	157	5785	18.98	19.02	18.91	18.93	0.50
11ax HE20	165	5825	18.94	18.96	19.02	19.00	0.50
11ax HE40	151	5755	37.53	36.89	36.49	37.55	0.50
11ax HE40	159	5795	37.33	36.35	37.70	37.97	0.50
11ax HE80	155	5775	76.19	75.78	76.38	75.70	0.50

Modulation Type	Channel	Frequency (MHz)	99% Bandwidth(MHz)			
			ANT A	ANT B	ANT C	ANT D
11ax HE20	149	5745	19.18	19.04	19.21	19.20
11ax HE20	157	5785	19.18	19.19	19.16	19.17
11ax HE20	165	5825	19.16	19.22	19.20	19.22
11ax HE40	151	5755	38.04	38.04	38.00	37.98
11ax HE40	159	5795	38.00	38.05	38.02	37.95
11ax HE80	155	5775	77.22	77.18	77.13	76.95

UNII Emission Bandwidth Result (Extends across 5725MHz band)										
Modulation Type	Data Rate / MCS	Frequency (MHz)	6dB Bandwidth(MHz)				99% Bandwidth(MHz)			
			ANT A	ANT B	ANT C	ANT D	ANT A	ANT B	ANT C	ANT D
11ax HE20	NSS1-MCS0	5720	4.53	4.50	4.57	4.51	5.03	5.02	5.02	5.01
11ax HE40	NSS1-MCS0	5710	3.99	4.05	3.96	3.20	4.94	4.87	5.01	6.46
11ax HE80	NSS1-MCS0	5690	4.00	4.06	4.04	3.94	6.74	5.52	7.96	13.39





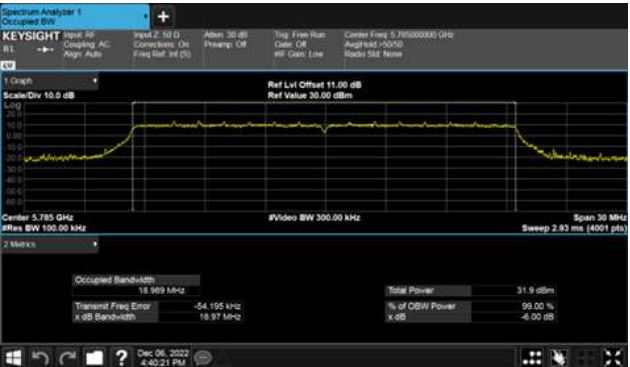
6dB Bandwidth  
Non-Beamforming, ANT A  
Modulation Type: 802.11a (6Mbps)  
CH149

Modulation Type: 802.11ax HE20(7.3Mbps)  
CH149



CH157

CH157



CH165

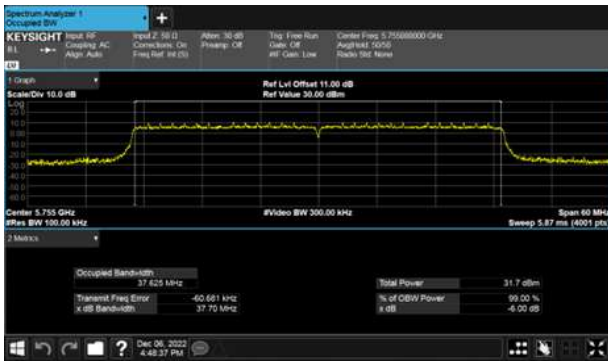
CH165





6dB Bandwidth  
Non-Beamforming, ANT A  
Modulation Type: 802.11ax HE40(14.6Mbps)  
CH151

Modulation Type: 802.11ax HE80(30.6Mbps)  
CH155



CH159





6dB Bandwidth  
Non-Beamforming, ANT B  
Modulation Type: 802.11a (6Mbps)  
CH149

Modulation Type: 802.11ax HE20(7.3Mbps)  
CH149



CH157

CH157



CH165

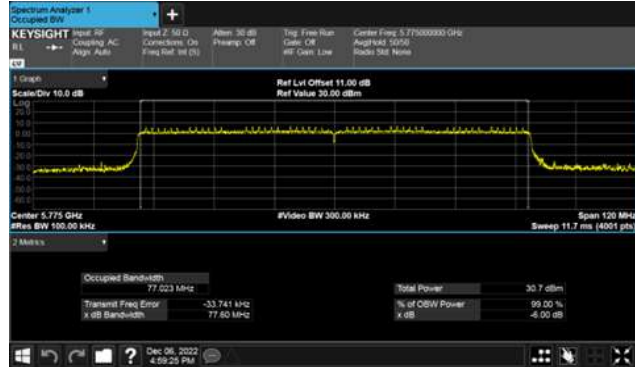
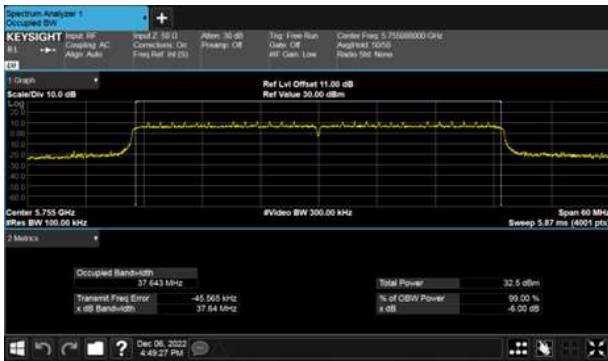
CH165





6dB Bandwidth  
Non-Beamforming, ANT B  
Modulation Type: 802.11ax HE40(14.6Mbps)  
CH151

Modulation Type: 802.11ax HE80(30.6Mbps)  
CH155



CH159





6dB Bandwidth  
Non-Beamforming, ANT C  
Modulation Type: 802.11a (6Mbps)  
CH149

Modulation Type: 802.11ax HE20(7.3Mbps)  
CH149



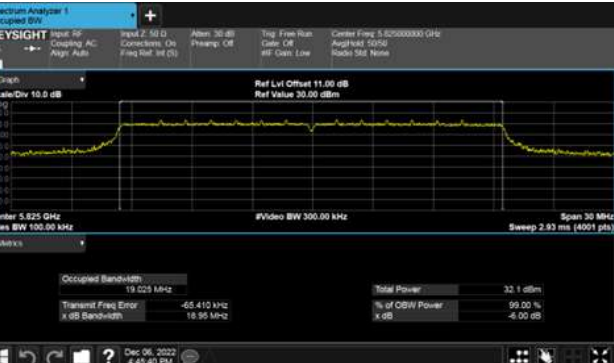
CH157

CH157



CH165

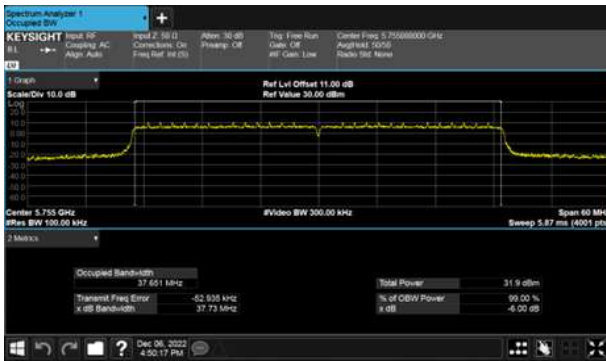
CH165





6dB Bandwidth  
Non-Beamforming, ANT C  
Modulation Type: 802.11ax HE40(14.6Mbps)  
CH151

Modulation Type: 802.11ax HE80(30.6Mbps)  
CH155

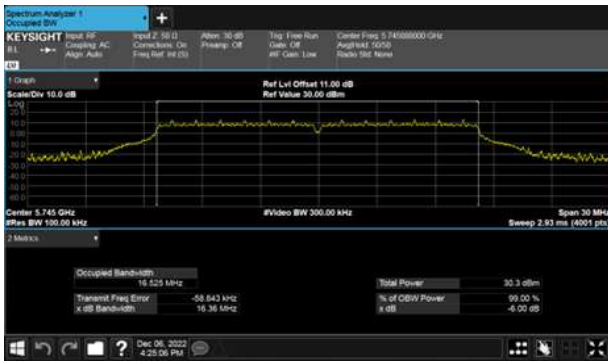


CH159





6dB Bandwidth  
Non-Beamforming, ANT D  
Modulation Type: 802.11a (6Mbps)  
CH149



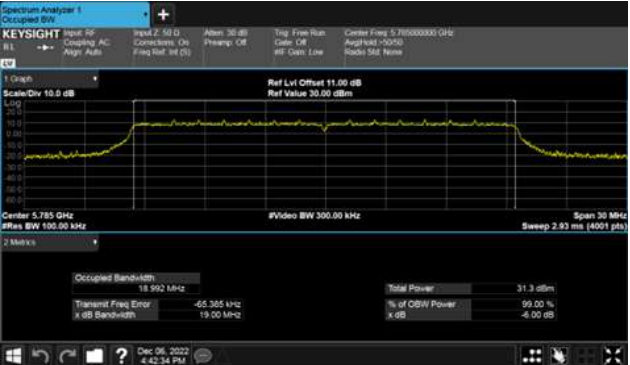
Modulation Type: 802.11ax HE20(7.3Mbps)  
CH149



CH157



CH157



CH165



CH165

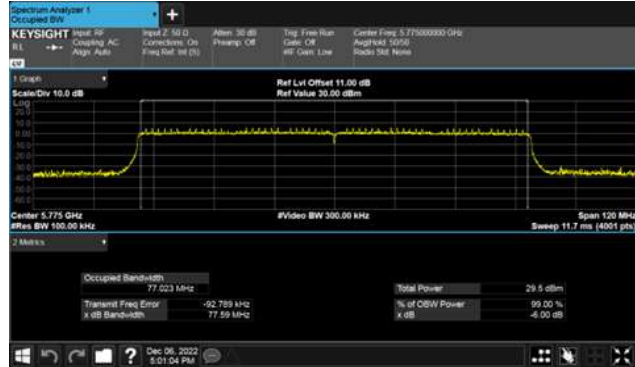




6dB Bandwidth  
Non-Beamforming, ANT D  
Modulation Type: 802.11ax HE40(14.6Mbps)  
CH151



Modulation Type: 802.11ax HE80(30.6Mbps)  
CH155



CH159







6dB Bandwidth Non-Beamforming ,ANT A  
Extends across 5725MHz Band, Straddle Channel

Modulation Type: 802.11a (6Mbps)  
CH144



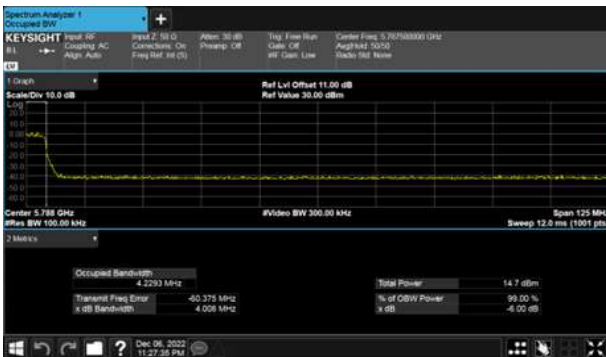
Modulation Type: 802.11ax HE80(30.6Mbps)  
CH138



Modulation Type: 802.11ax HE20(7.3Mbps)  
CH144



Modulation Type: 802.11ax HE40(14.6Mbps)  
CH142





6dB Bandwidth Non-Beamforming ,ANT B  
Extends across 5725MHz Band, Straddle Channel

Modulation Type: 802.11a (6Mbps)  
CH144



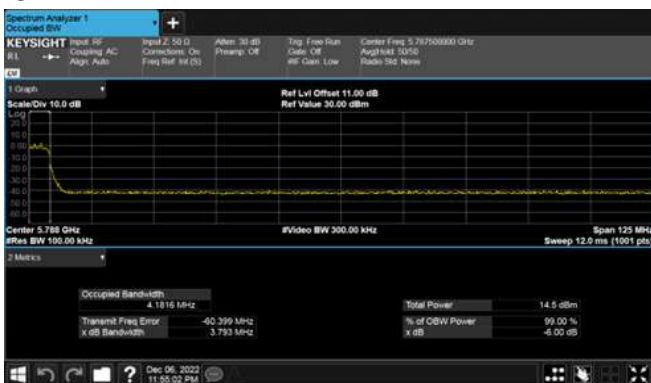
Modulation Type: 802.11ax HE80(30.6Mbps)  
CH138



Modulation Type: 802.11ax HE20(7.3Mbps)  
CH144



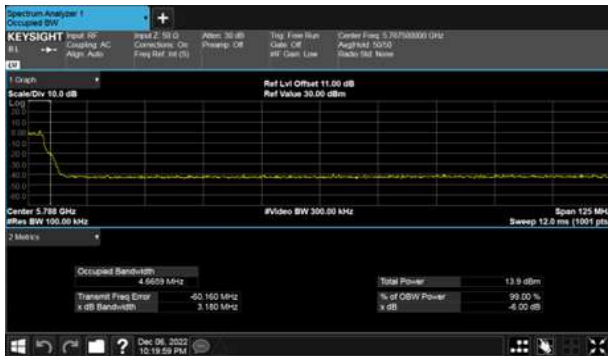
Modulation Type: 802.11ax HE40(14.6Mbps)  
CH142





6dB Bandwidth Non-Beamforming ,ANT C  
Extends across 5725MHz Band, Straddle Channel

Modulation Type: 802.11a (6Mbps)  
CH144



Modulation Type: 802.11ax HE80(30.6Mbps)  
CH138



Modulation Type: 802.11ax HE20(7.3Mbps)  
CH144



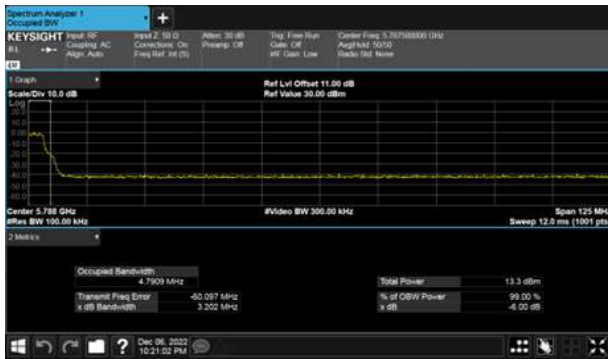
Modulation Type: 802.11ax HE40(14.6Mbps)  
CH142





6dB Bandwidth Non-Beamforming ,ANT D  
Extends across 5725MHz Band, Straddle Channel

Modulation Type: 802.11a (6Mbps)  
CH144



Modulation Type: 802.11ax HE80(30.6Mbps)  
CH138



Modulation Type: 802.11ax HE20(7.3Mbps)  
CH144



Modulation Type: 802.11ax HE40(14.6Mbps)  
CH142





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

Modulation Type: 802.11ax HE20(7.3Mbps)  
CH149



CH157



CH157



CH165



CH165





99% Occupied Bandwidth  
Non-Beamforming, ANT A  
Modulation Type: 802.11ax HE40(14.6Mbps)  
CH151

Modulation Type: 802.11ax HE80(30.6Mbps)  
CH155



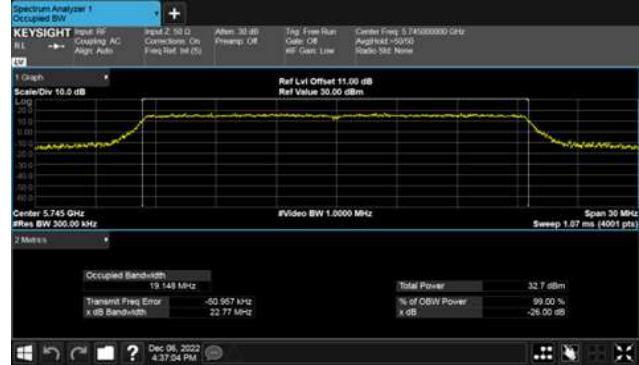
CH159





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

Modulation Type: 802.11ax HE20(7.3Mbps)  
CH149



CH157



CH157



CH165



CH165





99% Occupied Bandwidth  
Non-Beamforming, ANT B  
Modulation Type: 802.11ax HE40(14.6Mbps)  
CH151

Modulation Type: 802.11ax HE80(30.6Mbps)  
CH155



CH159







99% Occupied Bandwidth  
Non-Beamforming, ANT C  
Modulation Type: 802.11a (6Mbps)  
CH149

Modulation Type: 802.11ax HE20(7.3Mbps)  
CH149



CH157



CH157



CH165



CH165





99% Occupied Bandwidth  
Non-Beamforming, ANT C  
Modulation Type: 802.11ax HE40(14.6Mbps)  
CH151

Modulation Type: 802.11ax HE80(30.6Mbps)  
CH155



CH159





99% Occupied Bandwidth  
Non-Beamforming, ANT D  
Modulation Type: 802.11a (6Mbps)  
CH149

Modulation Type: 802.11ax HE20(7.3Mbps)  
CH149



CH157



CH157



CH165



CH165





99% Occupied Bandwidth  
Non-Beamforming, ANT D  
Modulation Type: 802.11ax HE40(14.6Mbps)  
CH151

Modulation Type: 802.11ax HE80(30.6Mbps)  
CH155



CH159





99% Occupied Bandwidth Non-Beamforming ,ANT A  
Extends across 5725MHz Band, Straddle Channel

Modulation Type: 802.11a (6Mbps)  
CH144



Modulation Type: 802.11ax HE80(30.6Mbps)  
CH138



Modulation Type: 802.11ax HE20(7.3Mbps)  
CH144



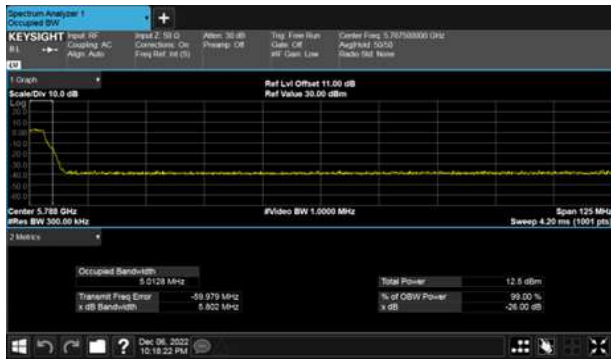
Modulation Type: 802.11ax HE40(14.6Mbps)  
CH142



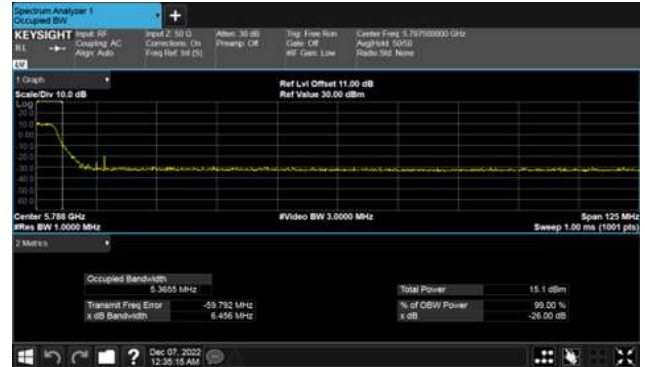


99% Occupied Bandwidth Non-Beamforming ,ANT B  
Extends across 5725MHz Band, Straddle Channel

Modulation Type: 802.11a (6Mbps)  
CH144



Modulation Type: 802.11ax HE80(30.6Mbps)  
CH138



Modulation Type: 802.11ax HE20(7.3Mbps)  
CH144



Modulation Type: 802.11ax HE40(14.6Mbps)  
CH142





99% Occupied Bandwidth Non-Beamforming ,ANT C  
Extends across 5725MHz Band, Straddle Channel

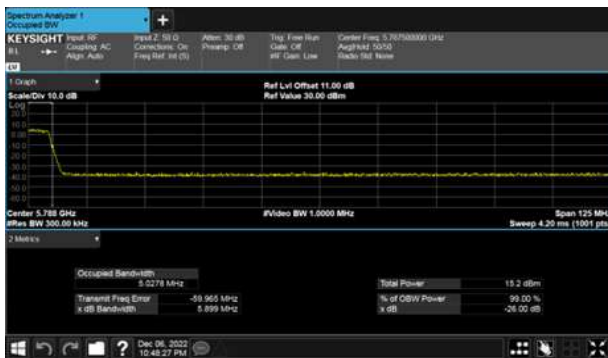
Modulation Type: 802.11a (6Mbps)  
CH144



Modulation Type: 802.11ax HE80(30.6Mbps)  
CH138



Modulation Type: 802.11ax HE20(7.3Mbps)  
CH144



Modulation Type: 802.11ax HE40(14.6Mbps)  
CH142





99% Occupied Bandwidth Non-Beamforming ,ANT D  
Extends across 5725MHz Band, Straddle Channel

Modulation Type: 802.11a (6Mbps)  
CH144



Modulation Type: 802.11ax HE80(30.6Mbps)  
CH138



Modulation Type: 802.11ax HE20(7.3Mbps)  
CH144



Modulation Type: 802.11ax HE40(14.6Mbps)  
CH142

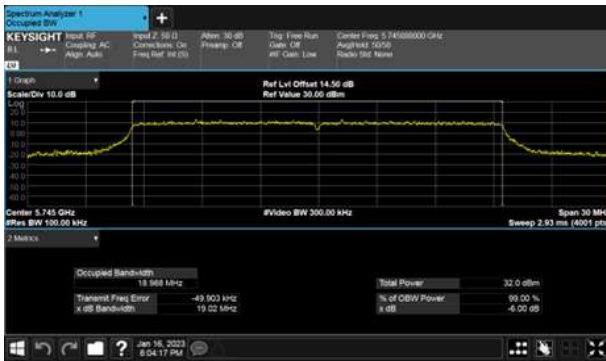






6dB Bandwidth  
Beamforming, ANT A  
Modulation Type: 802.11ax HE20(7.3Mbps)  
CH149

Modulation Type: 802.11ax HE40(14.6Mbps)  
CH151



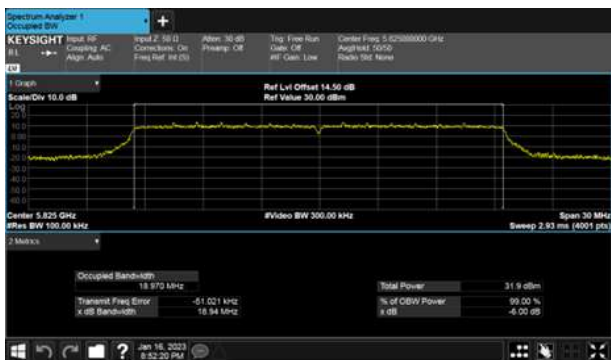
CH157



CH159



CH165





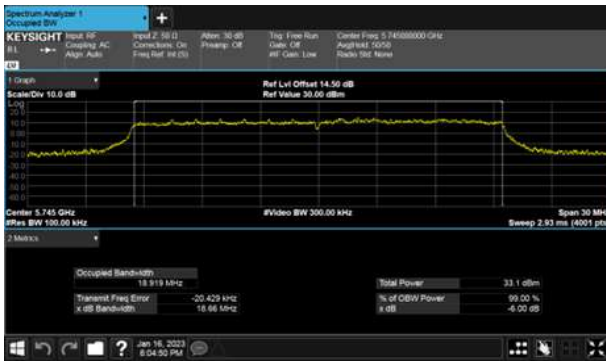
6dB Bandwidth  
Beamforming, ANT A  
Modulation Type: 802.11ax HE80(30.6Mbps)  
CH155





6dB Bandwidth  
Beamforming, ANT B  
Modulation Type: 802.11ax HE20(7.3Mbps)  
CH149

Modulation Type: 802.11ax HE40(14.6Mbps)  
CH151



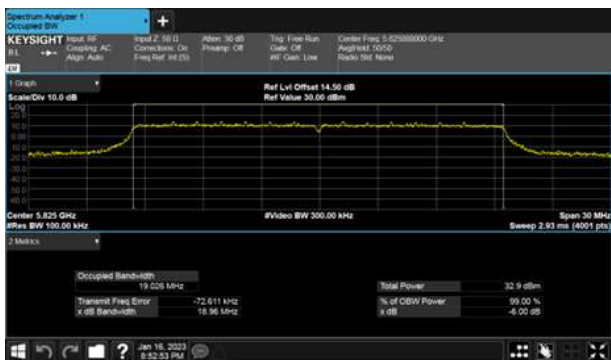
CH157



CH159



CH165





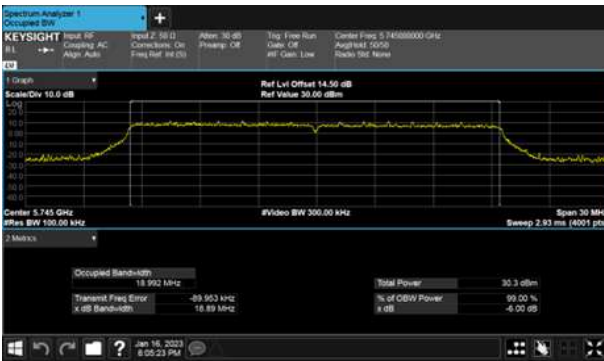
6dB Bandwidth  
Beamforming, ANT B  
Modulation Type: 802.11ax HE80(30.6Mbps)  
CH155





6dB Bandwidth  
Beamforming, ANT C  
Modulation Type: 802.11ax HE20(7.3Mbps)  
CH149

Modulation Type: 802.11ax HE40(14.6Mbps)  
CH151



CH157



CH159

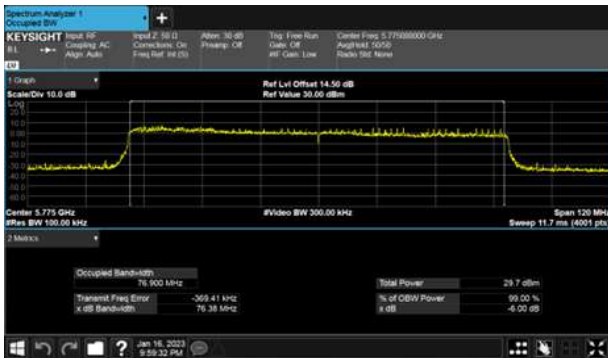


CH165





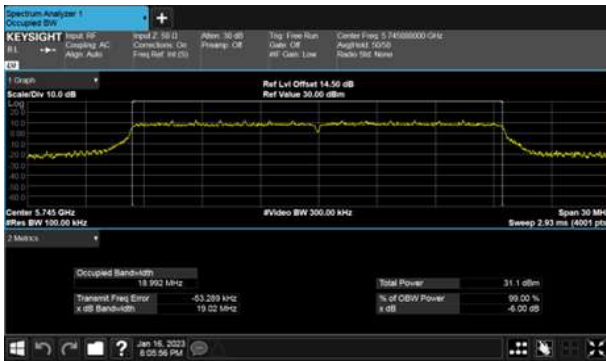
6dB Bandwidth  
Beamforming, ANT C  
Modulation Type: 802.11ax HE80(30.6Mbps)  
CH155





6dB Bandwidth  
Beamforming, ANT D  
Modulation Type: 802.11ax HE20(7.3Mbps)  
CH149

Modulation Type: 802.11ax HE40(14.6Mbps)  
CH151



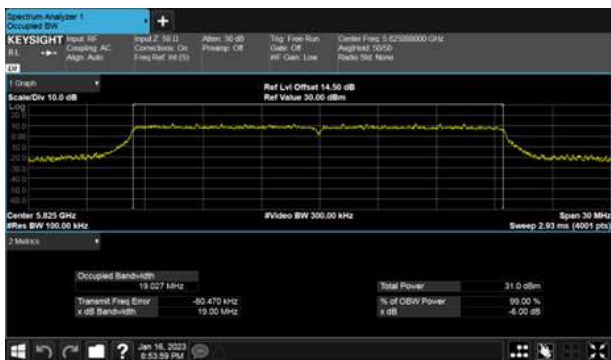
CH157



CH159



CH165





6dB Bandwidth  
Beamforming, ANT D  
Modulation Type: 802.11ax HE80(30.6Mbps)  
CH155







6dB Bandwidth Beamforming ,ANT A  
Extends across 5725MHz Band, Straddle Channel  
Modulation Type: 802.11ax HE20(7.3Mbps)  
CH144



Modulation Type: 802.11ax HE40(14.6Mbps)  
CH142



Modulation Type: 802.11ax HE80(30.6Mbps)  
CH138





6dB Bandwidth Beamforming ,ANT B  
Extends across 5725MHz Band, Straddle Channel  
Modulation Type: 802.11ax HE20(7.3Mbps)  
CH144



Modulation Type: 802.11ax HE40(14.6Mbps)  
CH142



Modulation Type: 802.11ax HE80(30.6Mbps)  
CH138

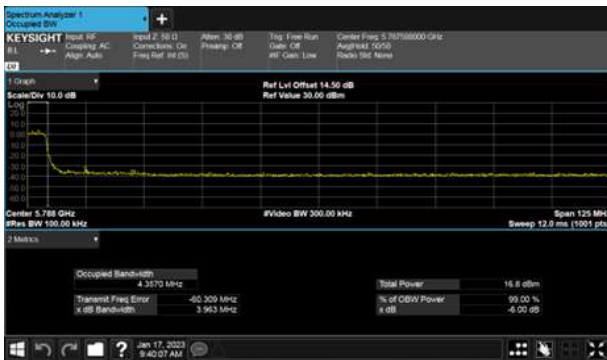




6dB Bandwidth Beamforming ,ANT C  
Extends across 5725MHz Band, Straddle Channel  
Modulation Type: 802.11ax HE20(7.3Mbps)  
CH144



Modulation Type: 802.11ax HE40(14.6Mbps)  
CH142



Modulation Type: 802.11ax HE80(30.6Mbps)  
CH138





6dB Bandwidth Beamforming ,ANT D  
Extends across 5725MHz Band, Straddle Channel

Modulation Type: 802.11ax HE20(7.3Mbps)  
CH144



Modulation Type: 802.11ax HE40(14.6Mbps)  
CH142



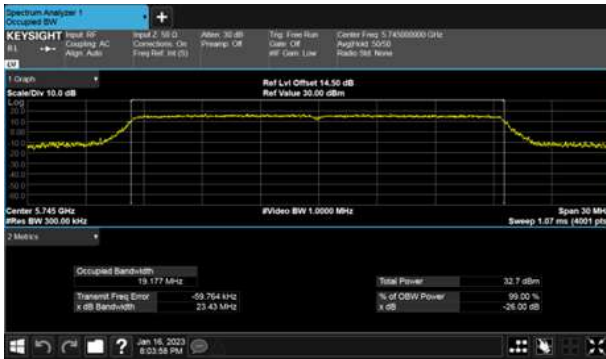
Modulation Type: 802.11ax HE80(30.6Mbps)  
CH138





99% Occupied Bandwidth  
Beamforming, ANT A  
Modulation Type: 802.11ax HE20(7.3Mbps)  
CH149

Modulation Type: 802.11ax HE40(14.6Mbps)  
CH151



CH157



CH159



CH165





99% Occupied Bandwidth  
Beamforming, ANT A  
Modulation Type: 802.11ax HE80(30.6Mbps)  
CH155





99% Occupied Bandwidth  
Beamforming, ANT B  
Modulation Type: 802.11ax HE20(7.3Mbps)  
CH149

Modulation Type: 802.11ax HE40(14.6Mbps)  
CH151



CH157



CH159



CH165





99% Occupied Bandwidth  
Beamforming, ANT B  
Modulation Type: 802.11ax HE80(30.6Mbps)  
CH155

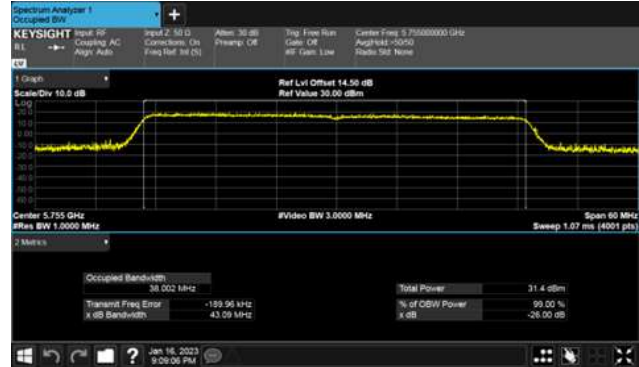
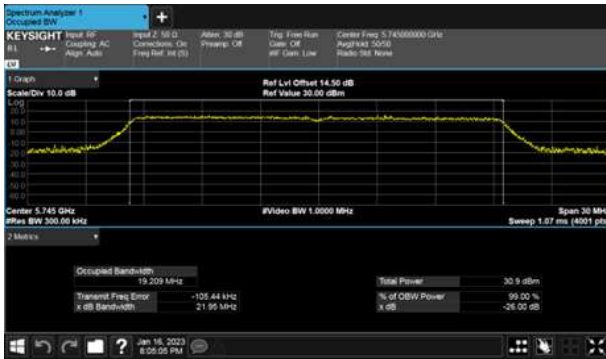






99% Occupied Bandwidth  
Beamforming, ANT C  
Modulation Type: 802.11ax HE20(7.3Mbps)  
CH149

Modulation Type: 802.11ax HE40(14.6Mbps)  
CH151



CH157



CH159



CH165





99% Occupied Bandwidth  
Beamforming, ANT C  
Modulation Type: 802.11ax HE80(30.6Mbps)  
CH155





99% Occupied Bandwidth  
Beamforming, ANT D  
Modulation Type: 802.11ax HE20(7.3Mbps)  
CH149

Modulation Type: 802.11ax HE40(14.6Mbps)  
CH151



CH157



CH159



CH165





99% Occupied Bandwidth  
Beamforming, ANT D  
Modulation Type: 802.11ax HE80(30.6Mbps)  
CH155





99% Occupied Bandwidth Beamforming ,ANT A  
Extends across 5725MHz Band, Straddle Channel

Modulation Type: 802.11ax HE20(7.3Mbps)  
CH144



Modulation Type: 802.11ax HE40(14.6Mbps)  
CH142



Modulation Type: 802.11ax HE80(30.6Mbps)  
CH138





99% Occupied Bandwidth Beamforming ,ANT B  
Extends across 5725MHz Band, Straddle Channel

Modulation Type: 802.11ax HE20(7.3Mbps)  
CH144



Modulation Type: 802.11ax HE40(14.6Mbps)  
CH142



Modulation Type: 802.11ax HE80(30.6Mbps)  
CH138





99% Occupied Bandwidth Beamforming ,ANT C  
Extends across 5725MHz Band, Straddle Channel  
Modulation Type: 802.11ax HE20(7.3Mbps)  
CH144



Modulation Type: 802.11ax HE40(14.6Mbps)  
CH142



Modulation Type: 802.11ax HE80(30.6Mbps)  
CH138





99% Occupied Bandwidth Beamforming ,ANT D  
Extends across 5725MHz Band, Straddle Channel  
Modulation Type: 802.11ax HE20(7.3Mbps)  
CH144



Modulation Type: 802.11ax HE40(14.6Mbps)  
CH142



Modulation Type: 802.11ax HE80(30.6Mbps)  
CH138







## 9. 26dB Bandwidth & 99% Occupied Bandwidth

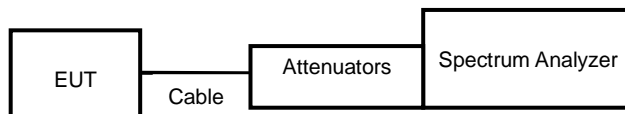
### 9.1. Test Limit

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**

Non-Beamforming

In the 5.2G Band

Mode	Channel	Frequency (MHz)	26dB Bandwidth(MHz)			
			ANT A	ANT B	ANT C	ANT D
11a	36	5180	21.58	21.70	21.45	21.33
11a	40	5200	21.76	21.62	21.52	21.49
11a	48	5240	21.62	21.68	21.49	21.42
11ax HE20	36	5180	21.85	21.77	21.51	21.62
11ax HE20	40	5200	21.98	21.79	21.76	21.66
11ax HE20	48	5240	21.89	21.47	21.77	21.67
11ax HE40	38	5190	41.30	41.36	41.20	41.36
11ax HE40	46	5230	41.34	41.29	41.26	41.30
11ax HE80	42	5210	82.15	82.25	81.67	81.63

In the 5.3G Band

Mode	Channel	Frequency (MHz)	26dB Bandwidth(MHz)			
			ANT A	ANT B	ANT C	ANT D
11a	52	5260	21.76	21.53	21.46	21.62
11a	60	5300	21.62	21.66	21.65	21.68
11a	64	5320	21.71	21.72	21.58	21.54
11ax HE20	52	5260	21.84	21.79	21.81	21.70
11ax HE20	60	5300	21.85	21.64	21.71	21.76
11ax HE20	64	5320	21.99	21.75	21.98	21.57
11ax HE40	54	5270	41.54	41.41	41.45	41.42
11ax HE40	62	5310	41.54	41.40	41.42	41.25
11ax HE80	58	5290	82.18	82.29	82.10	81.89

In the 5.5G Band

Mode	Channel	Frequency (MHz)	26dB Bandwidth(MHz)			
			ANT A	ANT B	ANT C	ANT D
11a	100	5500	21.69	21.65	21.61	21.61
11a	120	5600	21.63	21.78	21.57	21.56
11a	140	5700	21.74	21.83	21.64	21.40
11ax HE20	100	5500	22.09	21.64	21.76	21.67
11ax HE20	120	5600	21.92	21.61	21.65	21.69
11ax HE20	140	5700	21.96	21.62	21.60	21.63
11ax HE40	102	5510	41.33	41.27	41.34	41.34
11ax HE40	118	5590	41.41	41.26	41.35	41.43
11ax HE40	134	5670	41.64	41.15	41.17	41.38
11ax HE80	106	5530	82.25	82.34	81.31	82.01
11ax HE80	122	5610	82.09	82.19	81.96	81.93



802.11ax(160)

Mode	Channel	Frequency (MHz)	26dB Bandwidth(MHz)			
			ANT A	ANT B	ANT C	ANT D
11ax HE160	114	5570	164.80	165.30	164.50	164.90



## Non-Beamforming

Mode	Channel	Frequency (MHz)	99% Bandwidth(MHz)			
			ANT A	ANT B	ANT C	ANT D
11a	36	5180	17.00	16.98	16.91	16.86
11a	40	5200	17.04	17.01	16.94	16.91
11a	48	5240	17.04	17.02	16.93	16.89
11ax HE20	36	5180	19.15	19.11	19.10	19.11
11ax HE20	40	5200	19.16	19.09	19.11	19.13
11ax HE20	48	5240	19.14	19.09	19.13	19.09
11ax HE40	38	5190	37.93	37.93	37.91	37.94
11ax HE40	46	5230	37.99	38.00	37.99	37.94
11ax HE80	42	5210	77.23	77.25	77.31	77.21

## In the 5.3G Band

Mode	Channel	Frequency (MHz)	99% Bandwidth(MHz)			
			ANT A	ANT B	ANT C	ANT D
11a	52	5260	17.04	17.04	16.95	16.89
11a	60	5300	17.08	17.02	16.95	16.89
11a	64	5320	17.04	17.04	16.96	16.91
11ax HE20	52	5260	19.13	19.11	19.15	19.10
11ax HE20	60	5300	19.16	19.13	19.12	19.11
11ax HE20	64	5320	19.16	19.10	19.12	19.11
11ax HE40	54	5270	37.96	37.98	37.95	37.94
11ax HE40	62	5310	37.98	37.95	37.98	37.98
11ax HE80	58	5290	77.39	77.21	77.29	77.26

## In the 5.5G Band

Mode	Channel	Frequency (MHz)	99% Bandwidth(MHz)			
			ANT A	ANT B	ANT C	ANT D
11a	100	5500	17.07	17.00	16.95	16.93
11a	120	5600	17.15	17.01	16.94	16.94
11a	140	5700	17.08	17.03	16.94	16.92
11ax HE20	100	5500	19.13	19.12	19.15	19.12
11ax HE20	120	5600	19.18	19.12	19.14	19.12
11ax HE20	140	5700	19.20	19.12	19.15	19.10
11ax HE40	102	5510	37.96	37.92	37.97	37.99
11ax HE40	118	5590	37.98	37.97	37.99	37.98
11ax HE40	134	5670	37.94	37.90	37.92	37.98
11ax HE80	106	5530	77.17	77.26	77.21	77.24
11ax HE80	122	5610	77.33	77.30	77.28	77.23



802.11ax(160)

Mode	Channel	Frequency (MHz)	99% Bandwidth(MHz)			
			ANT A	ANT B	ANT C	ANT D
11ax HE160	114	5570	156.46	156.69	156.57	156.49

Non-Beamforming

UNII Emission Bandwidth Result (Within 5470-5725MHz band)										
Modulation Type	Data Rate / MCS	Frequency (MHz)	26dB Bandwidth(MHz)				99% Bandwidth(MHz)			
			ANT A	ANT B	ANT C	ANT D	ANT A	ANT B	ANT C	ANT D
11a	6 Mbps	5720	16.02	15.97	15.91	15.80	13.80	13.64	13.70	13.66
11ax HE20	NSS1-MCS0	5720	16.08	15.81	16.04	16.00	14.56	14.68	14.62	14.60
11ax HE40	NSS1-MCS0	5710	35.83	35.88	35.69	35.78	33.91	33.93	33.84	34.03
11ax HE80	NSS1-MCS0	5690	76.20	76.09	75.95	76.32	73.41	73.34	73.27	73.37

UNII Emission Bandwidth Result (Within 5150-5250MHz band)										
Modulation Type	Data Rate / MCS	Frequency (MHz)	26dB Bandwidth(MHz)				99% Bandwidth(MHz)			
			ANT A	ANT B	ANT C	ANT D	ANT A	ANT B	ANT C	ANT D
11ax HE160	NSS1-MCS0	5250	82.94	82.53	82.43	82.62	78.04	78.04	78.07	77.89

UNII Emission Bandwidth Result (Extends across 5250MHz band)										
Modulation Type	Data Rate / MCS	Frequency (MHz)	26dB Bandwidth(MHz)				99% Bandwidth(MHz)			
			ANT A	ANT B	ANT C	ANT D	ANT A	ANT B	ANT C	ANT D
11ax HE160	NSS1-MCS0	5250	82.84	82.22	82.80	82.60	77.88	77.79	77.86	77.77



Beamforming  
In the 5.2G Band

Mode	Channel	Frequency (MHz)	26dB Bandwidth(MHz)			
			ANT A	ANT B	ANT C	ANT D
11ax HE20	36	5180	21.94	24.95	21.91	21.62
11ax HE20	40	5200	23.51	28.71	27.32	22.83
11ax HE20	48	5240	25.28	29.87	29.81	24.78
11ax HE40	38	5190	41.40	41.21	41.10	41.35
11ax HE40	46	5230	52.07	58.48	57.88	45.26
11ax HE80	42	5210	81.45	81.42	81.05	81.16

In the 5.3G Band

Mode	Channel	Frequency (MHz)	26dB Bandwidth(MHz)			
			ANT A	ANT B	ANT C	ANT D
11ax HE20	52	5260	21.78	21.77	21.76	21.80
11ax HE20	60	5300	21.79	21.11	21.92	21.78
11ax HE20	64	5320	21.88	21.81	21.76	21.88
11ax HE40	54	5270	41.57	41.18	41.17	41.18
11ax HE40	62	5310	41.51	41.38	41.26	41.17
11ax HE80	58	5290	81.15	81.41	81.20	81.17

In the 5.5G Band

Mode	Channel	Frequency (MHz)	26dB Bandwidth(MHz)			
			ANT A	ANT B	ANT C	ANT D
11ax HE20	100	5500	21.87	21.86	21.88	21.60
11ax HE20	120	5600	21.84	21.64	21.93	21.92
11ax HE20	140	5700	21.78	21.92	21.76	22.02
11ax HE40	102	5510	41.61	41.26	41.24	41.03
11ax HE40	118	5590	41.48	40.74	41.11	41.35
11ax HE40	134	5670	41.12	41.32	41.83	41.27
11ax HE80	106	5530	81.56	81.28	81.57	81.21
11ax HE80	122	5610	81.61	81.44	81.23	81.55

802.11ax(160)

Mode	Channel	Frequency (MHz)	26dB Bandwidth(MHz)			
			ANT A	ANT B	ANT C	ANT D
11ax HE160	114	5570	163.70	164.30	162.70	163.80



## Beamforming

Mode	Channel	Frequency (MHz)	99% Bandwidth(MHz)			
			ANT A	ANT B	ANT C	ANT D
11ax HE20	36	5180	19.12	19.15	19.17	19.14
11ax HE20	40	5200	19.20	19.30	19.18	19.06
11ax HE20	48	5240	19.21	19.28	19.22	19.19
11ax HE40	38	5190	37.93	37.86	37.84	38.09
11ax HE40	46	5230	38.06	38.15	38.29	38.08
11ax HE80	42	5210	77.22	76.80	77.08	77.11

## In the 5.3G Band

Mode	Channel	Frequency (MHz)	99% Bandwidth(MHz)			
			ANT A	ANT B	ANT C	ANT D
11ax HE20	52	5260	19.14	19.10	19.21	19.09
11ax HE20	60	5300	19.14	18.70	19.14	19.11
11ax HE20	64	5320	19.07	19.08	19.19	19.08
11ax HE40	54	5270	37.95	37.71	37.87	37.90
11ax HE40	62	5310	37.97	37.84	38.05	37.72
11ax HE80	58	5290	76.98	76.92	76.60	76.84

## In the 5.5G Band

Mode	Channel	Frequency (MHz)	99% Bandwidth(MHz)			
			ANT A	ANT B	ANT C	ANT D
11ax HE20	100	5500	19.17	19.17	19.11	19.16
11ax HE20	120	5600	19.11	19.16	19.16	19.10
11ax HE20	140	5700	19.13	19.13	19.15	19.17
11ax HE40	102	5510	37.98	37.73	37.79	37.76
11ax HE40	118	5590	37.99	37.51	37.78	37.75
11ax HE40	134	5670	37.83	37.97	37.99	37.83
11ax HE80	106	5530	77.27	77.05	76.94	77.00
11ax HE80	122	5610	77.14	77.22	76.94	76.78

## 802.11ax(160)

Mode	Channel	Frequency (MHz)	99% Bandwidth(MHz)			
			ANT A	ANT B	ANT C	ANT D
11ax HE160	114	5570	155.11	157.23	153.66	156.46



Beamforming

UNII Emission Bandwidth Result (Within 5470-5725MHz band)										
Modulation Type	Data Rate / MCS	Frequency (MHz)	26dB Bandwidth(MHz)				99% Bandwidth(MHz)			
			ANT A	ANT B	ANT C	ANT D	ANT A	ANT B	ANT C	ANT D
11ax HE20	NSS1-MCS0	5720	16.10	16.04	16.01	16.00	14.77	14.63	14.59	14.71
11ax HE40	NSS1-MCS0	5710	35.88	35.43	36.22	35.56	33.90	33.64	33.90	33.93
11ax HE80	NSS1-MCS0	5690	75.87	75.61	75.73	75.95	73.31	73.13	73.34	73.09

UNII Emission Bandwidth Result (Within 5150-5250MHz band)										
Modulation Type	Data Rate / MCS	Frequency (MHz)	26dB Bandwidth(MHz)				99% Bandwidth(MHz)			
			ANT A	ANT B	ANT C	ANT D	ANT A	ANT B	ANT C	ANT D
11ax HE160	NSS1-MCS0	5250	81.49	80.65	80.77	80.48	77.23	76.41	76.33	75.83

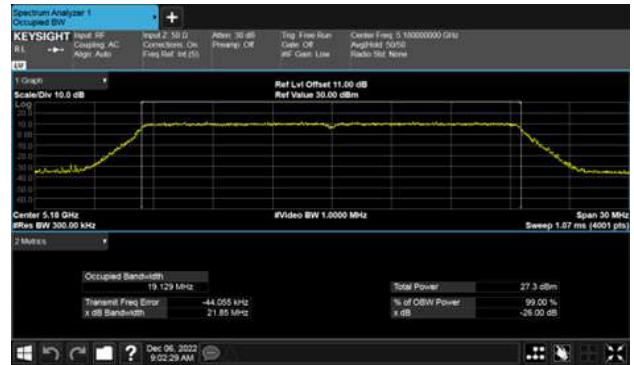
UNII Emission Bandwidth Result (Extends across 5250MHz band)										
Modulation Type	Data Rate / MCS	Frequency (MHz)	26dB Bandwidth(MHz)				99% Bandwidth(MHz)			
			ANT A	ANT B	ANT C	ANT D	ANT A	ANT B	ANT C	ANT D
11ax HE160	NSS1-MCS0	5250	82.61	82.75	82.43	81.02	77.93	77.79	77.72	77.19





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

Modulation Type: 802.11ax HE20(7.3Mbps)  
CH36



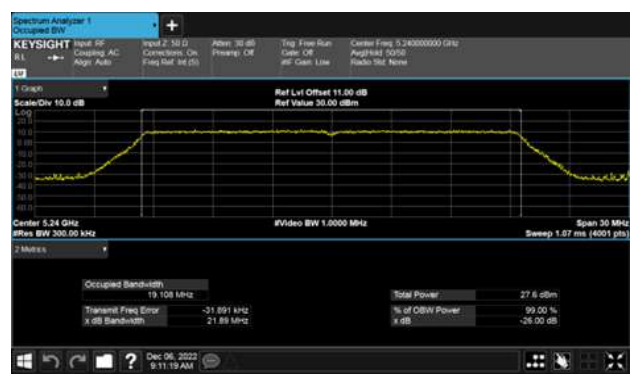
CH40

CH40



CH48

CH48





26dB Bandwidth, Band 1  
Non-Beamforming, ANT A  
Modulation Type: 802.11ax HE40(14.6Mbps)  
CH38

Modulation Type: 802.11ax HE80(30.6Mbps)  
CH42



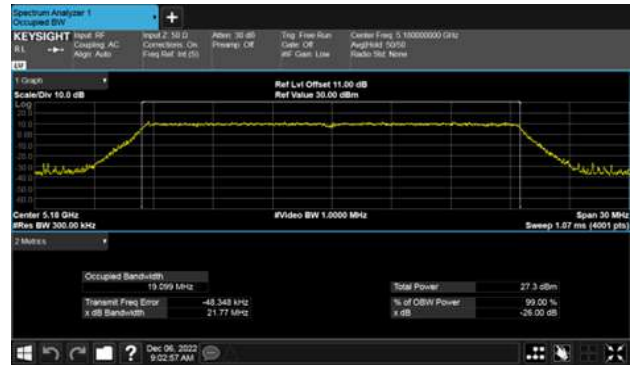
CH46





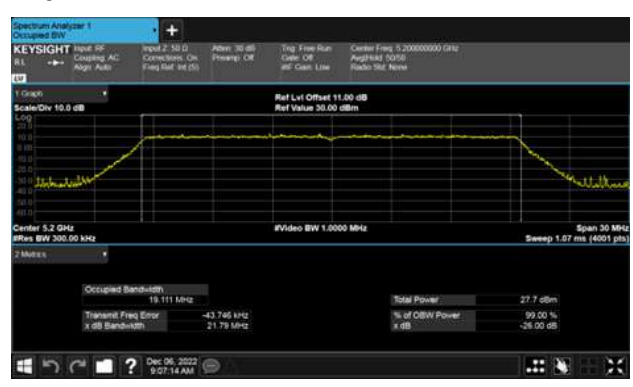
26dB Bandwidth, Band 1  
Non-Beamforming, ANT B  
Modulation Type: 802.11a (6Mbps)  
CH36

Modulation Type: 802.11ax HE20(7.3Mbps)  
CH36



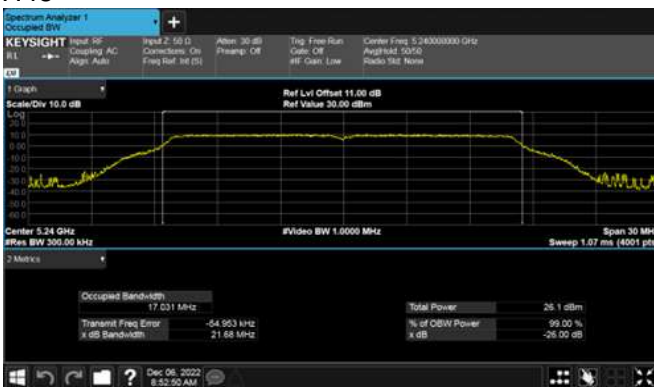
CH40

CH40



CH48

CH48





26dB Bandwidth, Band 1  
Non-Beamforming, ANT B  
Modulation Type: 802.11ax HE40(14.6Mbps)  
CH38

Modulation Type: 802.11ax HE80(30.6Mbps)  
CH42



CH46





26dB Bandwidth, Band 1  
Non-Beamforming, ANT C  
Modulation Type: 802.11a (6Mbps)  
CH36

Modulation Type: 802.11ax HE20(7.3Mbps)  
CH36



CH40



CH40



CH48



CH48

