



99% Bandwidth U-NII-5

Modulation Type: 802.11a
CH01 ANT A



802.11a
CH01 ANT B



CH45 ANT A



CH45 ANT B



CH93 ANT A



CH93 ANT B



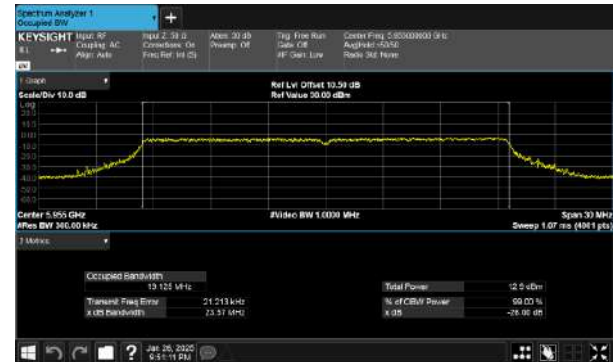


99% Bandwidth U-NII-5

Modulation Type: 802.11be EHT20
CH01 ANT A



802.11be EHT20
CH01 ANT B



CH45 ANT A



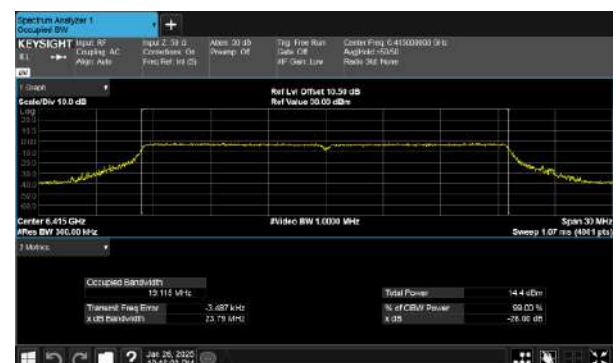
CH45 ANT B



CH93 ANT A



CH93 ANT B





99% Bandwidth U-NII-5

Modulation Type: 802.11be EHT40
CH03 ANT A802.11be EHT40
CH03 ANT B

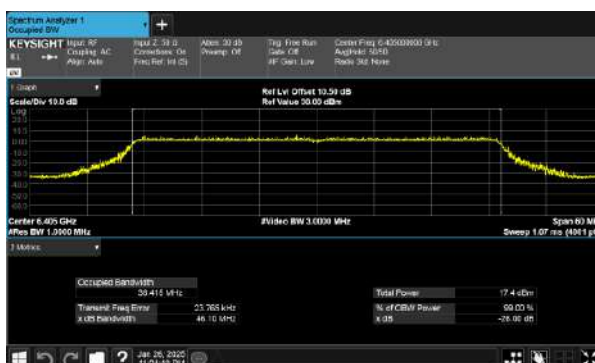
CH43 ANT A



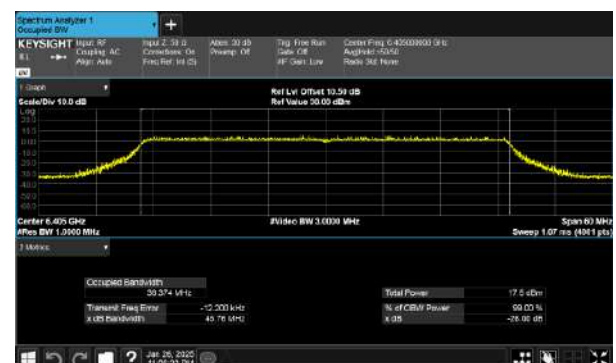
CH43 ANT B



CH91 ANT A



CH91 ANT B





99% Bandwidth U-NII-5

Modulation Type: 802.11be EHT80
CH07 ANT A



802.11be EHT80
CH07 ANT B



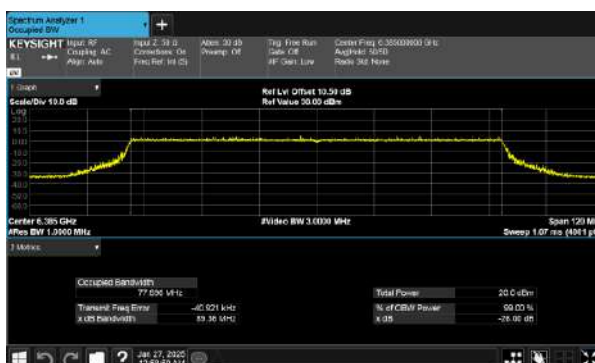
CH39 ANT A



CH39 ANT B



CH87 ANT A



CH87 ANT B





99% Bandwidth U-NII-5

Modulation Type: 802.11be EHT160
CH15 ANT A



802.11be EHT160
CH15 ANT B



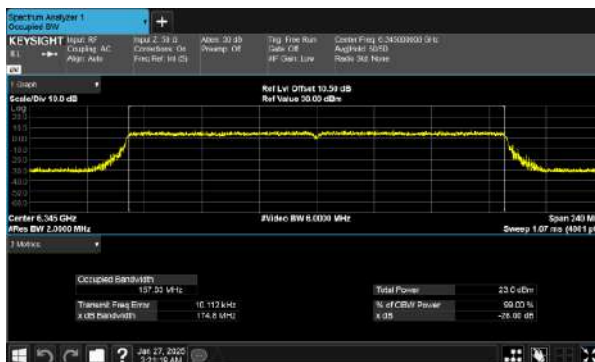
CH47 ANT A



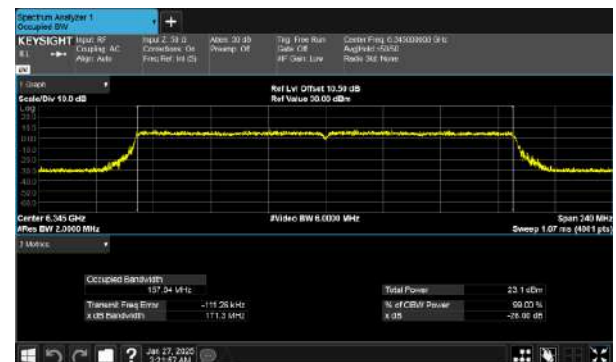
CH47 ANT B



CH79 ANT A



CH79 ANT B





99% Bandwidth U-NII-5

802.11be EHT320
CH31 ANT B

CH63 ANT A

CH63 ANT B





99% Bandwidth U-NII-6

Modulation Type: 802.11a
CH97 ANT A802.11a
CH97 ANT B

CH105 ANT A



CH105 ANT B



CH113 ANT A



CH113 ANT B





99% Bandwidth U-NII-6

Modulation Type: 802.11be EHT20
CH97 ANT A



802.11be EHT20
CH97 ANT B



CH105 ANT A



CH105 ANT B



CH113 ANT A



CH113 ANT B





99% Bandwidth U-NII-6

Modulation Type: 802.11be EHT40
CH99 ANT A



802.11be EHT40
CH99 ANT B



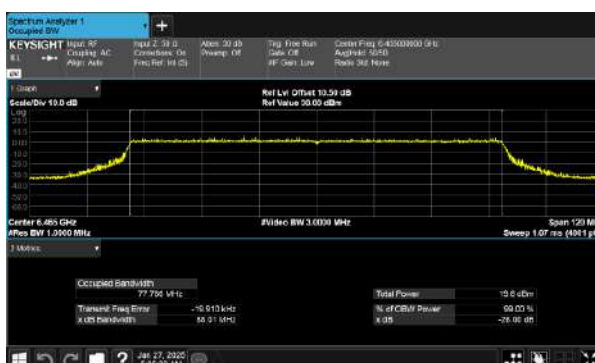
CH107 ANT A



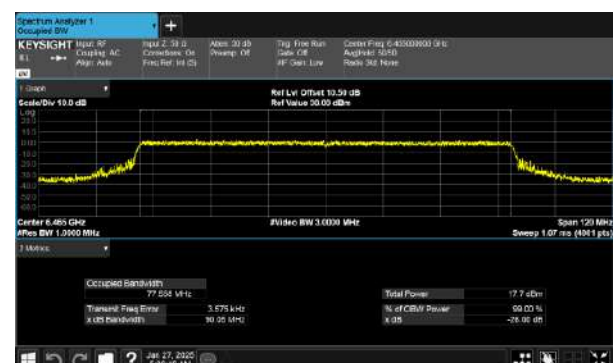
CH107 ANT B



Modulation Type: 802.11be EHT80
CH103 ANT A



802.11be EHT80
CH103 ANT B





99% Bandwidth U-NII-7

Modulation Type: 802.11a
CH117 ANT A



802.11a
CH117 ANT B



CH153 ANT A



CH153 ANT B



CH181 ANT A



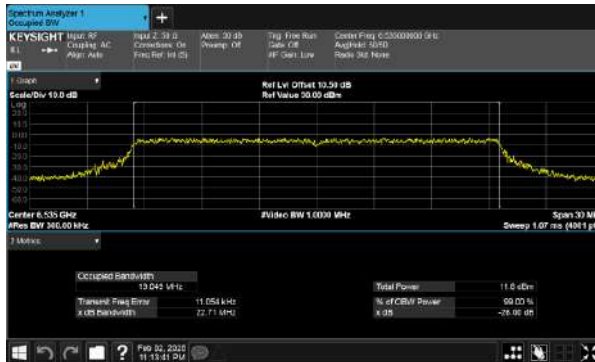
CH181 ANT B





99% Bandwidth U-NII-7

Modulation Type: 802.11be EHT20
CH117 ANT A



802.11be EHT20
CH117 ANT B



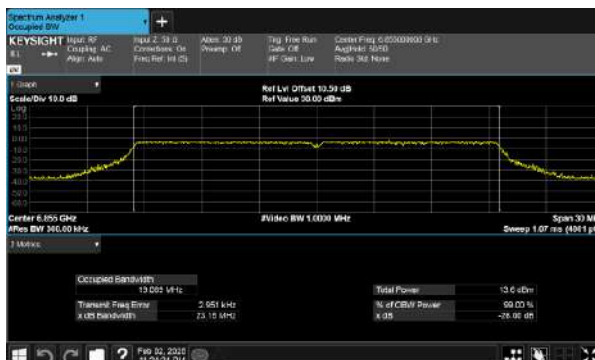
CH153 ANT A



CH153 ANT B



CH181 ANT A



CH181 ANT B





99% Bandwidth U-NII-7

Modulation Type: 802.11be EHT40
CH123 ANT A



802.11be EHT40
CH123 ANT B



CH155 ANT A



CH107 ANT B



CH179 ANT A



CH179 ANT B





99% Bandwidth U-NII-7

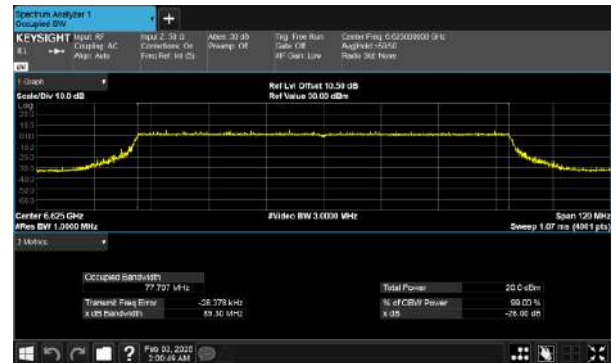
Modulation Type: 802.11be EHT80

CH135 ANT A



802.11be EHT80

CH135 ANT B



CH151 ANT A



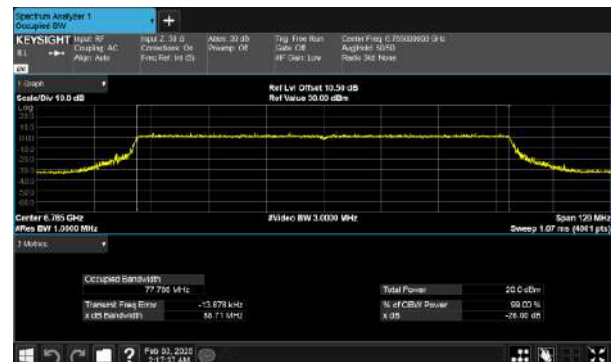
CH151 ANT B



CH167 ANT A



CH167 ANT B





99% Bandwidth U-NII-7

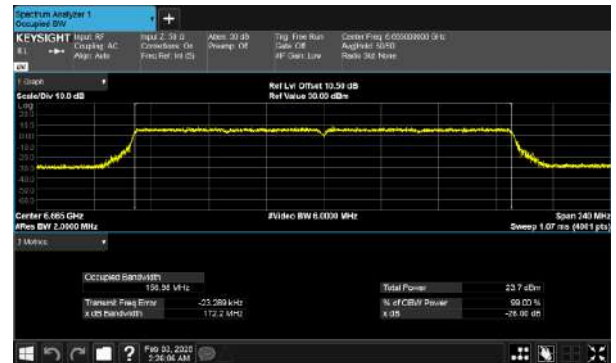
Modulation Type: 802.11be EHT160

CH143 ANT A



802.11be EHT160

CH143 ANT B





99% Bandwidth U-NII-8

Modulation Type: 802.11a
CH189 ANT A802.11a
CH189 ANT B

CH213 ANT A



CH213 ANT B



CH229 ANT A



CH229 ANT B





99% Bandwidth U-NII-8

Modulation Type: 802.11a
CH233 ANT A



802.11a
CH233 ANT B





99% Bandwidth U-NII-8

Modulation Type: 802.11be EHT20
CH189 ANT A



802.11be EHT20
CH189 ANT B



CH213 ANT A



CH213 ANT B



CH229 ANT A



CH229 ANT B





99% Bandwidth U-NII-8

Modulation Type: 802.11be EHT20
CH233 ANT A



802.11be EHT20
CH233 ANT B





99% Bandwidth U-NII-8

Modulation Type: 802.11be EHT40
CH195 ANT A802.11be EHT40
CH195 ANT B

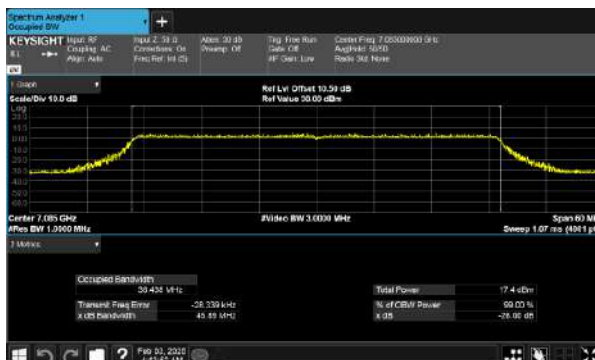
CH211 ANT A



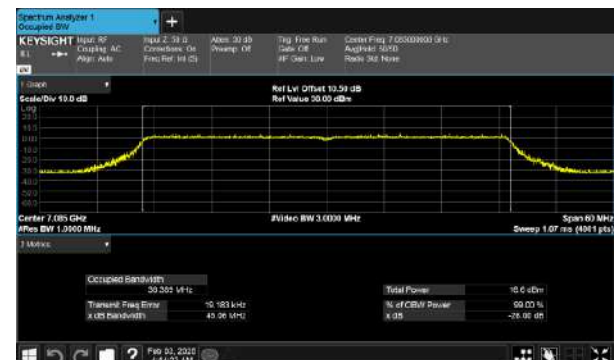
CH211 ANT B



CH227 ANT A

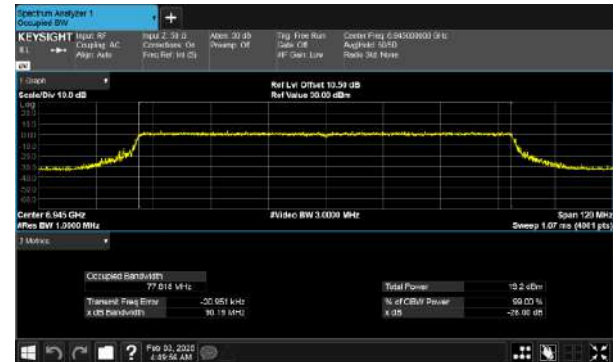


CH227 ANT B





99% Bandwidth U-NII-8

Modulation Type: 802.11be EHT80
CH199 ANT A802.11be EHT80
CH199 ANT B

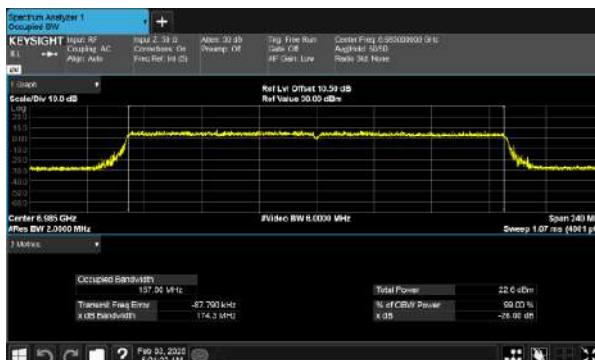
CH215 ANT A



CH215 ANT B



CH207 ANT A



CH207 ANT B





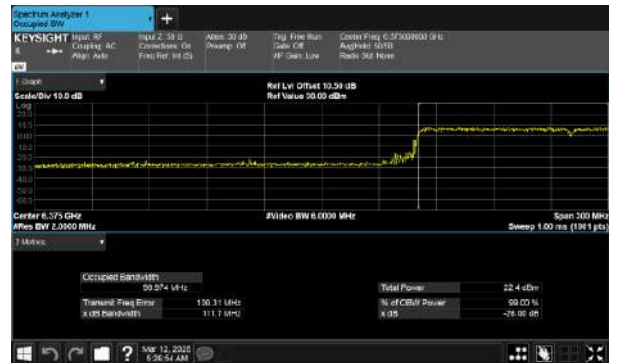
99% Bandwidth U-NII-6& U-NII-7

Modulation Type: 802.11be EHT320

CH127 ANT A

802.11be EHT320

CH127 ANT B



CH127 ANT A



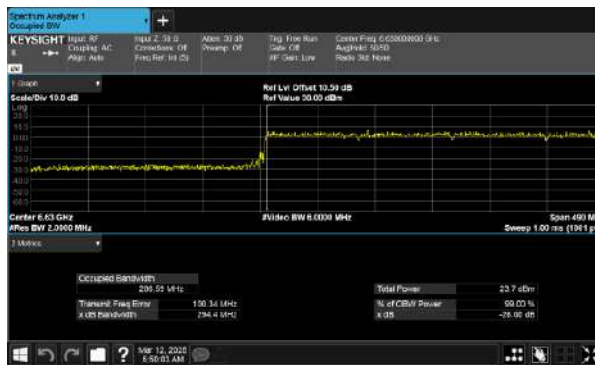
CH127 ANT B





99% Bandwidth U-NII-7& U-NII-8
Modulation Type: 802.11be EHT320
CH159 ANT A

802.11be EHT320
CH159 ANT B



CH159 ANT A

CH159 ANT B





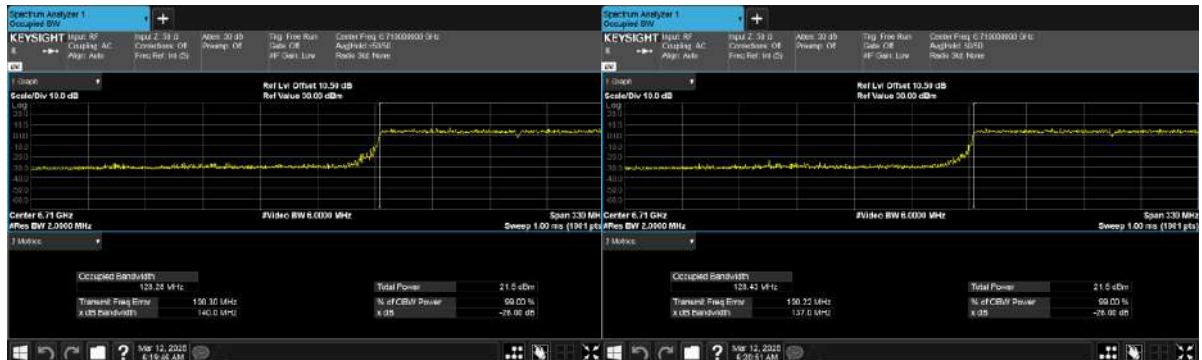
99% Bandwidth U-NII-7& U-NII-8

Modulation Type: 802.11be EHT320

CH191 ANT A

802.11be EHT320

CH191 ANT B



CH191 ANT A



CH191 ANT B





99% Bandwidth U-NII-5 & U-NII-6 & U-NII-7
Modulation Type: 802.11be EHT320
CH95 ANT A



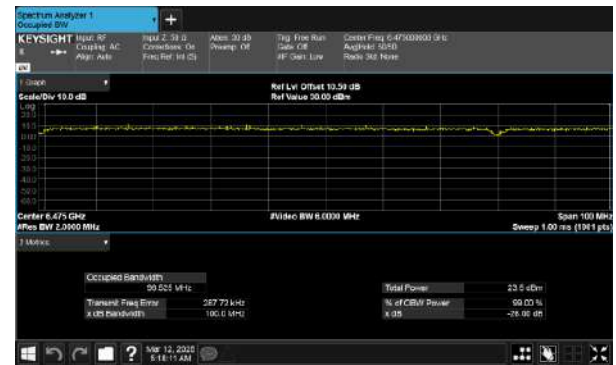
802.11be EHT320
CH95 ANT B



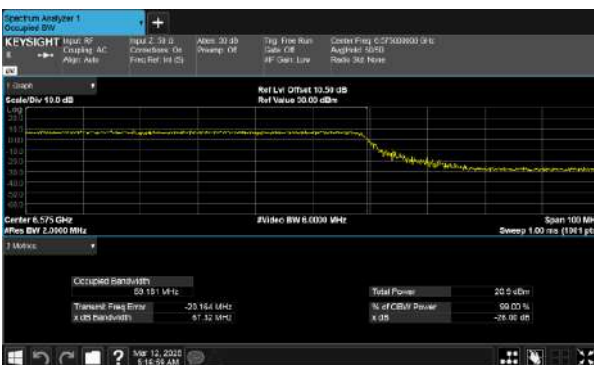
CH95 ANT A



CH95 ANT B



CH95 ANT A



CH95 ANT B





9. Maximum Equivalent Isotropically Radiated Power(E.I.R.P.)

9.1. Test Limit

Frequency Band		Limit
☒	5.925~6.425GHz	
	Operating Mode	
	☐ For standard power access point and fixed client device :	e.i.r.p < 36 dBm , For outdoor devices, the maximum e.i.r.p. at any elevation angle above 30 degrees not exceed 125 mW (21 dBm).
	☒ For indoor access point :	e.i.r.p < 30 dBm.
	☐ For subordinate device control of an indoor access point :	e.i.r.p < 30 dBm.
	☐ For client device control of a standard power access point:	e.i.r.p < 30 dBm.
	☐ For client device control of an indoor access point:	e.i.r.p < 24 dBm.
☒	☐ For very low power devices	e.i.r.p < 14 dBm.
	6.425-6.525 GHz	
	Operating Mode	
☒	☒ For indoor access point	e.i.r.p < 30 dBm.
	☐ For client device control of an indoor access point ::	e.i.r.p < 24 dBm.
☒	6.525~6.875 GHz	
	Operating Mode	
	☐ For standard power access point and fixed client device :	e.i.r.p < 36 dBm , For outdoor devices, the maximum e.i.r.p. at any elevation angle above 30 degrees not exceed 125 mW (21 dBm).
	☒ For indoor access point :	e.i.r.p < 30 dBm.
	☐ For subordinate device control of an indoor access point :	e.i.r.p < 30 dBm.
	☐ For client device control of a standard power access point:	e.i.r.p < 30 dBm.
	☐ For client device control of an indoor access point:	e.i.r.p < 24 dBm.
☒	☐ For very low power devices	e.i.r.p < 14 dBm.
	6.875-7.125 GHz	
	Operating Mode	
☒	☒ For indoor access point	e.i.r.p < 30 dBm.
	☐ For client device control of an indoor access point ::	e.i.r.p < 24 dBm.



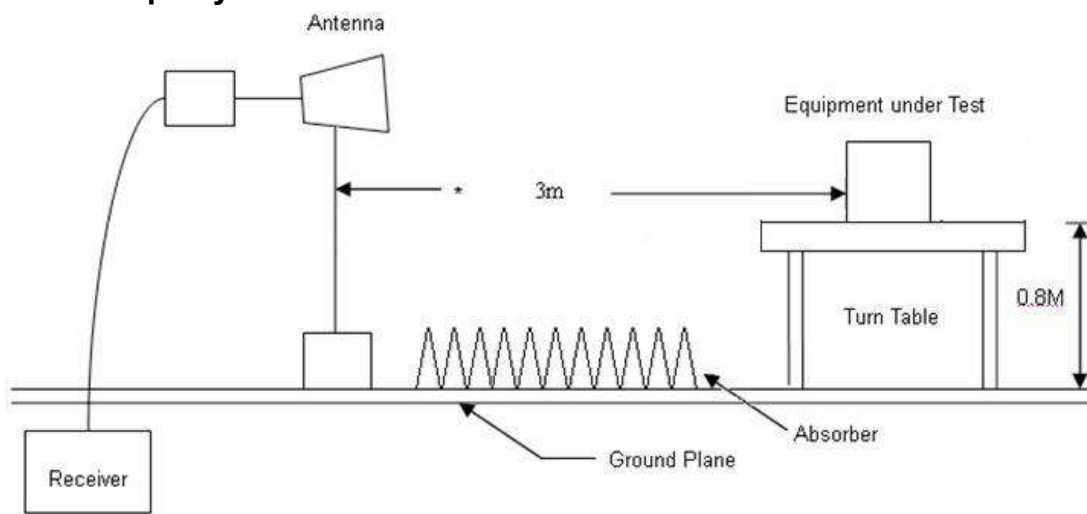
9.2. Test Procedure

According to FCC KDB 987594 D02 clause II.E, the test measurement procedure shall refer to KDB 789033.

For radiated measurement:

- * Refer as FCC KDB 789033 D02 clause II A.1.F " Antenna-port Conducted versus Radiated Testing"
- * Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz.
- * Refer as FCC KDB 412172 D01 clause 2.2 for EIRP calculation.

9.3. Test Setup Layout



The test is the final test result, It includes antenna /cable loss factor & FSL factor.
The EIRP calculation refer to "KDB 412172 D01 Determining ERP and EIRP v01r01"

EIRP Formula :

$$\text{EIRP(dBm)} = \text{PR(dBm)} + \text{LP(FSL factor)}$$

where;

PR(dBm) : Power measurement level include antenna/cable loss

LP : Free Space Loss(dB)

PR Formula :

$$\text{PR(dBm)} = \text{P Meas(dBm)} - \text{GR(dBi)} + \text{LC(dB)} - \text{GAMP(dB)}$$

where;

P Meas(dBm) : Power measurement level

GR(dBi) : Gain of the receive(measurement) antenna (dBi)

LC(dB) : Measurement cable loss (dB)

GAMP(dB): value of external amplification (if used), in dB.

LP(FSL factor) Formula :

$$\text{LP(dB)} = 20 \log F + 20 \log D - 27.54$$

where;



F(MHz) : EUT center frequency
D(m) : Measurement distance

For Example:

Test mode 802.11AX HE20 5955MHz EIRP measurement

PR Formula :

$$PR(\text{dBm}) = -6.87 - 11.6 + 8.62 - 35.02 = -44.87$$

LP(FSL factor) Formula :

$$LP(\text{dB}) = 20\log(5955) + 20\log(3) - 27.54 = 57.5$$

EIRP Formula :

$$EIRP(\text{dBm}) = -44.87 + 57.5 = 12.63$$



9.4. Test Result and Data

Non-Beamforming
U-NII-5

Modulation Type	Data Rate	Power Setting	Channel	Frequency (MHz)	PR (dBm/MHz)	Lp (dB)	E.I.R.P (dBm)	E.I.R.P (mW)	E.I.R.P Limit (dBm)
11a	6 Mbps	11.5	1	5955	-42.55	57.54	14.99	31.55	30.00
11a	6 Mbps	11	45	6175	-42.75	57.86	15.11	32.40	30.00
11a	6 Mbps	10.5	93	6415	-42.88	58.19	15.31	33.93	30.00
11ax HE20	NSS1-MCS0	12	1	5955	-42.37	57.54	15.17	32.89	30.00
11ax HE20	NSS1-MCS0	11.5	45	6175	-41.65	57.86	16.21	41.74	30.00
11ax HE20	NSS1-MCS0	11	93	6415	-42.03	58.19	16.16	41.27	30.00
11ax HE40	NSS1-MCS0	15	3	5965	-39.36	57.55	18.19	65.99	30.00
11ax HE40	NSS1-MCS0	14	43	6165	-39.10	57.84	18.74	74.84	30.00
11ax HE40	NSS1-MCS0	13.5	91	6405	-40.10	58.17	18.07	64.16	30.00
11ax HE80	NSS1-MCS0	18.5	7	5985	-37.05	57.58	20.53	113.08	30.00
11ax HE80	NSS1-MCS0	17	39	6145	-36.57	57.81	21.24	133.13	30.00
11ax HE80	NSS1-MCS0	16.5	87	6385	-36.76	58.15	21.39	137.58	30.00
11ax HE160	NSS1-MCS0	20.5	15	6025	-33.92	57.64	23.72	235.59	30.00
11ax HE160	NSS1-MCS0	20	47	6185	-33.53	57.87	24.34	271.60	30.00
11ax HE160	NSS1-MCS0	19.5	79	6345	-33.95	58.09	24.14	259.48	30.00
11be EHT20	NSS1-MCS0	12	1	5955	-41.99	57.54	15.55	35.89	30.00
11be EHT20	NSS1-MCS0	11.5	45	6175	-42.29	57.86	15.57	36.02	30.00
11be EHT20	NSS1-MCS0	11	93	6415	-42.16	58.19	16.03	40.05	30.00
11be EHT40	NSS1-MCS0	15	3	5965	-38.87	57.55	18.68	73.87	30.00
11be EHT40	NSS1-MCS0	14	43	6165	-39.23	57.84	18.61	72.63	30.00
11be EHT40	NSS1-MCS0	13.5	91	6405	-39.60	58.17	18.57	71.99	30.00
11be EHT80	NSS1-MCS0	18.5	7	5985	-36.28	57.58	21.30	135.01	30.00
11be EHT80	NSS1-MCS0	17	39	6145	-36.37	57.81	21.44	139.41	30.00
11be EHT80	NSS1-MCS0	16.5	87	6385	-36.58	58.15	21.57	143.41	30.00
11be EHT160	NSS1-MCS0	20.5	15	6025	-33.96	57.64	23.68	233.43	30.00
11be EHT160	NSS1-MCS0	20	47	6185	-33.80	57.87	24.07	255.22	30.00
11be EHT160	NSS1-MCS0	19.5	79	6345	-34.20	58.09	23.89	244.97	30.00
11be EHT320	NSS1-MCS0	22	31	6105	-32.15	57.76	25.61	363.59	30.00
11be EHT320	NSS1-MCS0	22.5	63	6265	-30.19	57.98	27.79	601.29	30.00

Non-Beamforming
U-NII-6

Modulation Type	Data Rate	Power Setting	Channel	Frequency (MHz)	PR (dBm/MHz)	Lp (dB)	E.I.R.P (dBm)	E.I.R.P (mW)	E.I.R.P Limit (dBm)
11a	6 Mbps	10.5	97	6435	-43.10	58.21	15.11	32.46	30.00
11a	6 Mbps	11	105	6475	-43.34	58.27	14.93	31.10	30.00
11a	6 Mbps	11.5	113	6515	-42.94	58.32	15.38	34.52	30.00
11ax HE20	NSS1-MCS0	10.5	97	6435	-42.97	58.21	15.24	33.45	30.00
11ax HE20	NSS1-MCS0	11.5	105	6475	-42.33	58.27	15.94	39.24	30.00
11ax HE20	NSS1-MCS0	12	113	6515	-42.48	58.32	15.84	38.38	30.00
11ax HE40	NSS1-MCS0	14	99	6445	-40.02	58.23	18.21	66.17	30.00
11ax HE40	NSS1-MCS0	14.5	107	6485	-39.82	58.28	18.46	70.16	30.00
11ax HE80	NSS1-MCS0	17	103	6465	-37.18	58.25	21.07	128.05	30.00
11be EHT20	NSS1-MCS0	10.5	97	6435	-42.63	58.21	15.58	36.17	30.00
11be EHT20	NSS1-MCS0	11.5	105	6475	-42.34	58.27	15.93	39.15	30.00
11be EHT20	NSS1-MCS0	12	113	6515	-42.03	58.32	16.29	42.57	30.00
11be EHT40	NSS1-MCS0	14	99	6445	-39.72	58.23	18.51	70.91	30.00
11be EHT40	NSS1-MCS0	14.5	107	6485	-39.81	58.28	18.47	70.32	30.00
11be EHT80	NSS1-MCS0	17	103	6465	-36.86	58.25	21.39	137.84	30.00

Non-Beamforming
U-NII-7

Modulation Type	Data Rate	Power Setting	Channel	Frequency (MHz)	PR (dBm/MHz)	Lp (dB)	E.I.R.P (dBm)	E.I.R.P (mW)	E.I.R.P Limit (dBm)
11a	6 Mbps	11.5	117	6535	-42.93	58.35	15.42	34.81	30.00
11a	6 Mbps	12.5	153	6715	-43.98	58.58	14.60	28.86	30.00
11a	6 Mbps	10.5	181	6855	-43.04	58.76	15.72	37.35	30.00
11ax HE20	NSS1-MCS0	12	117	6535	-43.10	58.35	15.25	33.48	30.00
11ax HE20	NSS1-MCS0	13	153	6715	-43.18	58.58	15.40	34.70	30.00
11ax HE20	NSS1-MCS0	10.5	181	6855	-44.43	58.76	14.33	27.12	30.00
11ax HE40	NSS1-MCS0	15	123	6565	-39.83	58.39	18.56	71.73	30.00
11ax HE40	NSS1-MCS0	16	155	6725	-39.97	58.60	18.63	72.88	30.00
11ax HE40	NSS1-MCS0	14	179	6845	-41.25	58.75	17.50	56.23	30.00
11ax HE80	NSS1-MCS0	18	135	6625	-37.01	58.47	21.46	139.83	30.00
11ax HE80	NSS1-MCS0	18.5	151	6705	-38.49	58.57	20.08	101.87	30.00
11ax HE80	NSS1-MCS0	18	167	6785	-37.21	58.67	21.46	140.07	30.00
11ax HE160	NSS1-MCS0	21.5	143	6665	-34.22	58.52	24.30	269.06	30.00
11be EHT20	NSS1-MCS0	12	117	6535	-42.06	58.35	16.29	42.53	30.00
11be EHT20	NSS1-MCS0	13	153	6715	-42.94	58.58	15.64	36.67	30.00
11be EHT20	NSS1-MCS0	10.5	181	6855	-43.04	58.76	15.72	37.35	30.00
11be EHT40	NSS1-MCS0	15	123	6565	-39.81	58.39	18.58	72.06	30.00
11be EHT40	NSS1-MCS0	16	155	6725	-39.68	58.60	18.92	77.92	30.00
11be EHT40	NSS1-MCS0	14	179	6845	-39.89	58.75	18.86	76.91	30.00
11be EHT80	NSS1-MCS0	18	135	6625	-36.98	58.47	21.49	140.80	30.00
11be EHT80	NSS1-MCS0	18.5	151	6705	-37.61	58.57	20.96	124.75	30.00
11be EHT80	NSS1-MCS1	18	167	6785	-36.74	58.67	21.93	156.08	30.00
11be EHT160	NSS1-MCS0	21.5	143	6665	-34.03	58.52	24.49	281.09	30.00

Non-Beamforming
U-NII-8

Modulation Type	Data Rate	Power Setting	Channel	Frequency (MHz)	PR (dBm/MHz)	Lp (dB)	E.I.R.P (dBm)	E.I.R.P (mW)	E.I.R.P Limit (dBm)
11a	6 Mbps	10	189	6895	-43.36	58.81	15.45	35.10	30.00
11a	6 Mbps	8	213	7015	-43.73	58.96	15.23	33.37	30.00
11a	6 Mbps	7.5	229	7095	-43.98	59.06	15.08	32.22	30.00
11ax HE20	NSS1-MCS0	10.5	189	6895	-44.66	58.81	14.15	26.02	30.00
11ax HE20	NSS1-MCS0	8.5	213	7015	-44.34	58.96	14.62	28.99	30.00
11ax HE20	NSS1-MCS0	7.5	229	7095	-43.64	59.06	15.42	34.85	30.00
11ax HE40	NSS1-MCS0	14	195	6925	-40.81	58.85	18.04	63.69	30.00
11ax HE40	NSS1-MCS0	12	211	7005	-41.43	58.95	17.52	56.50	30.00
11ax HE40	NSS1-MCS0	10.5	227	7085	-40.67	59.05	18.38	68.85	30.00
11ax HE80	NSS1-MCS0	18	199	6945	-37.22	58.88	21.66	146.42	30.00
11ax HE80	NSS1-MCS0	14.5	215	7025	-39.10	58.98	19.88	97.17	30.00
11ax HE160	NSS1-MCS0	18	207	6985	-36.05	58.93	22.88	193.90	30.00
11be EHT20	NSS1-MCS0	10.5	189	6895	-42.90	58.81	15.91	39.02	30.00
11be EHT20	NSS1-MCS0	8.5	213	7015	-43.38	58.96	15.58	36.17	30.00
11be EHT20	NSS1-MCS0	7.5	229	7095	-43.36	59.06	15.70	37.17	30.00
11be EHT40	NSS1-MCS0	14	195	6925	-40.64	58.85	18.21	66.23	30.00
11be EHT40	NSS1-MCS0	12	211	7005	-41.34	58.95	17.61	57.68	30.00
11be EHT40	NSS1-MCS0	10.5	227	7085	-40.51	59.05	18.54	71.44	30.00
11be EHT80	NSS1-MCS0	18	199	6945	-37.60	58.88	21.28	134.15	30.00
11be EHT80	NSS1-MCS0	14.5	215	7025	-37.82	58.98	21.16	130.48	30.00
11be EHT160	NSS1-MCS0	18	207	6985	-35.79	58.93	23.14	205.86	30.00



Non-Beamforming

Measured equivalent isotropically radiated power Straddle Channel (Band U-NII 5 & Band U-NII 6 & U-NII 7) RF Output Power(dBm)									
Channel	Power Setting	Modulation Type	Data Rate	Frequency (MHz)	PR (dBm/MHz)	Lp (dB)	E.I.R.P. (dBm)	E.I.R.P. (mW)	EIRP Limit (dBm)
95	21.5	11be EHT320	NSS1-MCS0	6425	-30.65	58.20	27.55	568.84	30

Measured equivalent isotropically radiated power Straddle Channel (Band U-NII 6 & U-NII 7) RF Output Power(dBm)									
Channel	Power Setting	Modulation Type	Data Rate	Frequency (MHz)	PR (dBm/MHz)	Lp (dB)	E.I.R.P. (dBm)	E.I.R.P. (mW)	EIRP Limit (dBm)
115	15	11ax HE40	NSS1-MCS0	6525	-39.79	58.33	18.54	71.52	30.00
119	18	11ax HE80	NSS1-MCS0	6545	-37.17	58.36	21.19	131.54	30.00
111	20	11ax HE160	NSS1-MCS0	6505	-34.49	58.31	23.82	240.84	30.00
115	15	11be EHT40	NSS1-MCS0	6525	-39.49	58.33	18.84	76.63	30.00
119	18	11be EHT80	NSS1-MCS0	6545	-36.29	58.36	22.07	161.09	30.00
111	20	11be EHT160	NSS1-MCS0	6505	-34.13	58.31	24.18	261.66	30.00
127	21	11be EHT320	NSS1-MCS0	6585	-31.42	58.41	26.99	500.44	30.00



Measured equivalent isotropically radiated power
Straddle Channel (Band U-NII 7 & U-NII 8)
RF Output Power(dBm)

Channel	Power Setting	Modulation Type	Data Rate	Frequency (MHz)	PR (dBm/MHz)	Lp (dB)	E.I.R.P. (dBm)	E.I.R.P. (mW)	EIRP Limit (dBm)
185	10	11a	6 Mbps	6875	-43.52	58.79	15.27	33.63	30.00
185	10.5	11ax HE20	NSS1-MCS0	6875	-44.64	58.79	14.15	25.99	30.00
187	14	11ax HE40	NSS1-MCS0	6885	-41.15	58.80	17.65	58.22	30.00
183	17	11ax HE80	NSS1-MCS0	6865	-38.29	58.78	20.49	111.82	30.00
175	20	11ax HE160	NSS1-MCS0	6825	-35.73	58.72	22.99	199.27	30.00
185	10.5	11be EHT20	NSS1-MCS0	6875	-42.87	58.79	15.92	39.07	30.00
187	14	11be EHT40	NSS1-MCS0	6885	-39.54	58.80	19.26	84.34	30.00
183	17	11be EHT80	NSS1-MCS0	6865	-36.91	58.78	21.87	153.65	30.00
175	20	11be EHT160	NSS1-MCS0	6825	-34.53	58.72	24.19	262.69	30.00
159	22	11be EHT320	NSS1-MCS0	6745	-31.81	58.62	26.81	479.96	30.00
191	21	11be EHT320	NSS1-MCS0	6905	-32.40	58.83	26.43	439.11	30.00

Beamforming
U-NII-5

Modulation Type	Data Rate	Power Setting	Channel	Frequency (MHz)	PR (dBm/MHz)	Lp (dB)	E.I.R.P (dBm)	E.I.R.P (mW)	E.I.R.P Limit (dBm)
11ax HE20	NSS1-MCS0	8	1	5955	-45.49	57.54	15.06	32.06	30.00
11ax HE20	NSS1-MCS0	8	45	6175	-45.00	57.86	15.87	38.59	30.00
11ax HE20	NSS1-MCS0	7	93	6415	-45.34	58.19	15.86	38.52	30.00
11ax HE40	NSS1-MCS0	11.5	3	5965	-42.95	57.55	17.61	57.74	30.00
11ax HE40	NSS1-MCS0	11	43	6165	-42.21	57.84	18.64	73.13	30.00
11ax HE40	NSS1-MCS0	10.5	91	6405	-43.14	58.17	18.04	63.72	30.00
11ax HE80	NSS1-MCS0	15	7	5985	-40.36	57.58	20.23	105.53	30.00
11ax HE80	NSS1-MCS0	13.5	39	6145	-40.02	57.81	20.80	120.31	30.00
11ax HE80	NSS1-MCS0	13	87	6385	-40.10	58.15	21.06	127.52	30.00
11ax HE160	NSS1-MCS0	17	15	6025	-37.07	57.64	23.58	228.12	30.00
11ax HE160	NSS1-MCS0	16	47	6185	-37.09	57.87	23.79	239.29	30.00
11ax HE160	NSS1-MCS0	16	79	6345	-37.12	58.09	23.98	250.10	30.00
11be EHT20	NSS1-MCS0	8	1	5955	-45.50	57.54	15.05	31.99	30.00
11be EHT20	NSS1-MCS0	8	45	6175	-45.75	57.86	15.12	32.47	30.00
11be EHT20	NSS1-MCS0	7	93	6415	-45.16	58.19	16.02	39.99	30.00
11be EHT40	NSS1-MCS0	11.5	3	5965	-42.11	57.55	18.45	70.06	30.00
11be EHT40	NSS1-MCS0	11	43	6165	-42.40	57.84	18.45	70.00	30.00
11be EHT40	NSS1-MCS0	10.5	91	6405	-42.71	58.17	18.47	70.35	30.00
11be EHT80	NSS1-MCS0	15	7	5985	-39.52	57.58	21.07	128.05	30.00
11be EHT80	NSS1-MCS0	13.5	39	6145	-39.81	57.81	21.01	126.27	30.00
11be EHT80	NSS1-MCS0	13	87	6385	-39.97	58.15	21.19	131.39	30.00
11be EHT160	NSS1-MCS0	17	15	6025	-37.11	57.64	23.54	226.03	30.00
11be EHT160	NSS1-MCS0	16	47	6185	-36.97	57.87	23.91	245.99	30.00
11be EHT160	NSS1-MCS0	16	79	6345	-37.56	58.09	23.54	226.00	30.00
11be EHT320	NSS1-MCS0	21.5	31	6105	-35.68	57.76	25.09	322.56	30.00
11be EHT320	NSS1-MCS0	22	63	6265	-33.60	57.98	27.39	548.38	30.00

Beamforming
U-NII-6

Modulation Type	Data Rate	Power Setting	Channel	Frequency (MHz)	PR (dBm/MHz)	Lp (dB)	E.I.R.P (dBm)	E.I.R.P (mW)	E.I.R.P Limit (dBm)
11ax HE20	NSS1-MCS0	6	97	6435	-46.10	58.21	15.12	32.53	30.00
11ax HE20	NSS1-MCS0	7	105	6475	-45.73	58.27	15.55	35.87	30.00
11ax HE20	NSS1-MCS0	8	113	6515	-45.84	58.32	15.49	35.41	30.00
11ax HE40	NSS1-MCS0	10.5	99	6445	-43.24	58.23	18.00	63.05	30.00
11ax HE40	NSS1-MCS0	11	107	6485	-43.26	58.28	18.03	63.54	30.00
11ax HE80	NSS1-MCS0	13.5	103	6465	-40.77	58.25	20.49	112.04	30.00
11be EHT20	NSS1-MCS0	6	97	6435	-46.00	58.21	15.22	33.29	30.00
11be EHT20	NSS1-MCS0	7	105	6475	-45.73	58.27	15.55	35.87	30.00
11be EHT20	NSS1-MCS0	8	113	6515	-45.41	58.32	15.92	39.09	30.00
11be EHT40	NSS1-MCS0	10.5	99	6445	-43.03	58.23	18.21	66.17	30.00
11be EHT40	NSS1-MCS0	11	107	6485	-43.13	58.28	18.16	65.47	30.00
11be EHT80	NSS1-MCS0	13.5	103	6465	-40.25	58.25	21.01	126.29	30.00

U-NII-7

Modulation Type	Data Rate	Power Setting	Channel	Frequency (MHz)	PR (dBm/MHz)	Lp (dB)	E.I.R.P (dBm)	E.I.R.P (mW)	E.I.R.P Limit (dBm)
11ax HE20	NSS1-MCS0	8.5	117	6535	-46.15	58.35	15.21	33.17	30.00
11ax HE20	NSS1-MCS0	10	153	6715	-46.63	58.58	14.96	31.36	30.00
11ax HE20	NSS1-MCS0	7.5	181	6855	-47.46	58.76	14.31	26.99	30.00
11ax HE40	NSS1-MCS0	11.5	123	6565	-43.14	58.39	18.26	66.94	30.00
11ax HE40	NSS1-MCS0	13	155	6725	-43.01	58.60	18.60	72.38	30.00
11ax HE40	NSS1-MCS0	11	179	6845	-44.54	58.75	17.22	52.72	30.00
11ax HE80	NSS1-MCS0	14.5	135	6625	-40.28	58.47	21.20	131.71	30.00
11ax HE80	NSS1-MCS0	15	151	6705	-40.38	58.57	21.20	131.84	30.00
11ax HE80	NSS1-MCS0	14.5	167	6785	-41.75	58.67	19.93	98.48	30.00
11ax HE160	NSS1-MCS0	18	143	6665	-37.25	58.52	24.28	267.82	30.00
11be EHT20	NSS1-MCS0	8.5	117	6535	-45.35	58.35	16.01	39.88	30.00
11be EHT20	NSS1-MCS0	10	153	6715	-46.26	58.58	15.33	34.15	30.00
11be EHT20	NSS1-MCS0	7.5	181	6855	-46.50	58.76	15.27	33.67	30.00
11be EHT40	NSS1-MCS0	11.5	123	6565	-43.14	58.39	18.26	66.94	30.00
11be EHT40	NSS1-MCS0	13	155	6725	-42.73	58.60	18.88	77.20	30.00
11be EHT40	NSS1-MCS0	11	179	6845	-43.28	58.75	18.48	70.47	30.00
11be EHT80	NSS1-MCS0	14.5	135	6625	-40.45	58.47	21.03	126.65	30.00
11be EHT80	NSS1-MCS0	15	151	6705	-40.87	58.57	20.71	117.77	30.00
11be EHT80	NSS1-MCS0	14.5	167	6785	-39.87	58.67	21.81	151.82	30.00
11be EHT160	NSS1-MCS0	18	143	6665	-37.57	58.52	23.96	248.80	30.00

Beamforming
U-NII-8

Modulation Type	Data Rate	Power Setting	Channel	Frequency (MHz)	PR (dBm/MHz)	Lp (dB)	E.I.R.P (dBm)	E.I.R.P (mW)	E.I.R.P Limit (dBm)
11ax HE20	NSS1-MCS0	7	189	6895	-48.20	58.81	13.62	23.03	30.00
11ax HE20	NSS1-MCS0	5	213	7015	-47.79	58.96	14.18	26.20	30.00
11ax HE20	NSS1-MCS0	4.5	229	7095	-47.14	59.06	14.93	31.13	30.00
11ax HE40	NSS1-MCS0	10	195	6925	-43.88	58.85	17.98	62.82	30.00
11ax HE40	NSS1-MCS0	8.5	211	7005	-44.62	58.95	17.34	54.21	30.00
11ax HE40	NSS1-MCS0	7	227	7085	-44.22	59.05	17.84	60.80	30.00
11ax HE80	NSS1-MCS0	14.5	199	6945	-40.29	58.88	21.60	144.41	30.00
11ax HE80	NSS1-MCS0	11	215	7025	-42.61	58.98	19.38	86.60	30.00
11ax HE160	NSS1-MCS0	14.5	207	6985	-39.07	58.93	22.87	193.45	30.00
11be EHT20	NSS1-MCS0	7	189	6895	-46.18	58.81	15.64	36.67	30.00
11be EHT20	NSS1-MCS0	5	213	7015	-46.66	58.96	15.31	33.99	30.00
11be EHT20	NSS1-MCS0	4.5	229	7095	-46.48	59.06	15.59	36.24	30.00
11be EHT40	NSS1-MCS0	10	195	6925	-43.85	58.85	18.01	63.25	30.00
11be EHT40	NSS1-MCS0	8.5	211	7005	-44.90	58.95	17.06	50.82	30.00
11be EHT40	NSS1-MCS0	7	227	7085	-44.01	59.05	18.05	63.81	30.00
11be EHT80	NSS1-MCS0	14.5	199	6945	-40.76	58.88	21.13	129.59	30.00
11be EHT80	NSS1-MCS0	11	215	7025	-41.37	58.98	20.62	115.22	30.00
11be EHT160	NSS1-MCS0	14.5	207	6985	-39.00	58.93	22.94	196.60	30.00



Beamforming

Measured equivalent isotropically radiated power
Straddle Channel (Band U-NII 5 & Band U-NII 6 & U-NII 7)
RF Output Power(dBm)

Channel	Power Setting	Modulation Type	Data Rate	Frequency (MHz)	PR (dBm/MHz)	Lp (dB)	E.I.R.P. (dBm)	E.I.R.P. (mW)	EIRP Limit (dBm)
95	21	11be EHT320	NSS1-MCS0	6425	-33.82	58.20	27.39	548.26	30.00

Measured equivalent isotropically radiated power
Straddle Channel (Band U-NII 6 & U-NII 7)
RF Output Power(dBm)

Channel	Power Setting	Modulation Type	Data Rate	Frequency (MHz)	PR (dBm/MHz)	Lp (dB)	E.I.R.P. (dBm)	E.I.R.P. (mW)	EIRP Limit (dBm)
115	11.5	11ax HE40	NSS1-MCS0	6525	-43.27	58.33	18.07	64.18	30.00
119	14.5	11ax HE80	NSS1-MCS0	6545	-40.42	58.36	20.95	124.47	30.00
111	16	11ax HE160	NSS1-MCS0	6505	-37.77	58.31	23.55	226.33	30.00
115	11.5	11be EHT40	NSS1-MCS0	6525	-42.79	58.33	18.55	71.68	30.00
119	14.5	11be EHT80	NSS1-MCS0	6545	-39.81	58.36	21.56	143.24	30.00
111	16	11be EHT160	NSS1-MCS0	6505	-37.45	58.31	23.87	243.63	30.00
127	20.5	11be EHT320	NSS1-MCS0	6585	-34.72	58.41	26.70	468.12	30.00

Measured equivalent isotropically radiated power
Straddle Channel (Band U-NII 7 & U-NII 8)
RF Output Power(dBm)

Channel	Power Setting	Modulation Type	Data Rate	Frequency (MHz)	PR (dBm/MHz)	Lp (dB)	E.I.R.P. (dBm)	E.I.R.P. (mW)	EIRP Limit (dBm)
185	7.5	11ax HE20	NSS1-MCS0	6875	-47.86	58.79	13.94	24.76	30.00
187	10.5	11ax HE40	NSS1-MCS0	6885	-44.58	58.80	17.23	52.85	30.00
183	13.5	11ax HE80	NSS1-MCS0	6865	-41.64	58.78	20.15	103.40	30.00
175	16	11ax HE160	NSS1-MCS0	6825	-38.98	58.72	22.75	188.56	30.00
185	8.5	11be EHT20	NSS1-MCS0	6875	-46.41	58.79	15.39	34.58	30.00
187	11.5	11be EHT40	NSS1-MCS0	6885	-42.64	58.80	19.17	82.61	30.00
183	14.5	11be EHT80	NSS1-MCS0	6865	-40.26	58.78	21.53	142.08	30.00
175	17.5	11be EHT160	NSS1-MCS0	6825	-37.97	58.72	23.76	237.93	30.00
159	21.5	11be EHT320	NSS1-MCS0	6745	-34.90	58.62	26.73	471.20	30.00
191	20.5	11be EHT320	NSS1-MCS0	6905	-35.48	58.83	26.36	432.09	30.00



10. Peak Power Spectral Density (E.I.R.P.)

10.1. Test Limit

Frequency Band		Limit
☒	5.925~6.425GHz	
	Operating Mode	
	☐ For standard power access point and fixed client device :	e.i.r.p PSD < 23 dBm/MHz.
	☒ For indoor access point :	e.i.r.p PSD < 5 dBm/MHz.
	☐ For subordinate device control of an indoor access point :	e.i.r.p PSD < 5 dBm/MHz.
	☐ For client device control of a standard power access point:	e.i.r.p PSD < 17 dBm/MHz.
	☐ For client device control of an indoor access point:	e.i.r.p PSD < -1 dBm/MHz.
☒	☐ For very low power devices	e.i.r.p PSD < -5 dBm/MHz.
	6.425-6.525 GHz	
	Operating Mode	
☒	☒ For indoor access point	e.i.r.p PSD < 5 dBm/MHz.
	☐ For client device control of an indoor access point ::	e.i.r.p PSD < -1 dBm/MHz.
☒	6.525~6.875 GHz	
	Operating Mode	
	☐ For standard power access point and fixed client device :	e.i.r.p PSD < 23 dBm/MHz.
	☒ For indoor access point :	e.i.r.p PSD < 5 dBm/MHz.
	☐ For subordinate device control of an indoor access point :	e.i.r.p PSD < 5 dBm/MHz.
	☐ For client device control of a standard power access point:	e.i.r.p PSD < 17 dBm/MHz.
	☐ For client device control of an indoor access point:	e.i.r.p PSD < -1 dBm/MHz.
☒	☐ For very low power devices	e.i.r.p PSD < -5 dBm/MHz.
	6.875-7.125 GHz	
	Operating Mode	
☒	☒ For indoor access point	e.i.r.p PSD < 5 dBm/MHz.
	☐ For client device control of an indoor access point ::	e.i.r.p PSD < -1 dBm/MHz.



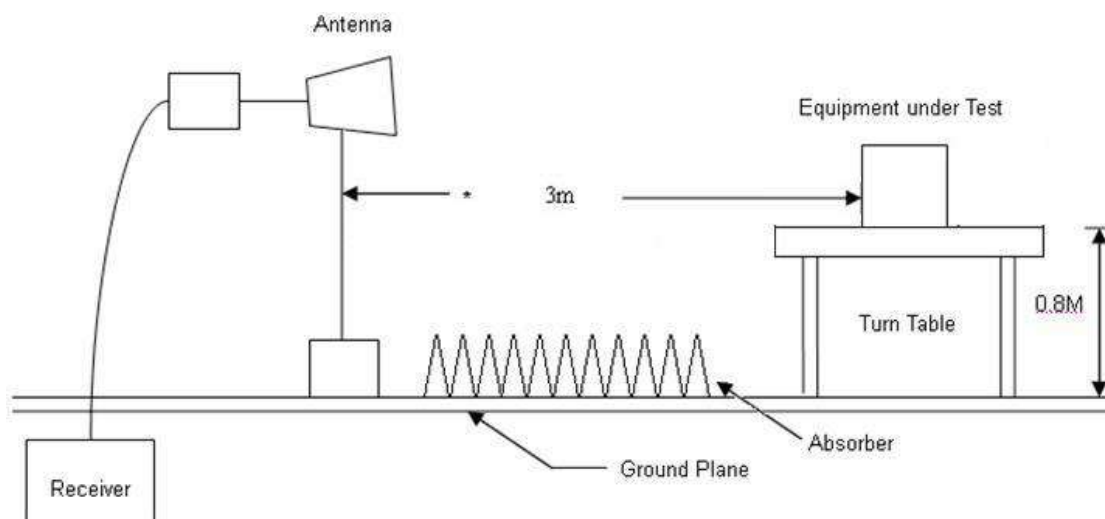
10.2.Test Procedure

According to FCC KDB 987594 D02 clause II.F, the measurement procedure shall refer to KDB 789033. Peak power spectral density procedures that the same method as used to determine the conducted output power shall be used to determine the peak power spectral density and use the peak search function on the spectrum analyzer to find the peak of the spectrum. For the peak power spectral density shall be measured using below options:

For radiated measurement:

- * Refer as FCC KDB 789033 D02 clause II A.1.F " Antenna-port Conducted versus Radiated Testing"
- * Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz.
- * Refer as FCC KDB 412172 D01 clause 2.2 for EIRP calculation.

10.3.Test Setup Layout



The test is the final test result, It includes antenna /cable loss factor & FSL factor.
The EIRP calculation refer to "KDB 412172 D01 Determining ERP and EIRP v01r01"
EIRP PSD Formula :
$$\text{EIRP PSD(dBm)} = \text{PR(dBm)} + \text{LP(FSL factor)}$$

where;
PR(dBm) : Power measurement level include antenna/cable loss
LP : Free Space Loss(dB)



PR Formula :

$$PR(\text{dBm}) = P \text{ Meas}(\text{dBm}) - GR(\text{dBi}) + LC(\text{dB}) - G_{AMP}(\text{dB})$$

where;

P Meas(dBm) : PSD measurement level

GR(dBi) : Gain of the receive(measurement) antenna (dBi)

LC(dB) : Measurement cable loss (dB)

G_{AMP}(dB): value of external amplification (if used), in dB.

LP(FSL factor) Formula :

$$LP(\text{dB}) = 20 \log F + 20 \log D - 27.54$$

where;

F(MHz) : EUT center frequency

D(m) : Measurement distance

For Example:

Test mode 802.11AX HE20 5955MHz EIRP PSD measurement

PR Formula :

$$PR(\text{dBm}) = -20.6 - 11.6 + 8.62 - 35.02 = -58.6$$

LP(FSL factor) Formula :

$$LP(\text{dB}) = 20 \log(5955) + 20 \log(3) - 27.54 = 57.5$$

EIRP PSD Formula :

$$EIRP \text{ PSD}(\text{dBm}) = -58.63 + 57.5 = -1.10$$

**10.4. Test Result and Data**

Non-Beamforming

U-NII-5

Modulation Type	Data Rate	Channel	Frequency (MHz)	Measured value (dBm/MHz)	PR (dBm/MHz)	Lp (dB)	E.I.R.P PSD (dBm/MHz)	E.I.R.P PSD Limit (dBm/MHz)
11a	6 Mbps	1	5955	-8.92	-52.83	57.54	4.71	5.00
11a	6 Mbps	45	6175	-9.98	-53.27	57.86	4.59	5.00
11a	6 Mbps	93	6415	-11.07	-53.46	58.19	4.73	5.00
11be EHT20	NSS1-MCS0	1	5955	-9.07	-52.98	57.54	4.56	5.00
11be EHT20	NSS1-MCS0	45	6175	-10.06	-53.35	57.86	4.51	5.00
11be EHT20	NSS1-MCS0	93	6415	-11.14	-53.53	58.19	4.66	5.00
11be EHT40	NSS1-MCS0	3	5965	-8.72	-52.63	57.55	4.92	5.00
11be EHT40	NSS1-MCS0	43	6165	-9.99	-53.28	57.84	4.56	5.00
11be EHT40	NSS1-MCS0	91	6405	-11.09	-53.58	58.17	4.59	5.00
11be EHT80	NSS1-MCS0	7	5985	-8.90	-52.81	57.58	4.77	5.00
11be EHT80	NSS1-MCS0	39	6145	-9.90	-53.39	57.81	4.42	5.00
11be EHT80	NSS1-MCS0	87	6385	-11.35	-53.74	58.15	4.41	5.00
11be EHT160	NSS1-MCS0	15	6025	-9.32	-53.31	57.64	4.33	5.00
11be EHT160	NSS1-MCS0	47	6185	-10.09	-53.38	57.87	4.49	5.00
11be EHT160	NSS1-MCS0	79	6345	-10.93	-53.62	58.09	4.47	5.00
11be EHT320	NSS1-MCS0	31	6105	-10.13	-53.62	57.76	4.14	5.00
11be EHT320	NSS1-MCS0	63	6265	-10.08	-53.07	57.98	4.91	5.00

U-NII-6

Modulation Type	Data Rate	Channel	Frequency (MHz)	Measured value (dBm/MHz)	PR (dBm/MHz)	Lp (dB)	E.I.R.P PSD (dBm/MHz)	E.I.R.P PSD Limit (dBm/MHz)
11a	6 Mbps	97	6435	-11.30	-53.69	58.21	4.52	5.00
11a	6 Mbps	105	6475	-11.12	-53.61	58.27	4.66	5.00
11a	6 Mbps	113	6515	-11.27	-53.62	58.32	4.70	5.00
11be EHT20	NSS1-MCS0	97	6435	-11.45	-53.84	58.21	4.37	5.00
11be EHT20	NSS1-MCS0	105	6475	-11.14	-53.63	58.27	4.64	5.00
11be EHT20	NSS1-MCS0	113	6515	-11.22	-53.57	58.32	4.75	5.00
11be EHT40	NSS1-MCS0	99	6445	-10.87	-53.36	58.23	4.87	5.00
11be EHT40	NSS1-MCS0	107	6485	-11.08	-53.57	58.28	4.71	5.00
11be EHT80	NSS1-MCS0	103	6465	-10.94	-53.43	58.25	4.82	5.00

Non-Beamforming
U-NII-7

Modulation Type	Data Rate	Channel	Frequency (MHz)	Measured value (dBm/MHz)	PR (dBm/MHz)	Lp (dB)	E.I.R.P PSD (dBm/MHz)	E.I.R.P PSD Limit (dBm/MHz)
11a	6 Mbps	117	6535	-11.23	-53.58	58.35	4.77	5.00
11a	6 Mbps	153	6715	-11.30	-53.85	58.58	4.73	5.00
11a	6 Mbps	181	6855	-11.42	-53.87	58.76	4.89	5.00
11be EHT20	NSS1-MCS0	117	6535	-11.09	-53.44	58.35	4.91	5.00
11be EHT20	NSS1-MCS0	153	6715	-11.18	-53.73	58.58	4.85	5.00
11be EHT20	NSS1-MCS0	181	6855	-11.40	-53.85	58.76	4.91	5.00
11be EHT40	NSS1-MCS0	123	6565	-11.46	-53.81	58.39	4.58	5.00
11be EHT40	NSS1-MCS0	155	6725	-11.40	-53.95	58.60	4.65	5.00
11be EHT40	NSS1-MCS0	179	6845	-11.77	-54.22	58.75	4.53	5.00
11be EHT80	NSS1-MCS0	135	6625	-11.54	-53.89	58.47	4.58	5.00
11be EHT80	NSS1-MCS0	151	6705	-11.48	-54.03	58.57	4.54	5.00
11be EHT80	NSS1-MCS0	167	6785	-11.58	-54.03	58.67	4.64	5.00
11be EHT160	NSS1-MCS0	143	6665	-11.15	-53.70	58.52	4.82	5.00

U-NII-8

Modulation Type	Data Rate	Channel	Frequency (MHz)	Measured value (dBm/MHz)	PR (dBm/MHz)	Lp (dB)	E.I.R.P PSD (dBm/MHz)	E.I.R.P PSD Limit (dBm/MHz)
11a	6 Mbps	189	6895	-11.69	-54.14	58.81	4.67	5.00
11a	6 Mbps	213	7015	-11.48	-54.31	58.96	4.65	5.00
11a	6 Mbps	229	7095	-11.33	-54.16	59.06	4.90	5.00
11a	6 Mbps	233	7115	-11.78	-54.61	59.09	4.48	5.00
11be EHT20	NSS1-MCS0	189	6895	-11.77	-54.22	58.81	4.59	5.00
11be EHT20	NSS1-MCS0	213	7015	-11.39	-54.22	58.96	4.74	5.00
11be EHT20	NSS1-MCS1	229	7095	-11.50	-54.33	59.06	4.73	5.00
11be EHT20	NSS1-MCS2	233	7115	-23.75	-66.58	59.09	-7.49	5.00
11be EHT40	NSS1-MCS0	195	6925	-11.85	-54.30	58.85	4.55	5.00
11be EHT40	NSS1-MCS0	211	7005	-11.45	-54.28	58.95	4.67	5.00
11be EHT40	NSS1-MCS1	227	7085	-11.54	-54.37	59.05	4.68	5.00
11be EHT80	NSS1-MCS0	199	6945	-11.89	-54.34	58.88	4.54	5.00
11be EHT80	NSS1-MCS0	215	7025	-11.39	-54.22	58.98	4.76	5.00
11be EHT160	NSS1-MCS0	207	6985	-11.54	-54.09	58.93	4.84	5.00



Non-Beamforming

Straddle Channel (Band U-NII 5-7) RF Output Power(dBm)											
Channel	Power Setting	Modulation Type	Data Rate	Frequency (MHz)	Pmes	PR (dBm/MHz)	Lp (dB)	Duty Cycle CF(dB)	E.I.R.P (dBm)	E.I.R.P (mW)	EIRP Limit (dBm)
95	21.5	11be EHT320	NSS1-MCS0	6425	-11.12	-53.51	58.20	0.00	4.69	2.94	5.00

Straddle Channel (Band U-NII 6 & U-NII 7) RF Output Power(dBm)											
Channel	Power Setting	Modulation Type	Data Rate	Frequency (MHz)	Pmes	PR (dBm/MHz)	Lp (dB)	Duty Cycle CF(dB)	E.I.R.P (dBm)	E.I.R.P (mW)	EIRP Limit (dBm)
115	10.5	11be EHT40	NSS1-MCS0	6525	-11.56	-53.91	58.33	0.00	4.42	2.77	5.00
119	14.0	11be EHT80	NSS1-MCS0	6545	-11.14	-53.49	58.36	0.00	4.87	3.07	5.00
111	17.0	11be EHT160	NSS1-MCS0	6505	-11.38	-53.73	58.31	0.00	4.58	2.87	5.00
127	21.0	11be EHT320	NSS1-MCS0	6585	-11.18	-53.53	58.41	0.00	4.88	3.08	5.00

Straddle Channel (Band U-NII 7 & U-NII 8) RF Output Power(dBm)											
Channel	Power Setting	Modulation Type	Data Rate	Frequency (MHz)	Pmes	PR (dBm/MHz)	Lp (dB)	Duty Cycle CF(dB)	E.I.R.P (dBm)	E.I.R.P (mW)	EIRP Limit (dBm)
185	10	11a	6 Mbps	6875	-11.90	-54.35	58.79	0.00	4.44	2.78	5.00
185	10.5	11be EHT20	NSS1-MCS0	6875	-11.69	-54.14	58.79	0.00	4.65	2.92	5.00
187	14	11be EHT40	NSS1-MCS0	6885	-11.55	-54.00	58.80	0.00	4.80	3.02	5.00
183	17	11be EHT80	NSS1-MCS0	6865	-11.79	-54.24	58.78	0.00	4.54	2.84	5.00
175	20	11be EHT160	NSS1-MCS0	6825	-11.72	-54.17	58.72	0.00	4.55	2.85	5.00
159	22	11be EHT320	NSS1-MCS0	6745	-11.44	-53.99	58.62	0.00	4.63	2.91	5.00
191	21	11be EHT320	NSS1-MCS0	6905	-11.73	-54.18	58.83	0.00	4.65	2.91	5.00

**Channel Puncturing**

Measured equivalent isotropically radiated power PSD result													
Modulation Type	Data Rate	Setting	Channel	Frequency (MHz)	Space (MHz)	RU-tone	Combi	Measured value (dBm/MHz)	PR (dBm/MHz)	Lp (dB)	Duty Cycle CF(dB)	E.I.R.P PSD (dBm/MHz)	E.I.R.P PSD Limit (dBm/MHz)
11be EHT80	NSS1-MCS0	18.5	7	5985	20	484+242	1	-9.12	-53.03	57.58	0	4.55	5
11be EHT160	NSS1-MCS0	20.5	15	6025	40	996+484	3	-10.34	-54.33	57.58	0	3.25	5
11be EHT320	NSS1-MCS0	22.5	63	6265	80	996x3+484	3	-12.53	-55.52	57.98	0	2.46	5
11be EHT320	NSS1-MCS0	22.5	63	6265	120	996x3+484	3	-11.15	-54.14	57.98	0	3.84	5

Multi-Resource Units

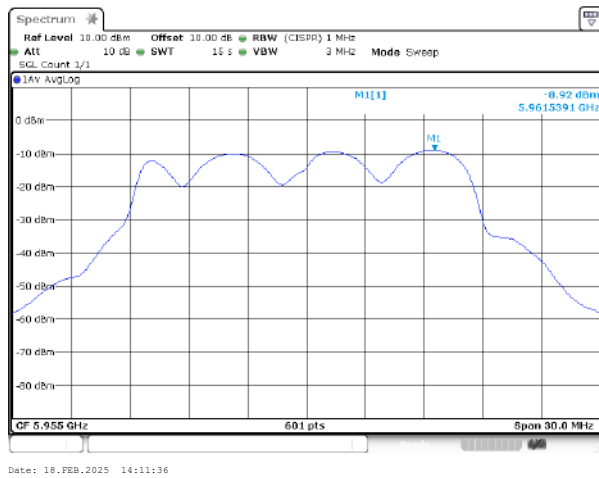
Measured equivalent isotropically radiated power PSD result													
Modulation Type	Data Rate	Setting	Channel	Frequency (MHz)	Space (MHz)	RU-tone	Combi	Measured value (dBm/MHz)	PR (dBm/MHz)	Lp (dB)	Duty Cycle CF(dB)	E.I.R.P PSD (dBm/MHz)	E.I.R.P PSD Limit (dBm/MHz)
11be EHT80	NSS1-MCS0	18.5	7	5985	20	484+242	1	-10.54	-54.45	57.58	0	3.13	5
11be EHT160	NSS1-MCS0	20.5	15	6025	40	996+484	2	-11.45	-55.44	57.58	0	2.14	5
11be EHT320	NSS1-MCS0	22.5	63	6265	80	996x3+484	3	-12.46	-55.45	57.98	0	2.53	5
11be EHT320	NSS1-MCS0	22.5	63	6265	120	996x3+484	3	-11.09	-54.08	57.98	0	3.9	5



U-NII-5

Modulation Type: 802.11a

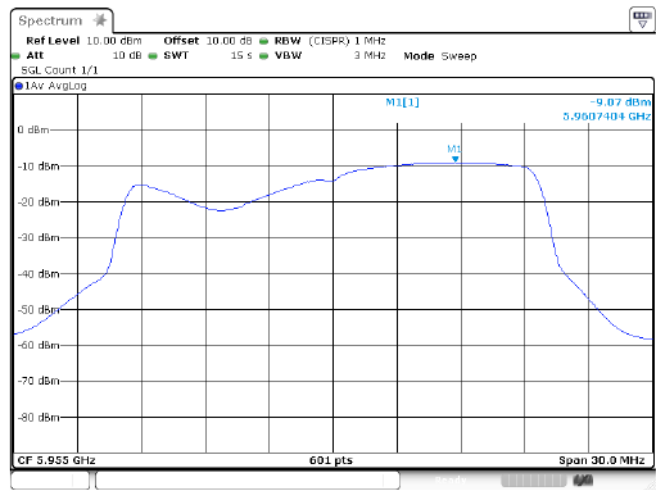
CH1



Date: 18.FEB.2025 14:11:36

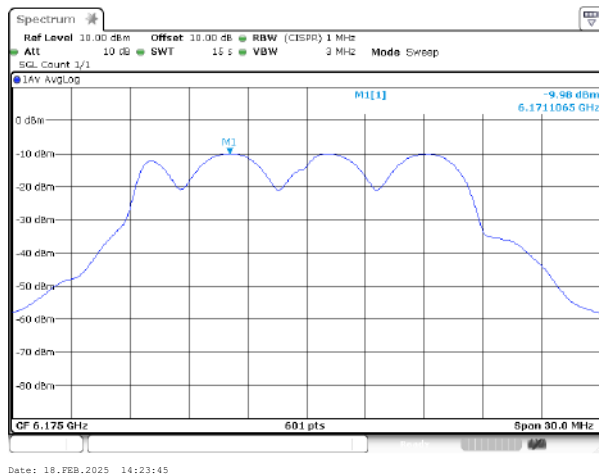
Modulation Type: 802.11be EHT20

CH1



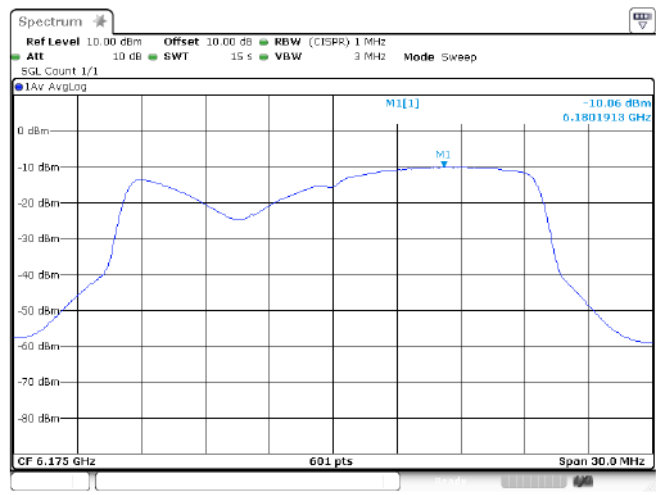
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CH45



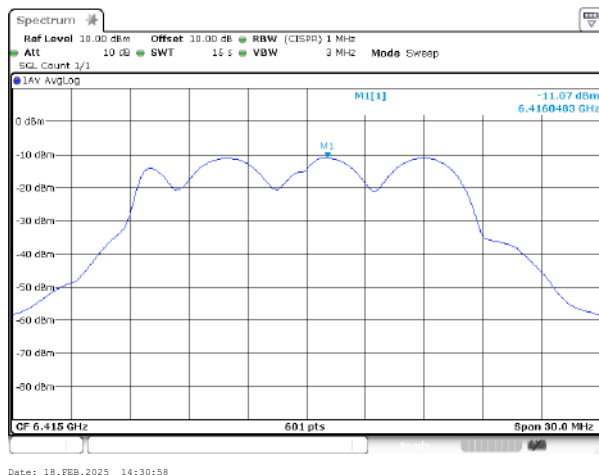
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CH45



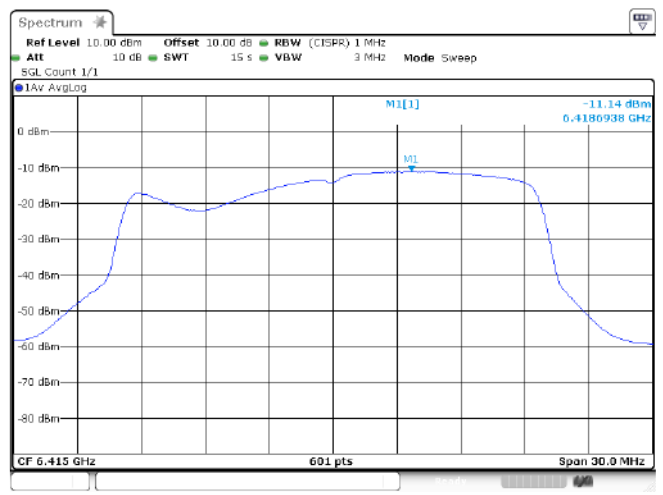
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CH93



Date: 18.FEB.2025 14:30:58

CH93



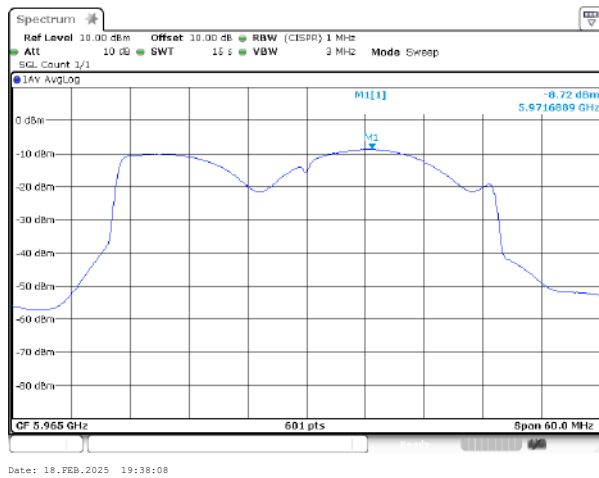
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U-NII-5

Modulation Type: 802.11be EHT40

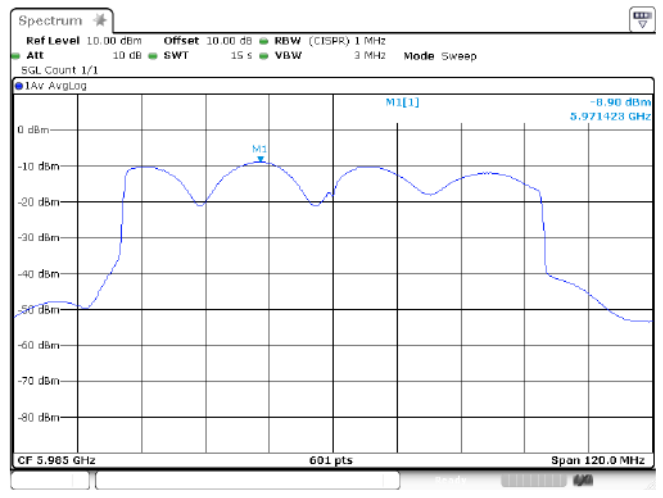
CH3



Date: 18.FEB.2025 19:38:08

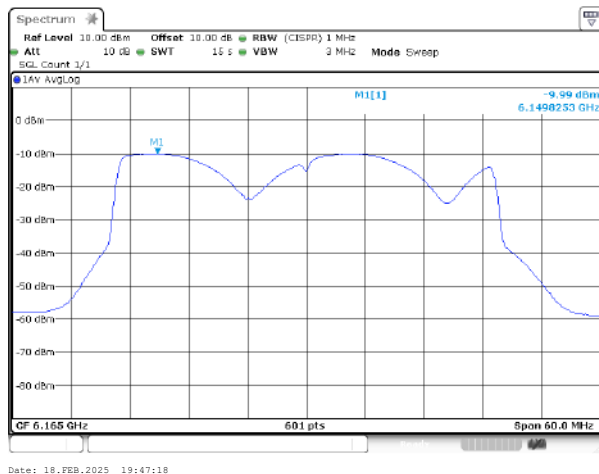
Modulation Type: 802.11be EHT80

CH7



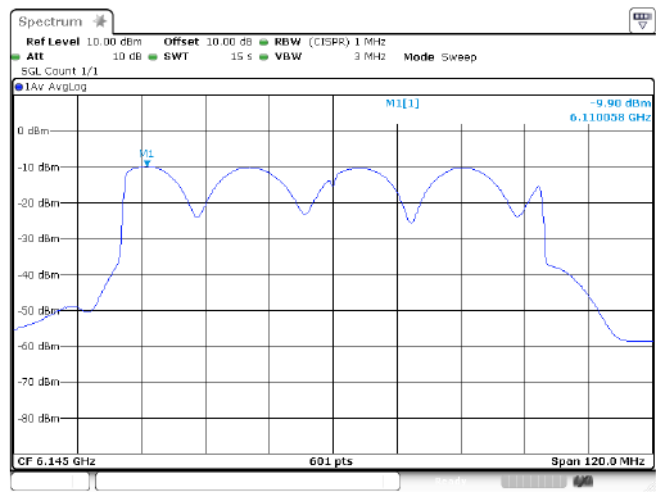
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CH43



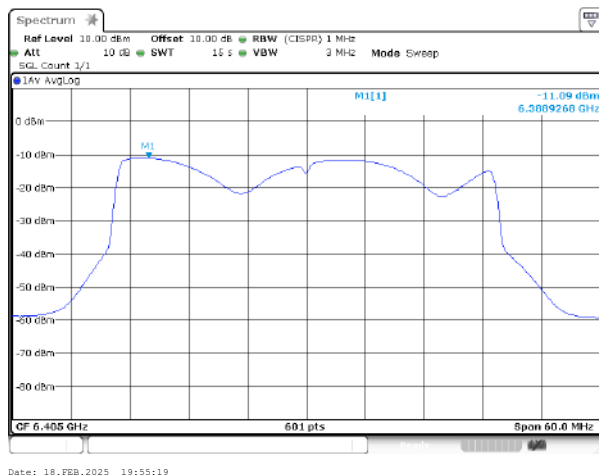
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CH39



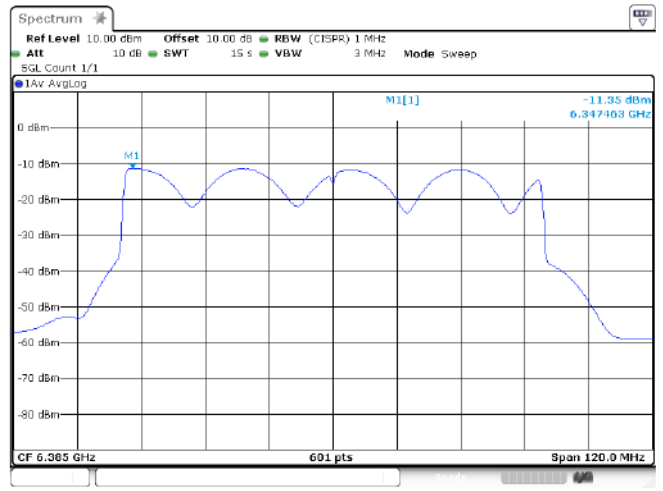
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CH91



Date: 18.FEB.2025 19:55:19

CH87



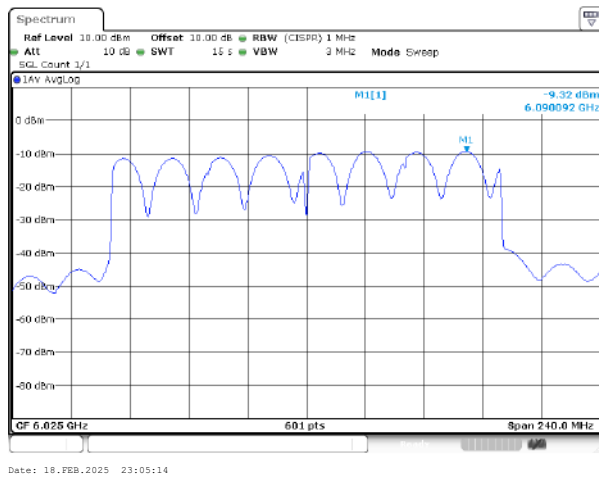
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U-NII-5

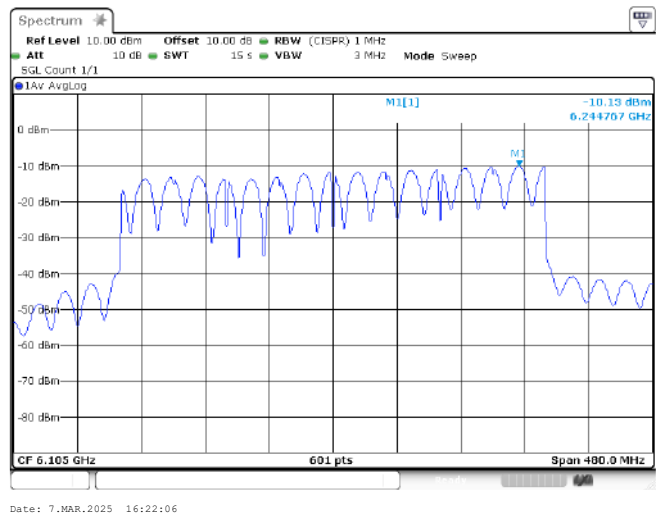
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CH15

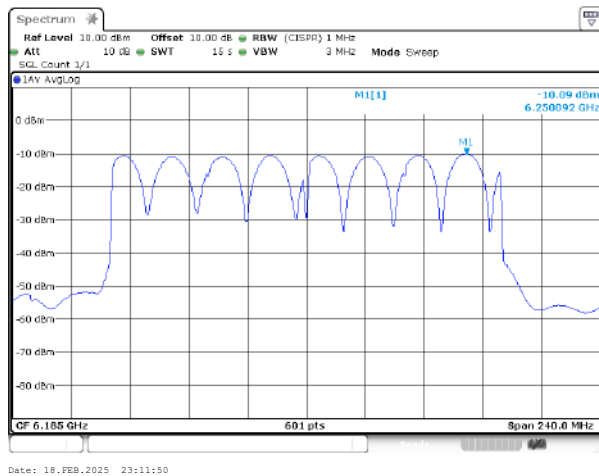


Modulation Type: 802.11be EHT320

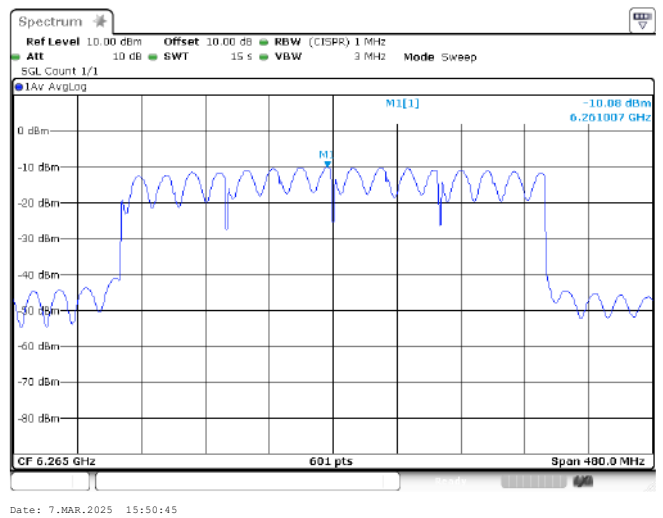
CH31



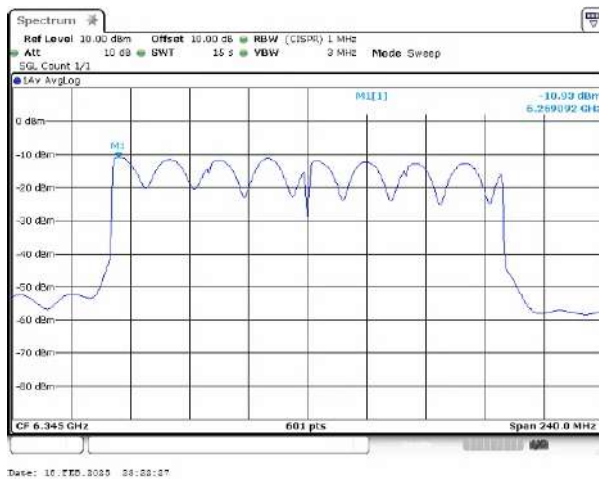
CH47



CH63



CH79

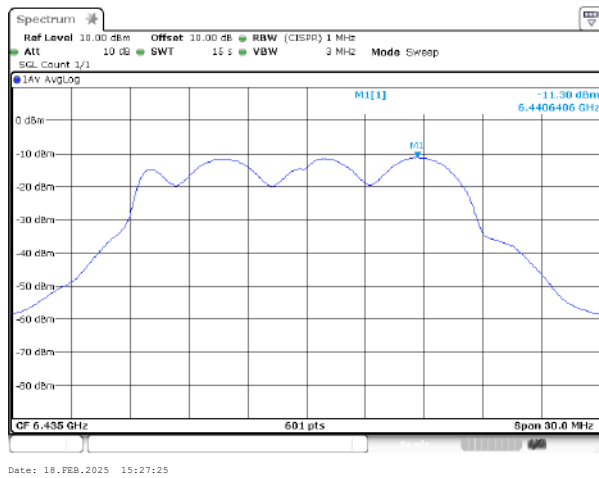




U-NII-6

Modulation Type: 802.11a

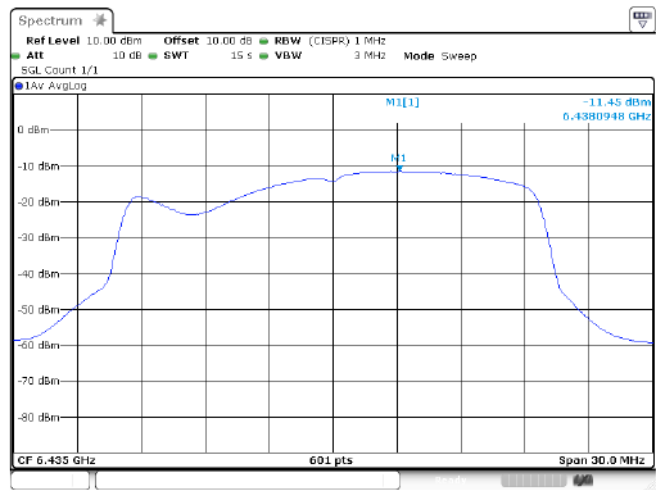
CH97



Date: 18.FEB.2025 15:27:25

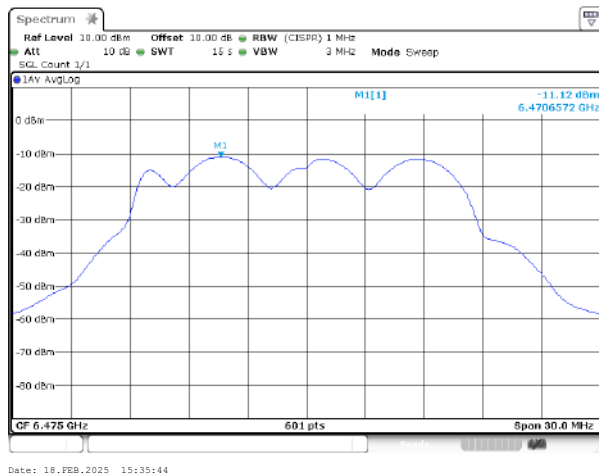
Modulation Type: 802.11be EHT20

CH97



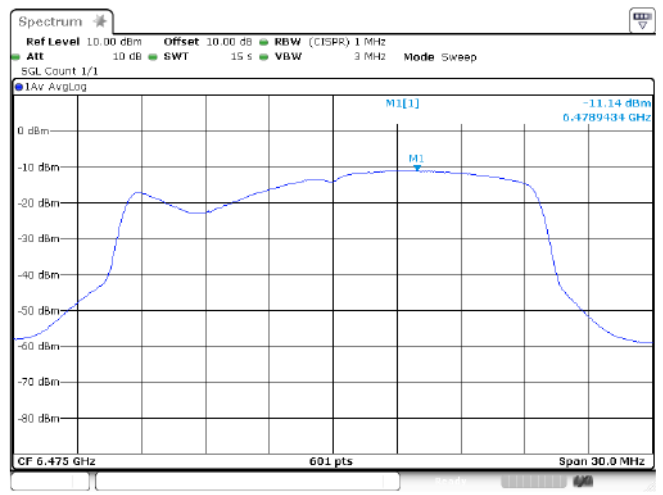
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CH105



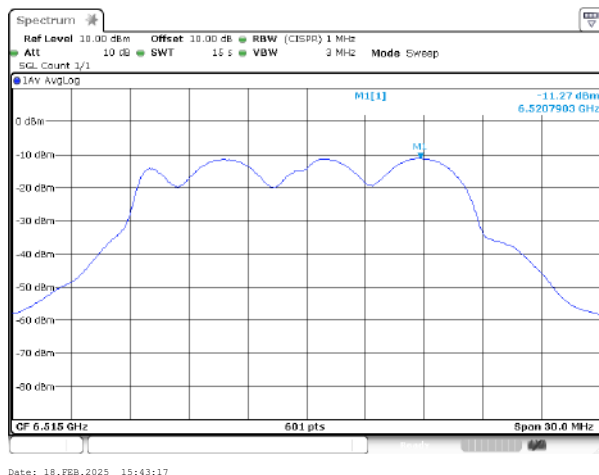
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CH105



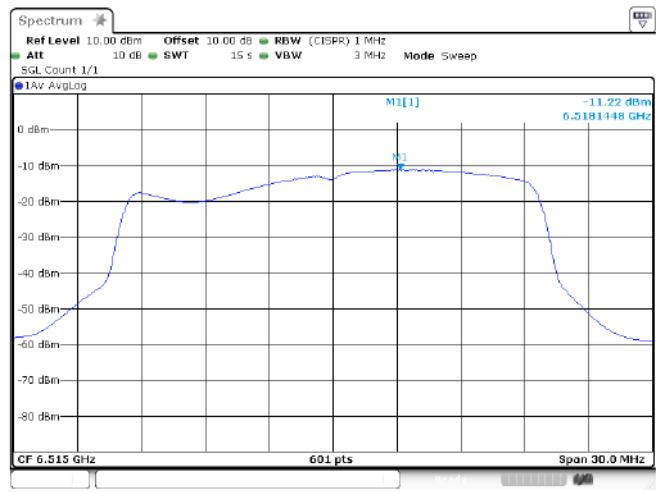
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CH113



Date: 18.FEB.2025 15:43:17

CH113



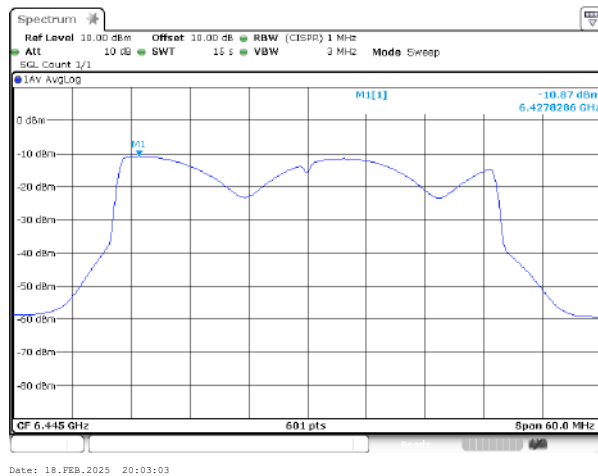
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U-NII-6

Modulation Type: 802.11be EHT40

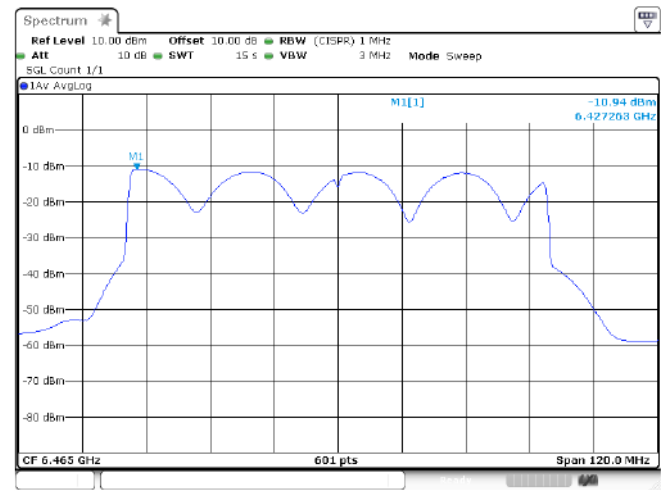
CH99



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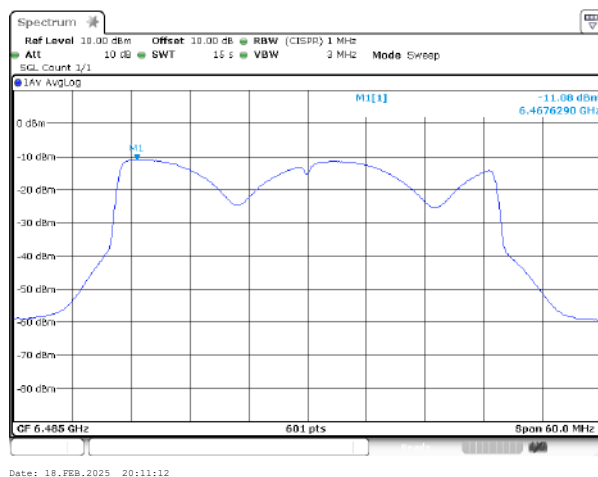
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CH103



Date: 18.FEB.2025 22:05:01

CH107



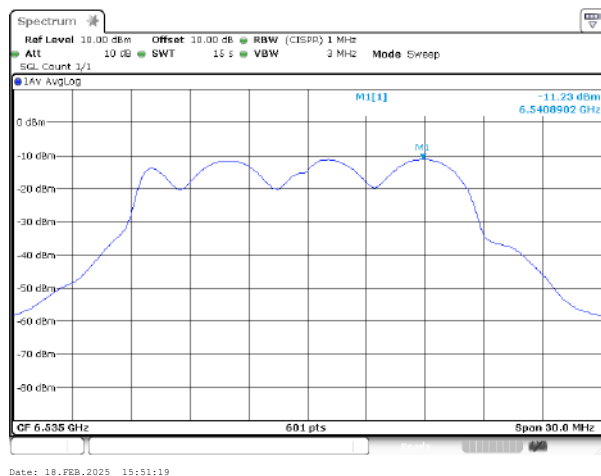
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U-NII-7

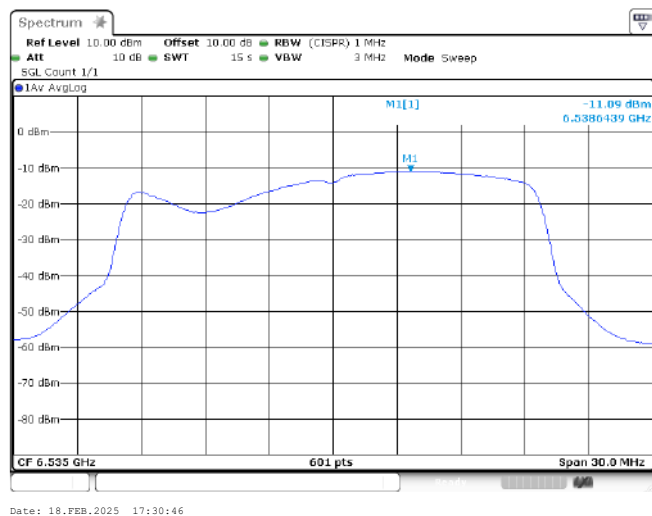
Modulation Type: 802.11a

CH117

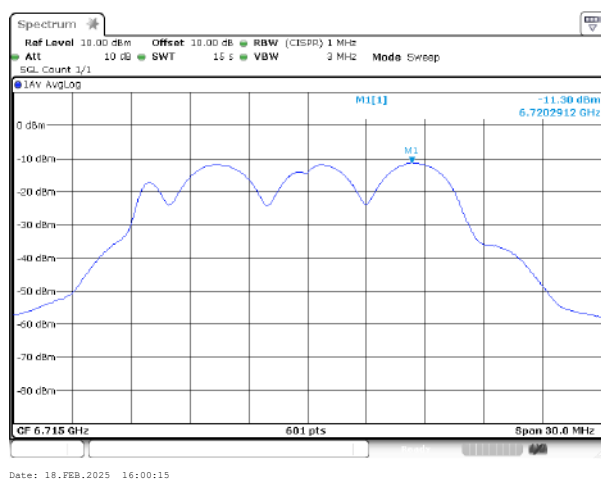


Modulation Type: 802.11be EHT20

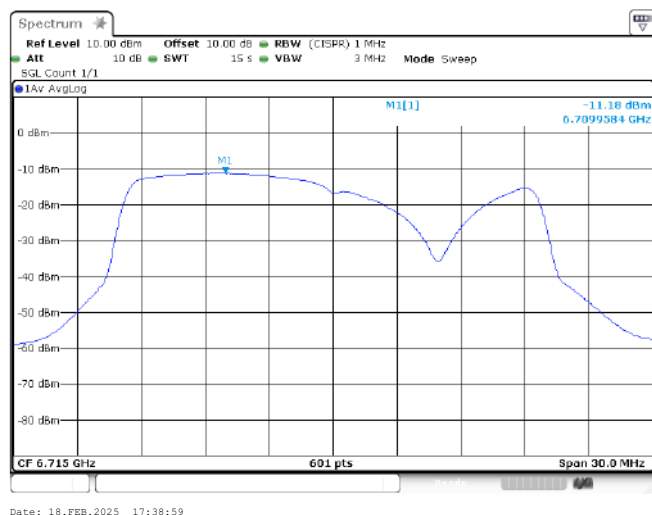
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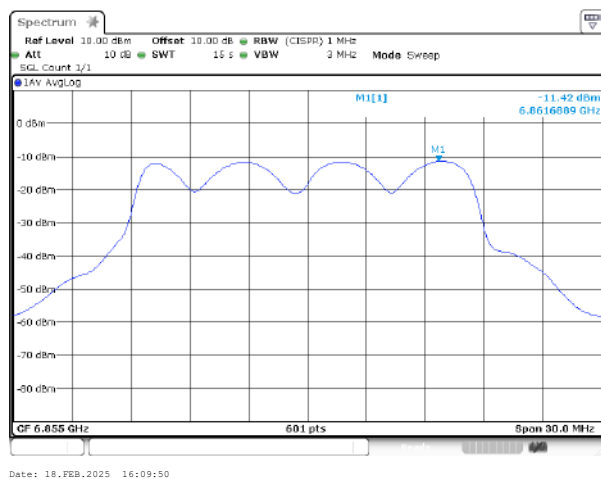
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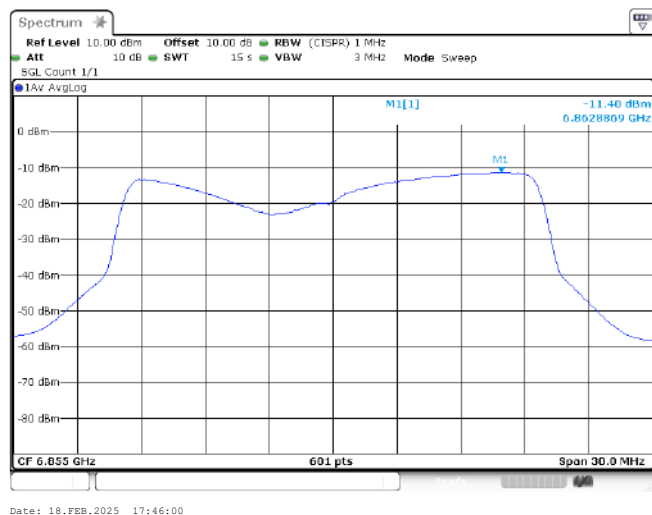
CH153



CH181



CH181

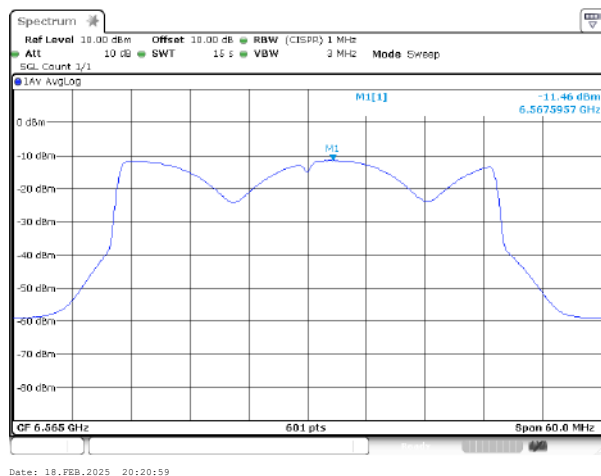




U-NII-7

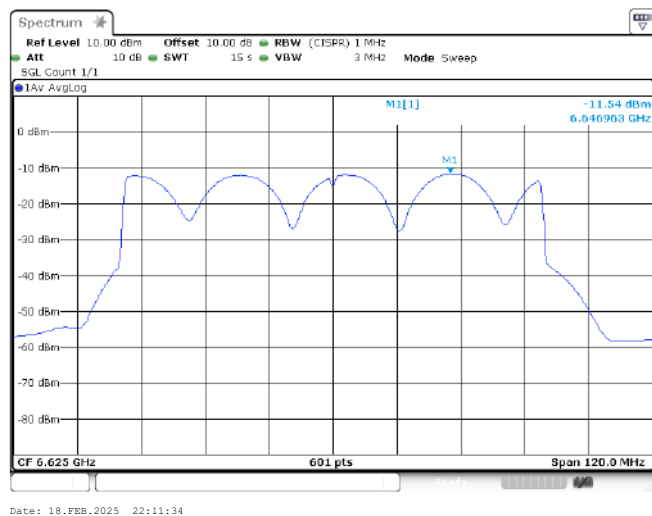
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CH123

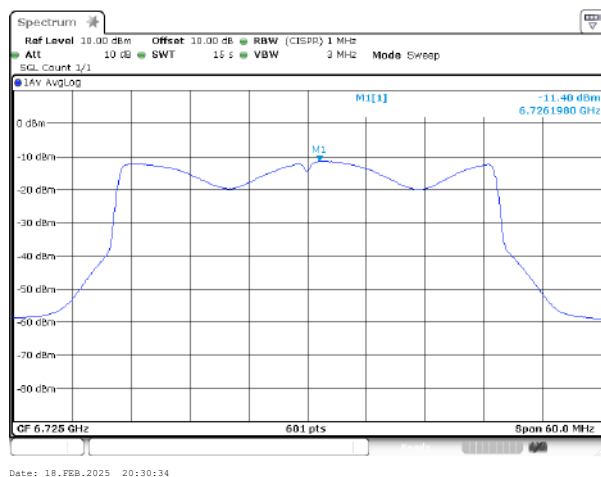


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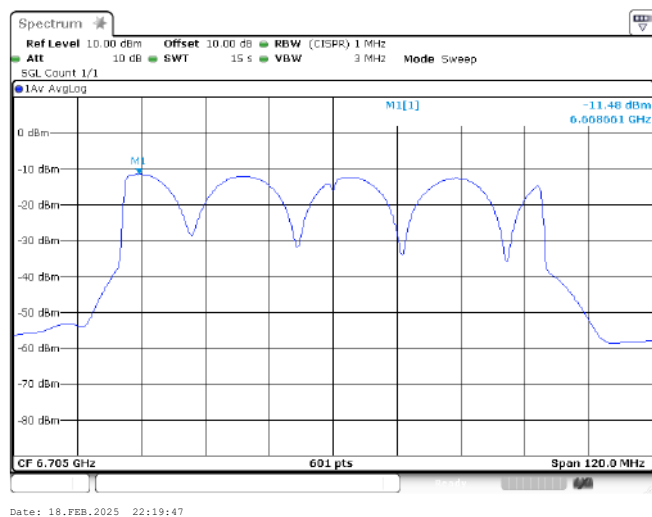
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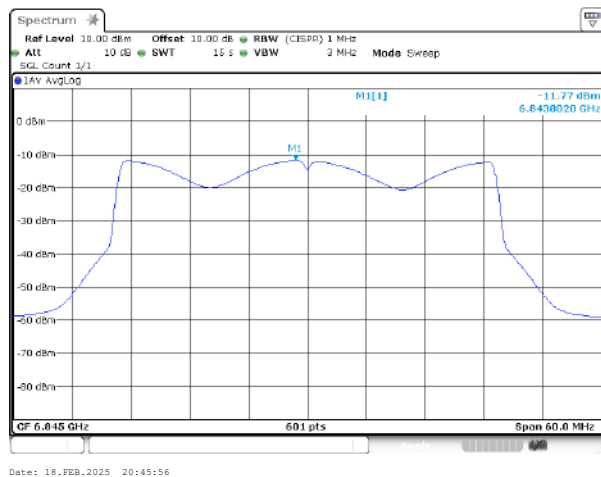
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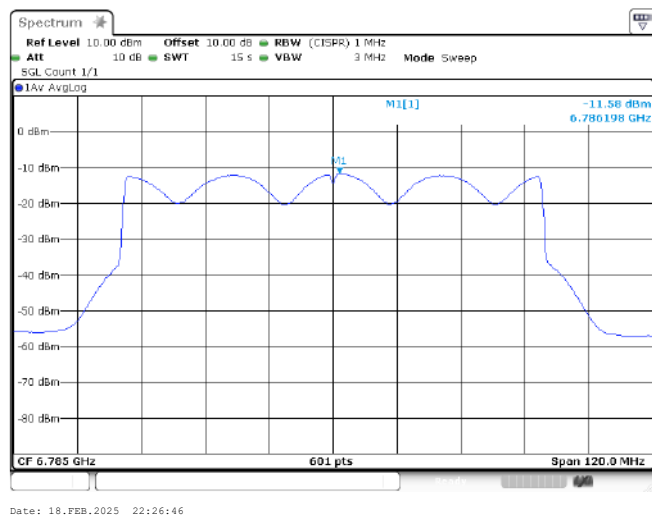
CH151



CH179



CH167

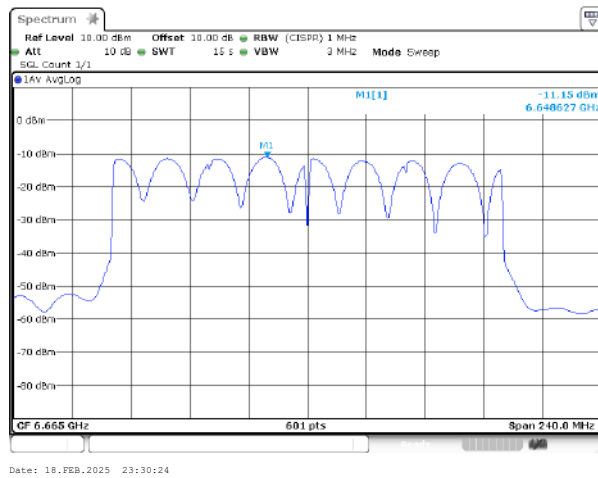




U-NII-7

Modulation Type: 802.11be EHT160

CH143

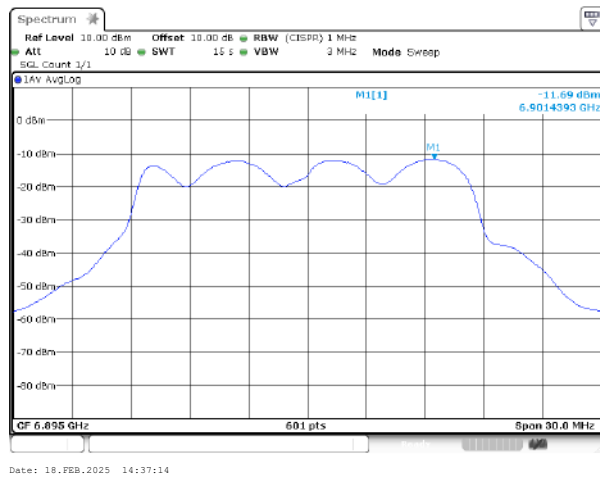




U-NII-7

Modulation Type: 802.11a

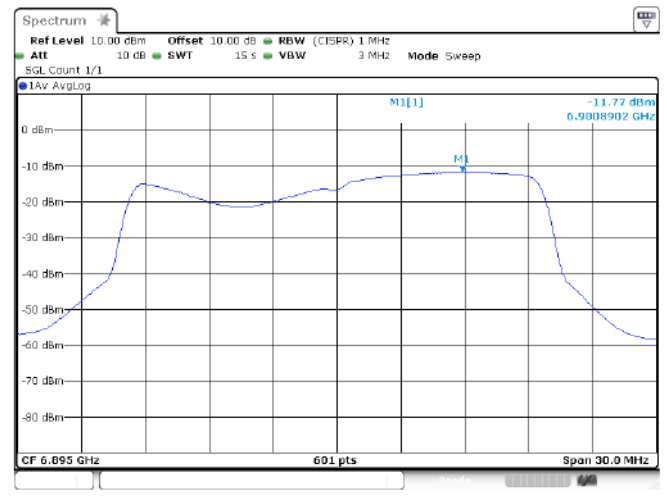
CH189



Date: 18.FEB.2025 14:37:14

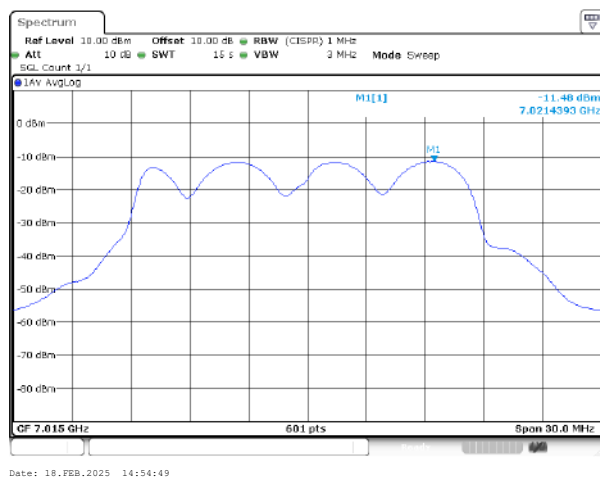
Modulation Type: 802.11be EHT20

CH189



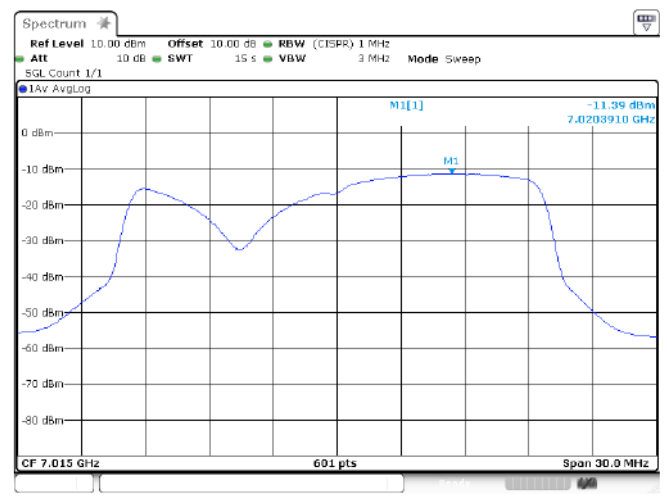
Date: 18.FEB.2025 18:26:51

CH213



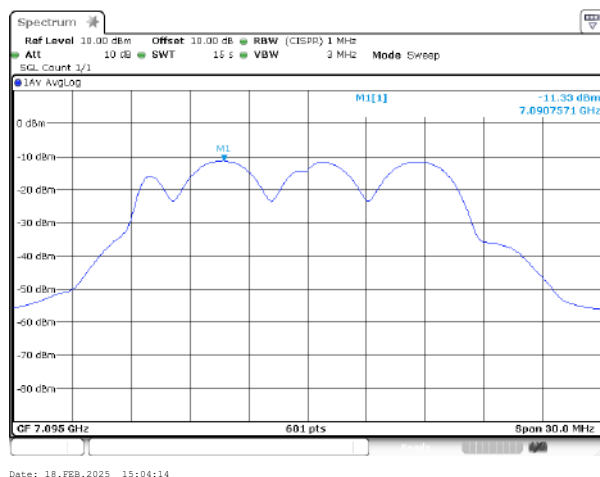
Date: 18.FEB.2025 14:54:49

CH213



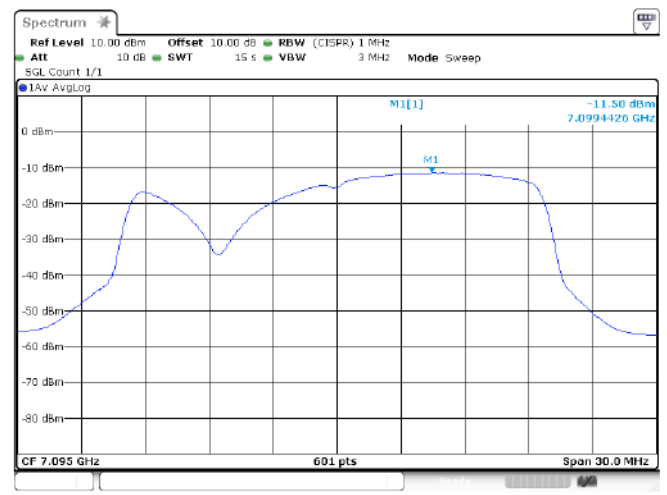
Date: 18.FEB.2025 18:35:54

CH229



Date: 18.FEB.2025 15:04:14

CH229



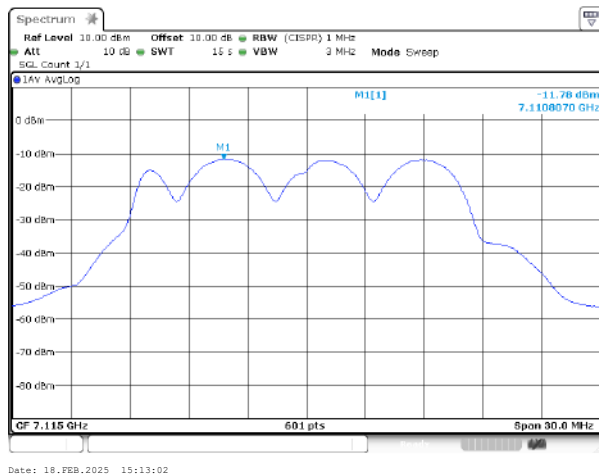
Date: 18.FEB.2025 18:47:20



U-NII-8

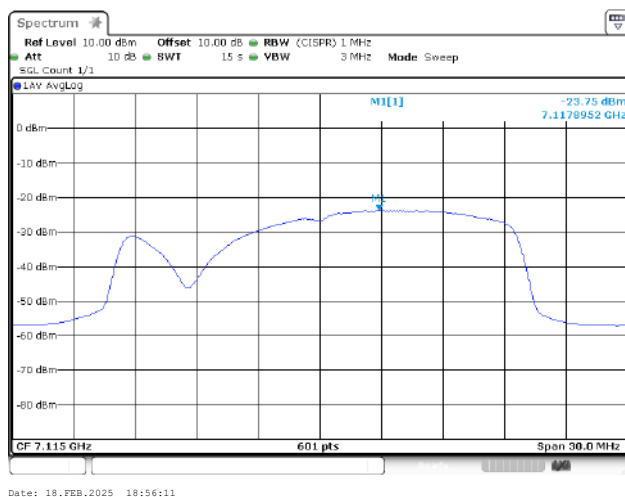
Modulation Type: 802.11a

CH233



Modulation Type: 802.11be EHT20

CH233

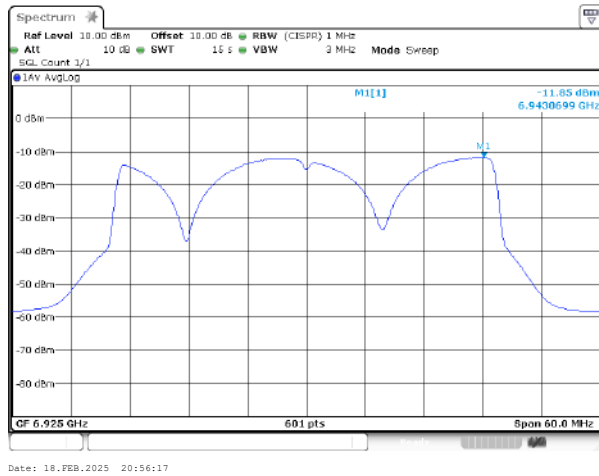




U-NII-8

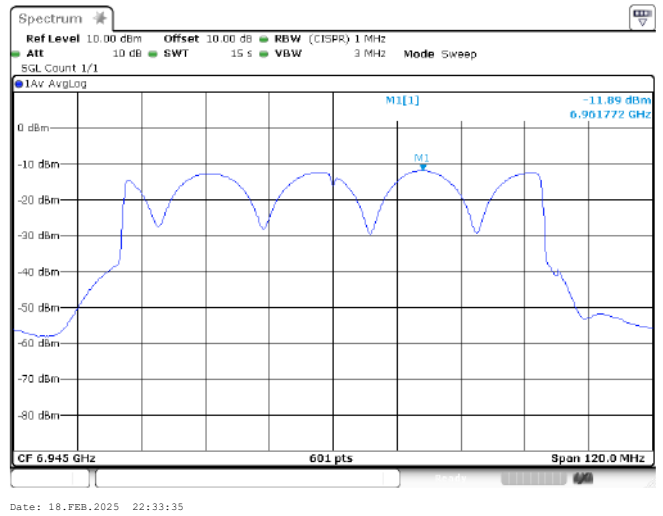
Modulation Type: 802.11be EHT40

CH195

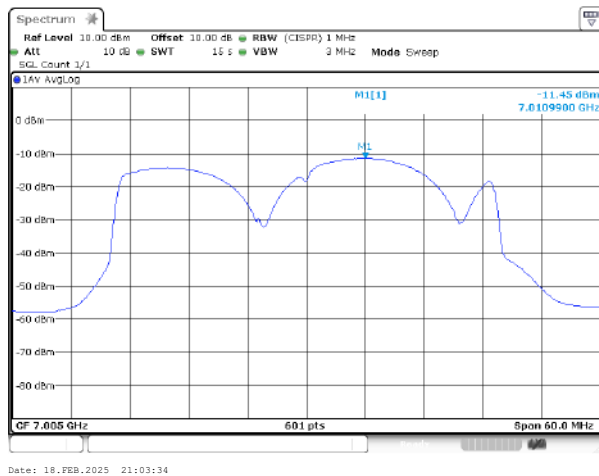


Modulation Type: 802.11be EHT80

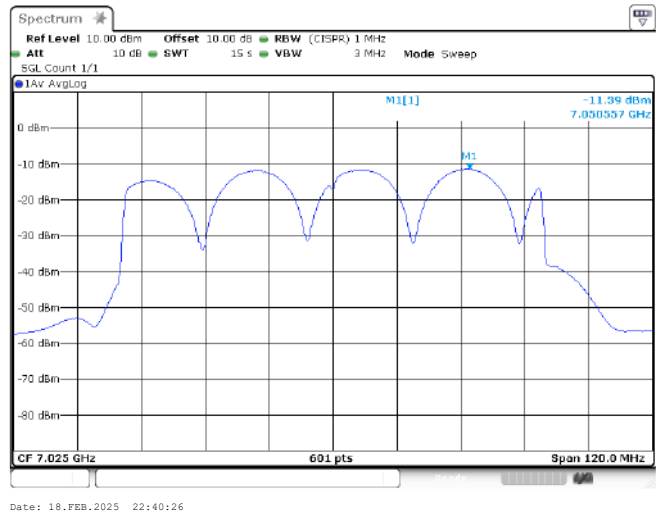
CH199



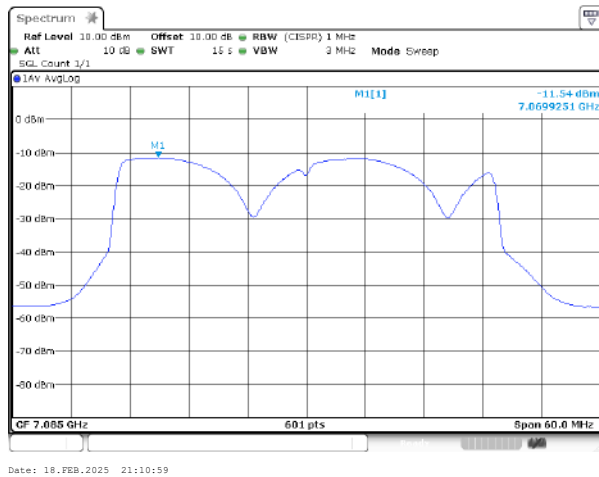
CH211



CH215



CH227

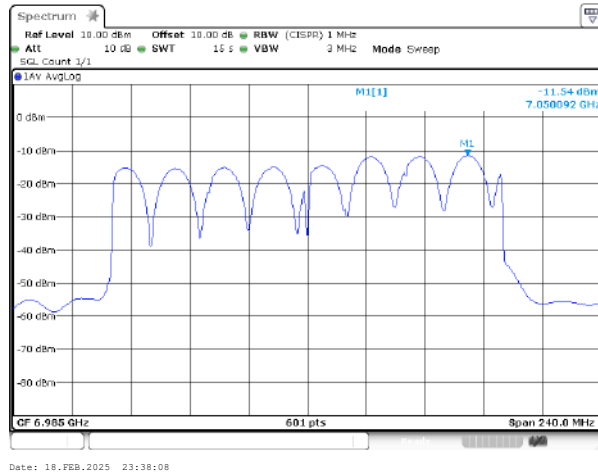




U-NII-8

Modulation Type: 802.11be EHT160

CH207

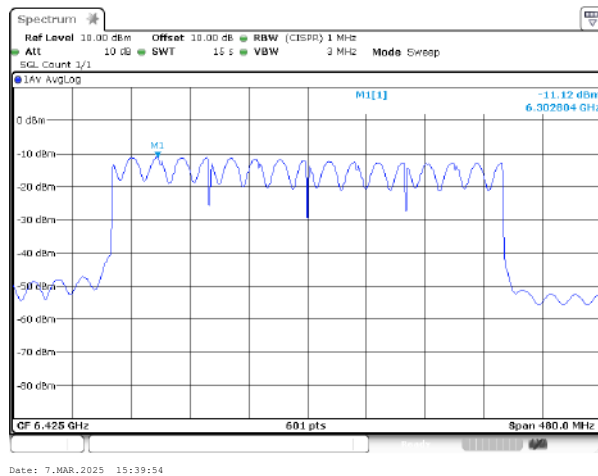




Straddle Channel U-NII-5~7

Modulation Type: 802.11be EHT320

CH95

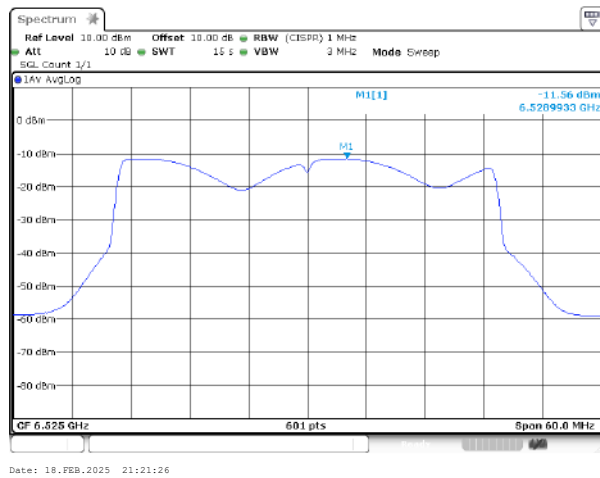




Straddle Channel U-NII-6 & U-NII-7

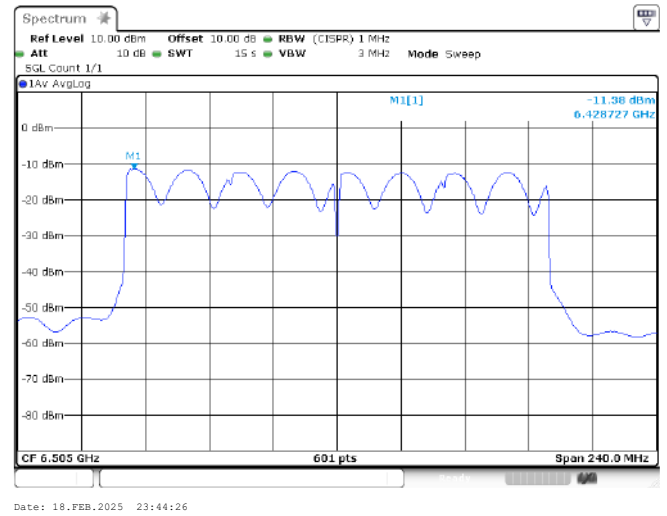
Modulation Type: 802.11be EHT40

CH115



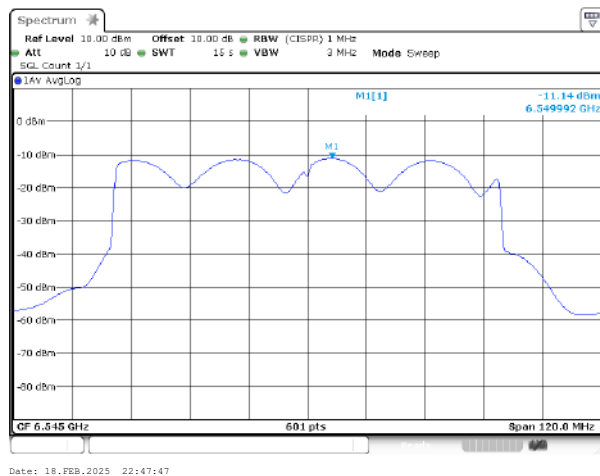
Modulation Type: 802.11be EHT160

CH111



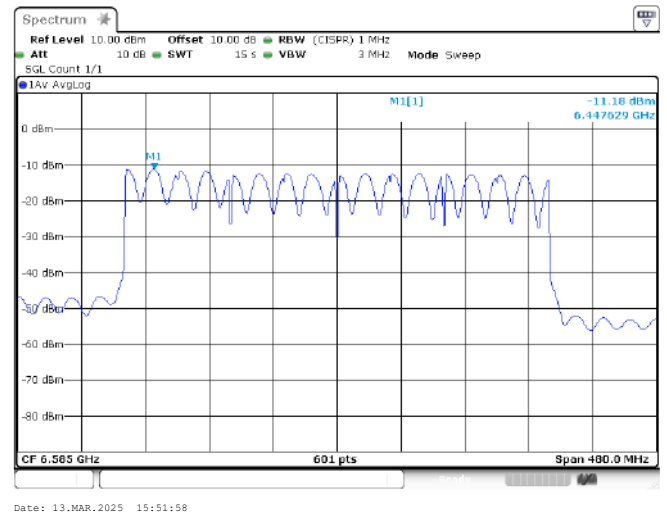
Modulation Type: 802.11be EHT80

CH119



Modulation Type: 802.11be EHT320

CH127

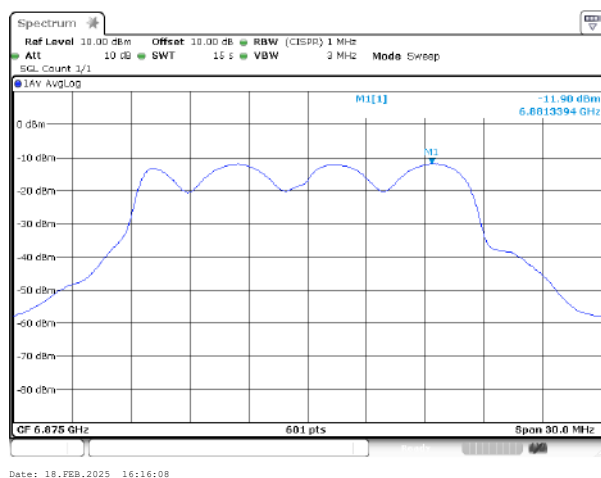




Straddle Channel U-NII-7 U-NII-8

Modulation Type: 802.11a

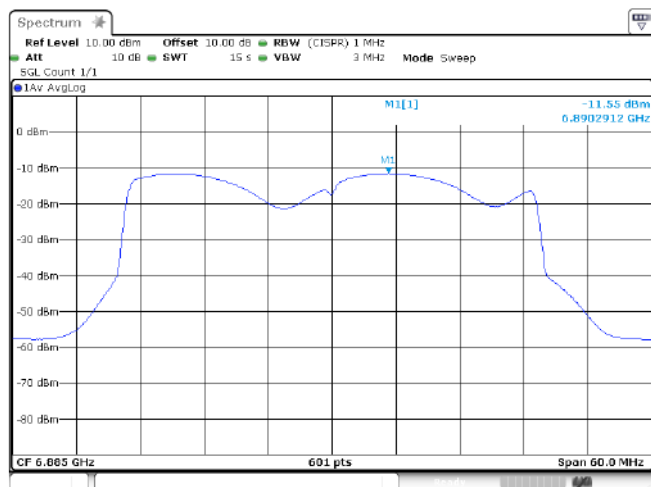
CH185



Date: 18.FEB.2025 16:16:08

Modulation Type: 802.11be EHT40

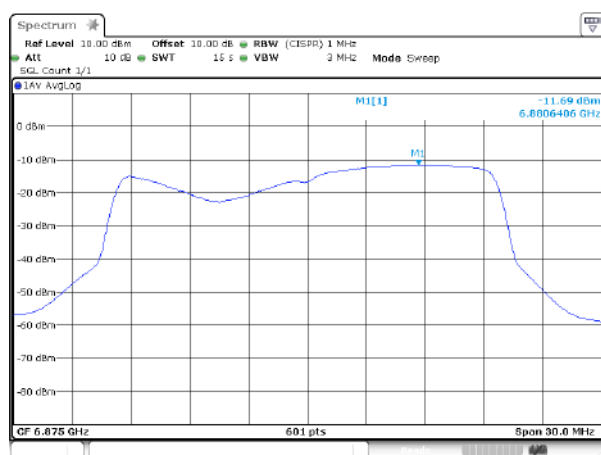
CH187



Date: 18.FEB.2025 21:28:40

Modulation Type: 802.11be EHT20

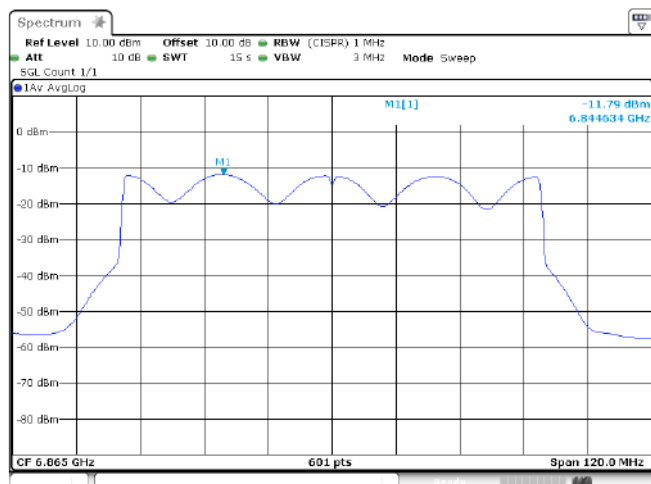
CH185



Date: 18.FEB.2025 19:03:57

Modulation Type: 802.11be EHT80

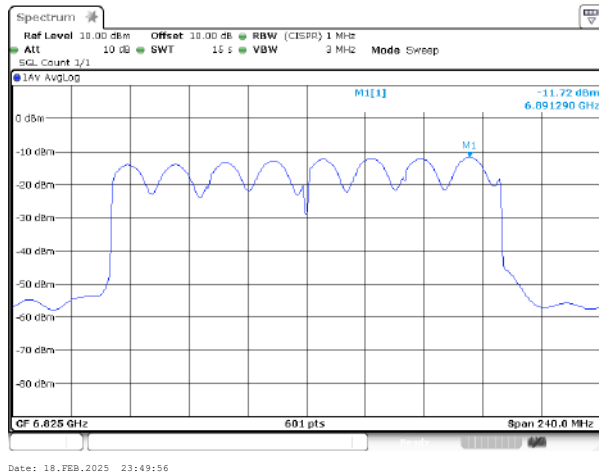
CH183



Date: 18.FEB.2025 22:55:20

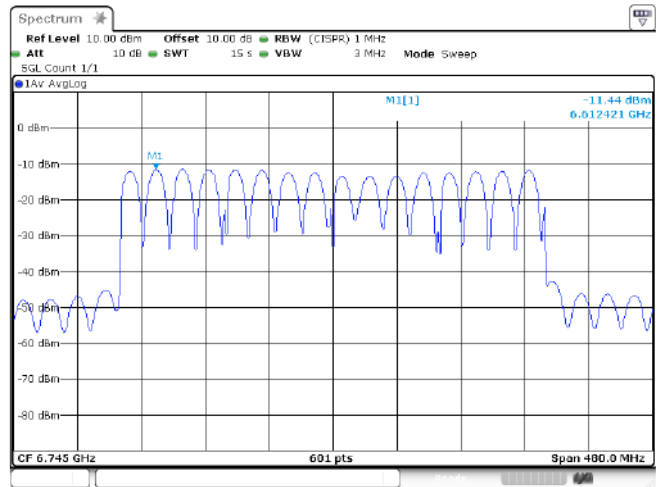


Straddle Channel U-NII-7& U-NII-8
Modulation Type: 802.11be EHT160
CH175



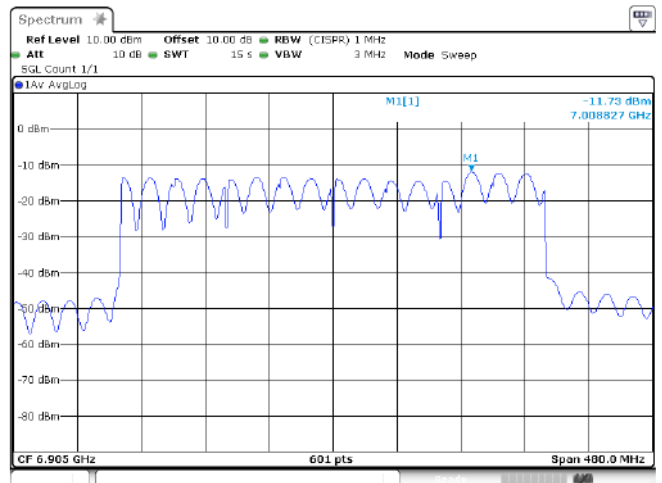
Date: 18.FEB.2025 23:49:56

Modulation Type: 802.11be EHT320
CH159



Date: 13.MAR.2025 15:58:41

Modulation Type: 802.11be EHT320
CH191



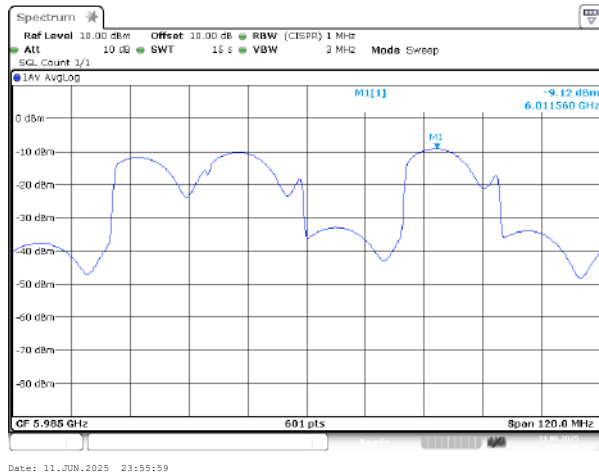
Date: 7.MAR.2025 15:07:12



Channel Puncturing

Modulation Type: 802.11be EHT80

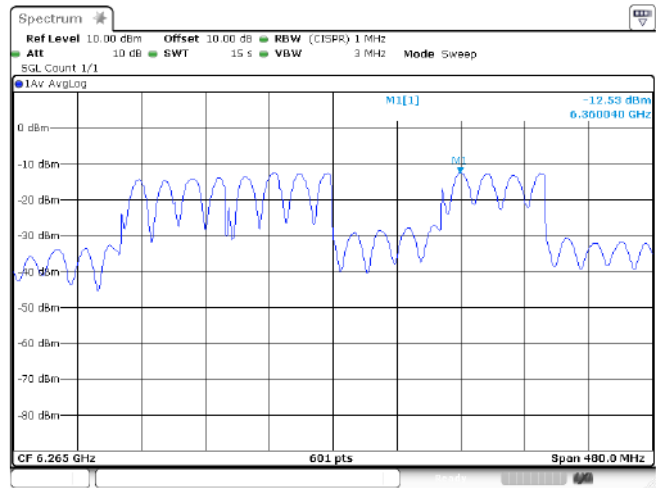
CH7



Date: 11.JUN.2025 23:55:59

Modulation Type: 802.11be EHT320

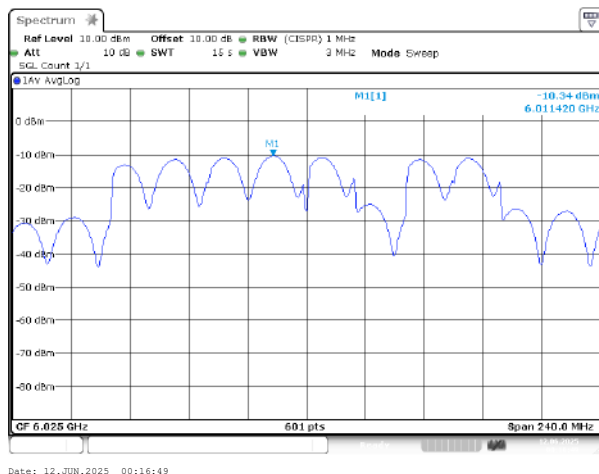
CH63



Date: 17.JUL.2025 18:25:09

Modulation Type: 802.11be EHT160

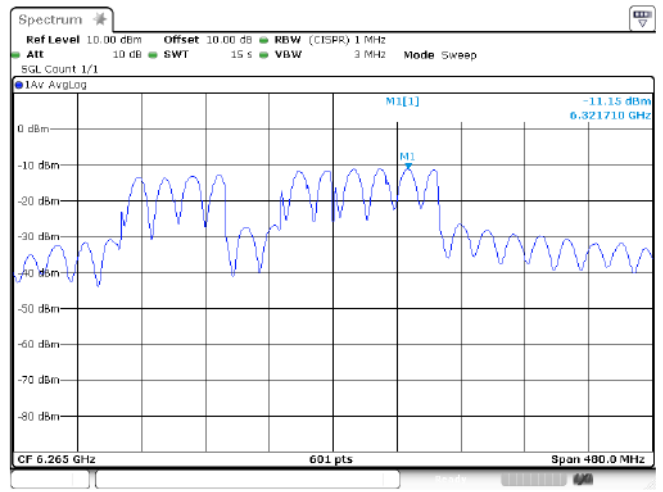
CH15



Date: 12.JUN.2025 00:16:49

Modulation Type: 802.11be EHT320

CH63



Date: 17.JUL.2025 18:27:31



Multi-Resource Units

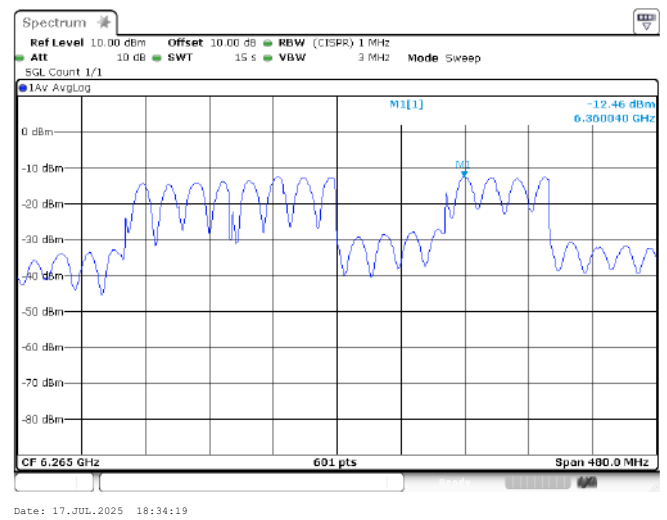
Modulation Type: 802.11be EHT80

CH7



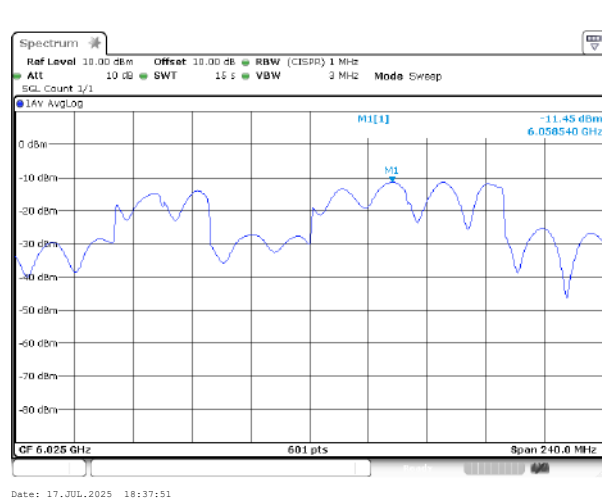
Modulation Type: 802.11be EHT320

CH63



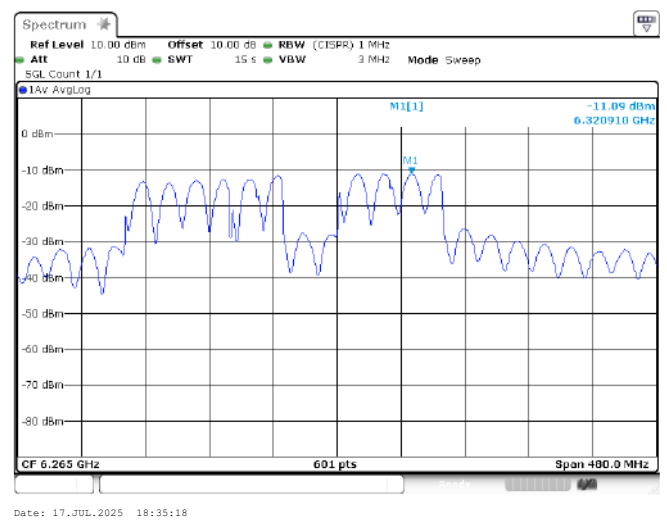
Modulation Type: 802.11be EHT160

CH15



Modulation Type: 802.11be EHT320

CH63





11. Contention Based Protocol

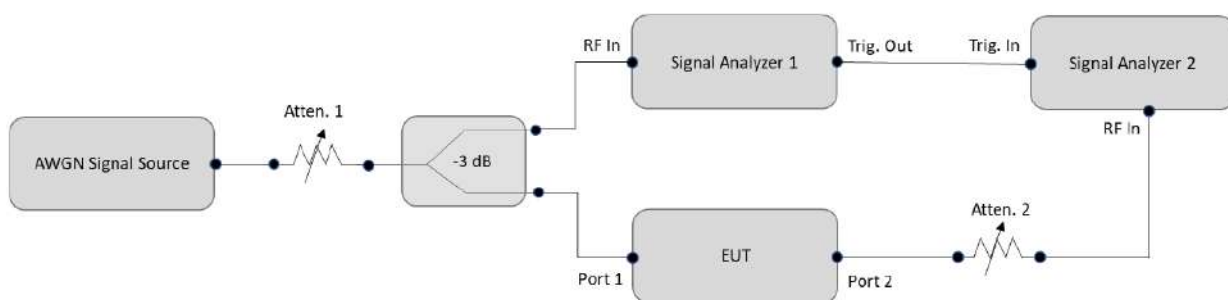
11.1.Test Limit

EUT can detect an AWGN signal with 90% (or better) level of certainty.

11.2.Test Procedure

Reference to KDB 987594 D02 U-NII 6 GHz EMC Measurement v01

11.3.Test Setup Layout



**11.4.Test Result and Data**

Contention Based Protocol Measurement											
U-NII-5 Band		Measurement Mode :			Conducted measurement(dBm)				at the antenna connector		
		Device Type :			Indoor Client				Antenna Gain :	4.2	dBi
Operation Band	Operation Mode	Channel Bandwidth (MHz)	Threshold Level (dBm)	Channel Number	Channel Frequency (MHz)	Test Result					
						AWGN Signal Frequency (MHz)	Number of Times	Number of Detected	Detection Rate	Limit	Pass/Fail
U-NII 5	802.11be	20MHz	-76.27	33	6115	6115	10	10	100.00%	90%	Pass
		320MHz	-80.36	31	6105	5950	10	10	100.00%	90%	Pass
			-75.26			6105	10	10	100.00%	90%	Pass
			-75.39			6260	10	10	100.00%	90%	Pass

Lowest Interference (AWGN) Level Check										
Operation Band	Operation Mode	Channel Bandwidth (MHz)	Channel Number	Channel Frequency (MHz)	AWGN Signal Frequency (MHz)	Injected(AWGN) power (dBm)	Antenna Gain (dBi)	Threshold Level (dBm)	Detection Limit (dBm)	EUT TX Status
U-NII 5	802.11be	20MHz	33	6115	6115	-72.07	4.2	-76.27	-62	Ceased
						-73.07		-77.27	-62	Minimal
						-74.07		-78.27	-62	Normal
		320MHz	31	6105	5950	-76.16	4.2	-80.36	-62	Ceased
						-77.16		-81.36	-62	Minimal
						-78.16		-82.36	-62	Normal
					6105	-71.06	4.2	-75.26	-62	Ceased
						-72.06		-76.26	-62	Minimal
						-73.06		-77.26	-62	Normal
					6260	-71.19	4.2	-75.39	-62	Ceased
						-72.19		-76.39	-62	Minimal
						-73.19		-77.39	-62	Normal

Note: AWGN signal level used gain 0dBi(-62 dBm) will be more strict than EUT gain 4.2dBi(-57.8dBm)



Contention Based Protocol Measurement

U-NII-6 Band		Measurement Mode :			Conducted measurement(dBm)			at the antenna connector			
		Device Type :			Indoor Client			Antenna Gain :		3.9	dBi
Operation Band	Operation Mode	Channel Bandwidth (MHz)	Threshold Level (dBm)	Channel Number	Channel Frequency (MHz)	Test Result					
						AWGN Signal Frequency (MHz)	Number of Times	Number of Detected	Detection Rate	Limit	Pass/Fail
U-NII 6	802.11be	20MHz	-78.01	105	6475	6475	10	10	100.00%	90%	Pass
		320MHz	-87.01	95	6425	6270	10	9	90.00%	90%	Pass
			-84.13			6425	10	10	100.00%	90%	Pass
			-84			6580	10	10	100.00%	90%	Pass

Lowest Interference (AWGN) Level Check

Operation Band	Operation Mode	Channel Bandwidth (MHz)	Channel Number	Channel Frequency (MHz)	AWGN Signal Frequency (MHz)	Injected(AWGN) power (dBm)	Antenna Gain (dBi)	Threshold Level (dBm)	Detection Limit (dBm)	EUT TX Status
U-NII 6	802.11be	20MHz	105	6475	6475	-74.11	3.9	-78.01	-62	Ceased
						-75.11		-79.01	-62	Minimal
						-76.11		-80.01	-62	Normal
		320MHz	95	6425	6270	-83.11	3.9	-87.01	-62	Ceased
						-84.11		-88.01	-62	Minimal
						-85.11		-89.01	-62	Normal
					6425	-80.23	3.9	-84.13	-62	Ceased
						-81.23		-85.13	-62	Minimal
						-82.23		-86.13	-62	Normal
					6580	-80.1	3.9	-84	-62	Ceased
						-81.1		-85	-62	Minimal
						-82.1		-86	-62	Normal

Note: AWGN signal level used gain 0dBi(-62 dBm) will be more strict than EUT gain 3.9dBi(-58.1dBm)



Contention Based Protocol Measurement

U-NII-7 Band		Measurement Mode :			Conducted measurement(dBm)			at the antenna connector			
		Device Type :			Indoor Client			Antenna Gain :		3.9	dBi
Operation Band	Operation Mode	Channel Bandwidth (MHz)	Threshold Level (dBm)	Channel Number	Channel Frequency (MHz)	Test Result					
						AWGN Signal Frequency (MHz)	Number of Times	Number of Detected	Detection Rate	Limit	Pass/Fail
U-NII 7	802.11be	20MHz	-73.13	161	6755	6755	10	9	90.00%	90%	Pass
		320MHz	-77.02	159	6745	6590	10	10	100.00%	90%	Pass
			-75.1			6745	10	9	90.00%	90%	Pass
			-76.06			6900	10	9	90.00%	90%	Pass

Lowest Interference (AWGN) Level Check

Operation Band	Operation Mode	Channel Bandwidth (MHz)	Channel Number	Channel Frequency (MHz)	AWGN Signal Frequency (MHz)	Injected(AWGN) power (dBm)	Antenna Gain (dBi)	Threshold Level (dBm)	Detection Limit (dBm)	EUT TX Status
U-NII 7	802.11be	20MHz	161	6755	6755	-69.23	3.9	-73.13	-62	Ceased
						-70.23		-74.13	-62	Minimal
						-71.23		-75.13	-62	Normal
		320MHz	159	6745	6590	-73.12	3.9	-77.02	-62	Ceased
						-74.12		-78.02	-62	Minimal
						-75.12		-79.02	-62	Normal
					6745	-71.2	3.9	-75.1	-62	Ceased
						-72.2		-76.1	-62	Minimal
						-73.2		-77.1	-62	Normal
					6900	-72.16	3.9	-76.06	-62	Ceased
						-73.16		-77.06	-62	Minimal
						-74.16		-78.06	-62	Normal

Note: AWGN signal level used gain 0dBi(-62 dBm) will be more strict than EUT gain 3.9dBi(-58.1dBm)



Contention Based Protocol Measurement											
U-NII-8 Band		Measurement Mode :			Conducted measurement(dBm)				at the antenna connector		
		Device Type :			Indoor Client				Anttenna Gain :	3.4	dBi
Operation Band	Operation Mode	Channel Bandwidth (MHz)	Threshold Level (dBm)	Channel Number	Channel Frequency (MHz)	Test Result					
						AWGN Signal Frequency (MHz)	Number of Times	Number of Detected	Detection Rate	Limit	Pass/Fail
U-NII 8	802.11be	20MHz	-73.66	197	6935	6935	10	9	90.00%	90%	Pass
		320MHz	-79.68	191	6905	6750	10	10	100.00%	90%	Pass
			-79.51			6905	10	10	100.00%	90%	Pass
			-70.48			7060	10	9	90.00%	90%	Pass

Lowest Interference (AWGN) Level Check										
Operation Band	Operation Mode	Channel Bandwidth (MHz)	Channel Number	Channel Frequency (MHz)	AWGN Signal Frequency (MHz)	Injected(AWGN) power (dBm)	Antenna Gain (dBi)	Threshold Level (dBm)	Detection Limit (dBm)	EUT TX Status
U-NII 8	802.11be	20MHz	197	6935	6935	-70.26	3.4	-73.66	-62	Ceased
						-71.26		-74.66	-62	Minimal
						-72.26		-75.66	-62	Normal
		320MHz	191	6905	6750	-76.28	3.4	-79.68	-62	Ceased
						-77.28		-80.68	-62	Minimal
						-78.28		-81.68	-62	Normal
					6905	-76.11	3.4	-79.51	-62	Ceased
						-77.11		-80.51	-62	Minimal
						-78.11		-81.51	-62	Normal
					7060	-67.08	3.4	-70.48	-62	Ceased
						-68.08		-71.48	-62	Minimal
						-69.08		-72.48	-62	Normal

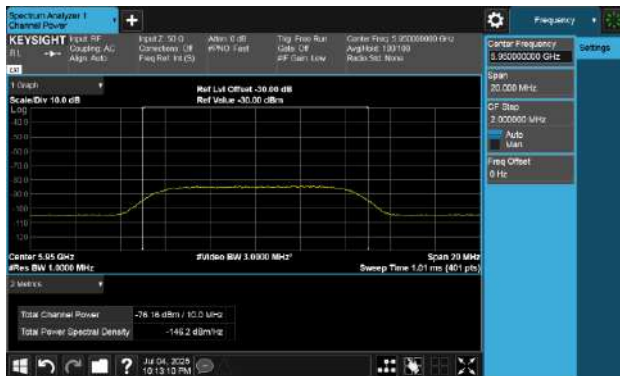
Note: AWGN signal level used gain 0dBi(-62 dBm) will be more strict than EUT gain 3.4 dBi(-58.6 dBm)



U-NII-5

Frequency (MHz): :CH 31 5950MHz (320M)

Measured Detection level



Frequency (MHz): :CH 31 5950 MHz (320M)

Test result is pass due to no transmission occur



Frequency (MHz): CH 31 6105MHz (160M)

Measured Detection level



Frequency (MHz): CH 31 6105 MHz (160M)

Test result is pass due to no transmission occur





U-NII-5

Frequency (MHz): :CH 33 6115MHz (20M)

Measured Detection level



Frequency (MHz): :CH 33 6115MHz (20M)

Test result is pass due to no transmission occur



Frequency (MHz): CH 31 6260MHz (320M)

Measured Detection level



Frequency (MHz): CH 31 6260MHz (320M)

Test result is pass due to no transmission occur





U-NII-6

Frequency (MHz): :CH 95 6270MHz (320M)

Measured Detection level



Frequency (MHz): :CH 95 6270MHz (320M)

Test result is pass due to no transmission occur



Frequency (MHz): CH 95 6425MHz (160M)

Measured Detection level



Frequency (MHz): CH 95 6425MHz (160M)

Test result is pass due to no transmission occur





U-NII-6

Frequency (MHz): :CH 105 6475MHz (20M)

Measured Detection level



Frequency (MHz): :CH 105 6475MHz (20M)

Test result is pass due to no transmission occur



Frequency (MHz): CH 95 6580MHz (320M)

Measured Detection level



Frequency (MHz): CH 95 6580MHz (320M)

Test result is pass due to no transmission occur





U-NII-7

Frequency (MHz): :CH 195 6590MHz (320M)

Measured Detection level



Frequency (MHz): :CH 195 6590MHz (320M)

Test result is pass due to no transmission occur



Frequency (MHz): CH 195 6745MHz (160M)

Measured Detection level



Frequency (MHz): CH 195 6745MHz (160M)

Test result is pass due to no transmission occur

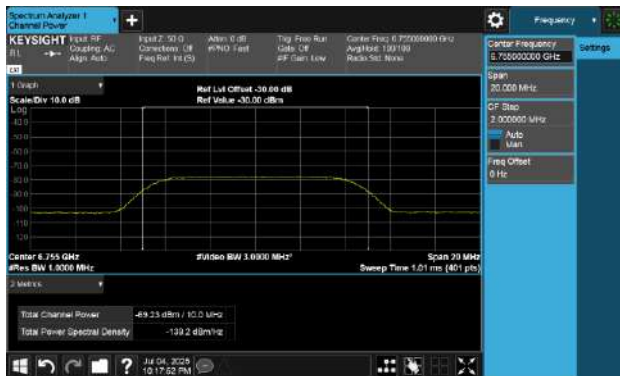




U-NII-7

Frequency (MHz): :CH 161 6755MHz (20M)

Measured Detection level



Frequency (MHz): :CH 161 6755MHz (20M)

Test result is pass due to no transmission occur



Frequency (MHz): CH 195 6900MHz (320M)

Measured Detection level



Frequency (MHz): CH 195 6900MHz (320M)

Test result is pass due to no transmission occur

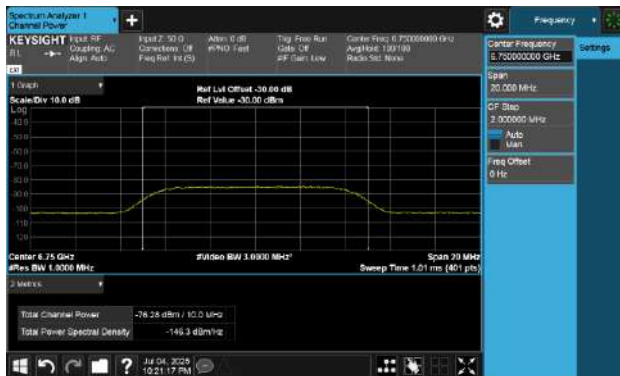




U-NII-8

Frequency (MHz): :CH 191 6750MHz (320M)

Measured Detection level



Frequency (MHz): :CH 191 6750MHz (320M)

Test result is pass due to no transmission occur



Frequency (MHz): CH 191 6905MHz (160M)

Measured Detection level



Frequency (MHz): CH 191 6905MHz (160M)

Test result is pass due to no transmission occur





U-NII-8

Frequency (MHz): :CH 197 6935MHz (20M)

Measured Detection level



Frequency (MHz): :CH 197 6935MHz (20M)

Test result is pass due to no transmission occur



Frequency (MHz): CH 191 7060MHz (320M)

Measured Detection level



Frequency (MHz): CH 191 7060MHz (320M)

Test result is pass due to no transmission occur





12. Indoor AP identification broadcast beacon

12.1.Statement of indoor AP identification broadcast beacon

This EUT operates as LPI AP, and the operation power will not exceed the regulatory limit. This EUT meets the requirement of "Indoor AP identification broadcast beacon". Please refer to the operation description for detailed information..

-----THE END OF REPORT-----