

1 GHz to 18 GHz, ANT H 802.11n40 Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1597.600	42.15	74.0	31.85	Peak	260.00	300	Horizontal	Pass
1**	1597.600	32.92	54.0	21.08	AV	260.00	300	Horizontal	Pass
2	2425.400	107.38	74.0	-33.38	Peak	139.00	200	Horizontal	N/A
2**	2425.400	99.63	54.0	-45.63	AV	139.00	200	Horizontal	N/A
3	4975.500	49.58	74.0	24.42	Peak	324.00	150	Horizontal	Pass
3**	4975.500	39.30	54.0	14.70	AV	324.00	150	Horizontal	Pass
4	7750.750	50.95	74.0	23.05	Peak	93.00	100	Horizontal	Pass
4**	7750.750	47.46	54.0	6.54	AV	93.00	100	Horizontal	Pass
5	12410.375	53.02	74.0	20.98	Peak	0.00	200	Horizontal	Pass
5**	12410.375	43.60	54.0	10.40	AV	0.00	200	Horizontal	Pass
6	16969.426	55.27	74.0	18.73	Peak	76.00	400	Horizontal	Pass
6**	16969.426	45.42	54.0	8.58	AV	76.00	400	Horizontal	Pass

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No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1330.200	45.66	74.0	28.34	Peak	210.00	300	Vertical	Pass
1**	1330.200	36.65	54.0	17.35	AV	210.00	300	Vertical	Pass
2	2420.200	100.55	74.0	-26.55	Peak	55.00	200	Vertical	N/A
2**	2420.200	92.55	54.0	-38.55	AV	55.00	200	Vertical	N/A
3	4866.500	49.47	74.0	24.53	Peak	95.00	100	Vertical	Pass
3**	4866.500	39.75	54.0	14.25	AV	95.00	100	Vertical	Pass
4	7750.500	51.15	74.0	22.85	Peak	57.00	100	Vertical	Pass
4**	7750.500	47.29	54.0	6.71	AV	57.00	100	Vertical	Pass
5	12472.600	52.83	74.0	21.17	Peak	35.00	100	Vertical	Pass
5**	12472.600	43.71	54.0	10.29	AV	35.00	100	Vertical	Pass
6	17107.238	55.50	74.0	18.50	Peak	39.00	200	Vertical	Pass
6**	17107.238	46.23	54.0	7.77	AV	39.00	200	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11n40 Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1337.000	42.28	74.0	31.72	Peak	205.00	400	Horizontal	Pass
1**	1337.000	32.37	54.0	21.63	AV	205.00	400	Horizontal	Pass
2	2435.400	108.94	74.0	-34.94	Peak	127.00	150	Horizontal	N/A
2**	2435.400	101.22	54.0	-47.22	AV	127.00	150	Horizontal	N/A
3	4902.500	49.23	74.0	24.77	Peak	18.00	150	Horizontal	Pass
3**	4902.500	40.05	54.0	13.95	AV	18.00	150	Horizontal	Pass
4	7937.000	54.53	74.0	19.47	Peak	37.00	200	Horizontal	Pass
4**	7937.000	45.04	54.0	8.96	AV	37.00	200	Horizontal	Pass
5	12970.500	53.50	74.0	20.50	Peak	0.00	100	Horizontal	Pass
5**	12970.500	43.86	54.0	10.14	AV	0.00	100	Horizontal	Pass
6	17157.375	55.57	74.0	18.43	Peak	110.00	100	Horizontal	Pass
6**	17157.375	45.61	54.0	8.39	AV	110.00	100	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11n40 Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1329.300	44.58	74.0	29.42	Peak	139.00	300	Vertical	Pass
1**	1329.300	34.09	54.0	19.91	AV	139.00	300	Vertical	Pass
2	2435.600	103.34	74.0	-29.34	Peak	79.00	100	Vertical	N/A
2**	2435.600	96.30	54.0	-42.30	AV	79.00	100	Vertical	N/A
3	4940.000	49.04	74.0	24.96	Peak	171.00	150	Vertical	Pass
3**	4940.000	39.90	54.0	14.10	AV	171.00	150	Vertical	Pass
4	7798.500	51.40	74.0	22.60	Peak	150.00	100	Vertical	Pass
4**	7798.500	47.50	54.0	6.50	AV	150.00	100	Vertical	Pass
5	12995.174	53.46	74.0	20.54	Peak	176.00	200	Vertical	Pass
5**	12995.174	43.43	54.0	10.57	AV	176.00	200	Vertical	Pass
6	17004.074	55.49	74.0	18.51	Peak	307.00	200	Vertical	Pass
6**	17004.074	45.16	54.0	8.84	AV	307.00	200	Vertical	Pass

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No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1313.200	42.65	74.0	31.35	Peak	210.00	300	Horizontal	Pass
1**	1313.200	33.06	54.0	20.94	AV	210.00	300	Horizontal	Pass
2	2454.000	103.89	74.0	-29.89	Peak	130.00	150	Horizontal	N/A
2**	2454.000	96.14	54.0	-42.14	AV	130.00	150	Horizontal	N/A
3	4732.750	49.55	74.0	24.45	Peak	210.00	150	Horizontal	Pass
3**	4732.750	40.02	54.0	13.98	AV	210.00	150	Horizontal	Pass
4	7935.750	53.38	74.0	20.62	Peak	0.00	200	Horizontal	Pass
4**	7935.750	44.54	54.0	9.46	AV	0.00	200	Horizontal	Pass
5	12999.113	53.06	74.0	20.94	Peak	59.00	400	Horizontal	Pass
5**	12999.113	44.03	54.0	9.97	AV	59.00	400	Horizontal	Pass
6	17008.538	55.29	74.0	18.71	Peak	271.00	200	Horizontal	Pass
6**	17008.538	45.74	54.0	8.26	AV	271.00	200	Horizontal	Pass

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No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1331.000	46.52	74.0	27.48	Peak	208.00	200	Vertical	Pass
1**	1331.000	35.00	54.0	19.00	AV	208.00	200	Vertical	Pass
2	2448.900	95.14	74.0	-21.14	Peak	52.00	150	Vertical	N/A
2**	2448.900	86.46	54.0	-32.46	AV	52.00	150	Vertical	N/A
3	4895.250	48.95	74.0	25.05	Peak	190.00	200	Vertical	Pass
3**	4895.250	40.48	54.0	13.52	AV	190.00	200	Vertical	Pass
4	6894.000	53.82	74.0	20.18	Peak	130.00	300	Vertical	Pass
4**	6894.000	44.89	54.0	9.11	AV	130.00	300	Vertical	Pass
5	12986.250	53.30	74.0	20.70	Peak	89.00	100	Vertical	Pass
5**	12986.250	43.27	54.0	10.73	AV	89.00	100	Vertical	Pass
6	17108.287	55.28	74.0	18.72	Peak	127.00	300	Vertical	Pass
6**	17108.287	46.13	54.0	7.87	AV	127.00	300	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11ax20(SU) Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1319.700	42.71	74.0	31.29	Peak	348.00	300	Horizontal	Pass
1**	1319.700	33.29	54.0	20.71	AV	348.00	300	Horizontal	Pass
2	2411.700	111.22	74.0	-37.22	Peak	103.00	150	Horizontal	N/A
2**	2411.700	103.19	54.0	-49.19	AV	103.00	150	Horizontal	N/A
3	4950.000	50.18	74.0	23.82	Peak	15.00	150	Horizontal	Pass
3**	4950.000	39.98	54.0	14.02	AV	15.00	150	Horizontal	Pass
4	7718.750	51.88	74.0	22.12	Peak	171.00	100	Horizontal	Pass
4**	7718.750	48.47	54.0	5.53	AV	171.00	100	Horizontal	Pass
5	12454.550	53.87	74.0	20.13	Peak	115.00	400	Horizontal	Pass
5**	12454.550	44.07	54.0	9.93	AV	115.00	400	Horizontal	Pass
6	17052.375	55.33	74.0	18.67	Peak	14.00	200	Horizontal	Pass
6**	17052.375	45.79	54.0	8.21	AV	14.00	200	Horizontal	Pass

1 GHz to 18 GHz, ANT V802.11ax20(SU) Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1330.800	45.59	74.0	28.41	Peak	205.00	300	Vertical	Pass
1**	1330.800	33.22	54.0	20.78	AV	205.00	300	Vertical	Pass
2	2412.300	105.57	74.0	-31.57	Peak	49.00	150	Vertical	N/A
2**	2412.300	96.69	54.0	-42.69	AV	49.00	150	Vertical	N/A
3	5310.750	53.97	74.0	20.03	Peak	113.00	200	Vertical	Pass
3**	5310.750	40.56	54.0	13.44	AV	113.00	200	Vertical	Pass
4	7718.750	51.33	74.0	22.67	Peak	35.00	100	Vertical	Pass
4**	7718.750	47.59	54.0	6.41	AV	35.00	100	Vertical	Pass
5	12984.937	53.19	74.0	20.81	Peak	67.00	200	Vertical	Pass
5**	12984.937	44.43	54.0	9.57	AV	67.00	200	Vertical	Pass
6	17114.324	55.20	74.0	18.80	Peak	31.00	200	Vertical	Pass
6**	17114.324	46.11	54.0	7.89	AV	31.00	200	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11ax20(SU) Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1531.200	42.78	74.0	31.22	Peak	191.00	300	Horizontal	Pass
1**	1531.200	32.79	54.0	21.21	AV	191.00	300	Horizontal	Pass
2	2438.800	112.06	74.0	-38.06	Peak	69.00	100	Horizontal	N/A
2**	2438.800	102.99	54.0	-48.99	AV	69.00	100	Horizontal	N/A
3	4838.000	49.54	74.0	24.46	Peak	360.00	150	Horizontal	Pass
3**	4838.000	39.66	54.0	14.34	AV	360.00	150	Horizontal	Pass
4	7941.500	54.26	74.0	19.74	Peak	55.00	200	Horizontal	Pass
4**	7941.500	45.32	54.0	8.68	AV	55.00	200	Horizontal	Pass
5	12489.463	52.94	74.0	21.06	Peak	312.00	100	Horizontal	Pass
5**	12489.463	44.06	54.0	9.94	AV	312.00	100	Horizontal	Pass
6	17146.350	55.47	74.0	18.53	Peak	116.00	100	Horizontal	Pass
6**	17146.350	45.24	54.0	8.76	AV	116.00	100	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11ax20(SU) Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1329.000	45.15	74.0	28.85	Peak	202.00	400	Vertical	Pass
1**	1329.000	34.32	54.0	19.68	AV	202.00	400	Vertical	Pass
2	2438.700	106.44	74.0	-32.44	Peak	79.00	150	Vertical	N/A
2**	2438.700	97.80	54.0	-43.80	AV	79.00	150	Vertical	N/A
3	4996.250	49.82	74.0	24.18	Peak	247.00	100	Vertical	Pass
3**	4996.250	39.91	54.0	14.09	AV	247.00	100	Vertical	Pass
4	7798.500	51.63	74.0	22.37	Peak	53.00	100	Vertical	Pass
4**	7798.500	46.73	54.0	7.27	AV	53.00	100	Vertical	Pass
5	12498.725	53.34	74.0	20.66	Peak	11.00	100	Vertical	Pass
5**	12498.725	43.85	54.0	10.15	AV	11.00	100	Vertical	Pass
6	17034.000	55.51	74.0	18.49	Peak	256.00	300	Vertical	Pass
6**	17034.000	45.87	54.0	8.13	AV	256.00	300	Vertical	Pass

1 GHz to 18 GHz, ANT H802.11ax20(SU) High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1300.200	42.23	74.0	31.77	Peak	141.00	300	Horizontal	Pass
1**	1300.200	33.41	54.0	20.59	AV	141.00	300	Horizontal	Pass
2	2459.400	109.51	74.0	-35.51	Peak	141.00	150	Horizontal	N/A
2**	2459.400	99.61	54.0	-45.61	AV	141.00	150	Horizontal	N/A
3	4951.750	49.26	74.0	24.74	Peak	288.00	100	Horizontal	Pass
3**	4951.750	39.51	54.0	14.49	AV	288.00	100	Horizontal	Pass
4	7878.750	54.49	74.0	19.51	Peak	94.00	100	Horizontal	Pass
4**	7878.750	49.21	54.0	4.79	AV	94.00	100	Horizontal	Pass
5	12530.312	53.97	74.0	20.03	Peak	45.00	200	Horizontal	Pass
5**	12530.312	42.98	54.0	11.02	AV	45.00	200	Horizontal	Pass
6	17003.551	55.28	74.0	18.72	Peak	72.00	400	Horizontal	Pass
6**	17003.551	46.35	54.0	7.65	AV	72.00	400	Horizontal	Pass

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No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1333.100	45.37	74.0	28.63	Peak	154.00	400	Vertical	Pass
1**	1333.100	32.88	54.0	21.12	AV	154.00	400	Vertical	Pass
2	2464.500	102.53	74.0	-28.53	Peak	50.00	200	Vertical	N/A
2**	2464.500	91.77	54.0	-37.77	AV	50.00	200	Vertical	N/A
3	5322.250	52.87	74.0	21.13	Peak	111.00	100	Vertical	Pass
3**	5322.250	41.03	54.0	12.97	AV	111.00	100	Vertical	Pass
4	7878.750	53.51	74.0	20.49	Peak	344.00	100	Vertical	Pass
4**	7878.750	50.51	54.0	3.49	AV	344.00	100	Vertical	Pass
5	13051.612	55.04	74.0	18.96	Peak	196.00	100	Vertical	Pass
5**	13051.612	44.02	54.0	9.98	AV	196.00	100	Vertical	Pass
6	16087.950	54.37	74.0	19.63	Peak	12.00	100	Vertical	Pass
6**	16087.950	44.69	54.0	9.31	AV	12.00	100	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11ax40(SU) Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1497.700	43.11	74.0	30.89	Peak	351.00	400	Horizontal	Pass
1**	1497.700	32.11	54.0	21.89	AV	351.00	400	Horizontal	Pass
2	2424.300	107.87	74.0	-33.87	Peak	142.00	100	Horizontal	N/A
2**	2424.300	99.68	54.0	-45.68	AV	142.00	100	Horizontal	N/A
3	4808.250	49.09	74.0	24.91	Peak	35.00	100	Horizontal	Pass
3**	4808.250	39.67	54.0	14.33	AV	35.00	100	Horizontal	Pass
4	7750.750	51.54	74.0	22.46	Peak	111.00	100	Horizontal	Pass
4**	7750.750	47.61	54.0	6.39	AV	111.00	100	Horizontal	Pass
5	12985.725	53.35	74.0	20.65	Peak	264.00	300	Horizontal	Pass
5**	12985.725	43.92	54.0	10.08	AV	264.00	300	Horizontal	Pass
6	17102.775	55.32	74.0	18.68	Peak	198.00	200	Horizontal	Pass
6**	17102.775	45.95	54.0	8.05	AV	198.00	200	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11ax40(SU) Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1331.000	45.84	74.0	28.16	Peak	191.00	200	Vertical	Pass
1**	1331.000	33.39	54.0	20.61	AV	191.00	200	Vertical	Pass
2	2418.500	100.54	74.0	-26.54	Peak	52.00	200	Vertical	N/A
2**	2418.500	93.94	54.0	-39.94	AV	52.00	200	Vertical	N/A
3	6913.250	54.19	74.0	19.81	Peak	344.00	100	Vertical	Pass
3**	6913.250	44.10	54.0	9.90	AV	344.00	100	Vertical	Pass
4	7750.500	51.43	74.0	22.57	Peak	171.00	100	Vertical	Pass
4**	7750.500	47.45	54.0	6.55	AV	171.00	100	Vertical	Pass
5	12949.763	53.93	74.0	20.07	Peak	132.00	100	Vertical	Pass
5**	12949.763	43.12	54.0	10.88	AV	132.00	100	Vertical	Pass
6	17114.063	55.54	74.0	18.46	Peak	87.00	100	Vertical	Pass
6**	17114.063	45.10	54.0	8.90	AV	87.00	100	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11ax40(SU) Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1367.300	41.70	74.0	32.30	Peak	0.00	300	Horizontal	Pass
1**	1367.300	32.23	54.0	21.77	AV	0.00	300	Horizontal	Pass
2	2434.700	109.45	74.0	-35.45	Peak	132.00	150	Horizontal	N/A
2**	2434.700	100.70	54.0	-46.70	AV	132.00	150	Horizontal	N/A
3	4956.250	49.16	74.0	24.84	Peak	133.00	100	Horizontal	Pass
3**	4956.250	39.63	54.0	14.37	AV	133.00	100	Horizontal	Pass
4	7641.000	53.31	74.0	20.69	Peak	324.00	200	Horizontal	Pass
4**	7641.000	43.79	54.0	10.21	AV	324.00	200	Horizontal	Pass
5	12500.388	53.51	74.0	20.49	Peak	11.00	100	Horizontal	Pass
5**	12500.388	43.91	54.0	10.09	AV	11.00	100	Horizontal	Pass
6	17061.562	55.06	74.0	18.94	Peak	195.00	200	Horizontal	Pass
6**	17061.562	45.50	54.0	8.50	AV	195.00	200	Horizontal	Pass

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No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1162.800	45.54	74.0	28.46	Peak	122.00	400	Vertical	Pass
1**	1162.800	33.70	54.0	20.30	AV	122.00	400	Vertical	Pass
2	2439.900	105.84	74.0	-31.84	Peak	53.00	100	Vertical	N/A
2**	2439.900	95.90	54.0	-41.90	AV	53.00	100	Vertical	N/A
3	4922.250	49.24	74.0	24.76	Peak	268.00	200	Vertical	Pass
3**	4922.250	40.82	54.0	13.18	AV	268.00	200	Vertical	Pass
4	7963.000	53.98	74.0	20.02	Peak	286.00	400	Vertical	Pass
4**	7963.000	44.12	54.0	9.88	AV	286.00	400	Vertical	Pass
5	12497.299	53.96	74.0	20.04	Peak	360.00	300	Vertical	Pass
5**	12497.299	43.97	54.0	10.03	AV	360.00	300	Vertical	Pass
6	17016.675	55.34	74.0	18.66	Peak	0.00	100	Vertical	Pass
6**	17016.675	46.28	54.0	7.72	AV	0.00	100	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11ax40(SU) High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1489.200	42.55	74.0	31.45	Peak	229.00	400	Horizontal	Pass
1**	1489.200	33.08	54.0	20.92	AV	229.00	400	Horizontal	Pass
2	2454.500	105.96	74.0	-31.96	Peak	125.00	100	Horizontal	N/A
2**	2454.500	97.00	54.0	-43.00	AV	125.00	100	Horizontal	N/A
3	4840.500	49.17	74.0	24.83	Peak	360.00	200	Horizontal	Pass
3**	4840.500	41.25	54.0	12.75	AV	360.00	200	Horizontal	Pass
4	7846.750	51.38	74.0	22.62	Peak	303.00	100	Horizontal	Pass
4**	7846.750	47.26	54.0	6.74	AV	303.00	100	Horizontal	Pass
5	12541.475	53.35	74.0	20.65	Peak	261.00	200	Horizontal	Pass
5**	12541.475	44.19	54.0	9.81	AV	261.00	200	Horizontal	Pass
6	16851.037	55.16	74.0	18.84	Peak	0.00	200	Horizontal	Pass
6**	16851.037	45.48	54.0	8.52	AV	0.00	200	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11ax40(SU) High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1162.500	43.88	74.0	30.12	Peak	107.00	400	Vertical	Pass
1**	1162.500	33.51	54.0	20.49	AV	107.00	400	Vertical	Pass
2	2450.500	96.56	74.0	-22.56	Peak	54.00	150	Vertical	N/A
2**	2450.500	89.33	54.0	-35.33	AV	54.00	150	Vertical	N/A
3	4930.000	49.17	74.0	24.83	Peak	274.00	200	Vertical	Pass
3**	4930.000	39.96	54.0	14.04	AV	274.00	200	Vertical	Pass
4	7934.000	53.83	74.0	20.17	Peak	41.00	200	Vertical	Pass
4**	7934.000	45.23	54.0	8.77	AV	41.00	200	Vertical	Pass
5	12511.787	53.10	74.0	20.90	Peak	360.00	300	Vertical	Pass
5**	12511.787	43.41	54.0	10.59	AV	360.00	300	Vertical	Pass
6	17014.313	55.03	74.0	18.97	Peak	0.00	100	Vertical	Pass
6**	17014.313	46.19	54.0	7.81	AV	0.00	100	Vertical	Pass

5.8 Band Edge (Restricted-band band-edge)

5.8.1 Limit

FCC §15.209&15.247(d)

Radiated emission outside the frequency band attenuation below the general limits specified in FCC section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in FCC section 15.205(a), must also comply with the radiated emission limits specified in FCC section 15.209(a).

5.8.2 Test Setup

See section 4.5.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX A.

5.8.3 Test Procedure

The measurement frequency range is from 9 kHz to the 10th harmonic of the fundamental frequency. The Turn Table is actuated to turn from 0° to 360°, and both horizontal and vertical polarizations of the Test Antenna are used to find the maximum radiated power. Mid channels on all channel bandwidth verified. Only the worst RB size/offset presented.

The power of the EUT transmitting frequency should be ignored.

All Spurious Emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

Use the following spectrum analyzer settings:

Span = wide enough to fully capture the emission being measured

RBW = 1 MHz for $f \geq 1$ GHz, 100 kHz for $f < 1$ GHz

VBW $\geq$ RBW

Sweep = auto

Detector function = peak

Trace = max hold

For measurement below 1GHz, If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported, Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

For transmitters operating above 1 GHz repeat the measurement with an average detector.

5.8.4 Test Result

Note 1: The lowest and highest channels are tested to verify the band edge emissions. Please refer to the following the plots for emissions values.

Note 2: The test data all are tested in the vertical and horizontal antenna which the trace is max hold. So these plots have shown the worst case.

Note 3: According the ANSI C63.10-2020, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

Note 4: All antenna were pre tested, but only the worst case has been reported in this report.

Note 5: All the configurations were pre tested, only the worst configuration has been reported in this report.

Note 6: Both horizontal and vertical directions were pre tested, only the worst configuration has been reported in this report.

Test Data

MIMO

802.11b LOW CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2336.667	65.10	74.0	8.90	Peak	31.00	100	Horizontal	Pass
1**	2336.667	44.41	54.0	9.59	AV	31.00	100	Horizontal	Pass
2	2389.833	55.67	74.0	18.33	Peak	138.00	100	Horizontal	Pass
2**	2389.833	45.76	54.0	8.24	AV	138.00	100	Horizontal	Pass

802.11b HIGH CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	59.16	74.0	14.84	Peak	130.00	200	Horizontal	Pass
1**	2483.500	45.71	54.0	8.29	AV	130.00	200	Horizontal	Pass
2	2494.850	60.93	74.0	13.07	Peak	130.00	100	Horizontal	Pass
2**	2494.850	44.98	54.0	9.02	AV	130.00	100	Horizontal	Pass

802.11g LOW CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2389.500	63.03	74.0	10.97	Peak	140.00	200	Horizontal	Pass
1**	2389.500	49.01	54.0	4.99	AV	140.00	200	Horizontal	Pass
2	2389.833	61.65	74.0	12.35	Peak	127.00	150	Horizontal	Pass
2**	2389.833	49.44	54.0	4.56	AV	127.00	150	Horizontal	Pass

802.11g HIGH CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.550	64.94	74.0	9.06	Peak	135.00	200	Horizontal	Pass
1**	2483.550	50.43	54.0	3.57	AV	135.00	200	Horizontal	Pass
2	2484.100	66.44	74.0	7.56	Peak	135.00	200	Horizontal	Pass
2**	2484.100	50.49	54.0	3.51	AV	135.00	200	Horizontal	Pass

802.11n20 LOW CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2385.000	62.42	74.0	11.58	Peak	132.00	150	Horizontal	Pass
1**	2385.000	46.60	54.0	7.40	AV	132.00	150	Horizontal	Pass
2	2389.833	62.16	74.0	11.84	Peak	134.00	100	Horizontal	Pass
2**	2389.833	48.79	54.0	5.21	AV	134.00	100	Horizontal	Pass
3	2389.500	60.79	74.0	13.21	Peak	132.00	100	Horizontal	Pass
3**	2389.500	49.46	54.0	4.54	AV	132.00	100	Horizontal	Pass

802.11n20 HIGH CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.550	62.97	74.0	11.03	Peak	140.00	200	Horizontal	Pass
1**	2483.550	50.28	54.0	3.72	AV	140.00	200	Horizontal	Pass
2	2483.850	63.16	74.0	10.84	Peak	130.00	100	Horizontal	Pass
2**	2483.850	49.98	54.0	4.02	AV	130.00	100	Horizontal	Pass

802.11n40 LOW CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2388.000	65.66	74.0	8.34	Peak	123.00	200	Horizontal	Pass
1**	2388.000	49.14	54.0	4.86	AV	123.00	200	Horizontal	Pass
2	2389.833	65.96	74.0	8.04	Peak	128.00	100	Horizontal	Pass
2**	2389.833	49.44	54.0	4.56	AV	128.00	100	Horizontal	Pass
3	2387.500	64.86	74.0	9.14	Peak	130.00	100	Horizontal	Pass
3**	2387.500	49.73	54.0	4.27	AV	130.00	100	Horizontal	Pass

802.11n40 HIGH CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.550	64.33	74.0	9.67	Peak	130.00	150	Horizontal	Pass
1**	2483.550	48.47	54.0	5.53	AV	130.00	150	Horizontal	Pass
2	2483.800	64.77	74.0	9.23	Peak	140.00	150	Horizontal	Pass
2**	2483.800	48.80	54.0	5.20	AV	140.00	150	Horizontal	Pass
3	2483.900	64.14	74.0	9.86	Peak	140.00	100	Horizontal	Pass
3**	2483.900	49.28	54.0	4.72	AV	140.00	100	Horizontal	Pass

802.11ax20(SU) LOW CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2389.667	65.02	74.0	8.98	Peak	130.00	150	Horizontal	Pass
1**	2389.667	50.48	54.0	3.52	AV	130.00	150	Horizontal	Pass
2	2389.833	64.45	74.0	9.55	Peak	132.00	200	Horizontal	Pass
2**	2389.833	50.31	54.0	3.69	AV	132.00	200	Horizontal	Pass

802.11ax20(SU) HIGH CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.550	63.12	74.0	10.88	Peak	130.00	150	Horizontal	Pass
1**	2483.550	50.32	54.0	3.68	AV	130.00	150	Horizontal	Pass
2	2484.000	63.75	74.0	10.25	Peak	137.00	150	Horizontal	Pass
2**	2484.000	49.96	54.0	4.04	AV	137.00	150	Horizontal	Pass
3	2483.800	63.28	74.0	10.72	Peak	127.00	100	Horizontal	Pass
3**	2483.800	50.85	54.0	3.15	AV	127.00	100	Horizontal	Pass

802.11ax40(SU) LOW CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2388.667	65.20	74.0	8.80	Peak	122.00	100	Horizontal	Pass
1**	2388.667	49.50	54.0	4.50	AV	122.00	100	Horizontal	Pass
2	2389.833	64.55	74.0	9.45	Peak	131.00	200	Horizontal	Pass
2**	2389.833	47.98	54.0	6.02	AV	131.00	200	Horizontal	Pass
3	2387.833	62.76	74.0	11.24	Peak	122.00	100	Horizontal	Pass
3**	2387.833	49.90	54.0	4.10	AV	122.00	100	Horizontal	Pass

802.11ax40(SU) HIGH CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	64.19	74.0	9.81	Peak	131.00	200	Horizontal	Pass
1**	2483.500	49.47	54.0	4.53	AV	131.00	200	Horizontal	Pass
2	2483.850	64.17	74.0	9.83	Peak	133.00	200	Horizontal	Pass
2**	2483.850	49.85	54.0	4.15	AV	133.00	200	Horizontal	Pass

5.9 Power Spectral density (PSD)

5.9.1 Limit

FCC §15.247(e)

The same method of determining the conducted output power shall be used to determine the power spectral density. If a peak output power is measured, then a peak power spectral density measurement is required. If an average output power is measured, then an average power spectral density measurement should be used.

5.9.2 Test Setup

See section 4.5.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX A.

5.9.3 Test Procedure

Set analyzer center frequency to DTS channel center frequency.

Set the span to 1.5 times the DTS bandwidth.

Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.

Set the VBW $\geq 3 \text{ RBW}$.

Detector = peak.

Sweep time = auto couple.

Trace mode = max hold.

Allow trace to fully stabilize.

Use the peak marker function to determine the maximum amplitude level within the RBW.

If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

5.9.4 Test Result

Note: All the configurations were pre tested, only the worst configuration has been reported in this report.

Test Data

SISO-Antenna 0

802.11b Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-9.85	8
Middle	-10.22	8
High	-9.00	8

802.11g Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-12.42	8
Middle	-13.06	8
High	-13.40	8

802.11n-20 MHz Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-12.12	8
Middle	-10.58	8
High	-15.30	8

802.11n-40 MHz Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-17.17	8
Middle	-12.18	8
High	-21.04	8

802.11ax-20 MHz(SU) Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-11.87	8
Middle	-8.91	8
High	-14.59	8

802.11ax-40 MHz(SU) Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-17.13	8
Middle	-13.33	8
High	-20.47	8

SISO-Antenna 1

802.11b Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-9.81	8
Middle	-10.51	8
High	-9.76	8

802.11g Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-13.75	8
Middle	-12.01	8
High	-12.36	8

802.11n-20 MHz Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-11.32	8
Middle	-9.62	8
High	-13.81	8

802.11n-40 MHz Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-17.08	8
Middle	-12.84	8
High	-20.43	8

802.11ax-20 MHz(SU) Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-11.61	8
Middle	-10.21	8
High	-14.51	8

802.11ax-40 MHz(SU) Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-17.41	8
Middle	-13.17	8
High	-19.78	8

MIMO

802.11b Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-6.82	8
Middle	-7.35	8
High	-6.35	8

802.11g Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-10.02	8
Middle	-9.49	8
High	-9.84	8

802.11n-20 MHz Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-8.69	8
Middle	-7.06	8
High	-11.48	8

802.11n-40 MHz Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-14.11	8
Middle	-9.48	8
High	-17.72	8

802.11ax-20 MHz(SU) Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-8.73	8
Middle	-6.50	8
High	-11.54	8

802.11ax-40 MHz(SU) Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-14.26	8
Middle	-10.24	8
High	-17.10	8

Test Plots

SISO-Antenna 0

802.11b LOW CHANNEL



802.11b MIDDLE CHANNEL



802.11b HIGH CHANNEL



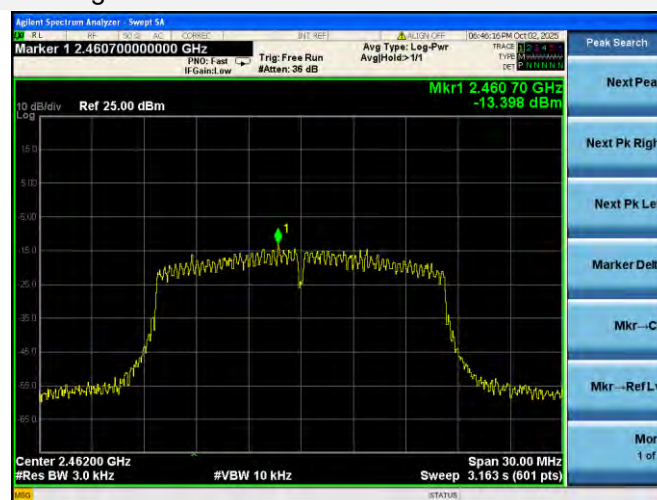
802.11g LOW CHANNEL



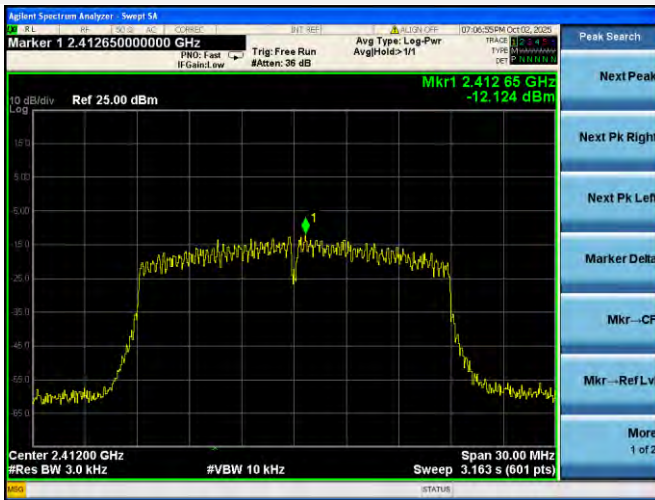
802.11g MIDDLE CHANNEL



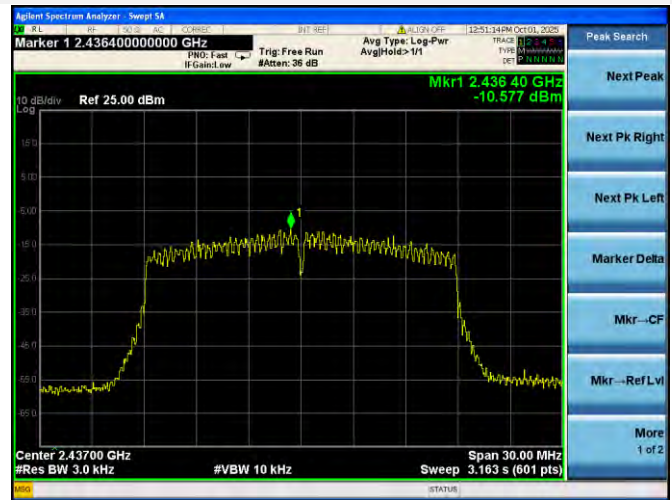
802.11g HIGH CHANNEL



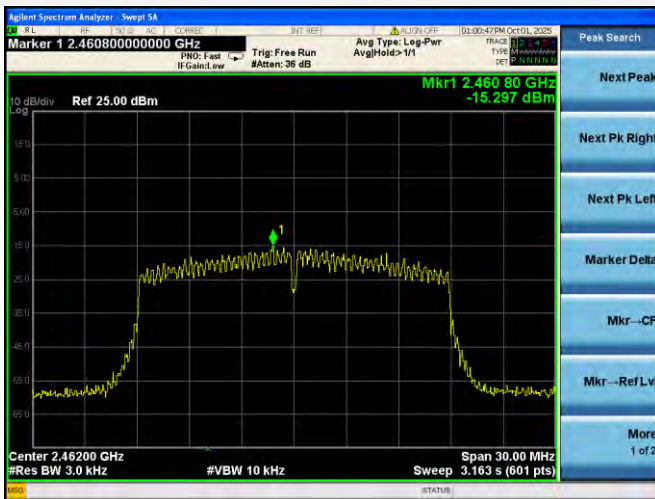
802.11n-20 MHz LOW CHANNEL



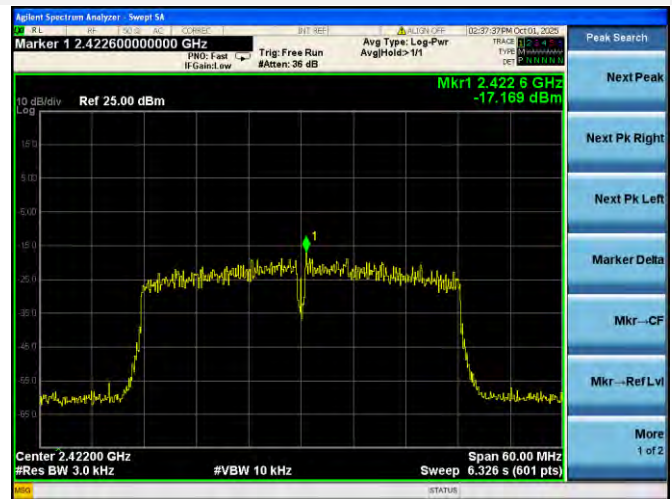
802.11n-20 MHz MIDDLE CHANNEL



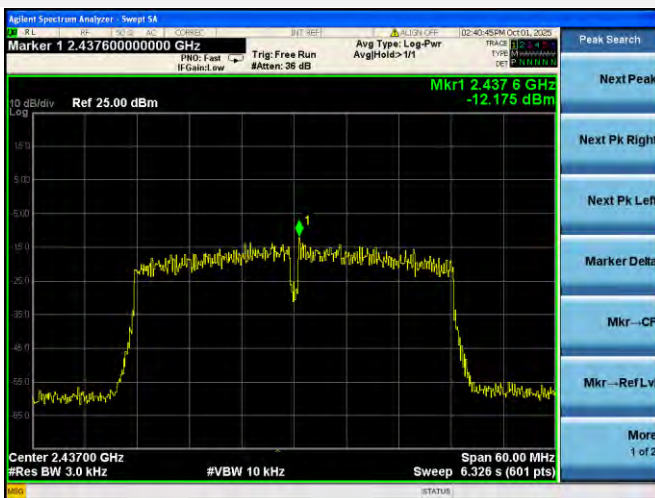
802.11n-20 MHz HIGH CHANNEL



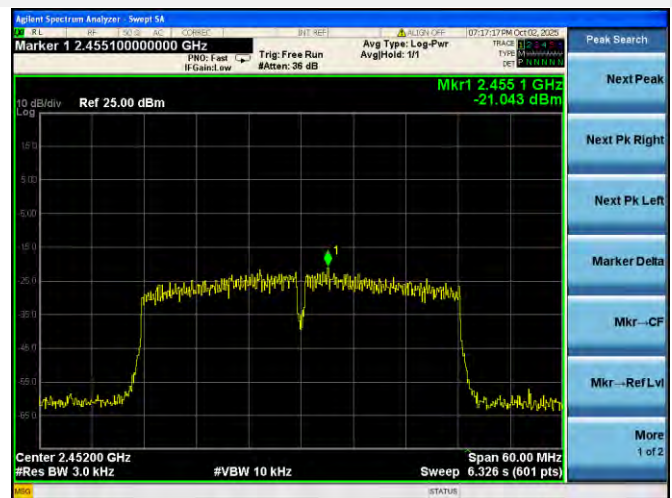
802.11n-40 MHz LOW CHANNEL



802.11n-40 MHz MIDDLE CHANNEL



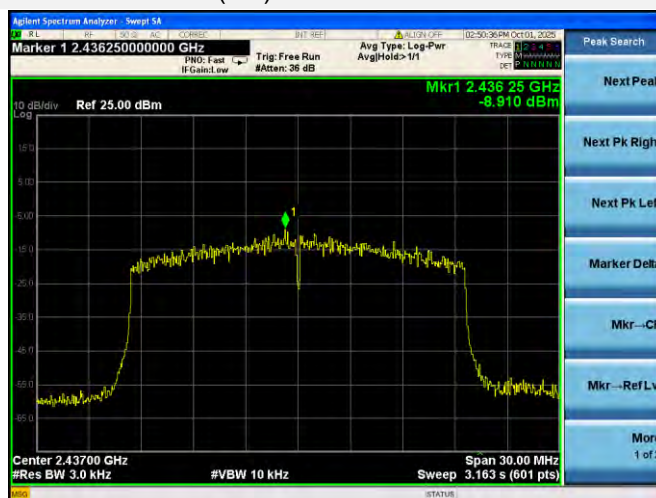
802.11n-40 MHz HIGH CHANNEL



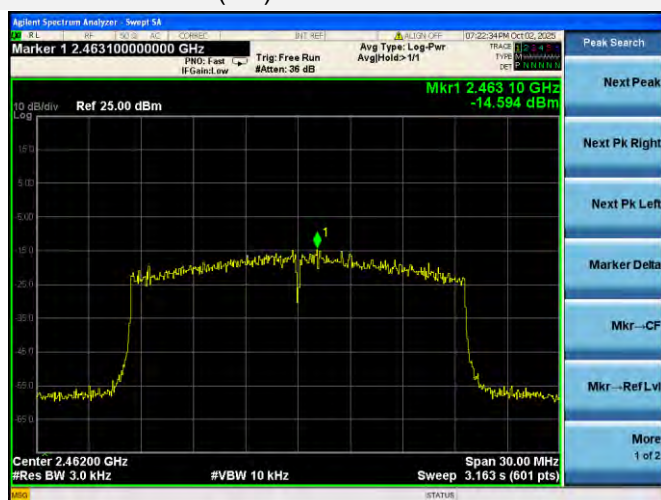
802.11ax-20 MHz(SU) LOW CHANNEL



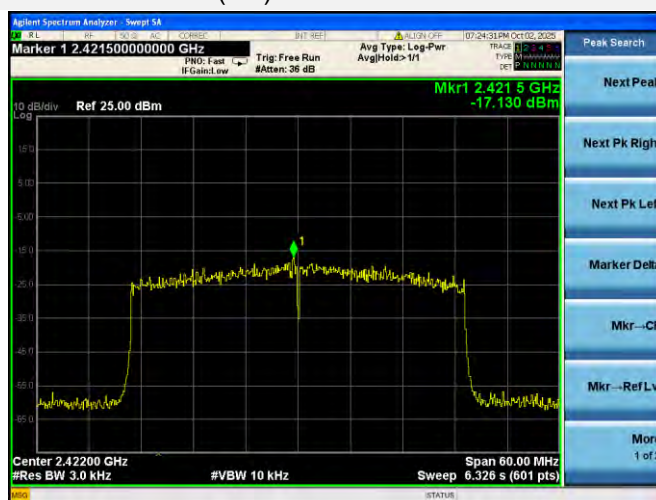
802.11ax-20 MHz(SU) MIDDLE CHANNEL



802.11ax-20 MHz(SU) HIGH CHANNEL



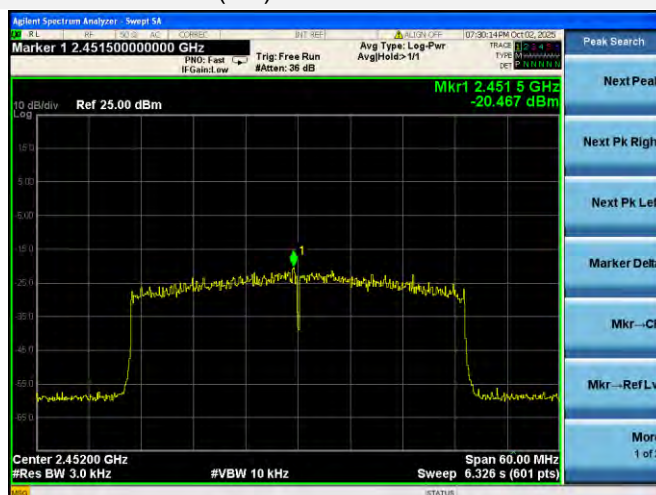
802.11ax-40 MHz(SU) LOW CHANNEL



802.11ax-40 MHz(SU) MIDDLE CHANNEL



802.11ax-40 MHz(SU) HIGH CHANNEL



SISO-Antenna 1

802.11b LOW CHANNEL



802.11b MIDDLE CHANNEL



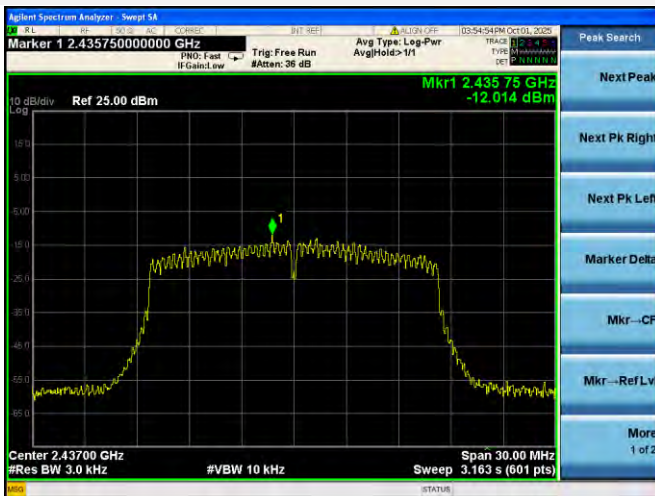
802.11b HIGH CHANNEL



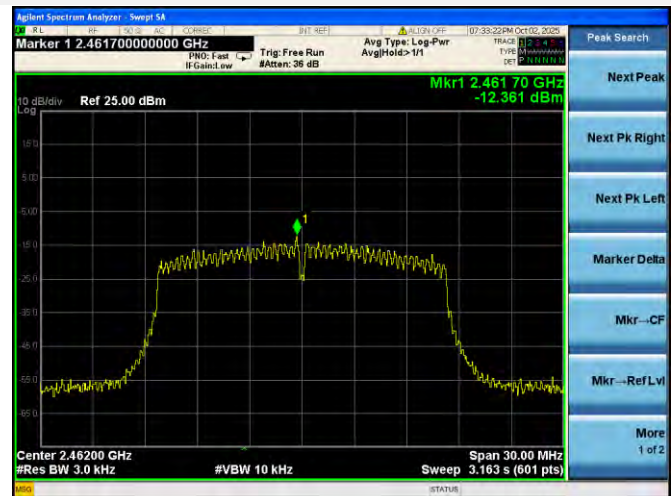
802.11g LOW CHANNEL



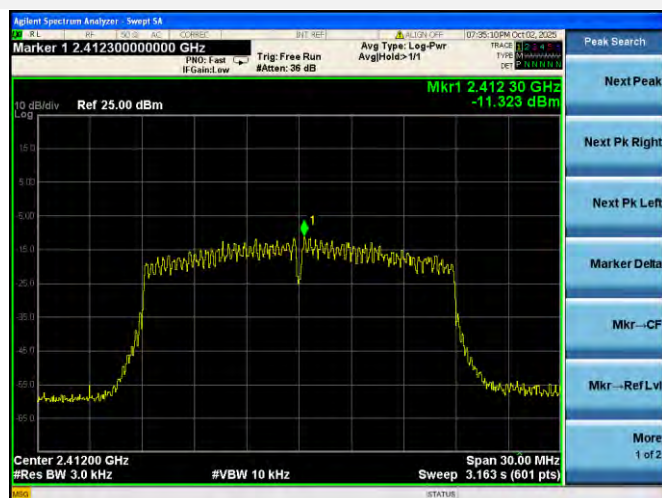
802.11g MIDDLE CHANNEL



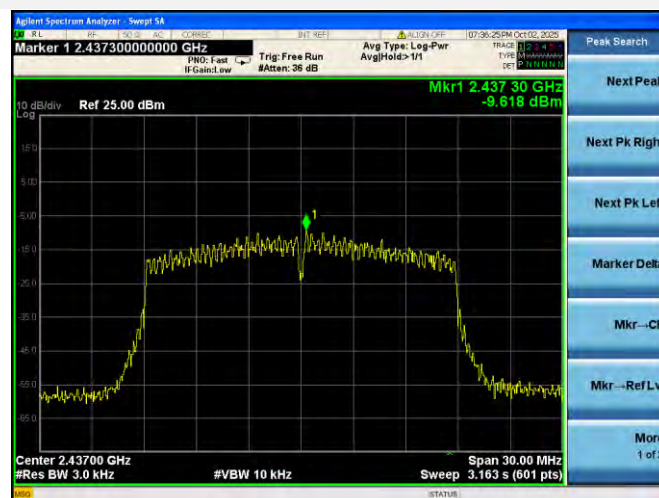
802.11g HIGH CHANNEL



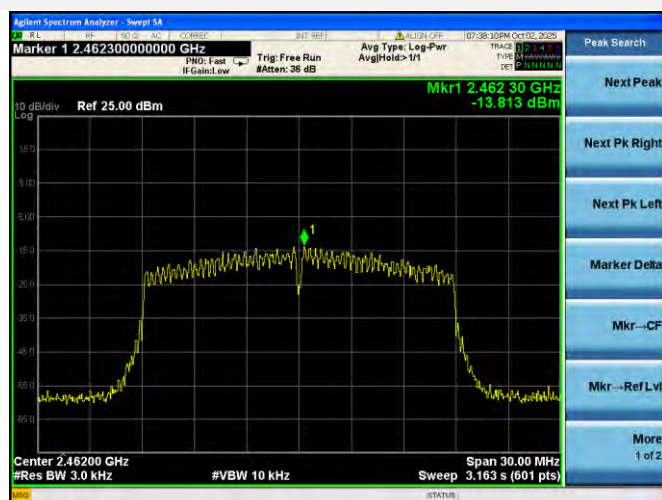
802.11n-20 MHz LOW CHANNEL



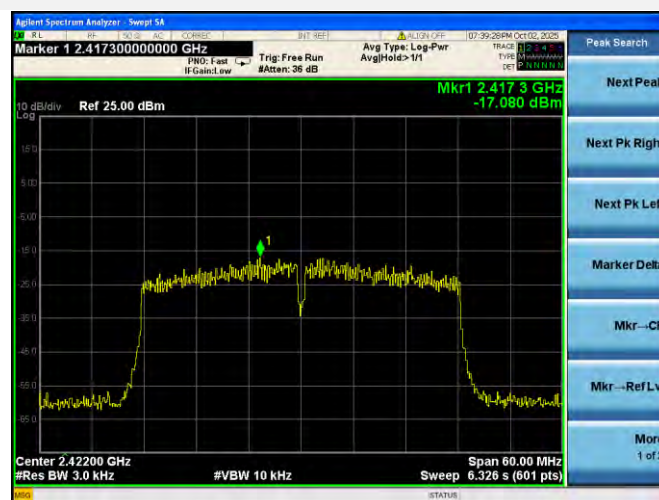
802.11n-20 MHz MIDDLE CHANNEL



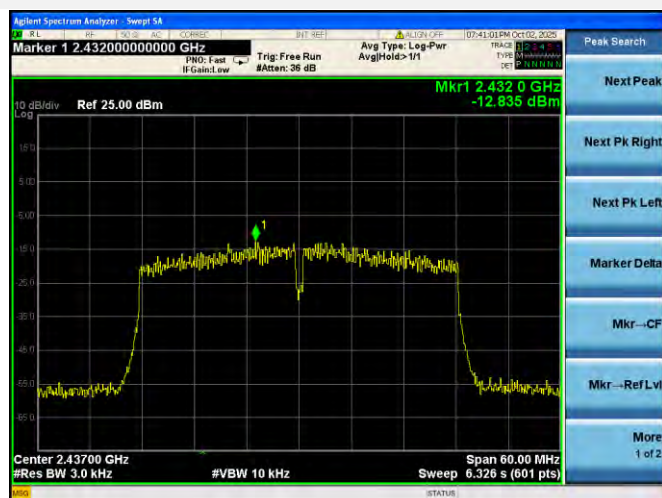
802.11n-20 MHz HIGH CHANNEL



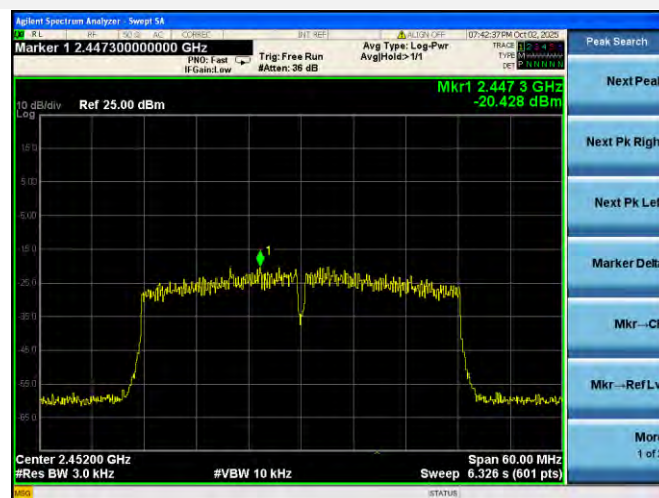
802.11n-40 MHz LOW CHANNEL



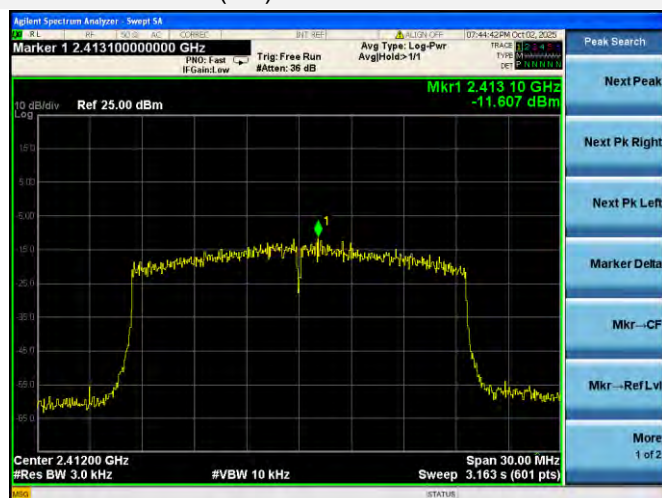
802.11n-40 MHz MIDDLE CHANNEL



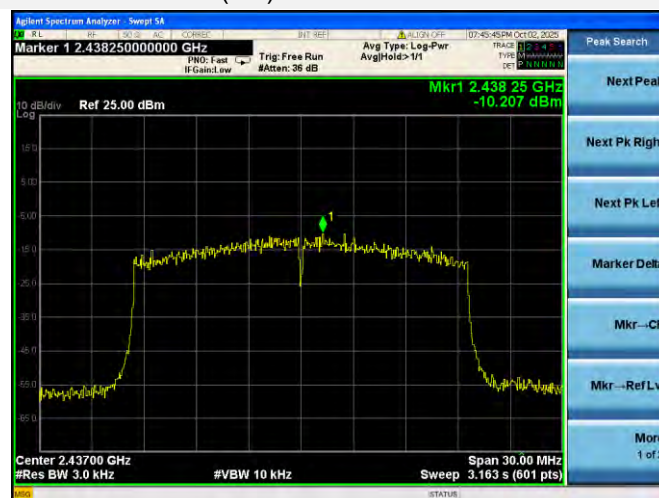
802.11n-40 MHz HIGH CHANNEL



802.11ax-20 MHz(SU) LOW CHANNEL



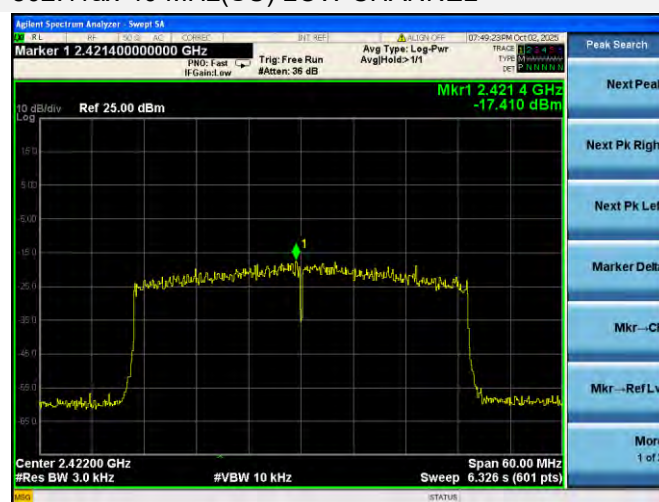
802.11ax-20 MHz(SU) MIDDLE CHANNEL



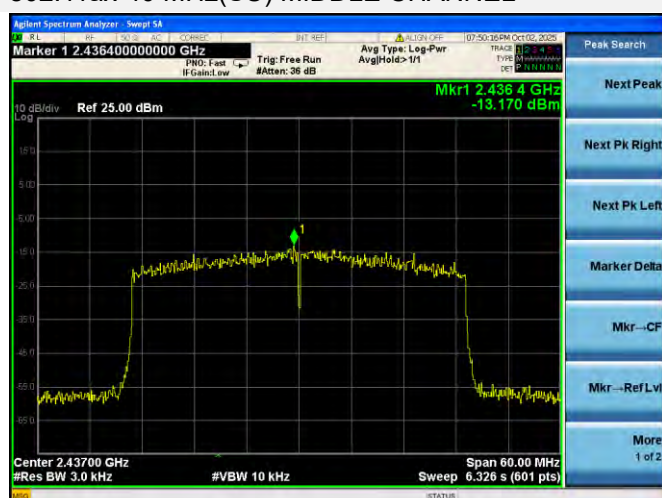
802.11ax-20 MHz(SU) HIGH CHANNEL



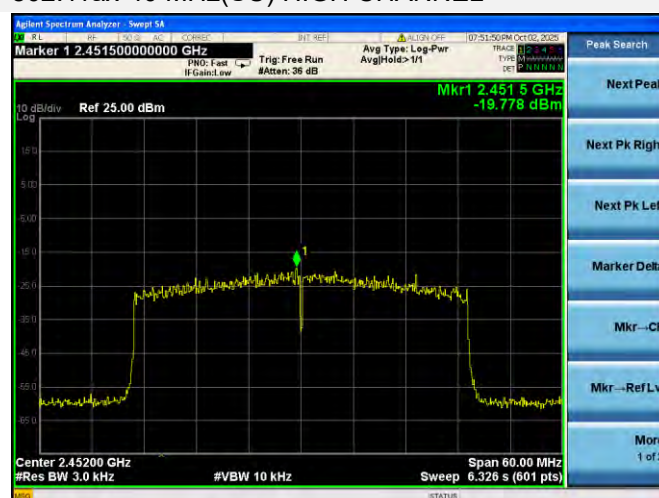
802.11ax-40 MHz(SU) LOW CHANNEL



802.11ax-40 MHz(SU) MIDDLE CHANNEL



802.11ax-40 MHz(SU) HIGH CHANNEL



ANNEX A TEST SETUP PHOTOS

1 Radiated Test Photo

Below 30MHz



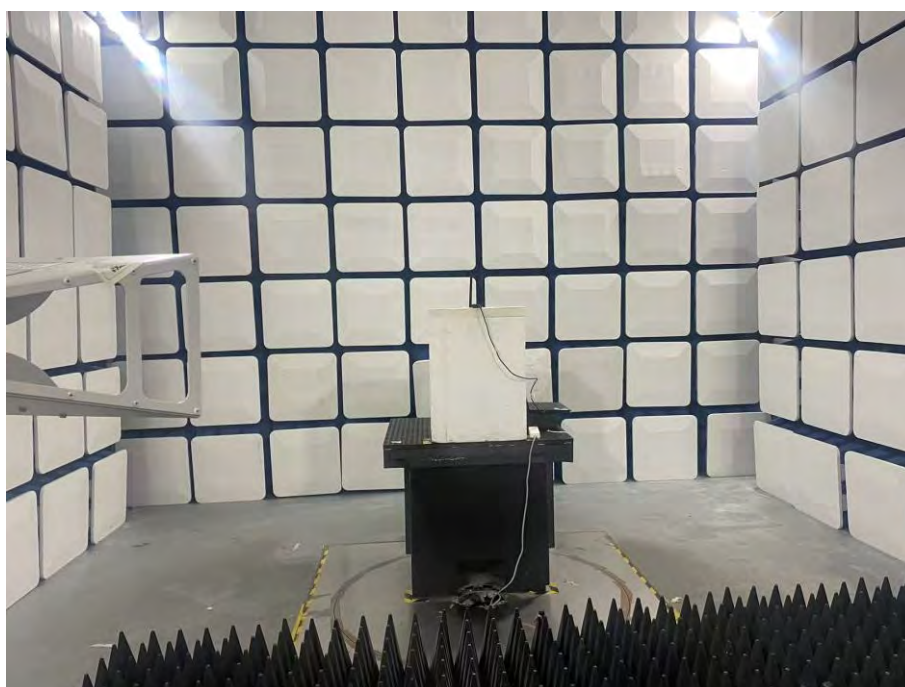
30MHz-1GHz



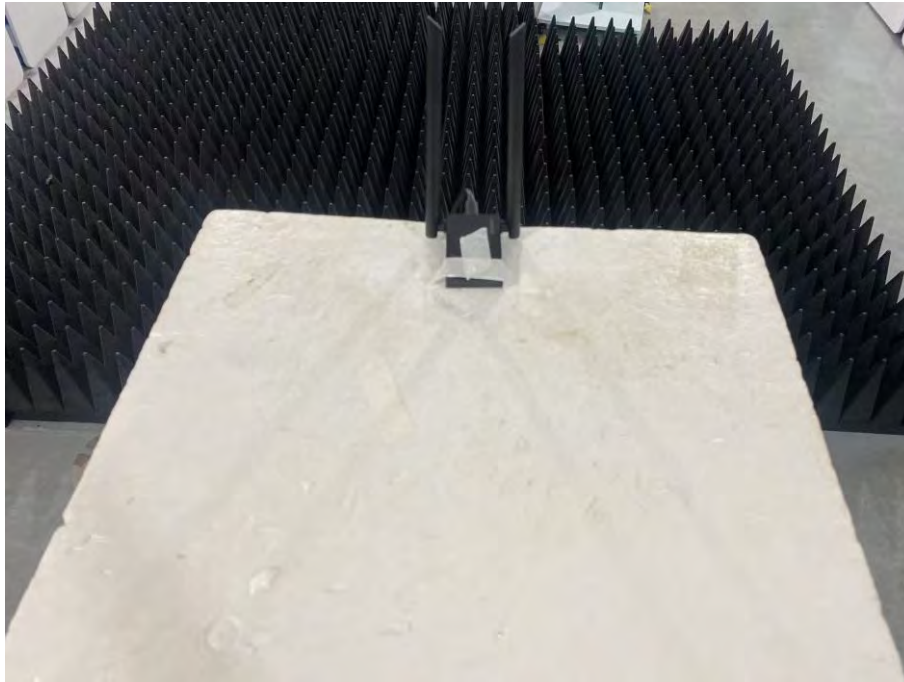
Close-up



Above 1GHz

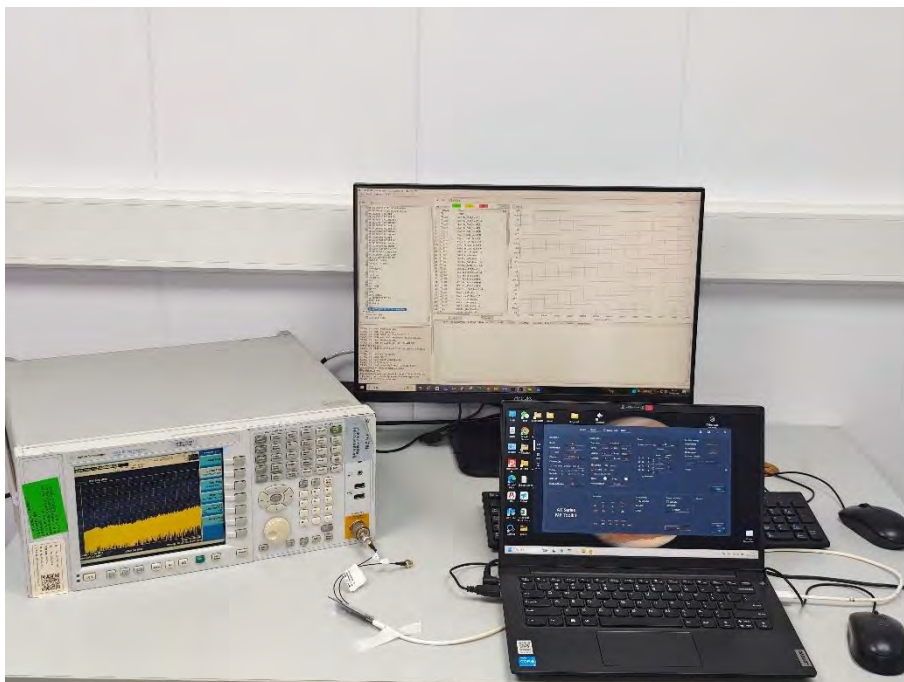


Close-up



2 Conducted Test Photo

Conducted Test



3 Conducted Emission

Photo 1

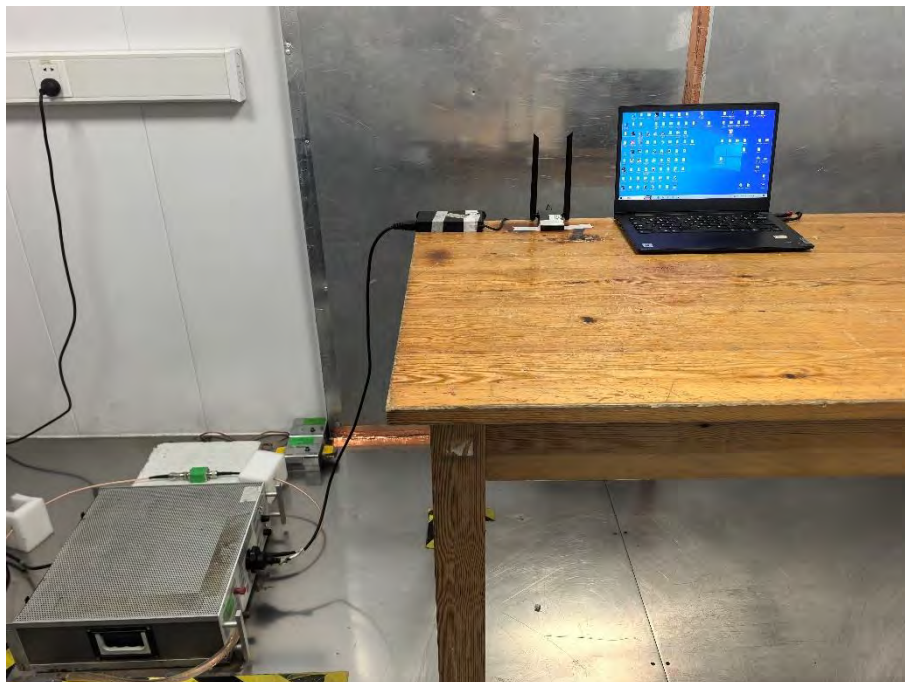


Photo 2



ANNEX B EUT EXTERNAL PHOTOS

FRONT VIEW OF EUT



REAR VIEW OF EUT



LEFT VIEW OF EUT



RIGHT VIEW OF EUT



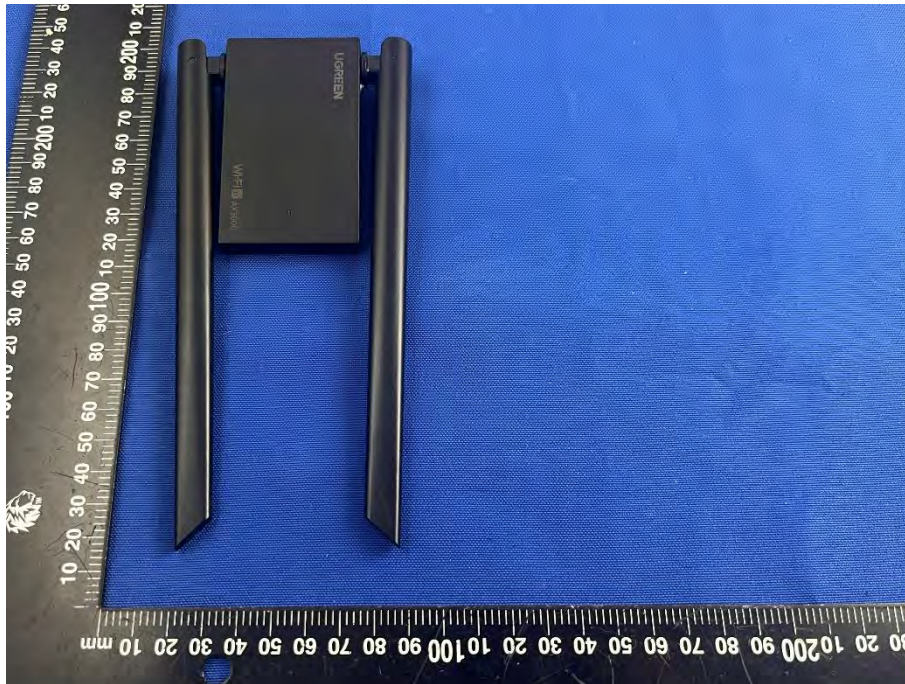
TOP VIEW OF EUT



CLOSE-UP



BOTTOM VIEW OF EUT

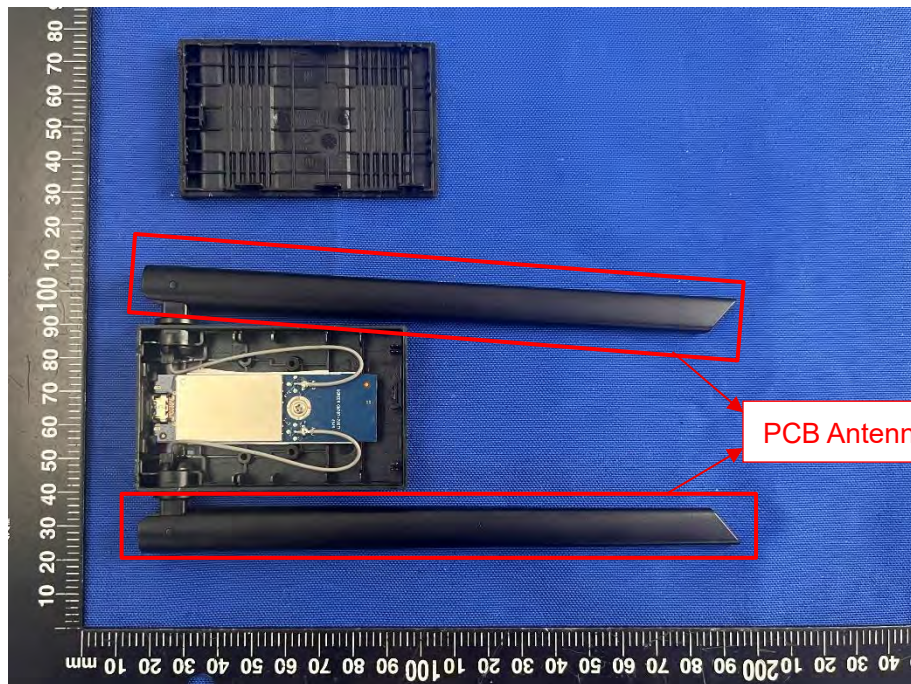


Accessory-Type-C Cable

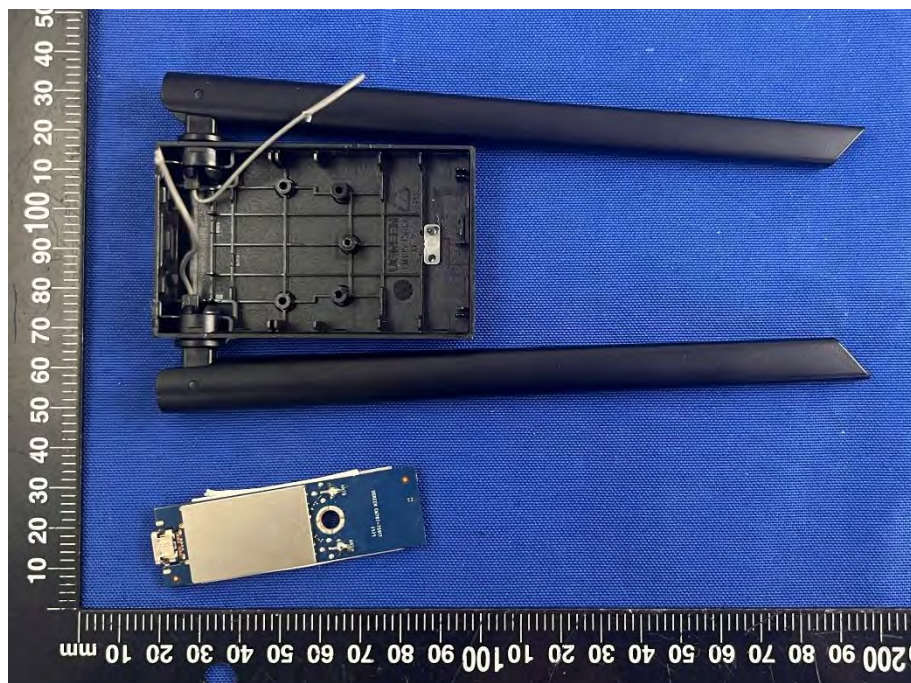


ANNEX C EUT INTERNAL PHOTOS

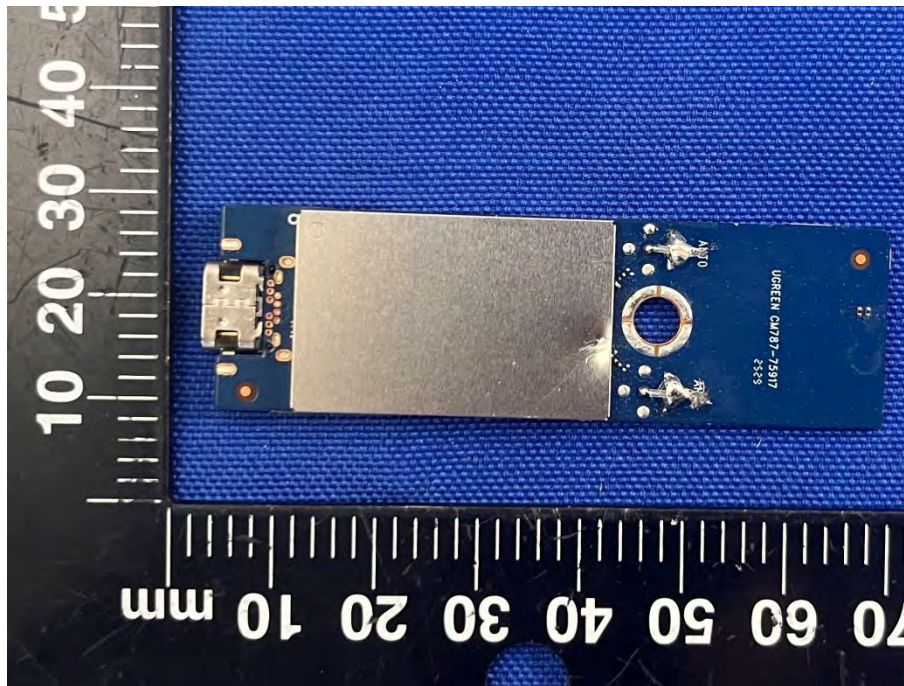
EUT UNCOVER VIEW 1



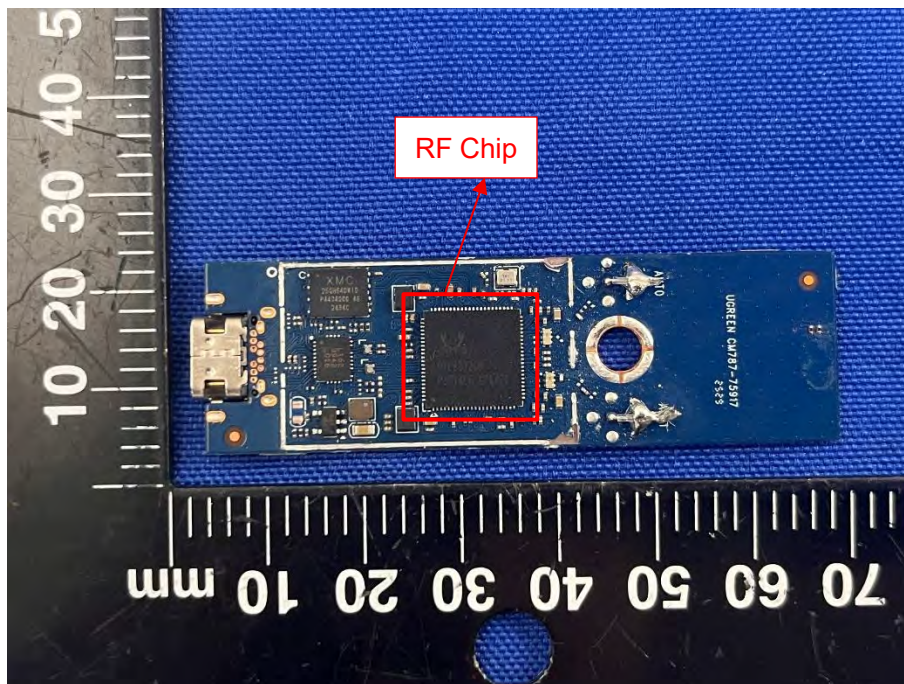
EUT UNCOVER VIEW 2



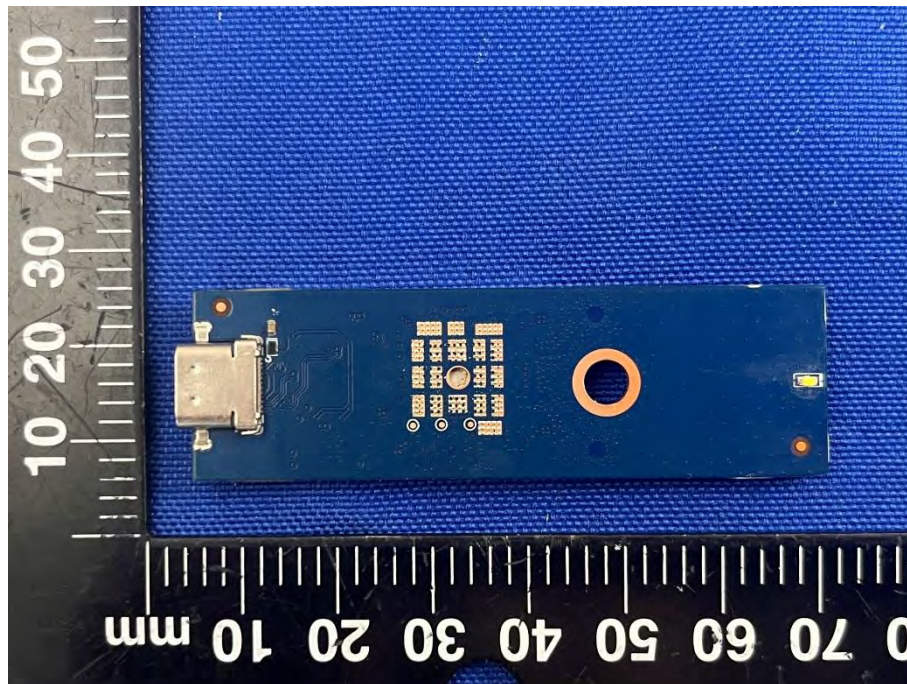
MAIN BOARD TOP VIEW (WITH SHIELDING)



MAIN BOARD TOP VIEW (WITHOUT SHIELDING)



MAIN BOARD REAR VIEW (WITH SHIELDING)



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--END OF REPORT--