

Horizontal Radiated Spurious Emissions Plot – 30 to 1000 MHz (802.11g NOHT, 2437MHz) Worst-Case presented

SGS NA, San Diego Regulatory Lab

Customer / Model # - Alarm.Com / V730

Serial # - N/A

Test Mode - TX

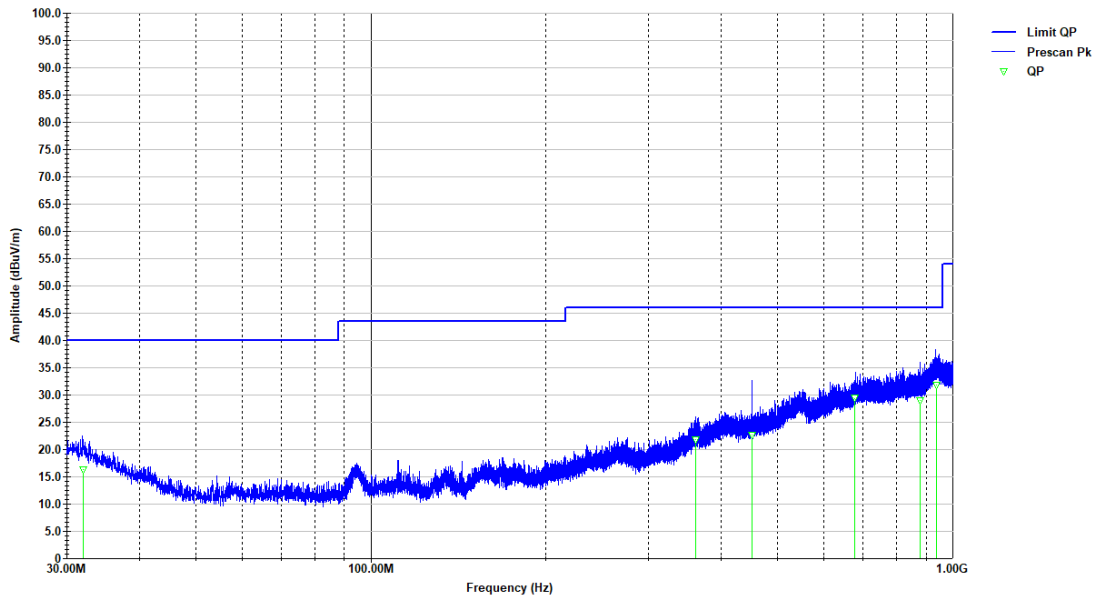
Operator - AG

Standard - FCC 15.247

Comments - 2437MHz, 802.11g NOHT, 12 Mbps, pwr 68

Radiated Emissions

Horizontal QP



2437 6 12 FCC 15.247 RE 30M-1GHz.ttl

Last Data Update 03:11:20 PM, Thursday, August 08, 2024

Quasi-Peak Data

Freq. (MHz)	Final QP (dBuV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBuV/m)	Ant. Height (cm)	Azimuth (deg.)
31.9903	16.35	-22.37	-23.65	40	232	233
361.4613	21.87	-20.49	-24.15	46.02	137	193
452.397323	22.61	-18.35	-23.41	46.02	217	210
677.686699	29.4	-12.3	-16.62	46.02	216	144
877.96807	28.96	-11.17	-17.06	46.02	240	359
937.879861	31.82	-8.32	-14.2	46.02	146	362

Vertical Radiated Spurious Emissions Plot – 30 to 1000 MHz (802.11g NOHT, 2437MHz) Worst-Case presented

SGS NA, San Diego Regulatory Lab

Customer / Model # - Alarm.Com / V730

Serial # - N/A

Test Mode - TX

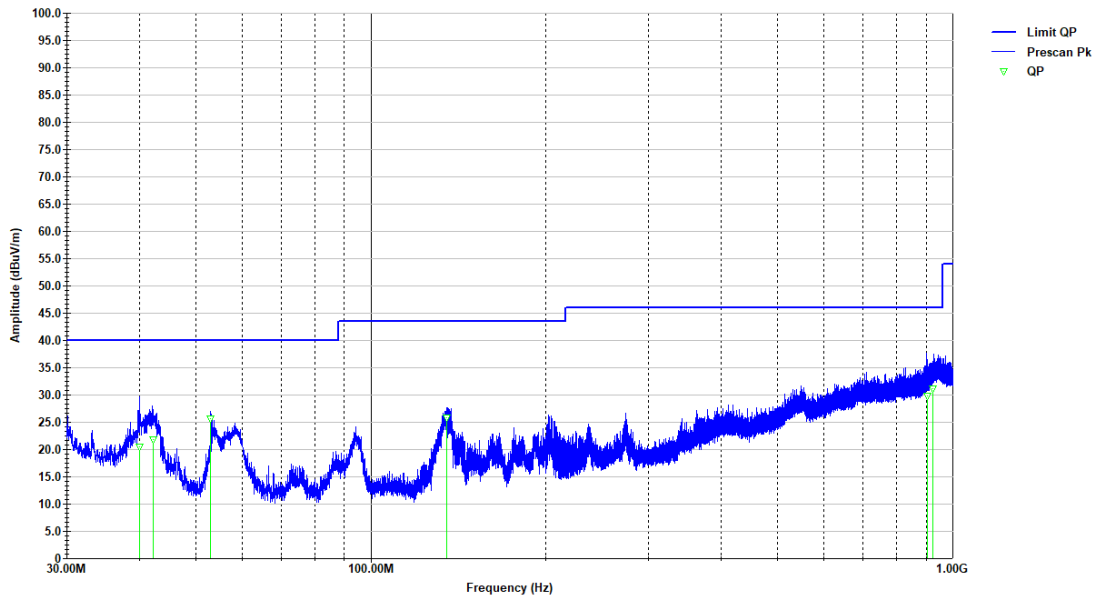
Operator - AG

Standard - FCC 15.247

Comments - 2437MHz, 802.11g NOHT, 12 Mbps, pwr 68

Radiated Emissions

Vertical QP



2437 6 12 FCC 15.247 RE 30M-1GHz.ttl

Last Data Update 02:53:23 PM, Thursday, August 08, 2024

Quasi-Peak Data

Freq. (MHz)	Final QP (dBuV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBuV/m)	Ant. Height (cm)	Azimuth (deg.)
40.025173	20.55	-27	-19.45	40	106	22
42.171988	21.9	-28.13	-18.1	40	122	157
52.982312	25.62	-30.67	-14.38	40	106	18
134.731111	25.81	-29.61	-17.71	43.52	100	287
903.318346	29.86	-10.15	-16.16	46.02	282	110
923.611552	31.12	-8.83	-14.9	46.02	329	187

Horizontal Radiated Spurious Emissions Plot – 1-18GHz (802.11g NOHT, 2412MHz)

SGS NA, San Diego Regulatory Lab

Client/Model - Alarm.Com / V730

Radiated Emissions

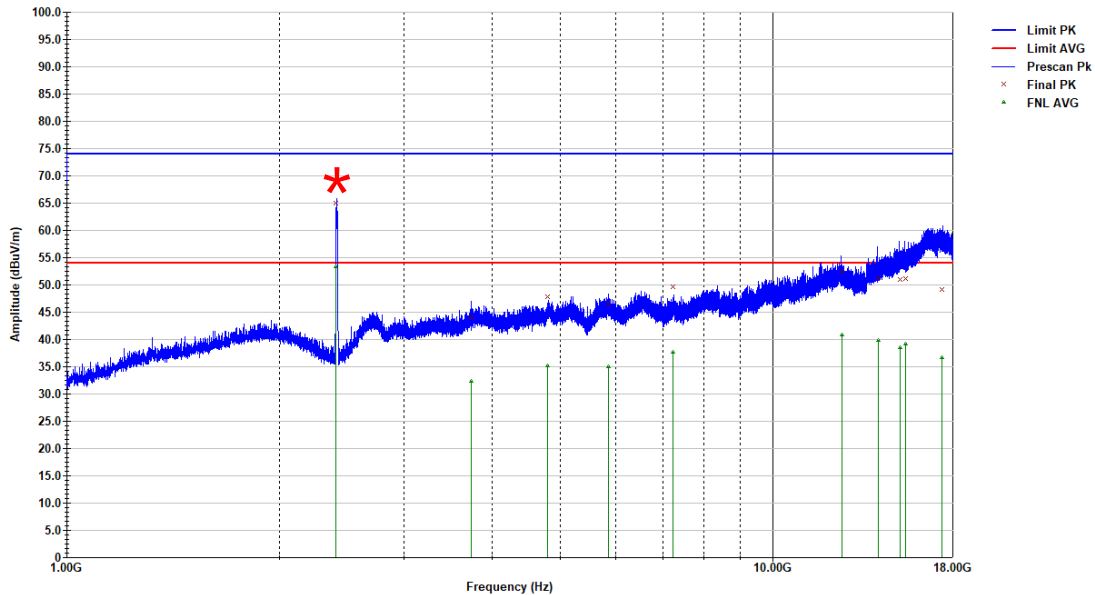
Test Mode - TX, 2.97 GHz HPF

Operator - AG

Horizontal AVG

Standard - FCC 15.247

Comments - 2412 MHz, 802.11g NOHT, 48 Mbps, pwr 62



2412 48 62 RECISPR SW1A NC 3117 w lambda lna AVG 1G-18G 06Feb2024.ttl

Last Data Update 10:39:37 AM, Tuesday, July 23, 2024

(*) marks TX signal from the EUT which are excluded from measurement

Peak Data

Freq. (MHz)	Final PK (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
2404.695	64.91	-0.48	(*)	(*)	276	205
3736.602	44.04	3.37	-29.96	74	194	359
4800.13	47.8	6.58	-26.2	74	385	70
5852.272	46.48	9.57	-27.52	74	293	20
7228.401	49.64	12.49	-24.36	74	150	245
12534.112	52.57	26.04	-21.43	74	150	130
14099.75	51.26	26.67	-22.74	74	186	186
15174.711	50.94	28.78	-23.06	74	379	96
15437.104	51.09	29.53	-22.91	74	280	42
17362.19	49.11	32.35	-24.89	74	293	-20

Average

Freq. (MHz)	Final AVG (dBμV/m)	Duty Cycle Corr. (dB)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
2404.695	53.51	0.12	-0.48	(*)	(*)	276	205
3736.602	32.4	0.12	3.37	-21.6	54	194	359
4800.13	35.37	0.12	6.58	-18.63	54	385	70
5852.272	35.13	0.12	9.57	-18.87	54	293	20
7228.401	37.84	0.12	12.49	-16.16	54	150	245
12534.11	40.93	0.12	26.04	-13.07	54	150	130
14099.75	39.93	0.12	26.67	-14.07	54	186	186
15174.71	38.6	0.12	28.78	-15.4	54	379	96
15437.1	39.24	0.12	29.53	-14.76	54	280	42
17362.19	36.81	0.12	32.35	-17.19	54	293	-20

Vertical Radiated Spurious Emissions Plot – 1-18GHz (802.11g NOHT, 2412MHz)

SGS NA, San Diego Regulatory Lab

Client/Model - Alarm.Com / V730

Radiated Emissions

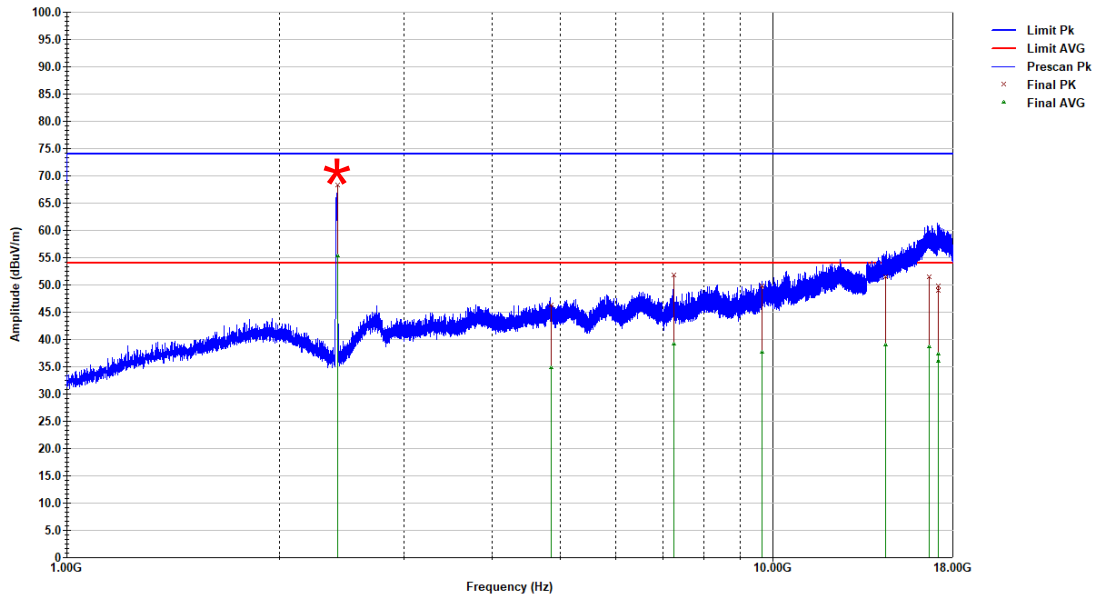
Test Mode - TX, 2.97 GHz HPF

Vertical AVG

Operator - AG

Standard - FCC 15.247

Comments - 2412 MHz, 802.11g NOHT, 48 Mbps, pwr 62



2412 48 62 RECISPR SW1A NC 3117 w lambda lna AVG 1G-18G 06Feb2024.ttl

Last Data Update 10:09:03 AM, Tuesday, July 23, 2024

(*) marks TX signal from the EUT which are excluded from measurement

Peak Data

Freq. (MHz)	Final PK (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
2419.461	68.38	-0.34	(*)	(*)	261	237
4862.793	46.27	6.85	-27.73	74	256	336
7237.114	51.81	12.52	-22.19	74	202	200
9673.158	49.76	18.68	-24.24	74	150	153
14458.768	51.46	27.29	-22.54	74	400	254
16661.481	51.49	33.62	-22.51	74	217	6
17172.883	49.02	32.8	-24.98	74	296	282
17174.811	49.88	32.8	-24.12	74	295	-5

Average

Freq. (MHz)	Final AVG (dBμV/m)	Duty Cycle Corr. (dB)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
2419.461	55.4	0.12	(*)	(*)	54	261	237
4862.793	34.94	0.12	6.85	-19.06	54	256	336
7237.114	39.26	0.12	12.52	-14.74	54	202	200
9673.158	37.71	0.12	18.68	-16.29	54	150	153
14458.768	39.16	0.12	27.29	-14.84	54	400	254
16661.481	38.83	0.12	33.62	-15.17	54	217	6
17172.883	36.14	0.12	32.8	-17.86	54	296	282
17174.811	37.46	0.12	32.8	-16.54	54	295	-5

Horizontal Radiated Spurious Emissions Plot – 1-18GHz (802.11g NOHT, 2437MHz)

SGS NA, San Diego Regulatory Lab

Client/Model - Alarm.Com / V730

Radiated Emissions

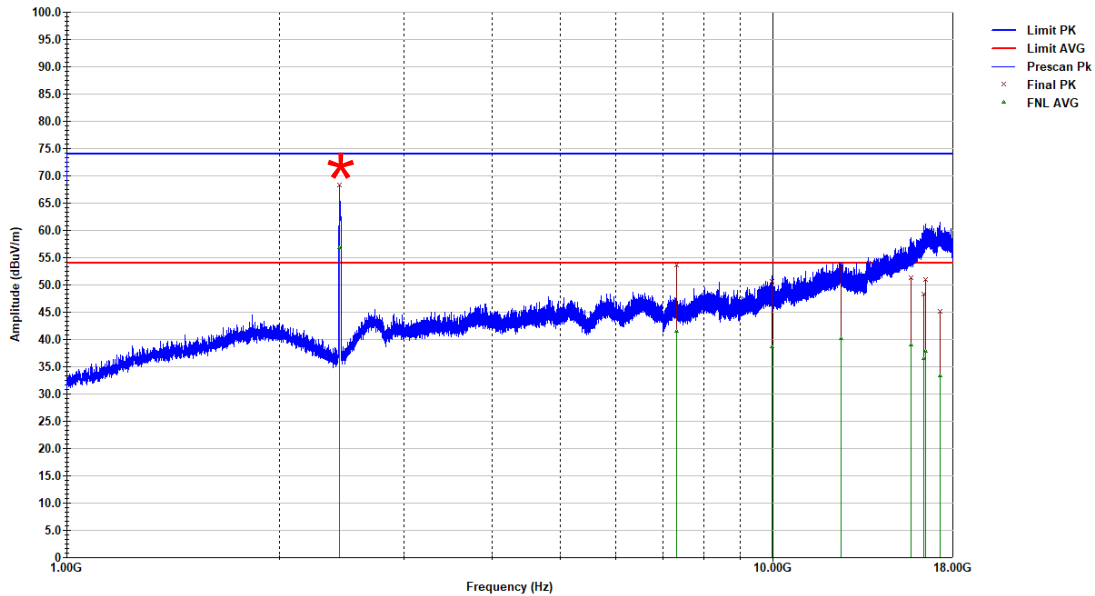
Test Mode - TX, 2.97 GHz HPF

Horizontal AVG

Operator - AG

Standard - FCC 15.247

Comments - 2437 MHz, 802.11g NOHT, 12 Mbps, pwr 68



2437 12 68 RECISPR SW1A NC 3117 w lambda lna AVG 1G-18G 06Feb2024_v3.tif

Last Data Update 11:45:26 AM, Tuesday, July 23, 2024

(*) marks TX signal from the EUT which are excluded from measurement

Peak Data

Freq. (MHz)	Final PK (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
2435.857	68.31	-0.26	(*)	(*)	228	133
7313.145	53.72	12.71	-20.28	74	178	249
9969.167	50.65	19.59	-23.35	74	209	159
12494.58	53.17	26.01	-20.83	74	186	-6
15709.57	51.38	30.13	-22.62	74	400	153
16387.28	48.27	32.59	-25.73	74	387	31
16486.63	51.04	33.04	-22.96	74	318	315
17286.98	45.17	32.55	-28.83	74	255	119

Average

Freq. (MHz)	Final AVG (dBμV/m)	Duty Cycle Corr. (dB)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
2435.857	56.83	0.0	(*)	(*)	54	228	133
7313.145	41.46	0.0	12.71	-12.54	54	178	249
9969.167	38.71	0.0	19.59	-15.29	54	209	159
12494.58	40.14	0.0	26.01	-13.86	54	186	-6
15709.57	38.91	0.0	30.13	-15.09	54	400	153
16387.28	36.52	0.0	32.59	-17.48	54	387	31
16486.63	37.87	0.0	33.04	-16.13	54	318	315
17286.98	33.34	0.0	32.55	-20.66	54	255	119

Vertical Radiated Spurious Emissions Plot – 1-18GHz (802.11g NOHT, 2437MHz)

SGS NA, San Diego Regulatory Lab

Client/Model - Alarm.Com / V730

Radiated Emissions

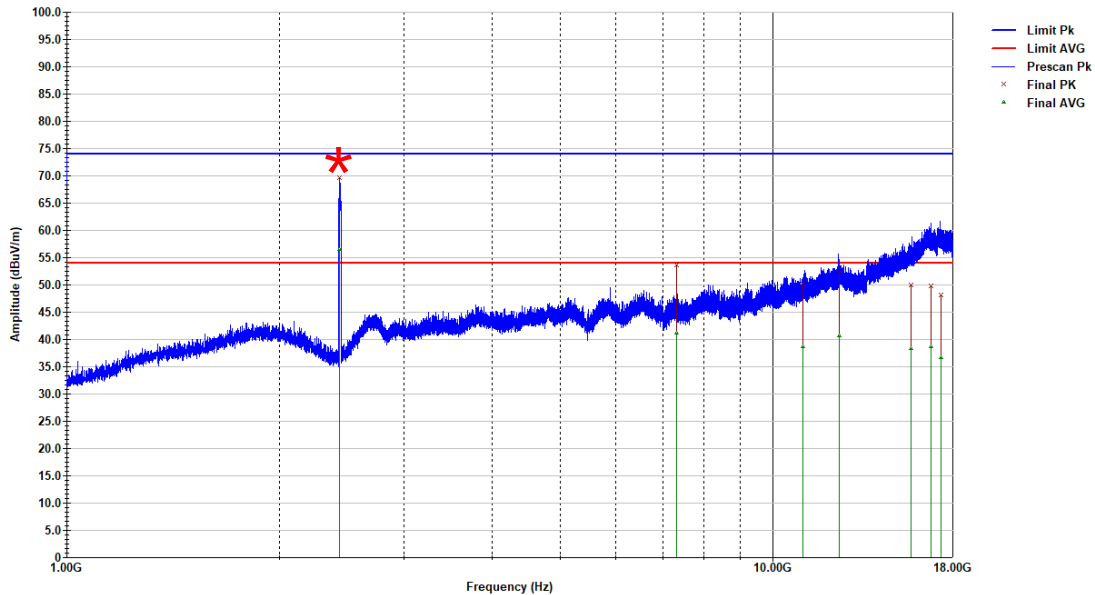
Test Mode - TX, 2.97 GHz HPF

Vertical AVG

Operator - AG

Standard - FCC 15.247

Comments - 2437 MHz, 802.11g NOHT, 12 Mbps, pwr 68



2437 12 68 RECISPR SW1A NC 3117 w lambda lna AVG 1G-18G 06Feb2024_v3.til

Last Data Update 12:10:46 PM, Tuesday, July 23, 2024

(*) marks TX signal from the EUT which are excluded from measurement

Peak Data

Freq. (MHz)	Final PK (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
2435.857	69.59	-0.26	(*)	(*)	201	260
7312.844	53.62	12.71	-20.38	74	175	155
11048.42	50.21	22.18	-23.79	74	217	33
12434.48	52.24	25.96	-21.76	74	265	134
15724.74	50.07	30.16	-23.93	74	390	76
16762.23	49.88	33.57	-24.12	74	347	320
17337.33	48.21	32.42	-25.79	74	219	289

Average

Freq. (MHz)	Final AVG (dBμV/m)	Duty Cycle Corr. (dB)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
2435.857	56.48	0.0	-0.26	(*)	(*)	201	260
7312.844	41.21	0.0	12.71	-12.79	54	175	155
11048.42	38.69	0.0	22.18	-15.31	54	217	33
12434.48	40.73	0.0	25.96	-13.27	54	265	134
15724.74	38.29	0.0	30.16	-15.71	54	390	76
16762.23	38.72	0.0	33.57	-15.28	54	347	320
17337.33	36.65	0.0	32.42	-17.35	54	219	289

Horizontal Radiated Spurious Emissions Plot – 1-18GHz (802.11g NOHT, 2462MHz)

SGS NA, San Diego Regulatory Lab

Client/Model - Alarm.Com / V730

Radiated Emissions

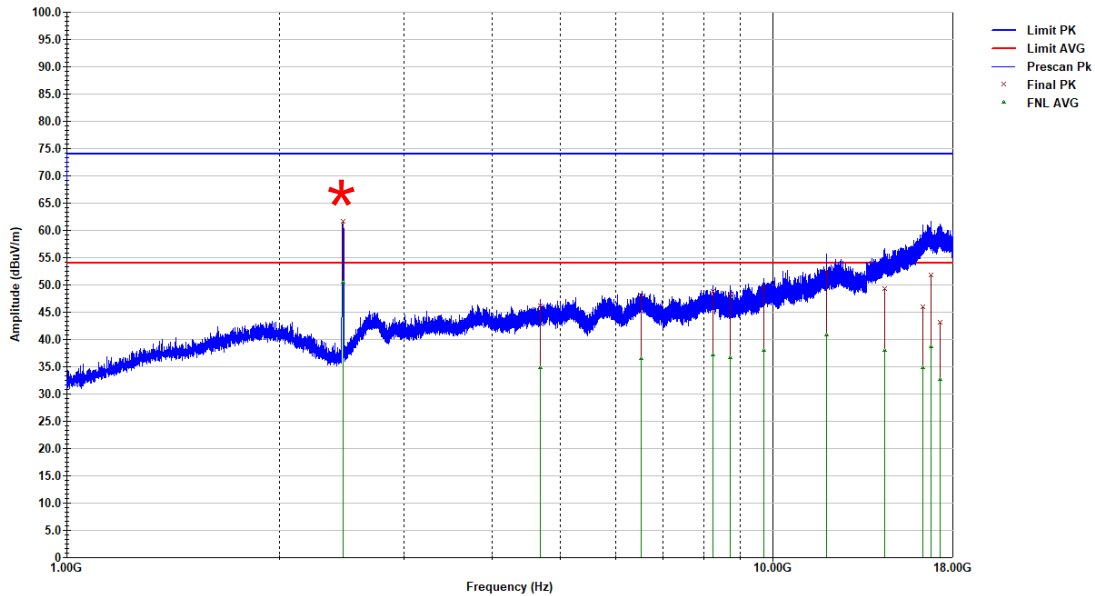
Test Mode - TX, 2.97 GHz HPF

Horizontal AVG

Operator - AG

Standard - FCC 15.247

Comments - 2462 MHz, 802.11g NOHT, 36 Mbps, pwr 55



2462 36 55 RECISPR SW1A NC 3117 w lambda lna AVG 1G-18G 06Feb2024.ttl

Last Data Update 01:23:16 PM, Tuesday, July 23, 2024

(*) marks TX signal from the EUT which are excluded from measurement

Peak Data

Freq. (MHz)	Final PK (dBuV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBuV/m)	Ant. Height (cm)	Azimuth (deg.)
2460.22	61.59	-0.24	(*)	(*)	228	168
4689.556	46.21	6.9	-27.79	74	217	53
6520.038	48.04	10.99	-25.96	74	248	179
8223.965	48.85	15.49	-25.15	74	279	20
8698.599	48.29	16.18	-25.71	74	233	124
9721.94	49.74	18.93	-24.26	74	302	-20
11905.88	52.27	25.09	-21.73	74	225	257
14411.78	49.33	27.18	-24.67	74	372	174
16337.15	45.97	32.37	-28.03	74	372	16
16747.06	51.86	33.58	-22.14	74	317	60
17249.73	43.19	32.66	-30.81	74	271	326

Average

Freq. (MHz)	Final AVG (dBμV/m)	Duty Cycle Corr. (dB)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
2460.22	50.62	0.09	-0.24	(*)	(*)	228	168
4689.556	34.9	0.09	6.9	-19.1	54	217	53
6520.038	36.65	0.09	10.99	-17.35	54	248	179
8223.965	37.32	0.09	15.49	-16.68	54	279	20
8698.599	36.67	0.09	16.18	-17.33	54	233	124
9721.94	38.03	0.09	18.93	-15.97	54	302	-20
11905.88	40.97	0.09	25.09	-13.03	54	225	257
14411.78	38.17	0.09	27.18	-15.83	54	372	174
16337.15	34.97	0.09	32.37	-19.03	54	372	16
16747.06	38.82	0.09	33.58	-15.18	54	317	60
17249.73	32.72	0.09	32.66	-21.28	54	271	326

Vertical Radiated Spurious Emissions Plot – 1-18GHz (802.11g NOHT, 2462MHz)

SGS NA, San Diego Regulatory Lab

Client/Model - Alarm.Com / V730

Radiated Emissions

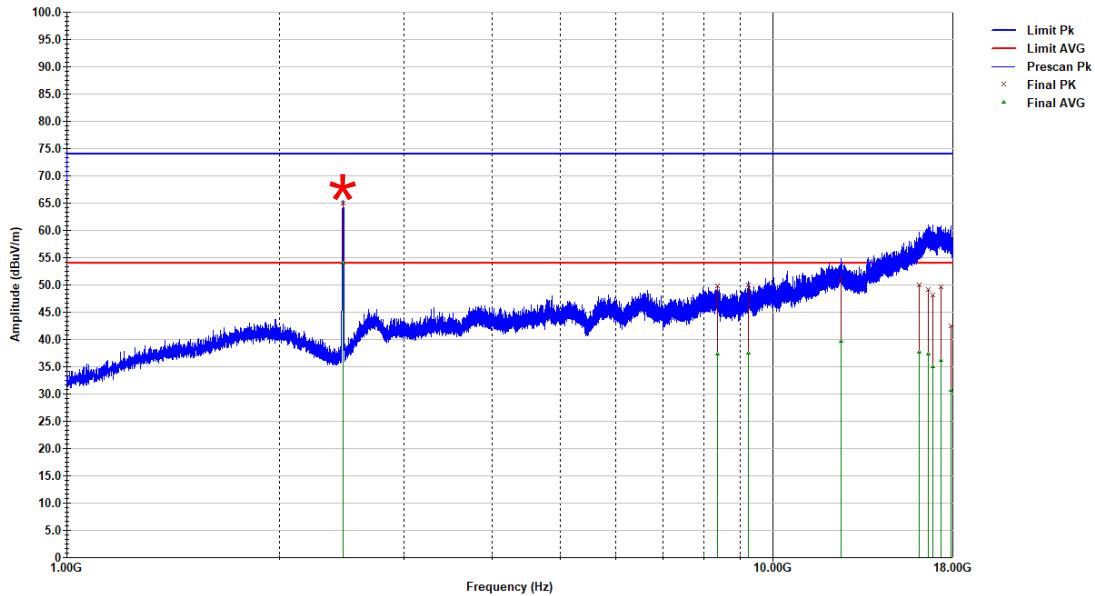
Test Mode - TX, 2.97 GHz HPF

Operator - AG

Vertical AVG

Standard - FCC 15.247

Comments - 2462 MHz, 802.11g NOHT, 36 Mbps, pwr 55



2462 36 55 RECISPR SW1A NC 3117 w lambda Ina AVG 1G-18G 06Feb2024.ttl

Last Data Update 12:52:39 PM, Tuesday, July 23, 2024

(*) marks TX signal from the EUT which are excluded from measurement

Peak Data

Freq. (MHz)	Final PK (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
2461.419	64.98	-0.24	(*)	(*)	164	268
8359.169	49.76	15.66	-24.24	74	356	295
9233.335	50.06	17.68	-23.94	74	310	113
12486.01	51.09	26.01	-22.91	74	356	240
16137.05	50.03	31.51	-23.97	74	163	131
16636.83	49.16	33.63	-24.84	74	264	148
16848.38	48.21	33.49	-25.79	74	334	380
17324.59	49.74	32.45	-24.26	74	310	366
17899.95	42.54	32.02	-31.46	74	150	71

Average

Freq. (MHz)	Final AVG (dBμV/m)	Duty Cycle Corr. (dB)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
2461.419	54.14	0.09	-0.24	(*)	(*)	164	268
8359.169	37.44	0.09	15.66	-16.56	54	356	295
9233.335	37.62	0.09	17.68	-16.38	54	310	113
12486.01	39.69	0.09	26.01	-14.31	54	356	240
16137.05	37.79	0.09	31.51	-16.21	54	163	131
16636.83	37.42	0.09	33.63	-16.58	54	264	148
16848.38	35.09	0.09	33.49	-18.91	54	334	380
17324.59	36.18	0.09	32.45	-17.82	54	310	366
17899.95	30.72	0.09	32.02	-23.28	54	150	71

Horizontal Radiated Spurious Emissions Plot – 30 to 1000 MHz (802.11n20 HT20, 2437MHz) Worst-Case presented

SGS NA, San Diego Regulatory Lab

Radiated Emissions

Horizontal QP

Customer / Model # - Alarm.Com / V730

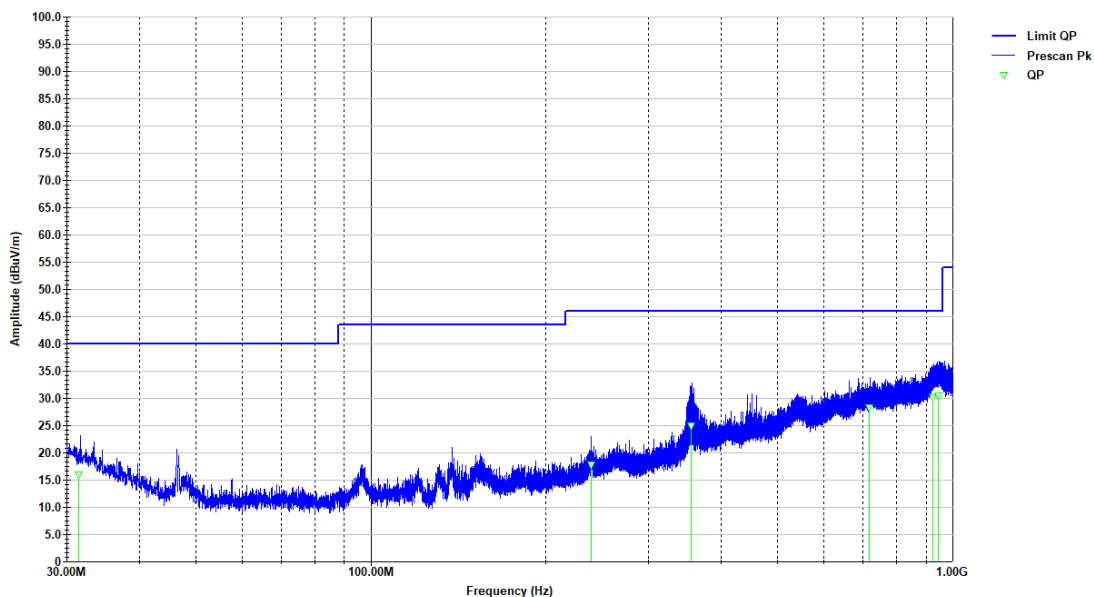
Serial # - N/A

Test Mode - TX

Operator - AG

Standard - FCC 15.247

Comments - 2437MHz, 802.11n HT20, mcs0, pwr 80



2437 0 80 FCC 15.247 RE 30M-1GHz_retest.ttl

Last Data Update 04:18:19 PM, Wednesday, September 18, 2024

Quasi-Peak Data

Freq. (MHz)	Final QP (dBuV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBuV/m)	Ant. Height (cm)	Azimuth (deg.)
31.490755	15.97	-22.06	-24.03	40	369	79
239.044458	17.76	-24.72	-28.26	46.02	129	171
355.382736	24.99	-20.7	-21.03	46.02	100	55
718.881811	28.38	-11.88	-17.64	46.02	114	-17
923.995115	30.13	-8.8	-15.89	46.02	384	211
945.602116	30.51	-8.3	-15.51	46.02	258	286

Vertical Radiated Spurious Emissions Plot – 30 to 1000 MHz (802.11n20 HT20, 2437MHz) Worst-Case presented

SGS NA, San Diego Regulatory Lab

Radiated Emissions

Vertical QP

Customer / Model # - Alarm.Com / V730

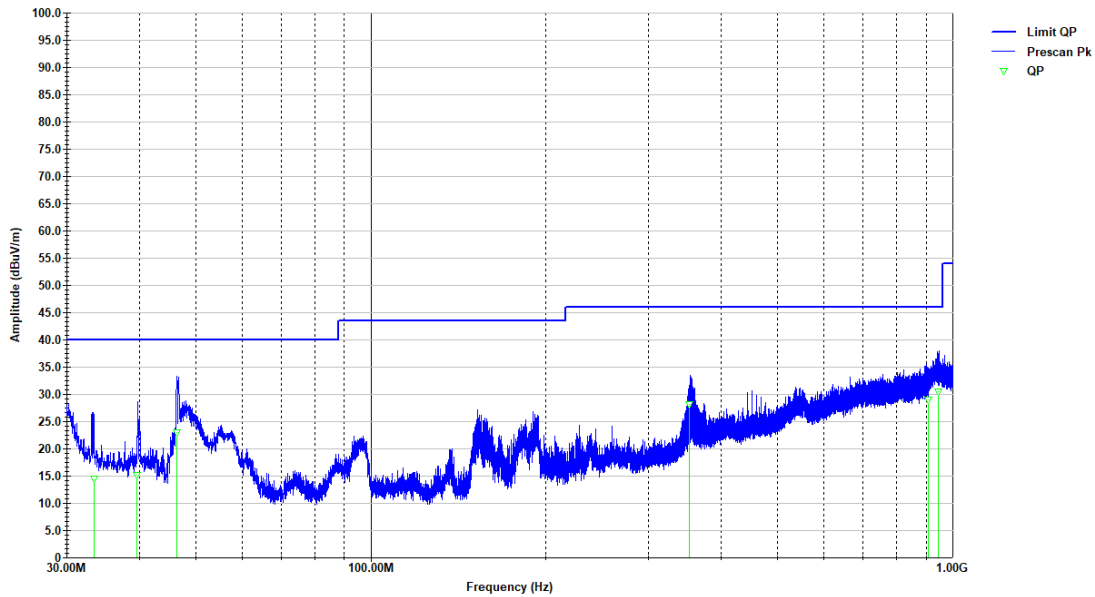
Serial # - N/A

Test Mode - TX

Operator - AG

Standard - FCC 15.247

Comments - 2437MHz, 802.11n HT20, mcs0, pwr 80



2437 0 80 FCC 15.247 RE 30M-1GHz_retest.ttl

Last Data Update 03:58:35 PM, Wednesday, September 18, 2024

Quasi-Peak Data

Freq. (MHz)	Final QP (dBuV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBuV/m)	Ant. Height (cm)	Azimuth (deg.)
33.449767	14.41	-23.28	-25.59	40	354	25
39.639757	15.22	-26.81	-24.78	40	154	174
46.432322	22.97	-29.69	-17.03	40	100	364
352.749506	28.23	-20.85	-17.79	46.02	186	341
906.456603	29.05	-9.99	-16.97	46.02	211	380
945.046611	30.54	-8.3	-15.48	46.02	380	230

Horizontal Radiated Spurious Emissions Plot – 1-18GHz (802.11n20 HT20, 2412MHz)

SGS NA, San Diego Regulatory Lab

Client/Model - Alarm.Com / V730

Radiated Emissions

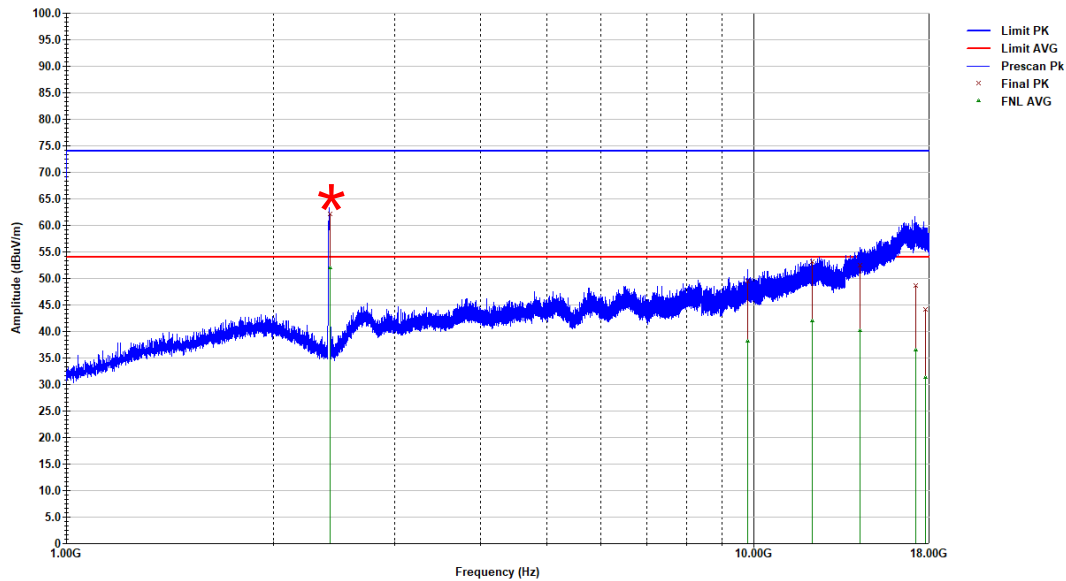
Test Mode - TX, 2.97 GHz HPF

Horizontal AVG

Operator - AG

Standard - FCC 15.247

Comments - 2412 MHz, 802.11n NOHT, mcs3, pwr 62



2412 mcs3 62 RECISPR SW1A NC 3117 w lambda lna AVG 1G-18G 06Feb2024.ttl

Last Data Update 12:48:05 PM, Thursday, September 12, 2024

(*) marks TX signal from the EUT which are excluded from measurement

Peak Data

Freq. (MHz)	Final PK (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
2419.349	62.17	-0.34	(*)	(*)	150	178
9811.85	49.55	19.14	-24.45	74	150	76
12167.28	53.13	25.61	-20.87	74	271	76
14298.6	52.57	27.15	-21.43	74	150	205
17199.05	48.75	32.81	-25.25	74	225	171
17787.43	44.09	31.84	-29.91	74	302	93

Average

Freq. (MHz)	Final AVG (dBμV/m)	Duty Cycle Corr. (dB)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
2419.349	52.01	0.0	-0.34	(*)	(*)	150	178
9811.85	38.21	0.0	19.14	-15.79	54	150	76
12167.28	41.97	0.0	25.61	-12.03	54	271	76
14298.6	40.22	0.0	27.15	-13.78	54	150	205
17199.05	36.53	0.0	32.81	-17.47	54	225	171
17787.43	31.27	0.0	31.84	-22.73	54	302	93

Vertical Radiated Spurious Emissions Plot – 1-18GHz (802.11n20 HT20, 2412MHz)

SGS NA, San Diego Regulatory Lab

Radiated Emissions

Vertical AVG

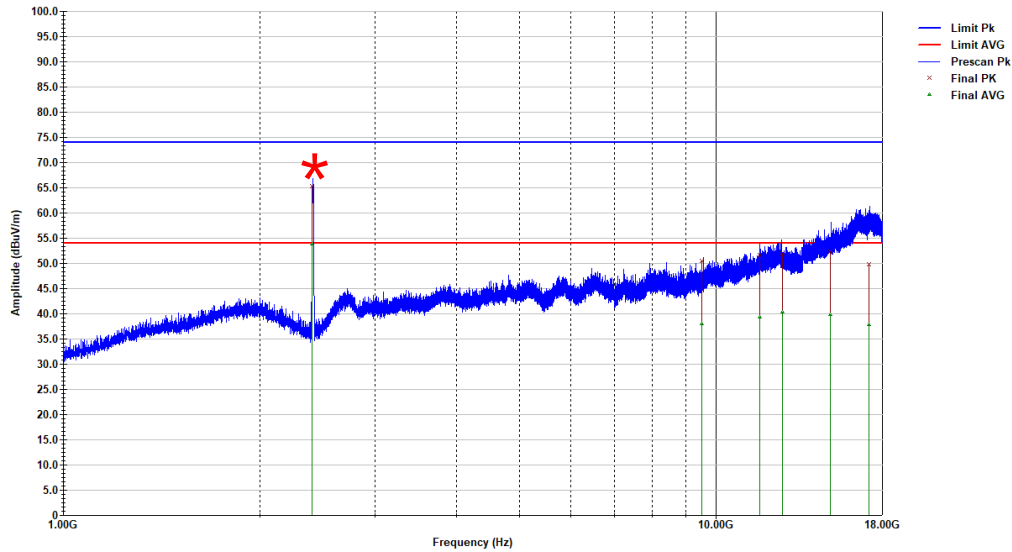
Client/Model - Alarm.Com / V730

Test Mode - TX, 2.97 GHz HPF

Operator - AG

Standard - FCC 15.247

Comments - 2412 MHz, 802.11n NOHT, mcs3, pwr 62



2412 mcs3 62 RECISPR SW1A NC 3117 w lambda lna AVG 1G-18G 06Feb2024.til

Last Data Update 12:18:40 PM, Thursday, September 12, 2024

(*) marks TX signal from the EUT which are excluded from measurement

Peak Data

Freq. (MHz)	Final PK (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
2407.387	65.3	-0.45	(*)	(*)	180	241
9524.854	50.54	18.58	-23.46	74	287	277
11687.49	51.67	24.53	-22.33	74	295	331
12645.86	52.06	26.11	-21.94	74	209	159
14997.6	52.27	28.46	-21.73	74	287	118
17187.41	49.85	32.8	-24.15	74	217	41

Average

Freq. (MHz)	Final AVG (dBμV/m)	Duty Cycle Corr. (dB)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
2407.387	53.85	0.0	-0.45	(*)	(*)	180	241
9524.854	37.94	0.0	18.58	-16.06	54	287	277
11687.49	39.29	0.0	24.53	-14.71	54	295	331
12645.86	40.32	0.0	26.11	-13.68	54	209	159
14997.6	39.82	0.0	28.46	-14.18	54	287	118
17187.41	37.89	0.0	32.8	-16.11	54	217	41

Horizontal Radiated Spurious Emissions Plot – 1-18GHz (802.11n20 HT20, 2437MHz)

SGS NA, San Diego Regulatory Lab

Client/Model - Alarm.Com / V730

Radiated Emissions

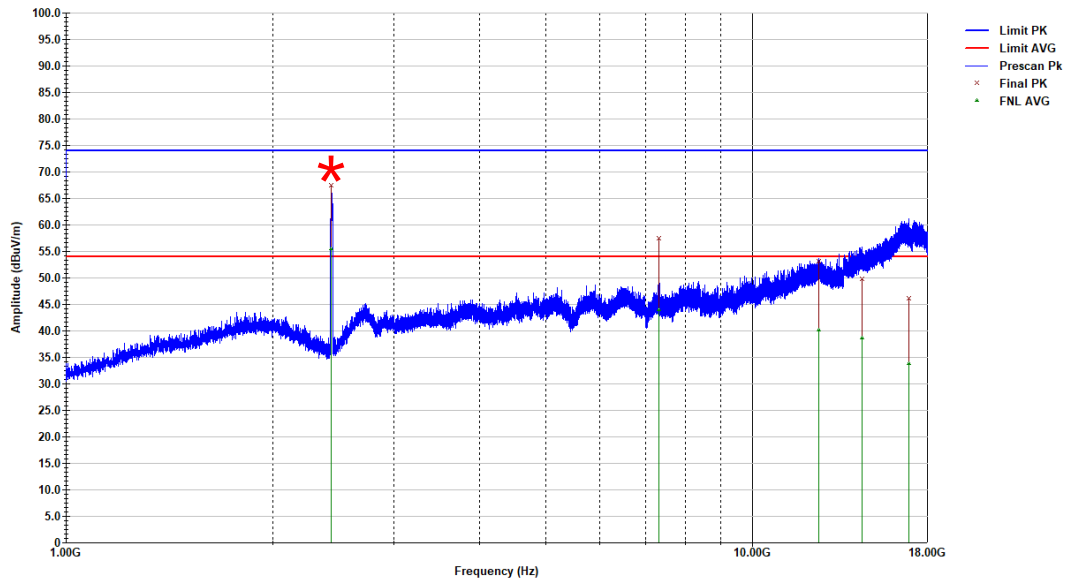
Test Mode - TX, 2.97 GHz HPF

Horizontal AVG

Operator - AG

Standard - FCC 15.247

Comments - 2437 MHz, 802.11n NOHT, mcs0, pwr 80



2437 mcs0 80 RECISPR SW1A NC 3117 w lambda lna AVG 1G-18G 06Feb2024.ttl

Last Data Update 05:36:14 PM, Friday, September 06, 2024

(*) marks TX signal from the EUT which are excluded from measurement

Peak Data

Freq. (MHz)	Final PK (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
2434.983	67.54	-0.26	(*)	(*)	150	139
7309.546	57.43	12.7	-16.57	74	155	248
12499.45	53.16	26.02	-20.84	74	356	205
14462.2	49.86	27.3	-24.14	74	387	366
16899.52	46.22	33.45	-27.78	74	355	355

Average

Freq. (MHz)	Final AVG (dBμV/m)	Duty Cycle Corr. (dB)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
2434.983	55.51	0.0	-0.26	(*)	(*)	150	139
7309.546	44.06	0.0	12.7	-9.94	54	155	248
12499.45	40.14	0.0	26.02	-13.86	54	356	205
14462.2	38.6	0.0	27.3	-15.4	54	387	366
16899.52	33.9	0.0	33.45	-20.1	54	355	355

Vertical Radiated Spurious Emissions Plot – 1-18GHz (802.11n20 HT20, 2437MHz)

SGS NA, San Diego Regulatory Lab

Client/Model - Alarm.Com / V730

Radiated Emissions

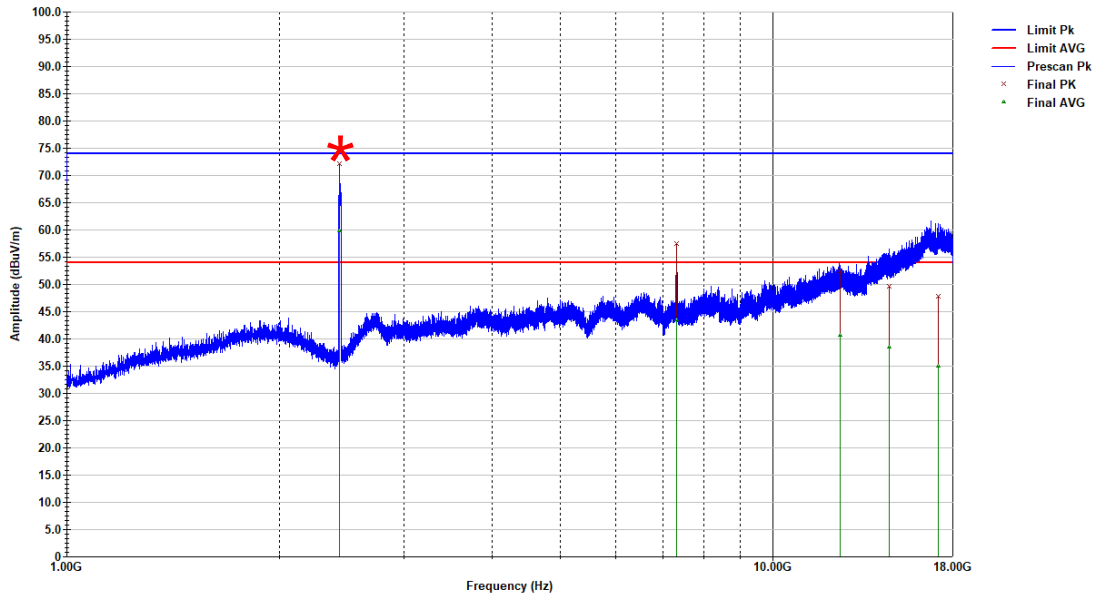
Test Mode - TX, 2.97 GHz HPF

Operator - AG

Vertical AVG

Standard - FCC 15.247

Comments - 2437 MHz, 802.11n NOHT, mcs0, pwr 80



2437 mcs0 80 RECISPR SW1A NC 3117 w lambda lna AVG 1G-18G 06Feb2024.ttl

Last Data Update 05:25:46 PM, Friday, September 06, 2024

(*) marks TX signal from the EUT which are excluded from measurement

Peak Data

Freq. (MHz)	Final PK (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
2436.257	72.16	-0.26	(*)	(*)	188	266
7310.893	57.54	12.71	-16.46	74	349	171
12449.25	52.49	25.97	-21.51	74	400	-17
14608.62	49.62	27.62	-24.38	74	288	103
17162.12	47.9	32.79	-26.1	74	240	243

Average

Freq. (MHz)	Final AVG (dBμV/m)	Duty Cycle Corr. (dB)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
2436.257	59.82	0.0	(*)	(*)	54	188	266
7310.893	43.48	0.0	12.71	-10.52	54	349	171
12449.25	40.67	0.0	25.97	-13.33	54	400	-17
14608.62	38.41	0.0	27.62	-15.59	54	288	103
17162.12	35.04	0.0	32.79	-18.96	54	240	243

Horizontal Radiated Spurious Emissions Plot – 1-18GHz (802.11n20 HT20, 2462MHz)

SGS NA, San Diego Regulatory Lab

Client/Model - Alarm.Com / V730

Radiated Emissions

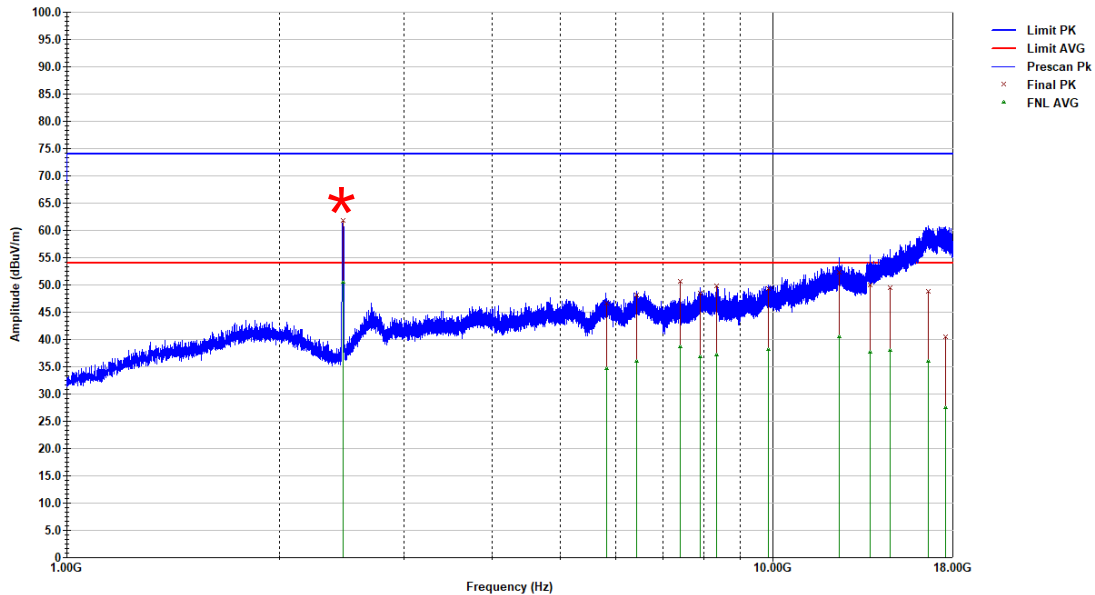
Test Mode - TX, 2.97 GHz HPF

Horizontal AVG

Operator - AG

Standard - FCC 15.247

Comments - 2462 MHz, 802.11n NOHT, mcs5, pwr 57



2462 mcs5 57 RECISPR SW1A NC 3117 w lambda lna AVG 1G-18G 06Feb2024.ttl

Last Data Update 05:42:46 PM, Tuesday, July 23, 2024

(*) marks TX signal from the EUT which are excluded from measurement

Peak Data

Freq. (MHz)	Final PK (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
2463.143	61.84	-0.22	(*)	(*)	236	237
5810.395	46.75	9.31	-27.25	74	394	-20
6425.189	48.12	10.72	-25.88	74	347	319
7393.904	50.67	13	-23.33	74	171	252
7886.407	48.54	14.65	-25.46	74	308	344
8321.19	49.78	15.64	-24.22	74	278	363
9854.124	49.27	19.08	-24.73	74	301	248
12423.11	52.34	25.95	-21.66	74	247	145
13746.05	49.99	26.38	-24.01	74	355	367
14685.83	49.52	27.77	-24.48	74	240	86
16599.55	48.77	33.53	-25.23	74	294	90
17585.61	40.49	32.07	-33.51	74	278	351

Average

Freq. (MHz)	Final AVG (dBμV/m)	Duty Cycle Corr. (dB)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
2463.143	50.5	0.0	-0.22	(*)	(*)	236	237
5810.395	34.7	0.0	9.31	-19.3	54	394	-20
6425.189	35.99	0.0	10.72	-18.01	54	347	319
7393.904	38.59	0.0	13	-15.41	54	171	252
7886.407	36.87	0.0	14.65	-17.13	54	308	344
8321.19	37.17	0.0	15.64	-16.83	54	278	363
9854.124	38.08	0.0	19.08	-15.92	54	301	248
12423.11	40.56	0.0	25.95	-13.44	54	247	145
13746.05	37.63	0.0	26.38	-16.37	54	355	367
14685.83	38.02	0.0	27.77	-15.98	54	240	86
16599.55	35.94	0.0	33.53	-18.06	54	294	90
17585.61	27.54	0.0	32.07	-26.46	54	278	351

Vertical Radiated Spurious Emissions Plot – 1-18GHz (802.11n20 HT20, 2462MHz)

SGS NA, San Diego Regulatory Lab

Client/Model - Alarm.Com / V730

Radiated Emissions

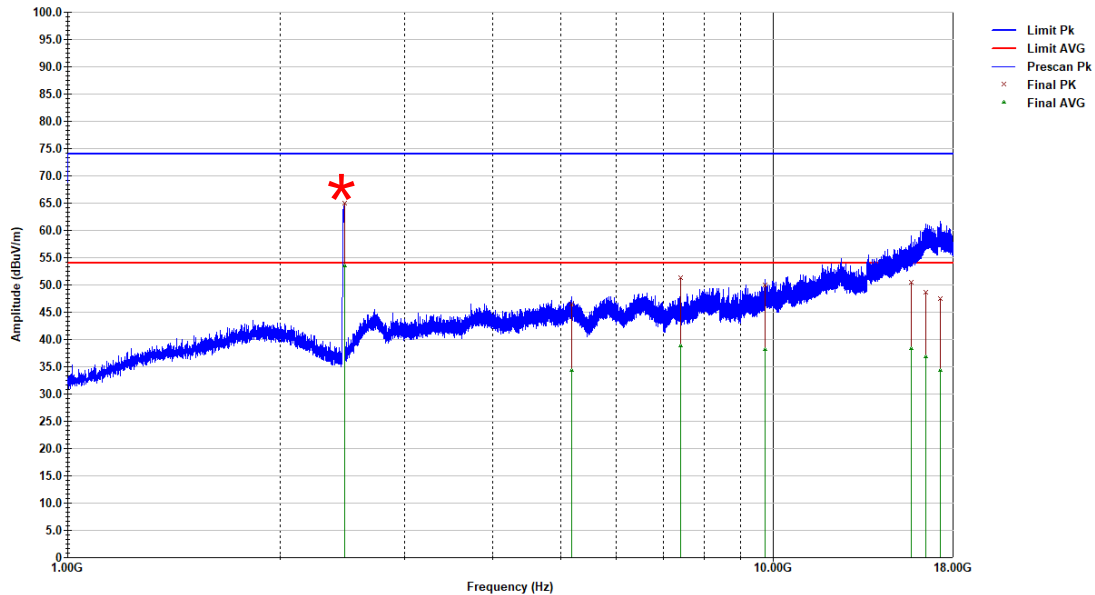
Test Mode - TX, 2.97 GHz HPF

Operator - AG

Vertical AVG

Standard - FCC 15.247

Comments - 2462 MHz, 802.11n NOHT, mcs5, pwr 57



2462 mcs5 57 RECISPR SW1A NC 3117 w lambda lna AVG 1G-18G 06Feb2024.ttl

Last Data Update 05:10:16 PM, Tuesday, July 23, 2024

(*) marks TX signal from the EUT which are excluded from measurement

Peak Data

Freq. (MHz)	Final PK (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
2469.265	65.02	-0.19	(*)	(*)	236	269
5176.685	46.43	7.33	-27.57	74	249	22
7388.53	51.27	12.98	-22.73	74	150	155
9754.198	49.96	19.11	-24.04	74	381	153
15686.83	50.46	30.08	-23.54	74	388	102
16487.24	48.74	33.04	-25.26	74	333	95
17248.78	47.54	32.67	-26.46	74	400	150

Average

Freq. (MHz)	Final AVG (dBμV/m)	Duty Cycle Corr. (dB)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
2469.265	53.45	0.0	-0.19	(*)	(*)	236	269
5176.685	34.28	0.0	7.33	-19.72	54	249	22
7388.53	38.83	0.0	12.98	-15.17	54	150	155
9754.198	38.08	0.0	19.11	-15.92	54	381	153
15686.83	38.3	0.0	30.08	-15.7	54	388	102
16487.24	36.86	0.0	33.04	-17.14	54	333	95
17248.78	34.3	0.0	32.67	-19.7	54	400	150

Horizontal Radiated Spurious Emissions Plot – 30 to 1000 MHz (802.11ax HE20, 2437MHz) Worst-Case presented

SGS NA, San Diego Regulatory Lab

Radiated Emissions

Horizontal QP

Customer / Model # - Alarm.Com / V730

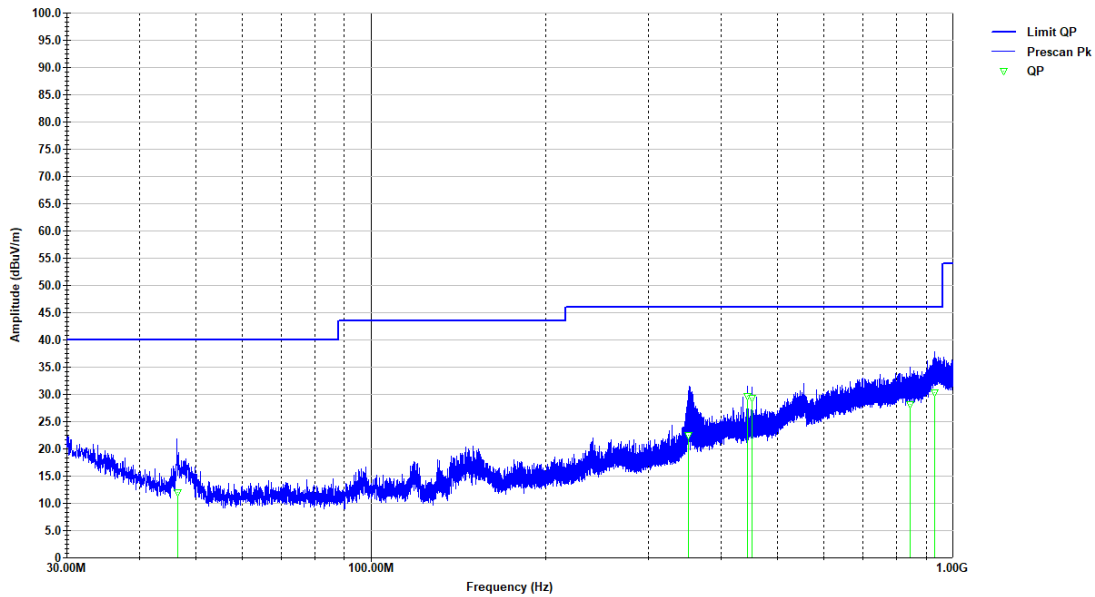
Serial # - N/A

Test Mode - TX

Operator - AG

Standard - FCC 15.247

Comments - 2437MHz, 802.11ax HE20, mcs0, pwr 76



2437 0 76 FCC 15.247 RE 30M-1GHz.iii

Last Data Update 04:56:46 PM, Wednesday, September 18, 2024

Quasi-Peak Data

Freq. (MHz)	Final QP (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
46.461035	11.94	-29.7	-28.06	40	400	129
351.35192	22.54	-20.93	-23.48	46.02	100	243
443.99602	29.61	-18.69	-16.41	46.02	192	81
451.988507	29.34	-18.37	-16.68	46.02	100	49
843.892298	28.14	-11.13	-17.88	46.02	169	18
930.744133	30.4	-8.48	-15.62	46.02	280	-17

Vertical Radiated Spurious Emissions Plot – 30 to 1000 MHz (802.11ax HE20, 2437MHz) Worst-Case presented

SGS NA, San Diego Regulatory Lab

Radiated Emissions

Vertical QP

Customer / Model # - Alarm.Com / V730

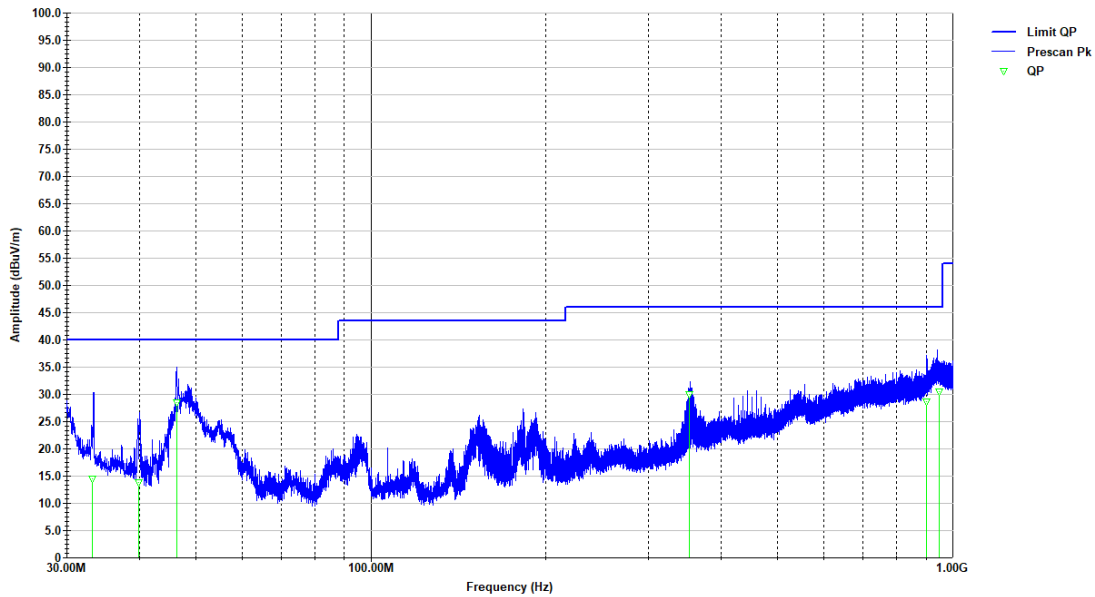
Serial # - N/A

Test Mode - TX

Operator - AG

Standard - FCC 15.247

Comments - 2437MHz, 802.11ax HE20, mcs0, pwr 76



2437 0 76 FCC 15.247 RE 30M-1GHz.iii

Last Data Update 04:44:27 PM, Wednesday, September 18, 2024

Quasi-Peak Data

Freq. (MHz)	Final QP (dBuV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBuV/m)	Ant. Height (cm)	Azimuth (deg.)
33.179767	14.5	-23.09	-25.5	40	370	365
39.881045	13.82	-26.93	-26.18	40	114	30
46.30452	28.46	-29.66	-11.54	40	100	171
352.809506	30.01	-20.85	-16.01	46.02	170	281
902.196603	28.75	-10.2	-17.27	46.02	114	109
946.458109	30.57	-8.32	-15.45	46.02	100	221

Horizontal Radiated Spurious Emissions Plot – 1-18GHz 802.11ax HE20, 2412MHz)

SGS NA, San Diego Regulatory Lab

Client/Model - Alarm.Com / V730

Radiated Emissions

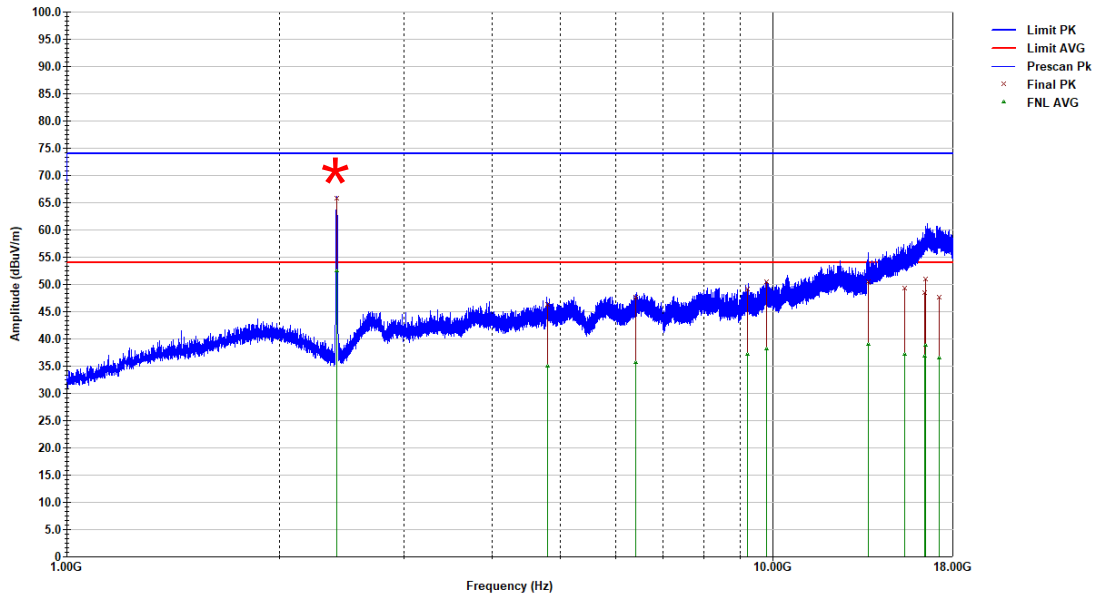
Test Mode - TX, 2.97 GHz HPF

Horizontal AVG

Operator - AG

Standard - FCC 15.247

Comments - 2412 MHz, 802.11ax HE20, mcs4, pwr 62



2412 mcs4 62 RECISPR SW1A NC 3117 w lambda lna AVG 1G-18G 06Feb2024.ttl

Last Data Update 06:57:32 PM, Tuesday, July 23, 2024

(*) marks TX signal from the EUT which are excluded from measurement

Peak Data

Freq. (MHz)	Final PK (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
2409.772	65.73	-0.43	(*)	(*)	260	179
4800.436	46.36	6.59	-27.64	74	240	90
6393.449	47.63	10.66	-26.37	74	256	265
9221.168	49.12	17.61	-24.88	74	310	119
9809.241	50.48	19.15	-23.52	74	368	326
13685.35	50.47	26.37	-23.53	74	339	292
15399.28	49.26	29.44	-24.74	74	155	223
16399.81	48.45	32.65	-25.55	74	255	304
16486.53	51.05	33.04	-22.95	74	232	122
17199.72	47.71	32.81	-26.29	74	363	9

Average

Freq. (MHz)	Final AVG (dBμV/m)	Duty Cycle Corr. (dB)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
2409.772	52.53	0.0	-0.43	(*)	(*)	260	179
4800.436	35.02	0.0	6.59	-18.98	54	240	90
6393.449	35.66	0.0	10.66	-18.34	54	256	265
9221.168	37.15	0.0	17.61	-16.85	54	310	119
9809.241	38.11	0.0	19.15	-15.89	54	368	326
13685.35	38.96	0.0	26.37	-15.04	54	339	292
15399.28	37.16	0.0	29.44	-16.84	54	155	223
16399.81	36.83	0.0	32.65	-17.17	54	255	304
16486.53	38.79	0.0	33.04	-15.21	54	232	122
17199.72	36.44	0.0	32.81	-17.56	54	363	9

Vertical Radiated Spurious Emissions Plot – 1-18GHz (802.11ax HE20, 2412MHz)

SGS NA, San Diego Regulatory Lab

Client/Model - Alarm.Com / V730

Radiated Emissions

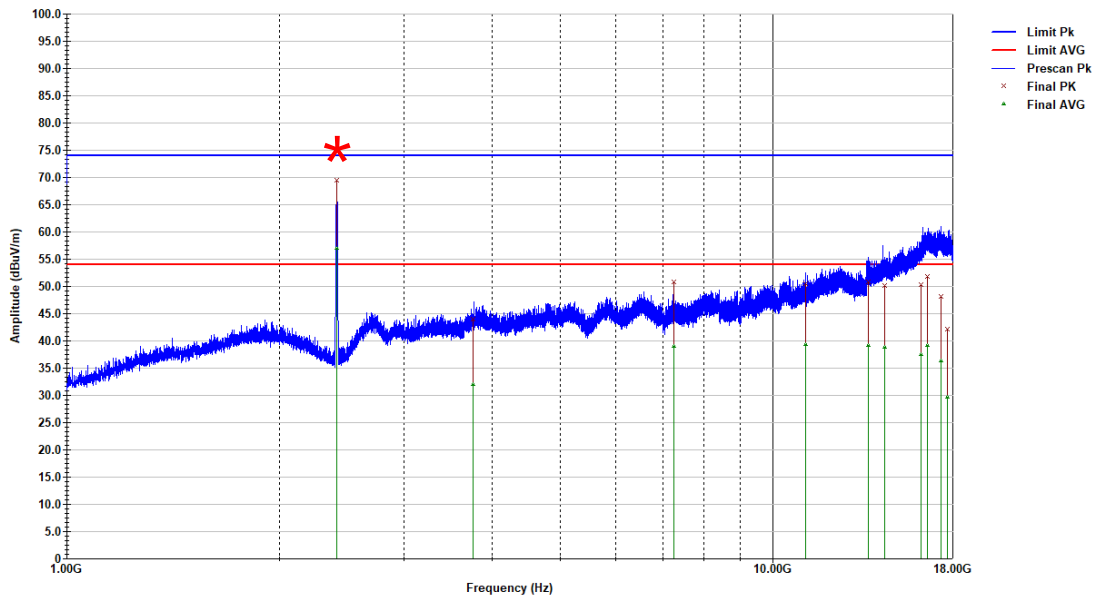
Test Mode - TX, 2.97 GHz HPF

Operator - AG

Vertical AVG

Standard - FCC 15.247

Comments - 2412 MHz, 802.11ax HE20, mcs4, pwr 62



2412 mcs4 62 RECISPR SW1A NC 3117 w lambda lna AVG 1G-18G 06Feb2024.ttl

Last Data Update 06:30:35 PM, Tuesday, July 23, 2024

(*) marks TX signal from the EUT which are excluded from measurement

Peak Data

Freq. (MHz)	Final PK (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
2413.118	69.53	-0.4	(*)	(*)	205	240
3766.259	44	3.58	-30	74	150	243
7237.805	50.82	12.52	-23.18	74	156	197
11133.86	50.55	22.64	-23.45	74	202	3
13672.52	50.87	26.37	-23.13	74	272	296
14399.3	50.18	27.15	-23.82	74	256	-20
16224.46	50.34	31.88	-23.66	74	342	292
16586.56	51.74	33.48	-22.26	74	349	32
17299.2	48.17	32.52	-25.83	74	202	-17
17699.87	42.14	31.94	-31.86	74	210	232

Average

Freq. (MHz)	Final AVG (dBμV/m)	Duty Cycle Corr. (dB)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
2413.118	57	0.0	-0.4	(*)	(*)	205	240
3766.259	32	0.0	3.58	-22	54	150	243
7237.805	39.02	0.0	12.52	-14.98	54	156	197
11133.86	39.32	0.0	22.64	-14.68	54	202	3
13672.52	39.17	0.0	26.37	-14.83	54	272	296
14399.3	38.79	0.0	27.15	-15.21	54	256	-20
16224.46	37.49	0.0	31.88	-16.51	54	342	292
16586.56	39.13	0.0	33.48	-14.87	54	349	32
17299.2	36.29	0.0	32.52	-17.71	54	202	-17
17699.87	29.66	0.0	31.94	-24.34	54	210	232

Horizontal Radiated Spurious Emissions Plot – 1-18GHz (802.11ax HE20, 2437MHz)

SGS NA, San Diego Regulatory Lab

Client/Model - Alarm.Com / V730

Test Mode - TX, 2.97 GHz HPF

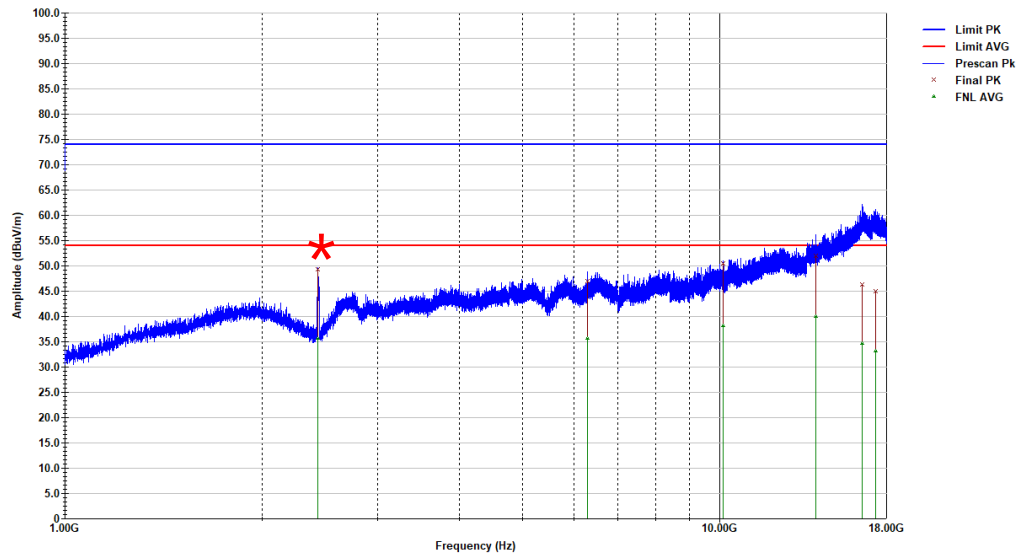
Operator - AG

Standard - FCC 15.247

Comments - 2437 MHz, 802.11ax HE20, mcs0, pwr 76

Radiated Emissions

Horizontal AVG



2437 mcs0 76 RECISPR SW1A NC 3117 w lambda Ina AVG 1G-18G 06Feb2024.til

Last Data Update 06:17:10 PM, Friday, September 06, 2024

(*) marks TX signal from the EUT which are excluded from measurement

Peak Data

Freq. (MHz)	Final PK (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
2437.293	49.33	-0.26	(*)	(*)	150	132
6291.806	47.04	10.39	-26.96	74	178	347
10123.34	50.43	19.71	-23.57	74	325	39
14022.82	52.03	26.65	-21.97	74	303	93
16535.96	46.36	33.26	-27.64	74	317	266
17299.35	45.03	32.52	-28.97	74	150	179

Average

Freq. (MHz)	Final AVG (dBμV/m)	Duty Cycle Corr. (dB)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
2437.293	35.62	0.0	-0.26	(*)	(*)	150	132
6291.806	35.72	0.0	10.39	-18.28	54	178	347
10123.34	38.19	0.0	19.71	-15.81	54	325	39
14022.82	39.97	0.0	26.65	-14.03	54	303	93
16535.96	34.73	0.0	33.26	-19.27	54	317	266
17299.35	33.24	0.0	32.52	-20.76	54	150	179

Vertical Radiated Spurious Emissions Plot – 1-18GHz (802.11ax HE20, 2437MHz)

SGS NA, San Diego Regulatory Lab

Client/Model - Alarm.Com / V730

Radiated Emissions

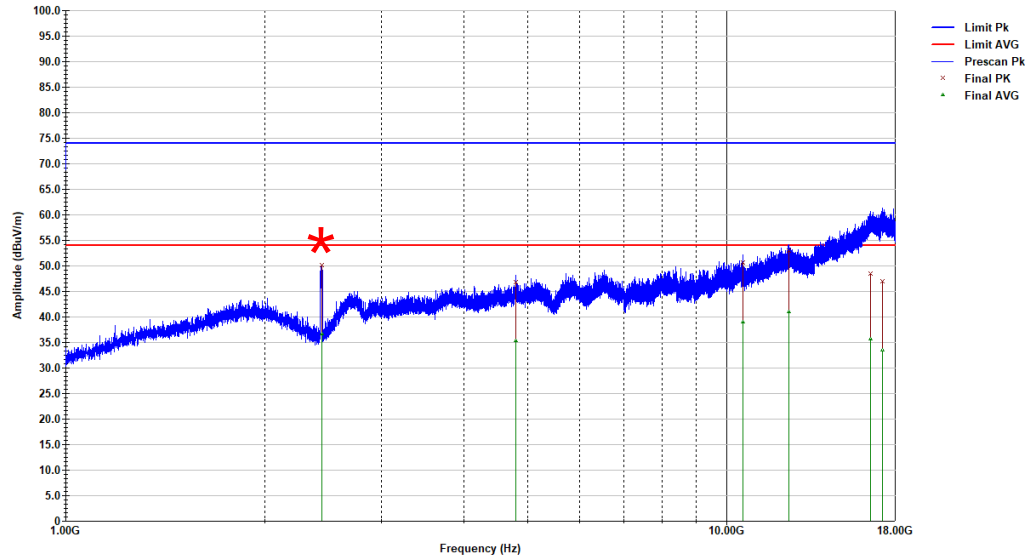
Test Mode - TX, 2.97 GHz HPF

Vertical AVG

Operator - AG

Standard - FCC 15.247

Comments - 2437 MHz, 802.11ax HE20, mcs0, pwr 76



2437 mcs0 76 RECISPR SW1A NC 3117 w lambda lna AVG 1G-18G 06Feb2024.ttl

Last Data Update 06:03:59 PM, Friday, September 06, 2024

(*) marks TX signal from the EUT which are excluded from measurement

Peak Data

Freq. (MHz)	Final PK (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
2442.979	50.15	-0.28	(*)	(*)	213	278
4797.326	46.8	6.55	-27.2	74	226	372
10586.6	50.73	20.6	-23.27	74	240	301
12434.72	52.96	25.96	-21.04	74	202	23
16524.63	48.49	33.21	-25.51	74	400	131
17211.84	47.01	32.77	-26.99	74	218	325

Average

Freq. (MHz)	Final AVG (dBμV/m)	Duty Cycle Corr. (dB)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
2442.979	36.68	0.0	-0.28	(*)	(*)	213	278
4797.326	35.3	0.0	6.55	-18.7	54	226	372
10586.6	38.91	0.0	20.6	-15.09	54	240	301
12434.72	40.96	0.0	25.96	-13.04	54	202	23
16524.63	35.66	0.0	33.21	-18.34	54	400	131
17211.84	33.4	0.0	32.77	-20.6	54	218	325

Horizontal Radiated Spurious Emissions Plot – 1-18GHz (802.11ax HE20, 2462MHz)

SGS NA, San Diego Regulatory Lab

Client/Model - Alarm.Com / V730

Radiated Emissions

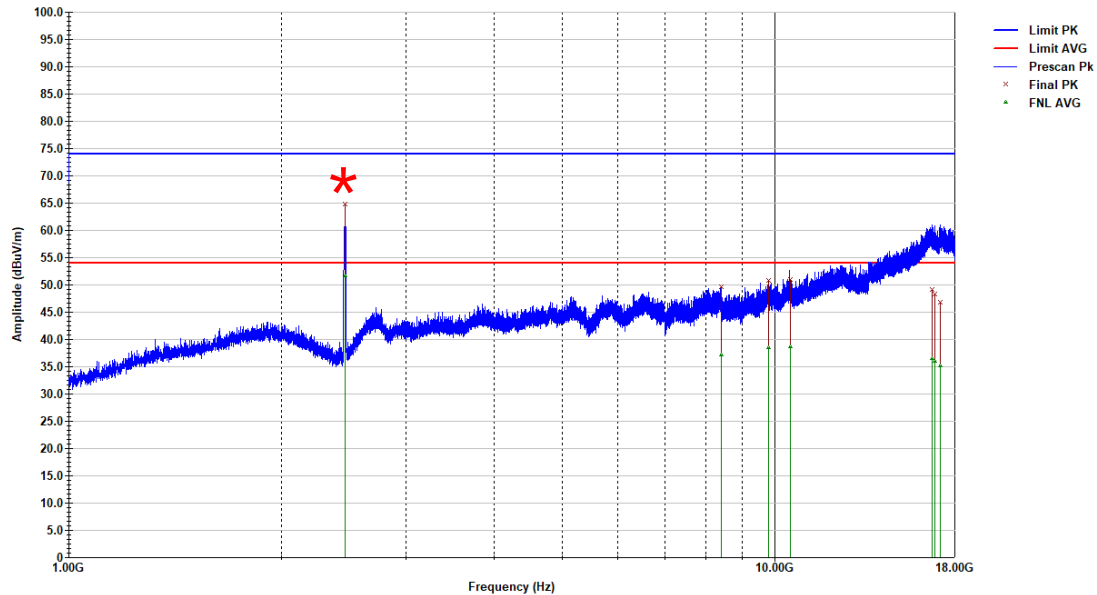
Test Mode - TX, 2.97 GHz HPF

Horizontal AVG

Operator - AG

Standard - FCC 15.247

Comments - 2462 MHz, 802.11ax HE20, mcs7, pwr 55



2462 mcs7 55 RECISPR SW1A NC 3117 w lambda lna AVG 1G-18G 06Feb2024.ttl

Last Data Update 11:28:58 AM, Wednesday, July 24, 2024

(*) marks TX signal from the EUT which are excluded from measurement

Peak Data

Freq. (MHz)	Final PK (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
2460.594	64.77	-0.24	(*)	(*)	228	187
8397	49.7	15.67	-24.3	74	201	75
9794.002	50.81	19.17	-23.19	74	194	167
10510.37	50.98	20.57	-23.02	74	362	162
16699.05	49.23	33.61	-24.77	74	348	1
16849.8	48.3	33.49	-25.7	74	150	119
17186.11	46.85	32.8	-27.15	74	150	148

Average

Freq. (MHz)	Final AVG (dBμV/m)	Duty Cycle Corr. (dB)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
2460.594	51.67	0.0	-0.24	(*)	(*)	228	187
8397	37.11	0.0	15.67	-16.89	54	201	75
9794.002	38.44	0.0	19.17	-15.56	54	194	167
10510.37	38.73	0.0	20.57	-15.27	54	362	162
16699.05	36.46	0.0	33.61	-17.54	54	348	1
16849.8	36.04	0.0	33.49	-17.96	54	150	119
17186.11	35.2	0.0	32.8	-18.8	54	150	148

Vertical Radiated Spurious Emissions Plot – 1-18GHz (802.11ax HE20, 2462MHz)

SGS NA, San Diego Regulatory Lab

Client/Model - Alarm.Com / V730

Radiated Emissions

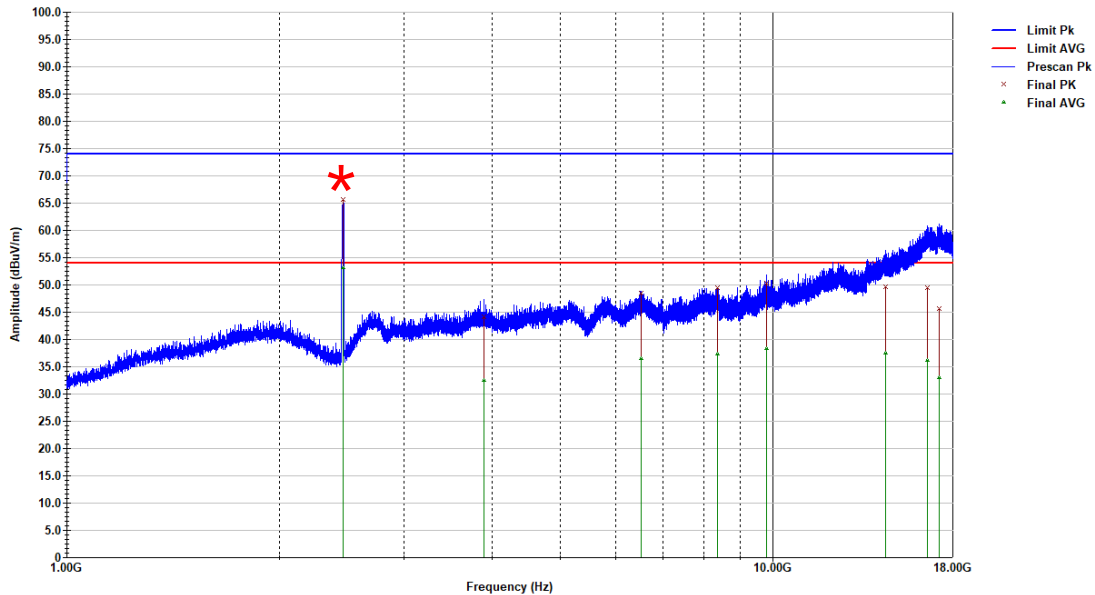
Test Mode - TX, 2.97 GHz HPF

Vertical AVG

Operator - AG

Standard - FCC 15.247

Comments - 2462 MHz, 802.11ax HE20, mcs7, pwr 55



2462 mcs7 55 RECISPR SW1A NC 3117 w lambda lna AVG 1G-18G 06Feb2024.ttl

Last Data Update 11:08:31 AM, Wednesday, July 24, 2024

(*) marks TX signal from the EUT which are excluded from measurement

Peak Data

Freq. (MHz)	Final PK (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
2461.495	65.59	-0.23	(*)	(*)	150	264
3902.349	44.19	3.84	-29.81	74	263	325
6502.498	48.45	10.93	-25.55	74	210	276
8355.698	49.44	15.66	-24.56	74	310	175
9798.426	50.37	19.16	-23.63	74	217	143
14448.7	49.63	27.27	-24.37	74	257	13
16562.39	49.49	33.37	-24.51	74	280	68
17223.84	45.72	32.74	-28.28	74	248	69

Average

Freq. (MHz)	Final AVG (dBμV/m)	Duty Cycle Corr. (dB)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
2461.495	53.1	0.0	-0.23	(*)	(*)	150	264
3902.349	32.44	0.0	3.84	-21.56	54	263	325
6502.498	36.52	0.0	10.93	-17.48	54	210	276
8355.698	37.3	0.0	15.66	-16.7	54	310	175
9798.426	38.33	0.0	19.16	-15.67	54	217	143
14448.7	37.46	0.0	27.27	-16.54	54	257	13
16562.39	36.11	0.0	33.37	-17.89	54	280	68
17223.84	32.96	0.0	32.74	-21.04	54	248	69

8 Radiated Band Edge Emissions in Restricted Frequency Bands

8.1 Test Result

Test Description	Test Specification		Test Result
Radiated Band Edge Emissions in Restricted Frequency Bands	15.205 / 15.209	RSS-GEN S8.9 / S8.10	Compliant

8.2 Test Method

Measurements were made using the radiated methods defined in ANSI C63.10, Section 11.12.2.

8.3 Test Site and Environmental Condition

3m Absorber Lined Shielded Enclosure (ALSE), San Diego, CA

Environmental Conditions

Temperature: 20 – 25 °C

Relative Humidity: 35 – 50 %

8.4 Test Equipment

Test Dates: August 19, 2024

Tester: Andreas Gillmeier/Alex Chang

Asset No.	Type of Equipment	Model	Serial No.	Manufacturer	Cal Date	Cal Due Date
Radiated Emission < 1 GHz						
2017	EMI Receiver	N9038B	MY59050132	Keysight	10/24/2023	10/24/2024
2029	ETS Lindgren	Loop Antenna, H-Field	6512	00249642	08/31/2022	08/31/2024
2034	Biconilog Antenna 26M-6000MHz	3142E	00243882	ETS Lindgren	06/29/2023	06/29/2025
Radiated Emission > 1 GHz						
2017	EMI Receiver	N9038B	MY59050132	Keysight	10/24/2023	01/24/2025
2026	RF Microwave Systems Amplifier	RAMP00M45GA	00089204010	RF-Lambda	07/09/2024	07/09/2025
2042	DRG Horn Antenna 1G-18GHz	3117	00259209	ETS Lindgren	05/26/2023	05/26/2025
2032	ETS Lindgren	DRG Horn Antenna 10G-40GHz	3116C	00251668	07/23/2024	07/23/2026
Miscellaneous						
2036	Temp/Humidity Data Logger	GSP-8	CMA231100002	Elitech	07/09/2024	07/09/2025
-	Test Software	TILE!	V7.8.1.7	ETS Lindgren	N/A	

8.5 Test Setup Photographs

Test setup photographs are located in a separate report (208949-8).

8.6 Test Data – Restricted Band Edges

Horizontal 802.11b NOHT Low Channel (2412MHz)

SGS NA, San Diego Regulatory Lab

Radiated Emissions

Horizontal AVG

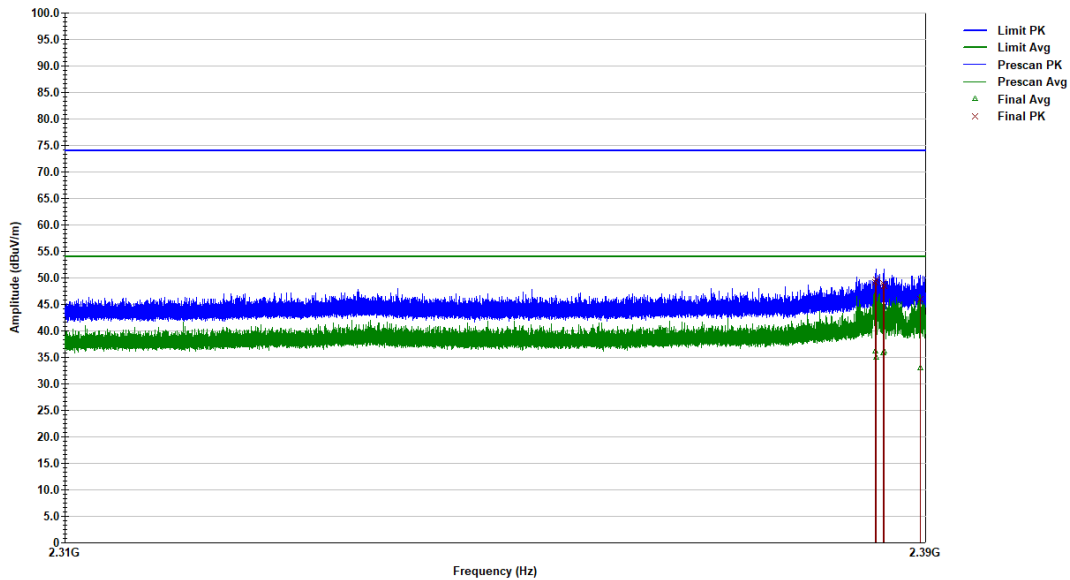
Model # - Alarm.Com / V730

Test Mode - 802.11 b-NOHT 2412MHz Tx Mode

Operator - AG

Standard - FCC 15.247

Comments - Restricted Band 2310- 2390MHz, Power:72
5.5Mbps



2412 5.5 72 b-NOHTRestricted Band_2310-2390MHz_3117 2024.ttl

Last Data Update 05:25:06 AM, Monday, August 19, 2024

Peak Data

Freq. (MHz)	Final PK (dBuV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBuV/m)	Ant. Height (cm)	Azimuth (deg.)
2385.256	49.1	-0.62	-24.9	74	400	99
2385.366	49.59	-0.62	-24.41	74	400	80
2386.01	48.98	-0.62	-25.02	74	400	91
2386.062	48.48	-0.62	-25.52	74	400	95
2389.508	45.93	-0.59	-28.07	74	400	-20

Average

Freq. (MHz)	Final AVG (dBuV/m)	Duty Cycle Corr. (dB)	Total Corr. (dB)	Margin (dB)	Limit (dBuV/m)	Ant. Height (cm)	Azimuth (deg.)
2385.256	36.14	0	-0.62	-17.86	54	400	99
2385.366	35.01	0	-0.62	-18.99	54	400	80
2386.01	35.76	0	-0.62	-18.24	54	400	91
2386.062	36.18	0	-0.62	-17.82	54	400	95
2389.508	32.92	0	-0.59	-21.08	54	400	-20

Vertical 802.11b NOHT Low Channel (2412MHz)

SGS NA, San Diego Regulatory Lab

Radiated Emissions

Vertical AVG

Model # - Alarm.Com / V730

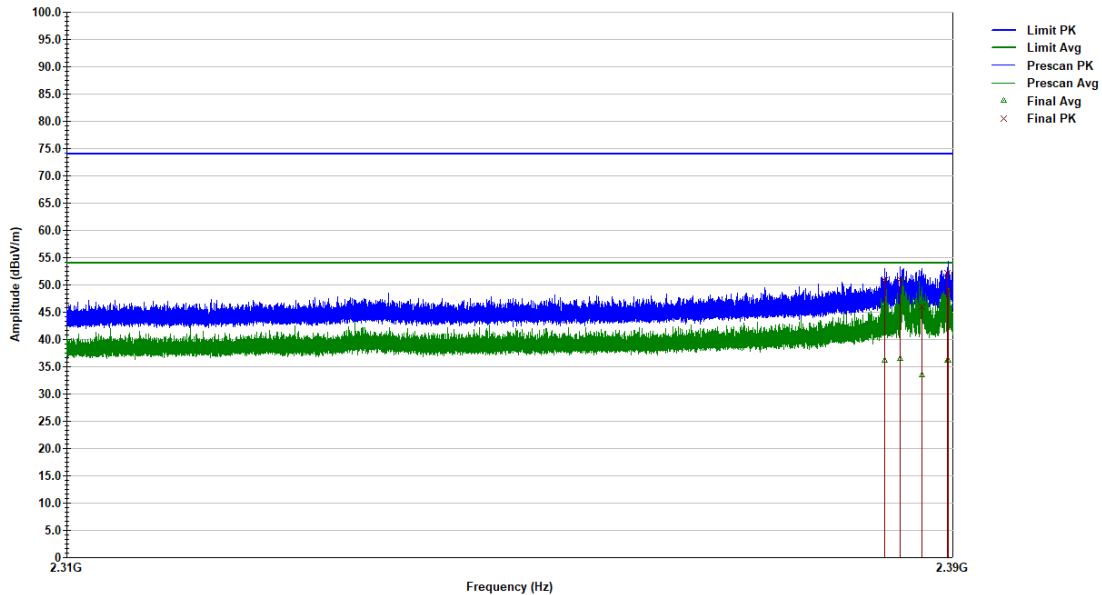
Test Mode - 802.11 b-NOHT 2412MHz Tx Mode

Operator - AG

Standard - FCC 15.247

Comments - Restricted Band 2310- 2390MHz, Power:72

5.5Mbps



2412 5.5 72 b-NOHTRestricted Band_2310-2390MHz_3117 2024.ttl

Last Data Update 05:14:08 AM, Monday, August 19, 2024

Peak Data

Freq. (MHz)	Final PK (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
2383.714	50.84	-0.63	-23.16	74	295	210
2385.194	51.02	-0.62	-22.98	74	400	248
2387.156	45.97	-0.61	-28.03	74	400	380
2389.482	52.09	-0.59	-21.91	74	400	267
2389.61	49.02	-0.59	-24.98	74	400	267

Average

Freq. (MHz)	Final AVG (dBμV/m)	Duty Cycle Corr. (dB)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
2383.714	36.18	0	-0.63	-17.82	54	295	210
2385.194	36.47	0	-0.62	-17.53	54	400	248
2387.156	33.57	0	-0.61	-20.43	54	400	380
2389.482	36.25	0	-0.59	-17.75	54	400	267
2389.61	36.11	0	-0.59	-17.89	54	400	267

Horizontal 802.11b NOHT High Channel (2462MHz)

SGS NA, San Diego Regulatory Lab

Model # - Alarm.Com / V730

Radiated Emissions

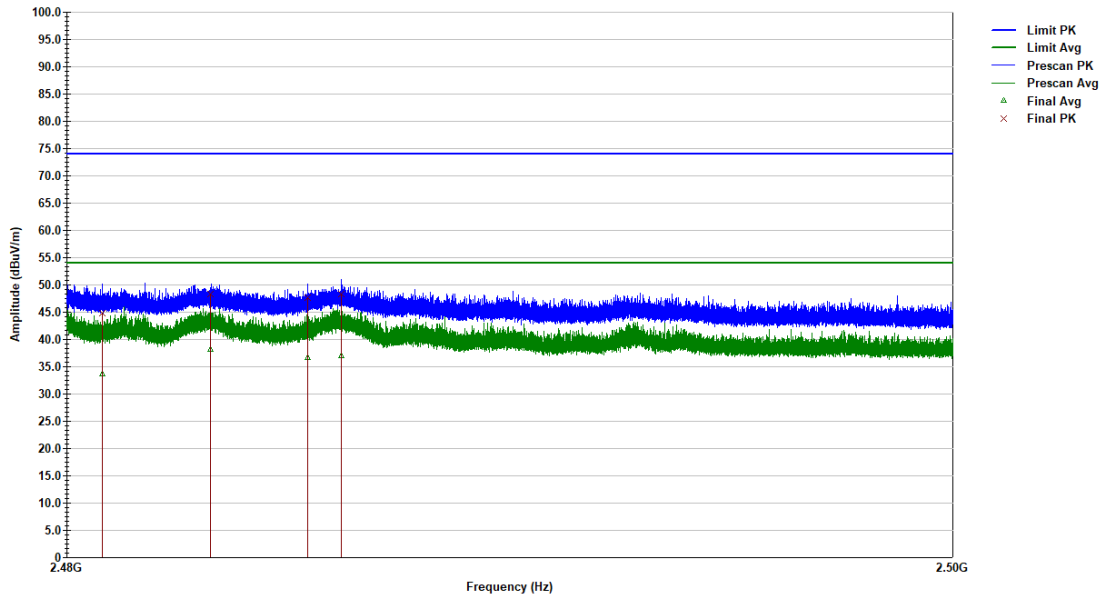
Test Mode - 802.11 b-NOHT 2462MHz Tx Mode

Operator - AG

Horizontal AVG

Standard - FCC 15.247

Comments - Restricted Band 2483.5 - 2500MHz, Power 66, 1Mbps



2462 1 66 b-NOHT_Restricted Band_2483-2500MHz_3117 2024.ttl

Last Data Update 05:58:28 AM, Monday, August 19, 2024

Peak Data

Freq. (MHz)	Final PK (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
2484.161	44.88	-0.11	-29.12	74	400	304
2486.175	48.31	-0.1	-25.69	74	400	77
2487.981	47.59	-0.09	-26.41	74	400	72
2488.597	48.36	-0.09	-25.64	74	400	68

Average

Freq. (MHz)	Final AVG (dBμV/m)	Duty Cycle Corr. (dB)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
2483.598	40.76	0.0	-0.11	-13.24	54	327	225
2485.914	36.7	0.0	-0.1	-17.3	54	400	380
2486.595	39.34	0.0	-0.09	-14.66	54	400	241
2486.866	37.64	0.0	-0.09	-16.36	54	400	264

Vertical 802.11b NOHT High Channel (2462MHz)

SGS NA, San Diego Regulatory Lab

Model # - Alarm.Com / V730

Radiated Emissions

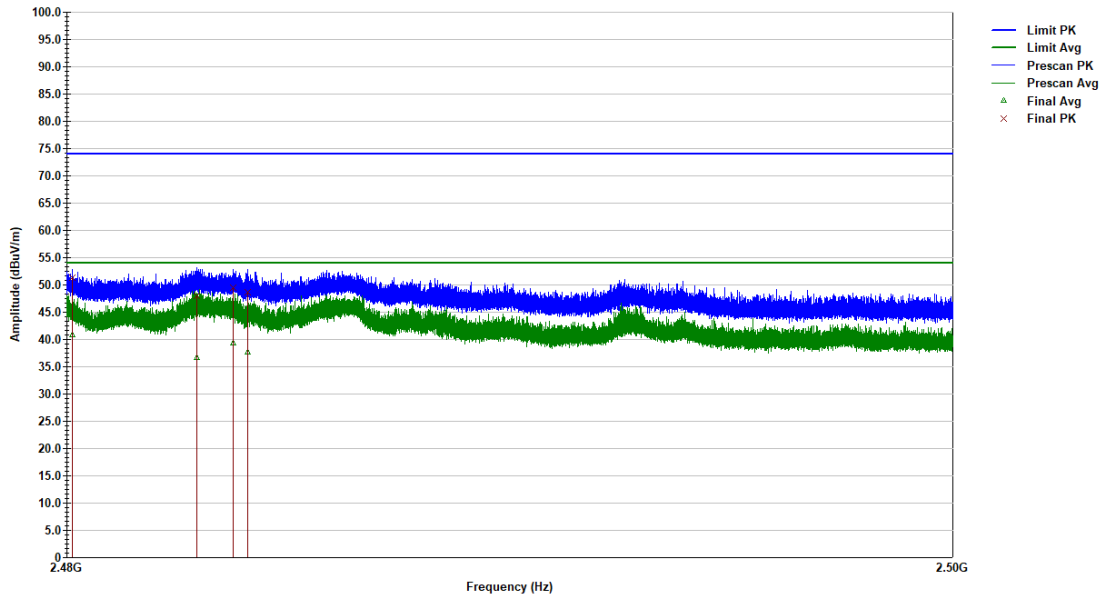
Test Mode - 802.11 b-NOHT 2462MHz Tx Mode

Vertical AVG

Operator - AG

Standard - FCC 15.247

Comments - Restricted Band 2483.5 - 2500MHz, Power 66, 1Mbps



2462 1 66 b-NOHT_Restricted Band_2483-2500MHz_3117 2024.ttl

Last Data Update 05:49:26 AM, Monday, August 19, 2024

Peak Data

Freq. (MHz)	Final PK (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
2483.598	51.39	-0.11	-22.61	74	327	225
2485.914	48.05	-0.1	-25.95	74	400	380
2486.595	49.54	-0.1	-24.46	74	400	241
2486.866	48.69	-0.1	-25.31	74	400	264

Average

Freq. (MHz)	Final AVG (dBμV/m)	Duty Cycle Corr. (dB)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
2483.598	40.76	0.0	-0.11	-13.24	54	327	225
2485.914	36.7	0.0	-0.1	-17.3	54	400	380
2486.595	39.34	0.0	-0.1	-14.66	54	400	241
2486.866	37.64	0.0	-0.1	-16.36	54	400	264

Horizontal 802.11g NOHT Low Channel (2412MHz)

SGS NA, San Diego Regulatory Lab

Radiated Emissions

Horizontal AVG

Model # - Alarm.Com / V730

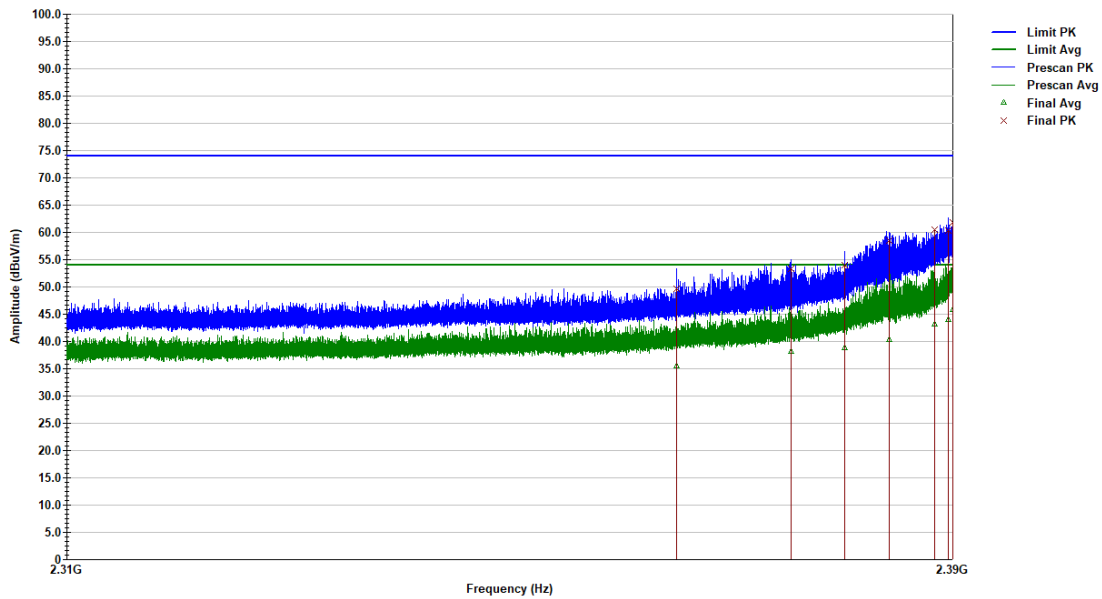
Test Mode - 802.11 g-NOHT 2412MHz Tx Mode

Operator - AG

Standard - FCC 15.247

Comments - Restricted Band 2310- 2390MHz, Power:62

48Mbps



2412 48 62 g-NOHT Restricted Band_2310-2390MHz_3117 2024 - rerun.tif

Last Data Update 11:43:03 AM, Monday, August 19, 2024

Peak Data

Freq. (MHz)	Final PK (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
2364.776	49.62	-0.68	-24.38	74	365	181
2375.186	53.35	-0.66	-20.65	74	164	173
2380.102	53.91	-0.66	-20.09	74	164	149
2384.176	58.48	-0.63	-15.52	74	244	148
2388.31	60.46	-0.6	-13.54	74	243	152
2389.554	60.29	-0.59	-13.71	74	204	152
2390	61.74	-0.59	-12.26	74	244	148

Average

Freq. (MHz)	Final AVG (dBμV/m)	Duty Cycle Corr. (dB)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
2364.776	35.54	0.12	-0.68	-18.46	54	365	181
2375.186	38.22	0.12	-0.66	-15.78	54	164	173
2380.102	38.95	0.12	-0.66	-15.05	54	164	149
2384.176	40.47	0.12	-0.63	-13.53	54	244	148
2388.31	43.35	0.12	-0.6	-10.65	54	243	152
2389.554	44.15	0.12	-0.59	-9.85	54	204	152
2390	45.98	0.12	-0.59	-8.02	54	244	148

Vertical 802.11g NOHT Low Channel (2412MHz)

SGS NA, San Diego Regulatory Lab

Radiated Emissions

Vertical AVG

Model # - Alarm.Com / V730

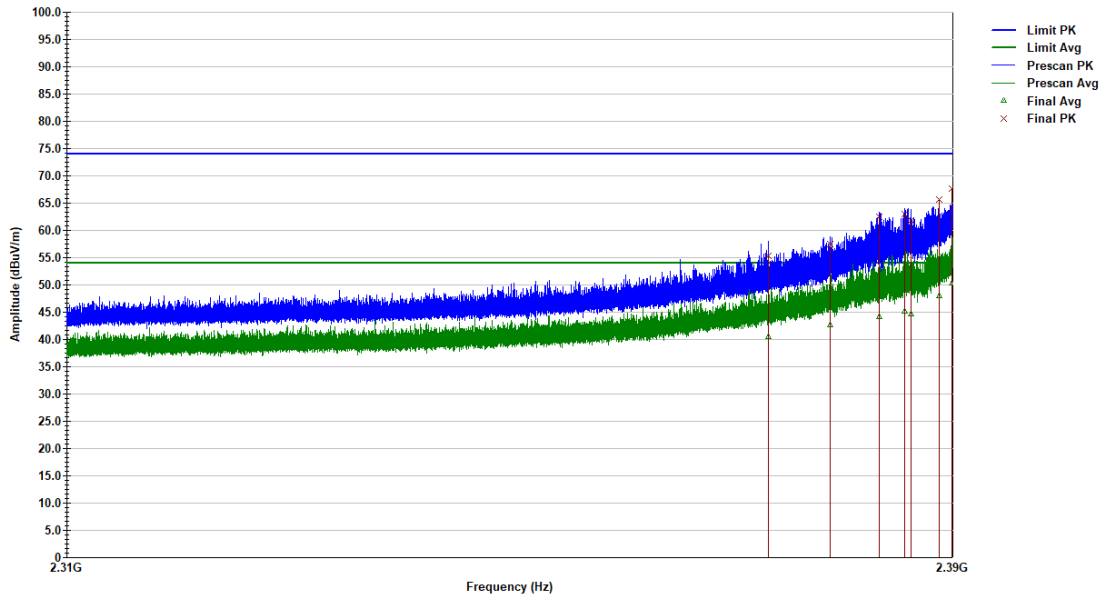
Test Mode - 802.11 g-NOHT 2412MHz Tx Mode

Operator - AG

Standard - FCC 15.247

Comments - Restricted Band 2310- 2390MHz, Power:62

48Mbps



2412 48 62 g-NOHT Restricted Band_2310-2390MHz_3117 2024 - rerun.ttl

Last Data Update 11:21:55 AM, Monday, August 19, 2024

Peak Data

Freq. (MHz)	Final PK (dBuV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBuV/m)	Ant. Height (cm)	Azimuth (deg.)
2373.118	55.35	-0.67	-18.65	74	284	217
2378.77	57.48	-0.66	-16.52	74	150	272
2383.242	62.41	-0.63	-11.59	74	150	273
2385.622	62.93	-0.62	-11.07	74	150	272
2386.136	61.81	-0.62	-12.19	74	181	275
2388.748	65.62	-0.6	-8.38	74	342	232
2389.902	67.7	-0.59	-6.3	74	164	241

Average

Freq. (MHz)	Final AVG (dBµV/m)	Duty Cycle Corr. (dB)	Total Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Ant. Height (cm)	Azimuth (deg.)
2373.118	40.55	0.12	-0.67	-13.45	54	284	217
2378.77	42.75	0.12	-0.66	-11.25	54	150	272
2383.242	44.3	0.12	-0.63	-9.7	54	150	273
2385.622	45.24	0.12	-0.62	-8.76	54	150	272
2386.136	44.82	0.12	-0.62	-9.18	54	181	275
2388.748	48.08	0.12	-0.6	-5.92	54	342	232
2389.902	50.48	0.12	-0.59	-3.52	54	164	241

Horizontal 802.11g NOHT High Channel (2462MHz)

SGS NA, San Diego Regulatory Lab

Radiated Emissions

Horizontal AVG

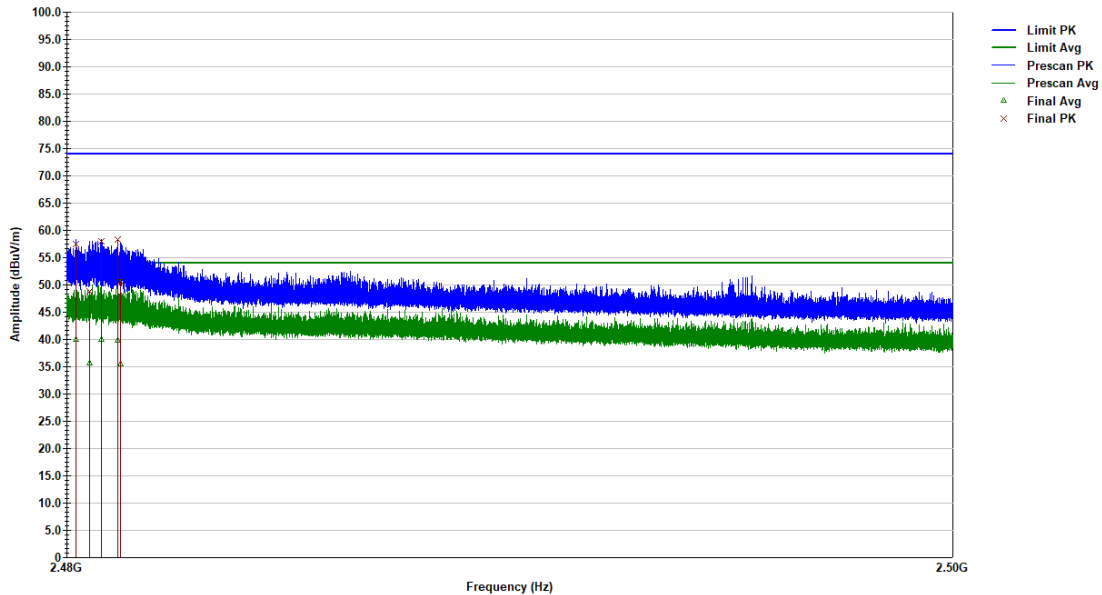
Model # - Alarm.Com / V730

Test Mode - 802.11 g-NOHT 2462MHz Tx Mode

Operator - AG

Standard - FCC 15.247

Comments - Restricted Band 2483.5 - 2500MHz, Power 55,
36Mbps



2462 36 55 g-NOHT_Restricted Band_2483-2500MHz_3117 2024.til

Last Data Update 07:13:56 AM, Monday, August 19, 2024

Peak Data

Freq. (MHz)	Final PK (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
2483.676	57.43	-0.11	-16.57	74	400	257
2483.923	48.84	-0.11	-25.16	74	400	380
2484.142	58.04	-0.11	-15.96	74	400	250
2484.438	58.35	-0.11	-15.65	74	400	247
2484.498	50.73	-0.11	-23.27	74	400	380

Average

Freq. (MHz)	Final AVG (dBμV/m)	Duty Cycle Corr. (dB)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
2483.676	40.11	0.09	-0.11	-13.89	54	400	257
2483.923	35.76	0.09	-0.11	-18.24	54	400	380
2484.142	40.05	0.09	-0.11	-13.95	54	400	250
2484.438	39.9	0.09	-0.11	-14.1	54	400	247
2484.498	35.5	0.09	-0.11	-18.5	54	400	380

Vertical 802.11g NOHT High Channel (2462MHz)

SGS NA, San Diego Regulatory Lab

Radiated Emissions

Vertical AVG

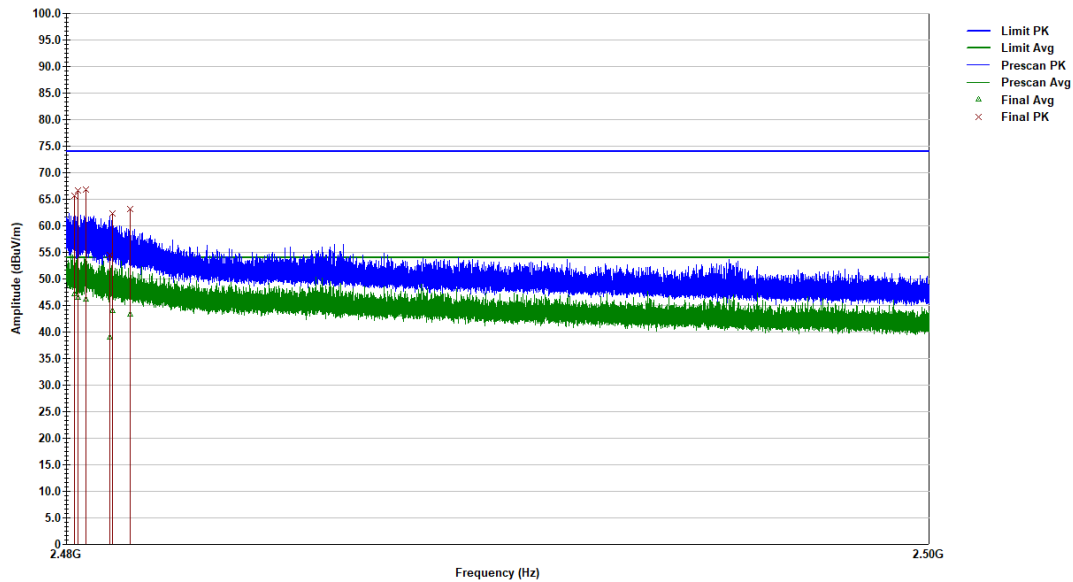
Model # - Alarm.Com / V730

Test Mode - 802.11 g-NOHT 2462MHz Tx Mode

Operator - AG

Standard - FCC 15.247

Comments - Restricted Band 2483.5 - 2500MHz, Power 55, 36Mbps



2462 36 55 g-NOHT_Restricted Band_2483-2500MHz_3117 2024.ttl

Last Data Update 07:02:41 AM, Monday, August 19, 2024

Peak Data

Freq. (MHz)	Final PK (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
2483.648	65.68	-0.11	-8.32	74	200	270
2483.719	66.61	-0.11	-7.39	74	200	276
2483.879	66.8	-0.11	-7.2	74	200	275
2484.326	54.46	-0.11	-19.54	74	384	380
2484.381	62.4	-0.11	-11.6	74	400	253
2484.711	63.12	-0.1	-10.88	74	400	253

Average

Freq. (MHz)	Final AVG (dBμV/m)	Duty Cycle Corr. (dB)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
2483.648	47.22	0.09	-0.11	-6.78	54	200	270
2483.719	46.52	0.09	-0.11	-7.48	54	200	276
2483.879	46.24	0.09	-0.11	-7.76	54	200	275
2484.326	39.07	0.09	-0.11	-14.93	54	384	380
2484.381	44.16	0.09	-0.11	-9.84	54	400	253
2484.711	43.38	0.09	-0.1	-10.62	54	400	253

Horizontal 802.11n HT20 Low Channel (2412MHz)

SGS NA, San Diego Regulatory Lab

Radiated Emissions

Horizontal AVG

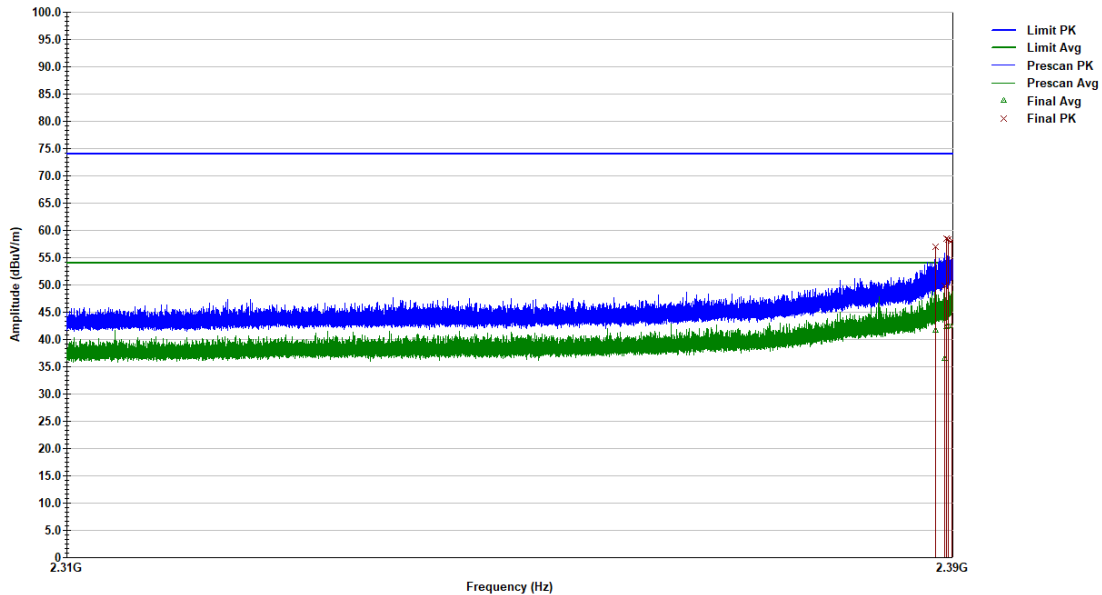
Model # - Alarm.Com / V730

Test Mode - 802.11n HT20 2412MHz Tx Mode

Operator - AG

Standard - FCC 15.247

Comments - Restricted Band 2310- 2390MHz, Power:57 mcs3



2412 mcs3 57 n-HT20 Restricted Band_2310-2390MHz_3117 2024.ttl

Last Data Update 07:49:58 AM, Monday, August 19, 2024

Peak Data

Freq. (MHz)	Final PK (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
2388.412	56.97	-0.6	-17.03	74	400	95
2389.29	49.8	-0.59	-24.2	74	400	-20
2389.438	58.58	-0.59	-15.42	74	400	90
2389.59	58.33	-0.59	-15.67	74	400	98
2389.96	58.19	-0.59	-15.81	74	400	87

Average

Freq. (MHz)	Final AVG (dBμV/m)	Duty Cycle Corr. (dB)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
2388.412	41.58	0.0	-0.6	-12.42	54	400	95
2389.29	36.56	0.0	-0.59	-17.44	54	400	-20
2389.438	42.36	0.0	-0.59	-11.64	54	400	90
2389.59	42.49	0.0	-0.59	-11.51	54	400	98
2389.96	42.51	0.0	-0.59	-11.49	54	400	87

Vertical 802.11n HT20 Low Channel (2412MHz)

SGS NA, San Diego Regulatory Lab

Radiated Emissions

Vertical AVG

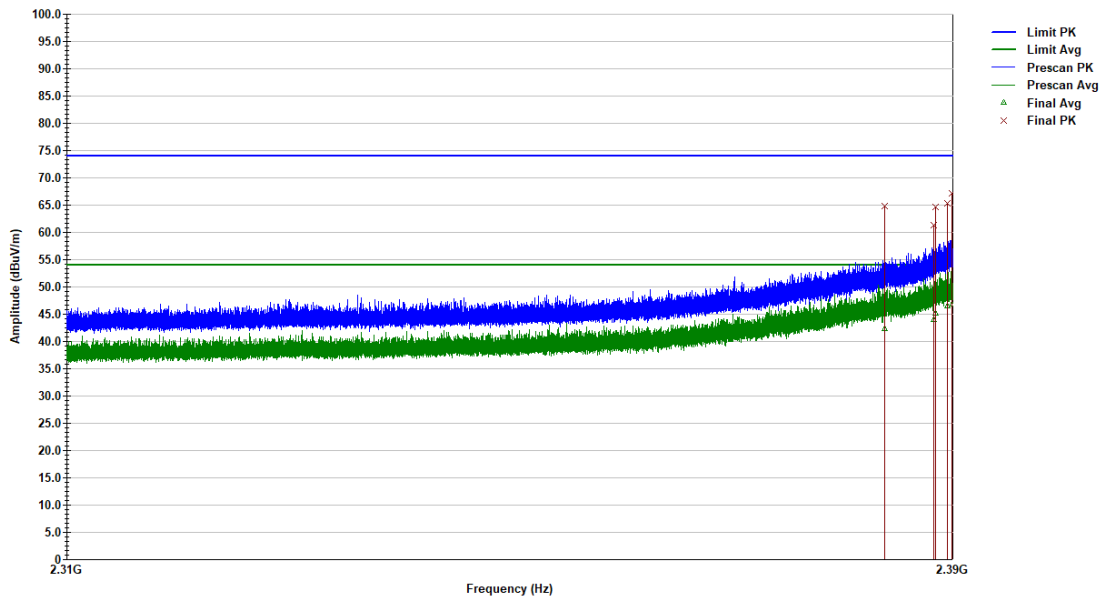
Model # - Alarm.Com / V730

Test Mode - 802.11n HT20 2412MHz Tx Mode

Operator - AG

Standard - FCC 15.247

Comments - Restricted Band 2310- 2390MHz, Power:57 mcs3



2412 mcs3 57 n-HT20 Restricted Band_2310-2390MHz_3117 2024.ttl

Last Data Update 07:37:39 AM, Monday, August 19, 2024

Peak Data

Freq. (MHz)	Final PK (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
2383.72	64.84	-0.63	-9.16	74	279	245
2388.256	61.4	-0.6	-12.6	74	400	237
2388.444	64.66	-0.6	-9.34	74	400	253
2389.506	65.31	-0.59	-8.69	74	400	253
2389.93	67.19	-0.59	-6.81	74	400	253

Average

Freq. (MHz)	Final AVG (dBμV/m)	Duty Cycle Corr. (dB)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
2383.72	42.37	0.0	-0.63	-11.63	54	279	245
2388.256	43.92	0.0	-0.6	-10.08	54	400	237
2388.444	45.25	0.0	-0.6	-8.75	54	400	253
2389.506	46.42	0.0	-0.59	-7.58	54	400	253
2389.93	46.9	0.0	-0.59	-7.1	54	400	253

Horizontal 802.11n HT20 High Channel (2462MHz)

SGS NA, San Diego Regulatory Lab

Radiated Emissions

Horizontal AVG

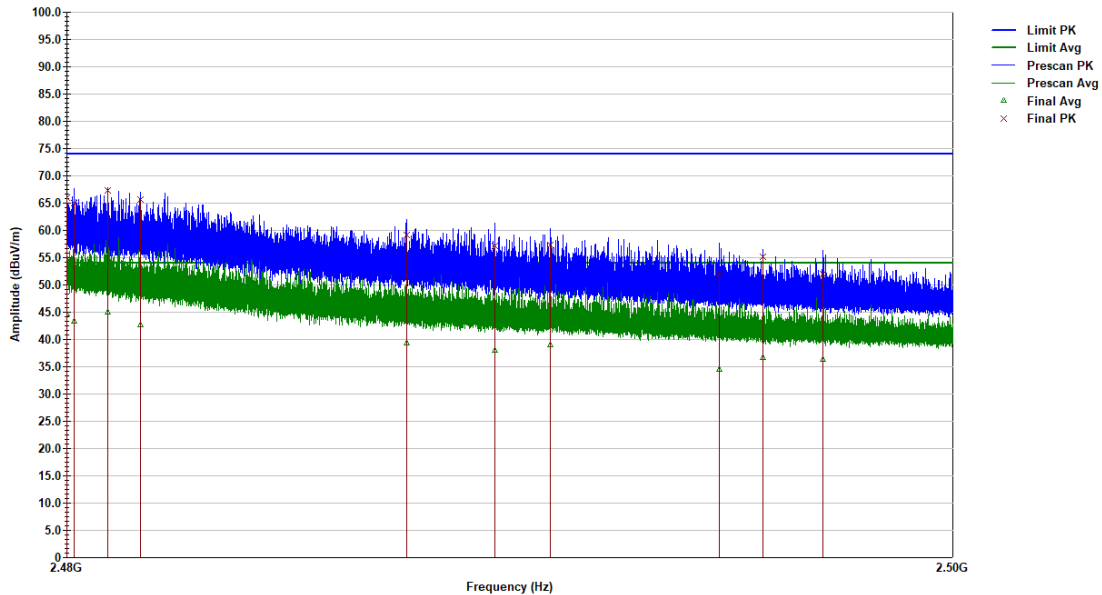
Model # - Alarm.Com / V730

Test Mode - 802.11n HT20 2462MHz Tx Mode

Operator - AG

Standard - FCC 15.247

Comments - Restricted Band 2483.5 - 2500MHz, Power 57,
mcs5



2462 mcs5 57 n-HT20_Restricted Band_2483-2500MHz_3117 2024_redo_2.ttl

Last Data Update 01:59:44 PM, Monday, August 19, 2024

Peak Data

Freq. (MHz)	Final PK (dBuV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBuV/m)	Ant. Height (cm)	Azimuth (deg.)
2483.5	65.94	-0.11	-8.06	74	400	247
2483.638	65.04	-0.11	-8.96	74	150	151
2484.252	67.37	-0.11	-6.63	74	220	213
2484.874	65.6	-0.1	-8.4	74	244	243
2489.808	59.22	-0.09	-14.78	74	268	223
2491.45	57.18	-0.08	-16.82	74	400	223
2492.49	57.39	-0.08	-16.61	74	252	223
2495.643	52.06	-0.07	-21.94	74	356	380
2496.455	55.14	-0.07	-18.86	74	272	223
2497.577	51.95	-0.06	-22.05	74	245	223

Average

Freq. (MHz)	Final AVG (dBμV/m)	Duty Cycle Corr. (dB)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
2483.5	44.64	0.0	-0.11	-9.36	54	400	247
2483.638	43.25	0.0	-0.11	-10.75	54	150	151
2484.252	44.99	0.0	-0.11	-9.01	54	220	213
2484.874	42.6	0.0	-0.1	-11.4	54	244	243
2489.808	39.4	0.0	-0.09	-14.6	54	268	223
2491.45	38.05	0.0	-0.08	-15.95	54	400	223
2492.49	38.92	0.0	-0.08	-15.08	54	252	223
2495.643	34.45	0.0	-0.07	-19.55	54	356	380
2496.455	36.73	0.0	-0.07	-17.27	54	272	223
2497.577	36.4	0.0	-0.06	-17.6	54	245	223

Vertical 802.11n HT20 High Channel (2462MHz)

SGS NA, San Diego Regulatory Lab

Radiated Emissions

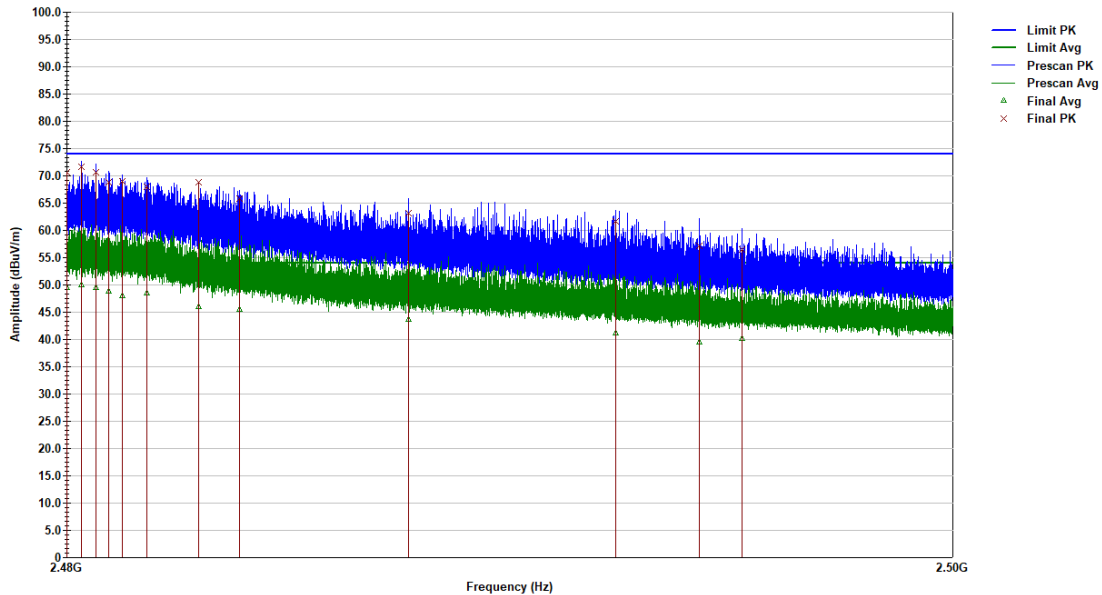
Vertical AVG

Model # - Alarm.Com / V730

Test Mode - 802.11n HT20 2462MHz Tx Mode

Operator - AG

Standard - FCC 15.247

Comments - Restricted Band 2483.5 - 2500MHz, Power 57,
mcs5


2462 mcs5 57 n-HT20_Restricted Band_2483-2500MHz_3117 2024_redo_2.ttl

Last Data Update 12:44:45 PM, Monday, August 19, 2024

Peak Data

Freq. (MHz)	Final PK (dBuV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBuV/m)	Ant. Height (cm)	Azimuth (deg.)
2483.5	70.69	-0.11	-3.31	74	204	259
2483.77	71.59	-0.11	-2.41	74	172	268
2484.033	70.58	-0.11	-3.42	74	212	249
2484.281	68.89	-0.11	-5.11	74	220	268
2484.524	69.02	-0.11	-4.98	74	197	280
2484.991	68.03	-0.1	-5.97	74	213	222
2485.952	68.76	-0.1	-5.24	74	213	237
2486.708	65.73	-0.1	-8.27	74	156	272
2489.852	63.22	-0.09	-10.78	74	382	249
2493.706	61.68	-0.08	-12.32	74	285	249
2495.273	57.11	-0.07	-16.89	74	293	253
2496.059	56.45	-0.07	-17.55	74	253	226

Average

Freq. (MHz)	Final AVG (dBµV/m)	Duty Cycle Corr. (dB)	Total Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Ant. Height (cm)	Azimuth (deg.)
2483.5	49.49	0.0	-0.11	-4.51	54	204	259
2483.77	50.02	0.0	-0.11	-3.98	54	172	268
2484.033	49.46	0.0	-0.11	-4.54	54	212	249
2484.281	48.75	0.0	-0.11	-5.25	54	220	268
2484.524	47.94	0.0	-0.11	-6.06	54	197	280
2484.991	48.53	0.0	-0.1	-5.47	54	213	222
2485.952	46.02	0.0	-0.1	-7.98	54	213	237
2486.708	45.49	0.0	-0.1	-8.51	54	156	272
2489.852	43.68	0.0	-0.09	-10.32	54	382	249
2493.706	41.11	0.0	-0.08	-12.89	54	285	249
2495.273	39.41	0.0	-0.07	-14.59	54	293	253
2496.059	40.14	0.0	-0.07	-13.86	54	253	226

Horizontal 802.11ax HE20 Low Channel (2412MHz)

SGS NA, San Diego Regulatory Lab

Radiated Emissions

Horizontal AVG

Model # - Alarm.Com / V730

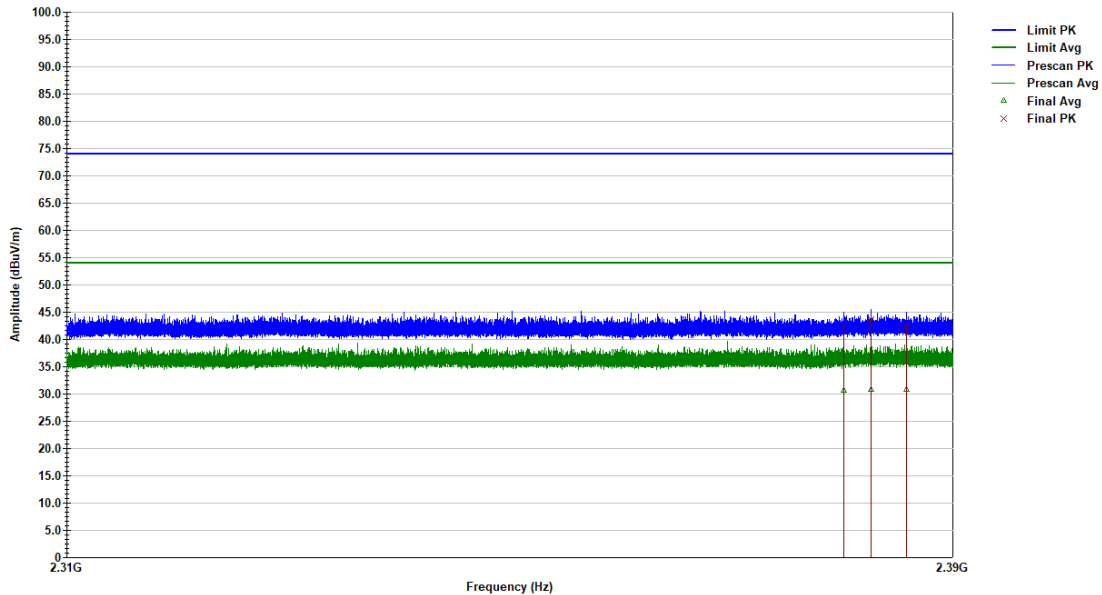
Test Mode - 802.11ax HE20 2412MHz Tx Mode

Operator - AG

Standard - FCC 15.247

Comments - Restricted Band 2310- 2390MHz, Power:62

mcs4



2412 mcs4 62 ax20_Restricted Band_2310-2390MHz_3117 2024.til

Last Data Update 09:00:02 AM, Monday, August 19, 2024

Peak Data

Freq. (MHz)	Final PK (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
2380.006	42.37	-0.66	-31.63	74	400	81
2382.522	43.59	-0.64	-30.41	74	400	288
2385.782	42.63	-0.62	-31.37	74	400	347

Average

Freq. (MHz)	Final AVG (dBμV/m)	Duty Cycle Corr. (dB)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
2380.006	30.68	0.0	-0.66	-23.32	54	400	81
2382.522	30.79	0.0	-0.64	-23.21	54	400	288
2385.782	30.77	0.0	-0.62	-23.23	54	400	347

Vertical 802.11ax HE20 Low Channel (2412MHz)

SGS NA, San Diego Regulatory Lab

Radiated Emissions

Vertical AVG

Model # - Alarm.Com / V730

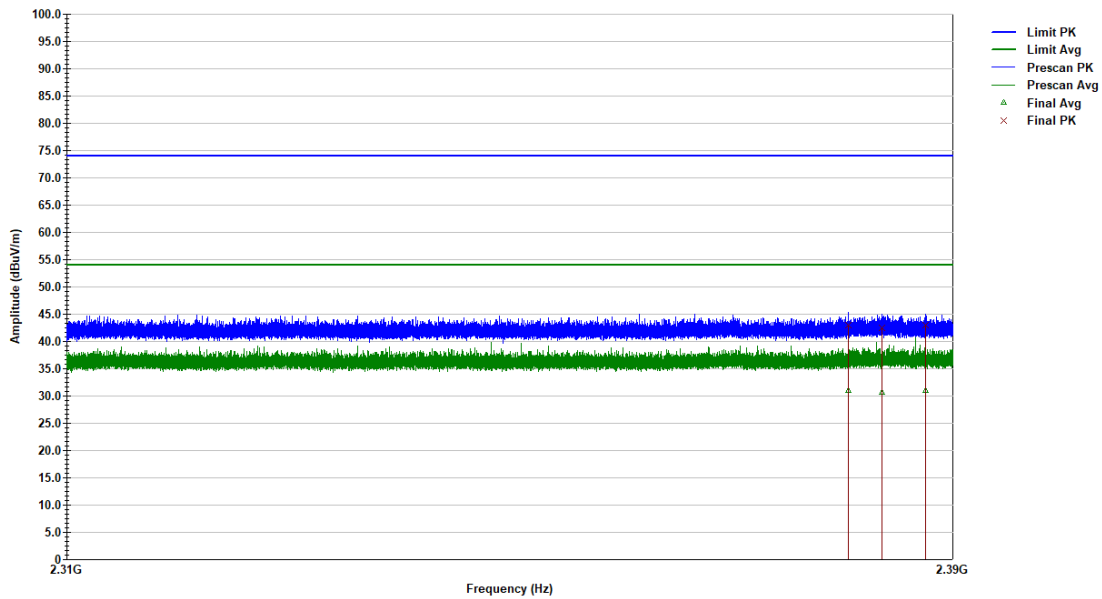
Test Mode - 802.11ax HE20 2412MHz Tx Mode

Operator - AG

Standard - FCC 15.247

Comments - Restricted Band 2310- 2390MHz, Power:62

mcs4



2412 mcs4 62 ax20_Restricted Band_2310-2390MHz_3117 2024.ttl

Last Data Update 08:53:32 AM, Monday, August 19, 2024

Peak Data

Freq. (MHz)	Final PK (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
2380.442	43.03	-0.65	-30.97	74	200	271
2383.512	42.41	-0.63	-31.59	74	344	-11
2387.484	42.94	-0.61	-31.06	74	400	233

Average

Freq. (MHz)	Final AVG (dBμV/m)	Duty Cycle Corr. (dB)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
2380.442	30.99	0.0	-0.65	-23.01	54	200	271
2383.512	30.73	0.0	-0.63	-23.27	54	344	-11
2387.484	31.04	0.0	-0.61	-22.96	54	400	233

Horizontal 802.11ax HE20 High Channel (2462MHz)

SGS NA, San Diego Regulatory Lab

Radiated Emissions

Horizontal AVG

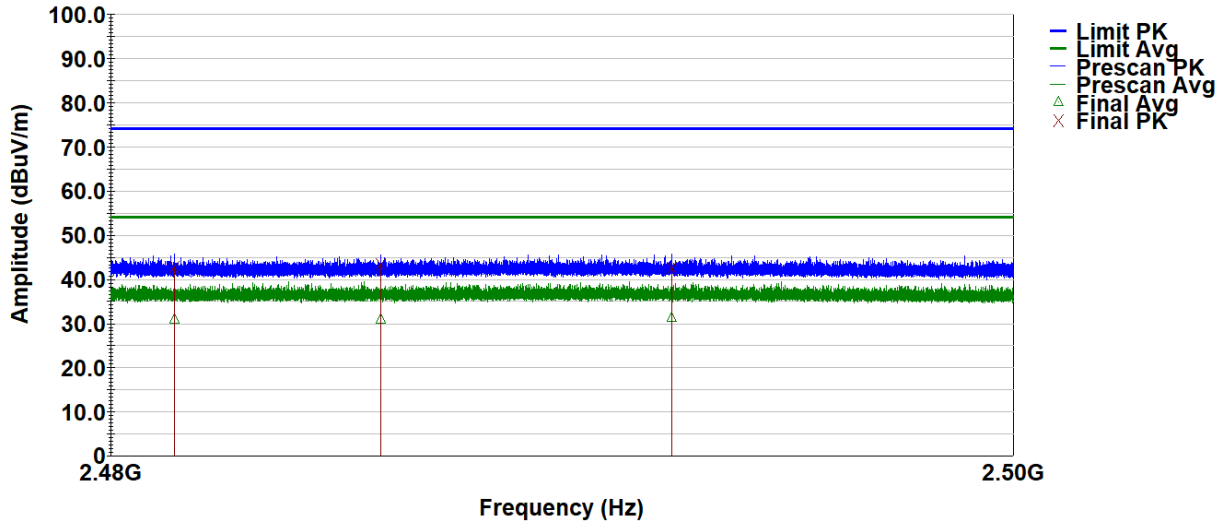
Model # - Alarm.Com / V730

Test Mode - 802.11ax HE20 2462MHz Tx Mode

Operator - AG

Standard - FCC 15.247

Comments - Restricted Band 2483.5 - 2500MHz, Power 55, mcs7



2462 mcs7 55 ax20_Restricted Band_2483-2500MHz_3117 2024.til

Last Data Update 10:14:56 AM, Monday, August 19, 2024

Peak Data

Freq. (MHz)	Final PK (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
2480.349	44.12	-0.12	-29.88	74	180	139
2484.657	42.79	-0.11	-31.21	74	324	252
2488.432	43.44	-0.09	-30.56	74	292	108
2493.751	42.65	-0.08	-31.35	74	372	25

Average

Freq. (MHz)	Final AVG (dBμV/m)	Duty Cycle Corr. (dB)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
2480.349	32.06	0.0	-0.12	-21.94	54	180	139
2484.657	31.18	0.0	-0.11	-22.82	54	324	252
2488.432	31.18	0.0	-0.09	-22.82	54	292	108
2493.751	31.23	0.0	-0.08	-22.77	54	372	25

Vertical 802.11ax HE20 High Channel (2462MHz)

SGS NA, San Diego Regulatory Lab

Radiated Emissions

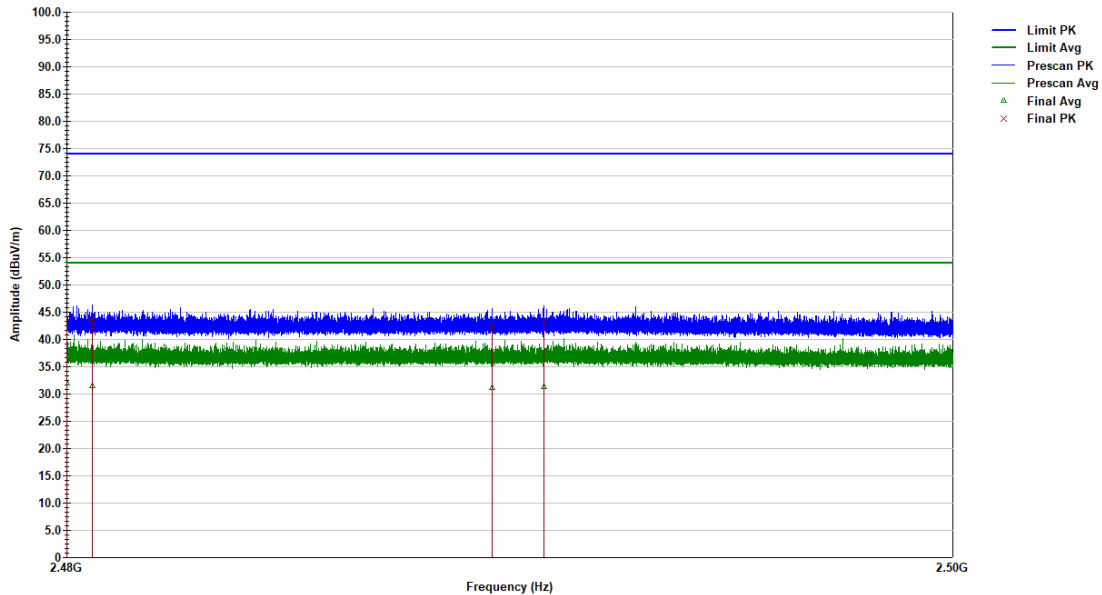
Vertical AVG

Model # - Alarm.Com / V730

Test Mode - 802.11ax HE20 2462MHz Tx Mode

Operator - AG

Standard - FCC 15.247

Comments - Restricted Band 2483.5 - 2500MHz, Power 55,
mcs7


2462 mcs7 55 ax20_Restricted Band_2483-2500MHz_3117 2024.til

Last Data Update 09:59:22 AM, Monday, August 19, 2024

Peak Data

Freq. (MHz)	Final PK (dBμV/m)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
2483.5	43.98	-0.11	-30.02	74	287	236
2483.973	43.88	-0.11	-30.12	74	400	268
2491.403	42.74	-0.08	-31.26	74	400	139
2492.368	43.45	-0.08	-30.55	74	400	320

Average

Freq. (MHz)	Final AVG (dBμV/m)	Duty Cycle Corr. (dB)	Total Corr. (dB)	Margin (dB)	Limit (dBμV/m)	Ant. Height (cm)	Azimuth (deg.)
2483.5	32.01	0.0	-0.11	-21.99	54	287	236
2483.973	31.56	0.0	-0.11	-22.44	54	400	268
2491.403	31.12	0.0	-0.08	-22.88	54	400	139
2492.368	31.38	0.0	-0.08	-22.62	54	400	320

9 AC Powerline Conducted Emissions

9.1 Test Result

Test Description	Test Specification		Test Result
AC Powerline Conducted Emissions	15.207	RSS-GEN S8.8	Complies

9.2 Test Method

With the receiver's resolution bandwidth was set to 9 kHz, exploratory scans were performed over the measuring frequency range (0.15 MHz to 30 MHz) using a max hold mode incorporating a Peak detector and Average detector and using the TILE! software. The final test data was measured using a Quasi-Peak detector and Average detector and compared against the limits indicated in the table below.

Frequency Range	Limits (dBuV)
0.15 to 0.5 MHz	Avg 56 to 46 QP 66 to 56
0.5 to 5 MHz	Avg 46 Pk 56
5 to 30 MHz	Avg 50 Pk 60

9.3 Additional information

None.

9.4 Test Site and Environmental Condition

EMC Laboratory, San Diego, CA

Environmental Conditions

Temperature: 20 – 25 °C

Relative Humidity: 35 – 50 %

9.5 Test Equipment

Test Dates: December 06, 2024

Tester:

Andreas Gillmeier

Asset No.	Type of Equipment	Model	Serial No.	Manufacturer	Cal Date	Cal Due Date
Radiated Emission < 1 GHz						
2017	EMI Receiver	N9038B	MY59050132	Keysight	10/24/2023	01/24/2025
2027	LISN	EMV216	101535	Rohde&Schwarz	01/29/2024	01/29/2025
Miscellaneous						
2036	Temp/Humidity Data Logger	GSP-8	CMA231100002	Elitech	07/09/2024	07/09/2025
-	Test Software	TILE!	V7.9.3.7	ETS Lindgren	N/A	

9.6 Test Setup Photographs

Test setup photographs are located in a separate report (208949-8).

9.7 Test Data

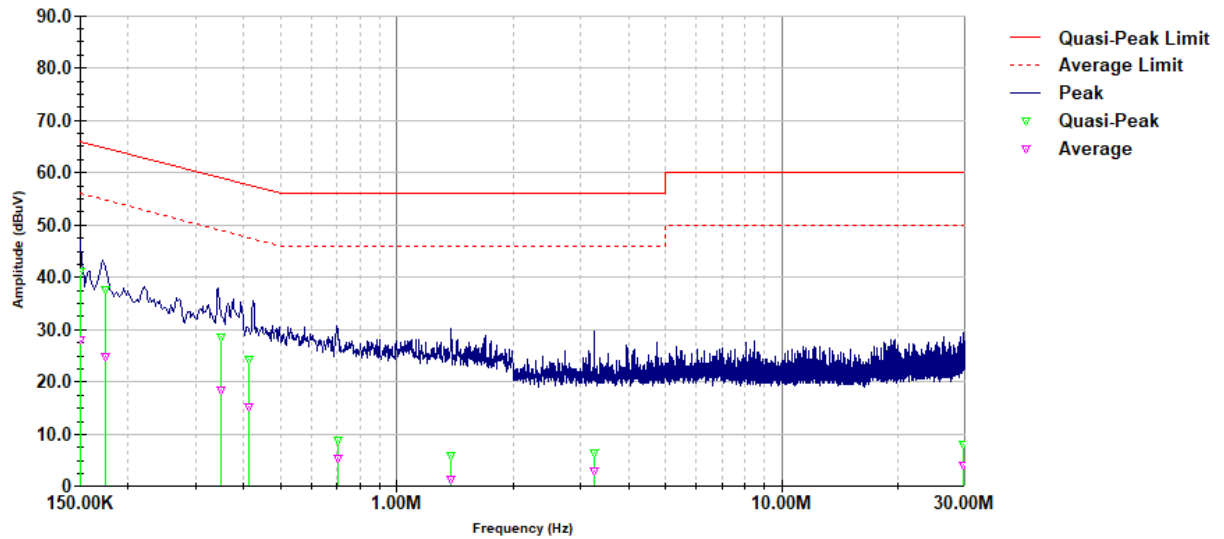
Conducted Emissions Line 1

SGS NA, San Diego Regulatory Lab

Conducted Emissions

Line 1 Results

Model - Alarm.com / V730
Serial # - N/A
Test Mode - 120V AC / 60 Hz, LISN 1
Operator - AG
Standard - FCC Part 15C Class B
Comments - 2437 MHz, 802.11b NOHT, 11 Mbps, pwr 72, new power supply



2_4GHz_Tx_WiFi_x_CISPR LISN 2024-02-06.ttl

Last Data Update 10:30:13 AM, Friday, December 06, 2024

Quasi-Peak Data

Freq. (MHz)	Final QP (dBμV)	Total Corr. (dB)	Margin (dB)	Limit (dBμV)
0.15	41.01	9.48	-24.99	66
0.175	37.72	9.48	-27.57	65.29
0.348	28.72	9.51	-31.62	60.34
0.413	24.33	9.52	-34.15	58.48
0.704	8.89	9.54	-47.11	56
1.383	5.92	9.56	-50.08	56
3.257	6.58	9.63	-49.42	56
29.642	8.17	10.36	-51.83	60

Average Data

Freq. (MHz)	Final AVG (dBμV)	Total Corr. (dB)	Margin (dB)	Limit (dBμV)
0.15	27.95	9.48	-28.05	56
0.175	24.96	9.48	-30.33	55.29
0.348	18.61	9.51	-31.74	50.34
0.413	15.38	9.52	-33.1	48.48
0.704	5.46	9.54	-40.54	46
1.383	1.52	9.56	-44.48	46
3.257	3.15	9.63	-42.85	46
29.642	4.18	10.36	-45.82	50

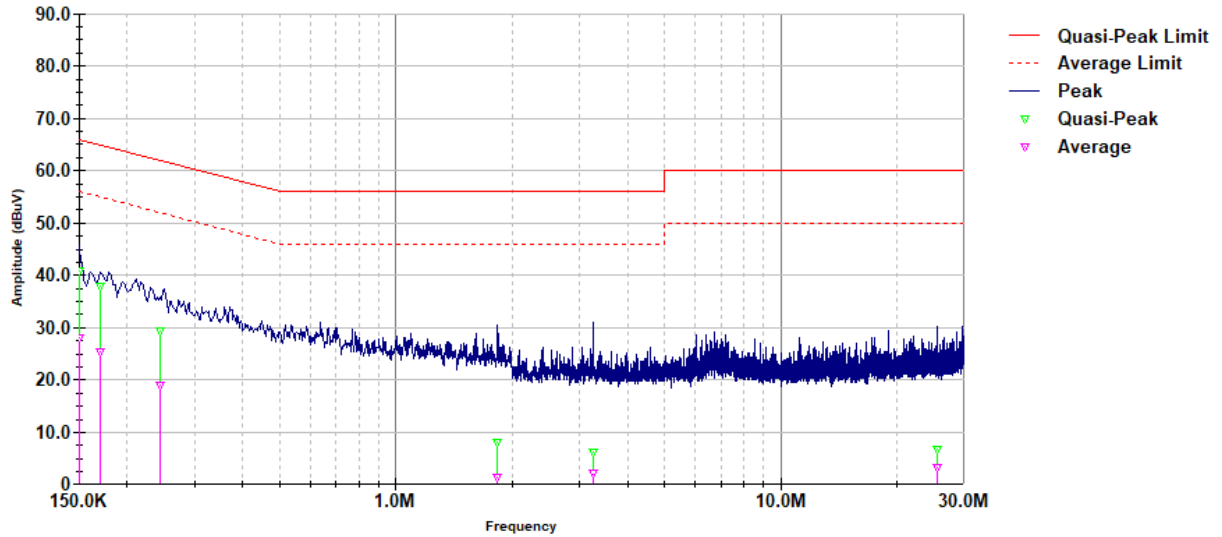
Conducted Emissions Neutral

SGS NA, San Diego Regulatory Lab

Conducted Emissions

Neutral Line Results

Model - Alarm.com / V730
Serial # - N/A
Test Mode - 120V AC / 60 Hz, LISN 1
Operator - AG
Standard - FCC Part 15C Class B
Comments - 2437 MHz, 802.11b NOHT, 11 Mbps, pwr 72, new power supply



2_4GHz_Tx_WiFi_x_CISPR LISN 2024-02-06.ttl

Last Data Update 10:33:11 AM, Friday, December 06, 2024

Quasi-Peak Data

Freq. (MHz)	Final QP (dBμV)	Total Corr. (dB)	Margin (dB)	Limit (dBμV)
0.15	40.95	9.49	-25.05	66
0.17025	37.88	9.5	-27.54	65.42
0.2445	29.41	9.52	-33.89	63.3
1.83975	8.22	9.62	-47.78	56
3.26175	6.26	9.71	-49.74	56
25.52175	6.69	10.43	-53.31	60

Average Data

Freq. (MHz)	Final AVG (dBμV)	Total Corr. (dB)	Margin (dB)	Limit (dBμV)
0.15	27.96	9.49	-28.04	56
0.17025	25.34	9.5	-30.08	55.42
0.2445	19.14	9.52	-34.16	53.3
1.83975	1.5	9.62	-44.5	46
3.26175	2.1	9.71	-43.9	46
25.52175	3.27	10.43	-46.73	50

10 Antenna Requirement

10.1 Test Result

Test Description	Test Specification		Test Result
Antenna Requirement	15.203	RSS-GEN S6.8	Compliant

10.2 Applicable Requirement

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §§ 15.211, 15.213, 15.217, 15.219, 15.221, or § 15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

10.3 Antenna Connection/Construction

The antennas are integral and not upgradable. The EUT has a tight construction and to access the antennas the device has to be opened which is affecting the warranty.

Additionally the user guide states “Changes or modifications not expressly approved by the party responsible for compliance could void the user’s authority to operate the equipment.”.

11 Measurement Uncertainty

The measurement uncertainty figures are be calculated in accordance with TR 100 028-1 [2] and correspond to an expansion factor (coverage factor) $k = 2$ (which provide confidence levels of 95,45 % in the case where the distributions characterizing the actual measurement uncertainties are normal (Gaussian)).

Measurement uncertainty is not used to adjust the measurements to determine compliance.

Parameter	Expanded Uncertainty for Normal k factor equal to 2	
	Required	Laboratory Actual
Radio Frequency	$\pm 1 \times 10^{-5}$	$\pm 9.8 \times 10^{-8}$
total RF power, conducted	± 1.5 dB	± 1.2 dB
RF power density, conducted	± 3 dB	± 0.7 dB
spurious emissions, conducted	± 3 dB	± 2.1 dB
all emissions, radiated	± 6 dB	± 4.8 dB
temperature	$\pm 1^{\circ}\text{C}$	$\pm 0.5^{\circ}\text{C}$
humidity	± 5 %	$\pm 3.5\%$
DC and low frequency voltages	± 3 %	$\pm 0.4\%$

12 Revision History

Revision Level	Description of changes	Revision Date
0	Initial release	February 10, 2025
1	Corrected the antenna gain to 4.2 dBi on pages 22 to 24 Corrected cal dates in chapters 7.5, 8.4, 9.6 Corrected values in AVG table on page 90	February 28, 2025