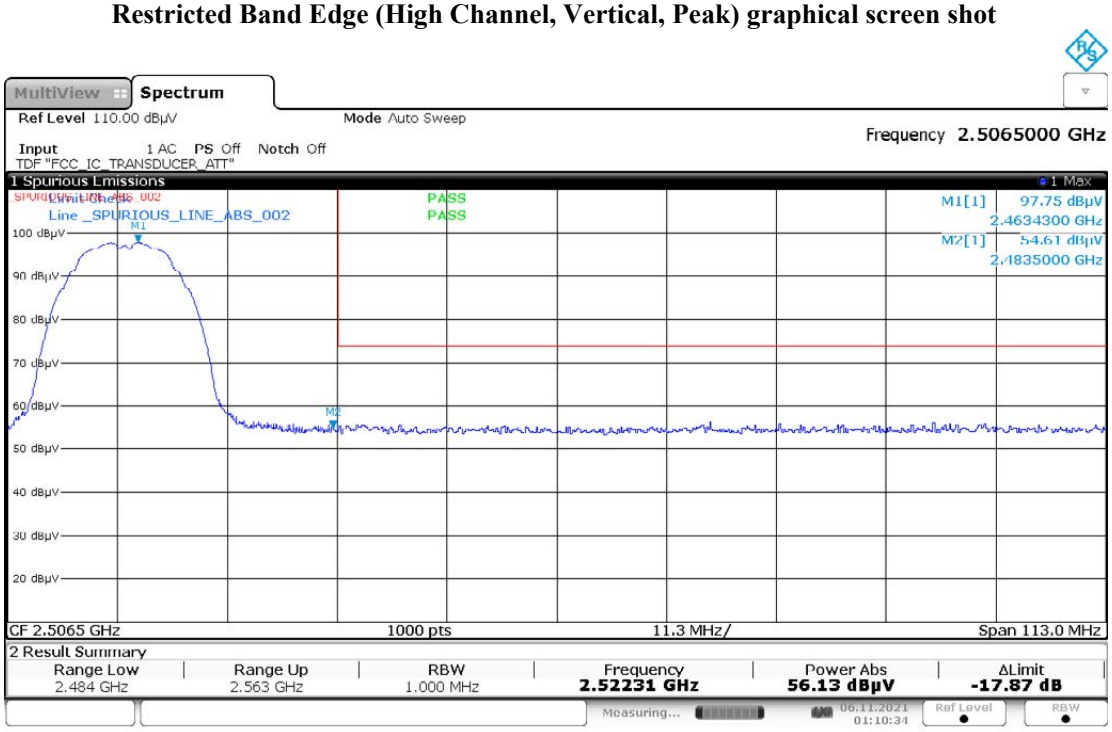
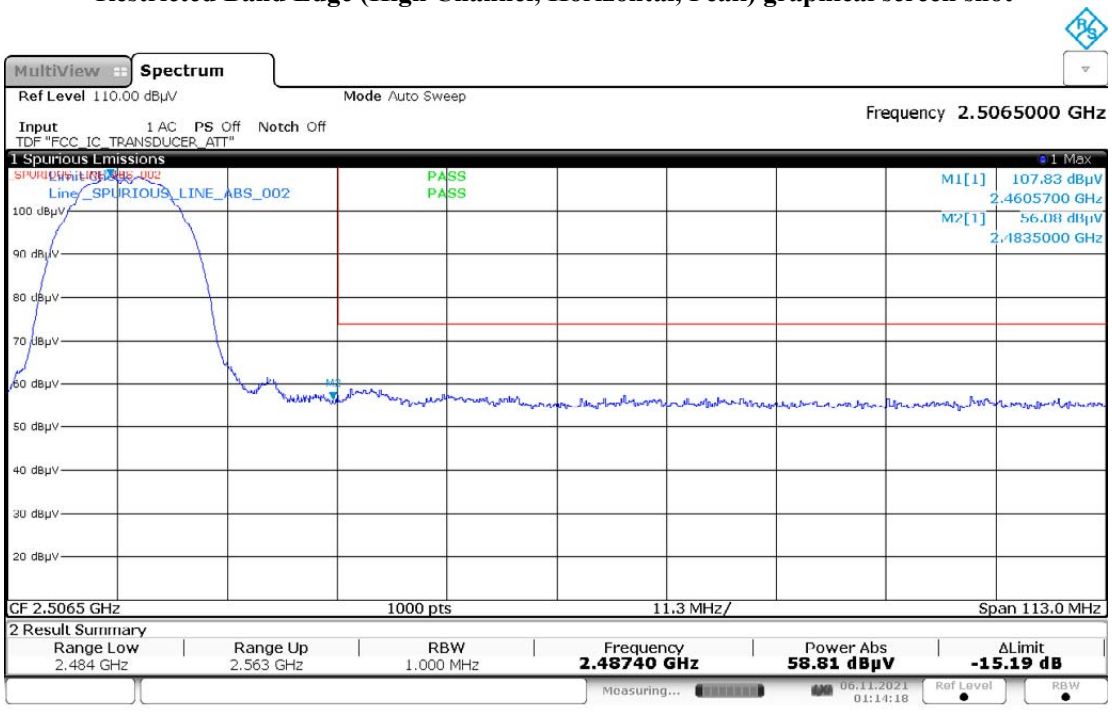
Restricted Band Edge (High Channel, Vertical, Peak) graphical screen shot



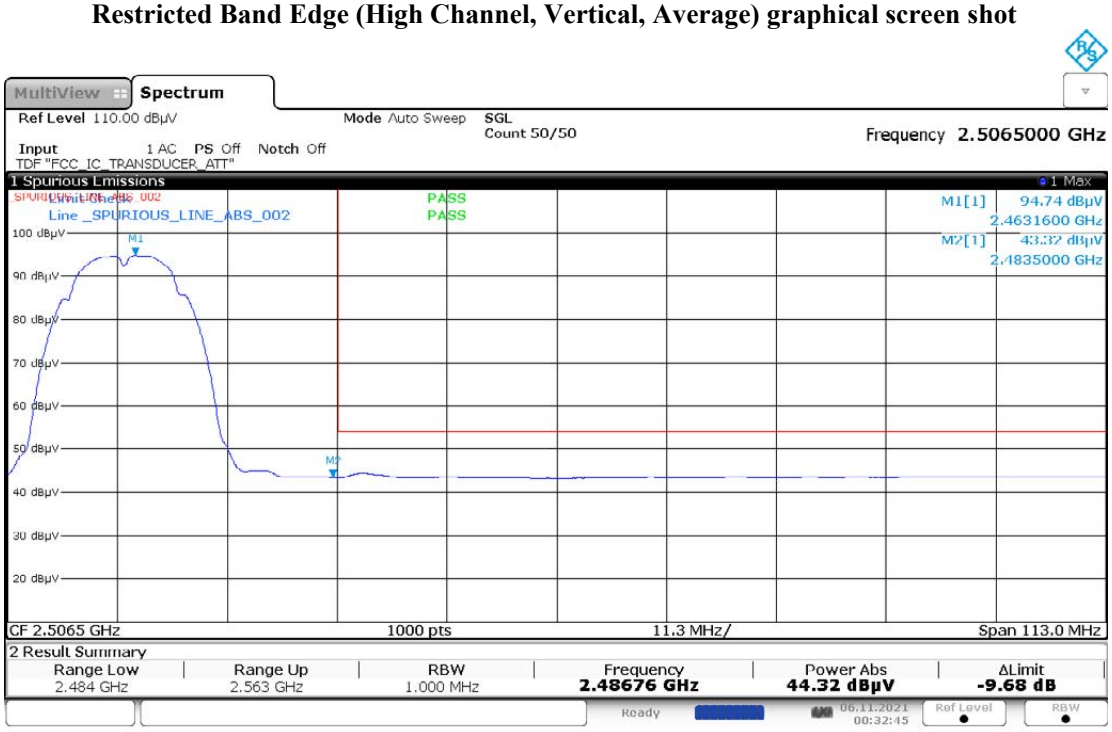
01:10:35 06.11.2021

Restricted Band Edge (High Channel, Horizontal, Peak) graphical screen shot



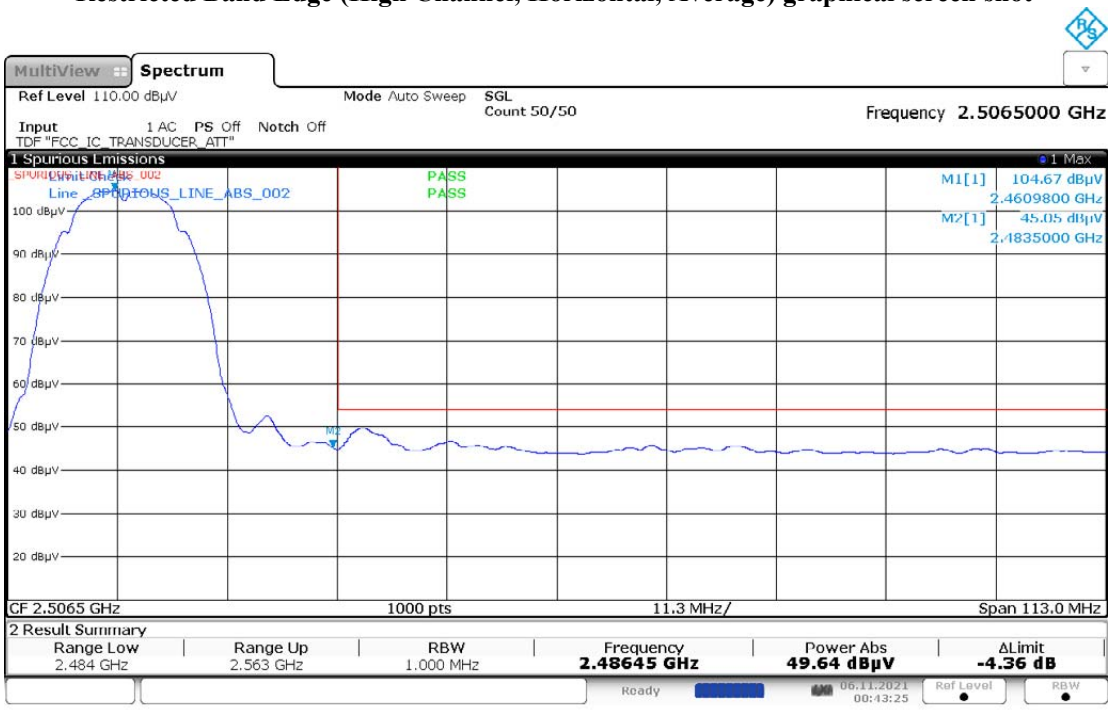
01:14:19 06.11.2021

Restricted Band Edge (High Channel, Vertical, Average) graphical screen shot



00:32:46 06.11.2021

Restricted Band Edge (High Channel, Horizontal, Average) graphical screen shot



00:43:26 06.11.2021

Test: WIFI SAC Restricted Band Edge
Model Number: H98KGH9PW7BN S/N: 481TXV2602 EMC SR ID#: 05897-EMC-00112
Battery: PMNN4494A Accessory: NAR6593A
Test Channel: Low Test Frequency: 2412.0000 MHz Test Standard: ANSI C63.10-2013
Worst Case Plane: X-Plane (802.11g)

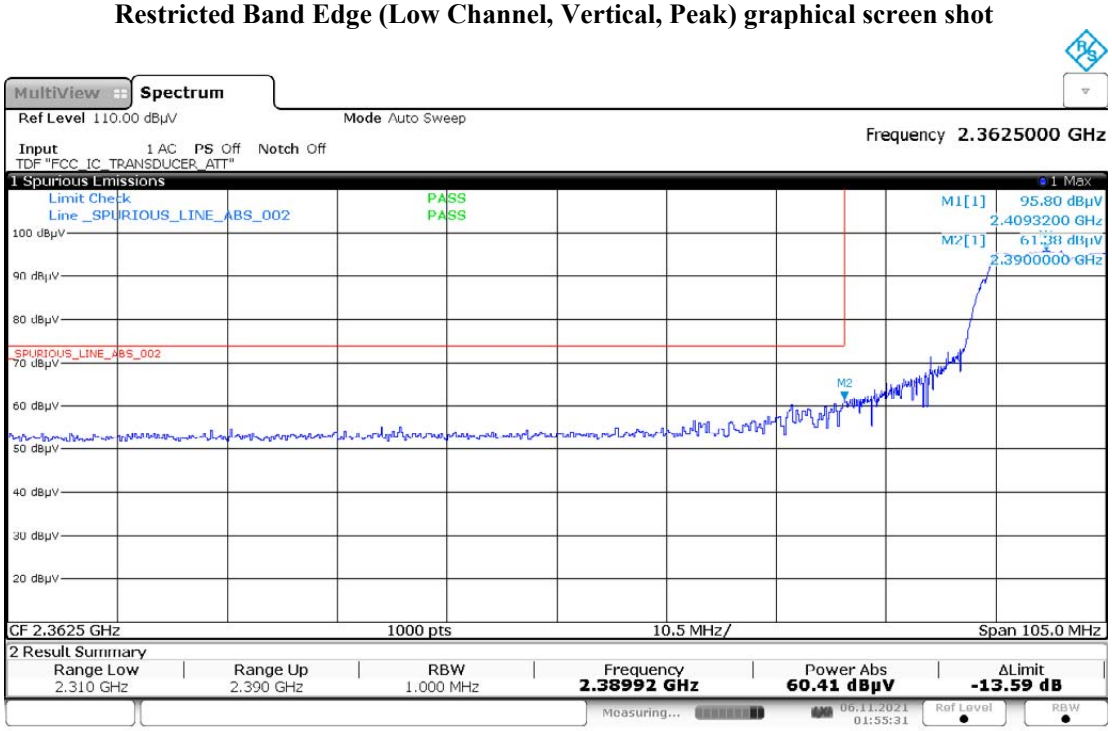
Restricted Band Edge (Low Channel) tabular data

Vertical Radiated Emission Result										
Spur Freq (MHz)	Spur level QPK (dBµV/m)	Spur level PK (dBµV/m)	Spur level AV (dBµV/m)	Limit QPK (dBµV/m)	Limit PK (dBµV/m)	Limit AV (dBµV/m)	Margin QPK (dBµV/m)	Margin PK (dBµV/m)	Margin AV (dBµV/m)	Carrier PK Power (dBµV/m)
2342.4000	-	-	42.0313	-	-	54.0000	-	-	-11.9687	-
2344.0000	-	-	42.0476	-	-	54.0000	-	-	-11.9524	-
2389.7600	-	-	43.1099	-	-	54.0000	-	-	-10.8901	-
2390.0000	-	60.3733	43.0892	-	74.0000	54.0000	-	-13.6267	-10.9108	-
Horizontal Radiated Emission Result										
2324.4800	-	-	42.0335	-	-	54.0000	-	-	-11.9665	-
2364.1600	-	59.7371	-	-	74.0000	-	-	-14.2629	-	-
2381.6000	-	67.0274	-	-	74.0000	-	-	-6.9726	-	-
2387.6800	-	69.4819	-	-	74.0000	-	-	-4.5181	-	-
2389.1200	-	69.9349	-	-	74.0000	-	-	-4.0651	-	-
2389.9200	-	-	47.2843	-	-	54.0000	-	-	-6.7157	-
2390.0000	-	69.6533	47.0900	-	74.0000	54.0000	-	-4.3467	-6.9100	-

Remarks: Pass Result	Marginal Result	Fail Result

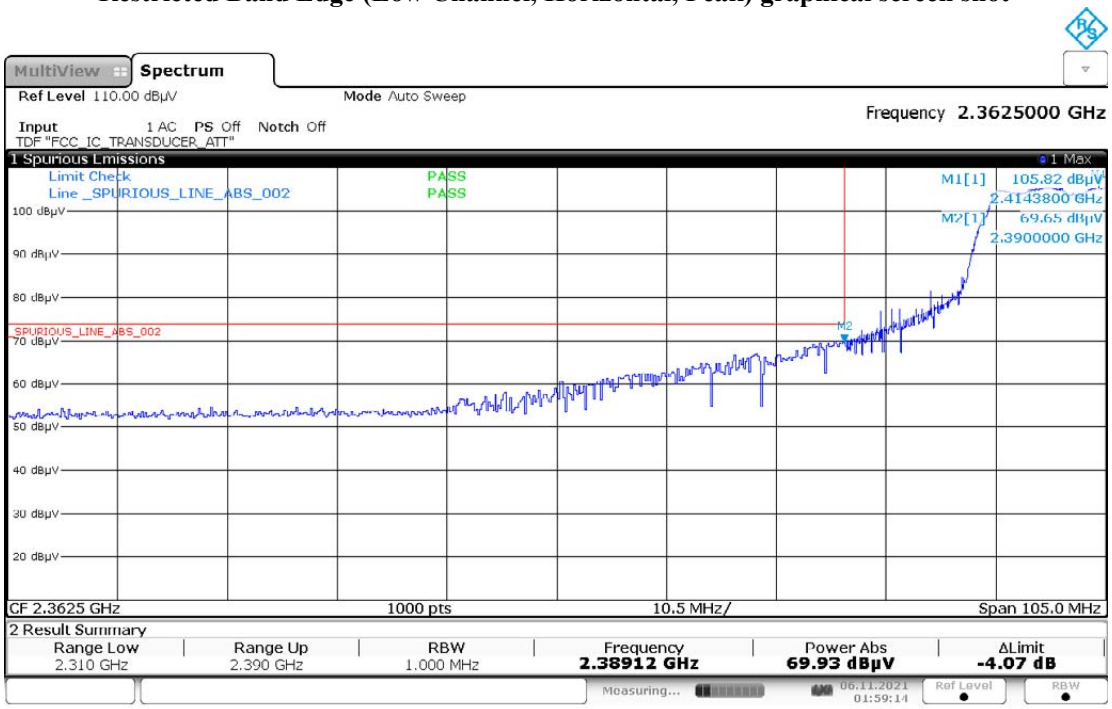
Temperature (degC): 24.1 **Humidity (%): 69.7**
Test Performed by: Qawiman&Nazrin **Test Date: Sat, 6 Nov, 2021**
System MU: 5.84 dB

Restricted Band Edge (Low Channel, Vertical, Peak) graphical screen shot



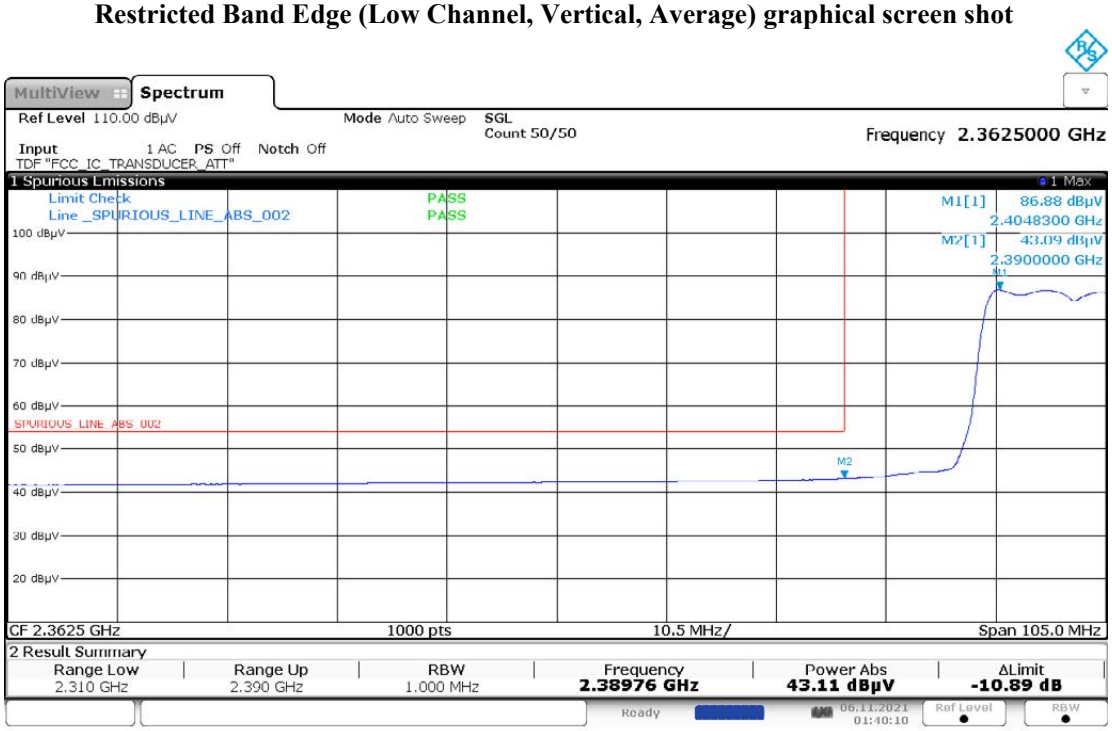
01:55:31 06.11.2021

Restricted Band Edge (Low Channel, Horizontal, Peak) graphical screen shot



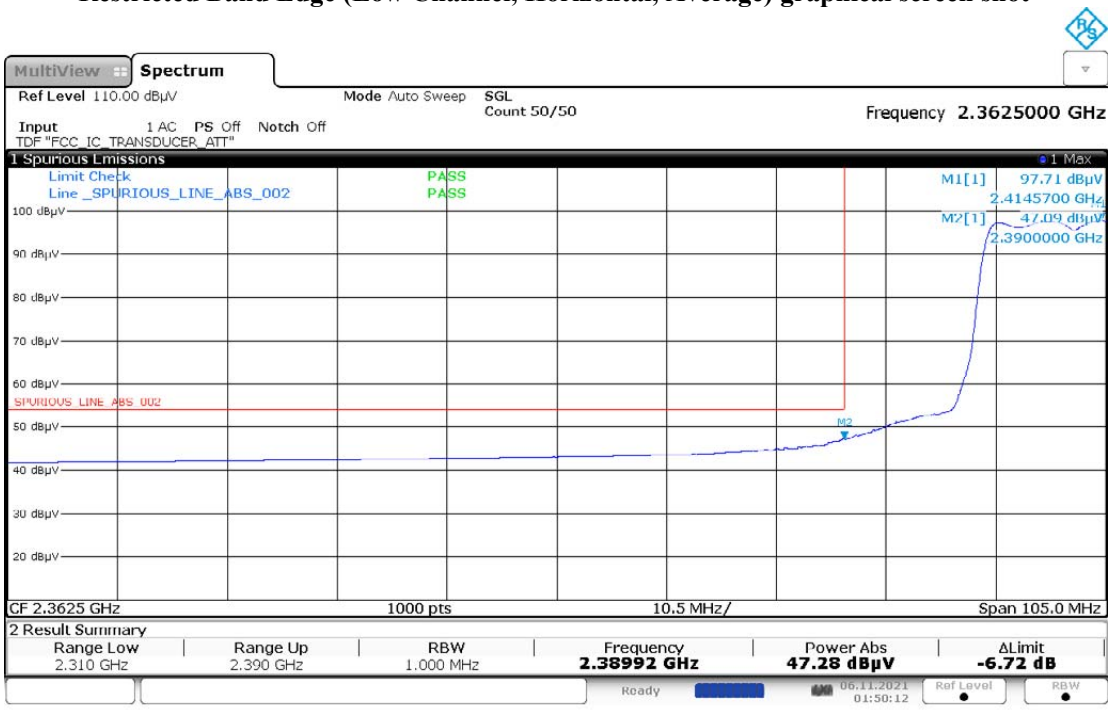
01:59:15 06.11.2021

Restricted Band Edge (Low Channel, Vertical, Average) graphical screen shot



01:40:11 06.11.2021

Restricted Band Edge (Low Channel, Horizontal, Average) graphical screen shot



01:50:13 06.11.2021

Test: WIFI SAC Restricted Band Edge
Model Number: H98KGH9PW7BN S/N: 481TXV2602 EMC SR ID#: 05897-EMC-00112
Battery: PMNN4494A Accessory: NAR6593A
Test Channel: High Test Frequency: 2462.0000 MHz Test Standard: ANSI C63.10-2013
Worst Case Plane: X-Plane (802.11g)

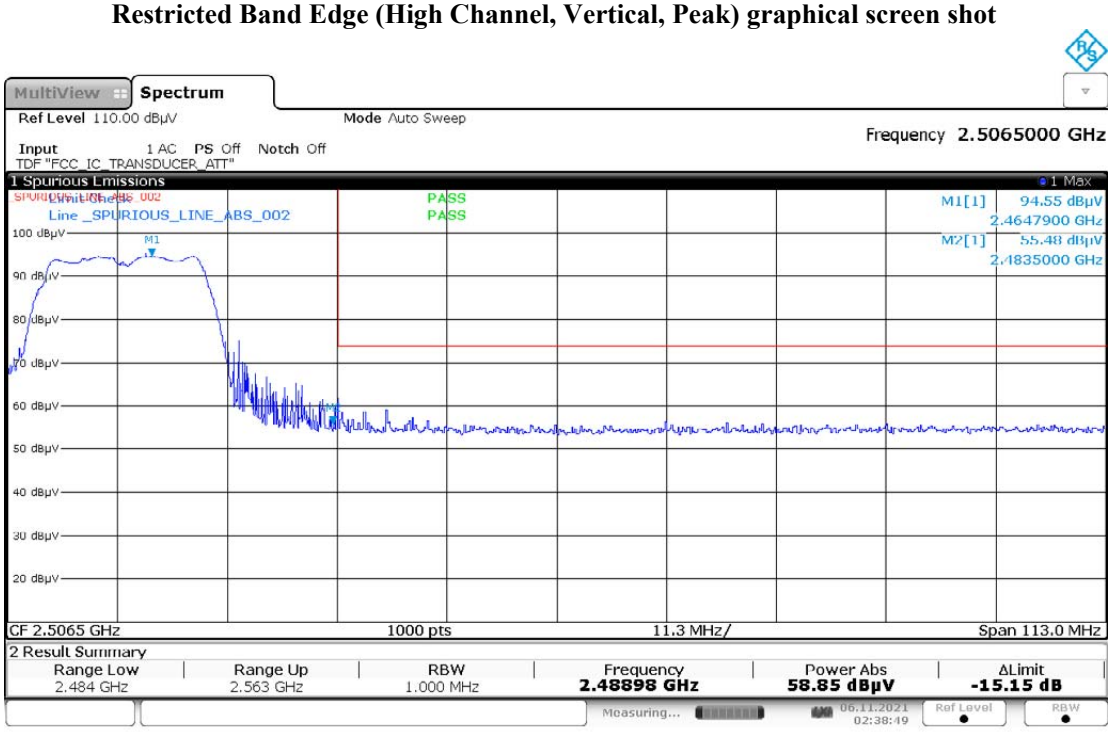
Restricted Band Edge (High Channel) tabular data

Vertical Radiated Emission Result										
Spur Freq (MHz)	Spur level QPK (dBµV/m)	Spur level PK (dBµV/m)	Spur level AV (dBµV/m)	Limit QPK (dBµV/m)	Limit PK (dBµV/m)	Limit AV (dBµV/m)	Margin QPK (dBµV/m)	Margin PK (dBµV/m)	Margin AV (dBµV/m)	Carrier PK Power (dBµV/m)
2483.5000	-	55.4824	43.6761	-	74.0000	54.0000	-	-18.5176	-10.3239	-
Horizontal Radiated Emission Result										
2483.5000	-	61.8331	46.2367	-	74.0000	54.0000	-	-12.1669	-7.7633	-

Remarks: Pass Result	Marginal Result	Fail Result

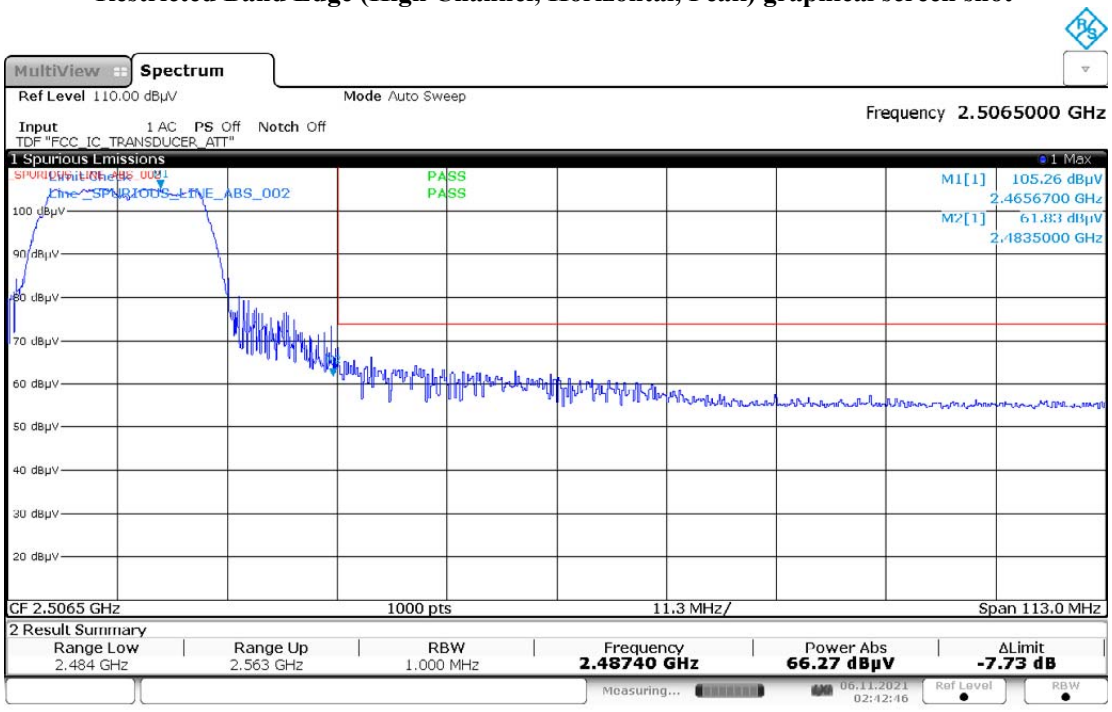
Temperature (degC): 24.1 **Humidity (%): 69.7**
Test Performed by: Qawiman&Nazrin **Test Date: Sat, 6 Nov, 2021**
System MU: 5.84 dB

Restricted Band Edge (High Channel, Vertical, Peak) graphical screen shot



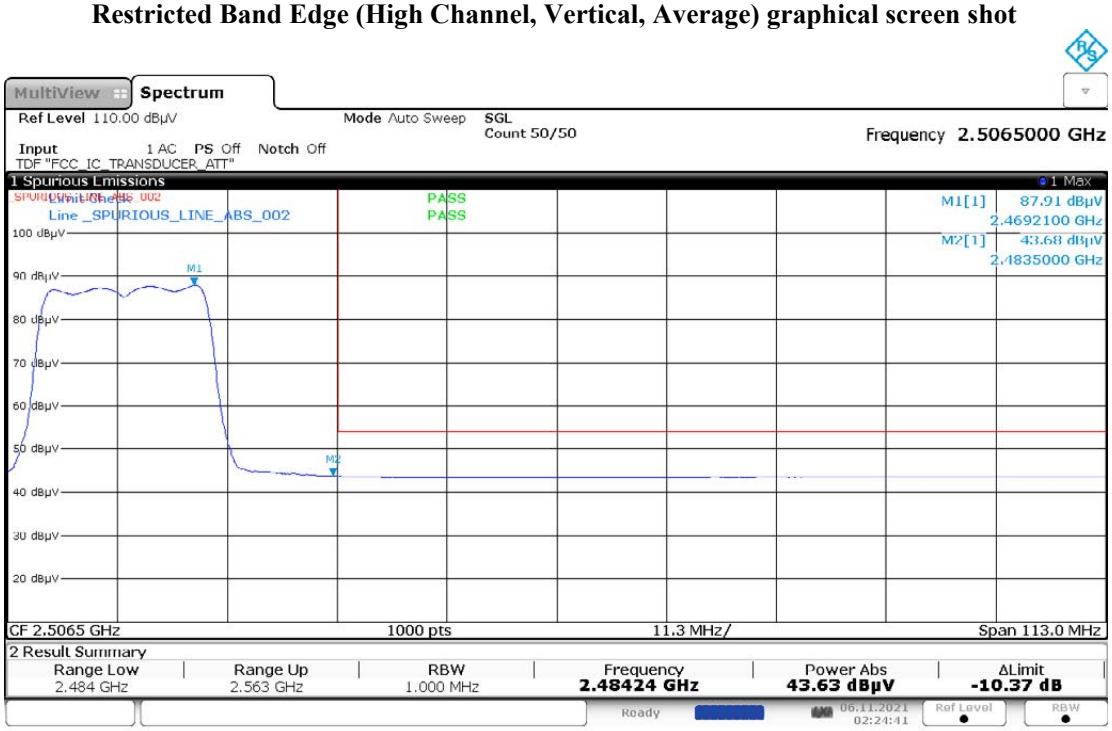
02:38:50 06.11.2021

Restricted Band Edge (High Channel, Horizontal, Peak) graphical screen shot



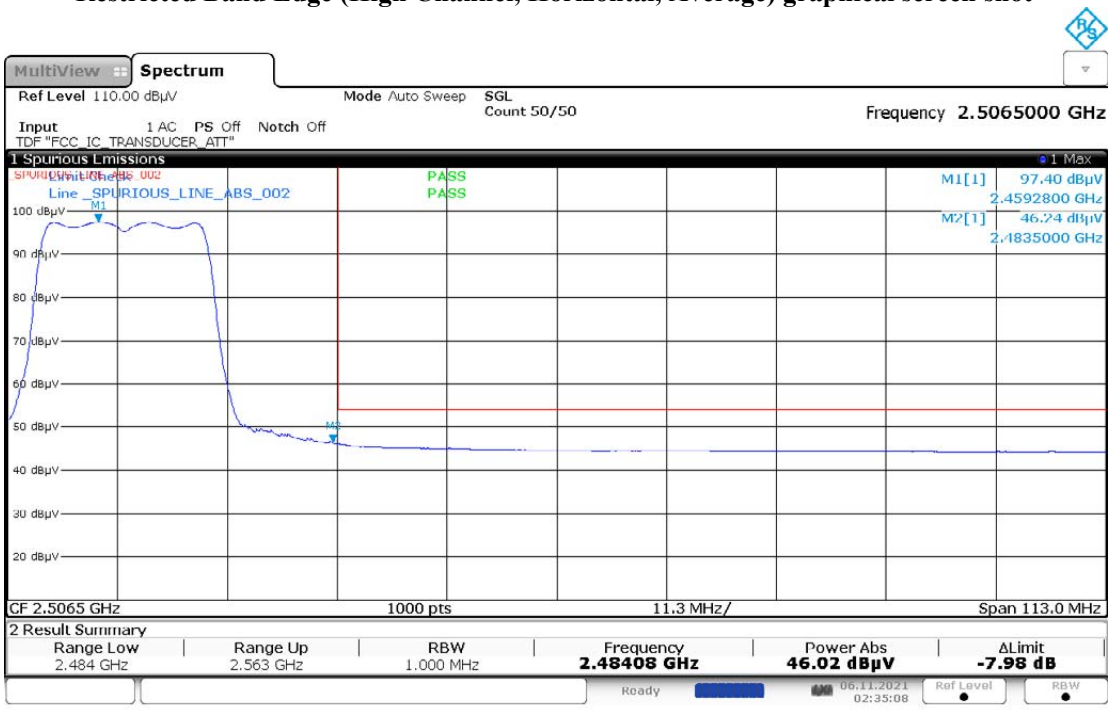
02:42:47 06.11.2021

Restricted Band Edge (High Channel, Vertical, Average) graphical screen shot



02:24:41 06.11.2021

Restricted Band Edge (High Channel, Horizontal, Average) graphical screen shot



02:35:09 06.11.2021

Test: WIFI SAC Restricted Band Edge
Model Number: H98KGH9PW7BN S/N: 481TXV2602 EMC SR ID#: 05897-EMC-00112
Battery: PMNN4494A Accessory: NAR6593A
Test Channel: Low Test Frequency: 2412.0000 MHz Test Standard: ANSI C63.10-2013
Worst Case Plane: X-Plane (802.11n)

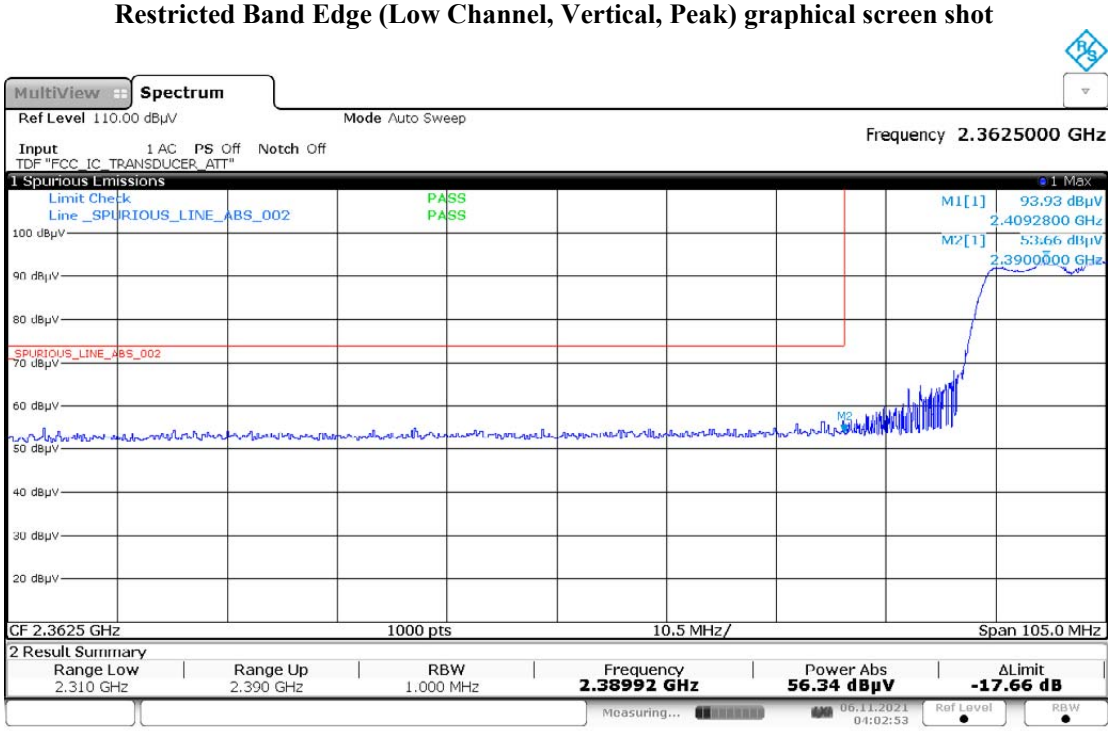
Restricted Band Edge (Low Channel) tabular data

Vertical Radiated Emission Result										
Spur Freq (MHz)	Spur level QPK (dBµV/m)	Spur level PK (dBµV/m)	Spur level AV (dBµV/m)	Limit QPK (dBµV/m)	Limit PK (dBµV/m)	Limit AV (dBµV/m)	Margin QPK (dBµV/m)	Margin PK (dBµV/m)	Margin AV (dBµV/m)	Carrier PK Power (dBµV/m)
2390.0000	-	53.6553	43.0299	-	74.0000	54.0000	-	-20.3447	-10.9701	-
Horizontal Radiated Emission Result										
2390.0000	-	59.6467	46.7090	-	74.0000	54.0000	-	-14.3533	-7.2910	-

Remarks: Pass Result	Marginal Result	Fail Result

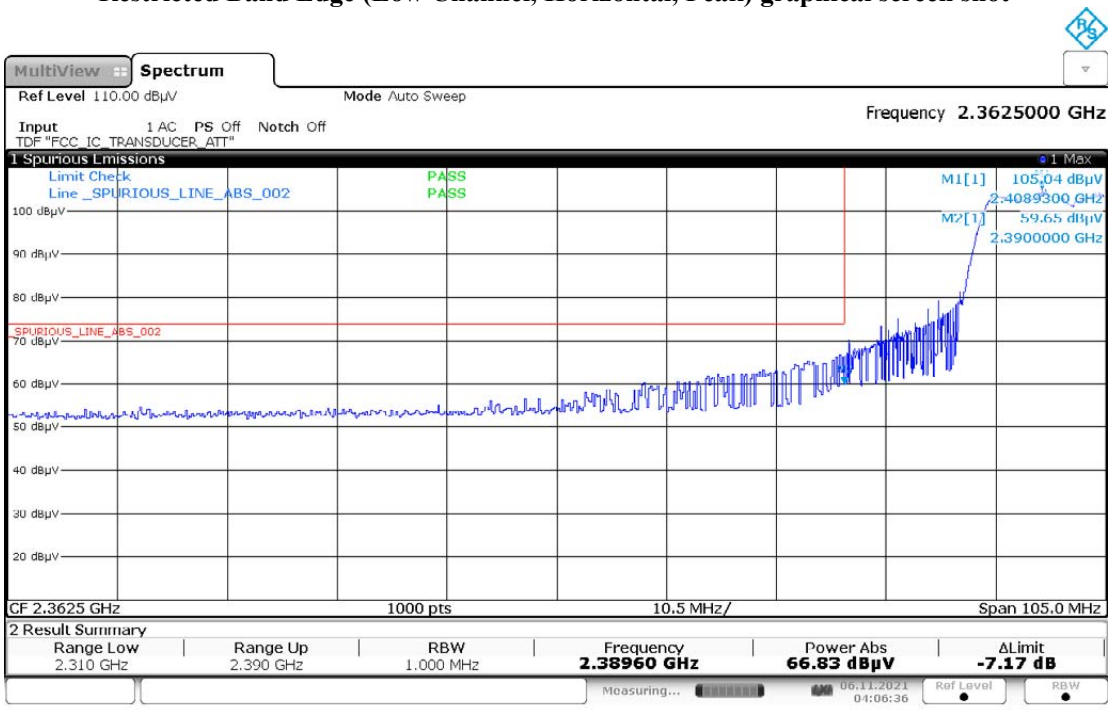
Temperature (degC): 24.1 **Humidity (%): 69.7**
Test Performed by: Qawiman&Nazrin **Test Date: Sat, 6 Nov, 2021**
System MU: 5.84 dB

Restricted Band Edge (Low Channel, Vertical, Peak) graphical screen shot



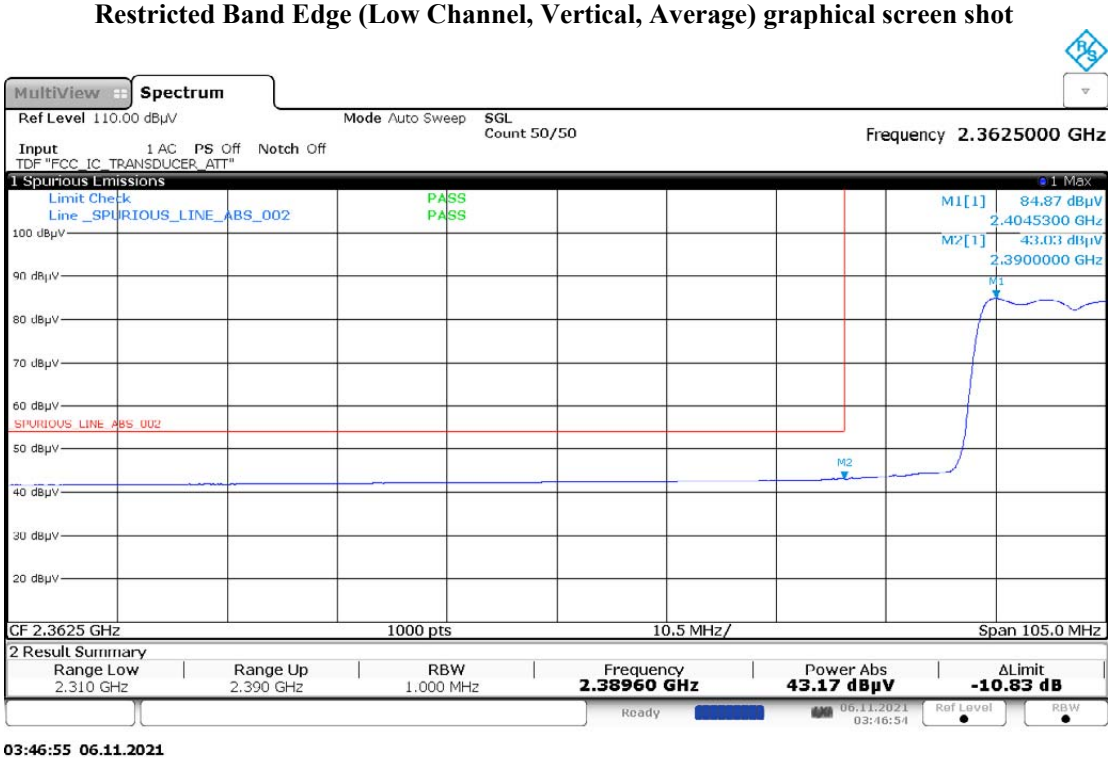
04:02:53 06.11.2021

Restricted Band Edge (Low Channel, Horizontal, Peak) graphical screen shot



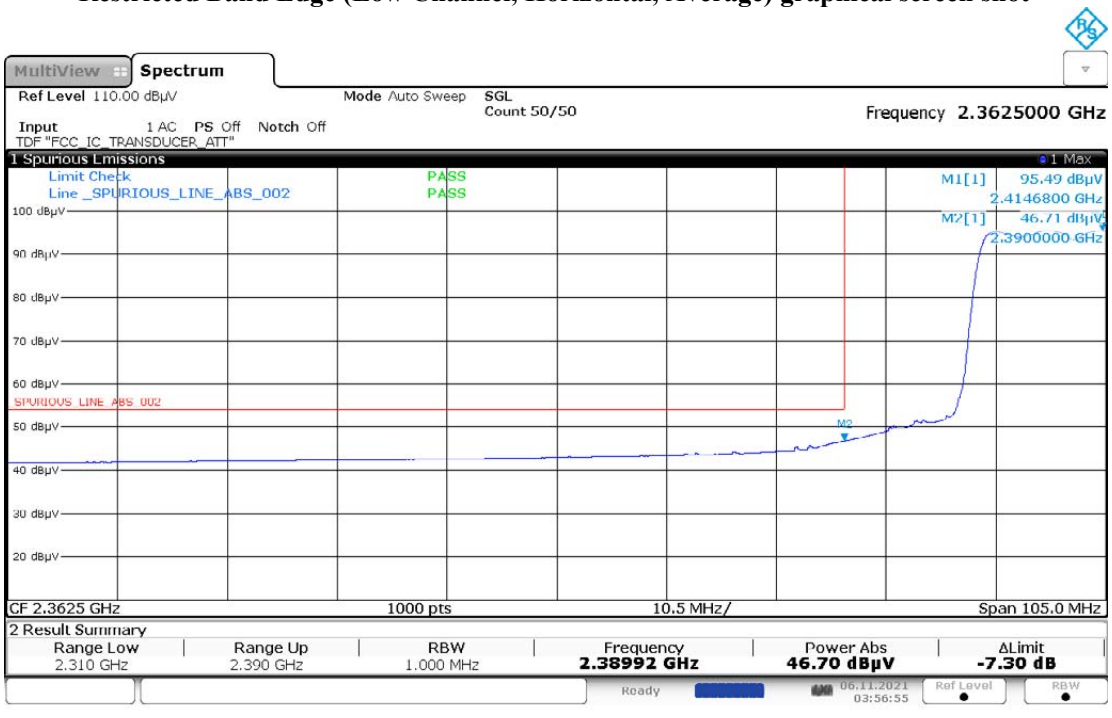
04:06:37 06.11.2021

Restricted Band Edge (Low Channel, Vertical, Average) graphical screen shot



03:46:55 06.11.2021

Restricted Band Edge (Low Channel, Horizontal, Average) graphical screen shot



03:56:56 06.11.2021

Test: WIFI SAC Restricted Band Edge
Model Number: H98KGH9PW7BN S/N: 481TXV2602 EMC SR ID#: 05897-EMC-00112
Battery: PMNN4494A Accessory: NAR6593A
Test Channel: High Test Frequency: 2462.0000 MHz Test Standard: ANSI C63.10-2013
Worst Case Plane: X-Plane (802.11n)

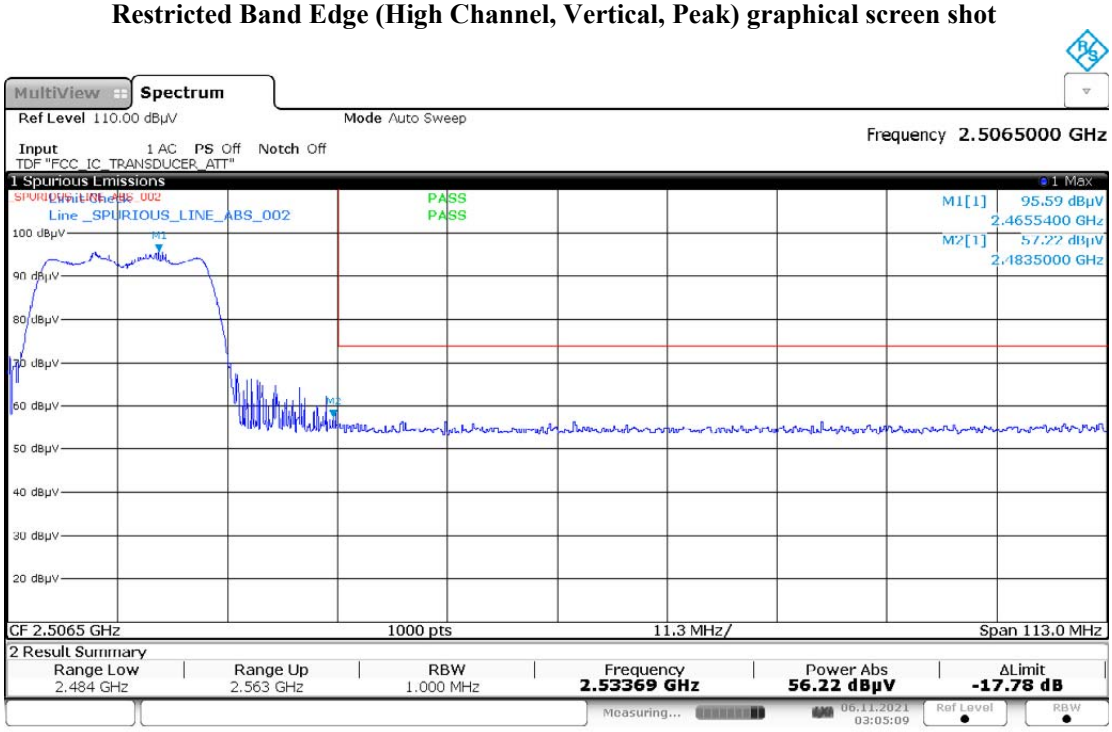
Restricted Band Edge (High Channel) tabular data

Vertical Radiated Emission Result										
Spur Freq (MHz)	Spur level QPK (dBµV/m)	Spur level PK (dBµV/m)	Spur level AV (dBµV/m)	Limit QPK (dBµV/m)	Limit PK (dBµV/m)	Limit AV (dBµV/m)	Margin QPK (dBµV/m)	Margin PK (dBµV/m)	Margin AV (dBµV/m)	Carrier PK Power (dBµV/m)
2483.5000	-	57.2206	43.5259	-	74.0000	54.0000	-	-16.7794	-10.4741	-
Horizontal Radiated Emission Result										
2483.5000	-	61.9026	45.8975	-	74.0000	54.0000	-	-12.0974	-8.1025	-

Remarks: Pass Result	Marginal Result	Fail Result

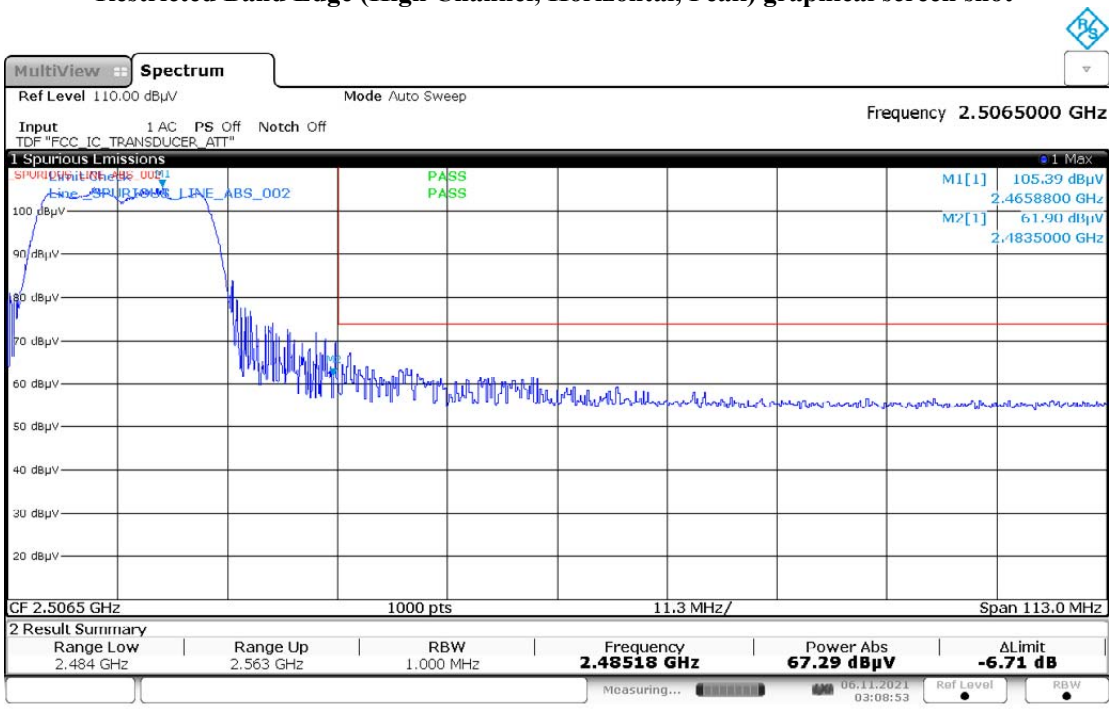
Temperature (degC): 24.1 **Humidity (%): 69.7**
Test Performed by: Qawiman&Nazrin **Test Date: Sat, 6 Nov, 2021**
System MU: 5.84 dB

Restricted Band Edge (High Channel, Vertical, Peak) graphical screen shot



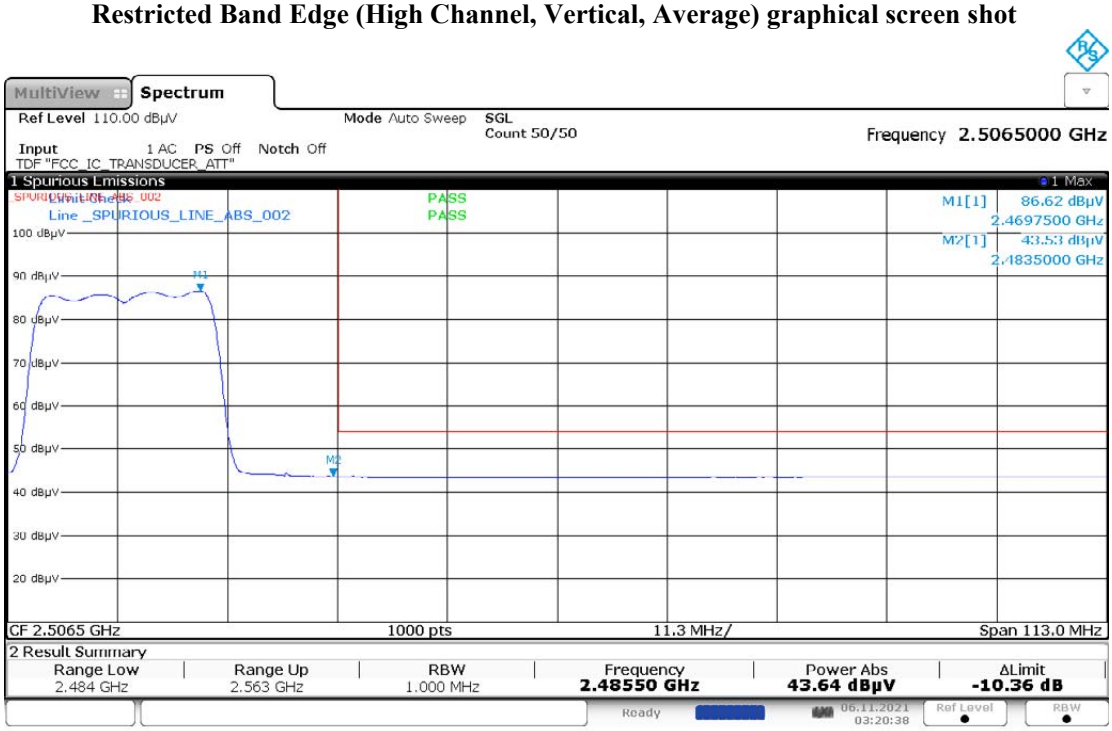
03:05:10 06.11.2021

Restricted Band Edge (High Channel, Horizontal, Peak) graphical screen shot



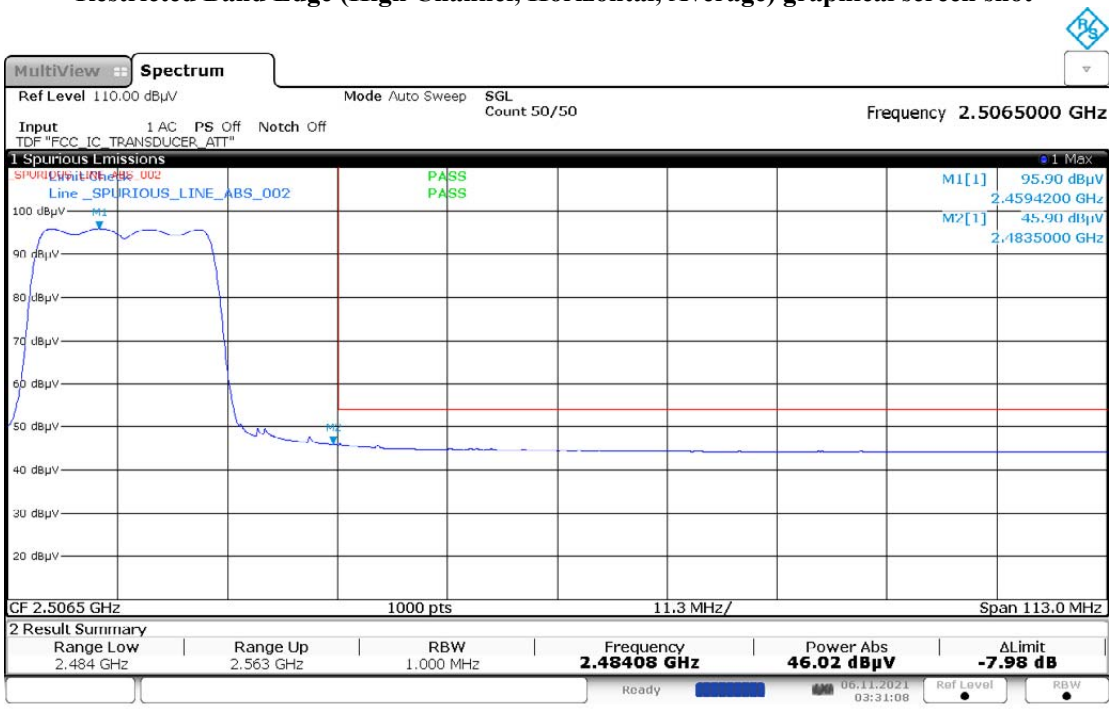
03:08:54 06.11.2021

Restricted Band Edge (High Channel, Vertical, Average) graphical screen shot



03:20:39 06.11.2021

Restricted Band Edge (High Channel, Horizontal, Average) graphical screen shot



03:31:08 06.11.2021

Test: WIFI SAC Transmitter Radiated Emission
Model#: H98KGH9PW7BN S/N: 481TXV2602 EMC SR ID#: 05897-EMC-00112
Battery: PMNN4494A Accessory: NAR6593A
Test Channel: Low Test Frequency: 2412.0000 MHz Test Standard: ANSI C63.10-2013
Worst Case Plane: X-Plane (802.11b)

Radiated Emission (Low Channel) tabular data

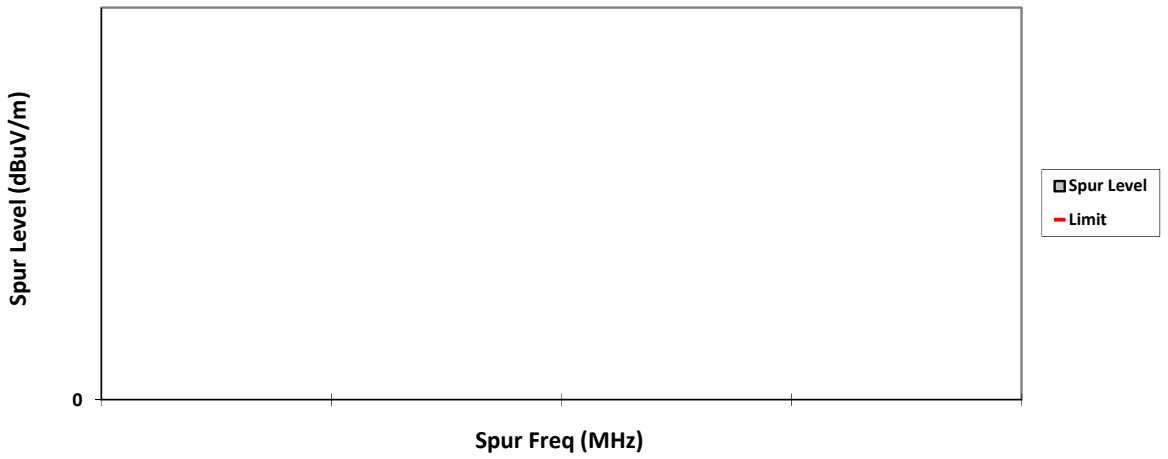
Vertical Radiated Emission Result										
Spur Freq (MHz)	Spur level QPK (dBµV/m)	Spur level PK (dBµV/m)	Spur level AV (dBµV/m)	Limit QPK (dBµV/m)	Limit PK (dBµV/m)	Limit AV (dBµV/m)	Margin QPK (dBµV/m)	Margin PK (dBµV/m)	Margin AV (dBµV/m)	Carrier PK Power (dBµV/m)
4824	-	48.2393**	-	-	74.0	-	-	25.7607	-	-
7236	-	54.3599**	-	-	75.5620	-	-	21.2021	-	105.5620
9648	-	56.4399**	-	-	75.5620	-	-	19.1221	-	105.5620
12060	-	60.3240**	49.3412**	-	74.0	54.0	-	13.6760	4.6588	-
14472	-	62.3057**	51.2561**	-	74.0	54.0	-	11.6943	2.7439	-
16884	-	65.0585**	-	-	75.5620	-	-	10.5035	-	105.5620
19296	-	33.6579**	-	-	74.0	-	-	40.3421	-	-
21708	-	36.3017**	-	-	75.5620	-	-	39.2603	-	105.5620
24120	-	37.8700**	-	-	75.5620	-	-	37.6920	-	105.5620
Horizontal Radiated Emission Result										
4824	-	49.5818**	-	-	74.0	-	-	24.4182	-	-
7236	-	54.5605**	-	-	75.5620	-	-	21.0015	-	105.5620
9648	-	56.0325**	-	-	75.5620	-	-	19.5295	-	105.5620
12060	-	60.3630**	49.3421**	-	74.0	54.0	-	13.6370	4.6579	-
14472	-	63.9661**	51.2580**	-	74.0	54.0	-	10.0339	2.7420	-
16884	-	63.7042**	-	-	75.5620	-	-	11.8578	-	105.5620
19296	-	33.8278**	-	-	74.0	-	-	40.1722	-	-
21708	-	35.3323**	-	-	75.5620	-	-	40.2297	-	105.5620
24120	-	36.4637**	-	-	75.5620	-	-	39.0983	-	105.5620

Remarks: Pass Result	Marginal Result	Fail Result

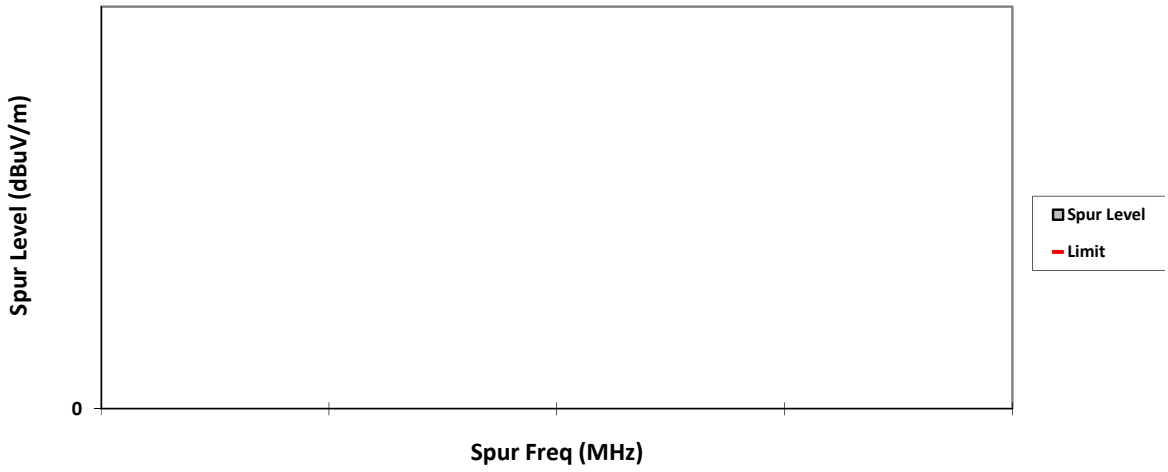
Temperature (degC): 24.1 **Humidity (%): 69.7**
Test Performed by: Qawiman&Nazrin **Test Date: Sun, 7 Nov, 2021**
System MU: 5.88 dB (30-1000MHz), 5.84 dB (1000-18000MHz), 6.02 dB (18000MHz-40000MHz)

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.
***Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported.**

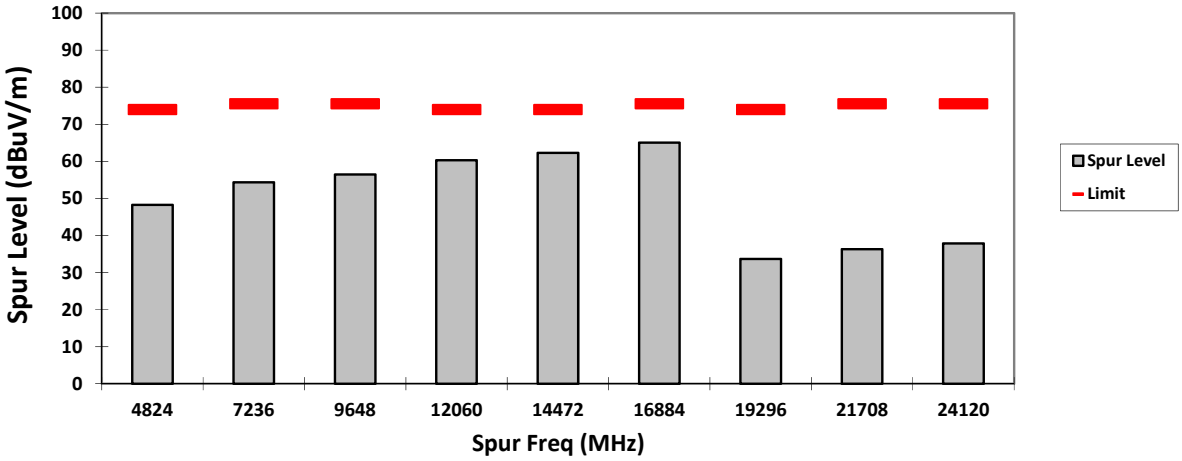
VERTICAL, QPK



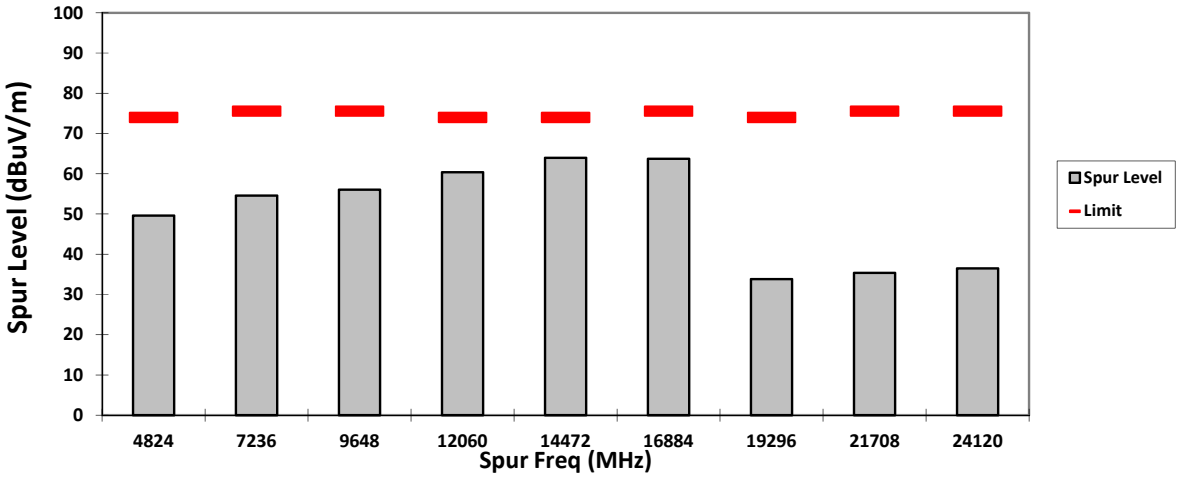
HORIZONTAL, QPK



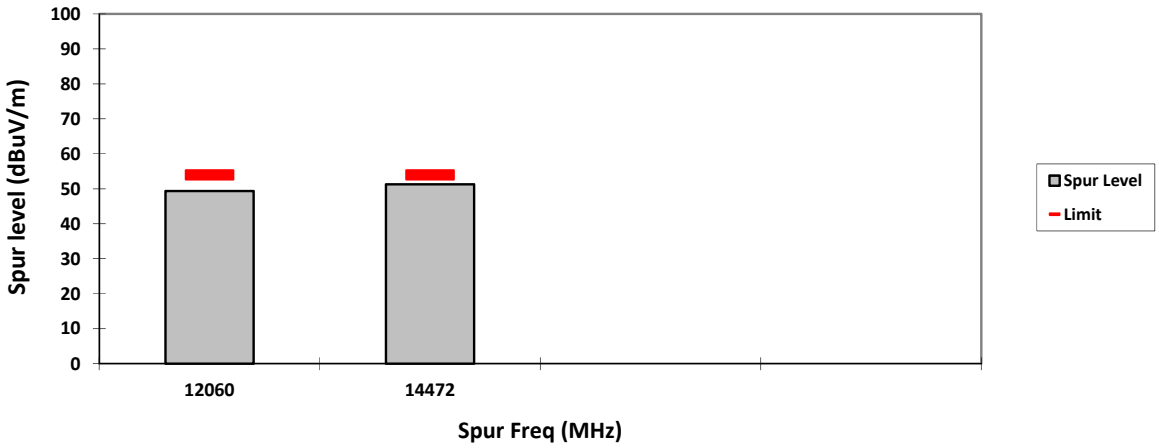
VERTICAL, PK



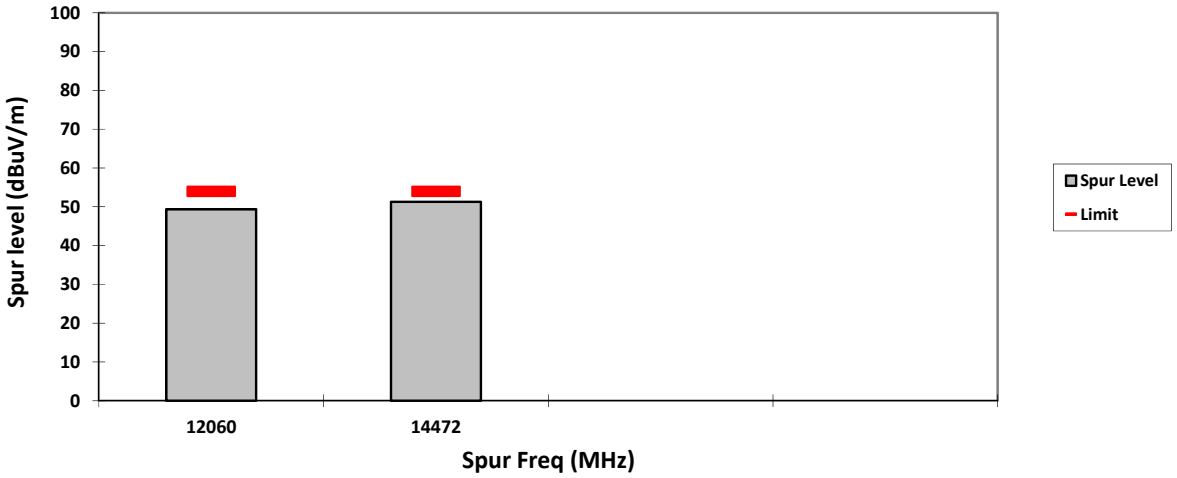
HORIZONTAL, PK



VERTICAL, AV



HORIZONTAL, AV



Test: WIFI SAC Transmitter Radiated Emission
Model#: H98KGH9PW7BN S/N: 481TXV2602 EMC SR ID#: 05897-EMC-00112
Battery: PMNN4494A Accessory: NAR6593A
Test Channel: Mid Test Frequency: 2437.0000 MHz Test Standard: ANSI C63.10-2013
Worst Case Plane: X-Plane (802.11b)

Radiated Emission (Mid Channel) tabular data

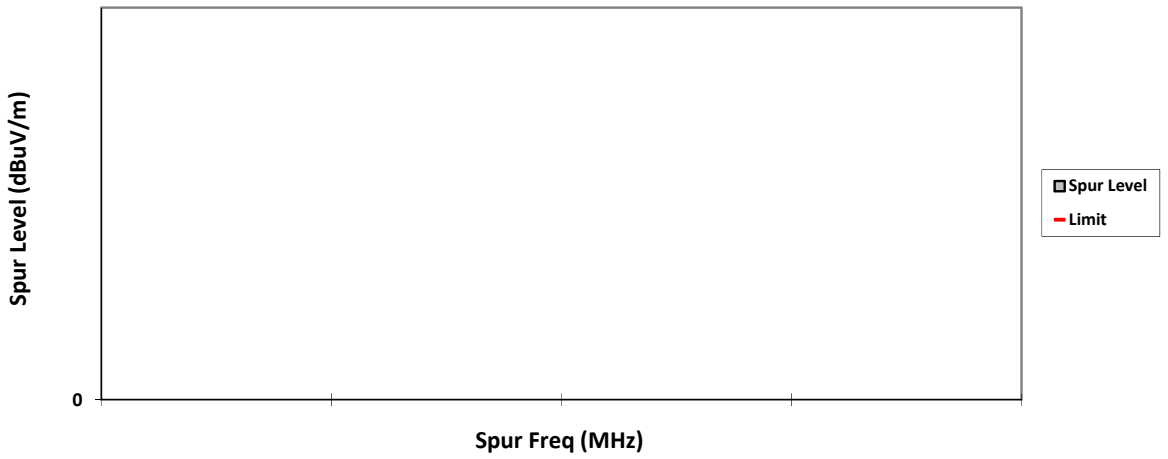
Vertical Radiated Emission Result										
Spur Freq (MHz)	Spur level QPK (dBµV/m)	Spur level PK (dBµV/m)	Spur level AV (dBµV/m)	Limit QPK (dBµV/m)	Limit PK (dBµV/m)	Limit AV (dBµV/m)	Margin QPK (dBµV/m)	Margin PK (dBµV/m)	Margin AV (dBµV/m)	Carrier PK Power (dBµV/m)
4874	-	48.4443**	-	-	74.0	-	-	25.5557	-	-
7311	-	54.4037**	43.0237**	-	74.0	54.0	-	19.5963	10.9763	-
9748	-	56.5653**	-	-	75.5620	-	-	18.9967	-	105.5620
12185	-	60.6201**	49.0665**	-	74.0	54.0	-	13.3799	4.9335	-
14622	-	61.8668**	-	-	75.5620	-	-	13.6952	-	105.5620
17059	-	65.2709**	-	-	75.5620	-	-	10.2911	-	105.5620
19496	-	32.0010**	-	-	74.0	-	-	41.9990	-	-
21933	-	38.4797**	-	-	75.5620	-	-	37.0823	-	105.5620
24370	-	38.7551**	-	-	75.5620	-	-	36.8069	-	105.5620
Horizontal Radiated Emission Result										
4874	-	50.7516**	-	-	74.0	-	-	23.2484	-	-
7311	-	54.2686**	43.0243**	-	74.0	54.0	-	19.7314	10.9757	-
9748	-	57.2505**	-	-	75.5620	-	-	18.3115	-	105.5620
12185	-	60.6082**	49.0665**	-	74.0	54.0	-	13.3918	4.9335	-
14622	-	62.4266**	-	-	75.5620	-	-	13.1354	-	105.5620
17059	-	64.2545**	-	-	75.5620	-	-	11.3075	-	105.5620
19496	-	31.9914**	-	-	74.0	-	-	42.0086	-	-
21933	-	39.9236**	-	-	75.5620	-	-	35.6384	-	105.5620
24370	-	40.7219**	-	-	75.5620	-	-	34.8401	-	105.5620

Remarks: Pass Result	Marginal Result	Fail Result

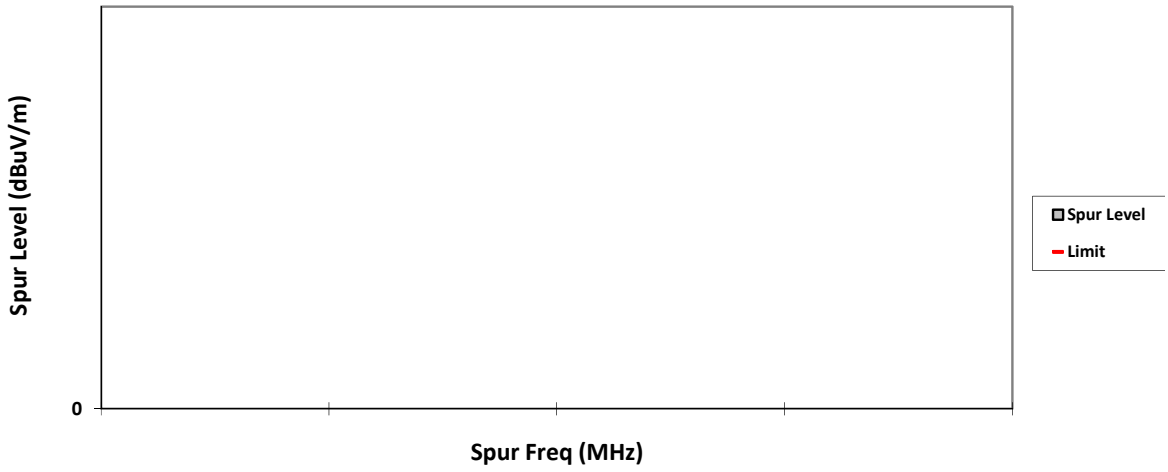
Temperature (degC): 24.1 **Humidity (%): 69.7**
Test Performed by: Qawiman&Nazrin **Test Date: Sun, 7 Nov, 2021**
System MU: 5.88 dB (30-1000MHz), 5.84 dB (1000-18000MHz), 6.02 dB (18000MHz-40000MHz)

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.
***Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported.**

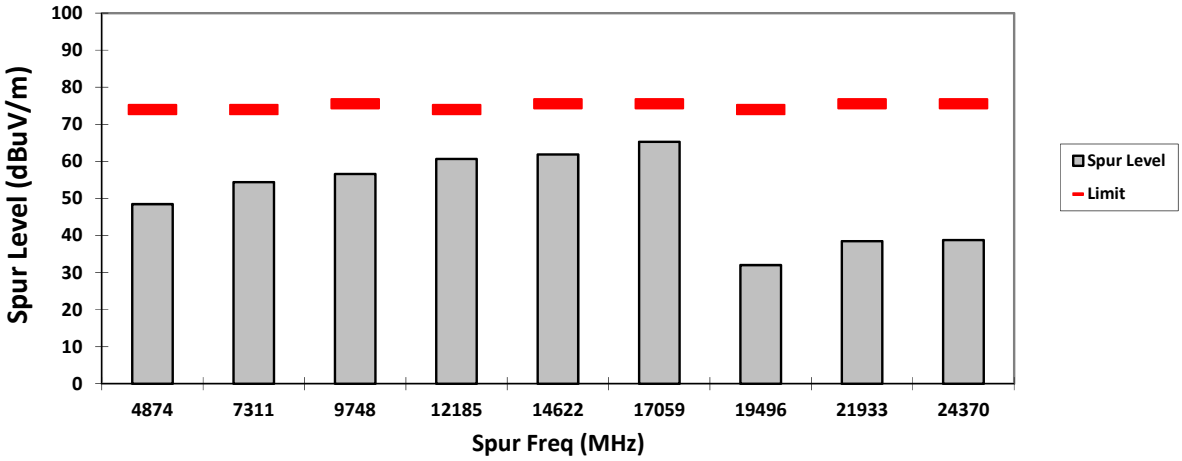
VERTICAL, QPK



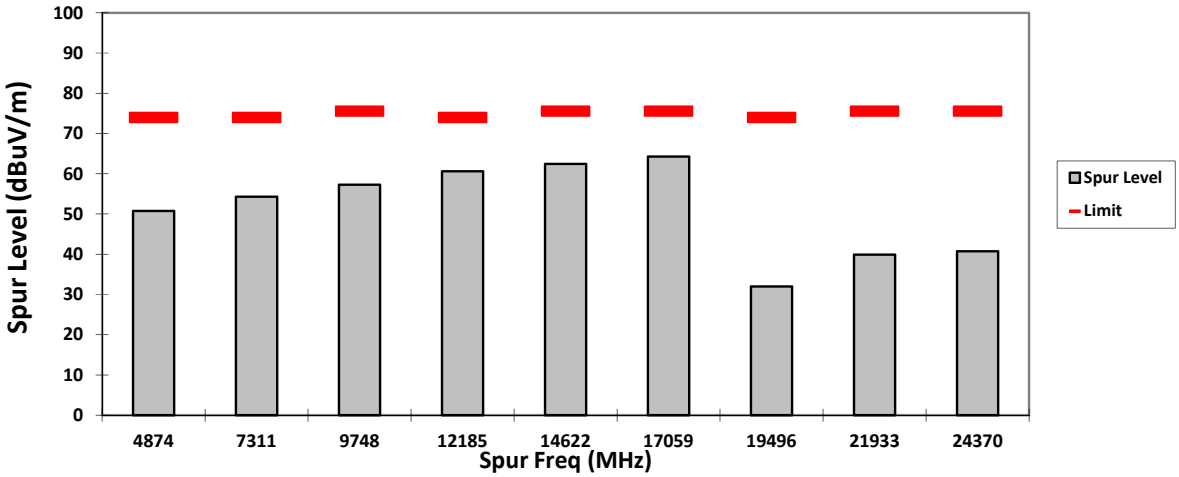
HORIZONTAL, QPK



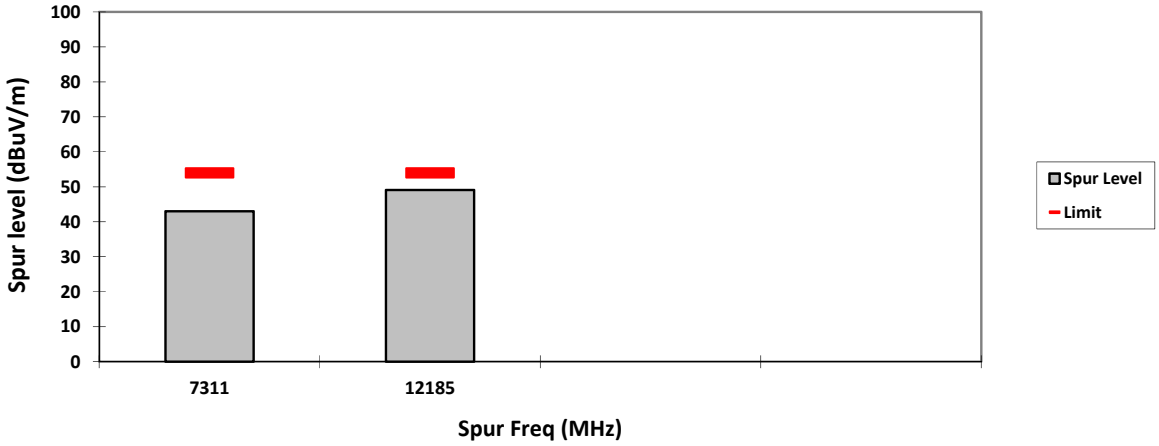
VERTICAL, PK



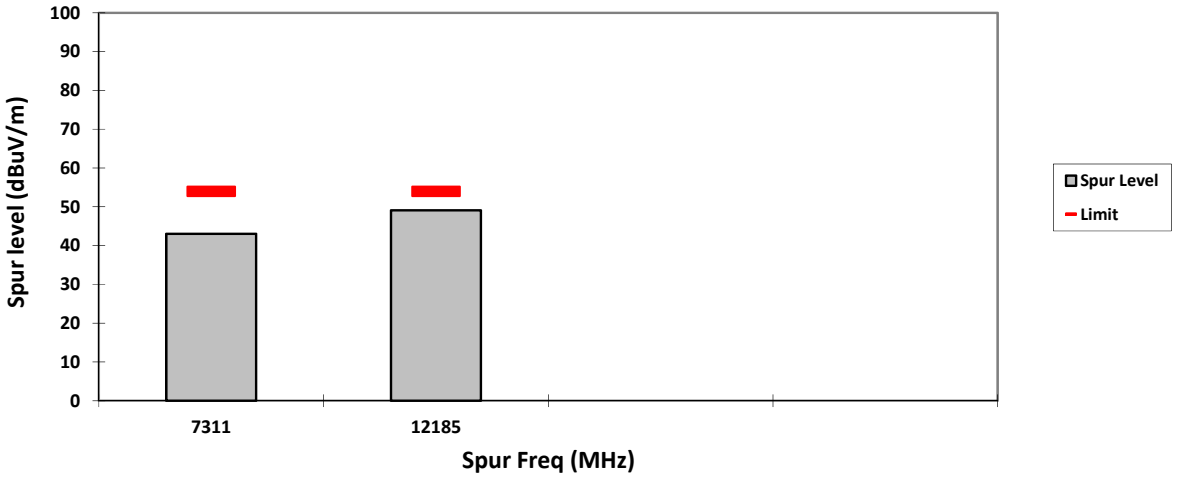
HORIZONTAL, PK



VERTICAL, AV



HORIZONTAL, AV



Test: WIFI SAC Transmitter Radiated Emission
Model#: H98KGH9PW7BN S/N: 481TXV2602 EMC SR ID#: 05897-EMC-00112
Battery: PMNN4494A Accessory: NAR6593A
Test Channel: High Test Frequency: 2462.0000 MHz Test Standard: ANSI C63.10-2013
Worst Case Plane: X-Plane (802.11b)

Radiated Emission (High Channel) tabular data

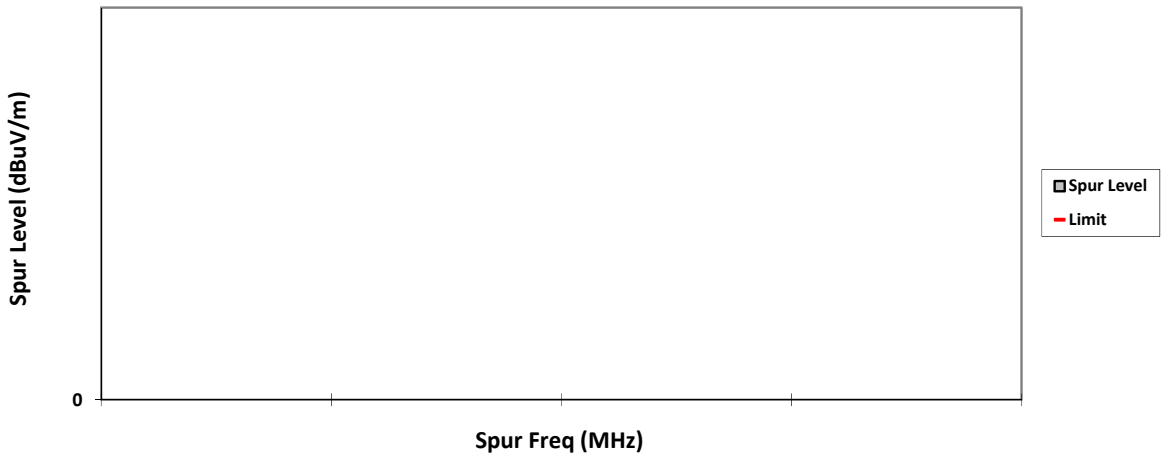
Vertical Radiated Emission Result										
Spur Freq (MHz)	Spur level QPK (dBµV/m)	Spur level PK (dBµV/m)	Spur level AV (dBµV/m)	Limit QPK (dBµV/m)	Limit PK (dBµV/m)	Limit AV (dBµV/m)	Margin QPK (dBµV/m)	Margin PK (dBµV/m)	Margin AV (dBµV/m)	Carrier PK Power (dBµV/m)
4924	-	48.8693**	-	-	74.0	-	-	25.1307	-	-
7386	-	55.6229**	43.8186**	-	74.0	54.0	-	18.3771	10.1814	-
9848	-	55.4832**	-	-	75.5620	-	-	20.0788	-	105.5620
12310	-	60.7636**	49.2384**	-	74.0	54.0	-	13.2364	4.7616	-
14772	-	61.1334**	-	-	75.5620	-	-	14.4286	-	105.5620
17234	-	63.9564**	-	-	75.5620	-	-	11.6056	-	105.5620
19696	-	33.1714**	-	-	74.0	-	-	40.8286	-	-
22158	-	37.3975**	-	-	74.0	-	-	36.6025	-	-
24620	-	39.4264**	-	-	75.5620	-	-	36.1356	-	105.5620
Horizontal Radiated Emission Result										
4924	-	50.9585**	-	-	74.0	-	-	23.0415	-	-
7386	-	54.9886**	43.8285**	-	74.0	54.0	-	19.0114	10.1715	-
9848	-	56.7472**	-	-	75.5620	-	-	18.8148	-	105.5620
12310	-	59.9497**	48.9996**	-	74.0	54.0	-	14.0503	5.0004	-
14772	-	63.3983**	-	-	75.5620	-	-	12.1637	-	105.5620
17234	-	63.7776**	-	-	75.5620	-	-	11.7844	-	105.5620
19696	-	34.1712**	-	-	74.0	-	-	39.8288	-	-
22158	-	37.7000**	-	-	74.0	-	-	36.3000	-	-
24620	-	39.6458**	-	-	75.5620	-	-	35.9162	-	105.5620

Remarks: Pass Result	Marginal Result	Fail Result

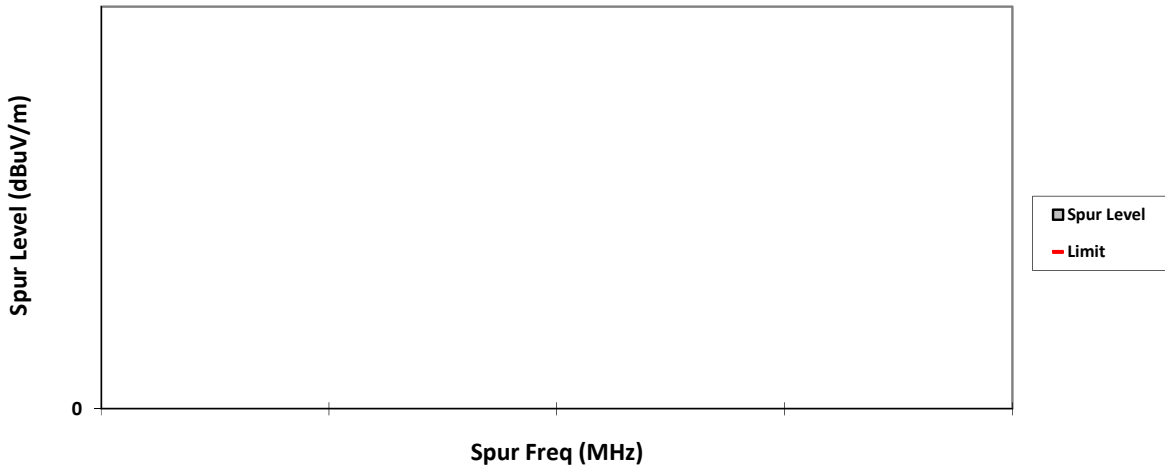
Temperature (degC): 24.1 Humidity (%): 69.7
Test Performed by: Qawiman&Nazrin Test Date: Sun, 7 Nov, 2021
System MU: 5.88 dB (30-1000MHz), 5.84 dB (1000-18000MHz), 6.02 dB (18000MHz-40000MHz)

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.
***Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported.**

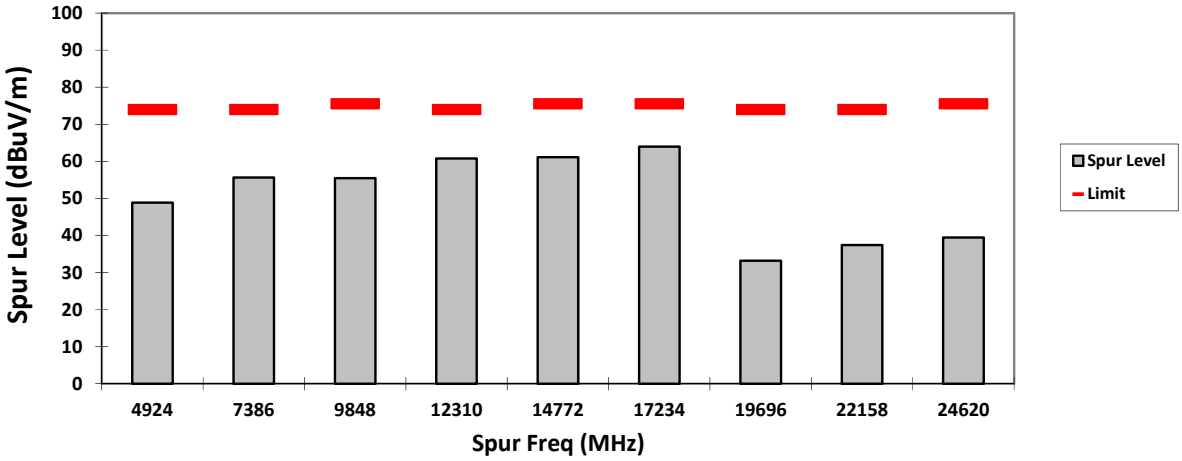
VERTICAL, QPK



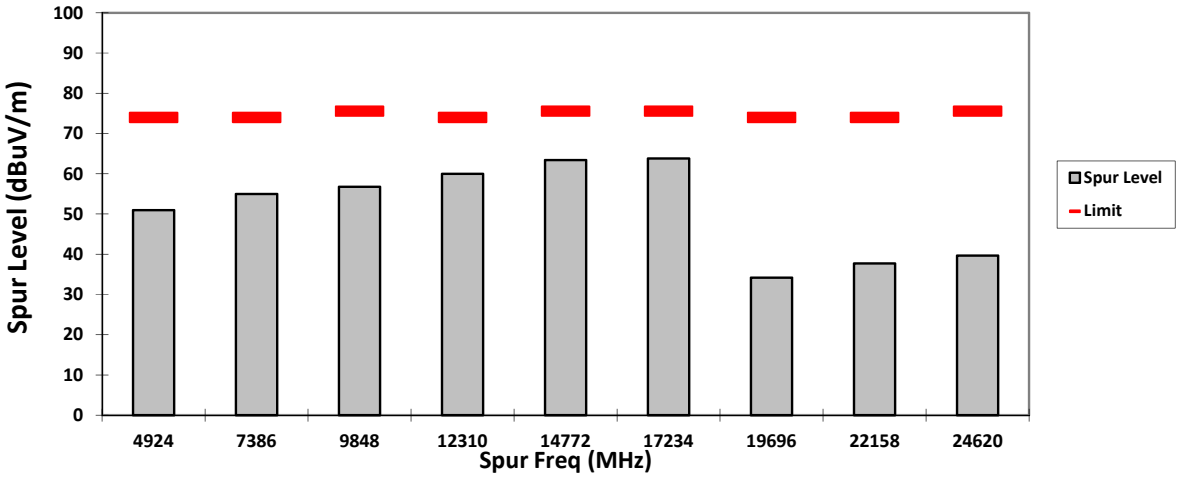
HORIZONTAL, QPK



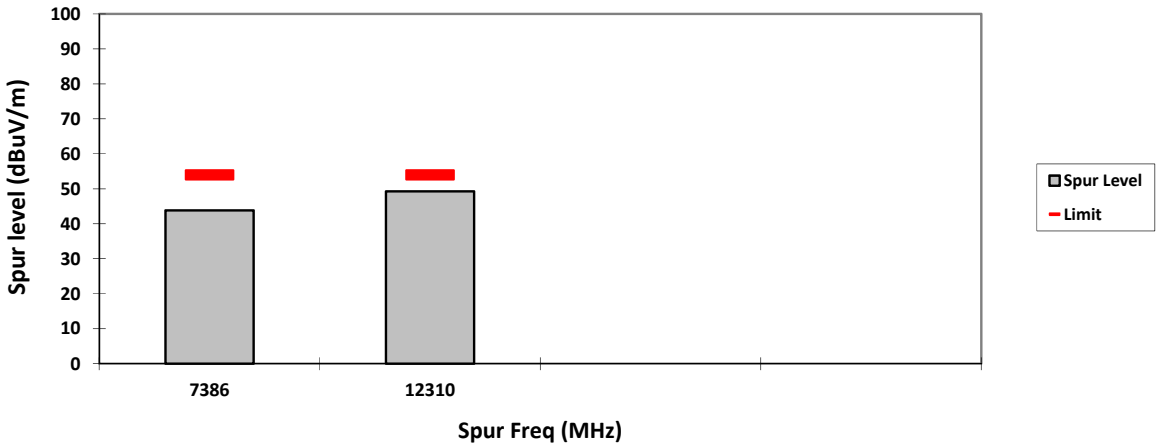
VERTICAL, PK



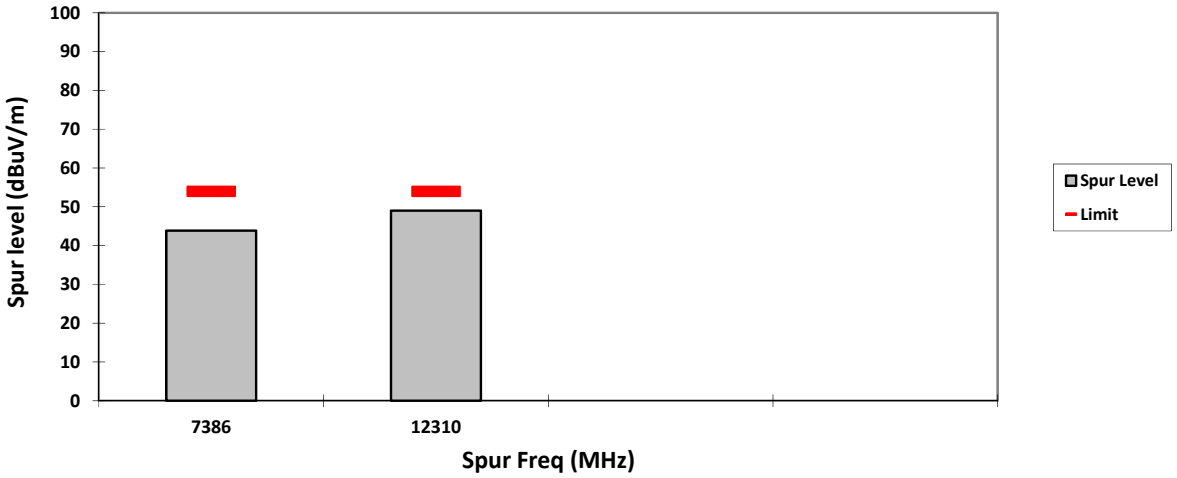
HORIZONTAL, PK



VERTICAL, AV



HORIZONTAL, AV



Test: WIFI SAC Transmitter Radiated Emission
Model#: H98KGH9PW7BN S/N: 481TXV2602 EMC SR ID#: 05897-EMC-00112
Battery: PMNN4494A Accessory: NAR6593A
Test Channel: Low Test Frequency: 2412.0000 MHz Test Standard: ANSI C63.10-2013
Worst Case Plane: X-Plane (802.11g)

Radiated Emission (Low Channel) tabular data

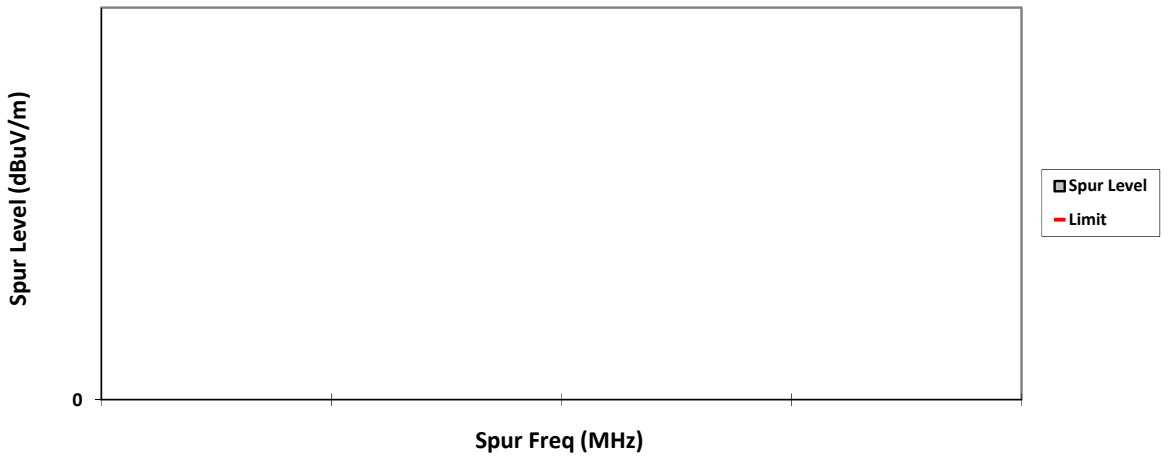
Vertical Radiated Emission Result										
Spur Freq (MHz)	Spur level QPK (dBµV/m)	Spur level PK (dBµV/m)	Spur level AV (dBµV/m)	Limit QPK (dBµV/m)	Limit PK (dBµV/m)	Limit AV (dBµV/m)	Margin QPK (dBµV/m)	Margin PK (dBµV/m)	Margin AV (dBµV/m)	Carrier PK Power (dBµV/m)
4824	-	49.2718**	-	-	74.0	-	-	24.7282	-	-
7236	-	54.6126**	-	-	75.5620	-	-	20.9494	-	105.5620
9648	-	56.2308**	-	-	75.5620	-	-	19.3312	-	105.5620
12060	-	61.2676**	49.3389**	-	74.0	54.0	-	12.7324	4.6611	-
14472	-	62.5277**	51.2580**	-	74.0	54.0	-	11.4723	2.7420	-
16884	-	65.7468**	-	-	75.5620	-	-	9.8152	-	105.5620
19296	-	33.2509**	-	-	74.0	-	-	40.7491	-	-
21708	-	37.0586**	-	-	75.5620	-	-	38.5034	-	105.5620
24120	-	36.4542**	-	-	75.5620	-	-	39.1078	-	105.5620
Horizontal Radiated Emission Result										
4824	-	49.2723**	-	-	74.0	-	-	24.7277	-	-
7236	-	52.1898**	-	-	75.5620	-	-	23.3722	-	105.5620
9648	-	55.3290**	-	-	75.5620	-	-	20.2330	-	105.5620
12060	-	60.3578**	49.3406**	-	74.0	54.0	-	13.6422	4.6594	-
14472	-	62.7007**	51.2590**	-	74.0	54.0	-	11.2993	2.7410	-
16884	-	64.4522**	-	-	75.5620	-	-	11.1098	-	105.5620
19296	-	33.0944**	-	-	74.0	-	-	40.9056	-	-
21708	-	36.2821**	-	-	75.5620	-	-	39.2799	-	105.5620
24120	-	35.6891**	-	-	75.5620	-	-	39.8729	-	105.5620

Remarks: Pass Result	Marginal Result	Fail Result

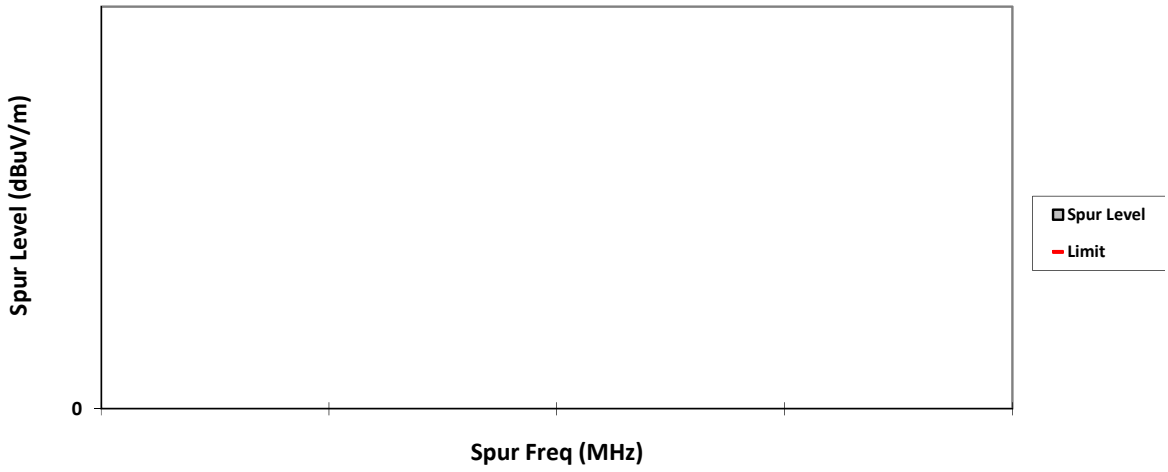
Temperature (degC): 24.1 **Humidity (%): 69.7**
Test Performed by: Qawiman&Nazrin **Test Date: Sun, 7 Nov, 2021**
System MU: 5.88 dB (30-1000MHz), 5.84 dB (1000-18000MHz), 6.02 dB (18000MHz-40000MHz)

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.
***Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported.**

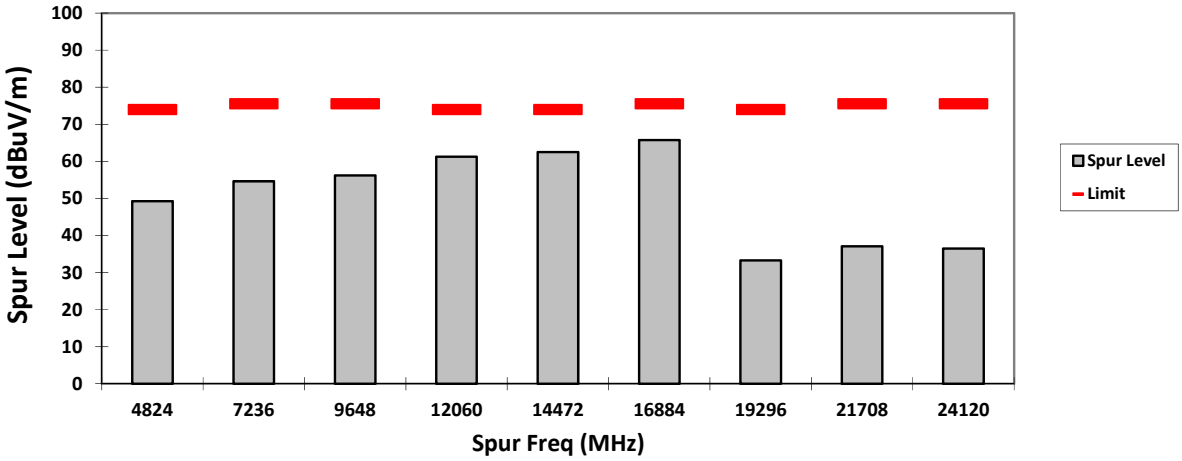
VERTICAL, QPK



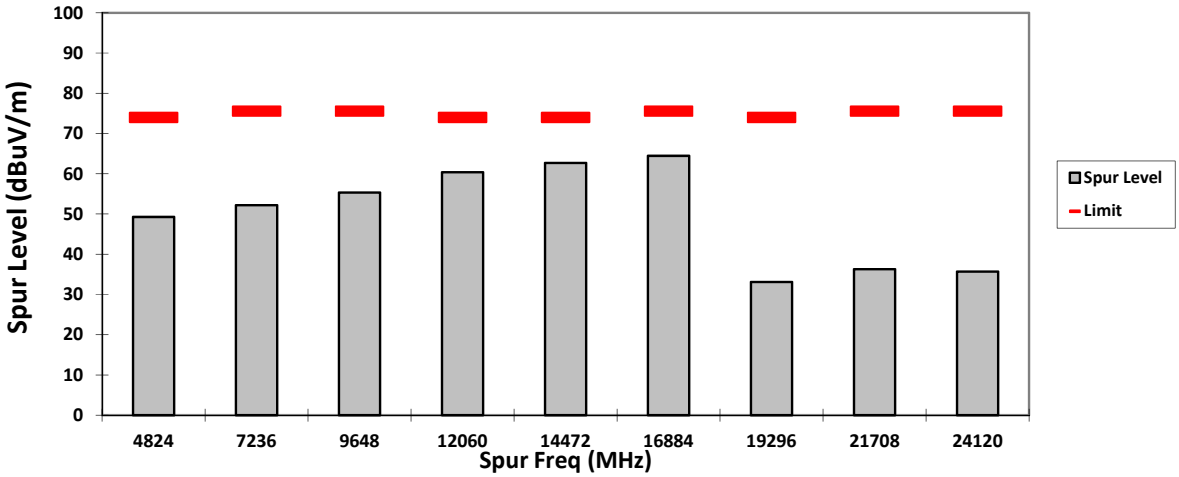
HORIZONTAL, QPK



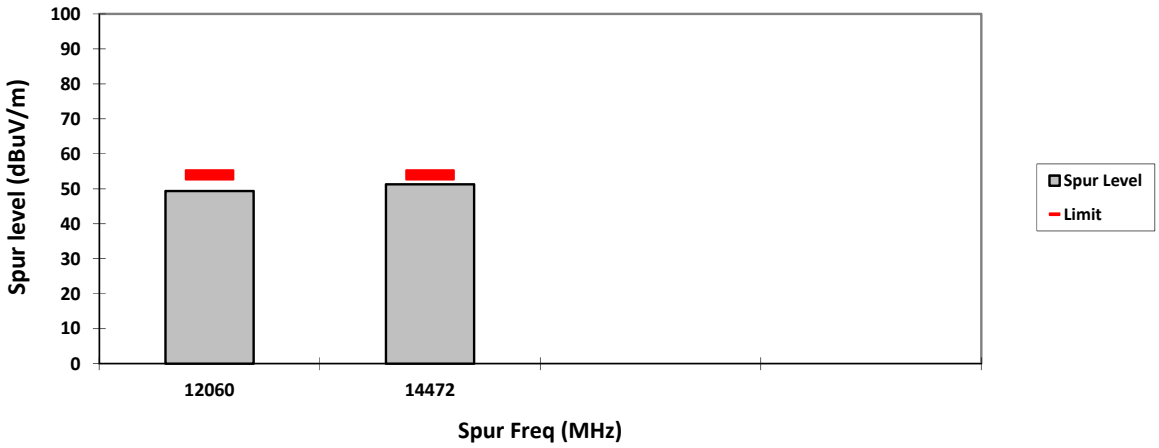
VERTICAL, PK



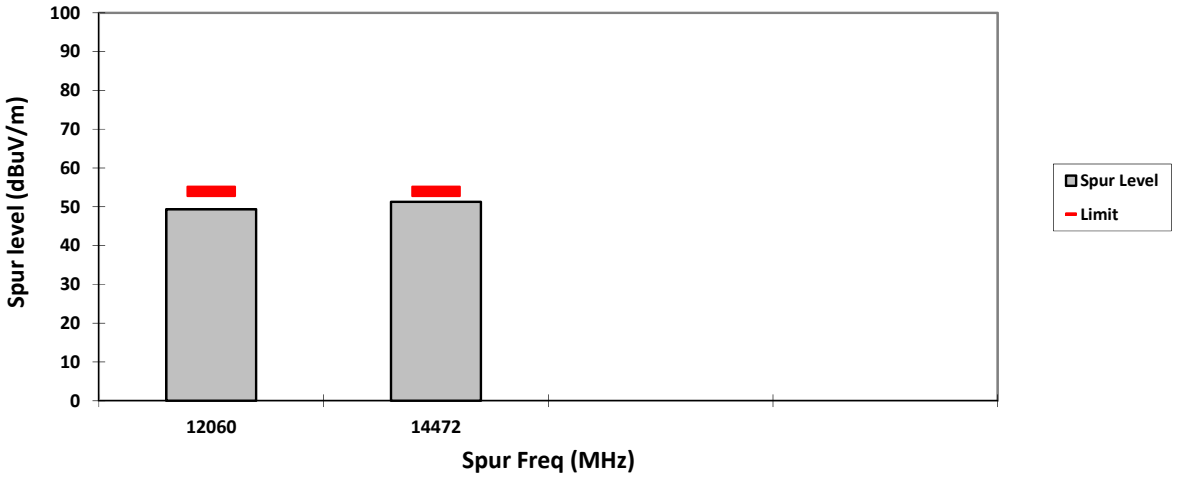
HORIZONTAL, PK



VERTICAL, AV



HORIZONTAL, AV



Test: WIFI SAC Transmitter Radiated Emission
Model#: H98KGH9PW7BN S/N: 481TXV2602 EMC SR ID#: 05897-EMC-00112
Battery: PMNN4494A Accessory: NAR6593A
Test Channel: Mid Test Frequency: 2437.0000 MHz Test Standard: ANSI C63.10-2013
Worst Case Plane: X-Plane (802.11g)

Radiated Emission (Mid Channel) tabular data

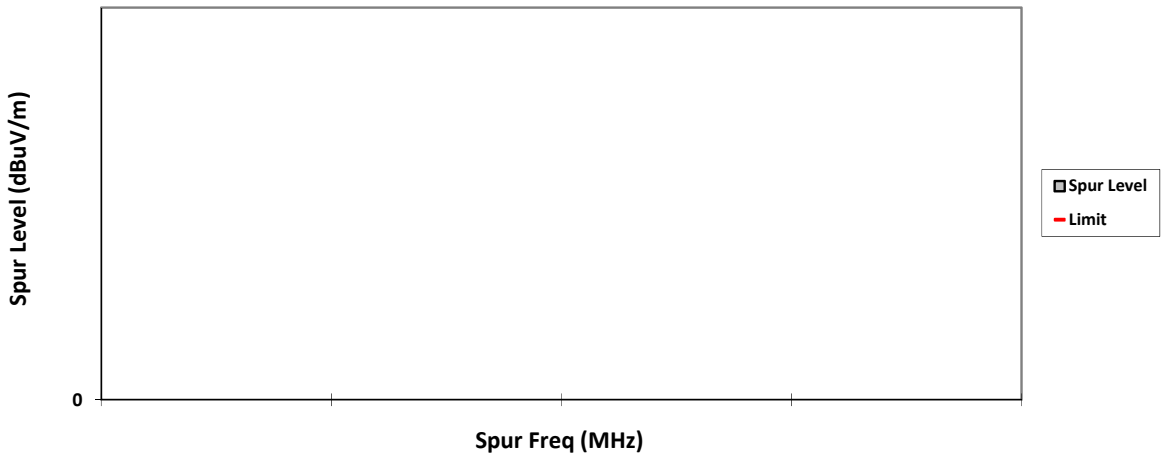
Vertical Radiated Emission Result										
Spur Freq (MHz)	Spur level QPK (dBµV/m)	Spur level PK (dBµV/m)	Spur level AV (dBµV/m)	Limit QPK (dBµV/m)	Limit PK (dBµV/m)	Limit AV (dBµV/m)	Margin QPK (dBµV/m)	Margin PK (dBµV/m)	Margin AV (dBµV/m)	Carrier PK Power (dBµV/m)
4874	-	49.7619**	-	-	74.0	-	-	24.2381	-	-
7311	-	53.8240**	43.0237**	-	74.0	54.0	-	20.1760	10.9763	-
9748	-	55.3255**	-	-	75.5620	-	-	20.2365	-	105.5620
12185	-	60.4133**	49.0664**	-	74.0	54.0	-	13.5867	4.9336	-
14622	-	61.8766**	-	-	75.5620	-	-	13.6854	-	105.5620
17059	-	64.7992**	-	-	75.5620	-	-	10.7628	-	105.5620
19496	-	33.4042**	-	-	74.0	-	-	40.5958	-	-
21933	-	39.4760**	-	-	75.5620	-	-	36.0860	-	105.5620
24370	-	37.4466**	-	-	75.5620	-	-	38.1154	-	105.5620
Horizontal Radiated Emission Result										
4874	-	49.8498**	-	-	74.0	-	-	24.1502	-	-
7311	-	54.9125**	43.0238**	-	74.0	54.0	-	19.0875	10.9762	-
9748	-	55.4361**	-	-	75.5620	-	-	20.1259	-	105.5620
12185	-	60.7423**	49.0664**	-	74.0	54.0	-	13.2577	4.9336	-
14622	-	61.2651**	-	-	75.5620	-	-	14.2969	-	105.5620
17059	-	64.8164**	-	-	75.5620	-	-	10.7456	-	105.5620
19496	-	32.9145**	-	-	74.0	-	-	41.0855	-	-
21933	-	38.8204**	-	-	75.5620	-	-	36.7416	-	105.5620
24370	-	37.8781**	-	-	75.5620	-	-	37.6839	-	105.5620

Remarks: Pass Result	Marginal Result	Fail Result

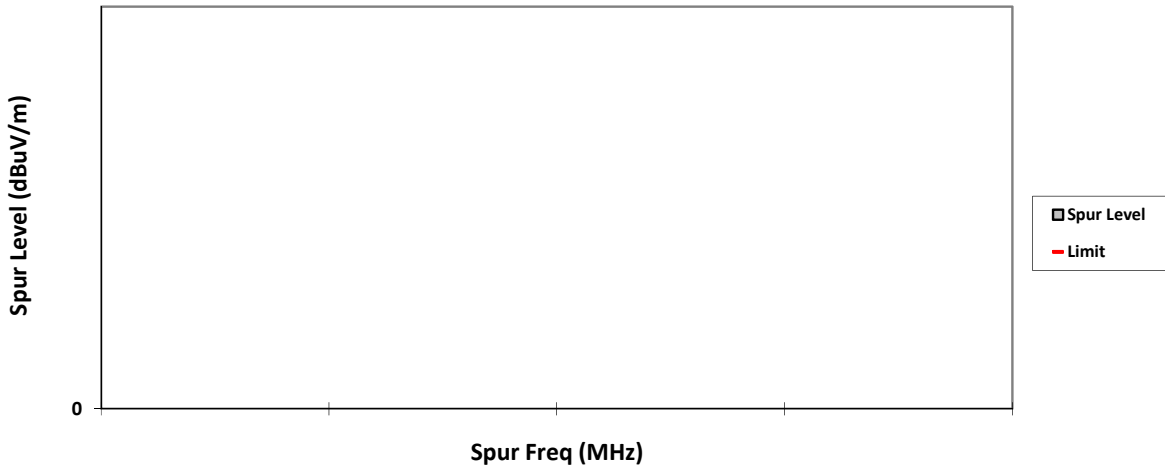
Temperature (degC): 24.1 Humidity (%): 69.7
Test Performed by: Qawiman&Nazrin Test Date: Sun, 7 Nov, 2021
System MU: 5.88 dB (30-1000MHz), 5.84 dB (1000-18000MHz), 6.02 dB (18000MHz-40000MHz)

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.
***Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported.**

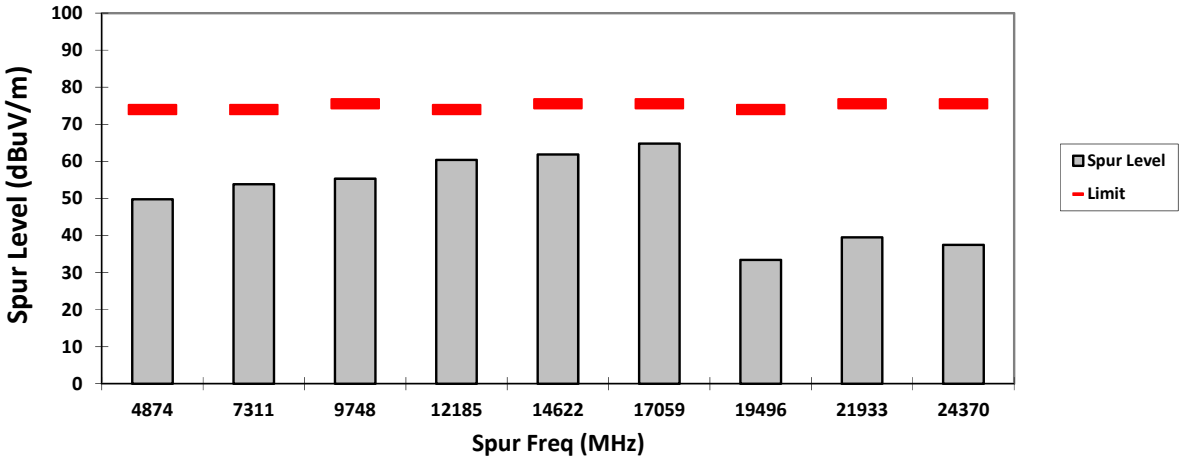
VERTICAL, QPK



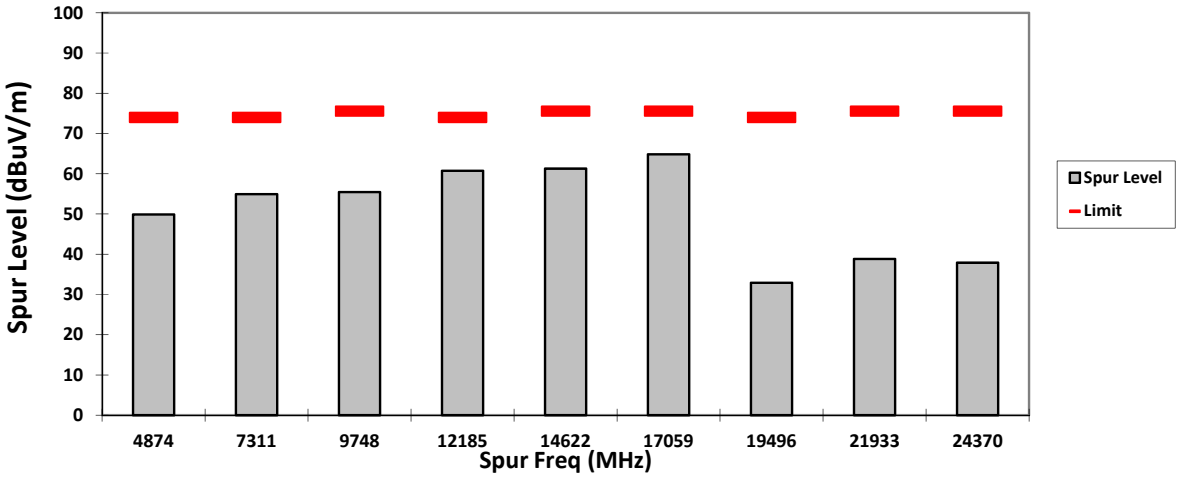
HORIZONTAL, QPK



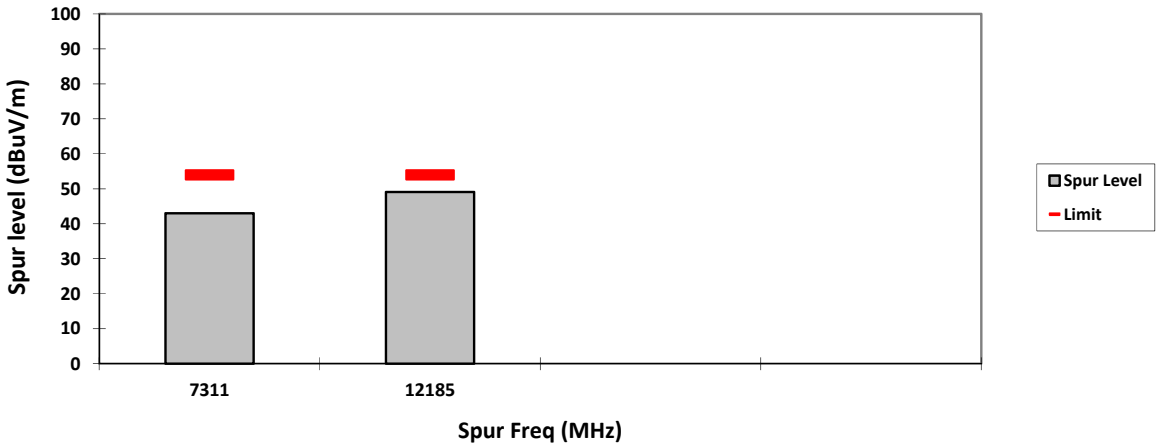
VERTICAL, PK



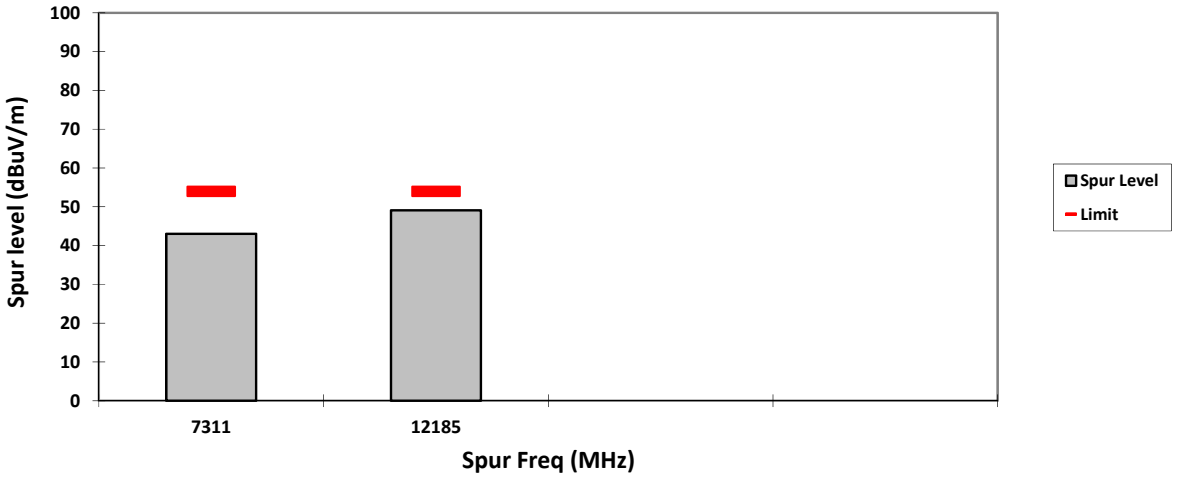
HORIZONTAL, PK



VERTICAL, AV



HORIZONTAL, AV



Test: WIFI SAC Transmitter Radiated Emission
Model#: H98KGH9PW7BN S/N: 481TXV2602 EMC SR ID#: 05897-EMC-00112
Battery: PMNN4494A Accessory: NAR6593A
Test Channel: High Test Frequency: 2462.0000 MHz Test Standard: ANSI C63.10-2013
Worst Case Plane: X-Plane (802.11g)

Radiated Emission (High Channel) tabular data

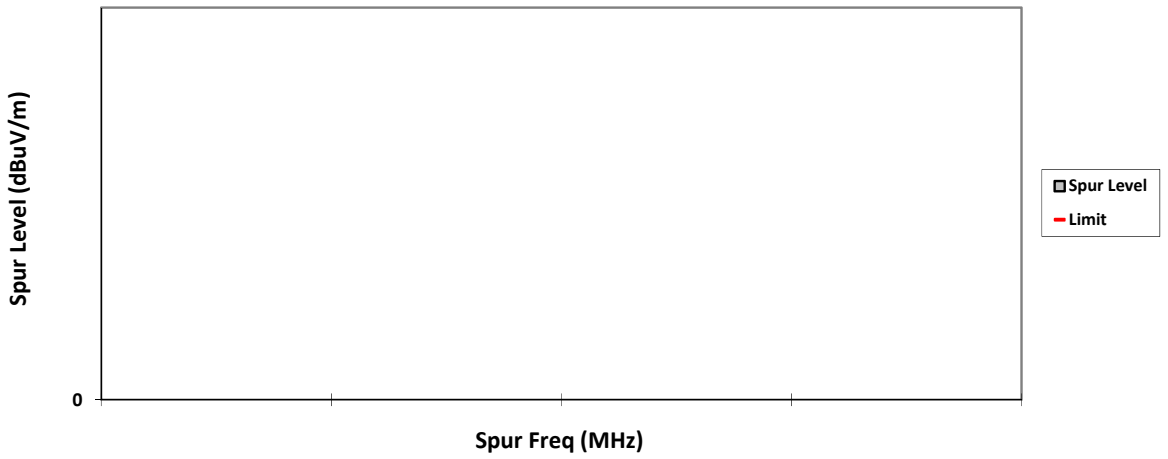
Vertical Radiated Emission Result										
Spur Freq (MHz)	Spur level QPK (dBµV/m)	Spur level PK (dBµV/m)	Spur level AV (dBµV/m)	Limit QPK (dBµV/m)	Limit PK (dBµV/m)	Limit AV (dBµV/m)	Margin QPK (dBµV/m)	Margin PK (dBµV/m)	Margin AV (dBµV/m)	Carrier PK Power (dBµV/m)
4924	-	49.0863**	-	-	74.0	-	-	24.9137	-	-
7386	-	55.5367**	43.8293**	-	74.0	54.0	-	18.4633	10.1707	-
9848	-	56.3014**	-	-	75.5620	-	-	19.2606	-	105.5620
12310	-	60.0993**	48.9995**	-	74.0	54.0	-	13.9007	5.0005	-
14772	-	61.2495**	-	-	75.5620	-	-	14.3125	-	105.5620
17234	-	65.7736**	-	-	75.5620	-	-	9.7884	-	105.5620
19696	-	32.9800**	-	-	74.0	-	-	41.0200	-	-
22158	-	38.6357**	-	-	74.0	-	-	35.3643	-	-
24620	-	40.7386**	-	-	75.5620	-	-		-	105.5620
Horizontal Radiated Emission Result										
4924	-	49.1236**	-	-	74.0	-	-	24.8764	-	-
7386	-	55.0464**	43.8101**	-	74.0	54.0	-	18.9536	10.1899	-
9848	-	57.3356**	-	-	75.5620	-	-	18.2264	-	105.5620
12310	-	60.1724**	48.9995**	-	74.0	54.0	-	13.8276	5.0005	-
14772	-	61.1971**	-	-	75.5620	-	-	14.3649	-	105.5620
17234	-	65.9731**	-	-	75.5620	-	-	9.5889	-	105.5620
19696	-	33.0932**	-	-	74.0	-	-	40.9068	-	-
22158	-	39.1084**	-	-	74.0	-	-	34.8916	-	-
24620	-	38.7652**	-	-	75.5620	-	-		-	105.5620

Remarks: Pass Result	Marginal Result	Fail Result

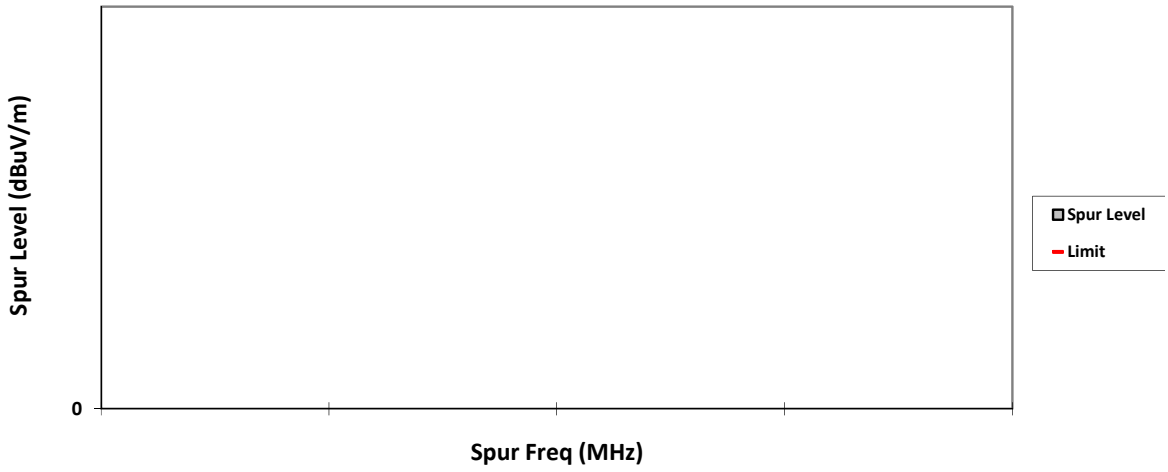
Temperature (degC): 24.1 **Humidity (%): 69.7**
Test Performed by: Qawiman&Nazrin **Test Date: Sun, 7 Nov, 2021**
System MU: 5.88 dB (30-1000MHz), 5.84 dB (1000-18000MHz), 6.02 dB (18000MHz-40000MHz)

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.
***Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported.**

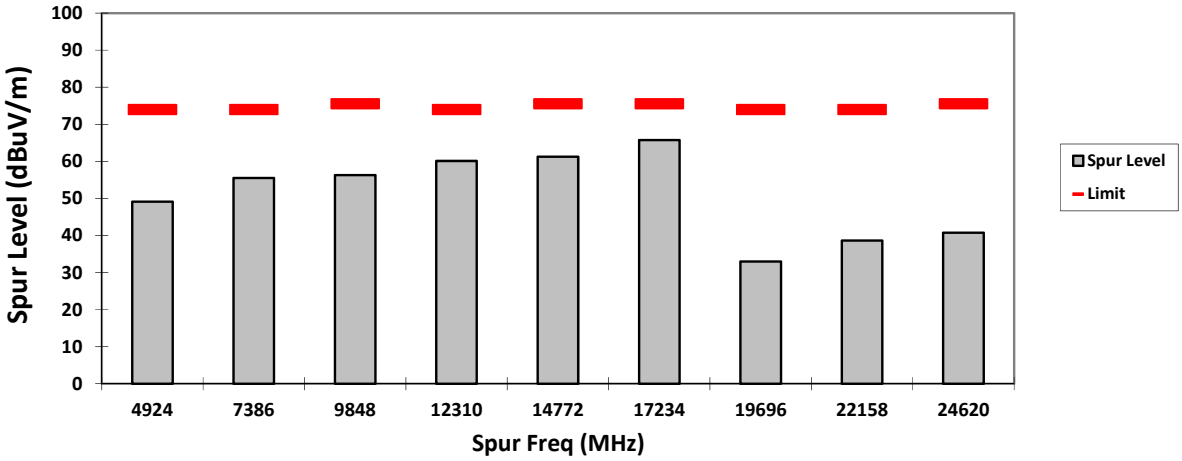
VERTICAL, QPK



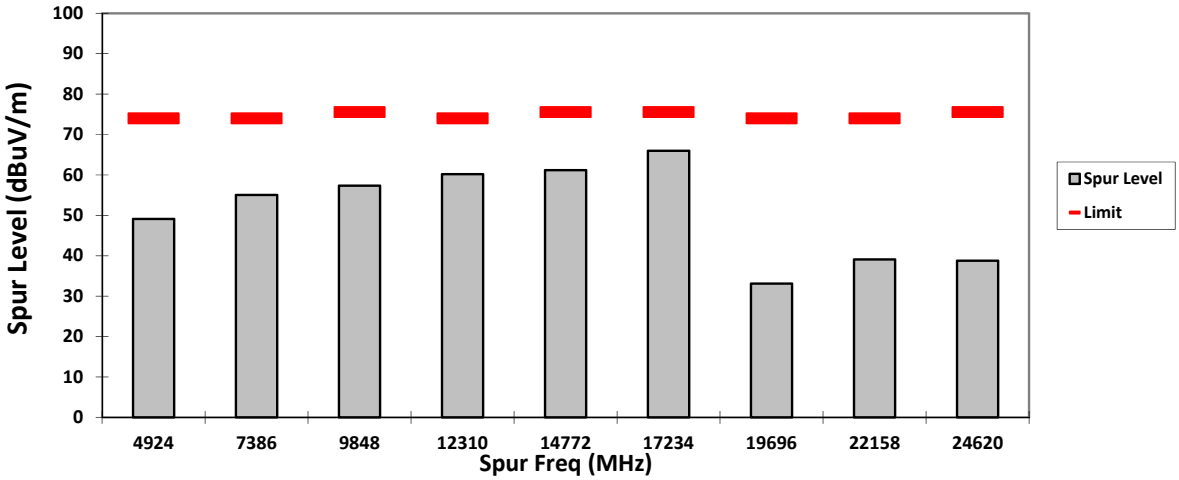
HORIZONTAL, QPK



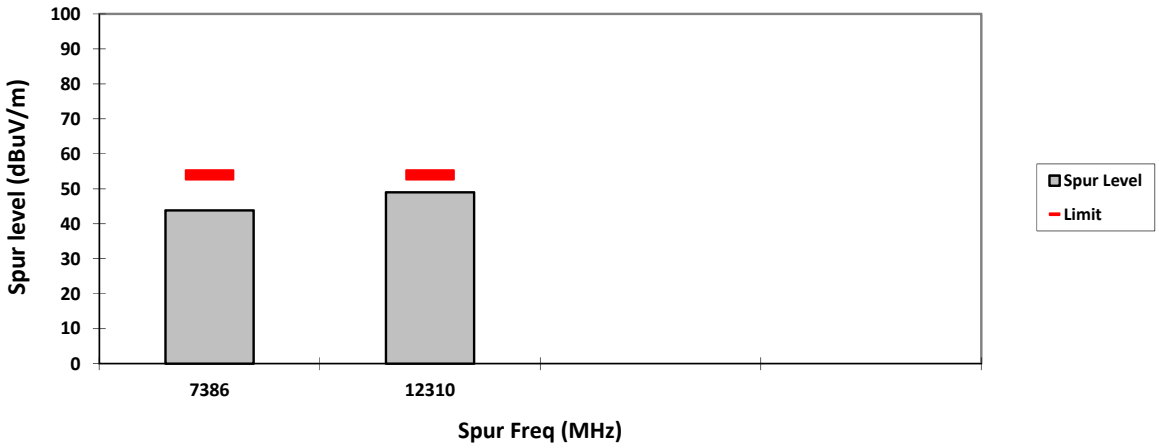
VERTICAL, PK



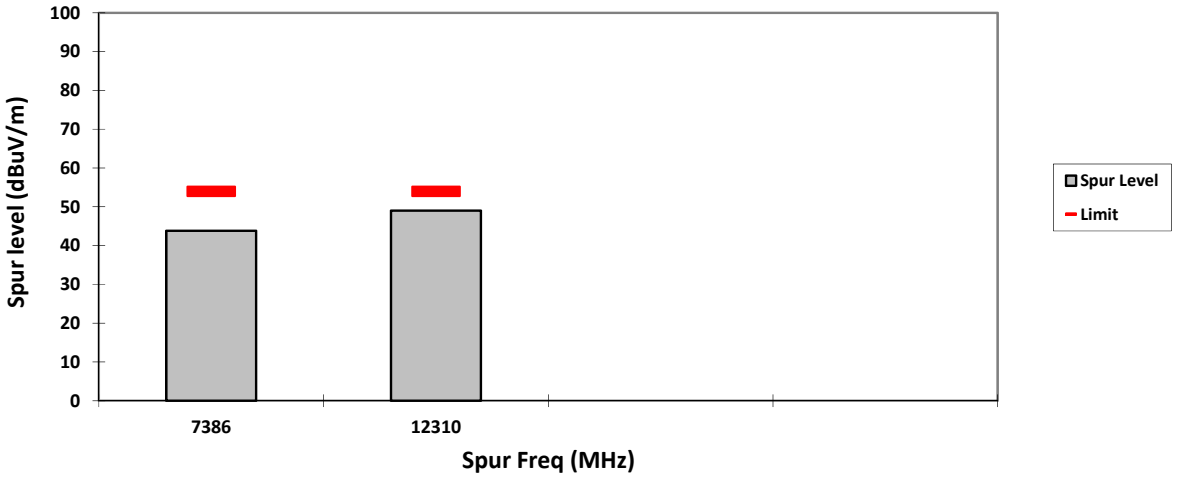
HORIZONTAL, PK



VERTICAL, AV



HORIZONTAL, AV



Test: WIFI SAC Transmitter Radiated Emission
Model#: H98KGH9PW7BN S/N: 481TXV2602 EMC SR ID#: 05897-EMC-00112
Battery: PMNN4494A Accessory: NAR6593A
Test Channel: Low Test Frequency: 2412.0000 MHz Test Standard: ANSI C63.10-2013
Worst Case Plane: X-Plane (802.11n)

Radiated Emission (Low Channel) tabular data

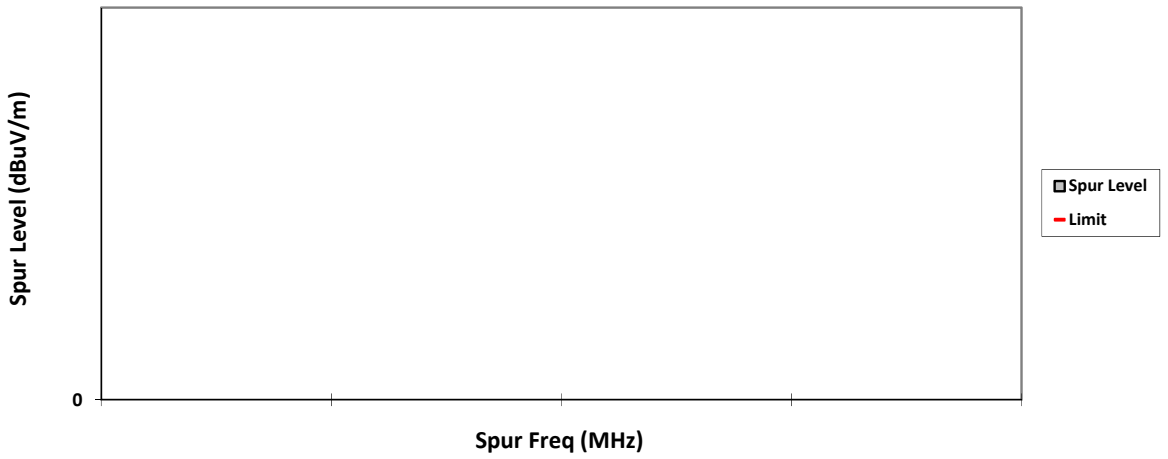
Vertical Radiated Emission Result										
Spur Freq (MHz)	Spur level QPK (dBµV/m)	Spur level PK (dBµV/m)	Spur level AV (dBµV/m)	Limit QPK (dBµV/m)	Limit PK (dBµV/m)	Limit AV (dBµV/m)	Margin QPK (dBµV/m)	Margin PK (dBµV/m)	Margin AV (dBµV/m)	Carrier PK Power (dBµV/m)
4824	-	50.5153**	-	-	74.0	-	-	23.4847	-	-
7236	-	55.6159**	-	-	75.5620	-	-	19.9461	-	105.5620
9648	-	56.1126**	-	-	75.5620	-	-	19.4494	-	105.5620
12060	-	61.0538**	49.3385**	-	74.0	54.0	-	12.9462	4.6615	-
14472	-	63.0928**	51.2571**	-	74.0	54.0	-	10.9072	2.7429	-
16884	-	63.4963**	-	-	75.5620	-	-	12.0657	-	105.5620
19296	-	35.0417**	-	-	74.0	-	-	38.9583	-	-
21708	-	35.8169**	-	-	75.5620	-	-	39.7451	-	105.5620
24120	-	36.8582**	-	-	75.5620	-	-	38.7038	-	105.5620
Horizontal Radiated Emission Result										
4824	-	48.6638**	-	-	74.0	-	-	25.3362	-	-
7236	-	54.0737**	-	-	75.5620	-	-	21.4883	-	105.5620
9648	-	57.2250**	-	-	75.5620	-	-	18.3370	-	105.5620
12060	-	60.1873**	49.3423**	-	74.0	54.0	-	13.8127	4.6577	-
14472	-	62.4673**	51.2590**	-	74.0	54.0	-	11.5327	2.7410	-
16884	-	62.8819**	-	-	75.5620	-	-	12.6801	-	105.5620
19296	-	33.7327**	-	-	74.0	-	-	40.2673	-	-
21708	-	36.4695**	-	-	75.5620	-	-	39.0925	-	105.5620
24120	-	36.1124**	-	-	75.5620	-	-	39.4496	-	105.5620

Remarks: Pass Result	Marginal Result	Fail Result

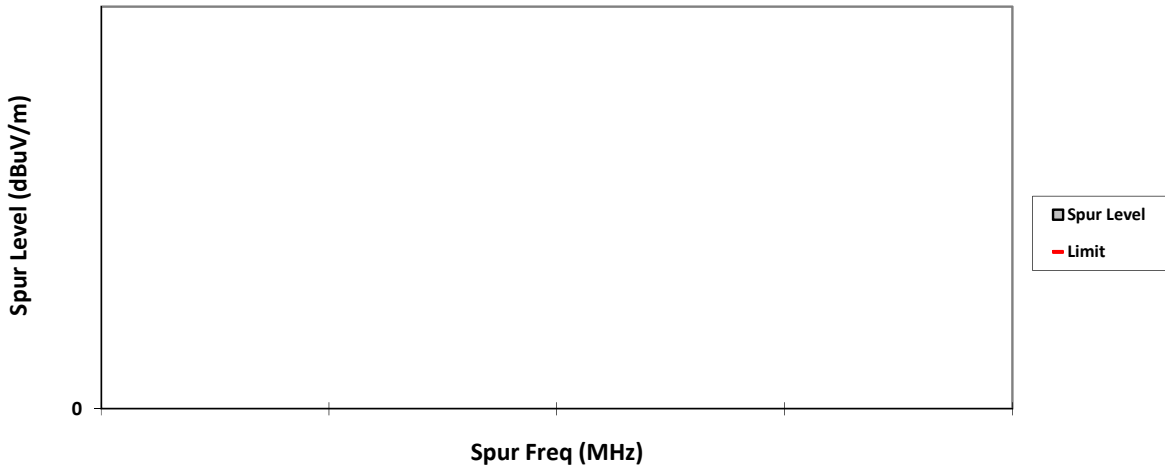
Temperature (degC): 24.1 **Humidity (%): 69.7**
Test Performed by: Qawiman&Nazrin **Test Date: Sun, 7 Nov, 2021**
System MU: 5.88 dB (30-1000MHz), 5.84 dB (1000-18000MHz), 6.02 dB (18000MHz-40000MHz)

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.
***Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported.**

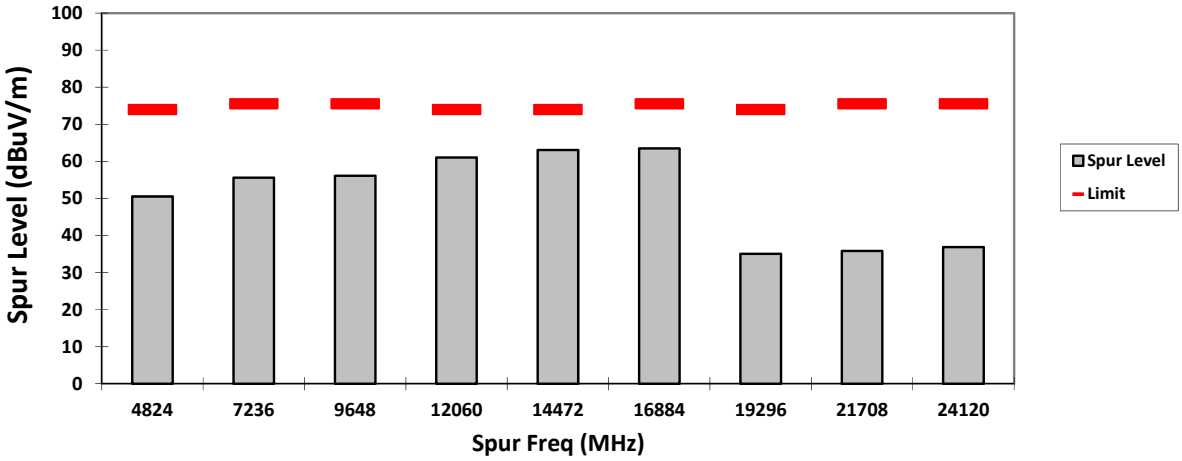
VERTICAL, QPK



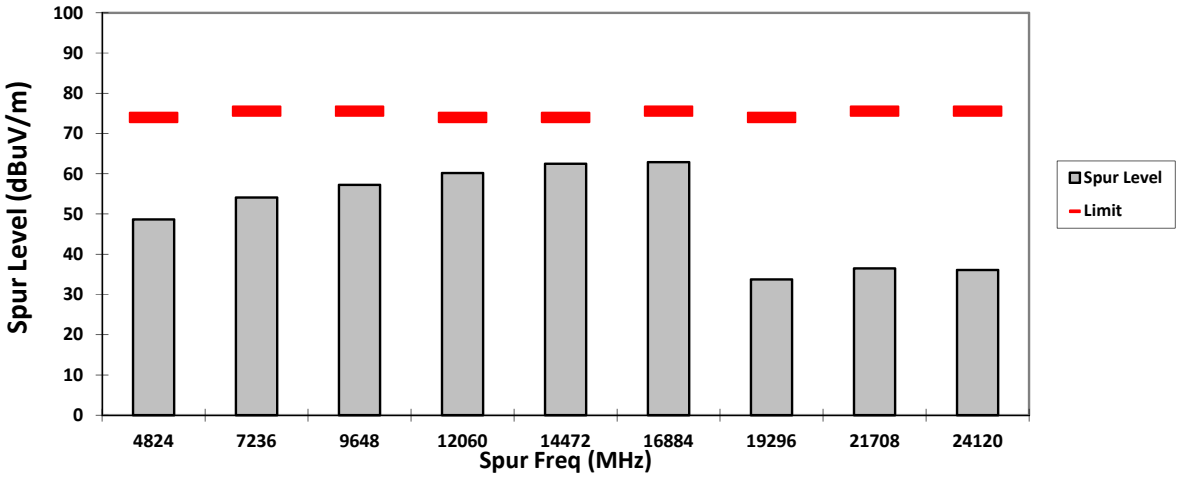
HORIZONTAL, QPK



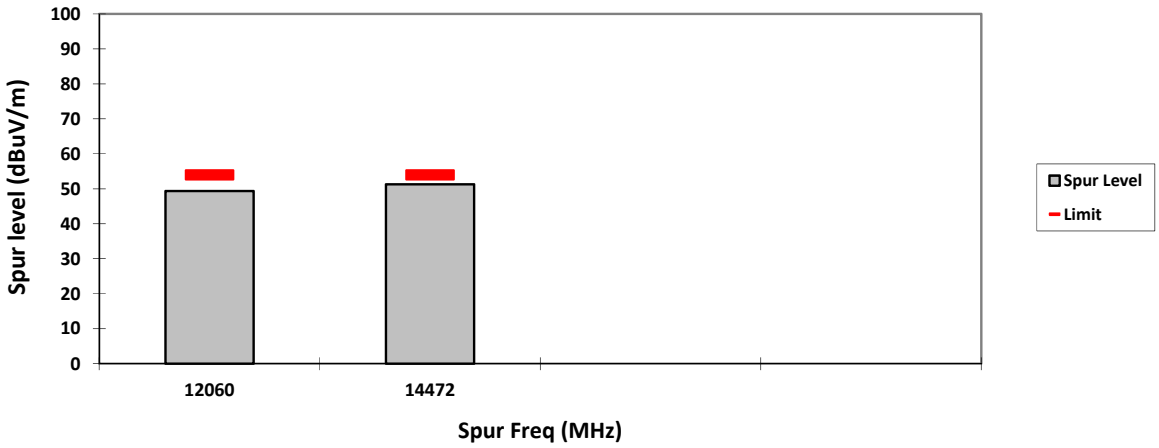
VERTICAL, PK



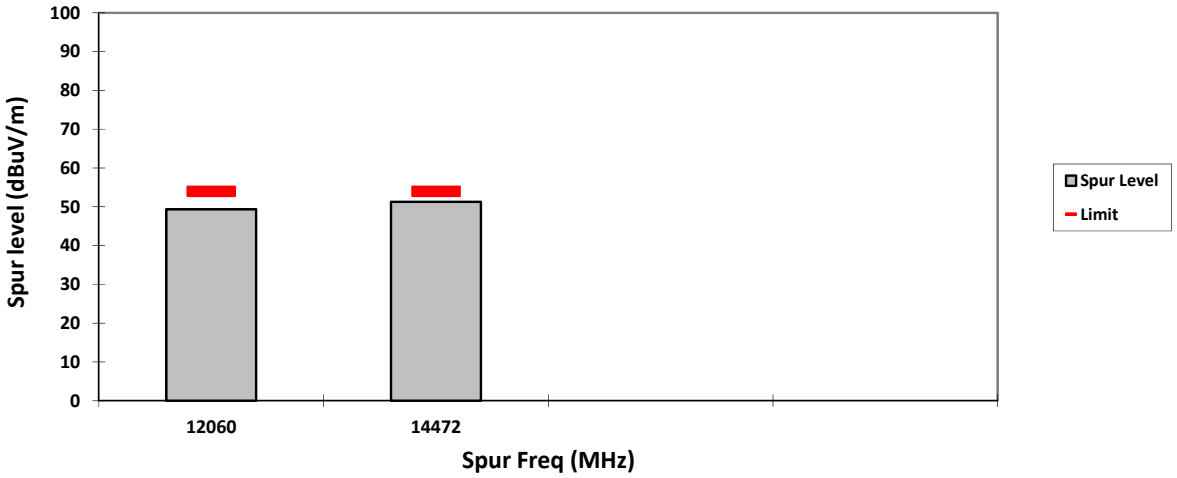
HORIZONTAL, PK



VERTICAL, AV



HORIZONTAL, AV



Test: WIFI SAC Transmitter Radiated Emission
Model#: H98KGH9PW7BN S/N: 481TXV2602 EMC SR ID#: 05897-EMC-00112
Battery: PMNN4494A Accessory: NAR6593A
Test Channel: Mid Test Frequency: 2437.0000 MHz Test Standard: ANSI C63.10-2013
Worst Case Plane: X-Plane (802.11n)

Radiated Emission (Mid Channel) tabular data

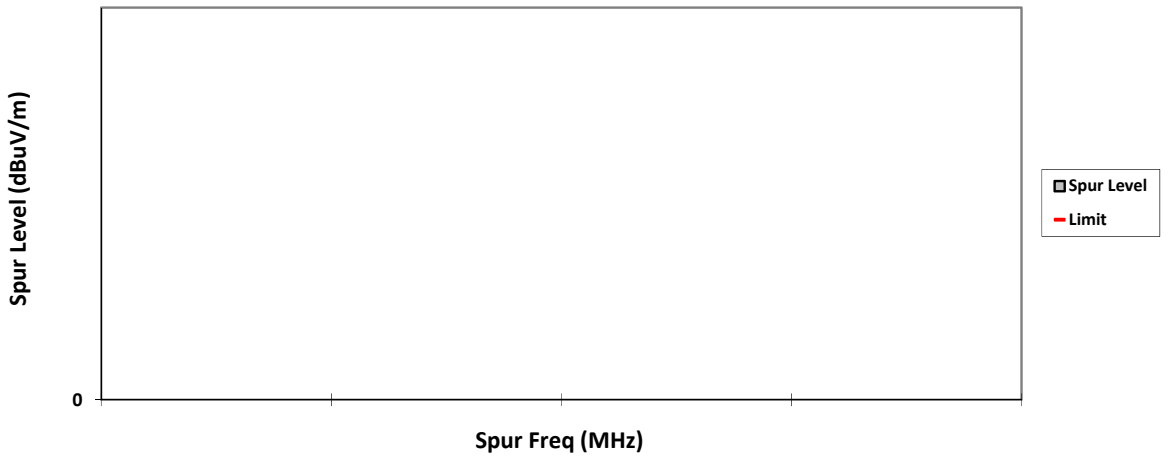
Vertical Radiated Emission Result										
Spur Freq (MHz)	Spur level QPK (dBµV/m)	Spur level PK (dBµV/m)	Spur level AV (dBµV/m)	Limit QPK (dBµV/m)	Limit PK (dBµV/m)	Limit AV (dBµV/m)	Margin QPK (dBµV/m)	Margin PK (dBµV/m)	Margin AV (dBµV/m)	Carrier PK Power (dBµV/m)
4874	-	48.4637**	-	-	74.0	-	-	25.5363	-	-
7311	-	54.4249**	43.0247**	-	74.0	54.0	-	19.5751	10.9753	-
9748	-	56.1674**	-	-	75.5620	-	-	19.3946	-	105.5620
12185	-	60.3731**	49.0664**	-	74.0	54.0	-	13.6269	4.9336	-
14622	-	61.3830**	-	-	75.5620	-	-	14.1790	-	105.5620
17059	-	64.4042**	-	-	75.5620	-	-	11.1578	-	105.5620
19496	-	32.8572**	-	-	74.0	-	-	41.1428	-	-
21933	-	38.6913**	-	-	75.5620	-	-	36.8707	-	105.5620
24370	-	37.9139**	-	-	75.5620	-	-	37.6481	-	105.5620
Horizontal Radiated Emission Result										
4874	-	47.8524**	-	-	74.0	-	-	26.1476	-	-
7311	-	54.7145**	43.0847**	-	74.0	54.0	-	19.2855	10.9153	-
9748	-	56.6191**	-	-	75.5620	-	-	18.9429	-	105.5620
12185	-	61.4311**	49.0665**	-	74.0	54.0	-	12.5689	4.9335	-
14622	-	62.3865**	-	-	75.5620	-	-	13.1755	-	105.5620
17059	-	64.7026**	-	-	75.5620	-	-	10.8594	-	105.5620
19496	-	33.6207**	-	-	74.0	-	-	40.3793	-	-
21933	-	40.0348**	-	-	75.5620	-	-	35.5272	-	105.5620
24370	-	38.1983**	-	-	75.5620	-	-	37.4637	-	105.5620

Remarks: Pass Result	Marginal Result	Fail Result

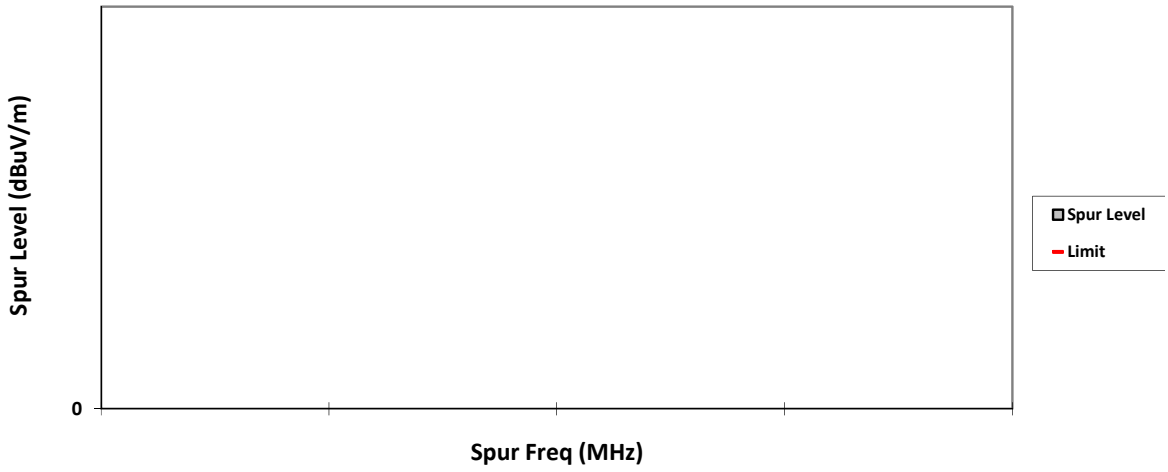
Temperature (degC): 24.1 Humidity (%): 69.7
Test Performed by: Qawiman&Nazrin Test Date: Sun, 7 Nov, 2021
System MU: 5.88 dB (30-1000MHz), 5.84 dB (1000-18000MHz), 6.02 dB (18000MHz-40000MHz)

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.
***Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported.**

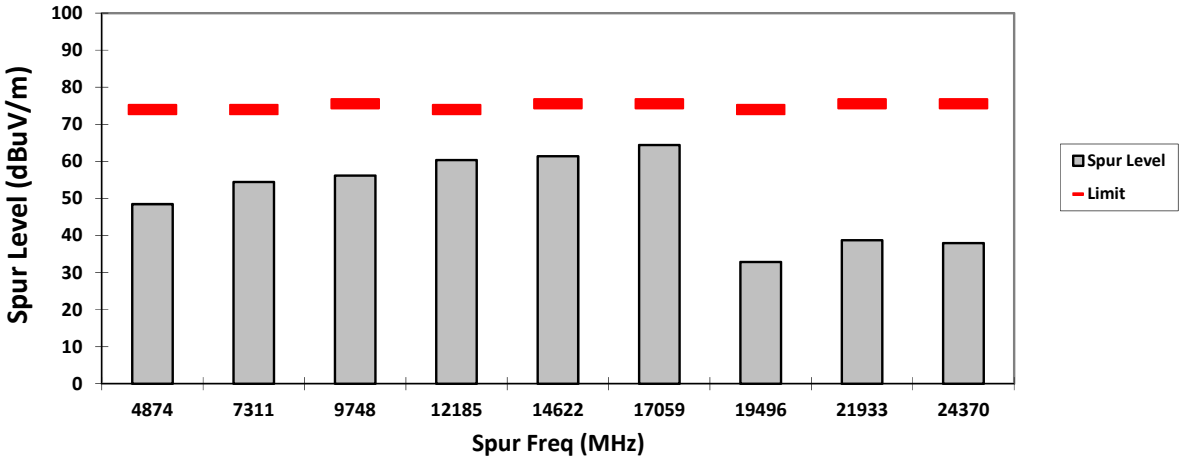
VERTICAL, QPK



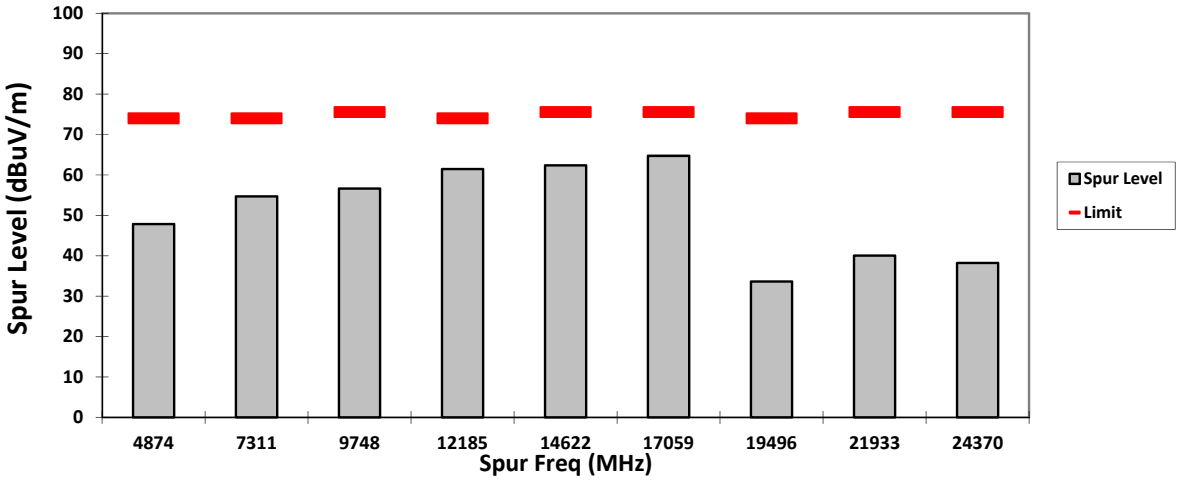
HORIZONTAL, QPK



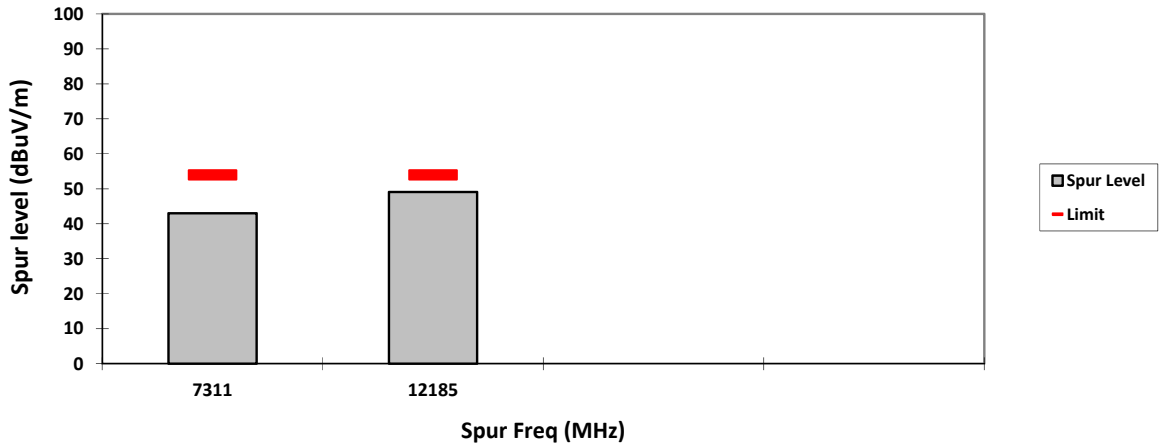
VERTICAL, PK



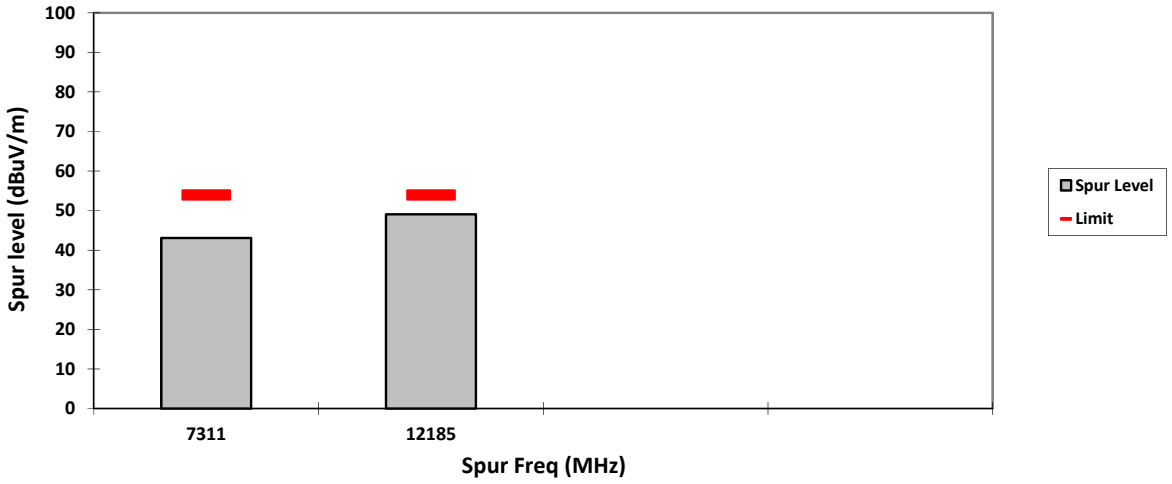
HORIZONTAL, PK



VERTICAL, AV



HORIZONTAL, AV



Test: WIFI SAC Transmitter Radiated Emission
Model#: H98KGH9PW7BN S/N: 481TXV2602 EMC SR ID#: 05897-EMC-00112
Battery: PMNN4494A Accessory: NAR6593A
Test Channel: High Test Frequency: 2462.0000 MHz Test Standard: ANSI C63.10-2013
Worst Case Plane: X-Plane (802.11n)

Radiated Emission (High Channel) tabular data

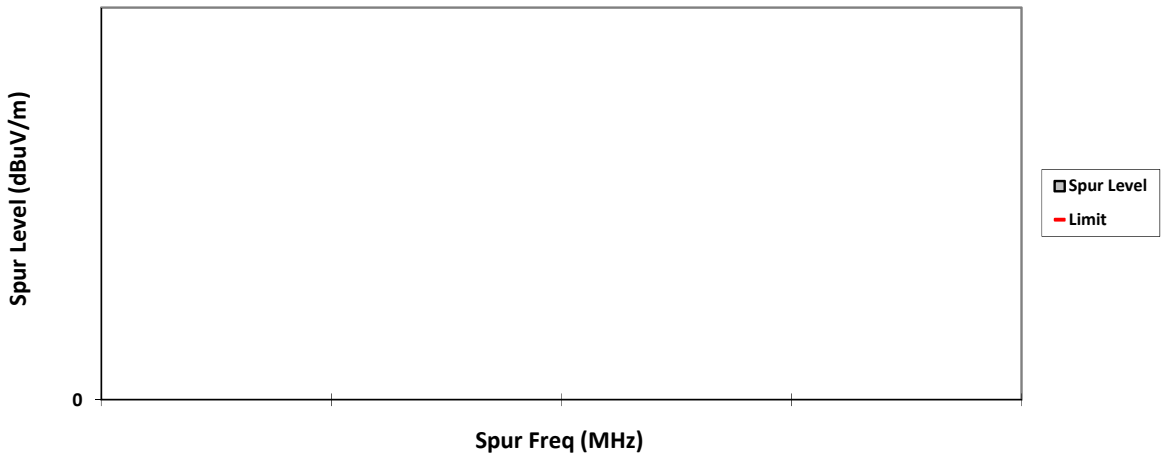
Vertical Radiated Emission Result										
Spur Freq (MHz)	Spur level QPK (dBµV/m)	Spur level PK (dBµV/m)	Spur level AV (dBµV/m)	Limit QPK (dBµV/m)	Limit PK (dBµV/m)	Limit AV (dBµV/m)	Margin QPK (dBµV/m)	Margin PK (dBµV/m)	Margin AV (dBµV/m)	Carrier PK Power (dBµV/m)
4924	-	49.4047**	-	-	74.0	-	-	24.5953	-	-
7386	-	55.5644**	43.8286**	-	74.0	54.0	-	18.4356	10.1714	-
9848	-	55.9314**	-	-	75.5620	-	-	19.6306	-	105.5620
12310	-	59.8386**	49.2377**	-	74.0	54.0	-	14.1614	4.7623	-
14772	-	60.2809**	-	-	75.5620	-	-	15.2811	-	105.5620
17234	-	64.1215**	-	-	75.5620	-	-	11.4405	-	105.5620
19696	-	33.7692**	-	-	74.0	-	-	40.2308	-	-
22158	-	39.0008**	-	-	74.0	-	-	34.9992	-	-
24620	-	40.1943**	-	-	75.5620	-	-	35.3677	-	105.5620
Horizontal Radiated Emission Result										
4924	-	51.5796**	-	-	74.0	-	-	22.4204	-	-
7386	-	55.1047**	43.8251**	-	74.0	54.0	-	18.8953	10.1749	-
9848	-	56.4302**	-	-	75.5620	-	-	19.1318	-	105.5620
12310	-	60.4183**	49.0007**	-	74.0	54.0	-	13.5817	4.9993	-
14772	-	60.9150**	-	-	75.5620	-	-	14.6470	-	105.5620
17234	-	64.7118**	-	-	75.5620	-	-	10.8502	-	105.5620
19696	-	32.7421**	-	-	74.0	-	-	41.2579	-	-
22158	-	40.1914**	-	-	74.0	-	-	33.8086	-	-
24620	-	39.9384**	-	-	75.5620	-	-	35.6236	-	105.5620

Remarks: Pass Result	Marginal Result	Fail Result

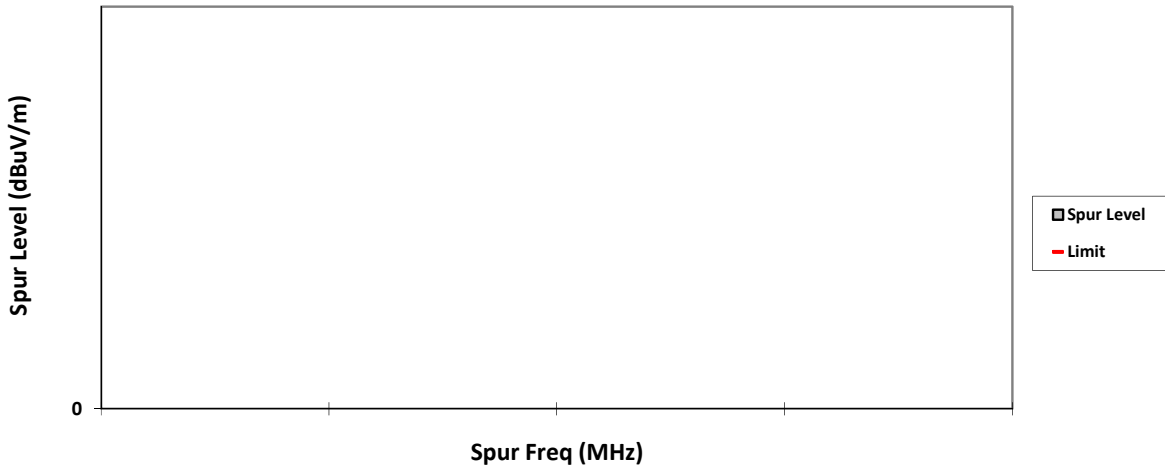
Temperature (degC): 24.1 Humidity (%): 69.7
Test Performed by: Qawiman&Nazrin Test Date: Sun, 7 Nov, 2021
System MU: 5.88 dB (30-1000MHz), 5.84 dB (1000-18000MHz), 6.02 dB (18000MHz-40000MHz)

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.
***Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported.**

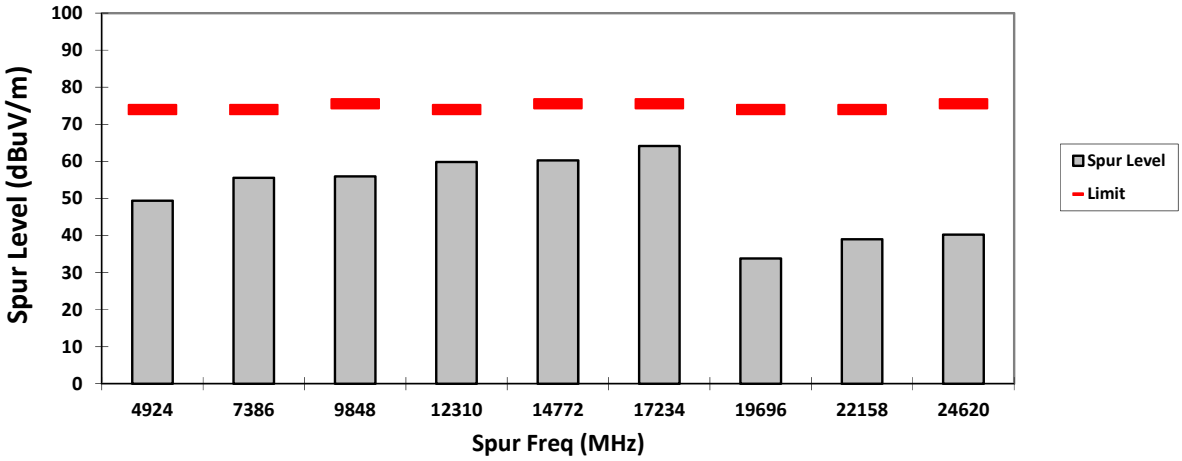
VERTICAL, QPK



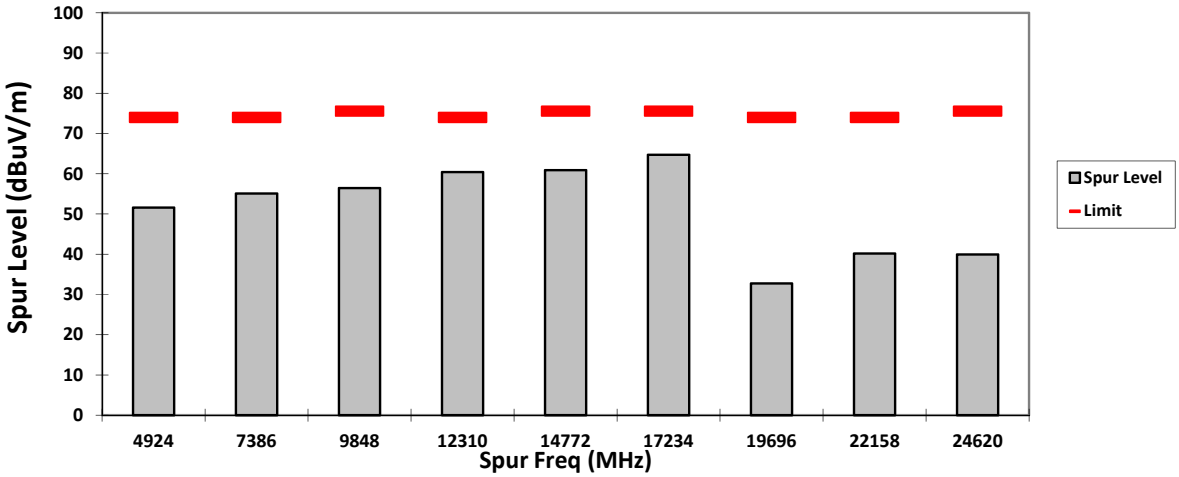
HORIZONTAL, QPK



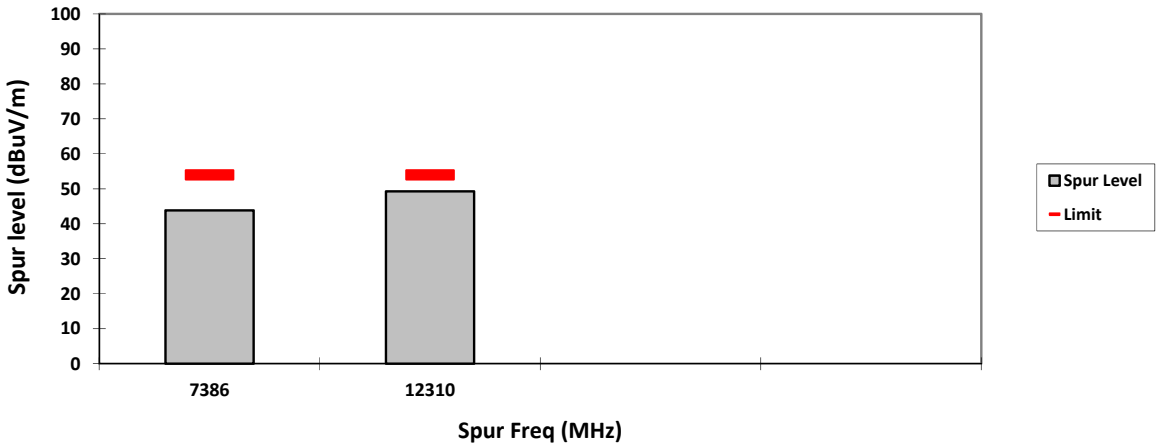
VERTICAL, PK



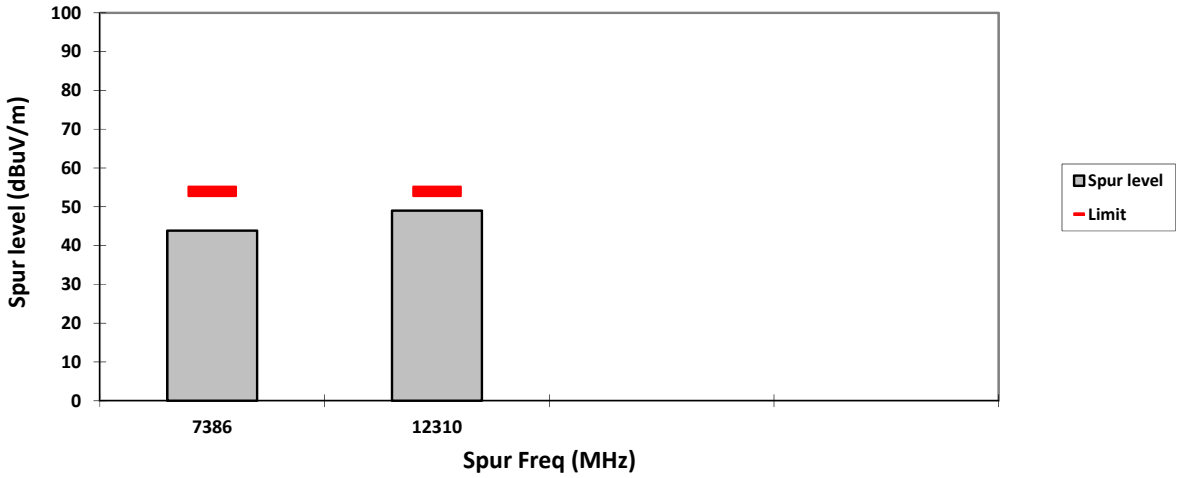
HORIZONTAL, PK



VERTICAL, AV

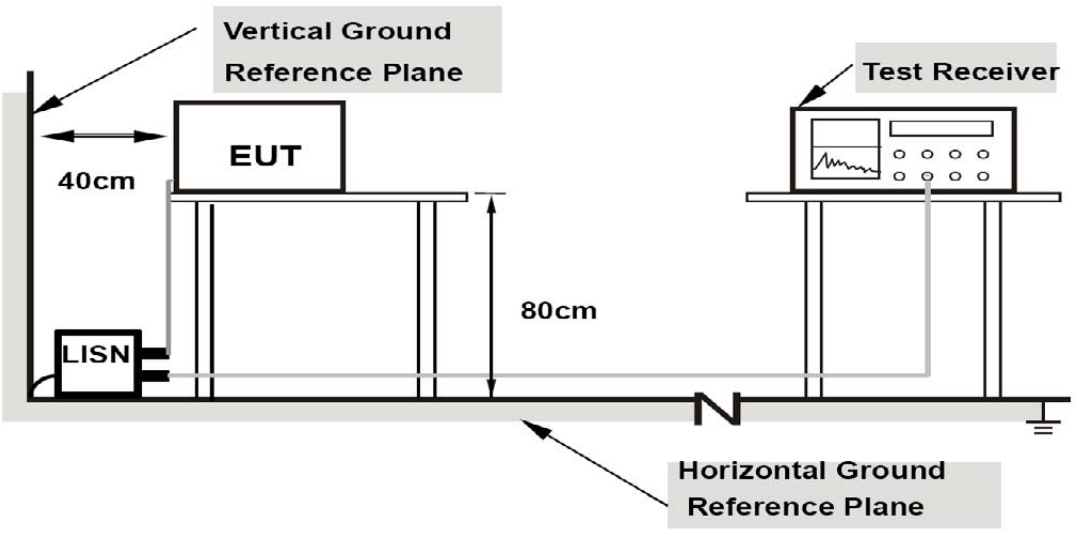


HORIZONTAL, AV



6.8. AC Powerline Conducted Emission

6.8.1. Test Setup



1) Tests were conducted for both Receive and Transmit Mode of the EUT.
2) The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/50uH of coupling impedance for the measuring instrument.
3) Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
4) The frequency range from 150 kHz to 30MHz was measured.

6.8.2. Test Limits:

For AC Power Line Conducted Test Limit can be Class A or B depends on product classification.

Limits for conducted disturbance at the mains ports of class A ITE

Frequency range MHz	Limits dB(µV)	
	Quasi-peak	Average
0,15 to 0,50	79	66
0,50 to 30	73	60
NOTE The lower limit shall apply at the transition frequency.		

Table 1: Limits for Conducted Disturbance at the Mains Ports of Class A ITE.

Limits for conducted disturbance at the mains ports of class B ITE

Frequency range MHz	Limits dB(µV)	
	Quasi-peak	Average
0,15 to 0,50	66 to 56	56 to 46
0,50 to 5	56	46
5 to 30	60	50
NOTE 1 The lower limit shall apply at the transition frequencies. NOTE 2 The limit decreases linearly with the logarithm of the frequency in the range 0,15 MHz to 0,50 MHz.		

Table 2: Limits for Conducted Disturbance at the Mains Ports of Class B ITE

6.8.3. Test Result

Not Applicable. Testing is not required, radio shall turn off during charging mode.

END OF TEST REPORT