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<table><tr><td>Date/s Tested</td><td>: 3-June-2017 - 12-June-2017</td></tr><tr><td>Report Issue Date</td><td>: 17-June-2017</td></tr><tr><td>Manufacturer/Location</td><td>: Motorola Solutions - Penang</td></tr><tr><td>Requestor</td><td>: MOHAMED AFENDY MOHAMED RAFI</td></tr><tr><td>Product Type</td><td>: Portable</td></tr><tr><td>Model Number</td><td>: AAH88JCD9SA2AN</td></tr><tr><td>Frequency Band</td><td>: 2.402 - 2.480 GHz</td></tr><tr><td>Rated / Max RF Output Power</td><td>: 6.3 mWatts / 9.2 mWatts</td></tr><tr><td>Applicant Name</td><td>: Motorola Solution Malaysia Sdn Bhd</td></tr><tr><td>Applicant Address</td><td>: Innoplex Plot 2A, Medan Bayan Lepas, Mukim 12, S.W.D. 11900 Bayan Lepas, Penang, Malaysia</td></tr><tr><td>FCC Registrations</td><td>: 772092</td></tr><tr><td>IC Registrations</td><td>: 109AK</td></tr></table>  The equipment was tested accordance to the requirement listed below: <table><tr><td>(2.4GHz BT)</td><td>PASS</td></tr><tr><td>Part 15C</td><td></td></tr><tr><td>IC RSS 247</td><td></td></tr></table>		Date/s Tested	: 3-June-2017 - 12-June-2017	Report Issue Date	: 17-June-2017	Manufacturer/Location	: Motorola Solutions - Penang	Requestor	: MOHAMED AFENDY MOHAMED RAFI	Product Type	: Portable	Model Number	: AAH88JCD9SA2AN	Frequency Band	: 2.402 - 2.480 GHz	Rated / Max RF Output Power	: 6.3 mWatts / 9.2 mWatts	Applicant Name	: Motorola Solution Malaysia Sdn Bhd	Applicant Address	: Innoplex Plot 2A, Medan Bayan Lepas, Mukim 12, S.W.D. 11900 Bayan Lepas, Penang, Malaysia	FCC Registrations	: 772092	IC Registrations	: 109AK	(2.4GHz BT)	PASS	Part 15C		IC RSS 247	
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Prepared By:  Jino Lim Test Personnel	Approved By:  Goh Aik Hong Responsible Engineer																														

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REVISION HISTORY

Revision History	Description	Date	Originator
Rev. A	Initial Report	17-June-2017	Jino Lim
Rev. B	Revise the section 6.4.3	19-July-2017	Jino Lim

1.0. General Information

EUT Description:

Technologies	2.4GHz BT
TX Frequency range	2402MHz – 2480MHz
Modulation Type	GFSK, Pi/4 DQPSK, 8DPSK
Input/Output	RF Port
Connector type	PROGRAMMING, TEST & ALIGNMENT CABLE
Antenna type	BT/WIFI MODULE PATCH ANTENNA

Channel number and frequency information:

79 channels are provided to this EUT:

Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)
0	2402	20	2422	40	2442	60	2462
1	2403	21	2423	41	2443	61	2463
2	2404	22	2424	42	2444	62	2464
3	2405	23	2425	43	2445	63	2465
4	2406	24	2426	44	2446	64	2466
5	2407	25	2427	45	2447	65	2467
6	2408	26	2428	46	2448	66	2468
7	2409	27	2429	47	2449	67	2469
8	2410	28	2430	48	2450	68	2470
9	2411	29	2431	49	2451	69	2471
10	2412	30	2432	50	2452	70	2472
11	2413	31	2433	51	2453	71	2473
12	2414	32	2434	52	2454	72	2474
13	2415	33	2435	53	2455	73	2475
14	2416	34	2436	54	2456	74	2476
15	2417	35	2437	55	2457	75	2477
16	2418	36	2438	56	2458	76	2478
17	2419	37	2439	57	2459	77	2479
18	2420	38	2440	58	2460	78	2480
19	2421	39	2441	59	2461		

The EUT contains following accessory devices and data cable:

Item	Brand	Model or P/N
BATT LIION 2300T (BT100x)	MOTOROLA	PMNN4468A
PROGRAMMING, TEST & ALIGNMENT CABLE	MOTOROLA	-

General Description of Applied Standards

The EUT is a RF Product. According to the specifications of the manufacturer, the EUT is to comply with the requirements of the following standards:

ANSI C63.10-2013

2.0. Summary of Test Results

FCC Clause	IC Clause	Test Item	Result	Remark
15.247 (b)(1)	RSS-247 5.1(2)	Conducted RF Output Power (Peak)	Pass	NA
15.247 (a)(1)	RSS-247 5.1(1) RSS-247 5.1(2)	(1) 20dB Channel Bandwidth (2) Channel Separation	Pass	NA
15.247(a)(1)(iii)	RSS-247 5.1(4)	Number of hopping Frequency used	Pass	NA
15.247(a)(1)(iii)	RSS-247 5.1(4)	Dwell time on each channel	Pass	NA
15.247 (d)	RSS-247 5.5	Band Edge Conducted Spurious Emission	Pass	NA
15.247 (d)	RSS-247 5.5	Conducted Spurious Emission	Pass	NA
15.205, 15.209, 15.247 (d)	RSS-247 5.5	Radiated Emission within Restricted Bands	Pass	NA
15.207	RSS-Gen 8.8	AC Powerline Conducted Emission	NA	Testing is not required, radio shall turn off during charging mode
15.203	-	Antenna Requirement	NA	Internal antenna is not accessible to the end-user

3.0. Measurement Uncertainty

Measurement	Frequency	Expended Uncertainty (k=1.96) (±)
AC Power Line Conducted Spurious Emission	150KHz ~ 30MHz	3.43
Radiated Emissions up to 1 GHz	30MHz ~ 200MHz	5.01
	200MHz ~ 1000MHz	5.01
Radiated Emissions above 1 GHz	1GHz ~ 18GHz	5.01
	18GHz ~ 25GHz	5.01

4.0. Equipment List

Bluetooth ATE # 1 (SW Version: Ate Main_3.1.9_R1)

Description	Model	Serial Number	Calibration Date	Calibration Due Date
SPECTRUM ANALYZER	E4445A	MY46181597	21-Dec-16	21-Dec-18
POWER SUPPLY	6652A	3541A02403	7-Sep-15	7-Sep-17
SPECTRUM ANALYZER	FSEK30	838495/014	29-Jun-16	29-Jun-18

Radiated Emission Station (SW Version: EMC FCC RE v1.5.1)

Description	Model	Serial Number	Calibration Date	Calibration Due Date
DRG HORN FREQ.	SAS-571	566	4-Sep-16	4-Sep-17
DRG HORN FREQ.	SAS-571	720	2-Mar-17	2-Mar-19
POWER SUPPLY	6674A	3126A00133	12-Nov-15	12-Nov-17
MICROWAVE SIGNAL GENERATOR	SMP04	100127	3-Jul-16	3-Jul-17
EMI TEST RECEIVER	ESIB26	100336	19-Oct-16	19-Oct-17
SIGNAL ANALYZER	FSV40	101103	25-Jun-16	25-Jun-17
5m Semi-anechoic Chamber	S800-HX	J2308	29-Jul-16	29-Jul-17
BILOG ANTENNA	CBL6112B	2950	23-Feb-16	23-Feb-18
BILOG ANTENNA	CBL6112B	2964	3-Feb-17	3-Feb-18
BROAD-BAND HORN ANTENNA	BBHA9170	BBHA9170255	14-Oct-16	14-Oct-17
DATA LOGGER	SDL500	A.016776	18-Mar-17	18-Mar-18
SYSTEM CONTROLLER	SC104V	050806-1	Not Required	Not Required
TURNTABLE FLUSH MOUNT 2M	FM2011	NA	Not Required	Not Required
ANTENNA POSITIONING TOWER	TLT2	NA	Not Required	Not Required
18 - 40GHz PREAMPLIFIER	BBV9721	9721-007	Not Required	Not Required
LOOP ANTENNA	6502	208416	24-Jun-16	24-Jun-17
PREAMPLIFIER	PAM-0118P	361	Not Required	Not Required

5.0. Test Mode Applicability and Test Channel Detail

Radiated Emission Test (Above 1GHz)

☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type
Test Mode	0 to 78	0,39,78	FHSS	GFSK, Pi/4 DQPSK,8DPSK

Radiated Emission Test (Below 1GHz)

☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type
Test Mode	0 to 78	0,39,78	FHSS	GFSK, Pi/4 DQPSK,8DPSK

Power Line Conducted Emission Test

☐ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

☐ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type
Application Mode	0 to 78	AUTO	FHSS	AUTO

Antenna Port Conducted Measurement:

☒ This item includes all test value of each mode, but only includes spectrum plot of worst value of each mode.

☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

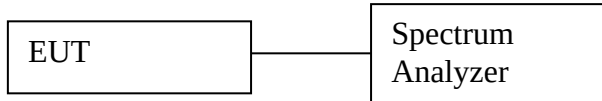
☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type
Test Mode	0 to 78	0,39,78	FHSS	GFSK, Pi/4 DQPSK,8DPSK

6.0. Transmitter Test Parameters

6.1. Conducted RF Output Power (Peak)

6.1.1. Test Setup



- a) Check and ensure the spectrum analyzer well calibrate.
- b) Turn on the EUT and set EUT to transmit maximum data rate with hopping disable.
- c) Connect EUT's antenna terminal to spectrum analyzer with a low loss cable.
- d) Setting of Spectrum analyzer :
 - a. RBW = > 20 dB bandwidth
 - b. VBW = RBW
 - c. Detector mode = Peak
 - d. AMPLITUDE → Scale/Div = 10 dB
 - e. Trace = Max hold
 - f. Sweep = auto
- e) Measure the captured power within the band and recording the plot.
- f) Repeat above procedure with other different mode of operation.

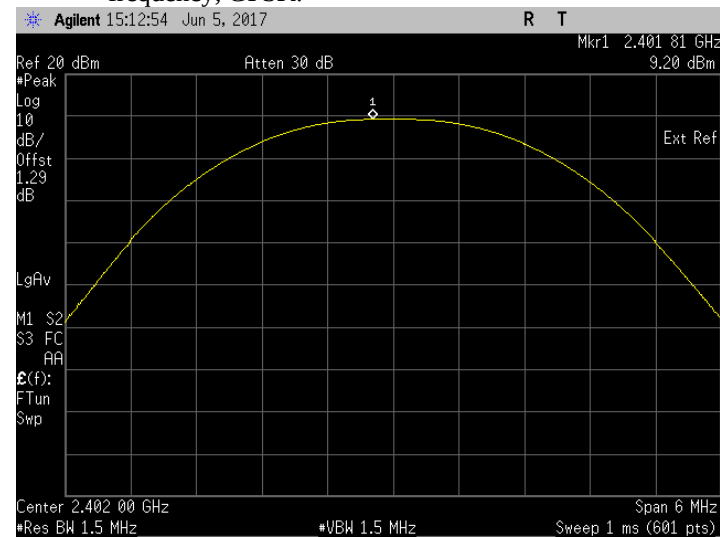
6.1.2. Test Limits:

Normal Condition (25 ° C)
≤ 125mW (or 20.9dBm)

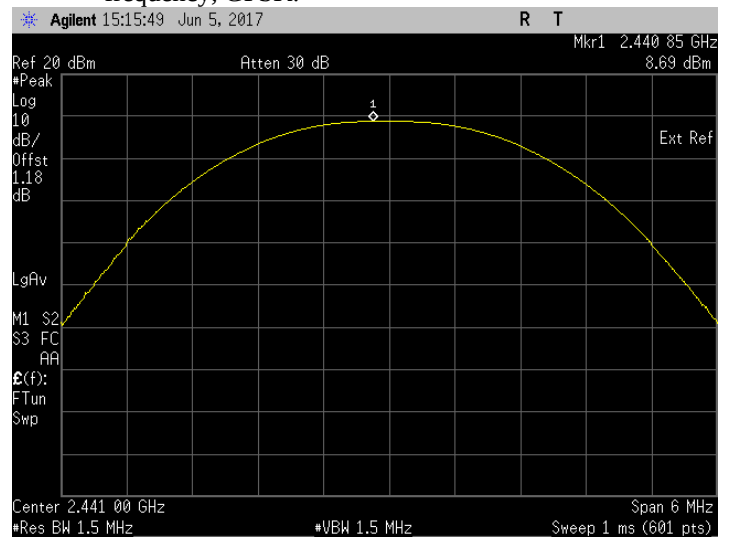
6.1.3. Test Data:

Test Conditions		Test Frequency (GHz)	Results	
Modulation	Voltage(V)		dBm	Status
GFSK	3.70	2.4020	9.20	Pass
		2.4410	8.69	Pass
		2.4800	9.38	Pass
Pi/4DQPSK	3.70	2.4020	8.75	Pass
		2.4410	8.20	Pass
		2.4800	9.06	Pass
8DPSK	3.70	2.4020	9.21	Pass
		2.4410	8.62	Pass
		2.4800	9.54	Pass

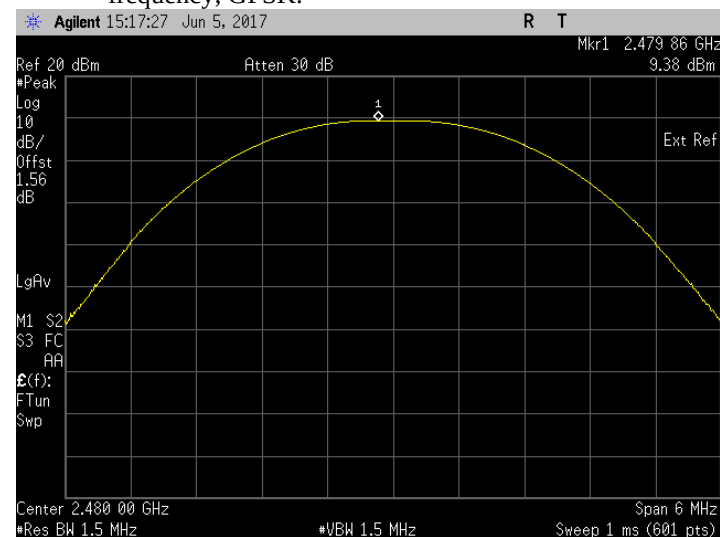
i. The Conducted RF Output Power test with result at low frequency, GFSK.



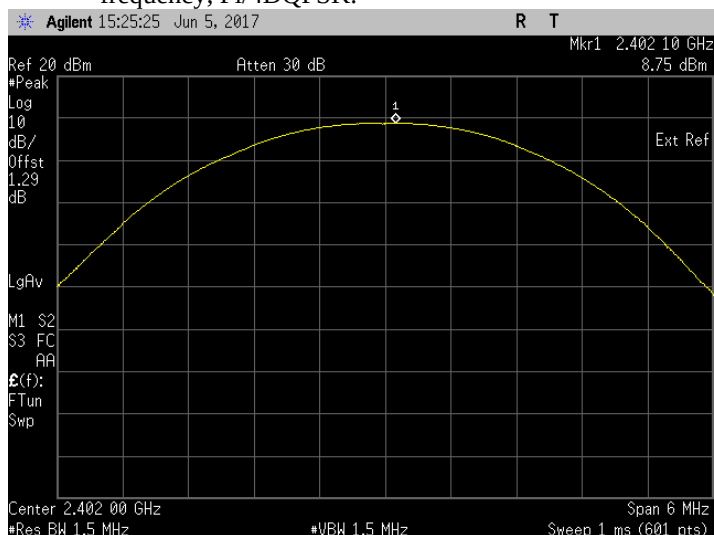
ii. The Conducted RF Output Power test with result at mid frequency, GFSK.



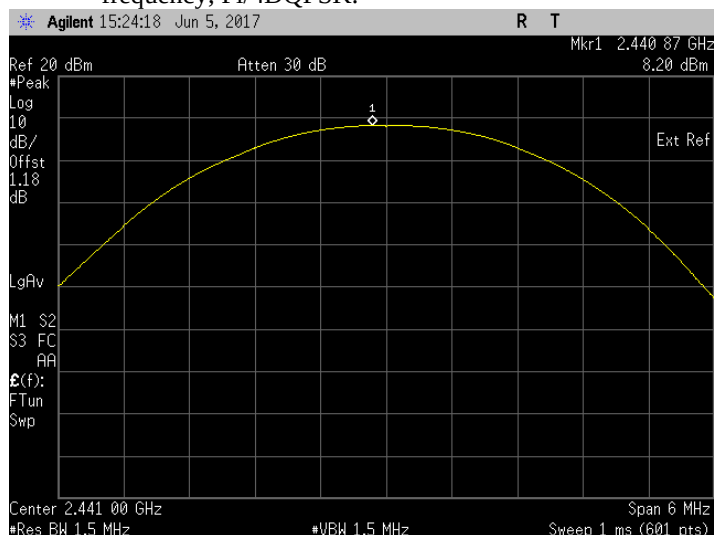
iii. The Conducted RF Output Power test with result at high frequency, GFSK.



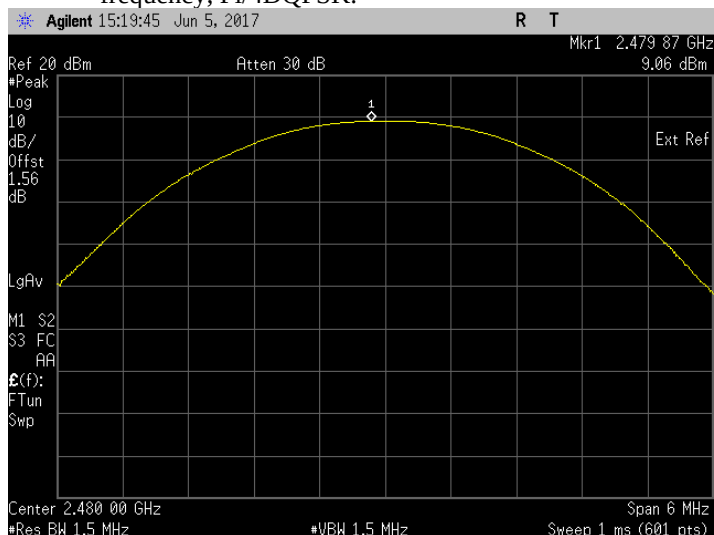
- i. The Conducted RF Output Power test with result at low frequency, Pi/4DQPSK.



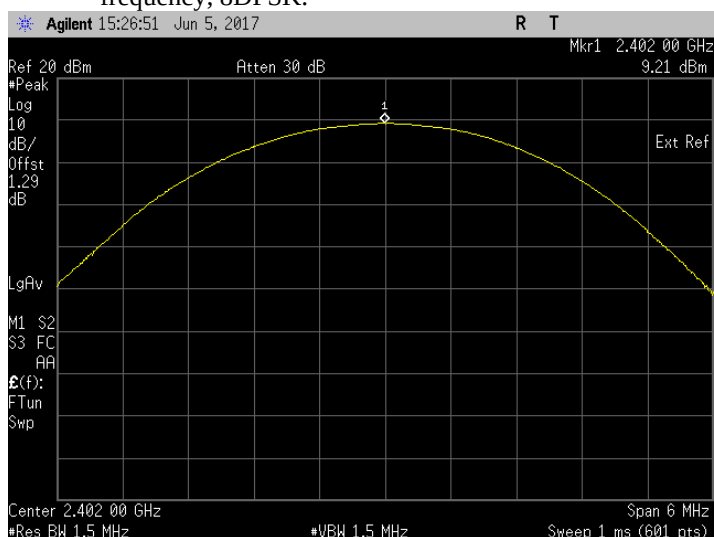
- ii. The Conducted RF Output Power test with result at mid frequency, Pi/4DQPSK.



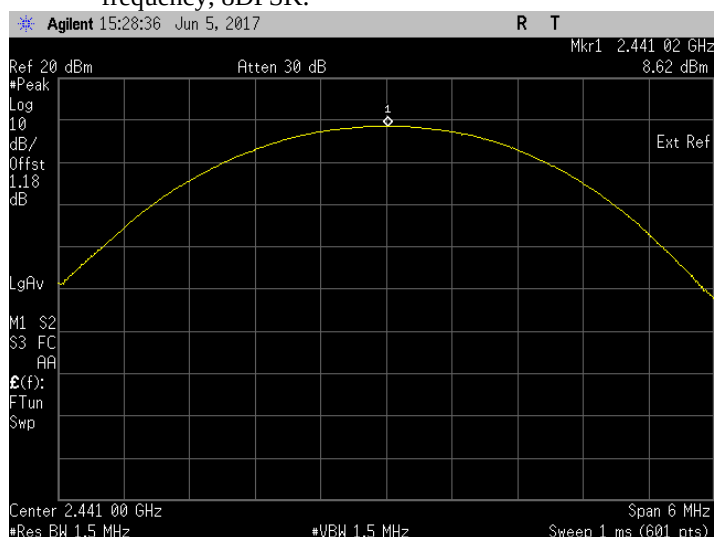
- iii. The Conducted RF Output Power test with result at high frequency, Pi/4DQPSK.



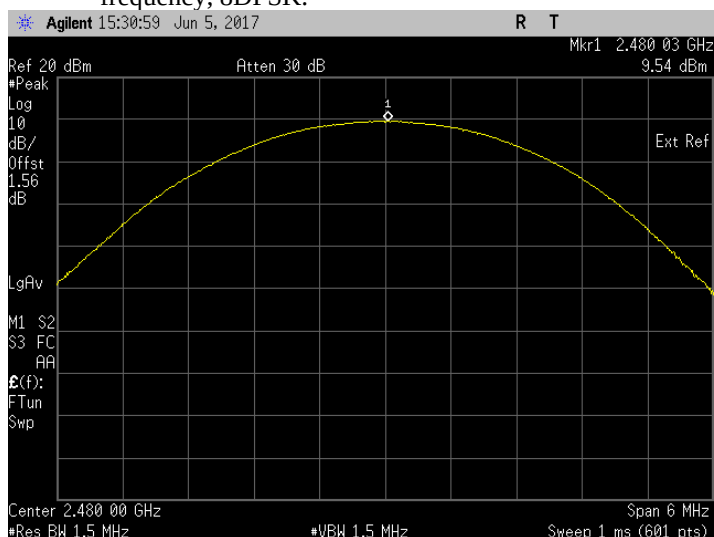
- i. The Conducted RF Output Power test with result at low frequency, 8DPSK.



- ii. The Conducted RF Output Power test with result at mid frequency, 8DPSK.

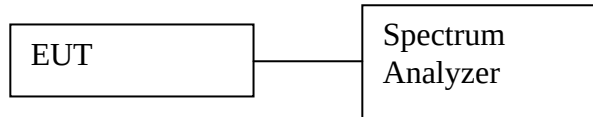


- iii. The Conducted RF Output Power test with result at high frequency, 8DPSK.



6.2. 20dB Channel Bandwidth

6.2.1. Test Setup



- a) Check and ensure the spectrum analyzer well calibrate.
- b) Turn on the EUT and set EUT to transmit maximum data rate with hopping disable.
- c) Connect EUT's antenna terminal to spectrum analyzer with a low loss cable.
- d) Setting of Spectrum analyzer :
 - a. RBW = 30 kHz
 - b. VBW = 100 kHz
 - c. SPAN = 3 MHz, center on test frequency
 - d. AMPLITUDE → Scale/Div = 10 dB
 - e. Detector mode = Peak
 - f. Trace = Max hold
 - g. Sweep = auto
- e) Measure the freq different of two frequencies that were attenuated 20dB from peak of the emission & record the frequency difference as the emission bandwidth.
- f) Save the plot result from spectrum analyzer screen.
- g) Repeat above procedure with other different mode of operation.

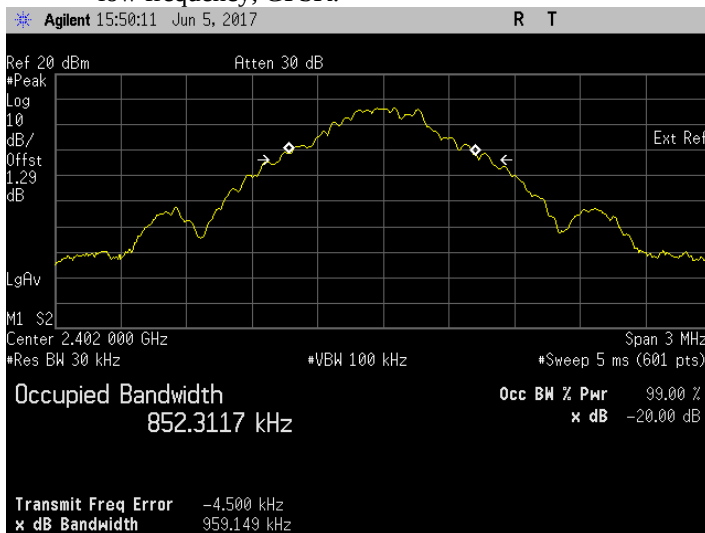
6.2.2. Test Limits:

Frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater.

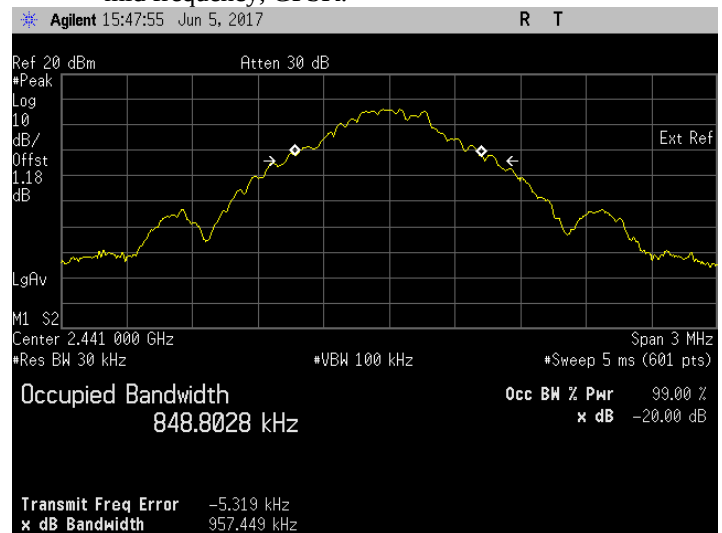
6.2.3. Test Data:

Test Conditions		Test Frequency TX (GHz)	Results (MHz)		
Modulation Type	Voltage(V)		20dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Status
GFSK	3.70	2.4020	0.959	0.8523	Pass
		2.4410	0.957	0.8488	Pass
		2.4800	0.958	0.8487	Pass
Pi/4 DQPSK	3.70	2.4020	1.322	1.1740	Pass
		2.4410	1.321	1.1742	Pass
		2.4800	1.320	1.1738	Pass
8DPSK	3.70	2.4020	1.311	1.1786	Pass
		2.4410	1.310	1.1783	Pass
		2.4800	1.311	1.1750	Pass

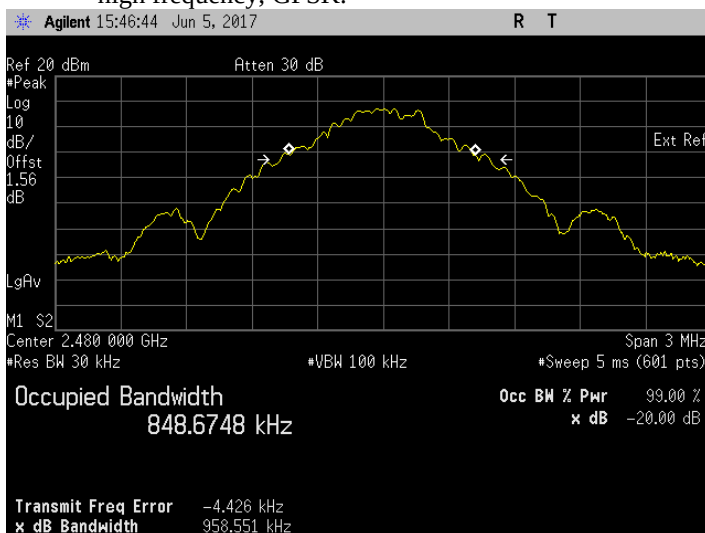
- i. The 20 dB BW & occupied bandwidth test with result at low frequency, GFSK.



- ii. The 20 dB BW & occupied bandwidth test with result at mid frequency, GFSK.



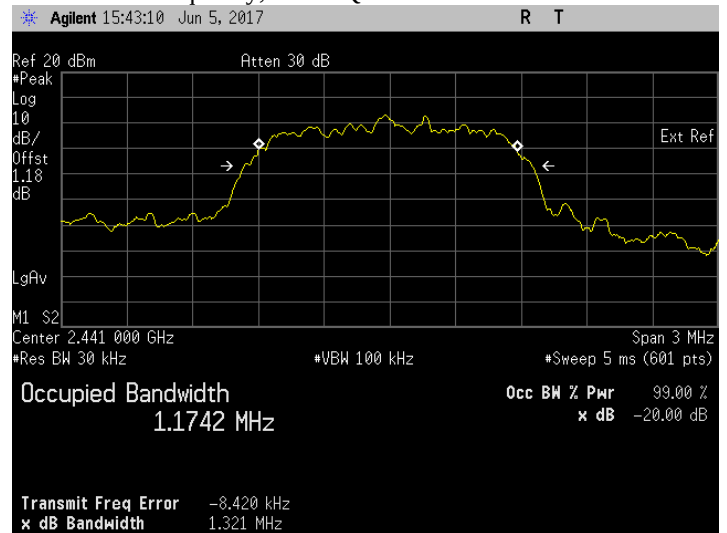
- iii. The 20 dB BW & occupied bandwidth test with result at high frequency, GFSK.



- i. The 20 dB BW & occupied bandwidth test with result at low frequency, Pi/4 DQPSK.



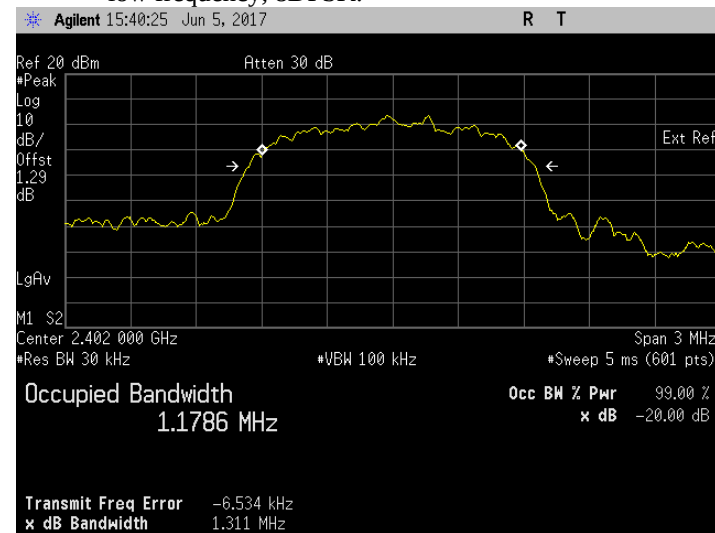
- ii. The 20 dB BW & occupied bandwidth test with result at mid frequency, Pi/4 DQPSK.



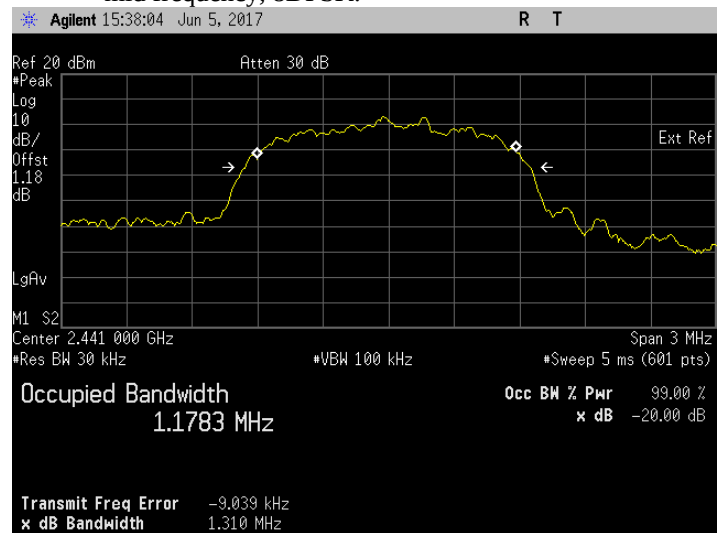
- iii. The 20 dB BW & occupied bandwidth test with result at high frequency, Pi/4 DQPSK.



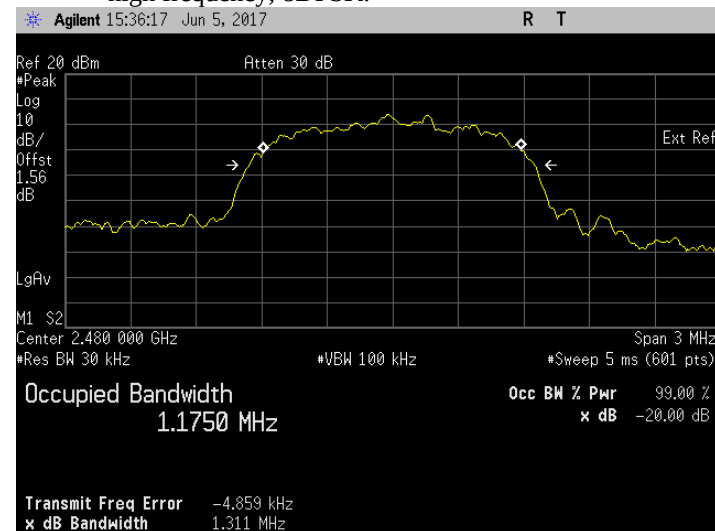
- i. The 20 dB BW & occupied bandwidth test with result at low frequency, 8DPSK.



- ii. The 20 dB BW & occupied bandwidth test with result at mid frequency, 8DPSK.

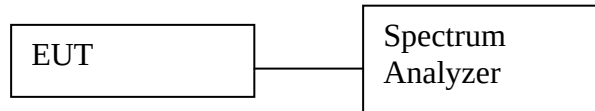


- iii. The 20 dB BW & occupied bandwidth test with result at high frequency, 8DPSK.



6.3. Band-edge Conducted Spurious Emission

6.3.1. Test Setup



- a) Check and ensure the spectrum analyzer well calibrate.
- b) Turn on the EUT and keep the EUT in hopping mode.
- c) Connect EUT's antenna terminal to spectrum analyzer with a low loss cable.
- d) Setting of Spectrum analyzer :
 - a. RBW = 100 kHz
 - b. VBW = 300 kHz
 - c. SPAN = 4 MHz (Low channel) or 6MHz(High Channel)
 - d. Detector mode = Peak
 - e. AMPLITUDE → Scale/Div = 10 dB
 - f. Trace = Max hold
 - g. Sweep = auto
- e) Measure the captured band edge emission result and recording the plot.
- f) Repeat above on EUT with hopping disable.
- g) Repeat above procedure with other different test frequency.

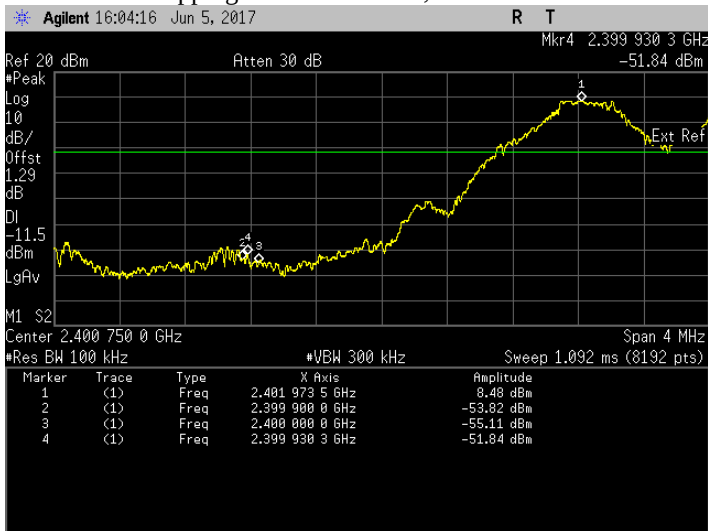
6.3.2. Test Limits

Normal Condition (25 ° C)
Shall be at least 20 dB below the peak power.

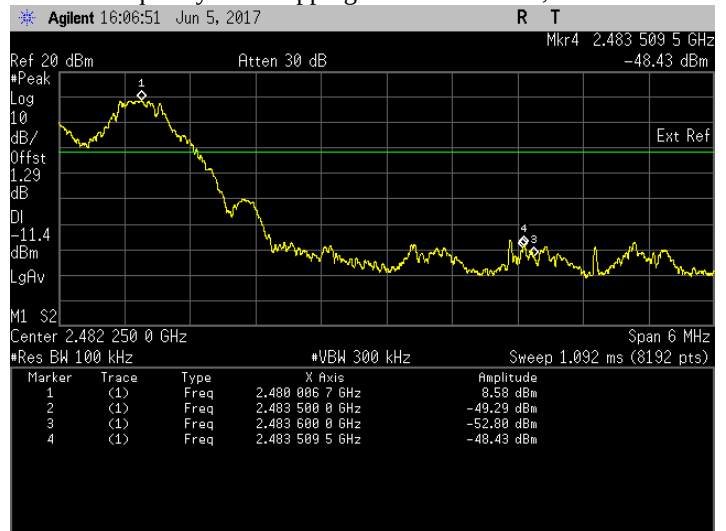
6.3.3. Test Result

Test Conditions		Hopping Method	Test Frequency(GHz)	Results	
Modulation	Voltage(V)			dB	Status
GFSK	3.70	Enabled (continuously)	2.4020	60.32	Pass
			2.4800	57.01	Pass
		Disabled (constantly)	2.4020	62.19	Pass
			2.4800	64.26	Pass
Pi/4 DQPSK	3.70	Enabled (continuously)	2.4020	55.68	Pass
			2.4800	64.99	Pass
		Disabled (constantly)	2.4020	53.85	Pass
			2.4800	59.83	Pass
8 DPSK	3.70	Enabled (continuously)	2.4020	52.38	Pass
			2.4800	58.14	Pass
		Disabled (constantly)	2.4020	52.52	Pass
			2.4800	58.48	Pass

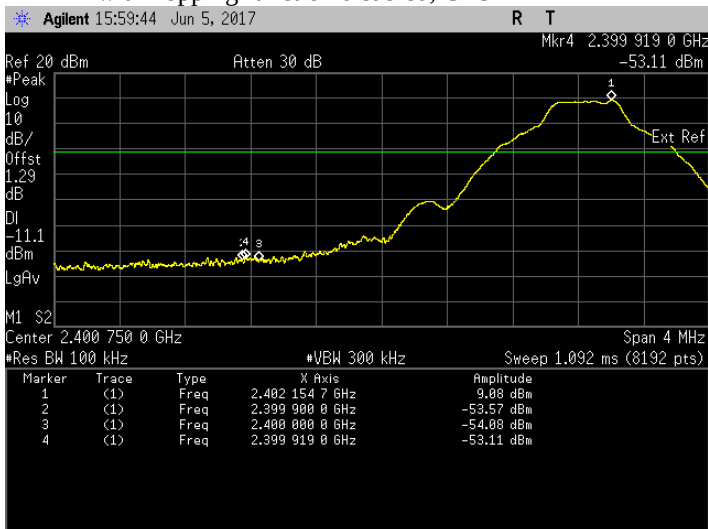
i. The highest band edge emission at low carrier frequency with hopping function enabled, GFSK



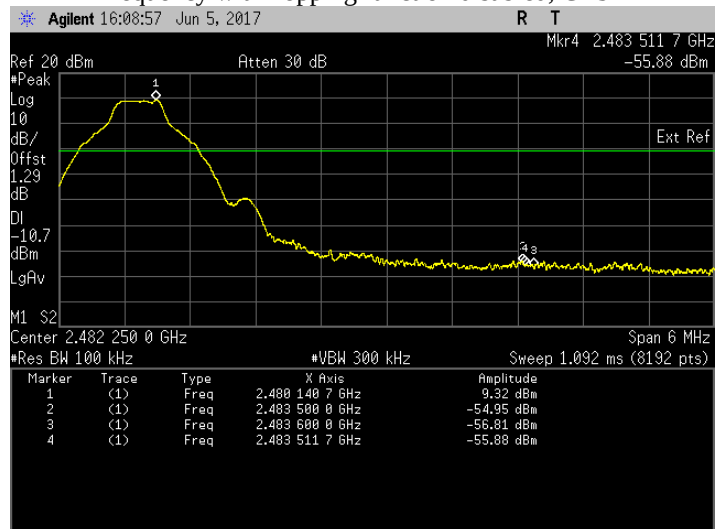
ii. The highest band edge emission at high carrier frequency with hopping function enabled, GFSK



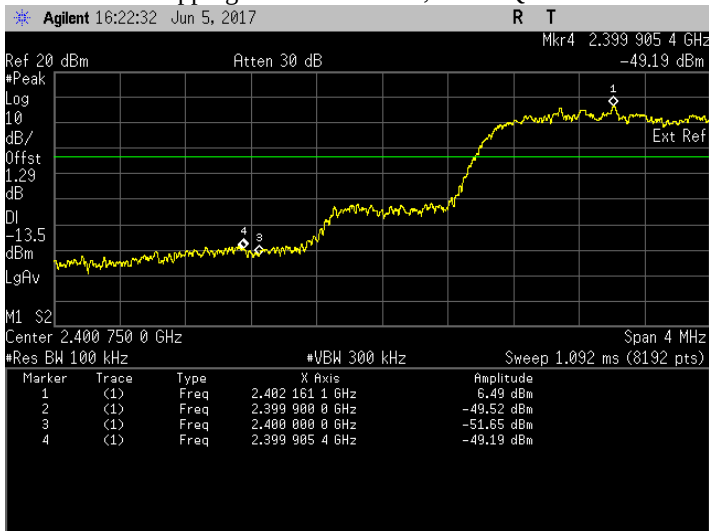
iii. The highest band edge emission at low carrier frequency with hopping function disabled, GFSK



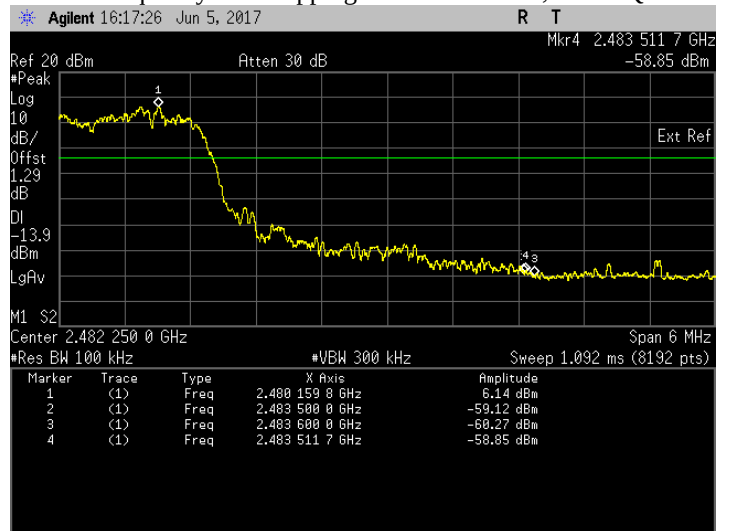
iv. The highest band edge emission at high carrier frequency with hopping function disabled, GFSK



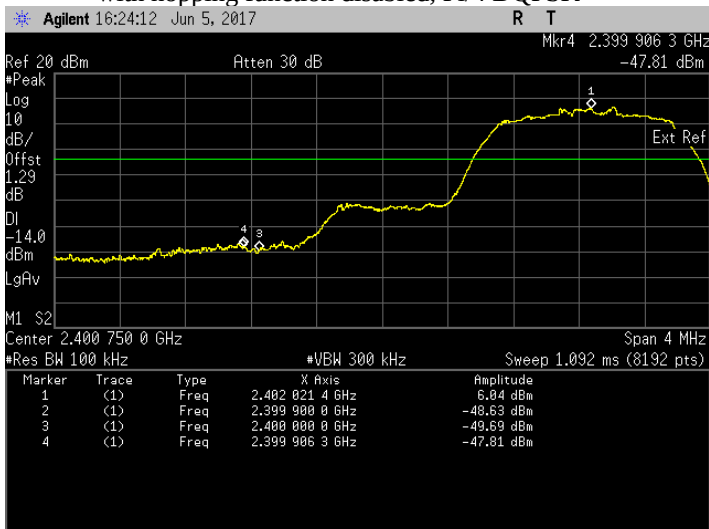
i. The highest band edge emission at low carrier frequency with hopping function enabled, Pi/4 DQPSK



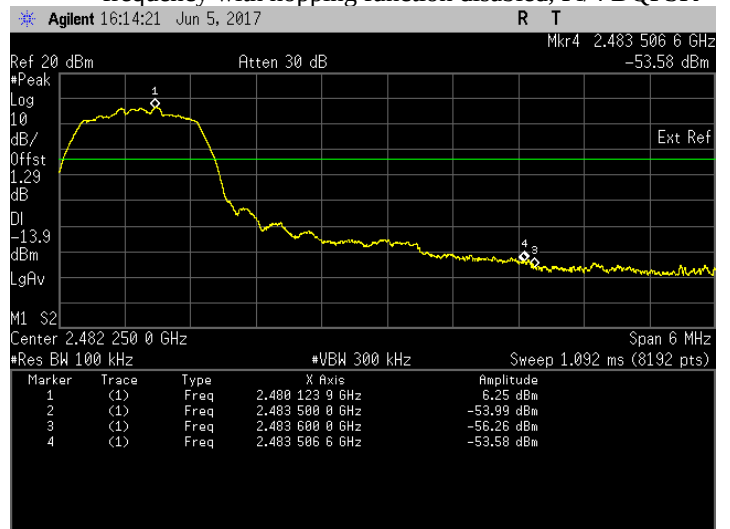
ii. The highest band edge emission at high carrier frequency with hopping function enabled, Pi/4 DQPSK



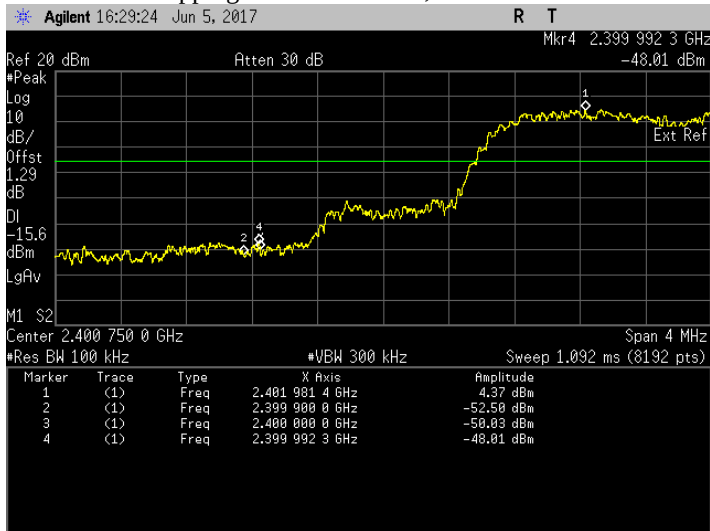
iii. The highest band edge emission at low carrier frequency with hopping function disabled, Pi/4 DQPSK



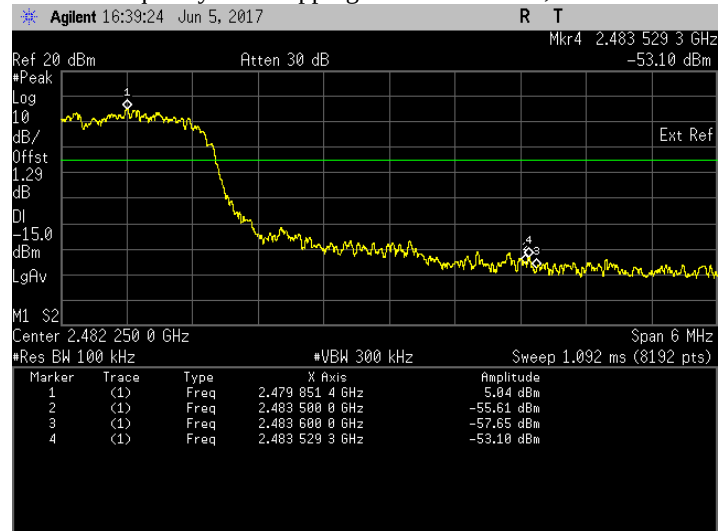
iv. The highest band edge emission at high carrier frequency with hopping function disabled, Pi/4 DQPSK



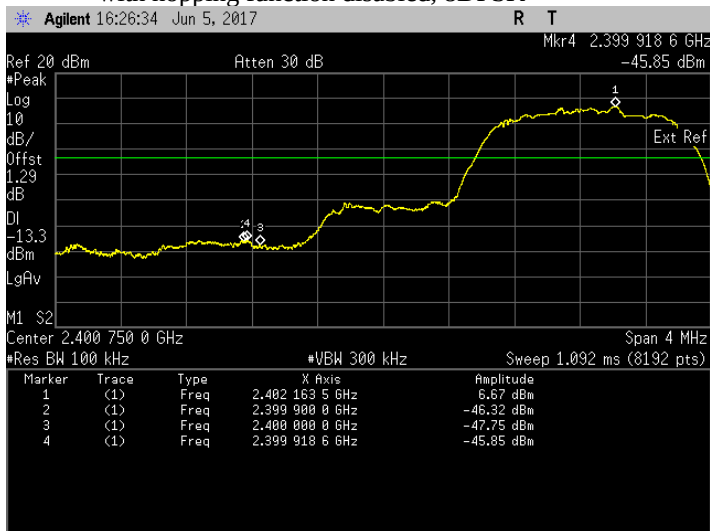
- i. The highest band edge emission at low carrier frequency with hopping function enabled, 8DPSK



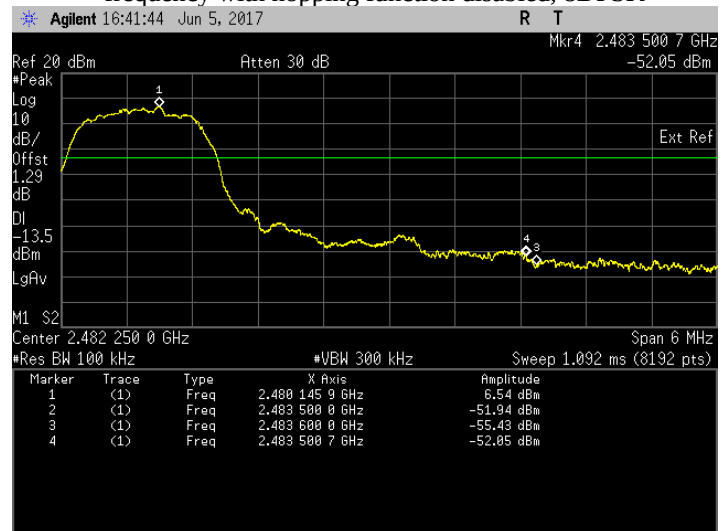
- ii. The highest band edge emission at high carrier frequency with hopping function enabled, 8DPSK



- iii. The highest band edge emission at low carrier frequency with hopping function disabled, 8DPSK

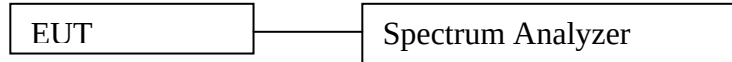


- iv. The highest band edge emission at high carrier frequency with hopping function disabled, 8DPSK



6.4. Dwell time on each channel

6.4.1. Test Setup



- a) Check and ensure the spectrum analyzer well calibrate.
- b) Turn on the EUT and keep the EUT in hopping mode.
- c) Connect EUT's antenna terminal to spectrum analyzer with a low loss cable.
- d) Setting of Spectrum analyzer :
 - a. RBW = 100 kHz
 - b. VBW = 300 kHz
 - c. SPAN = Zero SPAN, center on hopping frequency
 - d. Detector mode = Peak
 - e. Trace = Max hold
 - f. Sweep time = 5second
 - g. Sweep = Single
- e) Measure total numbers of transmissions occur in 5 second and save the plot.
- f) Change the setting of spectrum analyzer :
 - a. RBW = 100 kHz
 - b. VBW = 300 kHz
 - c. Sweep time = sufficient to capture dwell time for 1 transmission
 - d. Sweep = Single
- g) Measure dwell time for 1 transmission and save the plot.
- h) Calculate accumulate dwell time in a given period equal to number of hopping frequencies x 0.4
- i) Repeat above procedure with other different mode of operation.

6.4.2. Test Limits:

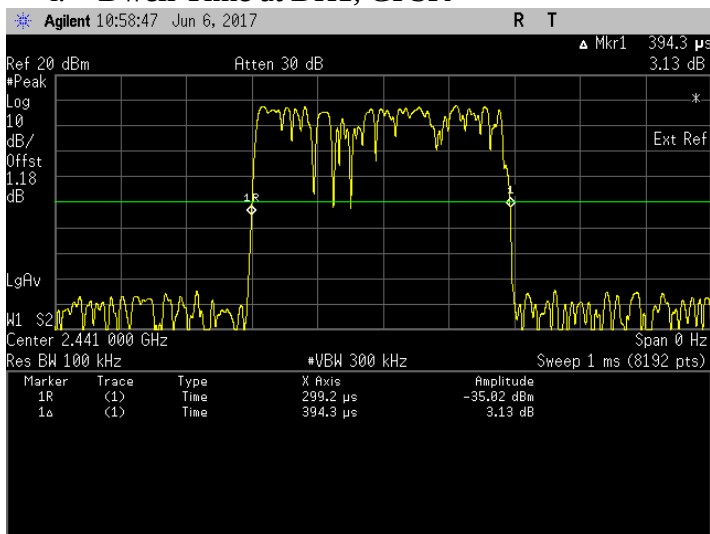
Normal Condition (25 ° C)
≤ 400ms

6.4.3. Test Result

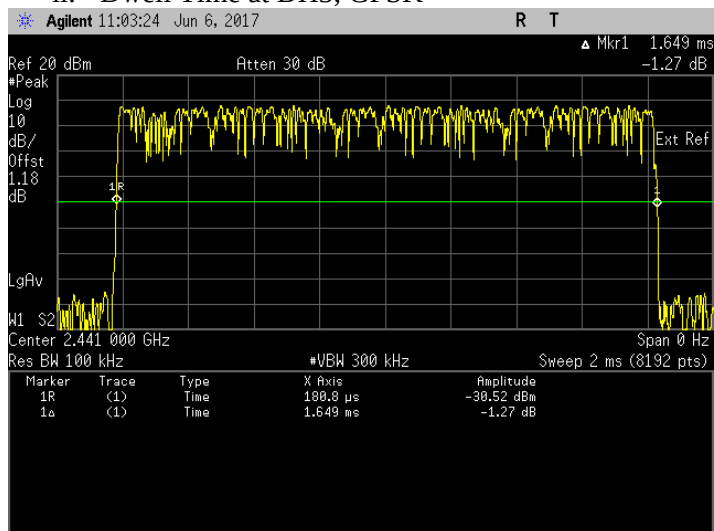
Test Conditions			Data Package	Results			
Modulation	Voltage (V)	Test Frequency (GHz)		Hops/s (a)	Dwell time in one transmission (b) (msec)	Total accumulate dwell time in 31.6s. (c) (msec)	Status
GFSK	7.50	2.4410	DH1	1600/(2*79)	0.3943	126.176	Pass
			DH3	1600/(4*79)	1.6490	263.840	Pass
			DH5	1600/(6*79)	2.8990	309.227	Pass
Pi/4 DQPSK	7.50		DH1	1600/(2*79)	0.3994	127.808	Pass
			DH3	1600/(4*79)	1.6490	263.840	Pass
			DH5	1600/(6*79)	2.9000	309.333	Pass
8 DPSK	7.50		DH1	1600/(2*79)	0.3994	127.808	Pass
			DH3	1600/(4*79)	1.6490	263.840	Pass
			DH5	1600/(6*79)	2.8990	309.227	Pass

****Note:** Total dwell time (c) = (a) x (b) x 31.6s

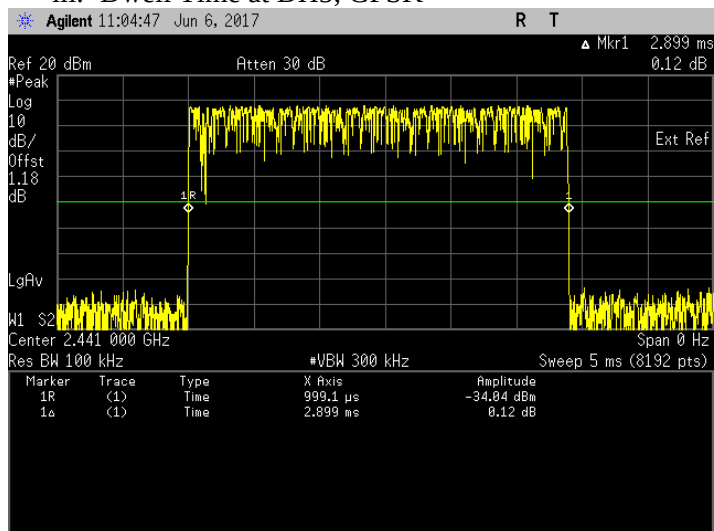
i. Dwell Time at DH1, GFSK



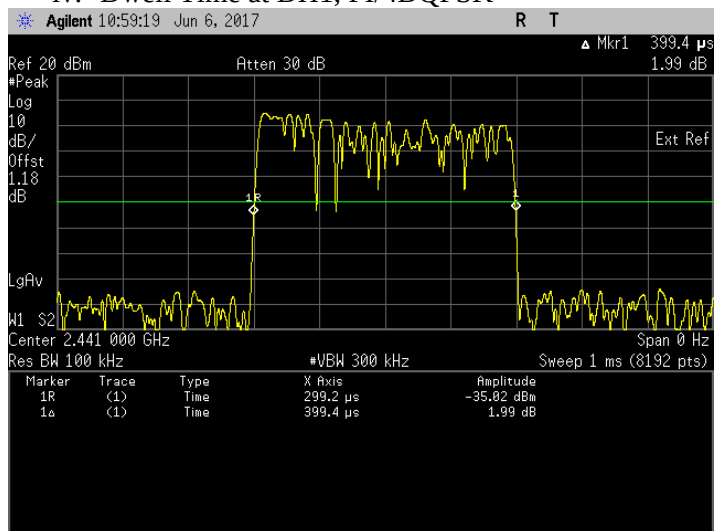
ii. Dwell Time at DH3, GFSK



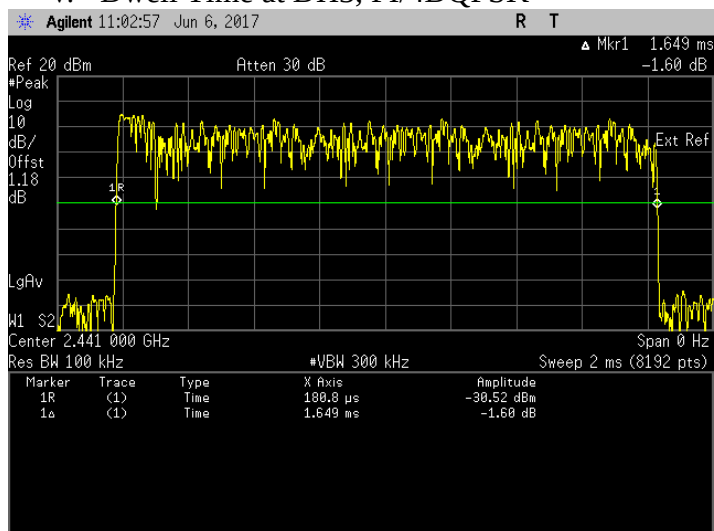
iii. Dwell Time at DH5, GFSK



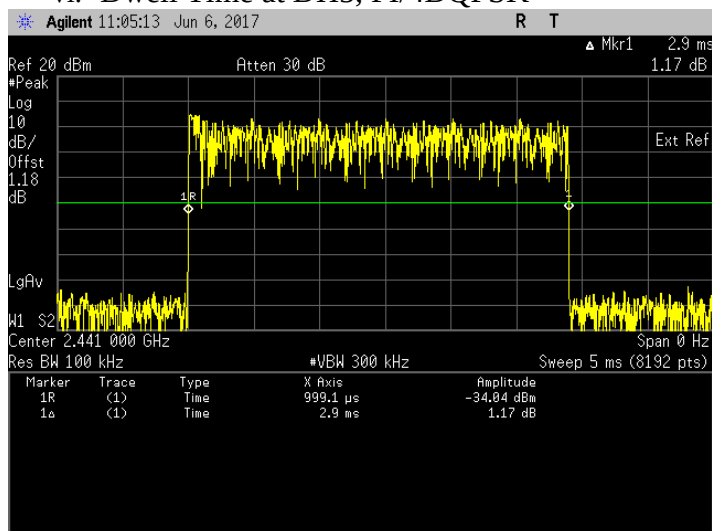
iv. Dwell Time at DH1, PI/4DQPSK



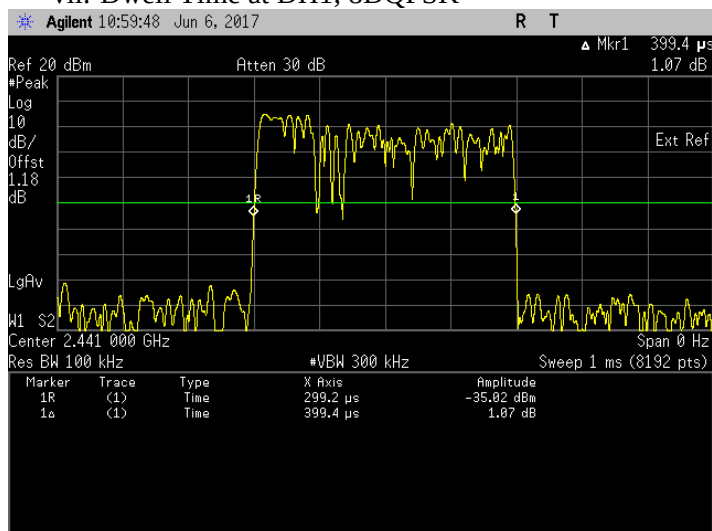
v. Dwell Time at DH3, PI/4DQPSK



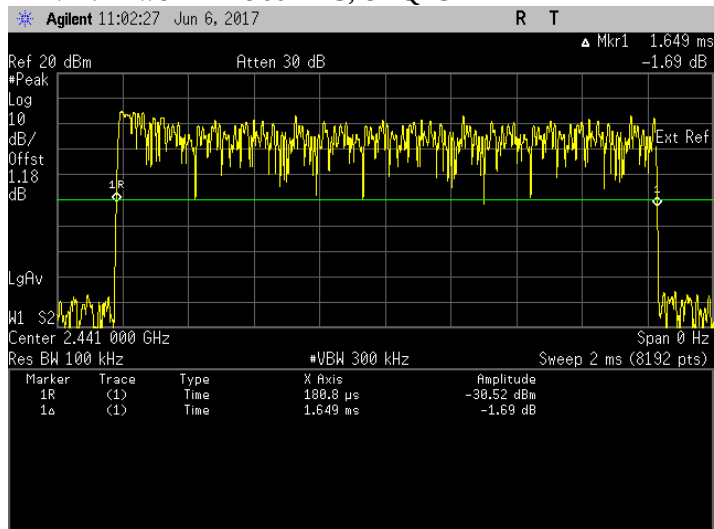
vi. Dwell Time at DH5, PI/4DQPSK



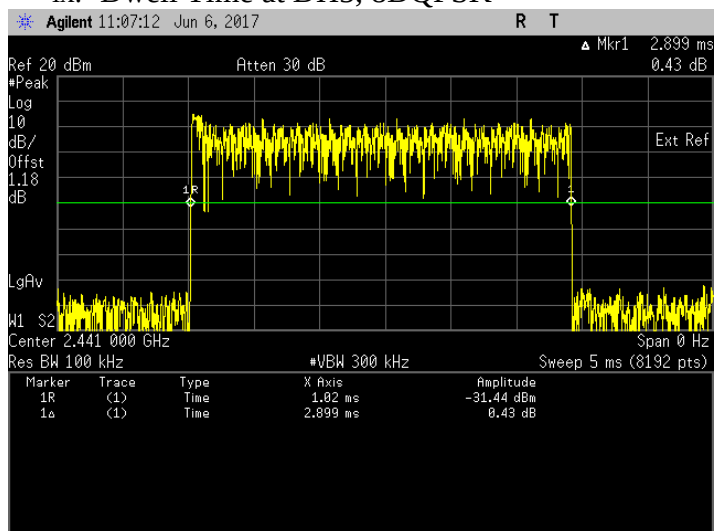
vii. Dwell Time at DH1, 8DQPSK



viii. Dwell Time at DH3, 8DQPSK

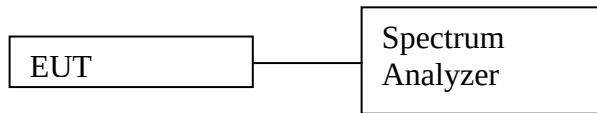


ix. Dwell Time at DH5, 8DQPSK



6.5. Number of hopping Frequency

6.5.1. Test Setup



- a) Check and ensure the spectrum analyzer well calibrate.
- b) Turn on the EUT and keep the EUT in hopping mode.
- c) Connect EUT's antenna terminal to spectrum analyzer with a low loss cable.
- d) Setting of Spectrum analyzer :
 - a. RBW = 300 kHz
 - b. VBW = 300 kHz
 - c. Detector mode = Peak
 - d. Trace = Max hold
- e) Allow the trace to stabilized & save the plot result from spectrum analyzer screen.
- f) Count number of channel frequency in the operating.
- g) Repeat above procedure for other test frequency.

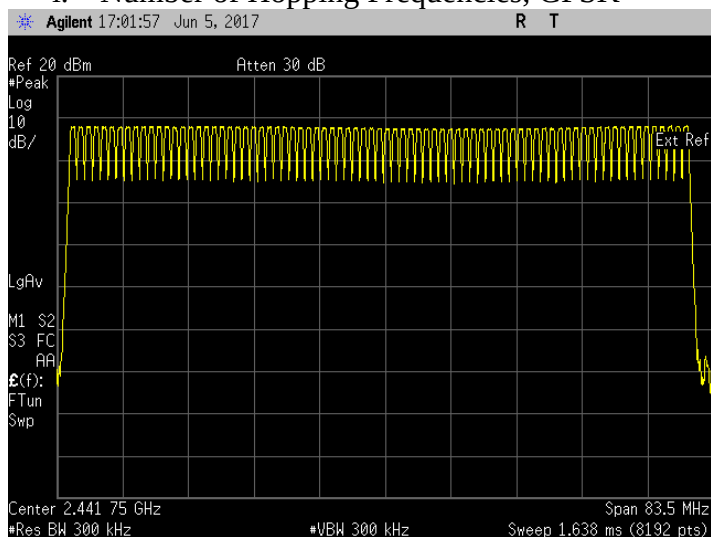
6.5.2. Test Limits:

Normal Condition (25 ° C)
≥ 15

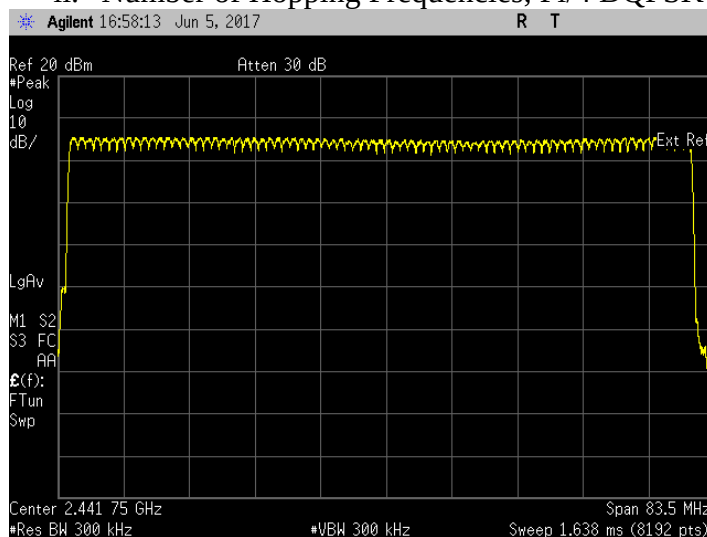
6.5.3. Test Result

Test Conditions		Sweep Range (GHz)	Results	
Modulation	Voltage(V)		No. of Hopping Frequencies	Status
GFSK	3.70	2.4000-2.4835	79	Pass
Pi/4DQPSK	3.70	2.4000-2.4835	79	Pass
8DPSK	3.70	2.4000-2.4835	79	Pass

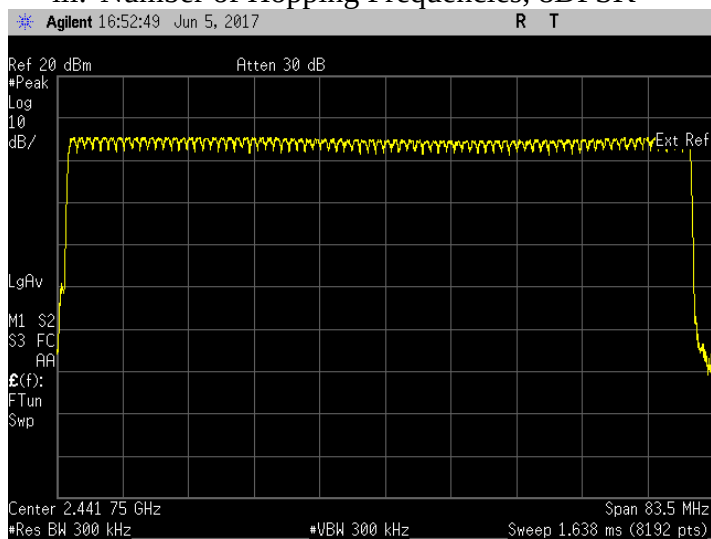
i. Number of Hopping Frequencies, GFSK



ii. Number of Hopping Frequencies, Pi/4 DQPSK

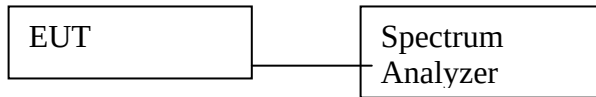


iii. Number of Hopping Frequencies, 8DPSK



6.6. Channel Separation

6.6.1. Test Setup



- Check and ensure the spectrum analyzer well calibrate.
- Turn on the EUT and keep the EUT in hopping mode.
- Connect EUT's antenna terminal to spectrum analyzer with a low loss cable.
- Setting of Spectrum analyzer :
 - RBW = 300 kHz
 - VBW = 300 kHz
 - SPAN = 3 MHz, center on test frequency
 - AMPLITUDE → Scale/Div = 1 dB
 - Detector mode = Peak
 - Trace = Max hold
 - Sweep = auto
- Measure the frequency different of these two adjacent channels with marker delta function & record the measurement results.
- Repeat above procedure with other different mode of operation.

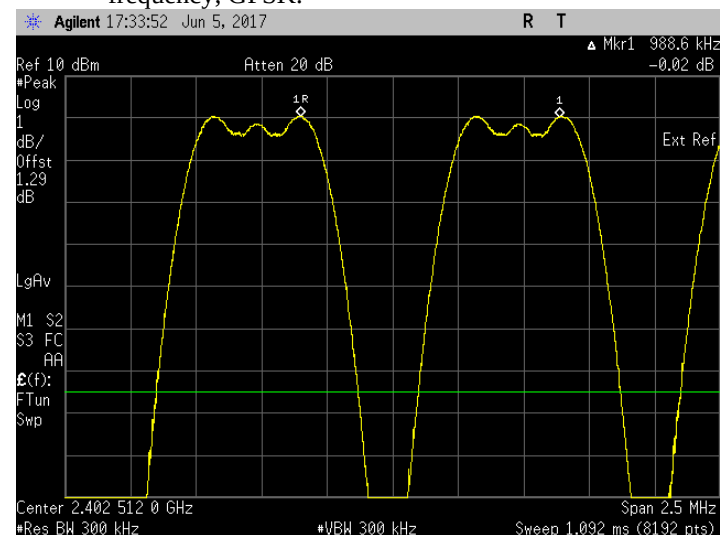
6.6.2. Test Limits:

Normal Condition (25 ° C)
≥ 2/3 of 20dB Bandwidth

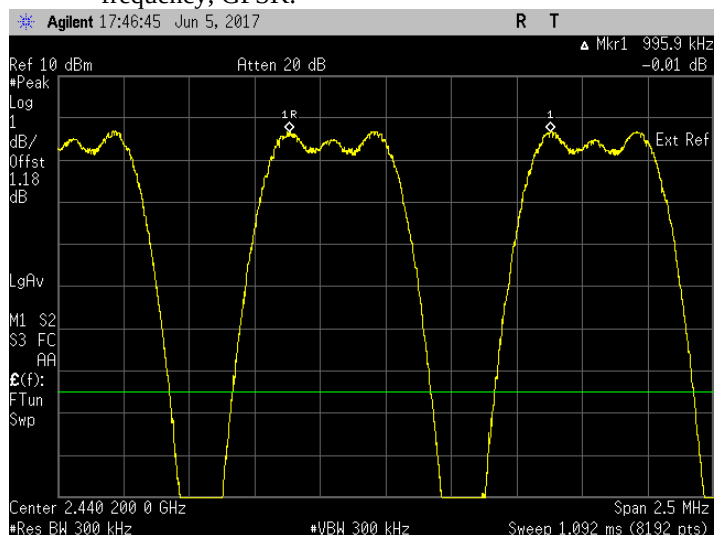
6.6.3. Test Result

Test Conditions		Test Frequency (GHz)	Results			
Modulation	Voltage(V)		Test Data Adjacent Channel Separation (MHz)	20dB Bandwidth (MHz)	Min Limit = 2/3 of 20dB Bandwidth (kHz)	Status
GFSK	3.70	2.4020	0.9886	0.959	639.333	Pass
		2.4410	0.9959	0.957	638.000	Pass
		2.4800	0.9941	0.958	638.667	Pass
Pi/4DQPSK	3.70	2.4020	1.0057	1.322	881.333	Pass
		2.4410	1.0127	1.321	880.667	Pass
		2.4800	0.9791	1.320	880.000	Pass
8DPSK	3.70	2.4020	0.9984	1.311	874.000	Pass
		2.4410	0.9971	1.310	873.333	Pass
		2.4800	1.0066	1.311	874.000	Pass

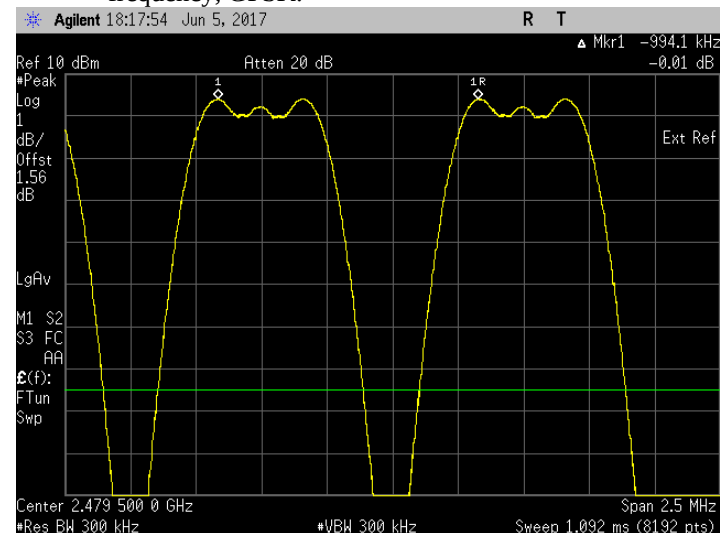
i. The Channel Separation test with result at low frequency, GFSK.



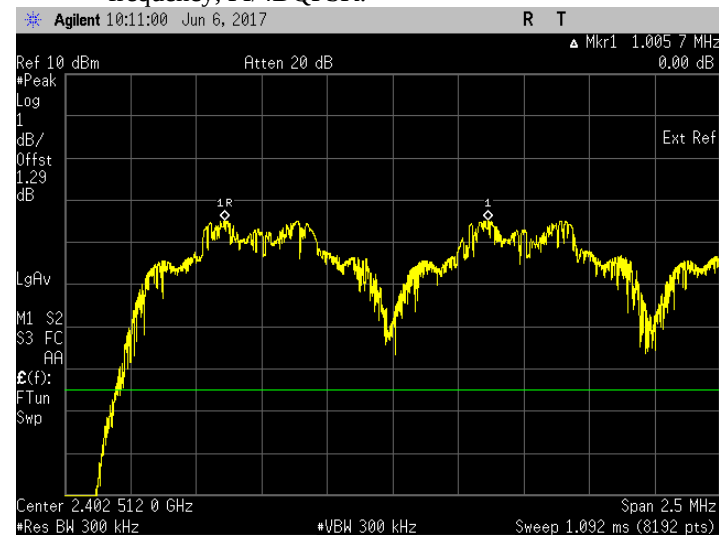
ii. The Channel Separation test with result at mid frequency, GFSK.



iii. The Channel Separation test with result at High frequency, GFSK.



i. The Channel Separation test with result at low frequency, PI/4DQPSK.



ii. The Channel Separation test with result at mid frequency, PI/4DQPSK.



iii. The Channel Separation test with result at High frequency, PI/4DQPSK.



i. The Channel Separation test with result at low frequency, 8DPSK.



ii. The Channel Separation test with result at mid frequency, 8DPSK.

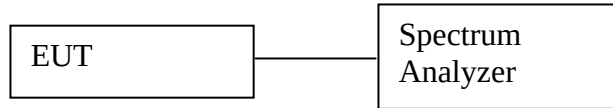


iii. The Channel Separation test with result at High frequency, 8DPSK.



6.7. Conducted Spurious Emission

6.7.1. Test Setup



- Check and ensure the spectrum analyzer well calibrate.
- Turn on the EUT and set EUT to transmit maximum data rate with hopping disable.
- Connect EUT's antenna terminal to spectrum analyzer with a low loss cable.
- Setting of Spectrum analyzer :
 - RBW = 100 kHz
 - VBW = 300 kHz
 - SPAN = Cover until 10th harmonic
 - Detector mode = Peak
 - AMPLITUDE → Scale/Div = 10 dB
 - Trace = Max hold
 - Sweep = auto
- Measure the captured spurious emission result and recording the plot.
- Repeat above procedure with other different mode of operation.

6.7.2. Test Limits:

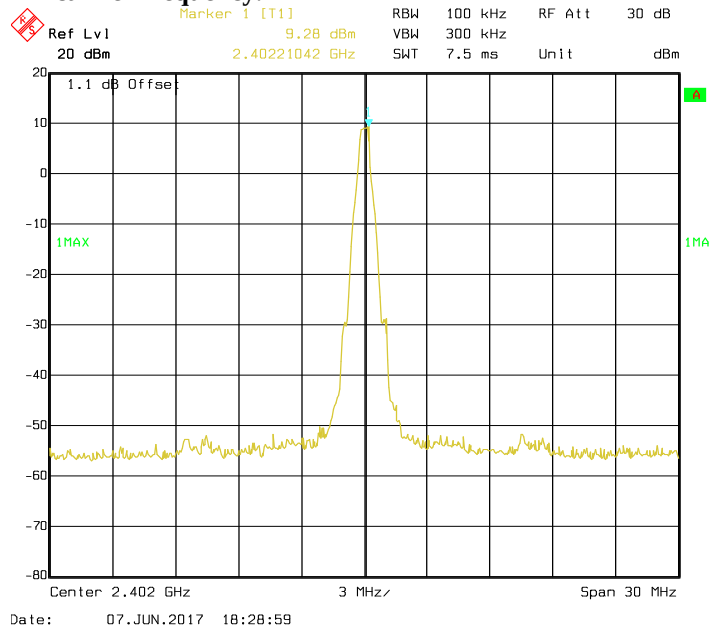
Normal Condition (25 ° C)
Shall be at least 20 dB below for peak power.

6.7.3. Test Data:

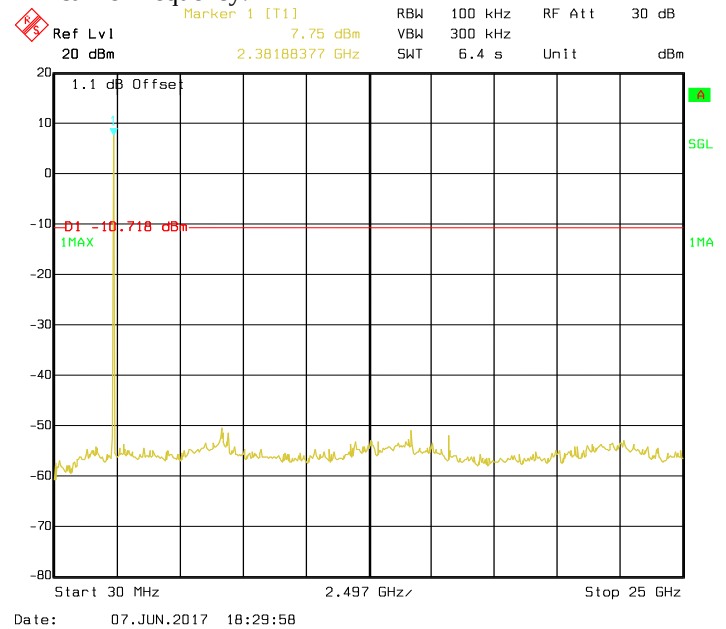
Test Conditions		Test Frequency (GHz)	Results
Modulation	Voltage(V)		Status
GFSK	3.70	2.4020	Pass
		2.4410	Pass
		2.4800	Pass
Pi/4DQPSK	3.70	2.4020	Pass
		2.4410	Pass
		2.4800	Pass
8DPSK	3.70	2.4020	Pass
		2.4410	Pass
		2.4800	Pass

GFSK Modulation:

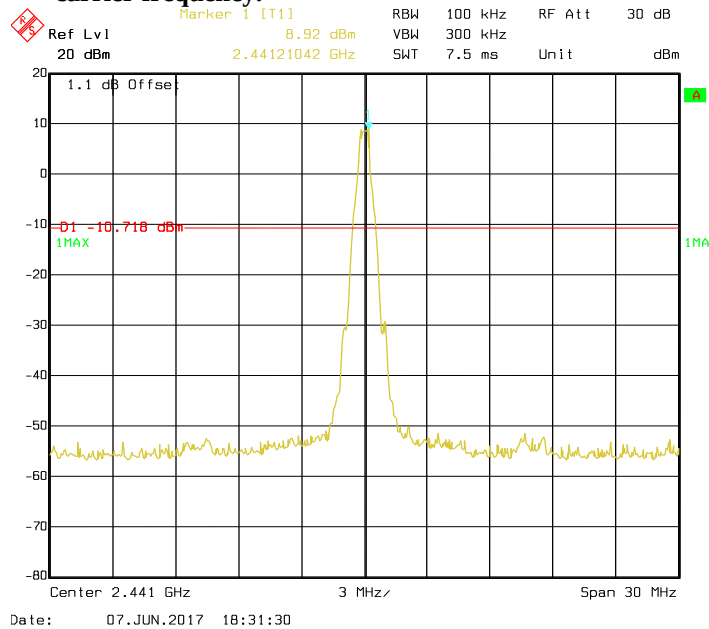
- The high emission level within the assigned band at low carrier frequency.



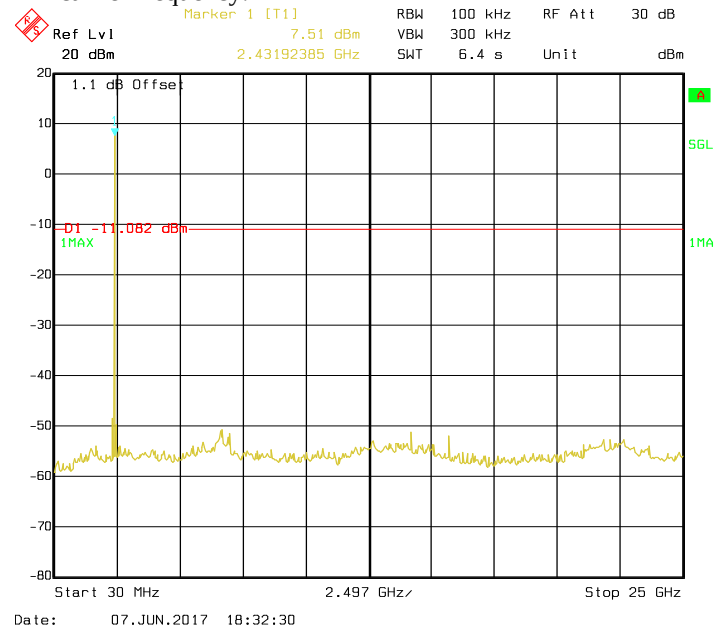
- Spurious emission measurement in 30MHz – 25GHz at low carrier frequency.



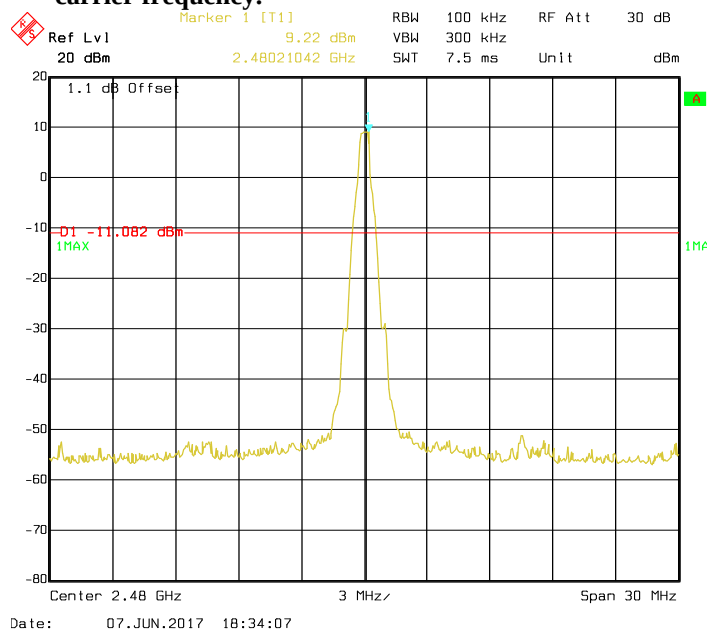
- The high emission level within the assigned band at mid carrier frequency.



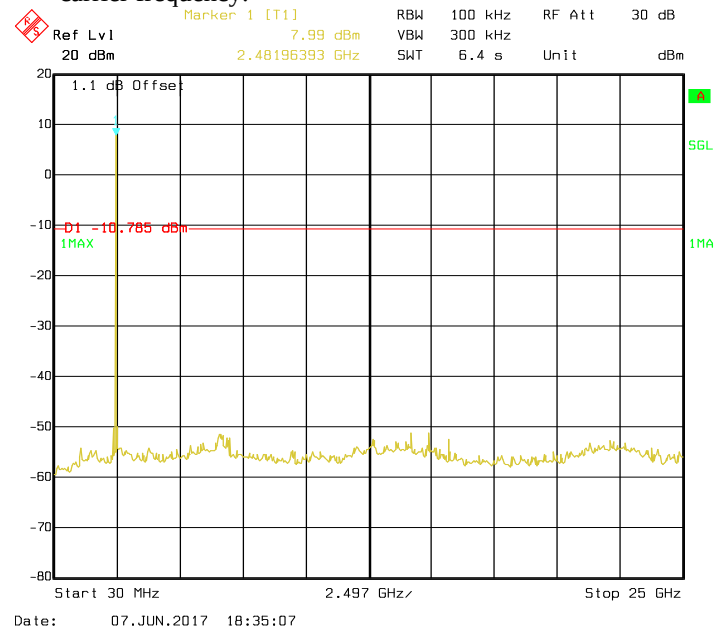
- Spurious emission measurement in 30MHz – 25GHz at mid carrier frequency.



- The high emission level within the assigned band at high carrier frequency.

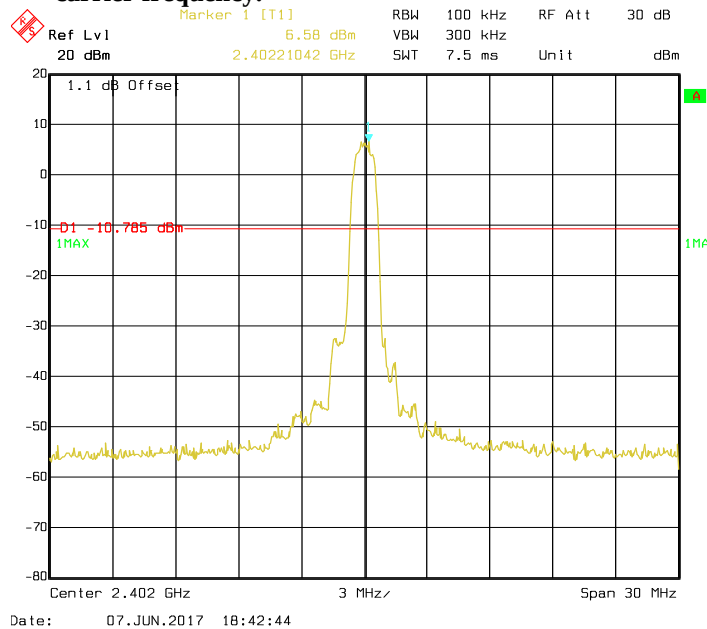


- Spurious emission measurement in 30MHz – 25GHz at high carrier frequency.

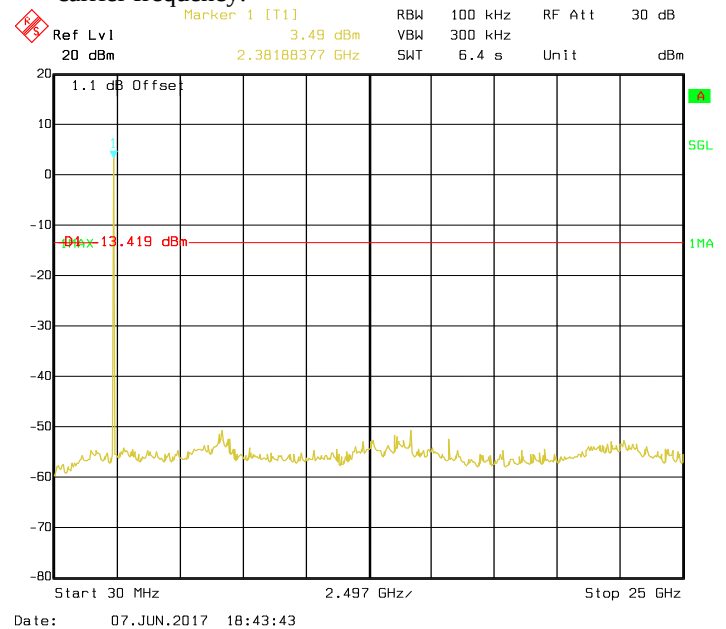


Pi/4 DQPSK Modulation:

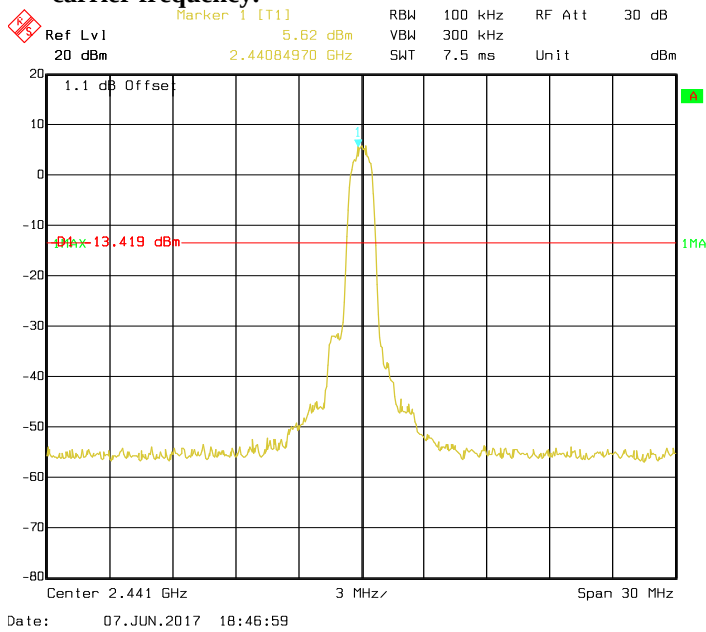
- i. The high emission level within the assigned band at low carrier frequency.



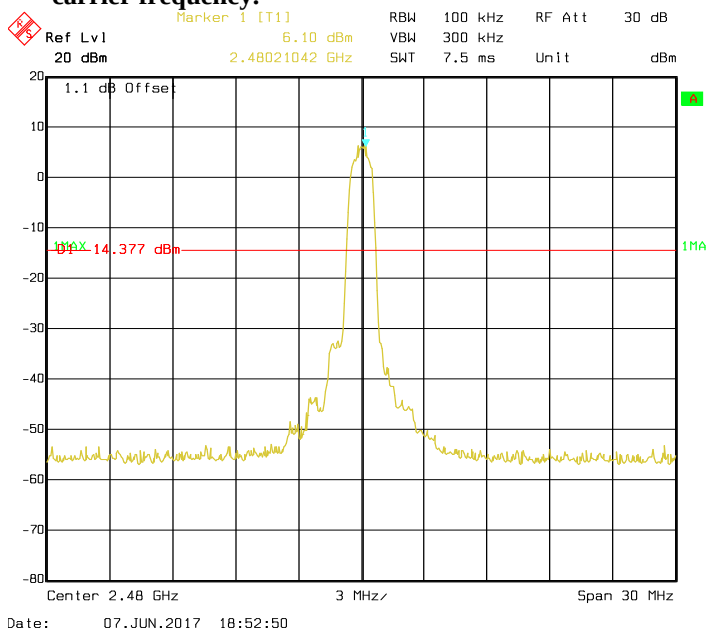
- ii. Spurious emission measurement in 30MHz – 25GHz at low carrier frequency.



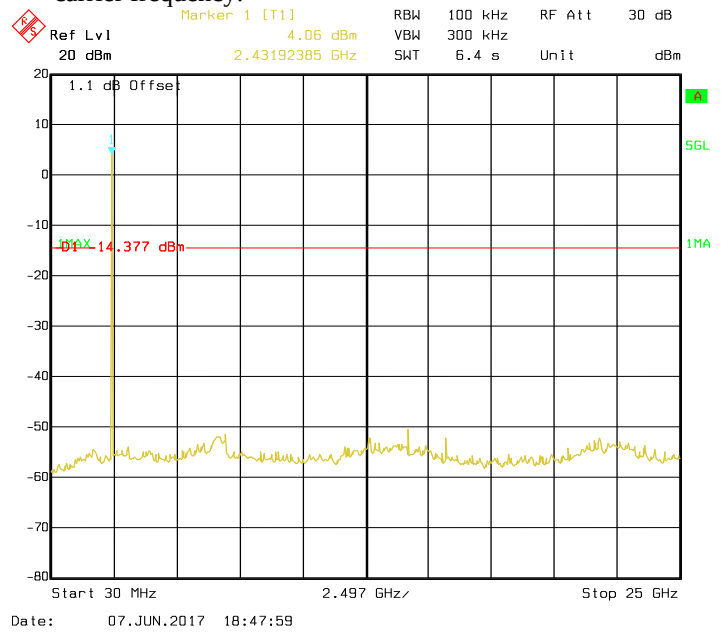
iii. The high emission level within the assigned band at mid carrier frequency.



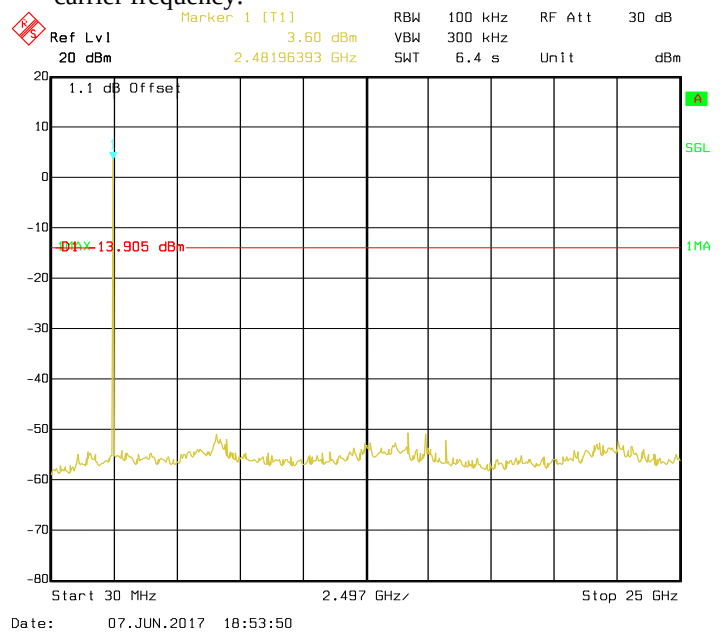
v. The high emission level within the assigned band at high carrier frequency.



iv. Spurious emission measurement in 30MHz – 25GHz at mid carrier frequency.

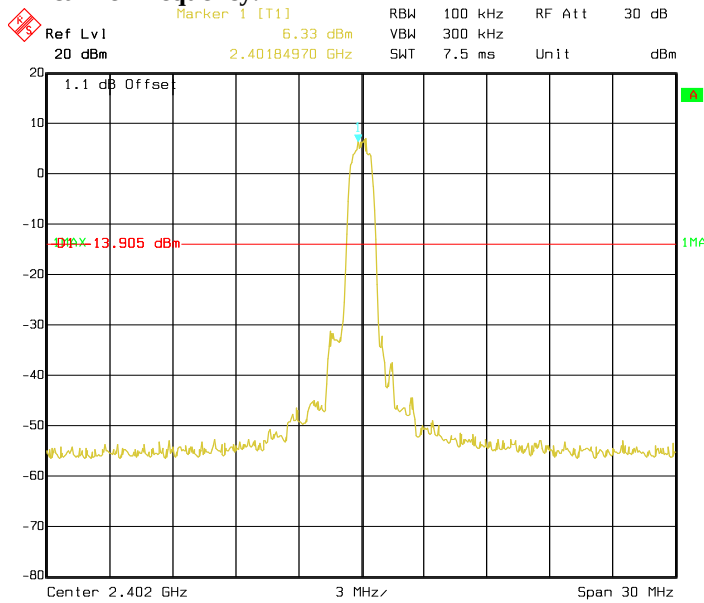


vi. Spurious emission measurement in 30MHz – 25GHz at high carrier frequency.



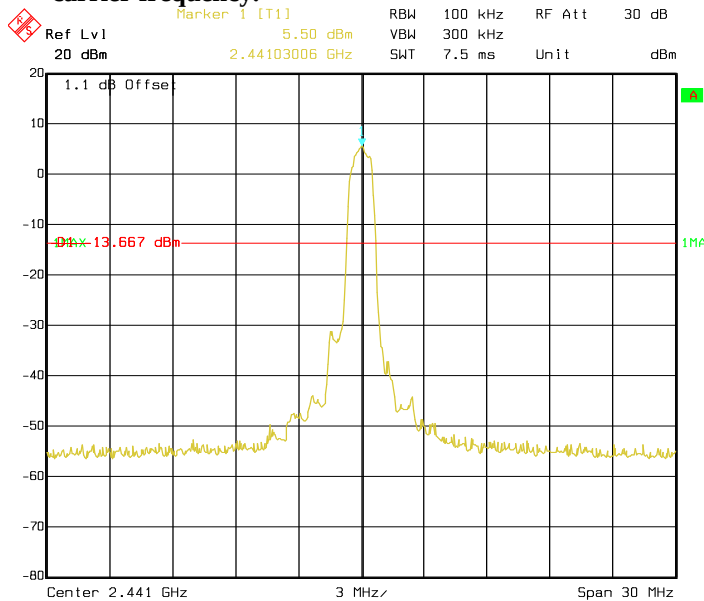
8DPSK Modulation:

i. The high emission level within the assigned band at low carrier frequency.



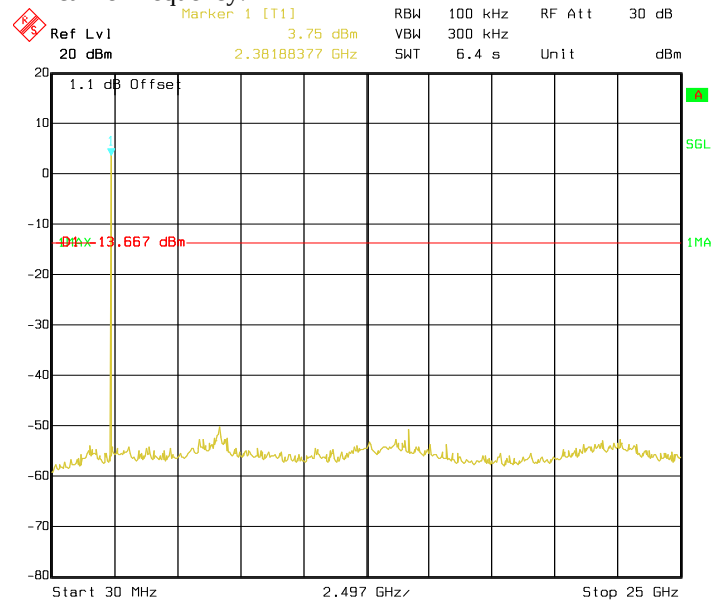
Date: 07.JUN.2017 19:05:17

iii. The high emission level within the assigned band at mid carrier frequency.



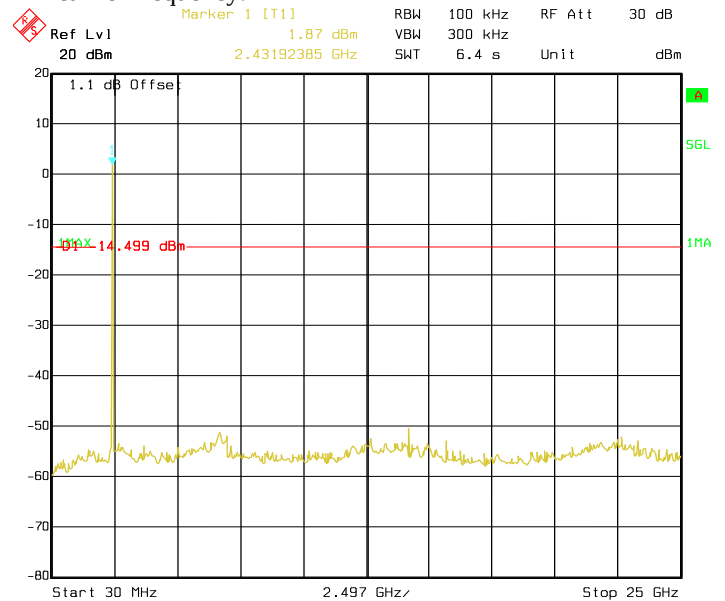
Date: 07.JUN.2017 19:08:53

ii. Spurious emission measurement in 30MHz – 25GHz at low carrier frequency.



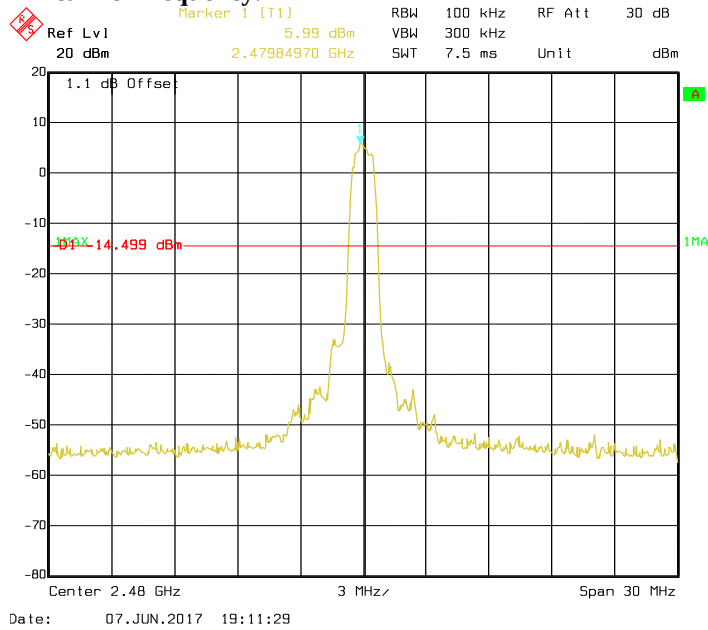
Date: 07.JUN.2017 19:06:16

iv. Spurious emission measurement in 30MHz – 25GHz at mid carrier frequency.

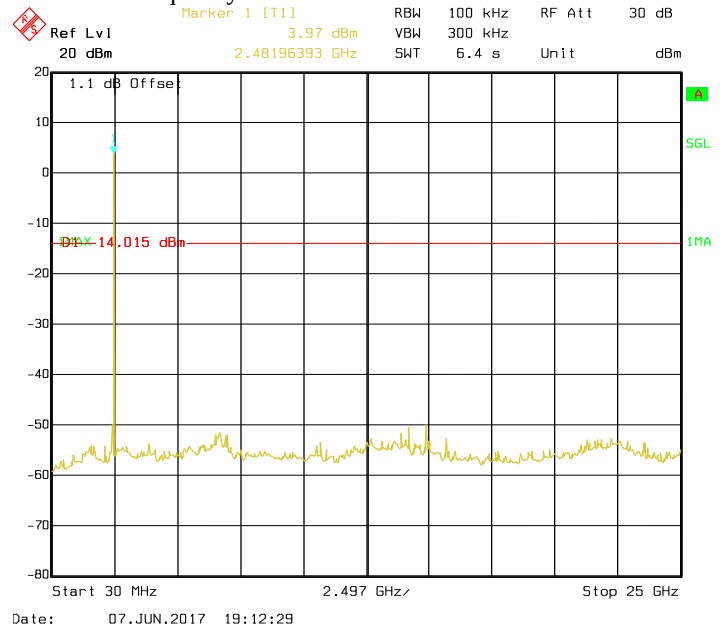


Date: 07.JUN.2017 19:09:53

v. The high emission level within the assigned band at high carrier frequency.

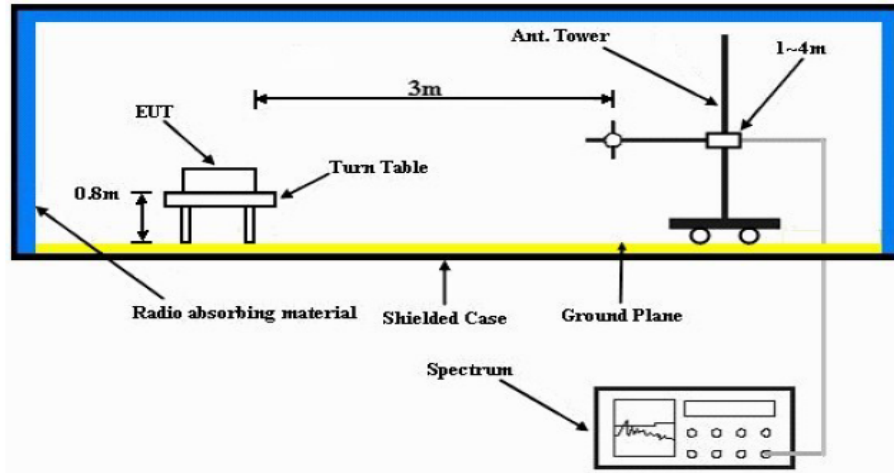


vi. Spurious emission measurement in 30MHz – 25GHz at high carrier frequency.



6.8. Radiated Emission within restricted Bands

6.8.1. Test Setup



- The EUT is placed on the top of a rotating table 0.8m above the ground (<1GHz) and 1.5m above the ground (>1GHz) at a 3m semi-anechoic chamber. The table is rotated 360 degrees to determine the position of the highest radiation.
- The EUT is set 3m away from the interference-receiving antenna, which is mounted on the top of a variable-height antenna tower.
- The antenna is Bilog/Horn antenna depend on which frequency range uses, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT is arranged to its worst case and then the antenna is tuned to heights from 1m to 4m and the rotatable table is turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system is set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- If the emission level of the EUT in peak mode is fall within the range of 10dB from the limit specified, the emissions would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. Otherwise, the testing could be stopped and the peak values of the EUT would be reported.

NOTE:

- The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi-peak detection at frequency below 1GHz.
- The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and video bandwidth is 3 MHz for Peak detection at frequency above 1 GHz.
- All modes of operation were investigated and the worst-case emissions are reported.

6.8.2. Test Limits:

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table. Other emissions shall be at least 20dB below the highest level of the desired power.

Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100**	3
88-216	150**	3
216-960	200**	3
Above 960	500	3

NOTE:

- The lower limit shall apply at the transition frequencies.
- Emission level (dBuV/m) = 20 log Emission level (uV/m).
- For frequencies above 1000 MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

Test: Bluetooth SAC Restricted Band Edge
Model Number: AAH88JCD9SA2AN **S/N: 130TTK0360** **EMC SR ID#: 06406-EMC-00002**
Battery: PMNN4468A **Accessory: NA**
Test Channel: Low **Test Frequency: 2402.0000 MHz** **Test Standard: ANSI C63.10-2013**
Worst Case Plane: Y-Plane (GFSK)

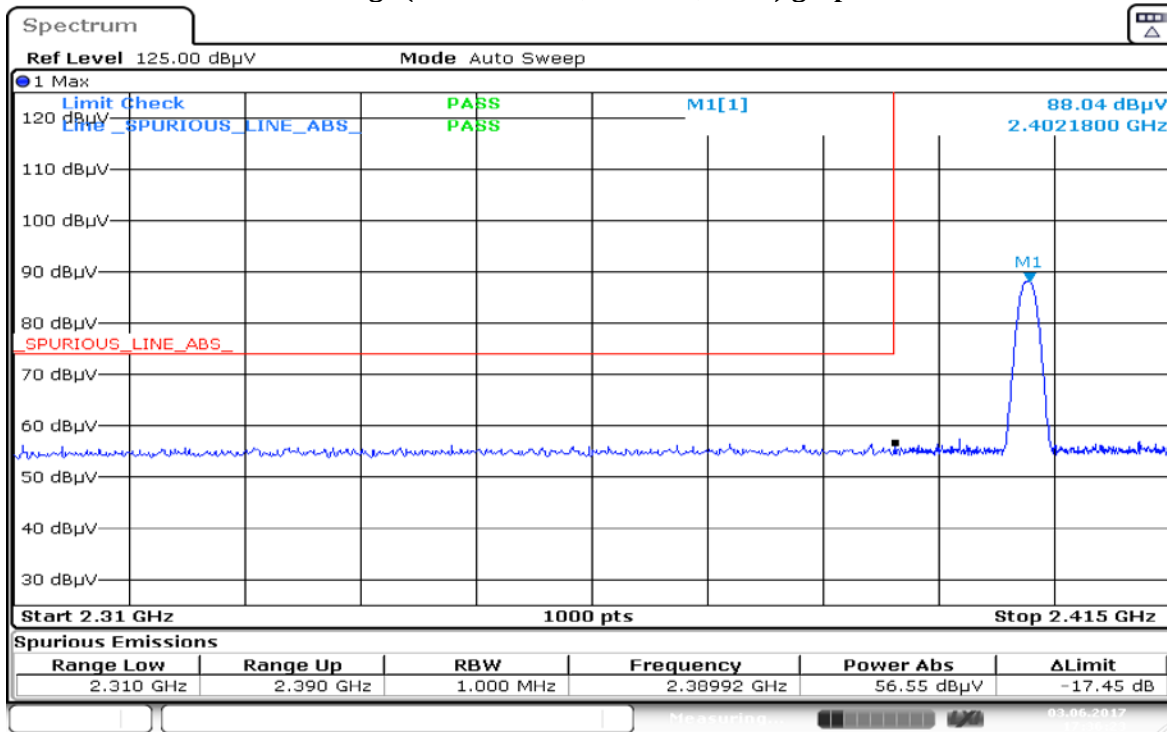
Vertical Radiated Emission Result

Horizontal Radiated Emission Result

Humidity (%): 70.2
Test Date: Sat, Jun 03, 2017
Duty Cycle (%): 77

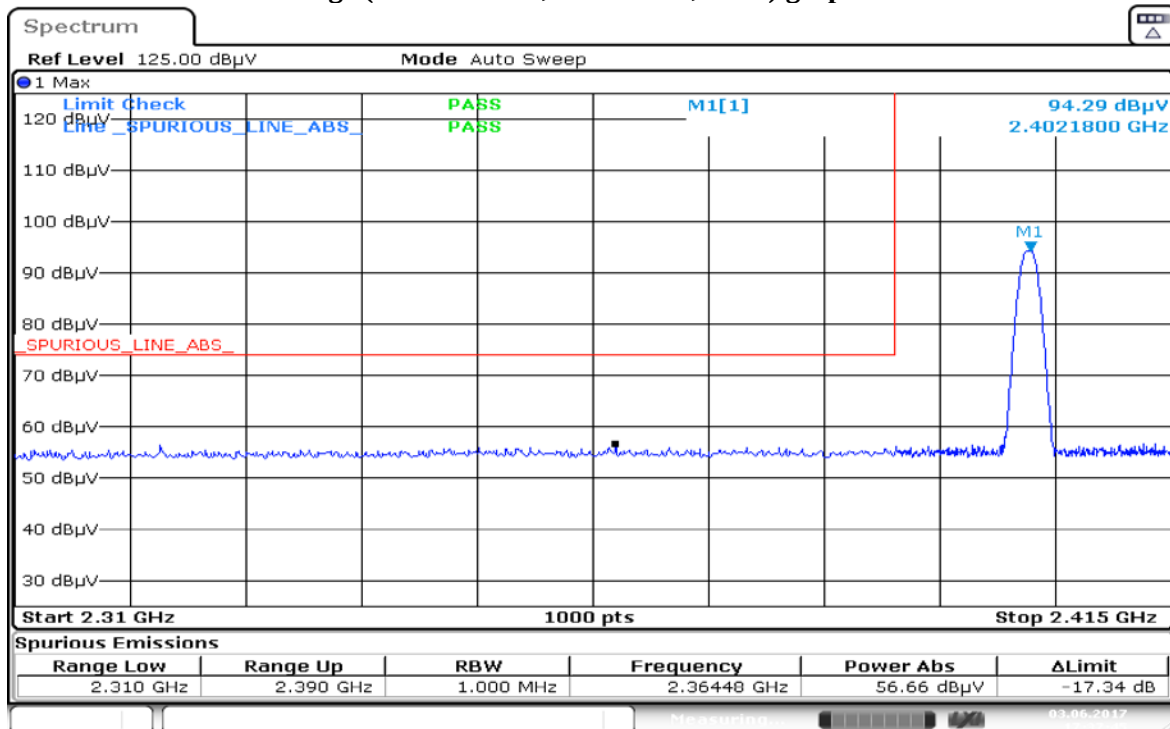
40

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



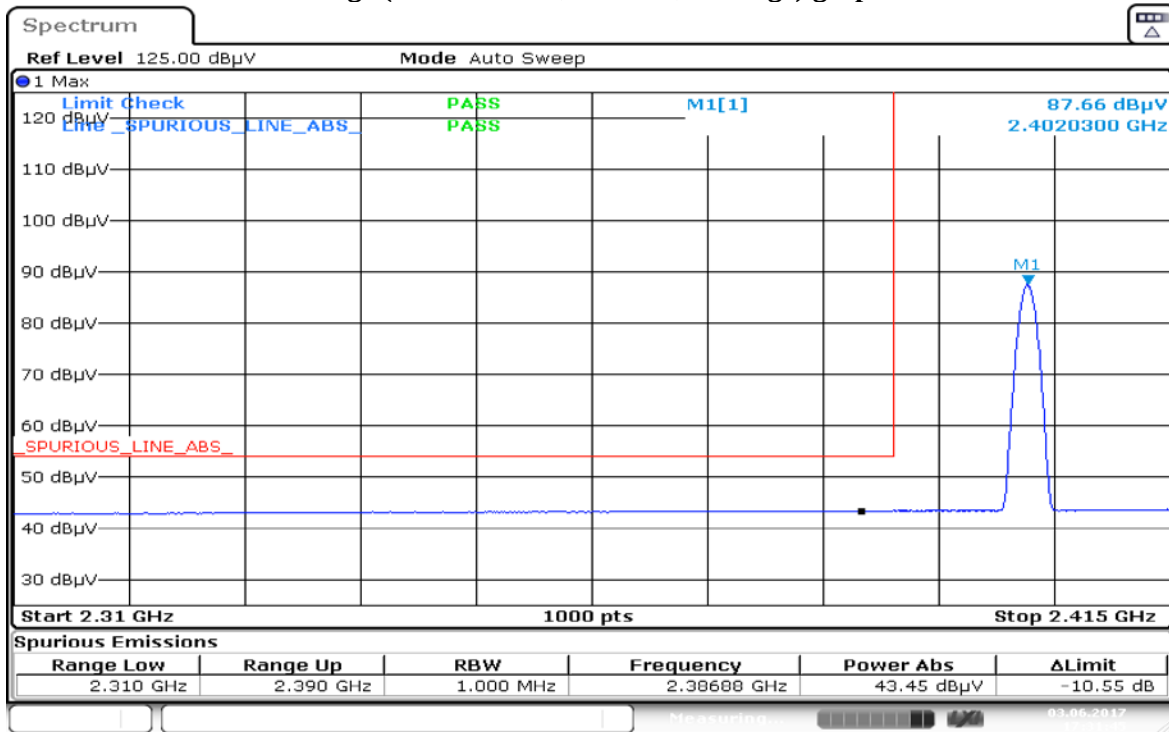
Date: 3.JUN.2017 17:36:23

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



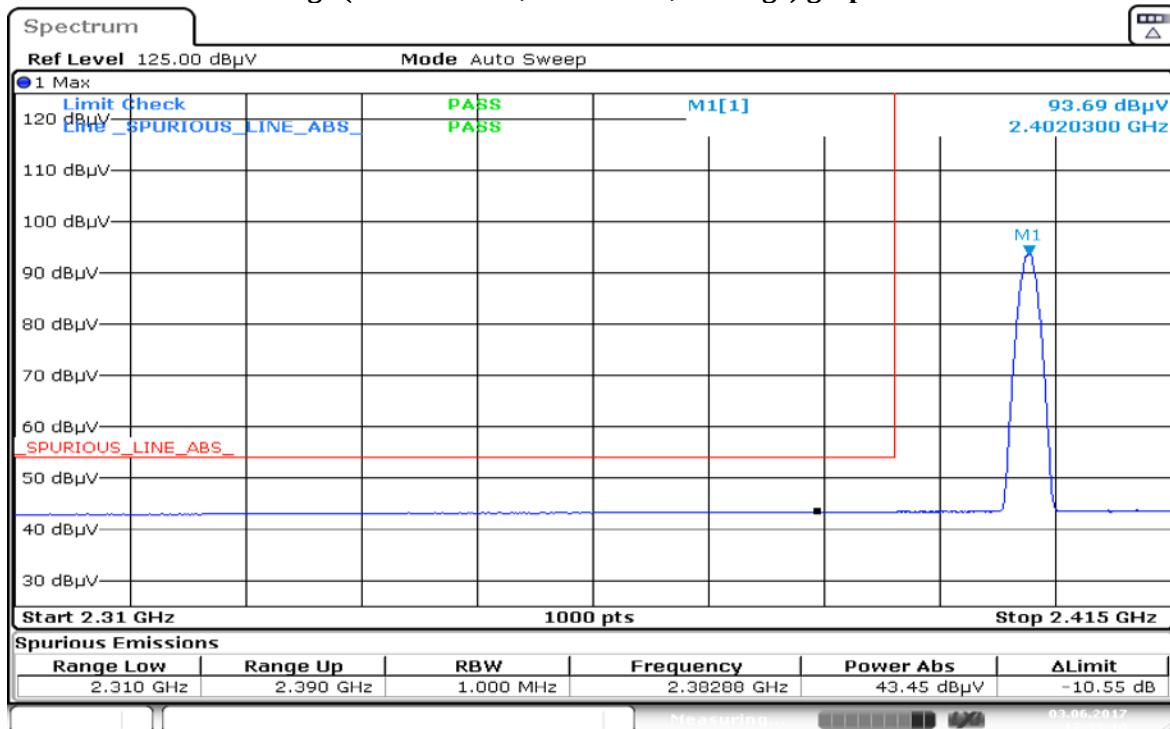
Date: 3.JUN.2017 17:37:46

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



Date: 3.JUN.2017 17:31:46

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



Date: 3.JUN.2017 17:33:11

Test: Bluetooth SAC Restricted Band Edge
Model Number: AAH88JCD9SA2AN **S/N: 130TTK0360** **EMC SR ID#: 06406-EMC-00002**
Battery: PMNN4468A **Accessory: NA**
Test Channel: High **Test Frequency: 2480.0000 MHz** **Test Standard: ANSI C63.10-2013**
Worst Case Plane: Y-Plane (GFSK)

Restricted Band Edge (High Channel) tabular data

[illegible]

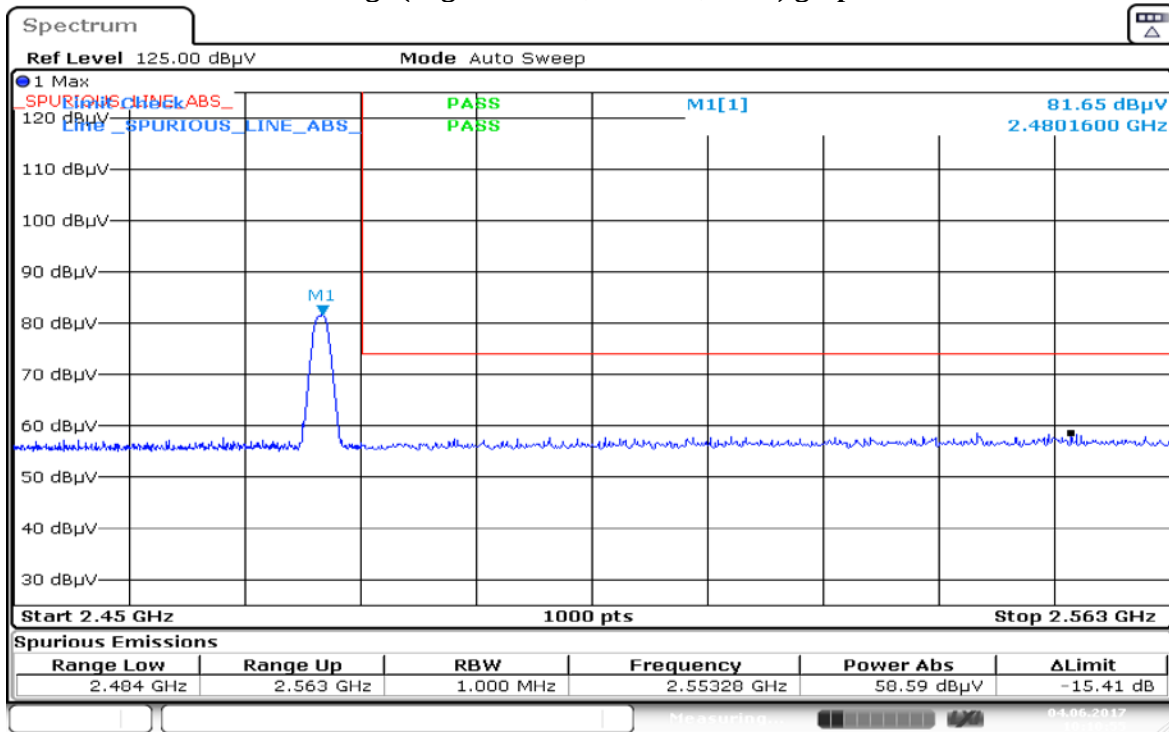
Remarks: Pass Result	Marginal Result	Fail Result
-------------------------	-----------------	-------------

Temperature (degC): 23.8
Test Performed by: Nazrin&Qawiman
System MU: 5.01dB

Humidity (%): 70.2
Test Date: Sun, Jun 04, 2017
Duty Cycle (%): 77

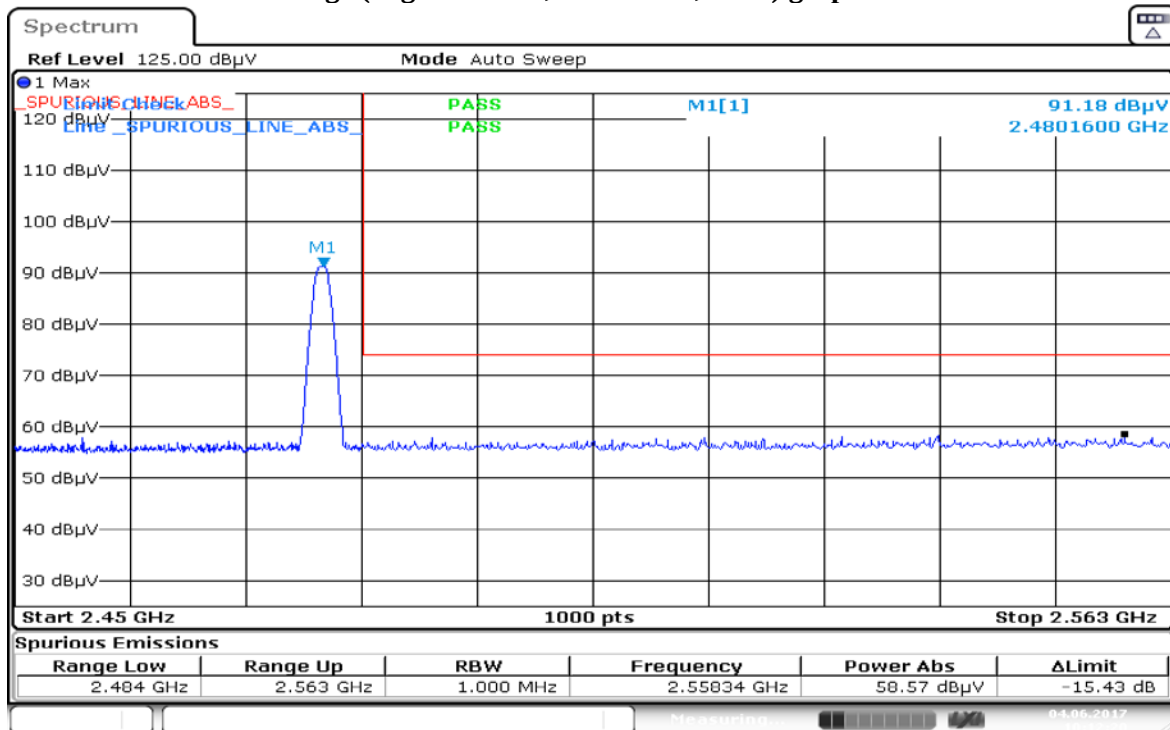
Note: No spurs were found in this test.

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



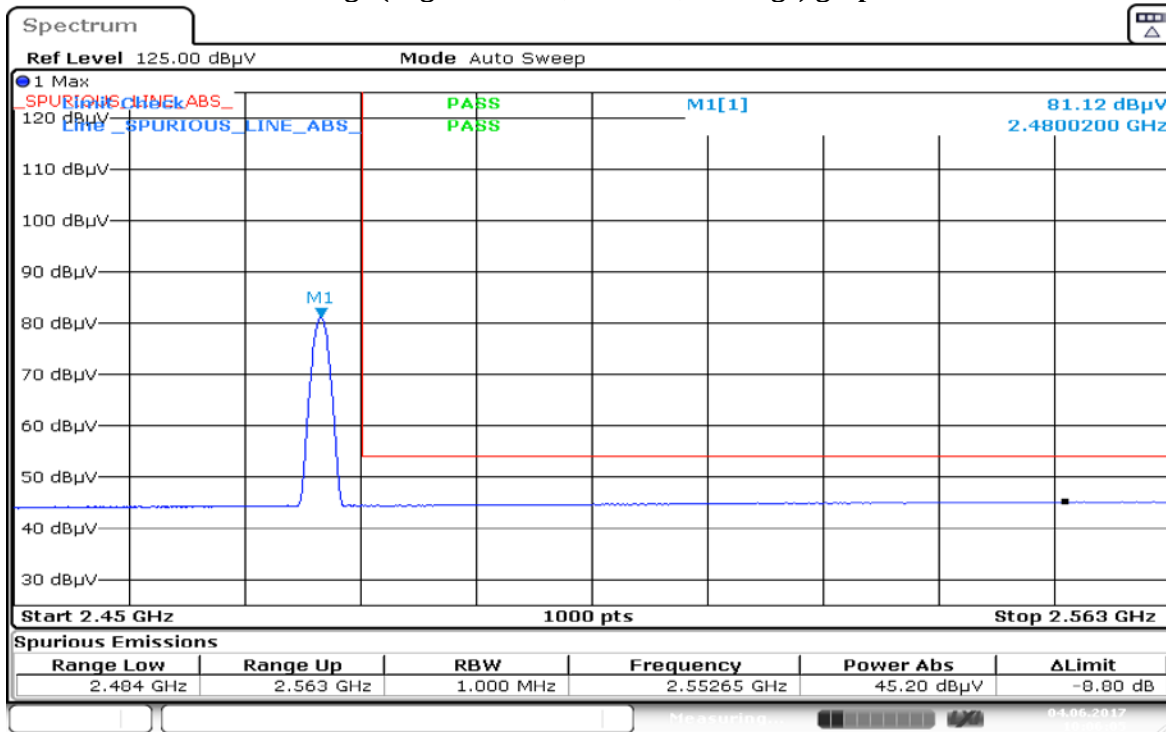
Date: 4.JUN.2017 10:10:56

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



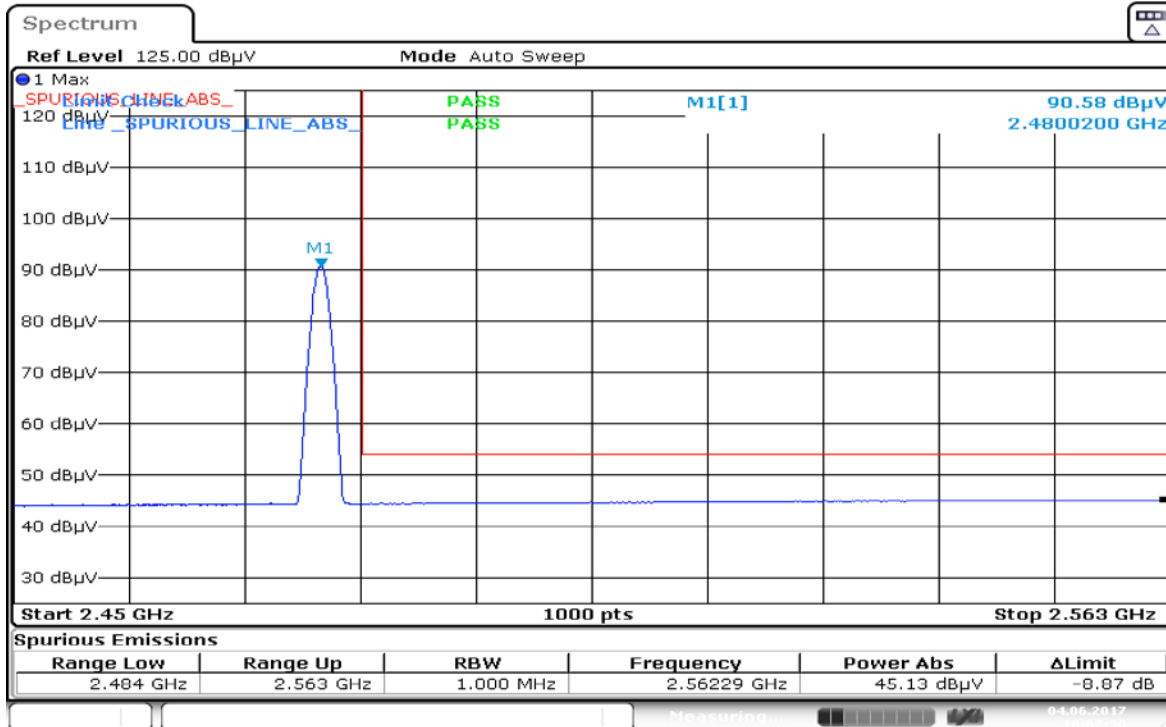
Date: 4.JUN.2017 10:12:21

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



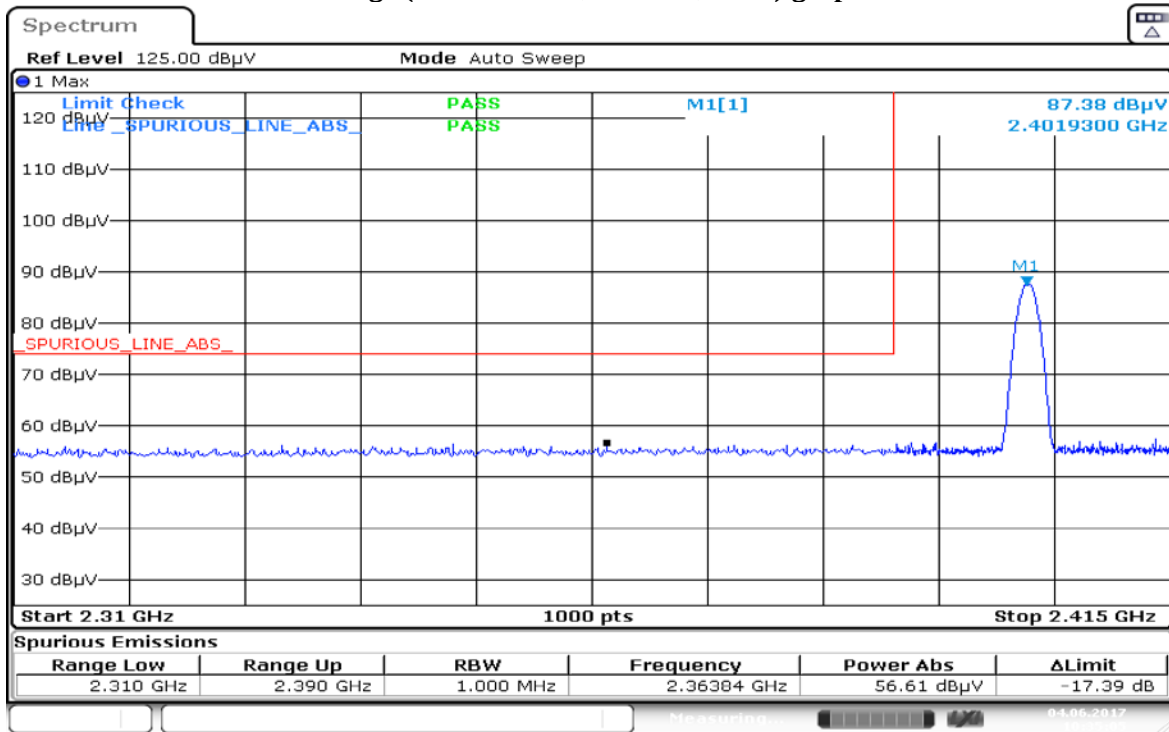
Date: 4.JUN.2017 10:06:06

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



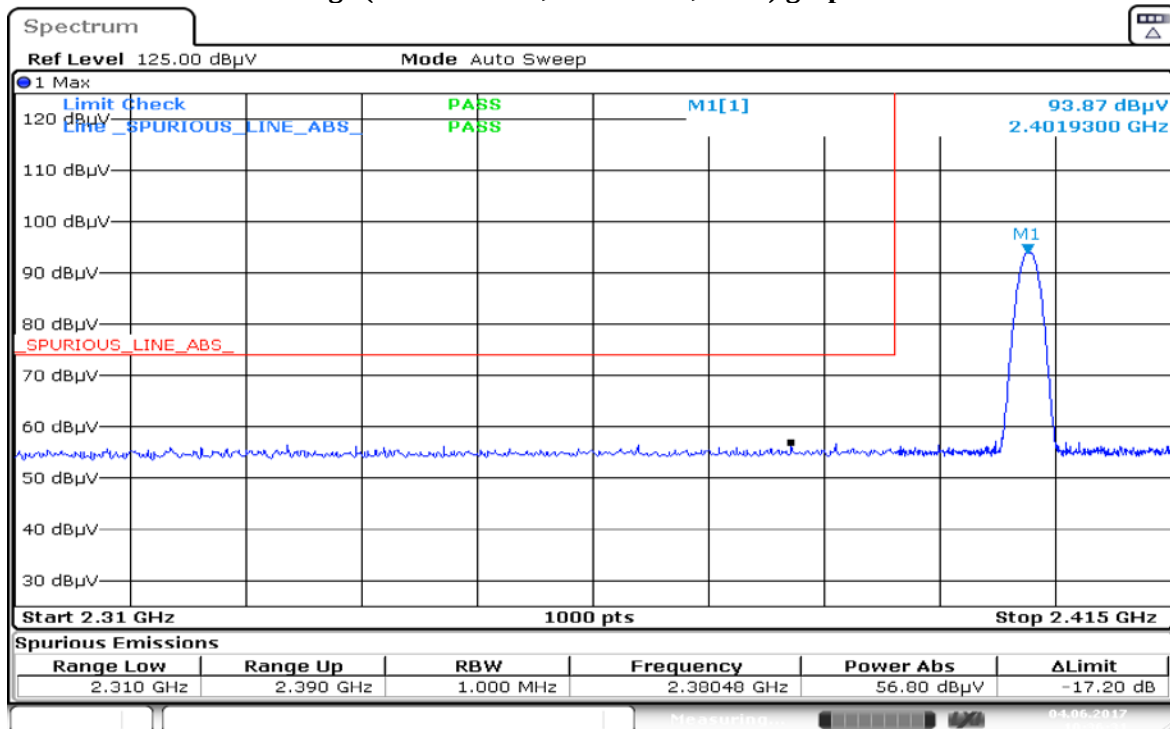
Date: 4.JUN.2017 10:07:31

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



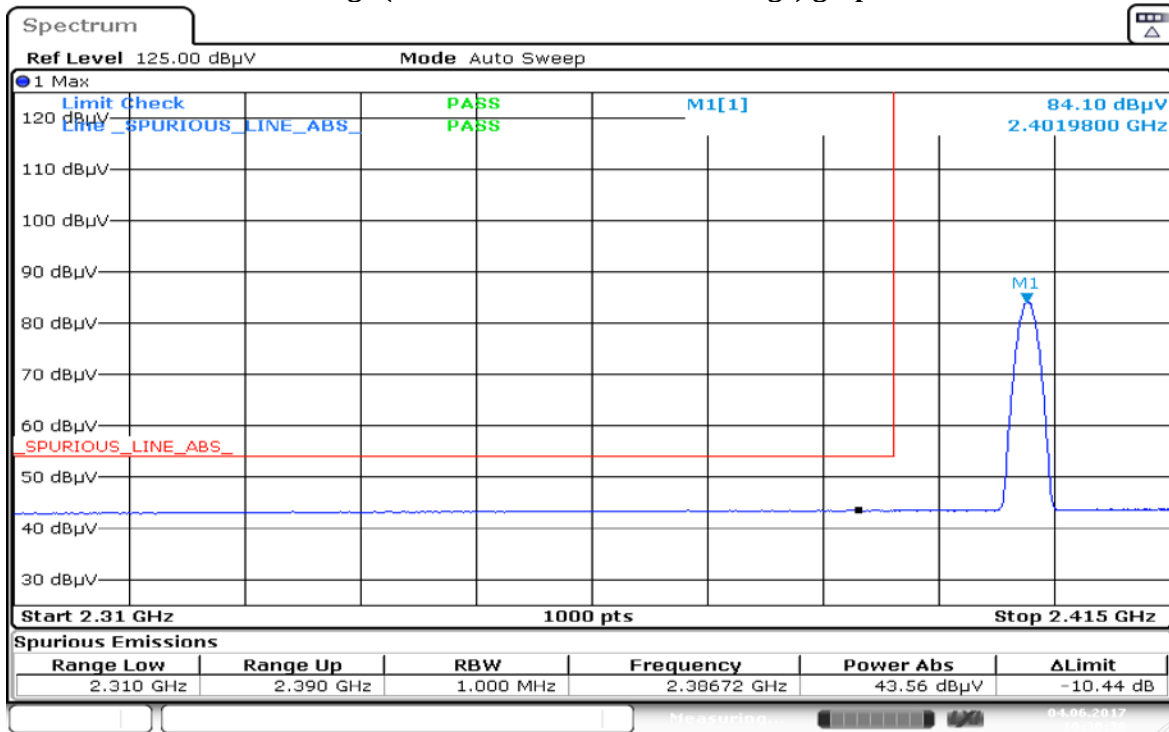
Date: 4.JUN.2017 10:35:06

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



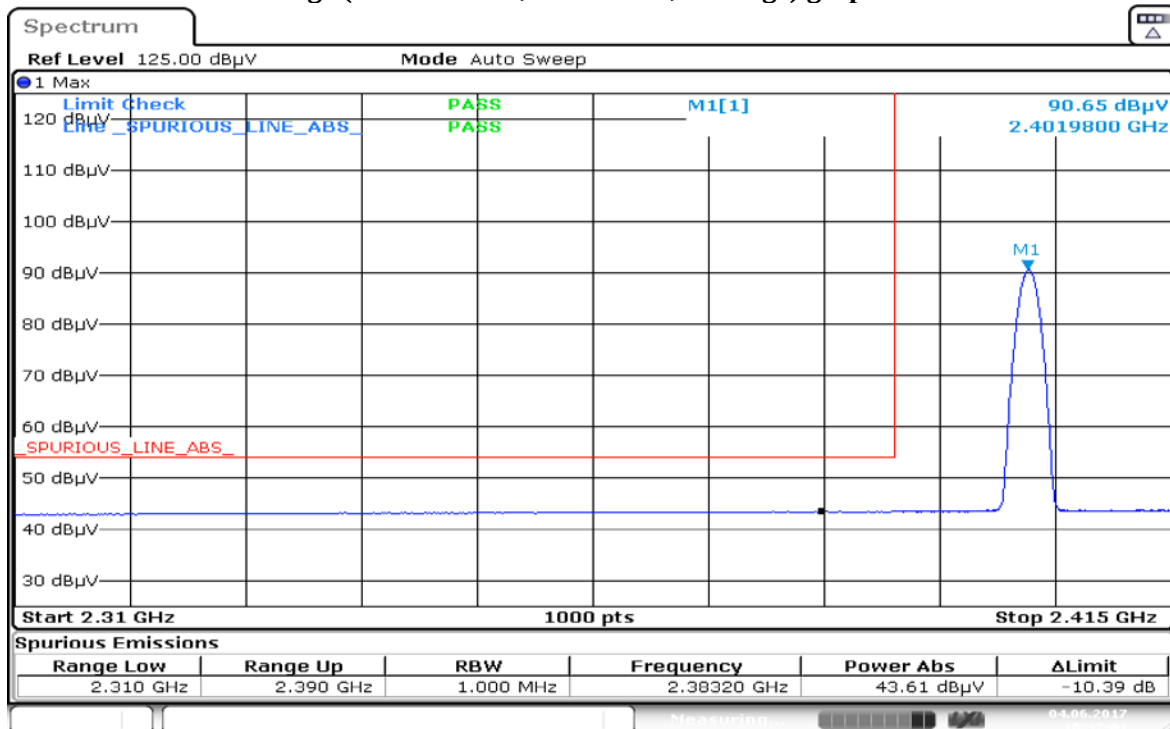
Date: 4.JUN.2017 10:36:31

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



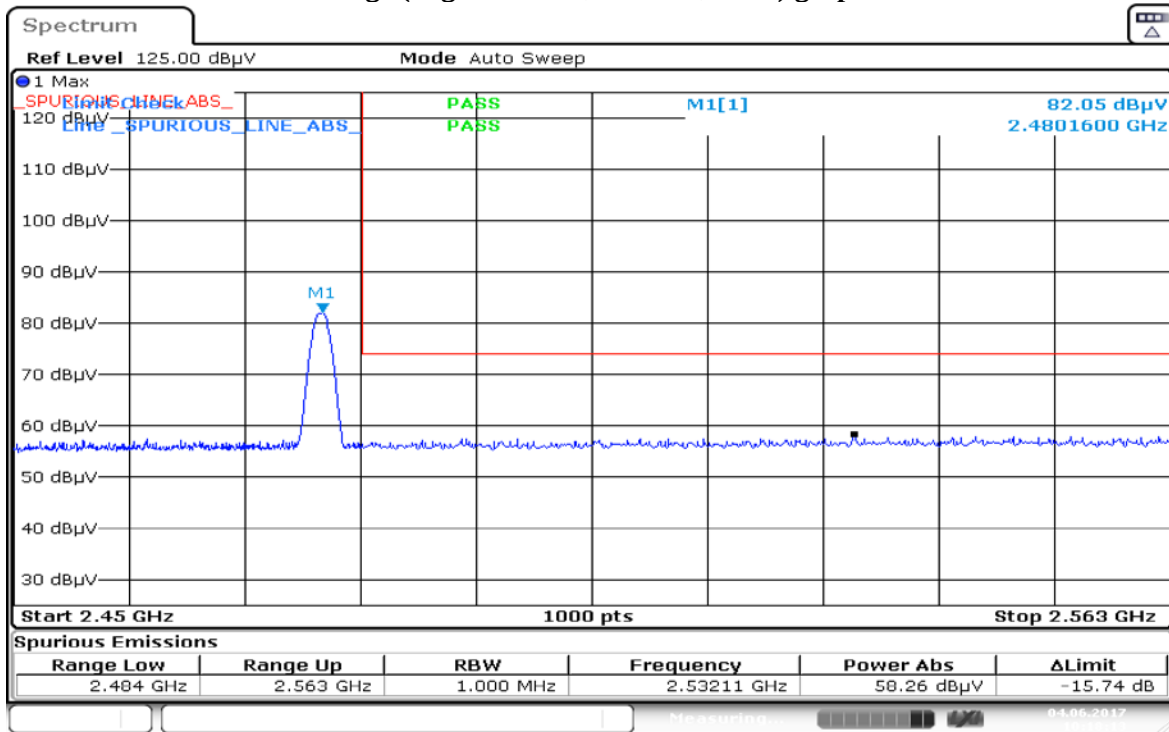
Date: 4.JUN.2017 10:30:39

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



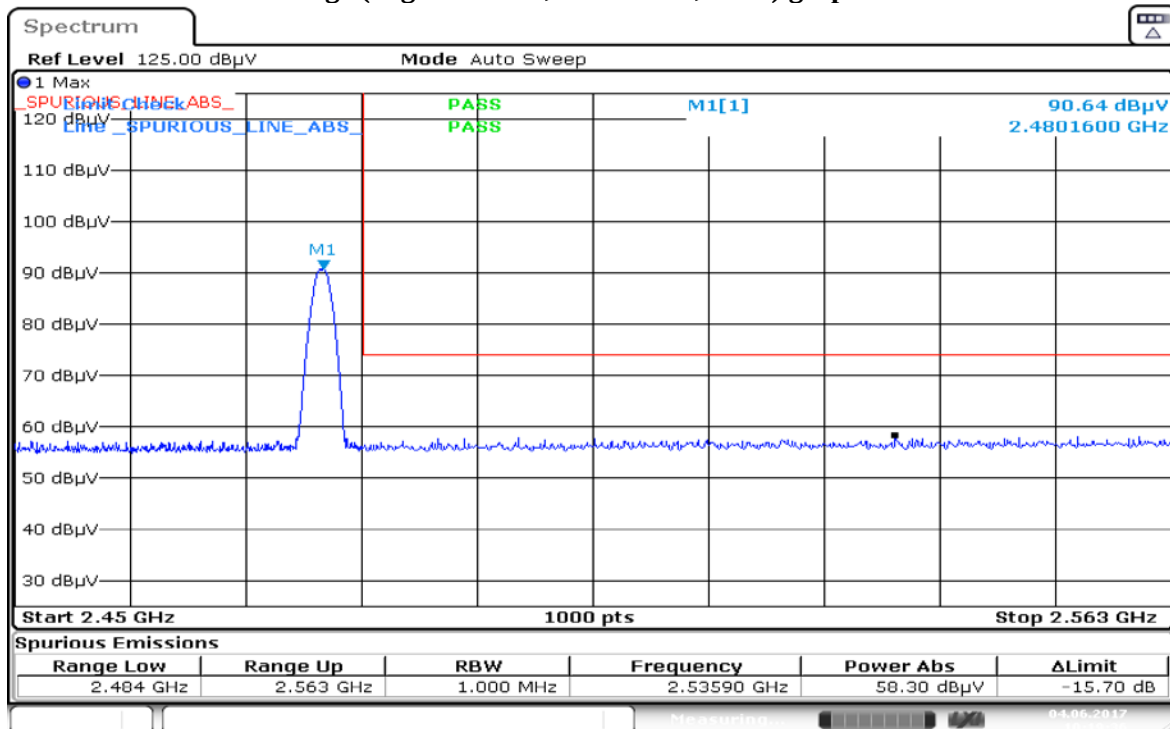
Date: 4.JUN.2017 10:32:01

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



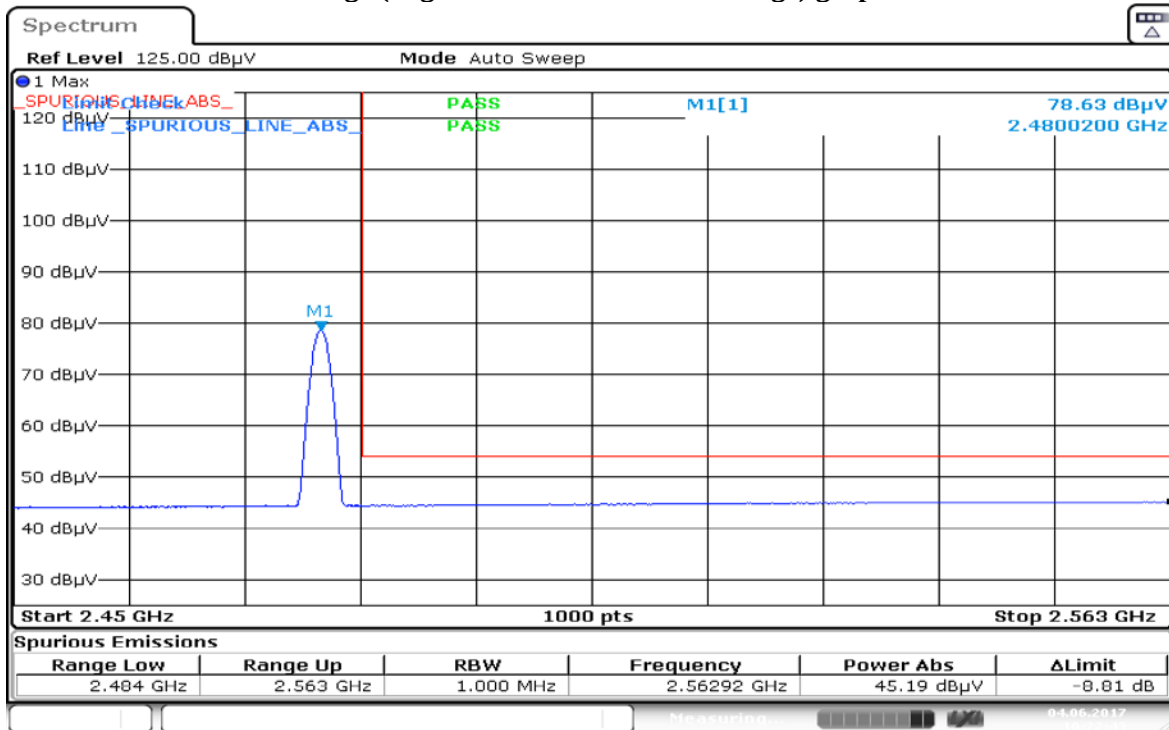
Date: 4.JUN.2017 10:18:14

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



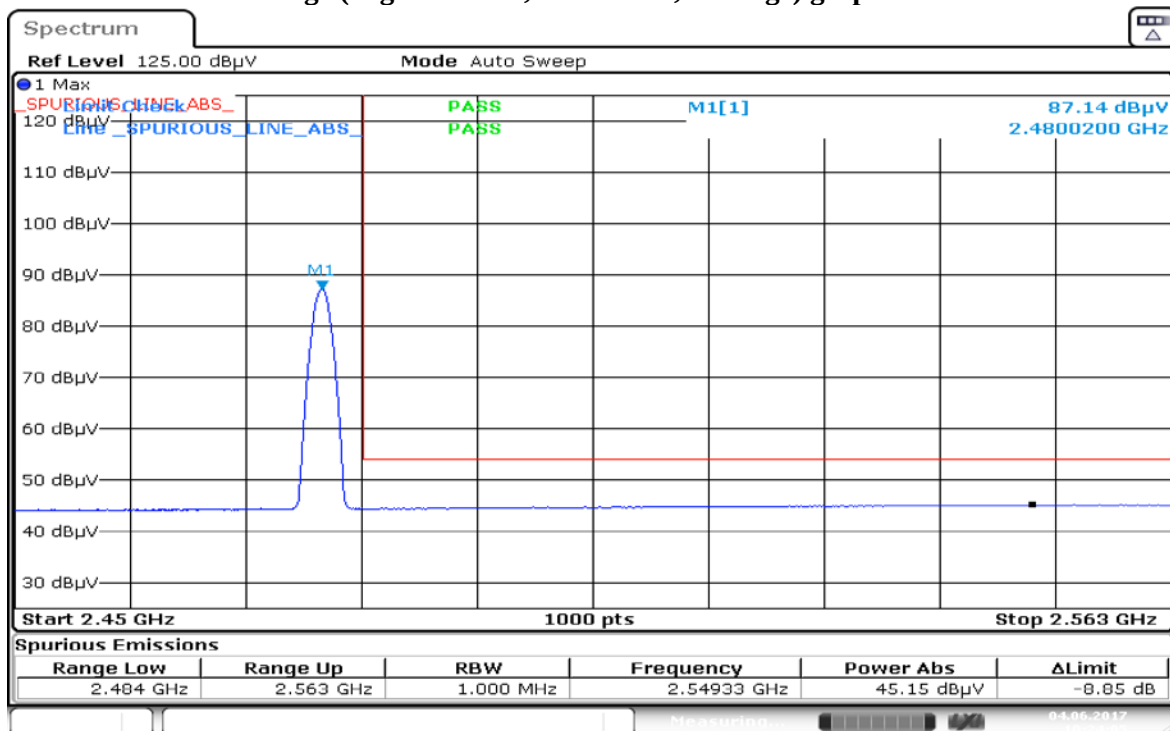
Date: 4.JUN.2017 10:19:36

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



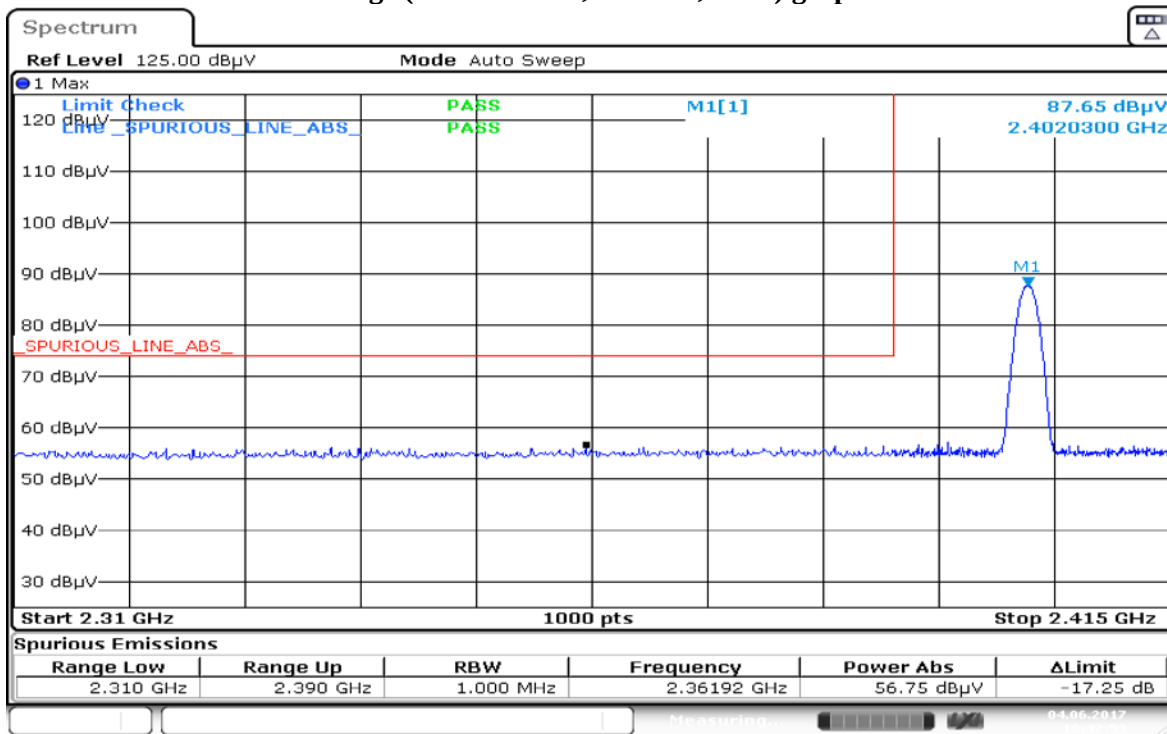
Date: 4.JUN.2017 10:22:44

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



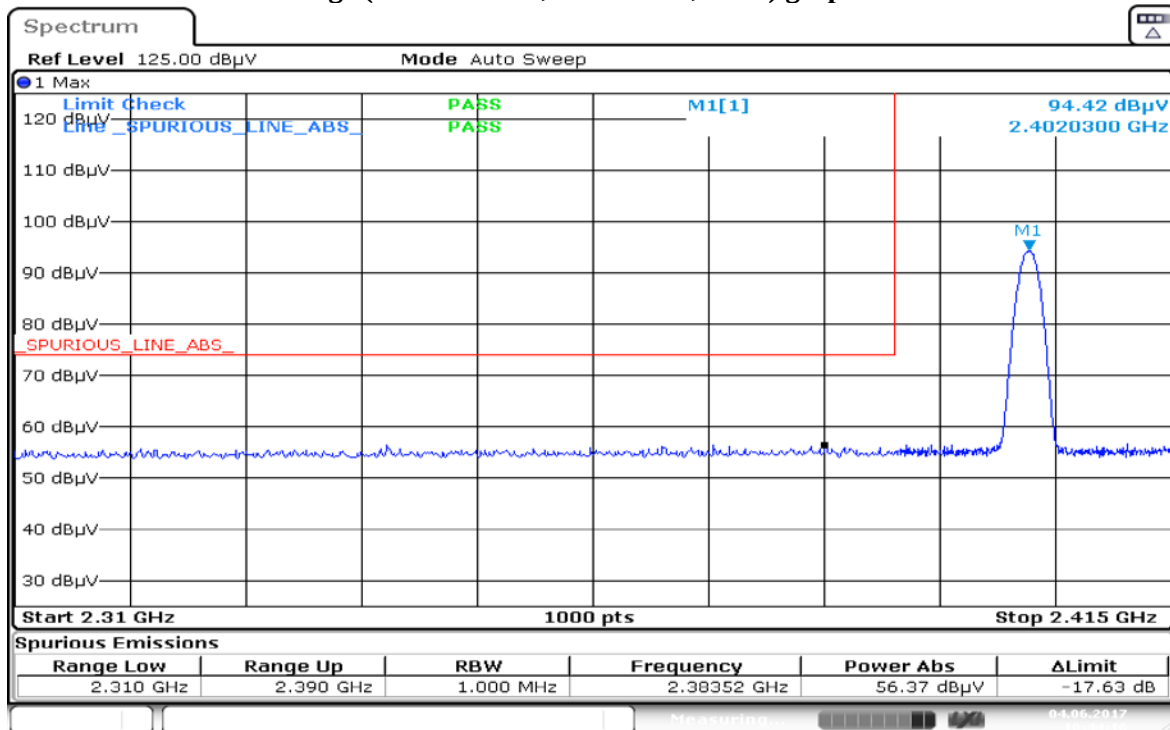
Date: 4.JUN.2017 10:24:06

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



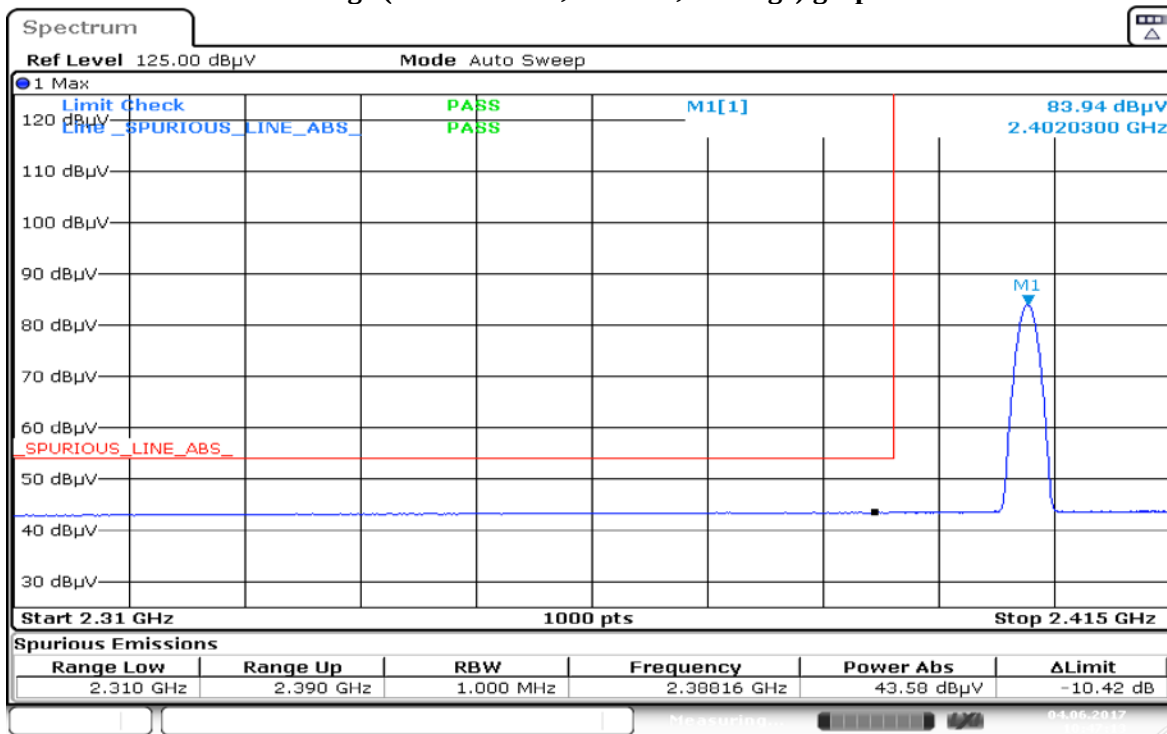
Date: 4.JUN.2017 10:42:54

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



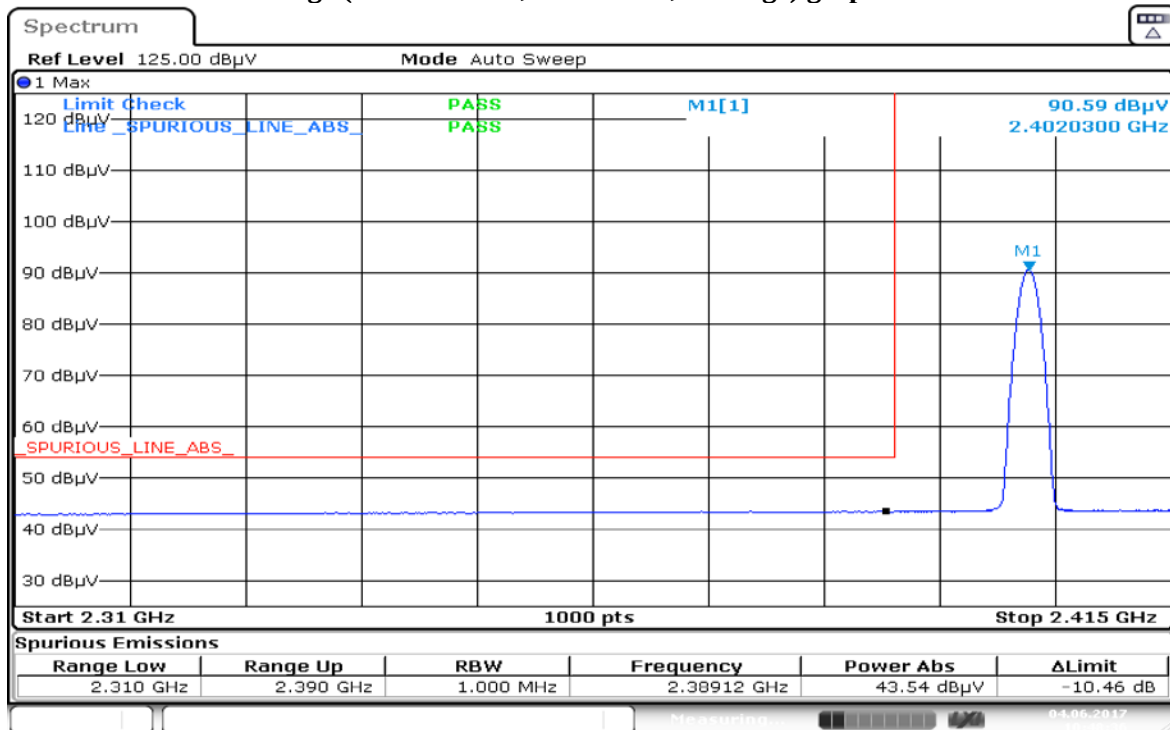
Date: 4.JUN.2017 10:44:16

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



Date: 4.JUN.2017 10:47:14

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



Date: 4.JUN.2017 10:48:36

Test: Bluetooth SAC Restricted Band Edge
Model Number: AAH88JCD9SA2AN **S/N: 130TTK0360** **EMC SR ID#: 06406-EMC-00002**
Battery: PMNN4468A **Accessory: NA**
Test Channel: High **Test Frequency: 2480.0000 MHz** **Test Standard: ANSI C63.10-2013**
Worst Case Plane: Y-Plane (8DPSK)

Restricted Band Edge (High Channel) tabular data

[illegible]

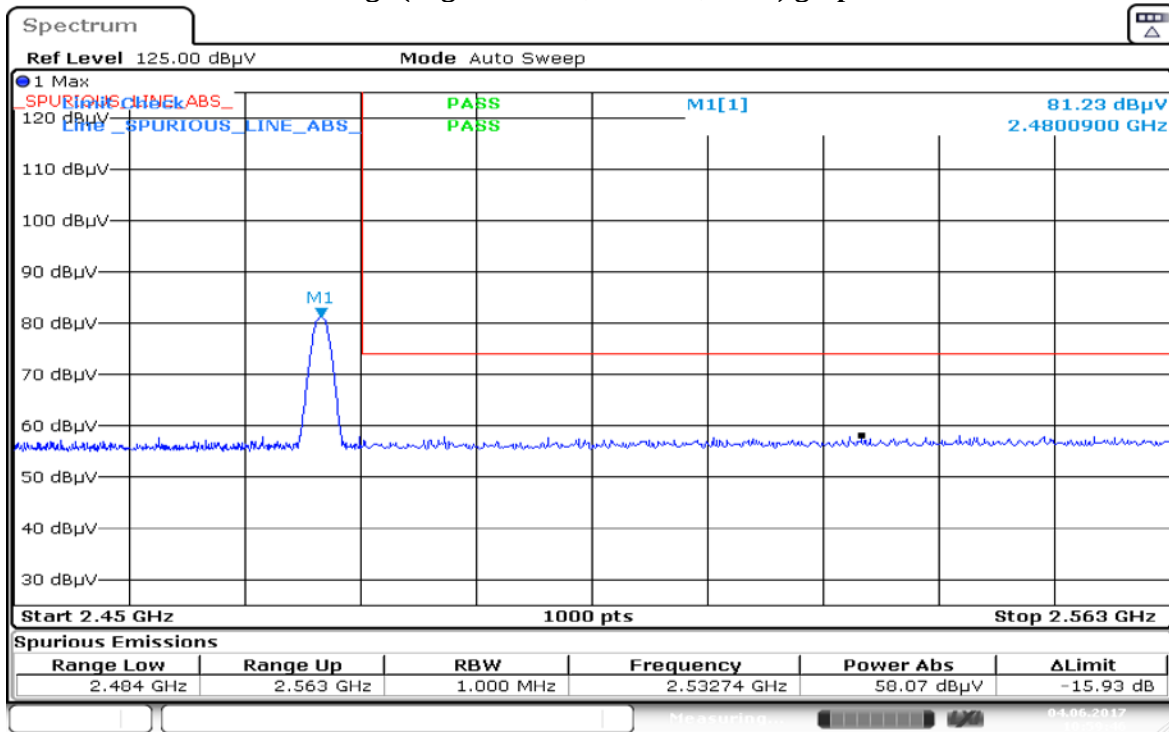
Remarks: Pass Result	Marginal Result	Fail Result
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Temperature (degC): 23.8
Test Performed by: Nazrin&Qawiman
System MU: 5.01dB

Humidity (%): 70.2
Test Date: Sun, Jun 04, 2017
Duty Cycle (%): 77

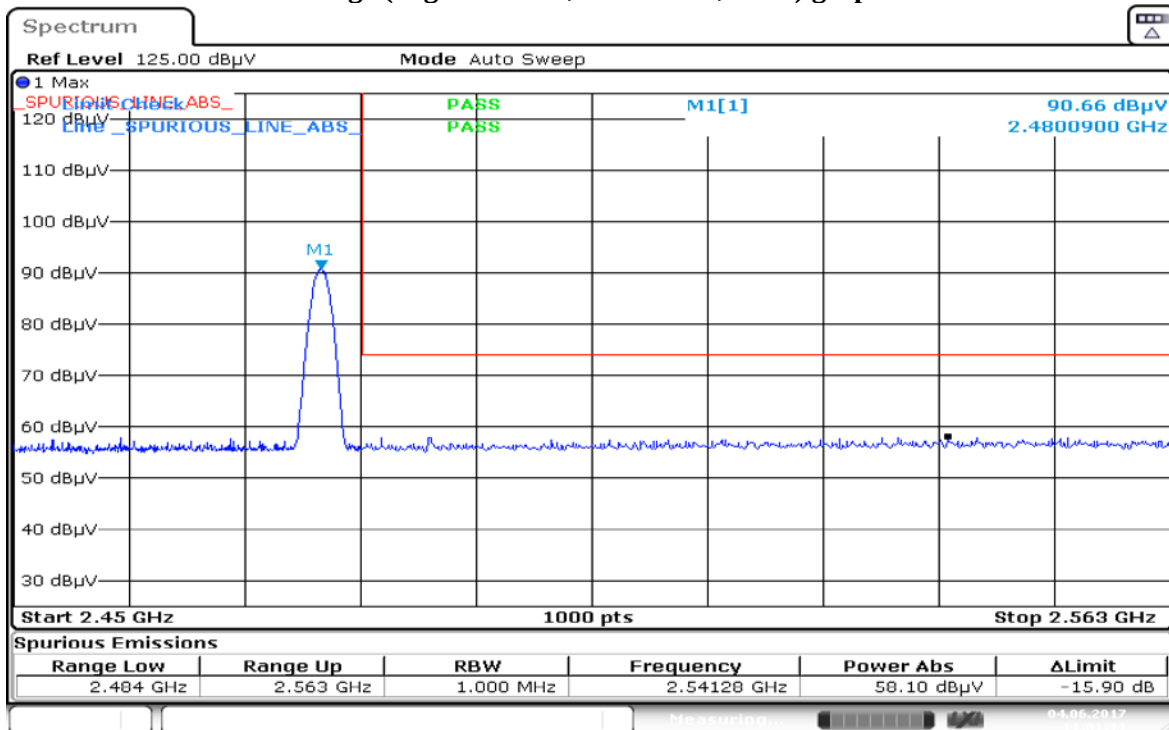
Note: No spurs were found in this test.

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



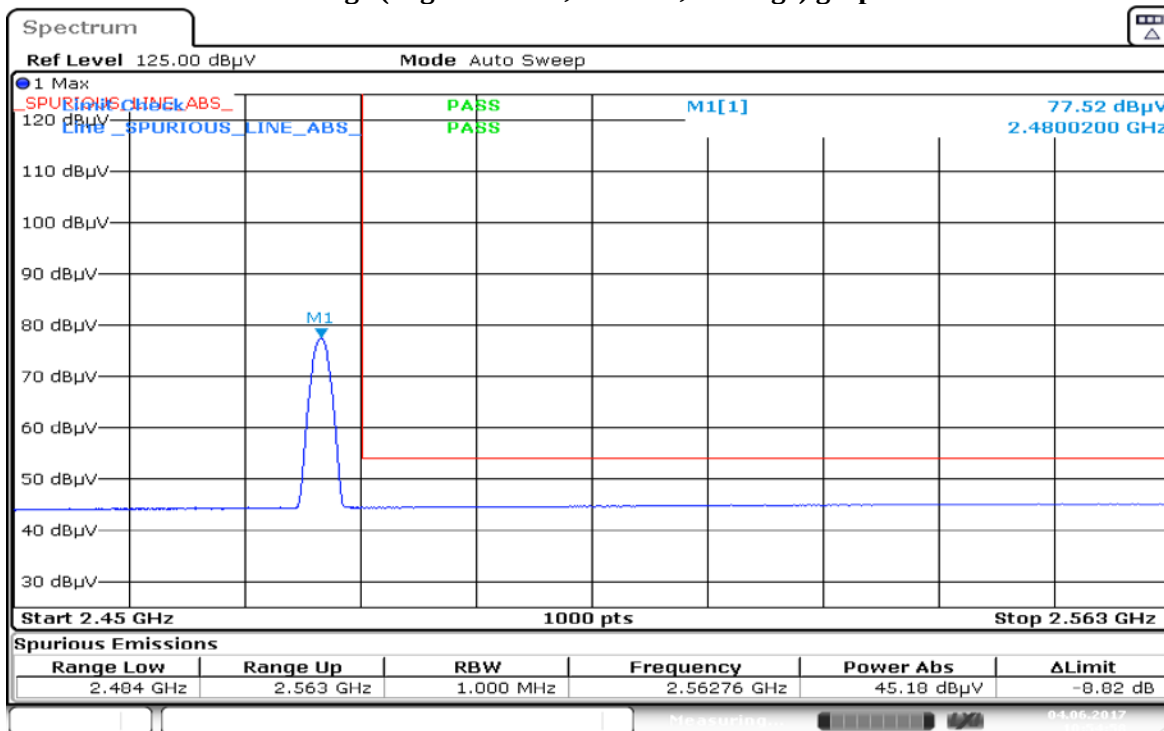
Date: 4.JUN.2017 10:59:46

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



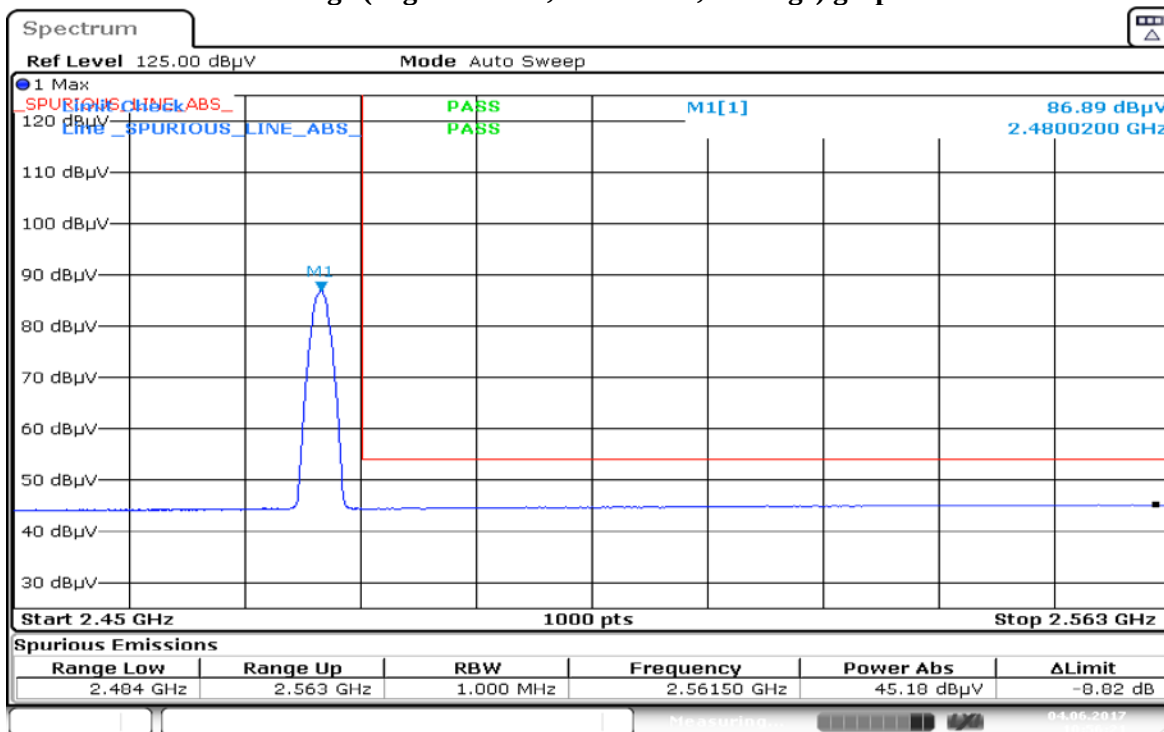
Date: 4.JUN.2017 11:01:11

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



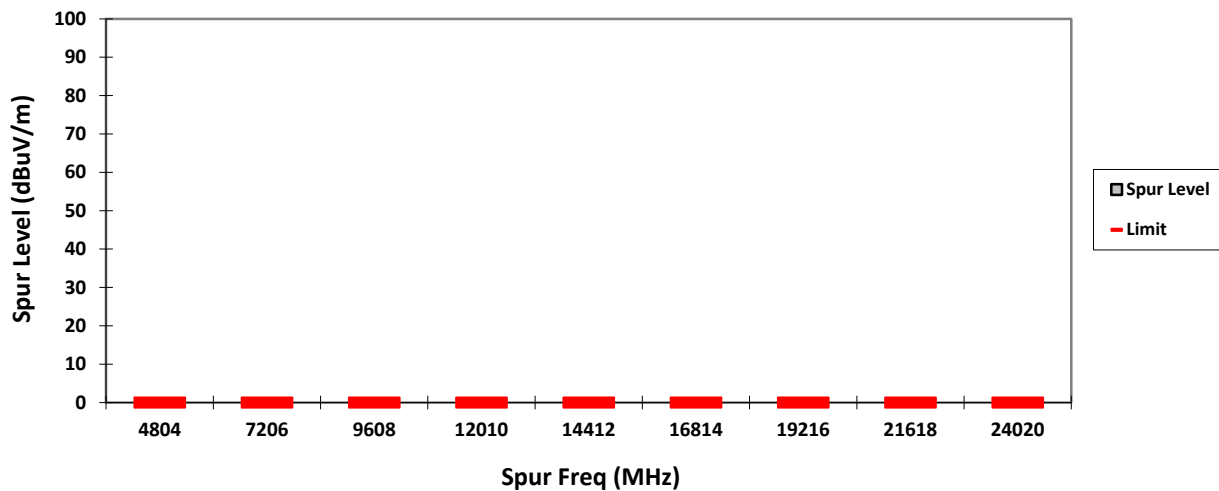
Date: 4.JUN.2017 10:54:59

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

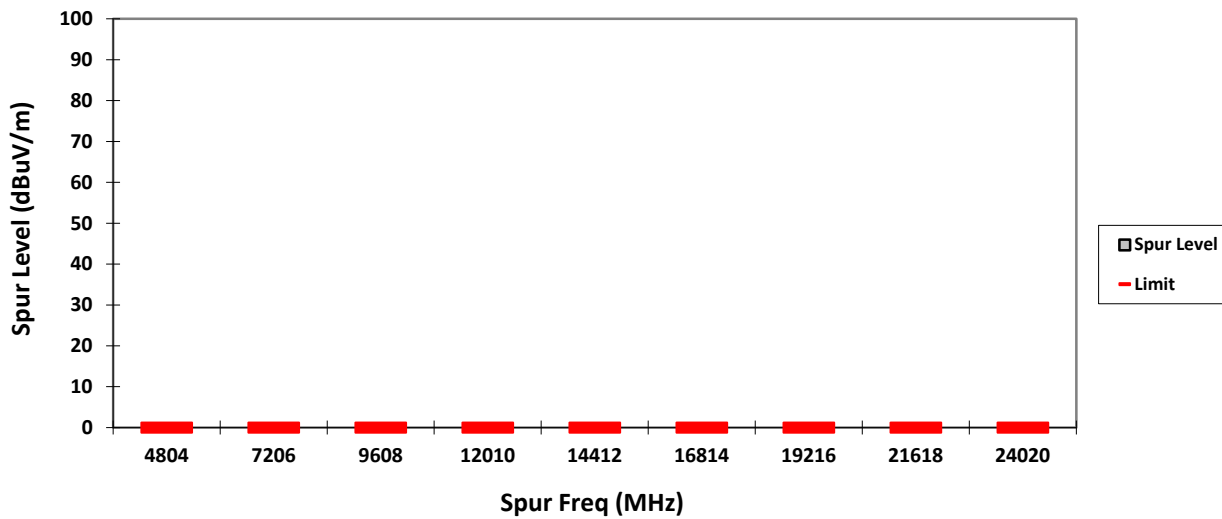


Date: 4.JUN.2017 10:56:21

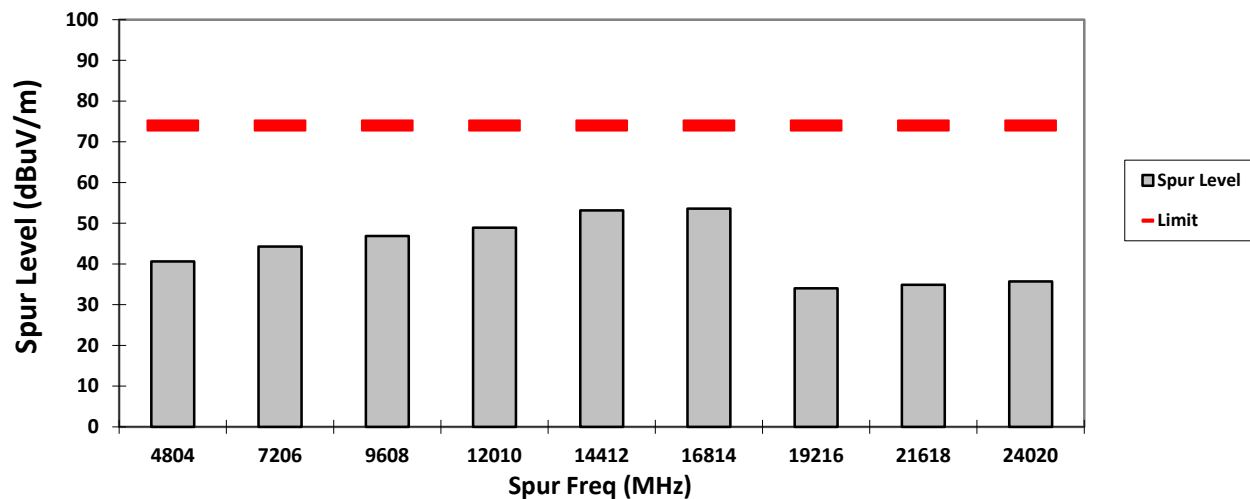
VERTICAL, QPK



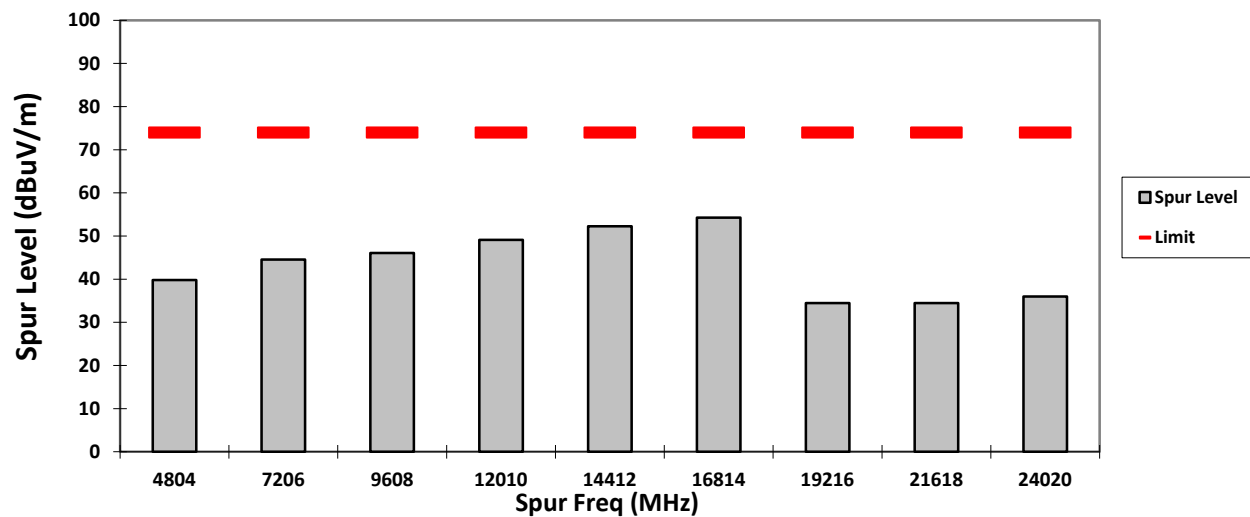
HORIZONTAL, QPK



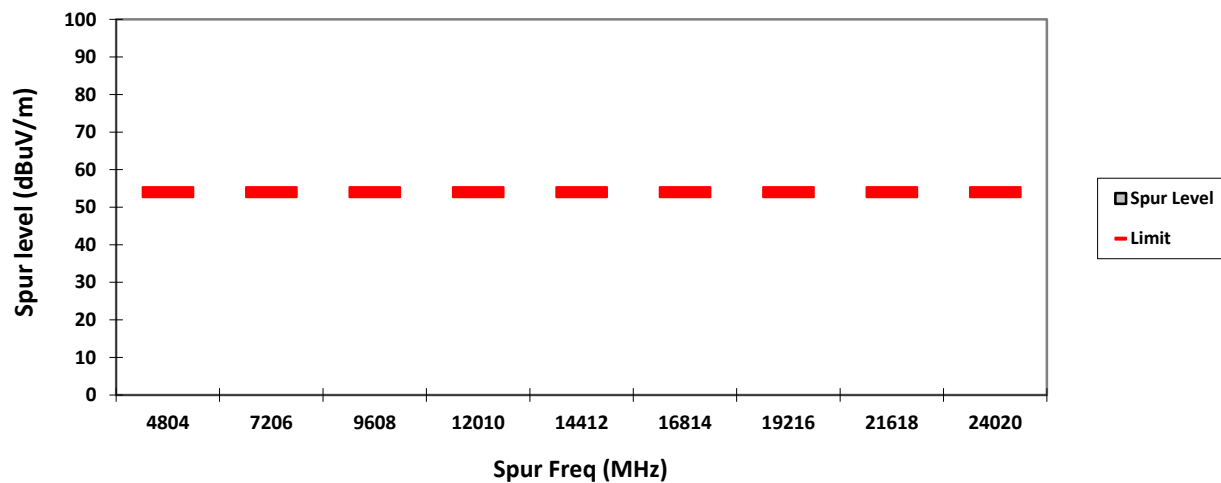
VERTICAL, PK



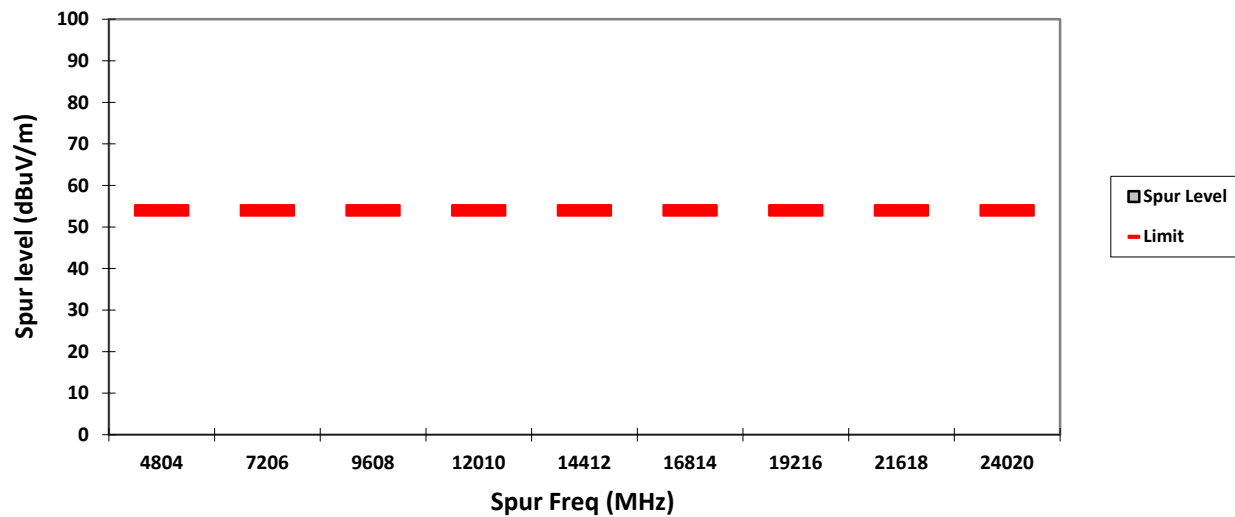
HORIZONTAL, PK



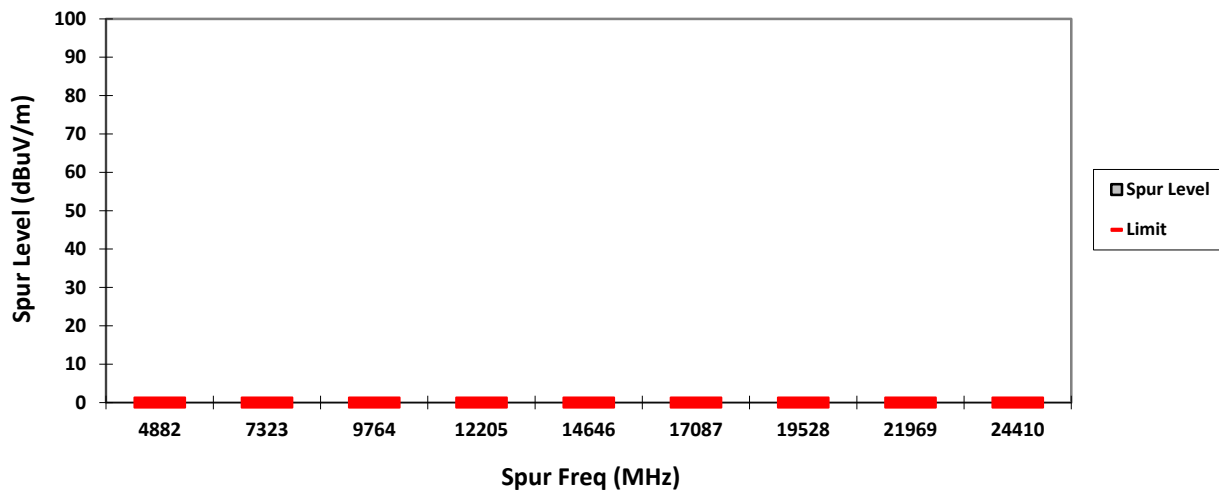
VERTICAL, AV



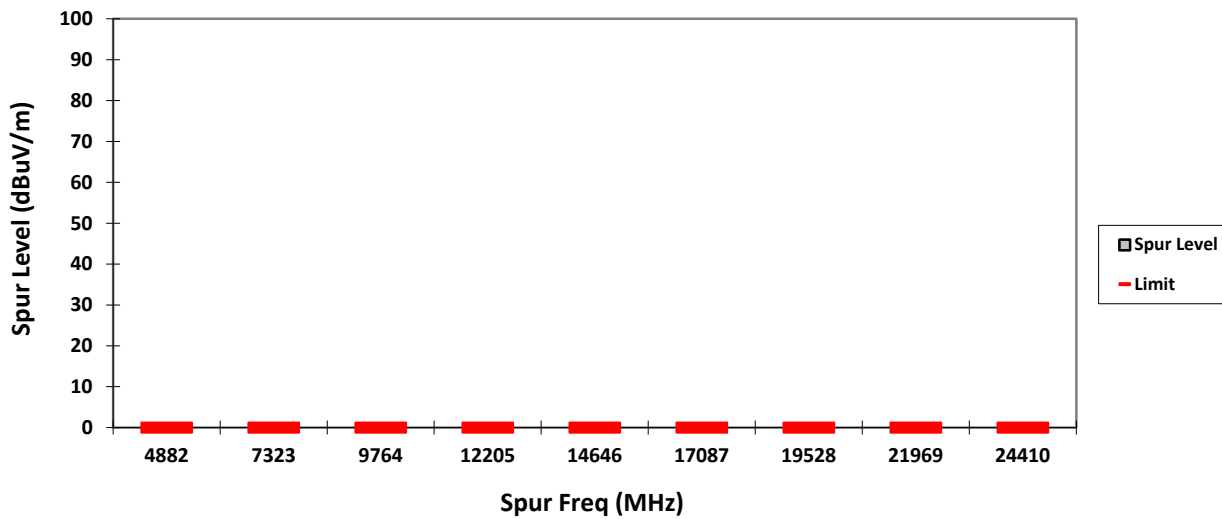
HORIZONTAL, AV



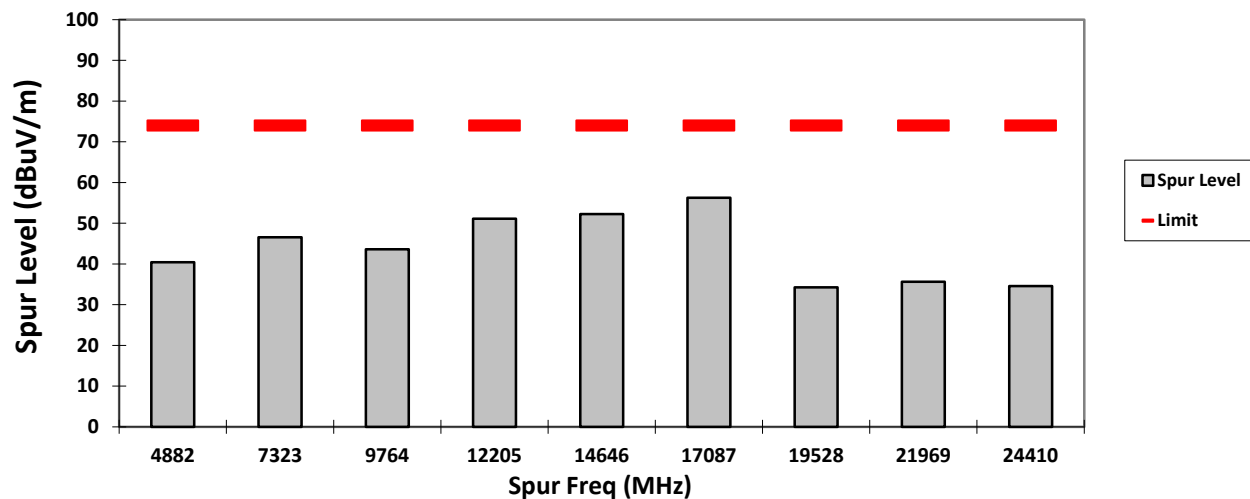
VERTICAL, QPK



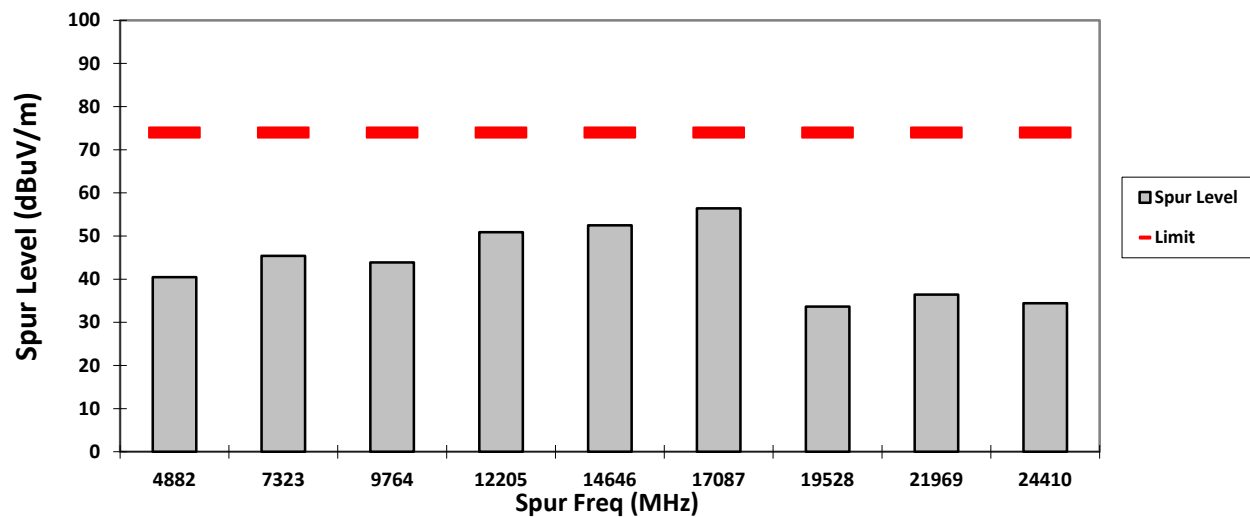
HORIZONTAL, QPK



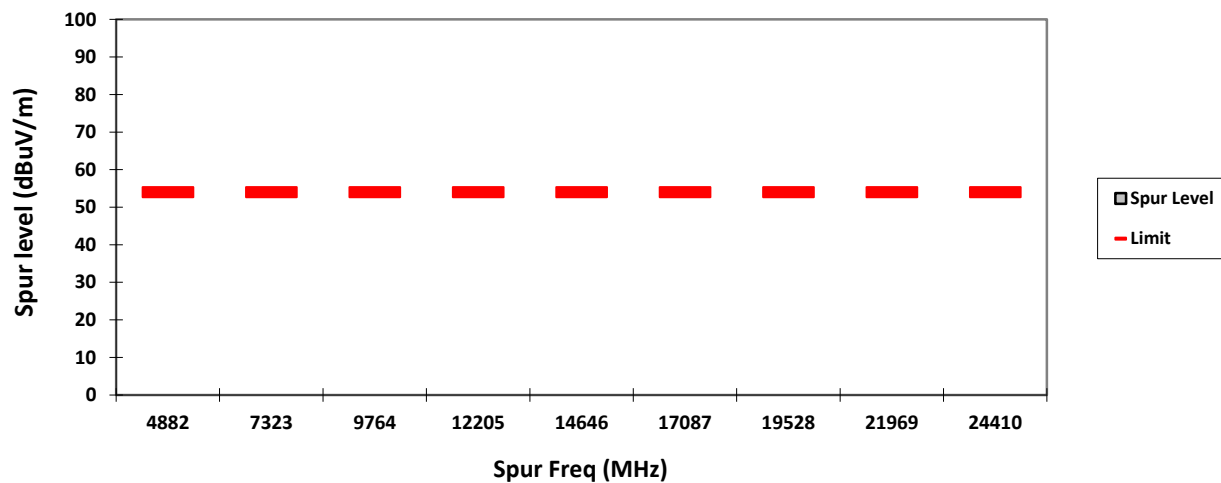
VERTICAL, PK



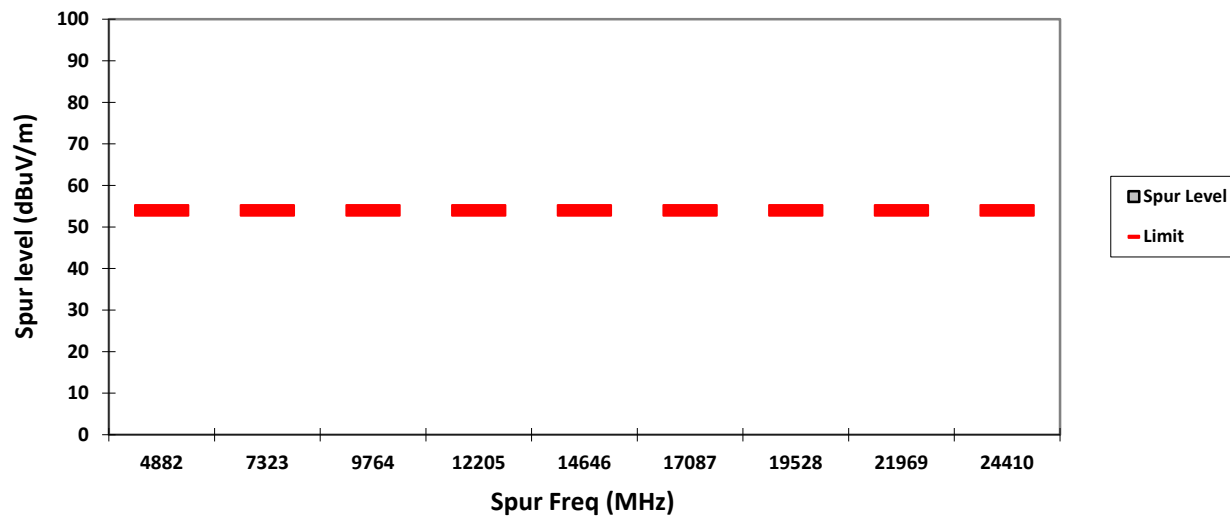
HORIZONTAL, PK



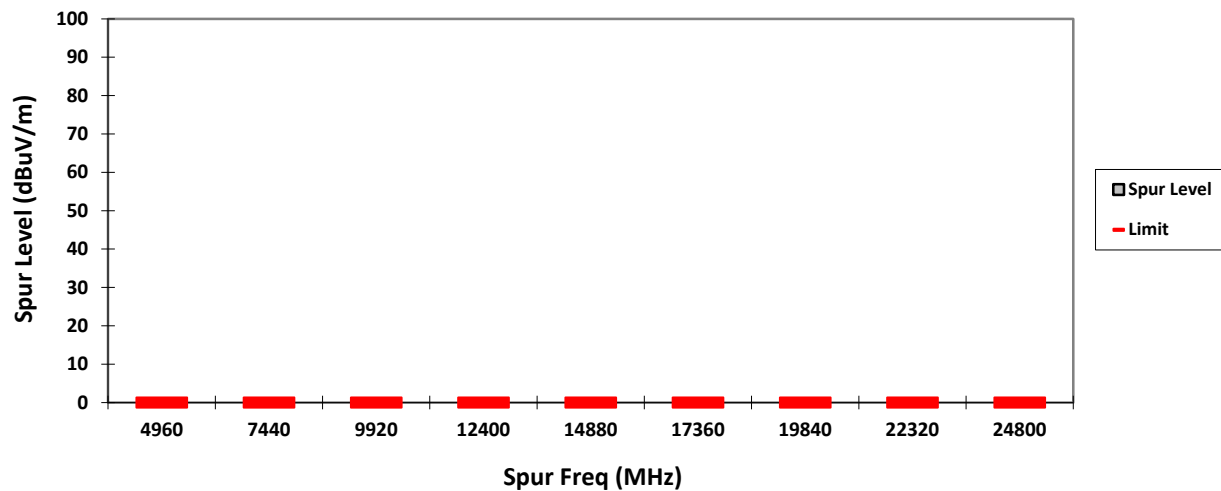
VERTICAL, AV



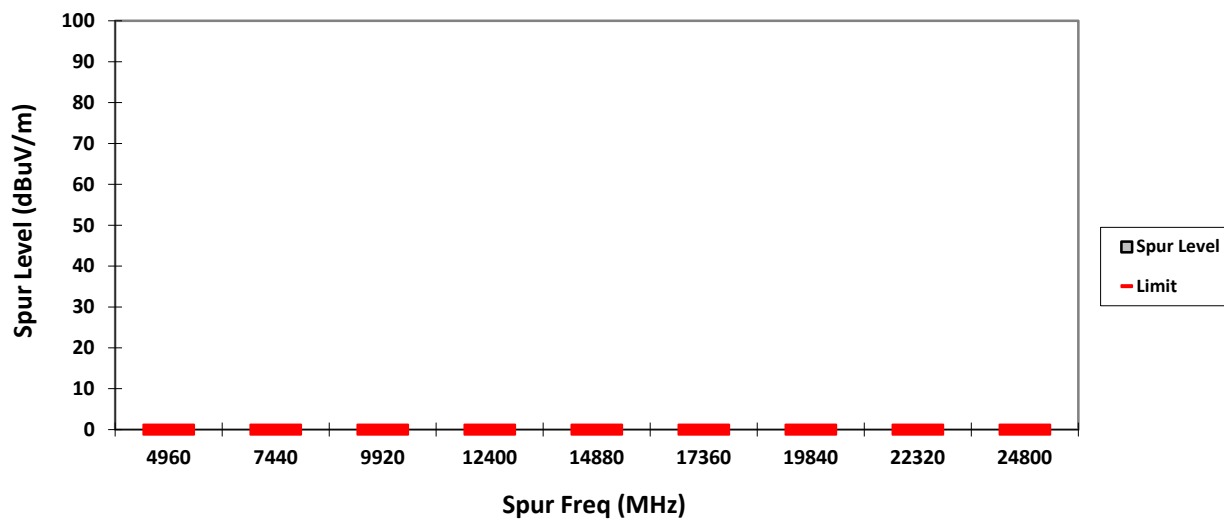
HORIZONTAL, AV



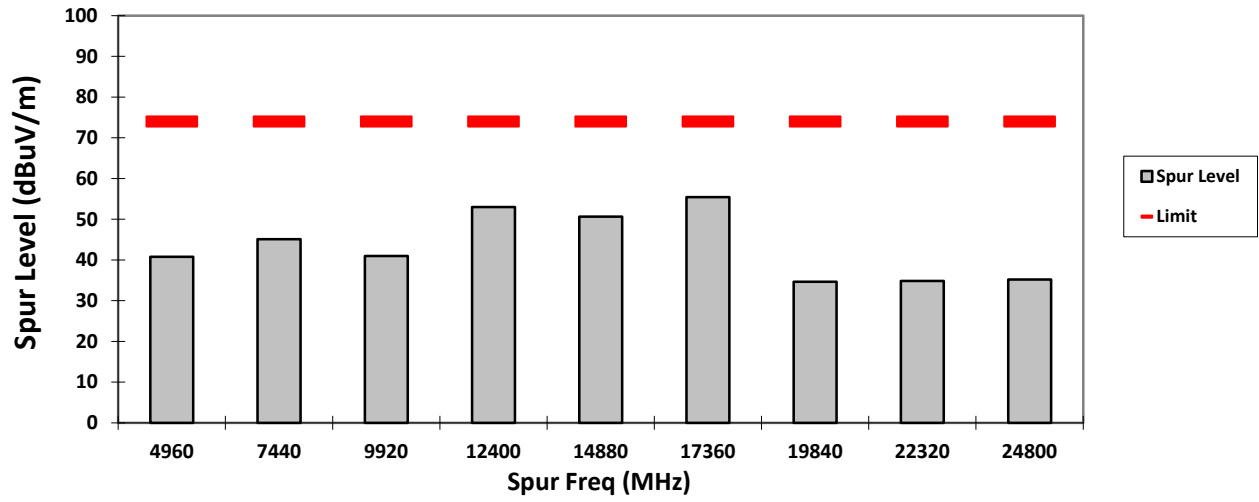
VERTICAL, QPK



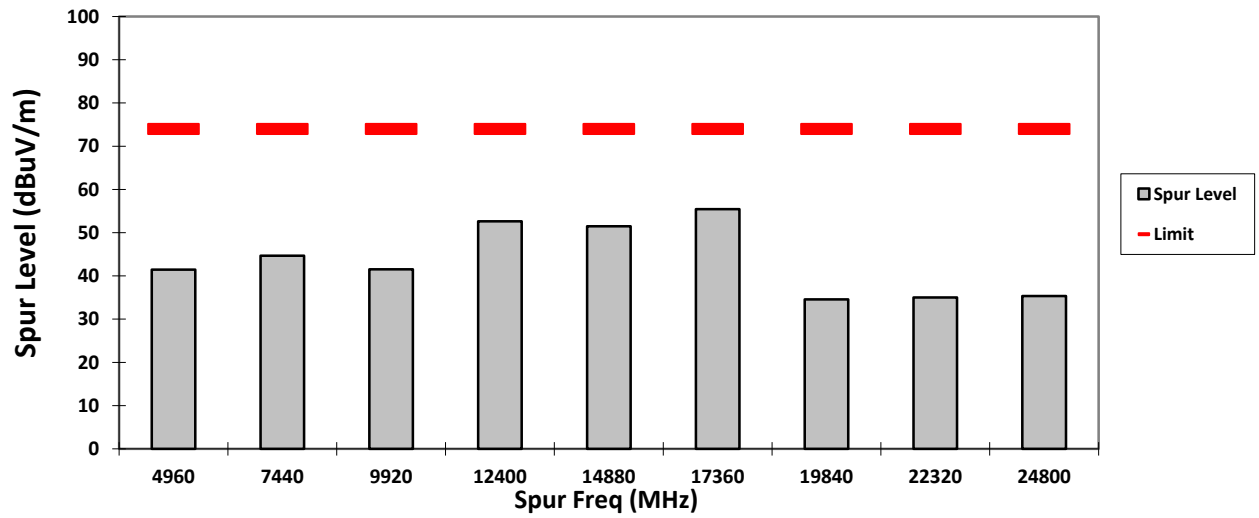
HORIZONTAL, QPK



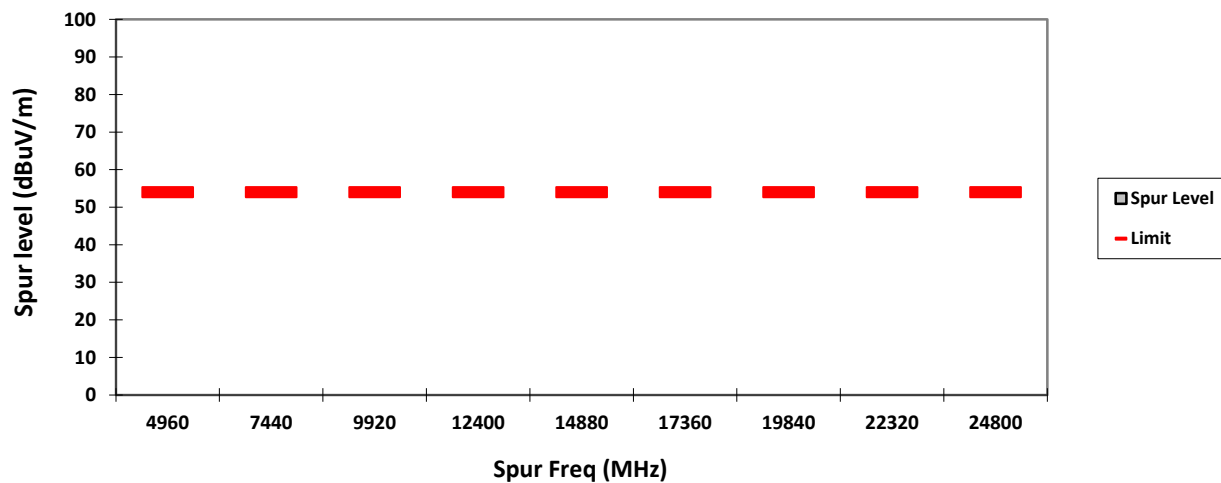
VERTICAL, PK



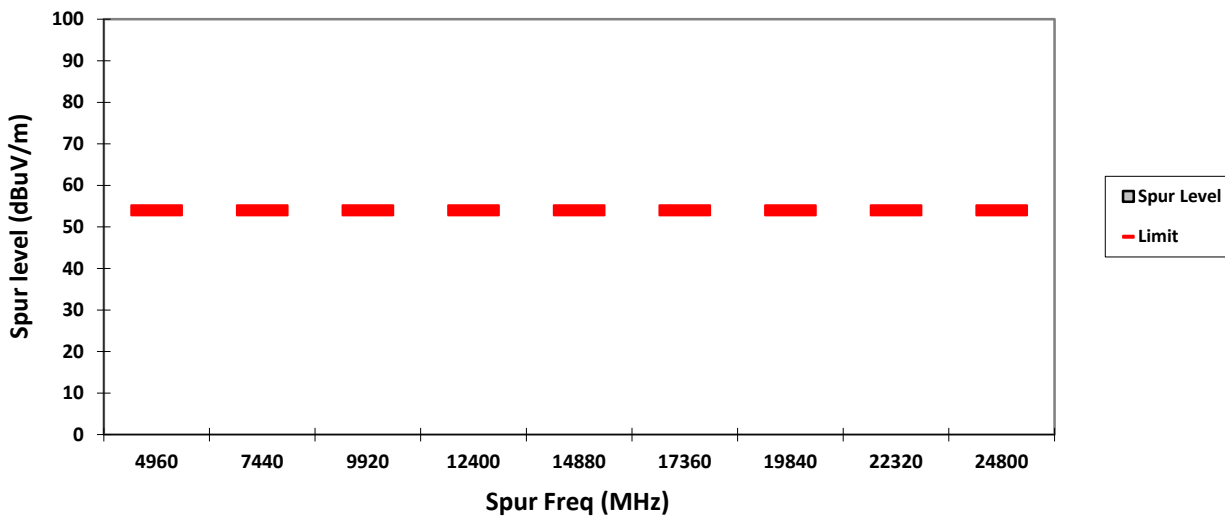
HORIZONTAL, PK



VERTICAL, AV



HORIZONTAL, AV



Test: Bluetooth SAC Transmitter Radiated Emission
Model#: AAH88JCD9SA2AN **S/N: 130TTK0360** **EMC SR ID#: 06406-EMC-00002**
Battery: PMNN4468A **Accessory: NA**
Test Channel: Low **Test Frequency: 2402.0000 MHz** **Test Standard: ANSI C63.10-2013**
Worst Case Plane: Y-Plane (EDR 2 Π/4 DQPSK)

[illegible]

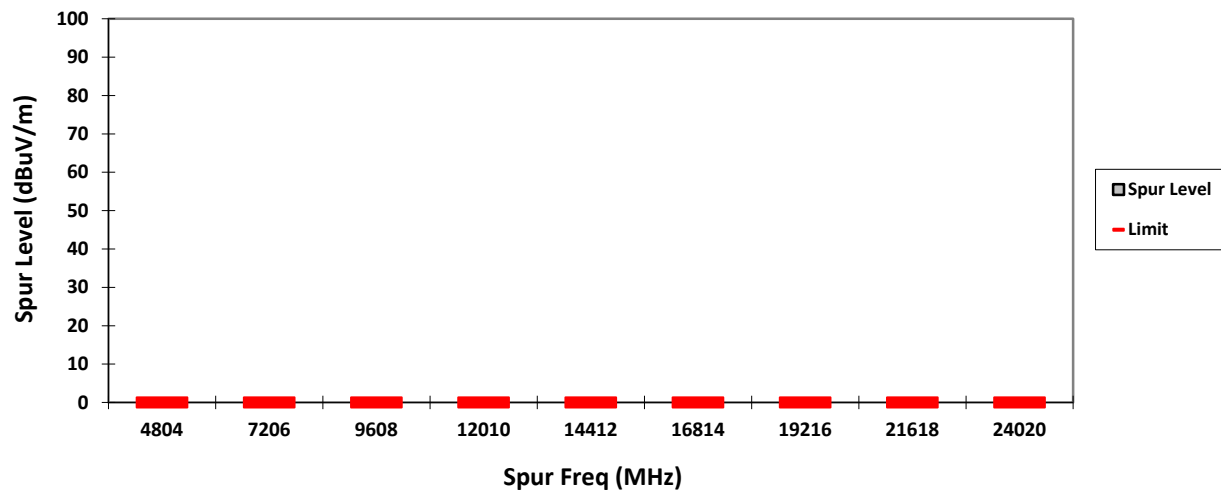
Remarks: Pass Result	Marginal Result	Fail Result
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Temperature (degC): 23.8
Test Performed by: Nazrin&Qawiman
System MU: 5.01dB

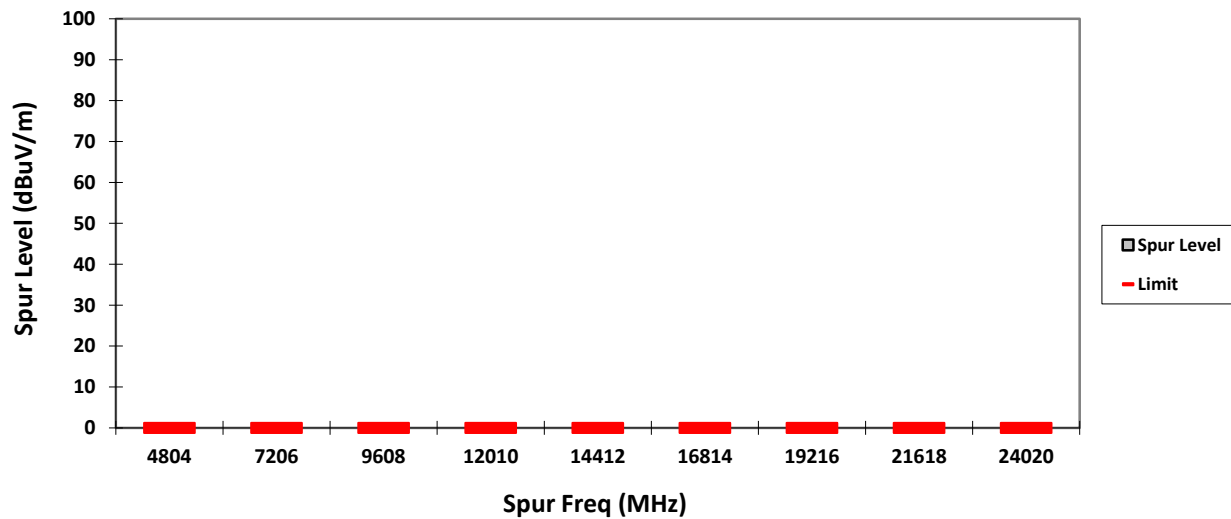
Humidity (%): 70.2
Test Date: Wed, Jun 07, 2017
Duty Cycle (%): 77

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.

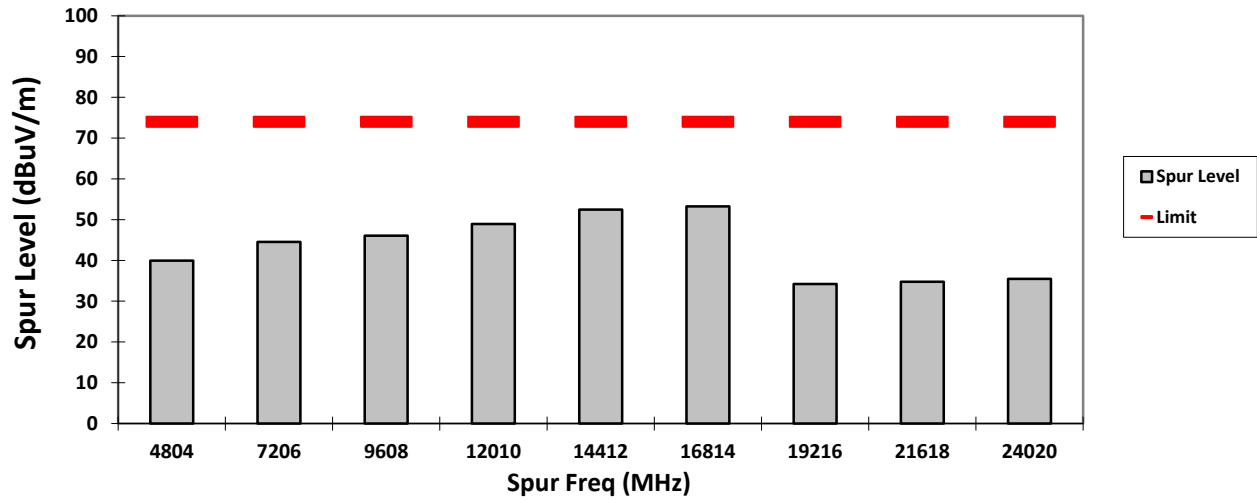
VERTICAL, QPK



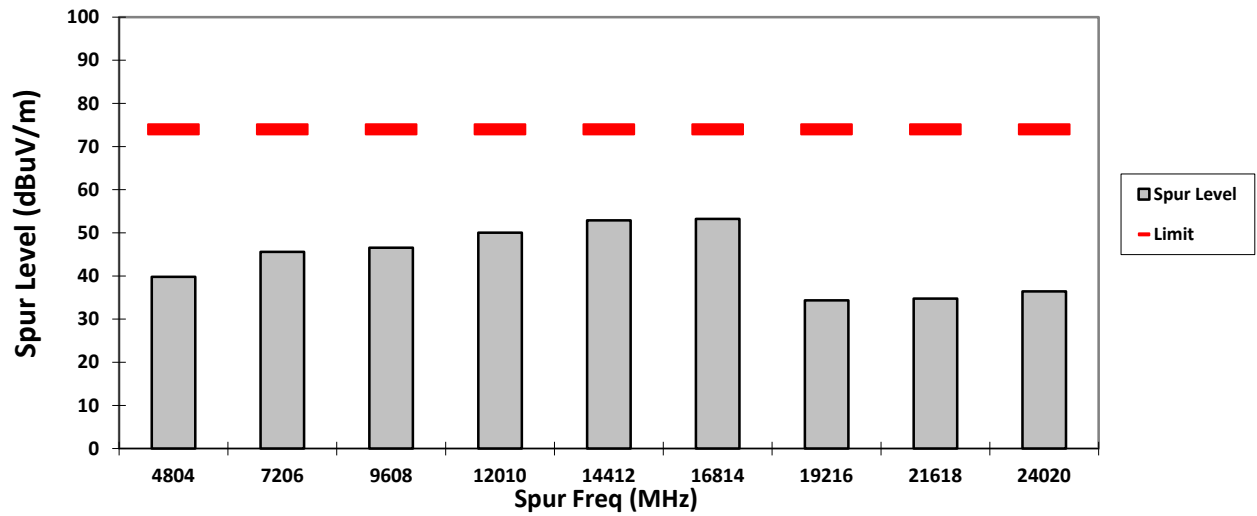
HORIZONTAL, QPK



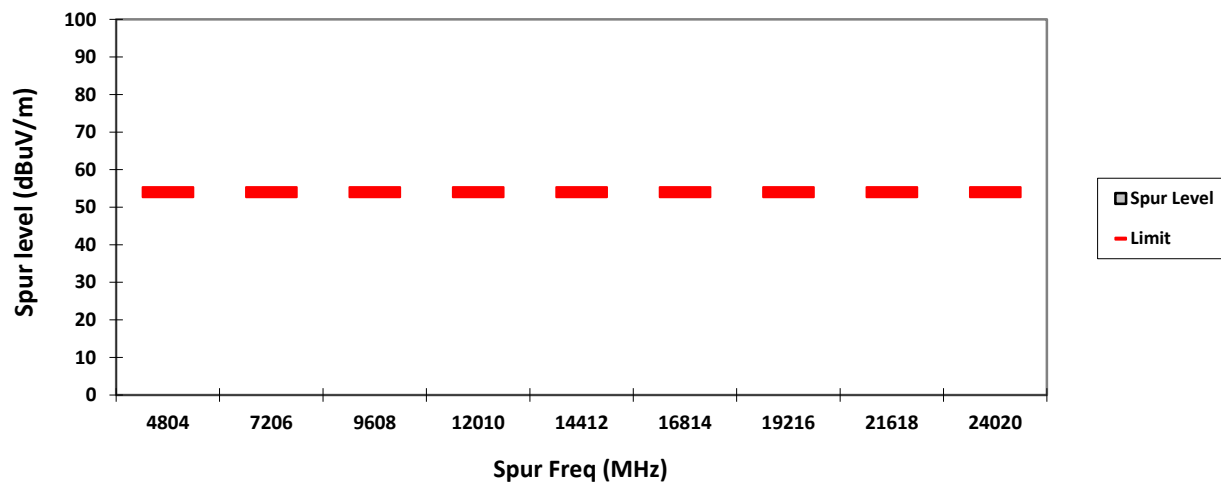
VERTICAL, PK



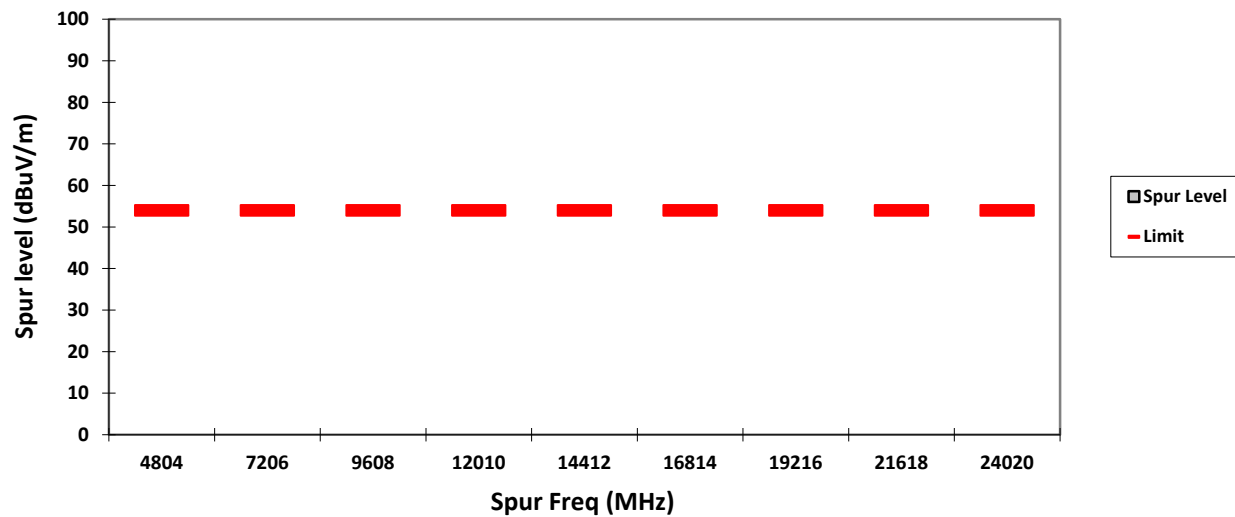
HORIZONTAL, PK



VERTICAL, AV



HORIZONTAL, AV



Test: Bluetooth SAC Transmitter Radiated Emission
Model#: AAH88JCD9SA2AN **S/N: 130TTK0360** **EMC SR ID#: 06406-EMC-00002**
Battery: PMNN4468A **Accessory: NA**
Test Channel: Mid **Test Frequency: 2441.0000 MHz** **Test Standard: ANSI C63.10-2013**
Worst Case Plane: Y-Plane (EDR 2 Π/4 DQPSK)

Radiated Emission (Mid Channel) tabular data

[illegible]

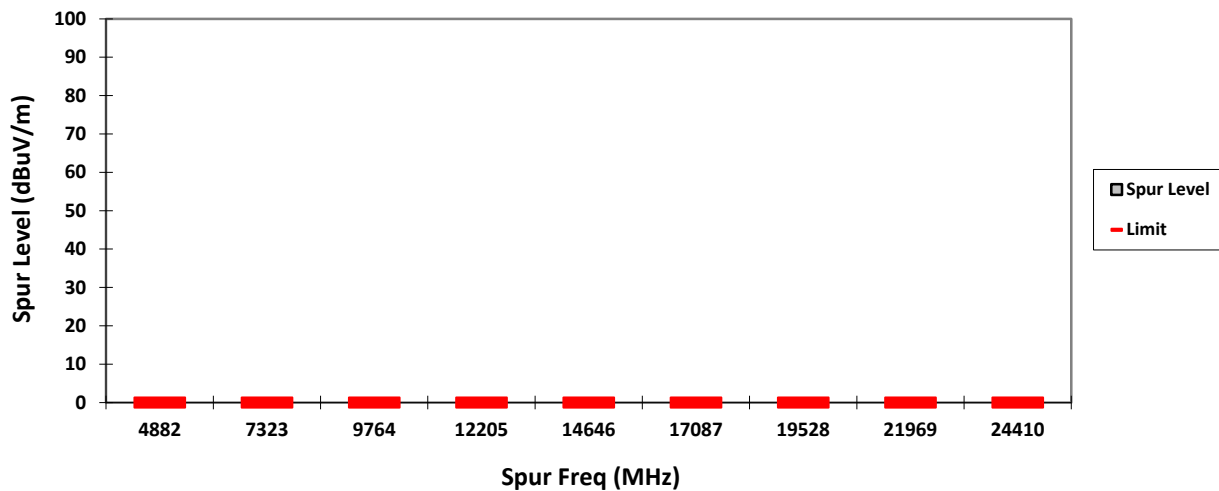
Remarks: Pass Result	Marginal Result	Fail Result
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Temperature (degC): 23.8
Test Performed by: Nazrin&Qawiman
System MU: 5.01dB

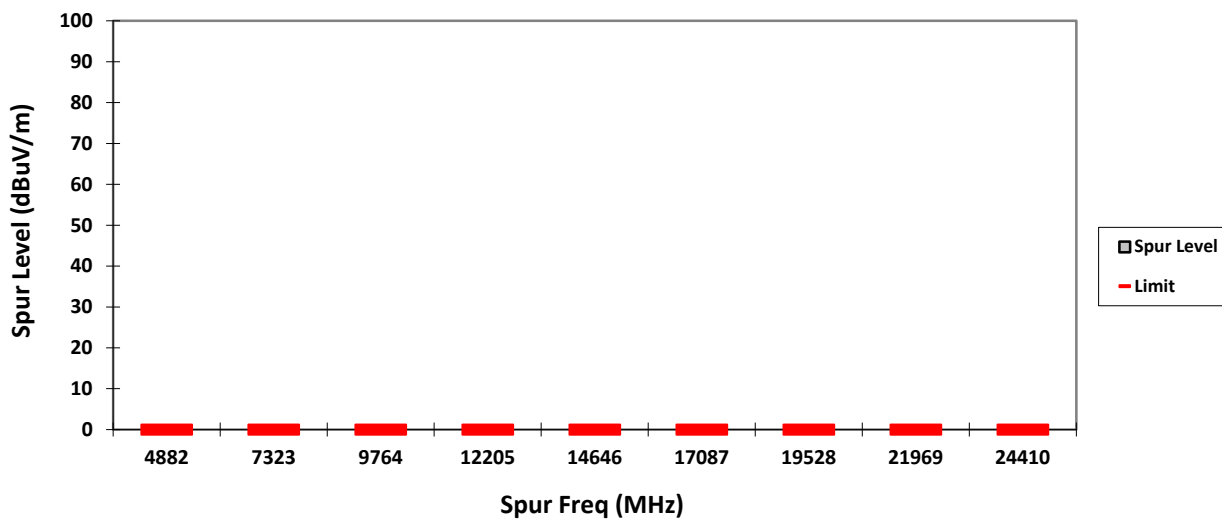
Humidity (%): 70.2
Test Date: Wed, Jun 07, 2017
Duty Cycle (%): 77

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.

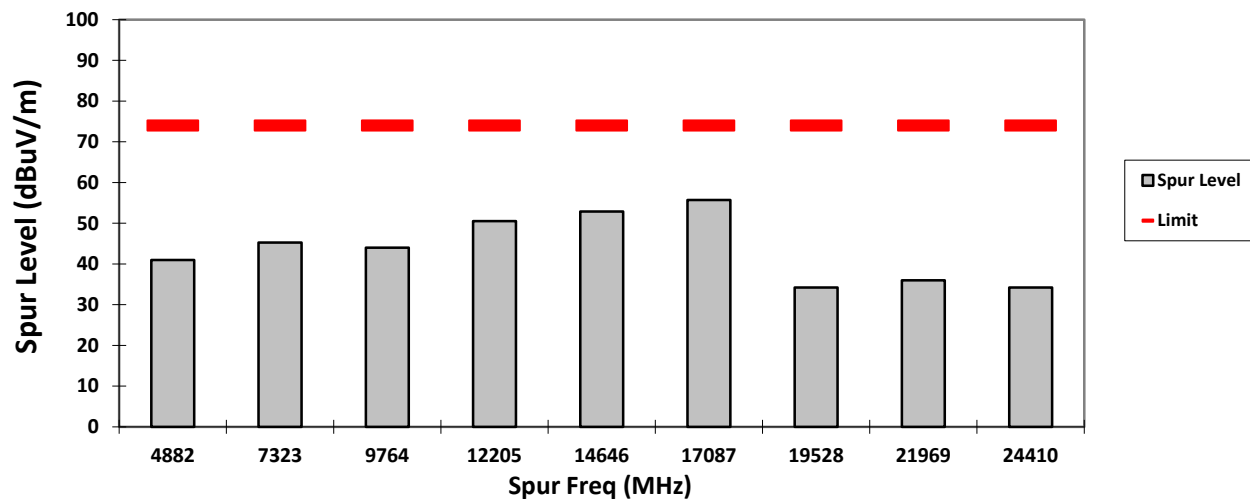
VERTICAL, QPK



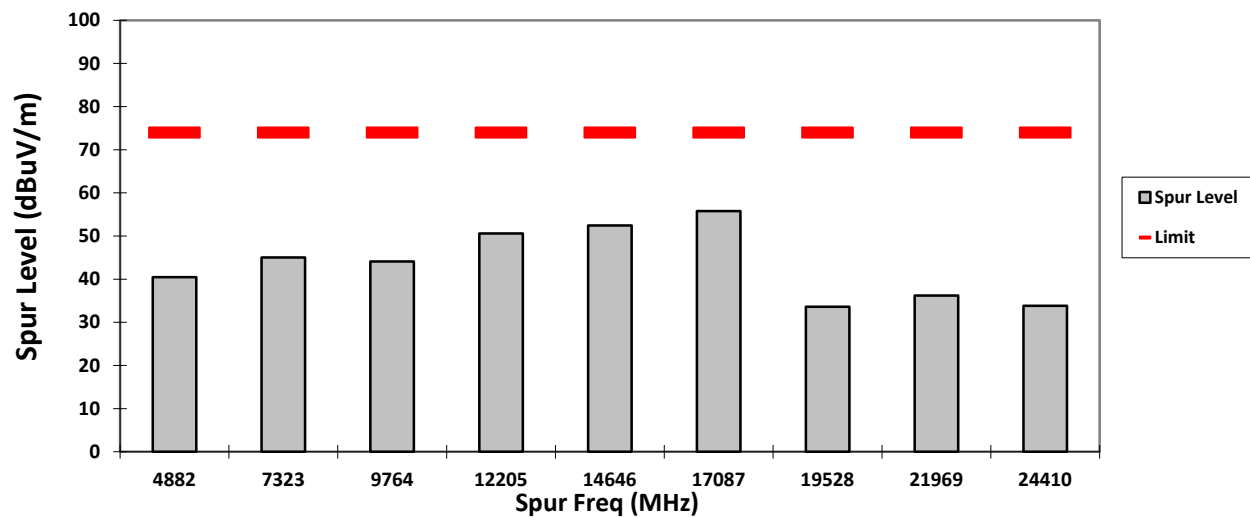
HORIZONTAL, QPK



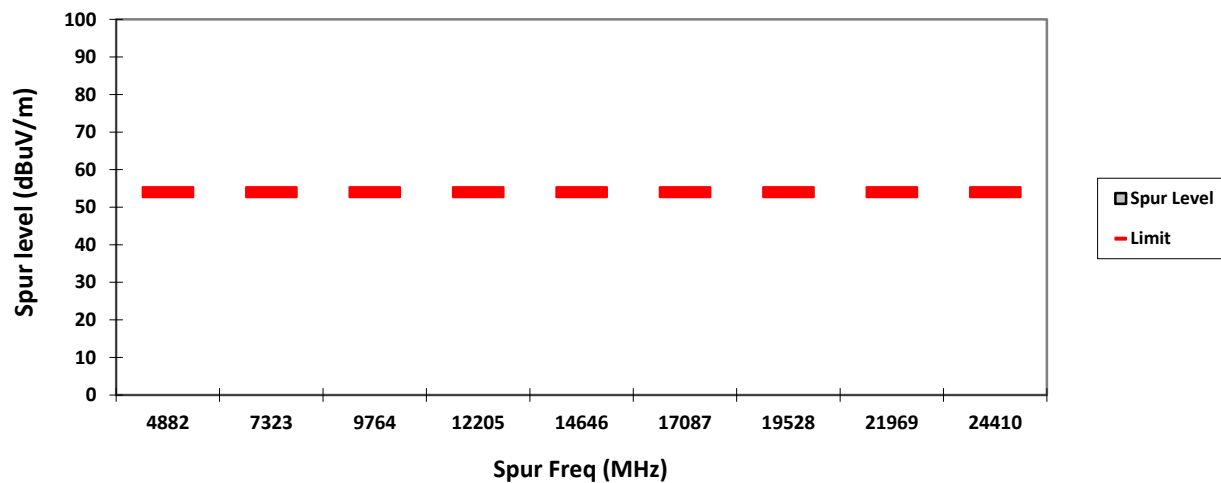
VERTICAL, PK



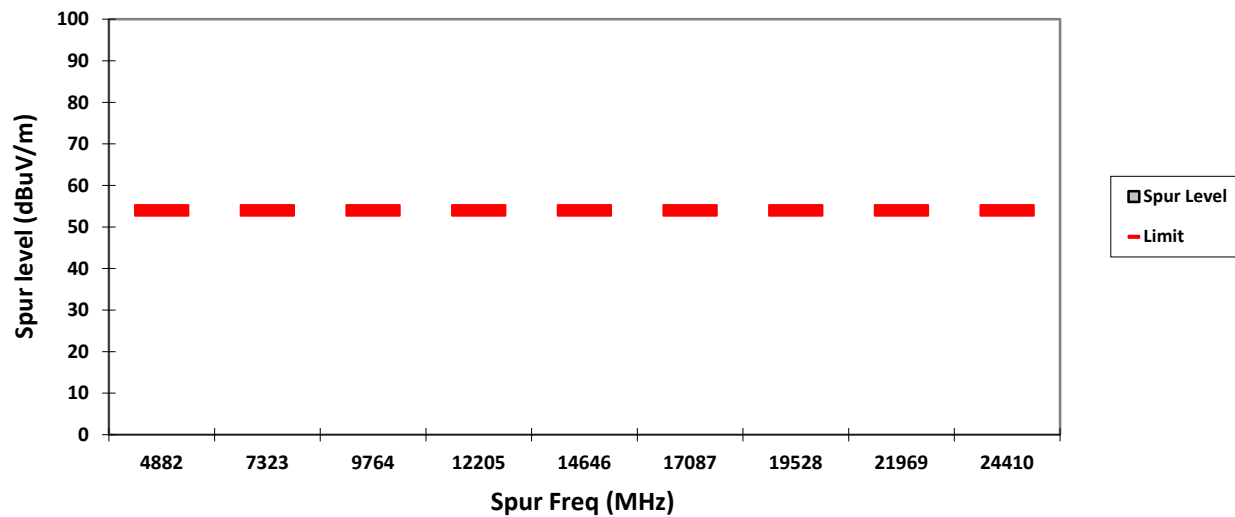
HORIZONTAL, PK



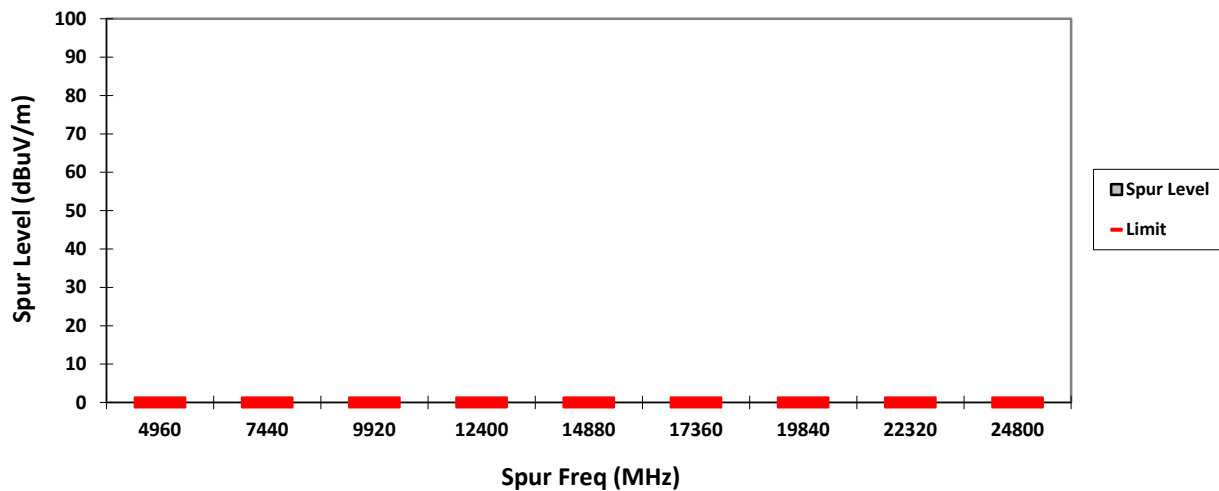
VERTICAL, AV



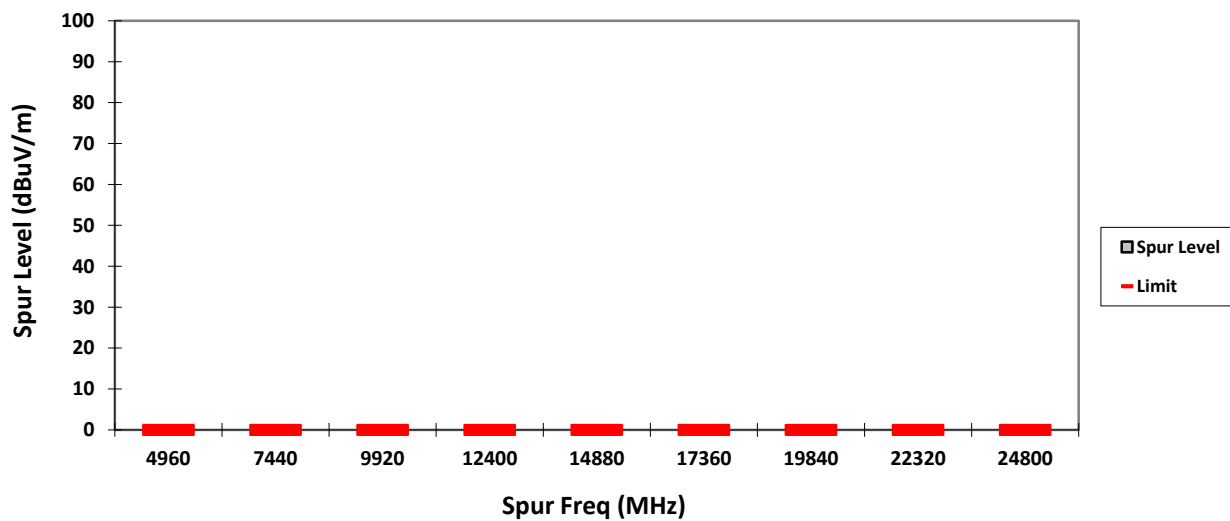
HORIZONTAL, AV



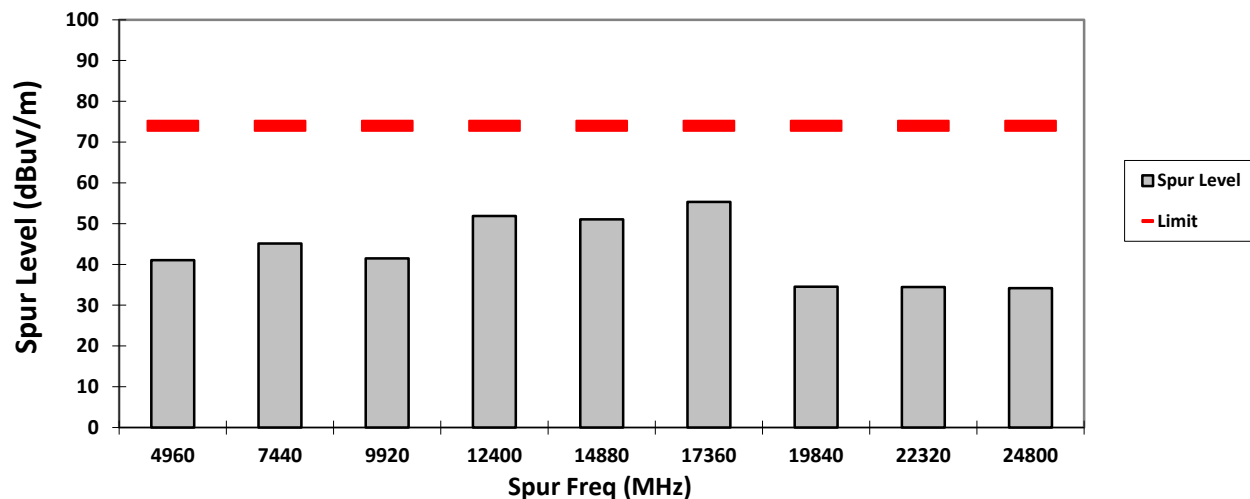
VERTICAL, QPK



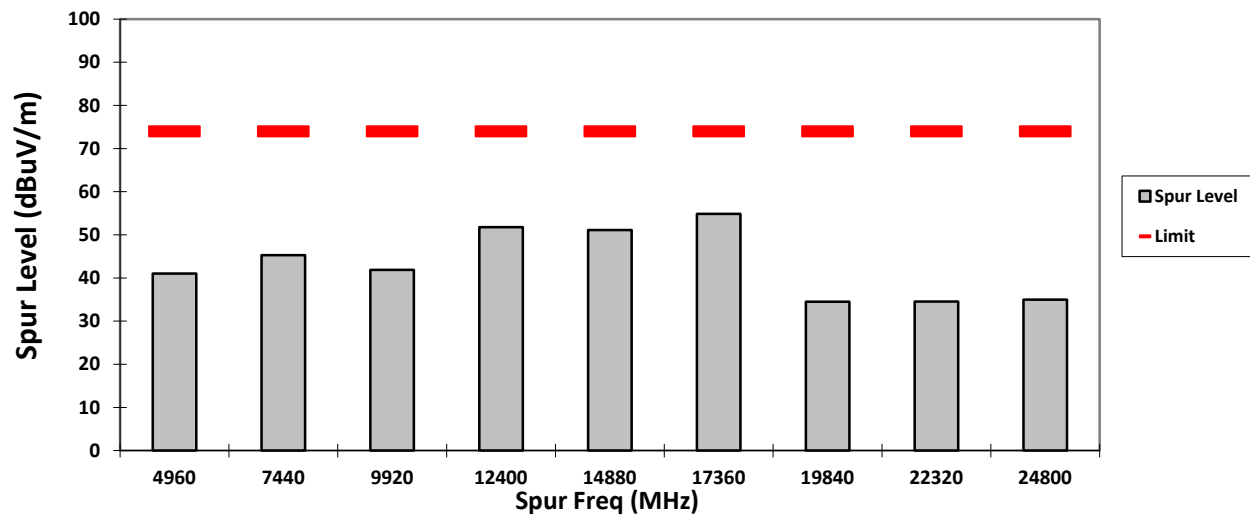
HORIZONTAL, QPK



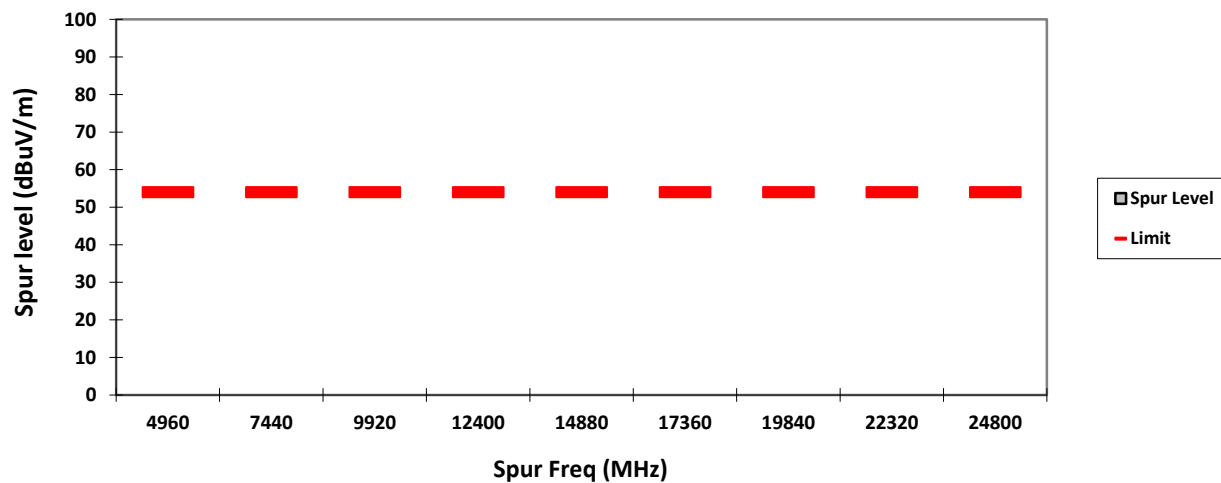
VERTICAL, PK



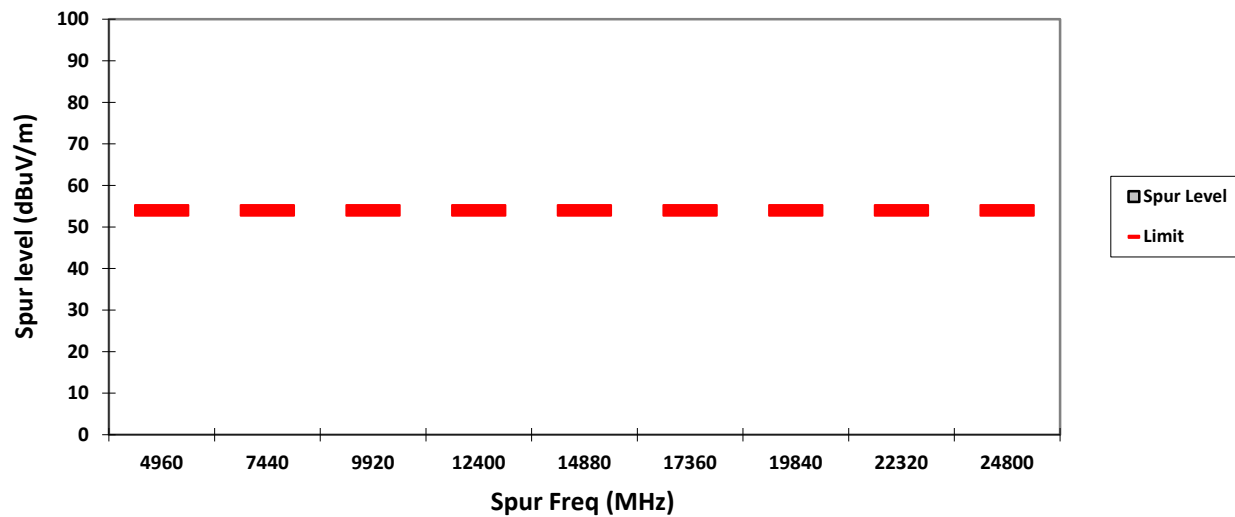
HORIZONTAL, PK



VERTICAL, AV



HORIZONTAL, AV



Test: Bluetooth SAC Transmitter Radiated Emission
Model#: AAH88JCD9SA2AN **S/N: 130TTK0360** **EMC SR ID#: 06406-EMC-00002**
Battery: PMNN4468A **Accessory: NA**
Test Channel: Low **Test Frequency: 2402.0000 MHz** **Test Standard: ANSI C63.10-2013**
Worst Case Plane: Y-Plane (8DPSK)

[illegible]

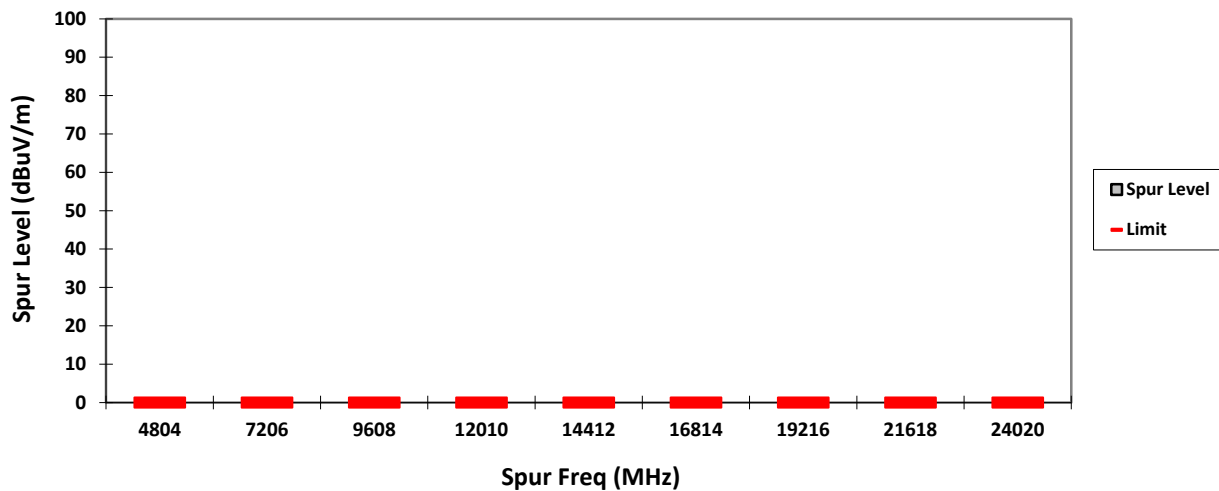
Remarks: Pass Result	Marginal Result	Fail Result
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Temperature (degC): 23.8
Test Performed by: Nazrin&Qawiman
System MU: 5.01dB

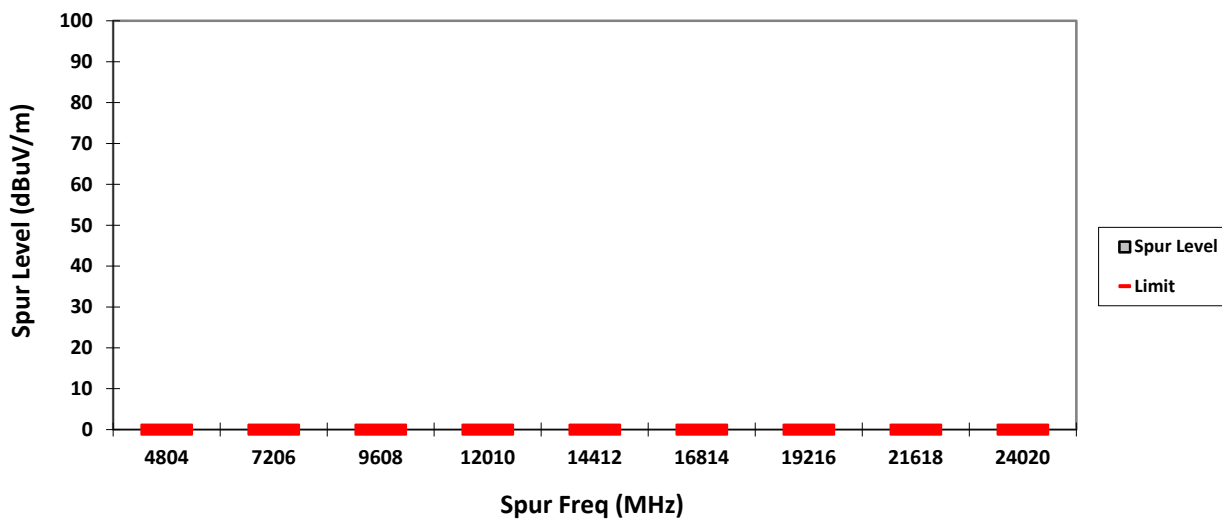
Humidity (%): 70.2
Test Date: Wed, Jun 07, 2017
Duty Cycle (%): 77

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.

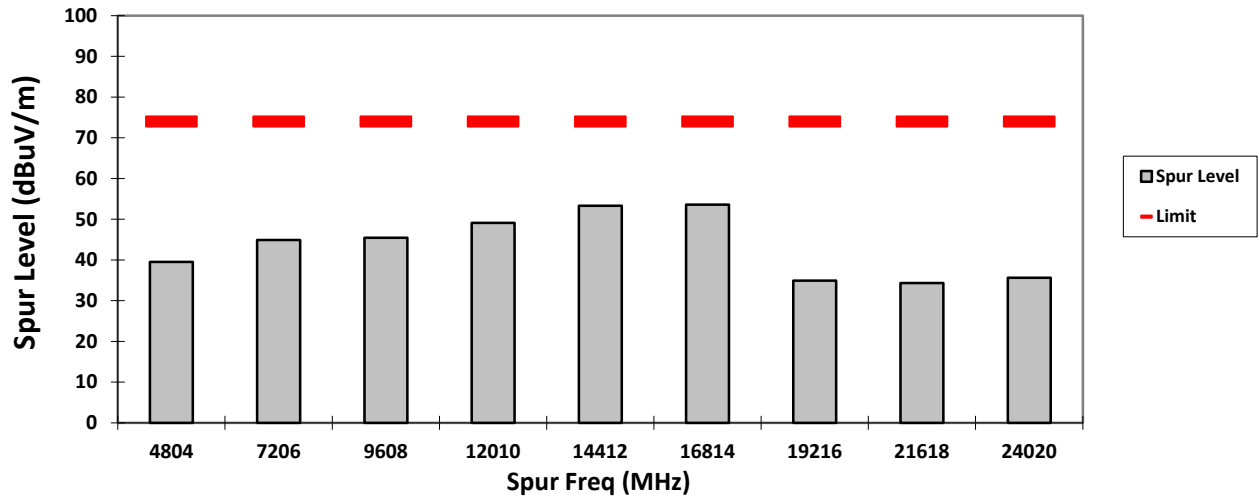
VERTICAL, QPK



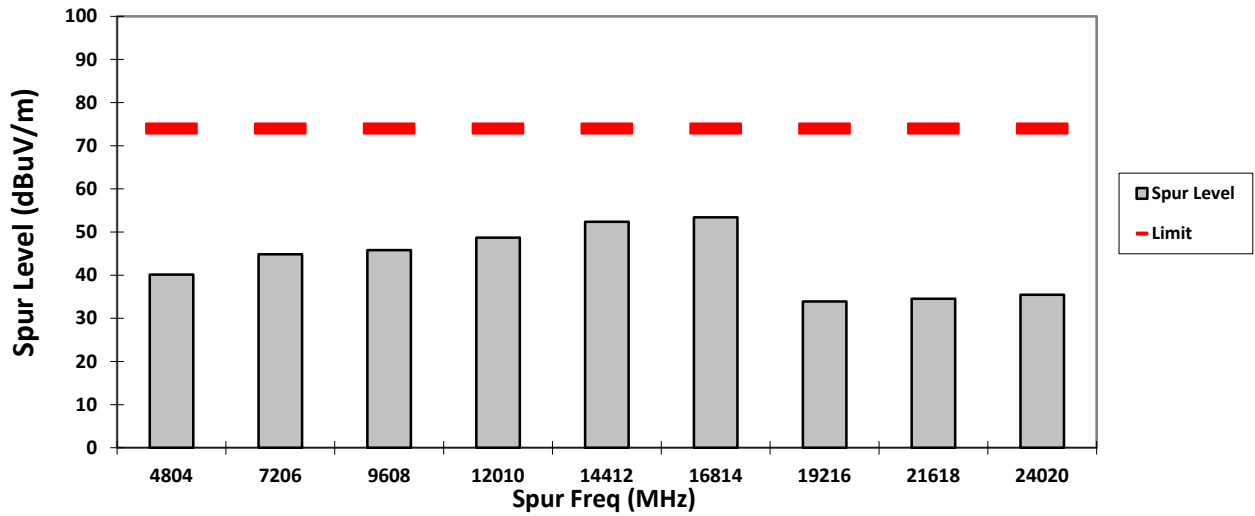
HORIZONTAL, QPK



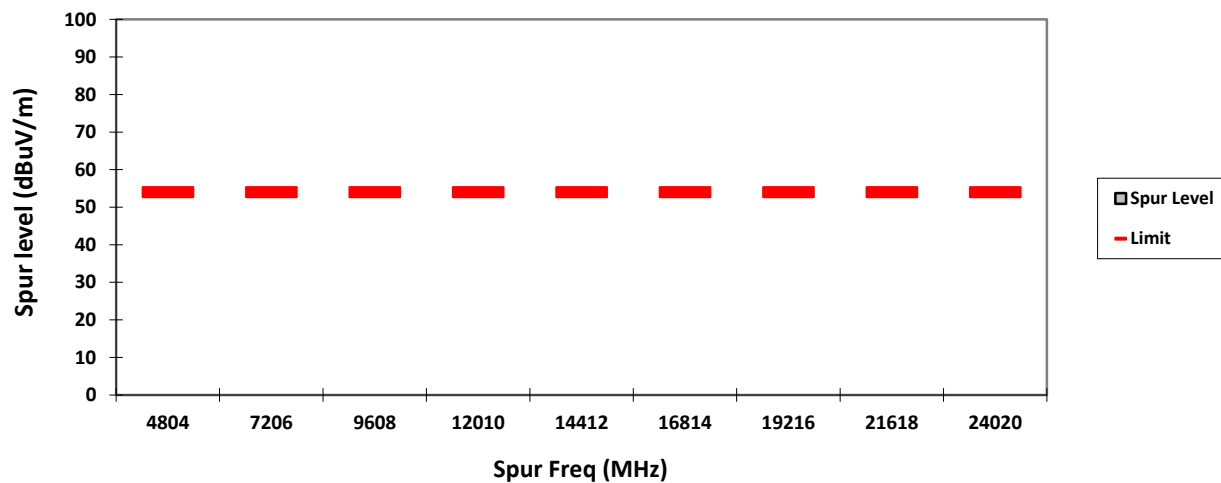
VERTICAL, PK



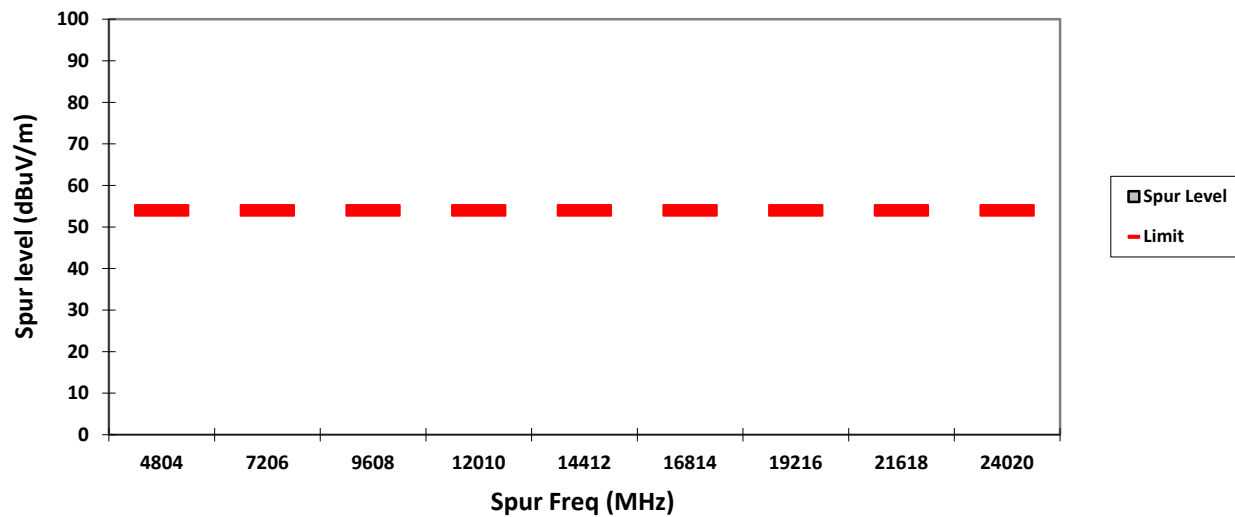
HORIZONTAL, PK



VERTICAL, AV



HORIZONTAL, AV



Test: Bluetooth SAC Transmitter Radiated Emission

Model#: AAH88JCD9SA2AN	S/N: 130TTK0360	EMC SR ID#: 06406-EMC-00002
Battery: PMNN4468A	Accessory: NA	
Test Channel: Mid	Test Frequency: 2441.0000 MHz	Test Standard: ANSI C63.10-2013
Worst Case Plane: Y-Plane (8DPSK)		

[illegible]

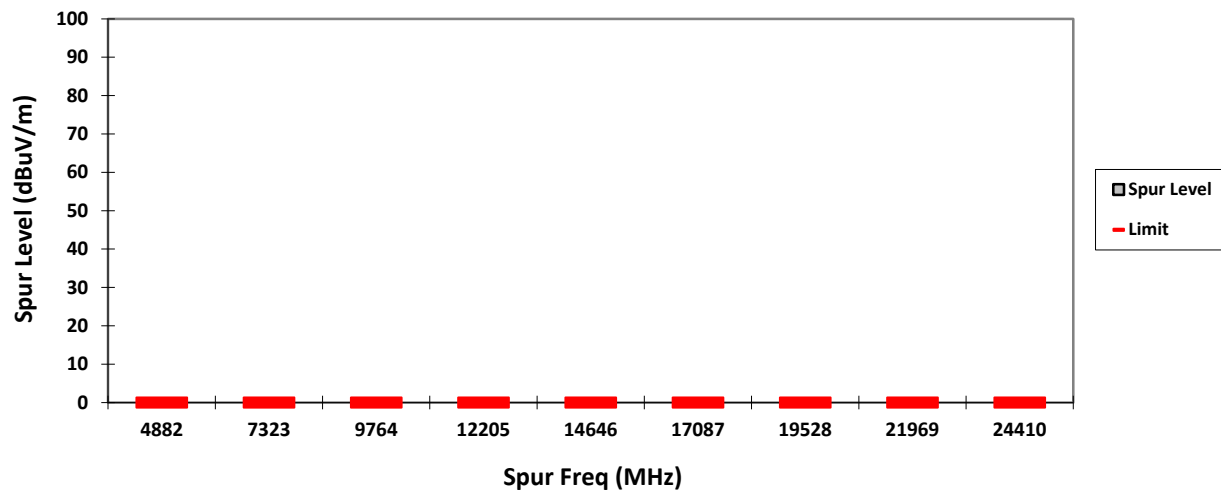
Remarks: Pass Result	Marginal Result	Fail Result
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Temperature (degC): 23.8
Test Performed by: Nazrin&Qawiman
System MU: 5.01dB

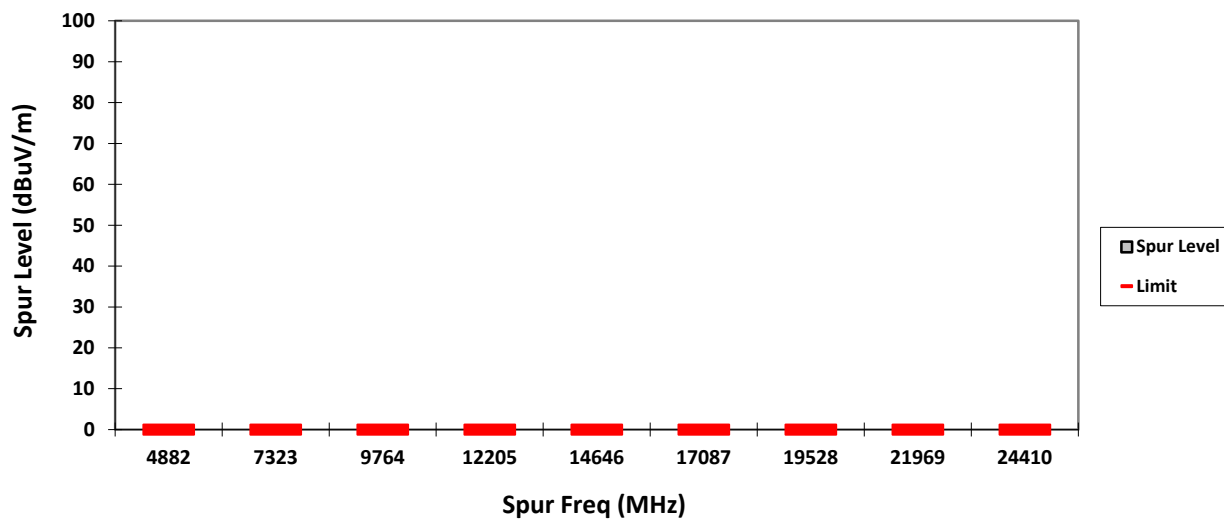
Humidity (%): 70.2
Test Date: Wed, Jun 07, 2017
Duty Cycle (%): 77

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.

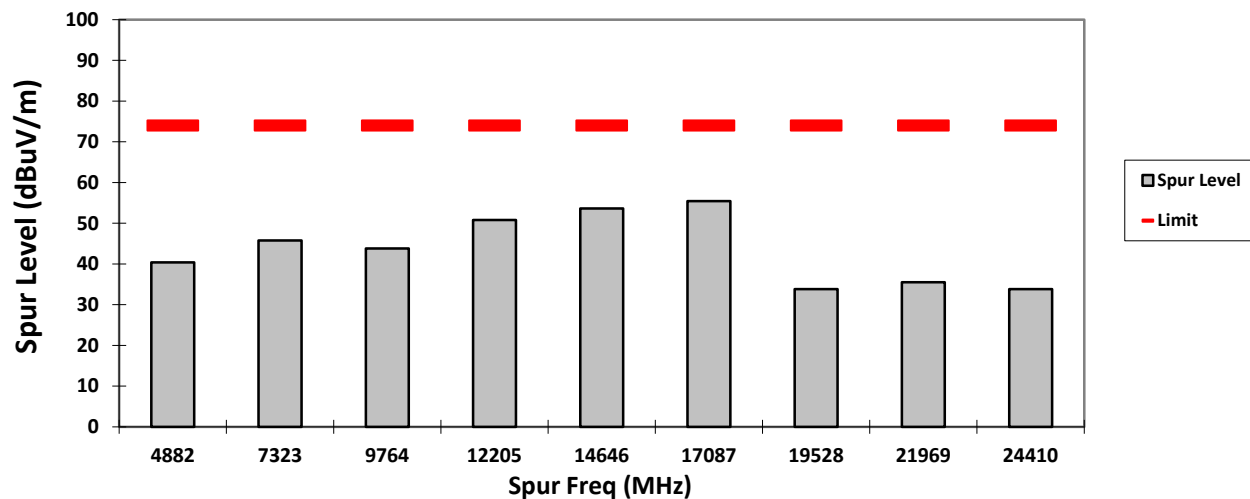
VERTICAL, QPK



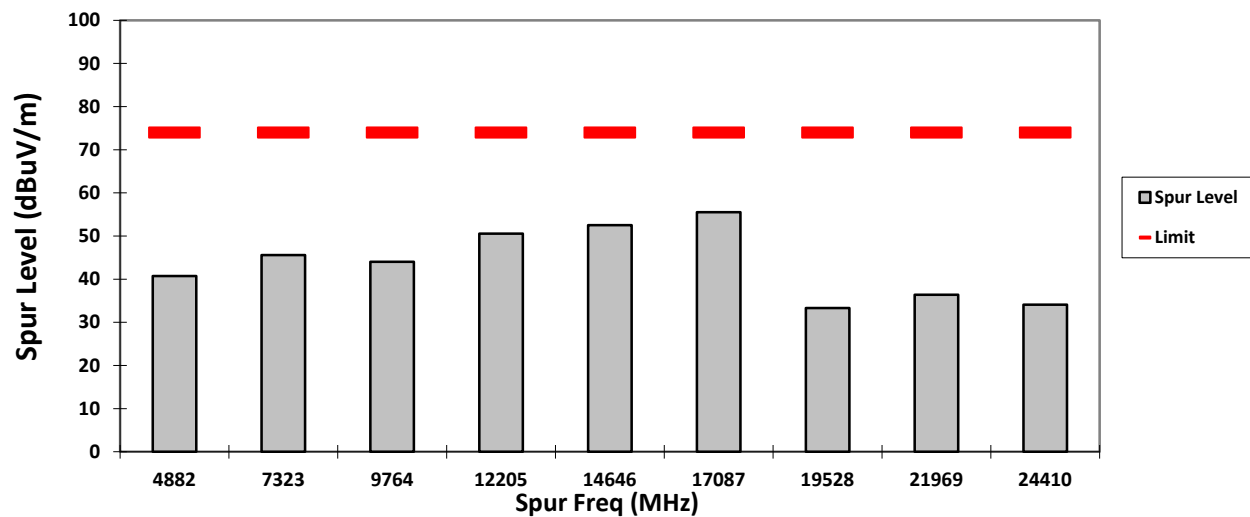
HORIZONTAL, QPK



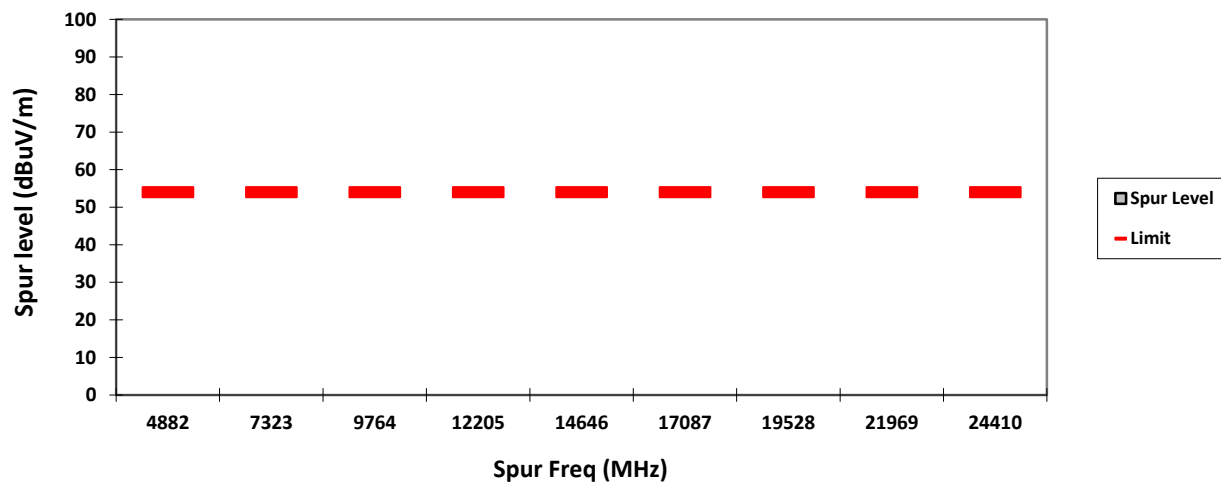
VERTICAL, PK



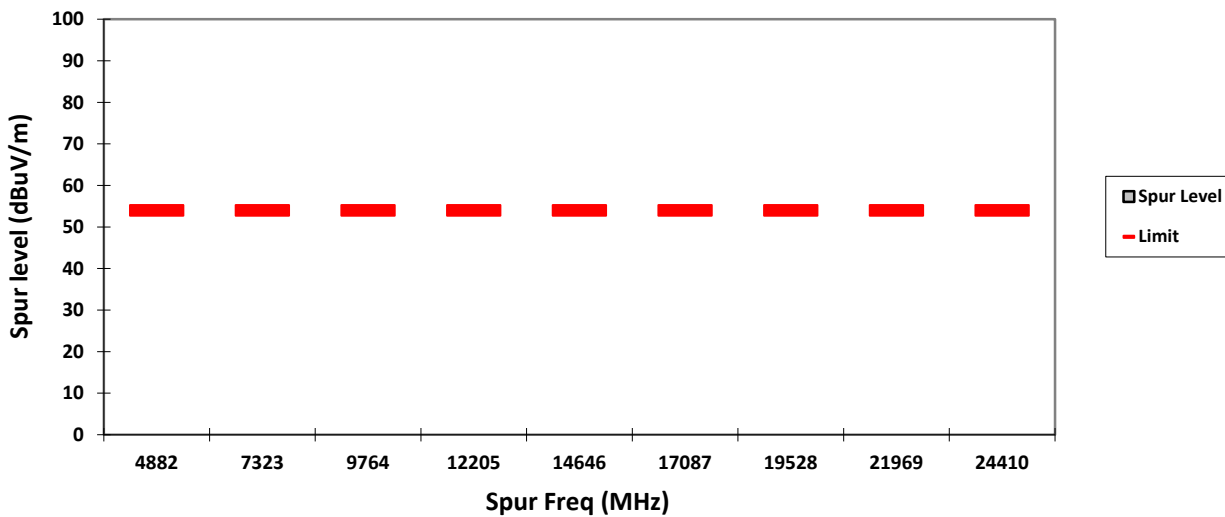
HORIZONTAL, PK



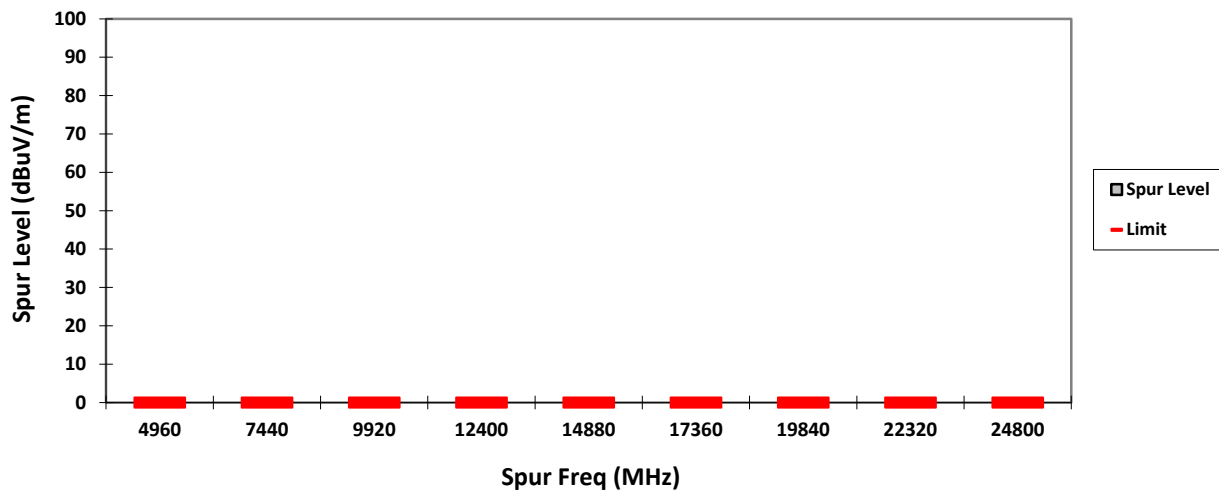
VERTICAL, AV



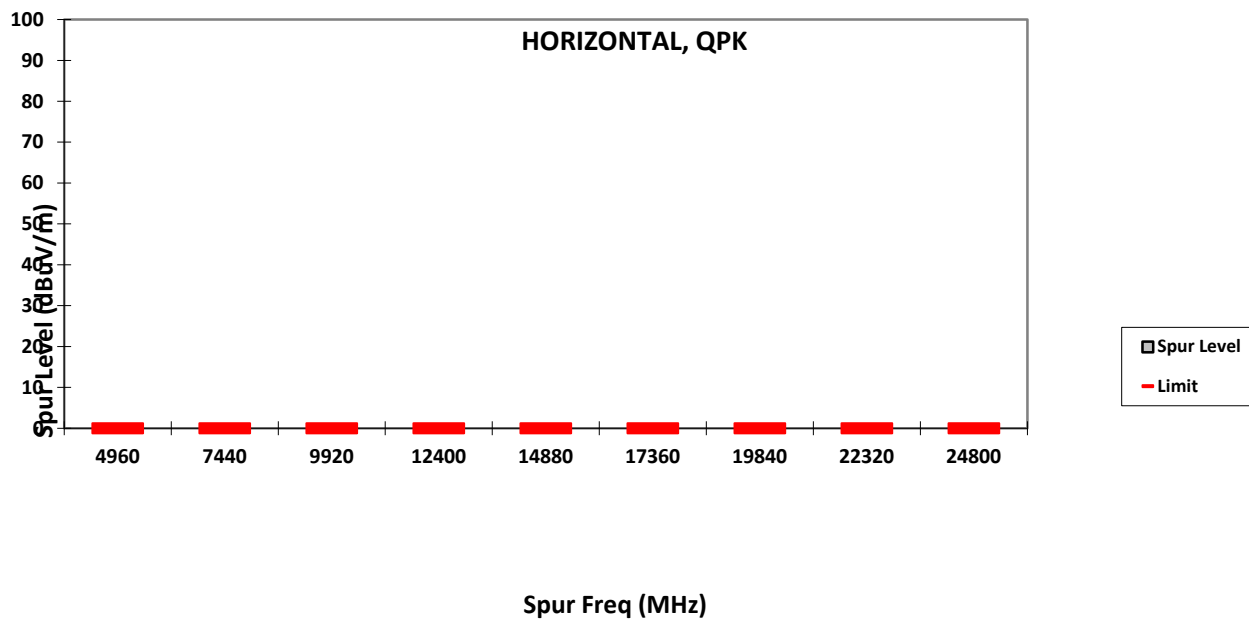
HORIZONTAL, AV



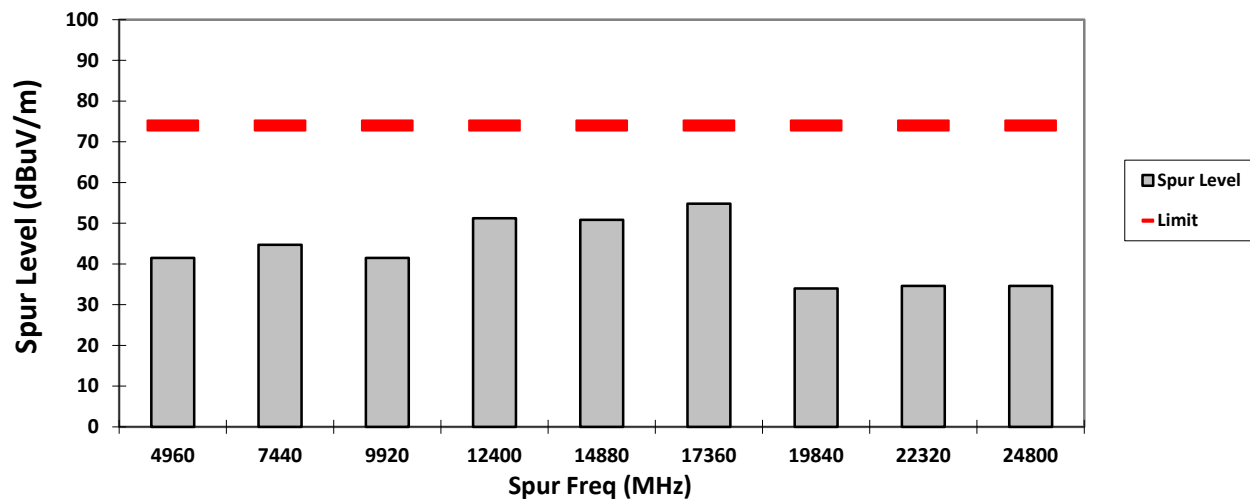
VERTICAL, QPK



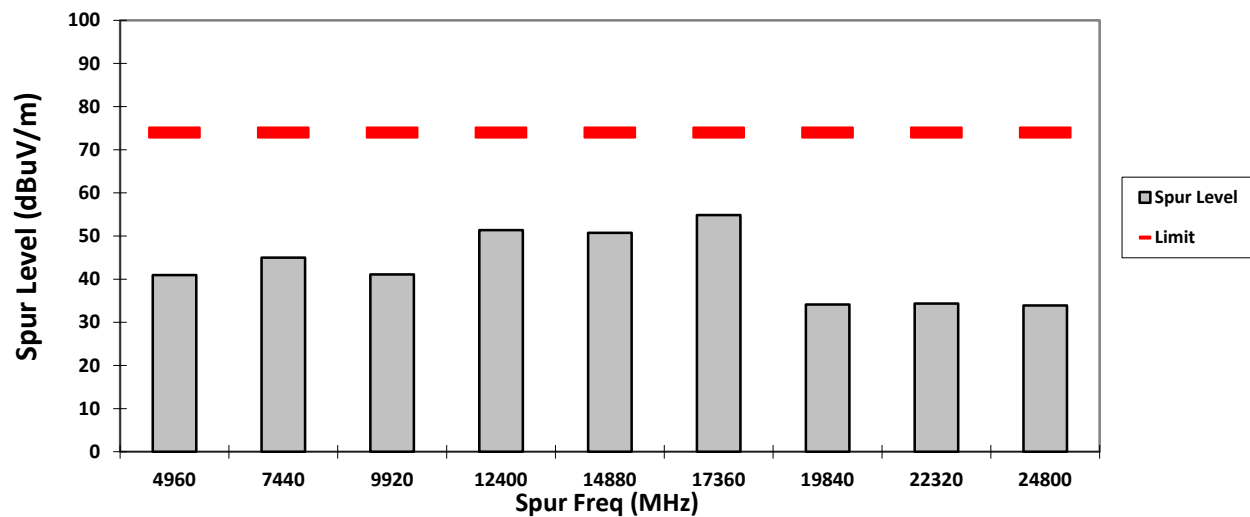
HORIZONTAL, QPK



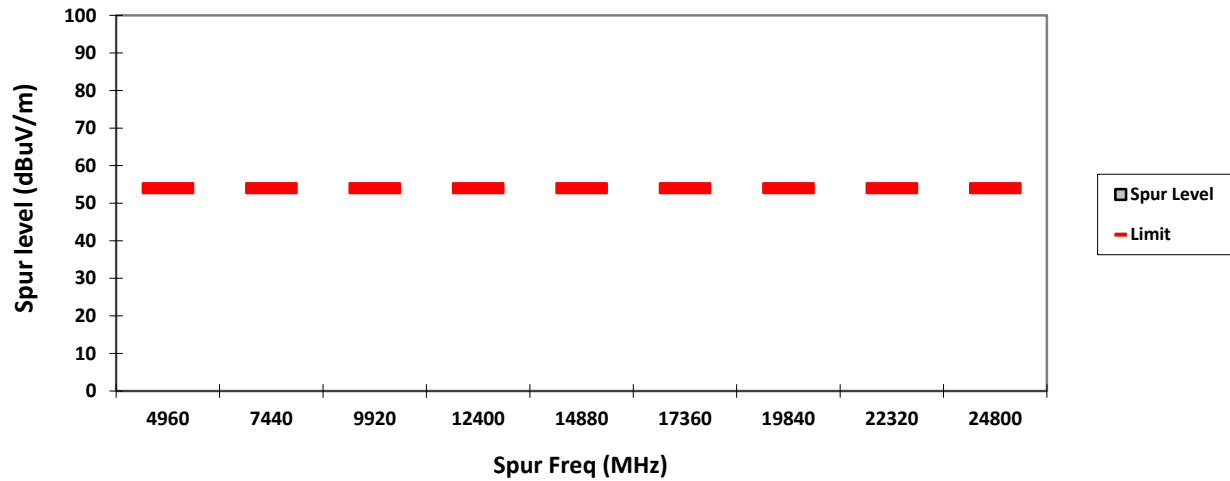
VERTICAL, PK



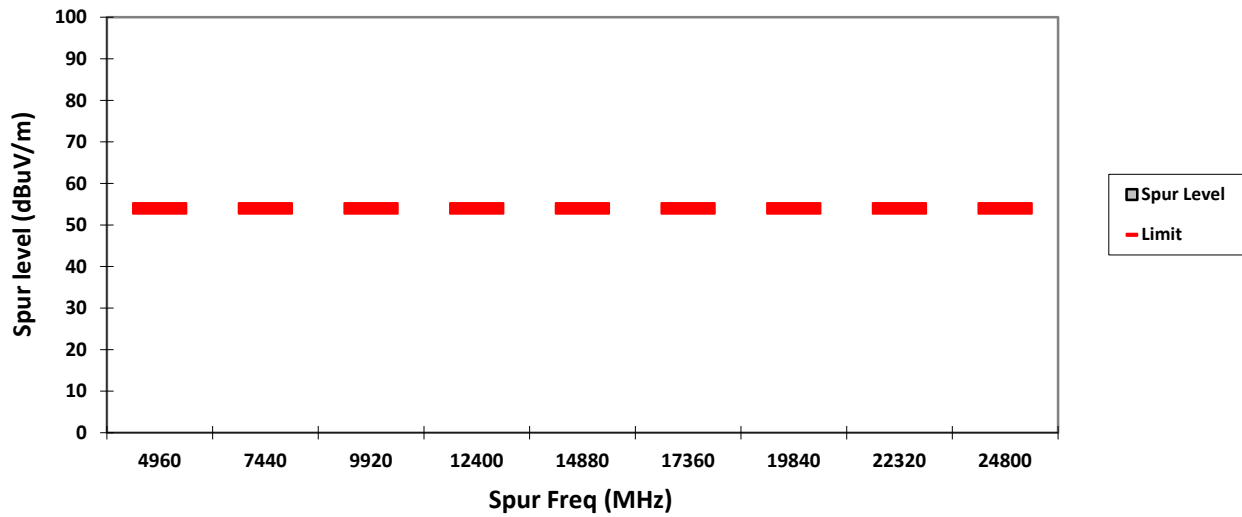
HORIZONTAL, PK



VERTICAL, AV



HORIZONTAL, AV



NOTE:

Transmitter Duty Cycle Calculation, FCC Rule 15.35 (b,c)

Based on the Bluetooth Specification Version 2.1+EDR, and worst case AFH mode, transmitter ON time is independent of packet type (DH1, DH3 and DH5) and packet length, the AFH mode Duty cycle connection factor as below:

Channel hop rate = 800 hops/second (AFH Mode)

Adjusted channel hop rate for DH5 mode = 133.33 hops/second

Time per channel hop = $1 / 133.33 \text{ hops/second} = 7.5 \text{ ms}$

Time to cycle through all channels = $7.5 \times 20 \text{ channels} = 150 \text{ ms}$

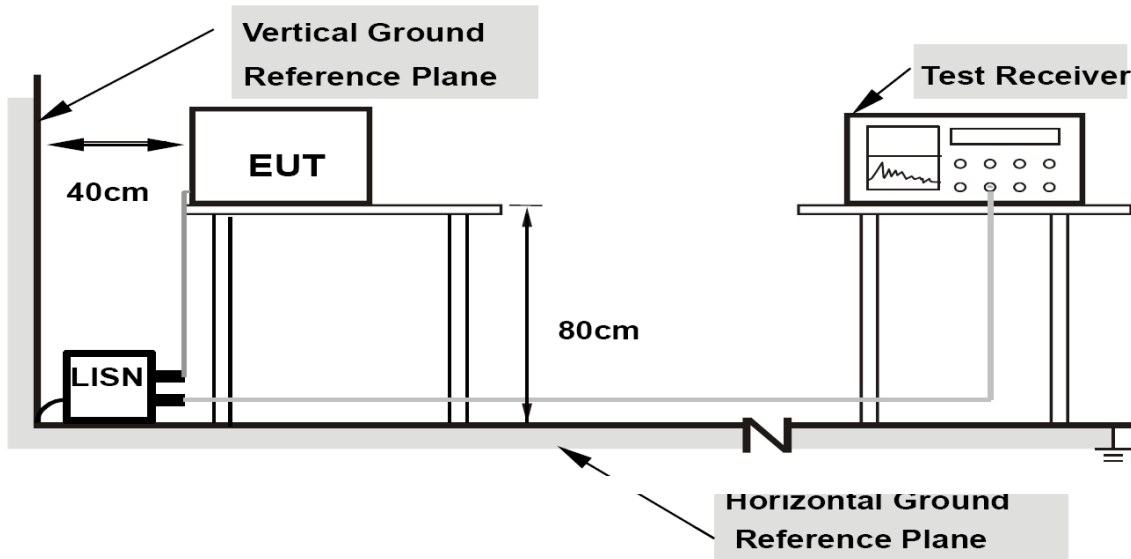
Number of times transmitter hits on one channel = $100 \text{ ms} / 150 \text{ ms} = 1 \text{ time(s)}$

Worst case dwell time = 7.5 ms

Duty cycle connection factor = $20\log_{10} (7.5\text{ms} / 100\text{ms}) = -22.5 \text{ dB}$

6.9. AC Powerline Conducted Emission

6.9.1. 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.

6.9.2. 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(μ V)	
	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(μ V)	
	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

6.9.3. Test Result

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