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FCC 15.247 DSS
2.4GHz Report

for

FUTABA Corporation

1080 YabutsukaChosei-son Chosei-gun
Chiba, 299-4395 Japan.

Brand	**:**	**Futaba**
Product Name	**:**	**Radio Control**
Model Name	**:**	**T3PV**
FCC ID	**:**	**AZPT3PV-24G**

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APPENDIX A TEST PLOTS
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TEST REPORT CERTIFICATION

Applicant	:	FUTABA Corporation
Manufacture	:	FUTABA Corporation
Product Name	:	Radio Control
Model No.	:	T3PV
Serial No.	:	N/A
Brand	:	Futaba

Rules of Compliance and Measurement Standards:

FCC 47 CFR Part 15 Subpart C:2015
ANSI C63.10:2013
FCC Public Notice DA 00-705

AUDIX Technology Corp. tested the equipment mentioned in accordance with the requirements set forth in the above standards. Test results indicate that the equipment tested is capable of demonstrating compliance with the requirements as documented within this report. ***AUDIX Technology Corp.*** does not assume responsibility for any conclusions and generalizations drawn from the test results with regard to other specimens and samples.

Date of Test: 2016. 04. 12 ~ 25 Date of Report: 2016. 04. 25

Producer: Annie Yu
(Annie Yu/Administrator)

Signatory: Ben Cheng
(Ben Cheng/Manager)

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1. REPORT HISTORY

Revision	Date	Revision Summary	Report Number
0	2016. 04. 25	Original Report.	EM-F160173

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2. SUMMARY OF TEST RESULTS

Rule	Description	Results
15.207	Conducted Emission	**N/A**
15.247(d)/15.209	Radiated Band Edge and Radiated Spurious Emission	**PASS**
15.247(a)(1)	20dB Bandwidth	**PASS**
15.247(a)(1)	Carrier Frequency Separation	**PASS**
15.247(a)(1)(iii)	Time of Occupancy	**PASS**
15.247(a)(1)(iii)	Number of Hopping Channels	**PASS**
15.247(b)(1)	Maximum Peak Output Power	**PASS**
15.247(d)/15.205	Conducted Band Edges and Conducted Spurious Emission	**PASS**
15.203	Antenna Requirement	**PASS**
Note: The EUT only employs battery power for operation, so it is unnecessary to test.		

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3. GENERAL INFORMATION

3.1. Description of EUT

Product	Radio Control
Model Number	T3PV
Serial Number	N/A
Brand Name	Futaba
Applicant	FUTABA Corporation 1080 YabutsukaChosei-son Chosei-gun Chiba, 299-4395 Japan.
Manufacture	FUTABA Corporation 1080 YabutsukaChosei-son Chosei-gun Chiba, 299-4395 Japan.
Transmit Type	1T1R
Device Category	☐Outdoor Access Point ☐Fixed point-to-point Access Point ☐Indoor Access Point ▩Mobile and Portable client device
Date of Receipt of Sample	2016. 02. 26

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3.2. EUT Specifications Assessed in Current Report

Fundamental Range (MHz)	Channel Number	Modulation	Data Rate (kbps)
2407.5-2467.5	31	T-FHSS	128
2403.25-2447.50	60	S-FHSS	128

Modulation: T-FHSS			
Channel List			
Channel Number	Frequency (MHz)	Channel Number	Frequency (MHz)
1	2407.5	17	2439.5
2	2409.5	18	2441.5
3	2411.5	19	2443.5
4	2413.5	20	2445.5
5	2415.5	21	2447.5
6	2417.5	22	2449.5
7	2419.5	23	2451.5
8	2421.5	24	2453.5
9	2423.5	25	2455.5
10	2425.5	26	2457.5
11	2427.5	27	2459.5
12	2429.5	28	2461.5
13	2431.5	29	2463.5
14	2433.5	30	2465.5
15	2435.5	31	2467.5
16	2437.5		

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Modulation: S-FHSS					
Channel List					
Channel Number	Frequency (MHz)	Channel Number	Frequency (MHz)	Channel Number	Frequency (MHz)
1	2403.25	21	2418.25	41	2433.25
2	2404.00	22	2419.00	42	2434.00
3	2404.75	23	2419.75	43	2434.75
4	2405.50	24	2420.50	44	2435.50
5	2406.25	25	2421.25	45	2436.25
6	2407.00	26	2422.00	46	2437.00
7	2407.75	27	2422.75	47	2437.75
8	2408.50	28	2423.50	48	2438.50
9	2409.25	29	2424.25	49	2439.25
10	2410.00	30	2425.00	50	2440.00
11	2410.75	31	2425.75	51	2440.75
12	2411.50	32	2426.50	52	2441.50
13	2412.25	33	2427.25	53	2442.25
14	2413.00	34	2428.00	54	2443.00
15	2413.75	35	2428.75	55	2443.75
16	2414.50	36	2429.50	56	2444.50
17	2415.25	37	2430.25	57	2445.25
18	2416.00	38	2431.00	58	2446.00
19	2416.75	39	2431.75	59	2446.75
20	2417.50	40	2432.50	60	2447.50

3.3. Antenna Information

Manufacture	Antenna Type	Frequency	Max Gain (dBi)
WAN SHIH ELECTRONIC (H.K) CO.,LTD	1/2λ Print Pattern Type	2.4GHz	2.14

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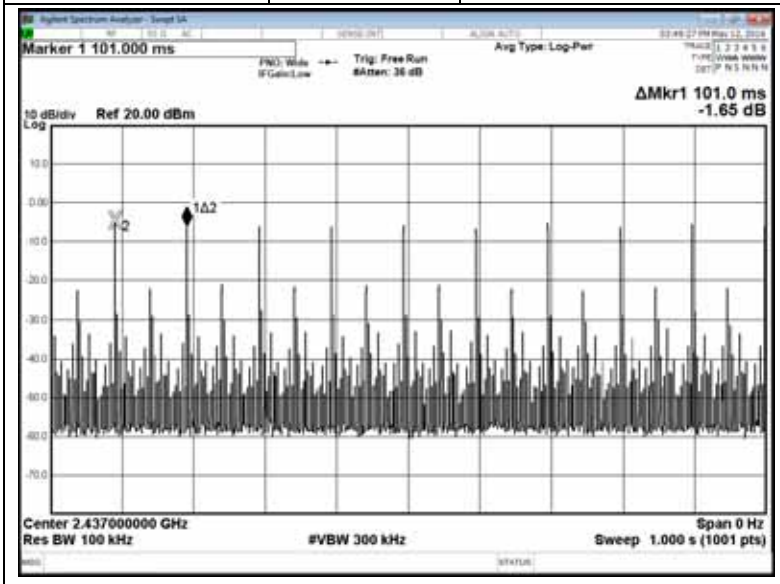
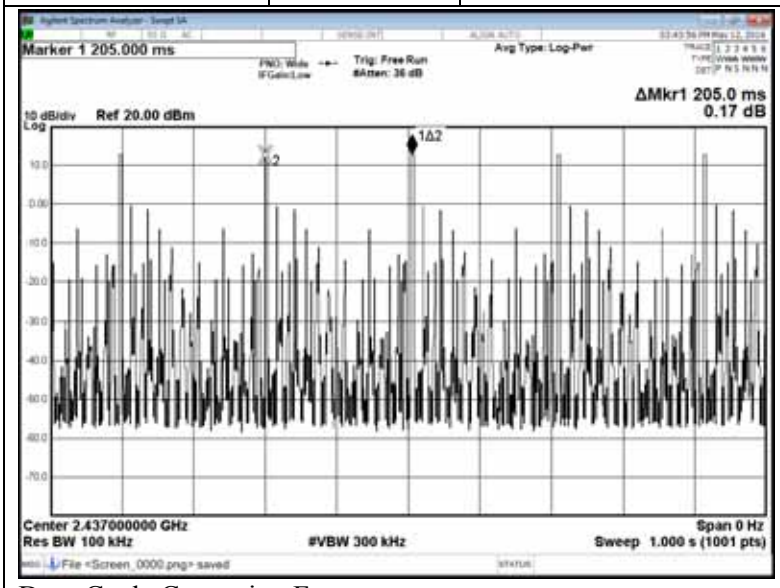
3.4. Test Configuration

Modulation	Duty Cycle (x)	T (ms)	Duty Cycle Factor (dB)
T-FHSS	0.42	100	-47.54
	 Duty Cycle Correction Factor = 20log(dwell time/100ms)=20log(0.42ms/100ms)= -47.54		
S-FHSS	1.445	100	-36.80
	 Duty Cycle Correction Factor = 20log(dwell time/100ms)=20log(1.445ms/100ms)= -36.80		

Note: When duty cycle is less than 98% (0.98) that duty cycle factor 10log(1/x) is needed to add in conducted test items measured in average detector.

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Item		Modulation	Test Channel
Radiated Test Case	Radiated Band Edge Note1	T-FHSS	1/31
		S-FHSS	1/60
	Radiated Spurious Emission Note1	T-FHSS	1/15/31
		S-FHSS	1/30/60
Conducted Test Case	20dB Bandwidth	T-FHSS	1/15/31
		S-FHSS	1/30/60
	Carrier Frequency Separation	T-FHSS	1/15/31
		S-FHSS	1/30/60
	Time of Occupancy	T-FHSS	1/15/31
		S-FHSS	1/30/60
	Number of Hopping Channels	T-FHSS	15
		S-FHSS	30
	Maximum Peak Output Power	T-FHSS	1/15/31
		S-FHSS	1/30/60
	Band Edges	T-FHSS	1/31
		S-FHSS	1/60
	Spurious Emission	T-FHSS	1/15/31
		S-FHSS	1/30/60

Note 1:

□Mobile Device

■Portable Device, and 3 axis were assessed. The worst scenario for Radiated Spurious Emission as follow:

□ Lie

□ Side

■ Stand

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3.5. Tested Supporting System List

3.5.1. Support Peripheral Unit

No.	Product	Brand	Model No.	Serial No.	FCC ID
1.	Notebook PC	IBM	2652	99NXMML	ANOVNCBD C80211B
2.	Test JIG	N/A	N/A	N/A	N/A
3.	DC Power Supply	TOP WARD	3303A	721773	N/A

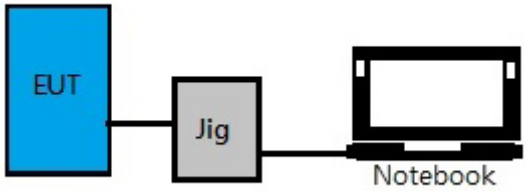
3.5.2. Cable Lists

No.	Cable Description Of The Above Support Units
1.	USB Cable: Shielded, Detachable, 1.5m
2.	Bus Cord: Unshielded, Detachable, 1.5m
23	DC Power Cord*2: Unshielded, Detachable, 2.0m

3.6. Setup Configuration

3.6.1. EUT Configuration for Power Line Emission

3.6.2. EUT Configuration for Conducted Test Items



3.7. Operating Condition of EUT

Test program “Futaba Term” is used for enabling EUT RF function under continues transmitting and choosing data rate/ channel.

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3.8. Description of Test Facility

Test Firm Name	:	**AUDIX Technology Corporation** **EMC Department** No. 53-11, Dingfu, Linkou Dist., New TaipeiCity 244, Taiwan
Test Location& Facility	:	No. 53-11, Dingfu, Linkou Dist., New TaipeiCity 244, Taiwan
NVLAP Lab. Code	:	200077-0
TAF Accreditation No	:	1724

3.9. Measurement Uncertainty

Test Item	Frequency Range	Uncertainty
Radiation Test (Distance: 3m)	30MHz~300MHz	± 3.64dB
	300MHz~1000MHz	± 4.70dB
	Above 1GHz	± 1.60dB

Remark：Uncertainty = $ku_c(y)$

Test Item	Uncertainty
20dB Bandwidth	±0.2kHz
Carrier Frequency Separation	±0.2kHz
Time of Occupancy	±0.03sec
Maximum peak Output power	± 0.52dB
Conducted Emission Limitations	± 0.13dB

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4. MEASUREMENT EQUIPMENTLIST

4.1. Radiated Emission Measurement

4.1.1. Frequency Range 30MHz~1000MHz

Item	Type	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Interval
1.	Spectrum Analyzer	Agilent	N9010A-526	MY53400071	2015. 09. 14	1 Year
2.	Test Receiver	R&S	ESCS30	100338	2015. 06. 24	1 Year
3.	Amplifier	HP	8447D	2944A06305	2016. 02. 23	1 Year
4.	Bilog Antenna	TESEQ	CBL6112D	33821	2016. 01. 30	1 Year
5.	Test Software	Audix	e3	V.6.110601	N.C.R.	N.C.R.

4.1.2. Frequency Range 30MHz~1000MHz

Item	Type	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Interval
1.	Spectrum Analyzer	Agilent	E4446A	US44300366	2015. 08. 20	1 Year
2.	Pre-Amplifier	HP	8449B	3008A02678	2016. 03. 04	1 Year
3.	2.4GHz Notch Filter	K&L	7NSL10-2441.5E130.5-00	1	2015. 07. 22	1 Year
4.	Horn Antenna	ETS-Lindgren	3117	00135902	2016. 03. 09	1 Year
5.	Horn Antenna	EMCO	3116	2653	2015. 10. 20	1 Year
6.	Test Software	Audix	e3	V.6.110601	N.C.R.	N.C.R.

4.2. RF Conducted Measurement

Item	Type	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Interval
1.	Spectrum Analyzer	Agilent	N9030A-544	US51350140	2015. 06. 10	1 Year

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5. CONDUCTED EMISSION MEASUREMET

【The EUT only employs battery power for operation, no conductive emission limits are required according to FCC Part 15 Section §15.207】

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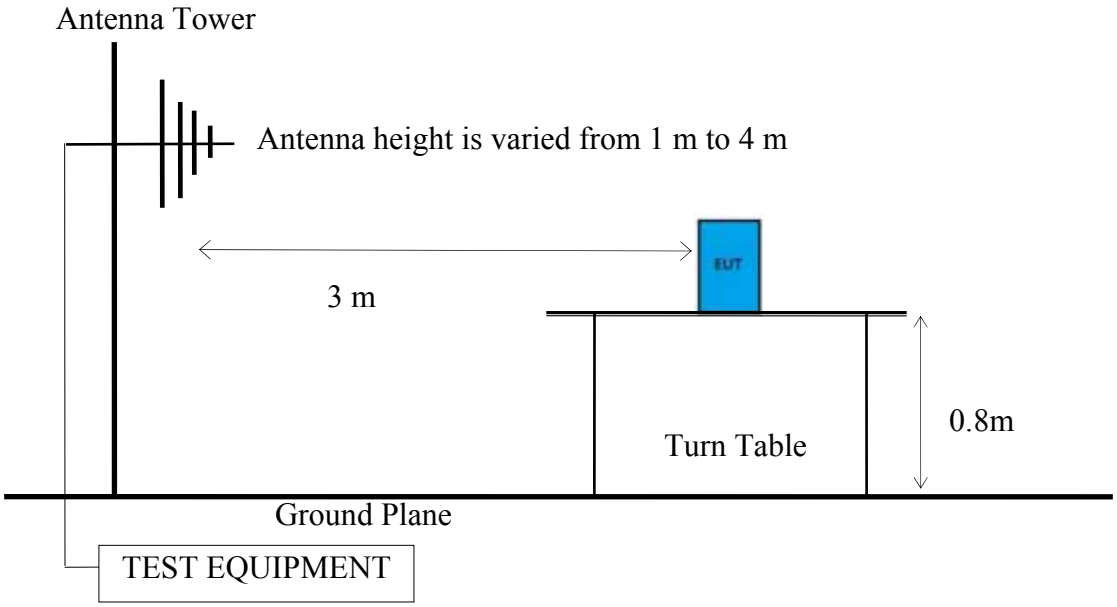
6. RADIATED EMISSION MEASUREMENT

6.1. Block Diagram of Test Setup

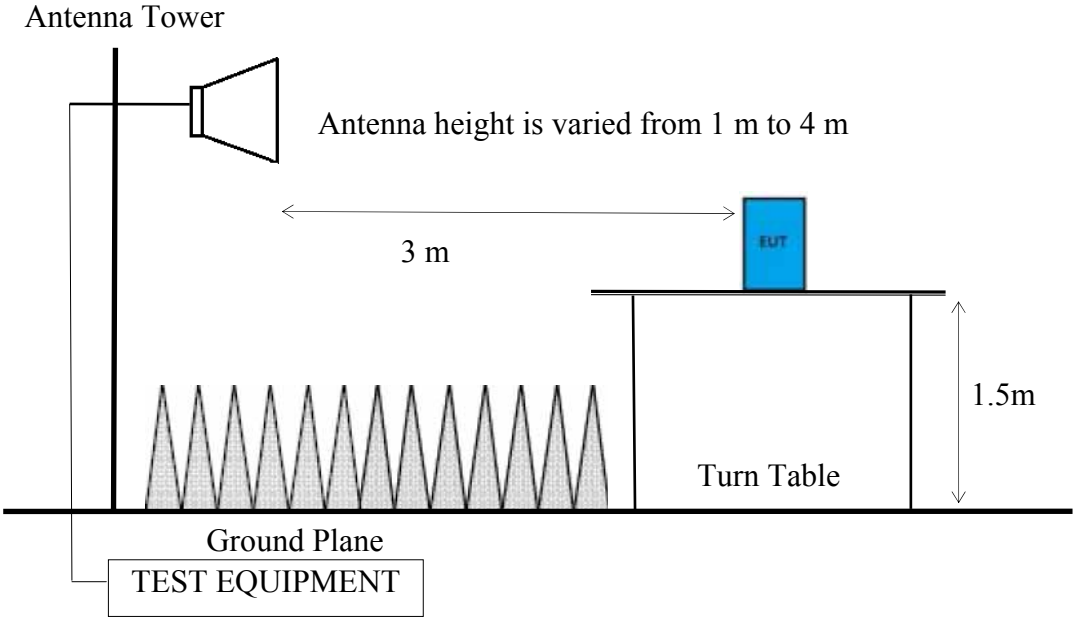
6.1.1. Block Diagram of connection between EUT and simulators

Indicated as section 3.7

6.1.2. Setup Diagram for 30-1000MHz



6.1.3. Semi-Anechoic Chamber (3m) Setup Diagram for above 1GHz



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6.2. Radiated Emission Limits

In any 100kHz bandwidth outside the frequency band, the radio frequency power produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level. In addition, radiated emissions which fall in restricted bands, as defined in Section 15.205, must also comply with the radiated emission limits specified as below.

Frequency (MHz)	Distance(m)	Field Strengths Limits	
		μV/m	dBμV/m
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
Above 960	3	500	54.0
Above 1000	3	74.0 dBμV/m (Peak) 54.0 dBμV/m (Average)	

Remark：(1) dBμV/m = 20 log (μV/m)
(2) The tighter limit applies to the edge between two frequency bands.
(3) Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.
(4) Fundamental and emission fall within operation band are exempted from this section.
(5) Pursuant to ANSI C63.10: 6.6.4.3, if the maximized peak measured value complies with the average limit, then it is unnecessary to perform an average measurement.

6.3. Test Procedure

The EUT setup on the turn table which has1.5 m height to the ground. The turn table rotated 360 degrees and antenna varied from 1 m to 4 m to find the maximum emission level. Both horizontal and vertical polarization are required. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10-2013 regulation.

Frequency below 1GHz:
Spectrum Analyzer is used for pre-testing with following setting:
(1) RBW = 120KHz
(2) VBW ≥ 3 x RBW.
(3) Detector = Peak.
(4) Sweep time = auto.
(5) Trace mode = max hold.
(6) Allow sweeps to continue until the trace stabilizes.
(7) When peak-detected value is lower than limit that the measurement using the Q.P. detector is not required. Otherwise using Q.P. for finally measurement.

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Frequency above 1GHz to 10th harmonic:

Peak Measurement:

(1) RBW = 1 MHz
(2) VBW ≥ 3 x RBW.
(3) Detector = Peak.
(4) Sweep time = auto.
(5) Trace mode = max hold.
(6) Allow sweeps to continue until the trace stabilizes.
(7) When peak-detected value is lower than limit that the measurement using the average detector is not required. Otherwise using average for finally measurement.

Average Measurement:

☐**Option 1:**

(1) RBW = 1 MHz
(2) VBW =1/T, where T is Tx-on presented in Appendix A.3.
(3) Detector = Peak.
(4) Sweep time = auto.
(5) Trace mode = max hold.
(6) Allow sweeps to continue until the trace stabilizes.

■**Option 2:**

Average Emission Level= Peak Emission Level+ D.C.C.F.

6.4. Measurement Result Explanation

■Peak Emission Level=Antenna Factor + Cable Loss + Meter Reading
☐Average Emission Level l=Antenna Factor + Cable Loss + Meter Reading
■Average Emission Level= Peak Emission Level+ DCCF
Duty Cycle Correction Factor (DCCF)= 20log (TX_{on}/100ms) presented in section 3.4
☐ERP= Peak Emission Level-95.2dB-2.14dB

6.5. Test Results

PASSED.

Test Date	2016/04/20 ~ 25	Temp./Hum.	23℃/53%
Test Voltage	DC 6.0V		

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6.5.1. Emissions within Restricted Frequency Bands

6.5.1.1. Frequency Below 1GHz

Modulation	T-FHSS	Frequency	TX 2407.5MHz

Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
324.88	13.78	4.93	25.76	44.47	46.00	1.53	Peak
601.33	18.33	6.51	17.47	42.31	46.00	3.69	Peak
799.21	20.02	7.16	13.90	41.08	46.00	4.92	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
133.79	11.56	3.48	26.10	41.14	43.50	2.36	Peak
365.62	14.79	5.34	24.17	44.30	46.00	1.70	Peak
598.42	18.32	6.50	19.57	44.39	46.00	1.61	Peak

Modulation	T-FHSS	Frequency	TX 2435.5MHz

Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
272.50	12.74	4.48	27.71	44.93	46.00	1.07	Peak
576.11	18.03	6.49	17.52	42.04	46.00	3.96	Peak
799.21	20.02	7.16	15.87	43.05	46.00	2.95	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
132.82	11.61	3.47	25.54	40.62	43.50	2.88	Peak
332.64	13.99	5.01	25.11	44.11	46.00	1.89	Peak
598.42	18.32	6.50	18.19	43.01	46.00	2.99	Peak

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Modulation	T-FHSS	Frequency	TX 2467.5MHz

Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
273.47	12.75	4.49	27.10	44.34	46.00	1.66	Peak
599.39	18.32	6.50	17.58	42.40	46.00	3.60	Peak
799.21	20.02	7.16	14.36	41.54	46.00	4.46	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
132.82	11.61	3.47	25.17	40.25	43.50	3.25	Peak
456.80	16.40	6.13	21.44	43.97	46.00	2.03	Peak
599.39	18.32	6.50	19.30	44.12	46.00	1.88	Peak

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Modulation	S-FHSS	Frequency	TX 2403.25MHz

Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
221.09	10.69	4.14	29.45	44.28	46.00	1.72	Peak
272.50	12.74	4.48	27.84	45.06	46.00	0.94	Peak
671.17	18.62	6.66	17.16	42.44	46.00	3.56	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
132.82	11.61	3.47	25.21	40.29	43.50	3.21	Peak
310.33	13.40	4.77	26.05	44.22	46.00	1.78	Peak
599.39	18.32	6.50	18.96	43.78	46.00	2.22	Peak

Modulation	S-FHSS	Frequency	TX 2425.0MHz

Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
333.61	14.02	5.03	25.58	44.63	46.00	1.37	Peak
576.11	18.03	6.49	17.59	42.11	46.00	3.89	Peak
798.24	20.02	7.16	17.22	44.40	46.00	1.60	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
132.82	11.61	3.47	24.30	39.38	43.50	4.12	Peak
366.59	14.82	5.36	24.73	44.91	46.00	1.09	Peak
598.42	18.32	6.50	19.60	44.42	54.00	9.58	Peak

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Modulation	S-FHSS	Frequency	TX 2447.5MHz

Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
332.64	13.99	5.01	26.00	45.00	46.00	1.00	Peak
576.11	18.03	6.49	17.56	42.08	46.00	3.92	Peak
801.15	20.04	7.17	15.90	43.11	46.00	2.89	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
132.82	11.61	3.47	26.81	41.89	43.50	1.61	Peak
332.64	13.99	5.01	25.51	44.51	46.00	1.49	Peak
599.39	18.32	6.50	19.10	43.92	46.00	2.08	Peak

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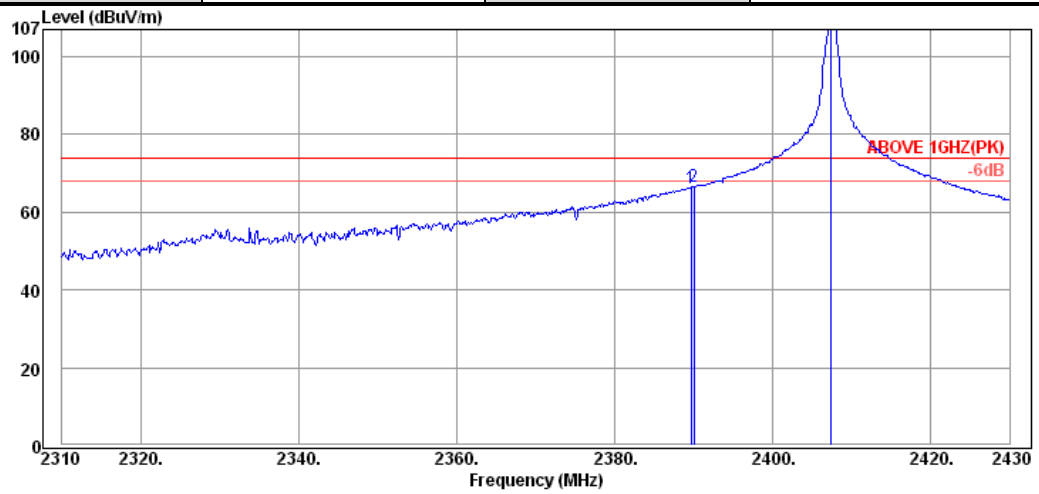
6.5.1.2.Frequency Above 1 GHz to 10th harmonics

Band Edge:

Modulation	T-FHSS	Frequency	TX 2407.5MHz



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.68	32.16	5.72	28.49	66.37	74.00	7.63	Peak
2390.04	32.16	5.72	28.62	66.50	74.00	7.50	Peak
2407.44	32.18	5.74	69.53	107.45	---	---	Peak

Emission Frequency (MHz)	Peak Emission Level (dBμV/m)	DCCF (dB)	Average Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
2389.68	66.37	-47.54	18.83	54.00	35.17	Average
2390.04	66.50	-47.54	18.96	54.00	35.04	Average

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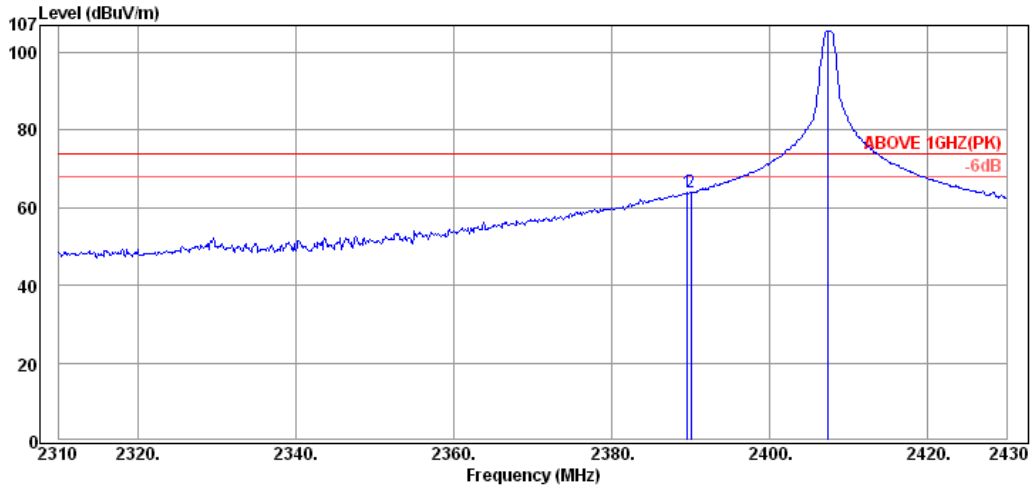
Modulation	T-FHSS	Frequency	TX 2407.5MHz



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.56	32.16	5.72	26.08	63.96	74.00	10.04	Peak
2390.04	32.16	5.72	26.18	64.06	74.00	9.94	Peak
2407.44	32.18	5.74	67.79	105.71	---	---	Peak

Emission Frequency (MHz)	Peak Emission Level (dBμV/m)	DCCF (dB)	Average Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
2389.56	63.96	-47.54	16.42	54.00	37.58	Average
2390.04	64.06	-47.54	16.52	54.00	37.48	Average

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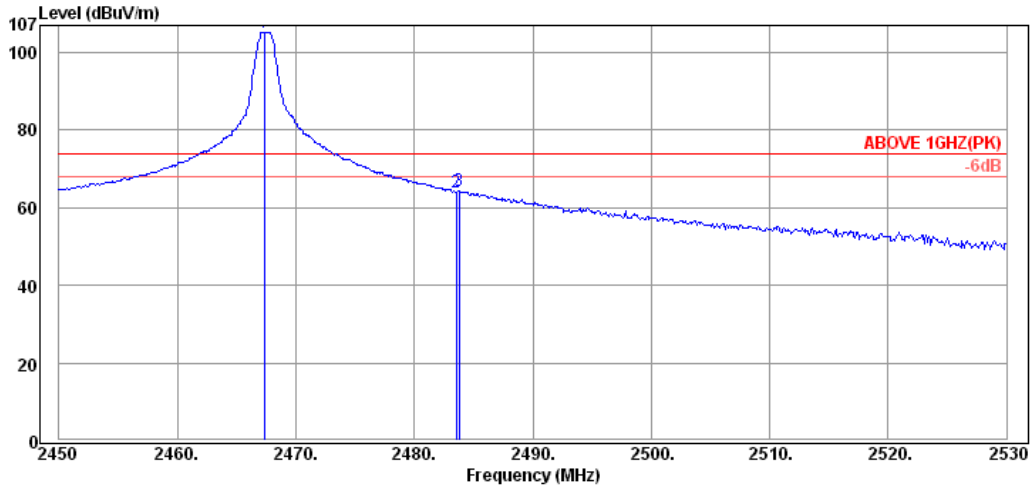
Modulation	T-FHSS	Frequency	TX 2467.5MHz



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2467.36	32.25	5.80	67.27	105.32	---	---	Peak
2483.52	32.28	5.82	26.01	64.11	74.00	9.89	Peak
2483.76	32.28	5.82	26.34	64.44	74.00	9.56	Peak

Emission Frequency (MHz)	Peak Emission Level (dBμV/m)	DCCF (dB)	Average Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
2483.52	64.11	-47.54	16.57	54.00	37.43	Average
2483.76	64.44	-47.54	16.90	54.00	37.10	Average

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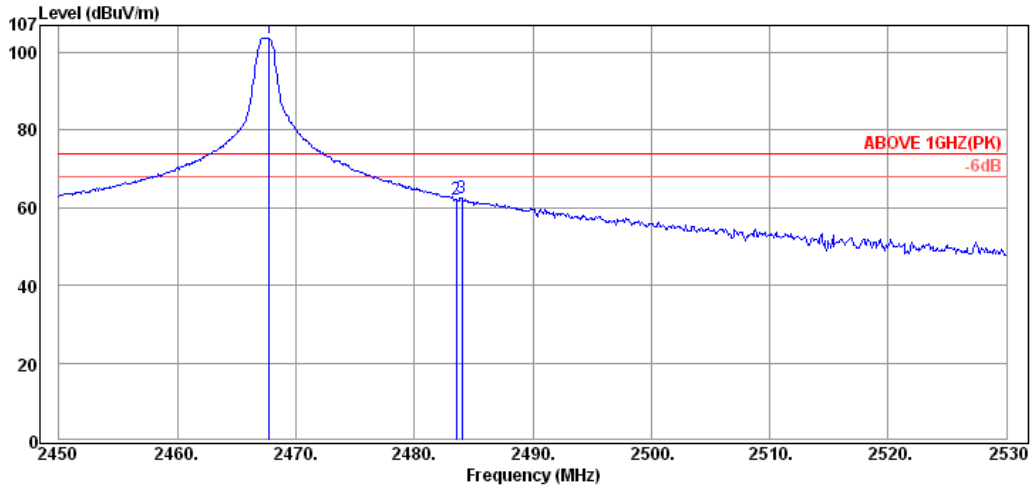
Modulation	T-FHSS	Frequency	TX 2467.5MHz



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2467.76	32.25	5.80	65.72	103.77	---	---	Peak
2483.52	32.28	5.82	23.95	62.05	74.00	11.95	Peak
2484.00	32.28	5.82	24.31	62.41	74.00	11.59	Peak

Emission Frequency (MHz)	Peak Emission Level (dBμV/m)	DCCF (dB)	Average Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
2483.52	62.05	-47.54	14.51	54.00	39.49	Average
2484.00	62.41	-47.54	14.87	54.00	39.13	Average

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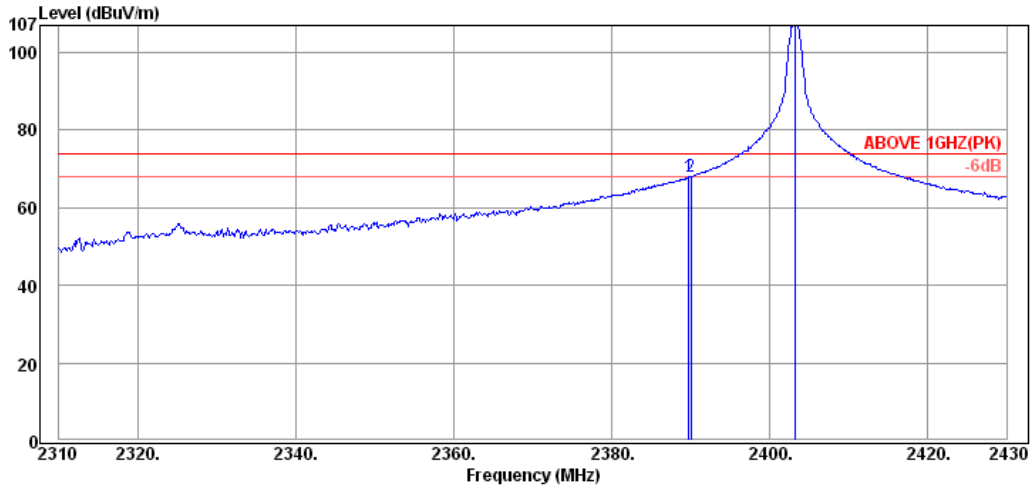
Modulation	S-FHSS	Frequency	TX 2403.25MHz



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.80	32.16	5.72	30.03	67.91	74.00	6.09	Peak
2390.04	32.16	5.72	30.02	67.90	74.00	6.10	Peak
2403.24	32.18	5.74	69.06	106.98	---	---	Peak

Emission Frequency (MHz)	Peak Emission Level (dBμV/m)	DCCF (dB)	Average Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
2389.80	67.91	-36.80	31.11	54.00	22.89	Average
2390.04	67.90	-36.80	31.10	54.00	22.90	Average

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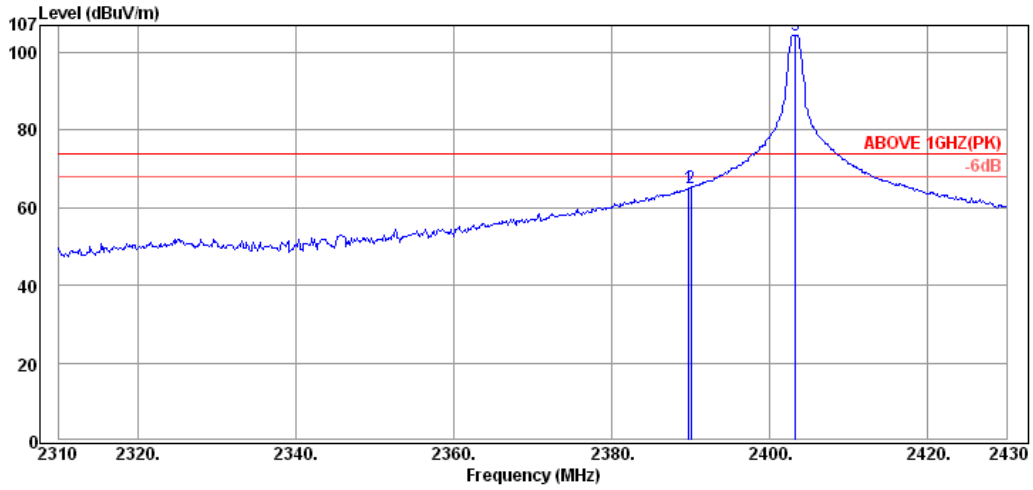
Modulation	S-FHSS	Frequency	TX 2403.25MHz



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.80	32.16	5.72	27.02	64.90	74.00	9.10	Peak
2390.04	32.16	5.72	27.13	65.01	74.00	8.99	Peak
2403.24	32.18	5.74	66.66	104.58	---	---	Peak

Emission Frequency (MHz)	Peak Emission Level (dBμV/m)	DCCF (dB)	Average Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
2389.8	64.90	-36.80	28.10	54.00	25.90	Average
2390.04	65.01	-36.80	28.21	54.00	25.79	Average

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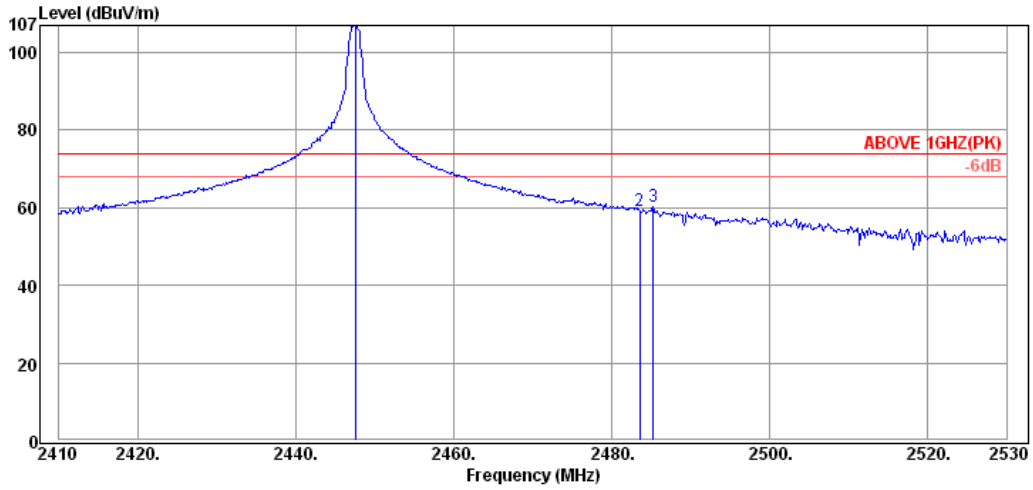
Modulation	S-FHSS	Frequency	TX 2447.5MHz



Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2447.56	32.23	5.78	68.91	106.92	---	---	Peak
2483.56	32.28	5.82	21.03	59.13	74.00	14.87	Peak
2485.24	32.28	5.82	22.12	60.22	74.00	13.78	Peak

Emission Frequency (MHz)	Peak Emission Level (dBμV/m)	DCCF (dB)	Average Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
2483.56	59.13	-36.80	22.33	54.00	31.67	Average
2485.24	60.22	-36.80	23.42	54.00	30.58	Average

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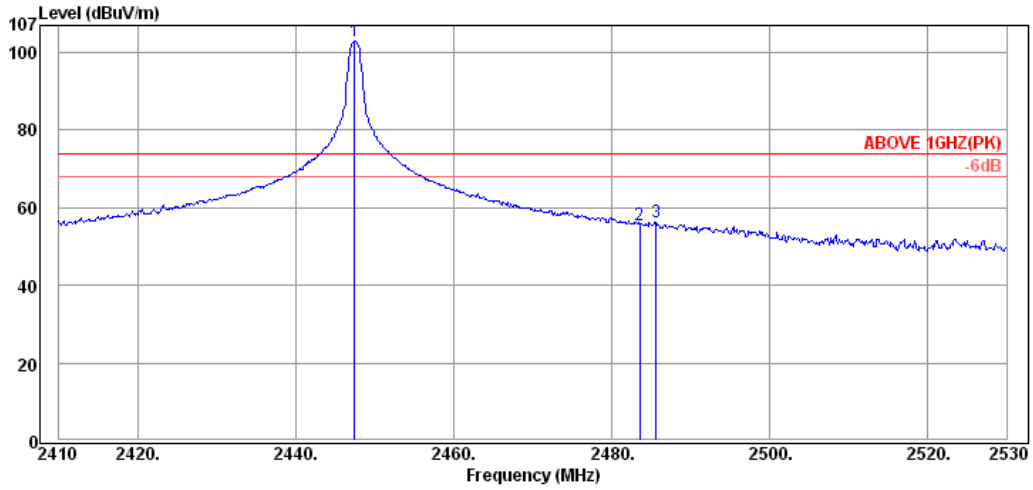
Modulation	S-FHSS	Frequency	TX 2447.5MHz



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2447.44	32.23	5.78	64.80	102.81	---	---	Peak
2483.56	32.28	5.82	17.58	55.68	74.00	18.32	Peak
2485.60	32.28	5.82	18.15	56.25	74.00	17.75	Peak

Emission Frequency (MHz)	Peak Emission Level (dBμV/m)	DCCF (dB)	Average Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
2483.56	55.68	-36.80	18.88	54.00	35.12	Average
2485.6	56.25	-36.80	19.45	54.00	34.55	Average

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6.5.2. Emissions outside the frequency band:

The emissions (up to 25GHz) not reported for there is no emission be found.

Modulation	T-FHSS	Frequency	TX 2407.5MHz

Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
1320.00	28.03	3.84	9.13	41.00	74.00	33.00	Peak
1596.00	28.72	4.22	9.29	42.23	74.00	31.77	Peak
1980.00	31.48	5.04	6.78	43.30	74.00	30.70	Peak
4815.00	34.22	7.86	22.26	64.34	74.00	9.66	Peak
7225.00	35.80	9.32	13.11	58.23	74.00	15.77	Peak

Emission Frequency (MHz)	Peak Emission Level (dBμV/m)	DCCF (dB)	Average Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1320	41	-47.54	-6.54	54.00	60.54	Average
1596	42.23	-47.54	-5.31	54.00	59.31	Average
1980	43.3	-47.54	-4.24	54.00	58.24	Average
4815	64.34	-47.54	16.80	54.00	37.20	Average
7225	58.23	-47.54	10.69	54.00	43.31	Average

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4815.00	34.22	7.86	23.65	65.73	74.00	8.27	Peak
7225.00	35.80	9.32	16.31	61.43	74.00	12.57	Peak
1320.00	28.03	3.84	13.51	45.38	74.00	28.62	Peak
1604.00	28.84	4.26	8.46	41.56	74.00	32.44	Peak
1980.00	31.48	5.04	7.80	44.32	74.00	29.68	Peak

Emission Frequency (MHz)	Peak Emission Level (dBμV/m)	DCCF (dB)	Average Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1320	45.38	-47.54	-2.16	54.00	56.16	Average
1604	41.56	-47.54	-5.98	54.00	59.98	Average
1980	44.32	-47.54	-3.22	54.00	57.22	Average
4815	65.73	-47.54	18.19	54.00	35.81	Average
7225	61.43	-47.54	13.89	54.00	40.11	Average

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Modulation	T-FHSS	Frequency	TX 2435.5MHz

Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4875.00	34.25	8.35	22.68	65.28	74.00	8.72	Peak
7310.00	35.80	9.82	4.97	50.59	74.00	23.41	Peak
1316.00	28.03	3.84	9.16	41.03	74.00	32.97	Peak
1604.00	28.84	4.26	13.98	47.08	74.00	26.92	Peak
1980.00	31.48	5.04	6.29	42.81	74.00	31.19	Peak

Emission Frequency (MHz)	Peak Emission Level (dBμV/m)	DCCF (dB)	Average Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1316.00	41.03	-47.54	-6.51	54.00	60.51	Average
1604.00	47.08	-47.54	-0.46	54.00	54.46	Average
1980.00	42.81	-47.54	-4.73	54.00	58.73	Average
4875.00	65.28	-47.54	17.74	54.00	36.26	Average
7310.00	50.59	-47.54	3.05	54.00	50.95	Average

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
1320.00	28.03	3.84	13.60	45.47	74.00	28.53	Peak
1596.00	28.72	4.22	10.19	43.13	74.00	30.87	Peak
1980.00	31.48	5.04	8.33	44.85	74.00	29.15	Peak
4875.00	34.25	8.35	20.04	62.64	74.00	11.36	Peak
7310.00	35.80	9.82	6.18	51.80	74.00	22.20	Peak

Emission Frequency (MHz)	Peak Emission Level (dBμV/m)	DCCF (dB)	Average Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1320.00	45.47	-47.54	-2.07	54.00	56.07	Average
1596.00	43.13	-47.54	-4.41	54.00	58.41	Average
1980.00	44.85	-47.54	-2.69	54.00	56.69	Average
4875.00	62.64	-47.54	15.10	54.00	38.90	Average
7310.00	51.80	-47.54	4.26	54.00	49.74	Average

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Modulation	T-FHSS	Frequency	TX 2467.5MHz

Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
1320.00	28.03	3.84	10.14	42.01	74.00	31.99	Peak
1594.00	28.72	4.22	14.20	47.14	74.00	26.86	Peak
1984.00	31.48	5.04	6.45	42.97	74.00	31.03	Peak
4935.00	34.27	8.57	17.35	60.19	74.00	13.81	Peak
7400.00	35.80	10.15	-2.22	43.73	74.00	30.27	Peak

Emission Frequency (MHz)	Peak Emission Level (dBμV/m)	DCCF (dB)	Average Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1320.00	42.01	-47.54	-5.53	54.00	59.53	Average
1594.00	47.14	-47.54	-0.40	54.00	54.40	Average
1984.00	42.97	-47.54	-4.57	54.00	58.57	Average
4935.00	60.19	-47.54	12.65	54.00	41.35	Average
7400.00	43.73	-47.54	-3.81	54.00	57.81	Average

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4935.00	34.27	8.57	20.21	63.05	74.00	10.95	Peak
7400.00	35.80	10.15	-2.01	43.94	74.00	30.06	Peak
1320.00	28.03	3.84	13.75	45.62	74.00	28.38	Peak
1600.00	28.72	4.22	14.72	47.66	74.00	26.34	Peak
1980.00	31.48	5.04	8.00	44.52	74.00	29.48	Peak

Emission Frequency (MHz)	Peak Emission Level (dBμV/m)	DCCF (dB)	Average Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1320.00	45.62	-47.54	-1.92	54.00	55.92	Average
1600.00	47.66	-47.54	0.12	54.00	53.88	Average
1980.00	44.52	-47.54	-3.02	54.00	57.02	Average
4935.00	63.05	-47.54	15.51	54.00	38.49	Average
7400.00	43.94	-47.54	-3.60	54.00	57.60	Average

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Modulation	S-FHSS	Frequency	TX 2403.25MHz

Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4810.00	34.22	7.86	13.18	55.26	74.00	18.74	Peak
7210.00	35.80	9.22	1.22	46.24	74.00	27.76	Peak
1324.00	28.03	3.84	9.42	41.29	74.00	32.71	Peak
1600.00	28.72	4.22	9.93	42.87	74.00	31.13	Peak
1980.00	31.48	5.04	6.78	43.30	74.00	30.70	Peak

Emission Frequency (MHz)	Peak Emission Level (dBμV/m)	DCCF (dB)	Average Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1324.00	41.29	-36.80	4.49	54.00	49.51	Average
1600.00	42.87	-36.80	6.07	54.00	47.93	Average
1980.00	43.30	-36.80	6.50	54.00	47.50	Average
4810.00	55.26	-36.80	18.46	54.00	35.54	Average
7210.00	46.24	-36.80	9.44	54.00	44.56	Average

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
1320.00	28.03	3.84	14.14	46.01	74.00	27.99	Peak
1600.00	28.72	4.22	12.86	45.80	74.00	28.20	Peak
1976.00	31.36	4.98	8.40	44.74	74.00	29.26	Peak
4810.00	34.22	7.86	19.27	61.35	74.00	12.65	Peak
7210.00	35.80	9.22	1.81	46.83	74.00	27.17	Peak

Emission Frequency (MHz)	Peak Emission Level (dBμV/m)	DCCF (dB)	Average Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1320.00	46.01	-36.80	9.21	54.00	44.79	Average
1600.00	45.80	-36.80	9.00	54.00	45.00	Average
1976.00	44.74	-36.80	7.94	54.00	46.06	Average
4810.00	61.35	-36.80	24.55	54.00	29.45	Average
7210.00	46.83	-36.80	10.03	54.00	43.97	Average

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Modulation	S-FHSS	Frequency	TX 2425.0MHz

Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4850.00	34.24	8.10	10.08	52.42	74.00	21.58	Peak
7275.00	35.80	9.62	0.32	45.74	74.00	28.26	Peak
1320.00	28.03	3.84	9.33	41.20	74.00	32.80	Peak
1600.00	28.72	4.22	9.76	42.70	74.00	31.30	Peak
1984.00	31.48	5.04	6.34	42.86	74.00	31.14	Peak

Emission Frequency (MHz)	Peak Emission Level (dBμV/m)	DCCF (dB)	Average Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1320.00	41.20	-36.80	4.40	54.00	49.60	Average
1600.00	42.70	-36.80	5.90	54.00	48.10	Average
1984.00	42.86	-36.80	6.06	54.00	47.94	Average
4850.00	52.42	-36.80	15.62	54.00	38.38	Average
7275.00	45.74	-36.80	8.94	54.00	45.06	Average

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
1320.00	28.03	3.84	13.69	45.56	74.00	28.44	Peak
1600.00	28.72	4.22	16.27	49.21	74.00	24.79	Peak
1980.00	31.48	5.04	8.09	44.61	74.00	29.39	Peak
4850.00	34.24	8.10	17.28	59.62	74.00	14.38	Peak
7275.00	35.80	9.62	2.00	47.42	74.00	26.58	Peak

Emission Frequency (MHz)	Peak Emission Level (dBμV/m)	DCCF (dB)	Average Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1320.00	45.56	-36.80	8.76	54.00	45.24	Average
1600.00	49.21	-36.80	12.41	54.00	41.59	Average
1980.00	44.61	-36.80	7.81	54.00	46.19	Average
4850.00	59.62	-36.80	22.82	54.00	31.18	Average
7275.00	47.42	-36.80	10.62	54.00	43.38	Average

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Modulation	S-FHSS	Frequency	TX 2447.5MHz

Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
1316.00	28.03	3.84	10.38	42.25	74.00	31.75	Peak
1600.00	28.72	4.22	12.43	45.37	74.00	28.63	Peak
1980.00	31.48	5.04	6.28	42.80	74.00	31.20	Peak
4890.00	34.26	8.47	11.99	54.72	74.00	19.28	Peak
7335.00	35.80	9.95	-1.29	44.46	74.00	29.54	Peak

Emission Frequency (MHz)	Peak Emission Level (dBμV/m)	DCCF (dB)	Average Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1316.00	42.25	-36.80	5.45	54.00	48.55	Average
1600.00	45.37	-36.80	8.57	54.00	45.43	Average
1980.00	42.80	-36.80	6.00	54.00	48.00	Average
4890.00	54.72	-36.80	17.92	54.00	36.08	Average
7335.00	44.46	-36.80	7.66	54.00	46.34	Average

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4890.00	34.26	8.47	18.14	60.87	74.00	13.13	Peak
7335.00	35.80	9.95	-1.41	44.34	74.00	29.66	Peak
1320.00	28.03	3.84	13.96	45.83	74.00	28.17	Peak
1600.00	28.72	4.22	14.02	46.96	74.00	27.04	Peak
1980.00	31.48	5.04	7.62	44.14	74.00	29.86	Peak

Emission Frequency (MHz)	Peak Emission Level (dBμV/m)	DCCF (dB)	Average Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1320.00	45.83	-36.80	9.03	54.00	44.97	Average
1600.00	46.96	-36.80	10.16	54.00	43.84	Average
1980.00	44.14	-36.80	7.34	54.00	46.66	Average
4890.00	60.87	-36.80	24.07	54.00	29.93	Average
7335.00	44.34	-36.80	7.54	54.00	46.46	Average

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6.5.3. Emissions in Non-restricted Frequency Bands

All emission levels below the 15.209 general radiated emissions limits is not required.

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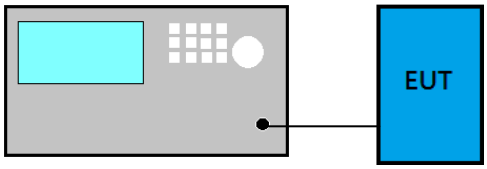
7. 20dB BANDWIDTH MEASUREMENT

7.1. Block Diagram of Test Setup



7.2. Specification Limits

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

7.3. Test Procedure

Following measurement procedure is reference toDA00-705:

(1) Set RBW close to1% of OBW.
(2) Set VBW≧RBW.
(3) Detector = Peak.
(4) Trace mode = max hold.
(5) Sweep = auto couple.
(6) Allow the trace to stabilize.
(7) Setting channel bandwidth function x dB to -20 dB to record the final bandwidth.

7.4. Test Results

Please refer to Appendix A

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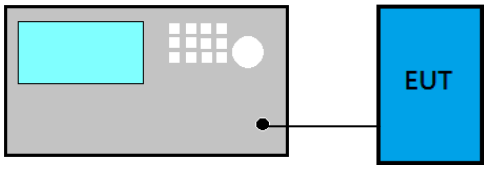
8. CARRIER FREQUENCY SEPARATION MEASUREMENT

8.1. Block Diagram of Test Setup



8.2. Specification Limits

Alternatively, frequency hopping systems operating in the 2400-2483.5MHz band may have hopping channel carrier frequencies that are separated by 25kHz or two-thirds of the 20dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output no greater than 125mW.

8.3. Test Procedure

Following measurement procedure is reference to DA00-705:

(1) Span = wide enough to capture the peaks of two adjacent channels
(2) RBW ≥ 1% of the span
(3) VBW≥ RBW
(4) Sweep = auto
(5) Detector function = peak
(6) Trace = max hold

8.4. Test Results

Please refer to Appendix A

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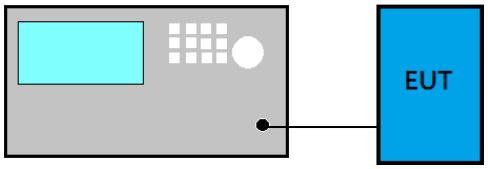
9. TIME OF OCCUPANCY MEASUREMENT

9.1. Block Diagram of Test Setup



9.2. Specification Limits

Frequency hopping systems in the 2400-2483.5MHz shall use at least 15 non-overlapping channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by number of hopping channels employed.

9.3. Test Procedure

Following measurement procedure is reference to DA00-705:

(1) Span = zero span, centered on a hopping channel
(2) RBW = 1 MHz
(3) VBW ≥ RBW
(4) Sweep = as necessary to capture the entire dwell time per hopping channel
(5) Detector function = peak
(6) Trace = max hold

9.4. Test Results

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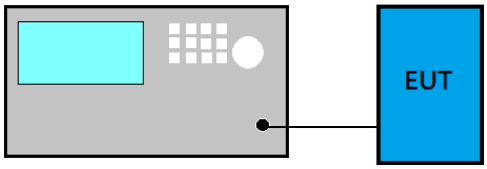
10. NUMBER OF HOPPING CHANNELS MEASUREMENT

10.1. Block Diagram of Test Setup



10.2. Specification Limits

Frequency hopping systems which use fewer than 20 hopping frequencies may employ intelligent hopping techniques to avoid interference to other transmissions. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 non-overlapping channels.

10.3. Test Procedure

Following measurement procedure is reference to DA00-705:

(1) Span = the frequency band of operation
(2) RBW ≥ 1% of the span
(3) VBW ≥ RBW
(4) Sweep = auto
(5) Detector function = peak
(6) Trace = max hold

10.4. Test Results

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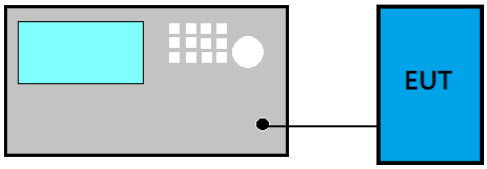
11. MAXIMUM PEAK OUTPUT POWER MEASUREMENT

11.1. Block Diagram of Test Setup



11.2. Specification Limits

The Limits of maximum Peak Output Power for frequency hopping systems in 2400-2483.5MHz is: 0.125Watt. (21dBm)

11.3. Test Procedure

Following measurement procedure is reference to DA00-705:

(1) Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel
(2) RBW ≥ OBW
(3) VBW ≥ RBW
(4) Sweep = auto
(5) Detector function = peak
(6) Trace = max hold

11.4. Test Results

Please refer to Appendix A

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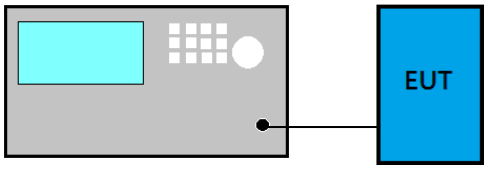
12. EMISSION LIMITATIONS MEASUREMENT

12.1. Block Diagram of Test Setup



12.2. Specification Limits

In any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (See Section 15.205(c)).(※This test result attaching to §3.6.3)

12.3. Test Procedure

Following measurement procedure is reference to DA00-705:

(1) Set span wide enough to capture the peak level of the in-band emission and all spurious emissions; up to 10th harmonic.
(2) RBW = 100 kHz
(3) VBW ≥ RBW
(4) Sweep = auto
(5) Detector function = peak
(6) Trace = max hold

12.4. Test Results

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13.DEVIATION TO TEST SPECIFICATIONS

【NONE】

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APPENDIX A

TEST PLOTS

(Model: T3PV)

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A.1 20DB BANDWIDTH MEASUREMENT

Test Date	2016/04/21 ~ 22	Temp./Hum.	25℃/58%
Cable Loss	1.54dB	Test Voltage	DC 6.0V

A.1.1 20dB Bandwidth Result

Modulation	Centre Frequency (MHz)	20 dB Bandwidth (MHz)	Limit 2/3 (20dB Bandwidth)
T-FHSS	2407.50	0.8736	0.5824
	2435.50	0.7747	0.5165
	2467.50	0.7781	0.5187

Remark: The maximum two-thirds of the 20dB bandwidth shall be at maximum 0.5824MHz.

Modulation	Centre Frequency (MHz)	20 dB Bandwidth (MHz)	Limit 2/3 (20dB Bandwidth)
S-FHSS	2403.25	0.2633	0.1755
	2425.00	0.2617	0.1745
	2447.50	0.2640	0.1760

Remark: The maximum two-thirds of the 20dB bandwidth shall be at maximum 0.1760MHz.

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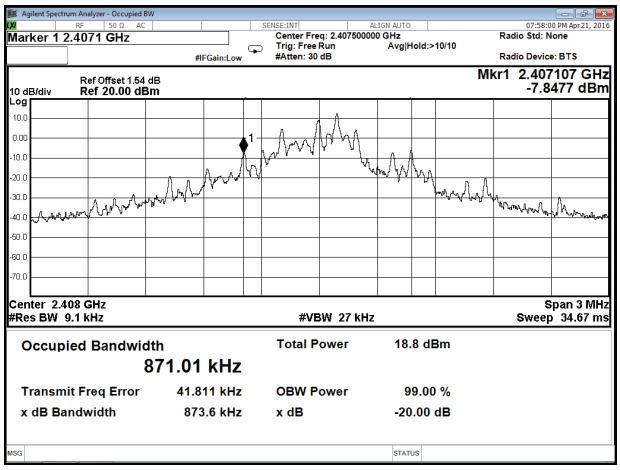
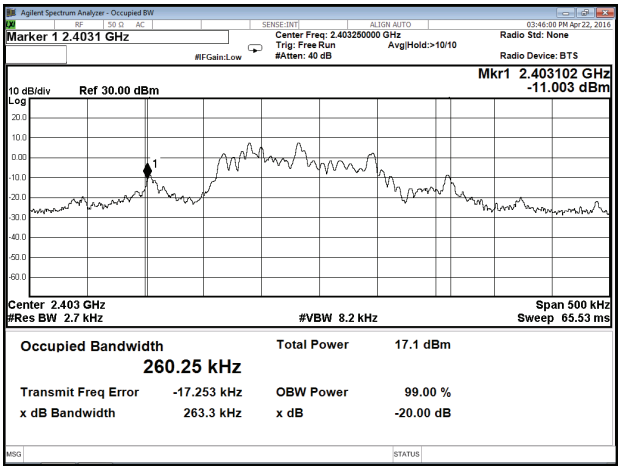
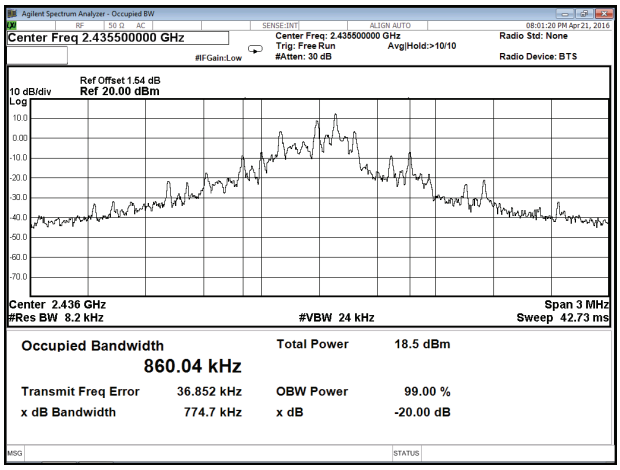
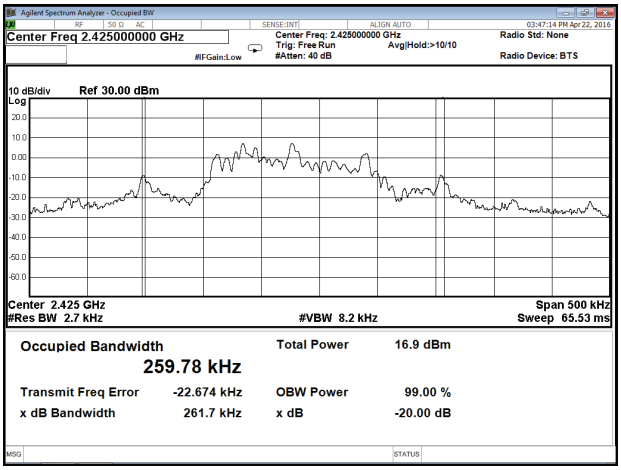
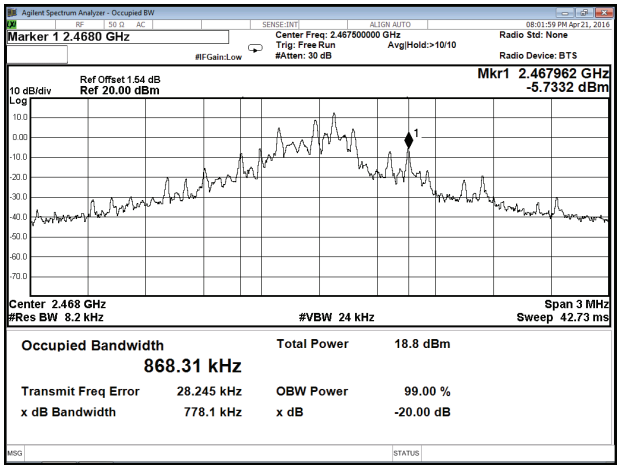
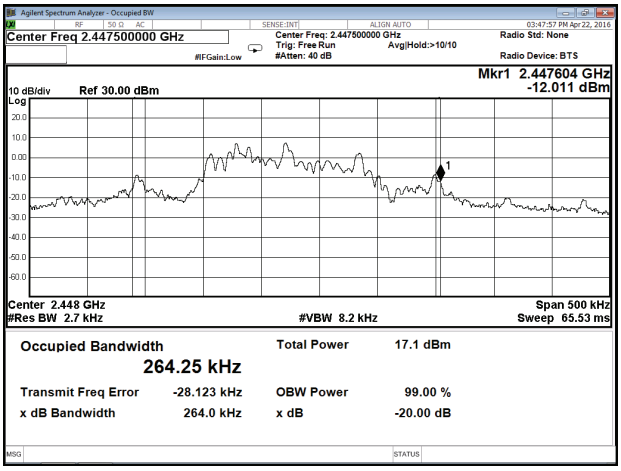
A.1.2 Measurement Plots

T-FHSS	S-FHSS
	
	
	

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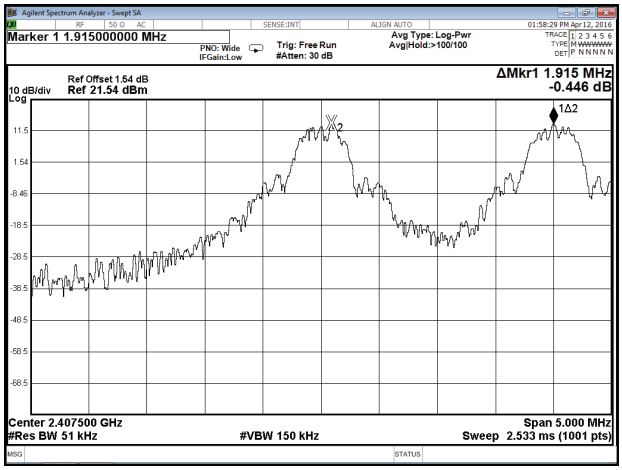
A.2 CARRIER FREQUENCY SEPARATION MEASUREMENT

Test Date	2016/04/12 ~ 18	Temp./Hum.	25℃/58%
Cable Loss	1.54dB	Test Voltage	DC 6.0V

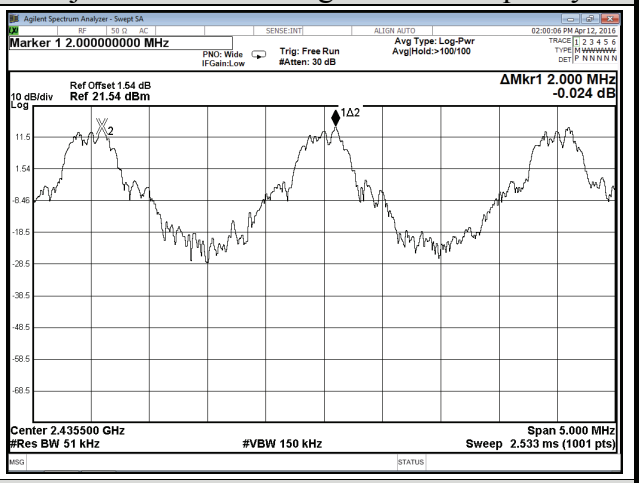
A.2.1 Measurement Plots

Modulation: T-FHSS

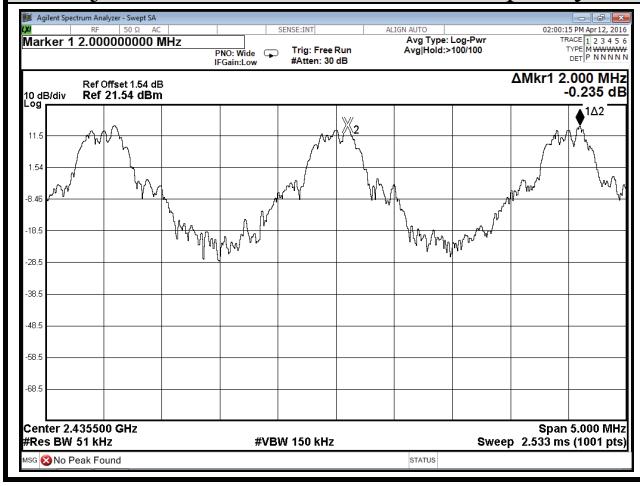
2407.50MHz



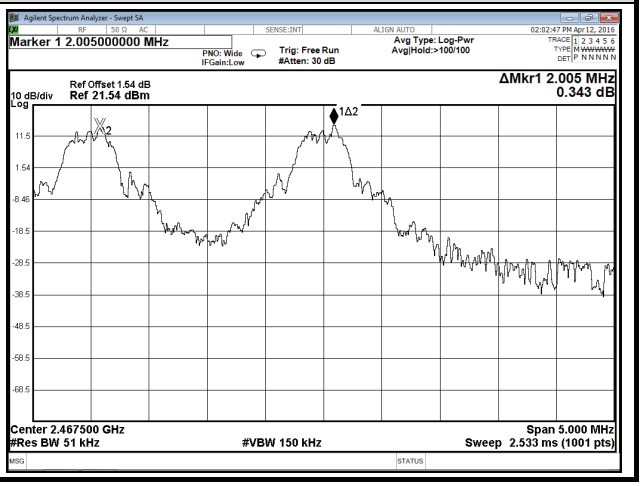
2435.50MHz
adjacent channel of right carrier frequency



2435.50MHz
adjacent channel of left carrier frequency



2467.50MHz



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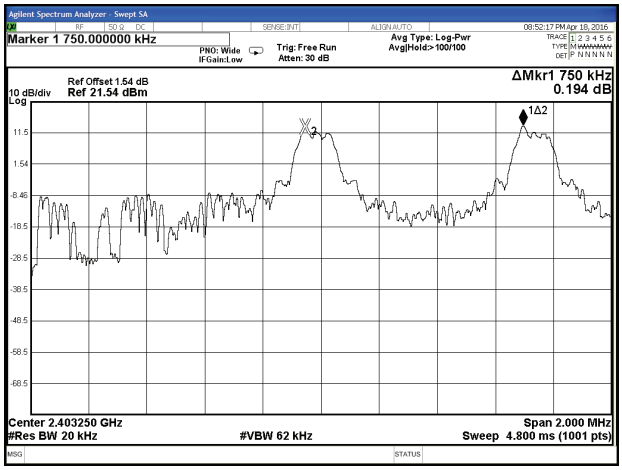
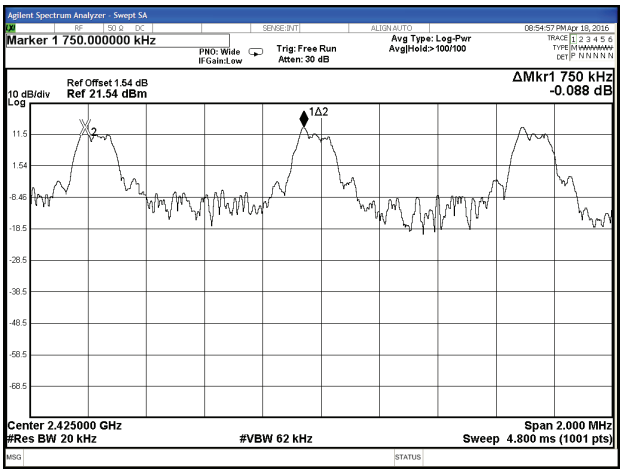
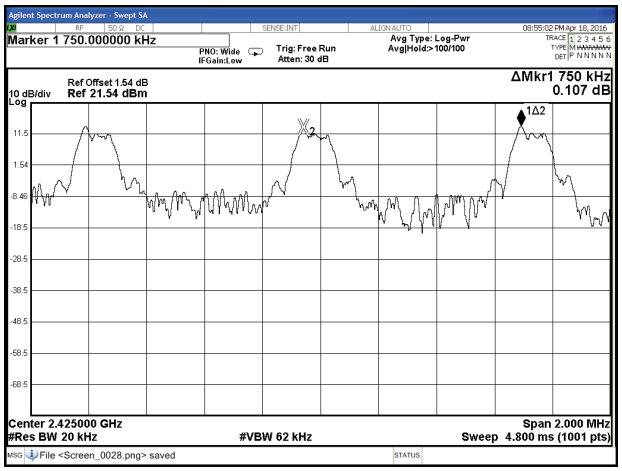
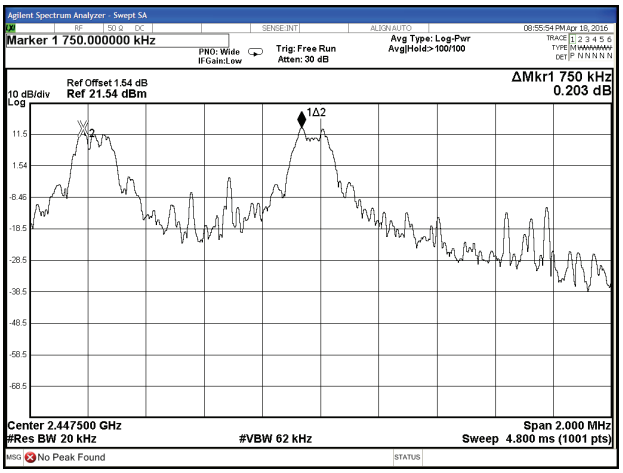
Modulation: S-FHSS	
2403.25MHz	2425.00MHz adjacent channel of right carrier frequency
	
2425.00MHz adjacent channel of left carrier frequency	2447.50MHz
	

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A.3 TIME OF OCCUPANCY MEASUREMENT

Test Date	2016/04/12 ~ 18	Temp./Hum.	25℃/58%
Cable Loss	1.64dB	Test Voltage	DC 6.0V

A.3.1 Time of Occupancy

Modulation	Centre Frequency (MHz)	Time of Occupancy (ms)	Maximum accumulated Time of Occupancy (ms)	Limit (ms)
T-FHSS	2407.500	0.42	132.72	<400
	2435.500	0.41	129.56	<400
	2467.500	0.42	132.72	<400

Duty cycle: 31 channels*0.4 seconds = 12.4 seconds

Test Frequency: 2407.500MHz

For each second of 10 channel appearance, the longest time of occupancy for each of 12.4 seconds is:

10 channels*12.4 seconds* 0.42ms = 132.72ms

Test Frequency: 2435.500MHz

For each second of 10 channel appearance, the longest time of occupancy for each of 12.4 seconds is:

10 channel*12.4 seconds* 0.41ms = 129.56ms

Test Frequency: 2467.500MHz

For each second of 10 channel appearance, the longest time of occupancy for each of 12.4 seconds is:

10 channel*12.4 seconds* 0.42ms = 132.72ms

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Modulation	Centre Frequency (MHz)	Time of Occupancy (ms)	Maximum accumulated Time of Occupancy (ms)	Limit (ms)
S-FHSS	2403.25	1.445	228.31	<400
	2425.00	1.445	228.31	<400
	2447.50	1.445	228.31	<400

Duty cycle: 60 channels*0.4 seconds = 24 seconds

Test Frequency: 2403.250MHz

For each second of 5 channel appearance, the longest time of occupancy for each of 24 seconds is:

5channels*24 seconds* 1.445ms = 228.31ms

Test Frequency: 2425.00MHz

For each second of 5 channel appearance, the longest time of occupancy for each of 24 seconds is:

5channel*24 seconds* 1.445ms = 228.31ms

Test Frequency: 2447.50MHz

For each second of 5 channel appearance, the longest time of occupancy for each of 24 seconds is:

5channel*24 seconds* 1.445ms = 228.31ms

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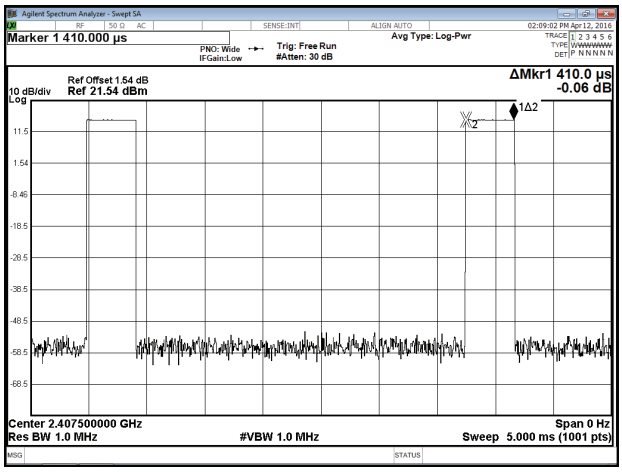
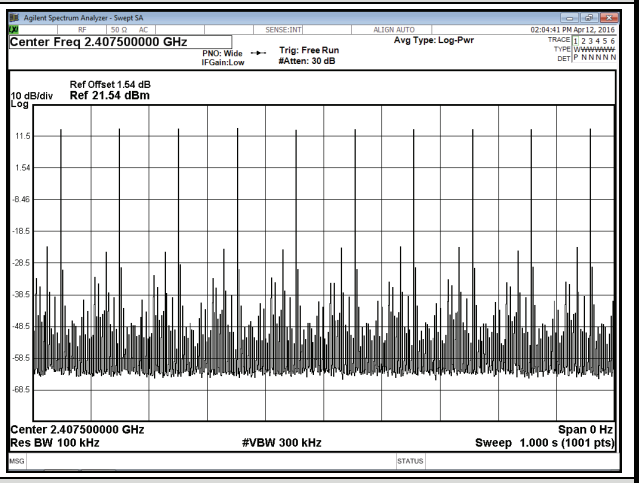
A.3.2 Measurement Plots

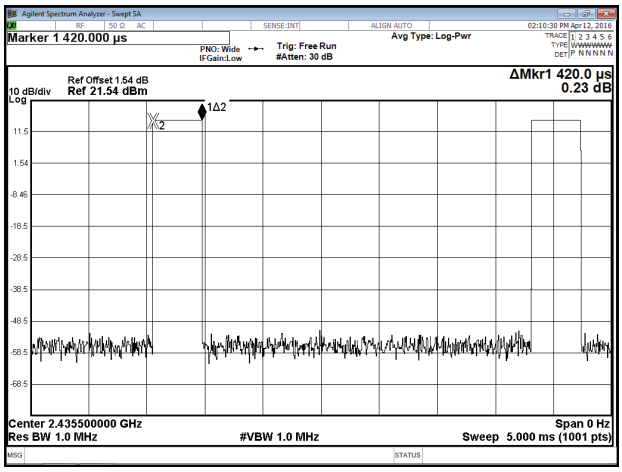
Modulation: T-FHSS

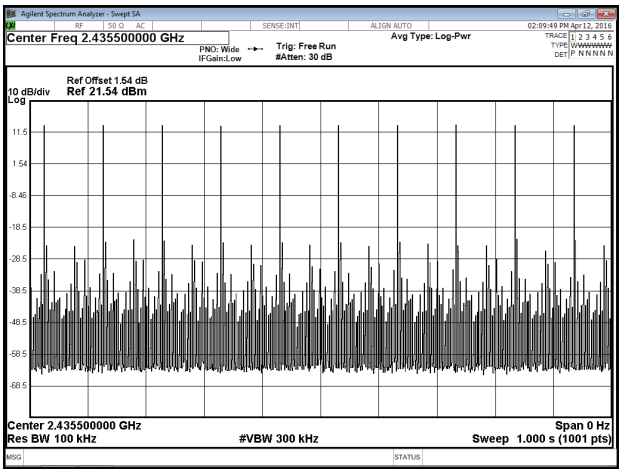
2407.500MHz



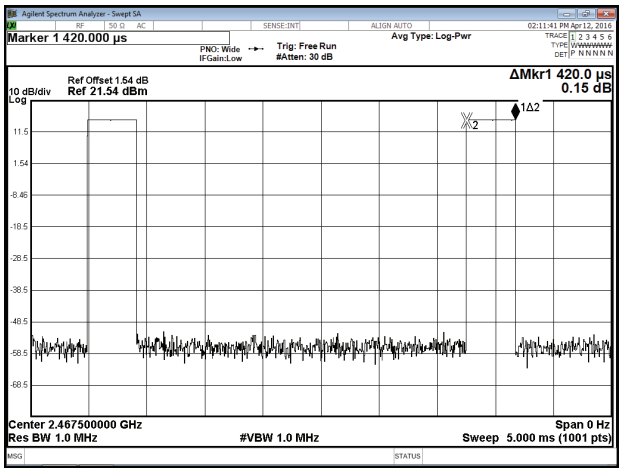


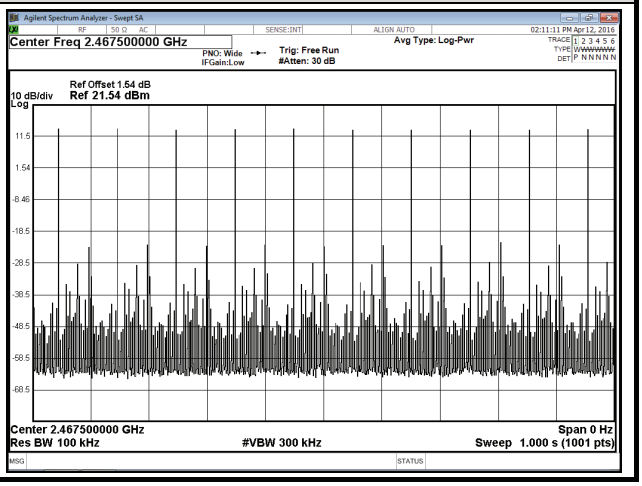
2435.500MHz





2467.500MHz





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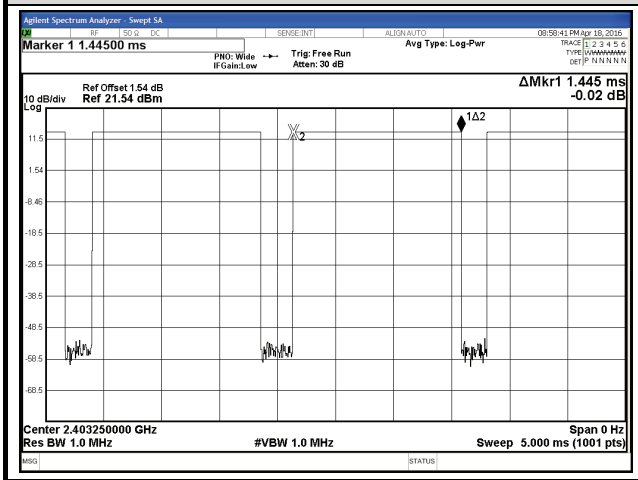
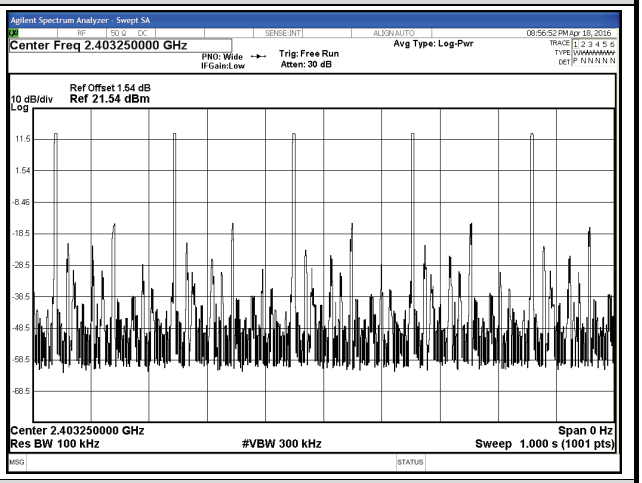
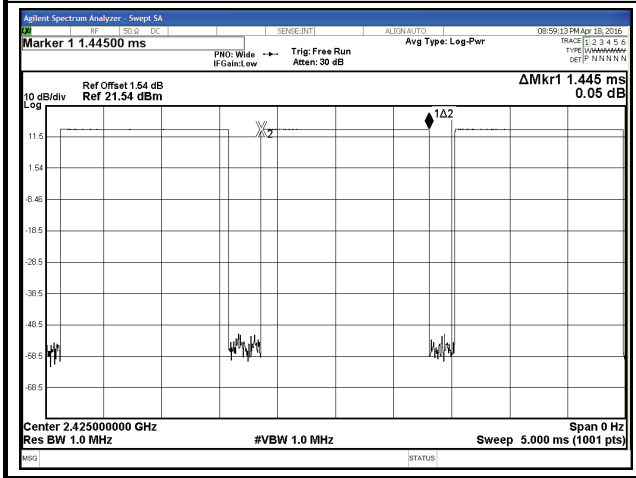
Modulation: S-FHSS

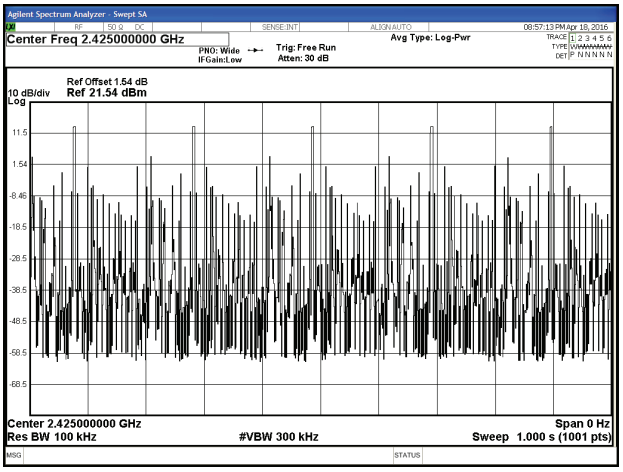
2403.25MHz



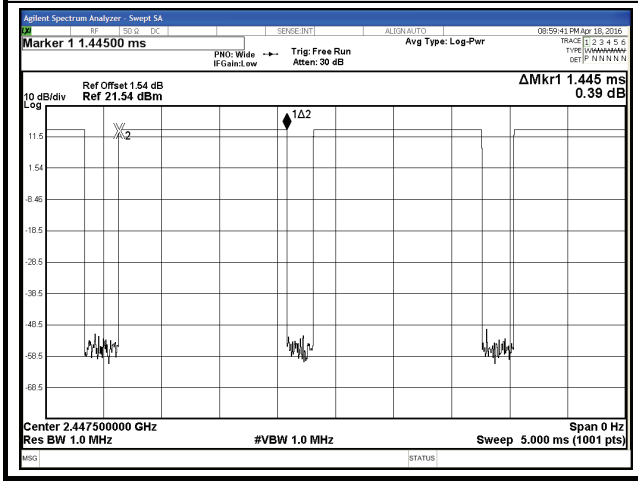


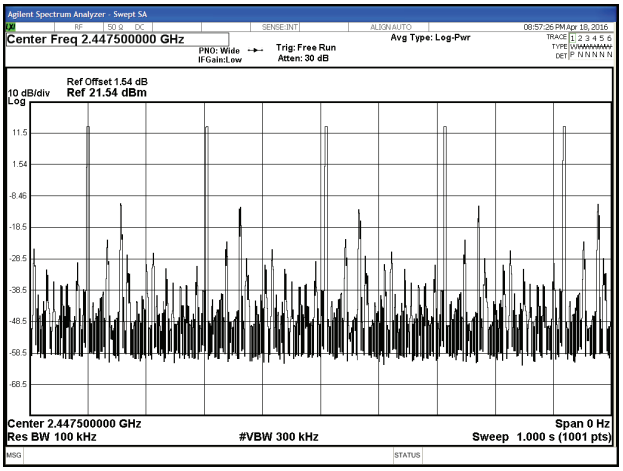
2425.00MHz





2447.50MHz





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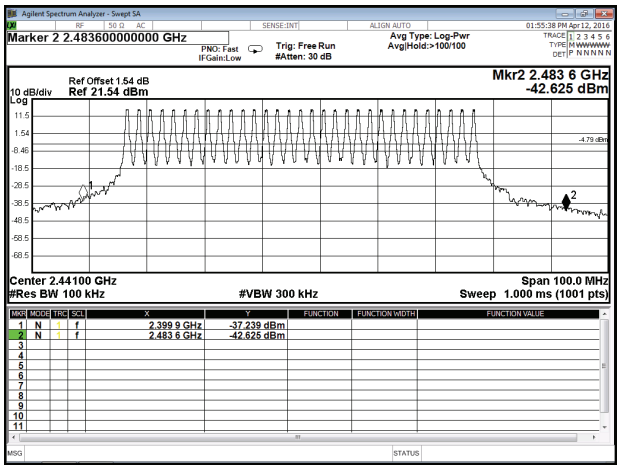
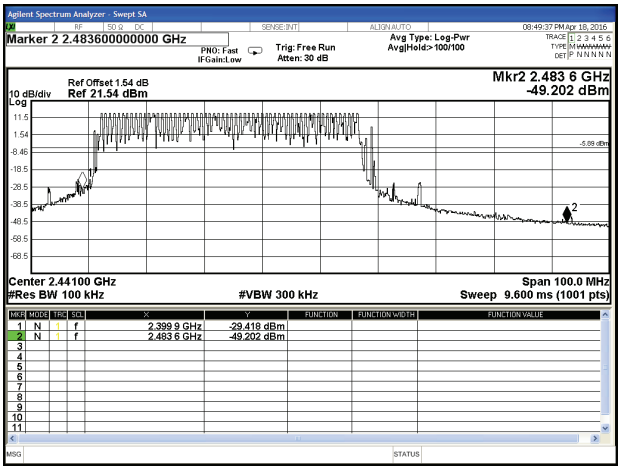
A.4 NUMBER OF HOPPING CHANNELS MEASUREMENT

Test Date	2016/04/12 ~ 18	Temp./Hum.	25℃/58%
Cable Loss	1.54dB	Test Voltage	DC 6.0V

A.4.1 Measurement Plots

Modulation: T-FHSS	Modulation: S-FHSS
	
The number hopping channel is 31.	The number hopping channel is 60.

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A.5 MAXIMUM PEAK OUTPUT POWER MEASUREMENT

Test Date	2016/04/12 ~ 18	Temp./Hum.	25℃/58%
Cable Loss	1.54dB	Test Voltage	DC 6.0V

Modulation	Centre Frequency (MHz)	Peak Output Power		Limit
		dBm	W	
T-FHSS	2407.50	14.775	0.030026	21dBm (0.125W)
	2435.50	14.618	0.028960	
	2467.50	14.781	0.030068	

Modulation	Centre Frequency (MHz)	Peak Output Power		Limit
		dBm	W	
S-FHSS	2403.25	13.564	0.022720	21dBm (0.125W)
	2425.00	13.820	0.024099	
	2447.50	13.751	0.023719	

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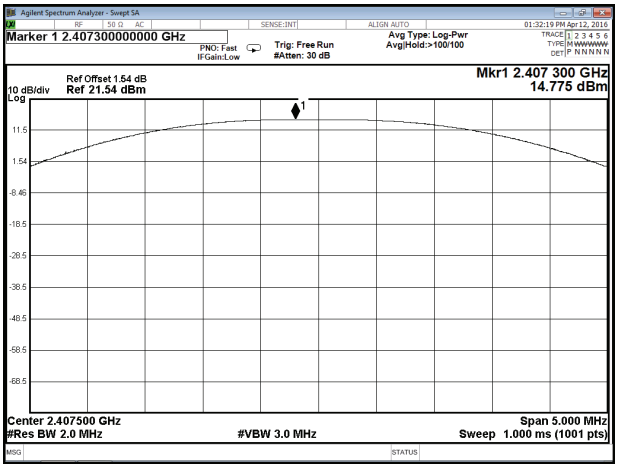
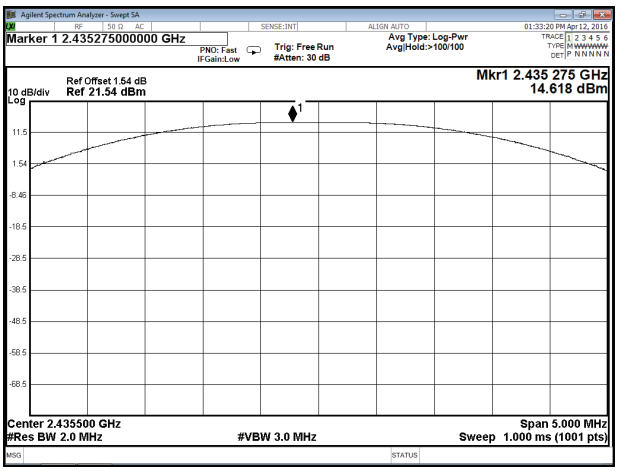
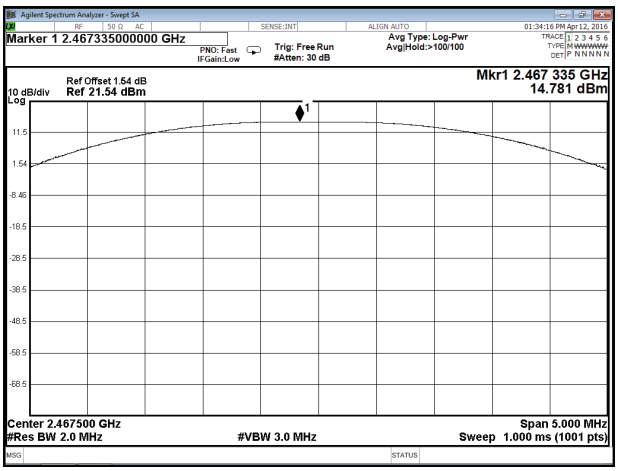
A.5.1 Measurement Plots

Modulation: T-FHSS







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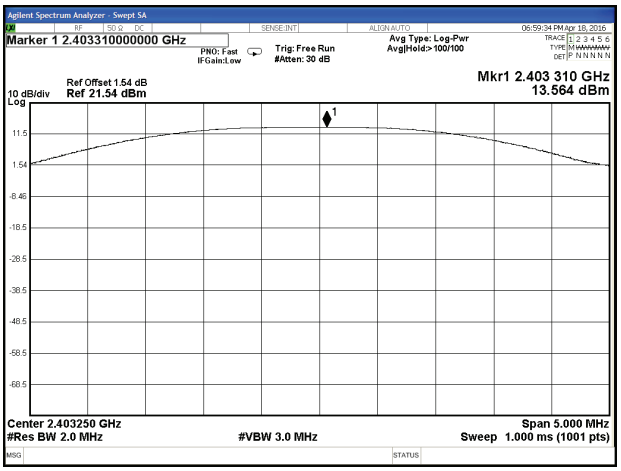
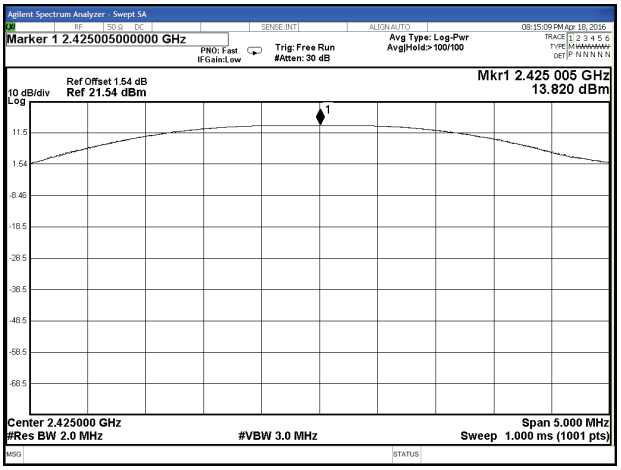
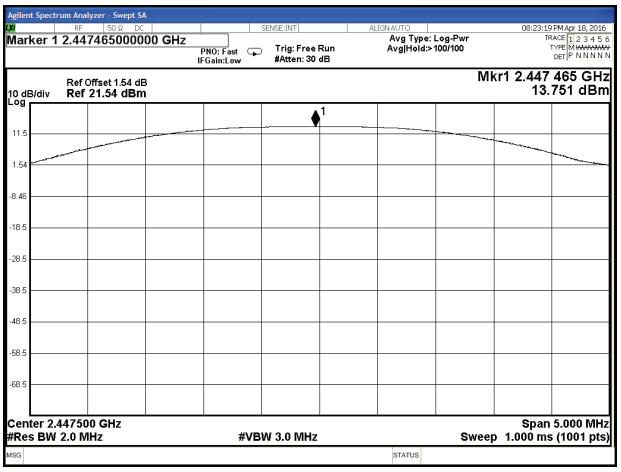
Modulation: S-FHSS







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A.6 EMISSION LIMITATIONS MEASUREMENT

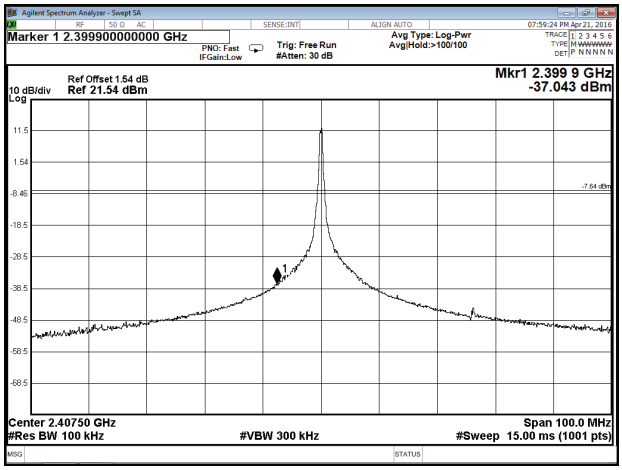
A.6.1 Band Edge

Test Date	2016/04/12 ~ 21	Temp./Hum.	25℃/58%
Cable Loss	1.54dB	Test Voltage	DC 6.0V

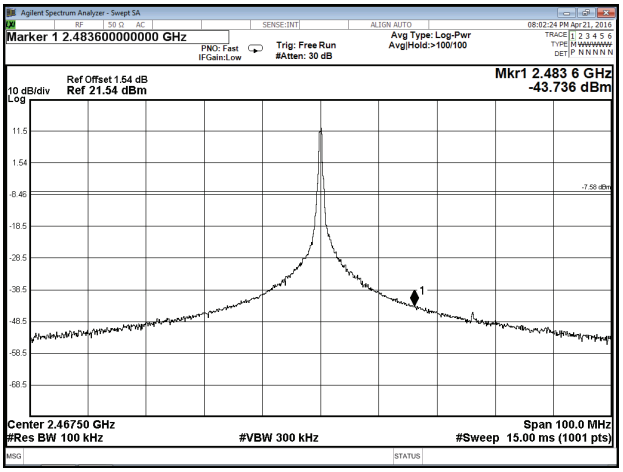
Modulation: T-FHSS

Single Channel

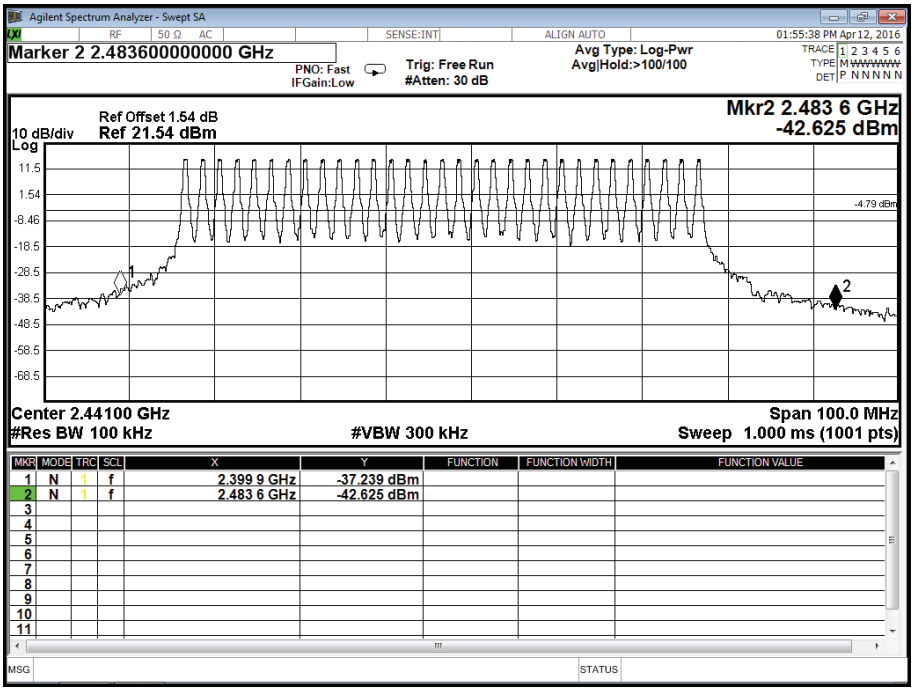
Low channel



High channel



Hopping Mode



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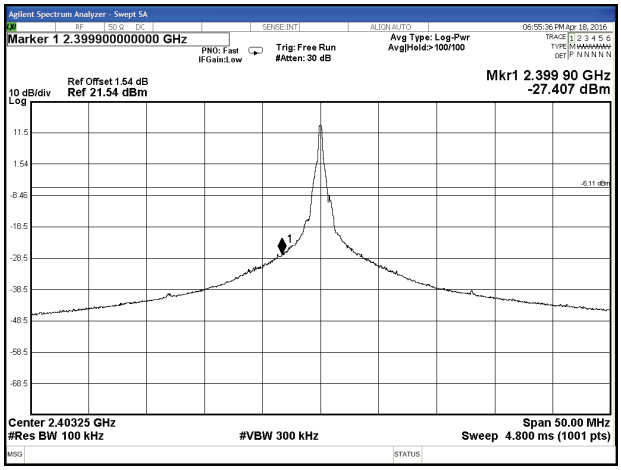
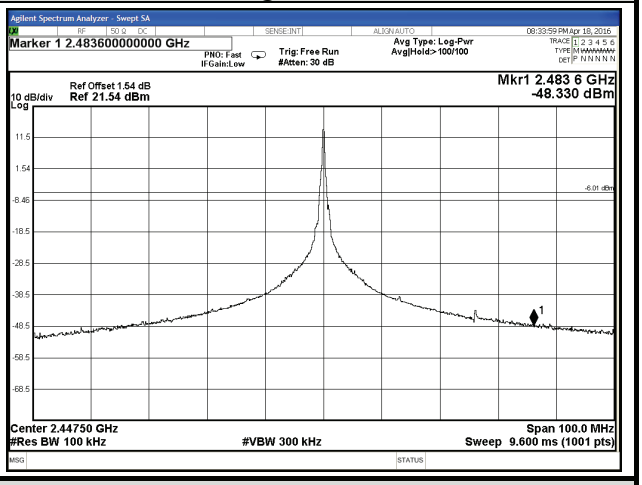
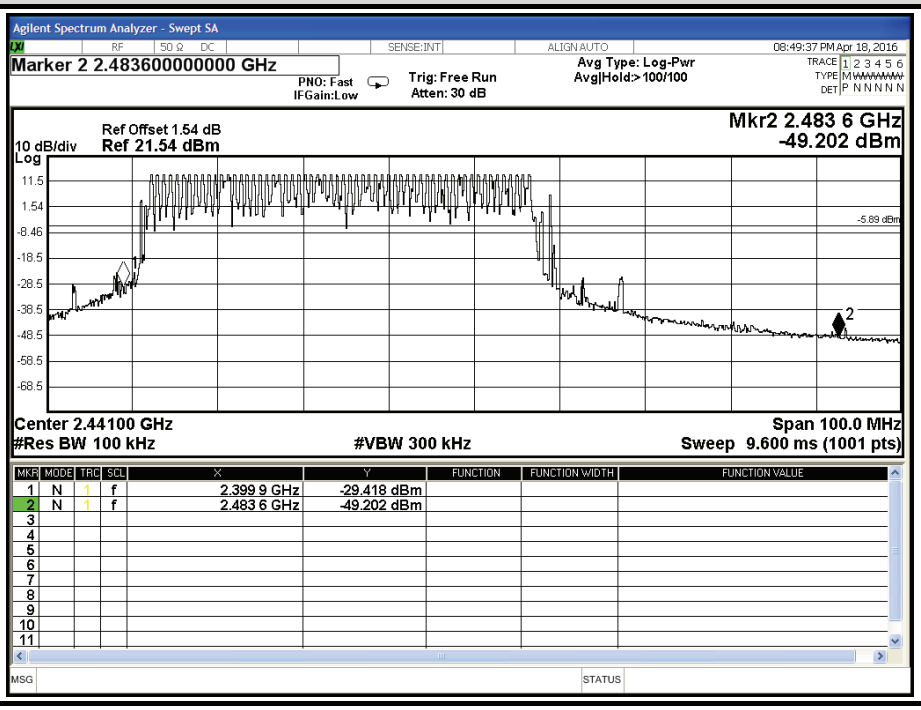
Modulation: S-FHSS

Single Channel

Low channel	High channel
	

Hopping Mode



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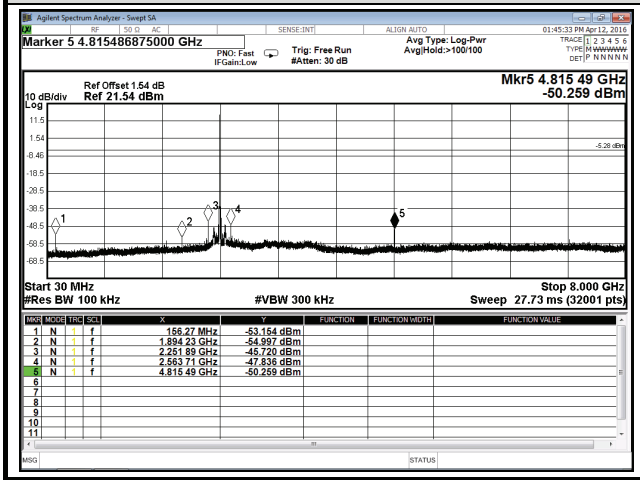
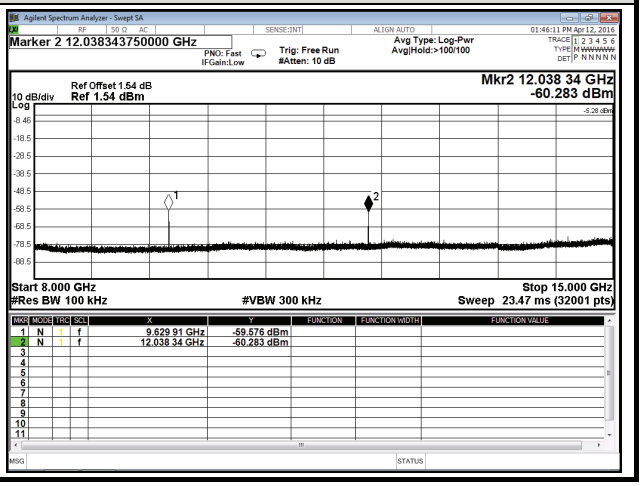
A.6.2 Spurious Emission

Test Date	2016/04/12	Temp./Hum.	25℃/58%
Mode	TX	Modulation	T-FHSS
		Frequency	2407.50MHz
Cable Loss	1.54dB	Test Voltage	DC 6.0V

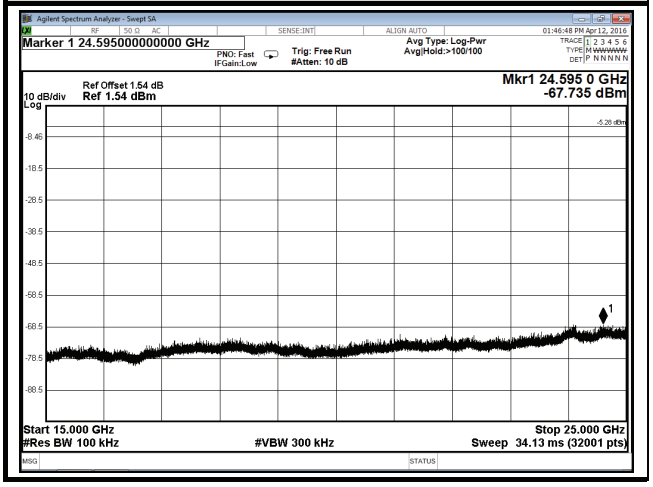
30MHz – 8GHz



8GHz – 15GHz



15GHz – 25GHz



Note: All results have been included cable loss and simultaneous factor.

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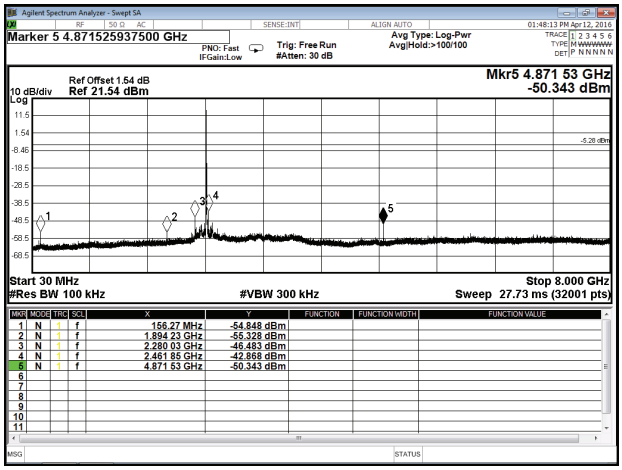
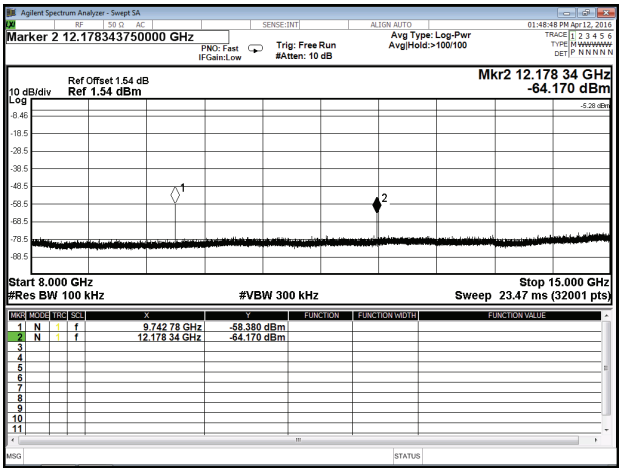
Test Date	2016/04/12	Temp./Hum.	25℃/58%
Mode	TX	Modulation	T-FHSS
		Frequency	2435.50MHz
Cable Loss	1.54dB	Test Voltage	DC 6.0V

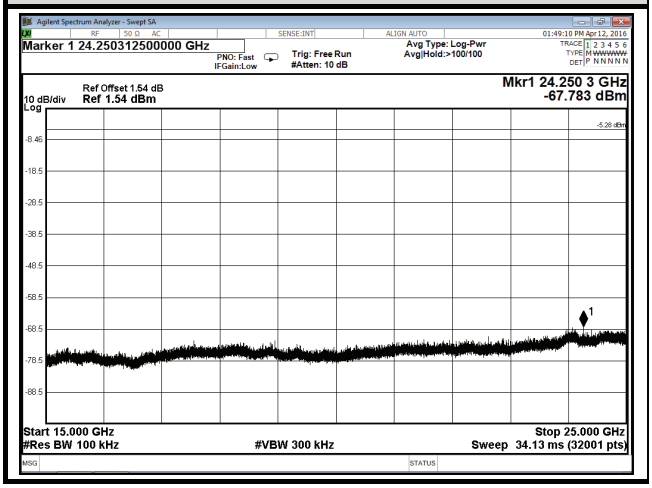
30MHz – 8GHz



8GHz – 15GHz



15GHz – 15GHz



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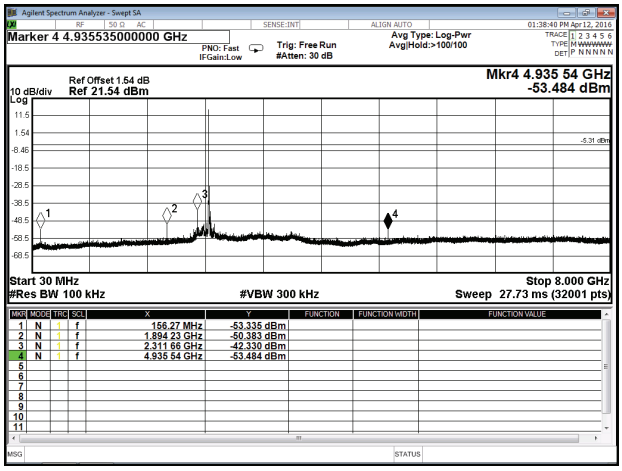
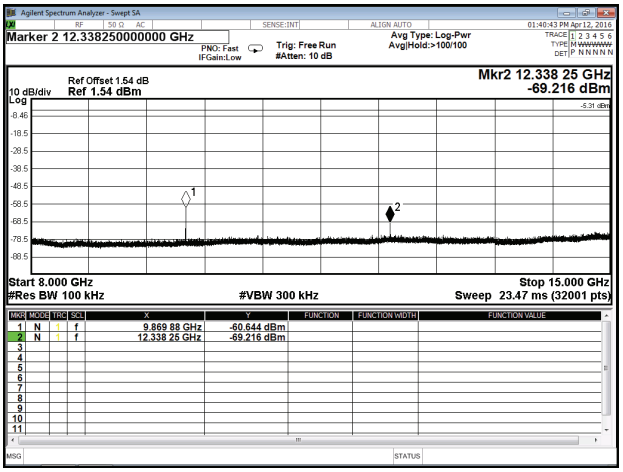
Test Date	2016/04/12	Temp./Hum.	25℃/58%
Mode	TX	Modulation	T-FHSS
		Frequency	2467.50MHz
Cable Loss	1.54dB	Test Voltage	DC 6.0V

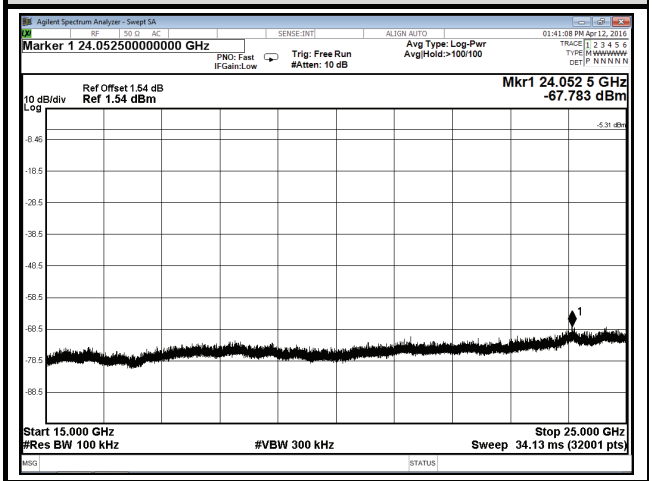
30MHz – 8GHz



8GHz – 15GHz



15GHz – 25GHz



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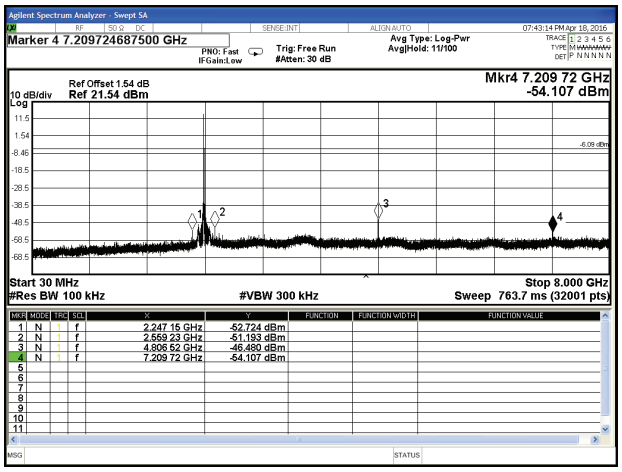
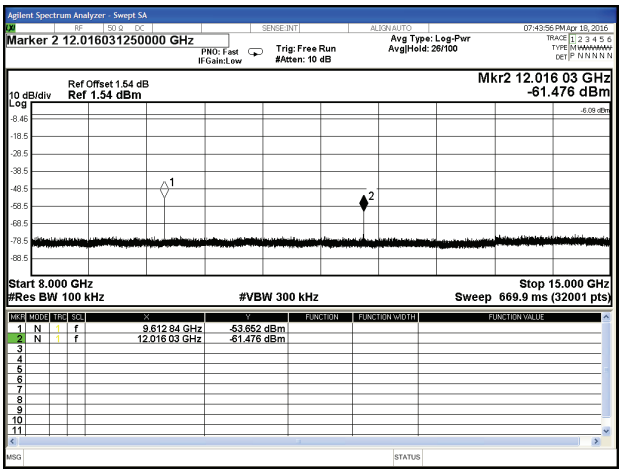
Test Date	2016/04/18	Temp./Hum.	25℃/58%
Mode	TX	Modulation	S-FHSS
		Frequency	2403.25MHz
Cable Loss	1.54dB	Test Voltage	DC 6.0V

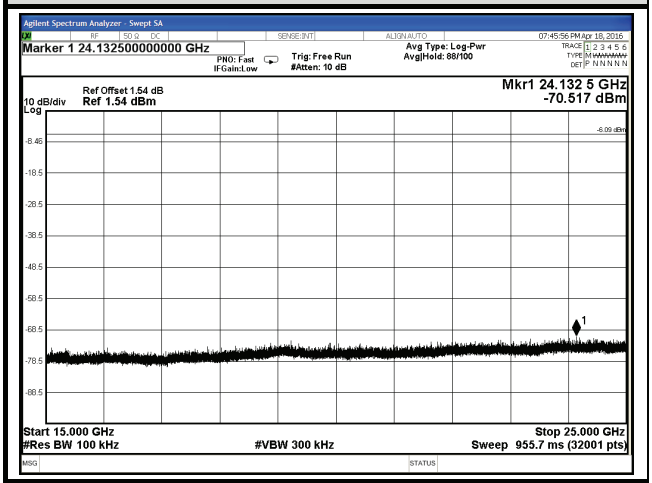
30MHz – 8GHz



8GHz – 15GHz



15GHz – 25GHz



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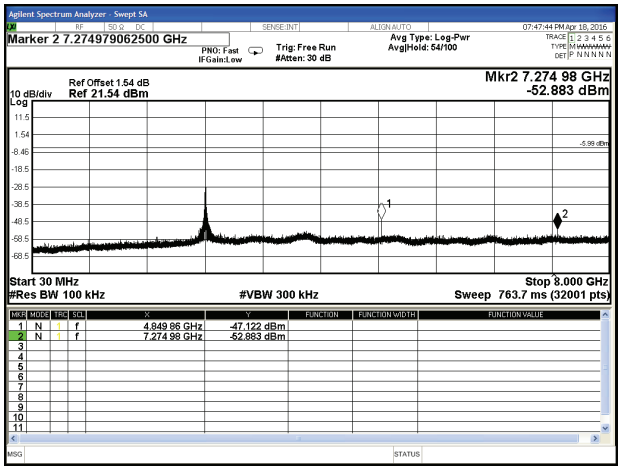
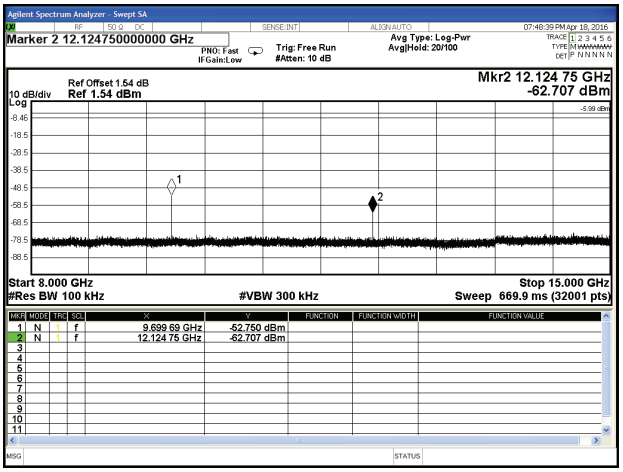
Test Date	2016/04/18	Temp./Hum.	25℃/58%
Mode	TX	Modulation	S-FHSS
		Frequency	2425.00MHz
Cable Loss	1.54dB	Test Voltage	DC 6.0V

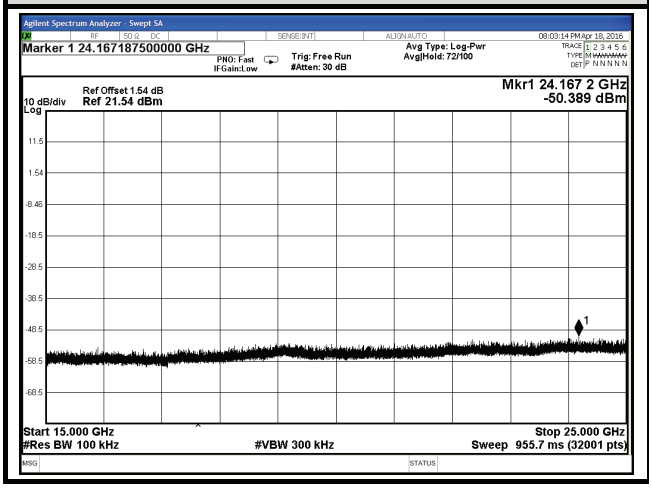
30MHz – 8GHz



8GHz – 15GHz



15GHz – 25GHz



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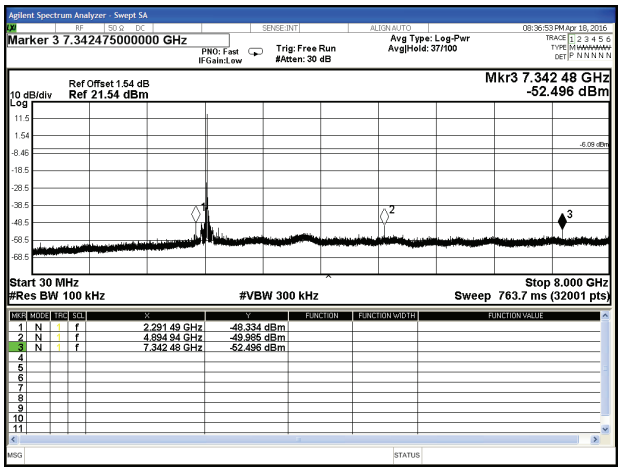
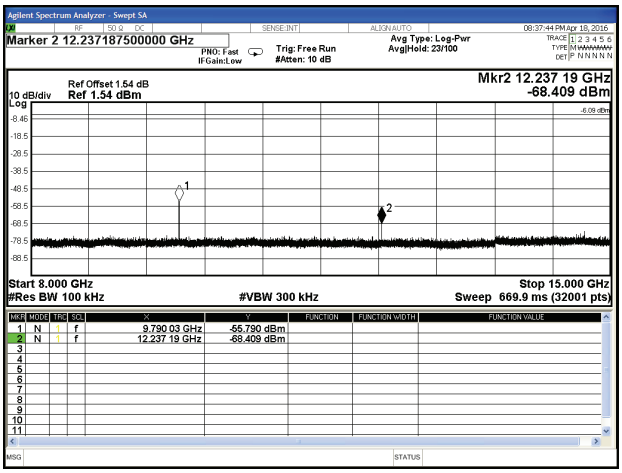
Test Date	2016/04/18	Temp./Hum.	25℃/58%
Mode	TX	Modulation	S-FHSS
		Frequency	2447.50MHz
Cable Loss	1.54dB	Test Voltage	DC 6.0V

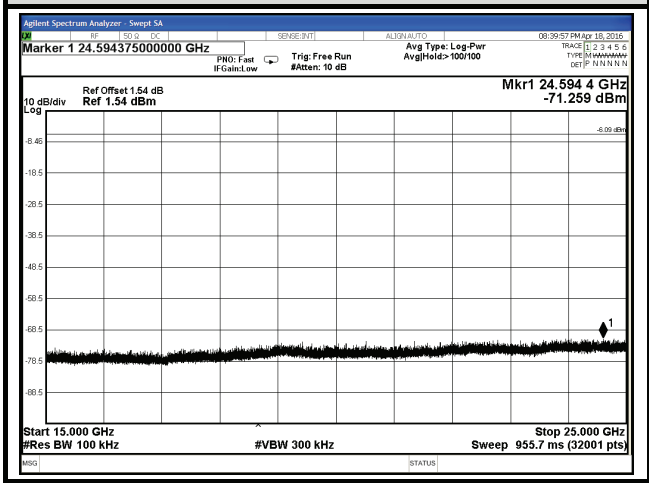
30MHz – 8GHz



8GHz – 15GHz



15GHz – 25GHz



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