

FCC 15.247& RSS-247 2.4 GHz Test Report

for

LG Electronics Inc.

**222, LG-ro Jinwi-myeon, Pyeongtaek-Si, Gyeonggi-Do,
451-713, Korea**

Product Name : Notebook Computer
Model Name : 17U70N
Brand : LG
FCC ID : BEJNT-17U70N
IC : 2703H-17U70N

**Prepared by: : AUDIX Technology Corporation,
EMC Department**



The test report is based on a single evaluation of one sample of the above-mentioned products. It does not imply an assessment of the whole production and does not permit the use of the test lab logo. The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. Government.



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TEST REPORT

Applicant : LG Electronics Inc.
Manufacturer : LG Electronics Inc.
Factory : DIGITEK (CHONGQING) LIMITED
EUT Description
(1) Product : Notebook Computer
(2) Model : 17U70N
(3) Brand : LG
(4) Power Rating : DC 19V

Applicable Standards:

47CFR FCC Part 15 Subpart C
RSS-Gen (Issue 5), April 2018
RSS-247 (Issue 2), February 2017
ANSI C63.10:2013

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 Report: 2020. 03. 12

Reviewed by:

(Tina Huang/Section Manager)

Approved by:

(Johnny Hsueh/Section Manager)



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1. REVISION RECORD OF TEST REPORT

Edition No	Issued Date	Revision Summary	Report Number
0	2020. 03. 12	Original Report	EM-F200117

2. SUMMARY OF TEST RESULTS

Rule		Description	Data Reused	Results
FCC	IC			
15.207	RSS-Gen §8.8	Conducted Emission	No	PASS
15.247(d)/15.205	RSS-Gen §8.9 RSS-247 §5.5	Radiated Band Edge and Radiated Spurious Emission	No	PASS
15.247(a)(1)	RSS-247 §5.1(2)	20dB Bandwidth	Yes	PASS
15.247(a)(1)	RSS-247 §5.1(2)	Carrier Frequency Separation	Yes	PASS
15.247(a)(1)(iii)	RSS-247 §5.1(4)	Time of Occupancy	Yes	PASS
15.247(a)(1)(iii)	RSS-247 §5.1(4)	Number of Hopping Channels	Yes	PASS
15.247(b)(1)	RSS-247 §5.1(2)	Maximum Peak Output Power	SPOT CHECK Note 2	PASS
15.247(d)	RSS-247 §5.5	Conducted Band Edges and Conducted Spurious Emission	Yes	PASS
15.203	RSS-Gen §6.8	Antenna Requirement	---	Compliance
Note: 1. The uncertainties value is not used in determining the result. 2. This device embedded with same radio transmitter with FCC ID: BEJNT-15Z90N, grant on 11/28 2019 and IC: 2703H-15Z90N approved on 12/04/2019. According to KDB 484596 D01, we did spot check for output power and all output power values keep identical thus we reuse all results.				



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3. GENERAL INFORMATION

3.1. Description of Application

Applicant	LG Electronics Inc. 222, LG-ro Jinwi-myeon, Pyeongtaek-Si, Gyeonggi-Do, 451-713, Korea
Manufacturer	LG Electronics Inc. 222, LG-ro Jinwi-myeon, Pyeongtaek-Si, Gyeonggi-Do, 451-713, Korea
Factory	DIGITEK (CHONGQING) LIMITED B01,Section C, Airport Function Zone, Lianglu Cuntan Free Trade Port Area, Yubei District, Chongqing City, China.
Product	Notebook Computer
Model	17U70N
Brand	LG

3.2. Description of EUT

Test Model	17U70N																												
Serial Number	N/A																												
Power Rating	DC 19V																												
Software Version	N/A																												
RF Features	WLAN: 802.11 a/b/g/n/ac/ax Bluetooth: BT and BLE (BT 5.0)																												
Transmit Type	<table border="1"> <thead> <tr> <th colspan="2">2.4 GHz</th></tr> </thead> <tbody> <tr> <td>802.11b</td><td>1T1R</td></tr> <tr> <td>802.11g</td><td>1T1R</td></tr> <tr> <td>802.11n-HT20</td><td>2T2R</td></tr> <tr> <td>802.11n-HT40</td><td>2T2R</td></tr> <tr> <td>802.11ax-HE20</td><td>2T2R</td></tr> <tr> <td>802.11ax-HE40</td><td>2T2R</td></tr> <tr> <td>BT/BLE</td><td>1T1R</td></tr> </tbody> </table> <table border="1"> <thead> <tr> <th colspan="2">UNII Bands</th></tr> </thead> <tbody> <tr> <td>802.11a</td><td>1T1R</td></tr> <tr> <td>802.11n-HT20/802.11ac-VHT20/802.11ax-HE20</td><td>2T2R</td></tr> <tr> <td>802.11n-HT40/802.11ac-VHT40/802.11ax-HE40</td><td>2T2R</td></tr> <tr> <td>802.11ac-VHT80/802.11ax-HE80</td><td>2T2R</td></tr> <tr> <td>802.11ac-VHT160/802.11ax-HE160</td><td>2T2R</td></tr> </tbody> </table> The MIMO is uncorrelated and supported SDM mode only.	2.4 GHz		802.11b	1T1R	802.11g	1T1R	802.11n-HT20	2T2R	802.11n-HT40	2T2R	802.11ax-HE20	2T2R	802.11ax-HE40	2T2R	BT/BLE	1T1R	UNII Bands		802.11a	1T1R	802.11n-HT20/802.11ac-VHT20/802.11ax-HE20	2T2R	802.11n-HT40/802.11ac-VHT40/802.11ax-HE40	2T2R	802.11ac-VHT80/802.11ax-HE80	2T2R	802.11ac-VHT160/802.11ax-HE160	2T2R
2.4 GHz																													
802.11b	1T1R																												
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802.11n-HT40/802.11ac-VHT40/802.11ax-HE40	2T2R																												
802.11ac-VHT80/802.11ax-HE80	2T2R																												
802.11ac-VHT160/802.11ax-HE160	2T2R																												
Sample Status	Mass production																												
Date of Receipt	2020. 03. 04																												
Date of Test	2020. 03. 09 ~ 11																												
Interface Ports of EUT	• One Micro SD Card Slot • One Earphone Port • Two USB 3.0 Ports • One USB 2.0 Port • One USB Type C Port • One HDMI Port • One LAN Port • One DC Input Port																												
Accessories Supplied	• AC Adapter																												

3.3. Antenna Information

No.	Antenna Part Number	Manufacture	Antenna Type	Frequency (MHz)	Max Gain (dBi)
1.	SJ17W Main Antenna (Main)	Hua Cheng (HTK)	PIFA	2400~2500	-2.63
				5150~5850	0.85
	SJ17W Aux Antenna (AUX)	Hua Cheng (HTK)	PIFA	2400~2500	-1.40
				5150~5850	-1.28
2	SJ17W_WLAN MAN ANT_HF Antenna (Main)	ACON (Advanced Wireless & Antenna Inc.)	PIFA	2400~2500	-3.05
				5150~5850	0.36
	SJ17W_WLAN AUX ANT_HF Antenna (AUX)	ACON (Advanced Wireless & Antenna Inc.)	PIFA	2400~2500	-2.85
				5150~5850	-1.47

3.4. EUT Specifications Assessed in Current Report

Mode	Fundamental Range (MHz)	Channel Number	Modulation	Data Rate (Mbps)
Bluetooth	2402-2480	79	FHSS (GFSK, $\pi/4$ DQPSK, 8-DPSK)	1/2/3

Channel List							
Channel Number	Frequency (MHz)	Channel Number	Frequency (MHz)	Channel Number	Frequency (MHz)	Channel Number	Frequency (MHz)
00	2402	20	2422	40	2442	60	2462
01	2403	21	2423	41	2443	61	2463
02	2404	22	2424	42	2444	62	2464
03	2405	23	2425	43	2445	63	2465
04	2406	24	2426	44	2446	64	2466
05	2407	25	2427	45	2447	65	2467
06	2408	26	2428	46	2448	66	2468
07	2409	27	2429	47	2449	67	2469
08	2410	28	2430	48	2450	68	2470
09	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		

3.5. Description of Key Components

3.5.1. For the All Component Lists

Item	Supplier	Model / Type	Character
System	Microsoft	Win10 Home	---
	Microsoft	Win10 Pro	---
Main Board	LG	SJ17C MB	---
SUB Board	LG	SJ17C IO BD	---
CPU (Socket:FCBGA1528)	Intel	i3-10110U	2.1GHz, up to 4.1GHz
		i5-10210U	1.6GHz, up to 4.2GHz
		i7-10510U	1.8GHz, up to 4.9GHz
GPU	NVIDIA	N18P-G0-MP-A1	--
17" LCD Panel	LG Display	LP170WQ1(SP)(A1)	Resolution: 2560 x 1600, 60Hz WQXGA IPS (Normal Non touch)
Storage (SSD) (Max. 2 pcs)	Samsung	MZVLB256HAHQ-00000	NVMe, 256GB
		MZVLB256HBHQ-00000	NVMe, 256GB
		MZVLB512HBQ-00000	NVMe, 512GB
	WD	SDASN8Y-256G-1009	SATA, 256GB
		SDASN8Y-512G-1009	SATA, 512GB
Memory (RAM) (on Board)	SK hynix	H5GC8H24AJR-R2C	GDDR5 256Mb*32
	Micro	MT51J256M32HF	GDDR5 256Mb*32
Memory (RAM) (on card)	Samsung	HMA81GS6CJR8N-VKN0	8GB DDR4 SODIMM
		HMA851S6CJR6N-VKN0	4GB DDR4 SODIMM
	SK hynix	M471A1K43CB1-CTD	8GB DDR4 SODIMM (on Card)
		M471A5244CB0-CTD	4GB DDR4 SODIMM
Battery Pack	LG	LBS1224E	72Wh, DC7.7V, 9450mAh
WLAN Combo Card	Intel	AX201D2W	WWLAN and BT, 2x2 CNVi 1216 FCC ID: PD9AX201D2 IC: 1000M-AX201D2
WLAN Combo Antenna	ACON (Advanced Wireless & Antenna Inc.)	SJ17W_WLAN MAN ANT_HF Antenna	PIFA Type Main: Black, Aux: White
		SJ17W_WLAN AUX ANT_HF Antenna	
	Hua Cheng (HTK)	SJ17W Main Antenna	PIFA Type Main: Black, Aux: White
		SJ17W Aux Antenna	
Click Pad	ELAN	SB876A-26H0	--
	LITEON	SG-96010-00A	--

Item	Supplier	Model / Type	Character
Web Camera	Chicony	CKFIH3421005110LH	With two microphones
AC Adapter	Chicony	A15-120P1A	I/P: AC 100-240V, 50-60Hz, 2.0A, O/P: DC 19V, 6.32A, 120W
	Chicony	A12-065N2A	I/P: AC 100-240V, 50-60Hz, 1.7A, O/P: DC 19V, 3.42A, 65W
	DC Power Cord: Non-Shielded, Undetached, 1.8m, bonded a ferrite core AC Power Cord: Non-Shielded, Detached, 1m (3C)		

Remark: For more detailed features description, please refer to the manufacturer's specifications or the user manual.

3.5.2. The EUT collocates with following worst components, which are used to establish a basic configuration of system during test:

SKU		1	2
System	Microsoft, Win10 Home	V	V
Main Board	LG, SJ17C MB	V	V
SUB Board	LG, SJ17C IO BD	V	V
CPU	Intel, i7-10510U	V	
	Intel, i5-10210U		V
GPU	NVIDIA, N18P-G0-MP-A1	V	
17" LCD Panel	LG Display, LP170WQ1(SP)(A1)	V	V
Storage (SSD)	Samsung, MZVLB256HAHQ-00000, 256GB	V	V
	Samsung, MZVLB512HBJQ-00000, 512GB	V	
Memory (RAM) (on Board)	SK hynix, GDDR5 256Mb*32	V	
Memory (RAM) (on Card)	Samsung, 4GB		V
	Samsung, 8GB x2	V	
	SK hynix, 4GB		V
Battery Pack	LG, LBS1224E	V	V
WLAN Combo Card	Intel, AX201D2W	V	V
WLAN Combo Antenna	ACON (Advanced Wireless & Antenna Inc.), Main & AUX		V
	Hua Cheng (HTK), Main & AUX	V	
Click Pad	ELAN, SB876A-26H0	V	V
Web Camera	Chicony, CKFIH3421005110LH	V	V
AC Adapter	Chicony, A15-120P1A	V	
	Chicony, A12-065N2A		V

3.6. Test Configuration

Mode	Duty Cycle (x)	T (ms)	Duty Cycle Correction Factor (dB)
BT	N/A	2.890	N/A

AC Conduction	
SKU #1	Normal operation (with A15-120P1A ADP)
SKU #2	Normal operation (with A12-065N2A ADP)

Item		Modulation	Data Rate	Test Channel
Radiated Test Case	Radiated Band Edge ^{Note1 & 4}	GFSK	1Mbps	00/78
		8-DPSK	3Mbps	00/78
	Radiated Spurious Emission ^{Note1 & 4}	GFSK	1Mbps	00/39/78
Conducted Test Case	20dB Bandwidth (Data Reused)	GFSK	1Mbps	00/39/78
		8-DPSK	3Mbps	00/39/78
	Carrier Frequency Separation (Data Reused)	GFSK	1Mbps	00/39/78
		8-DPSK	3Mbps	00/39/78
	Time of Occupancy (Data Reused)	GFSK	1Mbps	00/39/78
		8-DPSK	3Mbps	00/39/78
	Number of Hopping Channels (Data Reused)	GFSK	1Mbps	39
		8-DPSK	3Mbps	39
	Maximum Peak Output Power (SPOT Check)	GFSK	1Mbps	00/39/78
		8-DPSK	3Mbps	00/39/78
	Band Edges (Data Reused)	GFSK	1Mbps	00/78
		8-DPSK	3Mbps	00/78
	Spurious Emission (Data Reused)	GFSK	1Mbps	00/39/78
		8-DPSK	3Mbps	00/39/78

Note 1: ☐ Mobile Device

☒ Portable Device, and 3 axis were assessed. The worst scenario for Radiated Spurious Emission as follow: ☒ Lie ☐ Side ☐ Stand

Note 2: Both of the antennas are the same type, we performed testing of the highest antenna gain SKU #1 (with HTK Antenna).

Note 3: We performed testing of the highest and lowest data rate.

Note 4: Both of the antennas are the same type, we performed testing of the highest antenna gain SKU #1 (with HTK Antenna).

3.7. Tested Supporting System List

3.7.1. Support Peripheral Unit

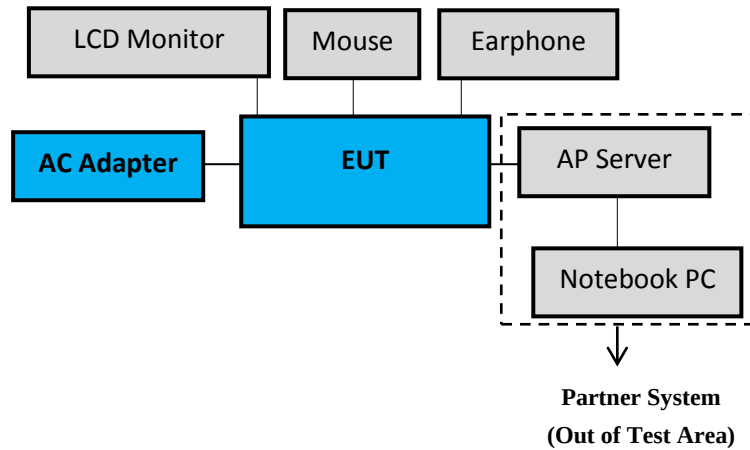
No.	Product	Brand	Model No.	Serial No.	Approval
1.	LCD Monitor	LG	22LK330-DB	N/A	N/A
2.	USB Mouse	hp	N910U	N/A	FCC By DoC
3.	Earphone	APPLE	N/A	N/A	N/A
4.	Mobile Phone	APPLE	A2097	N/A	NCC ID: CCAI184G0070T9
5.	Memory Card	Apacer	N/A	N/A	FCC By DoC
Partner System					
6.	AP Server	D-Link	DIR-868L	R3WE1D7002319	FCC ID: KA2IR868LA1 Contains FCC ID: RRK2012060056-1
7.	Notebook PC	Lenovo	TP00034A	895097	FCC By DoC

3.7.2. Cable Lists

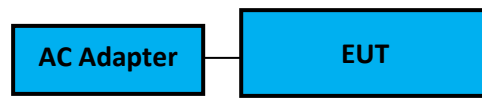
No.	Cable Description Of The Above Support Units
1.	HDMI Cable: Shielded, Detachable, 1.5m AC Power Cord: Unshielded, Detachable, 1.8m
2.	USB Cable: Unshielded, Undetachable, 1.8m
3.	Earphone Cable: Unshielded, Undetachable, 0.9m
4.	USB Type C to lightning Cable: Shielded, Detachable, 1.0m
5.	N/A
6.	AC adapter: M/N:WA-30B12, Cable: Unshielded, Detachable, 1.2m LAN cable: Unshielded, Detachable, 3.0m
7.	LAN cable: Unshielded, Detachable, 1.8m

3.8. Setup Configuration

3.8.1. EUT Configuration for Power Line & Radiated Emission Test Items



3.8.2. EUT Configuration for RF Conducted & Radiated Emission Test Items



3.9. Operating Condition of EUT

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

3.10. Description of Test Facility

Name of Test Firm	Audix Technology Corporation / EMC Department No. 53-11, Dingfu, Linkou Dist., New Taipei City 244, Taiwan Tel: +886-2-26092133 Fax: +886-2-26099303 Website : www.audixtech.com Contact e-mail: attemc_report@audixtech.com
Accreditations	The laboratory is accredited by following organizations under ISO/IEC 17025:2017 (1) NVLAP(USA) NVLAP Lab Code 200077-0 (2) TAF(Taiwan) No. 1724
Test Facilities	FCC OET Designation Number under APEC MRA by NCC is : TW1724 ISED CAB Identifier Number under APEC TEL MRA by NCC is TW1724 (1) No.8 Shielded Room (2) No.1 3m Semi Anechoic Chamber (3) Fully Anechoic Chamber

3.11.Measurement Uncertainty

Test Items/Facilities		Frequency Range	Uncertainty
Conduction Test		9kHz-150kHz	±3.7dB
		150kHz-30MHz	±3.5dB
Radiation Test	No.1 3m Semi Anechoic Chamber	30MHz-200MHz, 3m, Horizontal	±4.1dB
		200MHz-1000MHz, 3m, Horizontal	±3.9dB
		30MHz-200MHz, 3m, Vertical	±4.2dB
		200MHz-1000MHz, 3m, Vertical	±4.1dB
		1GHz-6GHz, 3m	±4.2dB
		6GHz-18GHz, 3m	±4.6dB
	No.3 3m Semi Anechoic Chamber	30MHz-200MHz, 3m, Horizontal	±3.9dB
		200MHz-1000MHz, 3m, Horizontal	±3.9dB
		30MHz-200MHz, 3m, Vertical	±4.4dB
		200MHz-1000MHz, 3m, Vertical	±4.1dB
	No.4 3m Semi Anechoic Chamber	30MHz-200MHz, 3m, Horizontal	±4.3dB
		200MHz-1000MHz, 3m, Horizontal	±4.0dB
		30MHz-200MHz, 3m, Vertical	±4.3dB
		200MHz-1000MHz, 3m, Vertical	±4.4dB
		1GHz-6GHz, 3m	±4.5dB
		6GHz-18GHz, 3m	±4.6dB
	No.5 3m Semi Anechoic Chamber	30MHz-200MHz, 3m, Horizontal	±4.0dB
		200MHz-1000MHz, 3m, Horizontal	±3.9dB
		30MHz-200MHz, 3m, Vertical	±4.2dB
		200MHz-1000MHz, 3m, Vertical	±4.3dB
		1GHz-6GHz, 3m	±4.3dB
		6GHz-18GHz, 3m	±4.7dB
	Fully Anechoic Chamber	30MHz~1000MHz	±4.7dB
		1GHz~18GHz	±5.3dB

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

4. MEASUREMENT EQUIPMENT LIST

4.1. Conducted Emission Measurement

Item	Type	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Interval
1.	Test Receiver	R&S	ESR3	101774	2020. 02. 04	1 Year
2.	A.M.N.	R&S	ENV4200	100169	2019. 11. 13	1 Year
3.	L.I.S.N.	Kyoritsu	KNW-407	8-855-9	2019. 12. 10	1 Year
4.	Pulse Limiter	R&S	ESH3-Z2	100354	2020. 01. 05	1 Year
5.	Digital Thermo-Hygro Meter	iMax	HTC-1	No.8 S/R	2019. 04. 20	1 Year
6.	Coaxial Cable	Yeida	RG/58AU	CE-08	2019. 09. 20	1 Year
7.	Test Software	Audix	e3	V6.120619c	N.C.R.	N.C.R.

4.2. Radiated Emission Measurement

Item	Type	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Interval
1.	Spectrum Analyzer	Agilent	N9010A-507	MY52220264	2019. 08. 07	1 Year
2.	Spectrum Analyzer	Agilent	N9030A-526	MY53310269	2020. 01.16	1 Year
3.	Test Receiver	R&S	ESCS30	100338	2019. 06.12	1 Year
4.	Amplifier	HP	8447D	2944A06305	2020. 01. 16	1 Year
5.	Amplifier	HP	8449B	3008A02678	2020. 02. 27	1 Year
6.	Amplifier	Keysight	83051A	MY53010042	2019. 08. 08	1 Year
7.	Loop Antenna	R&S	HFH2-Z2	891847/27	2019. 12. 26	2 Years
8.	Bilog Antenna	TESEQ	CBL6112D	33821	2020. 01. 17	1 Year
9.	Horn Antenna	EMCO	3115	9609-4927	2019. 06. 24	1 Year
10.	Horn Antenna	COM-POWER	AH-840	101092	2019 .05. 14	1 Year
11.	2.4GHz Notch Filter	K&L	7NSL10-2441 .5/E130.5-O/ O	1	2019. 07. 24	1 Year
12.	3GHz Notch Filter	Microwave	H3G018G1	484796	2019. 08. 21	1 Year
13.	Coaxial Cable	MIYAZAKI	5D2W	RE-11	2020. 01. 31	1 Year
14.	Coaxial Cable	HUBER+SU HNER	SUCOFLEX 104	RF CABLE-01	2019. 09. 20	1 Year
15.	Coaxial Cable	HUBER+ SUHNER	SUCOFLEX 102	No.1 18-40GHz Cable	2019. 09. 20	1 Year
16.	Digital Thermo-Hygro Meter	iMax	HTC-1	No.1 3m A/C	2019. 04. 20	1 Year
17.	Test Software	Audix	e3	V6.120619c	N.C.R.	N.C.R.

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4.3. RF Conducted Measurement

Item	Type	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Interval
1.	Spectrum Analyzer	Keysight	N9020B-544	MY57120357	2019. 01. 17	1 Year
2.	Power Meter	Anritsu	ML2495A	1145008	2019. 11. 06	1 Year
3.	Power Sensor	Anritsu	MA2411B	1126096	2019. 11. 06	1 Year
4.	Digital Thermo-Hygro Meter	Shenzhen Datronn Electronics	KT-905	RF	2019. 04. 20	1 Year

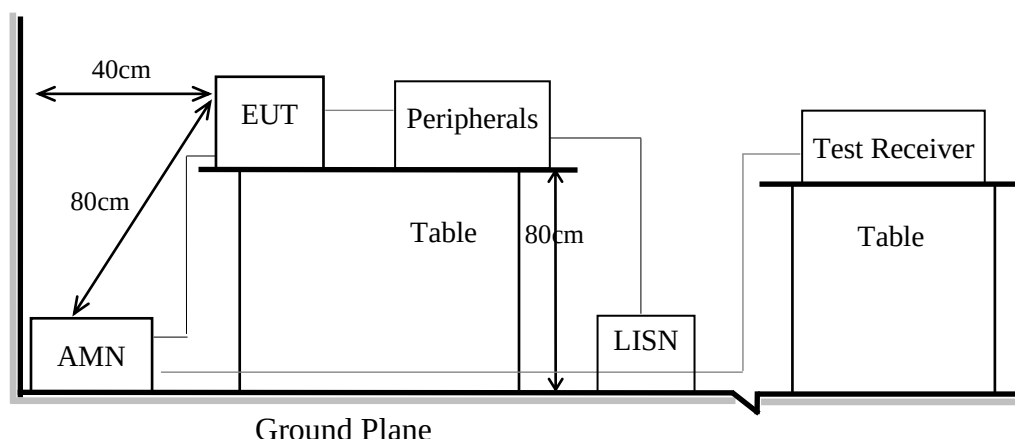
5. CONDUCTED EMISSION

5.1. Block Diagram of Test Setup

5.1.1. Block Diagram of EUT

Indicated as section 3.8

5.1.2. Shielded Room Setup Diagram



5.2. Conducted Emission Limit

Frequency	Conducted Limit	
	Quasi-Peak Level	Average Level
150kHz ~ 500kHz	66 ~ 56 dB μ V	56 ~ 46 dB μ V
500kHz ~ 5MHz	56 dB μ V	46 dB μ V
5MHz ~ 30MHz	60 dB μ V	50 dB μ V

Remark1.: If the average limit is met when using a Quasi-Peak detector, the measurement using the average detector is not required.

2.: The lower limit applies to the band edges.

5.3. Test Procedure

- 5.3.1. To set up the EUT as indicated in ANSI C63.10. The EUT was placed on the table which has 80 cm height to the ground and 40 cm distance to the conducting wall.
- 5.3.2. Power supplier of the EUT was connected to the AC mains through an Artificial Mains Network (A.M.N.).
- 5.3.3. The AC power supplies to all peripheral devices must be provided through line impedance stabilization network (L.I.S.N.)
- 5.3.4. Checking frequency range from 150kHz to 30 MHz and record the emission which does not have 20 dB below limit.



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5.4. Test Results

Please refer to Appendix A.

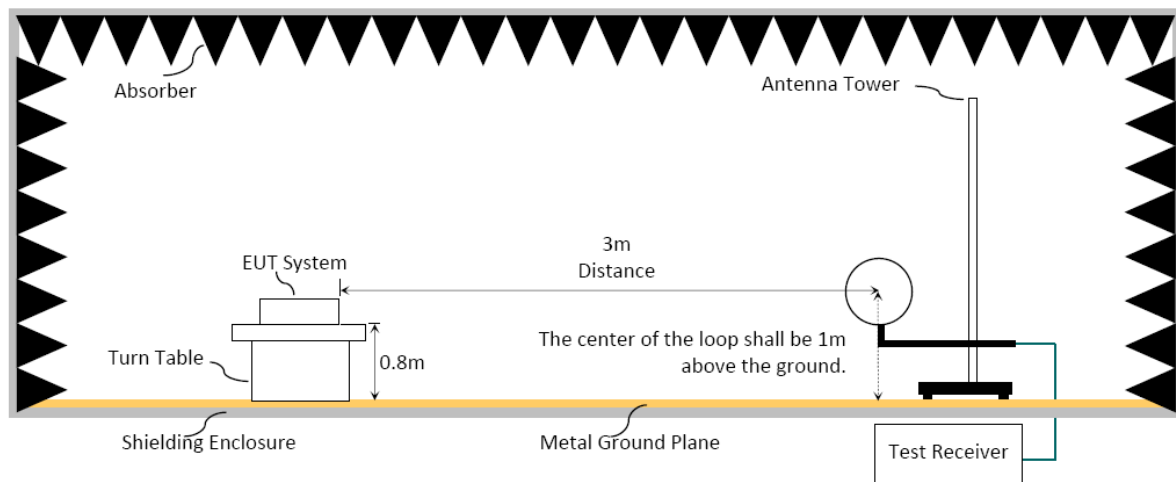
6. RADIATED EMISSION

6.1. Block Diagram of Test Setup

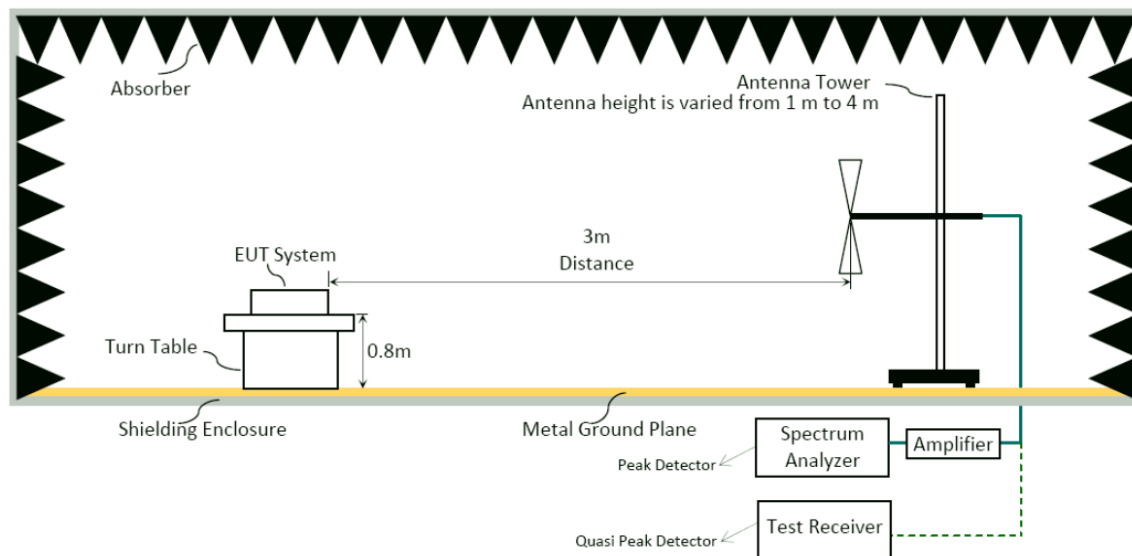
6.1.1. Block Diagram of EUT

Indicated as section 3.8

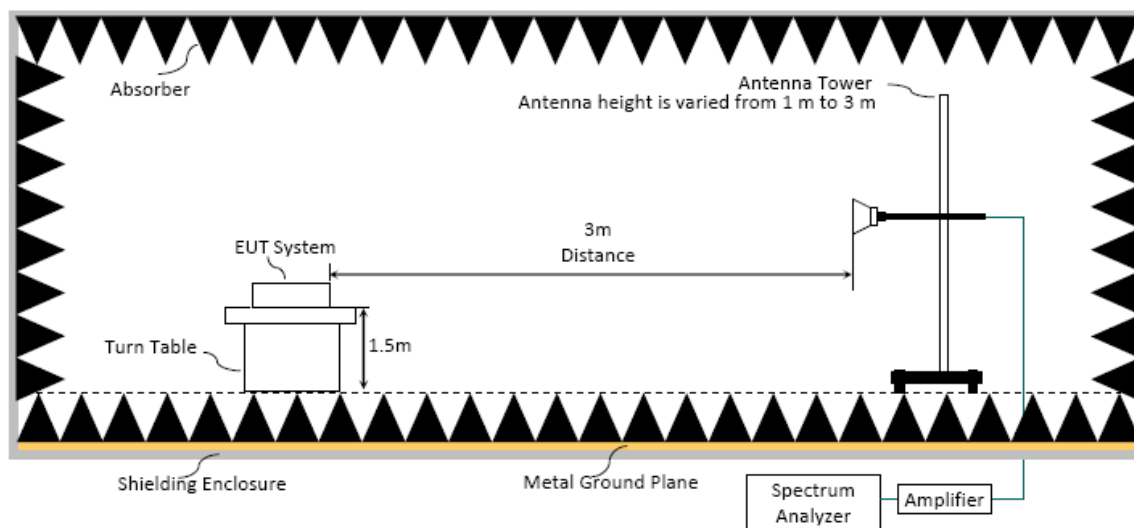
6.1.2. Setup Diagram for 9kHz-30MHz



6.1.3. Setup Diagram for 30-1000MHz



6.1.4. Setup Diagram for above 1GHz



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/RSS-Gen Section 8.10 table 6, must also comply with the radiated emission limits specified as below.

Frequency (MHz)	Distance(m)	Limits	
		dB μ V/m	μ V/m
0.009 - 0.490	300	67.6-20 log f(kHz)	2400/f kHz
0.490 - 1.705	30	87.6-20 log f(kHz)	24000/f kHz
1.705 - 30	30	29.5	30
30 - 88	3	40.0	100
88- 216	3	43.5	150
216- 960	3	46.0	200
Above 960	3	54.0	500
Above 1000	3	74.0 dB μ V/m (Peak) 54.0 dB μ V/m (Average)	

Remark : (1) dB μ V/m = 20 log (μ V/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

Frequency Range 9kHz~30MHz:

The EUT setup on the turntable which has 0.8 m height to the ground. The turn table rotated 360 degrees and antenna fixed to 1 m to find the maximum emission level. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10-2013 regulation.

- (1) RBW = 9kHz with peak and average detector.
- (2) Detector: average and peak (9kHz-490kHz)
Q.P. (490kHz-30MHz)

Frequency Range 30MHz ~ 25GHz:

The EUT setup on the turn table which has 80cm (for 30-1000MHz) and 1.5m (for above 1GHz) height to the ground. The turn table rotated 360 degrees and antenna varied from 1 m to 4 m (for 30-1000MHz) and from 1m to 3m (for above 1GHz) 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 $\geq 3 \times$ RBW.
- (3) Detector = Peak.
- (4) Sweep time = auto.
- (5) Trace mode = max hold.
- (6) Allow sweeps to continue until the trace stabilizes.

Note 1: When peak-detected value is lower than limit that the measurement using the Q.P. detector is not required, otherwise using Q.P. for final measurement.

Note 2: When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds.

Frequency above 1GHz to 10th harmonic(up to 25 GHz):

Peak Detector:

- (1) RBW = 1MHz
- (2) VBW $\geq 3 \times$ RBW.
- (3) Detector = Peak.
- (4) Sweep time = auto.
- (5) Trace mode = max hold.
- (6) Allow sweeps to continue until the trace stabilizes.

Note: When peak-detected value is lower than limit that the measurement using the average detector is not required, otherwise using average detector for final measurement.

Average Detector:**■ Option 1:**

- (1) RBW = 1MHz
- (2) VBW $\geq 1/T$.
- (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 (including Preamp factor if test used)

■ Average Emission Level = Antenna Factor + Cable Loss + Meter Reading (including Preamp factor if test used)

□ Average Emission Level = Peak Emission Level + DCCF

Duty Cycle Correction Factor (DCCF) = $20\log(TX_{on}/TX_{on+off})$ presented in section 3.6

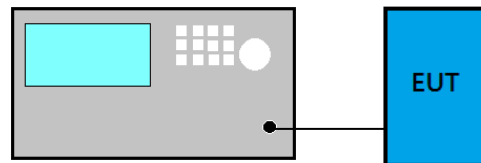
□ ERP = Peak Emission Level - 95.2dB - 2.14dB

6.5. Test Results

Please refer to Appendix A.

7. 20dB BANDWIDTH

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 to ANSI C63.10:2013:

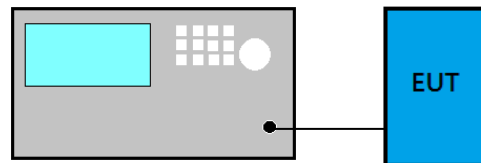
- (1) Set RBW close to 1% to 5% of OBW.
- (2) Set $VBW \geq 3 \times RBW$.
- (3) Detector = Peak.
- (4) Trace mode = Max hold.
- (5) Sweep = Auto couple.
- (6) Allow the trace to stabilize.
- (7) Setting channel bandwidth function x dB to -20 dB to record the final bandwidth.

7.4. Test Results

Please refer to Appendix A

8. CARRIER FREQUENCY SEPARATION

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 ANSI C63.10:2013:

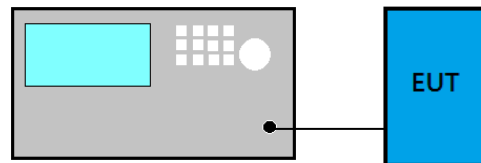
- (1) Span = Wide enough to capture the peaks of two adjacent channels
- (2) RBW: Start with the RBW set to approximately 30% of the channel spacing; adjust as necessary to best identify the center of each individual channel.
- (3) $VBW \geq RBW$
- (4) Sweep = Auto
- (5) Detector function = Peak
- (6) Trace = Max hold
- (7) Allow the trace to stabilize.

8.4. Test Results

Please refer to Appendix A

9. TIME OF OCCUPANCY

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 ANSI C63.10:2013:

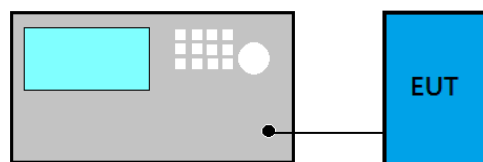
- (1) Span: Zero span, centered on a hopping channel.
- (2) RBW shall be $\leq$ channel spacing and where possible RBW should be set $\gg 1/T$, where T is the expected dwell time per channel.
- (3) Sweep: As necessary to capture the entire dwell time per hopping channel; where possible use a video trigger and trigger delay so that the transmitted signal starts a little to the right of the start of the plot. The trigger level might need slight adjustment to prevent triggering when the system hops on an adjacent channel; a second plot might be needed with a longer sweep time to show two successive hops on a channel.
- (4) Detector function = Peak
- (5) Trace = Max hold

9.4. Test Results

Please refer to Appendix A

10. NUMBER OF HOPPING CHANNELS

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 ANSI C63.10:2013:

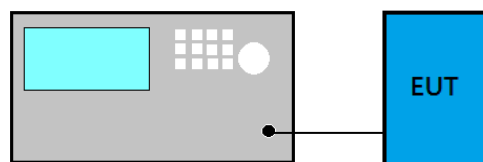
- (1) Span: The frequency band of operation. Depending on the number of channels the device supports, it may be necessary to divide the frequency range of operation across multiple spans, to allow the individual channels to be clearly seen.
- (2) RBW: To identify clearly the individual channels, set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller.
- (3) VBW $\geq$ RBW
- (4) Sweep = Auto
- (5) Detector function = Peak
- (6) Trace = m=Max hold
- (7) Allow the trace to stabilize.

10.4. Test Results

Please refer to Appendix A

11. MAXIMUM PEAK OUTPUT POWER

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 ANSI C63.10:2013:

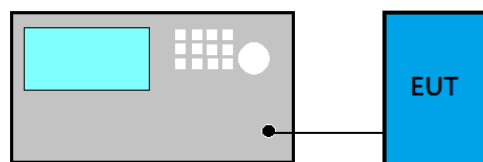
- (a) Use the following spectrum analyzer settings
 - (1) Span: Approximately five times the 20 dB bandwidth, centered on a hopping channel.
 - (2) RBW > 20 dB bandwidth of the emission being measured.
 - (3) VBW $\geq$ RBW
 - (4) Sweep: Auto
 - (5) Detector function: Peak
 - (6) Trace: Max hold
- (b) Allow trace to stabilize.
- (c) Use the marker-to-peak function to set the marker to the peak of the emission.

11.4. Test Results

Please refer to Appendix A

12. EMISSION LIMITATIONS

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. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, that the required attenuation shall be 30 dB instead of 20 dB.

Attenuation below the general limits specified in Section 15.209(a)/RSS-Gen Section 8.9 table 4 is not required. In addition, radiated emissions which fall in restricted bands, as defined in Section 15.205(a)/RSS-Gen Section 8.10 table 6, must also comply with the radiated emission limits specified in Section 15.209(a)/RSS-Gen Section 8.9 table 4 (See Section 15.205(c)).

12.3. Test Procedure

Following measurement procedure is reference to ANSI C63.10:2013:

- (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 $\geq$ RBW
- (4) Sweep = Auto
- (5) Detector function = Peak
- (6) Trace = Max hold

12.4. Test Results

Please refer to Appendix A



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13.DEVIATION TO TEST SPECIFICATIONS

【NONE】



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APPENDIX A

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APPENDIX A

TEST DATA AND PLOTS

(Model: 17U70N)

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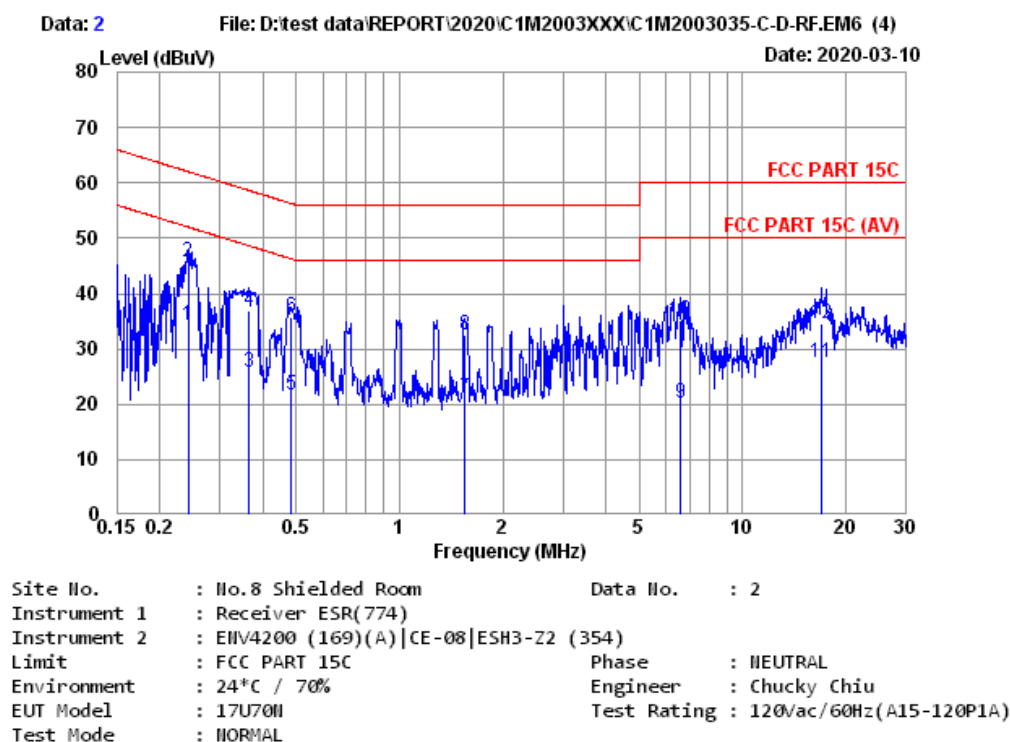
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A.1 CONDUCTED EMISSION

Test Date	2020/03/10	Temp./Hum.	24°C/70%
Test Voltage	AC 120V 60Hz (Via AC Adapter)	Tested By	Chucky Chiu
Test SKU	SKU #1		



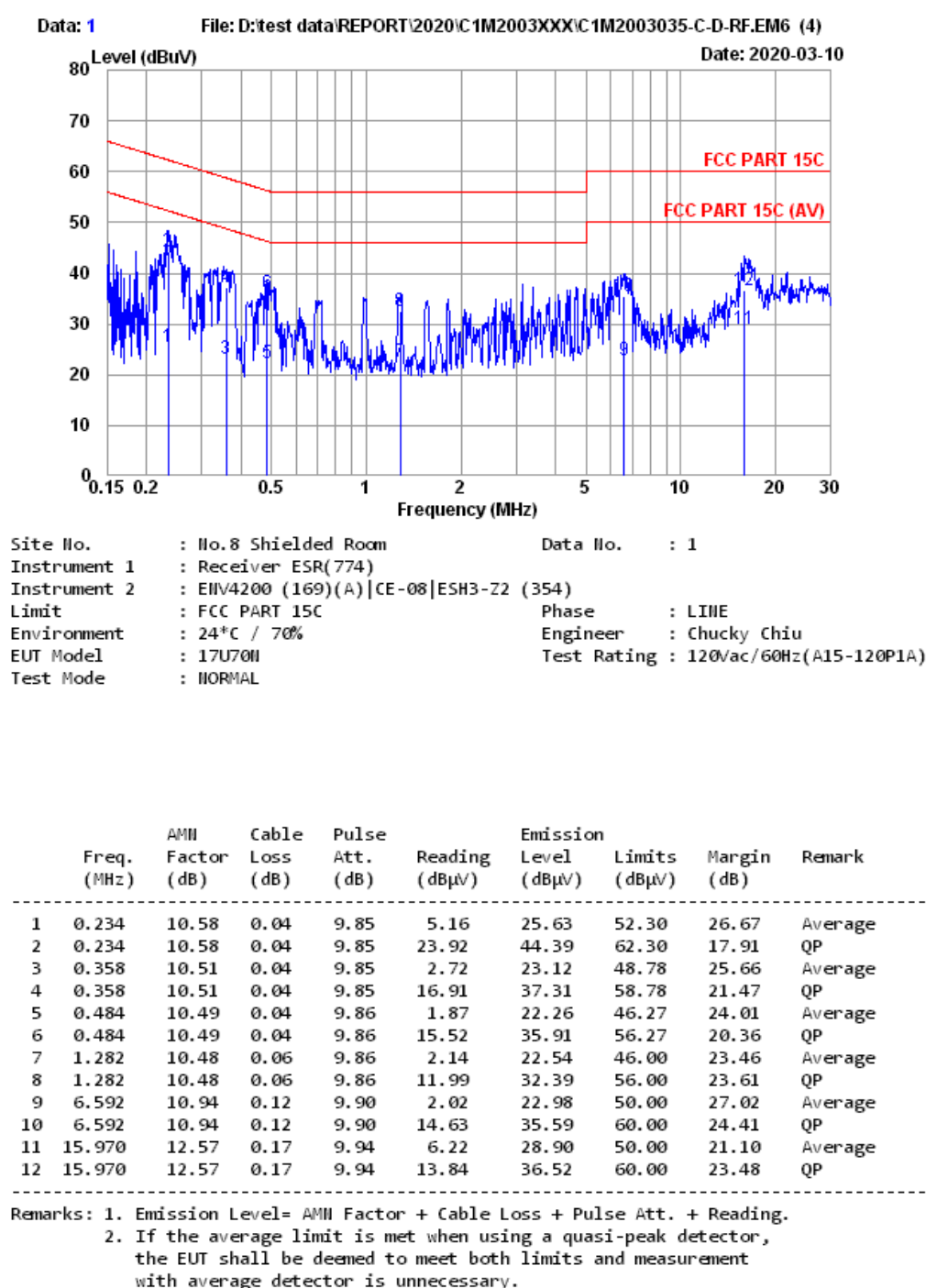
	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Pulse Att. (dB)	Reading (dBμV)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Remark
1	0.242	10.61	0.04	9.85	13.73	34.23	52.04	17.81	Average
2	0.242	10.61	0.04	9.85	25.18	45.68	62.04	16.36	QP
3	0.365	10.54	0.04	9.85	5.39	25.82	48.61	22.79	Average
4	0.365	10.54	0.04	9.85	16.53	36.96	58.61	21.65	QP
5	0.484	10.52	0.04	9.86	1.37	21.79	46.27	24.48	Average
6	0.484	10.52	0.04	9.86	15.30	35.72	56.27	20.55	QP
7	1.552	10.53	0.06	9.86	0.60	21.05	46.00	24.95	Average
8	1.552	10.53	0.06	9.86	11.95	32.40	56.00	23.60	QP
9	6.592	11.09	0.12	9.90	-0.78	20.33	50.00	29.67	Average
10	6.592	11.09	0.12	9.90	14.10	35.21	60.00	24.79	QP
11	16.928	13.10	0.17	9.95	4.22	27.44	50.00	22.56	Average
12	16.928	13.10	0.17	9.95	11.28	34.50	60.00	25.50	QP

Remarks: 1. Emission Level= AMN Factor + Cable Loss + Pulse Att. + Reading.
2. If the average limit is met when using a quasi-peak detector,
the EUT shall be deemed to meet both limits and measurement
with average detector is unnecessary.

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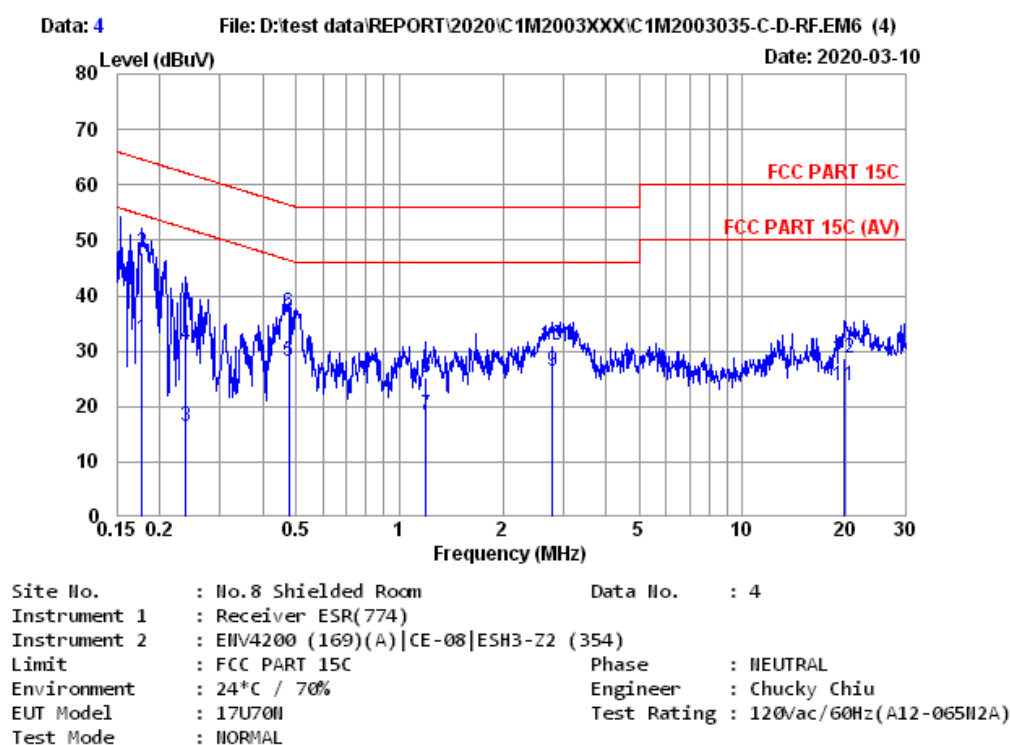
Test Date	2020/03/10	Temp./Hum.	24°C/70%
Test Voltage	AC 120V 60Hz (Via AC Adapter)	Tested By	Chucky Chiu
Test SKU	SKU #1		



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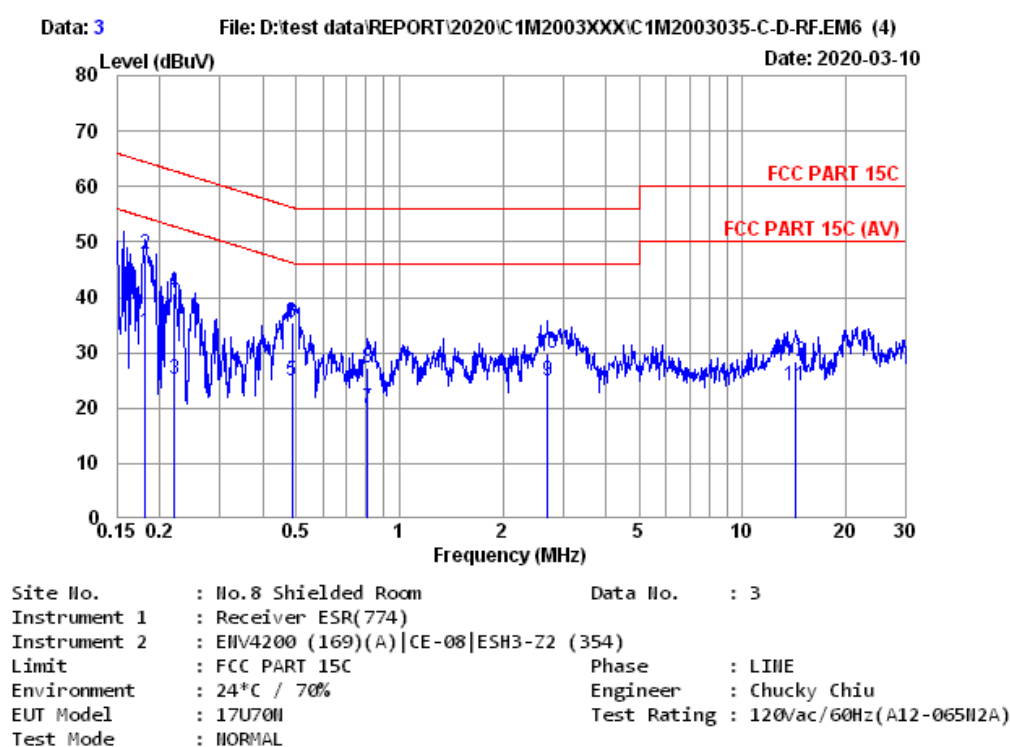
Test Date	2020/03/10	Temp./Hum.	24°C/70%
Test Voltage	AC 120V 60Hz (Via AC Adapter)	Tested By	Chucky Chiu
Test SKU	SKU #2		



	Freq. (MHz)	AM/FM Factor (dB)	Cable Loss (dB)	Pulse Att. (dB)	Reading (dBμV)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Remark
1	0.178	10.69	0.04	9.85	11.67	32.25	54.59	22.34	Average
2	0.178	10.69	0.04	9.85	27.23	47.81	64.59	16.78	QP
3	0.238	10.62	0.04	9.85	-4.04	16.47	52.17	35.70	Average
4	0.238	10.62	0.04	9.85	10.48	30.99	62.17	31.18	QP
5	0.476	10.52	0.04	9.86	7.81	28.23	46.41	18.18	Average
6	0.476	10.52	0.04	9.86	16.36	36.78	56.41	19.63	QP
7	1.197	10.51	0.05	9.86	-1.95	18.47	46.00	27.53	Average
8	1.197	10.51	0.05	9.86	4.69	25.11	56.00	30.89	QP
9	2.794	10.61	0.08	9.87	5.74	26.30	46.00	19.70	Average
10	2.794	10.61	0.08	9.87	10.46	31.02	56.00	24.98	QP
11	19.845	13.60	0.19	9.96	-0.05	23.70	50.00	26.30	Average
12	19.845	13.60	0.19	9.96	5.08	28.83	60.00	31.17	QP

Remarks: 1. Emission Level= AM/FM Factor + Cable Loss + Pulse Att. + Reading.
2. If the average limit is met when using a quasi-peak detector,
the EUT shall be deemed to meet both limits and measurement
with average detector is unnecessary.

Test Date	2020/03/10	Temp./Hum.	24°C/70%
Test Voltage	AC 120V 60Hz (Via AC Adapter)	Tested By	Chucky Chiu
Test SKU	SKU #2		



	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Pulse Att. (dB)	Reading (dBμV)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Remark
1	0.182	10.63	0.04	9.85	13.24	33.76	54.42	20.66	Average
2	0.182	10.63	0.04	9.85	27.25	47.77	64.42	16.65	QP
3	0.221	10.59	0.04	9.85	4.74	25.22	52.79	27.57	Average
4	0.221	10.59	0.04	9.85	20.19	40.67	62.79	22.12	QP
5	0.486	10.49	0.04	9.86	4.38	24.77	46.23	21.46	Average
6	0.486	10.49	0.04	9.86	15.10	35.49	56.23	20.74	QP
7	0.809	10.47	0.05	9.86	-0.45	19.93	46.00	26.07	Average
8	0.809	10.47	0.05	9.86	6.97	27.35	56.00	28.65	QP
9	2.707	10.55	0.08	9.87	4.31	24.81	46.00	21.19	Average
10	2.707	10.55	0.08	9.87	9.31	29.81	56.00	26.19	QP
11	14.288	12.25	0.16	9.94	1.70	24.05	50.00	25.95	Average
12	14.288	12.25	0.16	9.94	5.97	28.32	60.00	31.68	QP

Remarks: 1. Emission Level= AMN Factor + Cable Loss + Pulse Att. + Reading.
2. If the average limit is met when using a quasi-peak detector,
the EUT shall be deemed to meet both limits and measurement
with average detector is unnecessary.

A.2 RADIATED EMISSION

Test Date	2020/03/09~11	Temp./Hum.	22~23°C /59~67%
Test Voltage	AC 120V 60Hz (Via AC Adapter)	Tested By	Sam Chang
Test SKU	SKU #1		

A.2.1 Emissions within Restricted Frequency Bands

A.2.1.1 Frequency 9kHz~30MHz

The emissions (9kHz~30MHz) not reported for there is no emission be found.

A.2.1.2 Frequency Below 1 GHz

Mode	GFSK	Frequency	TX 2441MHz
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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
32.910	22.98	1.29	1.06	25.33	40.00	14.67	Peak
101.780	16.92	2.45	4.63	24.00	43.50	19.50	Peak
406.360	21.95	6.08	2.05	30.08	46.00	15.92	Peak
707.060	25.07	7.65	2.25	34.97	46.00	11.03	Peak
915.610	26.92	8.79	1.82	37.53	46.00	8.47	Peak
961.200	27.19	8.99	2.05	38.23	54.00	15.77	Peak

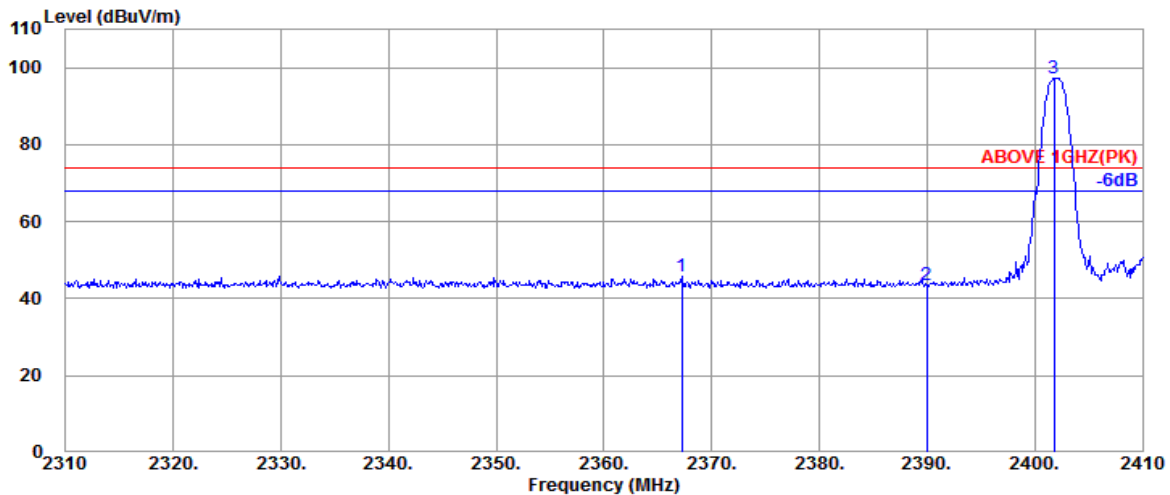
Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
32.910	22.98	1.29	0.44	24.71	40.00	15.29	Peak
140.580	18.04	2.95	1.84	22.83	43.50	20.67	Peak
384.050	21.47	5.79	2.14	29.40	46.00	16.60	Peak
670.200	24.93	7.44	1.86	34.23	46.00	11.77	Peak
831.220	26.33	8.31	2.32	36.96	46.00	9.04	Peak
980.600	27.28	9.07	2.22	38.57	54.00	15.43	Peak

A.2.1.3 Frequency Above 1 GHz to 10th harmonics

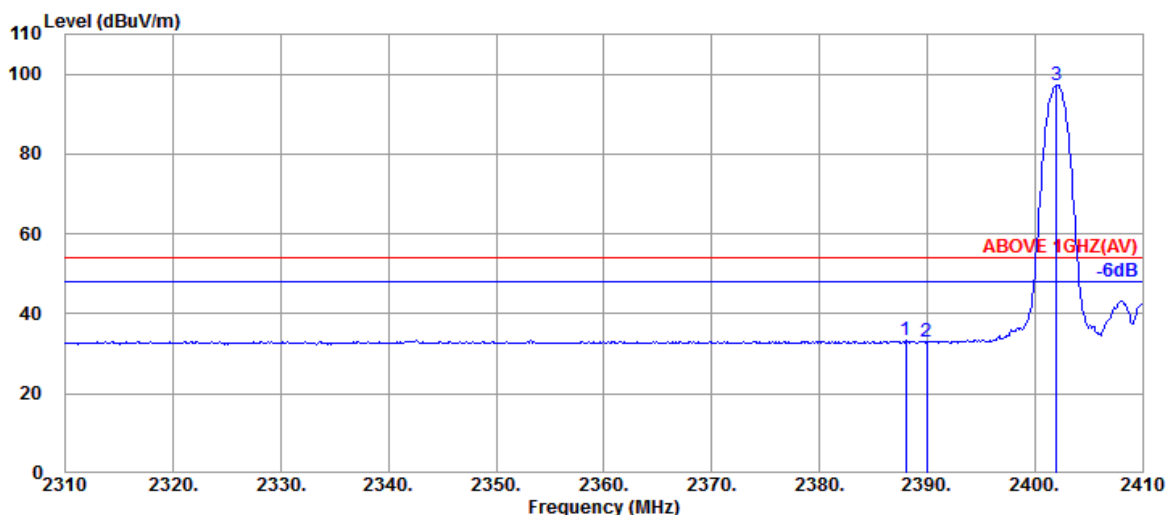
Band Edge:

Mode	GFSK	Frequency	TX 2402MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
2367.200	28.13	8.49	9.26	45.88	74.00	28.12	Peak
2390.000	28.40	8.52	6.65	43.57	74.00	30.43	Peak
@ 2401.800	28.40	8.52	60.35	97.27	---	---	Peak



Antenna at Horizontal Polarization

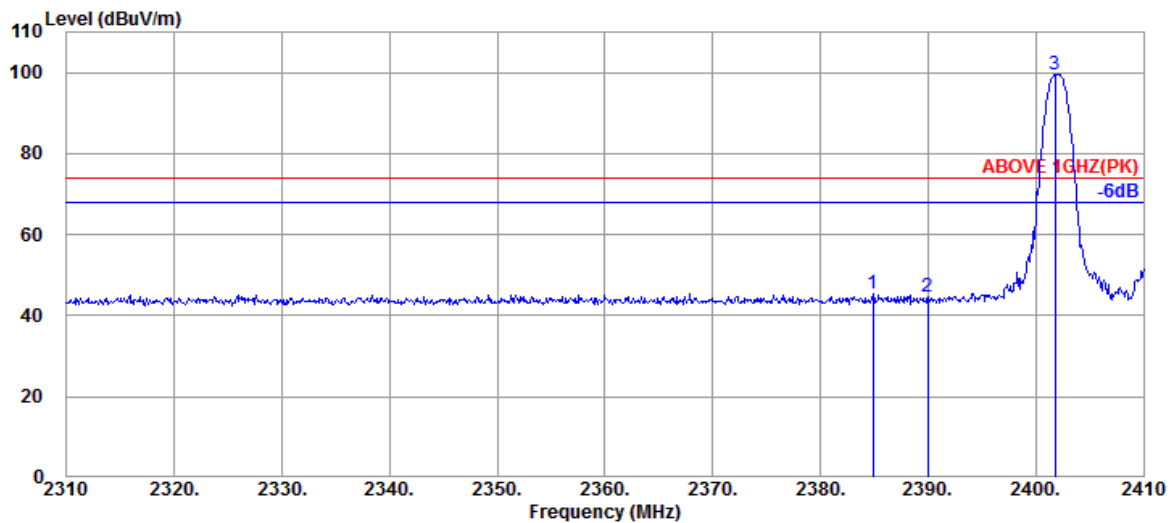
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
2388.000	28.40	8.52	-3.47	33.45	54.00	20.55	Average
2390.000	28.40	8.52	-4.06	32.86	54.00	21.14	Average
@ 2402.000	28.40	8.52	60.37	97.29	---	---	Average

Remark: The “@” means fundamental frequency, it is ignored in this section.

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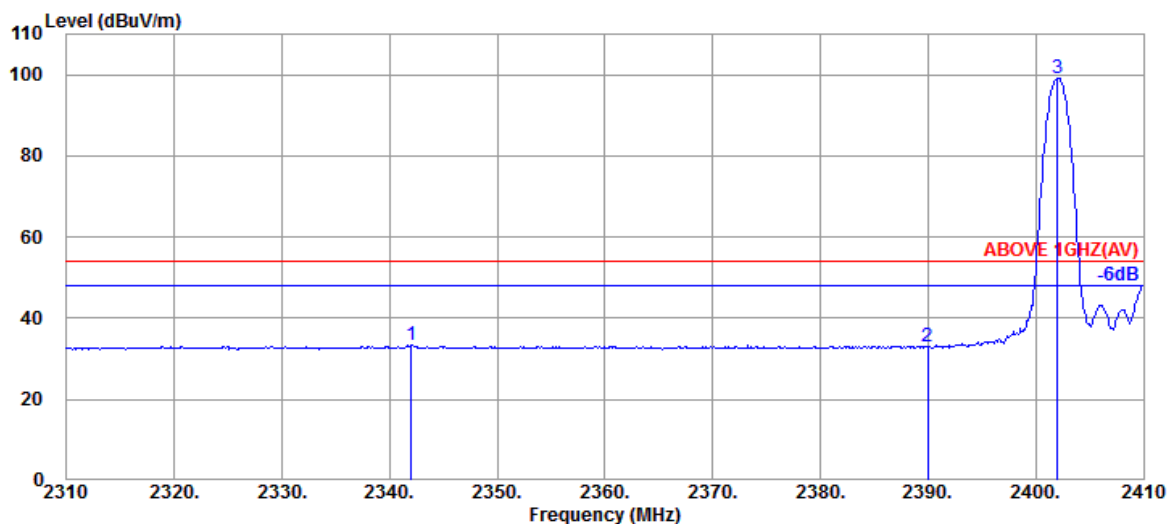
Tel: +886 2 26099301
Fax: +886 2 26099303

Mode	GFSK	Frequency	TX 2402MHz
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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
2384.900	28.27	8.51	8.64	45.42	74.00	28.58	Peak
2390.000	28.40	8.52	7.70	44.62	74.00	29.38	Peak
@ 2401.800	28.40	8.52	62.53	99.45	---	---	Peak



Antenna at Vertical Polarization

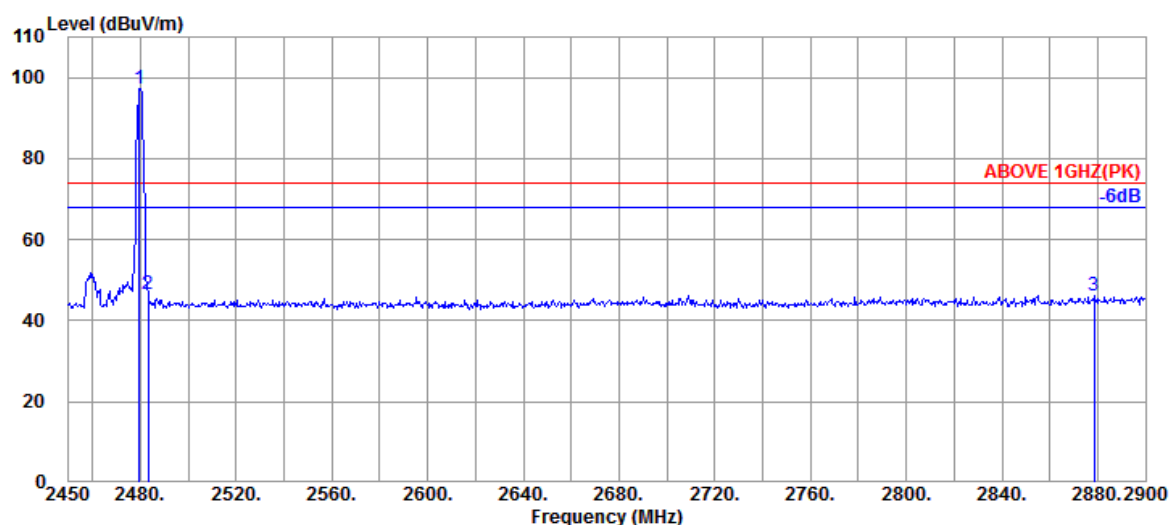
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2342.000	28.00	8.48	-2.99	33.49	54.00	20.51	Average
2390.000	28.40	8.52	-3.96	32.96	54.00	21.04	Average
@ 2402.000	28.40	8.52	62.36	99.28	---	---	Average

Remark: The “@” means fundamental frequency, it is ignored in this section.

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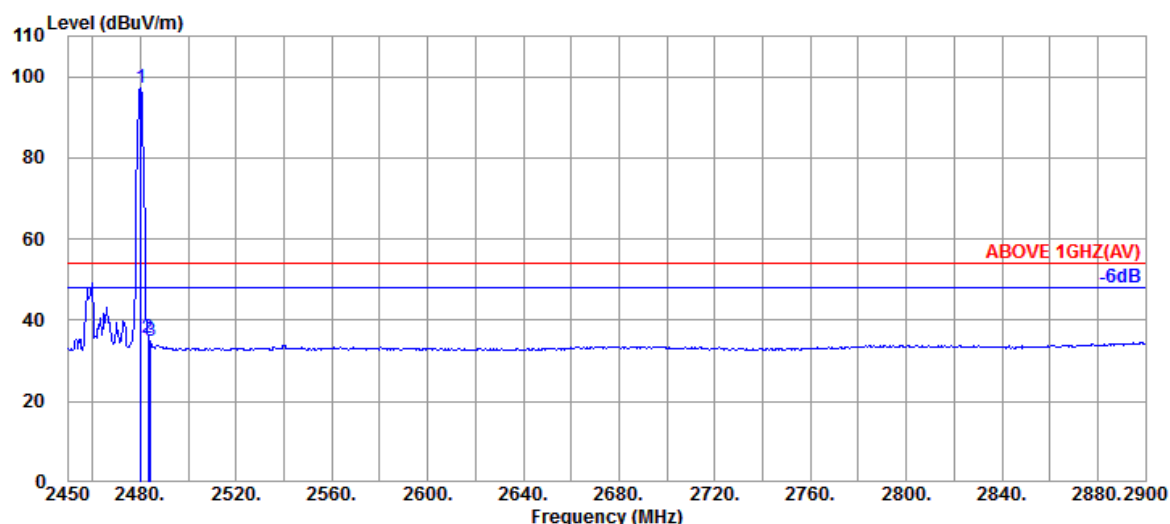
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Mode	GFSK	Frequency	TX 2480MHz
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Antenna at Horizontal Polarization

	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@	2479.700	28.70	8.58	59.78	97.06	---	---	Peak
	2483.300	28.70	8.58	9.35	46.63	74.00	27.37	Peak
	2878.400	29.27	8.68	8.33	46.28	74.00	27.72	Peak



Antenna at Horizontal Polarization

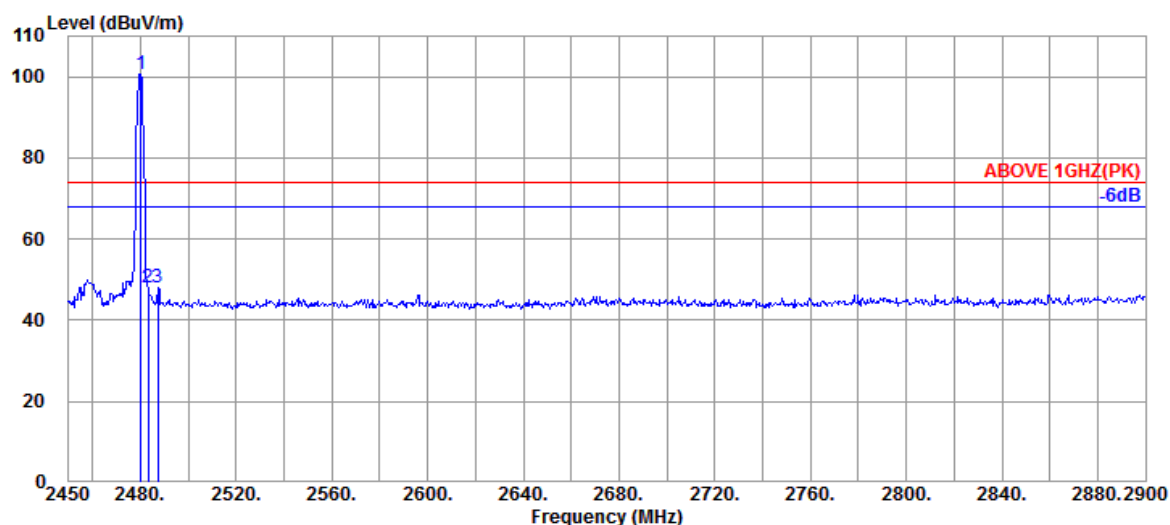
	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@	2480.150	28.70	8.58	59.87	97.15	---	---	Average
	2483.300	28.70	8.58	-1.48	35.80	54.00	18.20	Average
	2484.200	28.70	8.58	-2.53	34.75	54.00	19.25	Average

Remark: The “@” means fundamental frequency, it is ignored in this section.

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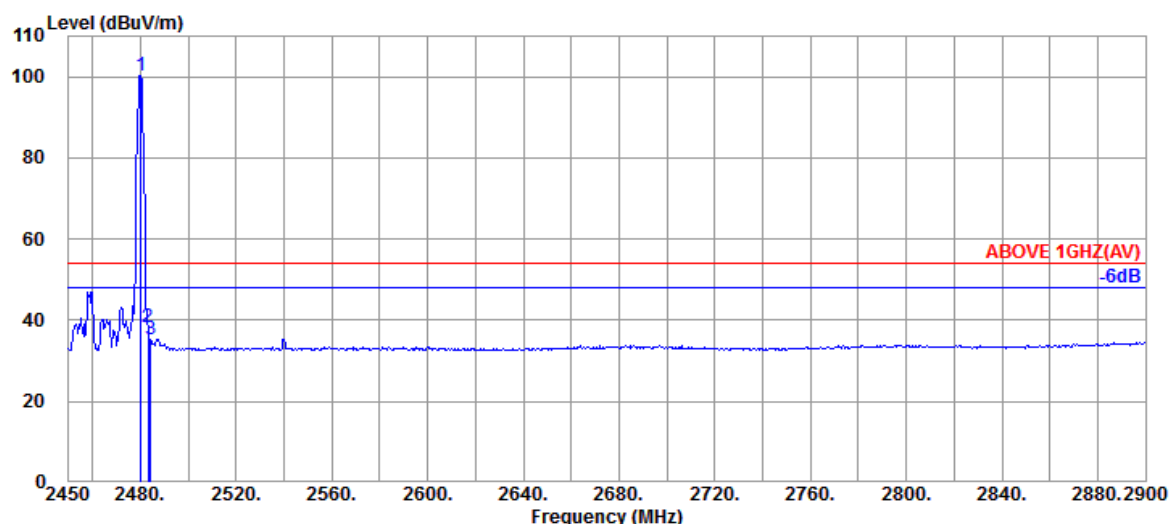
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Fax: +886 2 26099303

Mode	GFSK	Frequency	TX 2480MHz
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Antenna at Vertical Polarization

	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
@	2480.150	28.70	8.58	63.33	100.61	---	---	Peak
	2483.300	28.70	8.58	10.76	48.04	74.00	25.96	Peak
	2487.350	28.70	8.58	10.62	47.90	74.00	26.10	Peak



Antenna at Vertical Polarization

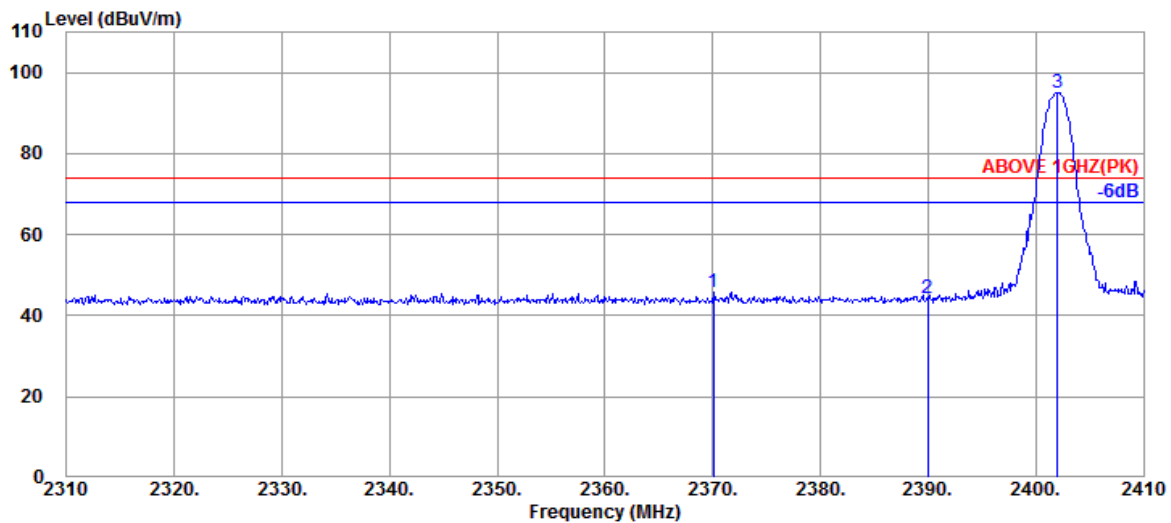
	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
@	2480.150	28.70	8.58	63.09	100.37	---	---	Average
	2483.300	28.70	8.58	0.90	38.18	54.00	15.82	Average
	2484.200	28.70	8.58	-1.89	35.39	54.00	18.61	Average

Remark: The “@” means fundamental frequency, it is ignored in this section.

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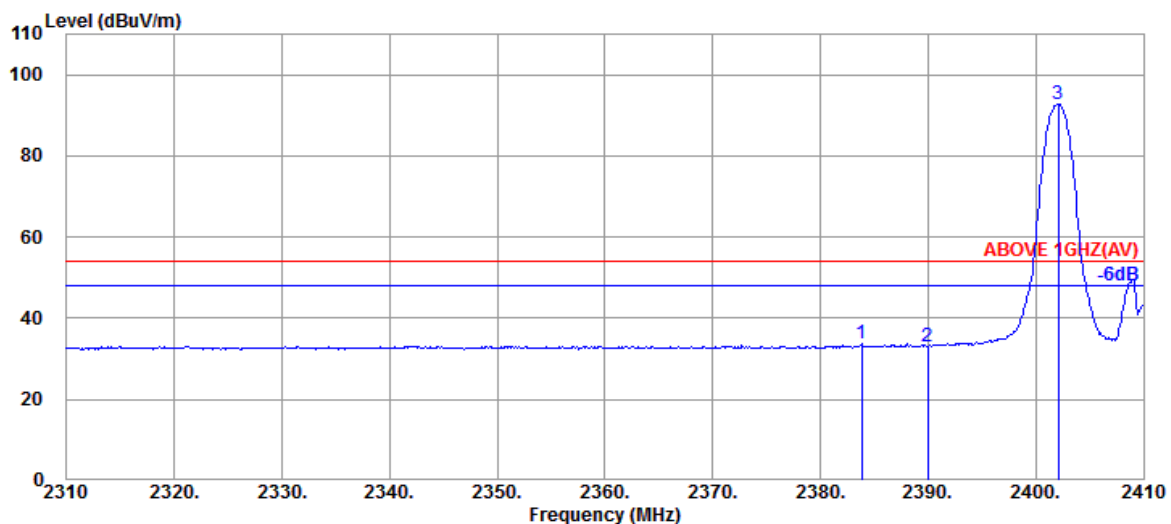
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Mode	8-DPSK	Frequency	TX 2402MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
2370.100	28.27	8.51	9.15	45.93	74.00	28.07	Peak
2390.000	28.40	8.52	7.27	44.19	74.00	29.81	Peak
@ 2402.000	28.40	8.52	58.23	95.15	---	---	Peak

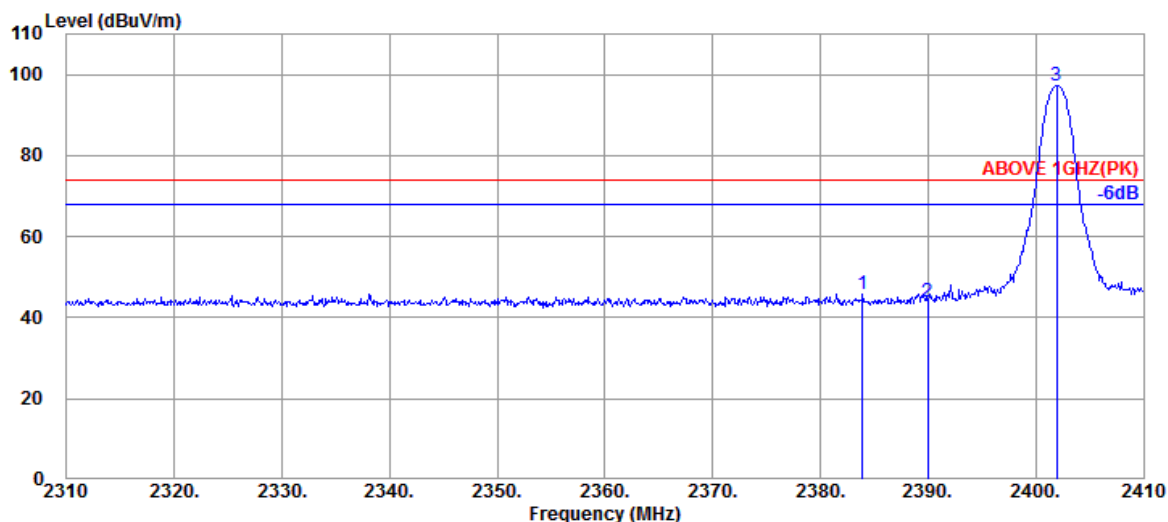


Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
2383.800	28.27	8.51	-3.04	33.74	54.00	20.26	Average
2390.000	28.40	8.52	-3.84	33.08	54.00	20.92	Average
@ 2402.100	28.40	8.52	55.88	92.80	---	---	Average

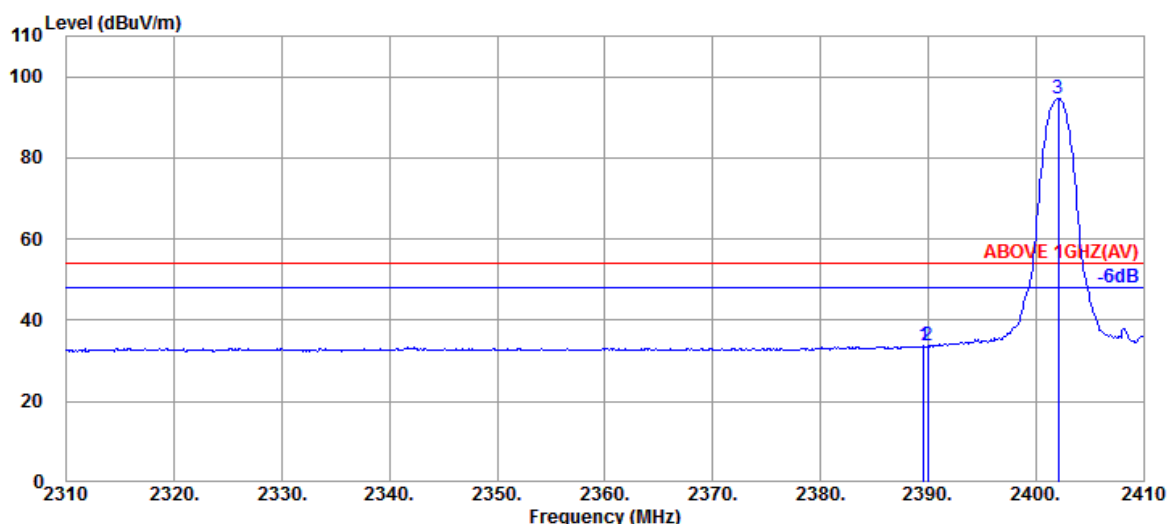
Remark: The “@” means fundamental frequency, it is ignored in this section.

Mode	8-DPSK	Frequency	TX 2402MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
2383.900	28.27	8.51	9.14	45.92	74.00	28.08	Peak
2390.000	28.40	8.52	7.18	44.10	74.00	29.90	Peak
@ 2401.900	28.40	8.52	60.49	97.41	---	---	Peak



Antenna at Vertical Polarization

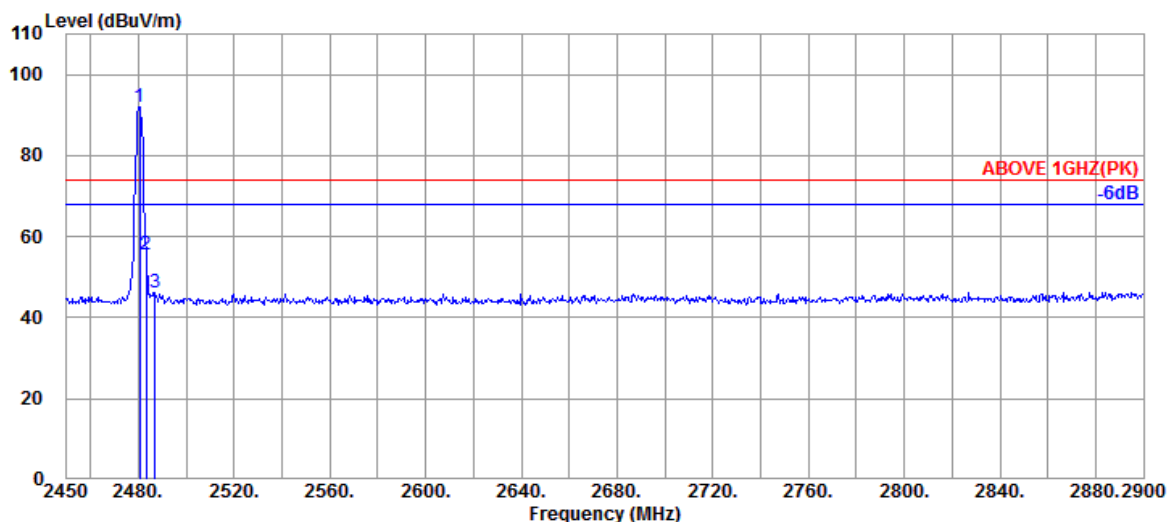
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
2389.600	28.40	8.52	-3.18	33.74	54.00	20.26	Average
2390.000	28.40	8.52	-3.17	33.75	54.00	20.25	Average
@ 2402.100	28.40	8.52	57.85	94.77	---	---	Average

Remark: The “@” means fundamental frequency, it is ignored in this section.

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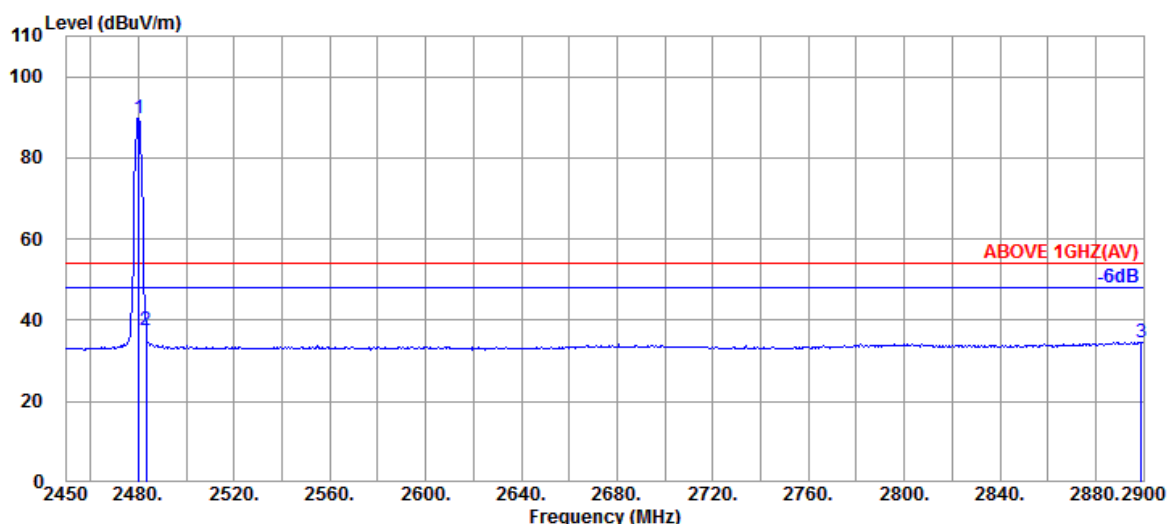
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Mode	8-DPSK	Frequency	TX 2480MHz
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Antenna at Horizontal Polarization

	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@	2480.600	28.68	8.58	54.80	92.06	---	---	Peak
	2483.300	28.70	8.58	18.21	55.49	74.00	18.51	Peak
	2486.900	28.72	8.58	9.01	46.31	74.00	27.69	Peak



Antenna at Horizontal Polarization

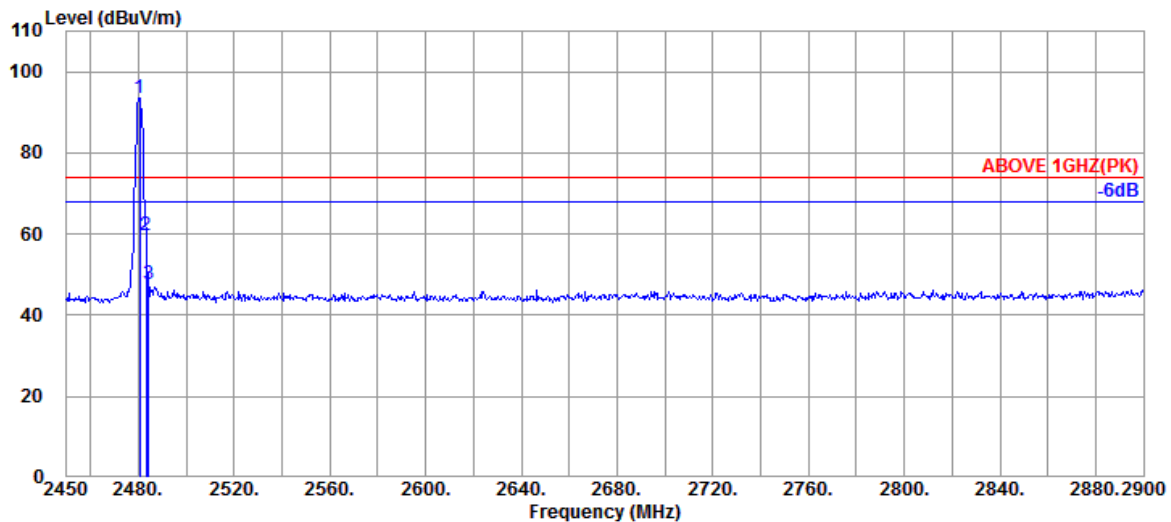
	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@	2480.150	28.68	8.58	52.62	89.88	---	---	Average
	2483.300	28.70	8.58	0.36	37.64	54.00	16.36	Average
	2899.100	29.59	8.69	-3.65	34.63	54.00	19.37	Average

Remark: The “@” means fundamental frequency, it is ignored in this section.

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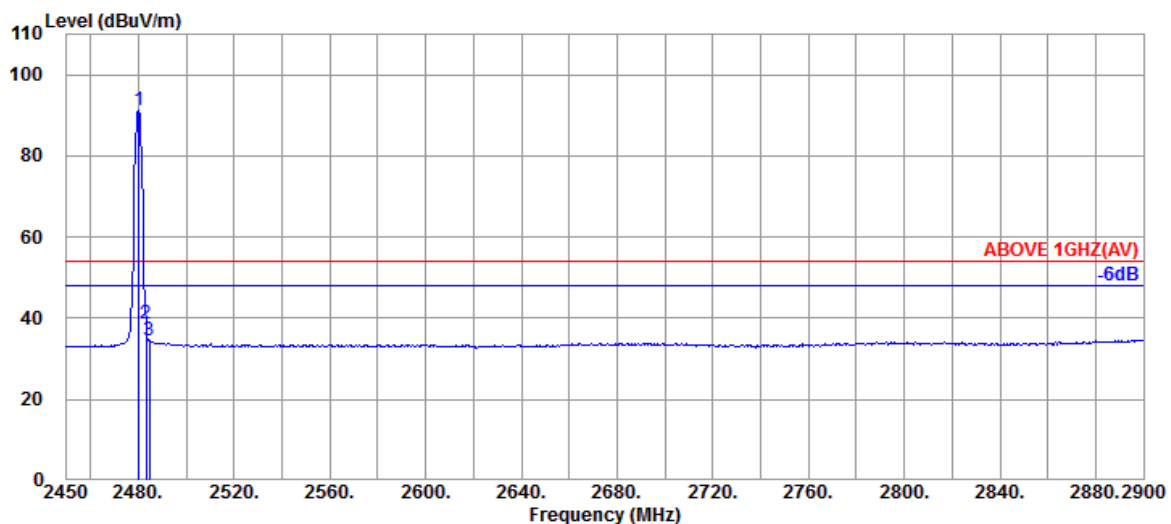
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Mode	8-DPSK	Frequency	TX 2480MHz
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Antenna at Vertical Polarization

	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@	2480.600	28.68	8.58	56.29	93.55	---	---	Peak
	2483.300	28.70	8.58	22.35	59.63	74.00	14.37	Peak
	2484.200	28.71	8.58	10.49	47.78	74.00	26.22	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
@	2480.150	28.68	8.58	53.96	91.22	---	---	Average
	2483.300	28.70	8.58	1.49	38.77	54.00	15.23	Average
	2484.650	28.71	8.58	-2.57	34.72	54.00	19.28	Average

Remark: The “@” means fundamental frequency, it is ignored in this section.

A.2.2 Emissions outside the frequency band:

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

Mode	GFSK	Frequency	TX 2402MHz
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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
4804.000	33.30	10.22	-2.50	41.02	54.00	12.98	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
4804.000	33.30	10.22	-1.57	41.95	54.00	12.05	Peak

Mode	GFSK	Frequency	TX 2441MHz
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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
4882.000	33.53	10.24	-2.95	40.82	54.00	13.18	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
4882.000	33.53	10.24	-2.23	41.54	54.00	12.46	Peak

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Mode	GFSK	Frequency	TX 2480MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector
4960.000	33.73	10.27	-2.70	41.30	54.00	12.70	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector
4960.000	33.73	10.27	-2.94	41.06	54.00	12.94	Peak

A.2.3 Emissions in Non-restricted Frequency Bands:

All emission levels below the FCC 15.209(a)/RSS-Gen Section 8.9 table 4 general radiated emissions limits is not required.

A.3 20dB BANDWIDTH

Test Date	2019/09/18	Temp./Hum.	25°C/51%
Cable Loss	0.50dB	Tested By	Martin Chen
Test Voltage	AC 120V 60Hz (Via AC Adapter)		

A.3.1 6dB Bandwidth Result

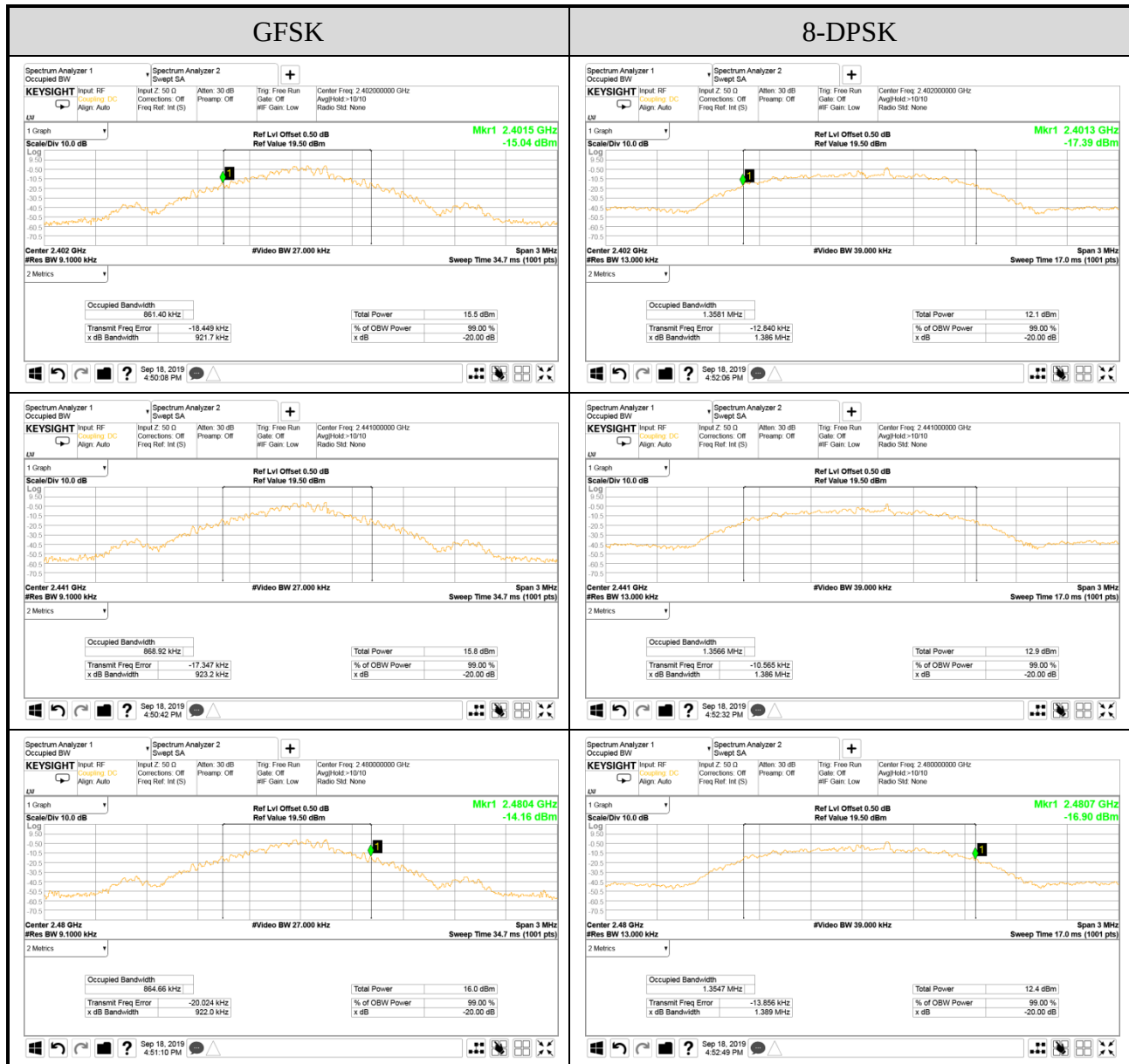
Mode	Centre Frequency (MHz)	20dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz) (Reference only)	2/3 (20dB Bandwidth)
GFSK	2402	0.9217	0.86410	0.614
	2441	0.9232	0.86892	0.615
	2480	0.9220	0.86466	0.615
8-DPSK	2402	1.386	1.3581	0.924
	2441	1.386	1.3566	0.924
	2480	1.389	1.3547	0.926

Remark: The maximum two-thirds of the 20dB bandwidth is the limit for carrier frequency separation presented.

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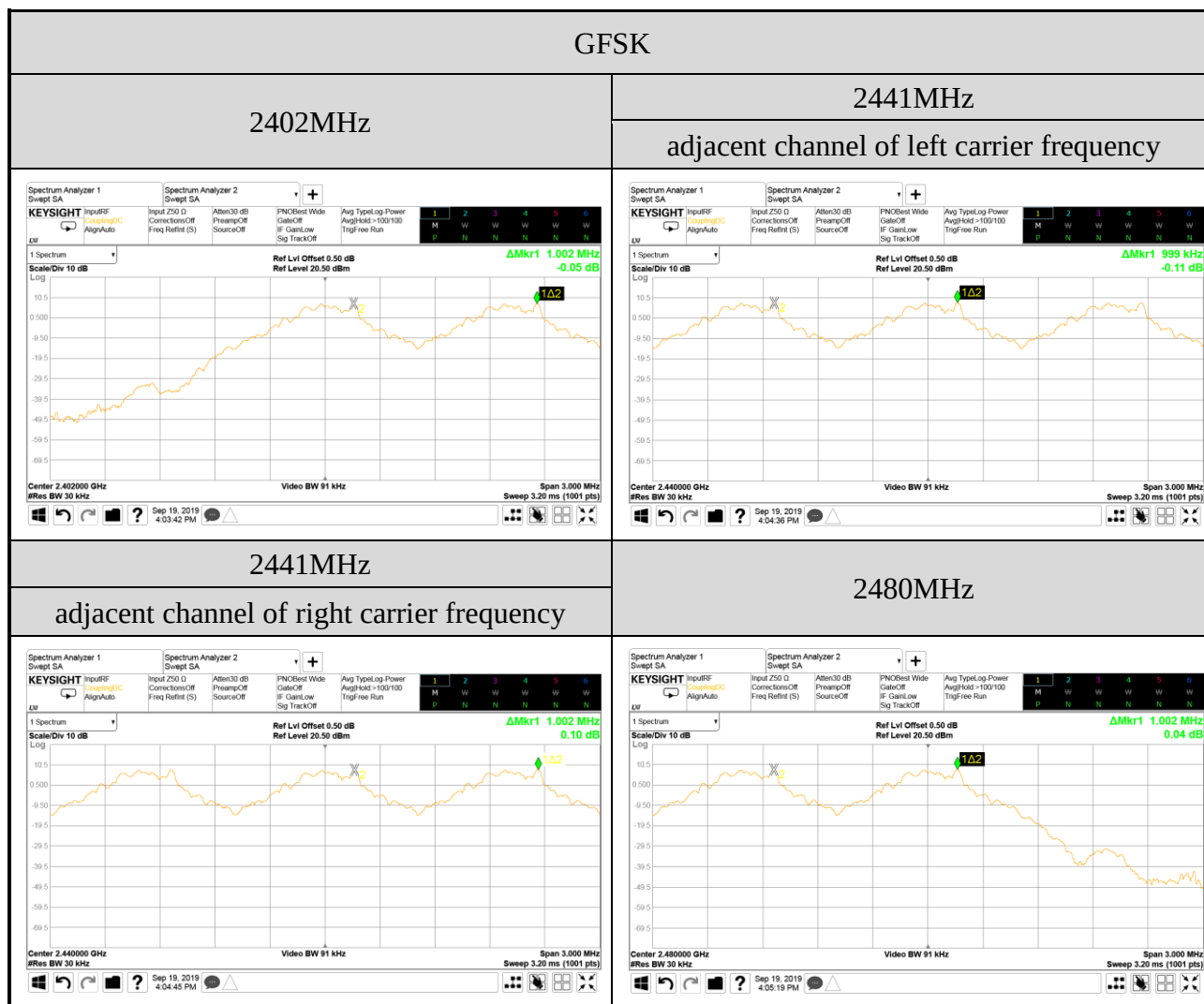
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A.3.2 Measurement Plots



A.4 CARRIER FREQUENCY SEPARATION

Test Date	2019/09/19	Temp./Hum.	25°C/54%
Cable Loss	0.50dB	Tested By	Martin Chen
Test Voltage	AC 120V 60Hz (Via AC Adapter)		

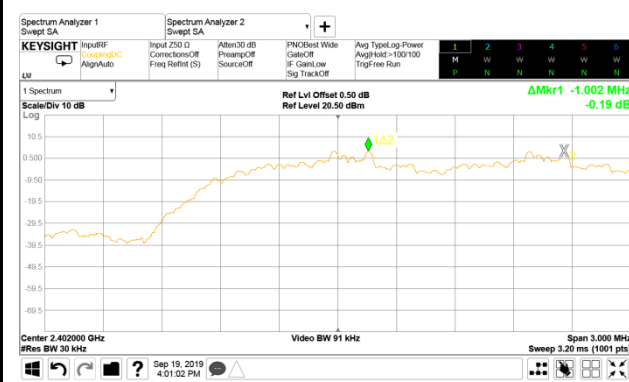


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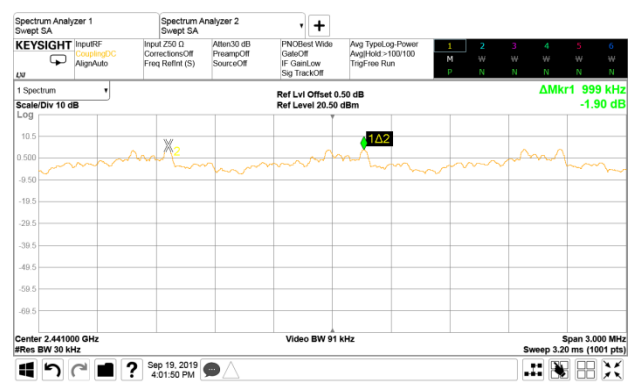
8-DPSK

2402MHz



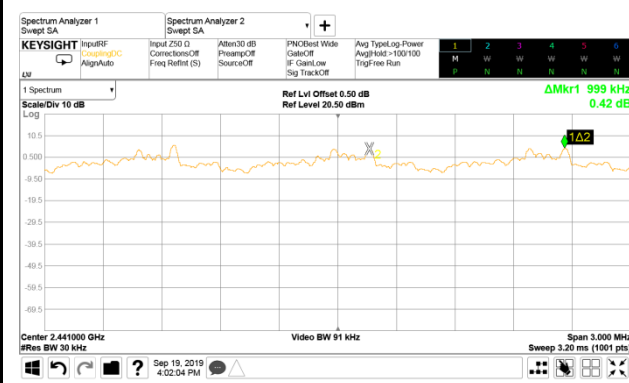
2441MHz

adjacent channel of left carrier frequency

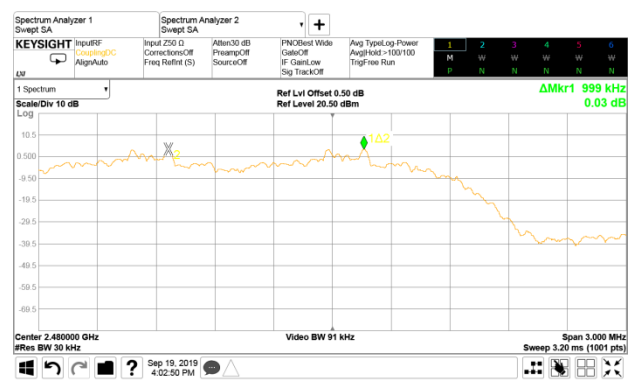


2441MHz

adjacent channel of right carrier frequency



2480MHz



A.5 TIME OF OCCUPANCY

Test Date	2019/09/19	Temp./Hum.	25°C/54%
Cable Loss	0.50dB	Tested By	Martin Chen
Test Voltage	AC 120V 60Hz (Via AC Adapter)		

A.5.1 Time of Occupancy

Mode	Centre Frequency (MHz)	Mode	Each second appearance transmission	Time of Occupancy (ms)	Maximum accumulated Time of Occupancy (ms)	Limit (ms)
GFSK	2402	DH1	10	0.380	120.080	<400
		DH3	5	1.635	258.330	<400
		DH5	3	2.880	273.024	<400

Observation Period:

79 channels* **0.4** seconds= **31.6** seconds

DH1 Mode

For each second of **10** transmission appearance, the longest time of occupancy is

10 transmission* **31.6** seconds* **0.380** ms= **120.080** ms (<400ms)

DH3 Mode

For each second of **5** transmission appearance, the longest time of occupancy is

5 transmission* **31.6** seconds* **1.635** ms= **258.330** ms (<400ms)

DH5 Mode

For each second of **3** transmission appearance, the longest time of occupancy is

3 transmission* **31.6** seconds* **2.880** ms= **273.024** ms (<400ms)

Mode	Centre Frequency (MHz)	Mode	Each second appearance transmission	Time of Occupancy (ms)	Maximum accumulated Time of Occupancy (ms)	Limit (ms)
GFSK	2440	DH1	10	0.380	120.080	<400
		DH3	5	1.635	258.330	<400
		DH5	3	2.880	273.024	<400

Observation Period:

79 channels* **0.4** seconds= **31.6** seconds

DH1 Mode

For each second of **10** transmission appearance, the longest time of occupancy is

10 transmission* **31.6** seconds* **0.380** ms= **120.080** ms (<400ms)

DH3 Mode

For each second of **5** transmission appearance, the longest time of occupancy is

5 transmission* **31.6** seconds* **1.635** ms= **258.330** ms (<400ms)

DH5 Mode

For each second of **3** transmission appearance, the longest time of occupancy is

3 transmission* **31.6** seconds* **2.880** ms= **273.024** ms (<400ms)

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Mode	Centre Frequency (MHz)	Mode	Each second appearance transmission	Time of Occupancy (ms)	Maximum accumulated Time of Occupancy (ms)	Limit (ms)
GFSK	2480	DH1	10	0.380	120.080	<400
		DH3	5	1.635	258.330	<400
		DH5	3	2.880	273.024	<400

Observation Period:

79 channels* 0.4 seconds= 31.6 seconds

DH1 Mode

For each second of 10 transmission appearance, the longest time of occupancy is
10 transmission* 31.6 seconds* 0.380 ms= 120.080 ms (<400ms)

DH3 Mode

For each second of 5 transmission appearance, the longest time of occupancy is
5 transmission* 31.6 seconds* 1.635 ms= 258.330 ms (<400ms)

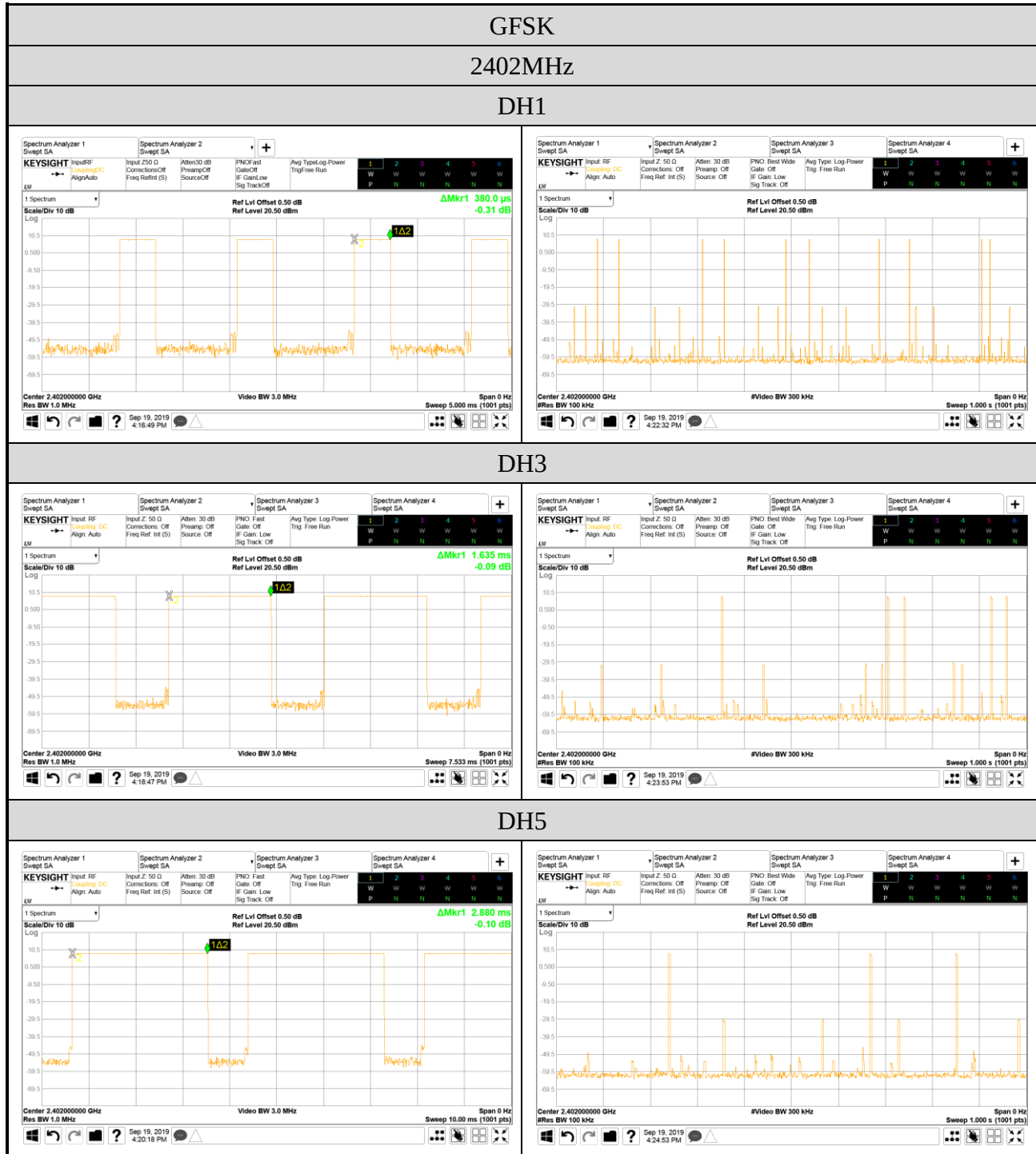
DH5 Mode

For each second of 3 transmission appearance, the longest time of occupancy is
3 transmission* 31.6 seconds* 2.880 ms= 273.024 ms (<400ms)

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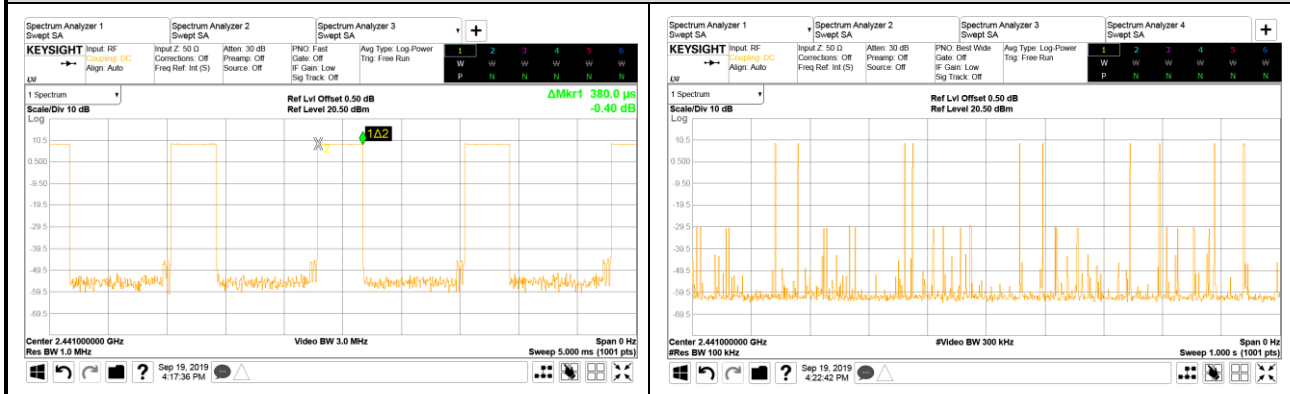
● Measurement Plots



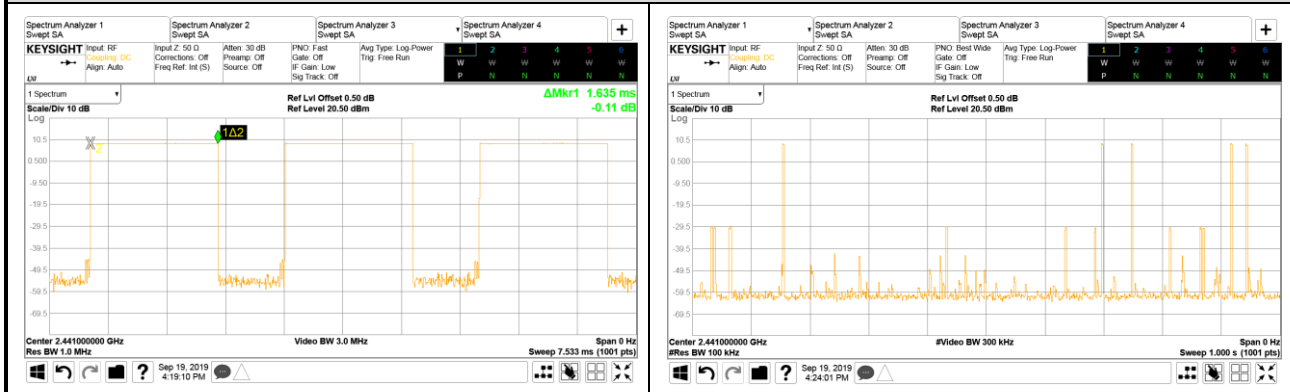
GFSK

2441MHz

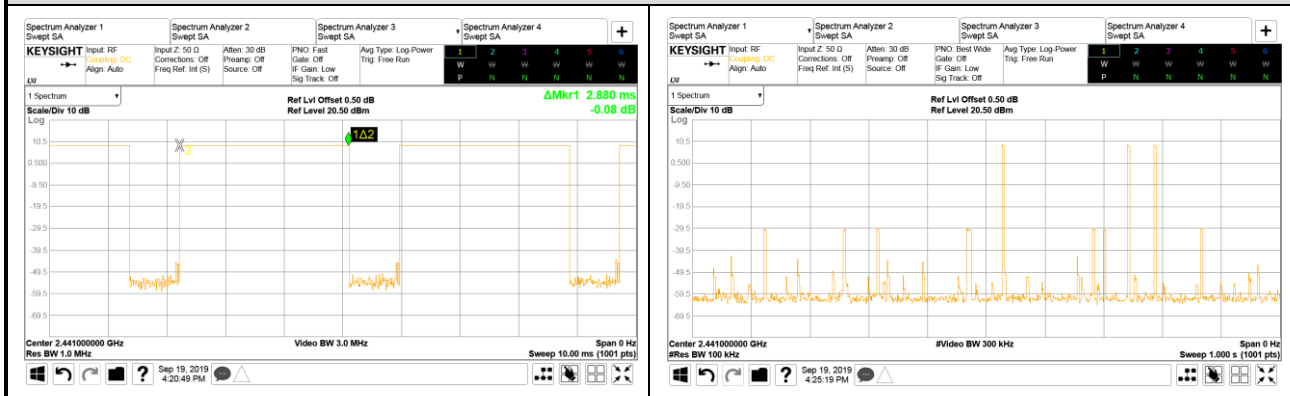
DH1



DH3



DH5



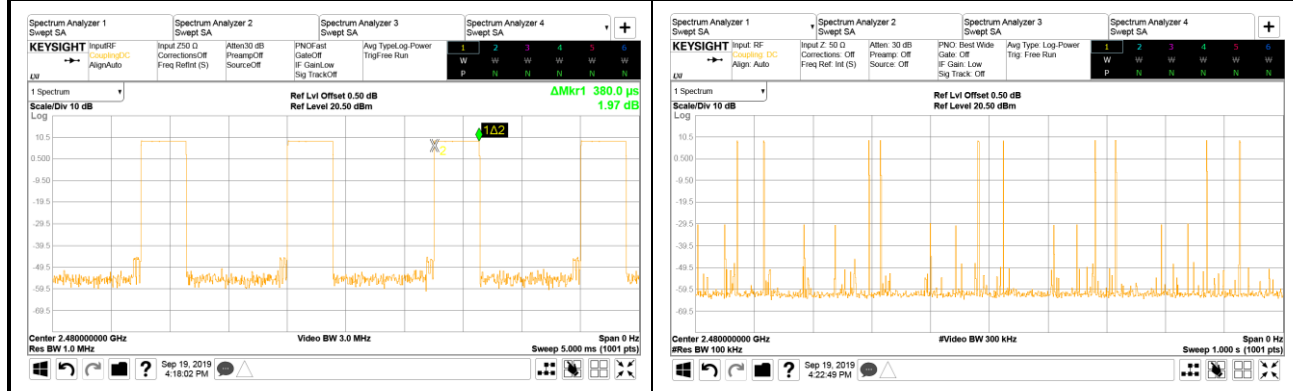
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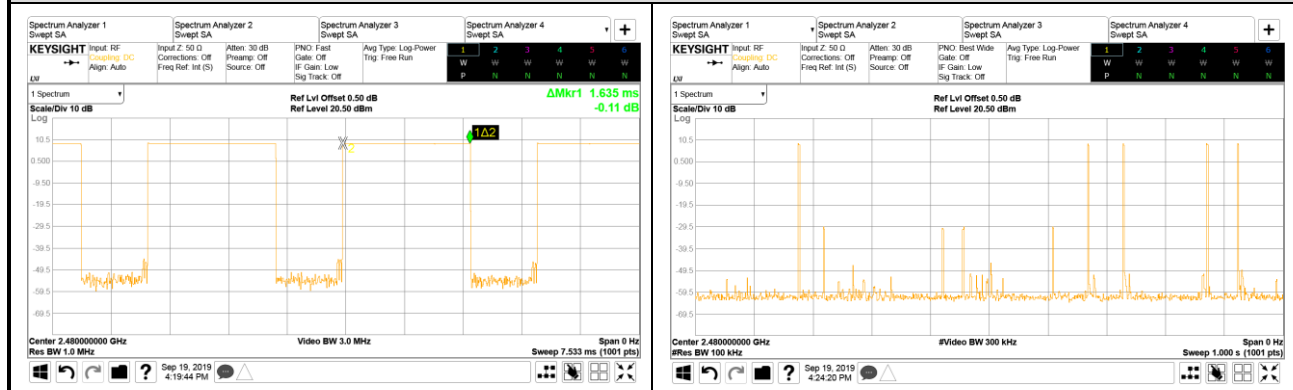
GFSK

2480MHz

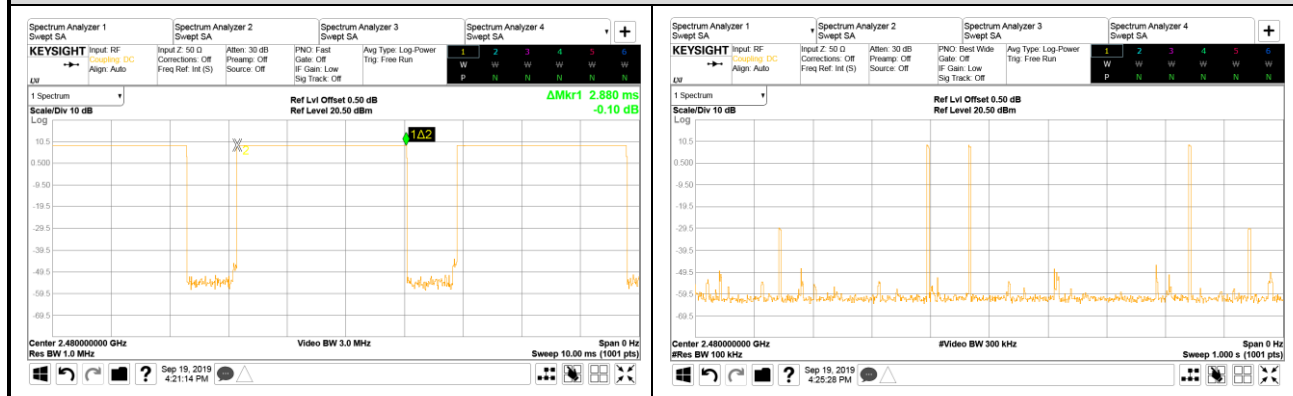
DH1



DH3



DH5



Mode	Centre Frequency (MHz)	Mode	Each second appearance transmission	Time of Occupancy (ms)	Maximum accumulated Time of Occupancy (ms)	Limit (ms)
8-DPSK	2402	3DH1	10	0.390	123.240	<400
		3DH3	5	1.635	258.330	<400
		3DH5	3	2.890	273.972	<400

Observation Period:

79 channels* 0.4 seconds= 31.6 seconds

3DH1 Mode

For each second of 10 transmission appearance, the longest time of occupancy is

10 transmission* 31.6 seconds* 0.390 ms= 123.240 ms (<400ms)

3DH3 Mode

For each second of 5 transmission appearance, the longest time of occupancy is

5 transmission* 31.6 seconds* 1.635 ms= 258.330 ms (<400ms)

3DH5 Mode

For each second of 3 transmission appearance, the longest time of occupancy is

3 transmission* 31.6 seconds* 2.890 ms= 273.972 ms (<400ms)

Mode	Centre Frequency (MHz)	Mode	Each second appearance transmission	Time of Occupancy (ms)	Maximum accumulated Time of Occupancy (ms)	Limit (ms)
8-DPSK	2441	3DH1	10	0.390	123.240	<400
		3DH3	5	1.635	258.330	<400
		3DH5	3	2.890	273.972	<400

Observation Period:

79 channels* 0.4 seconds= 31.6 seconds

3DH1 Mode

For each second of 10 transmission appearance, the longest time of occupancy is

10 transmission* 31.6 seconds* 0.390 ms= 123.240 ms (<400ms)

3DH3 Mode

For each second of 5 transmission appearance, the longest time of occupancy is

5 transmission* 31.6 seconds* 1.635 ms= 258.330 ms (<400ms)

3DH5 Mode

For each second of 3 transmission appearance, the longest time of occupancy is

3 transmission* 31.6 seconds* 2.890 ms= 273.972 ms (<400ms)

Mode	Centre Frequency (MHz)	Mode	Each second appearance transmission	Time of Occupancy (ms)	Maximum accumulated Time of Occupancy (ms)	Limit (ms)
8-DPSK	2480	3DH1	10	0.390	123.240	<400
		3DH3	5	1.635	258.330	<400
		3DH5	3	2.890	273.972	<400

Observation Period:

79 channels* **0.4** seconds= **31.6** seconds

3DH1 Mode

For each second of **10** transmission appearance, the longest time of occupancy is
10 transmission* **31.6** seconds* **0.390** ms= **123.240** ms (<400ms)

3DH3 Mode

For each second of **5** transmission appearance, the longest time of occupancy is
5 transmission* **31.6** seconds* **1.635** ms= **258.330** ms (<400ms)

3DH5 Mode

For each second of **3** transmission appearance, the longest time of occupancy is
3 transmission* **31.6** seconds* **2.890** ms= **273.972** ms (<400ms)

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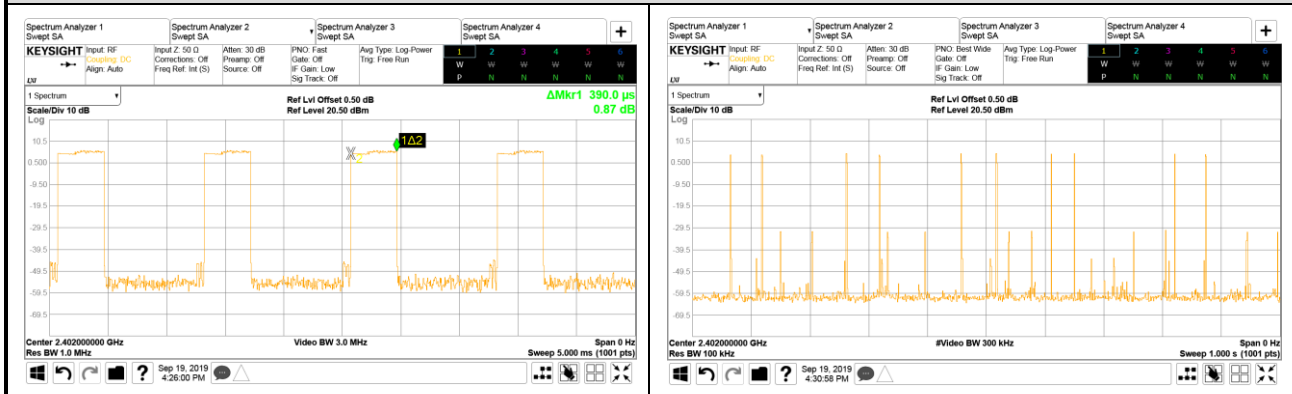
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● Measurement Plots

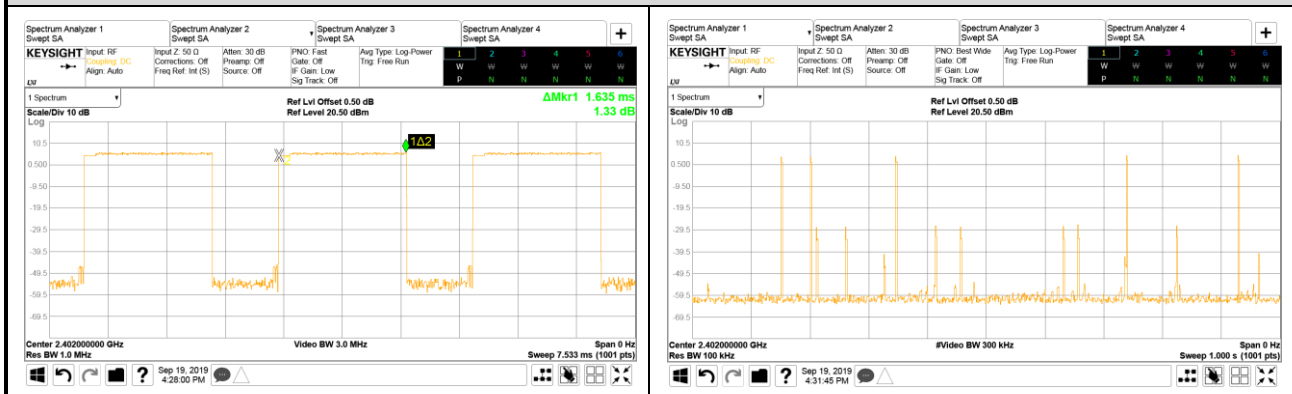
8-DPSK

2402MHz

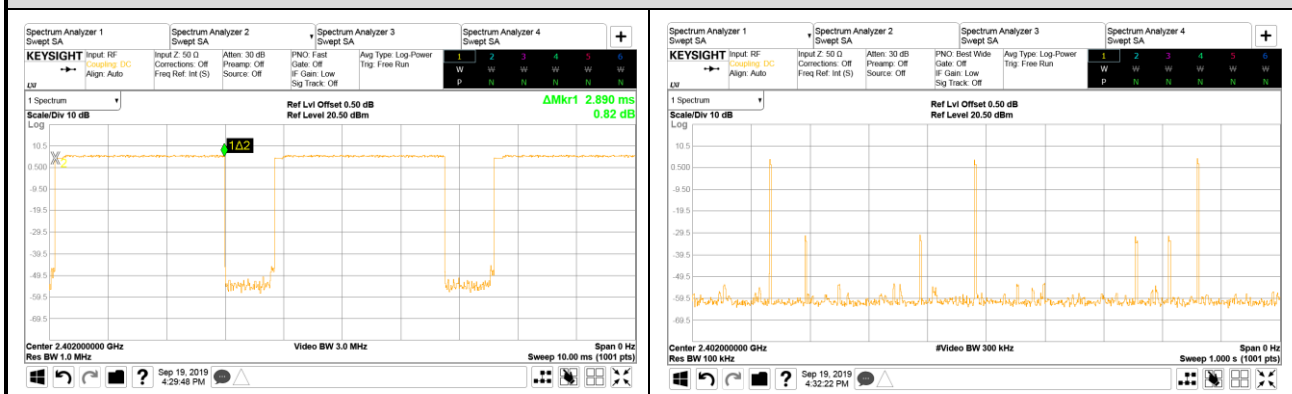
3DH1



3DH3



3DH5



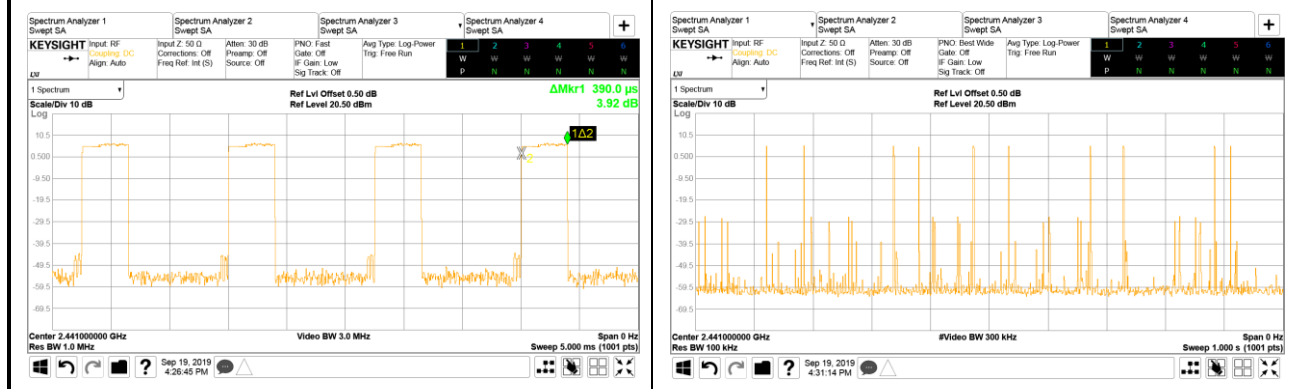
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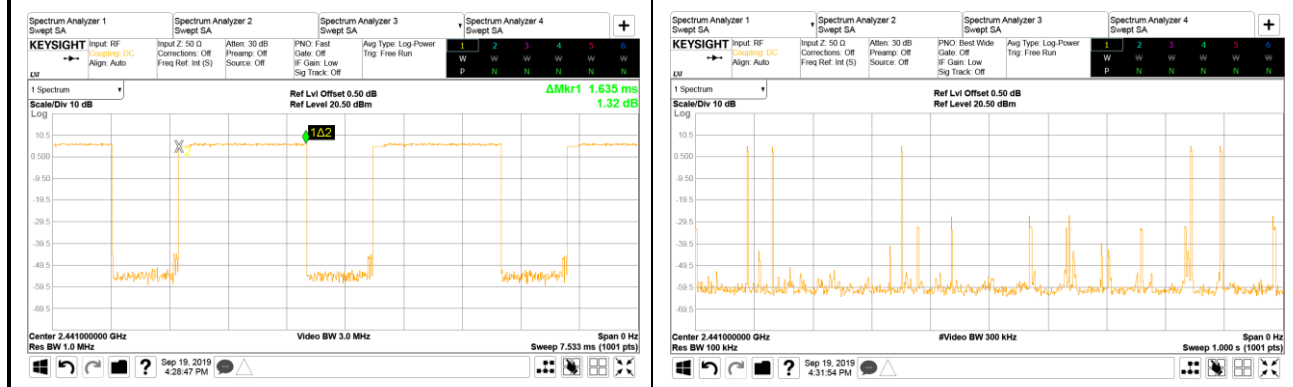
8-DPSK

2441MHz

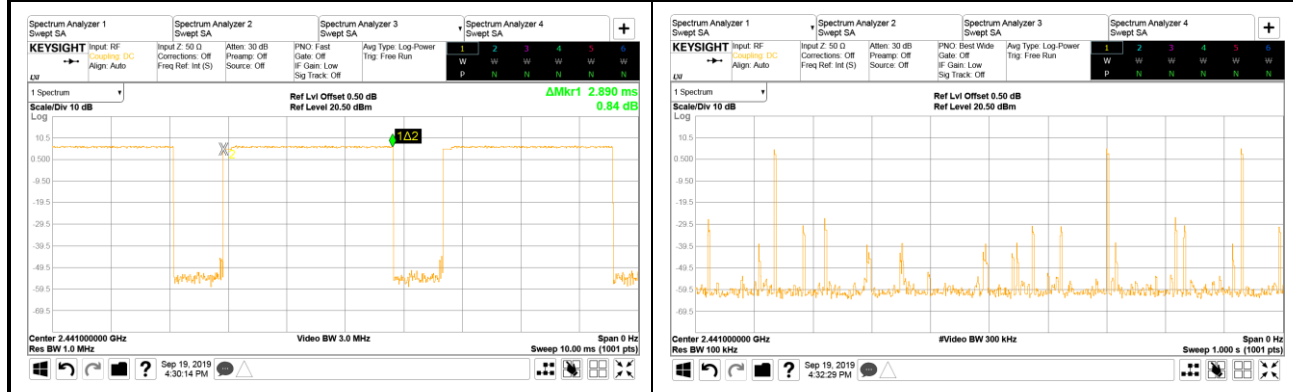
3DH1



3DH3



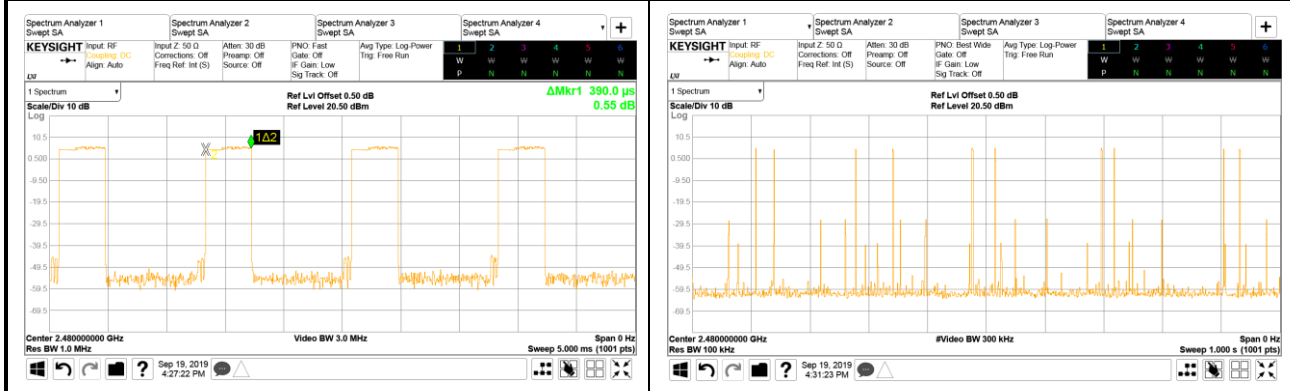
3DH5



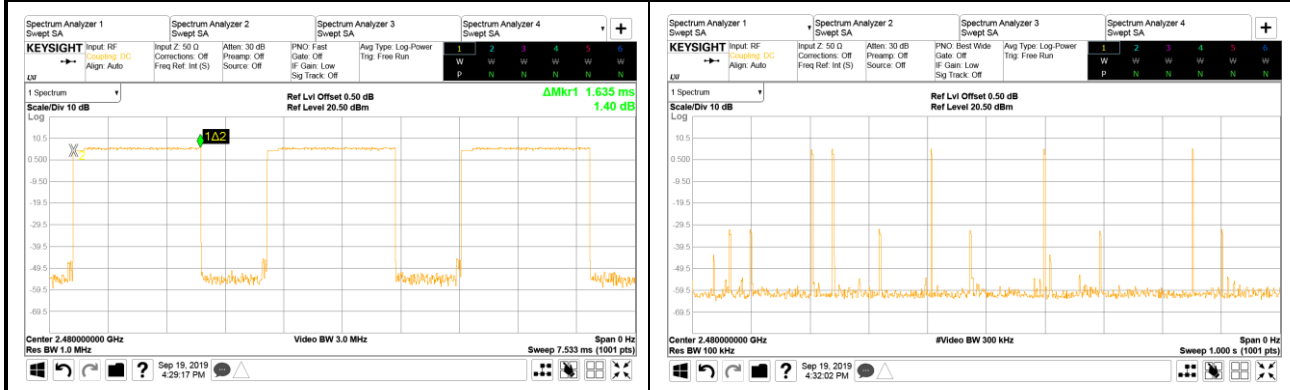
8-DPSK

2480MHz

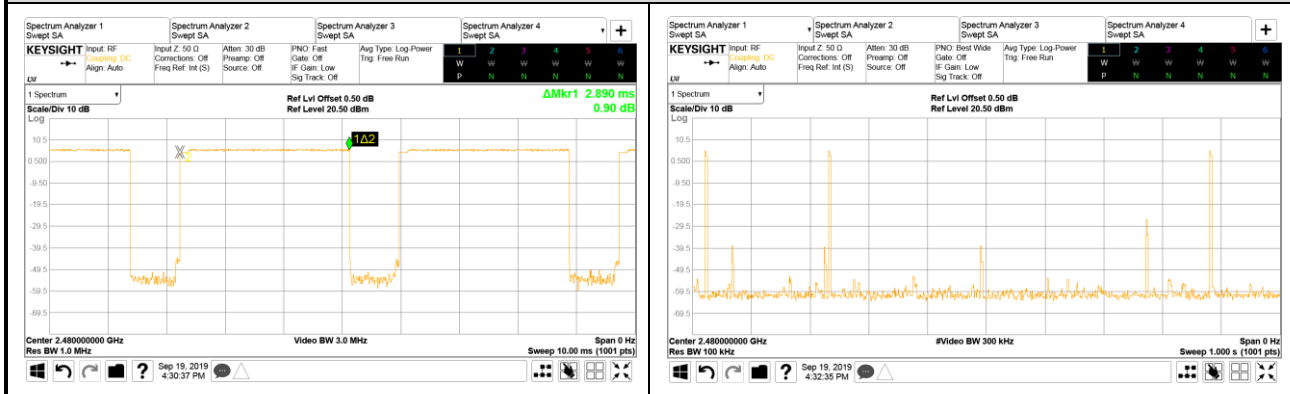
3DH1



3DH3



3DH5

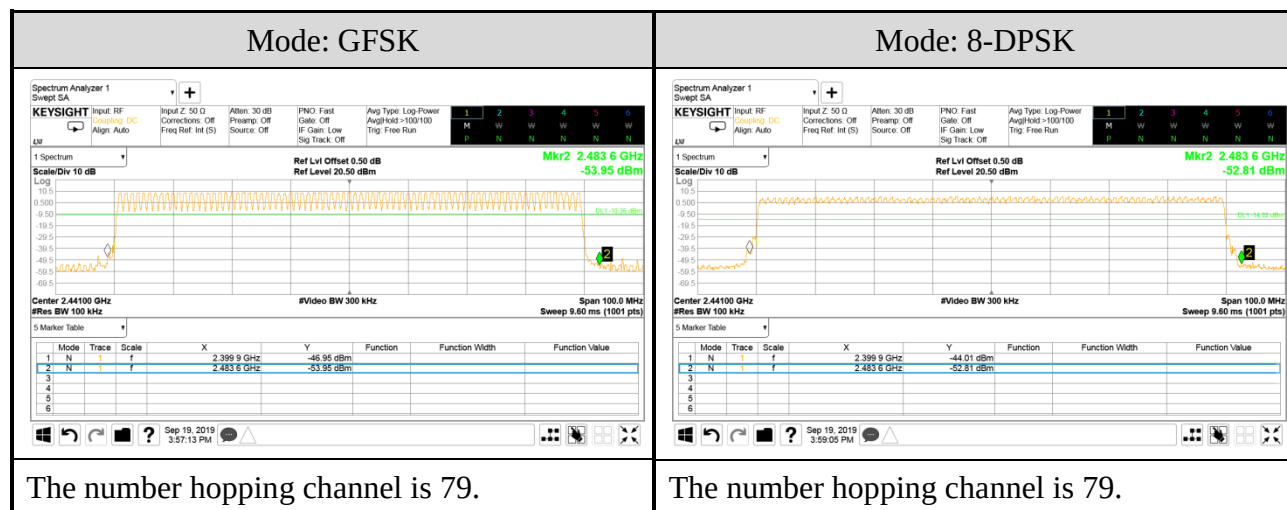


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A.6 NUMBER OF HOPPING CHANNELS

Test Date	2019/09/19	Temp./Hum.	25°C/54%
Cable Loss	0.50dB	Tested By	Martin Chen
Test Voltage	AC 120V 60Hz (Via AC Adapter)		



A.7 MAXIMUM PEAK OUTPUT POWER

Test Date	2019/09/18, 03/11	Temp./Hum.	25°C/51%, 21°C/51%
Cable Loss	0.50dB	Tested By	Martin Chen
Test Voltage	AC 120V 60Hz (Via AC Adapter)		

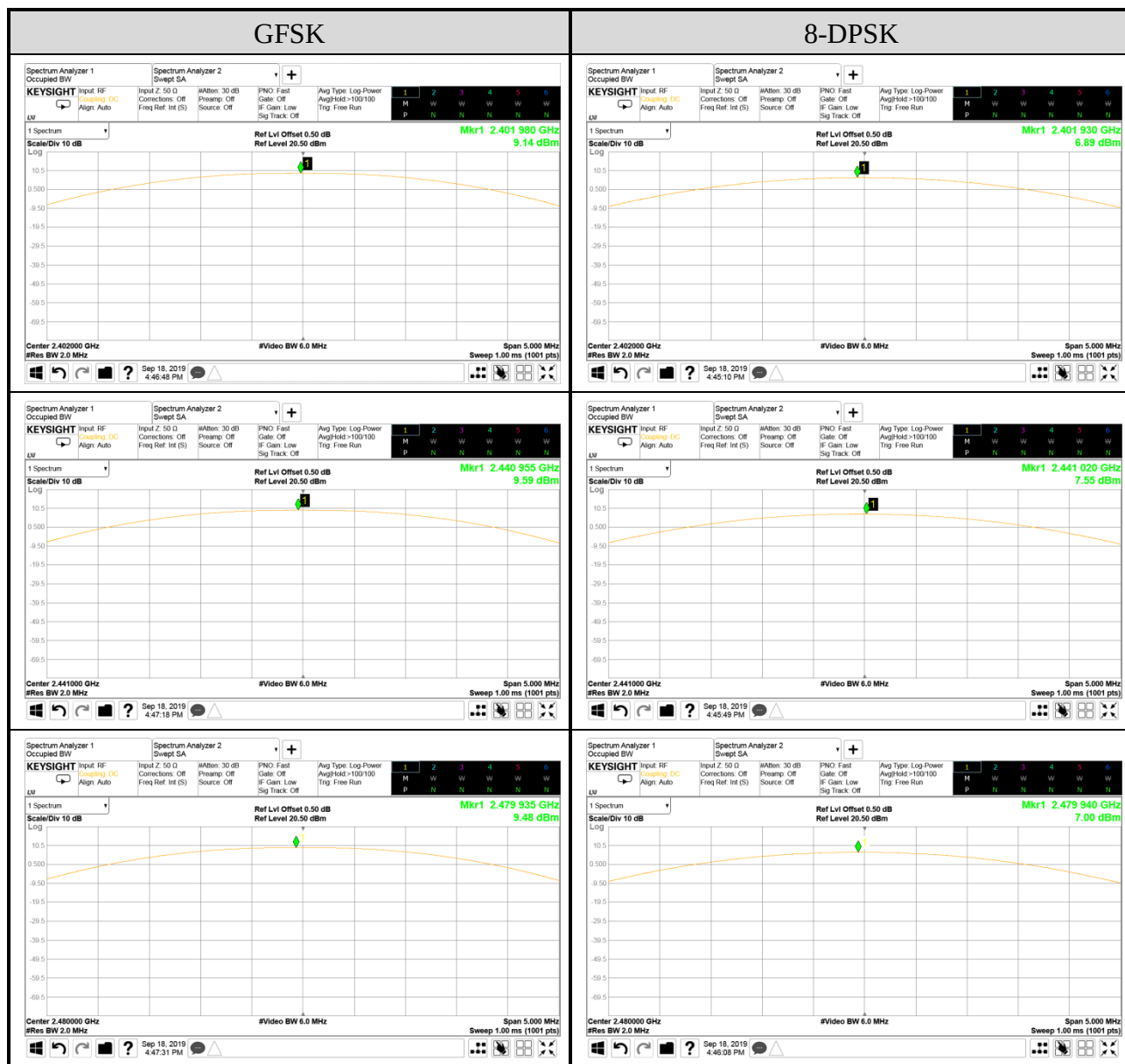
A.7.1 Maximum Peak Output Power

Mode	Centre Frequency (MHz)	Maximum Peak Output Power		Limit
		dBm	W	
GFSK	2402	9.14	0.008	21dBm (0.125W)
	2441	9.59	0.009	
	2480	9.48	0.009	
8-DPSK	2402	6.89	0.005	
	2441	7.55	0.006	
	2480	7.00	0.005	

SPOT CHECK

Mode	Centre Frequency (MHz)	Maximum Peak Output Power		Limit
		dBm	W	
GFSK	2402	9.11	0.008	21dBm (0.125W)
	2441	9.57	0.009	
	2480	9.42	0.009	
8-DPSK	2402	6.84	0.005	
	2441	7.56	0.006	
	2480	7.08	0.005	

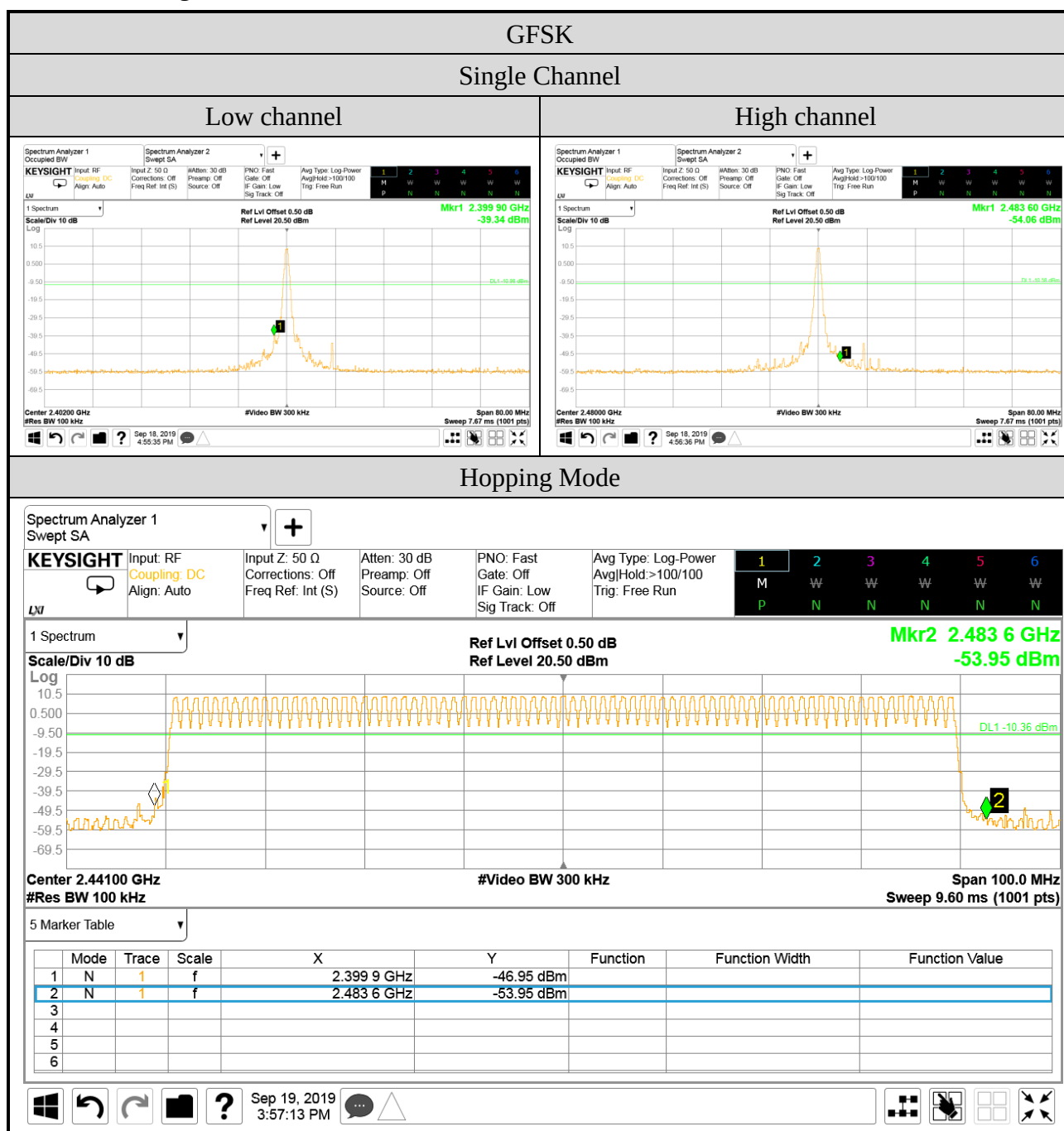
A.7.2 Measurement Plots



A.8 EMISSION LIMITATIONS MEASUREMENT

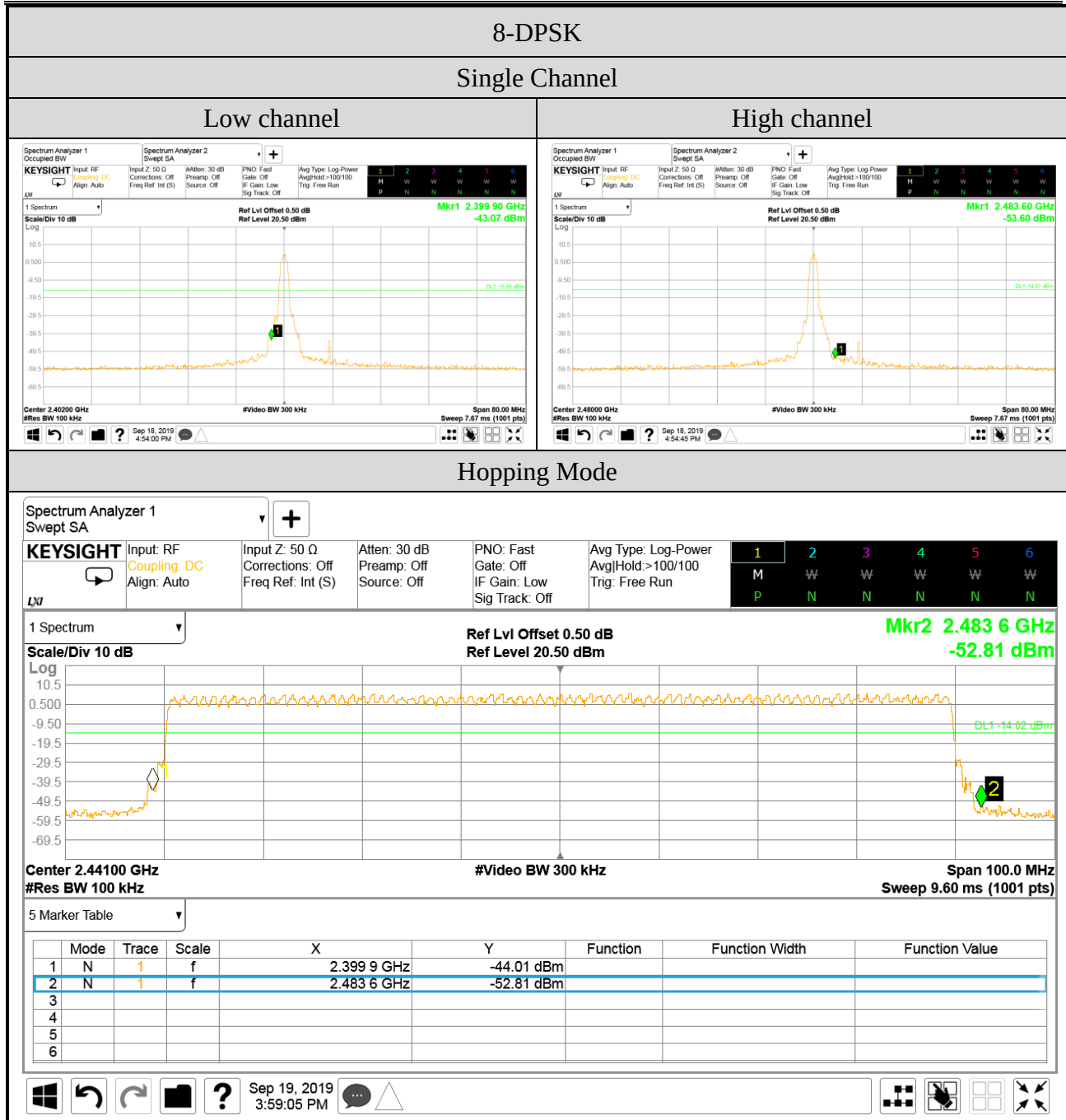
Test Date	2019/09/18 ~ 19	Temp./Hum.	25°C/51 ~ 54%
Cable Loss	0.50dB	Tested By	Martin Chen
Test Voltage	AC 120V 60Hz (Via AC Adapter)		

A.8.1 Band Edge

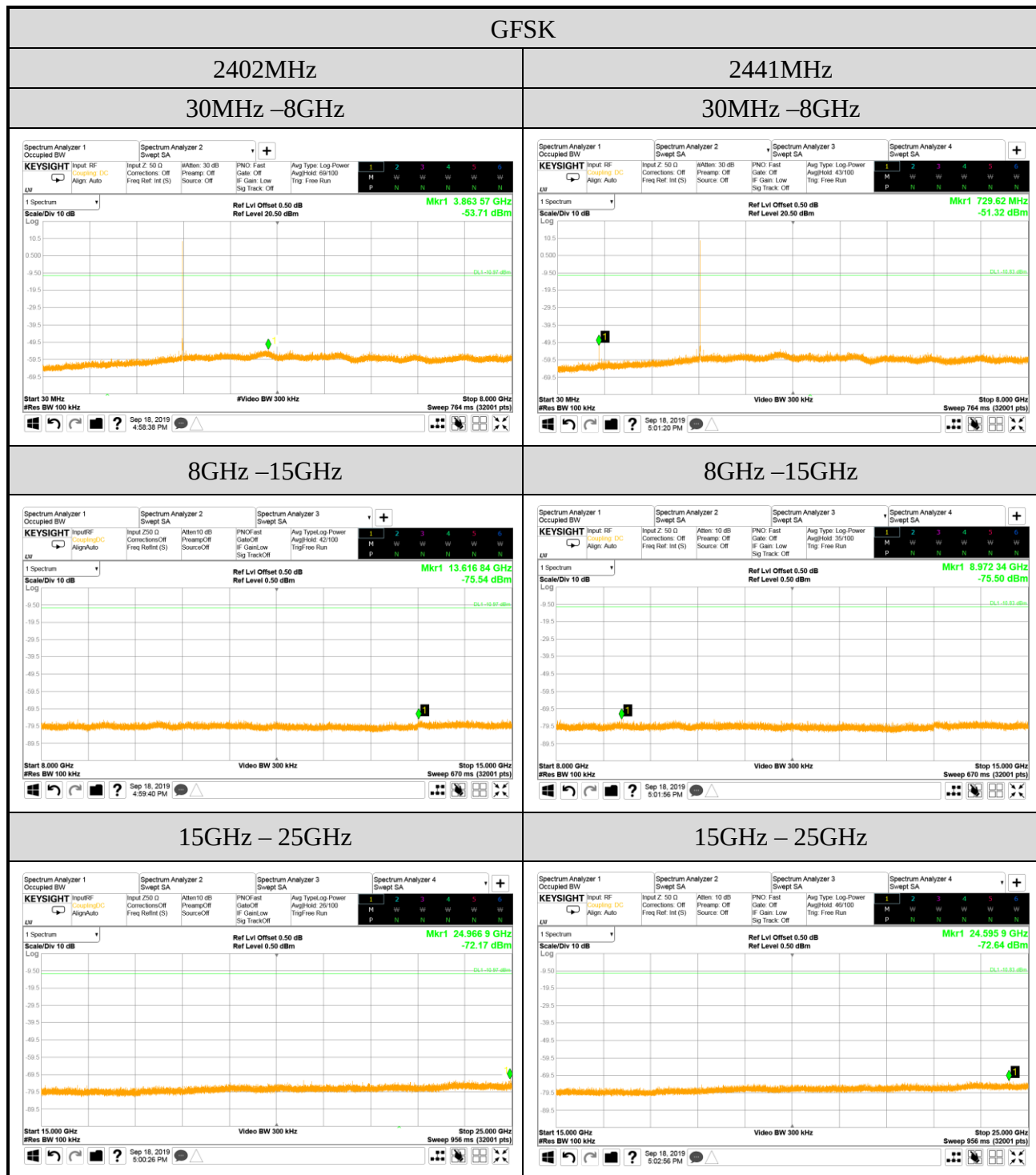


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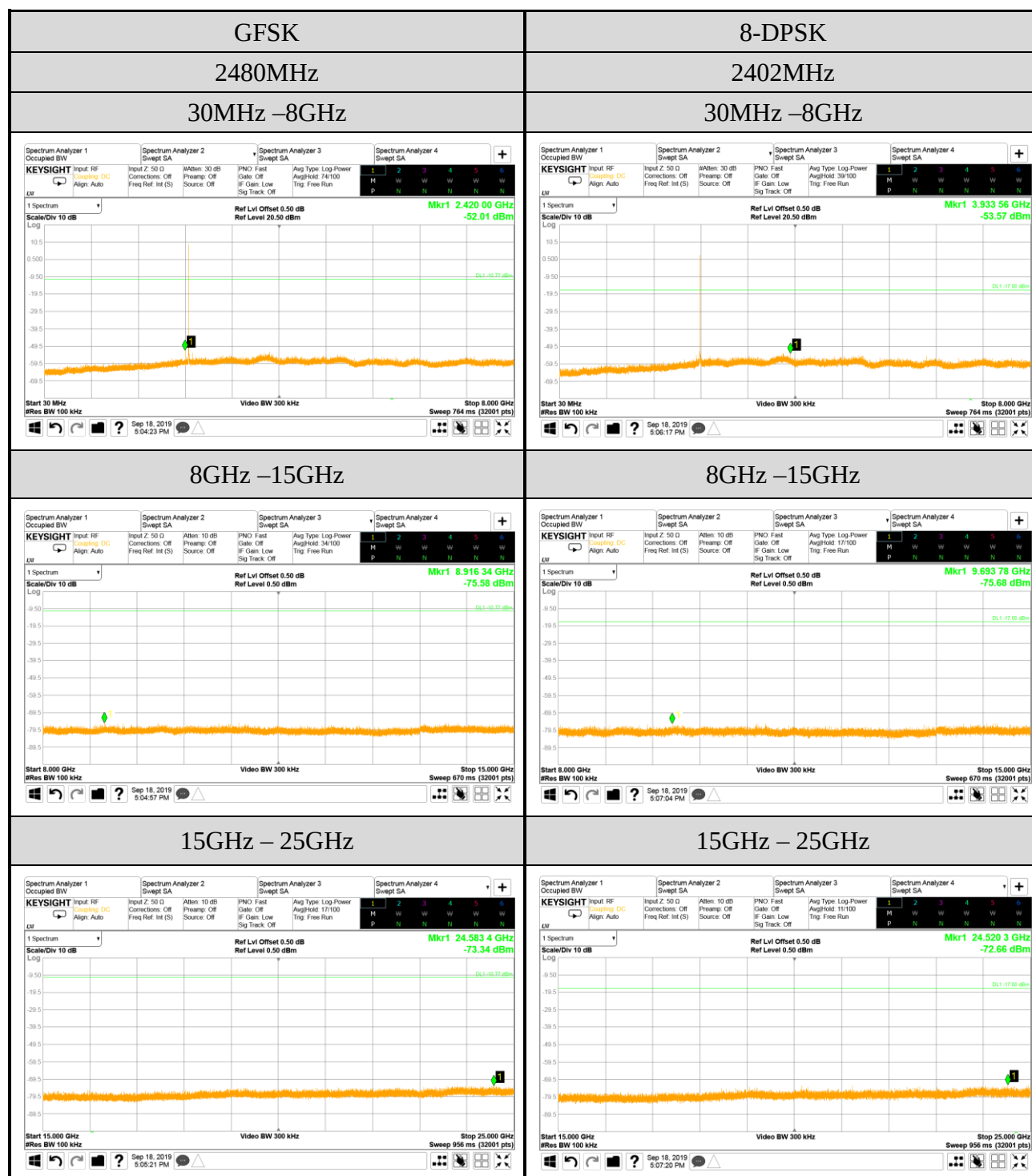
A.8.2 Spurious Emission



Note: All results have been included cable loss.

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Note: All results have been included cable loss.



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APPENDIX B

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APPDNDIX B

TEST PHOTOGRAPHS

(Model: 17U70N)