

FCC 15.247 & RSS-247 2.4GHz Test Report

for

Sony Group Corporation
1-7-1 Konan Minato-ku Tokyo, 108-0075 Japan

Product Name : Digital Media Player
Model Name : YY1305B
Brand : SONY
FCC ID : AK8YY1305B
IC : 409B-YY1305B

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.

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APPENDIX A TEST DATA AND PLOTS

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TEST REPORT

Applicant : Sony Group Corporation
Manufacturer : Sony Group Corporation
EUT Description
(1) Product : Digital Media Player
(2) Model : YY1305B
(3) Brand : SONY
(4) Power Supply : DC 5V by Charging or DC 3.8V by Lithium Battery

Applicable Standards:

Title 47 CFR FCC Part 15 Subpart C
RSS-Gen Issue 6 July 2026
RSS-247 Issue 4, July 2025

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.

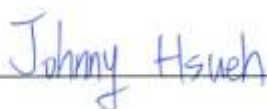
Date of Report: 2026. 09. 21

Reviewed by:



(Annie Yu/Section Manager)

Approved by:



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1. REVISION RECORD OF TEST REPORT

Edition No	Issued Date	Revision Summary	Report Number
0	2026. 09. 21	Original Report	EM-F260322

2. Summary of TEST results

Rule		Description	Results
FCC	IC		
15.207	RSS-Gen §7.4.2	Conducted Emission	PASS
15.247(d)/15.205	RSS-Gen §7.4.3 RSS-247 §6.6	Radiated Band Edge and Radiated Spurious Emission	PASS
15.247(a)(1)	RSS-247 §6.2.3.1(a)	20dB/Occupied Bandwidth	PASS
15.247(a)(1)	RSS-247 §6.2.3.1(a)	Carrier Frequency Separation	PASS
15.247(a)(1)(iii)	RSS-247 §6.2.3.1(b)	Time of Occupancy	PASS
15.247(a)(1)(iii)	RSS-247 §6.2.3.1(b)	Number of Hopping Channels	PASS
15.247(b)(1)	RSS-247 §6.2.3.2	Maximum Peak Output Power	PASS
15.247(d)	RSS-247 §6.6	Conducted Band Edges and Conducted Spurious Emission	PASS
Note: The uncertainties value is not used in determining the result.			

3. GENERAL INFORMATION

The EUT's information described in this section are all provided by the applicant.

3.1. Description of Application

Applicant	Sony Group Corporation 1-7-1 Konan Minato-ku Tokyo, 108-0075 Japan
Manufacturer	Sony Group Corporation 1-7-1 Konan Minato-ku Tokyo, 108-0075 Japan
Product	Digital Media Player
Brand	SONY
Model	YY1305B

3.2. Description of EUT

Test Model	YY1305B		
Serial Number	N/A		
Software Version	N/A		
Power Rating	DC 5V by Charging or DC 3.8V by Lithium Battery		
RF Features	WLAN: 802.11 a/b/g/n/ac/ax Bluetooth: BT and BLE		
Transmit Type	2.4 GHz Bands		
	802.11b		1T1R
	802.11g		1T1R
	802.11n-HT20/40		1T1R
	802.11ax-HE20/40		1T1R
	BT/BLE		1T1R
	U-NII Bands		
	802.11a		1T1R
	802.11n-HT20/40		1T1R
	802.11ac-VHT20/40/80/160		1T1R
	802.11ax-HE20/40/80/160		1T1R
	WLAN 6E Bands		
	802.11a		1T1R
	802.11ax-HE20/40/80/160		1T1R
Sample Status	Trial sample		
Test Sample	Sample No.	Test Item	Firmware
	03	AC Conduction	N/A
	03	Radiated	N/A
	02	RF Conducted	N/A
Date of Receipt	2026. 05. 29		
Date of Test	2026. 07. 01 ~ 09. 15		
Interface Ports of EUT	• USB-C Port x 1 • Micro SD Slot x 1 • 3.5mm headphone jack x 1 • 4.4mm headphone jack x1		
Accessories Supplied	• Type C Cable: Detached, 0.5m		

Note: Pursuant ISO 17025:2017 section 7.8.2, Audix Technology Corp. does not assume responsibility for all EUT's information including RF features, transmit type, antenna information...etc are provided by customer.

3.3. Reference Test Guidance

FCC: ANSIC63.10-2020

ISED: ANSIC63.10-2020 + Cor. 1-2023 + C63.10a-2024 + Errata to C63.10a-2024



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3.4. Antenna Information

No.	Manufacture	Antenna Model	Antenna Type	Frequency (MHz)	Max Gain(dBi)
1	PEGATRON & INPAQ	YY1305B	PIFA	2400-2500	3.13
				5150-5250	0.10
				5250-5350	0.10
				5470-5725	0.20
				5725-5850	0.81
				5925-6425	1.25
				6425-6525	0.87
				6525-6875	1.15
				6875-7125	0.49

Note: The antenna is compliance with FCC Part 15 Section § 15.203 and RSS-Gen §5.2 requirement.

3.5. 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		

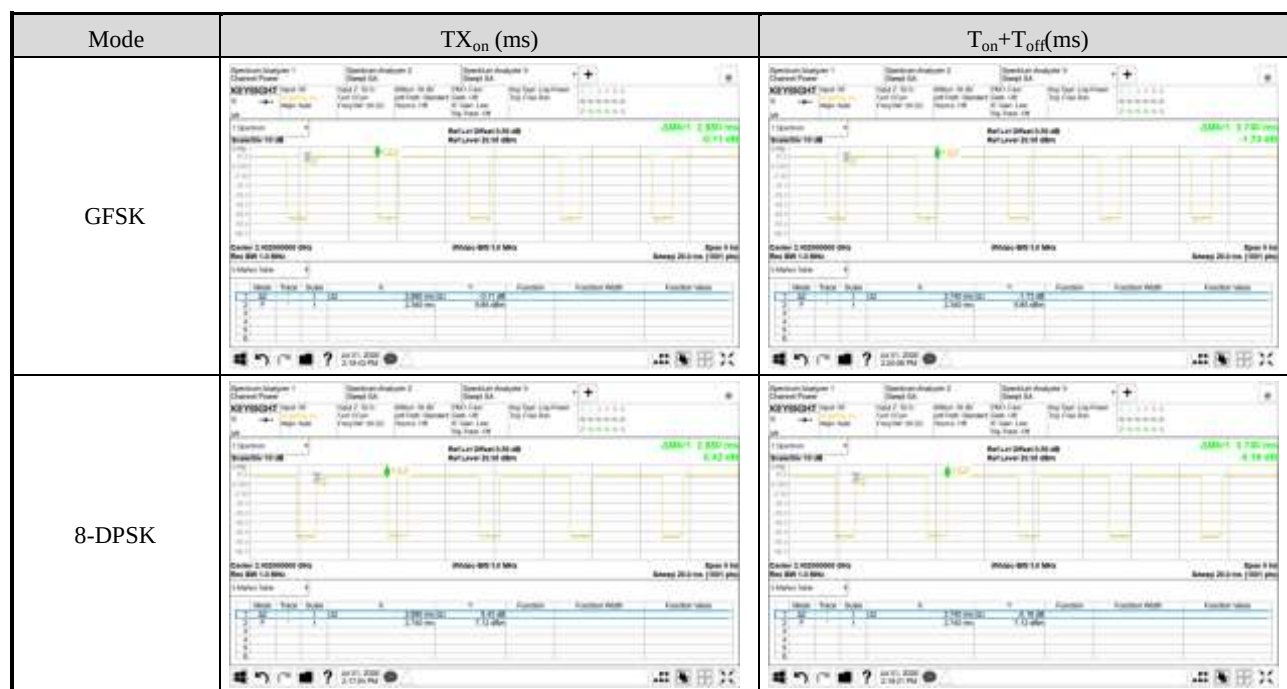
3.6. Description of Key Components

None

3.7. Test Configuration

BT Mode	TX _{on} (ms)	TX _{on+off} (ms)	Duty Cycle (x)	Duty Cycle Factor [10log(1/x)] (dB)
GFSK	2.880	3.740	0.770	1.135
8-DPSK	2.880	3.740	0.770	1.135

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.



Item	Mode
AC Conduction Test Case	Normal Operation

Item	Mode
Radiated Test Case Radiated Spurious Emission (30MHz~1GHz)	Normal Operation

Item	Mode	Data Rate	Test Frequency (MHz)
Radiated Test Case Note1	Radiated Spurious Emission (30MHz~1GHz) ^{Note 2}	8-DPSK	3Mbps
	Radiated Band Edge	GFSK	1Mbps
		8-DPSK	3Mbps
	Radiated Spurious Emission ^{Note13}	GFSK	1Mbps
		8-DPSK	3Mbps
Item	Mode	Data Rate	Test Frequency (MHz)
Conducted Test Case	20dB/Occupied Bandwidth	GFSK	1Mbps
		8-DPSK	3Mbps
	Carrier Frequency Separation	GFSK	1Mbps
		8-DPSK	3Mbps
	Time of Occupancy	GFSK	1Mbps
		8-DPSK	3Mbps
	Number of Hopping Channels	GFSK	1Mbps
		8-DPSK	3Mbps
	Maximum Peak Output Power	GFSK	1Mbps
		8-DPSK	3Mbps
	Band Edges	GFSK	1Mbps
		8-DPSK	3Mbps
	Spurious Emission	GFSK	1Mbps
		8-DPSK	3Mbps

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

Note 3: In accordance with ANSI C63.10-2020, Clause 6.3.4, both tabular data and spectral plots are provided. Since multiple operating modes were evaluated, only the worst-case spectral plots representing the maximum emission levels for each mode in each operating band are included in this report.

3.8. Output Power Setting

Modulation Type	Centre Frequency (MHz)	Power Setting
BT (GFSK)	2402	9.00
	2441	9.00
	2480	9.00
BT (8DPSK)	2402	9.00
	2441	9.00
	2480	9.00

3.9. Tested Supporting System List

3.9.1. Support Peripheral Unit

No.	Product	Brand	Model No.	Serial No.	Approval	Remarks
A	Notebook PC	ASUS	X1403Z	N/A	N/A	Provided by LAB
		acer	N22Q3	N/A	N/A	Provided by LAB
B	Balanced Adapter	N/A	N/A	N/A	N/A	Supplied by Client
C	Earphone #1	SONY	MDR-1AM2	N/A	N/A	Supplied by Client
D	Earphone #2	APPLE	N/A	N/A	N/A	Provided by LAB
E	Micro SD Card	SanDisk	N/A	N/A	N/A	Provided by LAB

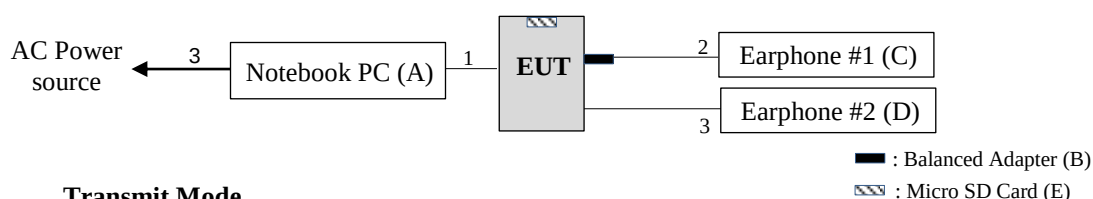
3.9.2. Cable Lists

No.	Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1	USB-C to A Cable	1	0.5	Yes	0	Supplied by Client
2	Earphone Cable	1	1.2	No	0	Supplied by Client
3	Earphone Cable	1	2.0	No	0	Provided by LAB
4	AC Power Cord (3C)	1	1.8	No	0	Provided by LAB

3.10. Setup Configuration

3.10.1. EUT Configuration for Power Line & Radiated Emission

Normal Mode

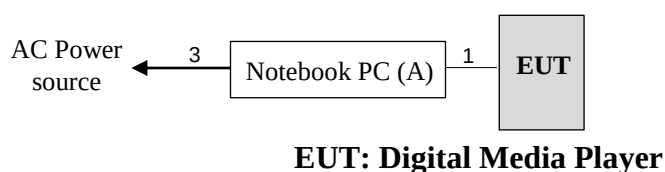


Transmit Mode



EUT: Digital Media Player

3.10.2. EUT Configuration for RF Conducted Test Items



3.11. Operating Condition of EUT

Normal Mode	Notebook PC sent 1kHz Data transmitting to Digital Media Player via audio in function.
Transmit Mode	Test program “QRCT V4.0-00211” is used for enabling EUT RF function under continue transmitting and choosing channel.

3.12. Description of Test Facility

Name of Test Firm	Audix Technology Corporation / EMC Department No. 491, Zhongfu Rd., 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

3.13.Measurement Uncertainty

The measurement uncertainty levels have been estimated as specified in ETSI TR 100 028-2001

Test Items/Facilities			Frequency Range	Uncertainty
Conduction Test	☐	No. 7 Shielded Room	9kHz-150kHz	±3.7dB
			150kHz-30MHz	±3.4dB
	☒	No. 8 Shielded Room	9kHz-150kHz	±3.7dB
			150kHz-30MHz	±3.4dB
Radiation Test	☒	No.1 3m Semi Anechoic Chamber	30MHz-200MHz, 3m, Horizontal	±4.0dB
			200MHz-1000MHz, 3m, Horizontal	±4.0dB
			30MHz-200MHz, 3m, Vertical	±4.8dB
			200MHz-1000MHz, 3m, Vertical	±4.5dB
			1GHz-6GHz, 3m	±4.2dB
			6GHz-18GHz, 3m	±4.0dB
	☐	No.3 3m Semi Anechoic Chamber	30MHz-200MHz, 3m, Horizontal	±4.3dB
			200MHz-1000MHz, 3m, Horizontal	±4.0dB
			30MHz-200MHz, 3m, Vertical	±4.7dB
			200MHz-1000MHz, 3m, Vertical	±4.5dB
			1GHz-6GHz, 3m	±4.7dB
			6GHz-18GHz, 3m	±4.4dB
	☐	No.4 3m Semi Anechoic Chamber	30MHz-200MHz, 3m, Horizontal	±3.9dB
			200MHz-1000MHz, 3m, Horizontal	±3.9dB
			30MHz-200MHz, 3m, Vertical	±4.6dB
			200MHz-1000MHz, 3m, Vertical	±4.3dB
			1GHz-6GHz, 3m	±4.6dB
			6GHz-18GHz, 3m	±4.1dB
	☐	No.5 3m Semi Anechoic Chamber	30MHz-200MHz, 3m, Horizontal	±4.4dB
			200MHz-1000MHz, 3m, Horizontal	±4.2dB
			30MHz-200MHz, 3m, Vertical	±4.9dB
			200MHz-1000MHz, 3m, Vertical	±5.1dB
			1GHz-6GHz, 3m	±4.4dB
			6GHz-18GHz, 3m	±4.0dB
		Radiated emissions (18GHz-40GHz)		18GHz-40GHz, 3m

Remark : Uncertainty = $k_{uc}(y)$

Test Item	Uncertainty
20dB Bandwidth	±0.48%
99% Occupied Bandwidth	±0.38%
Carrier Frequency Separation	±0.2kHz
Time of Occupancy	±2.6%
Maximum peak Output power	± 0.8dB
Conducted Emission Limitations	±1.24 dB

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	2025.12.30	1 Year
2.	A.M.N.	R&S	ENV432	101567	2026.07.14	1 Year
3.	L.I.S.N	Kyoritsu	KNW-407	8-1370-9	2026.01.29	1 Year
4.	Pulse Limiter	R&S	ESH3-Z2	100354	2025.12.04	1 Year
5.	Signal Cable	Yeida	RG/58AU	CE-08	2026.09.02	1 Year
6.	Digital Thermo-Hygro Meter	iMax	HTC-1	No.8 S/R	2026.04.08	1 Year
7.	Test Software	Audix	e3	V9 18621a	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-526	MY53400071	2025.08.07	1 Year
	Spectrum Analyzer	Agilent	N9010A-526	MY53400071	2026.07.27	1 Year
2.	Spectrum Analyzer	Keysight	N9020B	MY57120357	2026.01.27	1 Year
3.	Test Receiver	R&S	ESCS30	100338	2026.06.15	1 Year
4.	Amplifier	HP	8447D	2944A06305	2025.12.11	1 Year
5.	Amplifier	HP	8449B	3008A01284	2026.06.30	1 Year
6.	Amplifier	Agilent	8449B	3008A02678	2026.02.23	1 Year
7.	Amplifier	SGH	SGH184	20221107-2	2026.07.02	1 Year
8.	Loop antenna	TESEQ	HLA 6121	60478	2026.06.03	1 Year
9.	Bilog Antenna	TESEQ	CBL6112D	33821	2026.02.06	1 Year
10.	Horn Antenna	EMCO	3115	9112-3775	2026.04.29	1 Year
11.	Horn Antenna	COM-POWER	AH-840	10090054	2025.09.03	1 Year
	Horn Antenna	COM-POWER	AH-840	10090054	2026.09.03	1 Year
12.	2.4GHz Notch Filter	K&L Microwave	7NSL10-2441.5/E130 .5-O/O	1	2026.04.08	1 Year
13.	High-Pass Filter	Microwave Circuits	H3G018G1	484796	2026.04.09	1 Year
14.	Coaxial Cable	MIYAZAKI	5D2W	RE-11	2026.01.02	1 Year
15.	Coaxial Cable	HUBER+SUHNER	RG223/U	RE-33	2026.06.09	1 Year
16.	Coaxial Cable	HUBER+SUHNER	SUCOFLEX 106	RE-14	2025.12.17	1 Year
17.	Coaxial Cable	EMEC	EM102A	RE-38	2025.07.11	1 Year
	Coaxial Cable	EMEC	EM102A	RE-38	2026.07.10	1 Year
18.	Digital Thermo-Hygro Meter	iMax	HTC-1	No.1 3m A/C	2026.04.08	1 Year
19.	Test Software	Audix	e3	V9 18621a	N.C.R.	N.C.R.

4.3. RF Conducted Measurement

Item	Type	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Interval
1.	Spectrum Analyzer	Keysight	N9030B	MY61330403	2025.12.12	1 Year
2.	Power Meter	Anritsu	ML2495A	2127004	2025.11.18	1 Year
3.	Power Sensor	Anritsu	MA2411B	1911360	2025.11.18	1 Year
4.	Digital Thermo-Hygro Meter	iMax	HTC-1	RF-03	2026.04.08	1 Year

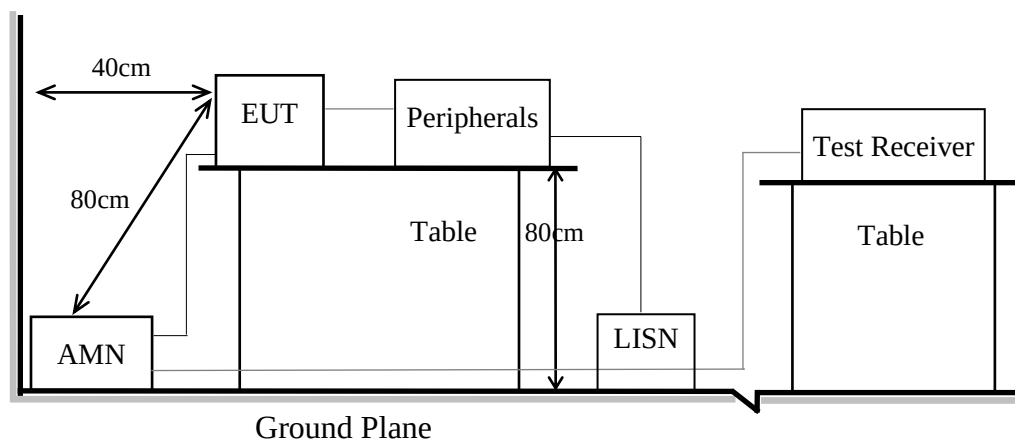
5. CONDUCTED EMISSION

5.1. Block Diagram of Test Setup

5.1.1. Block Diagram of EUT

Indicated as section 3.10

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

- Remark 1. 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.

5.4. Test Results

Please refer to Appendix A.

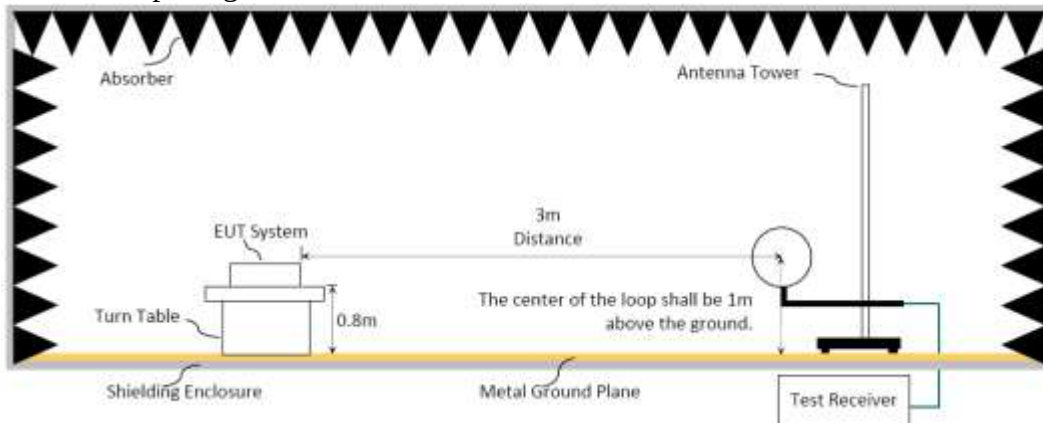
6. RADIATED EMISSION

6.1. Block Diagram of Test Setup

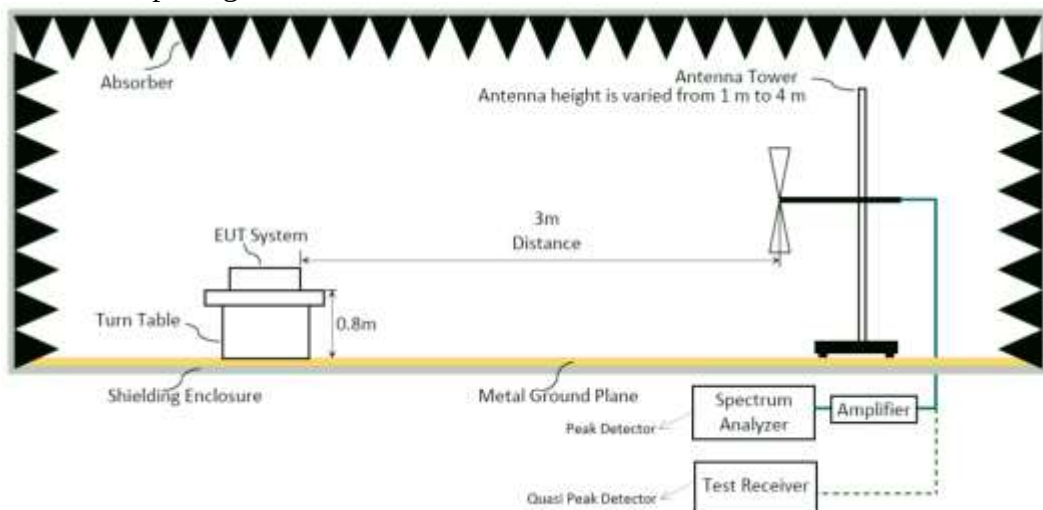
6.1.1. Block Diagram of EUT

Indicated as section 3.10

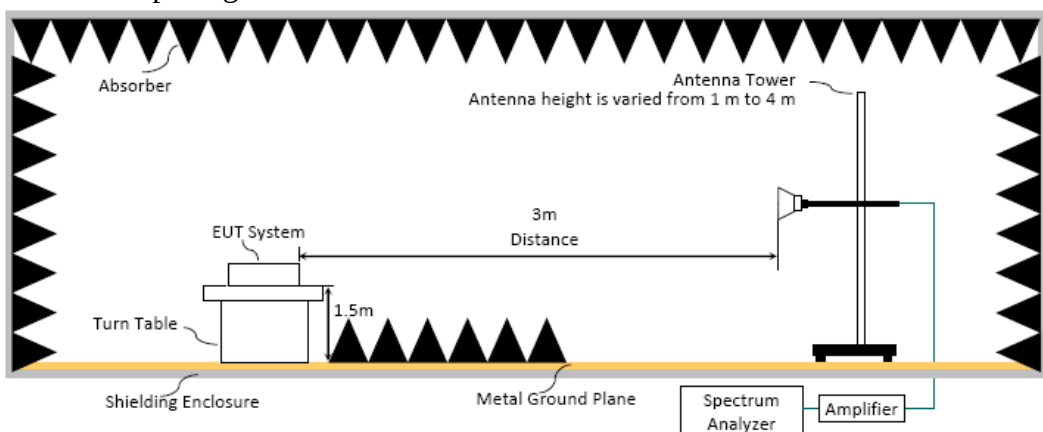
6.1.2. Setup Diagram for 9kHz-30MHz



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 7.5 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 C63.10-2020 & ANSI C63.10-2020 + Cor. 1-2023 + C63.10a-2024 + Errata to C63.10a-2024 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 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 C63.10-2020 & ANSI C63.10-2020 + Cor. 1-2023 + C63.10a-2024 + Errata to C63.10a-2024 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 $\geq 1/T$. (Duty Cycle < 98%, when duty cycle presented in section 3.7)

Modulation Type	VBW Setting (VBW $\geq 1/T$)
BT (GFSK)	360 Hz
BT (8DPSK)	360 Hz

(3) VBW = set VBW $\leq$ RBW / 100, but not less than 10Hz (Duty Cycle $\geq$ 98%, when duty cycle presented in section 3.7)

(4) Detector = Peak.

(5) Sweep time = auto.

(6) Trace mode = max hold.

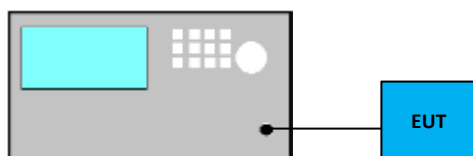
(7) Allow sweeps to continue until the trace stabilizes.

☐ **Option 2:**Average Emission Level (dB μ V/m) = Peak Emission Level (dB μ V/m) + DCCF (dB).**6.4. Measurement Result Explanation**☒ Peak Emission Level (dB μ V/m) =Antenna Factor (dB/m) + Cable Loss (dB) – Preamp Gain (dB) + Reading (dB μ V).☒ Average Emission Level (dB μ V/m) =Antenna Factor (dB/m) + Cable Loss (dB) – Preamp Gain (dB) + Reading (dB μ V).☐ Average Emission Level (dB μ V/m) = Peak Emission Level (dB μ V/m) + DCCF (dB)Duty Cycle Correction Factor (DCCF) (dB) = $20\log(TX_{on}/TX_{on+off})$ presented in section 3.7.☐ ERP (dBm) = Peak Emission Level (dB μ V/m) - 95.2dB - 2.14dB**6.5. Test Results**

Please refer to Appendix A.

7. 20dB/Occupied 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 C63.10-2020 & ANSI C63.10-2020 + Cor. 1-2023 + C63.10a-2024 + Errata to C63.10a-2024:

For 20dB Bandwidth

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

For 99% Occupied Bandwidth

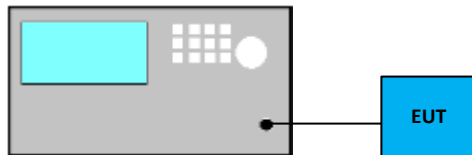
- (9) Set Span range 1.5~5 times the OBW
- (10) Set RBW close to 1% to 5% of OBW.
- (11) Set VBW $\geq 3 \times$ RBW.
- (12) Detector = Peak.
- (13) Trace mode = Max hold
- (14) Sweep = Auto couple.
- (15) Allow the trace to stabilize.

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 C63.10-2020 & ANSI C63.10-2020 + Cor. 1-2023 + C63.10a-2024 + Errata to C63.10a-2024:

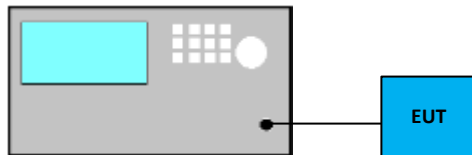
- (1) Span = Wide enough to capture the peaks of two adjacent channels
- (2) RBW: Start with the RBW set to approximately 30% of the channel spacing; adjust as necessary to best identify the center of each individual channel.
- (3) $VBW \geq RBW$
- (4) Sweep = Auto
- (5) Detector function = Peak
- (6) 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 C63.10-2020 & ANSI C63.10-2020 + Cor. 1-2023 + C63.10a-2024 + Errata to C63.10a-2024 :

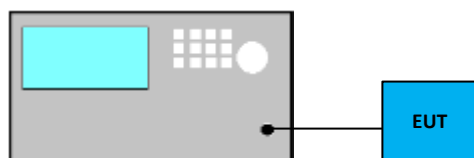
- (1) Span: Zero span, centered on a hopping channel.
- (2) RBW shall be $\leq$ channel spacing and where possible RBW should be set $\gg 1 / T$, where T is the expected transmission time per hop.
- (3) Sweep time: Set so that the start of the first transmission and end of the last transmission for the hop are clearly captured. Setting the sweep time to be slightly longer than the hopping period per channel (hopping period = $1/\text{hopping rate}$) should achieve this.
- (4) Use a video trigger, where possible with a trigger delay, so that the start of the transmission is clearly observed. The trigger level might need adjustment to reduce the chance of triggering when the system hops on an adjacent channel.
- (5) Detector function: Peak.
- (6) Trace: Clear-write, single sweep.
- (7) Place markers at the start of the first transmission on the channel and at the end of the last transmission. The dwell time per hop is the time between these two markers.

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 C63.10-2020 & ANSI C63.10-2020 + Cor. 1-2023 + C63.10a-2024 + Errata to C63.10a-2024:

- (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 = 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 following transmitter output power and e.i.r.p requirements shall apply:

- If the hopset uses 75 or more hopping channels, the maximum peak conducted output power shall not exceed 1.0 W.
- If the hopset uses less than 75 hopping channels the maximum peak conducted output power shall not exceed 0.125 W.
- The e.i.r.p. shall not exceed 4 W, except as provided in sections 6.5 a) and b) of RSS-247 standard.

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.

11.3. Test Procedure

Following measurement procedure is reference to ANSI C63.10-2020
& ANSI C63.10-2020 + Cor. 1-2023 + C63.10a-2024 + Errata to C63.10a-2024:

☒ **PKPM1 Peak power meter method:**

EUT is connected to power sensor and record the maximum output power.

☐ **Maximum peak conducted output power method:**

- (1) Set the RBW $\geq$ DTS bandwidth
- (2) Set VBW $\geq 3 \times$ RBW
- (3) Set span $\geq 3 \times$ RBW.
- (4) Sweep time = auto couple
- (5) Detector = peak.
- (6) Trace mode = max hold.
- (7) Allow trace to fully stabilize.
- (8) Use peak marker function to determine the peak amplitude level.

☒ **Method AVGPM (Measurement using an RF average power meter):**

EUT is connected to power sensor and record the maximum average output power and duty cycle factor is added when duty cycle presented in section 3.7 is $< 98\%$.

☐ **Method AVGSA-2 (Spectrum channel power)**

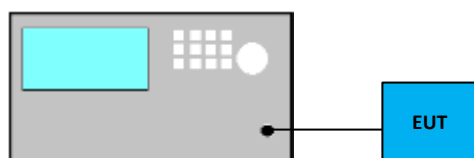
- (1) Set span to at least 1.5 times the OBW
- (2) Set RBW = 1 -5% of OBW
- (3) Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
- (4) Detector = RMS.
- (5) Trace mode = trace average at least 100 traces
- (6) Sweep = auto couple.
- (7) Compute power by integrating the spectrum across the OBW of the signal using the instrument's band power measurement function with band limits set equal to the OBW band edges.
- (8) Duty cycle factor is added when duty cycle presented in section 3.7 is $< 98\%$.

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 100 kHz bandwidth outside the frequency band in which the spread spectrum device, digitally modulated device (or hybrid system) is operating, the RF power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power – based on either an RF conducted or a radiated measurement – provided that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of root-mean-square averaging over a time interval, as permitted under section 6.3.2, the attenuation required shall be 30 dB instead of 20 dB.

Attenuation below the general limits specified in Section 15.209(a)/RSS-Gen Section 7.4.3 table 4 & 5 is not required. In addition, radiated emissions which fall in restricted bands, as defined in Section 15.205(a)/RSS-Gen Section 7.5 table 6, must also comply with the radiated emission limits specified in Section 15.209(a)/RSS-Gen Section 7.4.3 table 4 & 5 (See Section 15.205(c)).

12.3. Test Procedure

Following measurement procedure is reference to ANSI C63.10-2020
& ANSI C63.10-2020 + Cor. 1-2023 + C63.10a-2024 + Errata to C63.10a-2024:

☒ Reference Level

- (1) Set analyzer center frequency to channel center frequency.
- (2) Set the span to 1.5 times the bandwidth.
- (3) Set the RBW to: 100 kHz.
- (4) Set the VBW $\geq 3 \times$ RBW.
- (5) Detector = peak.
- (6) Sweep time = auto couple.
- (7) Trace mode = max hold.
- (8) Allow trace to fully stabilize to find the max in-band level.

☒ Conducted spurious emission & Band-edges :

- (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: YY1305B)

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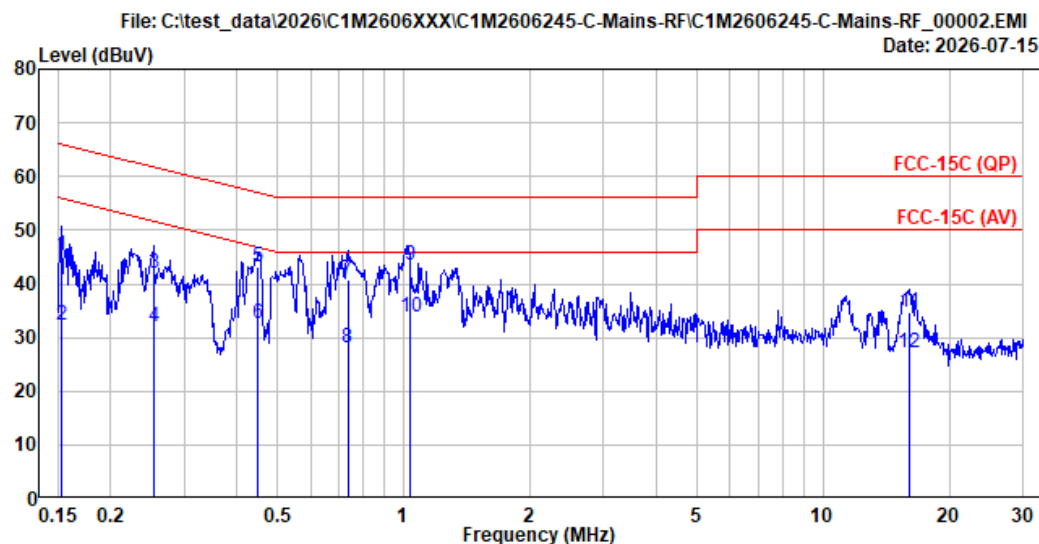
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A.1 CONDUCTED EMISSION

Test Date	2026/07/15	Temp./Hum.	24°C/57%
Test Voltage	DC 5V (Via USB)	Tested By	Jemy Wang



Site No.	: No.8 Shielded Room	Data No.	: 2
Instrument 1	: Receiver ESR(774)		
Instrument 2	: ENV432 (567)(A) CE-08 ESH3-Z2 (354)		
Limit	: FCC-15C (QP)	Phase	: Neutral
Environment	: 24°C/57%	Test Rating	: DC 5V
EUT Model	: YY1305B	Engineer	: Jemy Wang
Test Mode	: Operating		

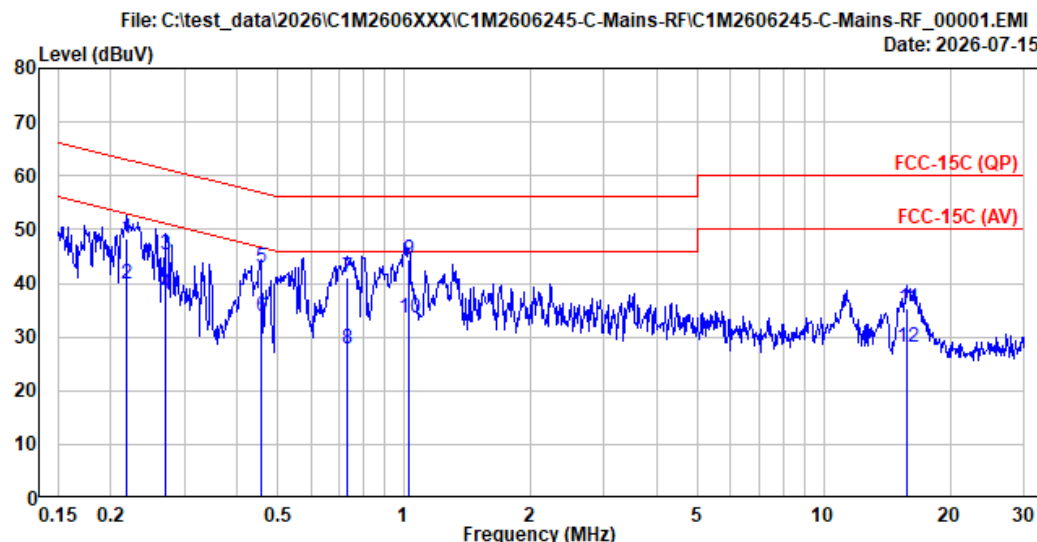
	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Pulse Att. (dB)	Reading (dBμV)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Remark
1	0.152	10.33	0.03	9.85	25.19	45.40	65.88	20.48	QP
2	0.152	10.33	0.03	9.85	12.20	32.41	55.88	23.47	Average
3	0.253	10.31	0.03	9.85	21.84	42.03	61.65	19.62	QP
4	0.253	10.31	0.03	9.85	11.95	32.14	51.65	19.51	Average
5	0.449	10.30	0.03	9.85	22.85	43.03	56.89	13.86	QP
6	0.449	10.30	0.03	9.85	12.46	32.64	46.89	14.25	Average
7	0.736	10.31	0.04	9.85	20.60	40.80	56.00	15.20	QP
8	0.736	10.31	0.04	9.85	7.89	28.09	46.00	17.91	Average
9	1.036	10.31	0.04	9.85	23.33	43.53	56.00	12.47	QP
10	1.036	10.31	0.04	9.85	13.57	33.77	46.00	12.23	Average
11	16.009	10.83	0.18	9.92	13.90	34.83	60.00	25.17	QP
12	16.009	10.83	0.18	9.92	6.33	27.26	50.00	22.74	Average

Remarks: 1. Emission Level(dBμV)= AMN Factor(dB) + Cable Loss(dB) + Pulse Att.(dB) + Reading(dBμV).

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Test Date	2026/07/15	Temp./Hum.	24°C/57%
Test Voltage	DC 5V (Via USB)	Tested By	Jemy Wang



Site No.	: No.8 Shielded Room	Data No.	: 1
Instrument 1	: Receiver ESR(774)		
Instrument 2	: ENV432 (567)(A) CE-08 ESH3-Z2 (354)		
Limit	: FCC-15C (QP)	Phase	: Line
Environment	: 24°C/57%	Test Rating	: DC 5V
EUT Model	: YY1305B	Engineer	: Jemy Wang
Test Mode	: Operating		

	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Pulse Att. (dB)	Reading (dBμV)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Remark
1	0.218	10.37	0.03	9.85	27.95	48.20	62.90	14.70	QP
2	0.218	10.37	0.03	9.85	19.69	39.94	52.90	12.96	Average
3	0.270	10.36	0.03	9.85	24.98	45.22	61.11	15.89	QP
4	0.270	10.36	0.03	9.85	17.91	38.15	51.11	12.96	Average
5	0.458	10.35	0.03	9.85	22.52	42.75	56.73	13.98	QP
6	0.458	10.35	0.03	9.85	13.72	33.95	46.73	12.78	Average
7	0.732	10.36	0.04	9.85	20.66	40.91	56.00	15.09	QP
8	0.732	10.36	0.04	9.85	7.60	27.85	46.00	18.15	Average
9	1.027	10.36	0.04	9.85	24.22	44.47	56.00	11.53	QP
10	1.027	10.36	0.04	9.85	13.31	33.56	46.00	12.44	Average
11	15.851	10.70	0.18	9.92	14.65	35.45	60.00	24.55	QP
12	15.851	10.70	0.18	9.92	7.23	28.03	50.00	21.97	Average

Remarks: 1. Emission Level(dBμV)= AMN Factor(dB) + Cable Loss(dB) + Pulse Att.(dB) + Reading(dBμV).

A.2 RADIATED EMISSION

Test Date	2026/07/02~08/24	Temp./Hum.	23~26°C/55~60%
Test Voltage	(1)DC 5V (Via USB) (2)DC 3.8V(Via Battery)	Tested By	Ming Shih

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 1GHz

● Normal Mode

Mode	Normal Mode	Frequency	---
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
30.808	22.82	1.22	26.48	30.31	27.87	40.00	12.13	Peak
196.517	15.77	3.36	25.78	39.08	32.43	43.50	11.07	Peak
276.542	19.22	4.14	25.64	35.38	33.10	46.00	12.90	Peak
295.133	19.52	4.32	25.62	36.70	34.92	46.00	11.08	Peak
517.425	23.84	6.47	27.17	33.10	36.23	46.00	9.77	Peak
607.958	24.75	6.81	27.35	32.40	36.61	46.00	9.39	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
41.317	18.69	1.41	26.46	42.28	35.93	40.00	4.07	Peak
140.742	17.70	2.77	26.02	32.60	27.05	43.50	16.45	Peak
277.350	19.24	4.15	25.64	32.93	30.68	46.00	15.32	Peak
383.242	21.73	5.34	26.32	32.20	32.95	46.00	13.05	Peak
424.467	22.51	5.75	26.62	32.73	34.37	46.00	11.63	Peak
603.108	24.73	6.78	27.35	32.27	36.43	46.00	9.57	Peak

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● **BT Mode**

Mode	BT (8-DPSK)	Frequency	TX 2441MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
31.617	22.61	1.23	26.48	30.32	27.69	40.00	12.31	Peak
196.517	15.77	3.36	25.78	37.73	31.08	43.50	12.42	Peak
294.325	19.51	4.31	25.62	37.49	35.69	46.00	10.31	Peak
517.425	23.84	6.47	27.17	33.97	37.11	46.00	8.89	Peak
610.383	24.76	6.82	27.35	33.53	37.76	46.00	8.24	Peak
666.158	24.98	7.13	27.36	32.98	37.73	46.00	8.27	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
34.850	21.80	1.30	26.47	39.10	35.73	40.00	4.27	Peak
42.933	17.91	1.44	26.46	43.22	36.12	40.00	3.88	Peak
273.308	19.17	4.11	25.65	30.65	28.29	46.00	17.71	Peak
329.083	20.40	4.73	25.88	32.09	31.35	46.00	14.65	Peak
458.417	23.04	6.05	26.86	31.40	33.63	46.00	12.37	Peak
669.392	25.00	7.14	27.36	32.98	37.76	46.00	8.24	Peak

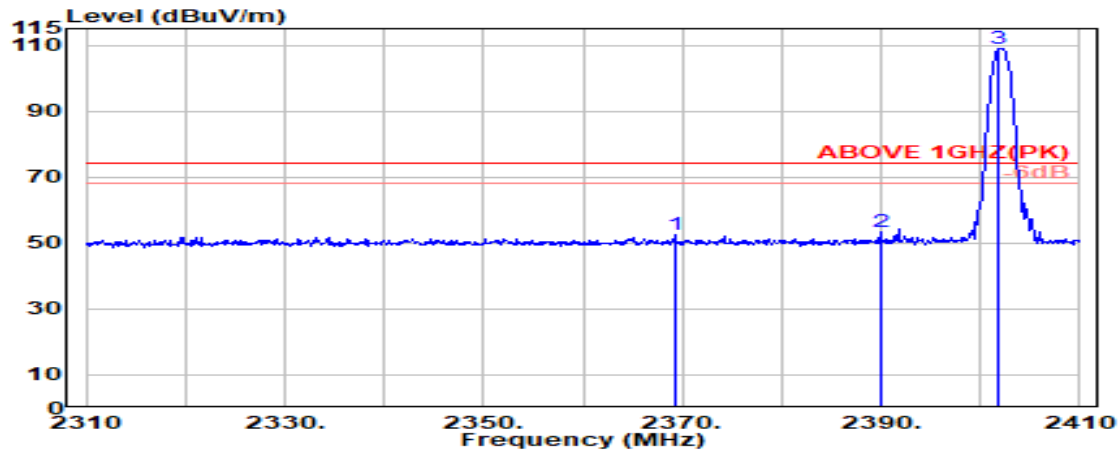
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A.2.1.3 Frequency Above 1 GHz to 10th harmonics

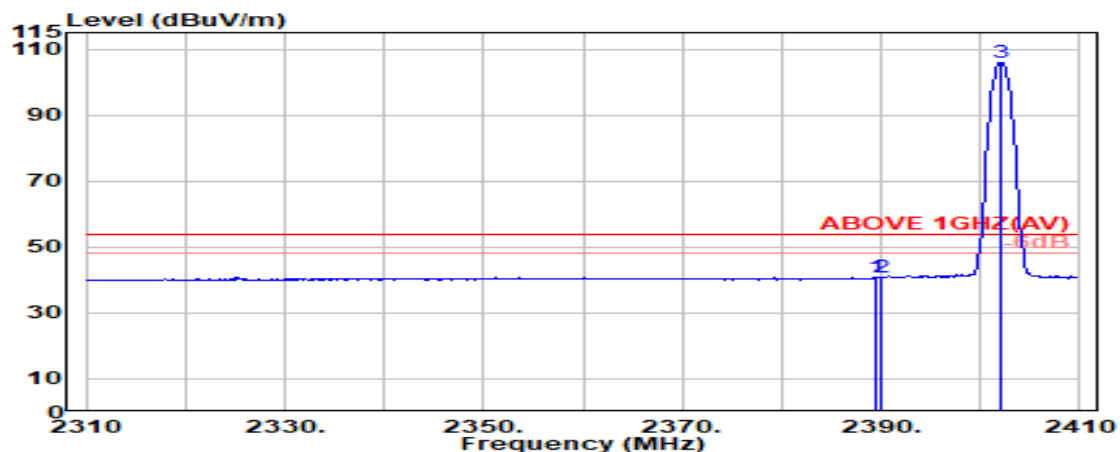
Band Edge:

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

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2369.200	28.06	7.12	34.36	51.73	52.55	74.00	21.45	Peak
2390.000	28.02	7.13	34.36	52.64	53.43	74.00	20.57	Peak
@ 2401.900	28.01	7.14	34.37	108.27	109.04	---	---	Peak



Antenna at Horizontal Polarization

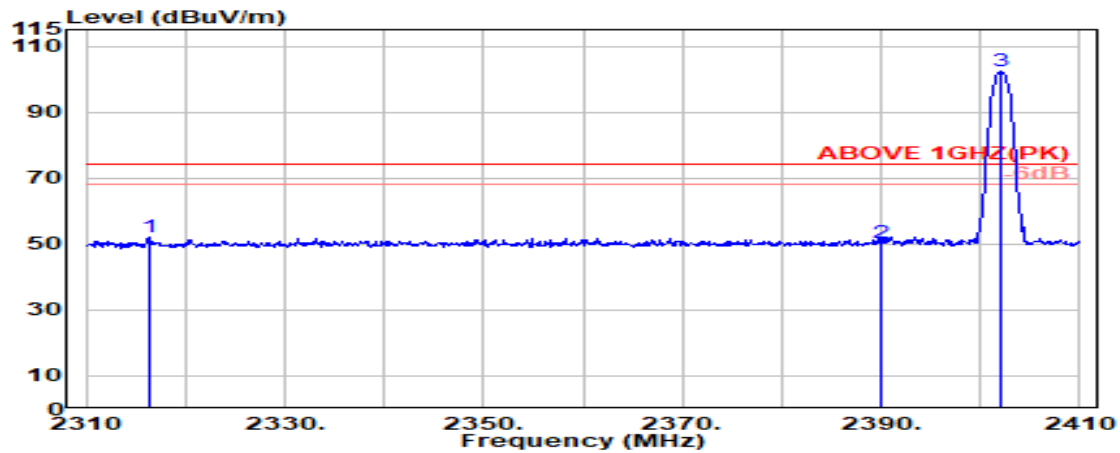
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.500	28.02	7.13	34.36	40.04	40.82	54.00	13.18	Average
2390.000	28.02	7.13	34.36	39.96	40.75	54.00	13.25	Average
@ 2402.000	28.01	7.14	34.37	105.31	106.09	---	---	Average

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

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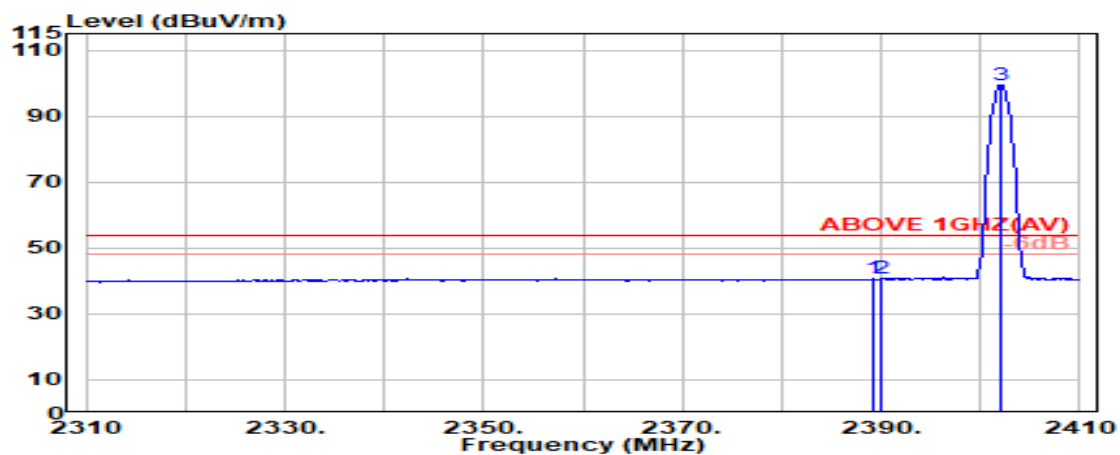
Tel: +886 2 26099301
Fax: +886 2 26099303

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

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
2316.500	27.90	7.08	34.35	51.28	51.91	74.00	22.09	Peak
2390.000	28.02	7.13	34.36	49.67	50.45	74.00	23.55	Peak
@ 2402.100	28.01	7.14	34.37	101.54	102.32	---	---	Peak



Antenna at Vertical Polarization

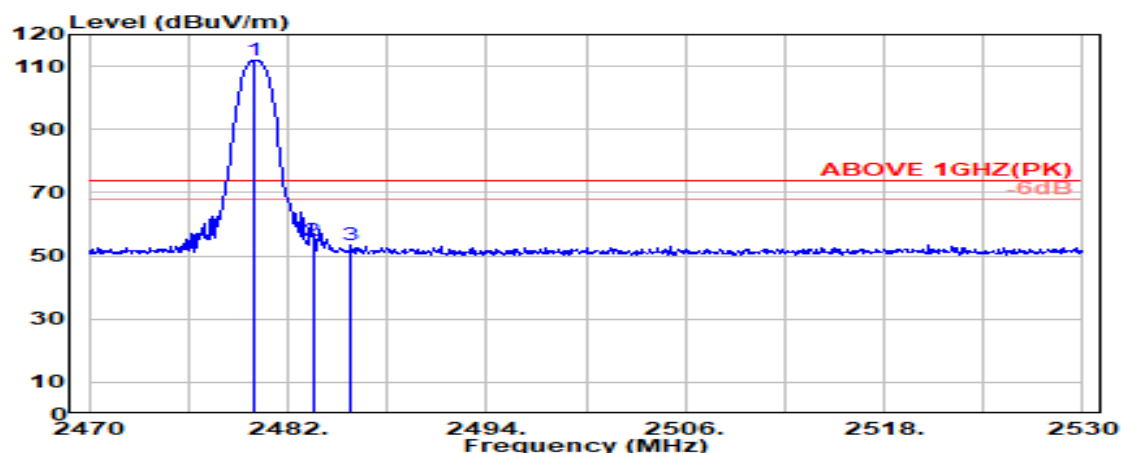
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
2389.200	28.02	7.13	34.36	39.96	40.74	54.00	13.26	Average
2390.000	28.02	7.13	34.36	39.83	40.61	54.00	13.39	Average
@ 2402.100	28.01	7.14	34.37	98.53	99.31	---	---	Average

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

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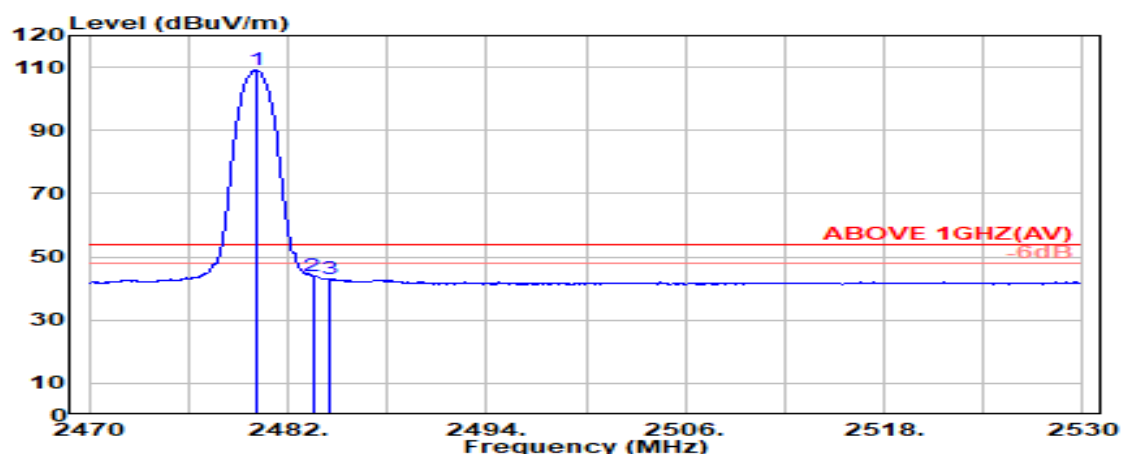
Tel: +886 2 26099301
Fax: +886 2 26099303

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

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2479.900	28.26	7.19	34.39	110.93	111.99	---	---	Peak
2483.500	28.27	7.19	34.39	53.93	55.00	74.00	19.00	Peak
2485.800	28.27	7.19	34.39	52.52	53.60	74.00	20.40	Peak



Antenna at Horizontal Polarization

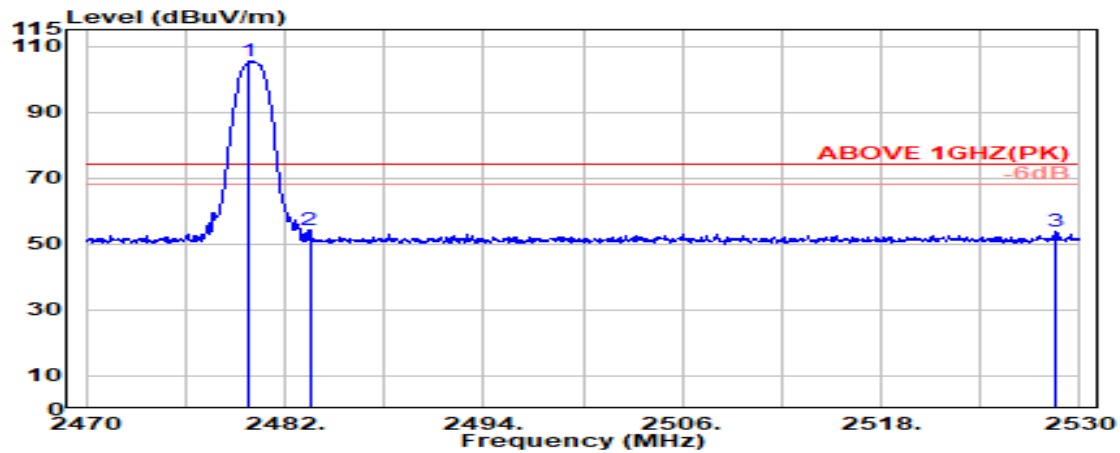
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2480.050	28.26	7.19	34.39	107.94	109.00	---	---	Average
2483.500	28.27	7.19	34.39	42.87	43.95	54.00	10.05	Average
2484.500	28.27	7.19	34.39	41.89	42.97	54.00	11.03	Average

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

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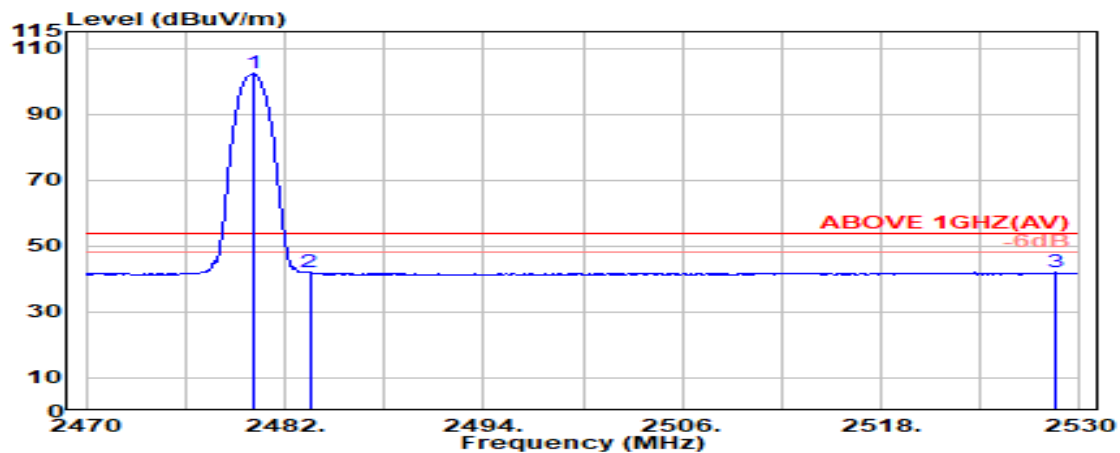
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Fax: +886 2 26099303

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

	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
@	2479.850	28.26	7.19	34.39	104.26	105.32	---	---	Peak
	2483.500	28.27	7.19	34.39	53.39	54.46	74.00	19.54	Peak
	2528.600	28.41	7.23	34.39	52.41	53.66	74.00	20.34	Peak

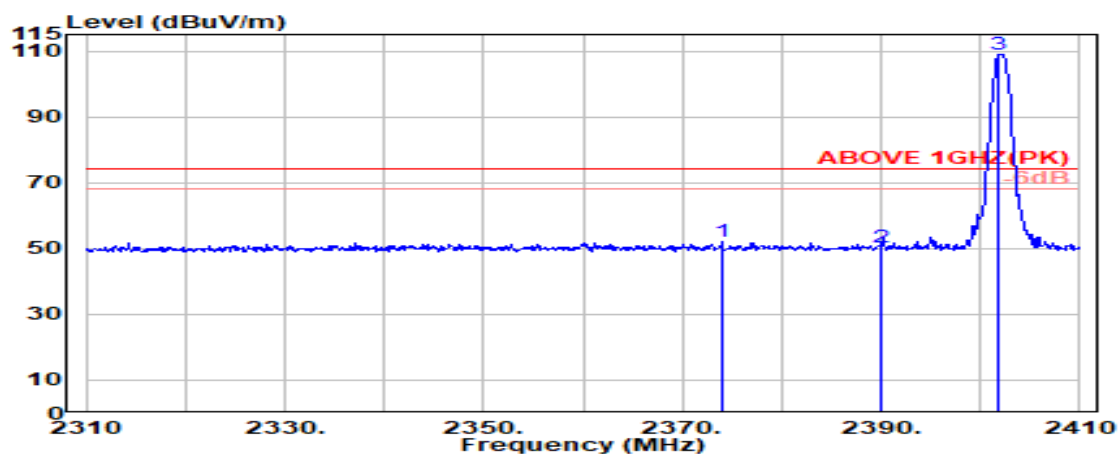


Antenna at Vertical Polarization

	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
@	2480.100	28.26	7.19	34.39	101.19	102.25	---	---	Average
	2483.500	28.27	7.19	34.39	40.86	41.93	54.00	12.07	Average
	2528.550	28.41	7.23	34.39	40.79	42.04	54.00	11.96	Average

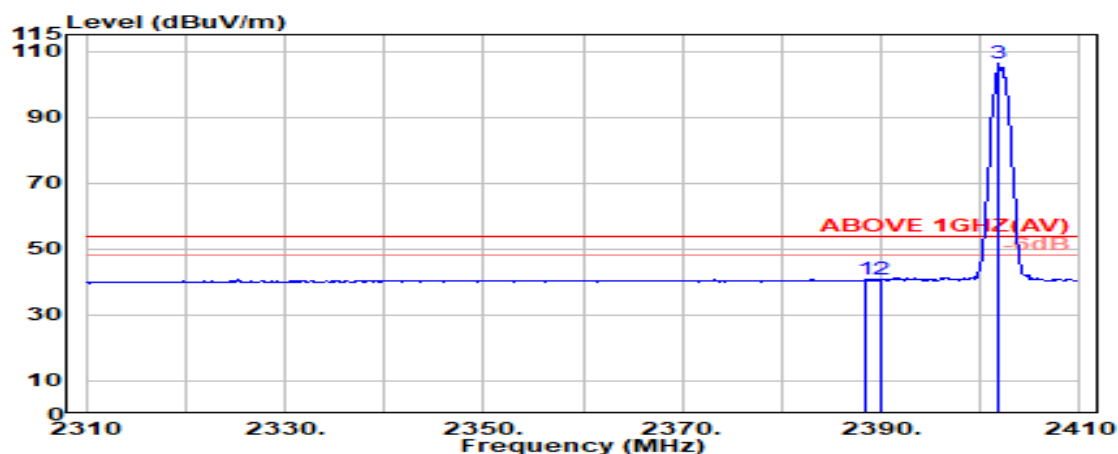
Remark: The “@” means fundamental frequency, it is ignored in this section.

Mode	BT(GFSK)	Frequency	TX 2402MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2374.000	28.05	7.12	34.36	51.46	52.27	74.00	21.73	Peak
2390.000	28.02	7.13	34.36	49.40	50.18	74.00	23.82	Peak
@ 2401.900	28.01	7.14	34.37	108.20	108.98	---	---	Peak



Antenna at Horizontal Polarization

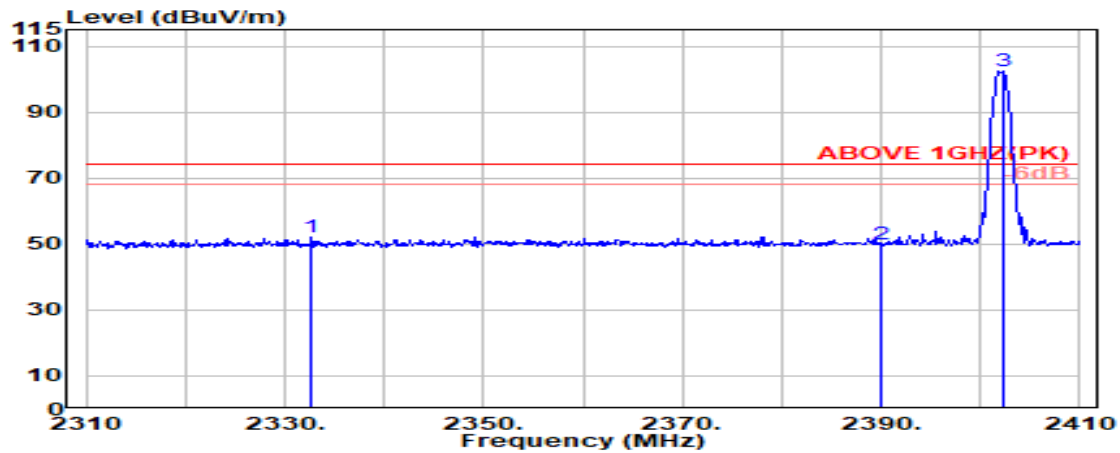
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2388.500	28.02	7.13	34.36	40.11	40.89	54.00	13.11	Average
2390.000	28.02	7.13	34.36	39.80	40.58	54.00	13.42	Average
@ 2401.800	28.01	7.14	34.37	105.37	106.15	---	---	Average

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

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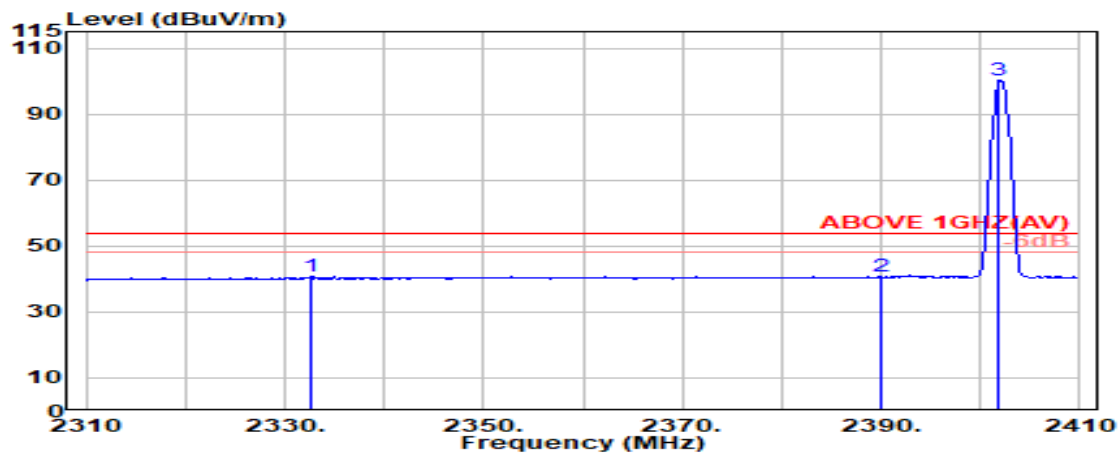
Tel: +886 2 26099301
Fax: +886 2 26099303

Mode	BT(GFSK)	Frequency	TX 2402MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2332.700	28.00	7.09	34.35	51.39	52.12	74.00	21.88	Peak
2390.000	28.02	7.13	34.36	49.19	49.98	74.00	24.02	Peak
@ 2402.200	28.01	7.14	34.37	101.54	102.32	---	---	Peak



Antenna at Vertical Polarization

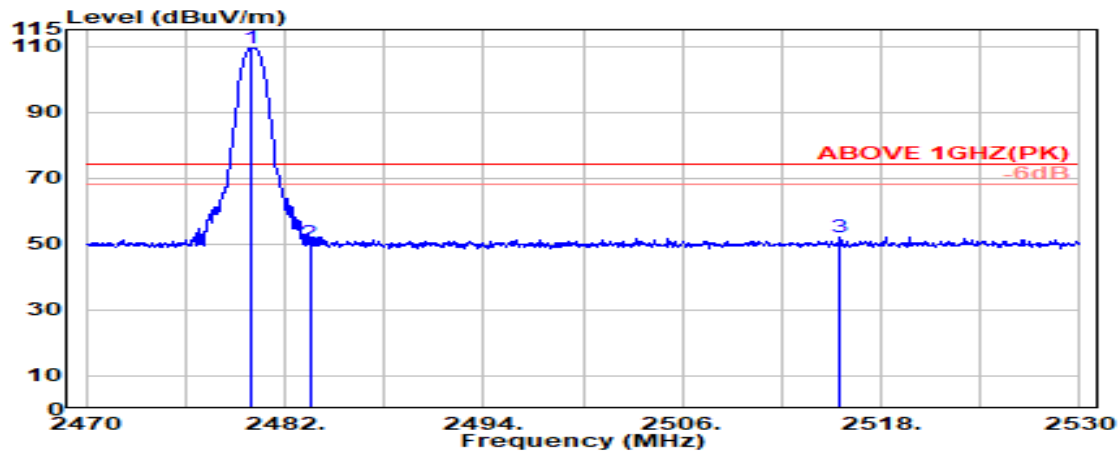
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2332.700	28.00	7.09	34.35	39.93	40.67	54.00	13.33	Average
2390.000	28.02	7.13	34.36	39.98	40.76	54.00	13.24	Average
@ 2401.800	28.01	7.14	34.37	99.35	100.13	---	---	Average

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

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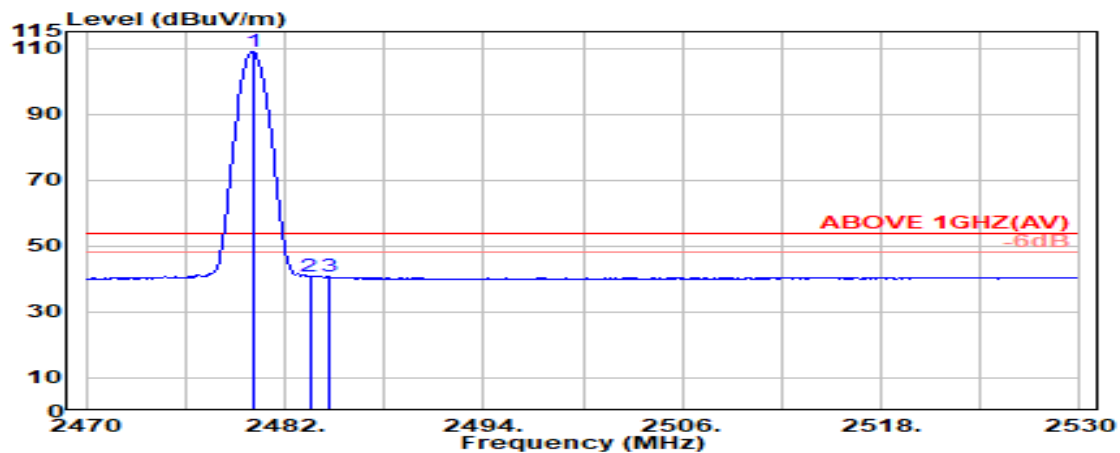
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Fax: +886 2 26099303

Mode	BT(GFSK)	Frequency	TX 2480MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2479.900	28.26	7.19	34.39	108.15	109.21	---	---	Peak
2483.500	28.27	7.19	34.39	49.16	50.23	74.00	23.77	Peak
2515.550	28.36	7.22	34.39	50.84	52.03	74.00	21.97	Peak



Antenna at Horizontal Polarization

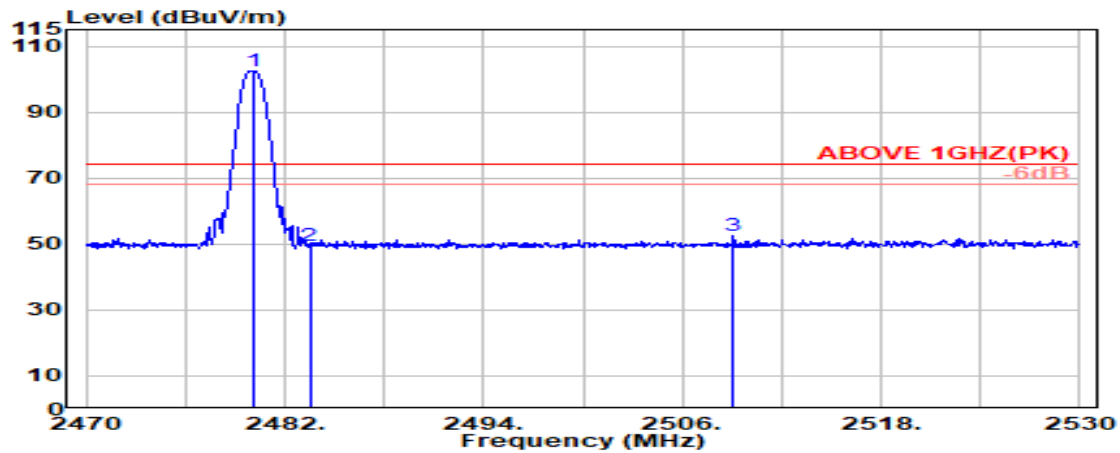
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2480.050	28.26	7.19	34.39	107.72	108.79	---	---	Average
2483.500	28.27	7.19	34.39	39.58	40.65	54.00	13.35	Average
2484.750	28.27	7.19	34.39	39.52	40.59	54.00	13.41	Average

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

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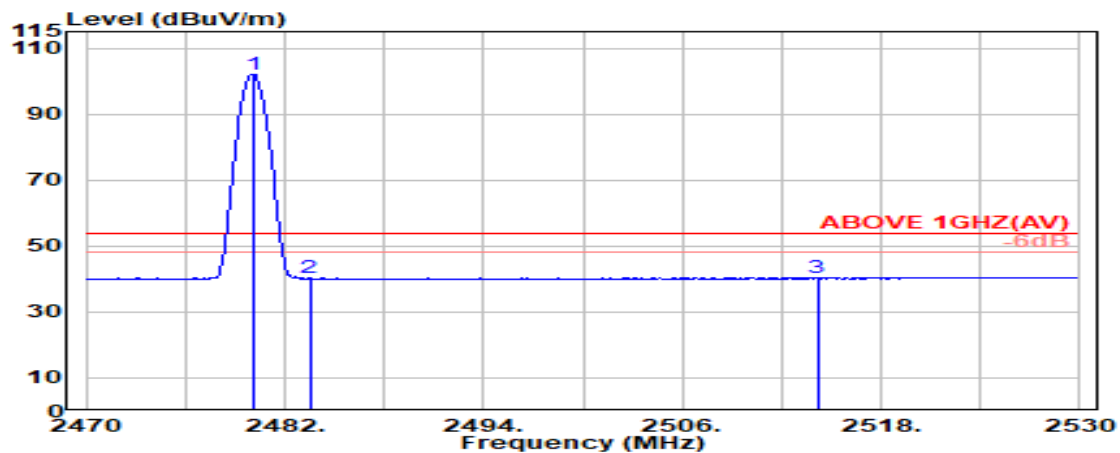
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Fax: +886 2 26099303

Mode	BT(GFSK)	Frequency	TX 2480MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2480.150	28.26	7.19	34.39	101.50	102.56	---	---	Peak
2483.500	28.27	7.19	34.39	48.54	49.61	74.00	24.39	Peak
2509.100	28.34	7.21	34.39	51.52	52.68	74.00	21.32	Peak



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2480.050	28.26	7.19	34.39	101.09	102.15	---	---	Average
2483.500	28.27	7.19	34.39	39.23	40.30	54.00	13.70	Average
2514.150	28.36	7.22	34.39	39.38	40.56	54.00	13.44	Average

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

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Tel: +886 2 26099301**Fax: +886 2 26099303****A.2.2 Emissions outside the frequency band**

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

● **Normal Mode**

Mode	Normal Mode	Frequency	---
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
3525.000	31.25	8.22	39.52	41.08	41.03	54.00	12.97	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
3525.000	31.25	8.22	39.52	42.02	41.97	54.00	12.03	Peak

● **BT Mode**

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

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4804.000	32.52	10.15	39.16	39.74	43.25	54.00	10.75	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4804.000	32.52	10.15	39.16	38.80	42.31	54.00	11.69	Peak

Mode	BT(8-DPSK)	Frequency	TX 2441MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4882.000	32.76	10.27	39.13	38.26	42.17	54.00	11.83	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4882.000	32.76	10.27	39.13	37.95	41.86	54.00	12.14	Peak

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

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4960.000	33.10	10.39	39.10	37.23	41.62	54.00	12.38	Peak

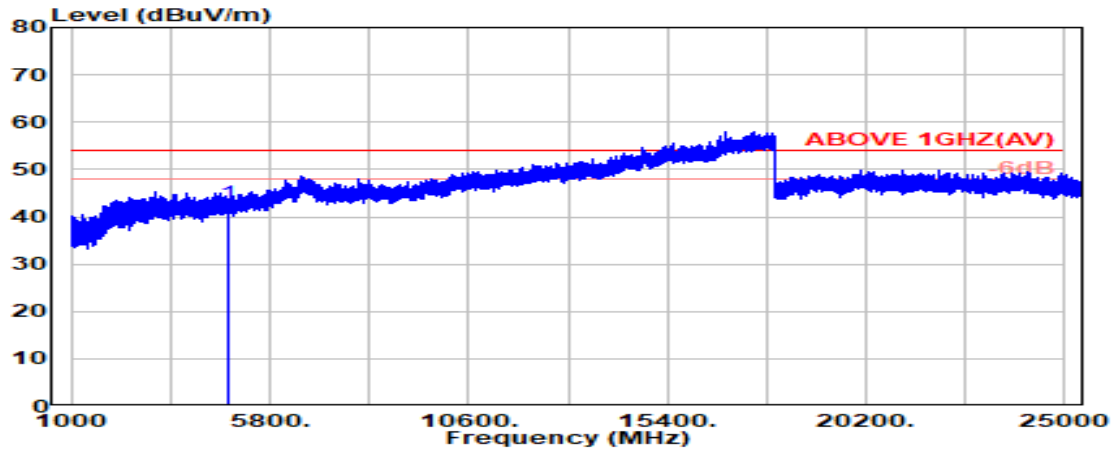
Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4960.000	33.10	10.39	39.10	38.61	43.00	54.00	11.00	Peak

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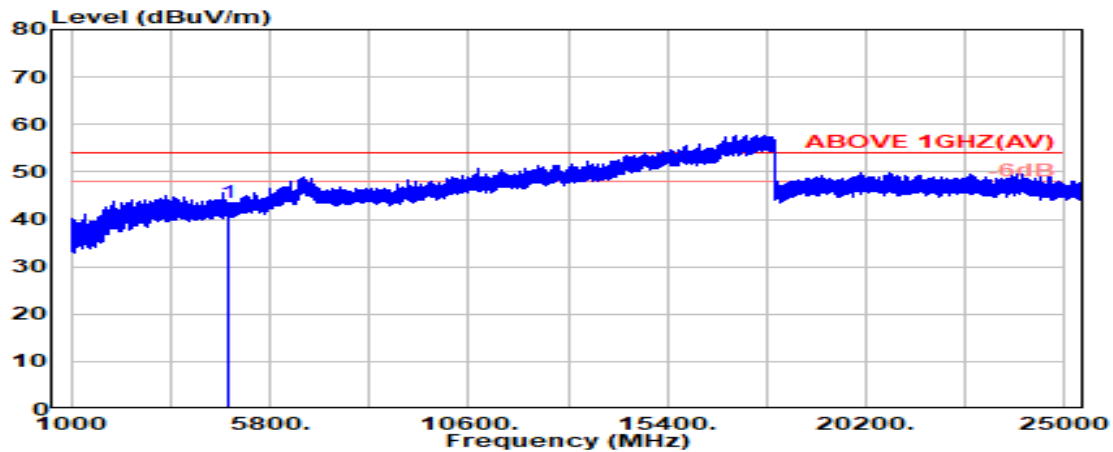
Tel: +886 2 26099301
Fax: +886 2 26099303

Mode	BT (GFSK)	Frequency	TX 2402MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4804.000	32.52	10.15	39.16	39.23	42.74	54.00	11.26	Peak



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4804.000	32.52	10.15	39.16	39.81	43.32	54.00	10.68	Peak

Mode	BT (GFSK)	Frequency	TX 2441MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4882.000	32.76	10.27	39.13	38.65	42.56	54.00	11.44	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4882.000	32.76	10.27	39.13	39.00	42.91	54.00	11.09	Peak

Mode	BT (GFSK)	Frequency	TX 2480MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4960.000	33.10	10.39	39.10	38.09	42.48	54.00	11.52	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4960.000	33.10	10.39	39.10	38.37	42.76	54.00	11.24	Peak

A.2.3 Emissions in Non-restricted Frequency Bands

Pursuant to ANSI C63.10 that emission levels below the FCC 15.209(a)/
RSS-Gen Section 7.4.3 table 4 & 5 general radiated emissions limits is not required.

A.3 20dB BANDWIDTH

Test Date	2026/07/07	Temp./Hum.	22°C/44%
Cable Loss	0.5dB	Tested By	Kevin Yao
Test Voltage	DC 3.8V (Via Battery)		

A.3.1 20dB Bandwidth Result

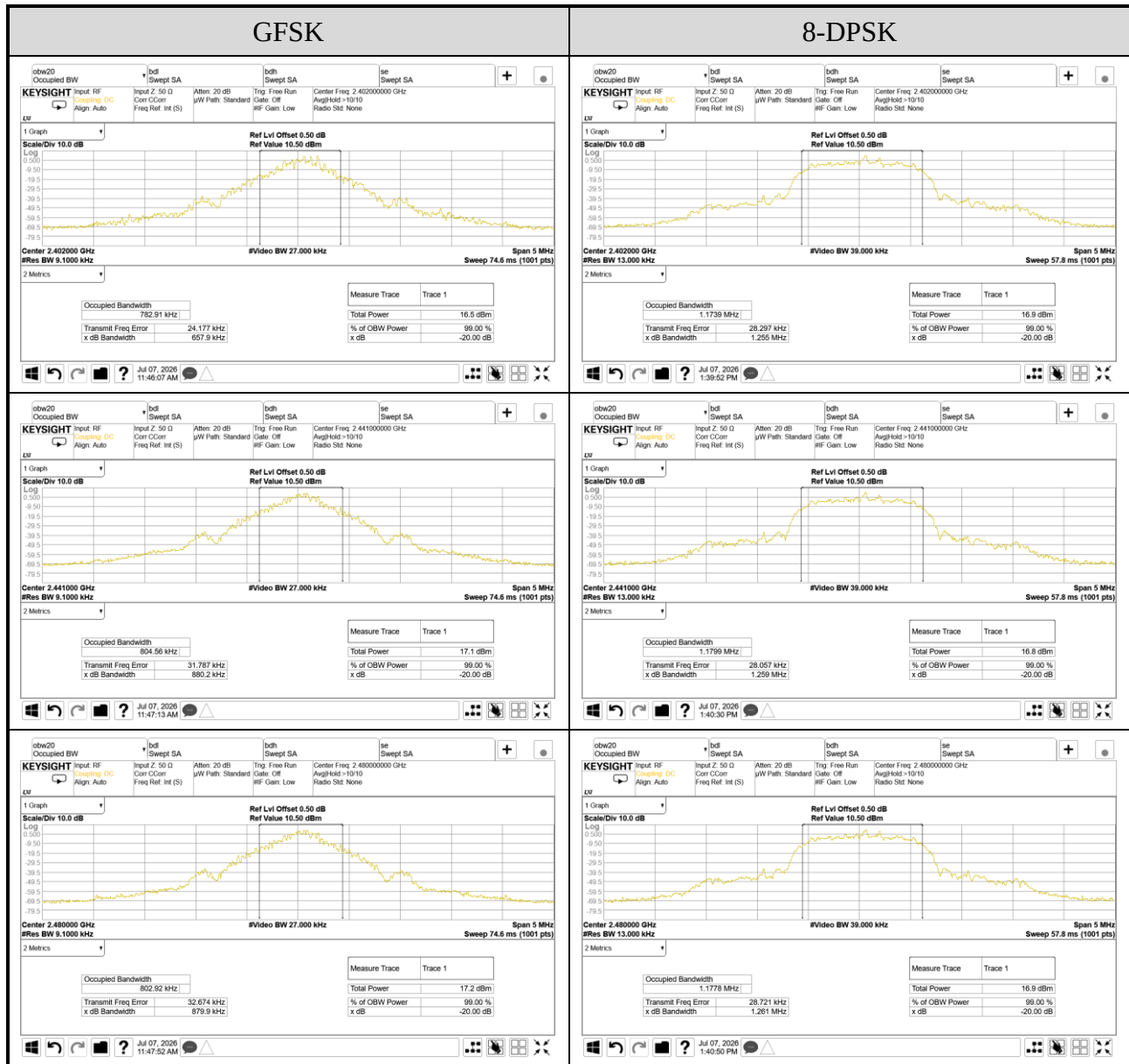
Mode	Centre Frequency (MHz)	20dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz) (Reference only)	2/3 (20dB Bandwidth)
GFSK	2402	0.6759	0.78291	0.451
	2441	0.8802	0.80456	0.587
	2480	0.8799	0.80292	0.587
8-DPSK	2402	1.255	1.1739	0.837
	2441	1.259	1.1799	0.839
	2480	1.261	1.1778	0.841

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

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A.3.2 Measurement Plots

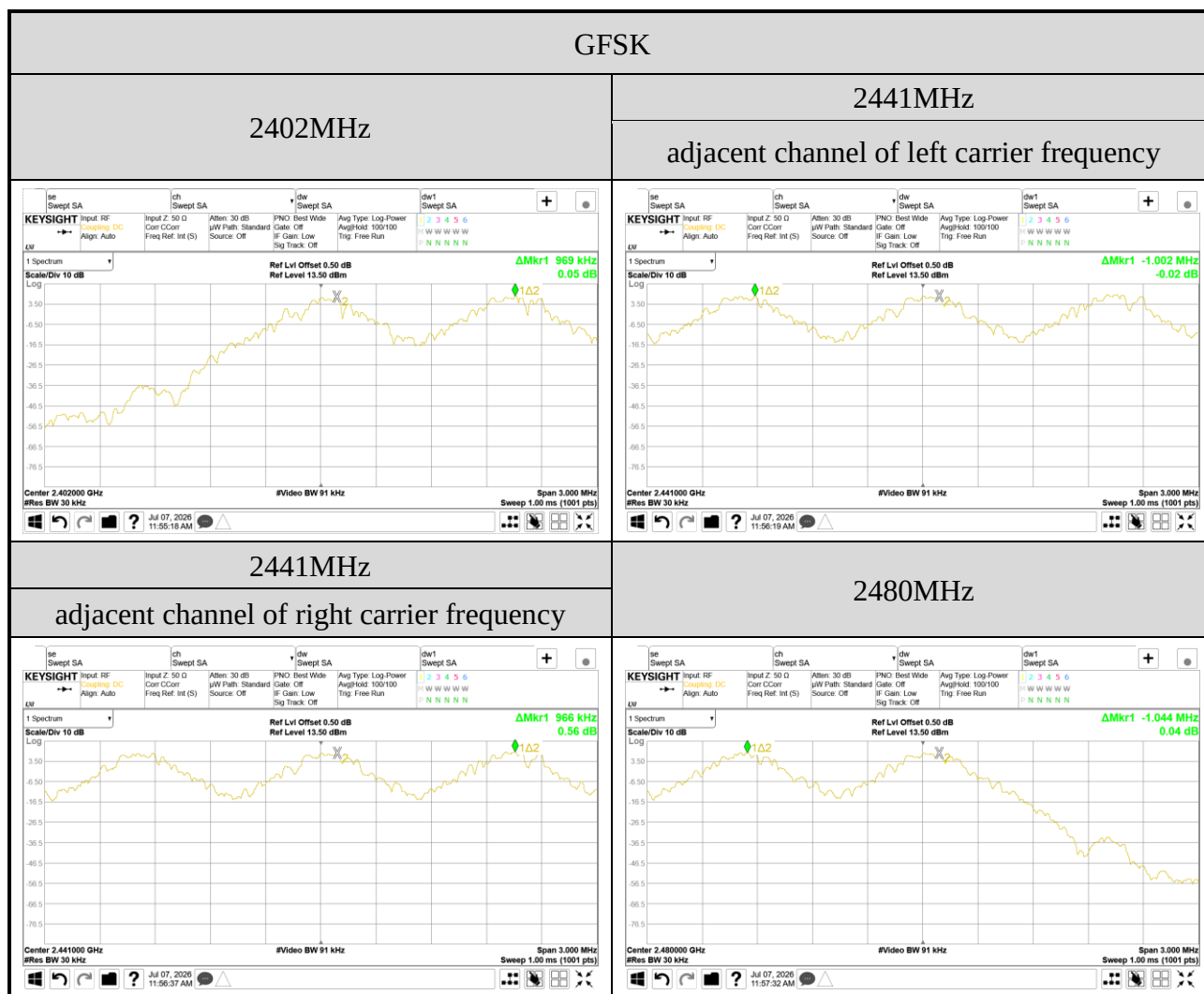


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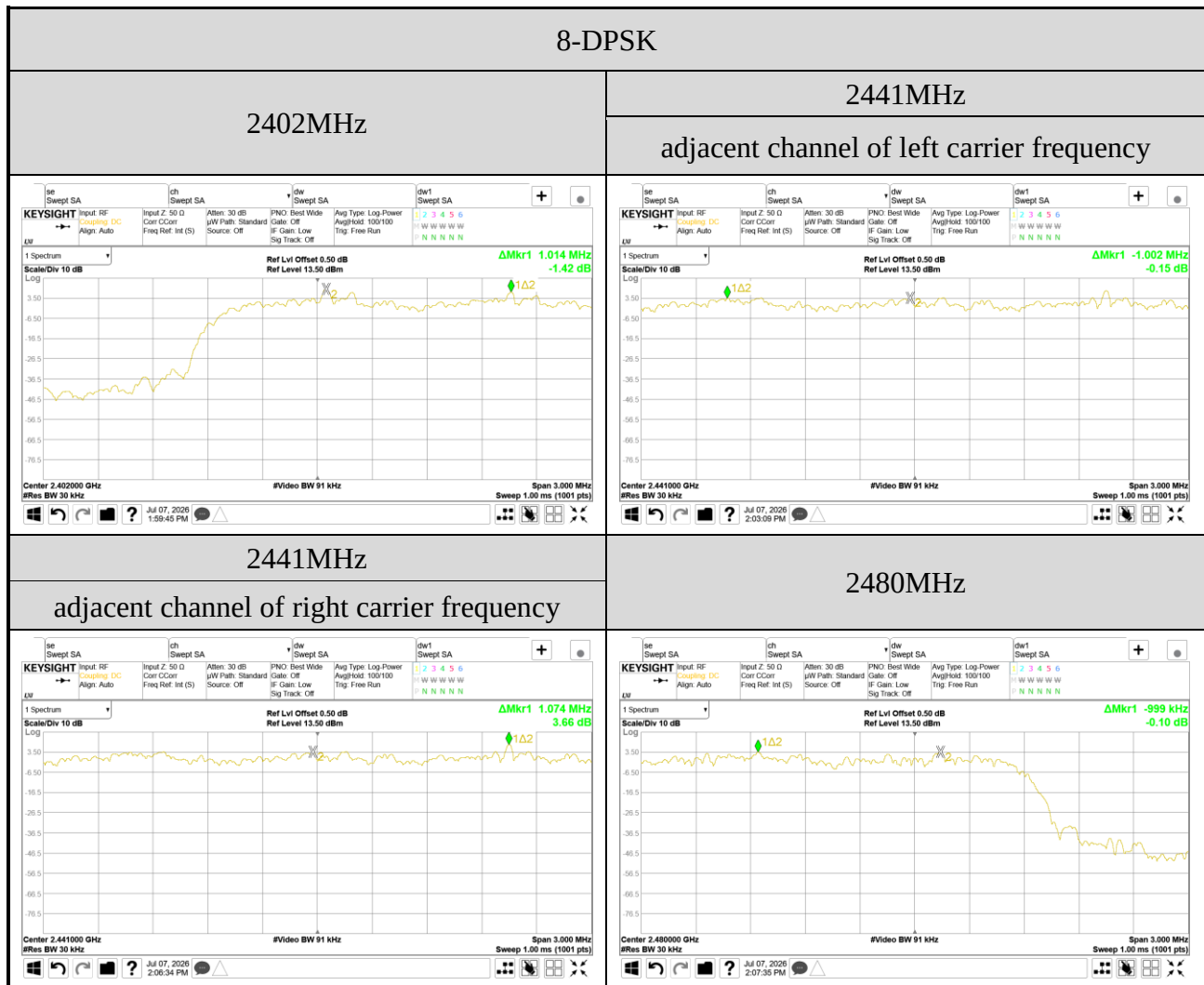
A.4 CARRIER FREQUENCY SEPARATION

Test Date	2026/07/07	Temp./Hum.	22°C/44%
Cable Loss	0.5dB	Tested By	Kevin Yao
Test Voltage	DC 3.8V (Via Battery)		



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A.5 TIME OF OCCUPANCY

Test Date	2026/07/07	Temp./Hum.	22°C/44%
Cable Loss	0.5dB	Tested By	Kevin Yao
Test Voltage	DC 3.8V (Via Battery)		

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	9	0.360	102.384	<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 9 transmission appearance,the longest time of occupancy is

9 transmission* 31.6 seconds* 0.360 ms= 102.384 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	2441	DH1	10	0.360	113.760	<400
		DH3	6	1.635	309.996	<400
		DH5	3	2.850	270.180	<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* 0.360 ms= 113.760 ms (<400ms)

DH3 Mode

For each second of 6 transmission appearance,the longest time of occupancy is

6 transmission* 31.6 seconds* 1.635 ms= 309.996 ms (<400ms)

DH5 Mode

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

3 transmission* 31.6 seconds* 2.850 ms= 270.180 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	0.360	113.760	<400
		DH3	5	1.620	255.960	<400
		DH5	3	2.850	270.180	<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* 0.360 ms= 113.760 ms (<400ms)

DH3 Mode

For each second of 5 transmission appearance, the longest time of occupancy is
5 transmission* 31.6 seconds* 1.620 ms= 255.960 ms (<400ms)

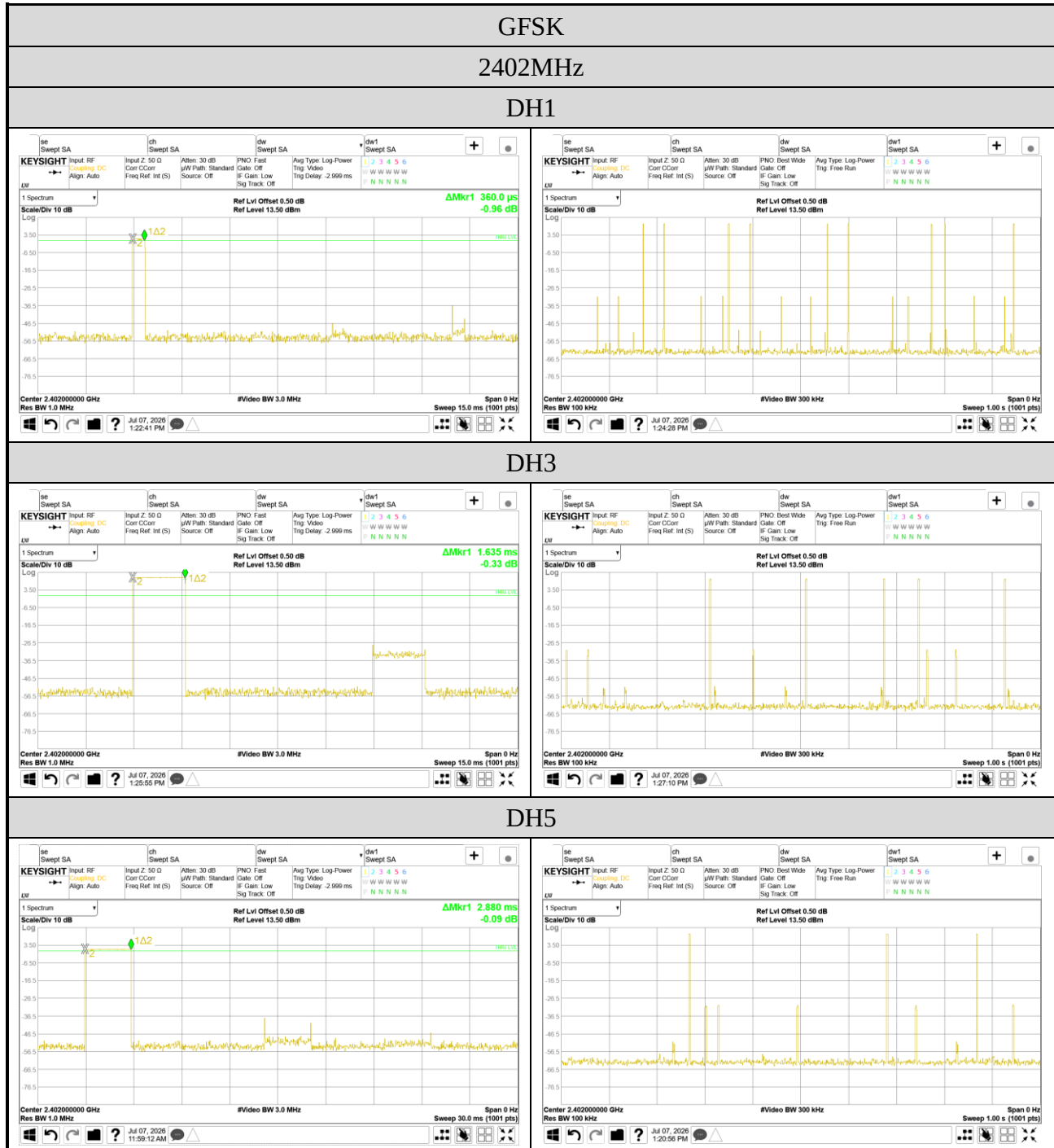
DH5 Mode

For each second of 3 transmission appearance, the longest time of occupancy is
3 transmission* 31.6 seconds* 2.850 ms= 270.180 ms (<400ms)

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● Measurement Plots



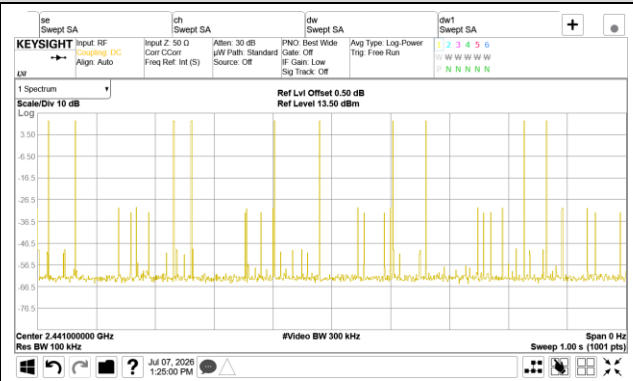
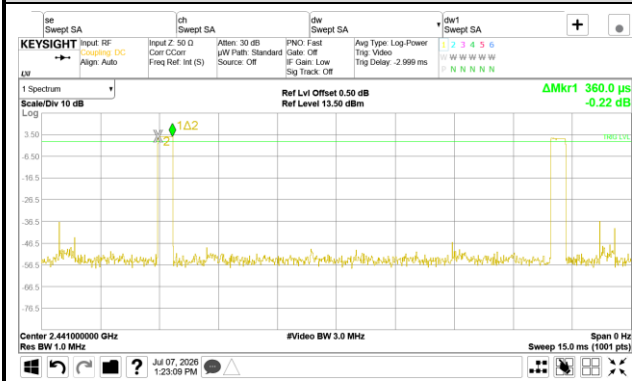
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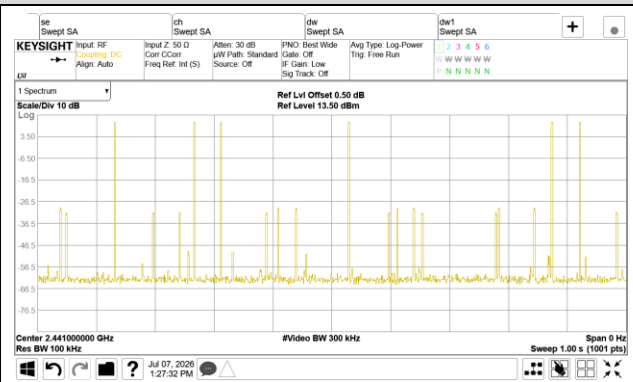
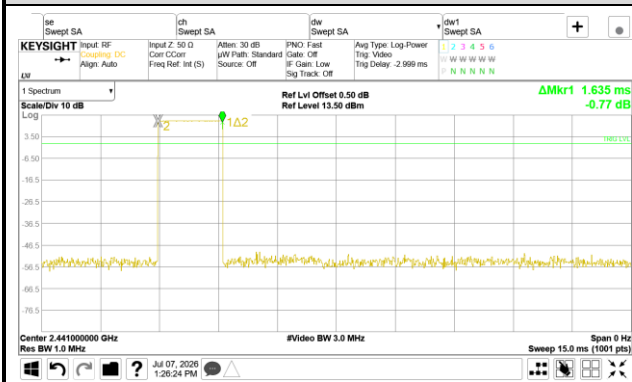
GFSK

2441MHz

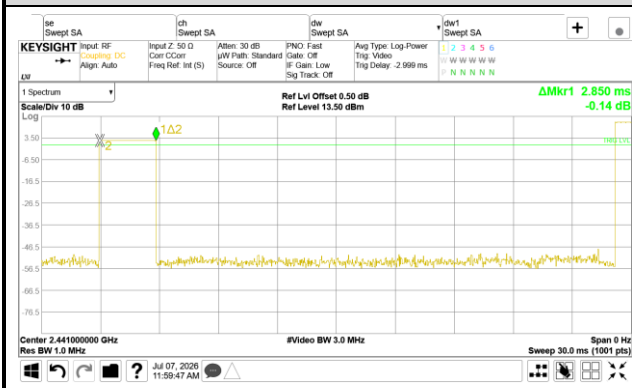
DH1



DH3



DH5



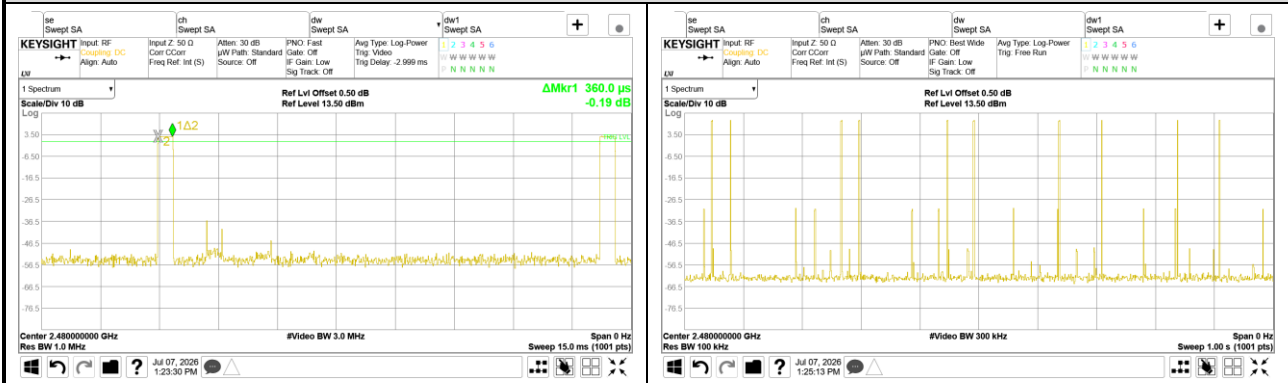
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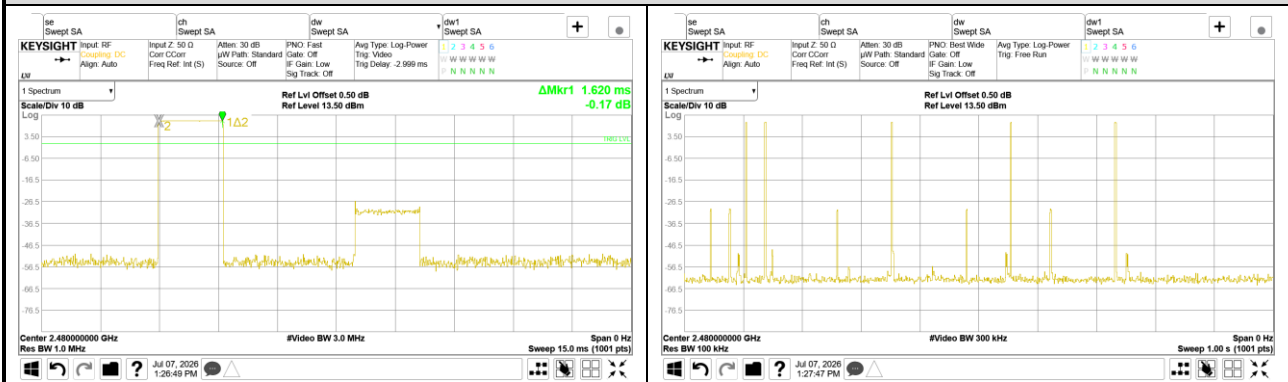
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2480MHz

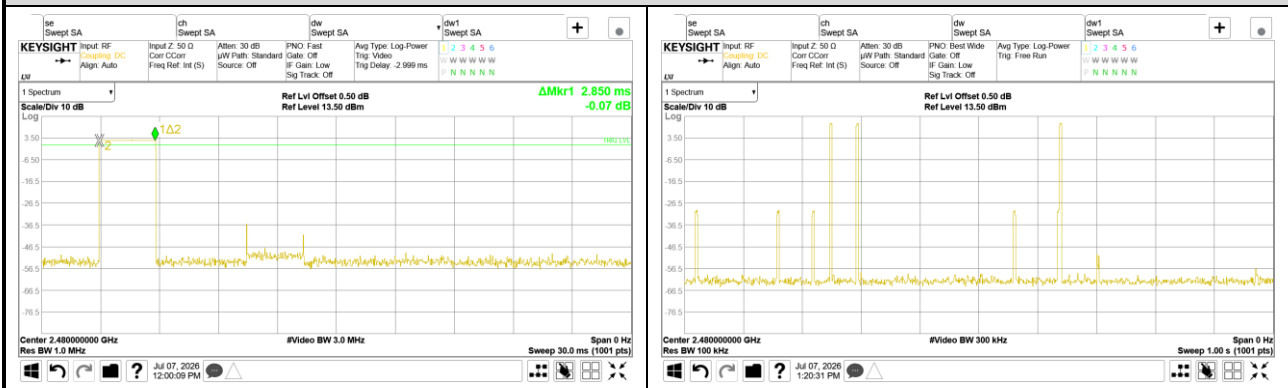
DH1



DH3



DH5



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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)
8-DPSK	2402	3DH1	9	0.370	105.228	<400
		3DH3	4	1.620	204.768	<400
		3DH5	4	2.880	364.032	<400

Observation Period:

79 channels* 0.4 seconds= 31.6 seconds

3DH1 Mode

For each second of 9 transmission appearance, the longest time of occupancy is
9 transmission* 31.6 seconds* 0.370 ms= 105.228 ms (<400ms)

3DH3 Mode

For each second of 4 transmission appearance, the longest time of occupancy is
4 transmission* 31.6 seconds* 1.620 ms= 204.768 ms (<400ms)

3DH5 Mode

For each second of 4 transmission appearance, the longest time of occupancy is
4 transmission* 31.6 seconds* 2.880 ms= 364.032 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	0.370	116.920	<400
		3DH3	5	1.620	255.960	<400
		3DH5	4	2.880	364.032	<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* 0.370 ms= 116.920 ms (<400ms)

3DH3 Mode

For each second of 5 transmission appearance, the longest time of occupancy is
5 transmission* 31.6 seconds* 1.620 ms= 255.960 ms (<400ms)

3DH5 Mode

For each second of 4 transmission appearance, the longest time of occupancy is
4 transmission* 31.6 seconds* 2.880 ms= 364.032 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)
8-DPSK	2480	3DH1	10	0.370	116.920	<400
		3DH3	4	1.620	204.768	<400
		3DH5	4	2.860	361.504	<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 * 0.370 ms = 116.920 ms (<400ms)

3DH3 Mode

For each second of **4** transmission appearance, the longest time of occupancy is

4 transmission * 31.6 seconds * 1.620 ms = 204.768 ms (<400ms)

3DH5 Mode

For each second of **4** transmission appearance, the longest time of occupancy is

4 transmission * 31.6 seconds * 2.860 ms = 361.504 ms (<400ms)

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● Measurement Plots



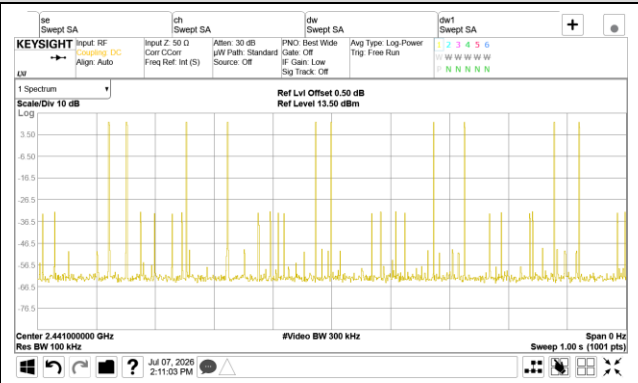
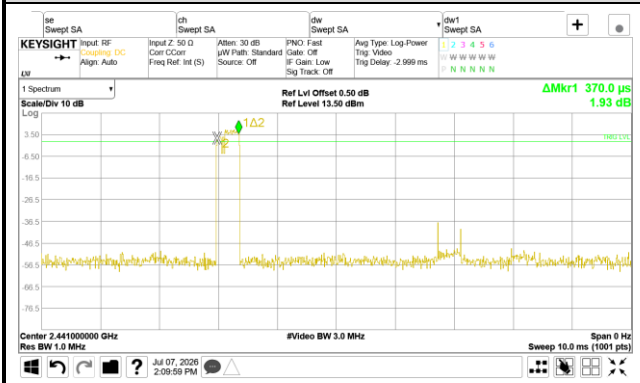
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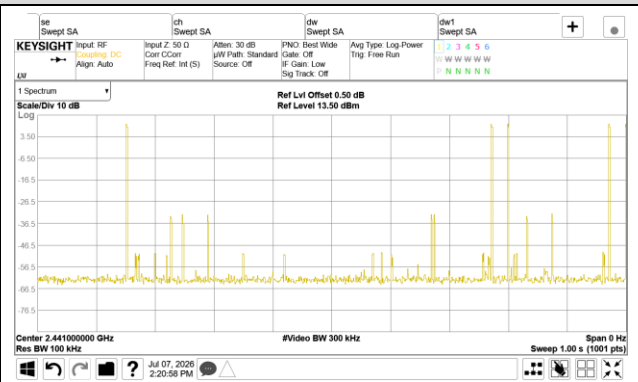
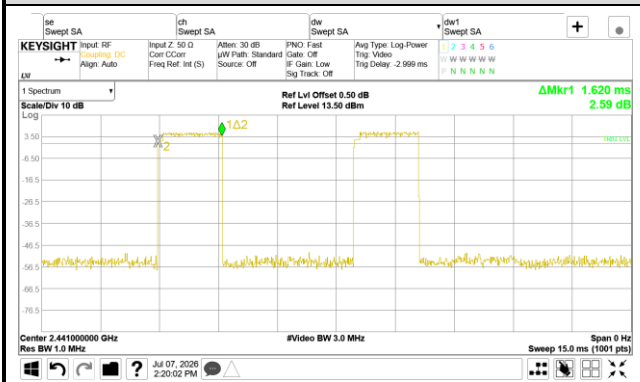
8-DPSK

2441MHz

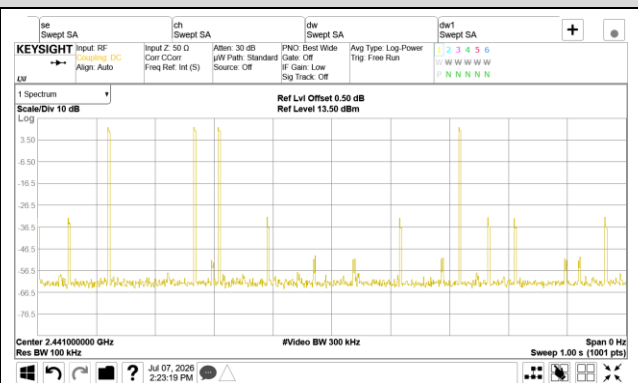
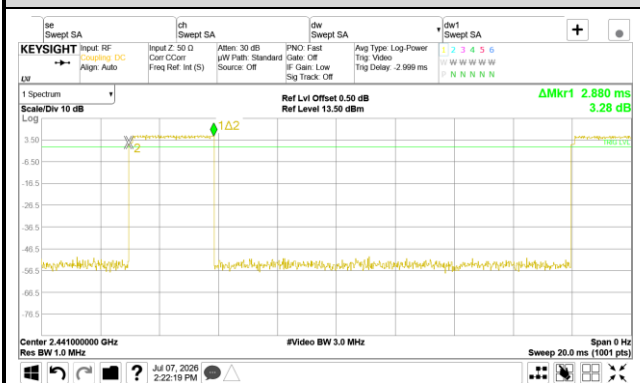
3DH1



3DH3



3DH5



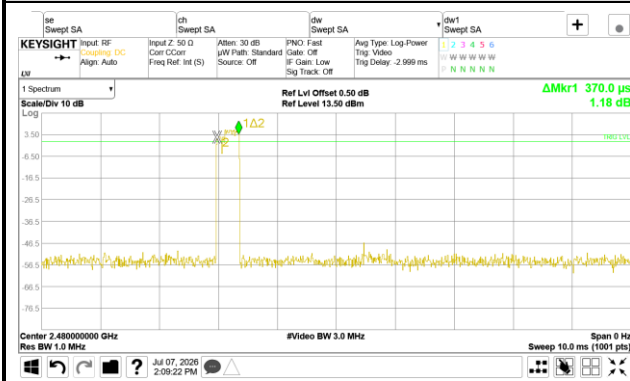
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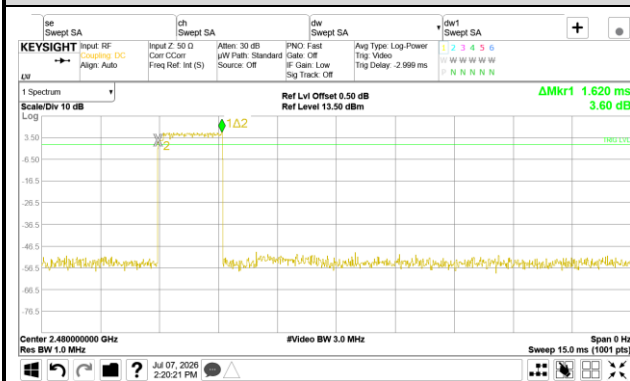
8-DPSK

2480MHz

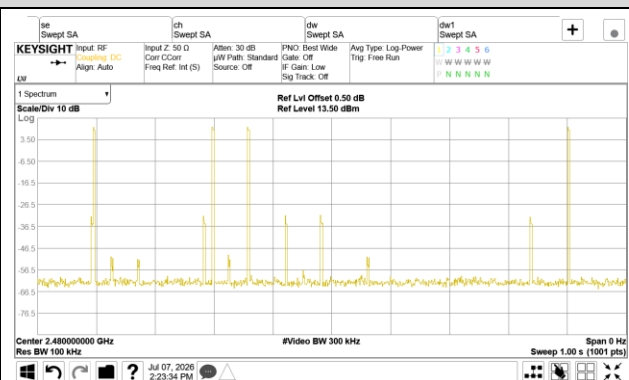
3DH1



3DH3



3DH5

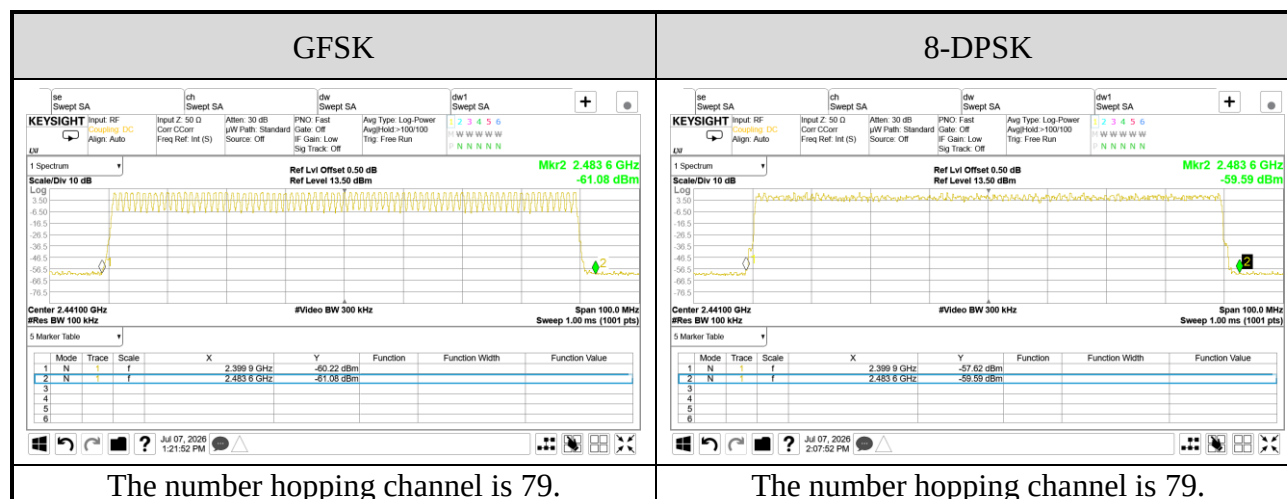


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A.6 NUMBER OF HOPPING CHANNELS

Test Date	2026/07/07	Temp./Hum.	22°C/44%
Cable Loss	0.5dB	Tested By	Kevin Yao
Test Voltage	DC 3.8V (Via Battery)		



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A.7 MAXIMUM PEAK OUTPUT POWER

Test Date	2026/07/01	Temp./Hum.	24°C/56%
Cable Loss	0.5dB	Tested By	Kevin Yao
Test Voltage	DC 3.8V (Via Battery)		

A.7.1 Maximum Peak Output Power

Antenna	Centre Frequency (MHz)	Peak Output Power (dBm)	Antenna Gain (dBi)	E.I.R.P ^{Note 2}	Limit
GFSK	2402	11.08	3.13	14.21	<30dBm (Maximum Peak Output Power) <36dBm (E.I.R.P)
	2441	11.35	3.13	14.48	
	2480	11.24	3.13	14.40	
8-DPSK	2402	13.18	3.13	16.31	
	2441	13.29	3.13	16.42	
	2480	13.28	3.13	16.41	

Note: 1. The results have been included cable loss.

2. E.I.R.P.= The Max Peak Output Power (dBm)+Antenna Gain (dBi).

A.7.2 Average Output Power (Reporting only)

Antenna	Centre Frequency (MHz)	Average Output Power(dBm)	Duty cycle factor (dB) 10log (1/x)	Total Average Output Power(dBm)	Antenna Gain (dBi)	E.I.R.P ^{Note 2}
GFSK	2402	9.93	1.135	11.07	3.13	14.20
	2441	10.19	1.135	11.33	3.13	14.46
	2480	10.12	1.135	11.26	3.13	14.39
8-DPSK	2402	9.31	1.135	10.45	3.13	13.58
	2441	9.45	1.135	10.59	3.13	13.72
	2480	9.41	1.135	10.55	3.13	13.68

Note: 1. The results have been included cable loss.

2. E.I.R.P.= The total Average output power (dBm)+Antenna Gain (dBi).

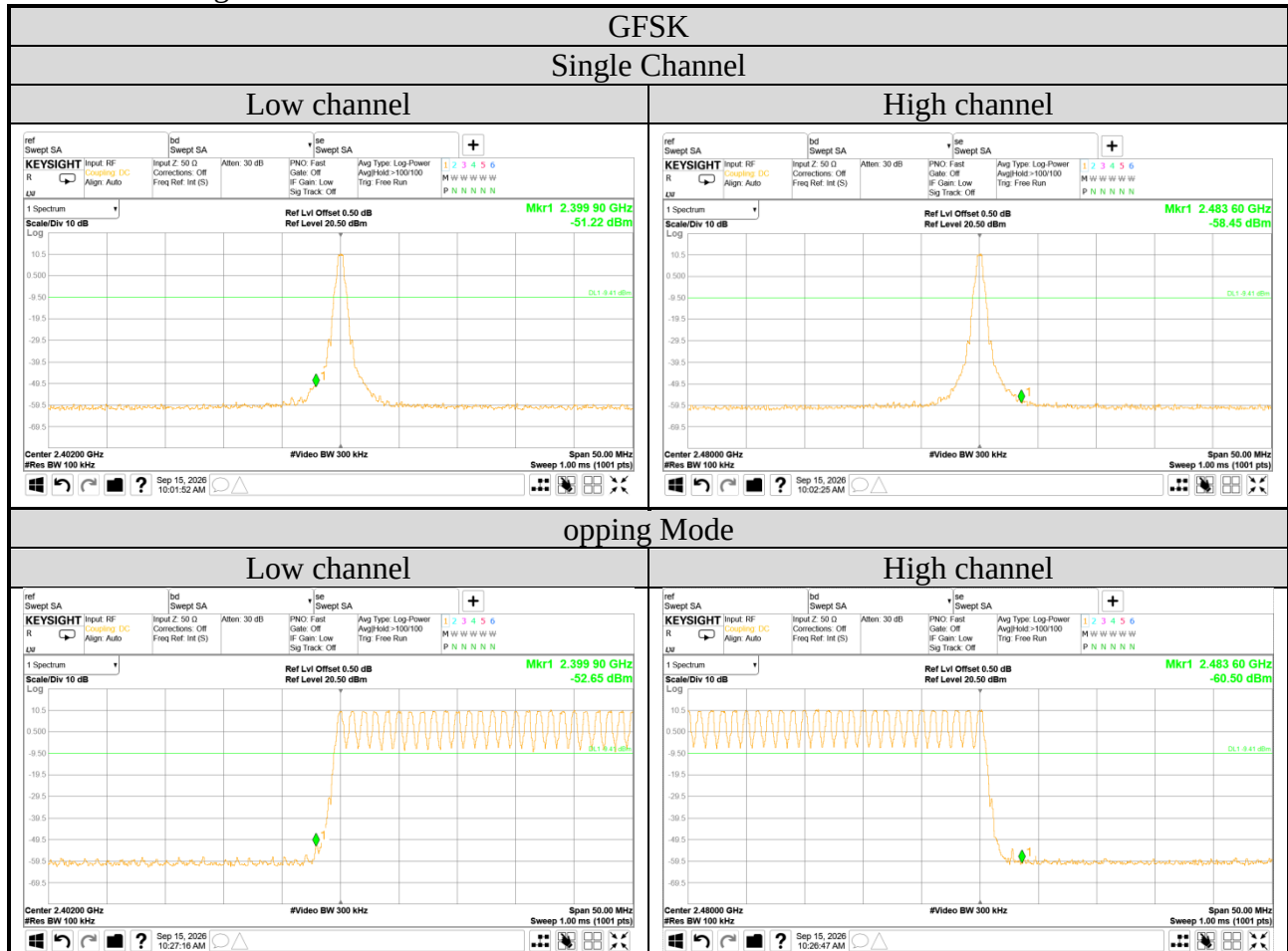
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A.8 EMISSION LIMITATIONS MEASUREMENT

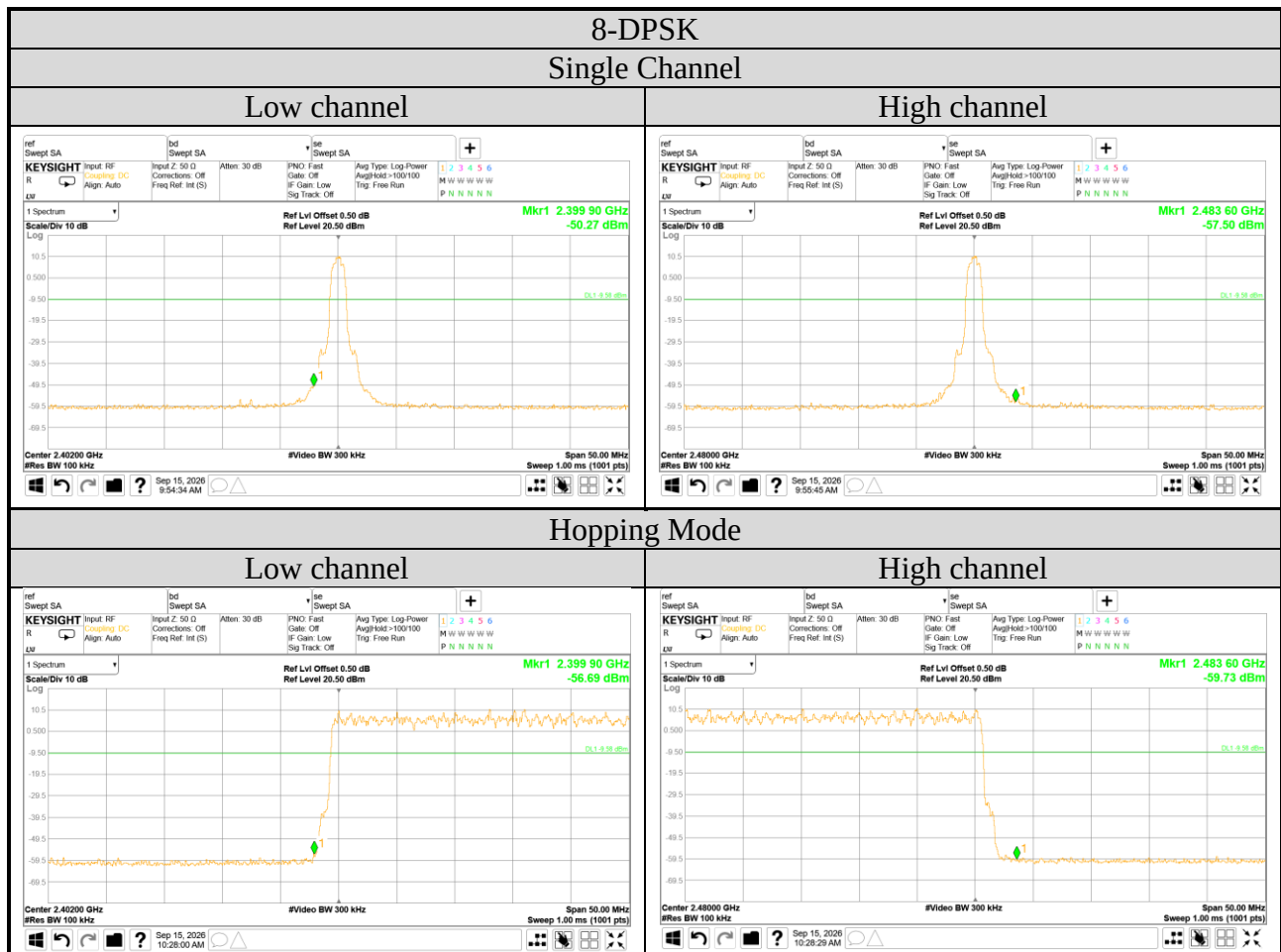
Test Date	2026/09/15	Temp./Hum.	23°C/51%
Cable Loss	0.5dB	Tested By	Kevin Yao
Test Voltage	DC 3.8V (Via Battery)		

A.8.1 Band Edge



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A.8.2 Spurious Emission



Note: All results have been included cable loss.