

Test Report

Product: 360 Degree Intelligent Audio & Video
Portable All-in-One Device
Trade Mark: That Dragonfly
Model Number: GP-ONE
FCC ID: 2BSPQ-GP-ONE

Prepared for

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Prepared by

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TEST RESULT CERTIFICATION

Applicant's Name : Dragonfly Intelligent Vision and Technology (Shenzhen) Co. ,
Ltd.
Room 809B, 8F, Building 7, Shenzhen Bay Science and
Address : Technology Eco-park, Nanshan District, Shenzhen, Guangdong
Province, P.R.China
Manufacturer's Name : Dragonfly Intelligent Vision and Technology (Shenzhen) Co. ,
Ltd.
Room 809B, 8F, Building 7, Shenzhen Bay Science and
Address : Technology Eco-park, Nanshan District, Shenzhen, Guangdong
Province, P.R.China

Product description

Product name : 360 Degree Intelligent Audio & Video Portable All-in-One Device
Model Number : GP-ONE
Standards : FCC Part 15.247
IEEE/ANSI C63.10-2020
Test procedure : KDB 558074 D01 15.247 Meas Guidance v05r02

This device described above has been tested by Shenzhen HongBiao Certification& Testing Co.,
Ltd and the test results show that the equipment under test (EUT) is in compliance with the EMC
requirements. And it is applicable only to the tested sample identified in the report.

Date of Test

Date (s) of performance of tests : Sept. 18, 2025~Oct. 17, 2025

Test Result..... : **Pass**

Testing Engineer :

Zoe su

(Z o e S u)

Technical Manager :

Ming Liu

(Ming Liu)

Authorized Signatory :

Leo Su

(L e o S u)

Revision History

[illegible]

1 General Description

1.1 Description of EUT

Product name:	360 Degree Intelligent Audio & Video Portable All-in-One Device
Model name:	GP-ONE
Series Model:	GP-MAX, GP-8A, GP-8B, GP-8C, GP-8D, GP-PRO
Different of series model:	All the models are the same circuit and module, except the model No..
Operation frequency:	2402-2480MHz
Modulation type:	GFSK, $\pi/4$ -DQPSK, 8DPSK
Bit Rate of transmitter:	1 Mbps, 2Mbps, 3Mbps
Antenna type:	PCB Antenna
Antenna gain:	2.71dBi
Max. output power:	2.54dBm
Hardware version:	GP-8A_MIAN_VS2828_V2
Software version:	VGP-8A_V2.0.0
Battery:	Base: DC 3V Camera: DC 3.85V, 10000mAh, 19.25Wh
Power supply:	Input: DC 5V/2A
Adapter information:	N/A

1.2 Test Mode

Test Mode	Channel	Frequency (MHz)
1	00	2402
2	39	2441
3	78	2480

1.3 Operation Channel List

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
00	2402	27	2429	54	2456
01	2403	28	2430	55	2457
02	2404	29	2431	56	2458

03	2405	30	2432	57	2459
04	2406	31	2433	58	2460
05	2407	32	2434	59	2461
06	2408	33	2435	60	2462
07	2409	34	2436	61	2463
08	2410	35	2437	62	2464
09	2411	36	2438	63	2465
10	2412	37	2439	64	2466
11	2413	38	2440	65	2467
12	2414	39	2441	66	2468
13	2415	40	2442	67	2469
14	2416	41	2443	68	2470
15	2417	42	2444	69	2471
16	2418	43	2445	70	2472
17	2419	44	2446	71	2473
18	2420	45	2447	72	2474
19	2421	46	2448	73	2475
20	2422	47	2449	74	2476
21	2423	48	2450	75	2477
22	2424	49	2451	76	2478
23	2425	50	2452	77	2479
24	2426	51	2453	78	2480
25	2427	52	2454	--	--
26	2428	53	2455	--	--

1.4 Test Setup

See photographs of the test setup in the report for the actual setup and connections between EUT and support equipment.

1.5 Power setting configuration parameters

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters.

Test software Version		FCC_assist_1.0.2.2	
Frequency	2402 MHz	2441 MHz	2480 MHz
Parameters	Default	Default	Default
RF cable			
Description	Connector	Length	Supplied by
Antenna Cable	SMA	10cm	Applicant

Note: Disclaimer: the loss of RF cable is too small and can be ignored.

1.6 Ancillary Equipment

Equipment	Model	S/N	Manufacturer
Notebook	BDR-WDH	A3RQPM242 0002411	Honor Terminal Co., Ltd.

Note: The laptop is used to assist the RF test. In order to prevent the laptop from causing unnecessary impact on the test, the laptop will be removed from the test environment after the EUT successfully transmits at a fixed frequency using the laptop.

2 Summary of Test Result

No.	Standard Section	Test Item	Result	Remark
1	15.203	Antenna requirement	Pass	
2	15.207	Conducted emission	Pass	
3	15.247(d)	Band edge	Pass	
4	15.205/15.209	Spurious emission	Pass	
5	15.247(b)(1)	Peak output power	Pass	
6	15.247(a)(1)	20dB occupied bandwidth	Pass	
7	15.247(a)(1)	Carrier Frequencies Separation	Pass	
8	15.247(a)(1)	Hopping channel number	Pass	
9	15.247(a)(1)	Dwell time	Pass	
10	15.247(d)	Spurious RF Conducted Emissions	Pass	

3 Test Facilities and Accreditations

3.1 Test Laboratory

Test Site	Shenzhen HongBiao Certification& Testing Co., Ltd
Test Site Location	Room 102, 201, Building 2, Yuanwanggu RFID Industrial Park, Tongguan Road, Tianliao Community, Yutang Street, Guangming District, Shenzhen, China
Telephone:	(86-755) 2998 9321
Fax:	(86-755) 2998 5110
FCC Registration No.:	CN1341
A2LA Certificate No.:	6765.01

3.2 Environmental Conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	15°C~35°C
Relative Humidity:	20%~75%
Air Pressure:	98kPa~101kPa

3.3 Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

The data and results quoted in this document are true and accurate values, and uncertainties are not involved in the calculations.

In addition, components and mass production processes that are similar to testing equipment may introduce additional deviations, and the manufacturer is solely responsible for the continued compliance of the equipment.

Measurement Frequency Range	U, (dB)	Note
RF frequency	2×10^{-5}	
RF power, conducted	± 0.57 dB	
Conducted emission(150kHz~30MHz)	± 2.5 dB	
Radiated emission(9kHz-30MHz)	± 2.5 dB	
Radiated emission(30MHz~1GHz)	± 4.2 dB	
Radiated emission (above 1GHz)	± 4.7 dB	
Occupied Bandwidth	$\pm 3\%$	
Temperature	± 1 degree	
Humidity	± 5 %	

3.4 Test Software

Software name	Manufacturer	Model	Version
Conducted Emission test Software	Farad	EZ-EMC	EMC-CON 3A1.1+
Radiated Emission test Software	Farad	EZ-EMC	FA-03A2
RF Test System	MWRF	MTS 8310	2.0.0.0

4 List of Test Equipment

Radiation emission							
Item	Equipment No.	Equipment name	Manufacturer	Model	Serial No.	Calibration date	Due date
1	HB-E001	Horn Antenna	Schwarzbeck	BBHA 9120D	02592	2024-05-18	2026-05-17
2	HB-E002	Biconical log-periodic composite antenna	Schwarzbeck	VULB 9168	01340	2024-05-18	2026-05-17
3	HB-E003	SHF-EHF Horn	Schwarzbeck	BBHA 9170	01193	2024-05-18	2026-05-17
4	HB-E005	Preamplifier	Noyetec	LAN-0118	NYCM1420102	2025-05-07	2026-05-06
5	HB-E006	Preamplifier	Noyetec	LAN-1840	NYCM1420103	2025-05-07	2026-05-06
6	HB-E007	EMI TEST RECEIVER	R&S	ESR7	102520	2025-05-07	2026-05-06
7	HB-E009	POSITINAL COTROLLE R	Noyetec	N/A	N/A	/	/
8	HB-E013	RF switch	Noyetec	NY-RF4	NY0CM1420204	/	/
9	HB-E066	Illuminance Tester	TASI	TA8121	N/A	2025-05-13	2026-05-12
10	HB-E075	Active loop antenna	Schwarzbeck	FMZB 1519B	1519B-245	2024-05-18	2026-05-17
11	HB-E076	Preamplifier	Hewlett Packard	8447D	1937A02278	2025-05-07	2026-05-06
Conduction emission							
Item	Equipment No.	Equipment name	Manufacturer	Model	Serial No.	Calibration date	Due date
1	HB-E014	4 Path V-LISN	Schwarzbeck	NNLK 8121	00770	2025-05-07	2026-05-06
2	HB-E015	Pulse Limiter	Schwarzbeck	VTSD 9561-F	00949	2025-05-07	2026-05-06
3	HB-E016	Absorb clamp	ZHINAN	ZN23201	N/A	2025-05-10	2026-05-09
4	HB-E059	Attenuator	Xianghua	TS2-6-1	220215166	2025-05-10	2026-05-09
5	HB-E069	EMI TEST RECEIVER	R&S	ESCI	N/A	2025-05-07	2026-05-06

RF							
Item	Equipment No.	Equipment name	Manufacturer	Model	Serial No.	Calibration date	Due date
1	HB-E041	MXG Anaioq Signal Generator	Agilent	N5181A	MY47070421	2025-05-07	2026-05-06
2	HB-E042	WIDEBAND RADIO COMMUNICATION TESTER	R&S	CMW500	132108	2025-05-08	2026-05-07

3	HB-E043	MXG Anaio Signal Generator	Agilent	N5182A	US46240335	2025-05-08	2026-05-07
4	HB-E044	Signal& spectrum Analyzer	R&S	FSV3044	101264	2025-05-07	2026-05-06
5	HB-E045	RF Control Box	Noyetec	NY100-R FCB	N/A	2025-05-08	2026-05-07
6	HB-E058	Thermometer Clock Humidity Monitor	N/A	HTC-1S	N/A	2025-05-09	2026-05-08

Note: the calibration interval of the above test instruments is 12&24 months and the calibrations are traceable to international system unit (SI).

5 Test Item And Results

5.1 Antenna Requirement

5.1.1 Standard Requirement

15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device

5.1.2 Test Result

The EUT antenna is PCB Antenna. It comply with the standard requirement. In case of replacement of broken antenna the same antenna type must be used.

5.2 Conducted Emission

5.2.1 Limits

Limits – Class B		
Frequency (MHz)	Limit (dB μ V)	
	Quasi-Peak	Average
0.15 to 0.5	66 to 56*	56 to 46*
0.5 to 5	56	46
5 to 30	60	50
Note: 1. the tighter limit applies at the band edges. 2. the limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.		

5.2.2 Test Procedures

a) EUT Operating Conditions

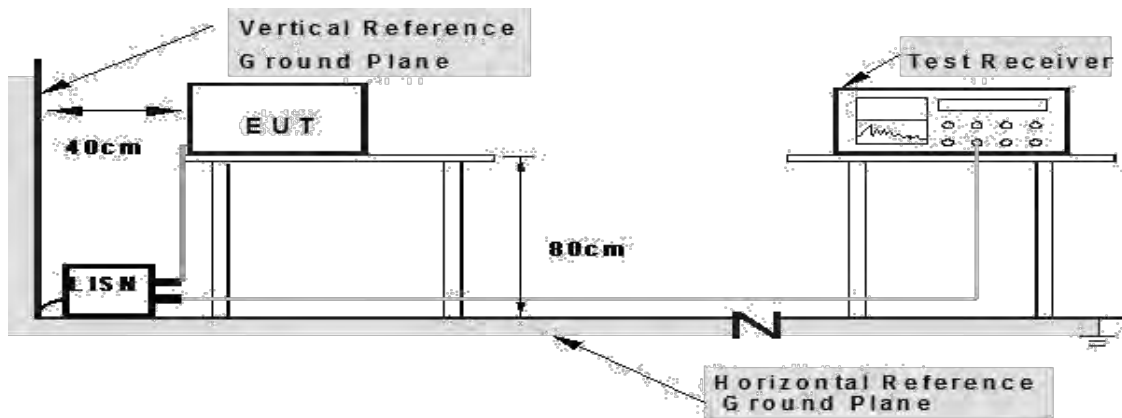
The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

b) The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

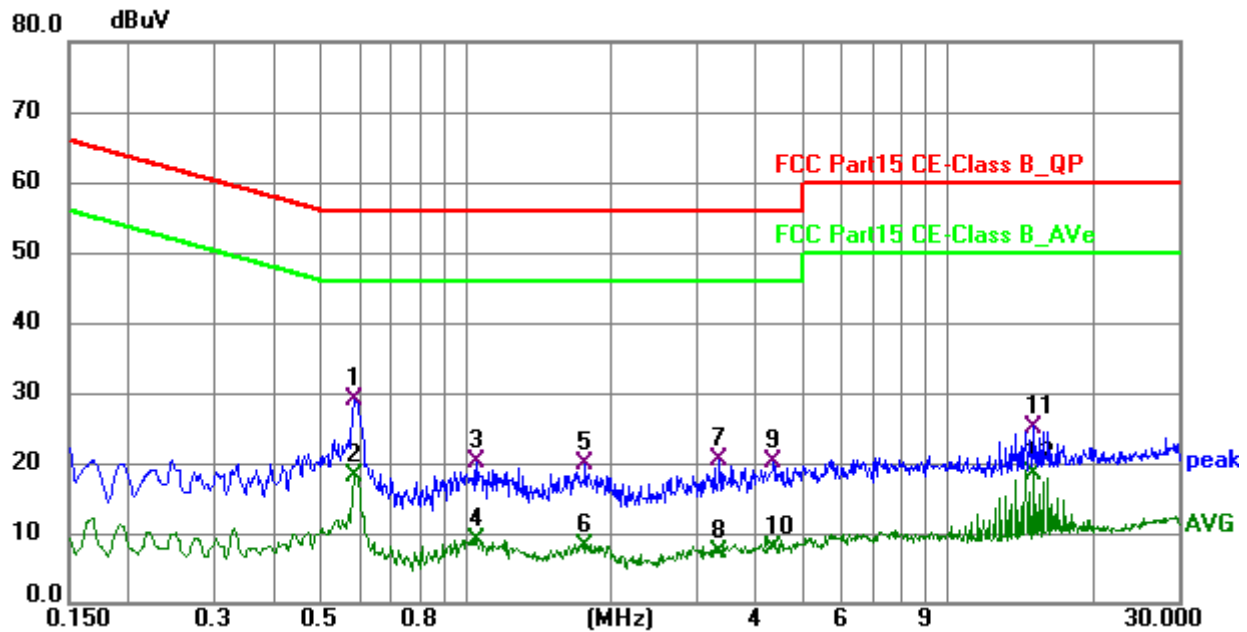
- c) The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipment powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- d) Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- e) I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- f) LISN is at least 80 cm from nearest part of EUT chassis.
- g) For the actual test configuration, please refer to the related Item – photographs of the test setup.

5.2.3 Test Setup



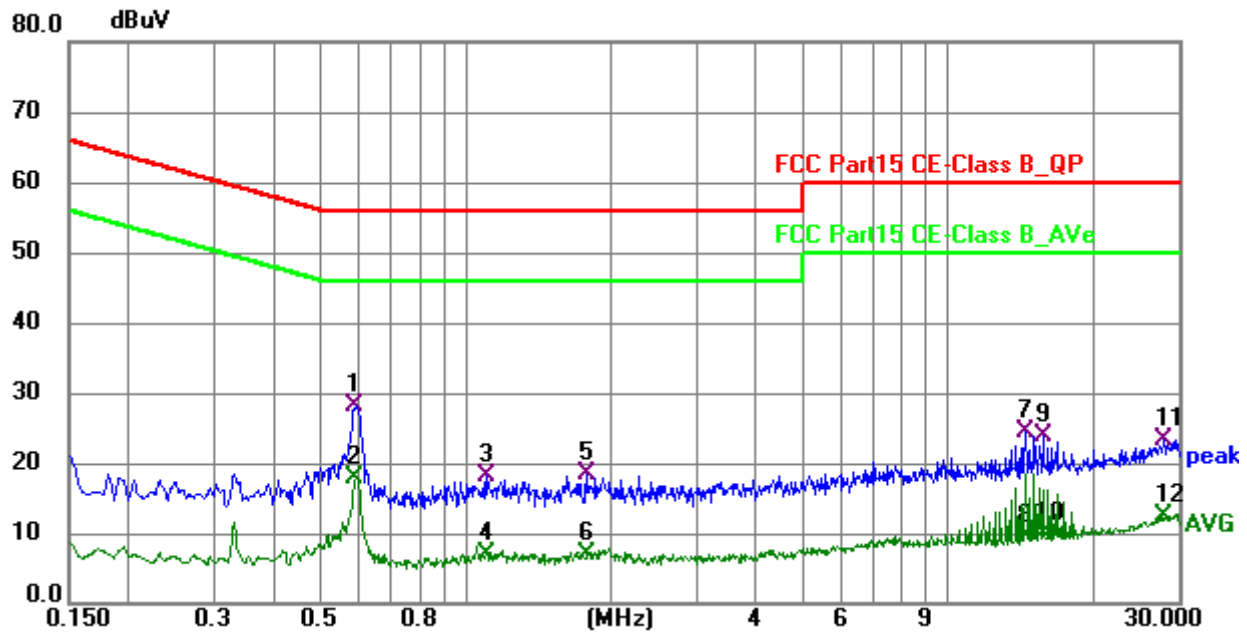
5.2.4 Test Result

EUT:	360 Degree Intelligent Audio & Video Portable All-in-One Device	Model Name:	GP-ONE
Test Mode:	Charging+TX	Phase:	L
Test Voltage:	DC 5V from adapter AC 120V/60Hz		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1 *	0.587	18.88	10.11	28.99	56.00	-27.01	QP
2	0.587	8.00	10.11	18.11	46.00	-27.89	AVG
3	1.054	10.06	10.14	20.20	56.00	-35.80	QP
4	1.054	-1.25	10.14	8.89	46.00	-37.11	AVG
5	1.766	9.58	10.30	19.88	56.00	-36.12	QP
6	1.766	-2.20	10.30	8.10	46.00	-37.90	AVG
7	3.349	9.63	10.73	20.36	56.00	-35.64	QP
8	3.349	-3.35	10.73	7.38	46.00	-38.62	AVG
9	4.340	8.97	11.09	20.06	56.00	-35.94	QP
10	4.340	-3.29	11.09	7.80	46.00	-38.20	AVG
11	15.130	11.03	14.11	25.14	60.00	-34.86	QP
12	15.130	4.40	14.11	18.51	50.00	-31.49	AVG

EUT:	360 Degree Intelligent Audio & Video Portable All-in-One Device	Model Name:	GP-ONE
Test Mode:	Charging+TX	Phase:	N
Test Voltage:	DC 5V from adapter AC 120V/60Hz		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1 *	0.591	17.91	10.12	28.03	56.00	-27.97	QP
2	0.591	7.63	10.12	17.75	46.00	-28.25	AVG
3	1.104	8.02	10.15	18.17	56.00	-37.83	QP
4	1.104	-3.02	10.15	7.13	46.00	-38.87	AVG
5	1.774	8.05	10.30	18.35	56.00	-37.65	QP
6	1.774	-3.31	10.30	6.99	46.00	-39.01	AVG
7	14.478	10.44	14.07	24.51	60.00	-35.49	QP
8	14.478	-4.52	14.07	9.55	50.00	-40.45	AVG
9	15.797	9.61	14.20	23.81	60.00	-36.19	QP
10	15.797	-4.48	14.20	9.72	50.00	-40.28	AVG
11	28.117	7.45	15.80	23.25	60.00	-36.75	QP
12	28.117	-3.32	15.80	12.48	50.00	-37.52	AVG

5.3 Radiated Emission

5.3.1 Limits

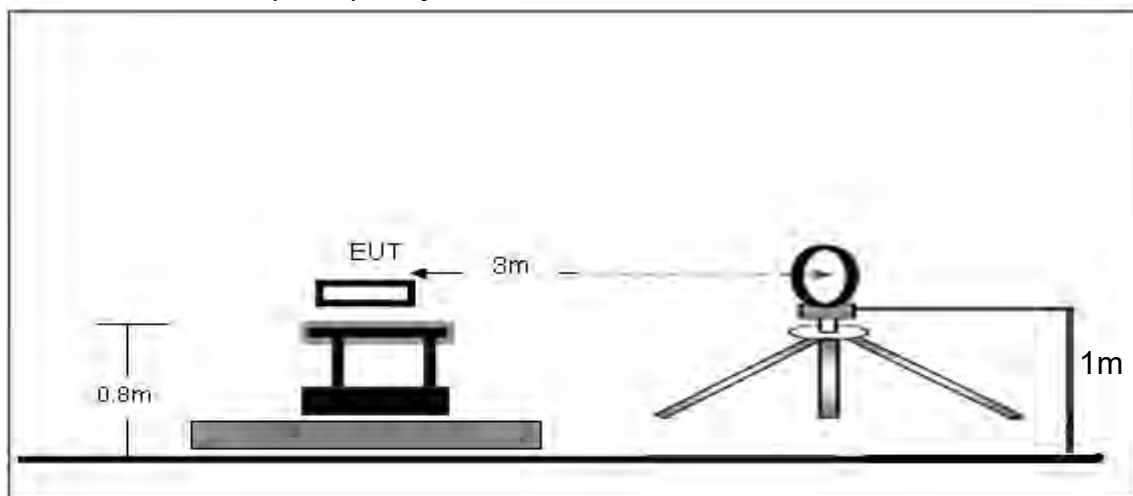
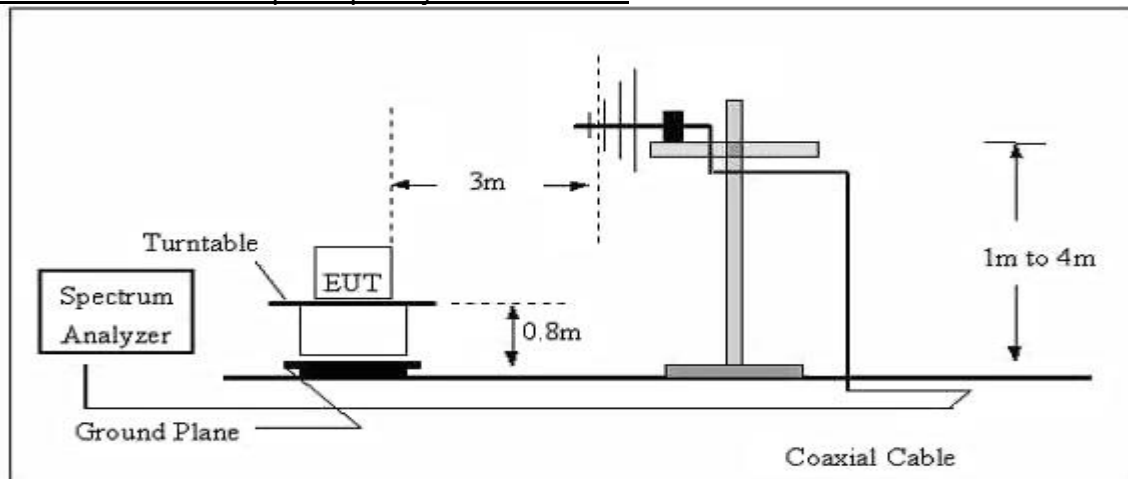
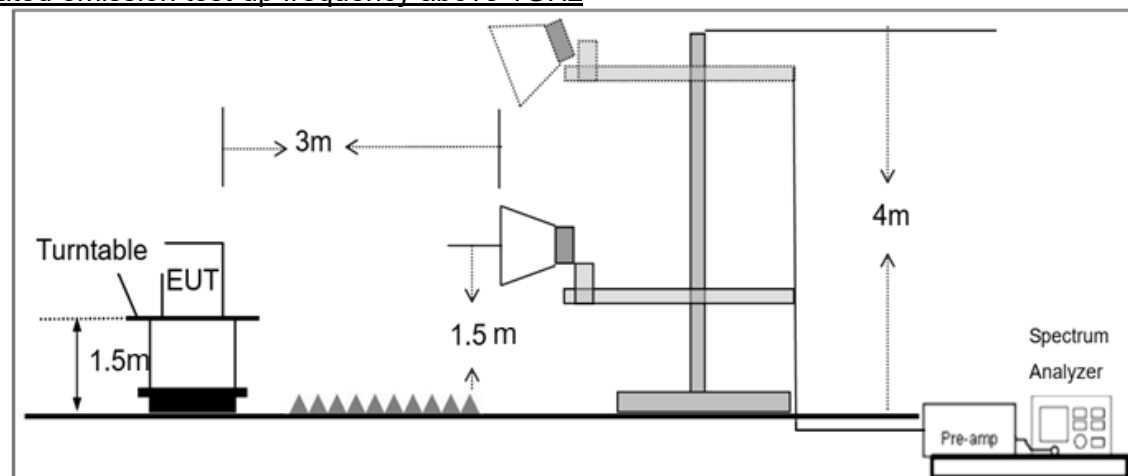
Frequencies (MHz)	Field Strength (micровolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

5.3.2 Test Procedures

- The radiated emission tests were performed in the 3 meters.
- The EUT is placed on a turn table which is 0.8 meter above ground for below 1 GHz, and 1.5 m for above 1 GHz. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
- The height of the test antenna shall vary between 1m to 4m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- If the peak mode measured value compliance with and lower than quasi peak mode limit, the EUT shall be deemed to meet QP limits and then no additional QP mode measurement performed.
- If the peak mode measured value compliance with and lower than average mode limit, the EUT shall be deemed to meet average limits and then no additional average mode measurement performed.
- For the actual test configuration, please refer to the related item – EUT test photos.

5.3.3 Test Setup

Radiated Emission Test-Up Frequency Below 30MHzRadiated Emission Test-Up Frequency 30MHz~1GHzRadiated emission test-up frequency above 1GHz**5.3.4 Test Result**

Below 30MHz

EUT:	360 Degree Intelligent Audio & Video Portable All-in-One Device	Model Name:	GP-ONE
Pressure:	1010 hPa	Test Voltage:	DC 3.85V from battery
Test Mode:	TX	Polarization:	--

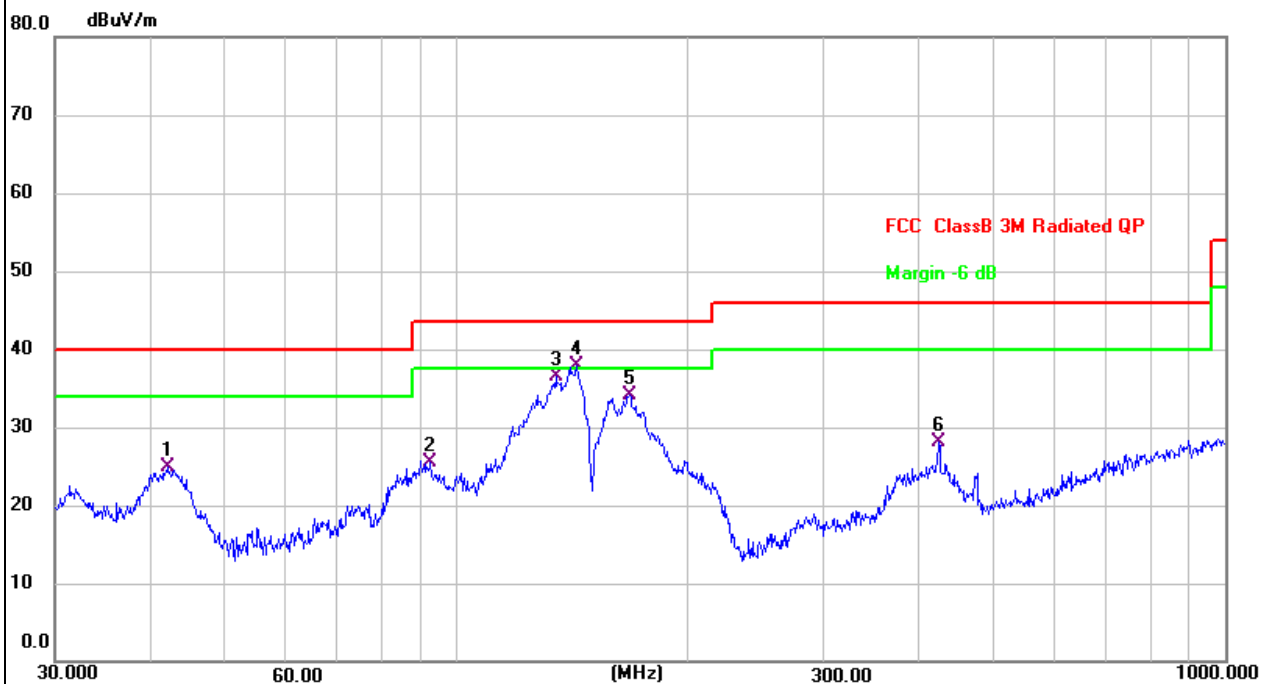
Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
--	--	--	--	Pass
--	--	--	--	Pass

Note:

1. For 9kHz-30MHz, the amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.
2. Distance extrapolation factor = $40 \log (\text{specific distance}/\text{test distance})$ (dB);
3. Limit line = specific limits (dBuV) + distance extrapolation factor.

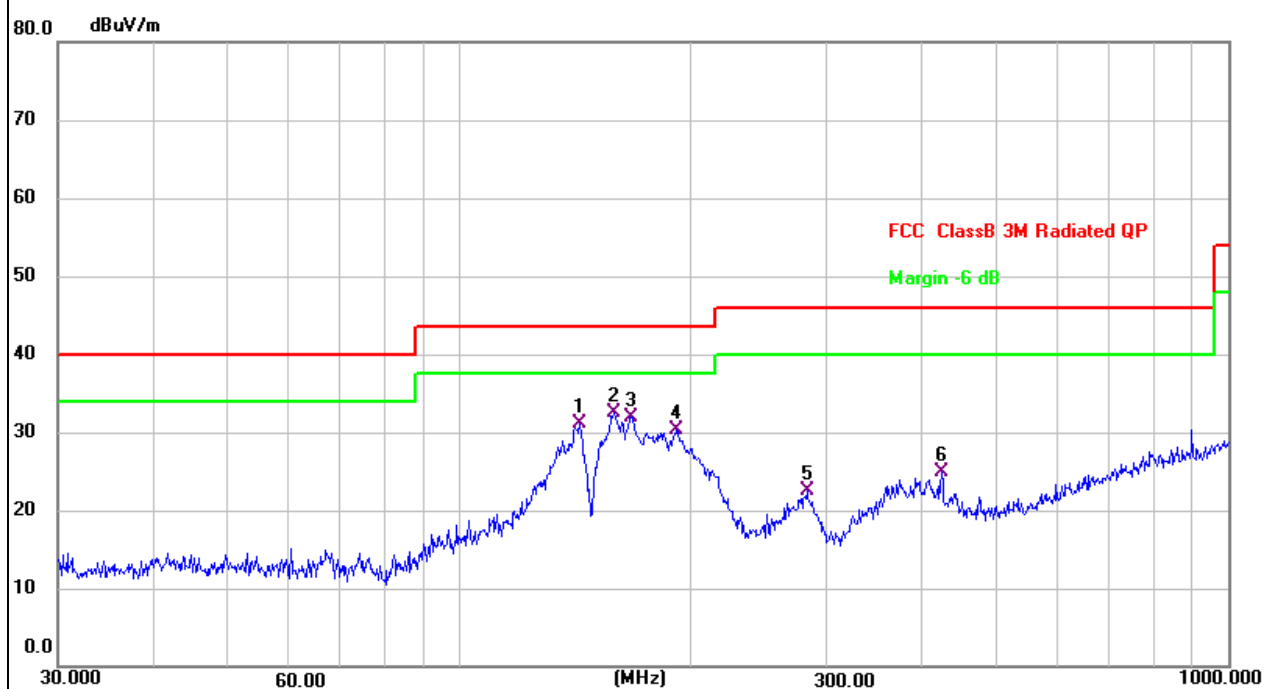
30MHz – 1GHz

EUT:	360 Degree Intelligent Audio & Video Portable All-in-One Device	Model Name:	GP-ONE
Test Mode:	TX	Phase:	Vertical
Test Voltage:	DC 3.85V from battery		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	42.0066	38.76	-13.88	24.88	40.00	-15.12	QP
2	92.4624	43.57	-18.08	25.49	43.50	-18.01	QP
3	134.5592	50.76	-14.35	36.41	43.50	-7.09	QP
4 *	143.3261	51.59	-13.78	37.81	43.50	-5.69	QP
5	167.8243	47.57	-13.40	34.17	43.50	-9.33	QP
6	423.5403	36.78	-8.68	28.10	46.00	-17.90	QP

EUT:	360 Degree Intelligent Audio & Video Portable All-in-One Device	Model Name:	GP-ONE
Test Mode:	TX	Phase:	Horizontal
Test Voltage:	DC 3.85V from battery		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	143.3261	44.95	-13.78	31.17	43.50	-12.33	QP
2 *	158.6677	45.82	-13.26	32.56	43.50	-10.94	QP
3	167.2368	45.32	-13.40	31.92	43.50	-11.58	QP
4	191.0738	46.40	-16.10	30.30	43.50	-13.20	QP
5	282.9852	35.51	-13.06	22.45	46.00	-23.55	QP
6	423.5403	33.53	-8.68	24.85	46.00	-21.15	QP

1GHz-25GHz

Frequency (MHz)	Read Level (dBμV)	Cable loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type	Comment
Low Channel (2402 MHz)(8DPSK)--Above 1G									
4804.125	42.81	4.83	33.5	30.80	50.34	74.00	-23.66	Pk	Vertical
4804.125	31.79	4.83	33.5	30.80	39.32	54.00	-14.68	AV	Vertical
7206.261	42.81	5.83	37.79	31.40	55.03	74.00	-18.97	Pk	Vertical
7206.261	31.85	5.83	37.79	31.40	44.07	54.00	-9.93	AV	Vertical
4804.194	42.88	4.83	33.5	30.80	50.41	74.00	-23.59	Pk	Horizontal
4804.194	31.87	4.83	33.5	30.80	39.40	54.00	-14.60	AV	Horizontal
7206.274	42.86	5.83	37.79	31.40	55.08	74.00	-18.92	Pk	Horizontal
7206.274	32.08	5.83	37.79	31.40	44.30	54.00	-9.70	AV	Horizontal
Mid Channel (2441 MHz)(8DPSK)--Above 1G									
4882.139	44.10	4.89	33.76	30.80	51.95	74.00	-22.05	Pk	Vertical
4882.139	31.84	4.89	33.76	30.80	39.69	54.00	-14.31	AV	Vertical
7323.284	44.32	5.95	38.25	31.70	56.82	74.00	-17.18	Pk	Vertical
7323.284	32.82	5.95	38.25	31.70	45.32	54.00	-8.68	AV	Vertical
4882.215	43.65	4.89	33.76	30.80	51.50	74.00	-22.50	Pk	Horizontal
4882.215	31.85	4.89	33.76	30.80	39.70	54.00	-14.30	AV	Horizontal
7323.299	43.83	5.95	38.25	31.70	56.33	74.00	-17.67	Pk	Horizontal
7323.299	32.77	5.95	38.25	31.70	45.27	54.00	-8.73	AV	Horizontal
High Channel (2480 MHz)(8DPSK)--Above 1G									
4960.143	42.72	4.95	34.33	30.80	51.20	74.00	-22.80	Pk	Vertical
4960.143	31.89	4.95	34.33	30.80	40.37	54.00	-13.63	AV	Vertical
7440.296	43.44	6.11	37.60	31.74	55.41	74.00	-18.59	Pk	Vertical
7440.296	32.36	6.11	37.60	31.74	44.33	54.00	-9.67	AV	Vertical
4960.245	42.83	4.95	34.33	30.80	51.31	74.00	-22.69	Pk	Horizontal
4960.245	32.07	4.95	34.33	30.80	40.55	54.00	-13.45	AV	Horizontal
7440.304	43.01	6.11	37.60	31.74	54.98	74.00	-19.02	Pk	Horizontal
7440.304	32.46	6.11	37.60	31.74	44.43	54.00	-9.57	AV	Horizontal

Note:

1. All Readings are Peak Value (VBW=3MHz) and AV Value (VBW=10Hz).
2. Emission Level= Antenna Factor + Cable Loss + Read Level - Preamp Factor.
3. All the modulation modes have been tested, and only the worst results are reflected in the report.

5.3.5 Radiated Band Edge

Frequency (MHz)	Read Level (dBμV)	Cable loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detect or Type	Comment
1Mbps(8DPSK)- Non-hopping									
2310.00	45.91	3.40	27.80	32.41	44.70	74	-29.30	Pk	Horizontal
2310.00	33.32	3.40	27.80	32.41	32.11	54	-21.89	AV	Horizontal
2310.00	44.72	3.40	27.80	32.41	43.51	74	-30.49	Pk	Vertical
2310.00	33.46	3.40	27.80	32.41	32.25	54	-21.75	AV	Vertical
2390.00	45.66	3.45	27.70	32.49	44.32	74	-29.68	Pk	Vertical
2390.00	34.56	3.45	27.70	32.49	33.22	54	-20.78	AV	Vertical
2390.00	46.28	3.45	27.70	32.49	44.94	74	-29.06	Pk	Horizontal
2390.00	34.53	3.45	27.70	32.49	33.19	54	-20.81	AV	Horizontal
2400.00	46.81	3.46	27.80	32.54	45.53	74	-28.47	Pk	Vertical
2400.00	34.33	3.46	27.80	32.54	33.05	54	-20.95	AV	Vertical
2400.00	45.91	3.46	27.80	32.54	44.63	74	-29.37	Pk	Horizontal
2400.00	34.35	3.46	27.80	32.54	33.07	54	-20.93	AV	Horizontal
2483.50	47.20	3.48	28.53	32.55	46.66	74	-27.34	Pk	Vertical
2483.50	34.04	3.48	28.53	32.55	33.50	54	-20.50	AV	Vertical
2483.50	46.24	3.48	28.53	32.55	45.70	74	-28.30	Pk	Horizontal
2483.50	33.87	3.48	28.53	32.55	33.33	54	-20.67	AV	Horizontal
2500.00	45.54	3.49	29.20	32.66	45.57	74	-28.43	Pk	Vertical
2500.00	33.96	3.49	29.20	32.66	33.99	54	-20.01	AV	Vertical
2500.00	45.26	3.49	29.20	32.66	45.29	74	-28.71	Pk	Horizontal
2500.00	33.72	3.49	29.20	32.66	33.75	54	-20.25	AV	Horizontal
1Mbps (8DPSK)- hopping									
2400.00	46.97	3.46	27.80	32.54	45.69	74	-28.31	Pk	Vertical
2400.00	34.67	3.46	27.80	32.54	33.39	54	-20.61	AV	Vertical
2400.00	46.03	3.46	27.80	32.54	44.75	74	-29.25	Pk	Horizontal
2400.00	34.55	3.46	27.80	32.54	33.27	54	-20.73	AV	Horizontal
2483.50	47.27	3.48	28.53	32.55	46.73	74	-27.27	Pk	Vertical
2483.50	34.12	3.48	28.53	32.55	33.58	54	-20.42	AV	Vertical
2483.50	46.36	3.48	28.53	32.55	45.82	74	-28.18	Pk	Horizontal
2483.50	33.98	3.48	28.53	32.55	33.44	54	-20.56	AV	Horizontal

Note:

1. All Readings are Peak Value (VBW=3MHz) and AV Value (VBW=10Hz).
2. Emission Level= Antenna Factor + Cable Loss + Read Level - Preamp Factor.
3. All the modulation modes have been tested, and only the worst results are reflected in the report.

5.4 Peak Output Power

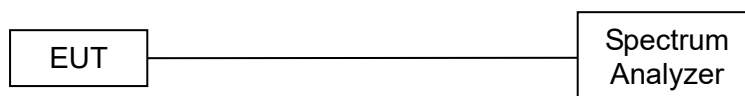
5.4.1 Limit

FCC Part15 Subpart C			
Section	Test Item	Limit	Frequency Range (MHz)
15.247(b)(1)	Peak output power	Power<0.125W (21dBm)	2400-2483.5

5.4.2 Test Procedure

- (1) The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- (2) Spectrum Setting:
RBW=2MHz, VBW=10MHz, Detector=Peak
- (3) The EUT was set to continuously transmitting in the max power during the test.

5.4.3 Test Setup



5.4.4 Test Results

EUT:	360 Degree Intelligent Audio & Video Portable All-in-One Device	Model Name:	GP-ONE
Test Mode:	GFSK, $\pi/4$ -DQPSK, 8DPSK /CH00, CH39, CH78	Test Voltage:	DC 3.85V from battery

GFSK

Test Channel	Frequency (MHz)	Maximum Peak Output Power(dBm)	Limit (dBm)
CH00	2402	1.8	21
CH39	2441	1.93	21
CH78	2480	2.23	21

 $\pi/4$ -DQPSK

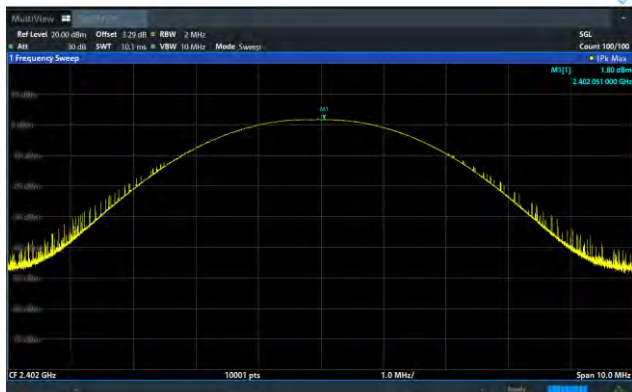
Test Channel	Frequency (MHz)	Maximum Peak Output Power(dBm)	Limit (dBm)
CH00	2402	1.86	21
CH39	2441	1.97	21
CH78	2480	2.27	21

8DPSK

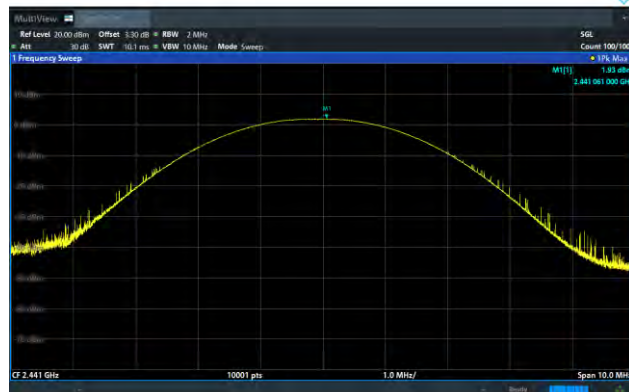
Test Channel	Frequency (MHz)	Maximum Peak Output Power(dBm)	Limit (dBm)
CH00	2402	2.16	21
CH39	2441	2.19	21
CH78	2480	2.54	21

Test plots

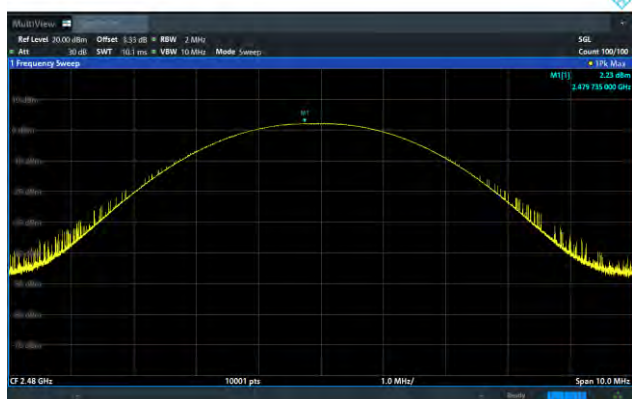
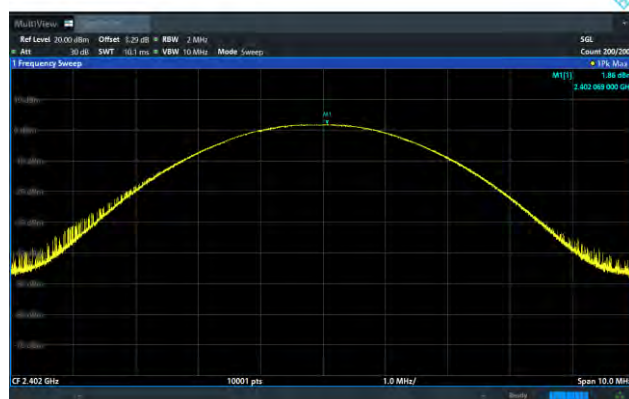
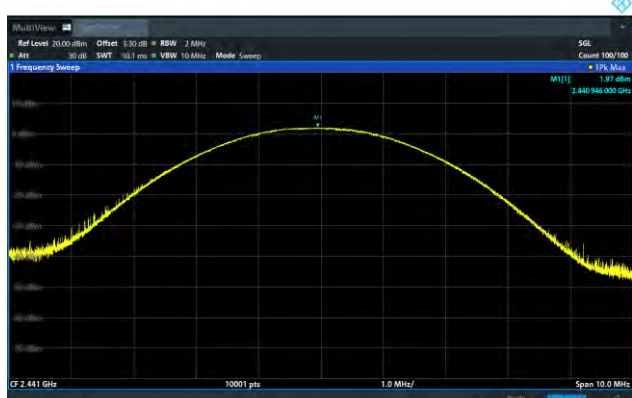
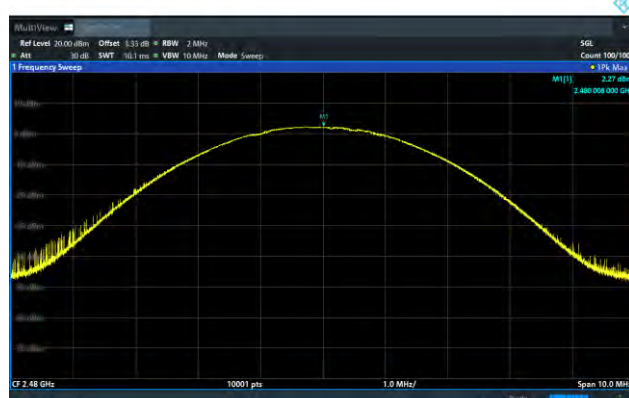
GFSK on Channel 00

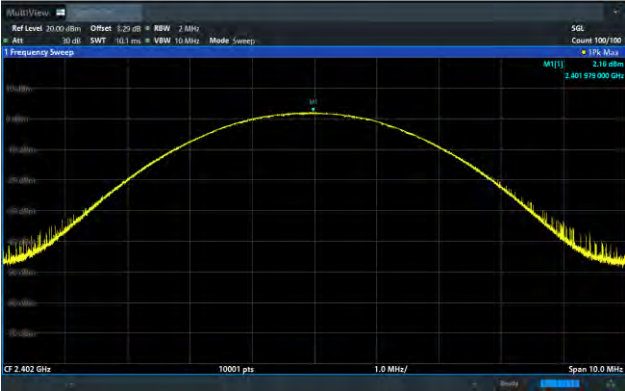
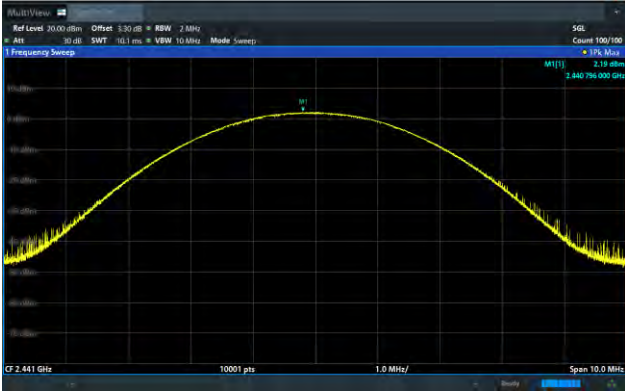


GFSK on Channel 39



GFSK on Channel 78

 $\pi/4$ -DQPSK on Channel 00 $\pi/4$ -DQPSK on Channel 39 $\pi/4$ -DQPSK on Channel 78

8DPSK on Channel 00	8DPSK on Channel 39
	
8DPSK on Channel 78	/
	/

5.5 20dB Occupied Channel Bandwidth

5.5.1 Limit

FCC Part15 (15.247) , Subpart C			
Section	Test Item	Limit	Frequency Range (MHz)
15.247a(1)	20dB bandwidth	N/A	2400-2483.5

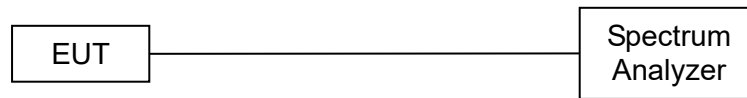
5.5.2 Test Procedure

(1) The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.

(2) Spectrum Setting:

Bandwidth: RBW=30 kHz, VBW=100 kHz, detector= Peak

5.5.3 Test Setup



5.5.4 Test results

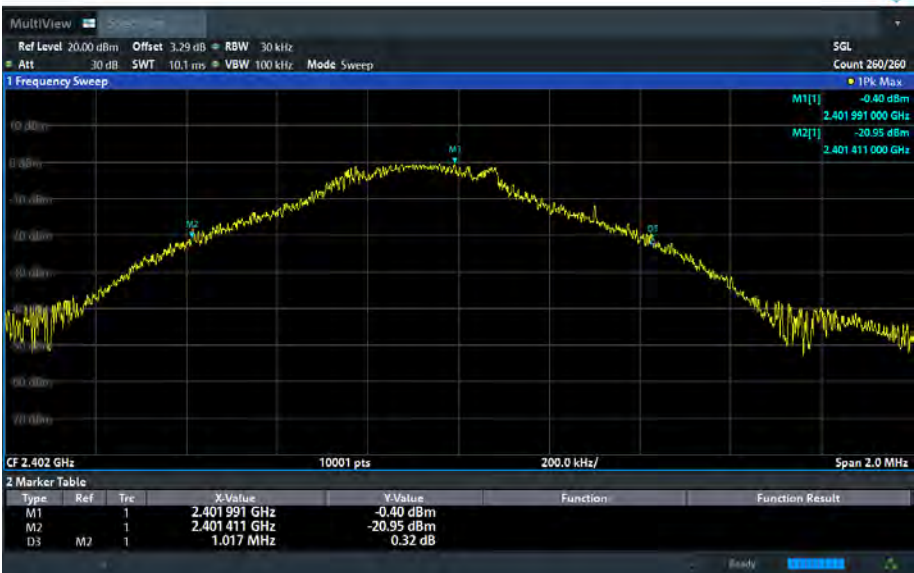
EUT:	360 Degree Intelligent Audio & Video Portable All-in-One Device	Model Name:	GP-ONE
Test Mode:	GFSK, $\pi/4$ -DQPSK, 8DPSK /CH00, CH39, CH78	Test Voltage:	DC 3.85V from battery

Mode	Frequency (MHz)	20dB Bandwidth (MHz)	Limit (kHz)	Result
GFSK	2402	1.017	N/A	Pass
	2441	1.006	N/A	Pass
	2480	0.981	N/A	Pass
$\pi/4$ -DQPSK	2402	1.295	N/A	Pass
	2441	1.29	N/A	Pass
	2480	1.295	N/A	Pass
8DPSK	2402	1.299	N/A	Pass
	2441	1.316	N/A	Pass
	2480	1.296	N/A	Pass

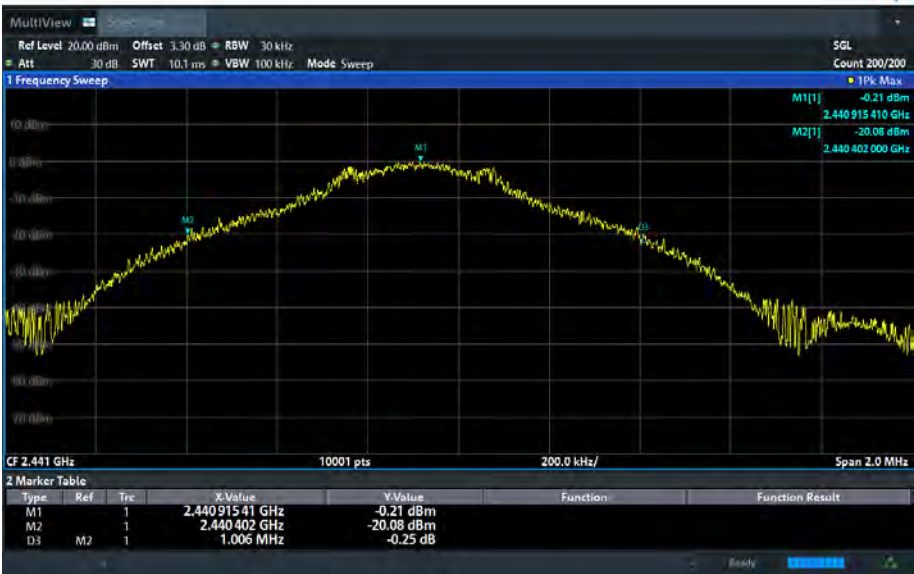
Test plots

GFSK mode

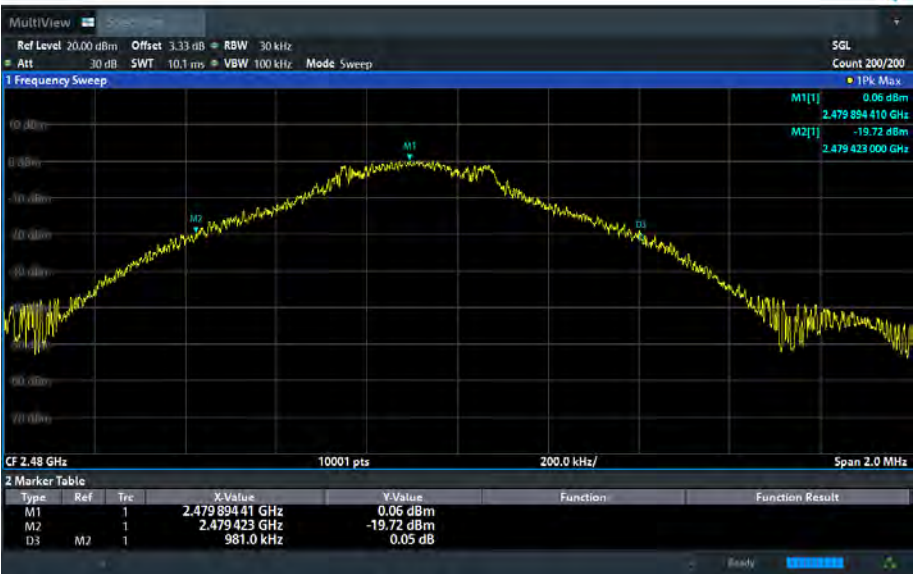
TX CH00



TX CH39



TX CH78

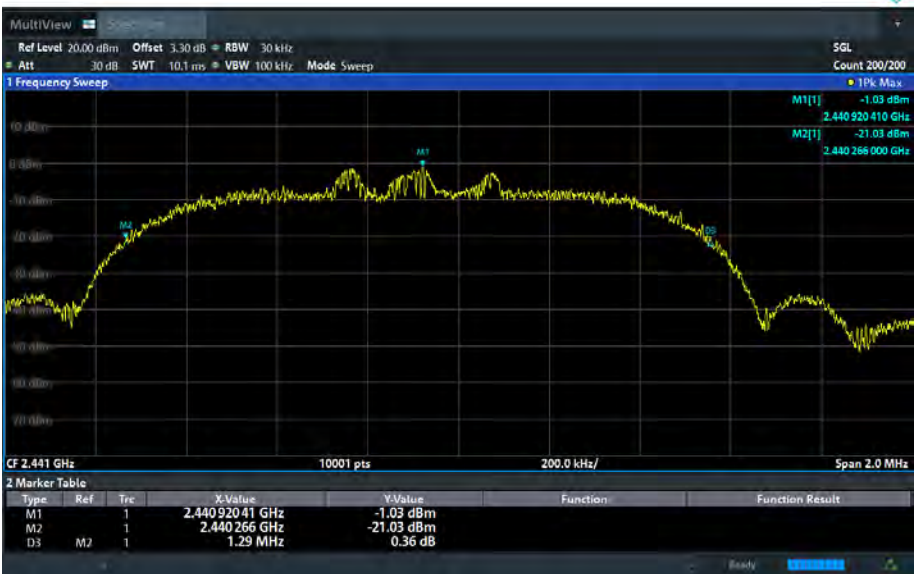


$\pi/4$ -DQPSK

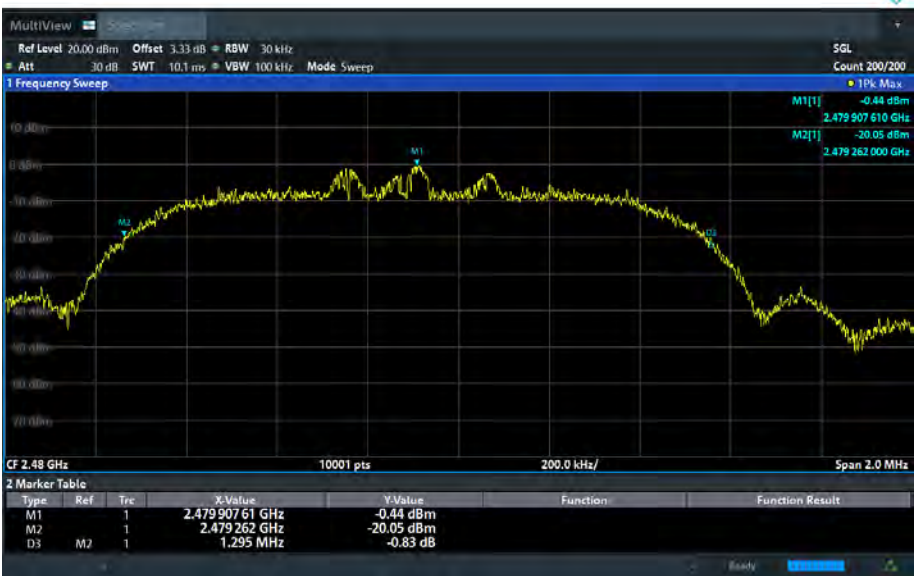
TX CH00



TX CH39



TX CH78

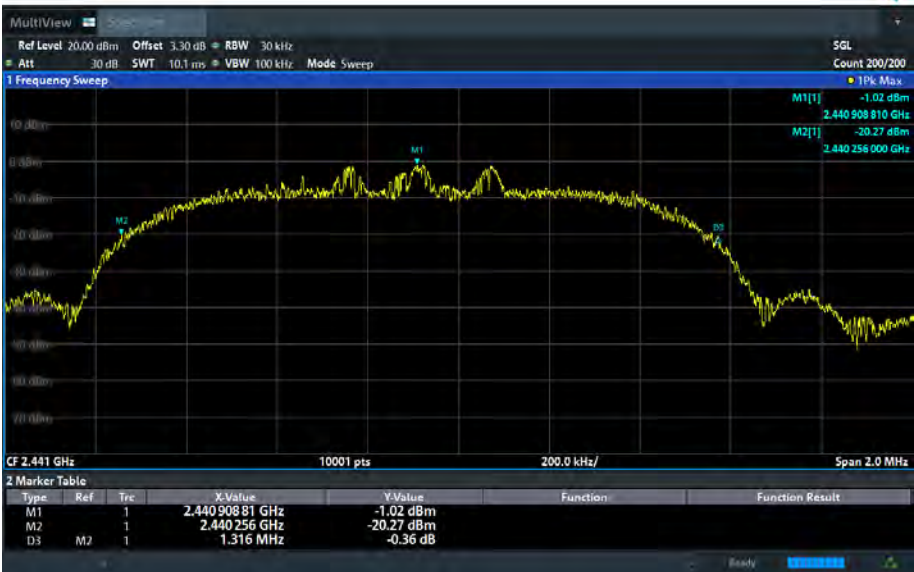


8DPSK mode

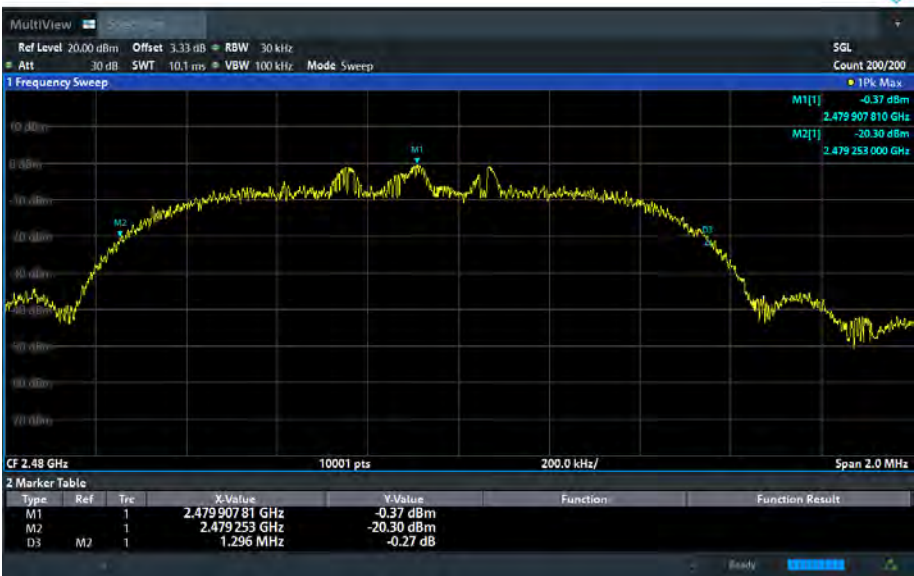
TX CH00



TX CH39



TX CH78



5.6 Carrier Frequency Separation

5.6.1 Limit

FCC Part15 (15.247) , Subpart C			
Section	Test Item	Limit	Frequency Range (MHz)
15.247(a)(1)	Channel Separation	>25kHz or >two-thirds of the 20 dB bandwidth (Which is greater)	2400-2483.5

5.6.2 Test Procedure

- (1) The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- (2) Spectrum Setting:
RBW=30 kHz, VBW=100 kHz, detector= Peak, Sweep Time =auto.
- (3) The EUT was set to the Hopping Mode for Channel Separation Test and continuously transmitting for the Test.

5.6.3 Test Setup



5.6.4 Test Results

EUT:	360 Degree Intelligent Audio & Video Portable All-in-One Device	Model Name:	GP-ONE
Pressure:	1012 hPa	Test Voltage:	DC 3.85V from battery
Test Mode:	GFSK, $\pi/4$ -DQPSK, 8DPSK /CH00, CH39, CH78		

Mode	Channel	Frequency (MHz)	Test Result (kHz)	Limit (kHz)		Result
GFSK	Low	2402	1010	678	2/3 of 20dB BW	Pass
	Middle	2441	990	671	2/3 of 20dB BW	Pass
	High	2480	1004	654	2/3 of 20dB BW	Pass
$\pi/4$ -DQPSK	Low	2402	998	863	2/3 of 20dB BW	Pass
	Middle	2441	1002	860	2/3 of 20dB BW	Pass
	High	2480	998	863	2/3 of 20dB BW	Pass
8DPSK	Low	2402	1000	866	2/3 of 20dB BW	Pass
	Middle	2441	1002	877	2/3 of 20dB BW	Pass
	High	2480	1002	864	2/3 of 20dB BW	Pass

Test plots

GFSK mode-CH00



GFSK mode-CH39



GFSK mode-CH78



$\pi/4$ -DQPSK mode-CH00



$\pi/4$ -DQPSK mode-CH39



$\pi/4$ -DQPSK mode-CH78



8DPSK mode-CH00



8DPSK mode-CH39



8DPSK mode-CH78



5.7 Hopping Channel Number

5.7.1 Limit

Frequency hopping systems in the 2400-2483.5MHz band shall use at least 15 channels.

5.7.2 Test Procedure

The testing follows IEEE / ANSI C63.10-2020 clause 7.8.3

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.

The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously.

The EUT must have its hopping function enabled.

Use the following spectrum analyzer settings:

Span = the frequency band of operation

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.

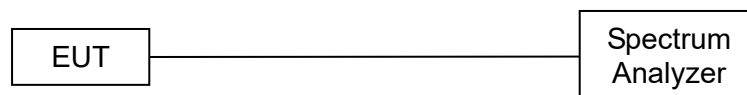
VBW $\geq$ RBW

Sweep = auto

Detector function = peak

Trace = max hold

5.7.3 Test Setup



5.7.4 Test Results

Mode	Quantity of Hopping Channel	Limit	Results
GFSK, $\pi/4$ -DQPSK, 8DPSK	79	>15	Pass

Test plots



8DPSK mode



5.8 Dwell Time

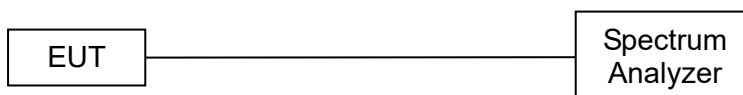
5.8.1 Limit

FCC Part15 (15.247) , Subpart C			
Section	Test Item	Limit	Frequency Range (MHz)
15.247(a)(1)	Dwell time	0.4 sec	2400-2483.5

5.8.2 Test Procedure

- (1) The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- (2) Spectrum Setting: RBW=1MHz, VBW=3MHz, Span=0Hz, Detector=Peak
- (3) Use video trigger with the trigger level set to enable triggering only on full pulses.
- (4) Sweep Time is more than once pulse time.
- (5) Set the center frequency on any frequency would be measure and set the frequency span to zero span.
- (6) Measure the maximum time duration of one single pulse.
- (7) Set the EUT for packet transmitting.
- (8) Measure the maximum time duration of one single pulse.
- (9) The EUT was set to the Hopping Mode for Dwell Time Test.

5.8.3 Test Setup



5.8.4 Test Results

EUT:	360 Degree Intelligent Audio & Video Portable All-in-One Device	Model Name:	GP-ONE
Pressure:	1012 hPa	Test Voltage:	DC 3.85V from battery
Test Mode:	GFSK, $\pi/4$ -DQPSK, 8DPSK /CH39		

Mode	Data Packet	Frequency (MHz)	Pulse Duration (ms)	Dwell Time (ms)	Limit(s)	Conclusion
GFSK	DH1	2441	0.379	121.28	<0.4	Pass
	DH3	2441	1.644	263.04	<0.4	Pass
	DH5	2441	2.892	308.48	<0.4	Pass
$\pi/4$ DQPSK	2DH1	2441	0.386	123.52	<0.4	Pass
	2DH3	2441	1.639	262.24	<0.4	Pass
	2DH5	2441	2.886	307.84	<0.4	Pass
8DPSK	3DH1	2441	0.386	123.52	<0.4	Pass
	3DH3	2441	1.636	261.76	<0.4	Pass
	3DH5	2441	2.887	307.95	<0.4	Pass

Note:

1. A period time = $0.4 \text{ (s)} * 79 = 31.6 \text{ (s)}$

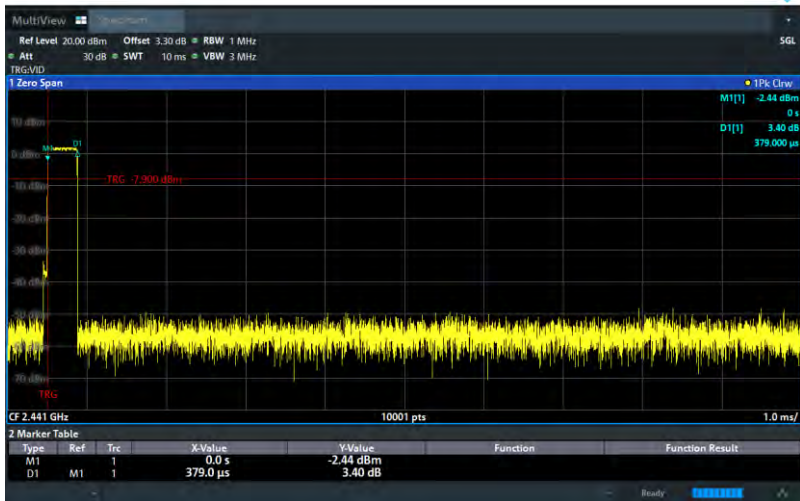
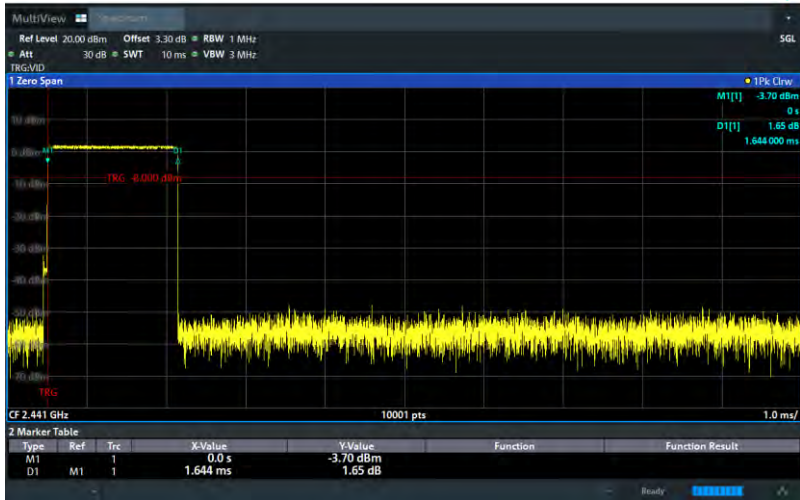
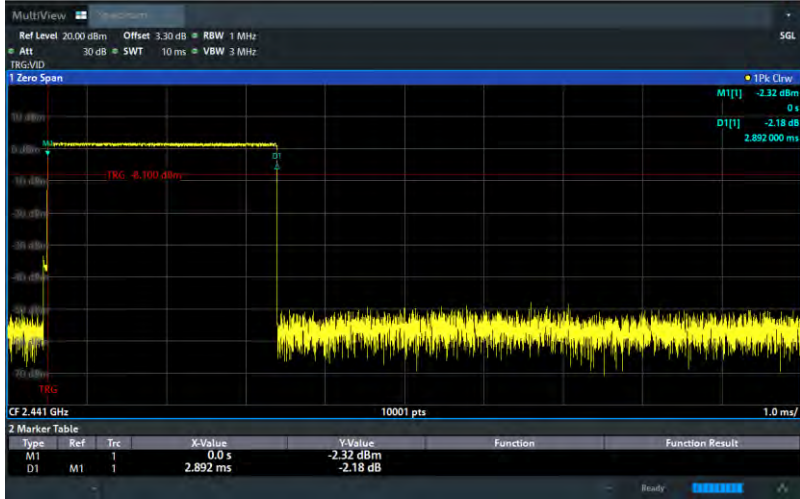
2. DH1 time slot = Pulse Duration * $(1600/(2*79))$ * A period time

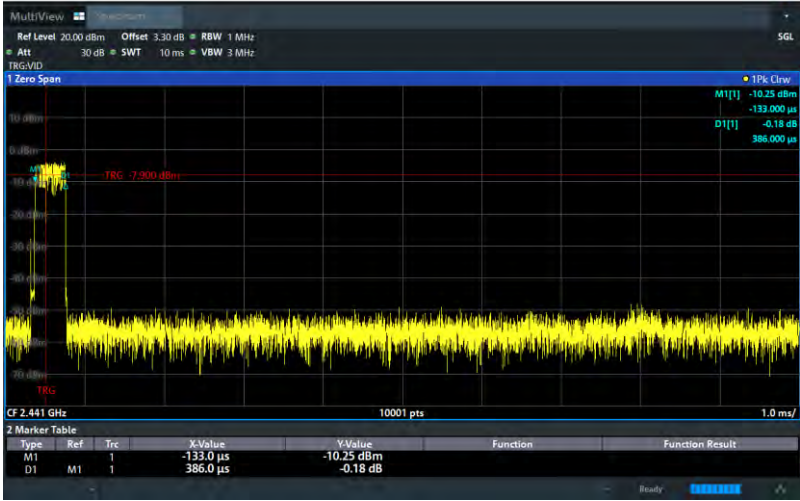
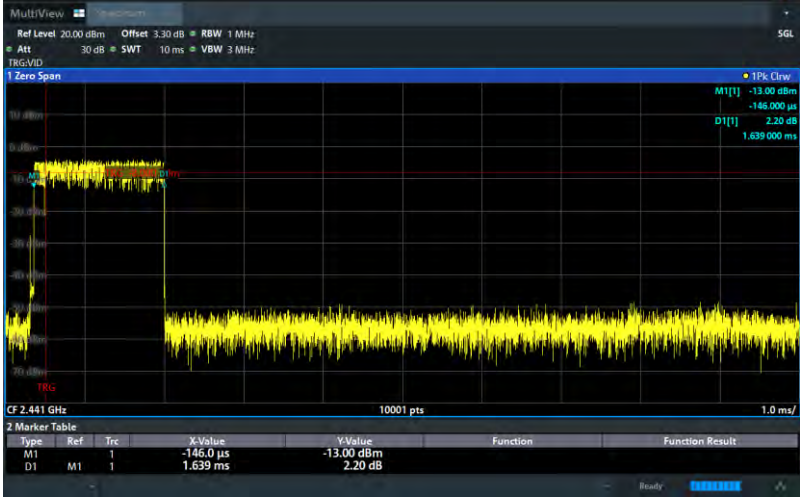
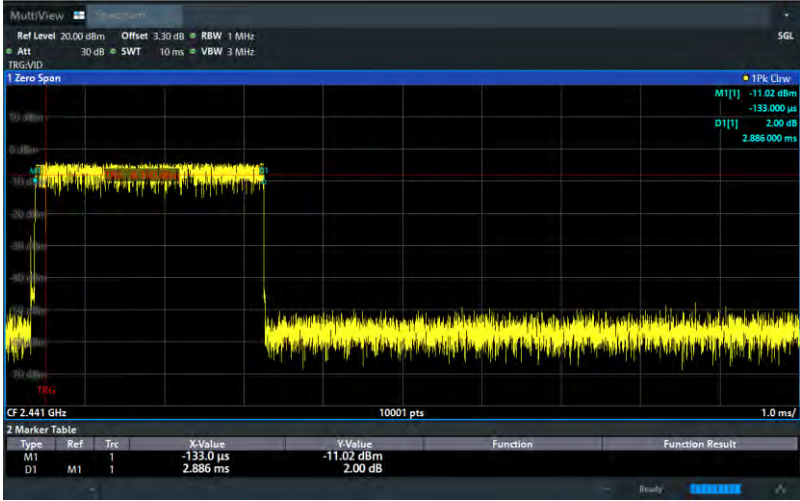
DH3 time slot = Pulse Duration * $(1600/(4*79))$ * A period time

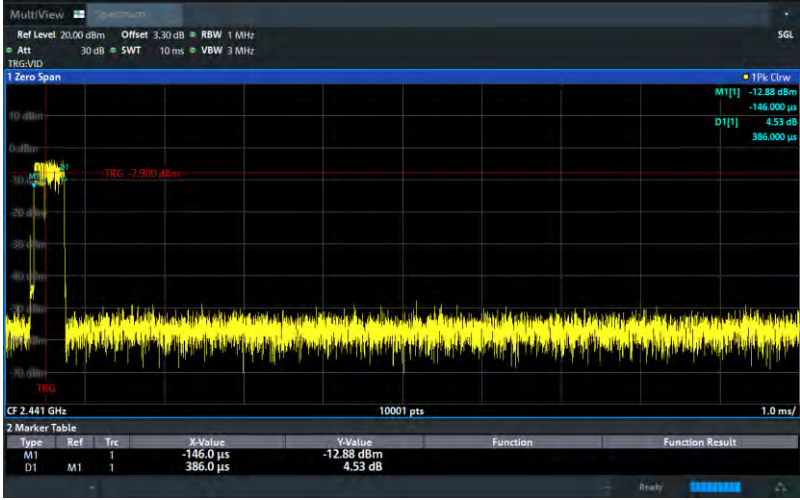
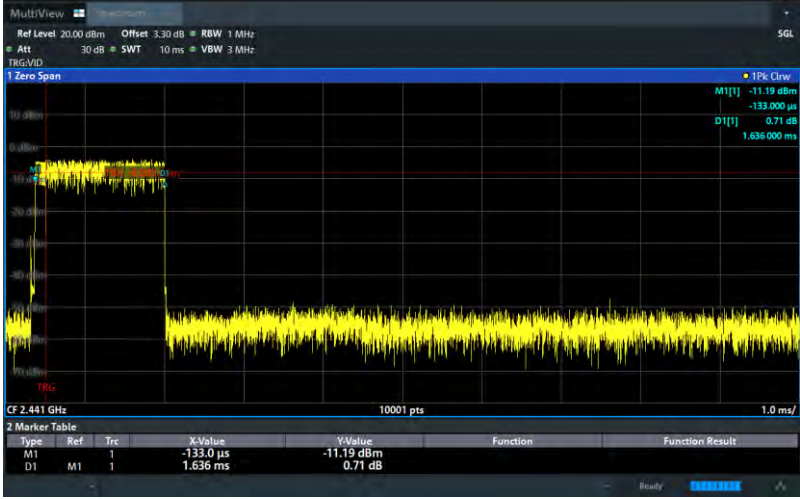
DH5 time slot = Pulse Duration * $(1600/(6*79))$ * A period time

3. For GFSK, $\pi/4$ -DQPSK and 8DPSK: The test period: $T = 0.4 \text{ Second/Channel} * 79 \text{ Channel} = 31.6 \text{ s}$

Test plots

Modulation mode		GFSK mode																						
DH1	 The plot shows a signal at 2.441 GHz. The peak level is -2.44 dBm, and the duration is 379.000 μs. The signal is shown as a yellow trace on a black background. The x-axis represents frequency in MHz, and the y-axis represents power in dBm. The signal is centered at 2.441 GHz and has a bandwidth of 3 MHz. The peak level is -2.44 dBm, and the duration is 379.000 μs. <table><tr><th>Type</th><th>Ref</th><th>Trc</th><th>X-Value</th><th>Y-Value</th><th>Function</th><th>Function Result</th></tr><tr><td>M1</td><td></td><td>1</td><td>0.0 s</td><td>-2.44 dBm</td><td></td><td></td></tr><tr><td>D1</td><td>M1</td><td>1</td><td>379.0 μs</td><td>3.40 dB</td><td></td><td></td></tr></table>			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1		1	0.0 s	-2.44 dBm			D1	M1	1	379.0 μs	3.40 dB		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																		
M1		1	0.0 s	-2.44 dBm																				
D1	M1	1	379.0 μs	3.40 dB																				
DH3	 The plot shows a signal at 2.441 GHz. The peak level is -3.70 dBm, and the duration is 1.644 ms. The signal is shown as a yellow trace on a black background. The x-axis represents frequency in MHz, and the y-axis represents power in dBm. The signal is centered at 2.441 GHz and has a bandwidth of 3 MHz. The peak level is -3.70 dBm, and the duration is 1.644 ms. <table><tr><th>Type</th><th>Ref</th><th>Trc</th><th>X-Value</th><th>Y-Value</th><th>Function</th><th>Function Result</th></tr><tr><td>M1</td><td></td><td>1</td><td>0.0 s</td><td>-3.70 dBm</td><td></td><td></td></tr><tr><td>D1</td><td>M1</td><td>1</td><td>1.644 ms</td><td>1.65 dB</td><td></td><td></td></tr></table>			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1		1	0.0 s	-3.70 dBm			D1	M1	1	1.644 ms	1.65 dB		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																		
M1		1	0.0 s	-3.70 dBm																				
D1	M1	1	1.644 ms	1.65 dB																				
DH5	 The plot shows a signal at 2.441 GHz. The peak level is -2.32 dBm, and the duration is 2.892 ms. The signal is shown as a yellow trace on a black background. The x-axis represents frequency in MHz, and the y-axis represents power in dBm. The signal is centered at 2.441 GHz and has a bandwidth of 3 MHz. The peak level is -2.32 dBm, and the duration is 2.892 ms. <table><tr><th>Type</th><th>Ref</th><th>Trc</th><th>X-Value</th><th>Y-Value</th><th>Function</th><th>Function Result</th></tr><tr><td>M1</td><td></td><td>1</td><td>0.0 s</td><td>-2.32 dBm</td><td></td><td></td></tr><tr><td>D1</td><td>M1</td><td>1</td><td>2.892 ms</td><td>-2.18 dB</td><td></td><td></td></tr></table>			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1		1	0.0 s	-2.32 dBm			D1	M1	1	2.892 ms	-2.18 dB		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																		
M1		1	0.0 s	-2.32 dBm																				
D1	M1	1	2.892 ms	-2.18 dB																				

Modulation mode	$\pi/4$ -DQPSK mode
2-DH1	 MultiView Ref Level 20.00 dBm Offset 3.30 dB RBW 1 MHz Att 30 dB SWT 10 ms VBW 3 MHz TRG:VID 1 Zero Span CF 2.441 GHz 10001 pts 1.0 ms/ 2 Marker Table Type Ref Trc X-Value Y-Value Function Function Result M1 1 -133.0 dBm -10.25 dB D1 M1 1 -0.18 dB -0.18 dB
2-DH3	 MultiView Ref Level 20.00 dBm Offset 3.30 dB RBW 1 MHz Att 30 dB SWT 10 ms VBW 3 MHz TRG:VID 1 Zero Span CF 2.441 GHz 10001 pts 1.0 ms/ 2 Marker Table Type Ref Trc X-Value Y-Value Function Function Result M1 1 -146.0 dBm -13.00 dB D1 M1 1 2.20 dB 2.20 dB
2-DH5	 MultiView Ref Level 20.00 dBm Offset 3.30 dB RBW 1 MHz Att 30 dB SWT 10 ms VBW 3 MHz TRG:VID 1 Zero Span CF 2.441 GHz 10001 pts 1.0 ms/ 2 Marker Table Type Ref Trc X-Value Y-Value Function Function Result M1 1 -133.0 dBm -11.02 dB D1 M1 1 2.00 dB 2.00 dB

Modulation mode	8DPSK mode
3-DH1	
3-DH3	
3-DH5	

5.9 Conducted Band Edge

5.9.1 Limit

In any 100 kHz 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 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 the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

5.9.2 Test Procedure

- a) Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- b) Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
- c) Set RBW to 100 kHz and VBW of spectrum analyzer to 300 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
- d) Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
- e) Repeat above procedures until all measured frequencies were complete.

5.9.3 Test Setup

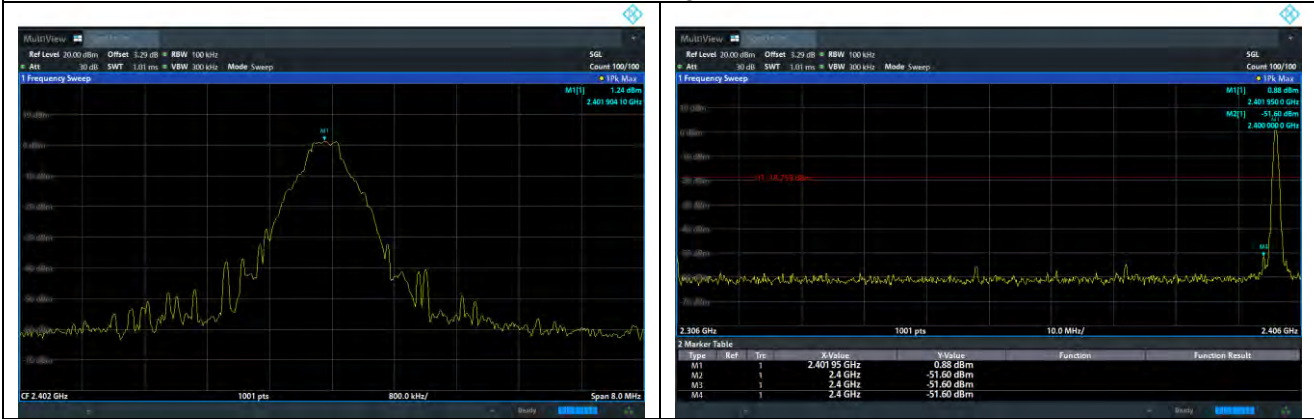


5.9.4 Test Results

EUT:	360 Degree Intelligent Audio & Video Portable All-in-One Device	Model Name:	GP-ONE
Pressure:	1012 hPa	Test Voltage:	DC 3.85V from battery

Test plots

GFSK: Band Edge, Left Side



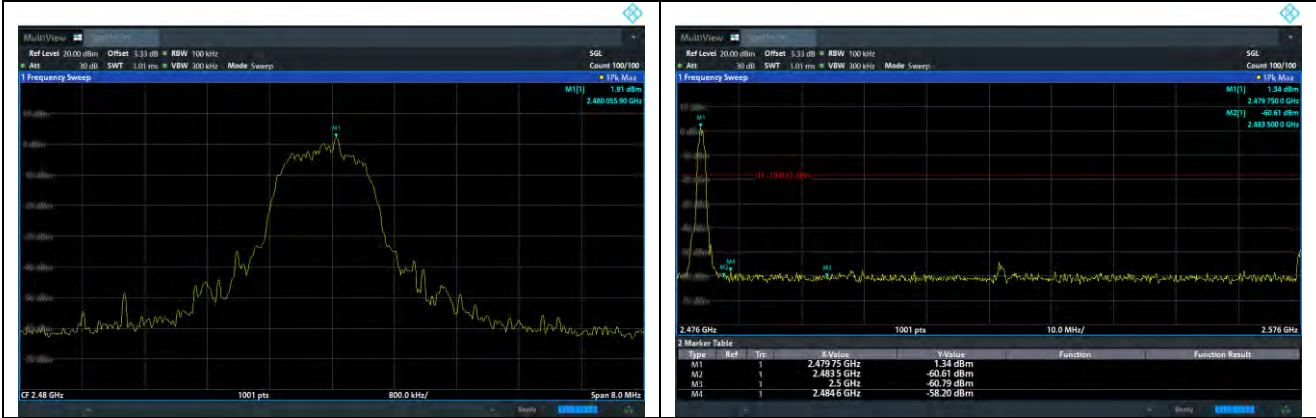
GFSK: Band Edge, Right Side



$\pi/4$ -DQPSK: Band Edge, Left Side



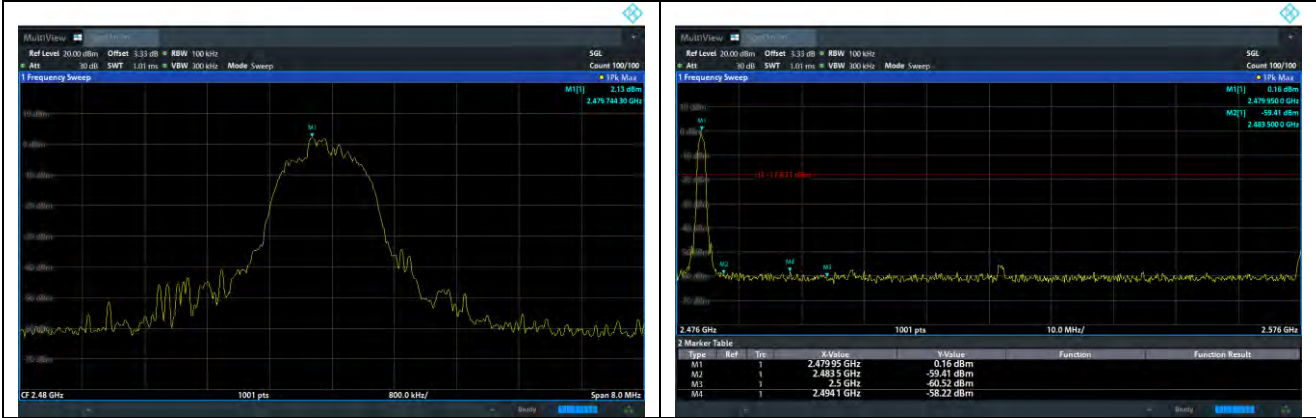
$\pi/4$ -DQPSK: Band Edge, Right Side



8DPSK: Band Edge, Left Side



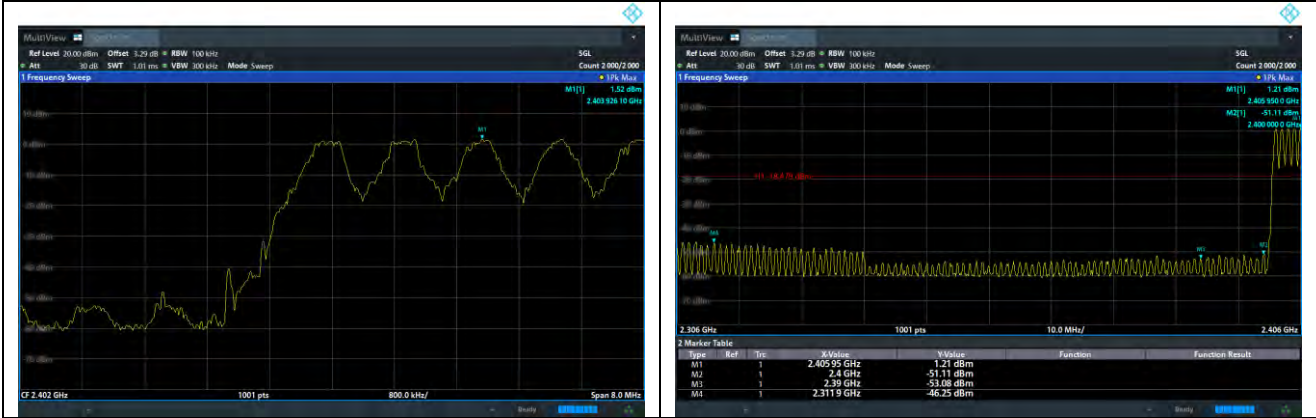
8DPSK: Band Edge, Right Side



Hopping Mode

Test plots

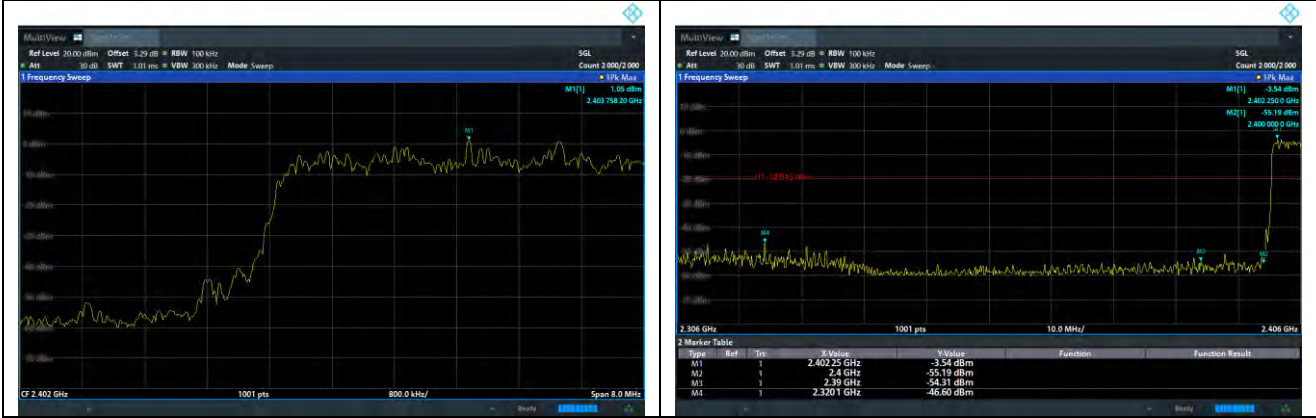
GFSK: Band Edge, Left Side



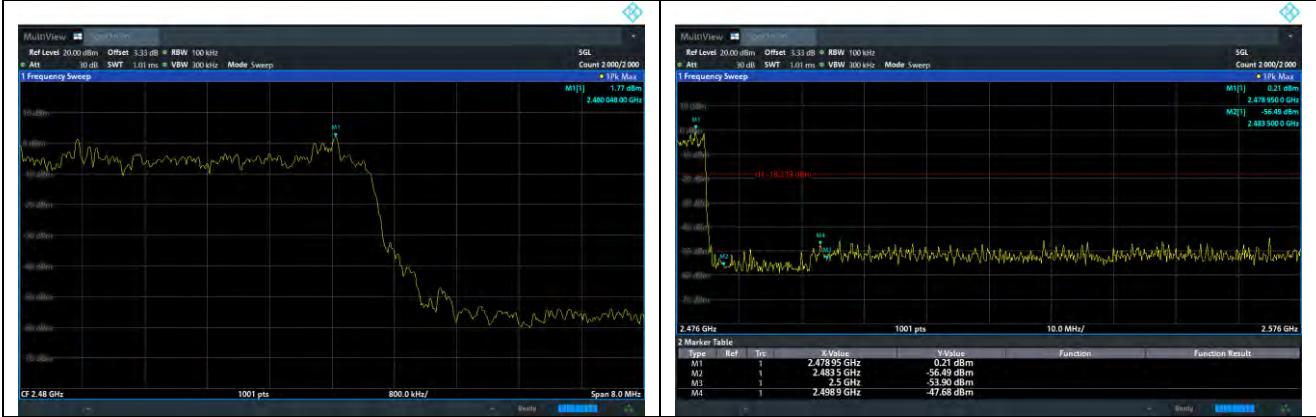
GFSK: Band Edge, Right Side



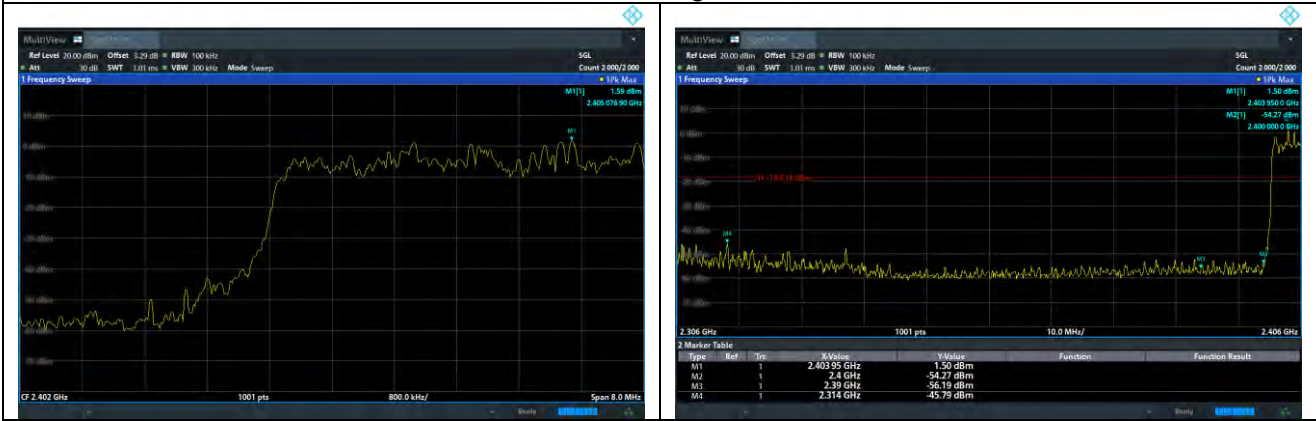
$\pi/4$ -DQPSK: Band Edge, Left Side



$\pi/4$ -DQPSK: Band Edge, Right Side



8DPSK: Band Edge, Left Side



8DPSK: Band Edge, Right Side



5.10 Spurious RF Conducted Emissions

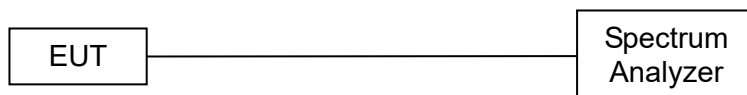
5.10.1 Limit

Below -20dB of the highest emission level in operating band.

5.10.2 Test Procedure

The Spurious RF conducted emissions compliance of RF radiated emission should be measured by following the guidance in ANSI C63.10-2020 with respect to maximizing the emission by rotating the EUT, measuring the emission while the EUT is situated in three orthogonal planes (if appropriate), adjusting the measurement antenna height and polarization etc. Set RBW=100kHz and VBW=300kHz to measure the peak field strength, and measure frequency range from 9kHz to 26.5GHz.

5.10.3 Test Setup



5.10.4 Test Results

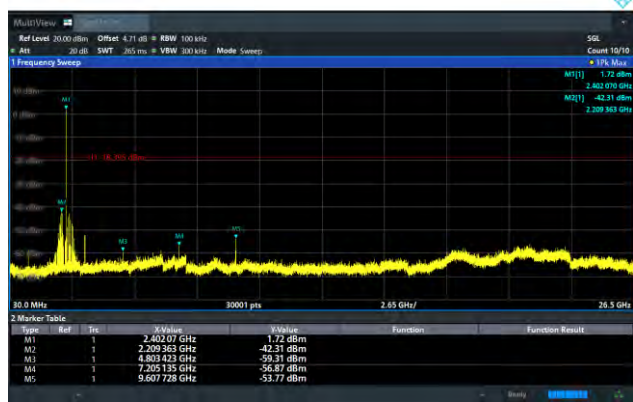
Note:

1: The measurement frequency range is from 9kHz to the 10th harmonic of the fundamental frequency. The lowest, middle and highest channels are tested to verify the spurious emissions and band edge measurement data.

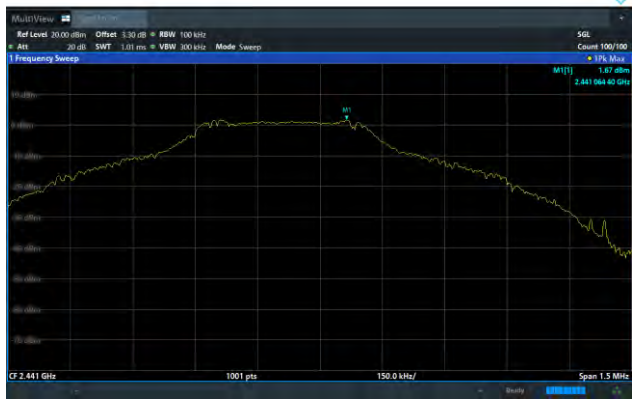
GFSK on Channel 00



GFSK on Channel 00



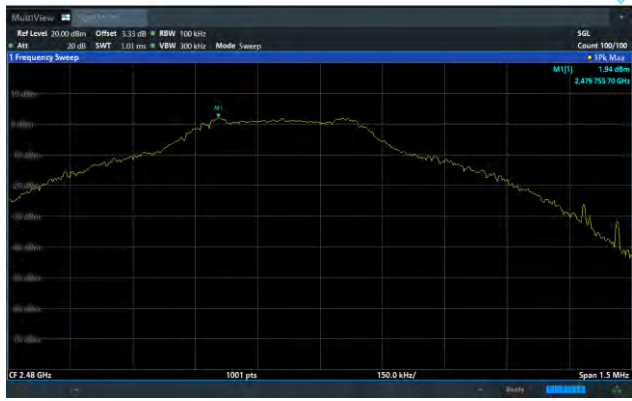
GFSK on Channel 39



GFSK on Channel 39



GFSK on Channel 78



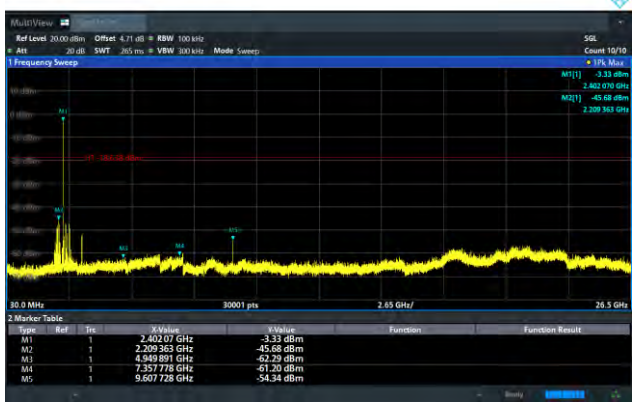
GFSK on Channel 78



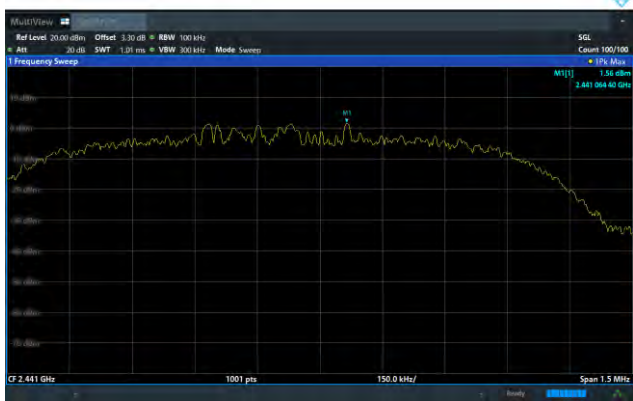
$\pi/4$ -DQPSK on Channel 00



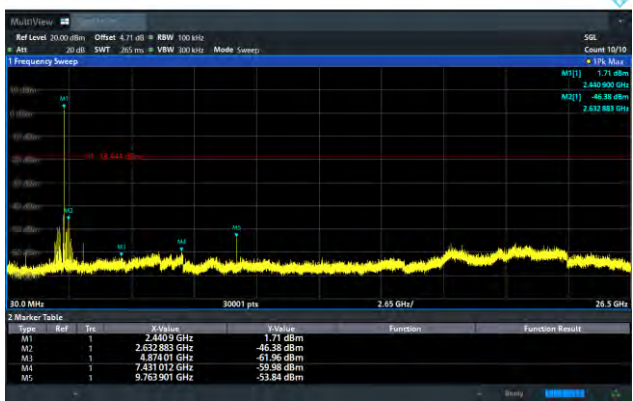
$\pi/4$ -DQPSK on Channel 00



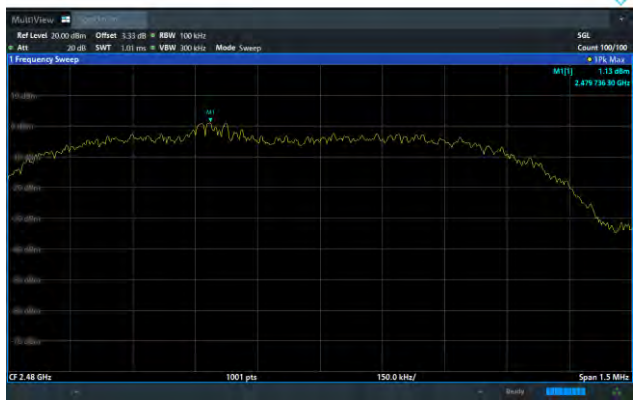
$\pi/4$ -DQPSK on Channel 39



$\pi/4$ -DQPSK on Channel 39



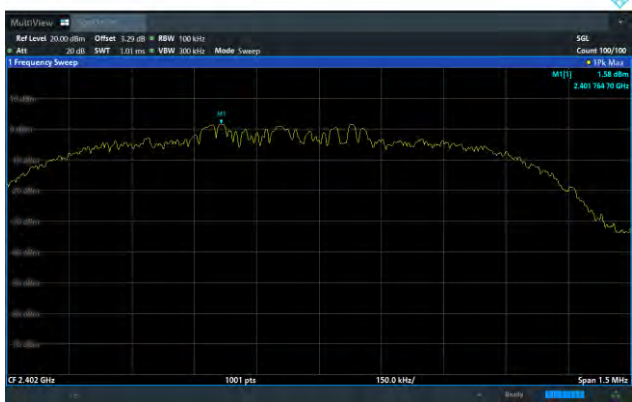
$\pi/4$ -DQPSK on Channel 78



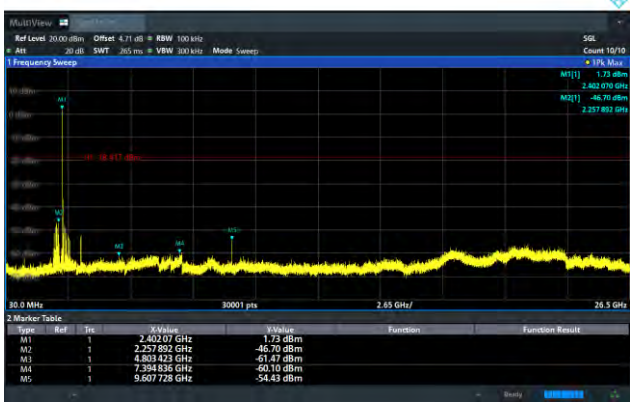
$\pi/4$ -DQPSK on Channel 78



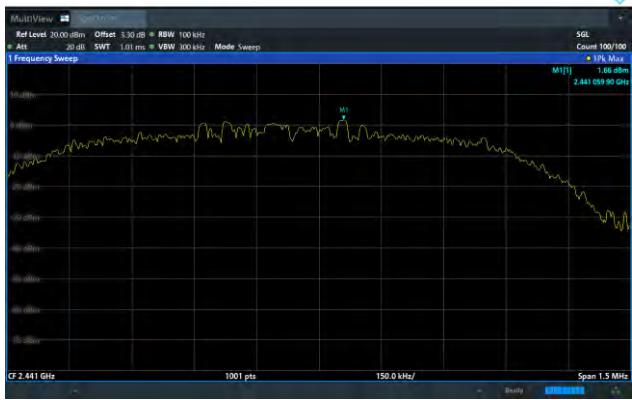
8DPSK on Channel 00



8DPSK on Channel 00



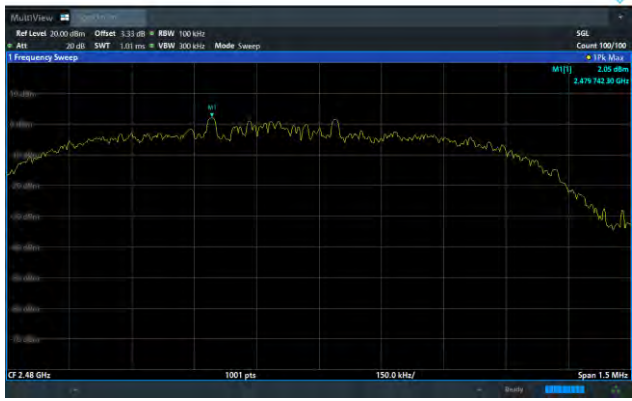
8DPSK on Channel 39



8DPSK on Channel 39



8DPSK on Channel 78



8DPSK on Channel 78



6 Photographs of the Test Setup

Radiated Emission Below 1GHz



Radiated Emission Above 1GHz



Conducted Emission

7 Photographs of the EUT

Photo 1



Photo 2



[illegible]

A small, cylindrical, silver and blue portable speaker is shown. The top silver cap features a central microphone, a power button, and several function buttons. The main body is blue with a silver mesh grille. A black cable is attached to the side. A wooden ruler is placed next to it for scale.

Photo 5



Photo 6



Photo 7



Photo 8

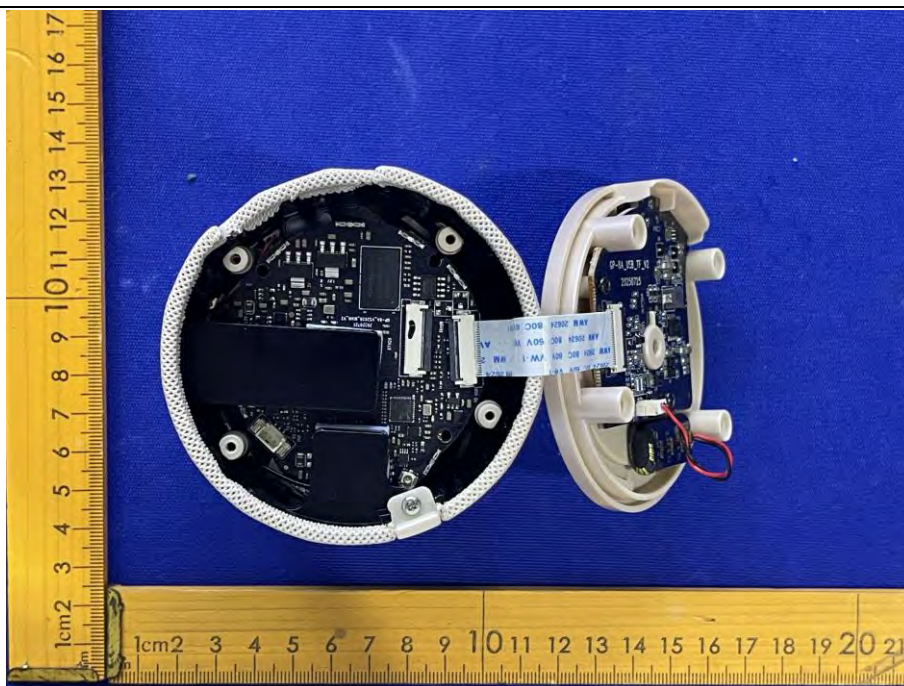


Photo 9

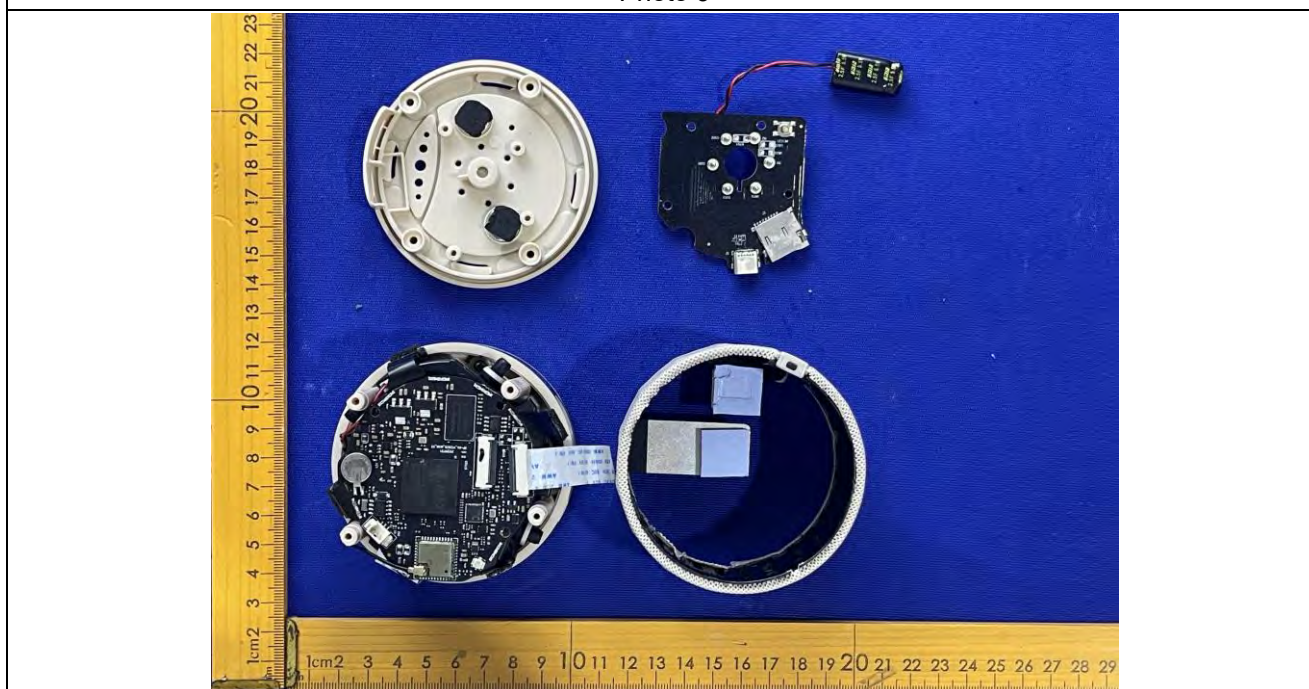


Photo 10

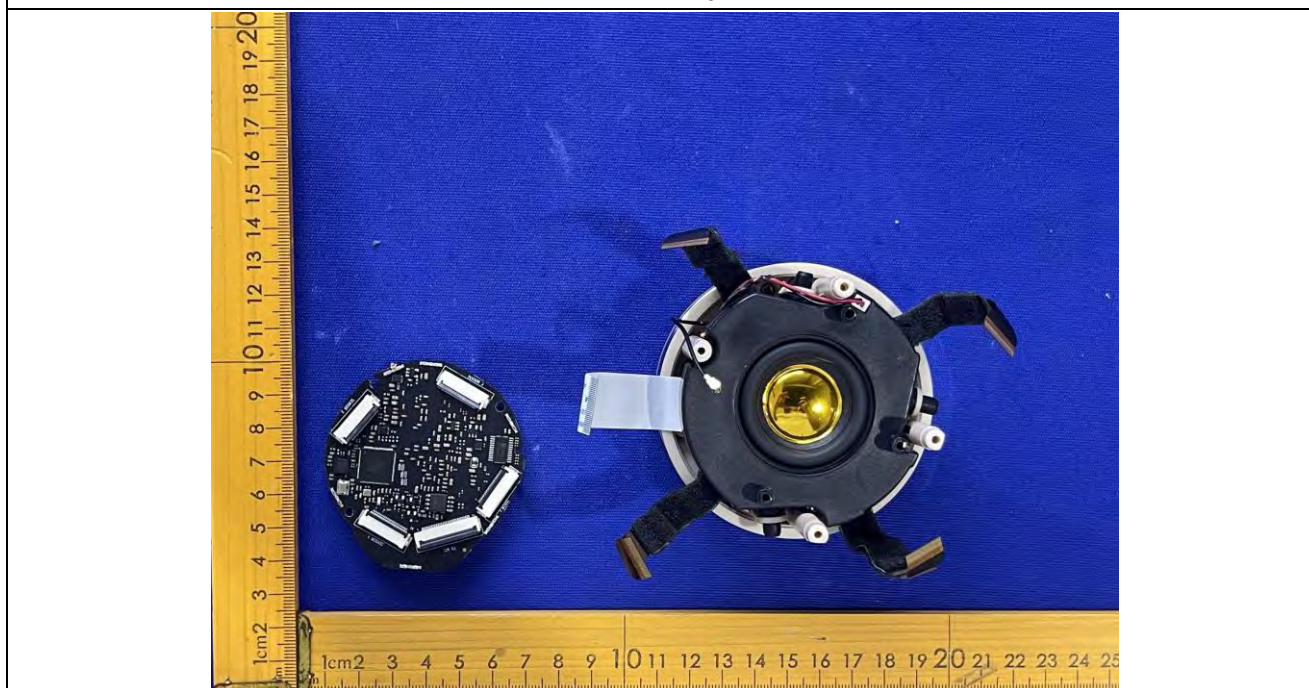


Photo 11

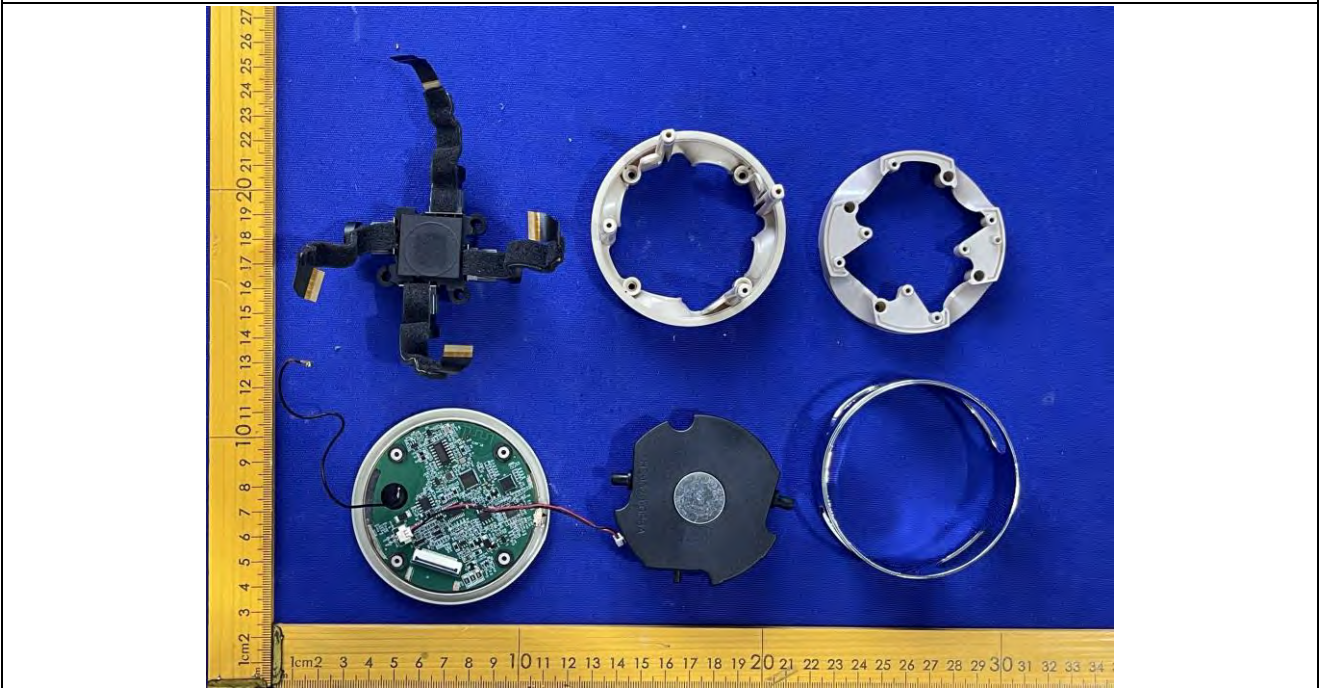


Photo 12

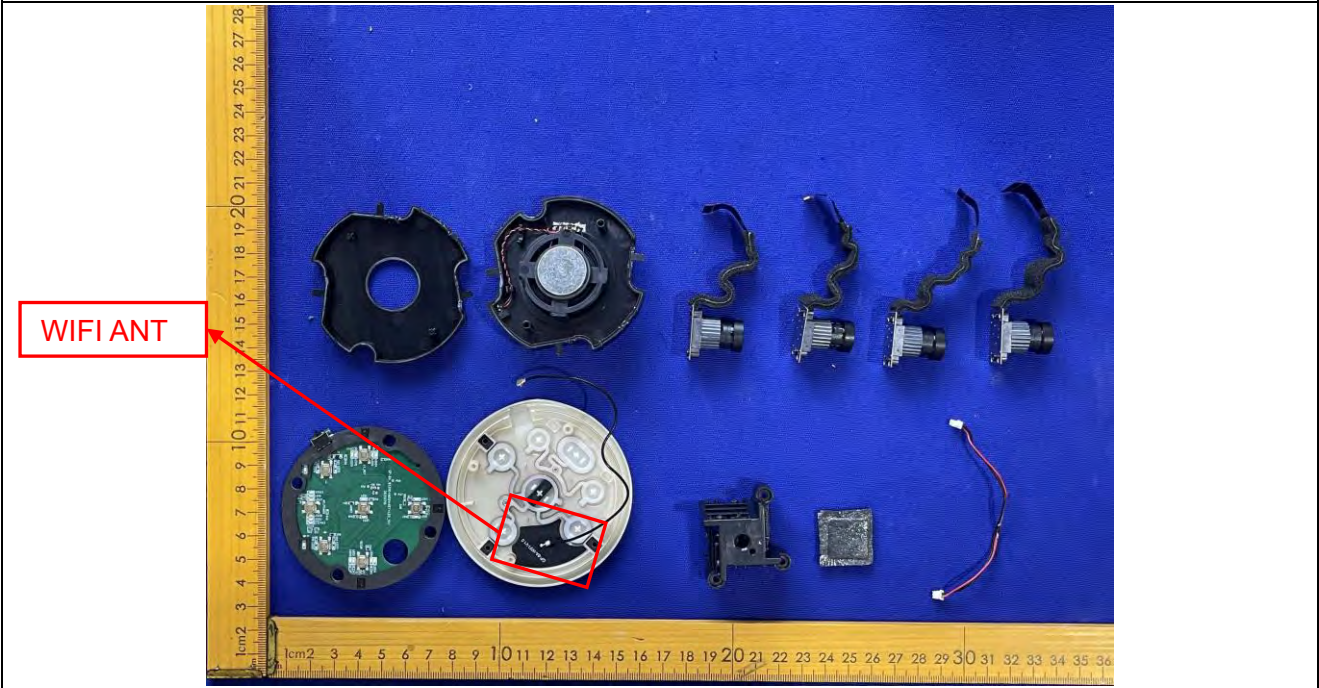


Photo 13

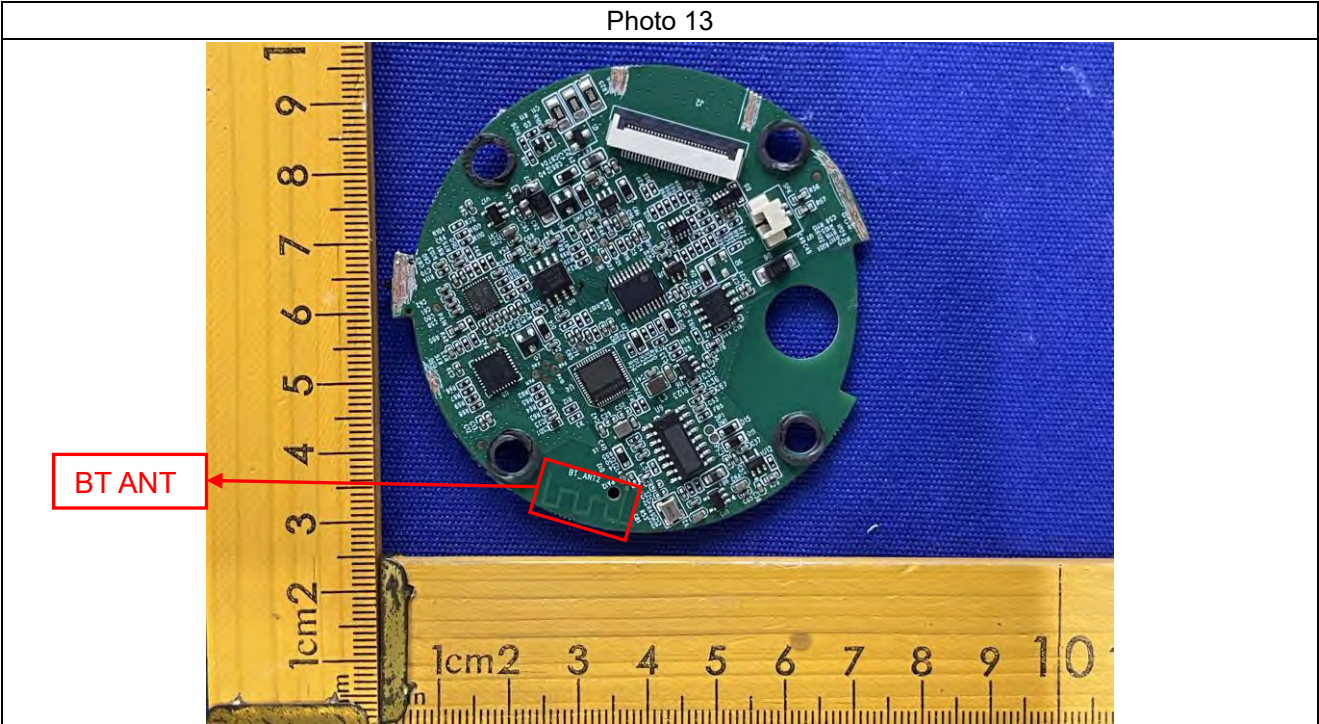


Photo 14

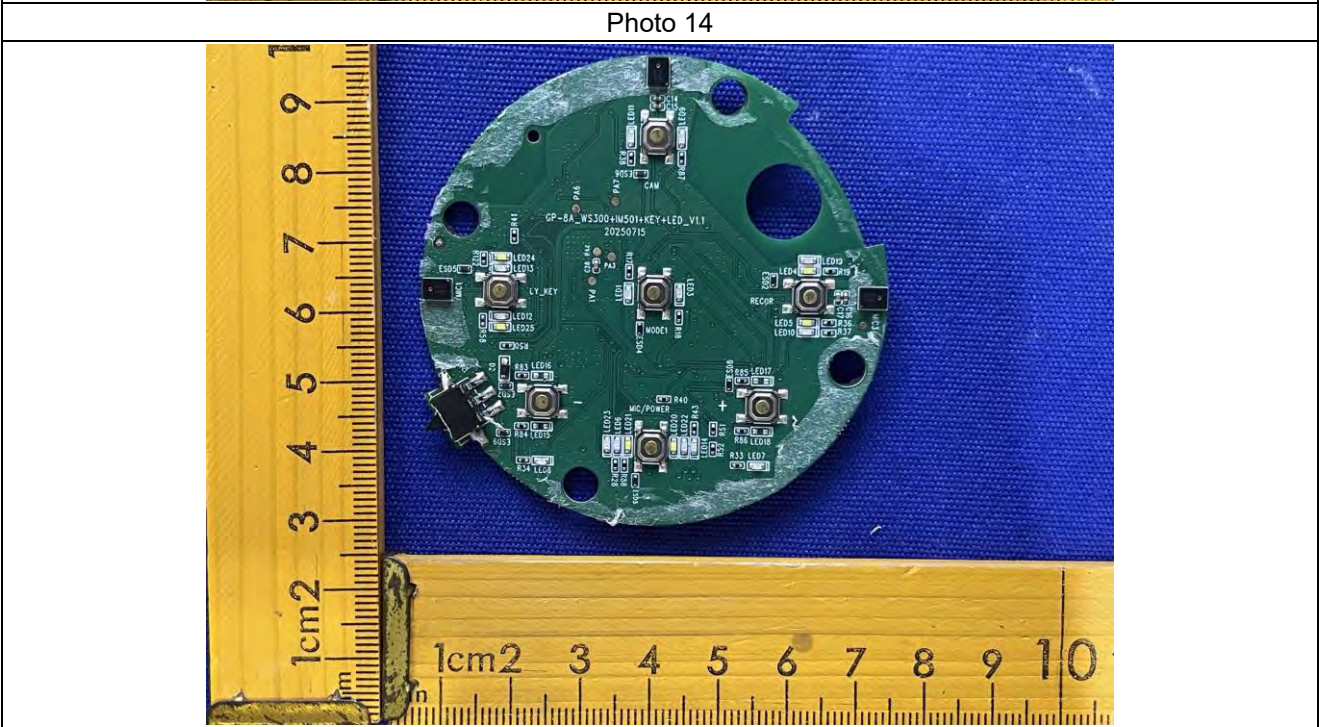


Photo 15

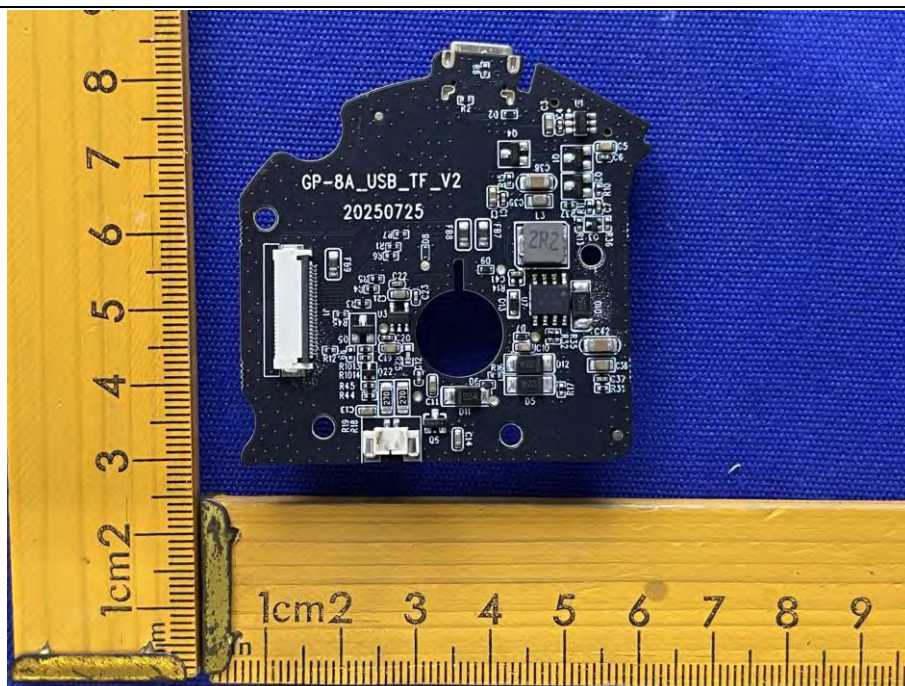


Photo 16

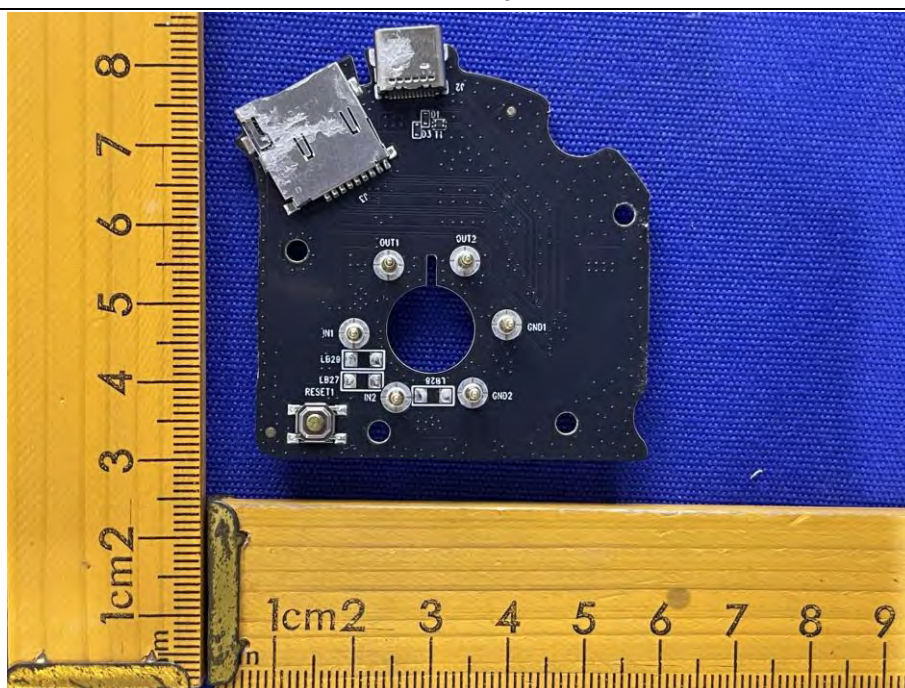


Photo 17

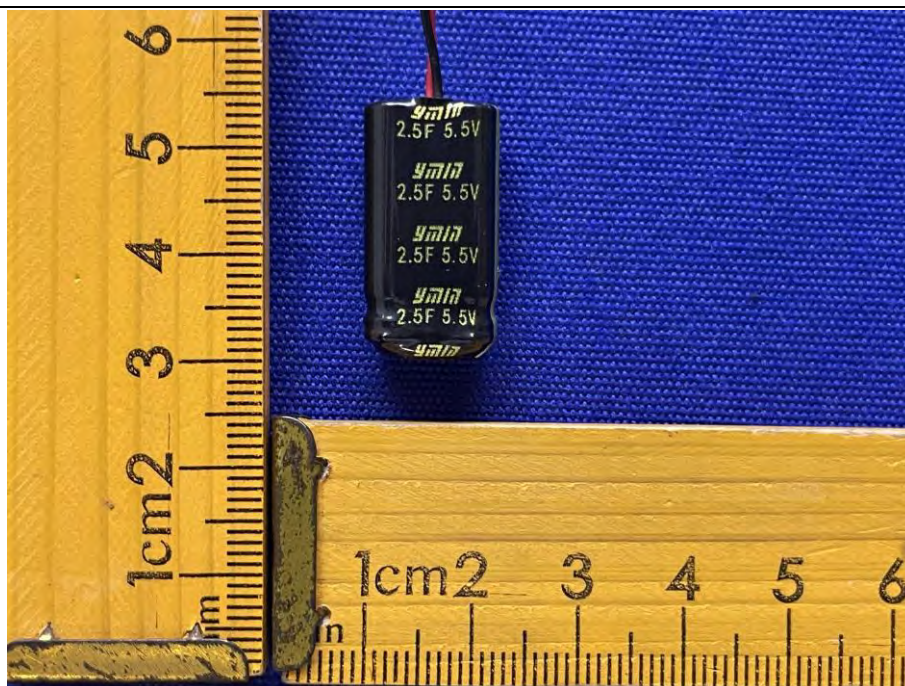


Photo 18

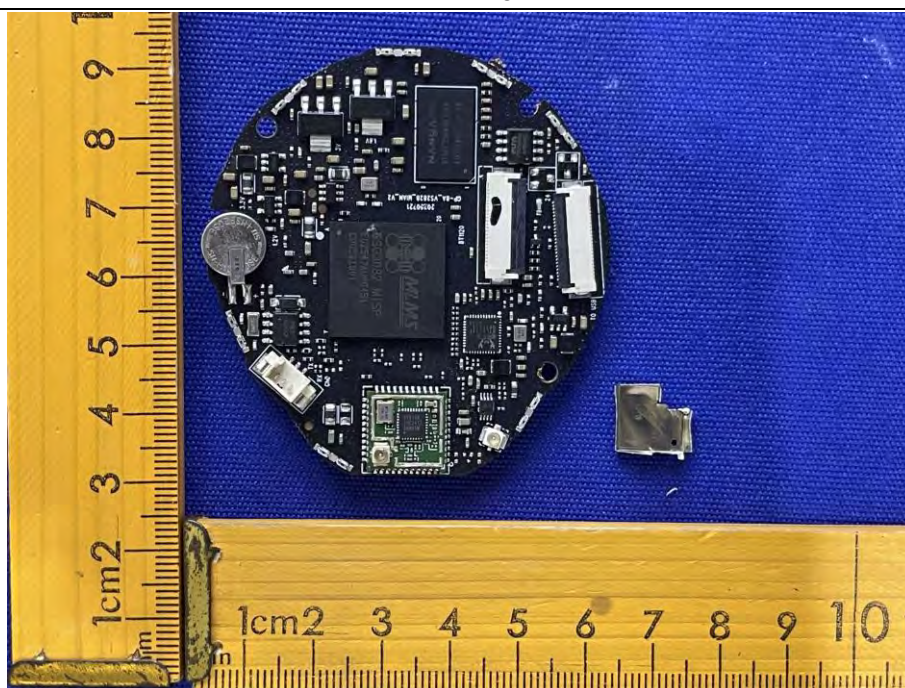


Photo 19

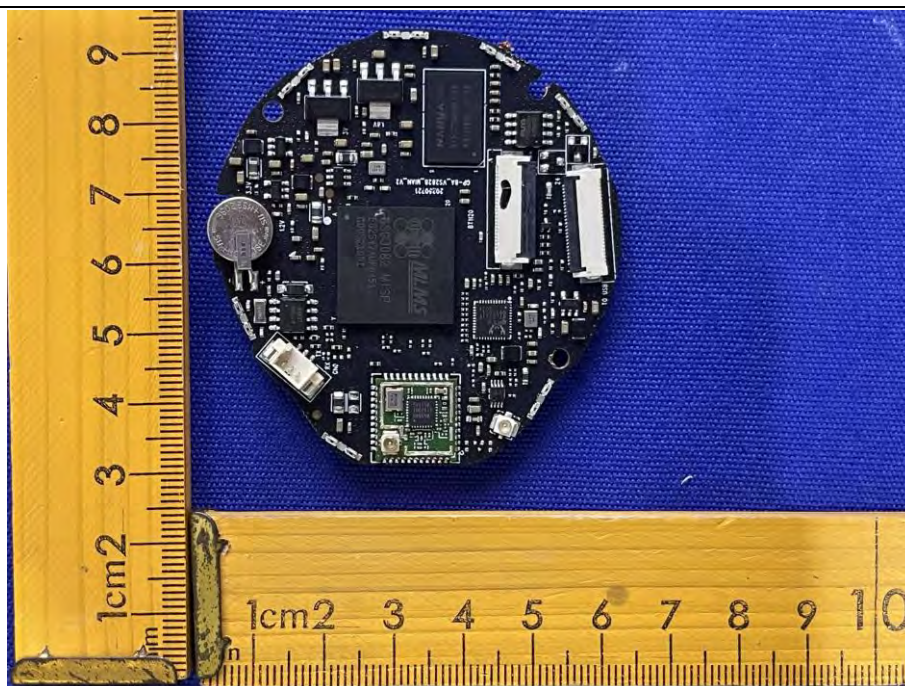


Photo 20

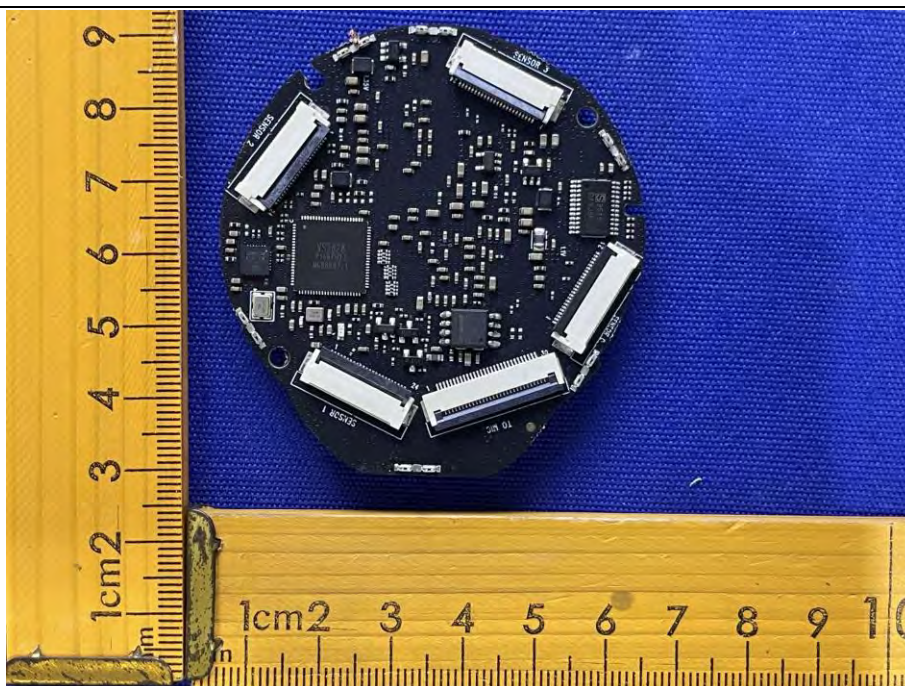


Photo 21

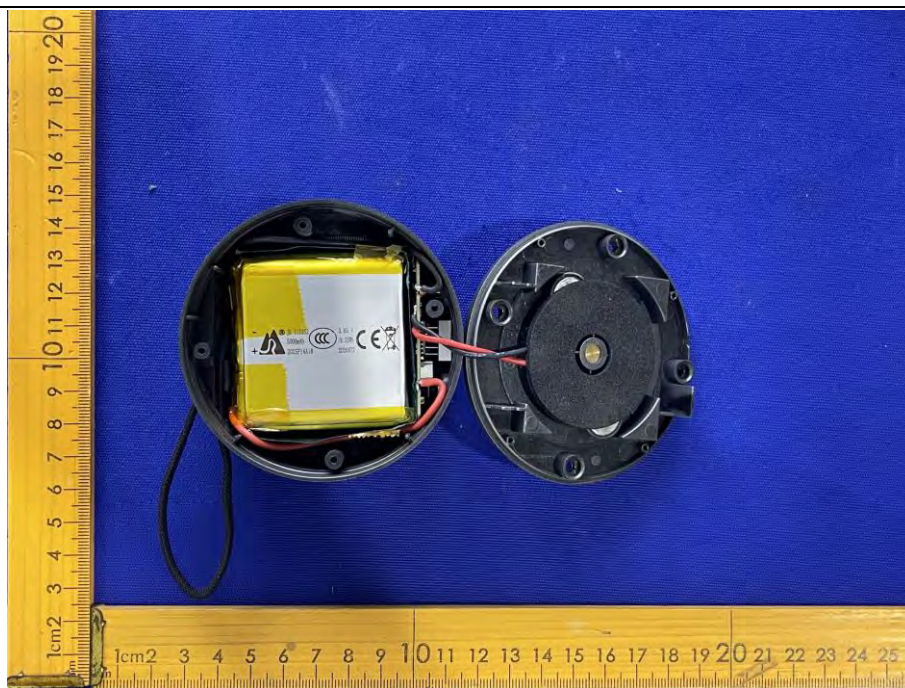


Photo 22

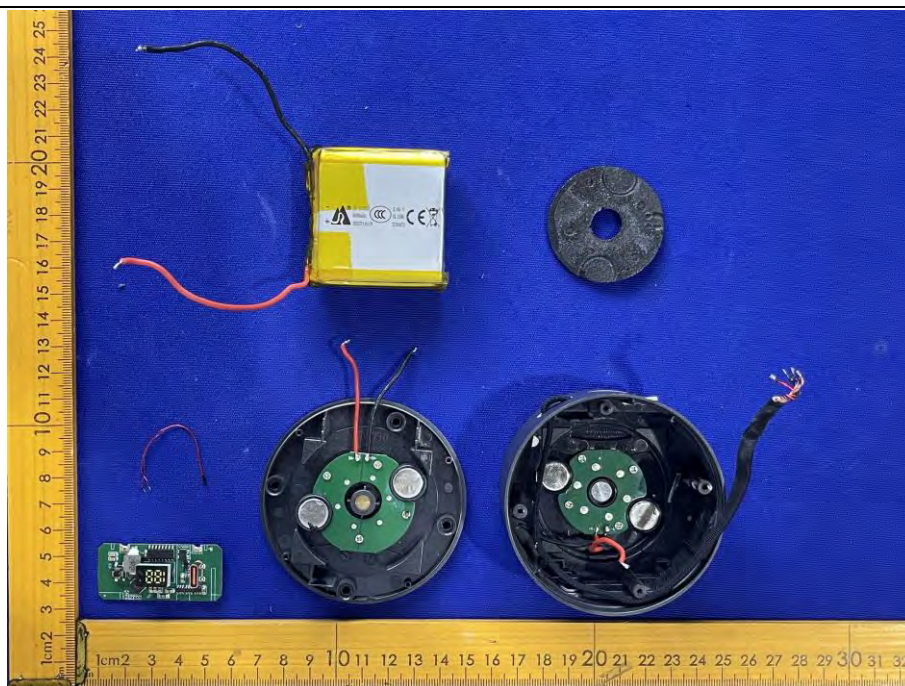


Photo 23



Photo 24

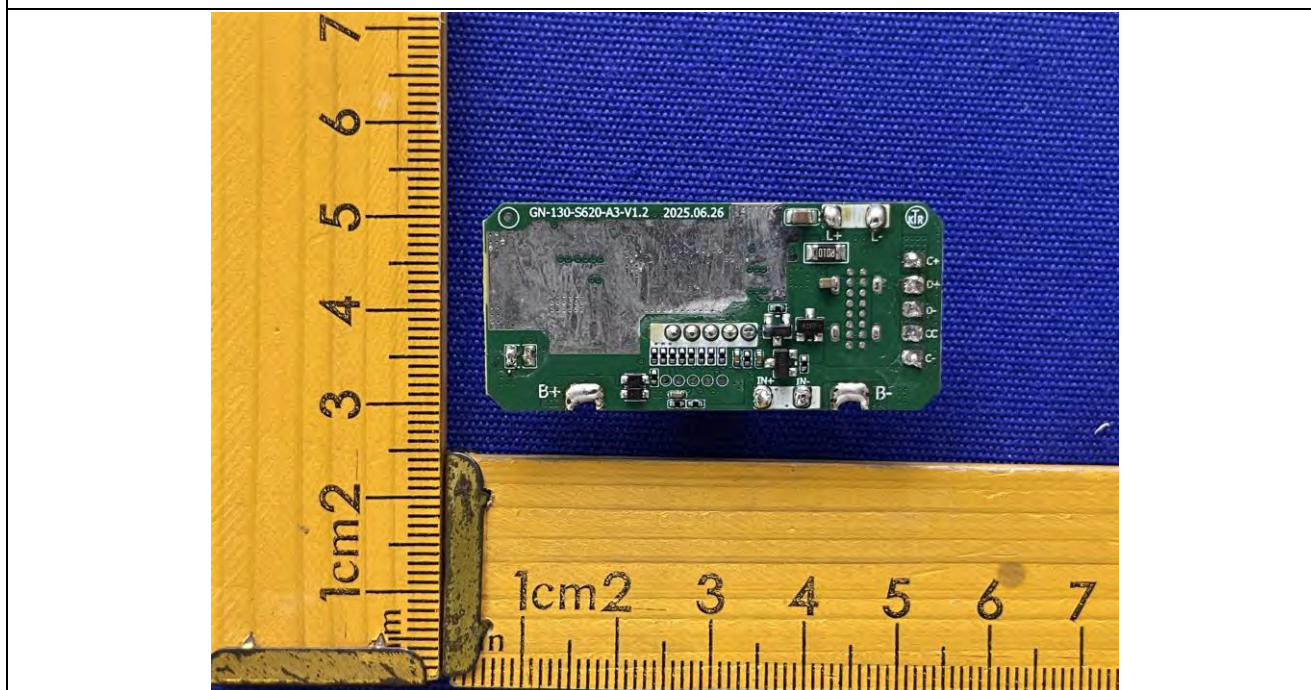


Photo 25

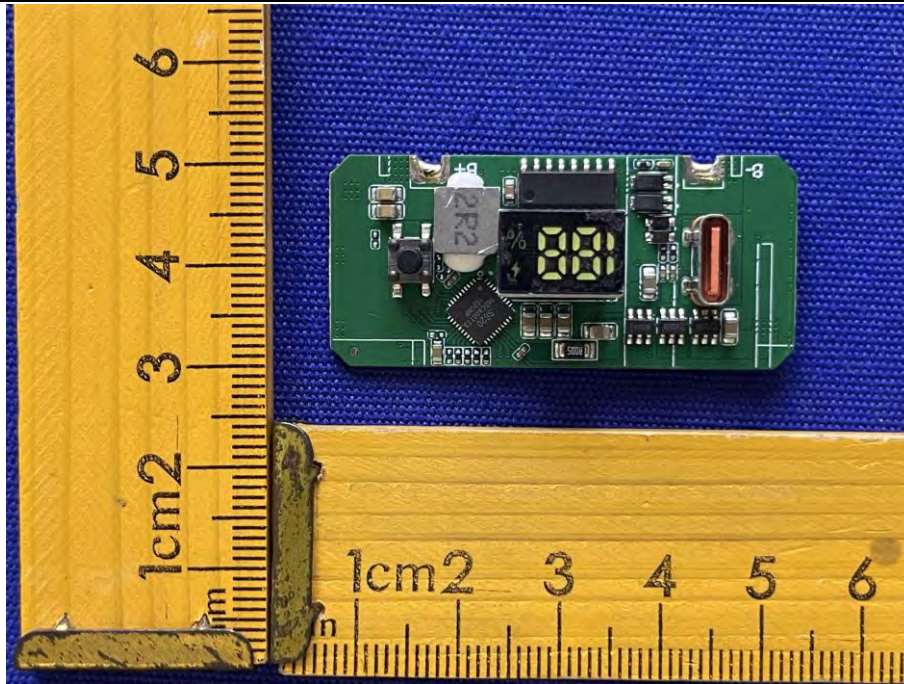
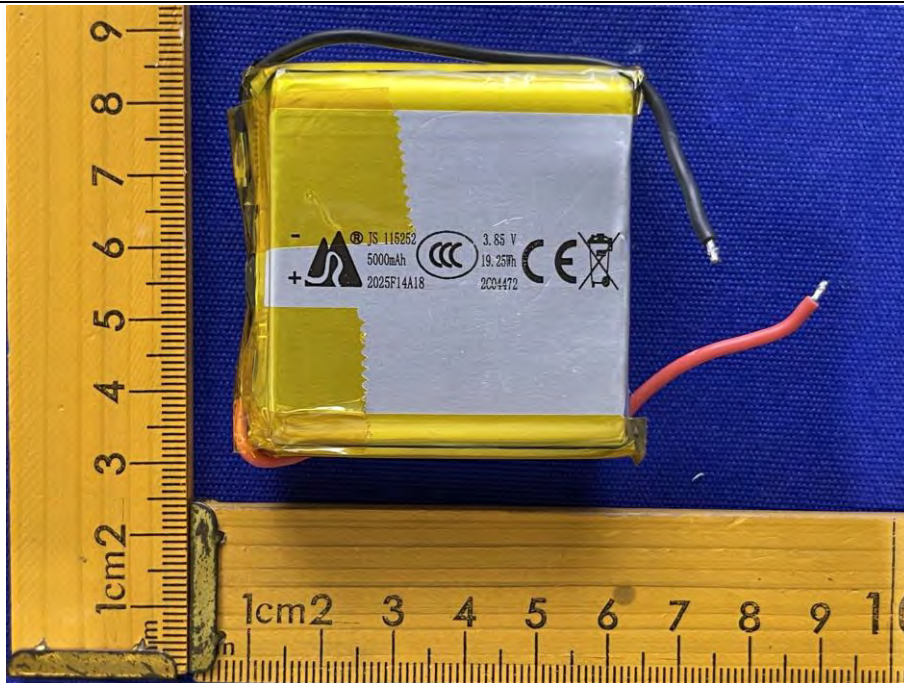


Photo 26



***** END OF REPORT *****