GTS Global United Technology Services Co., Ltd.

Report No.: GTS202208000120F01

TEST REPORT

Applicant:	ShenZhen FLYSKY Technology Co.,Ltd				
Address of Applicant:	16F, Huafeng Building, No. 6006 Shennan Road, Futian District, Shenzhen, Guangdong, China				
Manufacturer:	ShenZhen FLYSKY Technology Co.,Ltd				
Address of Manufacturer:	16F, Huafeng Building, No. 6006 Shennan Road, Futian District, Shenzhen, Guangdong, China				
Factory:	Dongguan Flysky RC Model technology Co.,Ltd				
Address of Factory:	West building 3, HuangjinyuanInd Park, Qiaoli North Gate, Changping Town, Dongguan, China				
Equipment Under Test (E	EUT)				
Product Name:	Digital Proportional Radio Control System				
Model No.:	EL18				
Trade Mark:	FLYSKY				
FCC ID:	2A2UNEL1800				
Applicable standards:	FCC CFR Title 47 Part 15 Subpart C Section 15.247				
Date of sample receipt:	August 11, 2022				
Date of Test:	August 12-24, 2022				
Date of report issued:	August 24, 2022				
Test Result :	PASS *				

* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:



Robinson Luo Laboratory Manager

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2 Version

Version No.	Date	Description
00	August 24, 2022	Original

Prepared By:

hantly

Date:

Date:

August 24, 2022

August 24, 2022

Project Engineer

Check By:

oppinson (un)

Reviewer

Report No.: GTS202208000120F01

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4 Test Summary

Test Item	Section	Result	
Antenna Requirement	15.203/15.247 (c)	Pass	
AC Power Line Conducted Emission	15.207	Pass	
Conducted Peak Output Power	15.247 (b)(1)	Pass	
20dB Occupied Bandwidth	15.247 (a)(1)	Pass	
Carrier Frequencies Separation	15.247 (a)(1)	Pass	
Hopping Channel Number	15.247 (a)(1)(iii)	Pass	
Dwell Time	15.247 (a)(1)(iii)	Pass	
Radiated Emission	15.205/15.209	Pass	
Band Edge	15.247(d)	Pass	

Pass: The EUT complies with the essential requirements in the standard. Remark : Test according to ANSI C63.10.

4.1 Measurement Uncertainty

Test Item	Frequency Range	Measurement Uncertainty	Notes
Radiated Emission	9kHz-30MHz	9kHz-30MHz 3.1dB	
Radiated Emission	30MHz-200MHz	3.8039dB	(1)
Radiated Emission	200MHz-1GHz	200MHz-1GHz 3.9679dB	
Radiated Emission	1GHz-18GHz	4.29dB	(1)
Radiated Emission	18GHz-40GHz	3.30dB	(1)
AC Power Line Conducted Emission	0.15MHz ~ 30MHz	3.44dB	(1)

Note (1): The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.

5 General Information

5.1 General Description of EUT

Product Name:	Digital Proportional Radio Control System		
Model No.:	EL18		
Serial No.:	2F005600		
Hardware version:	EL18-V1.0		
Software version:	EL18_1.0.9		
Test sample(s) ID: GTS202208000120-1			
Sample(s) Status	Engineer sample		
Operation Frequency:	2402.15MHz~2479.85MHz		
Channel numbers:	171		
Modulation method:	FHSS		
Modulation technology:	GMSK		
Antenna Type:	ANT 1: PCB Antenna		
Antenna Type.	ANT 2: FPC Antenna		
Antenna gain:	ANT 1: 2.83dBi		
	ANT 2: 3.04dBi		
Power supply:	DC 3.3-5.0V		

Remark: All two antennas transmitters were work in asynchronous status, MIMO mode is not supported .

The system works in the frequency range of 2402.15MHz to 2479.85MHz. This band has been divided to 171 independent channels. Each radio system uses 32 different channels; the minimum channel separation is ≥2.325MHz. By using various switch-on times, hopping scheme and channel frequencies, the system can guarantee a jamming free radio transmission. Pre-testing all radio systems, this radio system recorded in the report is the worst mode. The channel list is below.

The test frequencies are below:

Channel	Frequency
The lowest channel	2402.15MHz
The middle channel	2440.4MHz
The Highest channel	2479.85MHz

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Operation Frequency each of channel							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2402.15	44	2421.5	87	2440.85	130	2461.4
2	2402.6	45	2421.95	88	2441.3	131	2461.85
3	2403.05	46	2422.4	89	2441.75	132	2462.3
4	2403.5	47	2422.85	90	2442.2	133	2462.75
5	2403.95	48	2423.3	91	2442.65	134	2463.2
6	2404.4	49	2423.75	92	2443.1	135	2463.65
7	2404.85	50	2424.2	93	2444.75	136	2464.1
8	2405.3	51	2424.65	94	2445.2	137	2464.55
9	2405.75	52	2425.1	95	2445.65	138	2465
10	2406.2	53	2425.55	96	2446.1	139	2465.45
11	2406.65	54	2426	97	2446.55	140	2465.9
12	2407.1	55	2426.45	98	2447	141	2466.35
13	2407.55	56	2426.9	99	2447.45	142	2466.8
14	2408	57	2427.35	100	2447.9	143	2467.25
15	2408.45	58	2427.8	101	2448.35	144	2467.7
16	2408.9	59	2428.25	102	2448.8	145	2468.15
17	2409.35	60	2428.7	103	2449.25	146	2468.6
18	2409.8	61	2429.15	104	2449.7	147	2469.05
19	2410.25	62	2429.6	105	2450.15	148	2469.5
20	2410.7	63	2430.05	106	2450.6	149	2469.95
21	2411.15	64	2430.5	107	2451.05	150	2470.4
22	2411.6	65	2430.95	108	2451.5	151	2470.85
23	2412.05	66	2431.4	109	2451.95	152	2471.3
24	2412.5	67	2431.85	110	2452.4	153	2471.75
25	2412.95	68	2432.3	111	2452.85	154	2472.2
26	2413.4	69	2432.75	112	2453.3	155	2472.65
27	2413.85	70	2433.2	113	2453.75	156	2473.1
28	2414.3	71	2433.65	114	2454.2	157	2473.55
29	2414.75	72	2434.1	115	2454.65	158	2474
30	2415.2	73	2434.55	116	2455.1	159	2474.45
31	2415.65	74	2435	117	2455.55	160	2474.9
32	2416.1	75	2435.45	118	2456	161	2475.35
33	2416.55	76	2435.9	119	2456.45	162	2475.8
34	2417	77	2436.35	120	2456.9	163	2476.25
35	2417.45	78	2436.8	121	2457.35	164	2476.7
36	2417.9	79	2437.25	122	2457.8	165	2477.15
37	2418.35	80	2437.7	123	2458.25	166	2477.6
38	2418.8	81	2438.15	124	2458.7	167	2478.05

Global United Technology Services Co., Ltd.

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	Section 201		Report	No.: GTS2022	08000120F01		
39	2419.25	82	2438.6	125	2459.15	168	2478.5
40	2419.7	83	2439.05	126	2459.6	169	2478.95
41	2420.15	84	2439.5	127	2460.05	170	2479.4
42	2420.6	85	2439.95	128	2460.5	171	2479.85
43	2421.05	86	2440.4	129	2460.95		



5.2 Test mode

	Transmitting mode	Keep the EUT in transmitting mode.						
		Remark: During the test, the duty cycle >98%, the test voltage is adjusted from DC3.3V to DC5.0V, and found that the worst case was DC5.0V. So the report just shows that condition's data.						
5.3	Test Facility							
	 FCC —Registration Ne Designation Number: CN Global United Technology described in a report filed from the FCC is maintaine IC —Registration No.: CAB identifier: CN0091 The 3m Semi-anechoic cl Certification and Enginee NVLAP (LAB CODE:60 	5029 / Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully with the (FCC) Federal Communications Commission. The acceptance letter ed in files. 9079A mamber of Global United Technology Services Co., Ltd. has been registered by ring Bureau of Industry Canada for radio equipment testing. 00179-0) / Services Co., Ltd., is accredited by the National Voluntary Laboratory						
5.4	Test Location							
	All other tests were performed	med at:						
	Global United Technology Services Co., Ltd. Address: No. 123-128, Tower A, Jinyuan Business Building, No.2, Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102 Tel: 0755-27798480 Fax: 0755-27798960							
	Description of Comport Units							

5.5 Description of Support Units

Manufacturer	Description	Model	Serial Number	
APPLE	USB Charger	A1399	N/A	
Supplied by client	Li-ion battery	N/A	N/A	
Sony	Earphone	EX-900	N/A	

5.6 Deviation from Standards

None.

5.7 Abnormalities from Standard Conditions

None.

5.8 Additional Instructions

Software (Used for test) from client

Built-in by manufacturer, power set default.

6 Test Instruments list

Rad	Radiated Emission:						
ltem	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)	
1	3m Semi- Anechoic Chamber	ZhongYu Electron	9.2(L)*6.2(W)* 6.4(H)	GTS250	July 02, 2020	July 01, 2025	
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A	
3	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	April 22, 2022	April 21, 2023	
4	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9168	GTS640	March 21, 2022	March 20, 2023	
5	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120 D	GTS208	June 12, 2022	June 11, 2023	
6	Horn Antenna	ETS-LINDGREN	3160	GTS217	June 23, 2022	June 22, 2023	
7	EMI Test Software	AUDIX	E3	N/A	N/A	N/A	
8	Coaxial Cable	GTS	N/A	GTS213	April 22, 2022	April 21, 2023	
9	Coaxial Cable	GTS	N/A	GTS211	April 22, 2022	April 21, 2023	
10	Coaxial cable	GTS	N/A	GTS210	April 22, 2022	April 21, 2023	
11	Coaxial Cable	GTS	N/A	GTS212	April 22, 2022	April 21, 2023	
12	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	April 22, 2022	April 21, 2023	
13	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	June 23, 2022	June 22, 2023	
14	Band filter	Amindeon	82346	GTS219	June 23, 2022	June 22, 2023	
15	Power Meter	Anritsu	ML2495A	GTS540	June 23, 2022	June 22, 2023	
16	Power Sensor	Anritsu	MA2411B	GTS541	June 23, 2022	June 22, 2023	
17	Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	GTS575	April 22, 2022	April 21, 2023	
18	Splitter	Agilent	11636B	GTS237	June 23, 2022	June 22, 2023	
19	Loop Antenna	ZHINAN	ZN30900A	GTS534	Nov. 30, 2021	Nov. 29, 2022	
20	Broadband Preamplifier	SCHWARZBECK	BBV9718	GTS535	April 22, 2022	April 21, 2023	
21	Breitband hornantenna	SCHWARZBECK	BBHA 9170	GTS579	Oct. 17, 2021	Oct. 16, 2022	
22	Amplifier	TDK	PA-02-02	GTS574	Oct. 17, 2021	Oct. 16, 2022	
23	Amplifier	TDK	PA-02-03	GTS576	Oct. 17, 2021	Oct. 16, 2022	
24	PSA Series Spectrum Analyzer	Rohde & Schwarz	FSP	GTS578	June 23, 2022	June 22, 2023	
25	Amplifier(1GHz-26.5GHz)	HP	8449B	GTS601	April 22, 2022	April 21, 2023	



Co	Conducted Emission					
Iter	n Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	Shielding Room	ZhongYu Electron	7.3(L)x3.1(W)x2.9(H)	GTS252	May 14, 2022	May 13, 2025
2	EMI Test Receiver	R&S	ESCI 7	GTS552	April 24, 2022	April 23, 2023
3	Coaxial Switch	ANRITSU CORP	MP59B	GTS225	June 23, 2022	June 22, 2023
4	ENV216 2-L-V- NETZNACHB.DE	ROHDE&SCHWARZ	ENV216	GTS226	April 22, 2022	April 21, 2023
5	Coaxial Cable	GTS	N/A	GTS227	N/A	N/A
6	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
7	Thermo meter	JINCHUANG	GSP-8A	GTS639	April 28, 2022	April 27, 2023
8	Absorbing clamp	Elektronik- Feinmechanik	MDS21	GTS229	April 15, 2022	April 14, 2023
9	ISN	SCHWARZBECK	NTFM 8158	GTS565	April 22, 2022	April 21, 2023
10	High voltage probe	SCHWARZBECK	TK9420	GTS537	April 22, 2022	April 21, 2023

RF C	RF Conducted Test:					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	MXA Signal Analyzer	Agilent	N9020A	GTS566	April 22, 2022	April 21, 2023
2	EMI Test Receiver	R&S	ESCI 7	GTS552	April 22, 2022	April 21, 2023
3	Spectrum Analyzer	Agilent	E4440A	GTS536	April 22, 2022	April 21, 2023
4	MXG vector Signal Generator	Agilent	N5182A	GTS567	April 22, 2022	April 21, 2023
5	ESG Analog Signal Generator	Agilent	E4428C	GTS568	April 22, 2022	April 21, 2023
6	USB RF Power Sensor	DARE	RPR3006W	GTS569	April 22, 2022	April 21, 2023
7	RF Switch Box	Shongyi	RFSW3003328	GTS571	April 22, 2022	April 21, 2023
8	Programmable Constant Temp & Humi Test Chamber	WEWON	WHTH-150L-40-880	GTS572	April 22, 2022	April 21, 2023

Gen	General used equipment:					
ltem	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	Humidity/ Temperature Indicator	KTJ	TA328	GTS243	April 25, 2022	April 24, 2023
2	Barometer	KUMAO	SF132	GTS647	July 26, 2022	July 25, 2023

Global United Technology Services Co., Ltd. No. 123-128, Tower A, Jinyuan Business Building, No.2, Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102 Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



7 Test results and Measurement Data

7.1 Antenna requirement

Standard requirement:	FCC Part15 C Section 15.203 /247(c)
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15.203 requirement:

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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(c) (1)(i) requirement:

(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

EUT Antenna:

The antenna 1 is PCB antenna, antenna 2 is FPC antenna, reference to the appendix II for details.

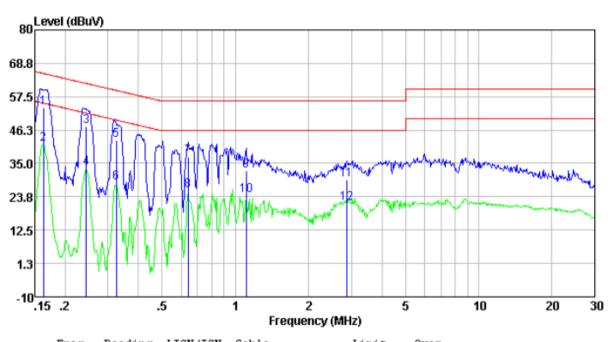
7.2 Conducted Emissions

1.4	Conducted Limssions							
	Test Requirement:	FCC Part15 C Section 15.207						
	Test Method:	ANSI C63.10						
	Test Frequency Range:	150KHz to 30MHz						
	Class / Severity:	Class B	Class B					
	Receiver setup:	RBW=9KH	z, VBW=30K	Hz, Sweep ti	me=auto			
	Limit:				Limit	(dBuV)		
		Frequer	icy range (MH	lz) Qi	uasi-peak	Ave	rage	
2			0.15-0.5		66 to 56*	56 to	o 46*	
			0.5-5		56	4	6	
			5-30		60	5	0	
		* Decrease	s with the log	arithm of the	frequency.			
	Test setup:		Reference	e Plane		_		
		Remark: E.U.T: Equipmen	/Insulation plane	EMI Receive	∐ =ilter } AC p :r	ower		
	Test procedure:	line impe 50ohm/5 2. The peri LISN tha terminat photogra 3. Both sid interfere positions	edance stabil 50uH coupling pheral device at provides a ion. (Please r aphs). es of A.C. line nce. In order s of equipmer	ization netwo g impedance es are also co 500hm/50uH efer to the bl e are checke to find the m nt and all of t	nected to the ork (L.I.S.N.). for the meas onnected to th coupling imp ock diagram d for maximu aximum emis ne interface c n conducted r	This provide uring equipm he main powe edance with of the test se m conducted sion, the rela- ables must b	s a hent. er through a 50ohm etup and d ative be changed	
	Test Instruments:	Refer to se	ction 6.0 for a	letails				
	Test mode:	Refer to section 5.2 for details						
	Test environment:	Temp.:	25 °C	Humid.:	52%	Press.:	1012mbar	
	Test results:	Pass						
ALC: NO. THEY		100 100 10 10 10 10 10 10 10 10 10 10 10	1. The Second Second	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	NUTS THE NUTS TO	20 20 20 20 20 20 20	In the table to the	

Measurement data

Pre-scan all test modes, found worst case at 2440.4MHz@ Ant 1, and so only show the test result of 2440.4MHz@ Ant 1

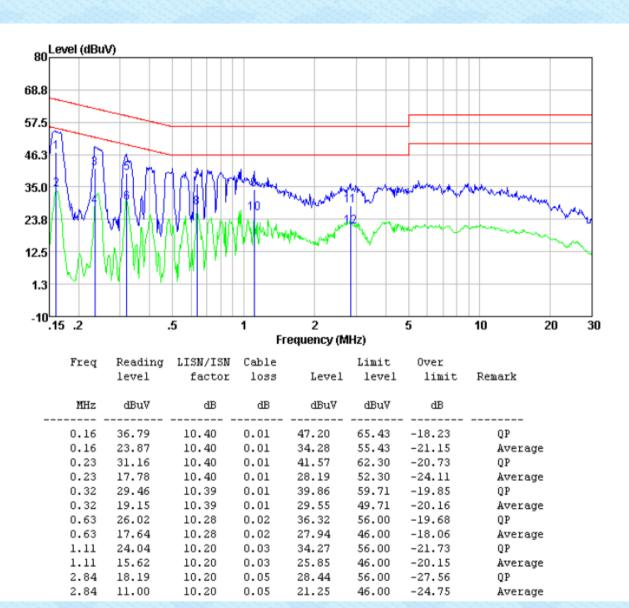
Line:



MHzdBuVdBdBdBdBuVdBuVdB0.1643.2710.400.0153.6865.34-11.66QP0.1631.0810.400.0141.4955.34-13.85Average0.2436.8910.400.0147.3061.95-14.65QP0.2422.9810.400.0133.3951.95-18.56Average0.3232.3610.390.0142.7659.62-16.86QP0.3218.2410.390.0128.6449.62-20.98Average0.6426.9110.270.0237.2056.00-18.80QP0.6415.5210.270.0225.8146.00-20.19Average1.1122.2910.200.0324.2046.00-21.80Average2.8719.4110.200.0529.6656.00-26.34QP2.8711.4010.200.0521.6546.00-24.35Average	Freq	Reading level	LISN/ISN factor	Cable loss	Level	Limit level	Over limit	Remark	
0.16 31.08 10.40 0.01 41.49 55.34 -13.85 Average 0.24 36.89 10.40 0.01 47.30 61.95 -14.65 QP 0.24 22.98 10.40 0.01 33.39 51.95 -18.56 Average 0.32 32.36 10.39 0.01 42.76 59.62 -16.86 QP 0.32 18.24 10.39 0.01 28.64 49.62 -20.98 Average 0.64 26.91 10.27 0.02 37.20 56.00 -18.80 QP 0.64 15.52 10.27 0.02 25.81 46.00 -20.19 Average 1.11 22.29 10.20 0.03 32.52 56.00 -23.48 QP 1.11 13.97 10.20 0.03 24.20 46.00 -21.80 Average 2.87 19.41 10.20 0.05 29.66 56.00 -26.34 QP	MHz	dBuV	dB	dB	dBuV	dBu∛	dB		
	0.16 0.24 0.24 0.32 0.32 0.64 0.64 1.11	31.08 36.89 22.98 32.36 18.24 26.91 15.52 22.29	10.40 10.40 10.39 10.39 10.27 10.27 10.27	0.01 0.01 0.01 0.01 0.01 0.02 0.02 0.02	41.49 47.30 33.39 42.76 28.64 37.20 25.81 32.52	55.34 61.95 51.95 59.62 49.62 56.00 46.00 56.00	-13.85 -14.65 -18.56 -16.86 -20.98 -18.80 -20.19 -23.48	Average QP Average QP Average QP Average QP	
								-	

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Neutral:



Notes:

- 1. An initial pre-scan was performed on the line and neutral lines with peak detector.
- 2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- 3. Final Level =Receiver Read level + LISN Factor + Cable Loss
- 4. If the average limit is met when using a quasi-peak detector receiver, the EUT shall be deemed to meet both limits and measurement with the average detector receiver is unnecessary.



Test Requirement:	FCC Part15 C Section 15.247(a)(1)	
Test Method:	ANSI C63.10	
Limit:	20.97dBm	
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane	
Test Instruments:	Refer to section 6.0 for details	
Test mode:	Refer to section 5.2 for details	
Test results:	Pass	

7.3 Conducted Peak Output Power



Test Requirement:	FCC Part15 C Section 15.247 (a)(1)	
Test Method:	ANSI C63.10	
Limit:	N/A	
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane	
Test Instruments:	Refer to section 6.0 for details	
Test mode:	Refer to section 5.2 for details	
Test results:	Pass	

7.4 20dB Emission Bandwidth



Test Requirement:	FCC Part15 C Section 15.247 (a)(1)	
Test Method:	ANSI C63.10	
Receiver setup:	RBW=100KHz, VBW=300KHz, detector=Peak	
Limit:	0.025MHz or 2/3 of the 20dB bandwidth (whichever is greater)	
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane	
Test Instruments:	Refer to section 6.0 for details	
Test mode:	Refer to section 5.2 for details	
Test results:	Pass	

7.5 Carrier Frequencies Separation



······································			
Test Requirement:	FCC Part15 C Section 15.247 (a)(1)(iii)		
Test Method:	ANSI C63.10		
Receiver setup:	RBW=100kHz, VBW=300kHz, Frequency range=2400MHz-2483.5MHz, Detector=Peak		
Limit:	15 channels		
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane		
Test Instruments:	Refer to section 6.0 for details		
Test mode:	Refer to section 5.2 for details		
Test results:	Pass		

7.6 Hopping Channel Number

7.7 Dwell Time

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)(iii)		
Test Method:	ANSI C63.10		
Receiver setup:	RBW=1MHz, VBW=1MHz, Span=0Hz, Detector=Peak		
Limit:	0.4 Second		
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane		
Test Instruments:	Refer to section 6.0 for details		
Test mode:	Refer to section 5.2 for details		
Test results:	Pass		



7.8 Spurious Emission in Non-restricted & restricted Bands

7.8.1 Conducted Emission Method

Test Requirement:	FCC Part15 C Section 15.247 (d)	
Test Method:	ANSI C63.10	
Receiver setup:	RBW=100kHz, VBW=300kHz, Detector=Peak	
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum 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.	
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane	
Test Instruments:	Refer to section6.0 for details	
Test mode:	Refer to section 5.2 for details	
Test results:	Pass	



7.8.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209 and 15.205							
Test Method:	ANSI C63.10			1.5				
Test Frequency Range:	9kHz to 25GHz							
Test site:	Measurement Distance: 3m							
Receiver setup:	Frequency Detector RBW VBW			Value				
	9KHz-150KHz	Qu	asi-peak	200	Hz	600Hz	z Quasi-peak	
	150KHz-30MHz	Qu	asi-peak	9KH	Ηz	30KHz	z Quasi-peak	
	30MHz-1GHz	Qu	asi-peak	120K	Hz	300KH	z Quasi-peak	
	Above 1GHz		Peak	1MHz		3MHz	Peak	
	Above IGHZ		Peak	1Mł	Ηz	10Hz	Average	
Limit: (Spurious Emissions)	Frequency		Limit (uV	//m)	V	/alue	Measurement Distance	
	0.009MHz-0.490M	0.009MHz-0.490MHz 2400/F(H		(Hz)		QP	300m	
	0.490MHz-1.705MHz 24000/F(KHz)		QP	300m		
	1.705MHz-30MHz 30				QP	30m		
	30MHz-88MHz		100			QP		
	88MHz-216MHz		150		QP			
	216MHz-960MHz		200			QP	3m	
	960MHz-1GHz		500			QP		
	Above 1GHz 500		Av	erage				
		5000		F	Peak	C. Martine State		
Test setup:	Below 30MHz							
	Below TGHZ							

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	Above 1GHz				
	<pre></pre>				
Test Procedure:	 The EUT was placed on the top of a rotating table (0.8 meters for below 1GHz and 1.5meters for above 1GHz) above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 				
	 The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. 				
Test Instruments:	Refer to section 5.8 for details				
Test mode:	Refer to section 5.2 for detailsTemp.:25 °CHumid.:52%Press.:1 012mbar				
Temp. / Hum.	Temp.:25 °CHumid.:52%Press.:1 012mbar				

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Test results:	Pass	

Remark:

1. Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis which it is worse case.

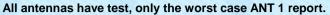
Measurement data:

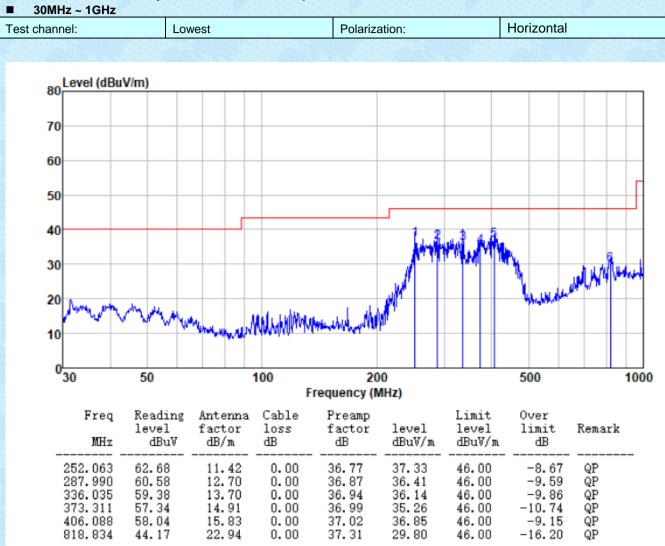
Below 30MHz

The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.

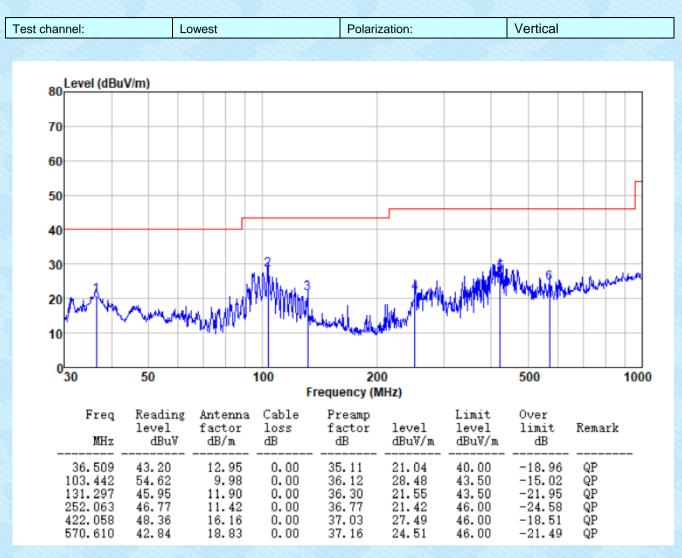


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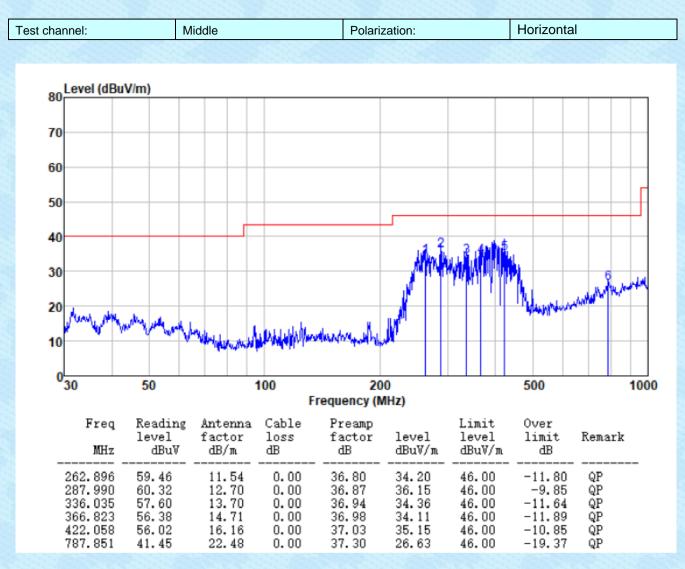




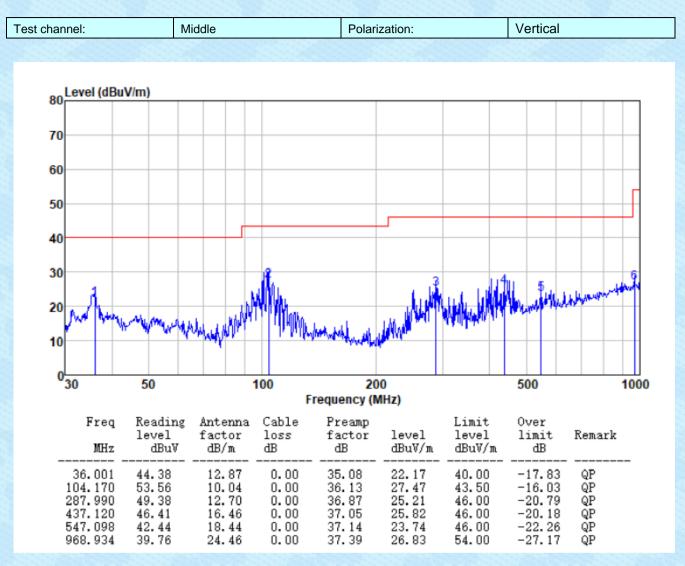
Report No.: GTS202208000120F01



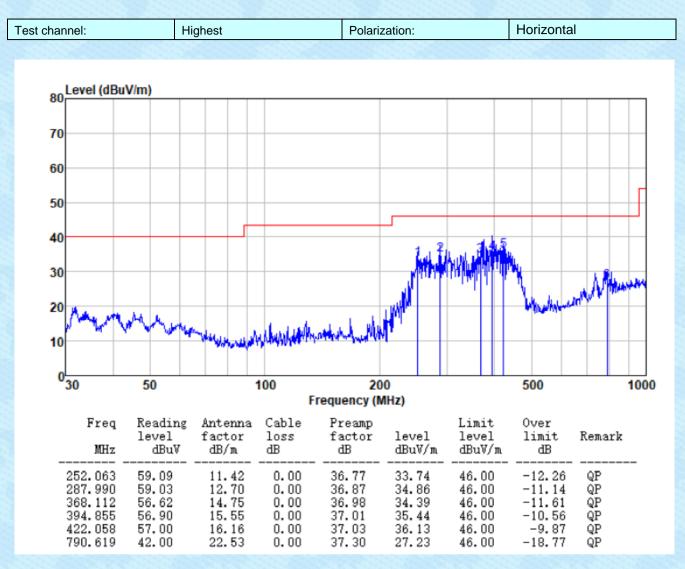
Report No.: GTS202208000120F01



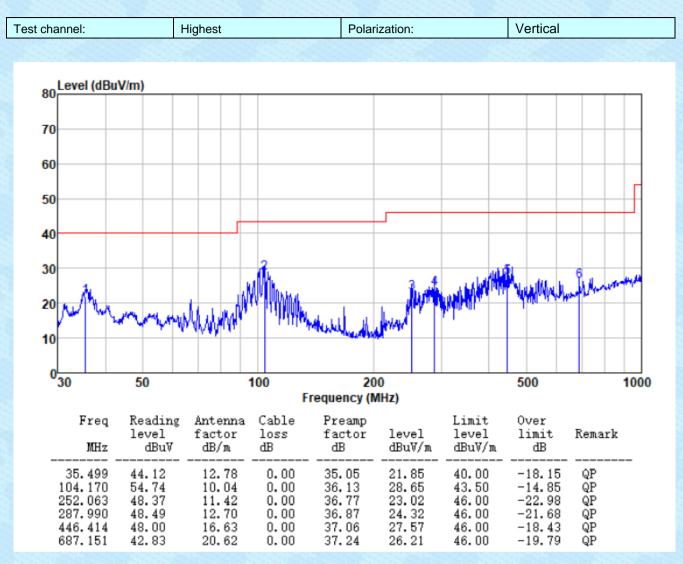
Report No.: GTS202208000120F01



Report No.: GTS202208000120F01



Report No.: GTS202208000120F01

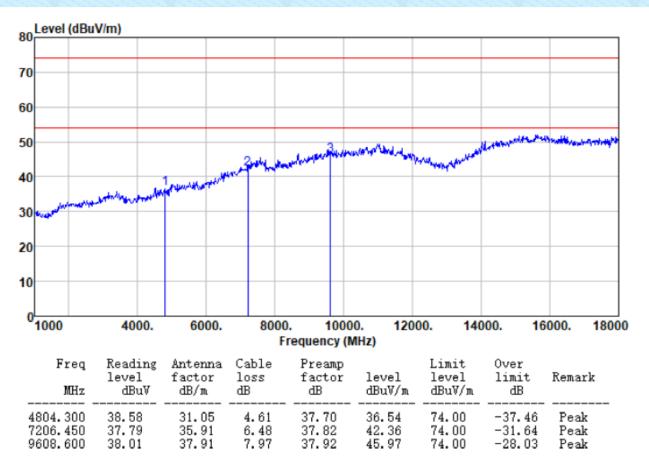




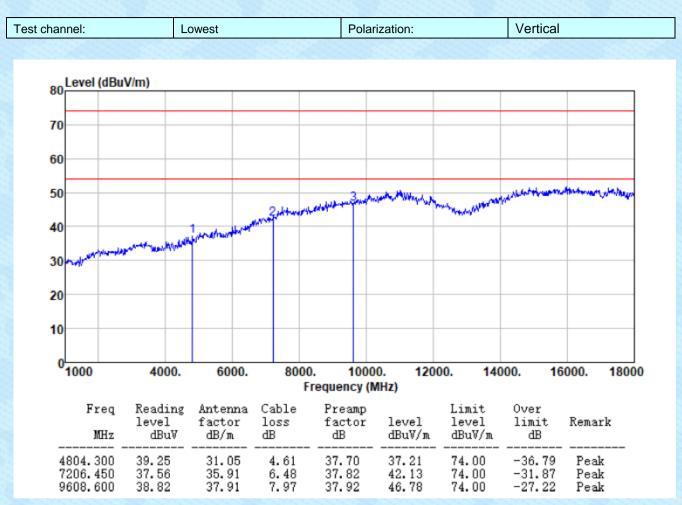
Unwanted Emissions in Restricted Frequency Bands

Above 1GHz

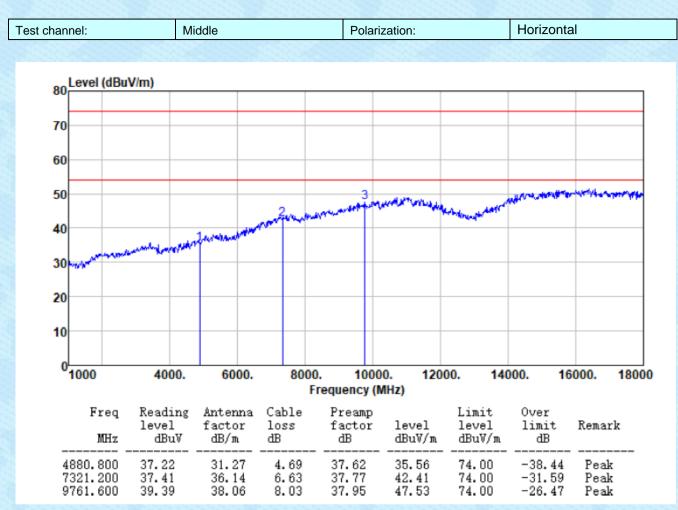
Test channel:	Lowest	Polarization:	Horizontal



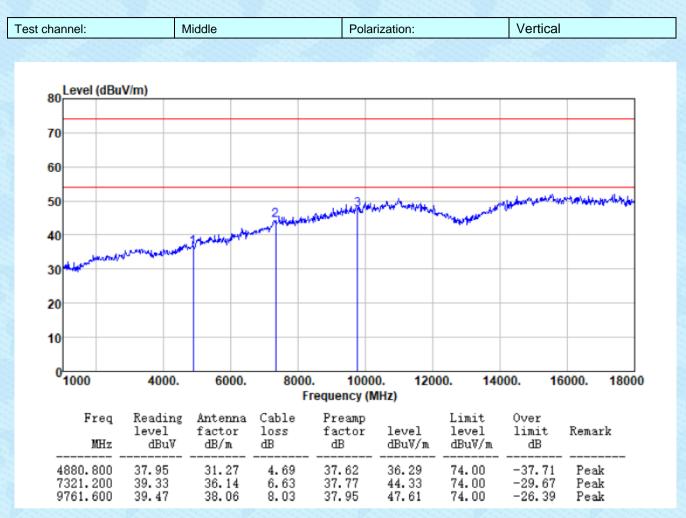
Report No.: GTS202208000120F01



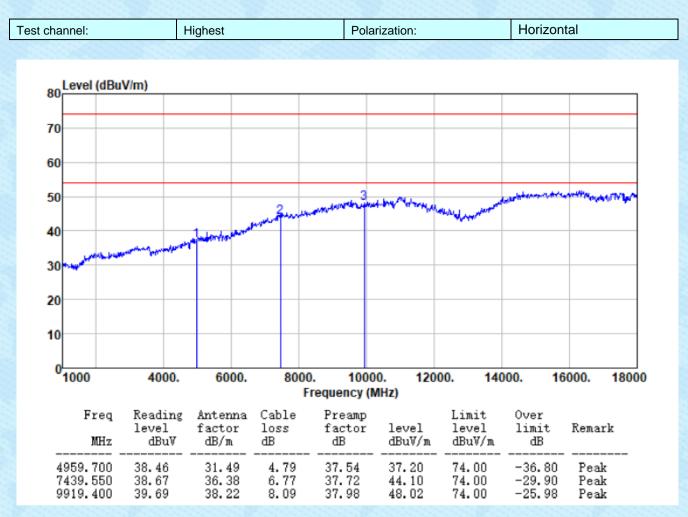
Report No.: GTS202208000120F01



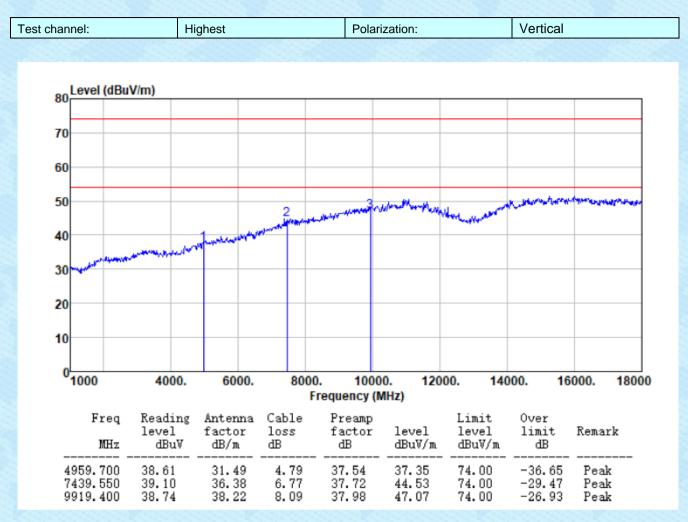
Report No.: GTS202208000120F01



Report No.: GTS202208000120F01



Report No.: GTS202208000120F01



Remark:

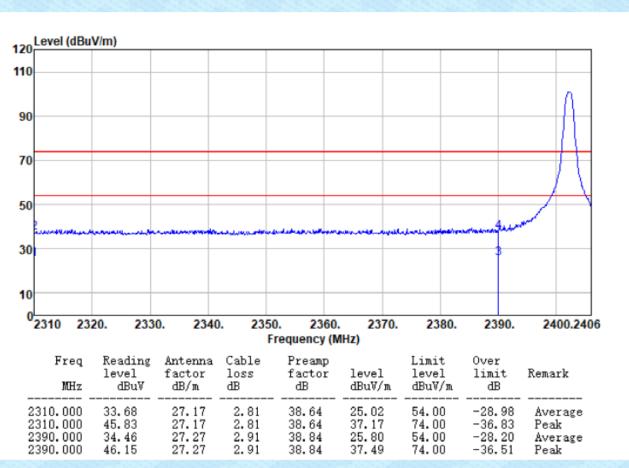
- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. *"*"*, means this data is the too weak instrument of signal is unable to test.
- 3. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 4. For above 18GHz, no emission found.

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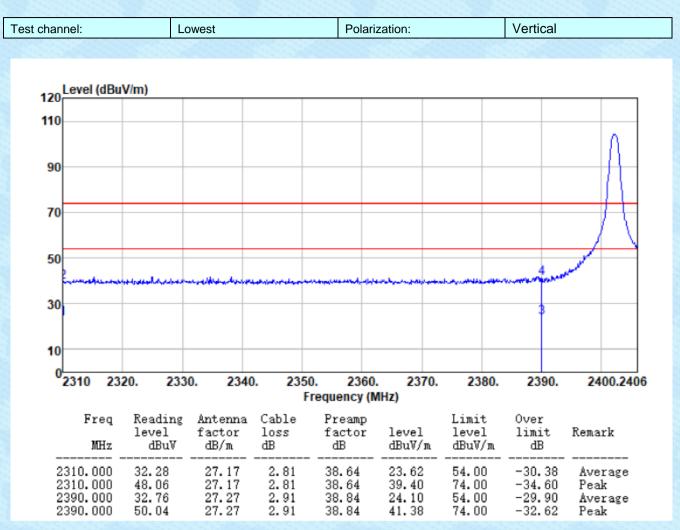
Unwanted Emissions in Non-restricted Frequency Bands



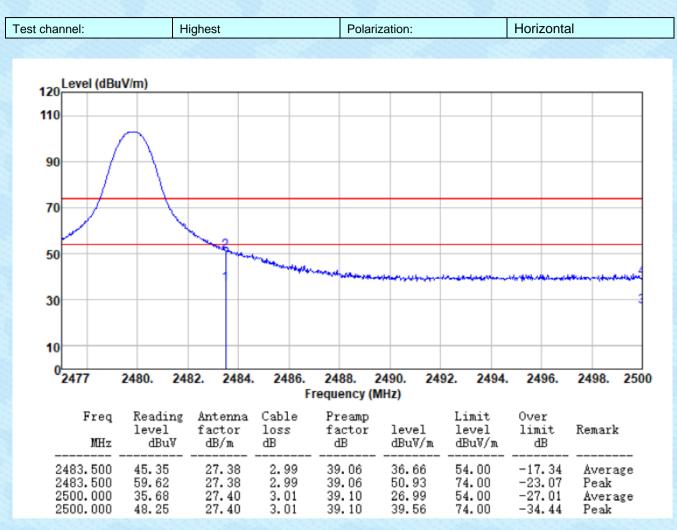
Test channel:	Lowest	Polarization:	Horizontal		
			To a contract of the second of the second of the		



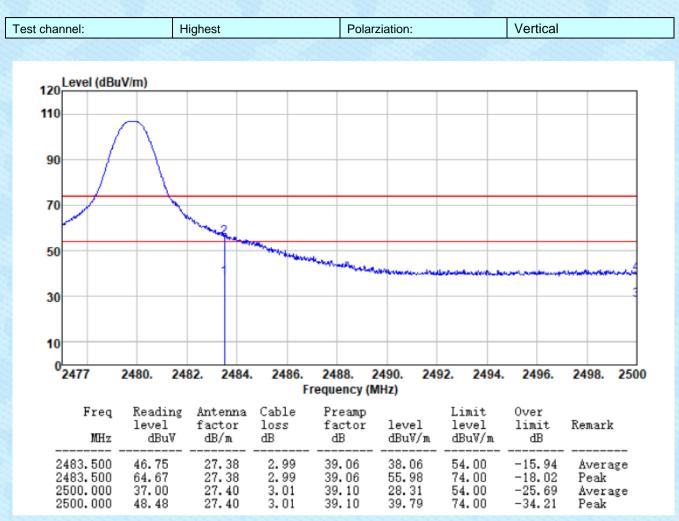
Report No.: GTS202208000120F01



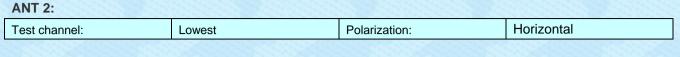
Report No.: GTS202208000120F01

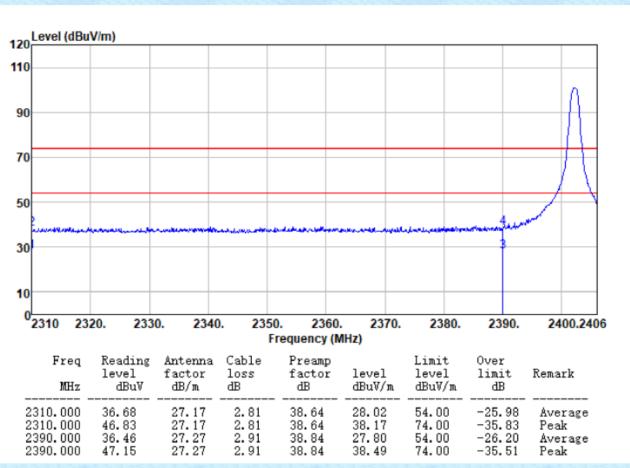


Report No.: GTS202208000120F01

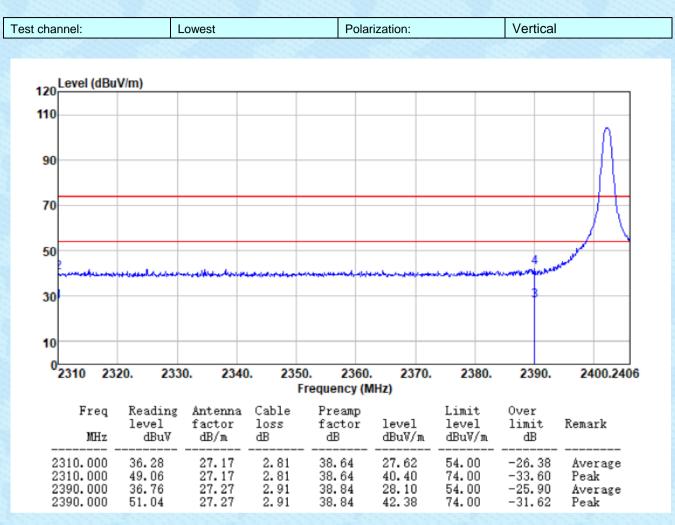


Report No.: GTS202208000120F01

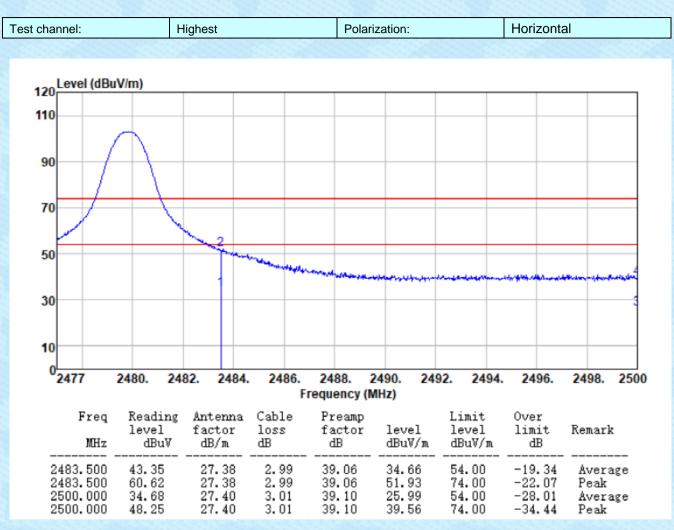




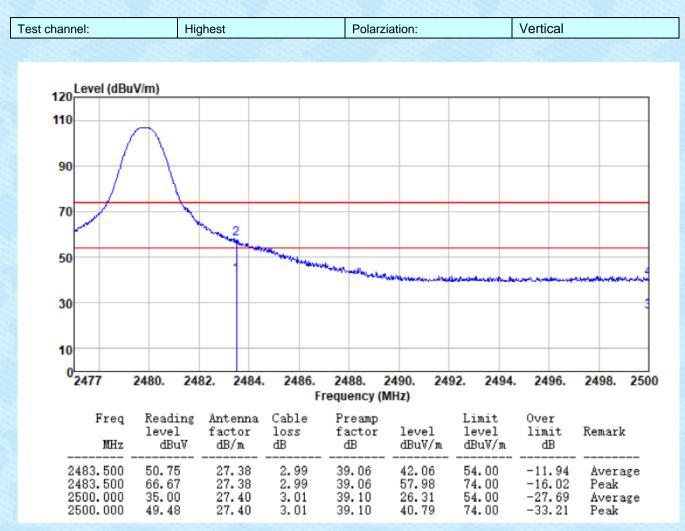
Report No.: GTS202208000120F01



Report No.: GTS202208000120F01



Report No.: GTS202208000120F01



Remarks:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

2. The emission levels of other frequencies are very lower than the limit and not show in test report.

8 Test Setup Photo

Reference to the appendix I for details.

9 EUT Constructional Details

Reference to the appendix II for details.

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