



TEST REPORT

Product Name: LAWK City AI Glasses
Trademark: Lawaken
Model Number: Lawk City
Prepared For: An hui Lawaken Technology Co., Ltd.
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Sample Received Date: Aug. 12, 2025
Sample tested Date: Aug. 12, 2025 to Sep. 3, 2025
Issue Date: Sep. 3, 2025
Report No.: CTB25081206201RF02
Test Standards: MIC Public Notice 88:2004, annex 1 and annex 43
Ordinance Article 2 paragraph 1 item (19)
Test Results: PASS
Remark: This is Bluetooth radio test report.
Compiled by: Reviewed by: Approved by:

Zhou kui

ZhouKui

Arron Liu

Arron LiuBin Mei / Director

Note: If there is any objection to the inspection results in this report, please submit a written report to the company within 15 days from the date of receiving the report. The test report is effective only with both signature and specialized stamp. This result(s) shown in this report refer only to the sample(s) tested. Without written approval of Shenzhen CTB Testing Technology Co., Ltd. this report can't be reproduced except in full. The tested sample(s) and the sample information are provided by the client. "*" indicates the testing items were fulfilled by subcontracted lab. "#" indicates the items are not in CNAS accreditation scope.

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1. TEST SUMMARY

1.1 VERSION

Report No.	Issue Date	Description	Approved
CTB25081206201RF02	Sep. 3, 2025	Original	Valid

1.2 Test description

ARIB STD T-66 Ver.3.7			
Standard Section	Test Item	Judgment	Remark
General provisions			
5	Frequency Error	PASS	
6	Occupied Bandwidth	PASS	
7	Spurious Emissions Intensity	PASS	
8	Radio Interference Prevention Capability Measurement	PASS	
Transmitting equipment			
4	Antenna Power	PASS	
14.2	SAR	N/A	
Transmitting antenna			
20	Type, configuration, etc., of Transmitting Antenna	PASS	
22	Direction Pattern of Transmitting Antenna (Provided at individual Antenna Report	PASS	
Operating frequency 2400-2483.5MHz			
49.20(1):a	RF Shielding method	PASS	
49.20(1):a	Communication Method	PASS	
49.20(1):b	Spread-spectrum Method	PASS	
49.20(1):c	Antenna Power	PASS	
49.20(1):d	Absolute Antenna Gain (Provided at Individual Antenna Report)	PASS	
49.20(1):e	Spread-Spectrum Bandwidth	PASS	
49.20(1):f	Spreading Factor	PASS	
49.20(1):g	Hopping Frequency Dwell Time (FH employed)	PASS	

NOTE:

(1)N/A denotes test not applicable in this Test Report.

1.3 Measurement uncertainty

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

Item	Uncertainty
Occupancy bandwidth	54.3kHz
Conducted output power Above 1G	0.9dB
Conducted output power below 1G	0.9dB
Power Spectral Density , Conduction	0.9dB
Conduction spurious emissions	2.0dB
Out of band emission	2.0dB
3m camber Radiated spurious emission(30MHz-1GHz)	4.6dB
3m chamber Radiated spurious emission(1GHz-18GHz)	5.1dB
3m chamber Radiated spurious emission(18GHz-40GHz)	3.4dB
Frequency Error	54.3Hz
Adjacent channel power below 1G	2.6dB
Adjacent channel power Above 1G	2.8dB
humidity uncertainty	5.5%
Temperature uncertainty	0.63℃
frequency	1×10^{-7}

2. GENERAL INFORMATION

2.1 General description of EUT

Model(s):	Lawk City
Model Description:	N/A
Bluetooth Version:	Bluetooth 5.3
Hardware Version:	V1.2
Software Version:	V60

Operation Frequency:	Bluetooth: 2402-2480MHz
Rate Output power:	GFSK: 0.03mW/MHz ($\pi/4$)DQPSK: 0.03mW/MHz 8DPSK: 0.03mW/MHz
Type of Modulation:	Bluetooth: GFSK, ($\pi/4$)DQPSK, 8DPSK
Antenna installation:	FPC antenna
Antenna Gain:	Right:0.9dBi left:2.9dBi
Ratings:	DC 5V charging from adapter DC 3.7V by battery

Note: For more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

2.2 Description of test modes

The EUT has been tested under typical operating condition. The Applicant provides communication tools software to control the EUT for staying in continuous transmitting and receiving mode for testing.

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	20	2422	40	2442	60	2462
1	2403	21	2423	41	2443	61	2463
2	2404	22	2424	42	2444	62	2464
3	2405	23	2425	43	2445	63	2465
4	2406	24	2426	44	2446	64	2466
5	2407	25	2427	45	2447	65	2467
6	2408	26	2428	46	2448	66	2468
7	2409	27	2429	47	2449	67	2469
8	2410	28	2430	48	2450	68	2470
9	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	N/A	N/A

Note: Test performed at the lowest/middle/highest frequencies selected in the list above for EUT supported while working on specified mode.

Pretest Mode	Description
Transmitting mode	Low channel: 2402MHz
	Middle channel: 2441MHz
	High channel: 2480MHz
Receiver mode	Low channel: 2402MHz
	Middle channel: 2441MHz
	High channel: 2480MHz

Test software Version	sscom5.13.1		
Frequency	2402MHz	2441MHz	2480MHz
Parameters (GFSK, $\pi/4$ DQPSK, 8DPSK)	ATETXPOW= default		

2.3 Environmental conditions

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

Supply Voltage			
	supply power V	Rated module power V	Tolerance (%)
Normal	3.7	3.3	
+10%	4.07	3.3	0
-10%	3.33	3.3	0
Others			
Temperature (°C)		20-25	
Relative humidity		54 %.	
ATM Pressure:		1010 mbar	
Note 1: When the input voltage is reduced or increased by 10%, the regulator voltage changes of less than 1%.So the following test items are conducted in the normal voltage.			

2.4 Block diagram showing the configuration of system tested

Transmitting mode



2.5 Description of support units (conducted mode)

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	Note
1	LAWK City AI Glasses	Lawaken	Lawk City	EUT

Note:

1. The support equipment was authorized by Declaration of Confirmation.
2. For detachable type I/O cable should be specified the length in cm in 『Length』 column.
3. “YES” is means “shielded” “with core”; “NO” is means “unshielded” “without core”.

2.6 Measurement equipment list

No.	Equipment	Manufacturer	Type No.	Serial No.	Firmware Version	Calibrated until
1	Spectrum Analyzer	Agilent	N9020A	MY52090073	A.14.16	2026/6/27
2	Power Sensor	Agilent	U2021XA	MY56120032	/	2026/6/27
3	Power Sensor	Agilent	U2021XA	MY56120034	/	2026/6/27
4	Communication test set	R&S	CMW500	108058	V3.5.80	2026/6/27
5	Spectrum Analyzer	KEYSIGHT	N9020A	MY51289897	A.14.16	2026/6/27
6	Signal Generator	Agilent	N5181A	MY50140365	A.01.60	2026/6/27
7	Vector signal generator	Agilent	N5182A	MY47420195	A.01.87	2026/6/27
8	Communication test set	Agilent	E5515C	MY50102567	B.19.07 (E1962B)	2026/6/27
9	2.4 GHz Filter	Shenxiang	MSF2400-24 83.5MS-1154	20181015001	/	2026/6/29
10	5 GHz Filter	Shenxiang	MSF5150-58 50MS-1155	20181015001	/	2026/6/29
11	Filter	Xingbo	XBLBQ-DZA 120	190821-1-1	/	2026/6/29
12	BT&WI-FI Automatic test software	Microwave	MTS8310	Ver. 2.0.0.0	/	/
13	Rohde & Schwarz SFU Broadcast Test System	R&S	SFU	101017	/	2026/6/27
14	Temperature humidity chamber	Hongjing	TH-80CH	DG-15174	/	2026/6/27
15	234G Automatic test software	Microwave	MTS8200	Ver. 2.0.0.0	/	/
16	966 chamber	C.R.T.	966	/	/	2027/6/21
17	Receiver	R&S	ESPI	100362	RF_ATTEN_7 (104489/003)	2026/6/27
18	Amplifier	HP	8447E	2945A02747	/	2026/6/27

19	Amplifier	Agilent	8449B	3008A01838	/	2026/6/27
20	TRILOG Broadband Antenna	Schwarzbeck	VULB 9168	00869	/	2026/6/27
21	Double Ridged Broadband Horn Antenna	Schwarzbeck	BBHA9120D	01911	/	2026/6/27
22	EMI test software	Fala	EZ-EMC	FA-03A2 RE	/	/
23	Loop Antenna	Schwarzbeck	FMZB 1519B	1519B-224	/	2026/6/27
24	loop antenna	ZHINAN	ZN30900A	GTS534	/	/
25	40G Horn antenna	A/H/System	SAS-574	588	/	2026/6/27
26	Amplifier	AEROFLEX	Aeroflex	097	/	2026/6/27
27	Power Metter	KEYSIGHT	N1912AP	N/A	A.05.00	2026/6/27
28	DC power supply	Agilent	E3640A	MY53050046	/	2026/6/27

Remark: Calibration institution "Guangzhou Lisai Measurement and Testing Co., LTD."

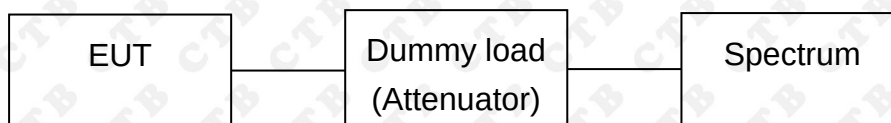
3. TEST CONDITIONS AND RESULTS

3.1 Frequency error

3.1.1 Limit

Item	Limits
Frequency Error	+/-50ppm

3.1.2 Test configuration



3.1.3 Test procedure

The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram as TEST CONFIGURATION shows.

EUT Condition: non-modulation

Spectrum Condition:

Frequency: test frequency

Span: 2000 kHz

RBW: 10kHz

VBW: 10kHz

Sweep time: Auto

Detector mode: Positive peak

Indication mode: max hold

3.1.4 Test results

Left ear:

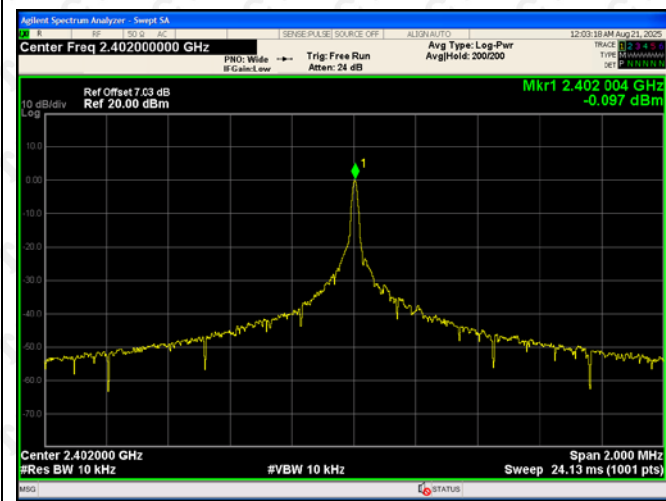
Test voltage (V)	Frequency (MHz)	Read (MHz)	Deviation (MHz)	Tolerance (ppm)	Limit (ppm)	Result
Normal Voltage	2402	2402.004	0.004	1.665	+/-50.00	Pass
	2441	2441.004	0.004	1.639		
	2480	2480.004	0.004	1.613		

Right ear:

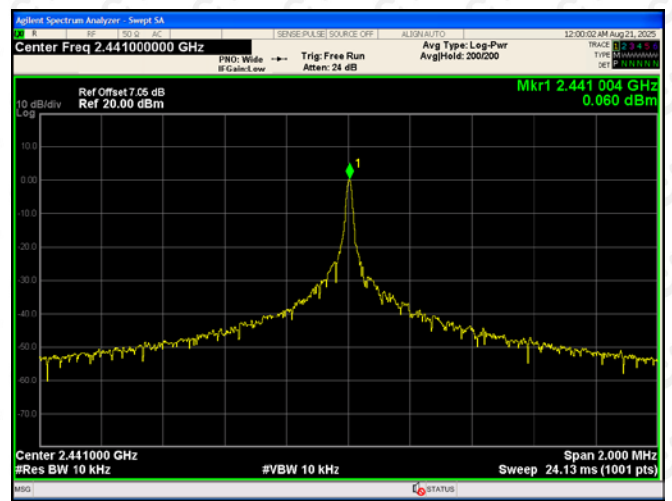
Test voltage (V)	Frequency (MHz)	Read (MHz)	Deviation (MHz)	Tolerance (ppm)	Limit (ppm)	Result
Normal Voltage	2402	2402.016	0.016	6.661	+/-50.00	Pass
	2441	2441.016	0.016	6.555		
	2480	2480.016	0.016	6.452		

Left ear:

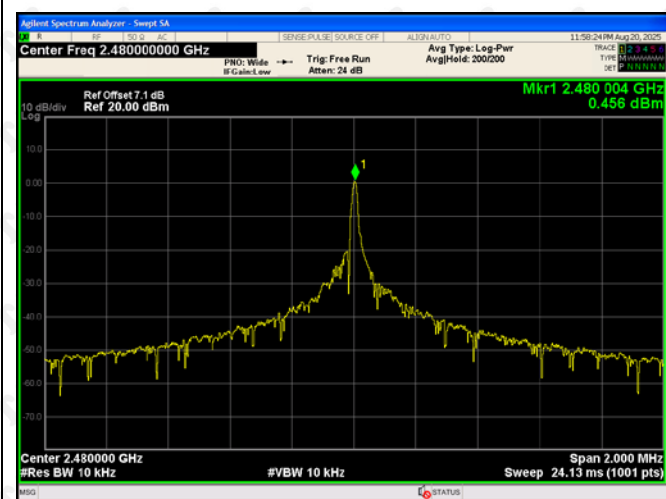
Normal Voltage



2402MHz



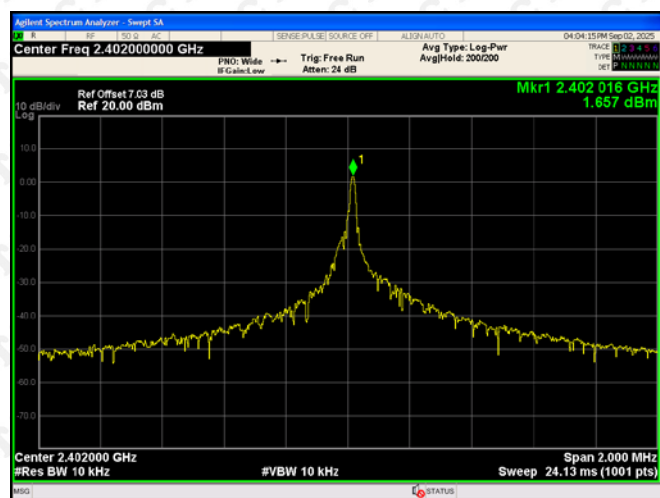
2441MHz



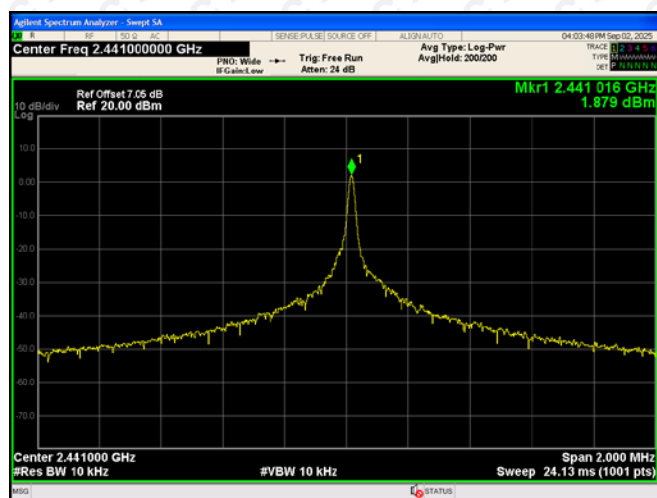
2480MHz

Right ear:

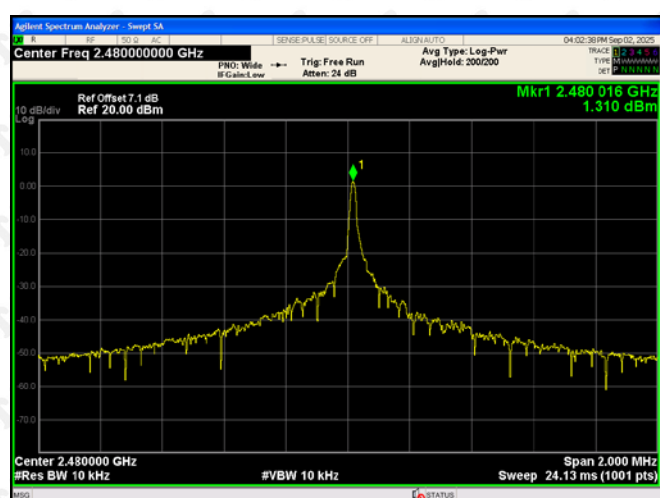
Normal Voltage



2402MHz



2441MHz



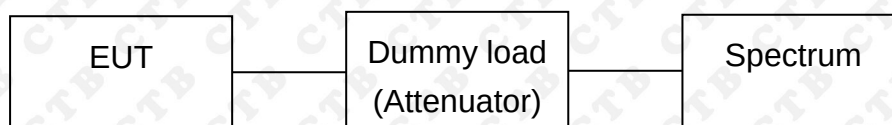
2480MHz

3.2 Antenna output power and output power tolerance

3.2.1 Limit

Item	Limits
Antenna Power Density	$\leq 3\text{mW/MHz}$ (FH form 2427 - 2470.75MHz) $\leq 10\text{mW/MHz}$ (OFDM, DS-SS, O2P400~2483.5MHz) $\leq 10\text{mW}$ (Other from 2400~2483.5MHz)
Antenna Power error	+20% (Base on manufacturer declare antenna power density)

3.2.2 Test configuration



3.2.3 Test procedure

Step 1:

Connect the UUT to the spectrum analyzer as TEST CONFIGURATION and use the following settings:

- Centre Frequency: The centre frequency of the channel under test.
- RBW: 1 MHz
- VBW: 1 MHz
- Span: Wide enough to cover the complete power envelope of the signal of the UUT.
- Detector: Peak
- Trace Mode: Max Hold

Step 2:

When the trace is complete, find the peak value of the power envelope and record the frequency.

Step 3:

Make the following changes to the settings of the spectrum analyzer:

- Centre Frequency: Equal to the frequency recorded in step 2.
- Span: 0 MHz
- RBW: 1 MHz
- VBW: 1 MHz
- Detector: Peak
- Trace Mode: Max Hold

3.2.4 Test results

Left ear:

Test modulation	Test voltage	Average burst power(dBm)	Output power (mW/MHz)	Limit (mW/MHz)	Rated output power (mW/MHz)	Tolerance (%)	Limit	Result
GFSK	Normal Voltage	1.980	0.022	3	0.03	-26.67	20%	Pass

Test modulation	Test voltage	Average burst power(dBm)	Output power (mW/MHz)	Limit (mW/MHz)	Rated output power (mW/MHz)	Tolerance (%)	Limit	Result
$\pi/4$ DQPSK	Normal Voltage	1.910	0.022	3	0.03	-26.67	20%	Pass

Test modulation	Test voltage	Average burst power(dBm)	Output power (mW/MHz)	Limit (mW/MHz)	Rated output power (mW/MHz)	Tolerance (%)	Limit	Result
8DPSK	Normal Voltage	1.840	0.022	3	0.03	-26.67	20%	Pass

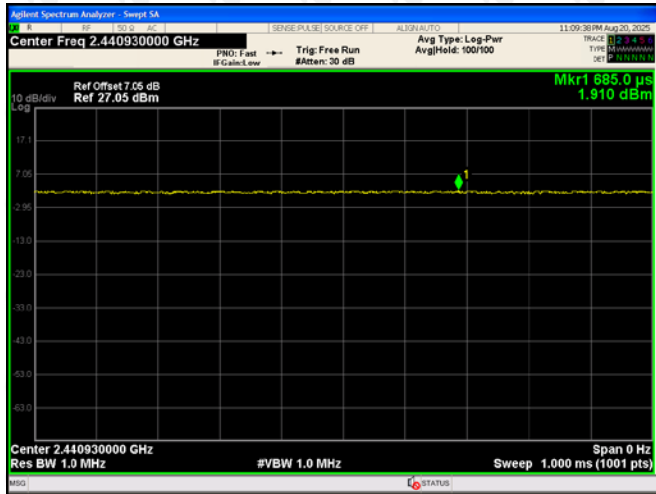
Right ear:

Test modulation	Test voltage	Average burst power(dBm)	Output power (mW/MHz)	Limit (mW/MHz)	Rated output power (mW/MHz)	Tolerance (%)	Limit	Result
GFSK	Normal Voltage	3.259	0.029	3	0.03	-3.33	20%	Pass

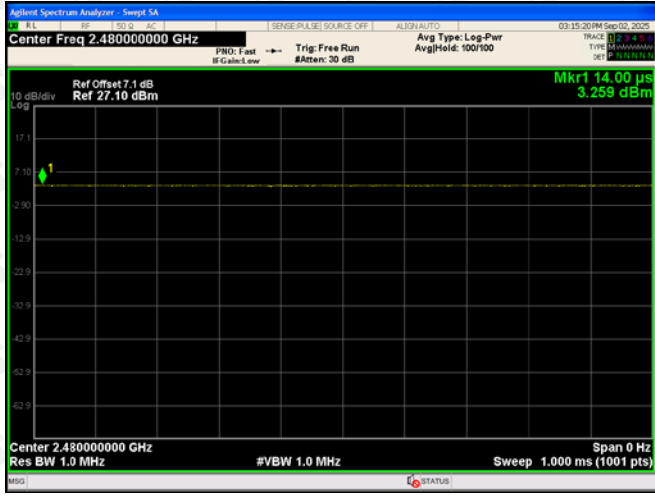
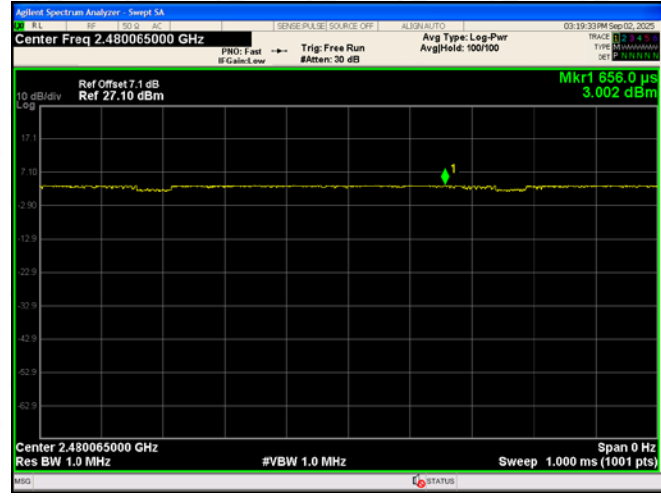
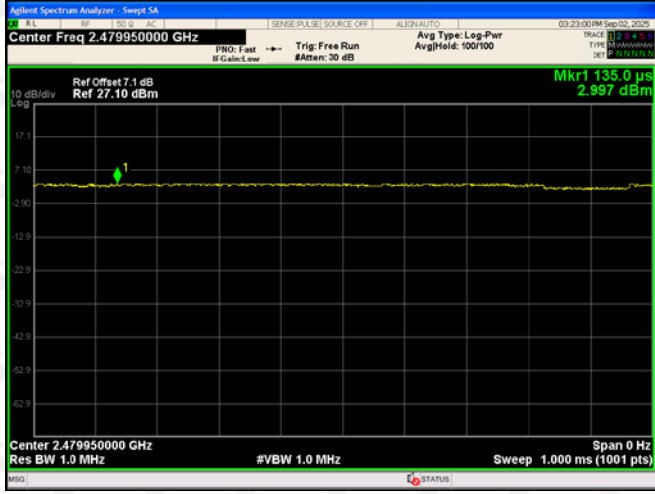
Test modulation	Test voltage	Average burst power(dBm)	Output power (mW/MHz)	Limit (mW/MHz)	Rated output power (mW/MHz)	Tolerance (%)	Limit	Result
$\pi/4$ DQPSK	Normal Voltage	3.002	0.028	3	0.03	-6.67	20%	Pass

Test modulation	Test voltage	Average burst power(dBm)	Output power (mW/MHz)	Limit (mW/MHz)	Rated output power (mW/MHz)	Tolerance (%)	Limit	Result
8DPSK	Normal Voltage	2.997	0.028	3	0.03	-6.67	20%	Pass

Left ear:

Test condition:	Normal Voltage	Test graph
		
GFSK		$\pi/4$ DQPSK
Test graph		
		
8DPSK		

Right ear:

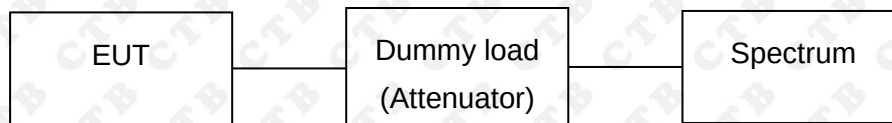
Test condition:	Normal Voltage	Test graph
		
GFSK		$\pi/4$ DQPSK
Test graph		
		
8DPSK		

3.3 Occupied bandwidth and spreading bandwidth

3.3.1 Limit

Item	Limits
Occupied BandWidth:	FH≤83.5 MHz; OFDM≤38 MHz, DS≤26 MHz; Others≤26 MHz

3.3.2 Test configuration



3.3.3 Test procedure

1. Setting of SA is following as fellow:

RBW: 300 kHz

VBW: 300 kHz

Sweep time: Auto

Sweep Mode: Continuous sweep

Detect mode: Positive peak

Trace mode: Max hold

- EUT have transmitted the maximum modulation signal and fixed channelize. SA set to 99% of occupied bandwidth to measure occupied bandwidth.
- EUT have transmitted the maximum modulation signal and fixed channelize. SA set to 90% of occupied bandwidth to measure spread bandwidth.
- Spread Factor=Spread Bandwidth/modulation rate. The modulation rate: MR=1.375Mbps for 2.4g

3.3.4 Test results

Left ear:

Test voltage (V)	Test modulation	Channel (MHz)	Occupy 99% Bandwidth (MHz)	Limit (MHz)	Result
Normal Voltage	GFSK	79 channels (2402~2480)	78.6143	≤83.5 MHz	Pass
	$\pi/4$ DQPSK	79 channels (2402~2480)	78.4867		
	8DPSK	79 channels (2402~2480)	78.7317		

99% Bandwidth

Test condition:	Normal
Agilent Spectrum Analyzer - Occupied BW Center Freq: 2.441000000 GHz Ref Offset: 7.03 dB Ref: 27.03 dBm Mkr1: 2.45324 GHz 2.0407 dBm Center: 2.441 GHz #Res BW: 1 MHz #VBW: 1 MHz Span: 120 MHz Sweep: 1 ms Occupied Bandwidth: 78.614 MHz Total Power: 19.9 dBm Transmit Freq Error: 106.82 kHz OBW Power: 99.00 % x dB Bandwidth: 81.38 MHz x dB: -26.00 dB	Agilent Spectrum Analyzer - Occupied BW Center Freq: 2.441000000 GHz Ref Offset: 7.03 dB Ref: 27.03 dBm Mkr1: 2.45024 GHz 1.8538 dBm Center: 2.441 GHz #Res BW: 1 MHz #VBW: 1 MHz Span: 120 MHz Sweep: 1 ms Occupied Bandwidth: 78.475 MHz Total Power: 18.9 dBm Transmit Freq Error: 87.633 kHz OBW Power: 99.00 % x dB Bandwidth: 81.42 MHz x dB: -26.00 dB
GFSK	$\pi/4$ DQOSK
Agilent Spectrum Analyzer - Occupied BW Center Freq: 2.441000000 GHz Ref Offset: 7.03 dB Ref: 27.03 dBm Mkr1: 2.4512 GHz 1.8817 dBm Center: 2.441 GHz #Res BW: 1 MHz #VBW: 1 MHz Span: 120 MHz Sweep: 1 ms Occupied Bandwidth: 78.728 MHz Total Power: 19.0 dBm Transmit Freq Error: 102.67 kHz OBW Power: 99.00 % x dB Bandwidth: 81.64 MHz x dB: -26.00 dB	
8DPSK	

Right ear:

Test voltage (V)	Test modulation	Channel (MHz)	Occupy 99% Bandwidth (MHz)	Limit (MHz)	Result
Normal Voltage	GFSK	79 channels (2402~2480)	78.7434	≤83.5 MHz	Pass
	$\pi/4$ DQPSK	79 channels (2402~2480)	78.7742		
	8DPSK	79 channels (2402~2480)	78.8160		

99% Bandwidth

Test condition:	Normal
Agilent Spectrum Analyzer - Occupied BW Center Freq: 2.441000000 GHz Ref Offset: 7.03 dB Ref: 27.03 dBm Mkr1: 2.48012 GHz 2.9939 dBm Center: 2.441 GHz #Res BW: 1 MHz #VBW: 1 MHz Span: 120 MHz Sweep: 1 ms Occupied Bandwidth: 78.740 MHz Total Power: 20.4 dBm Transmit Freq Error: 147.42 kHz OBW Power: 99.00 % x dB Bandwidth: 81.28 MHz x dB: -26.00 dB	Agilent Spectrum Analyzer - Occupied BW Center Freq: 2.441000000 GHz Ref Offset: 7.03 dB Ref: 27.03 dBm Mkr1: 2.47304 GHz 2.6417 dBm Center: 2.441 GHz #Res BW: 1 MHz #VBW: 1 MHz Span: 120 MHz Sweep: 1 ms Occupied Bandwidth: 78.765 MHz Total Power: 19.6 dBm Transmit Freq Error: 97.077 kHz OBW Power: 99.00 % x dB Bandwidth: 81.58 MHz x dB: -26.00 dB
GFSK	$\pi/4$ DQOSK
Agilent Spectrum Analyzer - Occupied BW Center Freq: 2.441000000 GHz Ref Offset: 7.03 dB Ref: 27.03 dBm Mkr1: 2.47712 GHz 2.5018 dBm Center: 2.441 GHz #Res BW: 1 MHz #VBW: 1 MHz Span: 120 MHz Sweep: 1 ms Occupied Bandwidth: 78.803 MHz Total Power: 19.2 dBm Transmit Freq Error: 176.97 kHz OBW Power: 99.00 % x dB Bandwidth: 81.54 MHz x dB: -26.00 dB	
8DPSK	

Left ear:

Test voltage (V)	Test modulation	Channel (MHz)	Spread 90% Bandwidth (MHz)	Limit (MHz)	Result
Normal Voltage	GFSK	79 channels	70.4405	≥ 500 kHz	Pass
	$\pi/4$ DQPSK	79 channels	71.1825		
	8DPSK	79 channels	69.9969		

Spread Factor

TEST CONDITION	Diffusion Bandwidth	Modulation Data Rate (M)	Spread Factor	Limit
GFSK	70.4405	1	70.588	≥ 5
$\pi/4$ -DQPSK	71.1825	2	35.902	≥ 5
8DPSK	69.9969	3	23.705	≥ 5

90% Bandwidth



Right ear:

Test voltage (V)	Test modulation	Channel (MHz)	Spread 90% Bandwidth (MHz)	Limit (MHz)	Result
Normal Voltage	GFSK	79 channels	72.4198	≥500 kHz	Pass
	$\pi/4$ DQPSK	79 channels	71.2329		
	8DPSK	79 channels	72.0036		

Spread Factor

TEST CONDITION	Diffusion Bandwidth	Modulation Data Rate (M)	Spread Factor	Limit
GFSK	72.4198	1	70.588	≥5
$\pi/4$ -DQPSK	71.2329	2	35.902	≥5
8DPSK	72.0036	3	23.705	≥5

90% Bandwidth

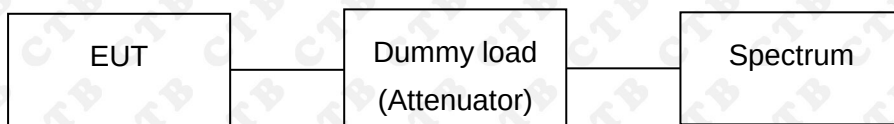


3.4 Unwanted emission strength

3.4.1 Limit

Item	Limits
TX Spurious Emission	$\leq 2.5 \mu\text{W}/\text{MHz}$ ($30\text{MHz} \leq f \leq 1000\text{MHz}$)
	$\leq 2.5 \mu\text{W}/\text{MHz}$ ($1000\text{MHz} < f \leq 2387\text{MHz}$)
	$\leq 25 \mu\text{W}/\text{MHz}$ ($2387\text{MHz} < f \leq 2400\text{MHz}$)
	$\leq 25 \mu\text{W}/\text{MHz}$ ($2483.5\text{MHz} \leq f < 2496.5\text{MHz}$)
	$\leq 2.5 \mu\text{W}/\text{MHz}$ ($2496.5\text{MHz} \leq f < 12500\text{MHz}$)

3.4.2 Test configuration



3.4.3 Test procedure

The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram as TEST CONFIGURATION shows.

EUT Condition: modulation

Spectrum Condition:

Frequency: 30MHz-12.75GHz

RBW: 100 kHz (30MHz-1GHz), 1MHz (1GHz-12.75GHz)

VBW: 100 kHz (30MHz-1GHz), 1MHz (1GHz-12.75GHz)

Sweep time: Auto

Detector mode: Positive peak

Indication mode: max hold

3.4.4 Test results

Left ear:

Test mode	Test Channel	Test freq. range	Emission Frequency (MHz)	Test result (dBm/MHz)	Test result (uW/MHz)	limits (uW/MHz)	Result
GFSK	Low	30MHz≤f≤1000MHz	773.02	-53.19	0.048	2.5	PASS
		1000MHz < f≤2387MHz	2371.74	-42.71	0.054	2.5	PASS
		2387MHz < f≤2400MHz	2399.97	-28.15	1.531	25	PASS
		2483.5MHz≤f < 2496.5MHz	2483.81	-42.42	0.057	25	PASS
		2496.5MHz≤f < 12750MHz	4577.96	-36.14	0.243	2.5	PASS
	Middle	30MHz≤f≤1000MHz	967.02	-53.47	0.004	2.5	PASS
		1000MHz < f≤2387MHz	2116.54	-42.73	0.053	2.5	PASS
		2387MHz < f≤2400MHz	2393.05	-43.03	0.050	25	PASS
		2483.5MHz≤f < 2496.5MHz	2487.92	-41.88	0.065	25	PASS
		2496.5MHz≤f < 12750MHz	5182.92	-26.4	2.291	2.5	PASS
	High	30MHz≤f≤1000MHz	740.04	-53.92	0.004	2.5	PASS
		1000MHz < f≤2387MHz	2294.07	-42.87	0.052	2.5	PASS
		2387MHz < f≤2400MHz	2389.56	-43.13	0.049	25	PASS
		2483.5MHz≤f < 2496.5MHz	2483.59	-36.77	0.210	25	PASS
		2496.5MHz≤f < 12750MHz	4588.21	-36.74	0.212	2.5	PASS

Test mode	Test Channel	Test freq. range	Emission Frequency (MHz)	Test result (dBm/MHz)	Test result (uW/MHz)	limits (uW/MHz)	Result
π/4DQPSK	Low	30MHz≤f≤1000MHz	852.56	-54.17	0.038	2.5	PASS
		1000MHz < f≤2387MHz	2262.17	-42.29	0.059	2.5	PASS
		2387MHz < f≤2400MHz	2400	-28.76	1.330	25	PASS
		2483.5MHz≤f < 2496.5MHz	2490.98	-42.56	0.055	25	PASS
		2496.5MHz≤f < 12750MHz	4803.54	-36.71	0.213	2.5	PASS
	Middle	30MHz≤f≤1000MHz	987.39	-53.41	0.005	2.5	PASS
		1000MHz < f≤2387MHz	2267.72	-42.93	0.051	2.5	PASS
		2387MHz < f≤2400MHz	2397.26	-42.84	0.052	25	PASS
		2483.5MHz≤f < 2496.5MHz	2496.08	-42.33	0.058	25	PASS
		2496.5MHz≤f < 12750MHz	5193.17	-34.21	0.379	2.5	PASS
	High	30MHz≤f≤1000MHz	738.1	-53.71	0.004	2.5	PASS
		1000MHz < f≤2387MHz	2331.52	-42.57	0.055	2.5	PASS
		2387MHz < f≤2400MHz	2396.82	-41.93	0.064	25	PASS
		2483.5MHz≤f < 2496.5MHz	2483.55	-33.59	0.438	25	PASS
		2496.5MHz≤f < 12750MHz	5203.42	-35.59	0.276	2.5	PASS

Test mode	Test Channel	Test freq. range	Emission Frequency (MHz)	Test result (dBm/MHz)	Test result (uW/MHz)	limits (uW/MHz)	Result
8DPSK	Low	30MHz≤f≤1000MHz	825.4	-53.91	0.041	2.5	PASS
		1000MHz < f≤2387MHz	2047.19	-43.01	0.050	2.5	PASS
		2387MHz < f≤2400MHz	2399.96	-28.01	1.581	25	PASS
		2483.5MHz≤f < 2496.5MHz	2485.07	-42.24	0.060	25	PASS
		2496.5MHz≤f < 12750MHz	4803.54	-38.52	0.141	2.5	PASS
	Middle	30MHz≤f≤1000MHz	776.9	-53.73	0.004	2.5	PASS
		1000MHz < f≤2387MHz	1764.24	-42.58	0.055	2.5	PASS
		2387MHz < f≤2400MHz	2387.61	-43.25	0.047	25	PASS
		2483.5MHz≤f < 2496.5MHz	2493.71	-43.03	0.050	25	PASS
		2496.5MHz≤f < 12750MHz	4885.57	-39.99	0.100	2.5	PASS
	High	30MHz≤f≤1000MHz	359.8	-53.93	0.004	2.5	PASS
		1000MHz < f≤2387MHz	2307.94	-43.02	0.050	2.5	PASS
		2387MHz < f≤2400MHz	2388.81	-42.01	0.063	25	PASS
		2483.5MHz≤f < 2496.5MHz	2484.28	-32.8	0.525	25	PASS
		2496.5MHz≤f < 12750MHz	4957.34	-39.08	0.124	2.5	PASS

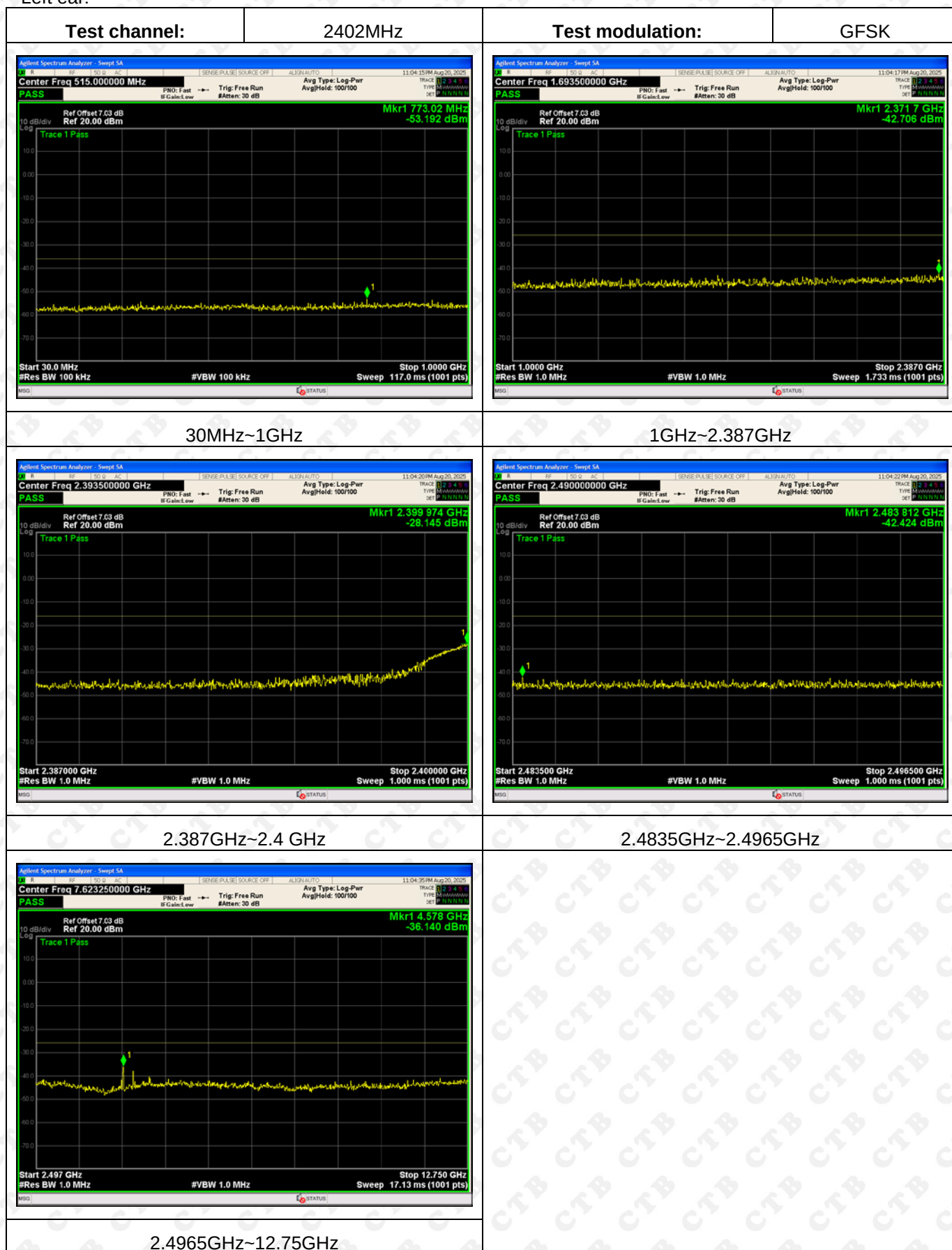
Right ear:

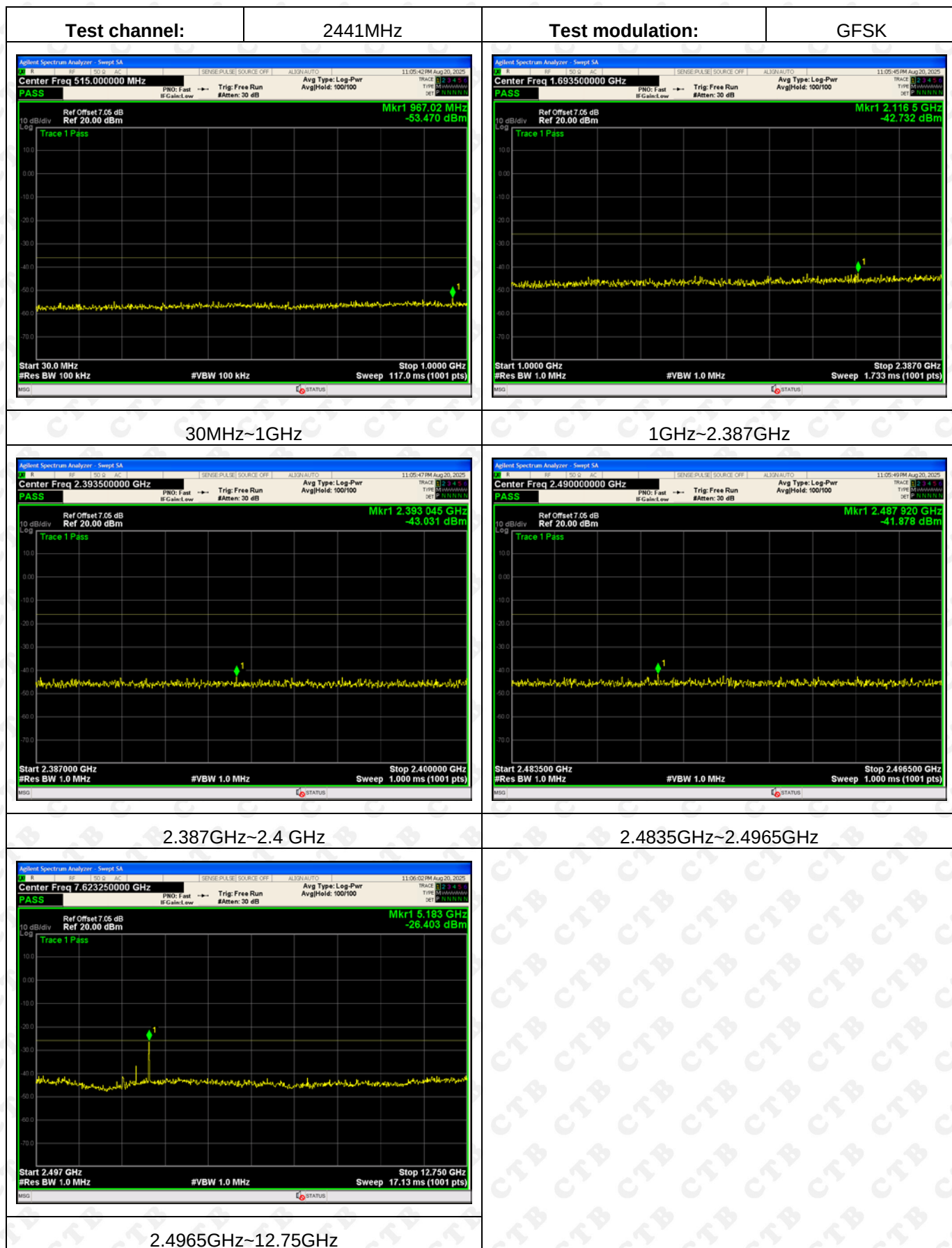
Test mode	Test Channel	Test freq. range	Emission Frequency (MHz)	Test result (dBm/MHz)	Test result (uW/MHz)	limits (uW/MHz)	Result
GFSK	Low	30MHz≤f≤1000MHz	662.44	-54.08	0.039	2.5	PASS
		1000MHz < f≤2387MHz	2377.29	-42.32	0.059	2.5	PASS
		2387MHz < f≤2400MHz	2399.96	-27.9	1.622	25	PASS
		2483.5MHz≤f < 2496.5MHz	2493.5	-42.41	0.057	25	PASS
		2496.5MHz≤f < 12750MHz	4803.54	-34.41	0.362	2.5	PASS
	Middle	30MHz≤f≤1000MHz	755.56	-53.04	0.005	2.5	PASS
		1000MHz < f≤2387MHz	2378.68	-42.28	0.059	2.5	PASS
		2387MHz < f≤2400MHz	2396.22	-43.01	0.050	25	PASS
		2483.5MHz≤f < 2496.5MHz	2491.7	-42.89	0.051	25	PASS
		2496.5MHz≤f < 12750MHz	4885.57	-35.44	0.286	2.5	PASS
	High	30MHz≤f≤1000MHz	902.03	-53.62	0.004	2.5	PASS
		1000MHz < f≤2387MHz	2142.89	-41.47	0.071	2.5	PASS
		2387MHz < f≤2400MHz	2399.69	-42.76	0.053	25	PASS
		2483.5MHz≤f < 2496.5MHz	2483.51	-30.93	0.807	25	PASS
		2496.5MHz≤f < 12750MHz	4957.34	-37.93	0.161	2.5	PASS

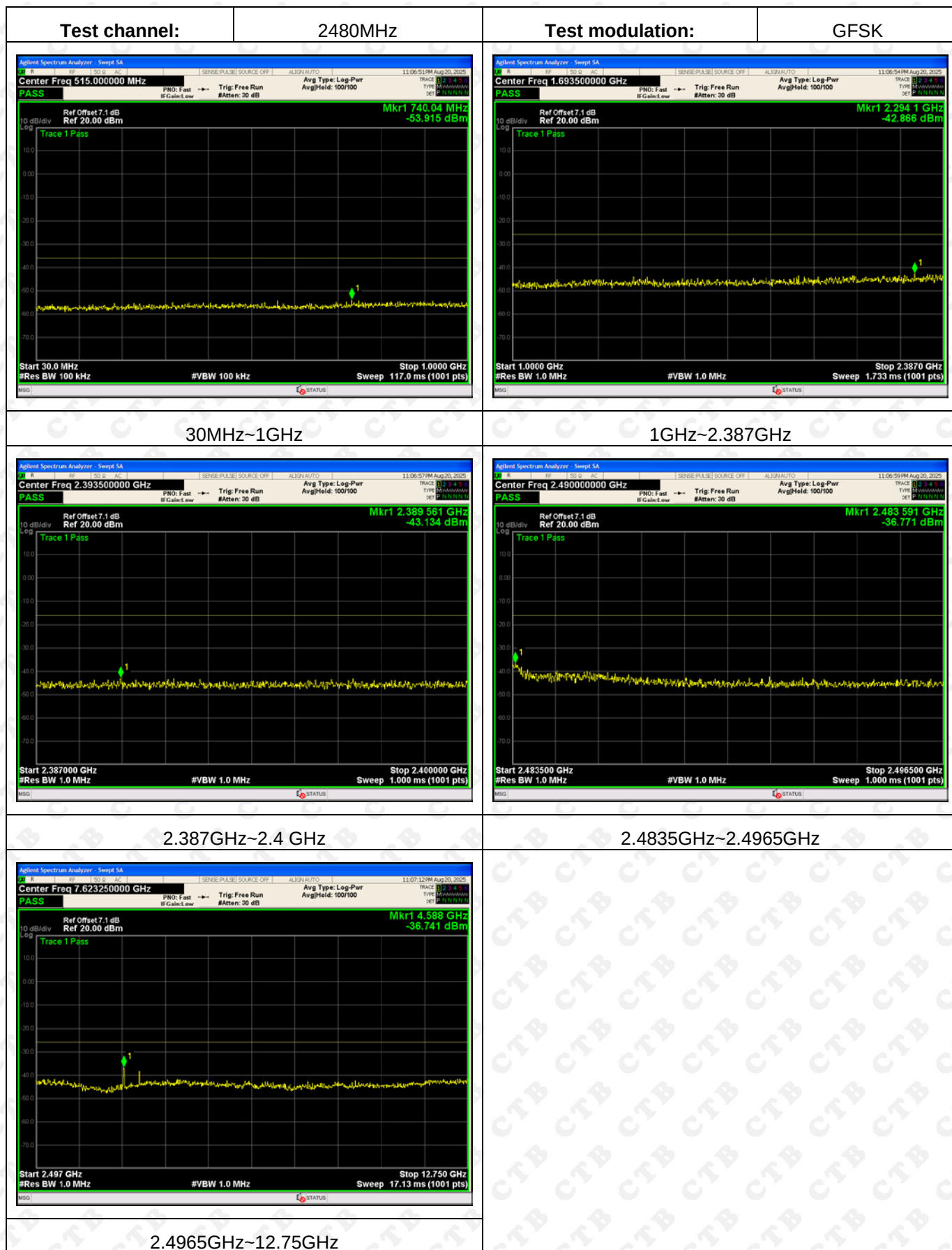
Test mode	Test Channel	Test freq. range	Emission Frequency (MHz)	Test result (dBm/MHz)	Test result (uW/MHz)	limits (uW/MHz)	Result
π/4DQPSK	Low	30MHz≤f≤1000MHz	427.7	-53.52	0.044	2.5	PASS
		1000MHz < f≤2387MHz	2233.04	-42.09	0.062	2.5	PASS
		2387MHz < f≤2400MHz	2400	-28.01	1.581	25	PASS
		2483.5MHz≤f < 2496.5MHz	2492.05	-42.64	0.054	25	PASS
		2496.5MHz≤f < 12750MHz	4803.54	-37.18	0.191	2.5	PASS
	Middle	30MHz≤f≤1000MHz	932.1	-53.9	0.004	2.5	PASS
		1000MHz < f≤2387MHz	2335.68	-42.78	0.053	2.5	PASS
		2387MHz < f≤2400MHz	2387.44	-42.95	0.051	25	PASS
		2483.5MHz≤f < 2496.5MHz	2484.32	-42.89	0.051	25	PASS
		2496.5MHz≤f < 12750MHz	4885.57	-37.68	0.171	2.5	PASS
	High	30MHz≤f≤1000MHz	479.11	-53.85	0.004	2.5	PASS
		1000MHz < f≤2387MHz	2245.53	-42.39	0.058	2.5	PASS
		2387MHz < f≤2400MHz	2398.84	-42.01	0.063	25	PASS
		2483.5MHz≤f < 2496.5MHz	2483.71	-29.61	1.094	25	PASS
		2496.5MHz≤f < 12750MHz	3419.32	-36.17	0.242	2.5	PASS

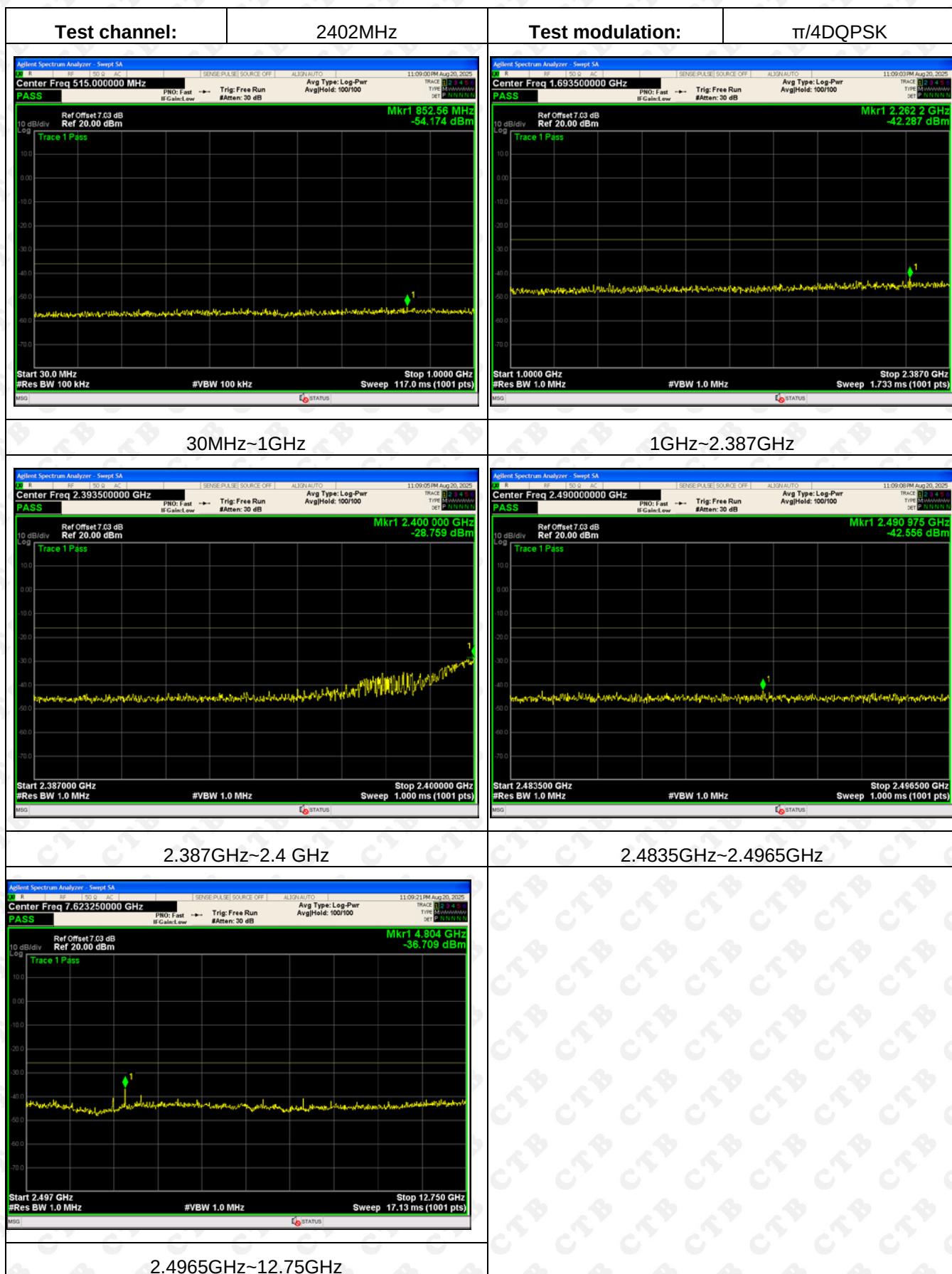
Test mode	Test Channel	Test freq. range	Emission Frequency (MHz)	Test result (dBm/MHz)	Test result (uW/MHz)	limits (uW/MHz)	Result
8DPSK	Low	30MHz≤f≤1000MHz	931.13	-53.84	0.041	2.5	PASS
		1000MHz < f≤2387MHz	2337.07	-42.02	0.063	2.5	PASS
		2387MHz < f≤2400MHz	2399.96	-28.43	1.435	25	PASS
		2483.5MHz≤f < 2496.5MHz	2484.36	-42.52	0.056	25	PASS
		2496.5MHz≤f < 12750MHz	3419.32	-35.76	0.265	2.5	PASS
	Middle	30MHz≤f≤1000MHz	967.02	-53.5	0.004	2.5	PASS
		1000MHz < f≤2387MHz	2045.8	-42.78	0.053	2.5	PASS
		2387MHz < f≤2400MHz	2391.5	-43.06	0.049	25	PASS
		2483.5MHz≤f < 2496.5MHz	2491.74	-41.8	0.066	25	PASS
		2496.5MHz≤f < 12750MHz	3409.06	-35.18	0.303	2.5	PASS
	High	30MHz≤f≤1000MHz	742.95	-53.86	0.004	2.5	PASS
		1000MHz < f≤2387MHz	2385.61	-42.36	0.058	2.5	PASS
		2387MHz < f≤2400MHz	2393.81	-42.74	0.053	25	PASS
		2483.5MHz≤f < 2496.5MHz	2483.62	-29.51	1.119	25	PASS
		2496.5MHz≤f < 12750MHz	3398.81	-38.79	0.132	2.5	PASS

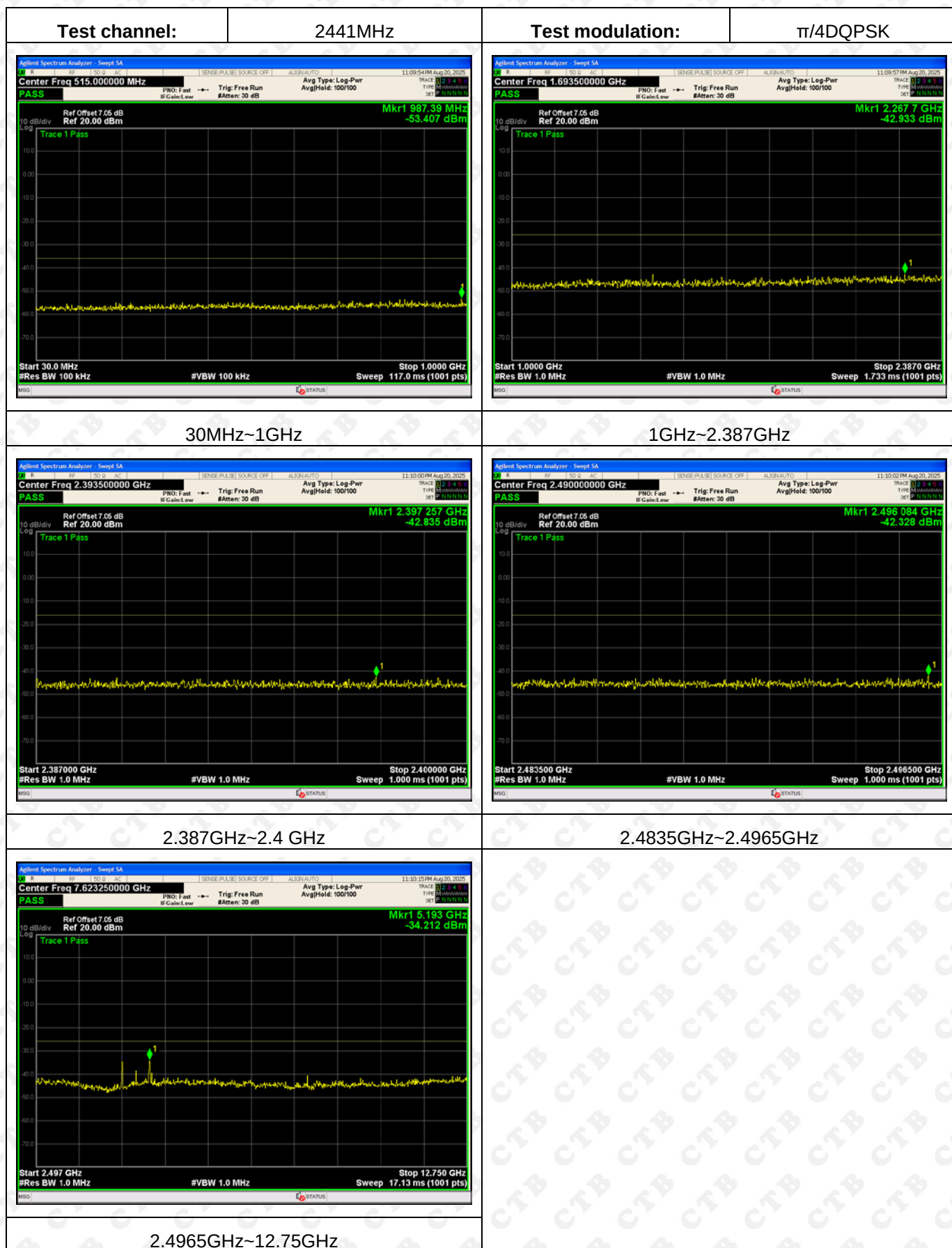
Left ear:







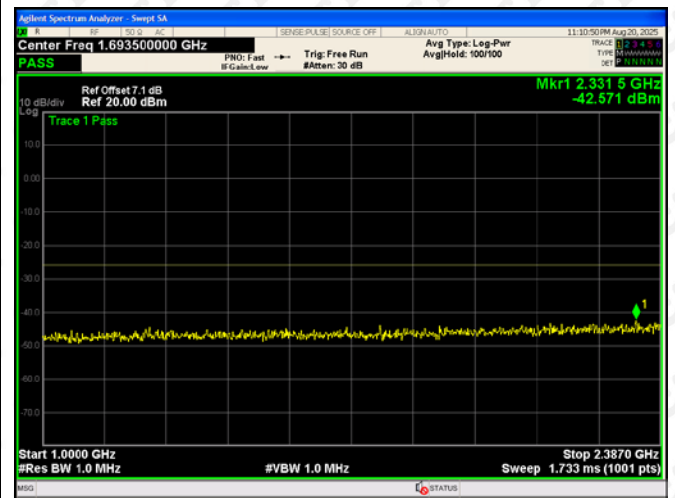
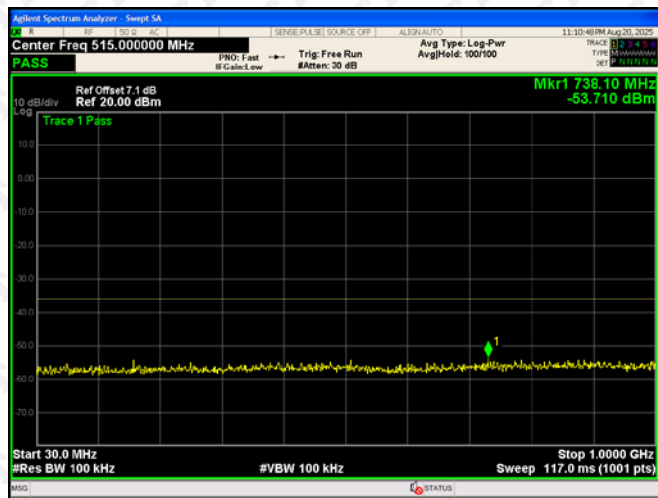




Test channel:

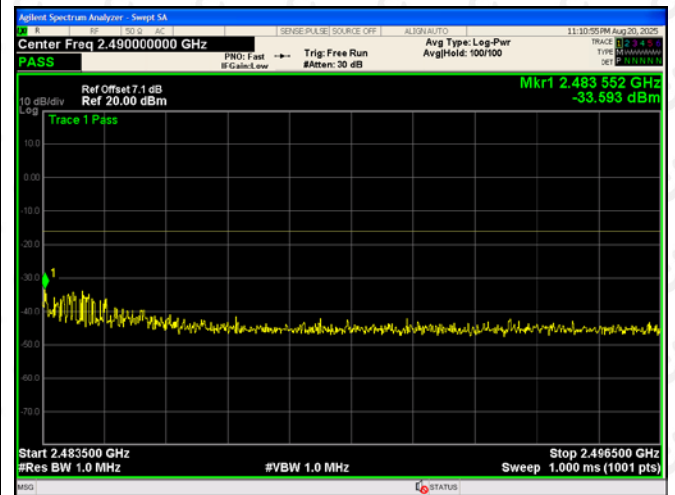
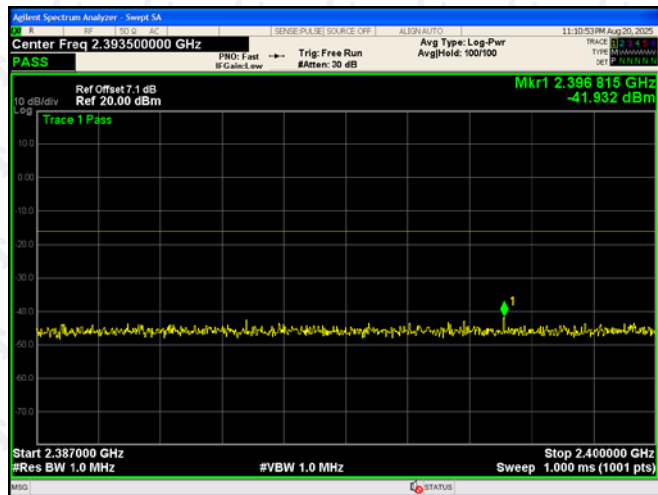
2480MHz

Test modulation:

 $\pi/4$ DQPSK


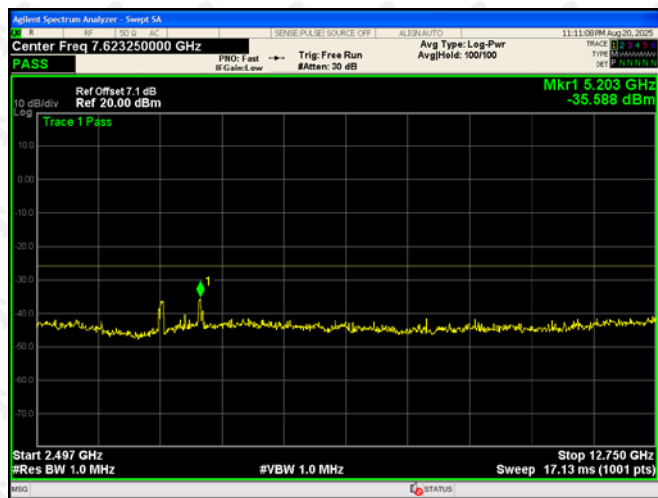
30MHz~1GHz

1GHz~2.387GHz

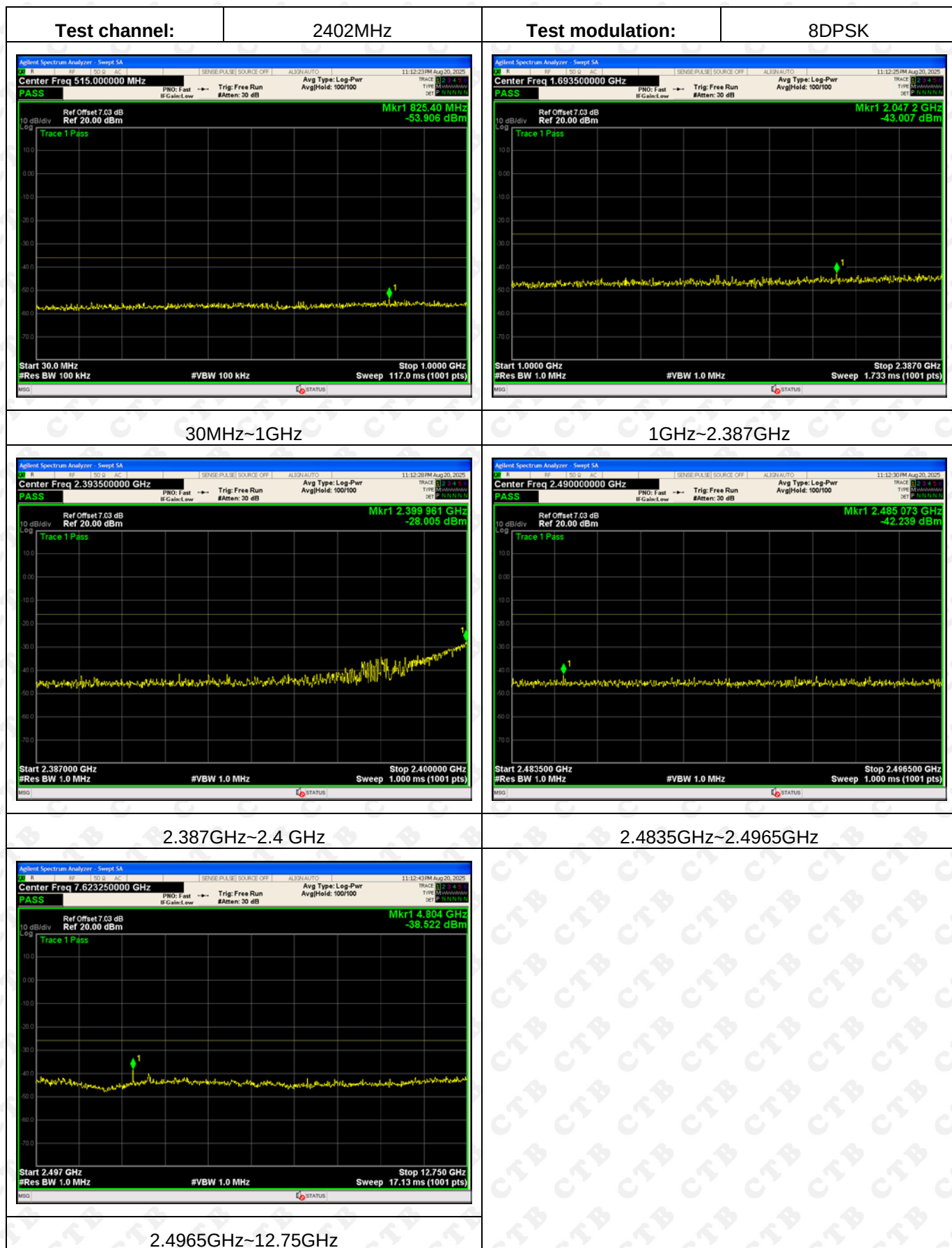


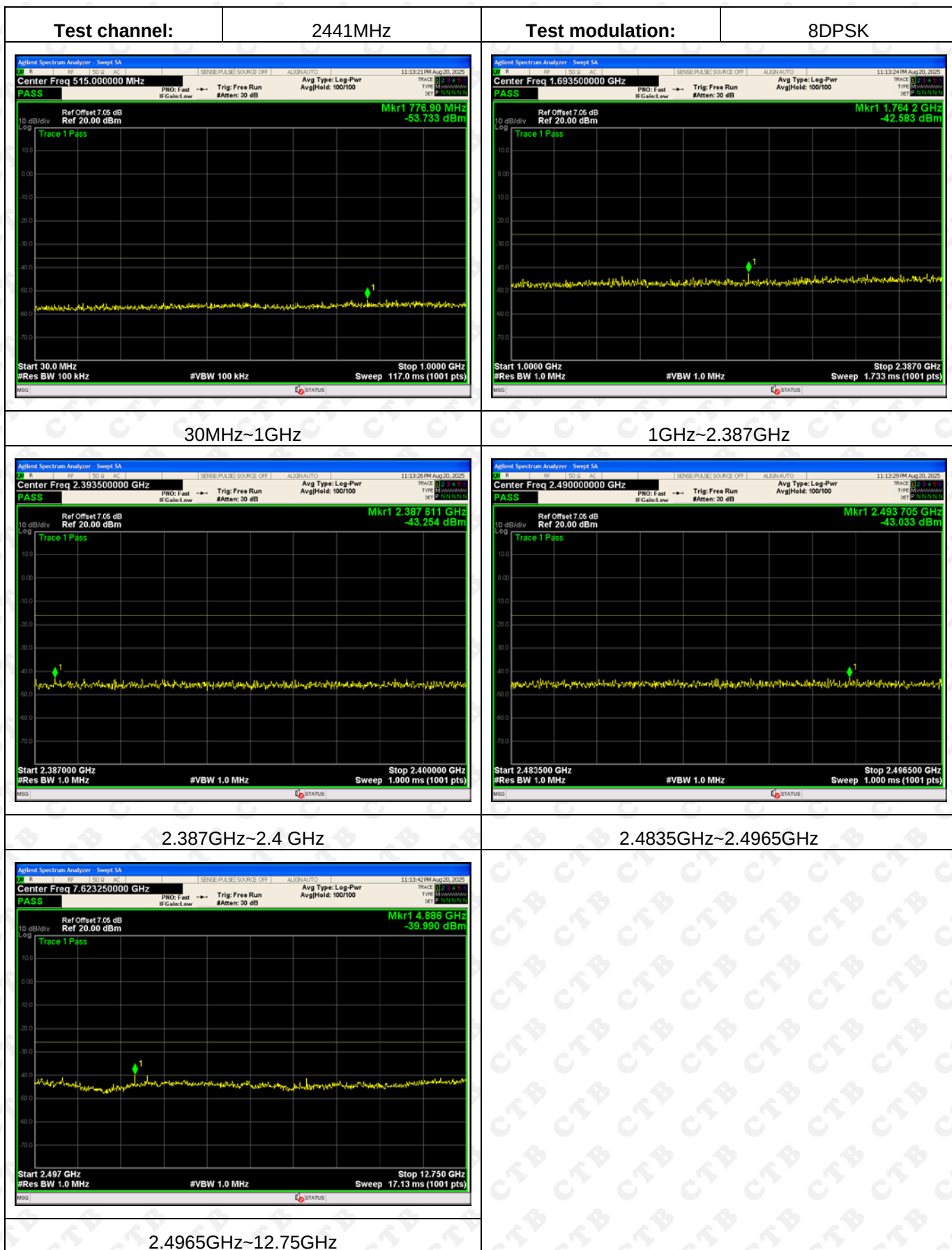
2.387GHz~2.4 GHz

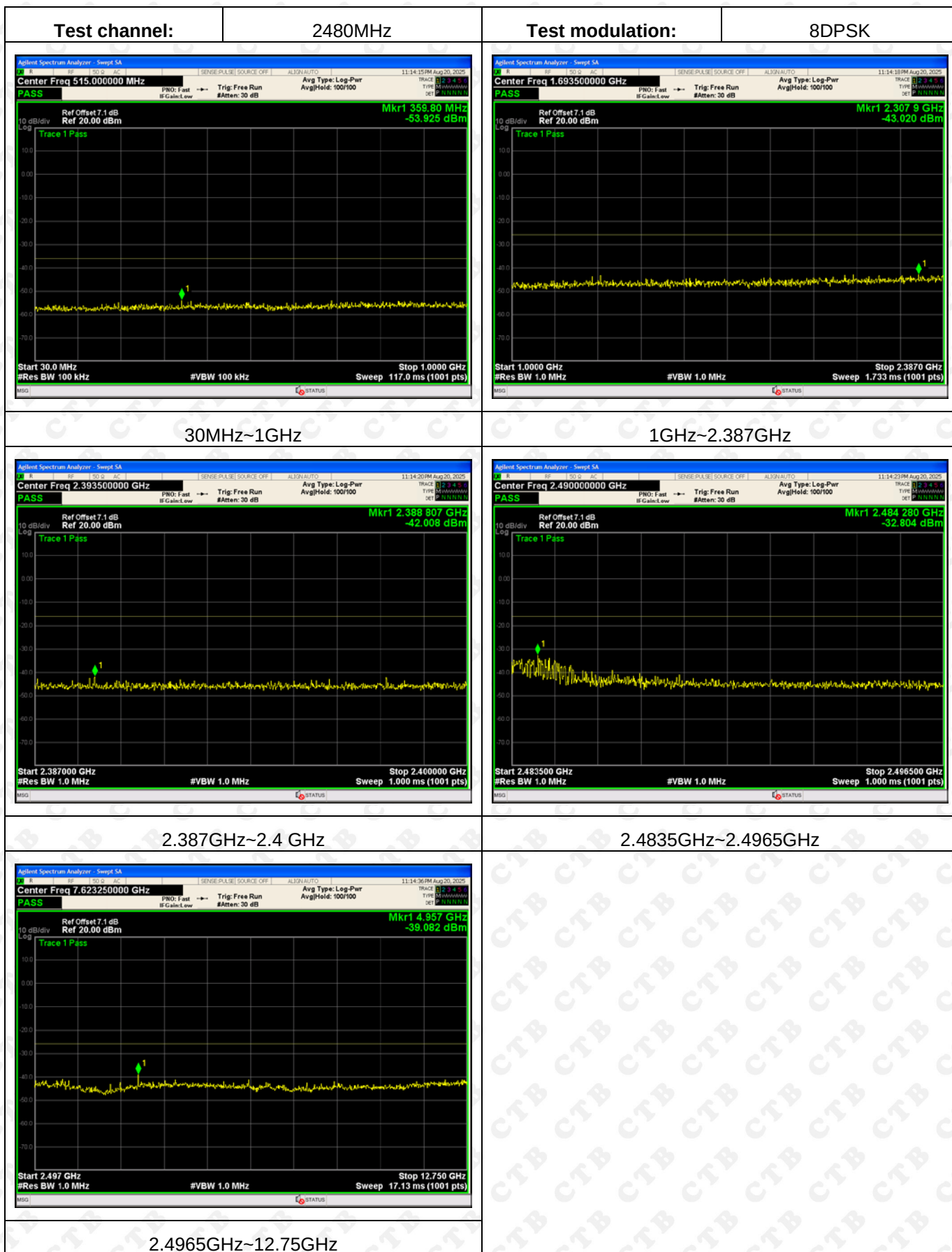
2.4835GHz~2.4965GHz



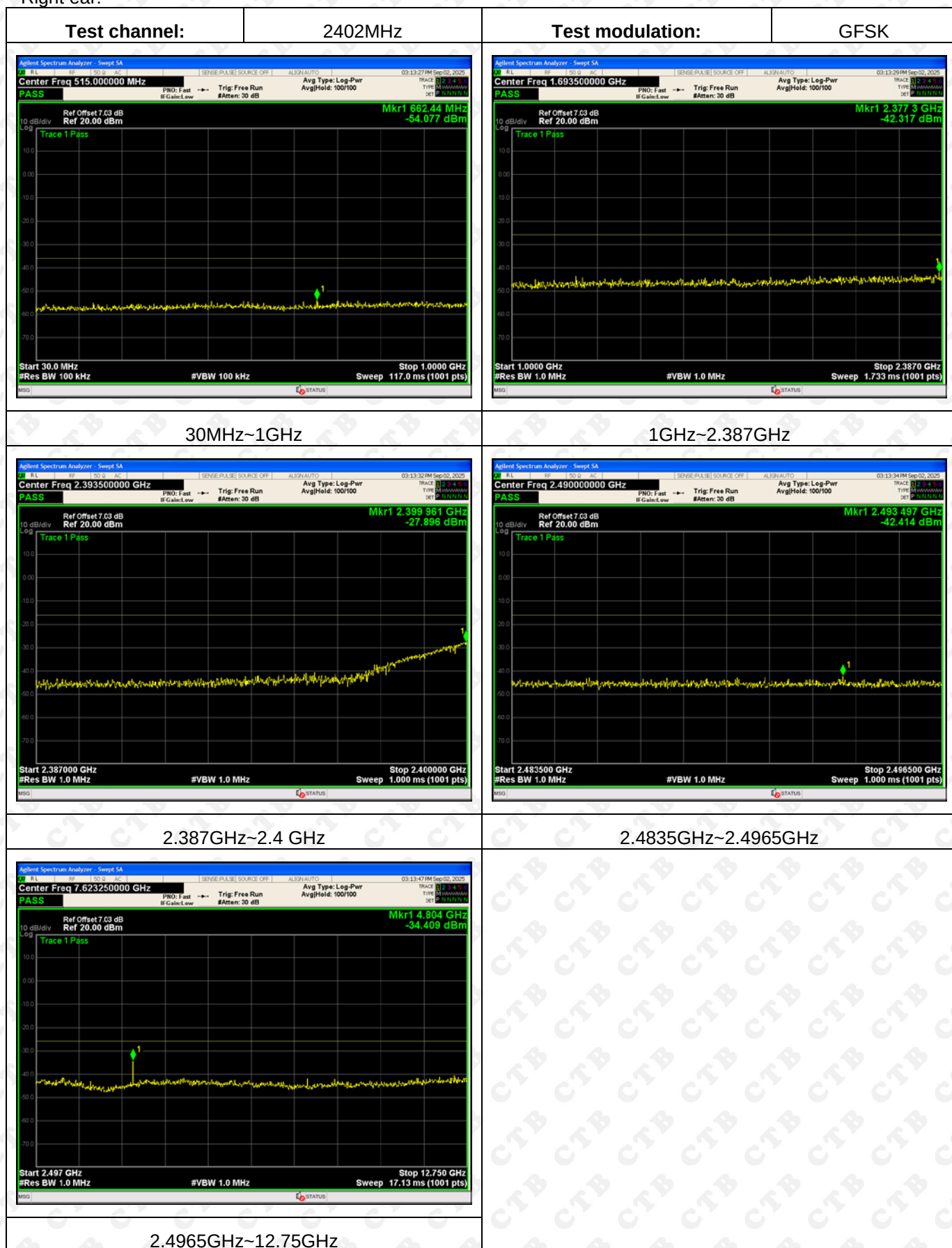
2.4965GHz~12.75GHz

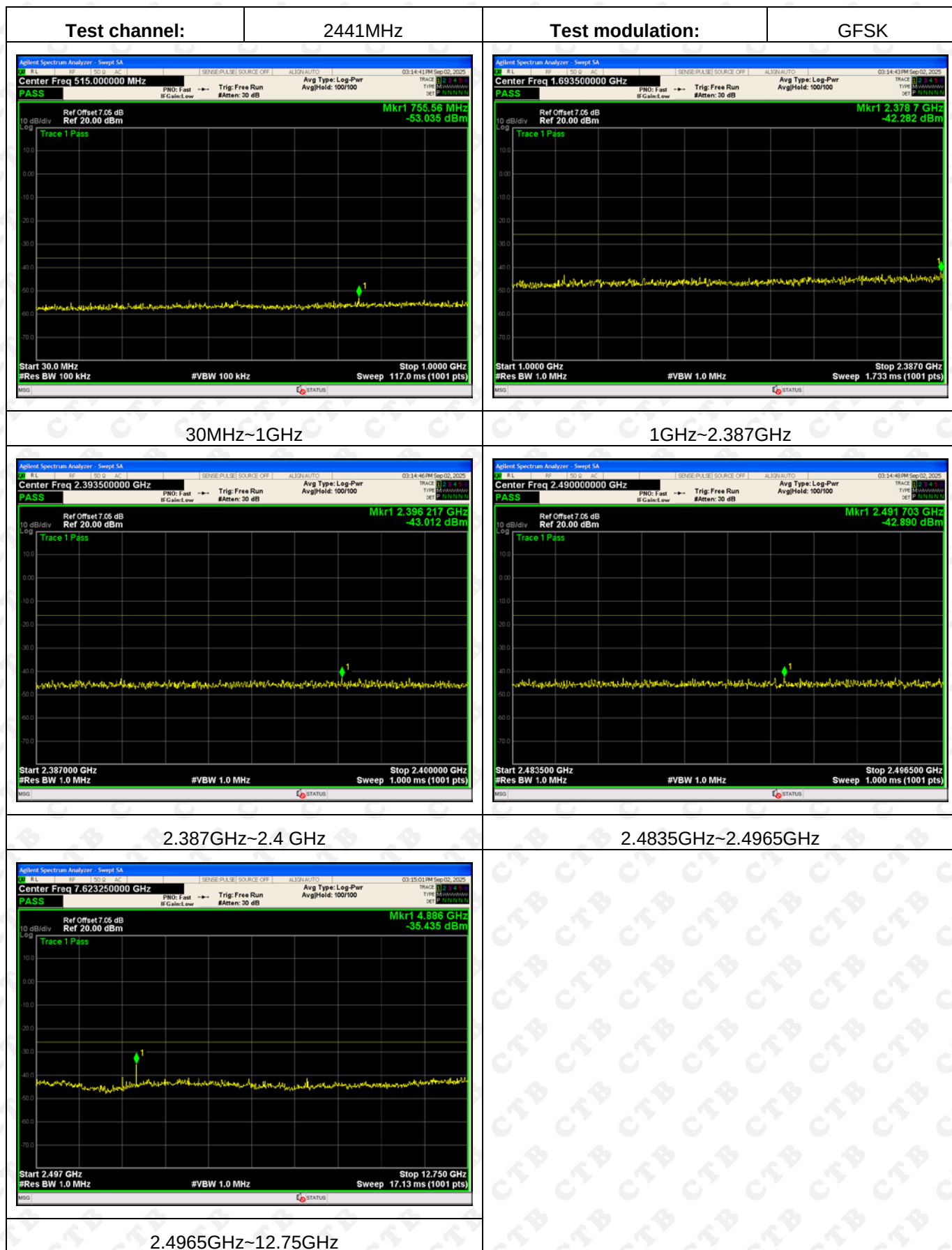


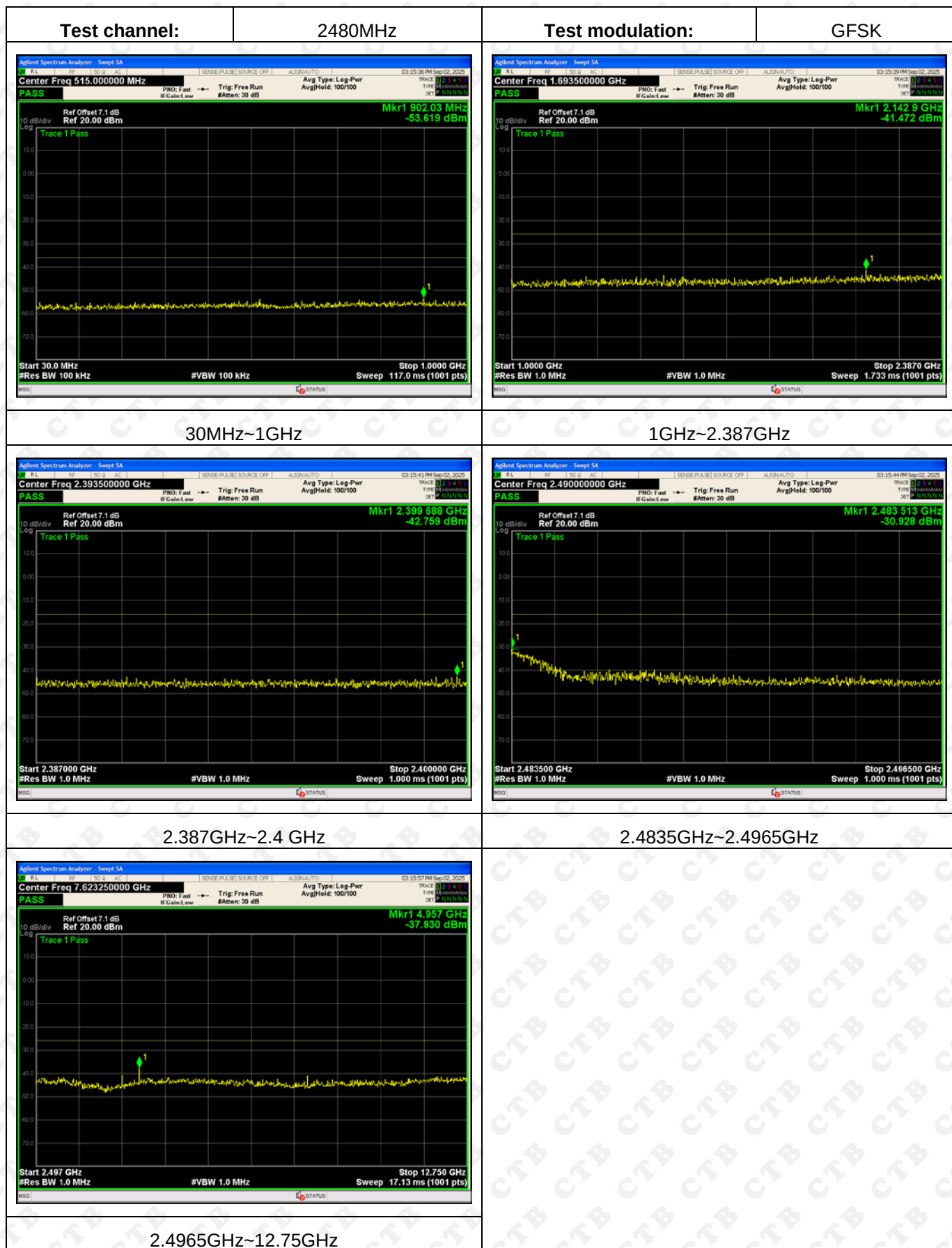


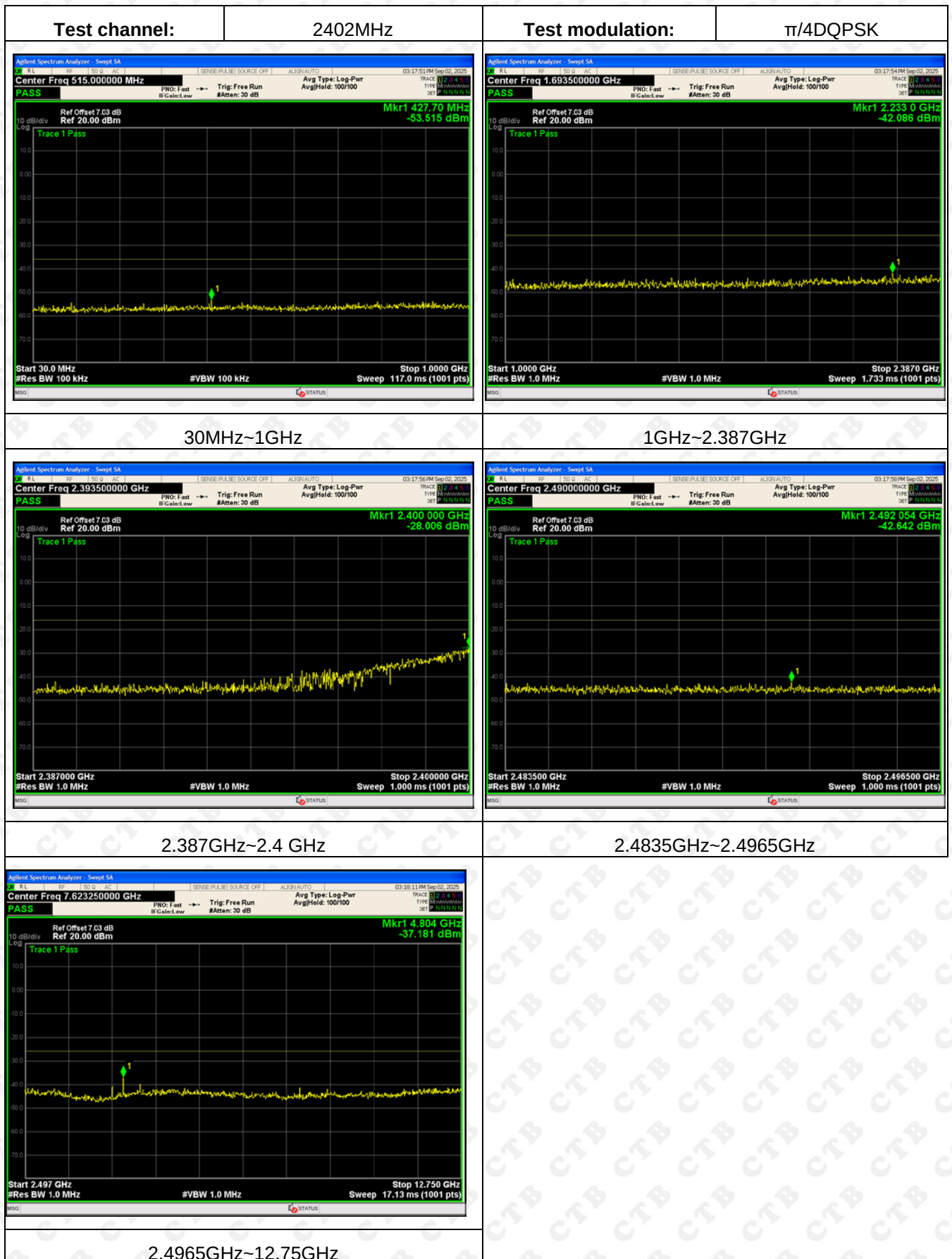


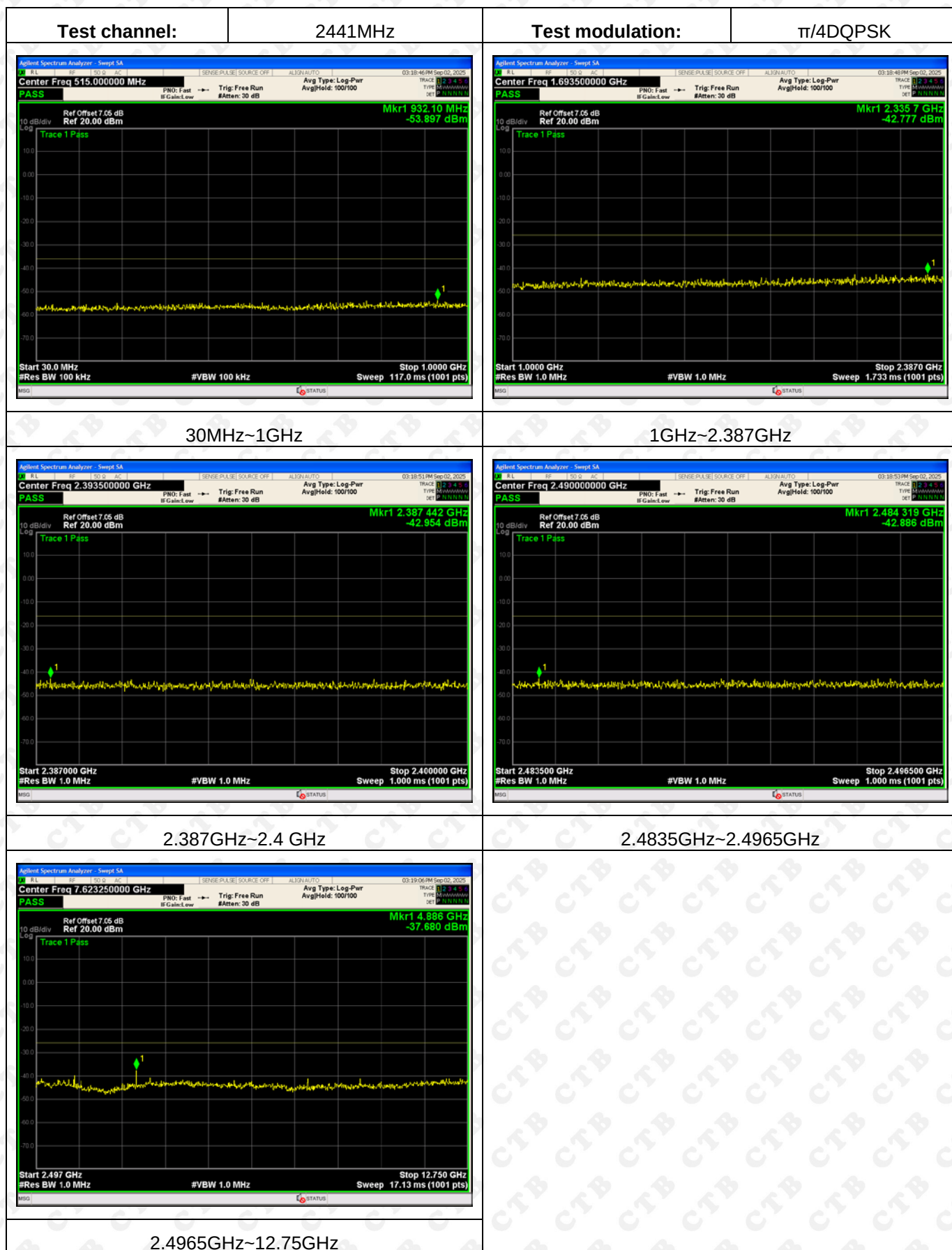
Right ear:







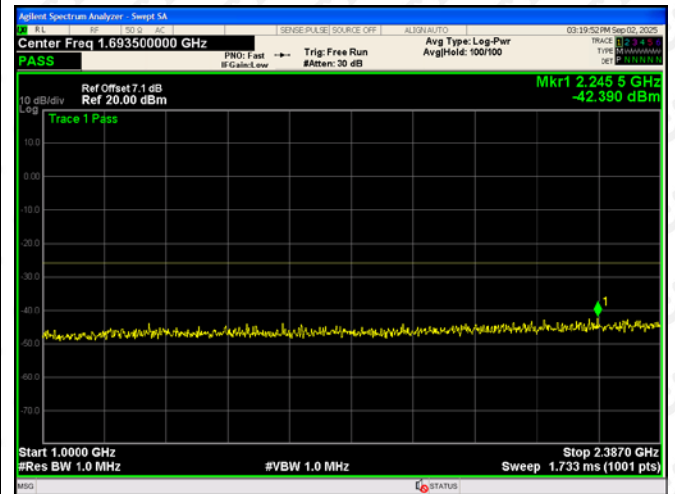
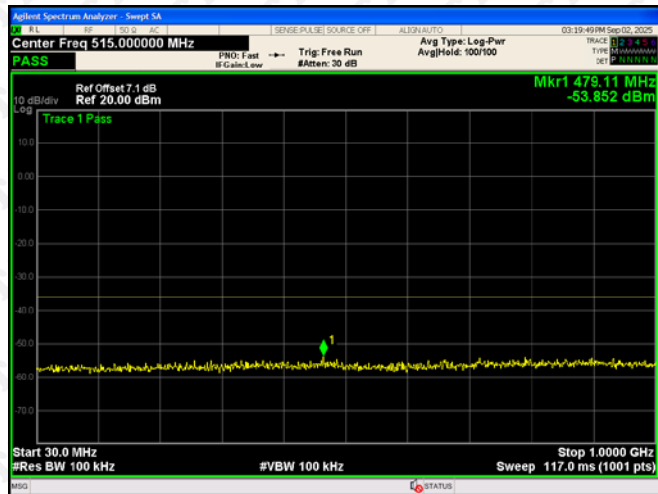




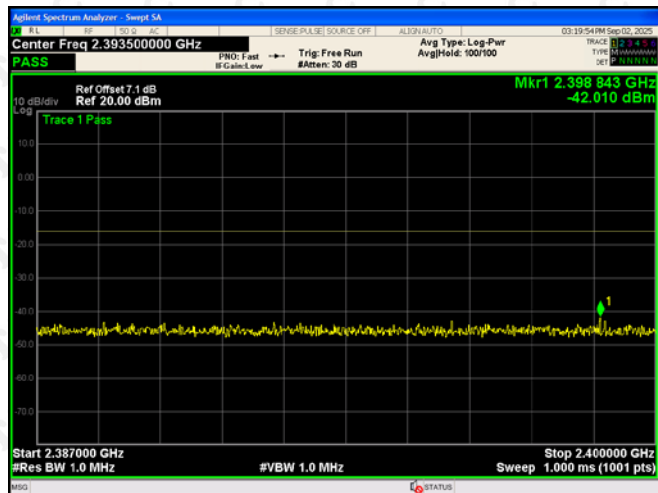
Test channel:

2480MHz

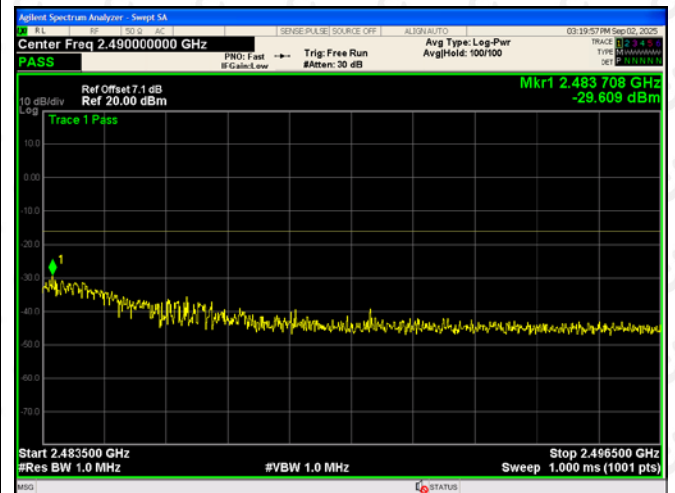
Test modulation:

 $\pi/4$ DQPSK


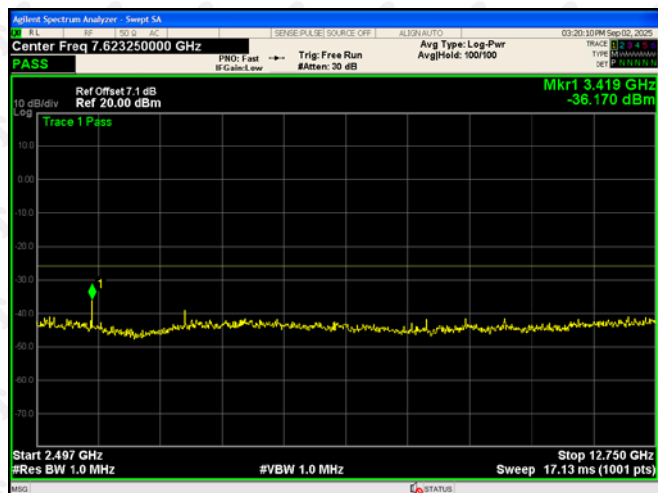
30MHz~1GHz



1GHz~2.387GHz

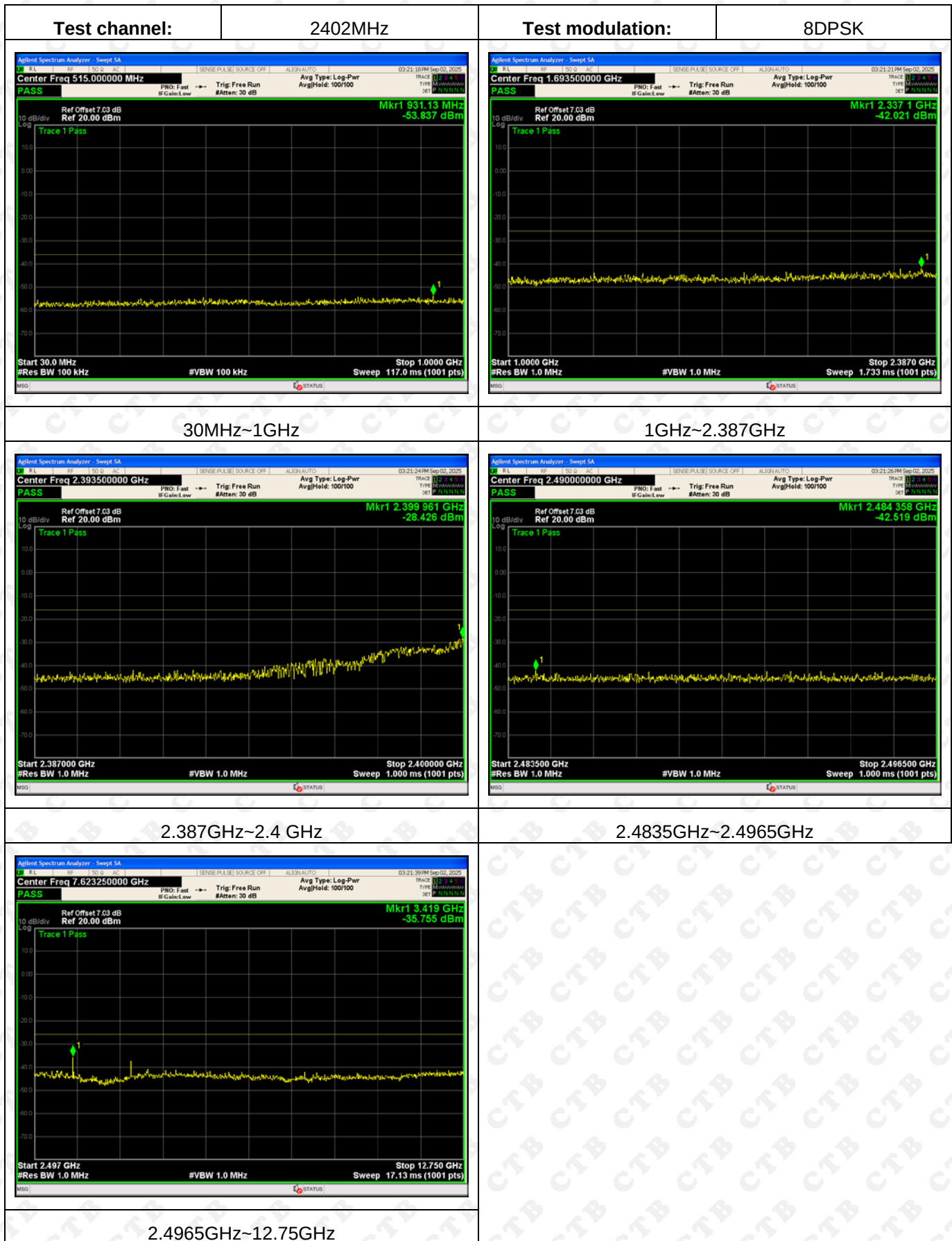


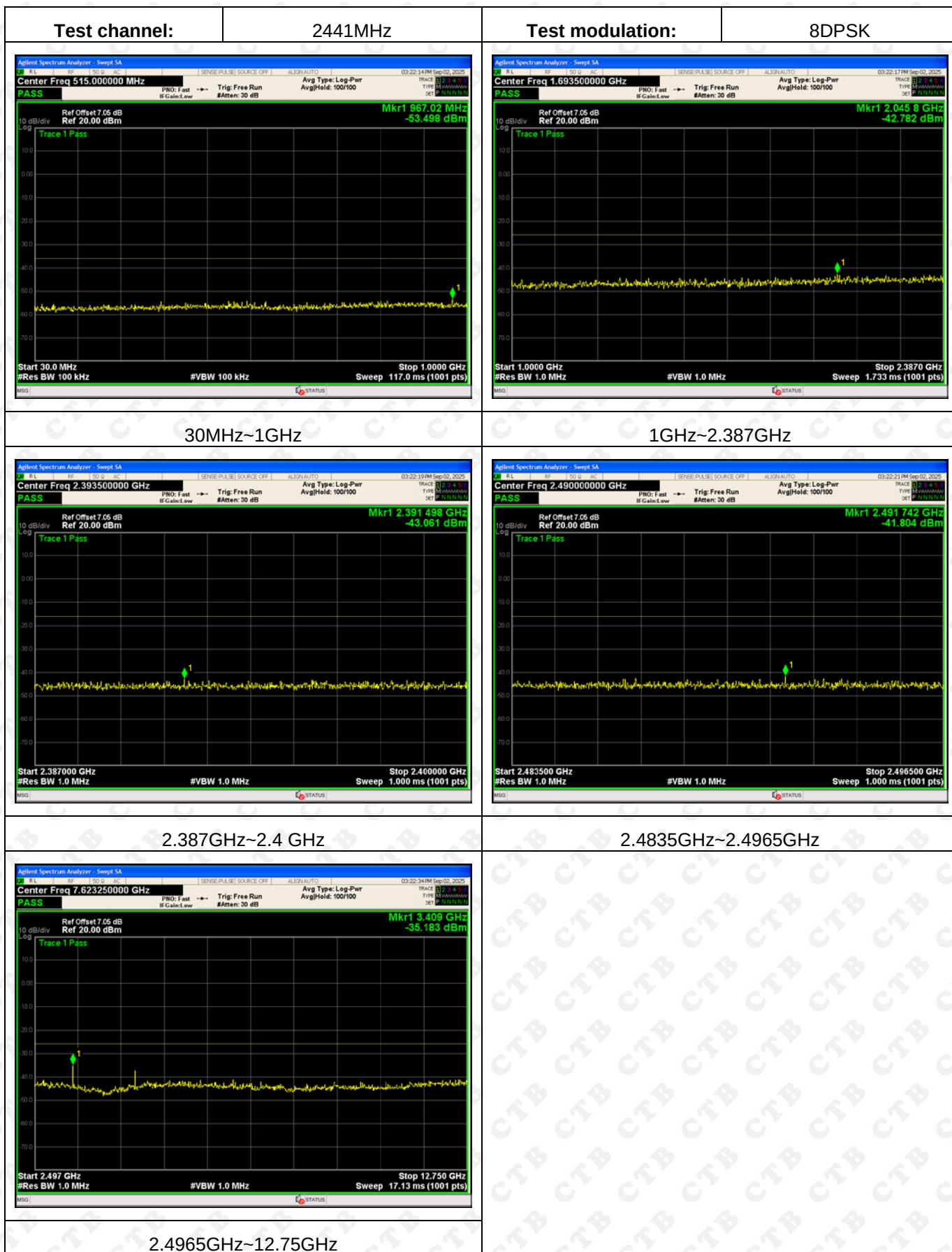
2.387GHz~2.4 GHz

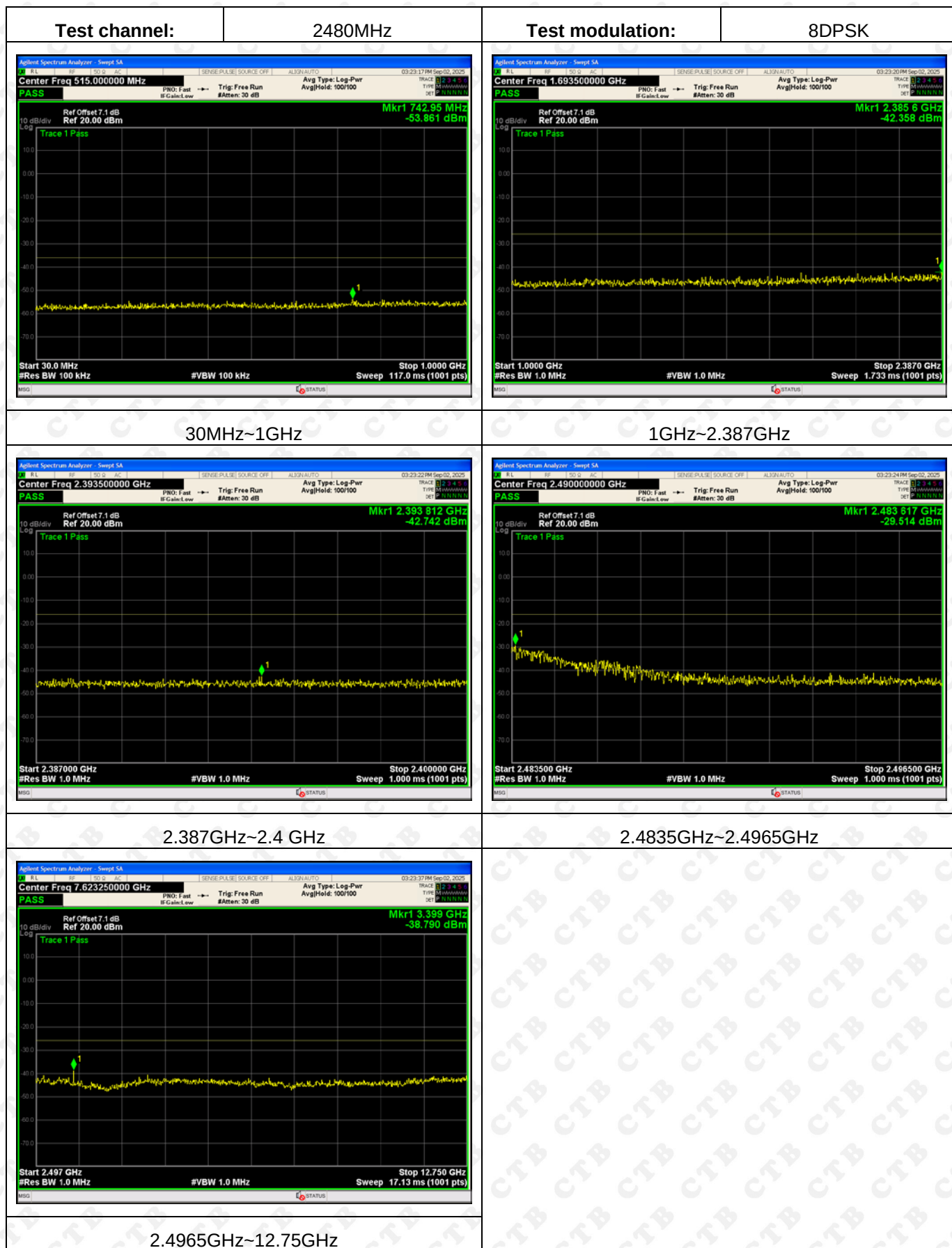


2.4835GHz~2.4965GHz

2.4965GHz~12.75GHz





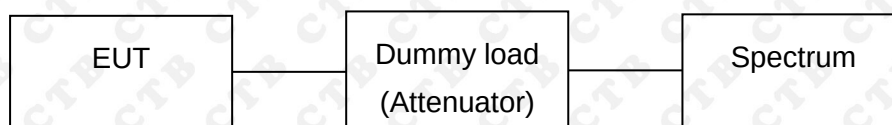


3.5 Secondary radiated emission strength

3.5.1 Limit

Item	Limits
RX Spurious Emission:	$\leq 4\text{nW}$ ($f < 1\text{GHz}$)
	$\leq 20\text{nW}$ ($1\text{GHz} \leq f$)

3.5.2 Test configuration



3.5.3 Test procedure

The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram as TEST CONFIGURATION shows.

EUT Condition: modulation

Spectrum Condition:

Frequency: 30MHz-12.75GHz

RBW: 100 kHz (30MHz-1GHz), 1MHz (1GHz-12.75GHz)

VBW: 100 kHz (30MHz-1GHz), 1MHz (1GHz-12.75GHz)

Sweep time: Auto

Detector mode: Positive peak

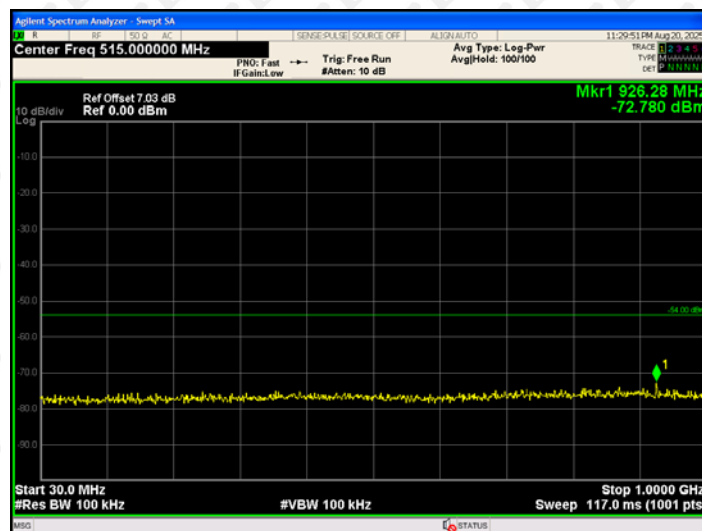
Indication mode: max hold

3.5.4 Test results

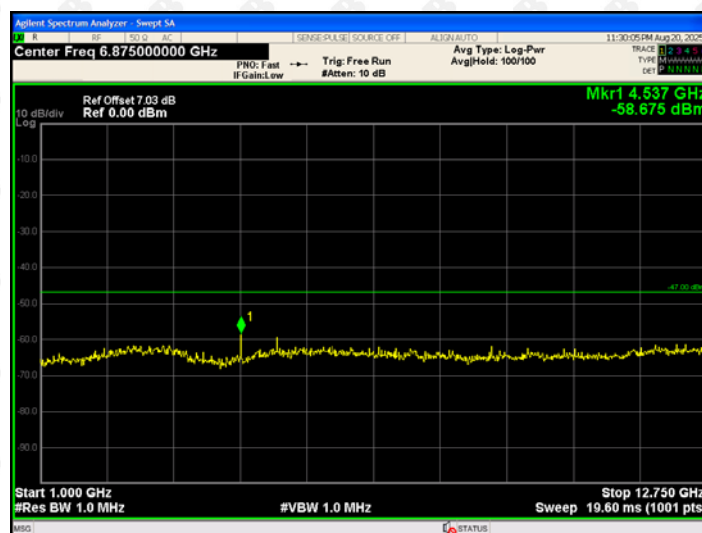
Left ear:

Test mode	Test freq. range	Emission Frequency (MHz)	Test result dBm	Test result nW	Limit nW	Result
GFSK	30MHz≤f≤1000MHz	926.28	-72.78	0.053	4	PASS
	1000MHz < f≤12750MHz	4536.75	-58.68	1.355	20	PASS

30MHz~1GHz

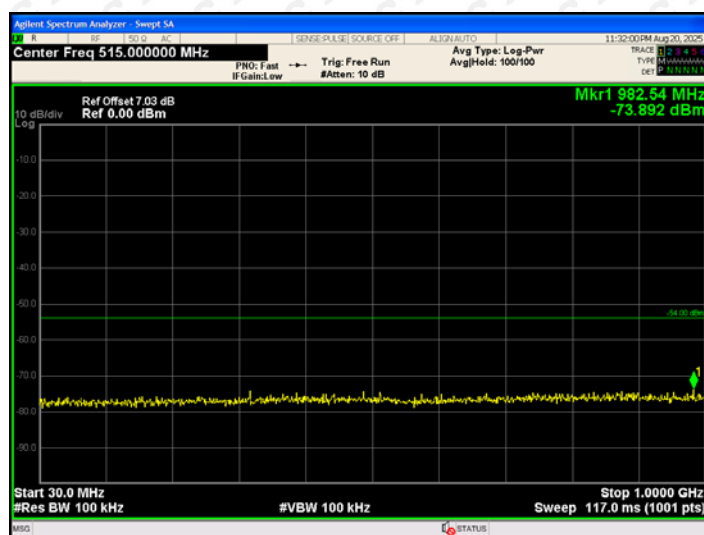


1GHz~12.75GHz

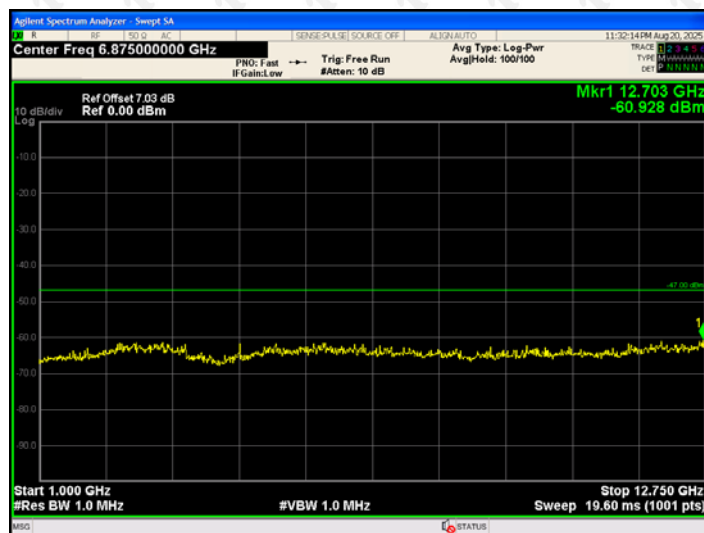


Test mode	Test freq. range	Emission Frequency (MHz)	Test result dBm	Test result nW	Limit nW	Result
$\pi/4$ DQPSK	30MHz $\leq$ f $\leq$ 1000MHz	982.54	-73.89	0.041	4	PASS
	1000MHz < f $\leq$ 12750MHz	12703	-60.93	0.807	20	PASS

30MHz~1GHz

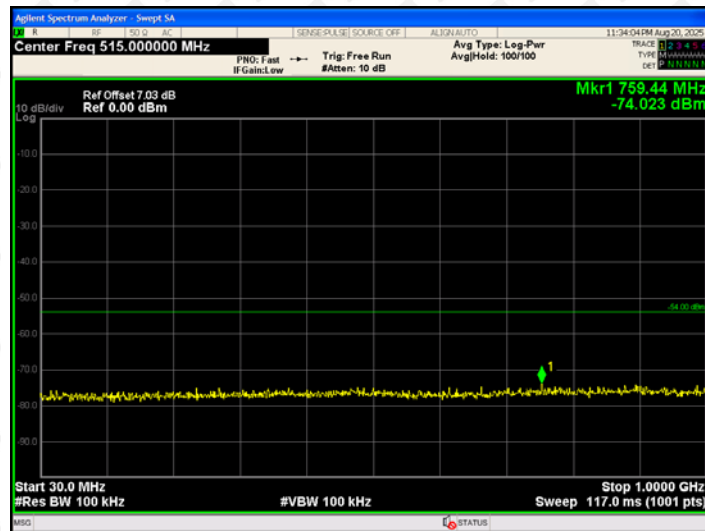


1GHz~12.75GHz

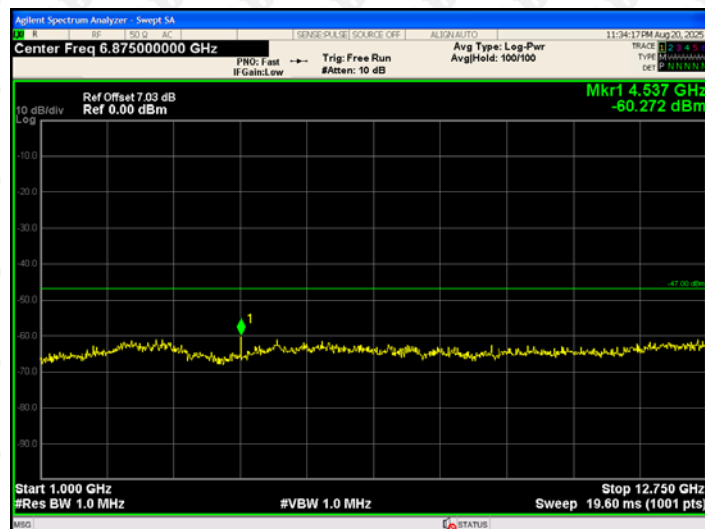


Test mode	Test freq. range	Emission Frequency (MHz)	Test result dBm	Test result nW	Limit nW	Result
8DPSK	30MHz≤f≤1000MHz	759.44	-74.02	0.040	4	PASS
	1000MHz < f≤12750MHz	4536.75	-60.27	0.940	20	PASS

30MHz~1GHz



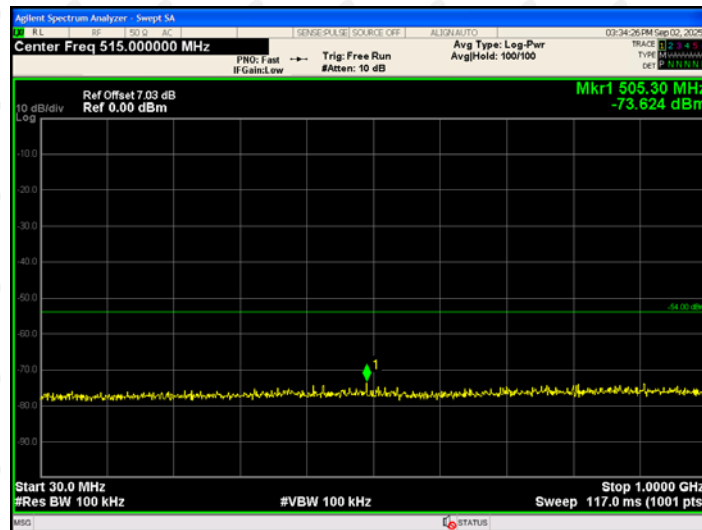
1GHz~12.75GHz



Right ear:

Test mode	Test freq. range	Emission Frequency (MHz)	Test result dBm	Test result nW	Limit nW	Result
GFSK	30MHz≤f≤1000MHz	505.3	-73.62	0.043	4	PASS
	1000MHz < f≤12750MHz	2680.25	-60.31	0.931	20	PASS

30MHz~1GHz

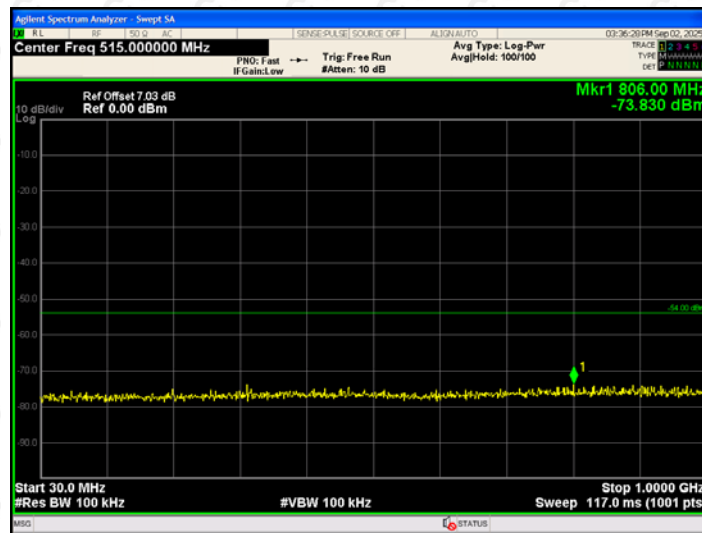


1GHz~12.75GHz



Test mode	Test freq. range	Emission Frequency (MHz)	Test result dBm	Test result nW	Limit nW	Result
$\pi/4$ DQPSK	30MHz $\leq$ f $\leq$ 1000MHz	806	-73.83	0.041	4	PASS
	1000MHz < f $\leq$ 12750MHz	2562.75	-61.13	0.771	20	PASS

30MHz~1GHz

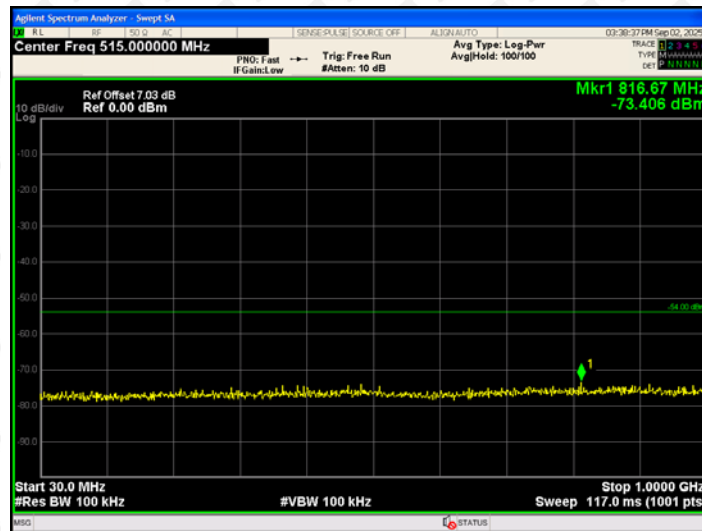


1GHz~12.75GHz

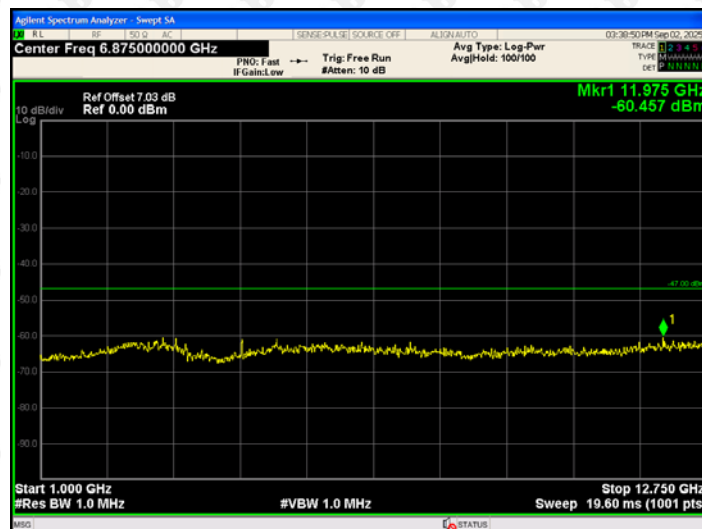


Test mode	Test freq. range	Emission Frequency (MHz)	Test result dBm	Test result nW	Limit nW	Result
8DPSK	30MHz≤f≤1000MHz	816.67	-73.41	0.046	4	PASS
	1000MHz < f≤12750MHz	11974.5	-60.46	0.899	20	PASS

30MHz~1GHz



1GHz~12.75GHz



3.6 DWELL TIME

3.6.1 LIMIT

Item	Limits
Hopping Freq. Dwell Time	≤ 0.4 sec (In 0.4 sec $\times$ spreading rate)

3.6.2 MEASURING INSTRUMENTS AND SETTING

Please refer to section 5 in this report. The following table is the setting of the spectrum analyzer.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	0 Hz
RBW	1 MHz
VBW	3 MHz
Detector	Peak
Trace	Max Hold
Sweep	Continuous

3.6.3 TEST PROCEDURES

The transmitter output (antenna port) was connected to the spectrum analyzer

- Set RBW of spectrum analyzer to 1MHz and VBW to 1MHz.
- Use a video trigger with the trigger level set to enable triggering only on full pulses.
- Sweep Time is more than once pulse time.
- Set the center frequency on any frequency would be measure and set the frequency span to zero span.
- Measure the maximum time duration of one single pulse.
- Set the EUT for DH5, DH3 and DH1 packet transmitting.
- Measure the maximum time duration of one single pulse.
- Dwell time = $[\text{spreading rate}/79] \times \text{duty-cycle} \times 0.4$ seconds. (to be determined for each mode, DH1, DH3, DH5)

3.6.4 TEST SETUP LAYOUT



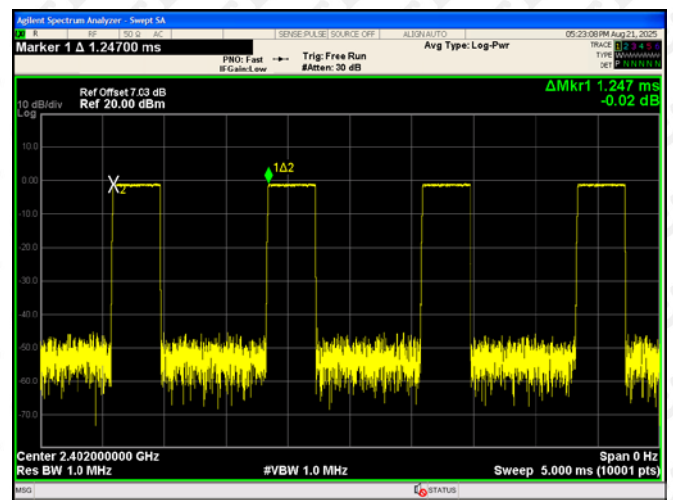
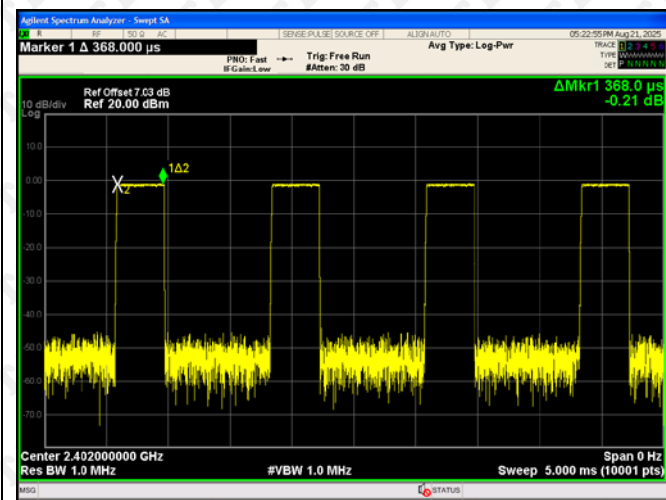
3.6.5 TEST RESULT

Left ear:

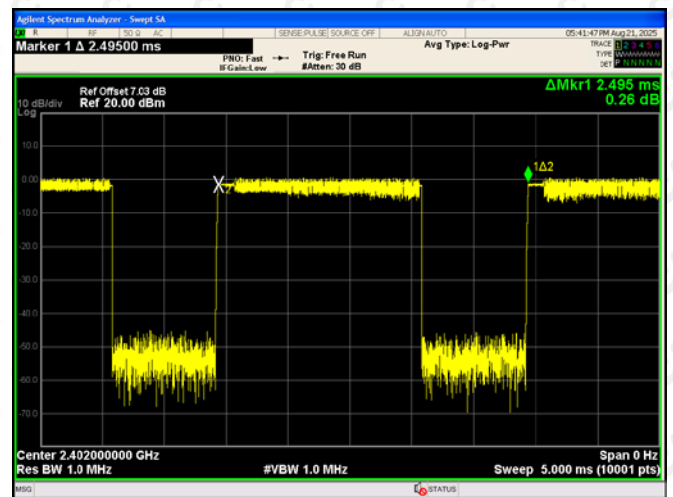
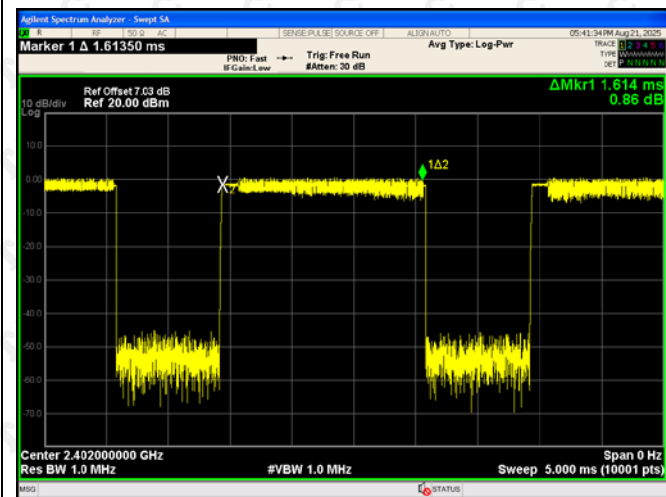
Test condition	Normal
Test modulation:	GFSK

Data Packet	90% Spread BW	On time	burst cycle	Duty cycle	Dwell Time	Limits
	(MHz)	(ms)	(ms)	(%)	(s)	(s)
DH1	70.4405	0.368	1.247	0.295	0.105	0.400
DH3	70.4405	1.614	2.495	0.647	0.231	0.400
DH5	70.4405	2.883	3.762	0.766	0.273	0.400

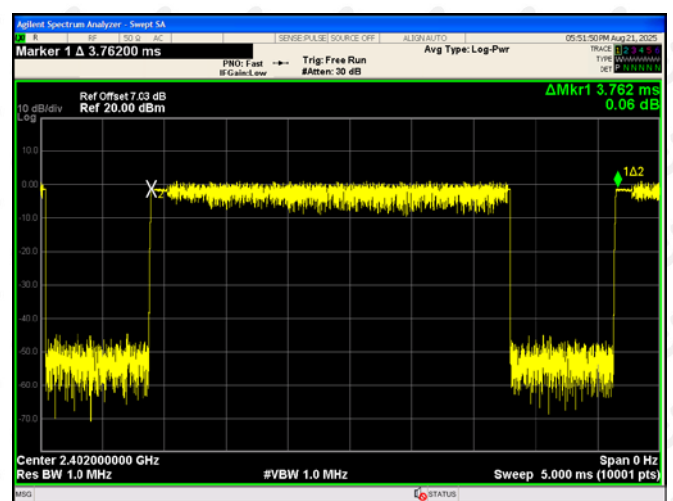
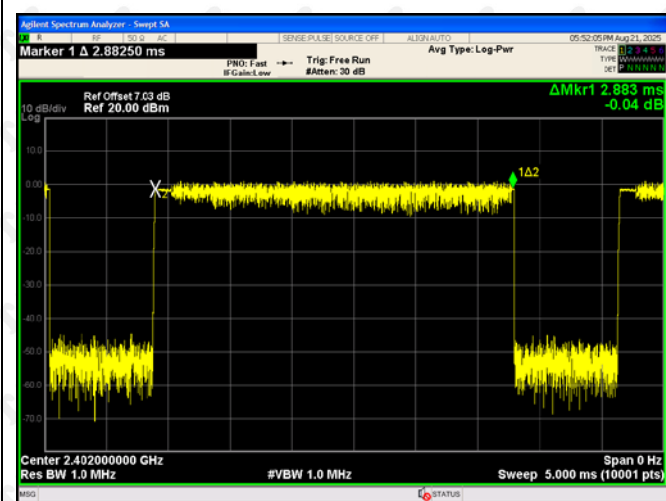
1DH1



2DH3



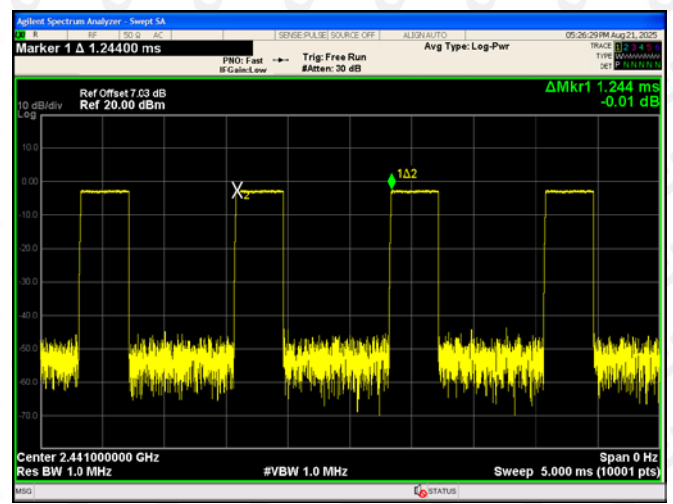
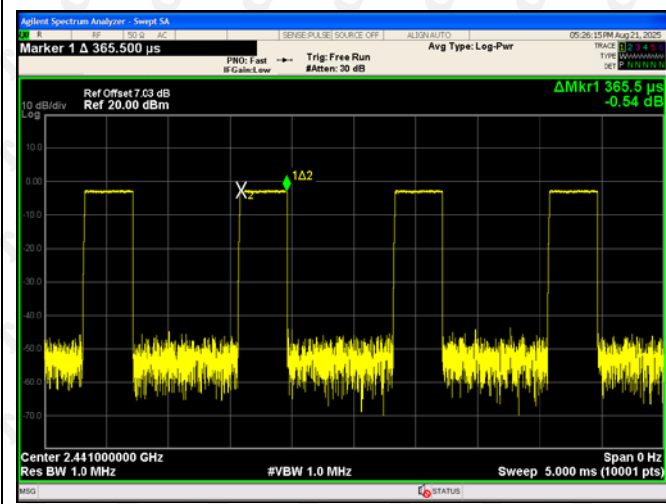
3DH5



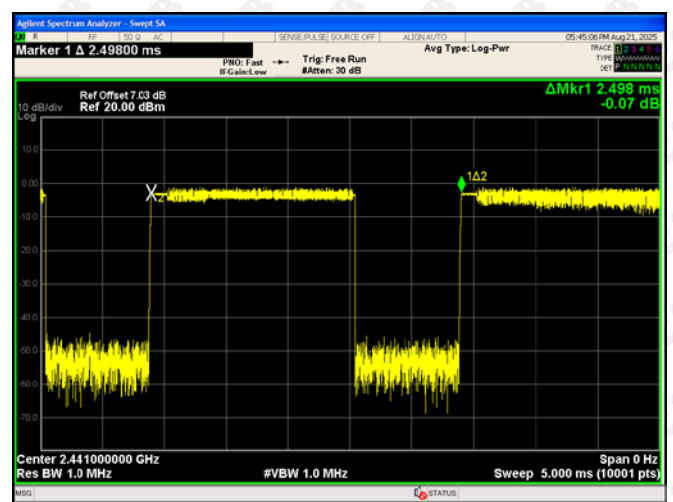
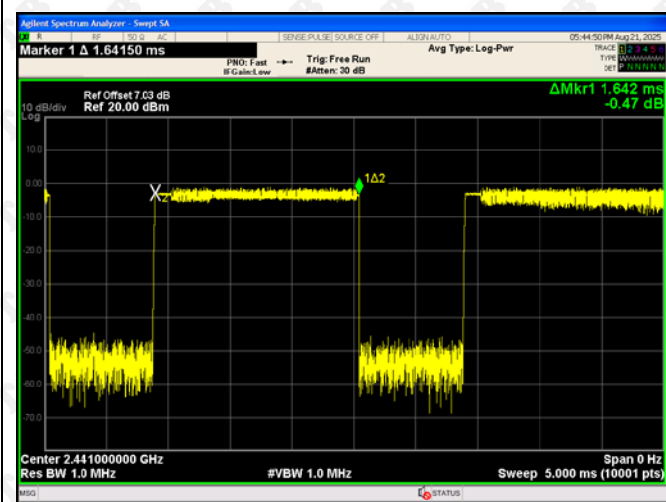
Test condition	Normal
Test modulation:	π /4-DPSK

Data Packet	90% Spread BW	On time	burst cycle	Duty cycle	Dwell Time	Limits
	(MHz)	(ms)	(ms)	(%)	(s)	(s)
DH1	71.1825	0.366	1.244	0.294	0.106	0.400
DH3	71.1825	1.642	2.498	0.657	0.237	0.400
DH5	71.1825	2.883	3.745	0.770	0.277	0.400

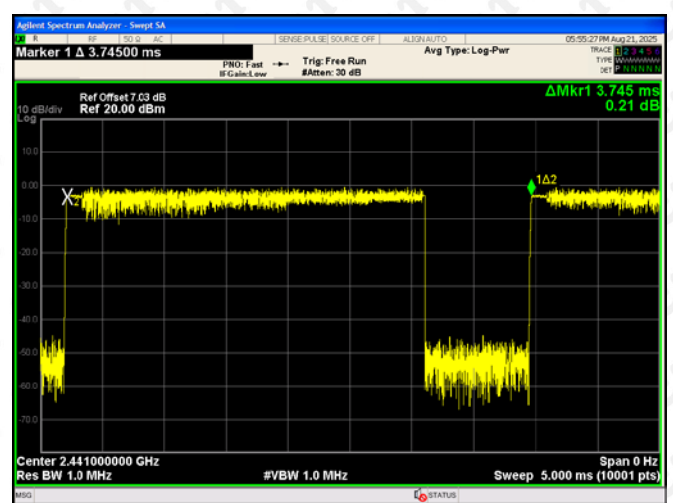
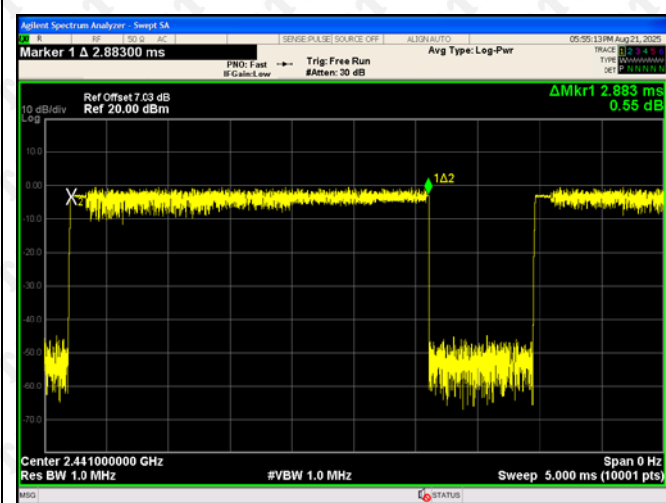
1DH1



2DH3



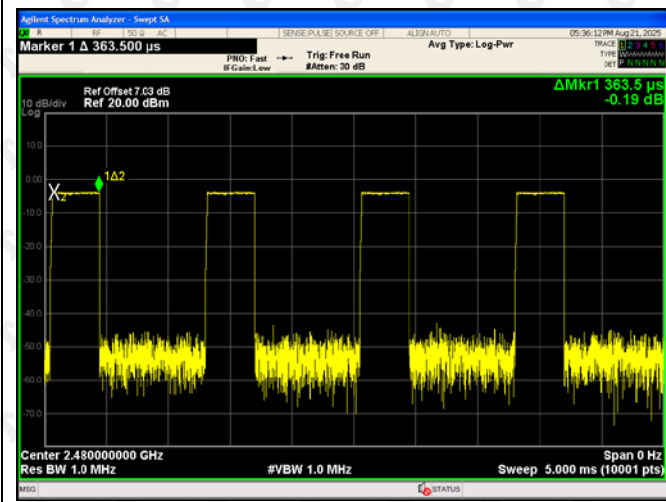
3DH5



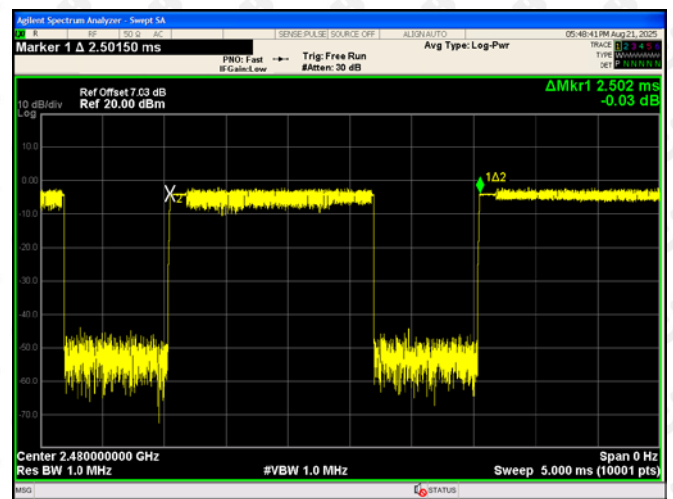
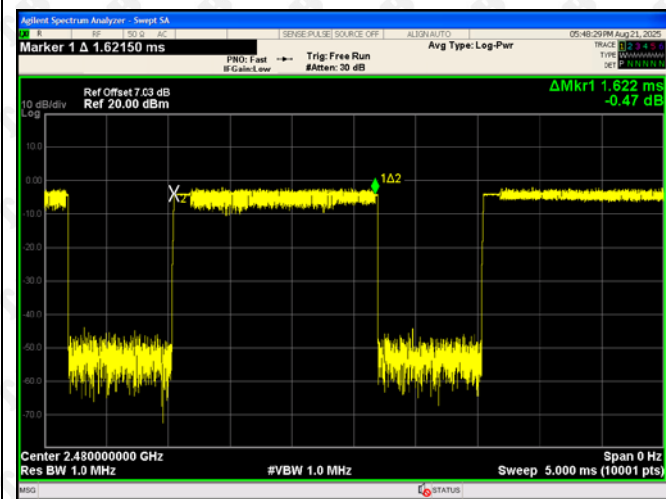
Test condition	Normal
Test modulation:	8DPSK

Data Packet	90% Spread BW	On time	burst cycle	Duty cycle	Dwell Time	Limits
	(MHz)	(ms)	(ms)	(%)	(s)	(s)
DH1	69.9969	0.364	1.240	0.294	0.104	0.400
DH3	69.9969	1.622	2.502	0.648	0.230	0.400
DH5	69.9969	2.873	3.745	0.767	0.272	0.400

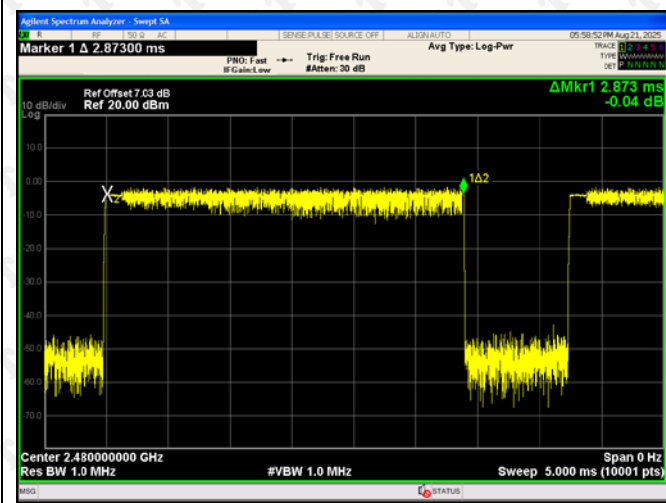
1DH1



2DH3



3DH5

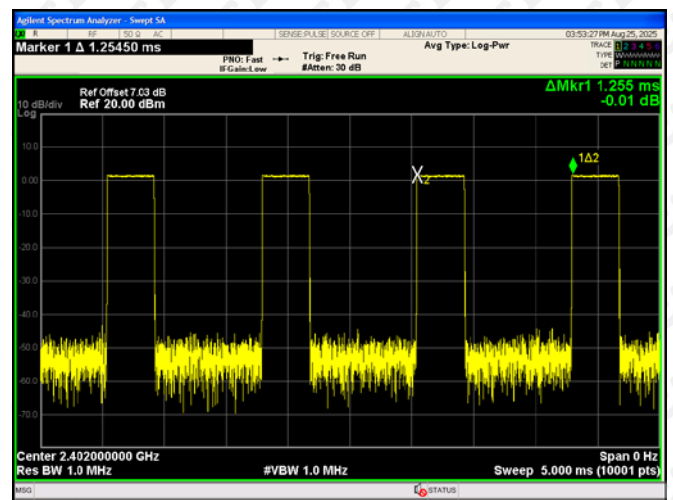
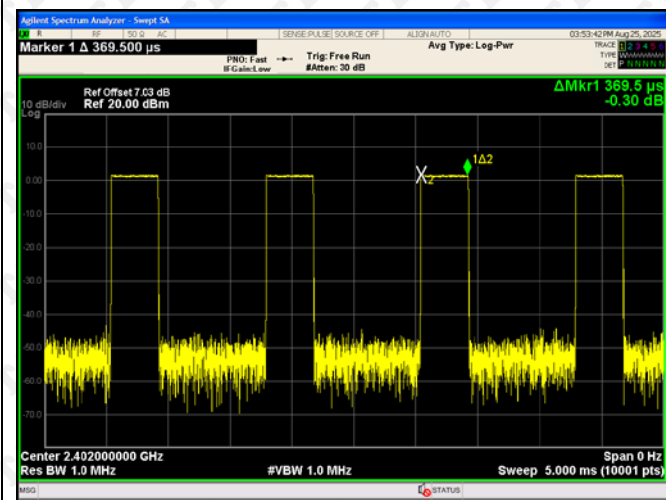


Right ear:

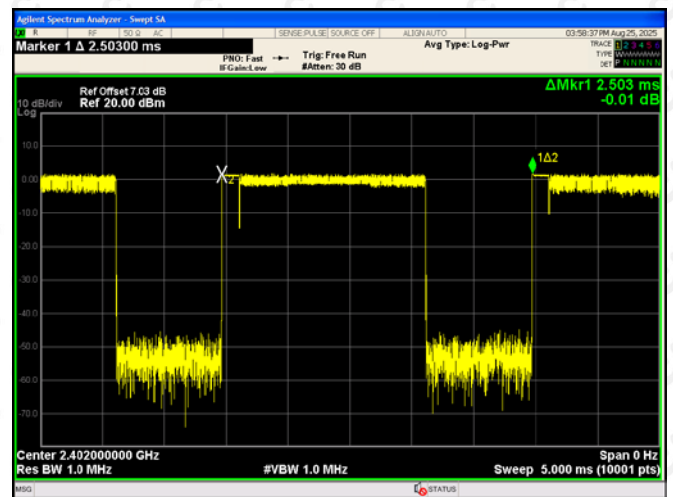
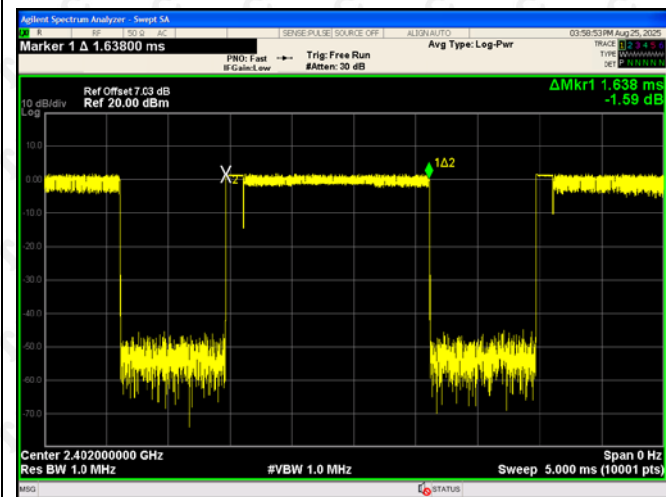
Test condition	Normal
Test modulation:	GFSK

Data Packet	90% Spread BW	On time	burst cycle	Duty cycle	Dwell Time	Limits
	(MHz)	(ms)	(ms)	(%)	(s)	(s)
DH1	72.4198	0.367	1.255	0.292	0.107	0.400
DH3	72.4198	1.638	2.503	0.654	0.240	0.400
DH5	72.4198	2.886	3.747	0.770	0.282	0.400

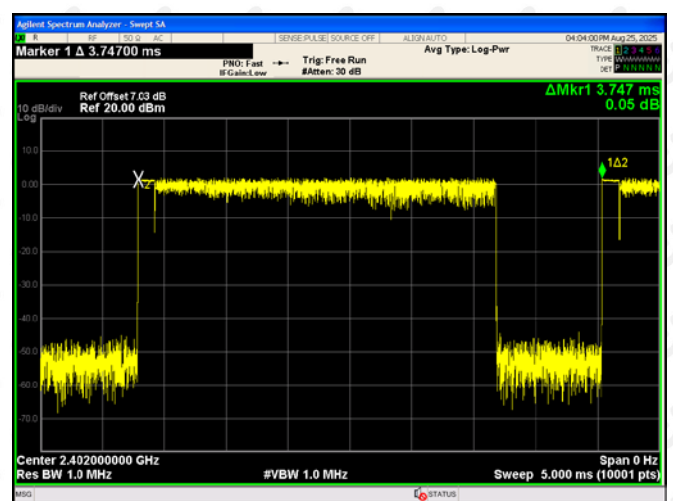
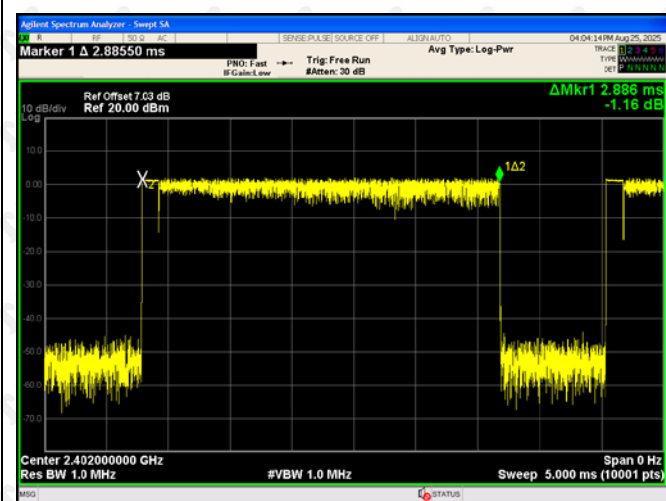
1DH1



2DH3



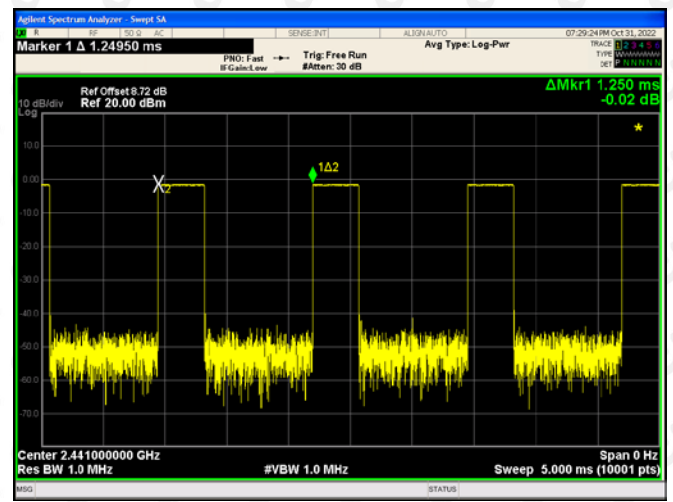
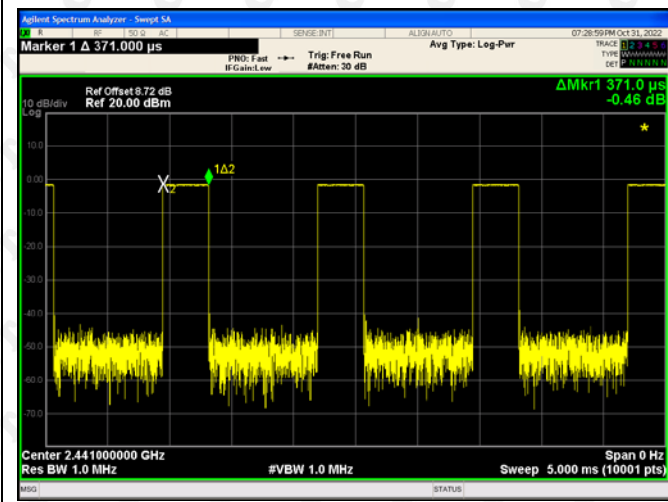
3DH5



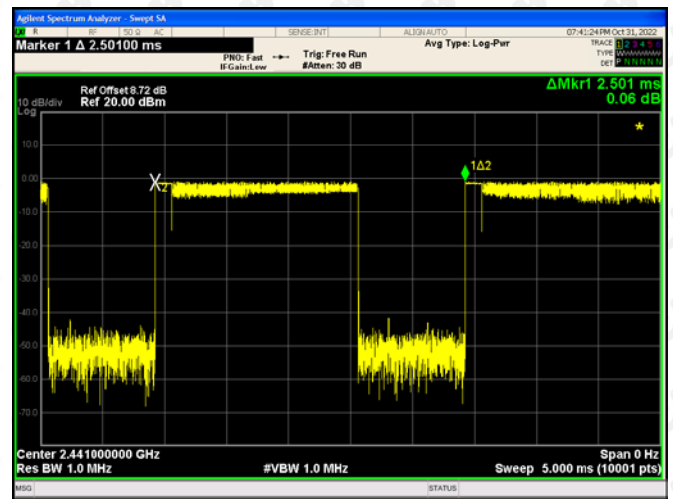
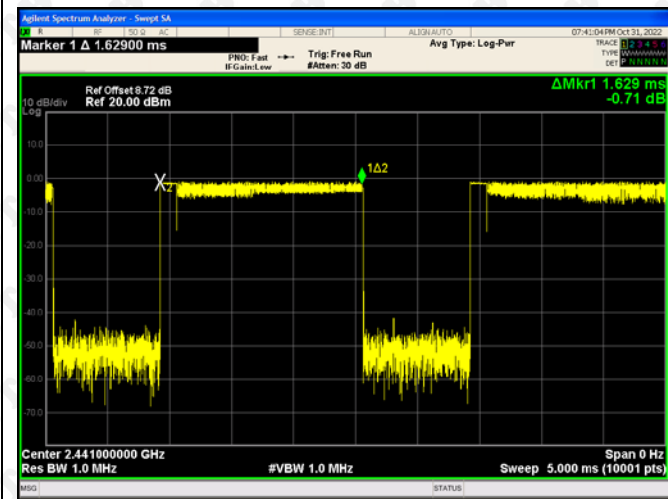
Test condition	Normal
Test modulation:	π /4-DPSK

Data Packet	90% Spread BW	On time	burst cycle	Duty cycle	Dwell Time	Limits
	(MHz)	(ms)	(ms)	(%)	(s)	(s)
DH1	71.2329	0.371	1.250	0.297	0.107	0.400
DH3	71.2329	1.629	2.501	0.651	0.235	0.400
DH5	71.2329	2.889	3.750	0.770	0.278	0.400

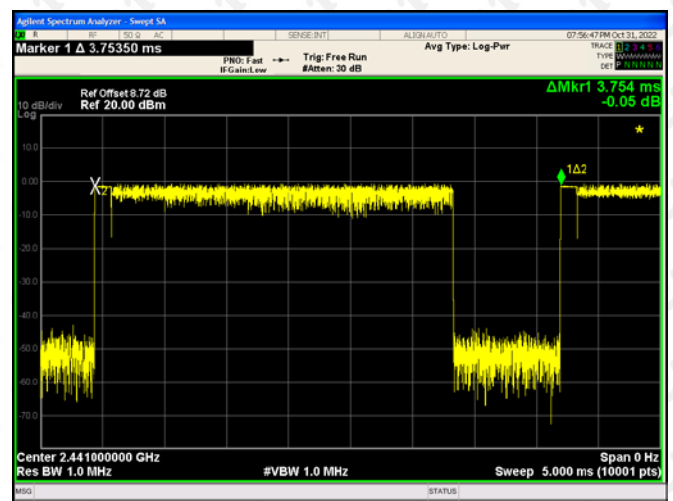
1DH1



2DH3



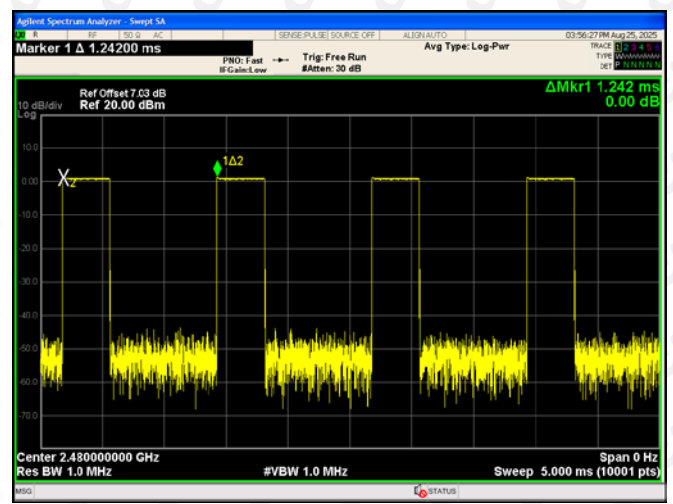
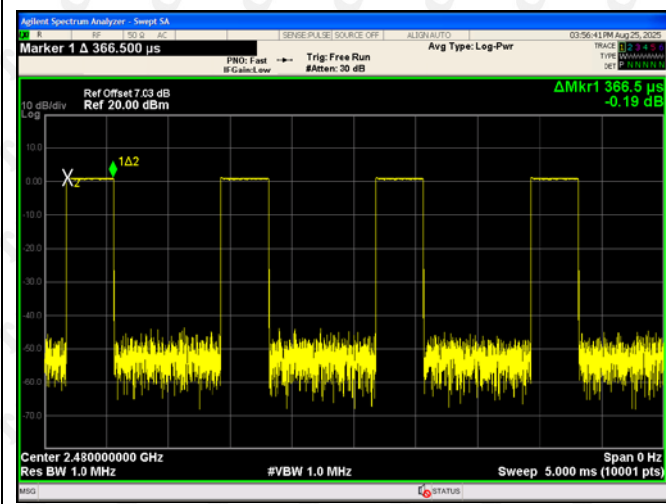
3DH5



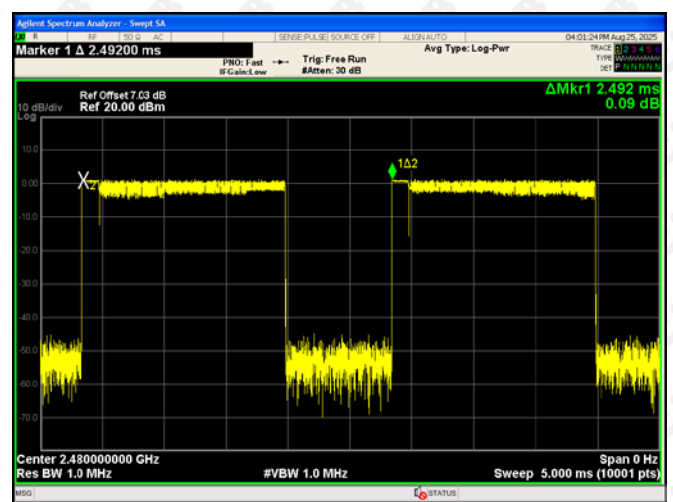
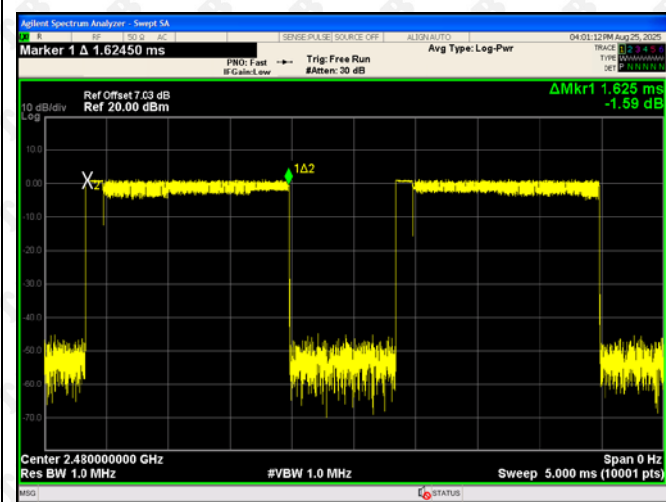
Test condition	Normal
Test modulation:	8DPSK

Data Packet	90% Spread BW	On time	burst cycle	Duty cycle	Dwell Time	Limits
	(MHz)	(ms)	(ms)	(%)	(s)	(s)
DH1	72.0036	0.367	1.242	0.295	0.108	0.400
DH3	72.0036	1.625	2.492	0.652	0.238	0.400
DH5	72.0036	2.883	3.752	0.768	0.280	0.400

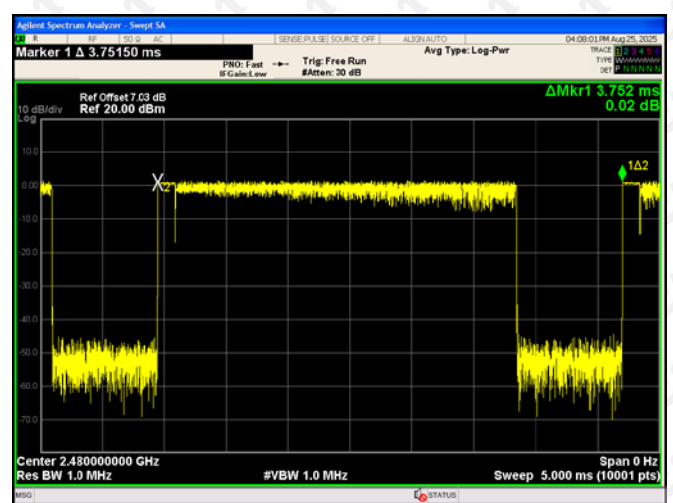
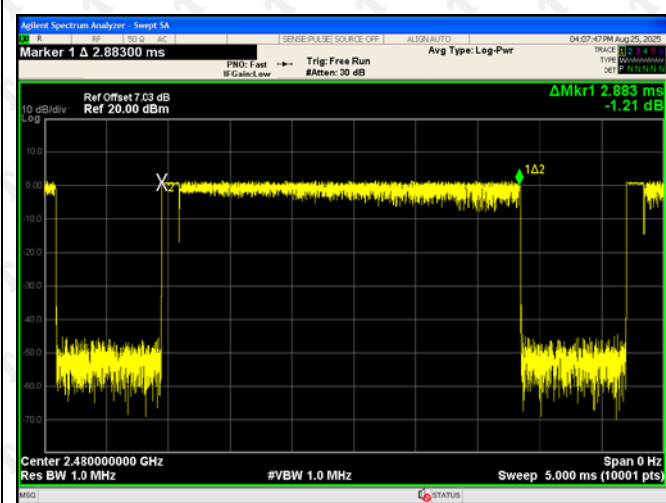
1DH1



2DH3



3DH5



3.7 Transmission Antenna Gain (EIRP Antenna Power) Measurement

3.7.1 Limit

Ltem	Limits
EIRP Power Density	$\leq 12.14\text{dBm/MHz}$ (OFDM.DS from 2400-2483.5MHz) $\leq 6.91\text{dBm/MHz}$ (FHSS from 2400-2483.5MHz) $\leq 12.14\text{dBm}$ (Other from 2400-2483.5MHz)
Remark: This test item will not be applied to Antenna gain is lower than 2.14dBi.	

3.7.2 Test Procedure

1. Set EUT ad measuring antenna at the same height and roughly facing aech other.
2. Move the measuring antenna height up and down within $\pm 50\text{cm}$ of EUT height and swing it to find the maximum output of the measuring antenna. The output level at the spectrum analyzer is read sa "E".
3. Remove the EUT from the turn table and put the replacing antenna facing to measuring antenna at same height. Set the standard signal generator (SSG) at same frequency and transmit on then receive the signal.
4. Swing the replacing antenna give a maximum receiving level.
5. Move the measuring antenna height up and down within $\pm 50\text{cm}$ of replacing antenna height and swing it to find the maximum receiving level.
6. Set SSG output power at Pt to give the equivalent output level of "E" or caluate Pt with SSG output which gives the nearest of "E" and difference ($\pm 1\text{dB}$).Record the Pt.
7. Calculate EIRP by the formula below $\text{EIRP} = G_t - L + P_t$
 Gt: gain of replacing antenna (dBi)
 L: feeder loss between SSG and replacing antenna
 Pt: Output power of the SSG
8. If the antenna for the EUT has circular polarization. Sum of V-field and H-field will be result if measuring antenna is linear polarization.

3.7.3Test results

Left:

Test voltage	Test modulation	Output power (dBm/MHz)	Gain	EIRP (dBm/MHz)	Result
			(dBi)		
Normal Voltage	GFSK	1.980	2.9	4.880	Pass
		1.910	2.9	4.810	
		1.840	2.9	4.740	

Right:

Test voltage	Test modulation	Output power (dBm/MHz)	Gain	EIRP (dBm/MHz)	Result
			(dBi)		
Normal Voltage	GFSK	3.259	0.9	4.159	Pass
		3.002	0.9	3.902	
		2.997	0.9	3.897	

3.8 Construction protection method

3.8.1 Requirement

The high-frequency section and modulation section of the radio equipment except for the antenna system shall not be capable of being opened easily

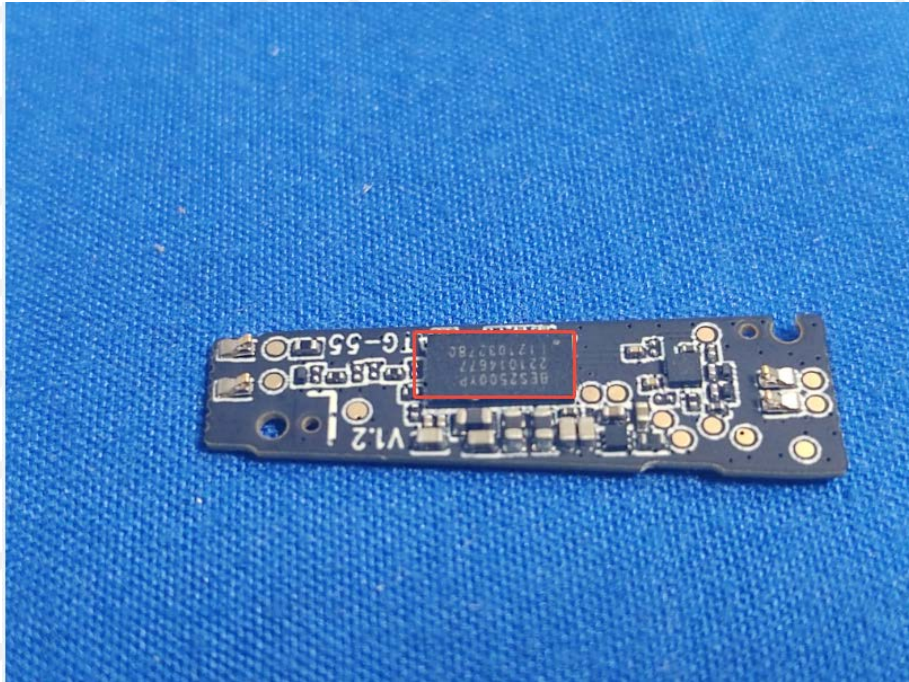
3.8.2 Confirmation method

☐ Sealed with special screws.
☐ Plastic chassis is being welded using ultrasonic waves.
☐ Chassis is glued using a special adhesive.
☐ Metal covers are spot-fused.
☐ Cover is specially interlocked.
☐ RF and Modulation components are covered with shielding case and this shielding case is soldered.
☐ Shield case is welded ant RF and modulations parts, and ID-ROM is welded using BGA Method.
☐ Shield case is welded ant RF and modulations parts, and ID-ROM is glued at its lead with a special adhesive.
☐ Shield case is welded ant RF and modulations parts, and ID-ROM is glued with a non-transparent laminating agent.
☒ Other: All RF and modulation section packet in one IC, and IC is welded using BGA Method, and RF module is welded on the main board, end-User can't open it easily.

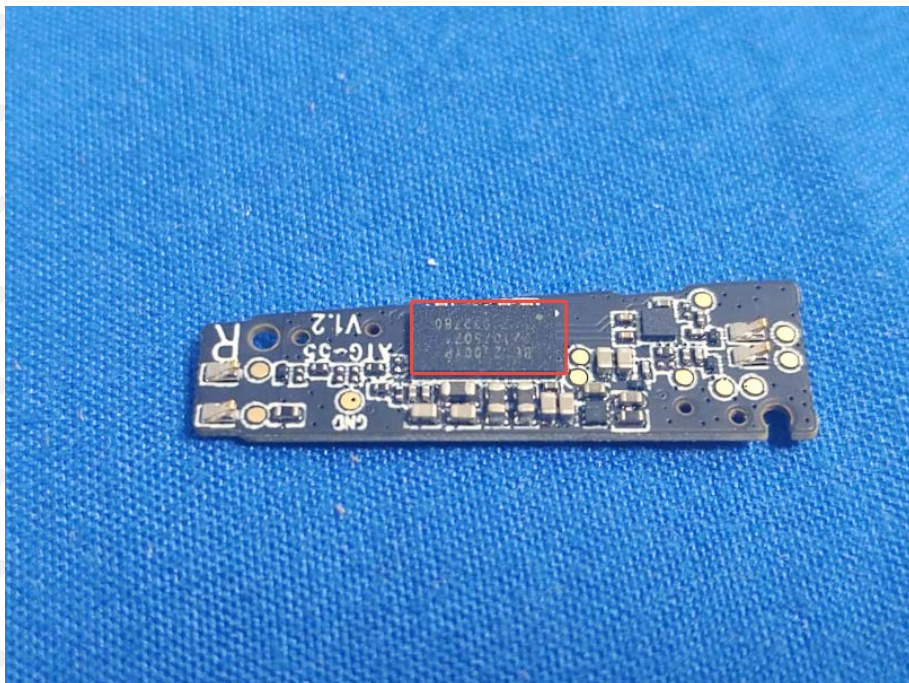
3.8.3 The photos of construction protection

The red circle is welding point.

Left ear:



Right ear:



3.9 Interference prevention function

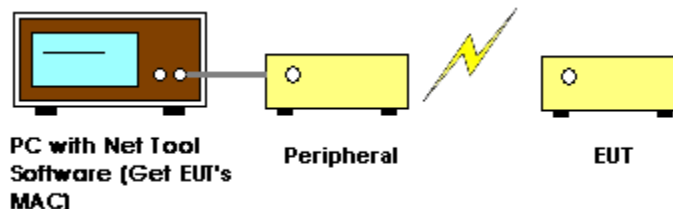
3.9.1 Limit

Item	Limits
Identification code	≥ 48 bits

3.9.2 Measuring ID code software

Item	Limits
MAC IP List	MAC Scan

3.9.3 Test setup



3.9.4 Test procedure

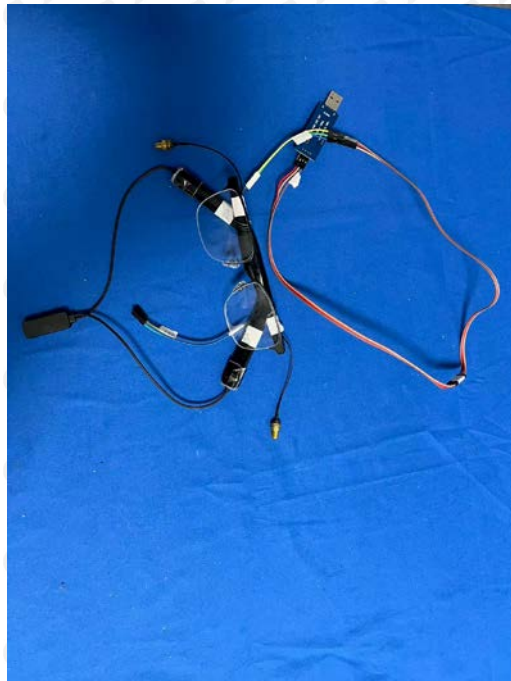
1. In the case that the EUT has the function of automatically transmitting the identification code:
 - a. Transmit the predetermined identification codes from EUT.
 - b. Check the transmitted identification codes with the demodulator.
2. In the case of receiving the identification code:
 - a. Transmit the predetermined identification codes from the counterpart.
 - b. Check if communication is normal.
 - c. Transmit the signals other than predetermined ID codes from the counterpart.
 - d. Check if the EUT stops the transmission, or if it displays that identification codes are different from the predetermined ones.

3.9.5 Test result

PASS

Bluetooth Device Address: 2222C88A0249

4. TEST SETUP PHOTOS OF EUT



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