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Report No.: TMTN2604000372NR

FCC ID: 2A8XN-CS629Q

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Rev.: 01

FCC 47 CFR PART 15 SUBPART C AND ANSI C63.10: 2020

TEST REPORT

For

Fully Automatic Direct Drive Turntable

Model: CS 629Q

Brand: Dual

Issued for

Dual GmbH

Hauptstrasse 1, 86925 Fuchstal, Germany

Issued by

Compliance Certification Services Inc.

Tainan Lab.

No. 168, Ln. 523, Sec. 3, Zhongzheng Rd.,

Rende Dist., Tainan City, 717017, Taiwan

Issued Date: August 07, 2026

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REVISION HISTORY

Rev.	Issue Date	Revisions	Effect Page	Revised By
00	August 04, 2026	Initial Issue	All Page	Gina Lin
01	August 07, 2026	See the following note rev.01	P8	Gina Lin

Note:

※ Rev.00 Issue Date: August 04, 2026

Original report.

※ Rev.01 Issue Date: August 07, 2026

Corrected registration no.

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1. TEST REPORT CERTIFICATION

Applicant : Dual GmbH
Hauptstrasse 1, 86925 Fuchstal, Germany
Manufacturer : Dual GmbH
Hauptstrasse 1, 86925 Fuchstal, Germany
Equipment Under Test : Fully Automatic Direct Drive Turntable
Model Number : CS 629Q
Brand Name : Dual
Date of Test : April 23, 2026 ~ May 09, 2026

APPLICABLE STANDARD	
STANDARD	TEST RESULT
FCC Part 15 Subpart C AND ANSI C63.10: 2020	Pass

Statements of Conformity
Determining compliance shall be based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

We hereby certify that:

The above equipment was tested by Compliance Certification Services Inc. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in **ANSI C63.10: 2020** and the energy emitted by the sample EUT tested as described in this report is in compliance with the requirements of FCC Rules Part 15.207, 15.209, 15.247.

The test results of this report relate only to the tested sample EUT identified in this report.

Approved by:



John Chen
Asst Supervisor

2. TEST RESULT SUMMARY

FCC Standard Section	Report Section	Test Item	Result
15.247(a)	9.1	6dB BANDWIDTH	Pass
15.247(b)	9.2	MAXIMUM PEAK OUTPUT POWER	Pass
N/A	9.3	DUTY CYCLE	N/A
15.247(e)	9.4	POWER SPECTRAL DENSITY	Pass
15.247(d)	9.5	CONDUCTED SPURIOUS EMISSION	Pass
15.209(a)	9.6	RADIATED EMISSIONS	Pass
15.207(a)	9.7	POWERLINE CONDUCTED EMISSIONS	Pass
15.203	10	ANTENNA REQUIREMENT	N/A

3. EUT DESCRIPTION

3.1 DESCRIPTION OF EUT & POWER

Product Name	Fully Automatic Direct Drive Turntable
Model Number	CS 629Q
Brand Name	Dual
Received Date	April 20, 2026
Reported Date	May 15, 2026
Operating Frequency Range	GFSK(5.0) Mode: 2402MHz~2480MHz
Transmit Power	GFSK(4.0) Mode: -4.07dBm (0.39mW) GFSK(5.0) Mode: -3.84Bm (0.41mW)
Channel Spacing	GFSK(5.0) Mode: 2 MHz
Channel Number	GFSK(5.0) Mode: 40 Channels
Transmit Data Rate	GFSK(4.0) Mode: 1 Mbps GFSK(5.0) Mode: 2 Mbps
Type of Modulation	GFSK
Antenna Type	Manufacturer: Sunitec Type: Layout Antenna Model: CS 629Q Gain: 2.2 dBi
Power Source	AC 100-240V
Firmware Version	V1.0
Software Version	V1.0

Power Adapter :

Manufacturer	Model No.	Power Input	Power Output
SHENZHEN FUJIA APPLIANCE CO.,LTD	FJ-SW1202000N	100-240V~, 50/60Hz, 0.6A Max	DC12V, 2.0A, 24W

REMARK:

1. The sample selected for test was engineering sample that approximated to production product and was provided by manufacturer.
2. This submittal(s) (test report) is intended for FCC ID: **2A8XN-CS629Q** filing to comply with Section 15.207, 15.209 and 15.247 of the FCC Part 15, Subpart C Rules.
3. For more details, please refer to the user manual.

4. DESCRIPTION OF TEST MODES

The EUT is a Fully Automatic Direct Drive Turntable.

The RF Chip is manufactured by Sunitec Enterprise Co., LTD.

The antenna peak gain 2.2 dBi (highest gain) were chosen for full testing.

GFSK(5.0) mode

The EUT had been tested under operating condition.

There are three channels have been tested as following:

Channel	Frequency (MHz)
Low	2402
Middle	2442
High	2480

GFSK(5.0) mode: 1Mbps long data rates (worst case) were chosen for full testing.

5. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.10 and FCC CFR 47 15.207, 15.209 and 15.247 and KdB 558074.

6. FACILITIES AND ACCREDITATIONS

6.1 FACILITIES

All measurement facilities used to collect the measurement data are located at

- ☐ No.8, Jiucengling, Xinhua Dist., Tainan City 712, Taiwan (R.O.C.)
- ☒ No. 168, Ln. 523, Sec. 3, Zhongzheng Rd., Rende Dist., Tainan City 717, Taiwan

The sites are constructed in conformance with the requirements of ANSI C63.7:1992, ANSI C63.10: 2020 and CISPR Publication 22.

6.2 EQUIPMENT

Radiated emissions are measured with one or more of the following types of linearly polarized antennas: tuned dipole, biconical, log periodic, bi-log, and/or ridged waveguide, horn. Spectrum analyzers with preselectors and quasi-peak detectors are used to perform radiated measurements.

Conducted emissions are measured with Line Impedance Stabilization Networks and EMI Test Receivers.

Calibrated wideband preamplifiers, coaxial cables, and coaxial attenuators are also used for making measurements.

All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

6.3 LABORATORY ACCREDITATIONS LISTINGS

The test facilities used to perform radiated and conducted emissions tests are accredited by Taiwan Accreditation Foundation for the specific scope of accreditation under Lab Code: 1109 to perform Electromagnetic Interference tests according to FCC PART 15 AND CISPR 22 requirements. No part of this report may be used to claim or imply product endorsement by TAF or any agency of the Government. In addition, the test facilities are listed with Federal Communications Commission (registration no: TW0035).

6.4 TABLE OF ACCREDITATIONS AND LISTINGS

Our laboratories are accredited and approved by the following accreditation body according to ISO/IEC 17025.

Taiwan

TAF

The measuring facility of laboratories has been authorized or registered by the following approval agencies.

Canada

Industry Canada (ISED#: 2324H)

Germany

TUV NORD

Taiwan

BSMI

USA

FCC

6.5 MEASUREMENT EQUIPMENT USED

For §9.7

Chamber 1166 Room (Radiation Test)					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Active Loop Antenna	ETS-LINDREN	6502	8905-2356	09/01/2025	08/31/2026
Attenuator	MCL	BW-S15W5	0535	01/13/2026	01/12/2027
Notch Filter	MICRO-TRONICS	BRM50702-01	018	01/13/2026	01/12/2027
Bilog Antenna with 6dB Attenuator	SUNOL SCIENCES & EMCI	JB1 & N-6-06	A021306 & AT-N0682	10/08/2025	10/07/2026
Cable	EMCI	EM102-KMKM	CB1166-01	01/13/2026	01/12/2027
Double Ridged Guide Horn Antenna	ETS.LINDGREN	3117	00078733	04/24/2026	04/23/2027
EMI Test Receiver	R&S	ESCI 7	100856	06/23/2025	06/22/2026
Signal Analyzer	R & S	FSV	1307.9002K30-101 405-TM	07/07/2025	07/06/2026
Double Ridged Guide Horn Antenna	ETS-LINDGREN	3116	00078900	03/26/2026	03/25/2027
Pre-Amplifier	EMEC	EM01G40GA	060919/S02-13041 7-307	04/29/2026	04/28/2027
Software	Excel(ccs-o6-2020 v1.1) , e3(v6.101222)				

For §9.1~9.6

Chamber 1166 Room (Conducted Test)					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Signal Analyzer	R & S	FSV	1307.9002K30-101 405-TM	07/07/2025	07/06/2026
SMA Cable+10dB Attenuator	CCS	SMA+10dB ATT	SMA/10dB	01/13/2026	01/12/2027
Software	Excel(ccs-o6-2020 v1.1)				

For §9.8

Conducted Emission room #1					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
BNC Coaxial Cable	CCS	BNC50	11	01/13/2026	01/12/2027
EMI Test Receiver	R&S	ESCI	101203	10/20/2025	10/19/2026
LISN	R&S	ENV216	101495	07/09/2025	07/08/2026
LISN	R&S	NNLK 8130	8130124	01/17/2026	01/16/2027
Pulse Limiter	SCHWARZBECK	VTSD 9561-F	797	01/13/2026	01/12/2027
Test S/W	e3(v6.101222)				

7. CALIBRATION AND UNCERTAINTY

7.1 MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations, and is traceable to recognized national standards.

7.2 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

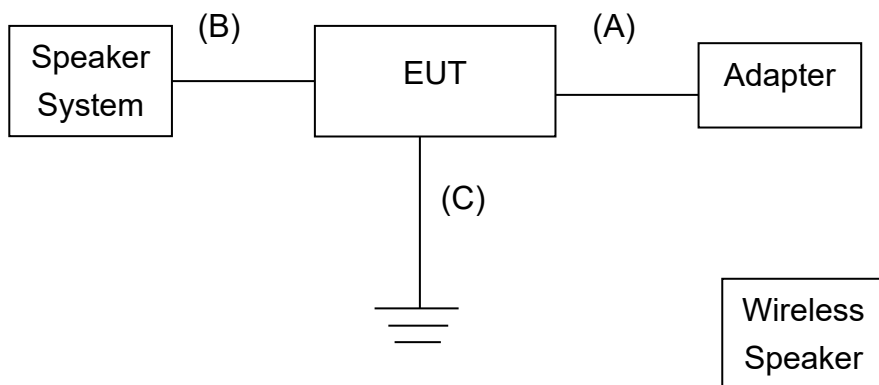
Measurement	Uncertainty
AC Powerline Conducted Emission	$\pm 2.21\text{dB}$
Channel Bandwidth	$\pm 2.87\%$
RF output power (Spectrum)	$\pm 2.88\text{dB}$
RF Output power (Power Meter & Power sensor)	$\pm 0.243\text{dB}$
Power Density	$\pm 2.87\text{dB}$
Conducted Badnedge	$\pm 2.87\text{dB}$
Conducted Spurious Emission	$\pm 2.88\text{dB}$
Channel Separation	$\pm 2.87\text{dB}$
In-Band Emission (Channel Mask)	$\pm 2.88\text{dB}$
Frequency Stability	$\pm 0.03\text{ ppm}$

Uncertainty figures are valid to a confidence level of 95%, $k=2$

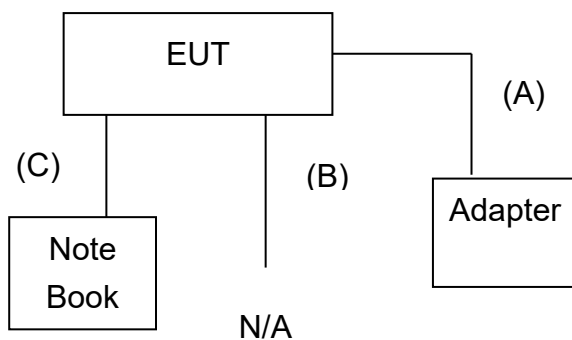
8. SETUP OF EQUIPMENT UNDER TEST

8.1 SETUP CONFIGURATION OF EUT

EMI



RF



8.2 SUPPORT EQUIPMENT

For EMI test

No.	Product	Manufacturer	Model No.	Certify No.	Signal cable
1	Speaker System	infotec	SP-102	DOC	N/A
2	Wireless Speaker	PHILIPS	TAS1505	DOC	N/A

No.	Signal cable description	
A	DC Power	Unshielded, 1.5m 1 pcs with 1 core.
B	Audio	Shielded, 1.0m 1 pcs.
C	Ground	Unshielded, 1.0m 1 pcs.

For RF test

No.	Product	Manufacturer	Model No.	Certify No.	Power cable
1	Note Book	ASUS	X515J	DOC	N/A

No.	Signal cable description	
A	Power	Unshielded, 1.5m 1 pcs with 1 core.
B	Audio	Shielded, 1.0m 1 pcs.
C	USB	Shielded, 3.0m 1 pcs with 1 core.

Note:

- 1) All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- 2) Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.
- 3) shd. = shielded; unshd. = unshielded

8.3 EUT OPERATING CONDITION

RF Setup

1. Set up all computers like the setup diagram.
2. The “Blue Test 3 V3.3.10.1199” software was used for testing
3. Choose Transport “DEBUG” and Device “USB DBG(100)”

BLE 1M(2M)

TX Mode:

BLE TEST TX
Channel > 0,20,39 (0-39)
Length > 37
Bit pattern > Pseudo-rdm 9
PHY > 1M (2M)

RX Mode:

BLE TEST RX
Channel > 0 (0-39)
PHY > 1M (2M)

4. All of the function are under run.
5. Start test.

9. APPLICABLE LIMITS AND TEST RESULTS

9.1 6dB BANDWIDTH

LIMIT

§ 15.207(a) (2) For direct sequence systems, the minimum 6dB bandwidth shall be at least 500kHz

TEST SETUP



TEST PROCEDURE

- a) Set RBW = 100 kHz.
- b) Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.
- g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

TEST RESULTS

No non-compliance noted.

Model Name	CS 629Q	Test By	Ted Huang
Temp & Humidity	25.5°C, 53%	Test Date	2026/05/09

GFSK(4.0) mode

Channel	Channel Frequency (MHz)	6dB Bandwidth (kHz)	Minimum Limit (kHz)	Pass / Fail
Low	2402	722.30	500	PASS
Middle	2442	722.30	500	PASS
High	2480	710.30	500	PASS

NOTE :

1. At final test to get the worst-case emission at 1Mbps long.
2. The cable assembly insertion loss of 11.07dB was entered as an offset in the spectrum analyzer to allow for direct reading of power.

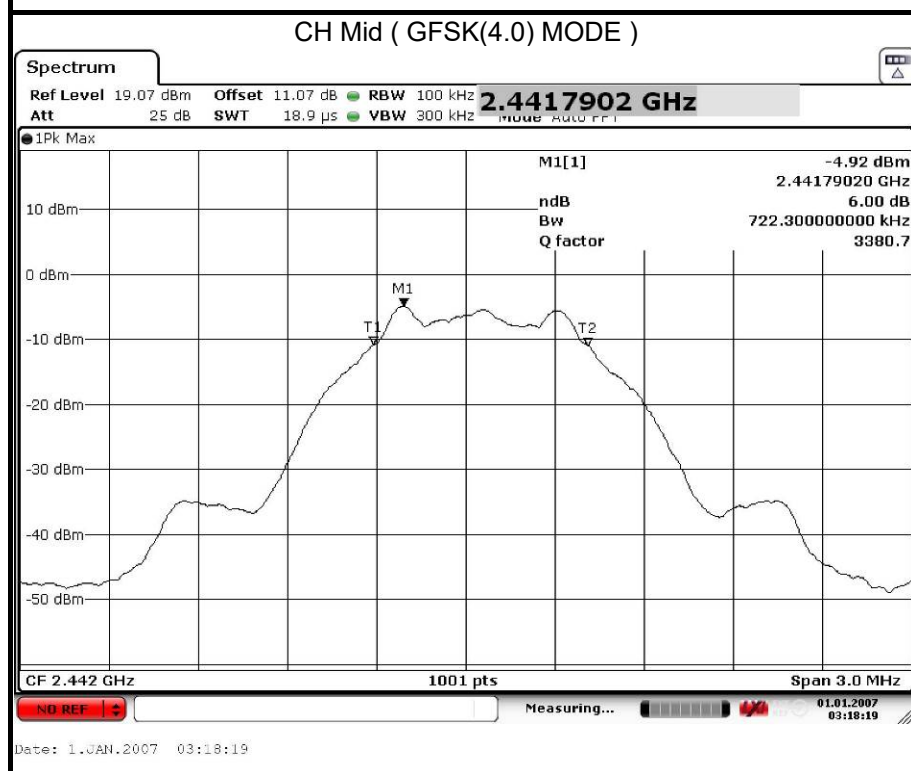
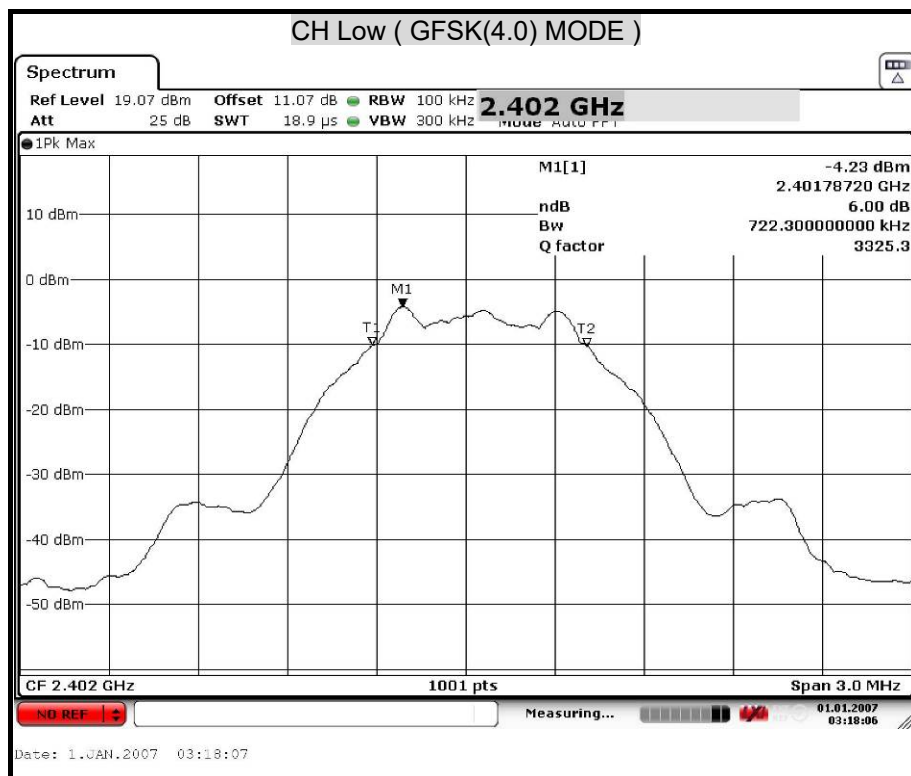
GFSK(5.0) mode

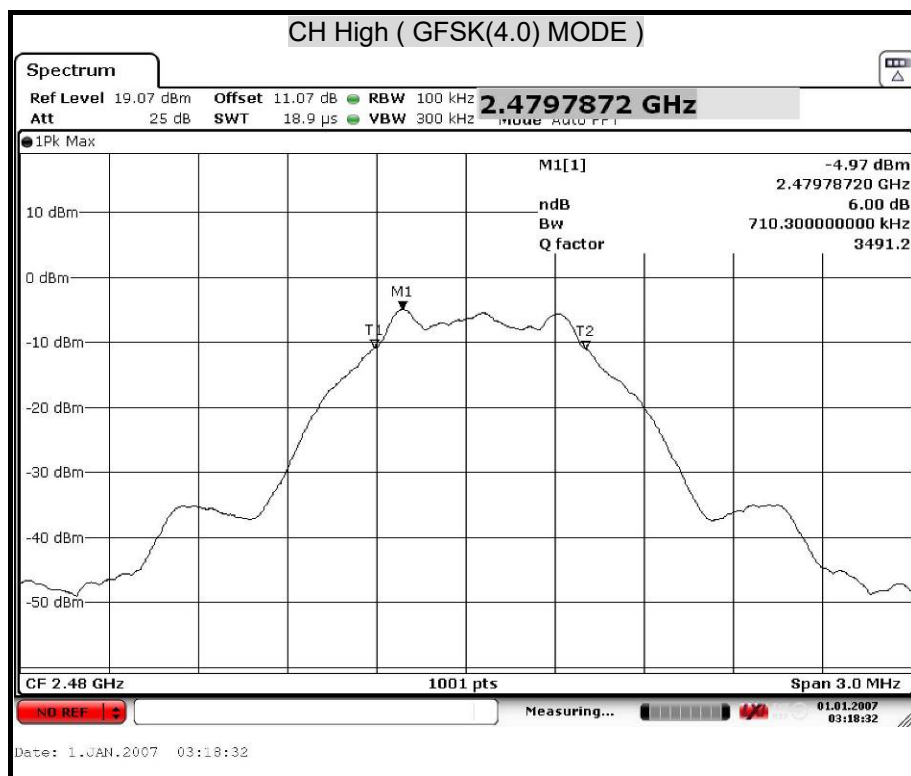
Channel	Channel Frequency (MHz)	6dB Bandwidth (kHz)	Minimum Limit (kHz)	Pass / Fail
Low	2402	769.20	500	PASS
Middle	2442	774.20	500	PASS
High	2480	774.20	500	PASS

NOTE :

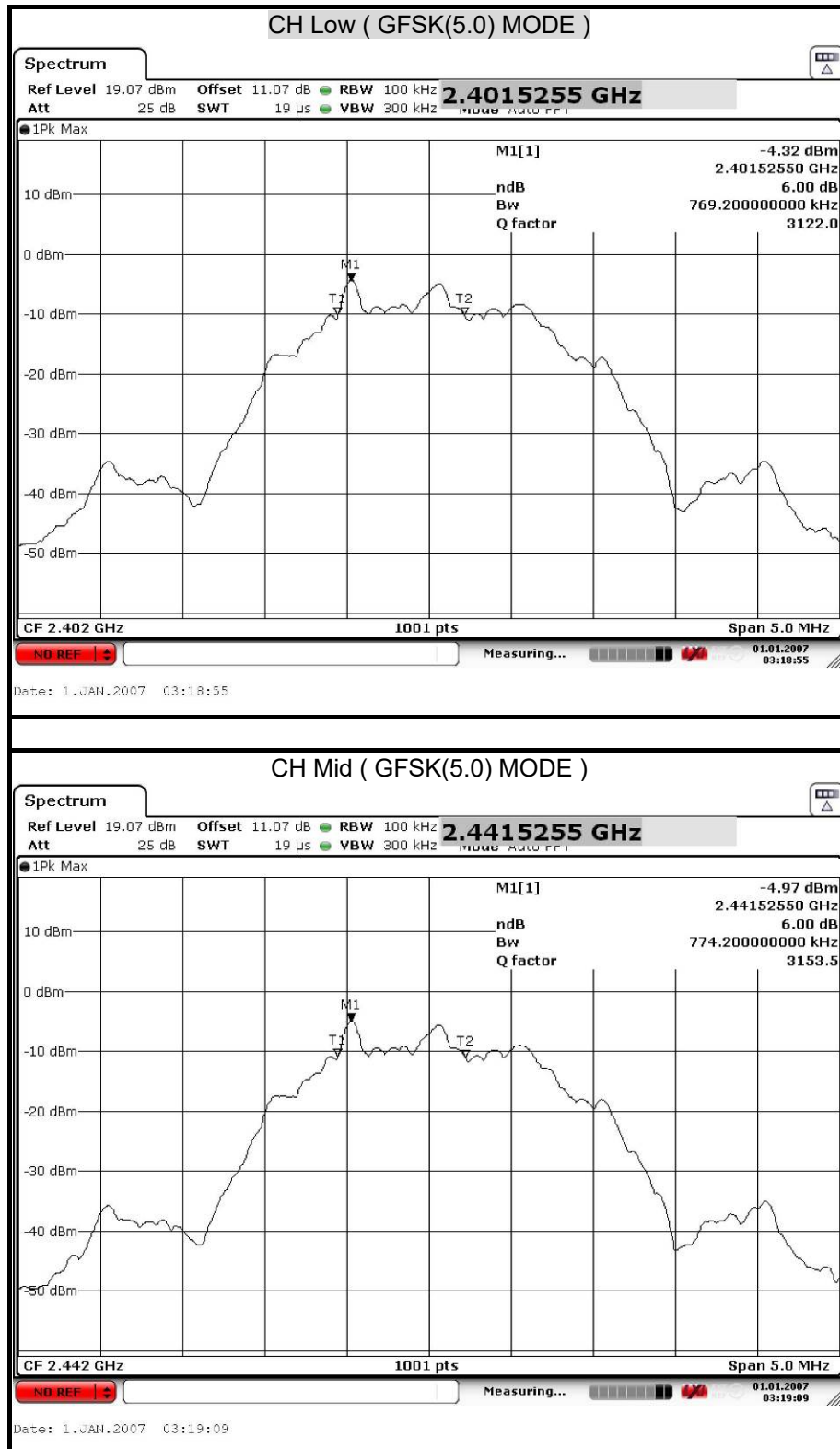
1. At final test to get the worst-case emission at 2Mbps long.
2. The cable assembly insertion loss of 11.07dB was entered as an offset in the spectrum analyzer to allow for direct reading of power.

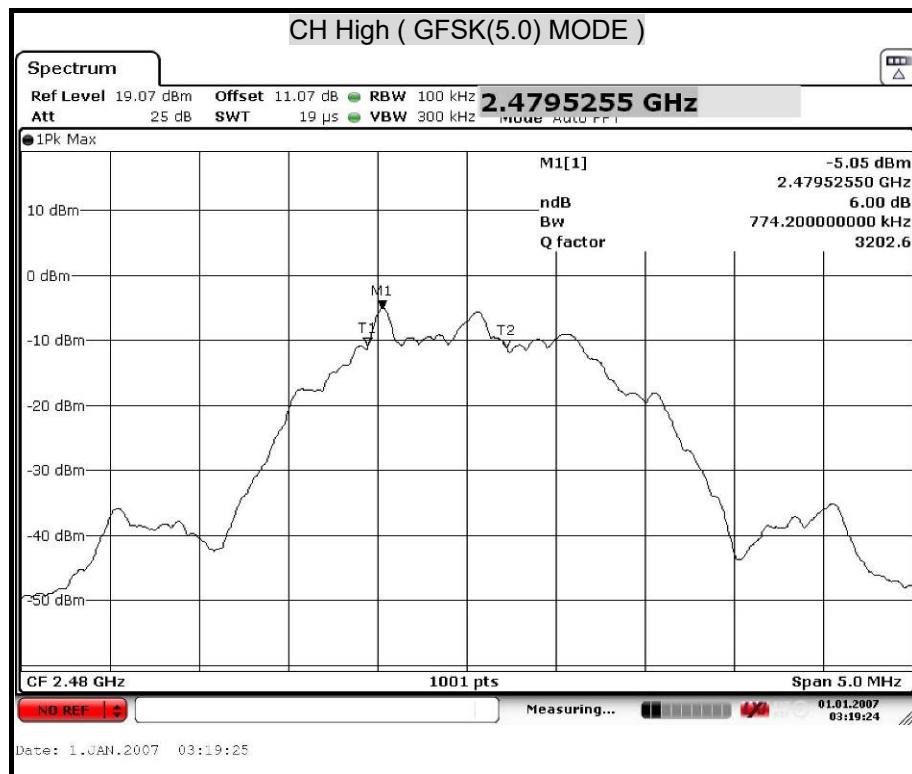
6dB BANDWIDTH (GFSK(4.0) MODE)





6dB BANDWIDTH (GFSK(5.0) MODE)





9.2 MAXIMUM PEAK OUTPUT POWER

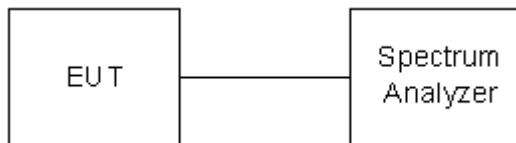
LIMIT

§ 15.247(b) The maximum peak output power of the intentional radiator shall not exceed the following :

§ 15.247(b) (3) For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands : 1 watt.

§ 15.247(b) (4) Except as shown in paragraphs (c) of this section , if transmitting antennas of directional gain greater than 6 dBi are used the peak output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1) or (b)(2), and (b)(3) of this section , as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

TEST SETUP



TEST PROCEDURE

The tests were performed in accordance with KDB 558074 9.1.1

9.2.1 Measurement Procedure PK2:

Peak Power set:

1. Set the RBW = $\geq$ DTS bandwidth.
2. Set the VBW $\geq$ $[3 \times \text{RBW}]$.
3. Set the span $\geq$ $[1.5 \times \text{DTS bandwidth}]$.
4. Detector = peak.
5. Sweep time = auto couple.
6. Trace mode = max hold.
7. Allow trace to fully stabilize.
8. Use the instrument's band/channel power measurement function with the band limits set equal to the DTS bandwidth edges (for some instruments, this may require a manual override to select the peak detector). If the instrument does not have a band power function, then sum the spectrum levels (in linear power units) at intervals equal to the RBW extending across the DTS channel bandwidth.

Average Power

Connect the EUT to power meter, set the center frequency of the power meter to the channel center frequency.

Average power set:

1. Measure the duty cycle D of the transmitter output signal
2. Set span to at least 1.5 times the OBW.
3. Set the RBW = $\geq$ DTS bandwidth
4. Set VBW $\geq$ $[3 \times \text{RBW}]$.
5. Number of points in sweep $\geq$ $[2 \times \text{span} / \text{RBW}]$. (This gives bin-to-bin spacing $\leq \text{RBW} / 2$, so that narrowband signals are not lost between frequency bins.)
6. Manually set sweep time $\geq$ $[10 \times (\text{number of points in sweep}) \times (\text{total ON/OFF period of the transmitted signal})]$.
7. Set detector = RMS (power averaging).
8. Perform a single sweep.
9. Compute power by integrating the spectrum across the OBW of the signal using the instrument's band power measurement function with band limits set equal to the OBW band edges. If the instrument does not have a band power function, then sum the spectrum levels (in power units) at intervals equal to the RBW extending across the entire OBW.
10. Add $[10 \log (1 / D)]$, where D is the duty cycle, to the measured power to compute the average power during the actual transmission times.

TEST RESULTS

No non-compliance noted.

Model Name	CS 629Q	Test By	Ted Huang
Temp & Humidity	25.5°C, 53%	Test Date	2026/05/09

GFSK(4.0) mode

Channel	Channel Frequency (MHz)	Peak Power (dBm)	Peak Power Limit (dBm)	Pass / Fail
Low	2402	-4.07	30.00	PASS
Middle	2442	-4.70	30.00	PASS
High	2480	-4.79	30.00	PASS

NOTE : 1. At final test to get the worst-case emission at 1Mbps long.
2. The cable assembly insertion loss of 11.07dB was entered as an offset in the spectrum analyzer to allow for direct reading of power.

GFSK(5.0) mode

Channel	Channel Frequency (MHz)	Peak Power (dBm)	Peak Power Limit (dBm)	Pass / Fail
Low	2402	-3.84	30.00	PASS
Middle	2442	-4.75	30.00	PASS
High	2480	-4.79	30.00	PASS

NOTE : 1. At final test to get the worst-case emission at 2Mbps long.
2. The cable assembly insertion loss of 11.07dB was entered as an offset in the spectrum analyzer to allow for direct reading of power.

Average Power Data

Model Name	CS 629Q	Test By	Ted Huang
Temp & Humidity	25.5°C, 53%	Test Date	2026/05/09

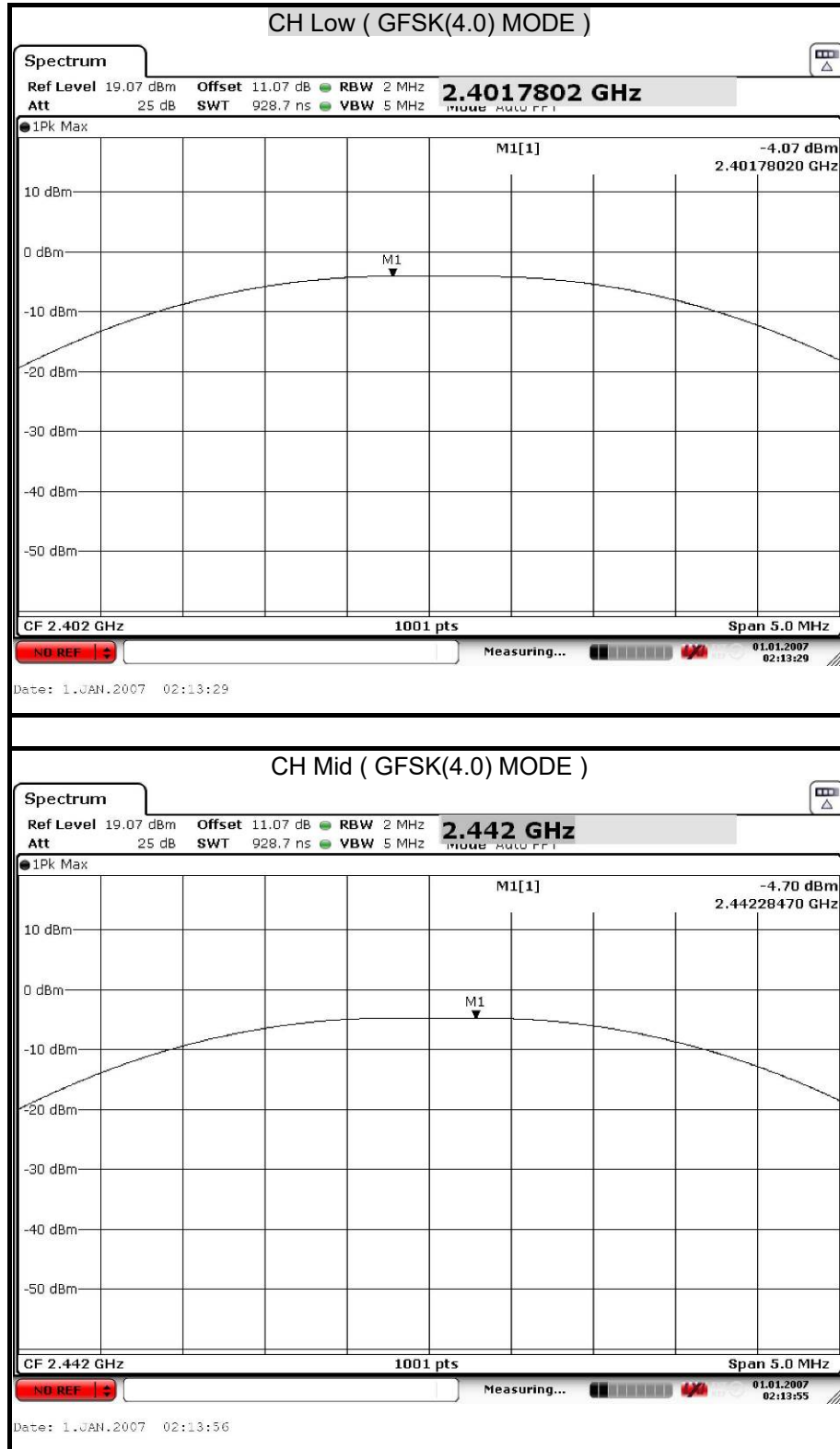
GFSK(4.0) mode

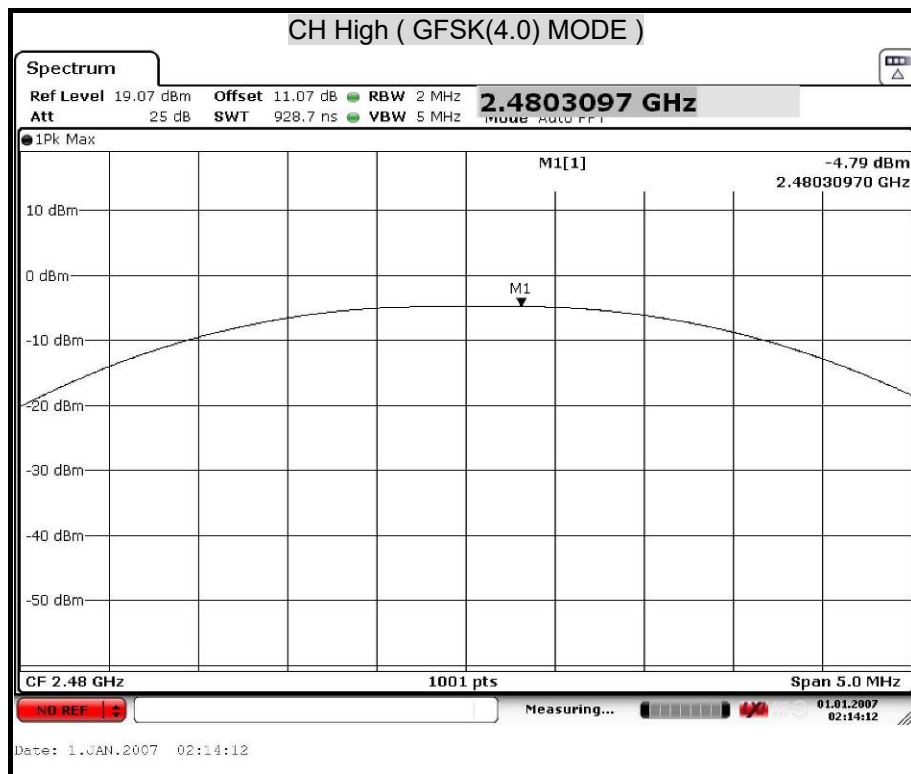
Channel	Channel Frequency (MHz)	Measure Power (dBm)	10 log (1 / D)	Average Power (dBm)
Low	2402	-6.25	2.048	-4.20
Middle	2442	-6.98	2.048	-4.93
High	2480	-8.30	2.048	-6.25

GFSK(5.0) mode

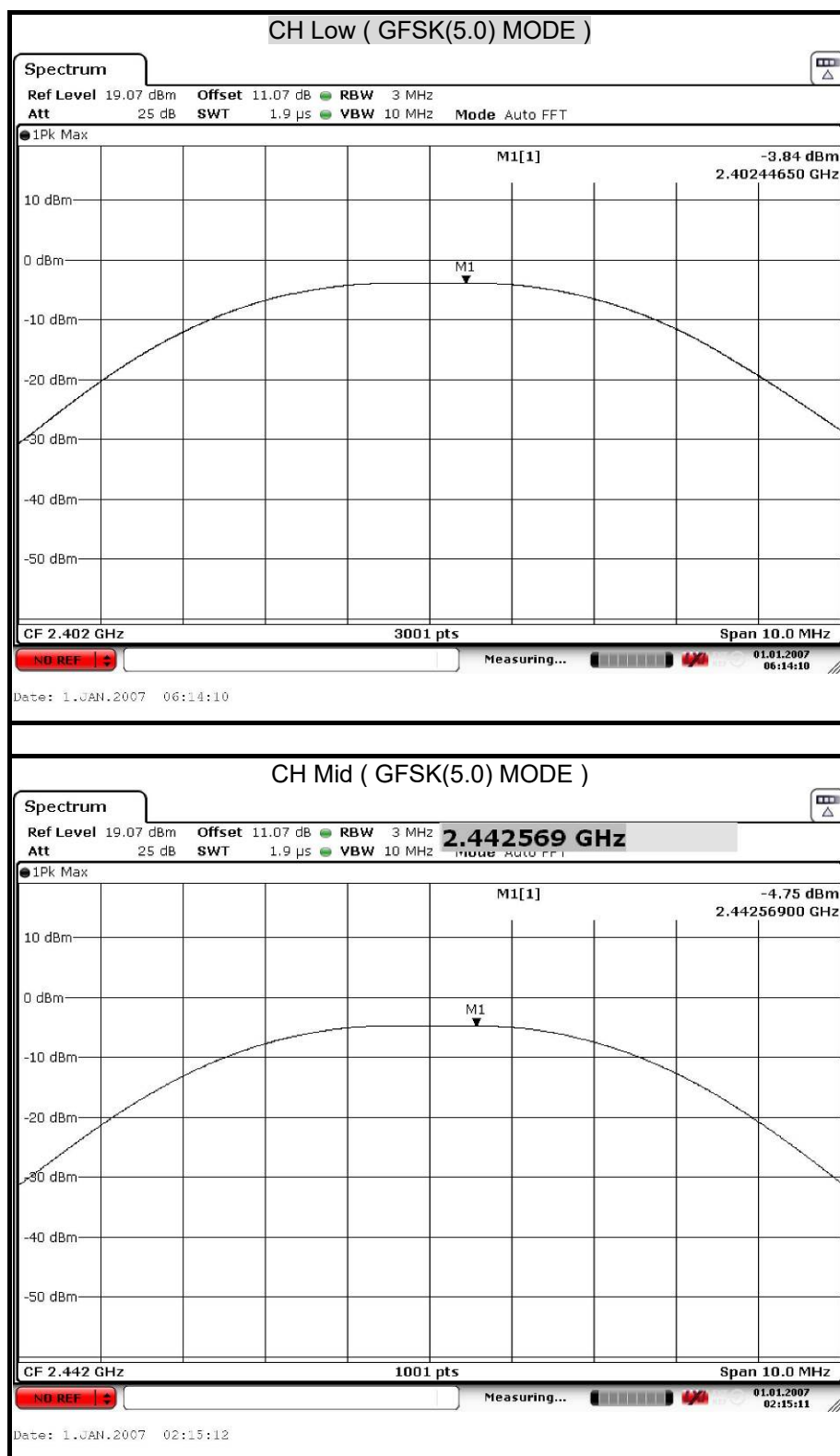
Channel	Channel Frequency (MHz)	Measure Power (dBm)	10 log (1 / D)	Average Power (dBm)
Low	2402	-9.06	4.841	-4.22
Middle	2442	-9.51	4.841	-4.67
High	2480	-10.48	4.841	-5.64

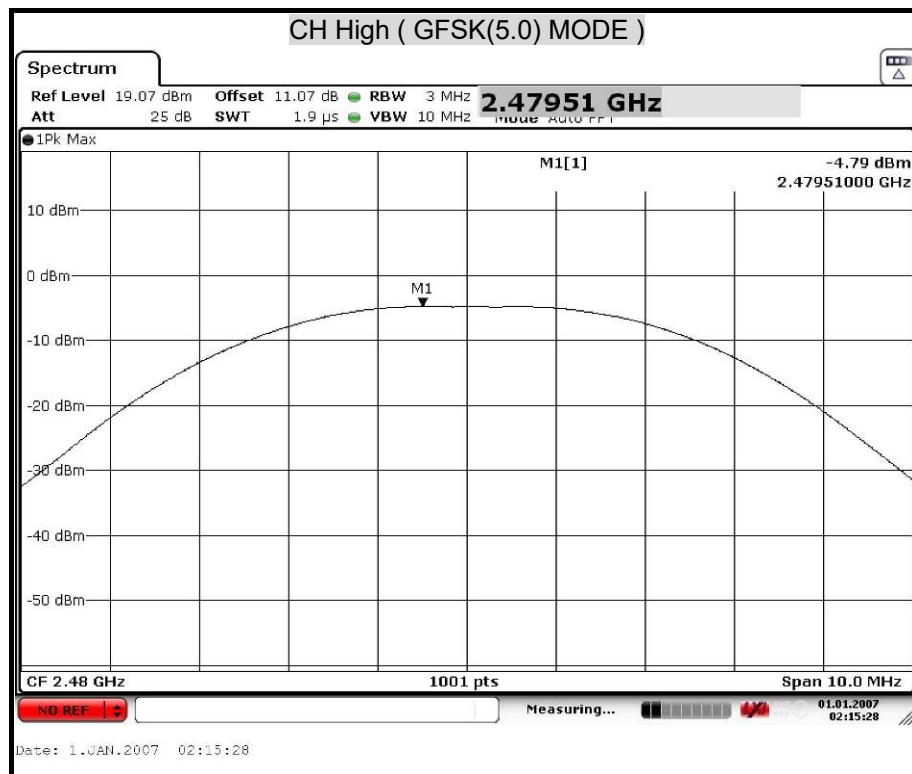
MAXIMUM PEAK OUTPUT POWER (GFSK(4.0) MODE)



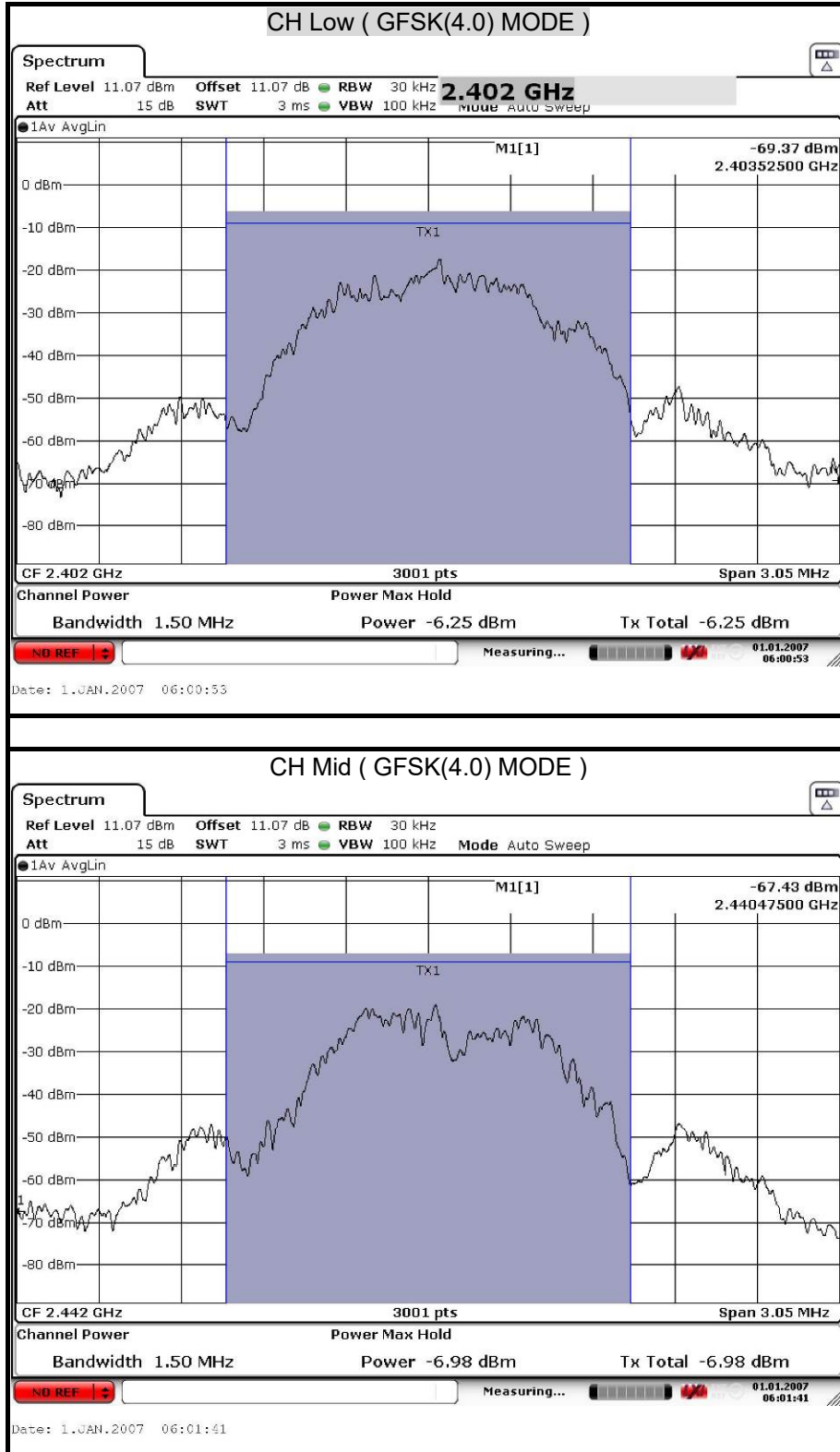


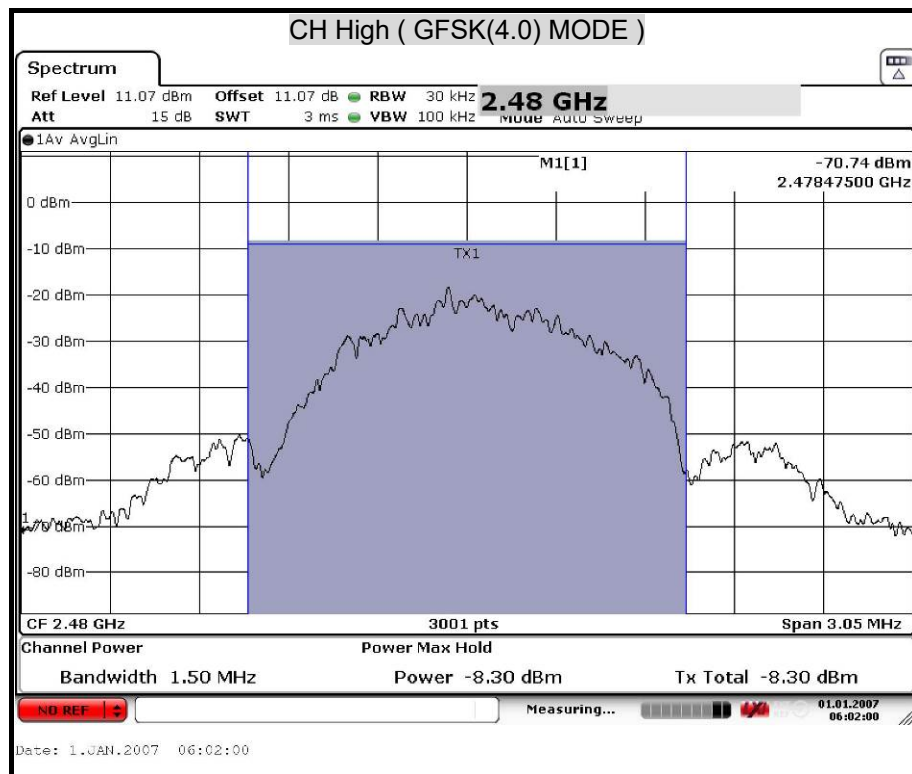
MAXIMUM PEAK OUTPUT POWER (GFSK(5.0) MODE)



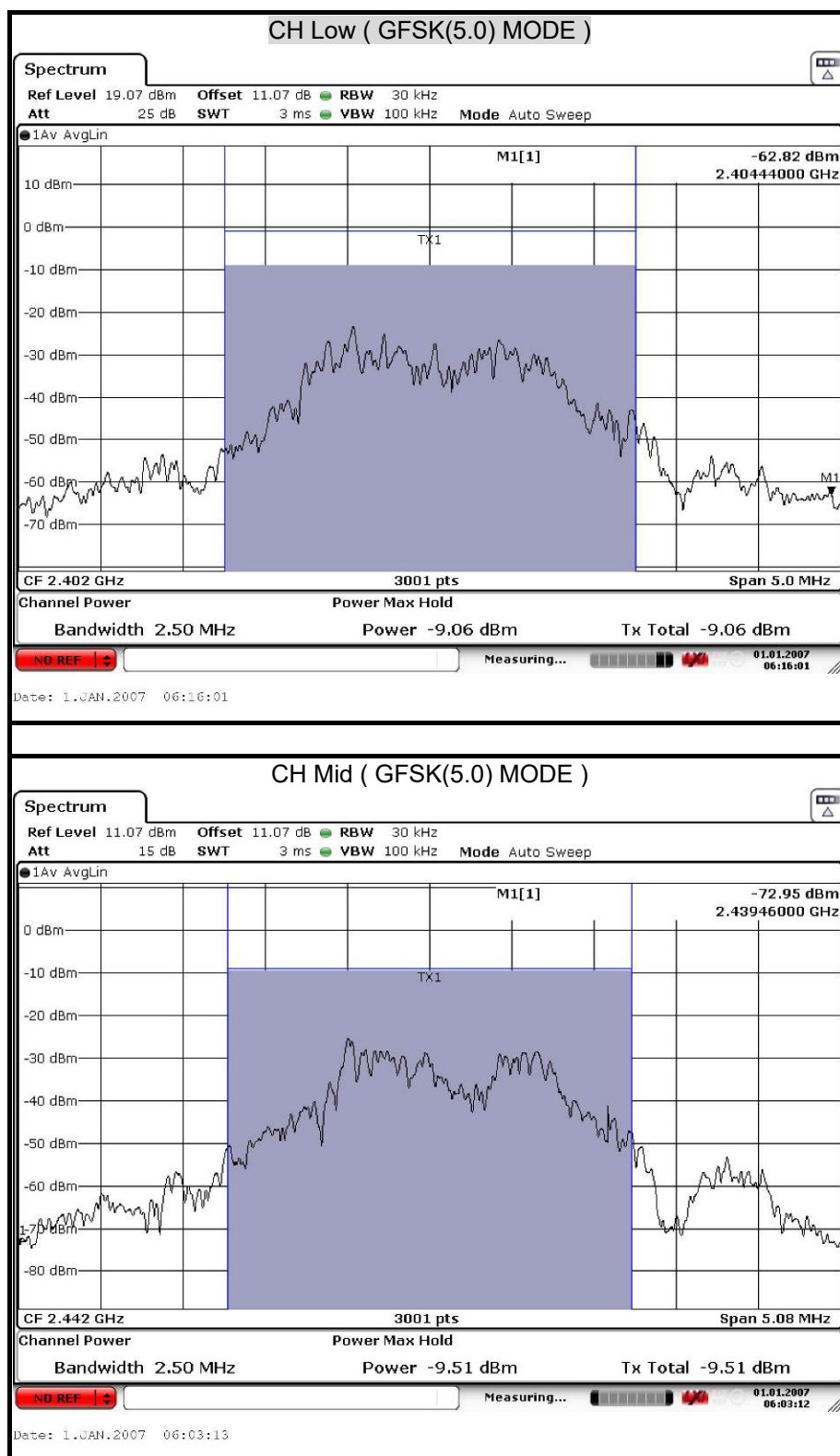


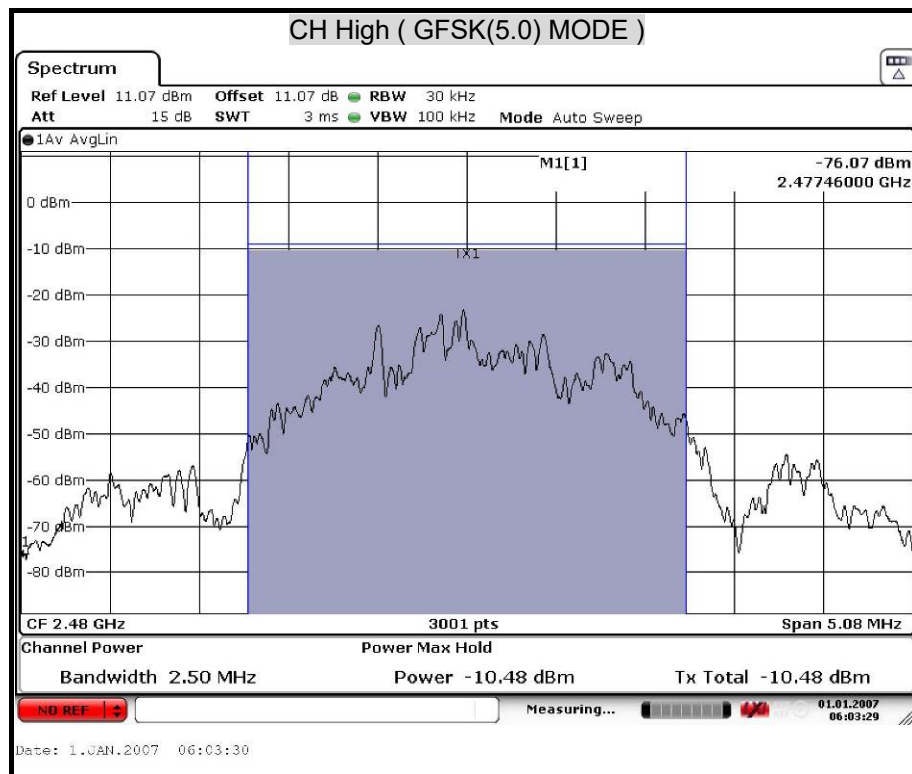
MAXIMUM Average OUTPUT POWER (GFSK(4.0) MODE)





MAXIMUM Average OUTPUT POWER (GFSK(5.0) MODE)





9.3 DUTY CYCLE

LIMIT

Nil (No dedicated limit specified in the Rules)

TEST SETUP



TEST PROCEDURE

1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. The zero-span mode on a spectrum analyzer or EMI receiver if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the on and off times of the transmitted signal. Set the center frequency of the instrument to the center frequency of the transmission. Set $RBW \geq OBW$ if possible; otherwise, set RBW to the largest available value. Set $VBW \geq RBW$. Set detector = peak or average. The zero-span measurement method shall not be used unless both RBW and VBW are $> 50/T$ and the number of sweep points across duration T exceeds 100. (For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring duty cycle shall not be used if $T \leq 16.7$ microseconds.)

TEST RESULTS

No non-compliance noted.

Model Name	CS 629Q	Test By	Ted Huang
Temp & Humidity	25.5°C, 53%	Test Date	2026/05/09

GFSK(4.0) Mode

	us	Times	Ton(us)	Total Ton time(ms)
Ton1	390.000	1	390	
Ton2		0	0	
Ton3			0	0.390
Tp				0.625

Ton	0.390
Tp(Ton+Toff)	0.625
Duty Cycle	0.624
Duty Factor	2.048

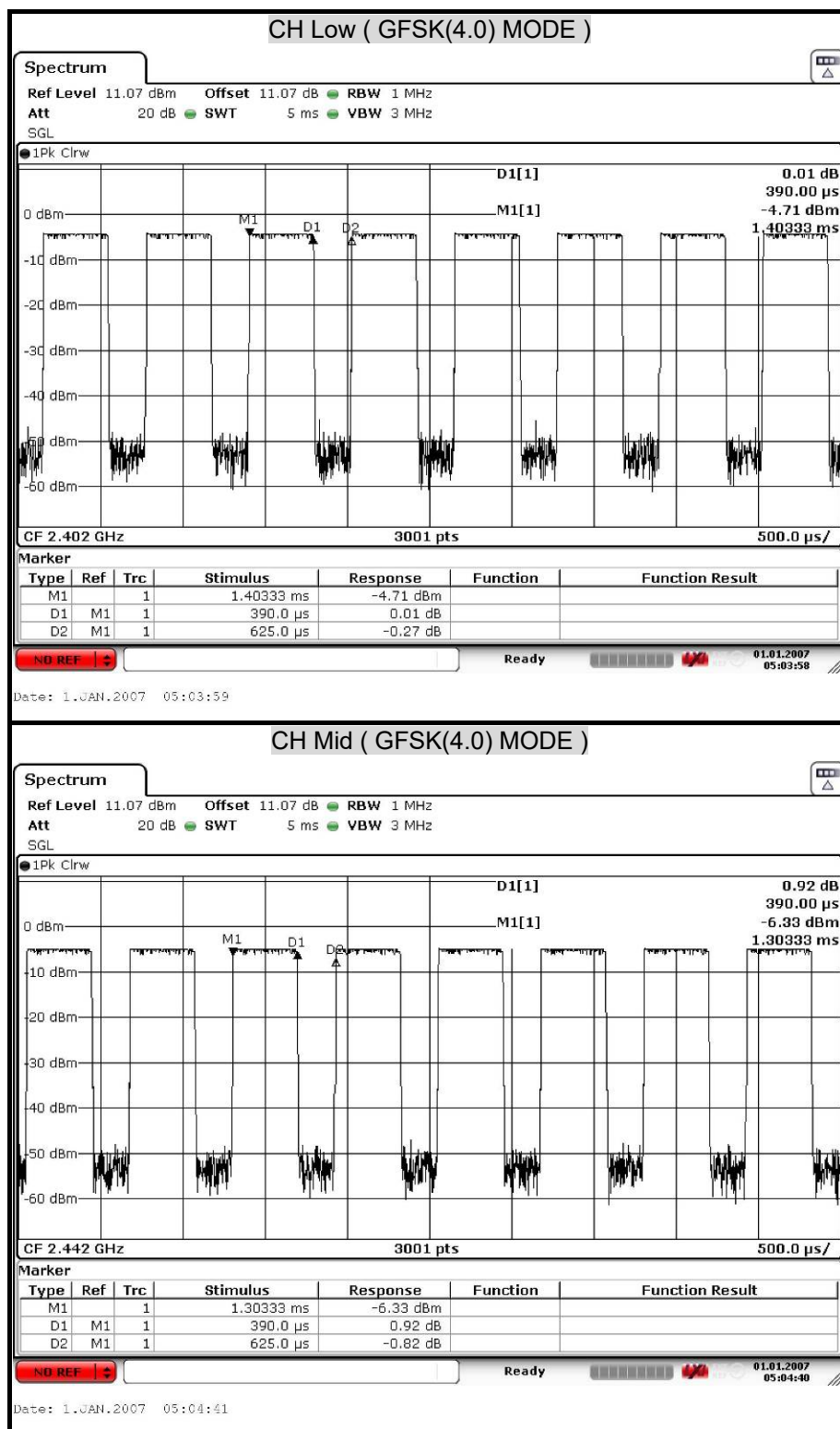
GFSK(5.0) Mode

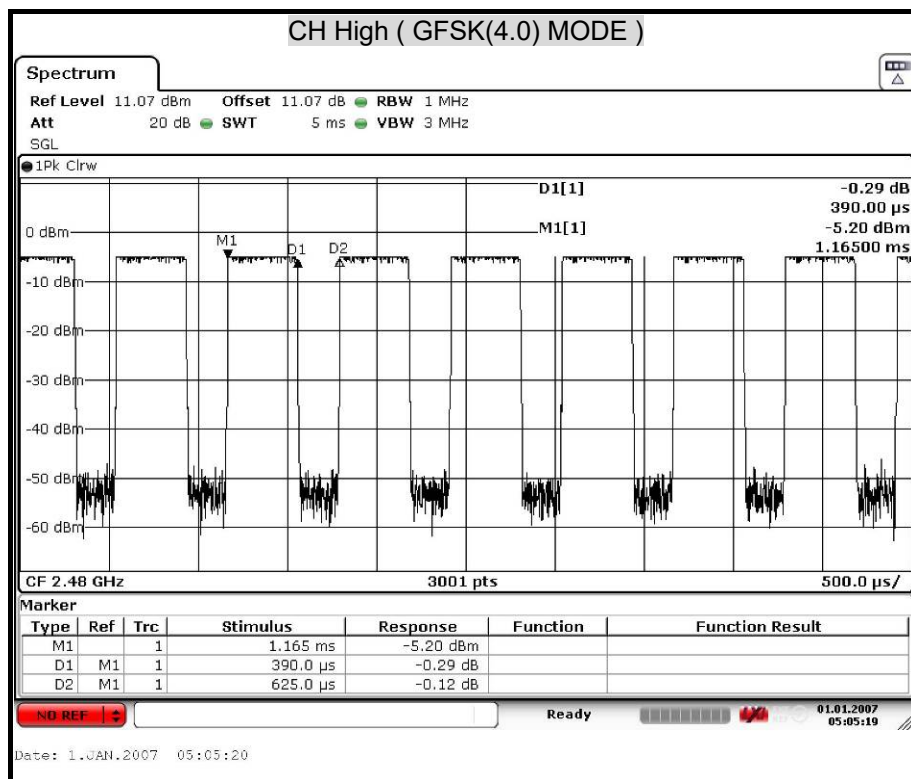
	us	Times	Ton(us)	Total Ton time(ms)
Ton1	205.000	1	205	
Ton2		0	0	
Ton3			0	0.205
Tp				0.625

Ton	0.205
Tp(Ton+Toff)	0.625
Duty Cycle	0.328
Duty Factor	4.841

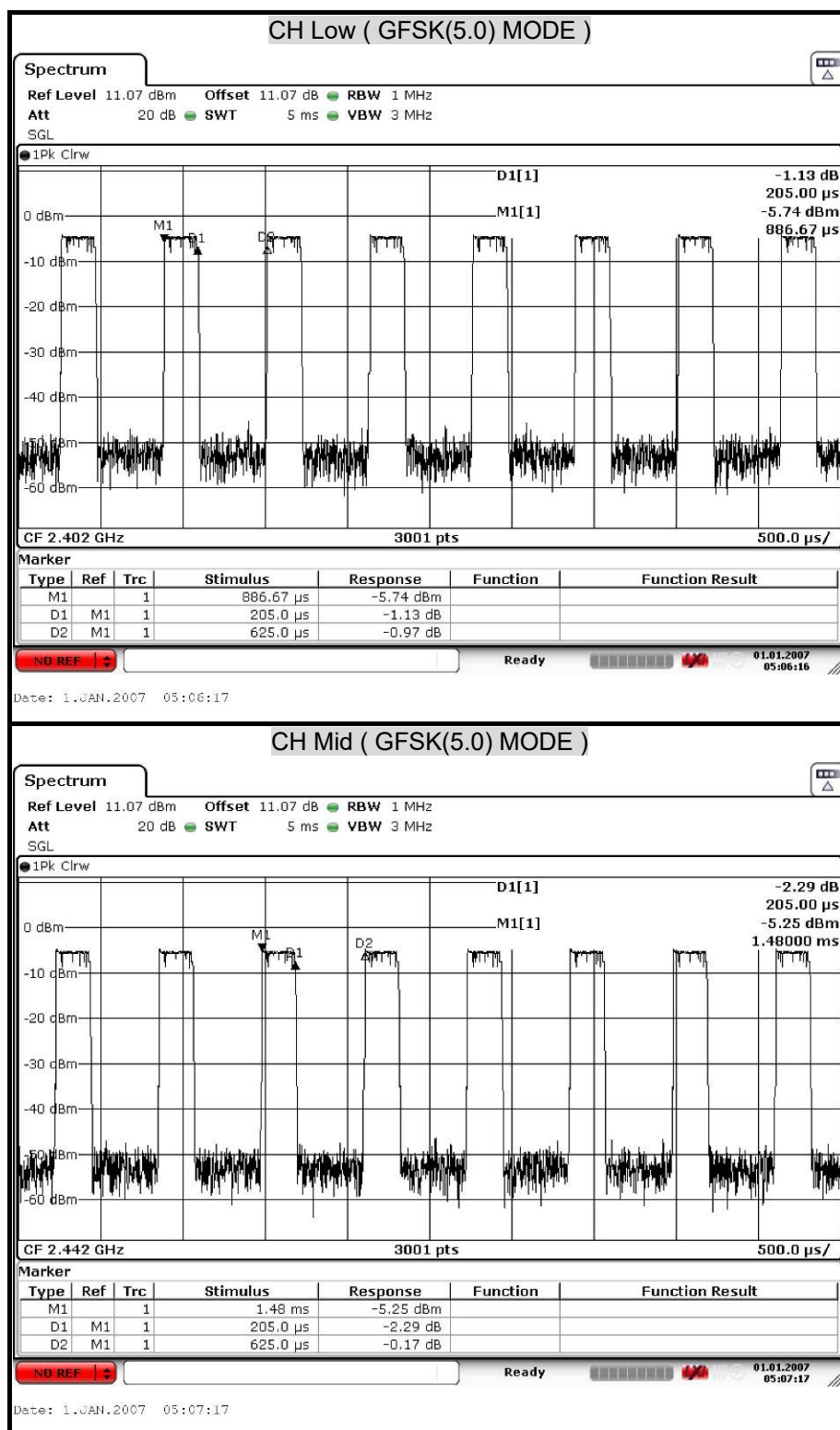
TEST PLOT

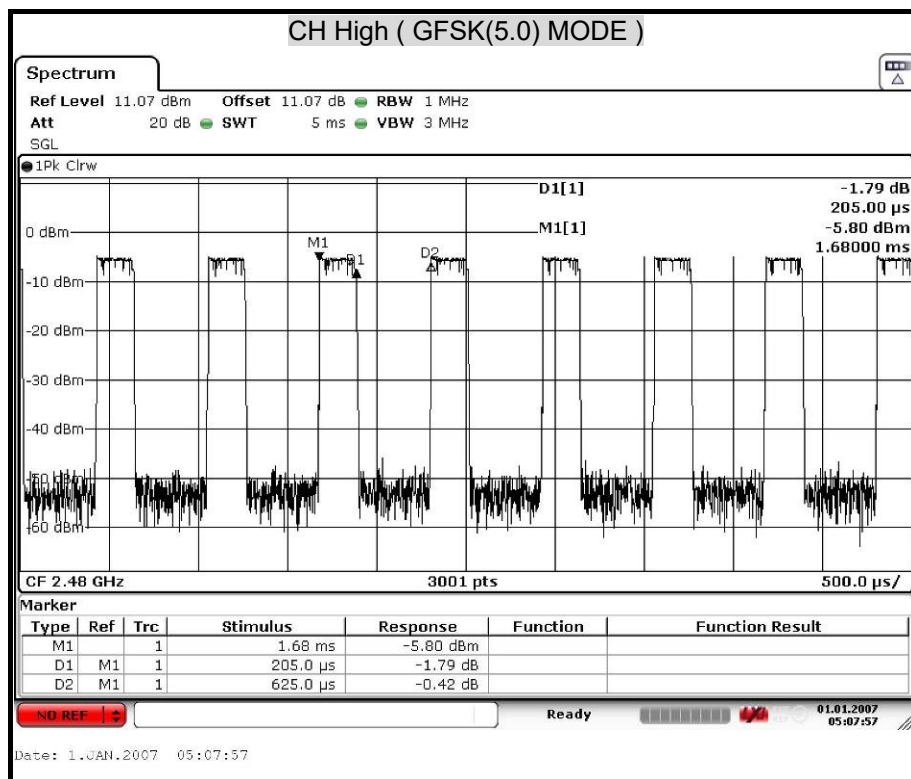
Duty Cycle





Duty Cycle



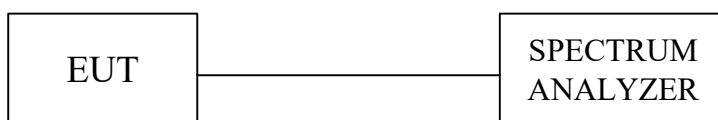


9.4 POWER SPECTRAL DENSITY

LIMIT

§ 15.247(e) For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

TEST SETUP



TEST PROCEDURE

The tests were performed in accordance with 558074 D01 15.247 Meas Guidance v05

10.2 Method PKPSD (peak PSD):

1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span to 1.5 times the DTS bandwidth.
3. Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
4. Set the VBW $\geq 3 \times \text{RBW}$.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level within the RBW.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

TEST RESULTS

No non-compliance noted.

Model Name	CS 629Q	Test By	Ted Huang
Temp & Humidity	25.5°C, 53%	Test Date	2026/05/09

GFSK(4.0) mode

Channel	Frequency (MHz)	PPSD/3kHz (dBm)	Limit (dBm)	Margin (dB)	Result
Low	2402	-19.71	8.00	-27.71	PASS
Middle	2442	-20.41	8.00	-28.41	PASS
High	2480	-20.49	8.00	-28.49	PASS

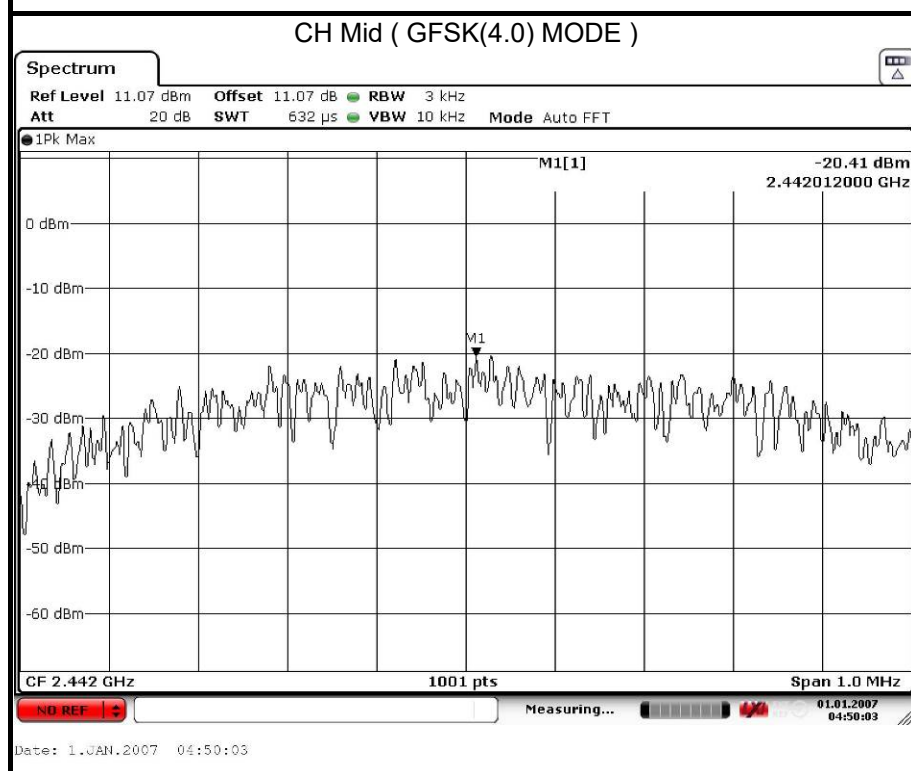
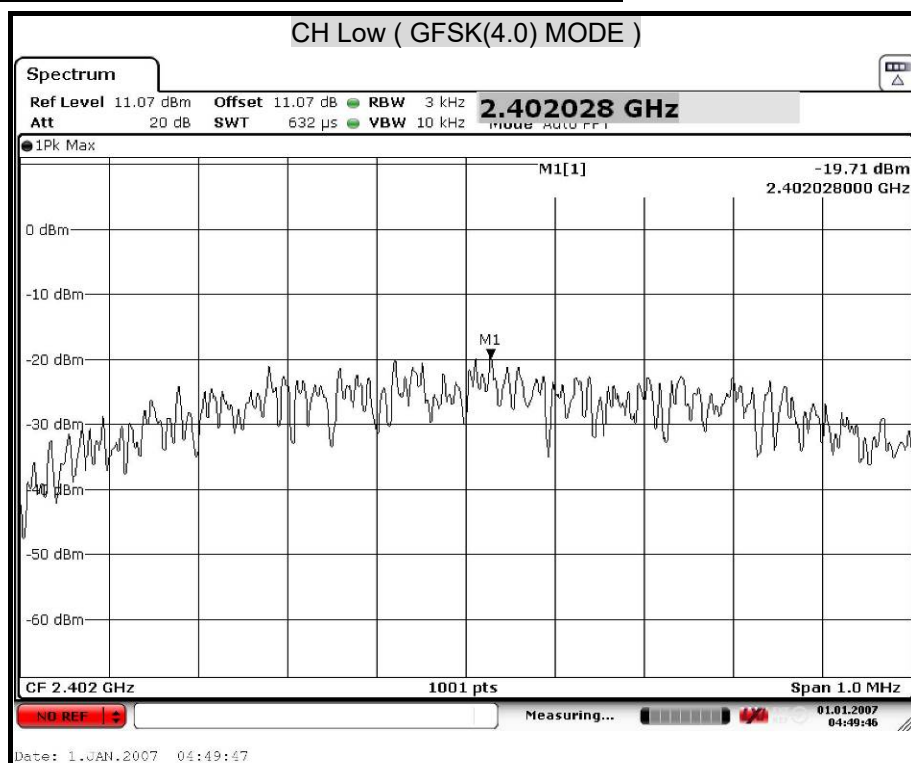
NOTE : 1. At final test to get the worst-case emission at 1Mbps long.
2. The cable assembly insertion loss of 11.07dB was entered as an offset in the spectrum analyzer to allow for direct reading of power.

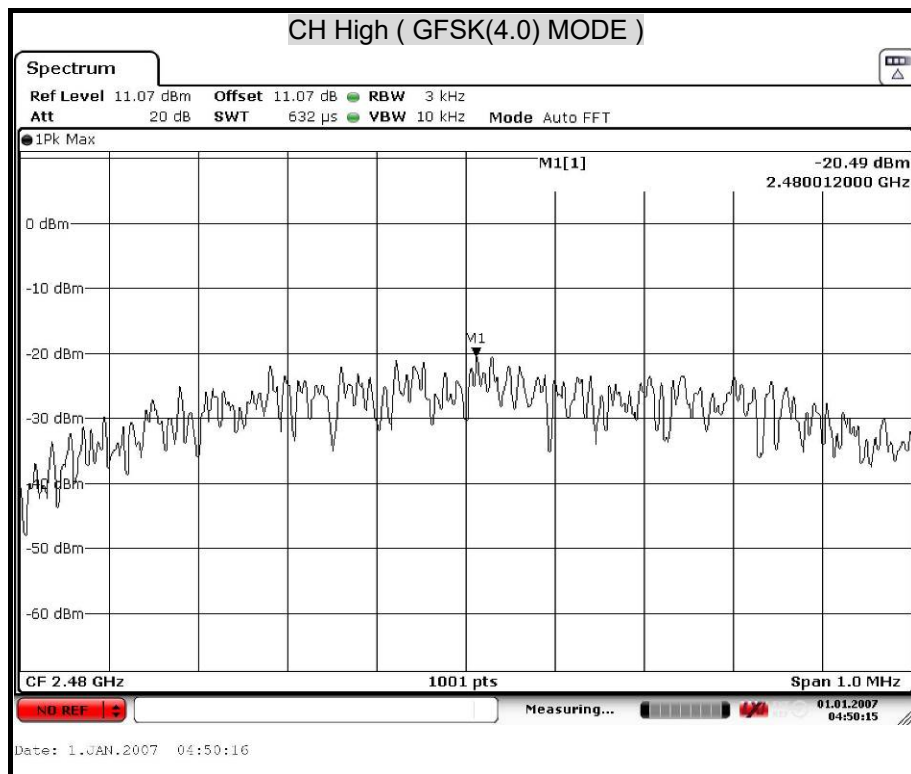
GFSK(5.0) mode

Channel	Frequency (MHz)	PPSD/3kHz (dBm)	Limit (dBm)	Margin (dB)	Result
Low	2402	-23.36	8.00	-31.36	PASS
Middle	2442	-23.94	8.00	-31.94	PASS
High	2480	-23.96	8.00	-31.96	PASS

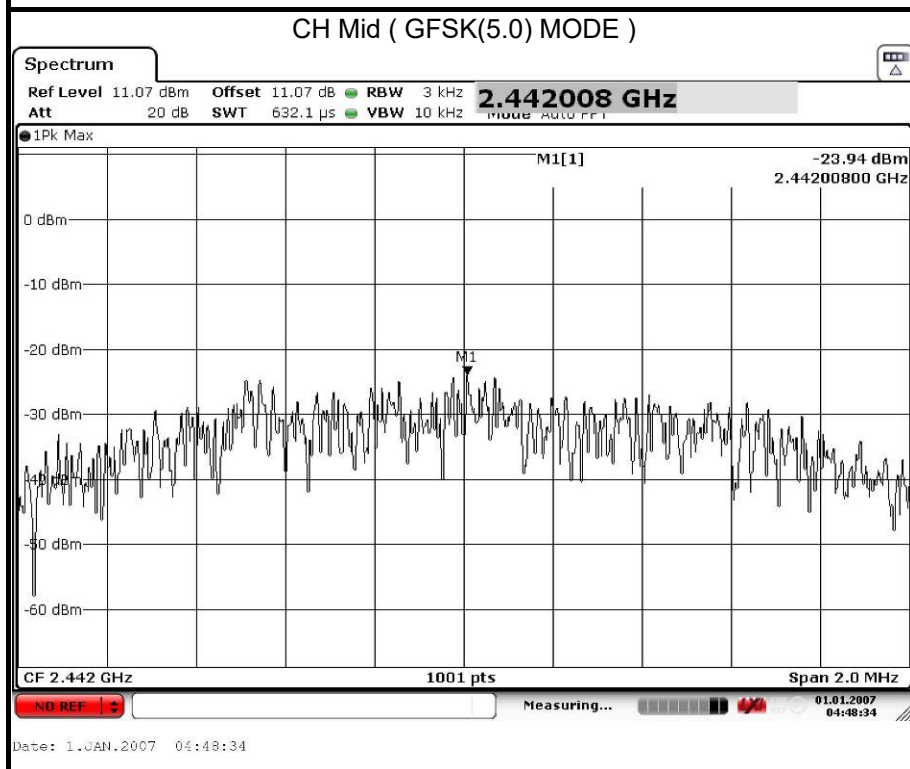
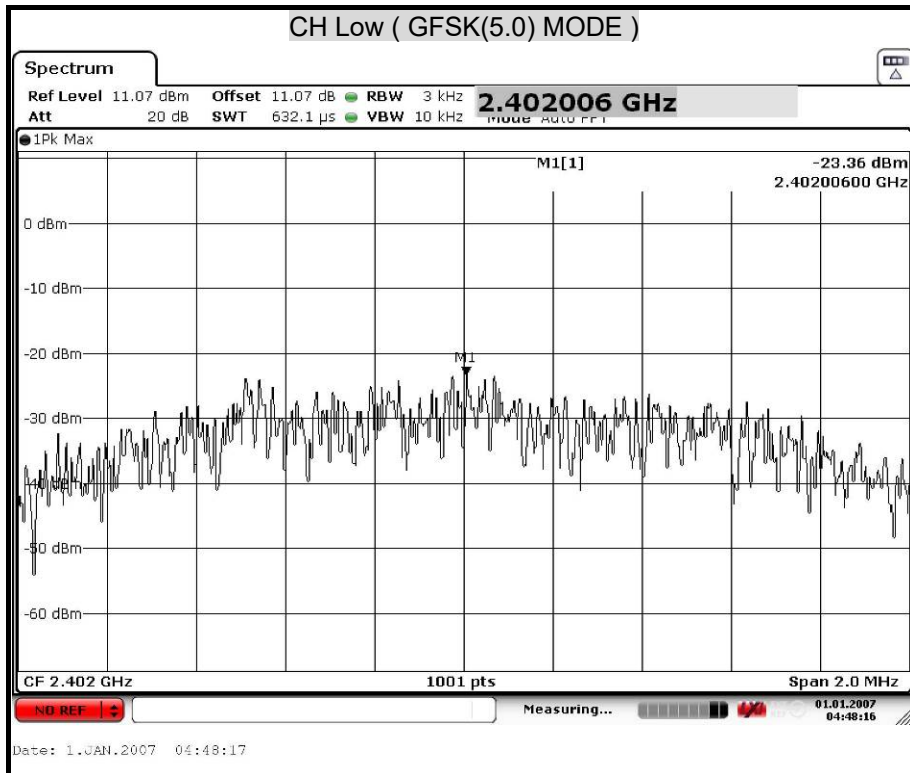
NOTE : 1. At final test to get the worst-case emission at 2Mbps long.
2. The cable assembly insertion loss of 11.07dB was entered as an offset in the spectrum analyzer to allow for direct reading of power.

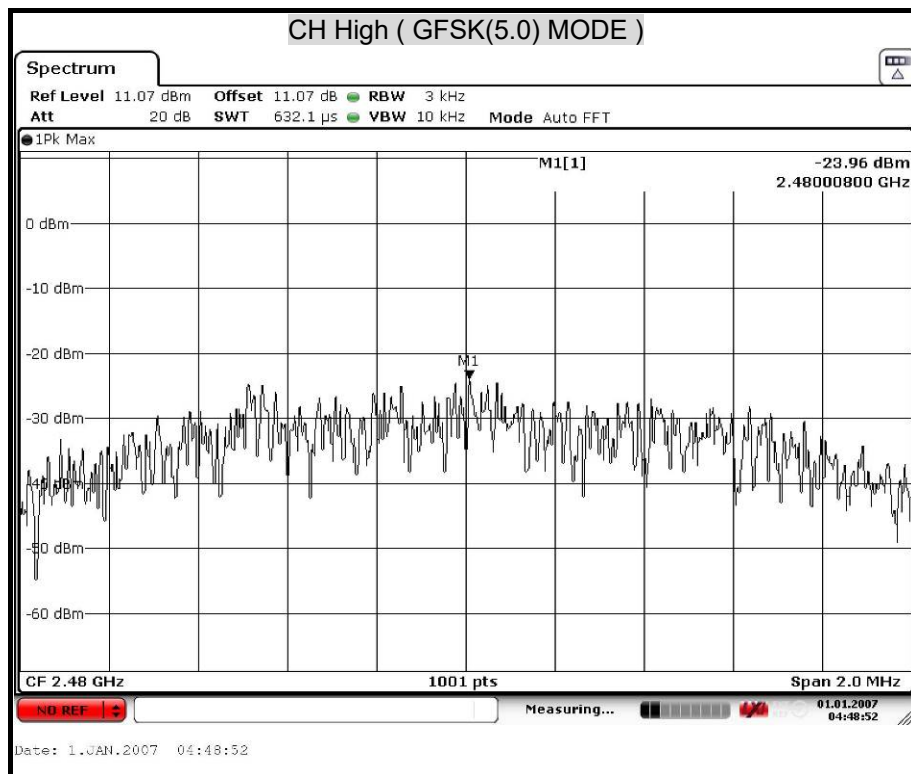
POWER SPECTRAL DENSITY (GFSK(4.0) MODE)





POWER SPECTRAL DENSITY (GFSK(5.0) MODE)





9.5 CONDUCTED SPURIOUS EMISSION

LIMITS

§ 15.247(d) 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. 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)).

TEST SETUP



TEST PROCEDURE

The transmitter output is connected to a spectrum analyzer. The resolution bandwidth is set to 100kHz, the video bandwidth is set to 300kHz.

The spectrum from 30 MHz to 26.5 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in the 2.4 GHz band.

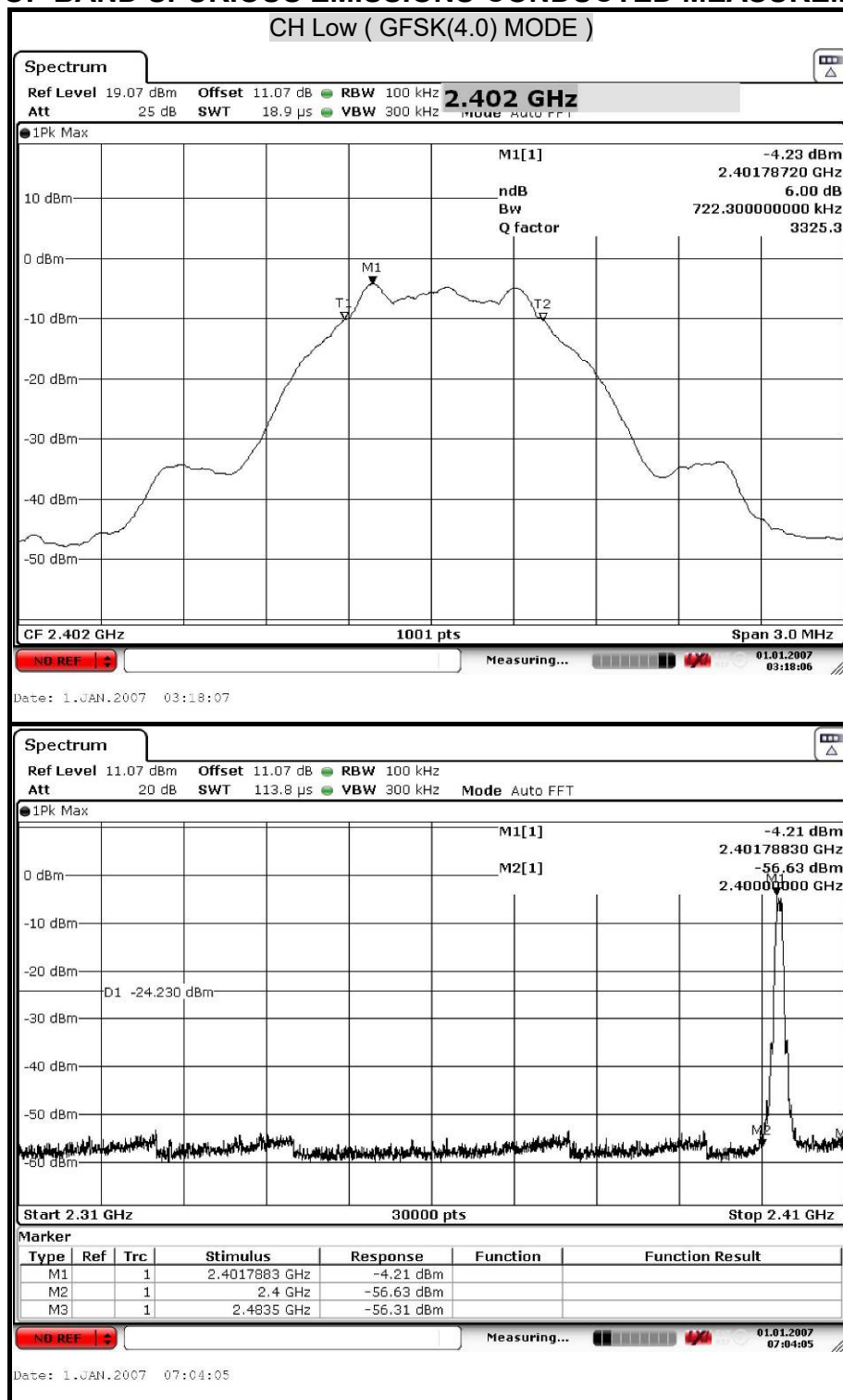
TEST RESULTS

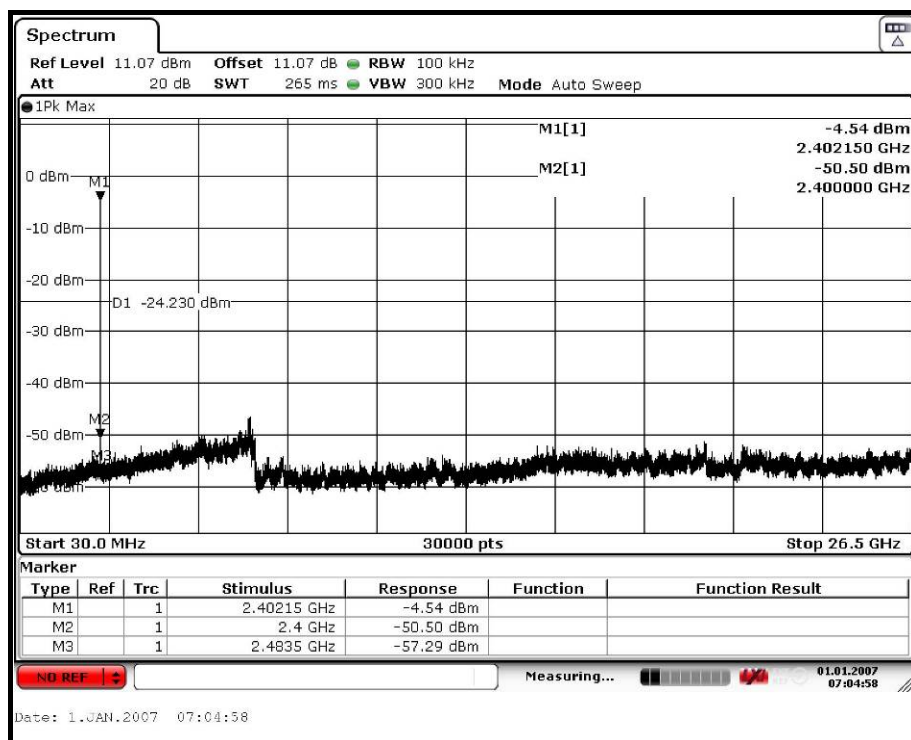
No non-compliance noted.

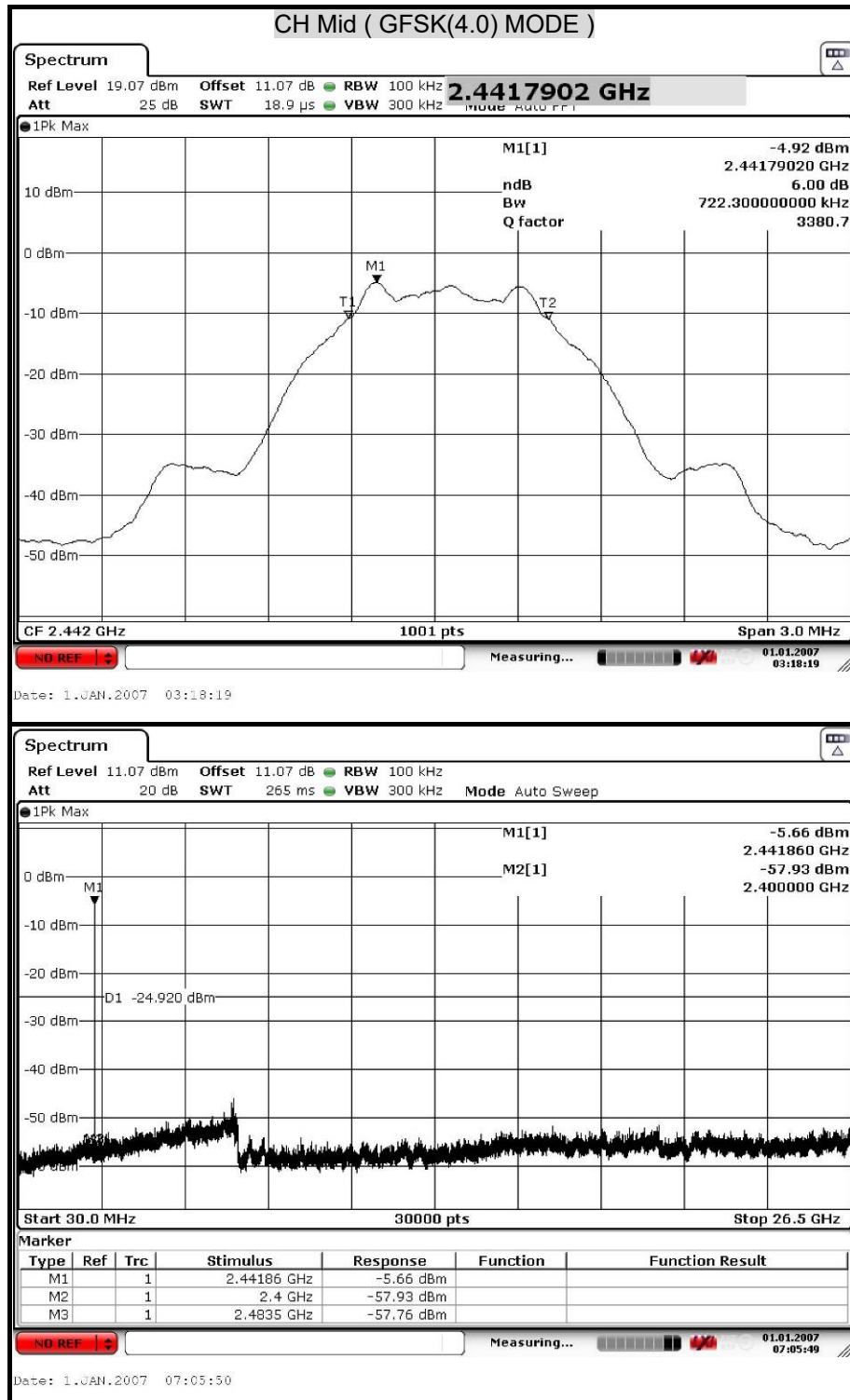
TEST DATA

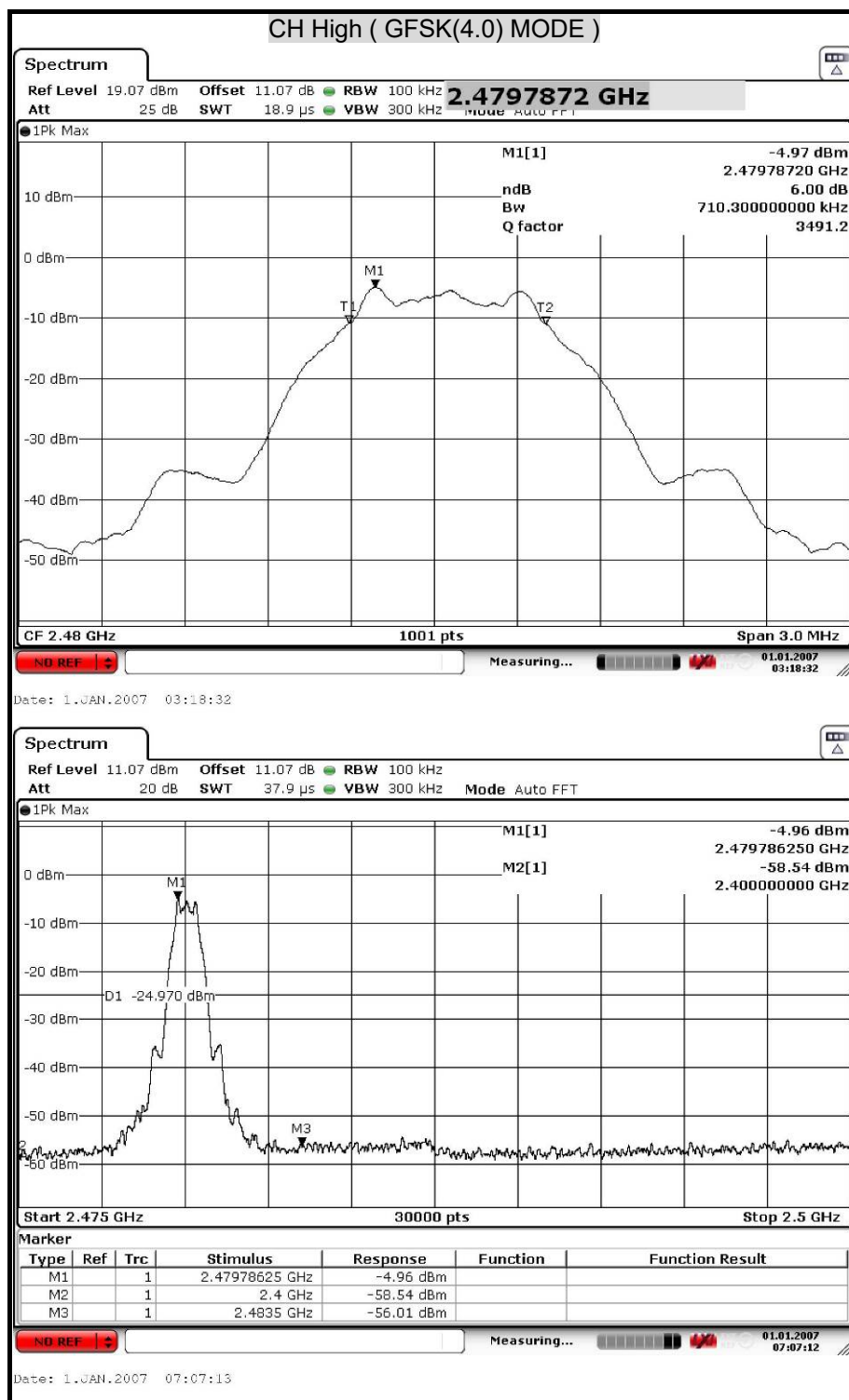
Model Name	CS 629Q	Test By	Ted Huang
Temp & Humidity	25.5°C, 53%	Test Date	2026/05/09

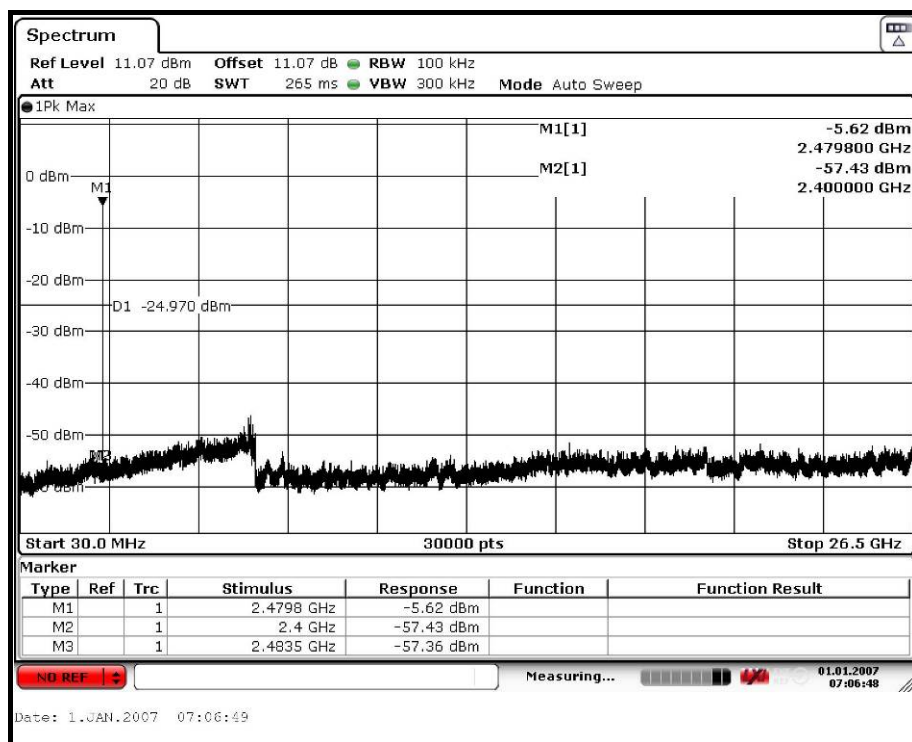
OUT-OF-BAND SPURIOUS EMISSIONS-CONDUCTED MEASUREMENT





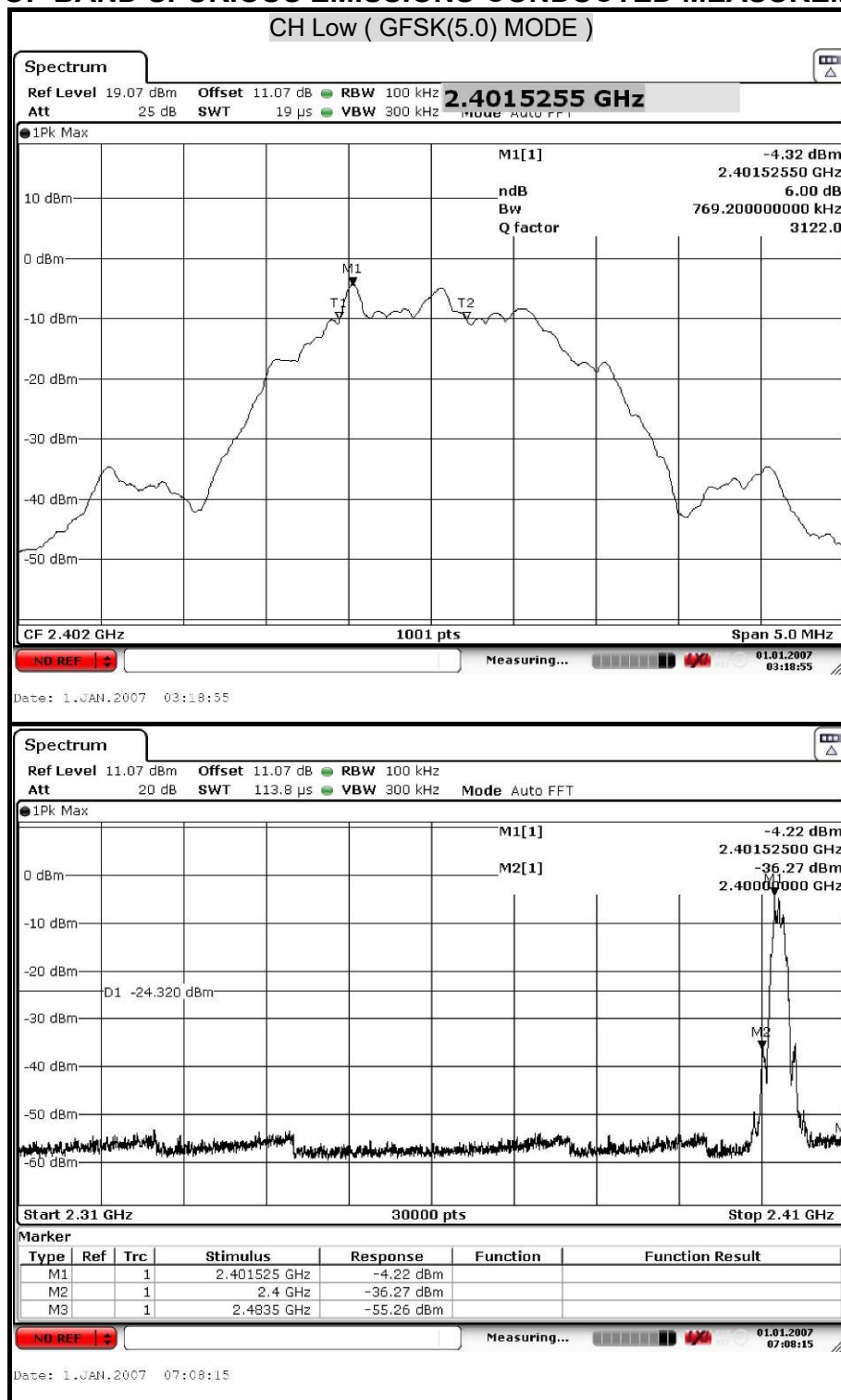


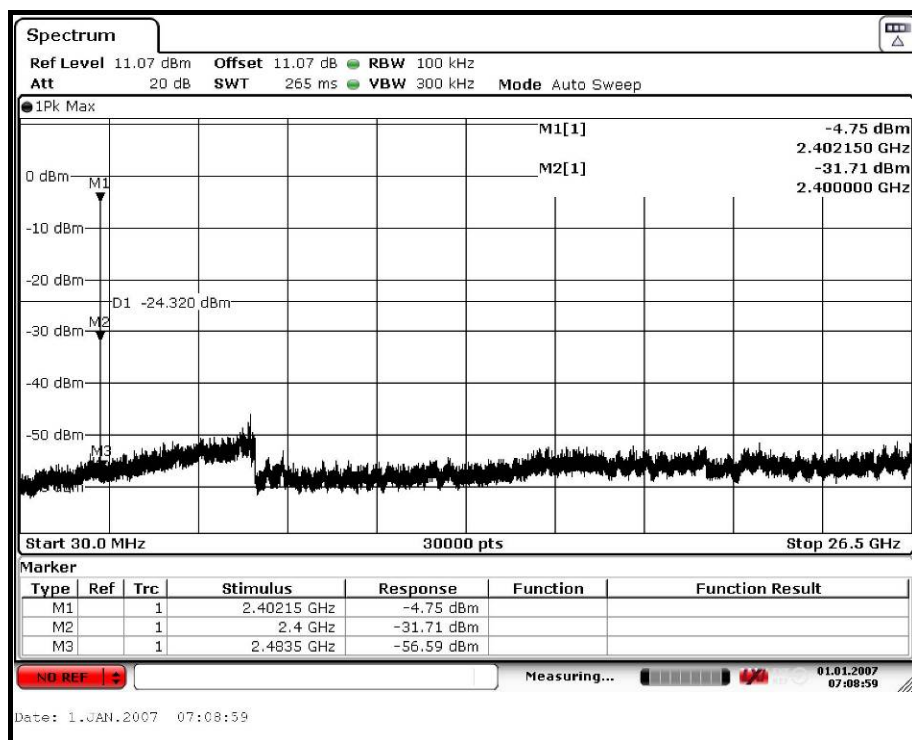


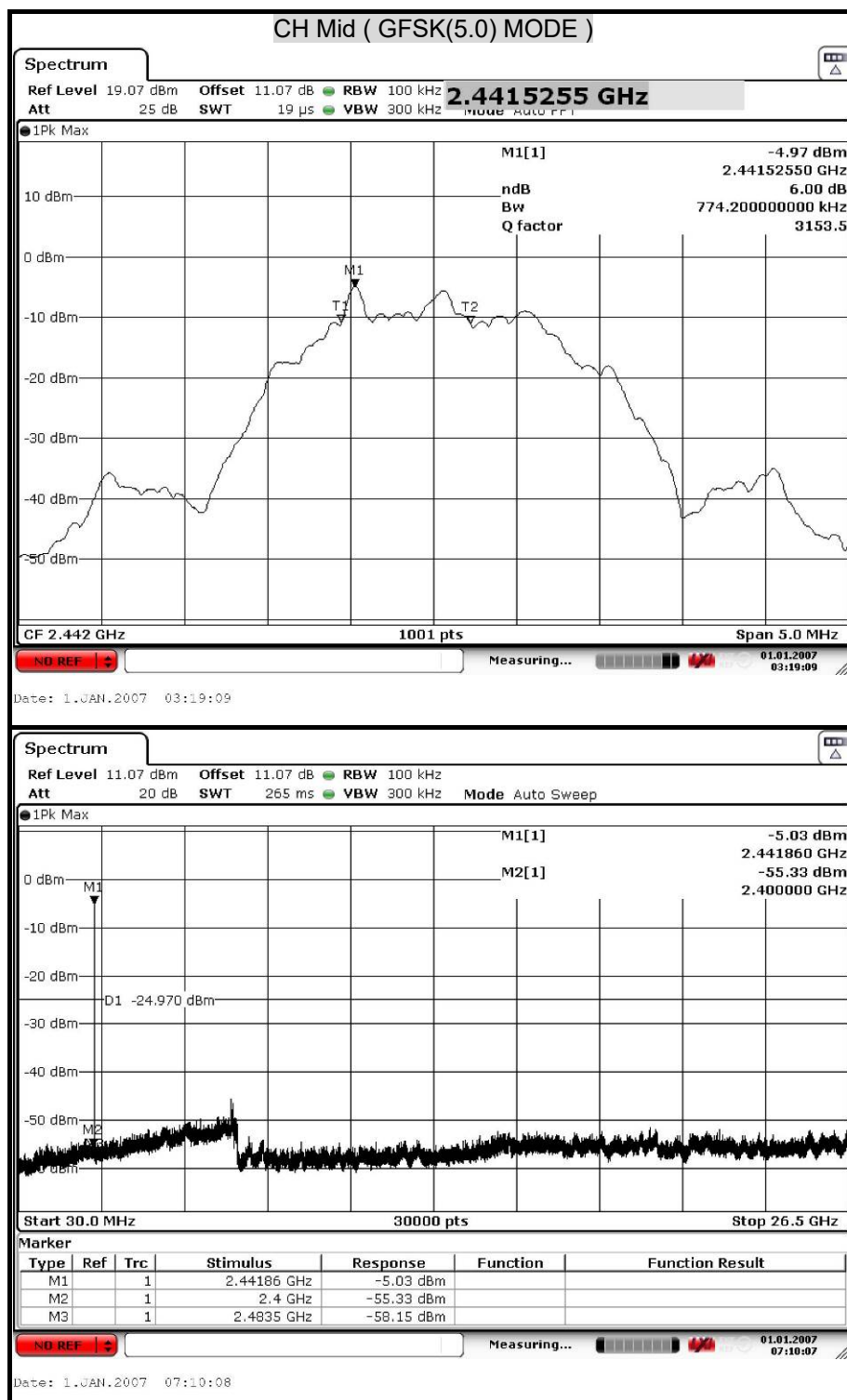


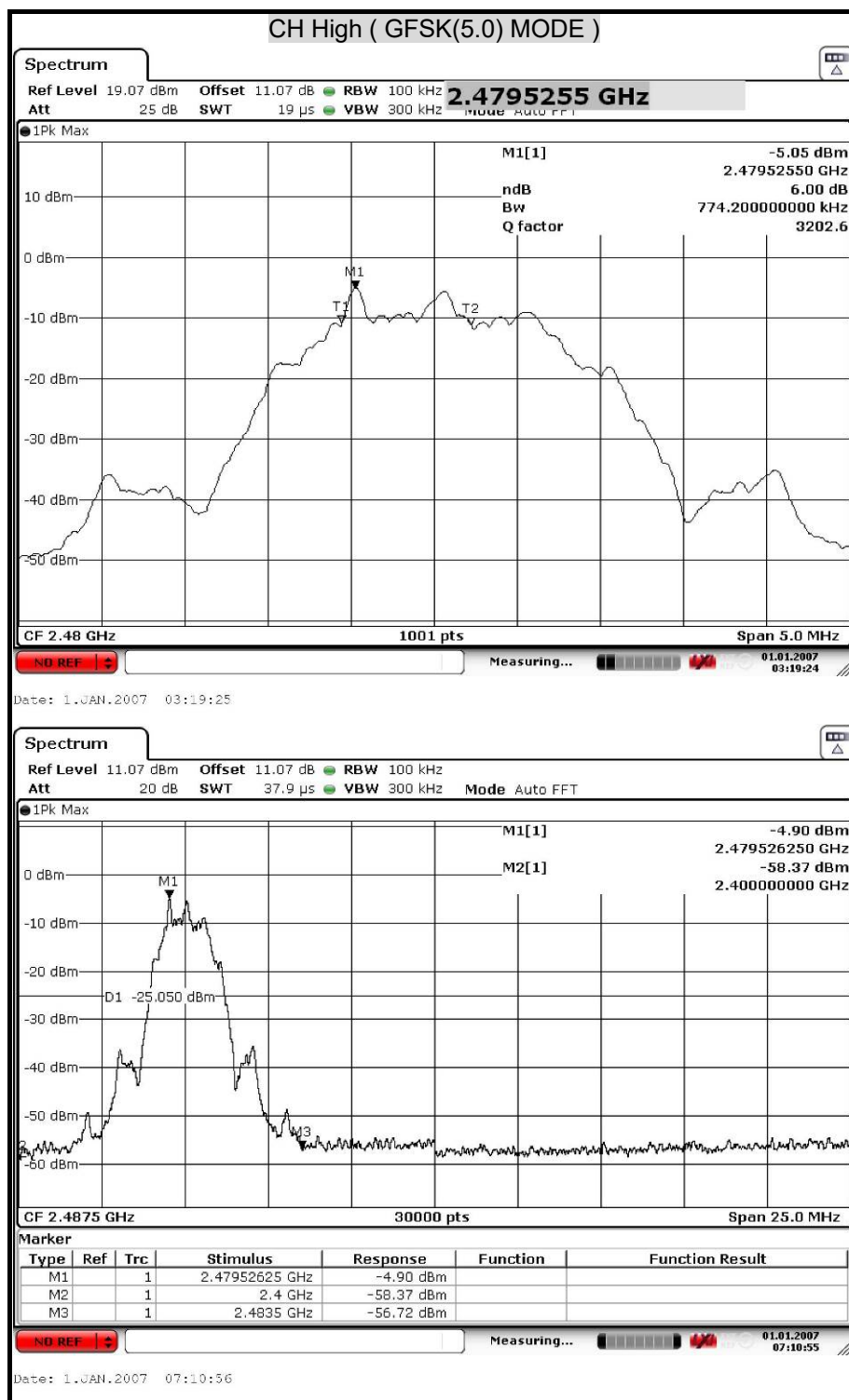
Model Name	CS 629Q	Test By	Ted Huang
Temp & Humidity	25.5°C, 53%	Test Date	2026/05/09

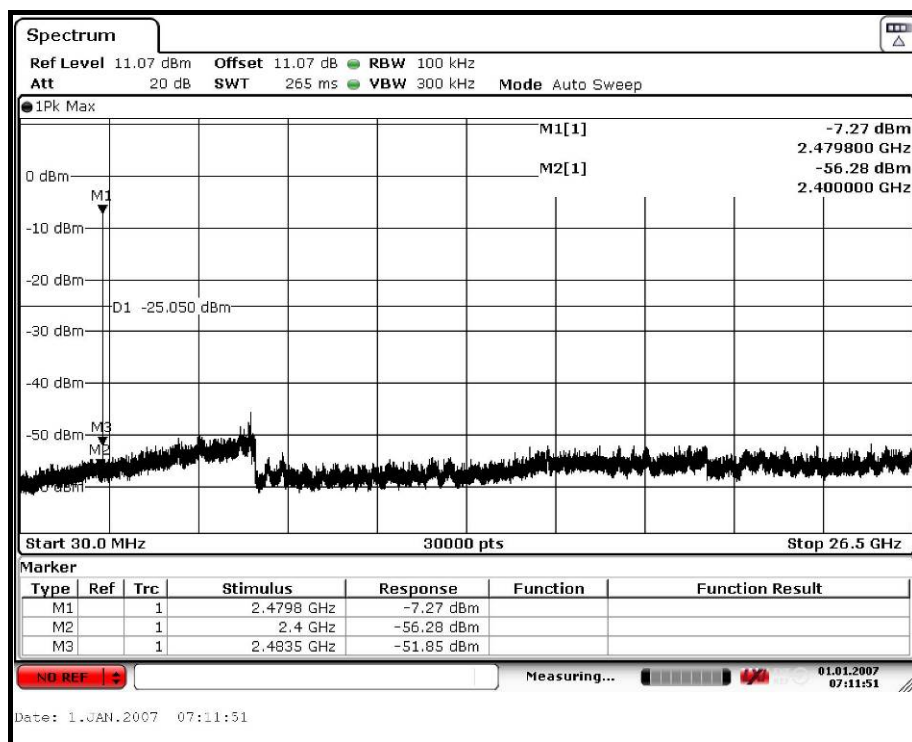
OUT-OF-BAND SPURIOUS EMISSIONS-CONDUCTED MEASUREMENT











9.6 RADIATED EMISSIONS

9.6.1 TRANSMITTER RADIATED SUPURIOUS EMISSIONS

LIMITS

§ 15.205 (a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2655 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3338	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	(²)
13.36 - 13.41			

¹ Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

² Above 38.6

§ 15.205 (b) Except as provided in paragraphs (d) and (e), the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

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§ 15.209 (a) Except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table :

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
30 - 88	100 **	3
88 - 216	150 **	3
216 - 960	200 **	3
Above 960	500	3

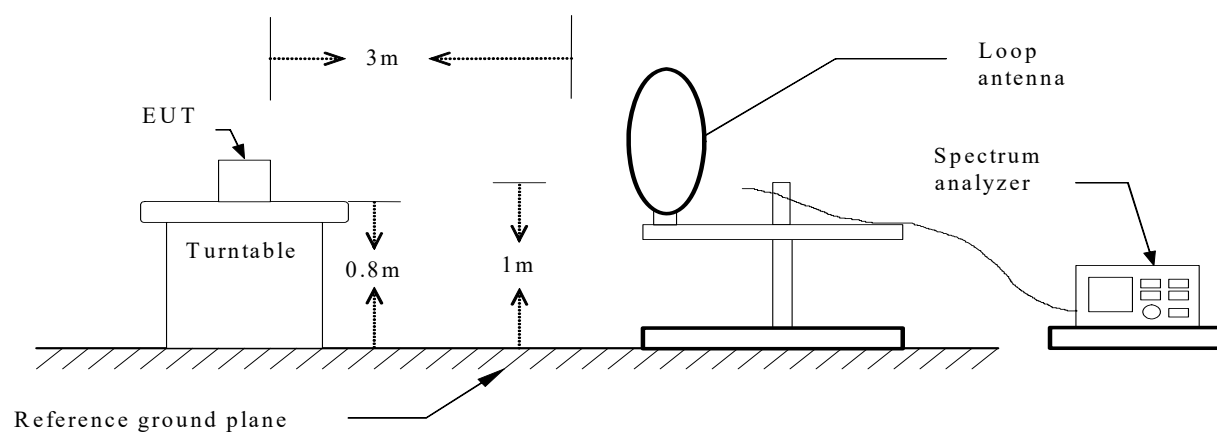
** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz, However, operation within these frequency bands is permitted under other sections of this Part, e-g, Sections 15.231 and 15.241.

§ 15.209 (b) In the emission table above, the tighter limit applies at the band edges.

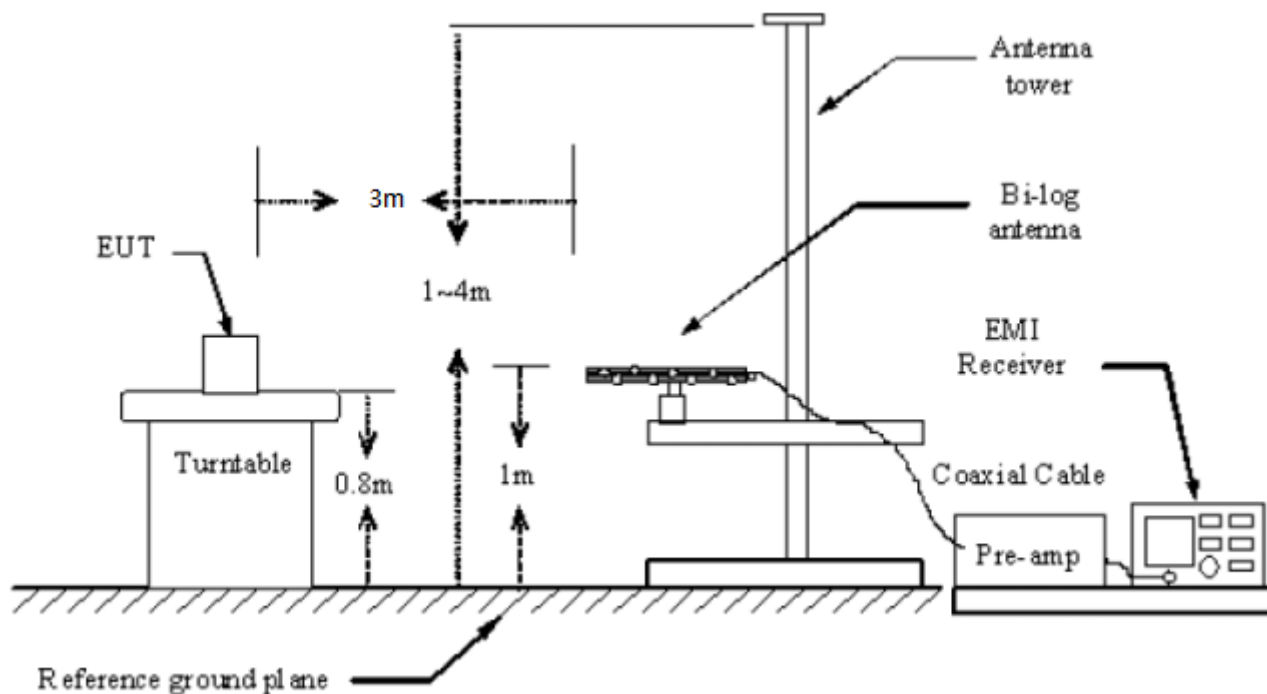
TEST SETUP

The diagram below shows the test setup that is utilized to make the measurements for emission from below 1GHz.

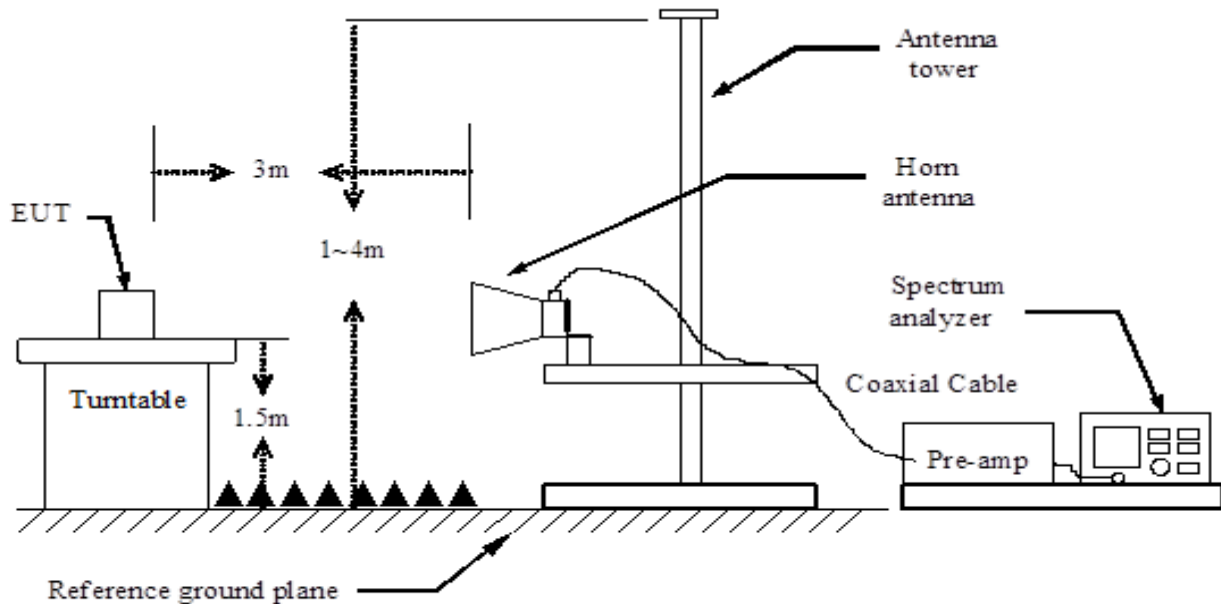
9kHz ~ 30MHz



30MHz ~ 1GHz



The diagram below shows the test setup that is utilized to make the measurements for emission above 1GHz.



TEST PROCEDURE

- The EUT was placed on the top of a rotating table 0.8/1.5 meters above the ground at a 3 meter chamber test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- While measuring the radiated emission below 1GHz, the EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. While measuring the radiated emission above 1GHz, the EUT was set 3 meters away from the interference-receiving antenna.
- The antenna is a broadband antenna, and its 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 polarization 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 table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The spectrum analyzer was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- If the emission level of the EUT in peak mode was 10 dB 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 10 dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- The tests were performed in accordance with 558074 D01 15.247 Meas Guidance v05

NOTE:

1. The resolution bandwidth of test receiver is 200Hz for Quasi-peak detection (QP) and Average detection (AV) at frequency 9~150(kHz).
2. The resolution bandwidth of test receiver is 9kHz for Quasi-peak detection (QP) and Average detection (AV) at frequency 0.15~30(MHz).
3. The resolution bandwidth of test receiver is 120kHz for Quasi-peak detection (QP) at frequency 30~1000(MHz).
4. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz for Peak detection and frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth $\leq 1/T$ for Average detection (AV) at frequency above 1GHz.

TEST RESULTS

No non-compliance noted

Report No.: TMTN2604000372NR

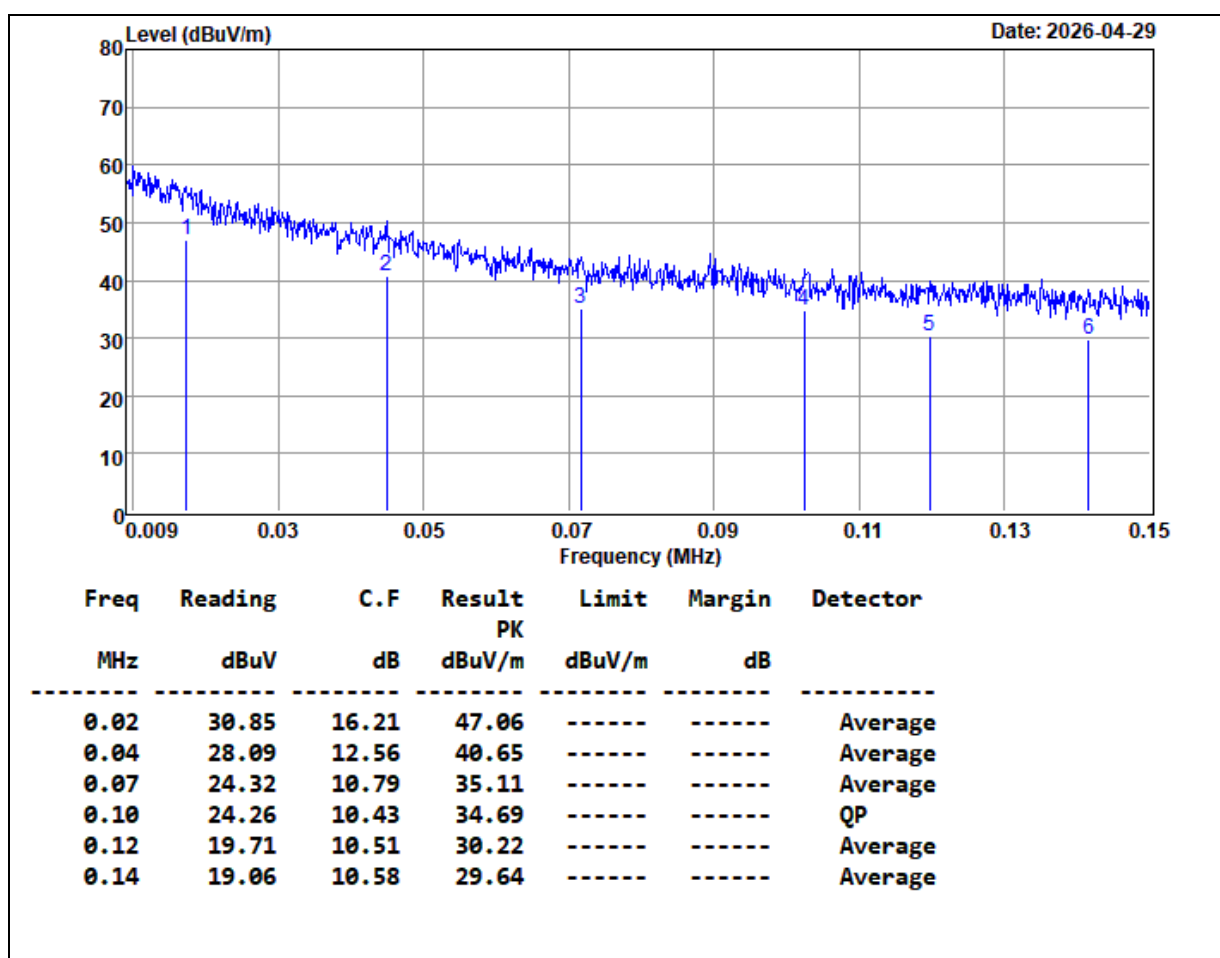
9.6.2 WORST-CASE RADIATED EMISSION BELOW 1 GHz

9kHz~150kHz

3m Distance

Test Voltage: AC 120V, 60Hz

Product Name	Fully Automatic Direct Drive Turntable	Test Date	2026/04/29
Model Name	CS 629Q	Test By	Ted Huang
Test Mode	TX	Temp & Humidity	25.6°C, 44%

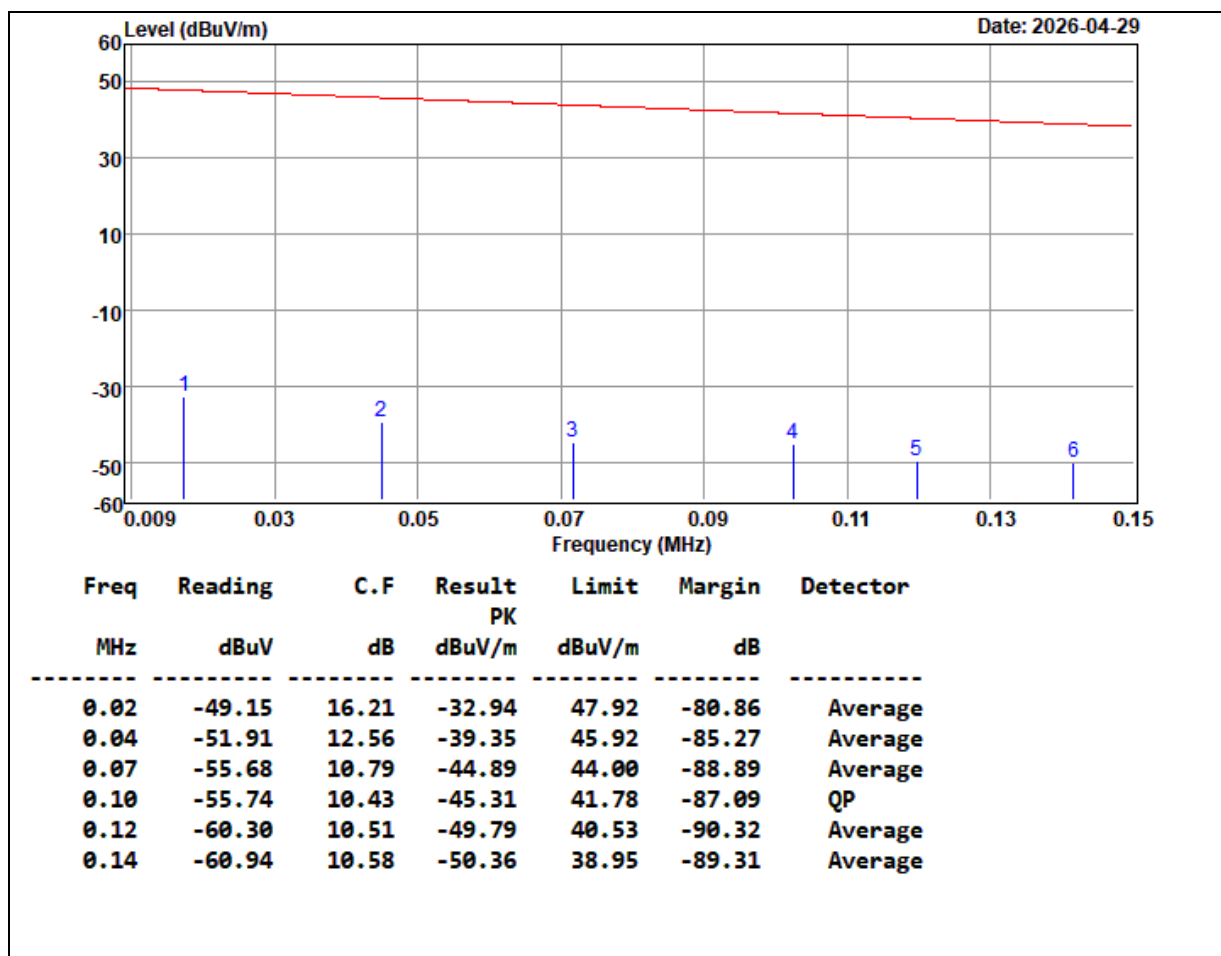


REMARK:

1. Test receiver setting QP(Quasi Peak) 、Average: RBW=200Hz
2. C.F=Antenna Factor+Cable Loss
3. The result basic equation calculation is as follow: Result = Reading + C.F, Margin = Result-Limit
4. The other emission levels were 10dB below the limit
5. The test distance is 3m.

Standard Distance

Product Name	Fully Automatic Direct Drive Turntable	Test Date	2026/04/29
Model Name	CS 629Q	Test By	Ted Huang
Test Mode	TX	Temp & Humidity	25.6°C, 44%



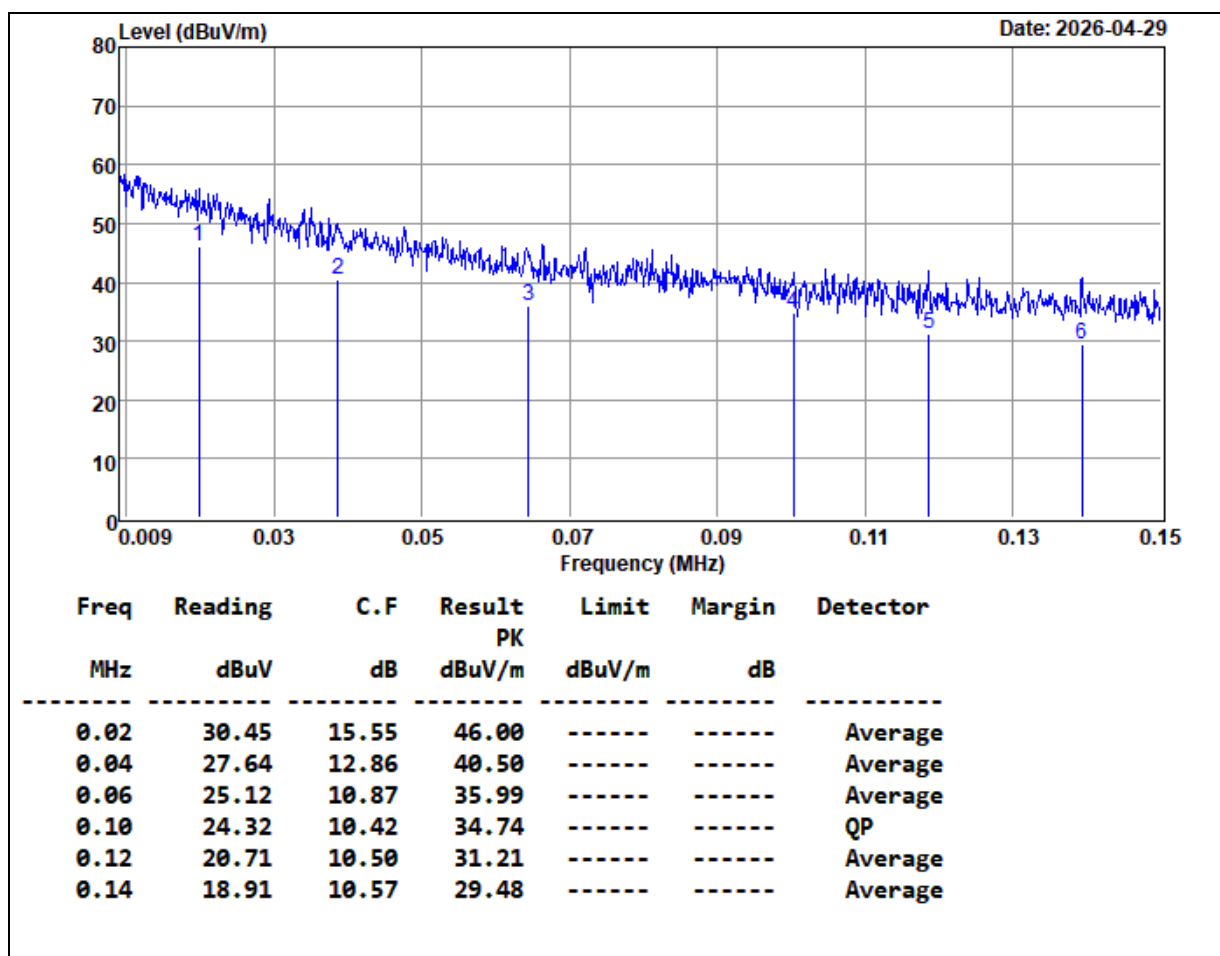
REMARK:

1. Test receiver setting QP(Quasi Peak) 、Average: RBW=200Hz
2. C.F=Antenna Factor+Cable Loss
3. The result basic equation calculation is as follow: Result = Reading + C.F, Margin = Result-Limit
4. The other emission levels were 10dB below the limit
5. The test is standard distance.

3m Distance

Test Voltage: AC 120V, 60Hz

Product Name	Fully Automatic Direct Drive Turntable	Test Date	2026/04/29
Model Name	CS 629Q	Test By	Ted Huang
Test Mode	RX	Temp & Humidity	25.6°C, 44%

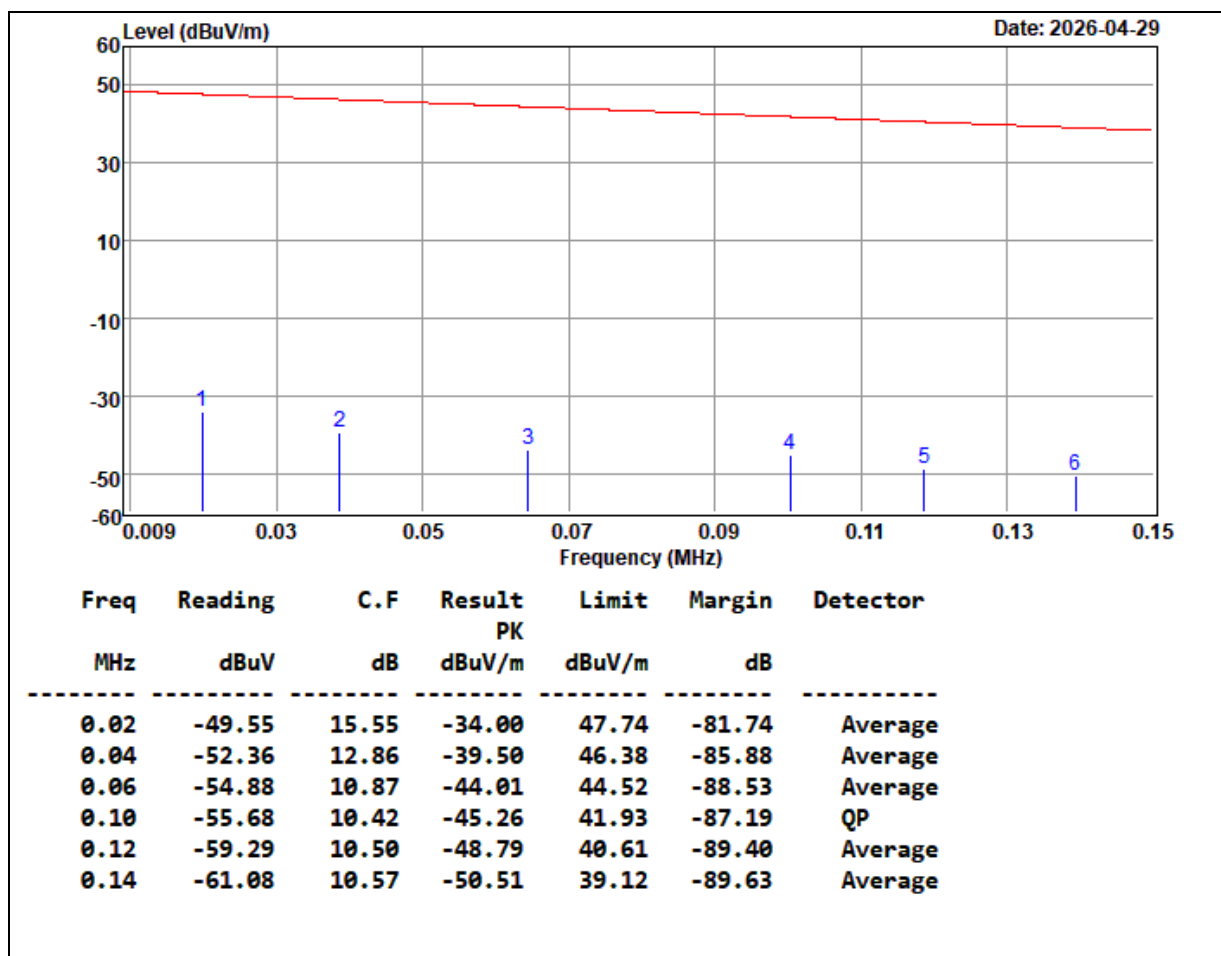


REMARK:

1. Test receiver setting QP(Quasi Peak) 、Average: RBW=200Hz
2. C.F=Antenna Factor+Cable Loss
3. The result basic equation calculation is as follow: Result = Reading + C.F, Margin = Result-Limit
4. The other emission levels were 10dB below the limit
5. The test distance is 3m.

Standard Distance

Product Name	Fully Automatic Direct Drive Turntable	Test Date	2026/04/29
Model Name	CS 629Q	Test By	Ted Huang
Test Mode	RX	Temp & Humidity	25.6°C, 44%



REMARK:

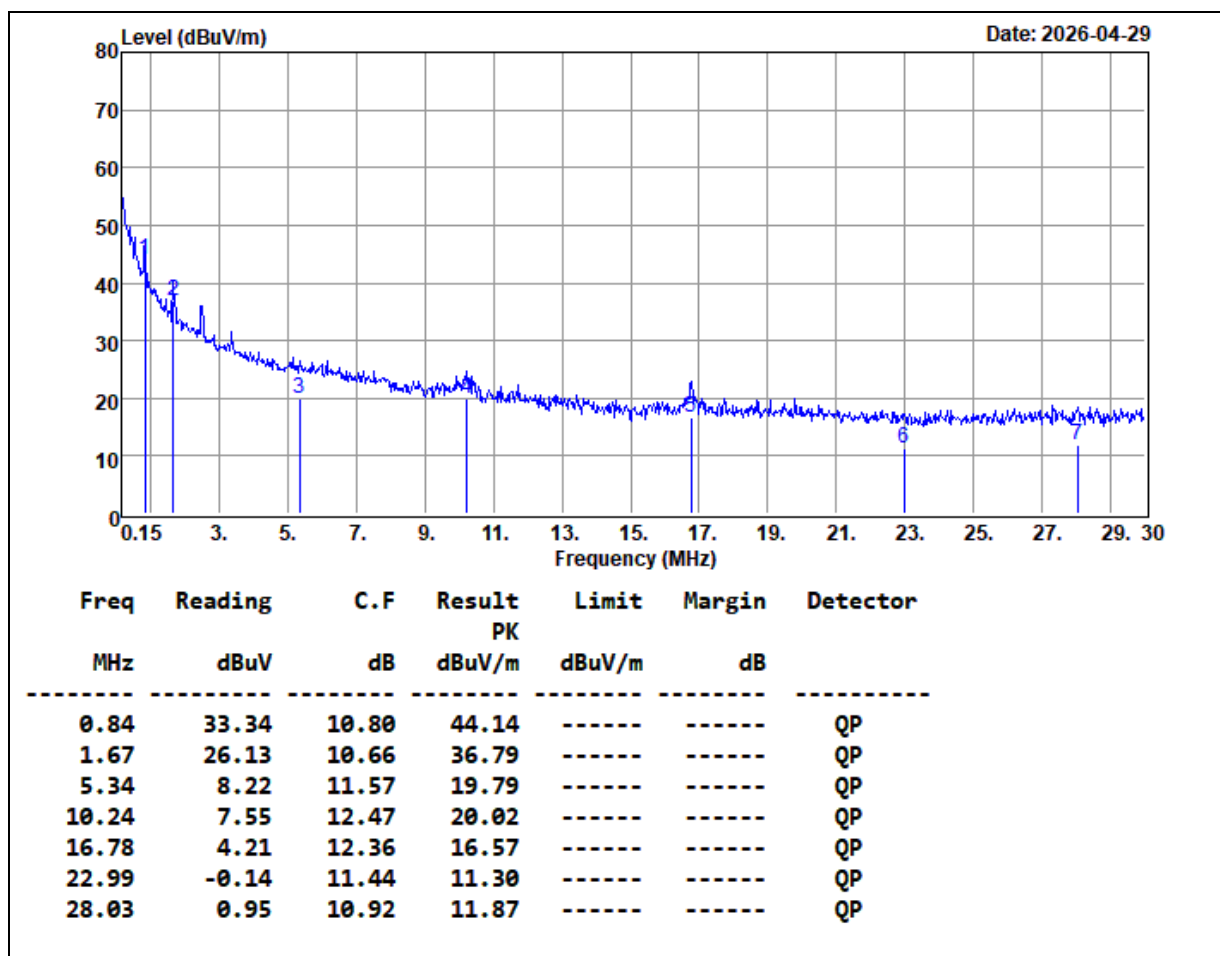
1. Test receiver setting QP(Quasi Peak) 、Average: RBW=200Hz
2. C.F=Antenna Factor+Cable Loss
3. The result basic equation calculation is as follow: Result = Reading + C.F, Margin = Result-Limit
4. The other emission levels were 10dB below the limit
5. The test is standard distance.

150kHz~30MHz

3m Distance

Test Voltage: AC 120V, 60Hz

Product Name	Fully Automatic Direct Drive Turntable	Test Date	2026/04/29
Model Name	CS 629Q	Test By	Ted Huang
Test Mode	TX	Temp & Humidity	25.6°C, 44%

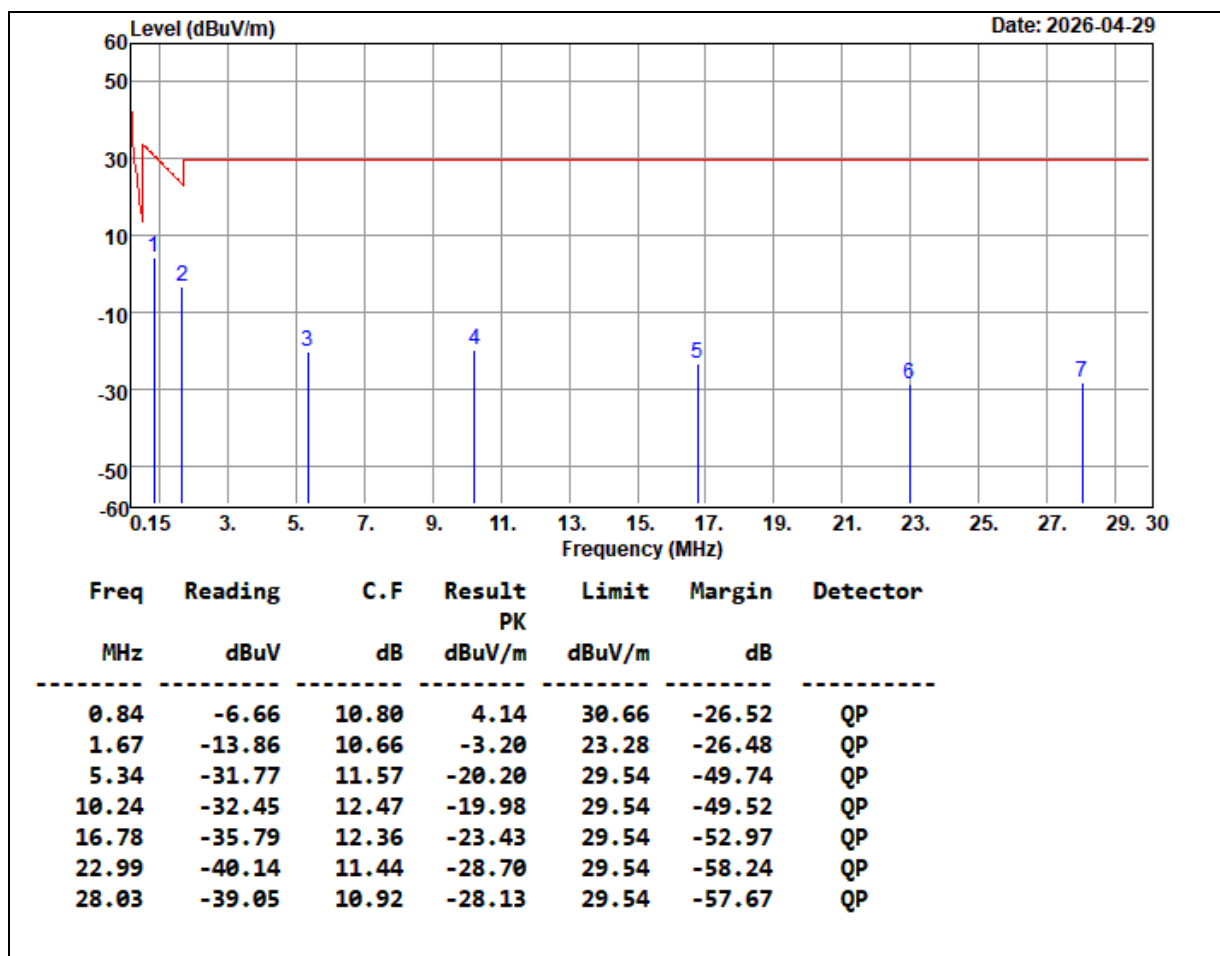


REMARK:

- 1.Test receiver setting QP(Qusai Peak) 、Average: RBW=9kHz
- 2.C.F=Antenna Factor+Cable Loss
- 3.The result basic equation calculation is as follow:Result = Reading + C.F, Margin = Result-Limit
- 4.The other emission levels were 10dB below the limit
- 5.The test distance is 3m.

Standard Distance

Product Name	Fully Automatic Direct Drive Turntable	Test Date	2026/04/29
Model Name	CS 629Q	Test By	Ted Huang
Test Mode	TX	Temp & Humidity	25.6°C, 44%



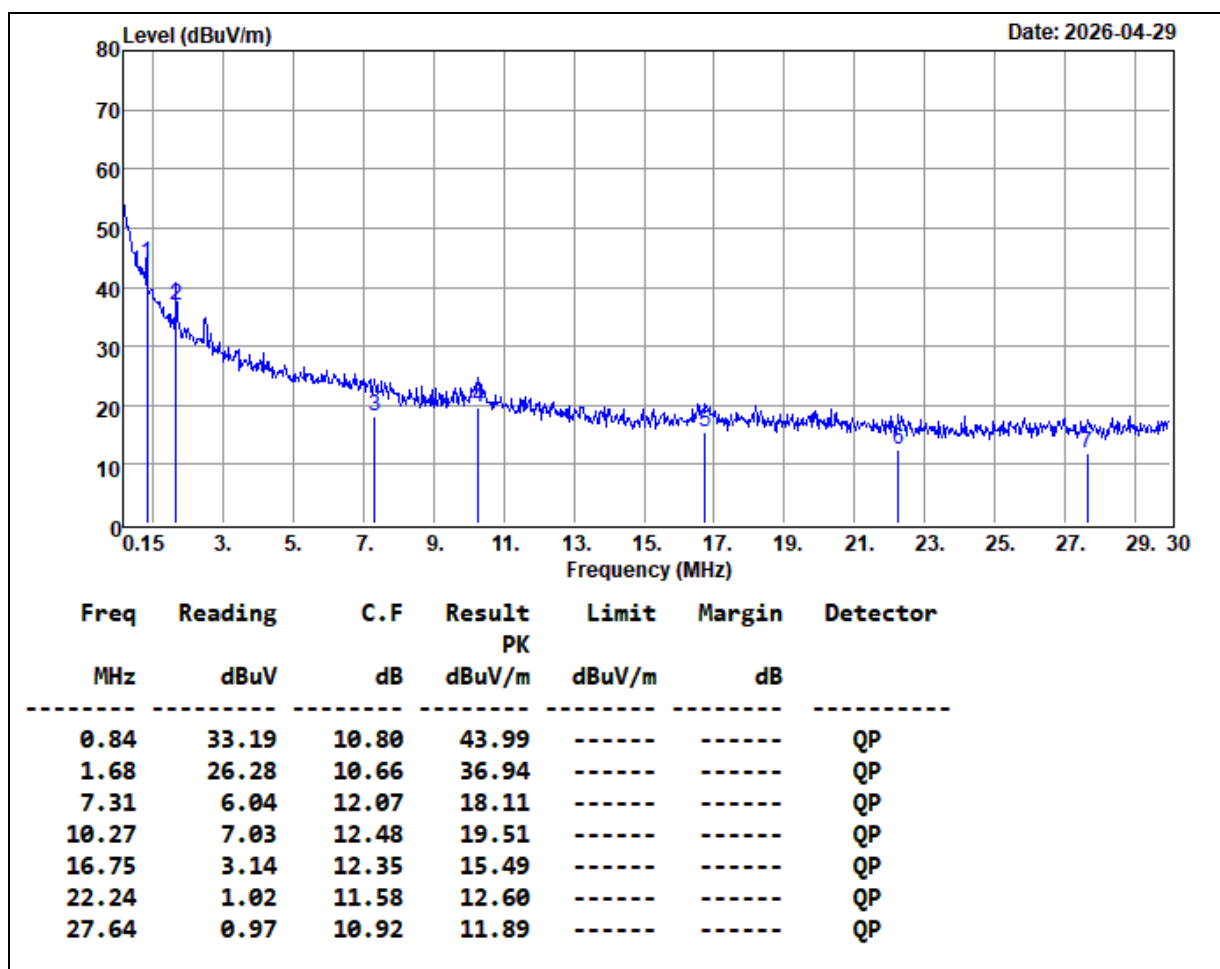
REMARK:

1. Test receiver setting QP(Qusai Peak) 、Average: RBW=9kHz
2. C.F=Antenna Factor+Cable Loss
3. The result basic equation calculation is as follow: Result = Reading + C.F, Margin = Result-Limit
4. The other emission levels were 10dB below the limit
5. The test is standard distance.

3m Distance

Test Voltage: AC 120V, 60Hz

Product Name	Fully Automatic Direct Drive Turntable	Test Date	2026/04/29
Model Name	CS 629Q	Test By	Ted Huang
Test Mode	RX	Temp & Humidity	25.6°C, 44%

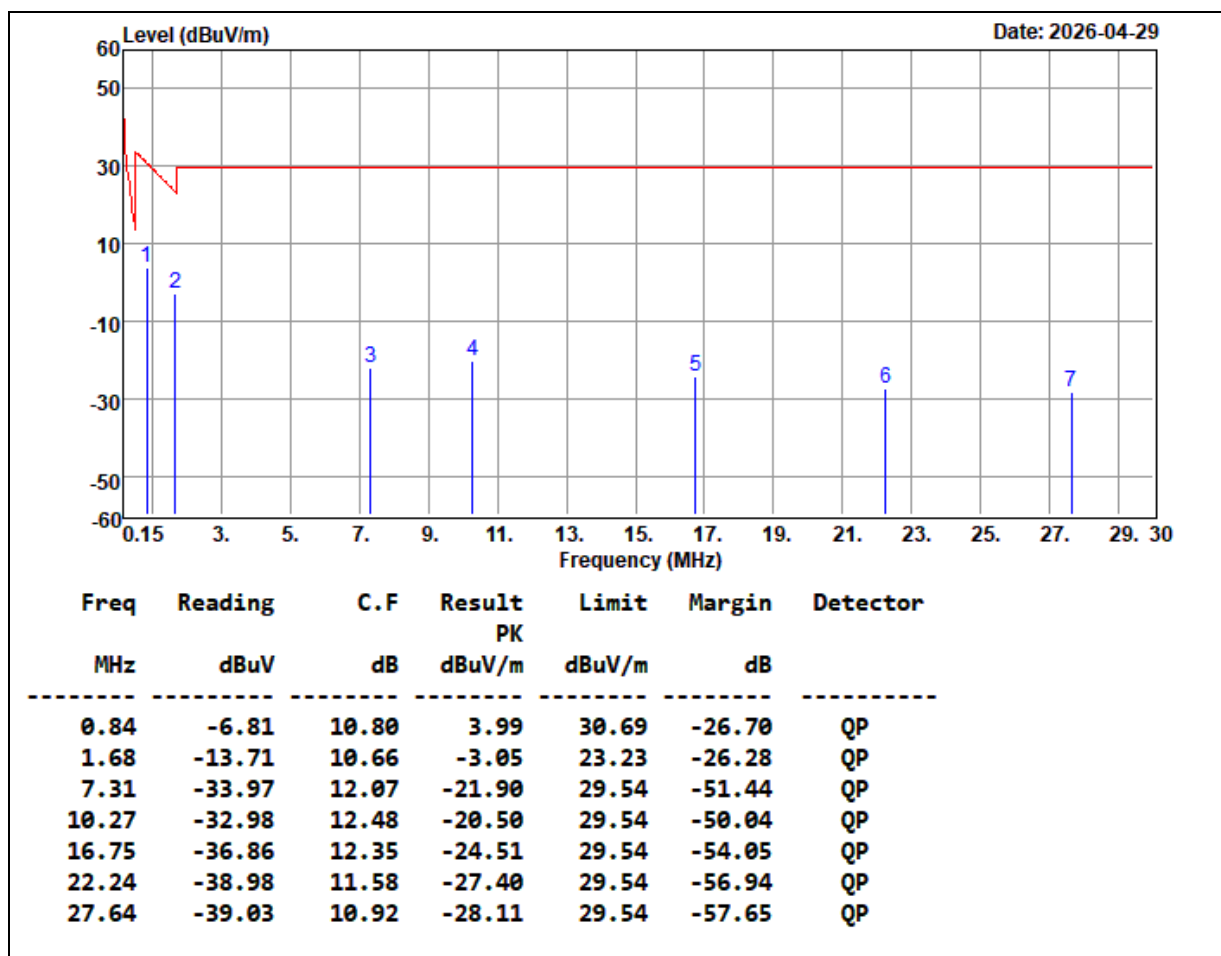


REMARK:

1. Test receiver setting QP(Qusai Peak) 、Average: RBW=9kHz
2. C.F=Antenna Factor+Cable Loss
3. The result basic equation calculation is as follow: Result = Reading + C.F, Margin = Result-Limit
4. The other emission levels were 10dB below the limit
5. The test distance is 3m.

Standard Distance

Product Name	Fully Automatic Direct Drive Turntable	Test Date	2026/04/29
Model Name	CS 629Q	Test By	Ted Huang
Test Mode	RX	Temp & Humidity	25.6°C, 44%



REMARK:

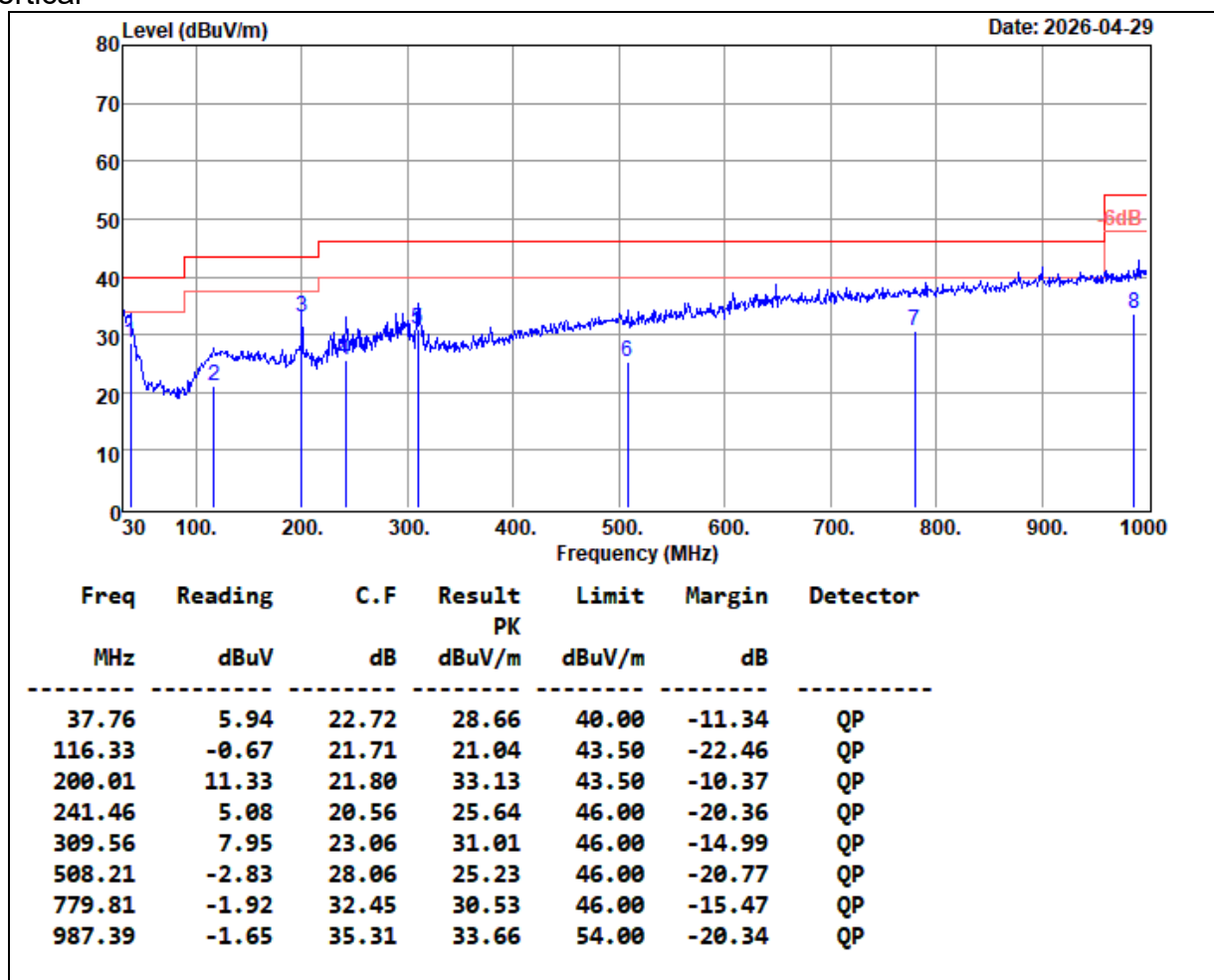
1. Test receiver setting QP(Qusai Peak) 、Average: RBW=9kHz
2. C.F=Antenna Factor+Cable Loss
3. The result basic equation calculation is as follow: Result = Reading + C.F, Margin = Result-Limit
4. The other emission levels were 10dB below the limit
5. The test is standard distance.

30MHz ~ 1GHz

Test Voltage: AC 120V, 60Hz

Product Name	Fully Automatic Direct Drive Turntable	Test Date	2026/04/29
Model Name	CS 629Q	Test By	Ted Huang
Test Mode	TX	Temp & Humidity	25.6°C, 44%

Vertical

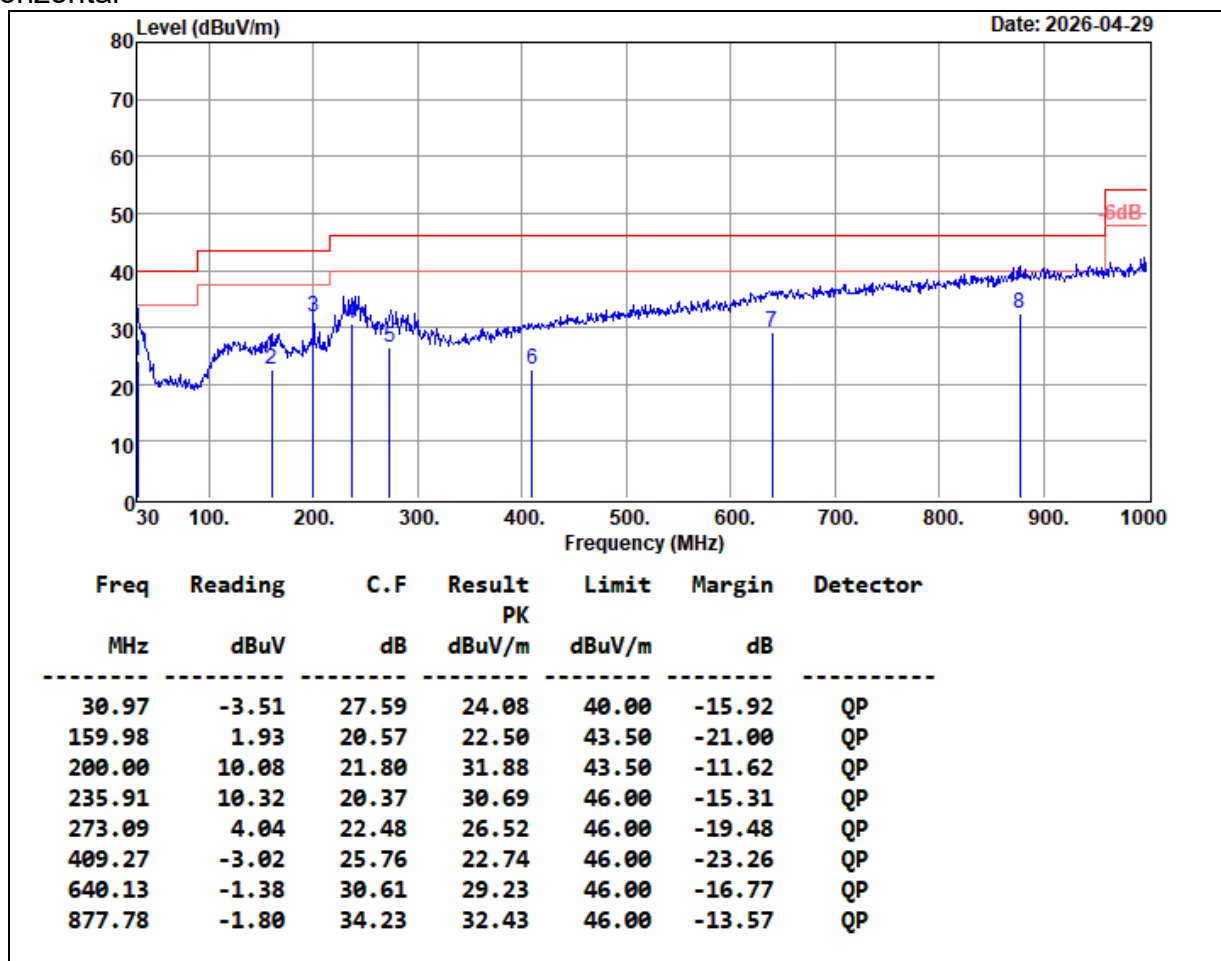


REMARK:

1. Test receiver setting QP(Qusai Peak): RBW=120kHz
2. C.F=Antenna Factor+Cable Loss
3. The result basic equation calculation is as follow: Result = Reading + C.F, Margin = Result-Limit
4. The other emission levels were 10dB below the limit
5. The test distance is 3m.

Product Name	Fully Automatic Direct Drive Turntable	Test Date	2026/04/29
Model Name	CS 629Q	Test By	Ted Huang
Test Mode	TX	Temp & Humidity	25.6°C, 44%

Horizontal



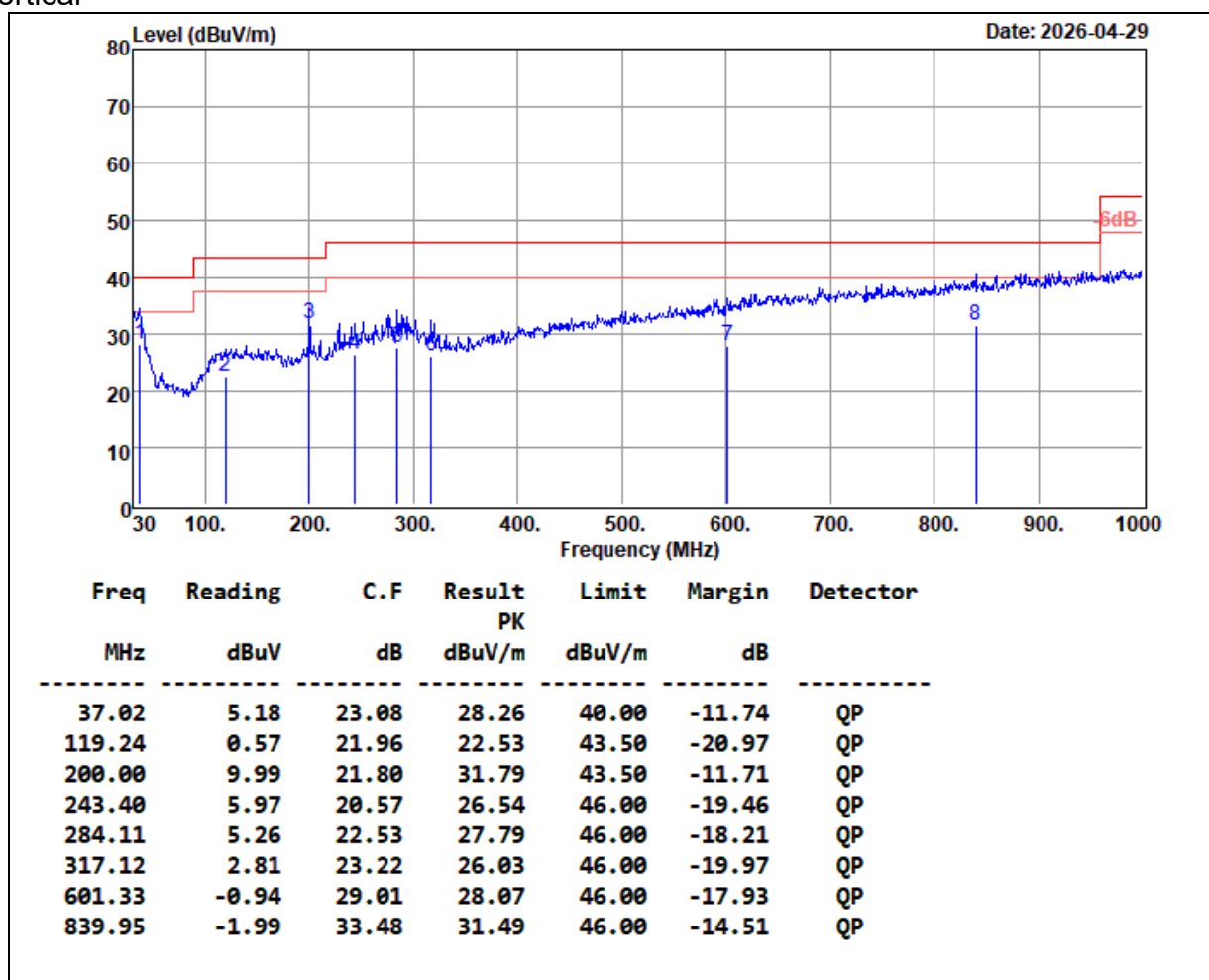
REMARK:

1. Test receiver setting QP(Qusai Peak): RBW=120kHz
2. C.F=Antenna Factor+Cable Loss
3. The result basic equation calculation is as follow: Result = Reading + C.F, Margin = Result-Limit
4. The other emission levels were 10dB below the limit
5. The test distance is 3m.

Test Voltage: AC 120V, 60Hz

Product Name	Fully Automatic Direct Drive Turntable	Test Date	2026/04/29
Model Name	CS 629Q	Test By	Ted Huang
Test Mode	RX	Temp & Humidity	25.6°C, 44%

Vertical

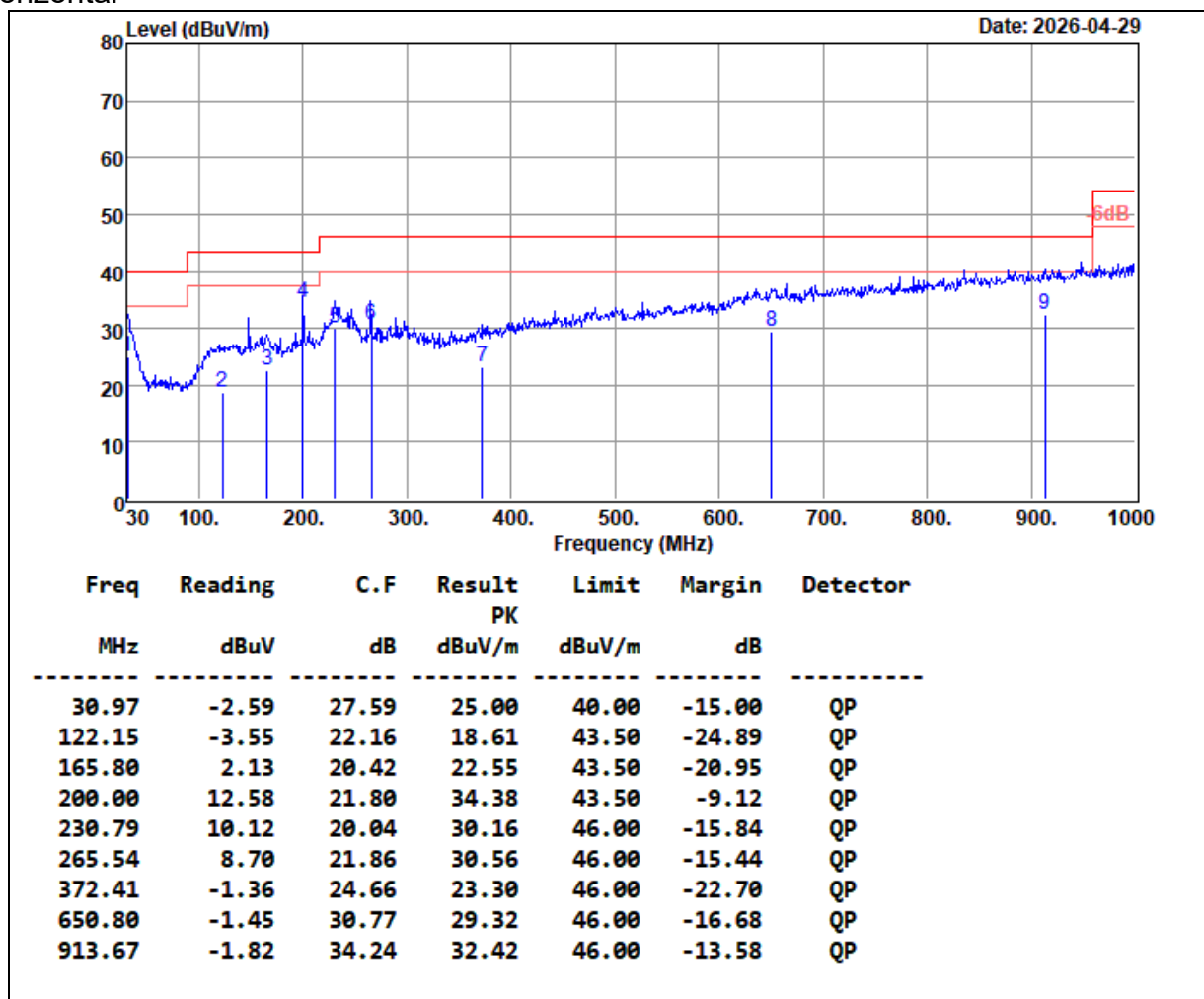


REMARK:

1. Test receiver setting QP(Qusai Peak): RBW=120kHz
2. C.F=Antenna Factor+Cable Loss
3. The result basic equation calculation is as follow: Result = Reading + C.F, Margin = Result-Limit
4. The other emission levels were 10dB below the limit
5. The test distance is 3m.

Product Name	Fully Automatic Direct Drive Turntable	Test Date	2026/04/29
Model Name	CS 629Q	Test By	Ted Huang
Test Mode	RX	Temp & Humidity	25.6°C, 44%

Horizontal



REMARK:

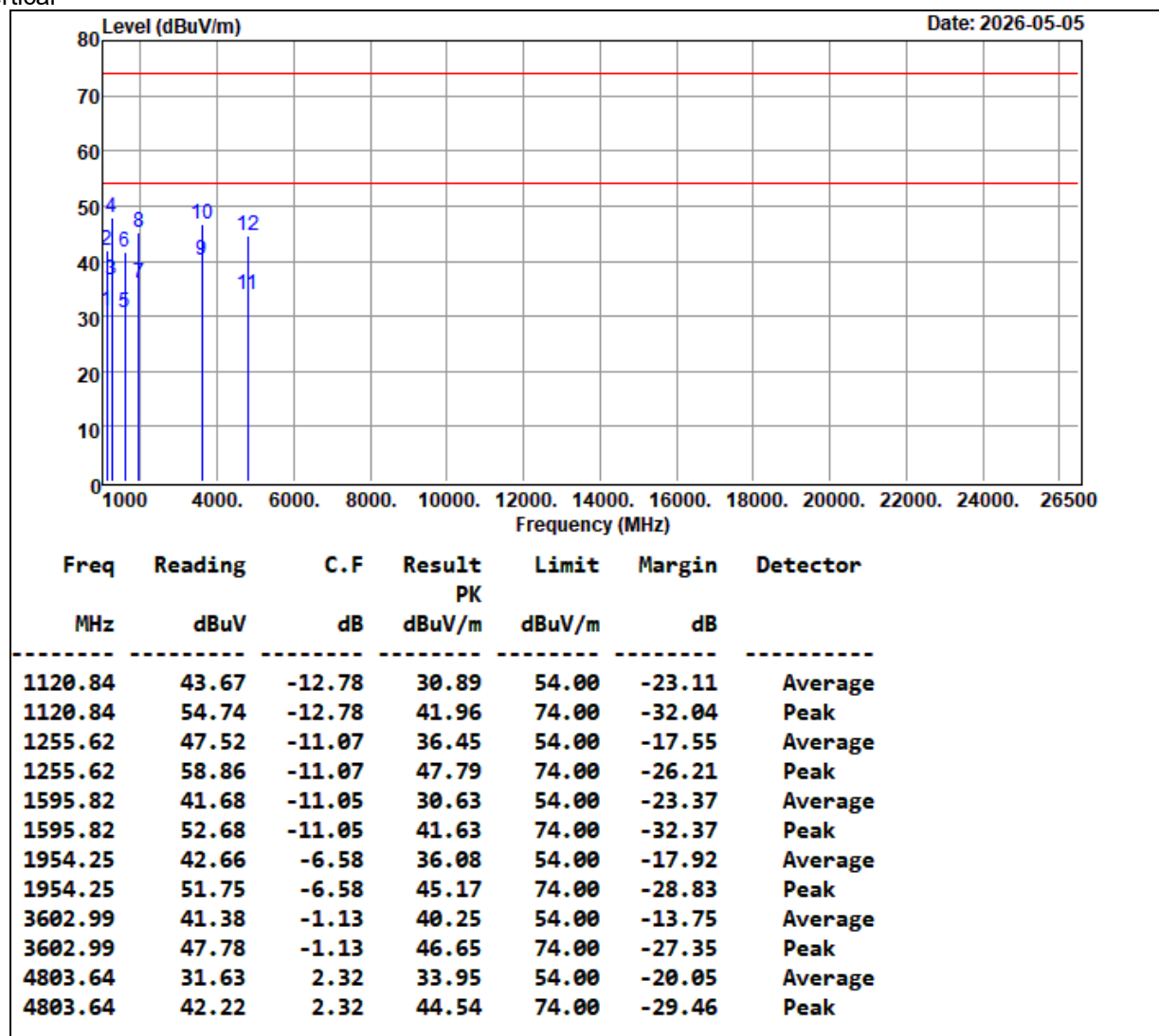
1. Test receiver setting QP(Qusai Peak): RBW=120kHz
2. C.F=Antenna Factor+Cable Loss
3. The result basic equation calculation is as follow: Result = Reading + C.F, Margin = Result-Limit
4. The other emission levels were 10dB below the limit
5. The test distance is 3m.

Report No.: TMTN2604000372NR

9.6.3 TRANSMITTER RADIATED EMISSION ABOVE 1 GHz

Product Name	Fully Automatic Direct Drive Turntable	Test Date	2026/05/05
Model	CS 629Q	Test By	Ted Huang
Test Mode	GFSK(4.0) TX (CH Low)	TEMP& Humidity	25.6°C, 44%

Vertical

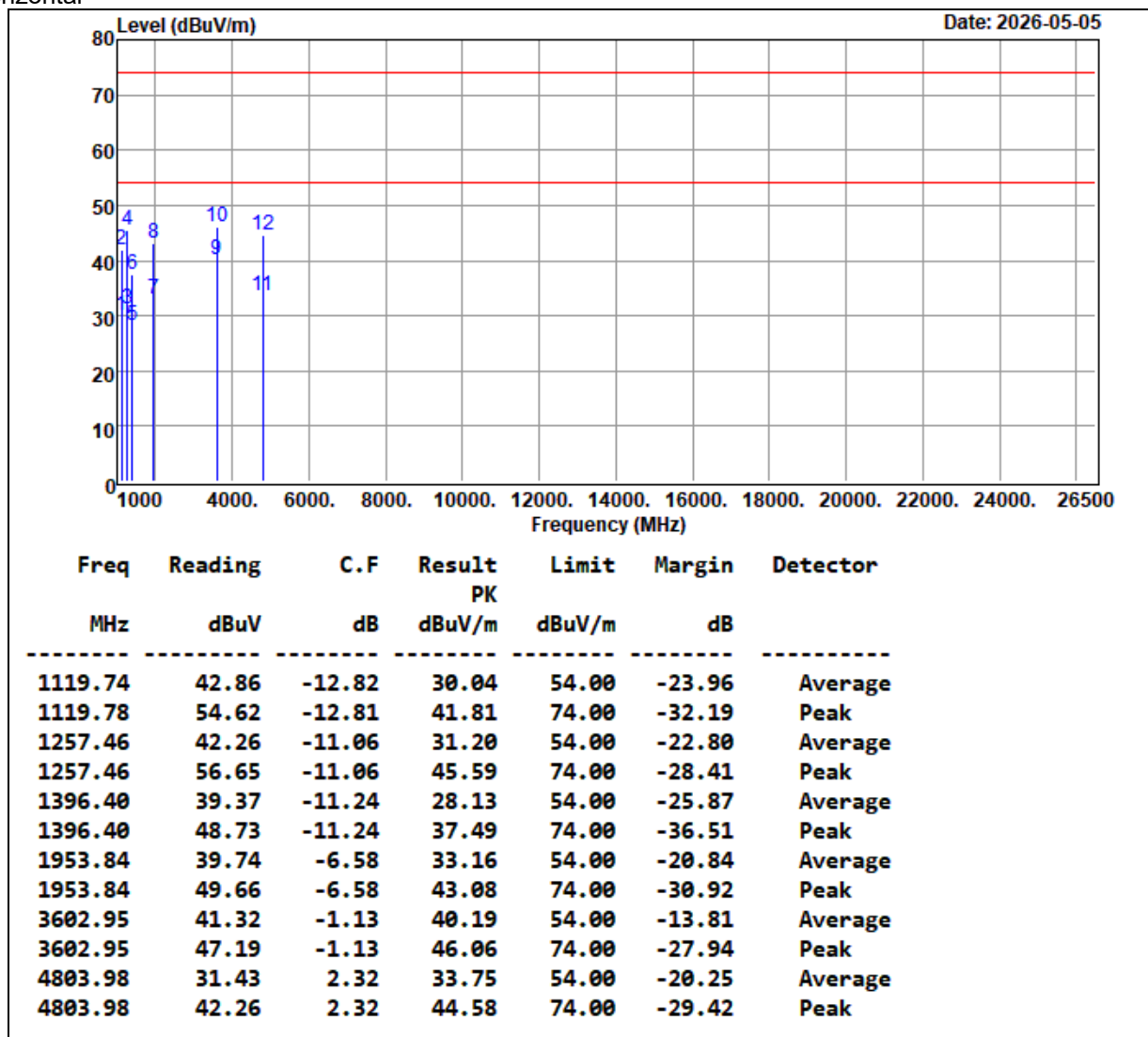


REMARK:

1. Spectrum analyzer setting Peak: RBW=1MHz, VBW=3MHz, Average: RBW=1MHz, VBW $\geq$ 1/T
2. C.F=Antenna Factor+Cable Loss-Preamplifier gain+2.4GHz~2.5GHz Filter Insertion Loss
3. The result basic equation calculation is as follow: Result = Reading + C.F, Margin = Result-Limit
4. The other emission levels were 10dB below the limit
5. The test distance is 3m.

Product Name	Fully Automatic Direct Drive Turntable	Test Date	2026/05/05
Model	CS 629Q	Test By	Ted Huang
Test Mode	GFSK(4.0) TX (CH Low)	TEMP& Humidity	25.6°C, 44%

Horizontal

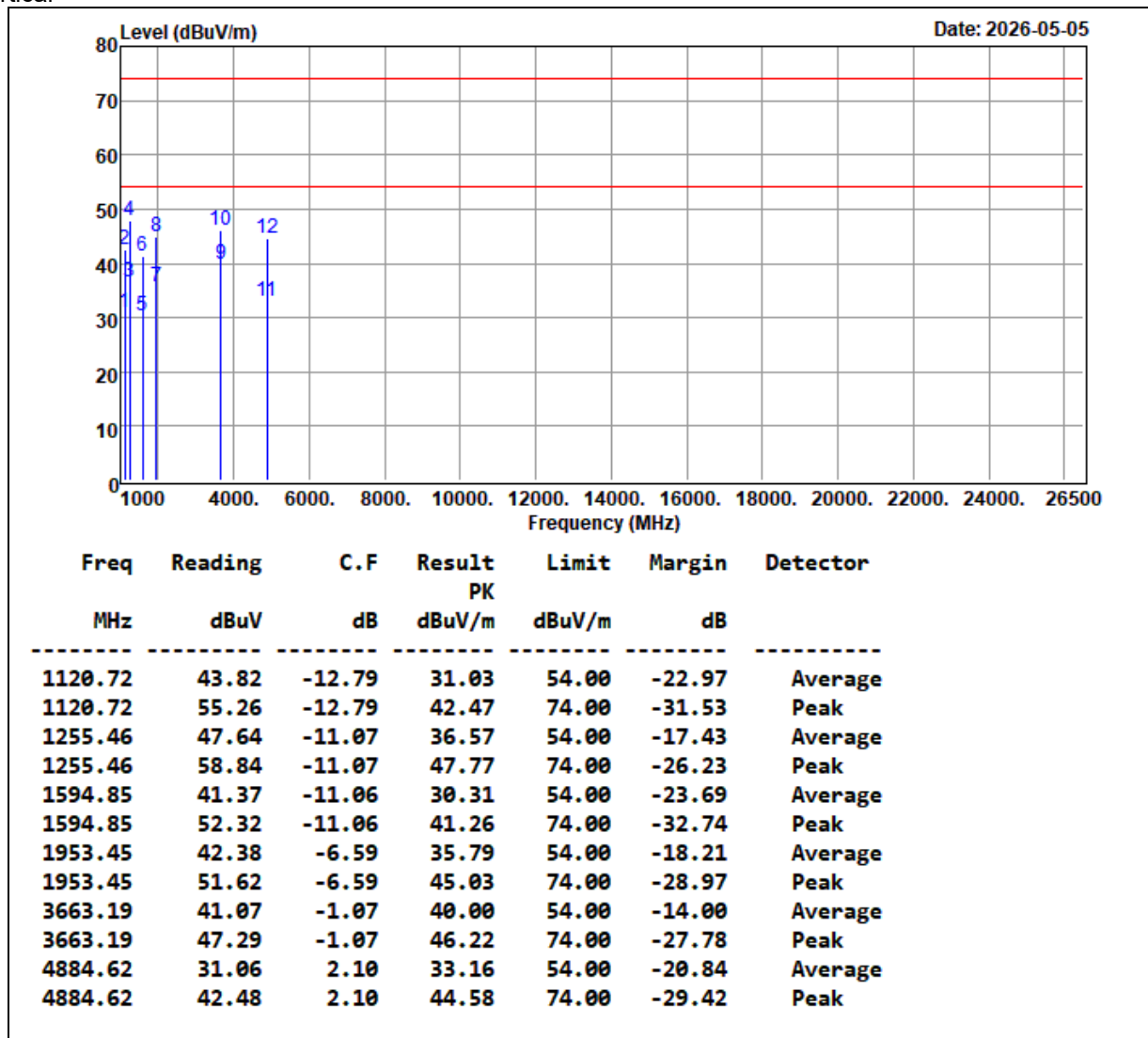


REMARK:

1. Spectrum analyzer setting Peak: RBW=1MHz, VBW=3MHz, Average: RBW=1MHz, VBW $\geq$ 1/T
2. C.F=Antenna Factor+Cable Loss-Preamplifier gain+2.4GHz~2.5GHz Filter Insertion Loss
3. The result basic equation calculation is as follow: Result = Reading + C.F, Margin = Result-Limit
4. The other emission levels were 10dB below the limit
5. The test distance is 3m.

Product Name	Fully Automatic Direct Drive Turntable	Test Date	2026/05/05
Model	CS 629Q	Test By	Ted Huang
Test Mode	GFSK(4.0) TX (CH Middle)	TEMP& Humidity	25.6°C, 44%

Vertical

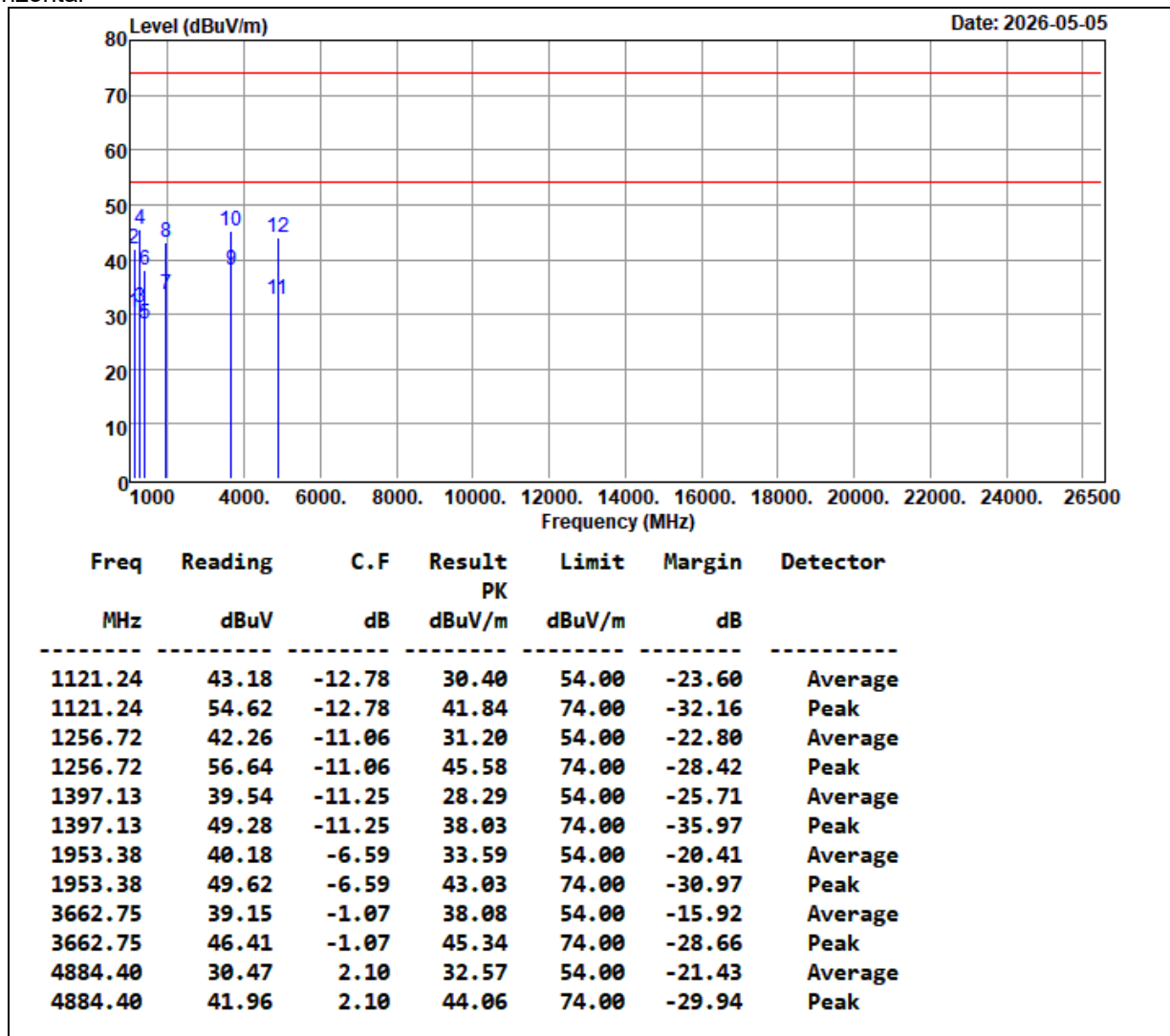


REMARK:

1. Spectrum analyzer setting Peak: RBW=1MHz, VBW=3MHz, Average: RBW=1MHz, VBW $\geq$ 1/T
2. C.F=Antenna Factor+Cable Loss-Preamplifier gain+2.4GHz~2.5GHz Filter Insertion Loss
3. The result basic equation calculation is as follow: Result = Reading + C.F, Margin = Result-Limit
4. The other emission levels were 10dB below the limit
5. The test distance is 3m.

Product Name	Fully Automatic Direct Drive Turntable	Test Date	2026/05/05
Model	CS 629Q	Test By	Ted Huang
Test Mode	GFSK(4.0) TX (CH Middle)	TEMP& Humidity	25.6°C, 44%

Horizontal

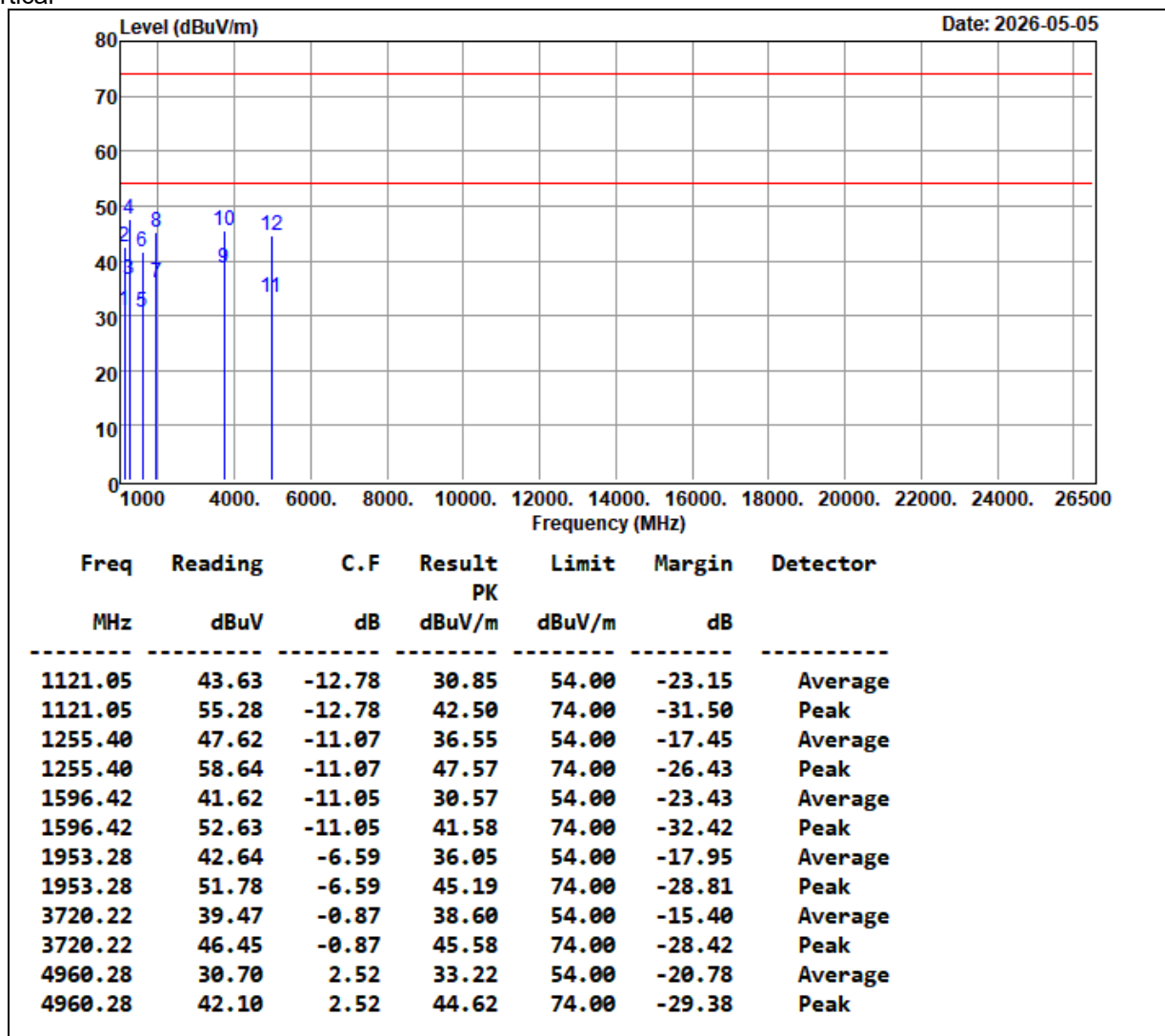


REMARK:

1. Spectrum analyzer setting Peak: RBW=1MHz, VBW=3MHz, Average: RBW=1MHz, VBW $\geq$ 1/T
2. C.F=Antenna Factor+Cable Loss-Preamplifier gain+2.4GHz~2.5GHz Filter Insertion Loss
3. The result basic equation calculation is as follow: Result = Reading + C.F, Margin = Result-Limit
4. The other emission levels were 10dB below the limit
5. The test distance is 3m.

Product Name	Fully Automatic Direct Drive Turntable	Test Date	2026/05/05
Model	CS 629Q	Test By	Ted Huang
Test Mode	GFSK(4.0) TX (CH High)	TEMP& Humidity	25.6°C, 44%

Vertical

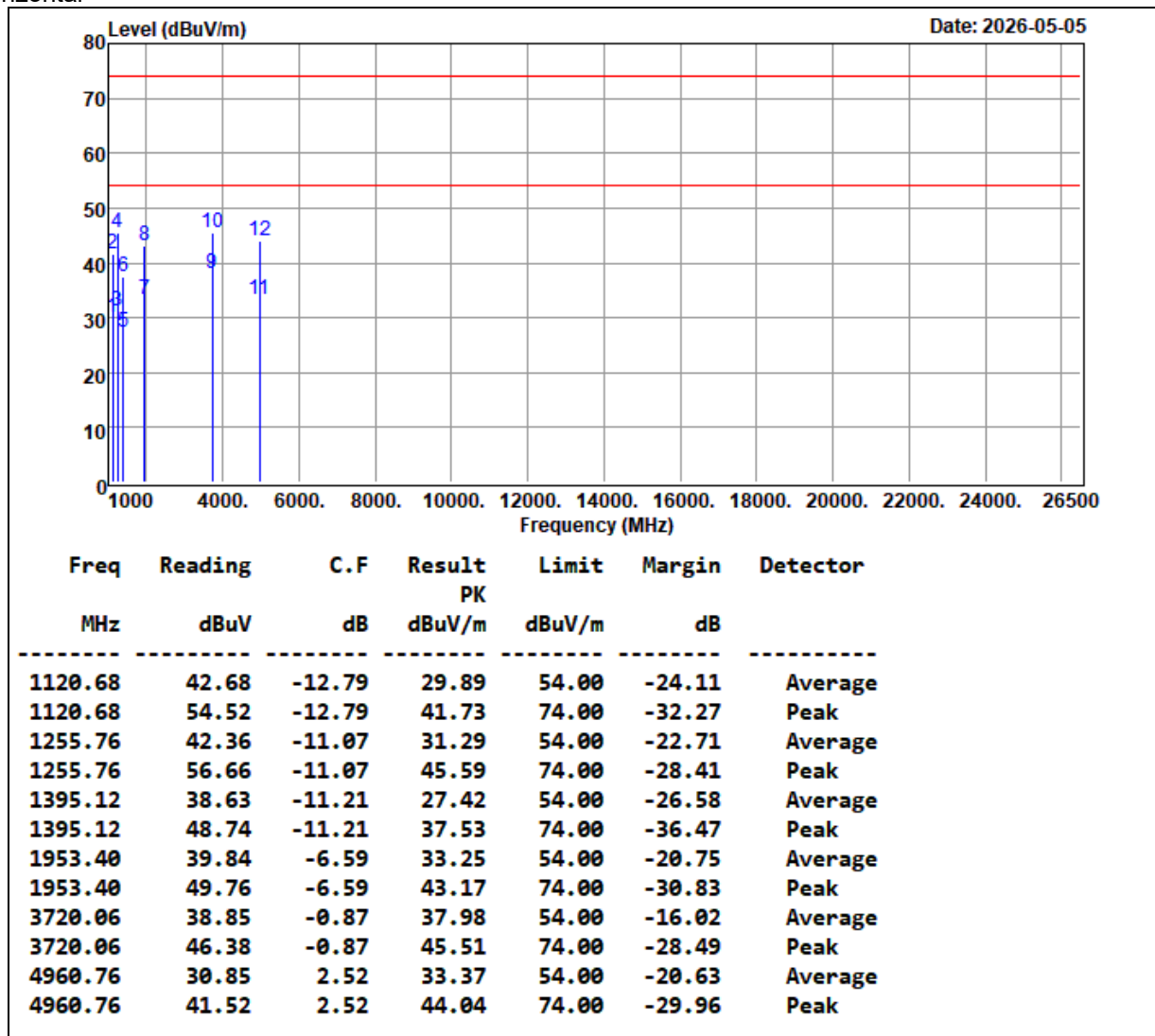


REMARK:

1. Spectrum analyzer setting Peak: RBW=1MHz, VBW=3MHz, Average: RBW=1MHz, VBW $\geq$ 1/T
2. C.F=Antenna Factor+Cable Loss-Preamplifier gain+2.4GHz~2.5GHz Filter Insertion Loss
3. The result basic equation calculation is as follow: Result = Reading + C.F, Margin = Result-Limit
4. The other emission levels were 10dB below the limit
5. The test distance is 3m.

Product Name	Fully Automatic Direct Drive Turntable	Test Date	2026/05/05
Model	CS 629Q	Test By	Ted Huang
Test Mode	GFSK(4.0) TX (CH High)	TEMP& Humidity	25.6°C, 44%

Horizontal

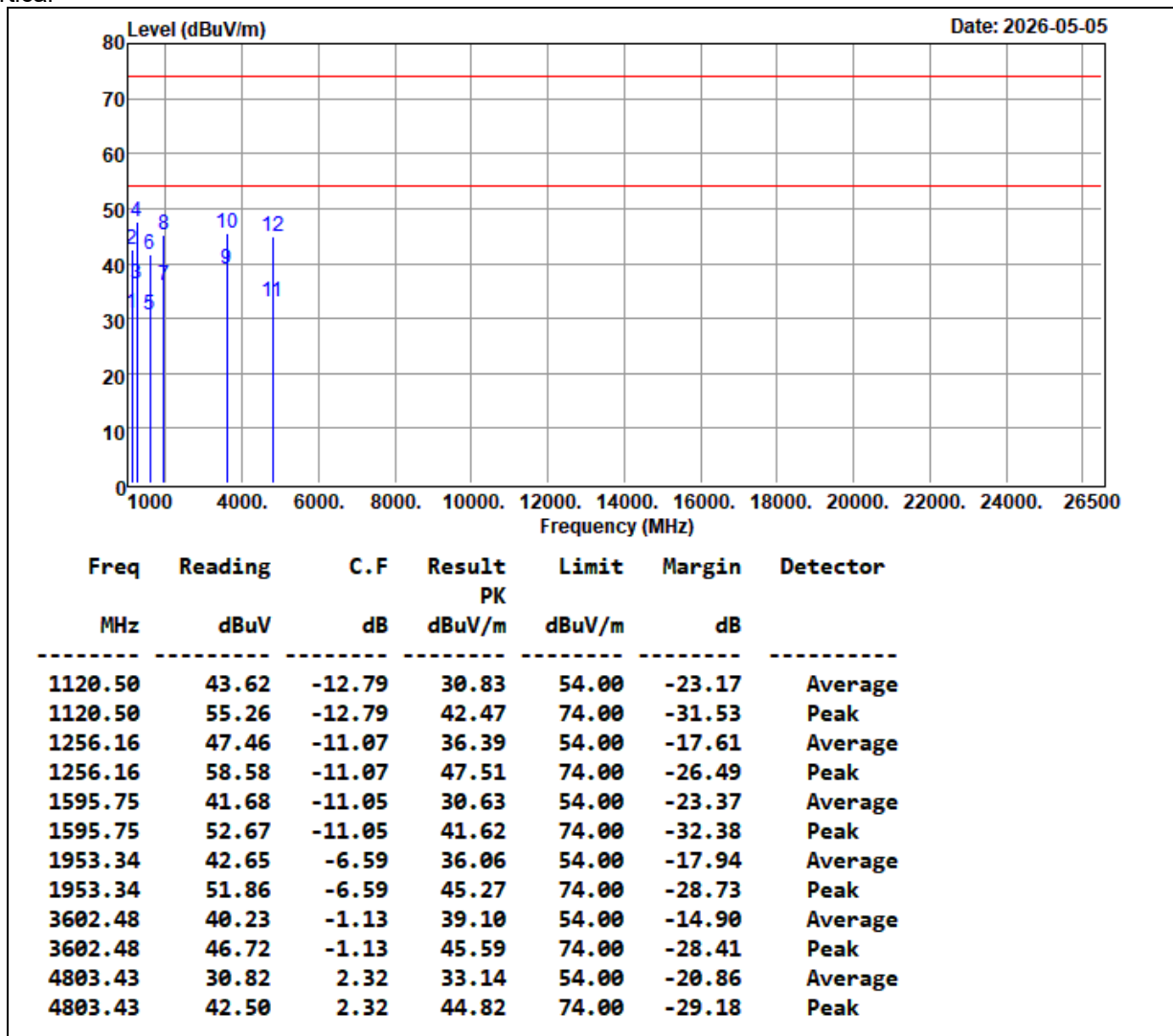


REMARK:

1. Spectrum analyzer setting Peak: RBW=1MHz, VBW=3MHz, Average: RBW=1MHz, VBW $\geq$ 1/T
2. C.F=Antenna Factor+Cable Loss-Preamplifier gain+2.4GHz~2.5GHz Filter Insertion Loss
3. The result basic equation calculation is as follow: Result = Reading + C.F, Margin = Result-Limit
4. The other emission levels were 10dB below the limit
5. The test distance is 3m.

Product Name	Fully Automatic Direct Drive Turntable	Test Date	2026/05/05
Model	CS 629Q	Test By	Ted Huang
Test Mode	GFSK(5.0) TX (CH Low)	TEMP& Humidity	25.6°C, 44%

Vertical

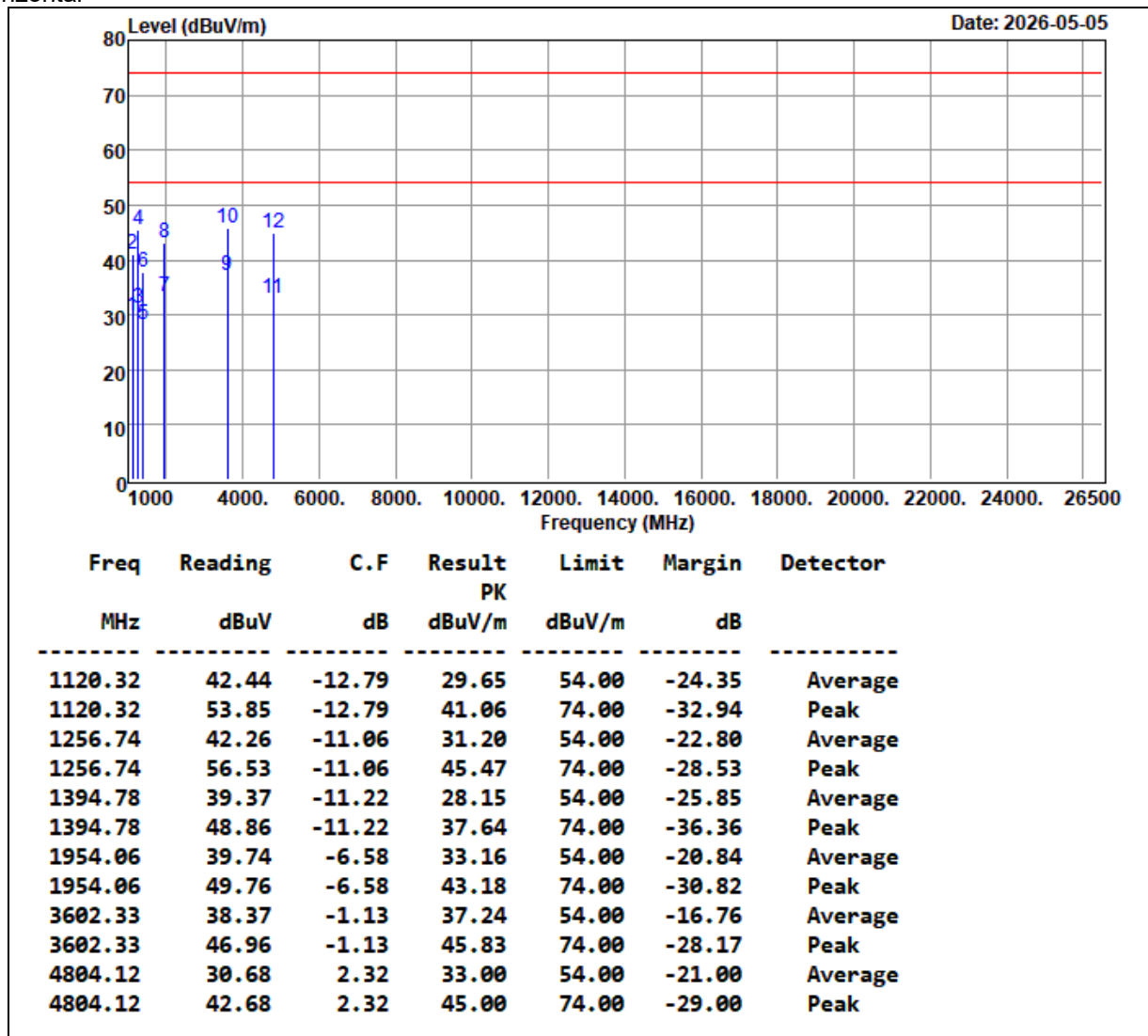


REMARK:

1. Spectrum analyzer setting Peak: RBW=1MHz, VBW=3MHz, Average: RBW=1MHz, VBW≥1/T
2. C.F=Antenna Factor+Cable Loss-Preamplifier gain+2.4GHz~2.5GHz Filter Insertion Loss
3. The result basic equation calculation is as follow: Result = Reading + C.F, Margin = Result-Limit
4. The other emission levels were 10dB below the limit
5. The test distance is 3m.

Product Name	Fully Automatic Direct Drive Turntable	Test Date	2026/05/05
Model	CS 629Q	Test By	Ted Huang
Test Mode	GFSK(5.0) TX (CH Low)	TEMP& Humidity	25.6°C, 44%

Horizontal

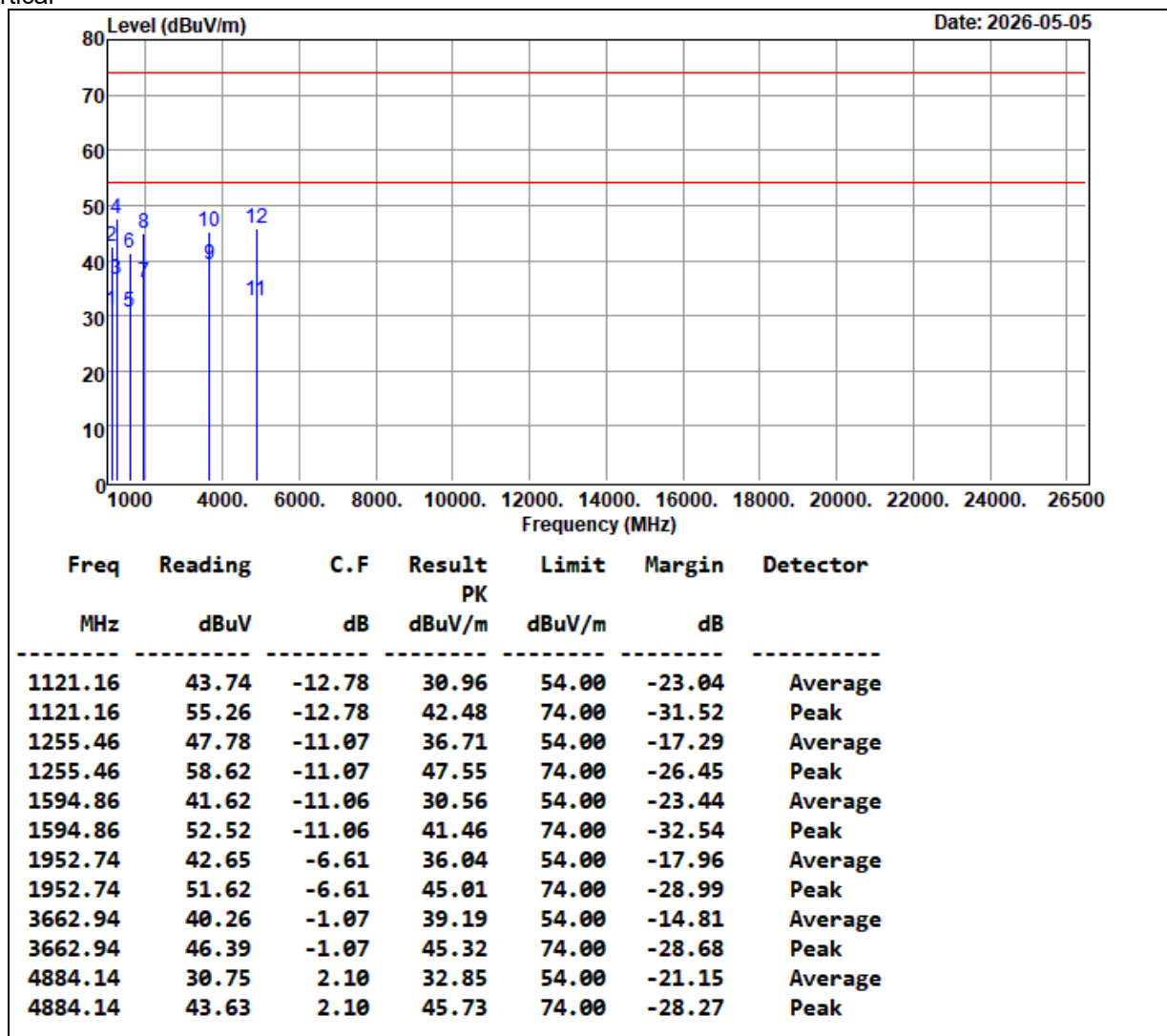


REMARK:

1. Spectrum analyzer setting Peak: RBW=1MHz, VBW=3MHz, Average: RBW=1MHz, VBW≥1/T
2. C.F=Antenna Factor+Cable Loss-Preamplifier gain+2.4GHz~2.5GHz Filter Insertion Loss
3. The result basic equation calculation is as follow: Result = Reading + C.F, Margin = Result-Limit
4. The other emission levels were 10dB below the limit
5. The test distance is 3m.

Product Name	Fully Automatic Direct Drive Turntable	Test Date	2026/05/05
Model	CS 629Q	Test By	Ted Huang
Test Mode	GFSK(5.0) TX (CH Middle)	TEMP& Humidity	25.6°C, 44%

Vertical

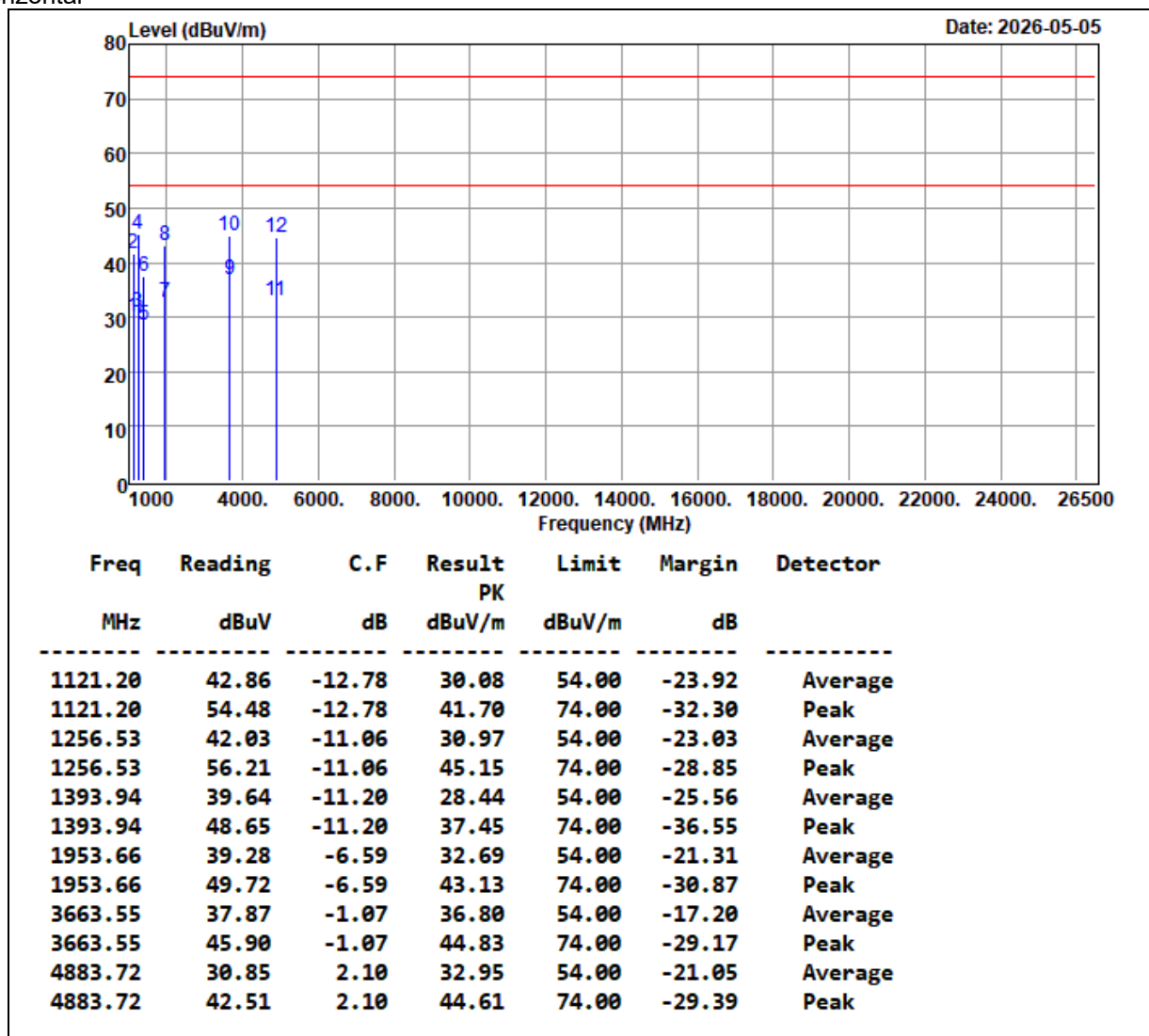


REMARK:

1. Spectrum analyzer setting Peak: RBW=1MHz, VBW=3MHz, Average: RBW=1MHz, VBW≥1/T
2. C.F=Antenna Factor+Cable Loss-Preamplifier gain+2.4GHz~2.5GHz Filter Insertion Loss
3. The result basic equation calculation is as follow: Result = Reading + C.F, Margin = Result-Limit
4. The other emission levels were 10dB below the limit
5. The test distance is 3m.

Product Name	Fully Automatic Direct Drive Turntable	Test Date	2026/05/05
Model	CS 629Q	Test By	Ted Huang
Test Mode	GFSK(5.0) TX (CH Middle)	TEMP& Humidity	25.6°C, 44%

Horizontal

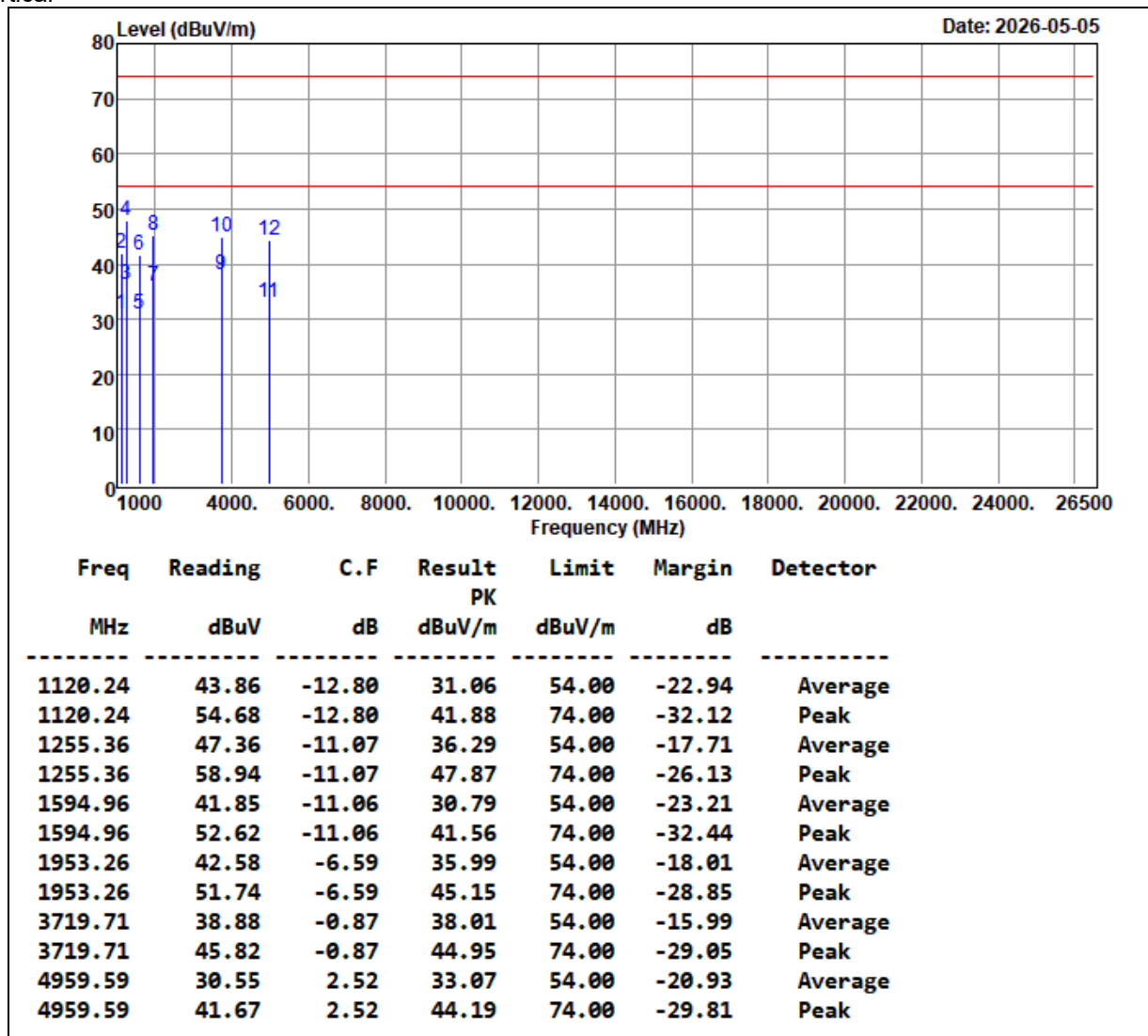


REMARK:

1. Spectrum analyzer setting Peak: RBW=1MHz, VBW=3MHz, Average: RBW=1MHz, VBW≥1/T
2. C.F=Antenna Factor+Cable Loss-Preamplifier gain+2.4GHz~2.5GHz Filter Insertion Loss
3. The result basic equation calculation is as follow: Result = Reading + C.F, Margin = Result-Limit
4. The other emission levels were 10dB below the limit
5. The test distance is 3m.

Product Name	Fully Automatic Direct Drive Turntable	Test Date	2026/05/05
Model	CS 629Q	Test By	Ted Huang
Test Mode	GFSK(5.0) TX (CH High)	TEMP& Humidity	25.6°C, 44%

Vertical

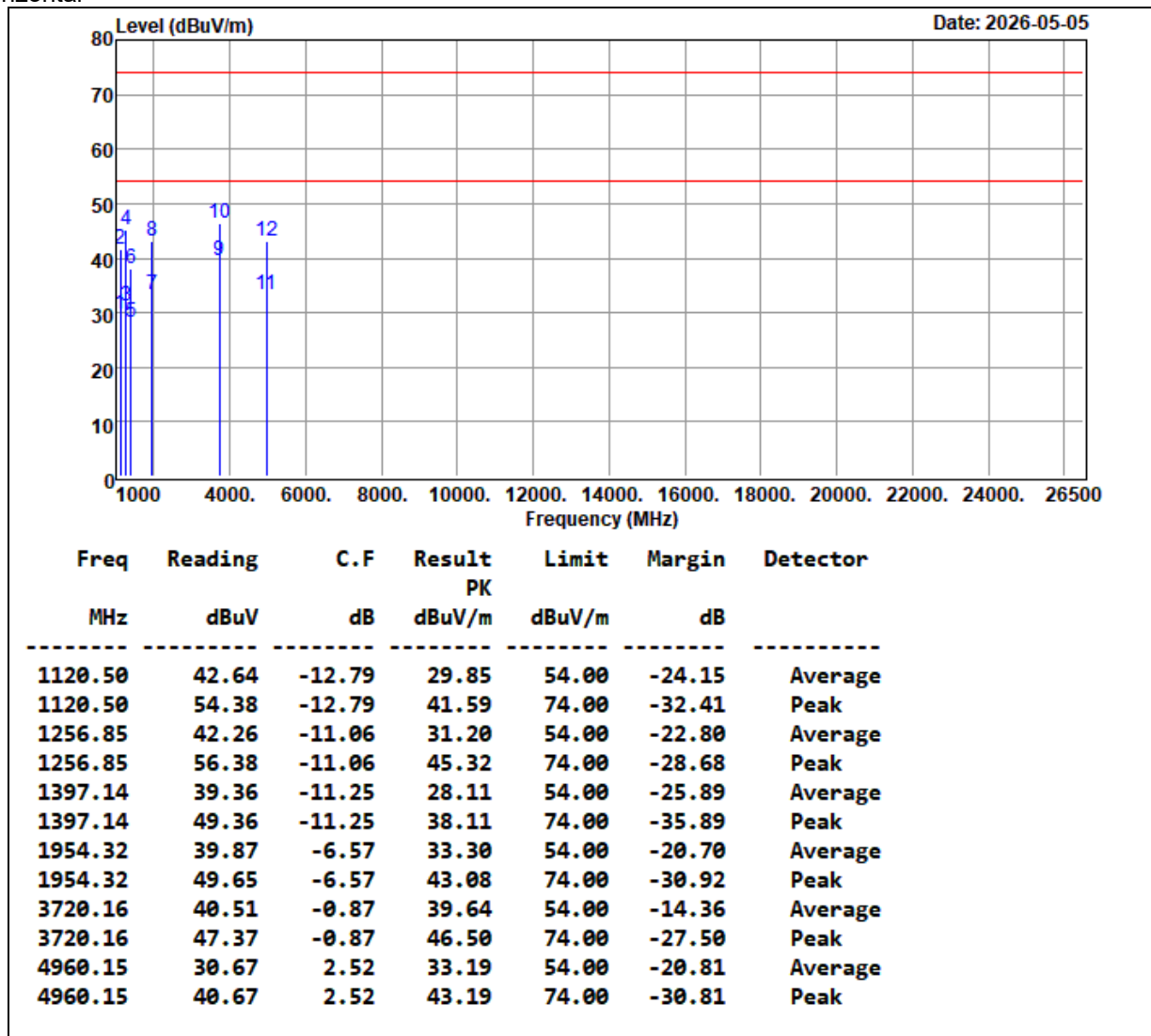


REMARK:

1. Spectrum analyzer setting Peak: RBW=1MHz, VBW=3MHz, Average: RBW=1MHz, VBW $\geq$ 1/T
2. C.F=Antenna Factor+Cable Loss-Preamplifier gain+2.4GHz~2.5GHz Filter Insertion Loss
3. The result basic equation calculation is as follow: Result = Reading + C.F, Margin = Result-Limit
4. The other emission levels were 10dB below the limit
5. The test distance is 3m.

Product Name	Fully Automatic Direct Drive Turntable	Test Date	2026/05/05
Model	CS 629Q	Test By	Ted Huang
Test Mode	GFSK(5.0) TX (CH High)	TEMP& Humidity	25.6°C, 44%

Horizontal

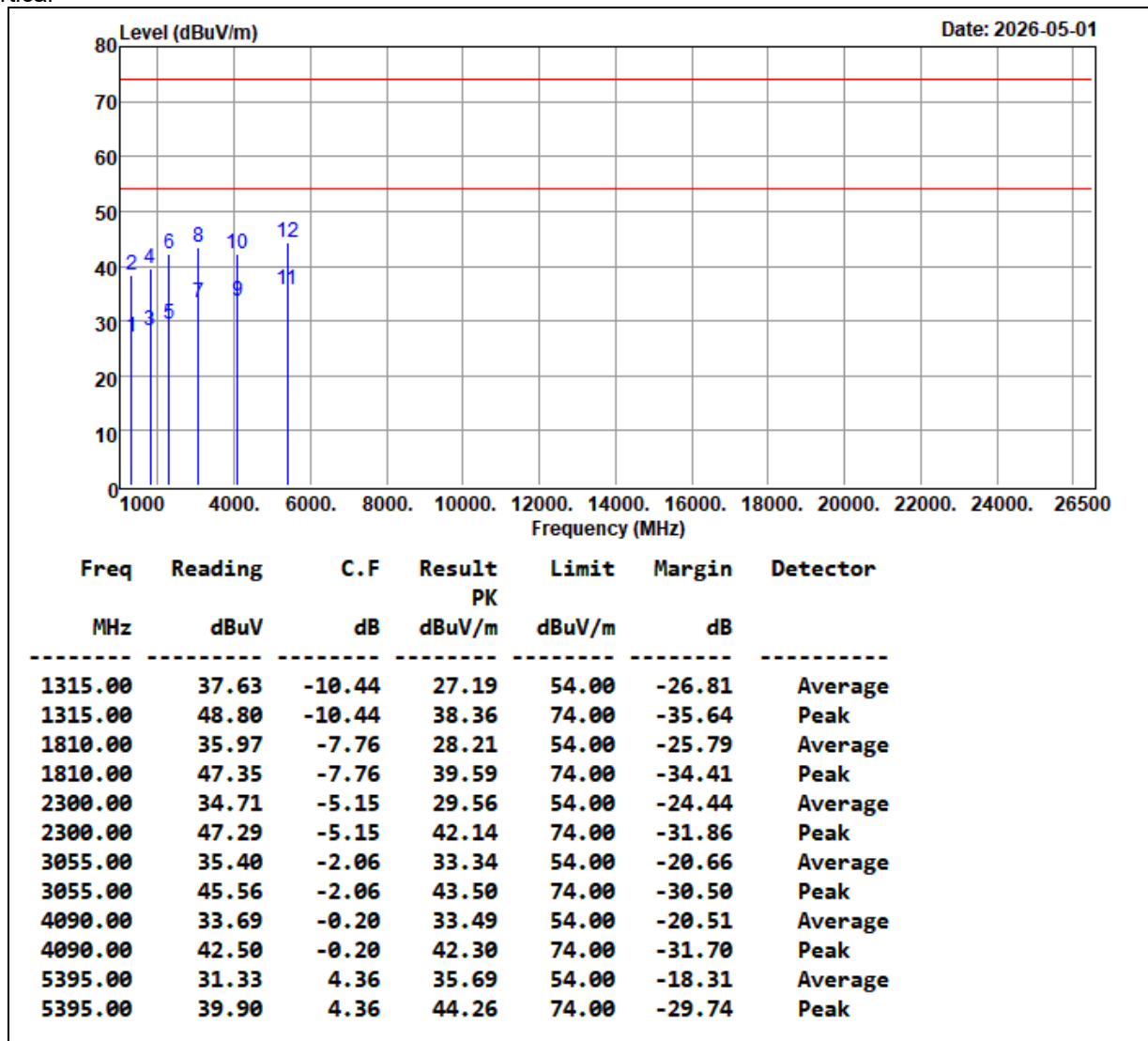


REMARK:

1. Spectrum analyzer setting Peak: RBW=1MHz, VBW=3MHz, Average: RBW=1MHz, VBW≥1/T
2. C.F=Antenna Factor+Cable Loss-Preamplifier gain+2.4GHz~2.5GHz Filter Insertion Loss
3. The result basic equation calculation is as follow: Result = Reading + C.F, Margin = Result-Limit
4. The other emission levels were 10dB below the limit
5. The test distance is 3m.

Product Name	Fully Automatic Direct Drive Turntable	Test Date	2026/05/01
Model	CS 629Q	Test By	Ted Huang
Test Mode	RX	TEMP& Humidity	25.6°C, 44%

Vertical

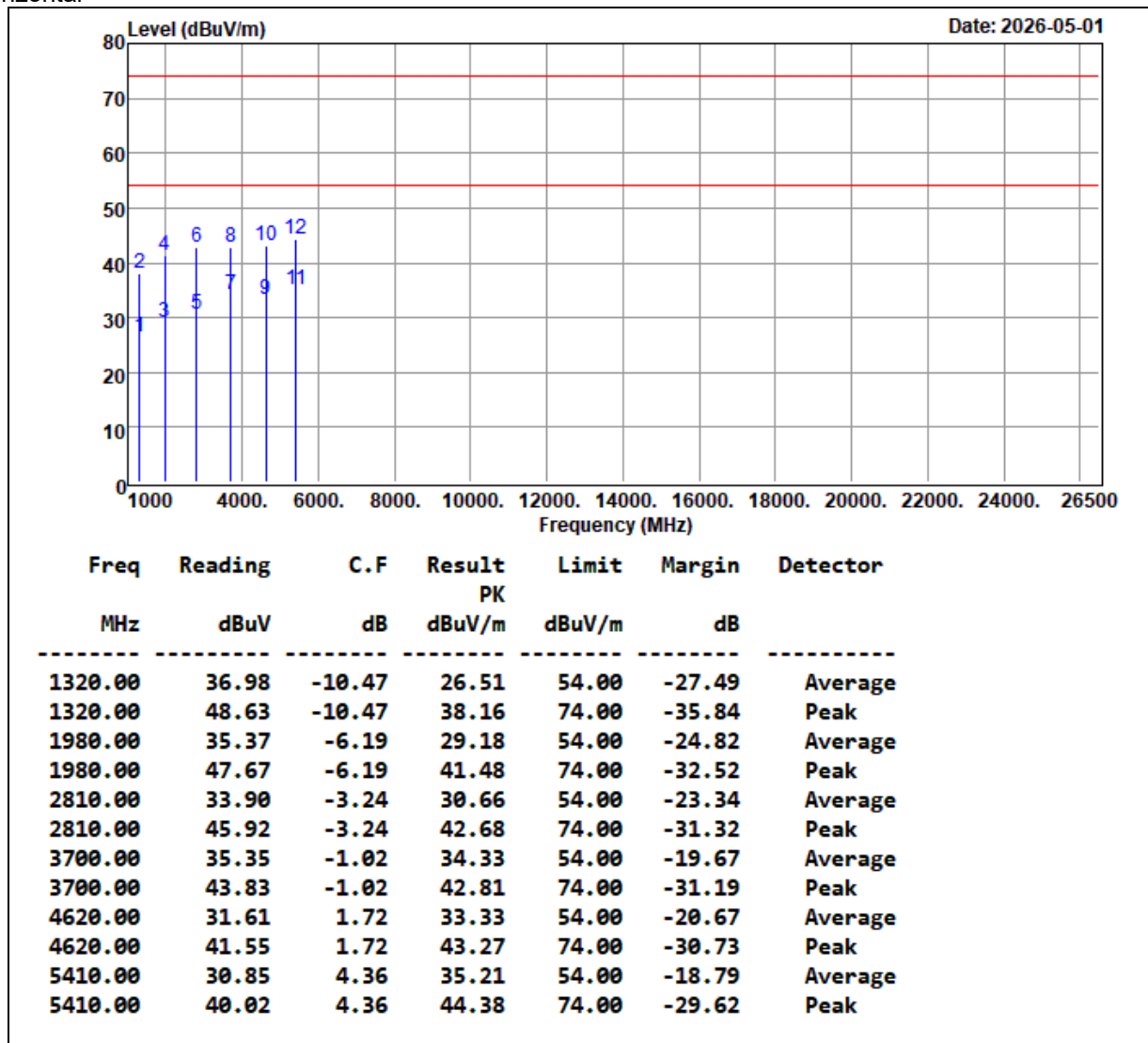


REMARK:

1. Spectrum analyzer setting Peak: RBW=1MHz, VBW=3MHz, Average: RBW=1MHz, VBW $\geq$ 1/T
2. C.F=Antenna Factor+Cable Loss-Preamplifier gain+2.4GHz~2.5GHz Filter Insertion Loss
3. The result basic equation calculation is as follow: Result = Reading + C.F, Margin = Result-Limit
4. The other emission levels were 10dB below the limit
5. The test distance is 3m.

Product Name	Fully Automatic Direct Drive Turntable	Test Date	2026/05/01
Model	CS 629Q	Test By	Ted Huang
Test Mode	RX	TEMP& Humidity	25.6°C, 44%

Horizontal



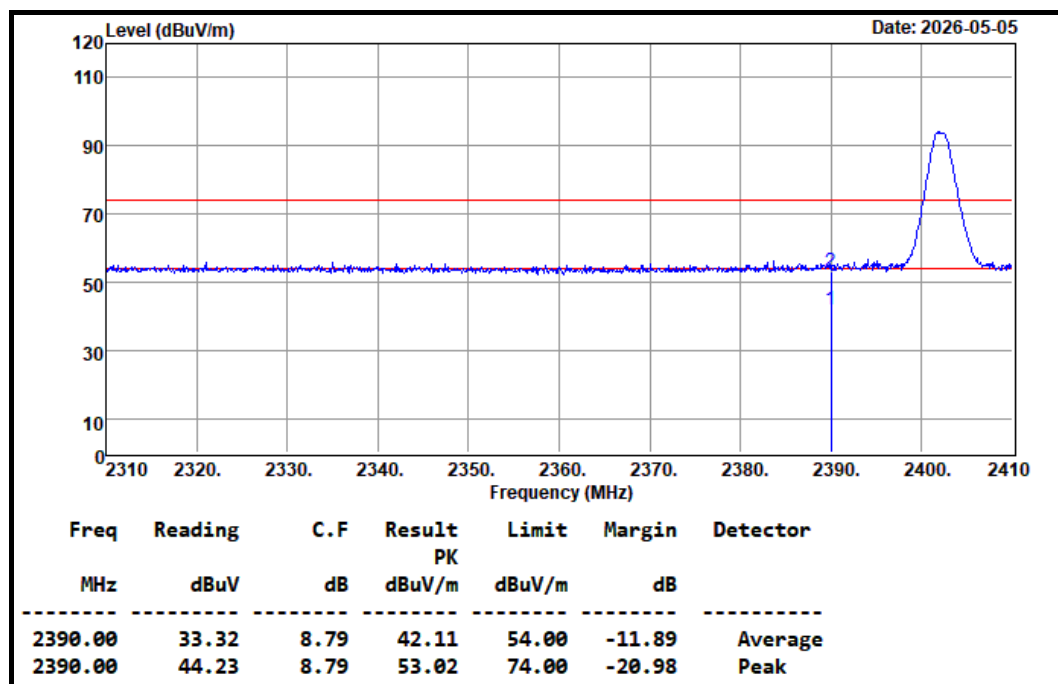
REMARK:

1. Spectrum analyzer setting Peak: RBW=1MHz, VBW=3MHz, Average: RBW=1MHz, VBW $\geq$ 1/T
2. C.F=Antenna Factor+Cable Loss-Preamplifier gain+2.4GHz~2.5GHz Filter Insertion Loss
3. The result basic equation calculation is as follow: Result = Reading + C.F, Margin = Result-Limit
4. The other emission levels were 10dB below the limit
5. The test distance is 3m.

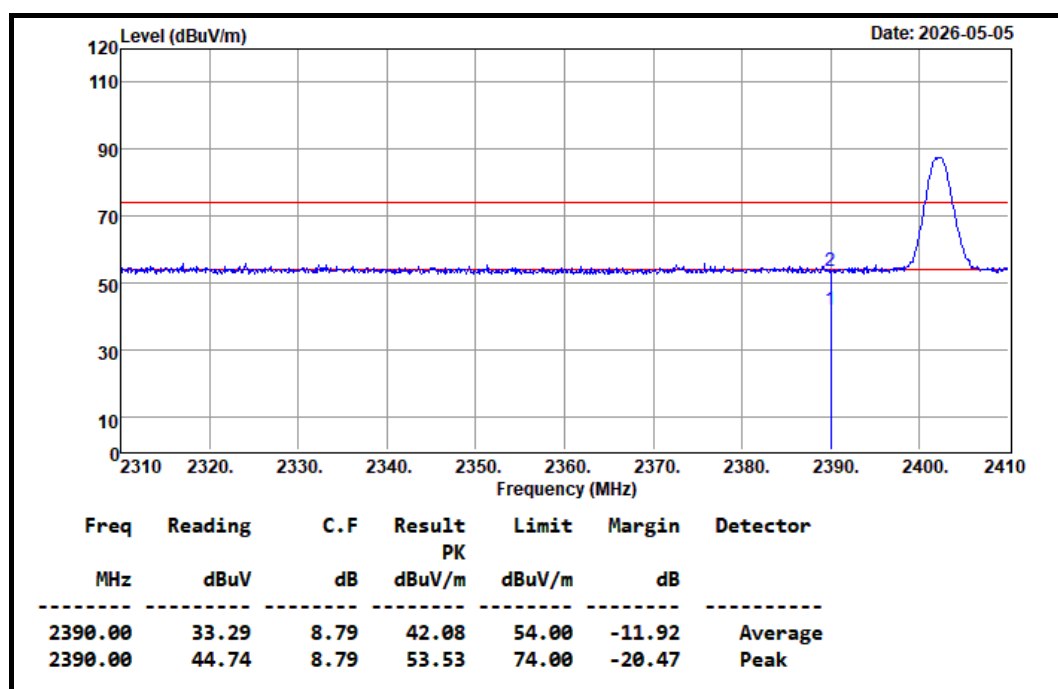
9.6.4 RESTRICTED BAND EDGES

Product Name	Fully Automatic Direct Drive Turntable	Test Date	2026/05/05
Model	CS 629Q	Test By	Ted Huang
Test Mode	CH Low TX / BLE 1M	TEMP& Humidity	25.6°C, 44%

Horizontal

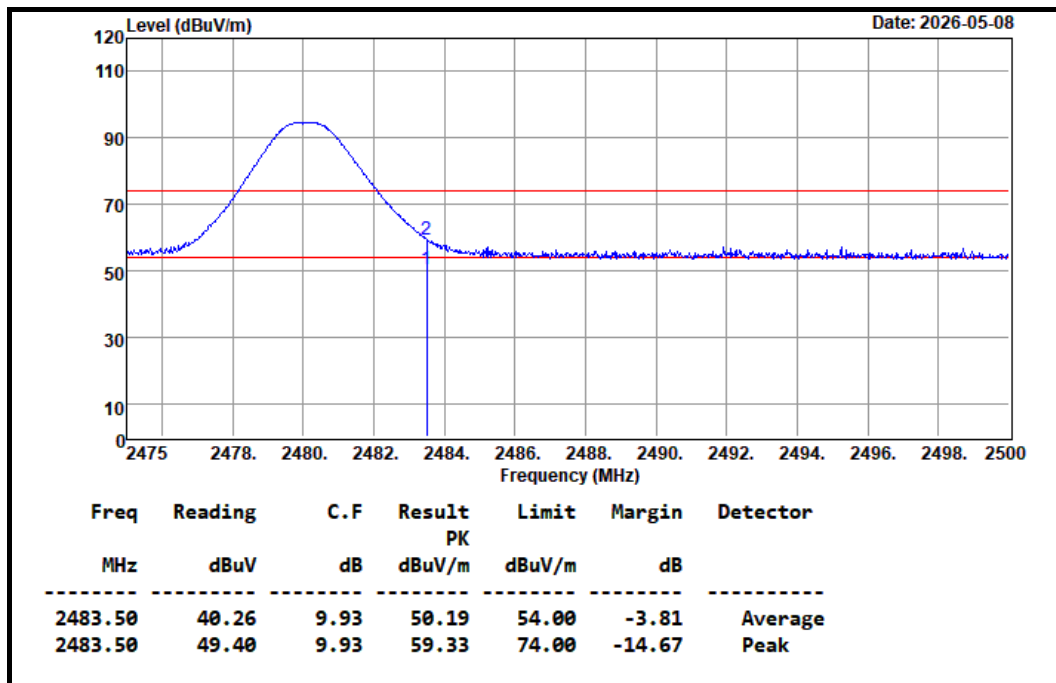


Vertical

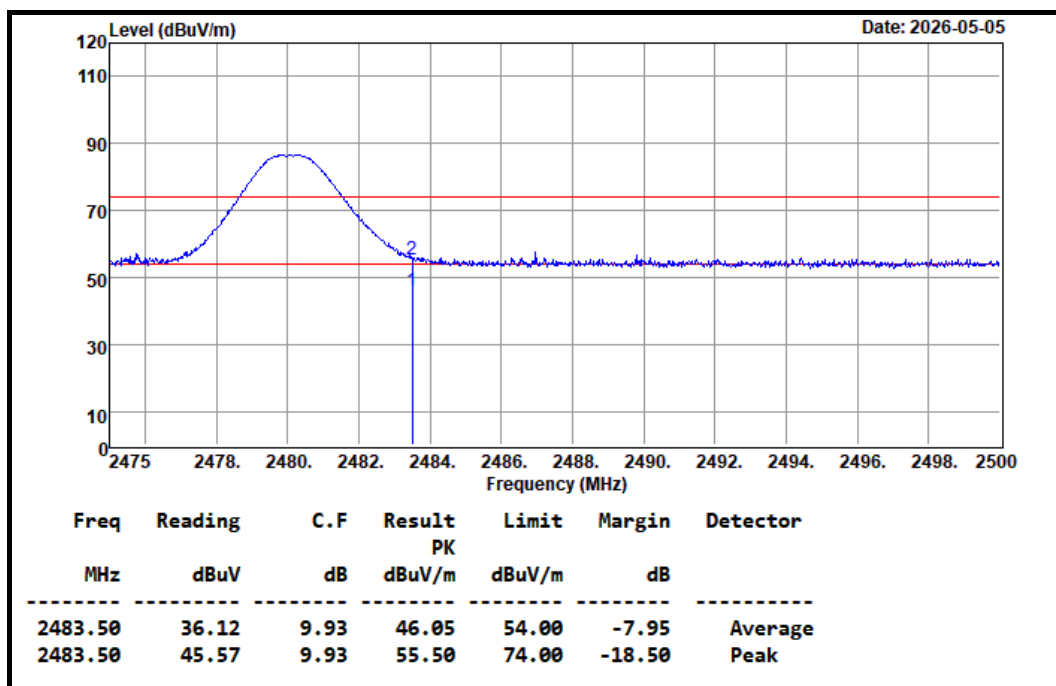


Product Name	Fully Automatic Direct Drive Turntable	Test Date	2026/05/05
Model	CS 629Q	Test By	Ted Huang
Test Mode	CH High TX / BLE 1M	TEMP& Humidity	25.6°C, 44%

Horizontal

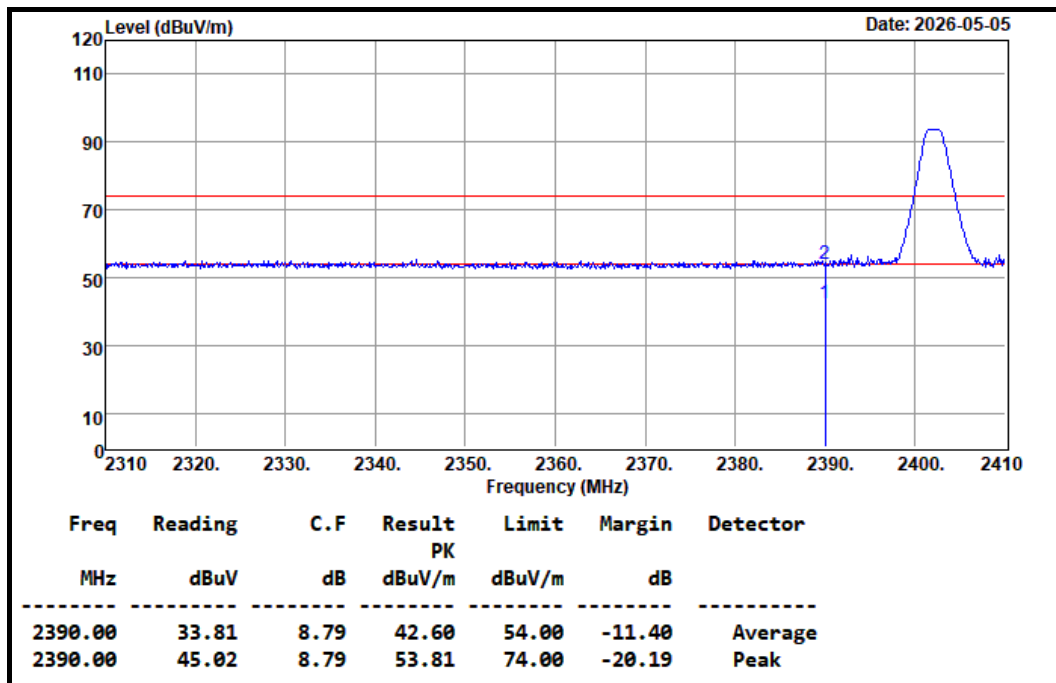


Vertical

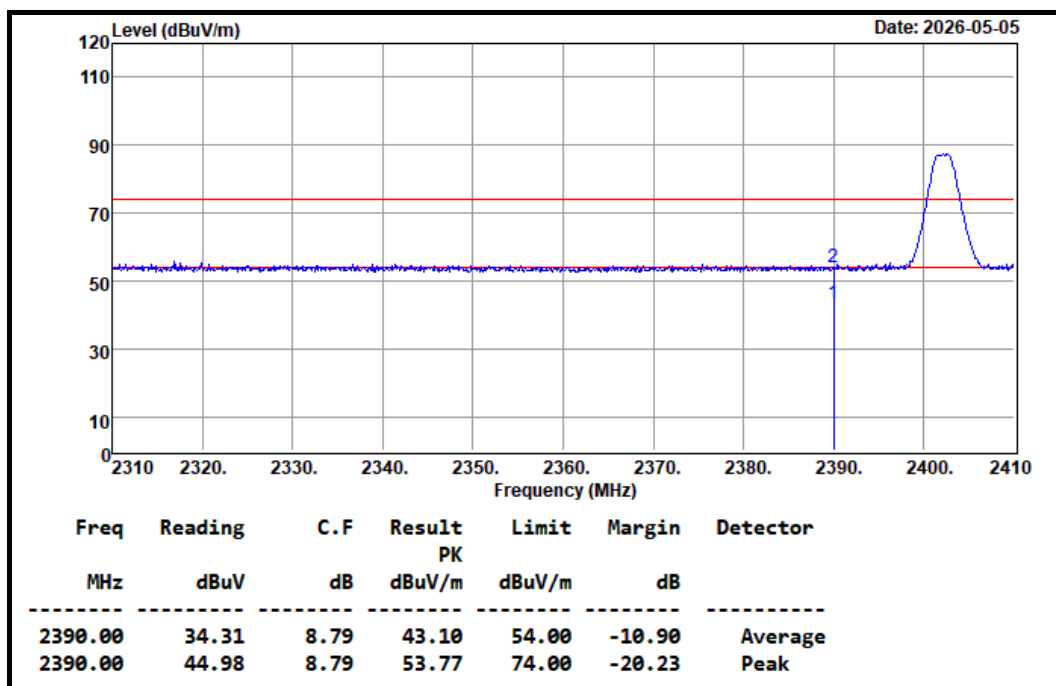


Product Name	Fully Automatic Direct Drive Turntable	Test Date	2026/05/05
Model	CS 629Q	Test By	Ted Huang
Test Mode	CH Low TX / BLE 2M	TEMP& Humidity	25.6°C, 44%

Horizontal

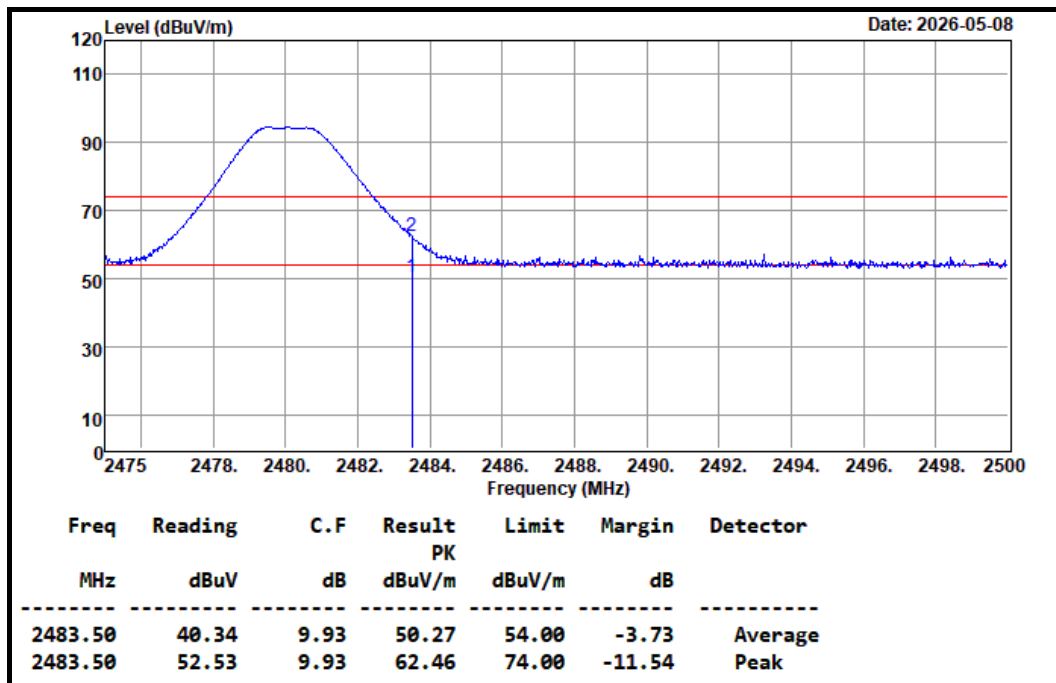


Vertical

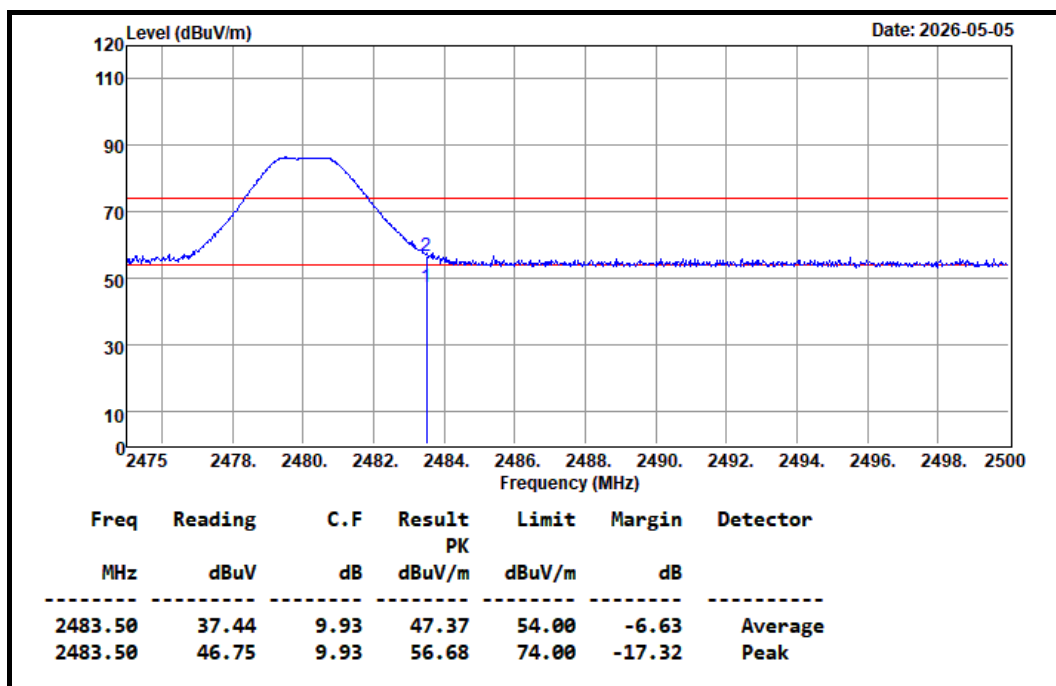


Product Name	Fully Automatic Direct Drive Turntable	Test Date	2026/05/05
Model	CS 629Q	Test By	Ted Huang
Test Mode	CH High TX / BLE 2M	TEMP& Humidity	25.6°C, 44%

Horizontal



Vertical



9.7 POWERLINE CONDUCTED EMISSIONS

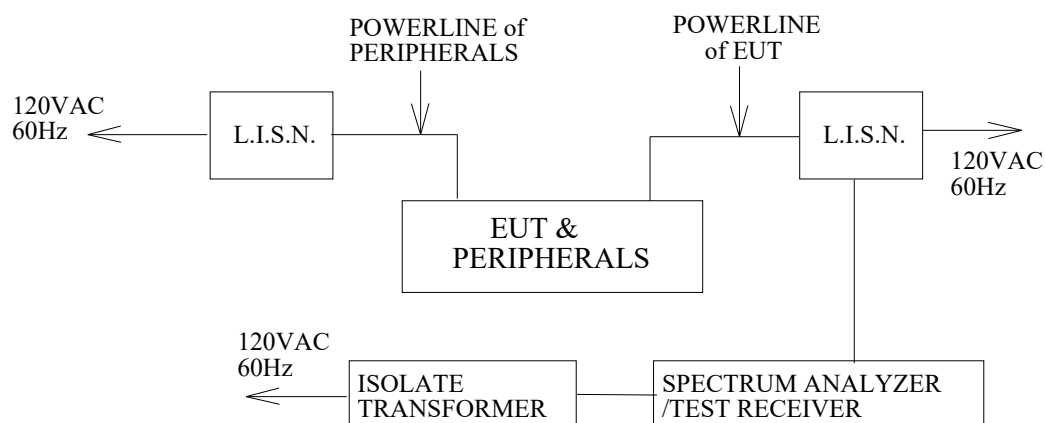
LIMITS

§ 15.207 (a) Except as shown in paragraph (b) and (c) this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal.

The lower limit applies at the boundary between the frequency ranges.

Frequency of Emission (MHz)	Conducted limit (dB μ v)	
	Quasi-peak	Average
0.15 - 0.5	66 to 56	56 to 46
0.5 - 5	56	46
5 - 30	60	50

TEST SETUP



TEST PROCEDURE

The EUT is placed on a non-conducting table 40 cm from the vertical ground plane and 80cm above the horizontal ground plane. The EUT IS CONFIGURED IN ACCORDANCE WITH ANSI C63.10.

The resolution bandwidth is set to 9 kHz for both quasi-peak detection and average detection measurements.

Line conducted data is recorded for both NEUTRAL and LINE.

TEST RESULTS

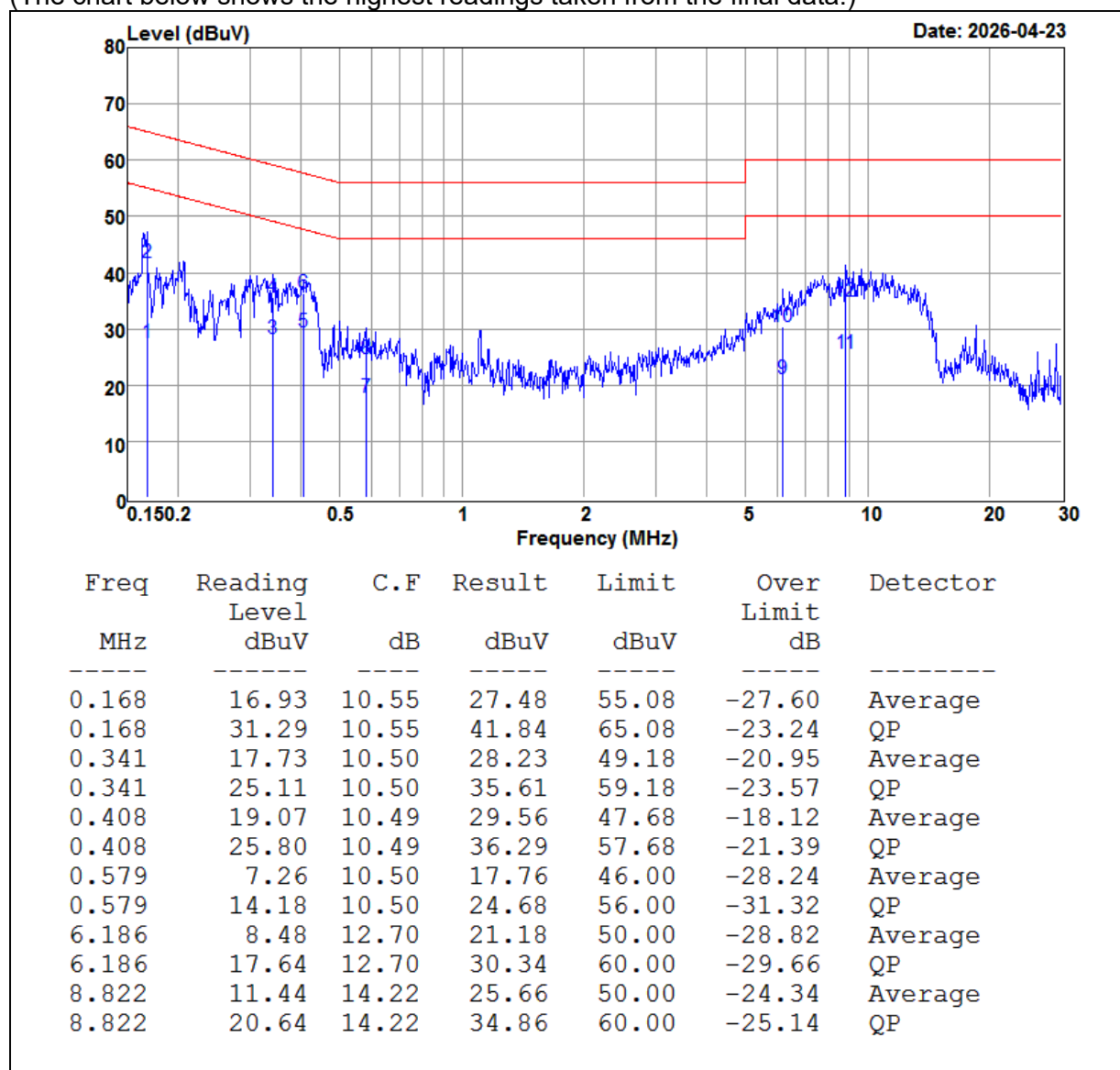
No non-compliance noted.

Test Voltage: AC 120V, 60Hz

Model No.	CS 629Q	Test Mode	Normal Operation
Environmental Conditions	23.6°C, 40% RH	Resolution Bandwidth	9 kHz
Tested by	Tye Lin		

LINE

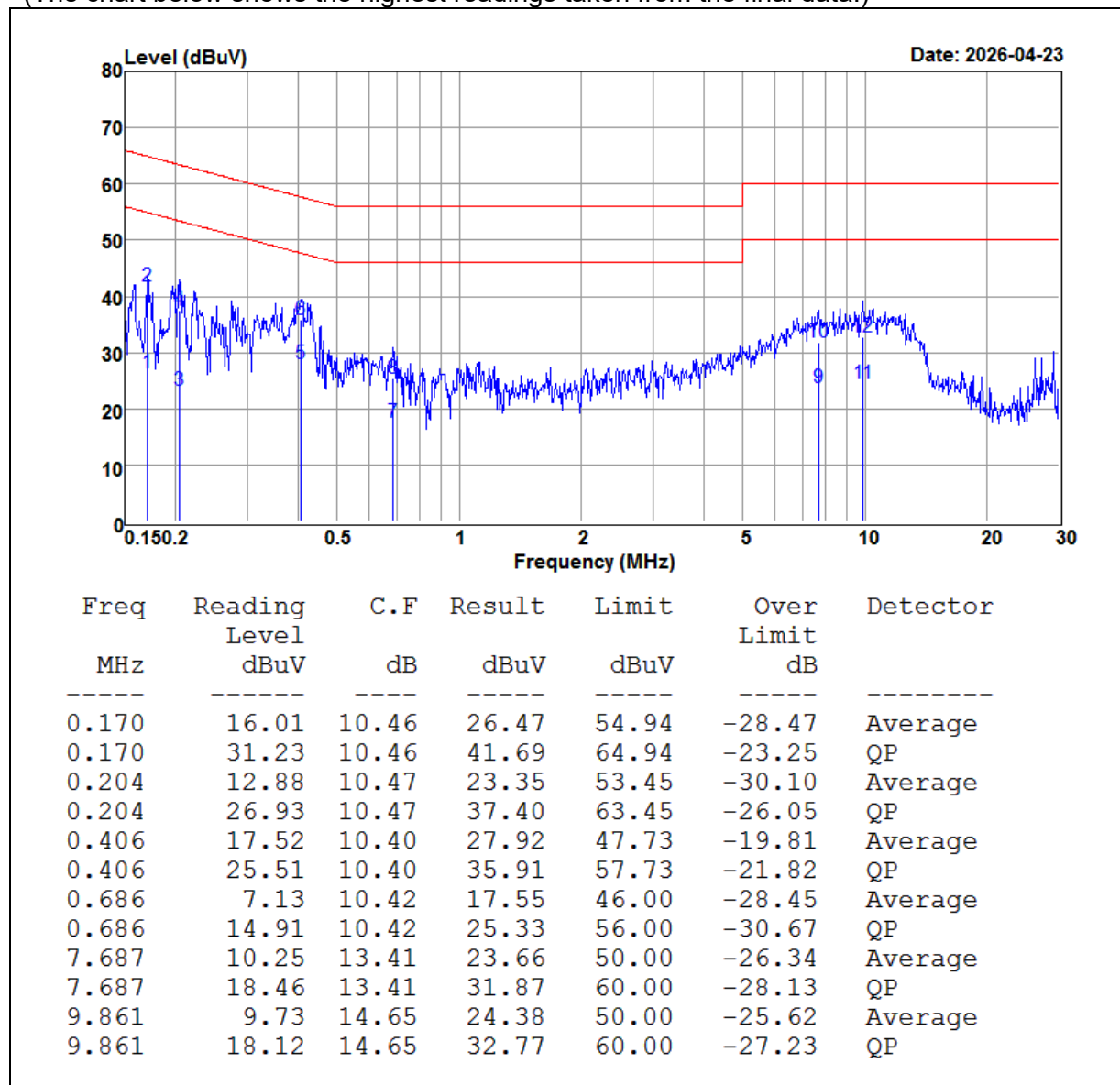
(The chart below shows the highest readings taken from the final data.)



Model No.	CS 629Q	Test Mode	Normal Operation
Environmental Conditions	23.6°C, 40% RH	Resolution Bandwidth	9 kHz
Tested by	Tye Lin		

NEUTRAL

(The chart below shows the highest readings taken from the final data.)



10. ANTENNA REQUIREMENT

10.1 STANDARD APPLICABLE

For intentional device, according to FCC 47 CFR Section 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.

And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

10.2 ANTENNA CONNECTED CONSTRUCTION

Manufacturer: Sunitec
Type: Layout Antenna
Model: CS 629Q
Gain: 2.2 dBi

=== END of Report ===