SGS Korea Co., Ltd.
4, LS-ro 182beon-gil, Gunpo-si, Gyeonggi-do, Korea, 15807
Tel. +82 31 428 5700 / Fax. +82 31 427 2370
http://www.sgsgroup.kr

TEST REPORT

of

FCC Part 15 Subpart C §15.247
IC RSS-247 Issue 4 and RSS-Gen Issue 6

FCC ID: A3LEIT5900
IC Certification: 649E-EIT5900

Equipment Under Test	:	Galaxy Smart Tag3
Model Name	:	EI-T5900
Variant Model Name(s)	:	-
FCC Applicant	:	Samsung Electronics Co Ltd
IC Applicant	:	SAMSUNG ELECTRONICS CO. LTD.
Manufacturer	:	Samsung Electronics Co., Ltd.
Date of Receipt	:	2026.06.17
Date of Test(s)	:	2026.07.13 ~ 2026.08.10
Date of Issue	:	2026.08.19

In the configuration tested, the EUT complied with the standards specified above.
This test report does not assure KOLAS accreditation.

1) The results of this test report are effective only to the items tested.
2) The SGS Korea is not responsible for the sampling, the results of this test report apply to the sample as received.
3) This test report cannot be reproduced, except in full, without prior written permission of the Company.
4) The data marked ※ in this report was provided by the customer and may affect the validity of the test results.
We are responsible for all the information of this test report except for the data(※) provided by the customer

Tested by: Finn Nam

Technical Manager: Jinhyoung Cho

SGS Korea Co., Ltd. Gunpo Laboratory

INDEX

Table of contents

1. General Information ---------- 3

2. Transmitter Radiated Spurious Emissions and Conducted Spurious Emissions ---------- 11

3. 6 dB Bandwidth and 99 % Bandwidth ---------- 40

4. Maximum Peak Conducted Output Power ---------- 47

5. Power Spectral Density ---------- 52

6. Antenna Requirement ---------- 56

1. General Information

1.1. Testing Laboratory

SGS Korea Co., Ltd. (Gunpo Laboratory)
- 10-2, LS-ro 182beon-gil, Gunpo-si, Gyeonggi-do, Korea, 15807
- 4, LS-ro 182beon-gil, Gunpo-si, Gyeonggi-do, Korea, 15807
- Designation number: KR0150

All SGS services are rendered in accordance with the applicable SGS conditions of service available on request and accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx.
Phone No. : +82 31 688 0901
Fax No. : +82 31 688 0921

1.2. Details of Applicant

FCC Applicant	:	Samsung Electronics Co Ltd
FCC Address	:	19 Chapin Rd., Building D, Pine Brook, New Jersey, United States, 07058
IC Applicant	:	SAMSUNG ELECTRONICS CO. LTD.
IC Address	:	129 Samsung-ro, Yeongtong-gu, Suwon-Si, Gyeonggi-do, 16677, Korea (Republic Of)
Contact Person	:	Chun, Jenni
Phone No.	:	+1 973 808 6361

1.3. Details of Manufacturer

Company	:	Samsung Electronics Co., Ltd.
Address	:	129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Republic of Korea

1.4. Description of EUT

Kind of Product	Galaxy Smart Tag3
Model Name	EI-T5900
Serial Number	Conducted: RF7L6C01CNXCYB Radiated: RF7L83100YXCYB
Power Supply	DC 3.0 V
Frequency Range	2 402 ~ 2 480 (Bluetooth Low Energy PHY 1M), 2 404 ~ 2 478 (Bluetooth Low Energy PHY 2M), 2 404 ~ 2 478 (Bluetooth Channel Sounding)
Modulation Technique	GFSK
Number of Channels	40 channels (Bluetooth Low Energy), 37 channels (Bluetooth Low Energy), 72 channels (Bluetooth Channel Sounding)
Antenna Type	LDS Antenna
Antenna Gain※	2 402 ㎒ ~ 2 480 ㎒: -1.19 ㏈i
H/W Version	1.0
S/W Version	1.0
FVIN	N/A

1.5. Test Equipment List

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Interval	Cal. Due
Spectrum Analyzer	R&S	FSV30	103453	10/17/2025	Annual	10/17/2026
DC Power Supply	R&S	HMP2020	22802108	02/23/2026	Annual	02/23/2027
Attenuator	AEROFLEX / INMET	40AH2W-6	2	05/19/2026	Annual	05/19/2027
Power Sensor	R&S	NRP-Z81	100748	06/19/2026	Annual	06/19/2027
Signal Generator	R&S	SMA100B	106887	10/20/2025	Annual	10/20/2026
Spectrum Analyzer	R&S	FSW67	103242	01/26/2026	Annual	01/26/2027
Spectrum Analyzer	Agilent	N9020A	MY53421758	09/10/2025	Annual	09/10/2026
Loop Antenna	Schwarzbeck Mess-Elektronik	FMZB 1519	1519-039	10/01/2025	Biennial	10/01/2027
TRILOG BROADBAND ANTENNA	Schwarzbeck Mess-Elektronik	VULB9163	01126	03/09/2026	Biennial	03/09/2028
DOUBLE RIDGED HORN ANTENNA	R&S	HF906	100326	03/03/2026	Annual	03/03/2027
Horn Antenna	Schwarzbeck Mess-Elektronik	BBHA 9170	9170-540	12/05/2025	Annual	12/05/2026
High Pass Filter	Wainwright Instrument GmbH	WHK3.0/18G-10SS	344	06/26/2026	Annual	06/26/2027
SIGNAL CONDITIONING UNIT	R&S	SCU18F	101058	06/02/2026	Annual	06/02/2027
RF AMPLIFIER	H.P	8447F-OPT H64	2944A03909	03/31/2026	Annual	03/31/2027
Pre Amplifier	TESTEK	TK-PA1840H	130016	03/06/2026	Annual	03/06/2027
Coaxial Cable	SENSORVIEW	NMST-13A26-NMST-5 m	TPC2402190004	04/17/2026	Semi-Annual	10/17/2026
Coaxial Cable	SENSORVIEW	NMST-13A26-NMST-10 m	TPC2402190001	04/17/2026	Semi-Annual	10/17/2026
Coaxial Cable	Qualwave	QT50P-40-KK-1.5	24270074	04/10/2026	Semi-Annual	10/10/2026
Turn Table	Innco systems GmbH	DS 1200 S	N/A	N.C.R.	N/A	N.C.R.
Controller	Innco systems GmbH	CONTROLLER CO3000-4P	CO3000/963/383305 16/L	N.C.R.	N/A	N.C.R.
Antenna Mast	Innco systems GmbH	MA4640-XP-ET	MA4640/536/383305 16/L	N.C.R.	N/A	N.C.R.
Anechoic Chamber	SY Corporation	L × W × H (9.6 m × 6.4 m × 6.6 m)	N/A	N.C.R.	N/A	N.C.R.

1.6. Declaration by the Manufacturer

- The EUT supports BLE version 6.0

1.7. Summary of Test Results

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC Part 15 Subpart C, ISED RSS-247 Issue 4 and RSS-Gen Issue 6			
Section in FCC	**Section in IC**	**Test Item(s)**	**Result**
15.205(a) 15.209 15.247(d)	RSS-247 Issue 4 6.6 RSS-Gen Issue 6 7.4.3	Transmitter Radiated Spurious Emissions and Conducted Spurious Emission	Pass
15.247(a)(2)	RSS-247 Issue 4 6.3.1(a) RSS-Gen Issue 6 5.1	6 dB Bandwidth & 99 % Bandwidth	Pass
15.247(b)(3)	RSS-247 Issue 4 6.3.2	Maximum Peak Conducted Output Power	Pass
15.247(e)	RSS-247 Issue 4 6.3.1(b)	Power Spectral Density	Pass
15.207	RSS-Gen Issue 6 7.4.2	AC Power Line Conducted Emission	N/A[1)]

Note;

1) The AC power line test was not performed because the EUT use battery power for operation and which do not operate from the AC power lines.

1.8. Test Procedure(s)

The measurement procedures described in the American National Standard of Procedure for Compliance Testing of Unlicensed Wireless Devices (ANSI C63.10-2020 for FCC and ANSI C63.10-2020 + Cor.1-2023 + C63.10a-2024 + Errata to C63.10a-2024 for ISED), as well as the guidance provided in KDB 558074 D01 15.247 Meas Guidance v05r02, were used in the measurement of the DUT.

All measurement procedures in the test report comply with both ANSI versions, with no effect on the test results

1.9. Sample Calculation

Where relevant, the following sample calculation is provided:

1.9.1. Conducted Test

Offset value (dB) = Attenuator (dB) + Cable loss (dB)

1.9.2. Radiation Test

Field strength level (dBμV/m) = Measured level (dBμV) + Antenna factor (dB/m) + Cable loss (dB) - Amplifier gain (dB) + Duty factor (dB)

1.10. Information of software for test and power setting

- Using the software of atmosic rf tool version 1.6.16.8 to testing of EUT.
- In this program, the power was set to 10.

1.11. Measurement Uncertainty

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

Parameter	Uncertainty	
Maximum Peak Conducted Output Power	0.35 dB	
Power Spectral Density	0.64 dB	
99 % Bandwidth	0.01 MHz	
6 dB Bandwidth	0.02 MHz	
Conducted Spurious Emission	0.86 dB	
Radiated Emission, 9 kHz to 30 MHz	H	3.60 dB
	V	3.60 dB
Radiated Emission, below 1 GHz	H	5.50 dB
	V	5.10 dB
Radiated Emission, above 1 GHz	H	3.50 dB
	V	3.40 dB

All measurement uncertainty values are shown with a coverage factor of *k*=2 to indicate a 95 % level of confidence.

1.12. Test Report Revision

Revision	Report number	Date of Issue	Description
0	F690501-RF-RTL007249	2026.08.19	Initial

1.13. Worst-Case Configuration and Test Mode (Bluetooth 6.0)

Modulation	Bandwidth	Mode	Frequency (㎒)	RF Output Power (dBm)
GFSK	1M	PHY 1M	2 440	6.26
		125k Coded		**6.58**
		500k Coded		6.50
		CS_PHY 1M		6.49
	2M	PHY 2M		**6.51**
		CS_PHY 2M		6.46

Remark;

The EUT supported PHY 1M, 125k Coded, 500k Coded, PHY 2M, and Channel Sounding mode.

All modes were investigated.

For PHY 1M,125k coded, 500k coded,CS_PHY 1M, PHY 2M and CS_PHY 2M 255 bytes is tested as worst condition.

Radiated emission below 1 ㎓ was performed with the EUT set to transmit at the channel with highest output power as worst-case scenario.

Radiated emission above 1 ㎓ was performed with the EUT set to transmit Low/Middle/High Channels as worst-case scenario.

Conducted tests were performed with the EUT set to transmit Low/Middle/High channels with highest output power.

1.14. Geolocation and operation under control of a primary device

The EUT fully complies with the applicable RSS standard requirements. Although the device does not support geo-location capabilities, it has been declared to meet the conditions set forth in Section 4.3 (b) of RSS-Gen, Issue 6

1.15. Duty Cycle of EUT

Regarding to KDB 558074 D01 15.247 Meas Guidance v05r02, 6, the maximum duty cycles of all modes were investigated and set the spectrum analyzer as below;
Set RBW ≥ OBW if possible; otherwise, set RBW to the largest available value. 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.

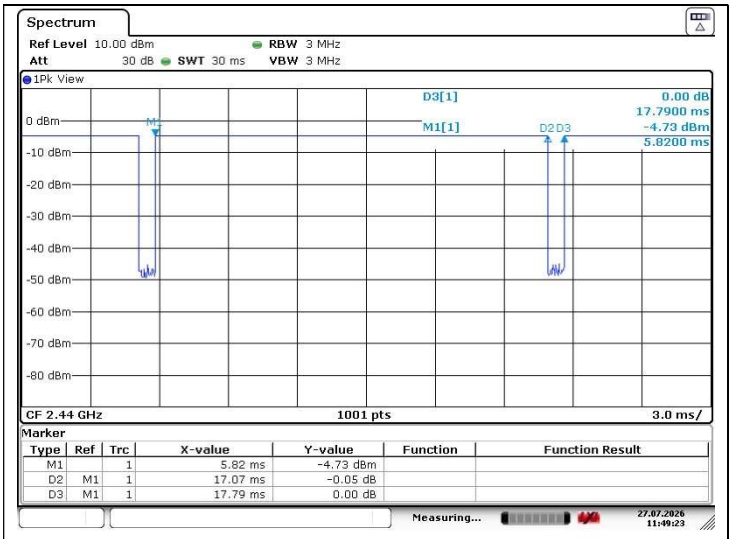
Test Mode	125k Coded	PHY 2M
Duty Cycle (%)	95.95	35.24
Correction Factor (dB)	0.18	4.53
Ontime (ms)	17.07	1.11
Ontime + off time (ms)	17.79	3.15

Remark;

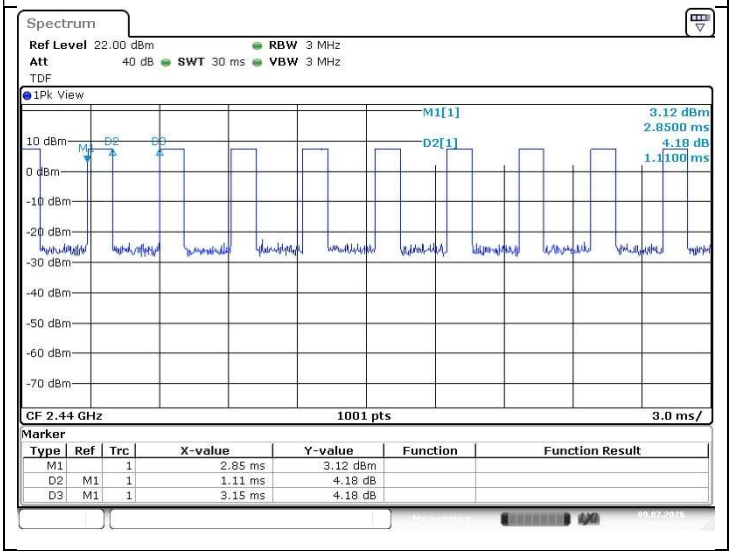
1. Duty Cycle (%) = (Tx on time / Tx on + off time) x 100
2. Correction Factor (dB) = 10 log (1 / Duty Cycle)

- Test plots

125k coded



PHY 2M

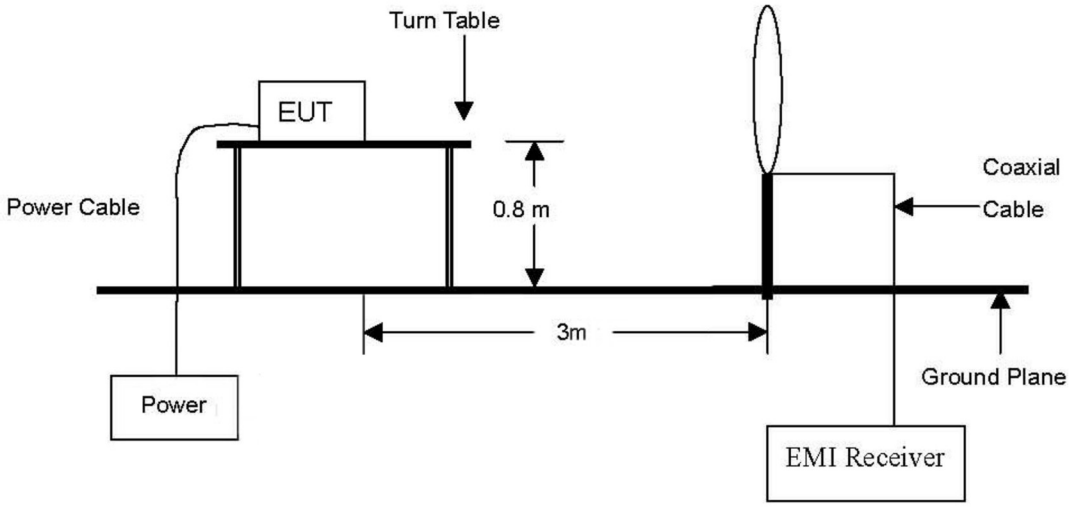


2. Transmitter Radiated Spurious Emissions and Conducted Spurious Emissions

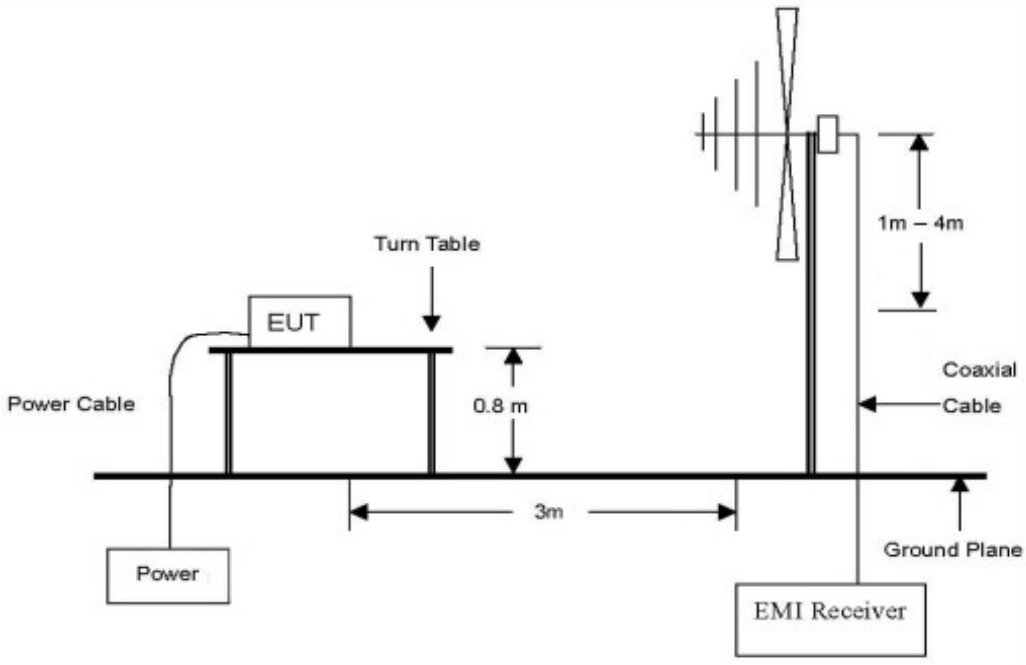
2.1. Test Setup

2.1.1. Transmitter Radiated Spurious Emissions

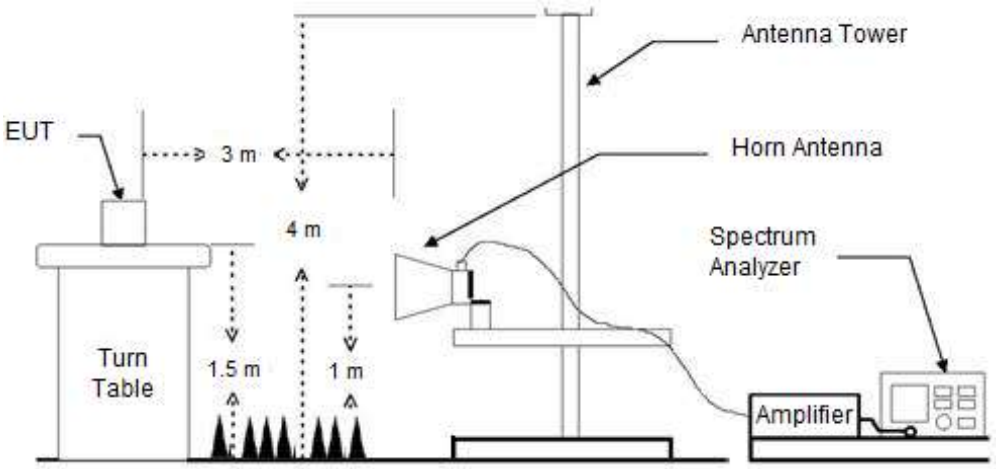
The diagram below shows the test setup that is utilized to make the measurements for emission from 9 ㎑ to 30 ㎒ emissions.



The diagram below shows the test setup that is utilized to make the measurements for emission from 30 ㎒ to 1 ㎓ Emissions.



The diagram below shows the test setup that is utilized to make the measurements for emission.
The spurious emissions were investigated from 1 ㎓ to the 10th harmonic of the highest fundamental frequency or 40 ㎓, whichever is lower.



2.1.2. Conducted Spurious Emissions

2.2. Limit

2.2.1. FCC

According to §15.247(d), in any 100 ㎑ bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 ㏈ below that in the 100 ㎑ bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 ㏈ instead of 20 ㏈. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emission 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)).

According to §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 (㎒)	Field Strength (㎶/m)	Measurement Distance (Meters)
0.009-0.490	2 400/F(㎑)	300
0.490-1.705	24 000/F(㎑)	30
1.705-30.0	30	30
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 ㎒, 76-88 ㎒, 174-216 ㎒ or 470-806 ㎒. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§15.231 and 15.241.

2.2.2. IC

According to RSS-247 Issue 4, 6.6, In any 100 ㎑ bandwidth outside the frequency band in which the spread spectrum device, digitally modulated device, or hybrid system is operating, the RF power that is produced shall be at least 20 ㏈ below that in the 100 ㎑ bandwidth within the band that contains the highest level of the desired power – based on either an RF conducted or a radiated measurement– provided that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of root-mean-square averaging over a time interval, as permitted undersection 6.3.2, the attenuation required shall be 30 ㏈ instead of 20 ㏈. Attenuation below the general field strength limits specified in RSS-Gen is not required.

According to RSS-Gen Issue 6, 7.4.3, The radio apparatus shall comply with the field strength limits shown in table 4 and table 5. Additionally, the level of any transmitter unwanted emission shall not exceed the level of the transmitter's fundamental emission.

Table 4 – General Field Strength Limits below 30 ㎒

Frequency (㎒)	Magnetic field strength limit[i] (㎂/m)	Measurement distance (m)
0.009 to 0.49	6.37/f (f in ㎑)	300
0.49 to 1.705	63.7/f (f in ㎑)	30
1.705 to 30	0.08	30
i. The more stringent limit shall apply at the transition frequency.		

Table 5 – General field strength limits at and above 30 ㎒

Frequency (㎒)	Electric field strength limit[i] at 3m distance (㎶/m)
30 to 88	100
88 to 216	150
216 to 960	200
> 960	500
i. The more stringent limit shall apply at the transition frequency.	

Note[1]: The emission limits for the ranges 9-90 ㎑ and 110-490 ㎑ are based on measurements employing a linear average detector.

2.3. Test Procedures

Radiated emissions from the EUT were measured in accordance with sections 11.11 & 11.12 of ANSI C63.10-2020 (for FCC) and ANSI C63.10-2020 + Cor.1-2023 + C63.10a-2024 + Errata to C63.10a-2024 (for ISED).

2.3.1. Test Procedures for emission below 30 ㎒

1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter anechoic chamber test site. The table was rotated 360 degrees to determine the position of the highest radiation.
2. Then antenna is a loop antenna is fixed at one meter above the ground to determine the maximum value of the field strength. Both parallel and perpendicular of the antenna are set to make the measurement.
3. For each suspected emission, the EUT was arranged to its worst case and then the table was turned from 0 degrees to 360 degrees to find the maximum reading.
4. The test-receiver system was set to average or quasi peak detect function and Specified Bandwidth with Maximum Hold Mode.

2.3.2. Test Procedures for emission from above 30 ㎒

1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter anechoic chamber test site below 1 ㎓ and 1.5 meters above the ground at a 3 meter anechoic chamber test site above 1 ㎓. The table was rotated 360 degrees to determine the position of the highest radiation.
2. During performing radiated emission below 1 ㎓, the EUT was set 3 meters away from the interference receiving antenna, which was mounted on the top of a variable-height antenna tower. During performing radiated emission above 1 ㎓, the EUT was set 3 meter away from the interference-receiving antenna.
3. The antenna is a bi-log antenna, a horn 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 polarizations of the antenna are set to make the measurement.
4. 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.
5. For measurements below 1 ㎓ resolution bandwidth is set to 100 ㎑ for peak detection measurements or 120 ㎑ for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.
6. For measurements Above 1 ㎓ resolution bandwidth is set to 1 ㎒, the video bandwidth is set to 3 ㎒ for peak measurements and as applicable for average measurements.

2.3.3. Test Procedures for Radiated Spurious Emissions

1. Unwanted Emissions into Non-Restricted Frequency Bands

- The Reference Level Measurement refer to section 11.11.2
Set analyzer center frequency to DTS channel center frequency, SPAN ≥ 1.5 times the DTS bandwidth, the RBW = 100 ㎑ and VBW ≥ 3 x RBW, Detector = Peak, Sweep time = No faster than coupled (auto) time, Trace = Max hold.

- Unwanted Emissions Level Measurement refer to section 11.11.3
Set the center frequency and span to encompass frequency range to be measured, the RBW = 100 ㎑ and VBW ≥ 3 x RBW, Detector = Peak, Sweep time = No faster than coupled (auto) time, Trace = Max hold.

2. Unwanted Emissions into Restricted Frequency Bands

- Peak Power measurement procedure refer to section 11.12.2.4
Set RBW = as specified in Table 16, VBW ≥ 3 x RBW, Detector = Peak, Sweep time = No faster than coupled (auto) time, Trace = Max hold.

Table 16 – RBW as a function of frequency

Frequency	RBW
9 ㎑ to 150 ㎑	200 ㎐ to 300 ㎐
0.15 ㎒ to 30 ㎒	9 ㎑ to 10 ㎑
30 ㎒ to 1 000 ㎒	100 ㎑ to 120 ㎑
> 1 000 ㎒	1 ㎒

If the peak – detected amplitude can be shown to comply with the average limit, then it is not necessary to perform a separate average measurement.

- Average Power measurements procedure refer to section 11.12.2.5.2
The EUT shall be configured to operate at the maximum achievable duty cycle.
Measure the duty cycle D of the transmitter output signal as described in section 11.6.
Set RBW = 1 ㎒, VBW ≥ 3 x RBW, Detector = Power averaging (rms), if span / (# of points in sweep) ≤ (RBW/2). Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied then the detector mode shall be set to peak.

Averaging type = power (i.e., RMS).
As an alternative the detector and averaging type may be set for linear voltage averaging.
Some instruments require linear display mode in order to use linear voltage averaging. Log or ㏈ averaging shall not be used. Sweep time = auto, Perform a trace average of at least 100 traces.

A correction factor shall be added to the measurement results prior to comparing to the emission limit in order to compute the emission level that would have been measured had the test been performed at 100 percent duty cycle. The correction factor is computed as follows:
1) If power averaging (rms) mode was used in step f), then the applicable correction factor is [10 log (1 / D)], where D is the duty cycle.
2) If a specific emission is demonstrated to be continuous (D ≥ 98%) rather than turning ON and OFF with the transmit cycle, then no duty cycled correction is required for that emission.

3. Definition of DUT Axis.

The radiation test of the EUT was investigated in three orthogonal orientations X, Y, and Z described in the test setup photo. All radiated testing of EUT was performed with worst case asix.

2.3.4. Test Procedures for Conducted Spurious Emissions

Per the guidance of ANSI C63.10-2020 (for FCC) and ANSI C63.10-2020 + Cor.1-2023 + C63.10a-2024 + Errata to C63.10a-2024 (for ISED), the reference level for out of band emissions is established from the plots of this section since the band edge emissions are measured with a RBW of 100 ㎑. This reference level is then used as the limit in subsequent plots for out of band spurious emissions shown in section 2.4.3. The limit for out of band spurious emission at the band edge is 20 ㏈ below the fundamental emission level measured in a 100 ㎑ bandwidth.

1. Conducted Emissions at Band Edge
 - The Measurement refer to section 11.11.3
   Set the center frequency and span to encompass frequency range to be measured, the RBW = 100 ㎑ and VBW ≥ 3 x RBW, Detector = Peak, Sweep time = No faster than coupled (auto) time, Trace mode = Max hold, The trace was allowed to stabilize.

2. Conducted Spurious Emissions
 - The Measurement refer to section 11.11.3
   Start frequency was set to 9 ㎑ and stop frequency was set to 25 ㎓ (separated plots per channel), RBW = 1 ㎒, VBW ≥ 3 x RBW, Detector = Peak, Sweep time = No faster than coupled (auto) time, Trace = Max hold, The trace was allowed to stabilize.

3. TDF function
 - For plots showing conducted spurious emissions from 9 ㎑ to 25 ㎓, all path loss of wide frequency range was investigated and compensated to spectrum analyzer as TDF function.
   So, the reading values shown in plots were final result.

2.4. Test Results

Ambient temperature : (23 ± 1) ℃
Relative humidity : 47 %

2.4.1. Radiated Spurious Emissions below 1 000 ㎒

Test mode: 125k Coded

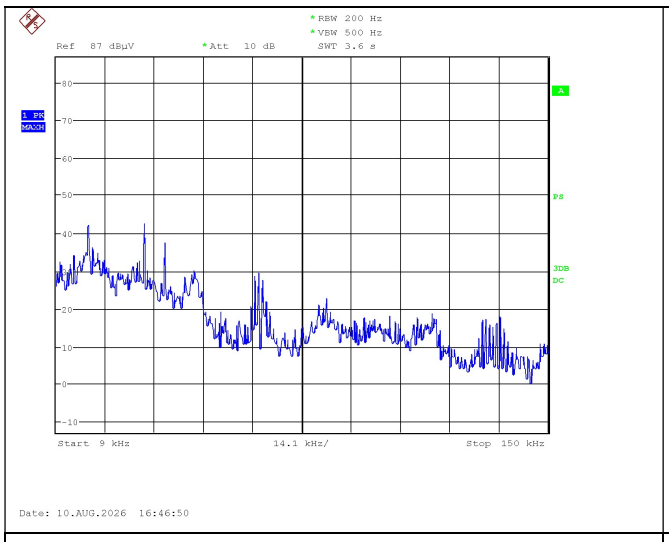
The frequency spectrum from 9 ㎑ to 1 000 ㎒ was investigated.

Radiated Emissions			Ant.	Correction Factors (dB/m)	Total	Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.		Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
933.393	23.57	Quasi Peak	H	4.80	28.37	46.00	17.63

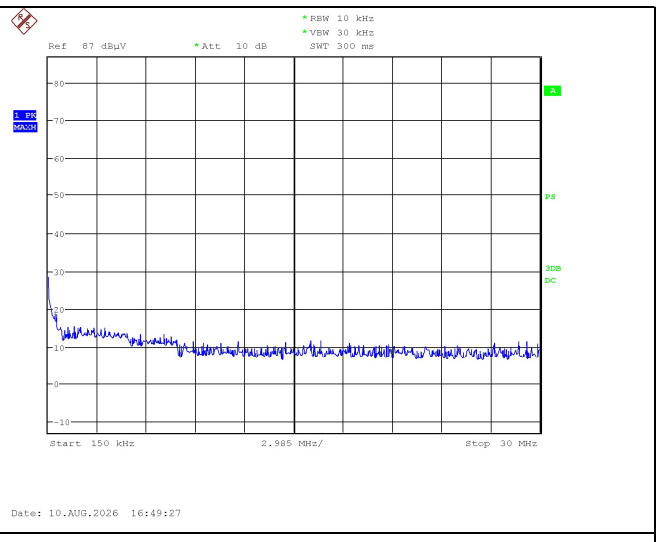
Remark;

1. Spurious emissions for all channels were investigated and almost the same below 1 ㎓.
2. Test from 30 ㎒ to 1 000 ㎒ was performed using the software of ELEKTRA(V5.02) from Rohde & Schwarz GmbH & Co. KG.
3. Reported spurious emissions are in **125k coded / Low channel** as worst case among other mode and channels.
4. Radiated spurious emission measurement as below.
   (Actual = Reading + Correction)
   (Correction = Antenna Factor + AMP Factor + Cable Loss)
5. According to §15.31(o), emission levels are not report much lower than the limits by over 20 ㏈.

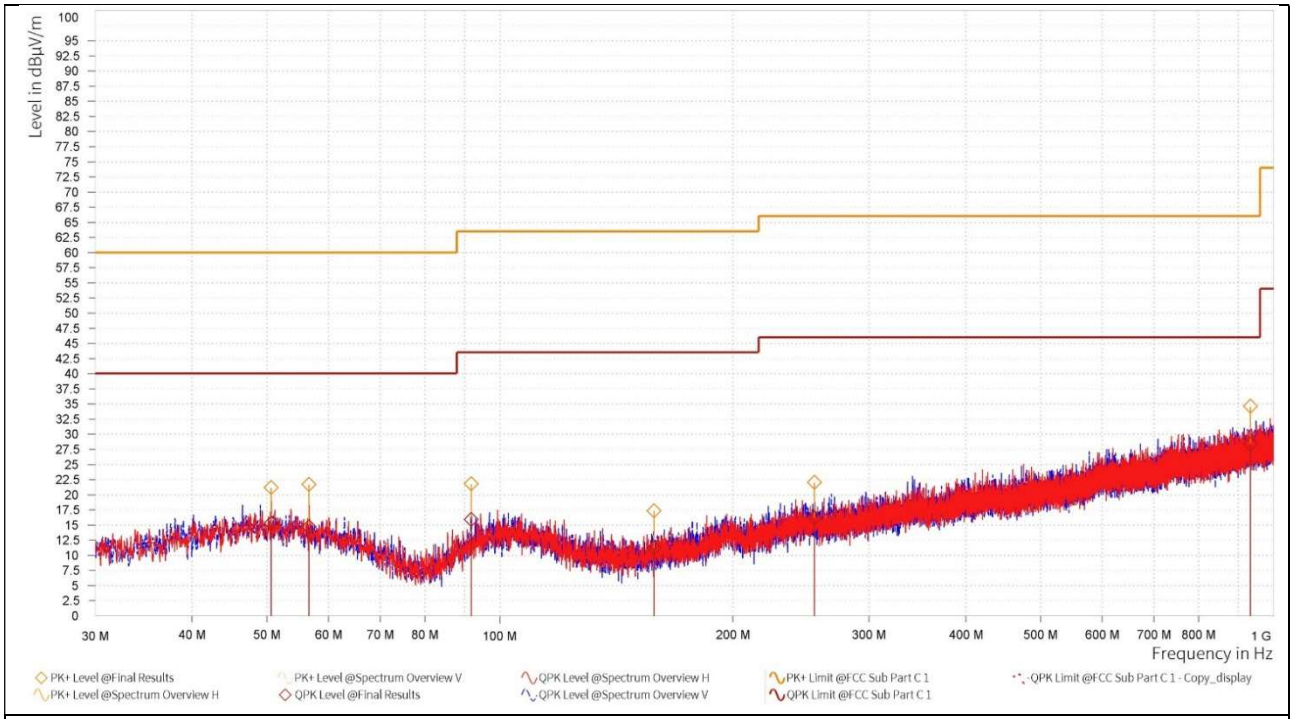
- Test plots



9 ㎑ ~ 150 ㎑



150 ㎑ ~ 30 ㎒



30 ㎒ ~ 1 ㎓

2.4.2. Radiated Spurious Emissions above 1 000 ㎒

The frequency spectrum above 1 000 ㎒ was investigated. All reading values are peak and average values.

Test mode: 125k Coded

Low Channel (2 402 ㎒)

Radiated Emissions			Ant.	Correction Factors			Total	Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	DF (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*2 310.00	17.28	Peak	H	28.06	7.32	-	52.66	74.00	21.34
*2 310.00	8.02	Average	H	28.06	7.32	0.18	43.58	54.00	10.42
*2 389.77	21.02	Peak	H	28.22	7.60	-	56.84	74.00	17.16
*2 386.03	9.22	Average	H	28.23	7.58	0.18	45.21	54.00	8.79
*2 390.00	20.16	Peak	H	28.22	7.60	-	55.98	74.00	18.02
*2 390.00	8.29	Average	H	28.22	7.60	0.18	44.29	54.00	9.71

Radiated Emissions			Ant.	Correction Factors			Total	Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	DF (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*4 804.39	49.08	Peak	V	32.72	-29.61	-	52.19	74.00	21.81
9 608.86	53.38	Peak	V	37.58	-23.90	-	67.06	74.00	6.94
*12 011.20	39.78	Peak	H	38.60	-21.44	-	56.94	74.00	17.06
*12 008.91	32.46	Average	H	38.60	-21.48	0.18	**49.76**	54.00	4.24
14 413.33	39.46	Peak	V	41.50	-19.69	-	61.27	74.00	12.73
Above 14 500.00	Not detected	-	-	-	-	-	-	-	-

Middle Channel (2 440 ㎒)

Radiated Emissions			Ant.	Correction Factors			Total	Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	DF (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*4 879.43	48.51	Peak	V	33.02	-28.89	-	52.64	74.00	21.36
*7 319.36	43.86	Peak	V	36.24	-28.22	-	51.88	74.00	22.12
9 760.93	54.02	Peak	V	37.52	-23.77	-	67.77	74.00	6.23
*12 198.73	37.33	Peak	H	38.60	-20.04	-	55.89	74.00	18.11
*12 198.88	29.14	Average	H	38.60	-20.04	0.18	47.88	54.00	6.12
14 641.24	39.70	Peak	V	41.32	-21.21	-	59.81	74.00	14.19
Above 14 700.00	Not detected	-	-	-	-	-	-	-	-

High Channel (2 480 ㎒)

Radiated Emissions			Ant.	Correction Factors			Total	Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	DF (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*2 483.50	32.99	Peak	H	28.40	7.61	-	69.00	74.00	5.00
*2 483.50	10.76	Average	H	28.40	7.61	0.18	46.95	54.00	7.05
*2 483.56	33.34	Peak	H	28.40	7.61	-	69.35	74.00	4.65
*2 483.53	10.79	Average	H	28.40	7.61	0.18	46.98	54.00	7.02
*2 500.00	19.84	Peak	H	28.50	7.69	-	56.03	74.00	17.97
*2 500.00	8.39	Average	H	28.50	7.69	0.18	44.76	54.00	9.24

Radiated Emissions			Ant.	Correction Factors			Total	Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	DF (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*4 959.49	49.55	Peak	V	33.22	-29.04	-	53.73	74.00	20.27
*7 440.67	46.14	Peak	V	36.22	-29.75	-	52.61	74.00	21.39
9 919.04	52.52	Peak	V	37.64	-22.22	-	67.94	74.00	6.06
*12 398.74	35.61	Peak	H	38.60	-21.11	-	53.10	74.00	20.90
14 878.81	38.86	Peak	V	40.74	-20.10	-	59.50	74.00	14.50
Above 14 900.00	Not detected	-	-	-	-	-	-	-	-

Test mode: PHY 2M

Low Channel (2 404 ㎒)

Radiated Emissions			Ant.	Correction Factors			Total	Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	DF (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*2 310.00	17.91	Peak	H	28.06	7.32	-	53.29	74.00	20.71
*2 310.00	7.90	Average	H	28.06	7.32	4.53	47.81	54.00	6.19
*2 378.32	20.26	Peak	H	28.23	7.59	-	56.08	74.00	17.92
*2 388.81	9.50	Average	H	28.22	7.60	4.53	**49.85**	54.00	4.15
*2 390.00	18.84	Peak	H	28.22	7.60	-	54.66	74.00	19.34
*2 390.00	8.51	Average	H	28.22	7.60	4.53	48.86	54.00	5.14

Radiated Emissions			Ant.	Correction Factors			Total	Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	DF (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*4 808.94	45.50	Peak	V	32.74	-29.62	-	48.62	74.00	25.38
7 213.53	46.74	Peak	V	35.93	-27.55	-	55.12	74.00	18.88
9 617.87	48.32	Peak	V	37.56	-23.89	-	61.99	74.00	12.01
*12 022.47	37.62	Peak	V	38.60	-21.25	-	54.97	74.00	19.03
*12 017.54	26.79	Average	V	38.60	-21.33	4.53	48.59	54.00	5.41
Above 12 100.00	Not detected	-	-	-	-	-	-	-	-

Middle Channel (2 440 ㎒)

Radiated Emissions			Ant.	Correction Factors			Total	Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	DF (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*4 879.00	47.41	Peak	V	33.02	-28.89	-	51.54	74.00	22.46
*7 321.51	43.74	Peak	V	36.24	-28.24	-	51.74	74.00	22.26
9 762.00	51.13	Peak	V	37.52	-23.77	-	64.88	74.00	9.12
*12 199.99	36.60	Peak	V	38.60	-20.04	-	55.16	74.00	18.84
*12 197.61	24.77	Average	V	38.60	-20.05	4.53	47.85	54.00	6.15
Above 12 200.00	Not detected	-	-	-	-	-	-	-	-

High Channel (2 478 ㎒)

Radiated Emissions			Ant.	Correction Factors			Total	Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	DF (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*2 483.50	26.77	Peak	H	28.40	7.61	-	62.78	74.00	11.22
*2 483.50	9.13	Average	H	28.40	7.61	4.53	49.67	54.00	4.33
*2 483.68	27.95	Peak	H	28.40	7.61	-	63.96	74.00	10.04
*2 483.62	9.22	Average	H	28.40	7.61	4.53	49.76	54.00	4.24
*2 500.00	19.38	Peak	H	28.50	7.69	-	55.57	74.00	18.43
*2 500.00	8.26	Average	H	28.50	7.69	4.53	48.98	54.00	5.02

Radiated Emissions			Ant.	Correction Factors			Total	Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	DF (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*4 956.91	47.52	Peak	V	33.21	-29.09	-	51.64	74.00	22.36
*7 432.49	44.80	Peak	V	36.24	-29.62	-	51.42	74.00	22.58
9 913.85	50.07	Peak	V	37.63	-22.08	-	65.62	74.00	8.38
*12 387.23	35.88	Peak	V	38.60	-21.18	-	53.30	74.00	20.70
Above 12 400.00	Not detected	-	-	-	-	-	-	-	-

Remarks;

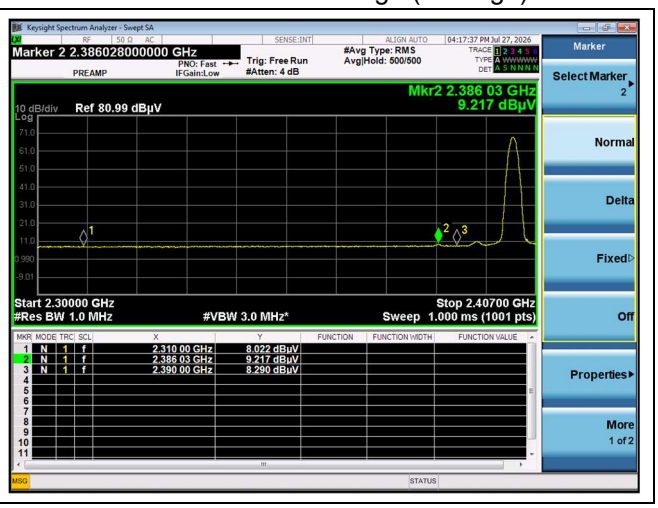
1. "*" means the restricted band.
2. Measuring frequencies from 1 ㎓ to the 10th harmonic of highest fundamental frequency.
3. Radiated emissions measured in frequency above 1 000 ㎒ were made with an instrument using peak/average detector mode.
4. Actual = Reading + AF + CL + (DF) or Reading + AF + AMP + CL + (DF).
5. According to § 15.31(o), emission levels are not reported much lower than the limits by over 20 ㏈.
6. The maximized peak measured value complies with the average limit, to perform an average measurement is unnecessary.
7. AF = Antenna Factor, CL = Cable Loss, DF = Duty Correction Factor.

- Test plots

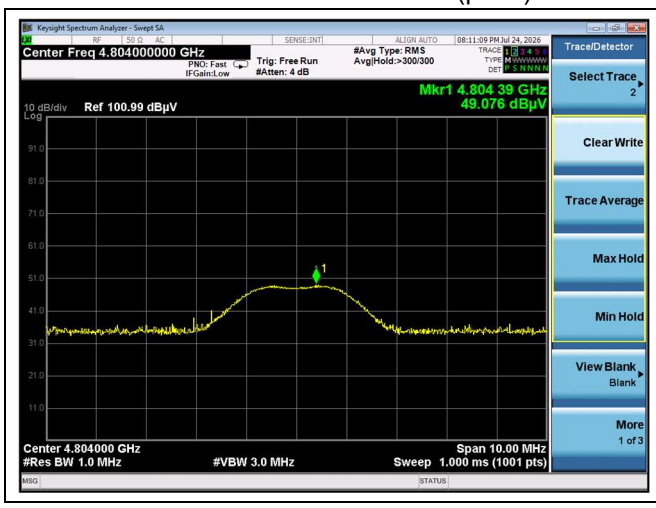
Test mode: 125k Coded

Low channel band edge (Peak)

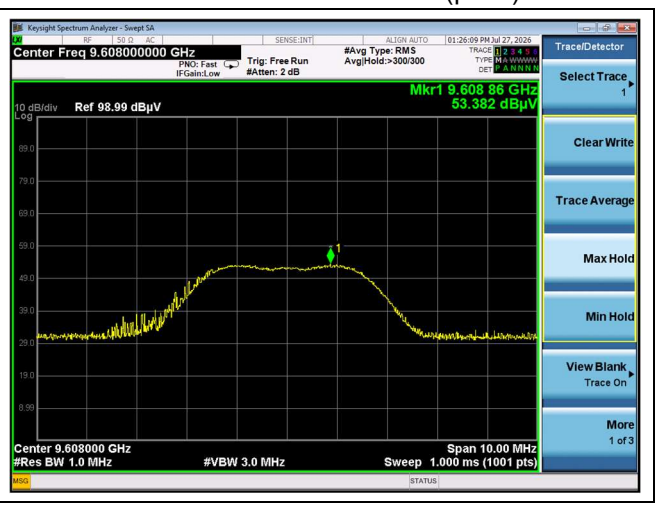
Low channel band edge (Average)



Low channel 2nd Harmonic (peak)

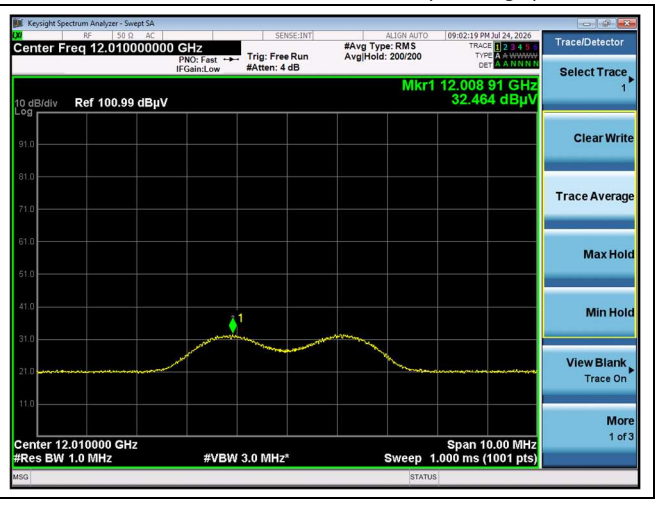


Low channel 4th Harmonic (peak)



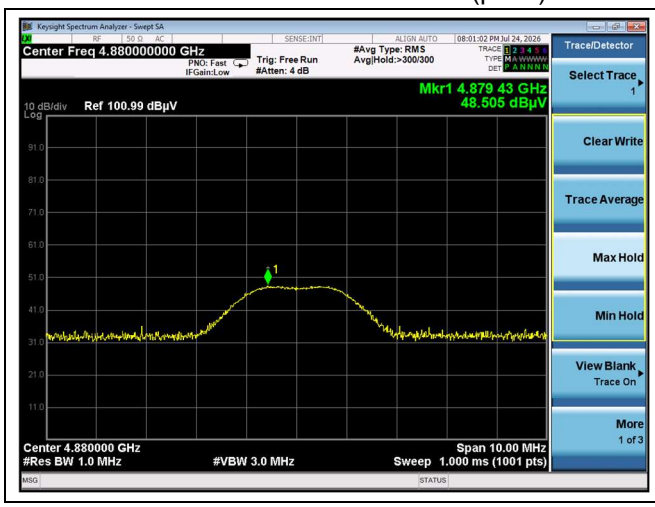
Low channel 5th Harmonic (peak)

Low channel 5th Harmonic (Average)

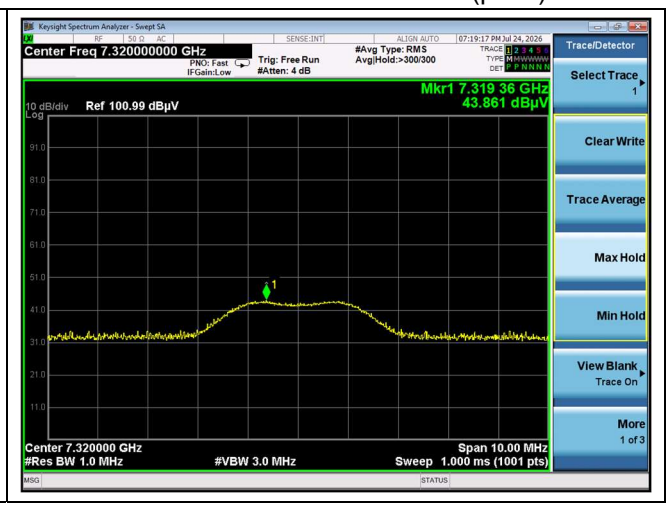


Low channel 6th Harmonic (peak)

Middle channel 2nd Harmonic (peak)



Middle channel 3rd Harmonic (peak)



Middle channel 4th Harmonic (peak)

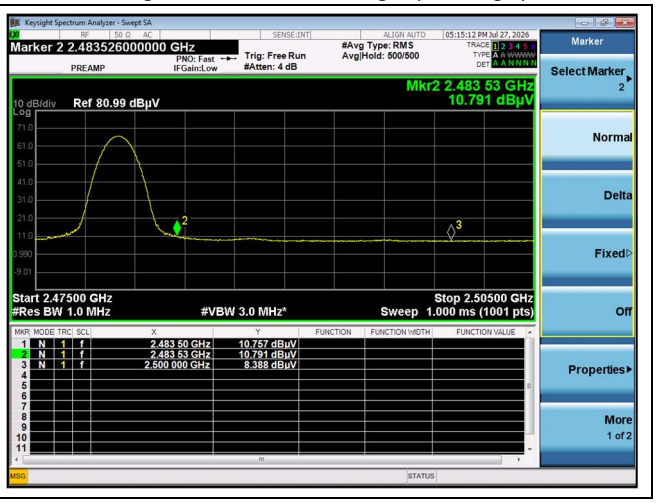
Middle channel 5th Harmonic (Peak)

Middle channel 5th Harmonic (Average)

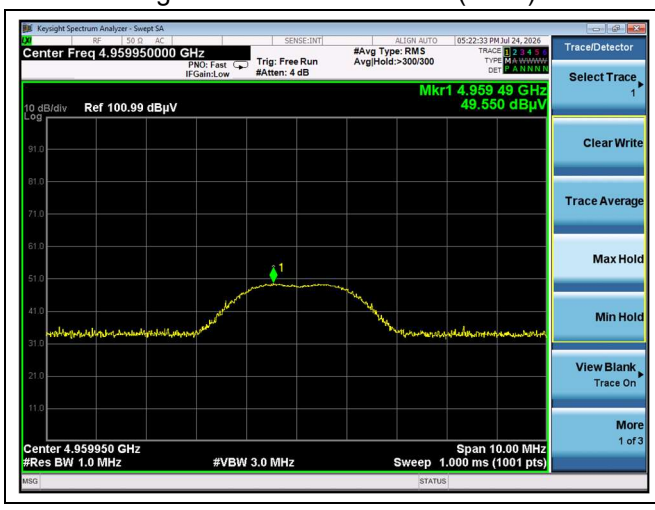
Middle channel 6th Harmonic (peak)

High channel band edge (Peak)

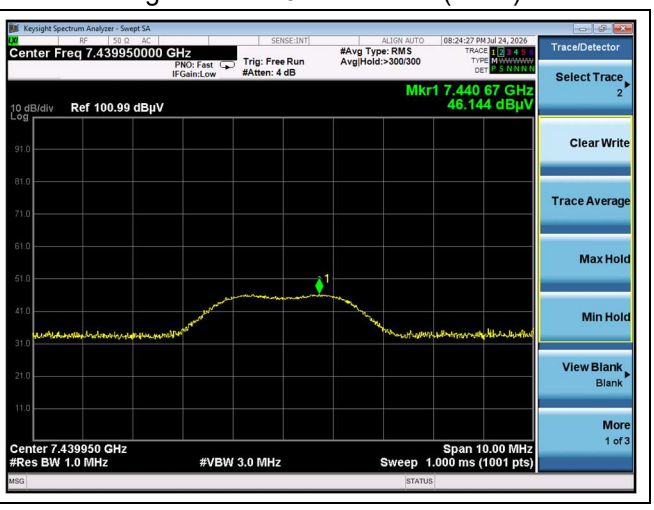
High channel band edge (Average)



High channel 2nd Harmonic (Peak)



High channel 3rd Harmonic (Peak)



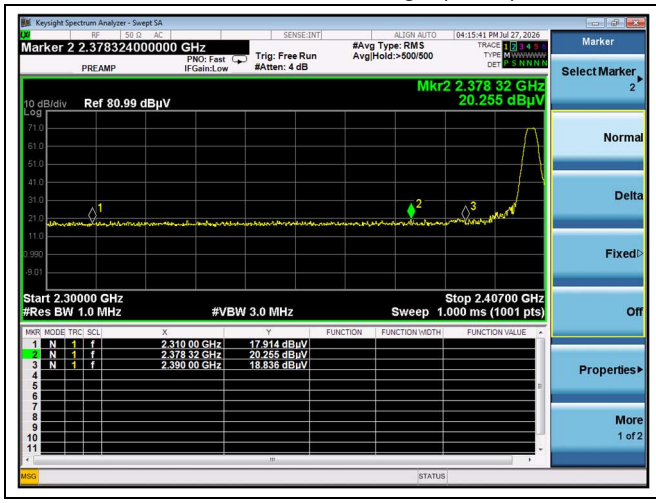
High channel 4th Harmonic (Peak)

High channel 5th Harmonic (Peak)

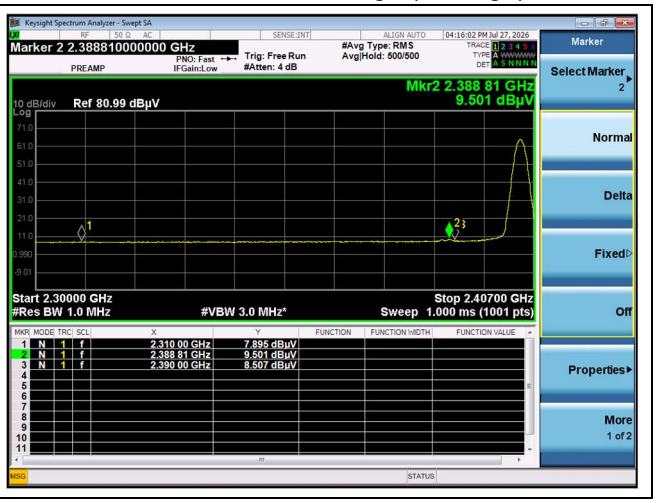
High channel 6th Harmonic (Peak)

Test mode: PHY 2M

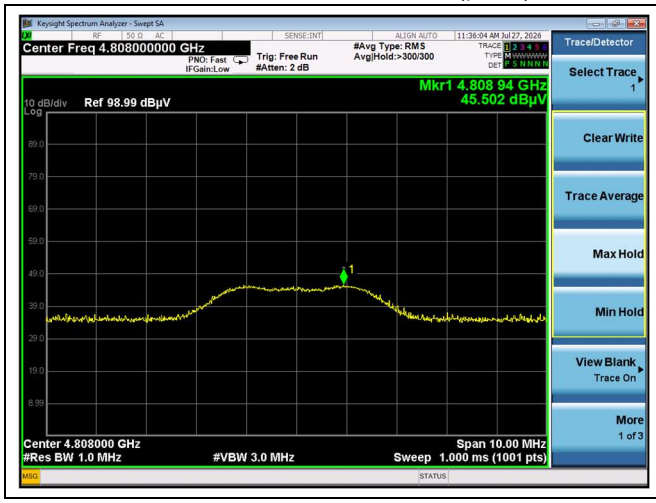
Low channel band edge (Peak)



Low channel band edge (Average)



Low channel 2nd Harmonic (peak)



Low channel 3rd Harmonic (peak)

Low channel 4th Harmonic (peak)