

TEST REPORT

of

FCC Part 15 Subpart F §15.503, §15.519 and §15.521
IC RSS-220 Issue 1 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) : 2026.07.09 ~ 2026.08.13
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.

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 - 2) The SGS Korea is not responsible for the sampling, the results of this test report apply to the sample as received.
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 - 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

<u>Table of Contents</u>	Page
1. General Information -----	3
2. Maximum Peak Power and Radiated Emissions -----	8
3. 10 dB Bandwidth -----	38
4. 99 % Bandwidth -----	47
5. Cease Transmission Time -----	56
6. Antenna Requirement-----	58

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

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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
Variant Model Names	-
Serial Number	Radiated: RF7L83100YXCIB
Power Supply	DC 3.0 V
Frequency Range	Tx: 7 987.2 MHz, Rx: 7 987.2 MHz
Modulation Type	BPM-BPSK
Number of Channel	1
Antenna Type	LDS Antenna
Antenna Gain*	1.99 dBi
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
Signal Generator	R&S	SMA100B	106887	10/20/2025	Annual	10/20/2026
Spectrum Analyzer	R&S	FSV30	100768	02/20/2026	Annual	02/20/2027
Spectrum Analyzer	R&S	FSW67	1003242	01/26/2026	Annual	01/26/2027
Attenuator	AEROFLEX / INMET	40AH2W-6	1	03/09/2026	Annual	03/09/2027
Loop Antenna	Schwarzbeck Mess-Elektronik	FMZB 1519	1519-039	10/01/2025	Biennial	10/01/2027
Bilog Antenna	Schwarzbeck Mess-Elektronik	VULB 9163	01126	03/09/2026	Biennial	03/09/2028
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
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	CO3000/963/38330 516/L	N.C.R.	N/A	N.C.R.
Antenna Mast	Innco systems GmbH	MA4640-XP-ET	MA4640/536/38330 516/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.
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
EMI Test Receiver	R&S	ESU26	100109	01/21/2026	Annual	01/21/2027
Spectrum Analyzer	Agilent	N9020A	MY53421758	09/10/2025	Annual	09/10/2026
SIGNAL CONDITIONING UNIT	R&S	SCU18F	101058	06/02/2026	Annual	06/02/2027
Preamplifier	H.P.	8447F	2944A03909	03/31/2026	Annual	03/31/2027
Preamplifier	TESTEK	TK-PA1840H	130016	03/06/2026	Annual	03/06/2027

1.6. Summary of Test Results

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC Part15 subpart F, IC RSS-220 Issue 1 and RSS-Gen Issue 6			
Section in FCC	Section in IC	Test Item(s)	Result
15.519(e) 15.519(c) 15.521(g)	RSS-220 Issue 1 5.3.1(d)(g)	Maximum Peak Power and Average Emissions	Pass
15.209(a) 15.505(b) 15.519(c) 15.519(d) 15.521(a) 15.521(c) 15.521(h)	RSS-220 Issue 1 3.4 5.3.1(d)(e)(f)	Radiated emissions	Pass
15.503(a) 15.519(b) 15.521(e)	RSS-220 Issue 1 2	10 dB Bandwidth	Pass
-	RSS-Gen Issue 6 5.1	99 % Bandwidth	Pass
15.519(a)(1)	RSS-220 Issue 1 5.3.1(b)	Cease Transmission Time	Pass
15.207	RSS-Gen Issue 6 7.4.2	AC Conducted Emissions	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.
- 2) Handheld UWB devices operating under the provisions of this section may operate indoors or outdoors.

1.7. Measurement Uncertainty

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

Parameter	Uncertainty	
Cease Trasnsmission Time	0.39 ms	
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.

1.8. Test Report Revision

Revision	Report Number	Date of Issue	Description
0	F690501-RF-RTL007251	2026.08.19	Initial

1.9. Information of software for test

- Using the software of Sohnet serial monitor 1.070 Beta to testing of EUT.

1.10. EUT description

Channel	Configuration	Packet length	Preamble
9	SP0	BPRF 4	9
			10
			11
			12
		BPRF 20	9
			10
			11
			12
	SP3	-	9
			10
			11
			12

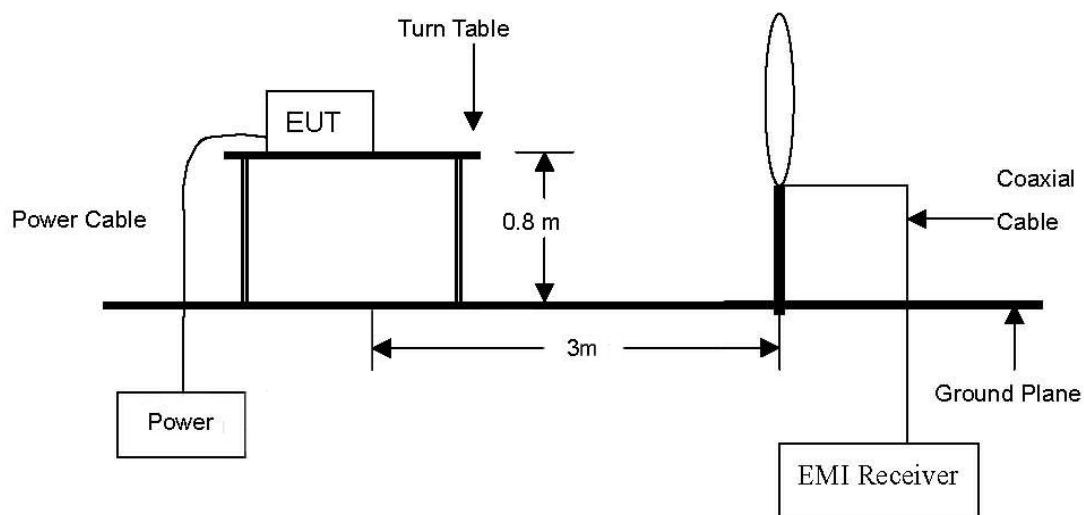
1.11. Geolocation and operation under control of a primary device

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

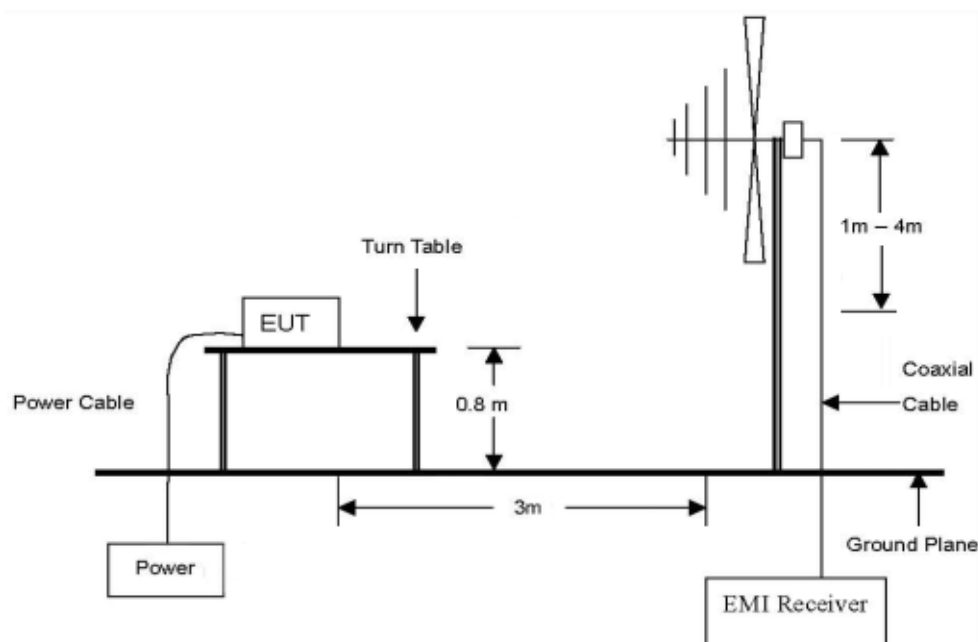
2. Maximum Peak Power and Radiated Emissions

2.1. Test Setup

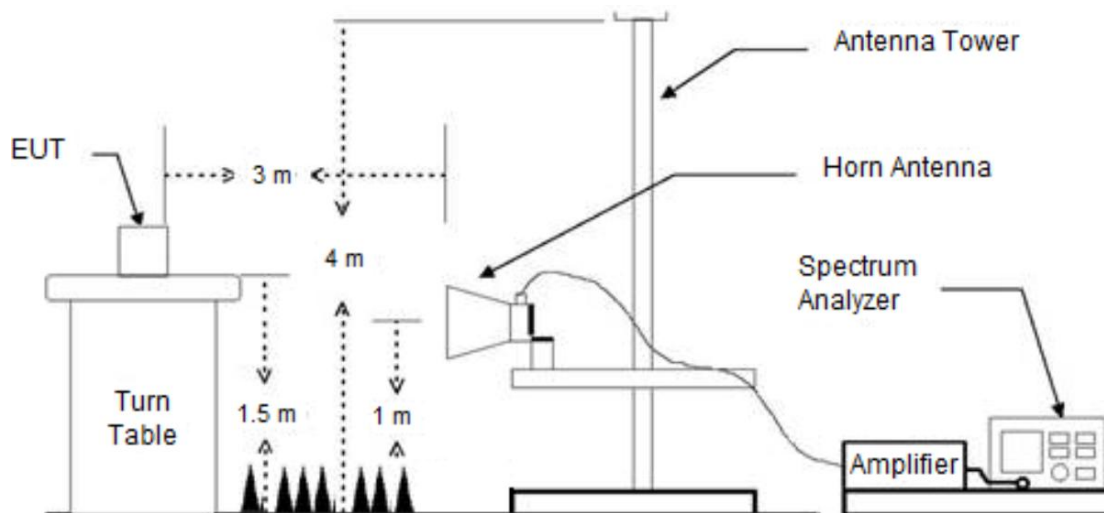
The diagram below shows the test setup that is utilized to make the measurements for emission below 30 MHz.



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



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



2.2. Limit

2.2.1. FCC

2.2.1.1. Maximum Peak Power

According to §15.519(e), there is a limit on the peak level of the emissions contained within a 50 MHz bandwidth centered on the frequency at which the highest radiated emission occurs, f_M . That limit is 0 dBm EIRP. It is acceptable to employ a different resolution bandwidth, and a correspondingly different peak emission limit, following the procedures described in §15.521(g).

2.2.1.2. Radiated Emissions at or below 960 MHz

According to §15.519(c), the radiated emissions at or below 960 MHz from a device operating under the provisions of this section shall not exceed the emission levels in §15.209(a).

According to §15.521(c), Emissions from digital circuitry used to enable the operation of the UWB transmitter shall comply with the limits in § 15.209(a), rather than the limits specified in this subpart, provided it can be clearly demonstrated that those emissions from the UWB device are due solely to emissions from digital circuitry contained within the transmitter and that the emissions are not intended to be radiated from the transmitter's antenna. Emissions from associated digital devices, as defined in § 15.3(k), e.g., emissions from digital circuitry used to control additional functions or capabilities other than the UWB transmission, are subject to the limits contained in Subpart B of this part.

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 (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meter)
0.009-0.490	2 400/F(kHz)	300
0.490-1.705	24 000/F(kHz)	30
1.705-30.0	30	30
30-88	100**	3
88-216	150**	3
216-960	200**	3
Above 960	500	3

** 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., §§15.231 and 15.241.

2.2.1.3. Radiated Emissions above 960 MHz

According to §15.519(c), the radiated emissions above 960 MHz from a device operating under the provisions of this section shall not exceed the following average limits when measured using a resolution bandwidth of 1 MHz:

Frequency in MHz	EIRP in dB m
960-1 610	-75.3
1 610-1 990	-63.3
1 990-3 100	-61.3
3 100-10 600	-41.3
Above 10 600	-61.3

According to §15.519(d), in addition to the radiated emission limits specified in the table in paragraph I of this section, UWB transmitters operating under the provisions of this section shall not exceed the following average limits when measured using a resolution bandwidth of no less than 1 kHz:

Frequency in MHz	EIRP in dB m
1 164-1 240	-85.3
1 559-1 610	-85.3

According to §15.521(h), The highest frequency employed in § 15.33 to determine the frequency range over which radiated measurements are made shall be based on the center frequency, f_c , unless a higher frequency is generated within the UWB device. For measuring emission levels, the spectrum shall be investigated from the lowest frequency generated in the UWB transmitter, without going below 9 kHz, up to the frequency range shown in § 15.33(a) or up to $f_c + 3/(\text{pulse width in seconds})$, whichever is higher. There is no requirement to measure emissions beyond 40 GHz provided f_c is less than 10 GHz; beyond 100 GHz if f_c is at or above 10 GHz and below 30 GHz; or beyond 200 GHz if f_c is at or above 30 GHz.

2.2.2. IC

2.2.2.1. Maximum Peak Power

According to RSS-220 Issue 1 5.3.1(g), the peak level of the transmissions shall not exceed the peak equivalent of the average limit contained within any 50 MHz bandwidth, as defined in section 4 of the Annex.

According to RSS-220 Issue 1 section 4 of the Annex, peak measurements shall be made in addition to average measurements. Transmissions shall not exceed 0 dBm e.i.r.p. in any 50 MHz bandwidth when the average limit is -41.3 dBm/MHz. This is the equivalent peak limit as calculated by combining the 6 dB peak-to-average conversion with a resolution bandwidth (RBW) scaling factor of $20 \log(1 \text{ MHz}/50 \text{ MHz})$. Only the 50 MHz bandwidth, centred on the frequency f_m where the highest power occurs, needs to be measured to satisfy the peak requirements for all frequencies. A different resolution bandwidth and a correspondingly different peak limit may also be used, in which case the RBW may be set anywhere between 1 MHz and 50 MHz. The peak e.i.r.p. limit is then calculated as $20 \log(\text{RBW}/50) \text{ dBm}$ where the RBW is in MHz. This may be converted to a peak field strength level at 3 metres using $E(\text{dB}\mu\text{V/m}) = P(\text{e.i.r.p.}(\text{dBm})) + 95.2$. If the RBW is greater than 3 MHz, the application for certification shall contain a detailed description of the test procedure, the calibration of the test set-up and the instrumentation used in the testing.

2.2.2.2. Radiated Emissions at or Below 960 MHz

According to RSS-220 Issue 1 3.4, radiated emissions at or below 960 MHz for all subclasses of UWB device shall not exceed the following limits. Measurements of radiated emissions at and below 960 MHz are to be made using a CISPR quasi-peak detector. CISPR measurement bandwidth specifications are to be used.

Frequency (MHz)	Field Strength (Microvolts/m)	Measurement Distance (Metres)	E.i.r.p. (dBmW)
0.009-0.490	2 400/F (F in kHz)	300	$10 \log(17.28 / F^2)$ (F in kHz)
0.490-1.705	24 000/F (F in kHz)	30	$10 \log(17.28 / F^2)$ (F in kHz)
1.705-30.0	30	30	-45.7
30-88	100	3	-55.2
88-216	150	3	-51.7
216-960	200	3	-49.2

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

2.2.2.3. Radiated Emissions Above 960 MHz

According to RSS-220 Issue 1 5.3.1(d), radiated emissions above 960 MHz from a device shall not exceed the following average limits when measured using a resolution bandwidth of 1 MHz.

Hand-held (Outdoor) Communication, Measurement, Location Sensing, and Tracking Devices	
Frequency	EIRP in a Resolution Bandwidth of 1 MHz
960-1 610 MHz	-75.3 dB m
1.61-4.75 GHz	-70.0 dB m
4.75-10.6 GHz	-41.3 dB m
Above 10.6 GHz	-61.3 dB m

According to RSS-220 Issue 1 5.3.1(e), in addition to the limits specified in paragraph (d) of this section, radiated emissions shall not exceed the following average limits when measured using a resolution bandwidth greater than or equal to 1 kHz. The measurements shall demonstrate compliance with the stated limits at whatever resolution bandwidth is used.

Frequency	EIRP in a Resolution Bandwidth of 1 kHz
1 164-1 240 MHz	-85.3 dB m
1 559-1 610 MHz	-85.3 dB m

2.3. Test Procedures

Radiated emissions from the EUT were measured according to the dictates of ANSI C63.10-2020 for FCC and ANSI C63.10-2020+Cor.1-2023+C63.10a-2024 + Errata to C63.10a-2024 for ISSED.

2.3.1. Test Procedures for emission below 30 MHz

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 30 MHz to 1 000 MHz

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. During performing radiated emission below 1 GHz, the EUT was set 3 meters away from the interference receiving antenna, which was mounted on the top of a variable-height antenna tower.
3. The antenna is a bi-log 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 GHz resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

2.3.3. Test Procedures for emission above 1 GHz

- a. The EUT was placed on the top of a rotating table 1.5 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.
- b. The EUT was set 3 meters away from the interference receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna is 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.
- d. 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.

1. Peak power Measurement

- The Peak power measurement refer to section 10.3.5 and 10.3.6

The RBW = less than 50 MHz (but no less than 1 MHz), VBW is set to at least 1 MHz (3 MHz is recommended),

When this approach is employed, the peak emissions EIRP limit (0 dBm / 50 MHz) is converted to a limit commensurate with the RBW by employing a $[20 \log (RBW / 50 \text{ MHz})]$ relationship.

When a resolution bandwidth of less than 50 MHz is used, this measurement shall be performed over a 50 MHz span centered on the frequency associated with the highest detected average emission level.

2. Average Measurement

- The Average Measurement refer to section 10.3.7

Set the RBW to 1 MHz (1 kHz for emission in the GPS bands), VBW to be at least 1 MHz (3 kHz for emission in the GPS bands), Detector = RMS, Sweep time = no more than a 1 ms integration period over each measurement bin.

2.4. Test Result

Ambient temperature : (23 ± 1) °C

Relative humidity : 47 %

2.4.1. Maximum peak power and Average emission

All emissions tested both horizontal and vertical. The following table shows the highest levels of radiated emissions on the worst polarization.

Frequency (MHz)	Reading (dBμV)	Ant. Pol.	Detect Mode	AF (dB/m)	AMP+CL (dB)	E (dBμV/m)	CF (dB)	E.I.R.P. (dB m)	Limit (dB m)	Margin (dB)
SP0_BPRF 4_Preamble 9										
7 991.20	91.00	H	Peak	36.08	-26.20	100.88	-104.80	-3.92	0	3.92
7 991.20	49.15	H	Average	36.08	-26.20	59.03	-104.80	-45.77	-41.3	4.47
SP0_BPRF 4_Preamble 10										
7 987.20	93.74	H	Peak	36.07	-26.12	103.69	-104.80	-1.11	0	1.11
7 987.20	49.52	H	Average	36.07	-26.12	59.47	-104.80	-45.33	-41.3	4.03
SP0_BPRF 4_Preamble 11										
7 993.20	92.20	H	Peak	36.09	-26.25	102.04	-104.80	-2.76	0	2.76
7 993.20	49.23	H	Average	36.09	-26.25	59.07	-104.80	-45.73	-41.3	4.43
SP0_BPRF 4_Preamble 12										
7 959.20	90.89	H	Peak	36.02	-25.84	101.07	-104.80	-3.73	0	3.73
7 959.20	49.02	H	Average	36.02	-25.84	59.20	-104.80	-45.60	-41.3	4.30
SP0_BPRF 20_Preamble 9										
7 959.20	91.02	H	Peak	36.02	-25.84	101.20	-104.80	-3.60	0	3.60
7 959.20	49.95	H	Average	36.02	-25.84	60.13	-104.80	-44.67	-41.3	3.37
SP0_BPRF 20_Preamble 10										
7 989.20	93.73	H	Peak	36.08	-26.16	103.65	-104.80	-1.15	0	1.15
7 989.20	50.21	H	Average	36.08	-26.16	60.13	-104.80	-44.67	-41.3	3.37
SP0_BPRF 20_Preamble 11										
7 959.20	90.92	H	Peak	36.02	-25.84	101.10	-104.80	-3.70	0	3.70
7 959.20	49.66	H	Average	36.02	-25.84	59.84	-104.80	-44.96	-41.3	3.66
SP0_BPRF 20_Preamble 12										
7 962.20	91.17	H	Peak	36.02	-25.84	101.35	-104.80	-3.45	0	3.45
7 962.20	49.99	H	Average	36.02	-25.84	60.17	-104.80	-44.63	-41.3	3.33

Frequency (MHz)	Reading (dB μ V)	Ant. Pol.	Detect Mode	AF (dB/m)	AMP+CL (dB)	E (dB μ V/m)	CF (dB)	E.I.R.P. (dB m)	Limit (dB m)	Margin (dB)
SP3_ Preamble 9										
8 130.06	84.51	H	Peak	36.36	-27.00	93.87	-104.80	-10.93	0	10.93
8 130.06	53.39	H	Average	36.36	-27.00	62.75	-104.80	-42.05	-41.3	0.75
SP3_ Preamble 10										
8 089.10	84.32	H	Peak	36.28	-26.75	93.85	-104.80	-10.95	0	10.95
8 089.10	53.36	H	Average	36.28	-26.75	62.89	-104.80	-41.91	-41.3	0.61
SP3_ Preamble 11										
8 089.10	84.39	H	Peak	36.28	-26.75	93.92	-104.80	-10.88	0	10.88
8 089.10	53.29	H	Average	36.28	-26.75	62.82	-104.80	-41.98	-41.3	0.68
SP3_ Preamble 12										
8 104.08	85.89	H	Peak	36.31	-26.98	95.22	-104.80	-9.58	0	9.58
8 104.08	53.55	H	Average	36.31	-26.98	62.88	-104.80	-41.92	-41.3	0.62

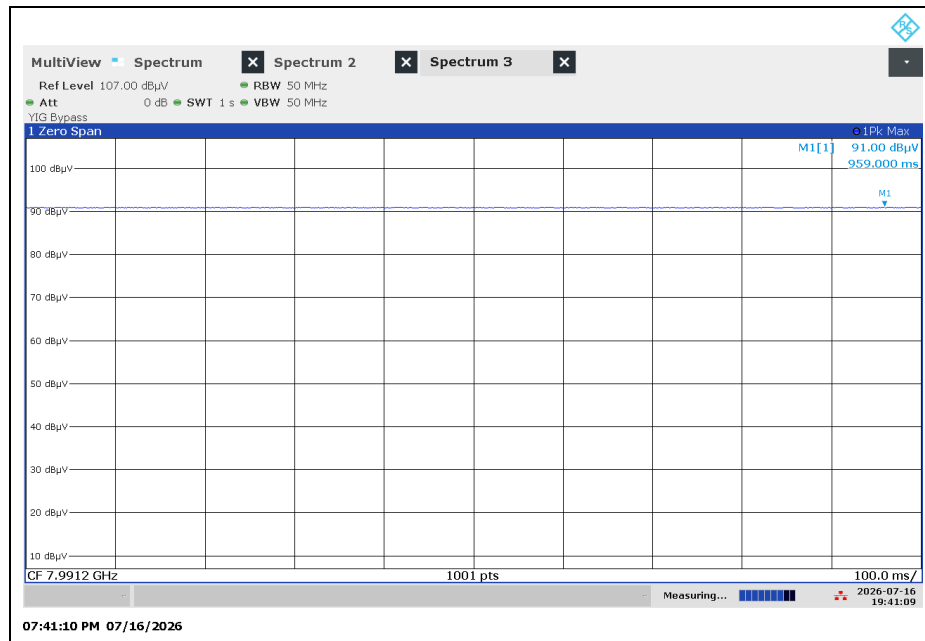
Remark;

1. $E \text{ (dB}\mu\text{V/m)} = \text{Reading (dB}\mu\text{V)} + \text{Antenna Factor (dB/m)} + \text{Amp (dB)} + \text{Cable Loss (dB)}$.
2. $E.I.R.P. \text{ (dB m)} = E \text{ (dB}\mu\text{V/m)} + 20 \log D - 104.8$; where D is the measurement distance in meters.
3. $CF \text{ (dB)} (E.I.R.P.) = 20 \log D - 104.8$;
4. All the emissions were measured at a 1 meter test distance.
5. AF = Antenna Factor, AMP = Amplifier, CL = Cable Loss.

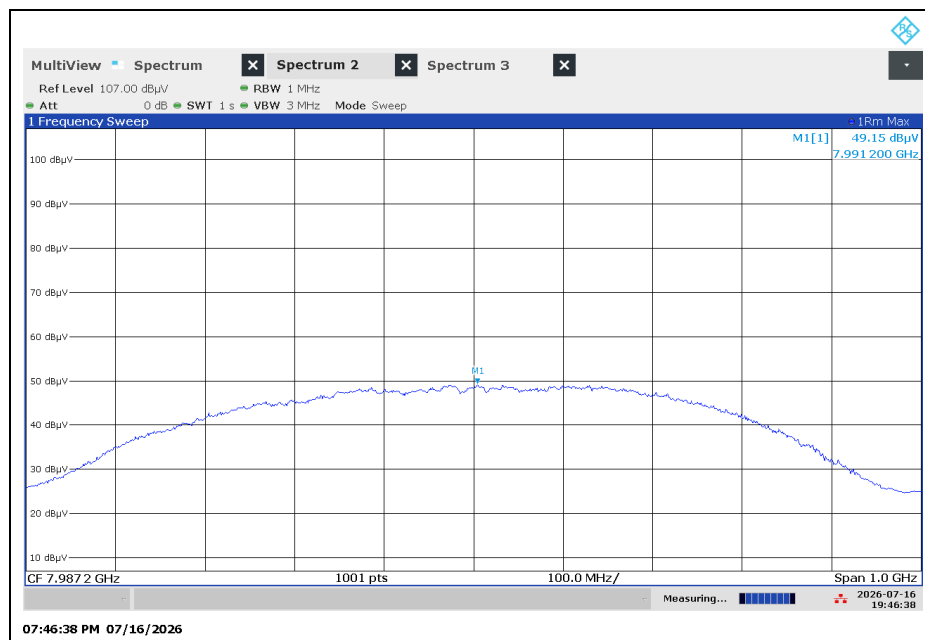
- Test plots

- SP0_BPRF 4_Preamble 9

Maximum Peak power

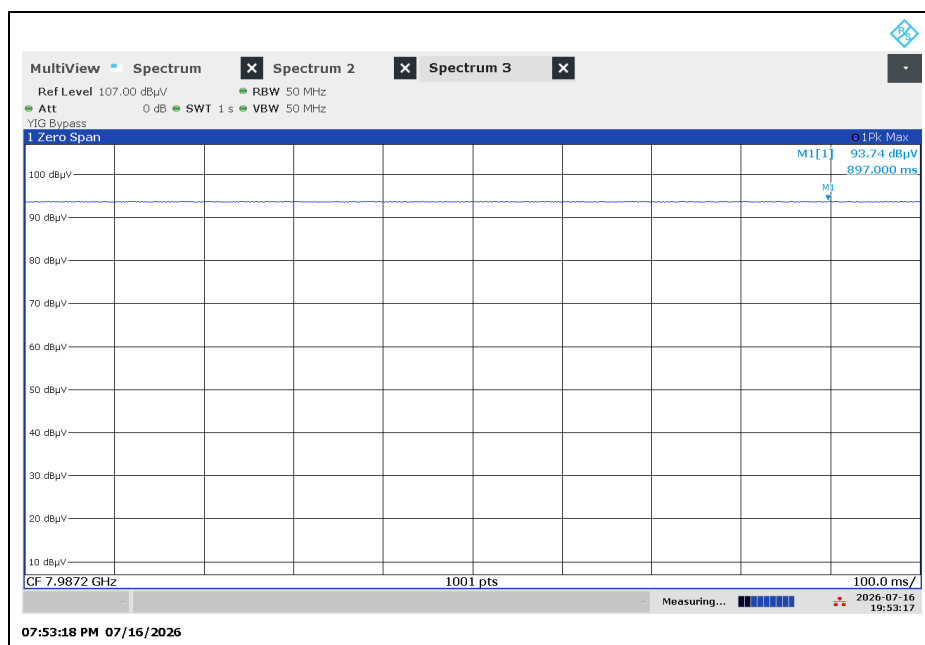


Average emission

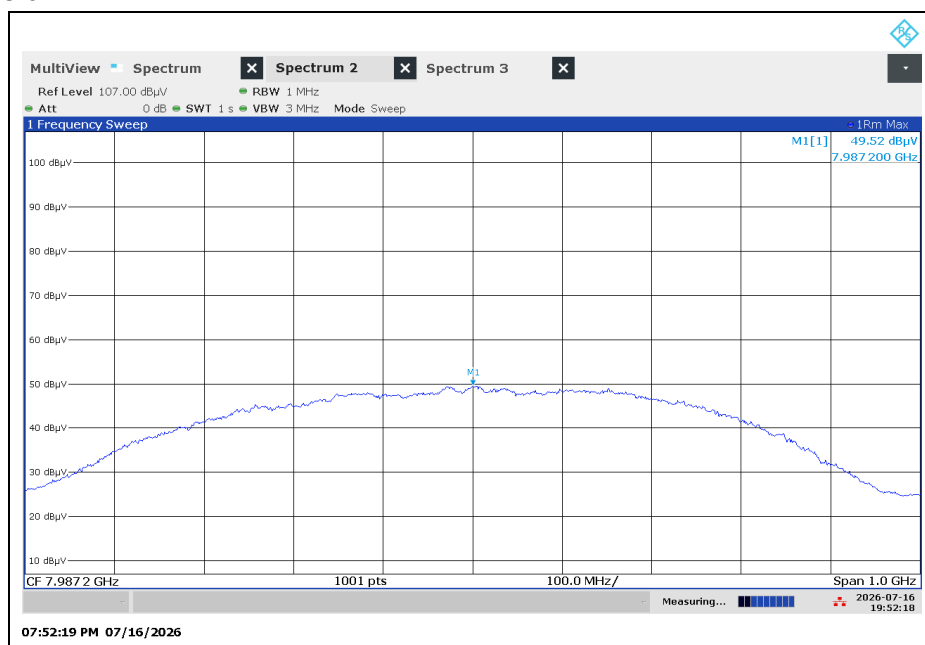


- SP0_BPRF 4_Preamble 10

Maximum Peak power

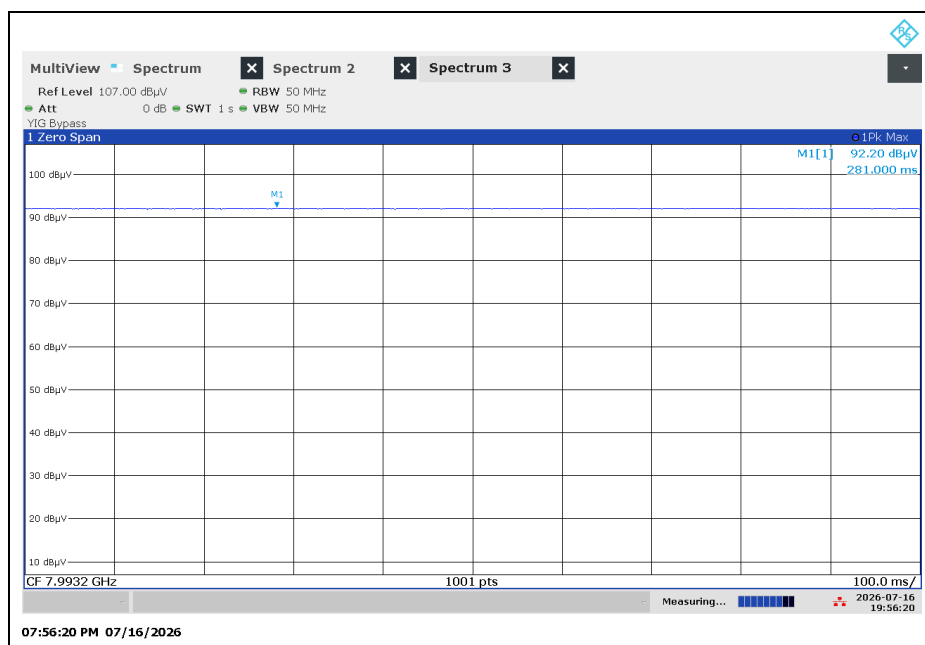


Average emission

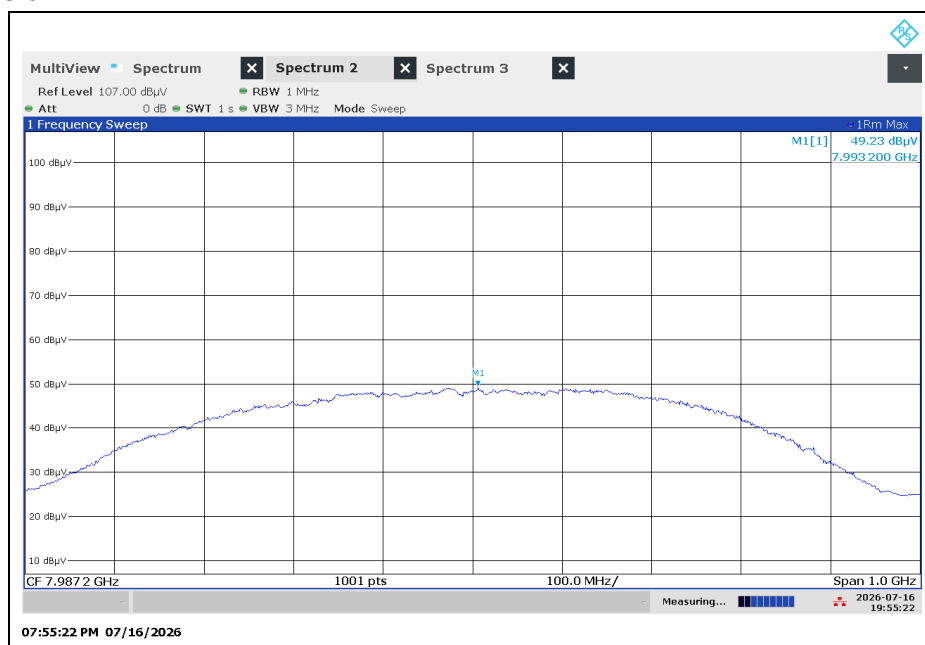


- SP0_BPRF 4_Preamble 11

Maximum Peak power

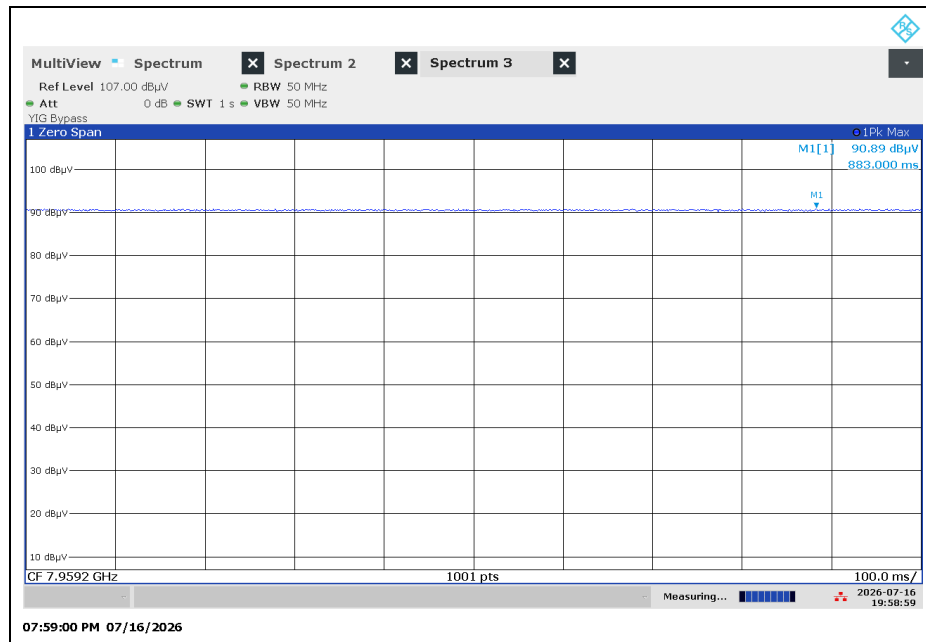


Average emission

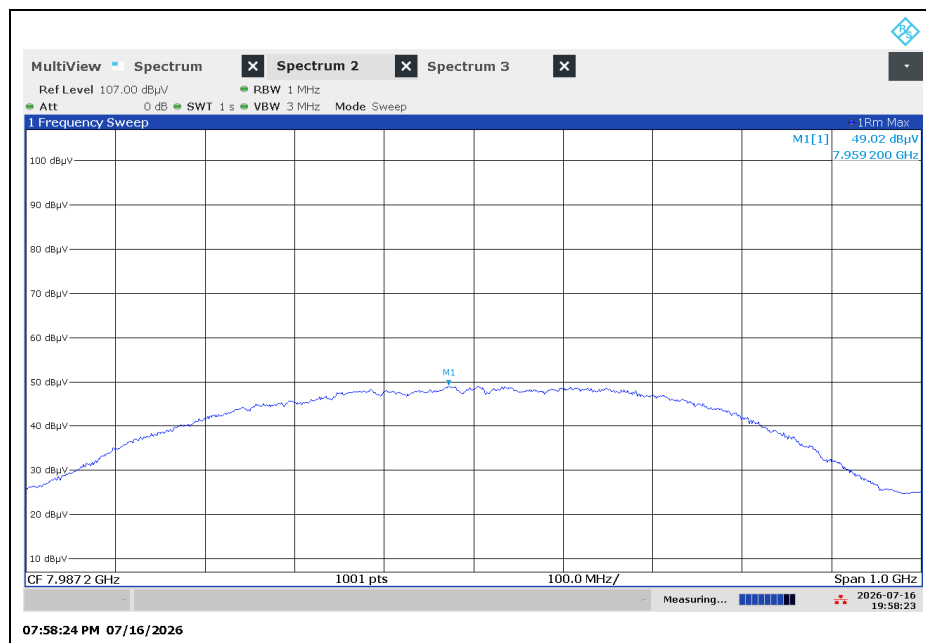


- SP0_BPRF 4_Preamble 12

Maximum Peak power

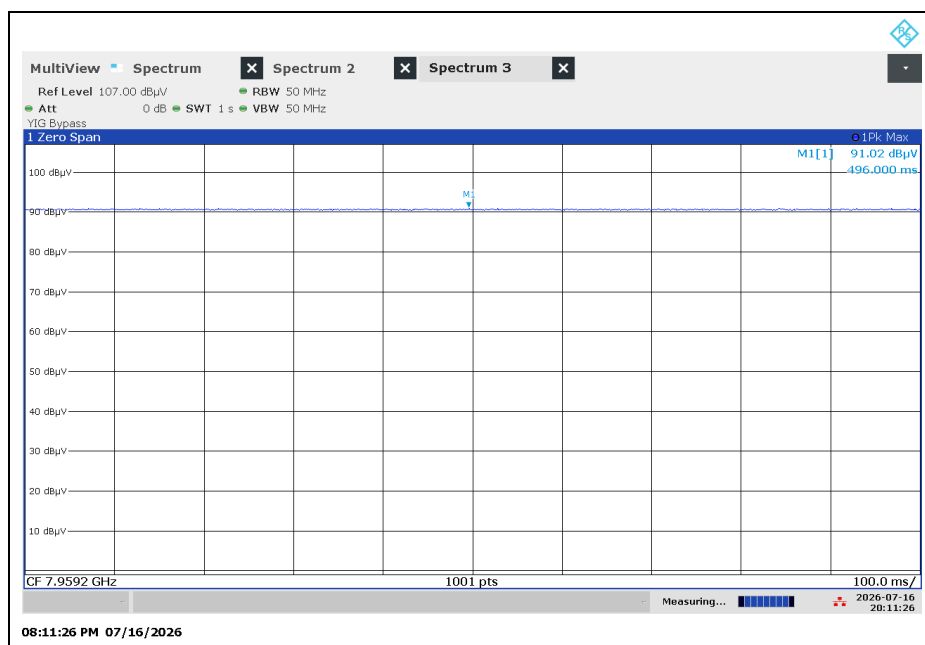


Average emission

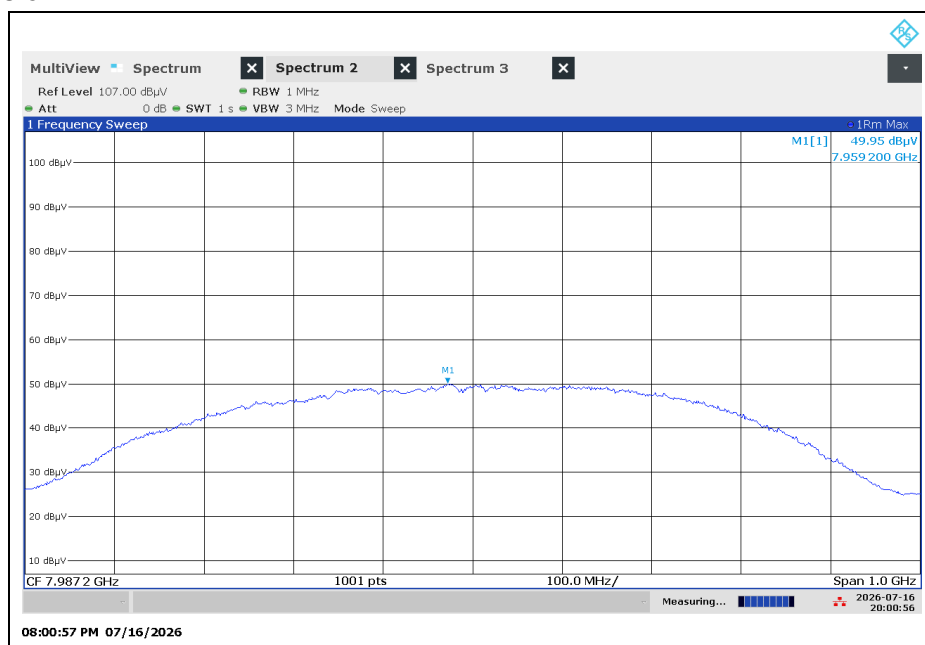


- SP0_BPRF 20_Preamble 9

Maximum Peak power

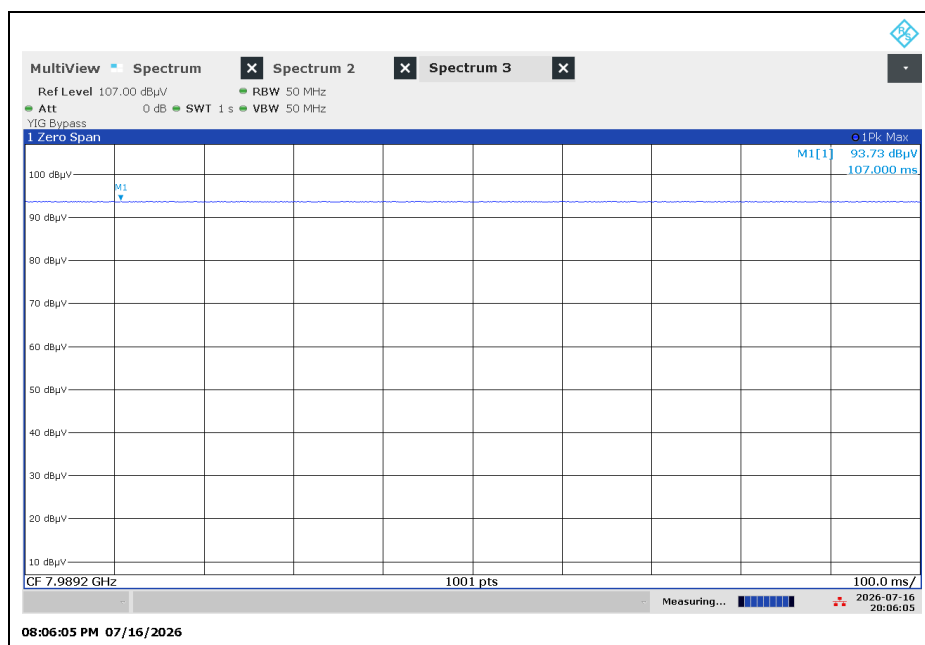


Average emission

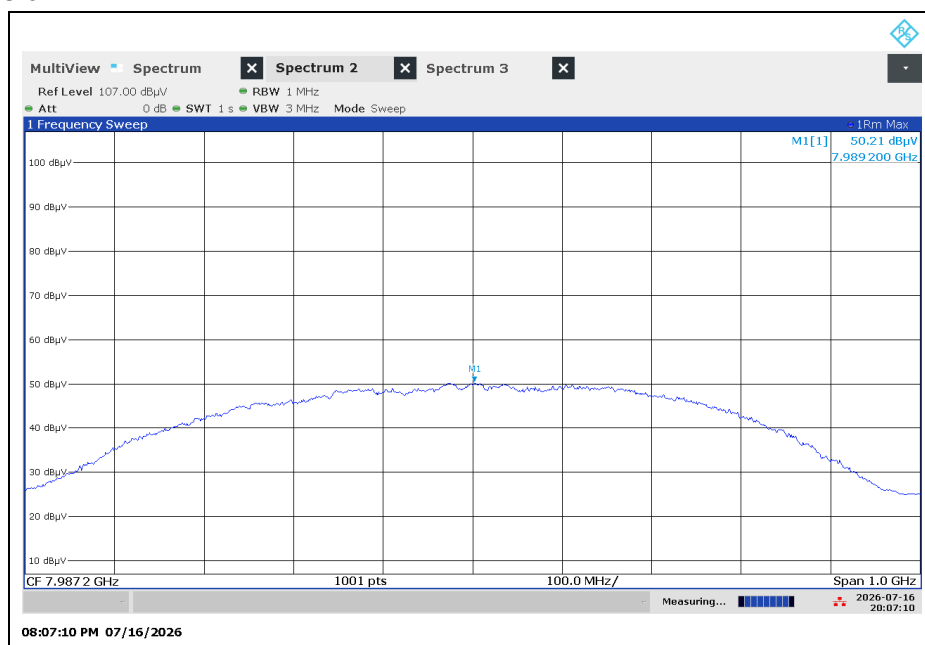


- SP0_BPRF 20_Preamble 10

Maximum Peak power

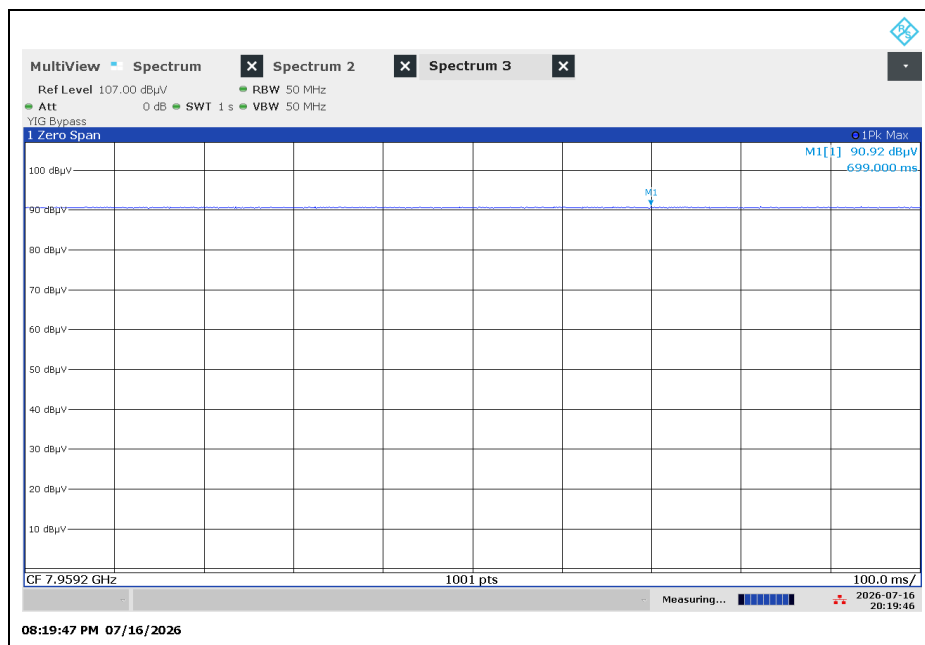


Average emission

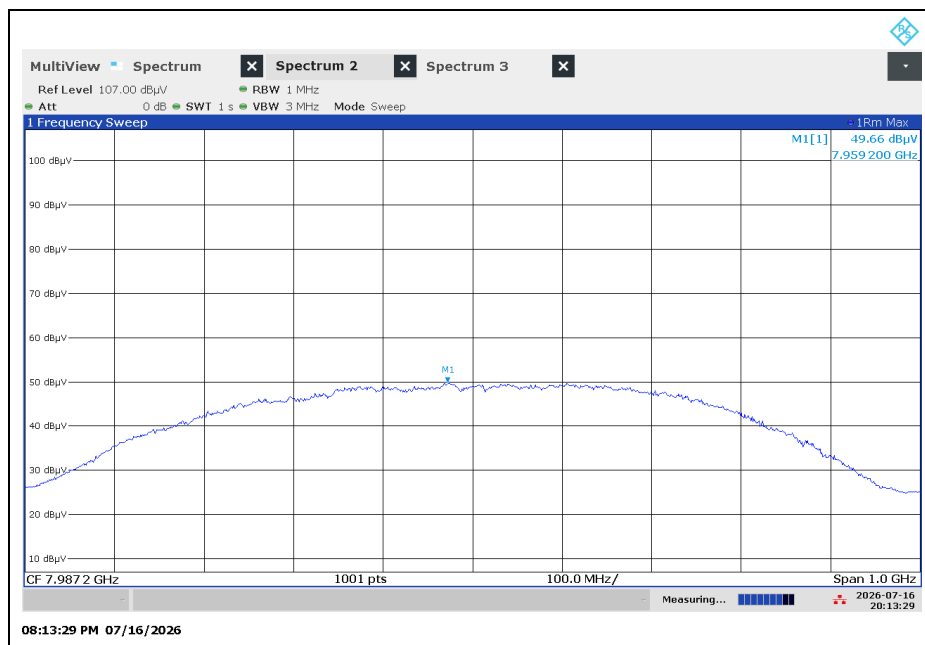


- SP0_BPRF 20_Preamble 11

Maximum Peak power

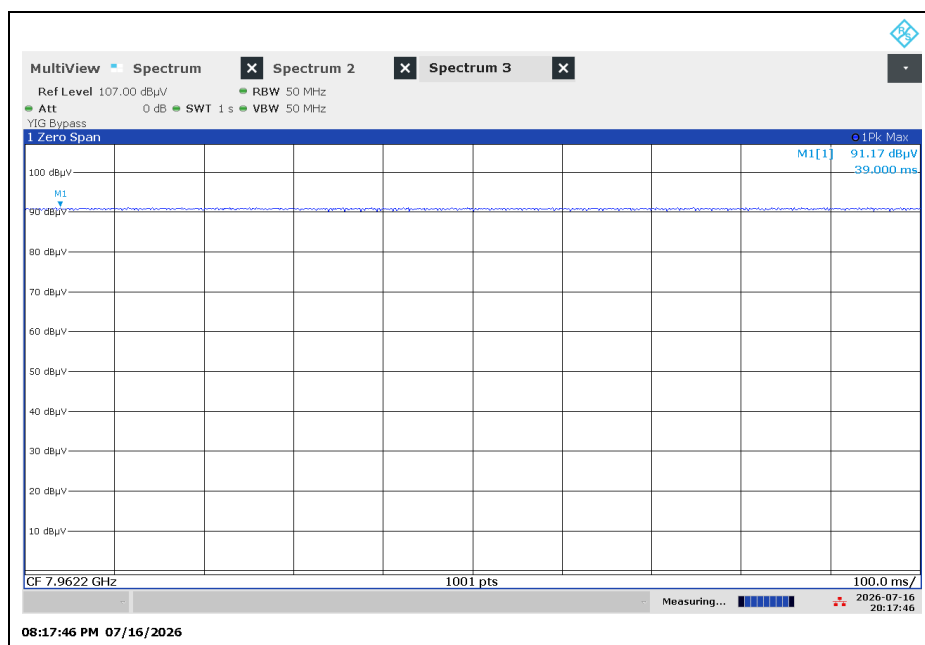


Average emission

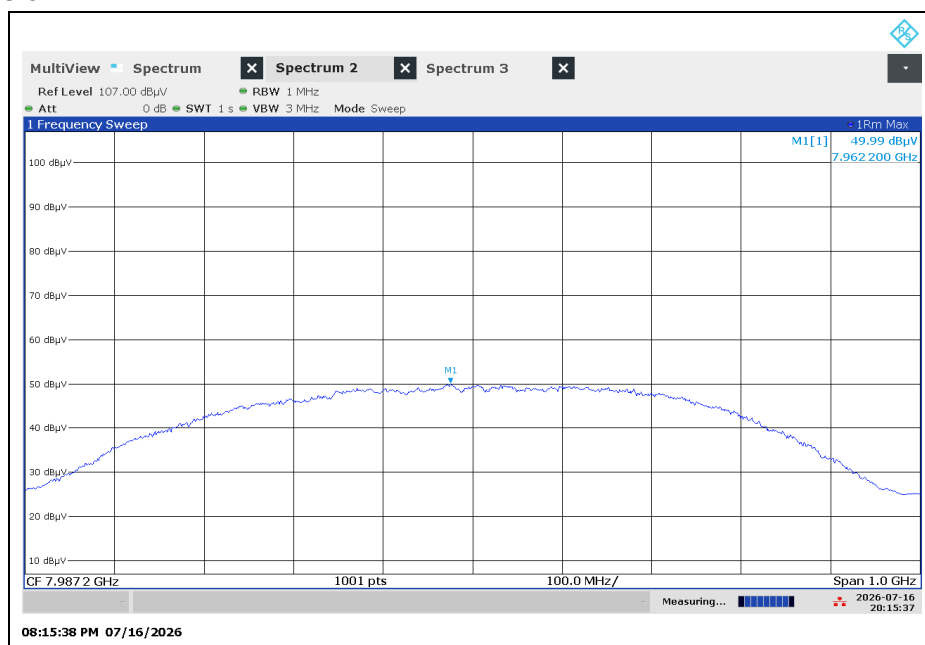


- SP0_BPRF 20_Preamble 12

Maximum Peak power

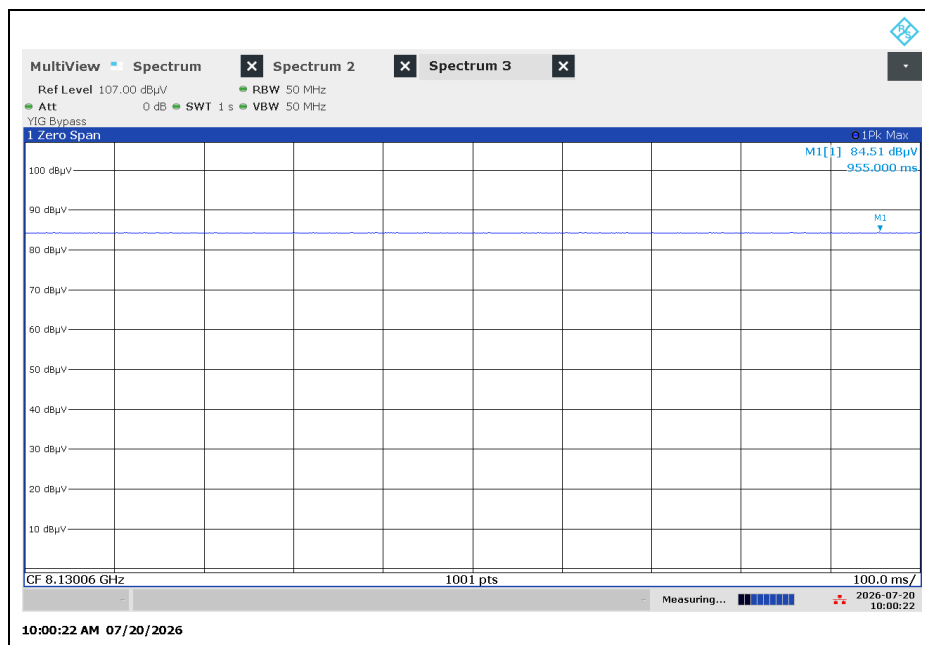


Average emission

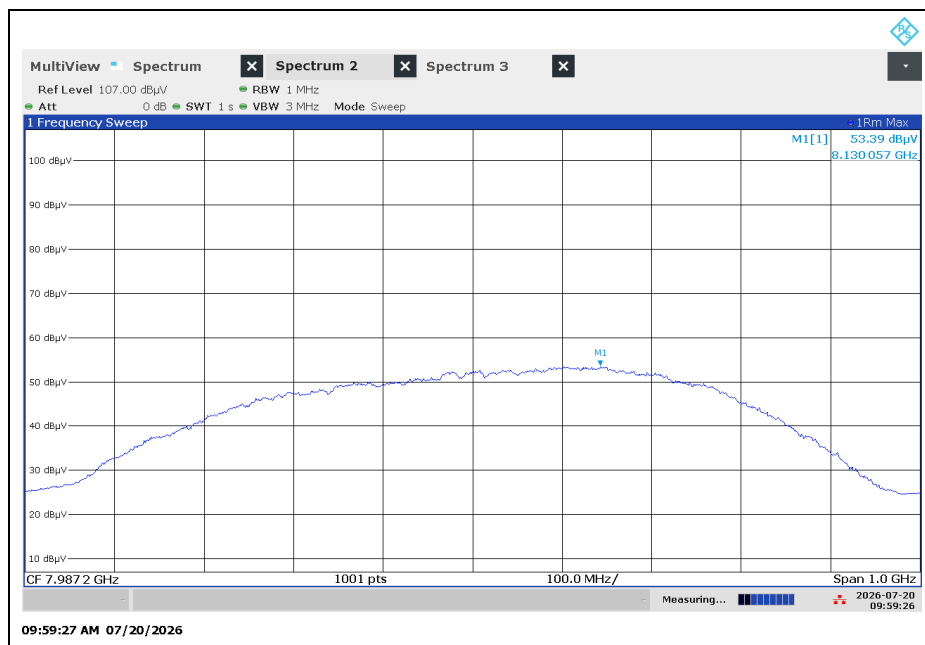


- SP3_BPRF 20_Preamble 9

Maximum Peak power

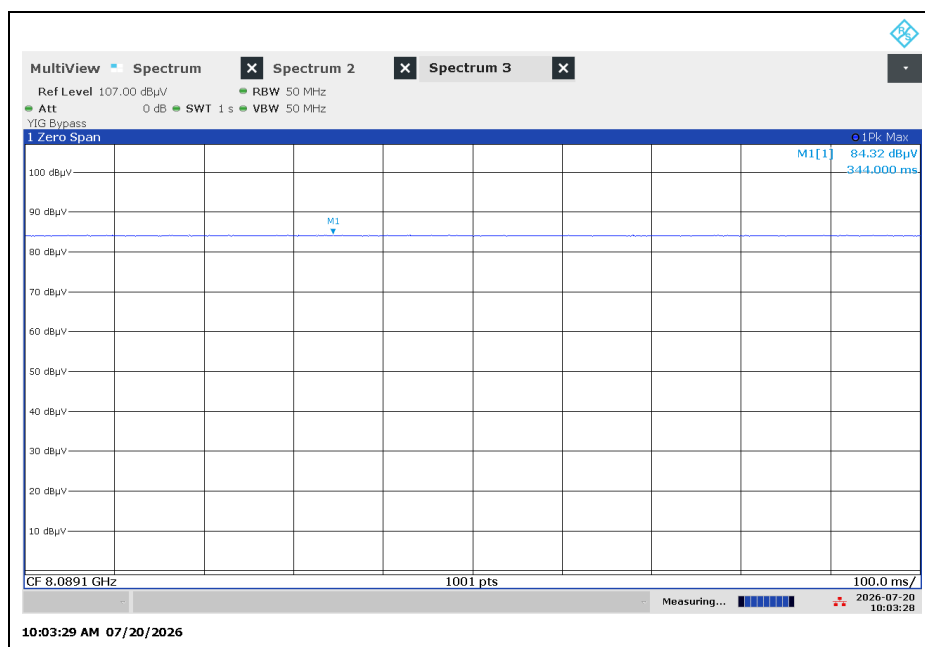


Average emission

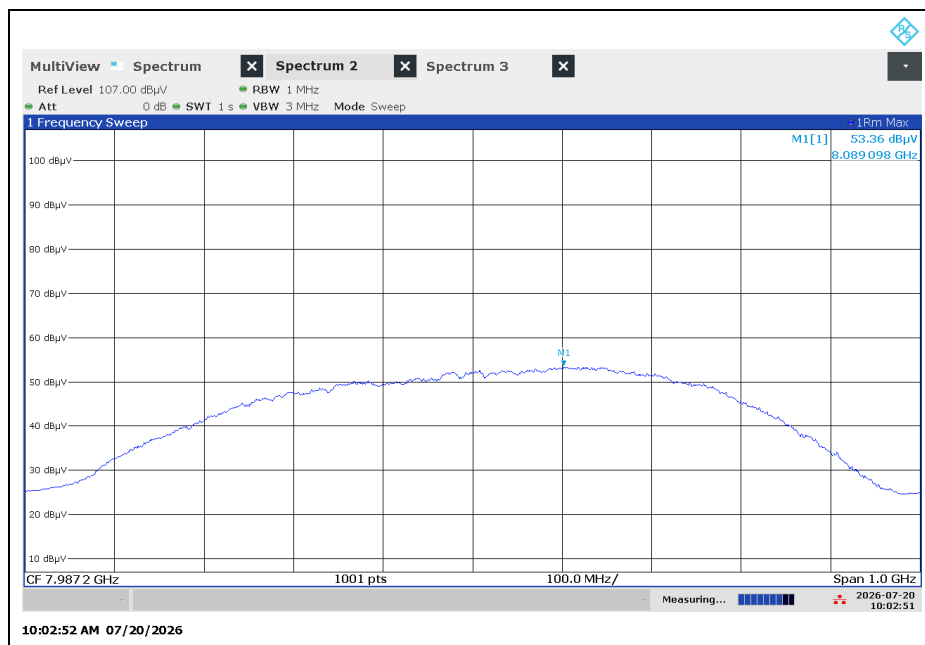


- SP3_BPRF 20_Preamble 10

Maximum Peak power

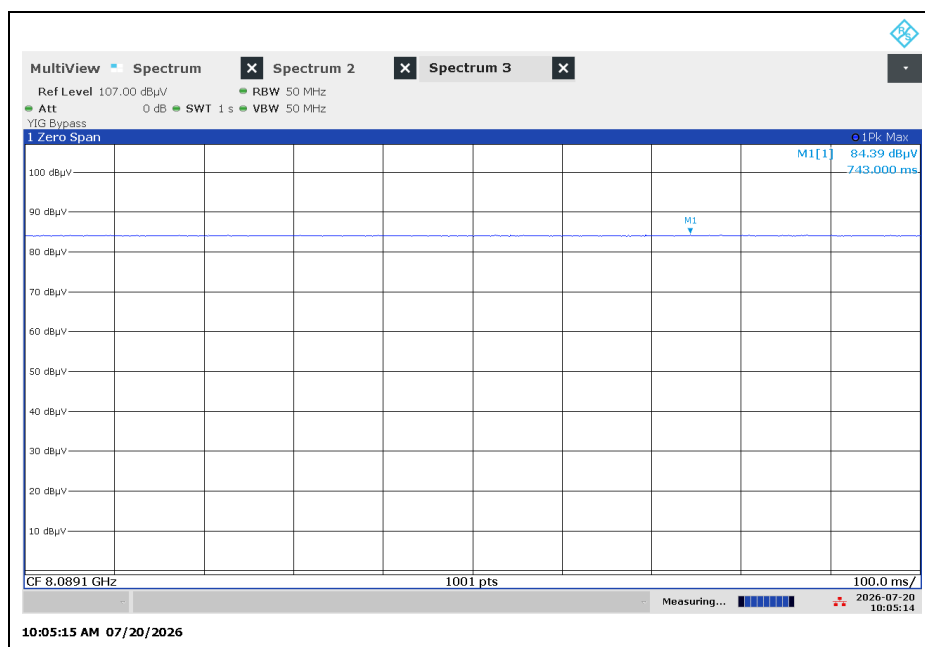


Average emission

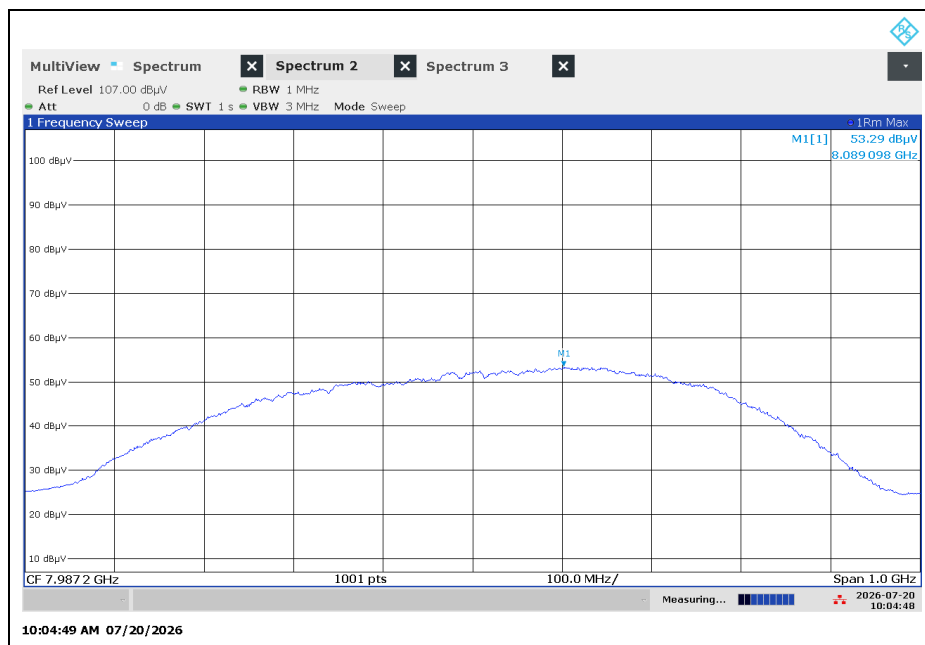


- SP3_BPRF 20_Preamble 11

Maximum Peak power

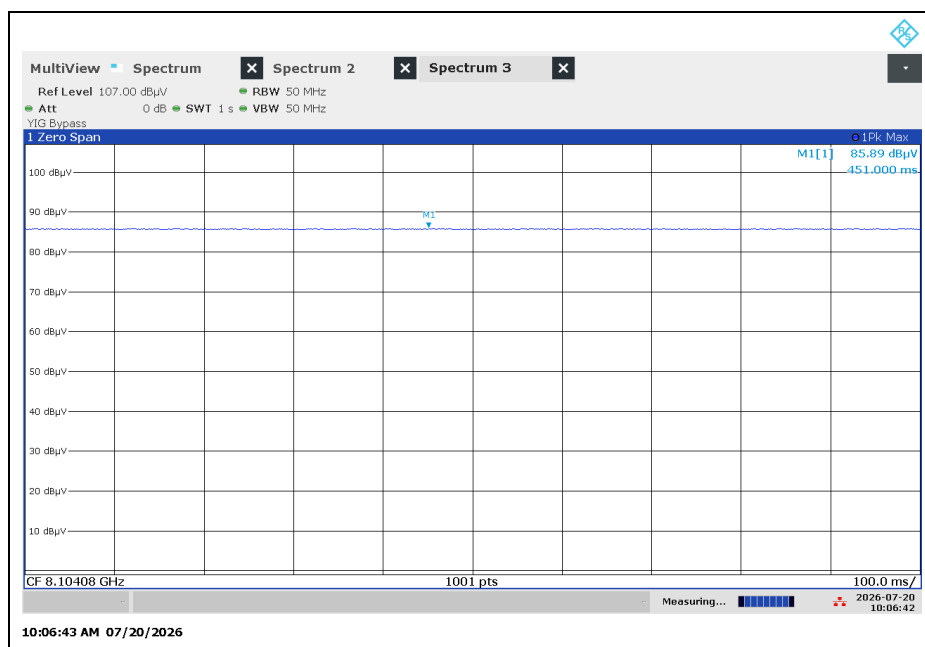


Average emission

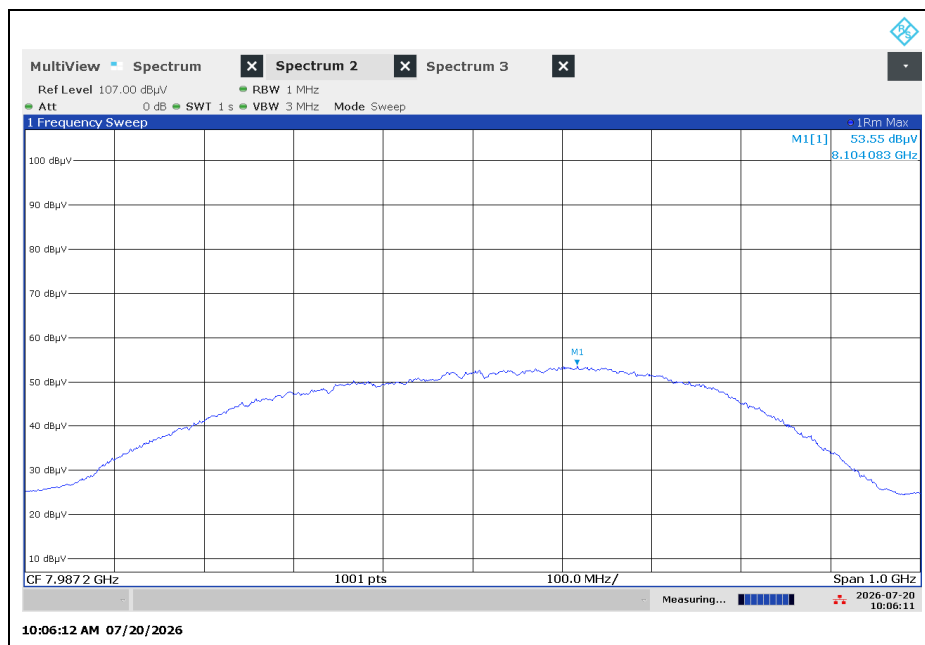


- SP3_BPRF 20_Preamble 12

Maximum Peak power



Average emission



2.4.2. Radiated Spurious Emission below 960 MHz

The frequency spectrum from 9 kHz to 960 MHz was investigated.

Radiated Emissions			Ant.	Correction Factors (dB/m)	Total	Limit	
Frequency (MHz)	Reading (dB μ V)	Detect Mode	Pol.		Actual (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
945.20	23.62	Quasi Peak	V	4.81	28.43	46.00	17.57

Remark;

1. Test from 30 MHz to 1 000 MHz was performed using the software of ELEKTRA(V5.02) from Rohde & Schwarz GmbH & Co. KG.
2. Radiated spurious emission measurement as below.
(Actual = Reading + AF + AMP + CL)
(Correction = Antenna Factor + AMP Factor + Cable loss)
3. According to §15.31(o), emission levels are not report much lower than the limits by over 20 dB.
4. Spurious emission measurements were performed in the mode with the worst-case output power.

- Test plots

