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Test Report Date:

27 July 2026

Project Number:

1699

EMC Test Report - C2PC - C2PCPX

Applicant:



Myriota Pty Ltd.
Level 1, McEwin Building
Lot 14, North Terrace
Adelaide, SA 5000
Australia

FCC ID:

2ATKL-M2-24

Product Model Number / HVIN

M2-24

Product Name / PMN

Myriota Module

In Accordance With:

FCC 47 CFR Part 25

Satellite Communications

Approved By:

Ben Hewson, President

Celltech Labs Inc.
21-364 Lougheed Rd.
Kelowna, BC, V1X 7R8
Canada



Test Lab Certificate: 2470.01



**Industry
Canada**



IC Registration 3874A

ISED CAB ID: CA3874

FCC Registration: 608310

MRA Designation: CA3874

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1.0 DOCUMENT CONTROL

Revision History					
Samples Tested By:		Art Voss	Date(s) of Evaluation:		2 July 2026
Report Prepared By:		Art Voss	Report Reviewed By:		Ben Hewson
Report Revision	Description of Revision		Revised Section	Revised By	Revision Date
0.1	Draft Release		n/a	Art Voss	2 July 2026
0.2	Revised conducted power and emissions mask		7,9	Art Voss	8 July 2026
0.3	Removed duplicate plot entries		7,8,9	Art Voss	9 July 2026
1.0	Initial Release		n/a	Art Voss	14 July 2026
2.0	Corrected CAB ID		Cover	Art Voss	27 July 2026
	Added Radiated Spurious Emissions Pre-Scan		10		

2.0 CLIENT AND DUT INFORMATION

Client Information	
Applicant Name	Myriota Pty Ltd
Applicant Address (FCC)	Level 1, McEwin Building
	Lot 14, North Terrace
	Adelaide, SA 5000
	Australia
DUT Information	
Device Identifier(s):	FCC ID: 2ATKL-M2-24
Device Type:	Satellite Communication Module
Equipment Class (FCC):	Licensed Non-Broadcast Station Transmitter (TNB)
Device Model(s) / HVIN:	M2-24
Device Marketing Name / PMN:	Myriota Module
Firmware Version ID Number / FVIN:	n/a
Host Marketing Name / HMN:	n/a
Test Sample Serial No.:	T/A Sample - Identical Prototype
Transmit Frequency Range:	399.907 - 400.043MHz
Number of Channels:	n/a
Manuf. Max. Rated Output Power:	0.5W, 27dBm
Manuf. Max. Rated BW/Data Rate:	7kHz
Antenna Make and Model:	n/a
Antenna Type and Gain: *	Monopole Whip, 6dBi
Modulation:	MSK
Mode:	n/a
DUT Power Source:	3.6VDC
Deviation(s) from standard/procedure:	None
Modification of DUT:	None

* Information on Antenna Type and Gain provided by applicant.

3.0 SCOPE

Preface:

This Certification Report was prepared on behalf of:

Myriota Pty Ltd

,(the '*Applicant*'), in accordance with the applicable Federal Communications Commission (FCC) CFR 47 and Innovation, Scientific and Economic Development (ISED) Canada rules parts and regulations (the '*Rules*'). The scope of this investigation was limited to only the equipment, devices and accessories (the '*Equipment*') supplied by the *Applicant*. The tests and measurements performed on this *Equipment* were only those set forth in the applicable *Rules* and/or the Test and Measurement Standards they reference. The *Rules* applied and the Test and Measurement Standards used during this evaluation appear in the Normative References section of this report. The limits set forth in the technical requirements of the applicable *Rules* were applied to the measurement results obtained during this evaluation and ,unless otherwise noted, these limits were used as the Pass/Fail criteria. The Pass/Fail statements made in this report apply to only the tests and measurements performed on only the *Equipment* tested during this evaluation. Where applicable and permissible, information including test and measurement data and/or results from previous evaluations of same or similar equipment, devices and/or accessories may be cited in this report.

Device:

The HVIN: M2-24, PMN: Myriota Module is a Single TNB / Mobile Earth Station (MES) transceiver operating in the Earth-to-Space frequency band of 399.9 to 400.05MHz. The RF Power Amplifier (PA) has been replaced due to end-of-life of the existing PA. It has been replaced with a non Pin-For-Pin compatible PA.

Requirement:

As per FCC 47 CFR Part 2, Subpart J, certification is required in accordance with FCC 47 CFR Part 25. As per FCC 47 CFR §2.1091 an RF Exposure (MPE) evaluation is required for this *Equipment* and the results of the RF Exposure (MPE) evaluation appear in this report. Due to the nature of the change, an FCC C2PCPX and an FCC PAG is required.

Scope:

The scope of this investigation is limited to the evaluation of the antenna port conducted power, occupied bandwidth and emissions mask, and antenna port conducted spurious emissions to ensure the device remains compliant to the rule parts cited in this report.

Application:

This is an application for a C2PCPX.

4.0 TEST RESULT SUMMARY

TEST SUMMARY					
Section	Description of Test	Procedure Reference	Applicable Rule Part(s) FCC	Test Date	Result
7.0	Conducted Power (Fundamental)	ANSI C63.26-2015	§2.1046 §25.204	2 July 2026	Pass
8.0	Occupied Bandwidth	ANSI C63.26-2015	§2.1049	2 July 2026	Pass
9.0	Emissions Mask Conducted Tx Spurious Emissions	ANSI C63.26-2015	§2.1051 §25.202(f)	2 July 2026	Pass

Test Station Day Log					
Date	Ambient Temp (°C)	Relative Humidity (%)	Barometric Pressure (kPa)	Test Station	Tests Performed Section(s)
2 July 2026	26.6	34	101.1	EMC	7, 8, 9

EMC - EMC Test Bench

OATS - Open Area Test Site

LISN - LISN Test Area

IMM - Immunity Test Area

SAC - Semi-Anechoic Chamber

TC - Temperature Chamber

ESD - ESD Test Bench

RI - Radiated Immunity Chamber

I attest that the data reported herein is true and accurate within the tolerance of the Measurement Instrument Uncertainty; that all tests and measurements were performed in accordance with accepted practices or procedures; and that all tests and measurements were performed by me or by trained personnel under my direct supervision. The results of this investigation are based solely on the test sample(s) provided by the client which were not adjusted, modified or altered in any manner whatsoever, except as required to carry out specific tests or measurements. This test report has been completed in accordance with ISO/IEC 17025.



Art Voss, P.Eng., Ret
Technical Manager
Celltech Labs Inc.

2 July 2026

Date

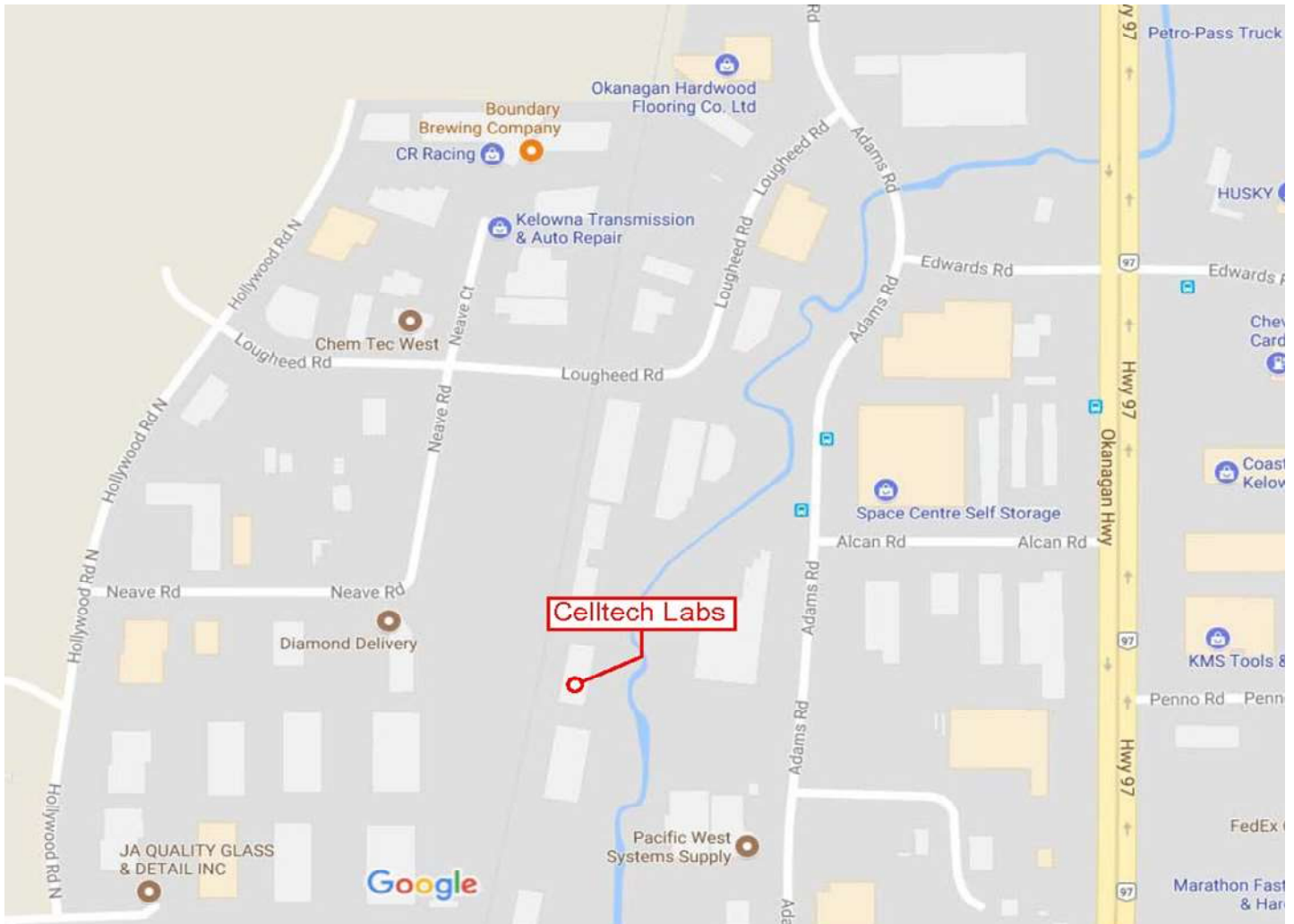
5.0 NORMATIVE REFERENCES

Normative References	
ISO/IEC 17025:2017	General requirements for the competence of testing and calibration laboratories
ANSI C63.26-2015	American National Standard of Procedures for Compliance Testing of Licensed Wireless Devices
CFR	Code of Federal Regulations Title 47: Telecommunication Part 2: Frequency Allocations and Radio Treaty Matters; General Rules and Regulations
CFR	Code of Federal Regulations Title 47: Telecommunication Part 25: Satellite Communications

6.0 FACILITIES AND ACCREDITATIONS

Facility and Accreditation:

The facilities used to evaluate this device outlined in this report are located at 21-364 Lougheed Road, Kelowna, British Columbia, Canada V1X 7R8. The radiated emissions site (OATS) conforms to the requirements set forth in ANSI C63.4 and is filed and listed with the FCC under Test Firm Registration Number CA3874 and Innovation, Science and Economic Development Canada under Test Site File Number ISED 3874A. Celltech is accredited to ISO 17025, through accrediting body A2LA and with certificate 2470.01.



7.0 CONDUCTED POWER

Test Procedure

Normative Reference	FCC 47 CFR §2.1046, §25.204, RSS-Gen (6.12), RSS-170 ANSI C63.26 (5.2.4.4.1)
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Limits

47 CFR §25.204	40dBW
RSS-170 (5.3.2)	The maximum permissible e.i.r.p. will be the stated e.i.r.p. plus a 2 dB margin

General Procedure

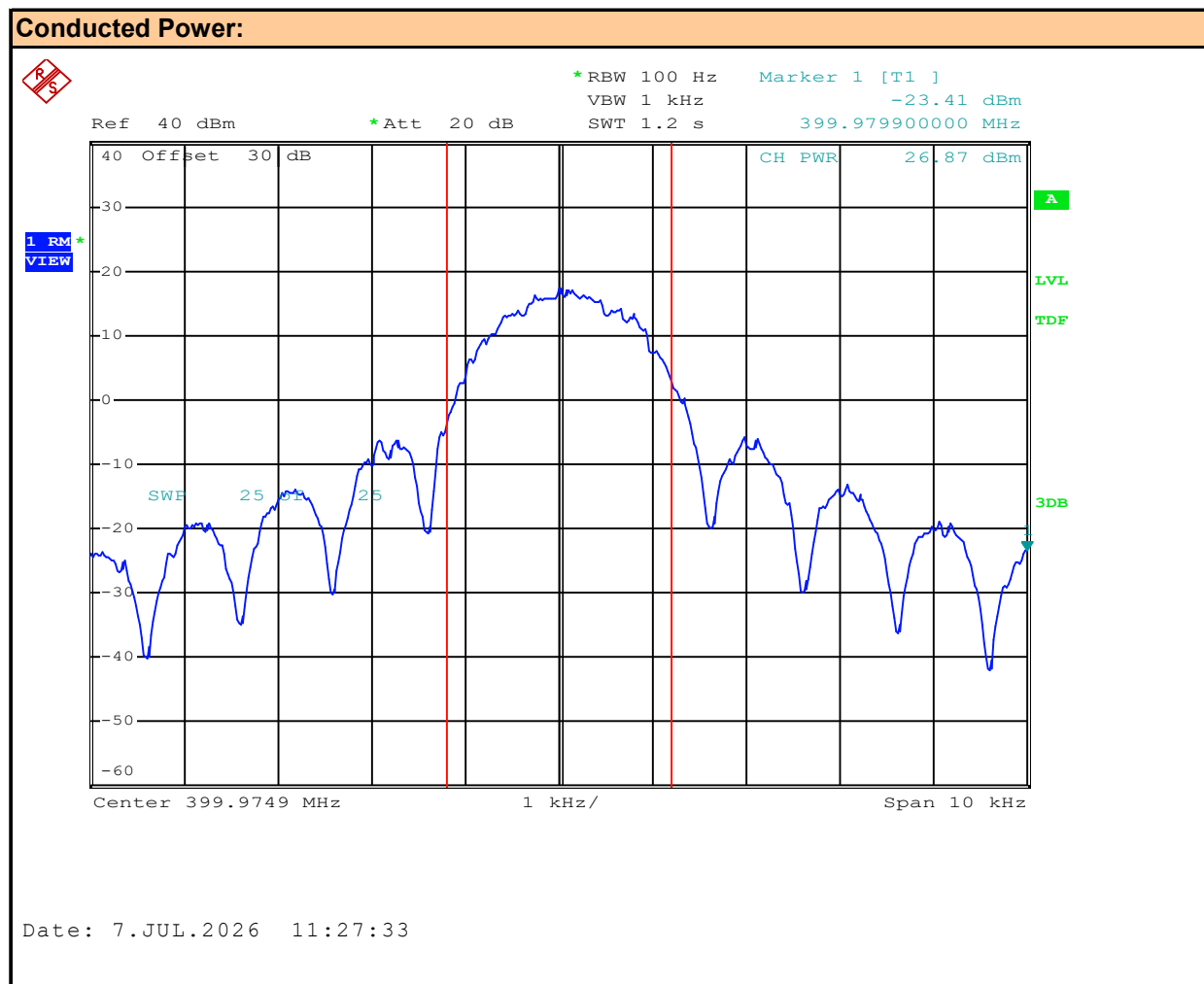
ANSI C63.26	5.2.4.4.1 General Compute the power by integrating the spectrum across the OBW of the signal using the instrument's band or channel power measurement function, with the band/channel limits set equal to the OBW band edges.
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Test Setup	Appendix A - Figure A.1
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Measurement Procedure

The DUT was connected to a Spectrum Analyzer (SA) via a 30dB attenuator connected to the DUT's antenna port. The SA was configured as above using the Channel Power measurement function. The output power of the DUT was set to the manufacturer's highest output power setting. The DUT was set to transmit at its maximum Duty Cycle.

Plot 7.1 – Conducted Output Power



Channel:	n/a
Mode:	MSK

Channel Frequency:	399.975	MHz
Measured Channel Power:	26.87	dBm

Table 7.1 – Summary of Conducted Power Measurements (RMS)

Channel EIRP (RMS)									
Frequency	BW	Modulation	Measured Power	Antenna Gain ⁽¹⁾	Cable Loss	EIRP	EIRP	Limit	Margin
(MHz)	(kHz)		[E _{Meas}] (dBm)	[G _T] (dBi)	[L _c] (dB)	(dBm)	(dBW)	(dBW)	(dB)
399.975	2.4	MSK	26.87	6	0.5	33.37	3.37	40.0	36.6
Result:								Complies	

$$\text{EIRP (dBm)} = E_{\text{Meas}} + G_T + L_C$$

$$\text{Margin} = \text{Limit} - \text{EIRP in dB}$$

(1) Information on Antenna Gain provided by Applicant

Table 7.2 – Compliance to §2.1033(c)(8)

FCC CFR 47 §2.1033(c)(8): Power to Transmitter:	
Measured Receiver Current:	IRx = 0.01A
Measured Total Current:	ITx = 0.43A
Transmitter Current (ITx - IRx):	IXmitter = 0.42A
Power to Transmitter:	(3.6VDC)(0.42) = 1.5W
Result:	Complies

8.0 OCCUPIED BANDWIDTH

Test Conditions

Normative Reference	FCC 47 CFR §2.1049, RSS-Gen (6.7)
	ANSI C63.26 5.4.4

Limits

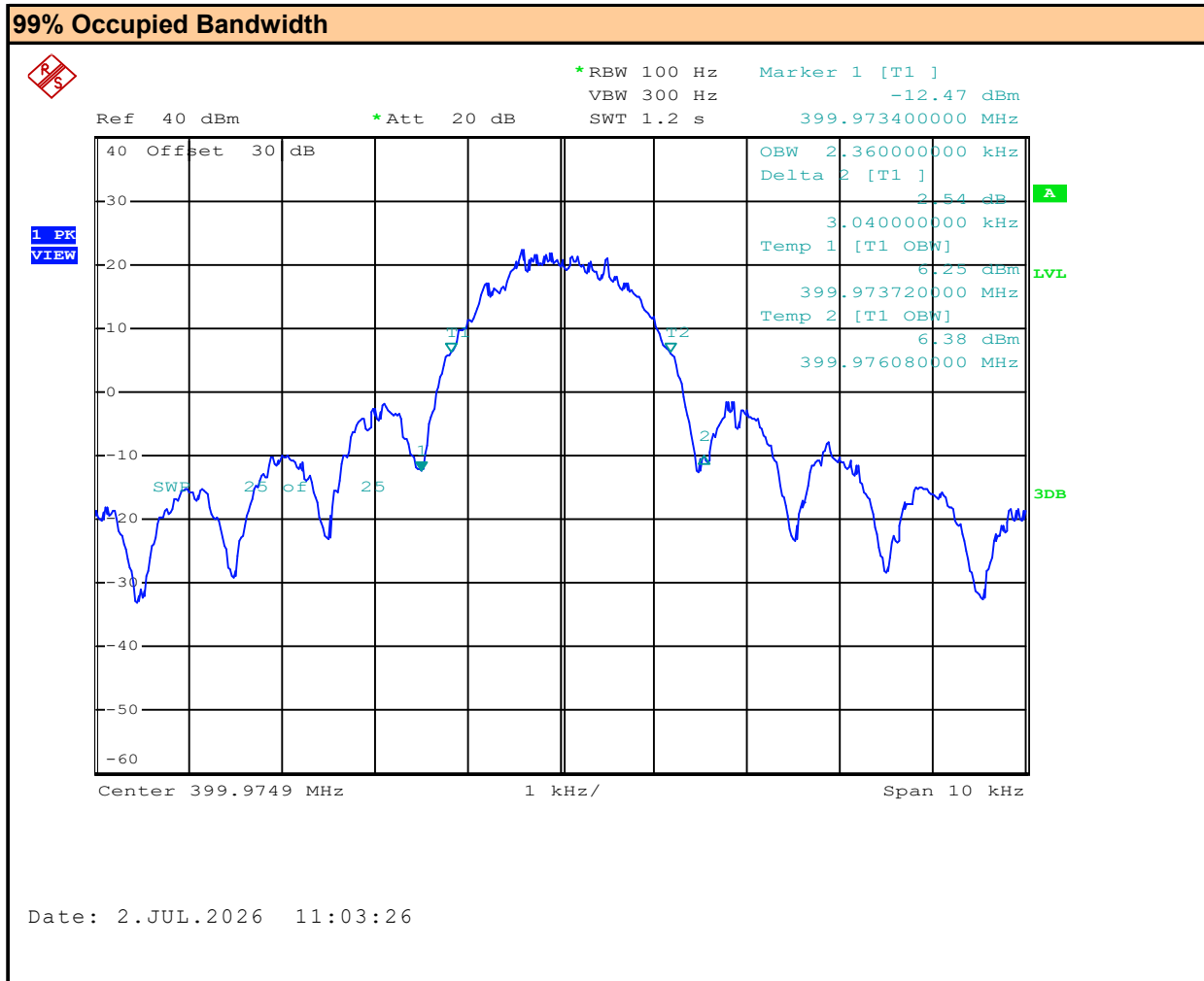
47 CFR §25	n/a
RSS-170	n/a

Measurement Procedure

ANSI C63.26 5.4.4	The OBW is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5% of the total mean power of the given emission.
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Test Setup	Appendix A	Figure A.1
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Plot 8.1 – Occupied Bandwidth



Channel: **n/a**
Mode: **MSK**

Channel Frequency: **399.975** MHz
Measured Occupied Bandwidth: **2.36** kHz

Table 8.1 - Summary of Occupied Bandwidth

Occupied Bandwidth Measurements				
Frequency (MHz)	Bandwidth Setting (MHz)	Modulation	Measured OBW (MHz)	Emission Designator
399.98	Max	MSK	2.36	2K36G1D

9.0 CONDUCTED OUT OF BAND SPURIOUS EMISSIONS, EMISSIONS MASK

Test Conditions

Normative Reference	FCC 47 CFR §2.1051, §25.202(f), RSS-Gen, RSS-170 (5.4.3.1)
	ANSI C63.26 5.7.3

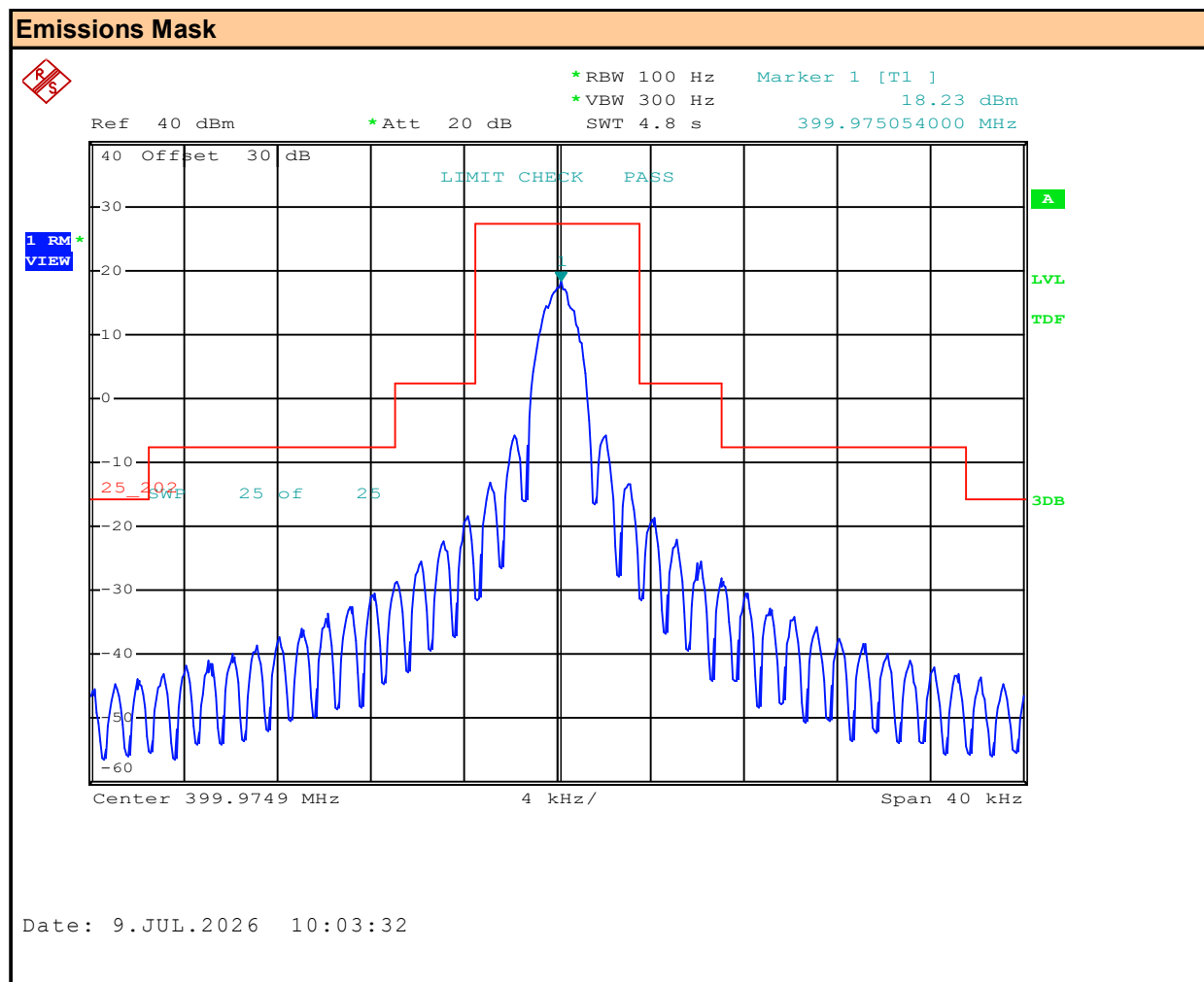
Limits

47 CFR §25	(f) Emission limitations. Except for SDARS terrestrial repeaters and as provided for in paragraph (i), the mean power of emissions shall be attenuated below the mean output power of the transmitter in accordance with the schedule set forth in paragraphs (f)(1) through (f)(4) of this section. The out-of-band emissions of SDARS terrestrial repeaters shall be attenuated in accordance with the schedule set forth in paragraph (h) of this section. (1) In any 4 kHz band, the center frequency of which is removed from the assigned frequency by more than 50 percent up to and including 100 percent of the authorized bandwidth: 25 dB; (2) In any 4 kHz band, the center frequency of which is removed from the assigned frequency by more than 100 percent up to and including 250 percent of the authorized bandwidth: 35 (3) In any 4 kHz band, the center frequency of which is removed from the assigned frequency by more than 250 percent of the authorized bandwidth: An amount equal to 43 dB plus 10 times the logarithm (to the base 10) of the transmitter power in watts;
RSS-170	5.4.3.1. Mobile Earth Stations in All Frequency Bands The average power of unwanted emissions shall be attenuated below the average output power, P (dBW), of the transmitter, as specified below: (1) 25 dB in any 4 kHz band, the centre frequency of which is offset from the channel frequency by more than 50%, up to and including 100% of the occupied bandwidth or necessary bandwidth, whichever is greater; (2) 35 dB in any 4 kHz band, the centre frequency of which is offset from the channel frequency by more than 100%, up to and including 250% of the occupied bandwidth or necessary bandwidth, whichever is greater; and (3) 43 + 10 log p (watts) in any 4 kHz band, the centre frequency of which is offset from the channel frequency by more than 250% of the occupied bandwidth or necessary bandwidth, whichever is greater.

Measurement Procedure

ANSI C63.26 5.7.3	See applicable procedure
Test Setup	Appendix A Figure A.1

Plot 9.1 – Conducted Out of Band Emissions, Emission Mask

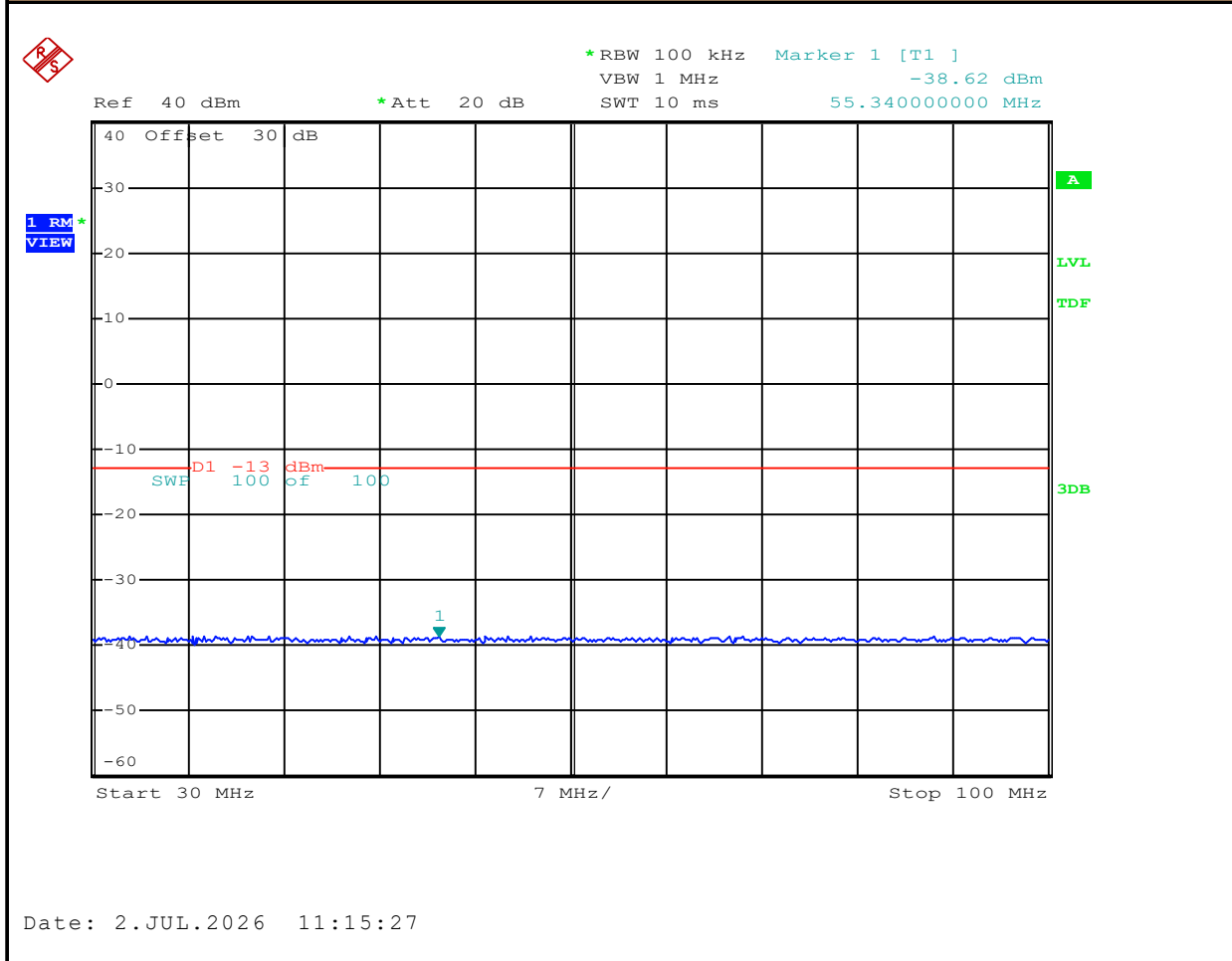


Channel:	n/a
Mode:	MSK

Channel Frequency: 399.975 MHz
Mask Results: Pass kHz

Plot 9.2 – Conducted Out of Band Emissions, 30 – 100MHz

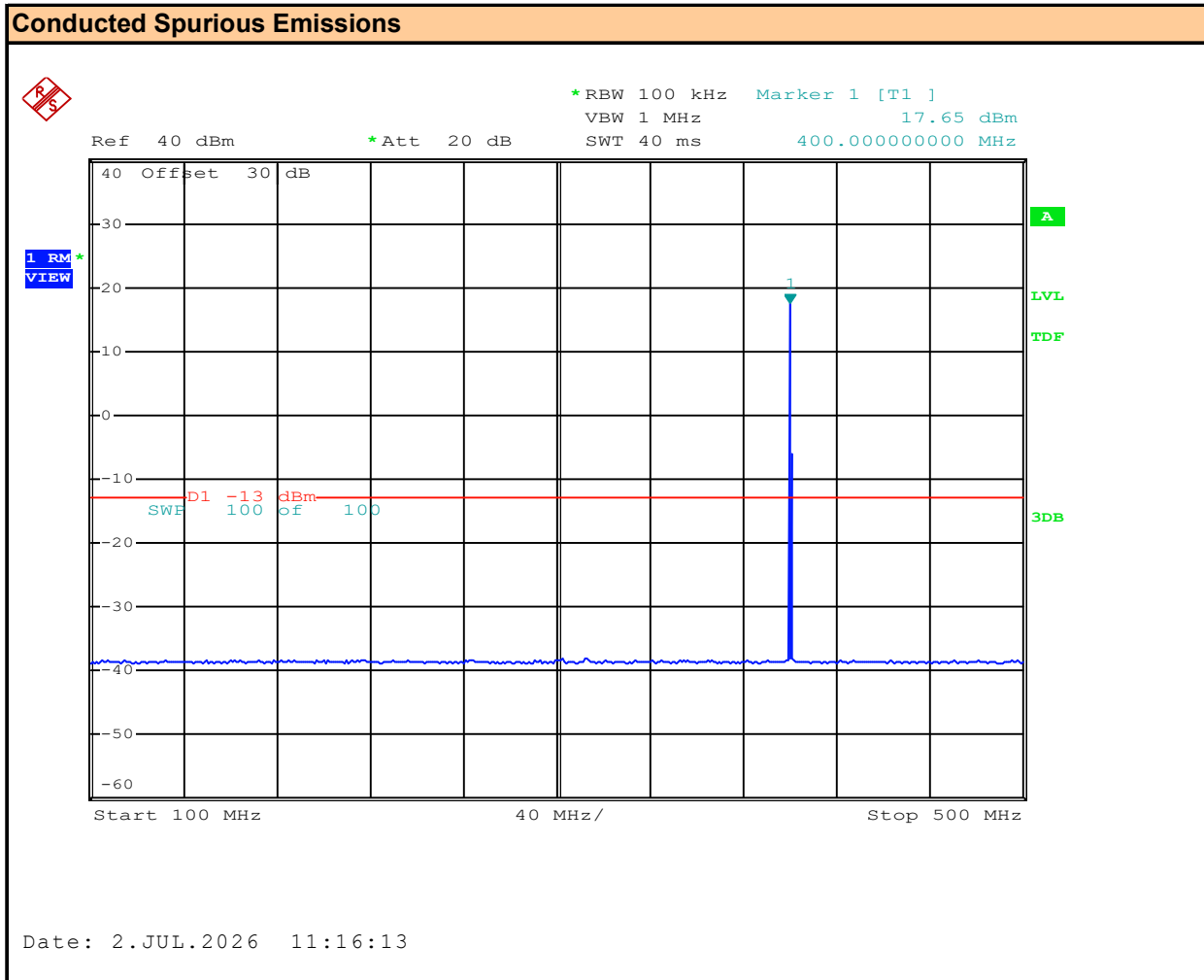
Conducted Spurious Emissions



Channel: **n/a**
Mode: **MSK**

Channel Frequency: **399.975** MHz
Emission Frequency: **ND** MHz
Emission Amplitude: **ND** dBm

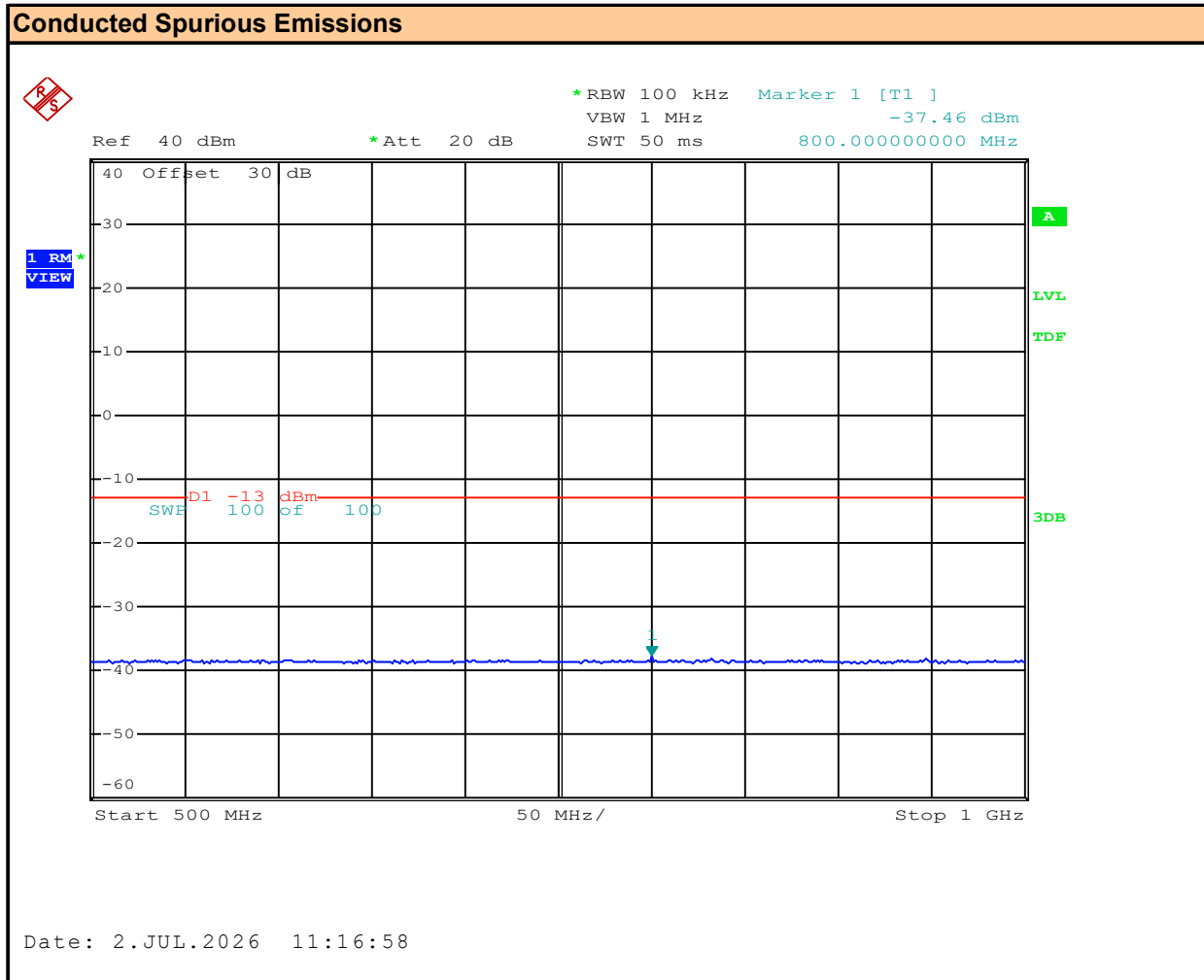
Plot 9.3 – Conducted Out of Band Emissions, 100 – 500MHz



Channel: **n/a**
Mode: **MSK**
Marker 1 = Fundamental

Channel Frequency: **399.975** MHz
Emission Frequency: **ND** MHz
Emission Amplitude: **ND** dBm

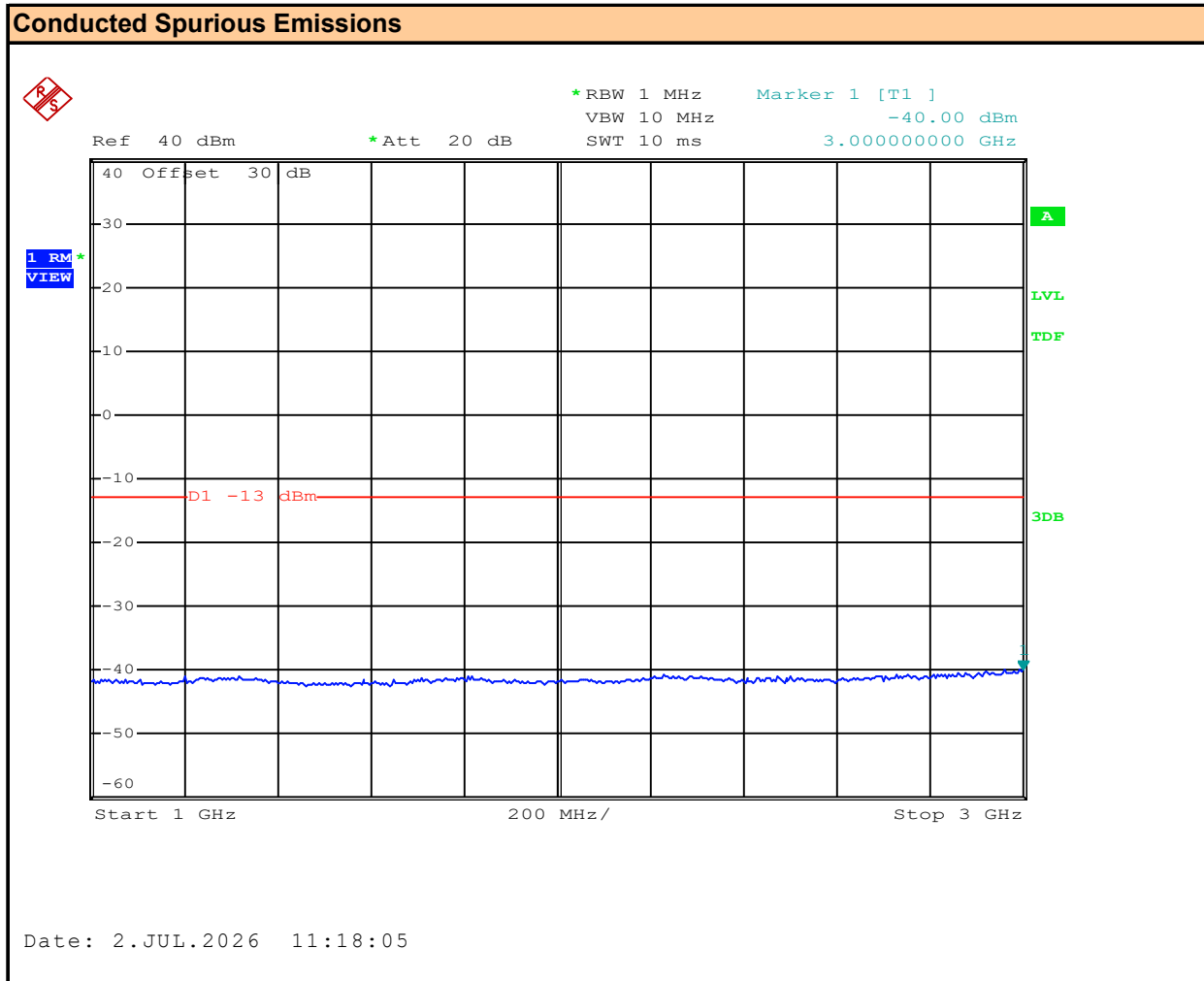
Plot 9.4 – Conducted Out of Band Emissions, 500 - 1000MHz



Channel: **n/a**
Mode: **MSK**

Channel Frequency: **399.975** MHz
Emission Frequency: **ND** MHz
Emission Amplitude: **ND** dBm

Plot 9.5 – Conducted Out of Band Emissions, 1 - 3GHz



Channel:

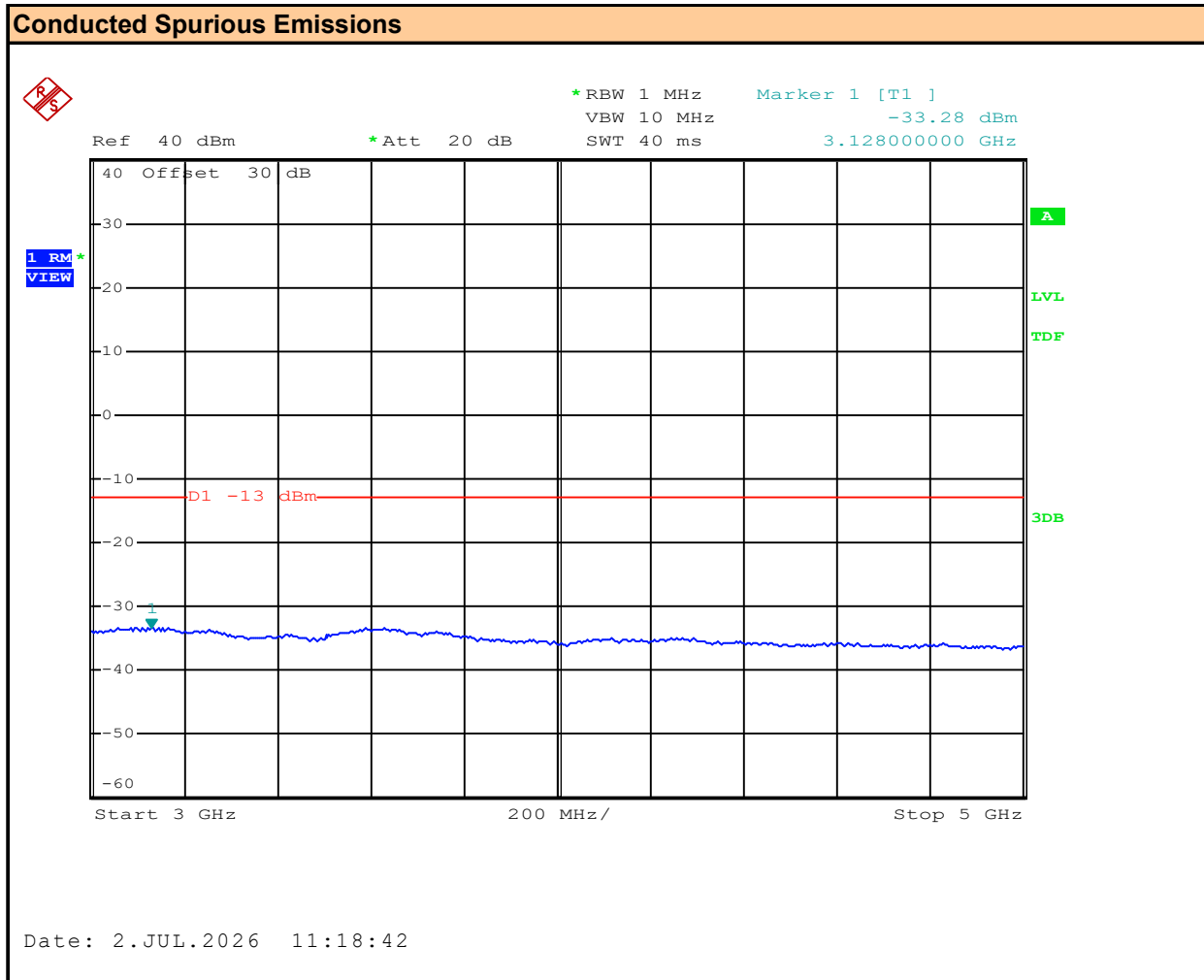
Mode:

Channel Frequency: MHz

Emission Frequency: MHz

Emission Amplitude: dBm

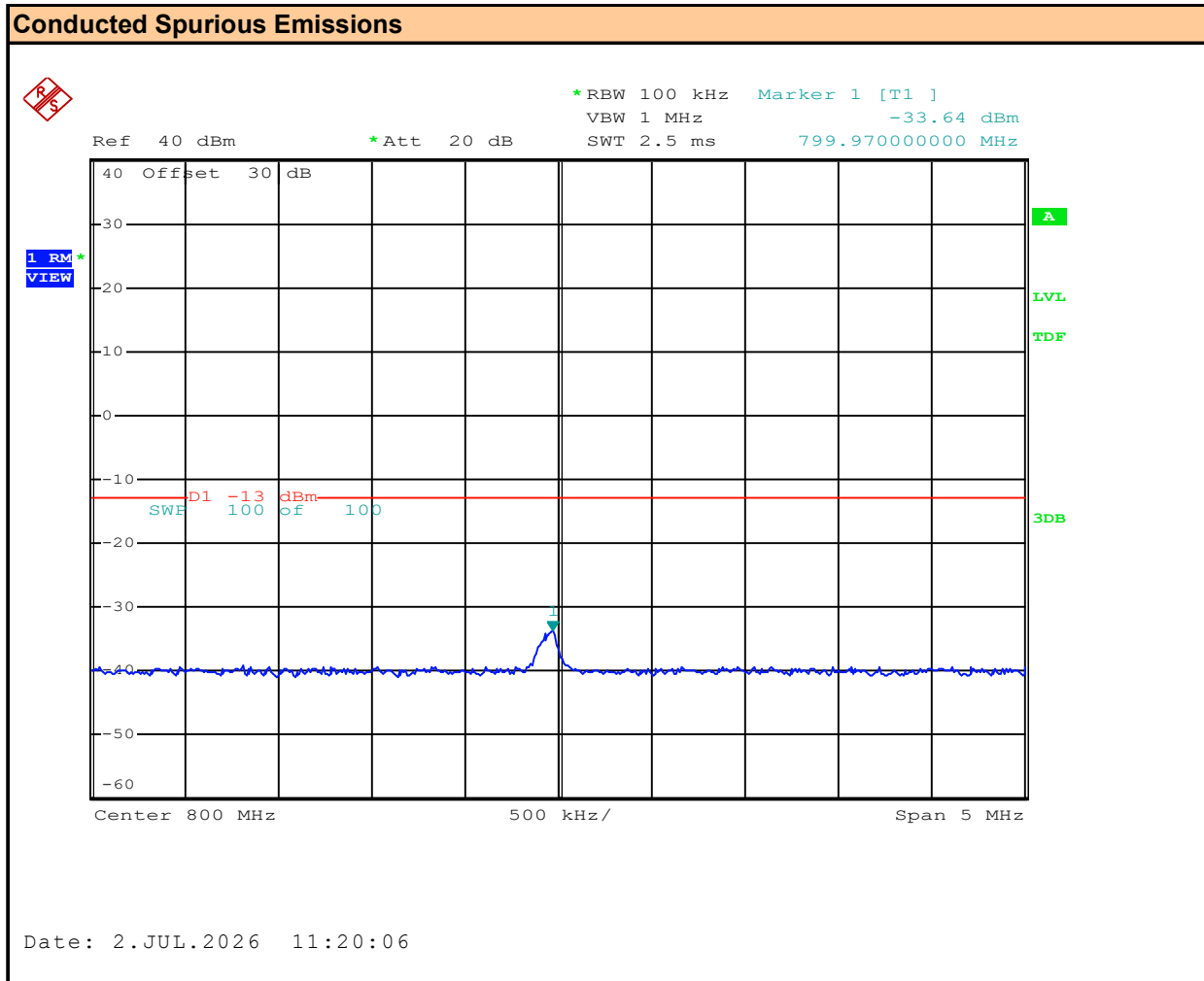
Plot 9.6 – Conducted Out of Band Emissions, 3 - 5GHz



Channel: **n/a**
Mode: **MSK**

Channel Frequency: **399.975** MHz
Emission Frequency: **ND** MHz
Emission Amplitude: **ND** dBm

Plot 9.7 – Conducted Out of Band Emissions, 2nd Harmonic



Channel: **n/a**
Mode: **MSK**

Channel Frequency: **399.975** MHz
Emission Frequency: **799.97** MHz
Emission Amplitude: **-33.64** dBm

Table 9.1 – Summary of Conducted Out of Band Emissions

Conducted Spurious Emissions									
Channel	Emission	Modulation	Measured Fundamental	Measured	Attenuation	Required	Margin	Emissions	
Frequency	Frequency		Power	Emission		Attenuation		Mask	
			[P _{fund}]	[P _{em}]		[Atten]		[A _R]	Result
(MHz)	(MHz)		(dBm)	(dBm)		(dBc)		(dBc)	(dB)
399.9749	799.97		MSK	26.87		-33.64		60.51	39.87
Results:								Complies	

Attenuation [Atten] = Fundamental Power [P_{fund}] - Measured Emissions [P_{em}]

Margin = Attenuation [Atten] - Required Attenuation [A_R]

ND = None Detected

Conducted Spurious Emissions - Emissions Mask Results								
Channel Frequency (MHz)	Emission Channel	Modulation	Measured Fundamental Power [P _{fund}] (dBm)	Measured Emission [P _{em}] (dBm)	Attenuation [Atten] (dBc)	Required Attenuation [A _R] (dBc)	Margin (dB)	Emissions Mask Result ⁽¹⁾
399.974988	CH PWR	MSK	27.28	NA	NA	NA	NA	NA
399.971488	ACP Low		NA	-2.03	29.31	25	4.31	Pass
399.978488	ACP Up		NA	-1.67	28.95	25	3.95	Pass
399.967988	ALT1 Low		NA	-17.94	45.22	35	10.22	Pass
399.981988	ALT1 Up		NA	-17.68	44.96	35	9.96	Pass
Results:								Complies

Attenuation [Atten] = Fundamental Power [P_{fund}] - Measured Emissions [P_{em}]

Margin = Attenuation [Atten] - Required Attenuation [A_R]

ND = None Detected

(1) A 4kHz channel power of 27.28dBm was measured and is the basis for the upper limit of the emissions mask.

10.0 RADIATED SPURIOUS TX EMISSIONS (PRE-SCAN ONLY)

Test Conditions

Normative Reference	FCC 47 CFR §2.1051, §25.202(f), RSS-Gen, RSS-170 (5.4.3.1)
	ANSI C63.26 5.7.3

Limits

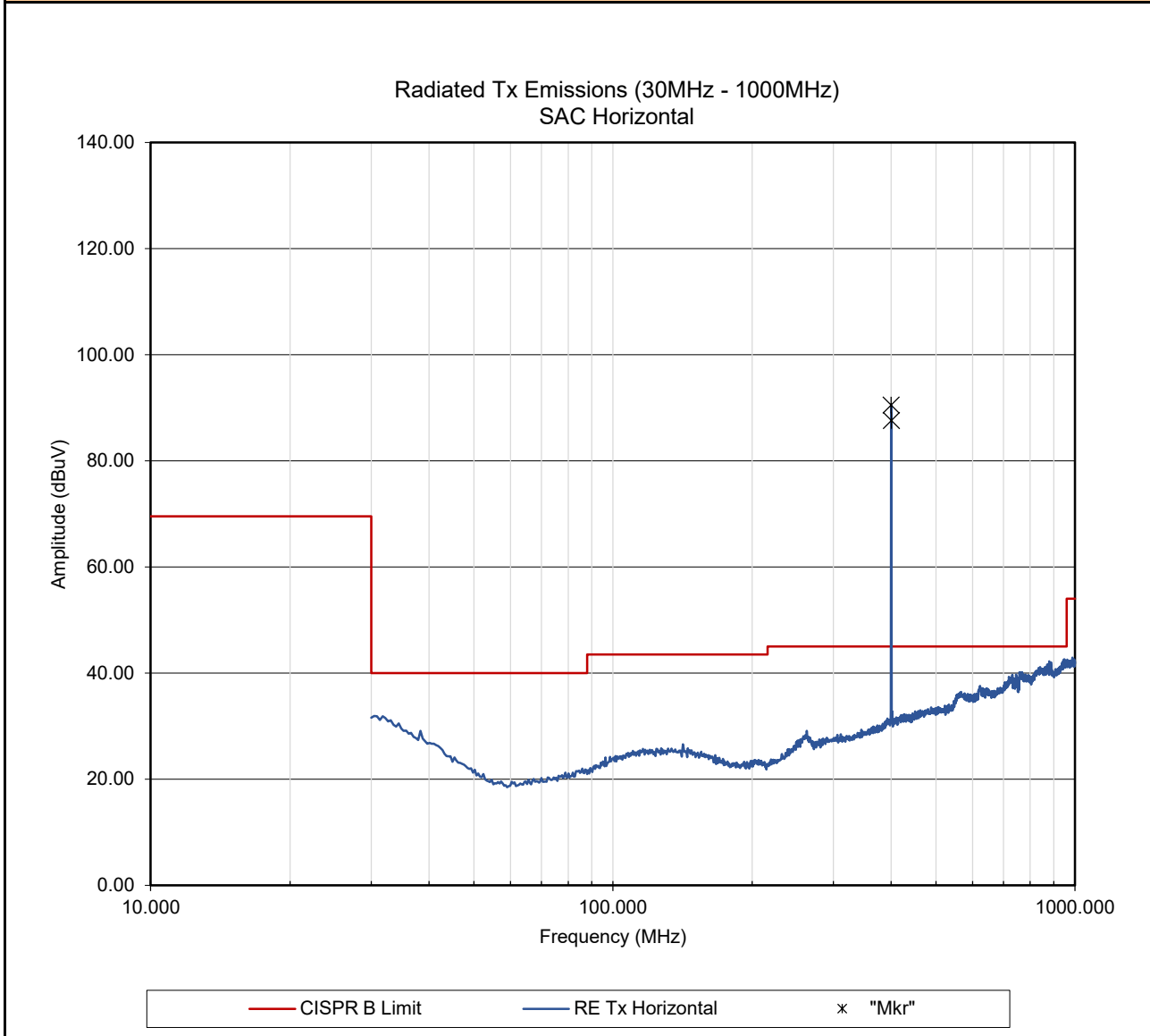
47 CFR §25	(f) Emission limitations. Except for SDARS terrestrial repeaters and as provided for in paragraph (i), the mean power of emissions shall be attenuated below the mean output power of the transmitter in accordance with the schedule set forth in paragraphs (f)(1) through (f)(4) of this section. The out-of-band emissions of SDARS terrestrial repeaters shall be attenuated in accordance with the schedule set forth in paragraph (h) of this section. (1) In any 4 kHz band, the center frequency of which is removed from the assigned frequency by more than 50 percent up to and including 100 percent of the authorized bandwidth: 25 dB; (2) In any 4 kHz band, the center frequency of which is removed from the assigned frequency by more than 100 percent up to and including 250 percent of the authorized bandwidth: 35 (3) In any 4 kHz band, the center frequency of which is removed from the assigned frequency by more than 250 percent of the authorized bandwidth: An amount equal to 43 dB plus 10 times the logarithm (to the base 10) of the transmitter power in watts;
RSS-170	5.4.3.1. Mobile Earth Stations in All Frequency Bands The average power of unwanted emissions shall be attenuated below the average output power, P (dBW), of the transmitter, as specified below: (1) 25 dB in any 4 kHz band, the centre frequency of which is offset from the channel frequency by more than 50%, up to and including 100% of the occupied bandwidth or necessary bandwidth, whichever is greater; (2) 35 dB in any 4 kHz band, the centre frequency of which is offset from the channel frequency by more than 100%, up to and including 250% of the occupied bandwidth or necessary bandwidth, whichever is greater; and (3) 43 + 10 log p (watts) in any 4 kHz band, the centre frequency of which is offset from the channel frequency by more than 250% of the occupied bandwidth or necessary bandwidth, whichever is greater.

Measurement Procedure

ANSI C63.26 5.7.3	See applicable procedure
Test Setup	Appendix A Figure A.1

Plot 10.1 – Radiated Tx Emissions, Horizontal, Pre-Scan

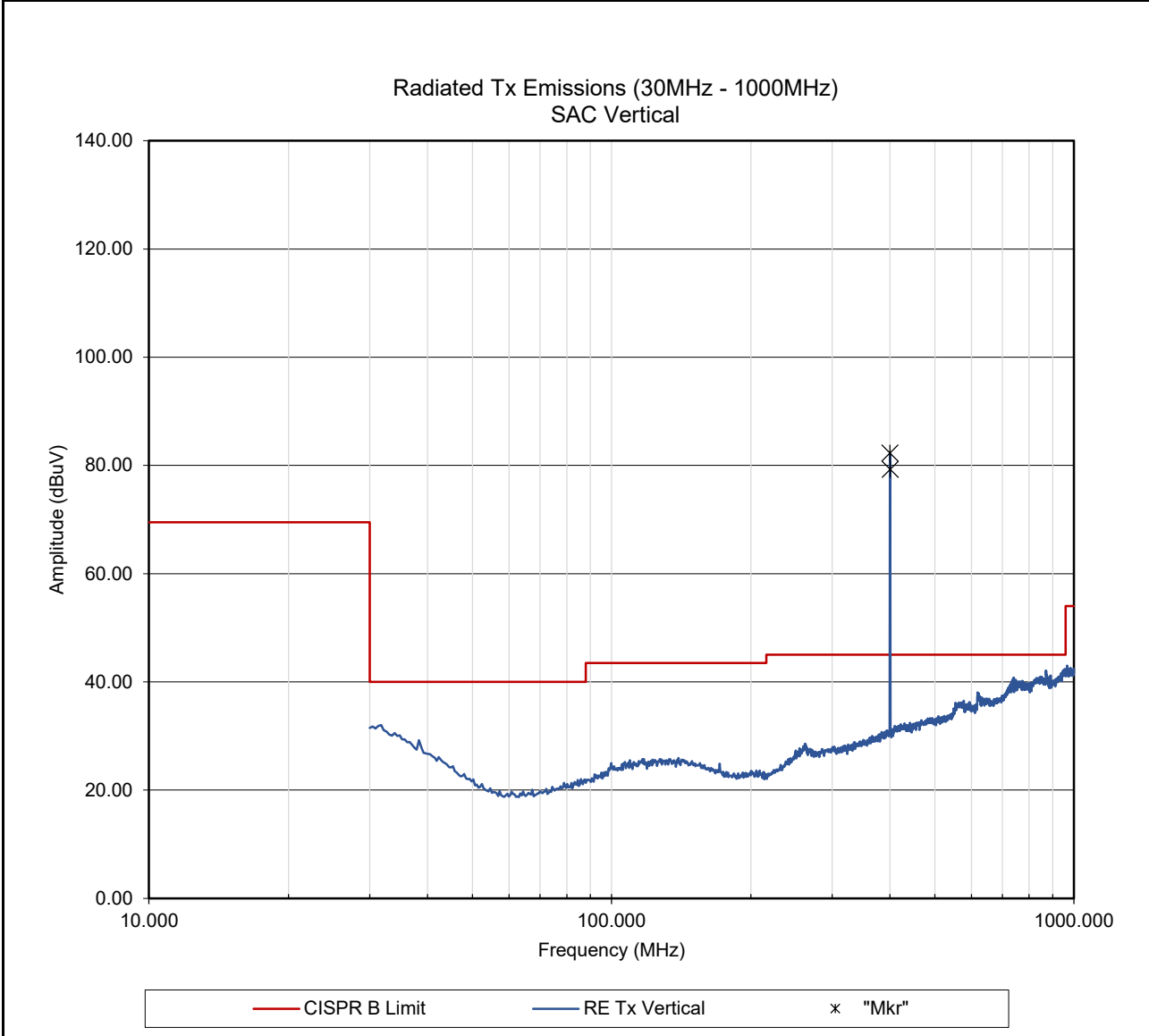
Radiated Tx Emissions (Pre-Scan):



Marker = Fundamental

Plot 10.2 – Radiated Tx Emissions, Vertical, Pre-Scan

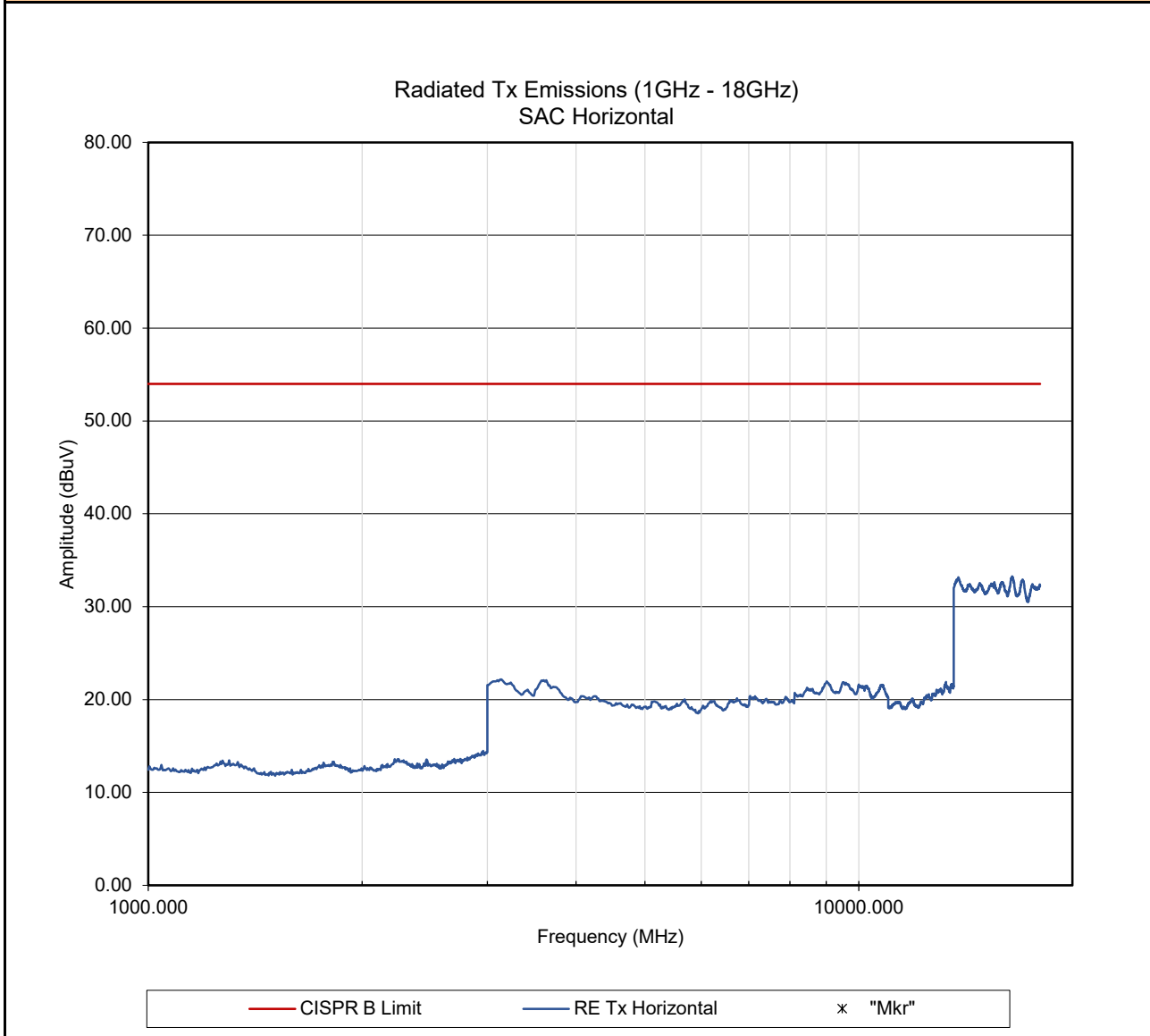
Radiated Tx Emissions (Pre-Scan):



Marker = Fundamental

Plot 10.3 – Radiated Tx Emissions, Horizontal, Pre-Scan

Radiated Tx Emissions (Pre-Scan):



Channel:

Mode:

Modulation:

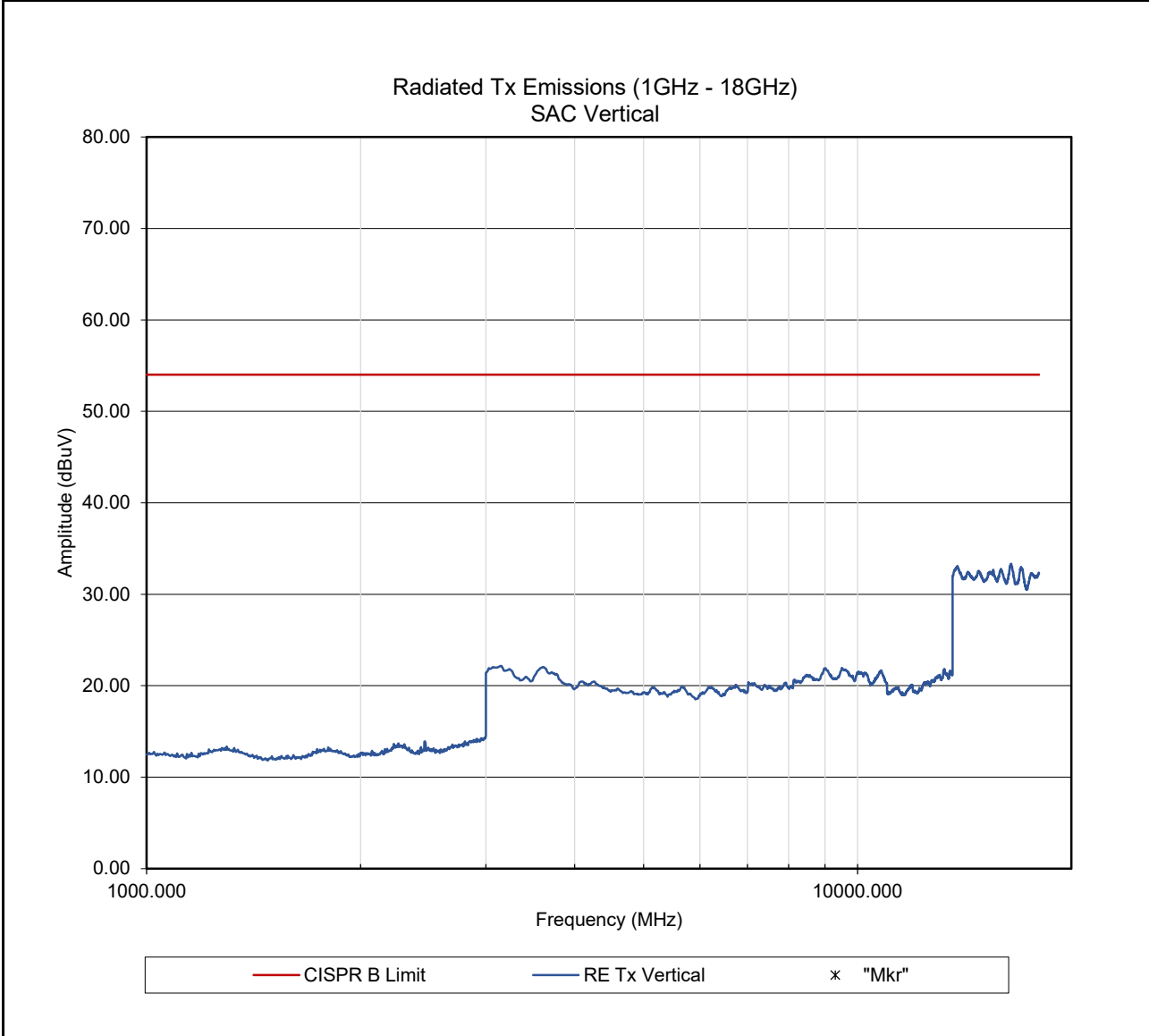
Channel Frequency: MHz

Emission Frequency: MHz

Emission Amplitude: dBuV

Plot 10.4 – Radiated Tx Emissions, Vertical, Pre-Scan

Radiated Tx Emissions (Pre-Scan):



Channel:

Mode:

Modulation:

Channel Frequency: MHz

Emission Frequency: MHz

Emission Amplitude: dBuV

Table 10.1 – Summary of Radiated Tx Emissions (Pre-Scan)

Radiated Tx Spurious Emissions (Pre-Scan)							
Channel	Emission	Modulation	Measured	Measured	Attenuation	Required	Margin
Frequency	Frequency		Fundamental	Emission		Attenuation	
(MHz)	(MHz)		Power				
			[P _{fund}]	[P _{em}]		[A _R]	
			(dBm)	(dBm)	[Atten]	(dBc)	(dB)
					(dBc)		
399.9749	ND	MSK	26.87	ND	n/a	n/a	n/a

Attenuation [Atten] = Fundamental Power [P_{fund}] - Measured Emissions [P_{em}]

Margin = Attenuation [Atten] - Required Attenuation [A_R]

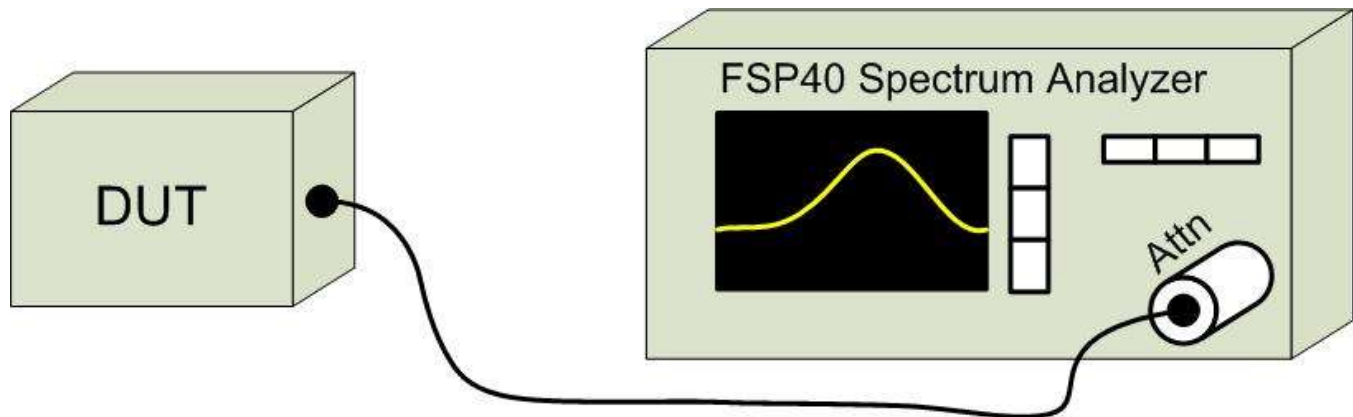
ND = None Detected

APPENDIX A – TEST SETUP DRAWINGS AND EQUIPMENT

Table A.1 – Setup - Conducted Measurements Equipment

Equipment List			
Asset Number	Manufacturer	Model Number	Description
00241	R&S	FSU40	Spectrum Analyzer

Figure A.1 – Test Setup Conducted Measurements



APPENDIX B – EQUIPMENT LIST AND CALIBRATION

Equipment List							
Asset Number	Manufacturer	Model Number	Serial Number	Description	Last Calibrated	Calibration Interval	Calibration Due
00241	R&S	FSU40	100500	Spectrum Analyzer	6 Sep 2024	Triennial	6 Sep 2027
00201	HP	E3611A	KR83015294	DC Power Supply	COU	n/a	COU
00263	Koaxis	KP10-1.00M-TD	263	1m Armoured Cable	COU	n/a	COU
00065	Pasternack	PE7014-30	n/a	30dB, 5W Attenuator	COU	n/a	COU
00278	TILE	34G3	n/a	TILE Test Software	NCR	n/a	NCR

NCR: No Calibration Required

COU: Calibrate On Use

APPENDIX C – MEASUREMENT INSTRUMENT UNCERTAINTY

CISPR 16-4 Measurement Uncertainty (U_{LAB})

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence interval using a coverage factor of $k=2$

Radiated Emissions 30MHz - 200MHz

$$U_{LAB} = 5.14\text{dB} \quad U_{CISPR} = 6.3\text{dB}$$

Radiated Emissions 200MHz - 1000MHz

$$U_{LAB} = 5.90\text{dB} \quad U_{CISPR} = 6.3\text{dB}$$

Radiated Emissions 1GHz - 6GHz

$$U_{LAB} = 4.80\text{dB} \quad U_{CISPR} = 5.2\text{dB}$$

Radiated Emissions 6GHz - 18GHz

$$U_{LAB} = 5.1\text{dB} \quad U_{CISPR} = 5.5\text{dB}$$

Power Line Conducted Emissions 9kHz to 150kHz

$$U_{LAB} = 2.96\text{dB} \quad U_{CISPR} = 3.8\text{dB}$$

Power Line Conducted Emissions 150kHz to 30MHz

$$U_{LAB} = 3.12\text{dB} \quad U_{CISPR} = 3.4\text{dB}$$

If the calculated uncertainty U_{lab} is **less** than U_{CISPR} then:

- | | |
|---|---|
| 1 | Compliance is deemed to occur if NO measured disturbance exceeds the disturbance limit |
| 2 | Non-Compliance is deemed to occur if ANY measured disturbance EXCEEDS the disturbance limit |

If the calculated uncertainty U_{lab} is **greater** than U_{CISPR} then:

- | | |
|---|--|
| 3 | Compliance is deemed to occur if NO measured disturbance, increased by ($U_{lab} - U_{CISPR}$), exceeds the disturbance limit |
| 4 | Non-Compliance is deemed to occur if ANY measured disturbance, increased by ($U_{lab} - U_{CISPR}$), EXCEEDS the disturbance limit |

Other Measurement Uncertainties (U_{LAB})

RF Conducted Emissions 9kHz - 40GHz

$$U_{LAB} = 1.0\text{dB} \quad U_{CISPR} = \text{n/a}$$

Frequency/Bandwidth 9kHz - 40GHz

$$U_{LAB} = 0.1\text{ppm} \quad U_{CISPR} = \text{n/a}$$

Temperature

$$U_{LAB} = 1^{\circ}\text{C} \quad U_{CISPR} = \text{n/a}$$

END OF REPORT