

Test report

REP113821

Date of issue: September 19, 2025

Applicant:

RM COSTRUZIONI ELETTRONICHE Srl

Product:

Amplifier

Model:

MLA 400

FCC ID:

2ACTR-MLA400

Specifications:

◆ **FCC 47 CFR Part 97**

Amateur Radio Service

Test location

Company name	Nemko Spa
Address	Via del Carroccio 4
City	Biassono
Province	MB
Postal code	20853
Country	Italy
Telephone	+39 039 220 12 01
Facsimile	/
Toll free	/
Website	www.nemko.com
Site number	FCC: 682159

Witnessed testing by	Luis Anticono, Wireless/EMC Specialist
Signature of reviewer	
Reviewed by	Paolo Barbieri, Senior Wireless/EMC Specialist
Signature of reviewer	
Date	September 19, 2025

Limits of responsibility

Note that the results contained in this report relate only to the items tested and were obtained in the period between the date of initial receipt of samples and the date of issue of the report.

This test report has been completed in accordance with the requirements of ISO/IEC 17025. All results contain in this report are within Nemko S.p.A. ISO/IEC 17025 accreditation.

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Section 1. Report summary

1.1 Applicant and manufacturer

Company name	RM COSTRUZIONI ELETTRONICHE Srl
Address	Via IV Novembre 42
City	Alto Reno Terme, Ponte della Venturina
Province/State	Bologna
Postal/Zip code	40046
Country	Italy

1.2 Test specifications

FCC 47 CFR Part 97	Amateur Radio Service
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1.3 Statement of compliance

In the configuration tested, the EUT was found compliant.

Testing was completed against all relevant requirements of the test standard. Results obtained indicate that the product under test complies in full with the requirements tested. The test results relate only to the items tested.

See "Summary of test results" for full details.

1.4 Exclusions

As per TCB recommendation only spurious emissions and amplifier gain requirements were witnessed.

1.5 Test report revision history

Revision #	Details of changes made to test report
REP113821	Original report issued

Section 2. Summary of test results

2.1 FCC Part 97 test results

Part	Test description	Verdict
§97.317 (a)(2)	Amplifier gain	Pass
§97.317 (a)(3)	Gain limitation within 26–28 MHz	Pass
§97.307 (d)	Spurious emissions	Pass
§97.313 (b)	Transmitter power standard	Pass

Notes: None

Section 3. Equipment under test (EUT) details

3.1 Sample information

Witnessed Test date:	September 19, 2025
Nemko sample ID number	NA

3.2 EUT information

Product name	Amplifier
Model	MLA 400
Serial number	010625

3.3 Technical information

Frequency band	1.810–2.000 MHz 3.500 – 3.800 MHz 7.000 – 7.200 MHz 10.100 – 10.150 MHz 14.000 – 14.350 MHz 18.068 – 18.118 MHz 21.000 – 21.450 MHz 24.895 – 24.990 MHz 28.000 – 29.700 MHz
Frequency Min (MHz)	1.810
Frequency Max (MHz)	29.700
RF power Max (W)	400
Field strength, Units @ distance	N/A
Type of modulation	All narrowband (FM, DATA) tested SSB, CW, AM, FM, DATA (All narrowband modes)- declared by customer
Emission classification (F1D, G1D, D1D)	-
Antenna information	N/A

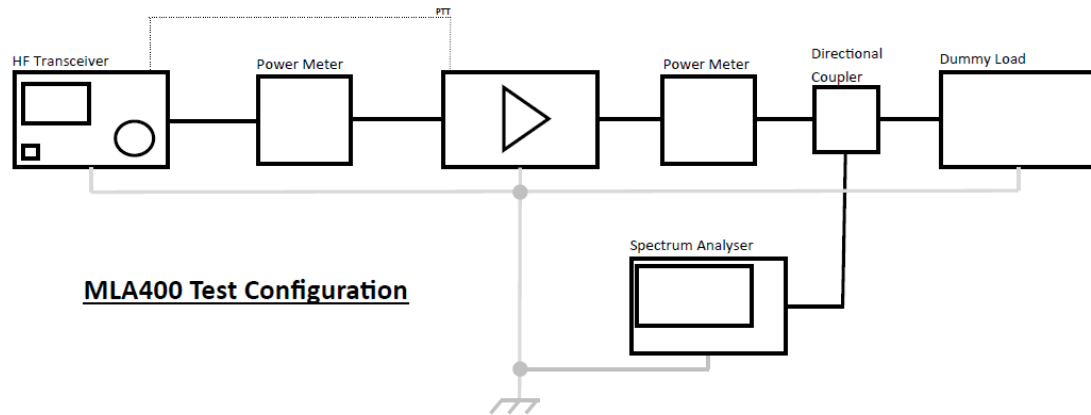
3.4 Product description and theory of operation

The MLA300 is a 13.6VDC HF broadband linear amplifier suitable for use in the range from 1.8 to 30 MHz with a maximum output of 300W, (Av. power), requiring a maximum input drive of 15W, it has been designed to be used with transceivers with 10W outputs but can be used equally well with any transceiver capable of producing 1 to 15W output. It uses 4 RF power transistors in two parallel push pull circuits biased in class AB. There are 6 Low Pass Filters with cut-off frequencies of 3,4,5,8,15,22 and 31MHz that greatly reduce unwanted harmonic output to acceptable levels that may be selected manually or automatically. It features a microprocessor that controls all of the functions of the amplifier and its protection circuits. Protection is provided for excessive input power, excessive output power, excessive load VSWR, out of band operation and excessive temperature. The amplifier may be used either in a mobile / portable or fixed station installation.

3.5 EUT exercise details

There are 6 Low Pass Filters with cut-off frequencies of 3,4,5,8,15,22 and 31MHz that greatly reduce unwanted harmonic output to acceptable levels that may be selected manually or automatically.

3.6 EUT setup diagram

*Figure 3.6-1: Setup diagram*

Section 4. Engineering considerations

4.1 Modifications incorporated in the EUT

There were no modifications performed to the EUT during this assessment.

4.2 Technical judgment

As per TCB recommendation only spurious emissions and amplifier gain requirements were witnessed.

4.3 Deviations from laboratory tests procedures

No deviations were made from laboratory procedures.

Section 5. Test conditions

5.1 Atmospheric conditions

Temperature	15–30 °C
Relative humidity	20–75 %
Air pressure	860–1060 mbar

When it is impracticable to carry out tests under these conditions, a note to this effect stating the ambient temperature and relative humidity during the tests shall be recorded and stated.

5.2 Power supply range

The normal test voltage for equipment to be connected to the mains shall be the nominal mains voltage. For the purpose of the present document, the nominal voltage shall be the declared voltage (13.6 Vdc), or any of the declared voltages ± 1 Vdc, for which the equipment was designed.

Section 6. Measurement uncertainty

Measurement uncertainty budgets for the tests are detailed below. Measurement uncertainty calculations assume a coverage factor of $K = 2$ with 95% certainty.

Test name	Measurement uncertainty, dB
Conducted spurious emissions	3.0
Radiated spurious emissions	6.0

Section 7. Test equipment

7.1 Test equipment list

Table 7.1-1: Equipment list

Equipment	Manufacturer	Model no.	Asset no.	Cal cycle	Next cal.
Semi-anechoic chamber	Nemko Spa	10m semi-anechoic chamber	530	2023-09	2025-09
EMI Receiver	Rohde & Schwarz	ESW44	101620	2025-08	2026-08
EMI Receiver	Rohde & Schwarz	ESU8	100202	2025-08	2026-08
Spectrum Analyzer	Rohde & Schwarz	FSW43	101767	2025-01	2026-01
Antenna Trilog 25MHz - 8GHz	Schwarzbeck Mess-Elektronik	VULB9162	9162-025	2024-08	2027-08

Note: None

Section 8. Testing data

8.1 FCC §97.317 (a)(1),(2),(3) Standards for certification of external RF power amplifiers

8.1.1 Definitions and limits

(a) To receive a grant of certification, the amplifier must:

(1) Satisfy the spurious emission standards of §97.307 (d) or (e) of this part, as applicable, when the amplifier is operated at the lesser of 1.5 kW PEP or its full output power and when the amplifier is placed in the “standby” or “off” positions while connected to the transmitter.

(2) Not be capable of amplifying the input RF power (driving signal) by more than 15 dB gain. Gain is defined as the ratio of the input RF power to the output RF power of the amplifier where both power measurements are expressed in peak envelope power or mean power.

(3) Exhibit no amplification (0 dB gain) between 26 MHz and 28 MHz.

8.1.2 Test summary

Witnessed Test date	September 08 2025	Temperature	NA
Test engineer	Luis Anticona	Air pressure	NA
Verdict	Pass	Relative humidity	NA

8.1.3 Observations, settings and special notes

Spectrum analyser settings:

Resolution bandwidth:	≥ OBW
Video bandwidth:	≥ 3 × RBW
Detector mode:	Peak
Trace mode:	Max Hold

8.1.4 Test data

Table 8.1-1: Power Gain per 97.317-(a) (1) (2) (3)

Frequency f_1 , MHz	Input Power, W	Output Power, W	Amplifier Gain, dB	Limit, dB	Margin, dB
1.90	19.86	333.43	12.25	15.00	2.75
3.65	16.79	350.75	13.20	15.00	1.80
7.10	19.72	371.54	12.75	15.00	2.25
10.12	25.29	360.58	11.54	15.00	3.46
14.17	22.49	361.41	12.06	15.00	2.94
18.12	34.67	275.42	9.00	15.00	6.00
21.22	33.88	344.35	10.07	15.00	4.93
24.94	24.38	397.19	12.12	15.00	2.88
28.85	34.67	265.46	8.84	15.00	6.16

Note: Amplifier was not capable of operation on any frequency or frequencies between 26 and 28MHz as measured at the points below per 97.317-(a) (3).

Data for: amplifier in Stand-by / amplifier in Operate

Table 8.1-2: Power Gain per 97.317-(a) (1) (2) (3)

Frequency f_1 , MHz	Input Power, W	Output Power, W	Amplifier Gain, dB
26	The device does not amplify in this frequency range and goes into protection	The device does not amplify in this frequency range and goes into protection	-
27			-
28			-

8.2 FCC §97.307 (d) Emission standards.

8.2.1 Definitions and limits

(d) For transmitters installed after January 1, 2003, the mean power of any spurious emission from a station transmitter or external RF power amplifier transmitting on a frequency below 30 MHz must be at least 43 dB below the mean power of the fundamental emission. For transmitters installed on or before January 1, 2003, the mean power of any spurious emission from a station transmitter or external RF power amplifier transmitting on a frequency below 30 MHz must not exceed 50 mW and must be at least 40 dB below the mean power of the fundamental emission. For a transmitter of mean power less than 5 W installed on or before January 1, 2003, the attenuation must be at least 30 dB. A transmitter built before April 15, 1977, or first marketed before January 1, 1978, is exempt from this requirement.

Limits from FCC Parts 2.1053, Part 2.1049; and test procedure from ANSI/ TIA 603-C:2004 & ANSI, C63.4-2003

§ 2.1053 Measurements required: Field strength of spurious radiation.

§ 2.1049 Measurements required: Occupied bandwidth.

8.2.2 Test summary

Witnessed Test date	September 10, 2025	Temperature	NA
Test engineer	Luis Anticono	Air pressure	NA
Verdict	Pass	Relative humidity	NA

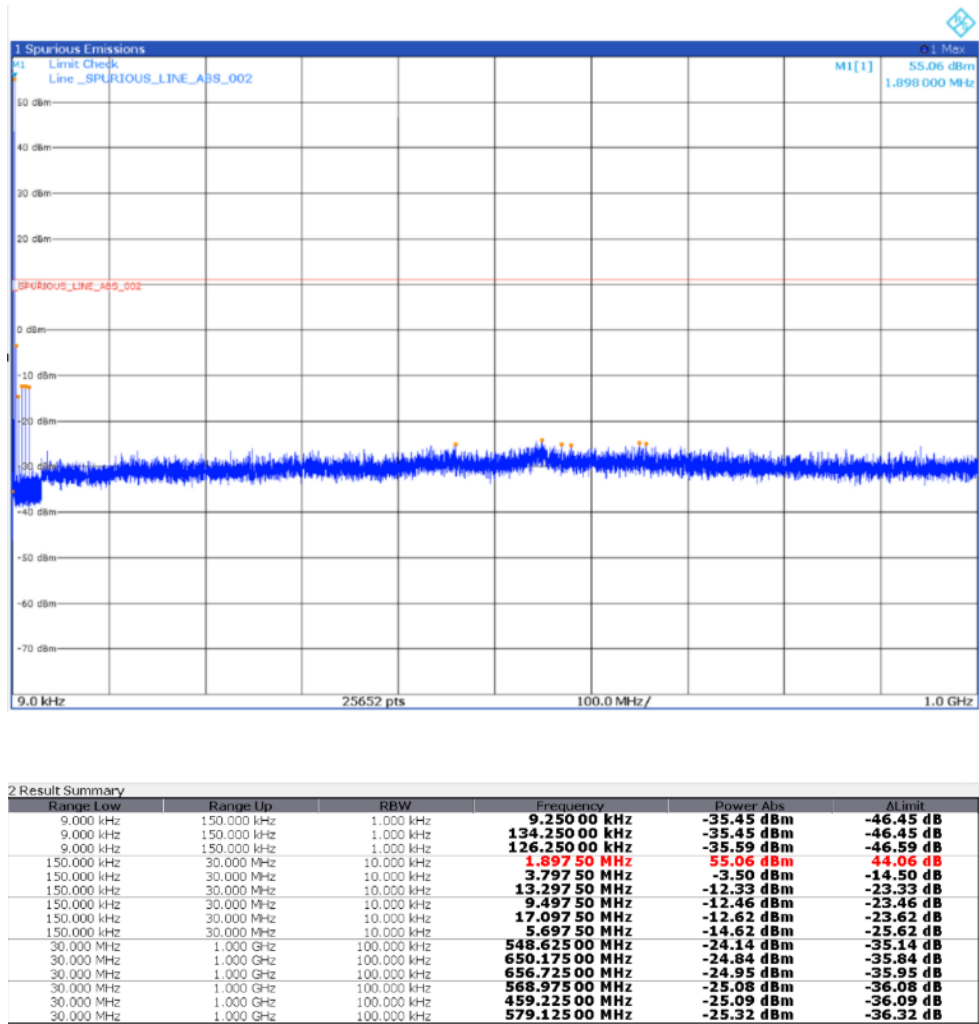
8.2.3 Observations, settings and special notes

The following modulations are used to measure conducted spurious emissions signals: CW, FM, DAT.

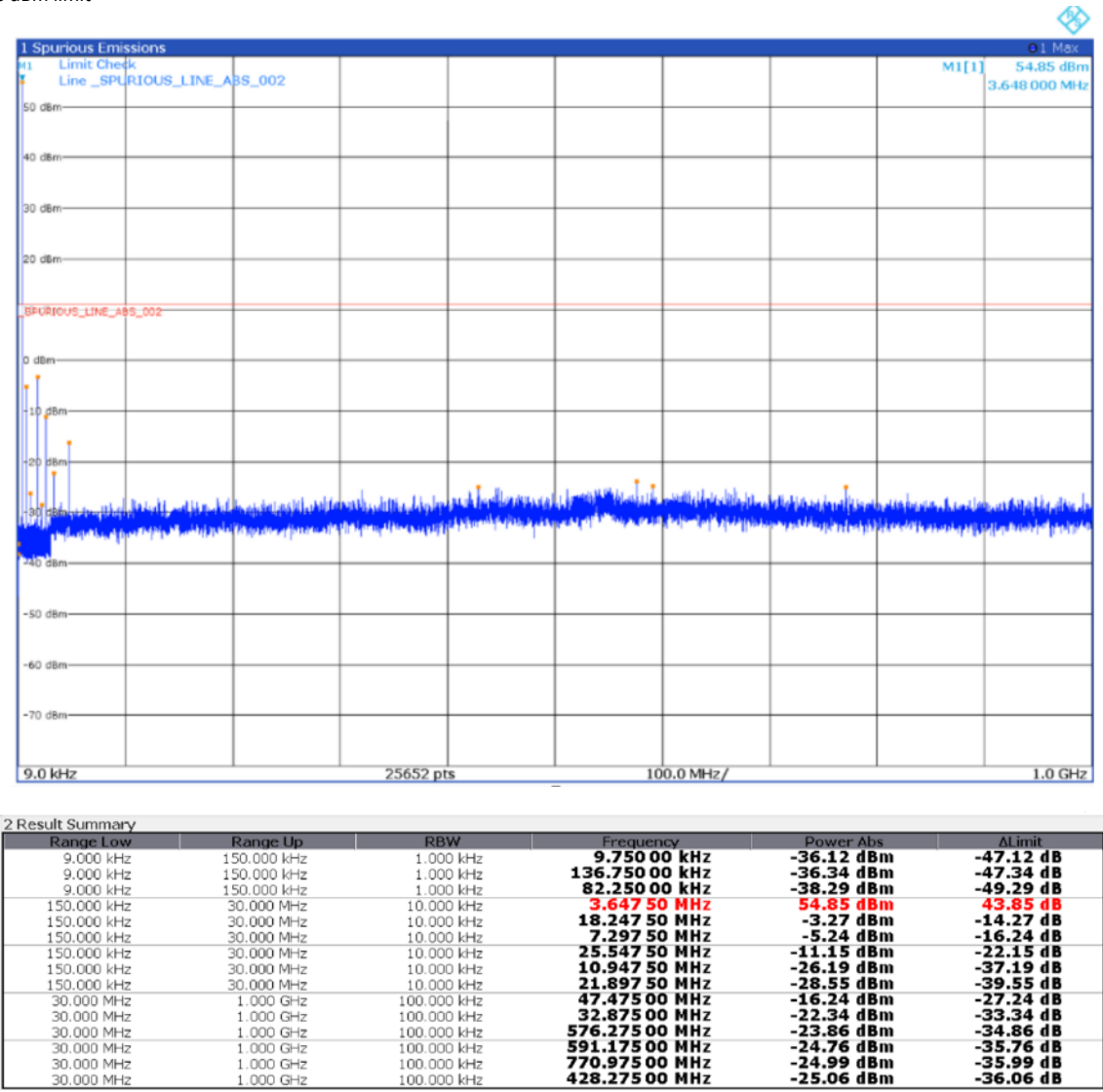
Modulation DAT are used to measure radiated spurious emissions.

8.2.4 Test data

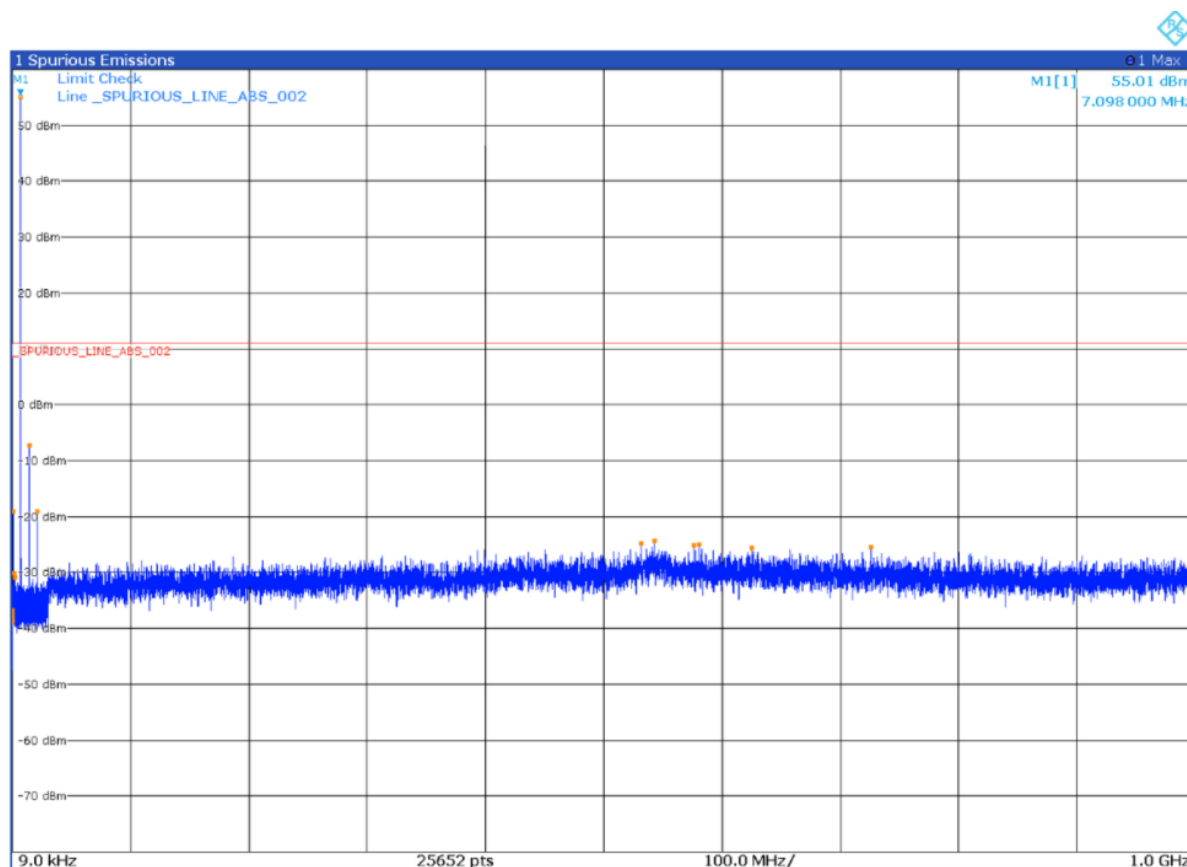
CW , 1.9MHz, limit 13.6dBm



CW,3.65 MH, 13.8 dBm limit



CW, 7.10 MHz, 13.6 dBm limit



2 Result Summary

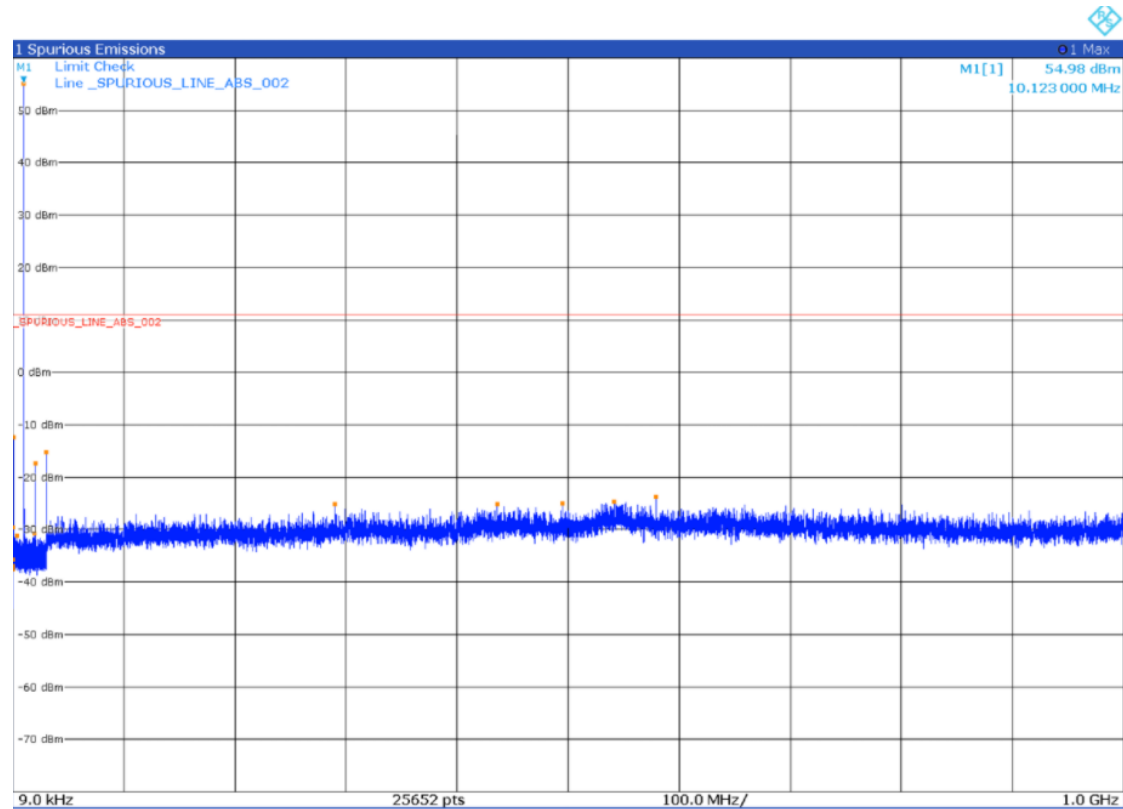
Range Low	Range Up	RBW	Frequency	Power Abs	Alimit
9.000 kHz	150.000 kHz	1.000 kHz	11.250 00 kHz	-36.73 dBm	-47.73 dB
9.000 kHz	150.000 kHz	1.000 kHz	137.750 00 kHz	-37.32 dBm	-48.32 dB
9.000 kHz	150.000 kHz	1.000 kHz	126.250 00 kHz	-38.05 dBm	-49.05 dB
9.000 kHz	150.000 kHz	1.000 kHz	44.750 00 kHz	-39.04 dBm	-50.04 dB
150.000 kHz	30.000 MHz	10.000 kHz	7.097 50 MHz	55.01 dBm	44.01 dB
150.000 kHz	30.000 MHz	10.000 kHz	14.197 50 MHz	-7.26 dBm	-18.26 dB
150.000 kHz	30.000 MHz	10.000 kHz	21.297 50 MHz	-19.03 dBm	-30.03 dB
150.000 kHz	30.000 MHz	10.000 kHz	447.500 00 kHz	-19.12 dBm	-30.12 dB
150.000 kHz	30.000 MHz	10.000 kHz	1.347 50 MHz	-30.10 dBm	-41.10 dB
150.000 kHz	30.000 MHz	10.000 kHz	1.997 50 MHz	-30.82 dBm	-41.82 dB
30.000 MHz	1.000 GHz	100.000 kHz	543.125 00 MHz	-24.37 dBm	-35.37 dB
30.000 MHz	1.000 GHz	100.000 kHz	531.875 00 MHz	-24.89 dBm	-35.89 dB
30.000 MHz	1.000 GHz	100.000 kHz	580.575 00 MHz	-24.92 dBm	-35.92 dB
30.000 MHz	1.000 GHz	100.000 kHz	576.025 00 MHz	-25.21 dBm	-36.21 dB
30.000 MHz	1.000 GHz	100.000 kHz	725.975 00 MHz	-25.50 dBm	-36.50 dB
30.000 MHz	1.000 GHz	100.000 kHz	625.175 00 MHz	-25.62 dBm	-36.62 dB

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Emission standards.
FCC §97.307 (d)



CW, 10.12MHz, 13.7 dBm limit



2 Result Summary

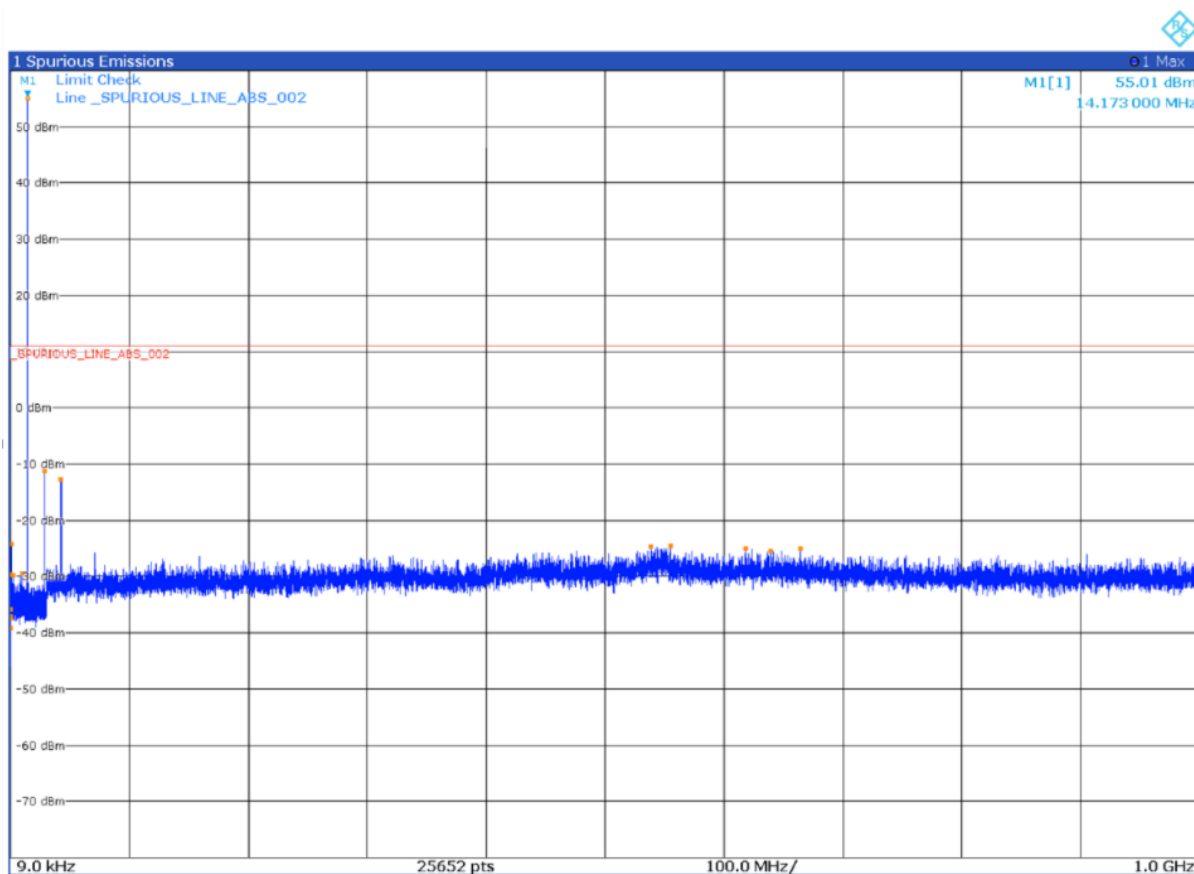
Range Low	Range Up	RBW	Frequency	Power Abs	Δ limit
9.000 kHz	150.000 kHz	1.000 kHz	9.250 00 kHz	-35.75 dBm	-46.75 dB
9.000 kHz	150.000 kHz	1.000 kHz	136.750 00 kHz	-36.95 dBm	-47.95 dB
9.000 kHz	150.000 kHz	1.000 kHz	126.750 00 kHz	-37.63 dBm	-48.63 dB
150.000 kHz	30.000 MHz	10.000 kHz	10.122 50 MHz	54.98 dBm	43.98 dB
150.000 kHz	30.000 MHz	10.000 kHz	447.500 00 kHz	-12.38 dBm	-23.38 dB
150.000 kHz	30.000 MHz	10.000 kHz	20.247 50 MHz	-17.29 dBm	-28.29 dB
150.000 kHz	30.000 MHz	10.000 kHz	242.500 00 kHz	-29.56 dBm	-40.56 dB
150.000 kHz	30.000 MHz	10.000 kHz	19.802 50 MHz	-30.79 dBm	-41.79 dB
150.000 kHz	30.000 MHz	10.000 kHz	3.487 50 MHz	-31.16 dBm	-42.16 dB
30.000 MHz	1.000 GHz	100.000 kHz	30.375 00 MHz	-15.20 dBm	-26.20 dB
30.000 MHz	1.000 GHz	100.000 kHz	578.775 00 MHz	-23.67 dBm	-34.67 dB
30.000 MHz	1.000 GHz	100.000 kHz	541.725 00 MHz	-24.69 dBm	-35.69 dB
30.000 MHz	1.000 GHz	100.000 kHz	495.025 00 MHz	-24.94 dBm	-35.94 dB
30.000 MHz	1.000 GHz	100.000 kHz	289.825 00 MHz	-25.07 dBm	-36.07 dB
30.000 MHz	1.000 GHz	100.000 kHz	435.875 00 MHz	-25.22 dBm	-36.22 dB

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Emission standards.
FCC §97.307 (d)



CW, 14.17 MHz, 13.4 dBm limit



2 Result Summary

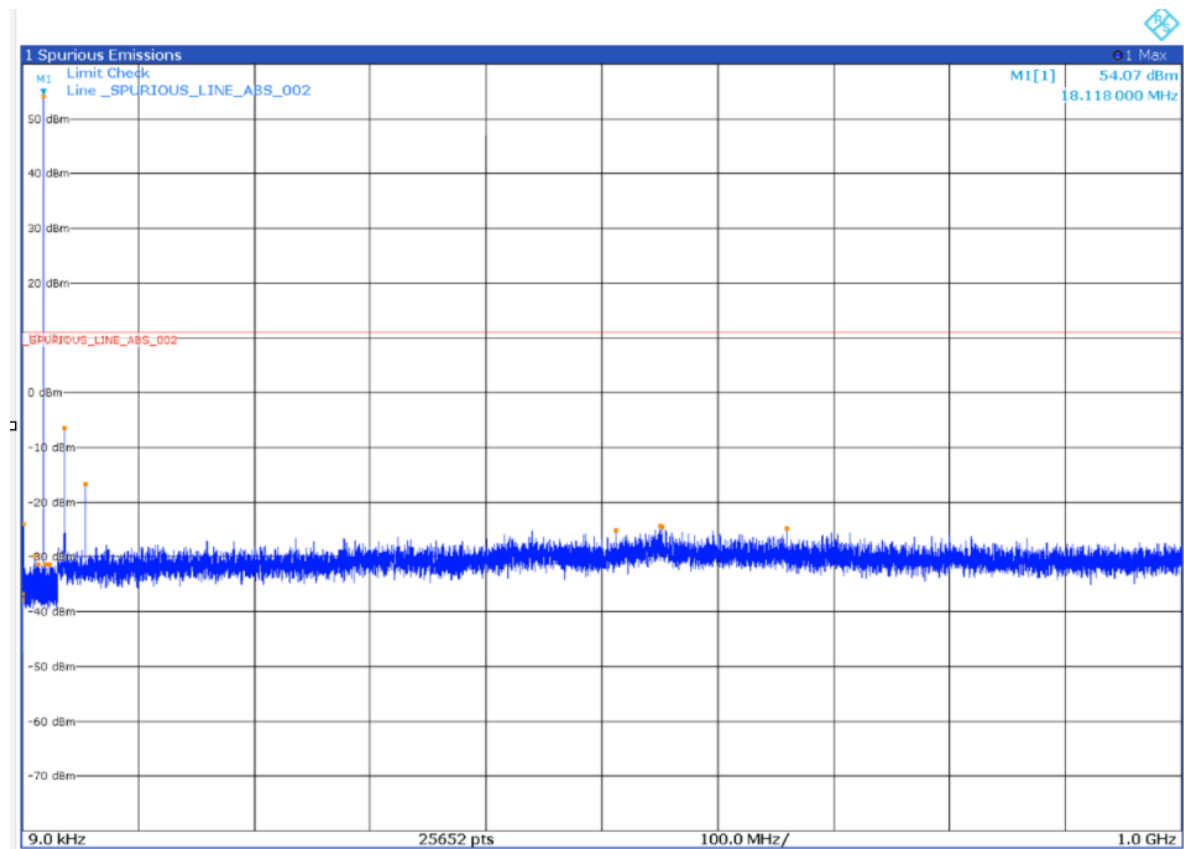
Range Low	Range Up	RBW	Frequency	Power Abs	ALimit
9.000 kHz	150.000 kHz	1.000 kHz	9.250 00 kHz	-35.81 dBm	-46.81 dB
9.000 kHz	150.000 kHz	1.000 kHz	136.250 00 kHz	-37.08 dBm	-48.08 dB
9.000 kHz	150.000 kHz	1.000 kHz	134.250 00 kHz	-37.47 dBm	-48.47 dB
9.000 kHz	150.000 kHz	1.000 kHz	126.250 00 kHz	-39.14 dBm	-50.14 dB
150.000 kHz	30.000 MHz	10.000 kHz	14.172 50 MHz	55.01 dBm	44.01 dB
150.000 kHz	30.000 MHz	10.000 kHz	28.347 50 MHz	-11.29 dBm	-22.29 dB
150.000 kHz	30.000 MHz	10.000 kHz	447.500 00 kHz	-24.16 dBm	-35.16 dB
150.000 kHz	30.000 MHz	10.000 kHz	9.527 50 MHz	-29.39 dBm	-40.39 dB
150.000 kHz	30.000 MHz	10.000 kHz	192.500 00 kHz	-29.61 dBm	-40.61 dB
150.000 kHz	30.000 MHz	10.000 kHz	2.322 50 MHz	-29.72 dBm	-40.72 dB
30.000 MHz	1.000 GHz	100.000 kHz	42.525 00 MHz	-12.71 dBm	-23.71 dB
30.000 MHz	1.000 GHz	100.000 kHz	555.075 00 MHz	-24.51 dBm	-35.51 dB
30.000 MHz	1.000 GHz	100.000 kHz	538.325 00 MHz	-24.65 dBm	-35.65 dB
30.000 MHz	1.000 GHz	100.000 kHz	618.475 00 MHz	-25.02 dBm	-36.02 dB
30.000 MHz	1.000 GHz	100.000 kHz	664.125 00 MHz	-25.06 dBm	-36.06 dB
30.000 MHz	1.000 GHz	100.000 kHz	639.575 00 MHz	-25.44 dBm	-36.44 dB

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Emission standards.
FCC §97.307 (d)



CW, 18.12 MHz, 13.8 dBm limit



2 Result Summary

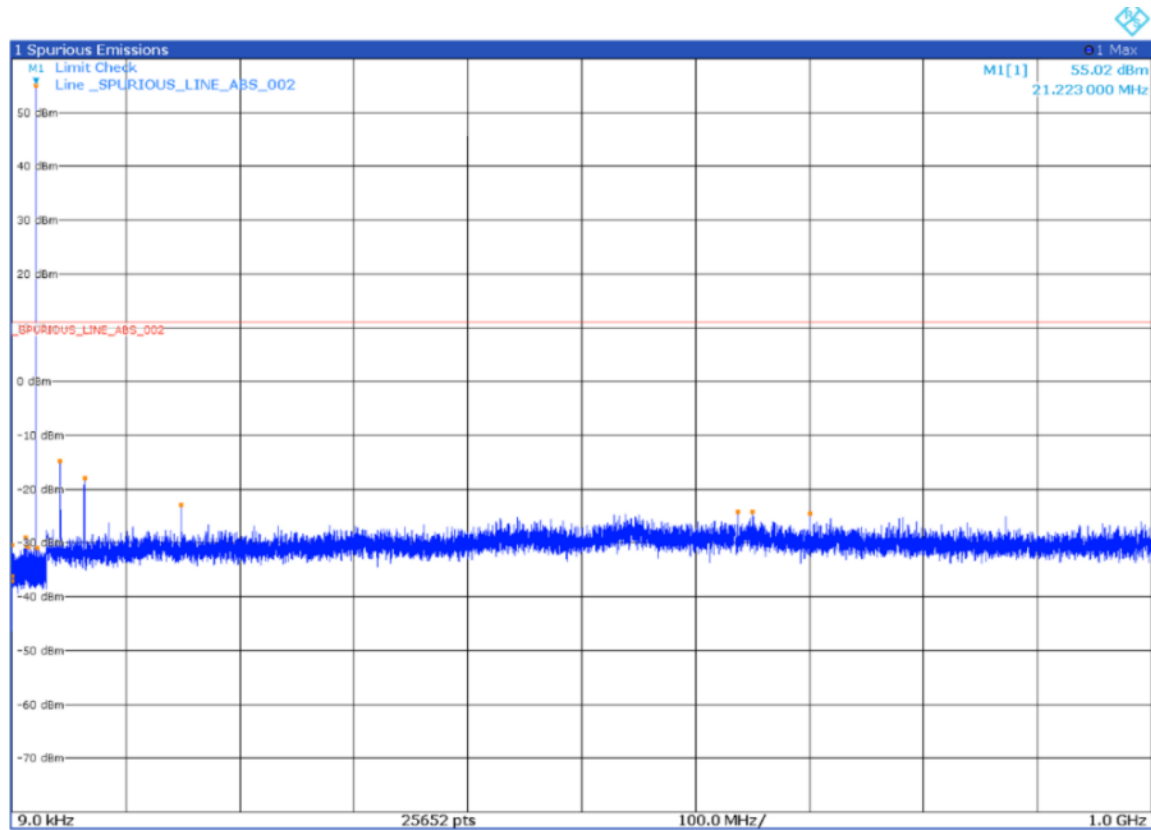
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
9.000 kHz	150.000 kHz	1.000 kHz	134.250 00 kHz	-36.73 dBm	-47.73 dB
9.000 kHz	150.000 kHz	1.000 kHz	126.250 00 kHz	-37.73 dBm	-48.73 dB
150.000 kHz	30.000 MHz	10.000 kHz	18.117 50 MHz	54.07 dBm	43.07 dB
150.000 kHz	30.000 MHz	10.000 kHz	447.500 00 kHz	-24.06 dBm	-35.06 dB
150.000 kHz	30.000 MHz	10.000 kHz	10.812 50 MHz	-29.76 dBm	-40.76 dB
150.000 kHz	30.000 MHz	10.000 kHz	13.522 50 MHz	-31.40 dBm	-42.40 dB
150.000 kHz	30.000 MHz	10.000 kHz	23.387 50 MHz	-31.43 dBm	-42.43 dB
150.000 kHz	30.000 MHz	10.000 kHz	19.612 50 MHz	-31.44 dBm	-42.44 dB
30.000 MHz	1.000 GHz	100.000 kHz	36.225 00 MHz	-6.43 dBm	-17.43 dB
30.000 MHz	1.000 GHz	100.000 kHz	54.375 00 MHz	-16.63 dBm	-27.63 dB
30.000 MHz	1.000 GHz	100.000 kHz	550.325 00 MHz	-24.27 dBm	-35.27 dB
30.000 MHz	1.000 GHz	100.000 kHz	552.075 00 MHz	-24.57 dBm	-35.57 dB
30.000 MHz	1.000 GHz	100.000 kHz	659.925 00 MHz	-24.83 dBm	-35.83 dB
30.000 MHz	1.000 GHz	100.000 kHz	511.925 00 MHz	-25.23 dBm	-36.23 dB

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CW, 21.22 MHz, 13.7 dBm limit



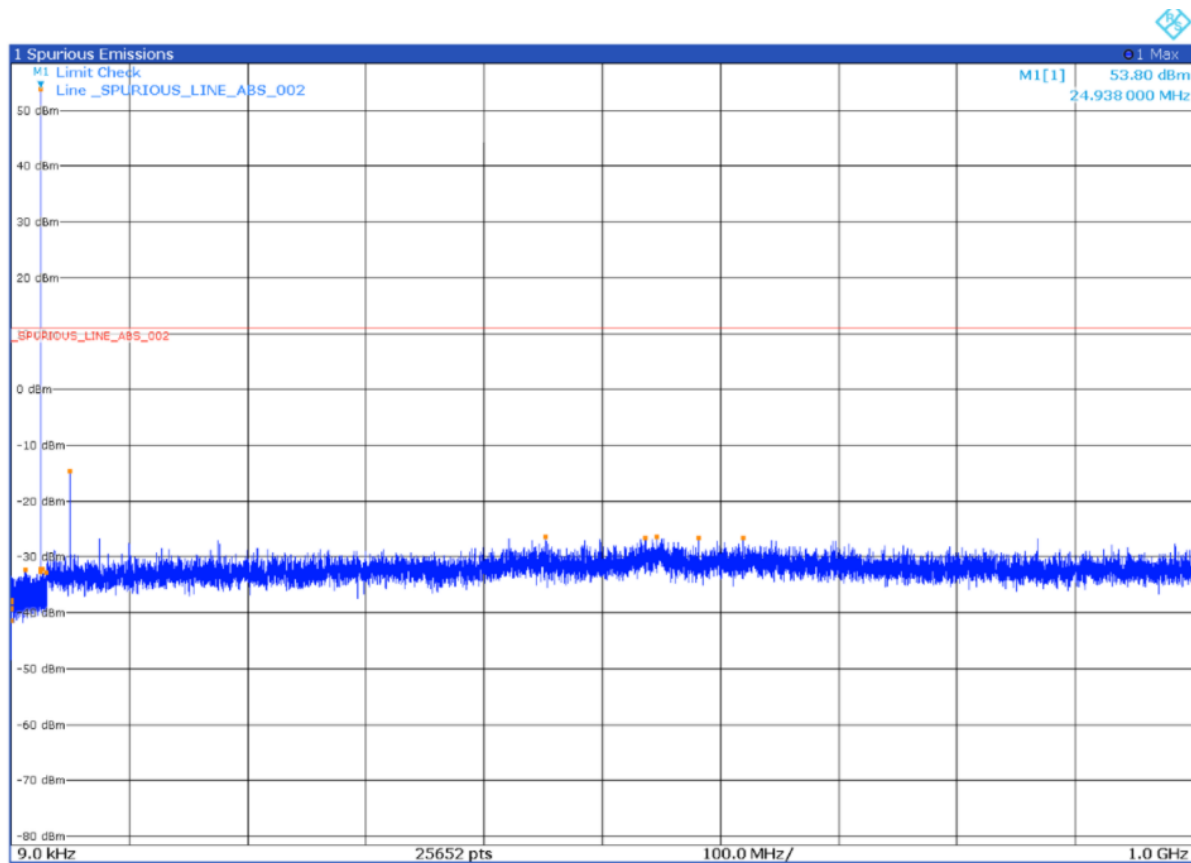
2 Result Summary						
Range Low	Range Up	RBW	Frequency	Power Abs	ALimit	
9.000 kHz	150.000 kHz	1.000 kHz	126.750 00 kHz	-36.11 dBm	-47.11 dB	
9.000 kHz	150.000 kHz	1.000 kHz	137.250 00 kHz	-36.17 dBm	-47.17 dB	
9.000 kHz	150.000 kHz	1.000 kHz	15.750 00 kHz	-37.12 dBm	-48.12 dB	
150.000 kHz	30.000 MHz	10.000 kHz	21.222 50 MHz	55.02 dBm	44.02 dB	
150.000 kHz	30.000 MHz	10.000 kHz	11.822 50 MHz	-28.99 dBm	-39.99 dB	
150.000 kHz	30.000 MHz	10.000 kHz	297.500 00 kHz	-30.46 dBm	-41.46 dB	
150.000 kHz	30.000 MHz	10.000 kHz	12.512 50 MHz	-30.63 dBm	-41.63 dB	
150.000 kHz	30.000 MHz	10.000 kHz	14.212 50 MHz	-30.68 dBm	-41.68 dB	
150.000 kHz	30.000 MHz	10.000 kHz	22.027 50 MHz	-30.92 dBm	-41.92 dB	
30.000 MHz	1.000 GHz	100.000 kHz	42.475 00 MHz	-14.76 dBm	-25.76 dB	
30.000 MHz	1.000 GHz	100.000 kHz	63.675 00 MHz	-17.92 dBm	-28.92 dB	
30.000 MHz	1.000 GHz	100.000 kHz	148.575 00 MHz	-22.99 dBm	-33.99 dB	
30.000 MHz	1.000 GHz	100.000 kHz	636.725 00 MHz	-24.18 dBm	-35.18 dB	
30.000 MHz	1.000 GHz	100.000 kHz	649.925 00 MHz	-24.22 dBm	-35.22 dB	
30.000 MHz	1.000 GHz	100.000 kHz	700.075 00 MHz	-24.55 dBm	-35.55 dB	

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Testing data
Emission standards.
FCC §97.307 (d)



CW, 24.94 MHz, 13 dBm limit



2 Result Summary

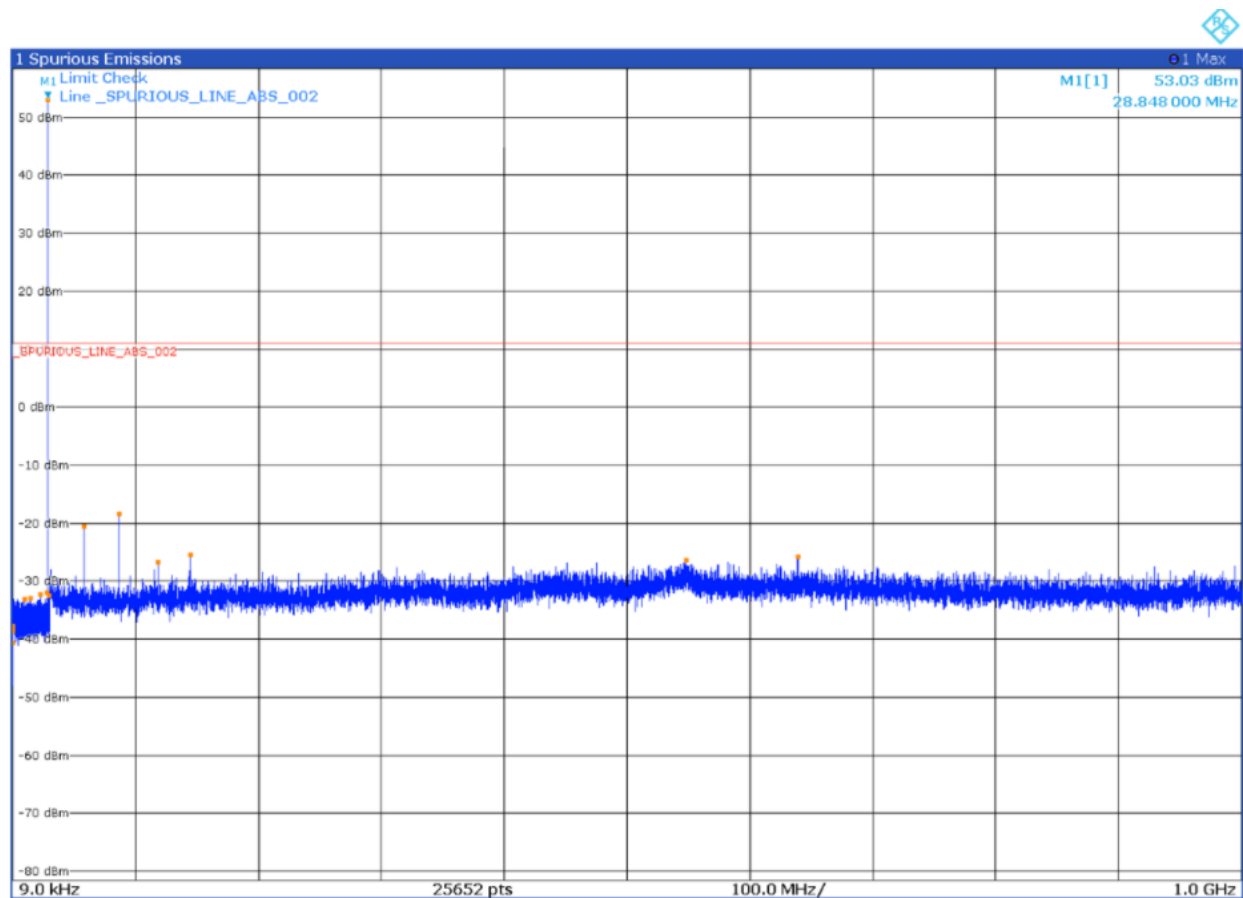
Range Low	Range Up	RBW	Frequency	Power Abs	ALimit
9.000 kHz	150.000 kHz	1.000 kHz	134.250 00 kHz	-37.83 dBm	-48.83 dB
9.000 kHz	150.000 kHz	1.000 kHz	20.750 00 kHz	-38.06 dBm	-49.06 dB
9.000 kHz	150.000 kHz	1.000 kHz	137.250 00 kHz	-39.15 dBm	-50.15 dB
9.000 kHz	150.000 kHz	1.000 kHz	126.250 00 kHz	-39.29 dBm	-50.29 dB
9.000 kHz	150.000 kHz	1.000 kHz	96.750 00 kHz	-41.48 dBm	-52.48 dB
150.000 kHz	30.000 MHz	10.000 kHz	24.937 50 MHz	53.80 dBm	42.80 dB
150.000 kHz	30.000 MHz	10.000 kHz	26.177 50 MHz	-32.18 dBm	-43.18 dB
150.000 kHz	30.000 MHz	10.000 kHz	25.152 50 MHz	-32.20 dBm	-43.20 dB
150.000 kHz	30.000 MHz	10.000 kHz	12.297 50 MHz	-32.31 dBm	-43.31 dB
150.000 kHz	30.000 MHz	10.000 kHz	24.497 50 MHz	-32.67 dBm	-43.67 dB
150.000 kHz	30.000 MHz	10.000 kHz	29.237 50 MHz	-32.82 dBm	-43.82 dB
30.000 MHz	1.000 GHz	100.000 kHz	49.875 00 MHz	-14.59 dBm	-25.59 dB
30.000 MHz	1.000 GHz	100.000 kHz	452.175 00 MHz	-26.37 dBm	-37.37 dB
30.000 MHz	1.000 GHz	100.000 kHz	545.975 00 MHz	-26.45 dBm	-37.45 dB
30.000 MHz	1.000 GHz	100.000 kHz	581.025 00 MHz	-26.61 dBm	-37.61 dB
30.000 MHz	1.000 GHz	100.000 kHz	536.525 00 MHz	-26.65 dBm	-37.65 dB
30.000 MHz	1.000 GHz	100.000 kHz	618.825 00 MHz	-26.65 dBm	-37.65 dB

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Testing data
Emission standards.
FCC §97.307 (d)



CW, 28.85 MHz, 13 dBm limit



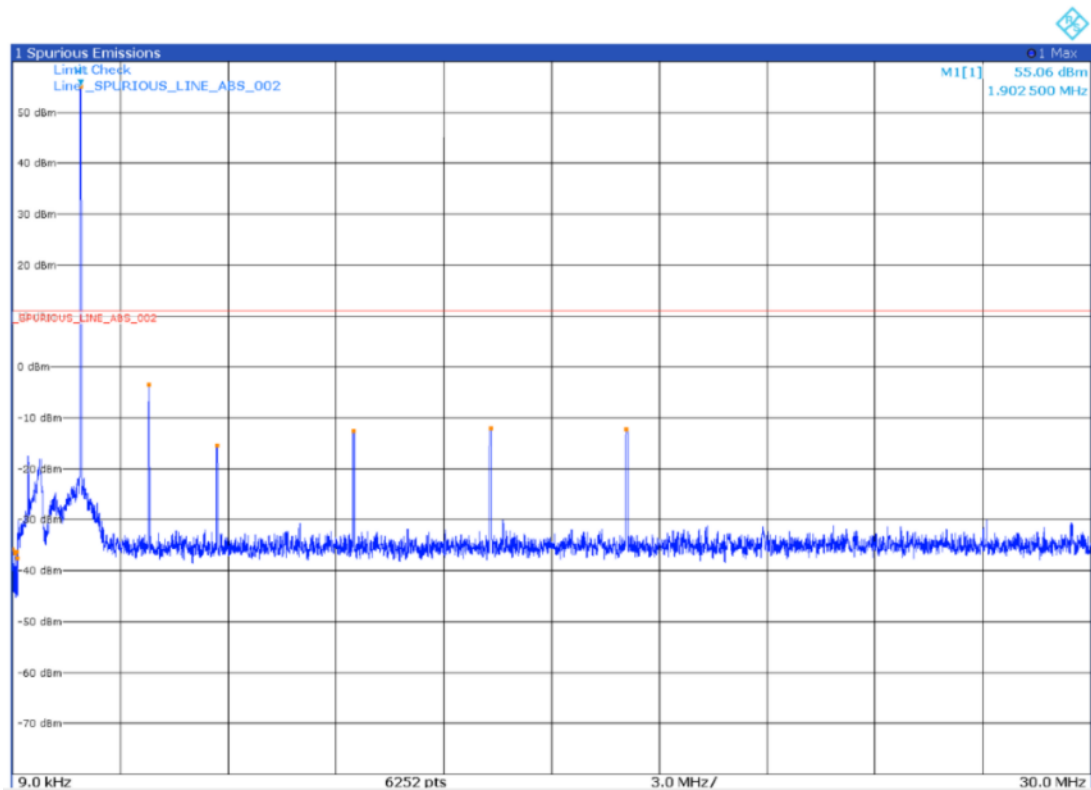
2 Result Summary					
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
9.000 kHz	150.000 kHz	1.000 kHz	137.250 00 kHz	-37.74 dBm	-48.74 dB
9.000 kHz	150.000 kHz	1.000 kHz	126.750 00 kHz	-38.38 dBm	-49.38 dB
9.000 kHz	150.000 kHz	1.000 kHz	15.250 00 kHz	-38.67 dBm	-49.67 dB
9.000 kHz	150.000 kHz	1.000 kHz	81.750 00 kHz	-40.60 dBm	-51.60 dB
150.000 kHz	30.000 MHz	10.000 kHz	28.847 50 MHz	53.03 dBm	42.03 dB
150.000 kHz	30.000 MHz	10.000 kHz	28.197 50 MHz	-32.01 dBm	-43.01 dB
150.000 kHz	30.000 MHz	10.000 kHz	22.532 50 MHz	-32.34 dBm	-43.34 dB
150.000 kHz	30.000 MHz	10.000 kHz	29.462 50 MHz	-32.45 dBm	-43.45 dB
150.000 kHz	30.000 MHz	10.000 kHz	14.077 50 MHz	-33.01 dBm	-44.01 dB
150.000 kHz	30.000 MHz	10.000 kHz	9.547 50 MHz	-33.08 dBm	-44.08 dB
30.000 MHz	1.000 GHz	100.000 kHz	86.575 00 MHz	-18.40 dBm	-29.40 dB
30.000 MHz	1.000 GHz	100.000 kHz	57.725 00 MHz	-20.53 dBm	-31.53 dB
30.000 MHz	1.000 GHz	100.000 kHz	144.275 00 MHz	-25.44 dBm	-36.44 dB
30.000 MHz	1.000 GHz	100.000 kHz	638.975 00 MHz	-25.82 dBm	-36.82 dB
30.000 MHz	1.000 GHz	100.000 kHz	548.275 00 MHz	-26.44 dBm	-37.44 dB
30.000 MHz	1.000 GHz	100.000 kHz	118.425 00 MHz	-26.68 dBm	-37.68 dB

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DATA (APCO25_4FSK) , 1.9MHz, limit 13.6dBm



2 Result Summary

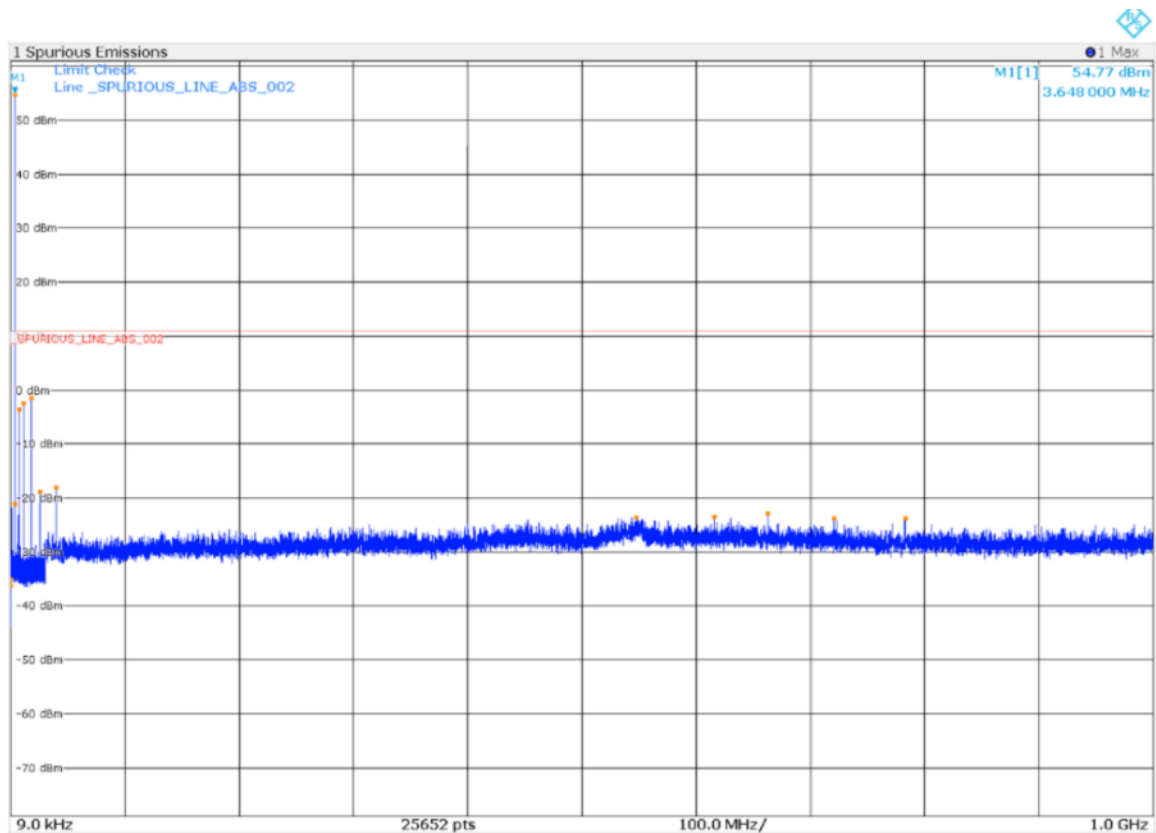
Range Low	Range Up	RBW	Frequency	Power Abs.	ALimit
9.000 kHz	150.000 kHz	1.000 kHz	9.250 00 kHz	-35.88 dBm	-46.88 dB
9.000 kHz	150.000 kHz	1.000 kHz	126.250 00 kHz	-36.37 dBm	-47.37 dB
9.000 kHz	150.000 kHz	1.000 kHz	82.250 00 kHz	-36.59 dBm	-47.59 dB
9.000 kHz	150.000 kHz	1.000 kHz	137.250 00 kHz	-37.62 dBm	-48.62 dB
150.000 kHz	30.000 MHz	10.000 kHz	1.897 50 MHz	55.07 dBm	44.07 dB
150.000 kHz	30.000 MHz	10.000 kHz	3.797 50 MHz	-3.40 dBm	-14.40 dB
150.000 kHz	30.000 MHz	10.000 kHz	13.307 50 MHz	-12.10 dBm	-23.10 dB
150.000 kHz	30.000 MHz	10.000 kHz	17.077 50 MHz	-12.18 dBm	-23.18 dB
150.000 kHz	30.000 MHz	10.000 kHz	9.487 50 MHz	-12.53 dBm	-23.53 dB
150.000 kHz	30.000 MHz	10.000 kHz	5.697 50 MHz	-15.43 dBm	-26.43 dB

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DATA (APCO25_4FSK), 3.65 MHz, 13.8 dBm limit



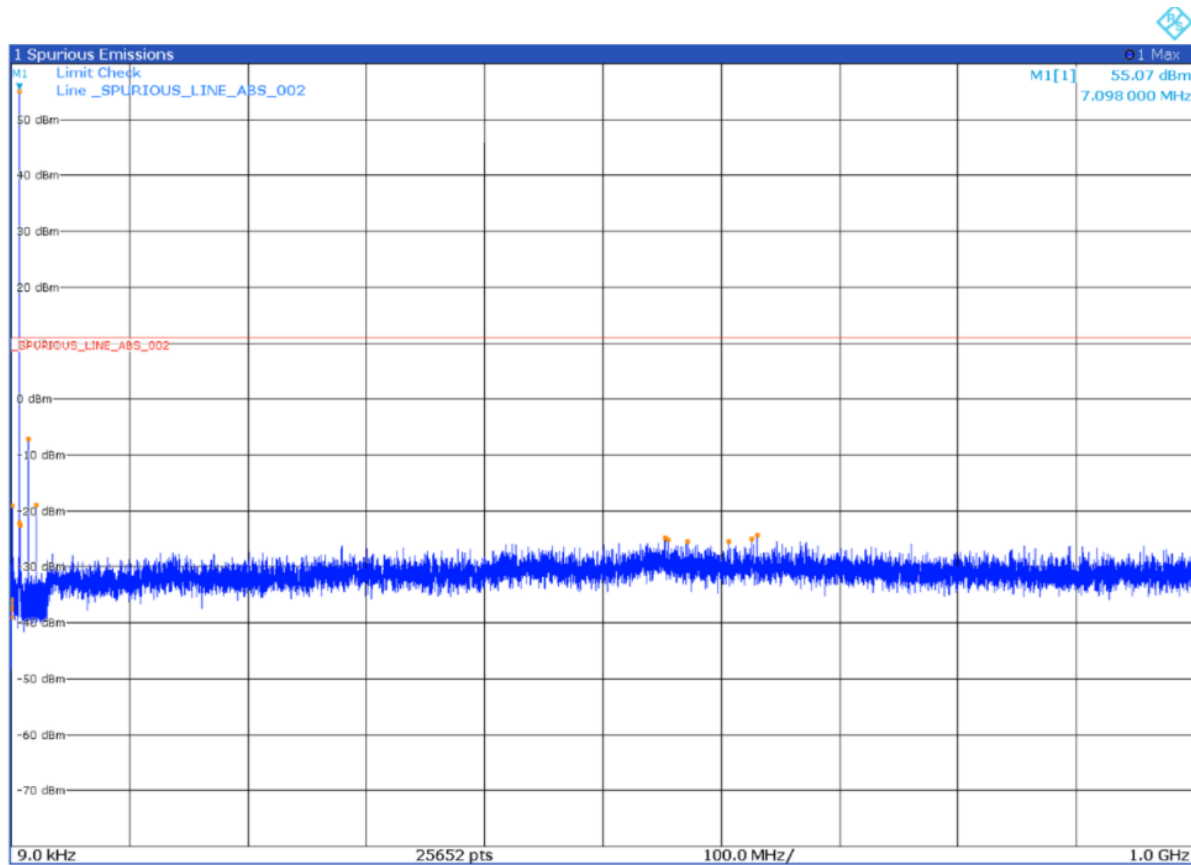
2 Result Summary						
Range Low	Range Up	RBW	Frequency	Power Abs	ALimit	
9.000 kHz	150.000 kHz	1.000 kHz	136.250 00 kHz	-35.12 dBm	-46.12 dB	
9.000 kHz	150.000 kHz	1.000 kHz	126.750 00 kHz	-36.29 dBm	-47.29 dB	
150.000 kHz	30.000 MHz	10.000 kHz	3.647 50 MHz	54.77 dBm	43.77 dB	
150.000 kHz	30.000 MHz	10.000 kHz	18.252 50 MHz	-1.50 dBm	-12.50 dB	
150.000 kHz	30.000 MHz	10.000 kHz	10.952 50 MHz	-2.53 dBm	-13.53 dB	
150.000 kHz	30.000 MHz	10.000 kHz	7.297 50 MHz	-3.56 dBm	-14.56 dB	
150.000 kHz	30.000 MHz	10.000 kHz	25.547 50 MHz	-18.94 dBm	-29.94 dB	
150.000 kHz	30.000 MHz	10.000 kHz	3.727 50 MHz	-21.12 dBm	-32.12 dB	
30.000 MHz	1.000 GHz	100.000 kHz	40.175 00 MHz	-18.12 dBm	-29.12 dB	
30.000 MHz	1.000 GHz	100.000 kHz	662.475 00 MHz	-22.83 dBm	-33.83 dB	
30.000 MHz	1.000 GHz	100.000 kHz	615.775 00 MHz	-23.57 dBm	-34.57 dB	
30.000 MHz	1.000 GHz	100.000 kHz	547.625 00 MHz	-23.64 dBm	-34.64 dB	
30.000 MHz	1.000 GHz	100.000 kHz	720.825 00 MHz	-23.83 dBm	-34.83 dB	
30.000 MHz	1.000 GHz	100.000 kHz	782.775 00 MHz	-23.89 dBm	-34.89 dB	

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DATA (APCO25_4FSK), 7.10 MHz, 13.6 dBm limit



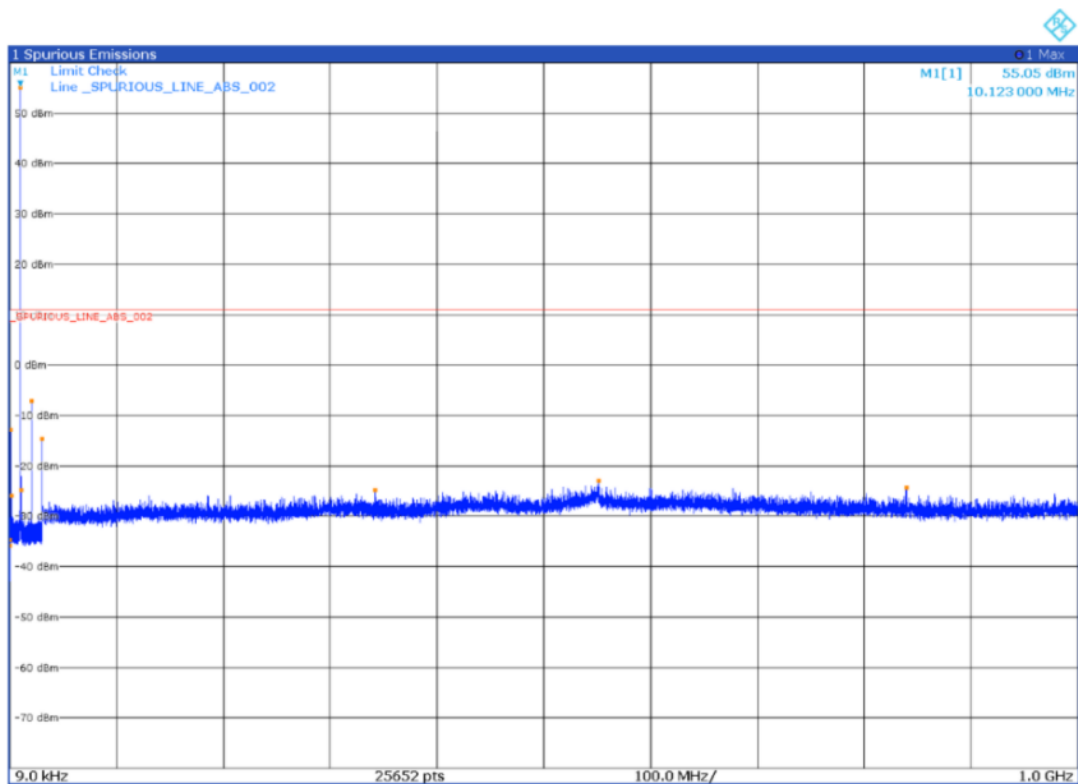
2 Result Summary						
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit	
9.000 kHz	150.000 kHz	1.000 kHz	136.250 00 kHz	-35.94 dBm	-46.94 dB	
9.000 kHz	150.000 kHz	1.000 kHz	81.750 00 kHz	-37.02 dBm	-48.02 dB	
9.000 kHz	150.000 kHz	1.000 kHz	19.250 00 kHz	-37.69 dBm	-48.69 dB	
9.000 kHz	150.000 kHz	1.000 kHz	126.250 00 kHz	-39.03 dBm	-50.03 dB	
150.000 kHz	30.000 MHz	10.000 kHz	7.097 50 MHz	55.07 dBm	44.07 dB	
150.000 kHz	30.000 MHz	10.000 kHz	14.197 50 MHz	-7.14 dBm	-18.14 dB	
150.000 kHz	30.000 MHz	10.000 kHz	21.297 50 MHz	-18.96 dBm	-29.96 dB	
150.000 kHz	30.000 MHz	10.000 kHz	447.500 00 kHz	-19.06 dBm	-30.06 dB	
150.000 kHz	30.000 MHz	10.000 kHz	7.012 50 MHz	-22.13 dBm	-33.13 dB	
150.000 kHz	30.000 MHz	10.000 kHz	7.427 50 MHz	-22.58 dBm	-33.58 dB	
30.000 MHz	1.000 GHz	100.000 kHz	630.125 00 MHz	-24.29 dBm	-35.29 dB	
30.000 MHz	1.000 GHz	100.000 kHz	552.475 00 MHz	-24.85 dBm	-35.85 dB	
30.000 MHz	1.000 GHz	100.000 kHz	625.675 00 MHz	-25.05 dBm	-36.05 dB	
30.000 MHz	1.000 GHz	100.000 kHz	555.275 00 MHz	-25.13 dBm	-36.13 dB	
30.000 MHz	1.000 GHz	100.000 kHz	571.225 00 MHz	-25.39 dBm	-36.39 dB	
30.000 MHz	1.000 GHz	100.000 kHz	605.825 00 MHz	-25.45 dBm	-36.45 dB	

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DATA (APCO25_4FSK), 10.12MHz, 13.7 dBm limit



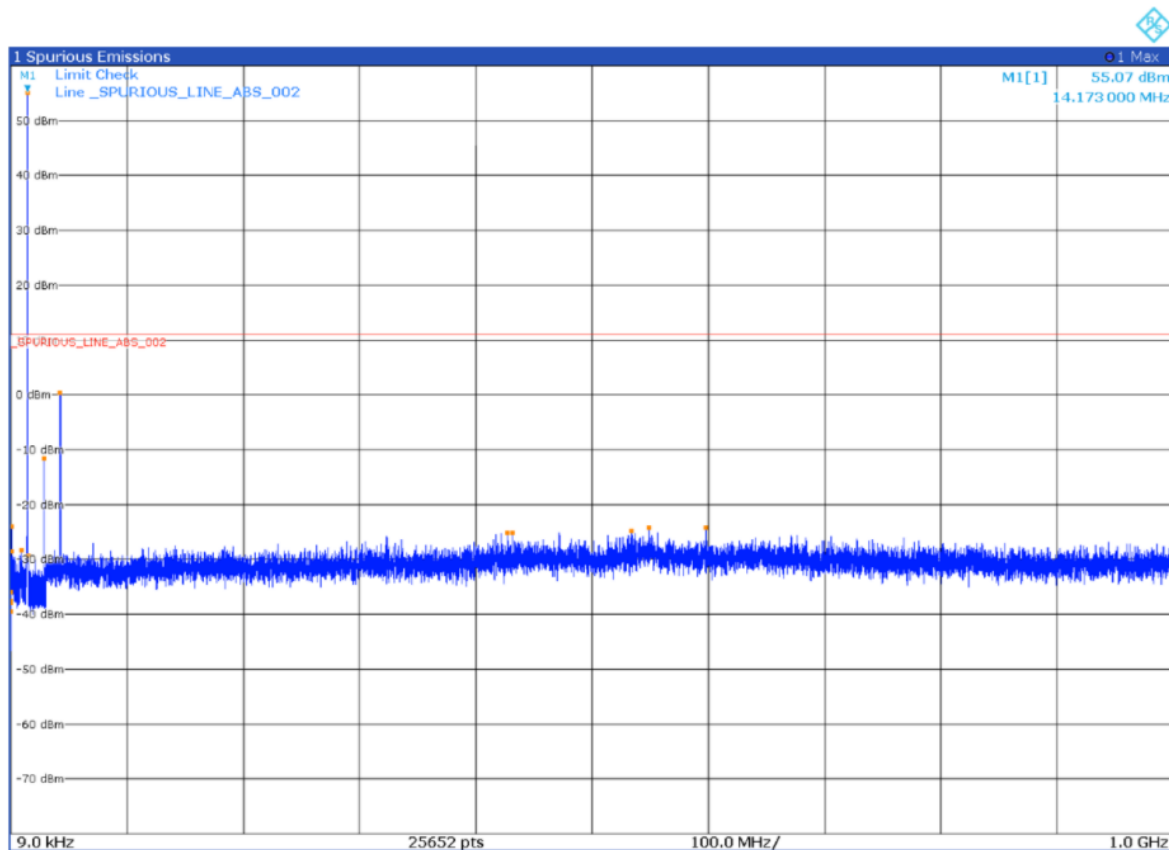
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
9.000 kHz	150.000 kHz	1.000 kHz	9.250 00 kHz	-34.70 dBm	-45.70 dB
9.000 kHz	150.000 kHz	1.000 kHz	137.250 00 kHz	-35.79 dBm	-46.79 dB
150.000 kHz	30.000 MHz	10.000 kHz	10.122 50 MHz	55.05 dBm	44.05 dB
150.000 kHz	30.000 MHz	10.000 kHz	20.247 50 MHz	-7.06 dBm	-18.06 dB
150.000 kHz	30.000 MHz	10.000 kHz	447.500 00 kHz	-12.86 dBm	-23.86 dB
150.000 kHz	30.000 MHz	10.000 kHz	10.577 50 MHz	-24.77 dBm	-35.77 dB
150.000 kHz	30.000 MHz	10.000 kHz	1.342 50 MHz	-26.00 dBm	-37.00 dB
30.000 MHz	1.000 GHz	100.000 kHz	30.375 00 MHz	-14.69 dBm	-25.69 dB
30.000 MHz	1.000 GHz	100.000 kHz	551.075 00 MHz	-22.97 dBm	-33.97 dB
30.000 MHz	1.000 GHz	100.000 kHz	839.275 00 MHz	-24.42 dBm	-35.42 dB
30.000 MHz	1.000 GHz	100.000 kHz	341.625 00 MHz	-24.84 dBm	-35.84 dB

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DATA (APCO25_4FSK), 14.17 MHz, 13.4 dBm limit



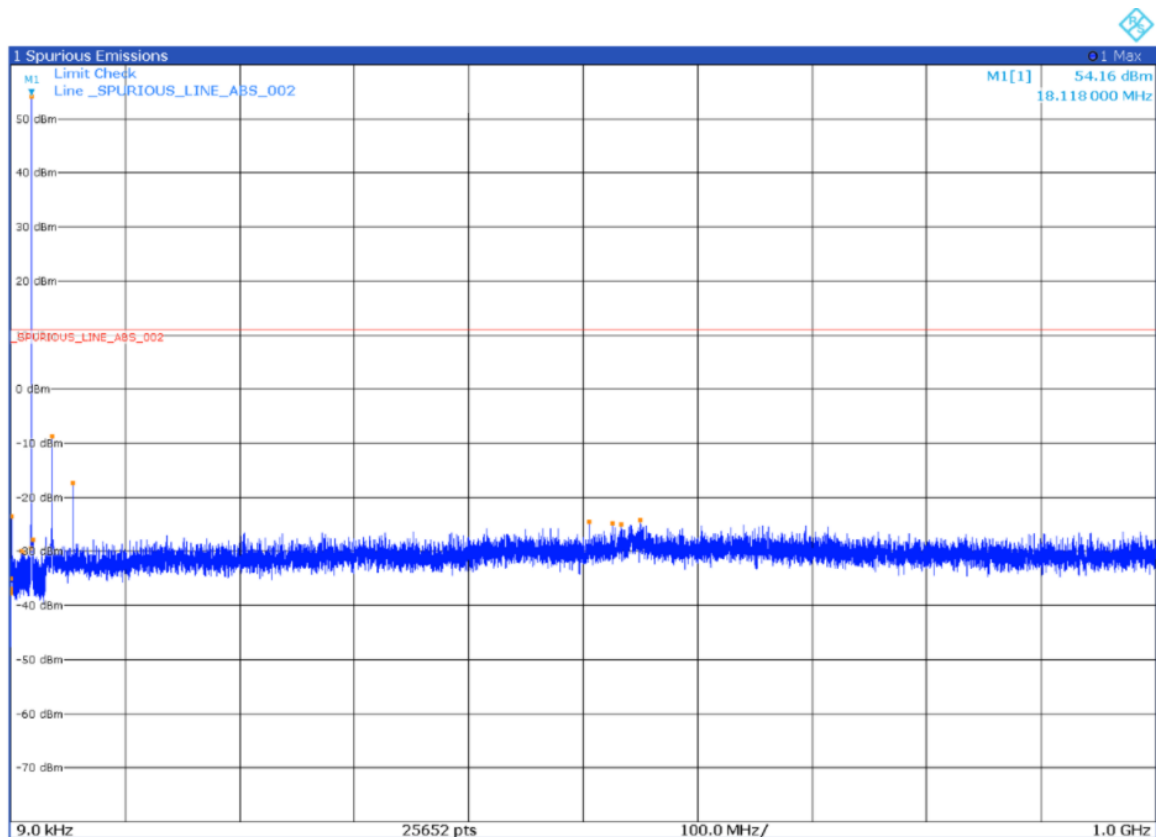
Range Low	Range Up	RBW	Frequency	Power Abs	ALimit
9.000 kHz	150.000 kHz	1.000 kHz	81.750 00 kHz	-35.98 dBm	-46.98 dB
9.000 kHz	150.000 kHz	1.000 kHz	18.250 00 kHz	-37.56 dBm	-48.56 dB
9.000 kHz	150.000 kHz	1.000 kHz	136.250 00 kHz	-37.76 dBm	-48.76 dB
9.000 kHz	150.000 kHz	1.000 kHz	146.750 00 kHz	-37.83 dBm	-48.83 dB
9.000 kHz	150.000 kHz	1.000 kHz	126.250 00 kHz	-39.49 dBm	-50.49 dB
150.000 kHz	30.000 MHz	10.000 kHz	14.172 50 MHz	55.07 dBm	44.07 dB
150.000 kHz	30.000 MHz	10.000 kHz	28.347 50 MHz	-11.53 dBm	-22.53 dB
150.000 kHz	30.000 MHz	10.000 kHz	447.500 00 kHz	-24.02 dBm	-35.02 dB
150.000 kHz	30.000 MHz	10.000 kHz	9.302 50 MHz	-28.36 dBm	-39.36 dB
150.000 kHz	30.000 MHz	10.000 kHz	757.500 00 kHz	-28.48 dBm	-39.48 dB
150.000 kHz	30.000 MHz	10.000 kHz	15.247 50 MHz	-29.26 dBm	-40.26 dB
30.000 MHz	1.000 GHz	100.000 kHz	42.525 00 MHz	0.36 dBm	-10.64 dB
30.000 MHz	1.000 GHz	100.000 kHz	548.775 00 MHz	-24.13 dBm	-35.13 dB
30.000 MHz	1.000 GHz	100.000 kHz	597.575 00 MHz	-24.18 dBm	-35.18 dB
30.000 MHz	1.000 GHz	100.000 kHz	534.025 00 MHz	-24.90 dBm	-35.90 dB
30.000 MHz	1.000 GHz	100.000 kHz	426.925 00 MHz	-25.14 dBm	-36.14 dB
30.000 MHz	1.000 GHz	100.000 kHz	431.525 00 MHz	-25.19 dBm	-36.19 dB

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DATA (APCO25_4FSK), 18.12 MHz, 13.8 dBm limit



Range Low	Range Up	RBW	Frequency	Power Abs.	ALimit
9.000 kHz	150.000 kHz	1.000 kHz	81.75000 kHz	-35.00 dBm	-46.00 dB
9.000 kHz	150.000 kHz	1.000 kHz	137.25000 kHz	-37.00 dBm	-48.00 dB
9.000 kHz	150.000 kHz	1.000 kHz	126.75000 kHz	-37.53 dBm	-48.53 dB
9.000 kHz	150.000 kHz	1.000 kHz	17.25000 kHz	-37.80 dBm	-48.80 dB
150.000 kHz	30.000 MHz	10.000 kHz	18.11750 MHz	54.16 dBm	43.16 dB
150.000 kHz	30.000 MHz	10.000 kHz	447.50000 kHz	-23.53 dBm	-34.53 dB
150.000 kHz	30.000 MHz	10.000 kHz	19.21250 MHz	-27.92 dBm	-38.92 dB
150.000 kHz	30.000 MHz	10.000 kHz	17.04750 MHz	-29.38 dBm	-40.38 dB
150.000 kHz	30.000 MHz	10.000 kHz	9.25750 MHz	-30.00 dBm	-41.00 dB
150.000 kHz	30.000 MHz	10.000 kHz	10.94250 MHz	-30.13 dBm	-41.13 dB
30.000 MHz	1.000 GHz	100.000 kHz	36.22500 MHz	-8.66 dBm	-19.66 dB
30.000 MHz	1.000 GHz	100.000 kHz	54.37500 MHz	-17.28 dBm	-28.28 dB
30.000 MHz	1.000 GHz	100.000 kHz	549.82500 MHz	-24.26 dBm	-35.26 dB
30.000 MHz	1.000 GHz	100.000 kHz	505.32500 MHz	-24.57 dBm	-35.57 dB
30.000 MHz	1.000 GHz	100.000 kHz	525.72500 MHz	-24.82 dBm	-35.82 dB
30.000 MHz	1.000 GHz	100.000 kHz	533.47500 MHz	-25.05 dBm	-36.05 dB