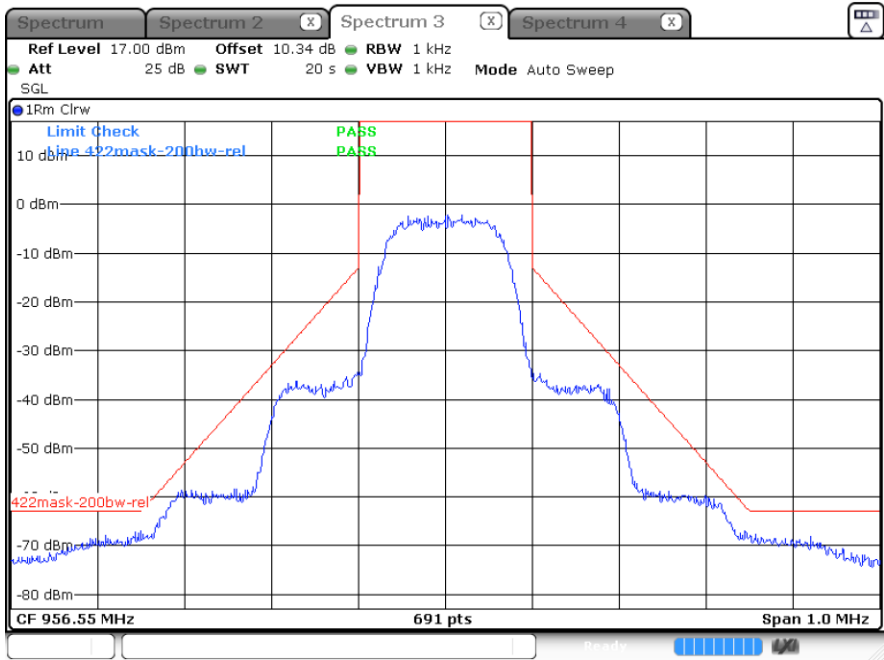
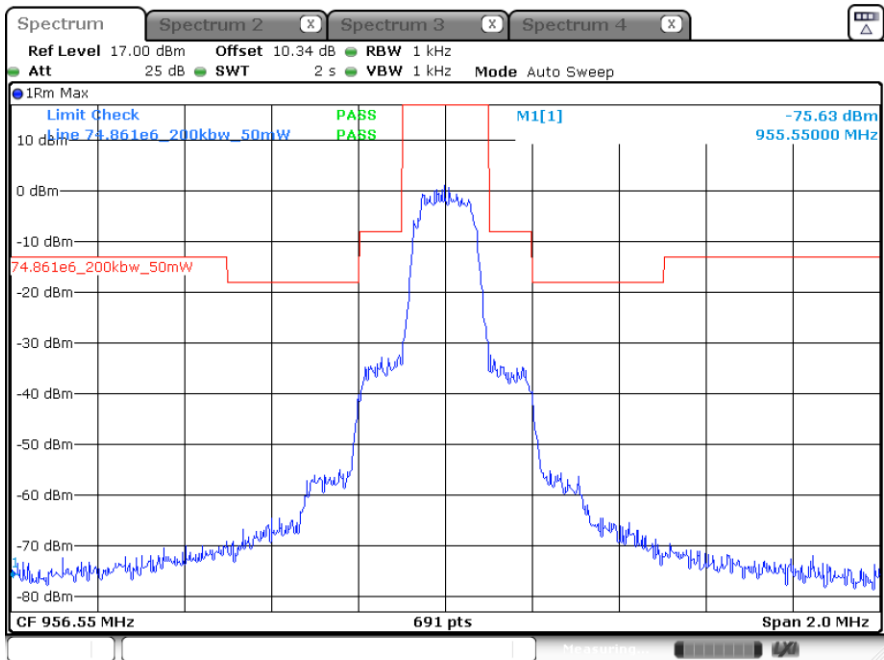


D2 mode: 956.550 MHz, Emission Mask (1)



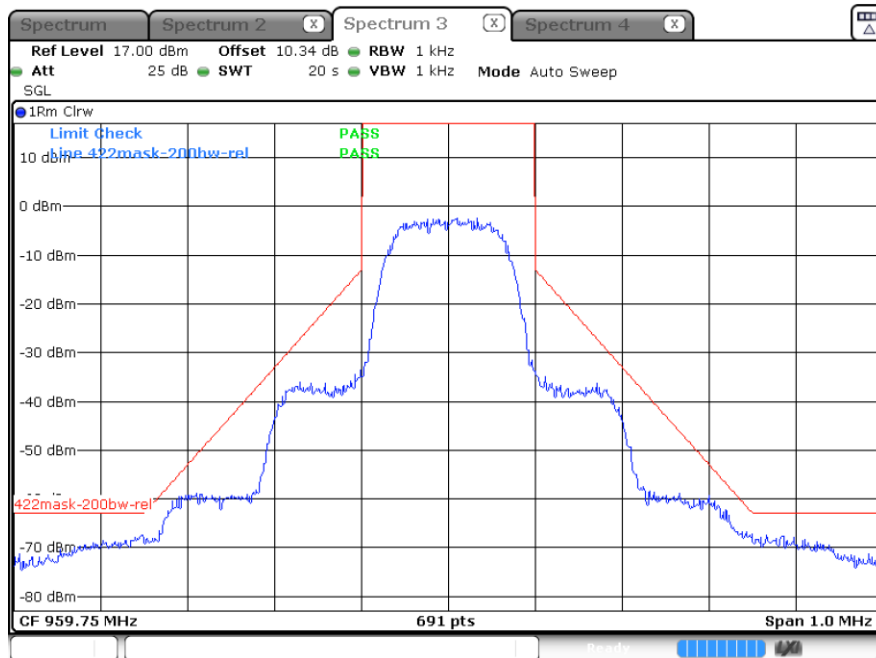
Date: 29. JAN.2025 22:47:35

D2 mode: 956.550 MHz, Emission Mask (2)



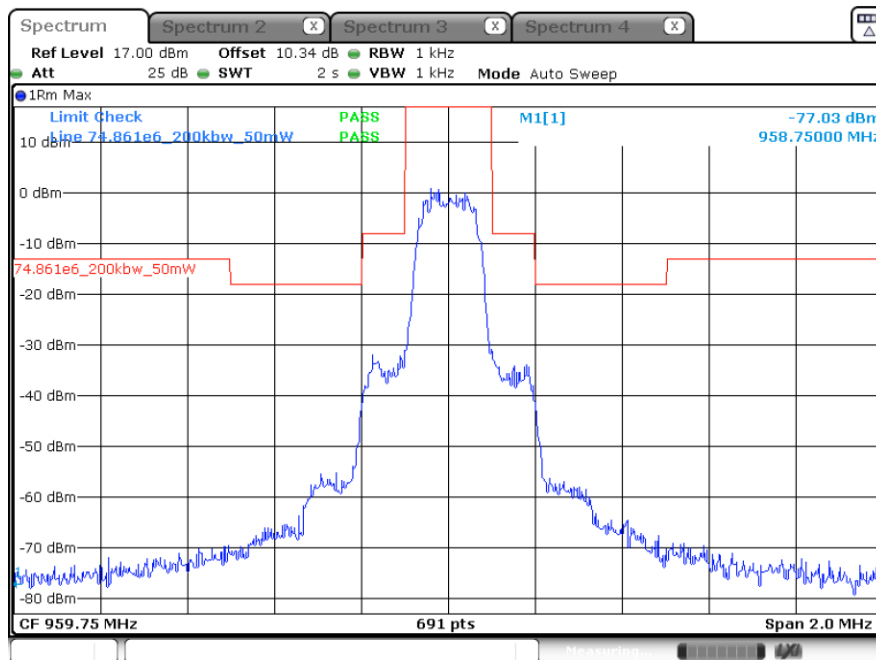
Date: 29. JAN.2025 22:46:23

D2 mode: 959.750 MHz, Emission Mask (1)



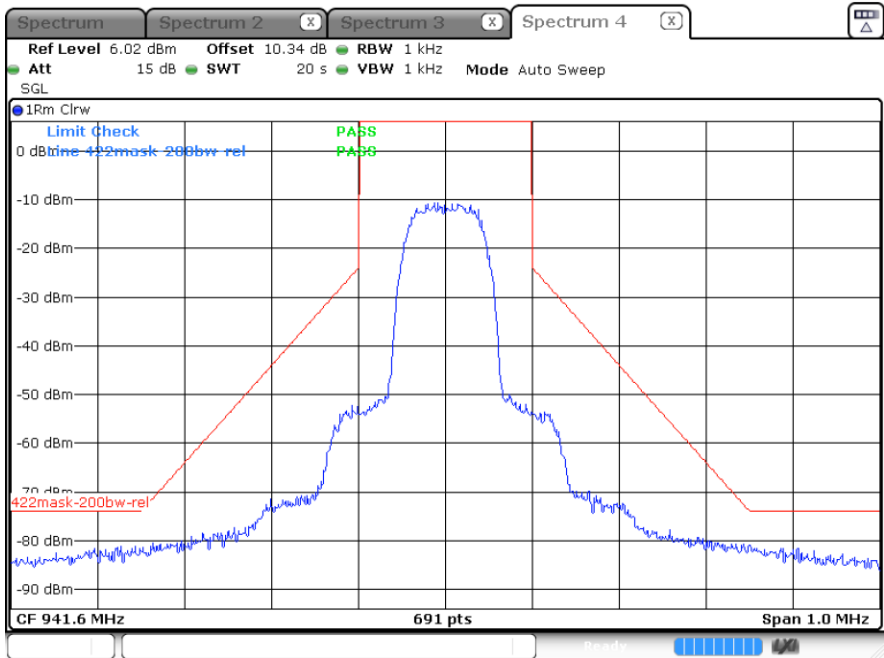
Date: 29 JAN 2025 22:57:27

D2 mode: 959.750 MHz, Emission Mask (2)



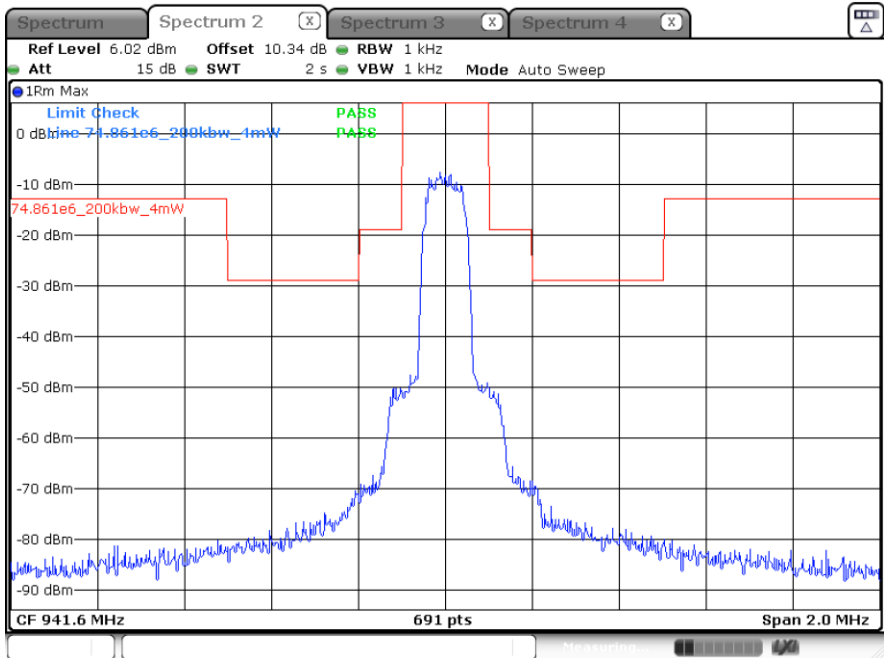
Date: 29 JAN 2025 22:53:21

HDM mode: 941.600 MHz, Emission Mask (1)



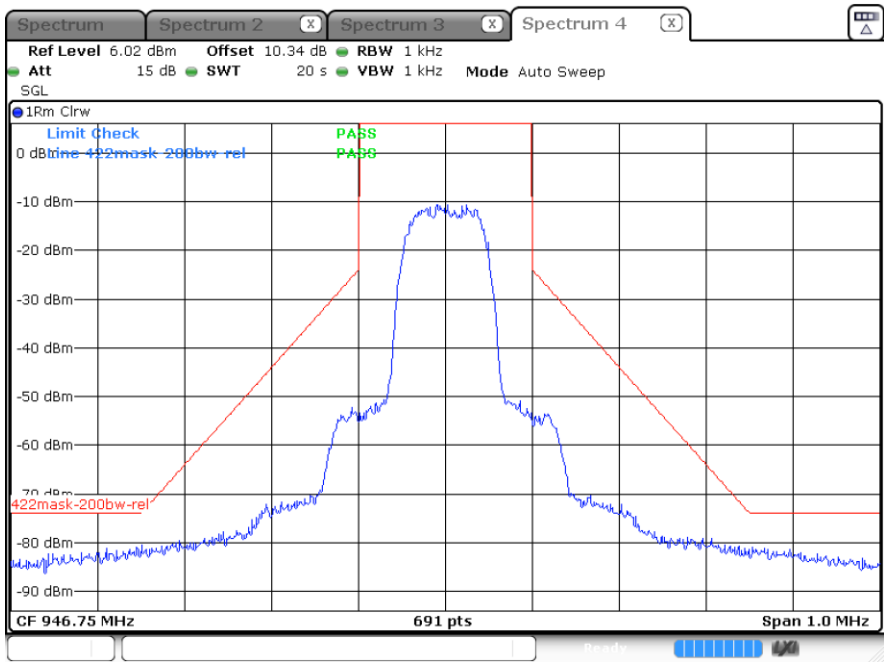
Date: 29. JAN.2025 22:15:58

HDM mode: 941.600 MHz, Emission Mask (2)



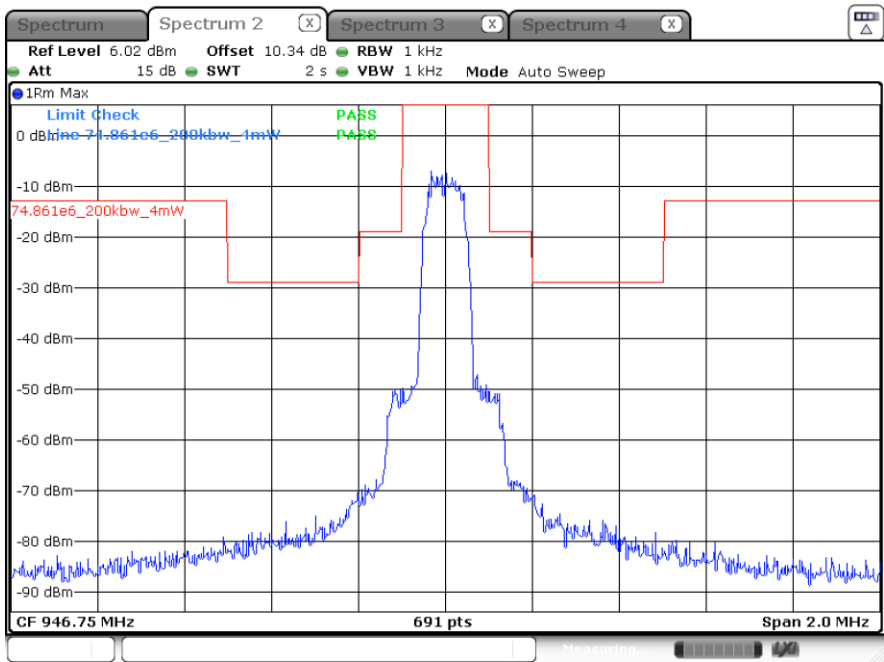
Date: 29. JAN.2025 22:18:00

HDM mode: 946.750 MHz, Emission Mask (1)



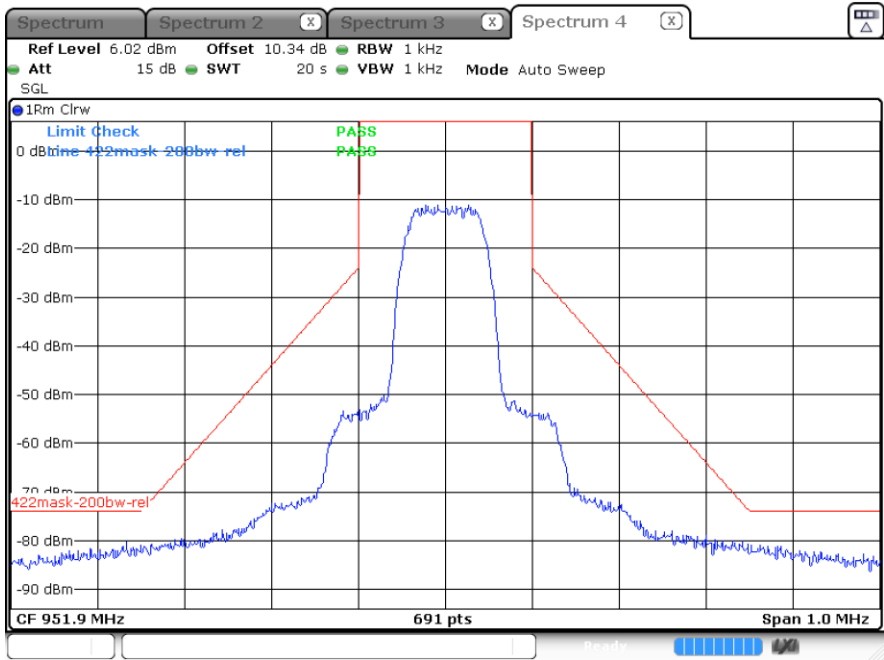
Date: 29. JAN.2025 22:30:22

HDM mode: 946.750 MHz, Emission Mask (2)



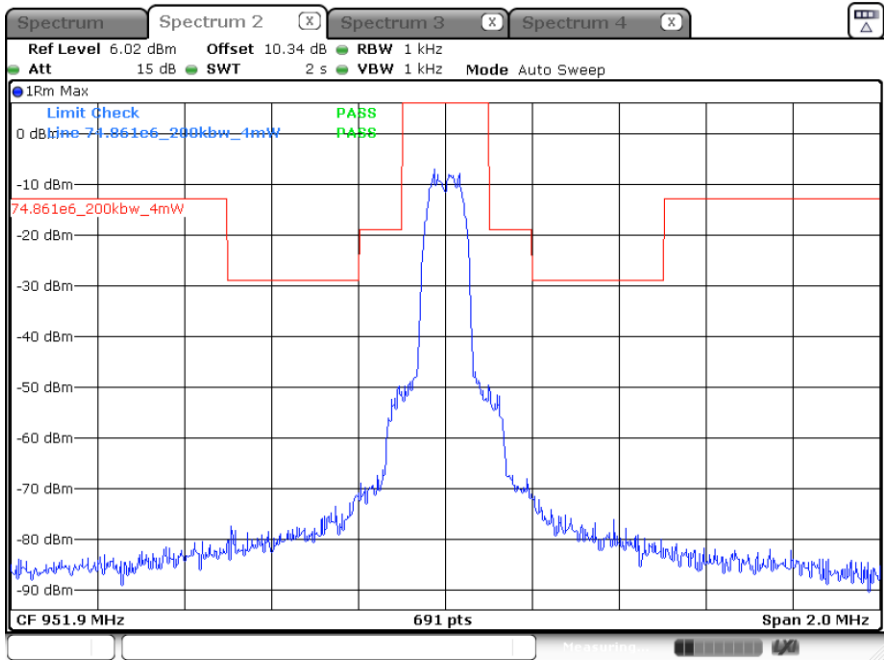
Date: 29. JAN.2025 22:30:39

HDM mode: 951.900 MHz, Emission Mask (1)



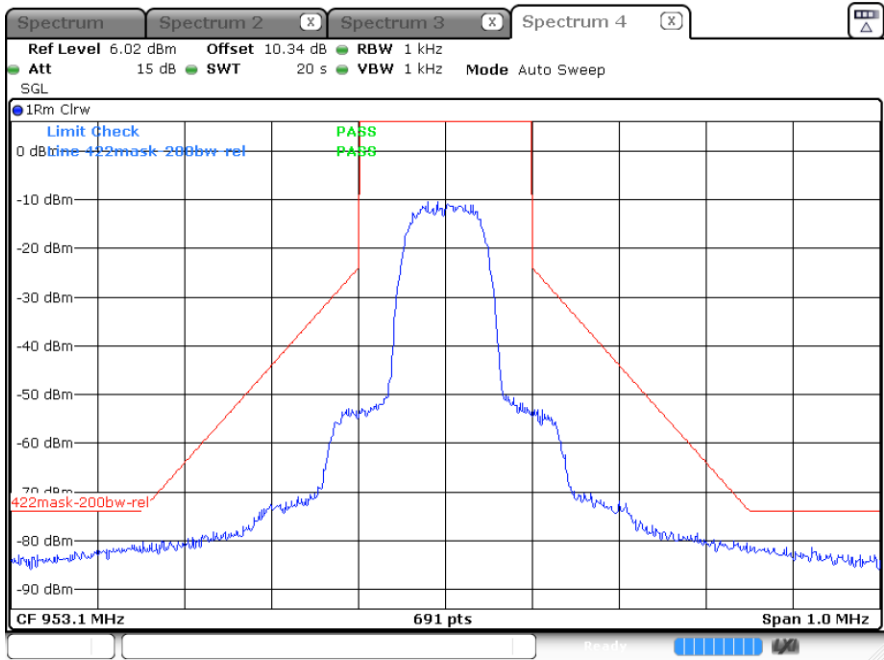
Date: 29. JAN.2025 22:33:58

HDM mode: 951.900 MHz, Emission Mask (2)



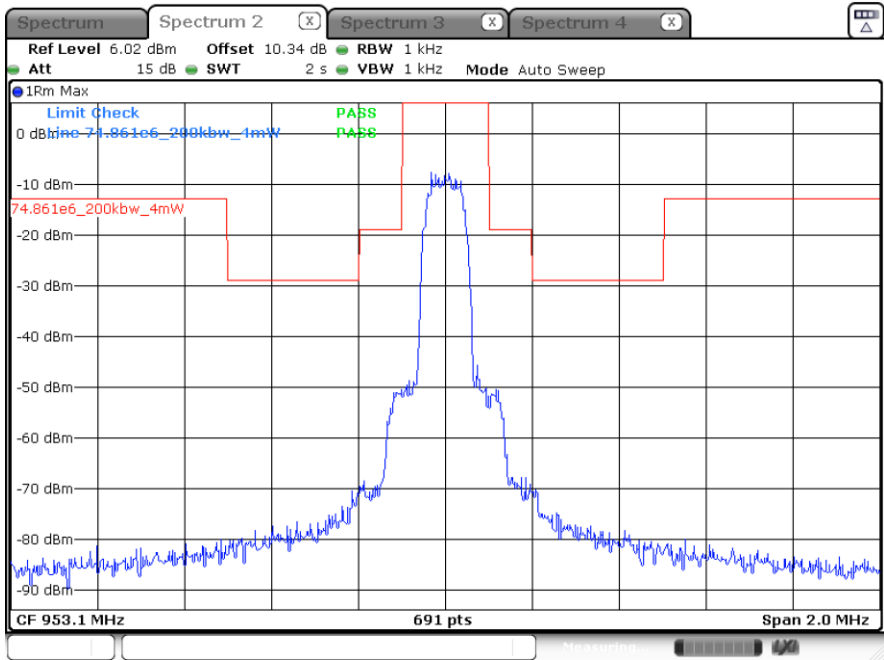
Date: 29. JAN.2025 22:33:26

HDM mode: 953.100 MHz, Emission Mask (1)



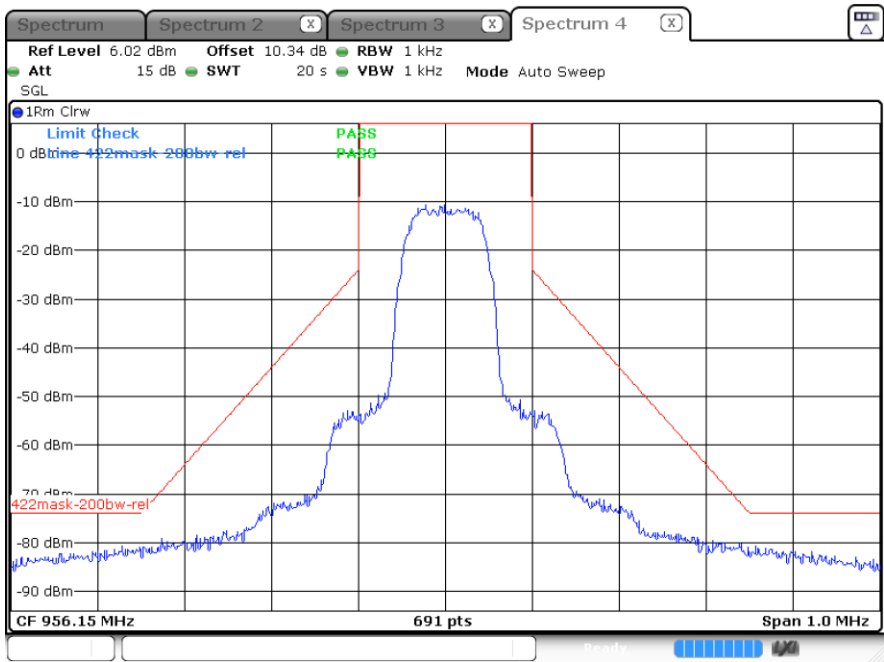
Date: 29. JAN.2025 22:39:23

HDM mode: 953.100 MHz, Emission Mask (2)



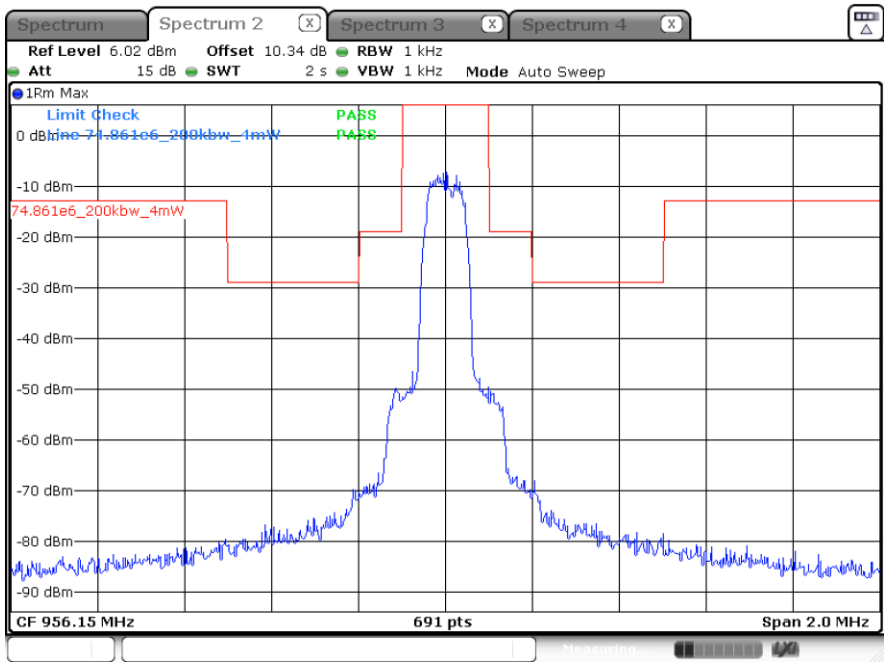
Date: 29. JAN.2025 22:40:09

HDM mode: 956.150 MHz, Emission Mask (1)

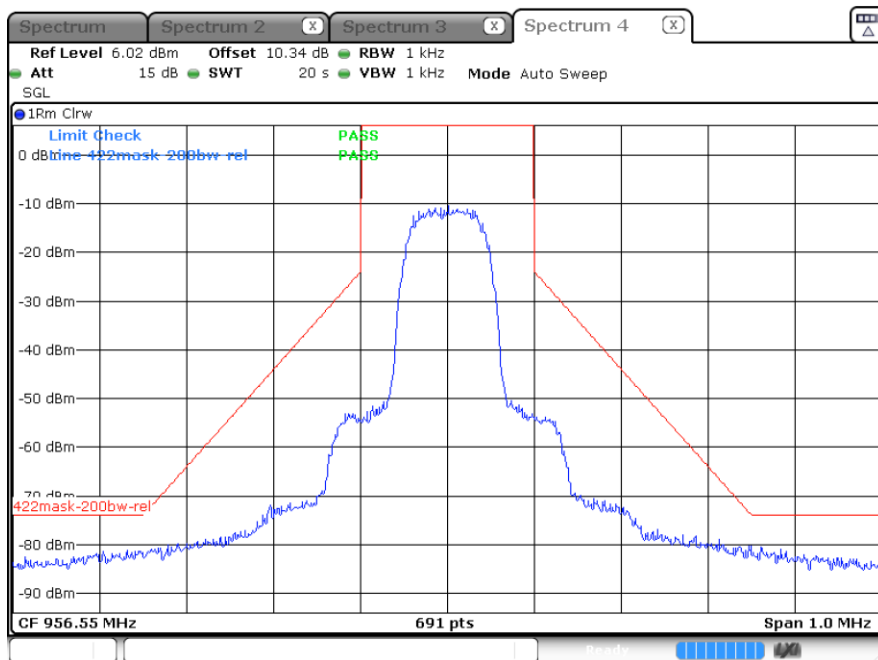


Date: 29. JAN.2025 22:42:24

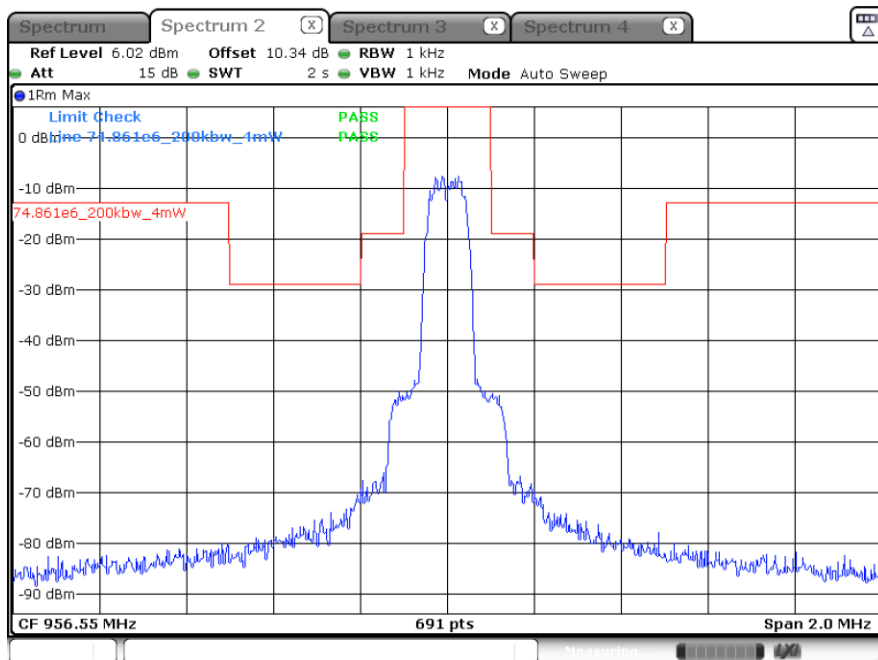
HDM mode: 956.150 MHz, Emission Mask (2)



Date: 29. JAN.2025 22:41:16

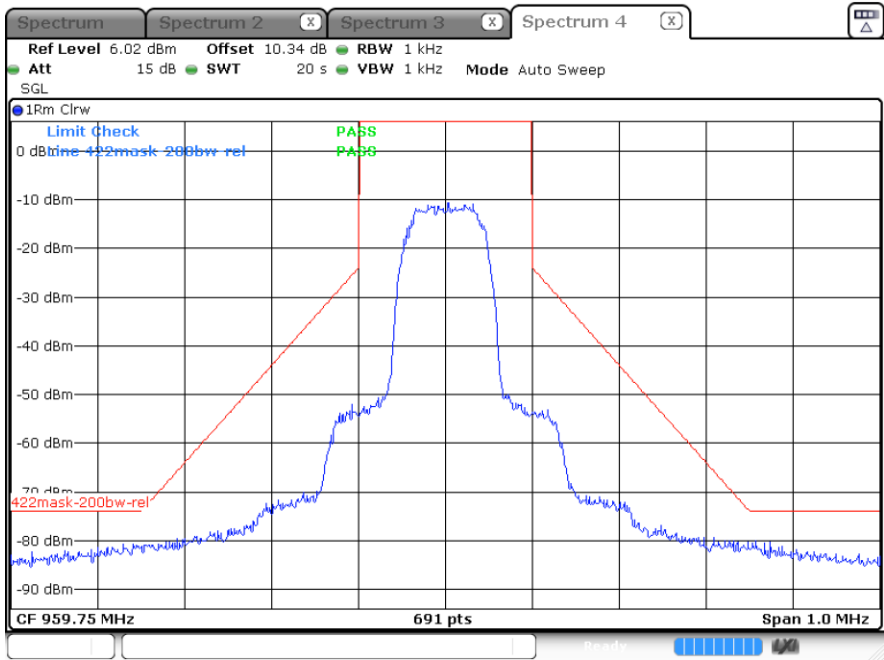
HDM mode: 956.550 MHz, Emission Mask (1)

Date: 29. JAN.2025 22:50:32

HDM mode: 956.550 MHz, Emission Mask (2)

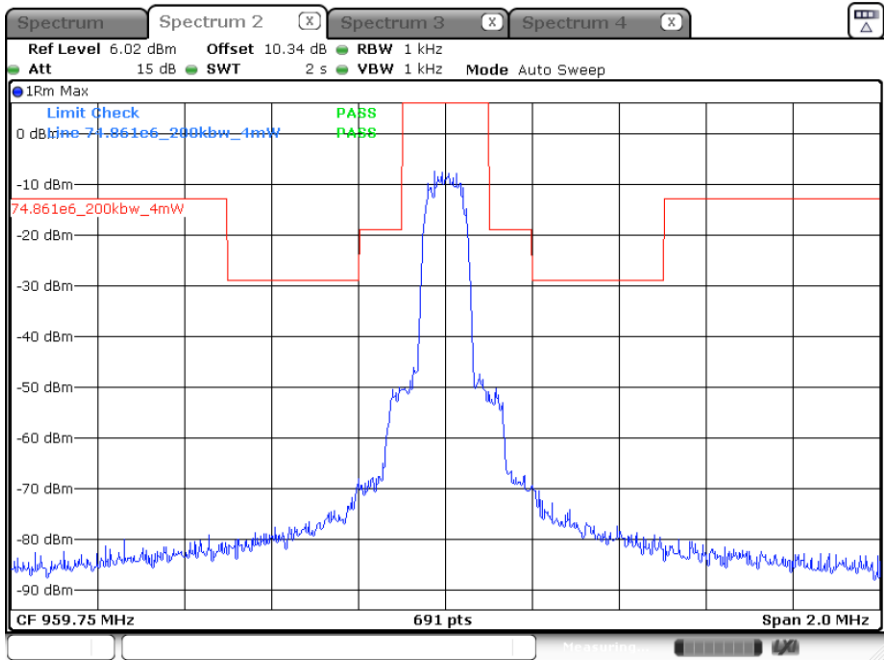
Date: 29. JAN.2025 22:51:19

HDM mode: 959.750 MHz, Emission Mask (1)



Date: 29 JAN 2025 22:58:41

HDM mode: 959.750 MHz, Emission Mask (2)



Date: 29 JAN 2025 22:52:20

6. FCC §74.861(d)(4)(iv), RSS-123 Section 5.3 & ETSI EN 300 422-1 (4.2.4.1.2) – Spurious Emissions at Antenna Port

6.1 Applicable Standards

According to FCC §74.861 (d)(4)(iv):

Emissions outside of the emission masks specified in paragraphs (d)(4)(i) through (iii) of this section shall comply with the limits specified in section 4.2.4.1.2 of ETSI EN 300 422-1 V2.2.1 (2021-11) (incorporated by reference, see § 74.35).

According to RSS-123 Section 5.3 (f):

For all wireless microphones, the emissions outside of the emission masks specified in 5.3(c), 5.3(d) and 5.3(e) shall comply with the limits specified in section 4.2.4.1.2 of ETSI EN 300 422-1..

According to ETSI EN 300 422-1 V2.2.1 (2021-11) Section 4.2.4.1.2:

The level of transmitter unwanted emissions in the spurious domain shall not exceed the limits given in table 4.

**Table 4: Transmitter unwanted emission limits
(from ERC Recommendation 74-01 [2])**

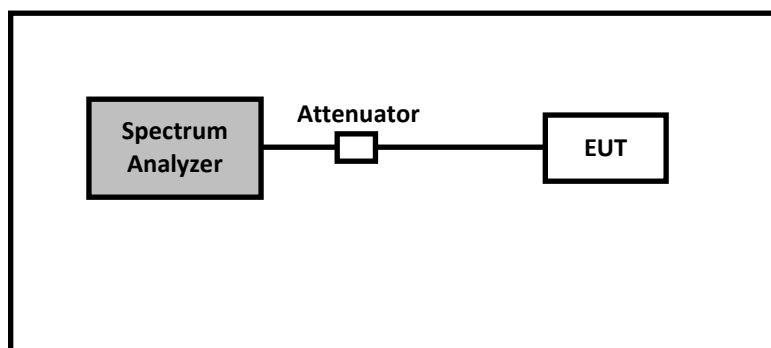
Frequency range	Maximum power	RBW
9 kHz - 150 kHz	-36 dBm	1 kHz
150 kHz - 30 MHz	-36 dBm	10 kHz
30 MHz - 1 GHz	-36 dBm	$F_c + 2,5 B \leq f \leq f_c + 4 B$: 1 kHz $F_c + 4 B < f \leq f_c + 10 B$: 10 kHz $f > f_c + 10 B$: 100 kHz $f < f_c - 10 B$: 100 kHz $f_c - 10 B \leq f < f_c - 4 B$: 10 kHz $f_c - 4 B \leq f \leq f_c - 2,5 B$: 1 kHz
except:		
47 MHz - 74 MHz 87,5 MHz - 118 MHz	-54 dBm	100 kHz
174 MHz - 230 MHz 470 MHz - 862 MHz	-54 dBm	$F_c + 2,5 B \leq f \leq f_c + 4 B$: 1 kHz $F_c + 4 B < f \leq f_c + 10 B$: 10 kHz $f > f_c + 10 B$: 100 kHz $f < f_c - 10 B$: 100 kHz $f_c - 10 B \leq f < f_c - 4 B$: 10 kHz $f_c - 4 B \leq f \leq f_c - 2,5 B$: 1 kHz
$1 \text{ GHz} < f \leq F_{\text{upper}}$	-30 dBm	$F_c + 2,5 B \leq f \leq f_c + 10 B$: 30 kHz $F_c + 10 B < f \leq f_c + 12 B$: 300 kHz $f > f_c + 12 B$: 1 MHz $f < f_c - 12 B$: 1 MHz $f_c - 12 B \leq f < f_c - 10 B$: 300 kHz $f_c - 10 B \leq f \leq f_c - 2,5 B$: 30 kHz

with B being the Declared Channel Bandwidth.

6.2 Test Procedure

Please refer to KDB 971168 D01 v03r01 Section 6 and ETSI EN 300 422-1 V2.2.1 (2021-11) Section 5.4.4.

6.3 Test Setup Block Diagram



6.4 Test Equipment List and Details

BACL No.	Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Interval
912	Rohde & Schwarz	Signal Analyzer	FSV40	1321.3008k39-101203-UW	2024-07-25	1 year
-	-	10dB Attenuator	-	-	Each time ¹	Each time ¹
-	-	RF Cable	-	-	Each time ¹	Each time ¹

Note¹: cable and attenuator included in the test set-up were checked each time before testing.

Statement of Traceability: *BACL Corp.* attests that all of the calibrations on the equipment items listed above were traceable to NIST or to another internationally recognized National Metrology Institute (NMI), and were compliant with the latest version of A2LA policy P102 “A2LA Policy on Metrological Traceability”.

6.5 Test Environmental Conditions

Temperature:	17 to 19 °C
Relative Humidity:	47.2 to 51.7 %
ATM Pressure:	101.2 to 101.7 kPa

The testing was performed by Arturo Reyes from 2024-12-04 to 2024-12-16 at RF test site.

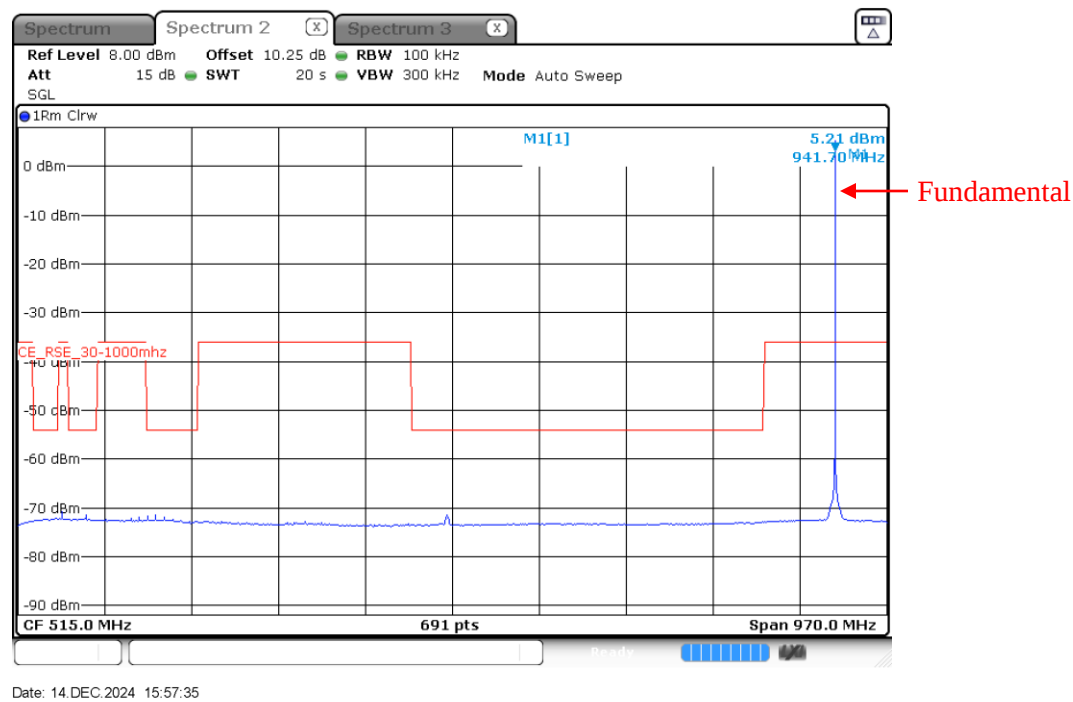
6.6 Test Results

Test Result: Pass

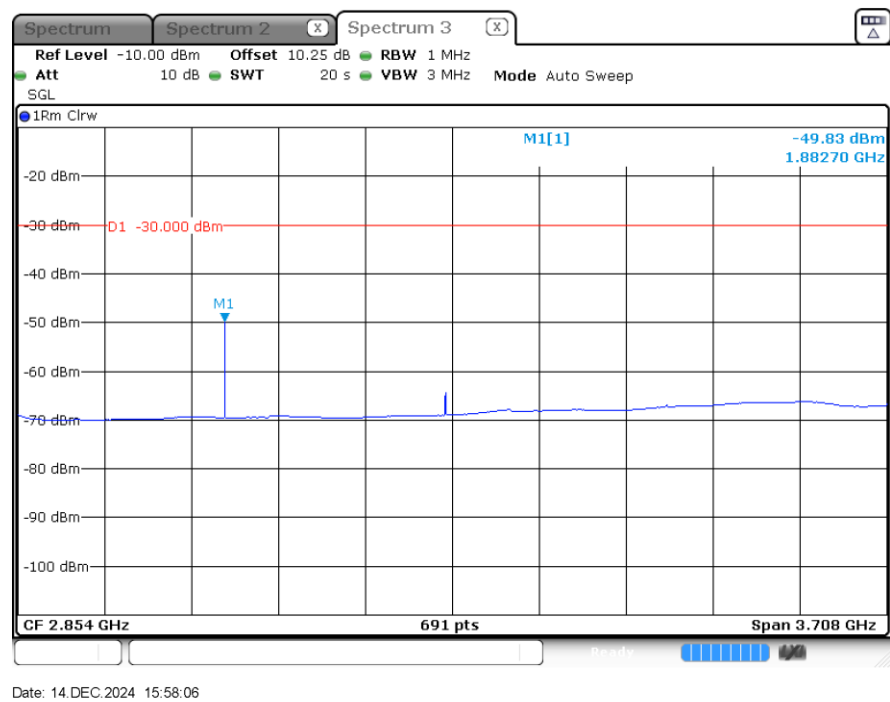
Please refer to Section 6.7 for detailed Spurious Emissions at Antenna Port plots.

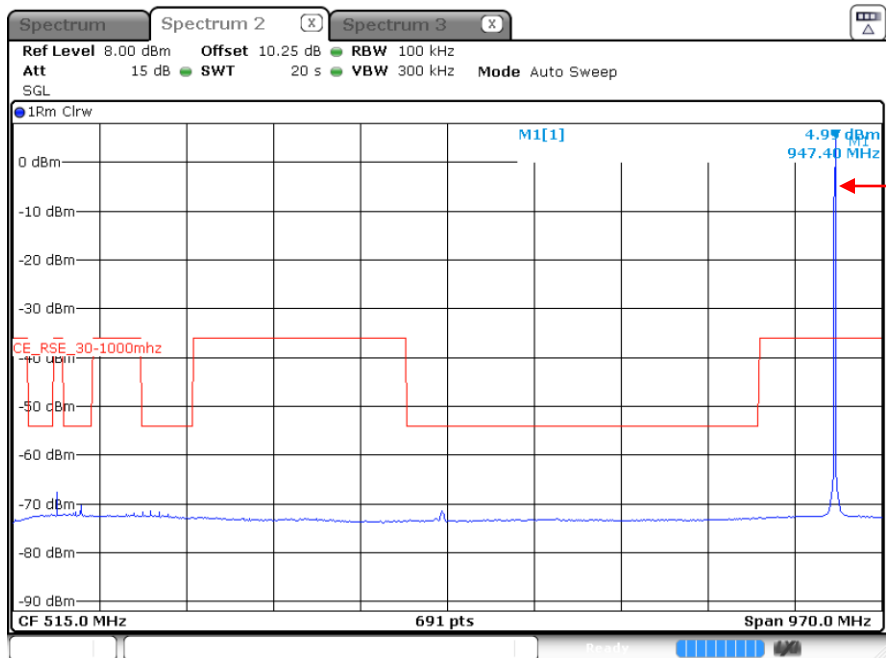
6.7 Spurious Emissions at Antenna Port Test Plots

D2 mode: 941.600 MHz, 30-1000 MHz

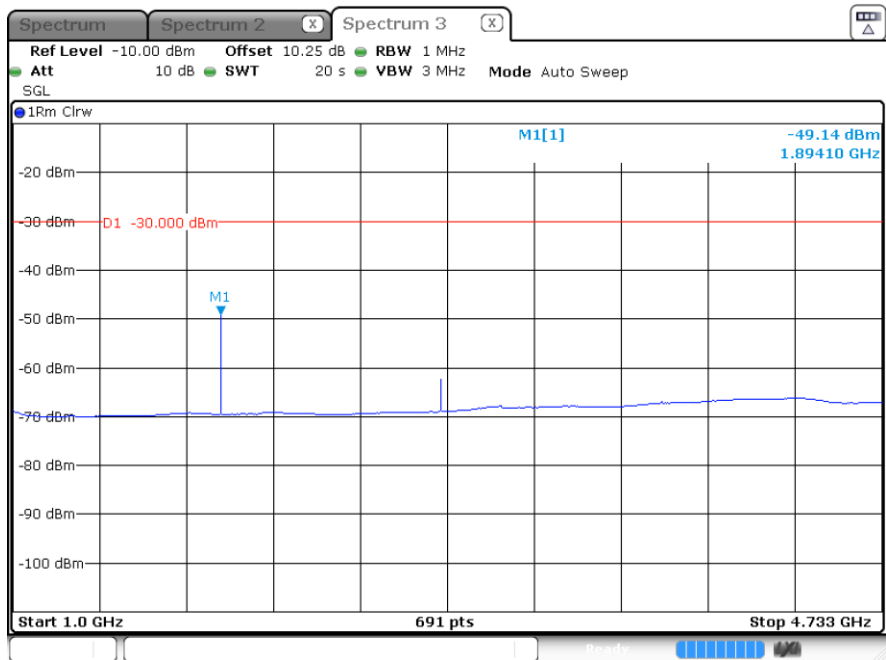


D2 mode: 941.600 MHz, Above 1 GHz

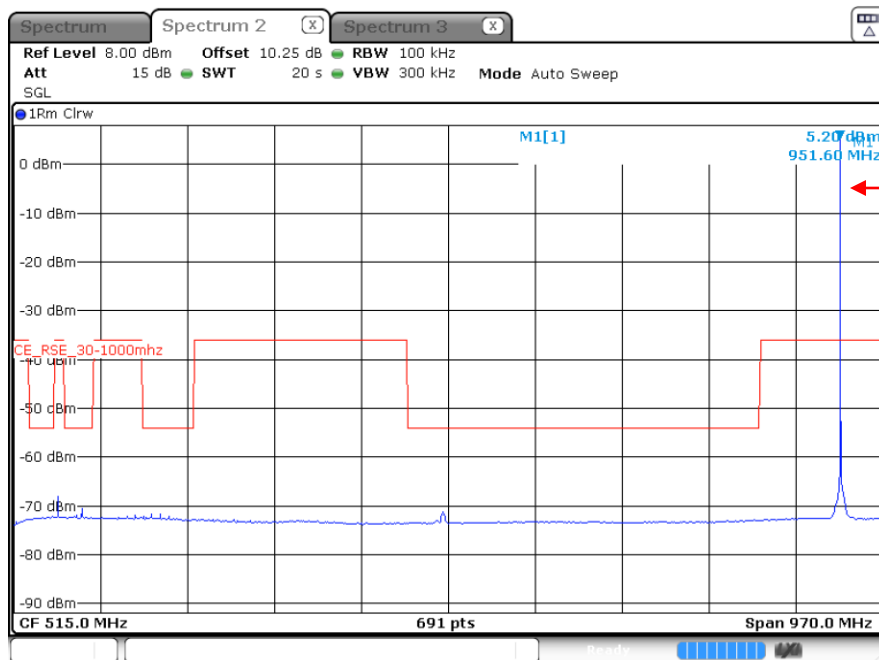


D2 mode: 946.750 MHz, 30-1000 MHz

Date: 14 DEC 2024 16:04:16

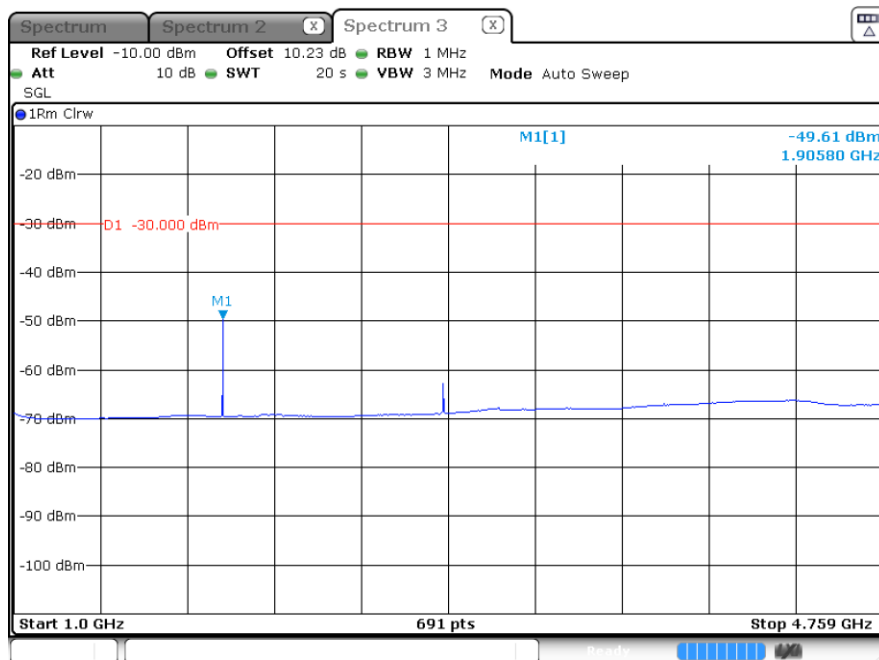
D2 mode: 946.750 MHz, Above 1 GHz

Date: 14 DEC 2024 16:01:38

D2 mode: 951.900 MHz, 30-1000 MHz

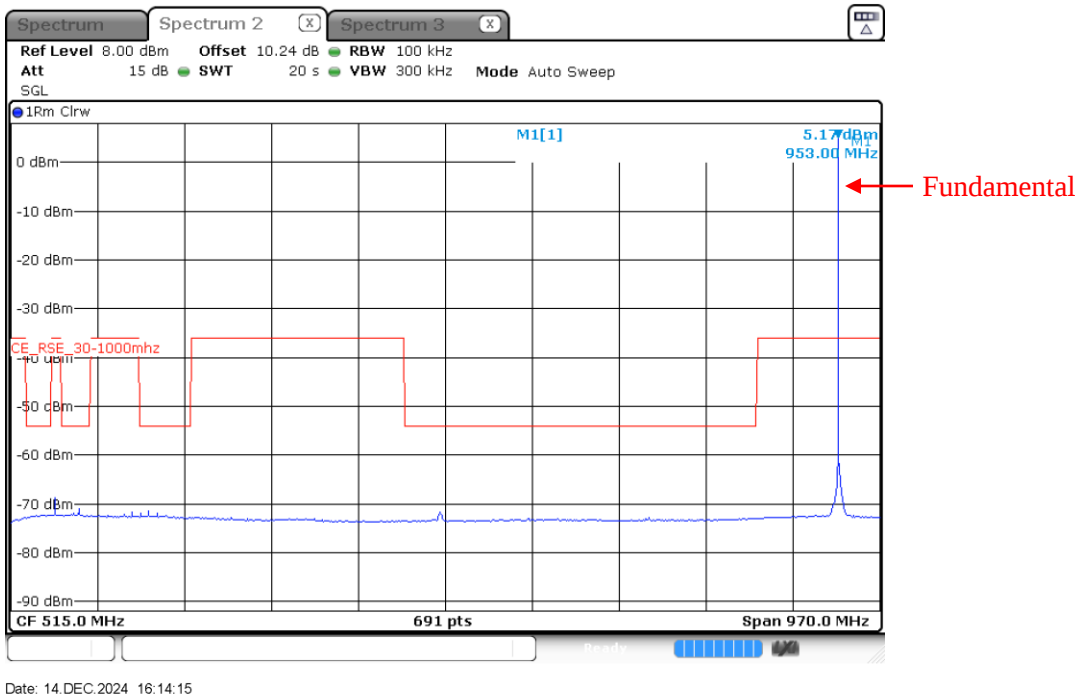
Fundamental

Date: 14 DEC 2024 16:05:26

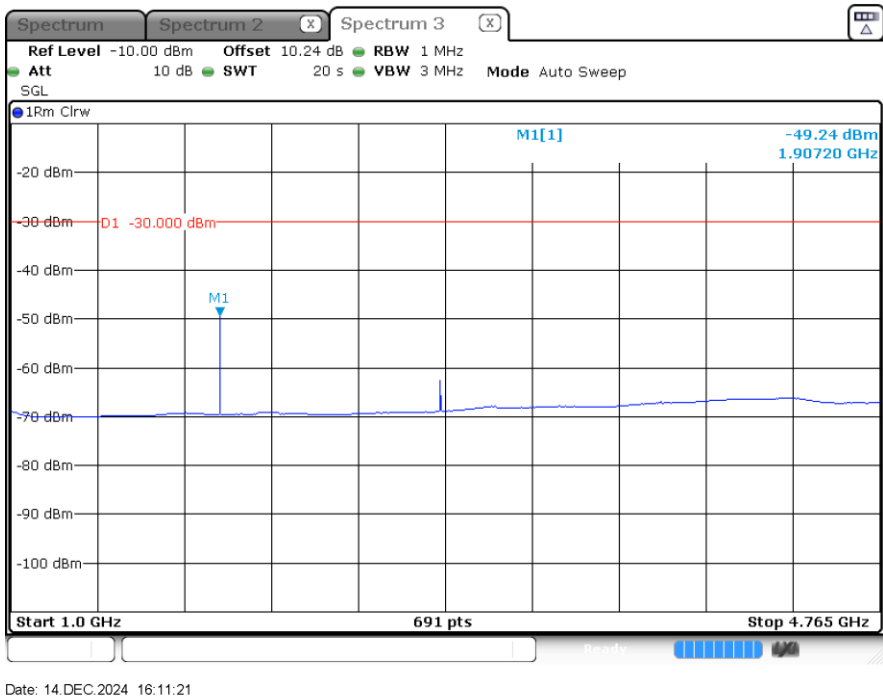
D2 mode: 951.900 MHz, Above 1 GHz

Date: 14 DEC 2024 16:48:58

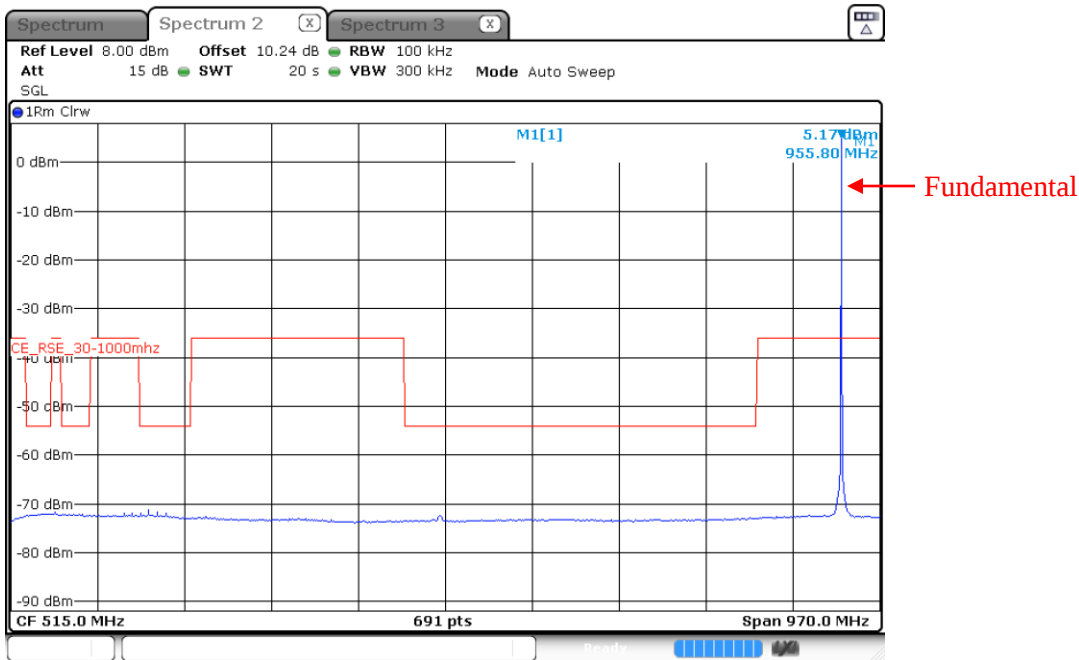
D2 mode: 953.100 MHz, 30-1000 MHz



D2 mode: 953.100 MHz, Above 1 GHz

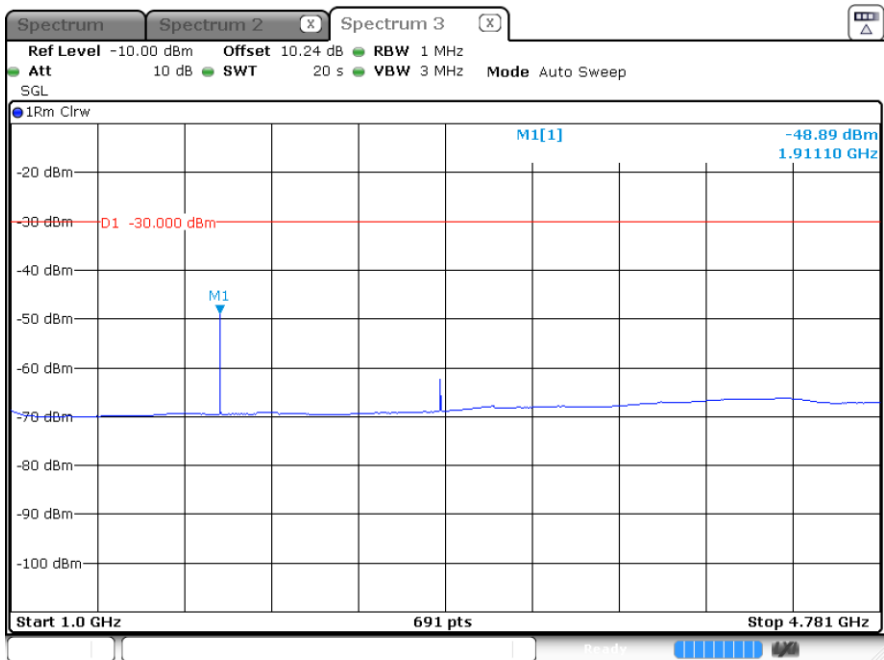


D2 mode: 956.150 MHz, 30-1000 MHz



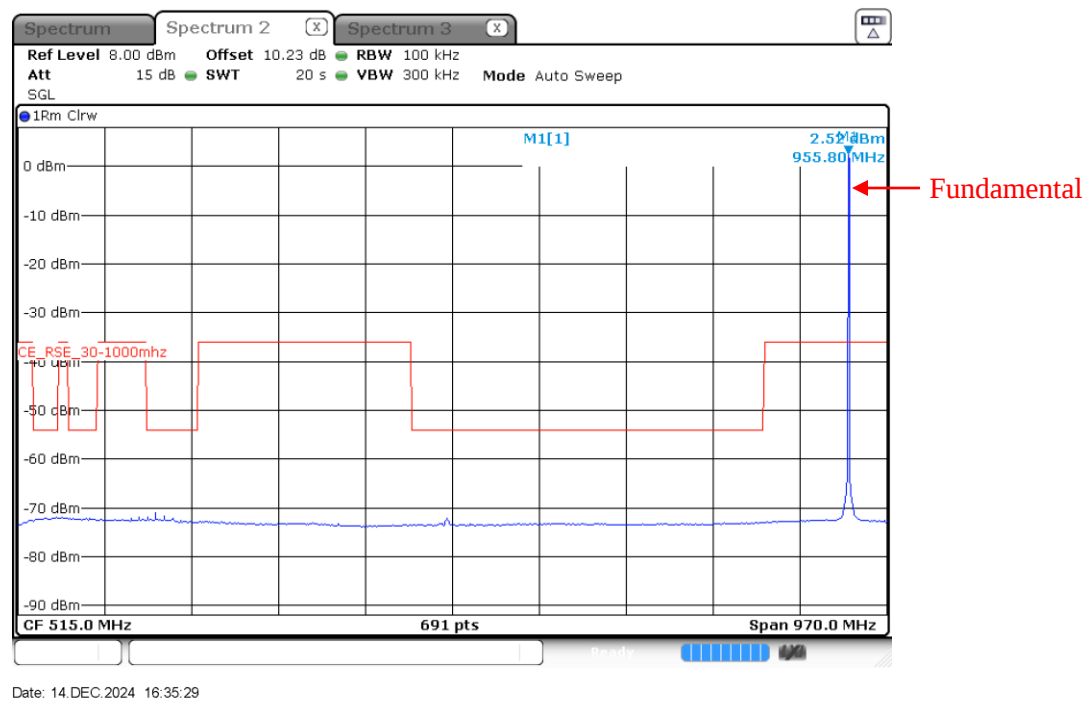
Date: 14 DEC 2024 16:24:30

D2 mode: 956.150 MHz, Above 1 GHz

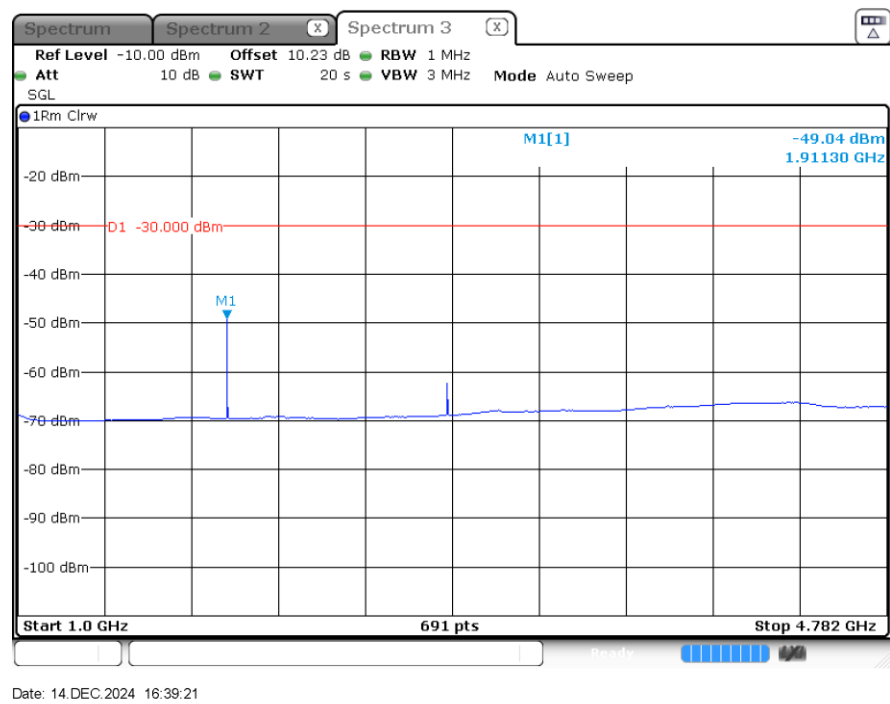


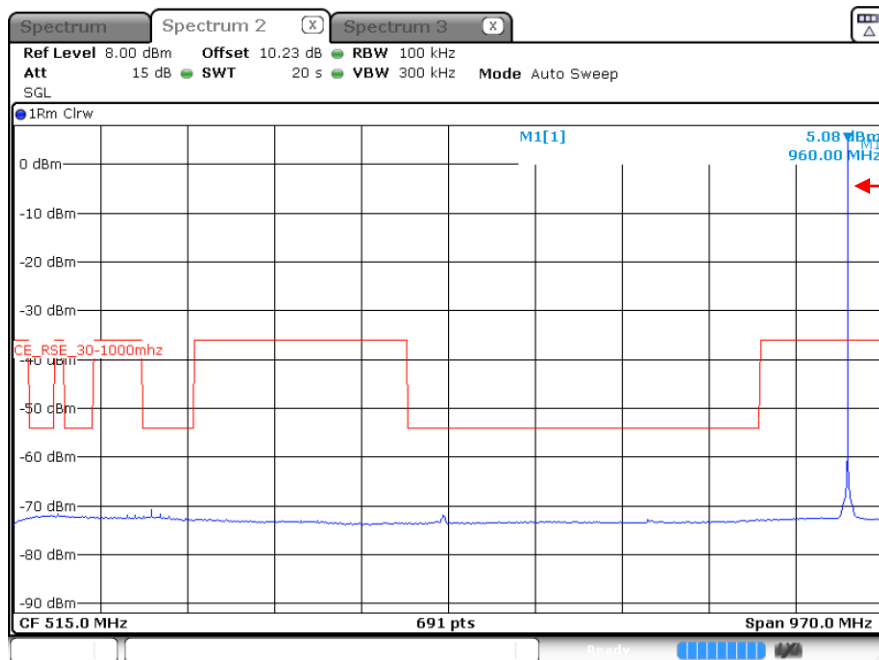
Date: 14 DEC 2024 16:23:29

D2 mode: 956.550 MHz, 30-1000 MHz



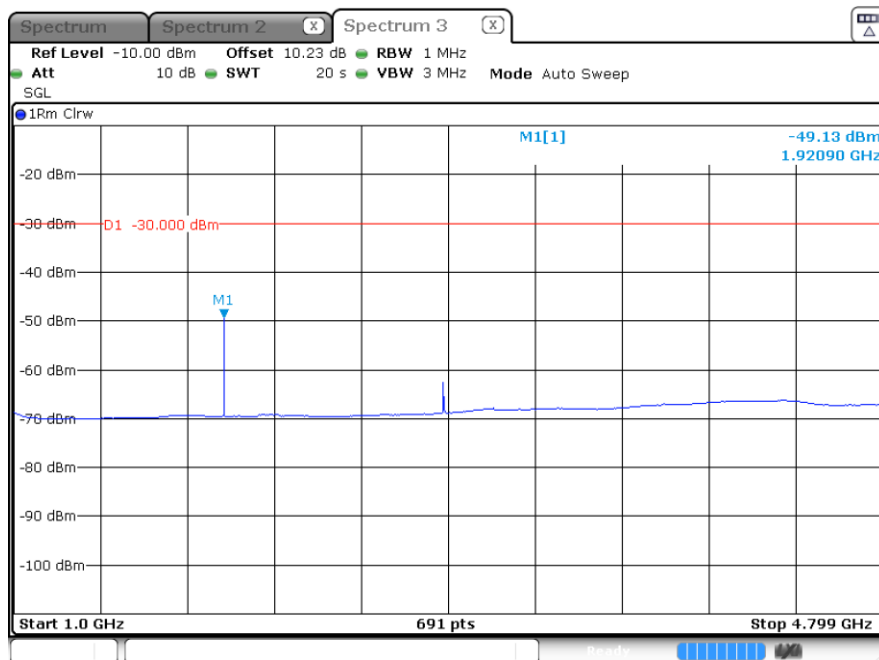
D2 mode: 956.550 MHz, Above 1 GHz



D2 mode: 959.750 MHz, 30-1000 MHz

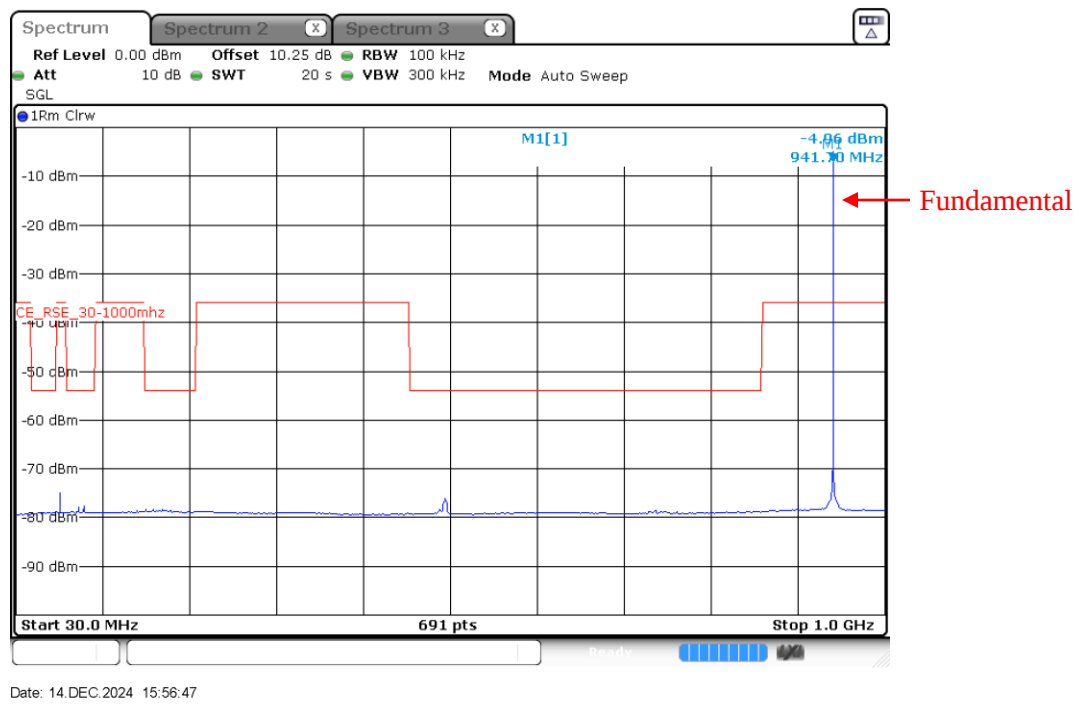
Fundamental

Date: 14 DEC 2024 16:45:36

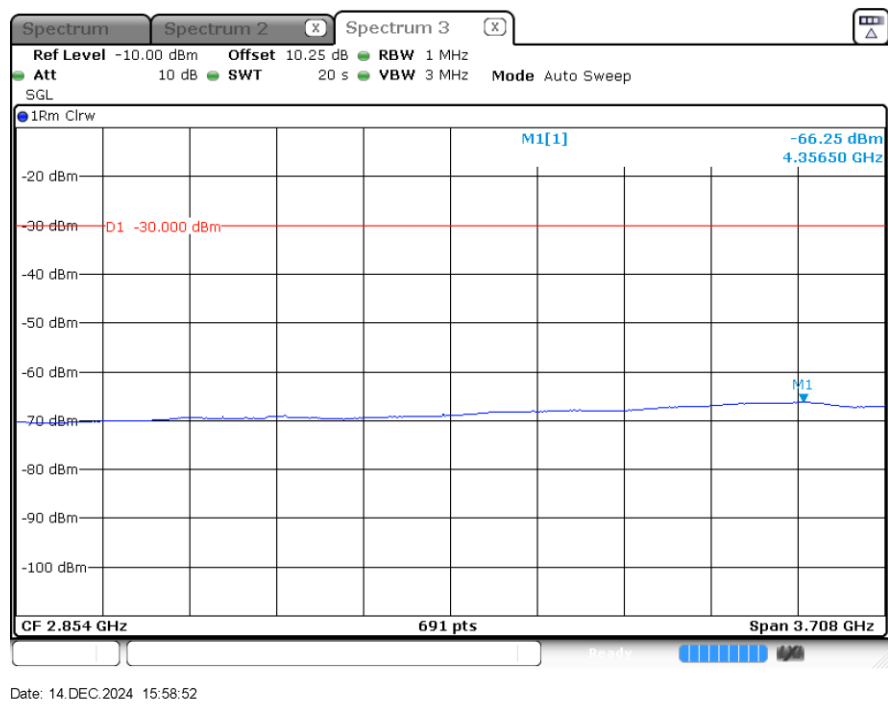
D2 mode: 959.750 MHz, Above 1 GHz

Date: 14 DEC 2024 16:46:21

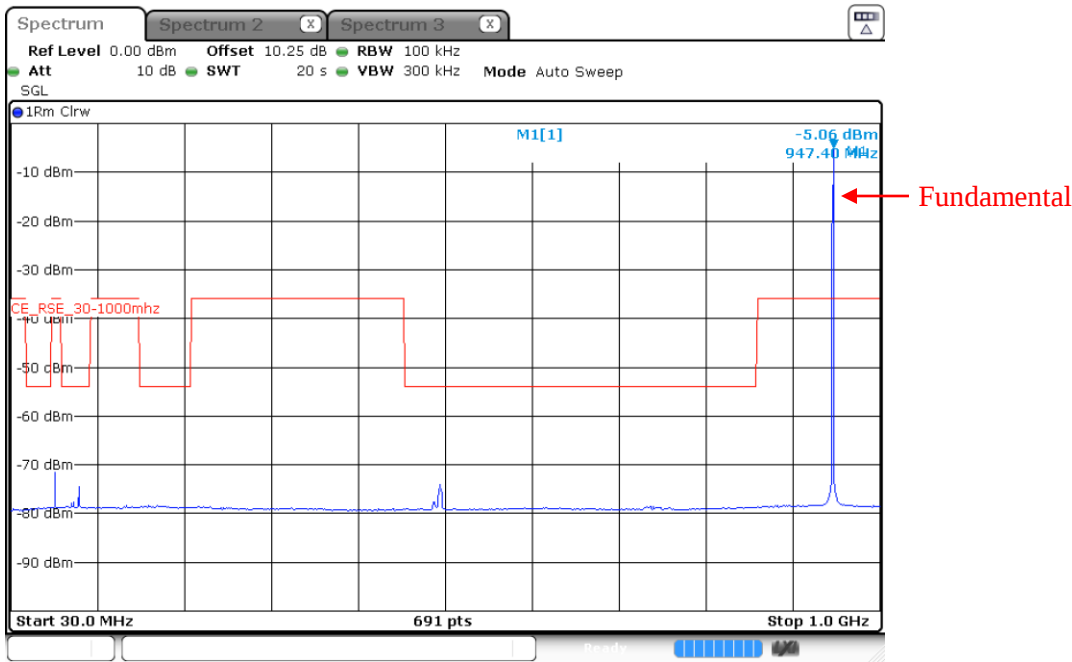
HDM mode: 941.600 MHz, 30-1000 MHz



HDM mode: 941.600 MHz, Above 1 GHz

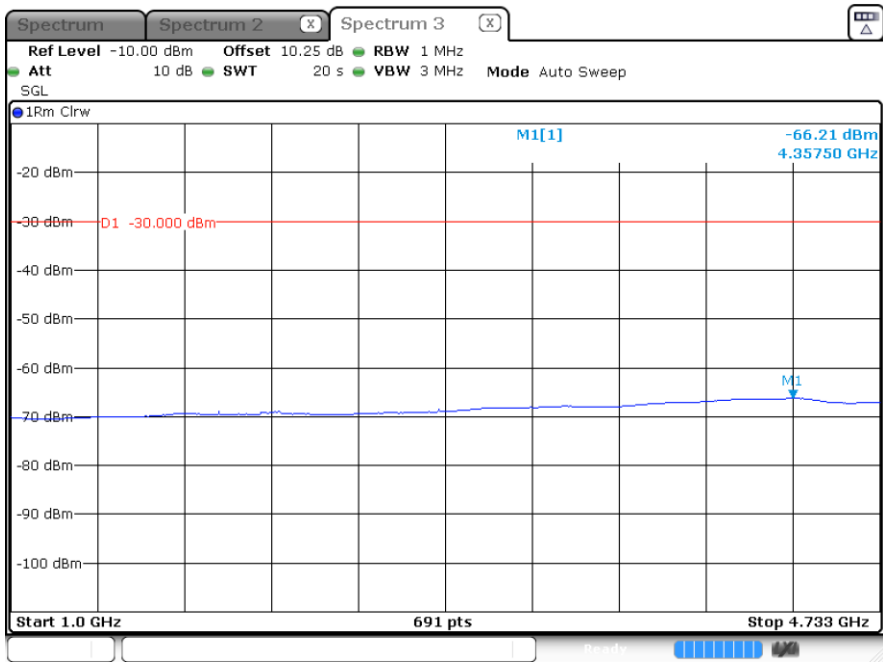


HDM mode: 946.750 MHz, 30-1000 MHz



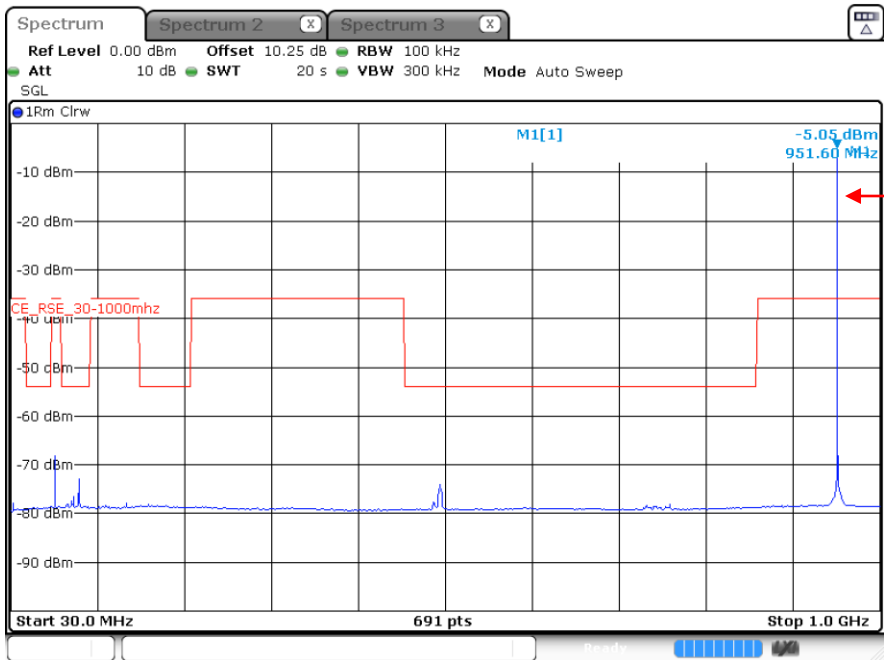
Date: 14 DEC 2024 16:03:21

HDM mode: 946.750 MHz, Above 1 GHz



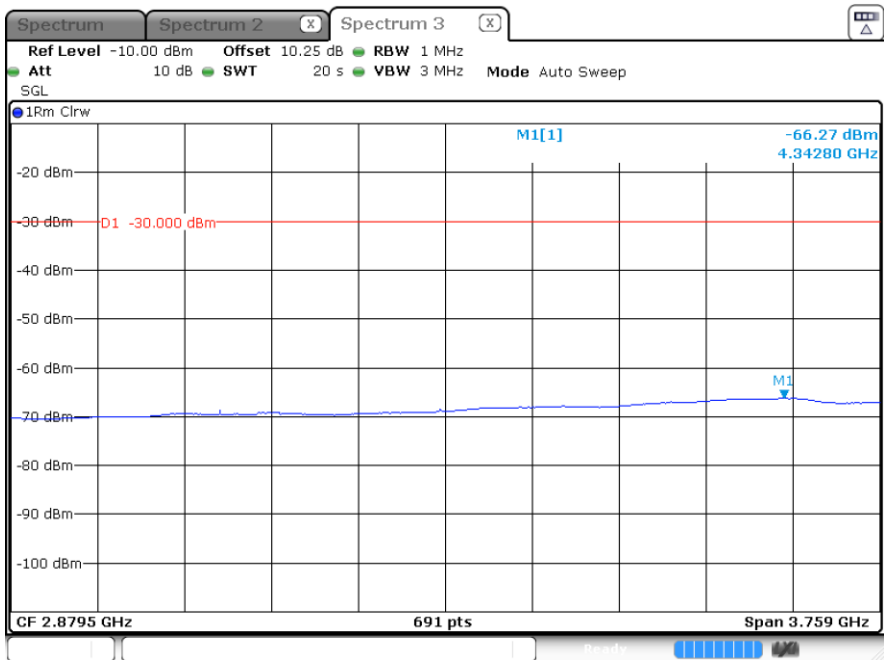
Date: 14 DEC 2024 16:02:15

HDM mode: 951.900 MHz, 30-1000 MHz



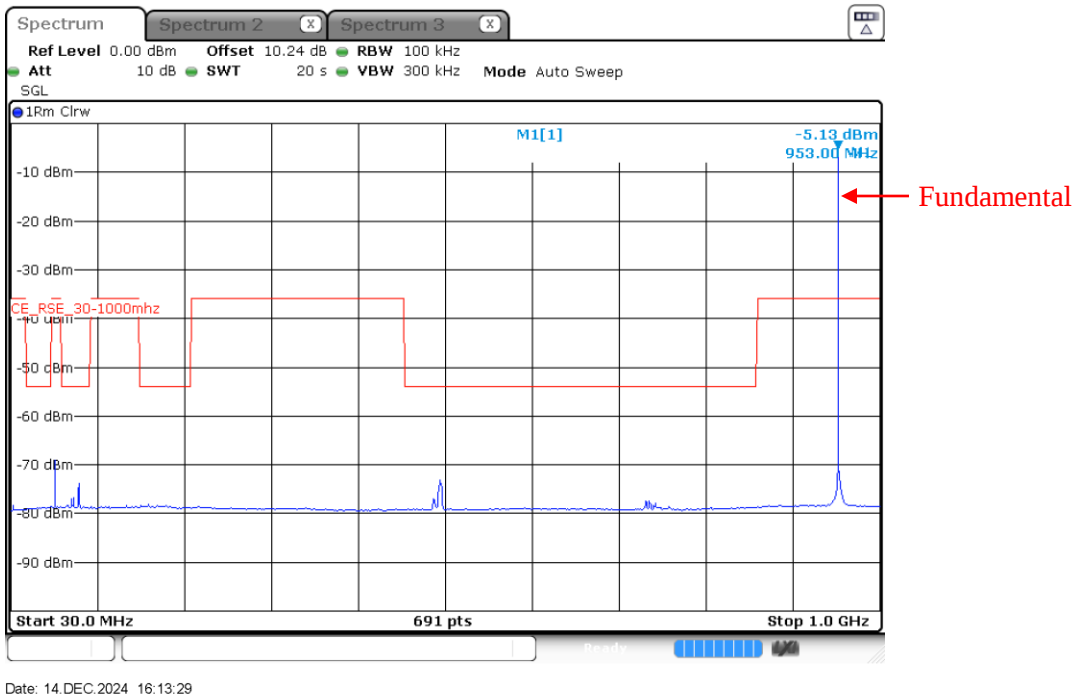
Date: 14 DEC 2024 16:06:23

HDM mode: 951.900 MHz, Above 1 GHz

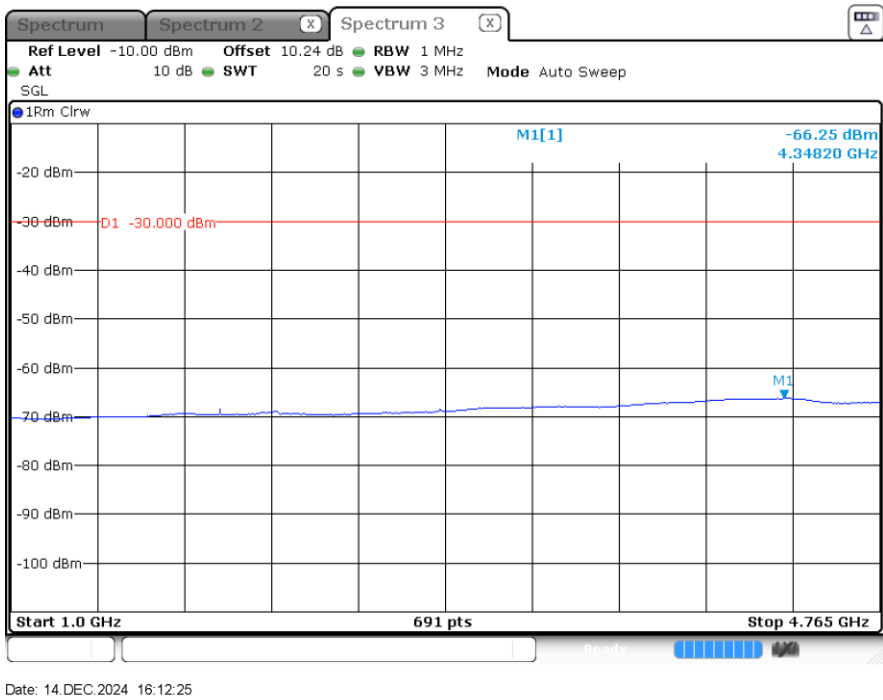


Date: 14 DEC 2024 16:20:45

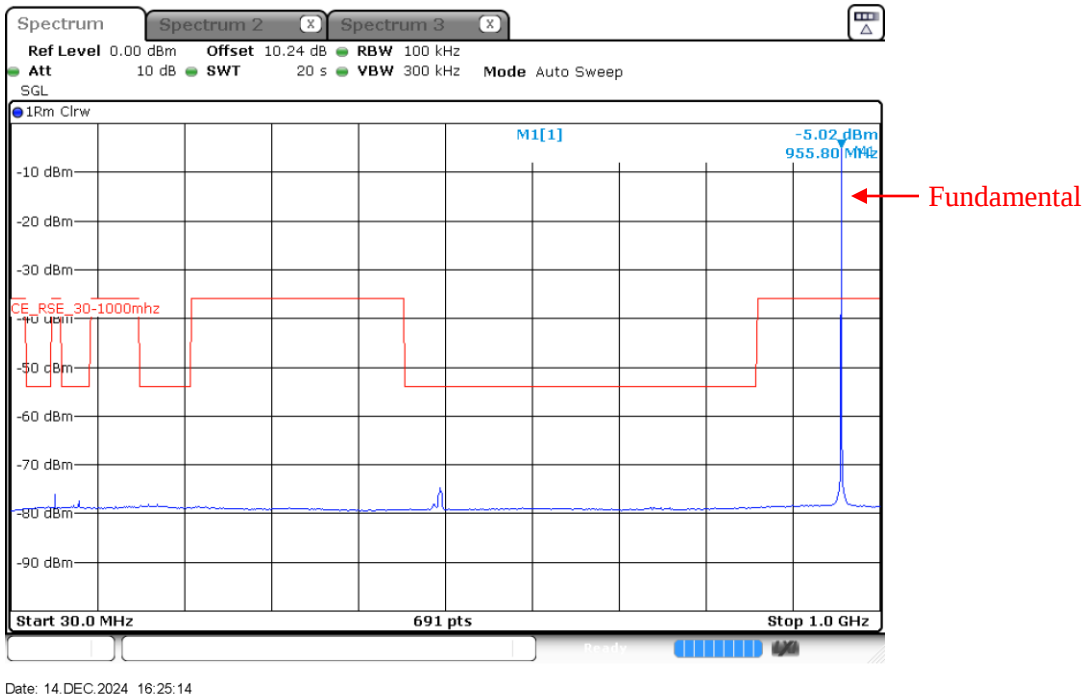
HDM mode: 953.100 MHz, 30-1000 MHz



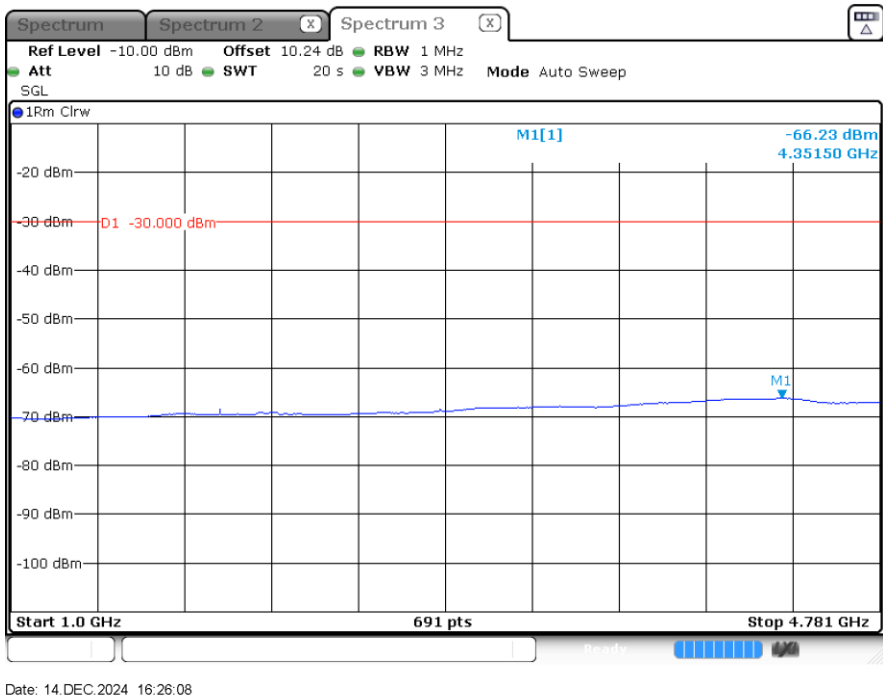
HDM mode: 953.100 MHz, Above 1 GHz



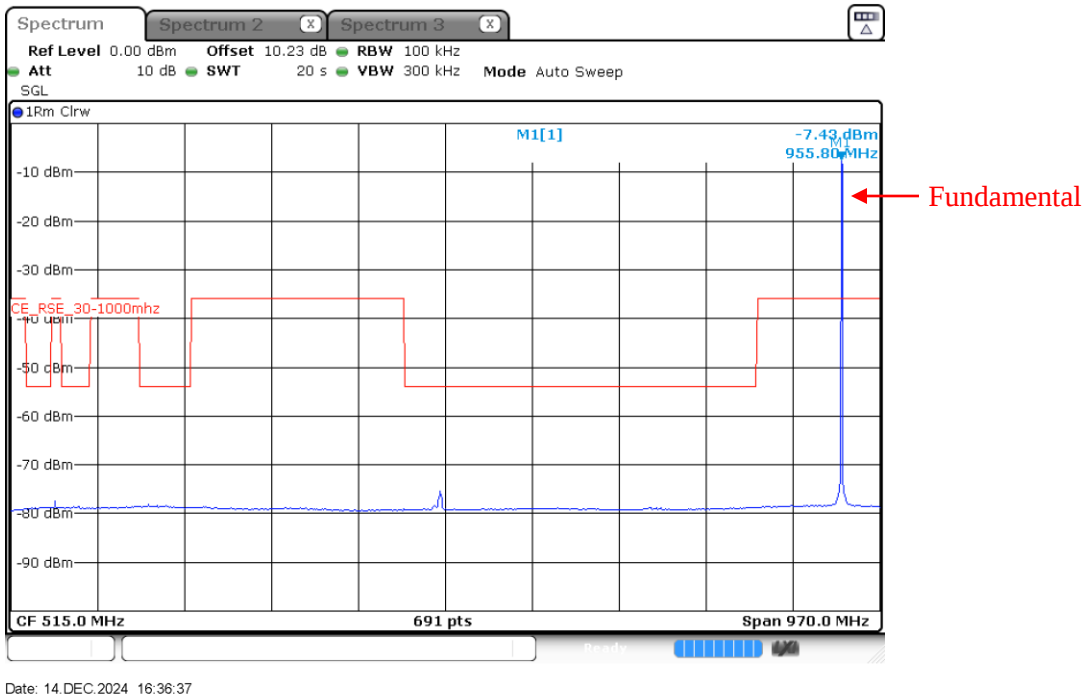
HDM mode: 956.150 MHz, 30-1000 MHz



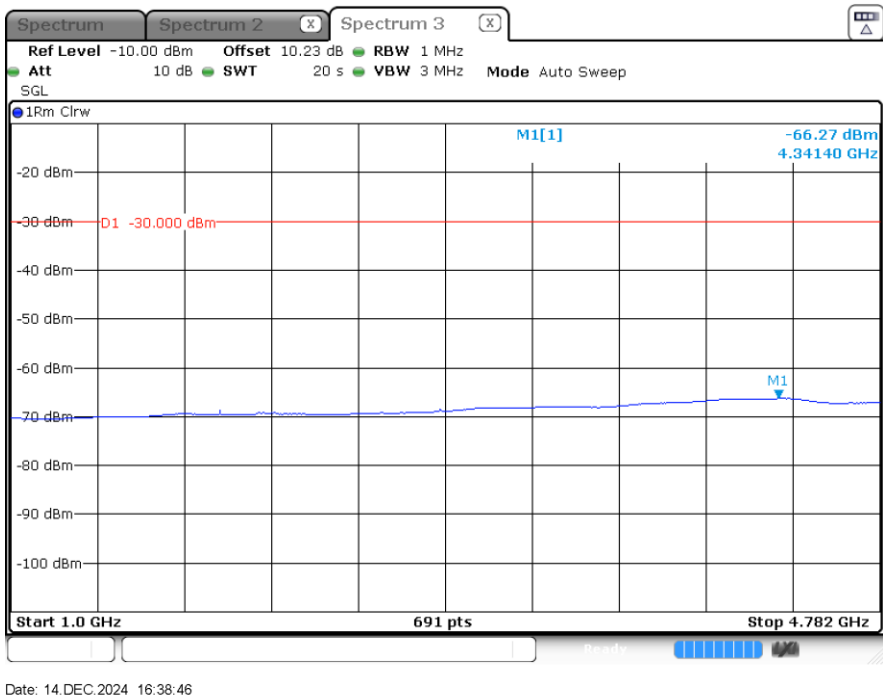
HDM mode: 956.150 MHz, Above 1 GHz



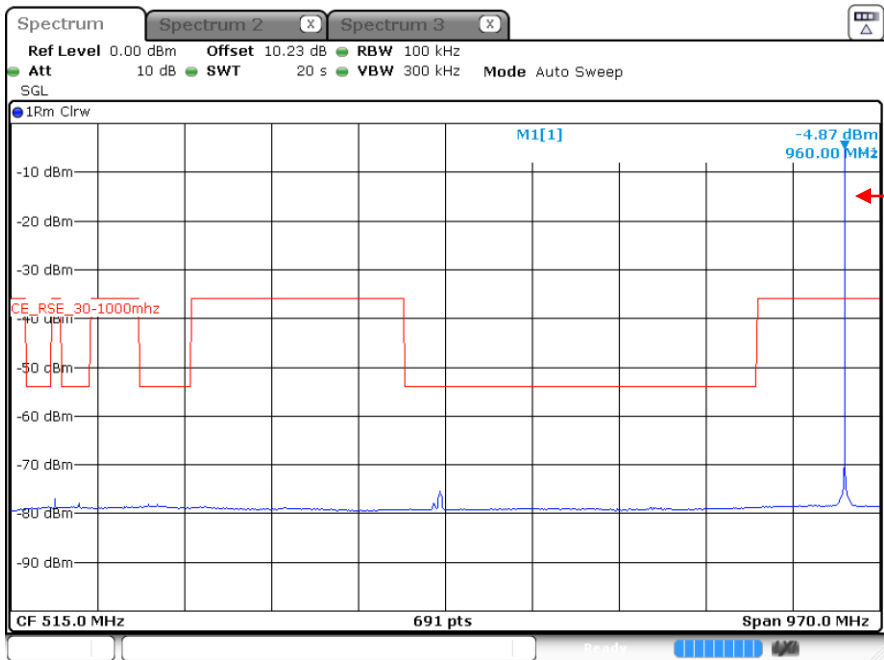
HDM mode: 956.550 MHz, 30-1000 MHz



HDM mode: 956.550 MHz, Above 1 GHz

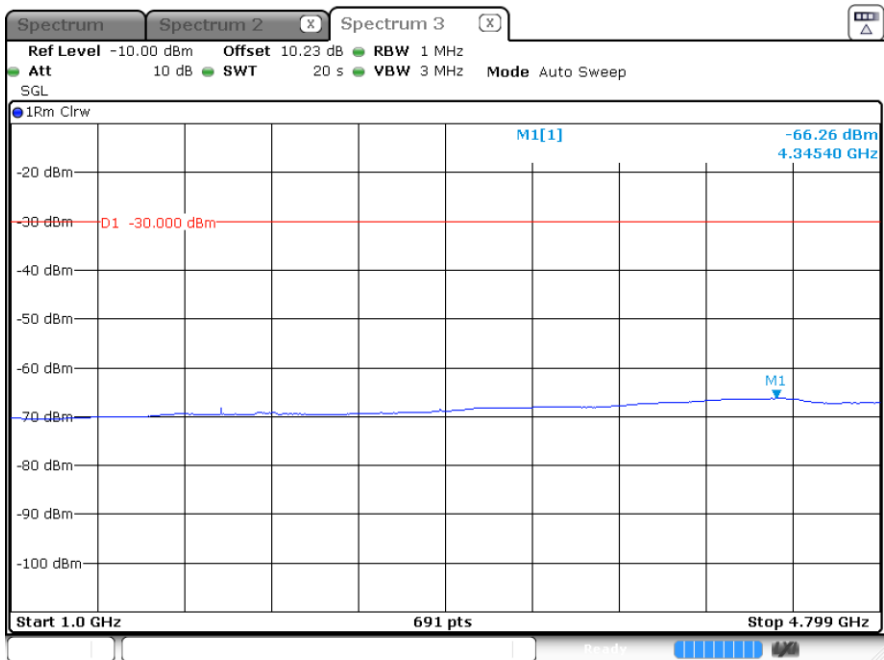


HDM mode: 959.750 MHz, 30-1000 MHz



Date: 14 DEC 2024 16:42:42

HDM mode: 959.750 MHz, Above 1 GHz



Date: 14 DEC 2024 16:41:20

7. FCC §74.861(d)(4)(iv), RSS-123 Section 5.3 & ETSI EN 300 422-1 (4.2.4.1.2) – Field Strength of Spurious Radiation

7.1 Applicable Standards

According to FCC §74.861 (d)(4)(iv):

Emissions outside of the emission masks specified in paragraphs (d)(4)(i) through (iii) of this section shall comply with the limits specified in section 4.2.4.1.2 of ETSI EN 300 422-1 V2.2.1 (2021-11) (incorporated by reference, see § 74.35).

According to RSS-123 Section 5.3 (f):

For all wireless microphones, the emissions outside of the emission masks specified in 5.3(c), 5.3(d) and 5.3(e) shall comply with the limits specified in section 4.2.4.1.2 of ETSI EN 300 422-1..

According to ETSI EN 300 422-1 V2.2.1 (2021-11) Section 4.2.4.1.2:

The level of transmitter unwanted emissions in the spurious domain shall not exceed the limits given in table 4.

**Table 4: Transmitter unwanted emission limits
(from ERC Recommendation 74-01 [2])**

Frequency range	Maximum power	RBW
9 kHz - 150 kHz	-36 dBm	1 kHz
150 kHz - 30 MHz	-36 dBm	10 kHz
30 MHz - 1 GHz	-36 dBm	$F_c + 2,5 B \leq f \leq f_c + 4 B$: 1 kHz $F_c + 4 B < f \leq f_c + 10 B$: 10 kHz $f > f_c + 10 B$: 100 kHz $f < f_c - 10 B$: 100 kHz $f_c - 10 B \leq f < f_c - 4 B$: 10 kHz $f_c - 4 B \leq f \leq f_c - 2,5 B$: 1 kHz
except:		
47 MHz - 74 MHz 87,5 MHz - 118 MHz	-54 dBm	100 kHz
174 MHz - 230 MHz 470 MHz - 862 MHz	-54 dBm	$F_c + 2,5 B \leq f \leq f_c + 4 B$: 1 kHz $F_c + 4 B < f \leq f_c + 10 B$: 10 kHz $f > f_c + 10 B$: 100 kHz $f < f_c - 10 B$: 100 kHz $f_c - 10 B \leq f < f_c - 4 B$: 10 kHz $f_c - 4 B \leq f \leq f_c - 2,5 B$: 1 kHz
$1 \text{ GHz} < f \leq F_{\text{upper}}$	-30 dBm	$F_c + 2,5 B \leq f \leq f_c + 10 B$: 30 kHz $F_c + 10 B < f \leq f_c + 12 B$: 300 kHz $f > f_c + 12 B$: 1 MHz $f < f_c - 12 B$: 1 MHz $f_c - 12 B \leq f < f_c - 10 B$: 300 kHz $f_c - 10 B \leq f \leq f_c - 2,5 B$: 30 kHz

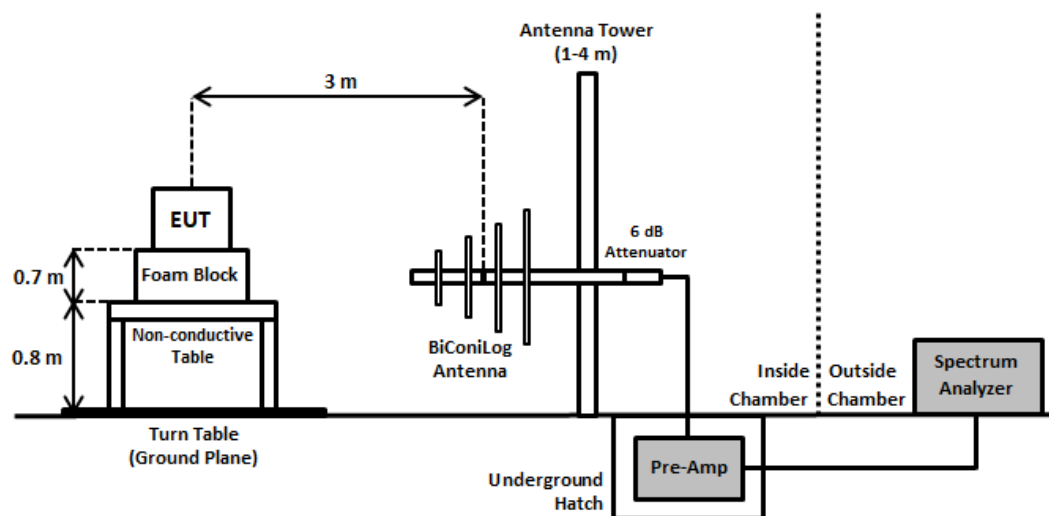
with B being the Declared Channel Bandwidth.

7.2 Test Procedure

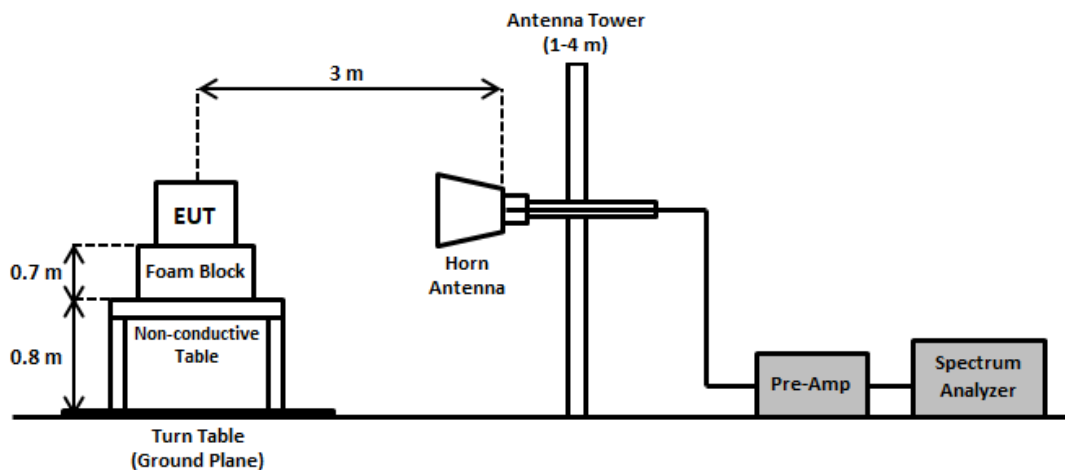
Please refer to KDB 971168 D01 v03r01 Section 7 and ETSI EN 300 422-1 V2.2.1 (2021-11) Section 5.4.4.

7.3 Test Setup Diagram

Below 1 GHz



Above 1 GHz



7.4 Test Equipment List and Details

BACL No.	Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Interval
1432	Keysight Technologies	MXE EMI Receiver, Multi-touch	N9038B	MY60180008	2024-01-15	1 year
316	Sonoma Instruments	Preamplifier 10 kHz - 2.5 GHz	317	260406	2024-08-30	6 months
321	Sunol Sciences	Biconilog Antenna	JB3	A020106-2; 1504	2023-12-18	2 years
1245	-	Attenuator	PE7390-6	01182018A	2023-12-18	2 years
1248	Pasternack	RG214 COAX Cable	PE3062	NA	2024-10-01	6 months
1249	Time Microwave	LMR-400 Cable Dc-3 GHz	AE13684	2k80612-5 6fts	2024-04-09	1 year
1359	Pasternack	N 600in RF Cable	PE3496LF-600	NA	2024-07-26	6 months
1246	HEWLET PACKARD	RF Limiter	11867A	01734	2024-04-09	1 year
568	Com-Power	Dipole Antenna	AD-100	721033DB1, 721033DB2, 721033DB3, 721032DB4	2023-07-11	2 years
1192	ETS Lindgren	Horn Antenna	3117	00218973	2024-10-23	2 years
1449	BACL	Preamplifier	BACL1313-A100M18G	4052472	2024-08-19	6 months
1295	Carlisle Interconnected Technologies	10m Coaxial Cable	UFB142A-1-3937-200200	64639890912-001	2024-10-16	6 months
1397	Mini Circuit	CBL ASSY 2.92MM PLUG TO PLUG 12"	FL086-12KM+	QN2318110-2318	2024-08-16	6 months
473	EMCO	Horn Antenna	3115	9511-4627	2024-11-26	2 years
1130	Aglient	MXG Analog Signal Generator	N5183A	MY50140453	2024-11-07	1 year

Statement of Traceability: **BACL Corp.** attests that all of the calibrations on the equipment items listed above were traceable to NIST or to another internationally recognized National Metrology Institute (NMI), and were compliant with the latest version of A2LA policy P102 "A2LA Policy on Metrological Traceability".

7.5 Test Environmental Conditions

Temperature:	22°C
Relative Humidity:	40%
ATM Pressure:	101.0 kPa

The testing was performed by Arturo Reyes on 2024-12-18 in 5m Chamber 3.

7.6 Test Results

Note: The data below are based on worst case mode (D2) when transmitting at maximum output power.

Freq. (MHz)	S.A. Amp. (dB□V)	Table Azimuth (Degrees)	Test Antenna		Substitution				Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Height (cm)	Polar (H/V)	Freq. (MHz)	S.G. Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
941.600 MHz											
51.907	38.531	360	150	H	51.907	-80.199	0.7	0.83	-80.329	-54	-26.329
50.192	36.009	360	150	V	50.192	-81.331	1.2	0.83	-80.961	-54	-26.961
1073.187	42.89	360	150	H	1073.187	-70.86	5.78	1.35	-66.43	-30	-36.43
1029.318	42.74	360	150	V	1029.318	-71.03	5.78	1.35	-66.6	-30	-36.6
946.750 MHz											
51.653	36.479	360	150	H	51.653	-82.251	0.7	0.83	-82.381	-54	-28.381
50.444	36.964	360	150	V	50.444	-80.376	1.2	0.83	-80.006	-54	-26.006
1089.236	42.5	360	150	H	1089.236	-71.25	5.78	1.35	-66.82	-30	-36.82
1053.360	42.45	360	150	V	1053.360	-71.32	5.78	1.35	-66.89	-30	-36.89
951.900 MHz											
51.285	35.513	360	150	H	51.285	-83.217	0.7	0.83	-83.347	-54	-29.347
50.383	35.536	360	150	V	50.383	-81.804	1.2	0.83	-81.434	-54	-27.434
1091.236	42.32	360	150	H	1091.236	-71.43	5.78	1.35	-67	-30	-37
1052.005	42.98	360	150	V	1052.005	-70.79	5.78	1.35	-66.36	-30	-36.36
953.100 MHz											
50.579	37.187	360	150	H	50.579	-81.543	0.7	0.83	-81.673	-54	-27.673
50.832	36.867	360	150	V	50.832	-80.473	1.2	0.83	-80.103	-54	-26.103
1089.751	43.07	360	150	H	1089.751	-70.68	5.78	1.35	-66.25	-30	-36.25
1055.467	42.69	360	150	V	1055.467	-71.08	5.78	1.35	-66.65	-30	-36.65
956.150 MHz											
50.513	35.089	360	150	H	50.513	-83.641	0.7	0.83	-83.771	-54	-29.771
51.455	35.322	360	150	V	51.455	-82.018	1.2	0.83	-81.648	-54	-27.648
1091.124	42.99	360	150	H	1091.124	-70.76	5.78	1.35	-66.33	-30	-36.33
1055.732	43.22	360	150	V	1055.732	-70.55	5.78	1.35	-66.12	-30	-36.12
956.550 MHz											
51.301	35.153	360	150	H	51.301	-83.577	0.7	0.83	-83.707	-54	-29.707
51.124	36.608	360	150	V	51.124	-80.732	1.2	0.83	-80.362	-54	-26.362
1088.096	43.25	360	150	H	1088.096	-70.5	5.78	1.35	-66.07	-30	-36.07
1054.002	42.43	360	150	V	1054.002	-71.34	5.78	1.35	-66.91	-30	-36.91

959.750 MHz											
51.763	37.588	360	150	H	51.763	-81.142	0.7	0.83	-81.272	-54	-27.272
51.14	36.263	360	150	V	51.14	-81.077	1.2	0.83	-80.707	-54	-26.707
1086.604	42.86	360	150	H	1086.604	-70.89	5.78	1.35	-66.46	-30	-36.46
1054.467	42.82	360	150	V	1054.467	-70.95	5.78	1.35	-66.52	-30	-36.52