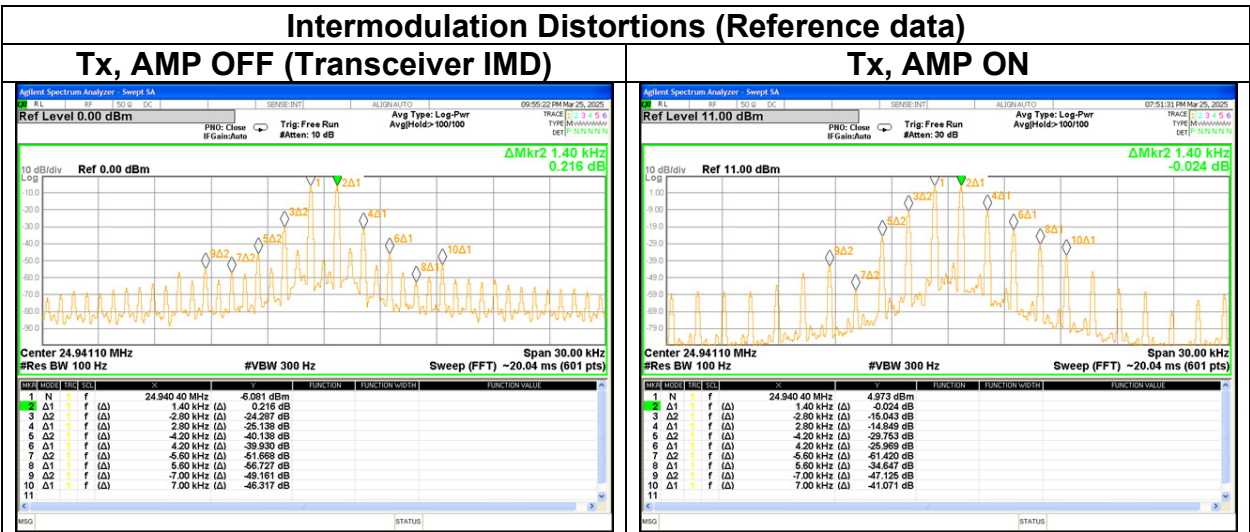
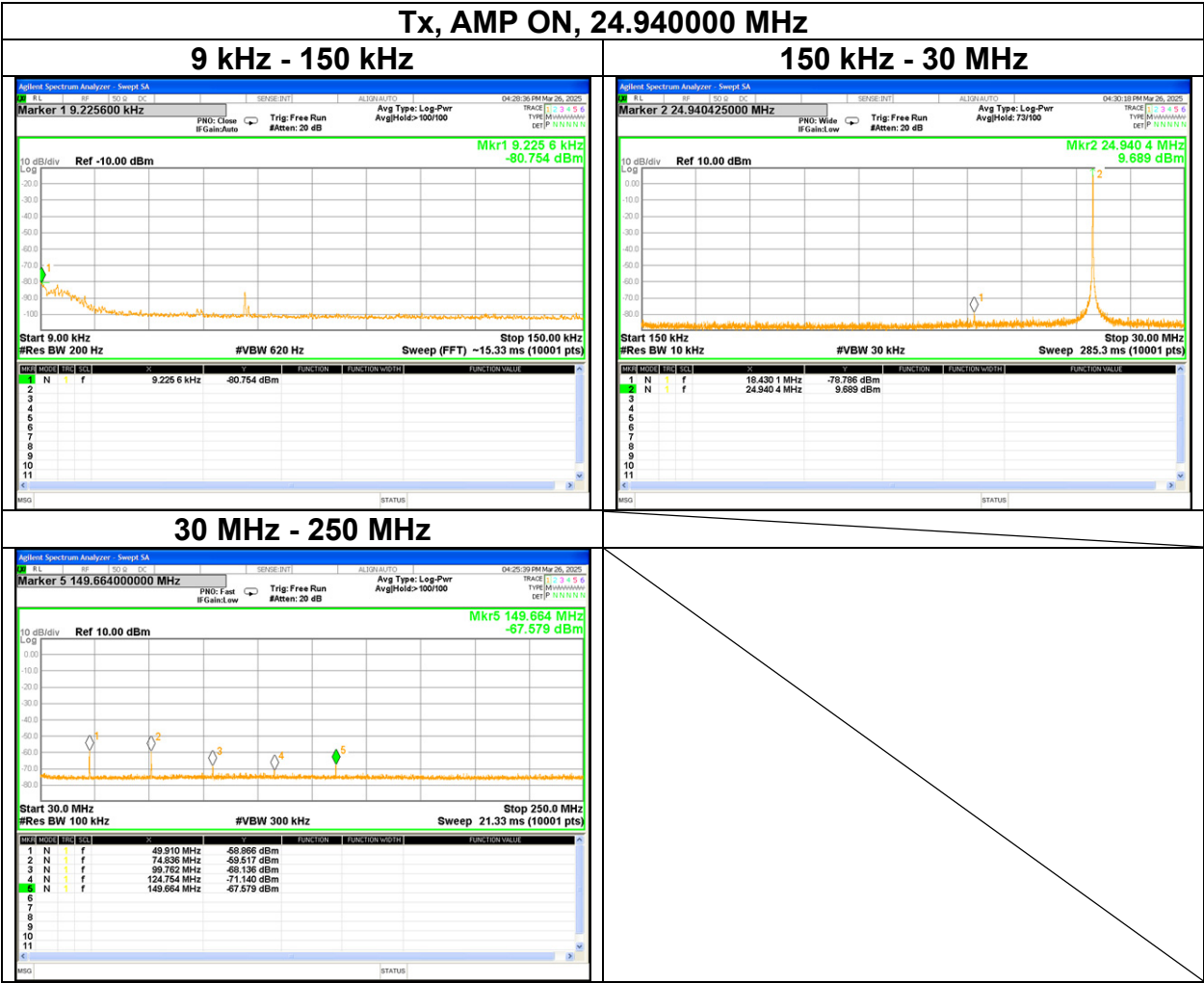
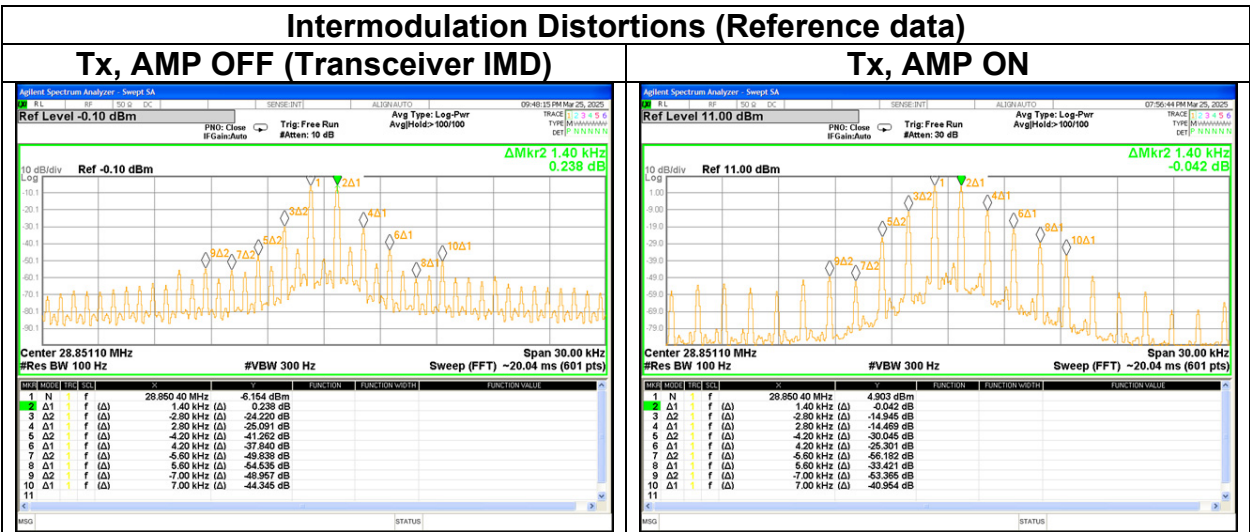
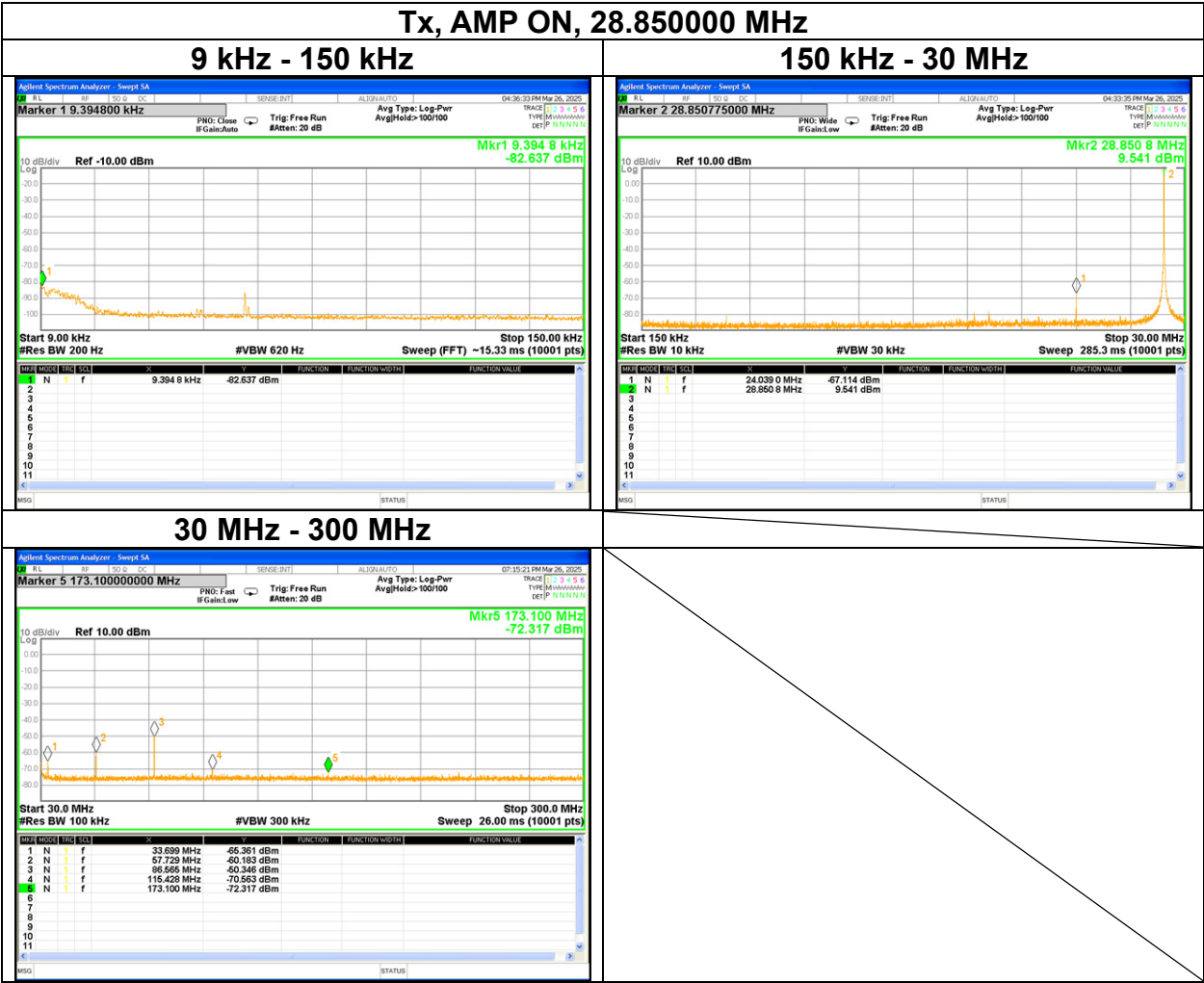


Spurious Emission



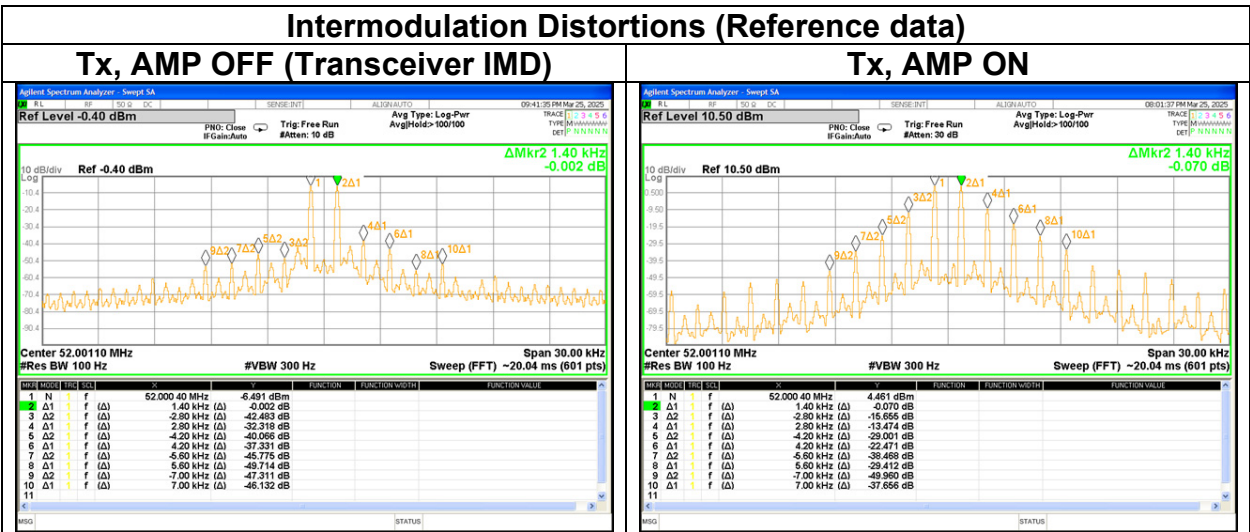
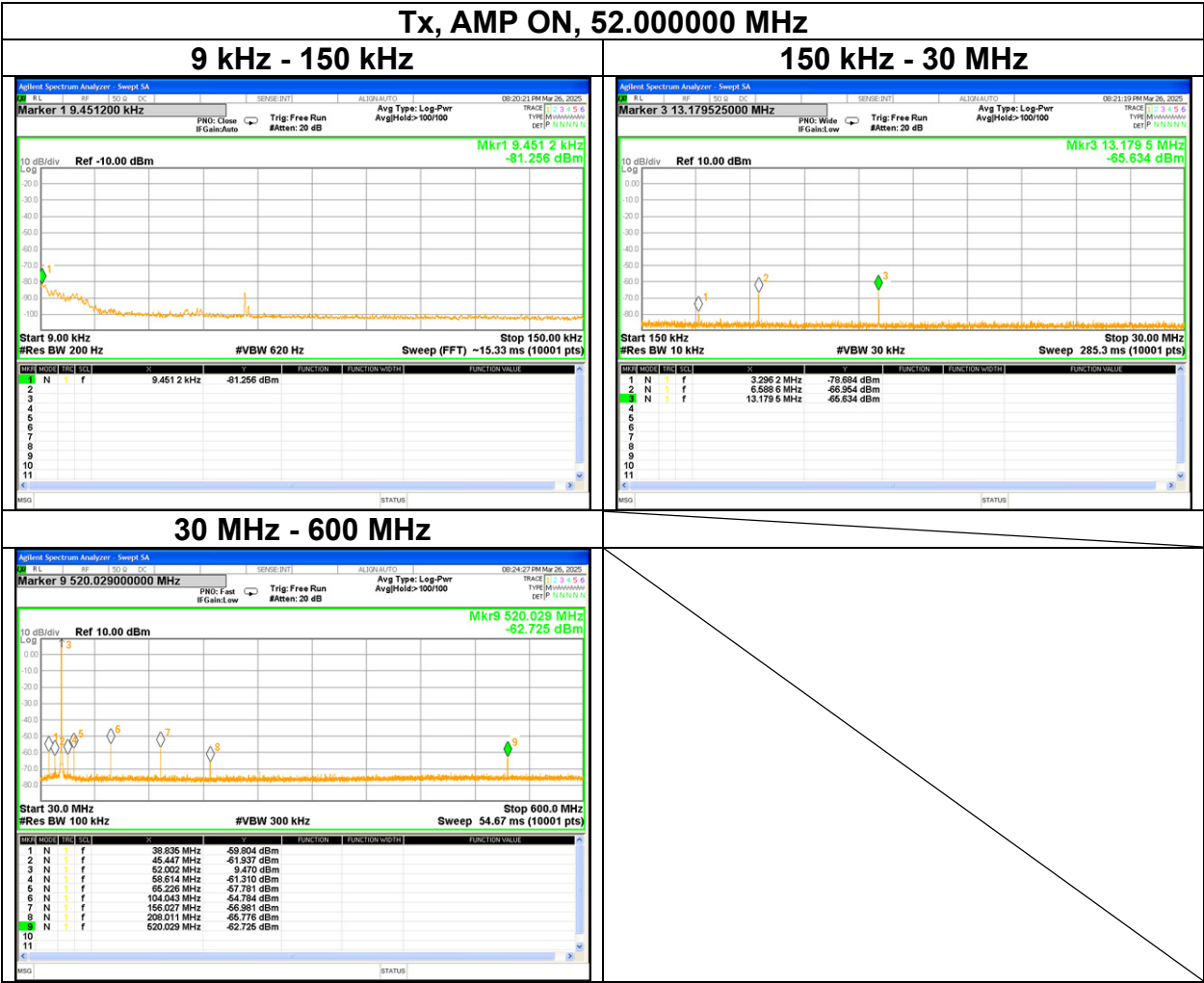
The analyzer reference level was set to the 6 dB above the peak marker.

Spurious Emission



The analyzer reference level was set to the 6 dB above the peak marker.

Spurious Emission



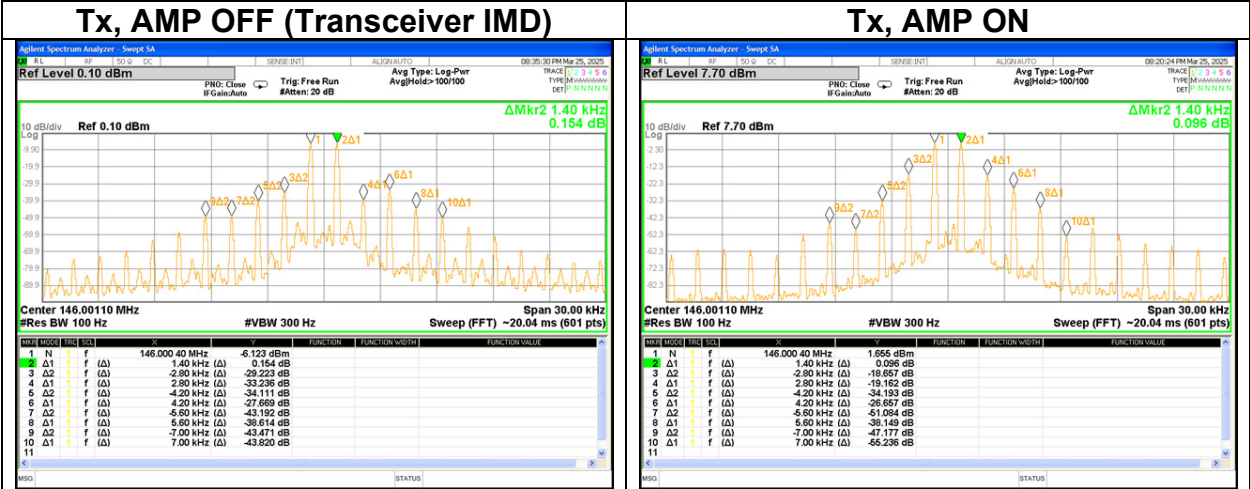
The analyzer reference level was set to the 6 dB above the peak marker.

Spurious Emission

Tx, AMP ON, 146.000000 MHz



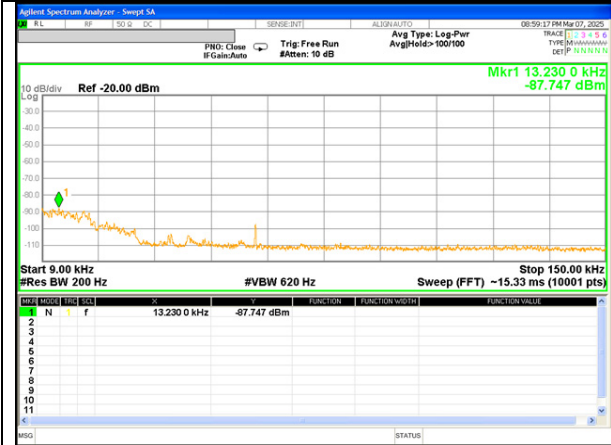
Intermodulation Distortions (Reference data)



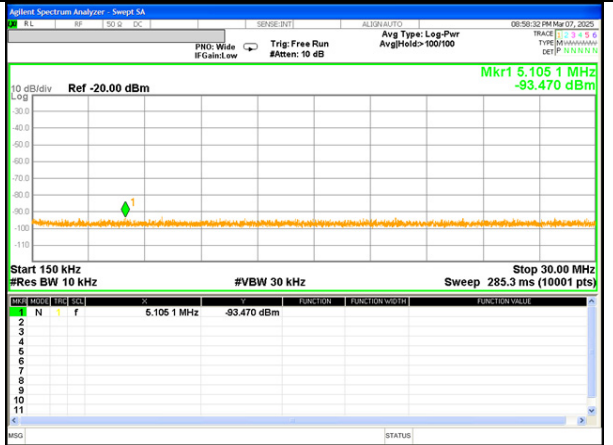
The analyzer reference level was set to the 6 dB above the peak marker.

Spurious Emission

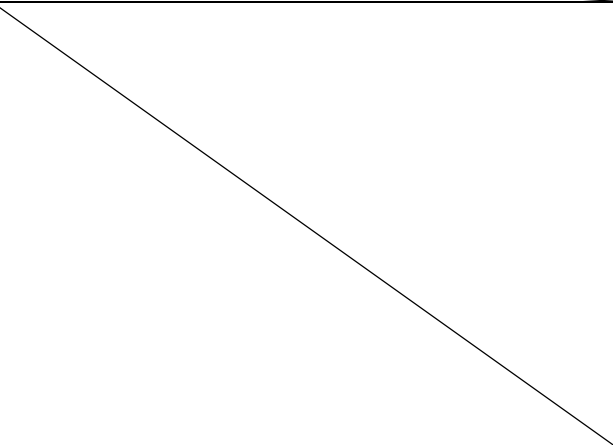
Standby
(Antenna Port 1 for 1.800000 MHz to 53.999999 MHz Band)
9 kHz - 150 kHz



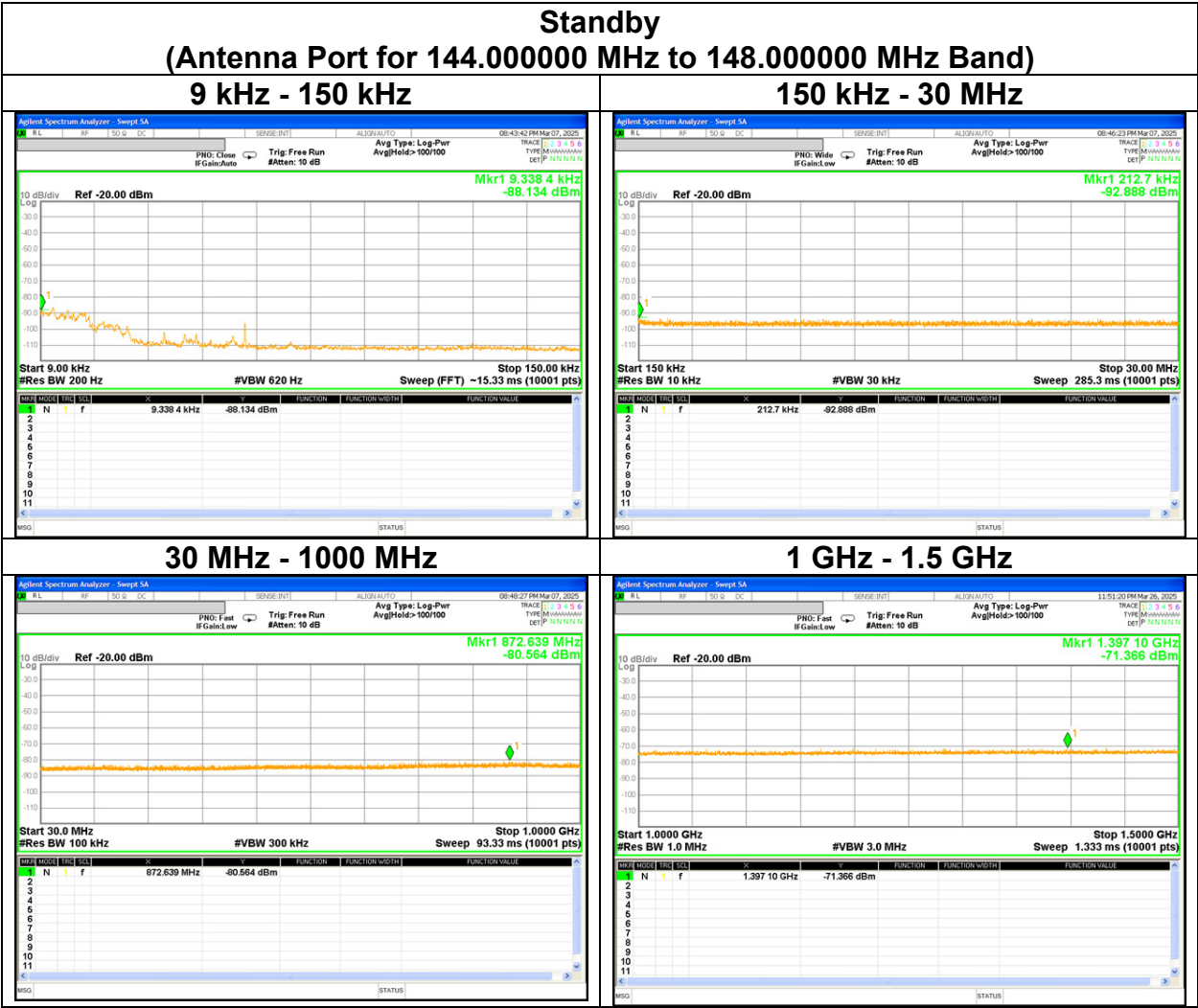
150 kHz - 30 MHz



30 MHz - 600 MHz



Spurious Emission



RF Power Gain

Test place: Ise EMC Lab. No.6 Measurement Room
Date: March 5, 2025 March 24, 2025 April 7, 2025
Temperature / Humidity: 23 deg. C / 42 % RH 20 deg. C / 40 % RH 23 deg. C / 40 % RH
Engineer: Junya Okuno Junya Okuno Takafumi Noguchi
Mode: Tx, AMP ON/OFF

Operation Band

Tested Freq. [MHz]	Power Meter Reading		Loss (AMP OFF)		Loss (AMP ON)		Output Power (AMP OFF)		Output Power (AMP ON)		Result [dB]	Gain Limit [dB]	Margin [dB]	Specific power level [W]
	(AMP OFF) [dBm]	(AMP ON) [dBm]	Cable [dB]	Atten. [dB]	Cable [dB]	Atten. [dB]	[dBm]	[W]	[dBm]	[W]				
1.900000	-12.52	9.79	0.00	50.02	0.00	40.30	37.50	5.6	50.09	102.1	12.59	15	2.41	100
3.750000	-12.70	9.77	0.01	50.06	0.01	40.31	37.37	5.5	50.09	102.1	12.72	15	2.28	100
5.167500	-12.02	9.73	0.03	50.08	0.03	40.31	38.09	6.4	50.07	101.6	11.98	15	3.02	100
5.358500	-12.77	9.68	0.01	50.08	0.01	40.31	37.32	5.4	50.00	100.0	12.68	15	2.32	100
7.150000	-12.72	9.77	0.01	50.10	0.01	40.31	37.39	5.5	50.09	102.1	12.70	15	2.30	100
10.125000	-12.80	9.70	0.02	50.11	0.02	40.31	37.33	5.4	50.03	100.7	12.70	15	2.30	100
14.175000	-12.54	9.73	0.03	50.13	0.03	40.31	37.62	5.8	50.07	101.6	12.45	15	2.55	100
18.118000	-11.46	9.71	0.03	50.14	0.03	40.31	38.71	7.4	50.05	101.2	11.34	15	3.66	100
21.225000	-12.56	9.66	0.03	50.15	0.03	40.31	37.62	5.8	50.00	100.0	12.38	15	2.62	100
24.940000	-13.06	9.76	0.03	50.14	0.03	40.31	37.11	5.1	50.10	102.3	12.99	15	2.01	100
28.850000	-13.16	9.67	0.03	50.13	0.03	40.31	37.00	5.0	50.01	100.2	13.01	15	1.99	100
52.000000	-11.77	9.69	0.04	50.10	0.04	40.30	38.37	6.9	50.03	100.7	11.66	15	3.34	100
146.000000	-16.43	6.68	0.08	49.83	0.08	40.24	33.48	2.2	47.00	50.1	13.52	15	1.48	50

Sample calculation: Output Power (AMP OFF) = Power Meter Reading (AMP OFF) + Loss (Cable + Atten.) (AMP OFF)
Output Power (AMP ON) = Power Meter Reading (AMP ON) + Loss (Cable + Atten.) (AMP ON)
Gain Result = Output Power (AMP ON) - Output Power (AMP OFF)

Limit: Section 97.317 (a) (2)

Prohibited Band

Tested Freq. [MHz]	Result	Remarks
26.000000	Pass	*1)
27.000000	Pass	*1)
27.999999	Pass	*1)

*1) The information provided by the customer is as follows;

The AMP does not work by itself and its ON/OFF is controlled by the transceiver (Model: FTX-1). The AMP function is OFF in the frequency range 26.000000 MHz - 27.999999 MHz, because the transceiver does not work in this frequency range.

*2) Band 1.800000 MHz - 53.999999 MHz;

After the comparison between Antenna Port 1 and Port 2, test was performed with the antenna Port 1 that had the higher emission level as a representative.

APPENDIX 2: Test Instruments

Test Equipment

Test Item	LIMS ID	Description	Manufacturer	Model	Serial	Last Calibration Date	Cal Int
AT	141221	Coaxial Cable	Suhner	NRG180	-	09/10/2024	12
AT	141500	Function Generator	Keysight Technologies Inc	33612A	MY53400159	01/27/2025	12
AT	141524	Dual Directional Coupler	Amplifier Research	DC2000	13462	04/03/2025	12
AT	141528	Insertion unit	Rohde & Schwarz	URV5-Z4	100025	11/07/2024	12
AT	141546	Digital HiTESTER	HIOKI E. E. CORPORATION	3805	060100600	05/17/2024	12
AT	141558	Digital Tester(TRUE RMS MULTIMETER)	Fluke Corporation	115	17930030	05/17/2024	12
AT	141563	Thermo-Hygrometer	CUSTOM. Inc	CTH-180	1005	01/19/2025	12
AT	141802	Power Meter	Rohde & Schwarz	NRVD	101239	11/07/2024	12
AT	141807	Dual Power Meter	Hewlett Packard	E4419A (=EPM-442A)	GB37170359	08/02/2024	12
AT	141828	Power sensor	Keysight Technologies Inc	E9301A	MY41498311	08/21/2024	12
AT	141902	Spectrum Analyzer	Keysight Technologies Inc	E4440A	MY46187105	05/30/2024	12
AT	141904	Spectrum Analyzer	Keysight Technologies Inc	N9030A	US51350215	11/18/2024	12
AT	141918	Terminator	MCL	NTRM-50	932211	12/03/2024	12
AT	141933	Terminator	TME	CT-01BP	-	12/23/2024	12
AT	141934	Terminator	TME	CT-01BP	-	04/01/2024	12
AT	158263	Attenuator	Weinschel	82-40-33	DT991	08/21/2024	12
AT	159670	Coaxial Cable	UL-ISE	-	-	11/11/2024	12
AT	199034	Terminator	TAMAGAWA ELECTRONICS CO.,LTD.	CT01NP-101	001	07/01/2024	12
AT	244712	Thermo-Hygrometer	HIOKI E. E. CORPORATION	LR5001	231202106	01/19/2025	12
AT	248911	Microwave Cable	Huber+Suhner	SF126E/11PC35/11PC35/1000MM	537060/126E	05/29/2024	12
AT	259288	Coaxial Cable	UL-ISE	-	-	03/03/2025	12

*Hyphens for Last Calibration Date and Cal Int (month) are instruments that Calibration is not required (e.g. software), or instruments checked in advance before use.

The expiration date of the calibration is the end of the expired month.

As for some calibrations performed after the tested dates, those test equipment have been controlled by means of an unbroken chains of calibrations.

All equipment is calibrated with valid calibrations. Each measurement data is traceable to the national or international standards.

Test item:

AT: Antenna Terminal Conducted test