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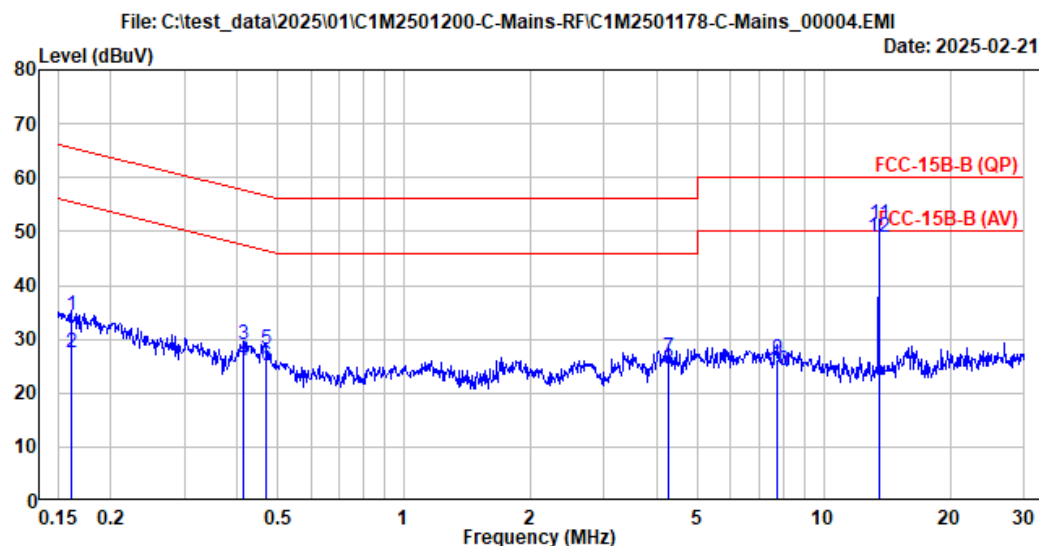
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AUDIX Technology Corp.
No. 53-11, Dingfu, Linkou, Dist.,
New Taipei City244, Taiwan

Tel: +886 2 26099301
Fax: +886 2 26099303

A.1 CONDUCTED EMISSION

Test Date	2025/02/21	Temp./Hum.	21°C/58%
Test Voltage	AC 120V 60Hz (Via AC Adapter)	Tested By	Nick Du



Site No. : No.8 Shielded Room Data No. : 4
Instrument 1 : Receiver ESR(774)
Instrument 2 : ENV432 (567)(A)|CE-08|ESH3-Z2 (354)
Limit : FCC-15B-B (QP) Phase : Neutral
Environment : 21°C/58% Test Rating : 120Vac/60Hz
EUT Model : SM-01 Engineer : Nick Du
Test Mode : operating

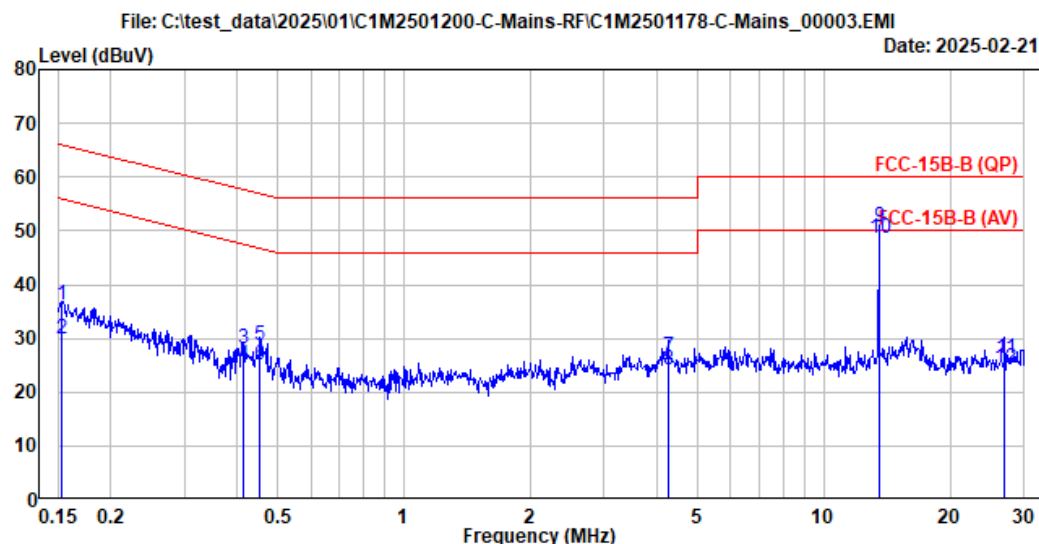
	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Pulse Att. (dB)	Reading (dBμV)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Remark
1	0.161	10.27	0.03	9.85	14.28	34.43	65.42	30.99	QP
2	0.161	10.27	0.03	9.85	7.44	27.59	55.42	27.83	Average
3	0.415	10.26	0.03	9.85	8.99	29.13	57.55	28.42	QP
4	0.415	10.26	0.03	9.85	5.85	25.99	47.55	21.56	Average
5	0.467	10.26	0.03	9.85	8.05	28.19	56.56	28.37	QP
6	0.467	10.26	0.03	9.85	4.82	24.96	46.56	21.60	Average
7	4.273	10.36	0.08	9.86	6.24	26.54	56.00	29.46	QP
8	4.273	10.36	0.08	9.86	4.00	24.30	46.00	21.70	Average
9	7.771	10.50	0.12	9.88	5.89	26.39	60.00	33.61	QP
10	7.771	10.50	0.12	9.88	3.75	24.25	50.00	25.75	Average
11	13.514	10.70	0.16	9.90	30.45	51.21	60.00	8.79	QP
12	13.514	10.70	0.16	9.90	28.07	48.83	50.00	1.17	Average

Remarks: 1. Emission Level(dBuV)= AMN Factor(dB) + Cable Loss(dB) + Pulse Att.(dB) + Reading(dBuV).
2. The frequency point 13.514MHz is NFC frequency point.

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No. 53-11, Dingfu, Linkou, Dist.,
New Taipei City244, Taiwan

Tel: +886 2 26099301
Fax: +886 2 26099303

Test Date	2025/02/21	Temp./Hum.	21°C/58%
Test Voltage	AC 120V 60Hz (Via AC Adapter)	Tested By	Nick Du



Site No. : No.8 Shielded Room Data No. : 3
Instrument 1 : Receiver ESR(774)
Instrument 2 : ENV432 (567)(A)|CE-08|ESH3-Z2 (354)
Limit : FCC-15B-B (QP) Phase : Line
Environment : 21°C/58% Test Rating : 120Vac/60Hz
EUT Model : SM-01 Engineer : Nick Du
Test Mode : operating

	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Pulse Att. (dB)	Reading (dBμV)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Remark
1	0.153	10.26	0.03	9.85	16.08	36.22	65.83	29.61	QP
2	0.153	10.26	0.03	9.85	9.76	29.90	55.83	25.93	Average
3	0.415	10.25	0.03	9.85	7.93	28.06	57.55	29.49	QP
4	0.415	10.25	0.03	9.85	4.84	24.97	47.55	22.58	Average
5	0.454	10.25	0.03	9.85	8.64	28.77	56.81	28.04	QP
6	0.454	10.25	0.03	9.85	4.87	25.00	46.81	21.81	Average
7	4.252	10.32	0.08	9.86	6.36	26.62	56.00	29.38	QP
8	4.252	10.32	0.08	9.86	4.00	24.26	46.00	21.74	Average
9	13.560	10.52	0.16	9.91	30.21	50.80	60.00	9.20	QP
10	13.560	10.52	0.16	9.91	28.12	48.71	50.00	1.29	Average
11	27.019	10.82	0.23	9.99	5.35	26.39	60.00	33.61	QP
12	27.019	10.82	0.23	9.99	3.52	24.56	50.00	25.44	Average

Remarks: 1. Emission Level(dBμV)= AMN Factor(dB) + Cable Loss(dB) + Pulse Att.(dB) + Reading(dBμV).
2. The frequency point 13.514MHz is NFC frequency point.

A.2 RADIATED EMISSION (IN-BAND)

Test Date	2025/02/18	Temp./Hum.	20°C/58%
Test Voltage	AC 120V 60Hz (Via AC Adapter)	Tested By	Ryan Chiang

A.2.1 Radiated Emission (In-Band) Result

Test Mode	NFC	Frequency	TX 13.56MHz
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Antenna at 0 Degree

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
13.56	37.54	0.40	61.63	51.17	124.00	72.83	QP
27.134	34.920	0.63	56.58	43.88	69.54	25.66	QP

Antenna at 90 Degree

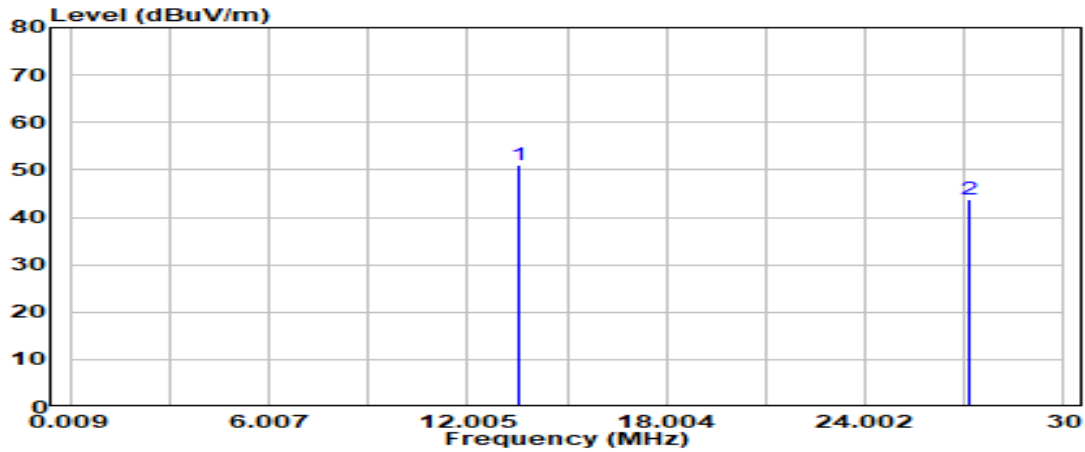
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
13.56	37.54	0.40	69.97	59.51	124.00	64.49	QP
27.134	34.920	0.63	63.87	51.17	69.54	18.37	QP

Note: 1. All emissions are lower than the ambient level cannot be measured.
2. Peak Emission Level=Antenna Factor + Cable Loss + Meter Reading

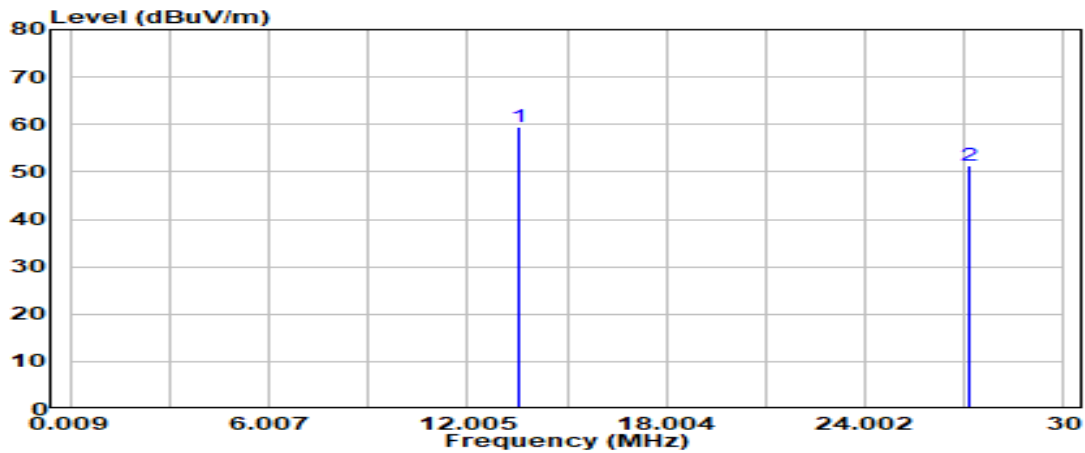
A.2.2 Radiated Emission (In-Band) Measurement Plots

Test Mode	NFC	Frequency	TX 13.56MHz
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Antenna at 0 Degree



Antenna at 90 Degree



A.3 RADIATED EMISSION (OUT-BAND)

Test Date	2025/02/19	Temp./Hum.	24°C/57%
Test Voltage	AC 120V 60Hz (Via AC Adapter)	Tested By	Ryan Chiang

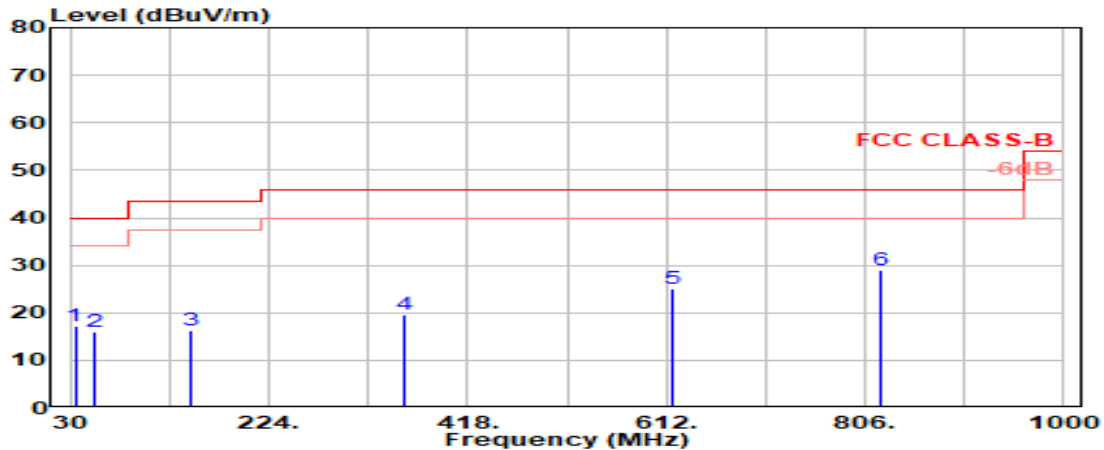
A.3.1 Emissions within Restricted Frequency Bands

A.3.1.1 Frequency 9kHz~30MHz

The emissions (9kHz~30MHz) not reported for there is no emission be found.

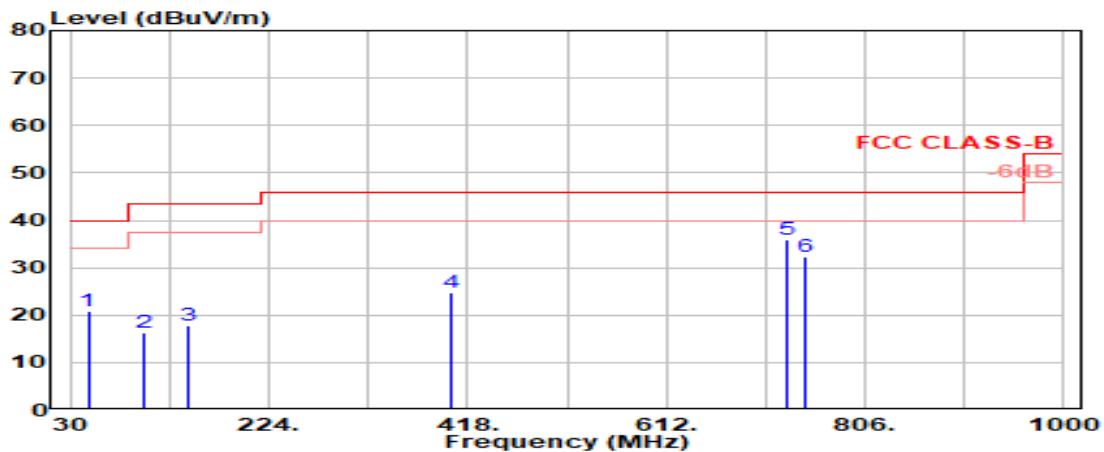
A.3.1.2 Frequency 30MHz ~ 1000MHz

Test Mode	Charge Mode
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Antenna at Horizontal Polarization

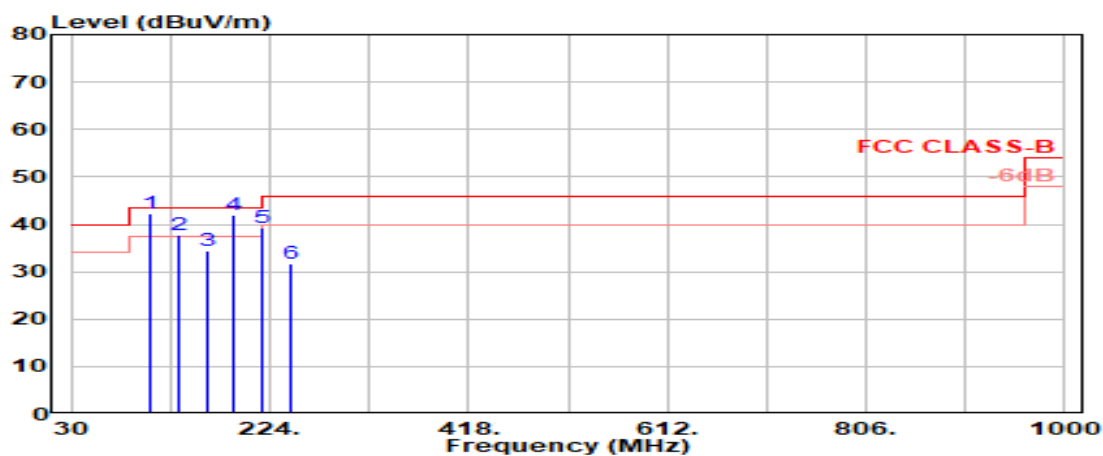
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
34.850	19.81	0.65	32.67	29.45	17.24	40.00	22.76	Peak
53.280	21.61	0.76	32.65	26.30	16.03	40.00	23.97	Peak
148.340	21.95	1.15	32.49	25.67	16.29	43.50	27.21	Peak
355.920	24.41	1.90	32.43	25.76	19.63	46.00	26.37	Peak
616.850	28.32	2.97	32.47	26.24	25.05	46.00	20.95	Peak
821.520	30.74	3.45	32.03	26.76	28.92	46.00	17.08	Peak



Antenna at Vertical Polarization

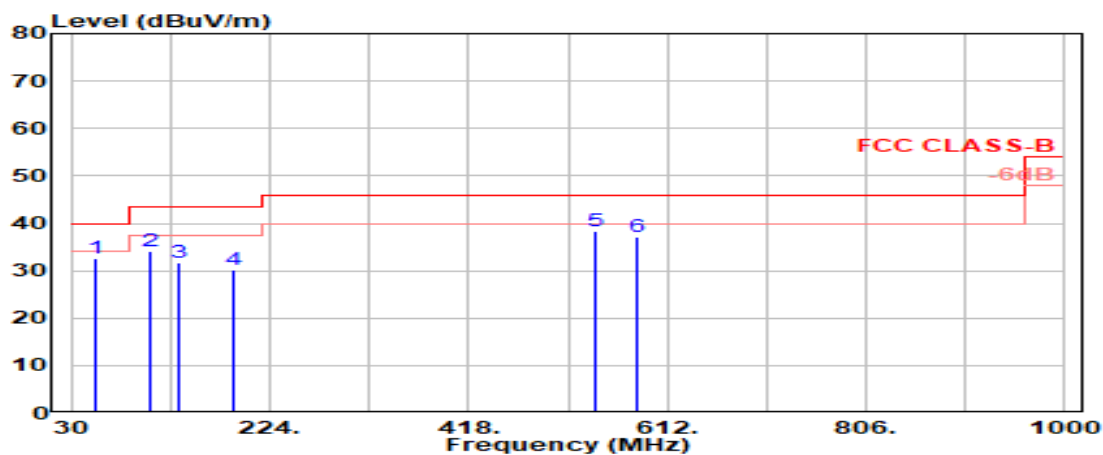
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
47.460	21.45	0.74	32.66	31.25	20.78	40.00	19.22	Peak
101.780	17.82	0.98	32.56	29.91	16.16	43.50	27.34	Peak
146.400	21.30	1.14	32.49	27.84	17.80	43.50	25.70	Peak
402.480	25.42	2.09	32.43	29.64	24.72	46.00	21.28	Peak
729.370	29.63	3.29	32.31	35.18	35.79	46.00	10.21	Peak
746.830	29.87	3.32	32.26	31.39	32.32	46.00	13.68	Peak

Test Mode	NFC	Frequency	TX 13.56MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
107.600	17.67	1.00	0	23.71	42.38	43.50	1.12	QP
134.760	18.74	1.10	32.51	50.45	37.78	43.50	5.72	Peak
161.920	19.64	1.20	32.48	46.17	34.53	43.50	8.97	Peak
189.080	19.50	1.29	32.45	53.58	41.91	43.50	1.59	Peak
216.240	21.19	1.38	32.44	48.98	39.11	46.00	6.89	Peak
243.400	21.50	1.47	32.44	41.11	31.64	46.00	14.36	Peak



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
53.280	21.61	0.76	32.65	42.83	32.55	40.00	7.45	Peak
107.600	17.67	1.00	32.55	48.13	34.26	43.50	9.24	Peak
134.760	18.74	1.10	32.51	44.31	31.64	43.50	11.86	Peak
189.080	19.50	1.29	32.45	41.82	30.15	43.50	13.35	Peak
542.160	26.98	2.75	32.47	40.93	38.20	46.00	7.80	Peak
582.900	27.81	2.87	32.48	39.05	37.24	46.00	8.76	Peak

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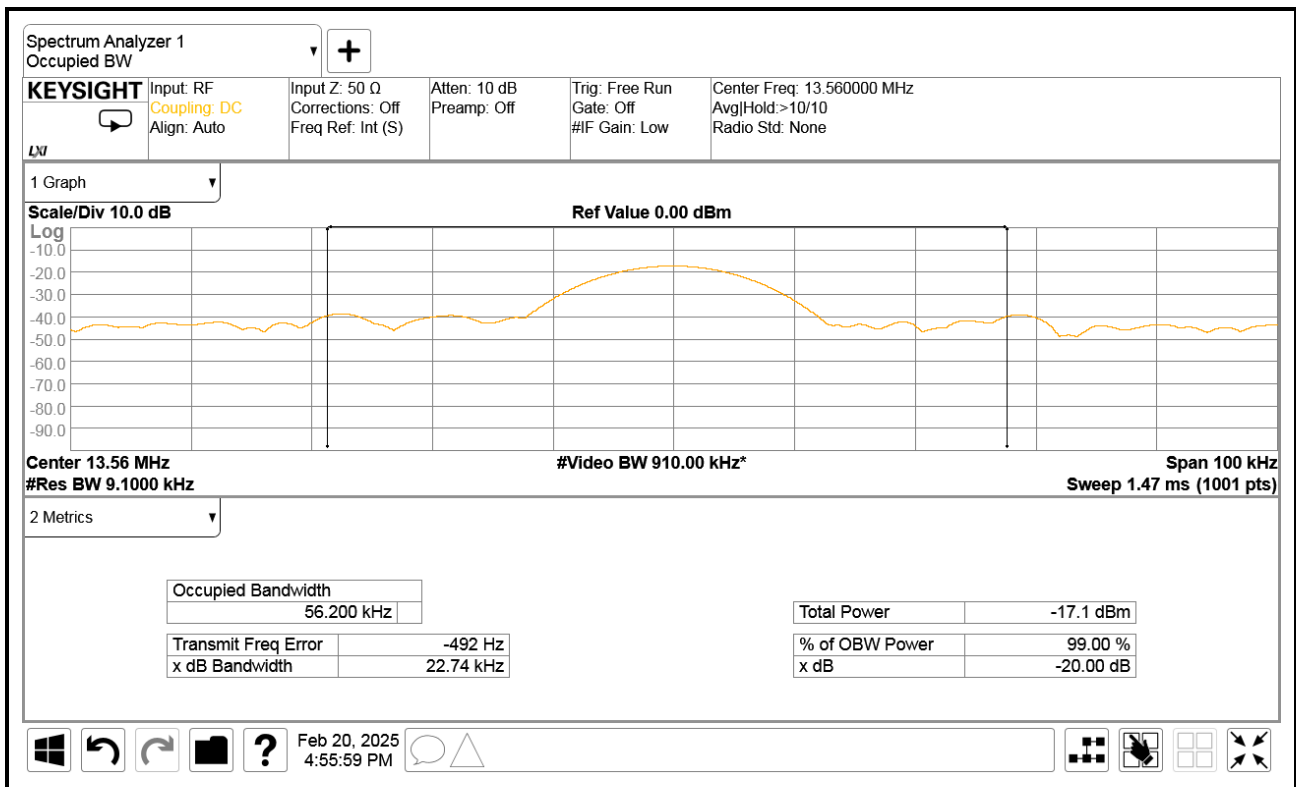
A.4 20dB/99% BANDWIDTH

Test Date	2025/02/20	Temp./Hum.	19°C/61%
Test Voltage	AC 120V 60Hz (Via AC Adapter)	Tested By	Ryan Chiang

A.4.1 20dB/99% Bandwidth Result

Centre Frequency (MHz)	20dB Bandwidth (kHz)	99% Bandwidth (kHz)
13.56	22.74	56.20

A.4.2 20dB/99% Bandwidth Measurement Plots



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New Taipei City244, Taiwan

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Fax: +886 2 26099303

A.5 FREQUENCY STABILITY

Test Date	2025/02/21	Temp./Hum.	21°C/58%
Test Voltage	DC 2.55 ~ 4.25V (Via DC Power Supply)	Tested By	Ryan Chiang

Test Temperature (°C)	Test Voltage (Vdc)	0 Minute		2 Minute		5 Minute		10 Minute	
		Frequency (MHz)	Error (%)	Frequency (MHz)	Error (%)	Frequency (MHz)	Error (%)	Frequency (MHz)	Error (%)
-20	3.7	13.55987	-0.00059	13.55996	0.00007	13.55998	0.00022	13.56008	0.00096
-10	3.7	13.55941	0.00398	13.55989	0.00044	13.55994	-0.00007	13.56017	0.00162
0	3.7	13.55998	0.00022	13.55998	0.00022	13.56001	0.00044	13.56038	0.00317
10	3.7	13.56013	0.00133	13.56003	0.00059	13.56016	0.00155	13.56056	0.00450
20	3.7	13.56021	0.00192	13.56027	0.00236	13.56026	0.00229	13.56021	0.00192
30	3.7	13.56036	0.00302	13.56021	0.00192	13.56009	0.00103	13.56036	0.00302
40	3.7	13.56015	0.00147	13.56014	0.00140	13.56027	0.00236	13.56015	0.00147
50	3.7	13.56018	0.00170	13.56018	0.00170	13.56024	0.00214	13.56018	0.00170

Note: 0 Minute means the time it takes for the product to initially reach the set ambient temperature when placed in a constant temperature and humidity chamber.

Test Temperature (°C)	Test Voltage (Vdc)	0 Minute		2 Minute		5 Minute		10 Minute	
		Frequency (MHz)	Error (%)	Frequency (MHz)	Error (%)	Frequency (MHz)	Error (%)	Frequency (MHz)	Error (%)
20	4.25	13.55991	-0.00029	13.56019	0.00177	13.56039	0.00324	13.56066	0.00524
20	2.55	13.56025	0.00221	13.56015	0.00147	13.56028	0.00243	13.56025	0.00221