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## TABLE OF CONTENTS

<b>A.1 RADIATED EMISSION .....</b>	<b>2</b>
A.1.1 Emissions within Restricted Frequency Bands.....	2
A.1.2 Emissions outside the frequency band:.....	21
A.1.3 Emissions in Non-restricted Frequency Bands:.....	24
<b>A.2 DTS/OCCUPIED BANDWIDTH.....</b>	<b>25</b>
A.2.1 DTS/Occupied Bandwidth Result.....	25
A.2.2 Measurement Plots .....	26
<b>A.3 MAXIMUM PEAK OUTPUT POWER .....</b>	<b>28</b>
A.3.1 Peak Output Power .....	28
A.3.2 Measurement Plots .....	29
<b>A.4 EMISSION LIMITATIONS .....</b>	<b>30</b>
<b>A.5 POWER SPECTRAL DENSITY .....</b>	<b>34</b>
A.5.1 Power Spectral Density Result .....	34
A.5.2 Measurement Plots .....	35

## A.1 RADIATED EMISSION

Test Date	2023/05/25~29	Temp./Hum.	22~24°C/40~64%
Test Voltage	DC 6V (Via Battery)	Tested By	Harry Huang

### A.1.1 Emissions within Restricted Frequency Bands

#### A.2.1.1 Frequency 9kHz~30MHz

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

#### A.2.1.2 Frequency Below 1GHz

### Test Model: R7214SB, ANT A

Mode	FASSTest	Frequency	TX 2472.960MHz
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#### Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
33.880	22.50	1.28	26.51	31.16	28.43	40.00	11.57	Peak
101.780	16.96	2.32	26.30	34.21	27.20	43.50	16.30	Peak
167.740	16.01	3.06	25.94	40.48	33.60	43.50	9.90	Peak
198.780	15.36	3.39	25.81	41.14	34.07	43.50	9.43	Peak
300.630	19.32	4.37	25.67	35.24	33.26	46.00	12.74	Peak
979.630	26.89	9.16	26.81	32.63	41.86	54.00	12.14	Peak

#### Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
41.640	18.38	1.42	26.50	37.92	31.22	40.00	8.78	Peak
112.450	17.61	2.45	26.23	33.89	27.72	43.50	15.78	Peak
141.550	17.42	2.78	26.06	34.58	28.72	43.50	14.78	Peak
278.320	18.97	4.16	25.69	32.51	29.94	46.00	16.06	Peak
654.680	24.58	7.07	27.40	32.90	37.14	46.00	8.86	Peak
984.480	26.95	9.19	26.80	32.93	42.27	54.00	11.73	Peak

**Test Model: R7214SB, ANT B**

Mode	FASSTest	Frequency	TX 2472.960MHz					
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**Antenna at Horizontal Polarization**

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
35.820	21.78	1.32	26.51	31.56	28.15	40.00	11.85	Peak
101.780	16.96	2.32	26.30	34.23	27.22	43.50	16.28	Peak
198.780	15.36	3.39	25.81	40.18	33.11	43.50	10.39	Peak
233.700	17.53	3.73	25.75	36.64	32.15	46.00	13.85	Peak
515.970	23.64	6.46	27.20	33.31	36.21	46.00	9.79	Peak
977.690	26.88	9.15	26.82	32.63	41.84	54.00	12.16	Peak

**Antenna at Vertical Polarization**

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
40.670	18.93	1.40	26.50	37.49	31.32	40.00	8.68	Peak
105.660	17.21	2.37	26.27	34.17	27.47	43.50	16.03	Peak
141.550	17.42	2.78	26.06	34.72	28.86	43.50	14.64	Peak
199.750	15.35	3.40	25.81	36.47	29.41	43.50	14.09	Peak
858.380	25.72	8.41	27.14	33.64	40.64	46.00	5.36	Peak
974.780	26.86	9.14	26.83	32.84	42.01	54.00	11.99	Peak

**Test Model: R7314SB, ANT A**

Mode	FASSTest	Frequency	TX 2472.960MHz					
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**Antenna at Horizontal Polarization**

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
35.820	21.78	1.32	26.51	31.14	27.73	40.00	12.27	Peak
101.780	16.96	2.32	26.30	34.00	26.99	43.50	16.51	Peak
193.930	15.40	3.33	25.83	38.00	30.90	43.50	12.60	Peak
277.350	18.95	4.15	25.69	35.03	32.45	46.00	13.55	Peak
663.410	24.62	7.11	27.40	33.18	37.51	46.00	8.49	Peak
969.930	26.78	9.11	26.84	32.72	41.77	54.00	12.23	Peak

**Antenna at Vertical Polarization**

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
42.610	17.83	1.44	26.50	39.22	31.99	40.00	8.01	Peak
103.720	17.09	2.35	26.28	34.36	27.51	43.50	15.99	Peak
141.550	17.42	2.78	26.06	33.95	28.09	43.50	15.41	Peak
198.780	15.36	3.39	25.81	37.15	30.09	43.50	13.41	Peak
264.740	18.74	4.02	25.71	33.39	30.45	46.00	15.55	Peak
983.510	26.94	9.18	26.80	32.59	41.91	54.00	12.09	Peak

**Test Model: R7314SB, ANT B**

Mode	FASSTest	Frequency	TX 2472.960MHz
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**Antenna at Horizontal Polarization**

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
42.610	17.83	1.44	26.50	41.95	34.72	40.00	5.28	Peak
106.630	17.27	2.38	26.26	35.64	29.02	43.50	14.48	Peak
199.750	15.35	3.40	25.81	40.29	33.23	43.50	10.27	Peak
318.090	19.78	4.59	25.83	31.91	30.45	46.00	15.55	Peak
808.910	25.36	8.02	27.26	33.26	39.38	46.00	6.62	Peak
981.570	26.91	9.17	26.81	32.61	41.89	54.00	12.11	Peak

**Antenna at Vertical Polarization**

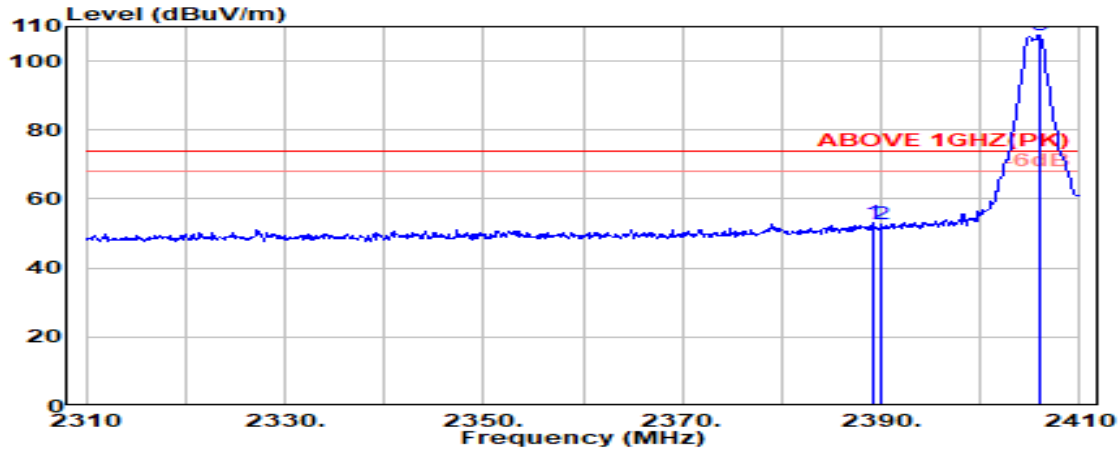
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
41.640	18.38	1.42	26.50	40.26	33.56	40.00	6.44	Peak
103.720	17.09	2.35	26.28	34.28	27.44	43.50	16.06	Peak
141.550	17.42	2.78	26.06	35.33	29.47	43.50	14.03	Peak
198.780	15.36	3.39	25.81	35.37	28.30	43.50	15.20	Peak
312.270	19.63	4.52	25.78	32.75	31.12	46.00	14.88	Peak
993.210	27.04	9.23	26.78	32.73	42.23	54.00	11.77	Peak

A.2.1.3 Frequency Above 1 GHz to 10<sup>th</sup> harmonics

**Band Edge:**

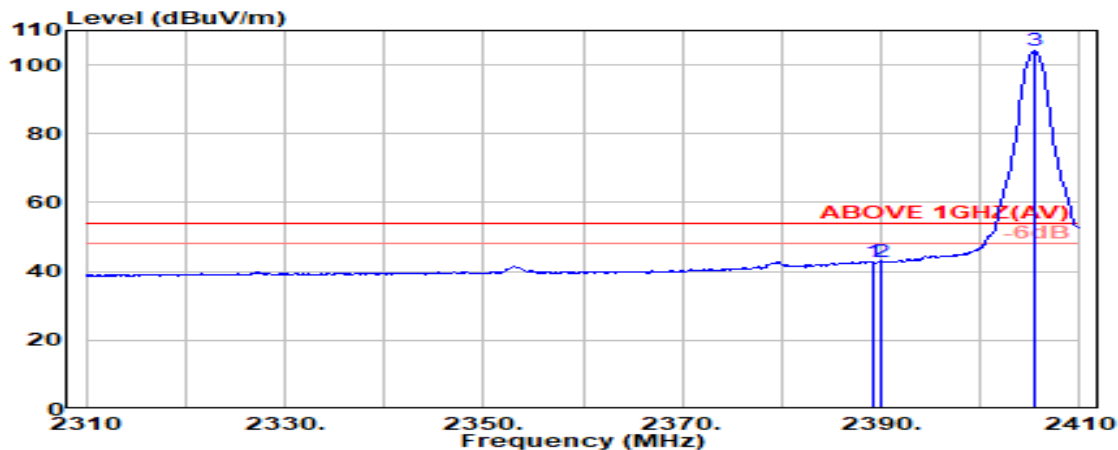
**Test Model: R7214SB, ANT A**

Mode	FASSTest	Frequency	TX 2405.376MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.100	28.30	6.03	34.44	53.33	53.22	74.00	20.78	Peak
2390.000	28.30	6.03	34.44	52.69	52.59	74.00	21.41	Peak
@ 2405.900	28.31	6.06	34.44	107.59	107.52	---	---	Peak

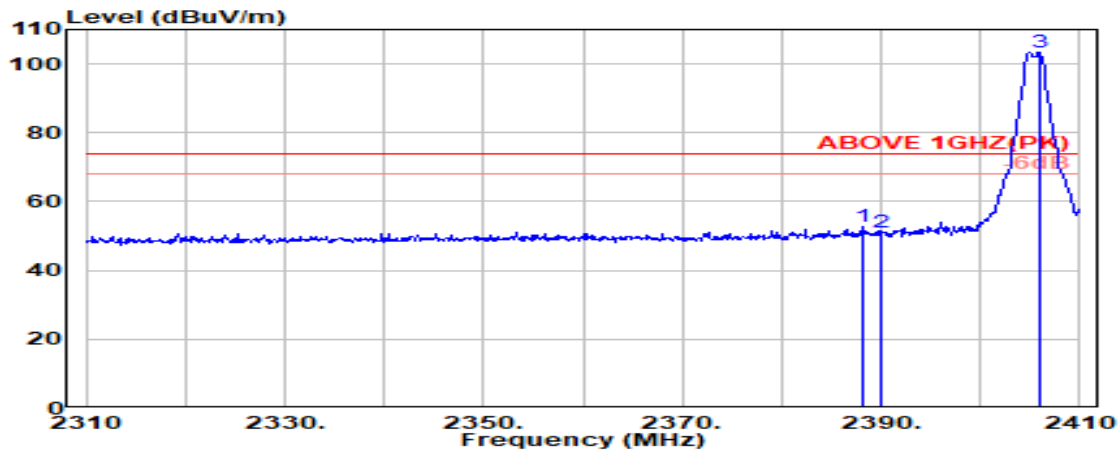


Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.100	28.30	6.03	34.44	43.01	42.91	54.00	11.09	Average
2390.000	28.30	6.03	34.44	42.99	42.89	54.00	11.11	Average
@ 2405.400	28.31	6.06	34.44	104.17	104.10	---	---	Average

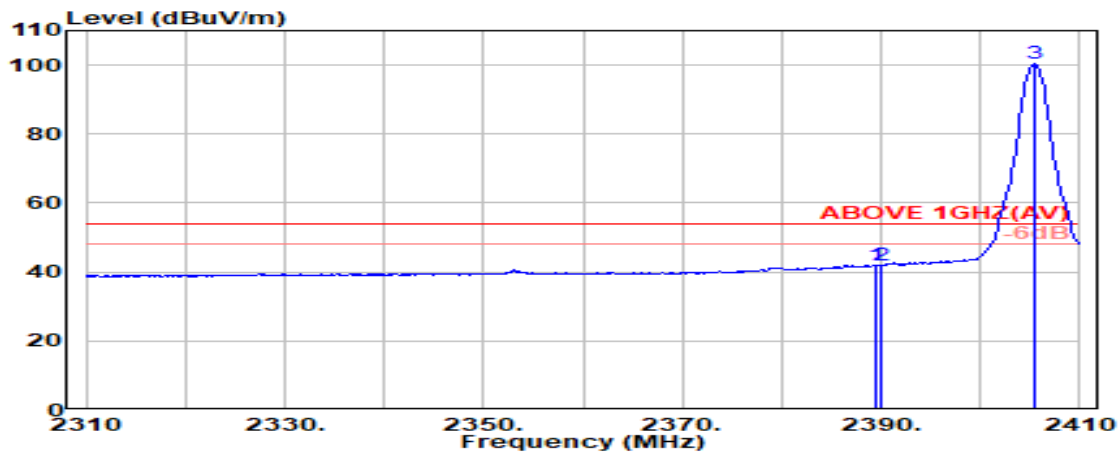
Remark: The “@” means fundamental frequency, it is ignored in this section.

Mode	FASSTest	Frequency	TX 2405.376MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2388.200	28.30	6.03	34.44	52.66	52.56	74.00	21.44	Peak
2390.000	28.30	6.03	34.44	51.28	51.18	74.00	22.82	Peak
@ 2405.900	28.31	6.06	34.44	103.45	103.38	---	---	Peak

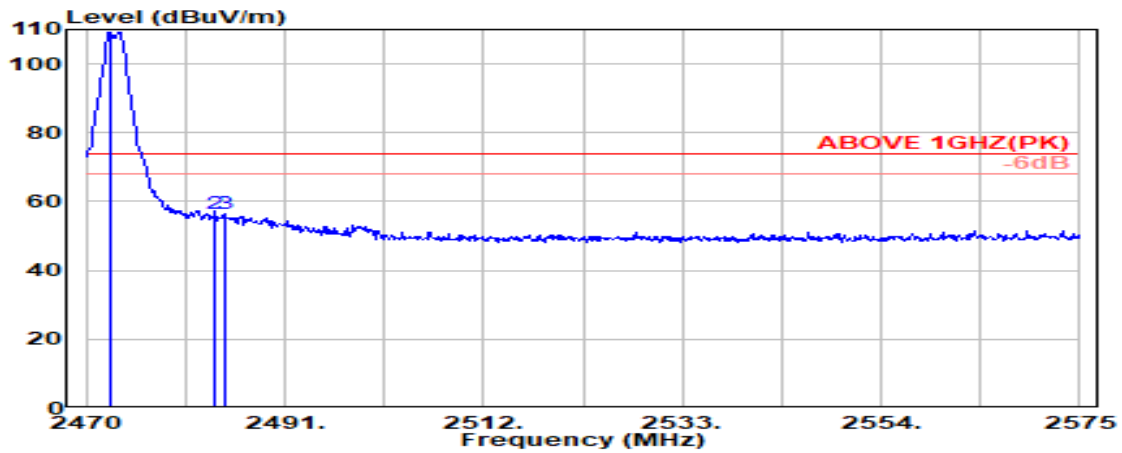


Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.400	28.30	6.03	34.44	42.22	42.12	54.00	11.88	Average
2390.000	28.30	6.03	34.44	41.86	41.76	54.00	12.24	Average
@ 2405.400	28.31	6.06	34.44	100.37	100.29	---	---	Average

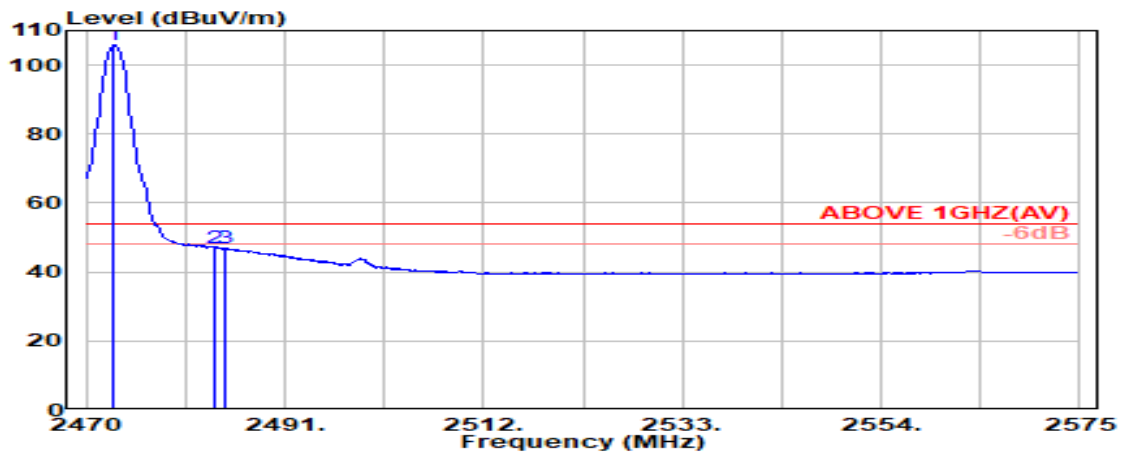
Remark: The “@” means fundamental frequency, it is ignored in this section.

Mode	FASSTest	Frequency	TX 2472.960MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2472.520	28.45	6.15	34.45	108.95	109.09	---	---	Peak
2483.500	28.47	6.17	34.46	56.21	56.39	74.00	17.61	Peak
2484.595	28.47	6.17	34.46	56.14	56.33	74.00	17.67	Peak

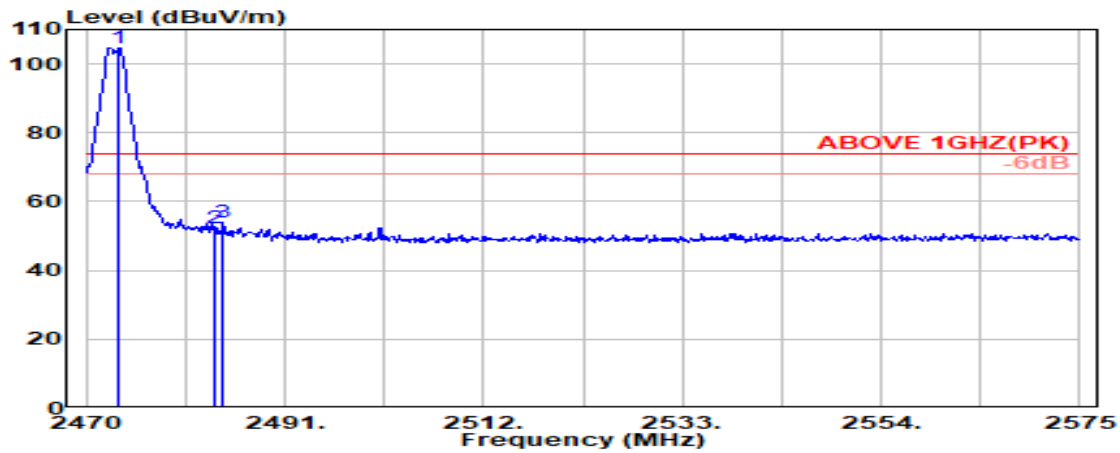


Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2472.940	28.45	6.15	34.45	105.51	105.65	---	---	Average
2483.500	28.47	6.17	34.46	46.92	47.10	54.00	6.90	Average
2484.700	28.47	6.17	34.46	46.66	46.84	54.00	7.16	Average

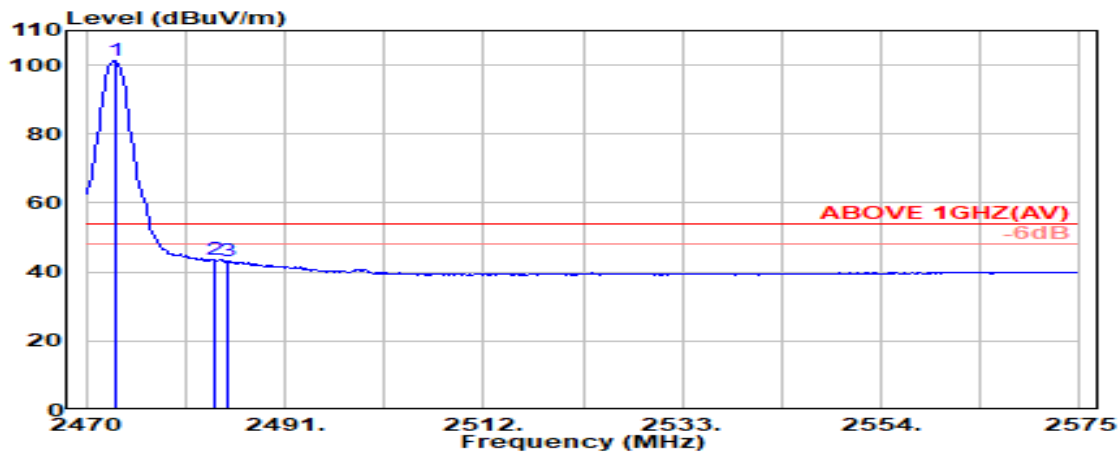
Remark: The "@" means fundamental frequency, it is ignored in this section.

Mode	FASSTest	Frequency	TX 2472.960MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2473.465	28.45	6.15	34.45	104.37	104.51	---	---	Peak
2483.500	28.47	6.17	34.46	52.28	52.46	74.00	21.54	Peak
2484.490	28.47	6.17	34.46	53.69	53.87	74.00	20.13	Peak



Antenna at Vertical Polarization

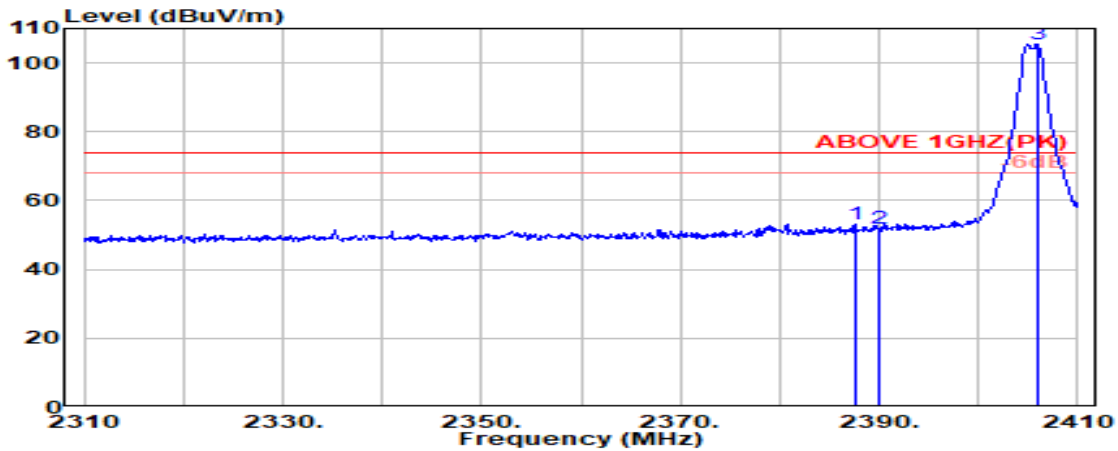
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2473.045	28.45	6.15	34.45	101.22	101.36	---	---	Average
2483.500	28.47	6.17	34.46	43.25	43.43	54.00	10.57	Average
2484.910	28.47	6.17	34.46	43.09	43.27	54.00	10.73	Average

Remark: The “@” means fundamental frequency, it is ignored in this section.



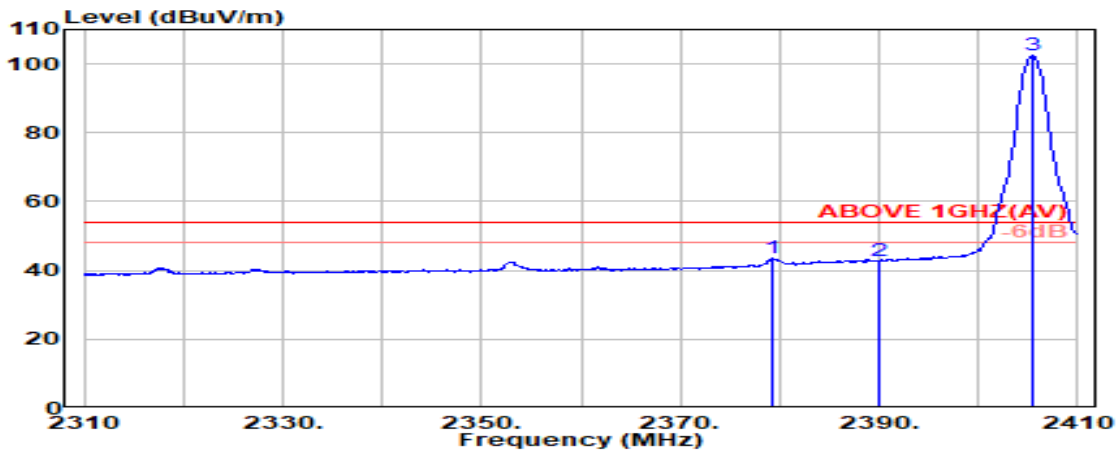
**Test Model: R7214SB, ANT B**

Mode	FASSTest	Frequency	TX 2405.376MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2387.600	28.30	6.03	34.44	53.44	53.33	74.00	20.67	Peak
2390.000	28.30	6.03	34.44	52.11	52.01	74.00	21.99	Peak
@ 2405.900	28.31	6.06	34.44	105.64	105.57	---	---	Peak

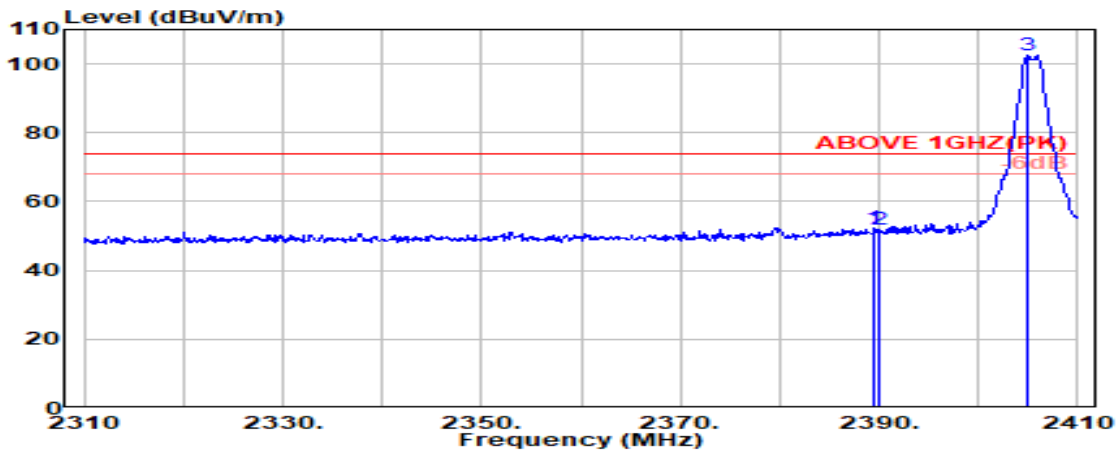


Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2379.300	28.30	6.02	34.44	43.62	43.51	54.00	10.49	Average
2390.000	28.30	6.03	34.44	42.77	42.67	54.00	11.33	Average
@ 2405.400	28.31	6.06	34.44	102.43	102.36	---	---	Average

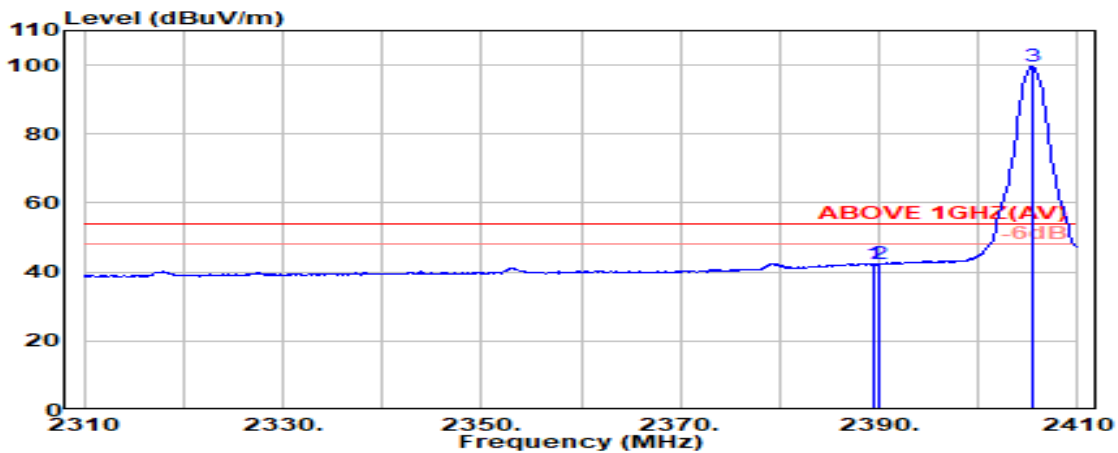
Remark: The “@” means fundamental frequency, it is ignored in this section.

Mode	FASSTest	Frequency	TX 2405.376MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.500	28.30	6.03	34.44	52.60	52.49	74.00	21.51	Peak
2390.000	28.30	6.03	34.44	52.09	51.99	74.00	22.01	Peak
@ 2405.000	28.31	6.06	34.44	102.49	102.42	---	---	Peak

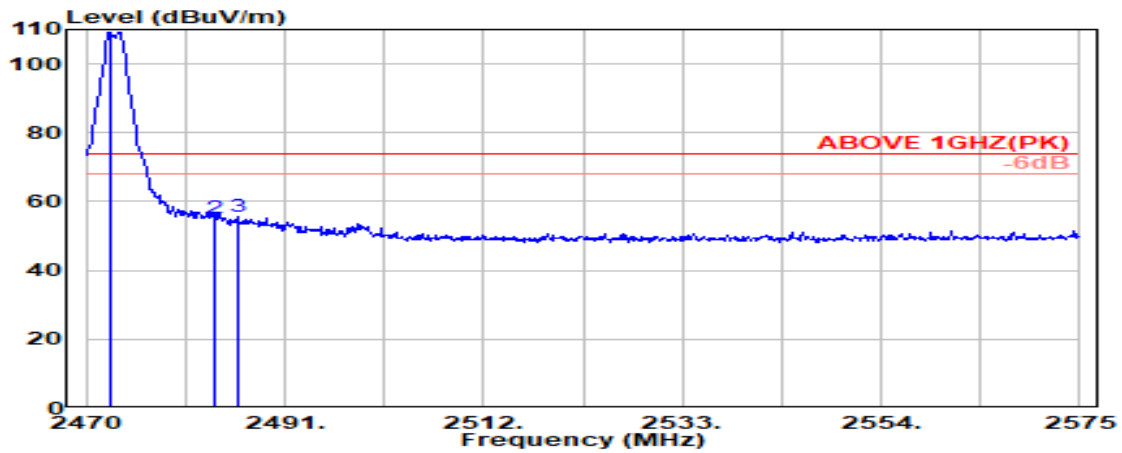


Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.400	28.30	6.03	34.44	42.55	42.45	54.00	11.55	Average
2390.000	28.30	6.03	34.44	42.35	42.25	54.00	11.75	Average
@ 2405.400	28.31	6.06	34.44	99.54	99.47	---	---	Average

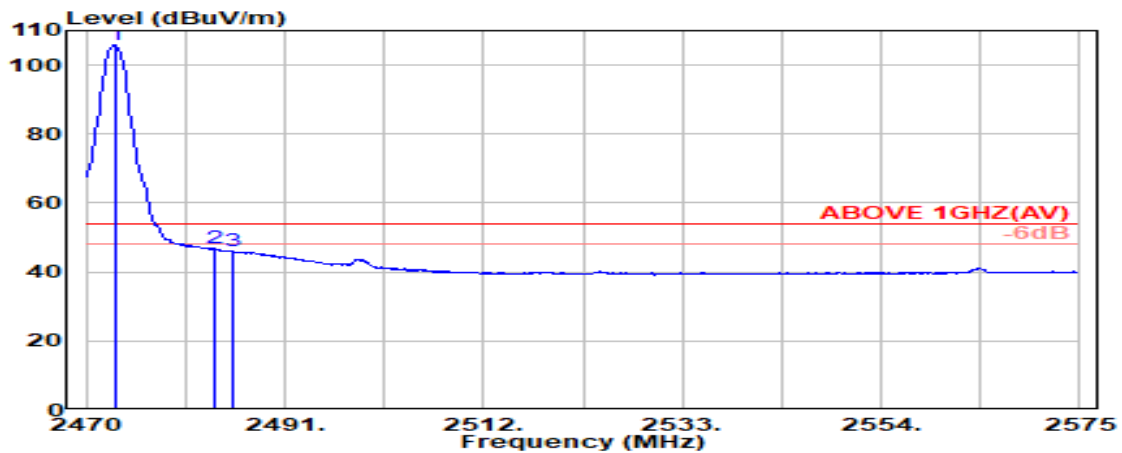
Remark: The "@" means fundamental frequency, it is ignored in this section.

Mode	FASSTest	Frequency	TX 2472.960MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
@ 2472.520	28.45	6.15	34.45	108.92	109.07	---	---	Peak
2483.500	28.47	6.17	34.46	54.89	55.07	74.00	18.93	Peak
2486.065	28.47	6.17	34.46	55.23	55.42	74.00	18.58	Peak

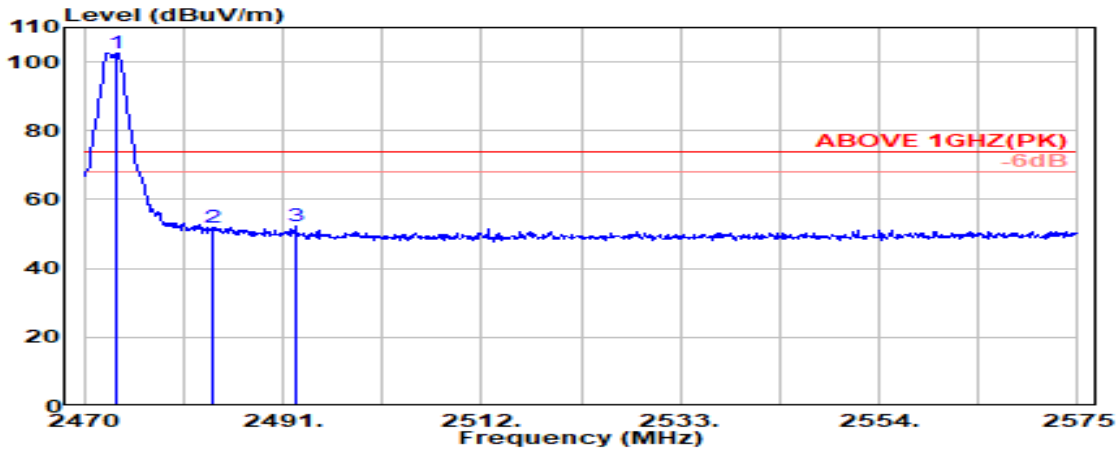


Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
@ 2473.045	28.45	6.15	34.45	105.70	105.84	---	---	Average
2483.500	28.47	6.17	34.46	46.55	46.73	54.00	7.27	Average
2485.435	28.47	6.17	34.46	46.05	46.23	54.00	7.77	Average

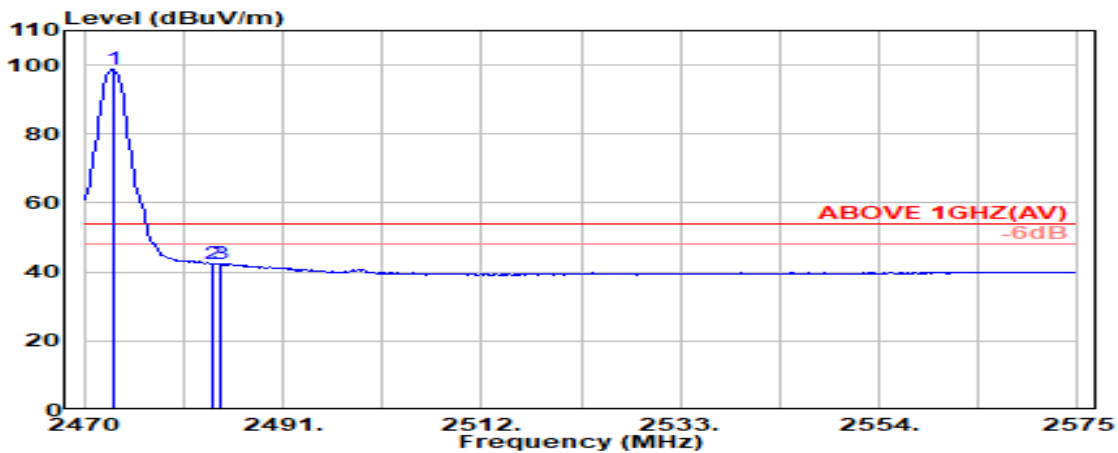
Remark: The "@" means fundamental frequency, it is ignored in this section.

Mode	FASSTest	Frequency	TX 2472.960MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2473.465	28.45	6.15	34.45	102.54	102.69	---	---	Peak
2483.500	28.47	6.17	34.46	51.77	51.95	74.00	22.05	Peak
2492.365	28.48	6.18	34.46	52.02	52.22	74.00	21.78	Peak



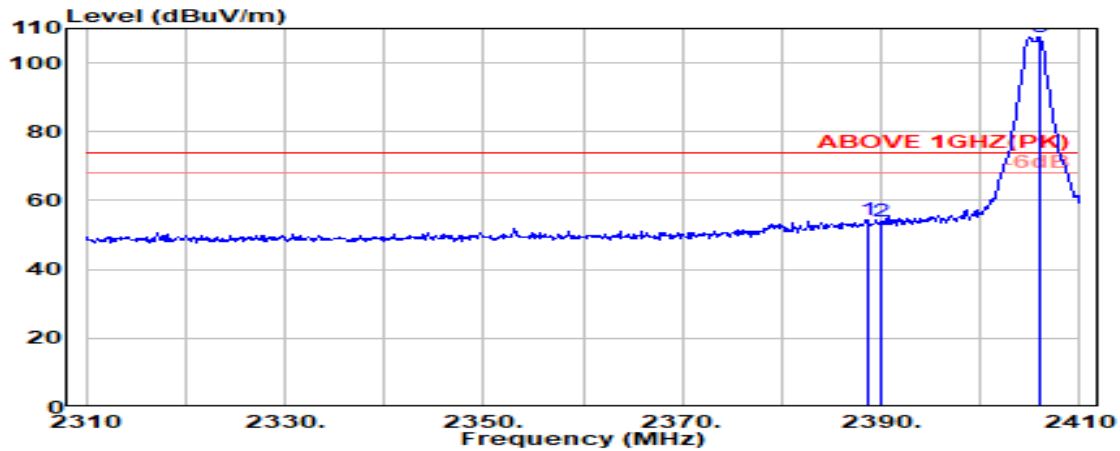
Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2473.045	28.45	6.15	34.45	98.78	98.92	---	---	Average
2483.500	28.47	6.17	34.46	42.31	42.49	54.00	11.51	Average
2484.490	28.47	6.17	34.46	42.20	42.39	54.00	11.61	Average

Remark: The “@” means fundamental frequency, it is ignored in this section.

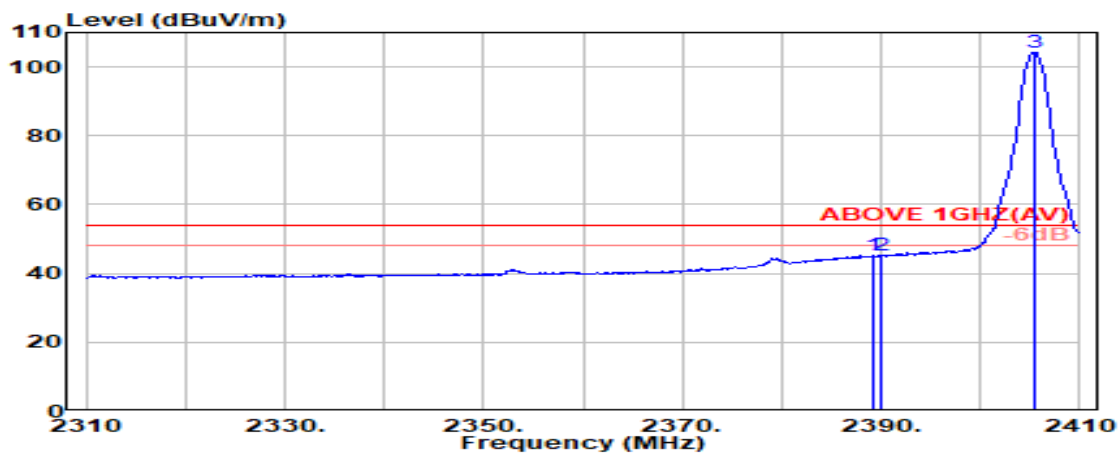
**Test Model: R7314SB, ANT A**

Mode	FASSTest	Frequency	TX 2405.376MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2388.800	28.30	6.03	34.44	54.55	54.44	74.00	19.56	Peak
2390.000	28.30	6.03	34.44	54.23	54.13	74.00	19.87	Peak
@ 2406.000	28.31	6.06	34.44	107.52	107.45	---	---	Peak

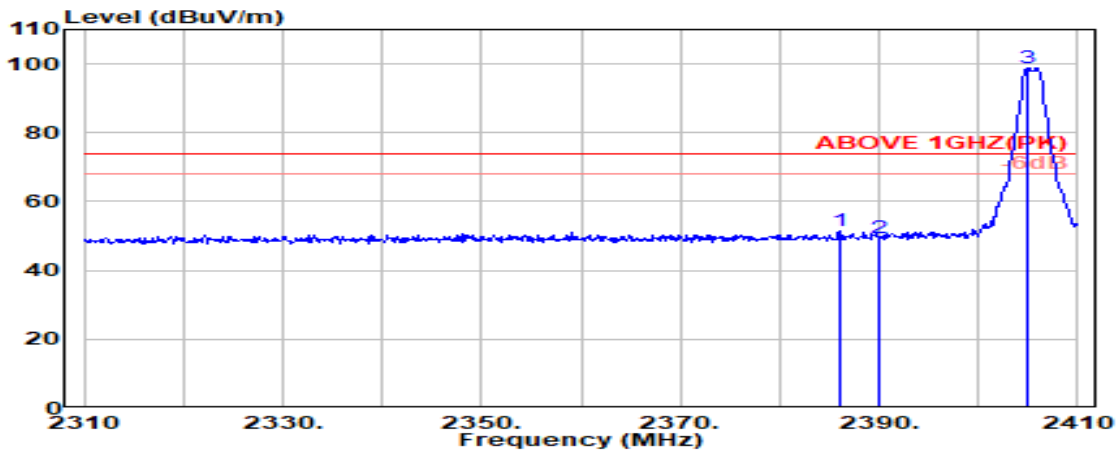


Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.300	28.30	6.03	34.44	45.29	45.19	54.00	8.81	Average
2390.000	28.30	6.03	34.44	45.40	45.30	54.00	8.70	Average
@ 2405.400	28.31	6.06	34.44	104.45	104.37	---	---	Average

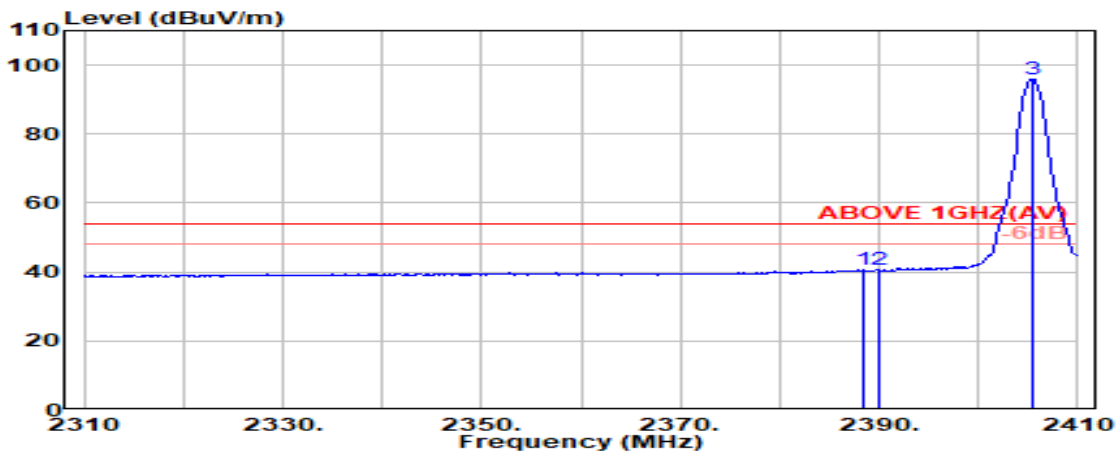
Remark: The “@” means fundamental frequency, it is ignored in this section.

Mode	FASSTest	Frequency	TX 2405.376MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2386.000	28.30	6.03	34.44	51.50	51.39	74.00	22.61	Peak
2390.000	28.30	6.03	34.44	49.51	49.41	74.00	24.59	Peak
@ 2404.900	28.31	6.06	34.44	99.02	98.95	---	---	Peak

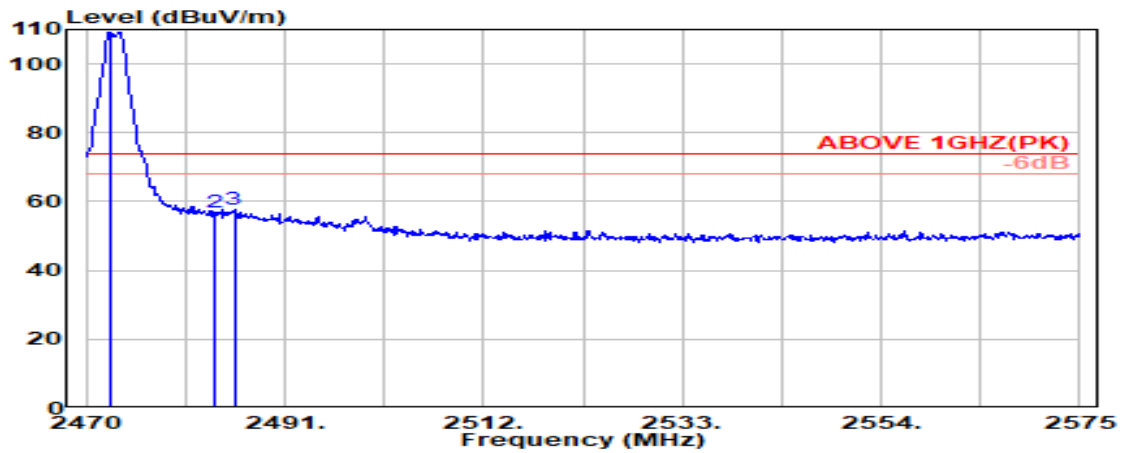


Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2388.400	28.30	6.03	34.44	40.83	40.73	54.00	13.27	Average
2390.000	28.30	6.03	34.44	40.66	40.56	54.00	13.44	Average
@ 2405.400	28.31	6.06	34.44	95.96	95.88	---	---	Average

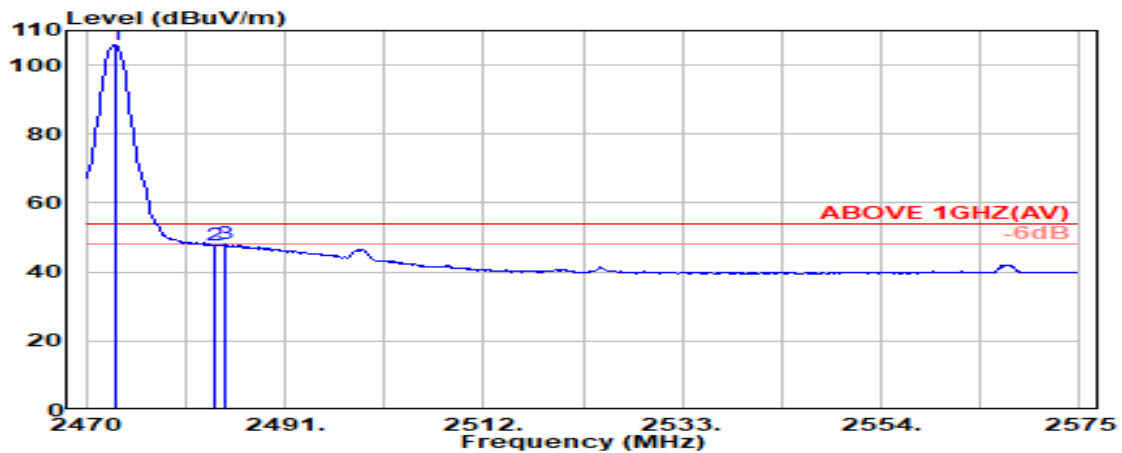
Remark: The “@” means fundamental frequency, it is ignored in this section.

Mode	FASSTest	Frequency	TX 2472.960MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2472.520	28.45	6.15	34.45	109.06	109.20	---	---	Peak
2483.500	28.47	6.17	34.46	56.75	56.92	74.00	17.08	Peak
2485.645	28.47	6.17	34.46	57.69	57.87	74.00	16.13	Peak

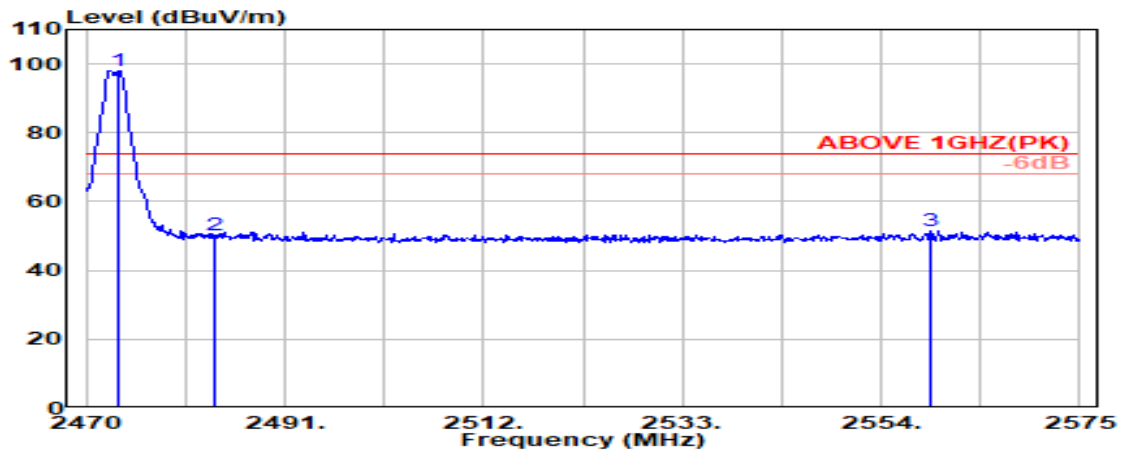


Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2473.045	28.45	6.15	34.45	105.77	105.92	---	---	Average
2483.500	28.47	6.17	34.46	47.40	47.58	54.00	6.42	Average
2484.805	28.47	6.17	34.46	47.80	47.99	54.00	6.01	Average

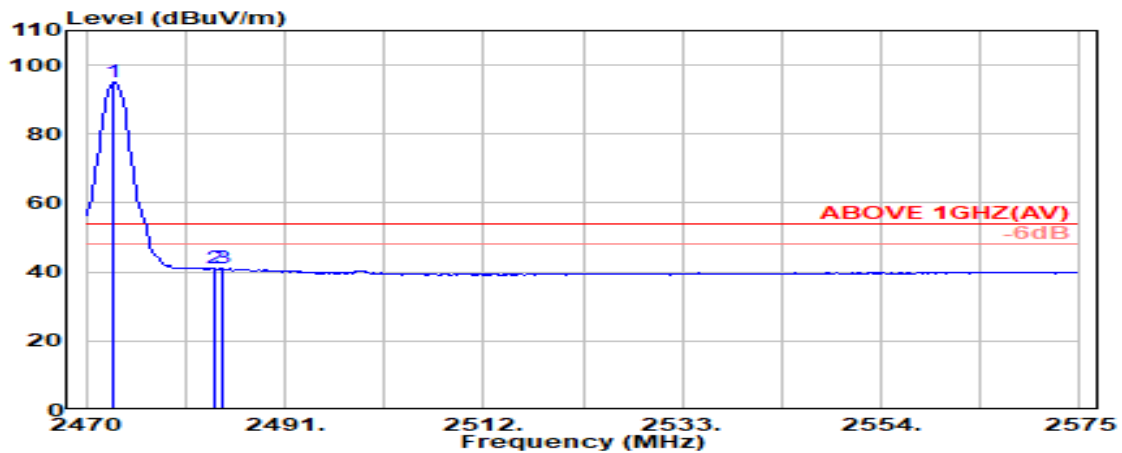
Remark: The "@" means fundamental frequency, it is ignored in this section.

Mode	FASSTest	Frequency	TX 2472.960MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2473.465	28.45	6.15	34.45	97.94	98.09	---	---	Peak
2483.500	28.47	6.17	34.46	50.03	50.21	74.00	23.79	Peak
2559.355	28.58	6.26	34.47	51.10	51.46	74.00	22.54	Peak



Antenna at Vertical Polarization

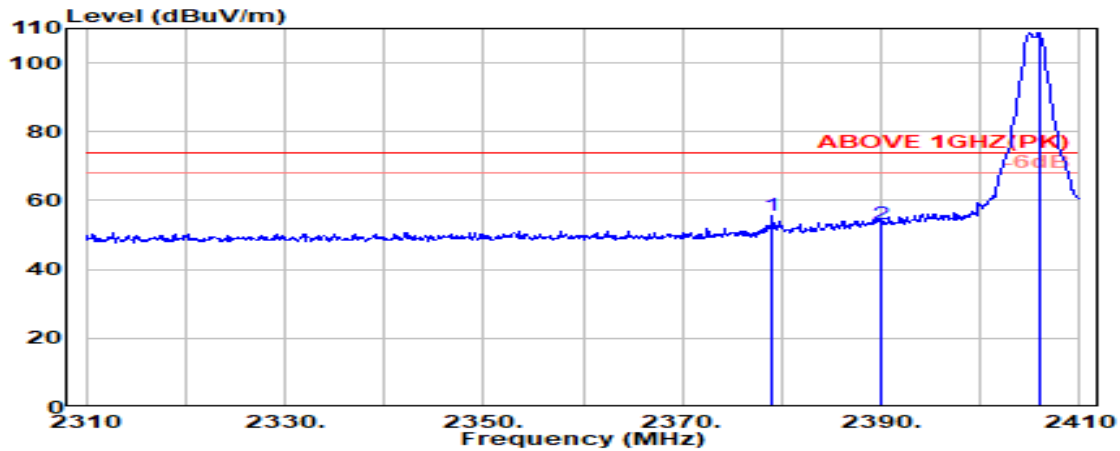
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2472.940	28.45	6.15	34.45	94.83	94.97	---	---	Average
2483.500	28.47	6.17	34.46	40.74	40.92	54.00	13.08	Average
2484.490	28.47	6.17	34.46	40.91	41.09	54.00	12.91	Average

Remark: The “@” means fundamental frequency, it is ignored in this section.



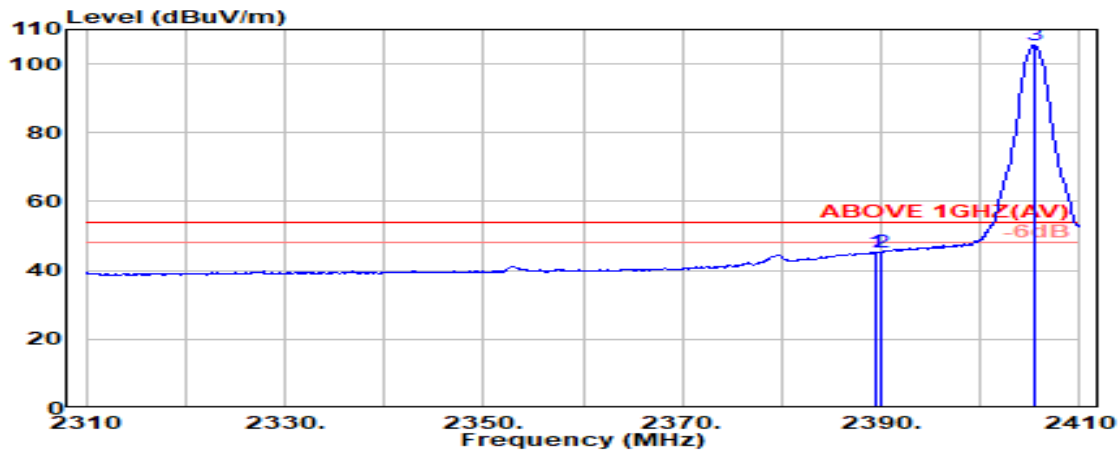
**Test Model: R7314SB, ANT B**

Mode	FASSTest	Frequency	TX 2405.376MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2379.100	28.30	6.02	34.44	55.93	55.81	74.00	18.19	Peak
2390.000	28.30	6.03	34.44	53.22	53.12	74.00	20.88	Peak
@ 2405.900	28.31	6.06	34.44	108.71	108.64	---	---	Peak

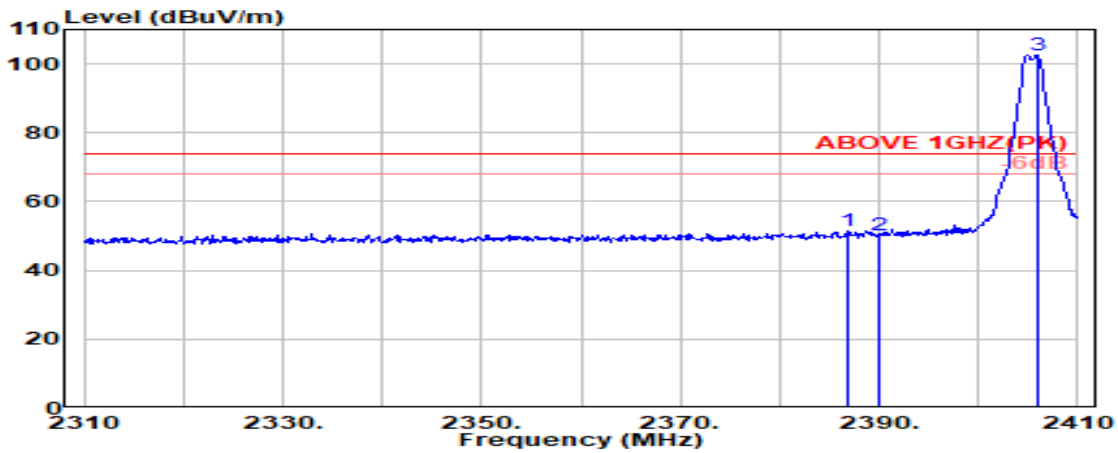


Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.500	28.30	6.03	34.44	45.55	45.44	54.00	8.56	Average
2390.000	28.30	6.03	34.44	45.25	45.15	54.00	8.85	Average
@ 2405.400	28.31	6.06	34.44	105.51	105.43	---	---	Average

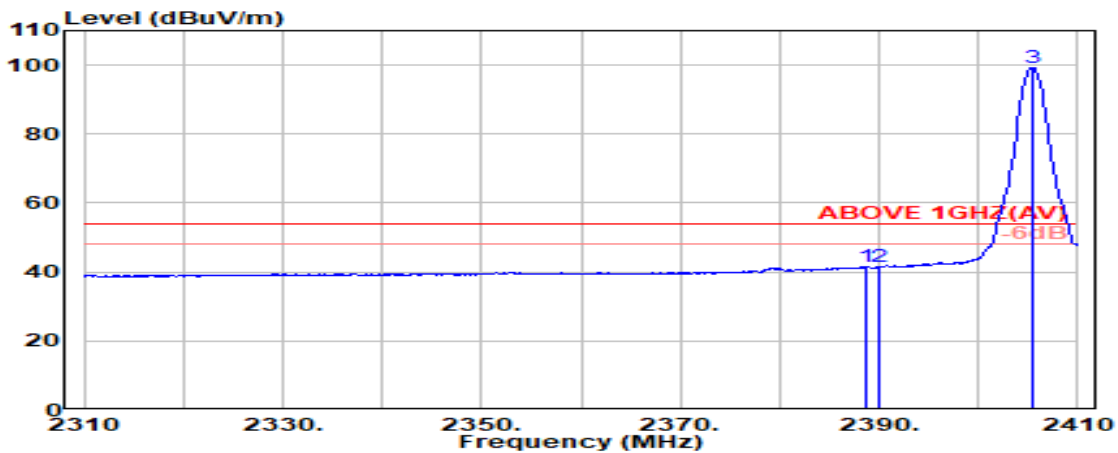
Remark: The “@” means fundamental frequency, it is ignored in this section.

Mode	FASSTest	Frequency	TX 2405.376MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2386.900	28.30	6.03	34.44	51.58	51.48	74.00	22.52	Peak
2390.000	28.30	6.03	34.44	50.54	50.43	74.00	23.57	Peak
@ 2405.900	28.31	6.06	34.44	102.76	102.69	---	---	Peak

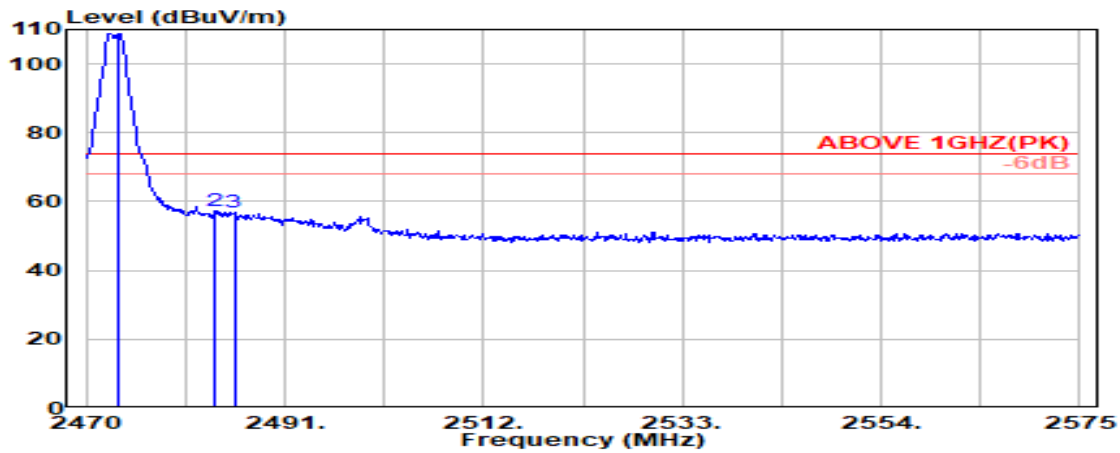


Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2388.700	28.30	6.03	34.44	41.48	41.37	54.00	12.63	Average
2390.000	28.30	6.03	34.44	41.44	41.34	54.00	12.66	Average
@ 2405.500	28.31	6.06	34.44	99.40	99.32	---	---	Average

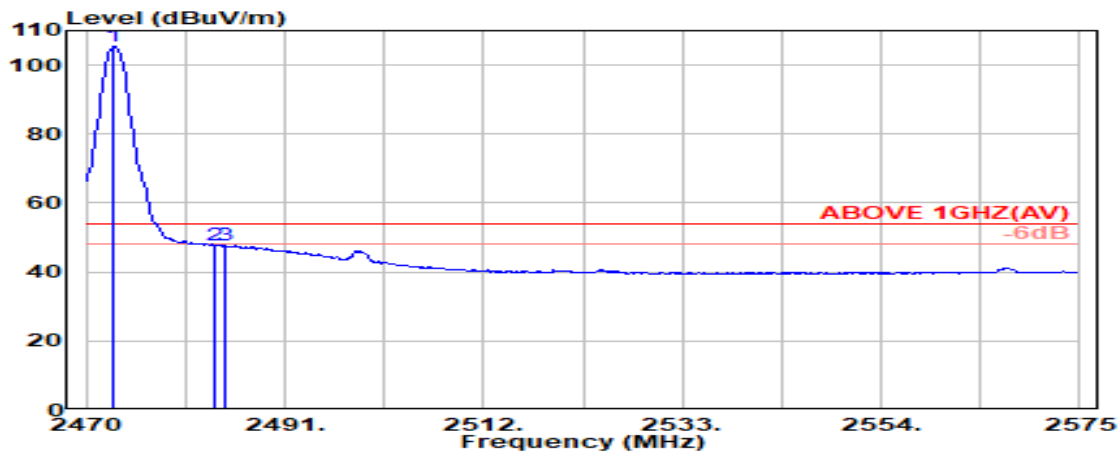
Remark: The “@” means fundamental frequency, it is ignored in this section.

Mode	FASSTest	Frequency	TX 2472.960MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2473.465	28.45	6.15	34.45	108.63	108.77	---	---	Peak
2483.500	28.47	6.17	34.46	56.92	57.09	74.00	16.91	Peak
2485.645	28.47	6.17	34.46	56.88	57.06	74.00	16.94	Peak

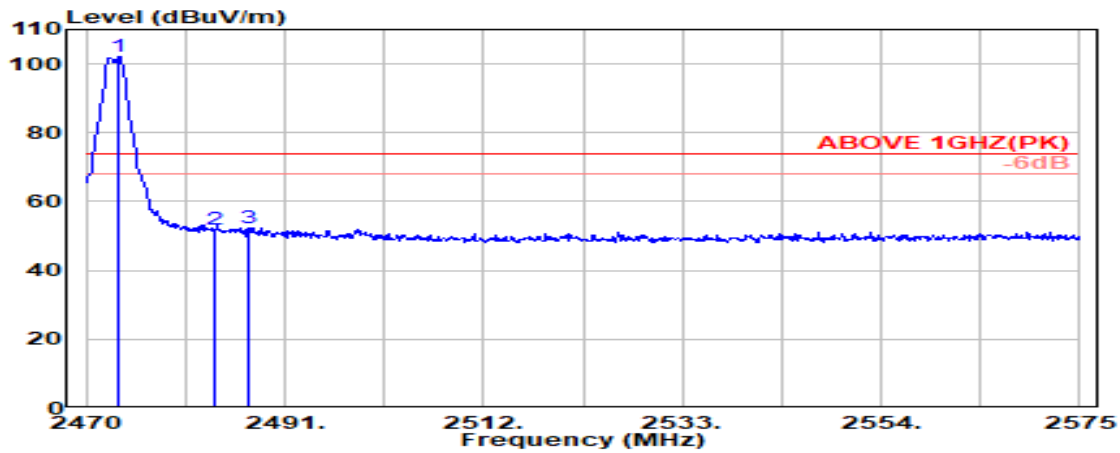


Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2472.940	28.45	6.15	34.45	105.41	105.56	---	---	Average
2483.500	28.47	6.17	34.46	47.74	47.92	54.00	6.08	Average
2484.595	28.47	6.17	34.46	47.49	47.67	54.00	6.33	Average

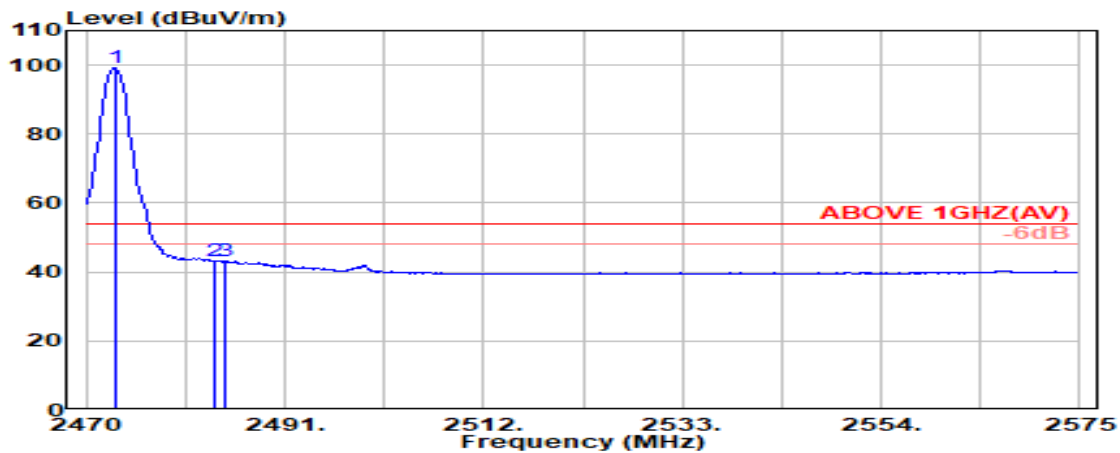
Remark: The “@” means fundamental frequency, it is ignored in this section.

Mode	FASSTest	Frequency	TX 2472.960MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
@ 2473.465	28.45	6.15	34.45	101.87	102.02	---	---	Peak
2483.500	28.47	6.17	34.46	51.63	51.81	74.00	22.19	Peak
2487.115	28.47	6.17	34.46	52.07	52.25	74.00	21.75	Peak



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
@ 2473.045	28.45	6.15	34.45	99.21	99.36	---	---	Average
2483.500	28.47	6.17	34.46	42.95	43.13	54.00	10.87	Average
2484.805	28.47	6.17	34.46	42.92	43.11	54.00	10.89	Average

Remark: The “@” means fundamental frequency, it is ignored in this section.

**A.1.2 Emissions outside the frequency band:**

The emissions (up to 25GHz) not reported for there is no emission be found.

**Test Model: R7214SB, ANT A**

Mode	FASSTest	Frequency	TX 2405.376MHz
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**Antenna at Horizontal Polarization**

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4810.752	32.94	8.54	34.34	43.69	50.83	54.00	3.17	Average
4810.752	32.94	8.54	34.34	46.58	53.73	74.00	20.27	Peak
7216.128	36.20	9.91	34.51	39.62	51.21	54.00	2.79	Average
7216.128	36.20	9.91	34.51	43.32	54.90	74.00	19.10	Peak

**Antenna at Vertical Polarization**

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4810.000	32.94	8.54	34.34	44.76	51.89	54.00	2.11	Peak
7216.128	36.21	9.91	34.52	40.79	52.39	54.00	1.61	Peak

Mode	FASSTest	Frequency	TX 2439.168MHz
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**Antenna at Horizontal Polarization**

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4878.336	33.16	8.63	34.32	44.24	51.71	54.00	2.29	Peak
7317.504	36.60	10.00	34.57	36.92	48.95	54.00	5.05	Peak

**Antenna at Vertical Polarization**

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4878.336	33.16	8.63	34.32	44.39	51.86	54.00	2.14	Peak
7317.504	36.60	10.00	34.57	39.68	51.71	54.00	2.29	Peak

Mode	FASSTest	Frequency	TX 2472.960MHz
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**Antenna at Horizontal Polarization**

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4945.833	33.20	8.73	34.31	42.38	50.00	54.00	4.00	Peak
7418.880	36.54	10.08	34.62	38.01	50.01	54.00	3.99	Peak

**Antenna at Vertical Polarization**

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4945.920	33.20	8.72	34.31	43.85	51.46	54.00	2.54	Peak
7418.333	36.54	10.08	34.62	37.07	49.07	54.00	4.93	Peak

**Test Model: R7214SB, ANT B**

Mode	FASSTest	Frequency	TX 2405.376MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4810.752	32.94	8.54	34.34	41.36	48.51	54.00	5.49	Average
4810.752	32.94	8.54	34.34	47.20	54.34	74.00	19.66	Peak
7216.128	36.20	9.91	34.51	38.32	49.91	54.00	4.09	Average
7216.128	36.20	9.91	34.51	43.49	55.07	74.00	18.93	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4810.752	32.95	8.54	34.34	44.96	52.10	54.00	1.90	Peak
7216.128	36.21	9.91	34.52	40.18	51.77	54.00	2.23	Peak

Mode	FASSTest	Frequency	TX 2439.168MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4878.336	33.16	8.63	34.32	43.38	50.84	54.00	3.16	Peak
7317.000	36.60	10.00	34.57	38.58	50.61	54.00	3.39	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4878.336	33.16	8.63	34.32	44.52	51.98	54.00	2.02	Peak
7317.000	36.60	10.00	34.57	38.72	50.75	54.00	3.25	Peak

Mode	FASSTest	Frequency	TX 2472.960MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4947.500	33.20	8.73	34.31	43.66	51.28	54.00	2.72	Peak
7418.000	36.54	10.08	34.62	36.80	48.80	54.00	5.20	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4945.000	33.20	8.72	34.31	42.91	50.53	54.00	3.47	Peak
7418.000	36.54	10.08	34.62	37.97	49.97	54.00	4.03	Peak

**Test Model: R7314SB, ANT A**

Mode	FASSTest	Frequency	TX 2405.376MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4810.752	32.95	8.54	34.34	42.76	49.91	54.00	4.09	Peak
7216.000	36.20	9.91	34.51	36.79	48.37	54.00	5.63	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4810.752	32.95	8.54	34.34	41.76	48.91	54.00	5.09	Peak
7216.000	36.20	9.91	34.51	35.90	47.49	54.00	6.51	Peak

Mode	FASSTest	Frequency	TX 2439.168MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4878.336	33.16	8.63	34.32	43.01	50.47	54.00	3.53	Peak
7317.000	36.60	10.00	34.57	37.97	49.99	54.00	4.01	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4878.336	33.16	8.63	34.32	42.34	49.80	54.00	4.20	Peak
7317.504	36.60	9.99	34.57	36.75	48.78	54.00	5.22	Peak

Mode	FASSTest	Frequency	TX 2472.960MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4945.000	33.20	8.72	34.31	43.77	51.38	54.00	2.62	Peak
7418.000	36.54	10.08	34.62	35.94	47.94	54.00	6.06	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4945.000	33.20	8.72	34.31	43.52	51.13	54.00	2.87	Peak
7418.000	36.54	10.08	34.62	37.85	49.85	54.00	4.15	Peak

**Test Model: R7314SB, ANT B**

Mode	FASSTest	Frequency	TX 2405.376MHz
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**Antenna at Horizontal Polarization**

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dB $\mu$ V)	Emission Level (dB $\mu$ V/m)	Limits (dB $\mu$ V/m)	Margin (dB)	Detector
4810.000	32.94	8.54	34.34	43.12	50.26	54.00	3.74	Peak
7216.000	36.20	9.91	34.51	36.73	48.32	54.00	5.68	Peak

**Antenna at Vertical Polarization**

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dB $\mu$ V)	Emission Level (dB $\mu$ V/m)	Limits (dB $\mu$ V/m)	Margin (dB)	Detector
4810.000	32.94	8.54	34.34	41.11	48.25	54.00	5.75	Peak
7216.000	36.20	9.91	34.51	37.06	48.65	54.00	5.35	Peak

Mode	FASSTest	Frequency	TX 2439.168MHz
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**Antenna at Horizontal Polarization**

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dB $\mu$ V)	Emission Level (dB $\mu$ V/m)	Limits (dB $\mu$ V/m)	Margin (dB)	Detector
4878.336	33.16	8.63	34.32	43.25	50.72	54.00	3.28	Peak
7317.000	36.60	10.00	34.57	38.75	50.78	54.00	3.22	Peak

**Antenna at Vertical Polarization**

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dB $\mu$ V)	Emission Level (dB $\mu$ V/m)	Limits (dB $\mu$ V/m)	Margin (dB)	Detector
4878.336	33.16	8.63	34.32	41.38	48.84	54.00	5.16	Peak
7317.000	36.60	10.00	34.57	36.89	48.91	54.00	5.09	Peak

Mode	FASSTest	Frequency	TX 2472.960MHz
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**Antenna at Horizontal Polarization**

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dB $\mu$ V)	Emission Level (dB $\mu$ V/m)	Limits (dB $\mu$ V/m)	Margin (dB)	Detector
4945.920	33.20	8.73	34.31	43.30	50.91	54.00	3.09	Peak
7418.000	36.54	10.08	34.62	36.51	48.51	54.00	5.49	Peak

**Antenna at Vertical Polarization**

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dB $\mu$ V)	Emission Level (dB $\mu$ V/m)	Limits (dB $\mu$ V/m)	Margin (dB)	Detector
4945.000	33.20	8.72	34.31	44.47	52.08	54.00	1.92	Peak
7418.000	36.54	10.08	34.62	37.44	49.44	54.00	4.56	Peak

**A.1.3 Emissions in Non-restricted Frequency Bands:**

Pursuant to ANSI C63.10:2013 that emission levels below the FCC 15.209(a)/RSS-Gen Section 8.9 table 4 general radiated emissions limits is not required.



## A.2 DTS/OCCUPIED BANDWIDTH

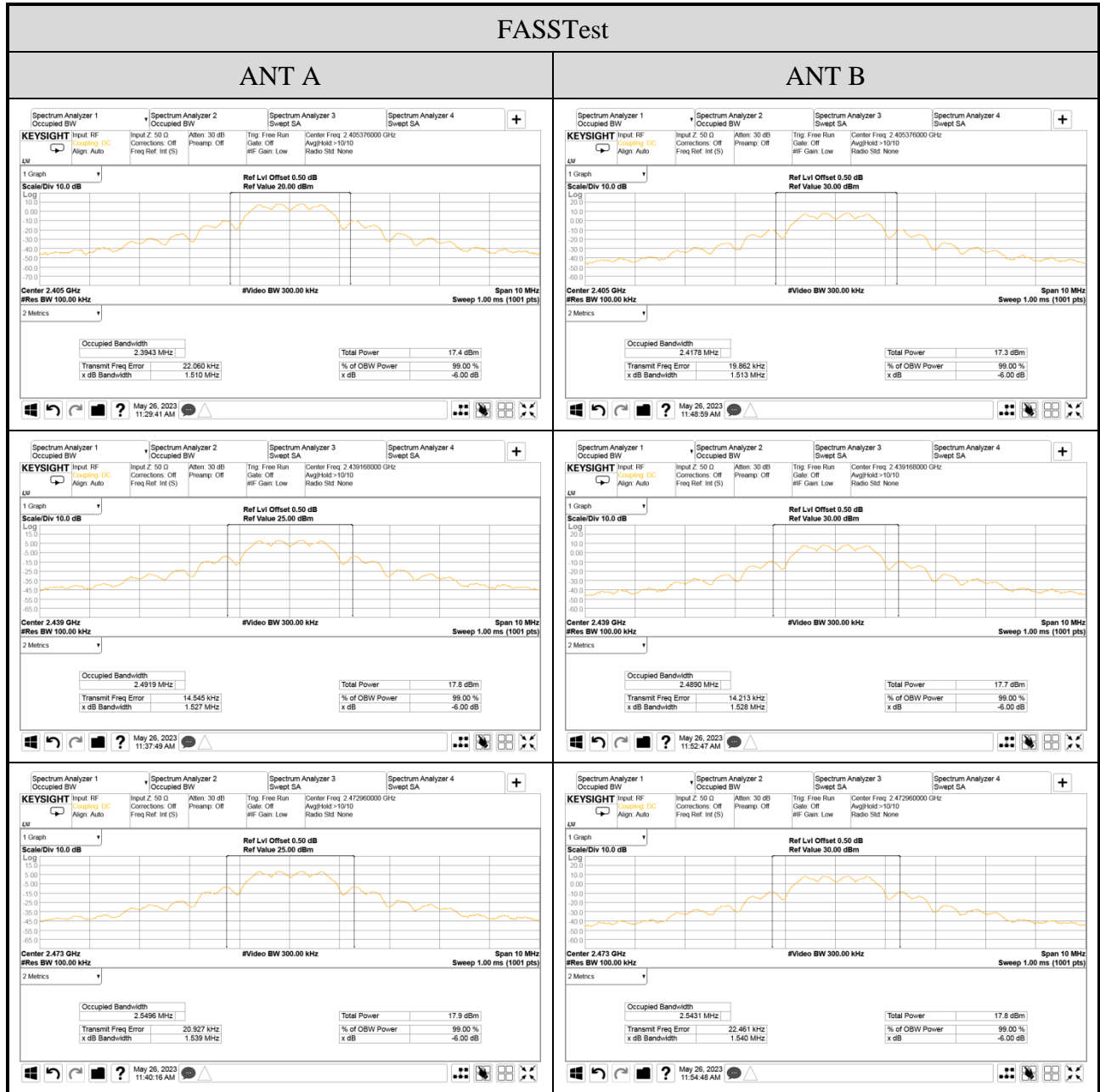
Test Date	2023/05/26	Temp./Hum.	26°C/50%
Cable Loss	0.50dB	Tested By	Harry Huang
Test Voltage	DC 6V (Via Battery)		

### A.2.1 DTS/Occupied Bandwidth Result

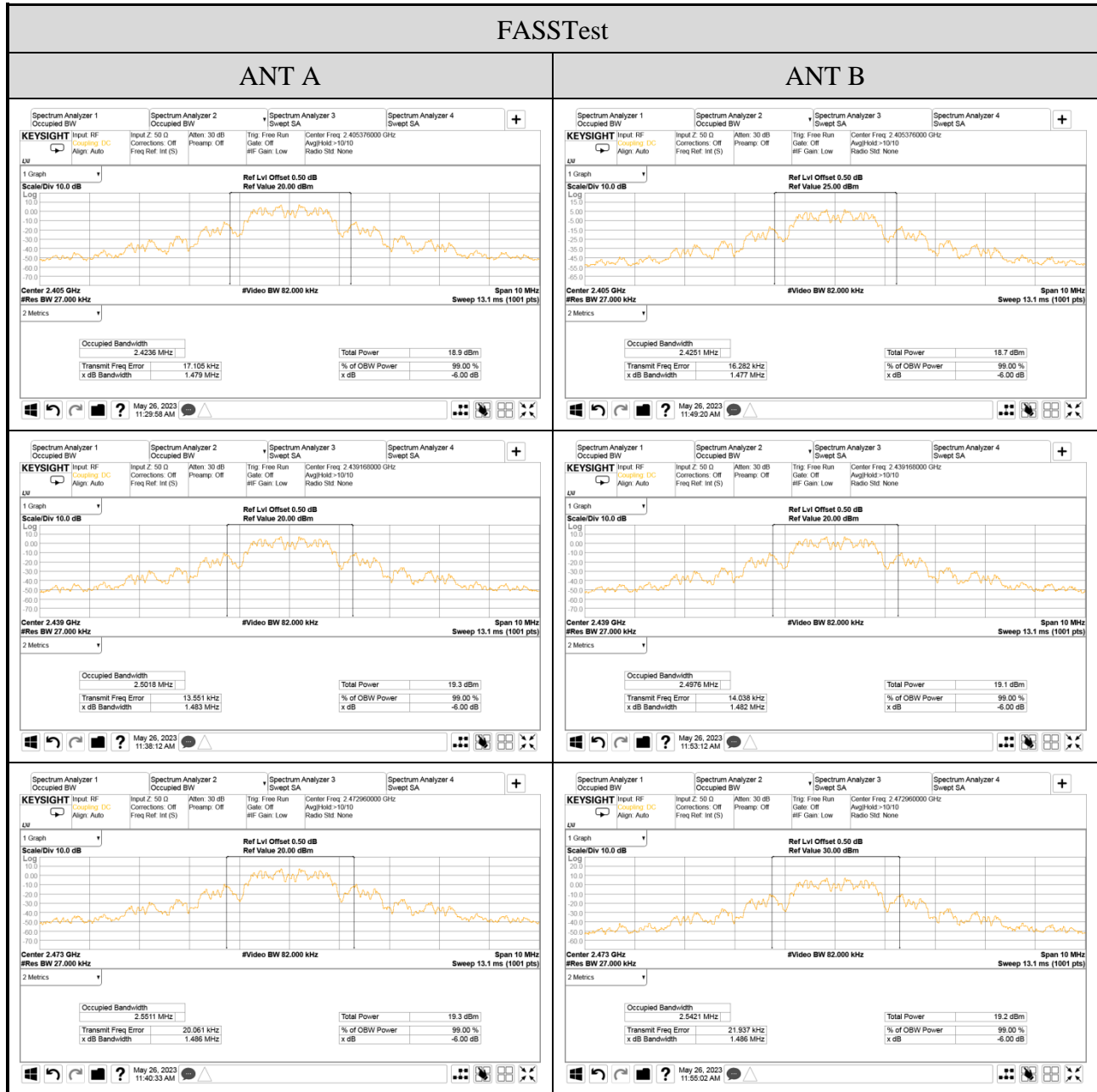
Mode	ANT	Centre Frequency (MHz)	DTS (6dB) Bandwidth (MHz)	Occupied (99%) Bandwidth (MHz)	Limit
FASSTest	ANT A	2405.376	1.510	2.4236	>500kHz
		2439.168	1.527	2.5018	
		2472.960	1.539	2.5511	
FASSTest	ANT B	2405.376	1.513	2.4251	>500kHz
		2439.168	1.528	2.4976	
		2472.960	1.540	2.5421	

A.2.2 Measurement Plots

- DTS (6dB) Bandwidth



● Occupied (99%) Bandwidth



### A.3 MAXIMUM PEAK OUTPUT POWER

Test Date	2023/05/26	Temp./Hum.	26°C/50%
Cable Loss	0.50dB	Tested By	Harry Huang
Test Voltage	DC 6V (Via Battery)		

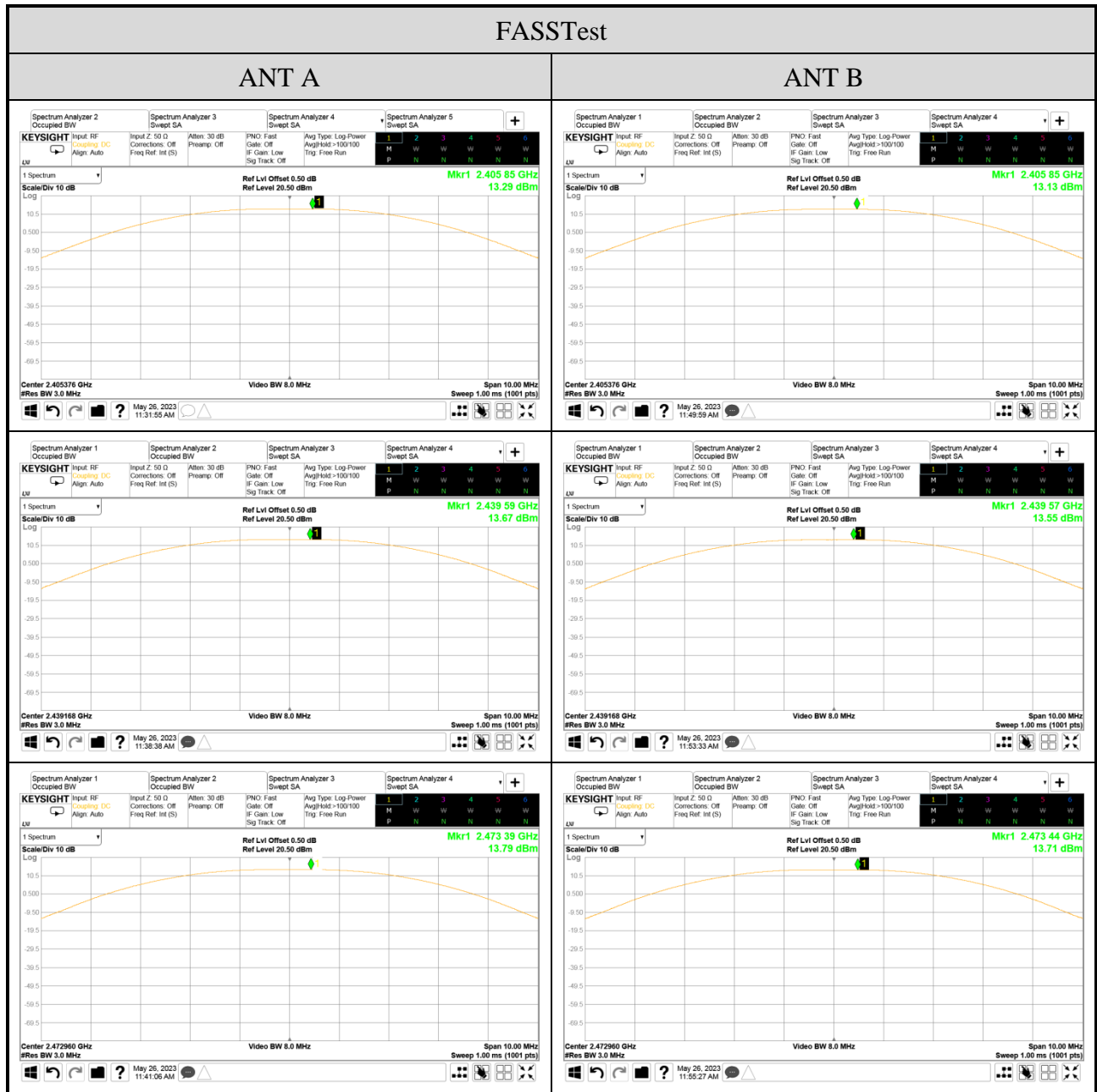
#### A.3.1 Peak Output Power

Mode	ANT	Centre Frequency (MHz)	Peak Output Power (dBm)	Antenna Gain (dBi)	E.I.R.P (dBm) <sup>Note 2</sup>
FASSTest	ANT A	2405.376	13.29	2.10	15.39
		2439.168	13.67	2.10	15.77
		2472.960	13.79	2.10	15.89
FASSTest	ANT B	2405.376	13.12	2.10	15.22
		2439.168	13.55	2.10	15.65
		2472.960	13.71	2.10	15.81

Note: 1. The results have been included cable loss.

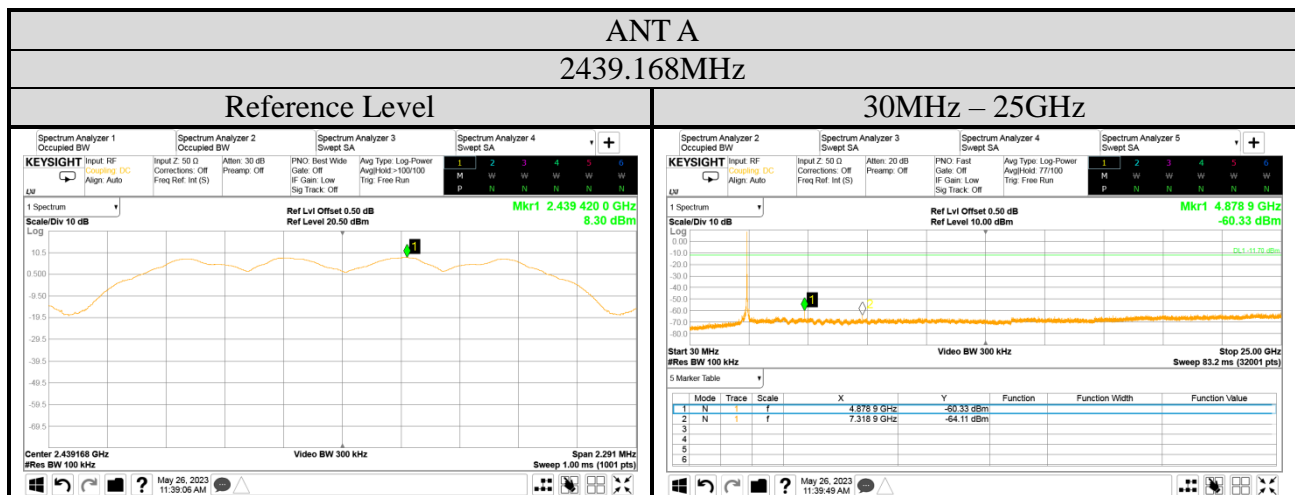
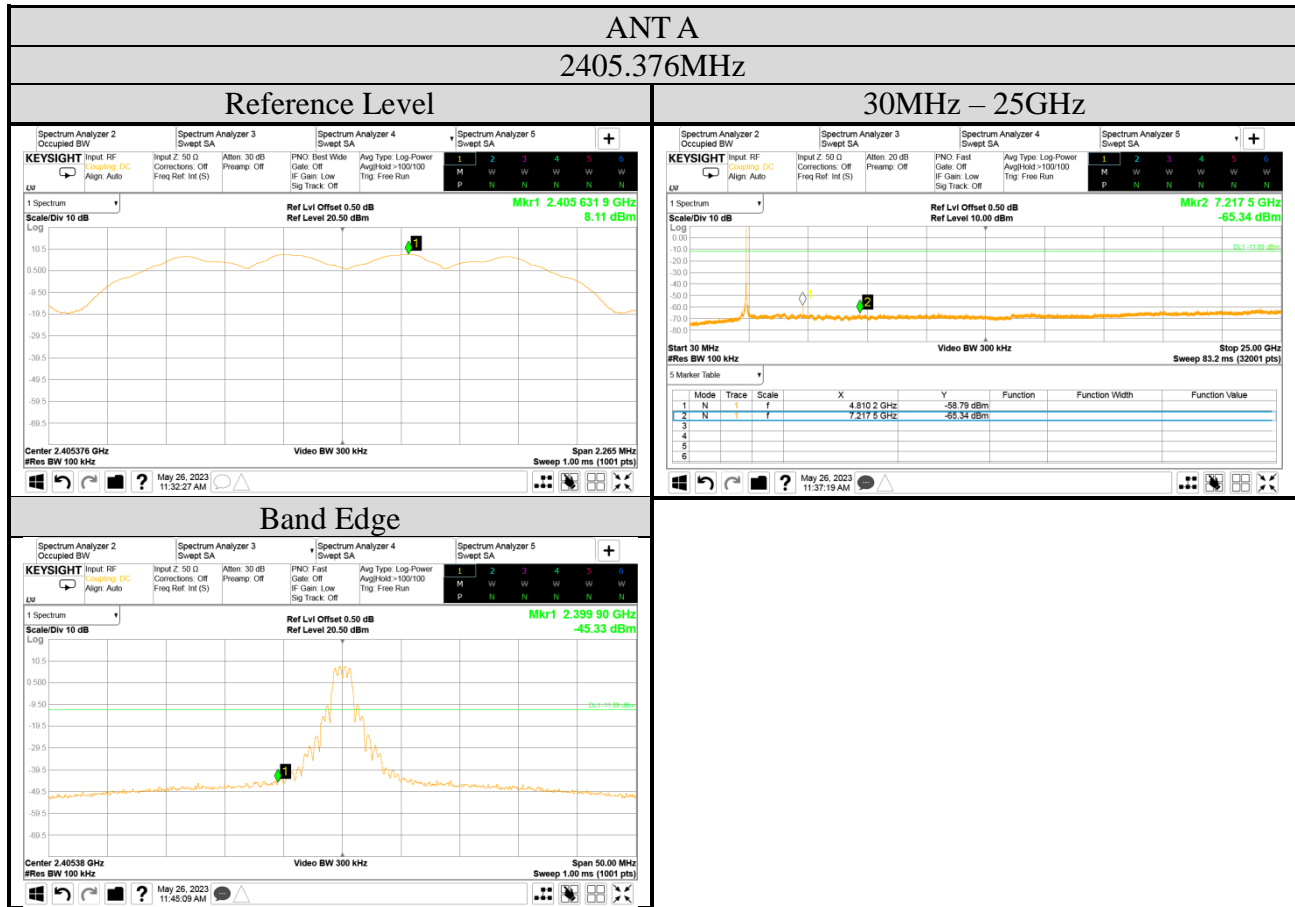
2. E.I.R.P.= The Peak Output Power (dBm)+ Antenna Gain (dBi).

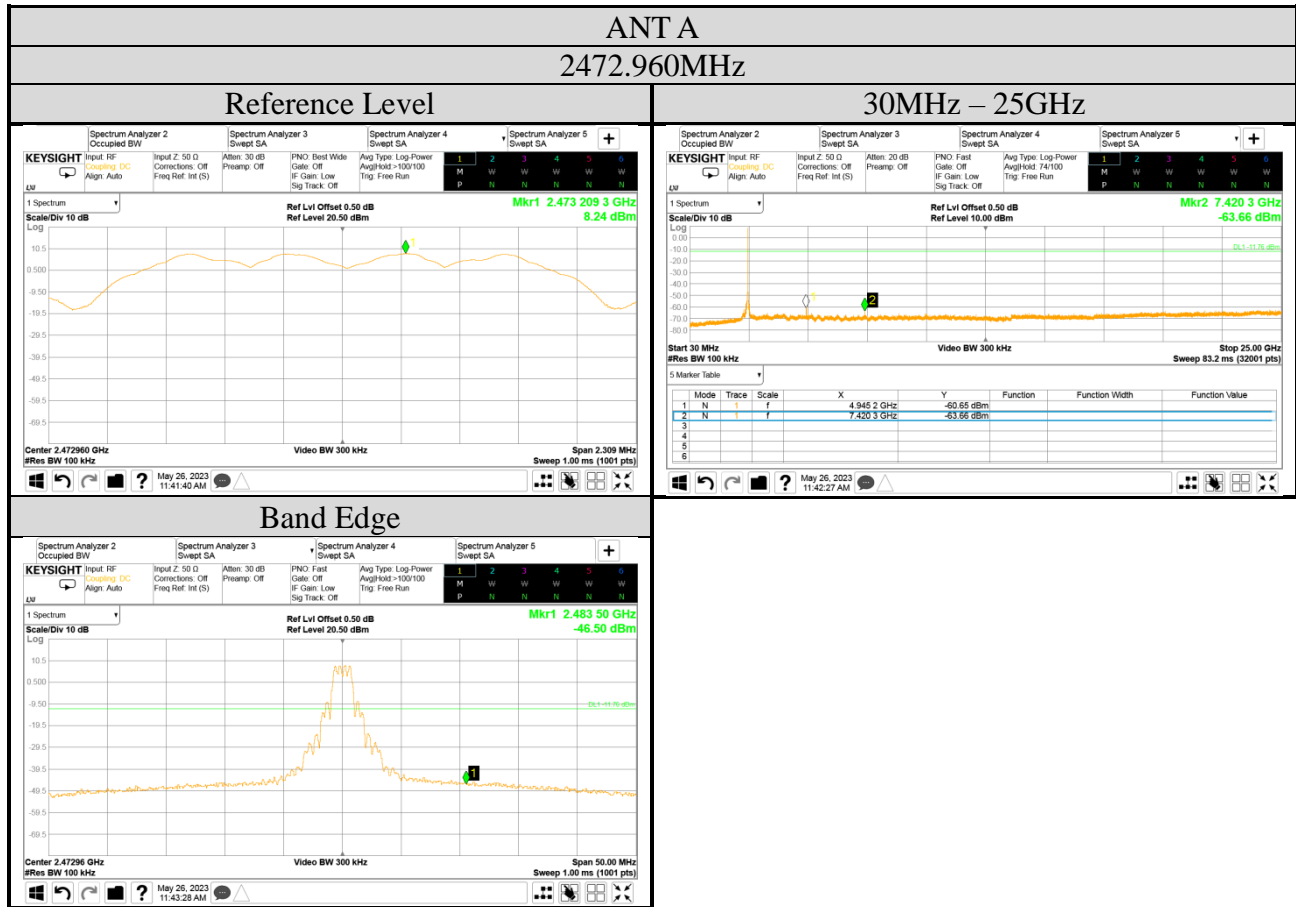
A.3.2 Measurement Plots

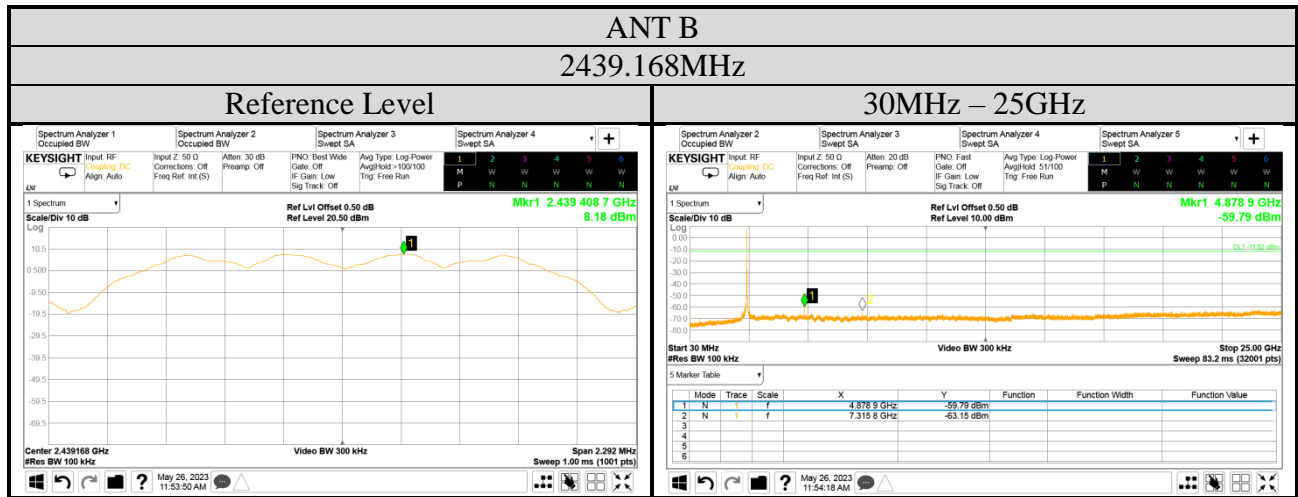
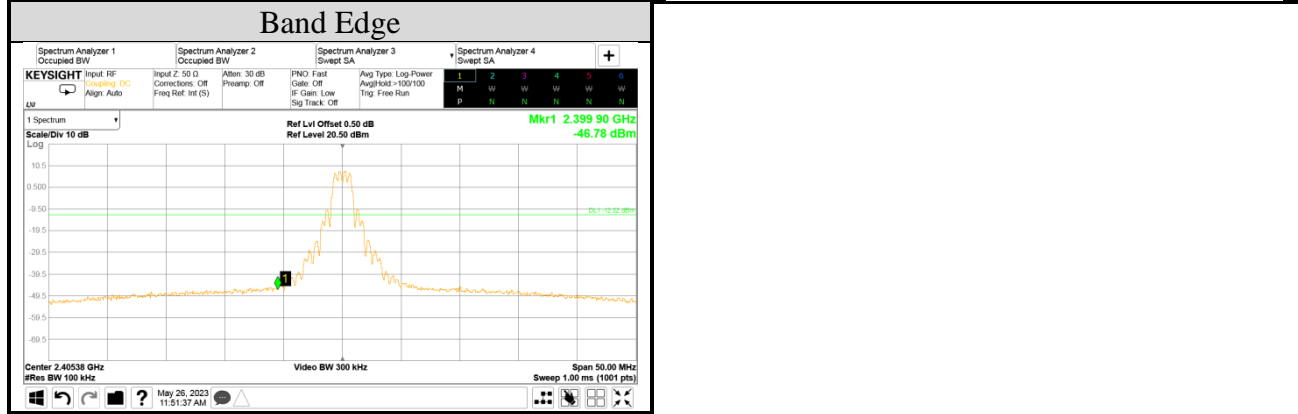
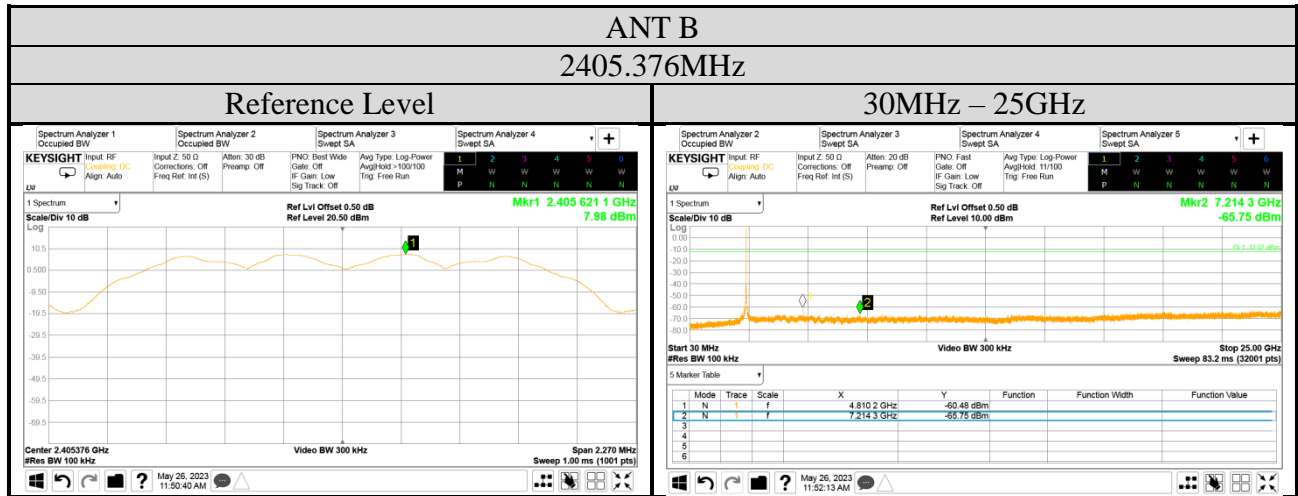


## A.4 EMISSION LIMITATIONS

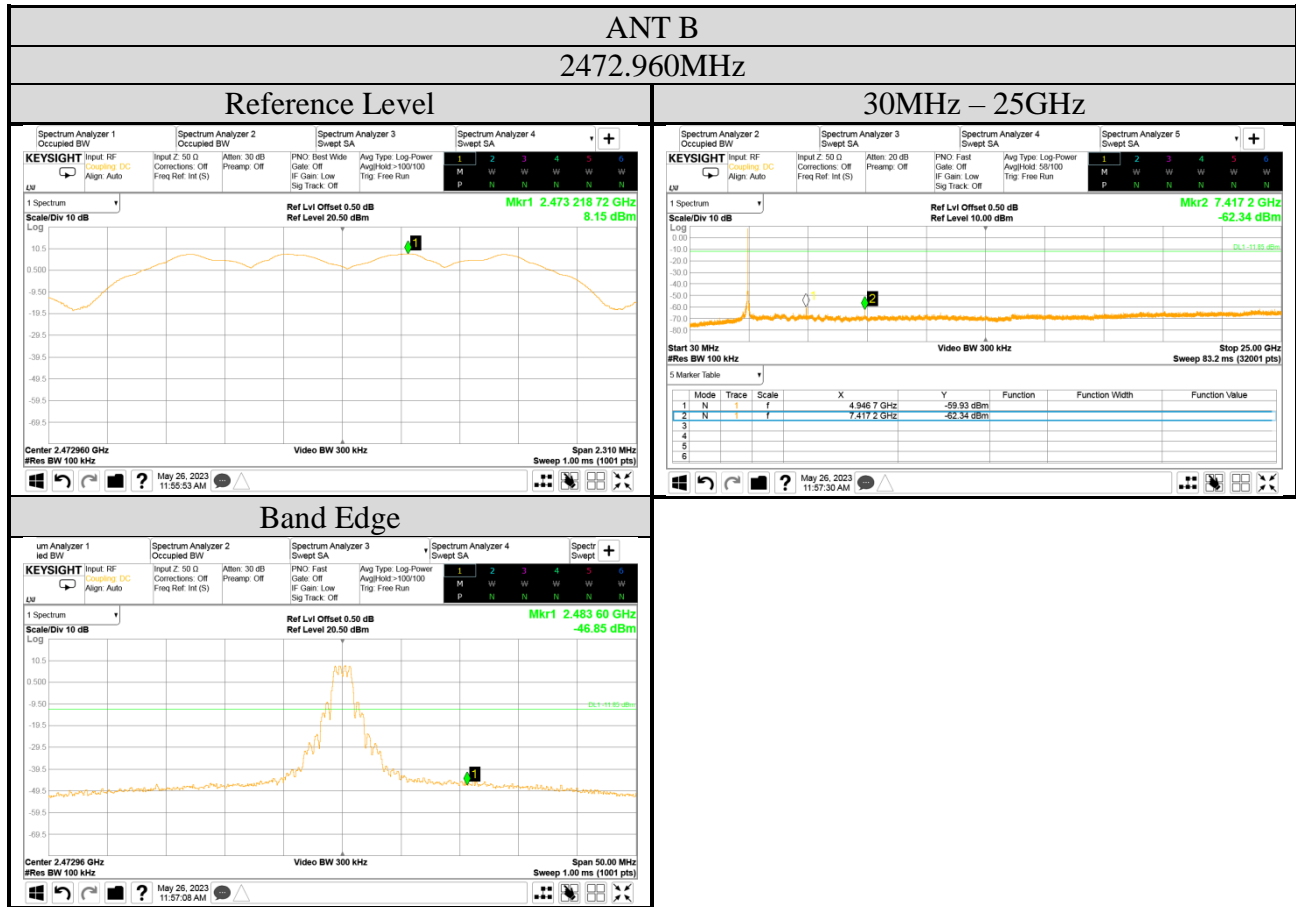
Test Date	2023/05/26	Temp./Hum.	26°C /50%
Cable Loss	0.50dB	Tested By	Harry Huang
Test Voltage	DC 6V (Via Battery)	Mode	FASSTest
Simultaneous Factor $10 \log(N_{ANT})$ (Note: where $N_{ANT}$ is the number of outputs)			0dB











## A.5 POWER SPECTRAL DENSITY

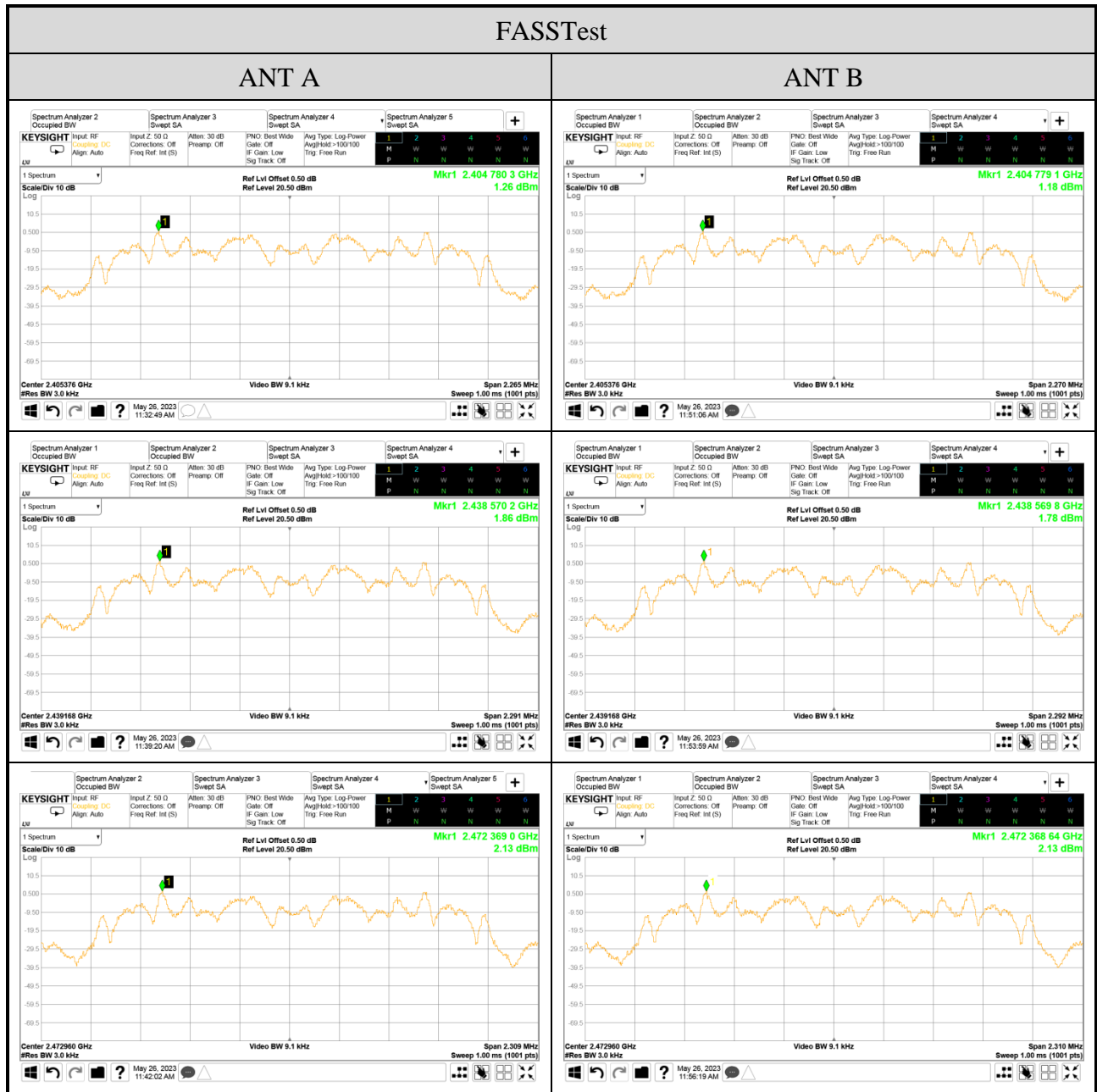
Test Date	2023/05/26	Temp./Hum.	26°C/50%
Cable Loss	0.50dB	Tested By	Harry Huang
Test Voltage	DC 6V (Via Battery)		

### A.5.1 Power Spectral Density Result

Mode	ANT	Centre Frequency (MHz)	Power Spectral Density (dBm)	Limit
FASSTest	ANT A	2405.376	1.26	<8 dBm/3kHz
		2439.168	1.86	
		2472.960	2.13	
FASSTest	ANT B	2405.376	1.18	
		2439.168	1.78	
		2472.960	2.13	

Note: All results have been included cable loss.

A.5.2 Measurement Plots



Note: All results have been included cable loss.