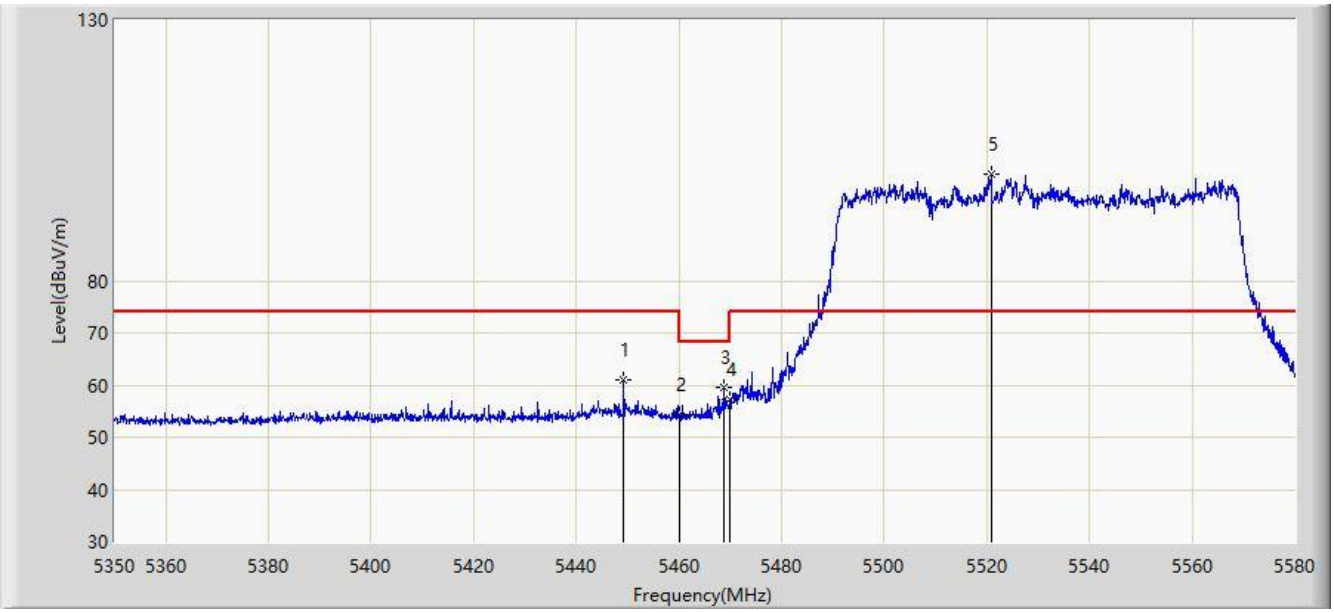
Site: AC2	Time: 2020/07/20 - 23:15
Limit: FCC_Part15.209_RE(3m)	Engineer: Dillon Diao
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: GigaSpire BLAST	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ax-HE80 at channel 5530MHz - Beamforming mode	

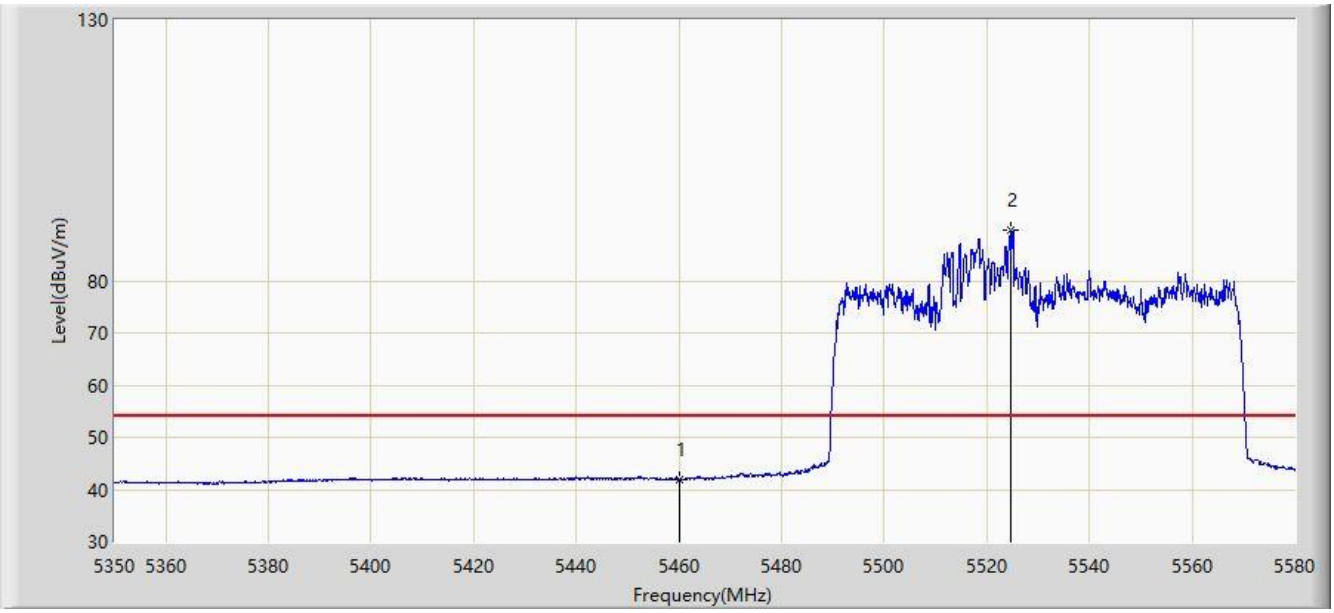


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5449.245	60.913	60.561	-13.087	74.000	0.352	PK
2			5460.000	54.207	53.928	-19.793	74.000	0.279	PK
3			5468.795	59.478	59.218	-8.722	68.200	0.260	PK
4			5470.000	57.348	57.091	-10.852	68.200	0.257	PK
5		*	5520.890	100.532	99.791	N/A	N/A	0.741	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Site: AC2	Time: 2020/07/20 - 23:16
Limit: FCC_Part15.209_RE(3m)	Engineer: Dillon Diao
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: GigaSpire BLAST	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ax-HE80 at channel 5530MHz - Beamforming mode	

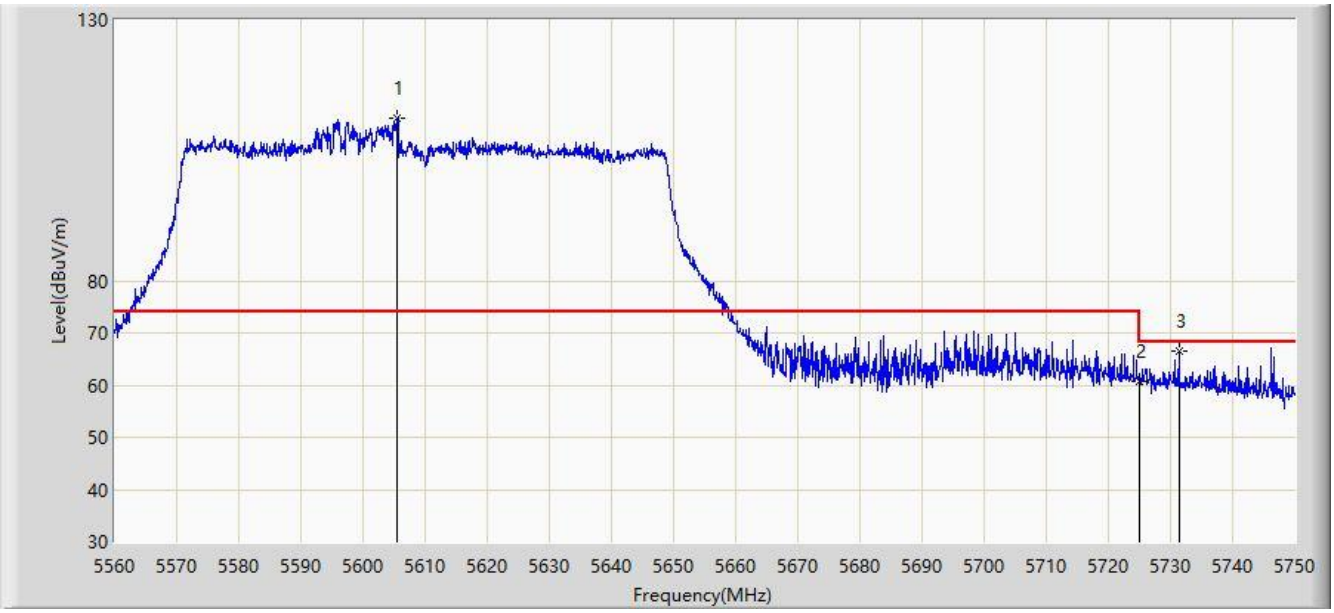


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5460.000	41.899	41.620	-12.101	54.000	0.279	AV
2		*	5524.685	89.696	88.917	N/A	N/A	0.780	AV

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Site: AC2	Time: 2020/07/20 - 23:20
Limit: FCC_Part15.209_RE(3m)	Engineer: Dillon Diao
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: GigaSpire BLAST	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ax-HE80 at channel 5610MHz - Beamforming mode	

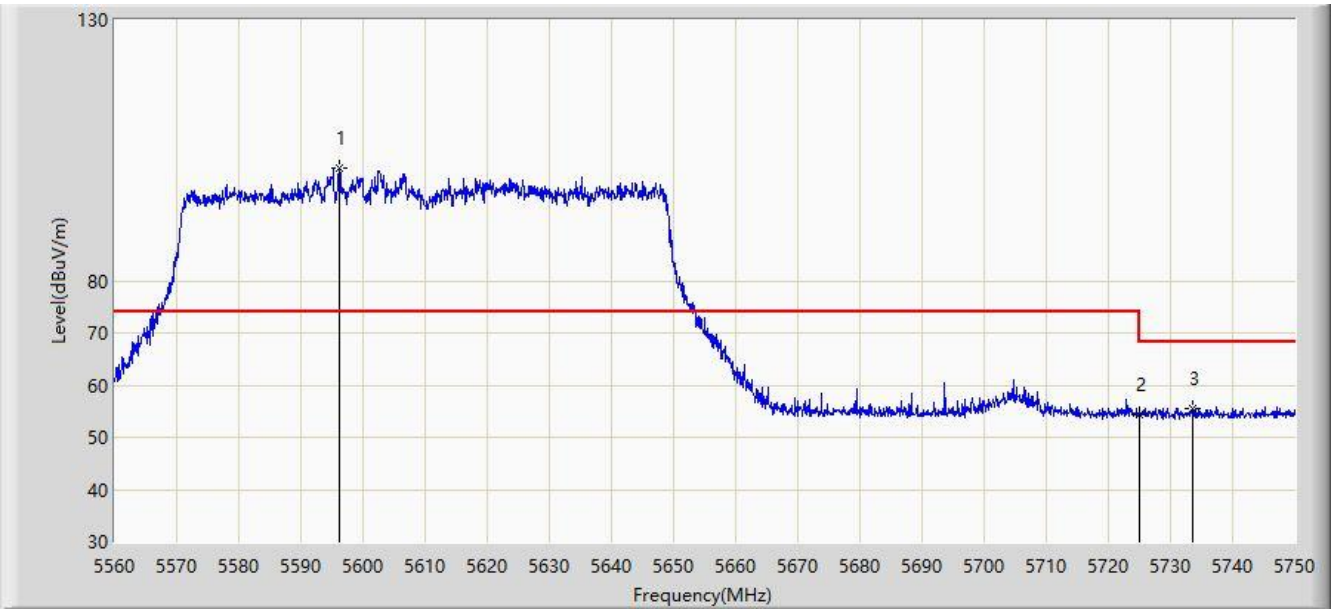


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	5605.505	111.227	110.300	N/A	N/A	0.927	PK
2			5725.000	60.754	59.321	-7.446	68.200	1.433	PK
3			5731.380	66.587	65.188	-1.613	68.200	1.398	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Site: AC2	Time: 2020/07/20 - 23:23
Limit: FCC_Part15.209_RE(3m)	Engineer: Dillon Diao
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: GigaSpire BLAST	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ax-HE80 at channel 5610MHz - Beamforming mode	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	5596.290	101.502	100.695	N/A	N/A	0.806	PK
2			5725.000	54.409	52.976	-13.791	68.200	1.433	PK
3			5733.660	55.546	54.157	-12.654	68.200	1.390	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

5.9. AC Conducted Emissions Measurement

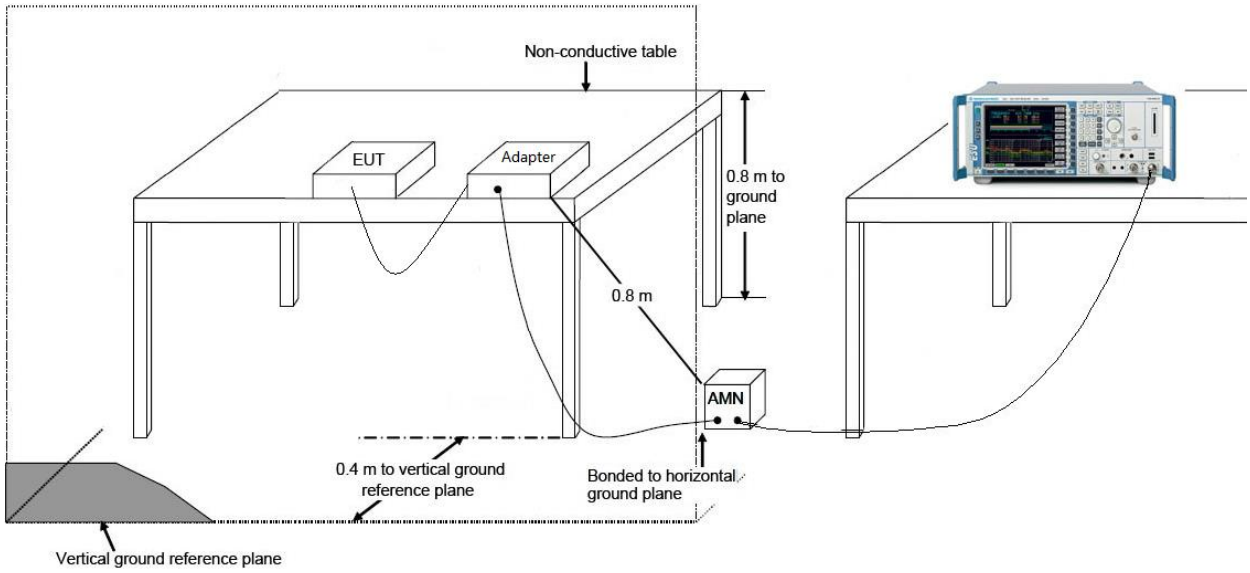
5.9.1. Test Limit

FCC Part 15.207 Limits		
Frequency (MHz)	QP (dBμV)	AV (dBμV)
0.15 - 0.50	66 - 56	56 – 46
0.50 - 5.0	56	46
5.0 - 30	60	50

Note 1: The lower limit shall apply at the transition frequencies.

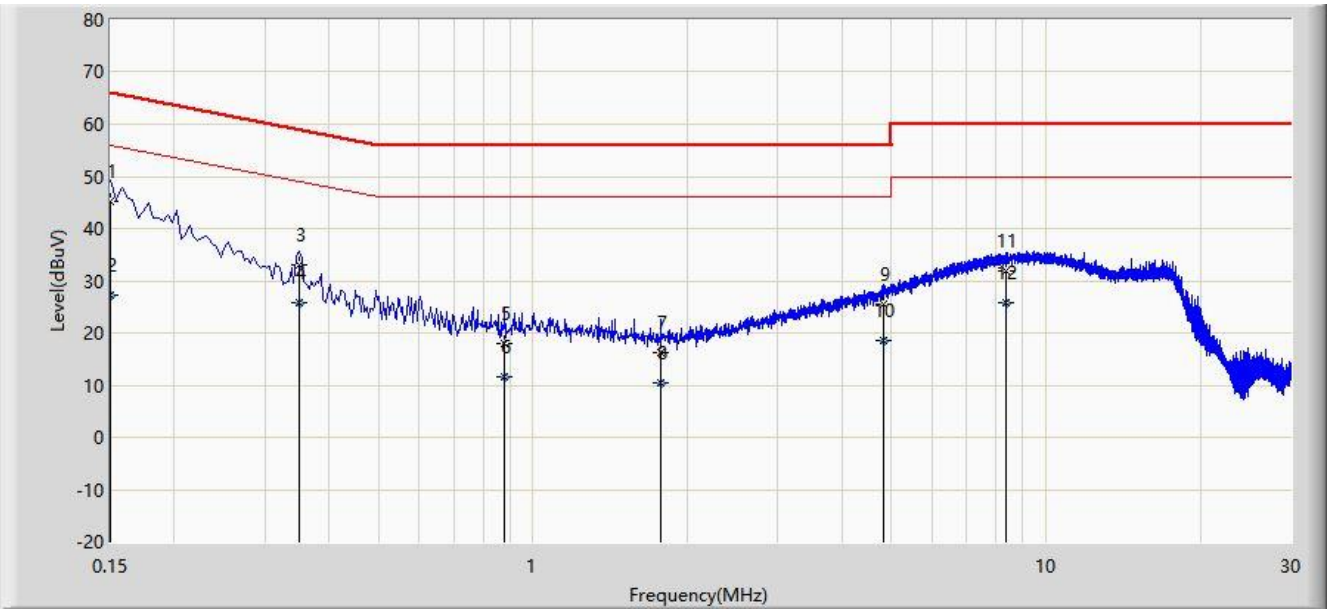
Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz.

5.9.2. Test Setup



5.9.3.Test Result

Site: SR2	Time: 2020/08/13 - 03:17
Limit: FCC_Part15.207_CE_AC Power_ClassB	Engineer: Dillon Diao
Probe: ENV216_101683_Filter On	Polarity: Line
EUT: GigaSpire BLAST	Power: AC 120V/60Hz
Note: Test Mode 1	

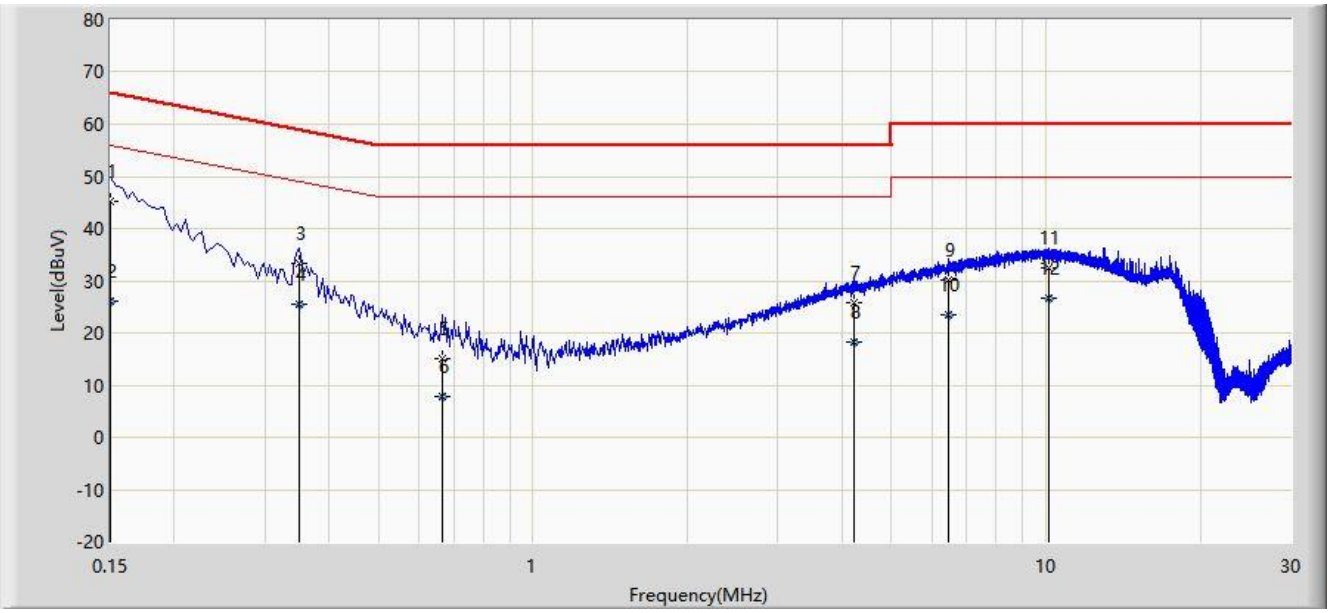


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV)	Factor	Type
1		*	0.150	45.341	35.728	-20.659	66.000	9.613	QP
2			0.150	27.298	17.685	-28.702	56.000	9.613	AV
3			0.350	32.999	23.330	-25.964	58.962	9.668	QP
4			0.350	25.829	16.160	-23.134	48.962	9.668	AV
5			0.882	17.905	8.164	-38.095	56.000	9.740	QP
6			0.882	11.695	1.955	-34.305	46.000	9.740	AV
7			1.774	16.352	6.593	-39.648	56.000	9.759	QP
8			1.774	10.305	0.546	-35.695	46.000	9.759	AV
9			4.818	25.495	15.639	-30.505	56.000	9.856	QP
10			4.818	18.636	8.779	-27.364	46.000	9.856	AV
11			8.350	31.853	21.853	-28.147	60.000	10.000	QP
12			8.350	25.711	15.711	-24.289	50.000	10.000	AV

Note: Measure Level (dBμV) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + LISN Factor (dB).

Site: SR2	Time: 2020/08/13 - 03:21
Limit: FCC_Part15.207_CE_AC Power_ClassB	Engineer: Dillon Diao
Probe: ENV216_101683_Filter On	Polarity: Neutral
EUT: GigaSpire BLAST	Power: AC 120V/60Hz
Note: Test Mode 1	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV)	Factor	Type
1		*	0.150	45.078	35.475	-20.922	66.000	9.603	QP
2			0.150	26.217	16.614	-29.783	56.000	9.603	AV
3			0.350	33.472	23.814	-25.490	58.962	9.658	QP
4			0.350	25.609	15.950	-23.354	48.962	9.658	AV
5			0.666	14.986	5.276	-41.014	56.000	9.710	QP
6			0.666	7.952	-1.758	-38.048	46.000	9.710	AV
7			4.222	25.802	15.973	-30.198	56.000	9.829	QP
8			4.222	18.319	8.490	-27.681	46.000	9.829	AV
9			6.458	30.237	20.317	-29.763	60.000	9.920	QP
10			6.458	23.608	13.687	-26.392	50.000	9.920	AV
11			10.134	32.575	22.519	-27.425	60.000	10.056	QP
12			10.134	26.746	16.690	-23.254	50.000	10.056	AV

Note: Measure Level (dBμV) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + LISN Factor (dB).

6. Conclusion

The data collected relate only the item(s) tested and show that the device is in compliance with Part 15E of the FCC Rules.

The End

Appendix A - Test Setup Photograph

Refer to “2105RSU028-UT” file.

Appendix B - EUT Photograph

Refer to “2105RSU028-UE” file.