

Test Engr: Thanh Nguyen
Project #: 03U1919
Company: ALVARION
EUT Descrp.: SU-I-900
EUT M/N: SU-I-900 FCC ID LKT-ASU-900
Test Target: FCC Part 15.247
Mode Oper: Transmit 904MHz, Low Channel.

Test Equipment:

EMCO Horn 1-18GHz	Pre-amplifier 1-26GHz	Spectrum Analyzer	Horn > 18GHz
173; S/N: 6717 @3m	Miteq NSP2600-44	8593EM Analyzer	

Hi Frequency Cables

☒ (2 ft)	☐ (2 ~ 3 ft)	☐ (4 ~ 6 ft)	☒ (12 ft)
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Peak Measurements:
1 MHz Resolution Bandwidth
1MHz Video Bandwidth

Average Measurements:
1 MHz Resolution Bandwidth
10Hz Video Bandwidth

f GHz	Dist feet	Read Pk dBuV	Read Avg. dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	HPF	Peak dBuV/m	Avg dBuV/m	Pk Lim dBuV/m	Avg Lim dBuV/m	Pk Mar dB	Avg Mar dB	Notes
2.719	9.8	44.2	31.4	30.0	1.8	-36.3	0.0	1.0	40.7	27.8	74.0	54.0	-33.3	-26.2	Noise Floor
3.616	9.8	63.2	49.0	31.8	2.4	-36.2	0.0	1.0	62.2	48.0	74.0	54.0	-11.8	-6.0	V
4.520	9.8	58.1	44.1	33.1	3.0	-36.1	0.0	1.0	59.0	45.1	74.0	54.0	-15.0	-8.9	V
5.428	9.8	44.6	30.8	33.9	3.6	-36.1	0.0	1.0	46.9	33.1	74.0	54.0	-27.1	-20.9	V
3.616	9.8	50.9	36.7	31.8	2.4	-36.2	0.0	1.0	49.9	35.7	74.0	54.0	-24.1	-18.3	H
4.520	9.8	43.9	30.8	33.1	3.0	-36.1	0.0	1.0	44.8	31.7	74.0	54.0	-29.2	-22.3	Noise Flor
No more noise signal above the system noise floor up to 9.28GHz															
f	Measurement Frequency					Amp	Preamp Gain					Avg Lim	Average Field Strength Limit		
Dist	Distance to Antenna					D Corr	Distance Correct to 3 meters					Pk Lim	Peak Field Strength Limit		
Read	Analyzer Reading					Avg	Average Field Strength @ 3 m					Avg Mar	Margin vs. Average Limit		
AF	Antenna Factor					Peak	Calculated Peak Field Strength					Pk Mar	Margin vs. Peak Limit		
CL	Cable Loss					HPF	High Pass Filter								

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EUT Descrp.: SU-I-900
EUT M/N: SU-I-900 FCC ID LKT-ASU-900
Test Target: FCC Part 15.247
Mode Oper: Transmit at High Channel 926MHz

Test Equipment:

EMCO Horn 1-18GHz	Pre-amplifier 1-26GHz	Spectrum Analyzer	Horn > 18GHz
173; S/N: 6717 @3m	Miteq NSP2600-44	8593EM Analyzer	

Hi Frequency Cables

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Peak Measurements:
1 MHz Resolution Bandwidth
1MHz Video Bandwidth

Average Measurements:
1 MHz Resolution Bandwidth
10Hz Video Bandwidth

f GHz	Dist feet	Read Pk dBuV	Read Avg. dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	HPF	Peak dBuV/m	Avg dBuV/m	Pk Lim dBuV/m	Avg Lim dBuV/m	Pk Mar dB	Avg Mar dB	Notes
2.778	9.8	45.0	33.5	30.1	1.8	-36.3	0.0	1.0	41.7	30.1	74.0	54.0	-32.3	-23.9	V
3.660	9.8	64.7	50.8	31.9	2.4	-36.2	0.0	1.0	63.9	49.9	74.0	54.0	-10.1	-4.1	V
4.630	9.8	53.9	40.1	33.2	3.1	-36.1	0.0	1.0	55.0	41.2	74.0	54.0	-19.0	-12.8	V
5.556	9.8	42.1	31.2	34.0	3.7	-36.2	0.0	1.0	44.6	33.7	74.0	54.0	-29.4	-20.3	V
3.704	9.8	55.0	42.2	32.0	2.5	-36.2	0.0	1.0	54.3	41.4	74.0	54.0	-19.7	-12.6	H
4.630	9.8	46.6	34.5	33.2	3.1	-36.1	0.0	1.0	47.8	35.6	74.0	54.0	-26.2	-18.4	H
5.556	9.8	43.2	30.9	34.0	3.7	-36.2	0.0	1.0	45.6	33.3	74.0	54.0	-28.4	-20.7	Noise Floor
No more noise signal above the system noise floor up to 9.28GHz															
f	Measurement Frequency					Amp	Preamp Gain					Avg Lim	Average Field Strength Limit		
Dist	Distance to Antenna					D Corr	Distance Correct to 3 meters					Pk Lim	Peak Field Strength Limit		
Read	Analyzer Reading					Avg	Average Field Strength @ 3 m					Avg Mar	Margin vs. Average Limit		
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CL	Cable Loss					HPF	High Pass Filter								

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Company: ALVARION
EUT Descr.: SU-I-900
EUT M/N: SU-I-900 FCC ID LKT-ASU-900
Test Target: FCC Part 15.247
Mode Oper: Transmit at MID Channel 915MHz

Test Equipment:

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3.660	9.8	59.3	46.9	31.9	2.4	-36.2	0.0	1.0	58.4	46.0	74.0	54.0	-15.6	-8.0	V
4.575	9.8	56.1	42.5	33.1	3.1	-36.1	0.0	1.0	57.1	43.5	74.0	54.0	-16.9	-10.5	V
5.490	9.8	42.1	31.2	33.9	3.7	-36.2	0.0	1.0	44.5	33.6	74.0	54.0	-29.5	-20.4	V
3.660	9.8	43.4	31.7	31.9	2.4	-36.2	0.0	1.0	42.5	30.9	74.0	54.0	-31.5	-23.1	H
4.575	9.8	50.2	36.9	33.1	3.1	-36.1	0.0	1.0	51.2	38.0	74.0	54.0	-22.8	-16.0	H
5.490	9.8	40.7	30.6	33.9	3.7	-36.2	0.0	1.0	43.1	33.0	74.0	54.0	-30.9	-21.0	Noise Floor
No more noise signal above the system noise floor up to 9.28GHz															
f	Measurement Frequency					Amp	Preamp Gain					Avg Lim	Average Field Strength Limit		
Dist	Distance to Antenna					D Corr	Distance Correct to 3 meters					Pk Lim	Peak Field Strength Limit		
Read	Analyzer Reading					Avg	Average Field Strength @ 3 m					Avg Mar	Margin vs. Average Limit		
AF	Antenna Factor					Peak	Calculated Peak Field Strength					Pk Mar	Margin vs. Peak Limit		
CL	Cable Loss					HPF	High Pass Filter								