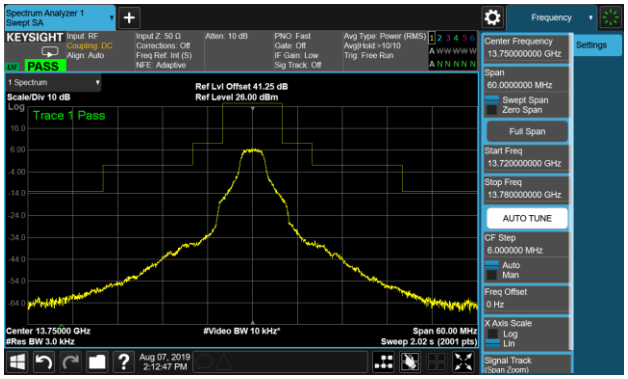
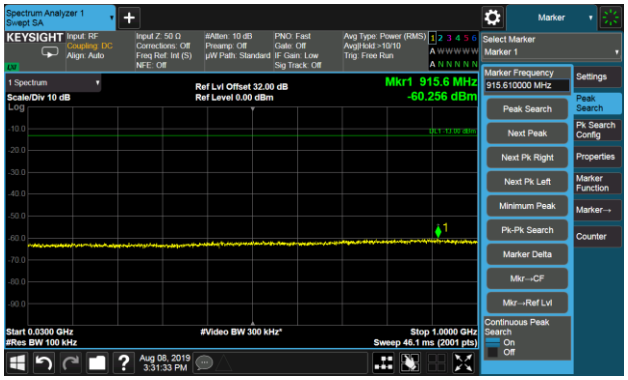
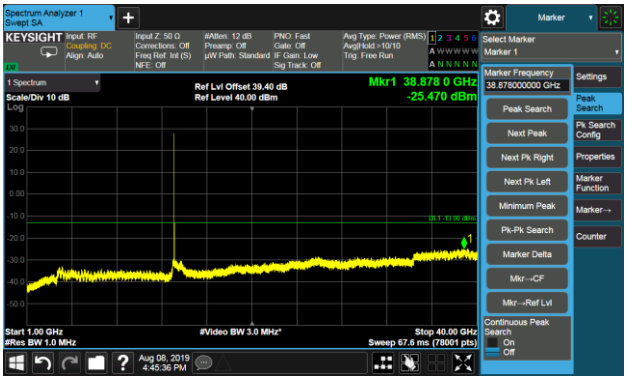
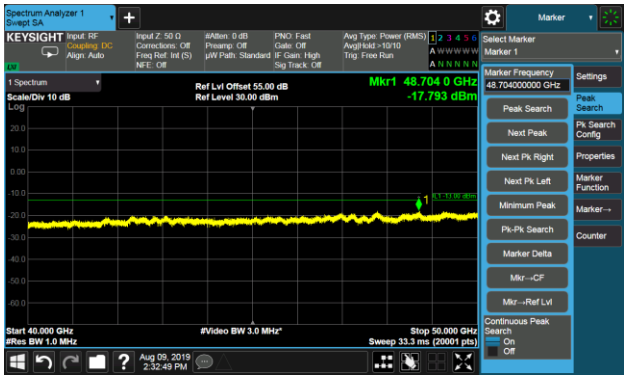
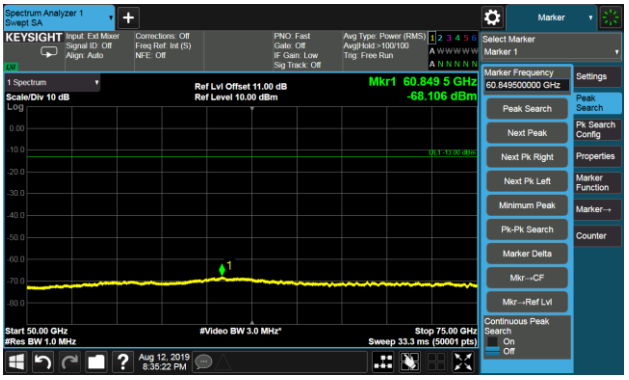
21/44 OQPSK (2863.636kbps) - 13750MHz - Unwanted Emission at Antenna Terminal	
In-band Mask	9kHz - 30MHz
	
30MHz - 1GHz	1GHz - 40GHz
	
40GHz - 50GHz	50GHz - 75GHz
	

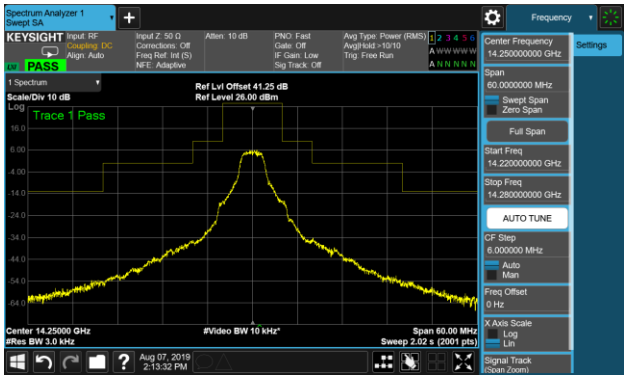
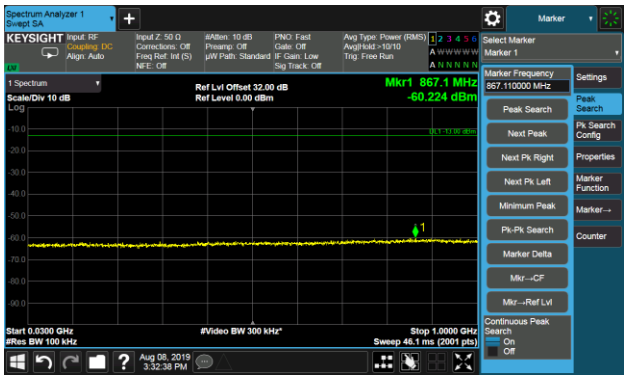
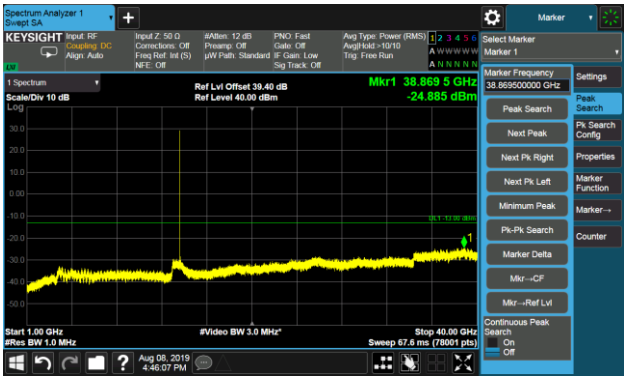
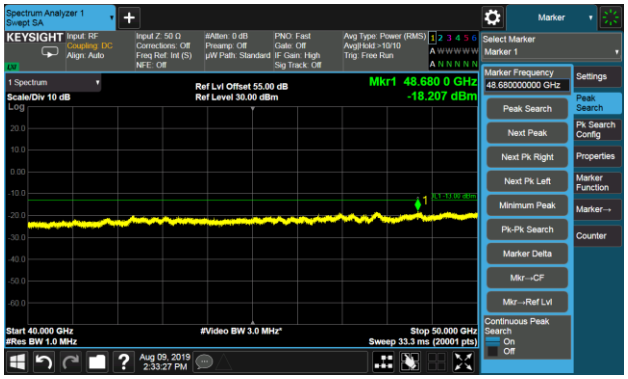
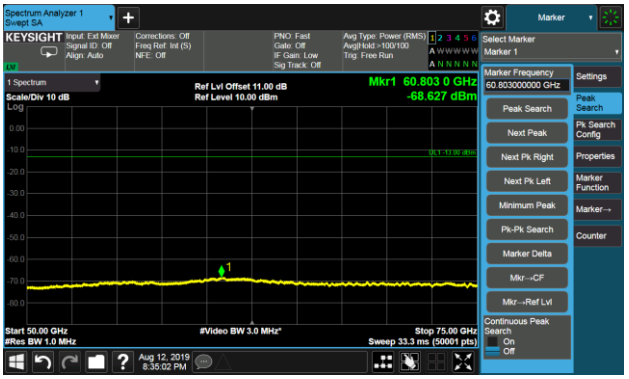
Note 1: Authorization Bandwidth = 8MHz.

Note 2: Emission limits are calculated based on following:

For 50% - 100% of Authorization Bandwidth = 34.23 - 25 = 9.23dBm;

For 100% - 250% of Authorization Bandwidth = 34.23 - 35 = -0.77dBm;

For above 250% of Authorization Bandwidth = 34.23 - [43 + 10 $\log_{10}$ (2.649)] = -13dBm.

21/44 OQPSK (2863.636kbps) - 14250MHz - Unwanted Emission at Antenna Terminal	
In-band Mask	9kHz - 30MHz
	
30MHz - 1GHz	1GHz - 40GHz
	
40GHz - 50GHz	50GHz - 75GHz
	

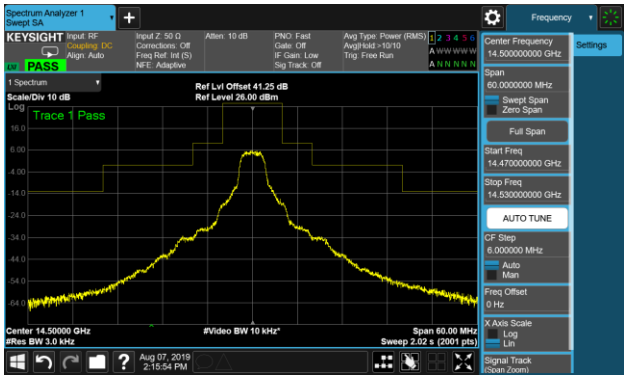
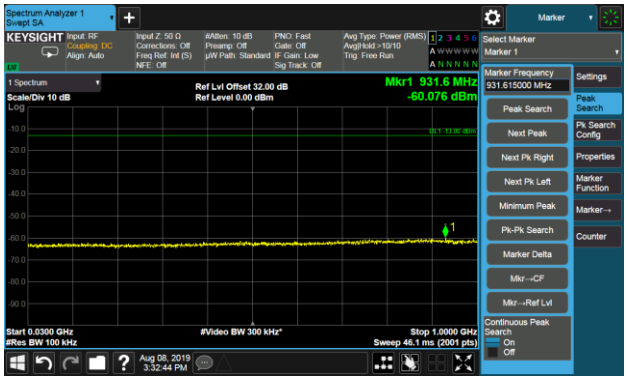
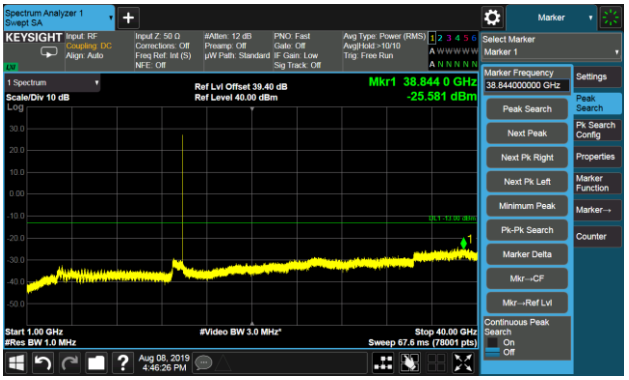
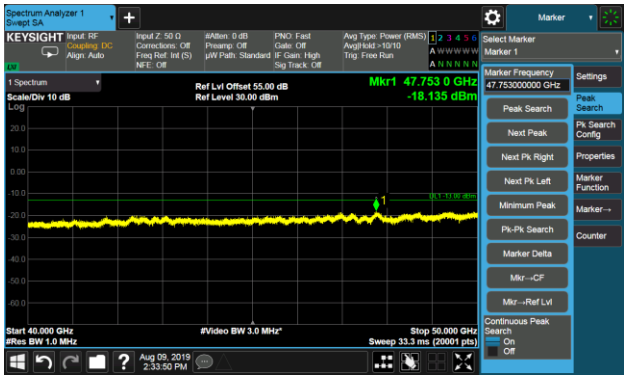
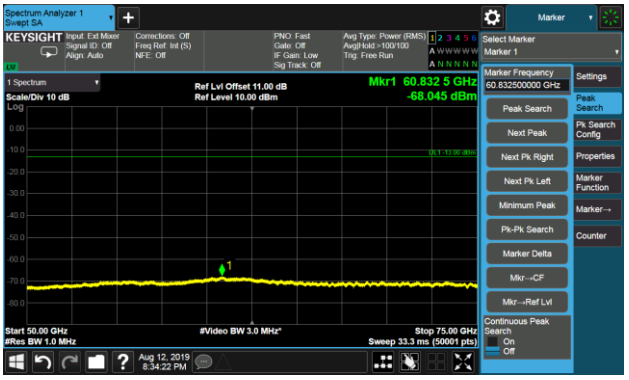
Note 1: Authorization Bandwidth = 8MHz.

Note 2: Emission limits are calculated based on following:

For 50% - 100% of Authorization Bandwidth = 35.06 - 25 = 10.06dBm;

For 100% - 250% of Authorization Bandwidth = 35.06 - 35 = 0.06dBm;

For above 250% of Authorization Bandwidth = 35.06 - [43 + 10 $\log_{10}$ (3.206)] = -13dBm.

21/44 OQPSK (2863.636kbps) - 14500MHz - Unwanted Emission at Antenna Terminal	
In-band Mask	9kHz - 30MHz
	
30MHz - 1GHz	1GHz - 40GHz
	
40GHz - 50GHz	50GHz - 75GHz
	

Note 1: Authorization Bandwidth = 8MHz.

Note 2: Emission limits are calculated based on following:

For 50% - 100% of Authorization Bandwidth = 34.20 - 25 = 9.20dBm;

For 100% - 250% of Authorization Bandwidth = 34.20 - 35 = -0.80dBm;

For above 250% of Authorization Bandwidth = 34.20 - [43 + 10 $\log_{10}$ (2.630)] = -13dBm.

6.5. Frequency Stability under Temperature & Voltage Varions

6.5.1.Test Limit

FCC Part 25.202(d)

The carrier frequency of each earth station transmitter authorized in these services shall be maintained within 0.001 percent of the reference frequency.

6.5.2.Test Procedure Used

ANSI C63.26-2015 - Section 5.6.3 & 5.6.4 & 5.6.5

6.5.3.Test Setting

The EUT was set to transmit an unmodulated carrier. The EUT was connected to a spectrum analyser via a cable and attenuator.

Adjust the temperature and supply voltage follow below:

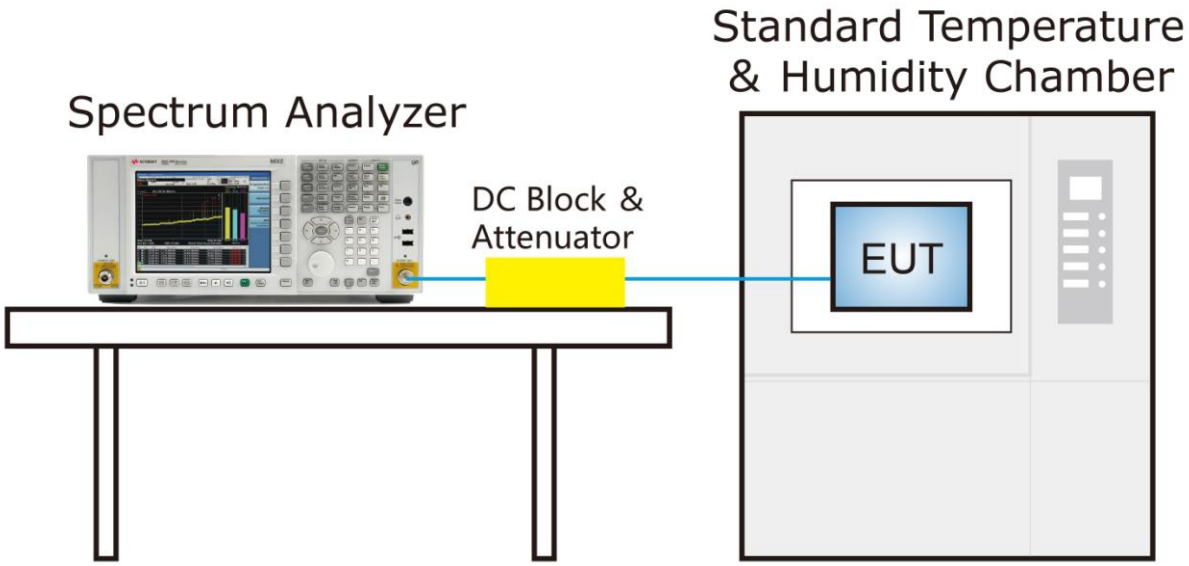
a) At 10°C intervals of temperatures between -30°C and +50°C at the manufacturer's rated supply voltage, and

b) At +20°C temperature and ±15% supply voltage variations. If a product is specified to operate over a range of input voltage then the -15% variation is applied to the lowermost voltage and the +15% is applied to the uppermost voltage.

Adjust the detector bandwidth and span settings to achieve a resolution capable of accurate frequency measurements over the applicable frequency stability limits. Mark the highest point and record it.

If an unmodulated carrier is not available, the mean frequency of a modulated carrier can be obtained by using a frequency counter with gating time set to an appropriately large multiple of bit periods (gating time depending on the required accuracy).

6.5.4.Test Setup



6.5.5.Test Result

Product	Flat Panel Integrated Satellite Communication Terminal	Temperature	-30℃ ~ +50℃
Test Engineer	Bruce Wang	Relative Humidity	52%
Test Site	TR3	Test Date	2019/08/09 ~ 2019/08/10

Modulation: BPSK, Data Rate: 3000kbps

Test Frequency (MHz)	Voltage (V_{DC})	Temp. (℃)	Upper Frequency (MHz)	Lower Frequency (MHz)	Calculated Center Frequency (MHz)	Frequency Stability (ppm)	Limit (ppm)	Result
14250	24.0	-30	14248.26	14251.75	14250.005	0.3509	≤ 10	Pass
		-20	14248.29	14251.70	14249.995	-0.3509	≤ 10	Pass
		-10	14248.33	14251.60	14249.965	-2.4561	≤ 10	Pass
		0	14248.34	14251.68	14250.010	0.7018	≤ 10	Pass
		+10	14248.40	14251.61	14250.005	0.3509	≤ 10	Pass
		+20	14248.31	14251.71	14250.010	0.7018	≤ 10	Pass
		+30	14248.26	14251.71	14249.985	-1.0526	≤ 10	Pass
		+40	14248.22	14251.76	14249.990	-0.7018	≤ 10	Pass
		+50	14248.27	14251.71	14249.990	-0.7018	≤ 10	Pass
	20.4	+20	14248.28	14251.75	14250.015	1.0526	≤ 10	Pass
	27.6	+20	14248.27	14251.73	14250.000	0.0000	≤ 10	Pass

Note: Frequency Stability (ppm) = {[Calculated Center Frequency (MHz) - Test Frequency (MHz)] / Test Frequency (MHz)} * 10^6.

Modulation: 1/2 BPSK, Data Rate: 1500kbps

Test Frequency (MHz)	Voltage (V_{DC})	Temp. (℃)	Upper Frequency (MHz)	Lower Frequency (MHz)	Calculated Center Frequency (MHz)	Frequency Stability (ppm)	Limit (ppm)	Result
14250	24.0	-30	14248.28	14251.73	14250.005	0.3509	≤ 10	Pass
		-20	14248.30	14251.72	14250.010	0.7018	≤ 10	Pass
		-10	14248.32	14251.71	14250.015	1.0526	≤ 10	Pass
		0	14248.29	14251.68	14249.985	-1.0526	≤ 10	Pass
		+10	14248.25	14251.75	14250.000	0.0000	≤ 10	Pass
		+20	14248.30	14251.68	14249.990	-0.7018	≤ 10	Pass
		+30	14248.28	14251.78	14250.030	2.1053	≤ 10	Pass
		+40	14248.20	14251.84	14250.020	1.4035	≤ 10	Pass
		+50	14248.26	14251.83	14250.045	3.1579	≤ 10	Pass
	20.4	+20	14248.32	14251.65	14249.985	-1.0526	≤ 10	Pass
	27.6	+20	14248.31	14251.68	14249.995	-0.3509	≤ 10	Pass

Note: Frequency Stability (ppm) = {[Calculated Center Frequency (MHz) - Test Frequency (MHz)] / Test Frequency (MHz)} * 10^6.

Modulation: 5/16 BPSK, Data Rate: 937.5kbps

Test Frequency (MHz)	Voltage (V_{DC})	Temp. (℃)	Upper Frequency (MHz)	Lower Frequency (MHz)	Calculated Center Frequency (MHz)	Frequency Stability (ppm)	Limit (ppm)	Result
14250	24.0	-30	14248.29	14251.73	14250.010	0.7018	≤ 10	Pass
		-20	14248.25	14251.75	14250.000	0.0000	≤ 10	Pass
		-10	14248.31	14251.72	14250.015	1.0526	≤ 10	Pass
		0	14248.31	14251.72	14250.015	1.0526	≤ 10	Pass
		+10	14248.26	14251.74	14250.000	0.0000	≤ 10	Pass
		+20	14248.28	14251.71	14249.995	-0.3509	≤ 10	Pass
		+30	14248.29	14251.73	14250.010	0.7018	≤ 10	Pass
		+40	14248.22	14251.78	14250.000	0.0000	≤ 10	Pass
		+50	14248.16	14251.78	14249.970	-2.1053	≤ 10	Pass
	20.4	+20	14248.29	14251.75	14250.020	1.4035	≤ 10	Pass
	27.6	+20	14248.30	14251.75	14250.025	1.7544	≤ 10	Pass

Note: Frequency Stability (ppm) = {[Calculated Center Frequency (MHz) - Test Frequency (MHz)] / Test Frequency (MHz)} * 10^6.

Modulation: 21/44 BPSK, Data Rate: 1431.82kbps

Test Frequency (MHz)	Voltage (V_{DC})	Temp. (℃)	Upper Frequency (MHz)	Lower Frequency (MHz)	Calculated Center Frequency (MHz)	Frequency Stability (ppm)	Limit (ppm)	Result
14250	24.0	-30	14248.26	14251.74	14250.000	0.0000	≤ 10	Pass
		-20	14248.27	14251.74	14250.005	0.3509	≤ 10	Pass
		-10	14248.26	14251.74	14250.000	0.0000	≤ 10	Pass
		0	14248.27	14251.74	14250.005	0.3509	≤ 10	Pass
		+10	14248.27	14251.72	14249.995	-0.3509	≤ 10	Pass
		+20	14248.27	14251.74	14250.005	0.3509	≤ 10	Pass
		+30	14248.19	14251.84	14250.015	1.0526	≤ 10	Pass
		+40	14248.26	14251.77	14250.015	1.0526	≤ 10	Pass
		+50	14248.26	14251.77	14250.015	1.0526	≤ 10	Pass
	20.4	+20	14248.27	14251.73	14250.000	0.0000	≤ 10	Pass
	27.6	+20	14248.29	14251.73	14250.010	0.7018	≤ 10	Pass

Note: Frequency Stability (ppm) = {[Calculated Center Frequency (MHz) - Test Frequency (MHz)] / Test Frequency (MHz)} * 10^6.

Modulation: QPSK, Data Rate: 5000kbps

Test Frequency (MHz)	Voltage (V_{DC})	Temp. (℃)	Upper Frequency (MHz)	Lower Frequency (MHz)	Calculated Center Frequency (MHz)	Frequency Stability (ppm)	Limit (ppm)	Result
14250	24.0	-30	14248.54	14251.45	14249.995	-0.3509	≤ 10	Pass
		-20	14248.54	14251.43	14249.985	-1.0526	≤ 10	Pass
		-10	14248.55	14251.47	14250.010	0.7018	≤ 10	Pass
		0	14248.55	14251.44	14249.995	-0.3509	≤ 10	Pass
		+10	14248.52	14251.46	14249.990	-0.7018	≤ 10	Pass
		+20	14248.57	14251.41	14249.990	-0.7018	≤ 10	Pass
		+30	14248.55	14251.48	14250.015	1.0526	≤ 10	Pass
		+40	14248.55	14251.44	14249.995	-0.3509	≤ 10	Pass
		+50	14248.53	14251.45	14249.990	-0.7018	≤ 10	Pass
	20.4	+20	14248.55	14251.45	14250.000	0.0000	≤ 10	Pass
	27.6	+20	14248.59	14251.43	14250.010	0.7018	≤ 10	Pass

Note: Frequency Stability (ppm) = {[Calculated Center Frequency (MHz) - Test Frequency (MHz)] / Test Frequency (MHz)} * 10^6.

Modulation: 1/2 QPSK, Data Rate: 3000kbps

Test Frequency (MHz)	Voltage (V_{DC})	Temp. (℃)	Upper Frequency (MHz)	Lower Frequency (MHz)	Calculated Center Frequency (MHz)	Frequency Stability (ppm)	Limit (ppm)	Result
14250	24.0	-30	14248.25	14251.77	14250.010	0.7018	≤ 10	Pass
		-20	14248.28	14251.76	14250.020	1.4035	≤ 10	Pass
		-10	14248.29	14251.68	14249.985	-1.0526	≤ 10	Pass
		0	14248.26	14251.74	14250.000	0.0000	≤ 10	Pass
		+10	14248.33	14251.68	14250.005	0.3509	≤ 10	Pass
		+20	14248.32	14251.67	14249.995	-0.3509	≤ 10	Pass
		+30	14248.24	14251.77	14250.005	0.3509	≤ 10	Pass
		+40	14248.27	14251.76	14250.015	1.0526	≤ 10	Pass
		+50	14248.28	14251.72	14250.000	0.0000	≤ 10	Pass
	20.4	+20	14248.30	14251.73	14250.015	1.0526	≤ 10	Pass
	27.6	+20	14248.26	14251.76	14250.010	0.7018	≤ 10	Pass

Note: Frequency Stability (ppm) = {[Calculated Center Frequency (MHz) - Test Frequency (MHz)] / Test Frequency (MHz)} * 10^6.

Modulation: 3/4 QPSK, Data Rate: 4500kbps

Test Frequency (MHz)	Voltage (V_{DC})	Temp. (℃)	Upper Frequency (MHz)	Lower Frequency (MHz)	Calculated Center Frequency (MHz)	Frequency Stability (ppm)	Limit (ppm)	Result
14250	24.0	-30	14248.30	14251.74	14250.020	1.4035	≤ 10	Pass
		-20	14248.31	14251.71	14250.010	0.7018	≤ 10	Pass
		-10	14248.31	14251.70	14250.005	0.3509	≤ 10	Pass
		0	14248.30	14251.70	14250.000	0.0000	≤ 10	Pass
		+10	14248.29	14251.73	14250.010	0.7018	≤ 10	Pass
		+20	14248.30	14251.70	14250.000	0.0000	≤ 10	Pass
		+30	14248.30	14251.71	14250.005	0.3509	≤ 10	Pass
		+40	14248.26	14251.77	14250.015	1.0526	≤ 10	Pass
		+50	14248.33	14251.71	14250.020	1.4035	≤ 10	Pass
	20.4	+20	14248.31	14251.70	14250.005	0.3509	≤ 10	Pass
	27.6	+20	14248.30	14251.70	14250.000	0.0000	≤ 10	Pass

Note: Frequency Stability (ppm) = {[Calculated Center Frequency (MHz) - Test Frequency (MHz)] / Test Frequency (MHz)} * 10^6.

Modulation: 7/8 QPSK, Data Rate: 5000kbps

Test Frequency (MHz)	Voltage (V_{DC})	Temp. (℃)	Upper Frequency (MHz)	Lower Frequency (MHz)	Calculated Center Frequency (MHz)	Frequency Stability (ppm)	Limit (ppm)	Result
14250	24.0	-30	14248.36	14251.66	14250.010	0.7018	≤ 10	Pass
		-20	14248.34	14251.67	14250.005	0.3509	≤ 10	Pass
		-10	14248.37	14251.63	14250.000	0.0000	≤ 10	Pass
		0	14248.38	14251.66	14250.020	1.4035	≤ 10	Pass
		+10	14248.36	14251.62	14249.990	-0.7018	≤ 10	Pass
		+20	14248.36	14251.64	14250.000	0.0000	≤ 10	Pass
		+30	14248.36	14251.68	14250.020	1.4035	≤ 10	Pass
		+40	14248.36	14251.67	14250.015	1.0526	≤ 10	Pass
		+50	14248.36	14251.68	14250.020	1.4035	≤ 10	Pass
	20.4	+20	14248.40	14251.64	14250.020	1.4035	≤ 10	Pass
	27.6	+20	14248.35	14251.64	14249.995	-0.3509	≤ 10	Pass

Note: Frequency Stability (ppm) = {[Calculated Center Frequency (MHz) - Test Frequency (MHz)] / Test Frequency (MHz)} * 10^6.

Modulation: 21/44 QPSK, Data Rate: 2863.636kbps

Test Frequency (MHz)	Voltage (V_{DC})	Temp. (℃)	Upper Frequency (MHz)	Lower Frequency (MHz)	Calculated Center Frequency (MHz)	Frequency Stability (ppm)	Limit (ppm)	Result
14250	24.0	-30	14248.26	14251.71	14249.985	-1.0526	≤ 10	Pass
		-20	14248.26	14251.72	14249.990	-0.7018	≤ 10	Pass
		-10	14248.27	14251.72	14249.995	-0.3509	≤ 10	Pass
		0	14248.38	14251.64	14250.010	0.7018	≤ 10	Pass
		+10	14248.29	14251.72	14250.005	0.3509	≤ 10	Pass
		+20	14248.26	14251.76	14250.010	0.7018	≤ 10	Pass
		+30	14248.24	14251.81	14250.025	1.7544	≤ 10	Pass
		+40	14248.30	14251.72	14250.010	0.7018	≤ 10	Pass
		+50	14248.27	14251.77	14250.020	1.4035	≤ 10	Pass
	20.4	+20	14248.33	14251.71	14250.020	1.4035	≤ 10	Pass
	27.6	+20	14248.30	14251.74	14250.020	1.4035	≤ 10	Pass

Note: Frequency Stability (ppm) = {[Calculated Center Frequency (MHz) - Test Frequency (MHz)] / Test Frequency (MHz)} * 10^6.

Modulation: OQPSK, Data Rate: 5000kbps

Test Frequency (MHz)	Voltage (V_{DC})	Temp. (℃)	Upper Frequency (MHz)	Lower Frequency (MHz)	Calculated Center Frequency (MHz)	Frequency Stability (ppm)	Limit (ppm)	Result
14250	24.0	-30	14248.56	14251.41	14249.985	-1.0526	≤ 10	Pass
		-20	14248.58	14251.40	14249.990	-0.7018	≤ 10	Pass
		-10	14248.54	14251.46	14250.000	0.0000	≤ 10	Pass
		0	14248.64	14251.37	14250.005	0.3509	≤ 10	Pass
		+10	14248.55	14251.46	14250.005	0.3509	≤ 10	Pass
		+20	14248.48	14251.46	14249.970	-2.1053	≤ 10	Pass
		+30	14248.56	14251.44	14250.000	0.0000	≤ 10	Pass
		+40	14248.51	14251.46	14249.985	-1.0526	≤ 10	Pass
		+50	14248.61	14251.44	14250.025	1.7544	≤ 10	Pass
	20.4	+20	14248.57	14251.44	14250.005	0.3509	≤ 10	Pass
	27.6	+20	14248.58	14251.45	14250.015	1.0526	≤ 10	Pass

Note: Frequency Stability (ppm) = {[Calculated Center Frequency (MHz) - Test Frequency (MHz)] / Test Frequency (MHz)} * 10^6.

Modulation: 1/2 OQPSK, Data Rate: 3000kbps

Test Frequency (MHz)	Voltage (V_{DC})	Temp. (℃)	Upper Frequency (MHz)	Lower Frequency (MHz)	Calculated Center Frequency (MHz)	Frequency Stability (ppm)	Limit (ppm)	Result
14250	24.0	-30	14248.27	14251.75	14250.010	0.7018	≤ 10	Pass
		-20	14248.39	14251.63	14250.010	0.7018	≤ 10	Pass
		-10	14248.37	14251.65	14250.010	0.7018	≤ 10	Pass
		0	14248.29	14251.75	14250.020	1.4035	≤ 10	Pass
		+10	14248.29	14251.78	14250.035	2.4561	≤ 10	Pass
		+20	14248.36	14251.63	14249.995	-0.3509	≤ 10	Pass
		+30	14248.21	14251.78	14249.995	-0.3509	≤ 10	Pass
		+40	14248.24	14251.79	14250.015	1.0526	≤ 10	Pass
		+50	14248.28	14251.74	14250.010	0.7018	≤ 10	Pass
	20.4	+20	14248.28	14251.76	14250.020	1.4035	≤ 10	Pass
	27.6	+20	14248.22	14251.76	14249.990	-0.7018	≤ 10	Pass

Note: Frequency Stability (ppm) = {[Calculated Center Frequency (MHz) - Test Frequency (MHz)] / Test Frequency (MHz)} * 10^6.

Modulation: 3/4 OQPSK, Data Rate: 4500kbps

Test Frequency (MHz)	Voltage (V_{DC})	Temp. (℃)	Upper Frequency (MHz)	Lower Frequency (MHz)	Calculated Center Frequency (MHz)	Frequency Stability (ppm)	Limit (ppm)	Result
14250	24.0	-30	14248.31	14251.69	14250.000	0.0000	≤ 10	Pass
		-20	14248.31	14251.70	14250.005	0.3509	≤ 10	Pass
		-10	14248.33	14251.70	14250.015	1.0526	≤ 10	Pass
		0	14248.31	14251.69	14250.000	0.0000	≤ 10	Pass
		+10	14248.31	14251.69	14250.000	0.0000	≤ 10	Pass
		+20	14248.31	14251.69	14250.000	0.0000	≤ 10	Pass
		+30	14248.26	14251.86	14250.060	4.2105	≤ 10	Pass
		+40	14248.22	14251.79	14250.005	0.3509	≤ 10	Pass
		+50	14248.30	14251.75	14250.025	1.7544	≤ 10	Pass
	20.4	+20	14248.31	14251.69	14250.000	0.0000	≤ 10	Pass
	27.6	+20	14248.31	14251.70	14250.005	0.3509	≤ 10	Pass

Note: Frequency Stability (ppm) = {[Calculated Center Frequency (MHz) - Test Frequency (MHz)] / Test Frequency (MHz)} * 10^6.

Modulation: 7/8 OQPSK, Data Rate: 5000kbps

Test Frequency (MHz)	Voltage (V_{DC})	Temp. (℃)	Upper Frequency (MHz)	Lower Frequency (MHz)	Calculated Center Frequency (MHz)	Frequency Stability (ppm)	Limit (ppm)	Result
14250	24.0	-30	14248.39	14251.64	14250.015	1.0526	≤ 10	Pass
		-20	14248.35	14251.64	14249.995	-0.3509	≤ 10	Pass
		-10	14248.38	14251.68	14250.030	2.1053	≤ 10	Pass
		0	14248.38	14251.66	14250.020	1.4035	≤ 10	Pass
		+10	14248.35	14251.62	14249.985	-1.0526	≤ 10	Pass
		+20	14248.39	14251.57	14249.980	-1.4035	≤ 10	Pass
		+30	14248.32	14251.67	14249.995	-0.3509	≤ 10	Pass
		+40	14248.33	14251.67	14250.000	0.0000	≤ 10	Pass
		+50	14248.39	14251.65	14250.020	1.4035	≤ 10	Pass
	20.4	+20	14248.34	14251.67	14250.005	0.3509	≤ 10	Pass
	27.6	+20	14248.35	14251.65	14250.000	0.0000	≤ 10	Pass

Note: Frequency Stability (ppm) = {[Calculated Center Frequency (MHz) - Test Frequency (MHz)] / Test Frequency (MHz)} * 10^6.

Modulation: 21/44 OQPSK, Data Rate: 2863.636kbps

Test Frequency (MHz)	Voltage (V_{DC})	Temp. (℃)	Upper Frequency (MHz)	Lower Frequency (MHz)	Calculated Center Frequency (MHz)	Frequency Stability (ppm)	Limit (ppm)	Result
14250	24.0	-30	14248.29	14251.74	14250.015	1.0526	≤ 10	Pass
		-20	14248.28	14251.74	14250.010	0.7018	≤ 10	Pass
		-10	14248.28	14251.75	14250.015	1.0526	≤ 10	Pass
		0	14248.25	14251.71	14249.980	-1.4035	≤ 10	Pass
		+10	14248.27	14251.73	14250.000	0.0000	≤ 10	Pass
		+20	14248.29	14251.74	14250.015	1.0526	≤ 10	Pass
		+30	14248.19	14251.78	14249.985	-1.0526	≤ 10	Pass
		+40	14248.27	14251.74	14250.005	0.3509	≤ 10	Pass
		+50	14248.17	14251.78	14249.975	-1.7544	≤ 10	Pass
	20.4	+20	14248.29	14251.71	14250.000	0.0000	≤ 10	Pass
	27.6	+20	14248.23	14251.75	14249.990	-0.7018	≤ 10	Pass

Note: Frequency Stability (ppm) = {[Calculated Center Frequency (MHz) - Test Frequency (MHz)] / Test Frequency (MHz)} * 10^6.

6.6. Radiated Spurious Emission Measurement

6.6.1.Test Limit

FCC Part 25.202(f) Emission Limitations

The mean power of emissions shall be attenuated below the mean output power of the transmitter in accordance with the schedule:

(3) In any 4kHz band, the center frequency of which is removed from the assigned frequency by more than 250 percent of the authorized bandwidth: An amount equal to 43dB plus 10 times the logarithm (to the base 10) of the transmitter power in watts.

6.6.2.Test Procedure Used

ANSI C63.26-2015 - Section 5.7

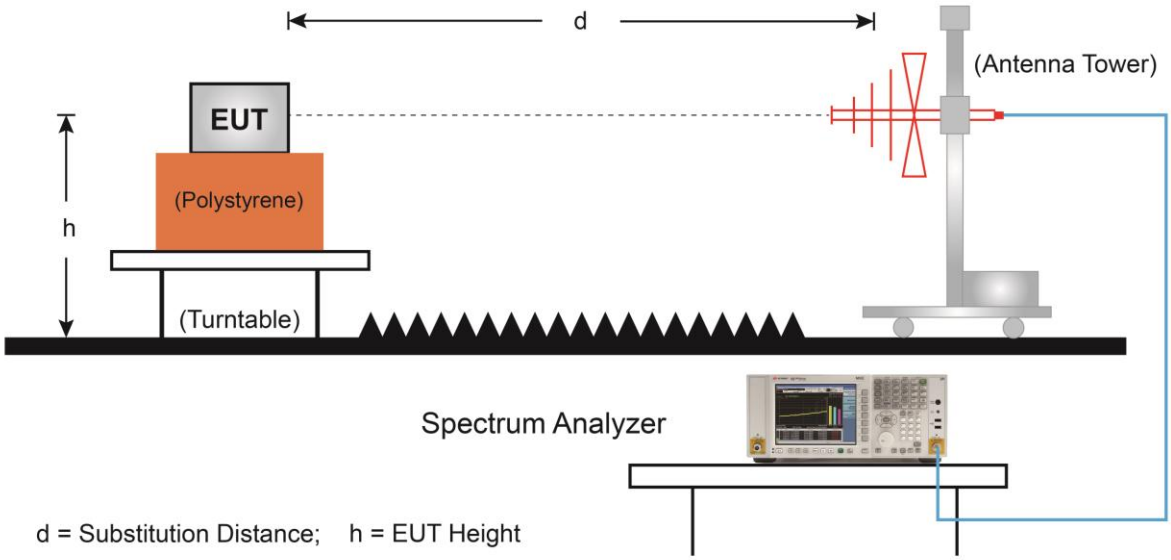
6.6.3.Test Setting

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 100kHz for below 1GHz or 1MHz for above 1GHz

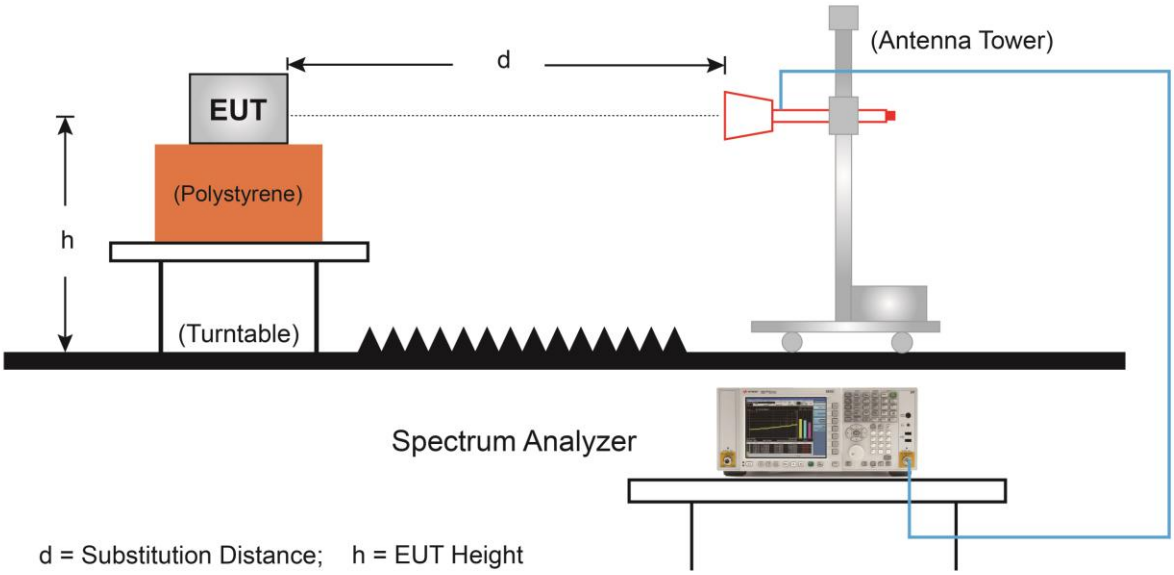
   Set the RBW greater than 4kHz in order to increase the measurement speed
3. VBW = 3 * RBW
4. Detector = power averaging (RMS)
5. Sweep time = Auto couple
6. Trace mode = Max hold
7. Trace was allowed to stabilize

6.6.4.Test Setup

Below 1GHz Test Setup:



Above 1GHz Test Setup:



6.6.5.Test Result

Product	Flat Panel Integrated Satellite Communication Terminal	Temperature	25℃
Test Engineer	Bruce Wang	Relative Humidity	54%
Test Site	AC1	Test Date	2019/08/13
Test Mode	Transmit at channel 14250MHz (Modulation: BPSK, Data Rate: 3000kbps)		

Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector	Polarization
552.3	-98.2	30.9	-67.3	-13.0	-54.3	Average	Horizontal
690.6	-99.4	33.1	-66.3	-13.0	-53.3	Average	Horizontal
41.2	-90.0	20.3	-69.7	-13.0	-56.7	Average	Vertical
690.6	-97.1	32.8	-64.3	-13.0	-51.3	Average	Vertical
9789.0	-80.8	31.4	-49.4	-13.0	-36.4	Average	Horizontal
17847.0	-84.6	43.6	-41.0	-13.0	-28.0	Average	Horizontal
10622.0	-81.8	32.3	-49.5	-13.0	-36.5	Average	Vertical
17830.0	-82.1	41.7	-40.4	-13.0	-27.4	Average	Vertical
36370.0	-55.2	17.8	-37.4	-13.0	-24.4	Average	Horizontal
39989.0	-58.5	27.0	-31.5	-13.0	-18.5	Average	Horizontal
29737.0	-59.9	13.6	-46.3	-13.0	-33.3	Average	Vertical
39967.0	-57.9	27.0	-30.9	-13.0	-17.9	Average	Vertical

Note 1: Measure Level (dBm) = Reading Level (dBm) + Factor (dB)

Note 2: Factor (dB) = Cable Loss (dB) + Space Attenuation (dB) + Antenna Factor (dB/m)

Note 3: For 18GHz~40GHz, the Emission Power in dBm was converted by the equivalent formula: EIRP[dBm] = E[dBμV/m] - 95.2

Note 4: There is the ambient noise within frequency range 9kHz~30MHz and 40GHz~75GHz, the permissible value is not show in the report.

Product	Flat Panel Integrated Satellite Communication Terminal	Temperature	25℃
Test Engineer	Bruce Wang	Relative Humidity	54%
Test Site	AC1	Test Date	2019/08/13
Test Mode	Transmit at channel 14250MHz (Modulation: 1/2 BPSK, Data Rate: 1500kbps)		

Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector	Polarization
552.3	-97.3	30.9	-66.4	-13.0	-53.4	Average	Horizontal
690.6	-99.0	33.1	-65.9	-13.0	-52.9	Average	Horizontal
40.7	-89.0	20.3	-68.7	-13.0	-55.7	Average	Vertical
690.6	-98.0	32.8	-65.2	-13.0	-52.2	Average	Vertical
10766.5	-80.9	31.7	-49.2	-13.0	-36.2	Average	Horizontal
17847.0	-85.0	43.6	-41.4	-13.0	-28.4	Average	Horizontal
10613.5	-81.2	32.2	-49.0	-13.0	-36.0	Average	Vertical
17830.0	-83.1	41.7	-41.4	-13.0	-28.4	Average	Vertical
30859.0	-61.1	14.6	-46.5	-13.0	-33.5	Average	Horizontal
39560.0	-56.3	26.3	-30.0	-13.0	-17.0	Average	Horizontal
36018.0	-54.1	17.5	-36.6	-13.0	-23.6	Average	Vertical
39978.0	-55.7	27.1	-28.6	-13.0	-15.6	Average	Vertical

Note 1: Measure Level (dBm) = Reading Level (dBm) + Factor (dB)

Note 2: Factor (dB) = Cable Loss (dB) + Space Attenuation (dB) + Antenna Factor (dB/m)

Note 3: For 18GHz~40GHz, the Emission Power in dBm was converted by the equivalent formula: EIRP[dBm] = E[dBμV/m] - 95.2

Note 4: There is the ambient noise within frequency range 9kHz~30MHz and 40GHz~75GHz, the permissible value is not show in the report.

Product	Flat Panel Integrated Satellite Communication Terminal	Temperature	25℃
Test Engineer	Bruce Wang	Relative Humidity	54%
Test Site	AC1	Test Date	2019/08/13
Test Mode	Transmit at channel 14250MHz (Modulation: 5/16 BPSK, Data Rate: 937.5kbps)		

Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector	Polarization
40.7	-88.5	27.6	-60.9	-13.0	-47.9	Average	Horizontal
690.6	-98.0	33.1	-64.9	-13.0	-51.9	Average	Horizontal
40.7	-88.8	20.3	-68.5	-13.0	-55.5	Average	Vertical
690.1	-98.4	32.8	-65.6	-13.0	-52.6	Average	Vertical
11421.0	-80.8	32.0	-48.8	-13.0	-35.8	Average	Horizontal
17847.0	-85.0	43.6	-41.4	-13.0	-28.4	Average	Horizontal
11421.0	-81.5	32.0	-49.5	-13.0	-36.5	Average	Vertical
17830.0	-82.8	41.7	-41.1	-13.0	-28.1	Average	Vertical
26041.0	-55.8	12.3	-43.5	-13.0	-30.5	Average	Horizontal
39197.0	-54.6	25.2	-29.4	-13.0	-16.4	Average	Horizontal
27284.0	-57.0	12.9	-44.1	-13.0	-31.1	Average	Vertical
39483.0	-56.6	25.9	-30.7	-13.0	-17.7	Average	Vertical

Note 1: Measure Level (dBm) = Reading Level (dBm) + Factor (dB)

Note 2: Factor (dB) = Cable Loss (dB) + Space Attenuation (dB) + Antenna Factor (dB/m)

Note 3: For 18GHz~40GHz, the Emission Power in dBm was converted by the equivalent formula: EIRP[dBm] = E[dBμV/m] - 95.2

Note 4: There is the ambient noise within frequency range 9kHz~30MHz and 40GHz~75GHz, the permissible value is not show in the report.

Product	Flat Panel Integrated Satellite Communication Terminal	Temperature	25℃
Test Engineer	Bruce Wang	Relative Humidity	54%
Test Site	AC1	Test Date	2019/08/13
Test Mode	Transmit at channel 14250MHz (Modulation: 21/44 BPSK, Data Rate: 1431.818kbps)		

Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector	Polarization
552.3	-96.5	30.9	-65.6	-13.0	-52.6	Average	Horizontal
690.6	-99.5	33.1	-66.4	-13.0	-53.4	Average	Horizontal
40.7	-89.3	20.3	-69.0	-13.0	-56.0	Average	Vertical
690.6	-98.5	32.8	-65.7	-13.0	-52.7	Average	Vertical
11412.5	-80.9	31.8	-49.1	-13.0	-36.1	Average	Horizontal
17847.0	-85.1	43.6	-41.5	-13.0	-28.5	Average	Horizontal
10605.0	-81.7	32.1	-49.6	-13.0	-36.6	Average	Vertical
17821.5	-82.6	40.2	-42.4	-13.0	-29.4	Average	Vertical
26371.0	-56.4	12.9	-43.5	-13.0	-30.5	Average	Horizontal
39714.0	-56.3	26.9	-29.4	-13.0	-16.4	Average	Horizontal
29154.0	-56.7	14.0	-42.7	-13.0	-29.7	Average	Vertical
38900.0	-54.4	24.7	-29.7	-13.0	-16.7	Average	Vertical

Note 1: Measure Level (dBm) = Reading Level (dBm) + Factor (dB)

Note 2: Factor (dB) = Cable Loss (dB) + Space Attenuation (dB) + Antenna Factor (dB/m)

Note 3: For 18GHz~40GHz, the Emission Power in dBm was converted by the equivalent formula: EIRP[dBm] = E[dBμV/m] - 95.2

Note 4: There is the ambient noise within frequency range 9kHz~30MHz and 40GHz~75GHz, the permissible value is not show in the report.

Product	Flat Panel Integrated Satellite Communication Terminal	Temperature	25℃
Test Engineer	Bruce Wang	Relative Humidity	54%
Test Site	AC1	Test Date	2019/08/13
Test Mode	Transmit at channel 14250MHz (Modulation: QPSK, Data Rate: 5000kbps)		

Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector	Polarization
552.3	-96.7	30.9	-65.8	-13.0	-52.8	Average	Horizontal
690.6	-99.0	33.1	-65.9	-13.0	-52.9	Average	Horizontal
40.7	-89.3	20.3	-69.0	-13.0	-56.0	Average	Vertical
690.6	-97.6	32.8	-64.8	-13.0	-51.8	Average	Vertical
10766.5	-81.1	31.7	-49.4	-13.0	-36.4	Average	Horizontal
17847.0	-85.7	43.6	-42.1	-13.0	-29.1	Average	Horizontal
10605.0	-81.1	32.1	-49.0	-13.0	-36.0	Average	Vertical
17830.0	-83.6	41.7	-41.9	-13.0	-28.9	Average	Vertical
30199.0	-56.3	13.2	-43.1	-13.0	-30.1	Average	Horizontal
39483.0	-55.9	25.9	-30.0	-13.0	-17.0	Average	Horizontal
30881.0	-57.6	14.8	-42.8	-13.0	-29.8	Average	Vertical
39241.0	-55.0	25.1	-29.9	-13.0	-16.9	Average	Vertical

Note 1: Measure Level (dBm) = Reading Level (dBm) + Factor (dB)

Note 2: Factor (dB) = Cable Loss (dB) + Space Attenuation (dB) + Antenna Factor (dB/m)

Note 3: For 18GHz~40GHz, the Emission Power in dBm was converted by the equivalent formula: EIRP[dBm] = E[dBμV/m] - 95.2

Note 4: There is the ambient noise within frequency range 9kHz~30MHz and 40GHz~75GHz, the permissible value is not show in the report.

Product	Flat Panel Integrated Satellite Communication Terminal	Temperature	25℃
Test Engineer	Bruce Wang	Relative Humidity	54%
Test Site	AC1	Test Date	2019/08/13
Test Mode	Transmit at channel 14250MHz (Modulation: 1/2 QPSK, Data Rate: 3000kbps)		

Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector	Polarization
552.3	-96.4	30.9	-65.5	-13.0	-52.5	Average	Horizontal
690.6	-99.6	33.1	-66.5	-13.0	-53.5	Average	Horizontal
40.2	-89.2	20.5	-68.7	-13.0	-55.7	Average	Vertical
690.6	-97.9	32.8	-65.1	-13.0	-52.1	Average	Vertical
10112.0	-81.1	31.3	-49.8	-13.0	-36.8	Average	Horizontal
17847.0	-85.5	43.6	-41.9	-13.0	-28.9	Average	Horizontal
10545.5	-82.2	32.4	-49.8	-13.0	-36.8	Average	Vertical
17830.0	-83.8	41.7	-42.1	-13.0	-29.1	Average	Vertical
31024.0	-56.9	14.0	-42.9	-13.0	-29.9	Average	Horizontal
38845.0	-55.4	24.7	-30.7	-13.0	-17.7	Average	Horizontal
31673.0	-57.0	13.9	-43.1	-13.0	-30.1	Average	Vertical
39208.0	-55.8	25.4	-30.4	-13.0	-17.4	Average	Vertical

Note 1: Measure Level (dBm) = Reading Level (dBm) + Factor (dB)

Note 2: Factor (dB) = Cable Loss (dB) + Space Attenuation (dB) + Antenna Factor (dB/m)

Note 3: For 18GHz~40GHz, the Emission Power in dBm was converted by the equivalent formula: EIRP[dBm] = E[dBμV/m] - 95.2

Note 4: There is the ambient noise within frequency range 9kHz~30MHz and 40GHz~75GHz, the permissible value is not show in the report.

Product	Flat Panel Integrated Satellite Communication Terminal	Temperature	25℃
Test Engineer	Bruce Wang	Relative Humidity	54%
Test Site	AC1	Test Date	2019/08/13
Test Mode	Transmit at channel 14250MHz (Modulation: 3/4 QPSK, Data Rate: 4500kbps)		

Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector	Polarization
552.3	-97.0	30.9	-66.1	-13.0	-53.1	Average	Horizontal
690.6	-99.7	33.1	-66.6	-13.0	-53.6	Average	Horizontal
40.7	-88.8	20.3	-68.5	-13.0	-55.5	Average	Vertical
690.6	-97.5	32.8	-64.7	-13.0	-51.7	Average	Vertical
10528.5	-81.7	31.9	-49.8	-13.0	-36.8	Average	Horizontal
17847.0	-84.4	43.6	-40.8	-13.0	-27.8	Average	Horizontal
10392.5	-81.7	31.9	-49.8	-13.0	-36.8	Average	Vertical
17830.0	-83.8	41.7	-42.1	-13.0	-29.1	Average	Vertical
33169.0	-56.4	14.5	-41.9	-13.0	-28.9	Average	Horizontal
39505.0	-56.2	26.1	-30.1	-13.0	-17.1	Average	Horizontal
34720.0	-55.4	15.8	-39.6	-13.0	-26.6	Average	Vertical
39505.0	-56.1	26.1	-30.0	-13.0	-17.0	Average	Vertical

Note 1: Measure Level (dBm) = Reading Level (dBm) + Factor (dB)

Note 2: Factor (dB) = Cable Loss (dB) + Space Attenuation (dB) + Antenna Factor (dB/m)

Note 3: For 18GHz~40GHz, the Emission Power in dBm was converted by the equivalent formula: EIRP[dBm] = E[dBμV/m] - 95.2

Note 4: There is the ambient noise within frequency range 9kHz~30MHz and 40GHz~75GHz, the permissible value is not show in the report.

Product	Flat Panel Integrated Satellite Communication Terminal	Temperature	25℃
Test Engineer	Bruce Wang	Relative Humidity	54%
Test Site	AC1	Test Date	2019/08/13
Test Mode	Transmit at channel 14250MHz (Modulation: 7/8 QPSK, Data Rate: 5000kbps)		

Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector	Polarization
552.3	-97.1	30.9	-66.2	-13.0	-53.2	Average	Horizontal
690.1	-101.3	33.1	-68.2	-13.0	-55.2	Average	Horizontal
40.7	-89.5	20.3	-69.2	-13.0	-56.2	Average	Vertical
690.6	-97.5	32.8	-64.7	-13.0	-51.7	Average	Vertical
11421.0	-81.5	32.0	-49.5	-13.0	-36.5	Average	Horizontal
17847.0	-85.7	43.6	-42.1	-13.0	-29.1	Average	Horizontal
11591.0	-80.9	32.0	-48.9	-13.0	-35.9	Average	Vertical
17830.0	-83.4	41.7	-41.7	-13.0	-28.7	Average	Vertical
26404.0	-56.6	13.1	-43.5	-13.0	-30.5	Average	Horizontal
39186.0	-55.0	25.1	-29.9	-13.0	-16.9	Average	Horizontal
29132.0	-56.9	13.9	-43.0	-13.0	-30.0	Average	Vertical
38900.0	-54.5	24.7	-29.8	-13.0	-16.8	Average	Vertical

Note 1: Measure Level (dBm) = Reading Level (dBm) + Factor (dB)

Note 2: Factor (dB) = Cable Loss (dB) + Space Attenuation (dB) + Antenna Factor (dB/m)

Note 3: For 18GHz~40GHz, the Emission Power in dBm was converted by the equivalent formula: EIRP[dBm] = E[dBμV/m] - 95.2

Note 4: There is the ambient noise within frequency range 9kHz~30MHz and 40GHz~75GHz, the permissible value is not show in the report.

Product	Flat Panel Integrated Satellite Communication Terminal	Temperature	25℃
Test Engineer	Bruce Wang	Relative Humidity	54%
Test Site	AC1	Test Date	2019/08/13
Test Mode	Transmit at channel 14250MHz (Modulation: 21/44 QPSK, Data Rate: 2863.636kbps)		

Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector	Polarization
40.7	-101.4	27.6	-73.8	-13.0	-60.8	Average	Horizontal
690.6	-99.3	33.1	-66.2	-13.0	-53.2	Average	Horizontal
40.2	-89.8	20.5	-69.3	-13.0	-56.3	Average	Vertical
690.1	-97.1	32.8	-64.3	-13.0	-51.3	Average	Vertical
10605.0	-80.9	31.6	-49.3	-13.0	-36.3	Average	Horizontal
17855.5	-83.2	41.1	-42.1	-13.0	-29.1	Average	Horizontal
10477.5	-81.2	31.8	-49.4	-13.0	-36.4	Average	Vertical
17830.0	-82.6	41.7	-40.9	-13.0	-27.9	Average	Vertical
32586.0	-56.2	13.9	-42.3	-13.0	-29.3	Average	Horizontal
39560.0	-55.5	26.3	-29.2	-13.0	-16.2	Average	Horizontal
31222.0	-56.7	14.3	-42.4	-13.0	-29.4	Average	Vertical
39703.0	-55.5	26.7	-28.8	-13.0	-15.8	Average	Vertical

Note 1: Measure Level (dBm) = Reading Level (dBm) + Factor (dB)

Note 2: Factor (dB) = Cable Loss (dB) + Space Attenuation (dB) + Antenna Factor (dB/m)

Note 3: For 18GHz~40GHz, the Emission Power in dBm was converted by the equivalent formula: EIRP[dBm] = E[dBμV/m] - 95.2

Note 4: There is the ambient noise within frequency range 9kHz~30MHz and 40GHz~75GHz, the permissible value is not show in the report.

Product	Flat Panel Integrated Satellite Communication Terminal	Temperature	25℃
Test Engineer	Bruce Wang	Relative Humidity	54%
Test Site	AC1	Test Date	2019/08/13
Test Mode	Transmit at channel 14250MHz (Modulation: OQPSK, Data Rate: 5000kbps)		

Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector	Polarization
552.3	-96.6	30.9	-65.7	-13.0	-52.7	Average	Horizontal
690.1	-100.9	33.1	-67.8	-13.0	-54.8	Average	Horizontal
40.2	-89.5	20.5	-69.0	-13.0	-56.0	Average	Vertical
690.6	-97.5	32.8	-64.7	-13.0	-51.7	Average	Vertical
11157.5	-81.2	31.6	-49.6	-13.0	-36.6	Average	Horizontal
17855.5	-83.1	41.1	-42.0	-13.0	-29.0	Average	Horizontal
11429.5	-81.4	32.1	-49.3	-13.0	-36.3	Average	Vertical
17830.0	-84.0	41.7	-42.3	-13.0	-29.3	Average	Vertical
33147.0	-56.6	14.5	-42.1	-13.0	-29.1	Average	Horizontal
39978.0	-57.8	27.1	-30.7	-13.0	-17.7	Average	Horizontal
35567.0	-55.6	16.7	-38.9	-13.0	-25.9	Average	Vertical
39186.0	-55.3	25.1	-30.2	-13.0	-17.2	Average	Vertical

Note 1: Measure Level (dBm) = Reading Level (dBm) + Factor (dB)

Note 2: Factor (dB) = Cable Loss (dB) + Space Attenuation (dB) + Antenna Factor (dB/m)

Note 3: For 18GHz~40GHz, the Emission Power in dBm was converted by the equivalent formula: EIRP[dBm] = E[dBμV/m] - 95.2

Note 4: There is the ambient noise within frequency range 9kHz~30MHz and 40GHz~75GHz, the permissible value is not show in the report.

Product	Flat Panel Integrated Satellite Communication Terminal	Temperature	25℃
Test Engineer	Bruce Wang	Relative Humidity	54%
Test Site	AC1	Test Date	2019/08/13
Test Mode	Transmit at channel 14250MHz (Modulation: 1/2 OQPSK, Data Rate: 3000kbps)		

Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector	Polarization
552.3	-97.3	30.9	-66.4	-13.0	-53.4	Average	Horizontal
690.1	-100.7	33.1	-67.6	-13.0	-54.6	Average	Horizontal
40.7	-89.3	20.3	-69.0	-13.0	-56.0	Average	Vertical
690.6	-97.9	32.8	-65.1	-13.0	-52.1	Average	Vertical
10520.0	-82.0	32.0	-50.0	-13.0	-37.0	Average	Horizontal
17991.5	-81.9	39.7	-42.2	-13.0	-29.2	Average	Horizontal
10511.5	-81.5	31.7	-49.8	-13.0	-36.8	Average	Vertical
17830.0	-83.4	41.7	-41.7	-13.0	-28.7	Average	Vertical
30815.0	-56.3	14.2	-42.1	-13.0	-29.1	Average	Horizontal
39362.0	-56.1	25.9	-30.2	-13.0	-17.2	Average	Horizontal
31376.0	-56.8	14.0	-42.8	-13.0	-29.8	Average	Vertical
39373.0	-55.7	25.8	-29.9	-13.0	-16.9	Average	Vertical

Note 1: Measure Level (dBm) = Reading Level (dBm) + Factor (dB)

Note 2: Factor (dB) = Cable Loss (dB) + Space Attenuation (dB) + Antenna Factor (dB/m)

Note 3: For 18GHz~40GHz, the Emission Power in dBm was converted by the equivalent formula: EIRP[dBm] = E[dBμV/m] - 95.2

Note 4: There is the ambient noise within frequency range 9kHz~30MHz and 40GHz~75GHz, the permissible value is not show in the report.

Product	Flat Panel Integrated Satellite Communication Terminal	Temperature	25℃
Test Engineer	Bruce Wang	Relative Humidity	54%
Test Site	AC1	Test Date	2019/08/13
Test Mode	Transmit at channel 14250MHz (Modulation: 3/4 OQPSK, Data Rate: 4500kbps)		

Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector	Polarization
552.3	-96.9	30.9	-66.0	-13.0	-53.0	Average	Horizontal
690.1	-100.2	33.1	-67.1	-13.0	-54.1	Average	Horizontal
40.7	-89.0	20.3	-68.7	-13.0	-55.7	Average	Vertical
690.6	-97.8	32.8	-65.0	-13.0	-52.0	Average	Vertical
9857.0	-81.3	31.6	-49.7	-13.0	-36.7	Average	Horizontal
17847.0	-84.7	43.6	-41.1	-13.0	-28.1	Average	Horizontal
10613.5	-81.3	32.2	-49.1	-13.0	-36.1	Average	Vertical
17830.0	-83.2	41.7	-41.5	-13.0	-28.5	Average	Vertical
27383.0	-55.4	13.1	-42.3	-13.0	-29.3	Average	Horizontal
39714.0	-55.8	26.9	-28.9	-13.0	-15.9	Average	Horizontal
26448.0	-56.1	13.0	-43.1	-13.0	-30.1	Average	Vertical
39791.0	-56.8	26.8	-30.0	-13.0	-17.0	Average	Vertical

Note 1: Measure Level (dBm) = Reading Level (dBm) + Factor (dB)

Note 2: Factor (dB) = Cable Loss (dB) + Space Attenuation (dB) + Antenna Factor (dB/m)

Note 3: For 18GHz~40GHz, the Emission Power in dBm was converted by the equivalent formula: EIRP[dBm] = E[dBμV/m] - 95.2

Note 4: There is the ambient noise within frequency range 9kHz~30MHz and 40GHz~75GHz, the permissible value is not show in the report.

Product	Flat Panel Integrated Satellite Communication Terminal	Temperature	25℃
Test Engineer	Bruce Wang	Relative Humidity	54%
Test Site	AC1	Test Date	2019/08/13
Test Mode	Transmit at channel 14250MHz (Modulation: 7/8 OQPSK, Data Rate: 5000kbps)		

Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector	Polarization
552.3	-97.0	30.9	-66.1	-13.0	-53.1	Average	Horizontal
690.6	-100.6	33.1	-67.5	-13.0	-54.5	Average	Horizontal
40.7	-89.4	20.3	-69.1	-13.0	-56.1	Average	Vertical
690.1	-97.5	32.8	-64.7	-13.0	-51.7	Average	Vertical
10783.5	-81.6	31.6	-50.0	-13.0	-37.0	Average	Horizontal
17847.0	-85.5	43.6	-41.9	-13.0	-28.9	Average	Horizontal
10554.0	-81.6	32.4	-49.2	-13.0	-36.2	Average	Vertical
17830.0	-83.7	41.7	-42.0	-13.0	-29.0	Average	Vertical
30199.0	-55.9	13.2	-42.7	-13.0	-29.7	Average	Horizontal
39956.0	-56.7	26.9	-29.8	-13.0	-16.8	Average	Horizontal
34643.0	-54.8	15.8	-39.0	-13.0	-26.0	Average	Vertical
39538.0	-54.0	26.1	-27.9	-13.0	-14.9	Average	Vertical

Note 1: Measure Level (dBm) = Reading Level (dBm) + Factor (dB)

Note 2: Factor (dB) = Cable Loss (dB) + Space Attenuation (dB) + Antenna Factor (dB/m)

Note 3: For 18GHz~40GHz, the Emission Power in dBm was converted by the equivalent formula: EIRP[dBm] = E[dBμV/m] - 95.2

Note 4: There is the ambient noise within frequency range 9kHz~30MHz and 40GHz~75GHz, the permissible value is not show in the report.

Product	Flat Panel Integrated Satellite Communication Terminal	Temperature	25℃
Test Engineer	Bruce Wang	Relative Humidity	54%
Test Site	AC1	Test Date	2019/08/13
Test Mode	Transmit at channel 14250MHz (Modulation: 21/44 OQPSK, Data Rate: 2863.636kbps)		

Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector	Polarization
552.3	-97.0	30.9	-66.1	-13.0	-53.1	Average	Horizontal
690.6	-99.8	33.1	-66.7	-13.0	-53.7	Average	Horizontal
40.7	-89.0	20.3	-68.7	-13.0	-55.7	Average	Vertical
690.6	-97.6	32.8	-64.8	-13.0	-51.8	Average	Vertical
10520.0	-82.1	32.0	-50.1	-13.0	-37.1	Average	Horizontal
17847.0	-85.8	43.6	-42.2	-13.0	-29.2	Average	Horizontal
10792.0	-82.0	32.0	-50.0	-13.0	-37.0	Average	Vertical
17830.0	-84.0	41.7	-42.3	-13.0	-29.3	Average	Vertical
29638.0	-56.4	13.6	-42.8	-13.0	-29.8	Average	Horizontal
39505.0	-55.7	26.1	-29.6	-13.0	-16.6	Average	Horizontal
29143.0	-56.6	13.9	-42.7	-13.0	-29.7	Average	Vertical
39989.0	-56.7	27.0	-29.7	-13.0	-16.7	Average	Vertical

Note 1: Measure Level (dBm) = Reading Level (dBm) + Factor (dB)

Note 2: Factor (dB) = Cable Loss (dB) + Space Attenuation (dB) + Antenna Factor (dB/m)

Note 3: For 18GHz~40GHz, the Emission Power in dBm was converted by the equivalent formula: EIRP[dBm] = E[dBμV/m] - 95.2

Note 4: There is the ambient noise within frequency range 9kHz~30MHz and 40GHz~75GHz, the permissible value is not show in the report.

7. CONCLUSION

The data collected relate only the item(s) tested and show that the device is in compliance with Part 25 of the FCC rules.

The End

Appendix A - Test Setup Photograph

Refer to “1907RSU030-UT” file.

Appendix B - EUT Photograph

Refer to “1907RSU030-UE” file.