

Spurious Emissions (Tx Radiated) - Continued

Open Area Test Site Results:

12.5 kHz Channel Spacing	469.975 MHz @ 4 W	Emission Mask D
Harmonics Emission Frequency (MHz)	Level (dBm)	Level (dBc)
859.950	-63.64	-99.66
1289.925	-40.55	-76.57
1719.900	-74.06	-110.08
2149.875	-66.70	-102.72
2579.850	-68.43	-104.45
3009.825	-58.35	-94.37

Sample Calculation

	Measurement				Result	
	Reference	Substitution				
Emission Frequency (MHz)	Reference Level (dBm)	Sig-gen Level	Cable and Attenuator Gain	Antenna Gain (dBd)	dBm	dBc
859.950	-97.2	-52.8	-16.09	5.25	-63.64	-99.66
		A	B	C	E	

$$\text{Result (E)} = A + B + C$$

Photo: OATS Setup



TRANSIENT FREQUENCY BEHAVIOR

SPECIFICATION: FCC 47 CFR 90.214

RSS-119 5.9

GUIDE: ANSI C63.26 6.5.2.2

MEASUREMENT PROCEDURE:

1. Refer Annex A for equipment set up.
2. Measurements and plots were made following the ANSI procedure.

MEASUREMENT UNCERTAINTY: 130Hz

MEASUREMENT RESULTS:

See the tables and plots on the following pages for 12.5 kHz channel spacing.

LIMIT CLAUSES: FCC 47 CFR 90.214

RSS-119 5.9

Transient Frequency Behaviour

SPECIFICATION: FCC 47 CFR 90.214

RSS-119 5.9

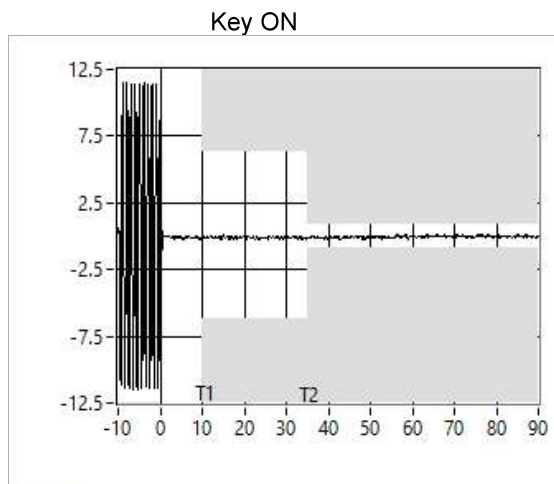
Tx FREQUENCY: 406.125 MHz

4 W

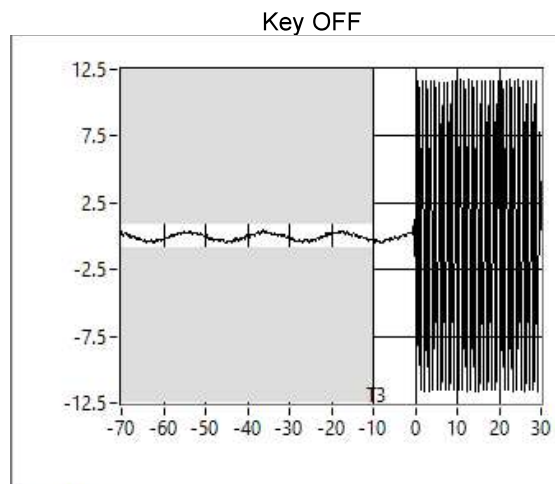
12.5 kHz Channel Spacing

TRANSIENT RESPONSE PERIOD	CARRIER PEAK VARIATION FROM NORMAL	
	Key ON (kHz)	Key OFF (kHz)
t1	-1.0	N/A
t2	-0.3	N/A
t3	N/A	1.2

Confirm that during periods t1 and t3 the frequency difference does not exceed the value of one channel separation.	YES	NO
	✓	☐
Confirm that during the period t2 the frequency difference does not exceed half a channel separation.	YES	NO
	✓	☐
Confirm that during the period t2 to t3 the frequency difference does not exceed the frequency error limit.	YES	NO
	✓	☐



TARF 4467
406.125000MHz 4Watts 12.50kHz Channel spacing



TARF 4467
406.125000MHz 4Watts 12.50kHz Channel spacing

Transient Frequency Behaviour

SPECIFICATION: FCC 47 CFR 90.214

RSS-119 5.9

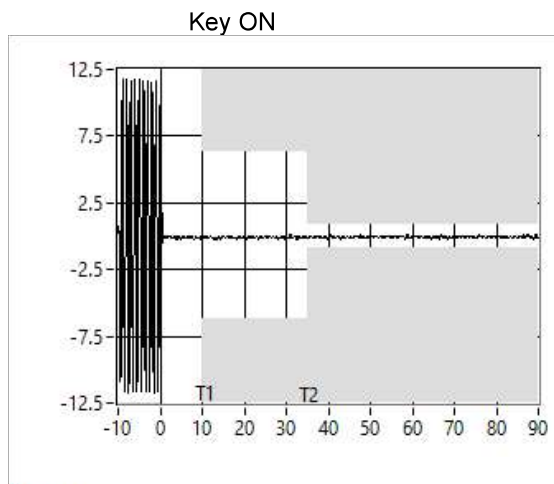
Tx FREQUENCY: 418.025 MHz

4 W

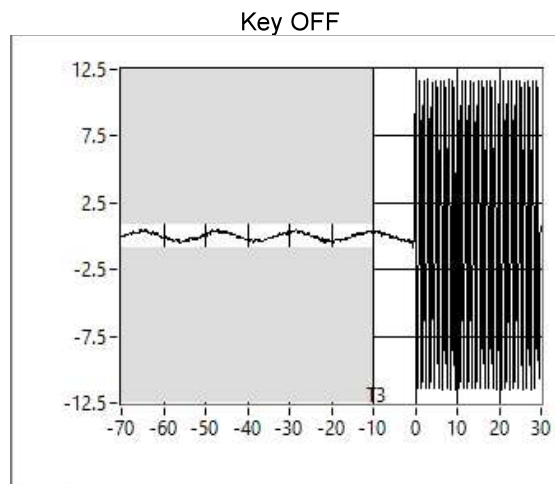
12.5 kHz Channel Spacing

TRANSIENT RESPONSE PERIOD	CARRIER PEAK VARIATION FROM NORMAL	
	Key ON (kHz)	Key OFF (kHz)
t1	-0.5	N/A
t2	-0.3	N/A
t3	N/A	7.5

Confirm that during periods t1 and t3 the frequency difference does not exceed the value of one channel separation.	YES	NO
	✓	☐
Confirm that during the period t2 the frequency difference does not exceed half a channel separation.	YES	NO
	✓	☐
Confirm that during the period t2 to t3 the frequency difference does not exceed the frequency error limit.	YES	NO
	✓	☐



TARF 4467
418.025000MHz 4Watts 12.50kHz Channel spacing



TARF 4467
418.025000MHz 4Watts 12.50kHz Channel spacing

Transient Frequency Behaviour

SPECIFICATION: FCC 47 CFR 90.214

RSS-119 5.9

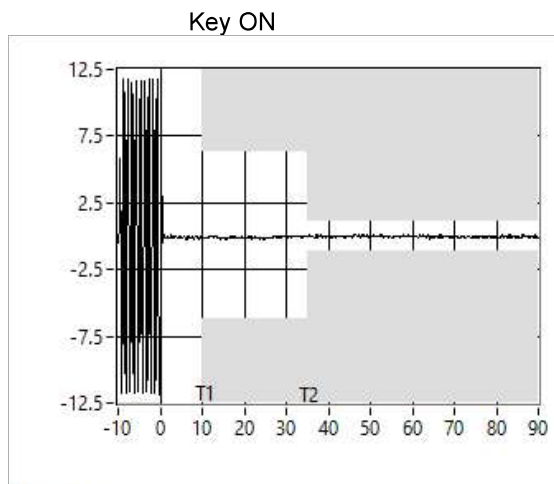
Tx FREQUENCY: 429.975 MHz

4 W

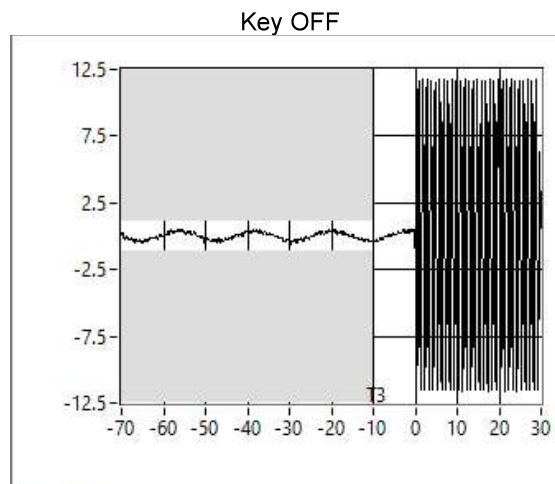
12.5 kHz Channel Spacing

TRANSIENT RESPONSE PERIOD	CARRIER PEAK VARIATION FROM NORMAL	
	Key ON (kHz)	Key OFF (kHz)
t1	0.9	N/A
t2	-0.3	N/A
t3	N/A	0.5

Confirm that during periods t1 and t3 the frequency difference does not exceed the value of one channel separation.	YES	NO
	✓	☐
Confirm that during the period t2 the frequency difference does not exceed half a channel separation.	YES	NO
	✓	☐
Confirm that during the period t2 to t3 the frequency difference does not exceed the frequency error limit.	YES	NO
	✓	☐



TARF 4467
429.975000MHz 4Watts 12.50kHz Channel spacing



TARF 4467
429.975000MHz 4Watts 12.50kHz Channel spacing

Transient Frequency Behaviour

SPECIFICATION: FCC 47 CFR 90.214

RSS-119 5.9

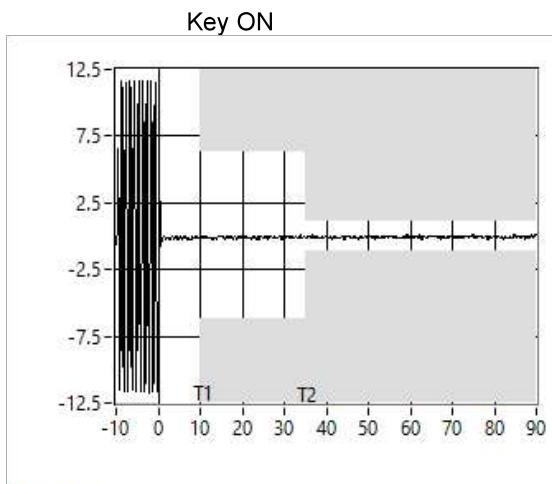
Tx FREQUENCY: 450.025 MHz

4 W

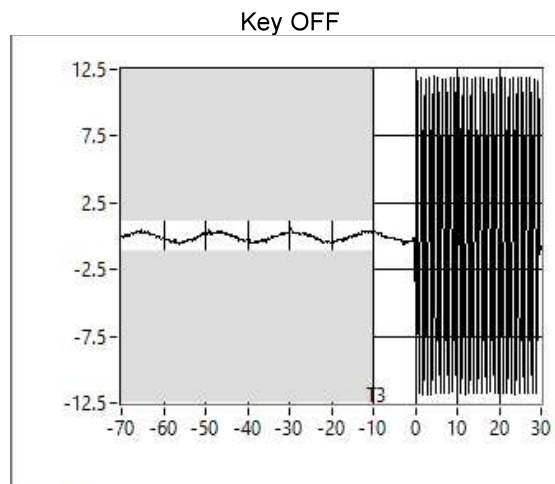
12.5 kHz Channel Spacing

TRANSIENT RESPONSE PERIOD	CARRIER PEAK VARIATION FROM NORMAL	
	Key ON (kHz)	Key OFF (kHz)
t1	0.9	N/A
t2	-0.2	N/A
t3	N/A	-2.9

Confirm that during periods t1 and t3 the frequency difference does not exceed the value of one channel separation.	YES	NO
	✓	☐
Confirm that during the period t2 the frequency difference does not exceed half a channel separation.	YES	NO
	✓	☐
Confirm that during the period t2 to t3 the frequency difference does not exceed the frequency error limit.	YES	NO
	✓	☐



TARF 4467
450.025000MHz 4Watts 12.50kHz Channel spacing



TARF 4467
450.025000MHz 4Watts 12.50kHz Channel spacing

Transient Frequency Behaviour

SPECIFICATION: FCC 47 CFR 90.214

RSS-119 5.9

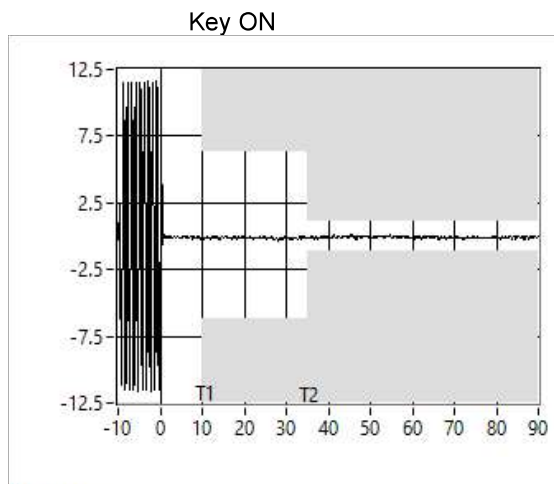
Tx FREQUENCY: 460.025 MHz

4 W

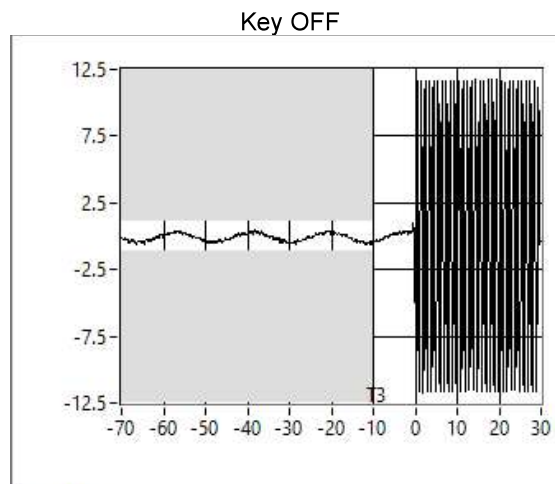
12.5 kHz Channel Spacing

TRANSIENT RESPONSE PERIOD	CARRIER PEAK VARIATION FROM NORMAL	
	Key ON (kHz)	Key OFF (kHz)
t1	-0.6	N/A
t2	-0.3	N/A
t3	N/A	-4.7

Confirm that during periods t1 and t3 the frequency difference does not exceed the value of one channel separation.	YES	NO
	✓	☐
Confirm that during the period t2 the frequency difference does not exceed half a channel separation.	YES	NO
	✓	☐
Confirm that during the period t2 to t3 the frequency difference does not exceed the frequency error limit.	YES	NO
	✓	☐



TARF 4467
460.025000MHz 4Watts 12.50kHz Channel spacing



TARF 4467
460.025000MHz 4Watts 12.50kHz Channel spacing

Transient Frequency Behaviour

SPECIFICATION: FCC 47 CFR 90.214

RSS-119 5.9

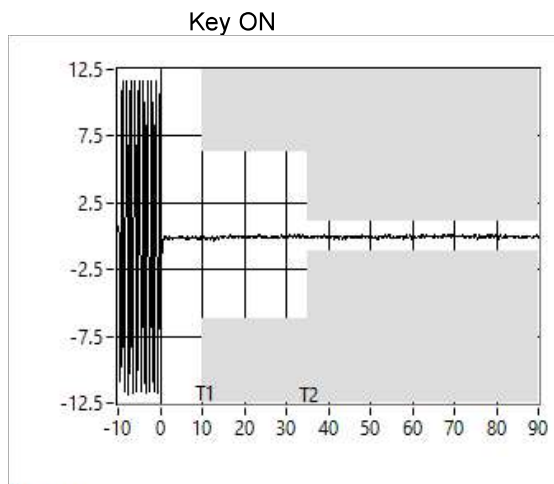
Tx FREQUENCY: 469.975 MHz

4 W

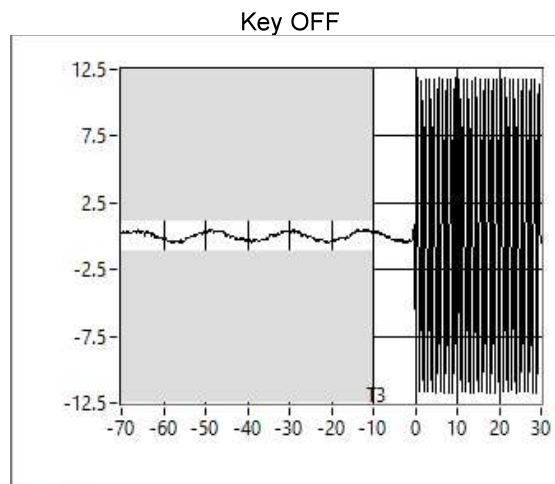
12.5 kHz Channel Spacing

TRANSIENT RESPONSE PERIOD	CARRIER PEAK VARIATION FROM NORMAL	
	Key ON (kHz)	Key OFF (kHz)
t1	-1.2	N/A
t2	-0.3	N/A
t3	N/A	-3.1

Confirm that during periods t1 and t3 the frequency difference does not exceed the value of one channel separation.	YES	NO
	✓	☐
Confirm that during the period t2 the frequency difference does not exceed half a channel separation.	YES	NO
	✓	☐
Confirm that during the period t2 to t3 the frequency difference does not exceed the frequency error limit.	YES	NO
	✓	☐



TARF 4467
469.975000MHz 4Watts 12.50kHz Channel spacing



TARF 4467
469.975000MHz 4Watts 12.50kHz Channel spacing

Transient Frequency Behaviour

SPECIFICATION: FCC 47 CFR 90.214

RSS-119 5.9

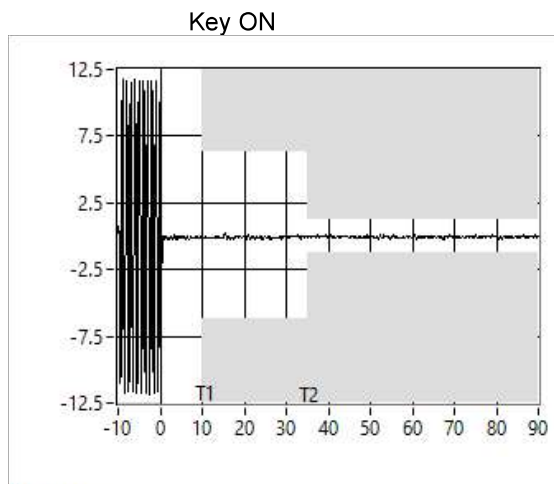
Tx FREQUENCY: 479.975 MHz

4 W

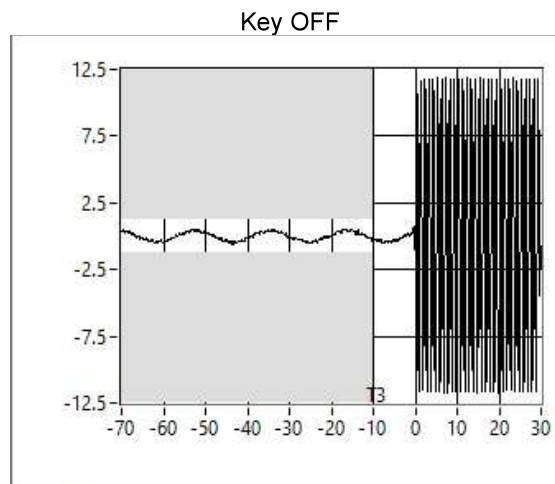
12.5 kHz Channel Spacing

TRANSIENT RESPONSE PERIOD	CARRIER PEAK VARIATION FROM NORMAL	
	Key ON (kHz)	Key OFF (kHz)
t1	-1.4	N/A
t2	-0.3	N/A
t3	N/A	-1.0

Confirm that during periods t1 and t3 the frequency difference does not exceed the value of one channel separation.	YES	NO
	✓	☐
Confirm that during the period t2 the frequency difference does not exceed half a channel separation.	YES	NO
	✓	☐
Confirm that during the period t2 to t3 the frequency difference does not exceed the frequency error limit.	YES	NO
	✓	☐



TARF 4467
479.975000MHz 4Watts 12.50kHz Channel spacing



TARF 4467
479.975000MHz 4Watts 12.50kHz Channel spacing

Transient Frequency Behaviour

SPECIFICATION: FCC 47 CFR 90.214

RSS-119 5.9

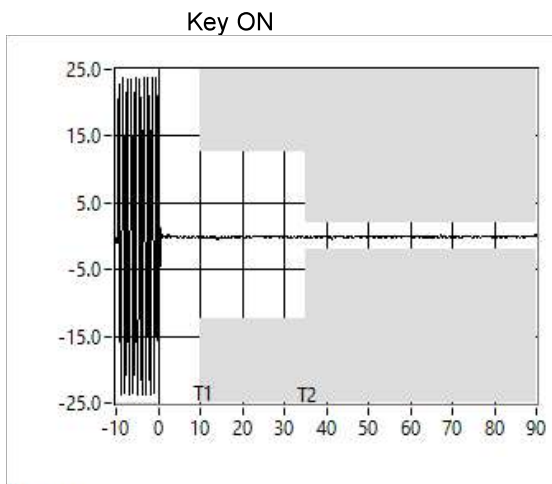
Tx FREQUENCY: 406.125 MHz

4 W

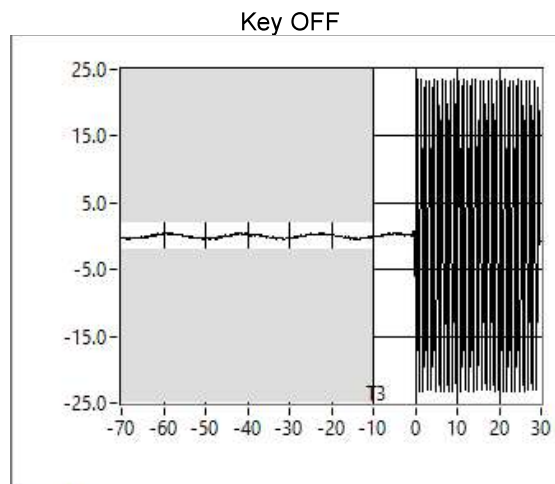
25.0 kHz Channel Spacing

TRANSIENT RESPONSE PERIOD	CARRIER PEAK VARIATION FROM NORMAL	
	Key ON (kHz)	Key OFF (kHz)
t1	1.2	N/A
t2	-0.5	N/A
t3	N/A	-5.2

Confirm that during periods t1 and t3 the frequency difference does not exceed the value of one channel separation.	YES	NO
	✓	☐
Confirm that during the period t2 the frequency difference does not exceed half a channel separation.	YES	NO
	✓	☐
Confirm that during the period t2 to t3 the frequency difference does not exceed the frequency error limit.	YES	NO
	✓	☐



TARF 4467
406.125000MHz 4Watts 25.00kHz Channel spacing



TARF 4467
406.125000MHz 4Watts 25.00kHz Channel spacing

Transient Frequency Behaviour

SPECIFICATION: FCC 47 CFR 90.214

RSS-119 5.9

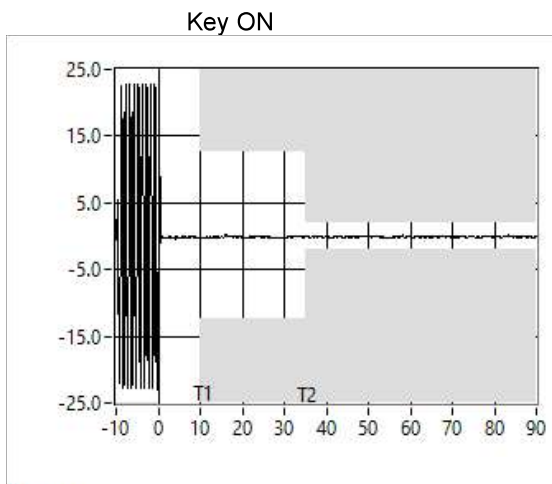
Tx FREQUENCY: 418.025 MHz

4 W

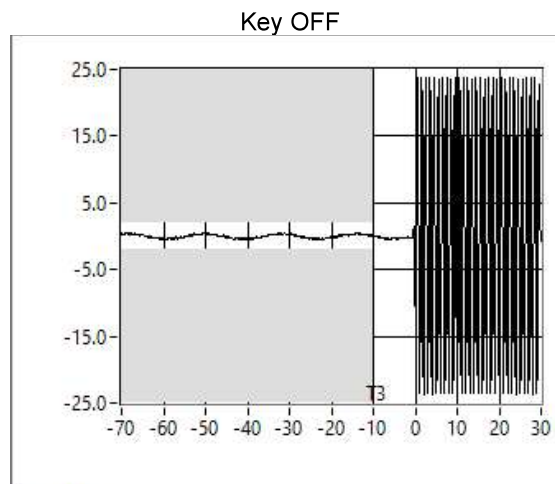
25.0 kHz Channel Spacing

TRANSIENT RESPONSE PERIOD	CARRIER PEAK VARIATION FROM NORMAL	
	Key ON (kHz)	Key OFF (kHz)
t1	2.4	N/A
t2	0.4	N/A
t3	N/A	-5.3

Confirm that during periods t1 and t3 the frequency difference does not exceed the value of one channel separation.	YES	NO
	✓	☐
Confirm that during the period t2 the frequency difference does not exceed half a channel separation.	YES	NO
	✓	☐
Confirm that during the period t2 to t3 the frequency difference does not exceed the frequency error limit.	YES	NO
	✓	☐



TARF 4467
418.025000MHz 4Watts 25.00kHz Channel spacing



TARF 4467
418.025000MHz 4Watts 25.00kHz Channel spacing

Transient Frequency Behaviour

SPECIFICATION: FCC 47 CFR 90.214

RSS-119 5.9

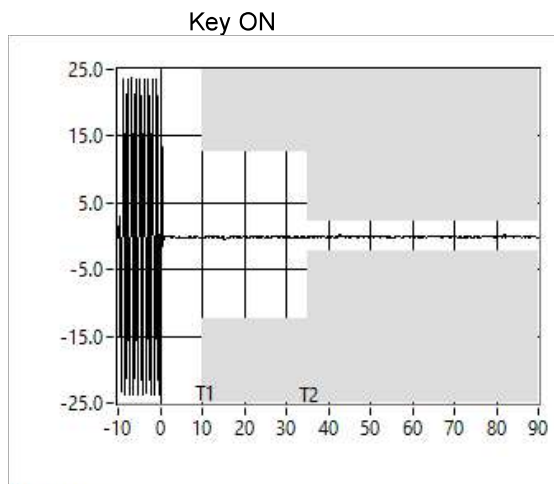
Tx FREQUENCY: 429.975 MHz

4 W

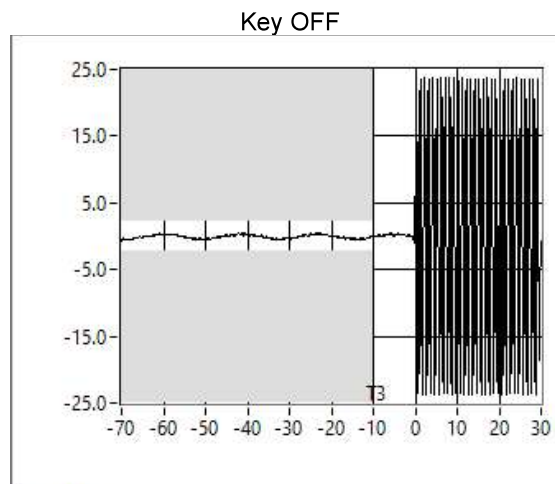
25.0 kHz Channel Spacing

TRANSIENT RESPONSE PERIOD	CARRIER PEAK VARIATION FROM NORMAL	
	Key ON (kHz)	Key OFF (kHz)
t1	-1.5	N/A
t2	-0.6	N/A
t3	N/A	2.2

Confirm that during periods t1 and t3 the frequency difference does not exceed the value of one channel separation.	YES	NO
	✓	☐
Confirm that during the period t2 the frequency difference does not exceed half a channel separation.	YES	NO
	✓	☐
Confirm that during the period t2 to t3 the frequency difference does not exceed the frequency error limit.	YES	NO
	✓	☐



TARF 4467
429.975000MHz 4Watts 25.00kHz Channel spacing



TARF 4467
429.975000MHz 4Watts 25.00kHz Channel spacing

Transient Frequency Behaviour

SPECIFICATION: FCC 47 CFR 90.214

RSS-119 5.9

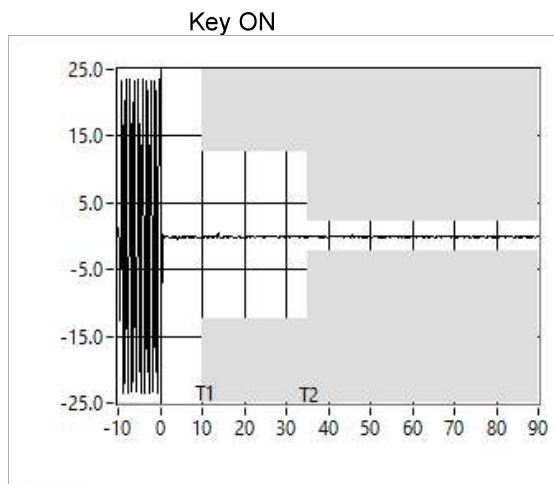
Tx FREQUENCY: 450.025 MHz

4 W

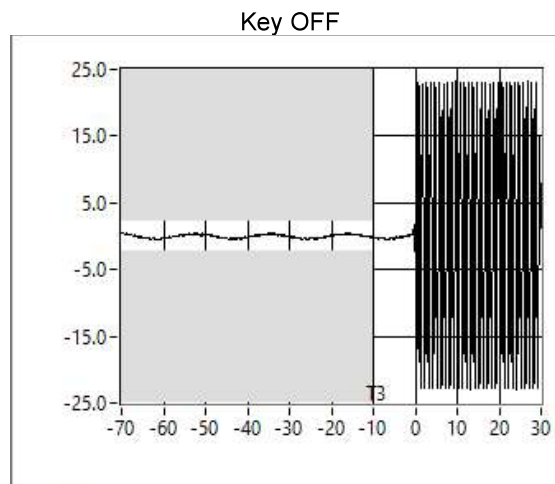
25.0 kHz Channel Spacing

TRANSIENT RESPONSE PERIOD	CARRIER PEAK VARIATION FROM NORMAL	
	Key ON (kHz)	Key OFF (kHz)
t1	-3.8	N/A
t2	0.4	N/A
t3	N/A	1.8

Confirm that during periods t1 and t3 the frequency difference does not exceed the value of one channel separation.	YES	NO
	✓	☐
Confirm that during the period t2 the frequency difference does not exceed half a channel separation.	YES	NO
	✓	☐
Confirm that during the period t2 to t3 the frequency difference does not exceed the frequency error limit.	YES	NO
	✓	☐



TARF 4467
450.025000MHz 4Watts 25.00kHz Channel spacing



TARF 4467
450.025000MHz 4Watts 25.00kHz Channel spacing

Transient Frequency Behaviour

SPECIFICATION: FCC 47 CFR 90.214

RSS-119 5.9

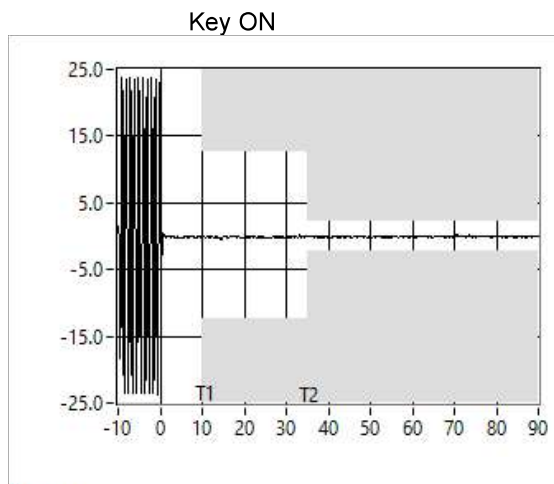
Tx FREQUENCY: 460.025 MHz

4 W

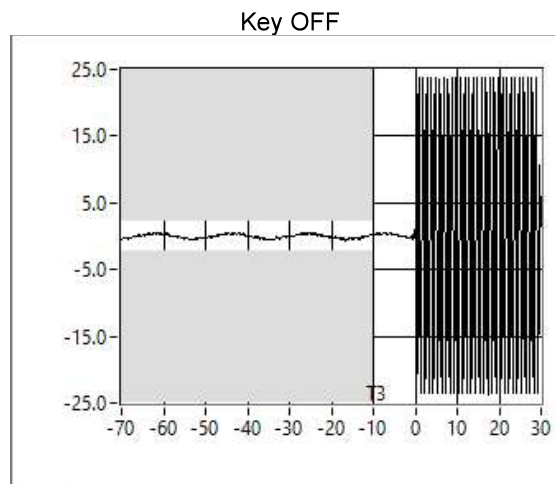
25.0 kHz Channel Spacing

TRANSIENT RESPONSE PERIOD	CARRIER PEAK VARIATION FROM NORMAL	
	Key ON (kHz)	Key OFF (kHz)
t1	-2.2	N/A
t2	-0.4	N/A
t3	N/A	1.0

Confirm that during periods t1 and t3 the frequency difference does not exceed the value of one channel separation.	YES	NO
	✓	☐
Confirm that during the period t2 the frequency difference does not exceed half a channel separation.	YES	NO
	✓	☐
Confirm that during the period t2 to t3 the frequency difference does not exceed the frequency error limit.	YES	NO
	✓	☐



TARF 4467
460.025000MHz 4Watts 25.00kHz Channel spacing



TARF 4467
460.025000MHz 4Watts 25.00kHz Channel spacing

Transient Frequency Behaviour

SPECIFICATION: FCC 47 CFR 90.214

RSS-119 5.9

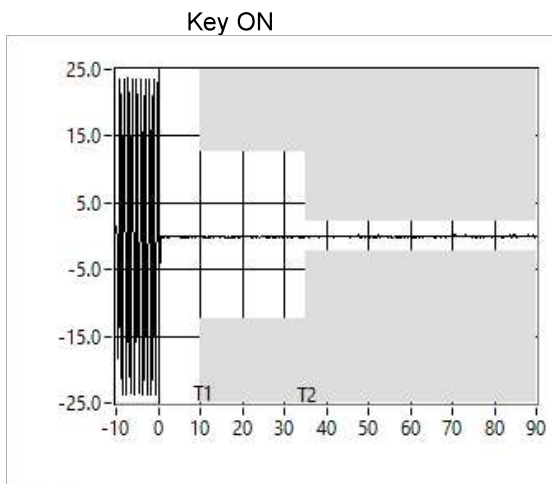
Tx FREQUENCY: 469.975 MHz

4 W

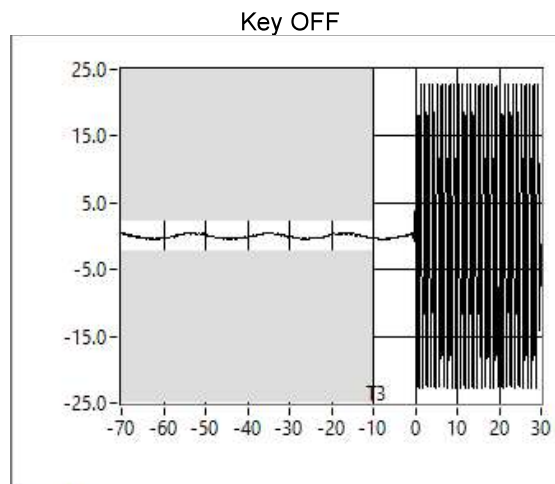
25.0 kHz Channel Spacing

TRANSIENT RESPONSE PERIOD	CARRIER PEAK VARIATION FROM NORMAL	
	Key ON (kHz)	Key OFF (kHz)
t1	-3.2	N/A
t2	-0.3	N/A
t3	N/A	1.1

Confirm that during periods t1 and t3 the frequency difference does not exceed the value of one channel separation.	YES	NO
	✓	☐
Confirm that during the period t2 the frequency difference does not exceed half a channel separation.	YES	NO
	✓	☐
Confirm that during the period t2 to t3 the frequency difference does not exceed the frequency error limit.	YES	NO
	✓	☐



TARF 4467
469.975000MHz 4Watts 25.00kHz Channel spacing



TARF 4467
469.975000MHz 4Watts 25.00kHz Channel spacing

Transient Frequency Behaviour

SPECIFICATION: FCC 47 CFR 90.214

RSS-119 5.9

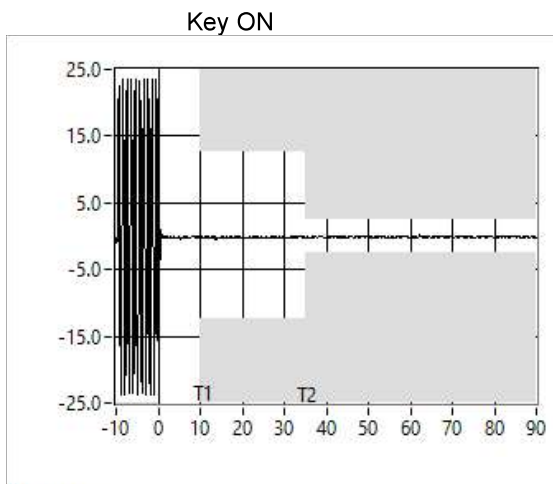
Tx FREQUENCY: 479.975 MHz

4 W

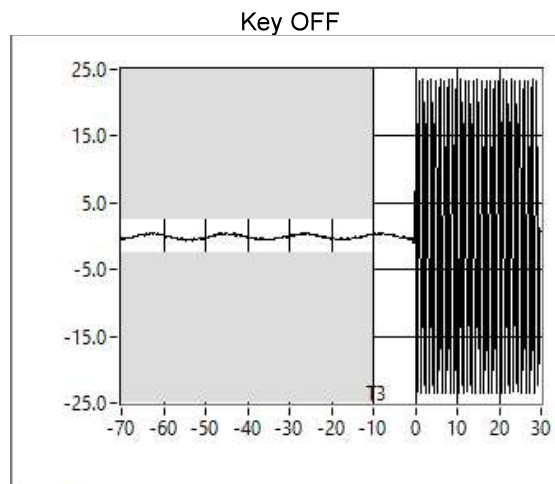
25.0 kHz Channel Spacing

TRANSIENT RESPONSE PERIOD	CARRIER PEAK VARIATION FROM NORMAL	
	Key ON (kHz)	Key OFF (kHz)
t1	0.9	N/A
t2	-0.5	N/A
t3	N/A	5.8

Confirm that during periods t1 and t3 the frequency difference does not exceed the value of one channel separation.	YES	NO
	✓	☐
Confirm that during the period t2 the frequency difference does not exceed half a channel separation.	YES	NO
	✓	☐
Confirm that during the period t2 to t3 the frequency difference does not exceed the frequency error limit.	YES	NO
	✓	☐



TARF 4467
479.975000MHz 4Watts 25.00kHz Channel spacing



TARF 4467
479.975000MHz 4Watts 25.00kHz Channel spacing

Transient Frequency Behaviour

LIMIT: FCC 47 CFR 90.214

TRANSIENT PERIODS	FREQUENCY RANGE	
	150 MHz – 174 MHz	421 MHz – 512 MHz
t1 (ms)	5 ms	10 ms
t2 (ms)	20 ms	25 ms
t3 (ms)	5 ms	10 ms

LIMIT: RSS-119 5.9

Transient Frequency Behaviour for Equipment Designed to Operate on 12.5 kHz Channels			
TRANSIENT PERIODS	Maximum Frequency Difference	FREQUENCY RANGE	
		138 – 174 MHz	406.1 – 470 MHz
t1 (ms)	± 12.5 kHz	5 ms	10 ms
t2 (ms)	± 6.25 kHz	20 ms	25 ms
t3 (ms)	± 12.5 kHz	5 ms	10 ms

Note: RSS-119 5.9 - If the transmitter carrier output power rating is 6 Watts or less, the frequency difference during the time periods t1 and t3 may exceed the maximum frequency difference for these time periods.

TRANSMITTER FREQUENCY STABILITY - TEMPERATURE

SPECIFICATION: FCC 47 CFR 2.1055 (a) (1)

RSS-119 5.3

GUIDE: ANSI C63.26 5.6.4

MEASUREMENT PROCEDURE:

1. Refer Annex A for equipment set up.
2. The EUT was tested for frequency error from -30°C to $+50^{\circ}\text{C}$ in 10°C increments
3. The frequency error was recorded in parts per million (ppm).

MEASUREMENT UNCERTAINTY: $\pm 0.05\text{ppm}$

MEASUREMENT RESULTS:

See the plots on the following pages for 12.5 kHz channel spacing.

Temperature ($^{\circ}\text{C}$)	Error (ppm)						
	406.125 MHz	418.025 MHz	429.975 MHz	450.025 MHz	460.025 MHz	469.975 MHz	479.975 MHz
-30	-0.15	-0.17	-0.12	-0.13	-0.15	-0.15	-0.15
-20	-0.10	-0.12	-0.09	-0.09	-0.11	-0.09	-0.10
-10	-0.07	-0.10	-0.05	-0.07	-0.07	-0.04	-0.06
0	-0.10	-0.12	-0.12	-0.13	-0.13	-0.15	-0.17
10	-0.17	-0.19	-0.16	-0.18	-0.20	-0.17	-0.23
20	-0.12	-0.05	0.05	0.02	0.02	0.02	-0.02
30	-0.10	-0.07	-0.05	-0.02	-0.02	0.02	0.04
40	0.05	0.02	0.02	0.04	-0.02	-0.02	-0.02
50	-0.05	-0.10	-0.02	-0.07	-0.09	-0.09	-0.08

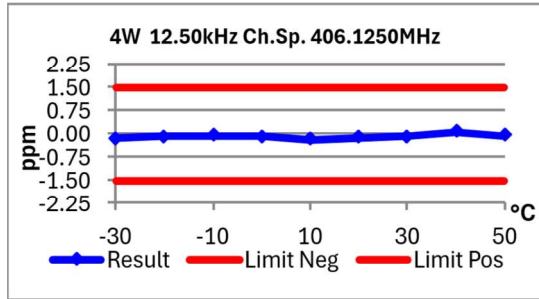
LIMIT: FCC 47 CFR 90.213

RSS-119 5.3

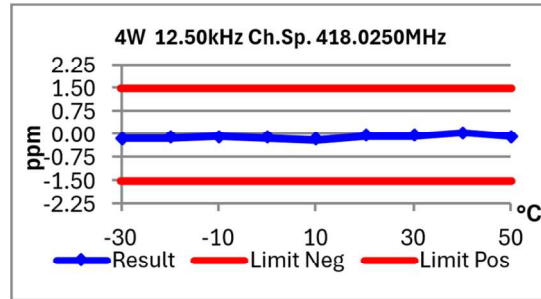
Channel Spacing (kHz)	Frequency Error (ppm)
12.5	1.5

Transmitter Frequency Stability - Temperature

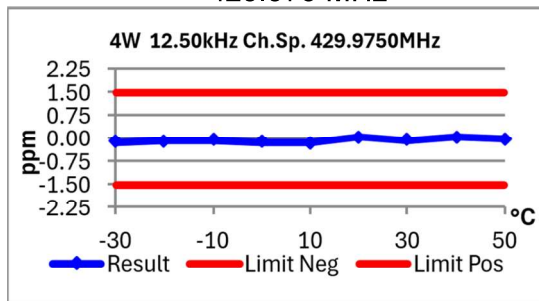
406.125 MHz



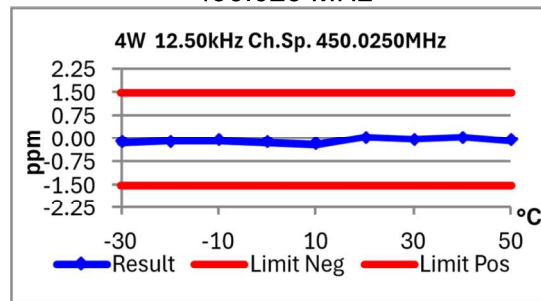
418.025 MHz



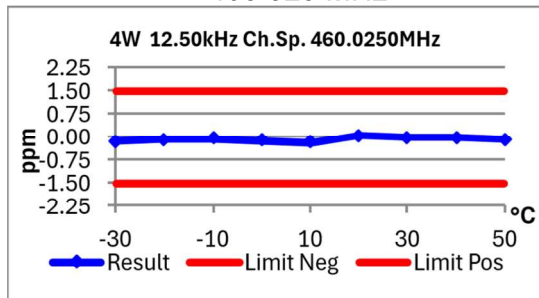
429.975 MHz



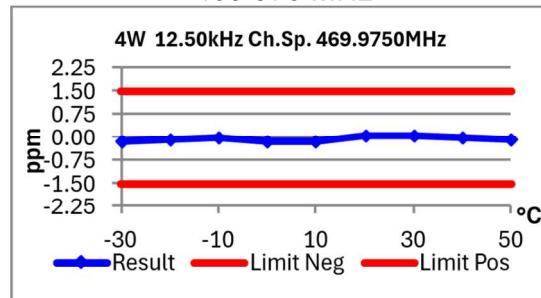
450.025 MHz



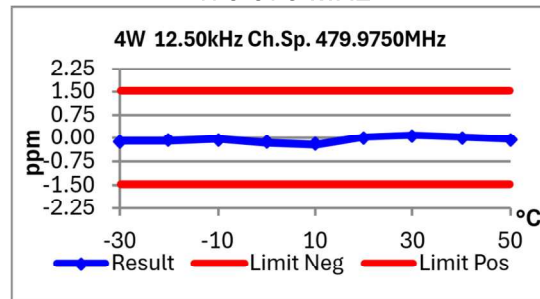
460.025 MHz



469.975 MHz



479.975 MHz



TRANSMITTER FREQUENCY STABILITY - VOLTAGE

SPECIFICATION: FCC 47 CFR 2.1055 (d) (1)

RSS-119 5.3

GUIDE: ANSI C63.26 5.6.5

MEASUREMENT PROCEDURE:

1. Refer Annex A for equipment set up.
2. The EUT was tested for frequency error at an input voltage to the radio of 85% to 115%.
3. The frequency error was recorded in parts per million (ppm).

MEASUREMENT UNCERTAINTY: $\pm 0.05\text{ppm}$

MEASUREMENT RESULTS:

	FREQUENCY ERROR (ppm) 12.5 kHz Ch. Spacing, 4 W Tx Power	
	6.38 V _{DC}	7.50 V _{DC}
406.125 MHz	-0.07	-0.03
418.025 MHz	0.03	0.06
429.975 MHz	0.11	0.12
450.025 MHz	0.10	0.10
460.025 MHz	0.09	0.09
469.975 MHz	0.09	0.09
479.975 MHz	0.06	0.06

LIMIT CLAUSES: FCC 47 CFR 90.213

RSS-119 5.3

Channel Spacing (kHz)	Frequency Error (ppm)
12.5	2.5

RECEIVER SPURIOUS EMISSIONS (CONDUCTED)

SPECIFICATION: FCC 47CFR 15.111

RSS-Gen 7.4

GUIDE: ANSI C63.26 5.7

MEASUREMENT PROCEDURE:

1. Refer Annex A for Equipment set up diagram.
2. The frequency range examined was from 30 MHz to 3 times highest tunable frequency.
3. Spurious emissions which were attenuated more than 20 dB below the limit were not recorded.
4. A scan is performed with a resolution bandwidth of 100 kHz and a video bandwidth of 300 kHz for frequencies up to 1 GHz, and a resolution bandwidth of 1 MHz and a video bandwidth of 3 MHz for frequencies above 1 GHz
5. For each frequency range the spectrum analyser was loaded with the appropriate calibration figures to compensate for the cables and attenuator losses allowing the emission levels to be read directly with no further calculation.
The calibrations are loaded as an overall reference level offset plus a set of correction factors for the required frequency band.

Spurious emissions which were attenuated by more than 20 dB below the limit were not recorded.

Example of attenuation correction: (dB)

E3673 20dB 25W BD5871	19.85	
E5015 3m Blue	1.06	
E3384 400_520MHz HPBRF	6.37	
Total Attenuation @ 812.250 MHz	27.29	Sum of component attenuation (a)
Amplitude offset	28.12	(b)
Correction @ 812.250MHz	-0.83	(a-b)

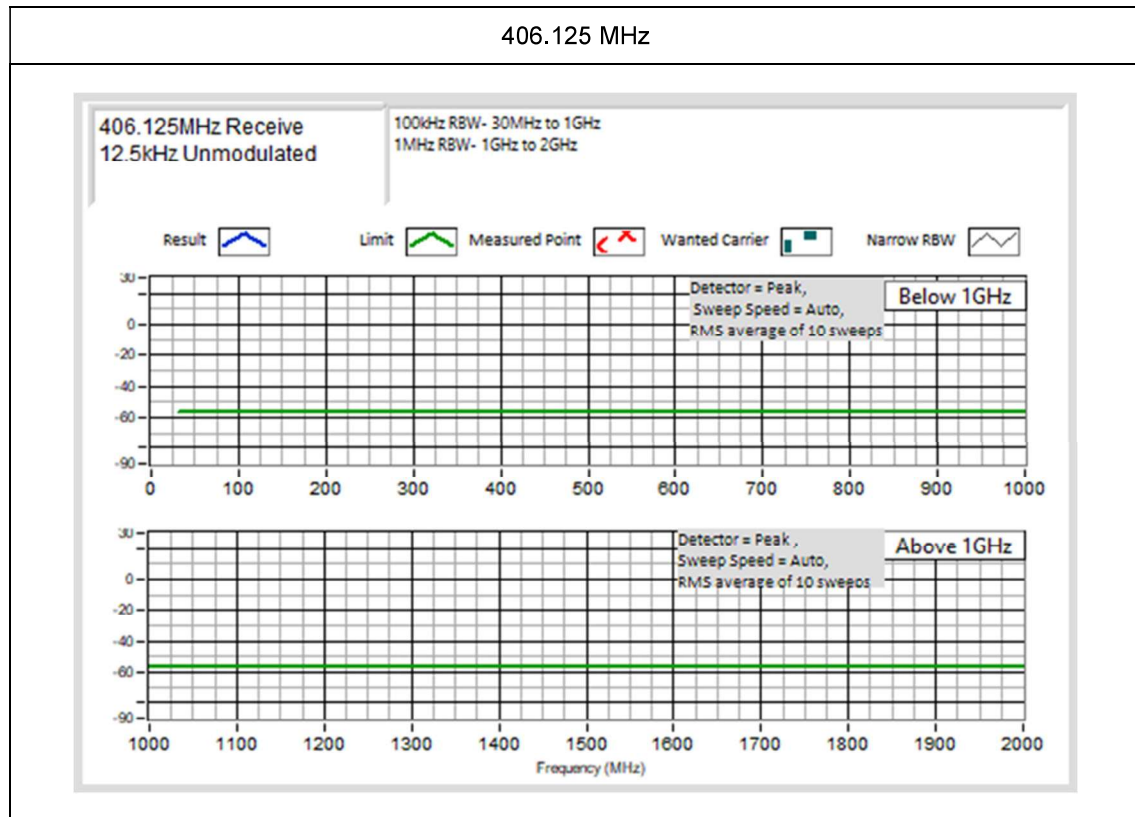
MEASUREMENT UNCERTAINTY: $\pm 2.8\text{dB}$

LIMIT CLAUSE: RSS-Gen 7.4

LIMIT	30 $\rightarrow$ 1000 MHz	2 nW	- 57 dBm
	> 1000 MHz	5 nW	- 53 dBm

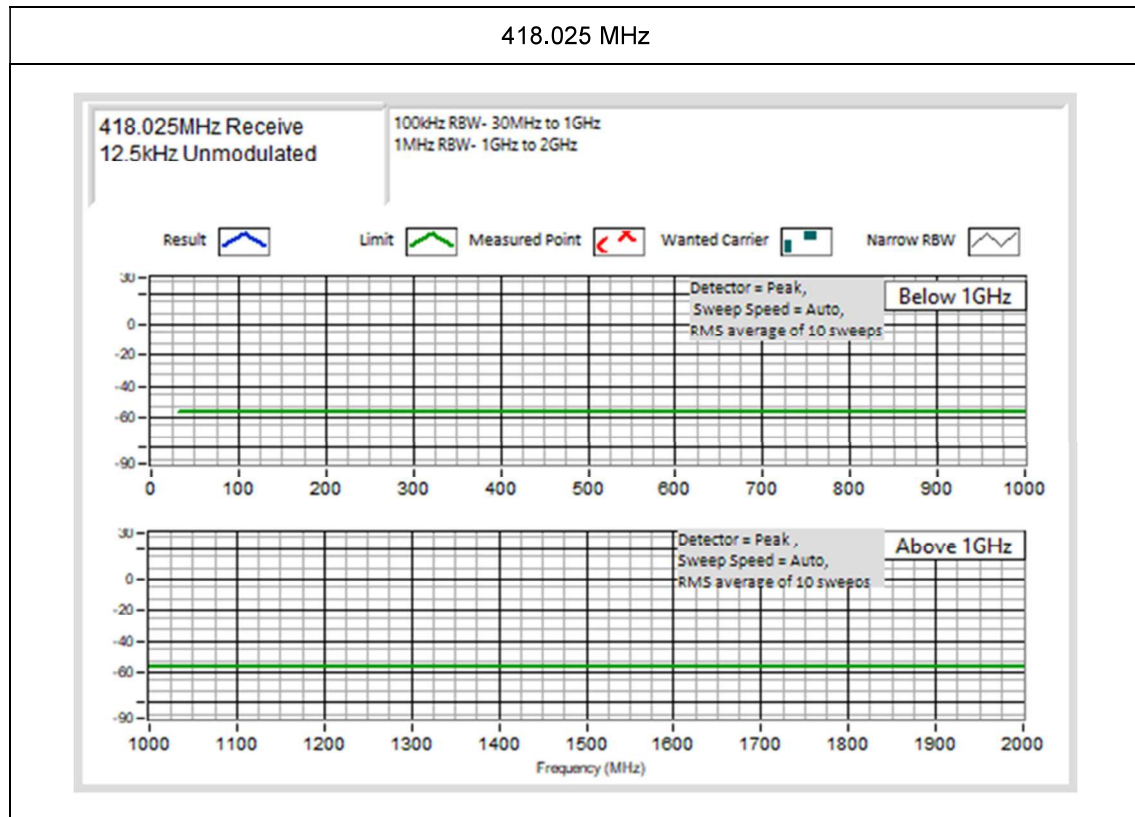
Receiver Spurious Emissions (Conducted) – Continued

406.125 MHz Receive / Tx Standby		
Emission Frequency (MHz)	Level (nW)	Level (dBm)
~	~	~
No emissions were detected within 20 dB of the limit.		



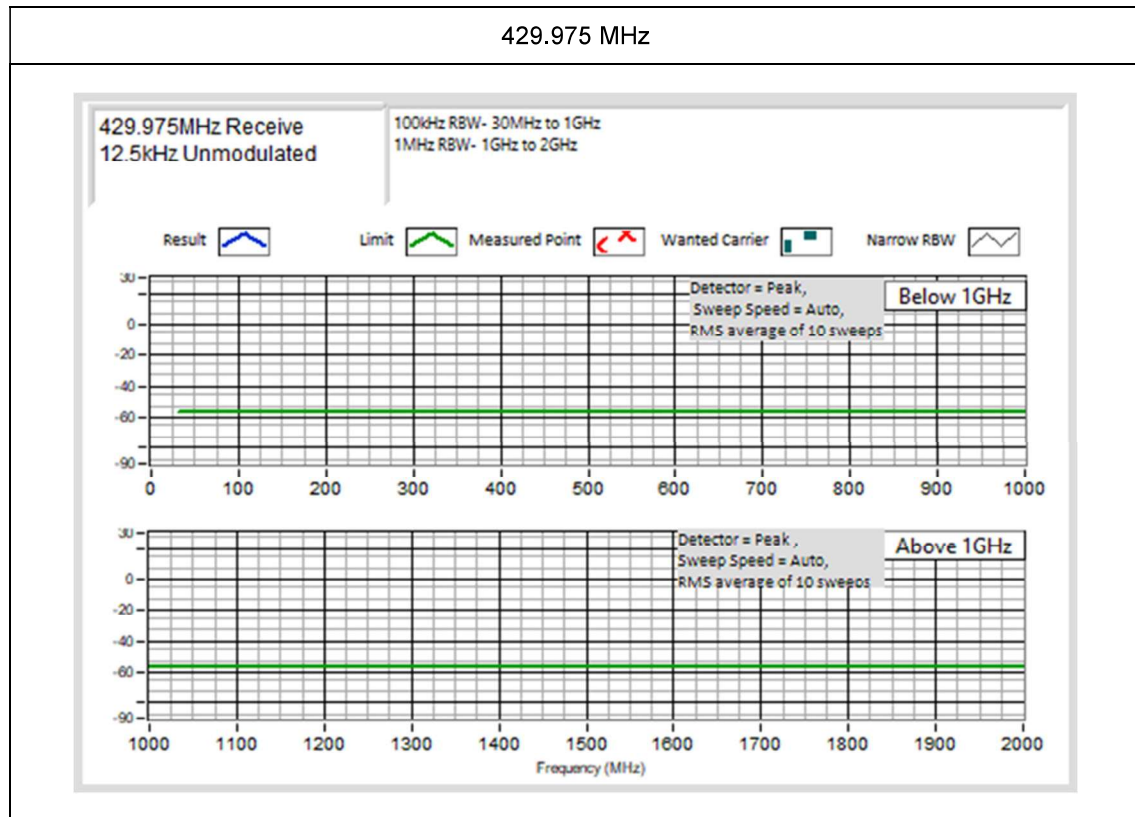
Receiver Spurious Emissions (Conducted) – Continued

418.025 MHz Receive / Tx Standby		
Emission Frequency (MHz)	Level (nW)	Level (dBm)
~	~	~
No emissions were detected within 20 dB of the limit.		



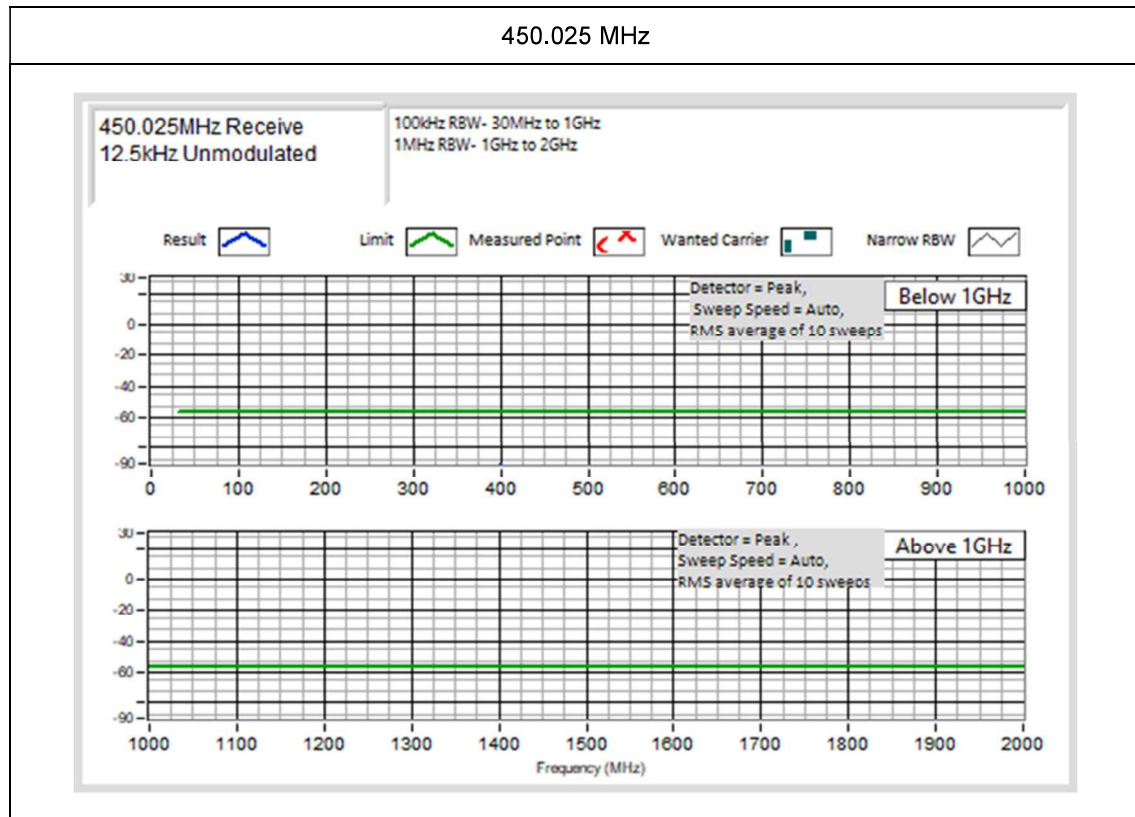
Receiver Spurious Emissions (Conducted) – Continued

429.975 MHz Receive / Tx Standby		
Emission Frequency (MHz)	Level (nW)	Level (dBm)
~	~	~
No emissions were detected within 20 dB of the limit.		



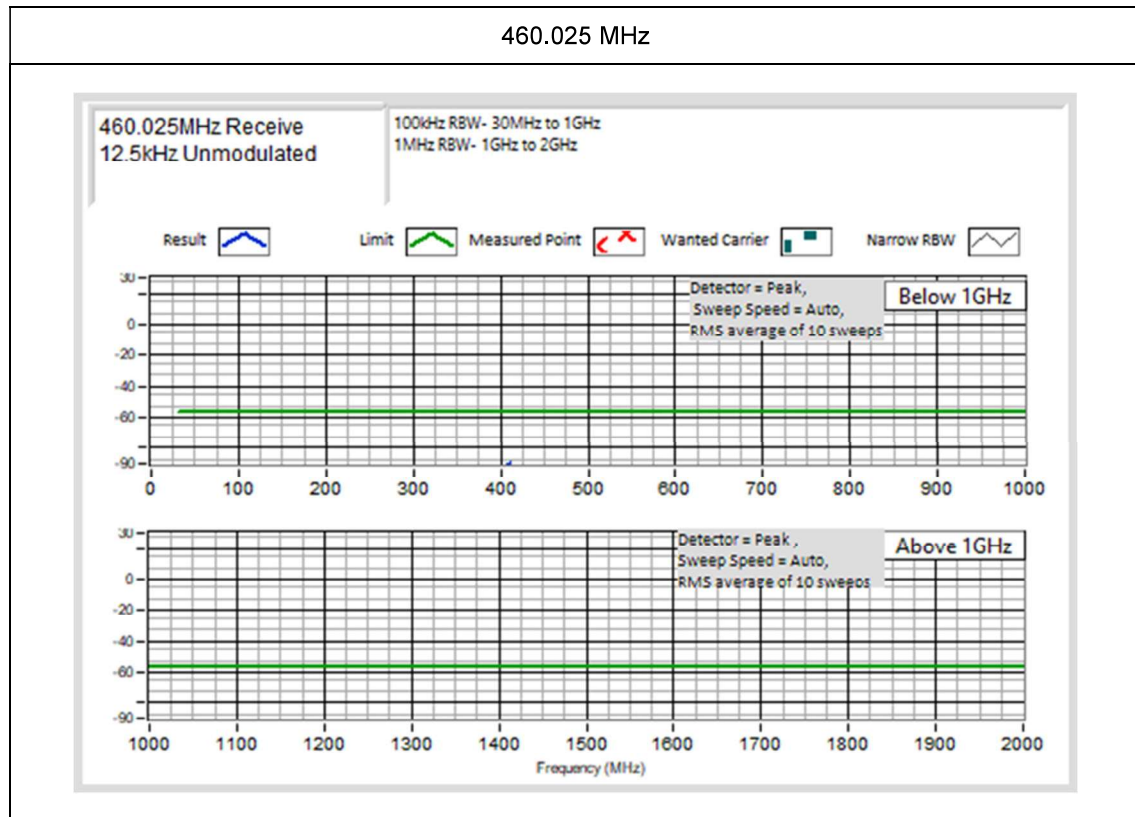
Receiver Spurious Emissions (Conducted) – Continued

450.025 MHz Receive / Tx Standby		
Emission Frequency (MHz)	Level (nW)	Level (dBm)
~	~	~
No emissions were detected within 20 dB of the limit.		



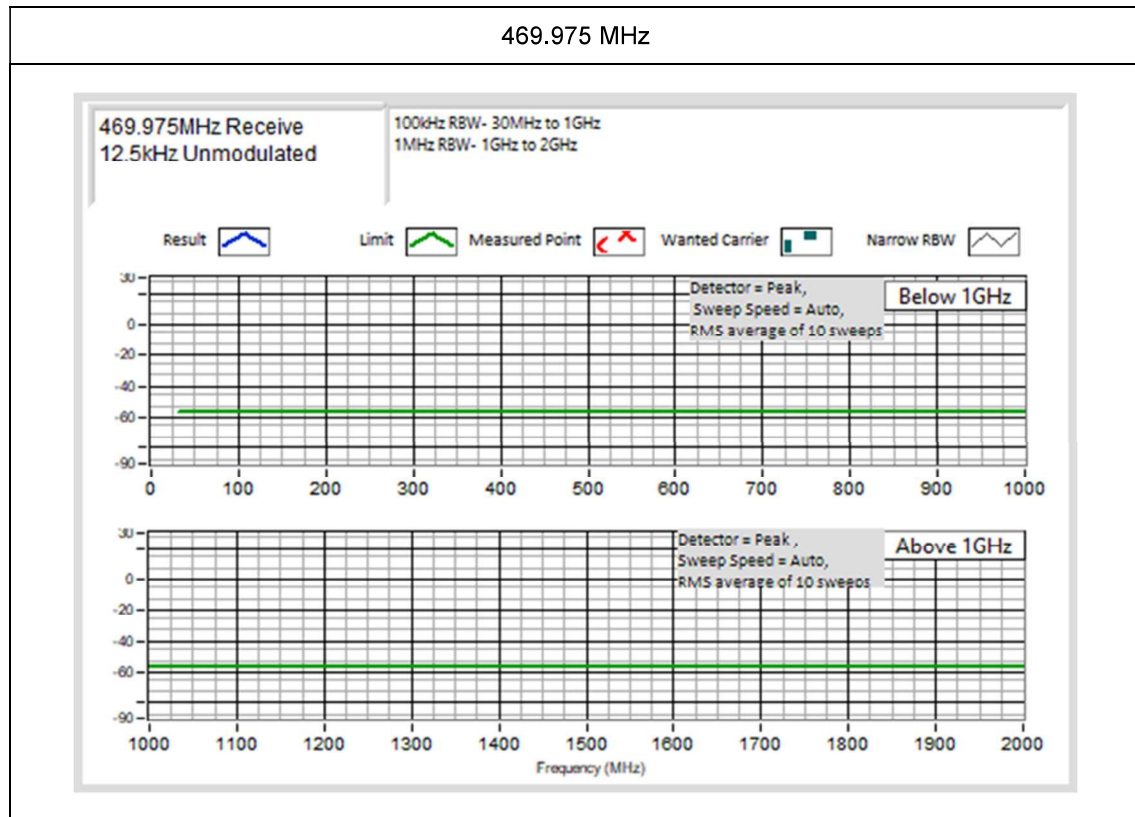
Receiver Spurious Emissions (Conducted) – Continued

460.025 MHz Receive / Tx Standby		
Emission Frequency (MHz)	Level (nW)	Level (dBm)
~	~	~
No emissions were detected within 20 dB of the limit.		



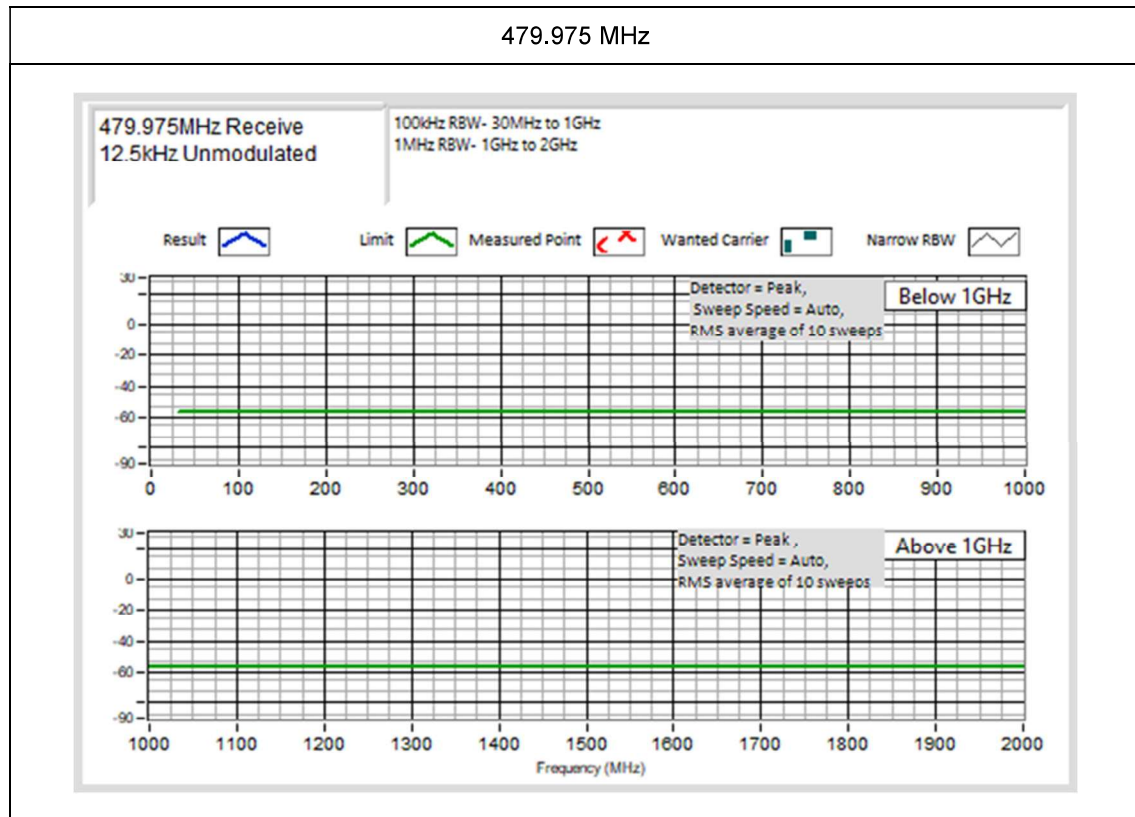
Receiver Spurious Emissions (Conducted) – Continued

469.975 MHz Receive / Tx Standby		
Emission Frequency (MHz)	Level (nW)	Level (dBm)
~	~	~
No emissions were detected within 20 dB of the limit.		



Receiver Spurious Emissions (Conducted) – Continued

479.975 MHz Receive / Tx Standby		
Emission Frequency (MHz)	Level (nW)	Level (dBm)
~	~	~
No emissions were detected within 20 dB of the limit.		



TEST EQUIPMENT LIST

Equipment Type	Information	Manufacturer	Model No	Serial No#	Tait ID	Cal Due
Antenna	18GHz DRG	Emco	DRG3115	2084	E3076	
Antenna	18GHz DRG	Emco	DRG3115	9512-4638	E3560	20-Aug-27
Antenna	Log Periodic	Schwarzbeck	VUSLP	9111-219	E4617	07-Mar-27
Antenna	Log Periodic	Schwarzbeck	VUSLP	9111-503	E111375	07-Mar-27
Antenna	Reverb - 1-18GHz DRG	Schwarzbeck	BBHA 9120 D	9120D-885	E4857	
Antenna	Reverb - 1-18GHz DRG	Schwarzbeck	BBHA 9120 D	9120D-884	E4858	
Audio Analyser	TREVA2	Hewlett Packard	HP8903B	2818A04275	E3710	07-Oct-26
Coax Cable	OATS Turntable Cable 1	Intelcom	RG214	OATS1	E4621	06-Oct-26
Coax Cable	OATS Tower Cable	Intelcom	RG214	OATS2	E4622	06-Oct-26
Coax Cable	2m Black	Suhner	RG214HF/Nm/ Nm/2000	TeltestBlack2	E4623	01-Oct-26
Coax Cable	Reverb - 4.5m Multiflex 141	TeltestBlue6	MF 141	TeltestBlue6	E4843	03-Oct-26
Coax Cable	Reverb - 2m Multiflex 141	TeltestBlue5	MF 141	TeltestBlue5	E4844	03-Oct-26
Coax Cable	Reverb - 2m Multiflex 141	TeltestBlue4	MF 141	TeltestBlue4	E4845	03-Oct-26
Coax Cable	Reverb - 1m Multiflex 141	TeltestBlue3	MF 141	TeltestBlue3	E4846	03-Oct-26
Coax Cable	Reverb - 1m Multiflex 141	TeltestBlue2	MF 141	TeltestBlue2	E4847	01-Oct-26
Coax Cable	Reverb - 1m Multiflex 141	TeltestBlue1	MF 141	TeltestBlue1	E4848	01-Oct-26
Coax Cable	2m Black	Suhner	RG214HF/Nm/ Nm/2000	TeltestBlack6	E4849	03-Oct-26
Coax Cable	OATS Turntable Cable 2	Intelcom	RG215	OATS3	E4995	03-Oct-26
Coax Cable	2m Black	Suhner	RG214HF/Nm/ Nm/2000	TeltestBlack8	E5005	01-Oct-26
Coax Cable	3m Blue	Suhner	Sucoflex 126EA	503429/126E A	E5015	01-Oct-26
Coax Cable	1.5m Blue	Suhner	Sucoflex 126EA	502868/126E A	E5028	07-Oct-26
Filter High Pass/ Notch	400 to 520MHz	Tait		N/A	E3384	14-May-26
Modulation Analyser	TREVA1	Hewlett Packard	HP8901B (Opt 002)	3704A05837	E3786	10-Oct-26
OATS	Controller	Electrometrics	EM-4700	119	E4445	
OATS	Turntable	Electrometrics	EM-4704A	105	E4446	
OATS	Antenna Tower	Electrometrics	EM-4720-2	112	E4447	
Power Meter	TREVA1 Power Head for HP8901	Hewlett Packard	HP11722A	3111A05573	E7054	11-Oct-26
Power Supply		Rohde & Schwarz	NGS M32/10 192.0810.31	Fnr 434	E3556	15-May-26
Power Supply	TREVA 1 60V/25A	Agilent	N5767A	US23D6941R	E11372	03-Oct-26
Power Supply	40V/38A	Agilent	N5766A	US09E4663L	E4719	02-Oct-27
Power Supply	60V/25A	Agilent	N5767A	3111A05573	E4979	09-Oct-26
RF Amplifier	+21.7 dB 1GHz	Tait	ZFL-1000LN	E3660	E3360	04-Aug-26
RF Amplifier	Pre-amplifier	Agilent	87405C	MY47010688	E4941	10-Oct-26
RF Attenuator	10dB 50W	Weinschel	24-10-34	AZ0401	E3388	01-Oct-26
RF Attenuator	30+3dB 350W	Weinschel	67-30-33 & BW- N3W5+	CK9178	E5023	01-Oct-26

TEST EQUIPMENT LIST

Equipment Type	Information	Manufacturer	Model No	Serial No#	Tait ID	Cal Due
RF Attenuator	10dB 50W	Weinschel	24-10-34	BC3293	E4364	01-Oct-26
RF Attenuator	TREVA1 3dB	Weinschel	Model 1	BL9958	E4081	01-Oct-26
RF Attenuator	TREVA1 20dB 150W	Weinschel	40-20-23	MF817	E4082	01-Oct-26
RF Attenuator	3dB 0.5W	Weinschel	Model 1	CH6863	E5013	01-Oct-26
RF Chamber	S-LINE TEM CELL	Rohde & Schwarz	1089.9296.02	338232/003	E3636	18-Jun-27
RF Chamber	Reverb - Stirrer controller for reverb chamber	Teseq	Stirrer Controller	29765.1	E4854	
RF Chamber	Reverb - 0.5 - 18GHz Reverberation Chamber	Teseq	RVC XS	29765	E4855	
RF Combiner	TREVA1	Minicircuits	ZFSC-4-1	-	E4083	
RF Load	50W	Weinschel	F1426	AE2490	E3624	01-Oct-26
RF Load	150W	Bird	8166	524	E3625	01-Oct-26
Signal Generator	Analog 3.2GHz	Hewlett Packard	HP8648C	3443U00543	E3558	06-Oct-26
Signal Generator	Digital 3GHz	Agilent	E4438C	MY45093154	E4600	11-Oct-26
Signal Generator	Digital 3GHz	Agilent	E4438C	MY49070242	E4657	14-Oct-26
Signal Generator	TREVA1 Analog 3.2GHz	Agilent	E8663D	MY50420224	E4908	27-Jun-27
Signal Generator	Analog 12.75GHz	Rohde & Schwarz	SMB100A	183236	E11369	12-Oct-27
Spectrum Analyser	13.2GHz	Hewlett Packard	HP8562E	3821A00779	E3715	09-Oct-26
Spectrum Analyser	13.2GHz	Agilent	PXA N9030A	US49230269	E4775	09-Oct-26
Temp & Humidity datalogger		TP-Link TAPO	T315	22383M6000671	E11377	02-Feb-26
TREVA 1		Teltest	-	1	-	22-May-26
Testware	Frequency Vs Temperature		TTEL_FREQTEMP_1.02.00	-	-	
Testware	Occupied Bandwidth		TTEL_OCCBW_2.01.00	-	-	
Testware	Reverb Emissions		TTEL_REVEMIS_3.00.00	-	-	
Testware	Sideband Spectrum		TTEL_SBSPEC_1.01.00	-	-	
Testware	S-Line Radiated Emissions		TTEL_SLINERADEM_2.01.00	-	-	
Testware	TREVA		TTEL_TREVA_2.03.00	-	-	
Testware	Spec An Correction Loader		TTEL_SPECANCORR_1.01.00	-	-	
Testware	Radio Conducted Emissions		TTEL_RADIOCOND_1.02.01	-	-	

* NOTE: Items without calibration dates are calibrated immediately before use, or set using calibrated instruments.

ANNEX A – EUT PHOTOS



Front View



Back View



Upright Front View



Upright Back View

ANNEX A – EUT PHOTOS



Accessory/Data Port Side



PTT Button Side

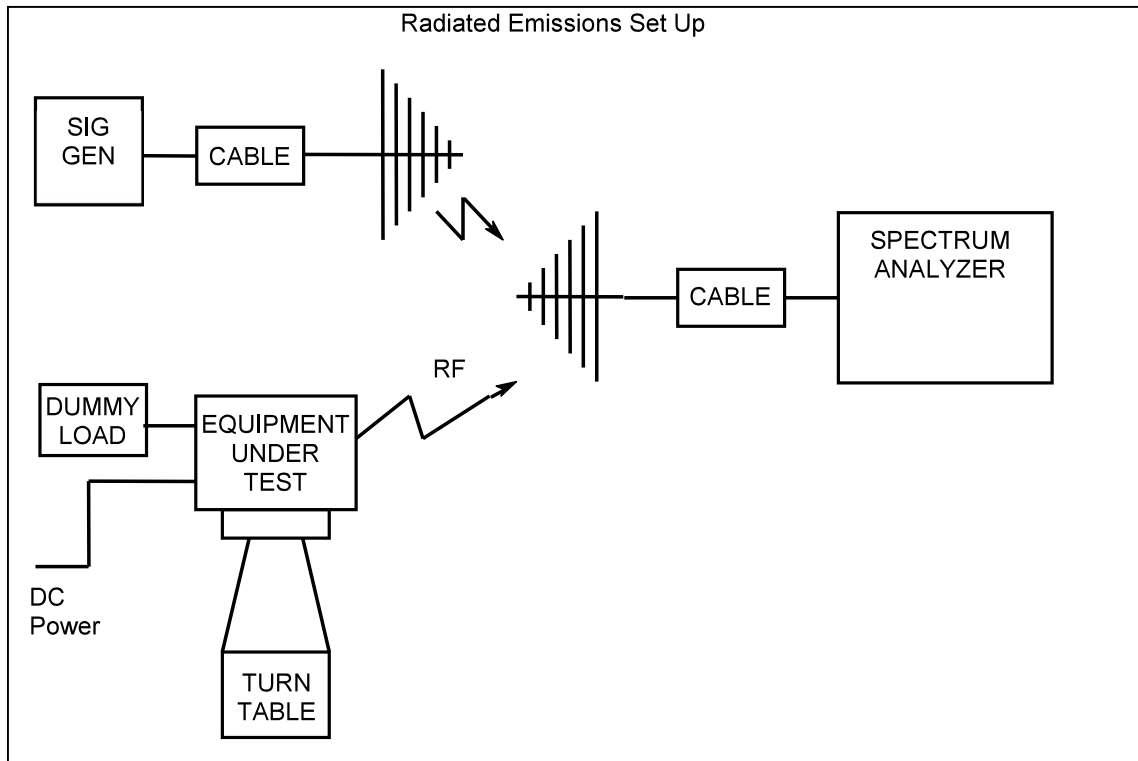


Radio Product Label

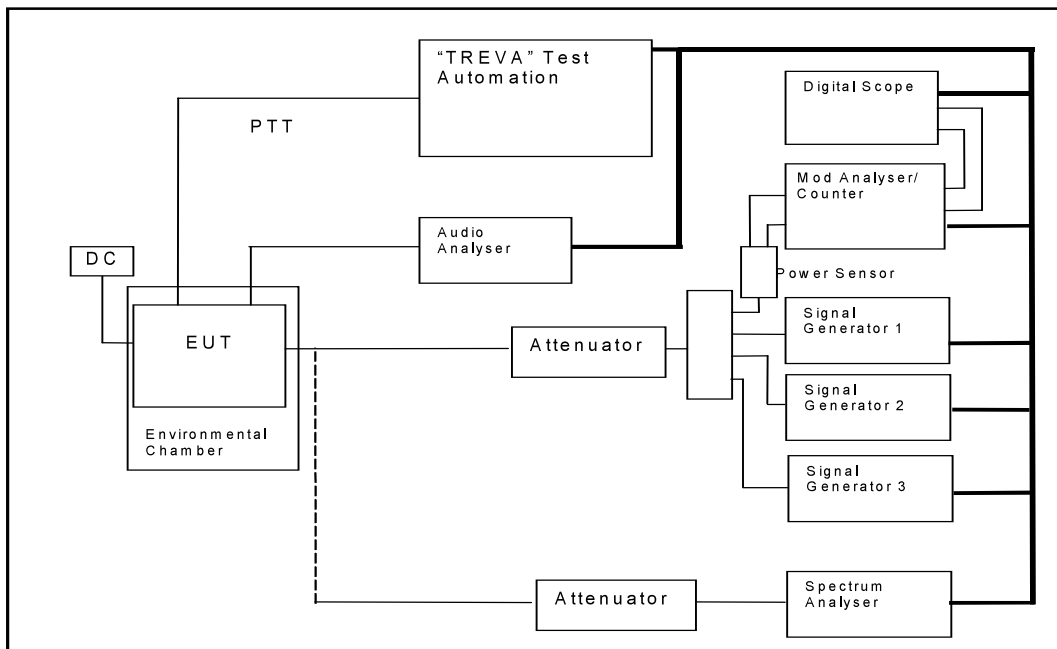


Battery Pack

ANNEX B – TEST SETUP DETAILS



All other testing is performed using the Teltest Radio **EVAL**uation system (TREVA), which is configured as shown below. The Spectrum Analyser is connected to the EUT via the attenuator network for Conducted Emissions, Occupied Bandwidth, and Spectrum Masks measurement.



END OF REPORT