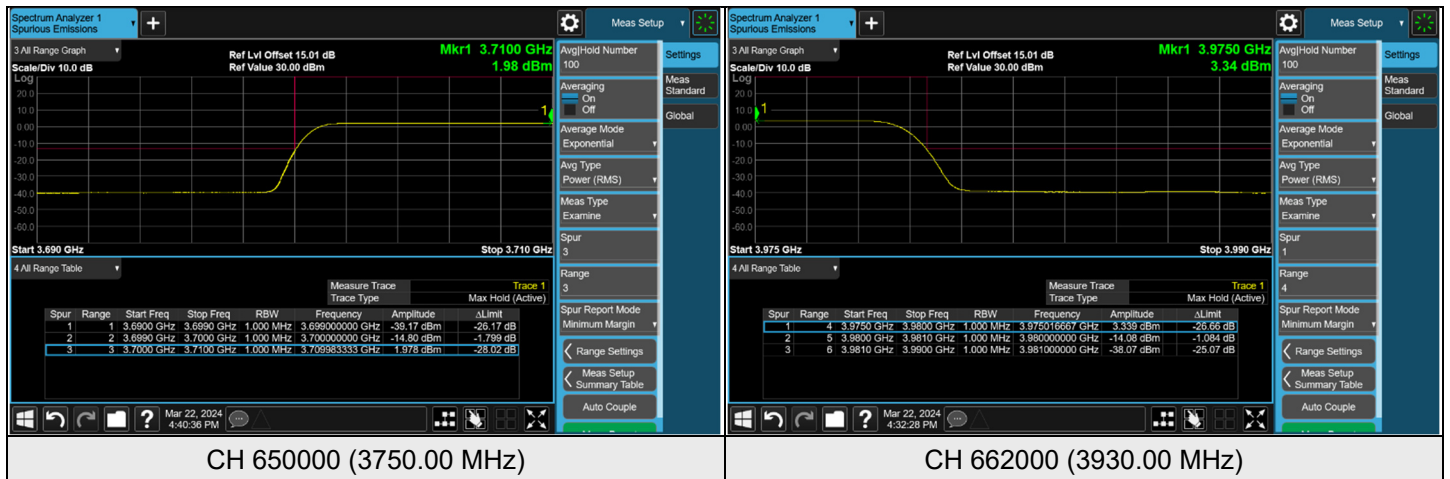
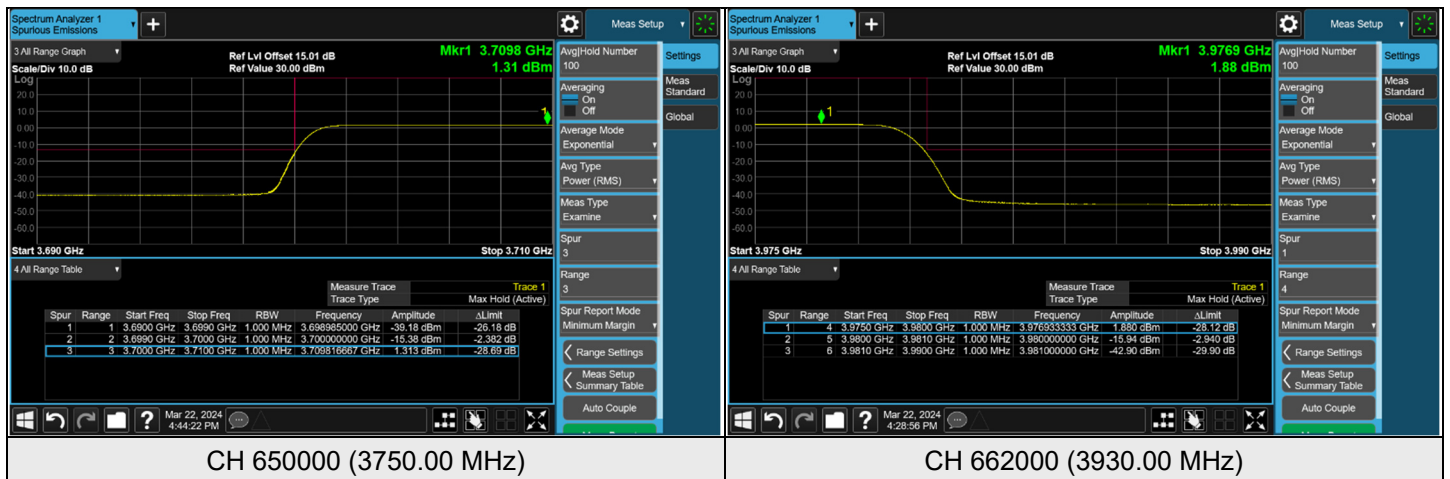


Chain 0



Chain 1



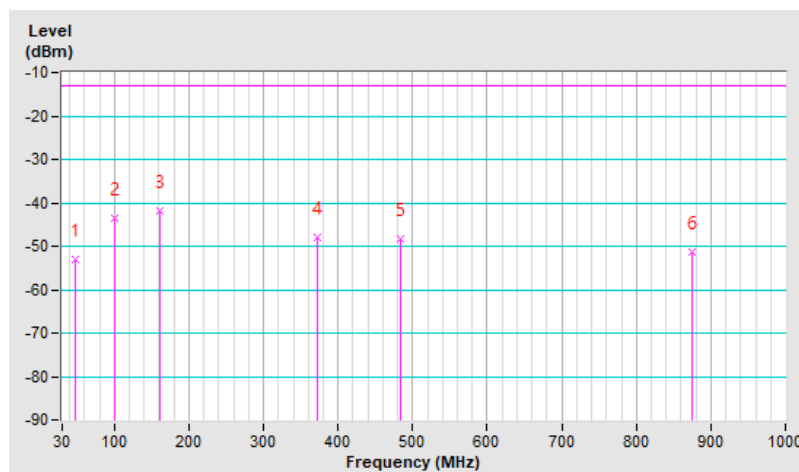
7.6 Radiated Spurious Emissions below 1GHz

RF Mode	NR n77 Channel Bandwidth: 100MHz	Channel	CH 650000: 3750.00 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	21°C, 69% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	48.43	-52.99	-13.00	-39.99	2.00 H	123	55.19	-108.18
2	100.81	-43.51	-13.00	-30.51	2.00 H	137	69.04	-112.55
3	160.95	-41.77	-13.00	-28.77	1.51 H	2	66.24	-108.01
4	371.44	-48.09	-13.00	-35.09	1.01 H	133	57.65	-105.74
5	482.99	-48.25	-13.00	-35.25	1.26 H	23	54.69	-102.94
6	874.87	-51.49	-13.00	-38.49	1.01 H	315	44.78	-96.27

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The EIRP levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

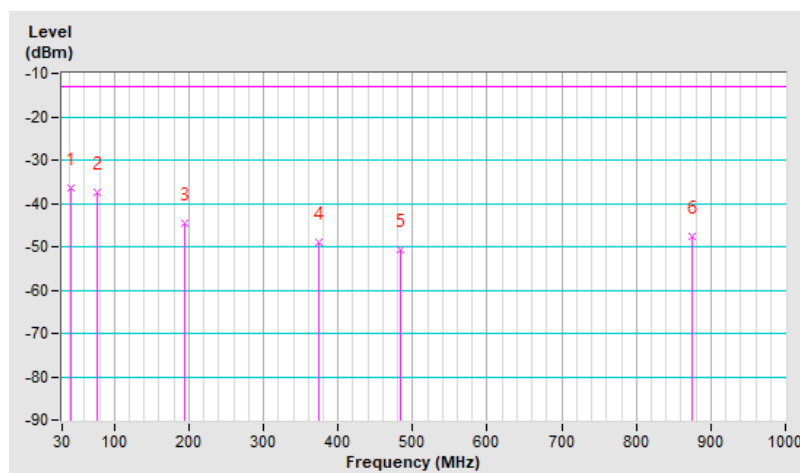


RF Mode	NR n77 Channel Bandwidth: 100MHz	Channel	CH 650000: 3750.00 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	21°C, 69% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	41.64	-36.41	-13.00	-23.41	1.24 V	302	72.07	-108.48
2	76.56	-37.44	-13.00	-24.44	1.00 V	299	74.91	-112.35
3	194.90	-44.69	-13.00	-31.69	1.00 V	186	66.85	-111.54
4	374.35	-49.01	-13.00	-36.01	1.49 V	146	56.62	-105.63
5	483.96	-50.62	-13.00	-37.62	1.49 V	348	52.31	-102.93
6	874.87	-47.55	-13.00	-34.55	1.24 V	2	48.72	-96.27

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The EIRP levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



7.7 Radiated Spurious Emissions above 1GHz

RF Mode	NR n77 Channel Bandwidth: 40MHz	Channel	CH 648000: 3720.00 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	21°C, 69% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	7440.00	-40.81	-13.00	-27.81	2.27 H	20	46.56	-87.37
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	7440.00	-39.71	-13.00	-26.71	1.25 V	28	47.66	-87.37

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit.

RF Mode	NR n77 Channel Bandwidth: 40MHz	Channel	CH 656000: 3840.00 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	21°C, 69% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	7680.00	-41.06	-13.00	-28.06	2.27 H	18	46.69	-87.75
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	7680.00	-40.05	-13.00	-27.05	1.21 V	24	47.70	-87.75

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	NR n77 Channel Bandwidth: 40MHz	Channel	CH 664000: 3960.00 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	21°C, 69% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	7920.00	-40.78	-13.00	-27.78	2.31 H	21	46.66	-87.44
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	7920.00	-39.84	-13.00	-26.84	1.22 V	21	47.60	-87.44

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	NR n77 Channel Bandwidth: 70MHz	Channel	CH 649000: 3735.00 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	21°C, 69% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	7470.00	-40.59	-13.00	-27.59	2.30 H	19	46.72	-87.31
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	7470.00	-39.51	-13.00	-26.51	1.24 V	25	47.80	-87.31

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	NR n77 Channel Bandwidth: 70MHz	Channel	CH 656000: 3840.00 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	21°C, 69% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	7680.00	-41.05	-13.00	-28.05	2.27 H	18	46.70	-87.75
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	7680.00	-40.10	-13.00	-27.10	1.18 V	21	47.65	-87.75

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	NR n77 Channel Bandwidth: 70MHz	Channel	CH 663000: 3945.00 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	21°C, 69% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	7890.00	-40.75	-13.00	-27.75	2.31 H	19	46.75	-87.50
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	7890.00	-39.69	-13.00	-26.69	1.20 V	21	47.81	-87.50

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	NR n77 Channel Bandwidth: 100MHz	Channel	CH 650000 : 3750 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	21°C, 69% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	7500.00	-40.65	-13.00	-27.65	2.32 H	23	46.60	-87.25
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	7500.00	-39.43	-13.00	-26.43	1.20 V	21	47.82	-87.25

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	NR n77 Channel Bandwidth: 100MHz	Channel	CH 656000 : 3840 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	21°C, 69% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	7680.00	-41.14	-13.00	-28.14	2.27 H	18	46.61	-87.75
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	7680.00	-40.03	-13.00	-27.03	1.16 V	28	47.72	-87.75

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	NR n77 Channel Bandwidth: 100MHz	Channel	CH 662000 : 3930 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	21°C, 69% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	7860.00	-40.98	-13.00	-27.98	2.27 H	24	46.60	-87.58
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	7860.00	-39.79	-13.00	-26.79	1.19 V	23	47.79	-87.58

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit.

7.8 Frequency Stability

Environmental Conditions:	25°C, 60% RH	Tested By:	Kevin Kuo
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NR n77 (3700-3980 MHz) SCS 30 kHz, Channel Bandwidth: 40 MHz

Chain 0

Frequency Stability Versus Voltage				
Voltage (Vac)	CH 648000 (3720.00 MHz)		CH 664000 (3960.00 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
120.0	3720.000002	0.000538	3960.000002	0.000505
102.0	3719.999997	-0.000806	3959.999995	-0.001263
138.0	3720.000003	0.000806	3960.000003	0.000758

Note: The applicant defined the normal working voltage is from 102 to 138 Vac.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 648000 (3720.00 MHz)		CH 664000 (3960.00 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	3719.999998	-0.000538	3960.000003	0.000758
-20	3720.000004	0.001075	3959.999996	-0.001010
-10	3720.000005	0.001344	3960.000003	0.000758
0	3720.000001	0.000269	3959.999998	-0.000505
10	3720.000001	0.000269	3960.000003	0.000758
20	3719.999998	-0.000538	3959.999997	-0.000758
30	3719.999998	-0.000538	3959.999998	-0.000505
40	3720.000001	0.000269	3960.000000	0.000000
50	3719.999995	-0.001344	3960.000003	0.000758
55	3720.000001	0.000269	3959.999997	-0.000758

Chain 1

Frequency Stability Versus Voltage				
Voltage (Vac)	CH 648000 (3720.00 MHz)		CH 664000 (3960.00 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
120.0	3719.999997	-0.000806	3960.000001	0.000253
102.0	3720.000001	0.000269	3959.999998	-0.000505
138.0	3719.999995	-0.001344	3960.000001	0.000253

Note: The applicant defined the normal working voltage is from 102 to 138 Vac.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 648000 (3720.00 MHz)		CH 664000 (3960.00 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	3719.999997	-0.000806	3960.000002	0.000505
-20	3720.000005	0.001344	3959.999998	-0.000505
-10	3719.999998	-0.000538	3959.999997	-0.000758
0	3720.000005	0.001344	3960.000002	0.000505
10	3720.000002	0.000538	3960.000003	0.000758
20	3719.999999	-0.000269	3959.999998	-0.000505
30	3719.999997	-0.000806	3959.999999	-0.000253
40	3719.999997	-0.000806	3960.000002	0.000505
50	3719.999999	-0.000269	3959.999995	-0.001263
55	3719.999995	-0.001344	3959.999999	-0.000253

NR n77 (3700-3980 MHz) SCS 30 kHz, Channel Bandwidth: 50 MHz

Chain 0

Frequency Stability Versus Voltage				
Voltage (Vac)	CH 648334 (3725.01 MHz)		CH 663666 (3954.99 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
120.0	3725.009998	-0.000537	3954.990005	0.001264
102.0	3725.010003	0.000805	3954.989998	-0.000506
138.0	3725.009997	-0.000805	3954.990003	0.000759

Note: The applicant defined the normal working voltage is from 102 to 138 Vac.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 648334 (3725.01 MHz)		CH 663666 (3954.99 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	3725.010001	0.000268	3954.990003	0.000759
-20	3725.009998	-0.000537	3954.989996	-0.001011
-10	3725.009997	-0.000805	3954.990003	0.000759
0	3725.010001	0.000268	3954.990005	0.001264
10	3725.009999	-0.000268	3954.989999	-0.000253
20	3725.009995	-0.001342	3954.989998	-0.000506
30	3725.009997	-0.000805	3954.990002	0.000506
40	3725.009995	-0.001342	3954.989996	-0.001011
50	3725.009999	-0.000268	3954.989998	-0.000506
55	3725.010004	0.001074	3954.990001	0.000253

Chain 1

Frequency Stability Versus Voltage				
Voltage (Vac)	CH 648334 (3725.01 MHz)		CH 663666 (3954.99 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
120.0	3725.009999	-0.000268	3954.989996	-0.001011
102.0	3725.009996	-0.001074	3954.990002	0.000506
138.0	3725.010001	0.000268	3954.989996	-0.001011

Note: The applicant defined the normal working voltage is from 102 to 138 Vac.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 648334 (3725.01 MHz)		CH 663666 (3954.99 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	3725.010000	0.000000	3954.990000	0.000000
-20	3725.010005	0.001342	3954.989999	-0.000253
-10	3725.010002	0.000537	3954.989996	-0.001011
0	3725.009998	-0.000537	3954.989998	-0.000506
10	3725.010002	0.000537	3954.990002	0.000506
20	3725.010002	0.000537	3954.989996	-0.001011
30	3725.009998	-0.000537	3954.989998	-0.000506
40	3725.010004	0.001074	3954.990003	0.000759
50	3725.010004	0.001074	3954.989997	-0.000759
55	3725.010003	0.000805	3954.990001	0.000253

NR n77 (3700-3980 MHz) SCS 30 kHz, Channel Bandwidth: 60 MHz

Chain 0

Frequency Stability Versus Voltage				
Voltage (Vac)	CH 648668 (3730.02 MHz)		CH 663332 (3949.98 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
120.0	3730.019996	-0.001072	3949.979998	-0.000506
102.0	3730.019998	-0.000536	3949.979995	-0.001266
138.0	3730.019997	-0.000804	3949.980004	0.001013

Note: The applicant defined the normal working voltage is from 102 to 138 Vac.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 648668 (3730.02 MHz)		CH 663332 (3949.98 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	3730.019998	-0.000536	3949.979999	-0.000253
-20	3730.020004	0.001072	3949.979997	-0.000759
-10	3730.020002	0.000536	3949.979998	-0.000506
0	3730.019998	-0.000536	3949.979996	-0.001013
10	3730.019997	-0.000804	3949.980003	0.000759
20	3730.020001	0.000268	3949.979999	-0.000253
30	3730.020005	0.001340	3949.980005	0.001266
40	3730.019999	-0.000268	3949.979998	-0.000506
50	3730.020004	0.001072	3949.980003	0.000759
55	3730.019998	-0.000536	3949.979996	-0.001013

Chain 1

Frequency Stability Versus Voltage				
Voltage (Vac)	CH 648668 (3730.02 MHz)		CH 663332 (3949.98 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
120.0	3730.020001	0.000268	3949.979998	-0.000506
102.0	3730.019999	-0.000268	3949.979999	-0.000253
138.0	3730.019998	-0.000536	3949.979996	-0.001013

Note: The applicant defined the normal working voltage is from 102 to 138 Vac.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 648668 (3730.02 MHz)		CH 663332 (3949.98 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	3730.020000	0.000000	3949.980000	0.000000
-20	3730.020004	0.001072	3949.979995	-0.001266
-10	3730.019996	-0.001072	3949.980005	0.001266
0	3730.019999	-0.000268	3949.979997	-0.000759
10	3730.020004	0.001072	3949.979999	-0.000253
20	3730.019997	-0.000804	3949.980003	0.000759
30	3730.020002	0.000536	3949.980005	0.001266
40	3730.020001	0.000268	3949.980001	0.000253
50	3730.019999	-0.000268	3949.979997	-0.000759
55	3730.020003	0.000804	3949.979996	-0.001013

NR n77 (3700-3980 MHz) SCS 30 kHz, Channel Bandwidth: 70 MHz

Chain 0

Frequency Stability Versus Voltage				
Voltage (Vac)	CH 649000 (3735.00 MHz)		CH 663000 (3945.00 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
120.0	3735.000002	0.000535	3944.999999	-0.000253
102.0	3734.999999	-0.000268	3944.999995	-0.001267
138.0	3735.000003	0.000803	3944.999997	-0.000760

Note: The applicant defined the normal working voltage is from 102 to 138 Vac.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 649000 (3735.00 MHz)		CH 663000 (3945.00 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	3735.000003	0.000803	3944.999996	-0.001014
-20	3735.000002	0.000535	3945.000001	0.000253
-10	3734.999998	-0.000535	3945.000001	0.000253
0	3734.999999	-0.000268	3945.000001	0.000253
10	3734.999995	-0.001339	3944.999998	-0.000507
20	3735.000004	0.001071	3945.000001	0.000253
30	3734.999996	-0.001071	3945.000004	0.001014
40	3735.000005	0.001339	3944.999998	-0.000507
50	3734.999999	-0.000268	3944.999995	-0.001267
55	3734.999999	-0.000268	3944.999995	-0.001267

Chain 1

Frequency Stability Versus Voltage				
Voltage (Vac)	CH 649000 (3735.00 MHz)		CH 663000 (3945.00 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
120.0	3735.000002	0.000535	3944.999996	-0.001014
102.0	3734.999998	-0.000535	3945.000001	0.000253
138.0	3735.000004	0.001071	3945.000003	0.000760

Note: The applicant defined the normal working voltage is from 102 to 138 Vac.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 649000 (3735.00 MHz)		CH 663000 (3945.00 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	3735.000000	0.000000	3945.000000	0.000000
-20	3734.999998	-0.000535	3944.999995	-0.001267
-10	3734.999995	-0.001339	3945.000001	0.000253
0	3734.999996	-0.001071	3945.000005	0.001267
10	3735.000002	0.000535	3944.999998	-0.000507
20	3734.999999	-0.000268	3944.999997	-0.000760
30	3735.000004	0.001071	3944.999999	-0.000253
40	3735.000002	0.000535	3945.000004	0.001014
50	3735.000001	0.000268	3944.999996	-0.001014
55	3735.000002	0.000535	3945.000001	0.000253

NR n77 (3700-3980 MHz) SCS 30 kHz, Channel Bandwidth: 80 MHz

Chain 0

Frequency Stability Versus Voltage				
Voltage (Vac)	CH 649334 (3740.01 MHz)		CH 662666 (3939.99 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
120.0	3740.010003	0.000802	3939.990001	0.000254
102.0	3740.010002	0.000535	3939.989999	-0.000254
138.0	3740.009997	-0.000802	3939.990003	0.000761

Note: The applicant defined the normal working voltage is from 102 to 138 Vac.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 649334 (3740.01 MHz)		CH 662666 (3939.99 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	3740.010002	0.000535	3939.989998	-0.000508
-20	3740.009999	-0.000267	3939.989995	-0.001269
-10	3740.009998	-0.000535	3939.990003	0.000761
0	3740.009999	-0.000267	3939.989996	-0.001015
10	3740.009995	-0.001337	3939.990002	0.000508
20	3740.010005	0.001337	3939.990001	0.000254
30	3740.009997	-0.000802	3939.990003	0.000761
40	3740.009998	-0.000535	3939.990001	0.000254
50	3740.009998	-0.000535	3939.990002	0.000508
55	3740.010001	0.000267	3939.989996	-0.001015

Chain 1

Frequency Stability Versus Voltage				
Voltage (Vac)	CH 649334 (3740.01 MHz)		CH 662666 (3939.99 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
120.0	3740.009997	-0.000802	3939.989998	-0.000508
102.0	3740.009995	-0.001337	3939.990001	0.000254
138.0	3740.009997	-0.000802	3939.990004	0.001015

Note: The applicant defined the normal working voltage is from 102 to 138 Vac.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 649334 (3740.01 MHz)		CH 662666 (3939.99 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	3740.010000	0.000000	3939.990000	0.000000
-20	3740.009995	-0.001337	3939.990000	0.000000
-10	3740.009996	-0.001070	3939.989998	-0.000508
0	3740.009996	-0.001070	3939.989999	-0.000254
10	3740.010001	0.000267	3939.990004	0.001015
20	3740.009997	-0.000802	3939.989999	-0.000254
30	3740.009999	-0.000267	3939.989999	-0.000254
40	3740.009998	-0.000535	3939.989997	-0.000761
50	3740.010002	0.000535	3939.990003	0.000761
55	3740.009999	-0.000267	3939.989995	-0.001269

NR n77 (3700-3980 MHz) SCS 30 kHz, Channel Bandwidth: 90 MHz

Chain 0

Frequency Stability Versus Voltage				
Voltage (Vac)	CH 649668 (3745.02 MHz)		CH 662332 (3934.98 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
120.0	3745.020003	0.000801	3934.980002	0.000508
102.0	3745.020001	0.000267	3934.980004	0.001017
138.0	3745.019996	-0.001068	3934.979998	-0.000508

Note: The applicant defined the normal working voltage is from 102 to 138 Vac.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 649668 (3745.02 MHz)		CH 662332 (3934.98 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	3745.020001	0.000267	3934.979997	-0.000762
-20	3745.020003	0.000801	3934.980002	0.000508
-10	3745.020003	0.000801	3934.979997	-0.000762
0	3745.020002	0.000534	3934.980001	0.000254
10	3745.019996	-0.001068	3934.979996	-0.001017
20	3745.019995	-0.001335	3934.980001	0.000254
30	3745.020002	0.000534	3934.980003	0.000762
40	3745.020001	0.000267	3934.979998	-0.000508
50	3745.020005	0.001335	3934.980002	0.000508
55	3745.020001	0.000267	3934.979997	-0.000762

Chain 1

Frequency Stability Versus Voltage				
Voltage (Vac)	CH 649668 (3745.02 MHz)		CH 662332 (3934.98 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
120.0	3745.020001	0.000267	3934.979997	-0.000762
102.0	3745.020003	0.000801	3934.980001	0.000254
138.0	3745.020004	0.001068	3934.980004	0.001017

Note: The applicant defined the normal working voltage is from 102 to 138 Vac.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 649668 (3745.02 MHz)		CH 662332 (3934.98 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	3745.020000	0.000000	3934.980000	0.000000
-20	3745.019996	-0.001068	3934.980003	0.000762
-10	3745.020001	0.000267	3934.979996	-0.001017
0	3745.020002	0.000534	3934.979999	-0.000254
10	3745.019995	-0.001335	3934.979995	-0.001271
20	3745.020001	0.000267	3934.980004	0.001017
30	3745.020003	0.000801	3934.980003	0.000762
40	3745.020002	0.000534	3934.979999	-0.000254
50	3745.020005	0.001335	3934.980005	0.001271
55	3745.020001	0.000267	3934.979998	-0.000508

NR n77 (3700-3980 MHz) SCS 30 kHz, Channel Bandwidth: 100 MHz

Chain 0

Frequency Stability Versus Voltage				
Voltage (Vac)	CH 650000 (3750.00 MHz)		CH 662000 (3930.00 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
120.0	3749.999997	-0.000800	3930.000003	0.000763
102.0	3750.000001	0.000267	3930.000005	0.001272
138.0	3750.000005	0.001333	3930.000004	0.001018

Note: The applicant defined the normal working voltage is from 102 to 138 Vac.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 650000 (3750.00 MHz)		CH 662000 (3930.00 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	3750.000002	0.000533	3930.000002	0.000509
-20	3749.999996	-0.001067	3929.999995	-0.001272
-10	3749.999998	-0.000533	3929.999999	-0.000254
0	3749.999995	-0.001333	3930.000001	0.000254
10	3750.000001	0.000267	3930.000004	0.001018
20	3749.999998	-0.000533	3930.000003	0.000763
30	3750.000002	0.000533	3929.999997	-0.000763
40	3749.999998	-0.000533	3929.999995	-0.001272
50	3750.000001	0.000267	3929.999997	-0.000763
55	3749.999996	-0.001067	3929.999998	-0.000509

Chain 1

Frequency Stability Versus Voltage				
Voltage (Vac)	CH 650000 (3750.00 MHz)		CH 662000 (3930.00 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
120.0	3749.999999	-0.000267	3930.000001	0.000254
102.0	3750.000003	0.000800	3930.000003	0.000763
138.0	3749.999999	-0.000267	3929.999998	-0.000509

Note: The applicant defined the normal working voltage is from 102 to 138 Vac.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 650000 (3750.00 MHz)		CH 662000 (3930.00 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	3750.000000	0.000000	3930.000000	0.000000
-20	3749.999996	-0.001067	3930.000003	0.000763
-10	3749.999998	-0.000533	3930.000004	0.001018
0	3750.000002	0.000533	3929.999998	-0.000509
10	3750.000003	0.000800	3930.000005	0.001272
20	3750.000002	0.000533	3930.000001	0.000254
30	3750.000001	0.000267	3930.000001	0.000254
40	3749.999997	-0.000800	3930.000002	0.000509
50	3750.000003	0.000800	3930.000001	0.000254
55	3750.000002	0.000533	3930.000003	0.000763

8 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo)

9 Information of the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are FCC recognized accredited test firms and accredited according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

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The address and road map of all our labs can be found in our web site also.

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