

## TEST REPORT



REPORT NUMBER: R12161950-E6b

COMPANY NAME: Bose Corp

EUT DESCRIPTION: Radio Transmitter

MODEL: 424411

SERIAL NUMBER: DP2 A144

ISSUE DATE: 2018-04-06

DATE TESTED: 2018-02-09 and 2018-03-01

APPLICABLE STANDARDS: JAPAN RADIO LAW RADIO EQUIPMENT REGULATIONS

TEST METHOD: Notice 88 of Ordinance Concerning Technical Regulations Conformity Certification of Specified Radio Equipment

Place of Testing: UL LLC  
12 Laboratory Drive, Research Triangle Park, NC 27709 USA

Test Result: Compliant

Classification of Specified Radio Equipment: Article 2 Clause 1 Item 19

Type of radio wave, Frequency and antenna power:

G1D	2402-2480MHz (Interval of 1MHz 79ch[Normal])	0.000013W/MHz
G1D	2402-2480MHz (Interval of 1MHz 20ch[AFH])	0.000044W/MHz

Note: The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. This document may not be altered or revised in any way unless done so by UL LLC and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL LLC will constitute fraud and shall nullify the document. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. Government

Approved & Released For UL LLC By:

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Operations Leader  
UL LLC

Prepared By:

Brian T. Kiewra  
Project Engineer  
UL LLC



NVLAP LAB CODE 200246-0

## 1. EUT Information

Report No. : R12161950-E6b
Applicant : Bose Corp
Equipment Description: Radio Transmitter
Model No. : 424411
SerialNo. : DP2 A144
The number of Tx Antenna : 1
Mode : 3DH5 (8DQPSK). Power and Duty Cycle were also measured for 2DH5 (DQPSK)
Max Antenna Gain : 2.20dBi
Type of Radio wave : G1D

Supply Voltage <input checked="" type="radio"/> DC <input type="radio"/> AC    24.00V -	Modulation <input checked="" type="radio"/> FH (Bluetooth)
Voltage Condition <input checked="" type="radio"/> Non-Extreme <input type="radio"/> Extreme  Normal DC24V Normal-10% - Normal+10% -	EUT has <input checked="" type="radio"/> ANT Connector <input type="radio"/> No ANT Connector    distance -

The worst-case data rate for each mode is determined to be as follows, based on preliminary test of the chipset utilized in this radio.  
All final tests were made at 2DH5 and 3DH5.

### Factors

		Other than for Power		For Power	
		Cable Loss [dB]	ATT/ [dB]	Cable Loss [dB]	ATT/ [dB]
Low Channel (Tx1)	2402	1.84	10.00	1.84	10.00
Middle Channel (Tx2)	2441	1.84	10.00	1.84	10.00
High Channel (Tx3)	2480	1.84	10.00	1.84	10.00

Report Version Info			
Ver.	Issue Date	Description	Revised By
1	2018-03-05	Initial Release.	Brian T. Kiewra
2	2018-03-27	Type of radio wave changed from F1D to G1D	Niklas Haydon
3	2018-04-05	Corrected Tx Spur frequencies, added atten loss to Rx spur results, corrected voltage to 24VDC on some test sections, corrected reference to spreading bandwidth in output power section.	Brian T. Kiewra

## 2.TEST Result

### 2.1. Frequency Tolerance

Job No.	R12161950-E6b
Remark1	8PSK
Remark2	

#### [ DATA ]

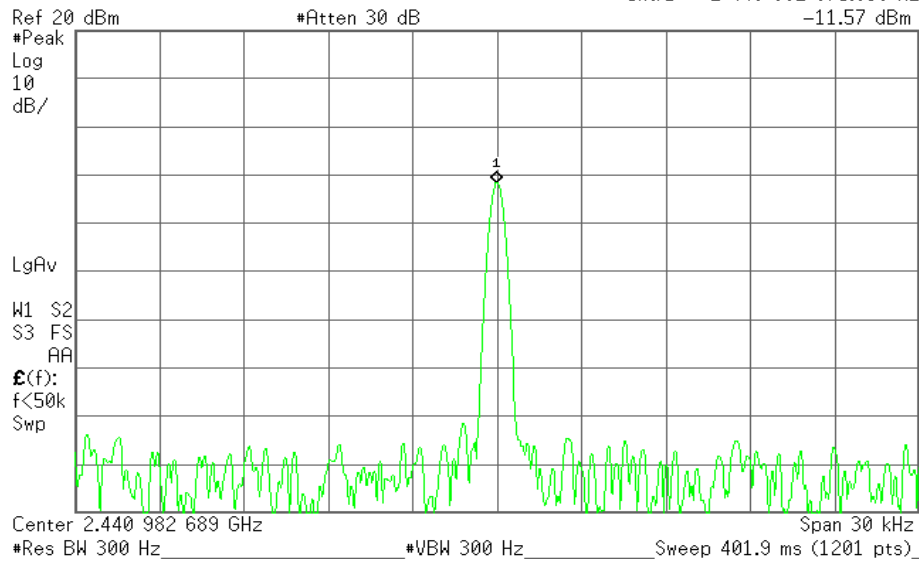
Voltage	Freq. [MHz]	Result [MHz]	Tolerance [kHz]	Tolerance [ppm]	Limit [ppm]
DC24V	2441	2440.9827	-17.3242	-7.10	±50.0

Tx2\_Freq\_Nom

Agilent 13:57:21 Feb 9, 2018

R L

Cntr1 2 440 982 675.838 Hz



## 2.2. Occupied Bandwidth / Spreading Bandwidth

Job No.	R12161950-E6b
Remark1	8PSK
Remark2	

[ DATA]

### 99% Occupied Frequency Bandwidth

Voltage	Freq. [MHz]	Result [MHz]	Limit [MHz]
DC24V	2441	77.9586	83.5

### Spreading Bandwidth

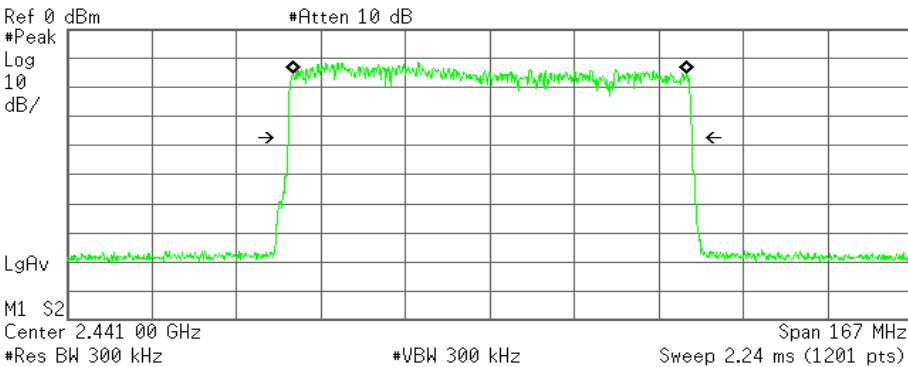
Voltage	Freq. [MHz]	Result [MHz]	Result [kHz]	Limit [kHz]
DC24V	2441	69.2320	69232	500

### 99% Occupied Frequency Bandwidth

Tx2\_Hop99OBW\_Nom

Agilent 09:13:26 Mar 1, 2018

R L



Occupied Bandwidth  
77.9586 MHz

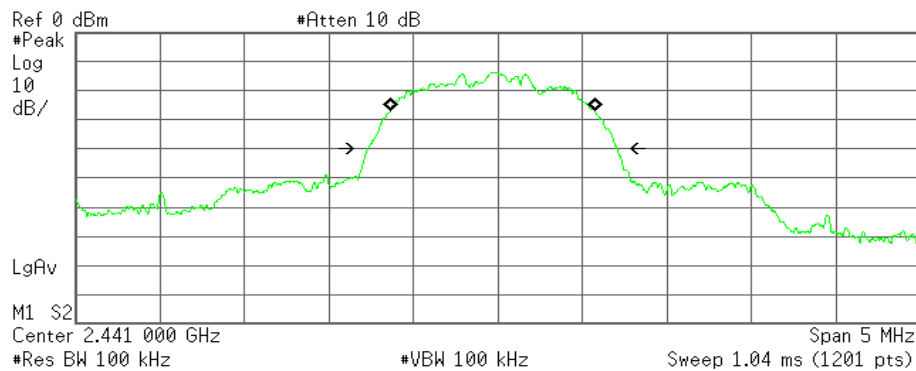
Occ BW % Pwr 99.00 %  
x dB -26.00 dB

Transmit Freq Error -19.919 kHz  
x dB Bandwidth 79.846 MHz

Tx2\_99OBW\_Nom

Agilent 09:14:16 Mar 1, 2018

R L



Occupied Bandwidth  
1.2138 MHz

Occ BW % Pwr 99.00 %  
x dB -26.00 dB

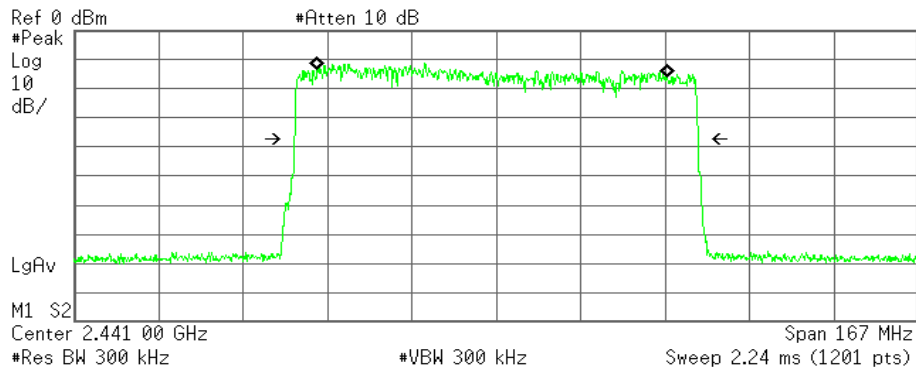
Transmit Freq Error -31.091 kHz  
x dB Bandwidth 1.468 MHz

#### Spreading Bandwidth

Tx2\_Hop90OBW\_Nom

Agilent 09:13:32 Mar 1, 2018

R L



Occupied Bandwidth  
69.2320 MHz

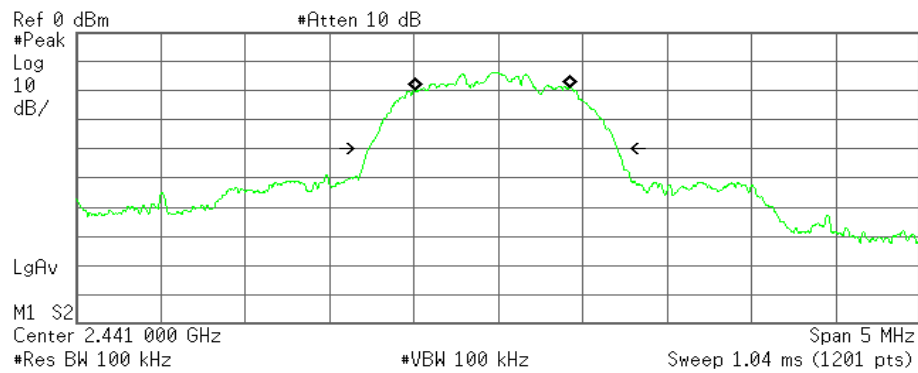
Occ BW % Pwr 90.00 %  
x dB -26.00 dB

Transmit Freq Error -793.725 kHz  
Occupied Bandwidth 79.855 MHz

Tx2\_900BW\_Nom

Agilent 09:14:22 Mar 1, 2018

R L



Transmit Freq Error -36.730 kHz  
Occupied Bandwidth 1.468 MHz

### 2.3. Unwanted Emission Strength (Normal Voltage)

Job No. R12161950-E6b

Remark1 8PSK

Remark2

#### [ DATA ]

Voltage	Freq.	Freq.	S/A Reading	Cable Loss	Atten. Loss	Result	Result	Limit	Remark
	[MHz]	[MHz]	[dBm]	[dB]	[dB]	[dBm]	[uW]	[uW]	
DC24V	2402	739.70	-80.35	1.84	10.00	-58.51	0.001	2.500	♦1
		2284.00	-71.19	1.84	10.00	-59.35	0.001	2.500	♦1
		2385.33	-71.09	1.84	10.00	-59.25	0.001	2.500	♦1
		2399.99	-45.97	1.84	10.00	-34.13	0.386	25.000	♦2
		2399.99	-45.97	1.84	10.00	-34.13	0.386	25.000	♦2
		3070.00	-69.25	1.84	10.00	-57.41	0.002	2.500	♦4
		7632.00	-66.93	1.84	10.00	-55.09	0.003	2.500	♦4
	2441	739.70	-79.72	1.84	10.00	-57.88	0.002	2.500	♦1
		2361.00	-71.96	1.84	10.00	-60.12	0.001	2.500	♦1
		3080.00	-68.86	1.84	10.00	-57.02	0.002	2.500	♦4
		6913.00	-66.86	1.84	10.00	-55.02	0.003	2.500	♦4
	2480	740.50	-79.42	1.84	10.00	-57.58	0.002	2.500	♦1
		2294.00	-71.58	1.84	10.00	-59.74	0.001	2.500	♦1
		2483.51	-70.72	1.84	10.00	-58.88	0.001	25.000	♦3
		2484.08	-70.20	1.84	10.00	-58.36	0.001	25.000	♦3
		2497.08	-70.97	1.84	10.00	-59.13	0.001	2.500	♦4
		3271.00	-68.98	1.84	10.00	-57.14	0.002	2.500	♦4
		7603.00	-66.85	1.84	10.00	-55.01	0.003	2.500	♦4

Sample Calculation :

Result = Reading + Cable Loss + Attenuator

♦1:Freq Range1 ( ≥ 30MHz, < 2,387MHz)

♦2:Freq Range2 ( ≥ 2,387MHz, < 2,400MHz)

♦3:Freq Range3 ( > 2,483.5MHz, ≤ 2,496.5MHz)

♦4:Freq Range4 ( > 2,496.5MHz, ≤ 12.5GHz)

Tx1\_SpuriousM\_Nom

Agilent 15:26:23 Mar 1, 2018

R L

Mkr1 739.7 MHz

-80.35 dBm

Ref 0 dBm

#Atten 10 dB

#Peak

Log  
10  
dB/

LgAv

V1 S2

Start 30.0 MHz

#Res BW 100 kHz

#VBW 100 kHz

Sweep 117 ms (1201 pts)

Stop 1.000 0 GHz

Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	739.7 MHz	-80.35 dBm

Tx1\_SpuriousG\_Nom

Agilent 09:11:13 Mar 1, 2018

R L

Mkr4 7.632 GHz

-66.93 dBm

Ref 0 dBm

#Atten 10 dB

#Peak

Log

10

dB/

LgAv

V1 S2

Start 1.000 GHz

Stop 12.500 GHz

#Res BW 1 MHz

#VBW 1 MHz

Sweep 19.2 ms (1201 pts)

Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	2.402 GHz	-13.27 dBm
2	(1)	Freq	2.284 GHz	-71.19 dBm
3	(1)	Freq	3.070 GHz	-69.25 dBm
4	(1)	Freq	7.632 GHz	-66.93 dBm

Tx1\_BandEdgeLow\_Nom

Agilent 09:11:52 Mar 1, 2018

R L

Mkr4 2.399 99 GHz

-45.97 dBm

Ref 0 dBm

#Atten 10 dB

#Peak

Log

10

dB/

LgAv

V1 S2

Start 2.320 00 GHz

Stop 2.420 00 GHz

#Res BW 1 MHz

#VBW 1 MHz

Sweep 1.04 ms (1201 pts)

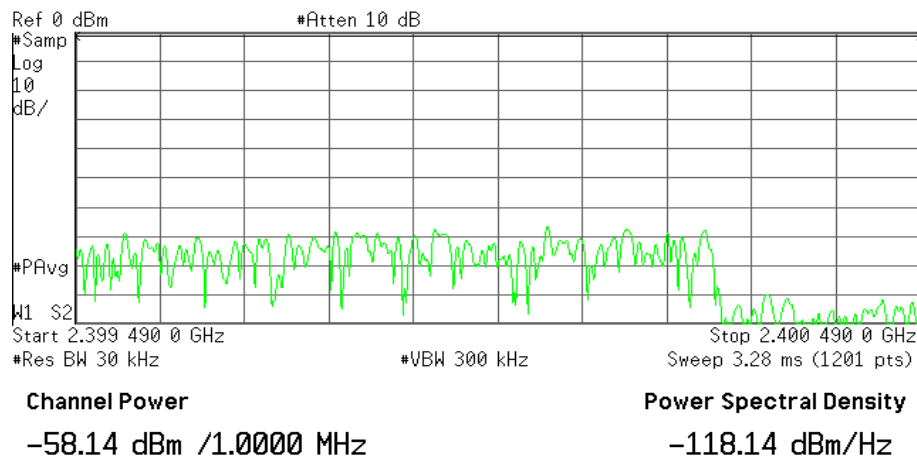
Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	2.401 03 GHz	-13.08 dBm
2	(1)	Freq	2.399 99 GHz	-45.97 dBm
3	(1)	Freq	2.385 33 GHz	-71.09 dBm
4	(1)	Freq	2.399 99 GHz	-45.97 dBm



Tx1\_BandEdgeLowZoom\_Nom

Agilent 09:12:06 Mar 1, 2018

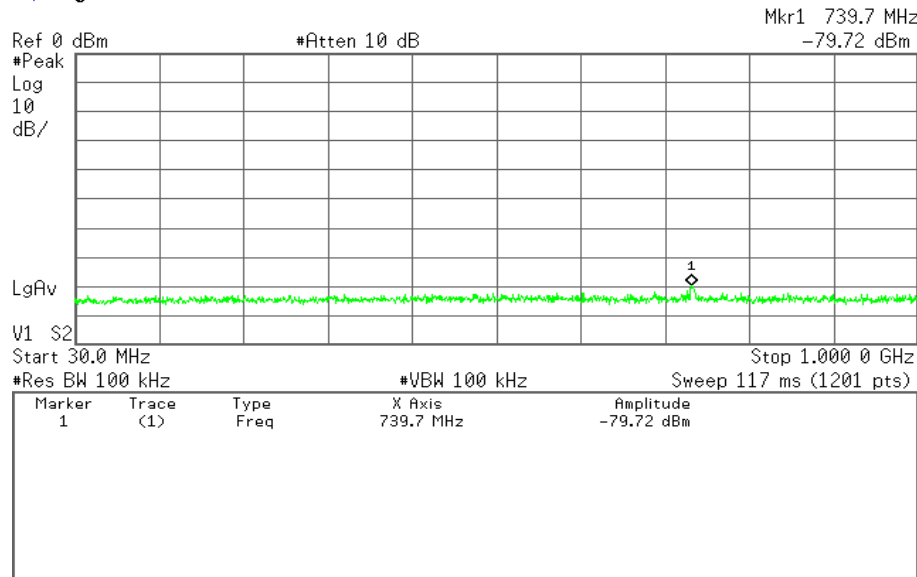
R L



Tx2\_SpuriousM\_Nom

Agilent 15:28:00 Mar 1, 2018

R L



Tx2\_SpuriousG\_Nom

Agilent 09:14:44 Mar 1, 2018

R L

Mkr4 6.913 GHz

-66.86 dBm

Ref 0 dBm

#Atten 10 dB

#Peak

Log

10

dB/

LgAv

V1 S2

Start 1.000 GHz

Stop 12.500 GHz

#Res BW 1 MHz

#VBW 1 MHz

Sweep 19.2 ms (1201 pts)

Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	2.441 GHz	-13.18 dBm
2	(1)	Freq	2.361 GHz	-71.96 dBm
3	(1)	Freq	3.080 GHz	-68.86 dBm
4	(1)	Freq	6.913 GHz	-66.86 dBm

Tx3\_SpuriousM\_Nom

Agilent 15:30:59 Mar 1, 2018

R L

Mkr1 740.5 MHz

-79.42 dBm

Ref 0 dBm

#Atten 10 dB

#Peak

Log

10

dB/

LgAv

V1 S2

Start 30.0 MHz

Stop 1.000 GHz

#Res BW 100 kHz

#VBW 100 kHz

Sweep 117 ms (1201 pts)

Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	740.5 MHz	-79.42 dBm

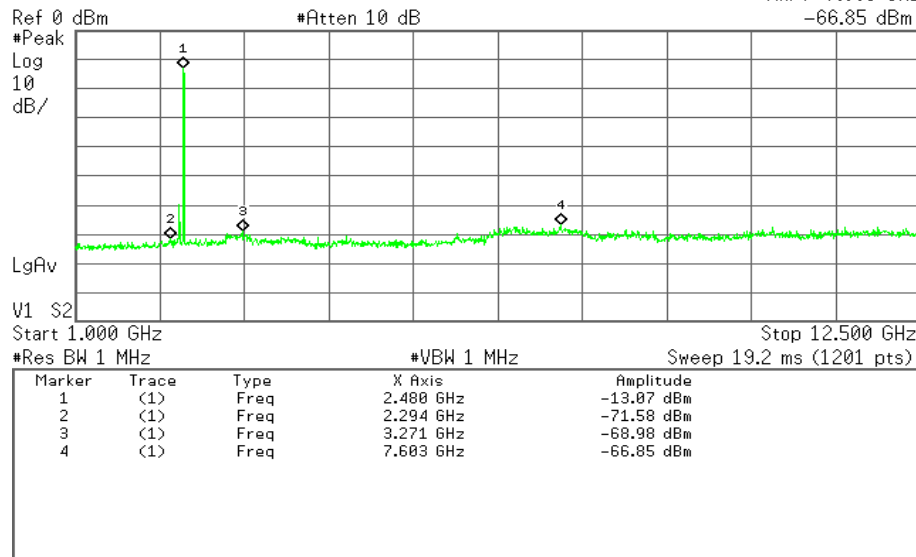
Tx3\_SpuriousG\_Nom

Agilent 09:16:16 Mar 1, 2018

R L

Mkr4 7.603 GHz

-66.85 dBm



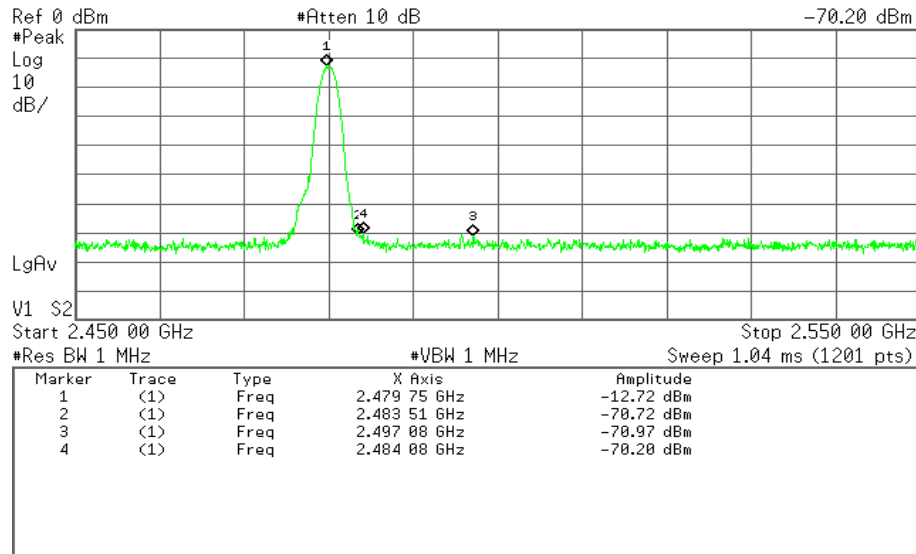
Tx3\_BandEdgeHigh\_Nom

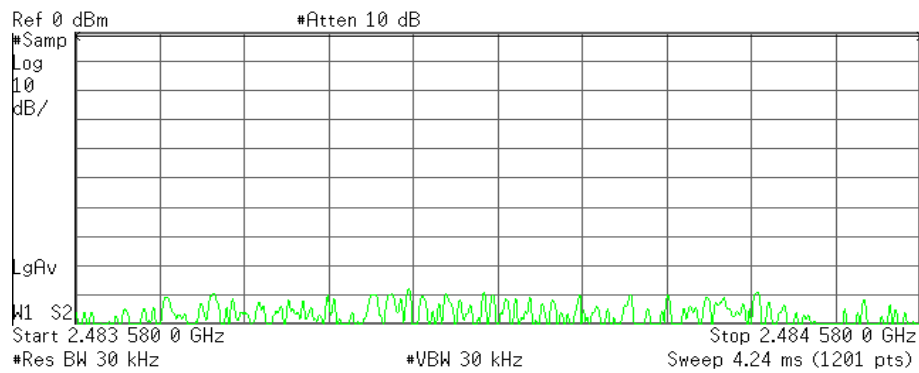
Agilent 09:16:43 Mar 1, 2018

R L

Mkr4 2.484 08 GHz

-70.20 dBm





Channel Power

-80.76 dBm /1.0000 MHz

Power Spectral Density

-140.76 dBm/Hz

## 2.4. Output Power

Job No.	R12161950-E6b
Remark1	8PSK
Remark2	

### [ DATA ]

Voltage	Freq. [MHz]	P/M(AV) Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Result A [W]	Spreading Bandwidth [MHz]	Burst Rate	Result B [W/MHz]	Tolerance [%]	Remark	Limit [W/MHz]	Limit Tolerance [%]
DC24V	2402	-15.14	1.84	10.00	0.000468	69.2320	1.30	0.000009	-31.4	-	0.003000	+20 ~ -80
	2441	-15.15	1.84	10.00	0.000467	69.2320	1.30	0.000009	-31.5	-	0.003000	+20 ~ -80
	2480	-14.98	1.84	10.00	0.000485	69.2320	1.30	0.000009	-28.8	-	0.003000	+20 ~ -80
	2441	-15.15	1.84	10.00	0.000467	20.0000	1.30	0.000030	-30.6	20HOP	0.003000	+20 ~ -80

Sample Calculation :

Result A =  $10^{((P/M \text{ Reading [dBm]} (\text{Detector:AV}) + \text{Cable Loss} + \text{Atten. Loss}) / 10)}$

Result B = (Result A / Spreading Bandwidth) \* Burst Rate

Tolerance = Result / Declared Output Power \* 100 - 100.

### [Declared Output Power]

Average of Power between Channels (79HOP)	0.000009	W/MHz
Declared Output Power 1	0.000013	W/MHz
+20	0.000015	W/MHz
Middle (Declared Output Power -30%)	0.000009	W/MHz
-80	0.000003	W/MHz

### (Bluetooth, 20HOP(AFH))

20HOP	0.000030	W/MHz
Declared Output Power 2	0.000044	W/MHz
+20	0.000052	W/MHz
Middle (Declared Output Power -30%)	0.000031	W/MHz
-80	0.000009	W/MHz

Antenna Gain	2.20	dBi
E.I.R.P. for Declared Output Power 1	-16.73	dBm/MHz
E.I.R.P. for Declared Output Power 2	-11.40	dBm/MHz
Limit	6.91	dBm/MHz

Sample Calculation :

E.I.R.P. for Declared Output Power =  $10 * \text{Log} (\text{Declared Output Power} * 1000) + \text{Antenna Gain}$

## 2.4. Output Power

Job No.	R12161950-E6b
Remark1	DQPSK
Remark2	

### [ DATA ]

Voltage	Freq. [MHz]	P/M(AV) Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Result A [W]	Spreading Bandwidth [MHz]	Burst Rate	Result B [W/MHz]	Tolerance [%]	Remark	Limit [W/MHz]	Limit Tolerance [%]
DC24V	2402	-15.12	1.84	10.00	0.000470	69.2320	1.30	0.000009	-31.4	-	0.003000	+20 ~ -80
	2441	-15.11	1.84	10.00	0.000471	69.2320	1.30	0.000009	-31.3	-	0.003000	+20 ~ -80
	2480	-14.97	1.84	10.00	0.000486	69.2320	1.30	0.000009	-29.0	-	0.003000	+20 ~ -80
	2441	-15.11	1.84	10.00	0.000471	20.0000	1.30	0.000031	-30.6	20HOP	0.003000	+20 ~ -80

Sample Calculation :

Result A =  $10^{\frac{1}{10} \left( \text{P/M Reading [dBm]} (\text{Detector:AV}) + \text{Cable Loss} + \text{Atten. Loss} \right)}$

Result B = (Result A / Spreading Bandwidth) \* Burst Rate

Tolerance = Result / Declared Output Power \* 100 - 100.

### [Declared Output Power]

Average of Power between Channels (79HOP)	0.000009	W/MHz
Declared Output Power 1	0.000013	W/MHz
+20	0.000015	W/MHz
Middle (Declared Output Power -30%)	0.000009	W/MHz
-80	0.000003	W/MHz

### (Bluetooth, 20HOP(AFH))

20HOP	0.000031	W/MHz
Declared Output Power 2	0.000044	W/MHz
+20	0.000053	W/MHz
Middle (Declared Output Power -30%)	0.000031	W/MHz
-80	0.000009	W/MHz

Antenna Gain	2.20	dBi
E.I.R.P. for Declared Output Power 1	-16.71	dBm/MHz
E.I.R.P. for Declared Output Power 2	-11.36	dBm/MHz
Limit	6.91	dBm/MHz

Sample Calculation :

E.I.R.P. for Declared Output Power =  $10 * \log (\text{Declared Output Power} * 1000) + \text{Antenna Gain}$

2.5. Secondary Radiated Emission Strength

Job No.	R12161950-E6b
Remark1	8PSK
Remark2	

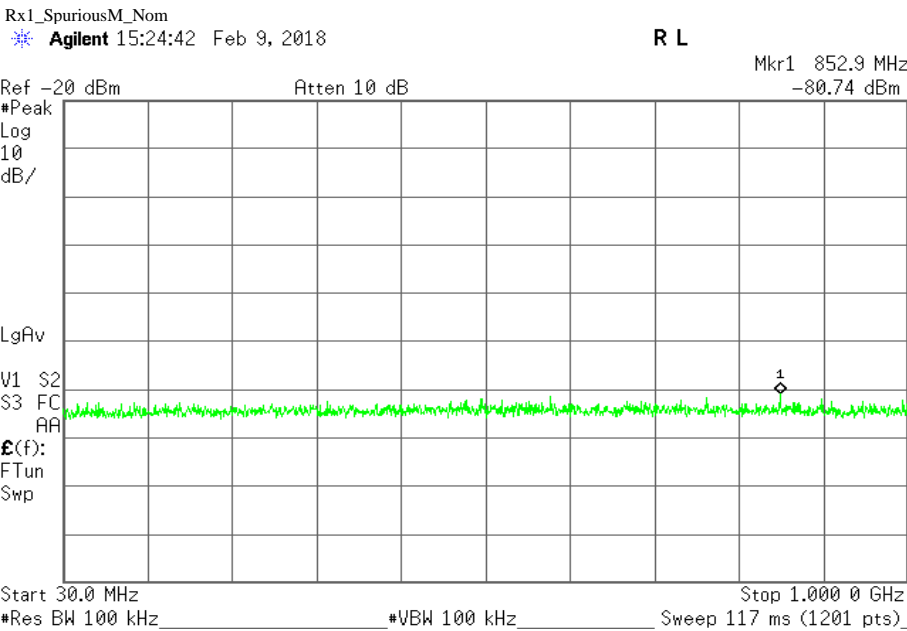
[ DATA ]

Voltage	Freq.	Freq.	S/A Reading	Cable Loss	Atten. Loss	Result	Result	Limit	Remark
[V]	[MHz]	[MHz]	[dBm]	[dB]	[dB]	[dBm]	[nW]	[nW]	
DC24V	2402	852.9	-80.74	1.84	10.00	-68.90	0.129	4.000	◆5
		7660.0	-67.52	1.84	10.00	-55.68	2.702	20.000	◆6

The sum of the results exceeding 1/10 of the Limit [nW] : 2.702

Sample Calculation :  
Result = Reading + Cable Loss+atten loss  
◆5:Freq Range5 (≥ 30MHz, <1GHz)  
◆6:Freq Range6 (≥ 1GHz, ≤ 12.5GHz)

[CHART] (V: Normal)



Rx1\_SpuriousG\_Nom

Agilent 15:24:30 Feb 9, 2018

R L

Mkr1 7.660 GHz

Ref -20 dBm

Atten 10 dB

-67.52 dBm

#Peak  
Log  
10  
dB/

LgAv

V1 S2  
S3 FC  
AA

£(f):  
FTun  
Swp

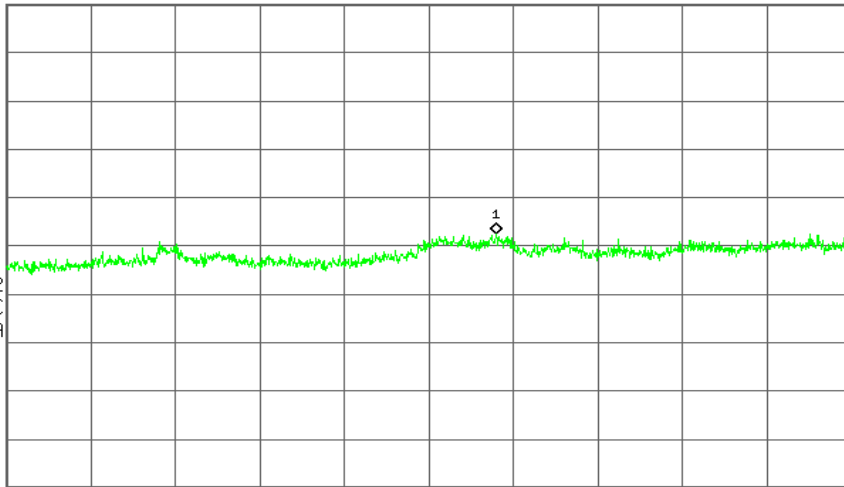
Start 1.000 GHz

Stop 12.500 GHz

#Res BW 1 MHz

#VBW 1 MHz

Sweep 19.2 ms (1201 pts)





2.5. Secondary Radiated Emission Strength

Job No.	R12161950-E6b
Remark1	8PSK
Remark2	

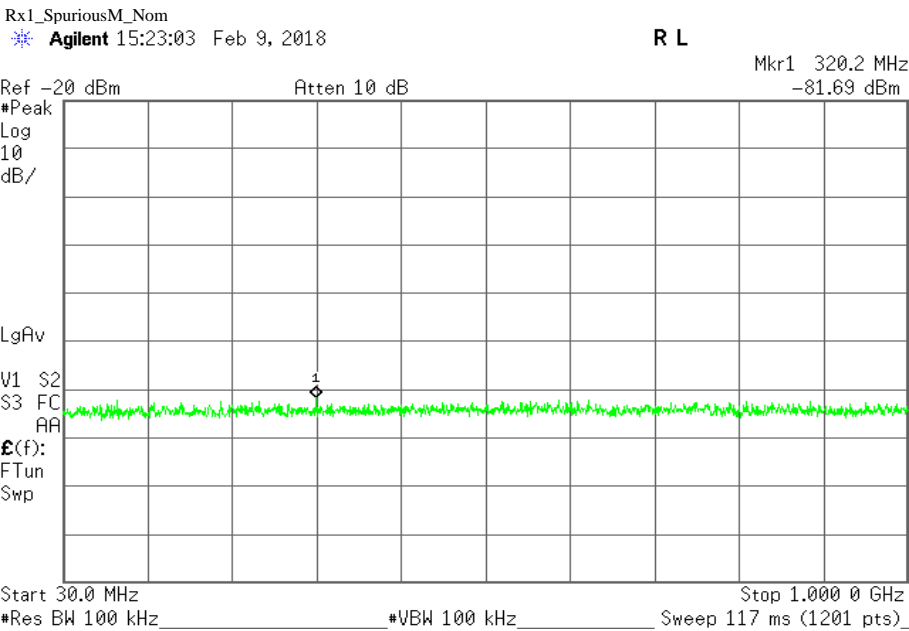
[ DATA ]

Voltage	Freq.	Freq.	S/A Reading	Cable Loss	Atten. Loss	Result	Result	Limit	Remark
[V]	[MHz]	[MHz]	[dBm]	[dB]	[dB]	[dBm]	[nW]	[nW]	
DC24V	2441	320.2	-81.69	1.84	10.00	-69.85	0.104	4.000	◆5
		7517.0	-66.48	1.84	10.00	-54.64	3.436	20.000	◆6

The sum of the results exceeding 1/10 of the Limit [nW] : 3.436

Sample Calculation :  
Result = Reading + Cable Loss+Atten Loss  
◆5:Freq Range5 (≥ 30MHz, <1GHz)  
◆6:Freq Range6 (≥ 1GHz, ≤ 12.5GHz)

[CHART] (V: Normal)



Rx1\_SpuriousG\_Nom

Agilent 15:22:50 Feb 9, 2018

R L

Mkr1 7.517 GHz

Ref -20 dBm

Atten 10 dB

-66.48 dBm

#Peak  
Log  
10  
dB/

LgAv

V1 S2  
S3 FC  
AA

£(f):  
FTun  
Swp

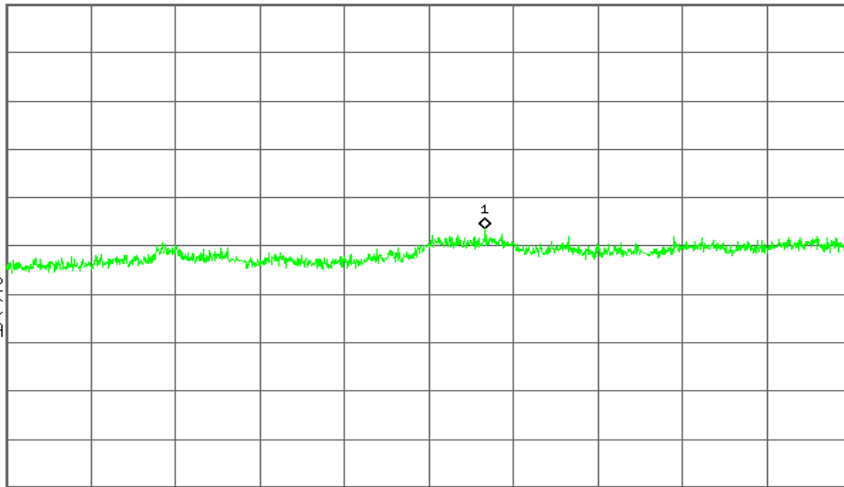
Start 1.000 GHz

Stop 12.500 GHz

#Res BW 1 MHz

#VBW 1 MHz

Sweep 19.2 ms (1201 pts)



2.5. Secondary Radiated Emission Strength

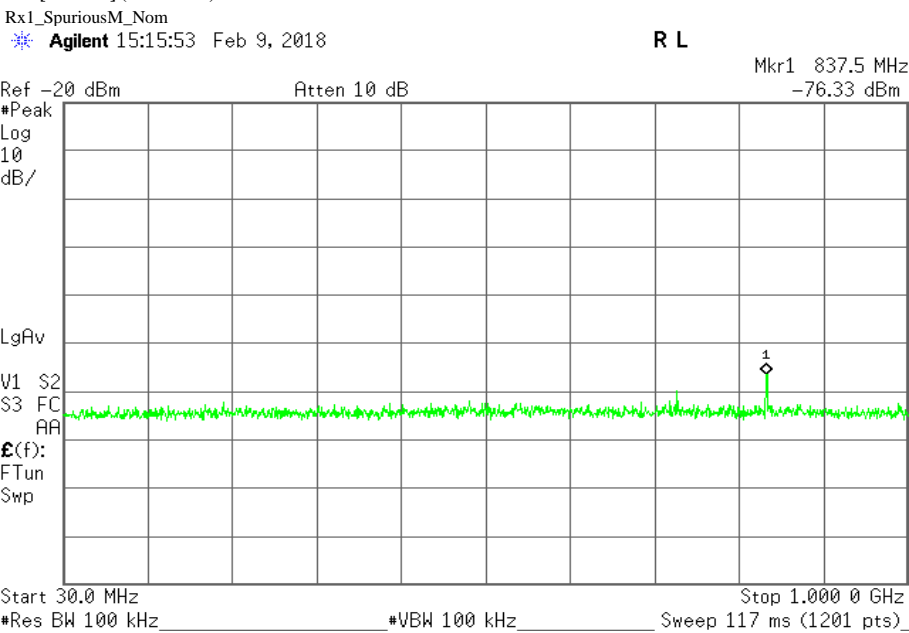
Job No.	R12161950-E6b
Remark1	8PSK
Remark2	

[ DATA ]									
Voltage	Freq.	Freq.	S/A Reading	Cable Loss	Atten. Loss	Result	Result	Limit	Remark
[V]	[MHz]	[MHz]	[dBm]	[dB]	[dB]	[dBm]	[nW]	[nW]	
DC24V	2480	837.5	-76.33	1.84	10.00	-64.49	0.356	4.000	◆5
		7584.0	-67.05	1.84	10.00	-55.21	3.015	20.000	◆6

The sum of the results exceeding 1/10 of the Limit [nW] : 3.015

Sample Calculation :  
Result = Reading + Cable Loss + Atten Loss  
◆5:Freq Range5 (≥ 30MHz, <1GHz)  
◆6:Freq Range6 (≥ 1GHz, ≤ 12.5GHz)

[CHART] (V: Normal)



Rx1\_SpuriousG\_Nom

Agilent 15:15:40 Feb 9, 2018

R L

Mkr1 7.584 GHz  
-67.05 dBm

Ref -20 dBm

Atten 10 dB

#Peak  
Log  
10  
dB/

LgAv

V1 S2  
S3 FC  
AA

£(f):  
FTun  
Swp

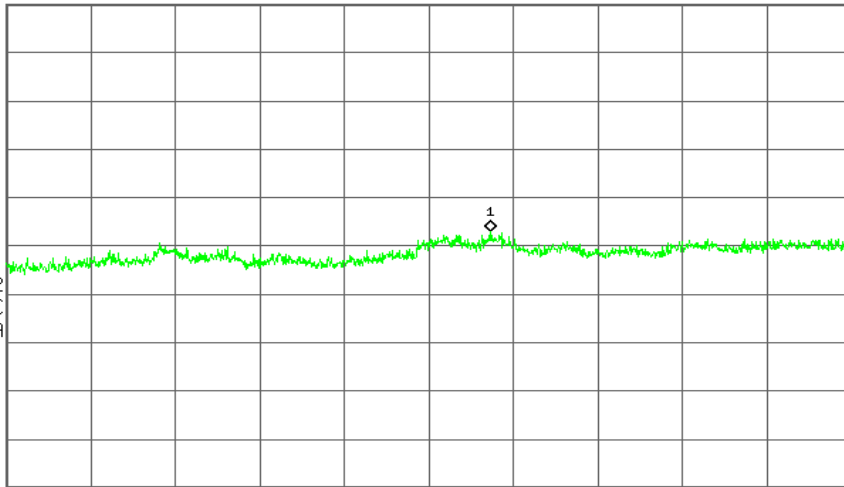
Start 1.000 GHz

Stop 12.500 GHz

#Res BW 1 MHz

#VBW 1 MHz

Sweep 19.2 ms (1201 pts)



## 2.6. Dwell Time/ Duty

Job No. R12161950-E6b  
 Remark1 8PSK  
 Remark2

### [ DATA ]

Voltage	Freq.		Spreading Bandwidth	On Time	Period	Result (Duty)	Symbol Rate	Hopping Number	Result (Dwell time)	Limit
[V]	[MHz]	[sec]	[MHz]	[msec]	[msec]	[ % ]	[Mbps]	[times]	[sec]	[sec]
DC24V	2441	0.4	69.2320	2.892	3.759	76.9	1.0	79	0.270	0.4

Sample Calculation :

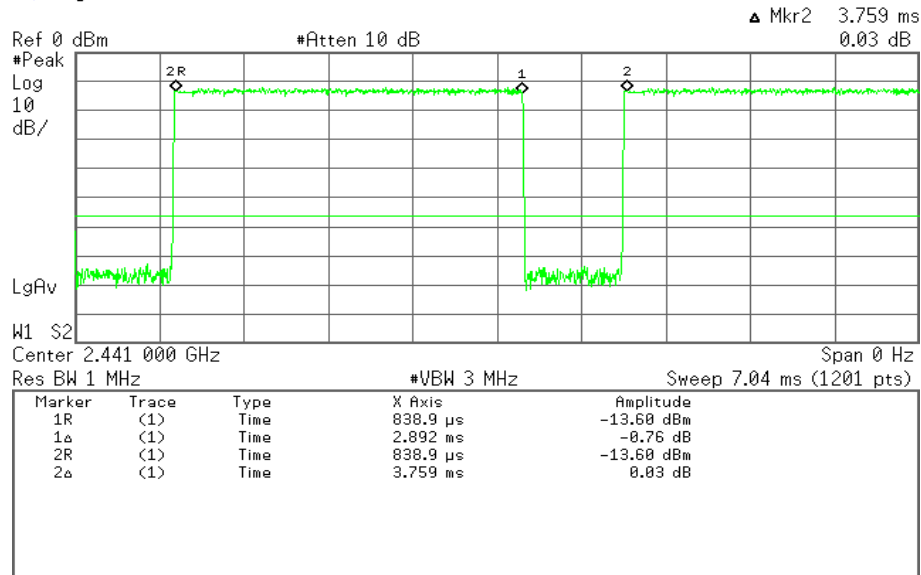
Result(Duty) = On Time / Period \* 100

Result (Dwell Time)= (0.4 \* Spreading Bandwidth [MHz] \* On Time / Symbol Rate [Mbps]) / (Period \* Hopping Number)

Tx2\_BurstRate\_Nom

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## 2.6. Dwell Time/ Duty

Job No. R12161950-E6b

Remark1 DQPSK

Remark2

### [ DATA ]

Voltage	Freq.		Spreading Bandwidth	On Time	Period	Result (Duty)	Symbol Rate	Hopping Number	Result (Dwell time)	Limit
[V]	[MHz]	[sec]	[MHz]	[msec]	[msec]	[ % ]	[Mbps]	[times]	[sec]	[sec]
DC24V	2441	0.4	70.6294	2.892	3.759	76.9	1.0	79	0.275	0.4

Sample Calculation :

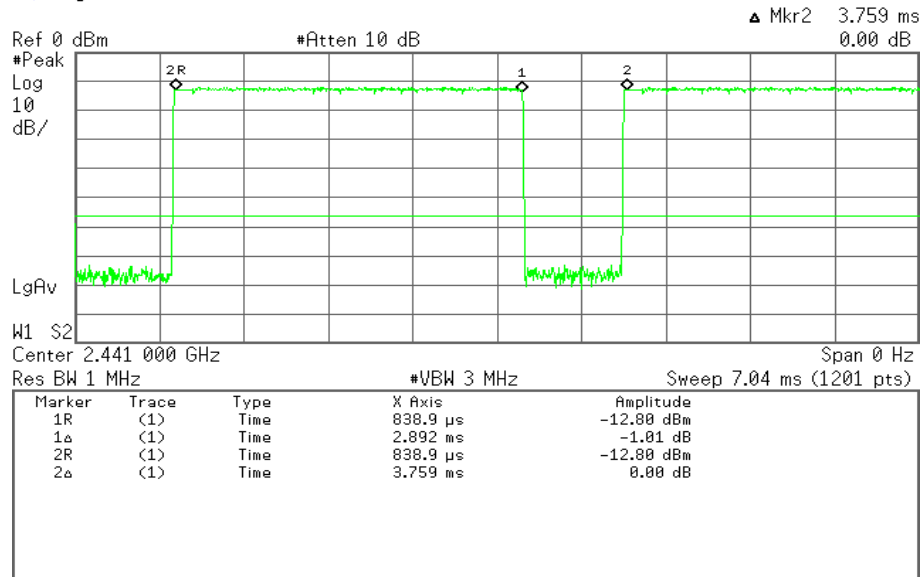
Result(Duty) = On Time / Period \* 100

Result (Dwell Time)= (0.4 \* Spreading Bandwidth [MHz] \* On Time / Symbol Rate [Mbps]) / (Period \* Hopping Number)

Tx2\_BurstRate\_Nom

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### 3. Measurement Equipment

Use	Int. No.	Kind of Equipment	Model No.	Manufacturer	Serial No.	Calibration Authority	Calibration Date
X	SA0020	Spectrum Analyzer	E4446A	Agilent	MY221100033	Keysight Calibration	2017-11-06
X	PWM002	Power Meter	N1911A	Keysight	MY55116001	World Cal Inc	2017-07-17
X	PWS004	Power Sensor	E9323A	Keysight	MY55110008	World Cal Inc	2017-07-17
X	EC0225	Temp Chamber	Z8 Plus	Cincinnati Sub-Zero	1100502	C & C Technologies	2017-06-06
X	161016511	Enviromental Meter	15-077-963	Fisher Scientific	161016511	Traceable Calibration	2016-12-21

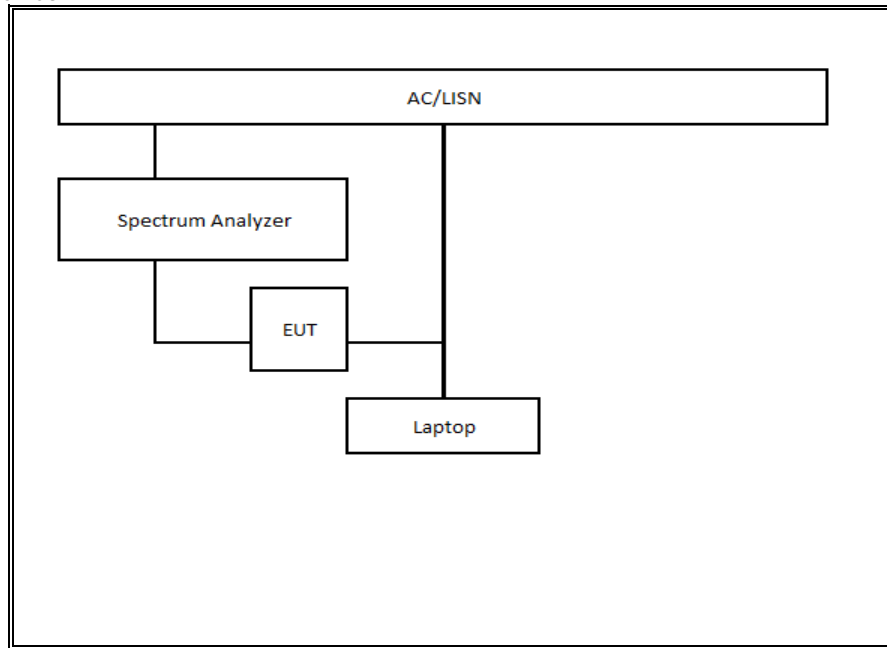
- Note :
1. The calibration of measurement equipment is valid for a one year period. 2yrs for the Environmental Meter
  2. "X" used equipment.
  3. All equipment is calibrated and traceable to ISO17025

### 4. Test Condition

Test Item	Date	Temp	Hum	Engineer	Test Room
Frequency Tolerance	2018-02-09	25	45	Jeffrey Cabrera	MOR CON 2
Occupied Bandwidth	2018-03-01	25	45	Jeffrey Cabrera	MOR CON 2
Unwanted Emission Strength	2018-03-01	25	45	Jeffrey Cabrera	MOR CON 2
Output Power/ E.I.R.P	2018-03-01	25	45	Jeffrey Cabrera	MOR CON 2
Secondary Radiated Emission Strength	2018-02-09	25	45	Jeffrey Cabrera	MOR CON 2
Burst Length / Duty	2018-03-01	25	45	Jeffrey Cabrera	MOR CON 2

## 5. TEST CONFIGURATION

TEST CIRCUIT



PHOTO

