

Precheck were made in DH1, DH3 and DH5 data packets and it was found that worst case results are obtained for DH5. The worst case data corresponding to DH5 is given in this test report. DH5 corresponds to modulation GFSK,  
2DH5 corresponds to modulation  $\pi/4$ DQPSK,  
3DH5 corresponds to modulation 8DPSK.

### 20dB Bandwidth

Test Data

Test Equipment: Refer to Table 4-4.

Operation mode: A, B, C

Modulation Type : 1, 2

Test Condition of Instrument

EUT Warm-up Time: 30 minutes

Date : September 27, 2011

Temp. : 22 deg.C

Humid. : 45 %

Operation mode: A

Frequency [MHz]	Modulation Type	20dB Bandwidth [MHz]
2402.00	DH5	0.903
2402.00	2-DH5	1.278
2402.00	3-DH5	1.281

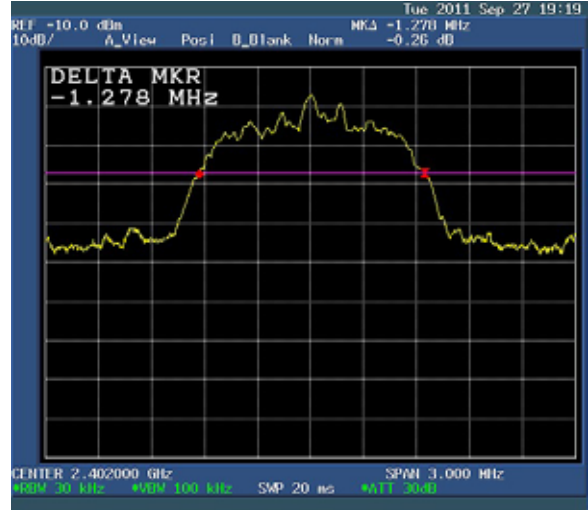
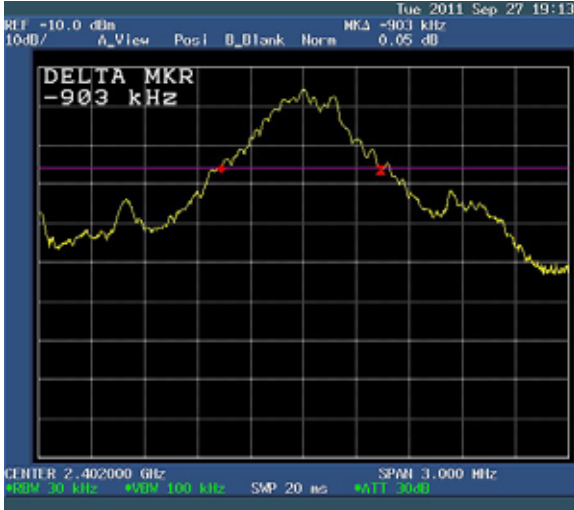
Operation mode: B

Frequency [MHz]	Modulation Type	20dB Bandwidth [MHz]
2441.00	DH5	0.900
2441.00	2-DH5	1.302
2441.00	3-DH5	1.290

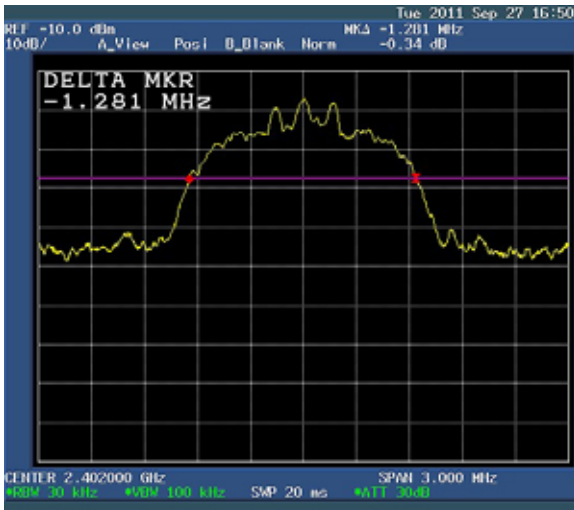
Operation mode: C

Frequency [MHz]	Modulation Type	20dB Bandwidth [MHz]
2480.00	DH5	0.900
2480.00	2-DH5	1.293
2480.00	3-DH5	1.293

2-DH5



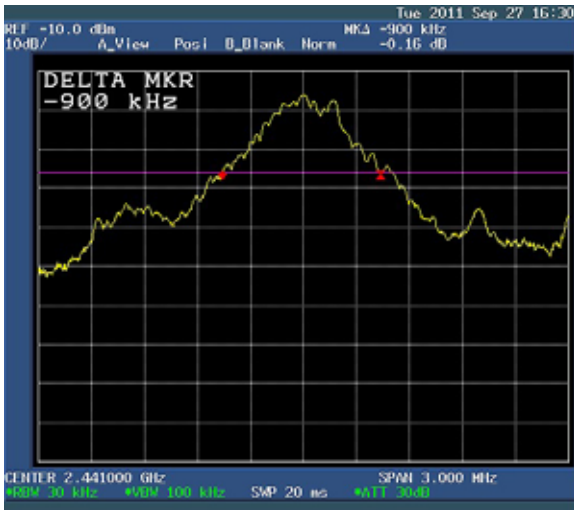
3-DH5



· 2441MHz

DH5

2-DH5



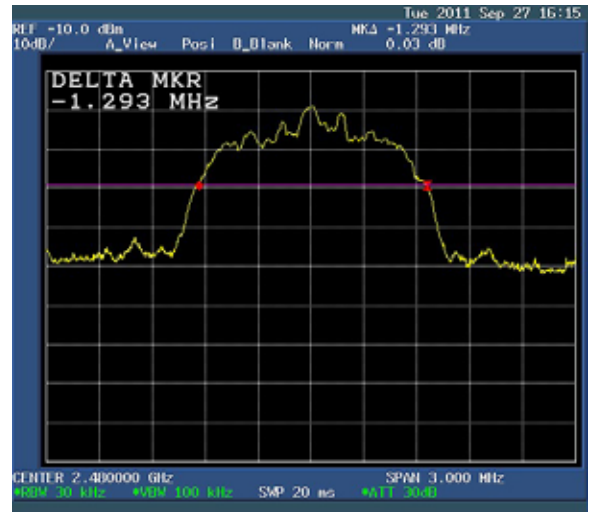
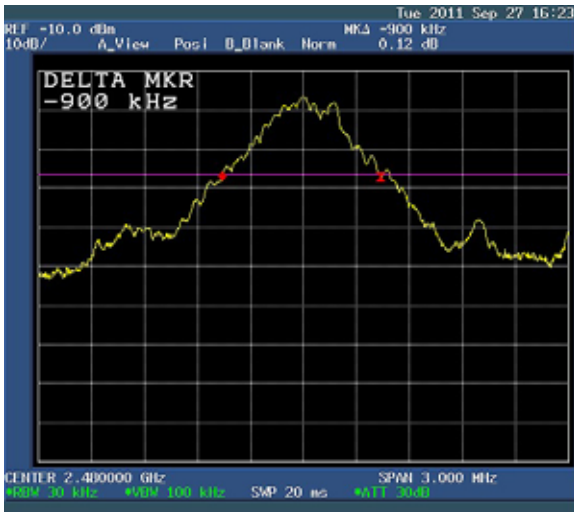
3-DH5



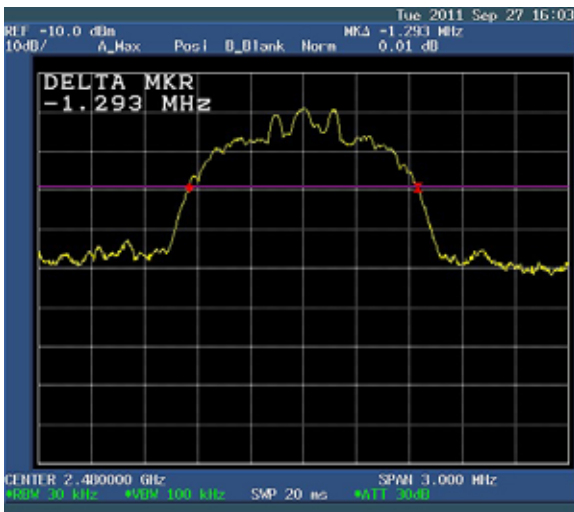
• 2480MHz

DH5

2-DH5



3-DH5



**Hopping Characteristics: Carrier Frequency Separation**

Test Data

Test Equipment: Refer to Table 4-4.

Operation mode: D

Modulation Type: 1, 2

Test Condition of Instrument

EUT Warm-up Time: 30 minutes

Date : September 27, 2011

Temp. : 22 deg.C

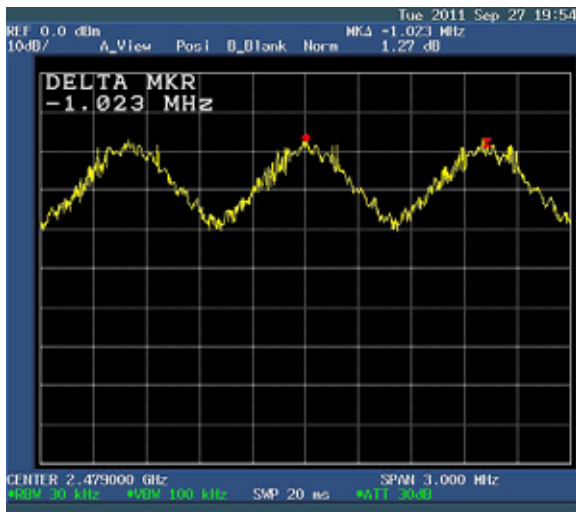
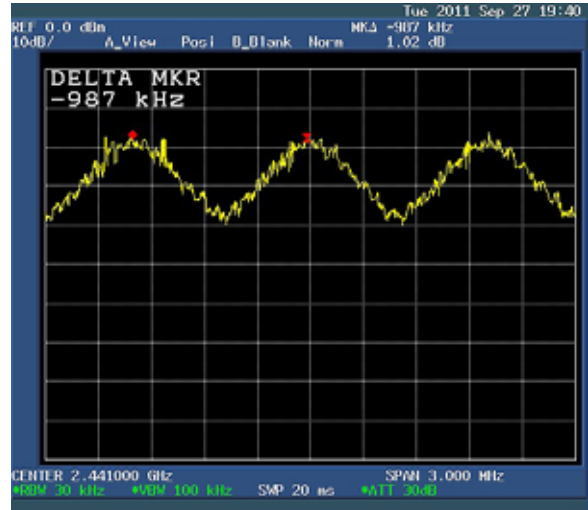
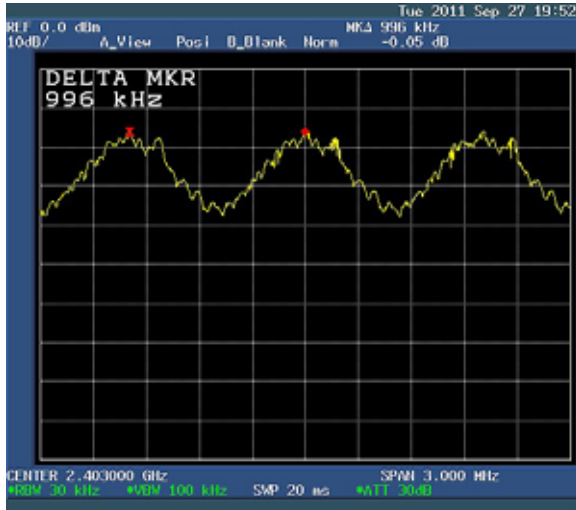
Humid. : 45 %

Modulation Type	Frequency [MHz]	20dB Bandwidth [MHz]	Carrier Frequency Separation [MHz]	Limit [MHz]
DH5	2402.00	0.903	0.996	$\geq 0.602$
DH5	2441.00	0.900	0.987	$\geq 0.600$
DH5	2480.00	0.900	1.023	$\geq 0.600$

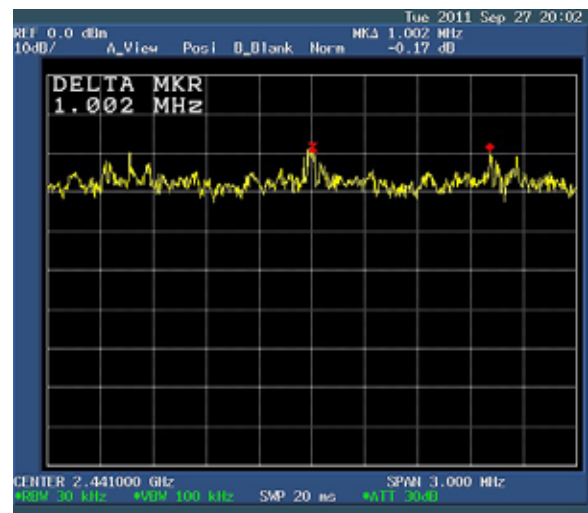
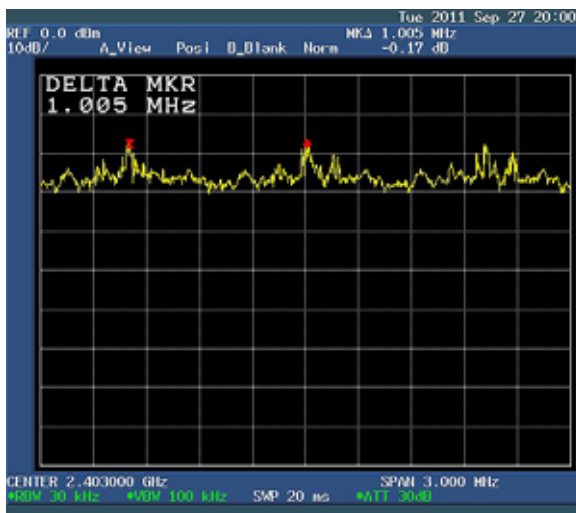
Modulation Type	Frequency [MHz]	20dB Bandwidth [MHz]	Carrier Frequency Separation [MHz]	Limit [MHz]
2DH5	2402.00	1.278	1.005	$\geq 0.852$
2DH5	2441.00	1.302	1.002	$\geq 0.868$
2DH5	2480.00	1.293	1.041	$\geq 0.862$

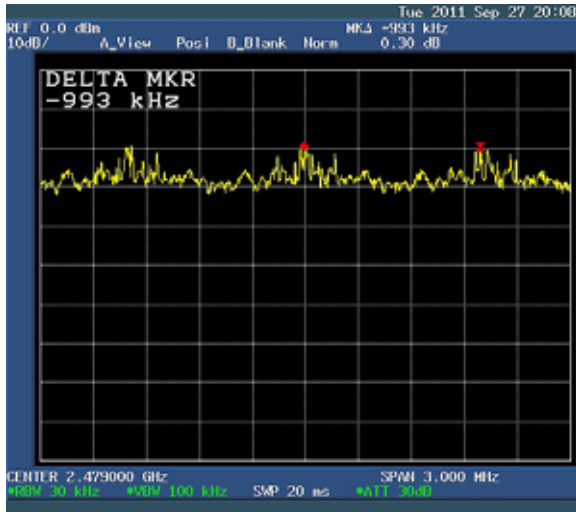
Modulation Type	Frequency [MHz]	20dB Bandwidth [MHz]	Carrier Frequency Separation [MHz]	Limit [MHz]
3DH5	2402.00	1.281	0.990	$\geq 0.854$
3DH5	2441.00	1.290	0.987	$\geq 0.860$
3DH5	2480.00	1.293	1.014	$\geq 0.862$

• DH5

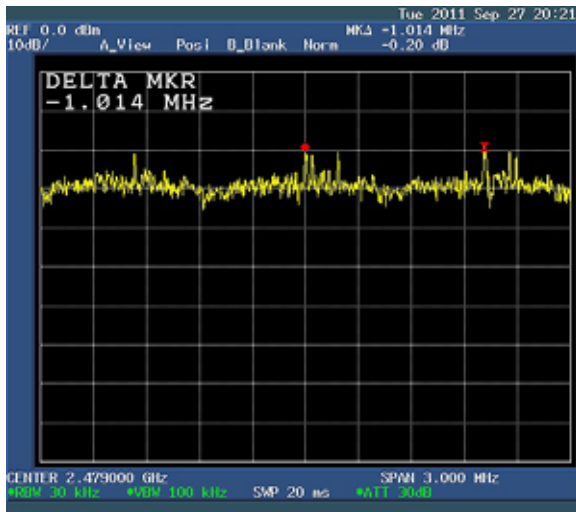
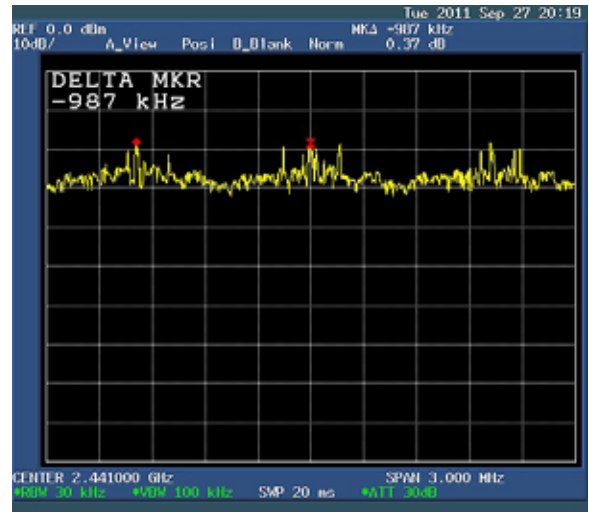
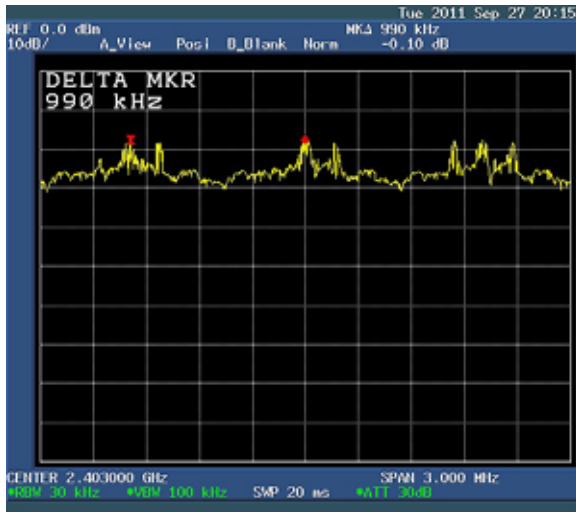


• 2-DH5





• 3-DH5



**Hopping Characteristics: Number of Hopping Frequencies**

Test Data

Test Equipment: Refer to Table 4-4.

Operation mode: D

Modulation Type : 1, 2

Test Condition of Instrument

EUT Warm-up Time: 30 minutes

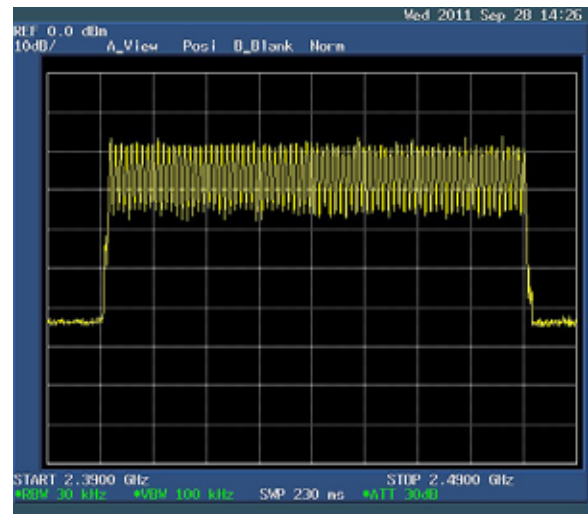
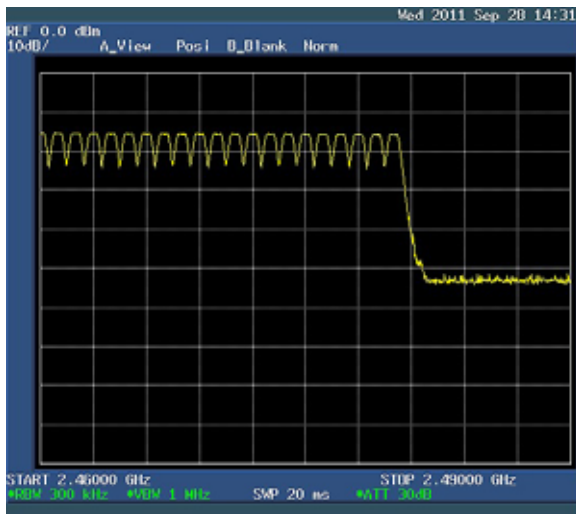
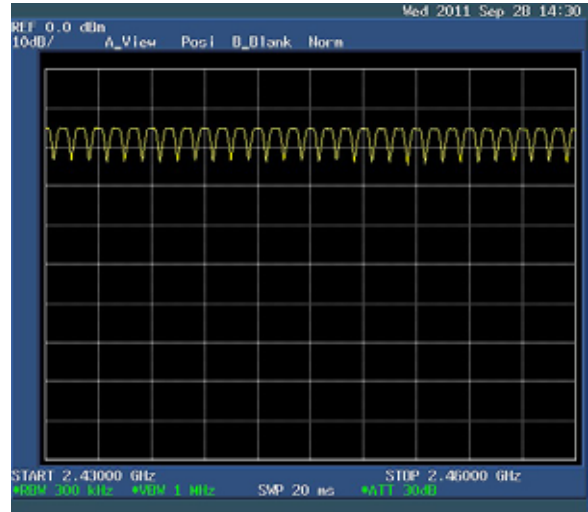
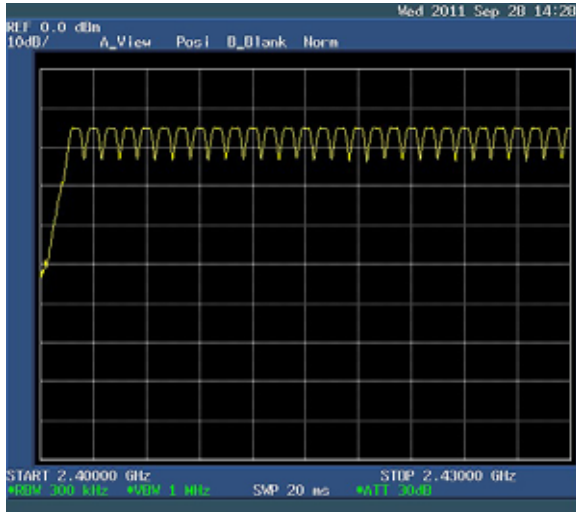
Date : September 28, 2011

Temp. : 23 deg.C

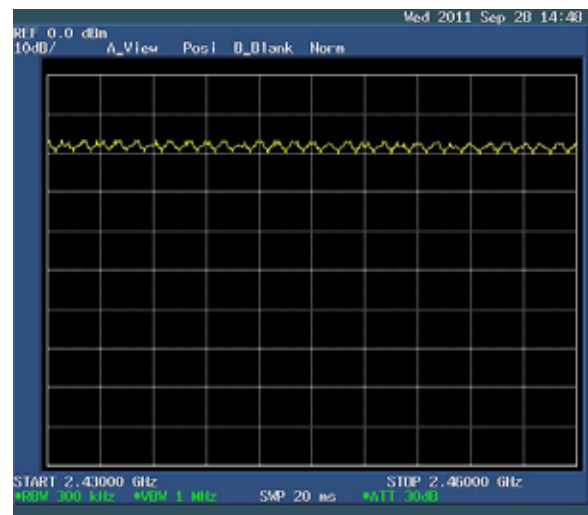
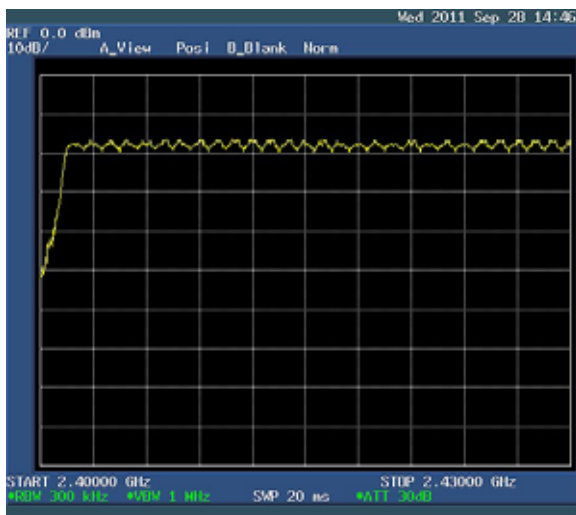
Humid. : 45 %

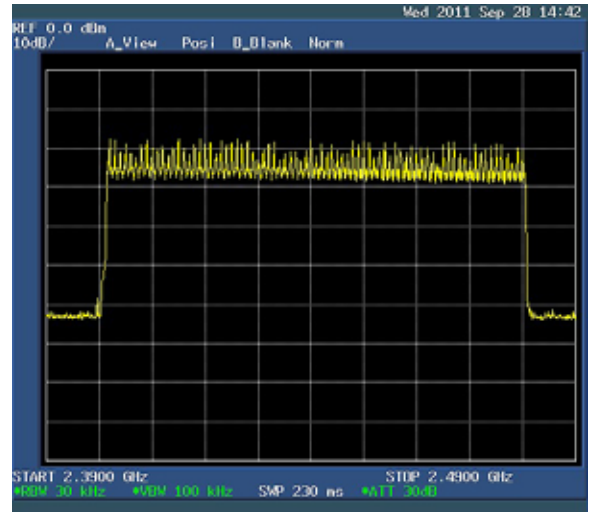
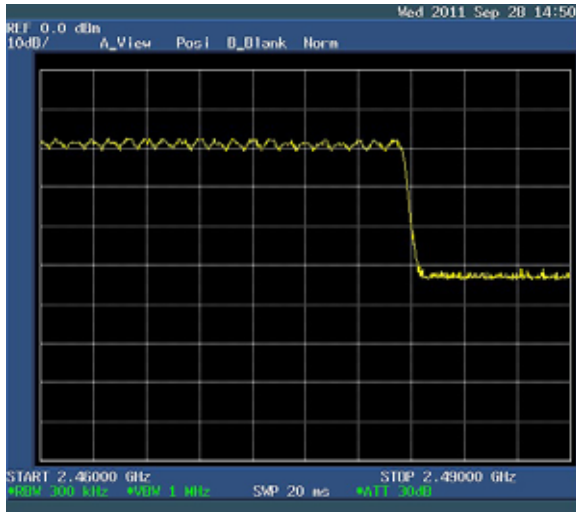
Modulation Type	Number of Channel [Times]	Limit [Times]
DH5	79	$\geq 15$
2-DH5	79	$\geq 15$
3-DH5	79	$\geq 15$

· DH5

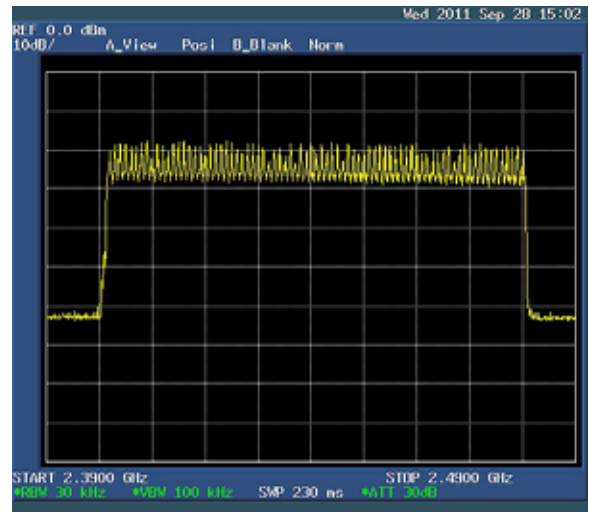
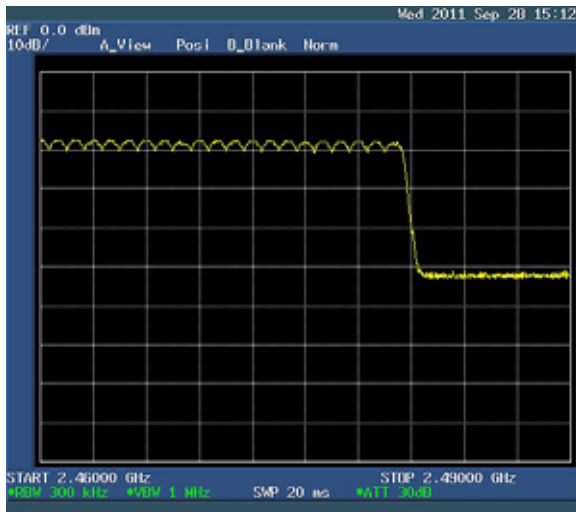
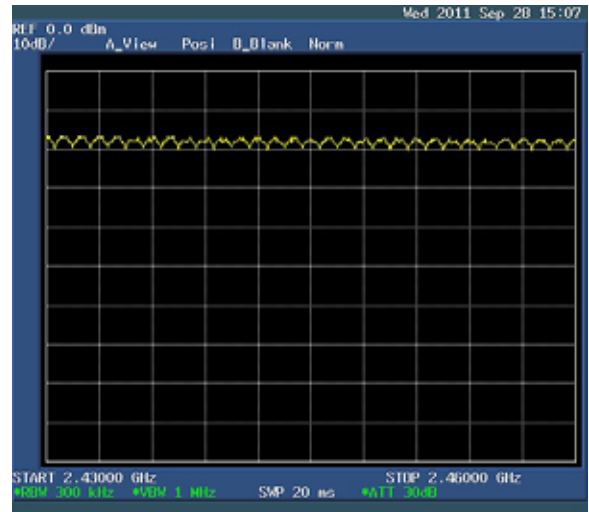
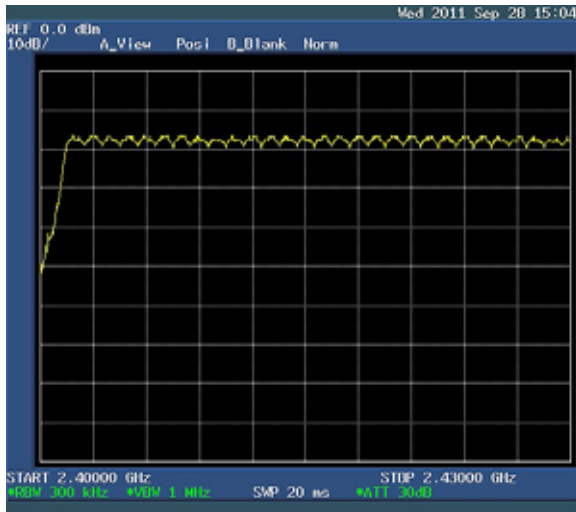


· 2-DH5





• 3-DH5



**Hopping Characteristics: Average Time of Occupancy**

Test Data

Test Equipment: Refer to Table 4-4.

Operation mode: D

Modulation Type : 1, 2

Test Condition of Instrument

EUT Warm-up Time: 30 minutes

Date : September 29, 2011

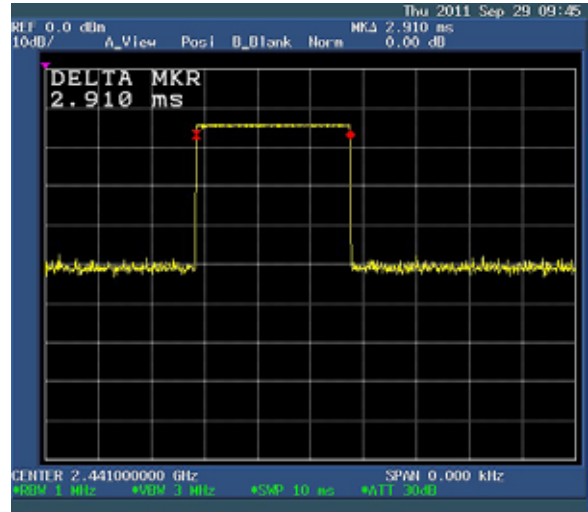
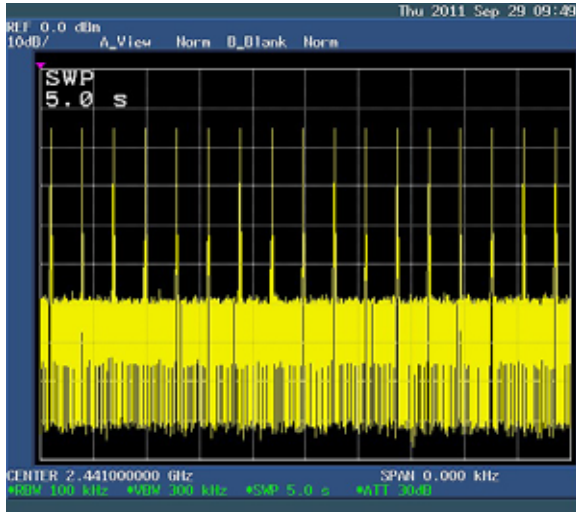
Temp. : 22 deg.C

Humid. : 48 %

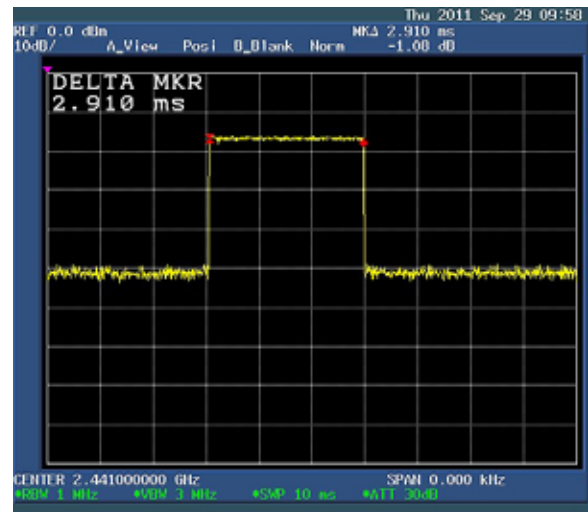
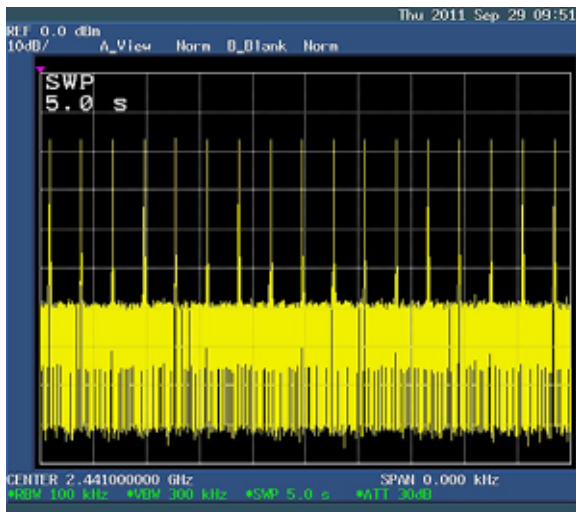
Modulation Type	Number of Transmission in 5.0sec [Times]	Number of Transmission in Hopping Channel×0.4 [Times]	Transmission Time [msec]	Result [msec]	Limit [msec]
DH5	17	108	2.910	315	400
2-DH5	17	108	2.910	315	400
3-DH5	17	108	2.910	315	400

Result = (Number of transmission in Hopping Channel × 0.4) × Transmission time

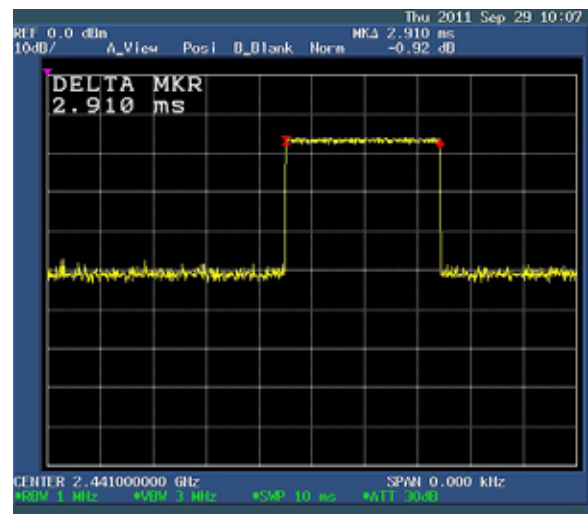
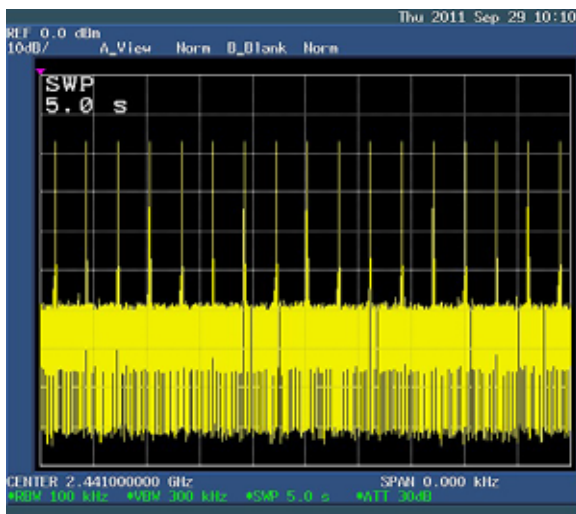
• DH5



• 2-DH5



• 3-DH5



**Peak Transmitter Output Power**

Test Data

Test Equipment: Refer to Table 4-5.

Operation mode: A, B, C

Modulation Type : 1, 2

Test Condition of Instrument

EUT Warm-up Time: 30 minutes

Date : September 29, 2011

Temp. : 22 deg.C

Humid. : 48 %

Operation mode: A

Frequency [MHz]	Modulation Type	Reading Value [dBm]	Attenuator factor [dB]	Cable Loss [dB]	Correction Value [dBm]	Limit [dBm]	Margin [dB]
2402.00	DH5	-14.84	-20.13	-1.04	6.33	20.97	14.64
2402.00	2-DH5	-15.67	-20.13	-1.04	5.50	20.97	15.47
2402.00	3-DH5	-15.56	-20.13	-1.04	5.61	20.97	15.36

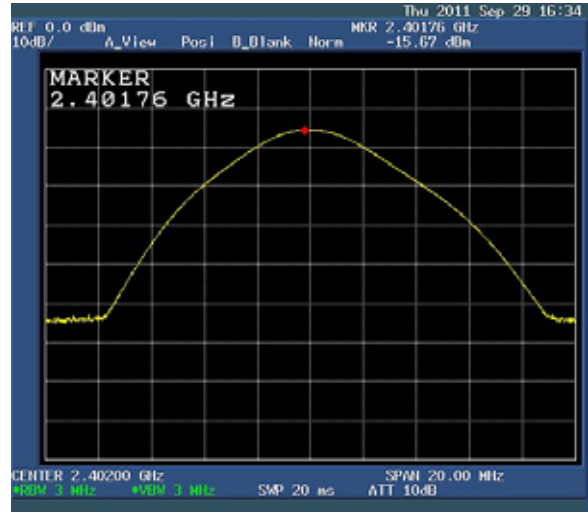
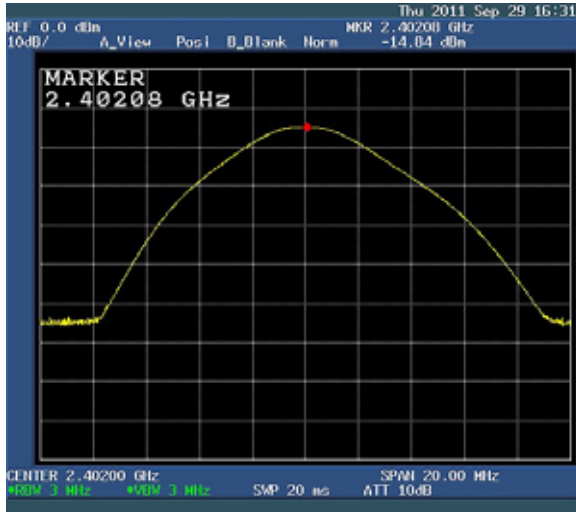
Operation mode: B

Frequency [MHz]	Modulation Type	Reading Value [dB $\mu$ V]	Attenuator [dB]	Cable Loss [dB]	Correction Value [dB $\mu$ V]	Limit [dBm]	Margin [dB]
2441.00	DH5	-14.84	-20.13	-1.05	6.34	20.97	14.63
2441.00	2-DH5	-16	-20.13	-1.05	5.18	20.97	15.79
2441.00	3-DH5	-15.8	-20.13	-1.05	5.38	20.97	15.59

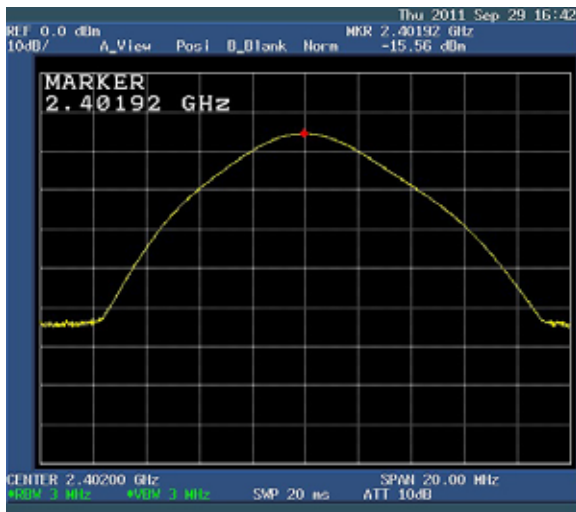
Operation mode: C

Frequency [MHz]	Modulation Type	Reading Value [dB $\mu$ V]	Attenuator [dB]	Cable Loss [dB]	Correction Value [dB $\mu$ V]	Limit [dBm]	Margin [dB]
2480.00	DH5	-15.31	-20.13	-1.07	5.89	20.97	15.08
2480.00	2-DH5	-16.79	-20.13	-1.07	4.41	20.97	16.56
2480.00	3-DH5	-16.57	-20.13	-1.07	4.63	20.97	16.34

2-DH5



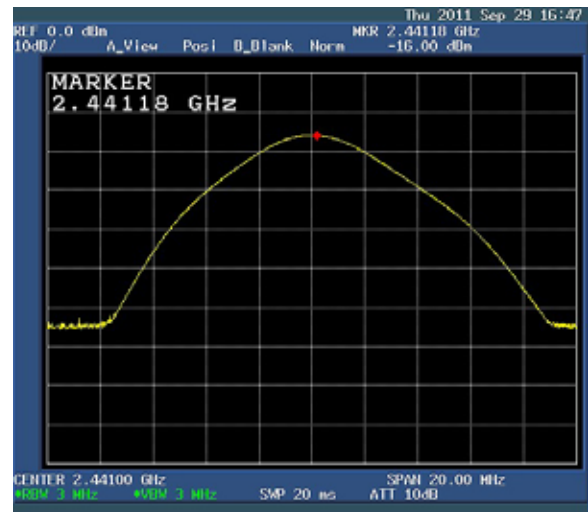
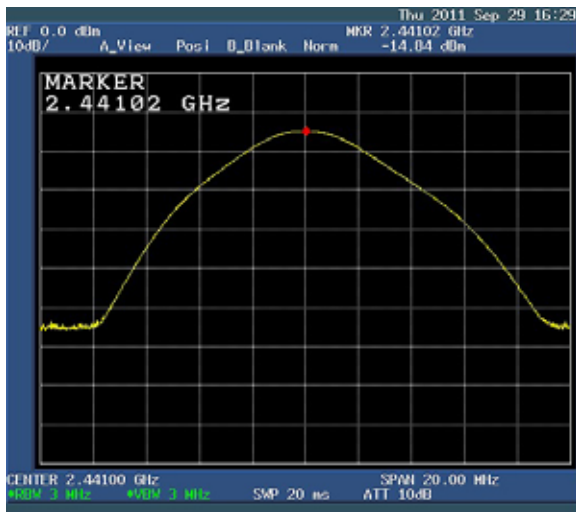
3-DH5

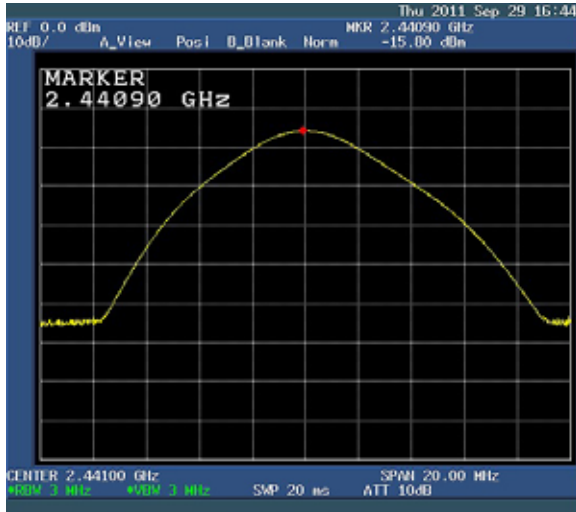


· 2441MHz

DH5

2-DH5

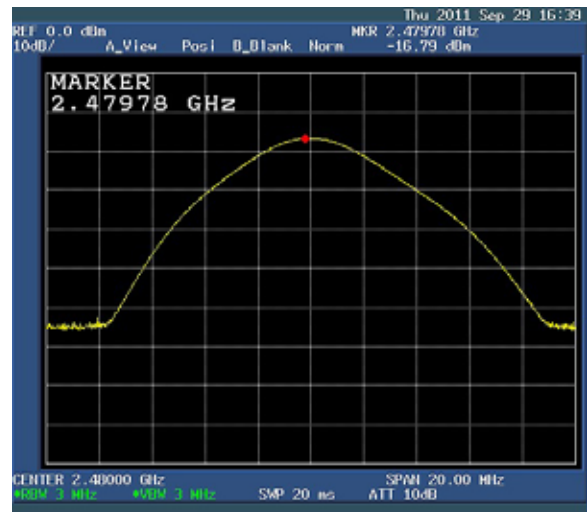
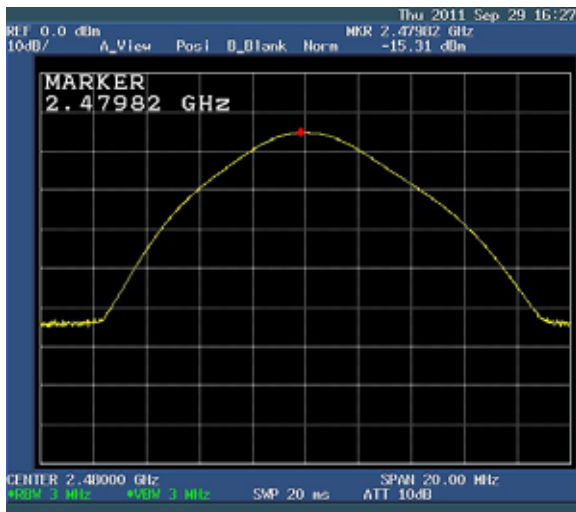




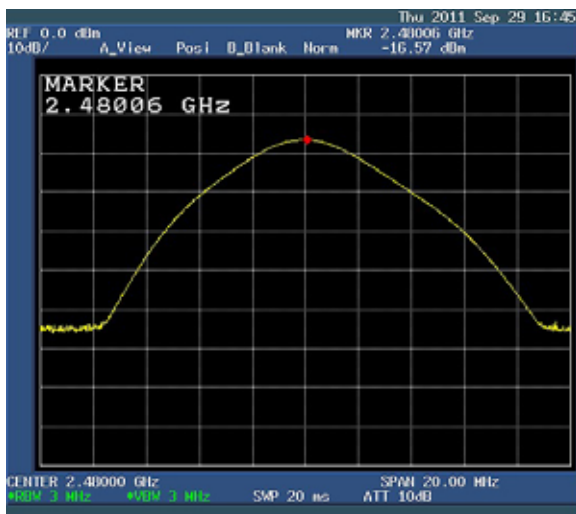
• 2480MHz

DH5

2-DH5



3-DH5



**Antenna Conducted Spurious Emissions**

Test Data

Test Equipment: Refer to Table 4-6.

Operation mode: A, B, C

Modulation Type : 1, 2

Test Condition of Instrument

Date : October 12, 2011

Temp. : 22 deg.C

Humid. : 67 %

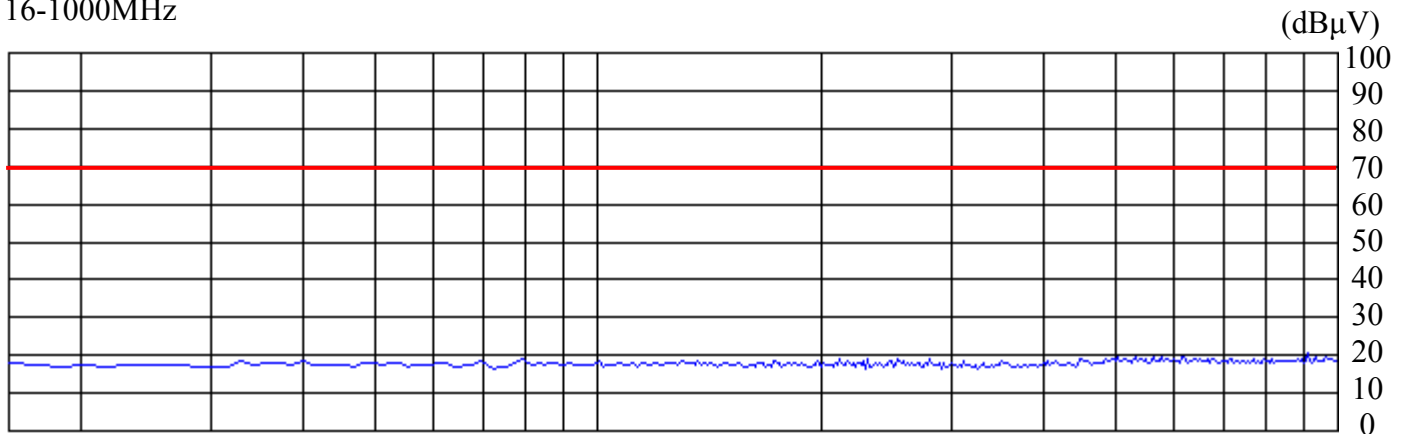
EUT Warm-up Time: 30 minutes

• Operation mode: A

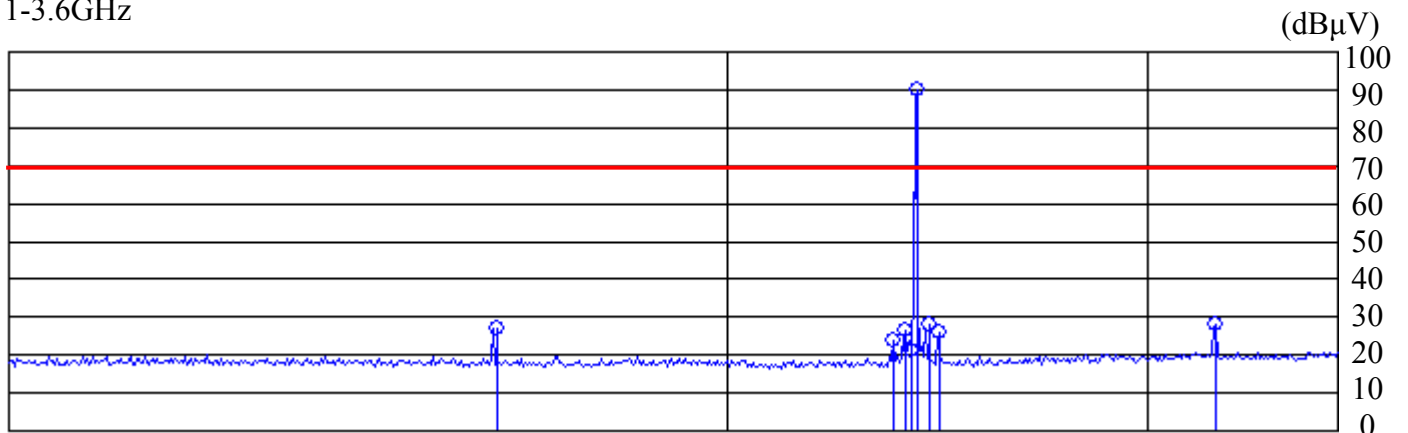
Modulation Type: DH5

Frequency [MHz]	Meter Reading (PEAK)[dBuV]	Factor [dB]	Level(PEAK) [dBuV]	Limit(PEAK) [dBuV]
2402.07	90.9	21.22	112.12	92.12

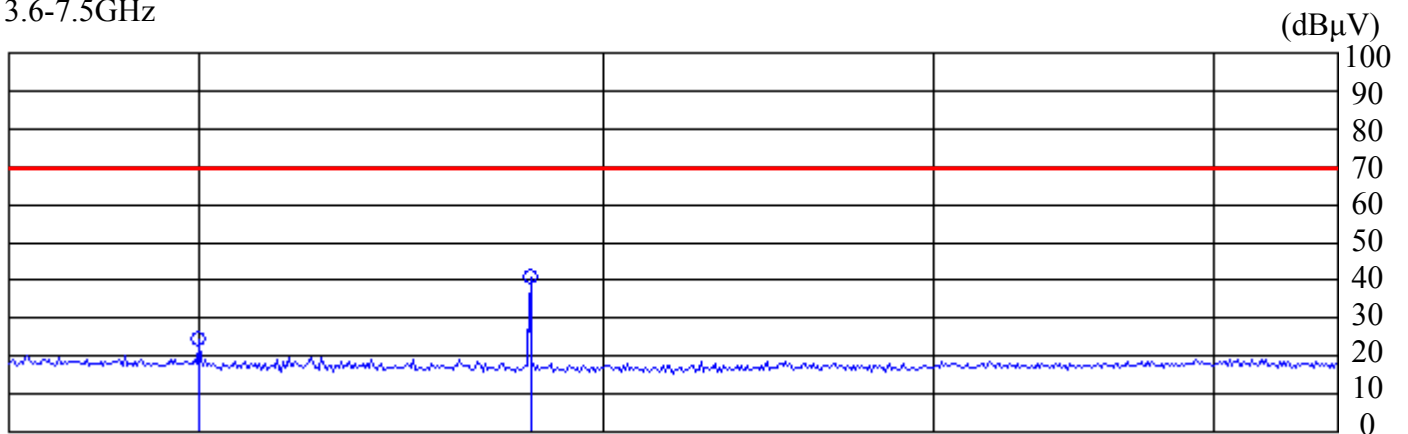
16-1000MHz



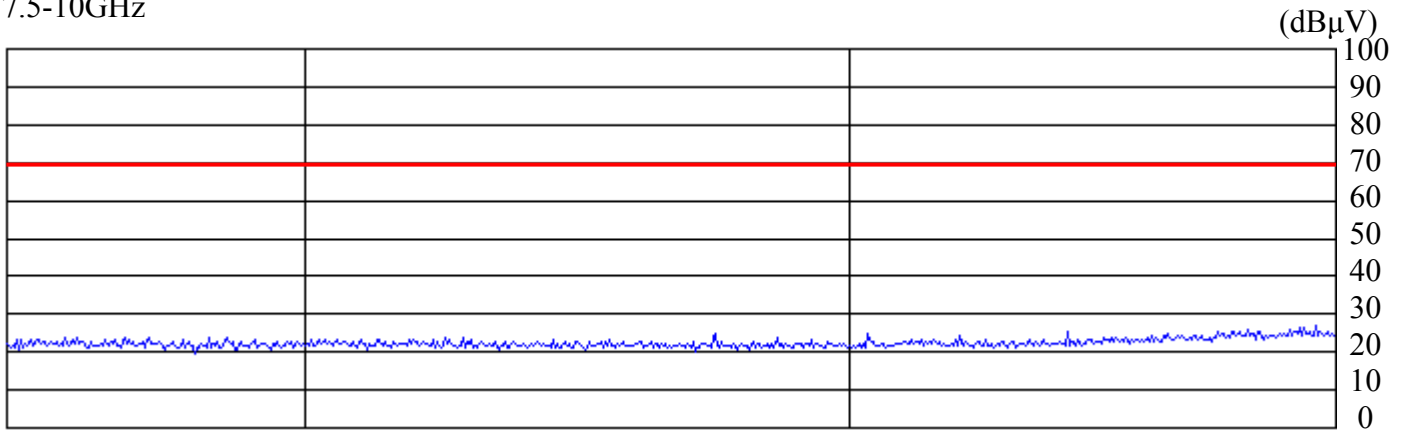
1-3.6GHz



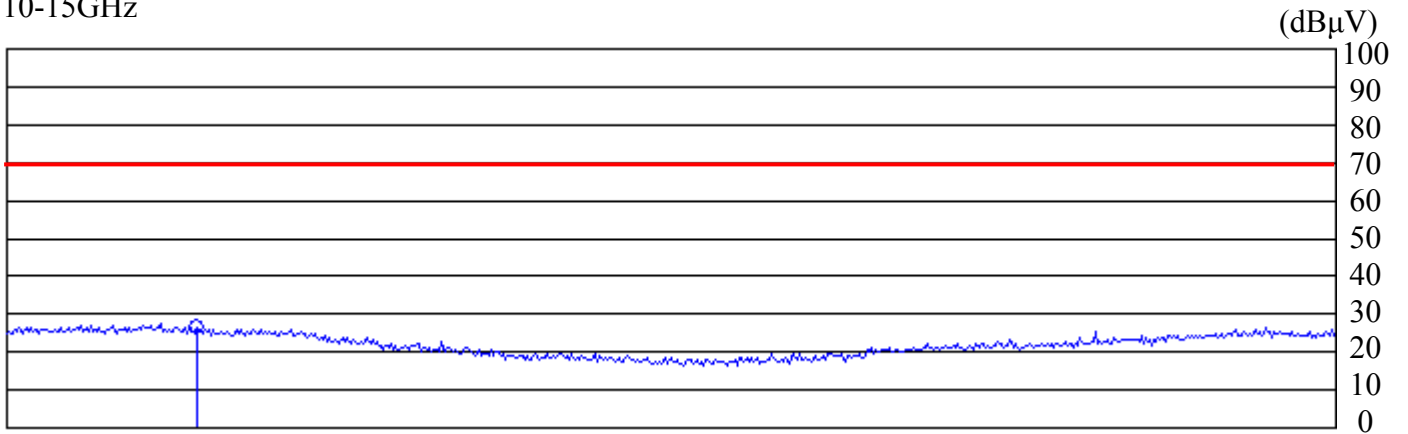
3.6-7.5GHz



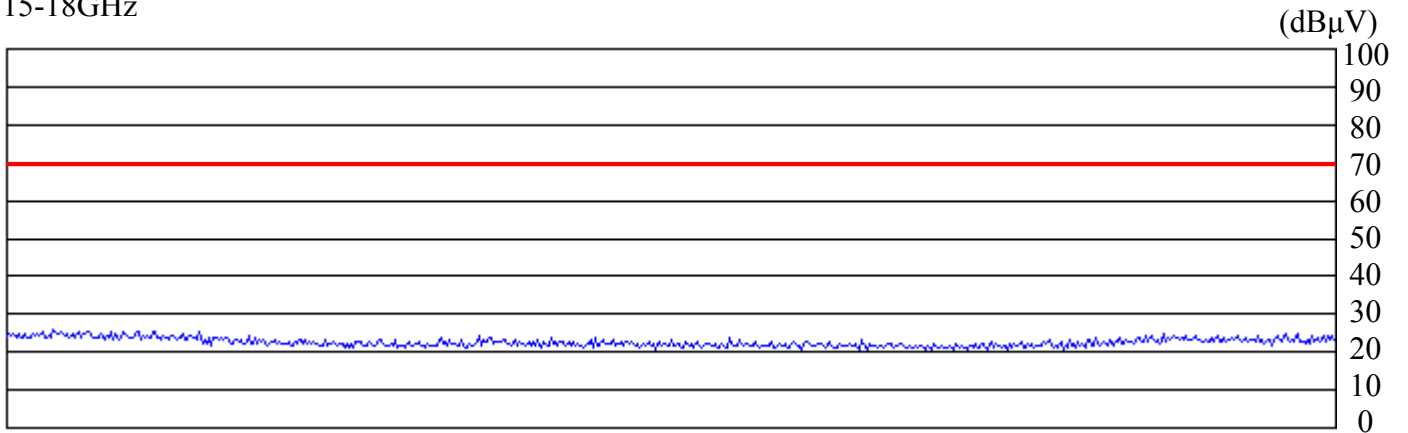
7.5-10GHz

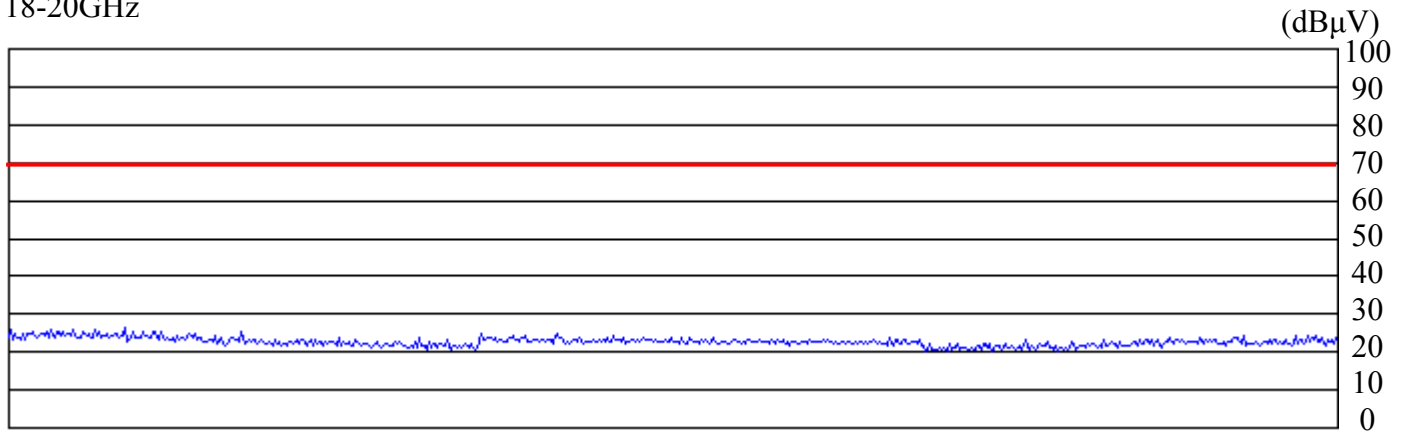


10-15GHz

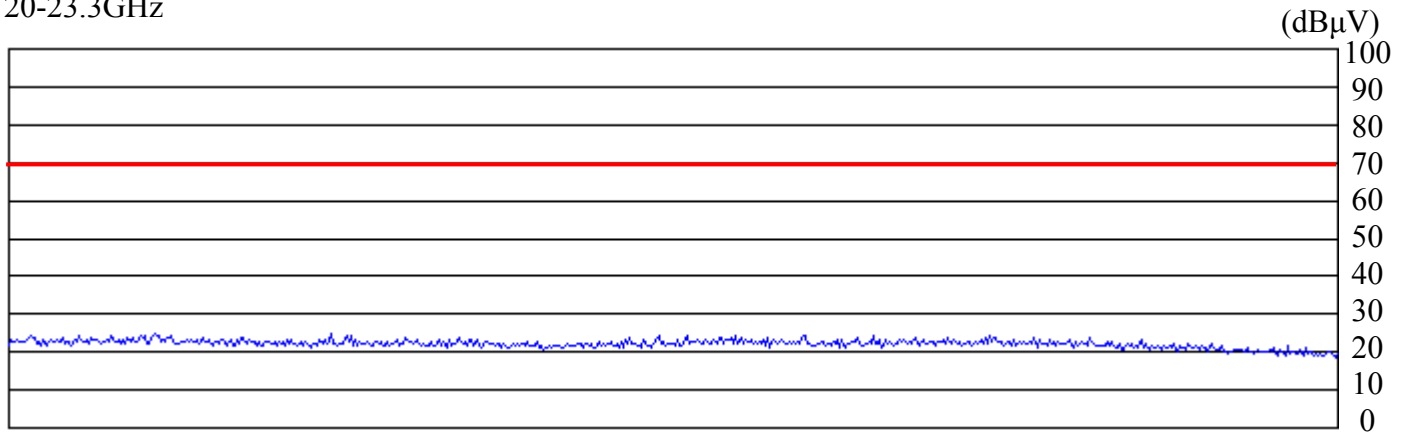


15-18GHz

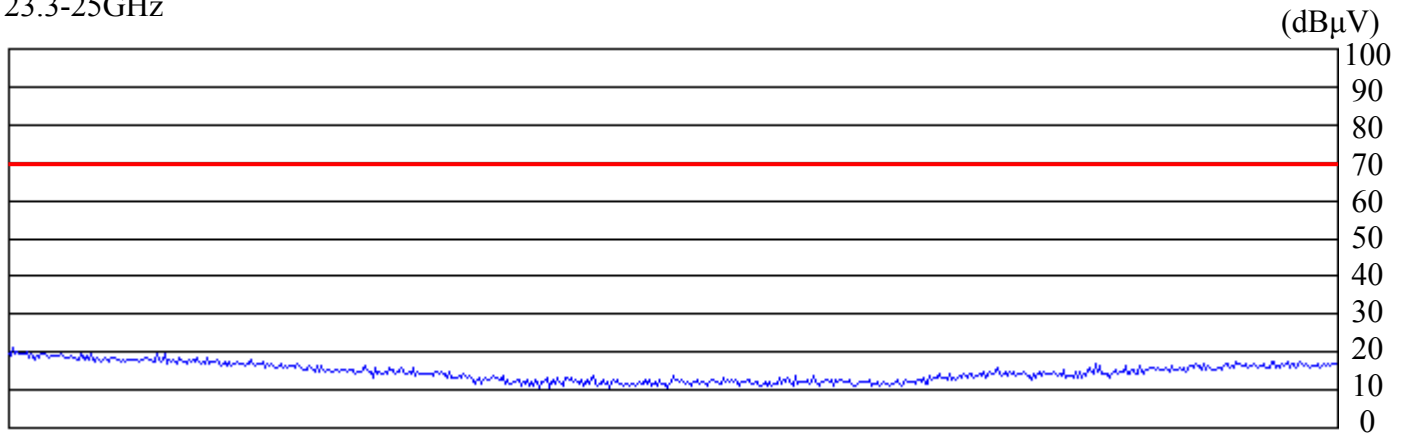




20-23.3GHz



23.3-25GHz



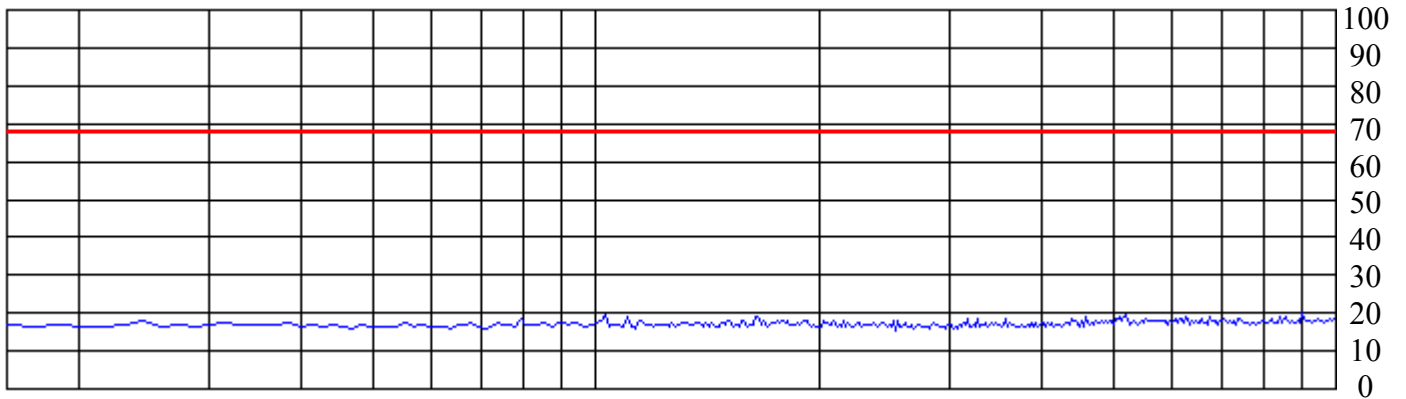
• Operation mode: A

Modulation Type: 3DH5

Frequency [MHz]	Meter Reading (PEAK)[dBuV]	Factor [dB]	Level(PEAK) [dBuV]	Limit(PEAK) [dBuV]
2402.26	89.5	21.22	110.72	90.72

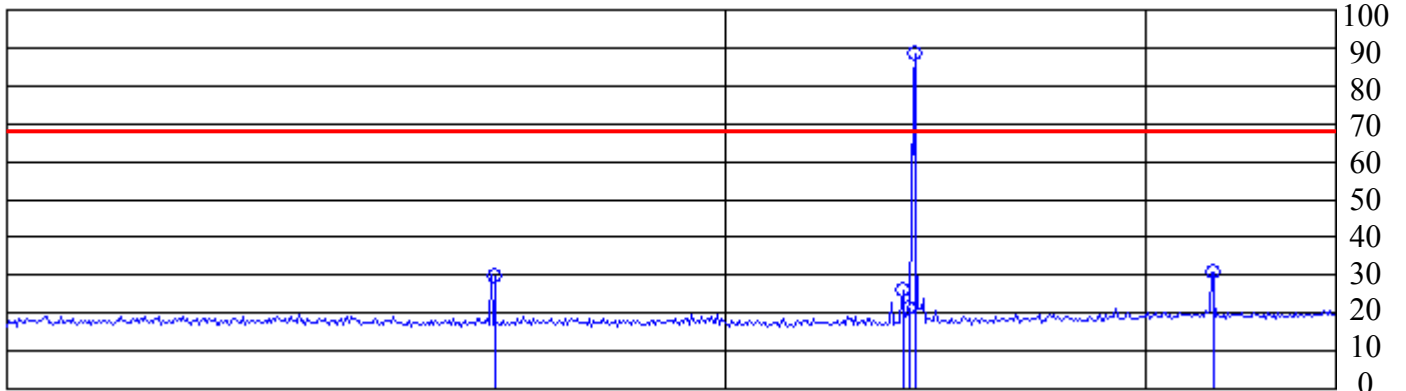
16-1000MHz

(dBμV)



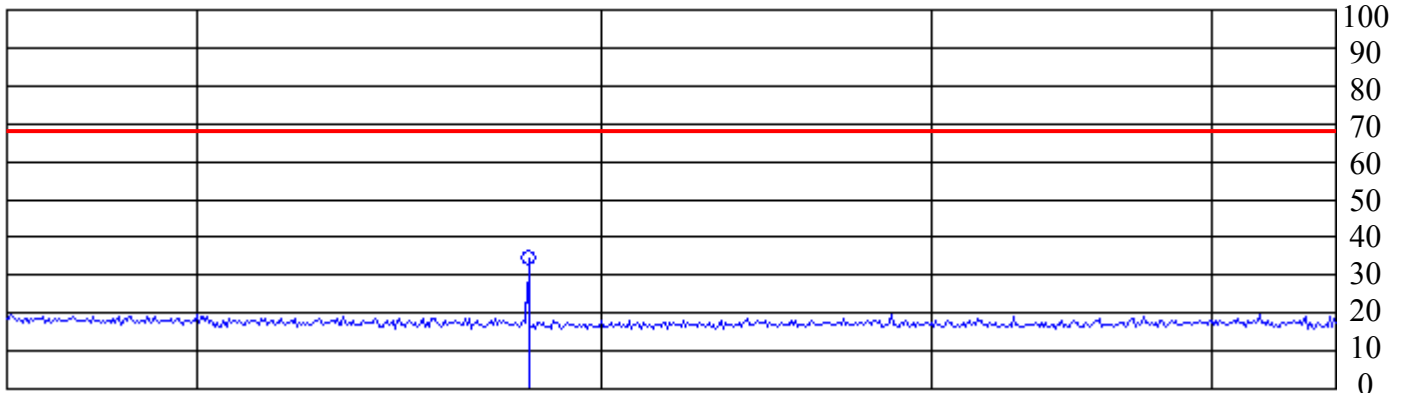
1-3.6GHz

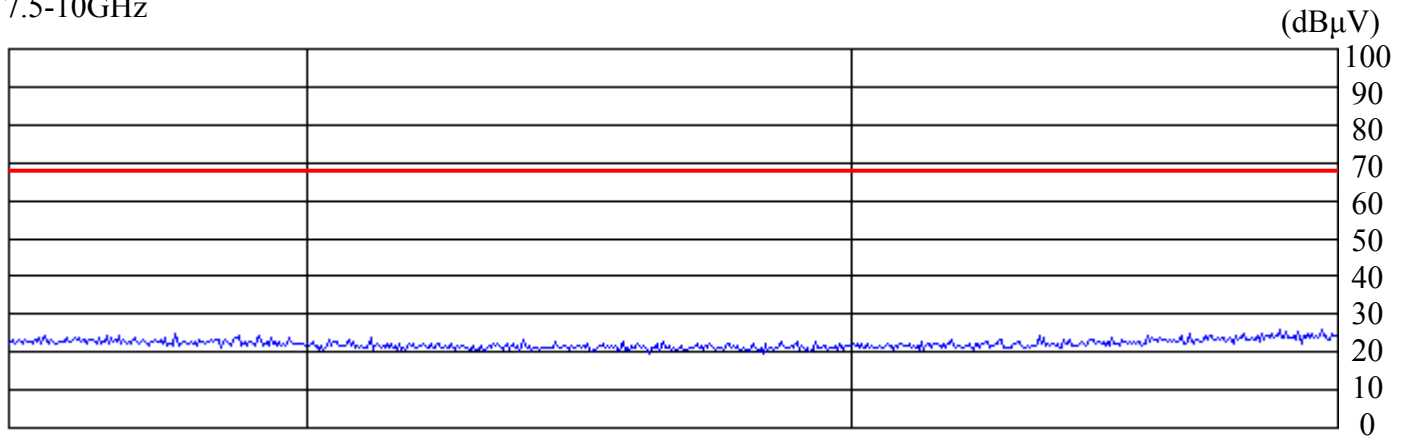
(dBμV)



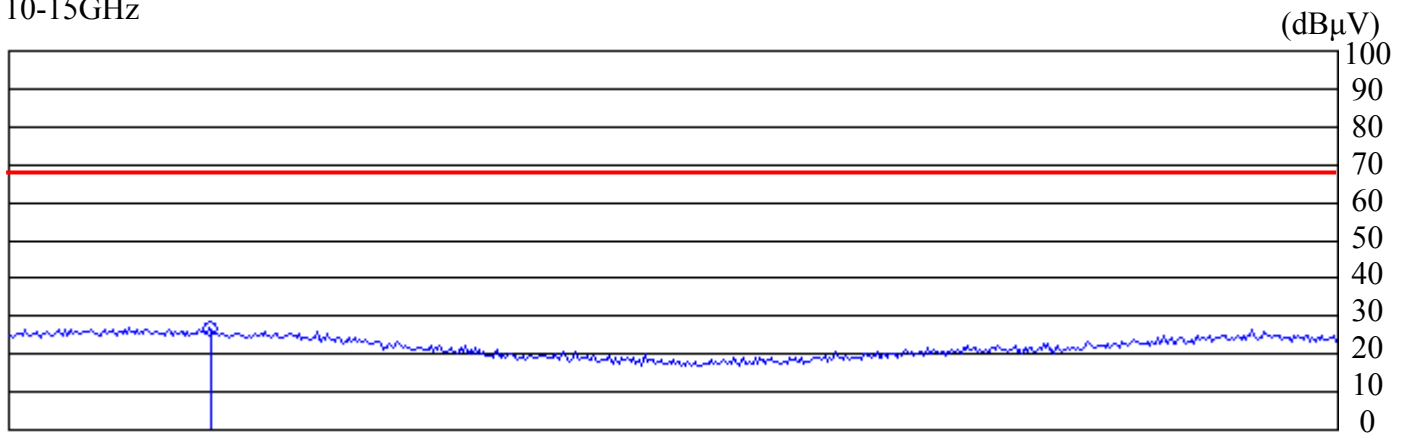
3.6-7.5GHz

(dBμV)

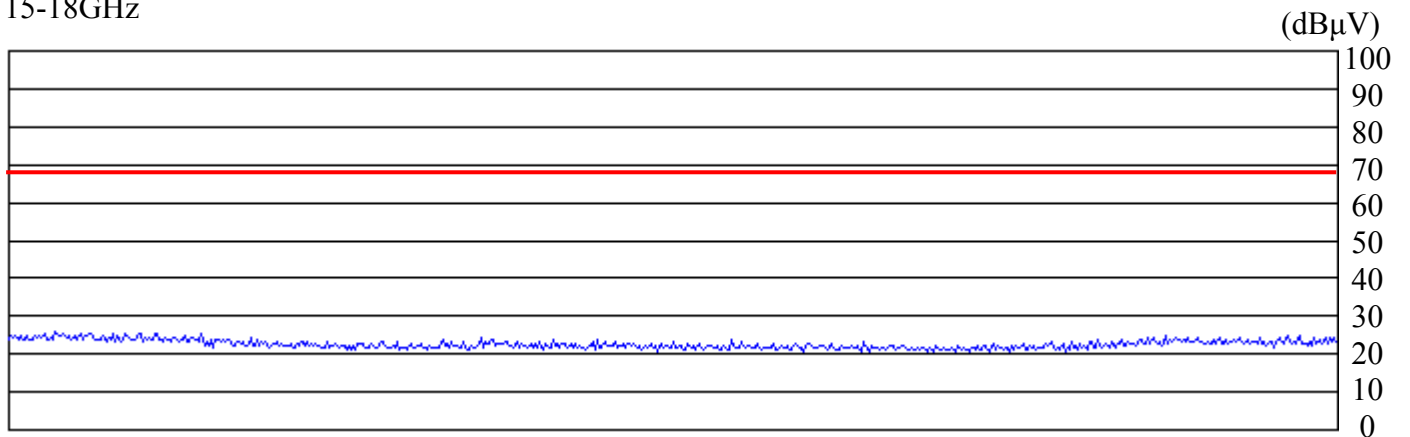




10-15GHz

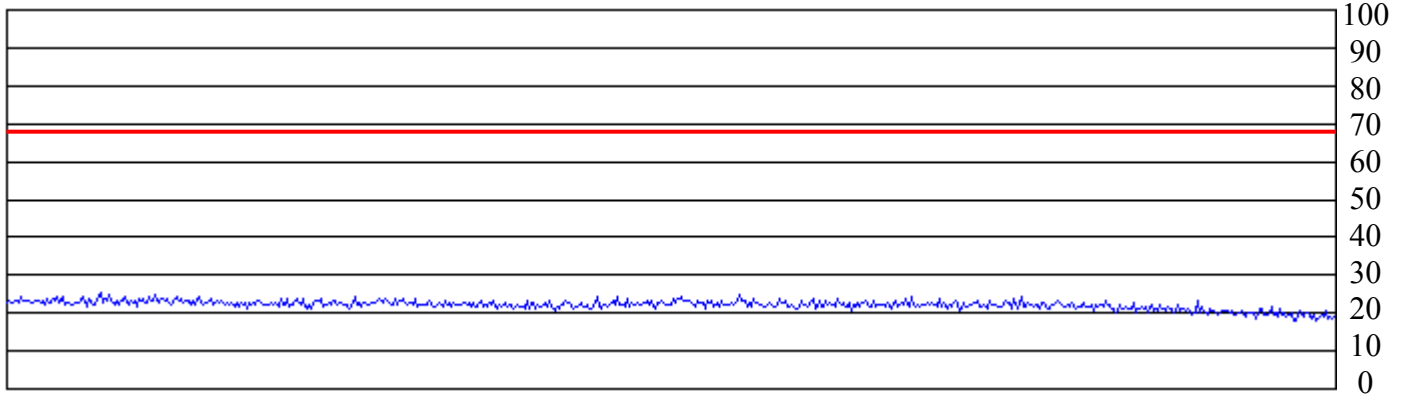


15-18GHz



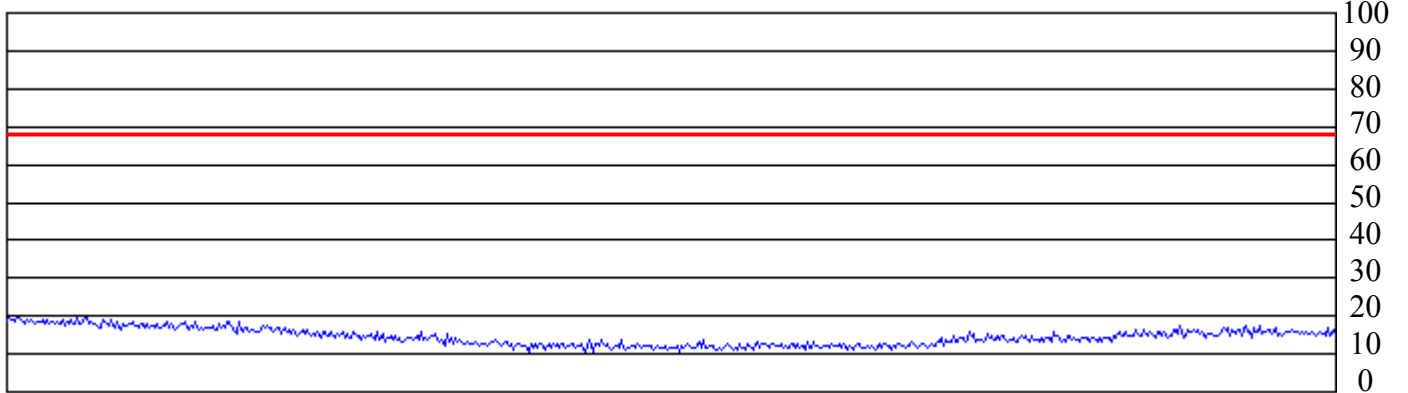
(Continued)

(dB $\mu$ V)



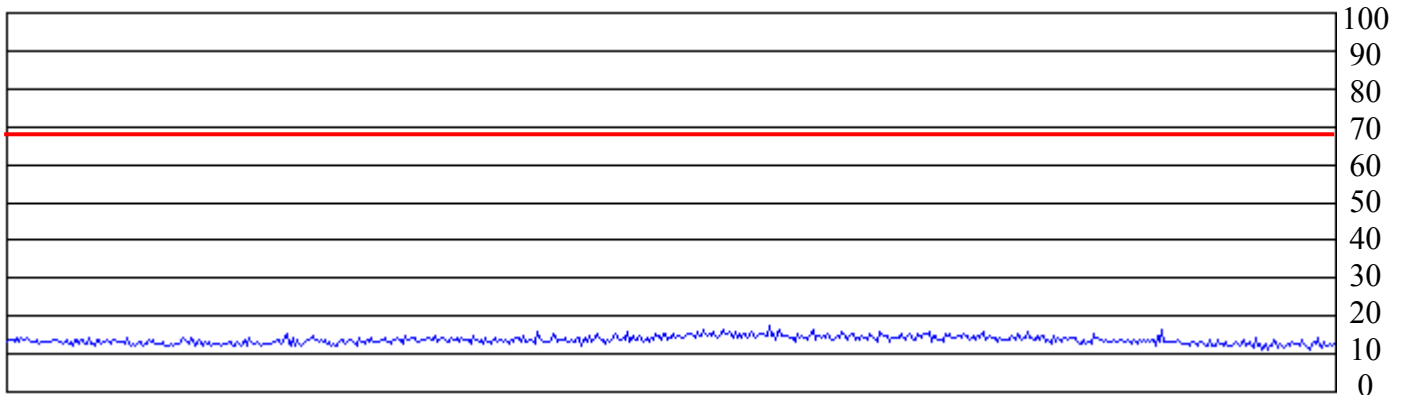
20-23.3GHz

(dB $\mu$ V)



23.3-25GHz

(dB $\mu$ V)



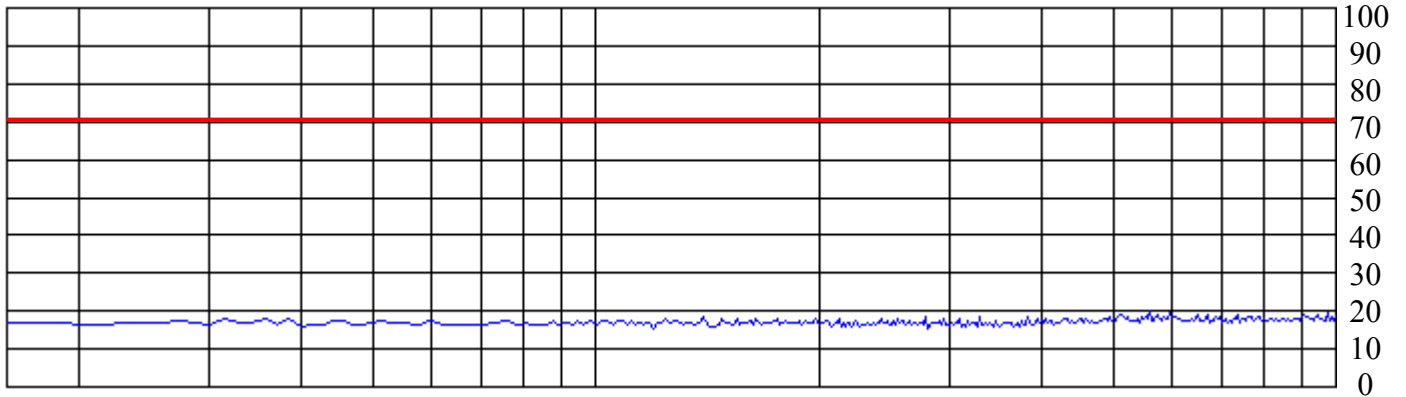
• Operation mode: B

Modulation Type: DH5

Frequency [MHz]	Meter Reading (PEAK)[dBuV]	Factor [dB]	Level(PEAK) [dBuV]	Limit(PEAK) [dBuV]
2441.26	91.6	21.23	112.83	92.83

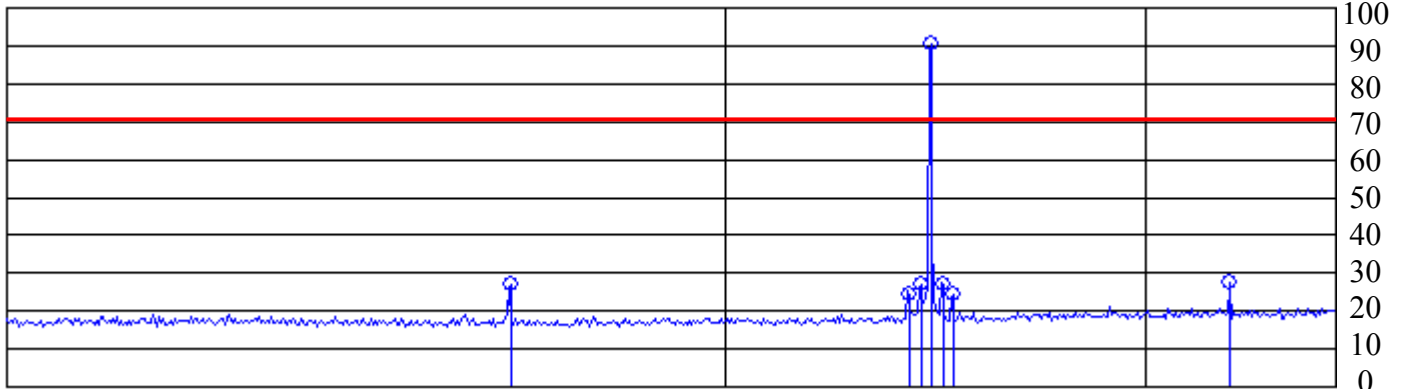
16-1000MHz

(dBμV)



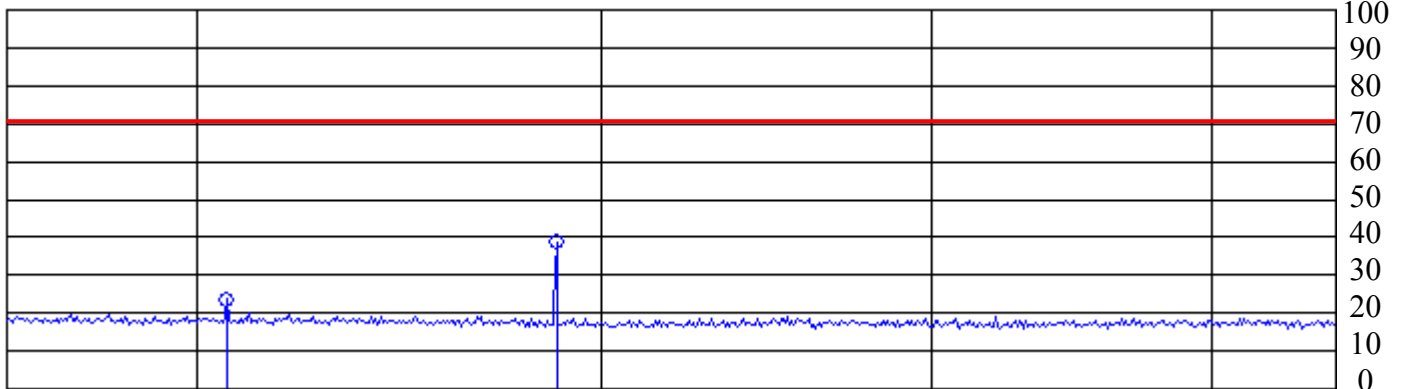
1-3.6GHz

(dBμV)



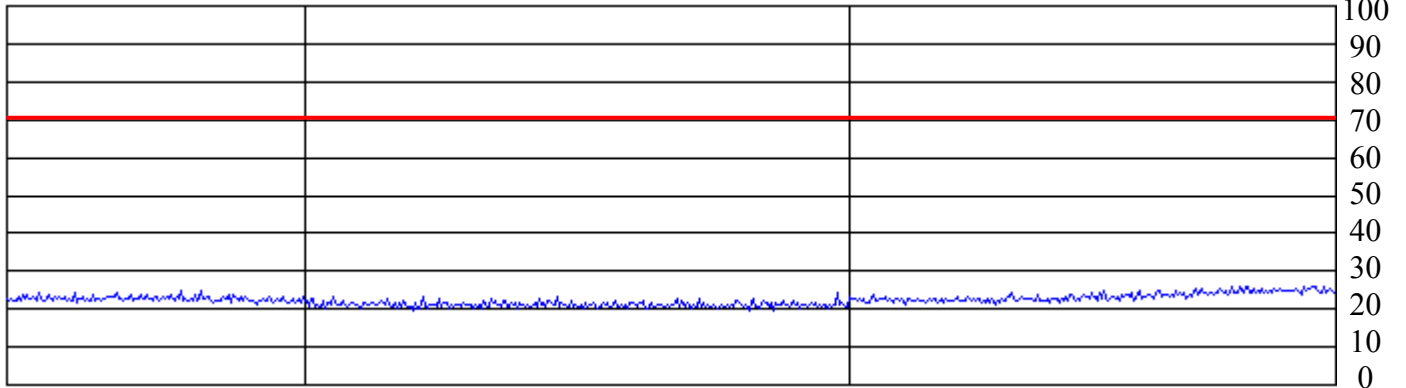
3.6-7.5GHz

(dBμV)



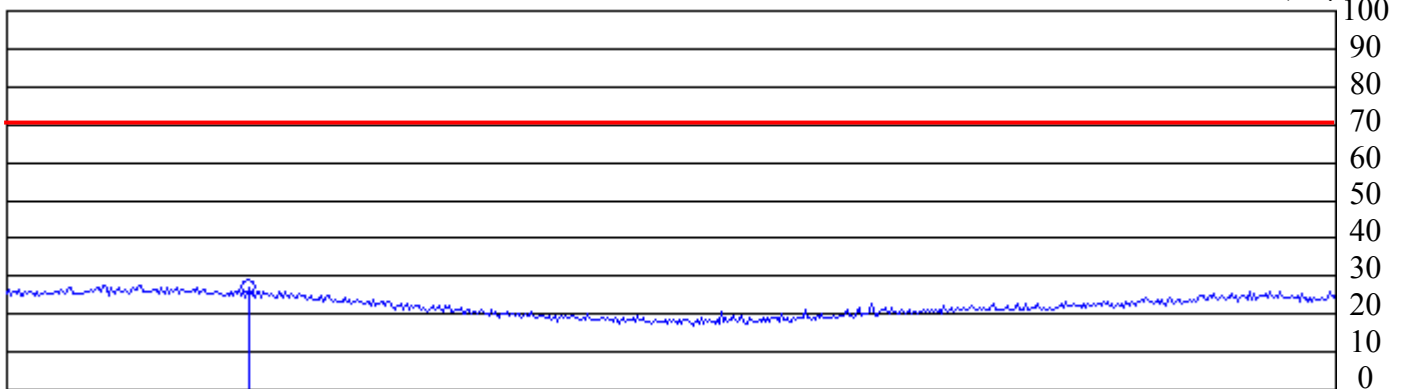
7.5-10GHz

(dBμV)



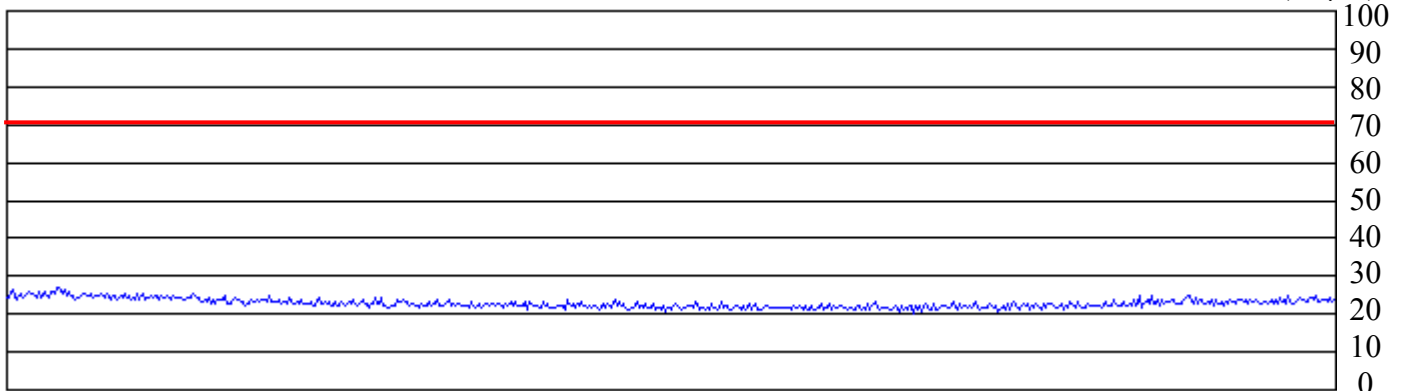
10-15GHz

(dBμV)

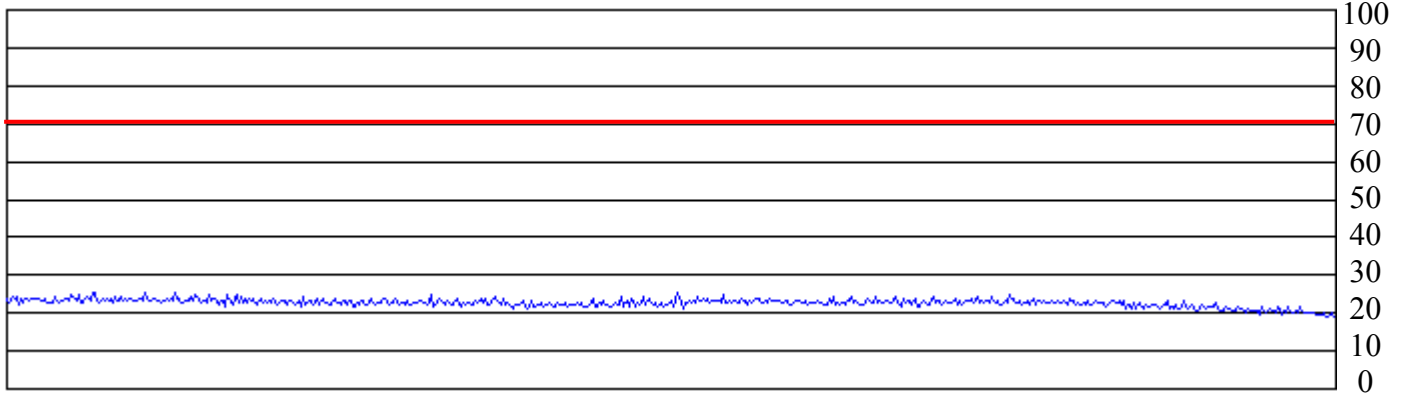


15-18GHz

(dBμV)

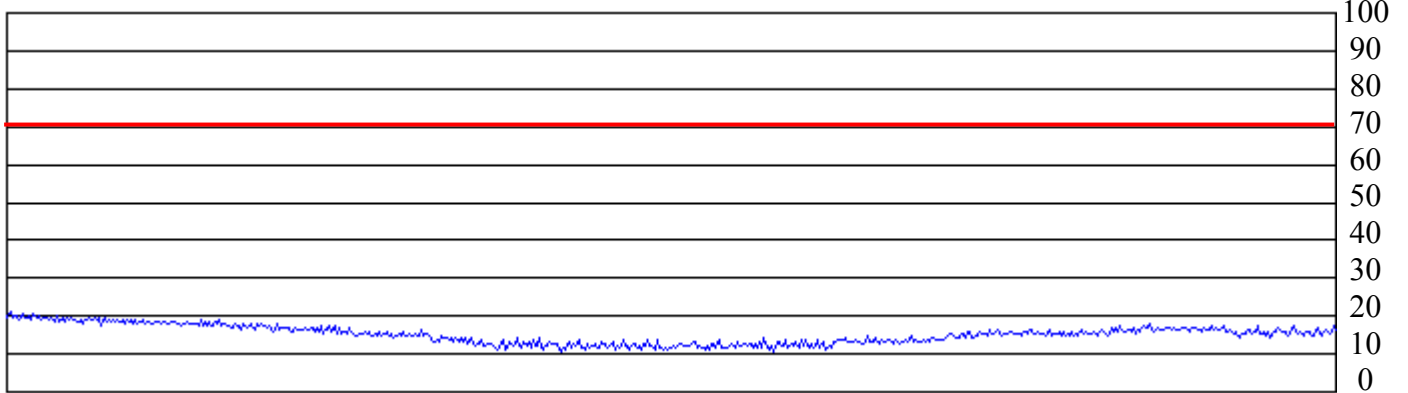


(dB $\mu$ V)



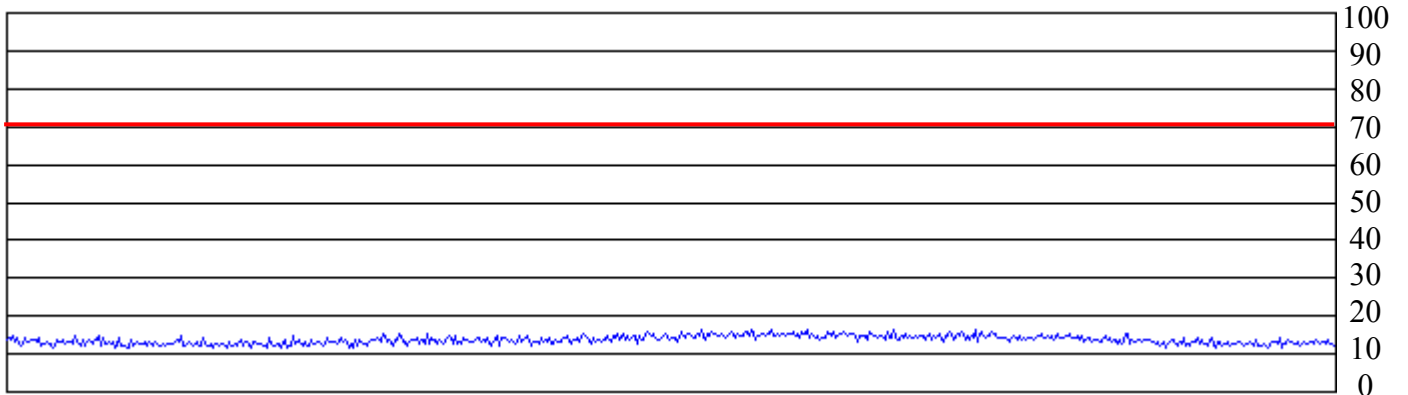
20-23.3GHz

(dB $\mu$ V)



23.3-25GHz

(dB $\mu$ V)



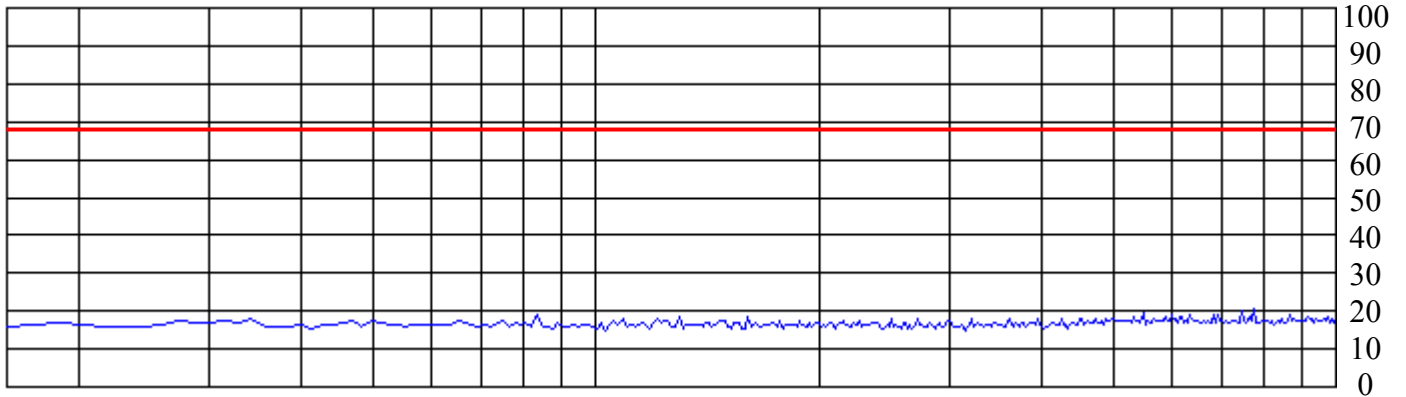
• Operation mode: B

Modulation Type: 3DH5

Frequency [MHz]	Meter Reading (PEAK)[dBuV]	Factor [dB]	Level(PEAK) [dBuV]	Limit(PEAK) [dBuV]
2441.24	89.6	21.23	110.83	90.83

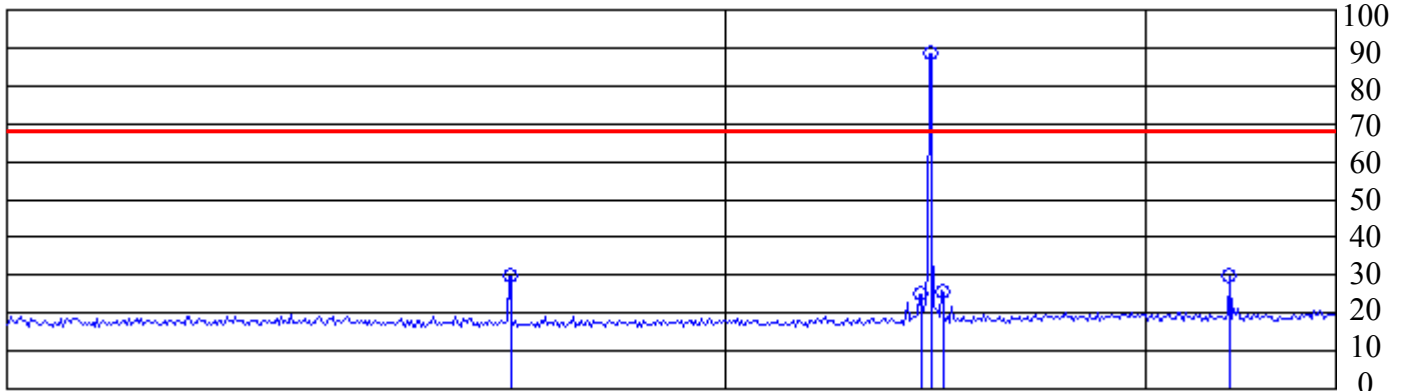
16-1000MHz

(dBμV)



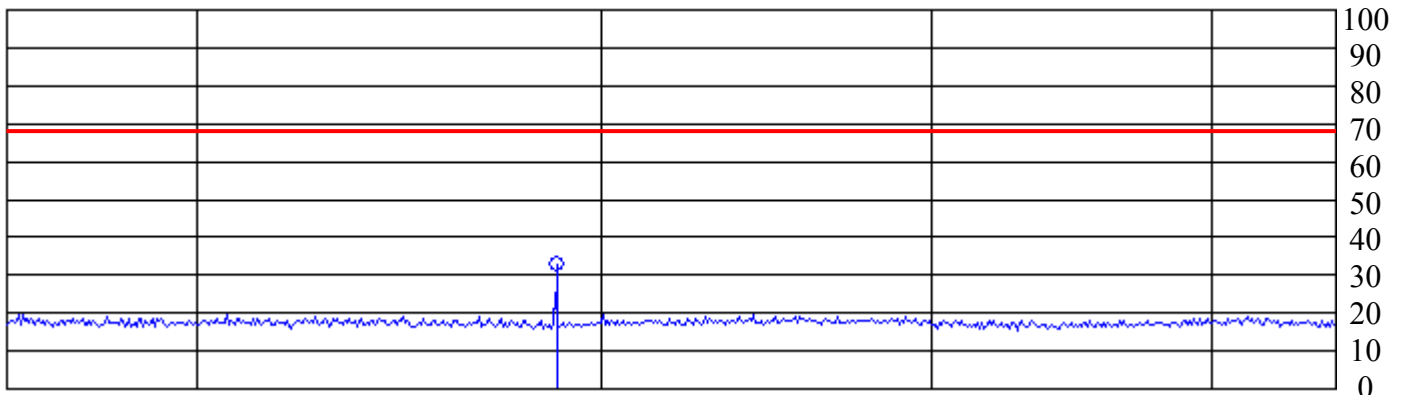
1-3.6GHz

(dBμV)

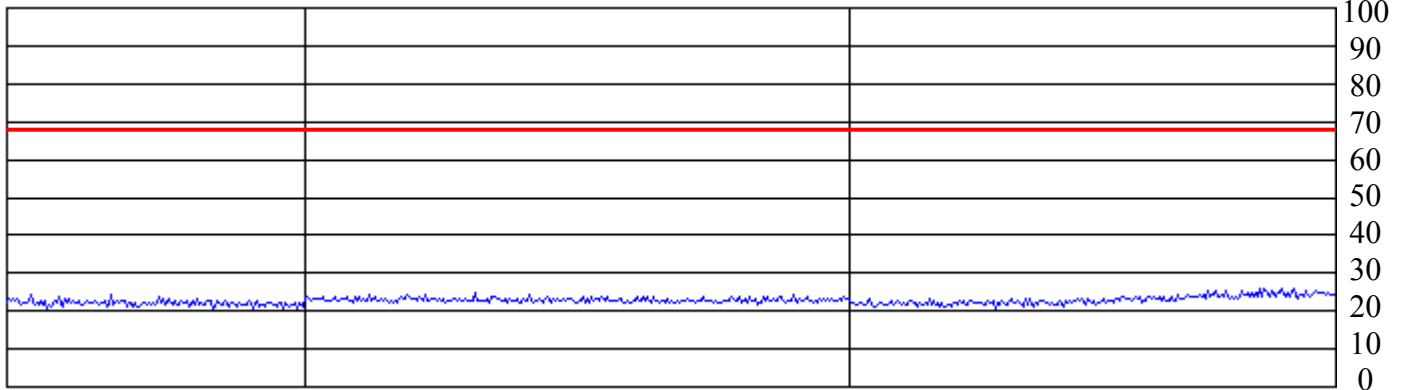


3.6-7.5GHz

(dBμV)

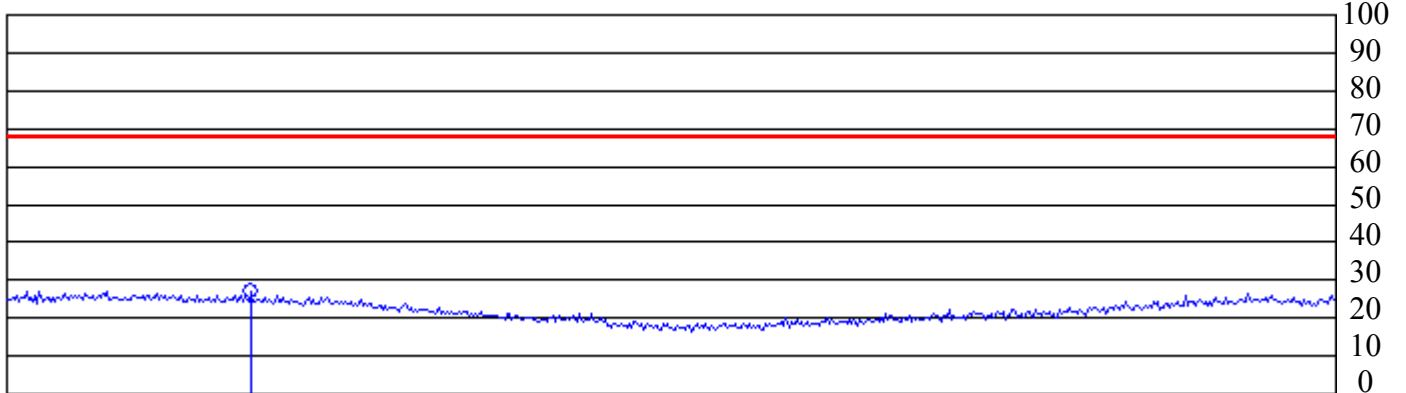


(dB $\mu$ V)



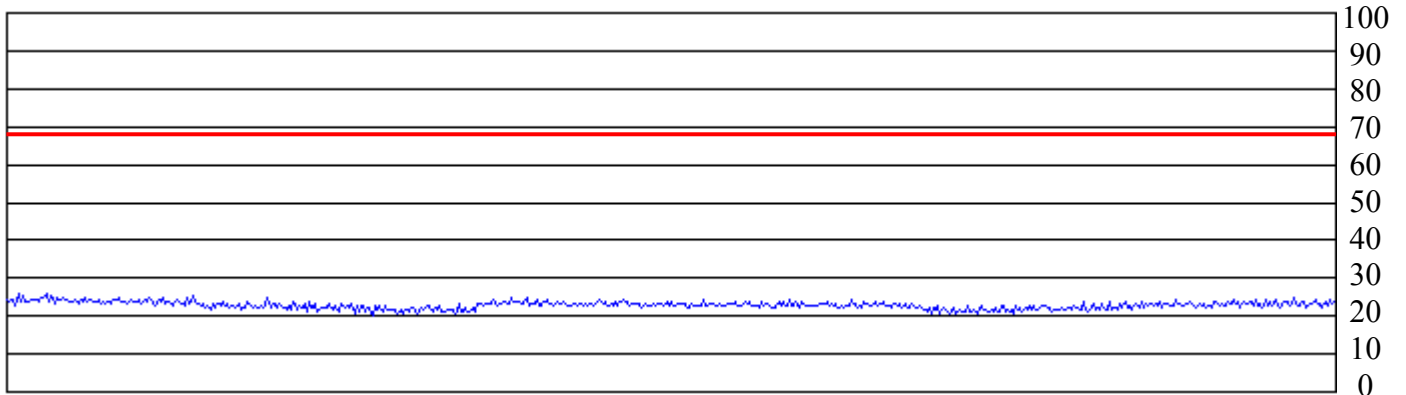
10-15GHz

(dB $\mu$ V)

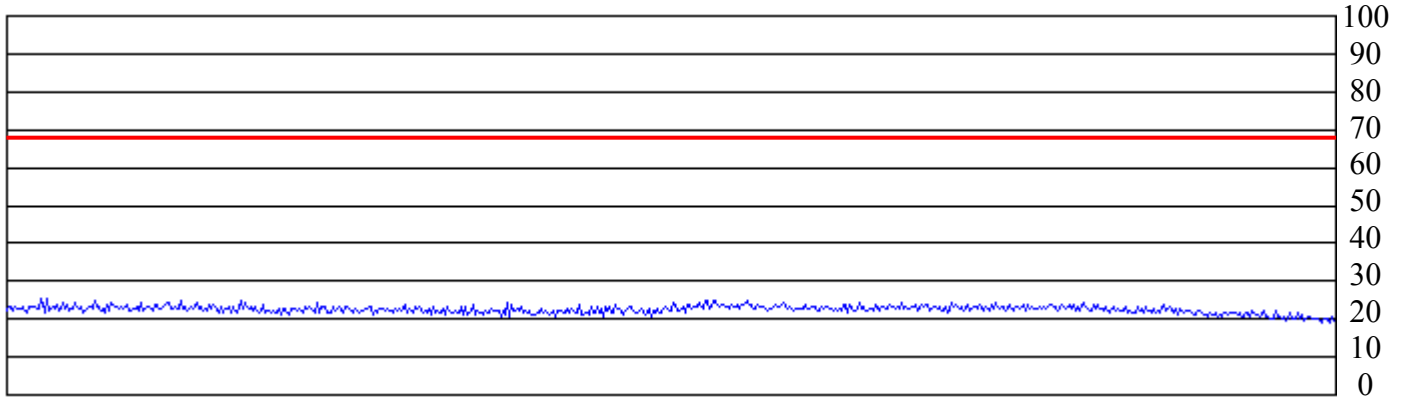


15-18GHz

(dB $\mu$ V)

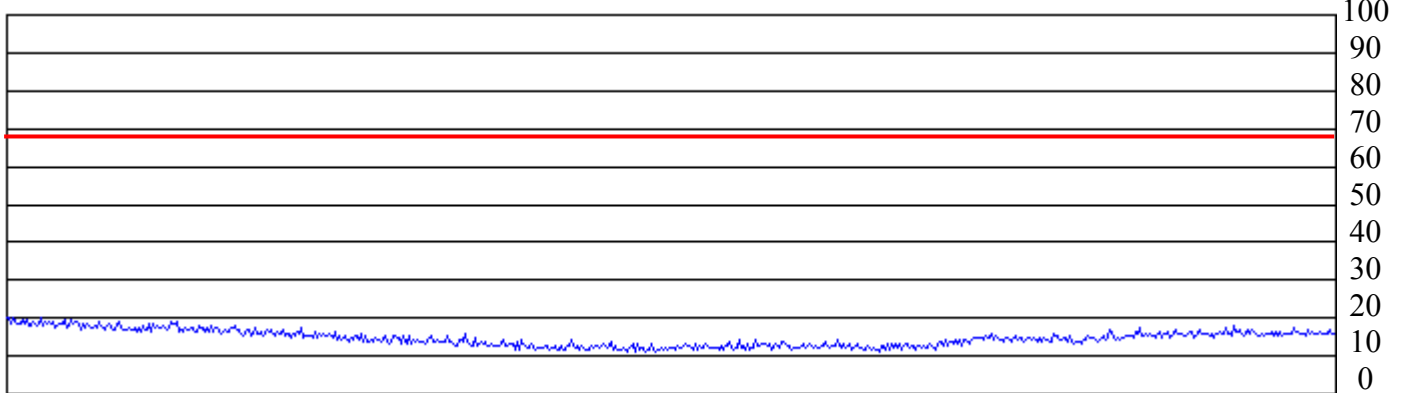


(dB $\mu$ V)



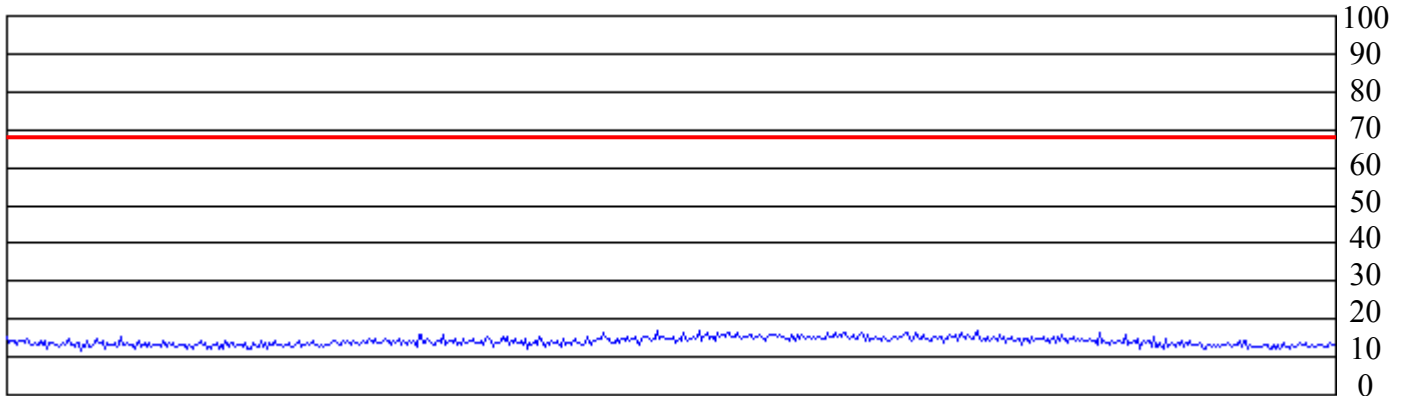
20-23.3GHz

(dB $\mu$ V)



23.3-25GHz

(dB $\mu$ V)



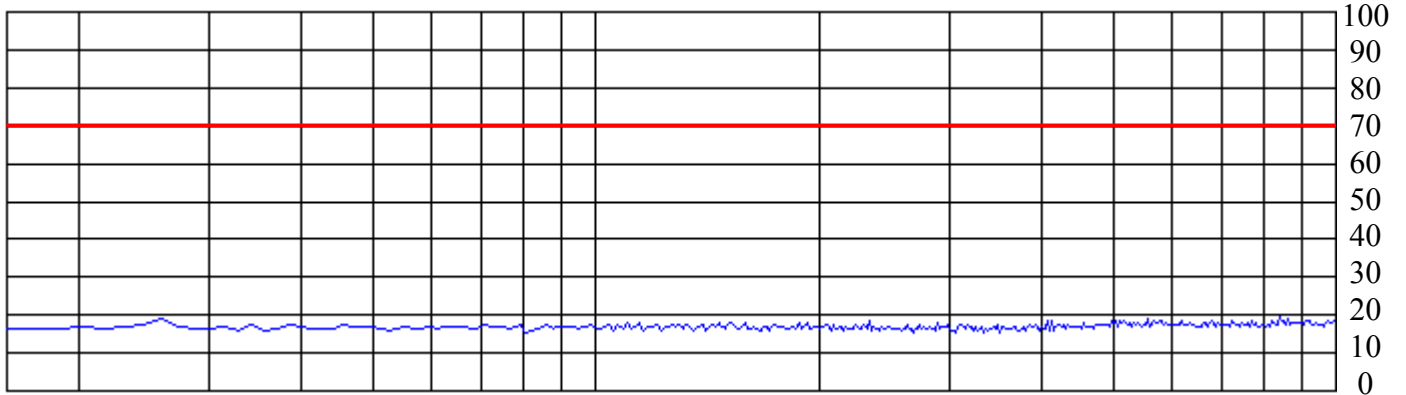
• Operation mode: C

Modulation Type: DH5

Frequency [MHz]	Meter Reading (PEAK)[dBuV]	Factor [dB]	Level(PEAK) [dBuV]	Limit(PEAK) [dBuV]
2480.05	90.3	21.23	111.53	91.53

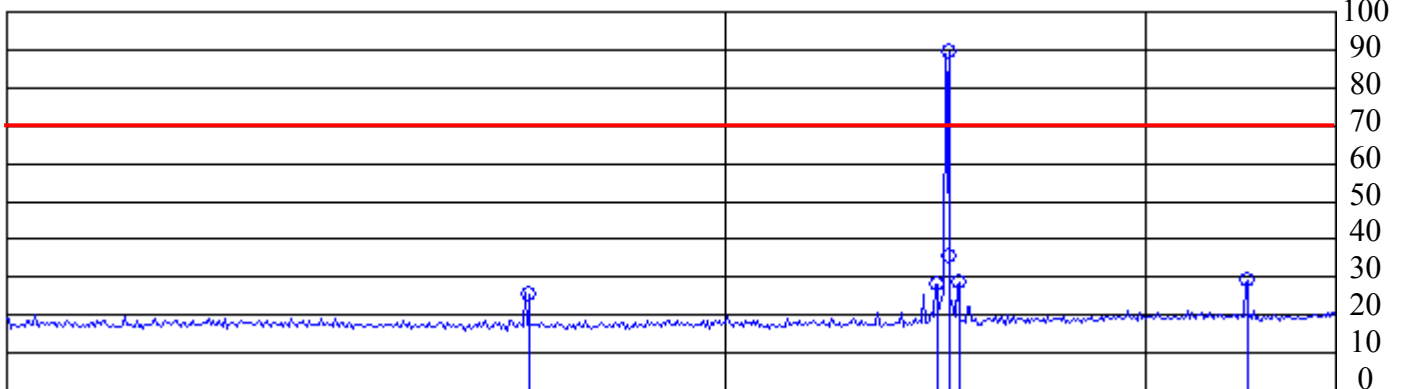
16-1000MHz

(dBμV)



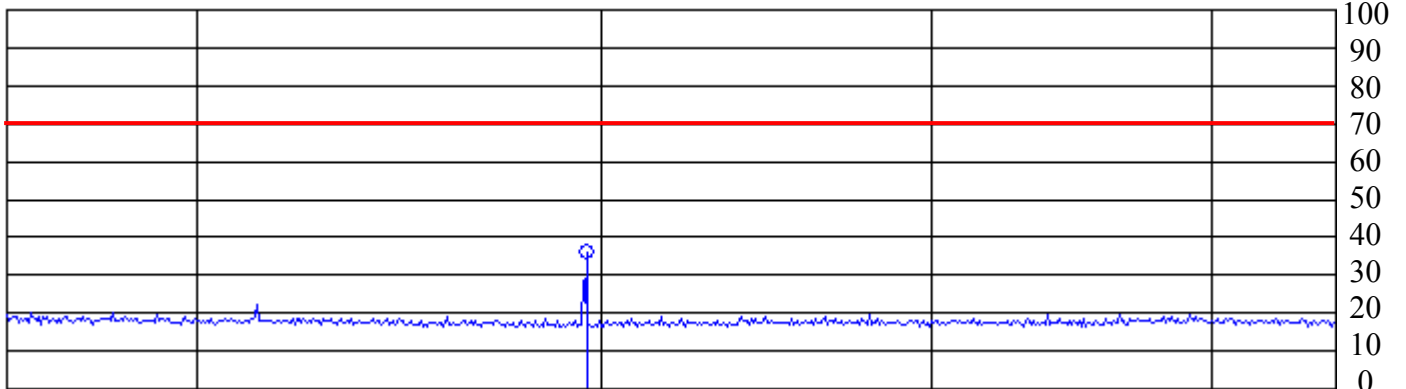
1-3.6GHz

(dBμV)



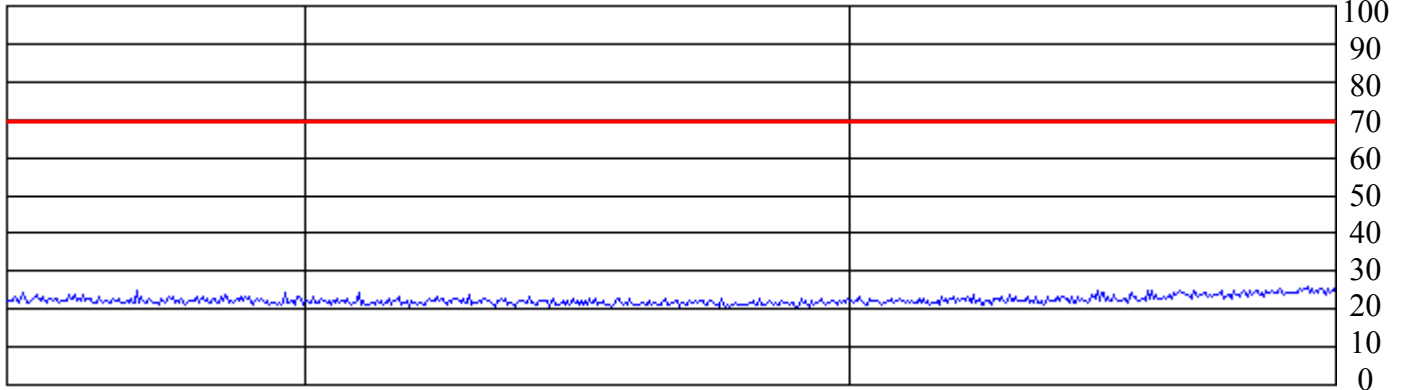
3.6-7.5GHz

(dBμV)



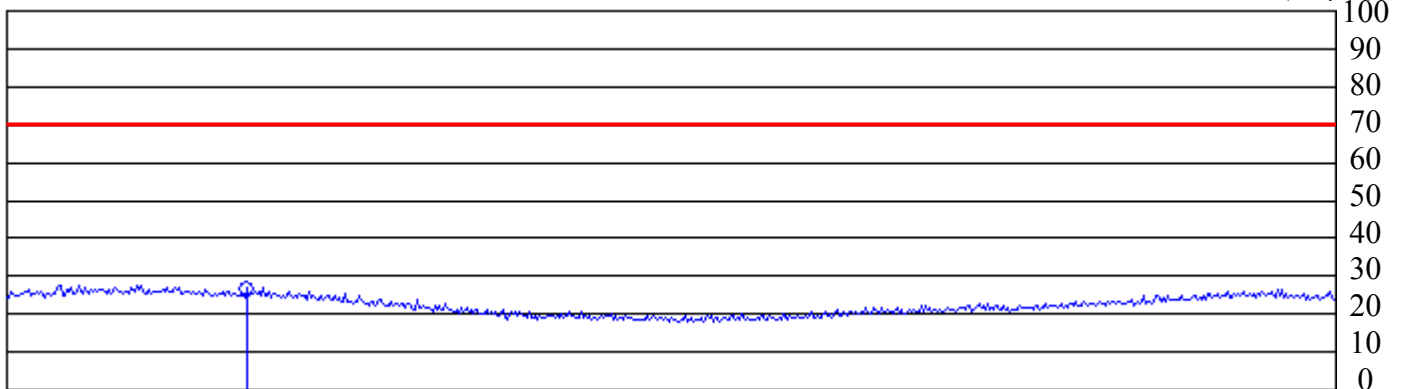
7.5-10GHz

(dB $\mu$ V)



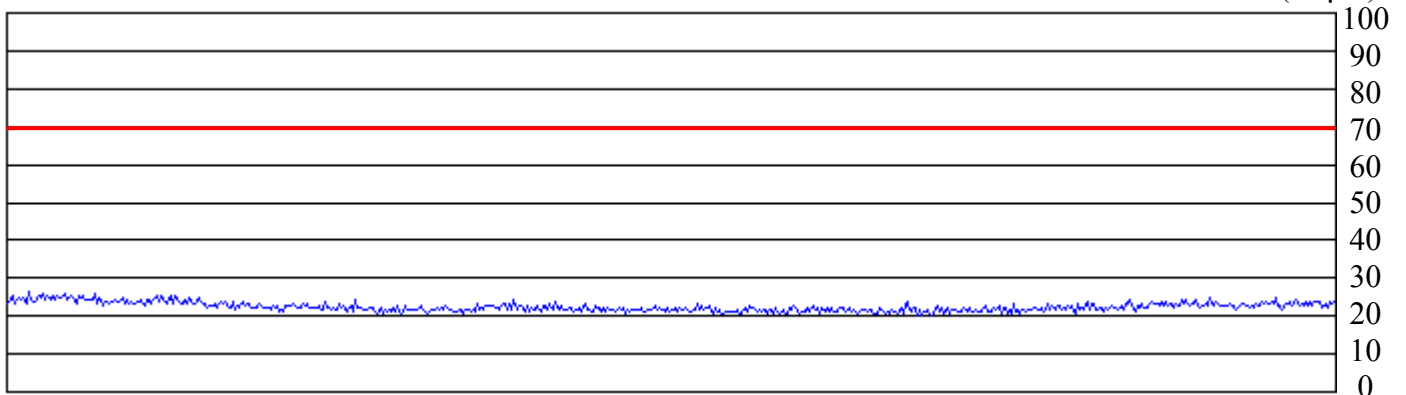
10-15GHz

(dB $\mu$ V)

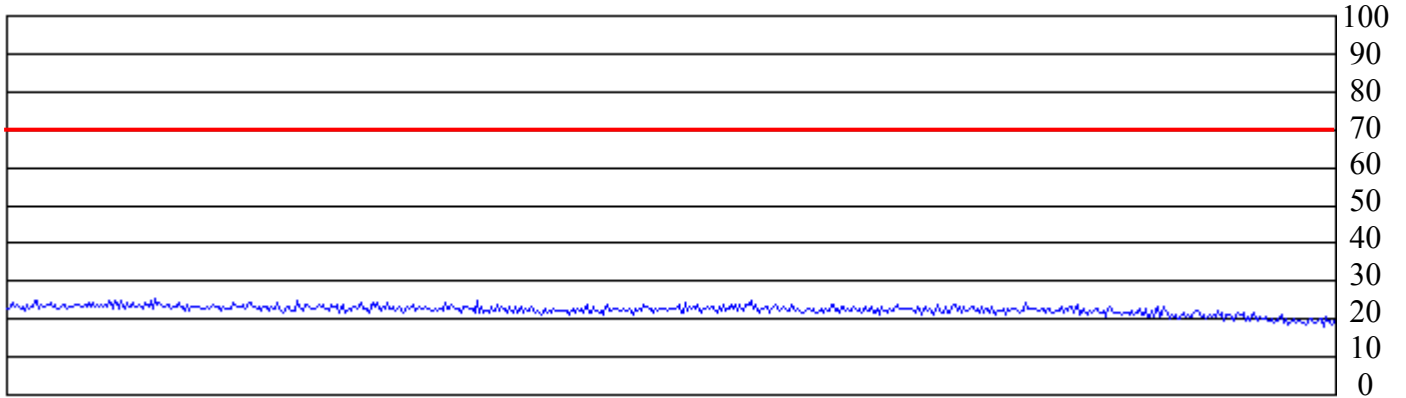


15-18GHz

(dB $\mu$ V)

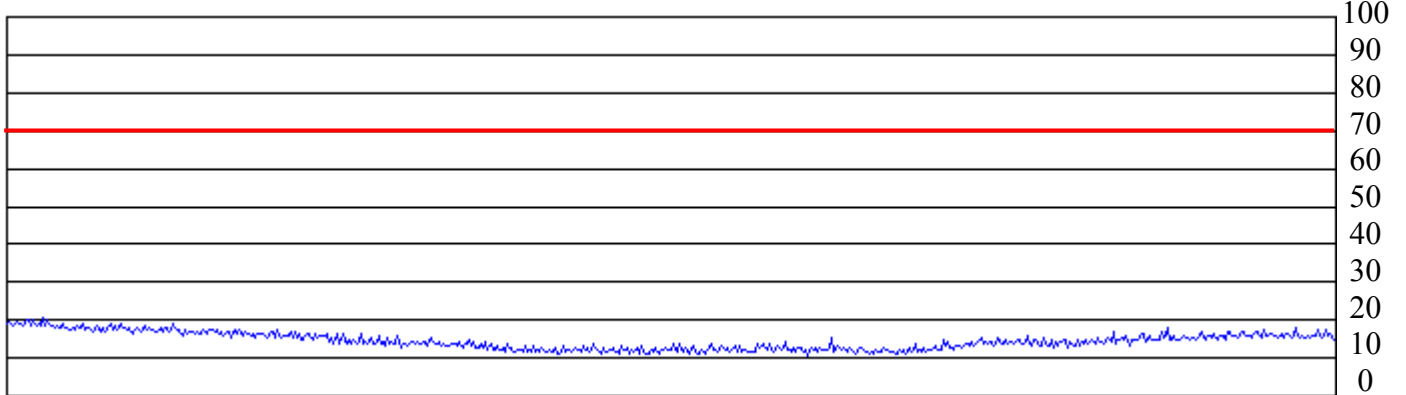


(dB $\mu$ V)



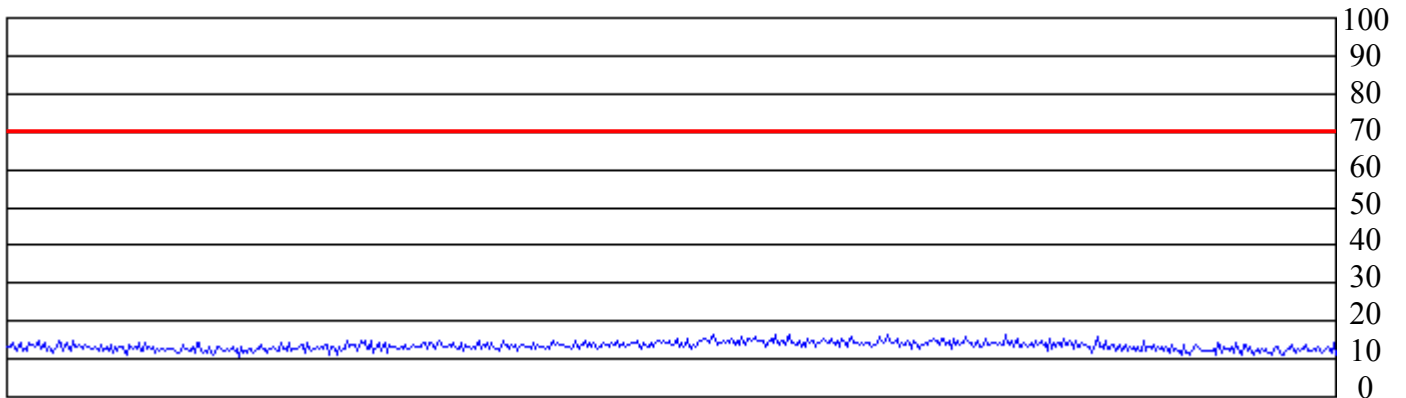
20-23.3GHz

(dB $\mu$ V)



23.3-25GHz

(dB $\mu$ V)



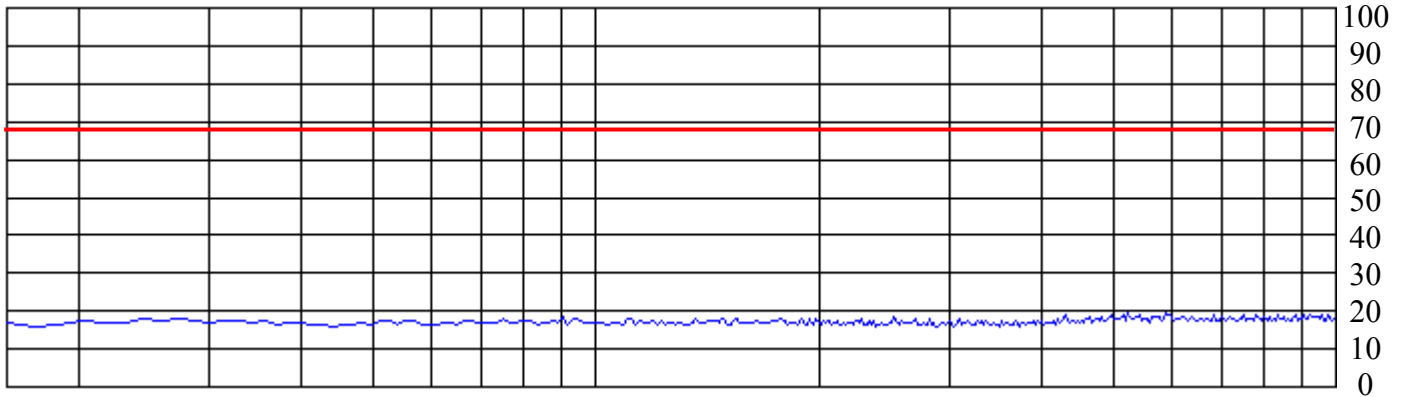
• Operation mode: C

Modulation Type: 3DH5

Frequency [MHz]	Meter Reading (PEAK)[dBuV]	Factor [dB]	Level(PEAK) [dBuV]	Limit(PEAK) [dBuV]
2480.09	88.6	21.23	109.83	89.83

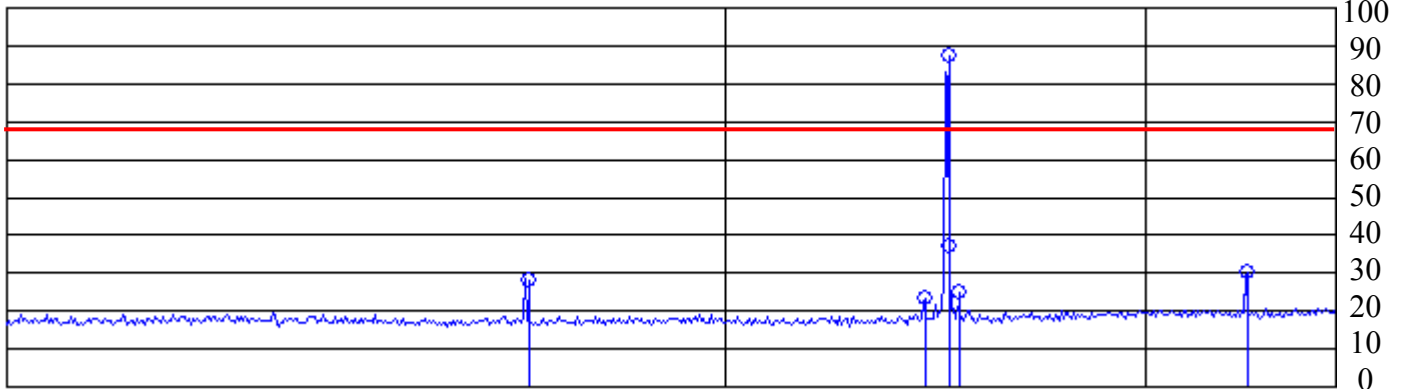
16-1000MHz

(dBμV)



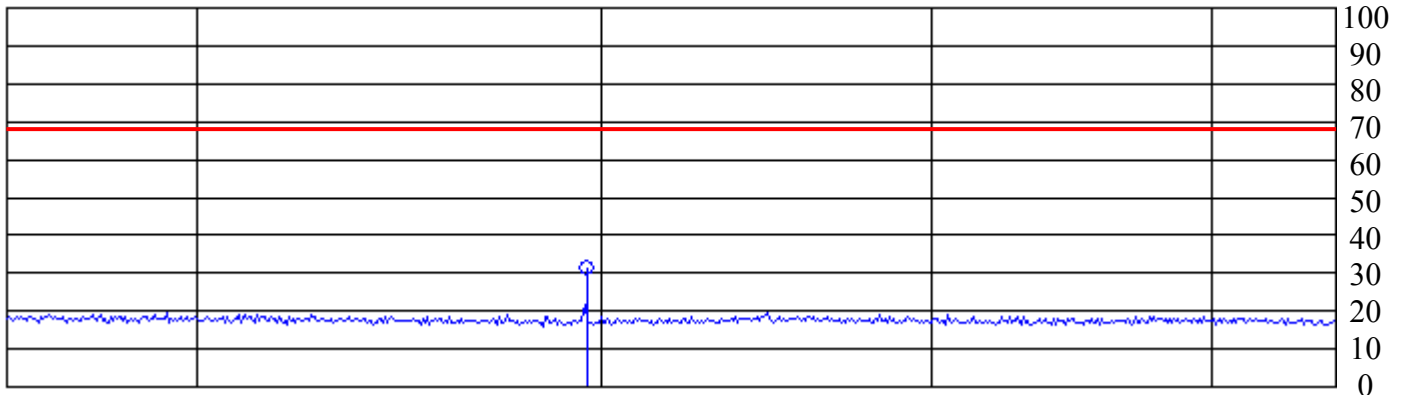
1-3.6GHz

(dBμV)



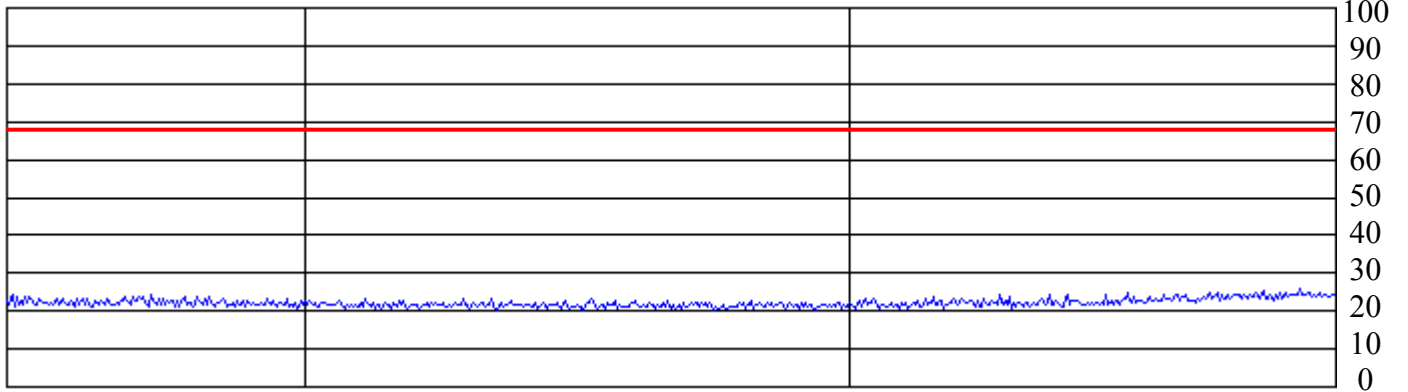
3.6-7.5GHz

(dBμV)



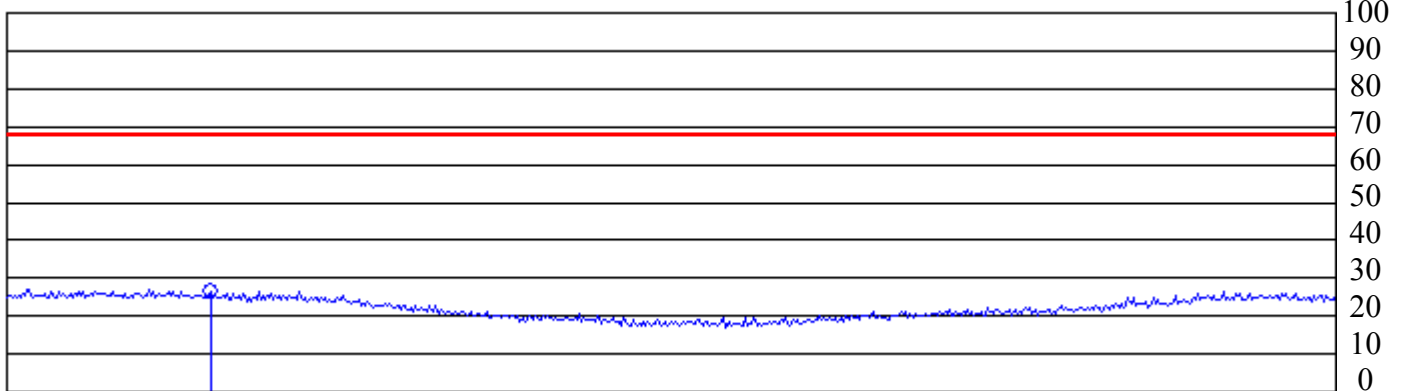
7.5-10GHz

(dBμV)



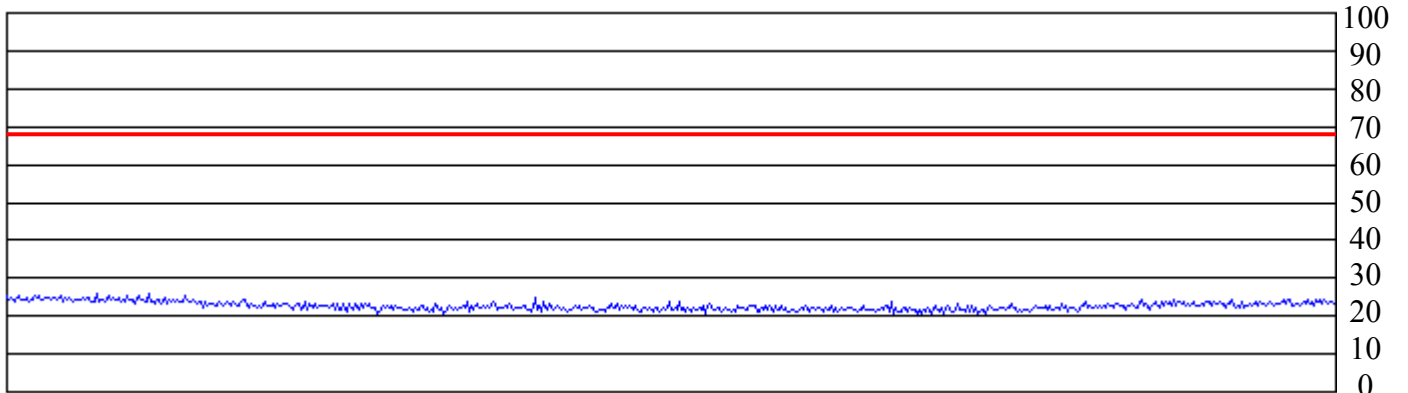
10-15GHz

(dBμV)

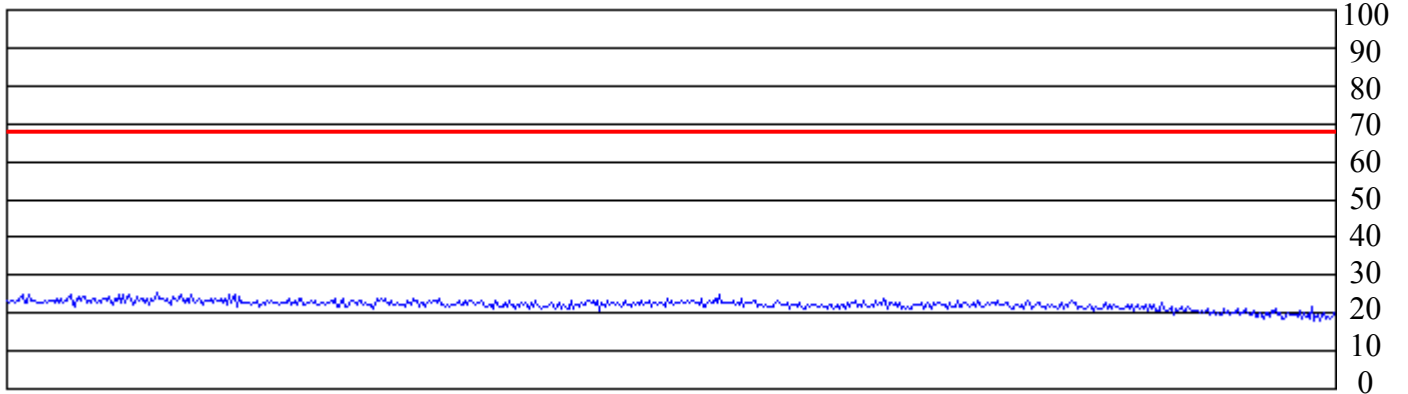


15-18GHz

(dBμV)

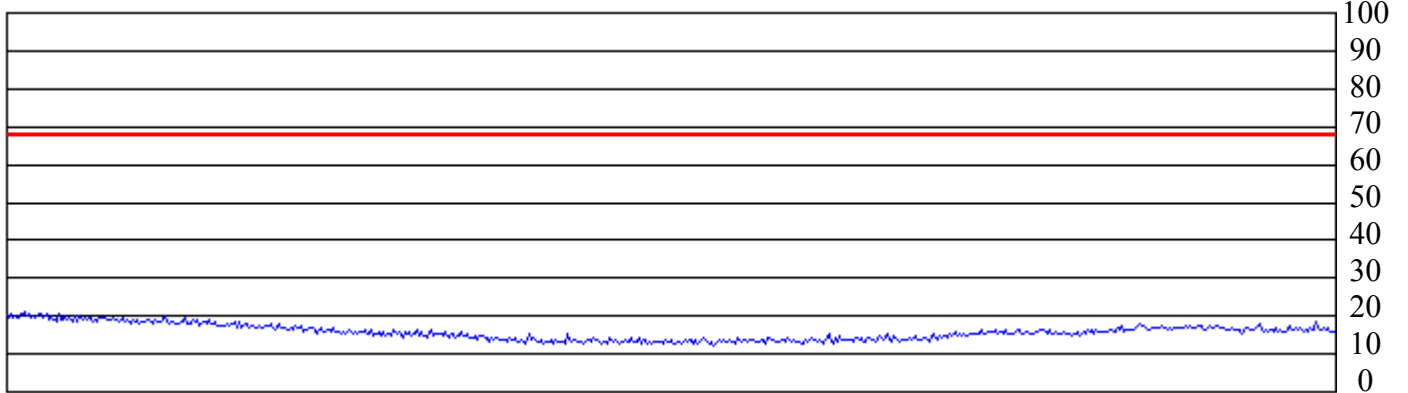


(dB $\mu$ V)



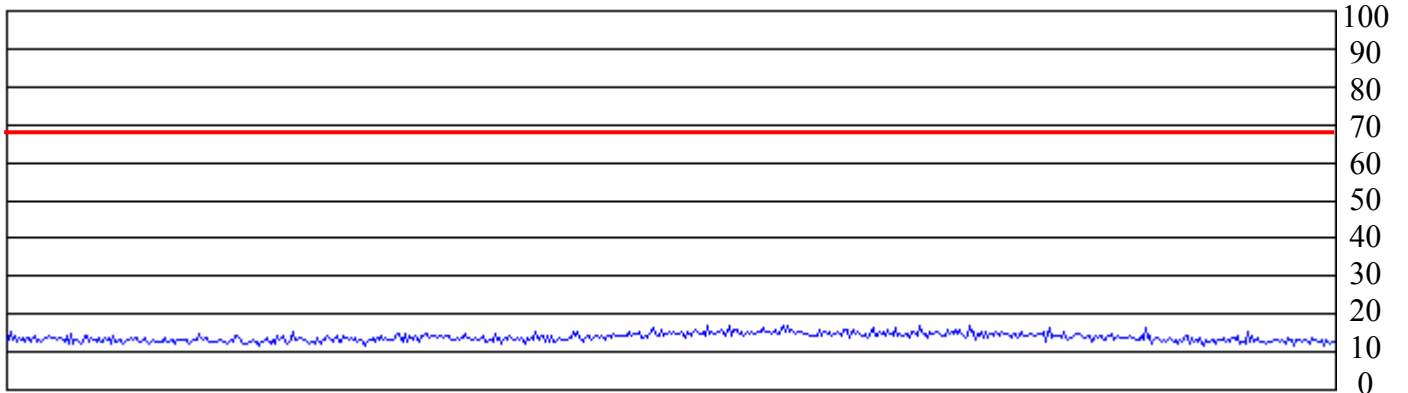
20-23.3GHz

(dB $\mu$ V)



23.3-25GHz

(dB $\mu$ V)



**AC Power Line Conducted Emission of Transmitter**

Test Data

Test Equipment: Refer to Table 4-1.

Operation mode: A, B, C

Modulation Type : 1, 2

Test Condition of Instrument

EUT Warm-up Time: 30 minutes

Date : October 4, 2011

Temp. : 22 deg.C

Humid. : 49 %

Worst Case: Operation mode: B, Modulation Type: DH5

Note: Pre-amplifier was only used for precheck measurements and was not used for final measurements.

Frequency [MHz]	*Correction Factor [dB]	Line	Reading Value [dB $\mu$ V]		Limit Value [dB $\mu$ V]		*Correction Value [dB $\mu$ V]		Margin Value [dB]	
			QP	AV	QP	AV	QP	AV	QP	AV
0.19	10.1	Va	28.2	14.6	64.0	54.0	38.3	24.7	25.7	29.3
0.29	10.0	Va	23.2	12.5	60.7	50.7	33.2	22.5	27.5	28.2
0.48	10.0	Va	14.6	5.8	56.4	46.4	24.6	15.8	31.8	30.6
0.57	10.0	Va	12.9	5.5	56.0	46.0	22.9	15.5	33.1	30.5
0.68	10.0	Va	14.5	7.1	56.0	46.0	24.5	17.1	31.5	28.9
13.78	10.3	Va	12.2	7.0	60.0	50.0	22.5	17.3	37.5	32.7
0.19	10.1	Vb	25.4	14.0	64.0	54.0	35.5	24.1	28.5	29.9
0.29	10.0	Vb	20.3	13.7	60.7	50.7	30.3	23.7	30.4	27.0
0.48	10.0	Vb	16.3	9.7	56.4	46.4	26.3	19.7	30.1	26.7
0.57	10.0	Vb	15.0	9.4	56.0	46.0	25.0	19.4	31.0	26.6
<b>0.68</b>	<b>10.0</b>	<b>Vb</b>	17.4	<b>11.0</b>	56.0	<b>46.0</b>	27.4	<b>21.0</b>	28.6	<b>25.0</b>
13.78	10.3	Vb	10.4	5.3	60.0	50.0	20.7	15.6	39.3	34.4

\* Correction Factor = LISN Factor + Cable loss

\* Correction Value = Reading Value + Correction Factor

Sample of calculated result at 0.68MHz, as the Minimum Margin point:

$$\begin{array}{rcl}
 & \text{Correction Factor} & = 10.0 \text{ dB} \\
 +) & \text{Reading Value} & = 11.0 \text{ dB}\mu\text{V} \\
 \hline
 & \text{Correction Value} & = 21.0 \text{ dB}\mu\text{V}
 \end{array}$$

Minimum Margin: 46.0 – 21.0 = 25.0 dB

The bold character in the table shows the Minimum Margin Point.

**9k - 25G Radiated Emission of Transmitter (Spurious and Harmonics)**

Test Data

Test Equipment: Refer to Table 4-2 (Below 1GHz) and Table 4-3 (Above 1GHz).

Operation mode: A, B, C

Modulation Type : 1, 2

Test Condition of Instrument

EUT Warm-up Time: 30 minutes

Date : October 13, 2011

Temp. : 22 deg.C

Humid. : 58 %

Worst Case: Operation mode: A, Modulation Type: DH5, 1601.02 MHz, X axis

The measurements were performed with the maximized emissions condition.

<Below 1GHz>

Worst condition of Operation mode: A was: Modulation Type: DH5, Test Axis: X-axis

Frequency [MHz]	*Correction Factor [dB/m]	Reading Value [dBμV]		Limits Value [dBμV/m]	*Correction Value [dBμV/m]		Margin Value [dB]	
		Hor.	Ver.		Hor.	Ver.	Hor.	Ver.
45.00	-14.7	23.7	34.2	40.0	9.0	19.5	31.0	20.5
48.00	-15.5	24.5	32.9	40.0	9.0	17.4	31.0	22.6
<b>52.00</b>	<b>-16.6</b>	25.5	<b>36.7</b>	<b>40.0</b>	8.9	<b>20.1</b>	31.1	<b>19.9</b>
54.00	-17.1	28.1	35.0	40.0	11.0	17.9	29.0	22.1
64.00	-19.9	26.7	35.1	40.0	6.8	15.2	33.2	24.8
145.00	-11.1	26.9	27.7	43.5	15.8	16.6	27.7	26.9

Worst condition of Operation mode: B was: Modulation Type: DH5, Test Axis: Z-axis

Frequency [MHz]	*Correction Factor [dB/m]	Reading Value [dBμV]		Limits Value [dBμV/m]	*Correction Value [dBμV/m]		Margin Value [dB]	
		Hor.	Ver.		Hor.	Ver.	Hor.	Ver.
45.00	-14.7	24.0	33.8	40.0	9.3	19.1	30.7	20.9
<b>48.00</b>	<b>-15.5</b>	24.5	<b>34.9</b>	<b>40.0</b>	9.0	<b>19.4</b>	31.0	<b>20.6</b>
52.00	-16.6	24.5	29.4	40.0	7.9	12.8	32.1	27.2
64.00	-19.9	25.4	29.6	40.0	5.5	9.7	34.5	30.3
78.00	-20.1	25.9	27.5	40.0	5.8	7.4	34.2	32.6
80.00	-20.1	26.5	28.5	40.0	6.4	8.4	33.6	31.6
145.00	-11.1	25.7	24.8	43.5	14.6	13.7	28.9	29.8

(continued)

Worst condition of Operation mode: C was: Modulation Type: DH5, Test Axis: X-axis

Frequency [MHz]	*Correction Factor [dB/m]	Reading Value [dBμV]		Limits Value [dBμV/m]	*Correction Value [dBμV/m]		Margin Value [dB]	
		Hor.	Ver.		Hor.	Ver.	Hor.	Ver.
45.00	-14.7	25.1	34.4	40.0	10.4	19.7	29.6	20.3
<b>48.00</b>	<b>-15.5</b>	25.7	<b>35.4</b>	<b>40.0</b>	10.2	<b>19.9</b>	29.8	<b>20.1</b>
52.00	-16.6	25.7	29.6	40.0	9.1	13.0	30.9	27.0
64.00	-19.9	27.4	29.9	40.0	7.5	10.0	32.5	30.0
78.00	-20.1	26.5	28.5	40.0	6.4	8.4	33.6	31.6
145.00	-11.1	26.4	28.8	43.5	15.3	17.7	28.2	25.8

- \* Correction Factor = Antenna Factor + Cable loss
- \* Correction Value= Reading Value + Correction Factor

<Above 1GHz>

Worst condition of Operation mode: A was: Modulation Type: DH5, Test Axis: X-axis

Polarity	Frequency (MHz)	Measure- ment Type	Reading (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Angle (deg)
Hori	1601.02	PK	17.8	25.6	1.7	45.1	74.0	28.9	100	181
<b>Hori</b>	<b>1601.02</b>	<b>AV</b>	<b>17.8</b>	<b>25.6</b>	<b>1.7</b>	<b>45.1</b>	<b>54.0</b>	<b>8.9</b>	<b>100</b>	<b>181</b>
Hori	4803.98	PK	23.1	33.0	3.1	59.2	74.0	14.8	104	208
Hori	4803.98	AV	23.0	33.0	3.1	*28.5	54.0	25.5	104	208

\*Reading(PK) + Antenna Factor + Cable Loss + Duty Cycle Correction Factor:

Dwell time = 2.910(msec), Pulse train duration in normal use (hopping mode): 5(sec) / 17 = 294(msec)  
[see result of Average Time of Occupancy test]

Duty cycle correction Factor =  $20\log(\text{Dwell time}/100) = -30.7(\text{dB})$

(continued)

Worst condition of Operation mode: B was: Modulation Type: DH5, Test Axis: X-axis

Polarity	Frequency (MHz)	Measurement Type	Reading (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Angle (deg)
Hori	1627.74	PK	14.5	25.7	1.7	41.9	74.0	32.1	100	132
Hori	1627.74	AV	14.4	25.7	1.7	41.8	54.0	12.2	100	132
Hori	4882.11	PK	21.6	33.2	3.1	57.9	74.0	16.1	105	127
Hori	4882.11	AV	21.6	33.2	3.1	*27.2	54.0	26.8	105	127

\*Reading(PK) + Antenna Factor + Cable Loss + Duty Cycle Correction Factor:

Dwell time = 2.910(msec), Pulse train duration in normal use (hopping mode): 5(sec) / 17 = 294(msec)

[see result of Average Time of Occupancy test]

Duty cycle correction Factor =  $20\log(\text{Dwell time}/100) = -30.7(\text{dB})$

Worst condition of Operation mode: C was: Modulation Type: DH5, Test Axis: X-axis

Polarity	Frequency (MHz)	Measurement Type	Reading (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Angle (deg)
Hori	1653.60	PK	17.3	25.8	1.7	44.8	74.0	29.2	128	180
Hori	1653.60	AV	17.3	25.8	1.7	44.8	54.0	9.2	128	180
Hori	4960.06	PK	19.5	33.3	3.2	56.0	74.0	18.0	100	209
Hori	4960.06	AV	19.1	33.3	3.2	*25.3	54.0	28.7	100	209

\*Reading(PK) + Antenna Factor + Cable Loss + Duty Cycle Correction Factor:

Dwell time = 2.910(msec), Pulse train duration in normal use (hopping mode): 5(sec) / 17 = 294(msec)

[see result of Average Time of Occupancy test]

Duty cycle correction Factor =  $20\log(\text{Dwell time}/100) = -30.7(\text{dB})$

Note:

\*.Other frequency noises omitted in this report were not seen or have margin 20dB (or more).

\* Correction Factor = Antenna Factor + Cable loss

Sample of calculated result at worst case:

$$\begin{array}{rcl}
 & \text{Correction Factor} & = 27.3 \text{ dB/m} \\
 +) & \text{Reading Value} & = 17.8 \text{ dB}\mu\text{V} \\
 \hline
 & \text{Correction Value} & = 45.1 \text{ dB}\mu\text{V/m}
 \end{array}$$

Minimum Margin:  $54.0 - 45.1 = 8.9 \text{ dB}$

The bold character in the table shows the Minimum Margin Point.

**Band Edge (Radiated Test)**

Test Data

Test Equipment: Refer to Table 4-2 (Below 1GHz) and Table 4-3 (Above 1GHz).

Operation mode: A, C

Modulation Type : 1, 2

Test Condition of Instrument

EUT Warm-up Time: 30 minutes

Date : November 11, 2011

Temp. : 20 deg.C

Humid. : 67%

Note: Pre-amplifier was only used for precheck measurements and was not used for final measurements.

Operation mode: A, Modulation Type: DH5, Test Axis: X-axis

Polarity	Frequency (MHz)	Measurement Type	Reading (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Angle (deg)
Hori	2390.00	PK	35.7	28.4	2.0	66.1	74.0	7.9	110	136
Hori	2390.00	AV	-	28.4	2.0	*35.4	54.0	18.6	110	136
Hori	2402.30	PK	62.9	28.4	2.0	93.3	-	-	110	136
Hori	2401.70	AV	53.4	28.4	2.0	83.8	-	-	110	136

\*Reading(PK) + Antenna Factor + Cable Loss + Duty Cycle Correction Factor:

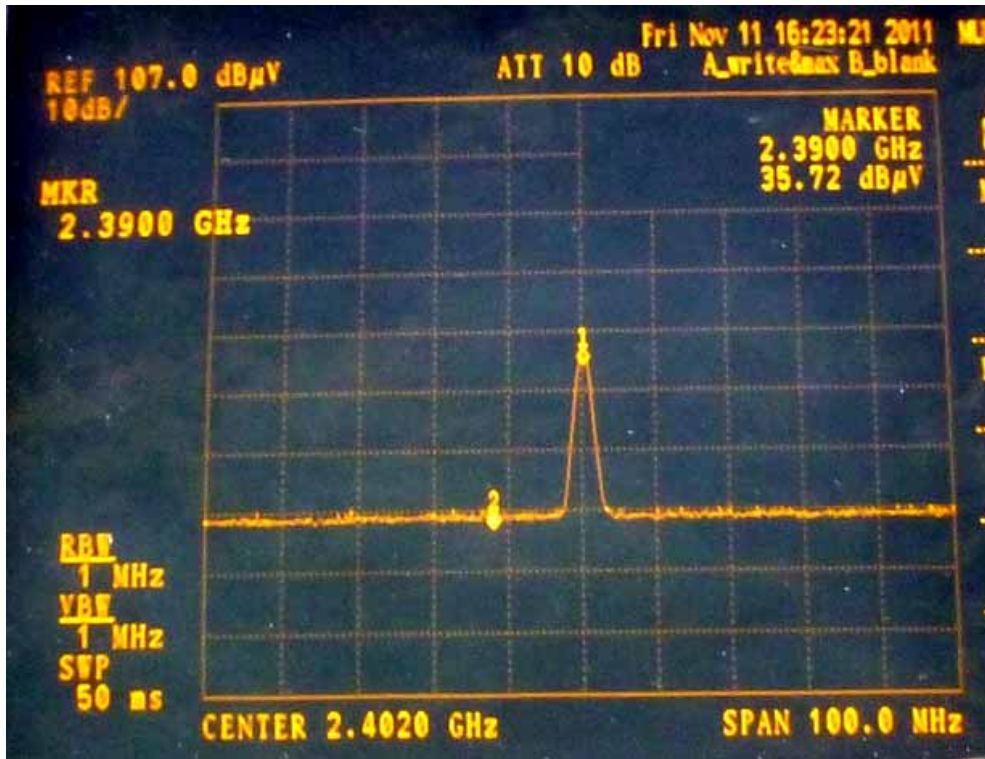
Dwell time = 2.910(msec), Pulse train duration in normal use (hopping mode): 5(sec) / 17 = 294(msec)

[see result of Average Time of Occupancy test]

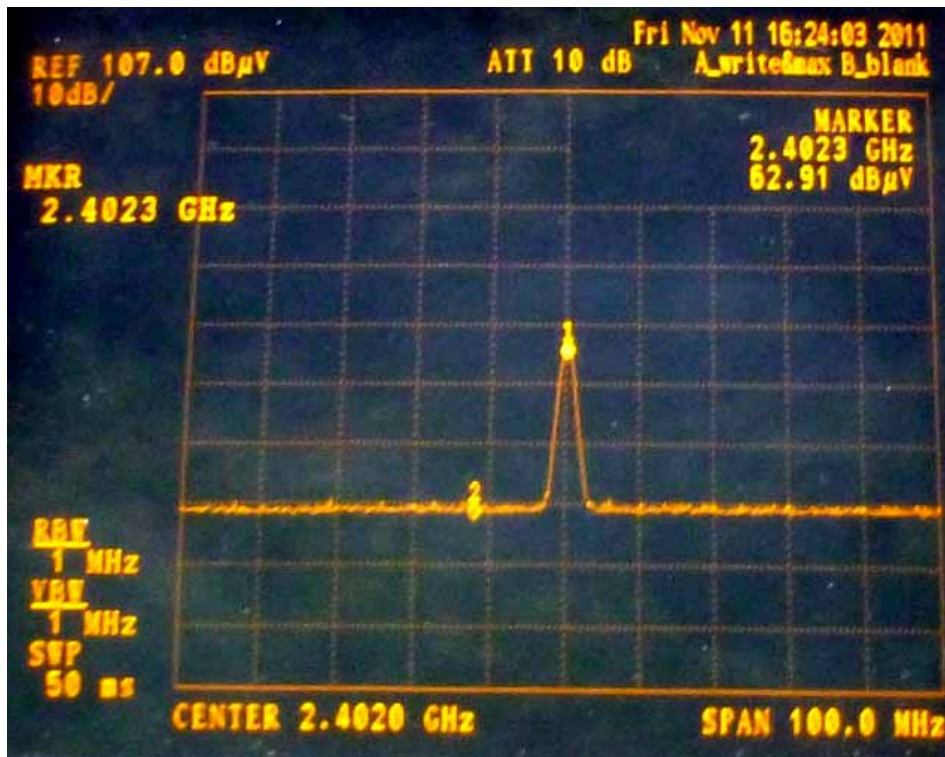
Duty cycle correction Factor =  $20\log(\text{Dwell time}/100) = -30.7(\text{dB})$ 

(continued)

2390.0MHz, PK



2402.3MHz, PK



(continued)

Operation mode: C, Modulation Type: DH5, Test Axis: X-axis

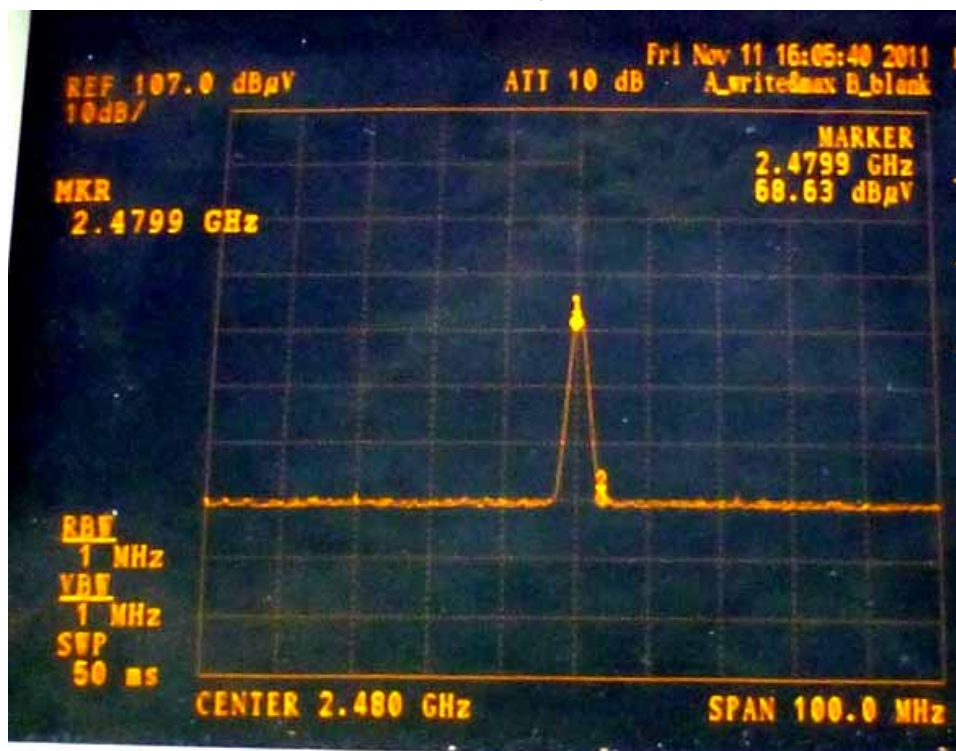
Polarity	Frequency (MHz)	Measurement Type	Reading (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Angle (deg)
Hori	2479.90	PK	68.5	28.6	2.0	99.1	-	-	107	25
Hori	2479.70	AV	59.6	28.6	2.0	90.2	-	-	107	25
Hori	2483.60	PK	37.7	28.7	2.0	68.4	74.0	5.6	107	25
Hori	2483.60	AV	-	28.7	2.0	*37.7	54.0	16.3	107	25

\*Reading(PK) + Antenna Factor + Cable Loss + Duty Cycle Correction Factor:

Dwell time = 2.910(msec), Pulse train duration in normal use (hopping mode): 5(sec) / 17 = 294(msec)  
 [see result of Average Time of Occupancy test]

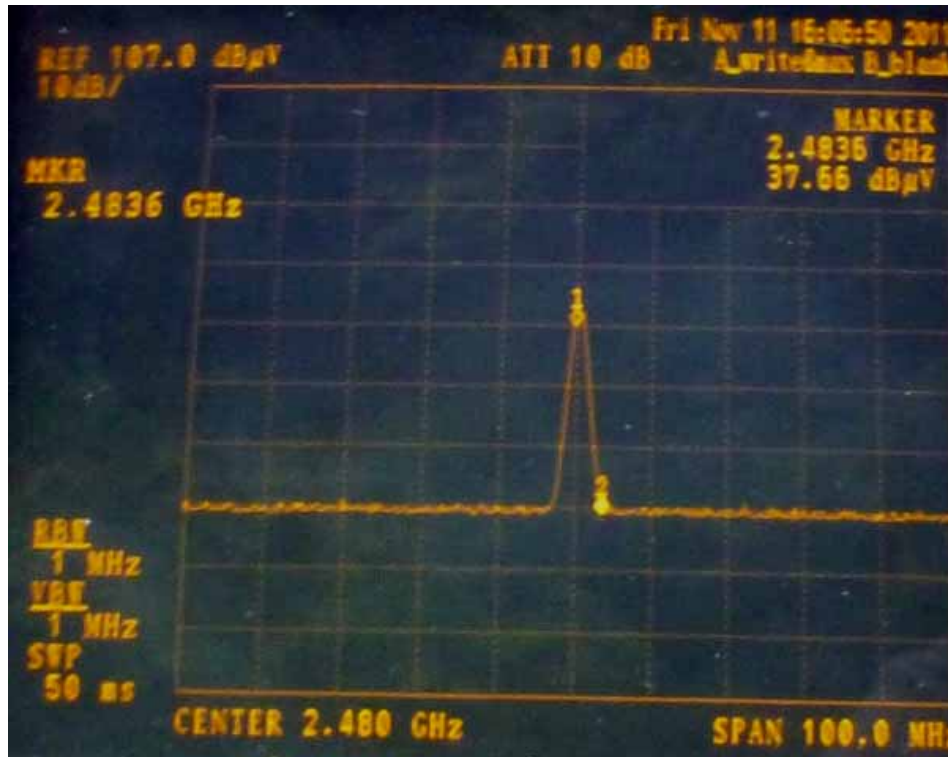
Duty cycle correction Factor =  $20\log(\text{Dwell time}/100) = -30.7(\text{dB})$

2479.9MHz, PK



(continued)

2483.6MHz, PK



Operation mode: A, Modulation Type: 3-DH5, Test Axis: X-axis

Polarity	Frequency (MHz)	Detector	Reading (dBµV)	Antenna Factor (dB/m)	Cable Loss (dB)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (deg)
Hori	2390.00	PK	36.9	28.4	2.0	67.3	74.0	6.7	110	136
Hori	2390.00	AV	-	28.4	2.0	*36.6	54.0	17.4	110	136
Hori	2401.90	PK	61.0	28.4	2.0	91.4	-	-	110	136
Hori	2401.90	AV	51.2	28.4	2.0	81.6	-	-	110	136

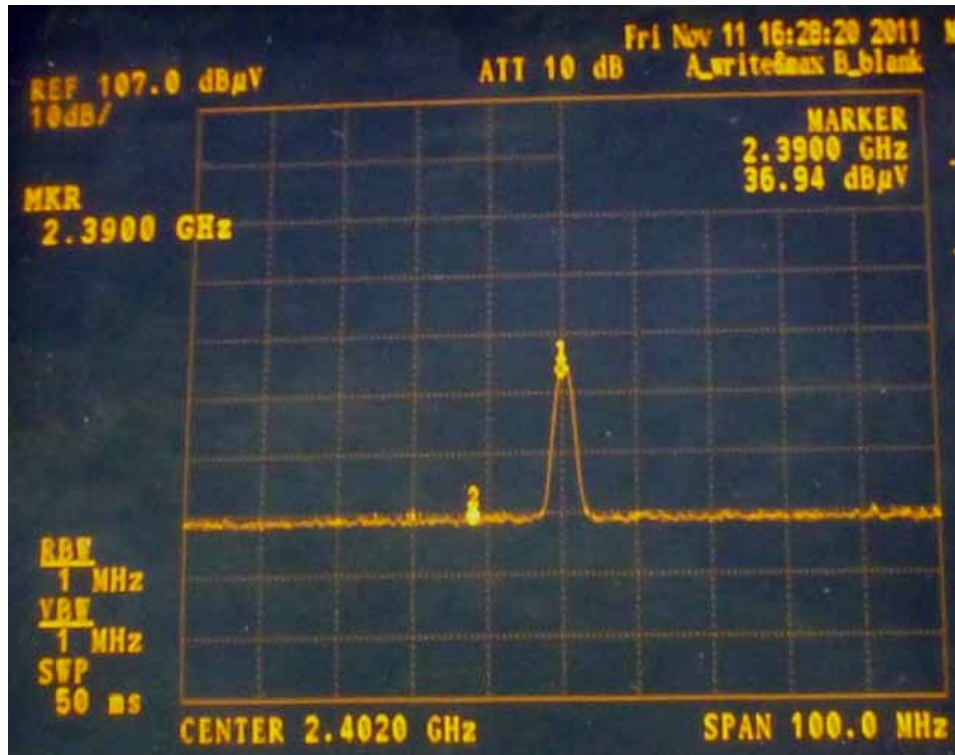
\*Reading(PK) + Antenna Factor + Cable Loss + Duty Cycle Correction Factor:

Dwell time = 2.910(msec), Pulse train duration in normal use (hopping mode): 5(sec) / 17 = 294(msec)  
 [see result of Average Time of Occupancy test]

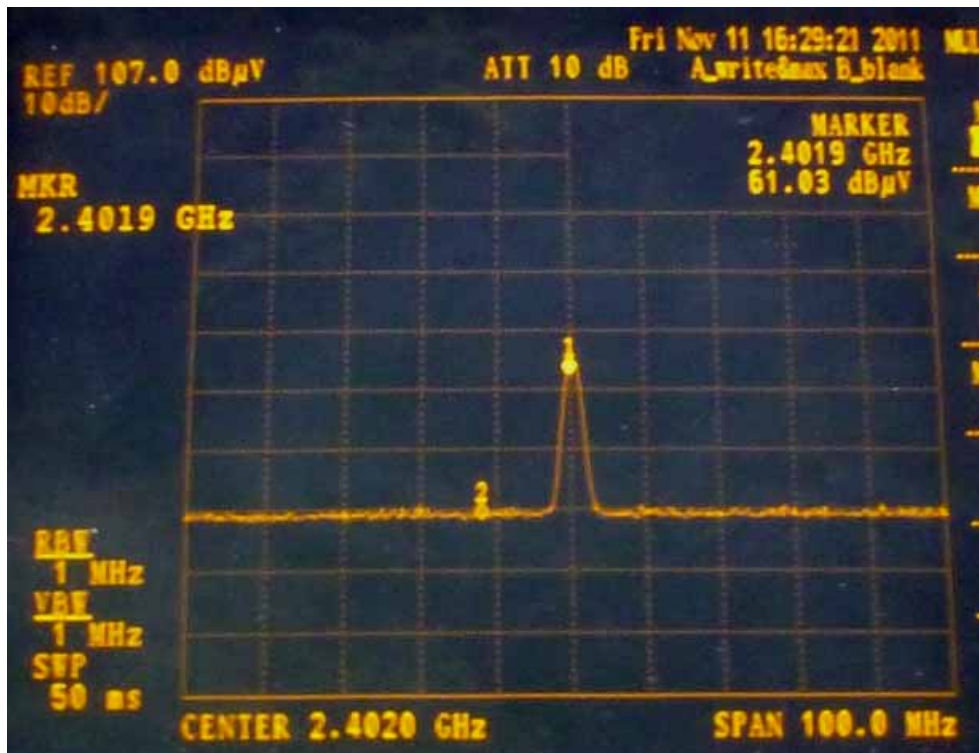
Duty cycle correction Factor =  $20\log(\text{Dwell time}/100) = -30.7(\text{dB})$

(continued)

2390.0MHz, PK



2401.9MHz, PK



(continued)

Operation mode: C, Modulation Type: 3-DH5, Test Axis: X-axis

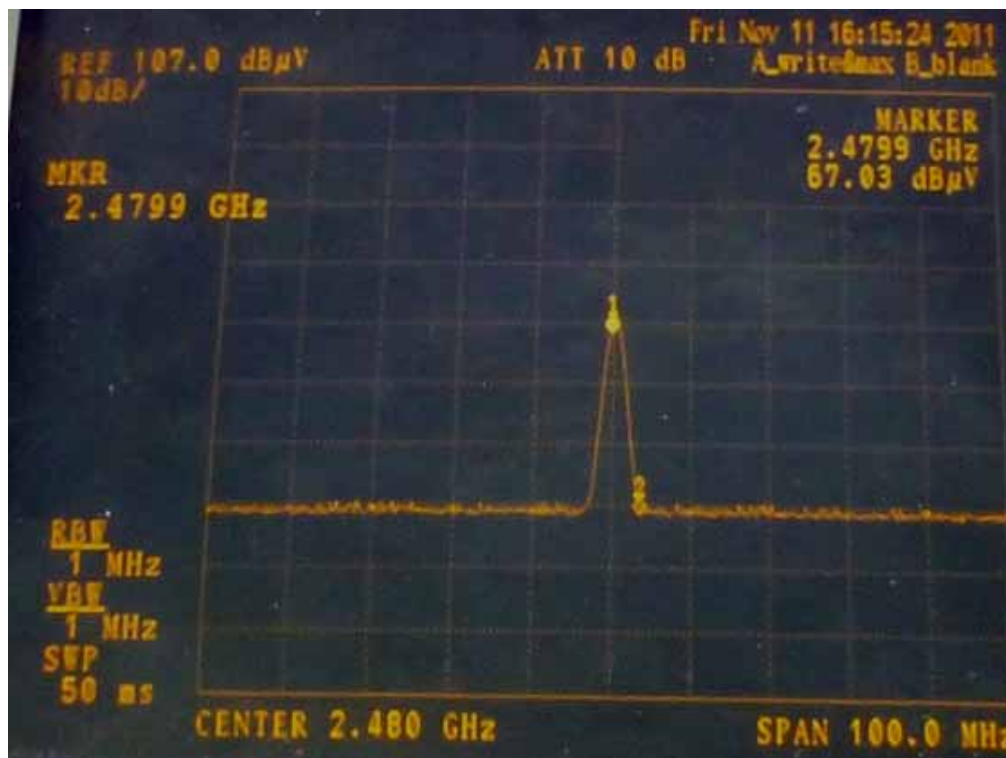
Polarity	Frequency (MHz)	Detector	Reading (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Angle (deg)
Hori	2479.90	PK	67.0	28.6	2.0	97.6	-	-	107	25
Hori	2479.90	AV	56.3	28.6	2.0	86.9	-	-	107	25
Hori	2483.60	PK	37.2	28.7	2.0	67.9	74.0	6.1	107	25
Hori	2483.60	AV	-	28.7	2.0	*37.2	54.0	19.8	107	25

\*Reading(PK) + Antenna Factor + Cable Loss + Duty Cycle Correction Factor:

Dwell time = 2.910(msec), Pulse train duration in normal use (hopping mode): 5(sec) / 17 = 294(msec)  
 [see result of Average Time of Occupancy test]

Duty cycle correction Factor =  $20\log(\text{Dwell time}/100) = -30.7(\text{dB})$

2479.9MHz, PK



(continued)

2483.6MHz, PK

