

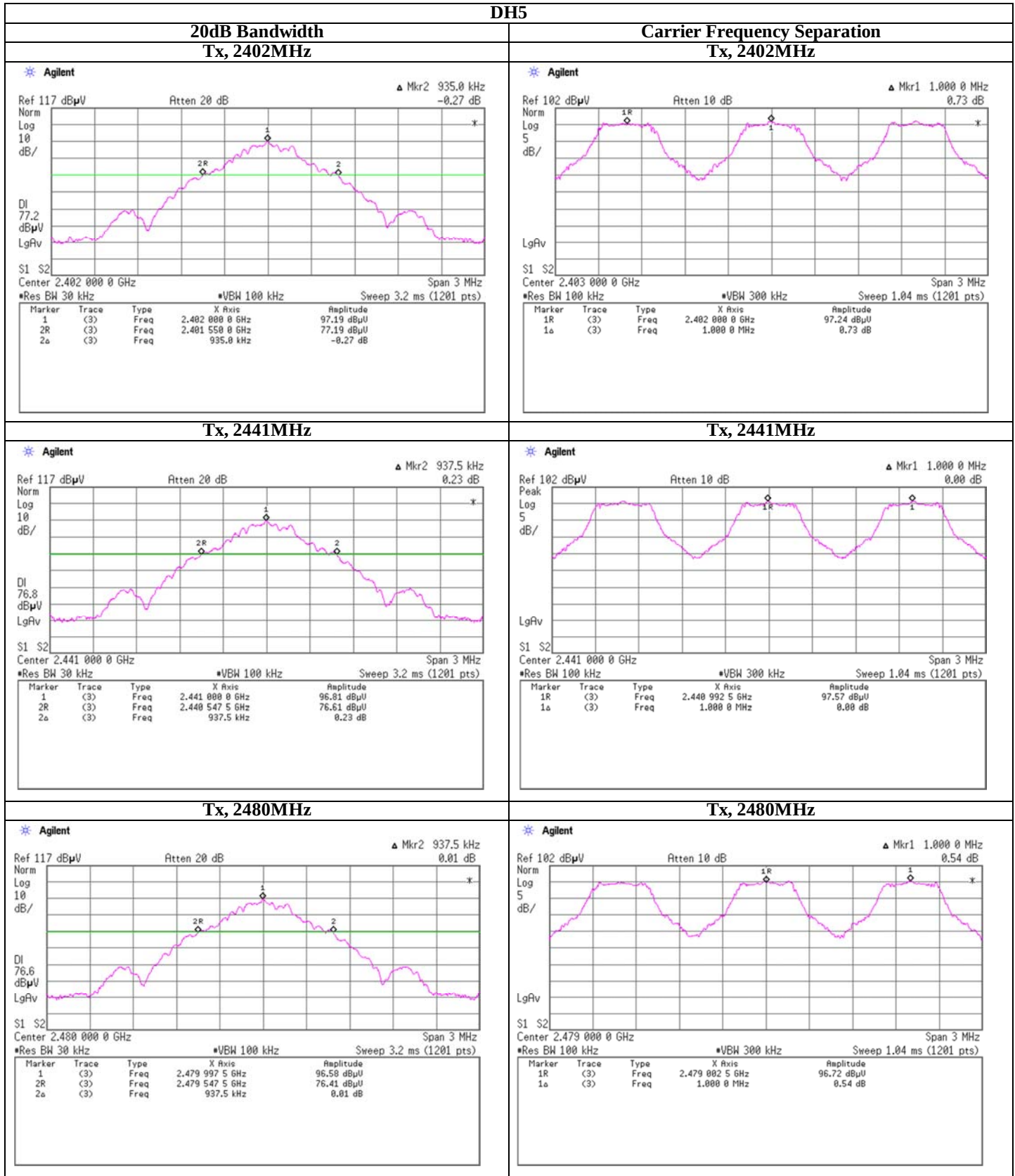
20dB Bandwidth and Carrier Frequency Separation

Test place UL Japan, Inc. Shonan EMC Lab. No.5 Shielded Room
Date 2010/11/17
Temperature / Humidity 23deg.C. , 52%
Engineer Makoto Hosaka
Mode BT-TEST mode

Mode	Freq. [MHz]	20dB Bandwidth [MHz]	Carrier Frequency Separation [MHz]	Limit for Carrier Frequency Separation [MHz]
DH5	2402.0	0.935	1.000	0.935
DH5	2441.0	0.938	1.000	0.938
DH5	2480.0	0.938	1.000	0.938
Inquiry	2441.0	0.778	2.000	0.778

Limit: 20dB Bandwidth or 25kHz (whichever is greater).
No limit applies to 20dB Bandwidth.

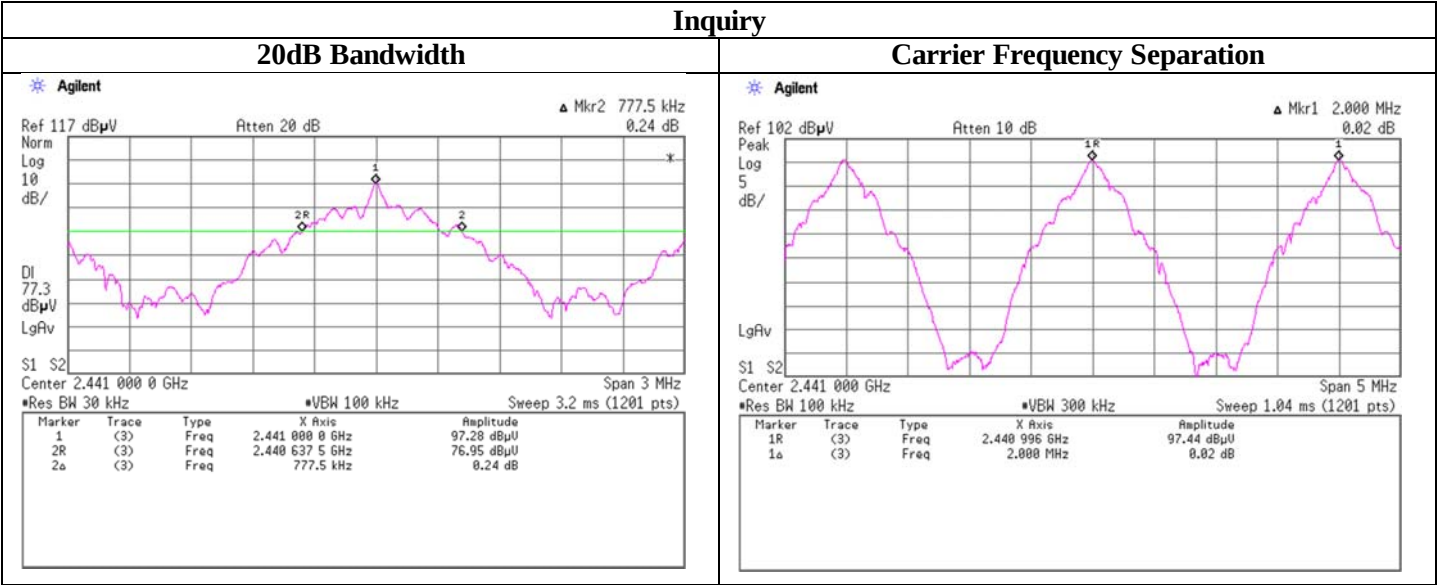
20dB Bandwidth and Carrier Frequency Separation



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20dB Bandwidth and Carrier Frequency Separation



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Number of Hopping Frequency (Conducted)

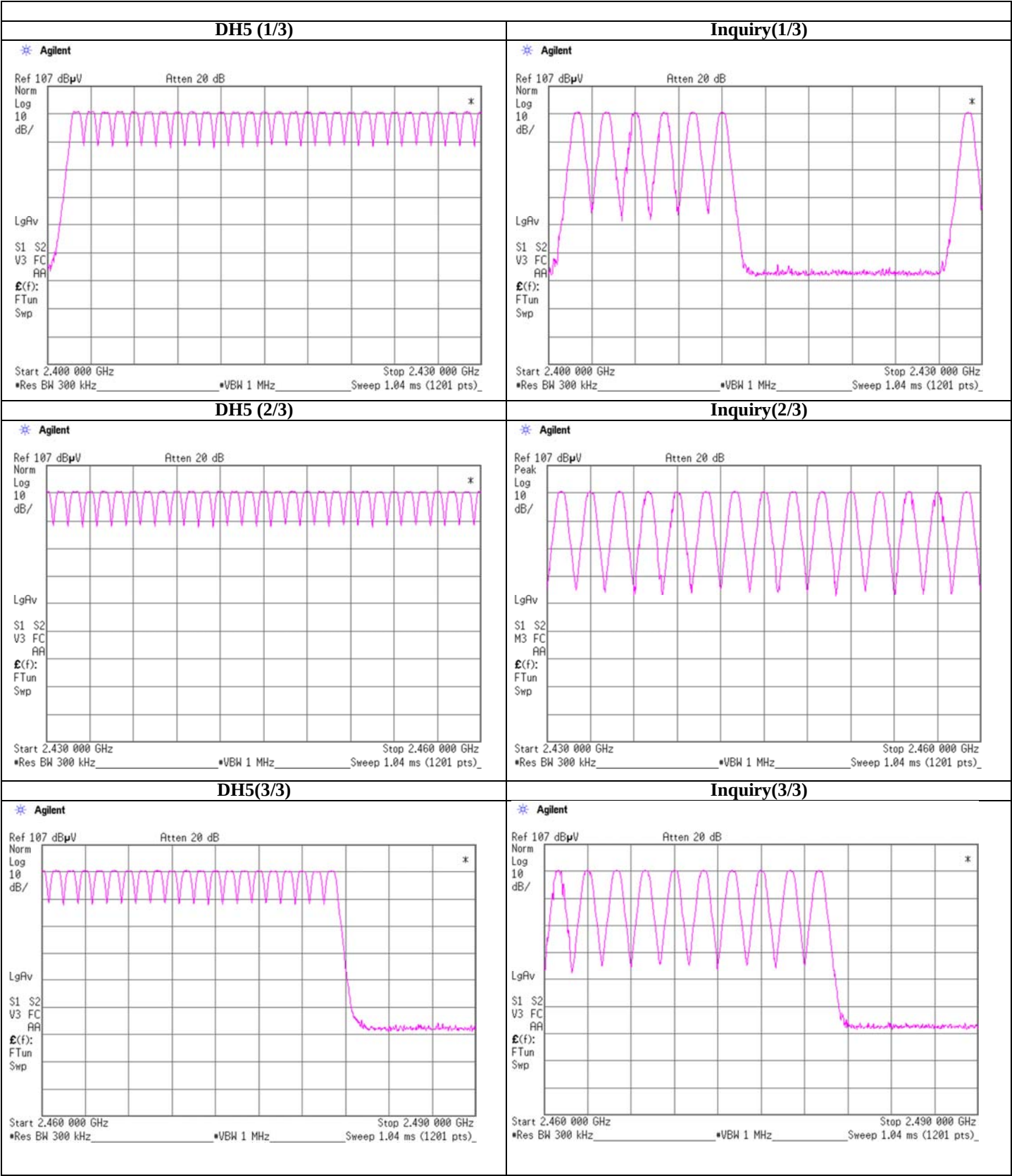
Test place UL Japan, Inc. Shonan EMC Lab. No.5 Shielded Room
Date 2010/11/17
Temperature / Humidity 23deg.C. , 52%
Engineer Makoto Hosaka
Mode BT-TEST mode

Mode	Number of Channel [times]	Limit [times]
DH5	79	>=15
Inquiry	32	>=15

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Number of Hopping Frequency



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Dwell Time (Conducted)

Test place UL Japan, Inc. Shonan EMC Lab. No.5 Shielded Room
Date 2010/11/17
Temperature / Humidity 23deg.C. , 52%
Engineer Makoto Hosaka
Mode BT-TEST mode

Mode	Number of transmission in a 31.6(79 Hopping x 0.4) / 12.8(32 Hopping x 0.4)second period				Length of transmission time[msec]	Result [msec]	Limit [msec]
DH1	16.8 times	/	5 sec.	x	31.6	107.0	400.0
DH3	15.6 times	/	5 sec.	x	31.6	99.0	400.0
DH5	16.0 times	/	5 sec.	x	31.6	102.0	400.0
Inquiry	100.0 times	/	1 sec.	x	12.8	1280.0	400.0

Sample Calculation

Result = Number of transmission x Length of transmtion time

*Average data of 5 tests.(except Inquiry)

Mode	Sampling [times]					Average [times]
	1	2	3.0	4.0	5.0	
DH1	20	13	17	18	16	16.8
DH3	16	14	15	19	14	15.6
DH5	17	14	20	15	14	16.0

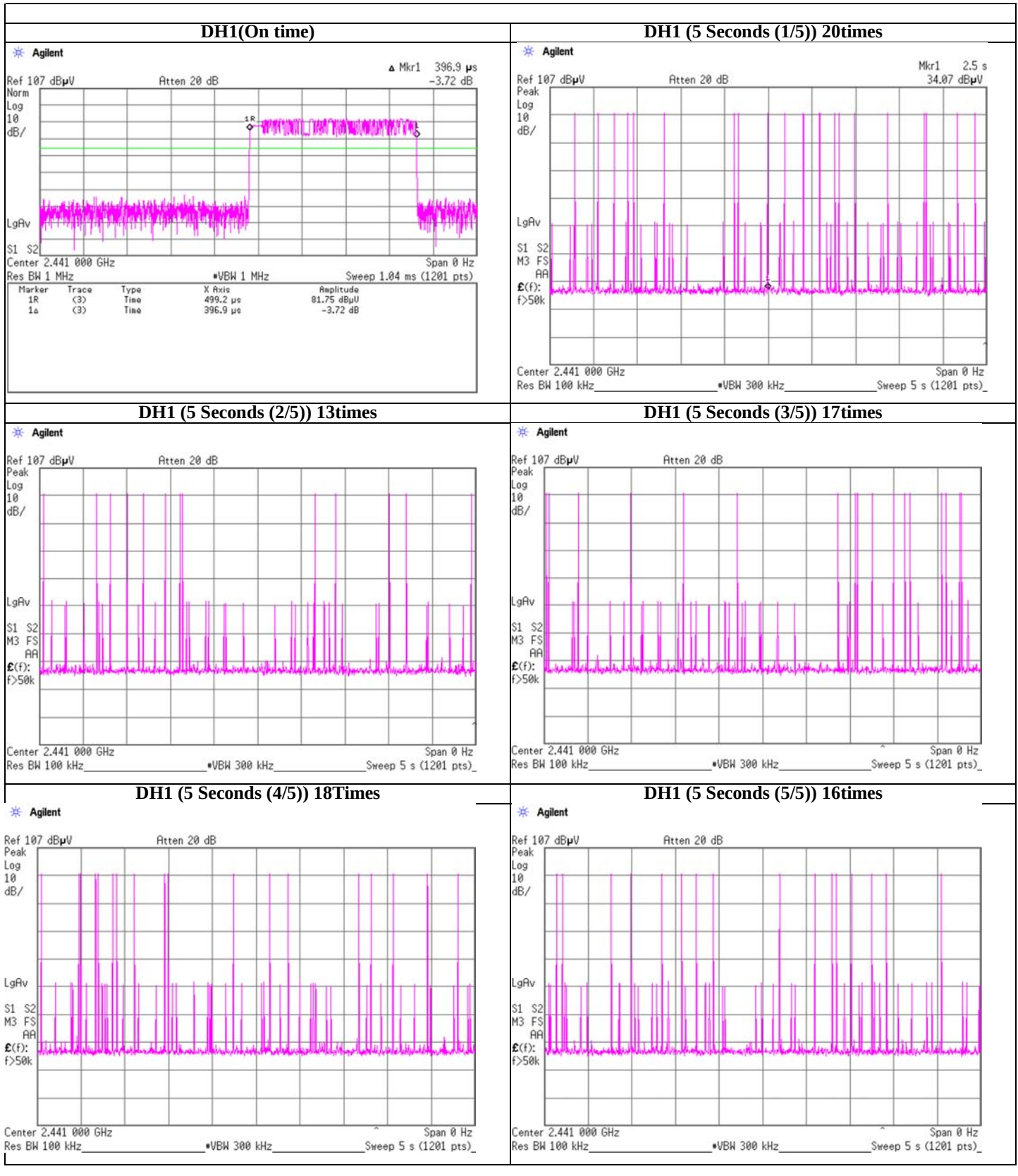
Sample Calculation

Average= Summation(Sampling 1 to 5) / 5

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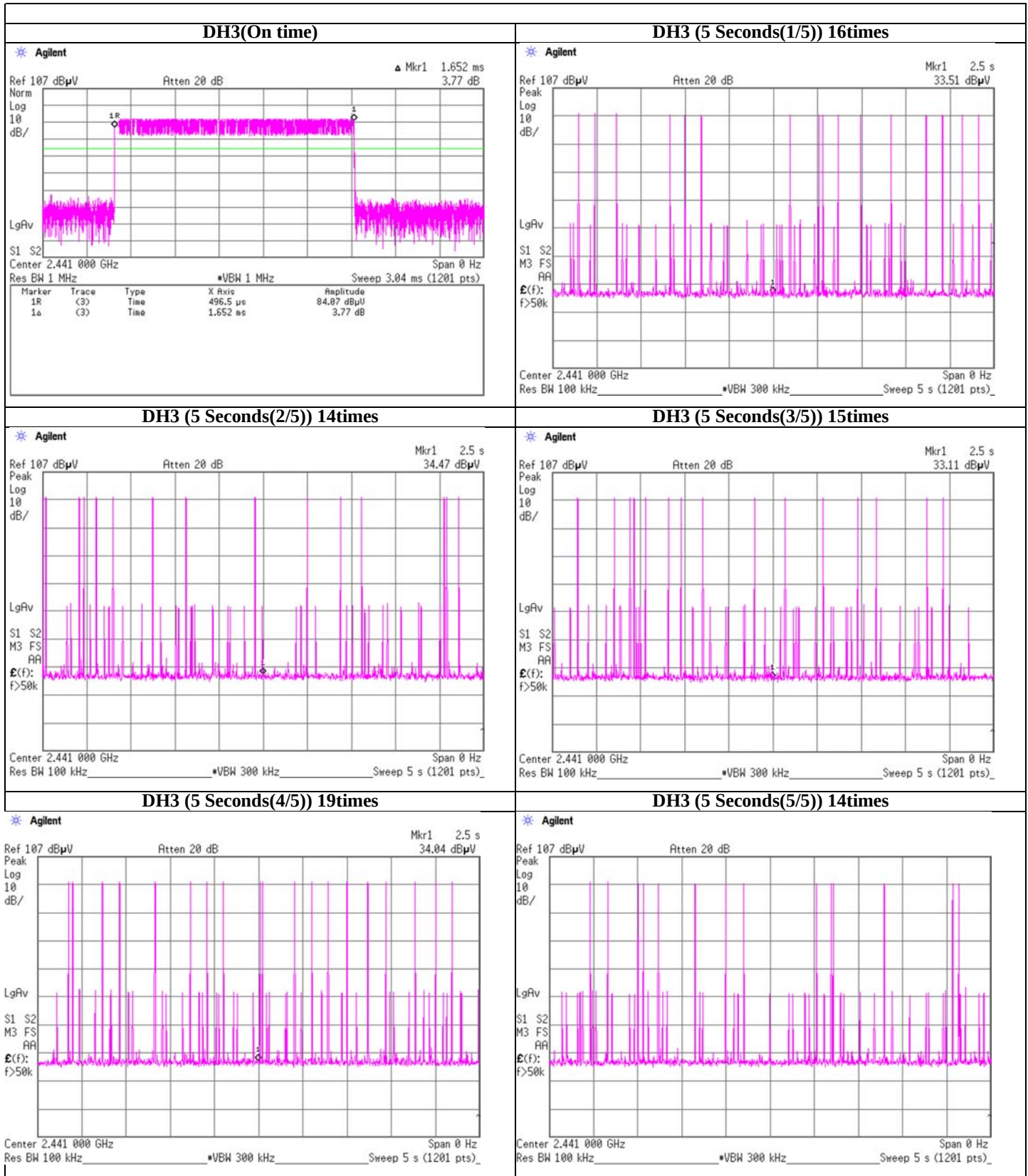
Dwell time



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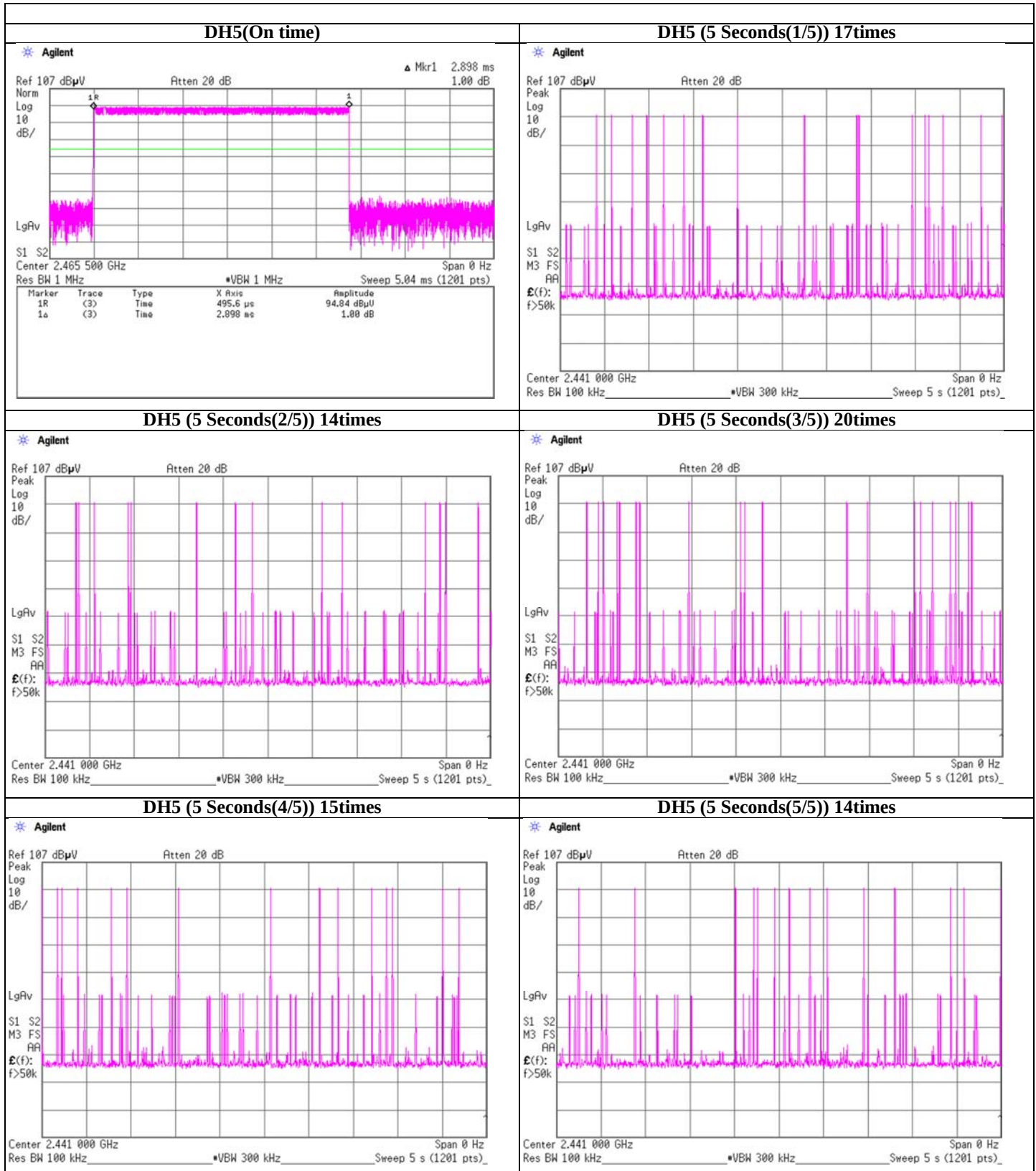
Dwell time



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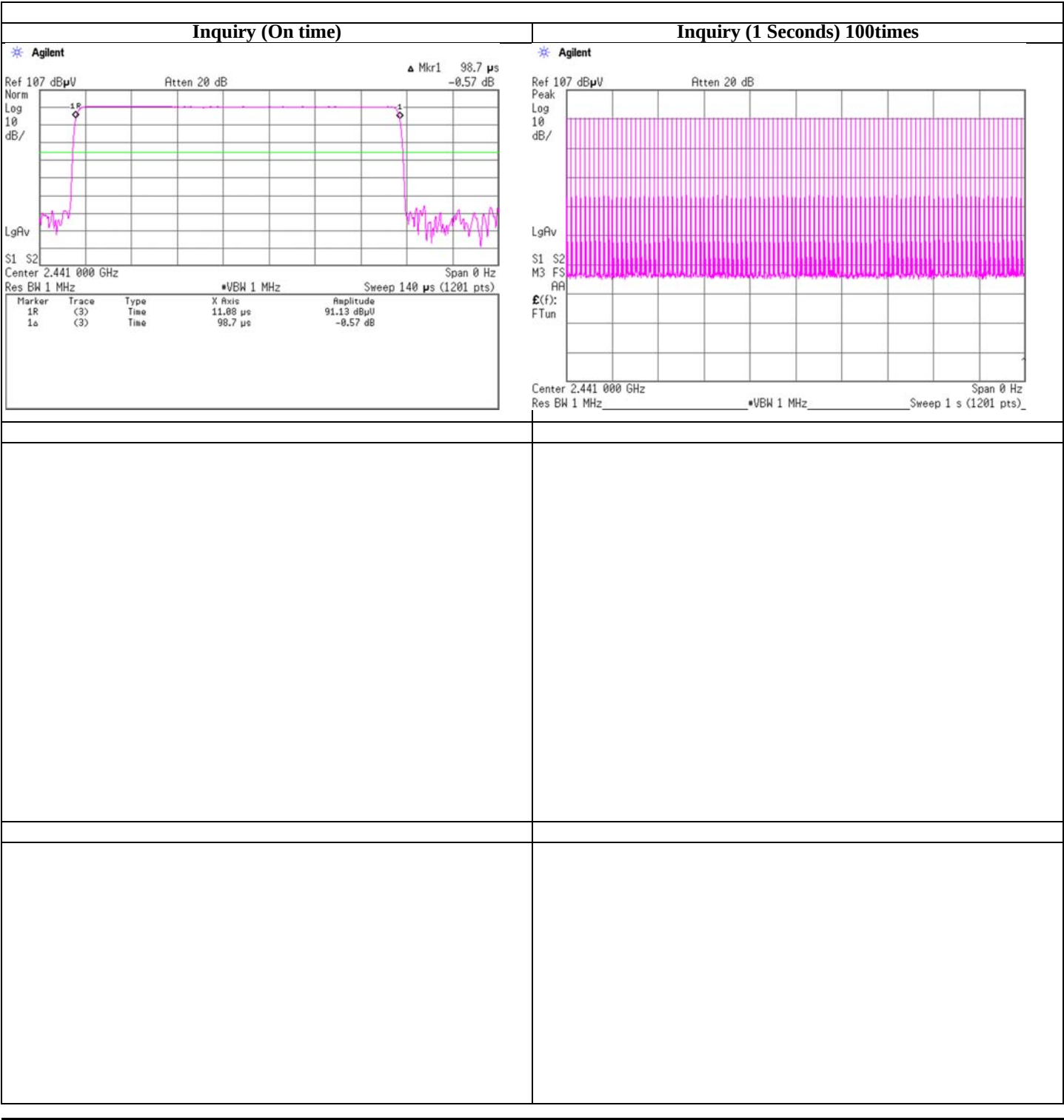
Dwell time



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Shonan EMC Lab.

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Dwell time



Peak Output Power (Conducted)

Test place UL Japan, Inc. Shonan EMC Lab. No.5 Shielded Room
 Date 2010/11/17
 Temperature / Humidity 23deg.C. , 52%
 Engineer Makoto Hosaka
 Mode BT-TEST mode

BDR (DH5)

Ch	Freq. [MHz]	P/M (PK) Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Result		Limit		Margin [dB]
					[dBm]	[mW]	[dBm]	[mW]	
Low	2402.0	1.46	0.5	0.0	1.9	1.6	30.0	1000.0	28.1
Mid	2441.0	0.80	0.4	0.0	1.2	1.3	30.0	1000.0	28.8
High	2480.0	0.39	0.6	0.0	1.0	1.3	30.0	1000.0	29.0
Inquiry	-	1.20	0.4	0.0	1.6	1.5	30.0	1000.0	28.4

Sample Calculation:

*Result = Reading + Cable Loss

* In the above table, factor 0.0dB represents no use of Atten. and/or Filter.

*The test result is rounded off to one or two decimal places, so some differences might be observed.

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Radiated Emission

Test place UL Japan, Inc. Shonan EMC Lab. No.3 Semi Anechoic Chamber
 Date 2010/11/15
 Temperature / Humidity 24deg.C. / 41%,
 Engineer Wataru Kojima, Shinichi Takano
 Mode Tx, 2402 MHz
 Bluetooth, DH5

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	87.74	QP	53.0	7.5	7.1	32.1	35.5	40.0	4.5	209	42	
Hori.	113.58	QP	44.4	11.6	7.3	32.1	31.2	43.5	12.3	163	293	
Hori.	212.61	QP	42.3	16.5	7.9	32.0	34.7	43.5	8.8	142	301	
Hori.	411.76	QP	43.8	16.0	8.9	31.9	36.8	46.0	9.2	100	321	
Hori.	442.25	QP	30.7	16.4	9.1	31.9	24.3	46.0	21.7	100	123	
Hori.	1440.05	PK	56.2	24.9	12.6	40.0	53.7	73.9	20.2	132	51	
Hori.	2390.00	PK	47.9	27.5	13.3	40.2	48.5	73.9	25.4	100	330	
Hori.	2400.00	PK	50.8	27.5	13.3	40.2	51.4	-	-	100	330	See 20dBc data sheet
Hori.	3360.01	PK	54.4	29.4	4.8	41.2	47.4	73.9	26.5	100	253	
Hori.	4804.00	PK	51.4	31.5	5.5	40.1	48.3	73.9	25.6	100	1	Not Detected
Hori.	7206.00	PK	50.0	36.4	6.7	38.3	54.8	73.9	19.1	100	1	Not Detected
Hori.	9608.00	PK	45.8	37.9	7.8	37.3	54.2	73.9	19.7	100	1	Not Detected
Hori.	12010.00	PK	43.6	39.4	9.0	38.4	53.6	73.9	20.3	100	1	Not Detected
Hori.	1440.05	AV	52.5	24.9	12.6	40.0	50.0	53.9	3.9	132	51	VBW:10Hz
Hori.	2390.00	AV	35.1	27.5	13.3	40.2	35.7	53.9	18.2	100	330	VBW:270Hz
Hori.	2400.00	AV	45.0	27.5	13.3	40.2	45.6	-	-	100	330	See 20dBc data sheet
Hori.	3360.01	AV	48.4	29.4	4.8	41.2	41.4	53.9	12.5	100	253	VBW:10Hz
Hori.	4804.00	AV	41.9	31.5	5.5	40.1	38.8	53.9	15.1	100	1	Not Detected
Hori.	7206.00	AV	34.6	36.4	6.7	38.3	39.4	53.9	14.5	100	1	Not Detected
Hori.	9608.00	AV	31.4	37.9	7.8	37.3	39.8	53.9	14.1	100	1	Not Detected
Hori.	12010.00	AV	33.6	39.4	9.0	38.4	43.6	53.9	10.3	100	1	Not Detected
Vert.	41.42	QP	36.6	14.2	6.7	32.1	25.4	40.0	14.6	100	342	
Vert.	113.57	QP	43.5	11.6	7.3	32.1	30.3	43.5	13.2	100	210	
Vert.	126.37	QP	40.9	12.7	7.4	32.1	28.9	43.5	14.6	100	241	
Vert.	442.25	QP	29.1	16.4	9.1	31.9	22.7	46.0	23.3	123	199	
Vert.	1440.05	PK	53.4	24.9	12.6	40.0	50.9	73.9	19.3	158	125	
Vert.	2390.00	PK	35.6	27.5	13.3	40.2	36.2	73.9	25.6	100	326	
Vert.	2400.00	PK	40.4	27.5	13.3	40.2	41.0	-	-	100	326	See 20dBc data sheet
Vert.	3360.01	PK	43.1	29.4	4.8	41.2	36.1	73.9	29.1	119	160	
Vert.	4804.00	PK	46.0	31.5	5.5	40.1	42.9	73.9	22.6	105	359	Not Detected
Vert.	7206.00	PK	35.2	36.4	6.7	38.3	40.0	73.9	19.2	100	359	Not Detected
Vert.	9608.00	PK	33.1	37.9	7.8	37.3	41.5	73.9	17.0	100	359	Not Detected
Vert.	12010.00	PK	33.7	39.4	9.0	38.4	43.7	53.9	19.7	100	359	Not Detected
Vert.	1440.05	AV	53.4	24.9	12.6	40.0	50.9	53.9	3.0	158	125	VBW:10Hz
Vert.	2390.00	AV	35.6	27.5	13.3	40.2	36.2	53.9	17.7	100	326	VBW:270Hz
Vert.	2400.00	AV	40.4	27.5	13.3	40.2	41.0	-	-	100	326	See 20dBc data sheet
Vert.	3360.01	AV	43.1	29.4	4.8	41.2	36.1	53.9	17.8	119	160	VBW:10Hz
Vert.	4804.00	AV	46.0	31.5	5.5	40.1	42.9	53.9	11.0	105	359	Not Detected
Vert.	7206.00	AV	35.2	36.4	6.7	38.3	40.0	53.9	13.9	100	359	Not Detected
Vert.	9608.00	AV	33.1	37.9	7.8	37.3	41.5	53.9	12.4	100	359	Not Detected
Vert.	12010.00	AV	33.7	39.4	9.0	38.4	43.7	53.9	10.2	100	359	Not Detected

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter-Distance factor(above 13GHz)) - Gain(Amplifier)

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

*The 3-10th harmonic was not seen so the result was its base noise level.

Distance factor: 13GHz-40GHz 20log(3.0m/1.0m)= 9.5dB

20dBc Data Sheet (RBW 100kHz, VBW 300kHz)

Polarity	Frequency	Detector	Reading	Ant Factor	Loss	Gain	Result	Limit	Margin	Remark
Hor	2402.000	PK	92.9	27.5	13.3	40.2	93.5	-	-	Carrier
	2400.000	PK	42.2	27.5	13.3	40.2	42.8	73.5	30.7	
Vert.	2402.000	PK	90.8	27.5	13.3	40.2	91.4	-	-	Carrier
	2400.000	PK	39.8	27.5	13.3	40.2	40.4	71.4	31.0	

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter-Distance factor(above 13GHz)) - Gain(Amplifier)

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Facsimile : +81 463 50 6401

Radiated Emission

Test place UL Japan, Inc. Shonan EMC Lab. No.3 Semi Anechoic Chamber
Date 2010/11/15
Temperature / Humidity 24deg.C. / 41%,
Engineer Wataru Kojima, Shinichi Takano

Mode Tx, 2441.0 MHz
 Bluetooth, DH5

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	87.73	QP	53.0	7.5	7.1	32.1	35.5	40.0	4.5	209	42	
Hori.	113.58	QP	44.4	11.6	7.3	32.1	31.2	43.5	12.3	163	293	
Hori.	209.27	QP	42.3	16.5	7.9	32.0	34.7	43.5	8.8	142	301	
Hori.	411.76	QP	43.8	16.0	8.9	31.9	36.8	46.0	9.2	100	321	
Hori.	442.25	QP	30.7	16.4	9.1	31.9	24.3	46.0	21.7	100	123	
Hori.	1440.04	PK	56.1	24.9	12.6	40.0	56.1	73.9	20.3	100	50	
Hori.	3360.01	PK	54.9	29.4	4.8	41.2	54.9	73.9	26.0	100	253	
Hori.	4882.00	PK	46.7	31.7	5.6	40.0	46.7	73.9	29.9	100	1	Not Detected
Hori.	7323.00	PK	47.3	36.7	6.9	38.5	47.3	73.9	21.5	100	1	Not Detected
Hori.	9764.00	PK	44.8	38.2	7.8	37.4	44.8	73.9	20.5	100	1	Not Detected
Hori.	12205.00	AV	46.0	39.2	9.1	38.1	46.0	73.9	17.7	100	1	Not Detected
Hori.	1440.04	AV	52.4	24.9	12.6	40.0	49.9	53.9	4.0	100	50	VBW:10Hz
Hori.	3360.01	AV	48.4	29.4	4.8	41.2	41.4	53.9	12.5	100	253	VBW:10Hz
Hori.	4882.00	AV	36.9	31.7	5.6	40.0	34.2	53.9	19.7	100	1	Not Detected
Hori.	7323.00	AV	34.1	36.7	6.9	38.5	39.2	53.9	14.7	100	1	Not Detected
Hori.	9764.00	AV	33.1	38.2	7.8	37.4	41.7	53.9	12.2	100	1	Not Detected
Hori.	12205.00	AV	33.2	39.2	9.1	38.1	43.4	53.9	10.5	100	1	Not Detected
Vert.	41.44	QP	37.0	14.2	6.7	32.1	25.8	40.0	14.2	100	346	
Vert.	113.60	QP	45.2	11.5	7.3	32.1	31.9	43.5	11.6	100	225	
Vert.	126.37	QP	42.0	12.7	7.4	32.1	30.0	43.5	13.5	100	255	
Vert.	442.25	QP	29.3	16.4	9.1	31.9	22.9	46.0	23.1	114	199	
Vert.	1440.04	PK	57.2	24.9	12.6	40.0	54.7	73.9	19.2	158	125	
Vert.	3360.01	PK	53.0	29.4	4.8	41.2	46.0	73.9	27.9	117	161	
Vert.	4882.00	PK	48.8	31.7	5.6	40.0	46.1	73.9	27.8	100	359	Not Detected
Vert.	7323.00	PK	46.6	36.7	6.9	38.5	51.7	73.9	22.2	100	359	Not Detected
Vert.	9764.00	PK	46.1	38.2	7.8	37.4	54.7	73.9	19.2	100	359	Not Detected
Vert.	12205.00	PK	46.1	39.2	9.1	38.1	56.3	73.9	17.6	100	359	Not Detected
Vert.	1440.04	AV	53.3	24.9	12.6	40.0	50.8	53.9	3.1	158	125	VBW:10Hz
Vert.	3360.01	AV	43.3	29.4	4.8	41.2	36.3	53.9	17.6	117	161	VBW:10Hz
Vert.	4882.00	AV	36.5	31.7	5.6	40.0	33.8	53.9	20.1	100	359	Not Detected
Vert.	7323.00	AV	34.6	36.7	6.9	38.5	39.7	53.9	14.2	100	359	Not Detected
Vert.	9764.00	AV	33.0	38.2	7.8	37.4	41.6	53.9	12.3	100	359	Not Detected
Vert.	12205.00	AV	33.7	39.2	9.1	38.1	43.9	53.9	10.0	100	359	Not Detected

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter-Distance factor(above 13GHz)) - Gain(Amplifier)

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

*The 3 to 10th harmonic was not seen so the result was its base noise level.

Distance factor: 13GHz-40GHz 20log(3.0m/1.0m)= 9.5dB

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Radiated Emission

Test place UL Japan, Inc. Shonan EMC Lab. No.3 Semi Anechoic Chamber
 Date 2010/11/15
 Temperature / Humidity 24deg.C. / 41%,
 Engineer Wataru Kojima, Shinichi Takano
 Mode Tx, 2480 MHz
 Bluetooth, DH5

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	87.747	QP	53.2	7.5	7.1	32.1	35.7	40.0	4.3	216	42	
Hori.	113.622	QP	43.0	11.6	7.3	32.1	29.8	43.5	13.7	154	292	
Hori.	209.274	QP	43.5	16.5	7.9	32.0	35.9	43.5	7.6	150	301	
Hori.	411.741	QP	43.5	16.0	8.9	31.9	36.5	46.0	9.5	100	325	
Hori.	442.25	QP	30.5	16.4	9.1	31.9	24.1	46.0	21.9	100	124	
Hori.	1441	PK	56.1	24.9	12.6	40.0	53.6	73.9	20.3	100	50	
Hori.	2483.5	PK	54.9	27.6	13.4	40.1	47.9	73.9	26.0	100	253	
Hori.	4960	PK	46.7	31.9	5.6	40.0	44.0	73.9	29.9	100	1	Not Detected
Hori.	7440	PK	47.3	36.9	7.1	38.7	52.4	73.9	21.5	100	1	Not Detected
Hori.	9920	PK	44.8	38.4	8.0	37.5	53.4	73.9	20.5	100	1	Not Detected
Hori.	12400	PK	46.0	39.1	9.4	37.9	56.2	73.9	17.7	100	1	Not Detected
Hori.	1441	AV	52.4	24.9	12.6	40.0	49.9	53.9	4.0	100	50	VBW:10Hz
Hori.	2483.5	AV	48.4	27.6	13.4	40.1	41.4	53.9	12.5	100	253	VBW:270Hz
Hori.	4960	AV	36.9	31.9	5.6	40.0	34.2	53.9	19.7	100	1	Not Detected
Hori.	7440	AV	34.1	36.9	7.1	38.7	39.2	53.9	14.7	100	1	Not Detected
Hori.	9920	AV	33.1	38.4	8.0	37.5	41.7	53.9	12.2	100	1	Not Detected
Hori.	12400	AV	33.2	39.1	9.4	37.9	43.4	53.9	10.5	100	1	Not Detected
Vert.	41.338	QP	35.7	14.2	6.7	32.1	24.5	40.0	15.5	100	345	
Vert.	113.608	QP	43.2	11.6	7.3	32.1	30.0	43.5	13.5	100	224	
Vert.	126.369	QP	41.3	12.7	7.4	32.1	29.3	43.5	14.2	100	246	
Vert.	442.25	QP	29.3	16.4	9.1	31.9	22.9	46.0	23.1	112	201	
Vert.	1441	PK	57.2	24.9	12.6	40.0	54.7	73.9	19.2	158	125	
Vert.	2483.5	PK	53.0	27.6	13.4	40.1	46.0	73.9	27.9	117	161	
Vert.	4960	PK	48.8	31.9	5.6	40.0	46.1	73.9	27.8	100	359	Not Detected
Vert.	7440	PK	46.6	36.9	7.1	38.7	51.7	73.9	22.2	100	359	Not Detected
Vert.	9920	PK	46.1	38.4	8.0	37.5	54.7	73.9	19.2	100	359	Not Detected
Vert.	12400	PK	46.1	39.1	9.4	37.9	56.3	73.9	17.6	100	359	Not Detected
Vert.	1441	AV	53.3	24.9	12.6	40.0	50.8	53.9	3.1	158	125	VBW:10Hz
Vert.	2483.5	AV	43.3	27.6	13.4	40.1	36.3	53.9	17.6	117	161	VBW:270Hz
Vert.	4960	AV	36.5	31.9	5.6	40.0	33.8	53.9	20.1	100	359	Not Detected
Vert.	7440	AV	34.6	36.9	7.1	38.7	39.7	53.9	14.2	100	359	Not Detected
Vert.	9920	AV	33.0	38.4	8.0	37.5	41.6	53.9	12.3	100	359	Not Detected
Vert.	12400	AV	33.7	39.1	9.4	37.9	43.9	53.9	10.0	100	359	Not Detected

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter-Distance factor(above 13GHz)) - Gain(Amplifier)

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

*The 3-10th harmonic was not seen so the result was its base noise level.

Distance factor: 13GHz-40GHz 20log(3.0m/1.0m)= 9.5dB

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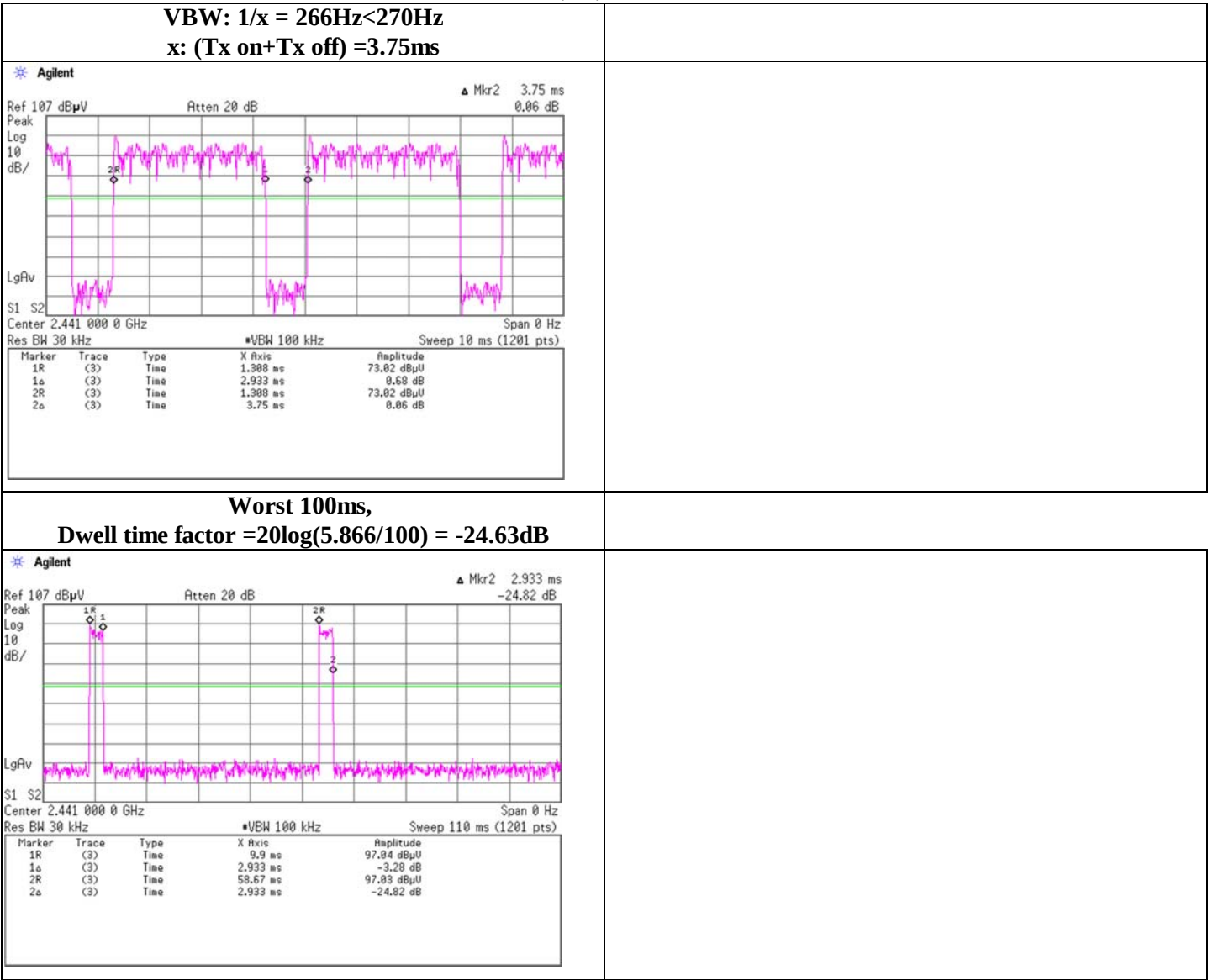
Telephone : +81 463 50 6400

Facsimile : +81 463 50 6401

Spurious emission (Radiated)

DH5

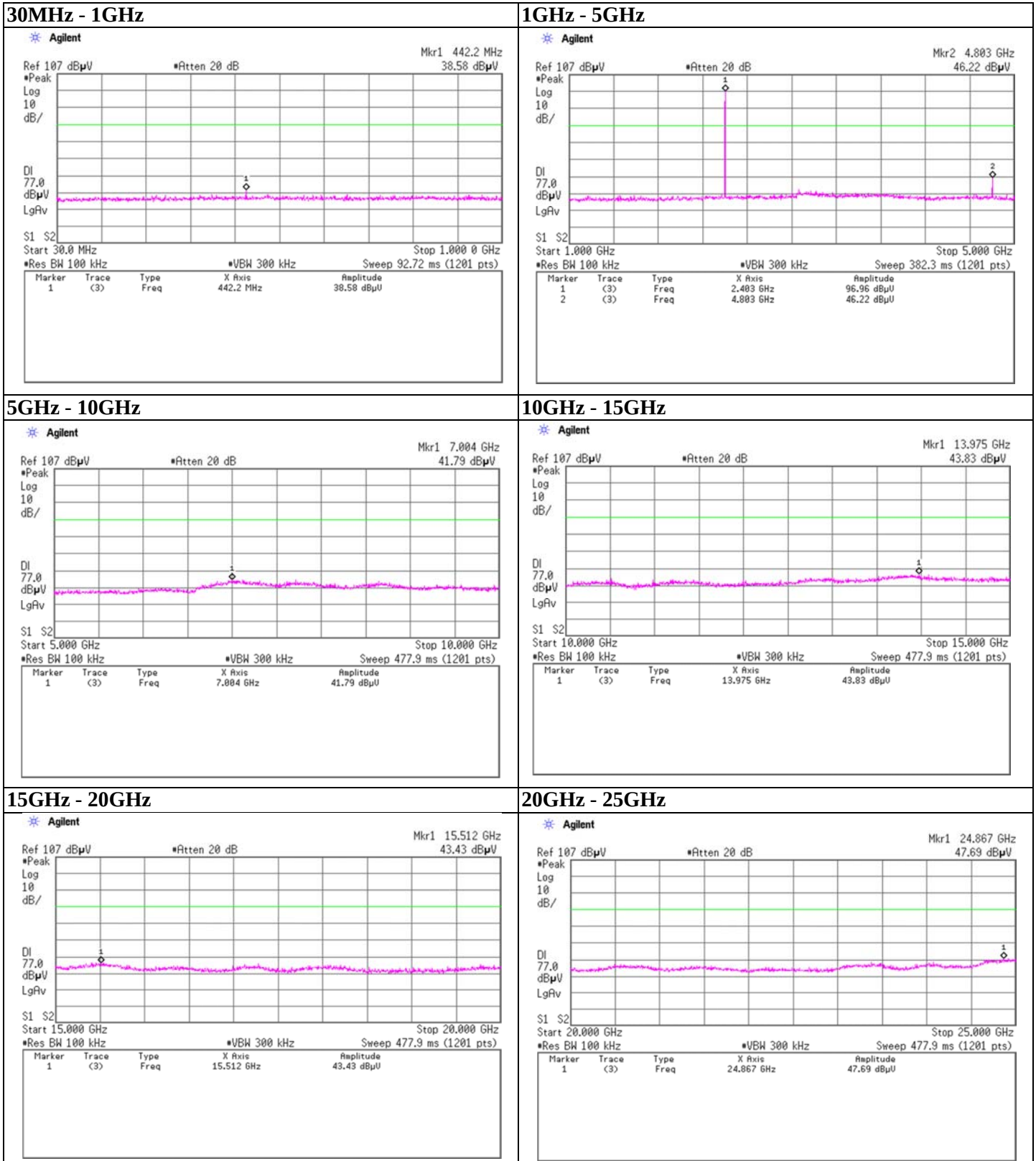
VBW (AV) Calculation



Spurious emission (Conducted)

DH5

Tx, 2402MHz



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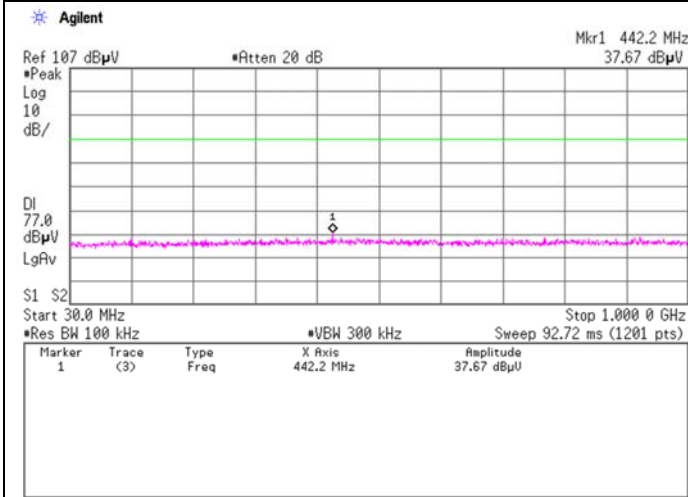
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Telephone : +81 463 50 6400
Facsimile : +81 463 50 6401

Spurious emission (Conducted)

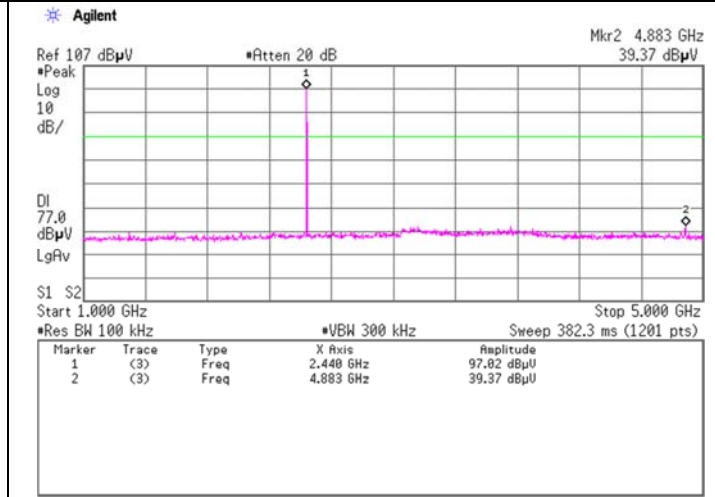
DH5

Tx, 2441MHz

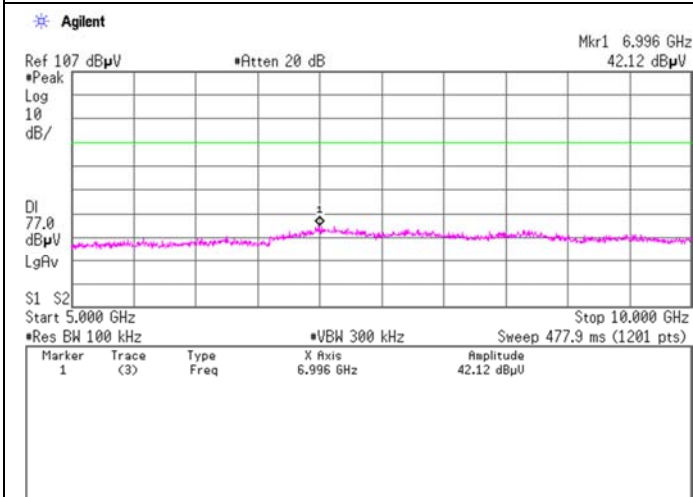
30MHz - 1GHz



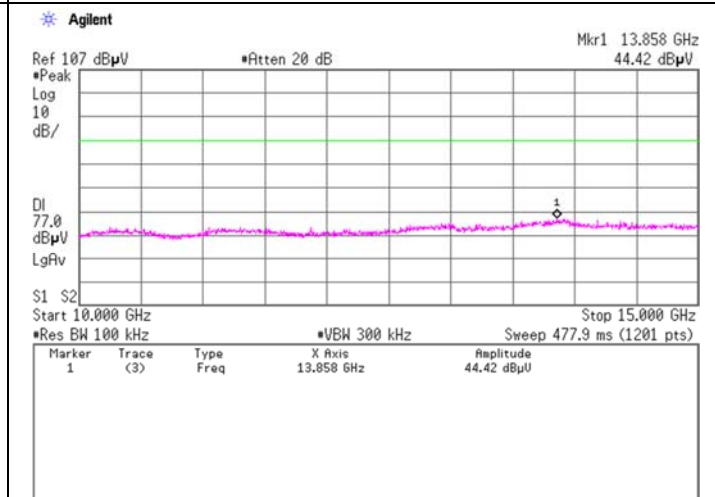
1GHz - 5GHz



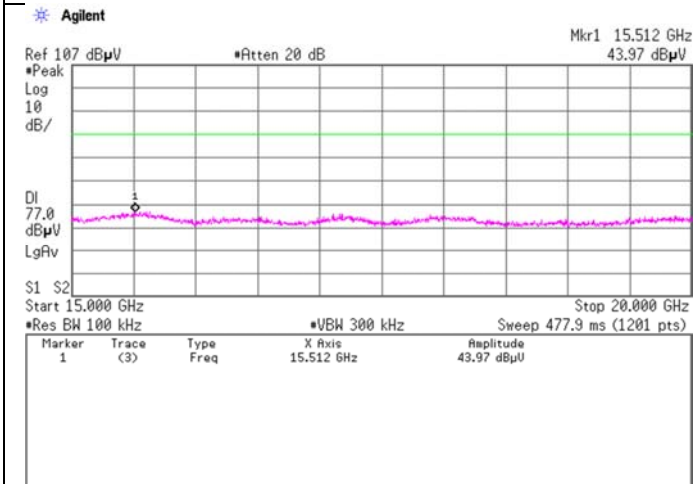
5GHz - 10GHz



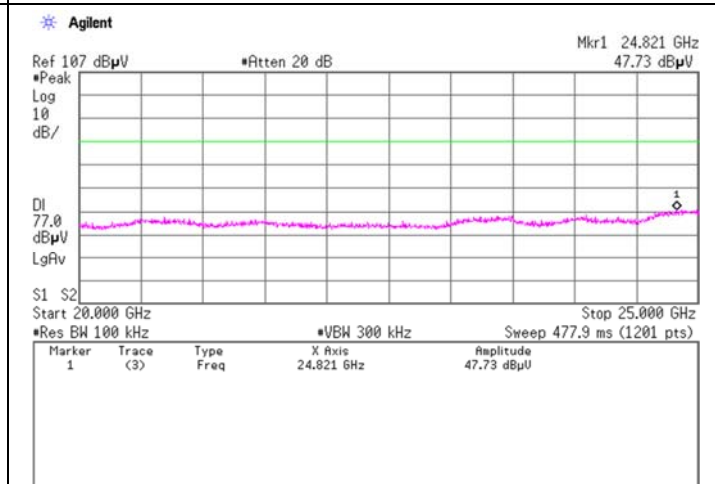
10GHz - 15GHz



15GHz - 20GHz



20GHz - 25GHz



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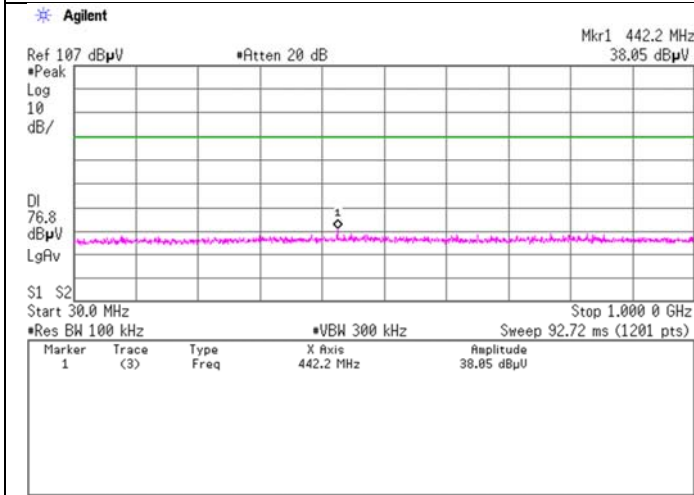
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Telephone : +81 463 50 6400
Facsimile : +81 463 50 6401

Spurious emission (Conducted)

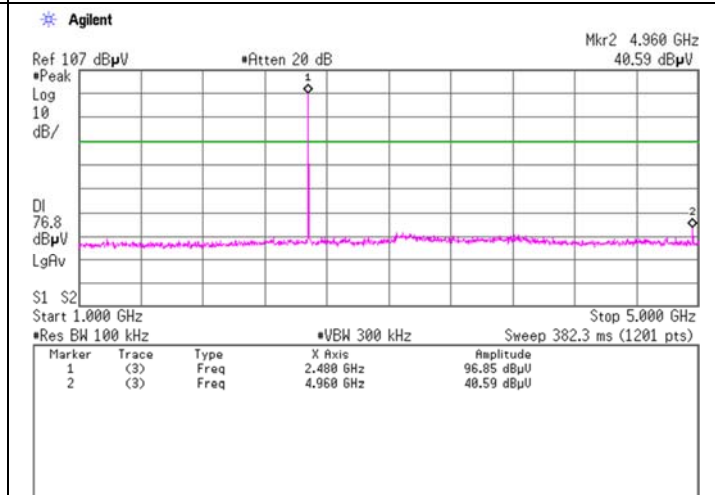
DH5

Tx, 2480MHz

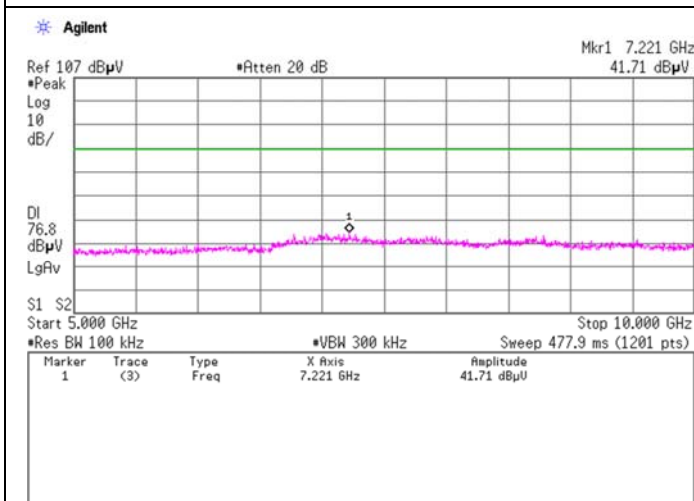
30MHz - 1GHz



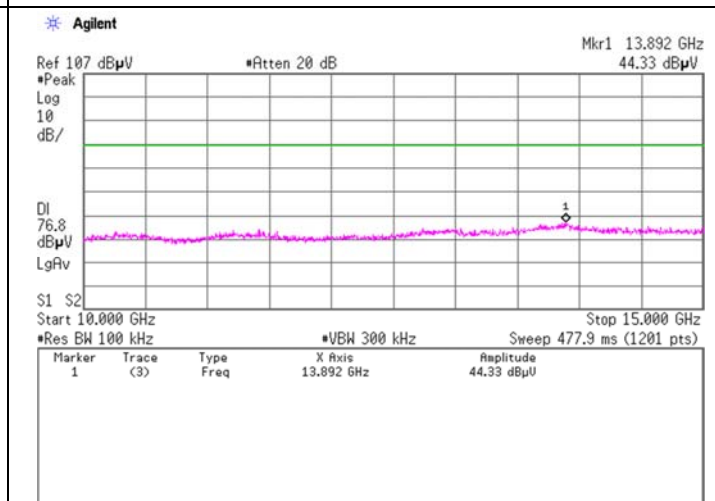
1GHz - 5GHz



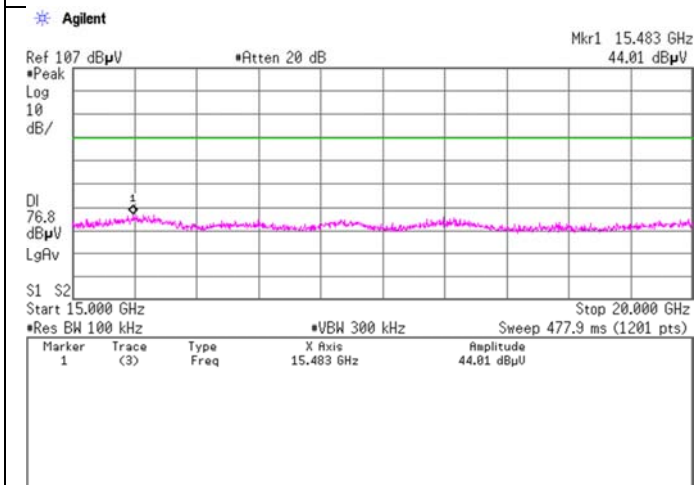
5GHz - 10GHz



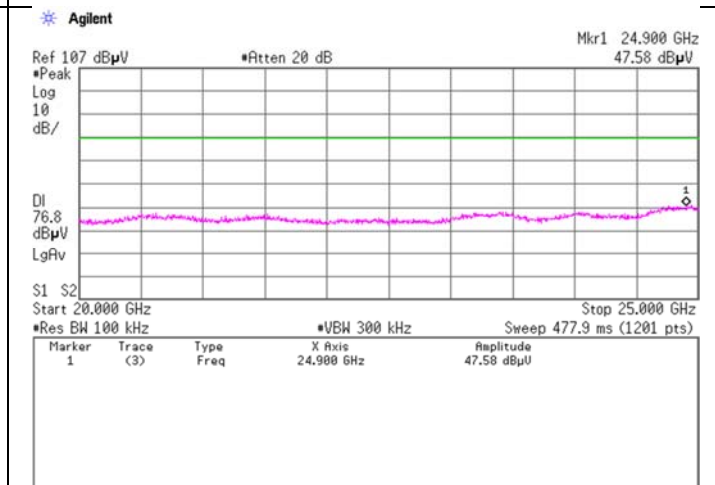
10GHz - 15GHz



15GHz - 20GHz



20GHz - 25GHz



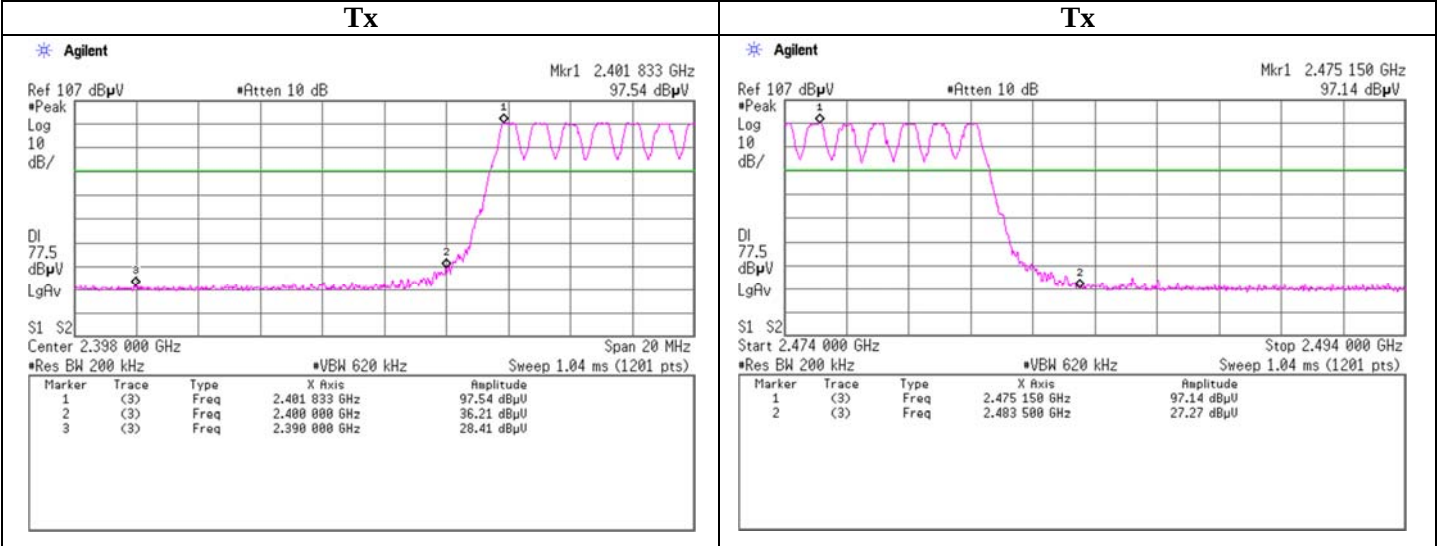
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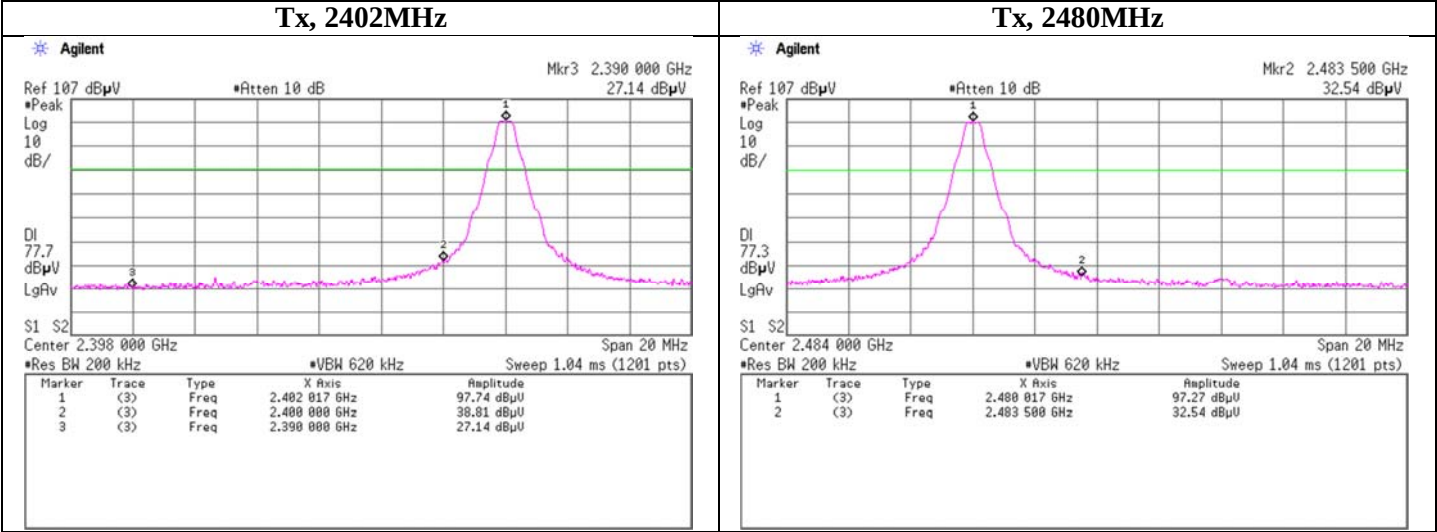
Spurious emission (Conducted)

Band Edge compliance

Hopping ON



Hopping OFF



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99% Occupied Bandwidth

DH5, Hopping Off

Tx, 2402MHz Agilent Ref 107 dBμV •Samp Log 10 dB/ LgRv M1 S2 Center 2.401 977 5 GHz •Res BW 30 kHz •Atten 10 dB •VBW 100 kHz Sweep 10.08 ms (1201 pts) Span 3 MHz Mkr1 2.401 977 5 GHz 94.44 dBμV Occupied Bandwidth 875.6052 kHz Occ BW % Pwr 99.00 % x dB -26.00 dB Transmit Freq Error 26.351 kHz x dB Bandwidth 1.127 MHz*	Tx, 2441MHz Agilent Ref 107 dBμV •Samp Log 10 dB/ LgRv M1 S2 Center 2.441 000 0 GHz •Res BW 30 kHz •Atten 10 dB •VBW 100 kHz Sweep 10.08 ms (1201 pts) Span 3 MHz Mkr1 2.441 000 0 GHz 96.87 dBμV Occupied Bandwidth 878.5314 kHz Occ BW % Pwr 99.00 % x dB -26.00 dB Transmit Freq Error 4.380 kHz x dB Bandwidth 1.132 MHz*
Tx, 2480MHz Agilent Ref 107 dBμV •Samp Log 10 dB/ LgRv M1 S2 Center 2.480 000 0 GHz •Res BW 30 kHz •Atten 10 dB •VBW 100 kHz Sweep 10.08 ms (1201 pts) Span 3 MHz Mkr1 2.480 000 0 GHz 96.67 dBμV Occupied Bandwidth 880.1239 kHz Occ BW % Pwr 99.00 % x dB -26.00 dB Transmit Freq Error 4.815 kHz x dB Bandwidth 1.133 MHz*	Hopping On Agilent Ref 107 dBμV •Samp Log 10 dB/ LgRv M1 S2 Center 2.441 00 GHz •Res BW 1.8 MHz •Atten 10 dB •VBW 6 MHz Sweep 1.04 ms (1201 pts) Span 180 MHz D1 77.5 dBμV Occupied Bandwidth 79.7502 MHz Occ BW % Pwr 99.00 % x dB -26.00 dB Transmit Freq Error 21.739 kHz x dB Bandwidth 83.608 MHz

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APPENDIX 3 Test Instruments

EMI test equipment

Control No.	Instrument	Manufacturer	Model No	Serial No	Test Item	Calibration Date * Interval(month)
SAF-06	Pre Amplifier	TOYO Corporation	TPA0118-36	1440491	RE	2010/03/09 * 12
SCC-G03	Coaxial Cable	Suhner	SUCOFLEX 104A	46499/4 A	RE	2010/04/16 * 12
SCC-G23	Coaxial Cable	Suhner	SUCOFLEX 104	297342/4	RE	2010/05/27 * 12
SHA-03	Horn Antenna	Schwarzbeck	BBHA9120D	9120D-739	RE	2010/08/17 * 12
SOS-05	Humidity Indicator	A&D	AD-5681	4062518	RE	2010/02/09 * 12
STR-03	Test Receiver	Rohde & Schwarz	ES140	100054/040	RE	2010/07/21 * 12
SJM-10	Measure	PROMART	SEN1935	-	RE	-
COTS-SEMI-1	EMI Software	TSJ	TEPTO-DV	-	RE	-
SAT10-04	Attenuator (above 1 GHz)	Agilent	8493C-010	74863	RE	2010/03/05 * 12
SFL-02	Highpass Filter	MICRO-TRONICS	HPM50111	051	RE	2009/12/04 * 12
SAF-03	Pre Amplifier	SONOMA	310N	290213	RE	2010/02/06 * 12
SAT6-03	Attenuator	JFW	50HF-006N	-	RE	2010/02/06 * 12
SBA-03	Biconical Antenna	Schwarzbeck	BBA9106	91032666	RE	2010/10/15 * 12
SCC-C1/C2/C3/C4/C5/C10/SRSE-03	Coaxial Cable&RF Selector	Fujikura/Fujikura/Suhner/Suhner/Suhner/Suhner/TOYO	8D2W/12DSFA/141PE/141PE/141PE/141PE/NS4906	-/0901-271 (RF Selector)	RE	2010/04/02 * 12
SLA-03	Logperiodic Antenna	Schwarzbeck	UHALP9108A	UHALP 9108-A 0901	RE	2010/10/15 * 12
SAEC-03(NSA)	Semi-Anechoic Chamber	TDK	SAEC-03(NSA)	3	RE	2010/09/13 * 12
SHA-04	Horn Antenna	ETS LINDGREN	3160-09	LM3640	RE	2010/03/29 * 12
SCC-G17	Coaxial Cable	Suhner	SUCOFLEX 104A	46291/4 A	RE	2010/03/02 * 12
SAF-08	Pre Amplifier	TOYO Corporation	HAP18-26 W	00000019	RE	2010/03/02 * 12
SSA-01	Spectrum Analyzer	Agilent	N9010A-526	MY48031482	RE	2010/04/05 * 12
SSA-02	Spectrum Analyzer	Agilent	E4448A	MY48250106	AT1,2,3	2010/06/22 * 12
SCC-G11	Coaxial Cable	Suhner	SUCOFLEX 102	31595/2	AT1,2,4	2010/03/31 * 12
SAT10-08	Attenuator	Weinschel	W54-10	-	AT1,2,4	2010/03/05 * 12
SPM-06	Power Meter	Anritsu	ML2495A	0850009	AT3	2010/04/01 * 12
SPSS-03	Power sensor	Anritsu	MA2411B	0917063	AT3	2010/04/01 * 12
SOS-09	Humidity Indicator	A&D	AD-5681	4061484	AT1,2,3,4	2010/02/17 * 12

The expiration date of the calibration is the end of the expired month .
As for some calibrations performed after the tested dates , those test equipment have been controlled by means of an unbroken chains of calibrations .

All equipment is calibrated with traceable calibrations . Each calibration is traceable to the national or international standards .

Test Item :

CE: Conducted emission ,
RE: Radiated emission ,
AT1: Number of Hopping Frequency & Dwell time
AT2: 20 dB bandwidth & Occupied bandwidth
AT3: Peak power density
AT4: Out of band emission (Antenna port conducted)