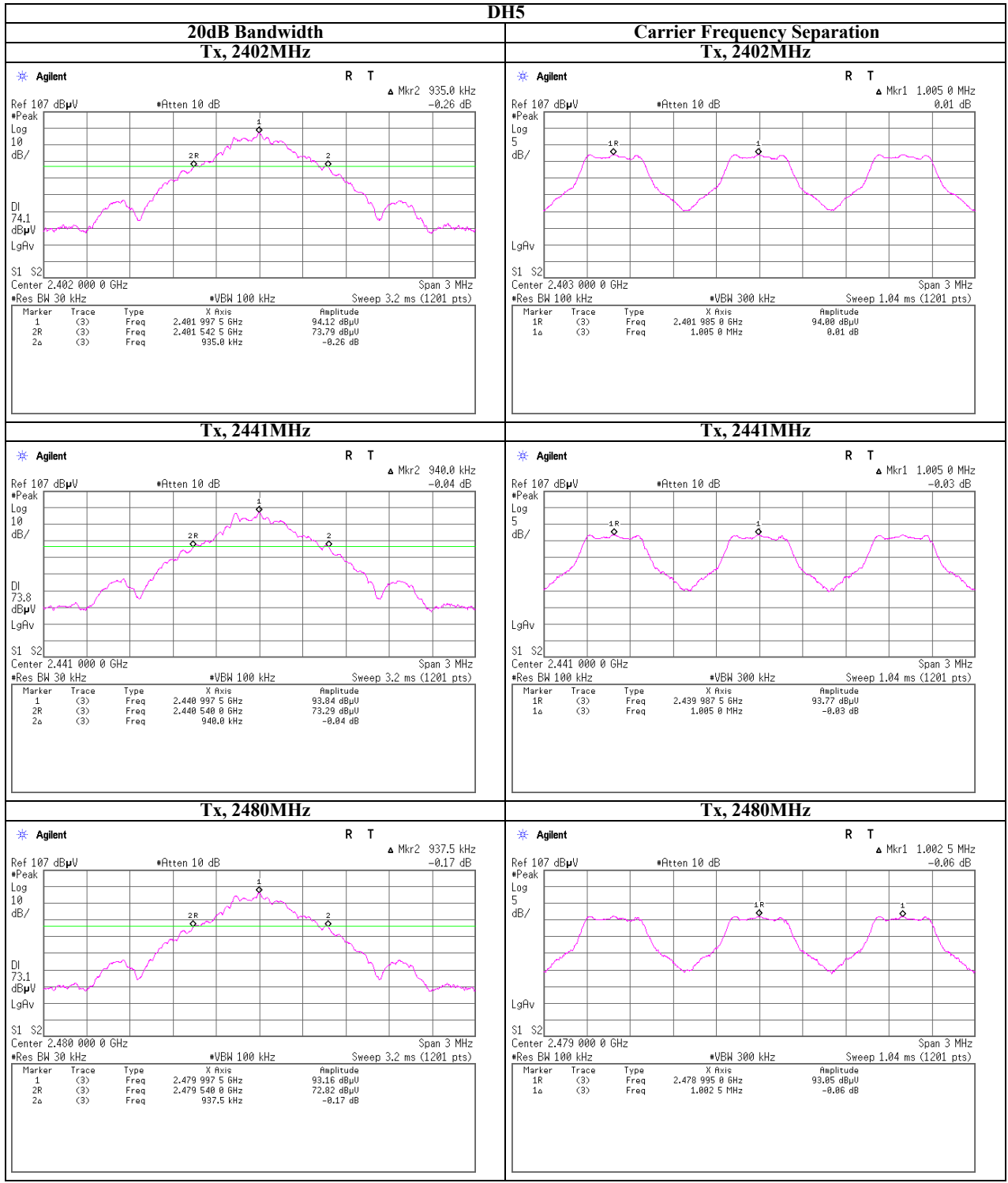

20dB Bandwidth and Carrier Frequency Separation

Test place UL Japan, Inc. Shonan EMC Lab. No.5 Shielded Room
Date 2010/11/17
Temperature / Humidity 24deg.C. , 35%
Engineer Shinichi Takano
Mode Tx

Mode	Freq. [MHz]	20dB Bandwidth [MHz]	Carrier Frequency Separation [MHz]	Limit for Carrier Frequency Separation [MHz]
DH5	2402.0	0.935	1.005	≥ 0.623
DH5	2441.0	0.940	1.005	≥ 0.627
DH5	2480.0	0.938	1.003	≥ 0.625
3DH5	2402.0	1.280	1.005	≥ 0.853
3DH5	2441.0	1.285	1.003	≥ 0.857
3DH5	2480.0	1.288	1.003	≥ 0.858
Inquiry	2441.0	0.810	2.004	≥ 0.540

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

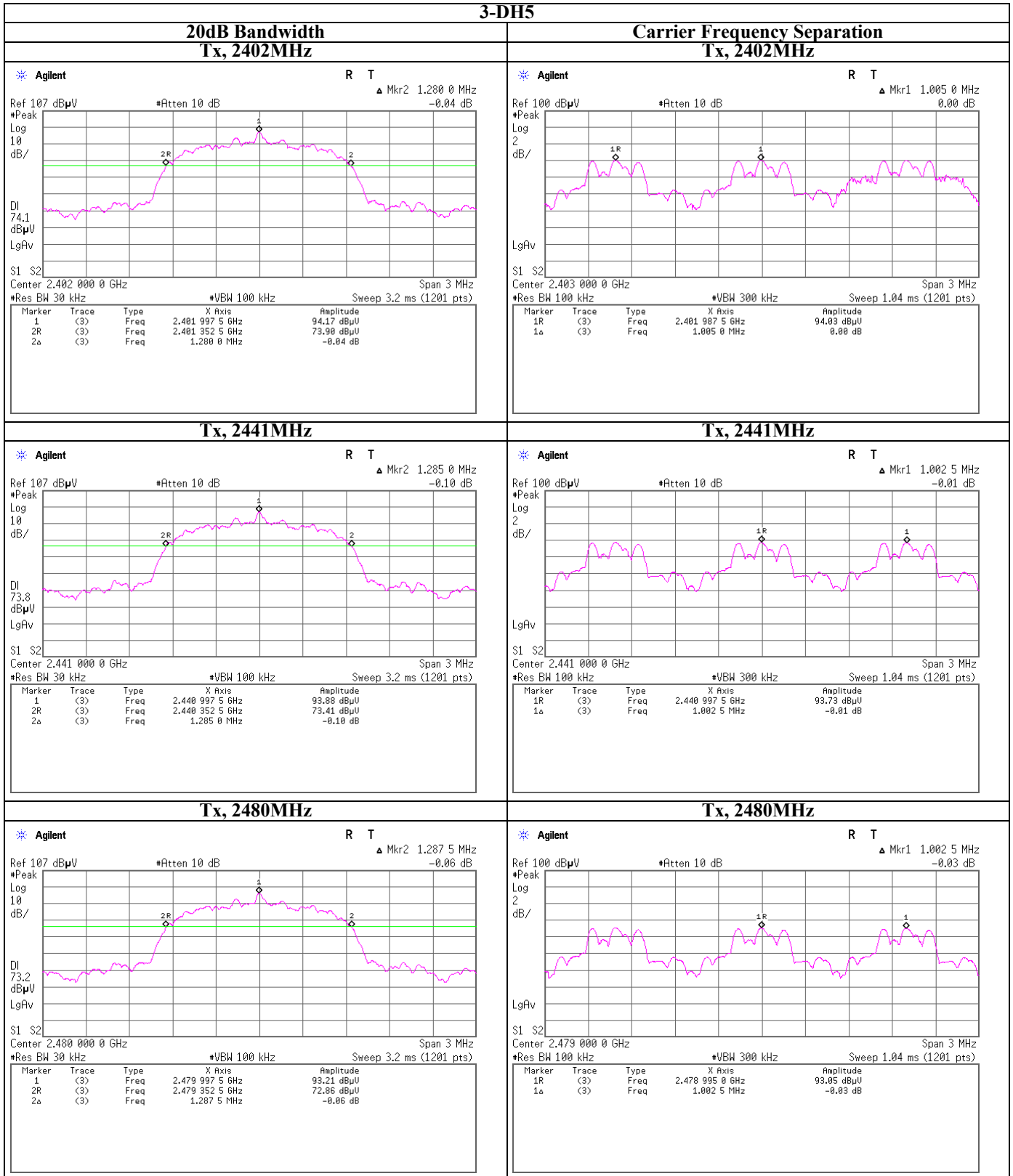
20dB Bandwidth and Carrier Frequency Separation



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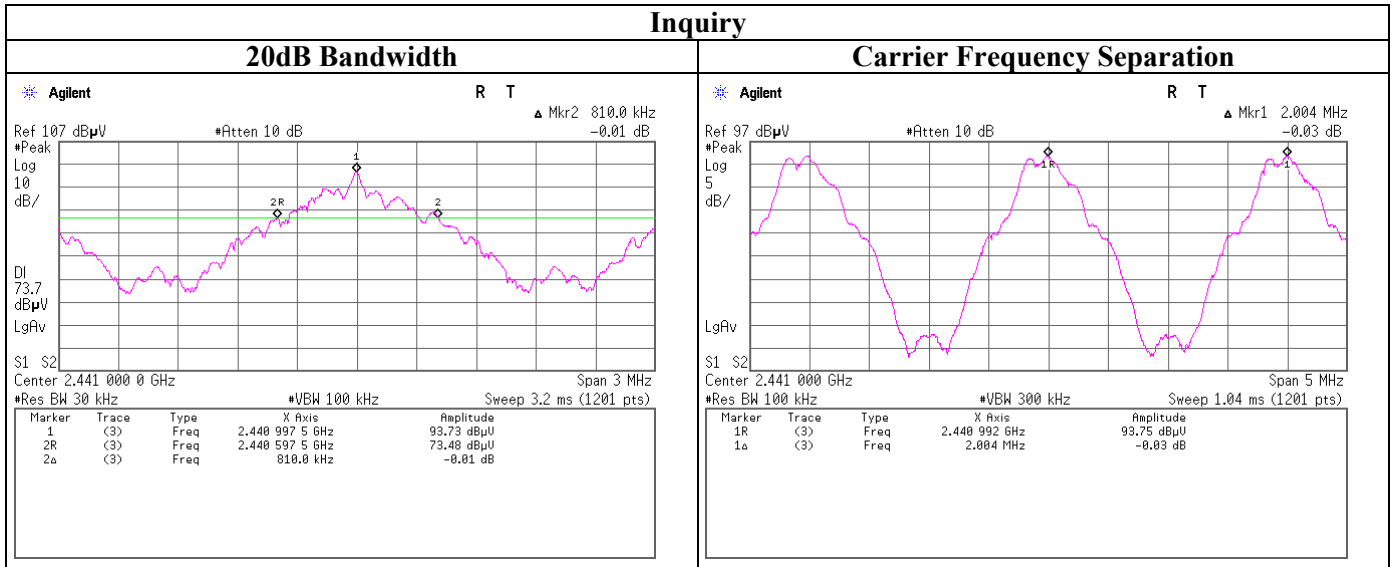
20dB Bandwidth and Carrier Frequency Separation



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20dB Bandwidth and Carrier Frequency Separation



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Number of Hopping Frequency (Conducted)

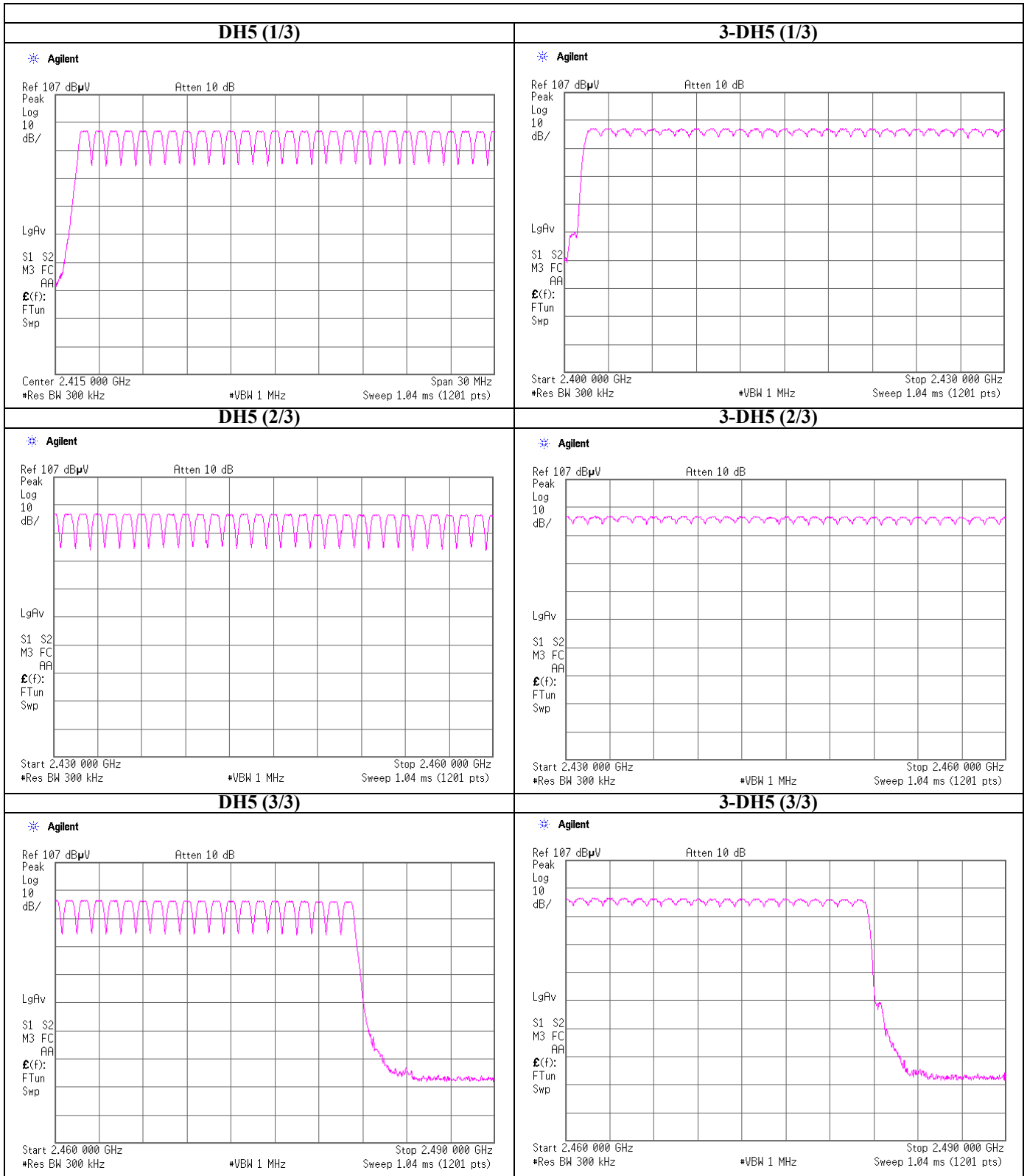
Test place UL Japan, Inc. Shonan EMC Lab. No.5 Shielded Room
Date 2010/11/18
Temperature / Humidity 24deg.C. ,30%
Engineer Wataru Kojima
Mode Tx,

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

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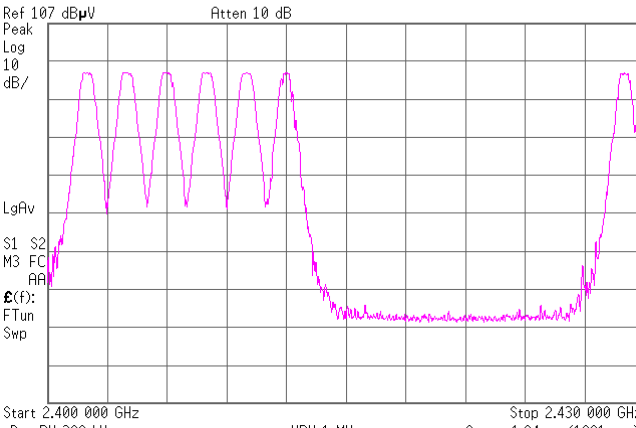
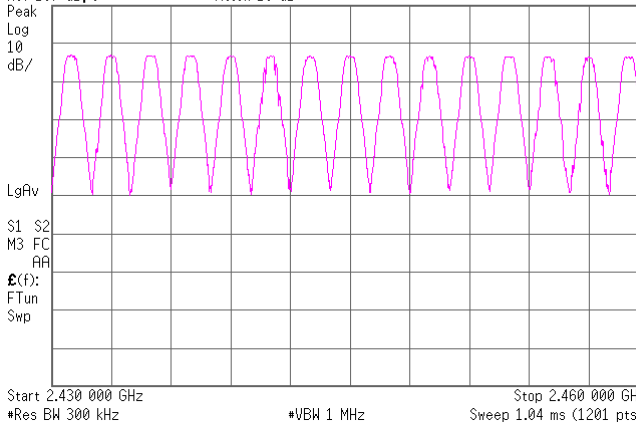
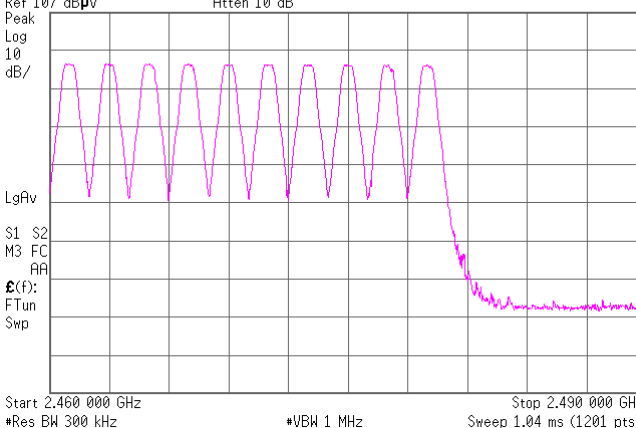
Number of Hopping Frequency



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Number of Hopping Frequency

Inquiry (1/3)	
<p style="margin: 0;">* Agilent</p>  <p style="font-size: small; margin: 0;">Ref 107 dBµV Atten 10 dB</p> <p style="font-size: x-small; margin: 0;">Peak Log 10 dB/</p> <p style="font-size: x-small; margin: 0;">LgAv</p> <p style="font-size: x-small; margin: 0;">S1 S2 M3 FC AA</p> <p style="font-size: x-small; margin: 0;">E(f): FTun Swp</p> <p style="font-size: x-small; margin: 0;">Start 2.400 000 GHz Stop 2.430 000 GHz *Res BW 300 kHz *VBW 1 MHz Sweep 1.04 ms (1201 pts)</p>	
Inquiry (2/3)	
<p style="margin: 0;">* Agilent</p>  <p style="font-size: small; margin: 0;">Ref 107 dBµV Atten 10 dB</p> <p style="font-size: x-small; margin: 0;">Peak Log 10 dB/</p> <p style="font-size: x-small; margin: 0;">LgAv</p> <p style="font-size: x-small; margin: 0;">S1 S2 M3 FC AA</p> <p style="font-size: x-small; margin: 0;">E(f): FTun Swp</p> <p style="font-size: x-small; margin: 0;">Start 2.430 000 GHz Stop 2.460 000 GHz *Res BW 300 kHz *VBW 1 MHz Sweep 1.04 ms (1201 pts)</p>	
Inquiry (3/3)	
<p style="margin: 0;">* Agilent</p>  <p style="font-size: small; margin: 0;">Ref 107 dBµV Atten 10 dB</p> <p style="font-size: x-small; margin: 0;">Peak Log 10 dB/</p> <p style="font-size: x-small; margin: 0;">LgAv</p> <p style="font-size: x-small; margin: 0;">S1 S2 M3 FC AA</p> <p style="font-size: x-small; margin: 0;">E(f): FTun Swp</p> <p style="font-size: x-small; margin: 0;">Start 2.460 000 GHz Stop 2.490 000 GHz *Res BW 300 kHz *VBW 1 MHz Sweep 1.04 ms (1201 pts)</p>	

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Dwell Time (Conducted)

Test place UL Japan, Inc. Shonan EMC Lab. No.5 Shielded Room
 Date 2010/11/18
 Temperature / Humidity 24deg.C. ,30%
 Engineer Wataru Kojima
 Mode Tx,

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	Limit
			[msec]	[msec]
DH1	48.6 times / 5 sec. x 31.6 sec. = 308 times	0.455	140	400
DH3	25.0 times / 5 sec. x 31.6 sec. = 158 times	1.710	270	400
DH5	17.0 times / 5 sec. x 31.6 sec. = 108 times	2.963	320	400
3DH1	49.0 times / 5 sec. x 31.6 sec. = 310 times	0.450	139	400
3DH3	24.0 times / 5 sec. x 31.6 sec. = 152 times	1.703	259	400
3DH5	18.2 times / 5 sec. x 31.6 sec. = 116 times	2.952	342	400
Inquiry	100.0 times / 1 sec. x 12.8 sec. = 1280 times	0.144	184	400

Sample Calculation

Result = Number of transmission x Length of transmission time

*Average data of 5 tests.(except Inquiry)

Mode	Sampling [times]					Average [times]
	1	2	3	4	5	
DH1	50	49	48	48	48	48.6
DH3	27	22	25	22	29	25
DH5	16	15	20	17	17	17
3DH1	50	49	49	49	48	49
3DH3	28	23	21	25	23	24
3DH5	20	17	17	21	16	18.2

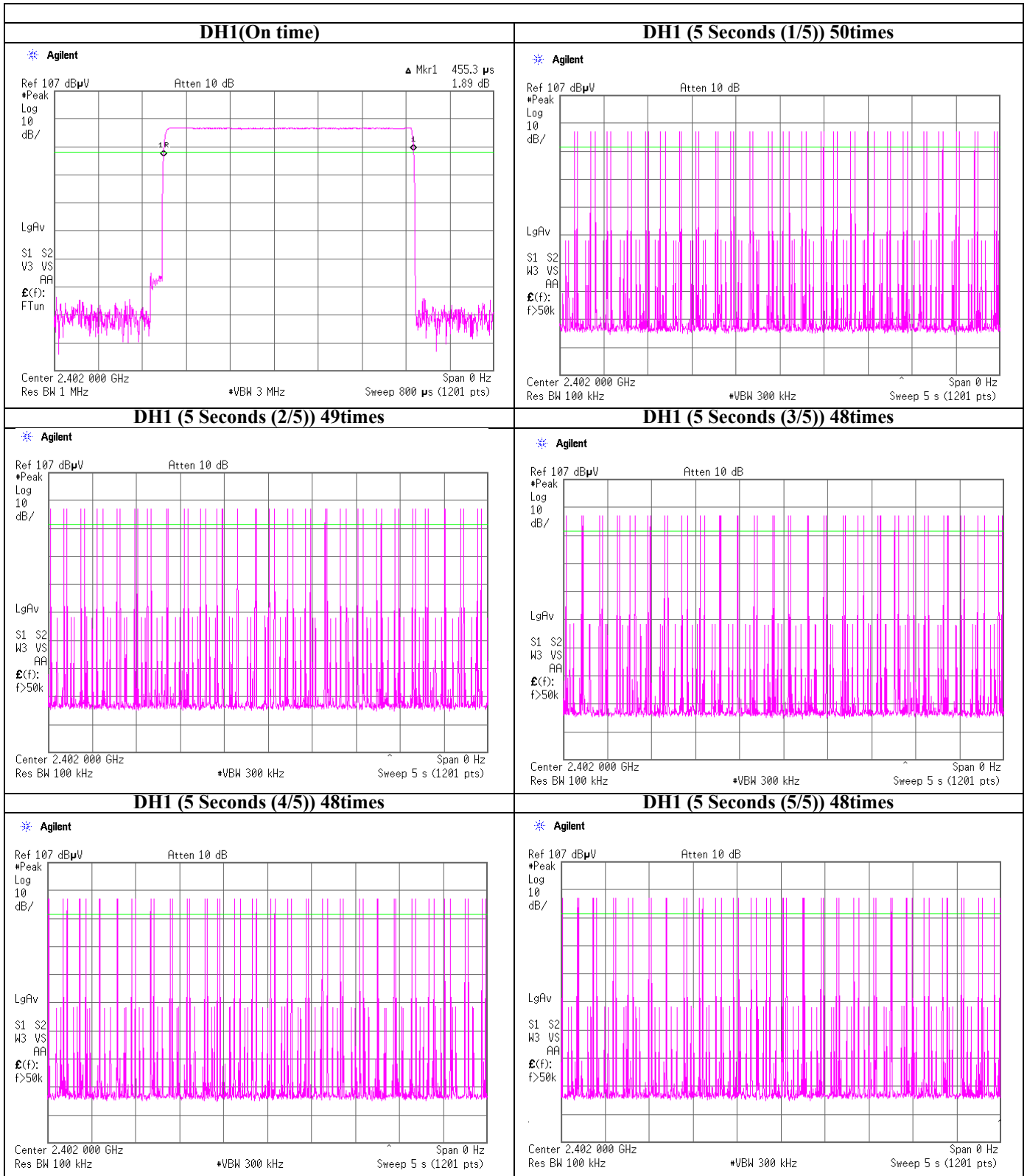
Sample Calculation

Average= Summation(Sampling 1 to 5) / 5

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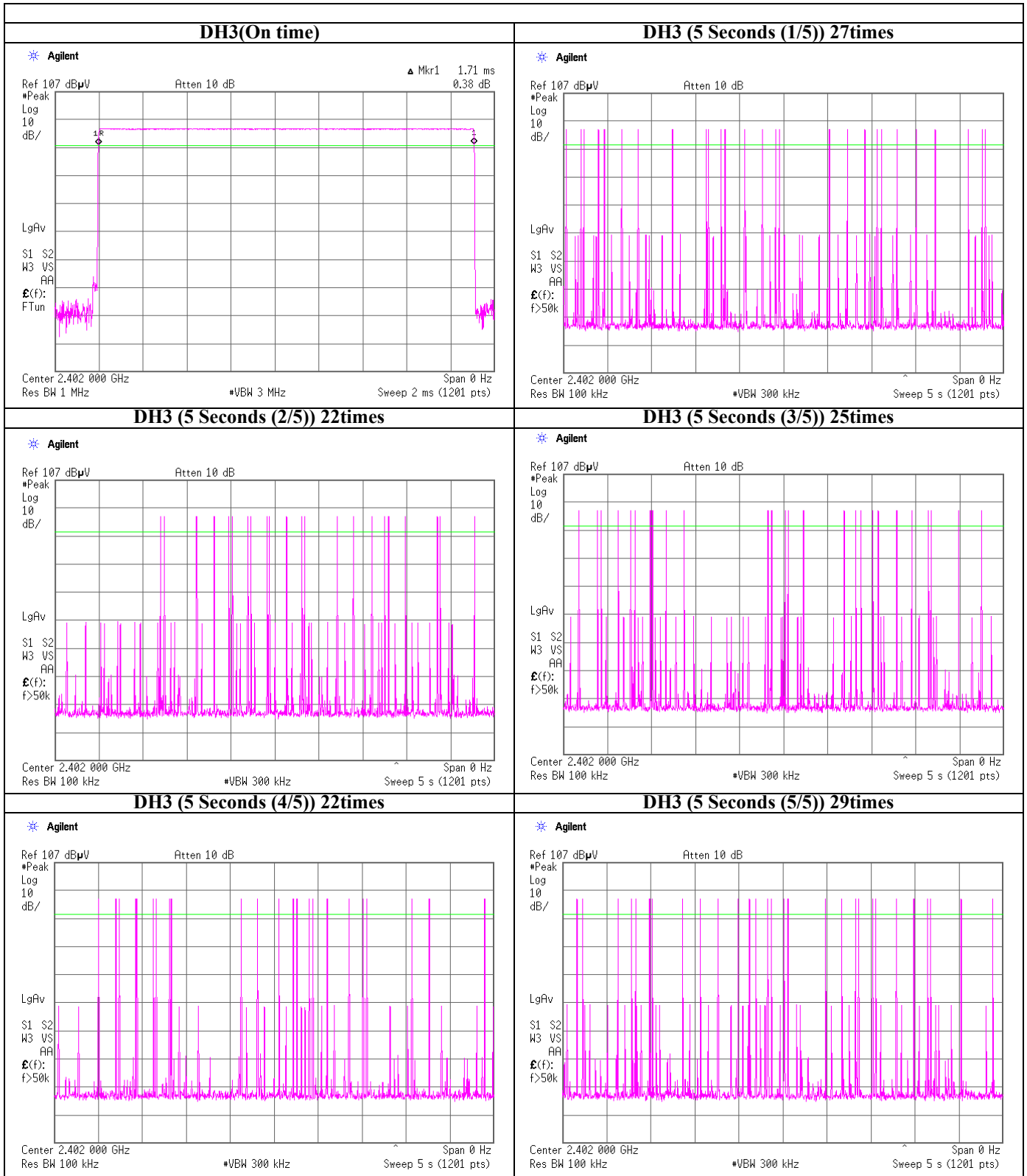
Dwell time



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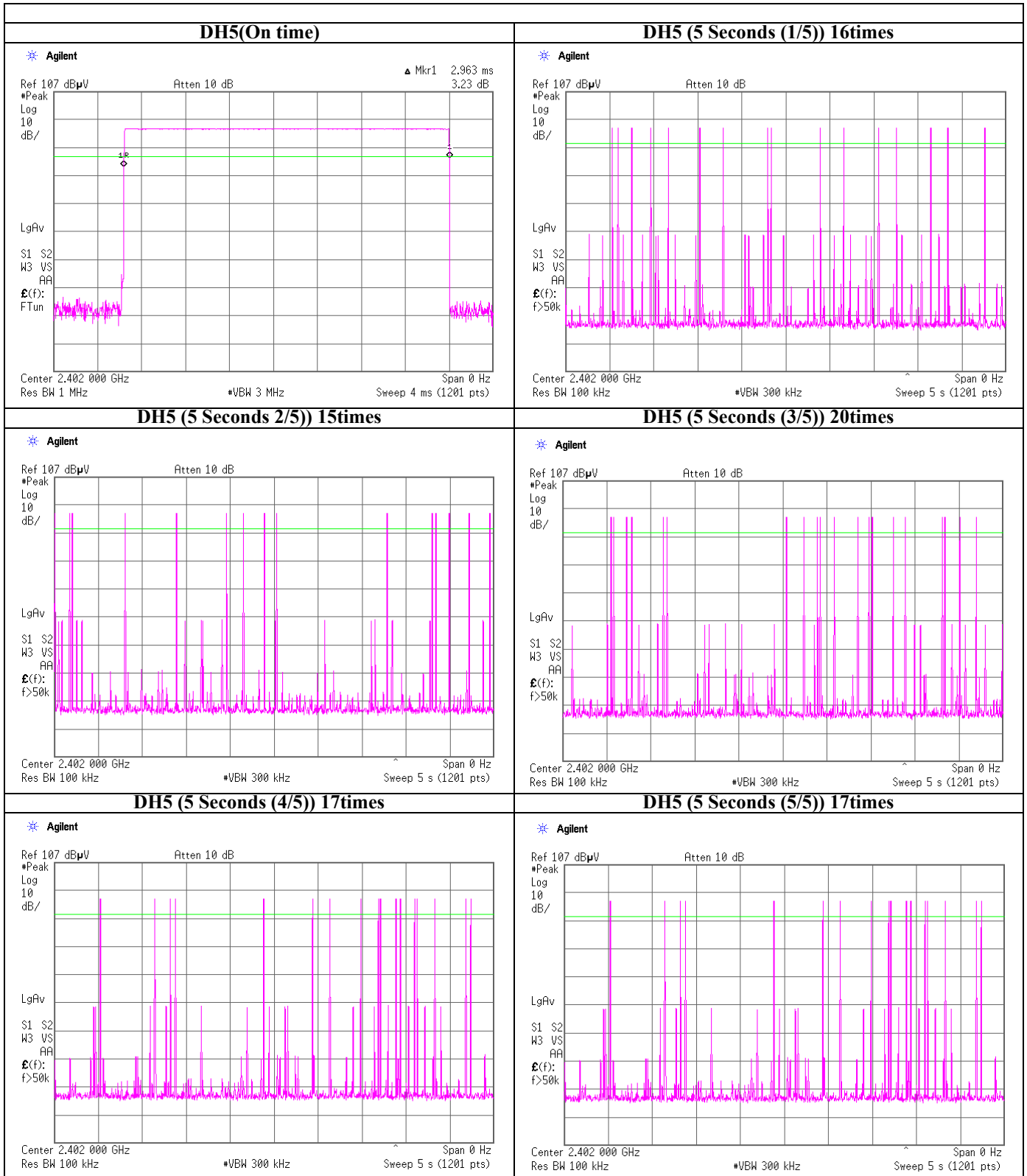
Dwell time



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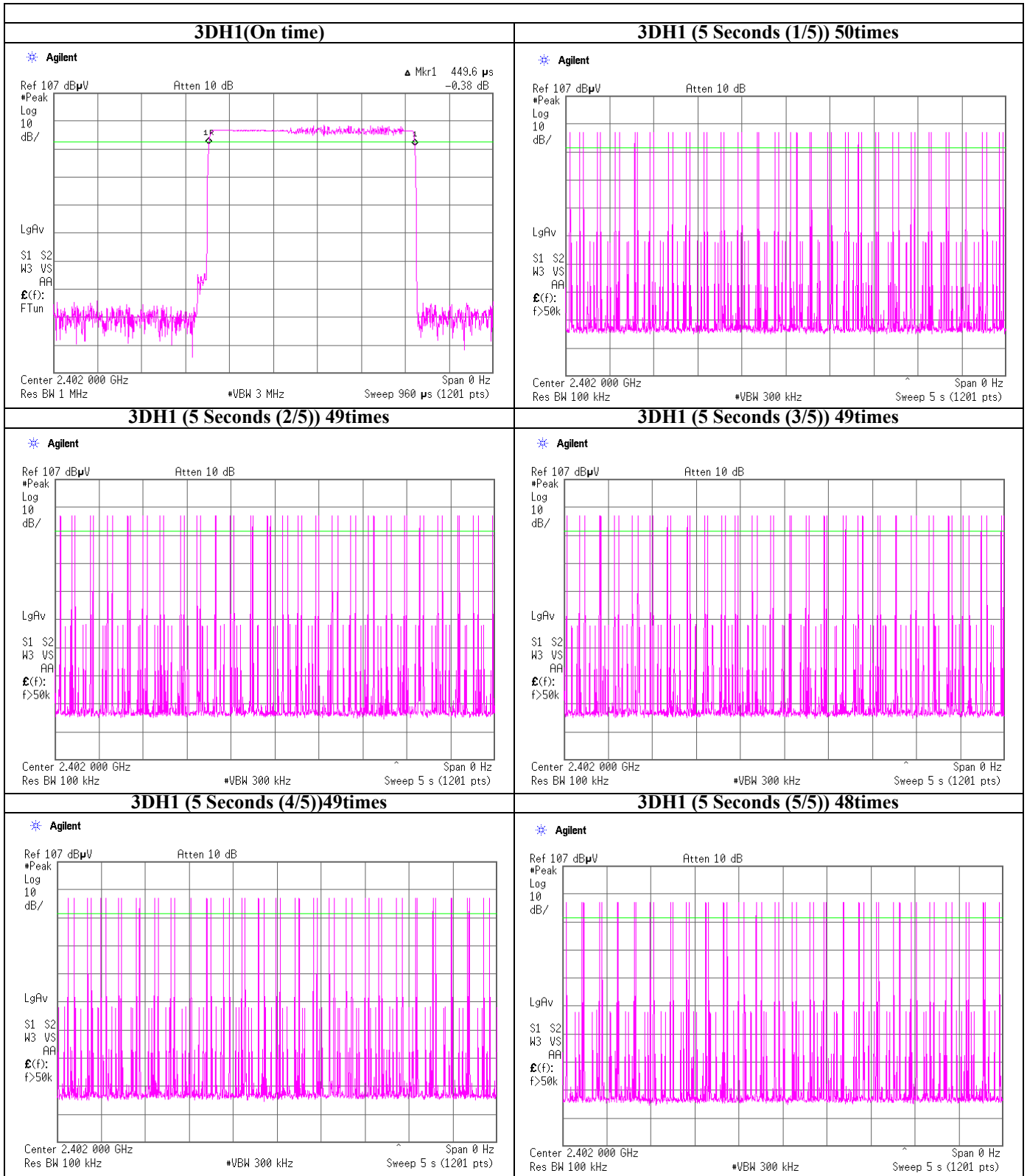
Dwell time



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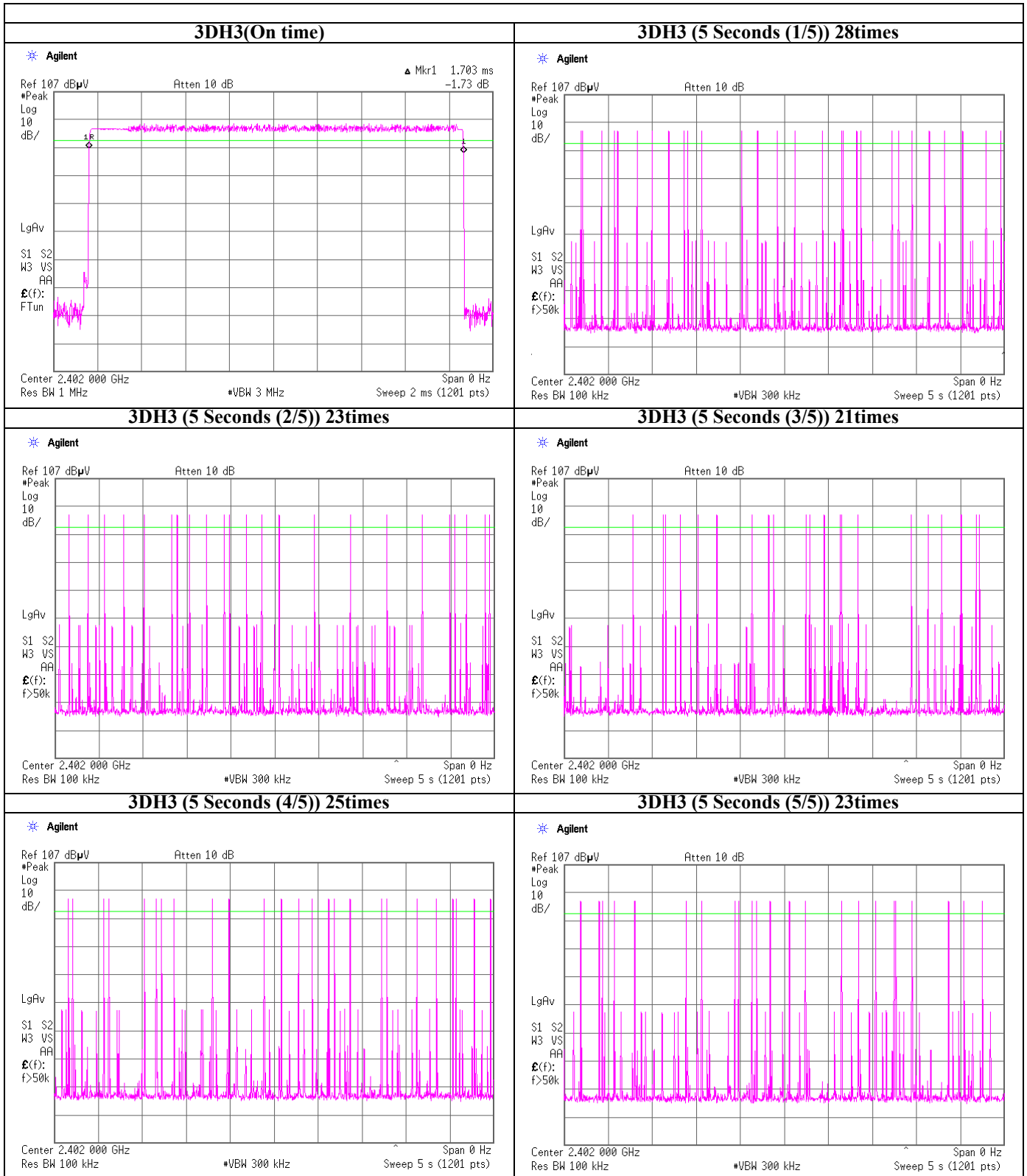
Dwell time



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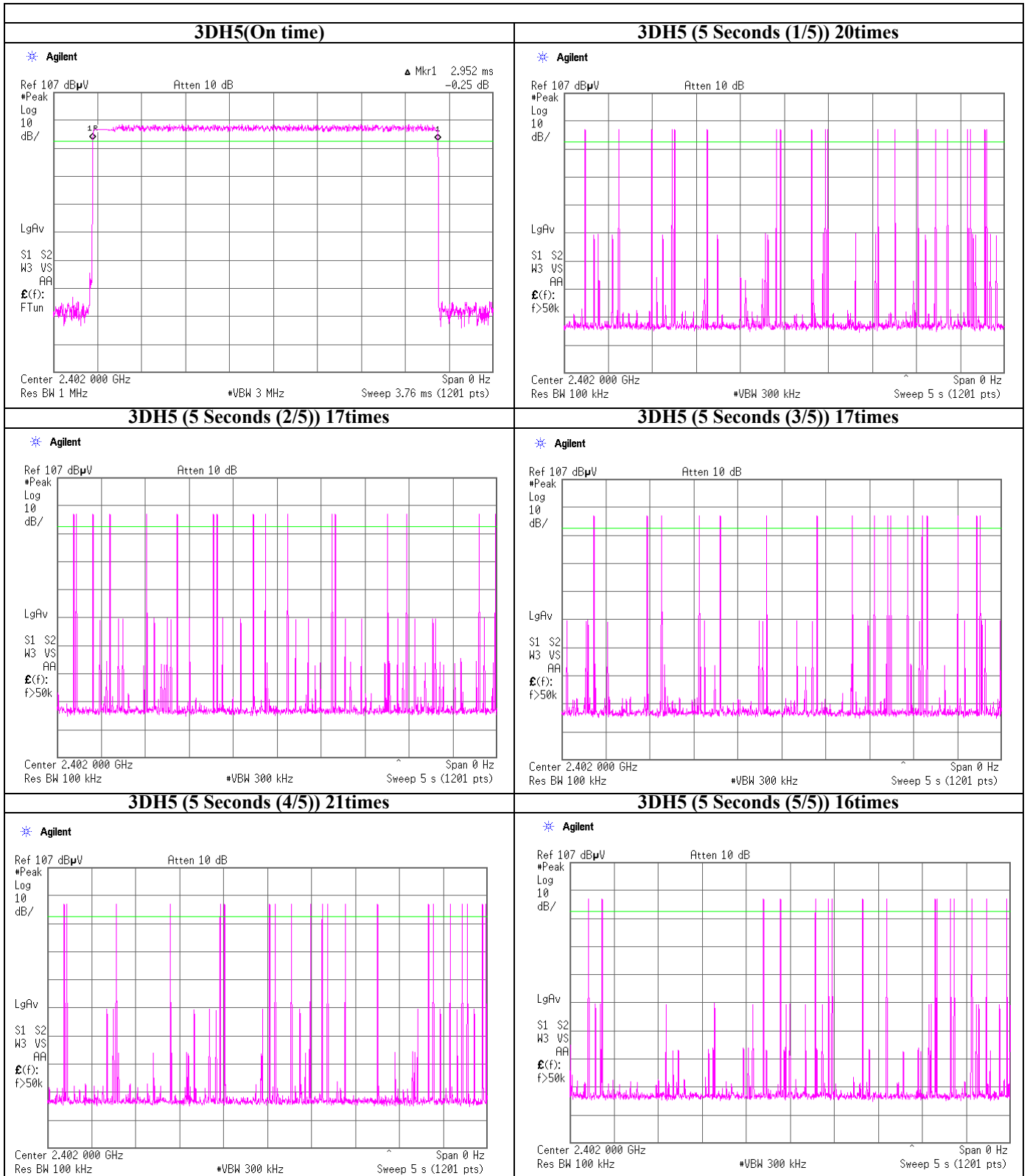
Dwell time



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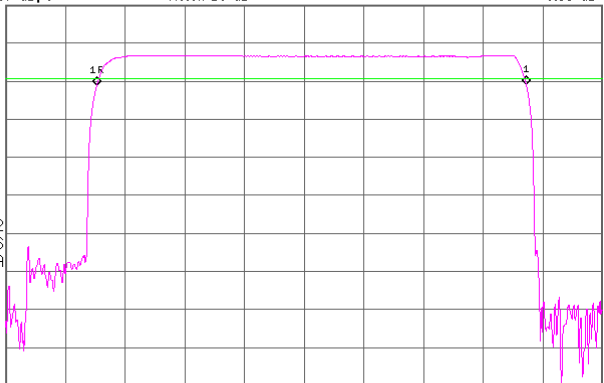
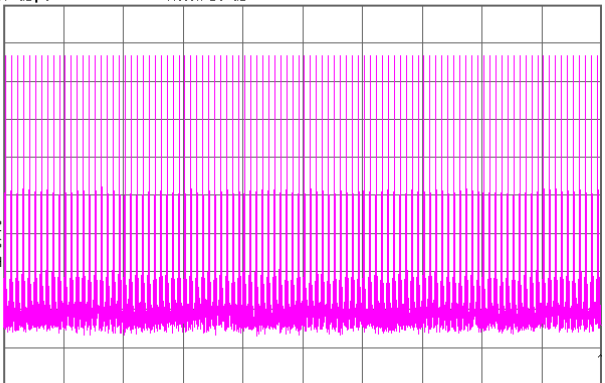
Dwell time



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Dwell time

Inquiry (1/2)	Inquiry (2/2)
<p>Agilent</p> <p>Ref 107 dBμV Atten 10 dB Δ Mkr1 143.8 μs #Peak 0.33 dB</p>  <p>Center 2.402 000 GHz #VBW 3 MHz Sweep 200 μs (1201 pts)</p>	<p>Agilent</p> <p>Ref 107 dBμV Atten 10 dB</p>  <p>Center 2.402 000 GHz #VBW 300 kHz Sweep 1 s (1201 pts)</p>

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Shonan EMC Lab.

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Peak Output Power (Conducted)

Test place : UL Japan, Inc. Shonan EMC Lab. No.5 Shielded Room
 Date : 2010/11/17
 Temperature / Humidity : 24deg.C. , 35%
 Engineer : Shinichi Takano
 Mode : Tx,

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	-12.74	1.88	9.88	-0.98	0.80	20.97	125	21.95
Mid	2441.0	-13.01	1.89	9.88	-1.25	0.75	20.97	125	22.22
High	2480.0	-13.58	1.89	9.88	-1.81	0.66	20.97	125	22.78

EDR (2-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	-11.13	1.88	9.88	0.63	1.16	20.97	125	20.34
Mid	2441.0	-11.38	1.89	9.88	0.38	1.09	20.97	125	20.59
High	2480.0	-12.02	1.89	9.88	-0.25	0.94	20.97	125	21.22

EDR (3-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	-10.70	1.88	9.88	1.06	1.28	20.97	125	19.91
Mid	2441.0	-10.98	1.89	9.88	0.78	1.20	20.97	125	20.19
High	2480.0	-11.62	1.89	9.88	0.15	1.03	20.97	125	20.82

Sample Calculation:

Result = Reading + Cable Loss (supplied by customer) + Atten. 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.

UL Japan, Inc.
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Radiated Emission

Test place : UL Japan, Inc. Shonan EMC Lab. No.1 Semi Anechoic Chamber
 Date : 2010/11/18 2010/11/19
 Temperature / Humidity : 24deg.C. , 31% 22deg.C. , 34%
 Engineer : Shinichi Takano 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.	154.831	QP	42.7	15.1	8.4	31.8	34.4	43.5	9.1	200	92	
Hori.	309.660	QP	50.7	14.3	6.6	31.8	39.8	46.0	6.2	100	282	
Hori.	335.464	QP	52.7	15.0	6.8	31.7	42.8	46.0	3.2	100	67	
Hori.	438.677	QP	44.8	17.2	7.4	31.9	37.5	46.0	8.5	211	359	
Hori.	1920.142	PK	51.6	26.7	13.0	40.0	51.3	73.9	22.6	113	244	
Hori.	2390.000	PK	49.0	27.1	13.3	39.8	49.6	73.9	24.3	114	310	
Hori.	2400.000	PK	58.0	27.1	13.5	39.8	58.8	73.9	15.1	114	310	
Hori.	4804.000	PK	51.7	30.8	5.4	40.2	47.7	73.9	26.2	102	183	
Hori.	7206.000	PK	47.0	36.0	6.7	38.9	50.8	73.9	23.1	100	0	
Hori.	9608.000	PK	46.4	38.3	7.7	38.8	53.6	73.9	20.3	100	0	
Hori.	12010.000	PK	46.1	39.1	9.0	38.7	55.5	73.9	18.4	100	0	
Hori.	1920.142	AV	43.6	26.7	13.0	40.0	43.3	53.9	10.6	113	244	VBW:10Hz
Vert.	84.687	QP	44.1	7.4	7.7	31.8	27.4	40.0	12.6	126	351	
Vert.	95.713	QP	45.2	9.8	7.8	31.8	31.0	43.5	12.5	100	355	
Vert.	129.025	QP	41.5	13.8	8.2	31.8	31.7	43.5	11.8	100	355	
Vert.	335.463	QP	43.5	15.0	6.8	31.7	33.6	46.0	12.4	107	17	
Vert.	1920.144	PK	50.8	26.7	13.0	40.0	50.5	73.9	23.4	129	282	
Vert.	2390.000	PK	46.0	27.1	13.3	39.8	46.6	73.9	27.3	100	258	
Vert.	2400.000	PK	50.7	27.1	13.5	39.8	51.5	73.9	22.4	100	258	
Vert.	4804.000	PK	51.8	30.8	5.4	40.2	47.8	73.9	26.1	115	149	
Vert.	7206.000	PK	46.6	36.0	6.7	38.9	50.4	73.9	23.5	100	0	
Vert.	9608.000	PK	45.2	38.3	7.7	38.8	52.4	73.9	21.5	100	0	
Vert.	12010.000	PK	46.4	39.1	9.0	38.7	55.8	73.9	18.1	100	0	
Vert.	1920.144	AV	41.3	26.7	13.0	40.0	41.0	53.9	12.9	129	282	VBW:10Hz

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter) - Gain(Amplifier)

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

*The 3-5th harmonic was not seen so the result was its base noise level.

Dwell time factor relaxation

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant Factor [dB/m]	Loss [dB]	Gain [dB]	Dwell Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori.	2390.000	AV	36.3	27.1	13.3	39.8	-24.7	12.2	53.9	41.7	VBW:300Hz
Hori.	2400.000	AV	41.9	27.1	13.5	39.8	-24.7	18.0	53.9	35.9	VBW:300Hz
Hori.	4804.000	AV	44.2	30.8	5.4	40.2	-24.7	15.5	53.9	38.4	VBW:300Hz
Hori.	7206.000	AV	35.5	36.0	6.7	38.9	-24.7	14.6	53.9	39.3	VBW:300Hz
Hori.	9608.000	AV	34.1	38.3	7.7	38.8	-24.7	16.6	53.9	37.3	VBW:300Hz
Hori.	12010.000	AV	34.4	39.1	9.0	38.7	-24.7	19.1	53.9	34.8	VBW:300Hz
Vert.	2390.000	AV	34.5	27.1	13.3	39.8	-24.7	10.4	53.9	43.5	VBW:300Hz
Vert.	2400.000	AV	36.6	27.1	13.5	39.8	-24.7	12.7	53.9	41.2	VBW:300Hz
Vert.	4804.000	AV	45.2	30.8	5.4	40.2	-24.7	16.5	53.9	37.4	VBW:300Hz
Vert.	7206.000	AV	35.8	36.0	6.7	38.9	-24.7	14.9	53.9	39.0	VBW:300Hz
Vert.	9608.000	AV	33.9	38.3	7.7	38.8	-24.7	16.4	53.9	37.5	VBW:300Hz
Vert.	12010.000	AV	34.4	39.1	9.0	38.7	-24.7	19.1	53.9	34.8	VBW:300Hz

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter)

- Gain(Amplifier) + Dwell time factor (Refer to dwell time data sheet)

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

*The 3-5th harmonic was not seen so the result was its base noise level.

Radiated Emission

Test place : UL Japan, Inc. Shonan EMC Lab. No.1 Semi Anechoic Chamber
 Date : 2010/11/18 2010/11/19
 Temperature / Humidity : 24deg.C. , 31% 22deg.C. , 34%
 Engineer : Shinichi Takano Shinichi Takano
 Mode : Tx, 2441 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.	103.215	QP	47.5	11.2	7.9	31.8	34.8	43.5	8.7	300	114	
Hori.	154.832	QP	43.8	15.1	8.4	31.8	35.5	43.5	8.0	200	84	
Hori.	309.650	QP	52.2	14.3	6.6	31.8	41.3	46.0	4.7	100	276	
Hori.	335.464	QP	49.6	15.0	6.8	31.7	39.7	46.0	6.3	100	67	
Hori.	438.679	QP	45.6	17.2	7.4	31.9	38.3	46.0	7.7	100	352	
Hori.	1920.163	PK	51.2	26.7	13.0	40.0	50.9	73.9	23.0	132	159	
Hori.	4882.000	PK	50.1	31.1	5.5	40.1	46.6	73.9	27.3	100	312	
Hori.	7323.000	PK	46.8	36.3	6.9	39.0	51.0	73.9	22.9	100	0	
Hori.	9764.000	PK	44.9	38.4	7.8	39.1	52.0	73.9	21.9	100	0	
Hori.	12205.000	PK	45.4	39.2	9.2	38.7	55.1	73.9	18.8	100	0	
Hori.	1920.163	AV	44.9	26.7	13.0	40.0	44.6	53.9	9.3	132	159	VBW:10Hz
Vert.	84.359	QP	44.4	7.4	7.7	31.8	27.7	40.0	12.3	126	359	
Vert.	103.224	QP	45.1	11.2	7.9	31.8	32.4	43.5	11.1	152	14	
Vert.	335.458	QP	41.6	15.0	6.8	31.7	31.7	46.0	14.3	119	15	
Vert.	1920.170	PK	48.0	26.7	13.0	40.0	47.7	73.9	26.2	100	311	
Vert.	4882.000	PK	50.3	31.1	5.5	40.1	46.8	73.9	27.1	100	195	
Vert.	7323.000	PK	46.6	36.3	6.9	39.0	50.8	73.9	23.1	100	0	
Vert.	9764.000	PK	44.7	38.4	7.8	39.1	51.8	73.9	22.1	100	0	
Vert.	12205.000	PK	45.7	39.2	9.2	38.7	55.4	73.9	18.5	100	0	
Vert.	1920.170	AV	40.0	26.7	13.0	40.0	39.7	53.9	14.2	100	311	VBW:10Hz

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter) - Gain(Amplifier)

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

*The 3-5th harmonic was not seen so the result was its base noise level.

Dwell time factor relaxation

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant Factor [dB/m]	Loss [dB]	Gain [dB]	Dwell Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori.	4882.000	AV	42.7	31.1	5.5	40.1	-24.7	14.5	53.9	39.4	VBW:300Hz
Hori.	7323.000	AV	35.8	36.3	6.9	39.0	-24.7	15.3	53.9	38.6	VBW:300Hz
Hori.	9764.000	AV	33.6	38.4	7.8	39.1	-24.7	16.0	53.9	37.9	VBW:300Hz
Hori.	12205.000	AV	33.7	39.2	9.2	38.7	-24.7	18.7	53.9	35.2	VBW:300Hz
Vert.	4882.000	AV	42.9	31.1	5.5	40.1	-24.7	14.7	53.9	39.2	VBW:300Hz
Vert.	7323.000	AV	35.8	36.3	6.9	39.0	-24.7	15.3	53.9	38.6	VBW:300Hz
Vert.	9764.000	AV	34.1	38.4	7.8	39.1	-24.7	16.5	53.9	37.4	VBW:300Hz
Vert.	12205.000	AV	34.1	39.2	9.2	38.7	-24.7	19.1	53.9	34.8	VBW:300Hz

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter)

- Gain(Amplifier) + Dwell time factor (Refer to dwell time data sheet)

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

*The 3-5th harmonic was not seen so the result was its base noise level.

Radiated Emission

Test place : UL Japan, Inc. Shonan EMC Lab. No.1 Semi Anechoic Chamber
 Date : 2010/11/18 2010/11/19
 Temperature / Humidity : 24deg.C. , 31% 22deg.C. , 34%
 Engineer : Shinichi Takano 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.	154.832	QP	43.8	15.1	8.4	31.8	35.5	43.5	8.0	200	88	
Hori.	283.851	QP	43.9	18.7	9.5	31.7	40.4	46.0	5.6	117	345	
Hori.	309.653	QP	52.7	14.3	6.6	31.8	41.8	46.0	4.2	100	278	
Hori.	335.465	QP	48.4	15.0	6.8	31.7	38.5	46.0	7.5	100	285	
Hori.	438.687	QP	46.0	17.2	7.4	31.9	38.7	46.0	7.3	100	345	
Hori.	1920.154	PK	50.6	26.7	13.0	40.0	50.3	73.9	23.6	129	161	
Hori.	2483.500	PK	46.0	27.1	13.5	39.7	46.9	73.9	27.0	110	199	
Hori.	4960.000	PK	49.2	31.3	5.5	40.0	46.0	73.9	27.9	105	3	
Hori.	7440.000	PK	47.1	36.5	7.1	39.1	51.6	73.9	22.3	100	0	
Hori.	9920.000	PK	45.5	38.4	8.1	39.3	52.7	73.9	21.2	100	0	
Hori.	12400.000	PK	45.4	39.2	9.5	38.6	55.5	73.9	18.4	100	0	
Hori.	1920.154	AV	45.3	26.7	13.0	40.0	45.0	53.9	8.9	129	161	VBW:10Hz
Vert.	84.330	QP	45.8	7.3	7.7	31.8	29.0	40.0	11.0	100	359	
Vert.	154.828	QP	40.1	15.1	8.4	31.8	31.8	43.5	11.7	100	22	
Vert.	335.460	QP	41.1	15.0	6.8	31.7	31.2	46.0	14.8	100	17	
Vert.	1920.154	PK	48.3	26.7	13.0	40.0	48.0	73.9	25.9	100	309	
Vert.	2483.500	PK	46.4	27.1	13.5	39.7	47.3	73.9	26.6	111	198	
Vert.	4960.000	PK	49.0	31.3	5.5	40.0	45.8	73.9	28.1	125	13	
Vert.	7440.000	PK	47.0	36.5	7.1	39.1	51.5	73.9	22.4	100	0	
Vert.	9920.000	PK	45.5	38.4	8.1	39.3	52.7	73.9	21.2	100	0	
Vert.	12400.000	PK	45.0	39.2	9.5	38.6	55.1	73.9	18.8	100	0	
Vert.	1920.154	AV	40.0	26.7	13.0	40.0	39.7	53.9	14.2	100	309	VBW:10Hz

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter) - Gain(Amplifier)

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

*The 3-5th harmonic was not seen so the result was its base noise level.

Dwell time factor relaxation

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant Factor [dB/m]	Loss [dB]	Gain [dB]	Dwell Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori.	2483.500	AV	35.4	27.1	13.5	39.7	-24.7	11.6	53.9	42.3	VBW:300Hz
Hori.	4960.000	AV	40.8	31.3	5.5	40.0	-24.7	12.9	53.9	41.0	VBW:300Hz
Hori.	7440.000	AV	36.2	36.5	7.1	39.1	-24.7	16.0	53.9	37.9	VBW:300Hz
Hori.	9920.000	AV	34.7	38.4	8.1	39.3	-24.7	17.2	53.9	36.7	VBW:300Hz
Hori.	12400.000	AV	33.7	39.2	9.5	38.6	-24.7	19.1	53.9	34.8	VBW:300Hz
Vert.	2483.500	AV	34.5	27.1	13.5	39.7	-24.7	10.7	53.9	43.2	VBW:300Hz
Vert.	4960.000	AV	41.8	31.3	5.5	40.0	-24.7	13.9	53.9	40.0	VBW:300Hz
Vert.	7440.000	AV	36.2	36.5	7.1	39.1	-24.7	16.0	53.9	37.9	VBW:300Hz
Vert.	9920.000	AV	34.8	38.4	8.1	39.3	-24.7	17.3	53.9	36.6	VBW:300Hz
Vert.	12400.000	AV	34.3	39.2	9.5	38.6	-24.7	19.7	53.9	34.2	VBW:300Hz

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter)

- Gain(Amplifier) + Dwell time factor (Refer to dwell time data sheet)

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

*The 3-5th harmonic was not seen so the result was its base noise level.

Radiated Emission

Test place : UL Japan, Inc. Shonan EMC Lab. No.1 Semi Anechoic Chamber
 Date : 2010/11/18 2010/11/19
 Temperature / Humidity : 24deg.C. , 31% 22deg.C. , 34%
 Engineer : Shinichi Takano Shinichi Takano
 Mode : Tx, 2402 MHz
 Bluetooth, 3-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.	154.828	QP	42.9	15.1	8.4	31.8	34.6	43.5	8.9	203	99	
Hori.	309.654	QP	52.2	14.3	6.6	31.8	41.3	46.0	4.7	100	285	
Hori.	335.467	QP	46.7	15.0	6.8	31.7	36.8	46.0	9.2	100	353	
Hori.	438.680	QP	45.4	17.2	7.4	31.9	38.1	46.0	7.9	100	2	
Hori.	1920.180	PK	50.0	26.7	13.0	40.0	49.7	73.9	24.2	106	261	
Hori.	2390.000	PK	46.3	27.1	13.3	39.8	46.9	73.9	27.0	108	20	
Hori.	2400.000	PK	56.8	27.1	13.5	39.8	57.6	73.9	16.3	108	20	
Hori.	4804.000	PK	50.1	30.8	5.4	40.2	46.1	73.9	27.8	108	197	
Hori.	7206.000	PK	47.1	36.0	6.7	38.9	50.9	73.9	23.0	100	0	
Hori.	9608.000	PK	45.5	38.3	7.7	38.8	52.7	73.9	21.2	100	0	
Hori.	12010.000	PK	45.5	39.1	9.0	38.7	54.9	73.9	19.0	100	0	
Hori.	1920.180	AV	44.0	26.7	13.0	40.0	43.7	53.9	10.2	106	261	VBW:10Hz
Vert.	84.680	QP	45.2	7.4	7.7	31.8	28.5	40.0	11.5	100	26	
Vert.	129.018	QP	41.2	13.8	8.2	31.8	31.4	43.5	12.1	100	32	
Vert.	154.832	QP	40.3	15.1	8.4	31.8	32.0	43.5	11.5	100	17	
Vert.	335.461	QP	39.7	15.0	6.8	31.7	29.8	46.0	16.2	100	18	
Vert.	1920.141	PK	48.1	26.7	13.0	40.0	47.8	73.9	26.1	114	194	
Vert.	2390.000	PK	46.2	27.1	13.3	39.8	46.8	73.9	27.1	117	210	
Vert.	2400.000	PK	53.7	27.1	13.5	39.8	54.5	73.9	19.4	117	210	
Vert.	4804.000	PK	49.5	30.8	5.4	40.2	45.5	73.9	28.4	108	157	
Vert.	7206.000	PK	47.1	36.0	6.7	38.9	50.9	73.9	23.0	100	0	
Vert.	9608.000	PK	45.3	38.3	7.7	38.8	52.5	73.9	21.4	100	0	
Vert.	12010.000	PK	45.3	39.1	9.0	38.7	54.7	73.9	19.2	100	0	
Vert.	1920.141	AV	40.0	26.7	13.0	40.0	39.7	53.9	14.2	114	194	VBW:10Hz

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter) - Gain(Amplifier)

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

*The 3-5th harmonic was not seen so the result was its base noise level.

Dwell time factor relaxation

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant Factor [dB/m]	Loss [dB]	Gain [dB]	Dwell Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori.	2390.000	AV	34.9	27.1	13.3	39.8	-24.7	10.8	53.9	43.1	VBW:300Hz
Hori.	2400.000	AV	43.9	27.1	13.5	39.8	-24.7	20.0	53.9	33.9	VBW:300Hz
Hori.	4804.000	AV	44.2	30.8	5.4	40.2	-24.7	15.5	53.9	38.4	VBW:300Hz
Hori.	7206.000	AV	36.3	36.0	6.7	38.9	-24.7	15.4	53.9	38.5	VBW:300Hz
Hori.	9608.000	AV	33.6	38.3	7.7	38.8	-24.7	16.1	53.9	37.8	VBW:300Hz
Hori.	12010.000	AV	33.7	39.1	9.0	38.7	-24.7	18.4	53.9	35.5	VBW:300Hz
Vert.	2390.000	AV	34.6	27.1	13.3	39.8	-24.7	10.5	53.9	43.4	VBW:300Hz
Vert.	2400.000	AV	41.4	27.1	13.5	39.8	-24.7	17.5	53.9	36.4	VBW:300Hz
Vert.	4804.000	AV	42.0	30.8	5.4	40.2	-24.7	13.3	53.9	40.6	VBW:300Hz
Vert.	7206.000	AV	36.0	36.0	6.7	38.9	-24.7	15.1	53.9	38.8	VBW:300Hz
Vert.	9608.000	AV	33.4	38.3	7.7	38.8	-24.7	15.9	53.9	38.0	VBW:300Hz
Vert.	12010.000	AV	33.9	39.1	9.0	38.7	-24.7	18.6	53.9	35.3	VBW:300Hz

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter)

- Gain(Amplifier) + Dwell time factor (Refer to dwell time data sheet)

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

*The 3-5th harmonic was not seen so the result was its base noise level.

Radiated Emission

Test place : UL Japan, Inc. Shonan EMC Lab. No.1 Semi Anechoic Chamber
 Date : 2010/11/18 2010/11/19
 Temperature / Humidity : 24deg.C. , 31% 22deg.C. , 34%
 Engineer : Shinichi Takano Shinichi Takano
 Mode : Tx, 2441 MHz
 Bluetooth, 3-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.	113.455	QP	41.6	12.4	8.0	31.8	30.2	43.5	13.3	161	325	
Hori.	154.828	QP	42.9	15.1	8.4	31.8	34.6	43.5	8.9	196	88	
Hori.	283.849	QP	41.1	18.7	9.5	31.7	37.6	46.0	8.4	126	345	
Hori.	309.654	QP	53.4	14.3	6.6	31.8	42.5	46.0	3.5	100	284	
Hori.	438.678	QP	46.0	17.2	7.4	31.9	38.7	46.0	7.3	100	353	
Hori.	1920.173	PK	50.8	26.7	13.0	40.0	50.5	73.9	23.4	106	262	
Hori.	4882.000	PK	50.7	31.1	5.5	40.1	47.2	73.9	26.7	108	339	
Hori.	7323.000	PK	47.4	36.3	6.9	39.0	51.6	73.9	22.3	100	0	
Hori.	9764.000	PK	45.9	38.4	7.8	39.1	53.0	73.9	20.9	100	0	
Hori.	12205.000	PK	45.4	39.2	9.2	38.7	55.1	73.9	18.8	100	0	
Hori.	1920.173	AV	44.0	26.7	13.0	40.0	43.7	53.9	10.2	106	262	VBW:10Hz
Vert.	84.094	QP	44.4	7.3	7.7	31.8	27.6	40.0	12.4	100	359	
Vert.	154.832	QP	40.3	15.1	8.4	31.8	32.0	43.5	11.5	100	39	
Vert.	309.654	QP	43.5	14.3	6.6	31.8	32.6	46.0	13.4	100	317	
Vert.	1920.179	PK	48.8	26.7	13.0	40.0	48.5	73.9	25.4	112	193	
Vert.	4882.000	PK	50.2	31.1	5.5	40.1	46.7	73.9	27.2	110	195	
Vert.	7323.000	PK	47.1	36.3	6.9	39.0	51.3	73.9	22.6	100	0	
Vert.	9764.000	PK	45.3	38.4	7.8	39.1	52.4	73.9	21.5	100	0	
Vert.	12205.000	PK	45.7	39.2	9.2	38.7	55.4	73.9	18.5	100	0	
Vert.	1920.179	AV	40.4	26.7	13.0	40.0	40.1	53.9	13.8	112	193	VBW:10Hz

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter) - Gain(Amplifier)

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

*The 3-5th harmonic was not seen so the result was its base noise level.

Dwell time factor relaxation

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant Factor [dB/m]	Loss [dB]	Gain [dB]	Dwell Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori.	4882.000	AV	45.4	31.1	5.5	40.1	-24.7	17.2	53.9	36.7	VBW:300Hz
Hori.	7323.000	AV	36.0	36.3	6.9	39.0	-24.7	15.5	53.9	38.4	VBW:300Hz
Hori.	9764.000	AV	33.8	38.4	7.8	39.1	-24.7	16.2	53.9	37.7	VBW:300Hz
Hori.	12205.000	AV	33.6	39.2	9.2	38.7	-24.7	18.6	53.9	35.3	VBW:300Hz
Vert.	4882.000	AV	43.7	31.1	5.5	40.1	-24.7	15.5	53.9	38.4	VBW:300Hz
Vert.	7323.000	AV	36.2	36.3	6.9	39.0	-24.7	15.7	53.9	38.2	VBW:300Hz
Vert.	9764.000	AV	34.2	38.4	7.8	39.1	-24.7	16.6	53.9	37.3	VBW:300Hz
Vert.	12205.000	AV	33.6	39.2	9.2	38.7	-24.7	18.6	53.9	35.3	VBW:300Hz

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter)

- Gain(Amplifier) + Dwell time factor (Refer to dwell time data sheet)

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

*The 3-5th harmonic was not seen so the result was its base noise level.

Radiated Emission

Test place : UL Japan, Inc. Shonan EMC Lab. No.1 Semi Anechoic Chamber
 Date : 2010/11/18 2010/11/19
 Temperature / Humidity : 24deg.C. , 31% 22deg.C. , 34%
 Engineer : Shinichi Takano Shinichi Takano
 Mode : Tx, 2480 MHz
 Bluetooth, 3-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.	154.833	QP	43.2	15.1	8.4	31.8	34.9	43.5	8.6	192	85	
Hori.	283.847	QP	43.2	18.7	9.5	31.7	39.7	46.0	6.3	119	344	
Hori.	309.654	QP	53.3	14.3	6.6	31.8	42.4	46.0	3.6	100	275	
Hori.	438.680	QP	46.0	17.2	7.4	31.9	38.7	46.0	7.3	100	354	
Hori.	1920.167	PK	49.8	26.7	13.0	40.0	49.5	73.9	24.4	114	244	
Hori.	2483.500	PK	47.6	27.1	13.5	39.7	48.5	73.9	25.4	111	310	
Hori.	4960.000	PK	50.3	31.3	5.5	40.0	47.1	73.9	26.8	110	357	
Hori.	7440.000	PK	47.7	36.5	7.1	39.1	52.2	73.9	21.7	100	0	
Hori.	9920.000	PK	46.3	38.4	8.1	39.3	53.5	73.9	20.4	100	0	
Hori.	12400.000	PK	45.2	39.2	9.5	38.6	55.3	73.9	18.6	100	0	
Hori.	1920.167	AV	43.6	26.7	13.0	40.0	43.3	53.9	10.6	114	244	VBW:10Hz
Vert.	83.991	QP	44.2	7.3	7.7	31.8	27.4	40.0	12.6	100	349	
Vert.	129.017	QP	39.9	13.8	8.2	31.8	30.1	43.5	13.4	100	358	
Vert.	438.678	QP	42.5	17.2	7.4	31.9	35.2	46.0	10.8	183	320	
Vert.	1920.192	PK	47.8	26.7	13.0	40.0	47.5	73.9	26.4	115	192	
Vert.	2483.500	PK	46.0	27.1	13.5	39.7	46.9	73.9	27.0	112	194	
Vert.	4960.000	PK	48.9	31.3	5.5	40.0	45.7	73.9	28.2	111	359	
Vert.	7440.000	PK	47.2	36.5	7.1	39.1	51.7	73.9	22.2	100	0	
Vert.	9920.000	PK	46.0	38.4	8.1	39.3	53.2	73.9	20.7	100	0	
Vert.	12400.000	PK	45.8	39.2	9.5	38.6	55.9	73.9	18.0	100	0	
Vert.	1920.192	AV	40.1	26.7	13.0	40.0	39.8	53.9	14.1	115	192	VBW:10Hz

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter) - Gain(Amplifier)

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

*The 3-5th harmonic was not seen so the result was its base noise level.

Dwell time factor relaxation

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant Factor [dB/m]	Loss [dB]	Gain [dB]	Dwell Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori.	2483.500	AV	35.3	27.1	13.5	39.7	-24.7	11.5	53.9	42.4	VBW:300Hz
Hori.	4960.000	AV	43.1	31.3	5.5	40.0	-24.7	15.2	53.9	38.7	VBW:300Hz
Hori.	7440.000	AV	36.2	36.5	7.1	39.1	-24.7	16.0	53.9	37.9	VBW:300Hz
Hori.	9920.000	AV	34.6	38.4	8.1	39.3	-24.7	17.1	53.9	36.8	VBW:300Hz
Hori.	12400.000	AV	34.2	39.2	9.5	38.6	-24.7	19.6	53.9	34.3	VBW:300Hz
Vert.	2483.500	AV	34.5	27.1	13.5	39.7	-24.7	10.7	53.9	43.2	VBW:300Hz
Vert.	4960.000	AV	41.7	31.3	5.5	40.0	-24.7	13.8	53.9	40.1	VBW:300Hz
Vert.	7440.000	AV	36.3	36.5	7.1	39.1	-24.7	16.1	53.9	37.8	VBW:300Hz
Vert.	9920.000	AV	34.7	38.4	8.1	39.3	-24.7	17.2	53.9	36.7	VBW:300Hz
Vert.	12400.000	AV	34.1	39.2	9.5	38.6	-24.7	19.5	53.9	34.4	VBW:300Hz

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter)

- Gain(Amplifier) + Dwell time factor (Refer to dwell time data sheet)

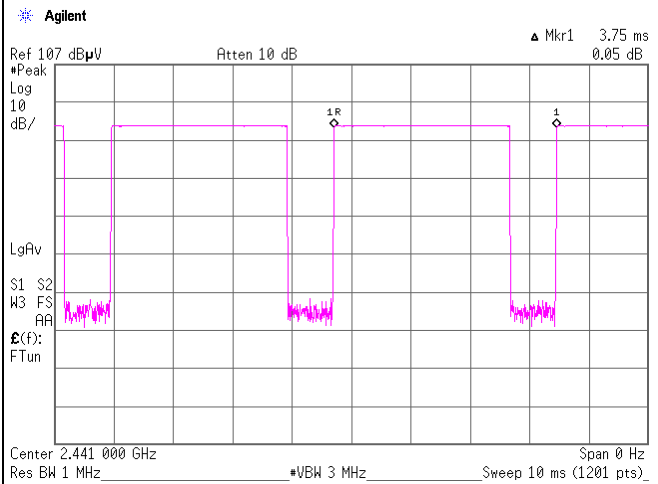
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20dB).

*The 3-5th harmonic was not seen so the result was its base noise level.

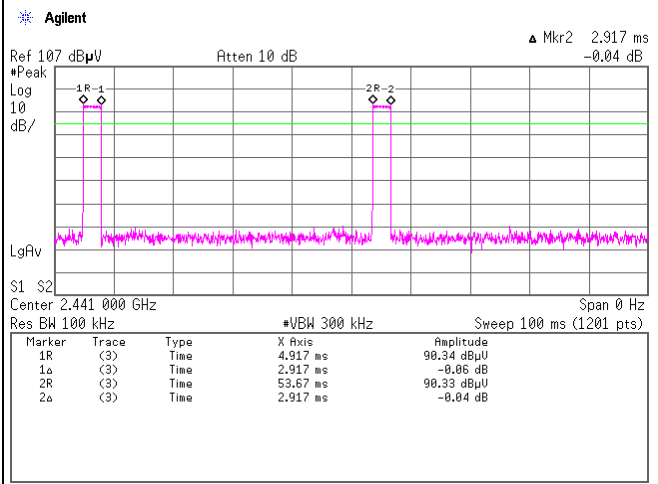
Spurious emission (Radiated)

DH5,
 VBW (AV) Calculation

VBW: $1/x = 266\text{Hz} < 300\text{Hz}$
x: (Tx on+Tx off) = 3.75ms



Worst 100ms,
Dwell time factor = $20\log(5.834/100) = -24.68\text{dB}$



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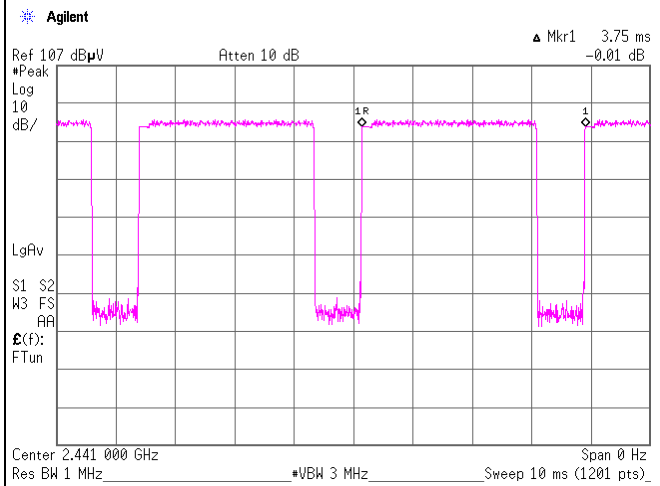
1-22-3 Megumigaoka, Hiratsuka-shi, Kanagawa 259-1220 JAPAN
 Telephone : +81 463 50 6400
 Facsimile : +81 463 50 6401

Spurious emission (Radiated)

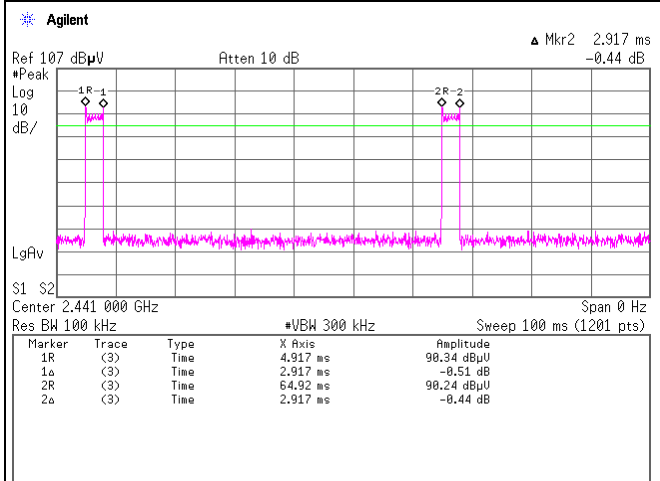
3-DH5,

VBW (AV) Calculation

VBW: $1/x = 266\text{Hz} < 300\text{Hz}$
x: (Tx on+Tx off) = 3.75ms



Worst 100ms,
Dwell time factor = $20\log(5.834/100) = -24.68\text{dB}$



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Spurious emission (Conducted)

DH5,
Tx, 2402MHz



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Spurious emission (Conducted)

DH5,
Tx, 2441MHz



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Spurious emission (Conducted)

DH5,
Tx, 2480MHz



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Spurious emission (Conducted)

3-DH5,

Tx, 2402MHz



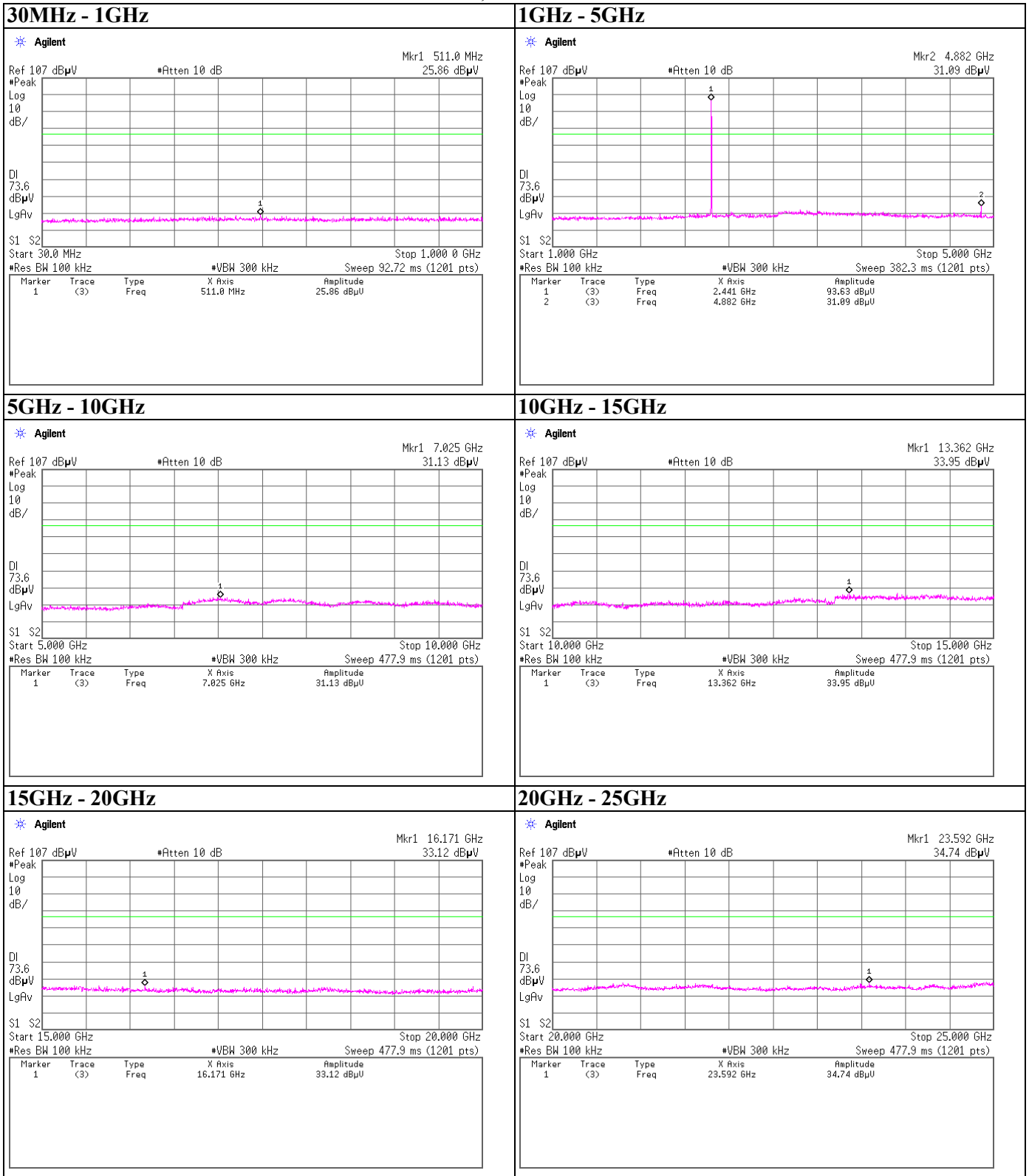
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Spurious emission (Conducted)

3-DH5,

Tx, 2441MHz



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Spurious emission (Conducted)

3-DH5,

Tx, 2480MHz



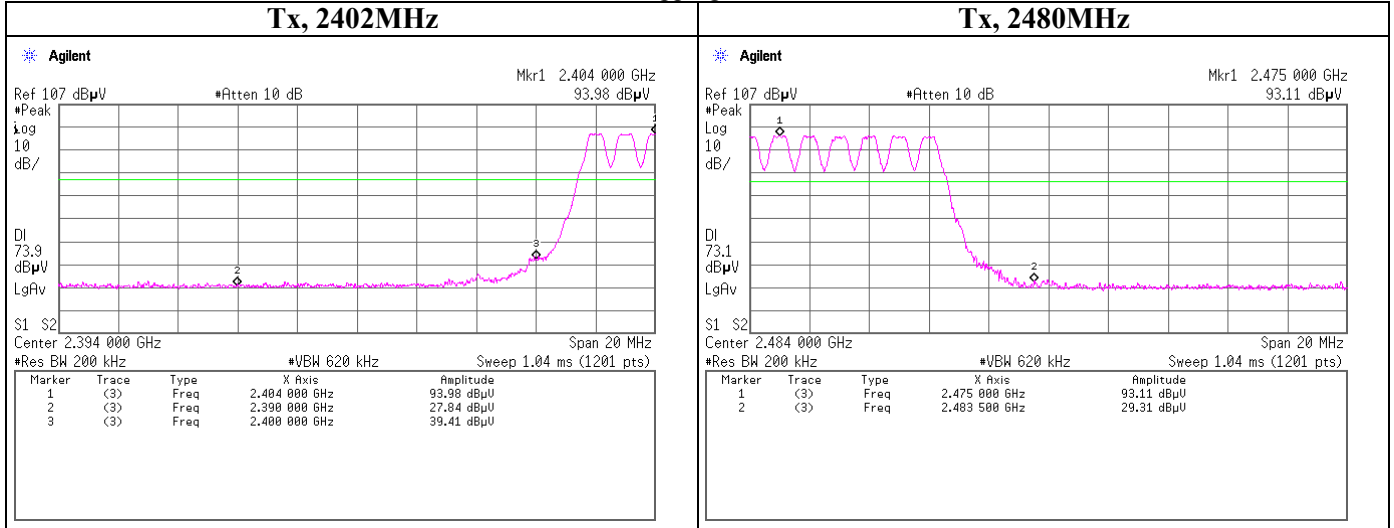
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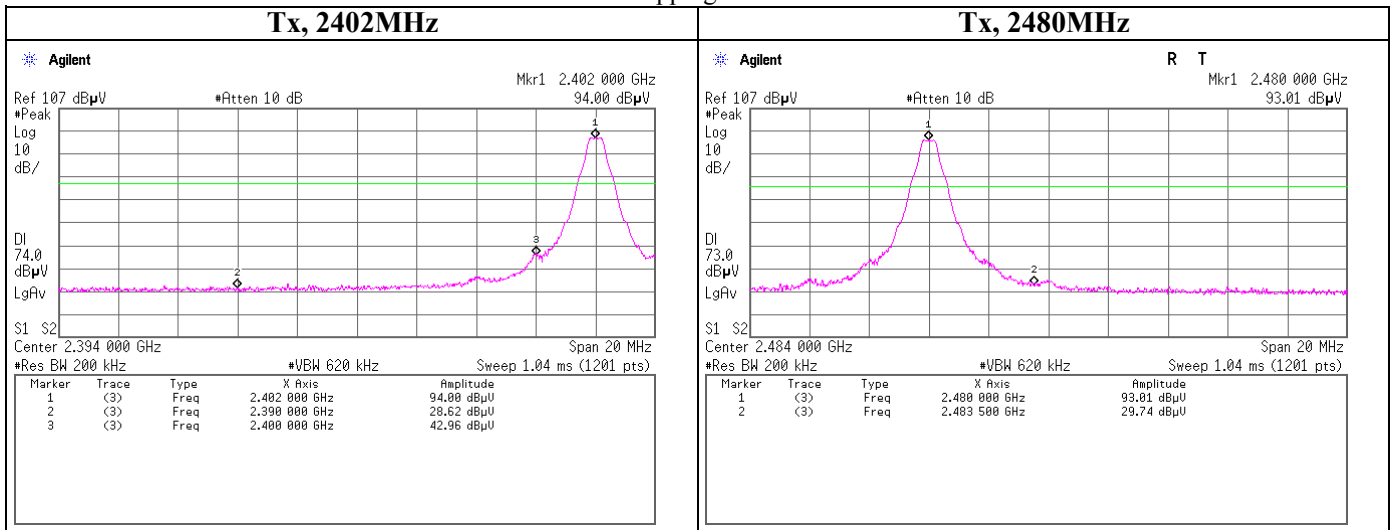
Spurious emission (Conducted)

Band Edge compliance
 DH5,

Hopping ON



Hopping OFF



UL Japan, Inc.
Shonan EMC Lab.

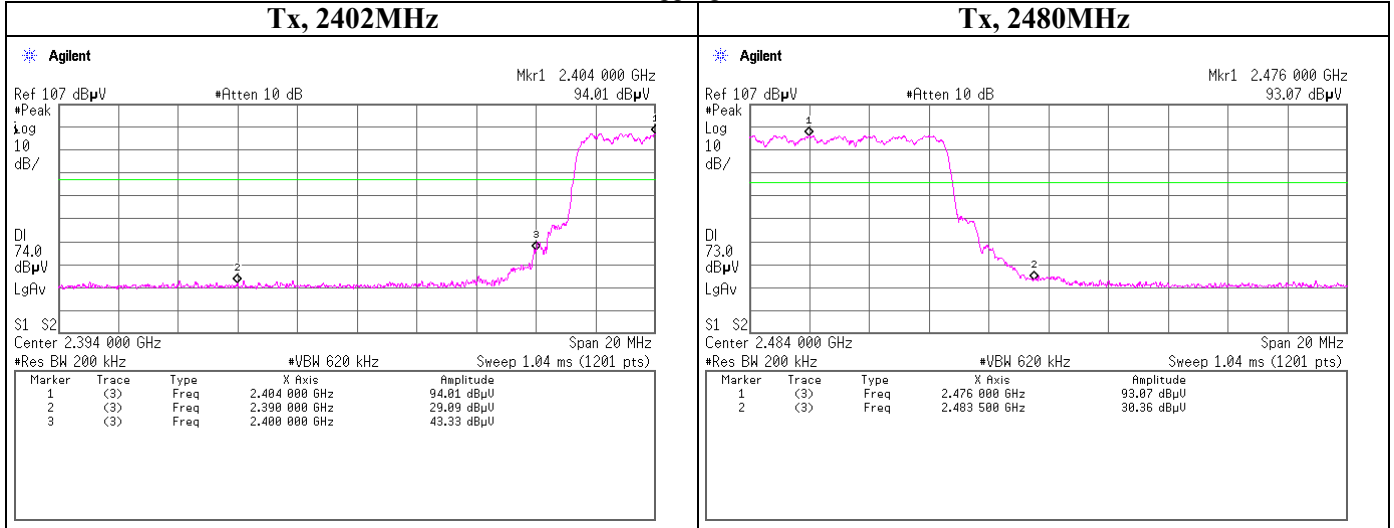
1-22-3 Megumigaoka, Hiratsuka-shi, Kanagawa 259-1220 JAPAN
 Telephone : +81 463 50 6400
 Facsimile : +81 463 50 6401

Spurious emission (Conducted)

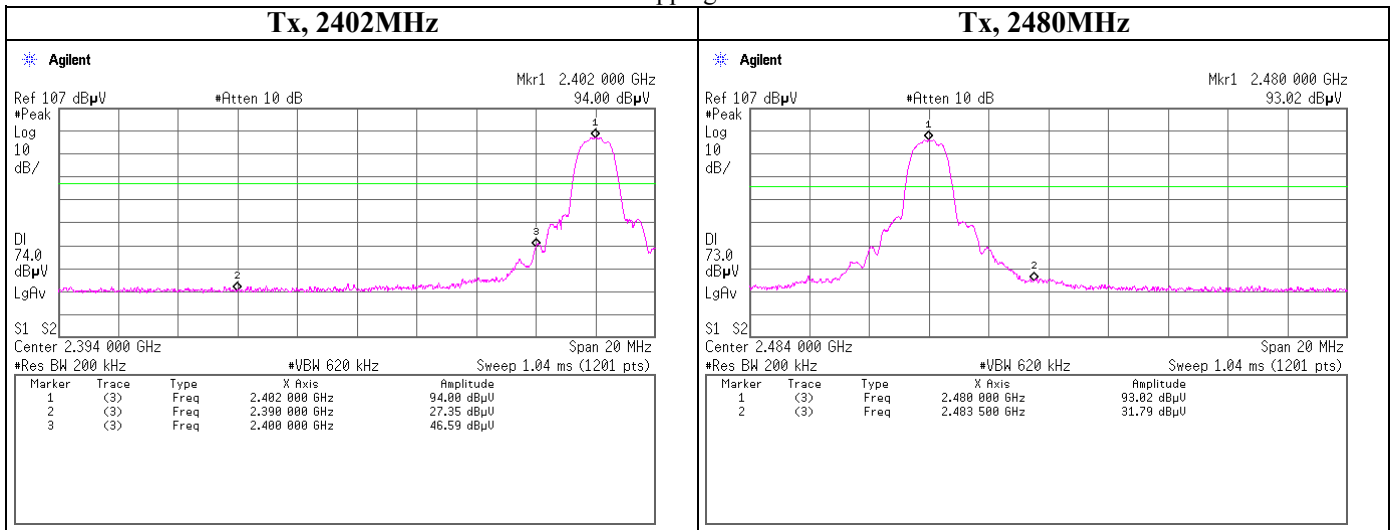
Band Edge compliance

3-DH5,

Hopping ON



Hopping OFF

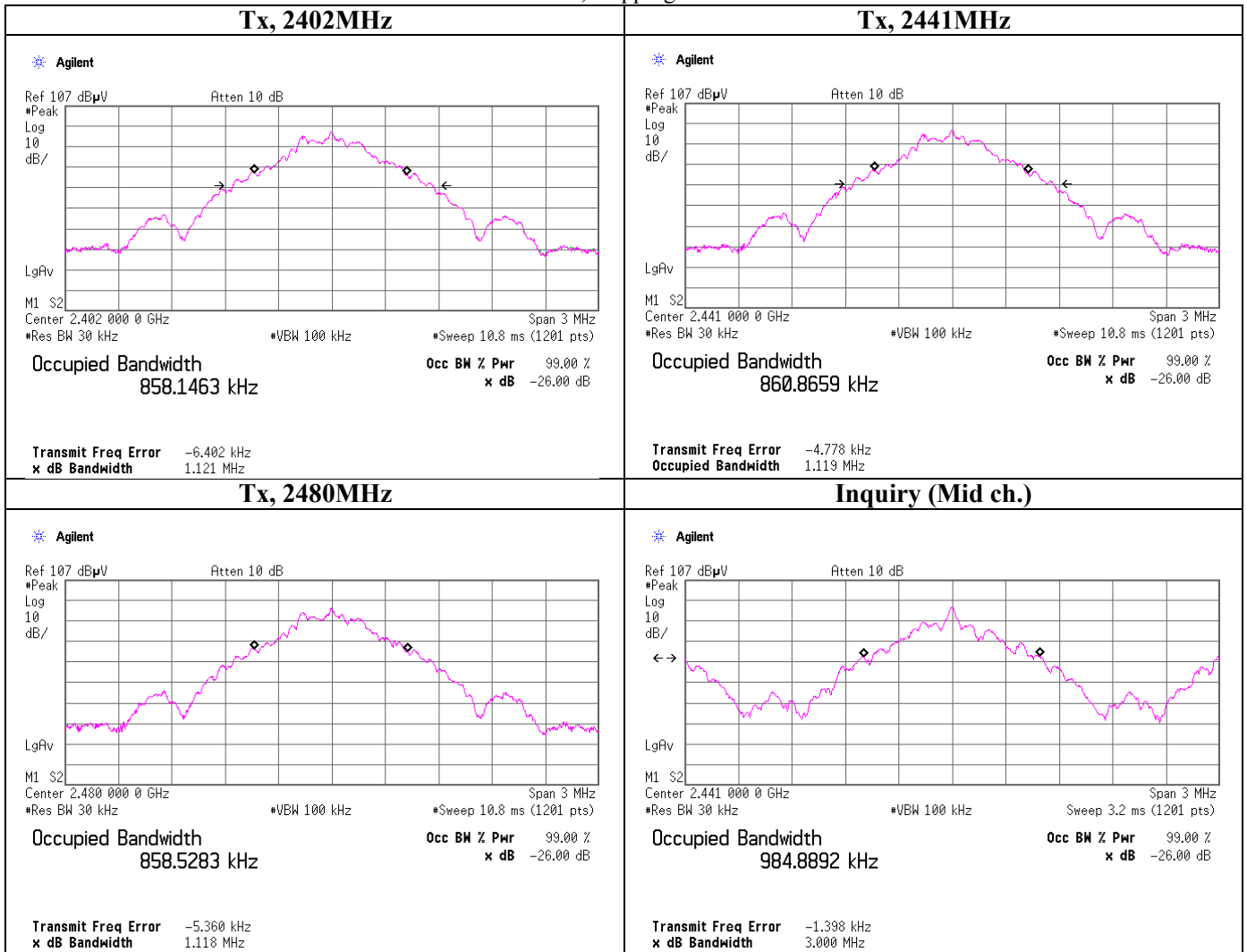


UL Japan, Inc.
Shonan EMC Lab.

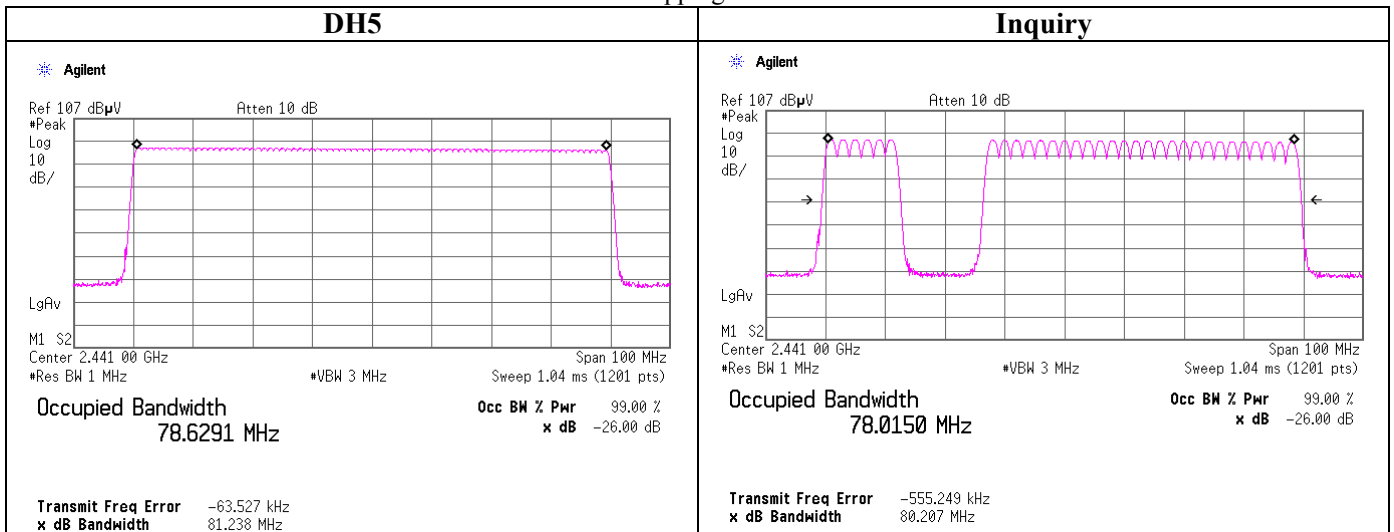
1-22-3 Megumigaoka, Hiratsuka-shi, Kanagawa 259-1220 JAPAN
 Telephone : +81 463 50 6400
 Facsimile : +81 463 50 6401

99% Occupied Bandwidth

DH5, Hopping Off



Hopping On

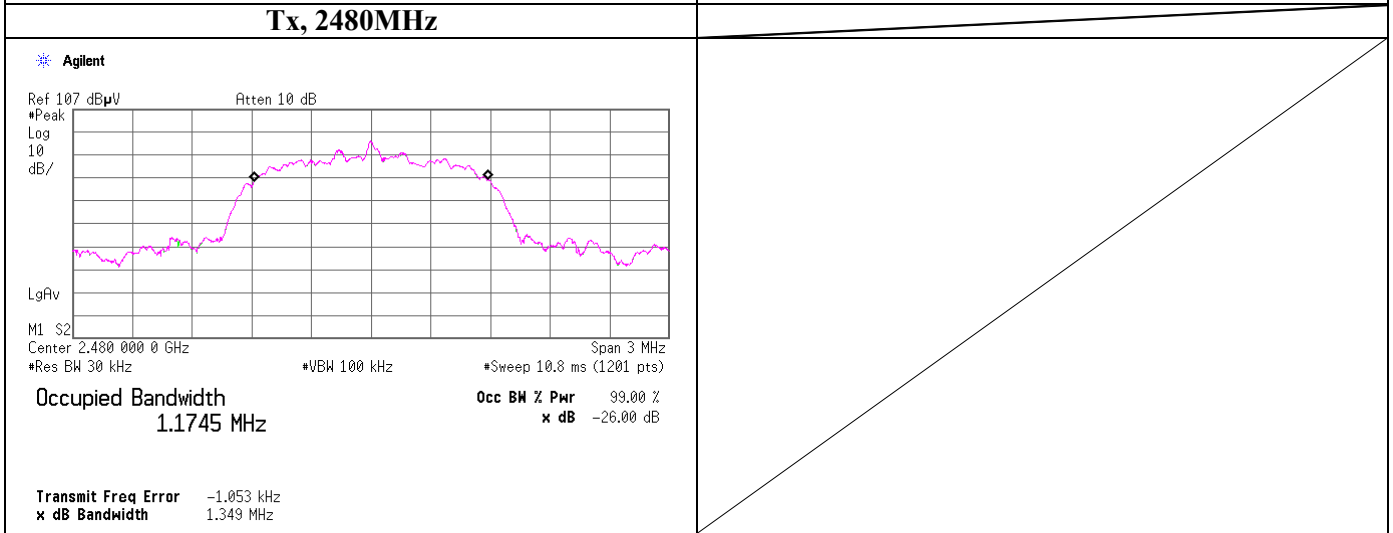
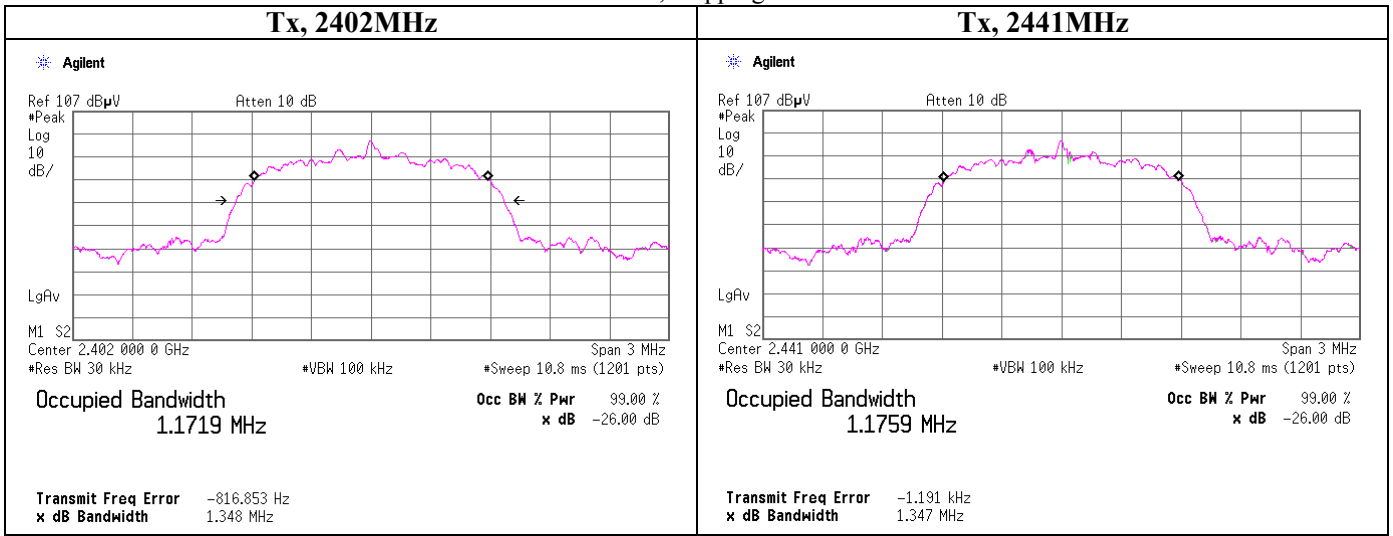


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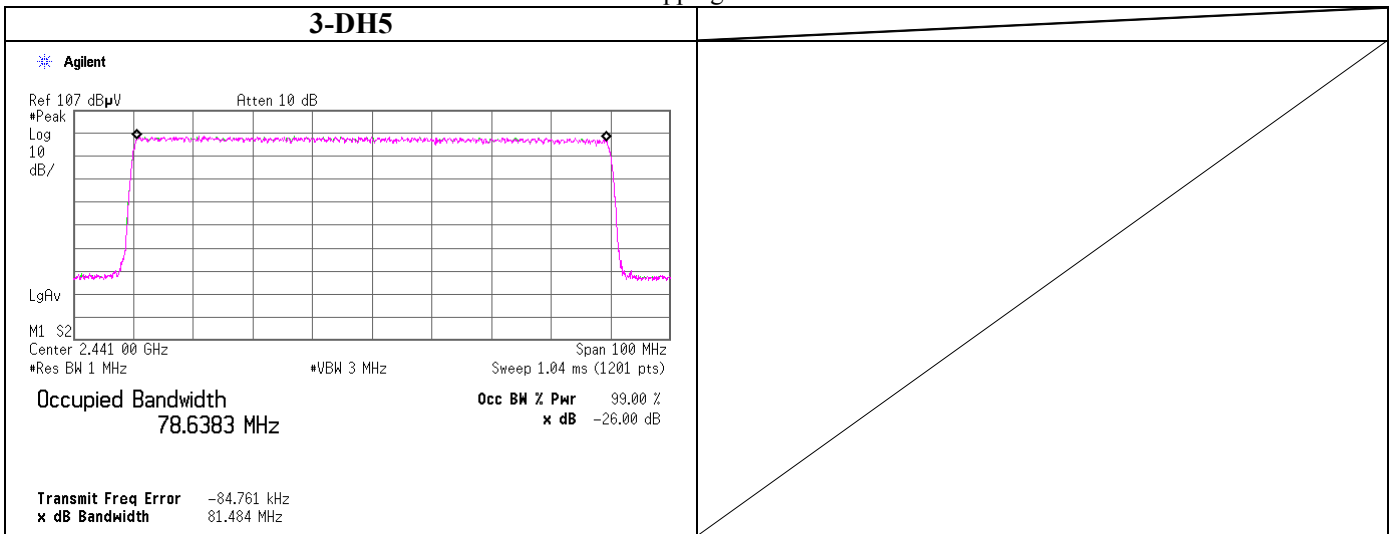
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99% Occupied Bandwidth

3-DH5, Hopping Off



Hopping On



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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)
SSA-02	Spectrum Analyzer	Agilent	E4448A	MY48250106	AT	2010/06/22 * 12
SCC-G11	Coaxial Cable	Suhner	SUCOFLEX 102	31595/2	AT	2010/03/31 * 12
SAT10-08	Attenuator	Weinschel	W54-10	-	AT	2010/03/05 * 12
SPM-06	Power Meter	Anritsu	ML2495A	0850009	AT	2010/04/01 * 12
SPSS-03	Power sensor	Anritsu	MA2411B	0917063	AT	2010/04/01 * 12
SOS-09	Humidity Indicator	A&D	AD-5681	4061484	AT	2010/02/17 * 12
SAF-04	Pre Amplifier	TOYO Corporation	TPA0118-36	1440489	RE	2010/03/09 * 12
SCC-G01	Coaxial Cable	Suhner	SUCOFLEX 104A	46497/4A	RE	2010/04/16 * 12
SCC-G21	Coaxial Cable	Suhner	SUCOFLEX 104	296169/4	RE	2010/05/25 * 12
SHA-01	Horn Antenna	Schwarzbeck	BBHA9120D	9120D-725	RE	2010/08/08 * 12
SOS-01	Humidity Indicator	A&D	AD-5681	4062555	RE	2010/02/09 * 12
STR-01	Test Receiver	Rohde & Schwarz	ESU40	100093	RE	2010/10/29 * 12
SJM-07	Measure	PROMART	SEN1935	-	RE	-
COTS-SEMI-1	EMI Software	TSJ	TEPTO-DV	-	RE	-
SHA-04	Horn Antenna	ETS LINDGREN	3160-09	LM3640	RE	2010/03/29 * 12
SAF-08	Pre Amplifier	TOYO Corporation	HAP18-26W	00000019	RE	2010/03/02 * 12
SCC-G17	Coaxial Cable	Suhner	SUCOFLEX 104A	46291/4A	RE	2010/03/02 * 12
SFL-03	Highpass Filter	MICRO-TRONICS	HPM50112	028	RE	2009/12/04 * 12
KSA-08	Spectrum Analyzer	Agilent	E4446A	MY46180525	RE	2010/01/27 * 12
SAT10-04	Attenuator(above1GHz)	Agilent	8493C-010	74863	RE	2010/03/05 * 12
SFL-02	Highpass Filter	MICRO-TRONICS	HPM50111	051	RE	2009/12/04 * 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 :

RE: Radiated emission,

AT: Antenna terminal disturbance voltage