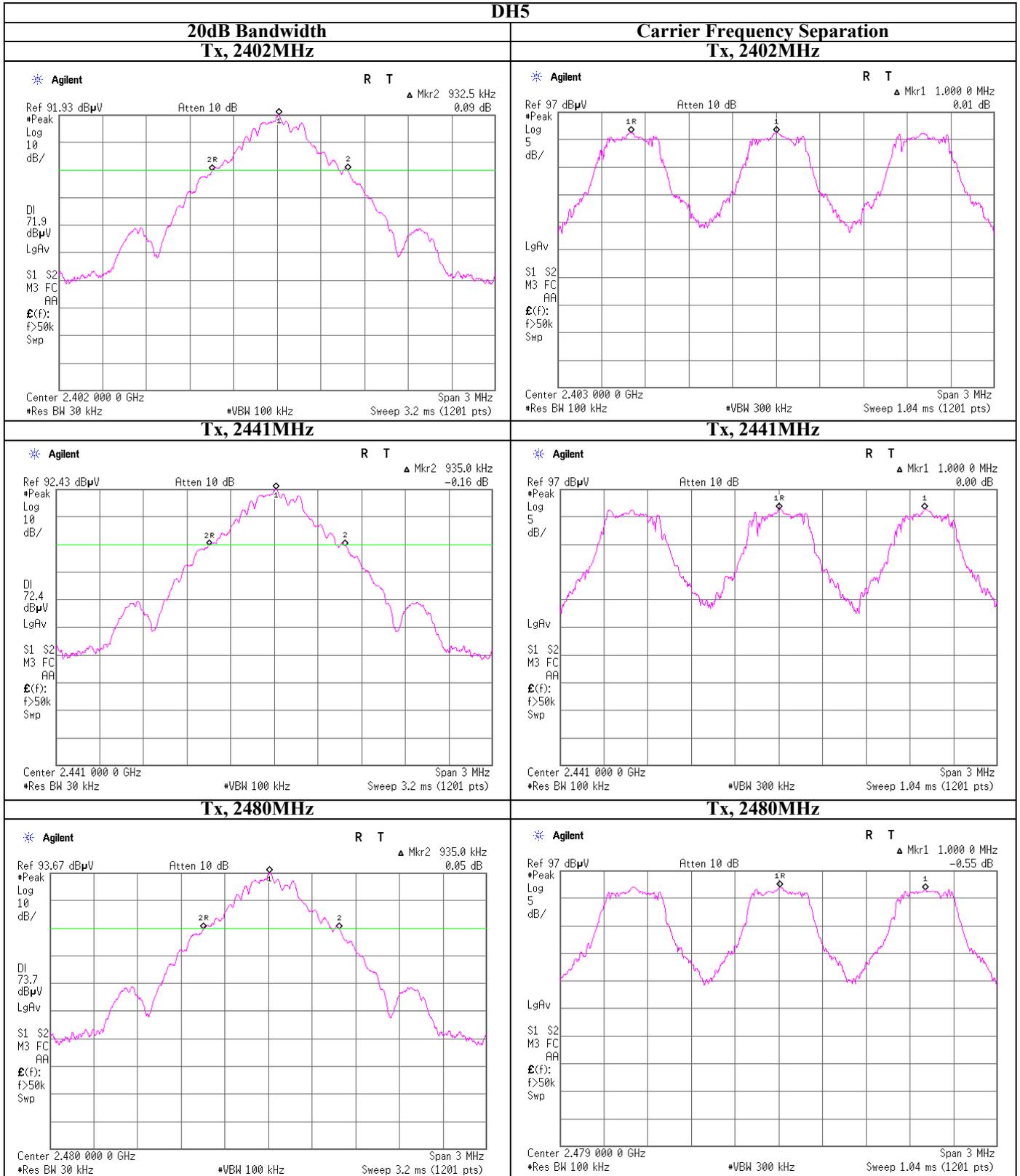

20dB Bandwidth and Carrier Frequency Separation

Test place UL Japan, Inc. Shonan EMC Lab. No.3 Shielded Room
Date 2010/9/23
Temperature / Humidity 25deg.C. , 52%
Engineer Akio Hayashi
Mode BT-TEST mode

Mode	Freq. [MHz]	20dB Bandwidth [MHz]	Carrier Frequency Separation [MHz]	Limit for Carrier Frequency Separation [MHz]
DH5	2402.0	0.933	1.000	≥ 0.622
DH5	2441.0	0.935	1.000	≥ 0.623
DH5	2480.0	0.935	1.000	≥ 0.623
Inquiry	2441.0	0.823	2.000	≥ 0.548

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

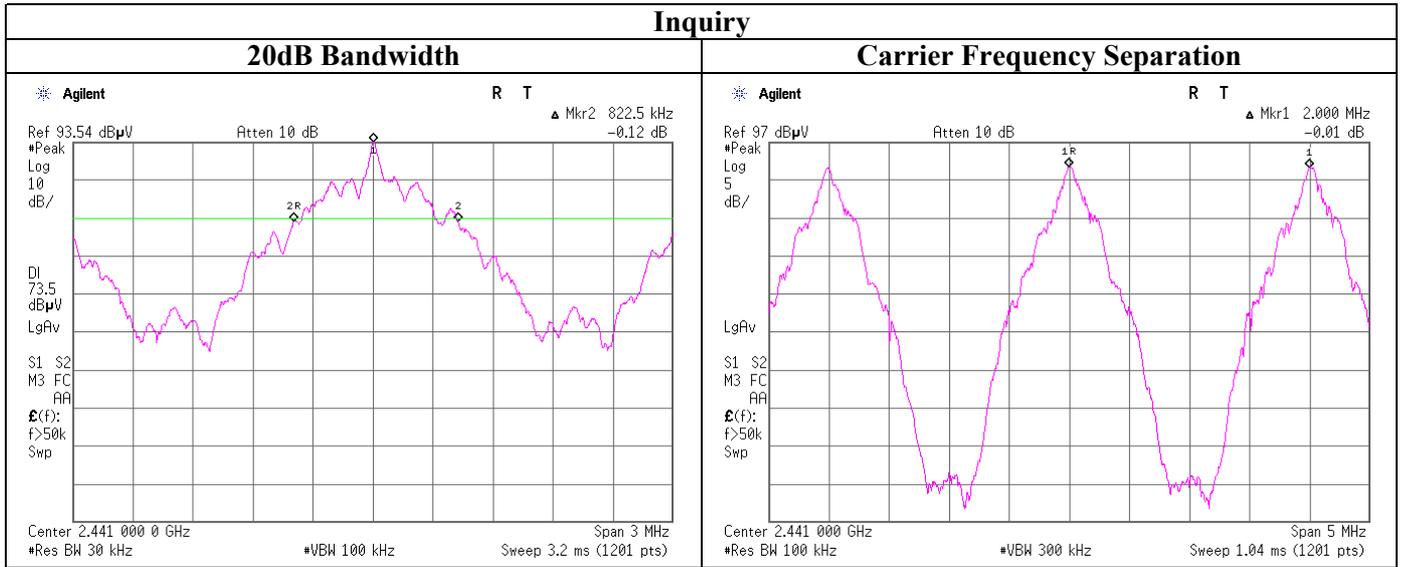
20dB Bandwidth and Carrier Frequency Separation



UL Japan, Inc.
Shonan EMC Lab.

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20dB Bandwidth and Carrier Frequency Separation



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Number of Hopping Frequency (Conducted)

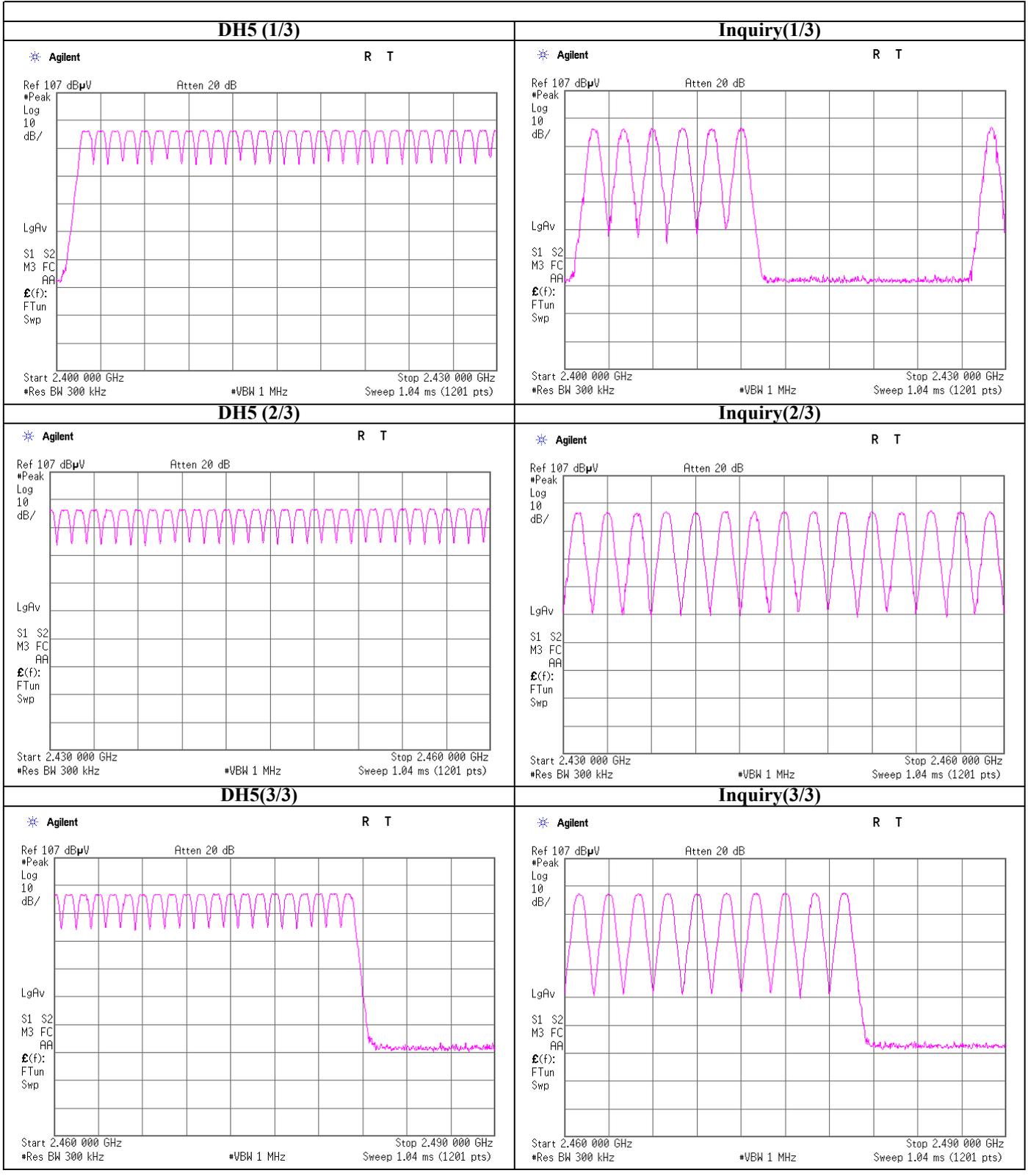
Test place UL Japan, Inc. Shonan EMC Lab. No.3 Shielded Room
Date 2010/9/23
Temperature / Humidity 25deg.C. , 52%
Engineer Akio Hayashi
Mode BT-TEST mode

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.3 Shielded Room
 Date 2010/9/23
 Temperature / Humidity 25deg.C. , 52%
 Engineer Akio Hayashi
 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	21.2 times / 5 sec. x 31.6 sec. = 134 times	0.399	53	400
DH3	21.0 times / 5 sec. x 31.6 sec. = 133 times	1.655	220	400
DH5	19.8 times / 5 sec. x 31.6 sec. = 126 times	2.902	366	400
Inquiry	100.0 times / 1 sec. x 12.8 sec. = 1280 times	0.101	130	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	20	18	26	17	25	21.2
DH3	20	22	21	21	21	21
DH5	20	21	21	17	20	19.8

Sample Calculation

Average= Summation(Sampling 1 to 5) / 5

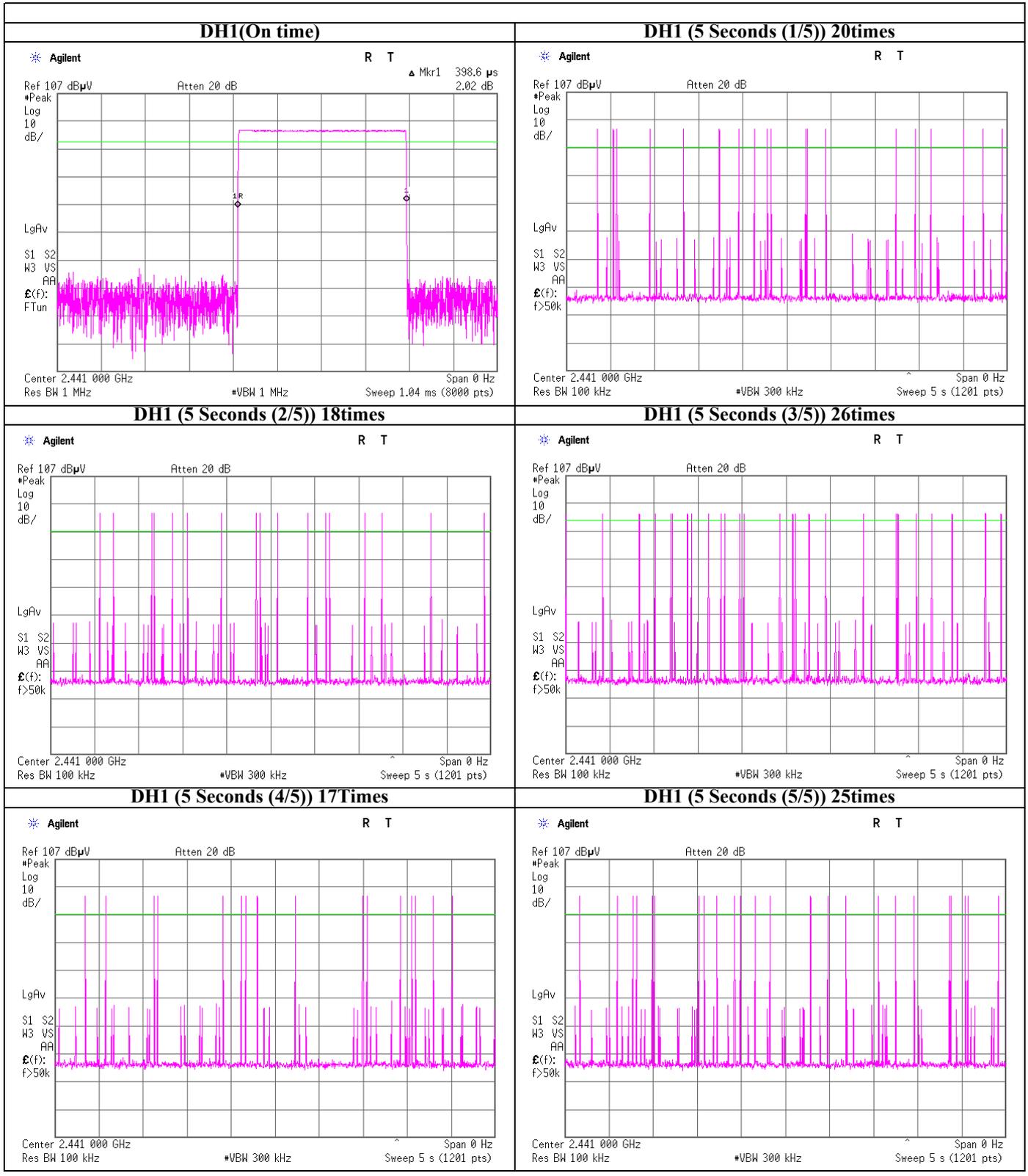
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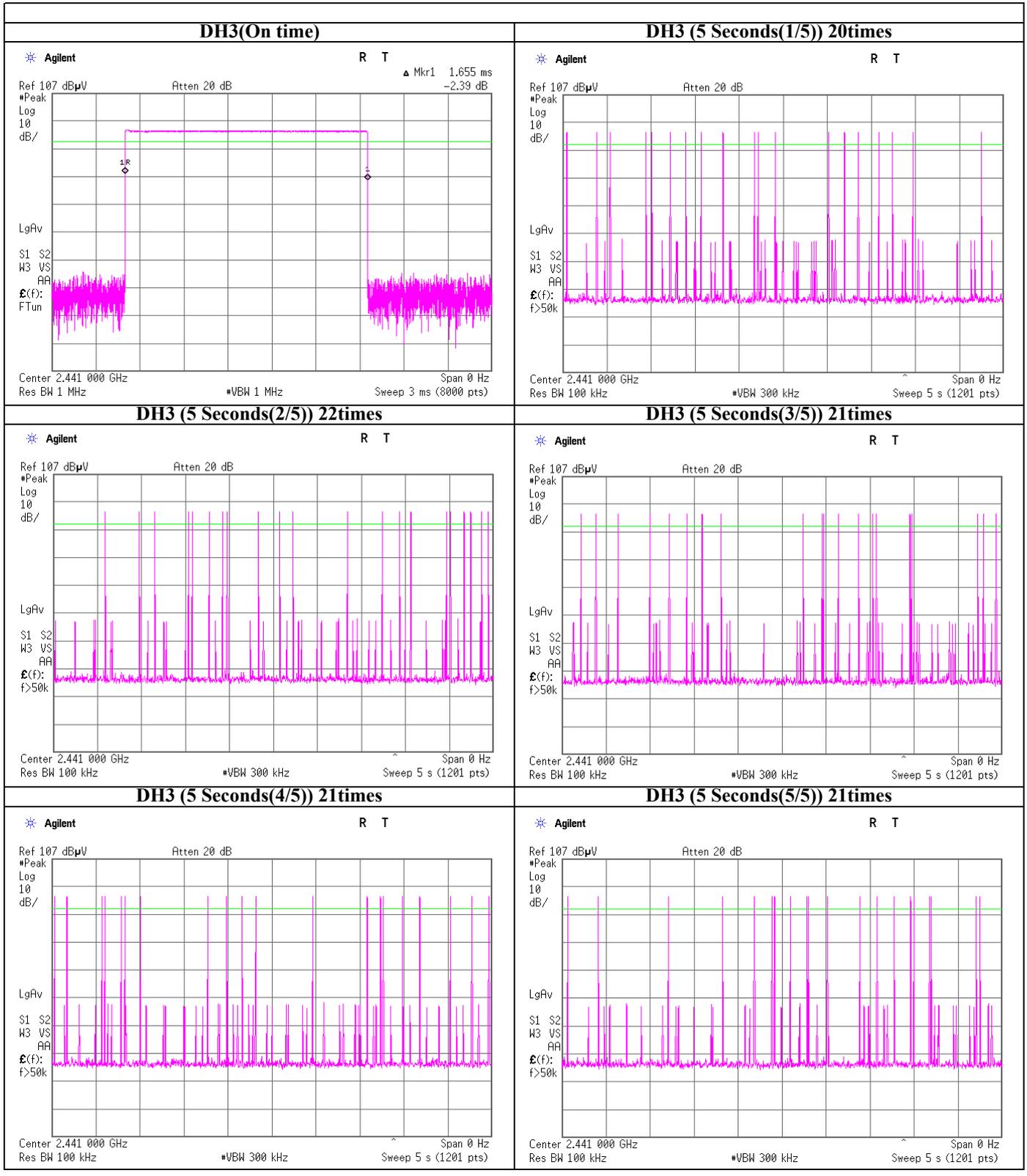
Dwell time



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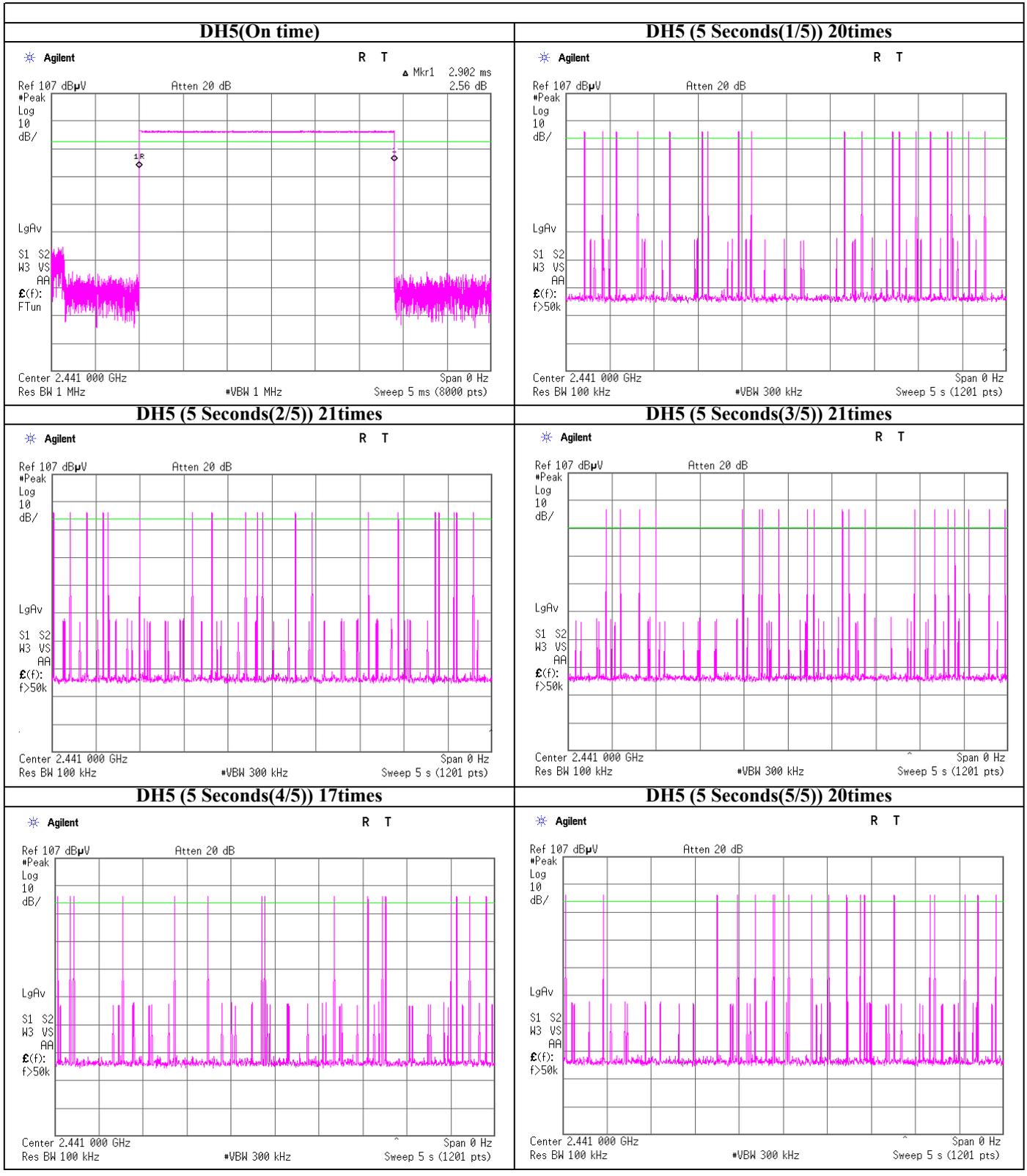
Dwell time



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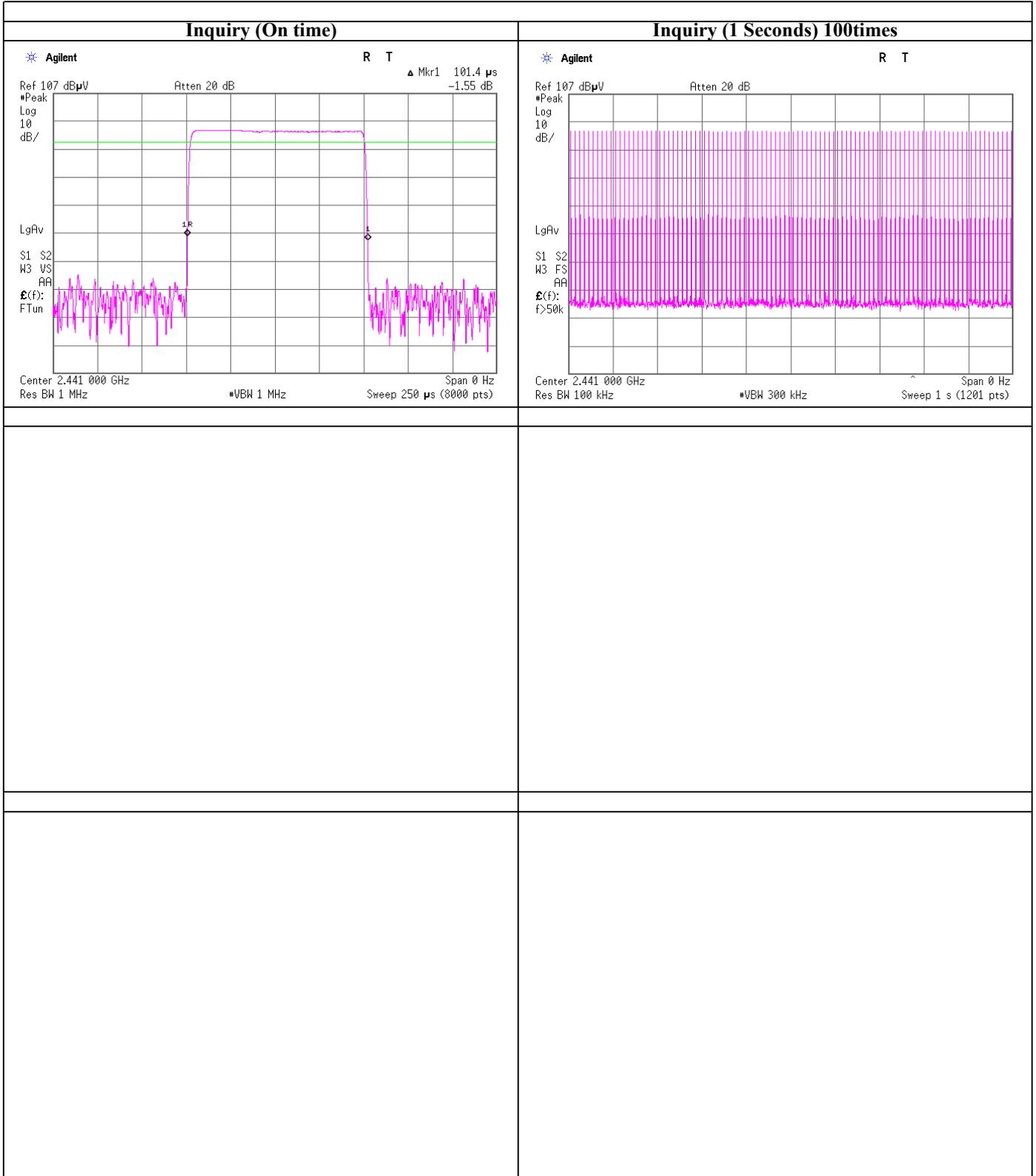
Dwell time



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Dwell time



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Peak Output Power (Conducted)

Test place : UL Japan, Inc. Shonan EMC Lab. No.3 Shielded Room
Date : 2010/9/23
Temperature / Humidity : 25deg.C , 52%
Engineer : Akio Hayashi
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	-3.19	0.74	0.00	-2.45	0.57	20.97	125	23.42
Mid	2441.0	-2.85	0.74	0.00	-2.11	0.62	20.97	125	23.08
High	2480.0	-2.10	0.74	0.00	-1.36	0.73	20.97	125	22.33
Inquiry	-	-2.15	0.74	0.00	-1.41	0.72	20.97	125	22.38

Sample Calculation:

*Result = Reading + Cable Loss (customer supplied)

* 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.

*Test was not performed at AFH mode, because the decrease of number of channel (min: 20ch) at AFH mode does not influence on the output power and bandwidth of the EUT. However, the limit level 125mW of AFH mode was used for the test.

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Radiated Emission

Test place : UL Japan, Inc. Shonan EMC Lab. No.3 Semi Anechoic Chamber
 Date : 2010/9/21, 2010/9/22
 Temperature / Humidity : 27deg.C. / 41%, 22deg.C. / 54%
 Engineer : Akio Hayashi, Akio Hayashi
 (above1GHz) (below 1GHz)
 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.	105.867	QP	46.2	11.2	7.2	32.1	32.5	43.5	11	165	359	
Hori.	344.784	QP	32.6	15.1	8.6	31.9	24.4	46	21.6	100	47	
Hori.	441.922	QP	26.7	16.9	9.1	31.9	20.8	46	25.2	100	314	
Hori.	900.009	QP	27	21.8	10.7	31	28.5	46	17.5	100	92	
Hori.	984.007	QP	26.2	22.7	10.9	30.3	29.5	53.9	24.4	100	104	
Hori.	2390	PK	46.8	27.5	13.3	40.2	47.4	73.9	26.5	100	114	
Hori.	2400	PK	51.2	27.5	13.3	40.2	51.8	-	-	100	114	See 20dBc data sheet
Hori.	4804	PK	46.3	31.5	5.5	40.1	43.2	73.9	30.7	100	147	
Hori.	7206	PK	46.5	36.4	6.7	38.3	51.3	73.9	22.6	100	0	Not Detected
Hori.	9608	PK	44.2	37.9	7.8	37.3	52.6	73.9	21.3	100	0	Not Detected
Hori.	12010	PK	46	39.4	9	38.4	56	73.9	17.9	100	0	Not Detected
Hori.	24020	PK	44.9	39.7	7.4	46.8	45.2	83.5	38.3	100	0	Not Detected
Hori.	2390	AV	35.6	27.5	13.3	40.2	36.2	53.9	17.7	100	114	
Hori.	2400	AV	39.2	27.5	13.3	40.2	39.8	-	-	100	114	See 20dBc data sheet
Hori.	4804	AV	35.8	31.5	5.5	40.1	32.7	53.9	21.2	100	147	
Hori.	7206	AV	33.8	36.4	6.7	38.3	38.6	53.9	15.3	100	0	Not Detected
Hori.	9608	AV	32.2	37.9	7.8	37.3	40.6	53.9	13.3	100	0	Not Detected
Hori.	12010	AV	34.3	39.4	9	38.4	44.3	53.9	9.6	100	0	Not Detected
Hori.	24020	AV	41.2	39.7	7.4	46.8	41.5	63.5	22	100	0	Not Detected
Vert.	42.596	QP	27.8	13.7	6.7	32.1	16.1	40	23.9	100	256	
Vert.	197.267	QP	39.2	16.7	7.9	32	31.8	43.5	11.7	136	359	
Vert.	441.922	QP	23.8	16.9	9.1	31.9	17.9	46	28.1	100	122	
Vert.	2390	PK	46.1	27.5	13.3	40.2	46.7	73.9	27.2	100	20	
Vert.	2400	PK	45.5	27.5	13.3	40.2	46.1	-	-	100	20	See 20dBc data sheet
Vert.	4804	PK	46.9	31.5	5.5	40.1	43.8	73.9	30.1	100	54	
Vert.	7206	PK	45.9	36.4	6.7	38.3	50.7	73.9	23.2	100	0	Not Detected
Vert.	9608	PK	44.1	37.9	7.8	37.3	52.5	73.9	21.4	100	0	Not Detected
Vert.	12010	PK	47.3	39.4	9	38.4	57.3	73.9	16.6	100	0	Not Detected
Vert.	24020	PK	43.2	39.7	7.4	46.8	43.5	83.5	40	100	0	Not Detected
Vert.	2390	AV	34.1	27.5	13.3	40.2	34.7	53.9	19.2	100	20	
Vert.	2400	AV	35.7	27.5	13.3	40.2	36.3	-	-	100	20	See 20dBc data sheet
Vert.	4804	AV	35.4	31.5	5.5	40.1	32.3	53.9	21.6	100	54	
Vert.	7206	AV	34.9	36.4	6.7	38.3	39.7	53.9	14.2	100	0	Not Detected
Vert.	9608	AV	32.1	37.9	7.8	37.3	40.5	53.9	13.4	100	0	Not Detected
Vert.	12010	AV	34.3	39.4	9	38.4	44.3	53.9	9.6	100	0	Not Detected
Vert.	24020	AV	41.8	39.7	7.4	46.8	42.1	63.5	21.4	100	0	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 [MHz]	Detector	Reading [dBuV]	Ant Factor [dB/m]	Loss [dB]	Gain [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori.	2402.000	PK	87	27.5	13.3	40.2	87.6	-	-	Carrier
Hori.	2400.000	PK	39.3	27.5	13.3	40.2	39.9	67.6	27.7	
Vert.	2402.000	PK	90.8	27.5	13.3	40.2	91.4	-	-	Carrier
Vert.	2400.000	PK	39.5	27.5	13.3	40.2	40.1	71.4	31.3	

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

Radiated Emission

Test place UL Japan, Inc. Shonan EMC Lab. No.3 Semi Anechoic Chamber
 Date 2010/9/21, 2010/9/22
 Temperature / Humidity 27deg.C. / 41%, 22deg.C. / 54%
 Engineer Akio Hayashi, Akio Hayashi
 (above1GHz) (below 1GHz)
 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.	107.274	QP	45.6	11.4	7.3	32.1	32.2	43.5	11.3	151	46	
Hori.	231.806	QP	38.2	17.2	8.1	32	31.5	46	14.5	128	119	
Hori.	441.922	QP	26.7	16.9	9.1	31.9	20.8	46	25.2	100	165	
Hori.	900	QP	27.5	21.8	10.7	31	29	46	17	109	352	
Hori.	984.003	QP	26	22.7	10.9	30.3	29.3	53.9	24.6	100	105	
Hori.	4882	PK	46.3	31.7	5.6	40	43.6	73.9	30.3	102	139	
Hori.	7323	PK	43.6	36.7	6.9	38.5	48.7	73.9	25.2	100	0	Not Detected
Hori.	9764	PK	43.3	38.2	7.8	37.4	51.9	73.9	22	100	0	Not Detected
Hori.	12205	PK	43.2	39.2	9.1	38.1	53.4	73.9	20.5	100	0	Not Detected
Hori.	24410.000	PK	43.6	40.1	7.4	46.5	44.6	83.5	38.9	100	0	Not Detected
Hori.	4882	AV	33.6	31.7	5.6	40	30.9	53.9	23	102	139	
Hori.	7323	AV	29.9	36.7	6.9	38.5	35	53.9	18.9	100	0	Not Detected
Hori.	9764	AV	29.5	38.2	7.8	37.4	38.1	53.9	15.8	100	0	Not Detected
Hori.	12205	AV	32.2	39.2	9.1	38.1	42.4	53.9	11.5	100	0	Not Detected
Hori.	24410.000	AV	32.3	40.1	7.4	46.5	33.3	63.5	30.2	100	0	Not Detected
Vert.	45.922	QP	32.5	12.4	6.7	32.1	19.5	40	20.5	100	18	
Vert.	129.708	QP	37.2	14	7.4	32.1	26.5	43.5	17	100	359	
Vert.	441.922	QP	23.2	16.9	9.1	31.9	17.3	46	28.7	100	282	
Vert.	4882	PK	44.4	31.7	5.6	40	41.7	73.9	32.2	100	207	
Vert.	7323	PK	44	36.7	6.9	38.5	49.1	73.9	24.8	100	0	Not Detected
Vert.	9764.000	PK	42.5	38.2	7.8	37.4	51.1	73.9	22.8	100	0	Not Detected
Vert.	12205.000	PK	43.7	39.2	9.1	38.1	53.9	73.9	20.0	100	0	Not Detected
Vert.	24410.000	PK	43.8	40.1	7.4	46.5	44.8	83.5	38.7	100	0	Not Detected
Vert.	4882	AV	33.5	31.7	5.6	40	30.8	53.9	23.1	100	207	
Vert.	7323.000	AV	30.9	36.7	6.9	38.5	36	53.9	17.9	100	0	Not Detected
Vert.	9764.000	AV	30.9	38.2	7.8	37.4	39.5	53.9	14.4	100	0	Not Detected
Vert.	12205.000	AV	32.2	39.2	9.1	38.1	42.4	53.9	11.5	100	0	Not Detected
Vert.	24410.000	AV	32.4	40.1	7.4	46.5	33.4	63.5	30.1	100	0	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

Radiated Emission

Test place UL Japan, Inc. Shonan EMC Lab. No.3 Semi Anechoic Chamber
 Date 2010/9/21, 2010/9/22
 Temperature / Humidity 27deg.C. / 41%, 22deg.C. / 54%
 Engineer Akio Hayashi, Akio Hayashi
 (above1GHz) (below 1GHz)
 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.	107.266	QP	45.8	11.4	7.3	32.1	32.4	43.5	11.1	180	17	
Hori.	347.886	QP	29.4	15.2	8.6	31.9	21.3	46	24.7	100	294	
Hori.	441.922	QP	26.8	16.9	9.1	31.9	20.9	46	25.1	100	313	
Hori.	899.998	QP	27	21.8	10.7	31	28.5	46	17.5	100	95	
Hori.	984.014	QP	25.7	22.7	10.9	30.3	29	53.9	24.9	100	108	
Hori.	2483.5	PK	44.4	27.6	13.4	40.1	45.3	73.9	28.6	100	75	
Hori.	4960	PK	44.7	31.9	5.6	40	42.2	73.9	31.7	100	147	
Hori.	7440	PK	44.1	36.9	7.1	38.7	49.4	73.9	24.5	100	0	Not Detected
Hori.	9920	PK	41.6	38.4	8	37.5	50.5	73.9	23.4	100	0	Not Detected
Hori.	12400	PK	44.4	39.1	9.4	37.9	55	73.9	18.9	100	0	Not Detected
Hori.	24800	PK	44.2	40.6	7.4	46.6	45.6	83.5	37.9	100	0	Not Detected
Hori.	2483.5	AV	34.1	27.6	13.4	40.1	35	53.9	18.9	100	75	
Hori.	4960	AV	33.4	31.9	5.6	40	30.9	53.9	23	100	147	
Hori.	7440	AV	32.1	36.9	7.1	38.7	37.4	53.9	16.5	100	0	Not Detected
Hori.	9920	AV	29.8	38.4	8	37.5	38.7	53.9	15.2	100	0	Not Detected
Hori.	12400	AV	32.2	39.1	9.4	37.9	42.8	53.9	11.1	100	0	Not Detected
Hori.	24800	AV	32.5	40.6	7.4	46.6	33.9	63.5	29.6	100	0	Not Detected
Vert.	131.153	QP	36.9	14.1	7.4	32.1	26.3	43.5	17.2	100	77	
Vert.	197.271	QP	38.8	16.7	7.9	32	31.4	43.5	12.1	100	9	
Vert.	441.922	QP	24	16.9	9.1	31.9	18.1	46	27.9	100	113	
Vert.	2483.5	PK	43.4	27.6	13.4	40.1	44.3	73.9	29.6	100	321	
Vert.	4960	PK	45.3	31.9	5.6	40	42.8	73.9	31.1	100	47	
Vert.	7440	PK	44.5	36.9	7.1	38.7	49.8	73.9	24.1	100	0	Not Detected
Vert.	9920	PK	41	38.4	8	37.5	49.9	73.9	24	100	0	Not Detected
Vert.	12400	PK	43.5	39.1	9.4	37.9	54.1	73.9	19.8	100	0	Not Detected
Vert.	24800	PK	44	40.6	7.4	46.6	45.4	83.5	38.1	100	0	Not Detected
Vert.	2483.5	AV	34.2	27.6	13.4	40.1	35.1	53.9	18.8	100	321	
Vert.	4960	AV	33.9	31.9	5.6	40	31.4	53.9	22.5	100	47	
Vert.	7440	AV	32.4	36.9	7.1	38.7	37.7	53.9	16.2	100	0	Not Detected
Vert.	9920	AV	29.9	38.4	8	37.5	38.8	53.9	15.1	100	0	Not Detected
Vert.	12400	AV	32.2	39.1	9.4	37.9	42.8	53.9	11.1	100	0	Not Detected
Vert.	24800	AV	32.5	40.6	7.4	46.6	33.9	63.5	29.6	100	0	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).

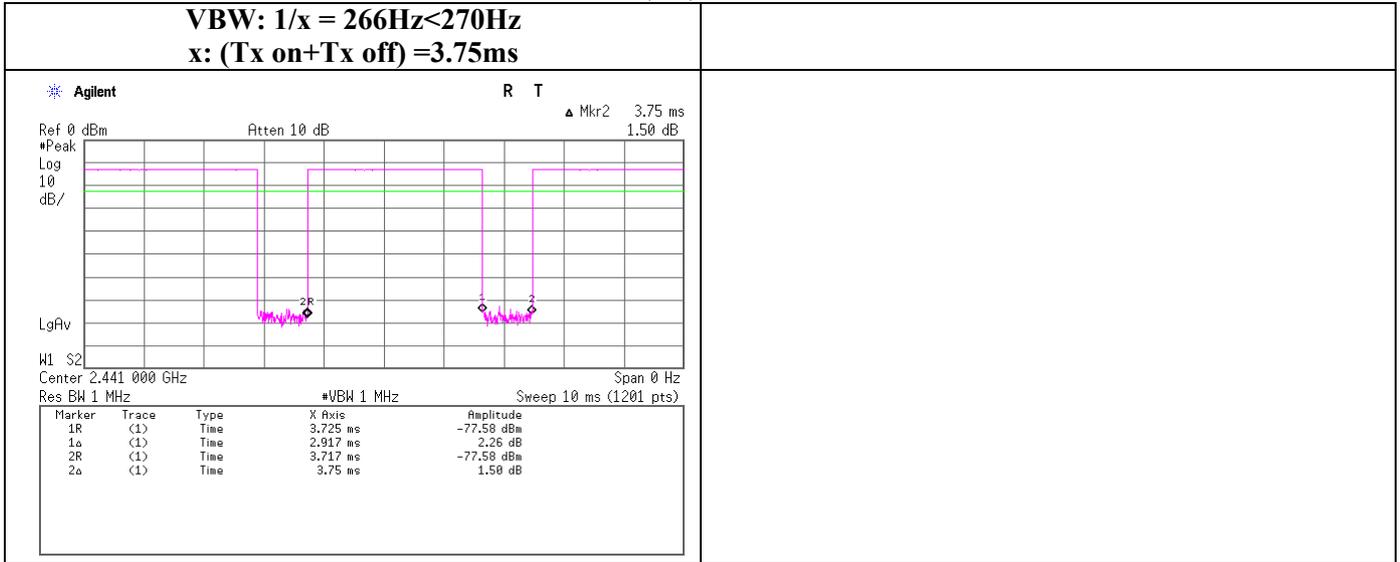
*The 3-10th harmonic was not seen so the result was its base noise level.

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

Spurious emission (Radiated)

DH5

VBW (AV) Calculation

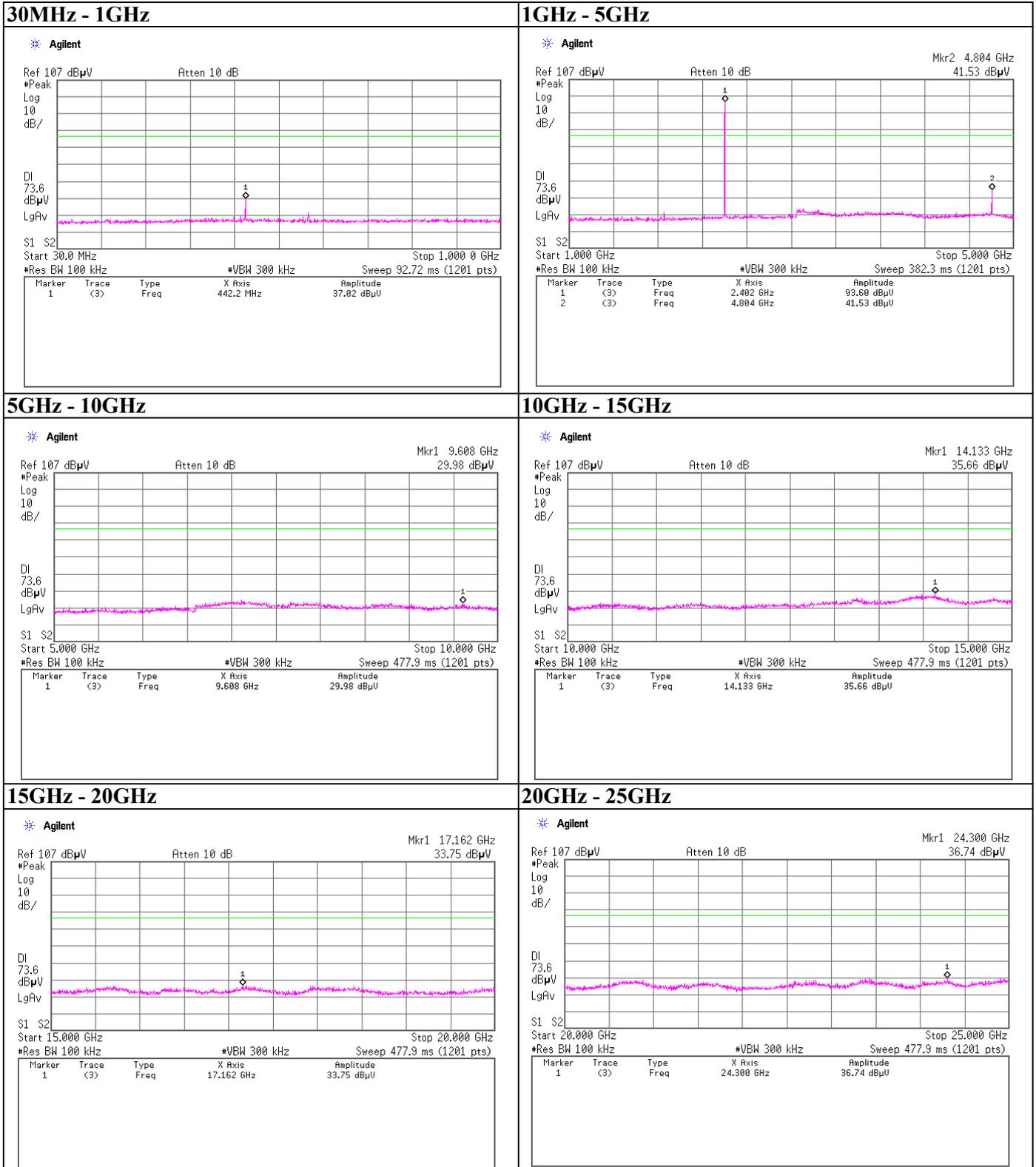


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Spurious emission (Conducted)

DH5
 Tx, 2402MHz

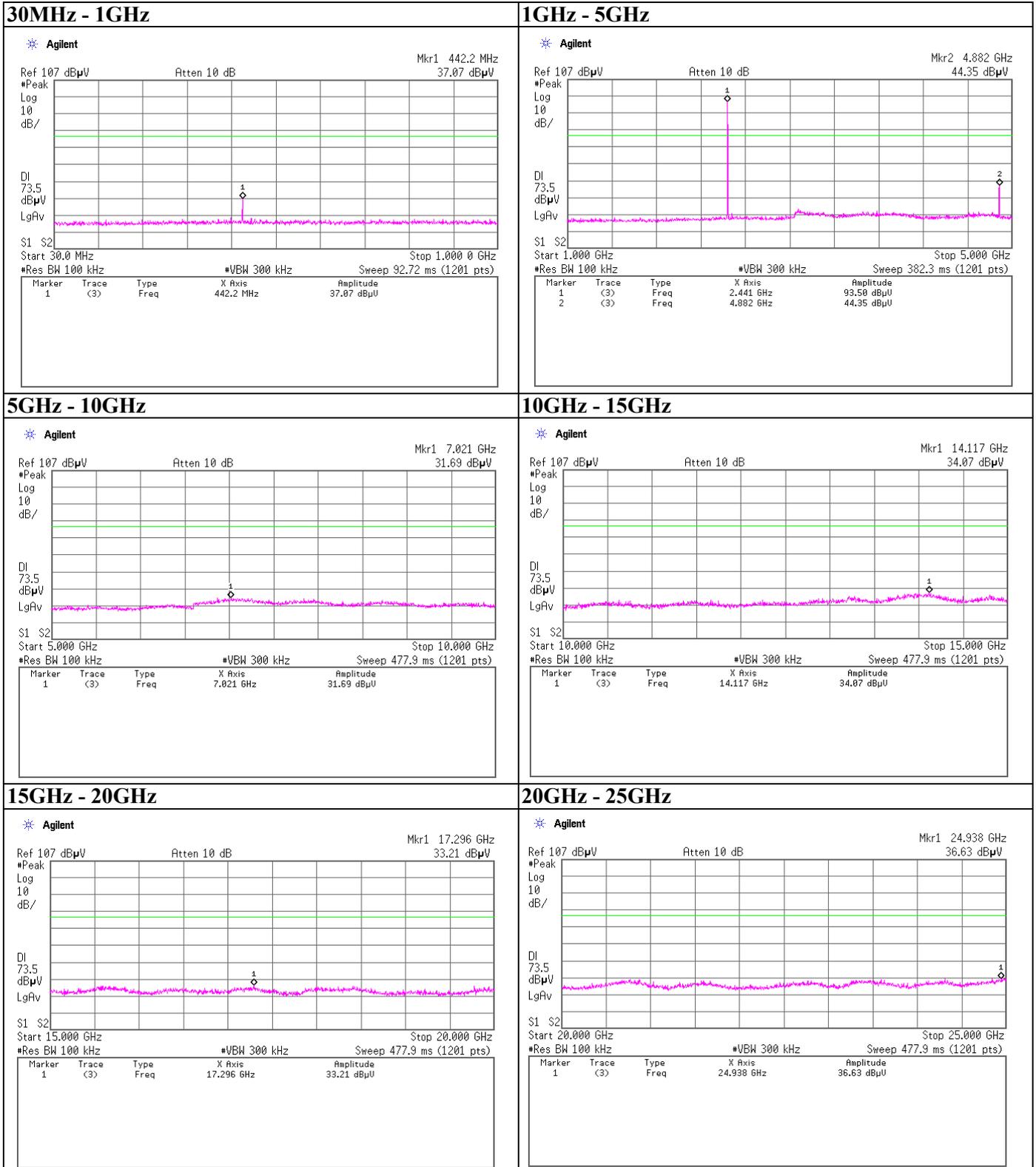


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Spurious emission (Conducted)

DH5
 Tx, 2441MHz

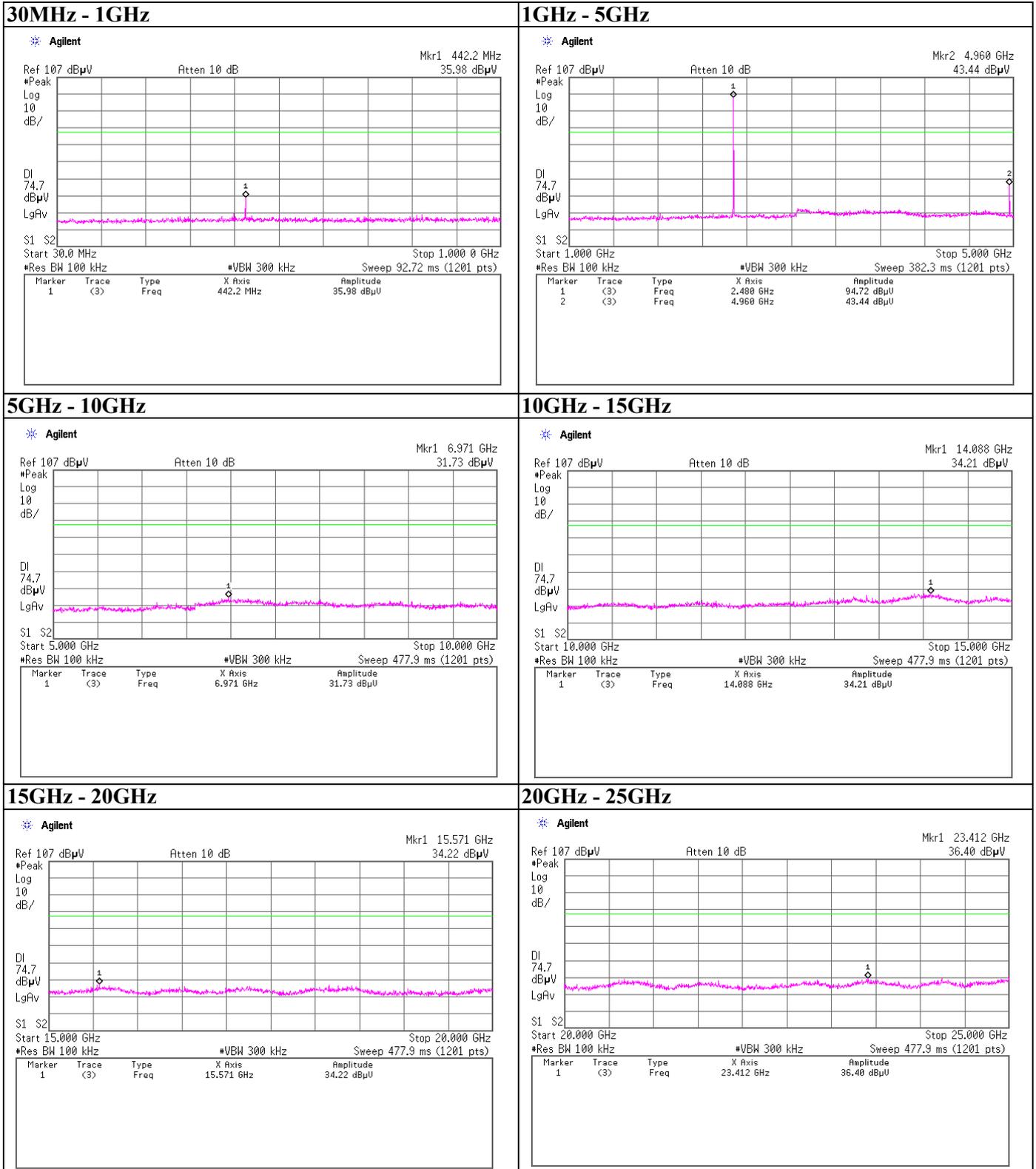


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Spurious emission (Conducted)

DH5
 Tx, 2480MHz



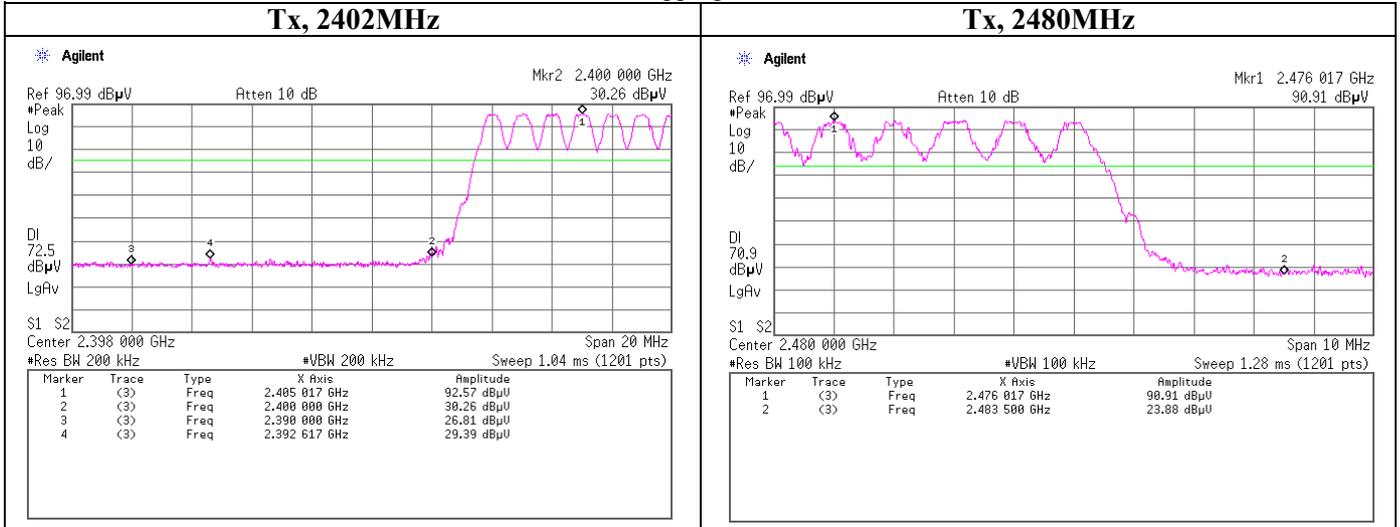
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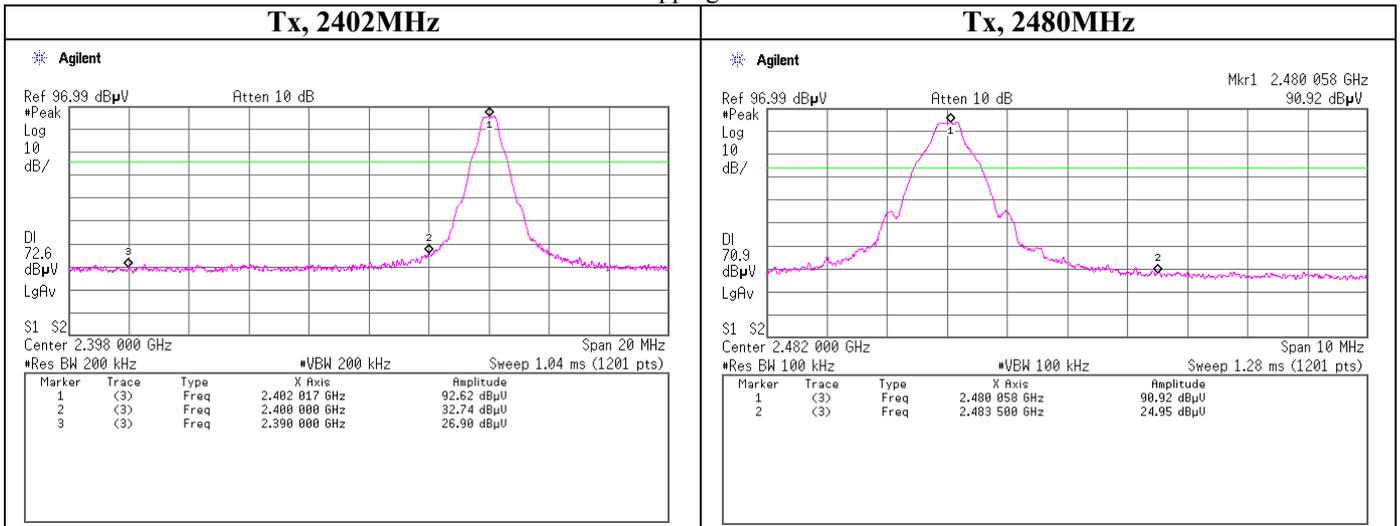
Spurious emission (Conducted)

Band Edge compliance
 DH5

Hopping ON



Hopping OFF

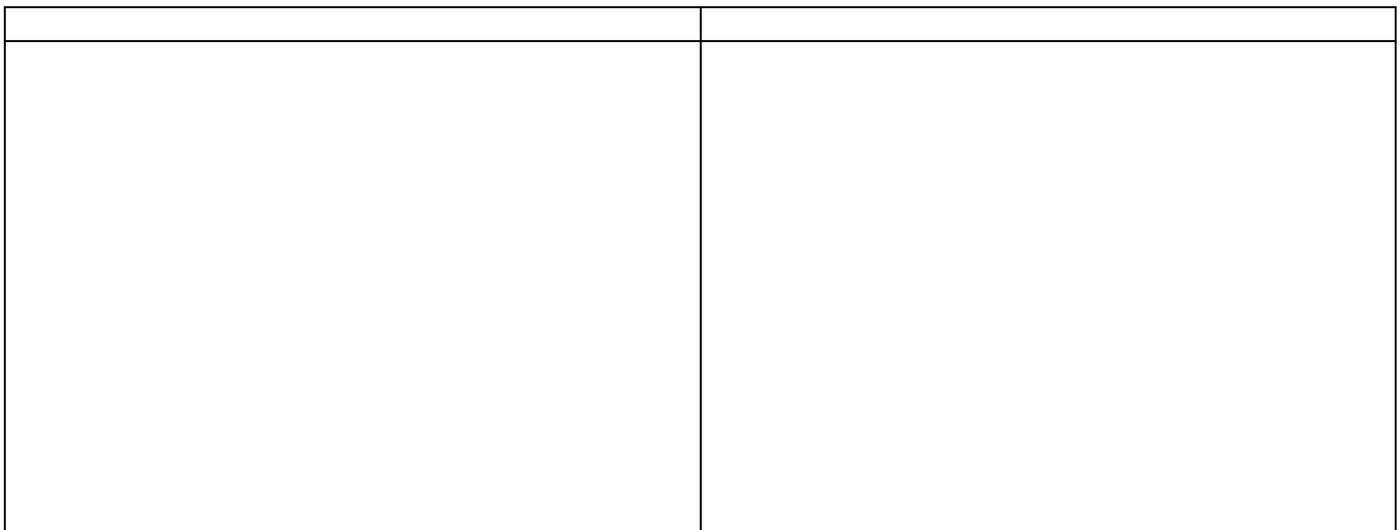
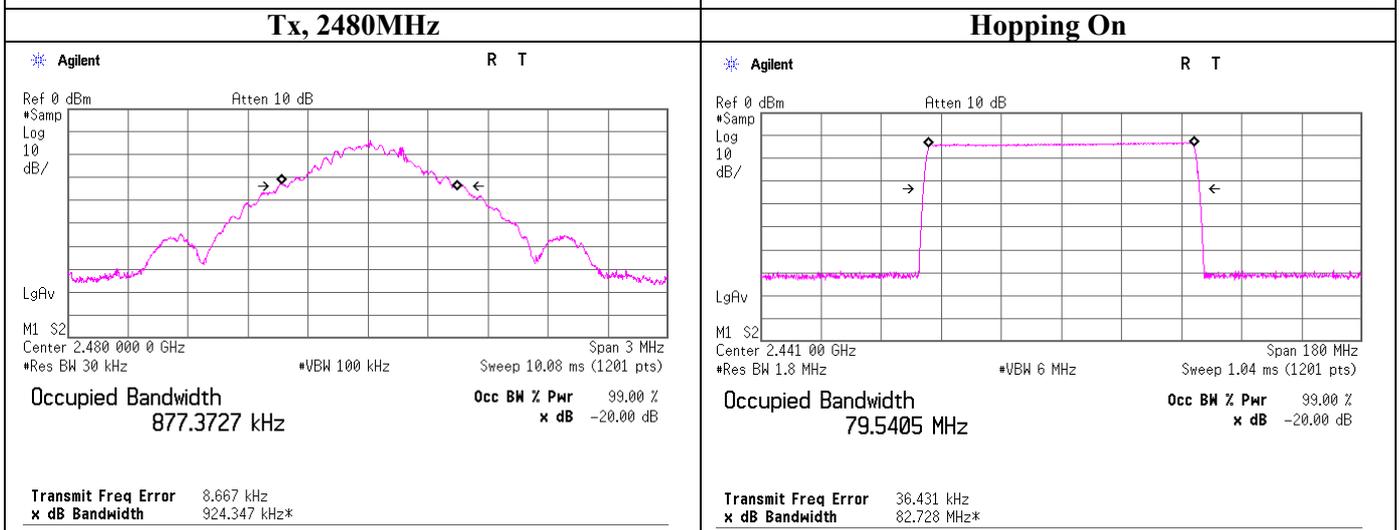
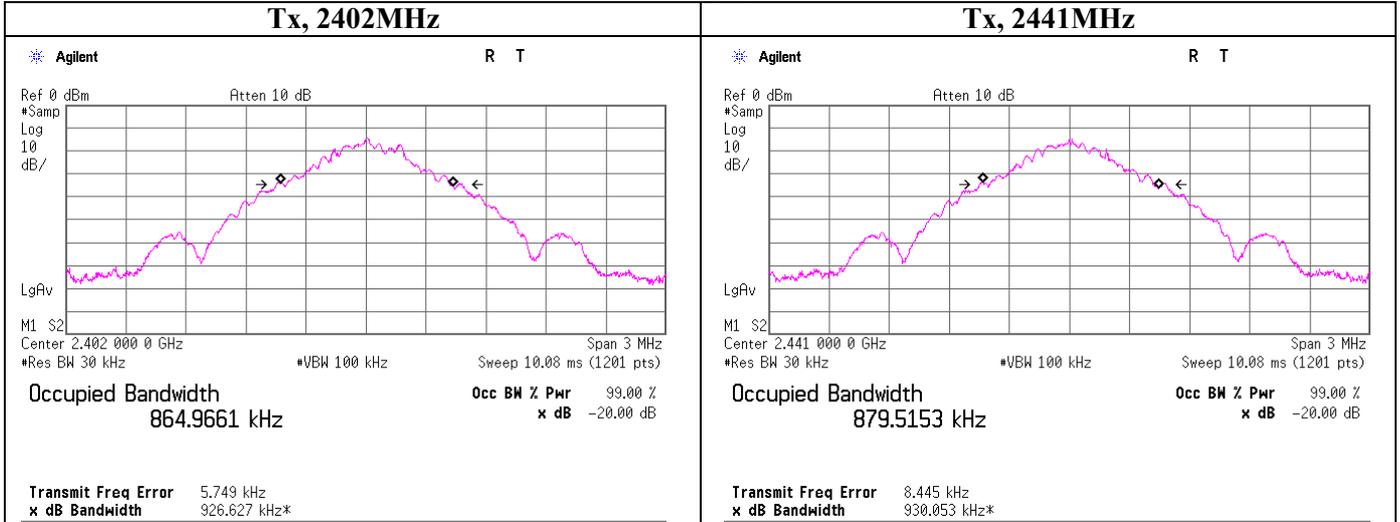


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99% Occupied Bandwidth

DH5, Hopping Off



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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)
SOS-06	Humidity Indicator	A&D	AD-5681	4062118	AT	2010/02/17 * 12
SAT10-08	Attenuator	Weinschel	W54-10	-	AT	2010/03/05 * 12
SCC-G11	Coaxial Cable	Suhner	SUCOFLEX 102	31595/2	AT	2010/03/31 * 12
SAF-06	Pre Amplifier	TOYO Corporation	TPA0118-36	1440491	RE	2010/03/09 * 12
SCC-G03	Coaxial Cable	Suhner	SUCOFLEX 104A	46499/4A	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
SSA-03	Spectrum Analyzer	Agilent	E4448A	MY48250152	RE/AT	2009/06/09 * 24
SJM-10	Measure	PROMART	SEN1935	-	RE	-
COTS-SEMI-1	EMI Software	TSJ	TEPTO-DV	-	RE	-
SAT10-04	Attenuator(above1GHz)	Agilent	8493C-010	74863	RE/AT	2010/03/05 * 12
SFL-02	Highpass Filter	MICRO-TRONICS	HPM50111	051	RE	2009/12/04 * 12
SHA-05	Horn Antenna	ETS LINDGREN	3160-09	LM4210	RE	2010/03/29 * 12
SCC-G18	Coaxial Cable	Suhner	SUCOFLEX 104A	46292/4A	RE	2010/03/02 * 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	2010/03/22 * 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	2010/03/22 * 12
STR-03	Test Receiver	Rohde & Schwarz	ES140	100054/040	RE	2010/07/21 * 12
SAEC-03(NSA)	Semi-Anechoic Chamber	TDK	SAEC-03(NSA)	3	RE	2009/09/18 * 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

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,
AT: Antenna terminal disturbance voltage