

APPENDIX 2: Data of EMI test

Conducted Emission

DATA OF CONDUCTED EMISSION TEST

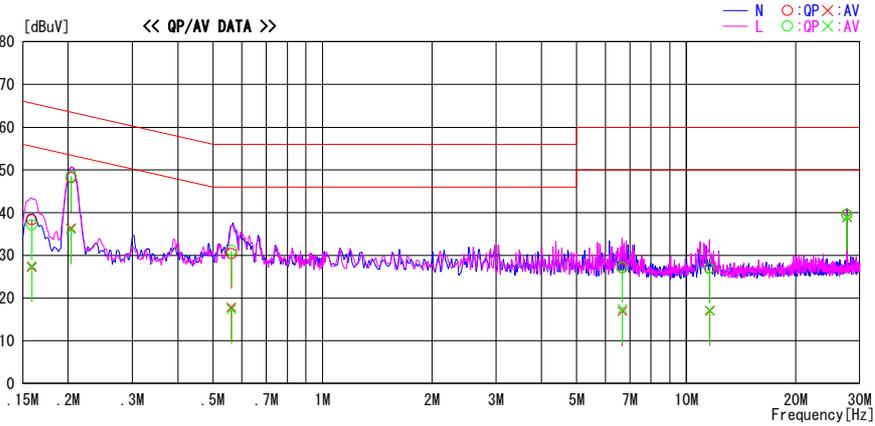
UL Japan, Inc. Head Office EMC Lab. No. 4 Semi Anechoic Chamber
 Date : 2010/09/25

Report No. : 31BE0147-H0-01

Temp./Humi. : 23deg. C / 66%
 Engineer : Tomotaka Sasagawa

Mode / Remarks : Tx 5736MHz

LIMIT : FCC15.207 QP
 FCC15.207 AV

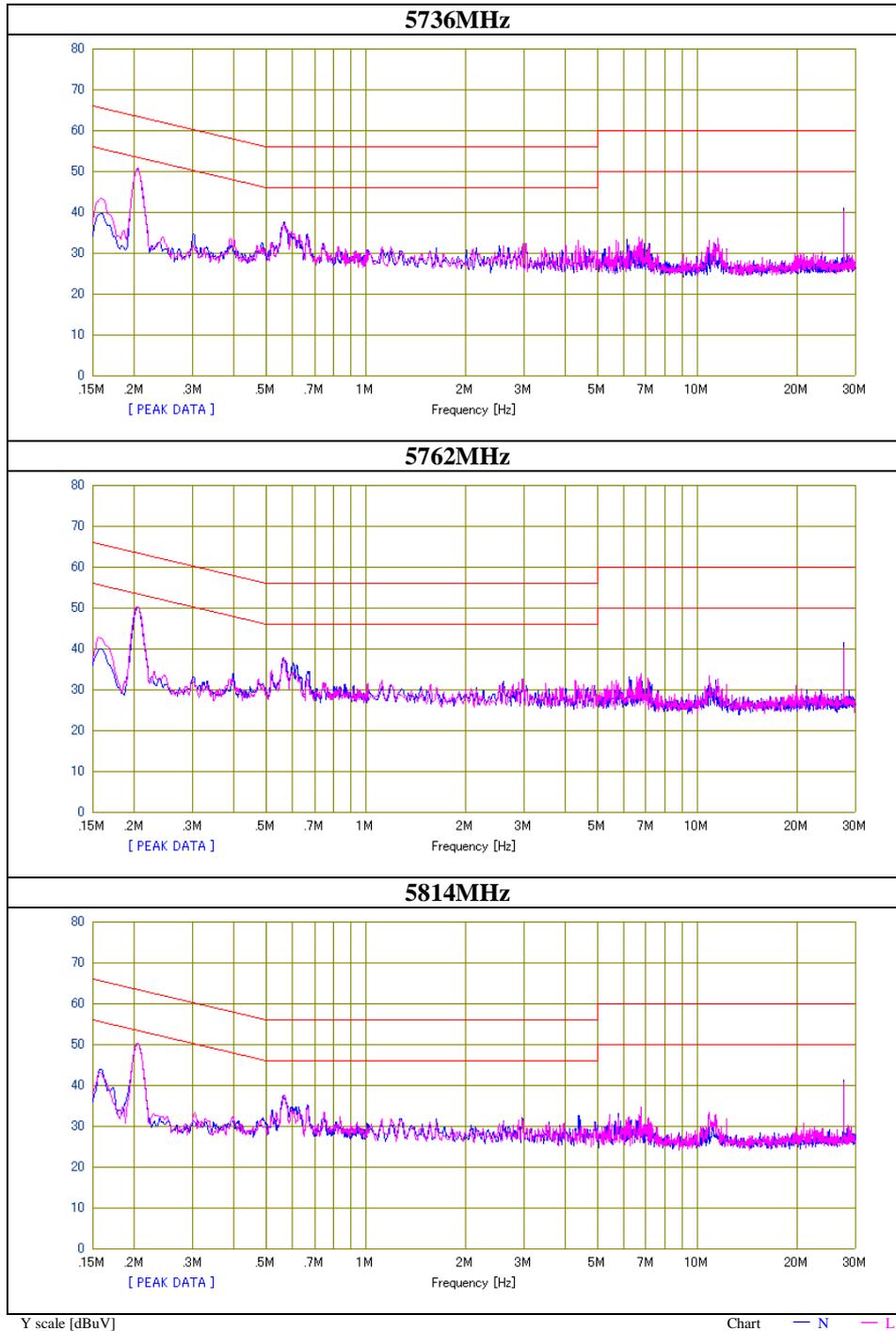


Frequency [MHz]	Reading Level		Corr. Factor [dB]	Results		Limit		Margin		Phase	Comment
	QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dB]	AV [dB]		
0.15870	25.1	14.1	13.2	38.3	27.3	65.5	55.5	27.2	28.2	N	
0.20365	34.9	23.0	13.3	48.2	36.3	63.5	53.5	15.3	17.2	N	
0.56180	17.1	4.5	13.3	30.4	17.8	56.0	46.0	25.6	28.2	N	
6.67899	13.4	3.2	13.7	27.1	16.9	60.0	50.0	32.9	33.1	N	
11.62084	12.9	2.9	14.1	27.0	17.0	60.0	50.0	33.0	33.0	N	
27.66088	24.5	23.8	15.0	39.5	38.8	60.0	50.0	20.5	11.2	N	
0.15870	23.9	14.3	13.2	37.1	27.5	65.5	55.5	28.4	28.0	L	
0.20365	35.2	22.8	13.3	48.5	36.1	63.5	53.5	15.0	17.4	L	
0.56180	17.8	4.1	13.3	31.1	17.4	56.0	46.0	24.9	28.6	L	
6.67899	13.5	3.8	13.7	27.2	17.5	60.0	50.0	32.8	32.5	L	
11.58742	12.8	3.1	14.1	26.9	17.2	60.0	50.0	33.1	32.8	L	
27.66088	24.5	24.0	15.0	39.5	39.0	60.0	50.0	20.5	11.0	L	

CHART: WITH FACTOR, Peak hold data. CALCULATION: RESULT[dBuV]=READING[dBuV]+C.F[dB] (LISN LOSS+CABLE LOSS)
 Except for the above table : adequate margin data below the limits.

Conducted Emission

Test place	Head Office EMC Lab. No.4 Semi Anechoic Chamber
Report No.	31BE0147-HO-01
Date	09/24/2010
Temperature/ Humidity	23 deg.C./ 66%
Engineer	Tomotaka Sasagawa
Mode	Tx



Conducted Emission

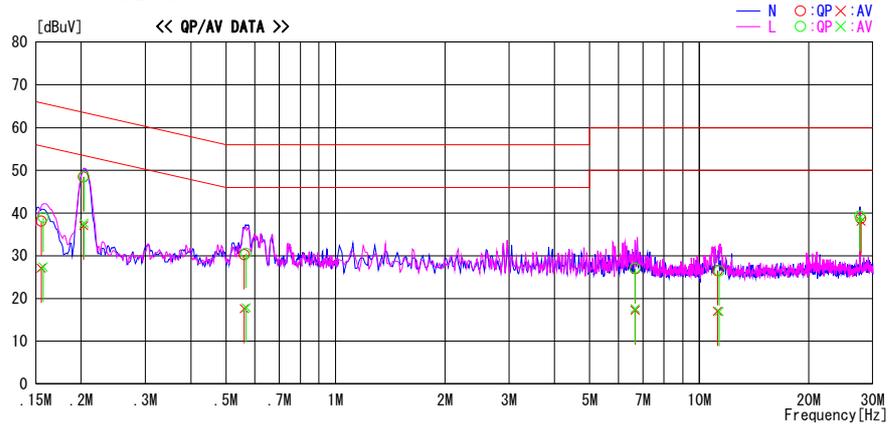
DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No. 4 Semi Anechoic Chamber
 Date : 2010/09/25

Report No. : 31BE0147-H0-01
 Temp./Humi. : 23deg. C / 66%
 Engineer : Tomotaka Sasagawa

Mode / Remarks : Rx 5762MHz

LIMIT : FCC15.207 QP
 FCC15.207 AV



Frequency [MHz]	Reading Level		Corr. [dB]	Results		Limit		Margin		Phase	Comment
	QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dB]	AV [dB]		
0.15521	24.9	13.9	13.2	38.1	27.1	65.7	55.7	27.6	28.6	N	
0.20310	35.1	23.8	13.3	48.4	37.1	63.5	53.5	15.1	16.4	N	
0.56142	16.9	4.3	13.3	30.2	17.6	56.0	46.0	25.8	28.4	N	
6.66642	13.2	3.6	13.7	26.9	17.3	60.0	50.0	33.1	32.7	N	
11.23130	12.4	2.9	14.1	26.5	17.0	60.0	50.0	33.5	33.0	N	
27.83213	23.7	23.1	15.0	38.7	38.1	60.0	50.0	21.3	11.9	N	
0.15725	25.8	14.2	13.2	39.0	27.4	65.6	55.6	26.6	28.2	L	
0.20365	35.2	24.3	13.3	48.5	37.6	63.5	53.5	15.0	15.9	L	
0.56760	17.2	4.5	13.3	30.5	17.8	56.0	46.0	25.5	28.2	L	
6.66388	13.4	3.9	13.7	27.1	17.6	60.0	50.0	32.9	32.4	L	
11.35350	12.3	2.8	14.1	26.4	16.9	60.0	50.0	33.6	33.1	L	
27.66088	24.3	24.1	15.0	39.3	39.1	60.0	50.0	20.7	10.9	L	

CHART: WITH FACTOR Peak hold data. CALCULATION: RESULT [dBuV] = READING [dBuV] + C. F [dB] (LISN LOSS + CABLE LOSS)
 Except for the above table : adequate margin below the limits.

6dB Bandwidth

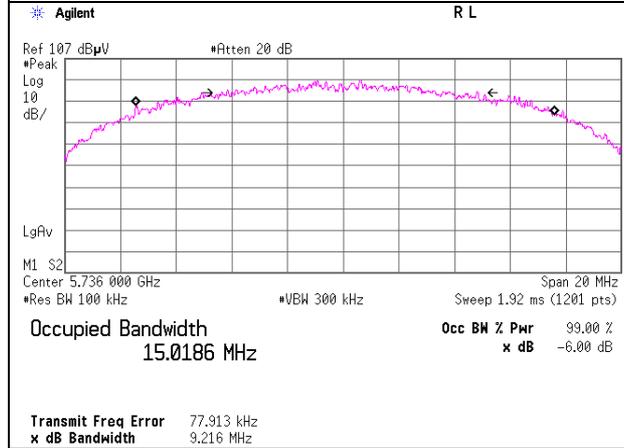
Test place Head Office EMC Lab. No.11 Measurement Room
Report No. 31BE0147-HO-01
Date 09/20/2010
Temperature/ Humidity 22 deg.C./ 55%
Engineer Hiroshi Kukita
Mode Tx

Frequency [MHz]	6dB Bandwidth [MHz]	Limit [kHz]
5736	9.216	>500
5762	8.500	>500
5814	10.026	>500

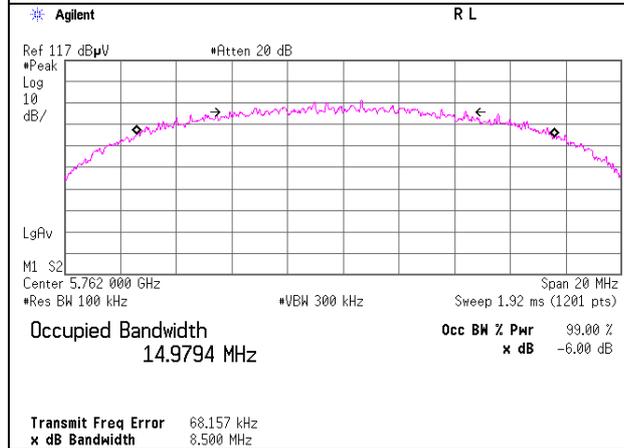
6dB Bandwidth

Tx

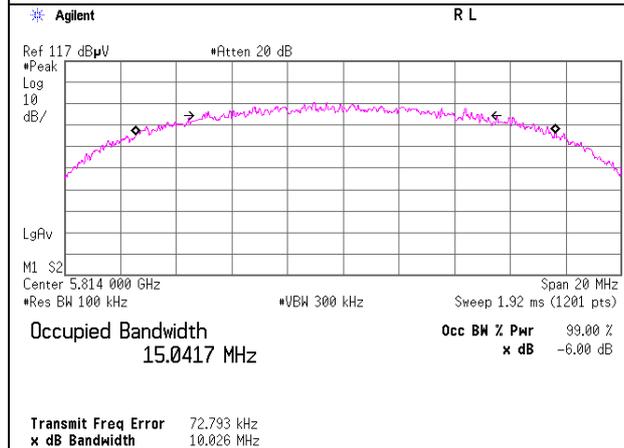
5736MHz



5762MHz



5814MHz



Maximum Peak Output Power

Test place Head Office EMC Lab. No.11 Measurement Room
Report No. 31BE0147-HO-01
Date 09/20/2010
Temperature/ Humidity 22 deg.C./ 55%
Engineer Hiroshi Kukita
Mode Tx

Antenna A

Freq. [MHz]	Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result		Limit		Margin [dB]
				[dBm]	[mW]	[dBm]	[mW]	
5736	2.31	2.87	10.04	15.22	33.27	30.00	1000	14.78
5762	2.49	2.87	10.04	15.40	34.67	30.00	1000	14.60
5814	2.85	2.87	10.05	15.77	37.76	30.00	1000	14.23

Antenna B

Freq. [MHz]	Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result		Limit		Margin [dB]
				[dBm]	[mW]	[dBm]	[mW]	
5736	2.32	2.87	10.04	15.23	33.34	30.00	1000	14.77
5762	2.65	2.87	10.04	15.56	35.97	30.00	1000	14.44
5814	3.63	2.87	10.05	16.55	45.19	30.00	1000	13.45

Sample Calculation:

Result = Reading + Cable Loss (including the cable(s) customer supplied) + Attenuator

Radiated Spurious Emission

Test place Head Office EMC Lab. No.3 Semi Anechoic Chamber
Report No. 31BE0147-HO-01
Date 09/22/2010 09/24/2010
Temperature/ Humidity 23 deg.C./ 55% 23 deg.C./ 66%
Engineer Tomotaka Sasagawa Tomotaka Sasagawa
(1-18GHz) (30-1000MHz,18-40GHz)
Mode Tx 5736MHz

20dBc Data Sheet

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant Factor [dB/m]	Loss [dB]	Gain [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori	5736.000	PK	92.9	32.7	4.2	31.9	97.9	-	-	Carrier
Hori	76.766	PK	41.2	6.5	7.7	32.1	23.3	77.9	54.6	
Hori	5721.531	PK	66.2	31.2	3.6	31.2	69.8	77.9	8.1	
Hori	5725.000	PK	54.9	31.2	3.6	31.2	58.5	77.9	19.4	
Hori	17208.000	PK	40.8	43.1	-0.4	32.3	51.2	77.9	26.7	
Vert	5736.000	PK	89.5	32.7	4.2	31.9	94.5	-	-	Carrier
Vert	76.840	PK	58.1	6.5	7.7	32.1	40.2	74.5	34.3	
Vert	5721.750	PK	63.3	32.7	4.2	31.9	68.3	74.5	6.2	
Vert	5725.000	PK	53.8	32.7	4.2	31.9	58.8	74.5	15.7	
Vert	17208.000	PK	41.2	43.1	-0.4	32.3	51.6	74.5	22.9	

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter-Distance factor(above 10GHz)) - Gain(Amplifier)

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter-Distance factor(above 10GHz))
- Gain(Amplifier) + Dwell time factor (Refer to dwell time data sheet)

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

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

Distance factor: 10GHz-26.5GHz 20log(3.0m/1.0m)= 9.5dB
26.5GHz-40GHz 20log(3.0m/0.5m)=15.6dB

Radiated Spurious Emission

Test place Head Office EMC Lab. No.3 and No.4 Semi Anechoic Chamber
Report No. 31BE0147-HO-01
Date 09/22/2010 09/24/2010
Temperature/ Humidity 23 deg.C./ 55% 23 deg.C./ 66%
Engineer Tomotaka Sasagawa Tomotaka Sasagawa
(1-18GHz) (30-1000MHz,18-40GHz)
Mode Tx 5762MHz

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori	64.514	QP	51.0	7.3	7.5	32.0	33.8	40.0	6.2	See 20dBc Data Sheet
Hori	76.421	QP	40.9	6.5	7.7	32.1	23.0	-	-	
Hori	110.321	QP	45.1	11.9	8.1	32.0	33.1	43.5	10.4	
Hori	135.413	QP	34.9	14.2	8.3	31.9	25.5	43.5	18.0	
Hori	147.321	QP	39.1	14.9	8.4	31.9	30.5	43.5	13.0	
Hori	250.321	QP	41.0	17.4	9.3	31.9	35.8	46.0	10.2	
Hori	350.100	QP	33.4	16.8	10.0	31.9	28.3	46.0	17.7	
Hori	375.321	QP	40.8	17.2	10.2	31.9	36.3	46.0	9.7	
Hori	3840.000	PK	45.2	30.2	2.9	31.7	46.6	73.9	27.3	
Hori	11520.000	PK	56.0	39.5	-1.9	32.9	60.7	73.9	13.2	
Hori	17296.000	PK	53.8	43.9	-0.4	32.3	65.0	-	-	See 20dBc Data Sheet
Hori	3840.000	AV	33.5	30.2	3.6	31.6	35.7	53.9	18.2	See 20dBc Data Sheet
Hori	11520.000	AV	39.2	39.5	-1.9	32.9	43.9	53.9	10.0	
Hori	17296.000	AV	37.2	43.9	-0.4	32.3	48.4	-	-	
Vert	64.231	QP	48.1	7.4	7.5	32.0	31.0	40.0	9.0	See 20dBc Data Sheet
Vert	76.831	QP	56.1	6.5	7.7	32.1	38.2	-	-	
Vert	110.243	QP	49.7	11.9	8.1	32.0	37.7	43.5	5.8	
Vert	135.412	QP	45.1	14.2	8.3	31.9	35.7	43.5	7.8	
Vert	147.421	QP	46.1	14.9	8.4	31.9	37.5	43.5	6.0	
Vert	250.301	QP	37.1	17.4	9.3	31.9	31.9	46.0	14.1	
Vert	350.100	QP	34.1	16.8	10.0	31.9	29.0	46.0	17.0	
Vert	368.321	QP	34.6	17.1	10.1	31.9	29.9	46.0	16.1	
Vert	3840.000	PK	44.9	30.2	2.9	31.7	46.3	73.9	27.6	
Vert	11520.000	PK	62.5	39.5	-1.9	32.9	67.2	73.9	6.7	
Vert	17296.000	PK	56.4	43.9	-0.4	32.3	67.6	-	-	See 20dBc Data Sheet
Vert	3840.000	AV	34.2	30.2	3.6	31.6	36.4	53.9	17.5	See 20dBc Data Sheet
Vert	11520.000	AV	39.7	39.5	-1.9	32.9	44.4	53.9	9.5	
Vert	17296.000	AV	37.9	43.9	-0.4	32.3	49.1	-	-	

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter-Distance factor(above 10GHz)) - Gain(Amplifier)

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

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

Distance factor: 10GHz-26.5GHz 20log(3.0m/1.0m)= 9.5dB
26.5GHz-40GHz 20log(3.0m/0.5m)=15.6dB

Radiated Spurious Emission

Test place Head Office EMC Lab. No.3 and No.4 Semi Anechoic Chamber
Report No. 31BE0147-HO-01
Date 09/22/2010 09/24/2010
Temperature/ Humidity 23 deg.C./ 55% 23 deg.C./ 66%
Engineer Tomotaka Sasagawa Tomotaka Sasagawa
(1-18GHz) (30-1000MHz,18-40GHz)
Mode Tx 5762MHz

20dBc Data Sheet

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant Factor [dB/m]	Loss [dB]	Gain [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori	5762.000	PK	85.9	32.7	3.6	31.2	91.0	-	-	Carrier
Hori	76.421	PK	41.8	6.5	7.7	32.1	23.9	71.0	47.1	
Hori	17296.000	PK	42.1	43.9	-0.4	32.3	53.3	71.0	17.7	
Vert	5762.000	PK	82.8	32.7	3.6	31.2	87.9	-	-	Carrier
Vert	76.831	PK	57.9	6.5	7.7	32.1	40.0	67.9	27.9	
Vert	17296.000	PK	39.3	43.9	-0.4	32.3	50.5	67.9	17.4	

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter-Distance factor(above 10GHz)) - Gain(Amplifier)

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

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

Distance factor: 10GHz-26.5GHz 20log(3.0m/1.0m)= 9.5dB
26.5GHz-40GHz 20log(3.0m/0.5m)=15.6dB

Radiated Spurious Emission

Test place Head Office EMC Lab. No.3 and No.4 Semi Anechoic Chamber
Report No. 31BE0147-HO-01
Date 09/22/2010 09/24/2010
Temperature/ Humidity 23 deg.C./ 55% 23 deg.C./ 66%
Engineer Tomotaka Sasagawa Tomotaka Sasagawa
(1-18GHz) (30-1000MHz,18-40GHz)
Mode Tx 5814MHz

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori	64.514	QP	49.8	7.3	7.5	32.0	32.6	40.0	7.4	See 20dBc Data Sheet
Hori	76.766	QP	41.0	6.5	7.7	32.1	23.1	-	-	
Hori	110.593	QP	43.9	11.9	8.1	32.0	31.9	43.5	11.6	
Hori	135.313	QP	35.7	14.2	8.3	31.9	26.3	43.5	17.2	
Hori	147.321	QP	39.5	14.9	8.4	31.9	30.9	43.5	12.6	
Hori	250.412	QP	39.9	17.4	9.3	31.9	34.7	46.0	11.3	
Hori	318.600	QP	34.8	16.3	9.8	31.9	29.0	46.0	17.0	
Hori	375.141	QP	42.1	17.2	10.2	31.9	37.6	46.0	8.4	
Hori	3877.000	PK	45.2	30.2	3.6	31.6	47.4	73.9	26.5	See 20dBc Data Sheet
Hori	5329.000	PK	44.5	32.3	4.1	31.5	49.4	73.9	24.5	
Hori	5850.000	PK	48.2	32.9	3.6	31.1	53.6	73.9	20.3	
Hori	11624.000	PK	57.7	39.4	-1.9	32.9	62.3	73.9	11.6	
Hori	17456.000	PK	56.2	45.2	-0.4	32.2	68.8	-	-	
Hori	3877.000	AV	32.9	30.2	3.6	31.6	35.1	53.9	18.8	See 20dBc Data Sheet
Hori	5329.000	AV	33.1	32.3	4.1	31.5	38.0	53.9	15.9	
Hori	5850.000	AV	33.4	32.9	3.6	31.1	38.8	53.9	15.1	
Hori	11624.000	AV	39.1	39.4	-1.9	32.9	43.7	53.9	10.2	
Hori	17456.000	AV	37.9	45.2	-2.4	32.2	48.5	-	-	
Vert	64.514	QP	48.9	7.3	7.5	32.0	31.7	40.0	8.3	See 20dBc Data Sheet
Vert	76.831	QP	55.6	6.5	7.7	32.1	37.7	-	-	
Vert	110.421	QP	49.7	11.9	8.1	32.0	37.7	43.5	5.8	
Vert	135.313	QP	44.1	14.2	8.3	31.9	34.7	43.5	8.8	
Vert	147.312	QP	45.1	14.9	8.4	31.9	36.5	43.5	7.0	
Vert	250.491	QP	36.2	17.4	9.3	31.9	31.0	46.0	15.0	
Vert	318.600	QP	33.9	16.3	9.8	31.9	28.1	46.0	17.9	
Vert	368.312	QP	33.9	17.1	10.1	31.9	29.2	46.0	16.8	
Vert	3877.000	PK	45.6	30.2	3.6	31.6	47.8	73.9	26.1	See 20dBc Data Sheet
Vert	5329.000	PK	44.9	32.3	4.1	31.5	49.8	73.9	24.1	
Vert	5850.000	PK	48.5	32.9	3.6	31.1	53.9	73.9	20.0	
Vert	11624.000	PK	64.2	39.4	-1.9	32.9	68.8	73.9	5.1	
Vert	17448.000	PK	56.2	45.2	-0.4	32.2	68.8	-	-	
Vert	3877.000	AV	34.1	30.2	3.6	31.6	36.3	53.9	17.6	See 20dBc Data Sheet
Vert	5329.000	AV	33.9	32.3	4.1	31.5	38.8	53.9	15.1	
Vert	5850.000	AV	32.2	32.9	3.6	31.1	37.6	53.9	16.3	
Vert	11624.000	AV	42.5	39.4	-1.9	32.9	47.1	53.9	6.8	
Vert	17448.000	AV	36.6	45.2	-0.4	32.2	49.2	-	-	

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter-Distance factor(above 10GHz)) - Gain(Amplifier)

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

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

Distance factor: 10GHz-26.5GHz 20log(3.0m/1.0m)= 9.5dB
26.5GHz-40GHz 20log(3.0m/0.5m)=15.6dB

Radiated Spurious Emission

Test place Head Office EMC Lab. No.3 and No.4 Semi Anechoic Chamber
Report No. 31BE0147-HO-01
Date 09/22/2010 09/24/2010
Temperature/ Humidity 23 deg.C./ 55% 23 deg.C./ 66%
Engineer Tomotaka Sasagawa Tomotaka Sasagawa
(1-18GHz) (30-1000MHz,18-40GHz)
Mode Tx 5814MHz

20dBc Data Sheet

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant Factor [dB/m]	Loss [dB]	Gain [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori	5814.000	PK	94.3	32.8	3.6	31.1	99.6	-	-	Carrier
Hori	76.766	PK	42.1	6.5	7.7	32.1	24.2	79.6	55.4	
Hori	17456.000	PK	45.0	45.2	-0.4	32.2	57.6	79.6	22.0	
Vert	5814.000	PK	91.2	32.8	3.6	31.1	96.5	-	-	Carrier
Vert	76.831	PK	58.1	6.5	7.7	32.1	40.2	76.5	36.3	
Vert	17448.000	PK	45.4	45.2	-0.4	32.2	58.0	76.5	18.5	

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter-Distance factor(above 10GHz)) - Gain(Amplifier)

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

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

Distance factor: 10GHz-26.5GHz $20\log(3.0\text{m}/1.0\text{m})= 9.5\text{dB}$
26.5GHz-40GHz $20\log(3.0\text{m}/0.5\text{m})=15.6\text{dB}$

Radiated Spurious Emission

Test place Head Office EMC Lab. No.3 and No.4 Semi Anechoic Chamber
Report No. 31BE0147-HO-01
Date 09/22/2010 09/24/2010
Temperature/ Humidity 23 deg.C./ 55% 23 deg.C./ 66%
Engineer Tomotaka Sasagawa Tomotaka Sasagawa
(1-18GHz) (30-1000MHz,18-40GHz)
Mode Rx 5762MHz

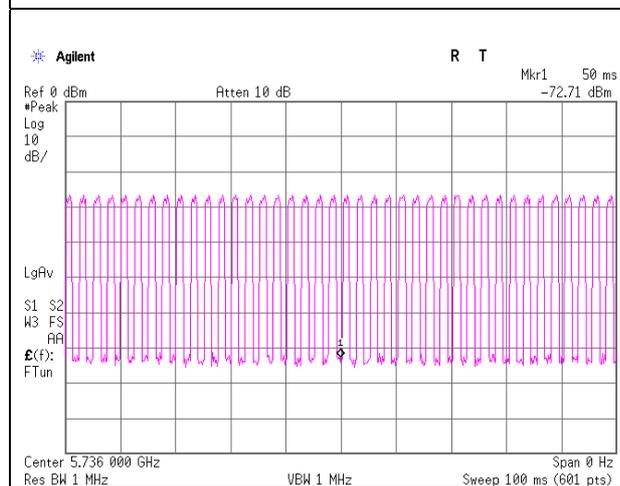
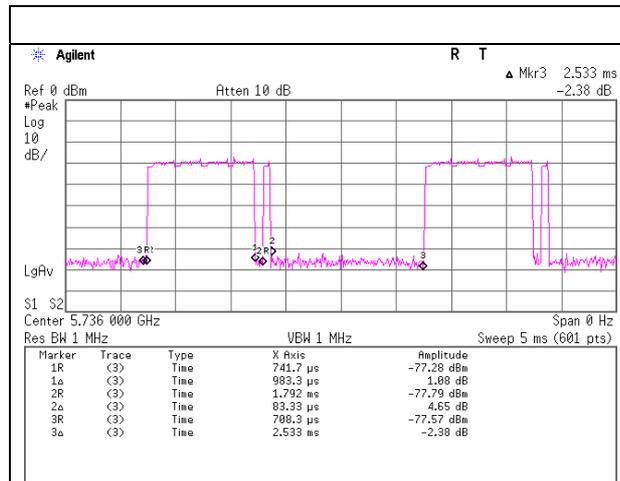
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori	64.521	QP	49.8	7.3	7.5	32.0	32.6	40.0	7.4	
Hori	76.741	QP	39.8	6.5	7.7	32.1	21.9	40.0	18.1	
Hori	110.583	QP	44.9	11.9	8.1	32.0	32.9	43.5	10.6	
Hori	135.413	QP	35.4	14.2	8.3	31.9	26.0	43.5	17.5	
Hori	147.851	QP	39.5	14.9	8.5	31.9	31.0	43.5	12.5	
Hori	250.210	QP	41.2	17.4	9.3	31.9	36.0	46.0	10.0	
Hori	375.241	QP	41.2	17.2	10.2	31.9	36.7	46.0	9.3	
Hori	846.400	QP	27.6	23.3	12.7	31.6	32.0	46.0	14.0	
Hori	5762.000	PK	41.2	32.7	4.2	31.6	46.5	73.9	27.4	
Hori	5762.000	PK	29.8	32.7	4.2	31.6	35.1	73.9	38.8	
Hori	17286.000	PK	45.2	43.8	-2.5	32.2	54.3	73.9	19.6	
Hori	17286.000	AV	32.8	43.8	-2.5	32.2	41.9	53.9	12.0	
Vert	64.851	QP	49.1	7.3	7.5	32.0	31.9	40.0	8.1	
Vert	76.823	QP	54.5	6.5	7.7	32.1	36.6	40.0	3.4	
Vert	110.624	QP	49.7	11.9	8.1	32.0	37.7	43.5	5.8	
Vert	135.413	QP	44.5	14.2	8.3	31.9	35.1	43.5	8.4	
Vert	147.321	QP	46.1	14.9	8.4	31.9	37.5	43.5	6.0	
Vert	250.843	QP	36.5	17.4	9.3	31.9	31.3	46.0	14.7	
Vert	368.931	QP	34.6	17.1	10.1	31.9	29.9	46.0	16.1	
Vert	846.400	QP	28.0	23.3	12.7	31.6	32.4	46.0	13.6	
Vert	5762.000	PK	41.3	32.7	4.2	31.6	46.6	73.9	27.3	
Vert	17286.000	PK	44.9	43.8	-2.5	32.2	54.0	73.9	19.9	
Vert	5762.000	AV	30.2	32.7	4.2	31.6	35.5	53.9	18.4	
Vert	17286.000	AV	32.1	43.8	-2.5	32.2	41.2	53.9	12.7	

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter-Distance factor(above 10GHz)) - Gain(Amplifier)

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

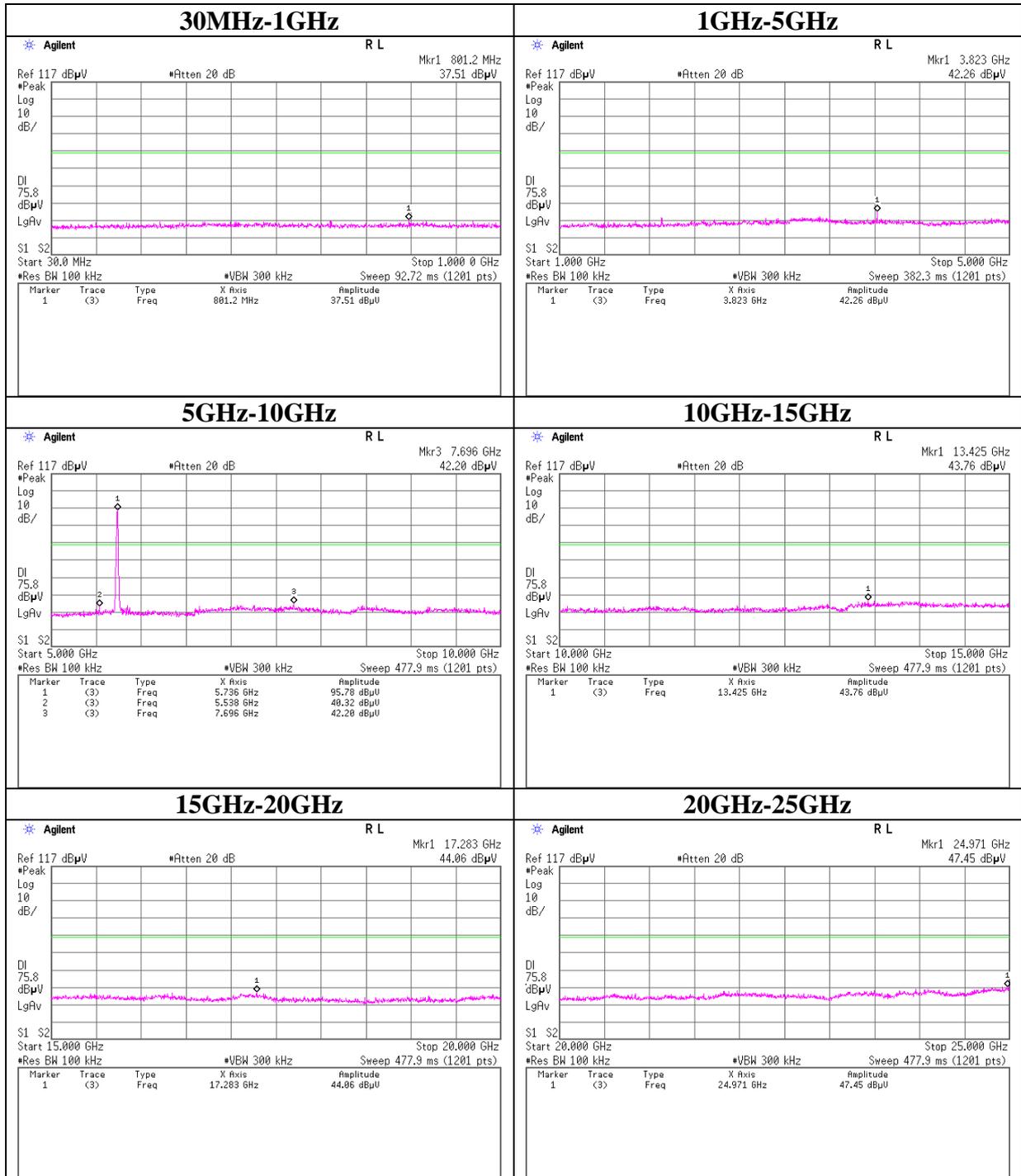
Distance factor: 10GHz-26.5GHz $20\log(3.0m/1.0m) = 9.5dB$

The tested burst timing



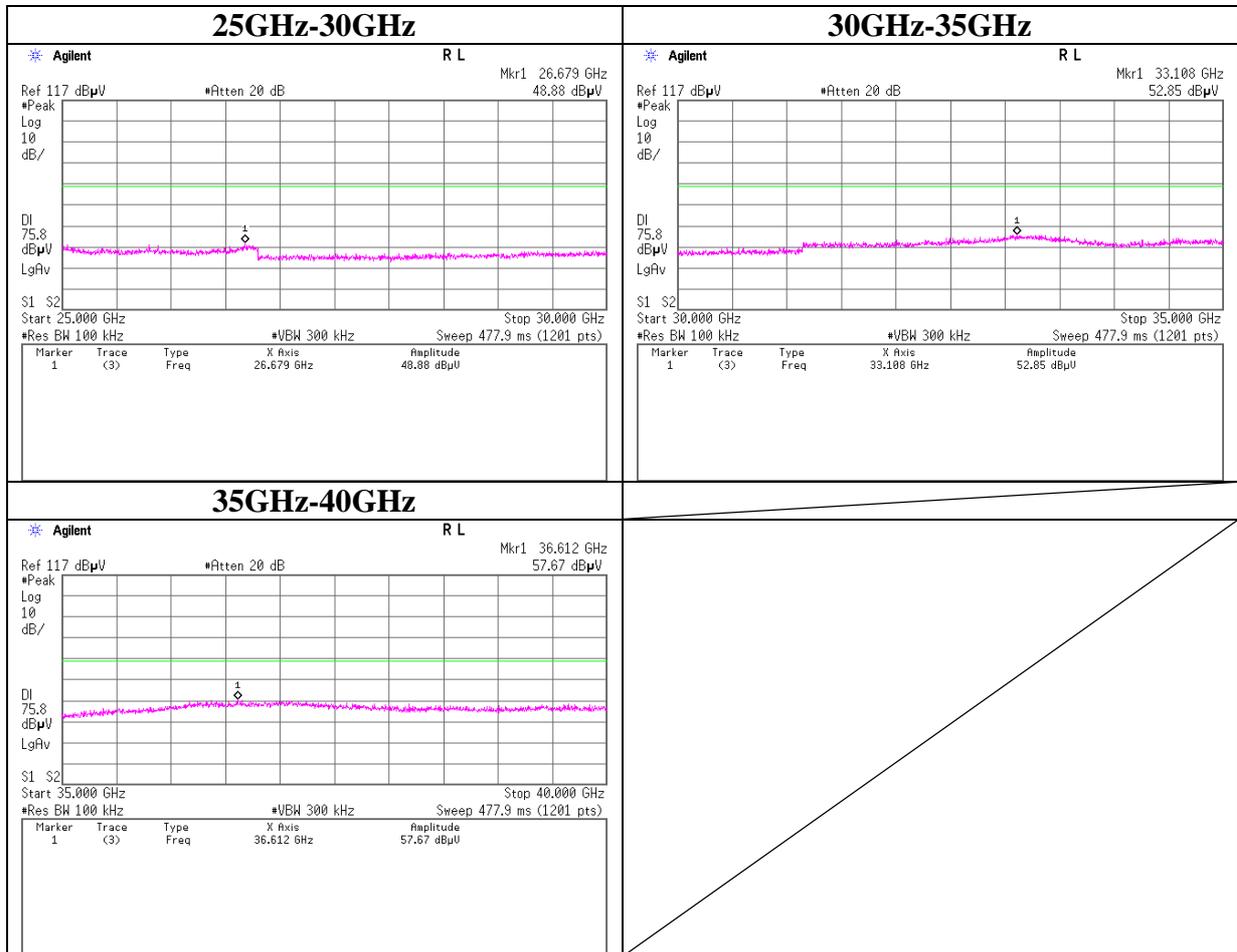
Conducted Spurious Emission

Tx 5736MHz



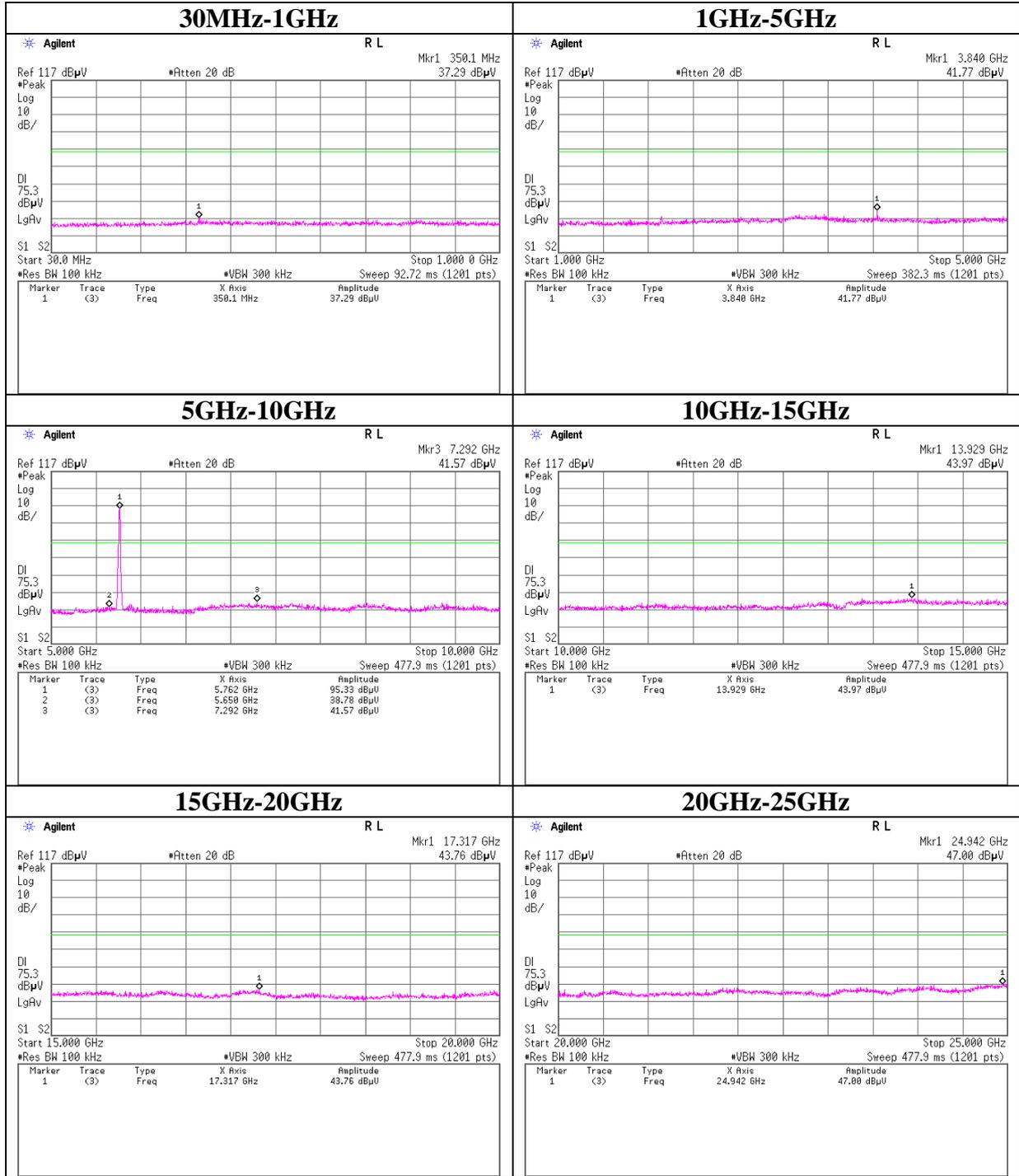
Conducted Spurious Emission

Tx 5736MHz



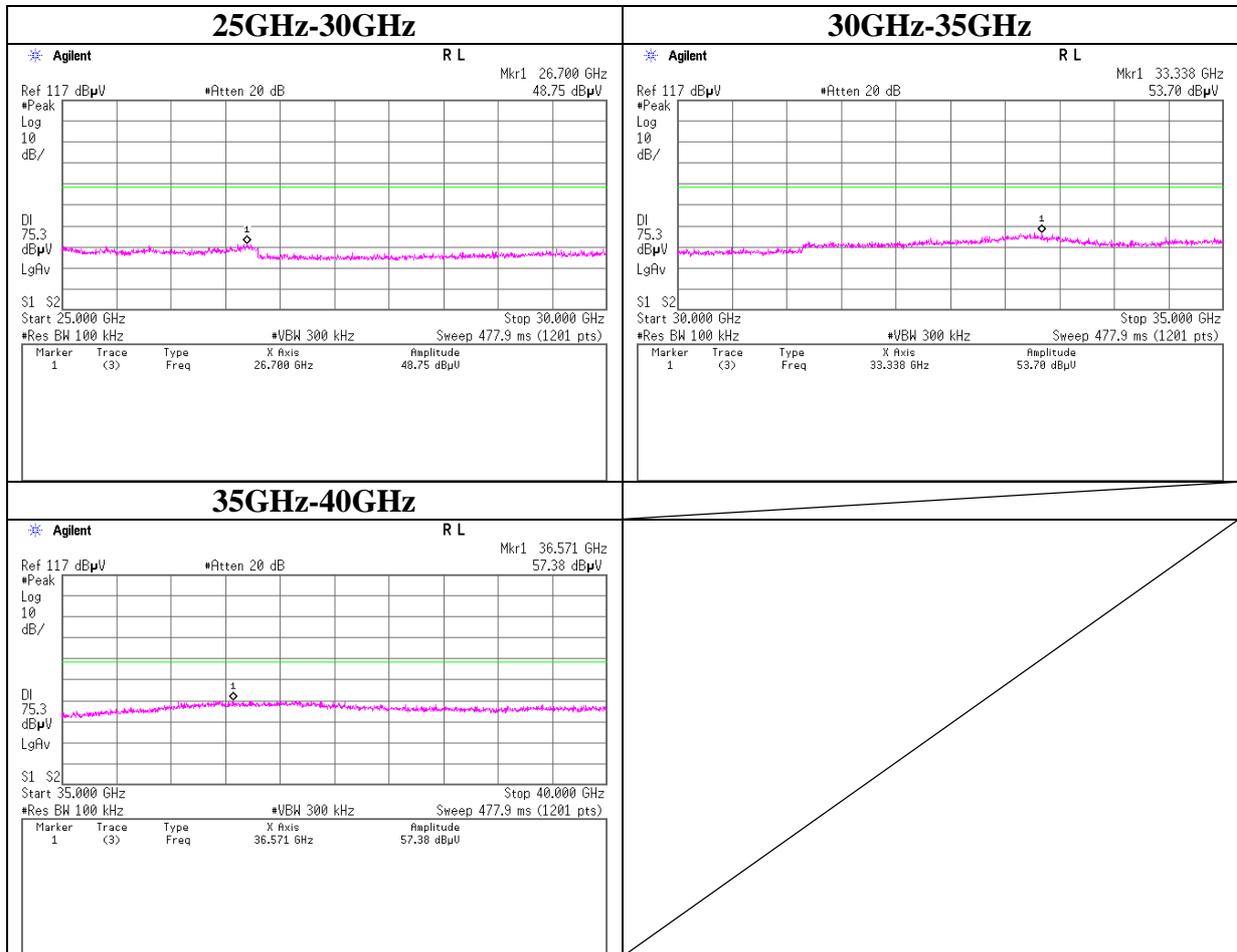
Conducted Spurious Emission

Tx 5762MHz



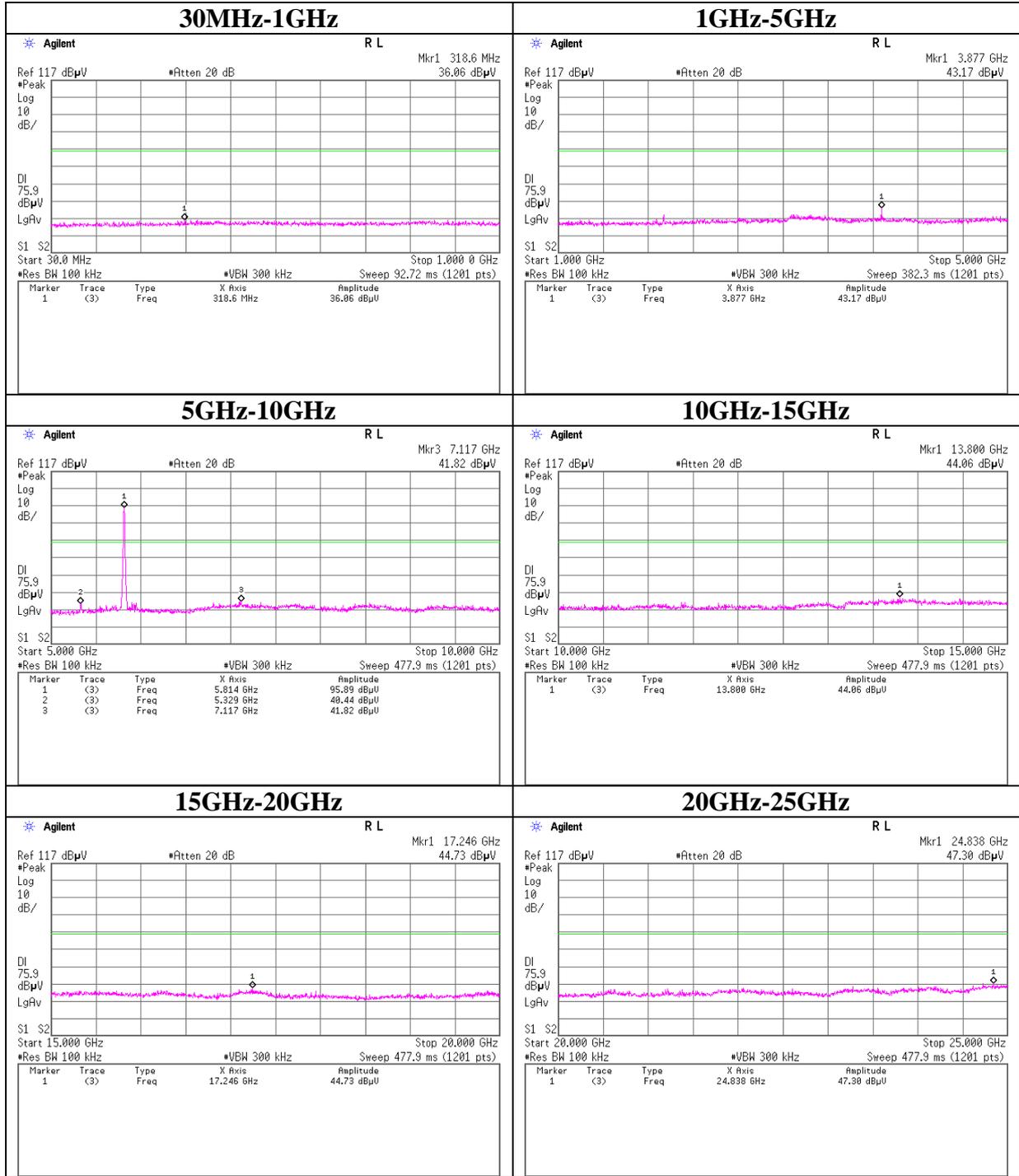
Conducted Spurious Emission

Tx 5762MHz



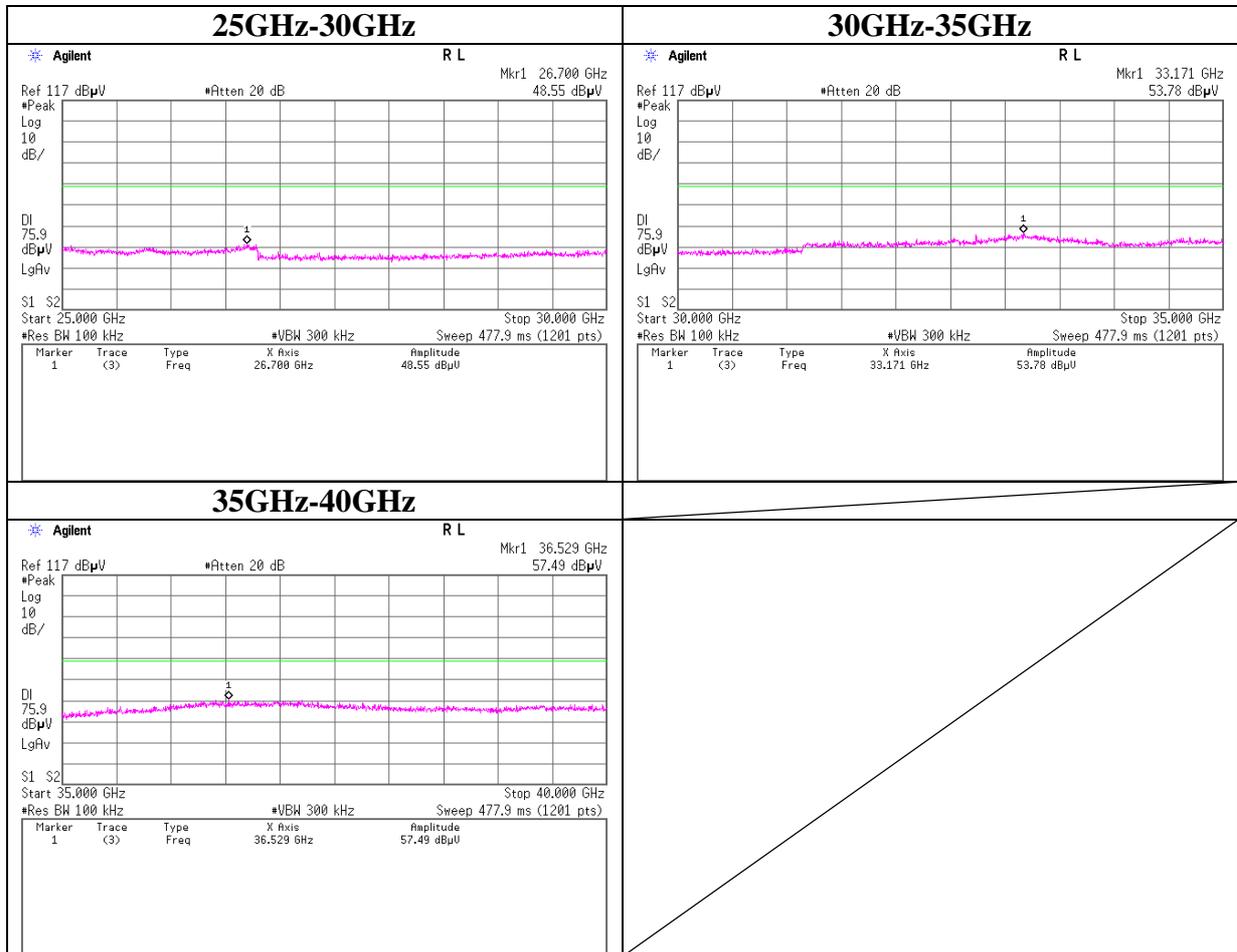
Conducted Spurious Emission

Tx 5814MHz



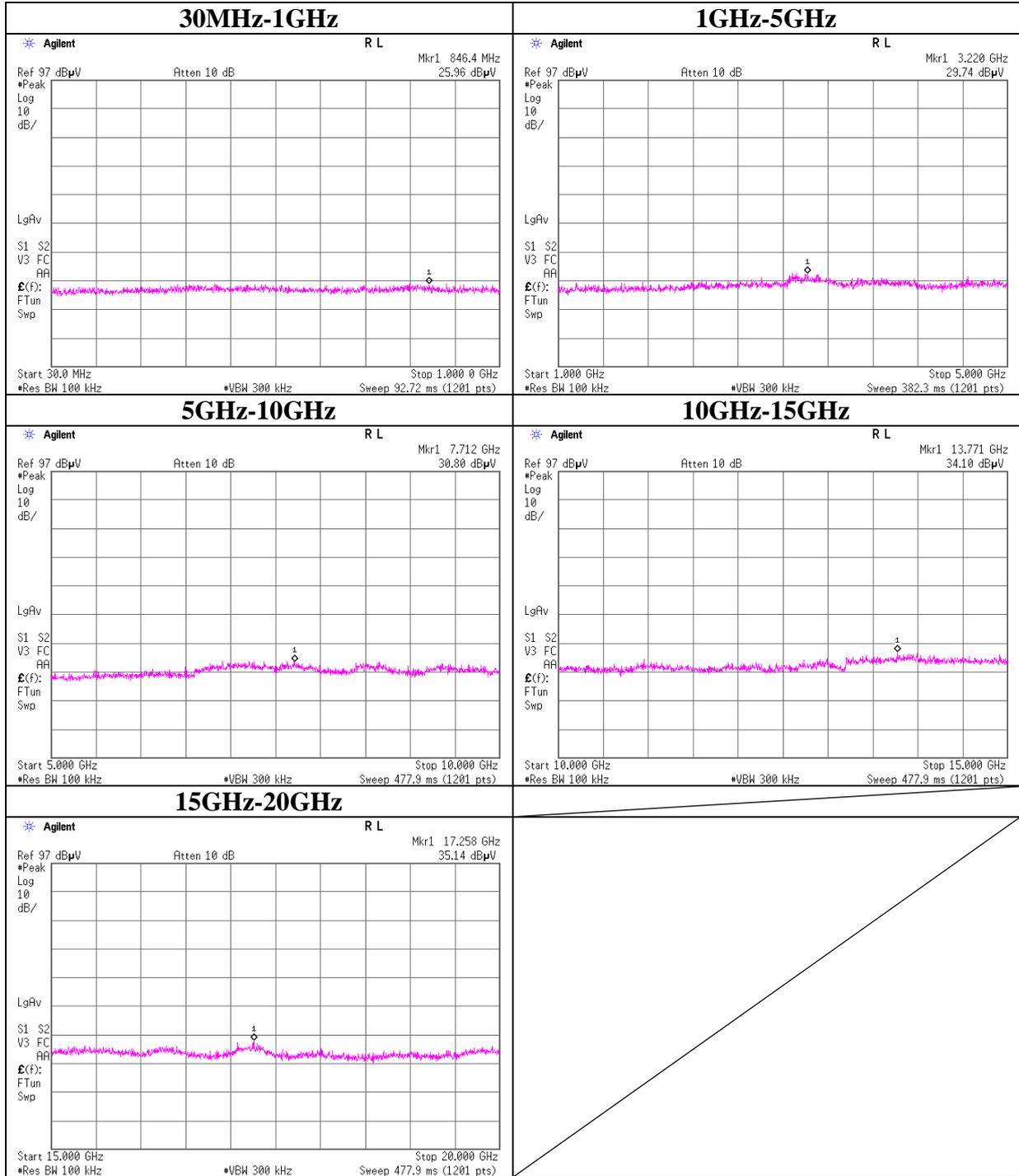
Conducted Spurious Emission

Tx 5814MHz



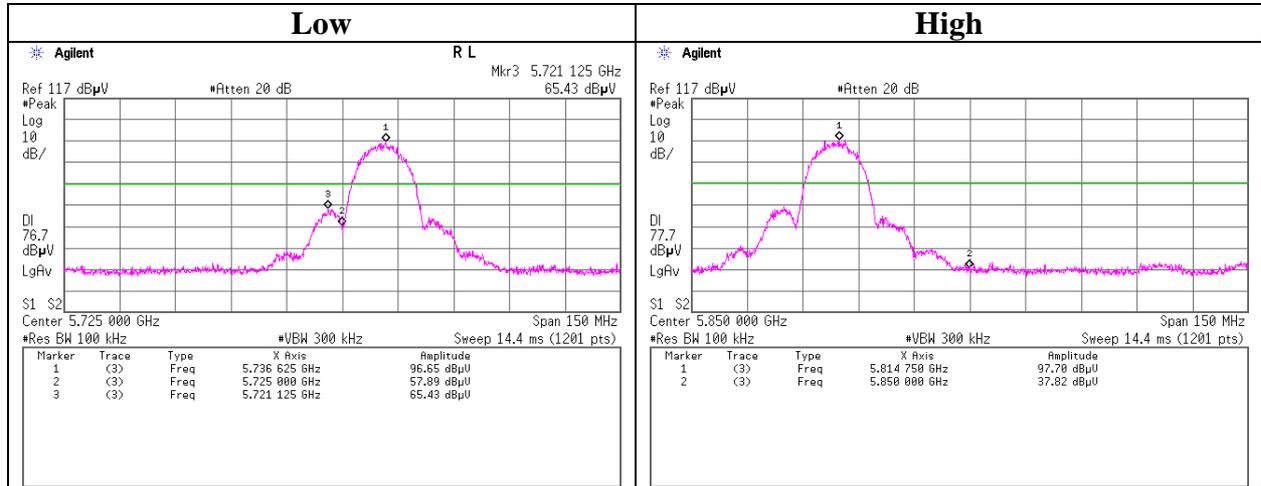
Conducted Spurious Emission

Rx 5762MHz



Conducted Emission Band Edge compliance

Tx



Power Density

Test place : Head Office EMC Lab. No.11 Measurement Room
Report No. : 31BE0147-HO-01
Date : 09/20/2010
Temperature/ Humidity : 22 deg.C./ 55%
Engineer : Hiroshi Kukita
Mode : Tx

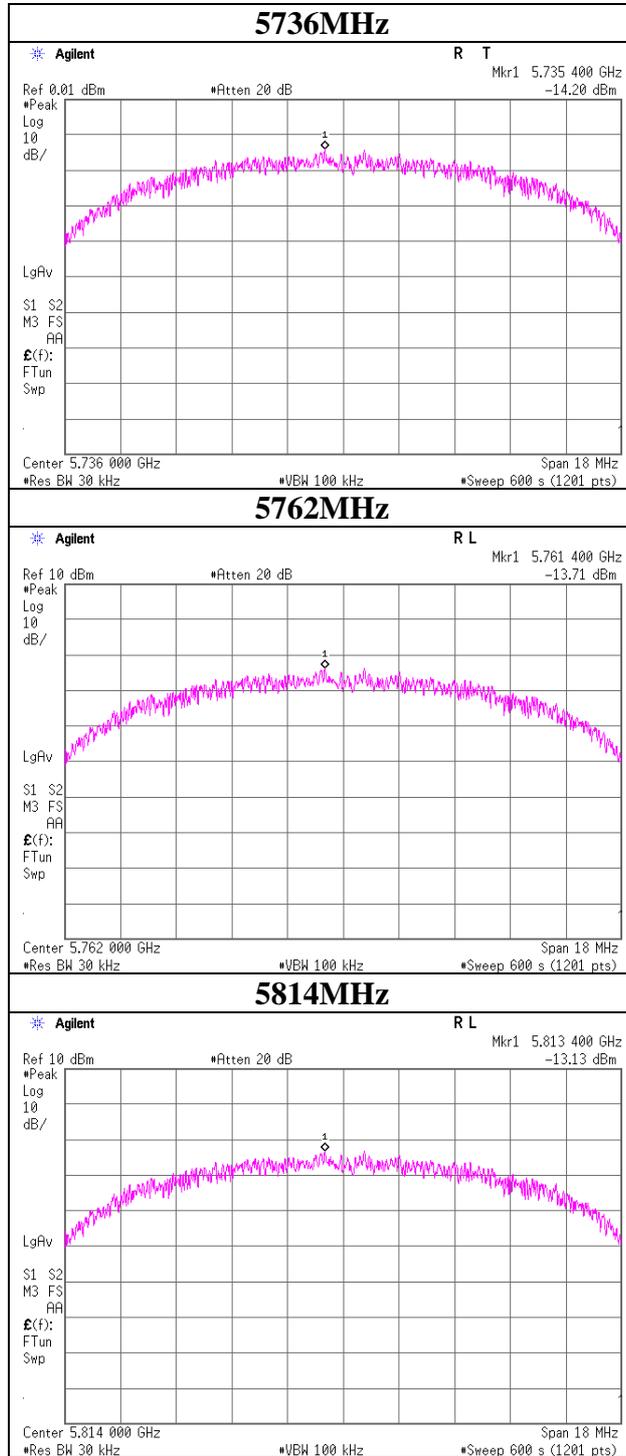
Antenna B

Freq. [MHz]	Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result		Limit [dBm]	Margin [dB]
				[dBm]	[mW]		
5736.00	-14.20	2.87	10.04	-1.29	0.74	8.00	9.29
5762.00	-13.71	2.87	10.04	-0.80	0.83	8.00	8.80
5814.00	-13.13	2.87	10.05	-0.21	0.95	8.00	8.21

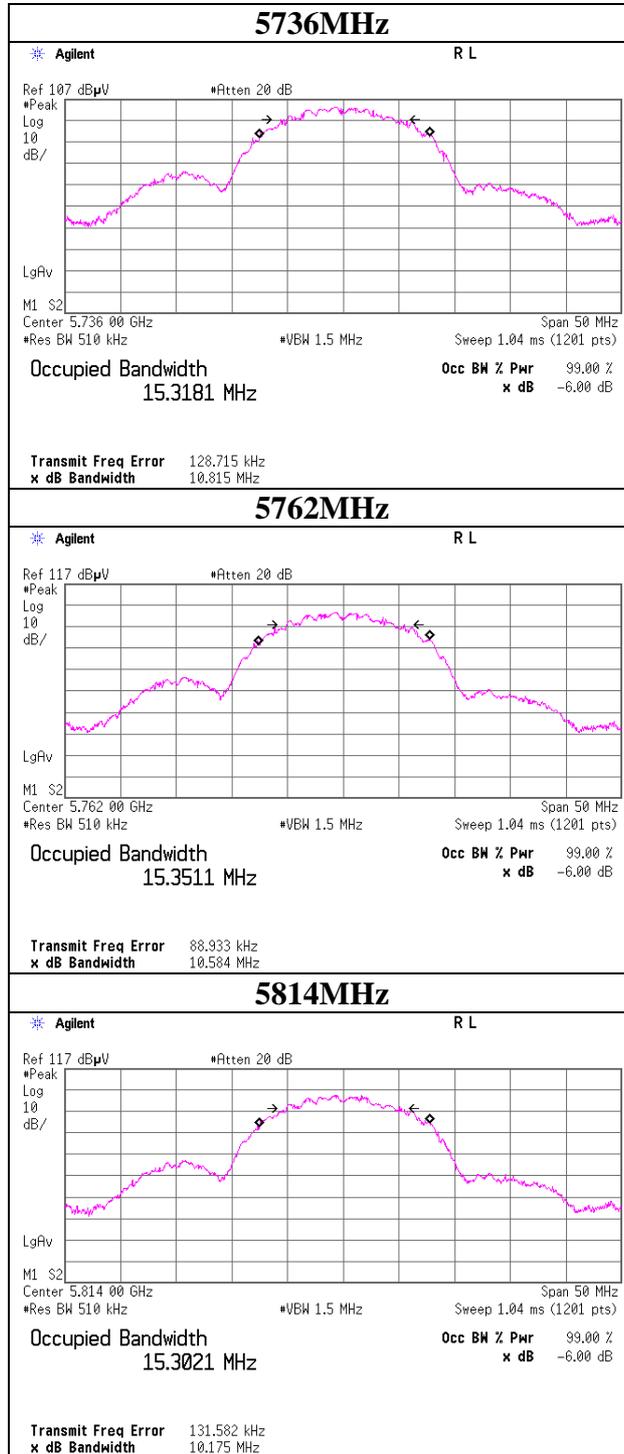
Sample Calculation:

Result = Reading + Cable Loss (including the cable(s) customer supplied) + Attenuator

Power Density



99% Occupied Bandwidth



APPENDIX 3: Test instruments

EMI test equipment

Control No.	Instrument	Manufacturer	Model No	Serial No	Test Item	Calibration Date * Interval(month)
MSA-06	Spectrum Analyzer	Agilent	E4407B	MY45107638	AT	2010/04/07 * 12
MPM-11	Dual Power Meter	Agilent	E4419B	MY45102060	AT	2010/07/30 * 12
MPSE-15	Power sensor	Agilent	E9301A	MY41498311	AT	2010/07/30 * 12
MAT-22	Attenuator(10dB) 1-18GHz	Orient Microwave	BX10-0476-00	-	AT	2010/03/01 * 12
MSA-03	Spectrum Analyzer	Agilent	E4448A	MY44020357	AT	2009/11/20 * 12
MPM-08	Power Meter	Anritsu	ML2495A	6K00003338	AT	2010/09/10 * 12
MPSE-12	Power sensor	Anritsu	MA2411B	011598	AT	2010/09/10 * 12
MBM-12	Barometer	Sunoh	SBR121	873	AT	2007/12/27 * 36
MOS-19	Thermo-Hygrometer	Custom	CTH-201	0001	AT	2009/12/22 * 12
MAT-22	Attenuator(10dB) 1-18GHz	Orient Microwave	BX10-0476-00	-	AT	2010/03/01 * 12
MPM-09	Power Meter	Anritsu	ML2495A	6K00003348	AT	2010/09/10 * 12
MPSE-12	Power sensor	Anritsu	MA2411B	011598	AT	2010/09/10 * 12
MSA-03	Spectrum Analyzer	Agilent	E4448A	MY44020357	AT	2009/11/20 * 12
MTA-09	Terminator	HP	HP 909D	03745	AT	2010/02/02 * 12
MAEC-03	Semi Anechoic Chamber(NSA)	TDK	Semi Anechoic Chamber 3m	DA-10005	RE	2010/02/01 * 12
MOS-13	Thermo-Hygrometer	Custom	CTH-180	-	RE	2010/02/09 * 12
MJM-06	Measure	PROMART	SEN1955	-	RE	-
COTS-MEMI	EMI measurement program	TSJ	TEPTO-DV	-	RE	-
MSA-09	Spectrum Analyzer	Advantest	R3273	95090115	RE	2009/12/11 * 12
MHA-20	Horn Antenna 1-18GHz	Schwarzbeck	BBHA9120D	258	RE	2010/05/07 * 12
MCC-56	Microwave Cable	Suhner	SUCOFLEX104	174410(1m) / 284655(5m)	RE	2010/01/25 * 12
MPA-11	MicroWave System Amplifier	Agilent	83017A	MY39500779	RE	2010/03/03 * 12
MAEC-04	Semi Anechoic Chamber(NSA)	TDK	Semi Anechoic Chamber 3m	DA-10005	RE/CE	2010/02/02 * 12
MOS-15	Thermo-Hygrometer	Custom	CTH-180	-	RE/CE	2010/02/09 * 12
MJM-07	Measure	PROMART	SEN1955	-	RE/CE	-
MSA-05	Spectrum Analyzer	Advantest	R3273	160400285	RE/CE	2009/12/15 * 12
MTR-07	Test Receiver	Rohde & Schwarz	ESCI	100635	RE/CE	2009/10/23 * 12
MBA-05	Biconical Antenna	Schwarzbeck	BBA9106	1302	RE	2010/03/22 * 12
MLA-08	Logperiodic Antenna	Schwarzbeck	UKLP9140-A	N/A	RE	2010/01/23 * 12
MCC-50	Coaxial cable	UL Japan	-	-	RE	2010/03/18 * 12
MAT-51	Attenuator(6dB)	Weinschel	2	AS3557	RE	2010/01/20 * 12
MPA-14	Pre Amplifier	SONOMA INSTRUMENT	310	260833	RE	2010/03/05 * 12

The expiration date of the calibration is the end of the expired month.

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

As for some calibrations performed after the tested dates, those test equipment have been controlled by means of an unbroken chains of calibrations.

Test Item: CE: Conducted Emission
RE: Radiated Emission
AT: Antenna Terminal Conducted test