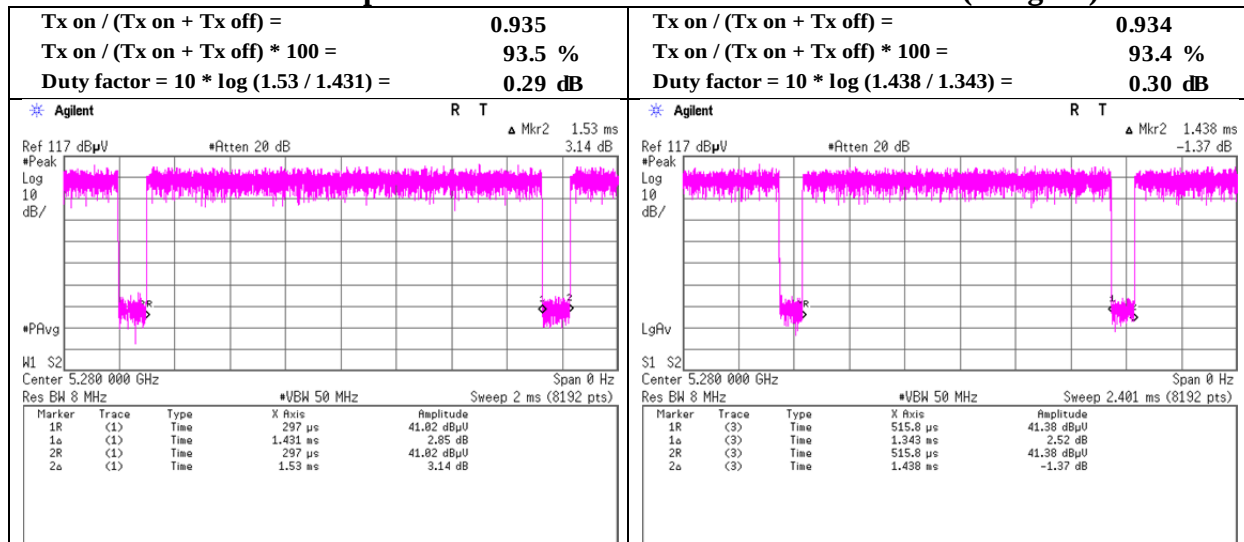


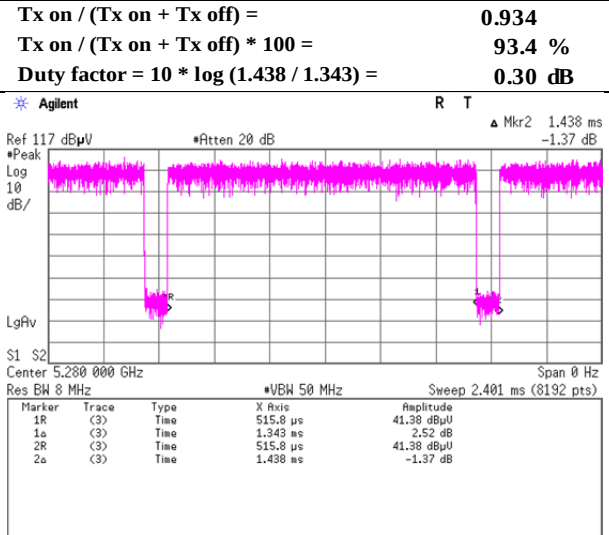
Burst rate confirmation

Test place : Ise EMC Lab. No.7 Shielded Room
Report No. : 11500824H
Date : November 25, 2016
Temperature / Humidity : 24 deg. C / 45 % RH
Engineer : Ryota Yamanaka
Mode : Tx

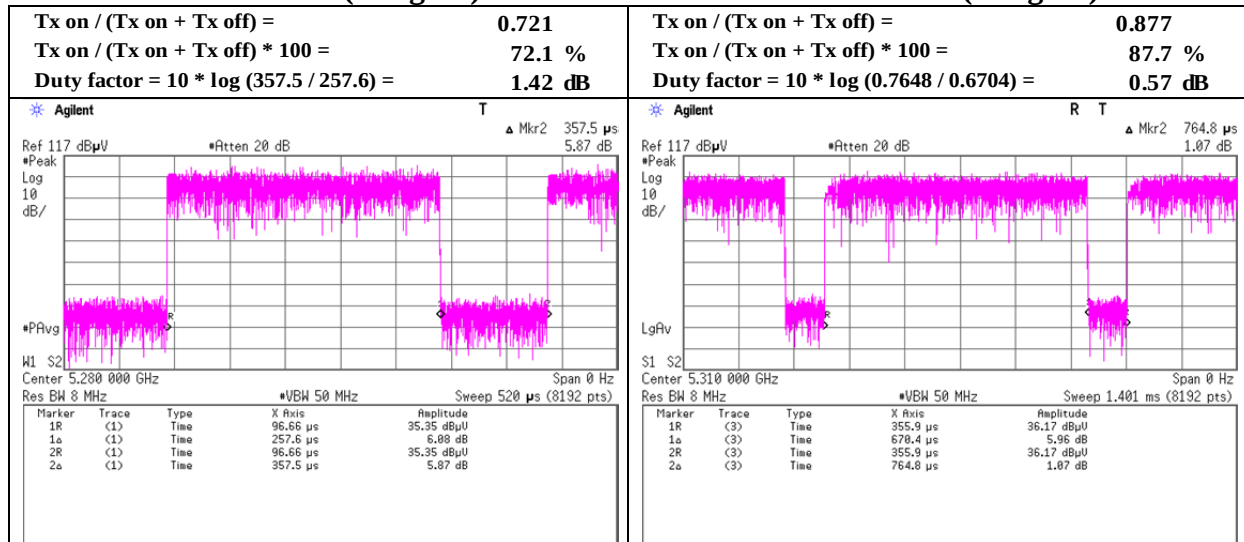
11a 6Mbps



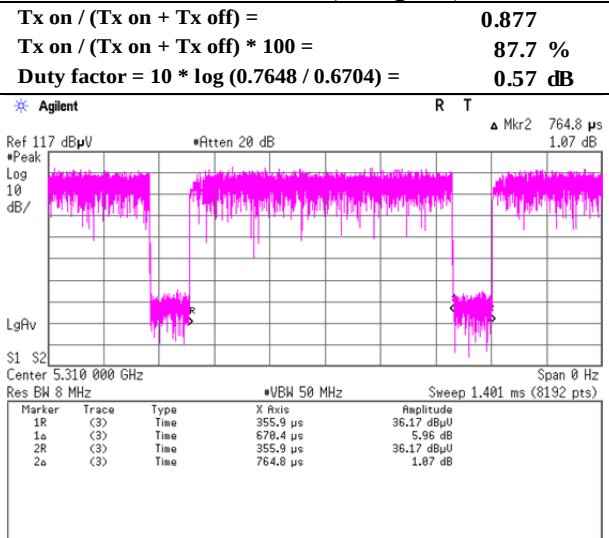
11n-20 MCS0(Long GI)



11n-20 MCS4(Long GI)



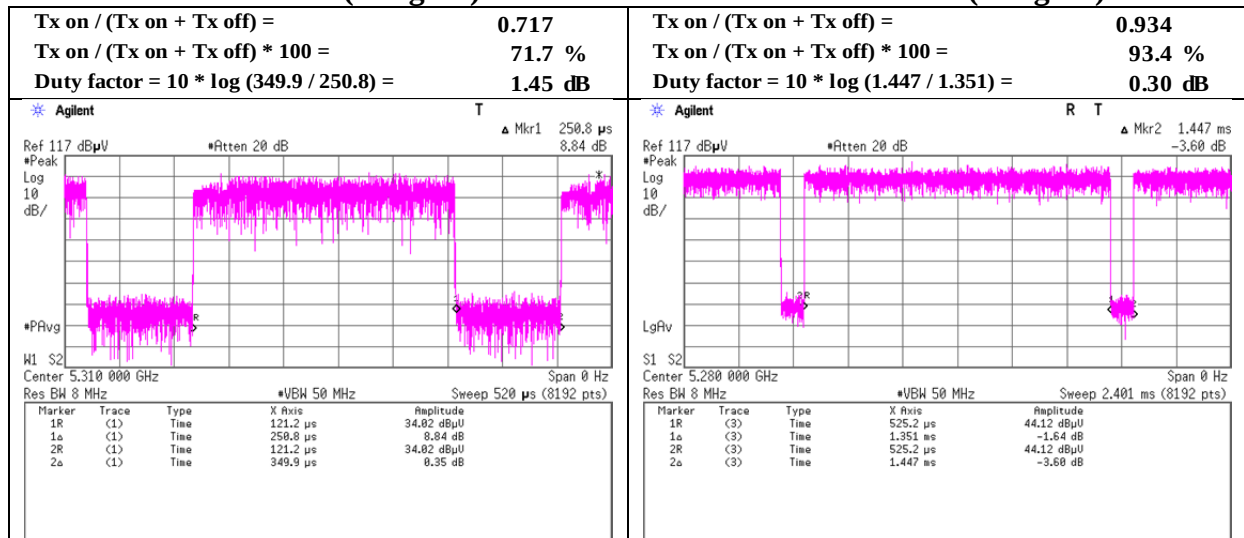
11n-40 MCS0(Long GI)



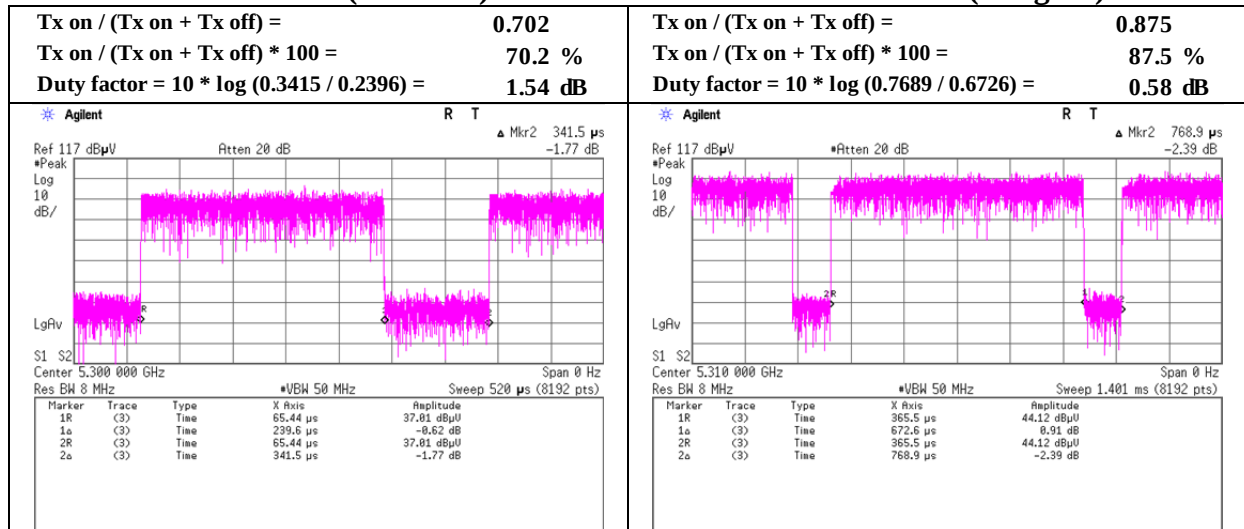
Burst rate confirmation

Test place : Ise EMC Lab. No.7 Shielded Room
Report No. : 11500824H
Date : November 25, 2016
Temperature / Humidity : 24 deg. C / 45 % RH
Engineer : Ryota Yamanaka
Mode : Tx

11n-40 MCS2(Long GI)



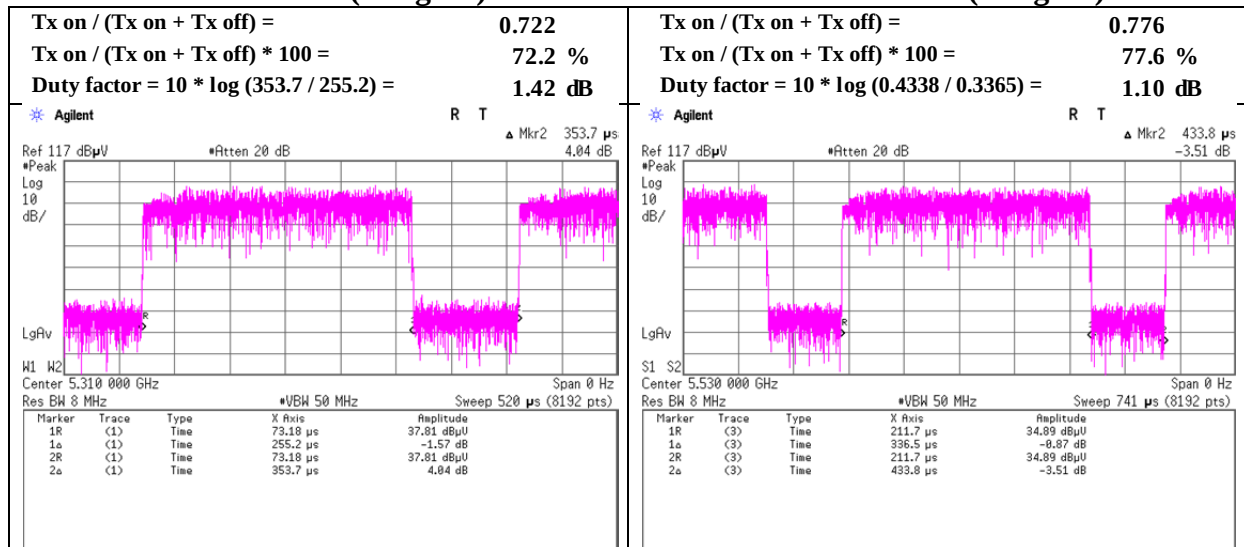
11ac-20 MCS4(Short GI)



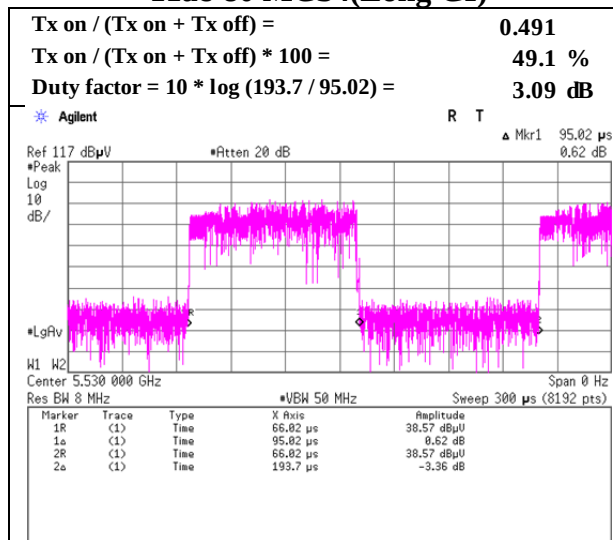
Burst rate confirmation

Test place : Ise EMC Lab. No.7 Shielded Room
Report No. : 11500824H
Date : November 25, 2016
Temperature / Humidity : 24 deg. C / 45 % RH
Engineer : Ryota Yamanaka
Mode : Tx

11ac-40 MCS2(Long GI)



11ac-80 MCS4(Long GI)



Maximum Power Spectral Density

Test place : Ise EMC Lab. No.3 Measurement Room
Report No. : 11500824H
Date : November 11, 2016
Temperature / Humidity : 24deg. C / 39 % RH
Engineer : Ryota Yamanaka
Mode : Tx 11a
November 25, 2016
24 deg. C / 45 % RH
Ryota Yamanaka

11a

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	PSD Reading [dBm /MHz]	Cable Loss [dB]	Atten. Loss [dB]	Duty Factor [dB]	Antenna Gain [dBi]	RBW Correction Factor [dB]	PSD (Conducted)			PSD (e.i.r.p.)		
							Result [dBm /MHz]	Limit [dBm /MHz]	Margin [dB]	Result [dBm /MHz]	Limit [dBm /MHz]	Margin [dB]
5280	-11.51	1.60	10.13	0.29	0.3	0.00	0.51	11.00	10.49	0.81	17.00	16.19
5300	-11.69	1.61	10.13	0.29	0.3	0.00	0.34	11.00	10.66	0.64	17.00	16.36
5320	-11.75	1.61	10.13	0.29	0.3	0.00	0.28	11.00	10.72	0.58	17.00	16.42
5500	-12.22	1.64	10.14	0.29	0.3	0.00	-0.15	11.00	11.15	0.15	17.00	16.85
5580	-11.75	1.65	10.13	0.29	0.3	0.00	0.32	11.00	10.68	0.62	17.00	16.38
5700	-11.95	1.66	10.12	0.29	0.3	0.00	0.12	11.00	10.88	0.42	17.00	16.58
5720	-11.83	1.67	10.12	0.29	0.3	0.00	0.25	11.00	10.75	0.55	17.00	16.45
5745	-14.92	1.67	10.12	0.29	0.3	0.27	-2.57	30.00	32.57	-2.27	36.00	38.27
5785	-15.38	1.67	10.12	0.29	0.3	0.27	-3.03	30.00	33.03	-2.73	36.00	38.73
5825	-15.64	1.68	10.11	0.29	0.3	0.27	-3.30	30.00	33.30	-3.00	36.00	39.00

Sample Calculation:

PSD: Power Spectral Density

The PSD within 5725 MHz to 5825 MHz are based on any 500 kHz band.

RBW Correction Factor = $10 \cdot \log(\text{Specified bandwidth} / \text{Measured bandwidth})$

PSD Result (Conducted) = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss + Duty Factor + RBW Correction Factor

PSD Result (e.i.r.p.) = Conducted PSD Result + Antenna Gain

*Although the EUT has AP mode, client device limit which is more severe was applied to the test.

Maximum Power Spectral Density

Test place	Ise EMC Lab. No.3 Measurement Room	
Report No.	11500824H	
Date	November 11, 2016	November 25, 2016
Temperature / Humidity	24deg. C / 39 % RH	24 deg. C / 45 % RH
Engineer	Ryota Yamanaka	Ryota Yamanaka
Mode	Tx 11n-20	

11n20

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	PSD Reading [dBm /MHz]	Cable Loss [dB]	Atten. Loss [dB]	Duty Factor [dB]	Antenna Gain [dBi]	RBW Correction Factor [dB]	PSD (Conducted)			PSD (e.i.r.p.)		
							Result [dBm /MHz]	Limit [dBm /MHz]	Margin [dB]	Result [dBm /MHz]	Limit [dBm /MHz]	Margin [dB]
5280	-13.10	1.60	10.13	1.42	0.3	0.00	0.05	11.00	10.95	0.36	17.00	16.65
5300	-13.31	1.61	10.13	1.42	0.3	0.00	-0.15	11.00	11.15	0.15	17.00	16.85
5320	-13.07	1.61	10.13	1.42	0.3	0.00	0.09	11.00	10.91	0.39	17.00	16.61
5500	-13.64	1.64	10.14	1.42	0.3	0.00	-0.44	11.00	11.44	-0.14	17.00	17.14
5580	-13.62	1.65	10.13	1.42	0.3	0.00	-0.42	11.00	11.42	-0.12	17.00	17.12
5700	-13.48	1.66	10.12	1.42	0.3	0.00	-0.28	11.00	11.28	0.02	17.00	16.98
5720	-13.76	1.67	10.12	1.42	0.3	0.00	-0.55	11.00	11.55	-0.25	17.00	17.25
5745	-16.68	1.67	10.12	1.42	0.3	0.27	-3.20	30.00	33.20	-2.90	36.00	38.90
5785	-17.07	1.67	10.12	1.42	0.3	0.27	-3.59	30.00	33.59	-3.29	36.00	39.29
5825	-17.25	1.68	10.11	1.42	0.3	0.27	-3.77	30.00	33.77	-3.47	36.00	39.47

Sample Calculation:

PSD: Power Spectral Density

The PSD within 5725 MHz to 5825 MHz are based on any 500 kHz band.

RBW Correction Factor = $10 \cdot \log$ (Specified bandwidth / Measured bandwidth)

PSD Result (Conducted) = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss + Duty Factor + RBW Correction Factor

PSD Result (e.i.r.p.) = Conducted PSD Result + Antenna Gain

*Although the EUT has AP mode, client device limit which is more severe was applied to the test.

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Facsimile : +81 596 24 8124

Maximum Power Spectral Density

Test place	Ise EMC Lab. No.3 Measurement Room	
Report No.	11500824H	
Date	November 11, 2016	November 25, 2016
Temperature / Humidity	24deg. C / 39 % RH	24 deg. C / 45 % RH
Engineer	Ryota Yamanaka	Ryota Yamanaka
Mode	Tx 11ac-20	

11ac20

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	PSD Reading [dBm /MHz]	Cable Loss [dB]	Atten. Loss [dB]	Duty Factor [dB]	Antenna Gain [dBi]	RBW Correction Factor [dB]	PSD (Conducted)			PSD (e.i.r.p.)		
							Result [dBm /MHz]	Limit [dBm /MHz]	Margin [dB]	Result [dBm /MHz]	Limit [dBm /MHz]	Margin [dB]
5280	-13.29	1.60	10.13	1.54	0.3	0.00	-0.02	11.00	11.02	0.28	17.00	16.72
5300	-13.27	1.61	10.13	1.54	0.3	0.00	0.01	11.00	10.99	0.31	17.00	16.69
5320	-13.12	1.61	10.13	1.54	0.3	0.00	0.16	11.00	10.84	0.46	17.00	16.54
5500	-13.61	1.64	10.14	1.54	0.3	0.00	-0.29	11.00	11.29	0.01	17.00	16.99
5580	-13.61	1.65	10.13	1.54	0.3	0.00	-0.29	11.00	11.29	0.01	17.00	16.99
5700	-13.77	1.66	10.12	1.54	0.3	0.00	-0.45	11.00	11.45	-0.15	17.00	17.15
5720	-13.55	1.67	10.12	1.54	0.3	0.00	-0.22	11.00	11.22	0.08	17.00	16.92
5745	-16.67	1.67	10.12	1.54	0.3	0.27	-3.07	30.00	33.07	-2.77	36.00	38.77
5785	-17.10	1.67	10.12	1.54	0.3	0.27	-3.50	30.00	33.50	-3.20	36.00	39.20
5825	-17.06	1.68	10.11	1.54	0.3	0.27	-3.46	30.00	33.46	-3.16	36.00	39.16

Sample Calculation:

PSD: Power Spectral Density

The PSD within 5725 MHz to 5825 MHz are based on any 500 kHz band.

RBW Correction Factor = $10 \cdot \log$ (Specified bandwidth / Measured bandwidth)

PSD Result (Conducted) = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss + Duty Factor + RBW Correction Factor

PSD Result (e.i.r.p.) = Conducted PSD Result + Antenna Gain

*Although the EUT has AP mode, client device limit which is more severe was applied to the test.

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Facsimile : +81 596 24 8124

Maximum Power Spectral Density

Test place	Ise EMC Lab. No.3 Measurement Room
Report No.	11500824H
Date	November 11, 2016 November 25, 2016
Temperature / Humidity	24deg. C / 39 % RH 24 deg. C / 45 % RH
Engineer	Ryota Yamanaka Ryota Yamanaka
Mode	Tx 11n-40

11n40

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	PSD Reading [dBm /MHz]	Cable Loss [dB]	Atten. Loss [dB]	Duty Factor [dB]	Antenna Gain [dBi]	RBW Correction Factor [dB]	PSD (Conducted)			PSD (e.i.r.p.)		
							Result [dBm /MHz]	Limit [dBm /MHz]	Margin [dB]	Result [dBm /MHz]	Limit [dBm /MHz]	Margin [dB]
5310	-16.61	1.60	10.13	1.45	0.3	0.00	-3.43	11.00	14.43	-3.13	17.00	20.13
5510	-16.91	1.65	10.14	1.45	0.3	0.00	-3.67	11.00	14.67	-3.37	17.00	20.37
5550	-16.94	1.65	10.13	1.45	0.3	0.00	-3.71	11.00	14.71	-3.41	17.00	20.41
5670	-16.82	1.66	10.13	1.45	0.3	0.00	-3.58	11.00	14.58	-3.28	17.00	20.28
5710	-17.20	1.66	10.12	1.45	0.3	0.00	-3.97	11.00	14.97	-3.67	17.00	20.67
5755	-19.83	1.67	10.12	1.45	0.3	0.27	-6.32	30.00	36.32	-6.02	36.00	42.02
5795	-20.51	1.67	10.12	1.45	0.3	0.27	-7.00	30.00	37.00	-6.70	36.00	42.70

Sample Calculation:

PSD: Power Spectral Density

The PSD within 5725 MHz to 5825 MHz are based on any 500 kHz band.

RBW Correction Factor = $10 * \log (\text{Specified bandwidth} / \text{Measured bandwidth})$

PSD Result (Conducted) = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss + Duty Factor + RBW Correction Factor

PSD Result (e.i.r.p.) = Conducted PSD Result + Antenna Gain

*Although the EUT has AP mode, client device limit which is more severe was applied to the test.

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Telephone : +81 596 24 8999

Facsimile : +81 596 24 8124

Maximum Power Spectral Density

Test place	Ise EMC Lab. No.3 Measurement Room
Report No.	11500824H
Date	November 11, 2016
Temperature / Humidity	24deg. C / 39 % RH
Engineer	Ryota Yamanaka
Mode	Tx 11ac-40

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	PSD Reading [dBm /MHz]	Cable Loss [dB]	Atten. Loss [dB]	Duty Factor [dB]	Antenna Gain [dBi]	RBW Correction Factor [dB]	PSD (Conducted)			PSD (e.i.r.p.)		
							Result [dBm /MHz]	Limit [dBm /MHz]	Margin [dB]	Result [dBm /MHz]	Limit [dBm /MHz]	Margin [dB]
5310	-16.58	1.60	10.13	1.42	0.3	0.00	-3.43	11.00	14.43	-3.13	17.00	20.13
5510	-17.13	1.65	10.14	1.42	0.3	0.00	-3.92	11.00	14.92	-3.62	17.00	20.62
5550	-16.77	1.65	10.13	1.42	0.3	0.00	-3.57	11.00	14.57	-3.27	17.00	20.27
5670	-17.00	1.66	10.13	1.42	0.3	0.00	-3.79	11.00	14.79	-3.49	17.00	20.49
5710	-16.91	1.66	10.12	1.42	0.3	0.00	-3.71	11.00	14.71	-3.41	17.00	20.41
5755	-20.17	1.67	10.12	1.42	0.3	0.27	-6.69	30.00	36.69	-6.39	36.00	42.39
5795	-20.18	1.67	10.12	1.42	0.3	0.27	-6.70	30.00	36.70	-6.40	36.00	42.40

Sample Calculation:

PSD: Power Spectral Density

The PSD within 5725 MHz to 5825 MHz are based on any 500 kHz band.

RBW Correction Factor = $10 * \log (\text{Specified bandwidth} / \text{Measured bandwidth})$

PSD Result (Conducted) = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss + Duty Factor + RBW Correction Factor

PSD Result (e.i.r.p.) = Conducted PSD Result + Antenna Gain

*Although the EUT has AP mode, client device limit which is more severe was applied to the test.

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Telephone : +81 596 24 8999

Facsimile : +81 596 24 8124

Maximum Power Spectral Density

Test place	Ise EMC Lab. No.3 Measurement Room	
Report No.	11500824H	
Date	November 11, 2016	November 25, 2016
Temperature / Humidity	24deg. C / 39 % RH	24 deg. C / 45 % RH
Engineer	Ryota Yamanaka	Ryota Yamanaka
Mode	Tx 11ac-80	

11ac80

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	PSD Reading [dBm /MHz]	Cable Loss [dB]	Atten. Loss [dB]	Duty Factor [dB]	Antenna Gain [dBi]	RBW Correction Factor [dB]	PSD (Conducted)			PSD (e.i.r.p.)		
							Result [dBm /MHz]	Limit [dBm /MHz]	Margin [dB]	Result [dBm /MHz]	Limit [dBm /MHz]	Margin [dB]
5530	-21.62	1.61	10.13	3.09	0.3	0.00	-6.79	11.00	17.79	-6.49	17.00	23.49
5690	-21.27	1.65	10.13	3.09	0.3	0.00	-6.40	11.00	17.40	-6.10	17.00	23.10
5775	-24.13	1.67	10.12	3.09	0.3	0.27	-8.98	30.00	38.98	-8.68	36.00	44.68

Sample Calculation:

PSD: Power Spectral Density

The PSD within 5725 MHz to 5825 MHz are based on any 500 kHz band.

RBW Correction Factor = $10 * \log (\text{Specified bandwidth} / \text{Measured bandwidth})$

PSD Result (Conducted) = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss + Duty Factor + RBW Correction Factor

PSD Result (e.i.r.p.) = Conducted PSD Result + Antenna Gain

*Although the EUT has AP mode, client device limit which is more severe was applied to the test.

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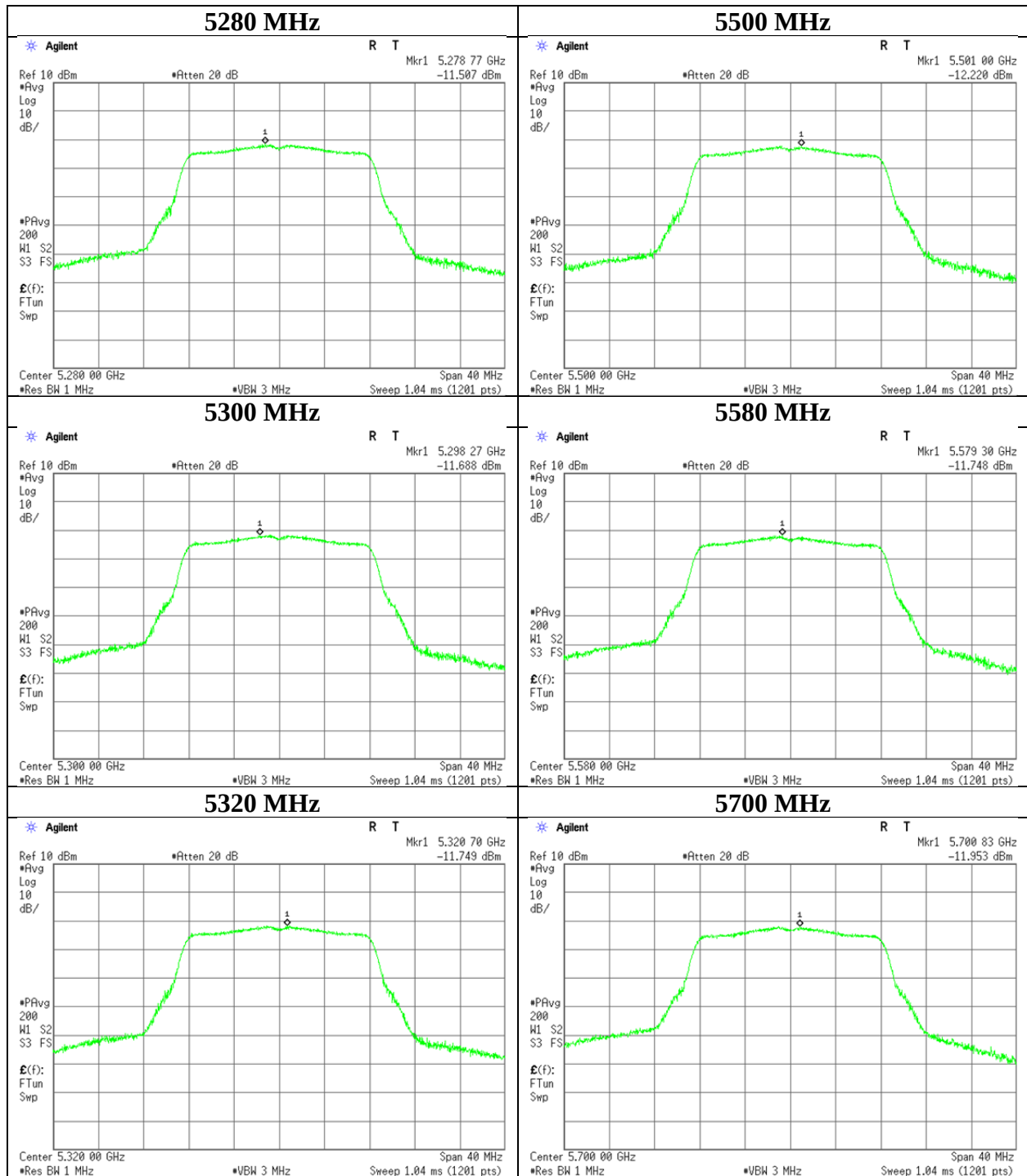
Telephone : +81 596 24 8999

Facsimile : +81 596 24 8124

Maximum Power Spectral Density

Test place	Ise EMC Lab. No.3 Measurement Room	
Report No.	11500824H	
Date	November 11, 2016	November 25, 2016
Temperature / Humidity	24deg. C / 39 % RH	24 deg. C / 45 % RH
Engineer	Ryota Yamanaka	Ryota Yamanaka
Mode	Tx 11a	

11a



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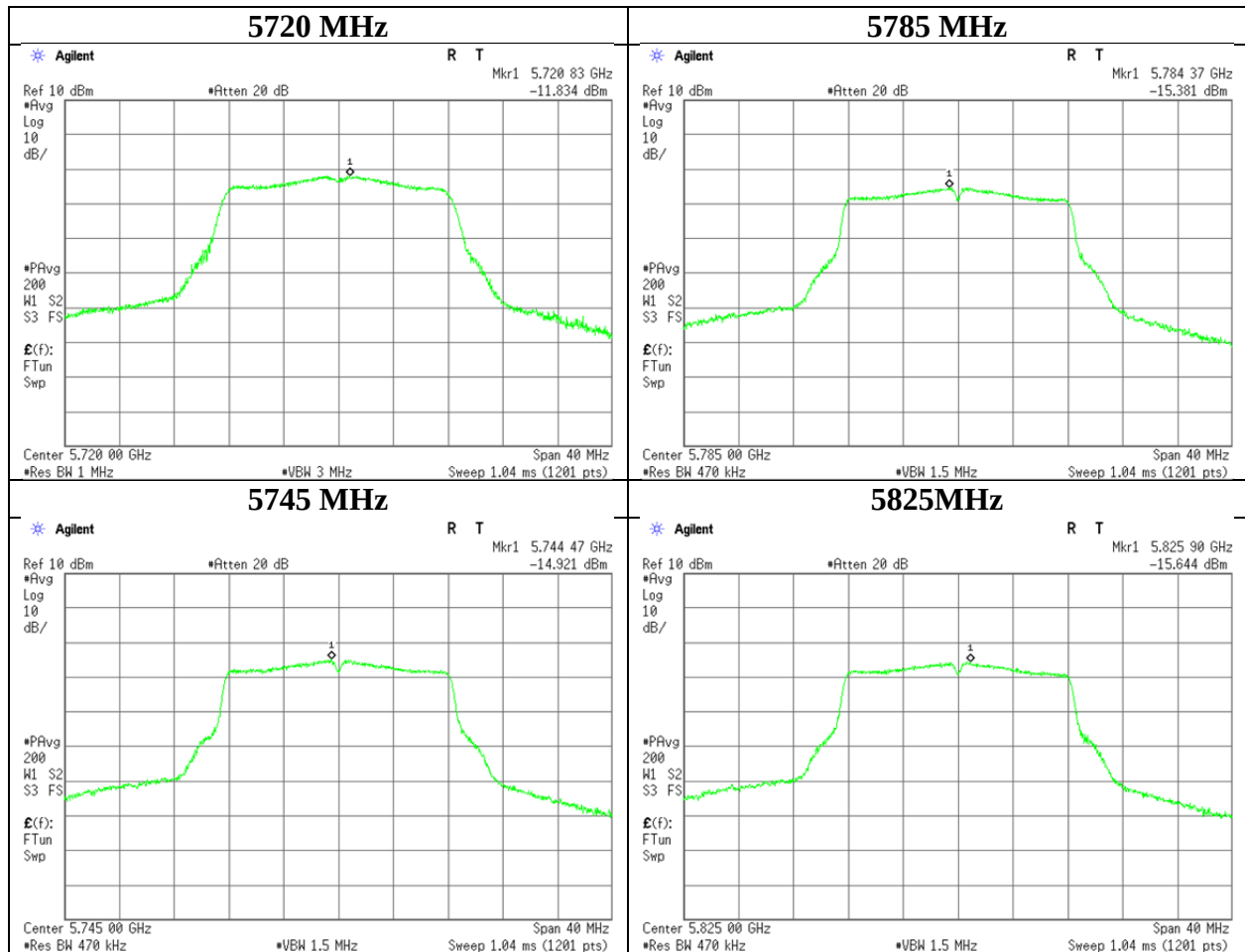
Telephone : +81 596 24 8999

Facsimile : +81 596 24 8124

Maximum Power Spectral Density

Test place	Ise EMC Lab. No.3 Measurement Room	
Report No.	11500824H	
Date	November 11, 2016	November 25, 2016
Temperature / Humidity	24deg. C / 39 % RH	24 deg. C / 45 % RH
Engineer	Ryota Yamanaka	Ryota Yamanaka
Mode	Tx 11a	

11a



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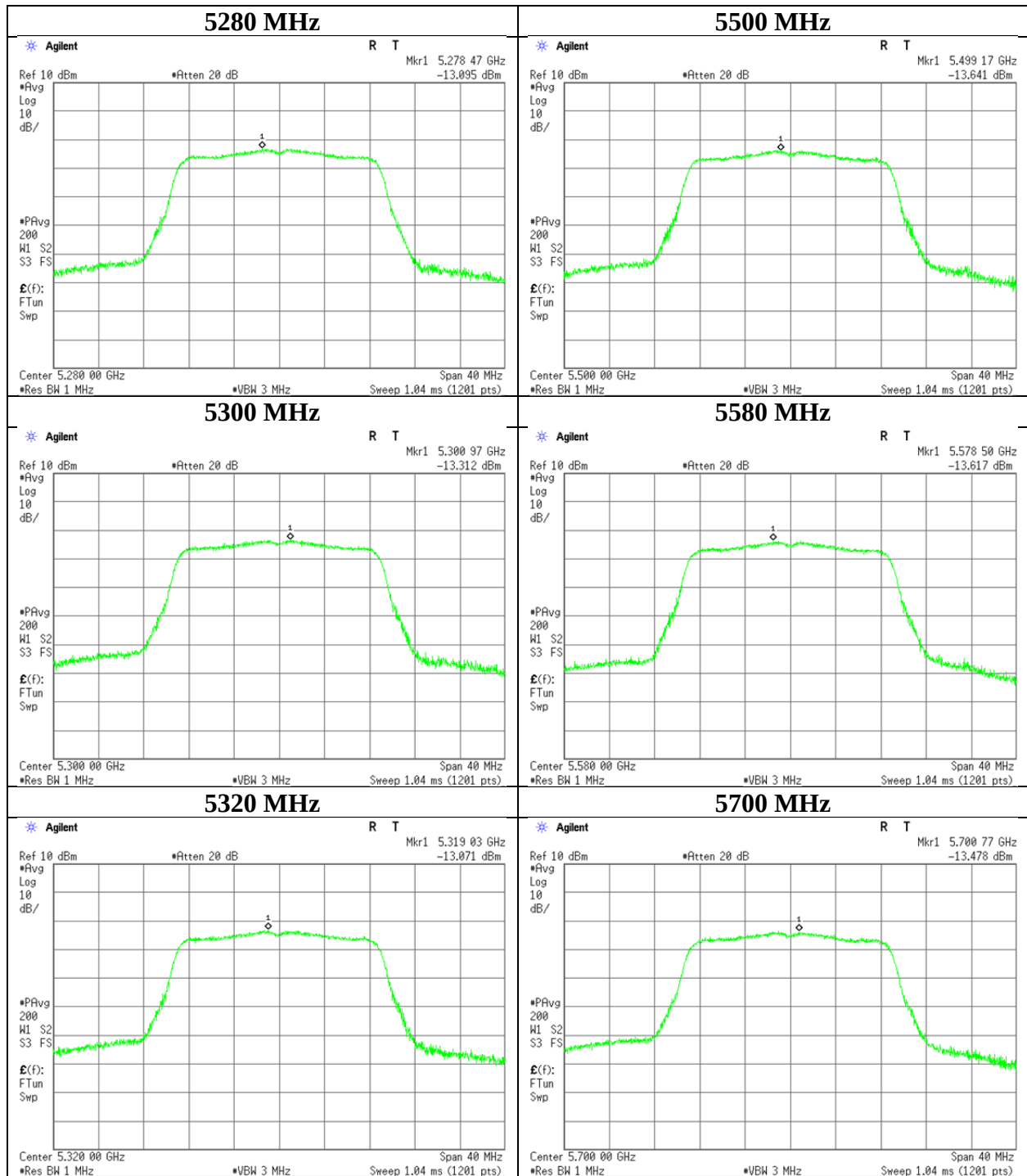
Telephone : +81 596 24 8999

Facsimile : +81 596 24 8124

Maximum Power Spectral Density

Test place	Ise EMC Lab. No.3 Measurement Room	
Report No.	11500824H	
Date	November 11, 2016	November 25, 2016
Temperature / Humidity	24deg. C / 39 % RH	24 deg. C / 45 % RH
Engineer	Ryota Yamanaka	Ryota Yamanaka
Mode	Tx 11n-20	

11n-20



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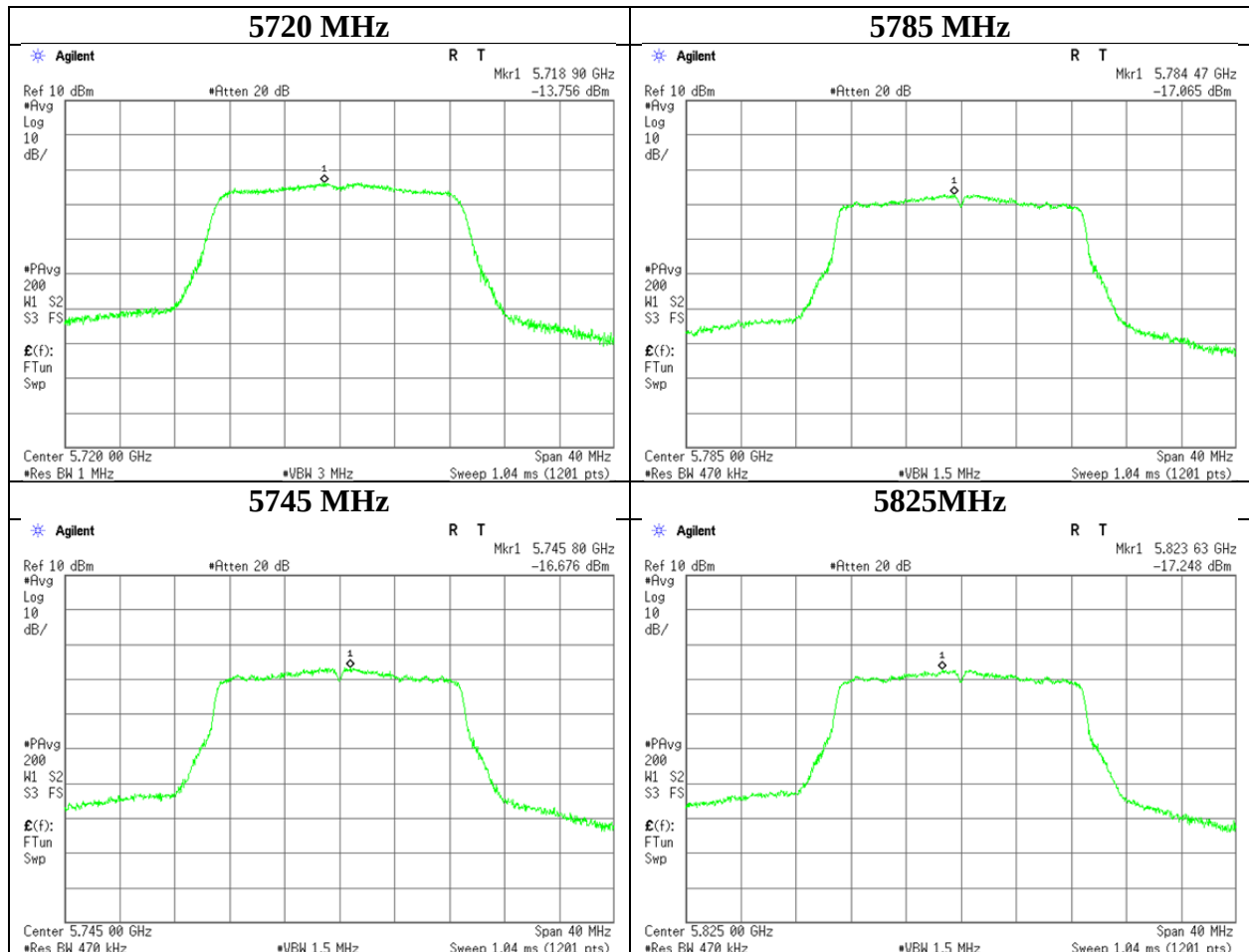
Telephone : +81 596 24 8999

Facsimile : +81 596 24 8124

Maximum Power Spectral Density

Test place	Ise EMC Lab. No.3 Measurement Room	
Report No.	11500824H	
Date	November 11, 2016	November 25, 2016
Temperature / Humidity	24deg. C / 39 % RH	24 deg. C / 45 % RH
Engineer	Ryota Yamanaka	Ryota Yamanaka
Mode	Tx 11n-20	

11n-20



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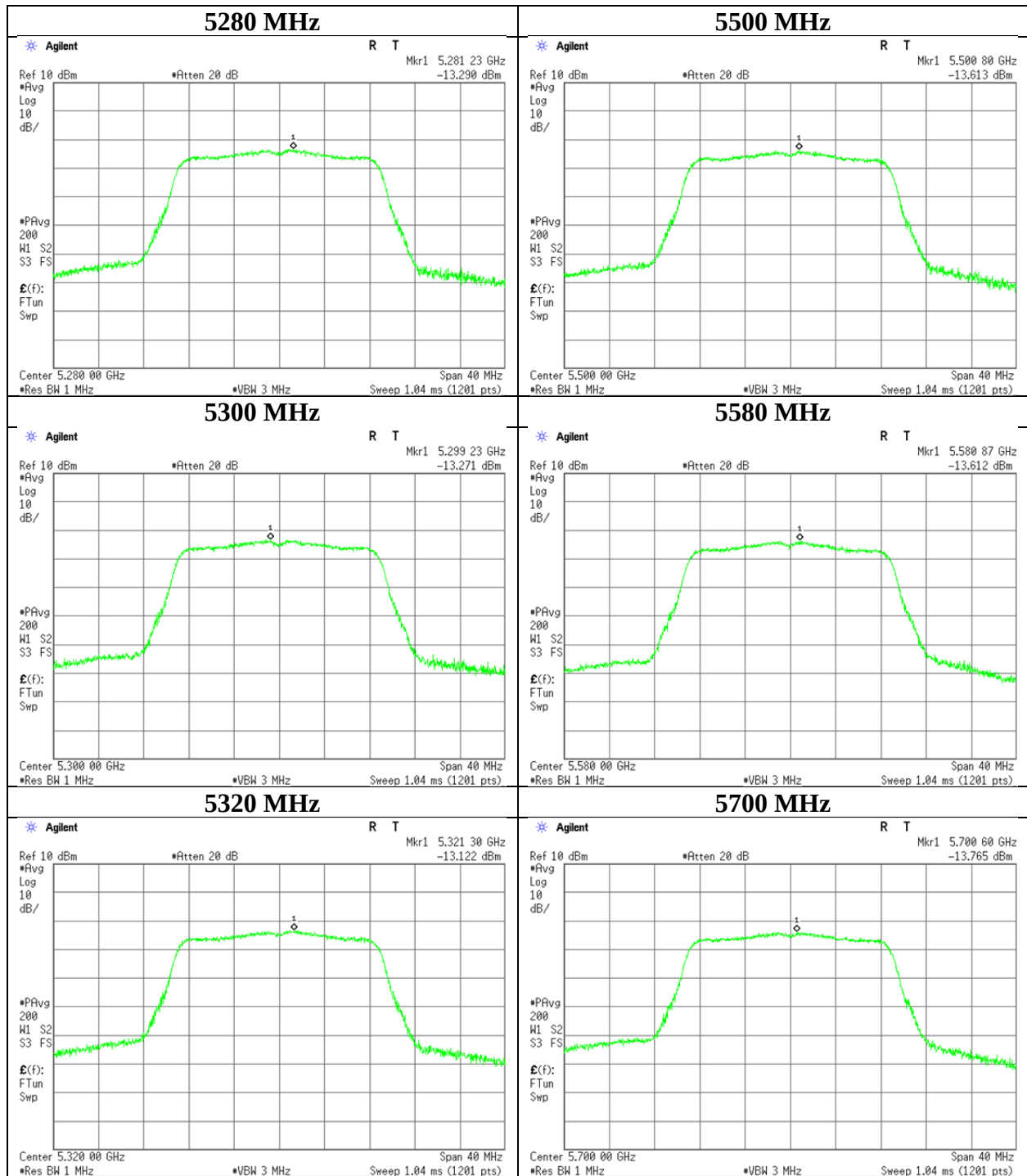
Telephone : +81 596 24 8999

Facsimile : +81 596 24 8124

Maximum Power Spectral Density

Test place	Ise EMC Lab. No.3 Measurement Room	
Report No.	11500824H	
Date	November 11, 2016	November 25, 2016
Temperature / Humidity	24deg. C / 39 % RH	24 deg. C / 45 % RH
Engineer	Ryota Yamanaka	Ryota Yamanaka
Mode	Tx 11ac-20	

11ac-20



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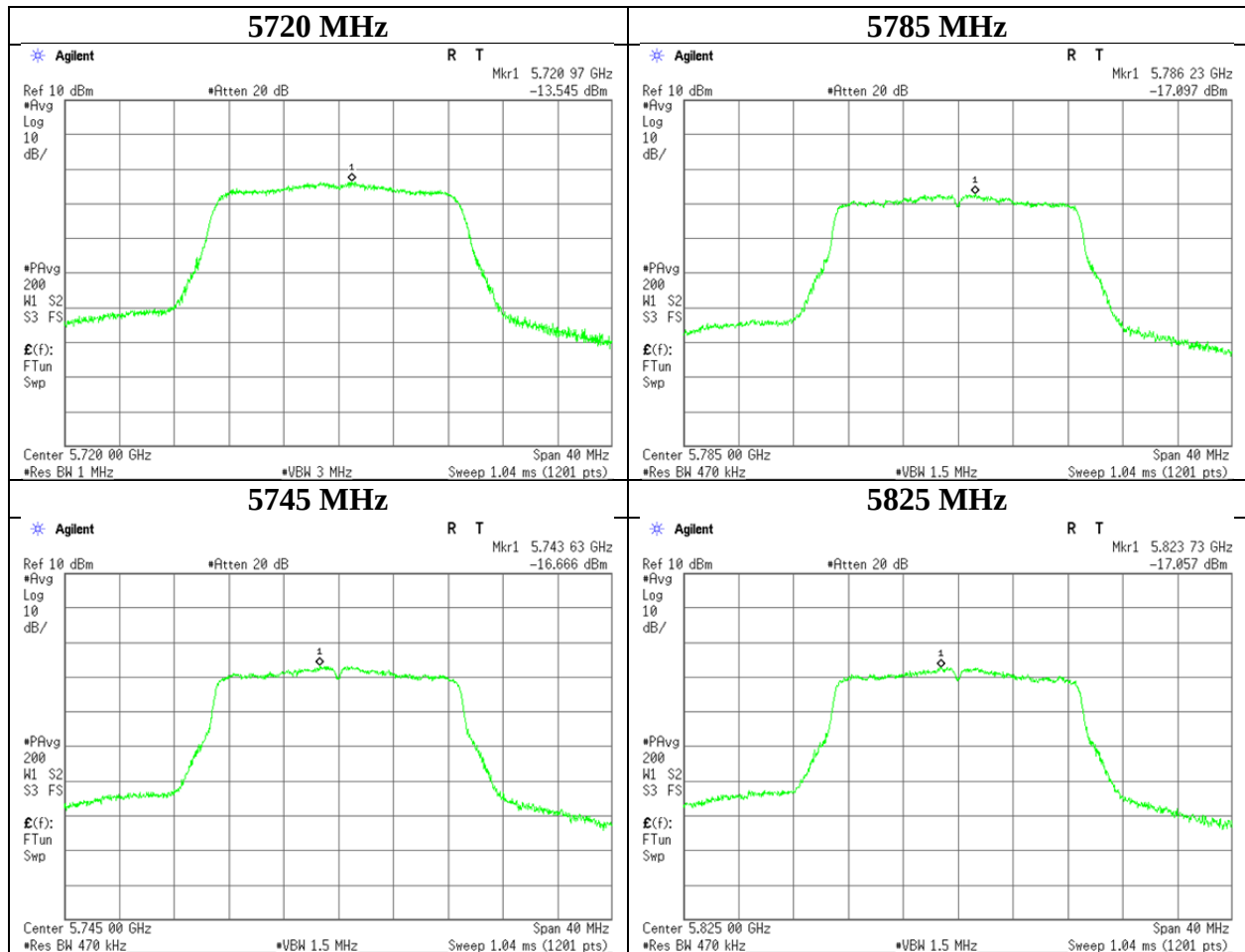
Telephone : +81 596 24 8999

Facsimile : +81 596 24 8124

Maximum Power Spectral Density

Test place	Ise EMC Lab. No.3 Measurement Room	
Report No.	11500824H	
Date	November 11, 2016	November 25, 2016
Temperature / Humidity	24deg. C / 39 % RH	24 deg. C / 45 % RH
Engineer	Ryota Yamanaka	Ryota Yamanaka
Mode	Tx 11ac-20	

11ac-20



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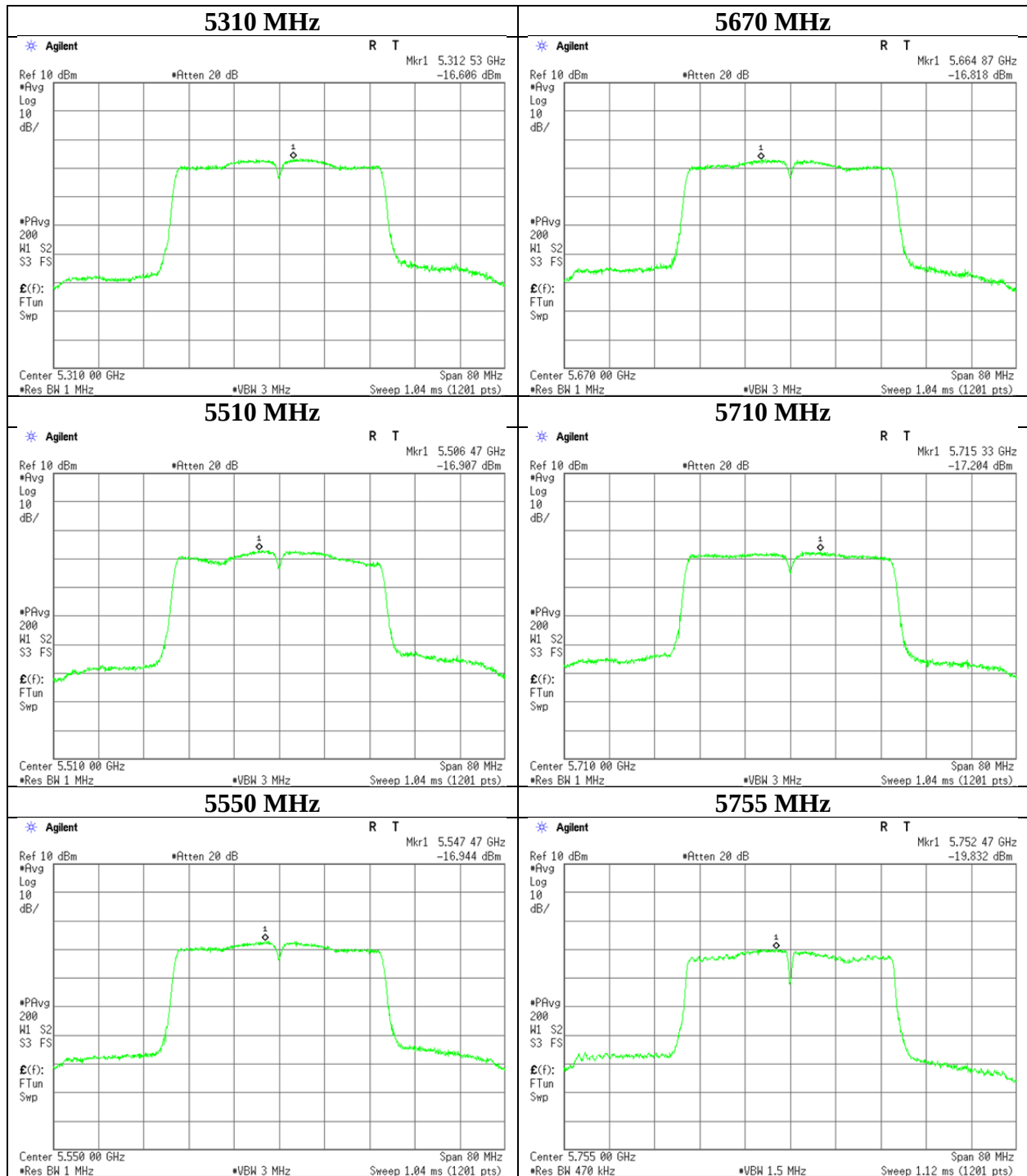
Telephone : +81 596 24 8999

Facsimile : +81 596 24 8124

Maximum Power Spectral Density

Test place	Ise EMC Lab. No.3 Measurement Room	
Report No.	11500824H	
Date	November 11, 2016	November 25, 2016
Temperature / Humidity	24deg. C / 39 % RH	24 deg. C / 45 % RH
Engineer	Ryota Yamanaka	Ryota Yamanaka
Mode	Tx 11n-40	

11n-40



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Ise EMC Lab.

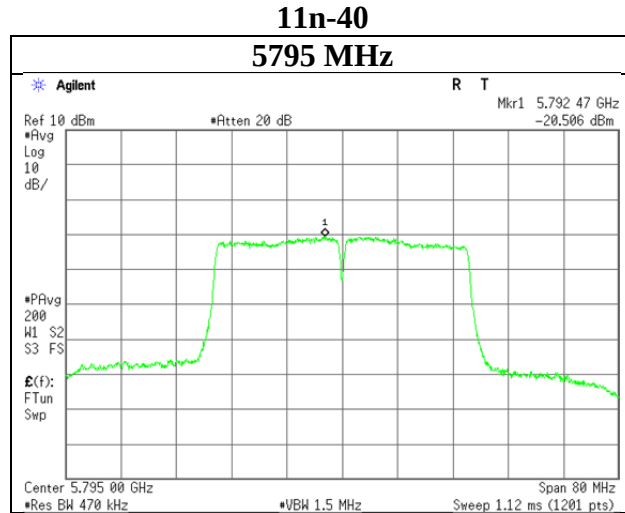
4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone : +81 596 24 8999

Facsimile : +81 596 24 8124

Maximum Power Spectral Density

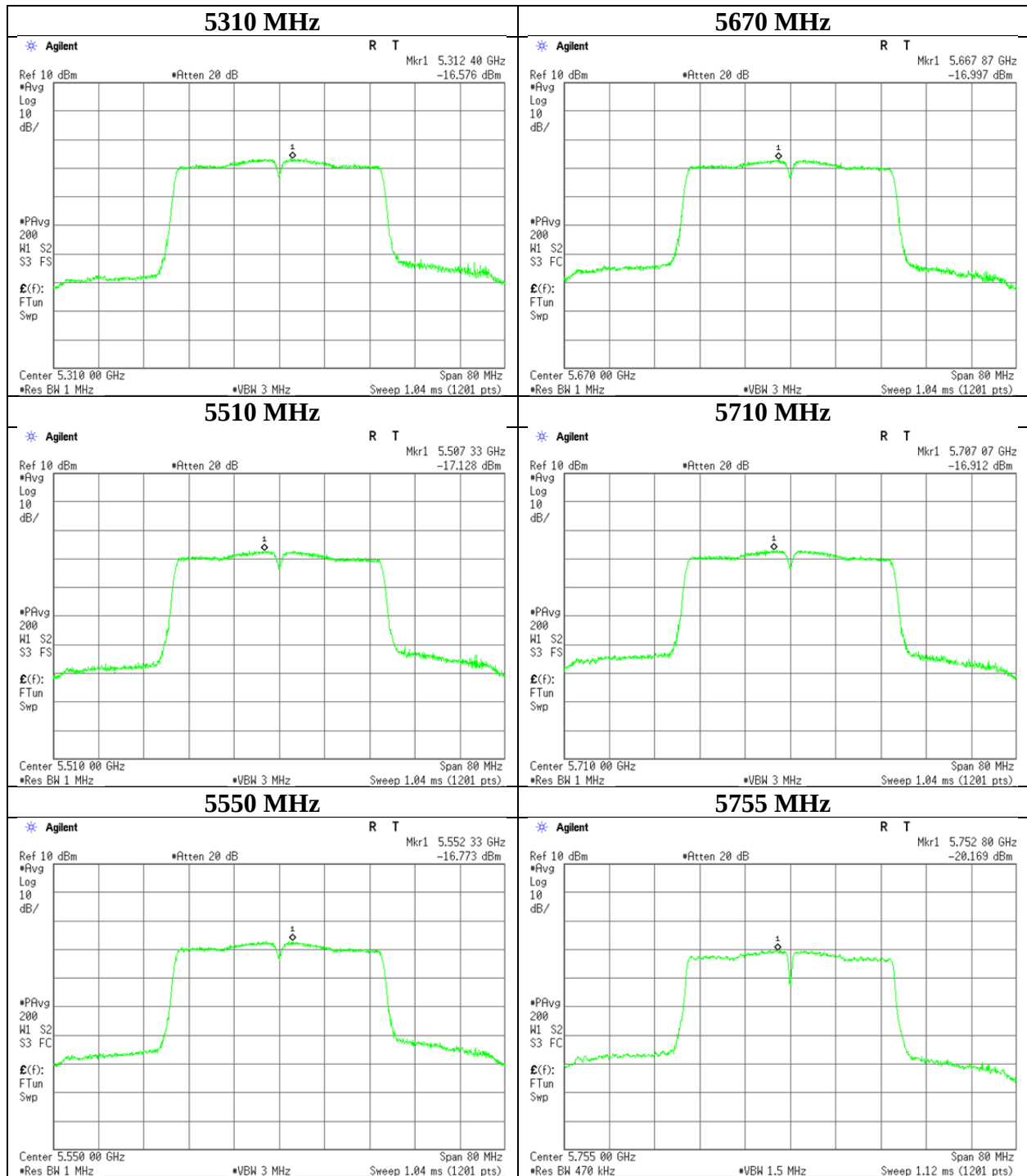
Test place	Ise EMC Lab. No.3 Measurement Room	
Report No.	11500824H	
Date	November 11, 2016	November 25, 2016
Temperature / Humidity	24deg. C / 39 % RH	24 deg. C / 45 % RH
Engineer	Ryota Yamanaka	Ryota Yamanaka
Mode	Tx 11n-40	



Maximum Power Spectral Density

Test place	Ise EMC Lab. No.3 Measurement Room	
Report No.	11500824H	
Date	November 11, 2016	November 25, 2016
Temperature / Humidity	24deg. C / 39 % RH	24 deg. C / 45 % RH
Engineer	Ryota Yamanaka	Ryota Yamanaka
Mode	Tx 11ac-40	

11ac-40



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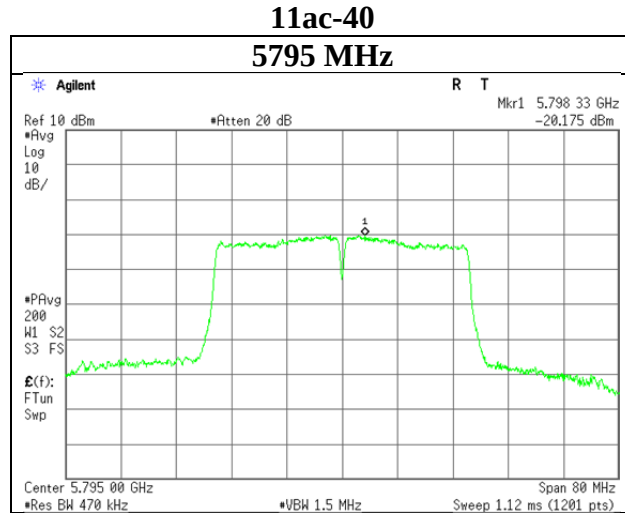
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Facsimile : +81 596 24 8124

Maximum Power Spectral Density

Test place	Ise EMC Lab. No.3 Measurement Room	
Report No.	11500824H	
Date	November 11, 2016	November 25, 2016
Temperature / Humidity	24deg. C / 39 % RH	24 deg. C / 45 % RH
Engineer	Ryota Yamanaka	Ryota Yamanaka
Mode	Tx 11ac-40	



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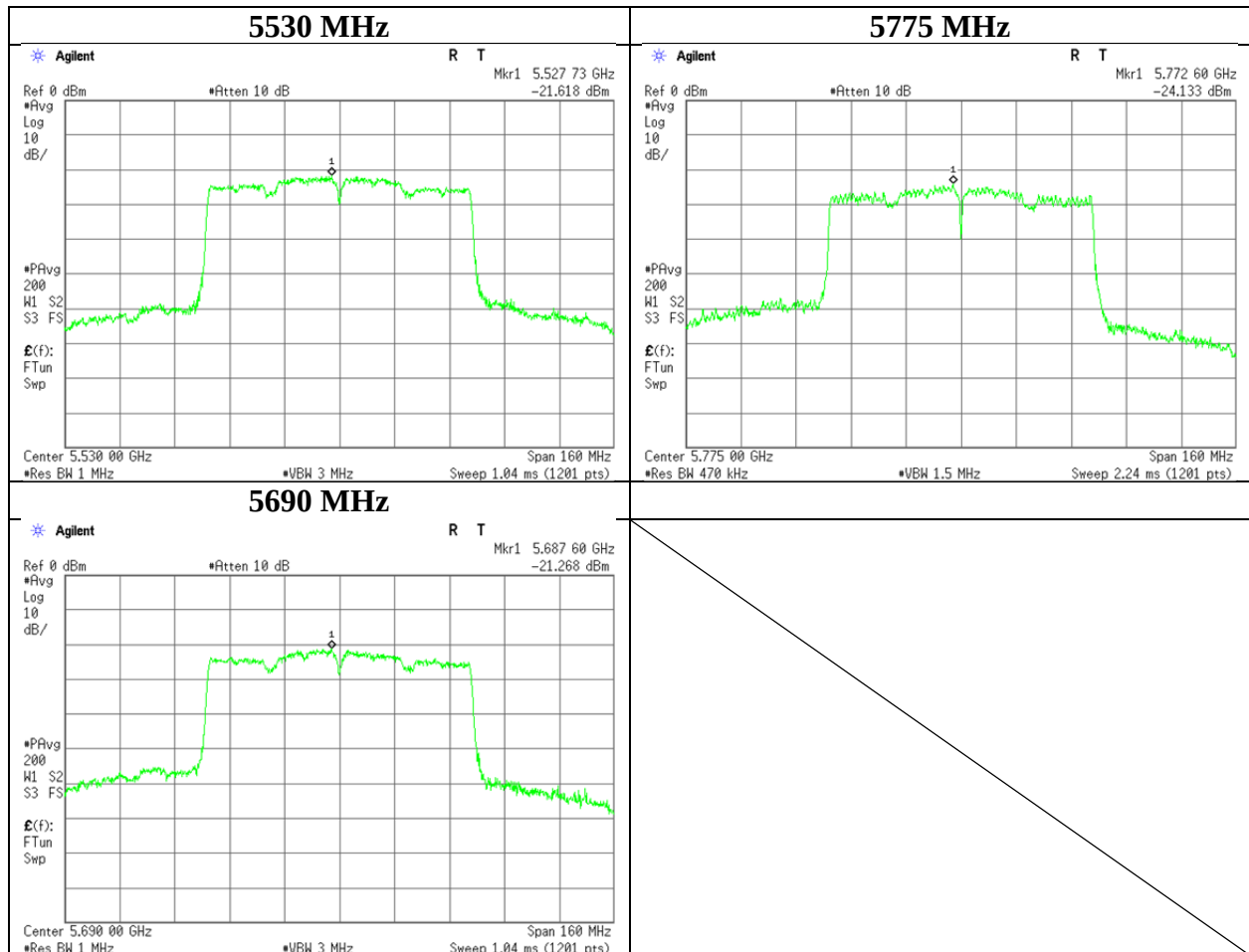
Telephone : +81 596 24 8999

Facsimile : +81 596 24 8124

Maximum Power Spectral Density

Test place	Ise EMC Lab. No.3 Measurement Room	
Report No.	11500824H	
Date	November 11, 2016	November 25, 2016
Temperature / Humidity	24deg. C / 39 % RH	24 deg. C / 45 % RH
Engineer	Ryota Yamanaka	Ryota Yamanaka
Mode	Tx 11ac-80	

11ac-80



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Radiated Spurious Emission

Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber		
Report No.	11500824H		
Date	November 21, 2016	November 22, 2016	November 23, 2016
Temperature / Humidity	24deg. C / 46 % RH	24deg. C / 42 % RH	25deg. C / 39 % RH
Engineer	Tomoki Matsui	Tomoki Matsui	Tomoki Matsui
	(1 GHz-10 GHz)	(10 GHz-18 GHz)	(Above 18GHz)
Mode	Tx 11ac-20 5280 MHz		

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori	10560.000	PK	41.1	39.0	-2.0	33.5	-	44.6	73.9	29.3	Floor noise
Hori	15840.000	PK	40.8	38.2	0.5	32.8	-	46.7	73.9	27.2	Floor noise
Hori	21120.000	PK	42.9	38.2	-1.0	33.0	-	47.1	73.9	26.8	Floor noise
Hori	10560.000	AV	32.5	39.0	-2.0	33.5	-	36.0	53.9	17.9	Floor noise
Hori	15840.000	AV	33.1	38.2	0.5	32.8	-	39.0	53.9	14.9	Floor noise
Hori	21120.000	AV	33.6	38.2	-1.0	33.0	-	37.8	53.9	16.1	Floor noise
Vert	10560.000	PK	41.2	39.0	-2.0	33.5	-	44.7	73.9	29.2	Floor noise
Vert	15840.000	PK	40.8	38.2	0.5	32.8	-	46.7	73.9	27.2	Floor noise
Vert	21120.000	PK	42.9	38.2	-1.0	33.0	-	47.1	73.9	26.8	Floor noise
Vert	10560.000	AV	32.5	39.0	-2.0	33.5	-	36.0	53.9	17.9	Floor noise
Vert	15840.000	AV	33.2	38.2	0.5	32.8	-	39.1	53.9	14.8	Floor noise
Vert	21120.000	AV	33.5	38.2	-1.0	33.0	-	37.7	53.9	16.2	Floor noise

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)

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

Distance factor: 1 GHz - 10 GHz $20\log(4.5\text{ m} / 3.0\text{ m}) = 3.53\text{ dB}$
 10 GHz - 40 GHz $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.5\text{ dB}$

Radiated Spurious Emission

Test place : Ise EMC Lab. No.3 Semi Anechoic Chamber
Report No. : 11500824H
Date : November 21, 2016 November 22, 2016 November 23, 2016
Temperature / Humidity : 24deg. C / 46 % RH 24deg. C / 42 % RH 25deg. C / 39 % RH
Engineer : Tomoki Matsui Tomoki Matsui Tomoki Matsui
(1 GHz-10 GHz) (10 GHz-18 GHz) (Above 18GHz and Below 1GHz)
Mode : Tx 11ac-20 5300 MHz

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori	216.000	QP	51.4	11.8	9.2	32.0	-	40.4	43.5	3.1	
Hori	250.012	QP	47.4	12.5	9.5	32.0	-	37.4	46.0	8.6	
Hori	300.000	QP	48.7	13.5	9.9	31.9	-	40.2	46.0	5.8	
Hori	500.000	QP	40.7	17.6	11.3	32.0	-	37.6	46.0	8.4	
Hori	550.000	QP	38.1	18.4	11.6	32.0	-	36.1	46.0	9.9	
Hori	891.000	QP	38.4	22.0	13.4	31.0	-	42.8	46.0	3.2	
Hori	10600.000	PK	41.4	39.1	-2.0	33.5	-	45.0	73.9	28.9	Floor noise
Hori	15900.000	PK	41.6	38.1	0.6	32.9	-	47.4	73.9	26.5	Floor noise
Hori	21200.000	PK	43.0	38.2	-1.0	33.0	-	47.2	73.9	26.7	Floor noise
Hori	10600.000	AV	32.8	39.1	-2.0	33.5	-	36.4	53.9	17.5	Floor noise
Hori	15900.000	AV	33.0	38.1	0.6	32.9	-	38.8	53.9	15.1	Floor noise
Hori	21200.000	AV	34.2	38.2	-1.0	33.0	-	38.4	53.9	15.5	Floor noise
Vert	53.408	QP	51.0	9.6	7.4	32.2	-	35.8	40.0	4.2	
Vert	86.600	QP	47.4	7.9	7.9	32.2	-	31.0	40.0	9.0	
Vert	170.320	QP	42.6	16.0	8.8	32.1	-	35.3	43.5	8.2	
Vert	216.000	QP	48.2	11.8	9.2	32.0	-	37.2	43.5	6.3	
Vert	300.000	QP	47.8	13.5	9.9	31.9	-	39.3	46.0	6.7	
Vert	500.000	QP	38.5	17.6	11.3	32.0	-	35.4	46.0	10.6	
Vert	891.000	QP	33.4	22.0	13.4	31.0	-	37.8	46.0	8.2	
Vert	10600.000	PK	41.4	39.1	-2.0	33.5	-	45.0	73.9	28.9	Floor noise
Vert	15900.000	PK	41.6	38.1	0.6	32.9	-	47.4	73.9	26.5	Floor noise
Vert	21200.000	PK	43.0	38.2	-1.0	33.0	-	47.2	73.9	26.7	Floor noise
Vert	10600.000	AV	32.9	39.1	-2.0	33.5	-	36.5	53.9	17.4	Floor noise
Vert	15900.000	AV	32.9	38.1	0.6	32.9	-	38.7	53.9	15.2	Floor noise
Vert	21200.000	AV	34.2	38.2	-1.0	33.0	-	38.4	53.9	15.5	Floor noise

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)

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

Distance factor: 1 GHz - 10 GHz 20log (4.5 m / 3.0 m) = 3.53 dB
 10 GHz - 40 GHz 20log (1.0 m / 3.0 m) = -9.5 dB

Radiated Spurious Emission

Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber		
Report No.	11500824H		
Date	November 21, 2016	November 22, 2016	November 23, 2016
Temperature / Humidity	24deg. C / 46 % RH	24deg. C / 42 % RH	25deg. C / 39 % RH
Engineer	Tomoki Matsui	Tomoki Matsui	Tomoki Matsui
	(1 GHz-10 GHz)	(10 GHz-18 GHz)	(Above 18GHz)
Mode	Tx 11ac-20 5320 MHz		

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori	5350.000	PK	51.3	31.3	7.6	31.8	-	58.4	73.9	15.5	
Hori	10640.000	PK	41.3	39.2	-2.0	33.5	-	45.0	73.9	28.9	Floor noise
Hori	15960.000	PK	42.1	38.0	0.6	32.9	-	47.8	73.9	26.1	Floor noise
Hori	21280.000	PK	44.1	38.1	-1.0	33.0	-	48.2	73.9	25.7	Floor noise
Hori	5350.000	AV	36.4	31.3	7.6	31.8	1.5	45.0	53.9	8.9	*1)
Hori	10640.000	AV	32.8	39.2	-2.0	33.5	-	36.5	53.9	17.4	Floor noise
Hori	15960.000	AV	33.2	38.0	0.6	32.9	-	38.9	53.9	15.0	Floor noise
Hori	21280.000	AV	34.5	38.1	-1.0	33.0	-	38.6	53.9	15.3	Floor noise
Vert	5350.000	PK	49.6	31.3	7.6	31.8	-	56.7	73.9	17.2	
Vert	10640.000	PK	41.3	39.2	-2.0	33.5	-	45.0	73.9	28.9	Floor noise
Vert	15960.000	PK	42.1	38.0	0.6	32.9	-	47.8	73.9	26.1	Floor noise
Vert	21280.000	PK	44.1	38.1	-1.0	33.0	-	48.2	73.9	25.7	Floor noise
Vert	5350.000	AV	37.1	31.3	7.6	31.8	1.5	45.7	53.9	8.2	*1)
Vert	10640.000	AV	32.8	39.2	-2.0	33.5	-	36.5	53.9	17.4	Floor noise
Vert	15960.000	AV	33.2	38.0	0.6	32.9	-	38.9	53.9	15.0	Floor noise
Vert	21280.000	AV	34.5	38.1	-1.0	33.0	-	38.6	53.9	15.3	Floor noise

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier) + Duty factor

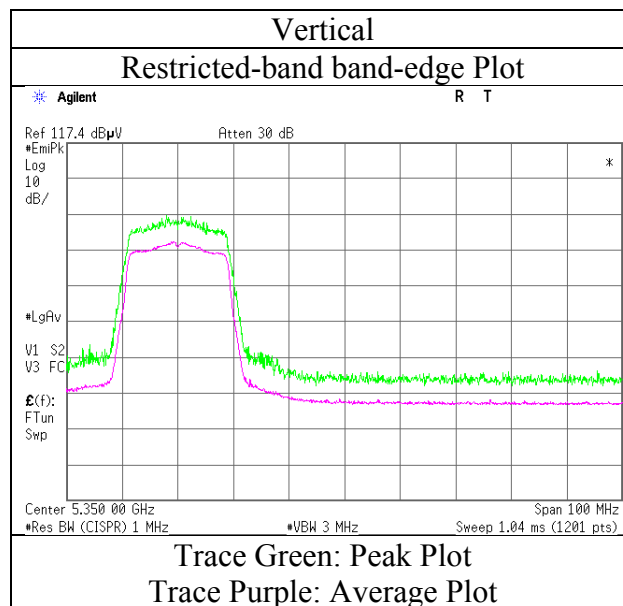
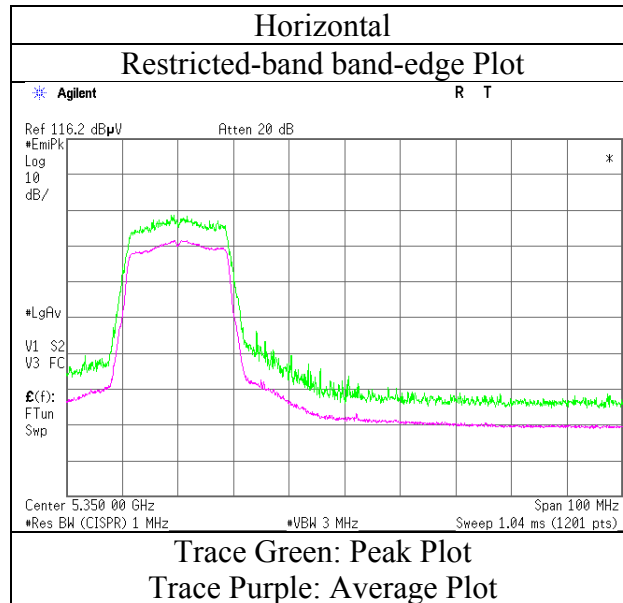
*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

Distance factor: 1 GHz - 10 GHz $20\log(4.5\text{ m} / 3.0\text{ m}) = 3.53\text{ dB}$
 10 GHz - 40 GHz $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.5\text{ dB}$

*1) Not Out of Band emission(Leakage Power)

Radiated Spurious Emission

Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Report No.	11500824H
Date	November 21, 2016
Temperature / Humidity	24deg. C / 46 % RH
Engineer	Tomoki Matsui
Mode	Tx 11ac-20 5320 MHz



* Final result of restricted band edge was shown in tabular data.

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Telephone : +81 596 24 8999

Facsimile : +81 596 24 8124

Radiated Spurious Emission

Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber		
Report No.	11500824H		
Date	November 21, 2016	November 22, 2016	November 23, 2016
Temperature / Humidity	24deg. C / 46 % RH	24deg. C / 42 % RH	25deg. C / 39 % RH
Engineer	Tomoki Matsui	Tomoki Matsui	Tomoki Matsui
	(1 GHz-10 GHz)	(10 GHz-18 GHz)	(Above 18GHz)
Mode	Tx 11ac-20 5500 MHz		

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori	3666.708	PK	44.1	28.7	6.9	32.1	-	47.6	73.9	26.3	
Hori	5460.000	PK	46.6	31.2	7.7	31.8	-	53.7	73.9	20.2	
Hori	5470.000	PK	52.3	31.2	7.7	31.8	-	59.4	68.2	8.8	
Hori	11000.000	PK	41.7	40.0	-2.0	33.6	-	46.1	73.9	27.8	Floor noise
Hori	16500.000	PK	41.2	39.4	0.3	32.8	-	48.1	73.9	25.8	Floor noise
Hori	22000.000	PK	43.2	38.0	-0.8	32.7	-	47.7	73.9	26.2	Floor noise
Hori	3666.708	AV	37.8	28.7	6.9	32.1	1.5	42.8	53.9	11.1	
Hori	5460.000	AV	35.5	31.2	7.7	31.8	1.5	44.1	53.9	9.8	*1)
Hori	11000.000	AV	33.1	40.0	-2.0	33.6	-	37.5	53.9	16.4	Floor noise
Hori	16500.000	AV	33.3	39.4	0.3	32.8	-	40.2	53.9	13.7	Floor noise
Hori	22000.000	AV	34.2	38.0	-0.8	32.7	-	38.7	53.9	15.2	Floor noise
Vert	3666.708	PK	44.3	28.7	6.9	32.1	-	47.8	73.9	26.1	
Vert	5460.000	PK	45.3	31.2	7.7	31.8	-	52.4	73.9	21.5	
Vert	5470.000	PK	53.9	31.2	7.7	31.8	-	61.0	68.2	7.2	
Vert	11000.000	PK	41.7	40.0	-2.0	33.6	-	46.1	73.9	27.8	Floor noise
Vert	16500.000	PK	41.2	39.4	0.3	32.8	-	48.1	73.9	25.8	Floor noise
Vert	22000.000	PK	43.2	38.0	-0.8	32.7	-	47.7	73.9	26.2	Floor noise
Vert	3666.708	AV	38.5	28.7	6.9	32.1	1.5	43.5	53.9	10.4	
Vert	5460.000	AV	34.6	31.2	7.7	31.8	1.5	43.2	53.9	10.7	*1)
Vert	11000.000	AV	33.3	40.0	-2.0	33.6	-	37.7	53.9	16.2	Floor noise
Vert	16500.000	AV	33.2	39.4	0.3	32.8	-	40.1	53.9	13.8	Floor noise
Vert	22000.000	AV	34.2	38.0	-0.8	32.7	-	38.7	53.9	15.2	Floor noise

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier) + Duty factor

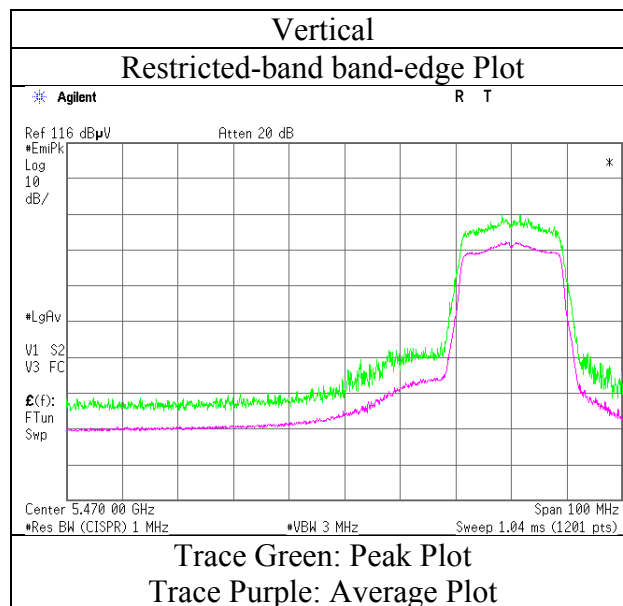
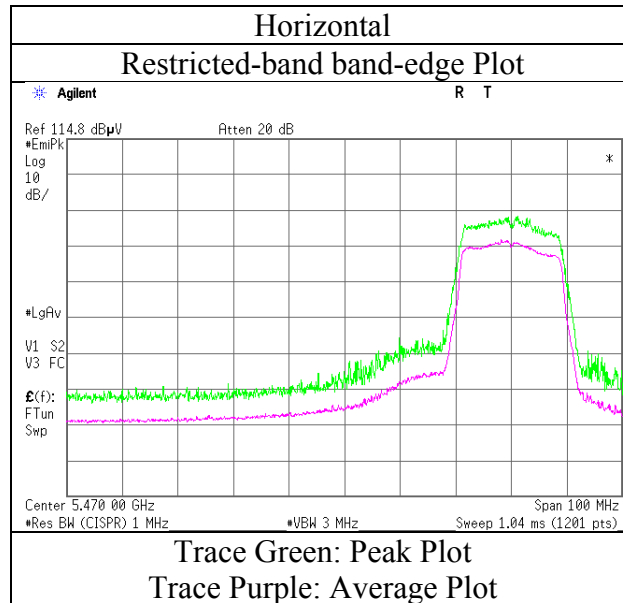
*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

Distance factor: 1 GHz - 10 GHz 20log (4.5 m / 3.0 m) = 3.53 dB
 10 GHz - 40 GHz 20log (1.0 m / 3.0 m) = -9.5 dB

*1) Not Out of Band emission(Leakage Power)

Radiated Spurious Emission

Test place : Ise EMC Lab. No.3 Semi Anechoic Chamber
Report No. : 11500824H
Date : November 21, 2016
Temperature / Humidity : 24deg. C / 46 % RH
Engineer : Tomoki Matsui
Mode : Tx 11ac-20 5500 MHz



* Final result of restricted band edge was shown in tabular data.

Radiated Spurious Emission

Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber		
Report No.	11500824H		
Date	November 21, 2016	November 22, 2016	November 23, 2016
Temperature / Humidity	24deg. C / 46 % RH	24deg. C / 42 % RH	25deg. C / 39 % RH
Engineer	Tomoki Matsui	Tomoki Matsui	Tomoki Matsui
	(1 GHz-10 GHz)	(10 GHz-18 GHz)	(Above 18GHz)
Mode	Tx 11ac-20 5580 MHz		

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori	3720.052	PK	45.2	28.8	6.9	32.1	-	48.8	73.9	25.1	
Hori	11160.000	PK	41.5	39.7	-1.8	33.5	-	45.9	73.9	28.0	Floor noise
Hori	16740.000	PK	40.8	40.1	0.2	32.8	-	48.3	73.9	25.6	Floor noise
Hori	22320.000	PK	43.9	38.5	-0.7	32.5	-	49.2	73.9	24.7	Floor noise
Hori	3720.052	AV	39.0	28.8	6.9	32.1	1.5	44.1	53.9	9.8	
Hori	11160.000	AV	33.2	39.7	-1.8	33.5	-	37.6	53.9	16.3	Floor noise
Hori	16740.000	AV	33.1	40.1	0.2	32.8	-	40.6	53.9	13.3	Floor noise
Hori	22320.000	AV	34.9	38.5	-0.7	32.5	-	40.2	53.9	13.7	Floor noise
Vert	3720.052	PK	45.1	28.8	6.9	32.1	-	48.7	73.9	25.2	
Vert	11160.000	PK	41.5	39.7	-1.8	33.5	-	45.9	73.9	28.0	Floor noise
Vert	16740.000	PK	40.6	40.1	0.2	32.8	-	48.1	73.9	25.8	Floor noise
Vert	22320.000	PK	43.9	38.5	-0.7	32.5	-	49.2	73.9	24.7	Floor noise
Vert	3720.052	AV	39.1	28.8	6.9	32.1	1.5	44.2	53.9	9.7	
Vert	11160.000	AV	33.2	39.7	-1.8	33.5	-	37.6	53.9	16.3	Floor noise
Vert	16740.000	AV	33.0	40.1	0.2	32.8	-	40.5	53.9	13.4	Floor noise
Vert	22320.000	AV	34.9	38.5	-0.7	32.5	-	40.2	53.9	13.7	Floor noise

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier) + Duty factor

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

Distance factor: 1 GHz - 10 GHz 20log (4.5 m / 3.0 m) = 3.53 dB
 10 GHz - 40 GHz 20log (1.0 m / 3.0 m) = -9.5 dB

Radiated Spurious Emission

Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber		
Report No.	11500824H		
Date	November 21, 2016	November 22, 2016	November 23, 2016
Temperature / Humidity	24deg. C / 46 % RH	24deg. C / 42 % RH	25deg. C / 39 % RH
Engineer	Tomoki Matsui	Tomoki Matsui	Tomoki Matsui
	(1 GHz-10 GHz)	(10 GHz-18 GHz)	(Above 18GHz)
Mode	Tx 11ac-20 5700 MHz		

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori	3800.047	PK	45.3	28.9	7.0	32.0	-	49.2	73.9	24.7	
Hori	5725.000	PK	53.8	31.4	7.8	31.8	-	61.2	68.2	7.0	
Hori	11400.000	PK	41.0	39.3	-1.6	33.4	-	45.3	73.9	28.6	Floor noise
Hori	17100.000	PK	42.9	41.4	0.0	32.8	-	51.5	73.9	22.4	Floor noise
Hori	22800.000	PK	43.0	39.4	-0.6	32.4	-	49.4	73.9	24.5	Floor noise
Hori	3800.047	AV	38.8	28.9	7.0	32.0	1.5	44.2	53.9	9.7	
Hori	11400.000	AV	32.6	39.3	-1.6	33.4	-	36.9	53.9	17.0	Floor noise
Hori	17100.000	AV	33.3	41.4	0.0	32.8	-	41.9	53.9	12.0	Floor noise
Hori	22800.000	AV	35.0	39.4	-0.6	32.4	-	41.4	53.9	12.5	Floor noise
Vert	3800.047	PK	45.3	28.9	7.0	32.0	-	49.2	73.9	24.7	
Vert	5725.000	PK	54.8	31.4	7.8	31.8	-	62.2	68.2	6.0	
Vert	11400.000	PK	41.0	39.3	-1.6	33.4	-	45.3	73.9	28.6	Floor noise
Vert	17100.000	PK	43.0	41.4	0.0	32.8	-	51.6	73.9	22.3	Floor noise
Vert	22800.000	PK	43.0	39.4	-0.6	32.4	-	49.4	73.9	24.5	Floor noise
Vert	3800.047	AV	39.2	28.9	7.0	32.0	1.5	44.6	53.9	9.3	
Vert	11400.000	AV	32.5	39.3	-1.6	33.4	-	36.8	53.9	17.1	Floor noise
Vert	17100.000	AV	33.3	41.4	0.0	32.8	-	41.9	53.9	12.0	Floor noise
Vert	22800.000	AV	35.0	39.4	-0.6	32.4	-	41.4	53.9	12.5	Floor noise

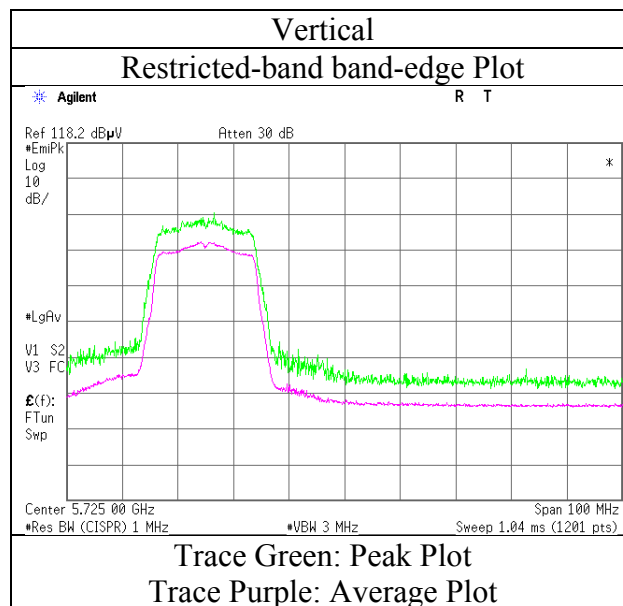
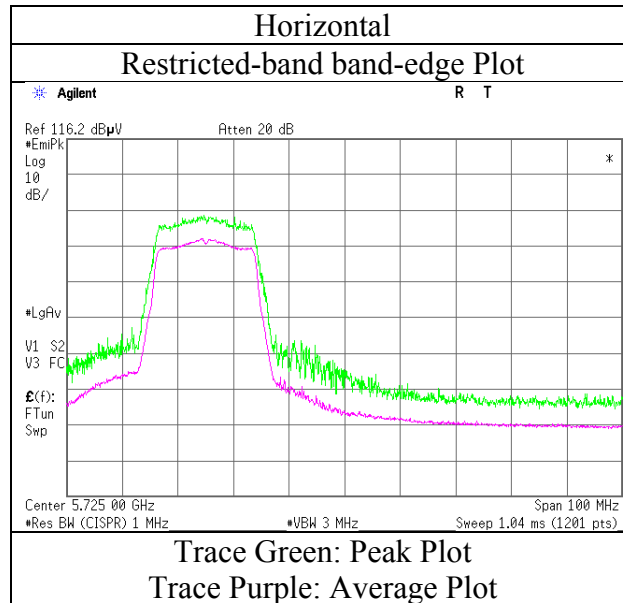
Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier) + Duty factor

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

Distance factor: 1 GHz - 10 GHz 20log (4.5 m / 3.0 m) = 3.53 dB
 10 GHz - 40 GHz 20log (1.0 m / 3.0 m) = -9.5 dB

Radiated Spurious Emission

Test place : Ise EMC Lab. No.3 Semi Anechoic Chamber
Report No. : 11500824H
Date : November 21, 2016
Temperature / Humidity : 24deg. C / 46 % RH
Engineer : Tomoki Matsui
Mode : Tx 11ac-20 5700 MHz



* Final result of restricted band edge was shown in tabular data.

Radiated Spurious Emission

Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber		
Report No.	11500824H		
Date	November 21, 2016	November 22, 2016	November 23, 2016
Temperature / Humidity	24deg. C / 46 % RH	24deg. C / 42 % RH	25deg. C / 39 % RH
Engineer	Tomoki Matsui	Tomoki Matsui	Tomoki Matsui
	(1 GHz-10 GHz)	(10 GHz-18 GHz)	(Above 18GHz)
Mode	Tx 11ac-20 5720 MHz		

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori	3813.362	PK	45.2	28.9	7.0	32.0	-	49.1	73.9	24.8	
Hori	11440.000	PK	41.4	39.2	-1.6	33.4	-	45.6	73.9	28.3	Floor noise
Hori	17160.000	PK	41.7	41.7	0.0	32.7	-	50.7	73.9	23.2	Floor noise
Hori	22880.000	PK	43.5	39.5	-0.5	32.4	-	50.1	73.9	23.8	Floor noise
Hori	3813.362	AV	38.9	28.9	7.0	32.0	1.5	44.3	53.9	9.6	
Hori	11440.000	AV	32.4	39.2	-1.6	33.4	-	36.6	53.9	17.3	Floor noise
Hori	17160.000	AV	33.6	41.7	0.0	32.7	-	42.6	53.9	11.3	Floor noise
Hori	22880.000	AV	34.5	39.5	-0.5	32.4	-	41.1	53.9	12.8	Floor noise
Vert	3813.362	PK	45.2	28.9	7.0	32.0	-	49.1	73.9	24.8	
Vert	11440.000	PK	41.4	39.2	-1.6	33.4	-	45.6	73.9	28.3	Floor noise
Vert	17160.000	PK	41.7	41.7	0.0	32.7	-	50.7	73.9	23.2	Floor noise
Vert	22880.000	PK	43.5	39.5	-0.5	32.4	-	50.1	73.9	23.8	Floor noise
Vert	3813.362	AV	39.3	28.9	7.0	32.0	1.5	44.7	53.9	9.2	
Vert	11440.000	AV	32.4	39.2	-1.6	33.4	-	36.6	53.9	17.3	Floor noise
Vert	17160.000	AV	33.6	41.7	0.0	32.7	-	42.6	53.9	11.3	Floor noise
Vert	22880.000	AV	34.3	39.5	-0.5	32.4	-	40.9	53.9	13.0	Floor noise

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier) + Duty factor

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

Distance factor: 1 GHz - 10 GHz $20\log(4.5\text{ m} / 3.0\text{ m}) = 3.53\text{ dB}$
 10 GHz - 40 GHz $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.5\text{ dB}$

Radiated Spurious Emission

Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber		
Report No.	11500824H		
Date	November 21, 2016	November 22, 2016	November 23, 2016
Temperature / Humidity	24deg. C / 46 % RH	24deg. C / 42 % RH	25deg. C / 39 % RH
Engineer	Tomoki Matsui	Tomoki Matsui	Tomoki Matsui
	(1 GHz-10 GHz)	(10 GHz-18 GHz)	(Above 18GHz)
Mode	Tx 11ac-20 5745 MHz		

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori	3830.000	PK	45.4	28.9	7.0	32.0	-	49.3	73.9	24.6	
Hori	5650.000	PK	39.5	31.3	7.8	31.8	-	46.8	68.2	21.4	
Hori	5700.000	PK	45.1	31.4	7.8	31.8	-	52.5	105.2	52.7	
Hori	5720.000	PK	60.5	31.4	7.8	31.8	-	67.9	110.8	42.9	
Hori	5725.000	PK	63.6	31.4	7.8	31.8	-	71.0	122.2	51.2	
Hori	11490.000	PK	40.8	39.1	-1.6	33.4	-	44.9	73.9	29.0	Floor noise
Hori	17235.000	PK	41.7	42.2	0.2	32.7	-	51.4	73.9	22.5	Floor noise
Hori	22980.000	PK	42.8	39.7	-0.5	32.3	-	49.7	73.9	24.2	Floor noise
Hori	3830.000	AV	39.2	28.9	7.0	32.0	1.5	44.6	53.9	9.3	
Hori	11490.000	AV	32.4	39.1	-1.6	33.4	-	36.5	53.9	17.4	Floor noise
Hori	17235.000	AV	33.5	42.2	0.2	32.7	-	43.2	53.9	10.7	Floor noise
Hori	22980.000	AV	34.0	39.7	-0.5	32.3	-	40.9	53.9	13.0	Floor noise
Vert	3830.000	PK	45.6	28.9	7.0	32.0	-	49.5	73.9	24.4	
Vert	5650.000	PK	39.6	31.3	7.8	31.8	-	46.9	68.2	21.3	
Vert	5700.000	PK	46.9	31.4	7.8	31.8	-	54.3	105.2	50.9	
Vert	5720.000	PK	62.3	31.4	7.8	31.8	-	69.7	110.8	41.1	
Vert	5725.000	PK	64.7	31.4	7.8	31.8	-	72.1	122.2	50.1	
Vert	11490.000	PK	40.8	39.1	-1.6	33.4	-	44.9	73.9	29.0	Floor noise
Vert	17235.000	PK	41.7	42.2	0.2	32.7	-	51.4	73.9	22.5	Floor noise
Vert	22980.000	PK	42.8	39.7	-0.5	32.3	-	49.7	73.9	24.2	Floor noise
Vert	3830.000	AV	39.6	28.9	7.0	32.0	1.5	45.0	53.9	8.9	
Vert	11490.000	AV	32.4	39.1	-1.6	33.4	-	36.5	53.9	17.4	Floor noise
Vert	17235.000	AV	33.6	42.2	0.2	32.7	-	43.3	53.9	10.6	Floor noise
Vert	22980.000	AV	34.0	39.7	-0.5	32.3	-	40.9	53.9	13.0	Floor noise

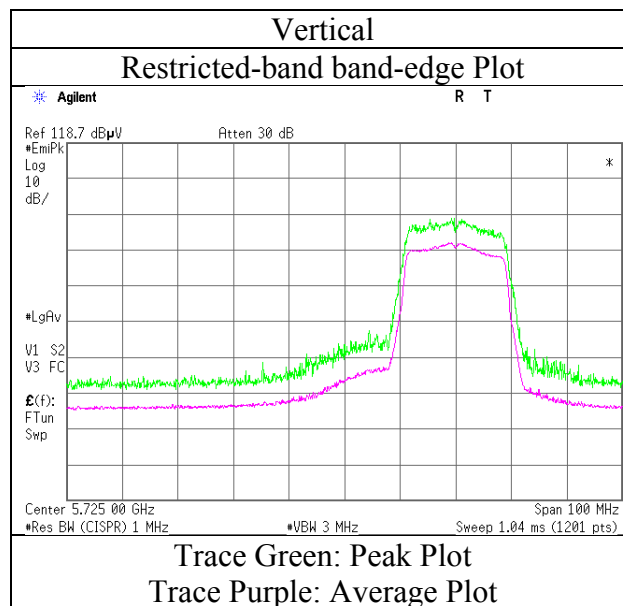
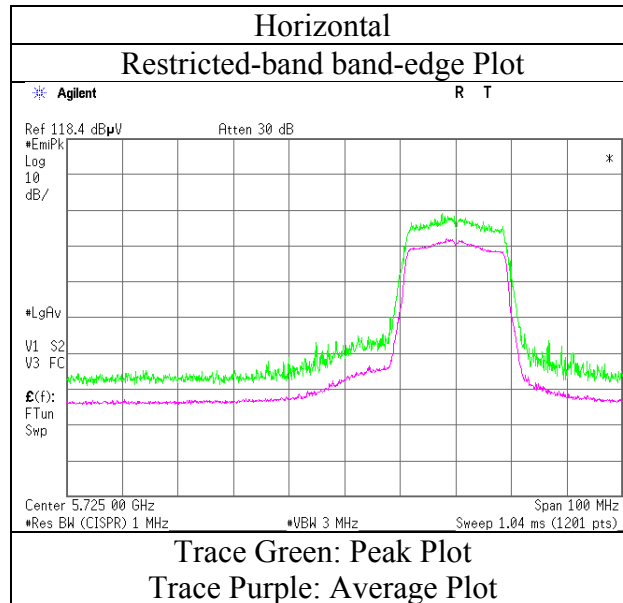
Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier) + Duty factor

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

Distance factor: 1 GHz - 10 GHz 20log (4.5 m / 3.0 m) = 3.53 dB
 10 GHz - 40 GHz 20log (1.0 m / 3.0 m) = -9.5 dB

Radiated Spurious Emission

Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Report No.	11500824H
Date	November 21, 2016
Temperature / Humidity	24deg. C / 46 % RH
Engineer	Tomoki Matsui
Mode	Tx 11ac-20 5745 MHz



* Final result of restricted band edge was shown in tabular data.

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Radiated Spurious Emission

Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber		
Report No.	11500824H		
Date	November 21, 2016	November 22, 2016	November 23, 2016
Temperature / Humidity	24deg. C / 46 % RH	24deg. C / 42 % RH	25deg. C / 39 % RH
Engineer	Tomoki Matsui	Tomoki Matsui	Tomoki Matsui
	(1 GHz-10 GHz)	(10 GHz-18 GHz)	(Above 18GHz)
Mode	Tx 11ac-20 5785 MHz		

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori	3856.746	PK	45.0	29.0	7.0	32.0	-	49.0	73.9	24.9	
Hori	11570.000	PK	40.5	39.1	-1.6	33.4	-	44.6	73.9	29.3	Floor noise
Hori	17355.000	PK	42.1	42.8	0.3	32.7	-	52.5	73.9	21.4	Floor noise
Hori	23140.000	PK	43.2	39.6	-0.5	32.3	-	50.0	73.9	23.9	Floor noise
Hori	3856.746	AV	38.9	29.0	7.0	32.0	1.5	44.4	53.9	9.5	
Hori	11570.000	AV	32.3	39.1	-1.6	33.4	-	36.4	53.9	17.5	Floor noise
Hori	17355.000	AV	33.0	42.8	0.3	32.7	-	43.4	53.9	10.5	Floor noise
Hori	23140.000	AV	34.4	39.6	-0.5	32.3	-	41.2	53.9	12.7	Floor noise
Vert	3856.746	PK	45.1	29.0	7.0	32.0	-	49.1	73.9	24.8	
Vert	11570.000	PK	40.5	39.1	-1.6	33.4	-	44.6	73.9	29.3	Floor noise
Vert	17355.000	PK	42.1	42.8	0.3	32.7	-	52.5	73.9	21.4	Floor noise
Vert	23140.000	PK	43.2	39.6	-0.5	32.3	-	50.0	73.9	23.9	Floor noise
Vert	3856.746	AV	39.1	29.0	7.0	32.0	1.5	44.6	53.9	9.3	
Vert	11570.000	AV	32.3	39.1	-1.6	33.4	-	36.4	53.9	17.5	Floor noise
Vert	17355.000	AV	33.0	42.8	0.3	32.7	-	43.4	53.9	10.5	Floor noise
Vert	23140.000	AV	34.5	39.6	-0.5	32.3	-	41.3	53.9	12.6	Floor noise

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier) + Duty factor

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

Distance factor: 1 GHz - 10 GHz $20\log(4.5\text{ m} / 3.0\text{ m}) = 3.53\text{ dB}$
 10 GHz - 40 GHz $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.5\text{ dB}$

Radiated Spurious Emission

Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber		
Report No.	11500824H		
Date	November 21, 2016	November 22, 2016	November 23, 2016
Temperature / Humidity	24deg. C / 46 % RH	24deg. C / 42 % RH	25deg. C / 39 % RH
Engineer	Tomoki Matsui	Tomoki Matsui	Tomoki Matsui
	(1 GHz-10 GHz)	(10 GHz-18 GHz)	(Above 18GHz)
Mode	Tx 11ac-20 5825 MHz		

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori	3883.372	PK	45.6	29.0	7.0	32.0	-	49.6	73.9	24.3	
Hori	5850.000	PK	55.2	31.6	7.8	31.8	-	62.8	122.2	59.4	
Hori	5855.000	PK	53.6	31.6	7.8	31.8	-	61.2	110.8	49.6	
Hori	5875.000	PK	44.8	31.6	7.8	31.8	-	52.4	105.2	52.8	
Hori	5925.000	PK	40.6	31.6	7.8	31.8	-	48.2	68.2	20.0	
Hori	11650.000	PK	41.2	39.0	-1.4	33.4	-	45.4	73.9	28.5	Floor noise
Hori	17475.000	PK	42.0	43.5	0.4	32.7	-	53.2	73.9	20.7	Floor noise
Hori	23300.000	PK	43.1	39.5	-0.5	32.2	-	49.9	73.9	24.0	Floor noise
Hori	3883.372	AV	38.7	29.0	7.0	32.0	1.5	44.2	53.9	9.7	
Hori	11650.000	AV	33.2	39.0	-1.4	33.4	-	37.4	53.9	16.5	Floor noise
Hori	17475.000	AV	33.0	43.5	0.4	32.7	-	44.2	53.9	9.7	Floor noise
Hori	23300.000	AV	34.7	39.5	-0.5	32.2	-	41.5	53.9	12.4	Floor noise
Vert	3883.372	PK	45.1	29.0	7.0	32.0	-	49.1	73.9	24.8	
Vert	5850.000	PK	55.8	31.6	7.8	31.8	-	63.4	122.2	58.8	
Vert	5855.000	PK	54.0	31.6	7.8	31.8	-	61.6	110.8	49.2	
Vert	5875.000	PK	43.3	31.6	7.8	31.8	-	50.9	105.2	54.3	
Vert	5925.000	PK	39.7	31.6	7.8	31.8	-	47.3	68.2	20.9	
Vert	11650.000	PK	41.2	39.0	-1.4	33.4	-	45.4	73.9	28.5	Floor noise
Vert	17475.000	PK	42.0	43.5	0.4	32.7	-	53.2	73.9	20.7	Floor noise
Vert	23300.000	PK	43.1	39.5	-0.5	32.2	-	49.9	73.9	24.0	Floor noise
Vert	3883.372	AV	38.6	29.0	7.0	32.0	1.5	44.1	53.9	9.8	
Vert	11650.000	AV	33.2	39.0	-1.4	33.4	-	37.4	53.9	16.5	Floor noise
Vert	17475.000	AV	33.1	43.5	0.4	32.7	-	44.3	53.9	9.6	Floor noise
Vert	23300.000	AV	34.7	39.5	-0.5	32.2	-	41.5	53.9	12.4	Floor noise

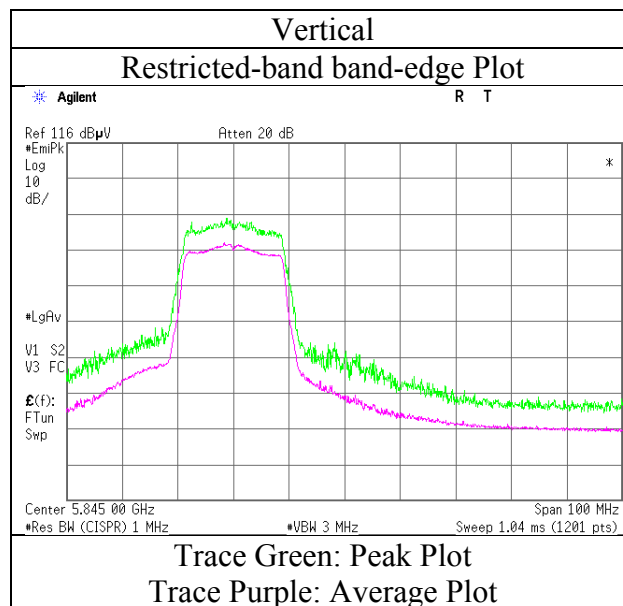
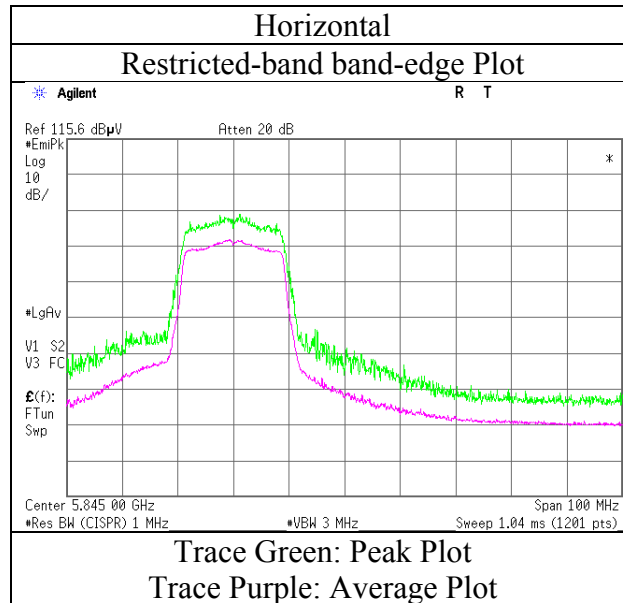
Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier) + Duty factor

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

Distance factor: 1 GHz - 10 GHz $20\log(4.5\text{ m} / 3.0\text{ m}) = 3.53\text{ dB}$
 10 GHz - 40 GHz $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.5\text{ dB}$

Radiated Spurious Emission

Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Report No.	11500824H
Date	November 21, 2016
Temperature / Humidity	24deg. C / 46 % RH
Engineer	Tomoki Matsui
Mode	Tx 11ac-20 5825 MHz



* Final result of restricted band edge was shown in tabular data.

Radiated Spurious Emission

Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber		
Report No.	11500824H		
Date	November 22, 2016	November 22, 2016	November 23, 2016
Temperature / Humidity	24deg. C / 49 % RH	24deg. C / 42 % RH	25deg. C / 39 % RH
Engineer	Ryota Yamanaka	Tomoki Matsui	Tomoki Matsui
	(1 GHz-10 GHz)	(10 GHz-18 GHz)	(Above 18GHz)
Mode	Tx 11ac-40 5310 MHz		

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori	5350.000	PK	55.4	31.3	7.6	31.8	-	62.5	73.9	11.4	
Hori	10620.000	PK	41.7	39.1	-2.0	33.5	-	45.3	73.9	28.6	Floor noise
Hori	15930.000	PK	41.4	38.1	0.6	32.9	-	47.2	73.9	26.7	Floor noise
Hori	21240.000	PK	43.3	38.2	-1.0	33.0	-	47.5	73.9	26.4	Floor noise
Hori	5350.000	AV	43.0	31.3	7.6	31.8	1.4	51.5	53.9	2.4	*1)
Hori	10620.000	AV	32.8	39.1	-2.0	33.5	-	36.4	53.9	17.5	Floor noise
Hori	15930.000	AV	33.3	38.1	0.6	32.9	-	39.1	53.9	14.8	Floor noise
Hori	21240.000	AV	34.3	38.2	-1.0	33.0	-	38.5	53.9	15.4	Floor noise
Vert	5350.000	PK	55.5	31.3	7.6	31.8	-	62.6	73.9	11.3	
Vert	10620.000	PK	41.7	39.1	-2.0	33.5	-	45.3	73.9	28.6	Floor noise
Vert	15930.000	PK	41.4	38.1	0.6	32.9	-	47.2	73.9	26.7	Floor noise
Vert	21240.000	PK	43.3	38.2	-1.0	33.0	-	47.5	73.9	26.4	Floor noise
Vert	5350.000	AV	43.6	31.3	7.6	31.8	1.4	52.1	53.9	1.8	*1)
Vert	10620.000	AV	32.7	39.1	-2.0	33.5	-	36.3	53.9	17.6	Floor noise
Vert	15930.000	AV	33.3	38.1	0.6	32.9	-	39.1	53.9	14.8	Floor noise
Vert	21240.000	AV	34.3	38.2	-1.0	33.0	-	38.5	53.9	15.4	Floor noise

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier) + Duty factor

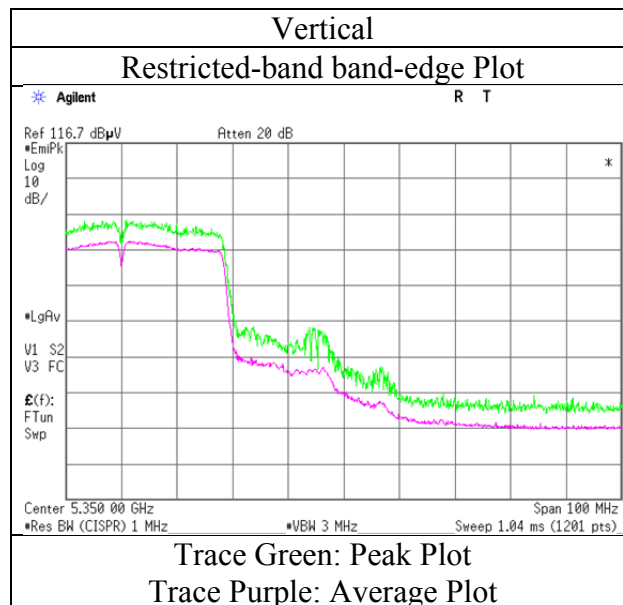
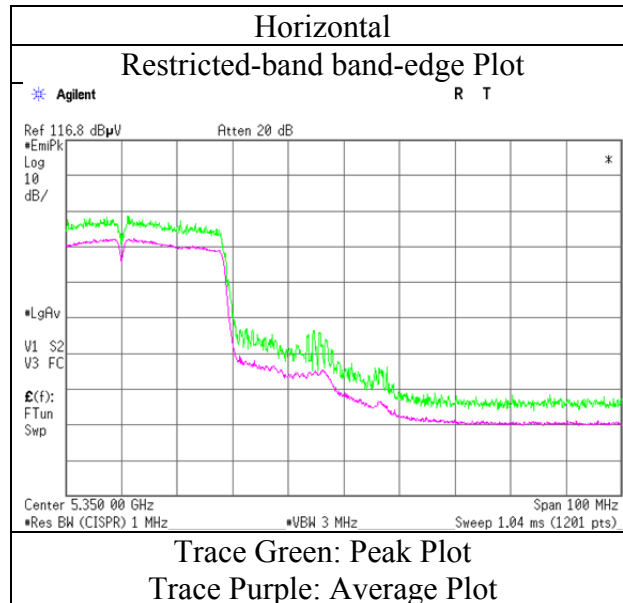
*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

Distance factor: 1 GHz - 10 GHz 20log (4.5 m / 3.0 m) = 3.53 dB
 10 GHz - 40 GHz 20log (1.0 m / 3.0 m) = -9.5 dB

*1) Not Out of Band emission(Leakage Power)

Radiated Spurious Emission

Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Report No.	11500824H
Date	November 22, 2016
Temperature / Humidity	24deg. C / 49 % RH
Engineer	Ryota Yamanaka
	(1 GHz-10 GHz)
Mode	Tx 11ac-40 5310 MHz



* Final result of restricted band edge was shown in tabular data.

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Radiated Spurious Emission

Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber		
Report No.	11500824H		
Date	November 22, 2016	November 22, 2016	November 23, 2016
Temperature / Humidity	24deg. C / 49 % RH	24deg. C / 42 % RH	25deg. C / 39 % RH
Engineer	Ryota Yamanaka	Tomoki Matsui	Tomoki Matsui
	(1 GHz-10 GHz)	(10 GHz-18 GHz)	(Above 18GHz)
Mode	Tx 11ac-40 5510 MHz		

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori	3673.370	PK	45.0	28.7	6.9	32.1	-	48.5	73.9	25.4	
Hori	5460.000	PK	54.6	31.2	7.7	31.8	-	61.7	73.9	12.2	
Hori	5470.000	PK	56.1	31.2	7.7	31.8	-	63.2	68.2	5.0	
Hori	11020.000	PK	42.8	39.9	-2.0	33.6	-	47.1	73.9	26.8	Floor noise
Hori	16530.000	PK	41.5	39.5	0.3	32.8	-	48.5	73.9	25.4	Floor noise
Hori	22040.000	PK	43.0	38.0	-0.8	32.6	-	47.6	73.9	26.3	Floor noise
Hori	3673.370	AV	38.8	28.7	6.9	32.1	1.4	43.7	53.9	10.2	
Hori	5460.000	AV	40.3	31.2	7.7	31.8	1.4	48.8	53.9	5.1	*1)
Hori	11020.000	AV	33.1	39.9	-2.0	33.6	-	37.4	53.9	16.5	Floor noise
Hori	16530.000	AV	33.3	39.5	0.3	32.8	-	40.3	53.9	13.6	Floor noise
Hori	22040.000	AV	35.2	38.0	-0.8	32.6	-	39.8	53.9	14.1	Floor noise
Vert	3673.370	PK	45.5	28.7	6.9	32.1	-	49.0	73.9	24.9	
Vert	5460.000	PK	49.4	31.2	7.7	31.8	-	56.5	73.9	17.4	
Vert	5470.000	PK	56.2	31.2	7.7	31.8	-	63.3	68.2	4.9	
Vert	11020.000	PK	42.8	39.9	-2.0	33.6	-	47.1	73.9	26.8	Floor noise
Vert	16530.000	PK	41.5	39.5	0.3	32.8	-	48.5	73.9	25.4	Floor noise
Vert	22040.000	PK	43.0	38.0	-0.8	32.6	-	47.6	73.9	26.3	Floor noise
Vert	3673.370	AV	39.0	28.7	6.9	32.1	1.4	43.9	53.9	10.0	
Vert	5460.000	AV	38.3	31.2	7.7	31.8	1.4	46.8	53.9	7.1	*1)
Vert	11020.000	AV	33.2	39.9	-2.0	33.6	-	37.5	53.9	16.4	Floor noise
Vert	16530.000	AV	33.3	39.5	0.3	32.8	-	40.3	53.9	13.6	Floor noise
Vert	22040.000	AV	35.1	38.0	-0.8	32.6	-	39.7	53.9	14.2	Floor noise

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier) + Duty factor

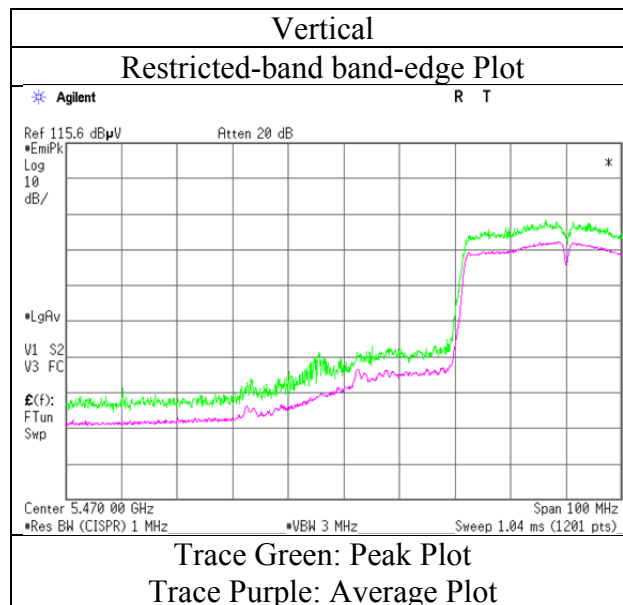
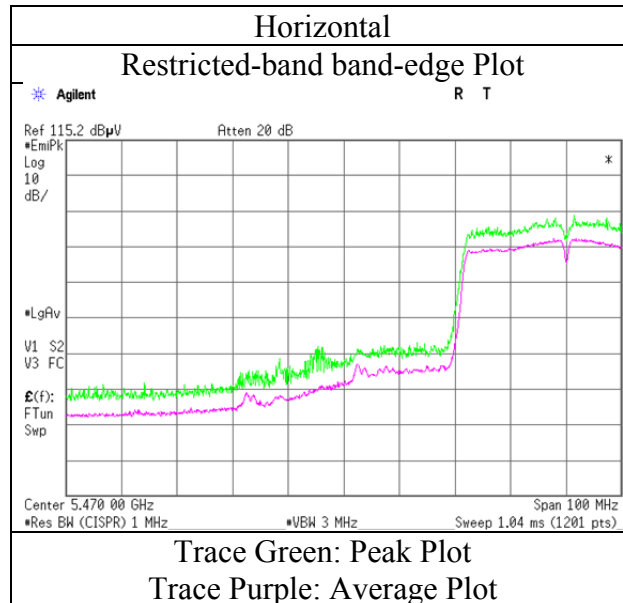
*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

Distance factor: 1 GHz - 10 GHz 20log (4.5 m / 3.0 m) = 3.53 dB
 10 GHz - 40 GHz 20log (1.0 m / 3.0 m) = -9.5 dB

*1) Not Out of Band emission(Leakage Power)

Radiated Spurious Emission

Test place : Ise EMC Lab. No.3 Semi Anechoic Chamber
Report No. : 11500824H
Date : November 22, 2016
Temperature / Humidity : 24deg. C / 49 % RH
Engineer : Ryota Yamanaka
(1 GHz-10 GHz)
Mode : Tx 11ac-40 5510 MHz



* Final result of restricted band edge was shown in tabular data.

Radiated Spurious Emission

Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber		
Report No.	11500824H		
Date	November 22, 2016	November 22, 2016	November 23, 2016
Temperature / Humidity	24deg. C / 49 % RH	24deg. C / 42 % RH	25deg. C / 39 % RH
Engineer	Ryota Yamanaka	Tomoki Matsui	Tomoki Matsui
	(1 GHz-10 GHz)	(10 GHz-18 GHz)	(Above 18GHz)
Mode	Tx 11ac-40 5550 MHz		

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori	3700.000	PK	45.6	28.7	6.9	32.1	-	49.1	73.9	24.8	
Hori	11100.000	PK	41.5	39.8	-1.9	33.5	-	45.9	73.9	28.0	Floor noise
Hori	16650.000	PK	41.7	39.8	0.3	32.8	-	49.0	73.9	24.9	Floor noise
Hori	22200.000	PK	43.7	38.3	-0.7	32.6	-	48.7	73.9	25.2	Floor noise
Hori	3700.000	AV	39.6	28.7	6.9	32.1	1.4	44.5	53.9	9.4	
Hori	11100.000	AV	33.2	39.8	-1.9	33.5	-	37.6	53.9	16.3	Floor noise
Hori	16650.000	AV	32.9	39.8	0.3	32.8	-	40.2	53.9	13.7	Floor noise
Hori	22200.000	AV	34.8	38.3	-0.7	32.6	-	39.8	53.9	14.1	Floor noise
Vert	3700.000	PK	45.3	28.7	6.9	32.1	-	48.8	73.9	25.1	
Vert	11100.000	PK	41.5	39.8	-1.9	33.5	-	45.9	73.9	28.0	Floor noise
Vert	16650.000	PK	41.7	39.8	0.3	32.8	-	49.0	73.9	24.9	Floor noise
Vert	22200.000	PK	43.7	38.3	-0.7	32.6	-	48.7	73.9	25.2	Floor noise
Vert	3700.000	AV	39.2	28.7	6.9	32.1	1.4	44.1	53.9	9.8	
Vert	11100.000	AV	33.2	39.8	-1.9	33.5	-	37.6	53.9	16.3	Floor noise
Vert	16650.000	AV	32.9	39.8	0.3	32.8	-	40.2	53.9	13.7	Floor noise
Vert	22200.000	AV	34.7	38.3	-0.7	32.6	-	39.7	53.9	14.2	Floor noise

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier) + Duty factor

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

Distance factor: 1 GHz - 10 GHz $20\log(4.5\text{ m} / 3.0\text{ m}) = 3.53\text{ dB}$
 10 GHz - 40 GHz $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.5\text{ dB}$

Radiated Spurious Emission

Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber		
Report No.	11500824H		
Date	November 22, 2016	November 22, 2016	November 23, 2016
Temperature / Humidity	24deg. C / 49 % RH	24deg. C / 42 % RH	25deg. C / 39 % RH
Engineer	Ryota Yamanaka	Tomoki Matsui	Tomoki Matsui
	(1 GHz-10 GHz)	(10 GHz-18 GHz)	(Above 18GHz)
Mode	Tx 11ac-40 5670 MHz		

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori	3780.000	PK	46.6	28.9	7.0	32.0	-	50.5	73.9	23.4	
Hori	5725.000	PK	47.1	31.4	7.8	31.8	-	54.5	68.2	13.7	
Hori	11340.000	PK	41.8	39.4	-1.7	33.5	-	46.0	73.9	27.9	Floor noise
Hori	17010.000	PK	41.6	40.9	0.0	32.8	-	49.7	73.9	24.2	Floor noise
Hori	22680.000	PK	43.2	39.2	-0.6	32.4	-	49.4	73.9	24.5	Floor noise
Hori	3780.000	AV	40.8	28.9	7.0	32.0	1.4	46.1	53.9	7.8	
Hori	11340.000	AV	32.7	39.4	-1.7	33.5	-	36.9	53.9	17.0	Floor noise
Hori	17010.000	AV	33.6	40.9	0.0	32.8	-	41.7	53.9	12.2	Floor noise
Hori	22680.000	AV	34.8	39.2	-0.6	32.4	-	41.0	53.9	12.9	Floor noise
Vert	3780.000	PK	45.8	28.9	7.0	32.0	-	49.7	73.9	24.2	
Vert	5725.000	PK	46.9	31.4	7.8	31.8	-	54.3	68.2	13.9	
Vert	11340.000	PK	41.8	39.4	-1.7	33.5	-	46.0	73.9	27.9	Floor noise
Vert	17010.000	PK	41.6	40.9	0.0	32.8	-	49.7	73.9	24.2	Floor noise
Vert	22680.000	PK	43.2	39.2	-0.6	32.4	-	49.4	73.9	24.5	Floor noise
Vert	3780.000	AV	40.2	28.9	7.0	32.0	1.4	45.5	53.9	8.4	
Vert	11340.000	AV	32.7	39.4	-1.7	33.5	-	36.9	53.9	17.0	Floor noise
Vert	17010.000	AV	33.6	40.9	0.0	32.8	-	41.7	53.9	12.2	Floor noise
Vert	22680.000	AV	34.8	39.2	-0.6	32.4	-	41.0	53.9	12.9	Floor noise

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier) + Duty factor

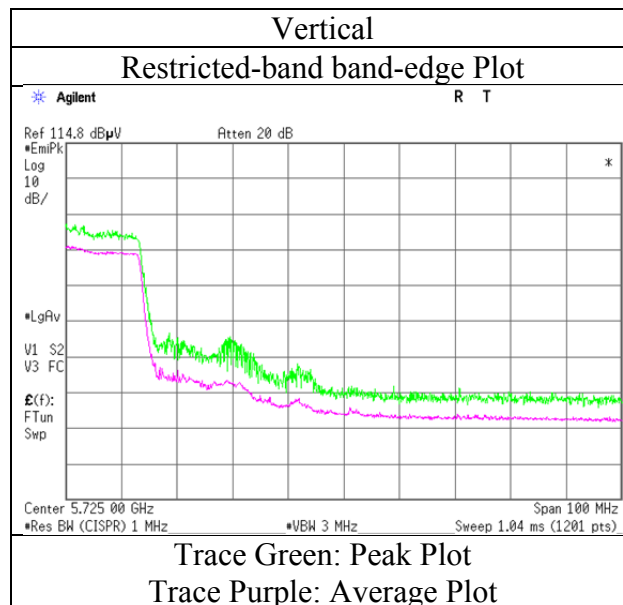
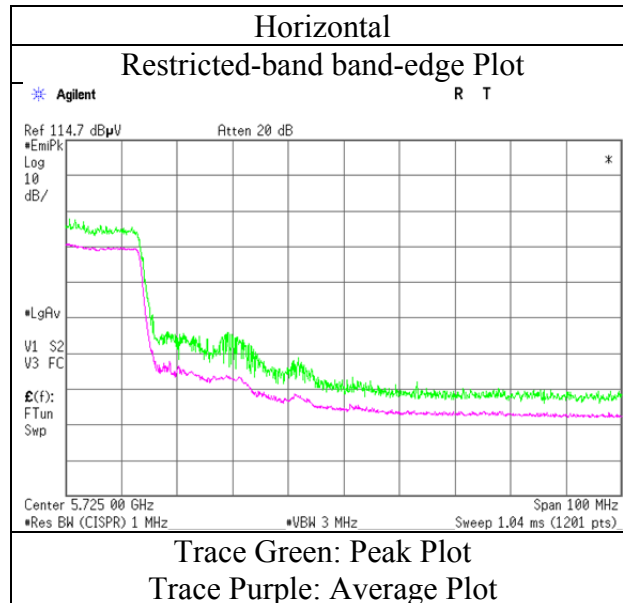
*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

Distance factor: 1 GHz - 10 GHz $20\log(4.5\text{ m} / 3.0\text{ m}) = 3.53\text{ dB}$
 10 GHz - 40 GHz $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.5\text{ dB}$

*1) Not Out of Band emission(Leakage Power)

Radiated Spurious Emission

Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Report No.	11500824H
Date	November 22, 2016
Temperature / Humidity	24deg. C / 49 % RH
Engineer	Ryota Yamanaka
	(1 GHz-10 GHz)
Mode	Tx 11ac-40 5670 MHz



* Final result of restricted band edge was shown in tabular data.

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Radiated Spurious Emission

Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber		
Report No.	11500824H		
Date	November 22, 2016	November 22, 2016	November 23, 2016
Temperature / Humidity	24deg. C / 49 % RH	24deg. C / 42 % RH	25deg. C / 39 % RH
Engineer	Ryota Yamanaka	Tomoki Matsui	Tomoki Matsui
	(1 GHz-10 GHz)	(10 GHz-18 GHz)	(Above 18GHz)
Mode	Tx 11ac-40 5710 MHz		

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori	3806.690	PK	45.8	28.9	7.0	32.0	-	49.7	73.9	24.2	
Hori	11420.000	PK	40.8	39.3	-1.6	33.4	-	45.1	73.9	28.8	Floor noise
Hori	17130.000	PK	41.5	41.6	0.0	32.7	-	50.4	73.9	23.5	Floor noise
Hori	22840.000	PK	43.8	39.5	-0.6	32.4	-	50.3	73.9	23.6	Floor noise
Hori	3806.690	AV	40.4	28.9	7.0	32.0	1.4	45.7	53.9	8.2	
Hori	11420.000	AV	32.4	39.3	-1.6	33.4	-	36.7	53.9	17.2	Floor noise
Hori	17130.000	AV	33.3	41.6	0.0	32.7	-	42.2	53.9	11.7	Floor noise
Hori	22840.000	AV	34.5	39.5	-0.6	32.4	-	41.0	53.9	12.9	Floor noise
Vert	3806.690	PK	45.5	28.9	7.0	32.0	-	49.4	73.9	24.5	
Vert	11420.000	PK	40.8	39.3	-1.6	33.4	-	45.1	73.9	28.8	Floor noise
Vert	17130.000	PK	41.5	41.6	0.0	32.7	-	50.4	73.9	23.5	Floor noise
Vert	22840.000	PK	43.8	39.5	-0.6	32.4	-	50.3	73.9	23.6	Floor noise
Vert	3806.690	AV	40.0	28.9	7.0	32.0	1.4	45.3	53.9	8.6	
Vert	11420.000	AV	32.3	39.3	-1.6	33.4	-	36.6	53.9	17.3	Floor noise
Vert	17130.000	AV	33.3	41.6	0.0	32.7	-	42.2	53.9	11.7	Floor noise
Vert	22840.000	AV	34.5	39.5	-0.6	32.4	-	41.0	53.9	12.9	Floor noise

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier) + Duty factor

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

Distance factor: 1 GHz - 10 GHz $20\log(4.5\text{ m} / 3.0\text{ m}) = 3.53\text{ dB}$
 10 GHz - 40 GHz $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.5\text{ dB}$

Radiated Spurious Emission

Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber		
Report No.	11500824H		
Date	November 22, 2016	November 22, 2016	November 23, 2016
Temperature / Humidity	24deg. C / 49 % RH	24deg. C / 42 % RH	25deg. C / 39 % RH
Engineer	Ryota Yamanaka	Tomoki Matsui	Tomoki Matsui
	(1 GHz-10 GHz)	(10 GHz-18 GHz)	(Above 18GHz)
Mode	Tx 11ac-40 5755 MHz		

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori	3836.717	PK	45.3	28.9	7.0	32.0	-	49.2	73.9	24.7	
Hori	5650.000	PK	40.9	31.3	7.8	31.8	-	48.2	68.2	20.0	
Hori	5700.000	PK	47.0	31.4	7.8	31.8	-	54.4	105.2	50.8	
Hori	5720.000	PK	55.7	31.4	7.8	31.8	-	63.1	110.8	47.7	
Hori	5725.000	PK	57.8	31.4	7.8	31.8	-	65.2	122.2	57.0	
Hori	11510.000	PK	41.7	39.1	-1.6	33.4	-	45.8	73.9	28.1	Floor noise
Hori	17265.000	PK	42.2	42.3	0.3	32.7	-	52.1	73.9	21.8	Floor noise
Hori	23020.000	PK	43.4	39.7	-0.5	32.3	-	50.3	73.9	23.6	Floor noise
Hori	3836.717	AV	40.2	28.9	7.0	32.0	1.4	45.5	53.9	8.4	
Hori	11510.000	AV	32.6	39.1	-1.6	33.4	-	36.7	53.9	17.2	Floor noise
Hori	17265.000	AV	33.7	42.3	0.3	32.7	-	43.6	53.9	10.3	Floor noise
Hori	23020.000	AV	34.5	39.7	-0.5	32.3	-	41.4	53.9	12.5	Floor noise
Vert	3836.717	PK	45.5	28.9	7.0	32.0	-	49.4	73.9	24.5	
Vert	5650.000	PK	41.2	31.3	7.8	31.8	-	48.5	68.2	19.7	
Vert	5700.000	PK	46.6	31.4	7.8	31.8	-	54.0	105.2	51.2	
Vert	5720.000	PK	55.7	31.4	7.8	31.8	-	63.1	110.8	47.7	
Vert	5725.000	PK	58.1	31.4	7.8	31.8	-	65.5	122.2	56.7	
Vert	11510.000	PK	41.7	39.1	-1.6	33.4	-	45.8	73.9	28.1	Floor noise
Vert	17265.000	PK	42.2	42.3	0.3	32.7	-	52.1	73.9	21.8	Floor noise
Vert	23020.000	PK	43.4	39.7	-0.5	32.3	-	50.3	73.9	23.6	Floor noise
Vert	3836.717	AV	40.2	28.9	7.0	32.0	1.4	45.5	53.9	8.4	
Vert	11510.000	AV	32.6	39.1	-1.6	33.4	-	36.7	53.9	17.2	Floor noise
Vert	17265.000	AV	33.7	42.3	0.3	32.7	-	43.6	53.9	10.3	Floor noise
Vert	23020.000	AV	34.5	39.7	-0.5	32.3	-	41.4	53.9	12.5	Floor noise

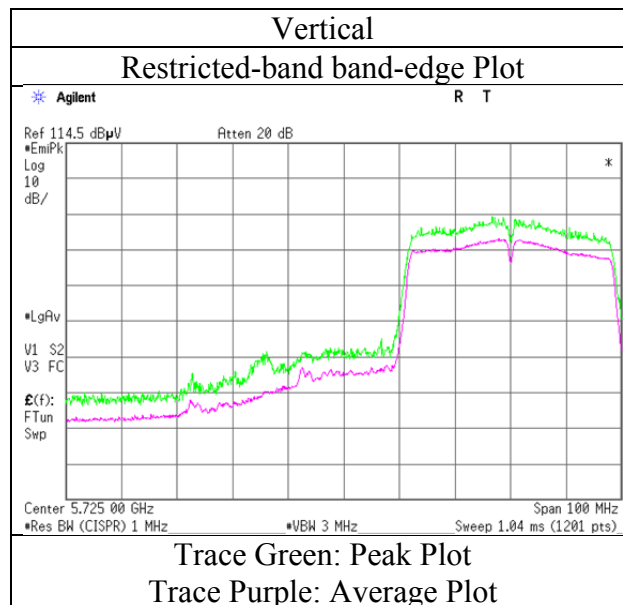
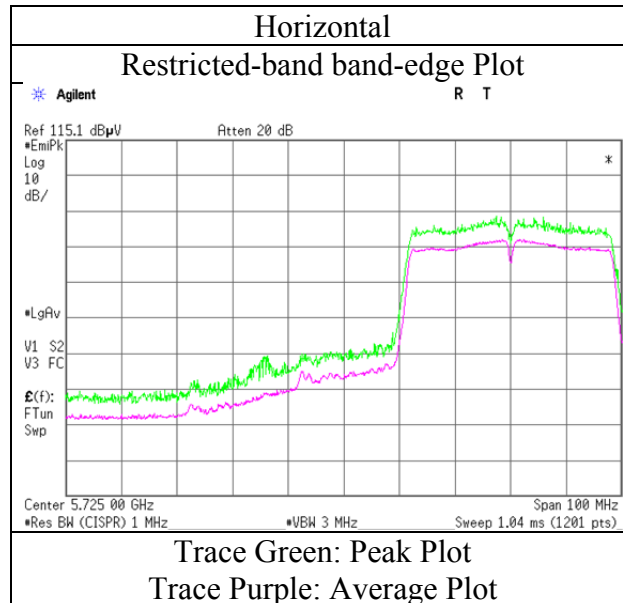
Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier) + Duty factor

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

Distance factor: 1 GHz - 10 GHz 20log (4.5 m / 3.0 m) = 3.53 dB
 10 GHz - 40 GHz 20log (1.0 m / 3.0 m) = -9.5 dB

Radiated Spurious Emission

Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Report No.	11500824H
Date	November 22, 2016
Temperature / Humidity	24deg. C / 49 % RH
Engineer	Ryota Yamanaka
	(1 GHz-10 GHz)
Mode	Tx 11ac-40 5755 MHz



* Final result of restricted band edge was shown in tabular data.

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Radiated Spurious Emission

Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber		
Report No.	11500824H		
Date	November 22, 2016	November 22, 2016	November 23, 2016
Temperature / Humidity	24deg. C / 49 % RH	24deg. C / 42 % RH	25deg. C / 39 % RH
Engineer	Ryota Yamanaka	Tomoki Matsui	Tomoki Matsui
	(1 GHz-10 GHz)	(10 GHz-18 GHz)	(Above 18GHz)
Mode	Tx 11ac-40 5795 MHz		

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori	3863.377	PK	45.5	29.0	7.0	32.0	-	49.5	73.9	24.4	
Hori	5850.000	PK	47.0	31.6	7.8	31.8	-	54.6	122.2	67.6	
Hori	5855.000	PK	46.8	31.6	7.8	31.8	-	54.4	110.8	56.4	
Hori	5875.000	PK	40.9	31.6	7.8	31.8	-	48.5	105.2	56.7	
Hori	5925.000	PK	39.1	31.6	7.8	31.8	-	46.7	68.2	21.5	
Hori	11590.000	PK	41.1	39.1	-1.6	33.4	-	45.2	73.9	28.7	Floor noise
Hori	17385.000	PK	41.5	43.0	0.3	32.7	-	52.1	73.9	21.8	Floor noise
Hori	23180.000	PK	43.2	39.6	-0.5	32.3	-	50.0	73.9	23.9	Floor noise
Hori	3863.377	AV	39.9	29.0	7.0	32.0	1.4	45.3	53.9	8.6	
Hori	11590.000	AV	32.6	39.1	-1.6	33.4	-	36.7	53.9	17.2	Floor noise
Hori	17385.000	AV	33.3	43.0	0.3	32.7	-	43.9	53.9	10.0	Floor noise
Hori	23180.000	AV	34.6	39.6	-0.5	32.3	-	41.4	53.9	12.5	Floor noise
Vert	3863.377	PK	45.3	29.0	7.0	32.0	-	49.3	73.9	24.6	
Vert	5850.000	PK	45.8	31.6	7.8	31.8	-	53.4	122.2	68.8	
Vert	5855.000	PK	44.4	31.6	7.8	31.8	-	52.0	110.8	58.8	
Vert	5875.000	PK	42.0	31.6	7.8	31.8	-	49.6	105.2	55.6	
Vert	5925.000	PK	40.7	31.6	7.8	31.8	-	48.3	68.2	19.9	
Vert	11590.000	PK	41.1	39.1	-1.6	33.4	-	45.2	73.9	28.7	Floor noise
Vert	17385.000	PK	41.5	43.0	0.3	32.7	-	52.1	73.9	21.8	Floor noise
Vert	23180.000	PK	43.2	39.6	-0.5	32.3	-	50.0	73.9	23.9	Floor noise
Vert	3863.377	AV	39.7	29.0	7.0	32.0	1.4	45.1	53.9	8.8	
Vert	11590.000	AV	32.6	39.1	-1.6	33.4	-	36.7	53.9	17.2	Floor noise
Vert	17385.000	AV	33.3	43.0	0.3	32.7	-	43.9	53.9	10.0	Floor noise
Vert	23180.000	AV	34.7	39.6	-0.5	32.3	-	41.5	53.9	12.4	Floor noise

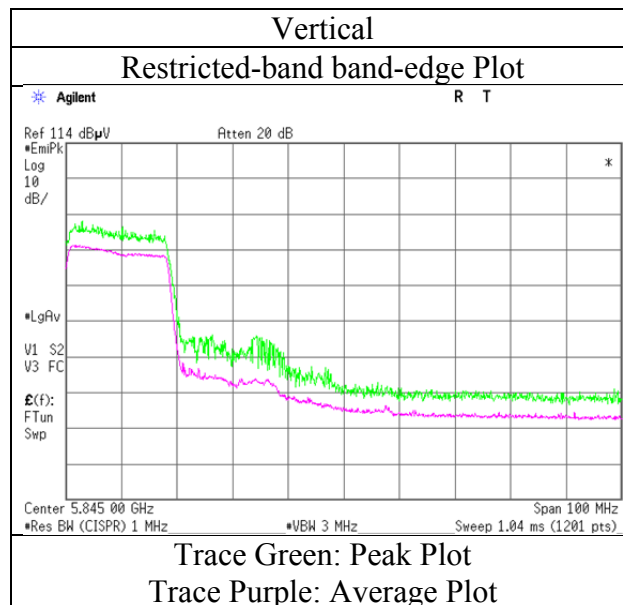
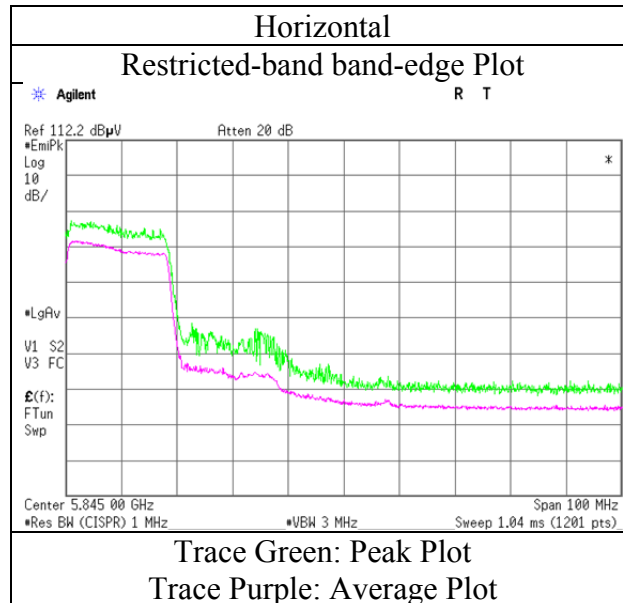
Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier) + Duty factor

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

Distance factor: 1 GHz - 10 GHz 20log (4.5 m / 3.0 m) = 3.53 dB
 10 GHz - 40 GHz 20log (1.0 m / 3.0 m) = -9.5 dB

Radiated Spurious Emission

Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Report No.	11500824H
Date	November 22, 2016
Temperature / Humidity	24deg. C / 49 % RH
Engineer	Ryota Yamanaka
	(1 GHz-10 GHz)
Mode	Tx 11ac-40 5795 MHz



* Final result of restricted band edge was shown in tabular data.

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Radiated Spurious Emission

Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber		
Report No.	11500824H		
Date	November 22, 2016	November 22, 2016	November 23, 2016
Temperature / Humidity	24deg. C / 49 % RH	24deg. C / 42 % RH	25deg. C / 39 % RH
Engineer	Ryota Yamanaka	Tomoki Matsui	Tomoki Matsui
	(1 GHz-10 GHz)	(10 GHz-18 GHz)	(Above 18GHz)
Mode	Tx 11ac-80 5530 MHz		

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori	3686.673	PK	45.4	28.7	6.9	32.1	-	48.9	73.9	25.0	
Hori	5460.000	PK	50.9	31.2	7.7	31.8	-	58.0	73.9	15.9	
Hori	5470.000	PK	52.1	31.2	7.7	31.8	-	59.2	68.2	9.0	
Hori	11060.000	PK	42.2	39.9	-1.9	33.6	-	46.6	73.9	27.3	Floor noise
Hori	16590.000	PK	42.1	39.7	0.3	32.8	-	49.3	73.9	24.6	Floor noise
Hori	22120.000	PK	43.4	38.2	-0.8	32.6	-	48.2	73.9	25.7	Floor noise
Hori	3686.673	AV	39.8	28.7	6.9	32.1	3.1	46.4	53.9	7.5	
Hori	5460.000	AV	34.9	31.2	7.7	31.8	3.1	45.1	53.9	8.8	*1)
Hori	11060.000	AV	33.3	39.9	-1.9	33.6	-	37.7	53.9	16.2	Floor noise
Hori	16590.000	AV	33.1	39.7	0.3	32.8	-	40.3	53.9	13.6	Floor noise
Hori	22120.000	AV	34.4	38.2	-0.8	32.6	-	39.2	53.9	14.7	Floor noise
Vert	3686.673	PK	45.2	28.7	6.9	32.1	-	48.7	73.9	25.2	
Vert	5460.000	PK	47.9	31.2	7.7	31.8	-	55.0	73.9	18.9	
Vert	5470.000	PK	49.8	31.2	7.7	31.8	-	56.9	68.2	11.3	
Vert	11060.000	PK	42.2	39.9	-1.9	33.6	-	46.6	73.9	27.3	Floor noise
Vert	16590.000	PK	42.1	39.7	0.3	32.8	-	49.3	73.9	24.6	Floor noise
Vert	22120.000	PK	43.4	38.2	-0.8	32.6	-	48.2	73.9	25.7	Floor noise
Vert	3686.673	AV	39.4	28.7	6.9	32.1	3.1	46.0	53.9	7.9	
Vert	5460.000	AV	32.6	31.2	7.7	31.8	3.1	42.8	53.9	11.1	*1)
Vert	11060.000	AV	33.3	39.9	-1.9	33.6	-	37.7	53.9	16.2	Floor noise
Vert	16590.000	AV	33.1	39.7	0.3	32.8	-	40.3	53.9	13.6	Floor noise
Vert	22120.000	AV	34.4	38.2	-0.8	32.6	-	39.2	53.9	14.7	Floor noise

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier) + Duty factor

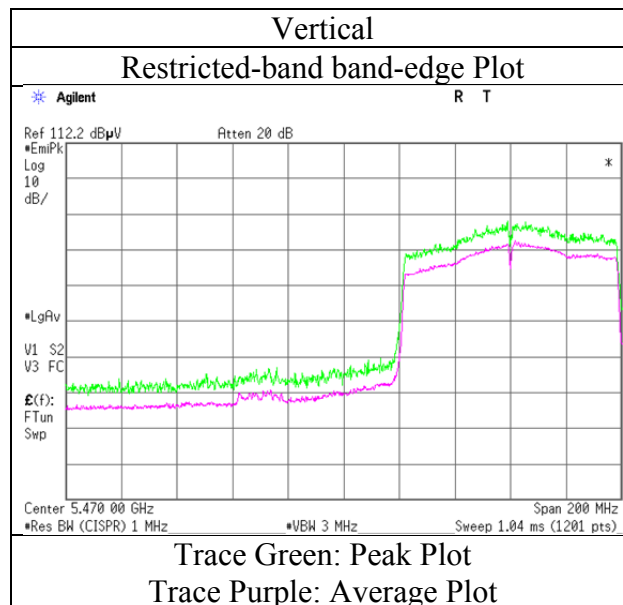
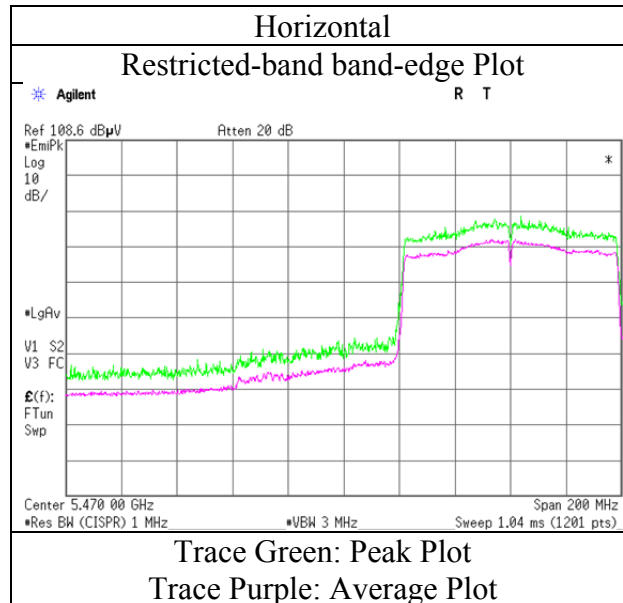
*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

Distance factor: 1 GHz - 10 GHz $20\log(4.5\text{ m} / 3.0\text{ m}) = 3.53\text{ dB}$
 10 GHz - 40 GHz $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.5\text{ dB}$

*1) Not Out of Band emission(Leakage Power)

Radiated Spurious Emission

Test place : Ise EMC Lab. No.3 Semi Anechoic Chamber
Report No. : 11500824H
Date : November 22, 2016
Temperature / Humidity : 24deg. C / 49 % RH
Engineer : Ryota Yamanaka
(1 GHz-10 GHz)
Mode : Tx 11ac-80 5530 MHz



* Final result of restricted band edge was shown in tabular data.

Radiated Spurious Emission

Test place : Ise EMC Lab. No.3 Semi Anechoic Chamber
Report No. : 11500824H
Date : November 22, 2016 November 23, 2016
Temperature / Humidity : 24deg. C / 42 % RH 25deg. C / 39 % RH
Engineer : Tomoki Matsui Tomoki Matsui
(1 GHz-18 GHz) (Above 18GHz)
Mode : Tx 11ac-80 5690MHz

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori	3793.350	PK	45.5	28.9	7.0	32.0	-	49.4	73.9	24.5	
Hori	11380.000	PK	40.7	39.3	-1.7	33.4	-	44.9	73.9	29.0	Floor noise
Hori	17070.000	PK	42.0	41.2	0.0	32.8	-	50.4	73.9	23.5	Floor noise
Hori	22760.000	PK	43.4	39.3	-0.6	32.4	-	49.7	73.9	24.2	Floor noise
Hori	3793.350	AV	38.9	28.9	7.0	32.0	3.1	45.9	53.9	8.0	
Hori	11380.000	AV	32.2	39.3	-1.7	33.4	-	36.4	53.9	17.5	Floor noise
Hori	17070.000	AV	33.7	41.2	0.0	32.8	-	42.1	53.9	11.8	Floor noise
Hori	22760.000	AV	34.7	39.3	-0.6	32.4	-	41.0	53.9	12.9	Floor noise
Vert	3793.350	PK	45.5	28.9	7.0	32.0	-	49.4	73.9	24.5	
Vert	11380.000	PK	40.7	39.3	-1.7	33.4	-	44.9	73.9	29.0	Floor noise
Vert	17070.000	PK	42.0	41.2	0.0	32.8	-	50.4	73.9	23.5	Floor noise
Vert	22760.000	PK	43.4	39.3	-0.6	32.4	-	49.7	73.9	24.2	Floor noise
Vert	3793.350	AV	39.6	28.9	7.0	32.0	3.1	46.6	53.9	7.3	
Vert	11380.000	AV	32.3	39.3	-1.7	33.4	-	36.5	53.9	17.4	Floor noise
Vert	17070.000	AV	33.7	41.2	0.0	32.8	-	42.1	53.9	11.8	Floor noise
Vert	22760.000	AV	34.6	39.3	-0.6	32.4	-	40.9	53.9	13.0	Floor noise

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier) + Duty factor

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

Distance factor: 1 GHz - 10 GHz $20\log(4.5\text{ m} / 3.0\text{ m}) = 3.53\text{ dB}$
 10 GHz - 40 GHz $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.5\text{ dB}$

Radiated Spurious Emission

Test place : Ise EMC Lab. No.3 Semi Anechoic Chamber
Report No. : 11500824H
Date : November 22, 2016 November 23, 2016
Temperature / Humidity : 24deg. C / 42 % RH 25deg. C / 39 % RH
Engineer : Tomoki Matsui Tomoki Matsui
(1 GHz-18 GHz) (Above 18GHz)
Mode : Tx 11ac-80 5775 MHz

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori	3850.017	PK	45.0	29.0	7.0	32.0	-	49.0	73.9	24.9	
Hori	5650.000	PK	42.9	31.3	7.8	31.8	-	50.2	68.2	18.0	
Hori	5700.000	PK	55.7	31.4	7.8	31.8	-	63.1	105.2	42.1	
Hori	5720.000	PK	59.3	31.4	7.8	31.8	-	66.7	110.8	44.1	
Hori	5725.000	PK	59.4	31.4	7.8	31.8	-	66.8	122.2	55.4	
Hori	5850.000	PK	52.1	31.6	7.8	31.8	-	59.7	122.2	62.5	
Hori	5855.000	PK	51.5	31.6	7.8	31.8	-	59.1	110.8	51.7	
Hori	5860.000	PK	49.5	31.6	7.8	31.8	-	57.1	68.2	11.1	
Hori	5875.000	PK	44.6	31.6	7.8	31.8	-	52.2	105.2	53.0	
Hori	5925.000	PK	41.3	31.6	7.8	31.8	-	48.9	68.2	19.3	
Hori	11550.000	PK	41.0	39.1	-1.6	33.4	-	45.1	73.9	28.8	Floor noise
Hori	17325.000	PK	41.9	42.7	0.3	32.7	-	52.2	73.9	21.7	Floor noise
Hori	23100.000	PK	43.2	39.7	-0.5	32.3	-	50.1	73.9	23.8	Floor noise
Hori	3850.017	AV	39.0	29.0	7.0	32.0	3.1	46.1	53.9	7.8	
Hori	11550.000	AV	32.6	39.1	-1.6	33.4	-	36.7	53.9	17.2	Floor noise
Hori	17325.000	AV	33.1	42.7	0.3	32.7	-	43.4	53.9	10.5	Floor noise
Hori	23100.000	AV	34.4	39.7	-0.5	32.3	-	41.3	53.9	12.6	Floor noise
Vert	3850.017	PK	46.3	29.0	7.0	32.0	-	50.3	73.9	23.6	
Vert	5650.000	PK	41.0	31.3	7.8	31.8	-	48.3	68.2	19.9	
Vert	5700.000	PK	53.5	31.4	7.8	31.8	-	60.9	105.2	44.3	
Vert	5720.000	PK	57.3	31.4	7.8	31.8	-	64.7	110.8	46.1	
Vert	5725.000	PK	57.6	31.4	7.8	31.8	-	65.0	122.2	57.2	
Vert	5850.000	PK	50.8	31.6	7.8	31.8	-	58.4	122.2	63.8	
Vert	5855.000	PK	50.5	31.6	7.8	31.8	-	58.1	110.8	52.7	
Vert	5875.000	PK	43.6	31.6	7.8	31.8	-	51.2	105.2	54.0	
Vert	5925.000	PK	40.8	31.6	7.8	31.8	-	48.4	68.2	19.8	
Vert	11550.000	PK	41.0	39.1	-1.6	33.4	-	45.1	73.9	28.8	Floor noise
Vert	17325.000	PK	41.9	42.7	0.3	32.7	-	52.2	73.9	21.7	Floor noise
Vert	23100.000	PK	43.2	39.7	-0.5	32.3	-	50.1	73.9	23.8	Floor noise
Vert	3850.017	AV	39.3	29.0	7.0	32.0	3.1	46.4	53.9	7.5	
Vert	11550.000	AV	32.6	39.1	-1.6	33.4	-	36.7	53.9	17.2	Floor noise
Vert	17325.000	AV	33.1	42.7	0.3	32.7	-	43.4	53.9	10.5	Floor noise
Vert	23100.000	AV	34.4	39.7	-0.5	32.3	-	41.3	53.9	12.6	Floor noise

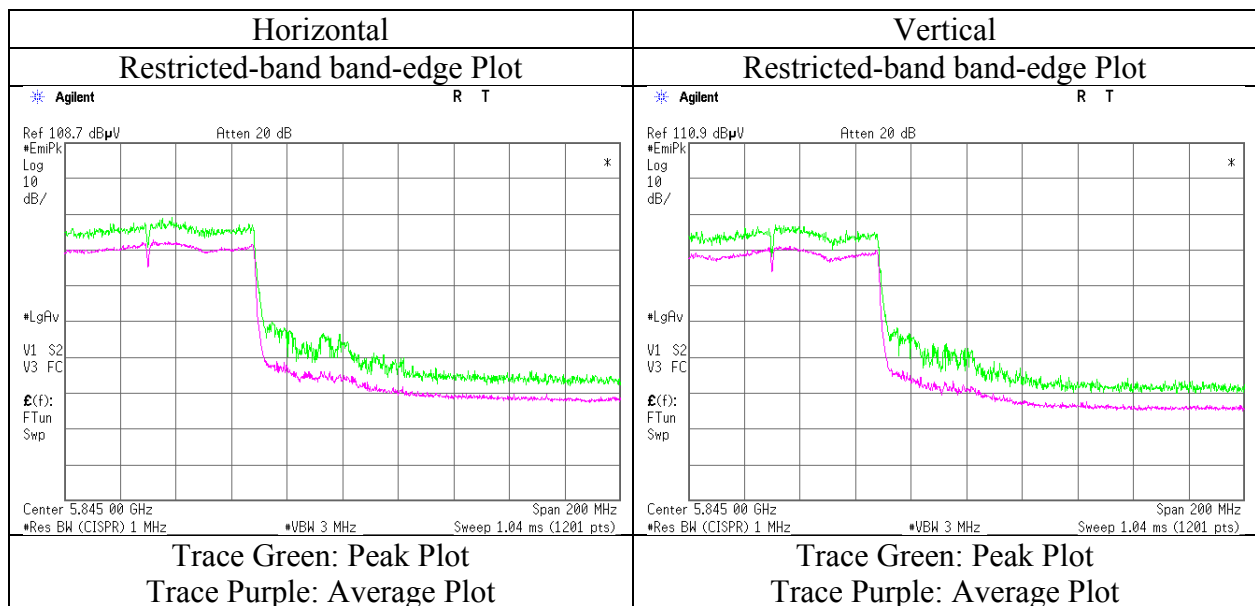
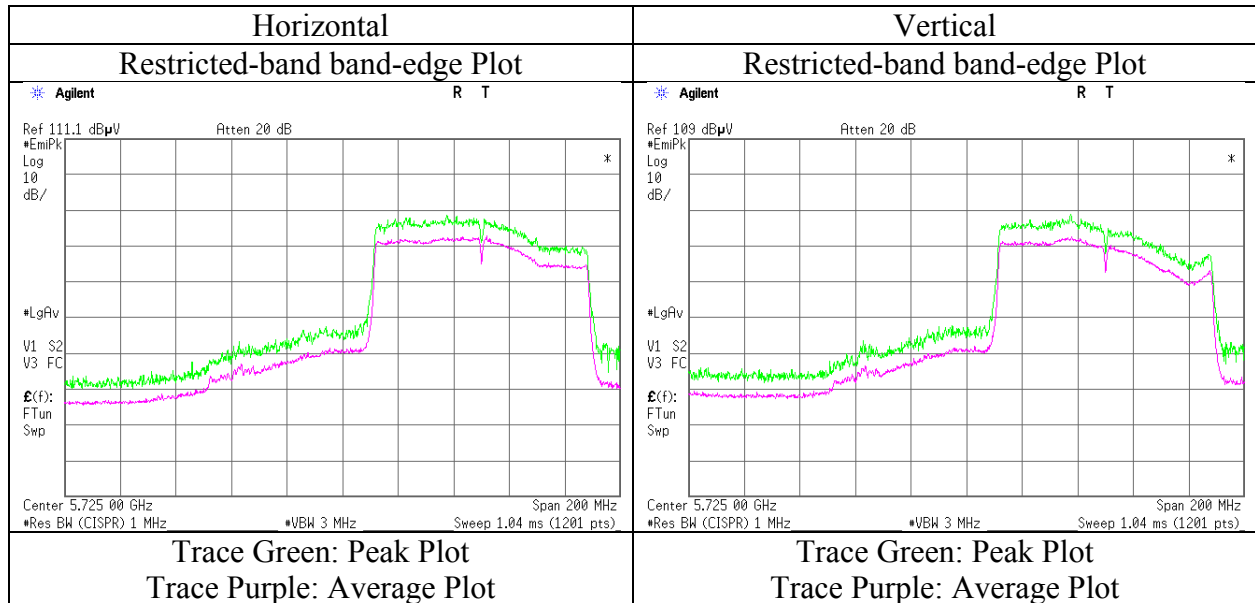
Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier) + Duty factor

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

Distance factor: 1 GHz - 10 GHz $20\log(4.5\text{ m} / 3.0\text{ m}) = 3.53\text{ dB}$
 10 GHz - 40 GHz $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.5\text{ dB}$

Radiated Spurious Emission

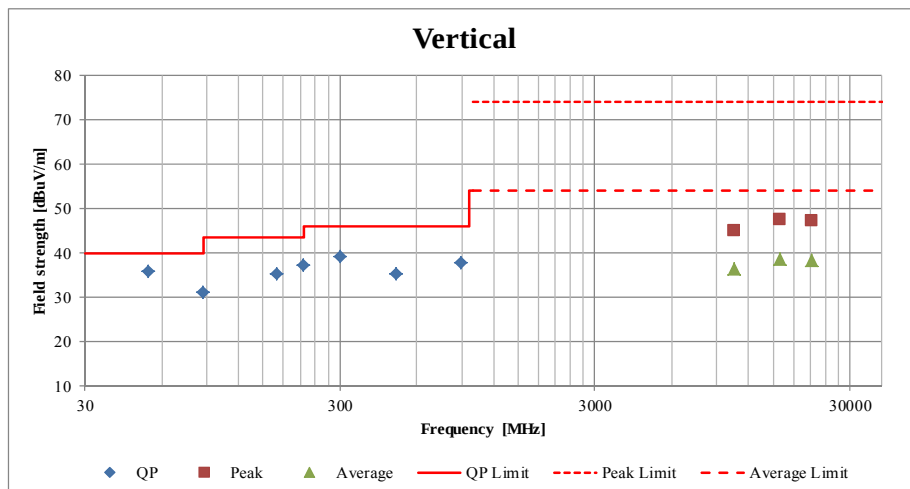
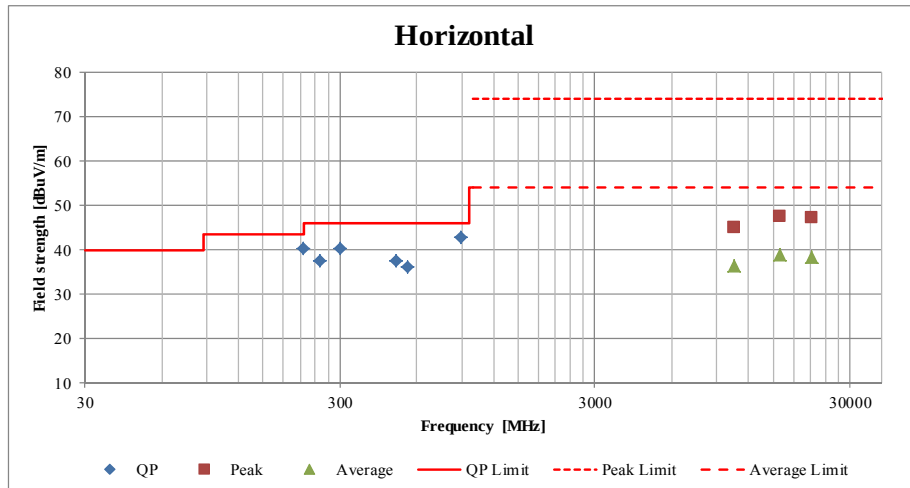
Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Report No.	11500824H
Date	November 22, 2016
Temperature / Humidity	24deg. C / 42 % RH
Engineer	Tomoki Matsui
Mode	Tx 11ac-80 5775 MHz



* Final result of restricted band edge was shown in tabular data.

Radiated Spurious Emission **(Plot data, Worst case)**

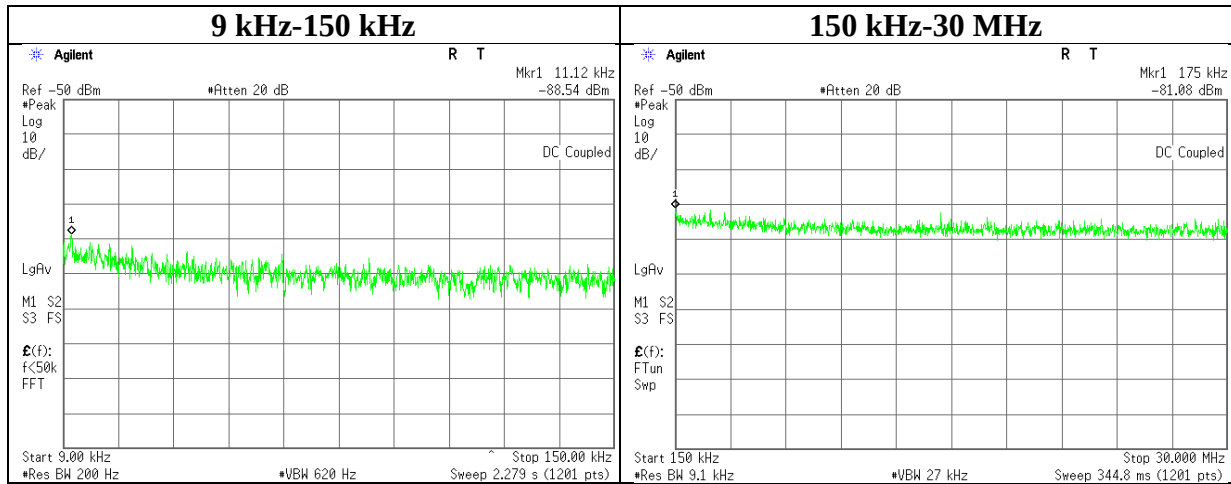
Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber		
Report No.	11500824H		
Date	November 21, 2016	November 22, 2016	November 23, 2016
Temperature / Humidity	24deg. C / 46 % RH	24deg. C / 42 % RH	25deg. C / 39 % RH
Engineer	Tomoki Matsui	Tomoki Matsui	Tomoki Matsui
	(1 GHz-10 GHz)	(10 GHz-18 GHz)	(Above 18GHz and Below 1GHz)
Mode	Tx 11ac-20 5300 MHz		



*These plots data contains sufficient number to show the trend of characteristic features for EUT.

Conducted Spurious Emission

Test place	Ise EMC Lab. No.3 Measurement Room
Report No.	11500824H
Date	November 11, 2016
Temperature / Humidity	24deg. C / 39 % RH
Engineer	Ryota Yamanaka
Mode	Tx 11ac-20 5300 MHz



Frequency [kHz]	Reading [dBm]	Cable Loss [dB]	Attenuator Loss [dB]	Antenna Gain* [dBi]	N (Number of Output)	EIRP [dBm]	Distance [m]	Ground bounce [dB]	E (field strength) [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
11.12	-88.5	0.05	9.8	2.0	1	-76.7	300	6.0	-15.4	46.6	62.0	
175.00	-81.1	0.05	9.8	2.0	1	-69.2	300	6.0	-7.9	22.7	30.6	

$E [dBuV/m] = EIRP [dBm] - 20 \log (Distance [m]) + Ground\ bounce [dB] + 104.8 [dBuV/m]$

$EIRP [dBm] = Reading [dBm] + Cable\ loss [dB] + Attenuator\ Loss [dB] + Antenna\ gain [dBi] + 10 * \log (N)$

* N :Number of output

*2.0 dBi was applied to the test result based on KDB 558074 since antenna gain was less than 2.0 dBi.

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APPENDIX 2: Test instruments

Test equipment

Control No.	Instrument	Manufacturer	Model No	Serial No	Test Item	Calibration Date * Interval(month)
MOS-29	Thermo-Hygrometer	Custom	CTH-201	2901	AT	2016/01/21 * 12
MRENT-130	Spectrum Analyzer	Agilent	E4440A	MY46187750	AT	2016/06/03 * 12
MPM-16	Power Meter	Agilent	8990B	MY51000271	AT	2016/04/07 * 12
MPSE-22	Power sensor	Agilent	N1923A	MY54070003	AT	2016/04/07 * 12
MAT-58	Attenuator(10dB)	Suhner	6810.19.A	-	AT	2016/01/18 * 12
MCC-171	Microwave Cable	Junkosha	MWX221	1409S494	AT	2016/03/11 * 12
MCC-38	Coaxial Cable	UL Japan	-	-	AT	2015/12/07 * 12
MAT-10	Attenuator(10dB)	Weinschel Corp	2	BL1173	AT	2015/11/10 * 12
MAEC-03	Semi Anechoic Chamber(NSA)	TDK	Semi Anechoic Chamber 3m	DA-10005	RE/CE	2016/10/20 * 12
MOS-13	Thermo-Hygrometer	Custom	CTH-180	1301	RE/CE	2016/01/21 * 12
MJM-16	Measure	KOMELON	KMC-36	-	RE/CE	-
COTS-MEMI	EMI measurement program	TSJ	TEPTO-DV	-	RE/CE	-
MSA-16	Spectrum Analyzer	Agilent	E4440A	MY46186390	RE	2016/02/08 * 12
MHA-20	Horn Antenna 1-18GHz	Schwarzbeck	BBHA9120D	258	RE	2016/05/29 * 12
MCC-167	Microwave Cable	Junkosha	MWX221	1404S374(1m) / 1405S074(5m)	RE	2016/05/20 * 12
MPA-11	MicroWave System Amplifier	Agilent	83017A	MY39500779	RE	2016/03/24 * 12
MHA-16	Horn Antenna 15-40GHz	Schwarzbeck	BBHA9170	BBHA9170306	RE	2016/05/29 * 12
MMM-08	DIGITAL HiTESTER	Hioki	3805	051201197	RE/CE	2016/01/13 * 12
MSA-04	Spectrum Analyzer	Agilent	E4448A	US44300523	RE/CE	2016/11/10 * 12
MCC-177	Microwave Cable	Junkosha	MMX221-00500D MSDMS	1502S304	RE	2016/03/10 * 12
MHF-22	High Pass Filter 7-20GHz	TOKIMEC	TF37NCCB	602	RE	2016/01/19 * 12
MCC-55	Microwave Cable	Suhner	SUCOFLEX101	2874(1m) / 2877(5m)	RE	2016/03/28 * 12
MHA-29	Horn Antenna 26.5-40GHz	ETS LINDGREN	3160-10	00152399	RE	2016/09/28 * 12
MPA-22	Pre Amplifier	MITEQ, Inc	AMF-6F-2600400-3 3-8P / AMF-4F-2600400-3 3-8P	1871355 / 1871328	RE	2016/09/06 * 12
MTR-08	Test Receiver	Rohde & Schwarz	ESCI	100767	RE/CE	2016/09/15 * 12
MBA-03	Biconical Antenna	Schwarzbeck	BBA9106	1915	RE	2016/10/15 * 12
MLA-22	Logperiodic Antenna(200-1000MHz)	Schwarzbeck	VUSLP9111B	911B-191	RE	2016/01/30 * 12
MCC-51	Coaxial cable	UL Japan	-	-	RE	2016/07/26 * 12
MAT-70	Attenuator(6dB)	Agilent	8491A-006	MY52460153	RE	2016/04/05 * 12
MPA-13	Pre Amplifier	SONOMA INSTRUMENT	310	260834	RE	2016/03/24 * 12
MLS-23	LISN(AMN)	Schwarzbeck	NSLK8127	8127-729	CE(AE)	2016/07/07 * 12
MLS-24	LISN(AMN)	Schwarzbeck	NSLK8127	8127-730	CE(EUT)	2016/07/11 * 12
MTA-31	Terminator	TME	CT-01	-	CE	2016/01/12 * 12
MCC-112	Coaxial cable	Fujikura/Suhner/TSJ	5D-2W(10m)/SFM141(3m)/sucoform141-PE(1m)/421-010(1.5m)/RFM-E321(Switcher)	-/00640	CE	2016/07/26 * 12
MAT-66	Attenuator(13dB)	JFW Industries, Inc.	50FP-013H2 N	-	CE	2016/01/14 * 12

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

All equipment is calibrated with valid calibrations. Each measurement data 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 test
 RE: Radiated Emission test
 AT: Antenna Terminal Conducted test