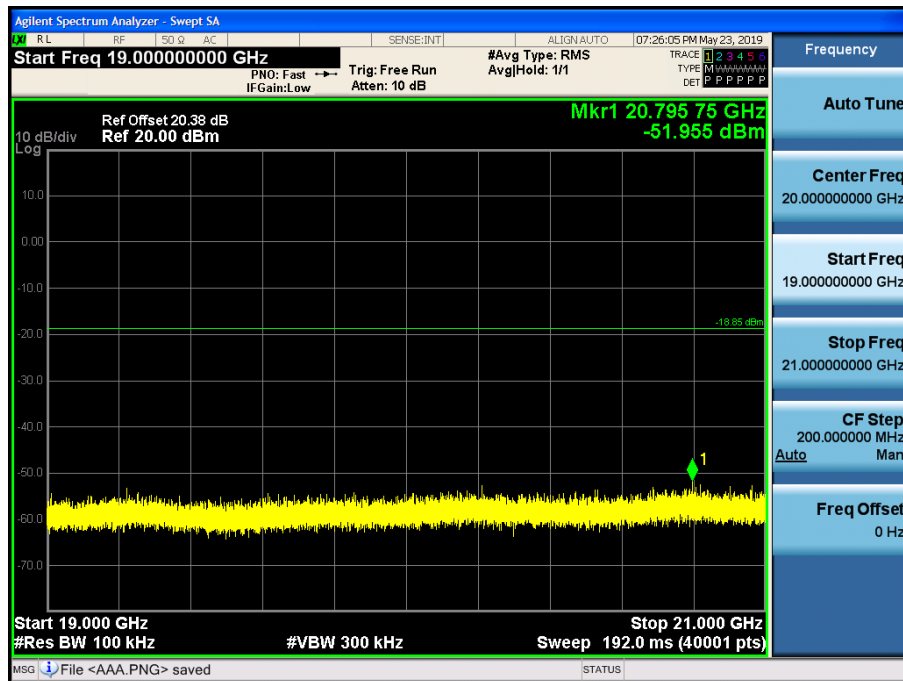


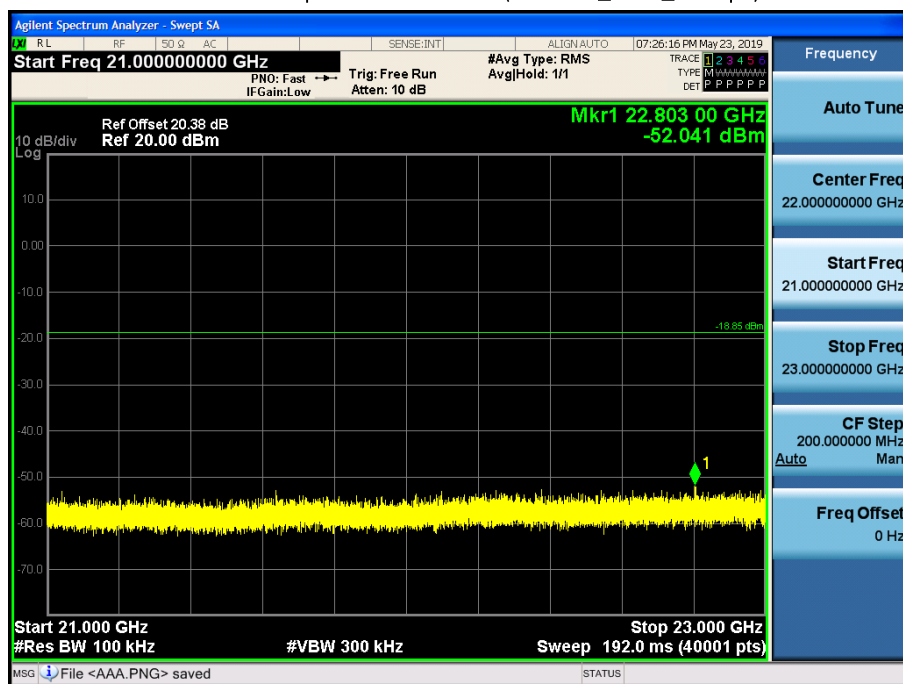
19 GHz ~ 21 GHz

Conducted Spurious Emission (802.11b_Ch.1_2 Mbps)



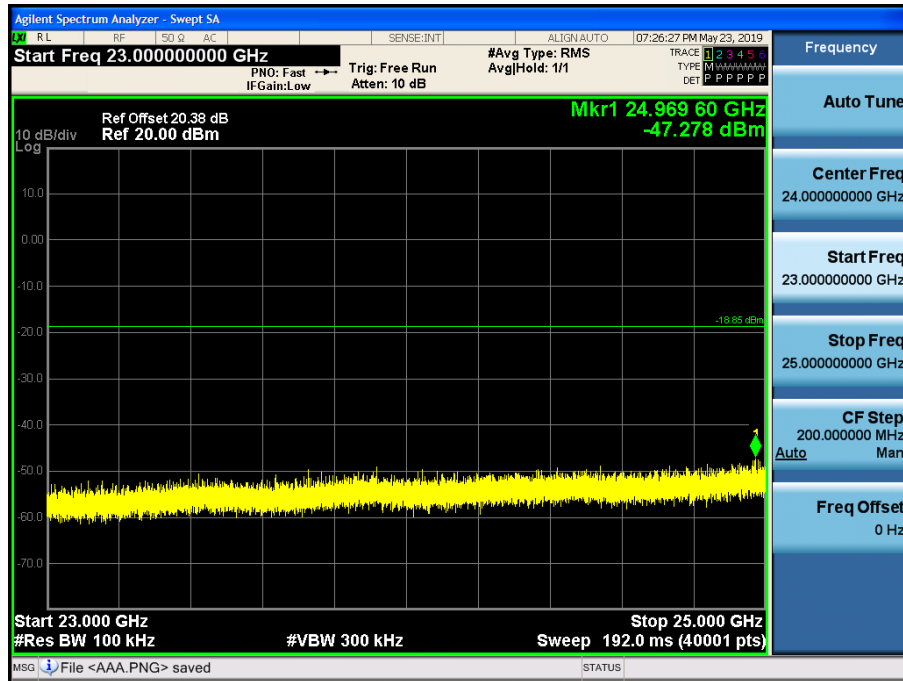
21 GHz ~ 23 GHz

Conducted Spurious Emission (802.11b_Ch.1_2 Mbps)



23 GHz ~ 25 GHz

Conducted Spurious Emission (802.11b_Ch.1_2 Mbps)



9.6 RADIATED SPURIOUS EMISSIONS

Frequency Range : 9 kHz – 30MHz

Frequency	Reading	Ant. factor	Cable loss	Ant. POL	Total	Limit	Margin
MHz	dBuV/m	dBm/m	dBm	(H/V)	dBuV/m	dBuV/m	dB
No Critical peaks found							

Note:

1. The reading of emissions are attenuated more than 20 dB below the permissible limits or the field strength is too small to be measured.
2. Distance extrapolation factor = $40 \cdot \log(\text{specific distance} / \text{test distance})$ (dB)
3. Limit line = specific Limits (dBuV) + Distance extrapolation factor
4. Radiated test is performed with hopping off.

Frequency Range : Below 1 GHz

Frequency	Reading	Ant. factor	Cable loss	Ant. POL	Total	Limit	Margin
MHz	dBuV/m	dBm/m	dBm	(H/V)	dBuV/m	dBuV/m	dB
No Critical peaks found							

Note:

1. Radiated emissions measured in frequency range from 30 MHz to 1000 MHz were made with an instrument using Quasi peak detector mode.

Frequency Range : Above 1 GHz

Operation Mode:	802.11b
Transfer Rate:	1 Mbps
Operating Frequency	2412
Channel No.	01 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L.-A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
4824	52.43	1.95	V	54.38	73.98	19.60	PK
4824	44.55	1.95	V	46.50	53.98	7.48	AV
7236	48.25	9.86	V	58.11	73.98	15.87	PK
7236	36.33	9.86	V	46.19	53.98	7.79	AV
4824	53.69	1.95	H	55.64	73.98	18.34	PK
4824	46.68	1.95	H	48.63	53.98	5.35	AV
7236	49.45	9.86	H	59.31	73.98	14.67	PK
7236	37.32	9.86	H	47.18	53.98	6.80	AV

Operation Mode:	802.11g
Transfer Rate:	6 Mbps
Operating Frequency	2412
Channel No.	01 Ch

Frequency [MHz]	Reading [dBuV]	Duty Cycle Factor [dB]	A.F.+C.L.- A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measure ment Type
4824	50.42	0.00	1.95	V	52.37	73.98	21.61	PK
4824	38.72	0.11	1.95	V	40.78	53.98	13.20	AV
7236	48.61	0.00	9.86	V	58.47	73.98	15.51	PK
7236	36.36	0.11	9.86	V	46.33	53.98	7.65	AV
4824	51.83	0.00	1.95	H	53.78	73.98	20.20	PK
4824	39.53	0.11	1.95	H	41.59	53.98	12.39	AV
7236	49.34	0.00	9.86	H	59.20	73.98	14.78	PK
7236	37.37	0.11	9.86	H	47.34	53.98	6.64	AV

Operation Mode: 802.11n (HT20)
 Transfer MCS Index: 0
 Operating Frequency: 2412
 Channel No. 01 Ch

Frequency [MHz]	Reading [dBuV]	Duty Cycle Factor [dB]	A.F.+C.L.- A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measure ment Type
4824	51.30	0.00	1.95	V	53.25	73.98	20.73	PK
4824	38.92	0.12	1.95	V	40.99	53.98	13.00	AV
7236	48.68	0.00	9.86	V	58.54	73.98	15.44	PK
7236	36.51	0.12	9.86	V	46.49	53.98	7.50	AV
4824	51.72	0.00	1.95	H	53.67	73.98	20.31	PK
4824	39.09	0.12	1.95	H	41.16	53.98	12.83	AV
7236	49.29	0.00	9.86	H	59.15	73.98	14.83	PK
7236	37.36	0.12	9.86	H	47.34	53.98	6.65	AV

Operation Mode: 802.11b

Transfer Rate: 1 Mbps

Operating Frequency: 2437

Channel No. 06 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L.-A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
4874	51.63	2.33	V	53.96	73.98	20.02	PK
4874	43.67	2.33	V	46.00	53.98	7.98	AV
7311	50.21	10.14	V	60.35	73.98	13.63	PK
7311	37.63	10.14	V	47.77	53.98	6.21	AV
4874	52.99	2.33	H	55.32	73.98	18.66	PK
4874	44.57	2.33	H	46.90	53.98	7.08	AV
7311	51.10	10.14	H	61.24	73.98	12.74	PK
7311	38.09	10.14	H	48.23	53.98	5.75	AV

Operation Mode: 802.11g

Transfer Rate: 6 Mbps

Operating Frequency: 2437

Channel No. 06 Ch

Frequency [MHz]	Reading [dBuV]	Duty Cycle Factor [dB]	A.F.+C.L.- A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measure ment Type
4874	50.56	0.00	2.33	V	52.89	73.98	21.09	PK
4874	37.76	0.11	2.33	V	40.20	53.98	13.78	AV
7311	48.70	0.00	10.14	V	58.84	73.98	15.14	PK
7311	36.16	0.11	10.14	V	46.41	53.98	7.57	AV
4874	51.27	0.00	2.33	H	53.60	73.98	20.38	PK
4874	38.83	0.11	2.33	H	41.27	53.98	12.71	AV
7311	49.99	0.00	10.14	H	60.13	73.98	13.85	PK
7311	37.18	0.11	10.14	H	47.43	53.98	6.55	AV

Operation Mode:	802.11n (HT20)
Transfer MCS Index:	0
Operating Frequency	2437
Channel No.	06 Ch

Frequency [MHz]	Reading [dBuV]	Duty Cycle Factor [dB]	A.F.+C.L.- A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measure ment Type
4874	50.62	0.00	2.33	V	52.95	73.98	21.03	PK
4874	37.23	0.12	2.33	V	39.68	53.98	14.31	AV
7311	48.85	0.00	10.14	V	58.99	73.98	14.99	PK
7311	36.88	0.12	10.14	V	47.14	53.98	6.84	AV
4874	51.03	0.00	2.33	H	53.36	73.98	20.62	PK
4874	38.79	0.12	2.33	H	41.24	53.98	12.75	AV
7311	49.72	0.00	10.14	H	59.86	73.98	14.12	PK
7311	37.19	0.12	10.14	H	47.45	53.98	6.54	AV

Operation Mode: 802.11b
 Transfer Rate: 1 Mbps
 Operating Frequency: 2462
 Channel No.: 11 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L.-A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
4924	52.69	2.28	V	54.97	73.98	19.01	PK
4924	45.27	2.28	V	47.55	53.98	6.43	AV
7386	48.50	9.81	V	58.31	73.98	15.67	PK
7386	35.82	9.81	V	45.63	53.98	8.35	AV
4924	53.18	2.28	H	55.46	73.98	18.52	PK
4924	47.35	2.28	H	49.63	53.98	4.35	AV
7386	48.79	9.81	H	58.60	73.98	15.38	PK
7386	36.54	9.81	H	46.35	53.98	7.63	AV

Operation Mode: 802.11g
 Transfer Rate: 6 Mbps
 Operating Frequency: 2462
 Channel No.: 11 Ch

Frequency [MHz]	Reading [dBuV]	Duty Cycle Factor [dB]	A.F.+C.L.- A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measure ment Type
4924	49.91	0.00	2.28	V	52.19	73.98	21.79	PK
4924	38.82	0.11	2.28	V	41.21	53.98	12.77	AV
7386	48.24	0.00	9.81	V	58.05	73.98	15.93	PK
7386	35.22	0.11	9.81	V	45.14	53.98	8.84	AV
4924	50.79	0.00	2.28	H	53.07	73.98	20.91	PK
4924	39.07	0.11	2.28	H	41.46	53.98	12.52	AV
7386	48.53	0.00	9.81	H	58.34	73.98	15.64	PK
7386	36.51	0.11	9.81	H	46.43	53.98	7.55	AV

Operation Mode: 802.11n (HT20)
 Transfer MCS Index: 0
 Operating Frequency: 2462
 Channel No.: 11 Ch

Frequency [MHz]	Reading [dBuV]	Duty Cycle Factor [dB]	A.F.+C.L.- A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measure ment Type
4924	50.50	0.00	2.28	V	52.78	73.98	21.20	PK
4924	37.76	0.12	2.28	V	40.16	53.98	13.83	AV
7386	48.21	0.00	9.81	V	58.02	73.98	15.96	PK
7386	35.88	0.12	9.81	V	45.81	53.98	8.17	AV
4924	51.24	0.00	2.28	H	53.52	73.98	20.46	PK
4924	38.82	0.12	2.28	H	41.22	53.98	12.77	AV
7386	48.44	0.00	9.81	H	58.25	73.98	15.73	PK
7386	36.52	0.12	9.81	H	46.45	53.98	7.53	AV

Operation Mode: 802.11b
 Transfer Rate: 1 Mbps
 Operating Frequency: 2467
 Channel No.: 12 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L.-A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
4934	49.71	2.21	V	51.92	73.98	22.06	PK
4934	35.96	2.21	V	38.17	53.98	15.81	AV
7401	48.35	9.78	V	58.13	73.98	15.85	PK
7401	35.82	9.78	V	45.60	53.98	8.38	AV
4934	49.78	2.21	H	51.99	73.98	21.99	PK
4934	37.65	2.21	H	39.86	53.98	14.12	AV
7401	49.28	9.78	H	59.06	73.98	14.92	PK
7401	36.99	9.78	H	46.77	53.98	7.21	AV

Operation Mode: 802.11g
 Transfer Rate: 6 Mbps
 Operating Frequency: 2467
 Channel No.: 12 Ch

Frequency [MHz]	Reading [dBuV]	Duty Cycle Factor [dB]	A.F.+C.L.- A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measure ment Type
4934	49.02	0.00	2.21	V	51.23	73.98	22.75	PK
4934	36.55	0.11	2.21	V	38.87	53.98	15.11	AV
7401	47.25	0.00	9.78	V	57.03	73.98	16.95	PK
7401	35.26	0.11	9.78	V	45.15	53.98	8.83	AV
4934	49.46	0.00	2.21	H	51.67	73.98	22.31	PK
4934	37.69	0.11	2.21	H	40.01	53.98	13.97	AV
7401	48.69	0.00	9.78	H	58.47	73.98	15.51	PK
7401	36.09	0.11	9.78	H	45.98	53.98	8.00	AV

Operation Mode: 802.11n (HT20)
 Transfer MCS Index: 0
 Operating Frequency: 2467
 Channel No. 12 Ch

Frequency [MHz]	Reading [dBuV]	Duty Cycle Factor [dB]	A.F.+C.L.- A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measure ment Type
4934	49.22	0.00	2.21	V	51.43	73.98	22.55	PK
4934	36.52	0.12	2.21	V	38.85	53.98	15.14	AV
7401	47.62	0.00	9.78	V	57.40	73.98	16.58	PK
7401	36.11	0.12	9.78	V	46.01	53.98	7.97	AV
4934	49.46	0.00	2.21	H	51.67	73.98	22.31	PK
4934	37.66	0.12	2.21	H	39.99	53.98	14.00	AV
7401	48.83	0.00	9.78	H	58.61	73.98	15.37	PK
7401	36.92	0.12	9.78	H	46.82	53.98	7.16	AV

Operation Mode: 802.11b

Transfer Rate: 1 Mbps

Operating Frequency: 2472

Channel No.: 13 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L.-A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
4944	50.28	2.35	V	52.63	73.98	21.35	PK
4944	36.95	2.35	V	39.30	53.98	14.68	AV
7416	48.52	9.80	V	58.32	73.98	15.66	PK
7416	36.22	9.80	V	46.02	53.98	7.96	AV
4944	50.26	2.35	H	52.61	73.98	21.37	PK
4944	37.93	2.35	H	40.28	53.98	13.70	AV
7416	49.94	9.80	H	59.74	73.98	14.24	PK
7416	37.06	9.80	H	46.86	53.98	7.12	AV

Operation Mode: 802.11g

Transfer Rate: 6 Mbps

Operating Frequency: 2472

Channel No.: 13 Ch

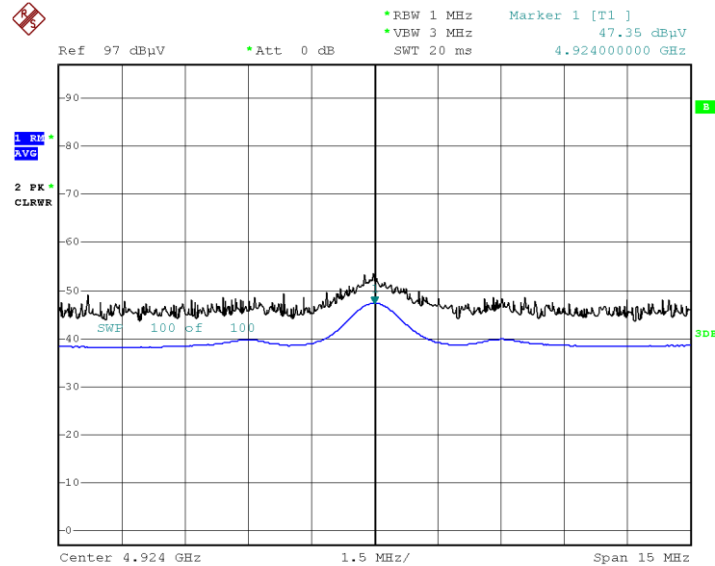
Frequency [MHz]	Reading [dBuV]	Duty Cycle Factor [dB]	A.F.+C.L.- A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measure ment Type
4944	49.41	0.00	2.35	V	51.76	73.98	22.22	PK
4944	37.81	0.11	2.35	V	40.27	53.98	13.71	AV
7416	48.44	0.00	9.80	V	58.24	73.98	15.74	PK
7416	36.81	0.11	9.80	V	46.72	53.98	7.26	AV
4944	50.05	0.00	2.35	H	52.40	73.98	21.58	PK
4944	37.94	0.11	2.35	H	40.40	53.98	13.58	AV
7416	49.51	0.00	9.80	H	59.31	73.98	14.67	PK
7416	37.09	0.11	9.80	H	47.00	53.98	6.98	AV

Operation Mode: 802.11n (HT20)
 Transfer MCS Index: 0
 Operating Frequency: 2472
 Channel No. 13 Ch

Frequency [MHz]	Reading [dBuV]	Duty Cycle Factor [dB]	A.F.+C.L.- A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measure ment Type
4944	49.90	0.00	2.35	V	52.25	73.98	21.73	PK
4944	38.02	0.12	2.35	V	40.49	53.98	13.50	AV
7416	48.93	0.00	9.80	V	58.73	73.98	15.25	PK
7416	36.15	0.12	9.80	V	46.07	53.98	7.92	AV
4944	50.38	0.00	2.35	H	52.73	73.98	21.25	PK
4944	38.11	0.12	2.35	H	40.58	53.98	13.41	AV
7416	49.43	0.00	9.80	H	59.23	73.98	14.75	PK
7416	37.11	0.12	9.80	H	47.03	53.98	6.95	AV

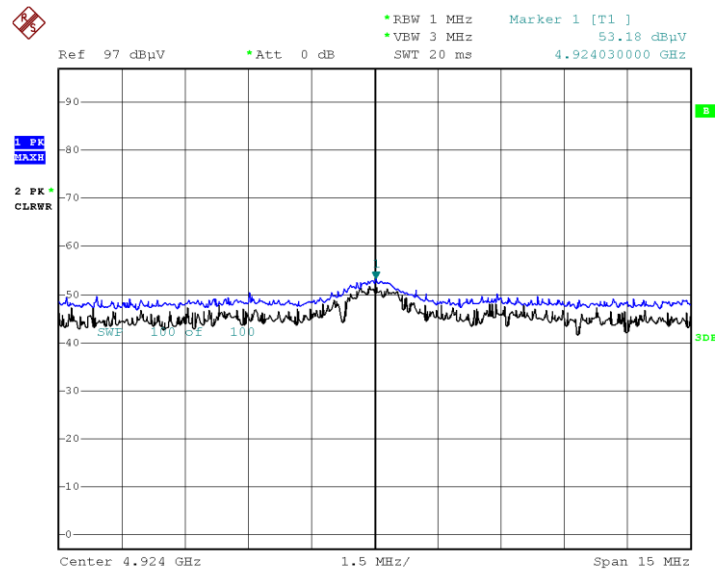
Test Plots (Worst case : Y-H)

Radiated Spurious Emissions plot – Average Reading (802.11b, Ch.11 2nd Harmonic)



Date: 17.JUN.2019 10:55:27

Radiated Spurious Emissions plot – Peak Reading (802.11b, Ch.11 2nd Harmonic)



Date: 21.MAY.2019 17:07:15

Note:

Plot of worst case are only reported.

9.7 RADIATED RESTRICTED BAND EDGES

Operation Mode:	802.11b
Transfer Rate:	1 Mbps
Operating Frequency	2412 MHz, 2462 MHz
Channel No.	01 Ch, 11 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L.+D.F. -A.G+ATT [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
2390.0	55.31	0.85	H	56.16	73.98	17.82	PK
2390.0	44.96	0.85	H	45.81	53.98	8.17	AV
2390.0	54.93	0.85	V	55.78	73.98	18.20	PK
2390.0	43.23	0.85	V	44.08	53.98	9.90	AV
2483.5	54.81	-1.13	H	55.94	73.98	18.04	PK
2483.5	43.97	1.13	H	45.10	53.98	8.88	AV
2483.5	54.48	1.13	V	55.61	73.98	18.37	PK
2483.5	42.11	1.13	V	43.24	53.98	10.74	AV

Operation Mode:	802.11b
Transfer Rate:	1 Mbps
Operating Frequency	2467 MHz, 2472 MHz
Channel No.	12 Ch, 13 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L.+D.F. -A.G+ATT [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
2483.5	55.05	1.13	H	56.18	73.98	17.80	PK
2483.5	41.85	1.13	H	42.98	53.98	11.00	AV
2483.5	54.39	1.13	V	55.52	73.98	18.46	PK
2483.5	40.72	1.13	V	41.85	53.98	12.13	AV
2483.5	53.77	1.13	H	54.90	73.98	19.08	PK
2483.5	43.56	1.13	H	44.69	53.98	9.29	AV
2483.5	52.68	1.13	V	53.81	73.98	20.17	PK
2483.5	42.99	1.13	V	44.12	53.98	9.86	AV

Operation Mode: 802.11g
 Transfer Rate: 6 Mbps
 Operating Frequency: 2412 MHz, 2462 MHz
 Channel No.: 01 Ch, 11 Ch

Frequency [MHz]	Reading [dBuV]	Duty Cycle Factor [dB]	A.F.+C.L.+D.F -A.G+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
2390.0	65.52	0.00	0.85	H	66.37	73.98	7.61	PK
2390.0	50.26	0.11	0.85	H	51.22	53.98	2.76	AV
2390.0	64.81	0.00	0.85	V	65.66	73.98	8.32	PK
2390.0	50.03	0.11	0.85	V	50.99	53.98	2.99	AV
2483.5	65.71	0.00	1.13	H	66.84	73.98	7.14	PK
2483.5	50.49	0.11	1.13	H	51.73	53.98	2.25	AV
2483.5	63.02	0.00	1.13	V	64.15	73.98	9.83	PK
2483.5	48.71	0.11	1.13	V	49.95	53.98	4.03	AV

Operation Mode: 802.11g
 Transfer Rate: 6 Mbps
 Operating Frequency: 2467 MHz, 2472 MHz
 Channel No.: 12 Ch, 13 Ch

Frequency [MHz]	Reading [dBuV]	Duty Cycle Factor [dB]	A.F.+C.L.+D.F -A.G+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
2483.5	54.80	0.00	1.13	H	55.93	73.98	18.05	PK
2483.5	42.55	0.11	1.13	H	43.79	53.98	10.19	AV
2483.5	53.17	0.00	1.13	V	54.30	73.98	19.68	PK
2483.5	41.89	0.11	1.13	V	43.13	53.98	10.85	AV
2483.5	59.90	0.00	1.13	H	61.03	73.98	12.95	PK
2483.5	46.68	0.11	1.13	H	47.92	53.98	6.06	AV
2483.5	58.35	0.00	1.13	V	59.48	73.98	14.50	PK
2483.5	46.05	0.11	1.13	V	47.29	53.98	6.69	AV

Operation Mode: 802.11n (HT20)

Transfer Rate: 0

Operating Frequency: 2412 MHz, 2462 MHz

Channel No.: 01 Ch, 11 Ch

Frequency [MHz]	Reading [dBuV]	Duty Cycle Factor [dB]	A.F.+C.L.+D.F -A.G+ATT [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
2390.0	63.72	0.00	0.85	H	64.57	73.98	9.41	PK
2390.0	50.40	0.12	0.85	H	51.37	53.98	2.61	AV
2390.0	62.72	0.00	0.85	V	63.57	73.98	10.41	PK
2390.0	49.97	0.12	0.85	V	50.94	53.98	3.04	AV
2483.5	63.88	0.00	1.13	H	65.01	73.98	8.97	PK
2483.5	49.89	0.12	1.13	H	51.14	53.98	2.84	AV
2483.5	61.85	0.00	1.13	V	62.98	73.98	11.00	PK
2483.5	49.51	0.12	1.13	V	50.76	53.98	3.22	AV

Operation Mode: 802.11n (HT20)

Transfer Rate: 0

Operating Frequency: 2467 MHz, 2472 MHz

Channel No.: 12 Ch, 13 Ch

Frequency [MHz]	Reading [dBuV]	Duty Cycle Factor [dB]	A.F.+C.L.+D.F -A.G+ATT [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
2483.5	54.44	0.00	1.13	H	55.57	73.98	18.41	PK
2483.5	42.51	0.12	1.13	H	43.76	53.98	10.23	AV
2483.5	53.78	0.00	1.13	V	54.91	73.98	19.07	PK
2483.5	41.89	0.12	1.13	V	43.14	53.98	10.85	AV
2483.5	61.30	0.00	1.13	H	62.43	73.98	11.55	PK
2483.5	47.90	0.12	1.13	H	49.15	53.98	4.83	AV
2483.5	60.34	0.00	1.13	H	61.47	73.98	12.51	PK
2483.5	47.51	0.12	1.13	H	48.76	53.98	5.22	AV

Operation Mode: 802.11n (HT20)
 Transfer MCS Index: 0
 Operating Frequency: 2417 MHz
 Channel No. 2 Ch

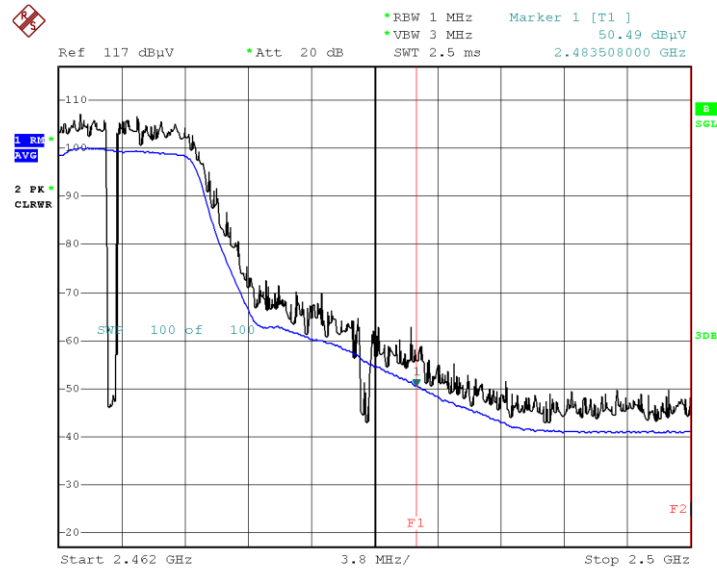
Frequency [MHz]	Reading [dBuV]	Duty Cycle Factor [dB]	A.F.+C.L.+D.F -A.G+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
2390.0	55.55	0.00	0.85	H	56.40	73.98	17.58	PK
2390.0	44.14	0.12	0.85	H	45.11	53.98	8.87	AV
2390.0	54.97	0.00	0.85	V	55.82	73.98	18.16	PK
2390.0	43.49	0.12	0.85	V	44.46	53.98	9.52	AV

Operation Mode: 802.11n (HT20)
 Transfer MCS Index: 0
 Operating Frequency: 2457 MHz
 Channel No. 10 Ch

Frequency [MHz]	Reading [dBuV]	Duty Cycle Factor [dB]	A.F.+C.L.+D.F -A.G+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
2483.5	59.77	0.00	1.13	H	60.90	73.98	13.08	PK
2483.5	45.86	0.12	1.13	H	47.11	53.98	6.87	AV
2483.5	58.41	0.00	1.13	V	59.54	73.98	14.44	PK
2483.5	44.81	0.12	1.13	V	46.06	53.98	7.92	AV

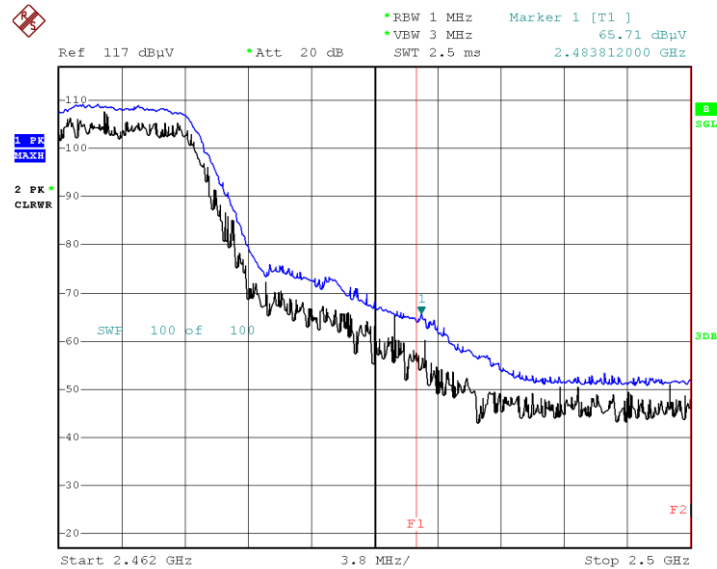
Test Plots (Worst case : X-H)

Radiated Restricted Band Edges plot – Average Reading (802.11g Ch.11)



Date: 21.MAY.2019 11:48:25

Radiated Restricted Band Edges plot – Peak Reading (802.11g Ch.11)



Date: 21.MAY.2019 11:49:29

Note:

Plot of worst case are only reported.

9.8 POWERLINE CONDUCTED EMISSIONS

Conducted Emissions (Line 1)

2.4G_WLAN_L1

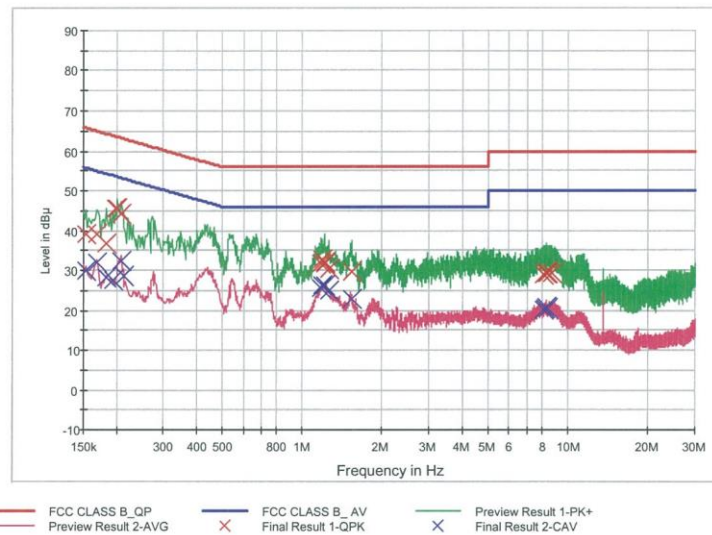
1 / 2

HCT TEST Report

Common Information

EUT: SM-T725
Manufacturer: SAMSUNG
Test Site: SHIELD ROOM
Operating Conditions: 2.4G WLAN_L1

FCC CLASS B_Exten Cable



Final Result 1

Frequency (MHz)	QuasiPeak (dBuV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.154000	39.2	9.000	Off	L1	9.7	26.6	65.8
0.168000	39.3	9.000	Off	L1	9.7	25.8	65.1
0.184000	36.6	9.000	Off	L1	9.7	27.7	64.3
0.198000	45.5	9.000	Off	L1	9.7	18.2	63.7
0.202000	45.5	9.000	Off	L1	9.7	18.0	63.5
0.208000	44.4	9.000	Off	L1	9.7	18.9	63.3
1.176000	31.8	9.000	Off	L1	9.8	24.2	56.0
1.186000	32.6	9.000	Off	L1	9.8	23.4	56.0
1.212000	32.1	9.000	Off	L1	9.8	23.9	56.0
1.222000	31.8	9.000	Off	L1	9.8	24.2	56.0
1.264000	30.4	9.000	Off	L1	9.9	25.6	56.0
1.542000	29.8	9.000	Off	L1	9.9	26.2	56.0
8.066000	28.8	9.000	Off	L1	10.2	31.2	60.0
8.250000	29.4	9.000	Off	L1	10.2	30.6	60.0
8.326000	29.5	9.000	Off	L1	10.2	30.5	60.0
8.334000	29.5	9.000	Off	L1	10.2	30.5	60.0
8.404000	29.3	9.000	Off	L1	10.2	30.7	60.0
8.688000	29.4	9.000	Off	L1	10.2	30.6	60.0

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2.4G_WLAN_L1

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Final Result 2

Frequency (MHz)	CAverage (dBuV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.154000	30.1	9.000	Off	L1	9.7	25.7	55.8
0.168000	31.9	9.000	Off	L1	9.7	23.1	55.1
0.184000	28.3	9.000	Off	L1	9.7	26.0	54.3
0.194000	27.6	9.000	Off	L1	9.7	26.3	53.9
0.208000	32.5	9.000	Off	L1	9.7	20.8	53.3
0.212000	28.5	9.000	Off	L1	9.7	24.6	53.1
1.176000	25.5	9.000	Off	L1	9.8	20.5	46.0
1.186000	26.2	9.000	Off	L1	9.8	19.8	46.0
1.190000	26.4	9.000	Off	L1	9.8	19.6	46.0
1.212000	26.2	9.000	Off	L1	9.8	19.8	46.0
1.264000	24.8	9.000	Off	L1	9.9	21.2	46.0
1.542000	22.9	9.000	Off	L1	9.9	23.1	46.0
8.066000	20.3	9.000	Off	L1	10.2	29.7	50.0
8.146000	20.6	9.000	Off	L1	10.2	29.4	50.0
8.250000	20.9	9.000	Off	L1	10.2	29.1	50.0
8.334000	20.7	9.000	Off	L1	10.2	29.3	50.0
8.382000	20.5	9.000	Off	L1	10.2	29.5	50.0
8.404000	20.6	9.000	Off	L1	10.2	29.4	50.0

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Conducted Emissions (Line 2)

2.4G_WLAN_N

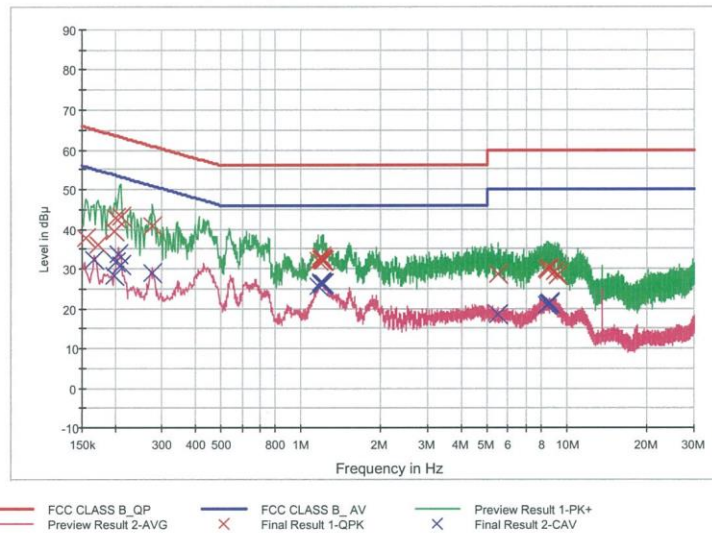
1 / 2

HCT TEST Report

Common Information

EUT: SM-T725
 Manufacturer: SAMSUNG
 Test Site: SHIELD ROOM
 Operating Conditions: 2.4G WLAN_N

FCC CLASS B_Exten Cable



Final Result 1

Frequency (MHz)	QuasiPeak (dBuV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.156000	37.6	9.000	Off	N	9.8	28.0	65.7
0.172000	36.2	9.000	Off	N	9.8	28.7	64.9
0.198000	39.4	9.000	Off	N	9.8	24.3	63.7
0.202000	42.8	9.000	Off	N	9.9	20.7	63.5
0.210000	43.3	9.000	Off	N	9.9	19.9	63.2
0.276000	40.7	9.000	Off	N	9.9	20.2	60.9
1.166000	32.2	9.000	Off	N	10.0	23.8	56.0
1.186000	32.5	9.000	Off	N	10.0	23.5	56.0
1.192000	33.0	9.000	Off	N	10.0	23.0	56.0
1.204000	31.9	9.000	Off	N	10.0	24.1	56.0
1.208000	32.3	9.000	Off	N	10.0	23.7	56.0
1.218000	31.9	9.000	Off	N	10.0	24.1	56.0
5.504000	28.5	9.000	Off	N	10.3	31.5	60.0
8.406000	29.9	9.000	Off	N	10.4	30.1	60.0
8.506000	29.7	9.000	Off	N	10.4	30.3	60.0
8.602000	30.0	9.000	Off	N	10.4	30.0	60.0
9.014000	29.4	9.000	Off	N	10.4	30.6	60.0
9.246000	28.2	9.000	Off	N	10.4	31.8	60.0

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2.4G_WLAN_N

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Final Result 2

Frequency (MHz)	CAverage (dBuV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.166000	32.4	9.000	Off	N	9.8	22.7	55.2
0.198000	28.4	9.000	Off	N	9.8	25.3	53.7
0.202000	31.7	9.000	Off	N	9.9	21.8	53.5
0.206000	33.6	9.000	Off	N	9.9	19.7	53.4
0.210000	31.2	9.000	Off	N	9.9	22.0	53.2
0.276000	29.1	9.000	Off	N	9.9	21.8	50.9
1.166000	25.5	9.000	Off	N	10.0	20.5	46.0
1.186000	26.3	9.000	Off	N	10.0	19.7	46.0
1.190000	26.7	9.000	Off	N	10.0	19.3	46.0
1.200000	26.2	9.000	Off	N	10.0	19.8	46.0
1.204000	26.0	9.000	Off	N	10.0	20.0	46.0
1.212000	26.3	9.000	Off	N	10.0	19.7	46.0
5.504000	18.5	9.000	Off	N	10.3	31.5	50.0
8.406000	21.0	9.000	Off	N	10.4	29.0	50.0
8.418000	20.9	9.000	Off	N	10.4	29.1	50.0
8.506000	21.1	9.000	Off	N	10.4	28.9	50.0
8.580000	21.1	9.000	Off	N	10.4	28.9	50.0
8.602000	21.4	9.000	Off	N	10.4	28.6	50.0

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10. LIST OF TEST EQUIPMENT

Conducted Test

Manufacturer	Model / Equipment	Calibration Date	Calibration Interval	Serial No.
Rohde & Schwarz	ENV216 / LISN	12/12/2018	Annual	102245
Rohde & Schwarz	ESCI / Test Receiver	06/27/2018	Annual	100033
ESPAC	SU-642 / Temperature Chamber	03/12/2019	Annual	0093008124
Agilent	N9020A / Signal Analyzer	06/08/2018	Annual	MY51110085
Agilent	N9030A / Signal Analyzer	11/20/2018	Annual	MY49431210
Agilent	N1911A / Power Meter	04/10/2019	Annual	MY45100523
Agilent	N1921A / Power Sensor	04/10/2019	Annual	MY52260025
Agilent	87300B / Directional Coupler	11/20/2018	Annual	3116A03621
Hewlett Packard	11667B / Power Splitter	06/07/2018	Annual	05001
Hewlett Packard	E3632A / DC Power Supply	06/26/2018	Annual	KR75303960
WEINSCHEL	2-20 / Attenuator(20 dB)	10/26/2018	Annual	BR0592
Rohde & Schwarz	EMC32 / Software	N/A	N/A	N/A
HCT CO., LTD.	FCC WLAN&BT&BLE Conducted Test Software v3.0	N/A	N/A	N/A
Rohde & Schwarz	CBT / Bluetooth Tester	03/07/2019	Annual	100808

Note:

- Equipment listed above that calibrated during the testing period was set for test after the calibration.
- Equipment listed above that has a calibration due date during the testing period, the testing is completed before equipment expiration date.

Radiated Test

Manufacturer	Model / Equipment	Calibration Date	Calibration Interval	Serial No.
Innco system	CO3000 / Controller(Antenna mast)	N/A	N/A	CO3000-4p
Innco system	MA4640/800-XP-EP / Antenna Position Tower	N/A	N/A	N/A
Audix	EM1000 / Controller	N/A	N/A	060520
Audix	Turn Table	N/A	N/A	N/A
Rohde & Schwarz	Loop Antenna	08/23/2018	Biennial	1513-175
Schwarzbeck	VULB 9168 / Hybrid Antenna	08/31/2018	Biennial	00895
Schwarzbeck	VULB 9168 / Hybrid Antenna	08/09/2018	Annual	3368
Schwarzbeck	BBHA 9120D / Horn Antenna	06/30/2017	Biennial	1300
Schwarzbeck	BBHA9170 / Horn Antenna(15 GHz ~ 40 GHz)	12/04/2017	Biennial	BBHA9170541
Rohde & Schwarz	FSP(9 kHz ~ 40 GHz) / Spectrum Analyzer	07/24/2018	Annual	100843
Wainwright Instruments	WHK3.0/18G-10EF / High Pass Filter	01/03/2019	Annual	F6
Wainwright Instruments	WHFX7.0/18G-8SS / High Pass Filter	05/03/2019	Annual	29
Wainwright Instruments	WRCJV2400/2483.5-2370/2520-60/12SS / Band Reject Filter	06/29/2018	Annual	2
Wainwright Instruments	WRCJV5100/5850-40/50-8EEK / Band Reject Filter	01/03/2019	Annual	2
Weinschel	2-3 / Attenuator (3 dB)	10/10/2018	Annual	BR0617
H+S	5910-N-50-010 / Attenuator(10 dB)	11/08/2018	Annual	NONE
CERNEX	CBLU1183540B-01 / Power Amplifier	12/21/2018	Annual	25540
CERNEX	CBL06185030 / Power Amplifier	03/26/2019	Annual	28550
CERNEX	CBL18265035 / Power Amplifier	01/03/2019	Annual	22966
CERNEX	CBL26405040 / Power Amplifier	06/29/2018	Annual	25956
TESCOM	TC-3000C / Bluetooth Tester	03/26/2019	Annual	3000C000276

Note:

- Equipment listed above that calibrated during the testing period was set for test after the calibration.
- Equipment listed above that has a calibration due date during the testing period, the testing is completed before equipment expiration date.

11. ANNEX A_ TEST SETUP PHOTO

Please refer to test setup photo file no. as follows;

No.	Description
1	HCT-RF-1906-FC011-P