CHANNEL	TX Channel 140	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

Rg	Frequency [MHz]	PK+ Level [dBµV/m]	PK+ Limit [dBµV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
10	5,702.500	103.11			13.99	H	291	1
10	5,725.000	57.48	68.20	10.72	14.01	H	291	1
10	5,725.500	59.10	68.20	9.10	14.01	H	291	1

Rg	Frequency [MHz]	PK+ Level [dBµV/m]	PK+ Limit [dBµV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
10	5,697.000	97.86			13.97	V	185.8	1
10	5,725.000	49.96	68.20	18.24	14.01	V	2.2	2
10	5,732.000	52.06	68.20	16.14	14.02	V	359.1	1

REMARKS:

4. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Limit value – Emission level .
2. 5700MHz: Fundamental frequency.
3. #: Out of restricted band.

802.11n (20MHz)

CHANNEL	TX Channel 100	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

Rg	Frequency [MHz]	AVG Level [dBµV/m]	AVG Limit [dBµV/m]	AVG Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
8	5,452.000	38.07	54.00	15.93	13.28	H	355	2
8	5,460.000	38.18	54.00	15.82	13.28	H	294.6	1
8	5,501.500	90.58			13.30	H	355	2

Rg	Frequency [MHz]	PK+ Level [dBµV/m]	PK+ Limit [dBµV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
8	5,458.500	56.13	74.00	17.87	13.28	H	359	1
8	5,460.000	56.24	74.00	17.76	13.28	H	298.2	1
8	5,502.500	103.77			13.31	H	355	2

Rg	Frequency [MHz]	AVG Level [dBµV/m]	AVG Limit [dBµV/m]	AVG Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
8	5,449.000	36.77	54.00	17.23	13.28	V	231.2	1
8	5,460.000	36.65	54.00	17.35	13.28	V	155.9	1
8	5,501.500	87.49			13.30	V	155.9	1

Rg	Frequency [MHz]	PK+ Level [dBµV/m]	PK+ Limit [dBµV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
8	5,459.500	51.82	74.00	22.18	13.28	V	179.8	1
8	5,460.000	50.62	74.00	23.38	13.28	V	190.9	2
8	5,502.500	98.74			13.31	V	179.8	1

REMARKS:

4. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Limit value – Emission level .
2. 5500MHz: Fundamental frequency.
3. #: Out of restricted band.

CHANNEL	TX Channel 116	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

Rg	Frequency [MHz]	AVG Level [dBµV/m]	AVG Limit [dBµV/m]	AVG Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
9	5,454.500	37.51	54.00	16.50	13.28	H	301.7	1
9	5,460.000	37.62	54.00	16.38	13.28	H	301.7	1
9	5,581.000	89.65			13.39	H	301.7	1

Rg	Frequency [MHz]	PK+ Level [dBµV/m]	PK+ Limit [dBµV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
9	5,453.500	51.23	74.00	22.77	13.28	H	298.2	1
9	5,460.000	49.84	74.00	24.16	13.28	H	298.2	1
9	5,582.500	103.02			13.40	H	298.2	1

Rg	Frequency [MHz]	AVG Level [dBµV/m]	AVG Limit [dBµV/m]	AVG Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
9	5,455.500	35.98	54.00	18.02	13.28	V	178.6	1
9	5,460.000	36.01	54.00	17.99	13.28	V	178.6	1
9	5,581.500	83.37			13.39	V	178.6	1

Rg	Frequency [MHz]	PK+ Level [dBµV/m]	PK+ Limit [dBµV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
9	5,459.500	50.44	74.00	23.56	13.28	V	176.2	1
9	5,460.000	49.48	74.00	24.52	13.28	V	176.2	1
9	5,580.000	97.91			13.39	V	176.2	1

REMARKS:

4. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Limit value – Emission level .
2. 5580MHz: Fundamental frequency.
3. #: Out of restricted band.

CHANNEL	TX Channel 140	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

Rg	Frequency [MHz]	PK+ Level [dBµV/m]	PK+ Limit [dBµV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
10	5,702.000	103.42			13.99	H	298.2	1
10	5,725.000	62.47	68.20	5.73	14.01	H	298.2	1
10	5,725.500	62.73	68.20	5.47	14.01	H	298.2	1

Rg	Frequency [MHz]	PK+ Level [dBµV/m]	PK+ Limit [dBµV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
10	5,702.000	100.17			13.99	V	146.3	1
10	5,725.000	60.81	68.20	7.39	14.01	V	146.3	1
10	5,734.000	56.75	68.20	11.45	14.02	V	146.3	1

REMARKS:

4. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Limit value – Emission level .
2. 5700MHz: Fundamental frequency.
3. #: Out of restricted band.

802.11n (40MHz)

CHANNEL	TX Channel 102	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

Rg	Frequency [MHz]	AVG Level [dBµV/m]	AVG Limit [dBµV/m]	AVG Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	5,458.000	38.81	54.00	15.19	13.28	H	359.1	1
5	5,460.000	38.89	54.00	15.11	13.28	H	355.1	2
5	5,507.500	86.97			13.31	H	289.8	1

Rg	Frequency [MHz]	PK+ Level [dBµV/m]	PK+ Limit [dBµV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	5,456.500	60.56	74.00	13.44	13.28	H	355.8	2
5	5,460.000	59.55	74.00	14.45	13.28	H	359.1	1
5	5,515.000	101.84			13.33	H	355.8	2

Rg	Frequency [MHz]	AVG Level [dBµV/m]	AVG Limit [dBµV/m]	AVG Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	5,459.500	37.25	54.00	16.75	13.28	V	169	1
5	5,460.000	37.31	54.00	16.69	13.28	V	169	1
5	5,507.500	82.41			13.31	V	169	1

Rg	Frequency [MHz]	PK+ Level [dBµV/m]	PK+ Limit [dBµV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	5,454.500	53.55	74.00	20.45	13.28	V	190.6	1
5	5,460.000	51.34	74.00	22.66	13.28	V	359.2	1
5	5,515.500	97.60			13.33	V	190.6	1

REMARKS:

4. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Limit value – Emission level .
2. 5510MHz: Fundamental frequency.
3. #: Out of restricted band.

CHANNEL	TX Channel 110	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

Rg	Frequency [MHz]	AVG Level [dBµV/m]	AVG Limit [dBµV/m]	AVG Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
6	5,457.500	37.48	54.00	16.52	13.28	H	334	1
6	5,460.000	37.55	54.00	16.45	13.28	H	334	1
6	5,552.500	86.46			13.36	H	251.5	1

Rg	Frequency [MHz]	PK+ Level [dBµV/m]	PK+ Limit [dBµV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
6	5,456.500	52.52	74.00	21.48	13.28	H	280.2	1
6	5,460.000	51.71	74.00	22.29	13.28	H	280.2	1
6	5,547.000	101.76			13.36	H	280.2	1

Rg	Frequency [MHz]	AVG Level [dBµV/m]	AVG Limit [dBµV/m]	AVG Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
6	5,459.500	36.00	54.00	18.00	13.28	V	160.6	1
6	5,460.000	35.88	54.00	18.12	13.28	V	160.6	1
6	5,548.000	82.34			13.35	V	160.6	1

Rg	Frequency [MHz]	PK+ Level [dBµV/m]	PK+ Limit [dBµV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
6	5,458.500	49.97	74.00	24.03	13.28	V	157.1	1
6	5,460.000	49.32	74.00	24.68	13.28	V	157.1	1
6	5,555.500	97.97			13.36	V	157.1	1

REMARKS:

4. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Limit value – Emission level .
2. 5500MHz: Fundamental frequency.
3. #: Out of restricted band.

CHANNEL	TX Channel 134	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

Rg	Frequency [MHz]	PK+ Level [dBµV/m]	PK+ Limit [dBµV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
7	5,672.500	101.39			13.85	H	293.4	1
7	5,725.000	57.87	68.20	10.33	14.01	H	293.4	1
7	5,725.500	57.47	68.20	10.73	14.01	H	293.4	1

Rg	Frequency [MHz]	PK+ Level [dBµV/m]	PK+ Limit [dBµV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
7	5,675.500	97.84			13.86	V	212.1	1
7	5,725.000	56.06	68.20	12.14	14.01	V	140.3	1
7	5,726.500	54.67	68.20	13.53	14.01	V	140.3	1

REMARKS:

4. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Limit value – Emission level .
2. 5670MHz: Fundamental frequency.
3. #: Out of restricted band.

802.11ac (20MHz)

CHANNEL	TX Channel 100	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

Rg	Frequency [MHz]	AVG Level [dBµV/m]	AVG Limit [dBµV/m]	AVG Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
8	5,456.000	38.47	54.00	15.53	13.28	H	271.9	1
8	5,460.000	38.64	54.00	15.36	13.28	H	355	2
8	5,499.000	90.33			13.30	H	355	2

Rg	Frequency [MHz]	PK+ Level [dBµV/m]	PK+ Limit [dBµV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
8	5,457.500	55.02	74.00	18.98	13.28	H	293.3	1
8	5,460.000	56.10	74.00	17.90	13.28	H	293.3	1
8	5,499.000	103.61			13.30	H	355	2

Rg	Frequency [MHz]	AVG Level [dBµV/m]	AVG Limit [dBµV/m]	AVG Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
8	5,458.000	36.73	54.00	17.27	13.28	V	173.8	1
8	5,460.000	36.79	54.00	17.21	13.28	V	173.8	1
8	5,498.000	85.58			13.30	V	173.8	1

Rg	Frequency [MHz]	PK+ Level [dBµV/m]	PK+ Limit [dBµV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
8	5,450.000	50.36	74.00	23.64	13.28	V	359	1
8	5,460.000	49.88	74.00	24.12	13.28	V	271	2
8	5,497.000	101.37			13.30	V	196.6	1

REMARKS:

4. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Limit value – Emission level .
2. 5500MHz: Fundamental frequency.
3. #: Out of restricted band.

CHANNEL	TX Channel 116	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

Rg	Frequency [MHz]	AVG Level [dBµV/m]	AVG Limit [dBµV/m]	AVG Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
9	5,459.500	37.33	54.00	16.67	13.28	H	285	1
9	5,460.000	37.32	54.00	16.68	13.28	H	285	1
9	5,581.000	90.84			13.39	H	285	1

Rg	Frequency [MHz]	PK+ Level [dBµV/m]	PK+ Limit [dBµV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
9	5,453.000	51.16	74.00	22.84	13.28	H	280.2	1
9	5,460.000	49.98	74.00	24.02	13.28	H	66.2	1
9	5,578.500	102.91			13.39	H	280.2	1

Rg	Frequency [MHz]	AVG Level [dBµV/m]	AVG Limit [dBµV/m]	AVG Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
9	5,446.000	35.63	54.00	18.37	13.28	V	169.4	2
9	5,460.000	35.50	54.00	18.51	13.28	V	359	1
9	5,579.000	88.39			13.39	V	160.6	1

Rg	Frequency [MHz]	PK+ Level [dBµV/m]	PK+ Limit [dBµV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
9	5,453.000	49.85	74.00	24.15	13.28	V	359.1	1
9	5,460.000	48.76	74.00	25.24	13.28	V	359	2
9	5,580.500	100.19			13.39	V	139.1	1

REMARKS:

4. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Limit value – Emission level .
2. 5580MHz: Fundamental frequency.
3. #: Out of restricted band.

CHANNEL	TX Channel 140	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

Rg	Frequency [MHz]	PK+ Level [dBµV/m]	PK+ Limit [dBµV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
10	5,698.500	102.46			13.98	H	316.1	1
10	5,725.000	57.53	68.20	10.67	14.01	H	359	1
10	5,725.500	58.31	68.20	9.89	14.01	H	316.1	1

Rg	Frequency [MHz]	PK+ Level [dBµV/m]	PK+ Limit [dBµV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
10	5,701.500	100.96			13.99	V	155.8	1
10	5,725.000	58.14	68.20	10.06	14.01	V	155.8	1
10	5,728.000	59.76	68.20	8.44	14.01	V	155.8	1

REMARKS:

4. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Limit value – Emission level .
   2. 5700MHz: Fundamental frequency.
   3. #: Out of restricted band.

802.11ac (40MHz)

CHANNEL	TX Channel 102	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

Rg	Frequency [MHz]	AVG Level [dBµV/m]	AVG Limit [dBµV/m]	AVG Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	5,459.500	38.50	54.00	15.50	13.28	H	287.4	1
5	5,460.000	38.57	54.00	15.43	13.28	H	287.4	1
5	5,508.000	87.55			13.32	H	287.4	1

Rg	Frequency [MHz]	PK+ Level [dBµV/m]	PK+ Limit [dBµV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	5,457.000	55.89	74.00	18.11	13.28	H	1	1
5	5,460.000	54.67	74.00	19.33	13.28	H	294.6	1
5	5,515.000	102.68			13.33	H	294.6	1

Rg	Frequency [MHz]	AVG Level [dBµV/m]	AVG Limit [dBµV/m]	AVG Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	5,456.000	36.78	54.00	17.22	13.28	V	143.9	1
5	5,460.000	36.59	54.00	17.41	13.28	V	218	1
5	5,507.500	84.07			13.31	V	143.9	1

Rg	Frequency [MHz]	PK+ Level [dBµV/m]	PK+ Limit [dBµV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	5,457.000	51.80	74.00	22.20	13.28	V	167.8	1
5	5,460.000	50.25	74.00	23.75	13.28	V	167.8	1
5	5,515.500	95.15			13.33	V	216.1	2

REMARKS:

2. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Limit value – Emission level .
   2. 5510MHz: Fundamental frequency.
   3. #: Out of restricted band.

CHANNEL	TX Channel 110	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

Rg	Frequency [MHz]	AVG Level [dBµV/m]	AVG Limit [dBµV/m]	AVG Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
6	5,459.500	37.72	54.00	16.28	13.28	H	304.1	1
6	5,460.000	37.77	54.00	16.23	13.28	H	304.1	1
6	5,552.000	86.35			13.36	H	304.1	1

Rg	Frequency [MHz]	PK+ Level [dBµV/m]	PK+ Limit [dBµV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
6	5,439.500	52.08	74.00	21.92	13.28	H	355	2
6	5,460.000	50.59	74.00	23.41	13.28	H	344.6	1
6	5,548.500	101.96			13.35	H	257.5	1

Rg	Frequency [MHz]	AVG Level [dBµV/m]	AVG Limit [dBµV/m]	AVG Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
6	5,459.000	35.89	54.00	18.11	13.28	V	121.2	1
6	5,460.000	35.77	54.00	18.23	13.28	V	121.2	1
6	5,559.000	82.54			13.36	V	121.2	1

Rg	Frequency [MHz]	PK+ Level [dBµV/m]	PK+ Limit [dBµV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
6	5,437.000	50.89	74.00	23.11	13.28	V	359.1	1
6	5,460.000	49.27	74.00	24.73	13.28	V	0.9	2
6	5,554.000	97.32			13.36	V	146.3	1

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Limit value - Emission level .
2. 5500MHz: Fundamental frequency.
3. #: Out of restricted band.

CHANNEL	TX Channel 134	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

Rg	Frequency [MHz]	PK+ Level [dBµV/m]	PK+ Limit [dBµV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
7	5,672.000	100.81			13.84	H	256.3	1
7	5,725.000	50.59	68.20	17.61	14.01	H	256.3	1
7	5,736.500	52.58	68.20	15.62	14.02	H	256.3	1

Rg	Frequency [MHz]	PK+ Level [dBµV/m]	PK+ Limit [dBµV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
7	5,673.500	98.68			13.85	V	178.6	1
7	5,725.000	49.04	68.20	19.16	14.01	V	1	1
7	5,748.500	50.61	68.20	17.59	14.03	V	0.9	2

REMARKS:

3. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Limit value – Emission level .
   2. 5670MHz: Fundamental frequency.
   3. #: Out of restricted band.

802.11ac (80MHz)

CHANNEL	TX Channel 106	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

Rg	Frequency [MHz]	AVG Level [dBµV/m]	AVG Limit [dBµV/m]	AVG Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
3	5,458.000	41.05	54.00	12.95	13.28	H	302.9	1
3	5,460.000	40.27	54.00	13.73	13.28	H	302.9	1
3	5,532.500	81.34			13.36	H	302.9	1

Rg	Frequency [MHz]	PK+ Level [dBµV/m]	PK+ Limit [dBµV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
3	5,459.000	64.10	74.00	9.90	13.28	H	295.7	1
3	5,460.000	61.16	74.00	12.84	13.28	H	295.7	1
3	5,533.000	99.40			13.36	H	295.7	1

Rg	Frequency [MHz]	AVG Level [dBµV/m]	AVG Limit [dBµV/m]	AVG Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
3	5,458.000	38.10	54.00	15.90	13.28	V	164.2	1
3	5,460.000	37.45	54.00	16.55	13.28	V	164.2	1
3	5,527.500	78.30			13.35	V	164.2	1

Rg	Frequency [MHz]	PK+ Level [dBµV/m]	PK+ Limit [dBµV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
3	5,452.000	58.68	74.00	15.32	13.28	V	172.6	1
3	5,460.000	54.03	74.00	19.97	13.28	V	172.6	1
3	5,503.500	93.90			13.31	V	172.6	1

REMARKS:

4. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Limit value – Emission level .
   2. 5530MHz: Fundamental frequency.
   3. #: Out of restricted band.

CHANNEL	TX Channel 122	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

Rg	Frequency [MHz]	PK+ Level [dBµV/m]	PK+ Limit [dBµV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,607.500	98.03			13.50	H	304.1	1
4	5,725.000	51.79	68.20	16.41	14.01	H	304.1	1
4	5,726.000	54.96	68.20	13.24	14.01	H	359.1	1

Rg	Frequency [MHz]	PK+ Level [dBµV/m]	PK+ Limit [dBµV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,598.000	95.18			13.44	V	177.4	1
4	5,725.000	49.66	68.20	18.54	14.01	V	0.9	2
4	5,740.000	50.78	68.20	17.42	14.02	V	359	1

REMARKS:

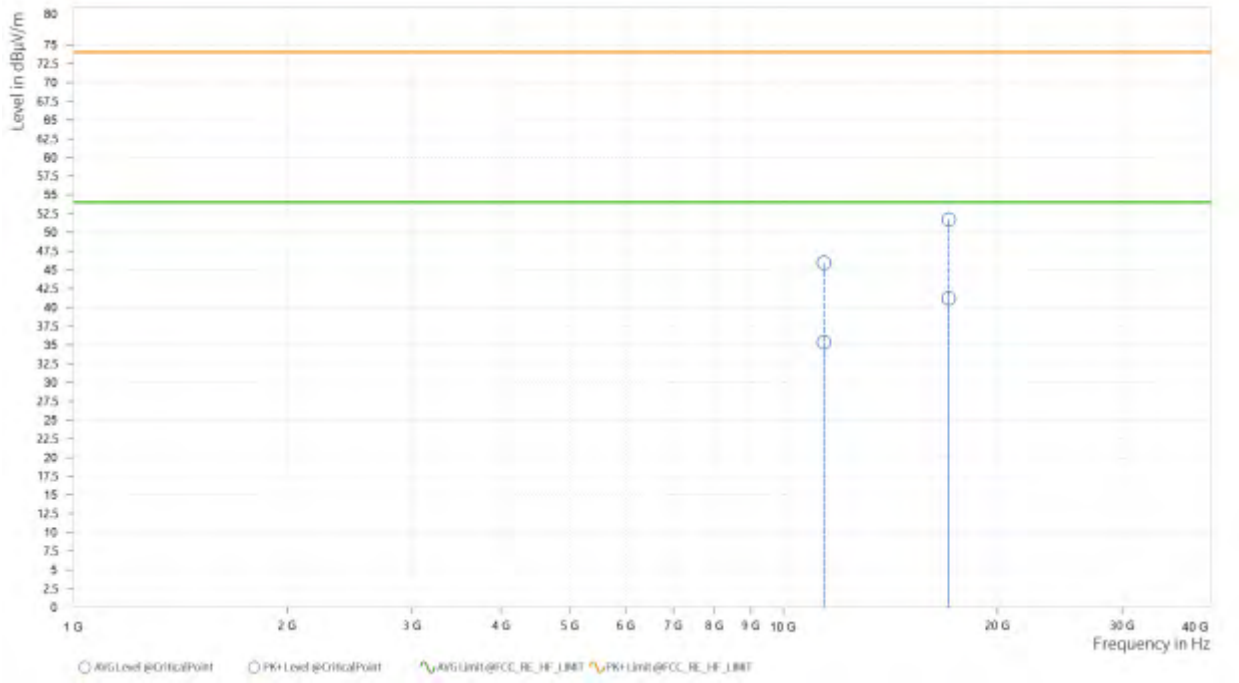
1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Limit value - Emission level .
2. 5610MHz: Fundamental frequency.
3. #: Out of restricted band.

802.11n (20MHz)
Worst case harmonic:

CHANNEL	TX Channel 140	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

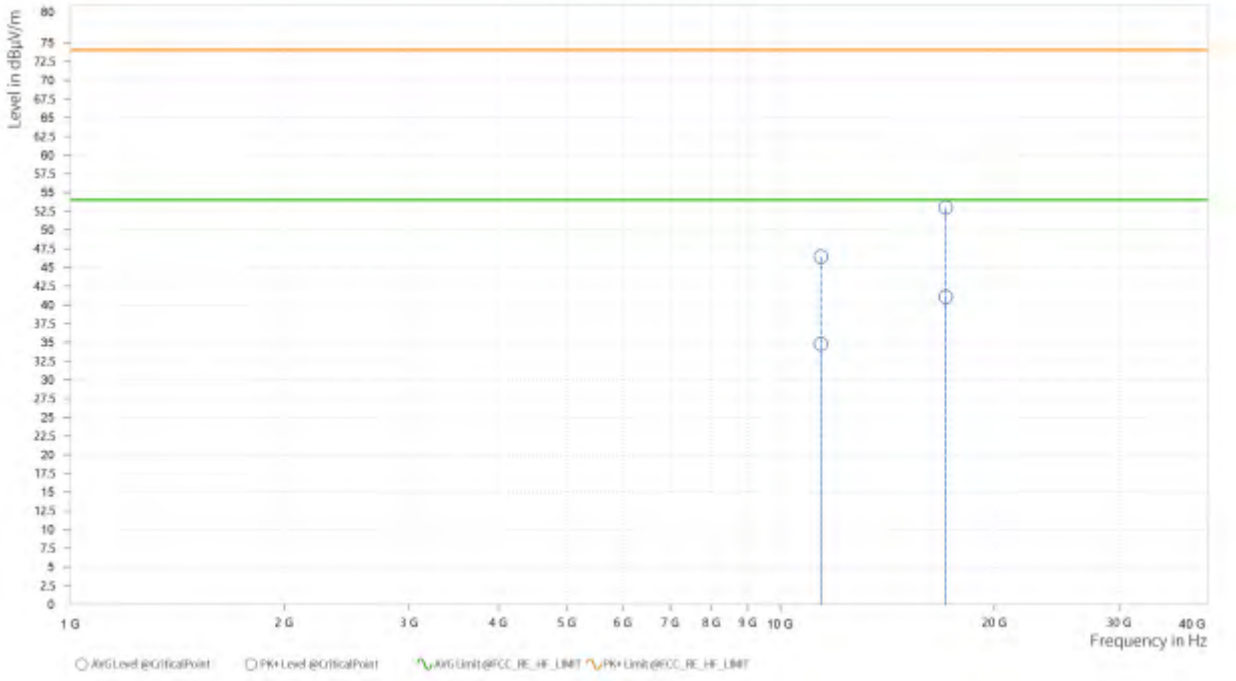
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

Rg	Frequency [MHz]	PK+ Level [dBµV/m]	PK+ Limit [dBµV/m]	PK+ Margin [dB]	AVG Level [dBµV/m]	AVG Limit [dBµV/m]	AVG Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	11,400.000	45.96	74.00	28.04	35.37	54.00	18.63	7.91	H	267.4	2
2	17,100.000	51.72	74.00	22.28	41.19	54.00	12.81	15.67	H	267.4	2



ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

Rg	Frequency [MHz]	PK+ Level [dBµV/m]	PK+ Limit [dBµV/m]	PK+ Margin [dB]	AVG Level [dBµV/m]	AVG Limit [dBµV/m]	AVG Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	11,400.000	46.42	74.00	27.58	34.77	54.00	19.23	7.91	V	359	2
2	17,100.000	53.02	74.00	20.98	41.08	54.00	12.92	15.67	V	257.4	1



REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Limit value - Emission level .
2. 5530MHz: Fundamental frequency.

Band 4:

802.11a

CHANNEL	TX Channel 149	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

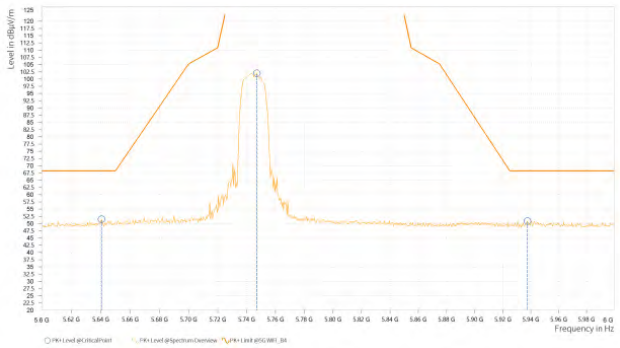
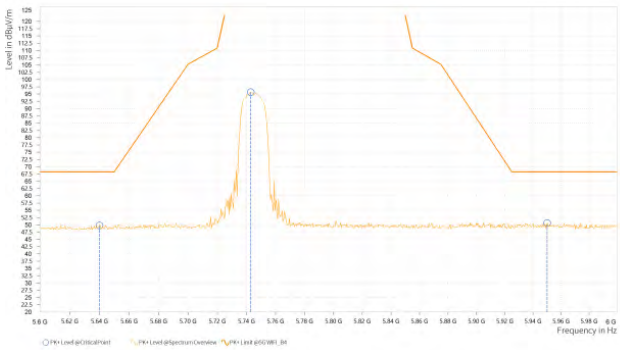
Rg	Frequency [MHz]	PK+ Level [dBµV/m]	PK+ Limit [dBµV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
12	5,640.500	51.47	68.20	16.73	13.68	H	302.9	1
12	5,747.000	101.98			14.03	H	302.9	1
12	5,937.500	50.84	68.20	17.36	14.48	H	286.6	2

Rg	Frequency [MHz]	PK+ Level [dBµV/m]	PK+ Limit [dBµV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
12	5,640.000	49.77	68.20	18.43	13.68	V	8.8	2
12	5,743.000	95.69			14.03	V	357.9	1
12	5,950.000	50.60	68.20	17.60	14.50	V	291	1

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Limit value - Emission level .
2. 5745MHz: Fundamental frequency.

CH 149

Horizontal	Vertical
	

CHANNEL	TX Channel 157	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

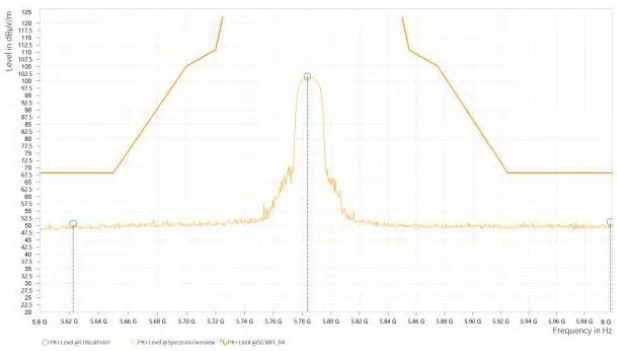
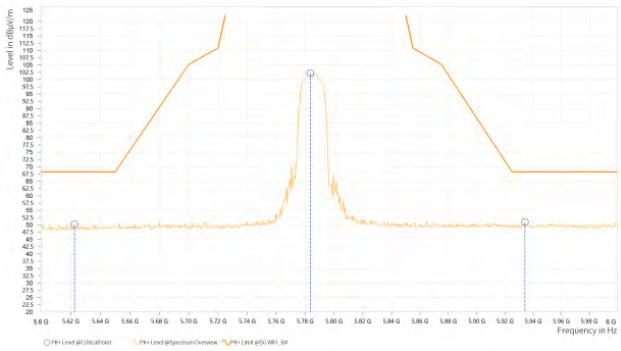
Rg	Frequency [MHz]	PK+ Level [dBµV/m]	PK+ Limit [dBµV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
12	5,622.500	50.67	68.20	17.53	13.58	H	297	1
12	5,783.500	101.60			14.15	H	297	1
12	5,998.500	51.23	68.20	16.97	14.67	H	1	1

Rg	Frequency [MHz]	PK+ Level [dBµV/m]	PK+ Limit [dBµV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
12	5,622.500	50.15	68.20	18.05	13.58	V	146.3	1
12	5,783.500	102.18			14.15	V	146.3	1
12	5,934.000	50.99	68.20	17.21	14.48	V	357.8	1

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Limit value - Emission level .
2. 5785MHz: Fundamental frequency.

CH 157

Horizontal	Vertical
	

CHANNEL	TX Channel 165	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

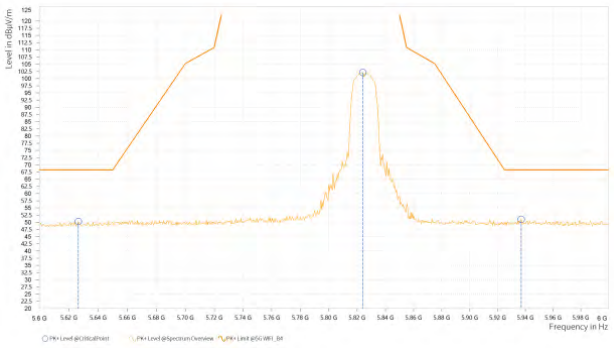
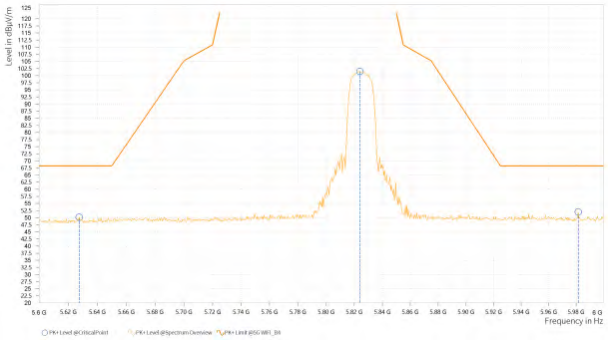
Rg	Frequency [MHz]	PK+ Level [dBµV/m]	PK+ Limit [dBµV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
12	5,626.500	50.29	68.20	17.91	13.60	H	359	2
12	5,824.000	102.13			14.25	H	295.8	1
12	5,937.000	51.02	68.20	17.18	14.48	H	295.8	1

Rg	Frequency [MHz]	PK+ Level [dBµV/m]	PK+ Limit [dBµV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
12	5,627.500	50.17	68.20	18.03	13.61	V	146.3	1
12	5,824.000	101.46			14.25	V	146.3	1
12	5,981.500	52.02	68.20	16.18	14.60	V	1	1

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Limit value - Emission level .
2. 5825MHz: Fundamental frequency.

CH 165

Horizontal	Vertical
	

802.11n (20MHz)

CHANNEL	TX Channel 149	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

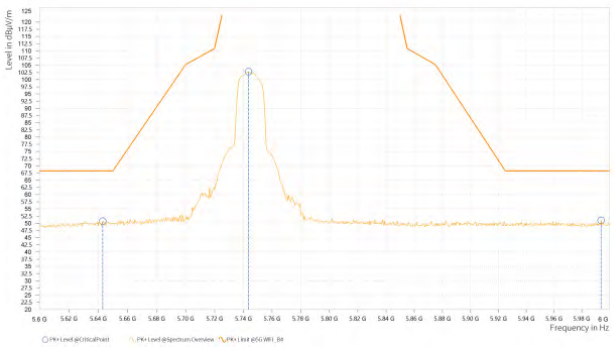
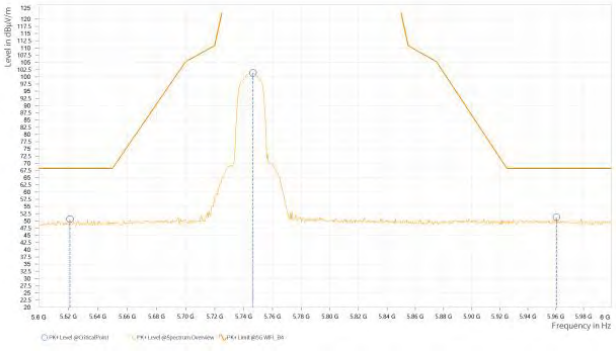
Rg	Frequency [MHz]	PK+ Level [dBµV/m]	PK+ Limit [dBµV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
12	5,643.000	50.76	68.20	17.44	13.70	H	1	1
12	5,743.500	102.76			14.03	H	299.3	1
12	5,994.000	51.02	68.20	17.18	14.64	H	4.9	1

Rg	Frequency [MHz]	PK+ Level [dBµV/m]	PK+ Limit [dBµV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
12	5,621.000	50.62	68.20	17.58	13.57	V	222.9	1
12	5,746.500	101.39			14.03	V	146.3	1
12	5,960.500	51.27	68.20	16.93	14.53	V	359	2

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Limit value - Emission level .
2. 5745MHz: Fundamental frequency.

CH 149

Horizontal	Vertical
	

CHANNEL	TX Channel 157	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

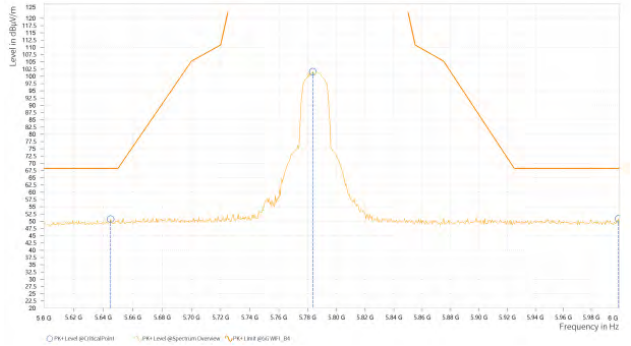
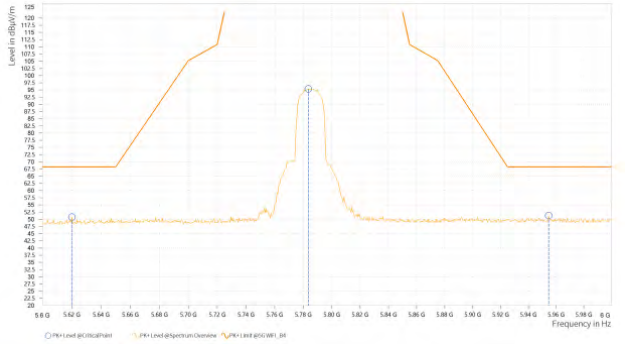
Rg	Frequency [MHz]	PK+ Level [dBµV/m]	PK+ Limit [dBµV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
12	5,645.000	50.75	68.20	17.45	13.71	H	1	1
12	5,783.500	101.60			14.15	H	300.6	1
12	5,999.500	50.84	68.20	17.36	14.68	H	58.2	2

Rg	Frequency [MHz]	PK+ Level [dBµV/m]	PK+ Limit [dBµV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
12	5,620.000	50.79	68.20	17.41	13.57	V	355.4	1
12	5,783.500	95.36			14.15	V	359.1	1
12	5,954.500	51.25	68.20	16.95	14.51	V	4.9	1

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Limit value - Emission level .
2. 5785MHz: Fundamental frequency.

CH 157

Horizontal	Vertical
	

CHANNEL	TX Channel 165	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

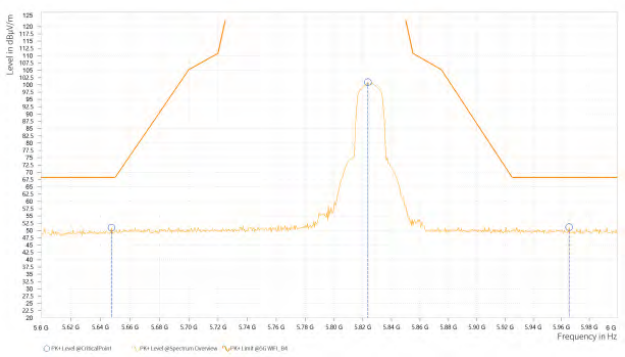
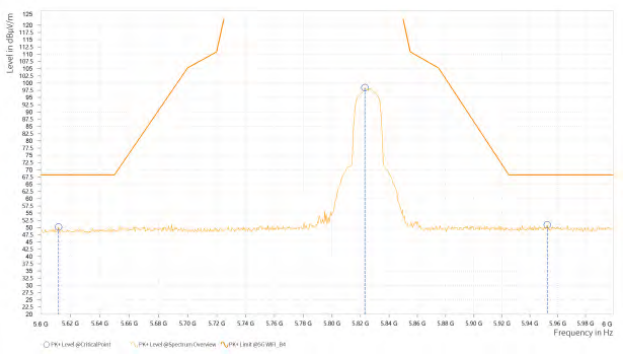
Rg	Frequency [MHz]	PK+ Level [dBµV/m]	PK+ Limit [dBµV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
12	5,647.500	50.99	68.20	17.21	13.72	H	299.4	1
12	5,823.500	100.92			14.25	H	299.4	1
12	5,965.500	51.14	68.20	17.06	14.55	H	222.9	1

Rg	Frequency [MHz]	PK+ Level [dBµV/m]	PK+ Limit [dBµV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
12	5,612.000	50.19	68.20	18.01	13.52	V	359.1	1
12	5,823.000	98.41			14.25	V	175	1
12	5,952.500	50.96	68.20	17.24	14.51	V	134.8	2

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Limit value - Emission level .
2. 5825MHz: Fundamental frequency.

CH 165

Horizontal	Vertical
	

802.11n (40MHz)

CHANNEL	TX Channel 151	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

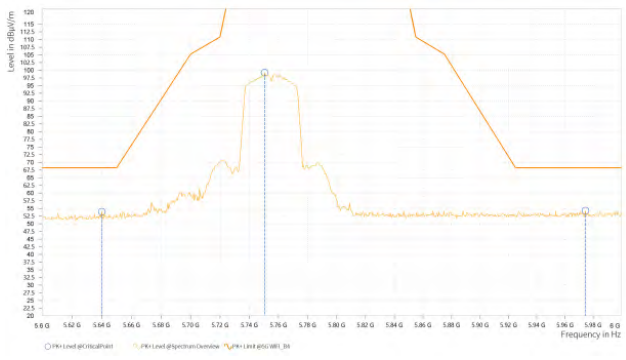
Rg	Frequency [MHz]	PK+ Level [dBµV/m]	PK+ Limit [dBµV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
9	5,640.000	53.91	68.20	14.29	13.68	H	287.8	2
9	5,750.500	99.20			14.03	H	357.2	1
9	5,974.500	54.25	68.20	13.95	14.58	H	42.7	2

Rg	Frequency [MHz]	PK+ Level [dBµV/m]	PK+ Limit [dBµV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
9	5,634.000	53.25	68.20	14.95	13.65	V	359.1	1
9	5,756.500	97.07			14.05	V	173.8	1
9	5,987.000	55.10	68.20	13.10	14.62	V	0.9	2

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Limit value - Emission level .
2. 5750MHz: Fundamental frequency.

CH 151

Horizontal	Vertical
	

CHANNEL	TX Channel 159	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

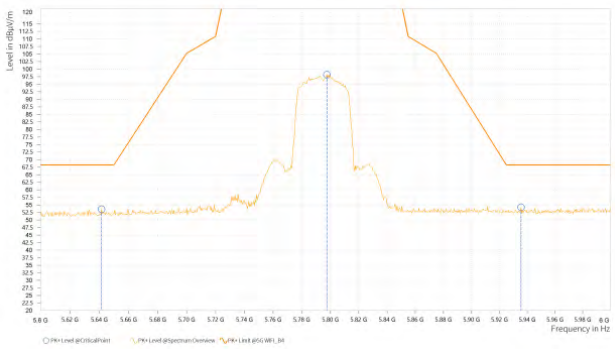
Rg	Frequency [MHz]	PK+ Level [dBµV/m]	PK+ Limit [dBµV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
9	5,641.500	53.59	68.20	14.61	13.69	H	355.7	2
9	5,797.500	98.16			14.20	H	359.1	1
9	5,935.500	54.26	68.20	13.94	14.48	H	359.1	1

Rg	Frequency [MHz]	PK+ Level [dBµV/m]	PK+ Limit [dBµV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
9	5,606.500	52.94	68.20	15.26	13.49	V	132.4	2
9	5,792.000	98.49			14.18	V	153.5	1
9	5,967.000	54.40	68.20	13.80	14.55	V	1	1

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Limit value - Emission level .
2. 5795MHz: Fundamental frequency.

CH 159

Horizontal	Vertical
	

802.11ac (20MHz)

CHANNEL	TX Channel 149	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

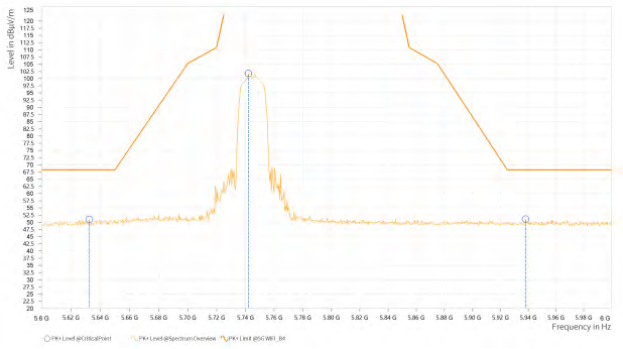
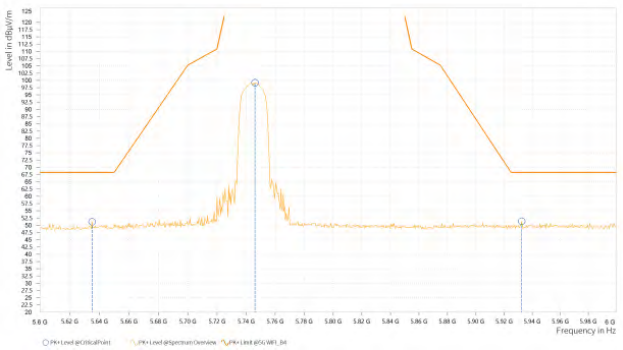
Rg	Frequency [MHz]	PK+ Level [dBµV/m]	PK+ Limit [dBµV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
12	5,632.500	51.03	68.20	17.17	13.64	H	300.5	1
12	5,742.000	101.77			14.03	H	300.5	1
12	5,938.000	51.07	68.20	17.13	14.48	H	148.6	1

Rg	Frequency [MHz]	PK+ Level [dBµV/m]	PK+ Limit [dBµV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
12	5,635.000	51.23	68.20	16.97	13.65	V	163	1
12	5,746.000	99.18			14.03	V	163	1
12	5,932.500	51.36	68.20	16.84	14.48	V	356.2	2

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Limit value - Emission level .
2. 5745MHz: Fundamental frequency.

CH 149

Horizontal	Vertical
	

CHANNEL	TX Channel 157	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

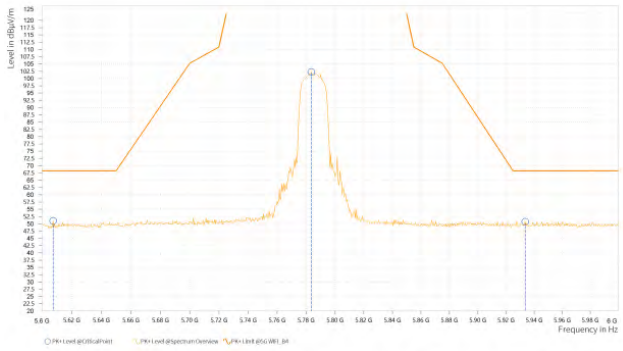
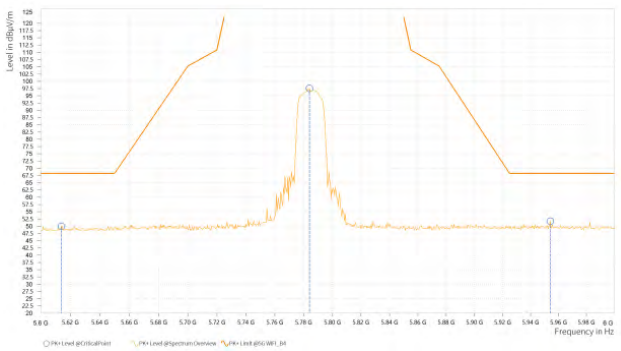
Rg	Frequency [MHz]	PK+ Level [dBµV/m]	PK+ Limit [dBµV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
12	5,607.500	51.05	68.20	17.15	13.50	H	298.1	1
12	5,783.500	102.21			14.15	H	298.1	1
12	5,933.500	50.76	68.20	17.44	14.48	H	97.7	2

Rg	Frequency [MHz]	PK+ Level [dBµV/m]	PK+ Limit [dBµV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
12	5,614.000	49.99	68.20	18.21	13.53	V	258.6	1
12	5,784.000	97.55			14.15	V	359.1	1
12	5,954.000	51.75	68.20	16.45	14.51	V	0.9	2

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Limit value - Emission level .
2. 5785MHz: Fundamental frequency.

CH 157

Horizontal	Vertical
	

CHANNEL	TX Channel 165	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

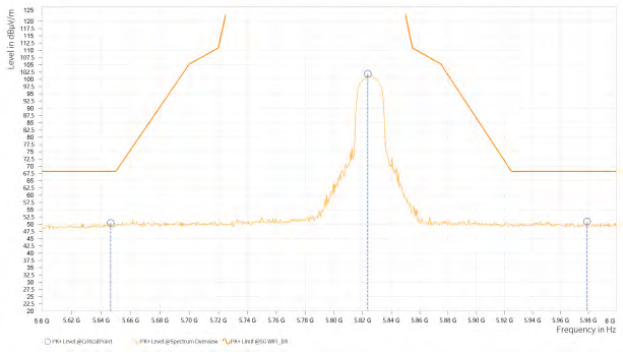
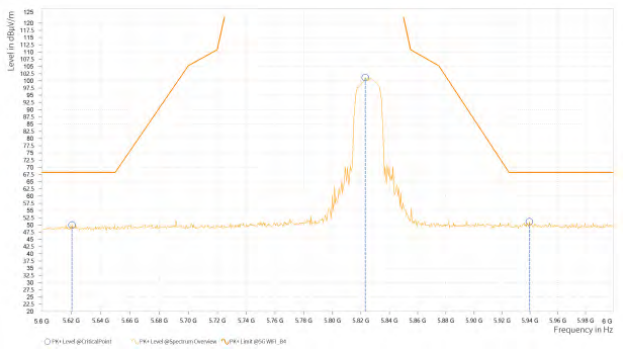
Rg	Frequency [MHz]	PK+ Level [dBµV/m]	PK+ Limit [dBµV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
12	5,646.500	50.42	68.20	17.78	13.72	H	300.5	1
12	5,823.500	101.94			14.25	H	357.4	1
12	5,979.000	50.90	68.20	17.30	14.59	H	147.5	1

Rg	Frequency [MHz]	PK+ Level [dBµV/m]	PK+ Limit [dBµV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
12	5,620.500	49.97	68.20	18.23	13.57	V	148.7	1
12	5,823.000	101.11			14.25	V	148.7	1
12	5,939.500	51.13	68.20	17.07	14.48	V	71	1

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Limit value - Emission level .
2. 5825MHz: Fundamental frequency.

CH 165

Horizontal	Vertical
	

802.11ac (40MHz)

CHANNEL	TX Channel 151	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

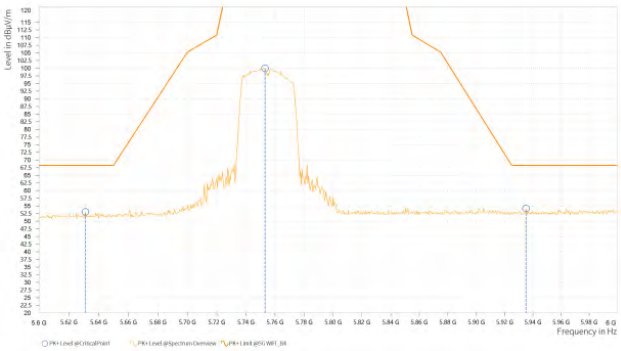
Rg	Frequency [MHz]	PK+ Level [dBµV/m]	PK+ Limit [dBµV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
9	5,640.000	53.25	68.20	14.95	13.68	H	309	1
9	5,752.500	99.09			14.04	H	309	1
9	5,991.500	54.65	68.20	13.55	14.63	H	152.3	1

Rg	Frequency [MHz]	PK+ Level [dBµV/m]	PK+ Limit [dBµV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
9	5,631.000	53.01	68.20	15.19	13.63	V	309	1
9	5,753.000	99.96			14.04	V	152.3	1
9	5,935.000	54.11	68.20	14.09	14.48	V	359.1	1

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Limit value - Emission level .
2. 5755MHz: Fundamental frequency.

CH 151

Horizontal	Vertical
	

CHANNEL	TX Channel 159	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

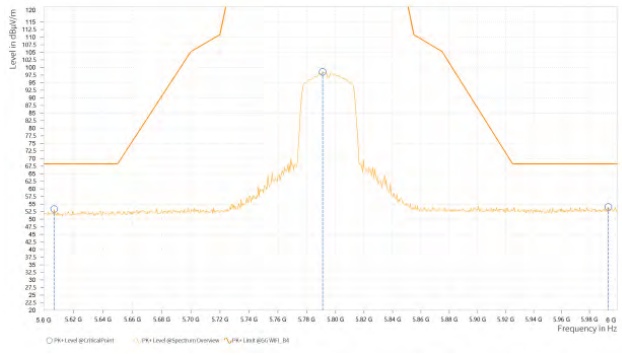
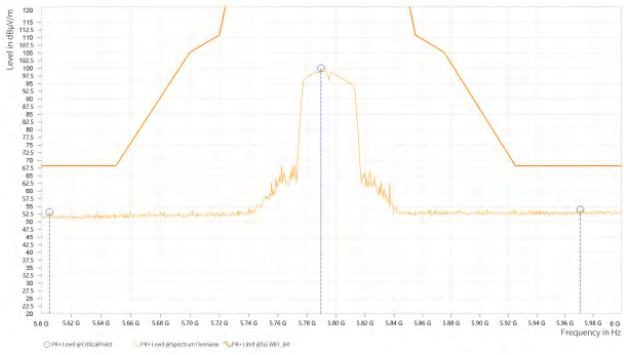
Rg	Frequency [MHz]	PK+ Level [dBµV/m]	PK+ Limit [dBµV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
9	5,607.000	53.33	68.20	14.87	13.49	H	128.9	2
9	5,791.000	98.57			14.18	H	1	1
9	5,993.500	54.02	68.20	14.18	14.64	H	312.5	1

Rg	Frequency [MHz]	PK+ Level [dBµV/m]	PK+ Limit [dBµV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
9	5,605.500	53.13	68.20	15.07	13.49	V	49.9	2
9	5,789.500	100.08			14.17	V	152.3	1
9	5,971.000	53.97	68.20	14.23	14.56	V	2.1	2

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Limit value - Emission level .
2. 5795MHz: Fundamental frequency.

CH 159

Horizontal	Vertical
	

802.11ac (80MHz)

CHANNEL	TX Channel 155	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

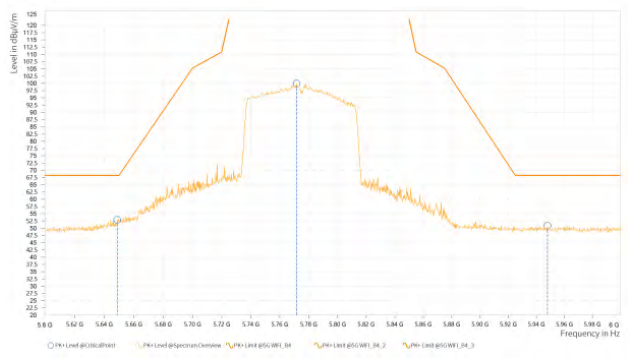
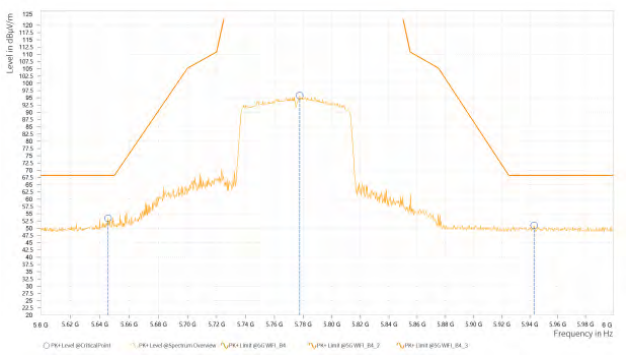
Rg	Frequency [MHz]	PK+ Level [dBµV/m]	PK+ Limit [dBµV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
6	5,648.750	52.92	68.20	15.28	13.73	H	355	2
7	5,771.563	99.95			14.10	H	288.6	1
8	5,947.875	50.85	68.20	17.35	14.49	H	359	2

Rg	Frequency [MHz]	PK+ Level [dBµV/m]	PK+ Limit [dBµV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
6	5,645.625	53.45	68.20	14.75	13.71	V	267.1	1
7	5,777.500	95.76			14.13	V	313.8	1
8	5,943.000	50.96	68.20	17.24	14.49	V	179.8	1

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Limit value - Emission level .
2. 5775MHz: Fundamental frequency.

CH 155

Horizontal	Vertical
	

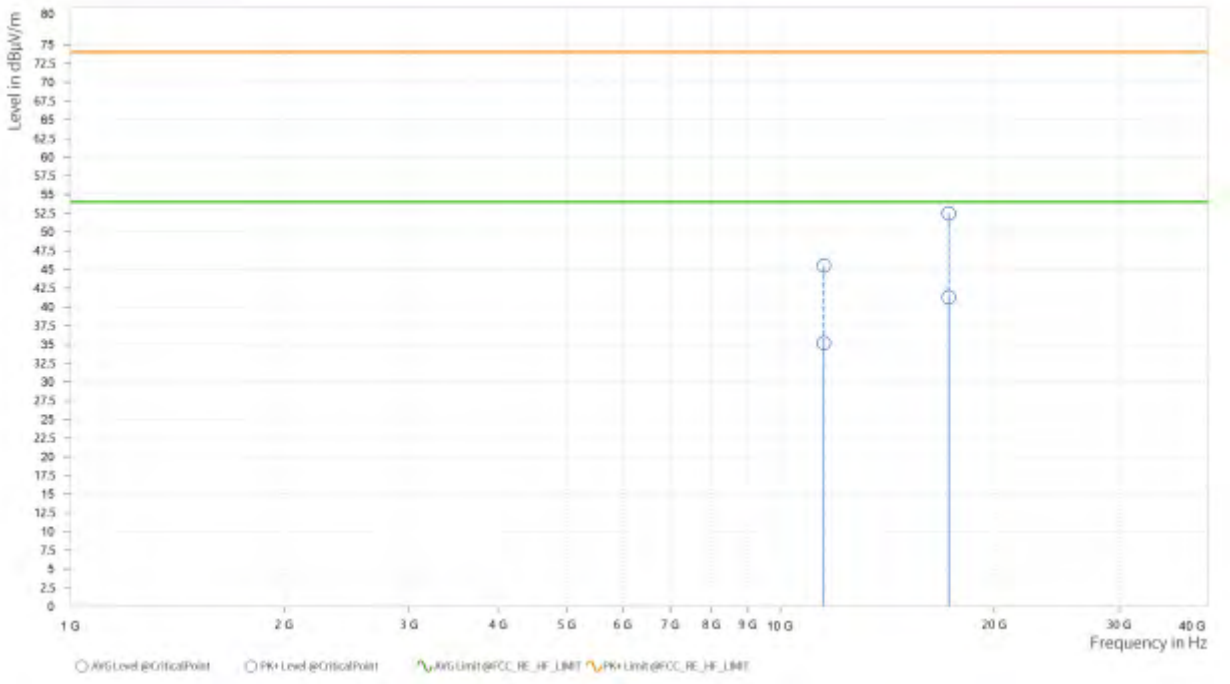
802.11n (40MHZ)

Worst case harmonic:

CHANNEL	TX Channel 151	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

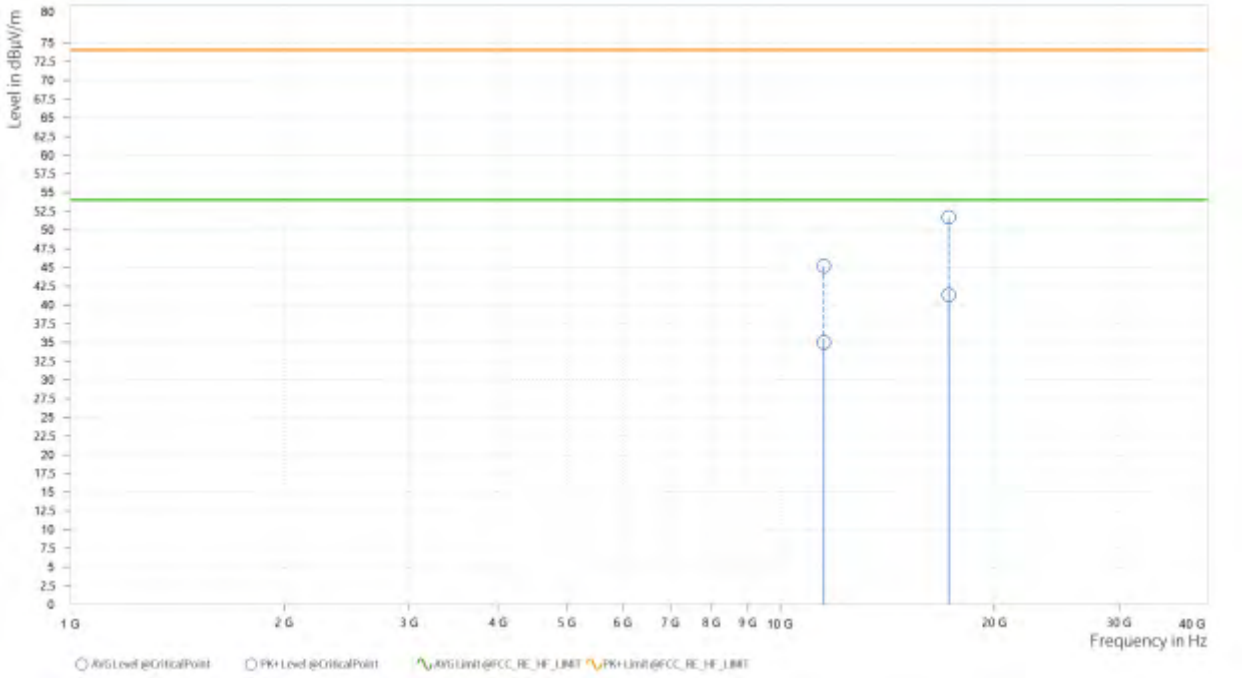
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

Rg	Frequency [MHz]	PK+ Level [dBµV/m]	PK+ Limit [dBµV/m]	PK+ Margin [dB]	AVG Level [dBµV/m]	AVG Limit [dBµV/m]	AVG Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	11,510.000	45.49	74.00	28.51	35.18	54.00	18.82	8.25	H	359	2
2	17,265.000	52.49	74.00	21.51	41.28	54.00	12.72	15.55	H	359	2



ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

Rg	Frequency [MHz]	PK+ Level [dBµV/m]	PK+ Limit [dBµV/m]	PK+ Margin [dB]	AVG Level [dBµV/m]	AVG Limit [dBµV/m]	AVG Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	11,510.000	45.16	74.00	28.84	34.98	54.00	19.02	8.25	V	359	2
2	17,265.000	51.69	74.00	22.31	41.33	54.00	12.67	15.55	V	359	2



REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Limit value - Emission level .
2. 5755MHz: Fundamental frequency.

3.2 CONDUCTED EMISSION MEASUREMENT

3.2.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY OF EMISSION (MHz)	CONDUCTED LIMIT (dBμV)	
	Quasi-peak	Average
0.15 ~ 0.5	66 to 56	56 to 46
0.5 ~ 5	56	46
5 ~ 30	60	50

NOTE: 1. The lower limit shall apply at the transition frequencies.

2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

3. All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

3.2.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESR3	102749	Feb.25,22	Feb.24,24
ELEKTRA test software	Rohde&Schwarz	ELEKTRA	NA	N/A	N/A
LISN network	Rohde&Schwarz	ENV216	102640	Feb.17,22	Feb.16,24
CABLE	Rohde&Schwarz	W61.01	N/A	Apr.28,23	Oct.27,23
CABLE	Rohde&Schwarz	W61.01	N/A	Oct.27,23	Apr.26,24
CABLE	Rohde&Schwarz	W601	N/A	Apr.28,23	Oct.27,23
CABLE	Rohde&Schwarz	W601	N/A	Oct.27,23	Apr.26,24

NOTE:

1. The test was performed in CE shielded room.
2. The calibration interval of the above test instruments is 6 months or 24 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.

3.2.3 TEST PROCEDURES

a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.

b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

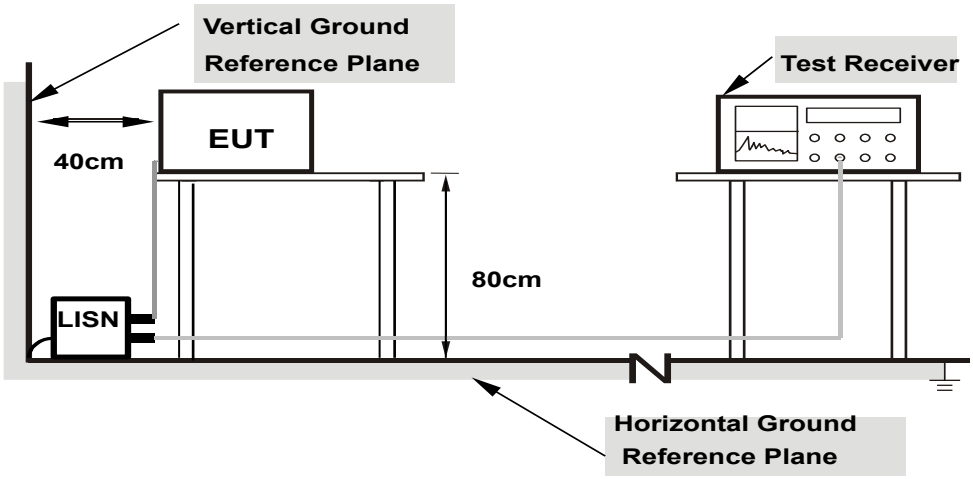
c. The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) were not recorded.

NOTE: All modes of operation were investigated, and the worst-case emissions are reported.

3.2.4 DEVIATION FROM TEST STANDARD

No deviation.

3.2.5 TEST SETUP



Note: 1.Support units were connected to second LISN.
2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

For the actual test configuration, please refer to the attached file (Test Setup Photo).

3.2.6 EUT OPERATING CONDITIONS

Same as 3.1.7.

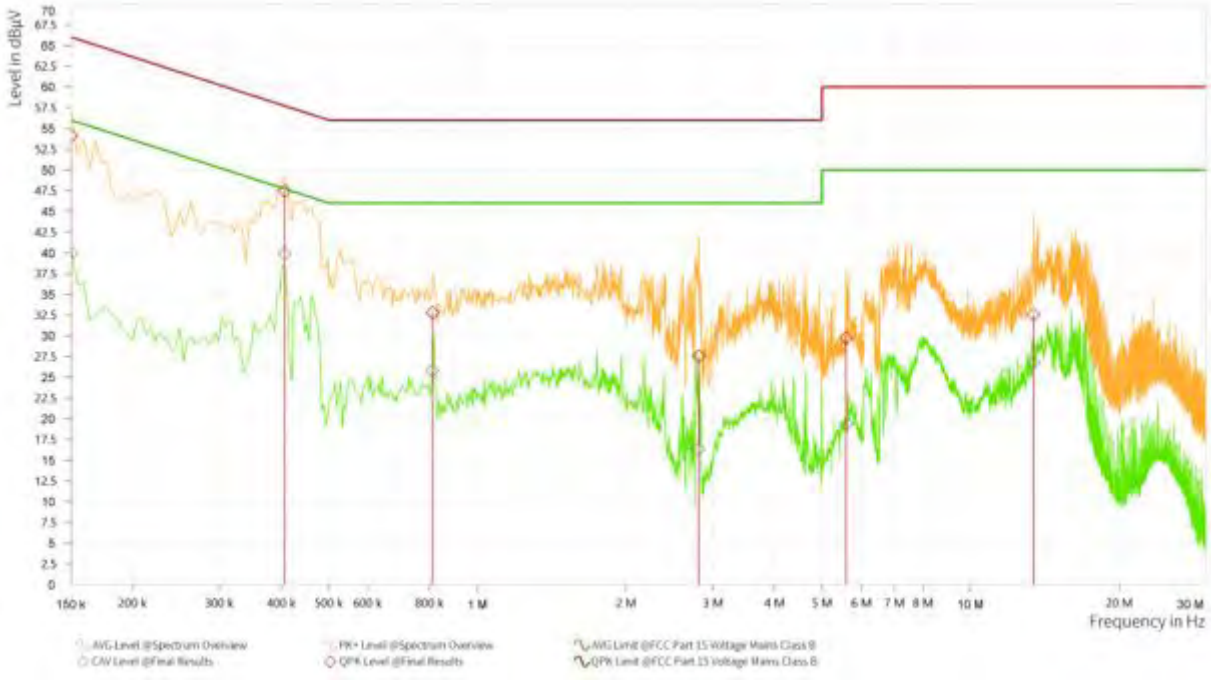
3.2.7 TEST RESULTS

CONDUCTED WORST-CASE DATA:

Frequency Range	150KHz ~ 30MHz	**Detector Function & Resolution Bandwidth**	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120Vac, 60Hz	**Environmental Conditions**	26deg. C, 51%RH
Tested By	Carl Xie		

Rg	Frequency [MHz]	QPK Level [dBuV]	QPK Limit [dBuV]	QPK Margin [dB]	CAV Level [dBuV]	CAV: AVG Limit [dBuV]	CAV Margin [dB]	Correction [dB]	Line	Meas. BW [kHz]
1	0.150	54.09	66.00	11.91	39.96	56.00	16.04	12.57	L1	9.000
1	0.407	47.46	57.72	10.26	39.95	47.72	7.77	11.77	L1	9.000
1	0.812	32.77	56.00	23.23	25.80	46.00	20.20	11.75	L1	9.000
1	2.810	27.54	56.00	28.46	16.35	46.00	29.65	11.77	L1	9.000
1	5.600	29.73	60.00	30.27	19.38	50.00	30.62	11.80	L1	9.000
1	13.425	32.51	60.00	27.49	26.75	50.00	23.25	11.84	L1	9.000

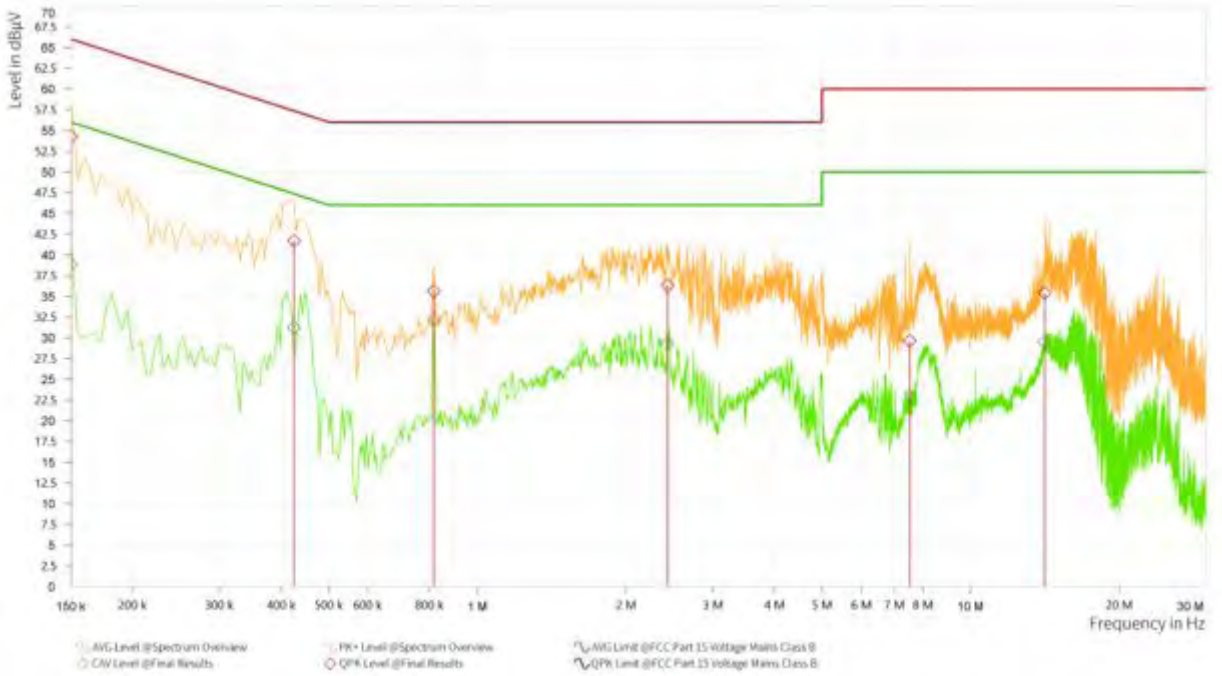
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Limit value - Emission level
5. Correction factor = Insertion loss + Cable loss
6. Emission Level = Correction Factor + Reading Value.



Frequency Range	150KHz ~ 30MHz	**Detector Function & Resolution Bandwidth**	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120Vac, 60Hz	**Environmental Conditions**	26deg. C, 51%RH
Tested By	Carl Xie		

Rg	Frequency [MHz]	QPK Level [dBuV]	QPK Limit [dBuV]	QPK Margin [dB]	CAV Level [dBuV]	CAV AVG Limit [dBuV]	CAV Margin [dB]	Correction [dB]	Line	Meas. BW [kHz]
1	0.150	54.24	66.00	11.76	38.80	56.00	17.20	12.13	N	9.000
1	0.425	41.72	57.36	15.64	31.21	47.36	16.15	12.81	N	9.000
1	0.816	35.64	56.00	20.36	32.28	46.00	13.72	12.74	N	9.000
1	2.432	36.31	56.00	19.69	29.34	46.00	16.66	12.75	N	9.000
1	7.530	29.64	60.00	30.37	23.02	50.00	26.98	12.78	N	9.000
1	14.136	35.40	60.00	24.60	29.46	50.00	20.54	12.82	N	9.000

REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Limit value - Emission level
5. Correction factor = Insertion loss + Cable loss
6. Emission Level = Correction Factor + Reading Value.



3.3 MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

3.3.1 LIMITS OF MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

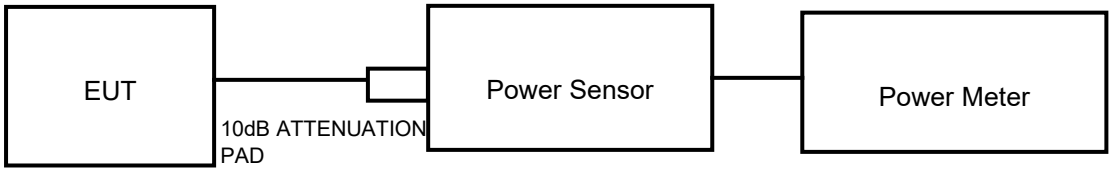
Operation Band	EUT Category		LIMIT
U-NII-1		Outdoor Access Point	1 Watt (30 dBm) (Max. e.i.r.p ≦ 125mW(21 dBm) at any elevation angle above 30 degrees as measured from the horizon)
		Fixed point-to-point Access Point	1 Watt (30 dBm)
		Indoor Access Point	1 Watt (30 dBm)
	√	Client devices	250mW (24 dBm)
U-NII-2A	√		250mW (24 dBm) or 11 dBm+10 log B*
U-NII-2C	√		250mW (24 dBm) or 11 dBm+10 log B*
U-NII-3	√		1 Watt (30 dBm)

NOTE: Where B is the 26dB emission bandwidth in MHz

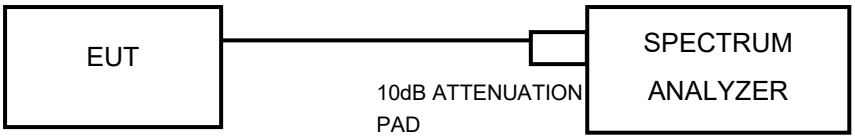
3.3.2 TEST SETUP

FOR POWER OUTPUT MEASUREMENT

802.11a, 802.11n/ac (20MHz), 802.11 n/ac (40MHz), 802.11ac (80MHz) TEST CONFIGURATION



FOR 26dB BANDWIDTH



3.3.3 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Power Meter	ANRITSU	ML2495A	1506002	Feb. 14,23	Feb. 13,24
EXA Signal Analyzer	KEYSIGHT	N9010A-526	MY54510523	Feb. 14,23	Feb. 13,24
EXA Signal Analyzer	KEYSIGHT	N9010A-544	MY54510355	May.10,23	May.09,24
Power Sensor	ANRITSU	MA2411B	1339352	Feb. 14,23	Feb. 13,24

NOTE:

1. The calibration interval of the above test instruments is 12 months, and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.
2. The test was performed in the RF Oven room.

3.3.4 TEST PROCEDURE

FOR POWER MEASUREMENT

For 802.11a, 802.11 n/ac (20MHz), 802.11 n/ac (40MHz) , 802.11ac (80MHz)

Method PM is used to perform output power measurement, trigger and gating function of wide band power meter is enabled to measure max output power of TX on burst. Duty factor is not added to measured value.

FOR 99 PERCENT OCCUPIED BANDWIDTH

The following procedure shall be used for measuring (99 %) power bandwidth:

1. Set center frequency to the nominal EUT channel center frequency.
2. Set span = 1.5 times to 5.0 times the OBW.
3. Set RBW = 1 % to 5 % of the OBW
4. Set VBW ≥ 3 · RBW
5. Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
6. Use the 99 % power bandwidth function of the instrument (if available).
7. If the instrument does not have a 99 % power bandwidth function, the trace data points are recovered and directly summed in power units. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5 % of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5 % of the total is reached; that frequency is recorded as the upper frequency. The 99% occupied bandwidth is the difference between these two frequencies.

FOR 26dB BANDWIDTH

1) Set RBW = approximately 1% of the emission bandwidth.
2) Set the VBW > RBW.
3) Detector = Peak.
4) Trace mode = max hold.
5) Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

FOR 6dB BANDWIDTH

1. Set RBW = 100 kHz.
2. Set the video bandwidth (VBW) ≥ 3 RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

3.3.5 DEVIATION FROM TEST STANDARD

No deviation.

3.3.6 EUT OPERATING CONDITIONS

The software provided by the client to enable the EUT under transmission condition continuously at specific channel frequencies individually.

3.3.7 TEST RESULTS

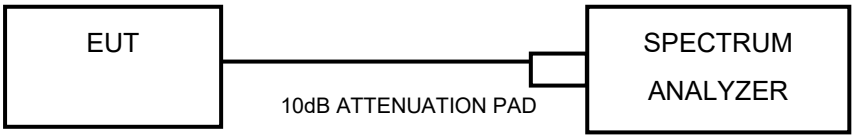
Please Refer to Appendix Of this test report.

3.4 MAXIMUM POWER SPECTRAL DENSITY MEASUREMENT

3.4.1 LIMITS OF MAXIMUM POWER SPECTRAL DENSITY MEASUREMENT

Operation Band	EUT Category		LIMIT
U-NII-1		Outdoor Access Point	17dBm/ MHz
		Fixed point-to-point Access Point	
		Indoor Access Point	
	√	Client devices	11dBm/ MHz
U-NII-2A	√		11dBm/ MHz
U-NII-2C	√		11dBm/ MHz
U-NII-3	√		30dBm/ 500kHz

3.4.2 TEST SETUP



3.4.3 TEST INSTRUMENTS

Refer to section 3.3.3 to get information about the above instrument.

3.4.4 TEST PROCEDURES

Using method SA-2(Band1/2/3)

1) Set span to encompass the entire emission bandwidth (EBW) of the signal.
2) Set RBW = 1 MHz, Set VBW ≥ 3 MHz, Detector = RMS
3) Set Channel power measure = 1MHz
4) Sweep time = auto, trigger set to “free run”.
5) Trace average at least 100 traces in power averaging mode.
6) Add 10 log (1/x), where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times (because the measurement represents an average over both the on and off times of the transmission).
7) Record the max value

Using method SA-2 (Band4)

1) Set span to encompass the entire emission bandwidth (EBW) of the signal.
2) Set RBW = 300 KHz, Set VBW ≥ 1 MHz, Detector = RMS
3) Set Channel power measure = 1MHz
4) Sweep time = auto, trigger set to “free run”.
5) Trace average at least 100 traces in power averaging mode.
6) Add 10 log(500kHz/RBW) to the test result. 10 log(500kHz/300KHZ) = 2.22dBm
7) Add 10 log (1/x), where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times (because the measurement represents an average over both the on and off times of the transmission).
8) Record the max value

3.4.5 DEVIATION FROM TEST STANDARD

No deviation.

3.4.6 EUT OPERATING CONDITIONS

Same as 3.1.7.

3.4.7 TEST RESULTS

Please Refer to Appendix Of this test report.

3.5 AUTOMATICALLY DISCONTINUE TRANSMISSION

3.5.1 LIMIT OF AUTOMATICALLY DISCONTINUE TRANSMISSION

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signaling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization a description of how this requirement is met.

3.5.2 TEST INSTRUMENTS

Refer to section 3.3.3 to get information about the above instrument.

3.5.3 TEST RESULT

While the EUT is not transmitting any information, the EUT can automatically discontinue transmission and become standby mode for power saving。 The EUT can detect the controlling of ACK message transmitting from remote device and verify whether it shall resend or discontinue transmission.

3.6 ANTENNA REQUIREMENTS

3.6.1 STANDARD APPLICABLE

If transmitting antenna directional gain is greater than 6 dBi, both the peak transmits power, and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

3.6.2 ANTENNA CONNECTED CONSTRUCTION

An embedded-in antenna design is used.

3.6.3 ANTENNA GAIN

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit and PSD limit.

4 PHOTOGRAPHS OF THE TEST CONFIGURATION

Please refer to the attached file (Test Setup Photo).

5 MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No modifications were made to the EUT by the lab during the test.

6 APPENDIX: RLAN

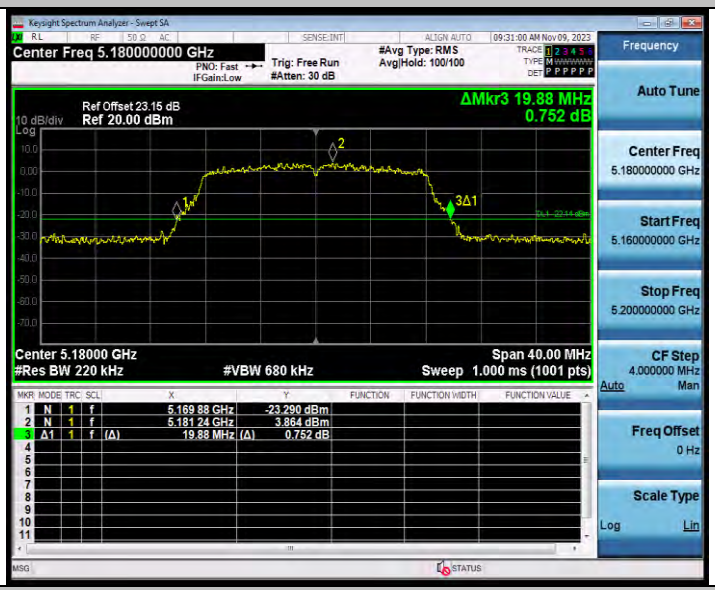
EMISSION BANDWIDTH

TEST RESULT

TestMode	Antenna	Frequency[MHz]	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	19.880	5169.880	5189.760	---	---
		5200	19.600	5190.280	5209.880	---	---
		5240	19.920	5230.040	5249.960	---	---
		5260	19.840	5250.120	5269.960	---	---
		5280	19.880	5270.080	5289.960	---	---
		5320	20.040	5309.920	5329.960	---	---
		5500	19.720	5490.160	5509.880	---	---
		5580	20.040	5569.960	5590.000	---	---
		5700	20.160	5689.760	5709.920	---	---
		5745	31.160	5728.280	5759.440	---	---
		5785	19.800	5775.040	5794.840	---	---
		5825	19.840	5814.960	5834.800	---	---
11N20SISO	Ant1	5180	20.160	5169.920	5190.080	---	---
		5200	20.320	5189.720	5210.040	---	---
		5240	20.120	5230.000	5250.120	---	---
		5260	20.080	5249.960	5270.040	---	---
		5280	20.120	5270.000	5290.120	---	---
		5320	20.360	5309.800	5330.160	---	---
		5500	20.280	5489.800	5510.080	---	---
		5580	20.200	5569.880	5590.080	---	---
		5700	20.280	5689.800	5710.080	---	---
		5745	20.320	5734.720	5755.040	---	---
		5785	20.000	5774.960	5794.960	---	---
		5825	20.040	5814.920	5834.960	---	---
11N40SISO	Ant1	5190	40.560	5169.600	5210.160	---	---
		5230	40.320	5209.840	5250.160	---	---
		5270	40.560	5249.840	5290.400	---	---
		5310	40.320	5290.080	5330.400	---	---
		5510	40.640	5489.760	5530.400	---	---

		5550	40.480	5529.600	5570.080	---	---
		5670	40.240	5649.920	5690.160	---	---
		5755	40.560	5734.520	5775.080	---	---
		5795	40.560	5774.680	5815.240	---	---
11AC20SISO	Ant1	5180	20.360	5169.880	5190.240	---	---
		5200	20.040	5189.960	5210.000	---	---
		5240	20.240	5229.840	5250.080	---	---
		5260	20.240	5249.920	5270.160	---	---
		5280	20.200	5269.880	5290.080	---	---
		5320	20.040	5310.000	5330.040	---	---
		5500	20.080	5489.920	5510.000	---	---
		5580	20.240	5569.880	5590.120	---	---
		5700	20.200	5689.840	5710.040	---	---
		5745	20.240	5734.880	5755.120	---	---
		5785	20.160	5774.960	5795.120	---	---
		5825	20.080	5815.040	5835.120	---	---
11AC40SISO	Ant1	5190	40.640	5169.760	5210.400	---	---
		5230	40.800	5209.440	5250.240	---	---
		5270	40.240	5250.000	5290.240	---	---
		5310	40.480	5289.760	5330.240	---	---
		5510	40.320	5489.840	5530.160	---	---
		5550	40.400	5529.840	5570.240	---	---
		5670	40.240	5649.920	5690.160	---	---
		5755	40.560	5734.440	5775.000	---	---
		5795	40.240	5774.760	5815.000	---	---
11AC80SISO	Ant1	5210	81.120	5169.360	5250.480	---	---
		5290	80.960	5249.520	5330.480	---	---
		5530	81.600	5489.360	5570.960	---	---
		5610	108.160	5542.320	5650.480	---	---
		5775	81.280	5734.520	5815.800	---	---

TEST GRAPHS

11A_Ant1_5180

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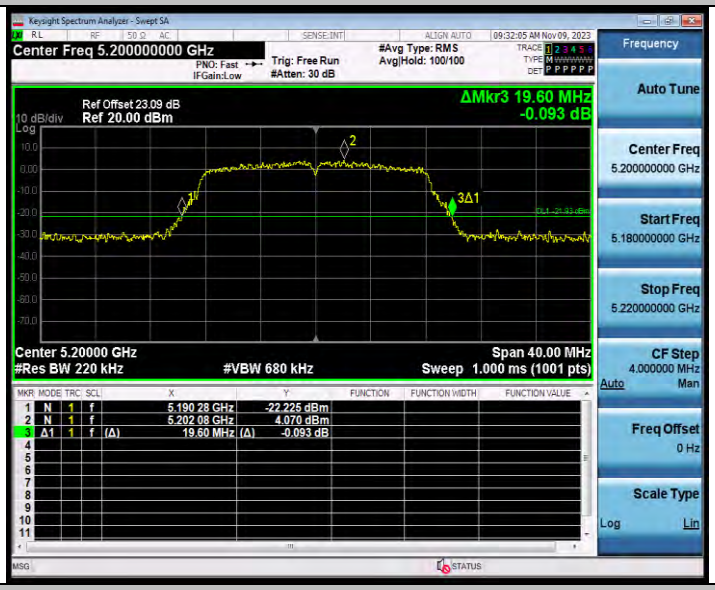
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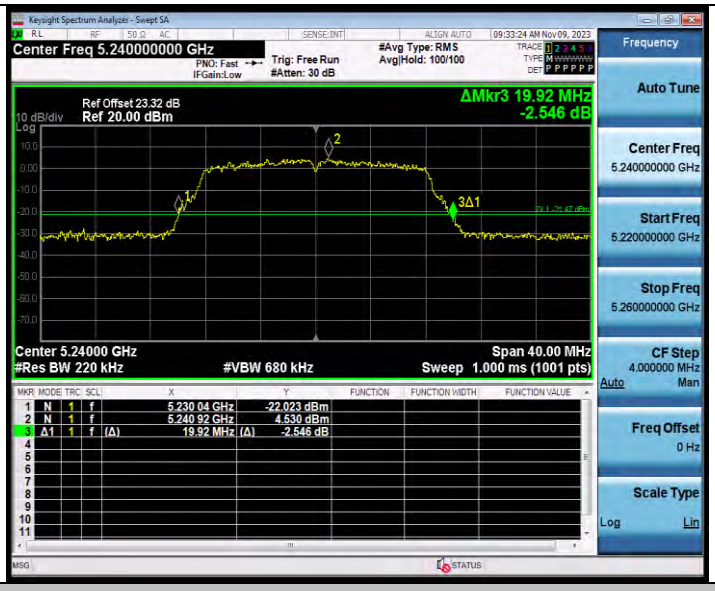
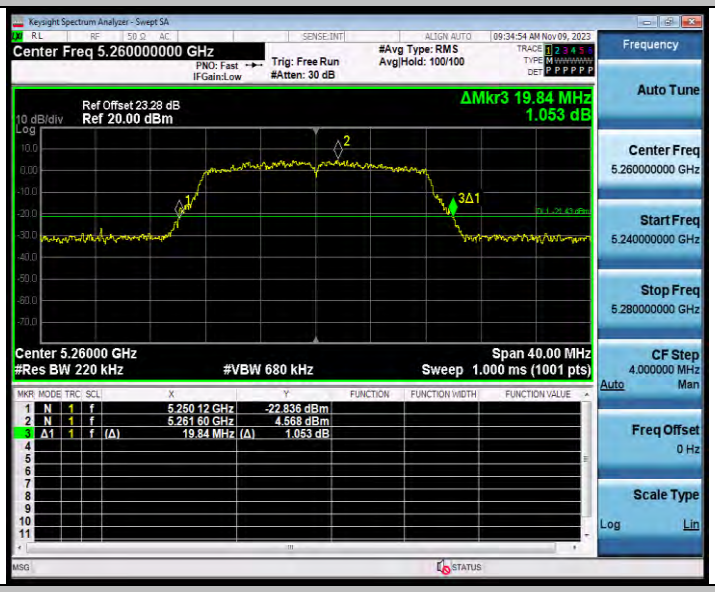
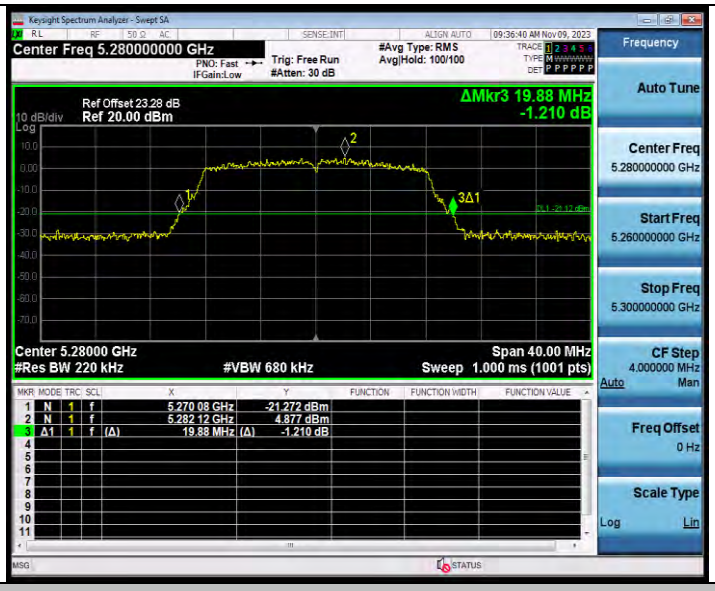


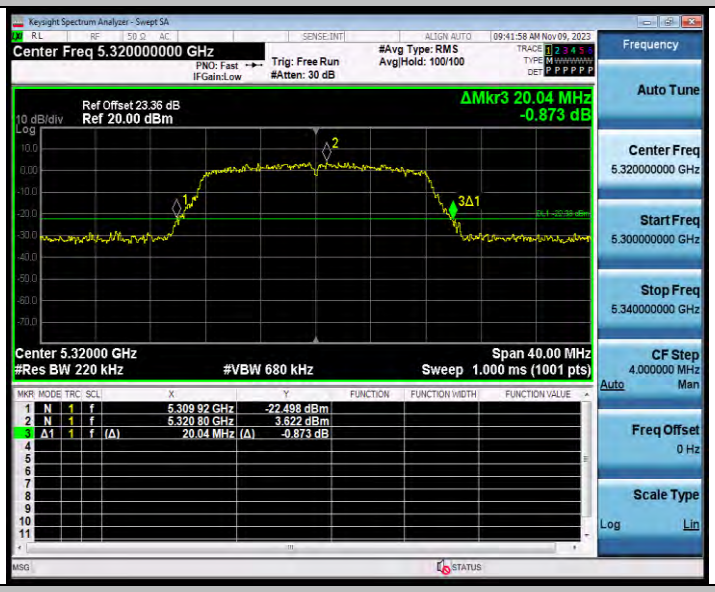
11A_Ant1_5260



11A_Ant1_5280



11A_Ant1_5320



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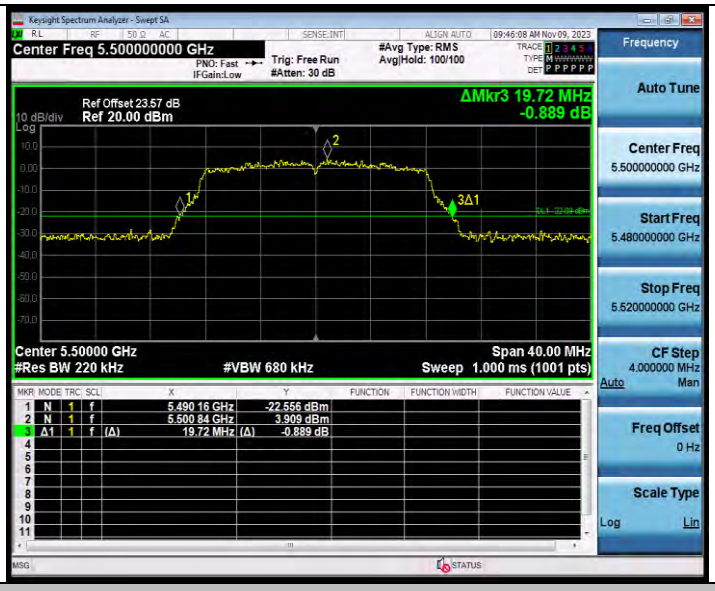
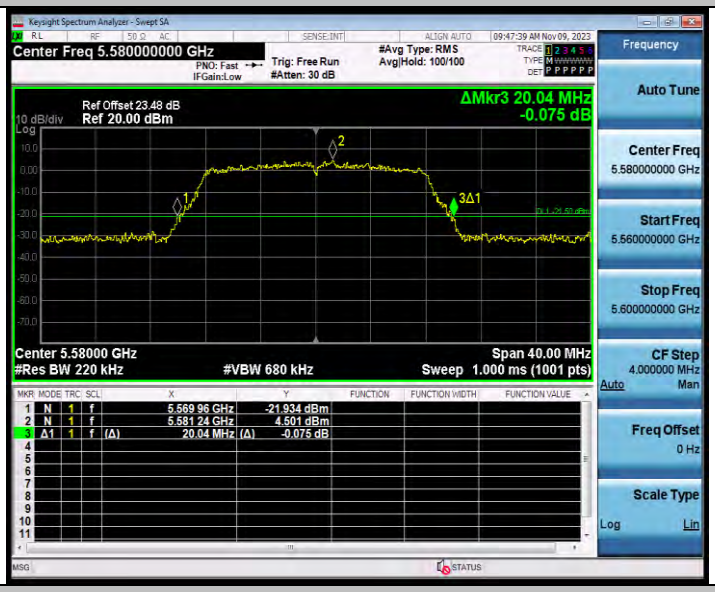


11A_Ant1_5580



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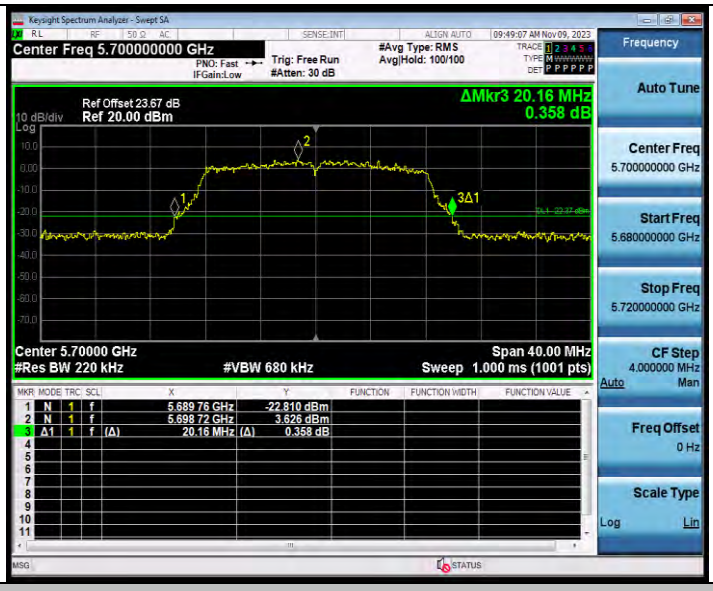

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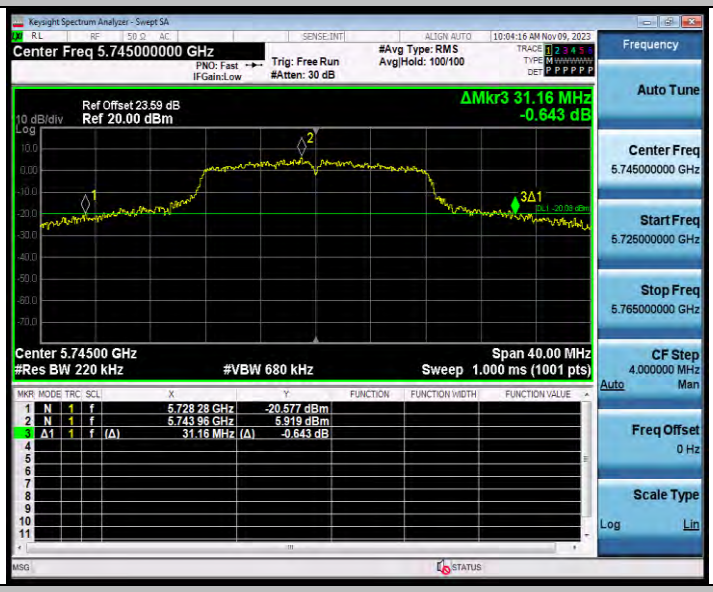

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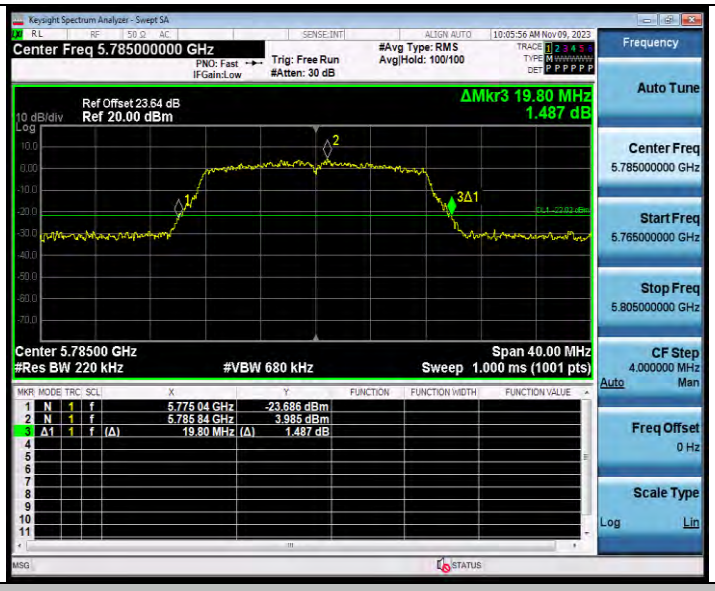

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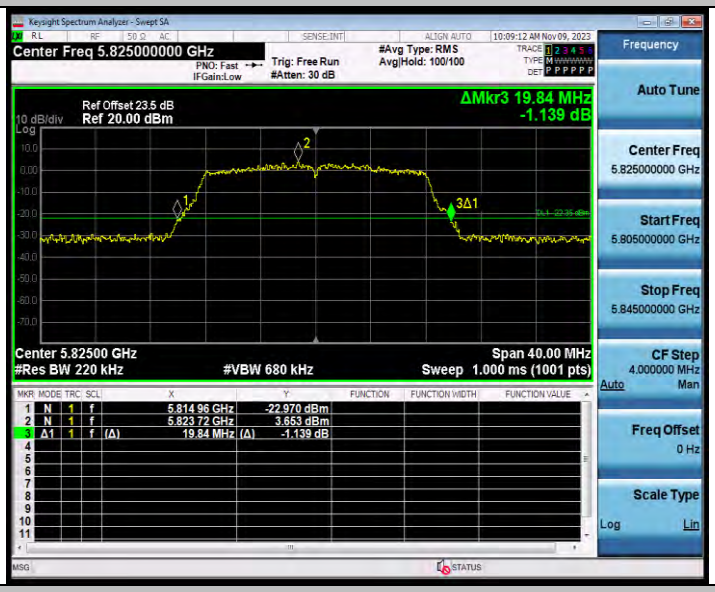
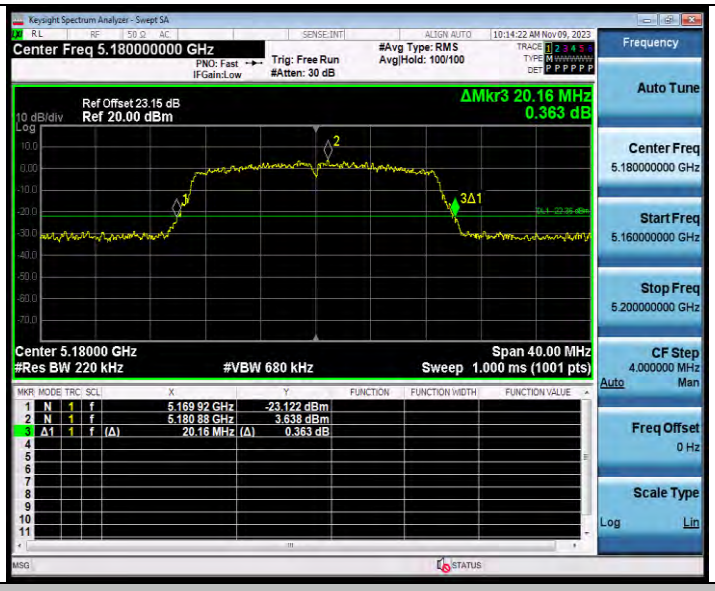
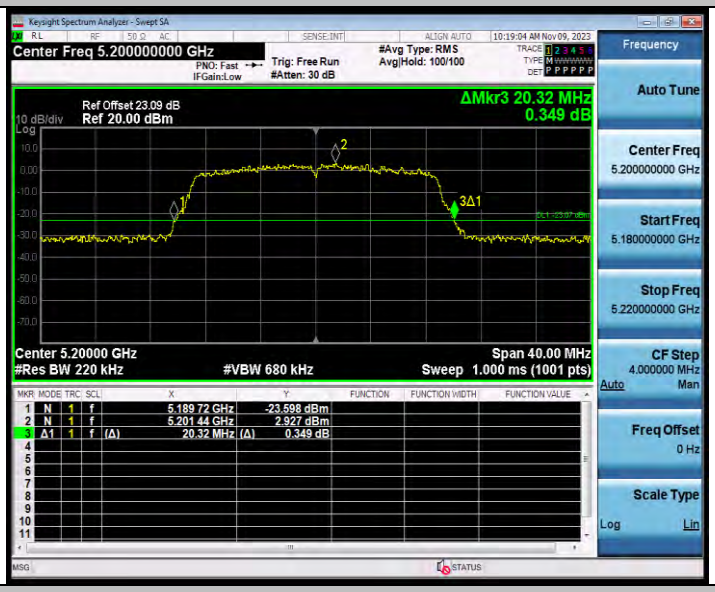


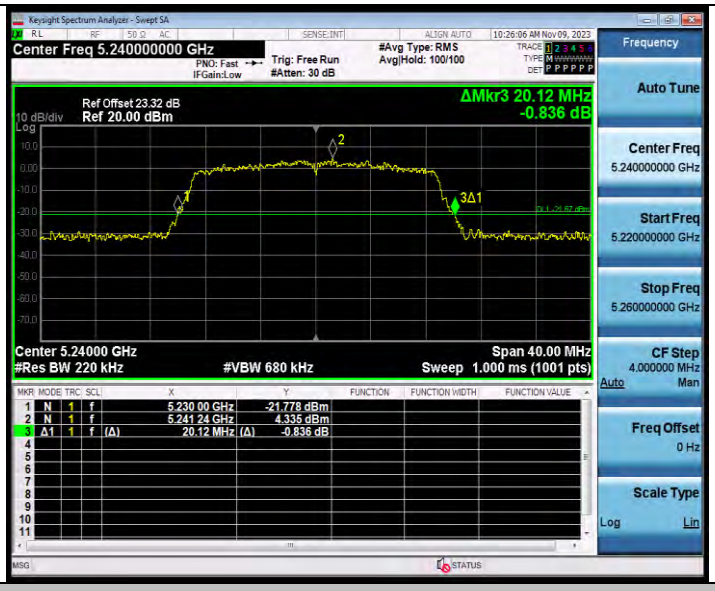
11N20SISO_Ant1_5180



11N20SISO_Ant1_5200



11N20SISO_Ant1_5240



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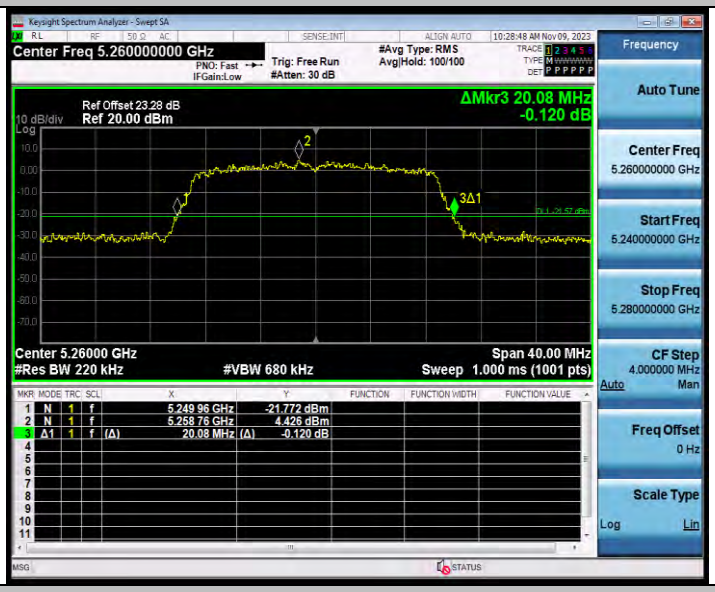

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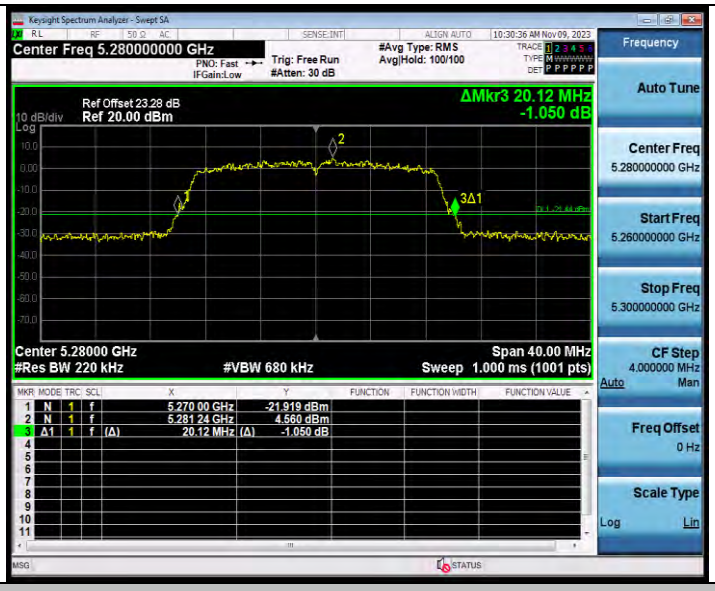

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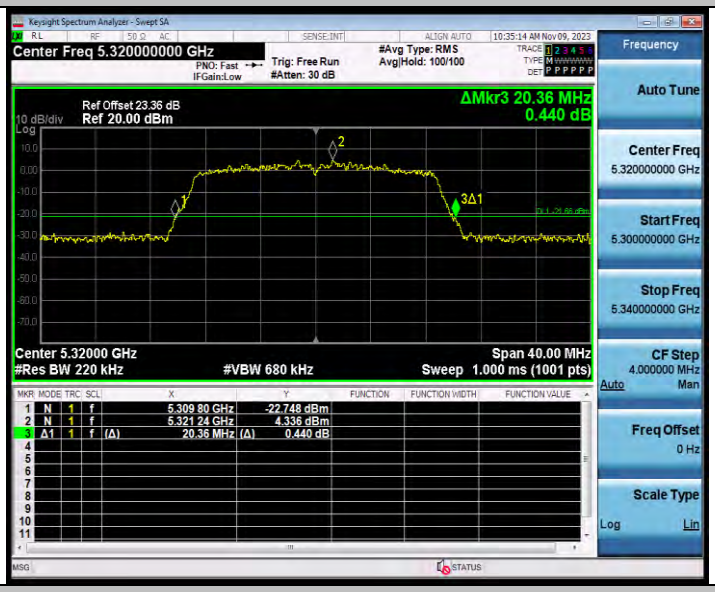

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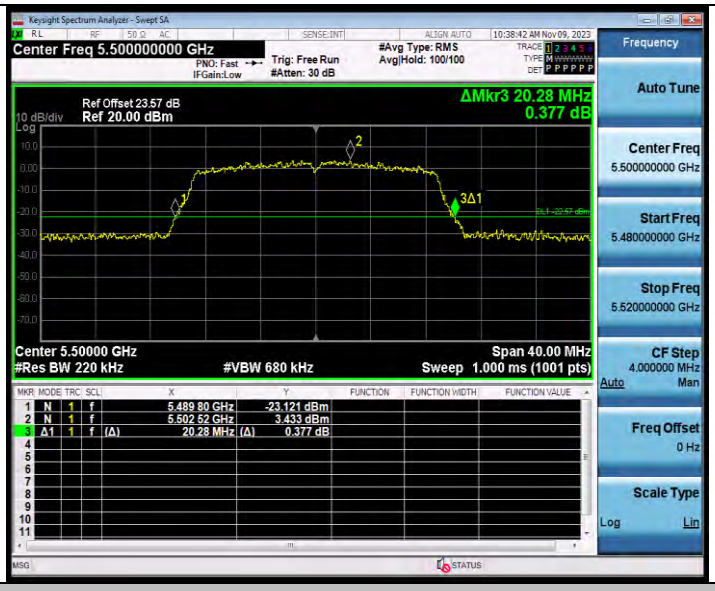

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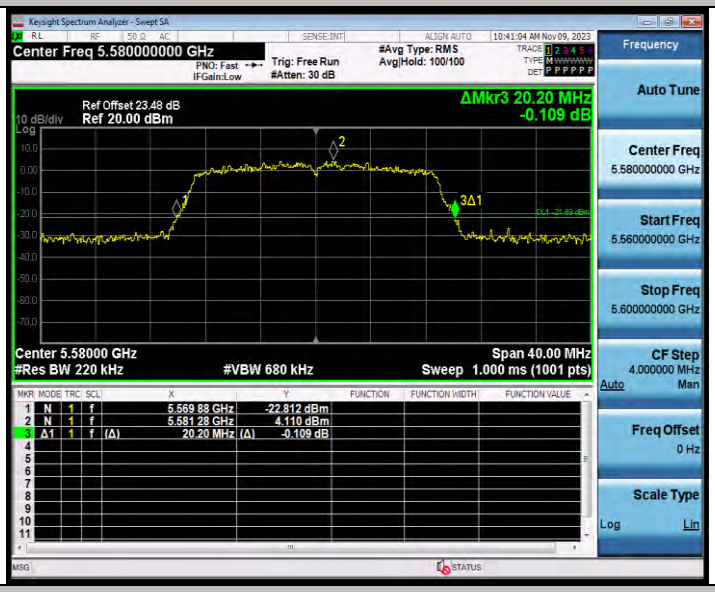

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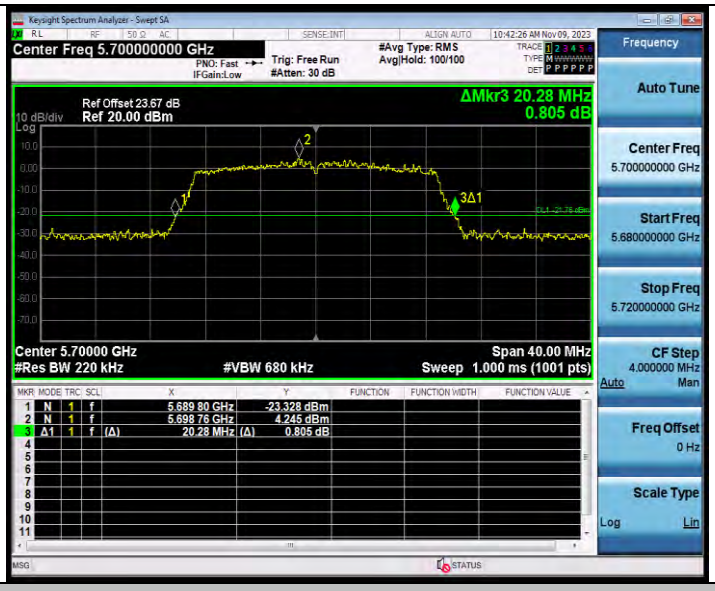

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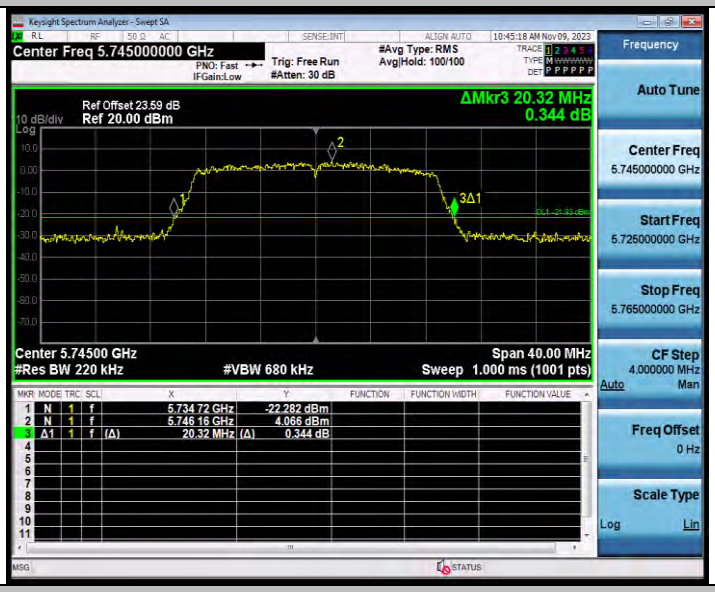

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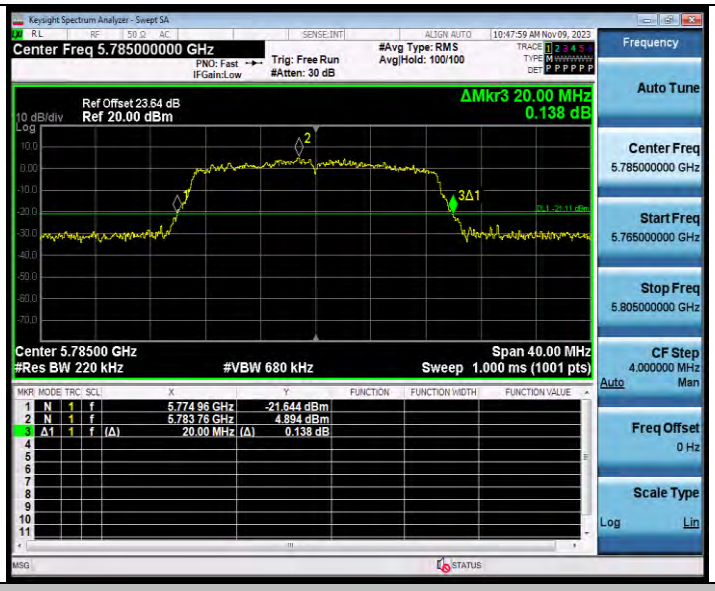

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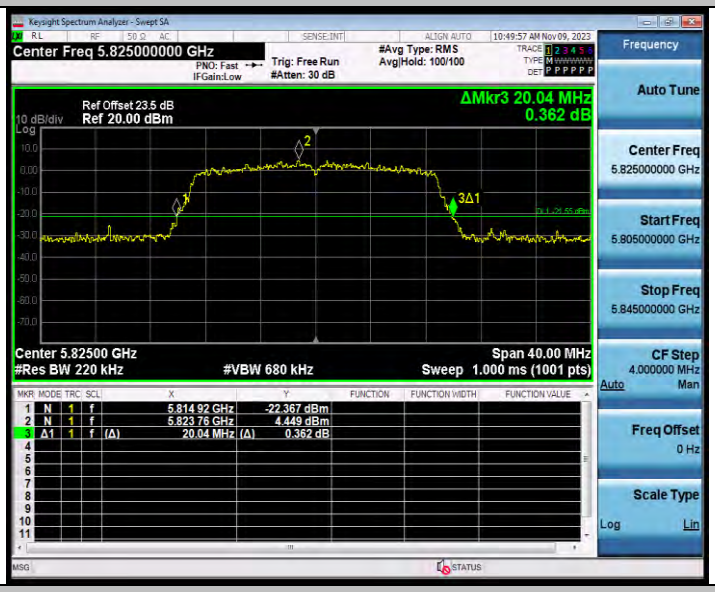

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