

Appendix B_Radiated Spurious Emission Data for 2.4GHz WIFI:

1.Radiated Spurious Emission and Restricted Band

Test Result

Radiated Spurious Emission:

For 9 kHz ~ 30 MHz

Note:

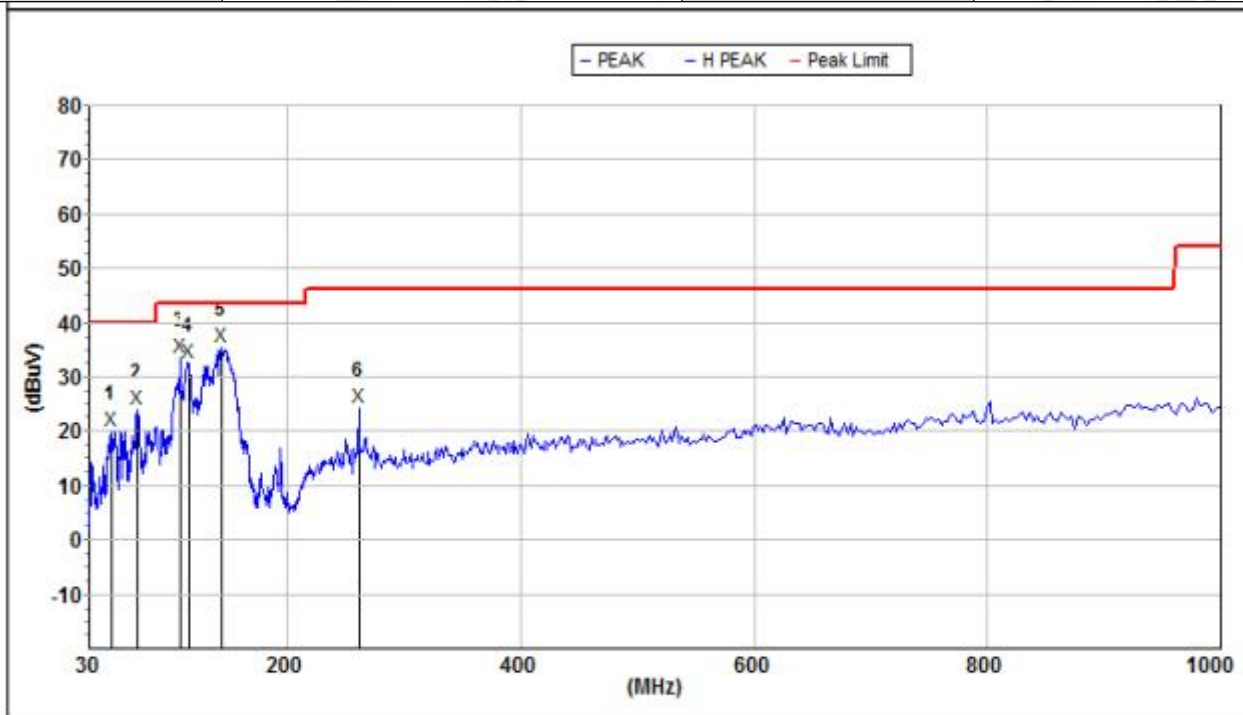
- 1.The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported data.
- 2.The all data rate modes had been test, but only worse test data was recorded in the test report.

Below 1GHz:

Note:

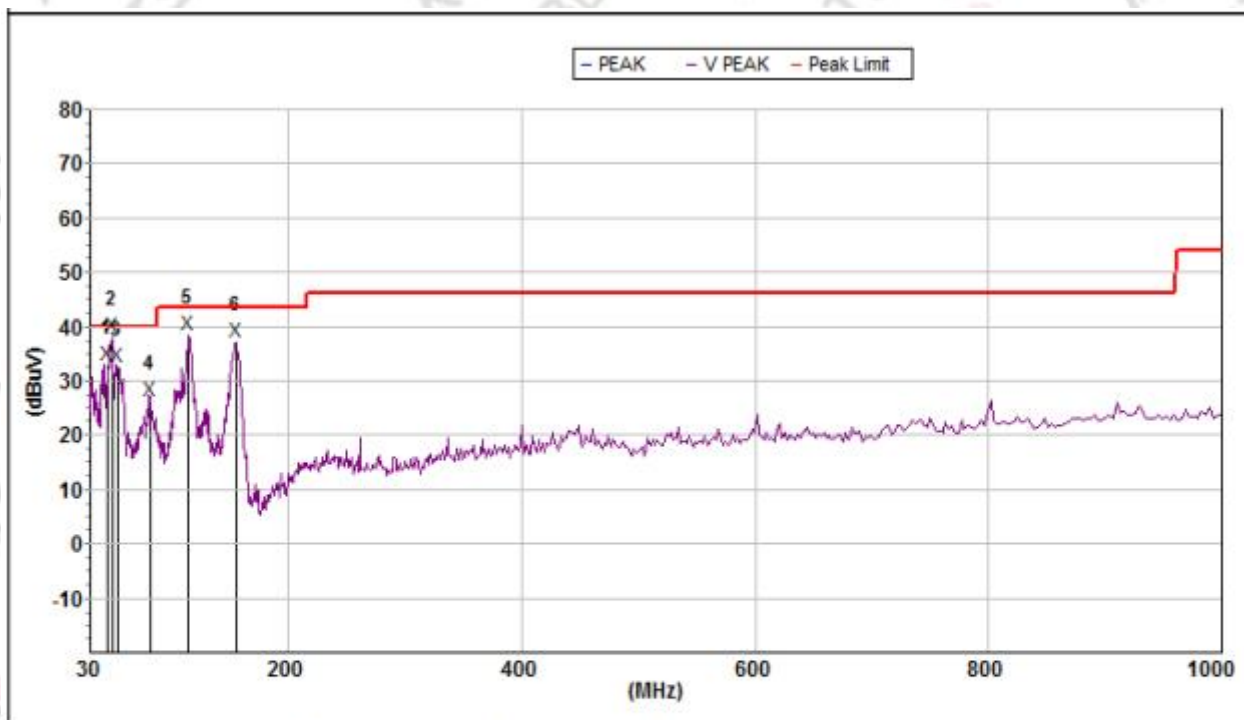
- 1.All modes have been tested, only worst (802.11ax40-TX Channel 3)mode was recorded in the test report.
- 2.Emission Level (dBuV/m) = Reading Value (dBuV) + Correction Factor (dB/m).
- 3.Correction Factor (dB/m) = Antenna Pol. Factor (dB/m) + Cable Factor (dB)-Amplifier Gain.
- 4.The emission levels of other frequencies were less than 20dB margin against the limit.
- 5.Margin value = Emission level-Limit value.

EUT	Smart Phone	Model Name	Note70 X
Test Mode	802.11ax40-TX Channel 3	Antenna Pol. Pol.	Horizontal



Mk.	Freq.(MHz)	Reading(dBuV/m)	Factor(dB)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Pd.
Peak:							
1	49.187	62.4	-42.3	20.1	40.0	19.9	H
2	70.584	69.2	-45.0	24.2	40.0	15.8	H
3	107.888	71.6	-38.1	33.5	43.5	10.0	H
4	114.917	69.5	-36.8	32.7	43.5	10.8	H
5	143.830	69.1	-33.6	35.5	43.5	8.0	H
6	261.058	51.9	-27.6	24.3	46.0	21.7	H

EUT	Smart Phone	Model Name	Note70 X
Test Mode	802.11ax40-TX Channel 3	Antenna Pol.	Vertical

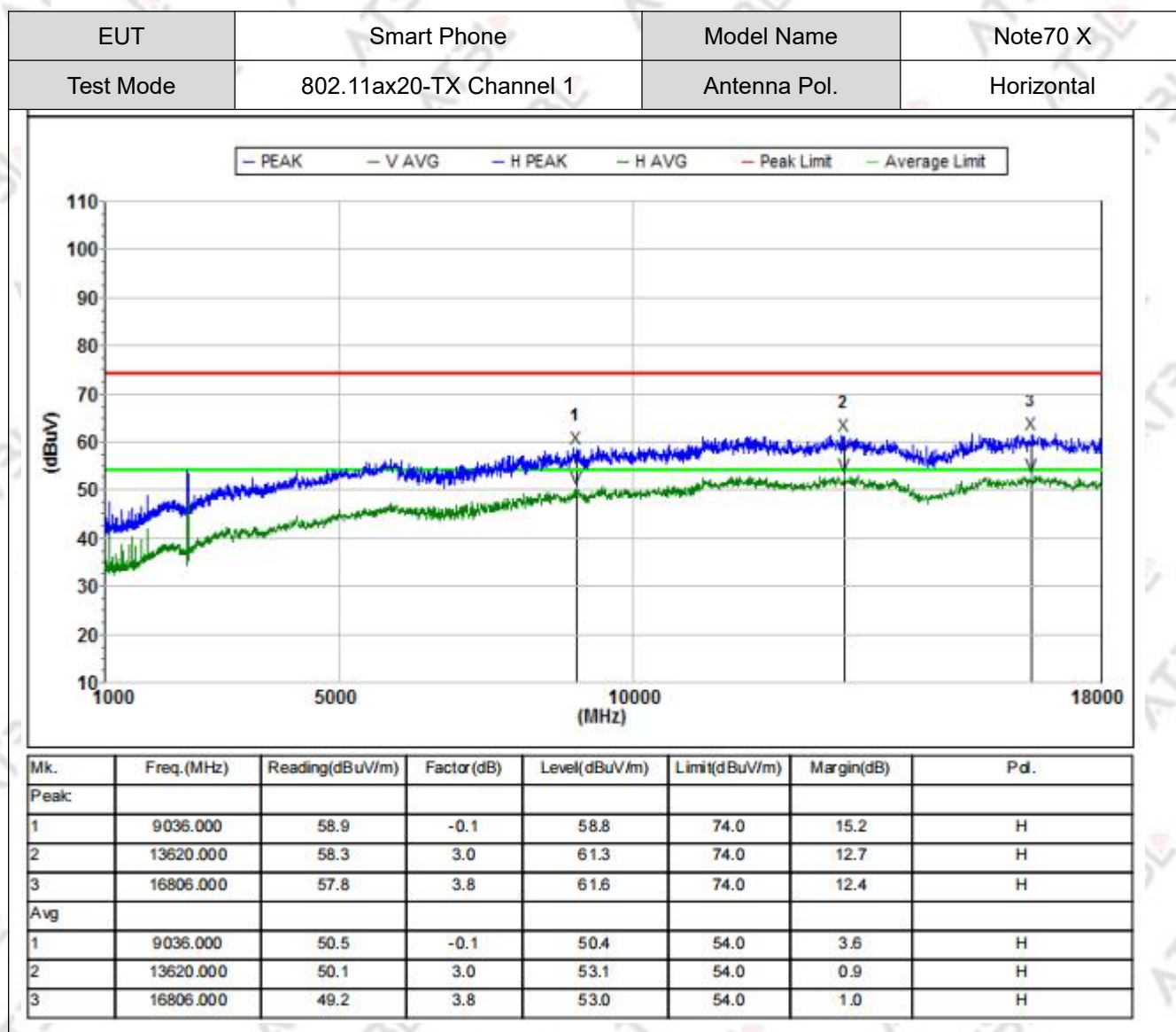


Mk.	Freq.(MHz)	Reading(dBuV/m)	Factor(dB)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Pd.
Peak:							
1	45.058	77.7	-44.6	33.1	40.0	6.9	V
2	48.502	82.3	-44.1	38.2	40.0	1.8	V
3	53.131	76.2	-43.5	32.7	40.0	7.3	V
4	81.212	69.2	-42.9	26.3	40.0	13.7	V
5	114.515	70.5	-31.8	38.7	43.5	4.8	V
6	154.821	72.7	-35.3	37.4	43.5	6.1	V

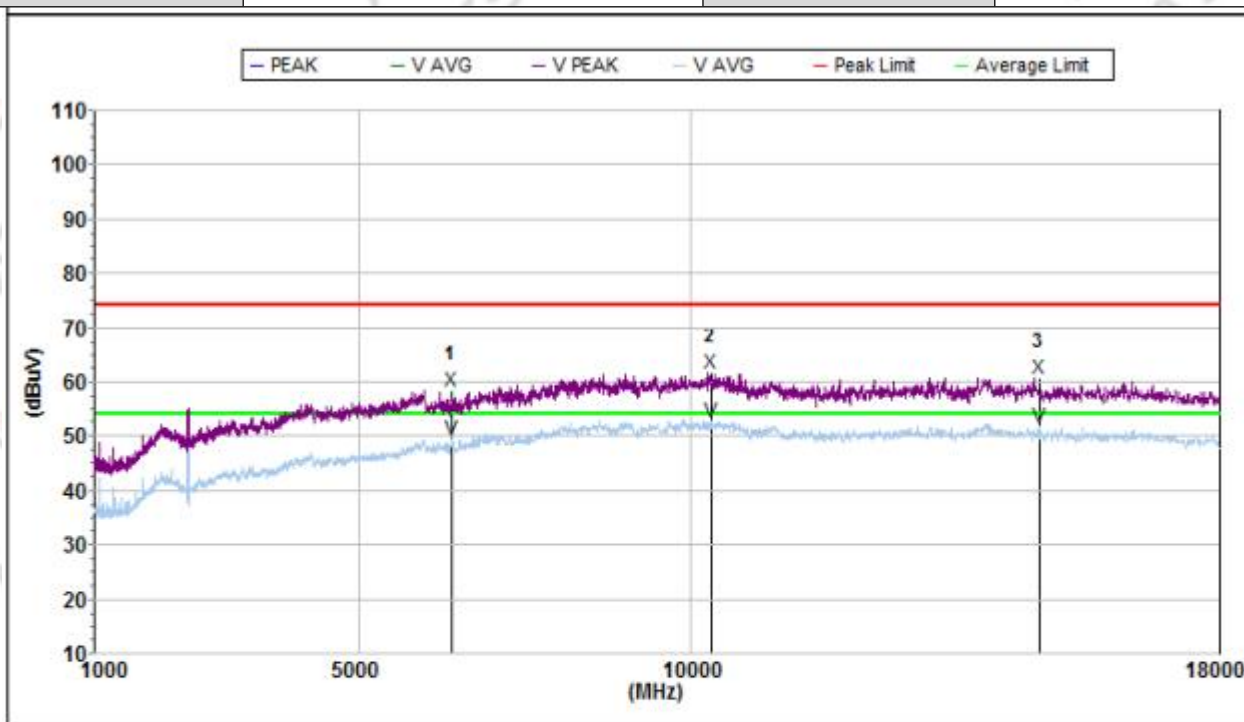
1GHz-18GHz:

Note:

- 1.All modes have been tested, only worst (802.11ax20/40)mode was recorded in the test report.
- 2.We used the filter to test and the main frequency was filtered out.
- 3.Emission Level (dBuV/m) = Reading Value (dBuV) + Correction Factor (dB/m).
4. Correction Factor (dB/m) = Antenna Pol. Factor (dB/m) + Cable Factor (dB)-Amplifier Gain.
5. Margin value = Emission level-Limit value.

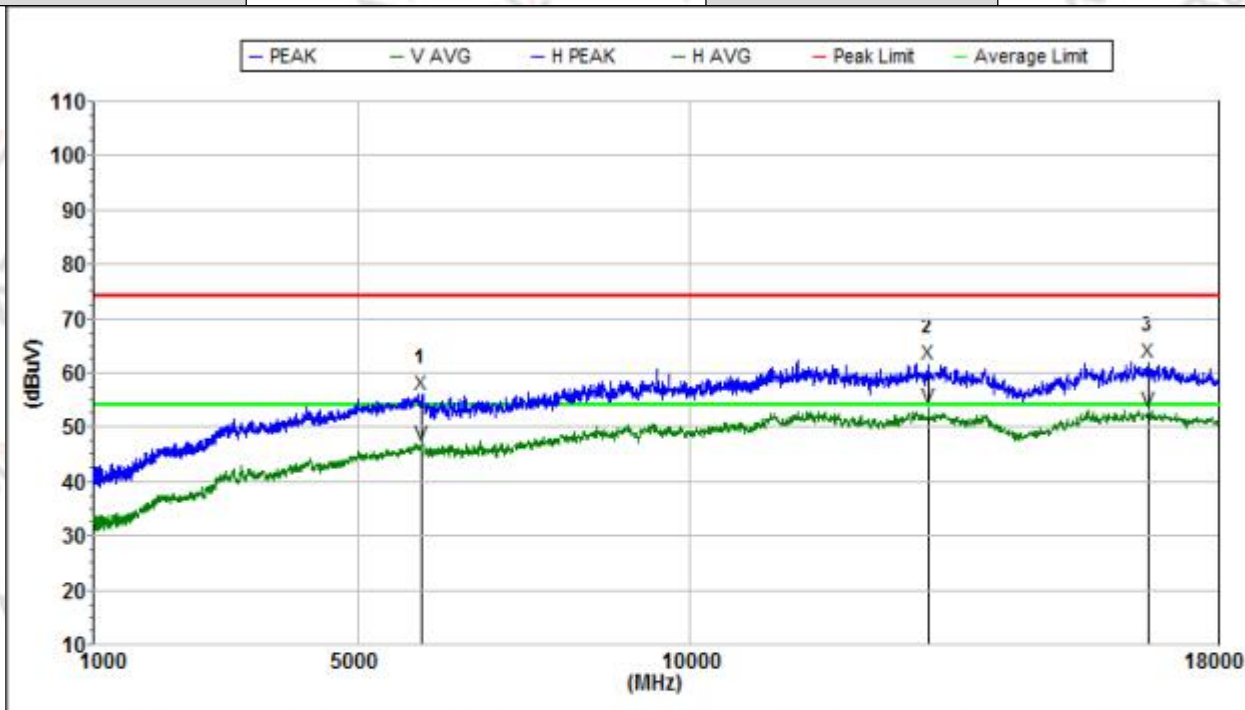


EUT	Smart Phone	Model Name	Note70 X
Test Mode	802.11ax20-TX Channel 1	Antenna Pol.	Vertical



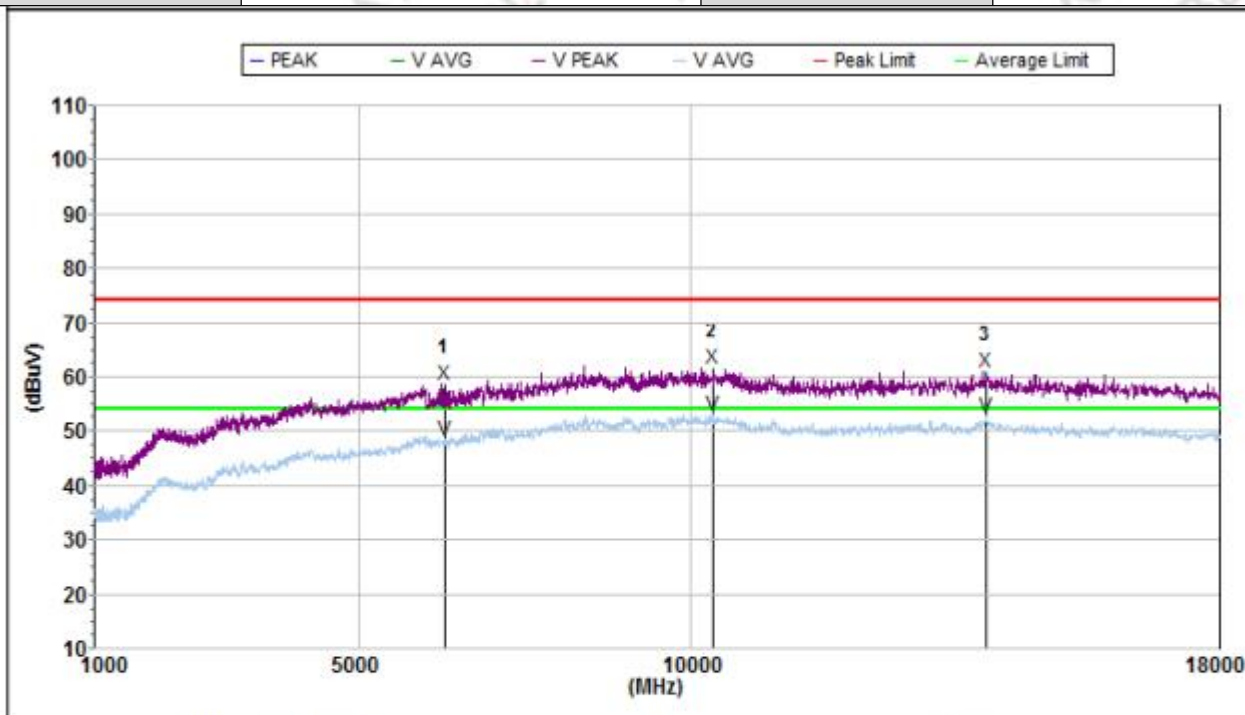
Mk.	Freq.(MHz)	Reading(dBuV/m)	Factor(dB)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Pd.
Peak							
1	6396.000	58.6	-0.3	58.3	74.0	15.7	V
2	10308.000	58.4	3.2	61.6	74.0	12.4	V
3	15264.000	59.3	1.5	60.8	74.0	13.2	V
Avg							
1	6396.000	49.7	-0.3	49.4	54.0	4.6	V
2	10308.000	49.5	3.2	52.7	54.0	1.3	V
3	15264.000	50.3	1.5	51.8	54.0	2.2	V

EUT	Smart Phone	Model Name	Note70 X
Test Mode	802.11ax20-TX Channel 6	Antenna Pol.	Horizontal



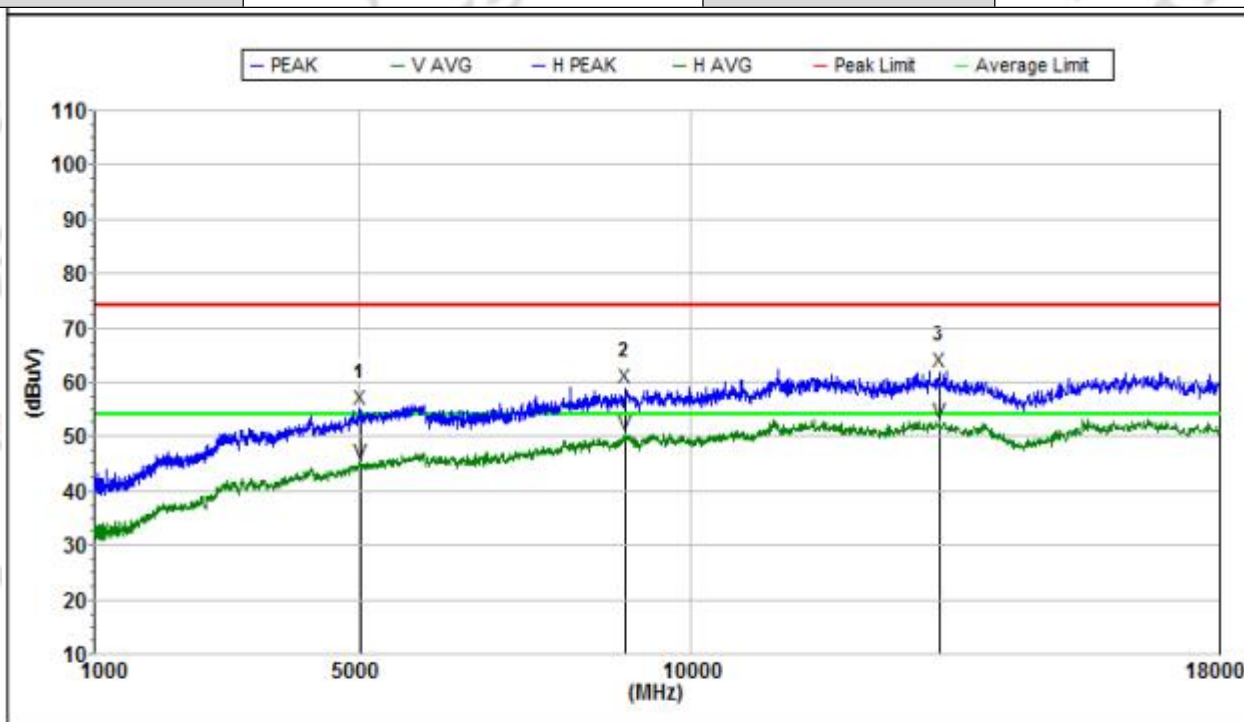
Mk.	Freq.(MHz)	Reading(dBuV/m)	Factor(dB)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Pd.
Peak:							
1	5970.000	59.3	-3.2	56.1	74.0	17.9	H
2	13614.000	58.5	3.0	61.5	74.0	12.5	H
3	16938.000	58.0	3.9	61.9	74.0	12.1	H
Avg							
1	5970.000	49.9	-3.2	46.7	54.0	7.3	H
2	13614.000	50.7	3.0	53.7	54.0	0.3	H
3	16938.000	49.3	3.9	53.2	54.0	0.8	H

EUT	Smart Phone	Model Name	Note70 X
Test Mode	802.11ax20-TX Channel 6	Antenna Pol.	Vertical



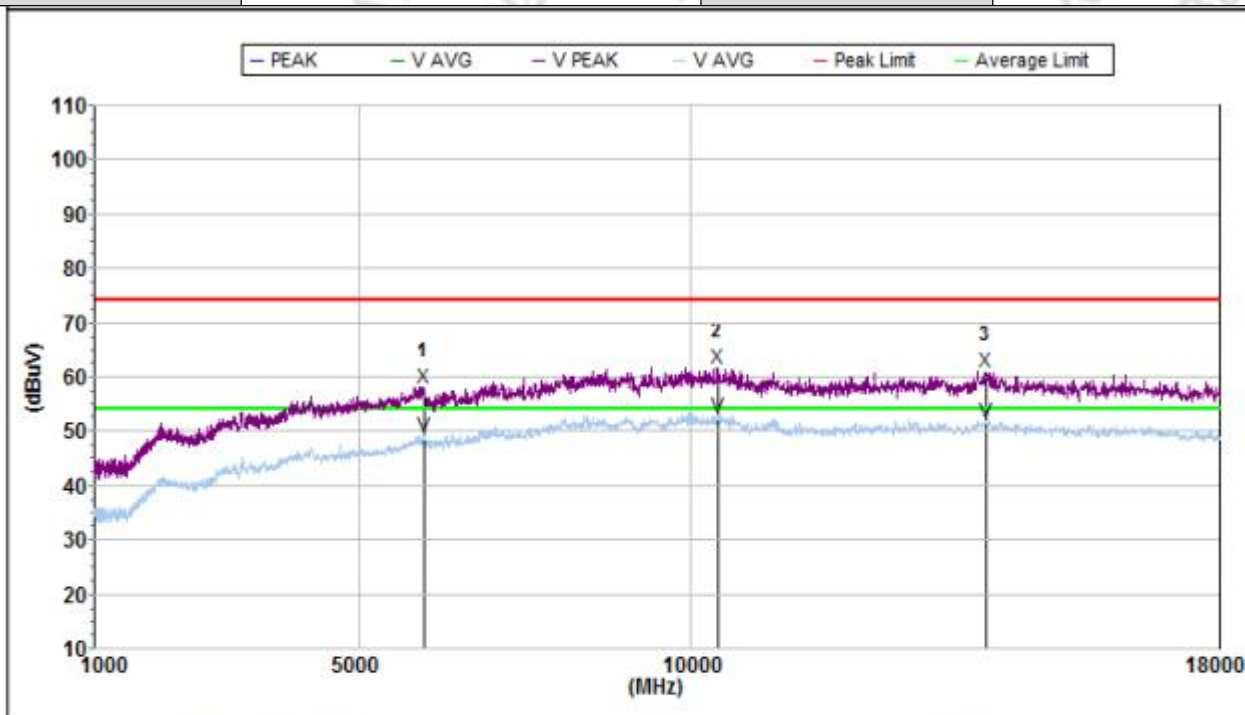
Mk.	Freq.(MHz)	Reading(dBuV/m)	Factor(dB)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Pd.
Peak							
1	6288.000	59.1	-0.5	58.6	74.0	15.4	V
2	10350.000	58.2	3.3	61.5	74.0	12.5	V
3	14472.000	58.4	2.5	60.9	74.0	13.1	V
Avg							
1	6288.000	48.9	-0.5	48.4	54.0	5.6	V
2	10350.000	49.8	3.3	53.1	54.0	0.9	V
3	14472.000	50.3	2.5	52.8	54.0	1.2	V

EUT	Smart Phone	Model Name	Note70 X
Test Mode	802.11ax20-TX Channel 11	Antenna Pol.	Horizontal



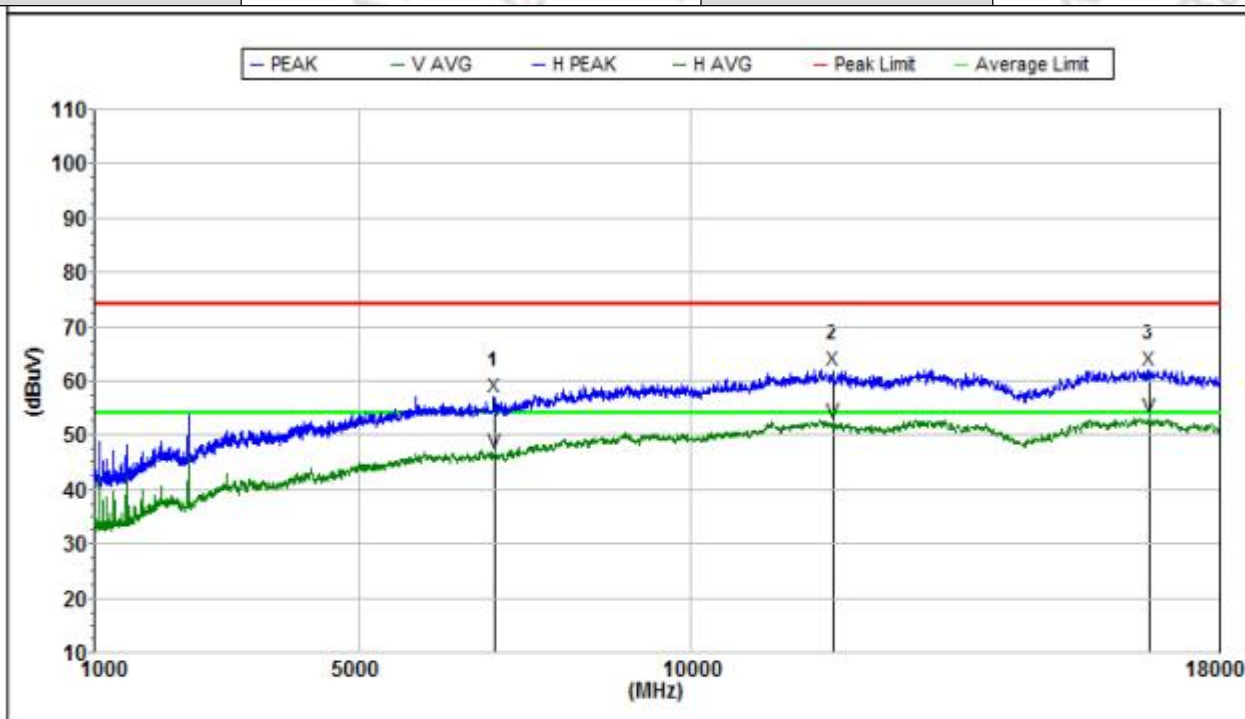
Mk.	Freq.(MHz)	Reading(dBuV/m)	Factor(dB)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Pd.
Peak							
1	5015.000	60.5	-5.5	55.0	74.0	19.0	H
2	9030.000	59.2	-0.1	59.1	74.0	14.9	H
3	13758.000	59.3	2.7	62.0	74.0	12.0	H
Avg							
1	5015.000	50.8	-5.5	45.3	54.0	8.7	H
2	9030.000	50.7	-0.1	50.6	54.0	3.4	H
3	13758.000	50.1	2.7	52.8	54.0	1.2	H

EUT	Smart Phone	Model Name	Note70 X
Test Mode	802.11ax20-TX Channel 11	Antenna Pol.	Vertical



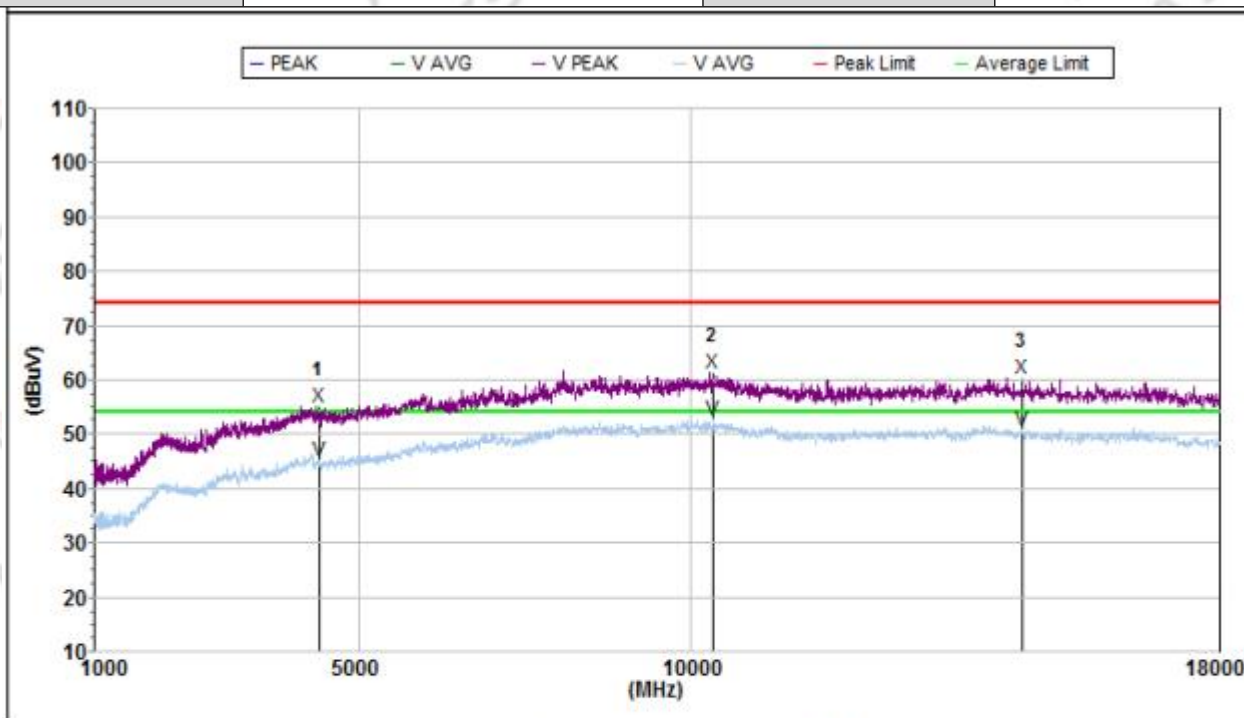
Mk.	Freq.(MHz)	Reading(dBuV/m)	Factor(dB)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Pd.
Peak							
1	5972.500	59.3	-1.2	58.1	74.0	15.9	V
2	10416.000	58.4	3.3	61.7	74.0	12.3	V
3	14472.000	58.6	2.5	61.1	74.0	12.9	V
Avg							
1	5972.500	50.2	-1.2	49.0	54.0	5.0	V
2	10416.000	49.3	3.3	52.6	54.0	1.4	V
3	14472.000	49.4	2.5	51.9	54.0	2.1	V

EUT	Smart Phone	Model Name	Note70 X
Test Mode	802.11ax40-TX Channel 3	Antenna Pol.	Horizontal



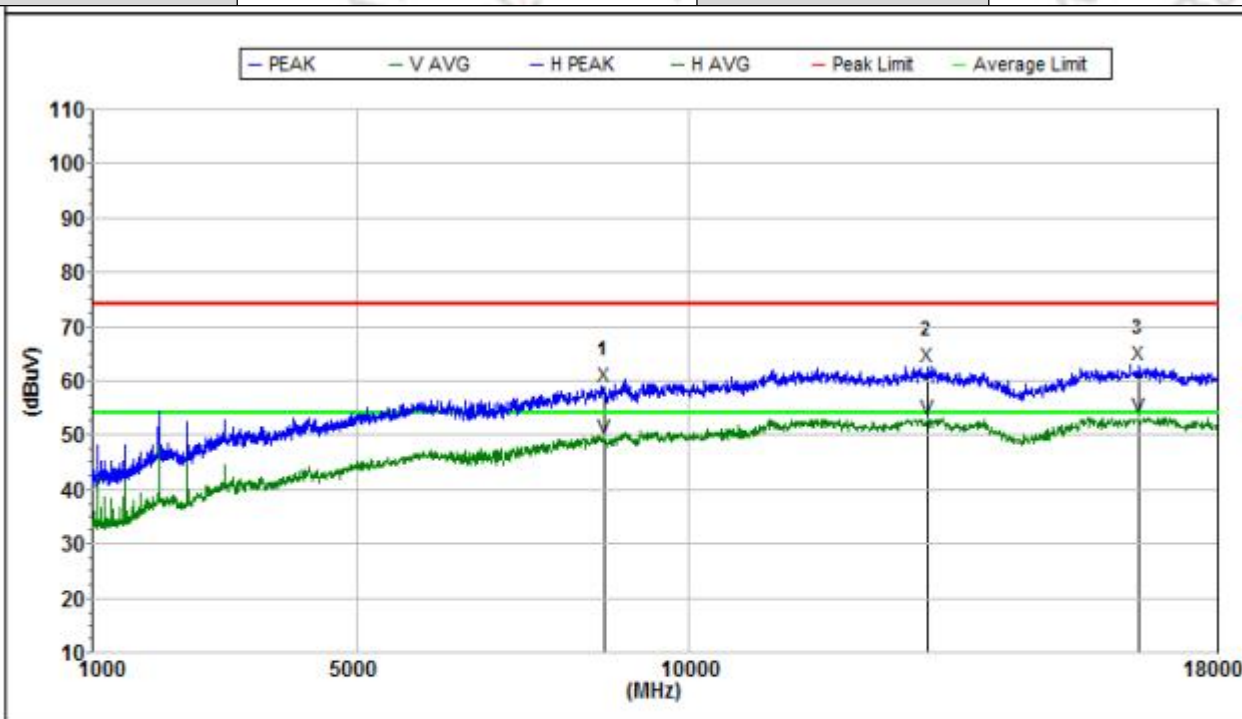
Mk.	Freq.(MHz)	Reading(dBuV/m)	Factor(dB)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Pd.
Peak:							
1	7044.000	60.0	-2.9	57.1	74.0	16.9	H
2	12150.000	59.2	2.8	62.0	74.0	12.0	H
3	16926.000	58.2	3.9	62.1	74.0	11.9	H
Avg							
1	7044.000	49.8	-2.9	46.9	54.0	7.1	H
2	12150.000	49.7	2.8	52.5	54.0	1.5	H
3	16926.000	49.4	3.9	53.3	54.0	0.7	H

EUT	Smart Phone	Model Name	Note70 X
Test Mode	802.11ax40-TX Channel 3	Antenna Pol.	Vertical



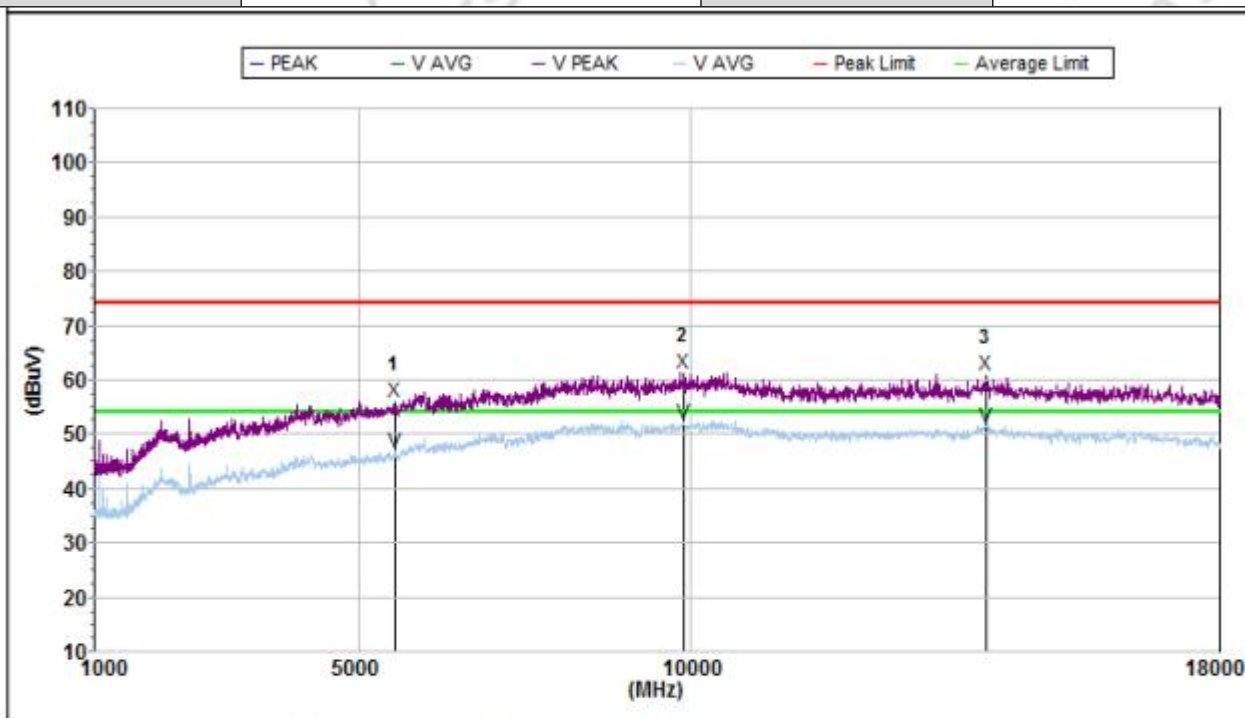
Mk.	Freq.(MHz)	Reading(dBuV/m)	Factor(dB)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Pd.
Peak							
1	4387.500	60.2	-5.1	55.1	74.0	18.9	V
2	10356.000	57.9	3.3	61.2	74.0	12.8	V
3	15012.000	59.1	1.3	60.4	74.0	13.6	V
Avg							
1	4387.500	50.4	-5.1	45.3	54.0	8.7	V
2	10356.000	49.3	3.3	52.6	54.0	1.4	V
3	15012.000	49.6	1.3	50.9	54.0	3.1	V

EUT	Smart Phone	Model Name	Note70 X
Test Mode	802.11ax40-TX Channel 6	Antenna Pol.	Horizontal



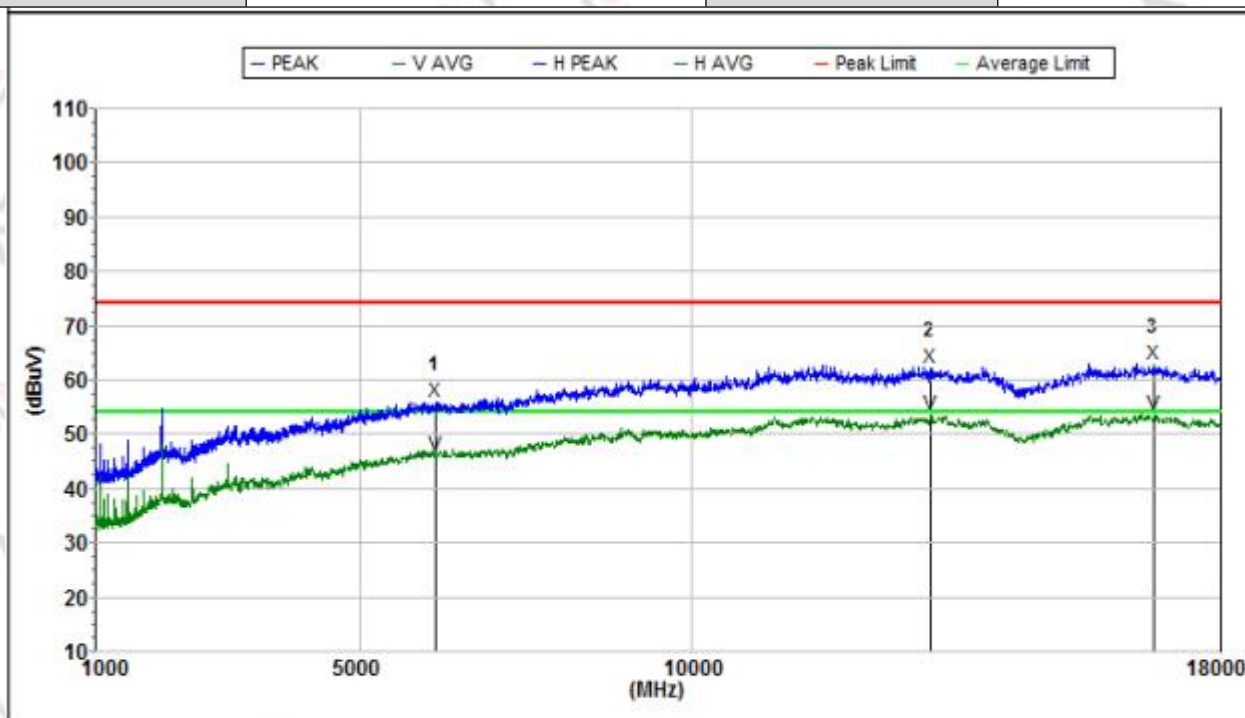
Mk.	Freq.(MHz)	Reading(dBuV/m)	Factor (dB)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Pd.
Peak:							
1	8724.000	59.3	-0.4	58.9	74.0	15.1	H
2	13620.000	59.6	3.0	62.6	74.0	11.4	H
3	16818.000	58.9	3.9	62.8	74.0	11.2	H
Avg							
1	8724.000	50.0	-0.4	49.6	54.0	4.4	H
2	13620.000	50.2	3.0	53.2	54.0	0.8	H
3	16818.000	49.5	3.9	53.4	54.0	0.6	H

EUT	Smart Phone	Model Name	Note70 X
Test Mode	802.11ax40-TX Channel 6	Antenna Pol.	Vertical



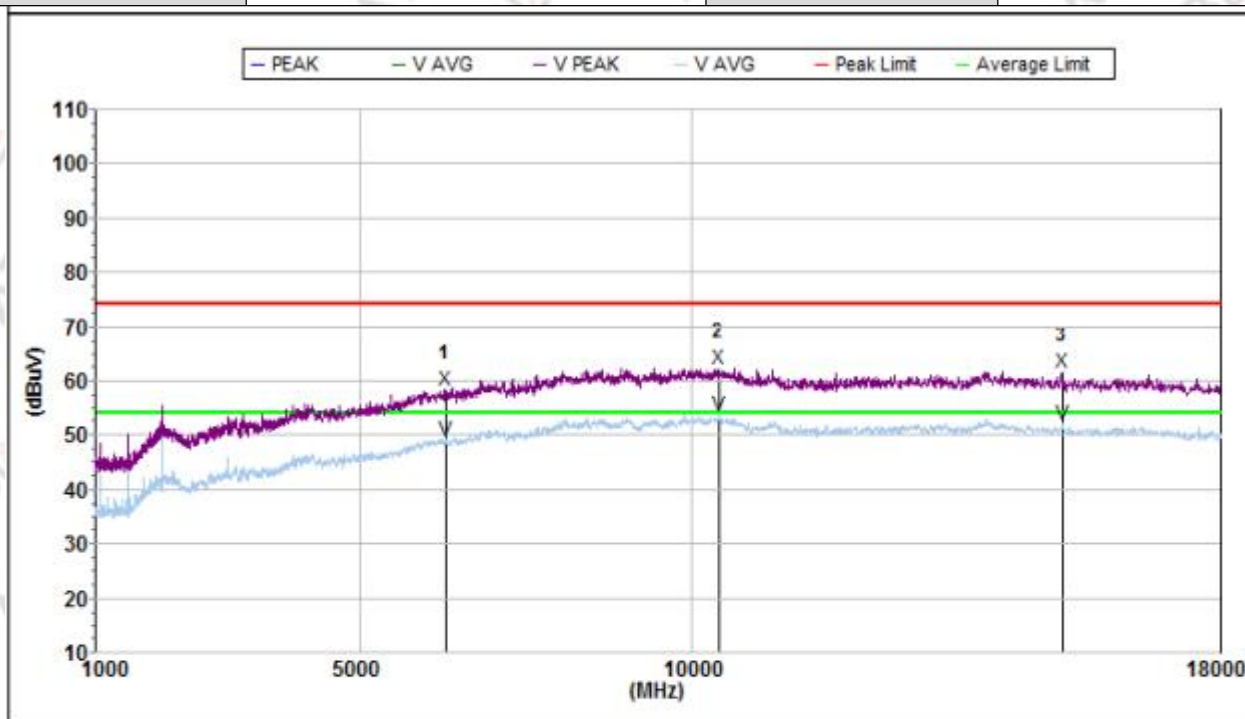
Mk.	Freq.(MHz)	Reading(dBuV/m)	Factor(dB)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Pd.
Peak							
1	5545.000	59.3	-3.3	56.0	74.0	18.0	V
2	9894.000	58.4	2.9	61.3	74.0	12.7	V
3	14478.000	58.6	2.5	61.1	74.0	12.9	V
Avg							
1	5545.000	50.0	-3.3	46.7	54.0	7.3	V
2	9894.000	49.3	2.9	52.2	54.0	1.8	V
3	14478.000	49.1	2.5	51.6	54.0	2.4	V

EUT	Smart Phone	Model Name	Note70 X
Test Mode	802.11ax40-TX Channel 9	Antenna Pol.	Horizontal



Mk.	Freq.(MHz)	Reading(dBuV/m)	Factor(dB)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Pd.
Peak							
1	6138.000	58.9	-3.0	55.9	74.0	18.1	H
2	13608.000	59.3	3.0	62.3	74.0	11.7	H
3	16986.000	58.9	4.0	62.9	74.0	11.1	H
Avg							
1	6138.000	49.2	-3.0	46.2	54.0	7.8	H
2	13608.000	50.8	3.0	53.8	54.0	0.2	H
3	16986.000	49.9	4.0	53.9	54.0	0.1	H

EUT	Smart Phone	Model Name	Note70 X
Test Mode	802.11ax40-TX Channel 9	Antenna Pol.	Vertical



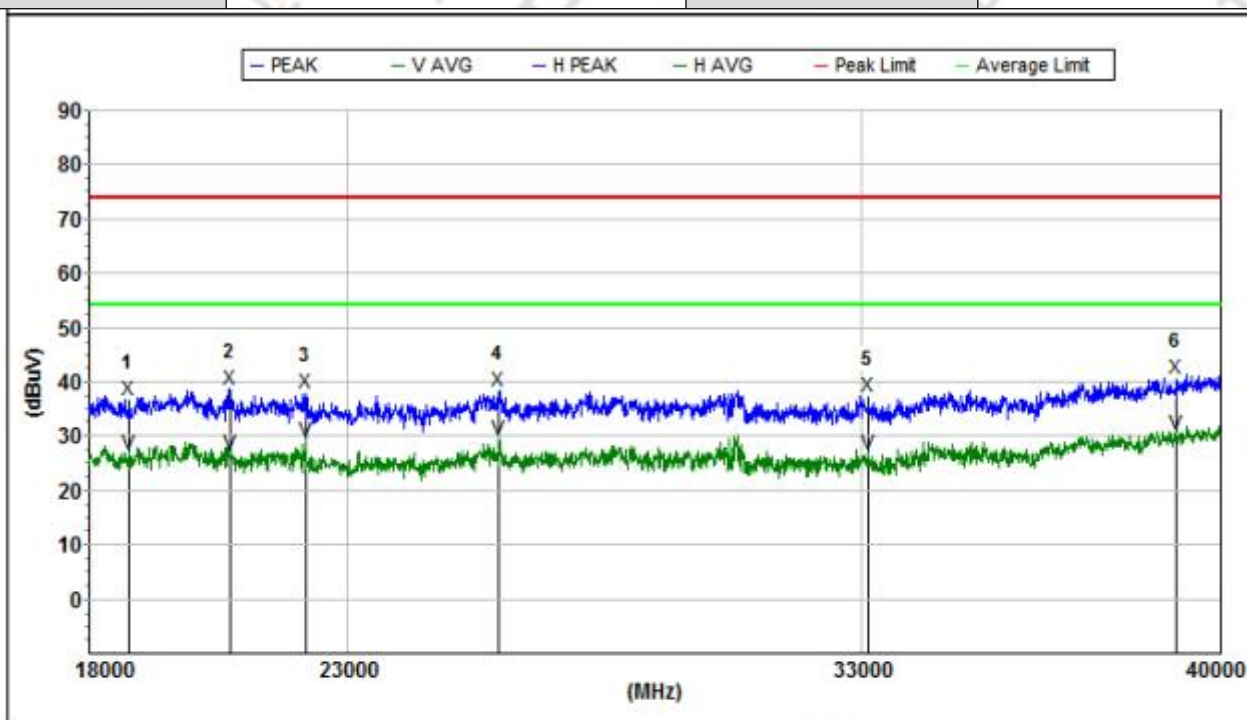
Mk.	Freq.(MHz)	Reading(dBuV/m)	Factor(dB)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Pd.
Peak:							
1	6306.000	58.8	-0.5	58.3	74.0	15.7	V
2	10416.000	59.1	3.3	62.4	74.0	11.6	V
3	15606.000	60.1	1.6	61.7	74.0	12.3	V
Avg							
1	6306.000	49.5	-0.5	49.0	54.0	5.0	V
2	10416.000	50.4	3.3	53.7	54.0	0.3	V
3	15606.000	50.5	1.6	52.1	54.0	1.9	V

18GHz-40GHz:

Note:

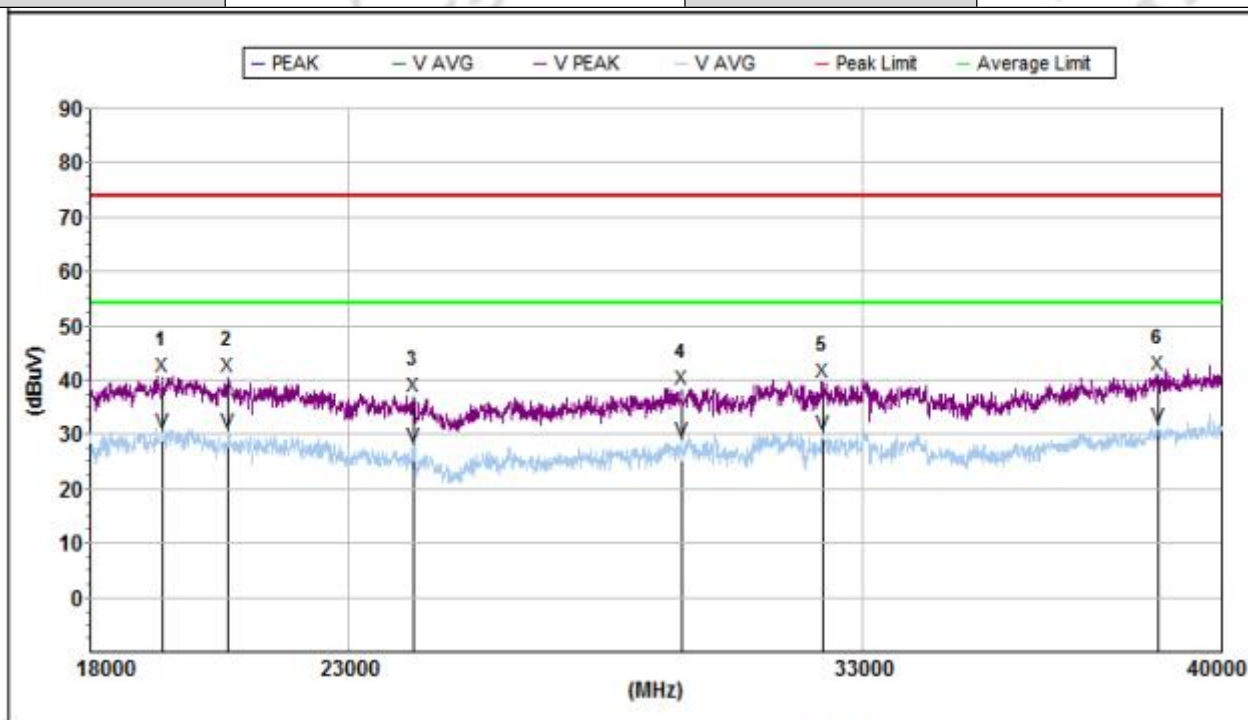
All modes have been tested, only worst (802.11ax40-TX Channel 3)mode was recorded in the test report.

EUT	Smart Phone	Model Name	Note70 X
Test Mode	802.11ax40-TX Channel 3	Antenna Pol.	Horizontal



Mk.	Freq.(MHz)	Reading(dBuV/m)	Factor(dB)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Pd.
Peak							
1	18781.000	58.5	-21.9	36.6	74.0	37.4	H
2	20739.000	59.6	-20.9	38.7	74.0	35.3	H
3	22202.000	59.7	-21.6	38.1	74.0	35.9	H
4	25964.000	56.1	-17.6	38.5	74.0	35.5	H
5	33136.000	54.6	-17.1	37.5	74.0	36.5	H
6	39142.000	55.9	-15.3	40.6	74.0	33.4	H
Avg							
1	18781.000	48.7	-21.9	26.8	54.0	27.2	H
2	20739.000	47.7	-20.9	26.8	54.0	27.2	H
3	22202.000	50.7	-21.6	29.1	54.0	24.9	H
4	25964.000	47.0	-17.6	29.4	54.0	24.6	H
5	33136.000	44.1	-17.1	27.0	54.0	27.0	H
6	39142.000	45.9	-15.3	30.6	54.0	23.4	H

EUT	Smart Phone	Model Name	Note70 X
Test Mode	802.11ax40-TX Channel 3	Antenna Pol.	Vertical



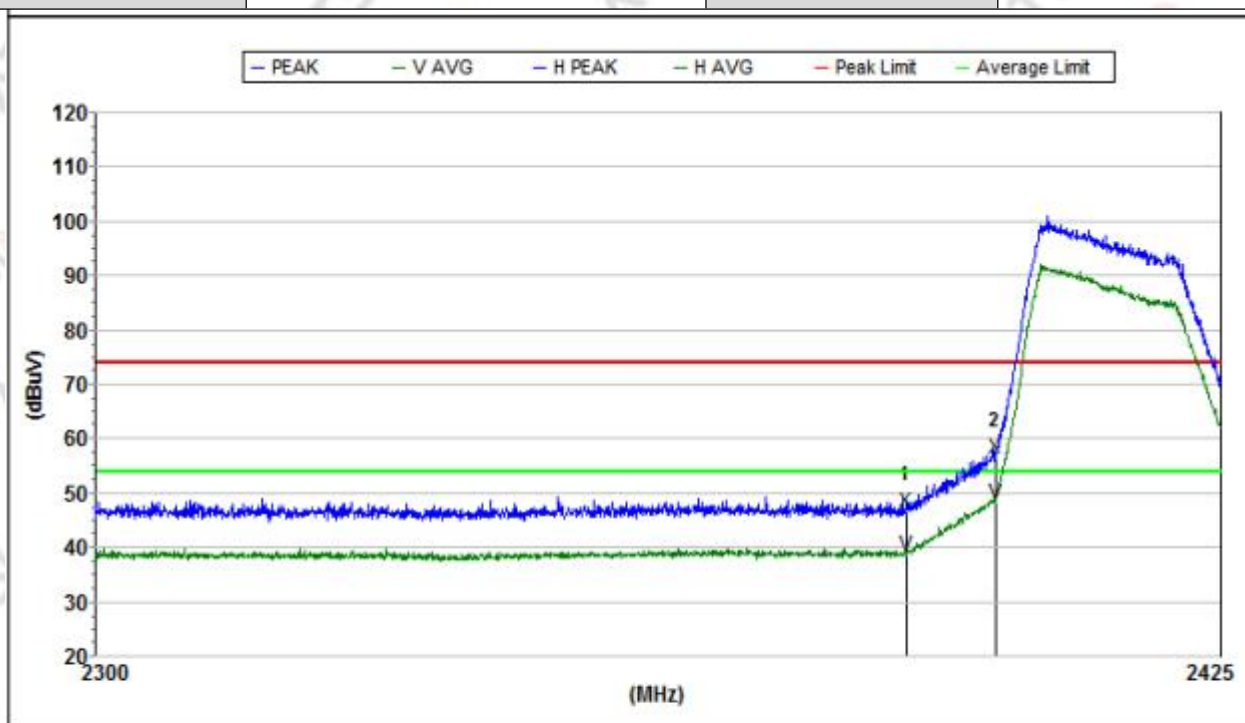
Mk.	Freq.(MHz)	Reading(dBuV/m)	Factor(dB)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Pd.
Peak:							
1	19408.000	57.0	-16.5	40.5	74.0	33.5	V
2	20684.000	56.6	-15.9	40.7	74.0	33.3	V
3	24270.000	53.8	-16.6	37.2	74.0	36.8	V
4	29495.000	54.5	-16.2	38.3	74.0	35.7	V
5	32234.000	56.3	-16.7	39.6	74.0	34.4	V
6	38779.000	56.5	-15.6	40.9	74.0	33.1	V
Avg							
1	19408.000	47.1	-16.5	30.6	54.0	23.4	V
2	20684.000	46.2	-15.9	30.3	54.0	23.7	V
3	24270.000	44.3	-16.6	27.7	54.0	26.3	V
4	29495.000	45.1	-16.2	28.9	54.0	25.1	V
5	32234.000	46.8	-16.7	30.1	54.0	23.9	V
6	38779.000	47.2	-15.6	31.6	54.0	22.4	V

Restricted Band:

Note:

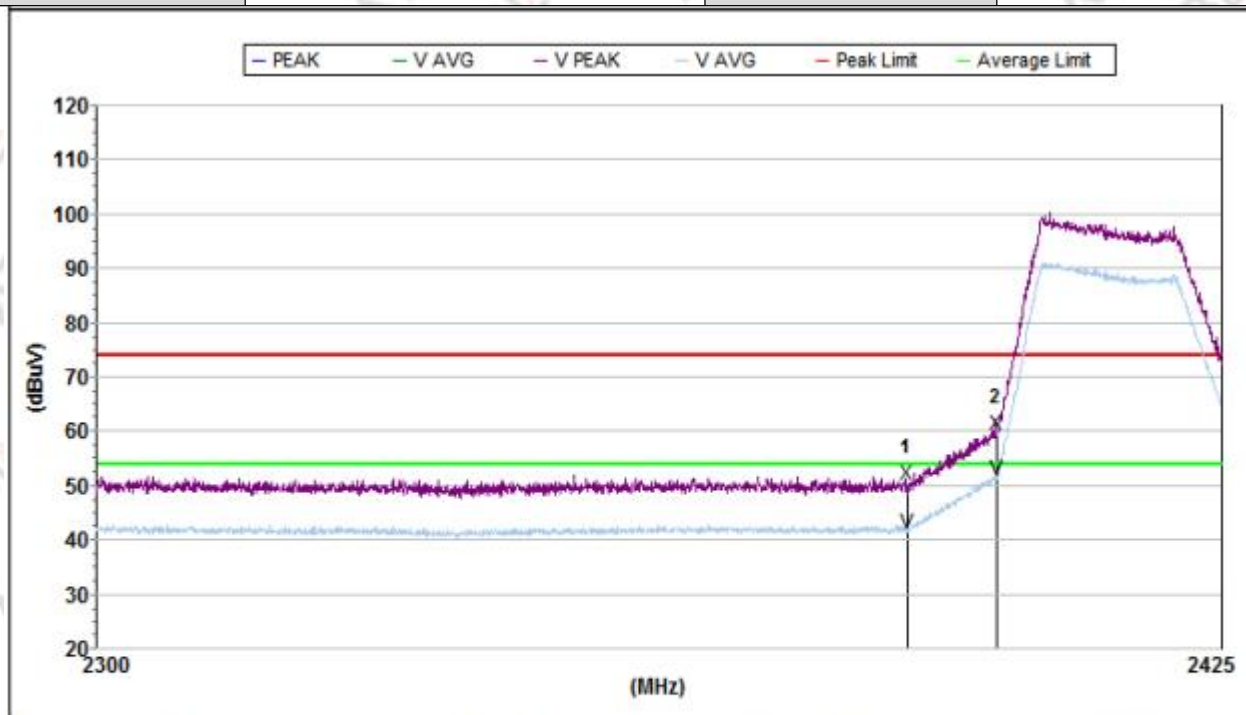
- 1.Only the worst 802.11AX data is represented in the report.
- 2.Margin=Level-Limit=Reading+factor-Limit

EUT	Smart Phone	Model Name	Note70 X
Test Mode	802.11ax20_CH1 2412	Antenna Pol.	Horizontal



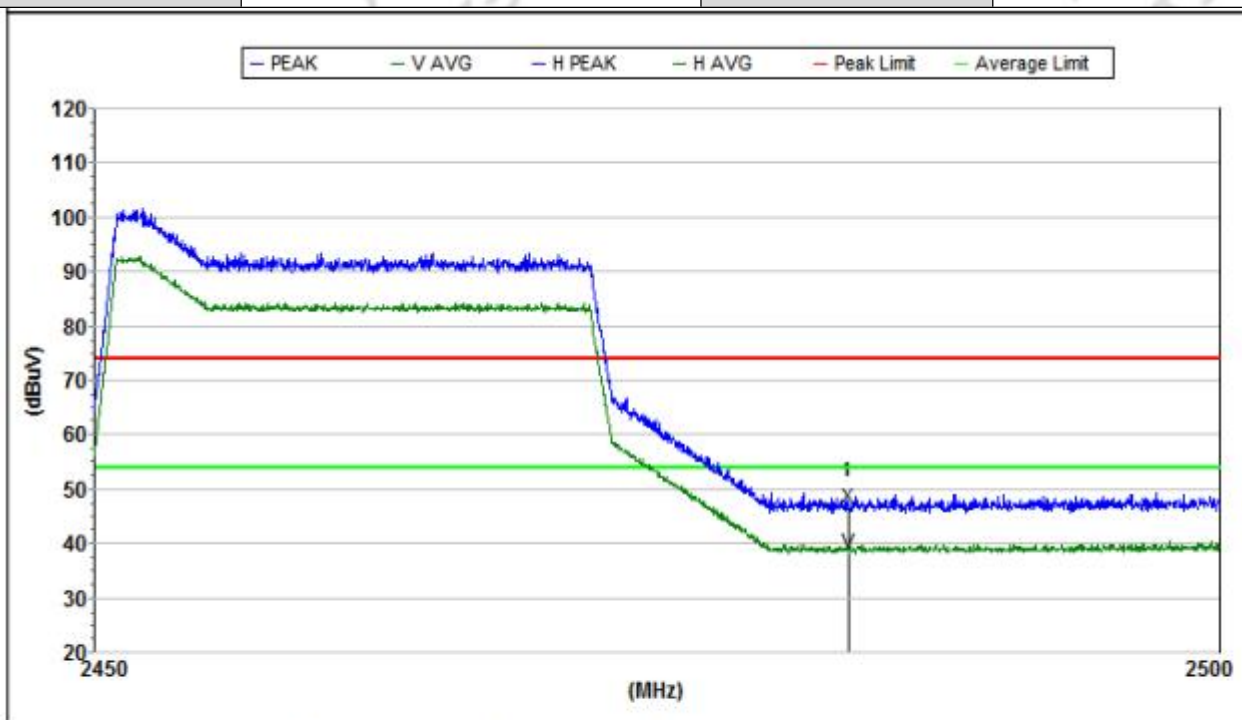
Mk.	Freq.(MHz)	Reading(dBuV/m)	Factor(dB)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Pd.
Peak:							
1	2390.000	57.3	-10.7	46.6	74.0	27.4	H
2	2400.000	57.5	-0.9	56.6	74.0	17.4	H
Avg							
1	2390.000	49.3	-10.7	38.6	54.0	15.4	H
2	2400.000	49.3	-0.9	48.4	54.0	5.6	H

EUT	Smart Phone	Model Name	Note70 X
Test Mode	802.11ax20_CH1 2412	Antenna Pol.	Vertical



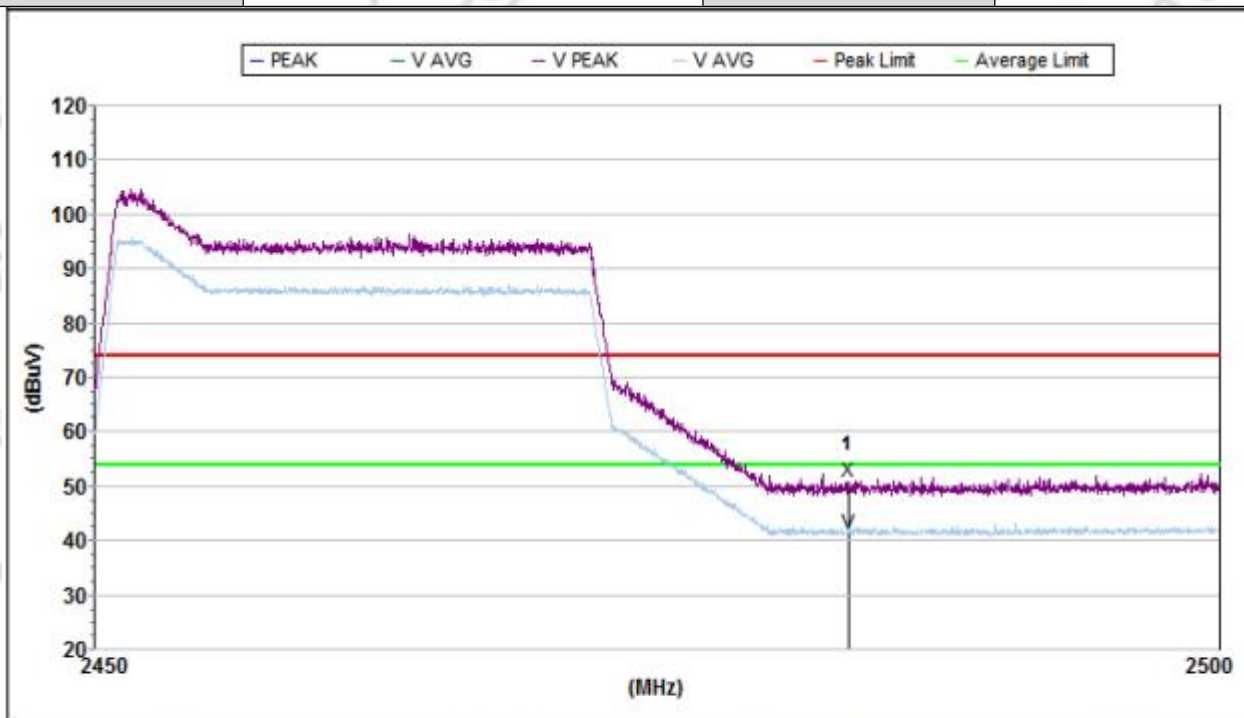
Mk.	Freq.(MHz)	Reading(dBuV/m)	Factor(dB)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Pd.
Peak							
1	2390.000	57.9	-7.8	50.1	74.0	23.9	V
2	2400.000	57.7	1.9	59.6	74.0	14.4	V
Avg							
1	2390.000	49.2	-7.8	41.4	54.0	12.6	V
2	2400.000	49.5	1.9	51.4	54.0	2.6	V

EUT	Smart Phone	Model Name	Note70 X
Test Mode	802.11ax20_CH11 2462	Antenna Pol.	Horizontal



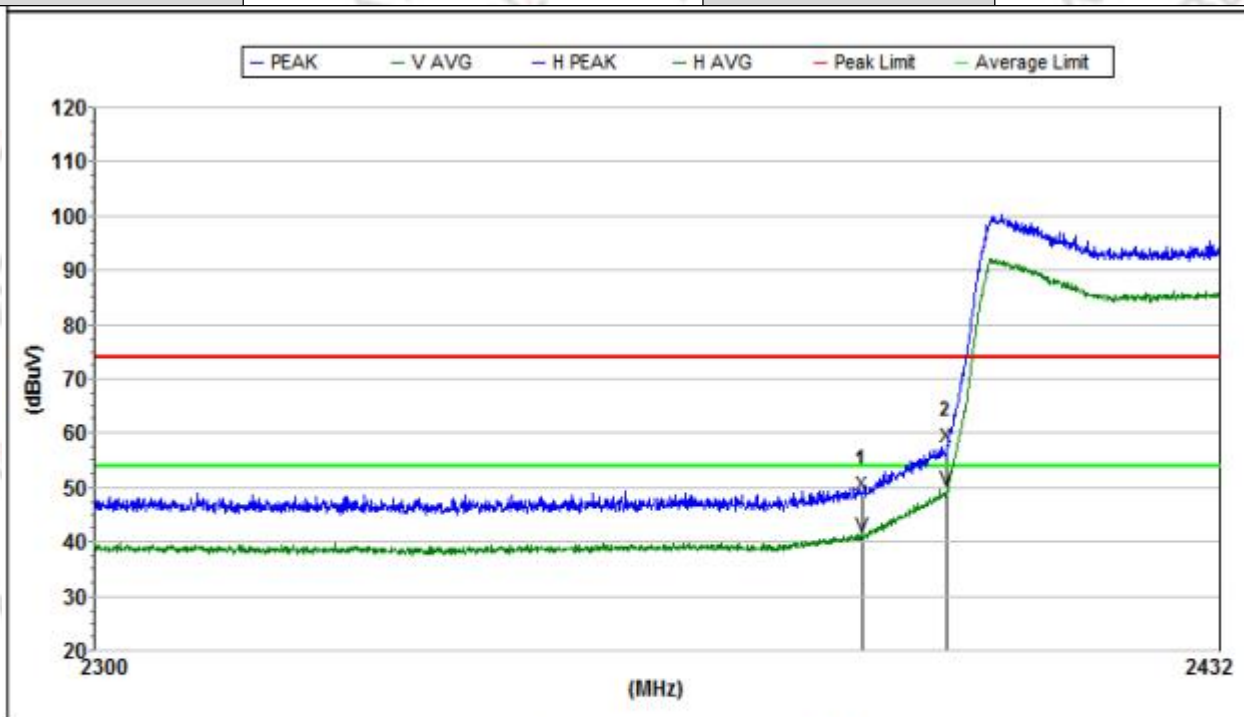
Mk.	Freq.(MHz)	Reading(dBuV/m)	Factor(dB)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Pd.
Peak							
1	2483.500	57.5	-10.8	46.7	74.0	27.3	H
Avg							
1	2483.500	49.2	-10.8	38.4	54.0	15.6	H

EUT	Smart Phone	Model Name	Note70 X
Test Mode	802.11ax20_CH11 2462	Antenna Pol.	Vertical



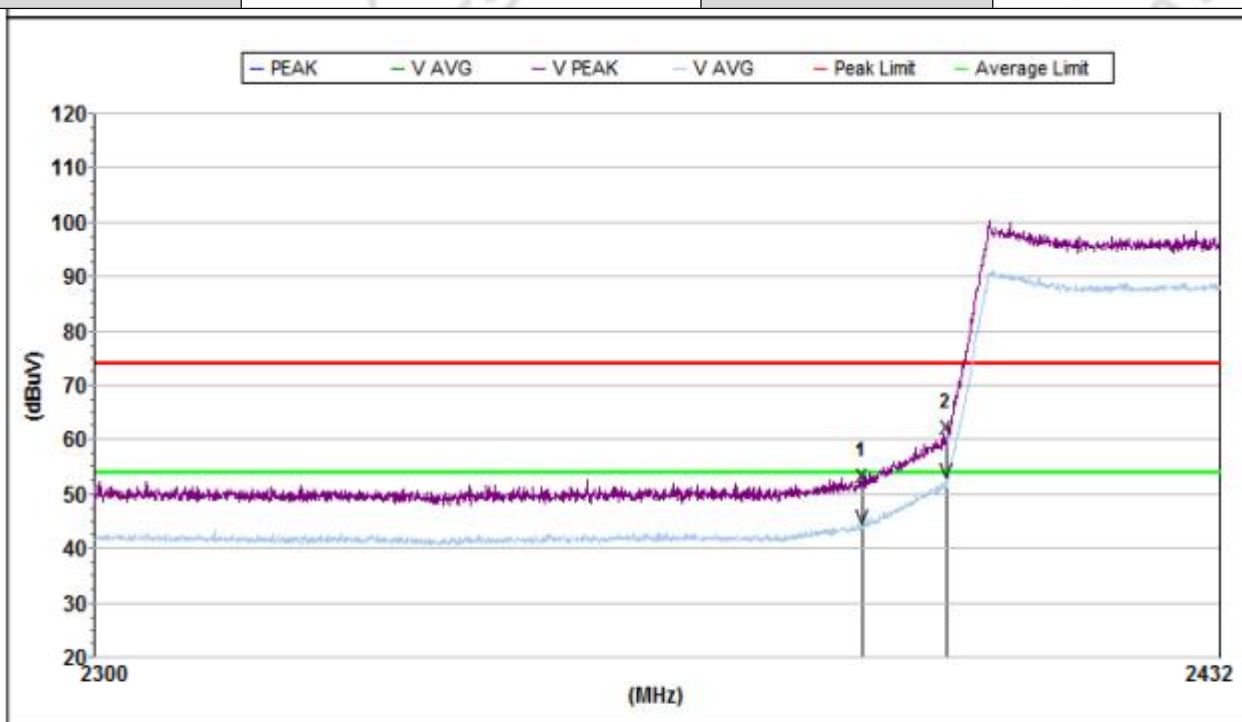
Mk.	Freq.(MHz)	Reading(dBuV/m)	Factor(dB)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Pd.
Peak							
1	2483.500	59.0	-8.2	50.8	74.0	23.2	V
Avg							
1	2483.500	49.7	-8.2	41.5	54.0	12.5	V

EUT	Smart Phone	Model Name	Note70 X
Test Mode	802.11ax40_CH3 2422	Antenna Pol.	Horizontal



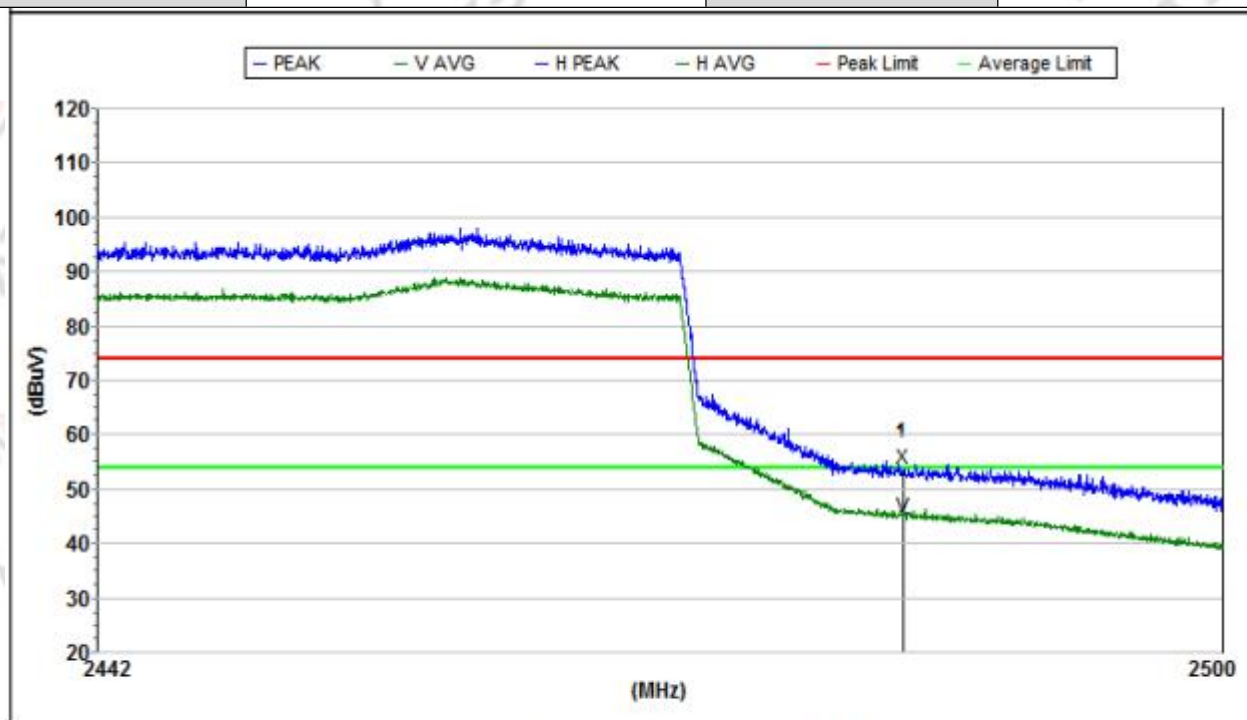
Mk.	Freq.(MHz)	Reading(dBuV/m)	Factor(dB)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Pd.
Peak							
1	2390.000	57.4	-8.7	48.7	74.0	25.3	H
2	2400.000	58.2	-0.7	57.5	74.0	16.5	H
Avg							
1	2390.000	49.8	-8.7	41.1	54.0	12.9	H
2	2400.000	50.2	-0.7	49.5	54.0	4.5	H

EUT	Smart Phone	Model Name	Note70 X
Test Mode	802.11ax40_CH3 2422	Antenna Pol.	Vertical



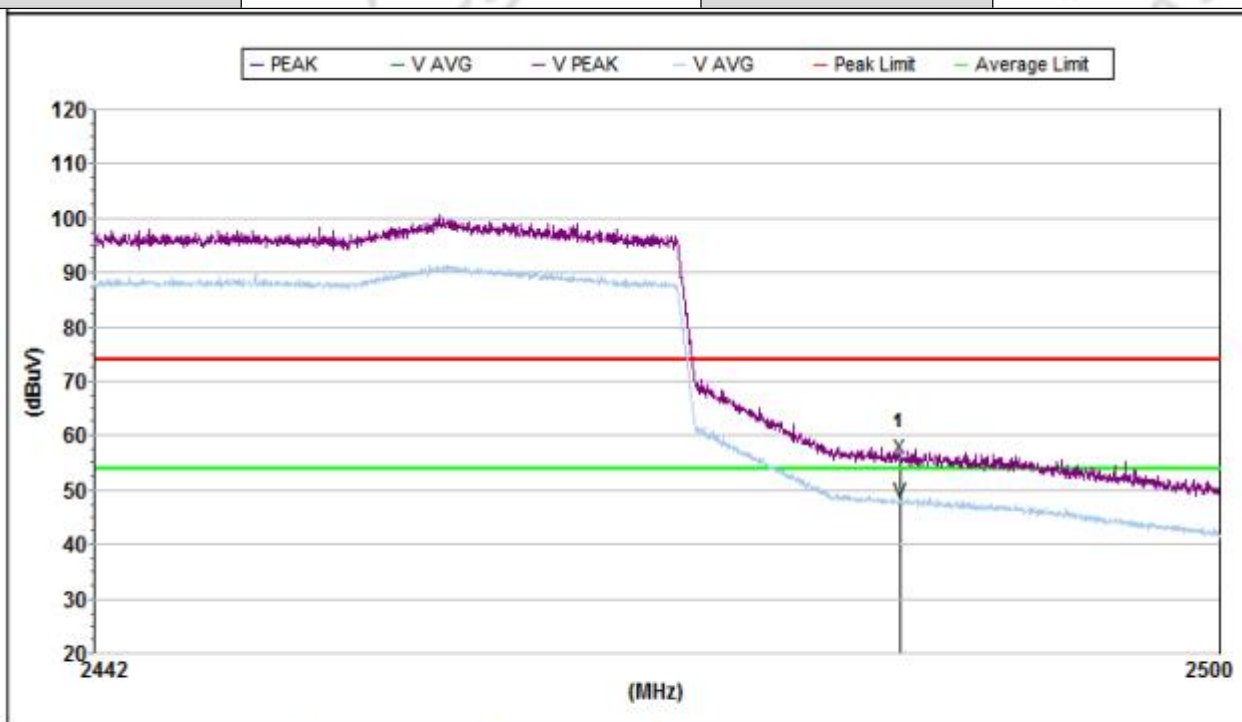
Mk.	Freq.(MHz)	Reading(dBuV/m)	Factor(dB)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Pd.
Peak:							
1	2390.000	57.1	-5.8	51.3	74.0	22.7	V
2	2400.000	58.0	2.1	60.1	74.0	13.9	V
Avg							
1	2390.000	49.5	-5.8	43.7	54.0	10.3	V
2	2400.000	50.2	2.1	52.3	54.0	1.7	V

EUT	Smart Phone	Model Name	Note70 X
Test Mode	802.11ax40_CH9 2452	Antenna Pol.	Horizontal



Mk.	Freq.(MHz)	Reading(dBuV/m)	Factor(dB)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Pd.
Peak							
1	2483.500	58.3	-4.5	53.8	74.0	20.2	H
Avg							
1	2483.500	49.4	-4.5	44.9	54.0	9.1	H

EUT	Smart Phone	Model Name	Note70 X
Test Mode	802.11ax40_CH9 2452	Antenna Pol.	Vertical



Mk.	Freq.(MHz)	Reading(dBuV/m)	Factor(dB)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Pd.
Peak							
1	2483.500	57.6	-1.9	55.7	74.0	18.3	V
Avg							
1	2483.500	49.9	-1.9	48.0	54.0	6.0	V

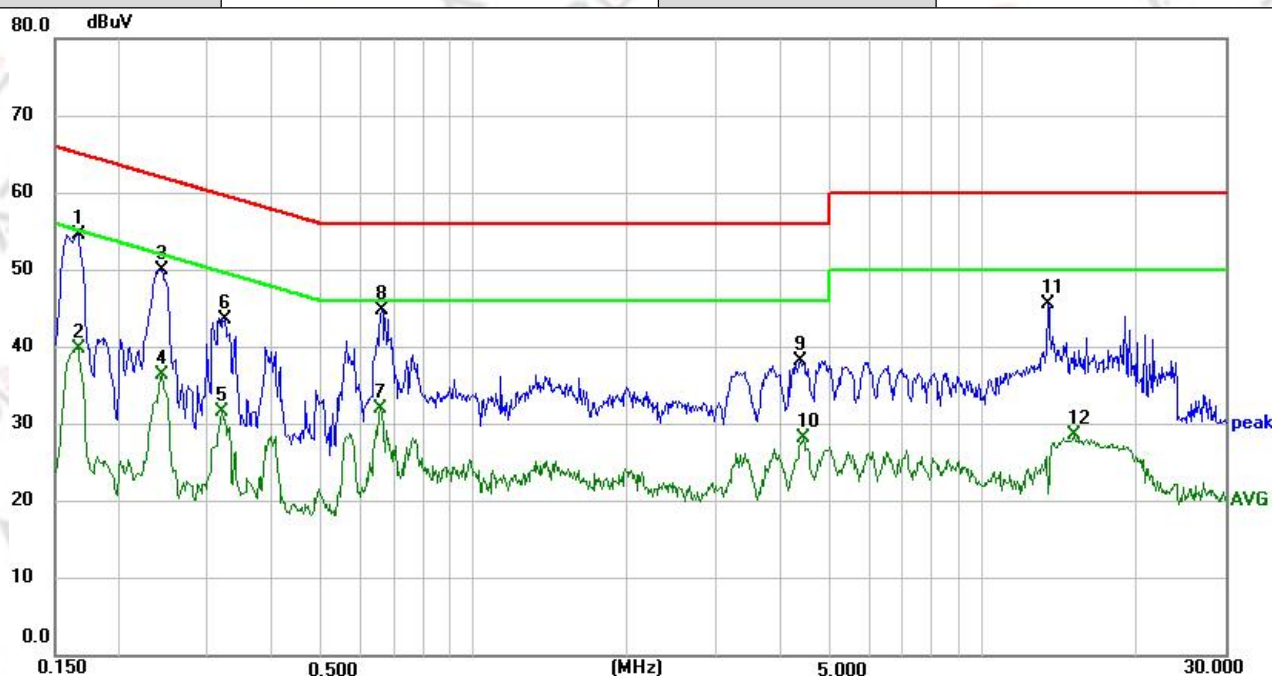
2.AC Power-Line Conducted Emission

Test Result

Note:

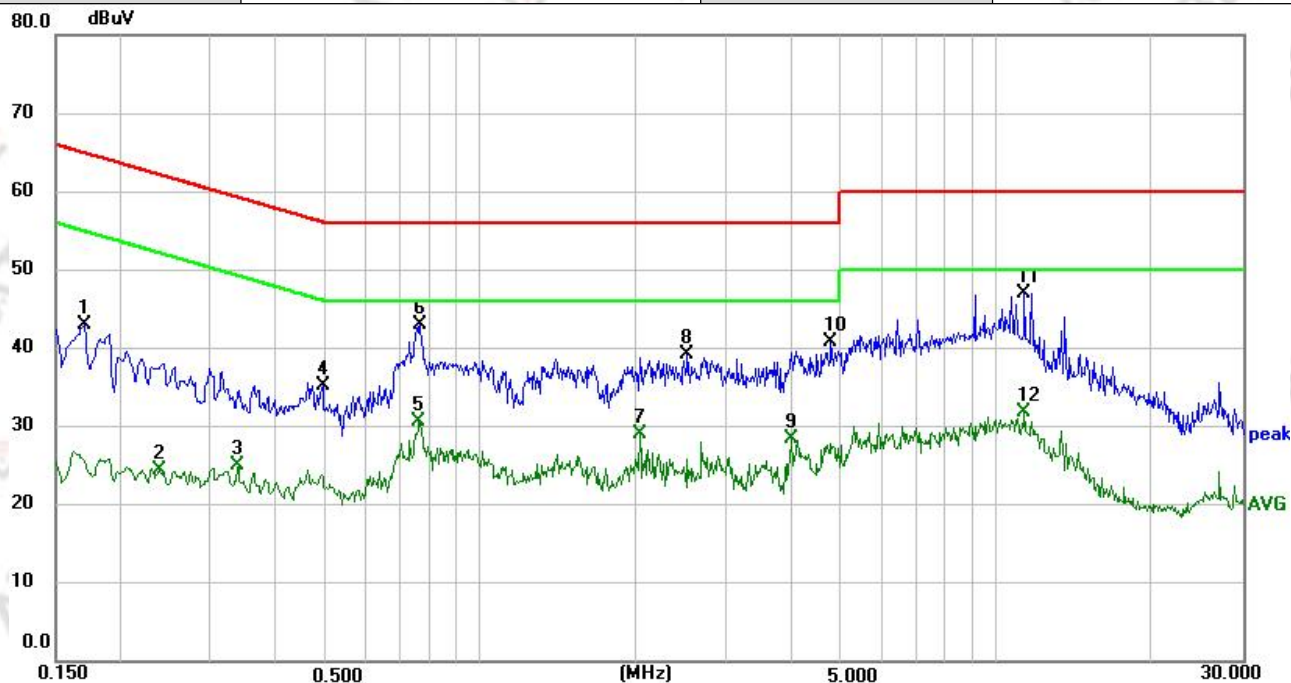
- 1.All modes have been tested, only worst mode(802.11ax40-TX Channel 3) was recorded in the test report.
- 2.Emission Level = Reading Value + Correction Factor .
3. Correction Factor = Insertion loss + Cable loss.
4. The emission levels of other frequencies were less than 20dB margin against the limit.
5. Margin value = Emission level-Limit value.

EUT	Smart Phone	Model Name	ORICO-H1-15-680-12256-S V
Test Mode	802.11ax40-TX Channel 3	Phase	L1



No.	Frequency (MHz)	Reading Level(dBuV)	Factor (dB)	Measurement(dBuV)	Limit (dBuV)	Margin (dB)	Detector
1 *	0.1660	34.90	19.74	54.64	65.16	-10.52	peak
2	0.1660	20.08	19.74	39.82	55.16	-15.34	AVG
3	0.2420	30.26	19.73	49.99	62.03	-12.04	peak
4	0.2420	16.63	19.73	36.36	52.03	-15.67	AVG
5	0.3200	11.76	19.80	31.56	49.71	-18.15	AVG
6	0.3220	23.83	19.80	43.63	59.66	-16.03	peak
7	0.6540	12.14	19.93	32.07	46.00	-13.93	AVG
8	0.6580	24.79	19.93	44.72	56.00	-11.28	peak
9	4.4060	17.97	20.33	38.30	56.00	-17.70	peak
10	4.4540	7.87	20.34	28.21	46.00	-17.79	AVG
11	13.4380	23.91	21.59	45.50	60.00	-14.50	peak
12	15.1100	6.60	22.07	28.67	50.00	-21.33	AVG

EUT	Smart Phone	Model Name	Note70 X
Test Mode	802.11ax40-TX Channel 3	Phase	N



No.	Frequency (MHz)	Reading Level(dBuV)	Factor (dB)	Measurement(dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1700	23.08	19.86	42.94	64.96	-22.02	peak
2	0.2380	4.43	19.96	24.39	52.17	-27.78	AVG
3	0.3379	5.24	19.83	25.07	49.25	-24.18	AVG
4	0.4940	15.69	19.56	35.25	56.10	-20.85	peak
5	0.7620	10.92	19.75	30.67	46.00	-15.33	AVG
6	0.7660	23.19	19.75	42.94	56.00	-13.06	peak
7	2.0340	8.99	20.07	29.06	46.00	-16.94	AVG
8	2.5140	19.05	20.08	39.13	56.00	-16.87	peak
9	4.0100	8.43	20.09	28.52	46.00	-17.48	AVG
10	4.7900	20.71	20.17	40.88	56.00	-15.12	peak
11 *	11.3180	26.08	21.00	47.08	60.00	-12.92	peak
12	11.3180	10.77	21.00	31.77	50.00	-18.23	AVG