

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-10-30

Tested By:

Guoyuan Lin

EUT:

In-vehicle Multimedia Host

Model Number:

MTCD03

Test Mode:

11AC20 5200 MHz TX Mode

Power Supply:

DC 12V

Condition:

Temp:21.9°C;Humi:51.0%

Test Site:

DDT 3# Chamber

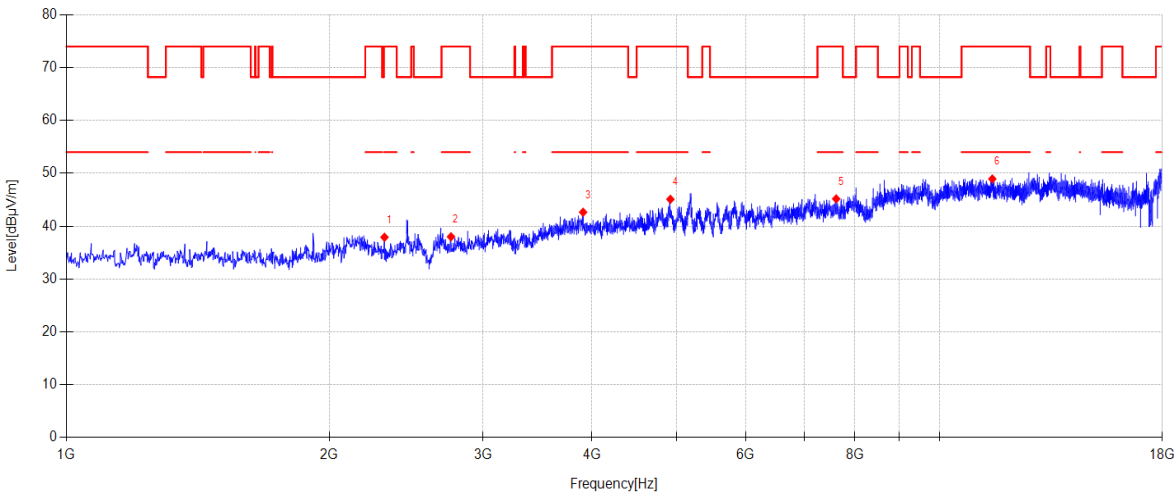
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d:\ts\2024 report data\Q24101411-1E\FCC RE Above 1G 5G\28

Memo:

Sample Number:S24101411 Power Setting:10

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2314.100	46.07	26.88	3.53	-38.58	37.90	74.00	36.10	PK	Vertical
2	2757.800	45.79	27.57	3.77	-39.13	38.00	74.00	36.00	PK	Vertical
3	3907.000	46.65	31.19	4.46	-39.66	42.64	74.00	31.36	PK	Vertical
4	4918.500	46.53	33.04	5.13	-39.61	45.09	74.00	28.91	PK	Vertical
5	7616.400	42.75	36.53	6.34	-40.45	45.17	74.00	28.83	PK	Vertical
6	11495.800	41.56	39.20	7.68	-39.50	48.94	74.00	25.06	PK	Vertical

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-10-30

Tested By:

Guoyuan Lin

EUT:

In-vehicle Multimedia Host

Model Number:

MTCD03

Test Mode:

11AC20 5240 MHz TX Mode

Power Supply:

DC 12V

Condition:

Temp:21.9°C;Humi:51.0%

Test Site:

DDT 3# Chamber

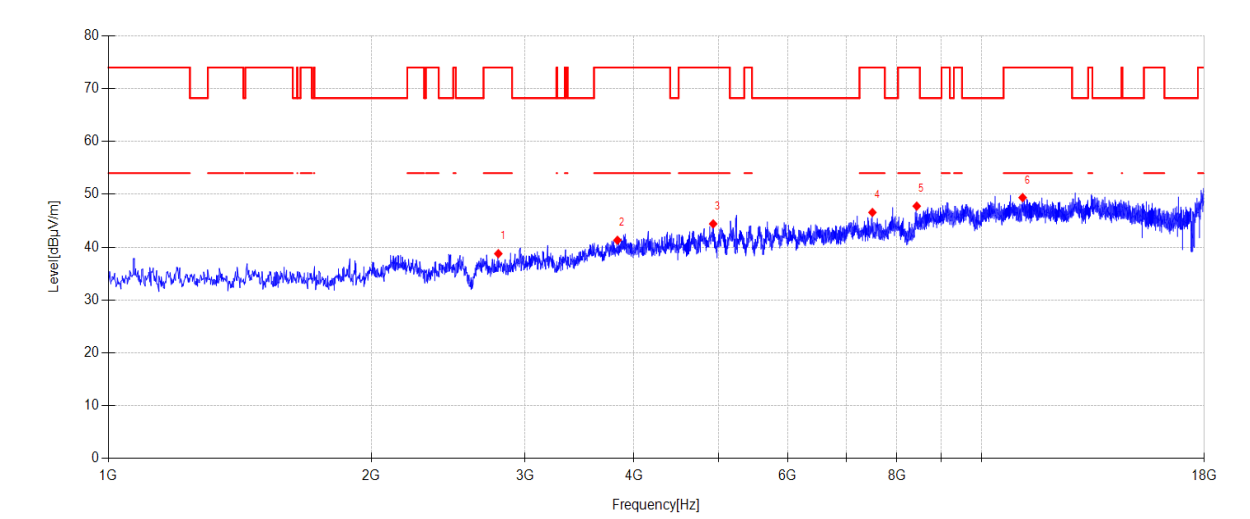
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Memo:

Sample Number:S24101411 Power Setting:10

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2796.900	46.74	27.41	3.80	-39.18	38.77	74.00	35.23	PK	Horizontal
2	3828.800	45.71	30.82	4.42	-39.64	41.31	74.00	32.69	PK	Horizontal
3	4928.700	45.83	33.06	5.13	-39.61	44.41	74.00	29.59	PK	Horizontal
4	7500.800	44.36	36.50	6.26	-40.55	46.57	74.00	27.43	PK	Horizontal
5	8430.700	43.03	37.50	6.77	-39.54	47.76	74.00	26.24	PK	Horizontal
6	11145.600	41.81	39.25	7.47	-39.15	49.38	74.00	24.62	PK	Horizontal

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-10-30

Tested By:

Guoyuan Lin

EUT:

In-vehicle Multimedia Host

Model Number:

MTCD03

Test Mode:

11AC20 5240 MHz TX Mode

Power Supply:

DC 12V

Condition:

Temp:21.9°C;Humi:51.0%

Test Site:

DDT 3# Chamber

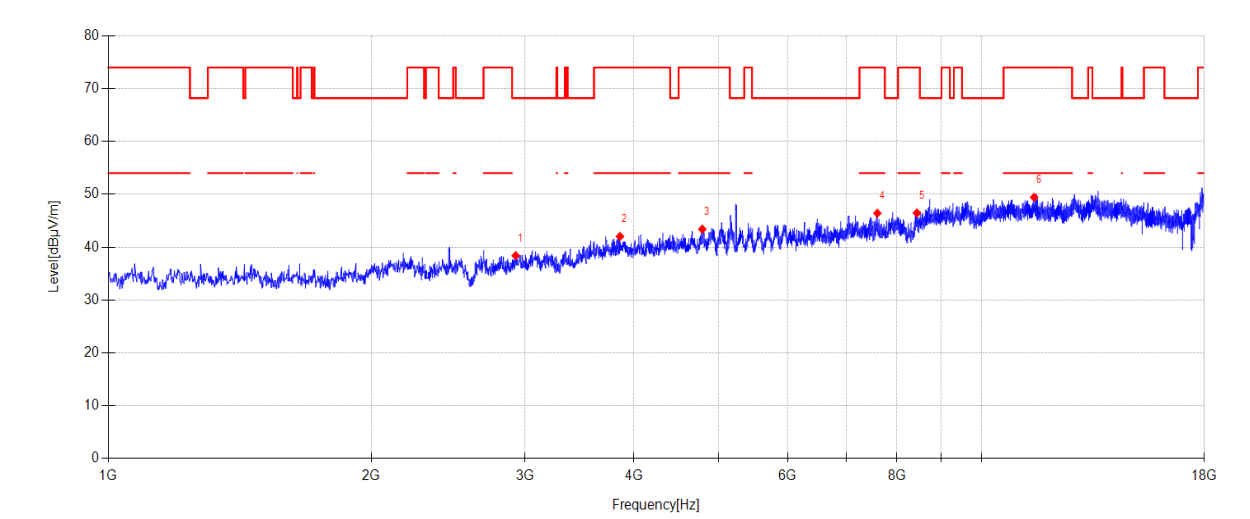
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Memo:

Sample Number:S24101411 Power Setting:10

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2927.800	45.57	28.31	3.87	-39.35	38.40	68.20	29.80	PK	Vertical
2	3854.300	46.32	30.93	4.43	-39.65	42.03	74.00	31.97	PK	Vertical
3	4789.300	45.52	32.46	5.04	-39.62	43.40	74.00	30.60	PK	Vertical
4	7599.400	44.05	36.50	6.33	-40.46	46.42	74.00	27.58	PK	Vertical
5	8434.100	41.73	37.50	6.77	-39.54	46.46	74.00	27.54	PK	Vertical
6	11490.700	42.04	39.21	7.68	-39.49	49.44	74.00	24.56	PK	Vertical

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-10-30

Tested By:

Guoyuan Lin

EUT:

In-vehicle Multimedia Host

Model Number:

MTCD03

Test Mode:

11AC20 5260 MHz TX Mode

Power Supply:

DC 12V

Condition:

Temp:21.9°C;Humi:51.0%

Test Site:

DDT 3# Chamber

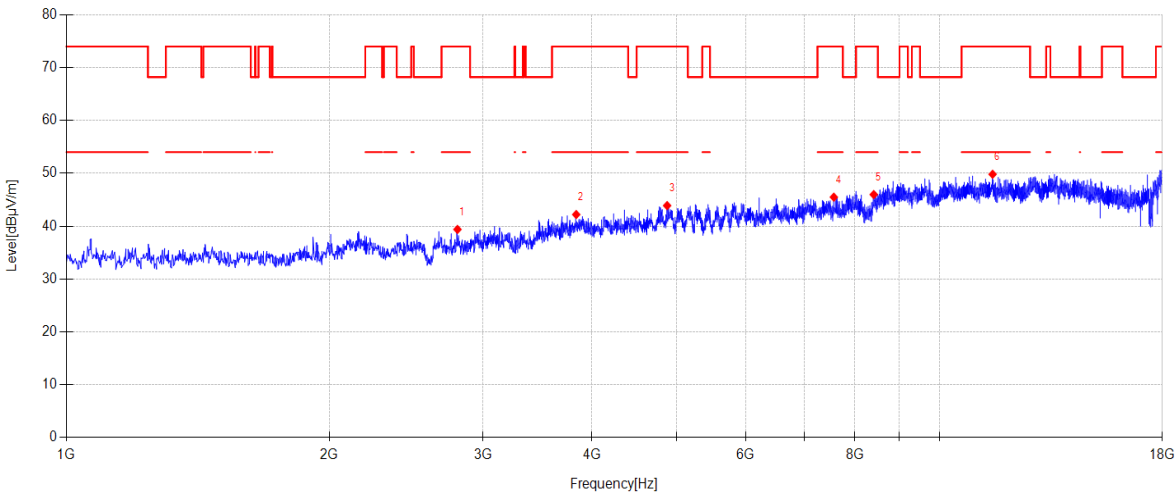
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Memo:

Sample Number:S24101411 Power Setting:10

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2805.400	47.33	27.44	3.80	-39.19	39.38	74.00	34.62	PK	Horizontal
2	3837.300	46.57	30.85	4.42	-39.64	42.20	74.00	31.80	PK	Horizontal
3	4876.000	45.02	33.38	5.10	-39.61	43.89	74.00	30.11	PK	Horizontal
4	7568.800	43.23	36.44	6.31	-40.49	45.49	74.00	28.51	PK	Horizontal
5	8408.600	41.29	37.50	6.76	-39.57	45.98	74.00	28.02	PK	Horizontal
6	11504.300	42.44	39.19	7.69	-39.50	49.82	74.00	24.18	PK	Horizontal

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-10-30

Tested By:

Guoyuan Lin

EUT:

In-vehicle Multimedia Host

Model Number:

MTCD03

Test Mode:

11AC20 5260 MHz TX Mode

Power Supply:

DC 12V

Condition:

Temp:21.9°C;Humi:51.0%

Test Site:

DDT 3# Chamber

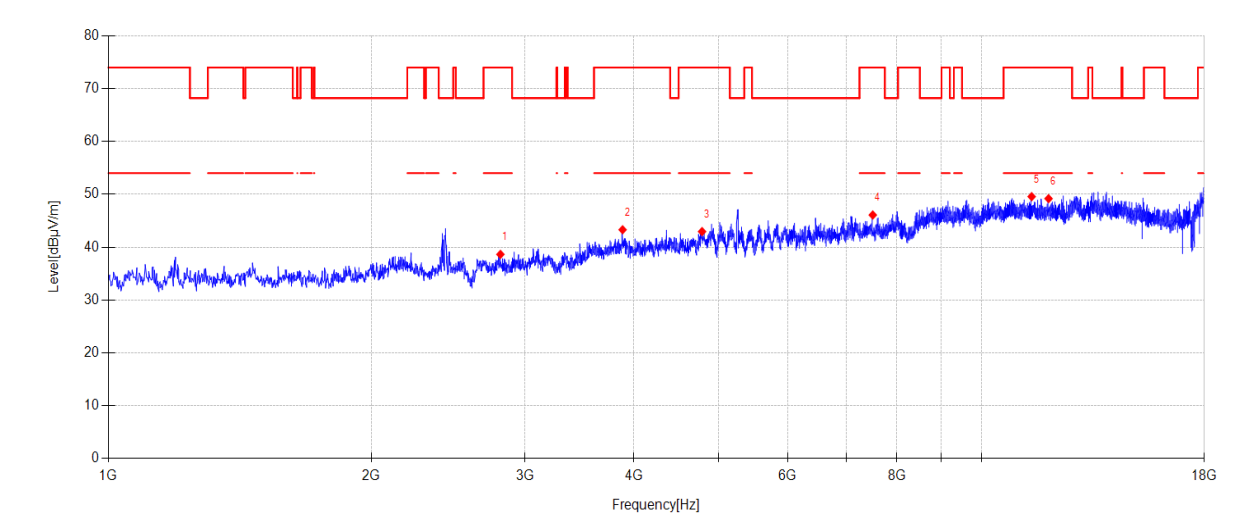
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Memo:

Sample Number:S24101411 Power Setting:10

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2812.200	46.54	27.50	3.80	-39.20	38.64	74.00	35.36	PK	Vertical
2	3881.500	47.41	31.09	4.45	-39.65	43.30	74.00	30.70	PK	Vertical
3	4785.900	45.09	32.44	5.04	-39.62	42.95	74.00	31.05	PK	Vertical
4	7507.600	43.87	36.48	6.27	-40.54	46.08	74.00	27.92	PK	Vertical
5	11415.900	42.07	39.28	7.63	-39.42	49.56	74.00	24.44	PK	Vertical
6	11936.100	42.16	39.01	7.95	-39.94	49.18	74.00	24.82	PK	Vertical

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-10-30

Tested By:

Guoyuan Lin

EUT:

In-vehicle Multimedia Host

Model Number:

MTCD03

Test Mode:

11AC20 5280 MHz TX Mode

Power Supply:

DC 12V

Condition:

Temp:21.9°C;Humi:51.0%

Test Site:

DDT 3# Chamber

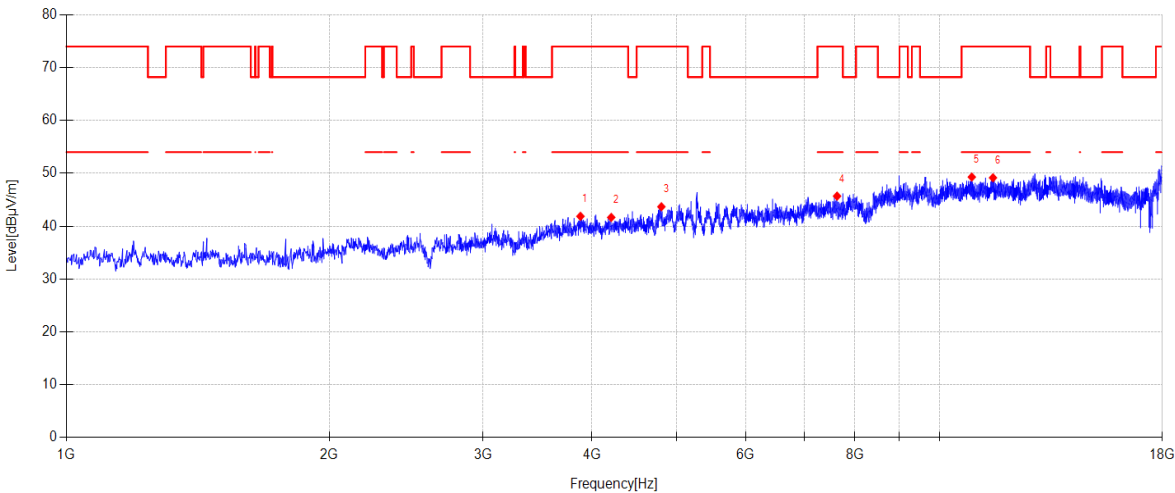
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Memo:

Sample Number:S24101411 Power Setting:10

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	3879.800	45.98	31.08	4.45	-39.65	41.86	74.00	32.14	PK	Horizontal
2	4207.900	45.43	31.23	4.66	-39.66	41.66	74.00	32.34	PK	Horizontal
3	4802.900	45.66	32.58	5.05	-39.62	43.67	74.00	30.33	PK	Horizontal
4	7633.400	43.19	36.57	6.35	-40.43	45.68	74.00	28.32	PK	Horizontal
5	10890.600	41.71	39.31	7.34	-39.07	49.29	74.00	24.71	PK	Horizontal
6	11516.200	41.82	39.17	7.69	-39.52	49.16	74.00	24.84	PK	Horizontal

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-10-30

Tested By:

Guoyuan Lin

EUT:

In-vehicle Multimedia Host

Model Number:

MTCD03

Test Mode:

11AC20 5280 MHz TX Mode

Power Supply:

DC 12V

Condition:

Temp:21.9°C;Humi:51.0%

Test Site:

DDT 3# Chamber

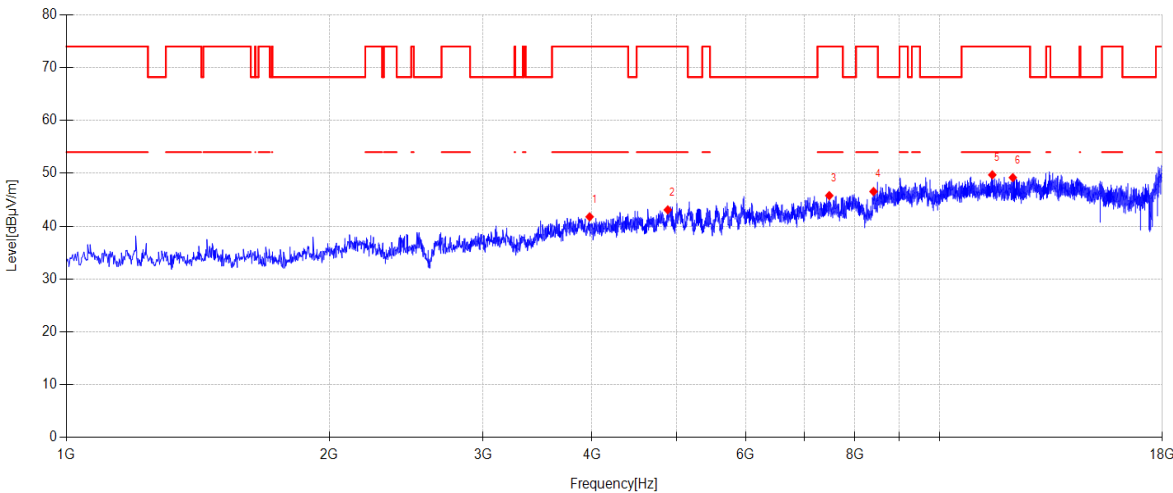
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Memo:

Sample Number:S24101411 Power Setting:10

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	3975.000	45.94	31.00	4.50	-39.67	41.77	74.00	32.23	PK	Vertical
2	4884.500	44.34	33.25	5.10	-39.61	43.08	74.00	30.92	PK	Vertical
3	7478.700	43.56	36.54	6.25	-40.57	45.78	74.00	28.22	PK	Vertical
4	8403.500	41.87	37.50	6.76	-39.58	46.55	74.00	27.45	PK	Vertical
5	11495.800	42.33	39.20	7.68	-39.50	49.71	74.00	24.29	PK	Vertical
6	12135.000	41.81	39.30	8.05	-39.97	49.19	74.00	24.81	PK	Vertical

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-10-30

Tested By:

Guoyuan Lin

EUT:

In-vehicle Multimedia Host

Model Number:

MTCD03

Test Mode:

11AC20 5320 MHz TX Mode

Power Supply:

DC 12V

Condition:

Temp:21.9°C;Humi:51.0%

Test Site:

DDT 3# Chamber

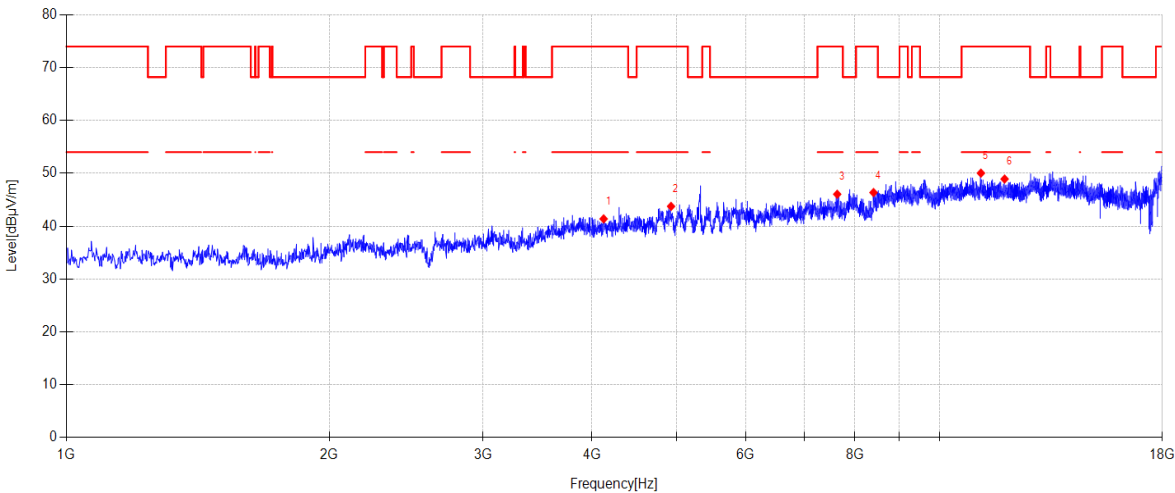
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Memo:

Sample Number:S24101411 Power Setting:10

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	4124.600	45.30	31.15	4.60	-39.67	41.38	74.00	32.62	PK	Horizontal
2	4927.000	45.18	33.05	5.13	-39.61	43.75	74.00	30.25	PK	Horizontal
3	7636.800	43.55	36.57	6.35	-40.43	46.04	74.00	27.96	PK	Horizontal
4	8405.200	41.67	37.50	6.76	-39.57	46.36	74.00	27.64	PK	Horizontal
5	11155.800	42.47	39.24	7.48	-39.16	50.03	74.00	23.97	PK	Horizontal
6	11874.900	41.98	38.90	7.91	-39.87	48.92	74.00	25.08	PK	Horizontal

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-10-30

Tested By:

Guoyuan Lin

EUT:

In-vehicle Multimedia Host

Model Number:

MTCD03

Test Mode:

11AC20 5320 MHz TX Mode

Power Supply:

DC 12V

Condition:

Temp:21.9°C;Humi:51.0%

Test Site:

DDT 3# Chamber

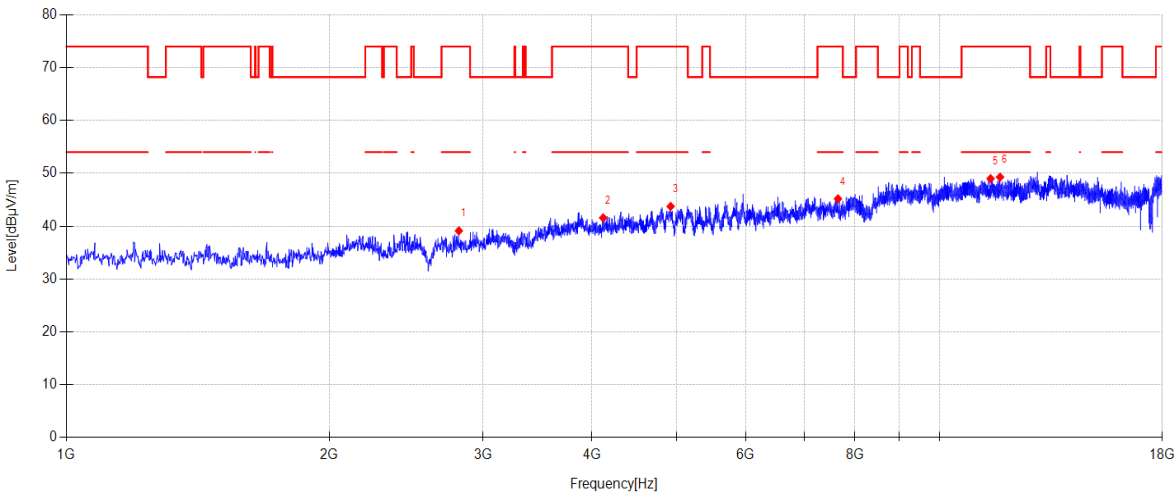
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Memo:

Sample Number:S24101411 Power Setting:10

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2815.600	46.99	27.52	3.81	-39.21	39.11	74.00	34.89	PK	Vertical
2	4119.500	45.51	31.14	4.60	-39.67	41.58	74.00	32.42	PK	Vertical
3	4921.900	45.18	33.04	5.13	-39.61	43.74	74.00	30.26	PK	Vertical
4	7652.100	42.63	36.60	6.36	-40.41	45.18	74.00	28.82	PK	Vertical
5	11443.100	41.52	39.26	7.65	-39.44	48.99	74.00	25.01	PK	Vertical
6	11732.100	42.21	38.97	7.83	-39.73	49.28	74.00	24.72	PK	Vertical

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-10-30

Tested By:

Guoyuan Lin

EUT:

In-vehicle Multimedia Host

Model Number:

MTCD03

Test Mode:

11AC20 5500 MHz TX Mode

Power Supply:

DC 12V

Condition:

Temp:21.9°C;Humi:51.0%

Test Site:

DDT 3# Chamber

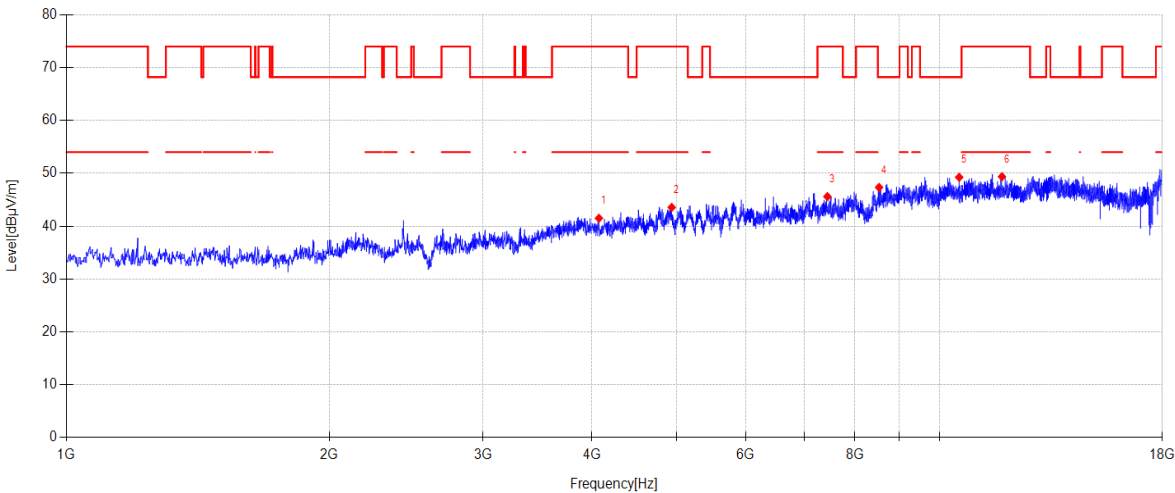
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Memo:

Sample Number:S24101411 Power Setting:10

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	4073.600	45.55	31.05	4.57	-39.67	41.50	74.00	32.50	PK	Horizontal
2	4935.500	44.96	33.07	5.14	-39.61	43.56	74.00	30.44	PK	Horizontal
3	7441.300	43.36	36.62	6.22	-40.60	45.60	74.00	28.40	PK	Horizontal
4	8527.600	42.13	37.81	6.81	-39.41	47.34	68.20	20.86	PK	Horizontal
5	10533.600	42.17	39.13	7.23	-39.28	49.25	68.20	18.95	PK	Horizontal
6	11791.600	42.39	38.91	7.86	-39.79	49.37	74.00	24.63	PK	Horizontal

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-10-30

Tested By:

Guoyuan Lin

EUT:

In-vehicle Multimedia Host

Model Number:

MTCD03

Test Mode:

11AC20 5500 MHz TX Mode

Power Supply:

DC 12V

Condition:

Temp:21.9°C;Humi:51.0%

Test Site:

DDT 3# Chamber

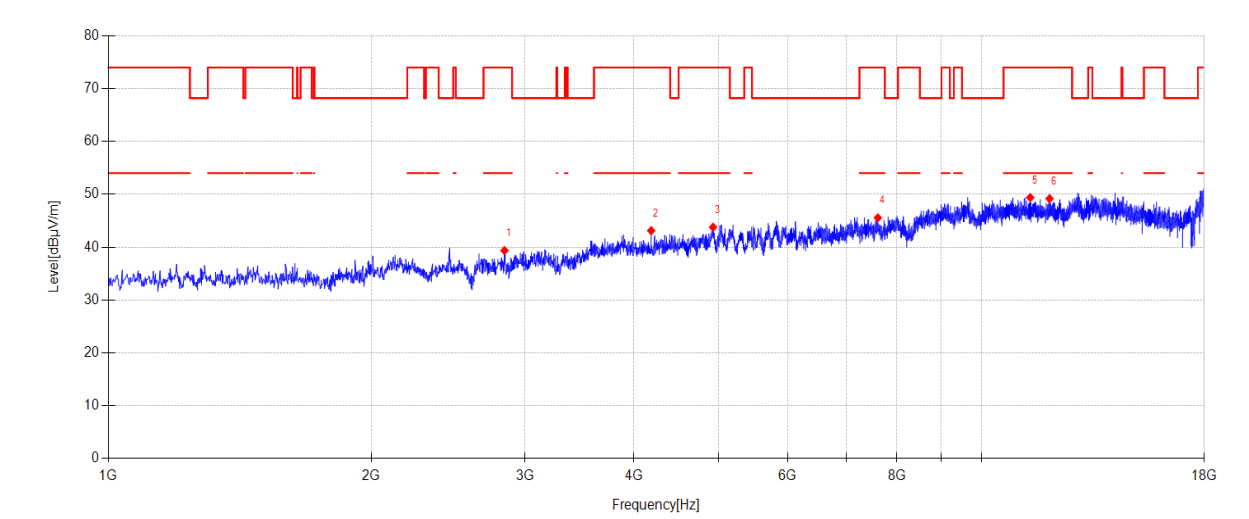
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Memo:

Sample Number:S24101411 Power Setting:10

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2842.800	47.04	27.74	3.82	-39.24	39.36	74.00	34.64	PK	Vertical
2	4185.800	46.96	31.20	4.64	-39.67	43.13	74.00	30.87	PK	Vertical
3	4927.000	45.21	33.05	5.13	-39.61	43.78	74.00	30.22	PK	Vertical
4	7609.600	43.16	36.52	6.33	-40.45	45.56	74.00	28.44	PK	Vertical
5	11373.400	41.87	39.27	7.61	-39.37	49.38	74.00	24.62	PK	Vertical
6	11966.700	42.08	39.10	7.97	-39.97	49.18	74.00	24.82	PK	Vertical

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-10-30

Tested By:

Guoyuan Lin

EUT:

In-vehicle Multimedia Host

Model Number:

MTCD03

Test Mode:

11AC20 5580 MHz TX Mode

Power Supply:

DC 12V

Condition:

Temp:21.9°C;Humi:51.0%

Test Site:

DDT 3# Chamber

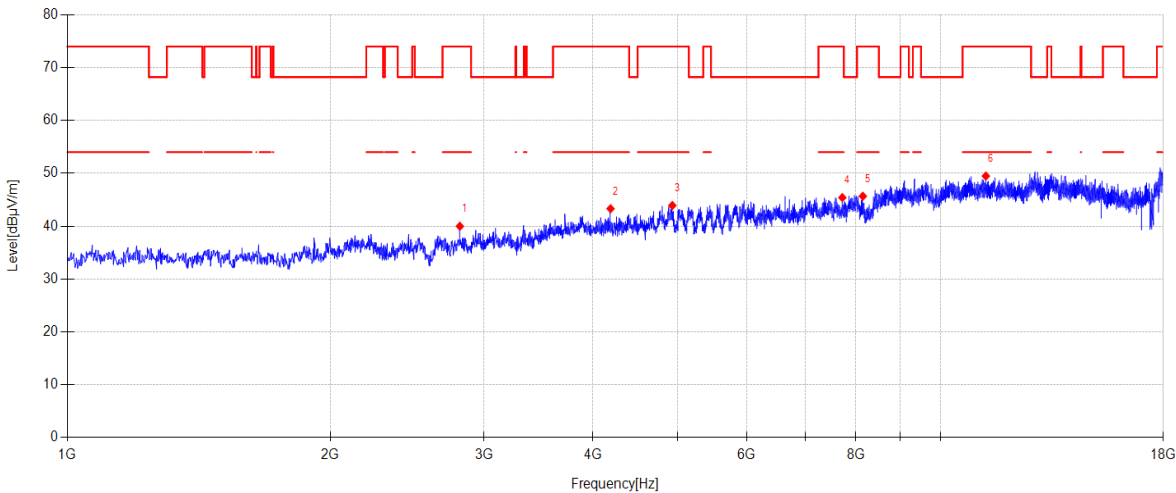
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Memo:

Sample Number:S24101411 Power Setting:10

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2815.600	47.87	27.52	3.81	-39.21	39.99	74.00	34.01	PK	Horizontal
2	4189.200	47.12	31.20	4.64	-39.66	43.30	74.00	30.70	PK	Horizontal
3	4930.400	45.33	33.06	5.13	-39.61	43.91	74.00	30.09	PK	Horizontal
4	7720.100	42.61	36.74	6.41	-40.35	45.41	74.00	28.59	PK	Horizontal
5	8148.500	41.72	37.20	6.66	-39.91	45.67	74.00	28.33	PK	Horizontal
6	11271.400	42.00	39.20	7.55	-39.27	49.48	74.00	24.52	PK	Horizontal

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-10-30

Tested By:

Guoyuan Lin

EUT:

In-vehicle Multimedia Host

Model Number:

MTCD03

Test Mode:

11AC20 5580 MHz TX Mode

Power Supply:

DC 12V

Condition:

Temp:21.9°C;Humi:51.0%

Test Site:

DDT 3# Chamber

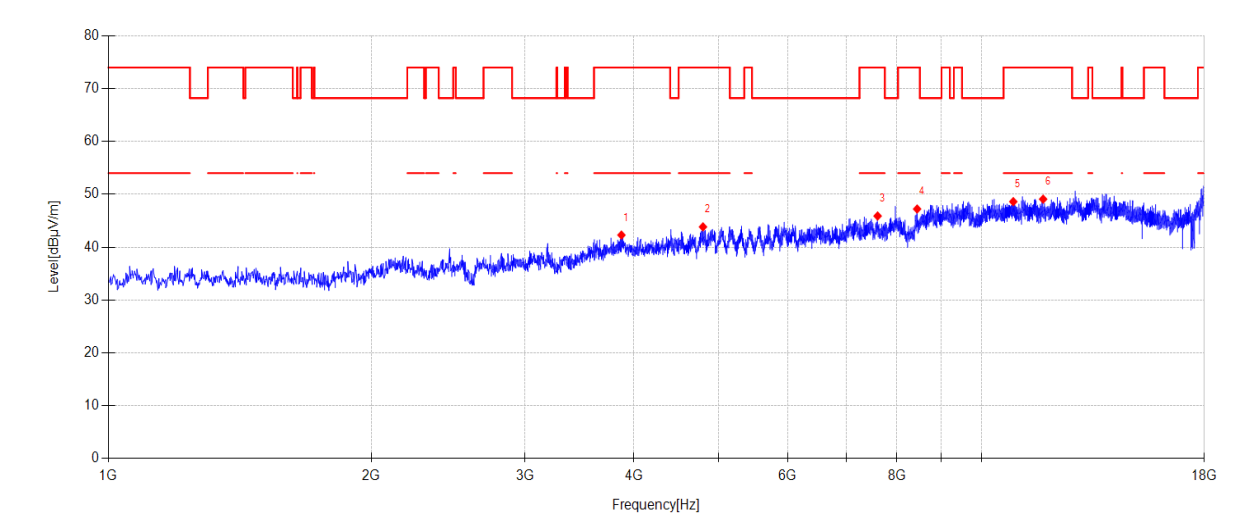
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Memo:

Sample Number:S24101411 Power Setting:10

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	3869.600	46.48	31.02	4.44	-39.65	42.29	74.00	31.71	PK	Vertical
2	4797.800	45.92	32.49	5.05	-39.62	43.84	74.00	30.16	PK	Vertical
3	7604.500	43.51	36.51	6.33	-40.46	45.89	74.00	28.11	PK	Vertical
4	8439.200	42.47	37.50	6.78	-39.53	47.22	74.00	26.78	PK	Vertical
5	10875.300	41.02	39.32	7.34	-39.07	48.61	74.00	25.39	PK	Vertical
6	11766.100	42.07	38.93	7.85	-39.77	49.08	74.00	24.92	PK	Vertical

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-10-30

Tested By:

Guoyuan Lin

EUT:

In-vehicle Multimedia Host

Model Number:

MTCD03

Test Mode:

11AC20 5700 MHz TX Mode

Power Supply:

DC 12V

Condition:

Temp:21.9°C;Humi:51.0%

Test Site:

DDT 3# Chamber

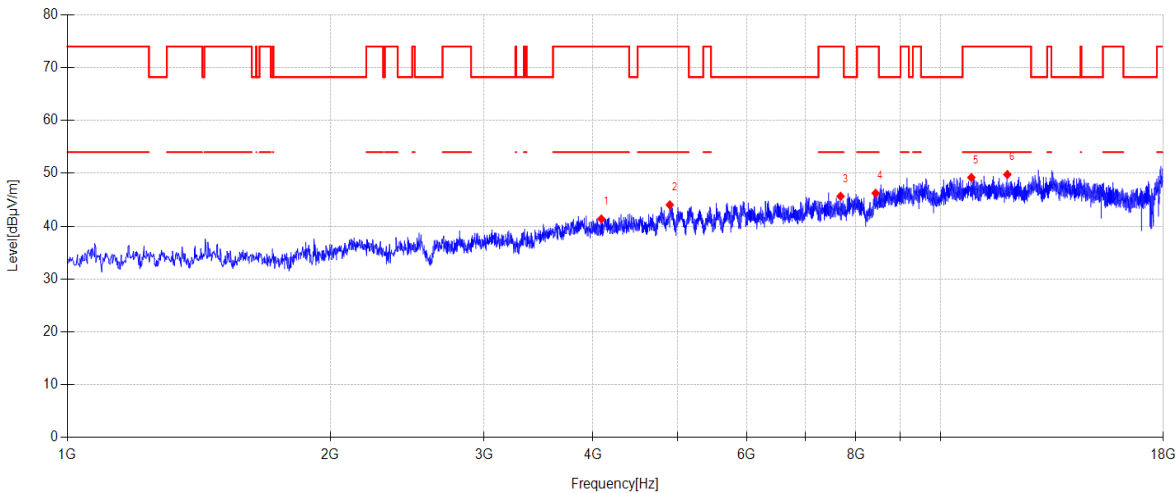
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Memo:

Sample Number:S24101411 Power Setting:10

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	4088.900	45.38	31.08	4.58	-39.67	41.37	74.00	32.63	PK	Horizontal
2	4898.100	45.50	33.03	5.11	-39.61	44.03	74.00	29.97	PK	Horizontal
3	7684.400	42.97	36.67	6.39	-40.38	45.65	74.00	28.35	PK	Horizontal
4	8429.000	41.50	37.50	6.77	-39.54	46.23	74.00	27.77	PK	Horizontal
5	10849.800	41.61	39.35	7.33	-39.09	49.20	74.00	24.80	PK	Horizontal
6	11927.600	42.77	38.98	7.95	-39.93	49.77	74.00	24.23	PK	Horizontal

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-10-30

Tested By:

Guoyuan Lin

EUT:

In-vehicle Multimedia Host

Model Number:

MTCD03

Test Mode:

11AC20 5700 MHz TX Mode

Power Supply:

DC 12V

Condition:

Temp:21.9°C;Humi:51.0%

Test Site:

DDT 3# Chamber

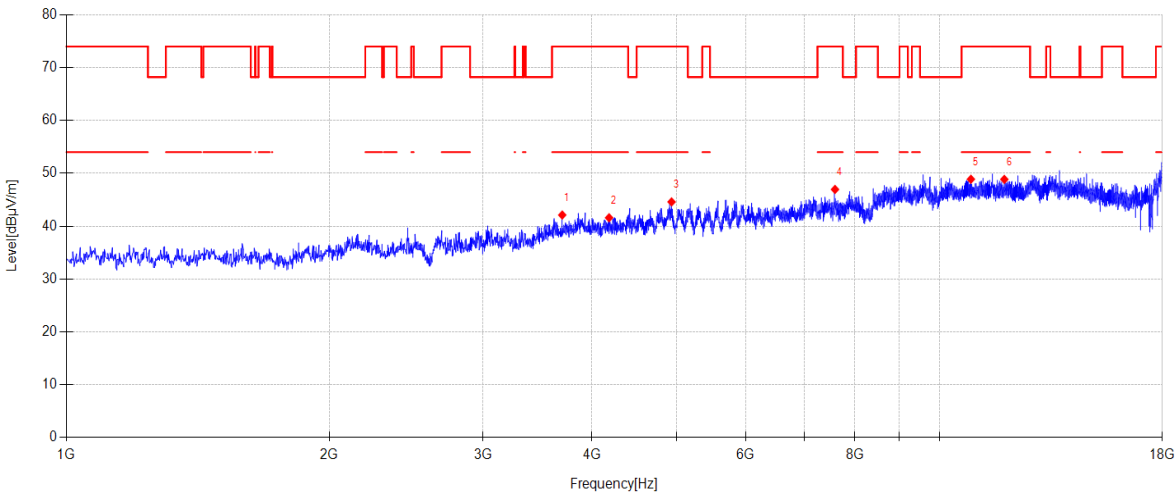
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Memo:

Sample Number:S24101411 Power Setting:10

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	3697.900	46.99	30.39	4.34	-39.61	42.11	74.00	31.89	PK	Vertical
2	4184.100	45.42	31.20	4.64	-39.67	41.59	74.00	32.41	PK	Vertical
3	4933.800	45.99	33.07	5.14	-39.61	44.59	74.00	29.41	PK	Vertical
4	7592.600	44.61	36.49	6.32	-40.47	46.95	74.00	27.05	PK	Vertical
5	10865.100	41.29	39.33	7.34	-39.08	48.88	74.00	25.12	PK	Vertical
6	11866.400	41.92	38.90	7.91	-39.87	48.86	74.00	25.14	PK	Vertical

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-10-30

Tested By:

Guoyuan Lin

EUT:

In-vehicle Multimedia Host

Model Number:

MTCD03

Test Mode:

11AC20 5720 MHz TX Mode

Power Supply:

DC 12V

Condition:

Temp:21.9°C;Humi:51.0%

Test Site:

DDT 3# Chamber

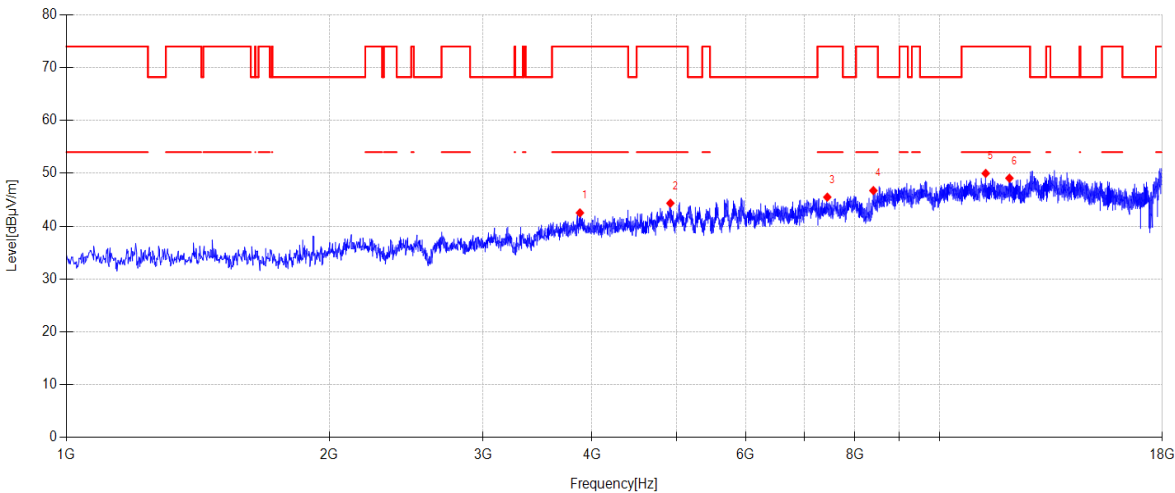
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Memo:

Sample Number:S24101411 Power Setting:10

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	3874.700	46.68	31.05	4.44	-39.65	42.52	74.00	31.48	PK	Horizontal
2	4918.500	45.78	33.04	5.13	-39.61	44.34	74.00	29.66	PK	Horizontal
3	7439.600	43.25	36.62	6.22	-40.60	45.49	74.00	28.51	PK	Horizontal
4	8400.100	42.05	37.50	6.76	-39.58	46.73	74.00	27.27	PK	Horizontal
5	11296.900	42.53	39.20	7.56	-39.30	49.99	74.00	24.01	PK	Horizontal
6	12026.200	41.83	39.23	8.00	-39.99	49.07	74.00	24.93	PK	Horizontal

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-10-30

Tested By:

Guoyuan Lin

EUT:

In-vehicle Multimedia Host

Model Number:

MTCD03

Test Mode:

11AC20 5720 MHz TX Mode

Power Supply:

DC 12V

Condition:

Temp:21.9°C;Humi:51.0%

Test Site:

DDT 3# Chamber

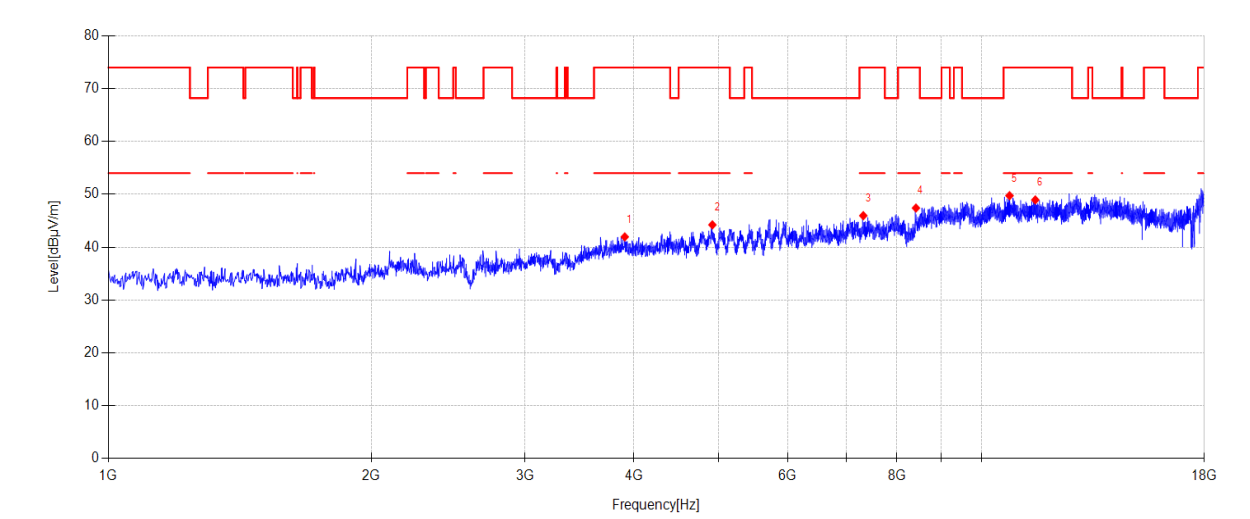
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Memo:

Sample Number:S24101411 Power Setting:10

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	3903.600	45.96	31.19	4.46	-39.66	41.95	74.00	32.05	PK	Vertical
2	4918.500	45.66	33.04	5.13	-39.61	44.22	74.00	29.78	PK	Vertical
3	7322.300	43.67	36.86	6.14	-40.71	45.96	74.00	28.04	PK	Vertical
4	8413.700	42.70	37.50	6.77	-39.56	47.41	74.00	26.59	PK	Vertical
5	10768.200	42.17	39.40	7.31	-39.14	49.74	74.00	24.26	PK	Vertical
6	11524.700	41.61	39.15	7.70	-39.52	48.94	74.00	25.06	PK	Vertical

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-10-30

Tested By:

Guoyuan Lin

EUT:

In-vehicle Multimedia Host

Model Number:

MTCD03

Test Mode:

11AC20 5745 MHz TX Mode

Power Supply:

DC 12V

Condition:

Temp:21.9°C;Humi:51.0%

Test Site:

DDT 3# Chamber

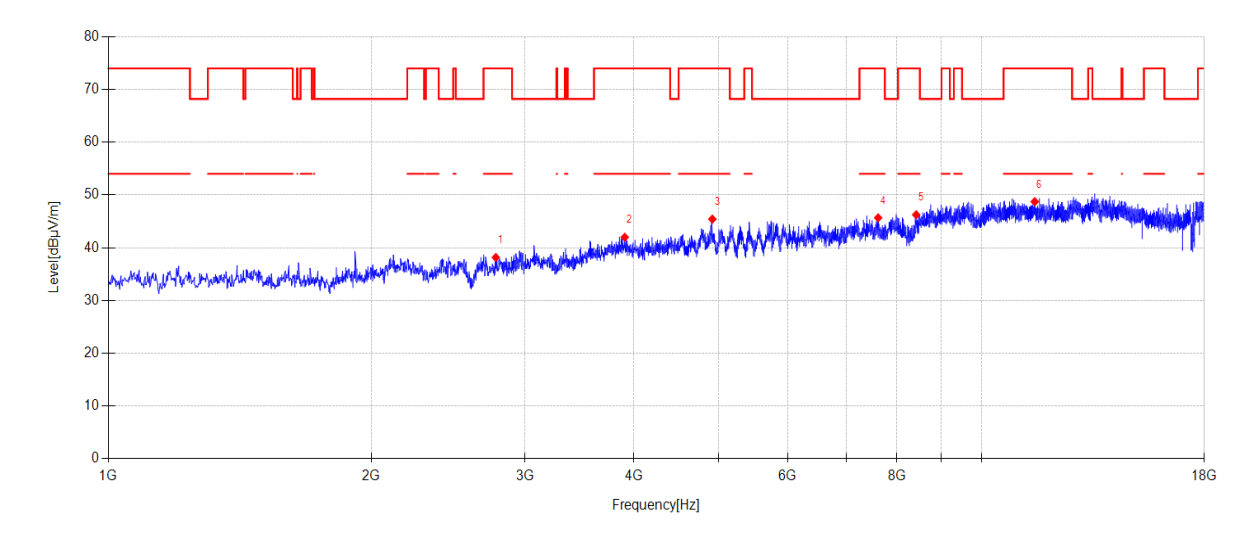
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Memo:

Sample Number:S24101411 Power Setting:10

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2778.200	46.04	27.49	3.79	-39.16	38.16	74.00	35.84	PK	Horizontal
2	3903.600	46.00	31.19	4.46	-39.66	41.99	74.00	32.01	PK	Horizontal
3	4918.500	46.86	33.04	5.13	-39.61	45.42	74.00	28.58	PK	Horizontal
4	7614.700	43.25	36.53	6.34	-40.45	45.67	74.00	28.33	PK	Horizontal
5	8418.800	41.53	37.50	6.77	-39.56	46.24	74.00	27.76	PK	Horizontal
6	11507.700	41.37	39.18	7.69	-39.51	48.73	74.00	25.27	PK	Horizontal

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-10-30

Tested By:

Guoyuan Lin

EUT:

In-vehicle Multimedia Host

Model Number:

MTCD03

Test Mode:

11AC20 5745 MHz TX Mode

Power Supply:

DC 12V

Condition:

Temp:21.9°C;Humi:51.0%

Test Site:

DDT 3# Chamber

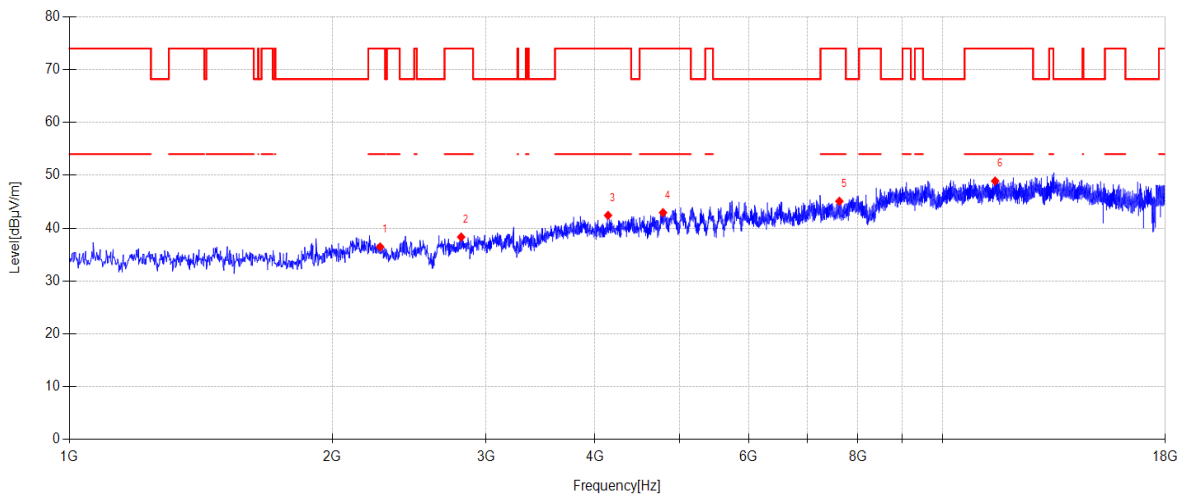
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Memo:

Sample Number:S24101411 Power Setting:10

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2269.900	44.38	27.10	3.50	-38.52	36.46	74.00	37.54	PK	Vertical
2	2810.500	46.25	27.48	3.80	-39.20	38.33	74.00	35.67	PK	Vertical
3	4139.900	46.30	31.18	4.61	-39.67	42.42	74.00	31.58	PK	Vertical
4	4785.900	45.08	32.44	5.04	-39.62	42.94	74.00	31.06	PK	Vertical
5	7619.800	42.65	36.54	6.34	-40.44	45.09	74.00	28.91	PK	Vertical
6	11490.700	41.52	39.21	7.68	-39.49	48.92	74.00	25.08	PK	Vertical

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-10-30

Tested By:

Guoyuan Lin

EUT:

In-vehicle Multimedia Host

Model Number:

MTCD03

Test Mode:

11AC20 5785 MHz TX Mode

Power Supply:

DC 12V

Condition:

Temp:21.9°C;Humi:51.0%

Test Site:

DDT 3# Chamber

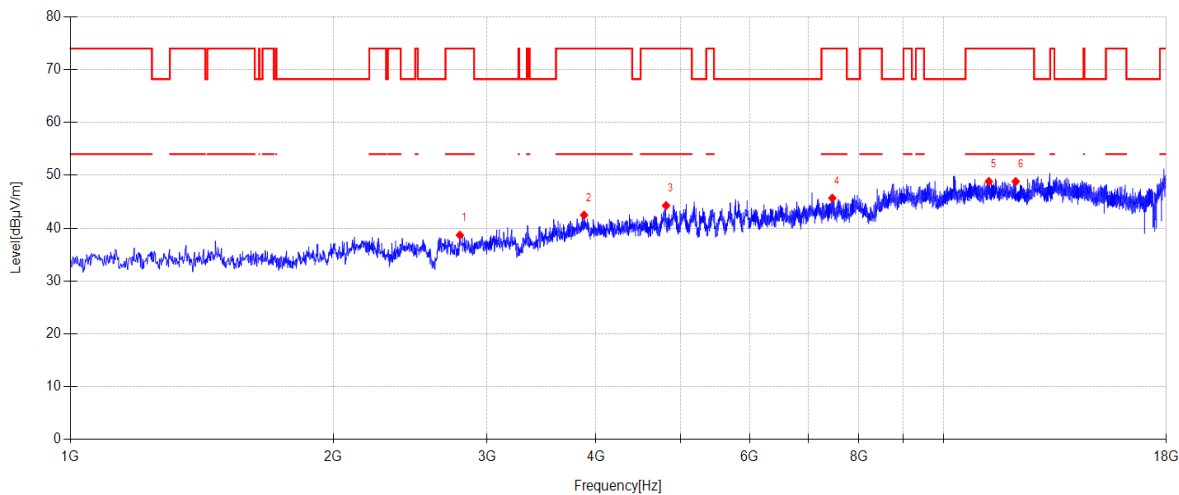
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Memo:

Sample Number:S24101411 Power Setting:10

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2793.500	46.64	27.43	3.79	-39.18	38.68	74.00	35.32	PK	Horizontal
2	3876.400	46.62	31.06	4.44	-39.65	42.47	74.00	31.53	PK	Horizontal
3	4811.400	46.03	32.80	5.06	-39.62	44.27	74.00	29.73	PK	Horizontal
4	7460.000	43.46	36.58	6.23	-40.59	45.68	74.00	28.32	PK	Horizontal
5	11271.400	41.36	39.20	7.55	-39.27	48.84	74.00	25.16	PK	Horizontal
6	12099.300	41.47	39.30	8.03	-39.98	48.82	74.00	25.18	PK	Horizontal

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-10-30

Tested By:

Guoyuan Lin

EUT:

In-vehicle Multimedia Host

Model Number:

MTCD03

Test Mode:

11AC20 5785 MHz TX Mode

Power Supply:

DC 12V

Condition:

Temp:21.9°C;Humi:51.0%

Test Site:

DDT 3# Chamber

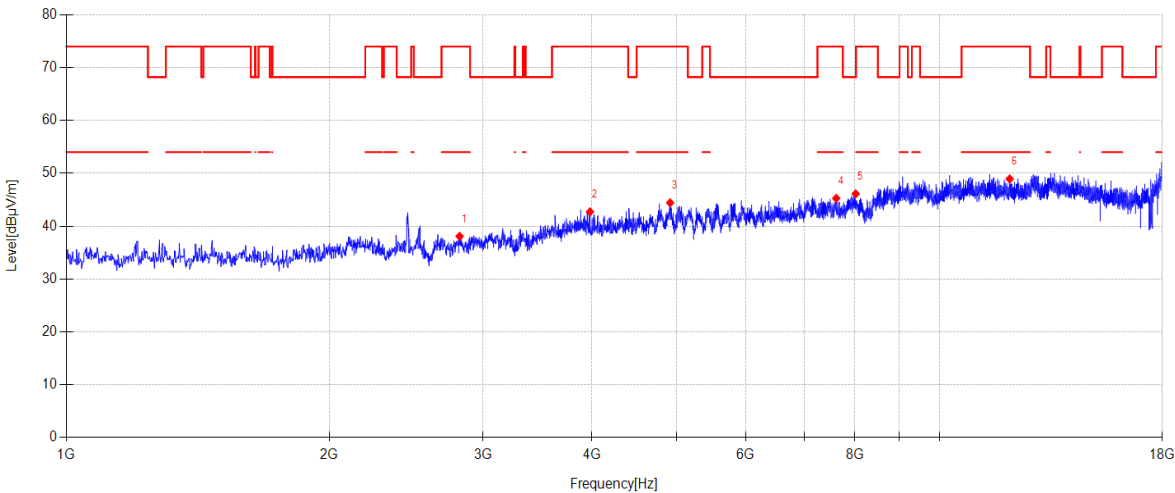
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Memo:

Sample Number:S24101411 Power Setting:10

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2820.700	45.91	27.57	3.81	-39.21	38.08	74.00	35.92	PK	Vertical
2	3978.400	46.89	30.99	4.51	-39.67	42.72	74.00	31.28	PK	Vertical
3	4915.100	45.88	33.03	5.12	-39.61	44.42	74.00	29.58	PK	Vertical
4	7616.400	42.85	36.53	6.34	-40.45	45.27	74.00	28.73	PK	Vertical
5	8017.600	42.49	37.10	6.61	-40.08	46.12	68.20	22.08	PK	Vertical
6	12034.700	41.70	39.23	8.00	-39.99	48.94	74.00	25.06	PK	Vertical

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-10-30

Tested By:

Guoyuan Lin

EUT:

In-vehicle Multimedia Host

Model Number:

MTCD03

Test Mode:

11AC20 5825 MHz TX Mode

Power Supply:

DC 12V

Condition:

Temp:21.9°C;Humi:51.0%

Test Site:

DDT 3# Chamber

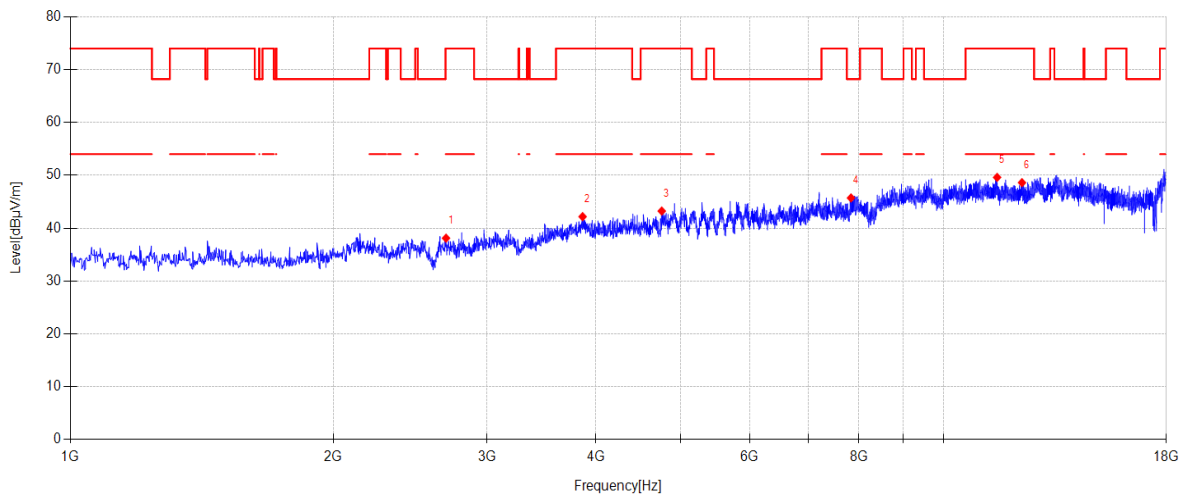
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Memo:

Sample Number:S24101411 Power Setting:10

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	2693.200	45.91	27.51	3.74	-39.05	38.11	74.00	35.89	PK	Horizontal
2	3861.100	46.42	30.97	4.44	-39.65	42.18	74.00	31.82	PK	Horizontal
3	4757.000	45.50	32.33	5.02	-39.62	43.23	74.00	30.77	PK	Horizontal
4	7835.700	42.61	36.87	6.49	-40.25	45.72	68.20	22.48	PK	Horizontal
5	11519.600	42.27	39.16	7.70	-39.52	49.61	74.00	24.39	PK	Horizontal
6	12301.600	41.14	39.30	8.11	-39.94	48.61	74.00	25.39	PK	Horizontal

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-10-30

Tested By:

Guoyuan Lin

EUT:

In-vehicle Multimedia Host

Model Number:

MTCD03

Test Mode:

11AC20 5825 MHz TX Mode

Power Supply:

DC 12V

Condition:

Temp:21.9°C;Humi:51.0%

Test Site:

DDT 3# Chamber

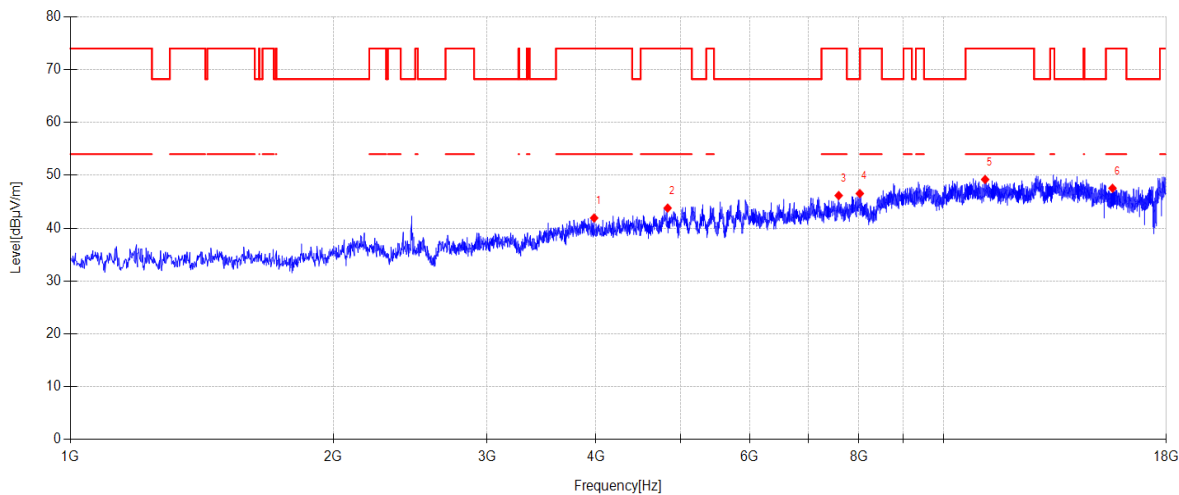
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Memo:

Sample Number:S24101411 Power Setting:10

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	3980.100	46.12	30.98	4.51	-39.68	41.93	74.00	32.07	PK	Vertical
2	4831.800	45.01	33.33	5.07	-39.61	43.80	74.00	30.20	PK	Vertical
3	7585.800	43.85	36.47	6.32	-40.47	46.17	74.00	27.83	PK	Vertical
4	8021.000	42.91	37.10	6.61	-40.07	46.55	68.20	21.65	PK	Vertical
5	11162.600	41.65	39.24	7.48	-39.16	49.21	74.00	24.79	PK	Vertical
6	15618.300	39.58	38.58	8.79	-39.40	47.55	74.00	26.45	PK	Vertical

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

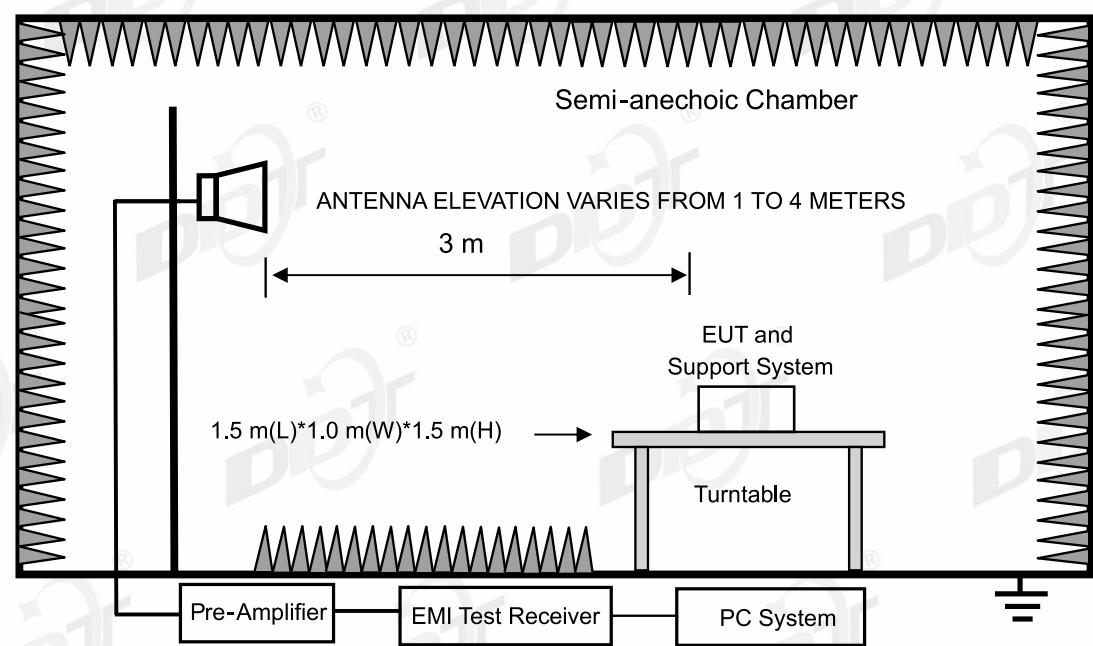
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

14. Band Edge Compliance

14.1. Test equipment

Equipment	Manufacturer	Model No.	Serial No.	Cal Due To	Cal. Interval
RF cable	Zhongke Junchuang	JCT26S-NJ-NJ-1.5M	DDT-ZC02762	2025/03/31	1 Year
High pass filter	Micro-Tronics	HPM50108	DDT-ZC00560	2025/04/22	1 Year
Micro-Tronics filters	REBES	BRM50702	DDT-ZC03242	/	/
High pass filter	Micro-Tronics	HPM50102	DDT-ZC00561	2025/04/22	1 Year
Micro-Tronics filters	REBES	BRM50716	DDT-ZC03240	/	/
Active Loop Antenna	Schwarzbeck	FMZB1519	DDT-ZC00524	2025/09/11	2 Year
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	DDT-ZC00506	2025/04/26	1 Year
Pre-amplifier	COM-POWER	PAM-118A	DDT-ZC01293	2024/07/14	1 Year
Pre-amplifier	COM-POWER	PAM-118A	DDT-ZC01293	2025/07/08	1 Year
High Pass filter	Xi'an Xingbo	XBLBQ-GTA67	DDT-ZC02179	2025/04/22	1 Year
Hochgewinn-Hornantenne	SCHWARZBECK	BBHA 9120 D	DDT-ZC02129	2025/09/18	2 Year
RF cable	Yuhu Technology	JCTB810-NJ-NJ-9M	DDT-ZC02538	2025/03/31	1 Year
EMI TEST RECEIVER	R&S	ESU26	DDT-ZC01909	2025/03/31	1 Year
Trilog Broadband Antenna	Schwarzbeck	VULB 9163	DDT-ZC02050	2025/07/11	2 Year
PSA Series Spectrum Analyzer	Agilent	E4447A	DDT-ZC00517	2025/03/31	1 Year
RF Cable	N/A	W13.02 AP1-X2	DDT-ZC04023	2025/03/31	1 Year
Pre-amplifier	COM-POWER	PAM-840A	DDT-ZC01693	2025/03/31	1 Year
RF cable	Yuhu Technology	ZT26S-SMAJ-SMAJ-1M	DDT-ZC02037	2025/03/31	1 Year
RF Cable	N/A	W24.02 HL-562	DDT-ZC04022	2025/03/31	1 Year

14.2. Block diagram of test setup



14.3. Limits

- (1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (4) For transmitters operating solely in the 5.725-5.850 GHz band:
All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

14.4. Assistant equipment used for test

Assistant equipment	Manufacturer	Model number	Description	other
/	/	/	/	/

14.5. Test procedure

Same with Emissions in Restricted Frequency Bands except change investigated frequency range from 5.15-5.25 GHz, 5250-5350 GHz, 5470-5725 GHz, 5.725-5.85 GHz.

Remark: All restriction band have been tested, and only the worst case is shown in report. Both Horizontal and Vertical polarity have been tested, according to the results of the radiated Emission test, it can be judged that the Horizontal direction is the worst case and recorded in this report.

14.6. Test result

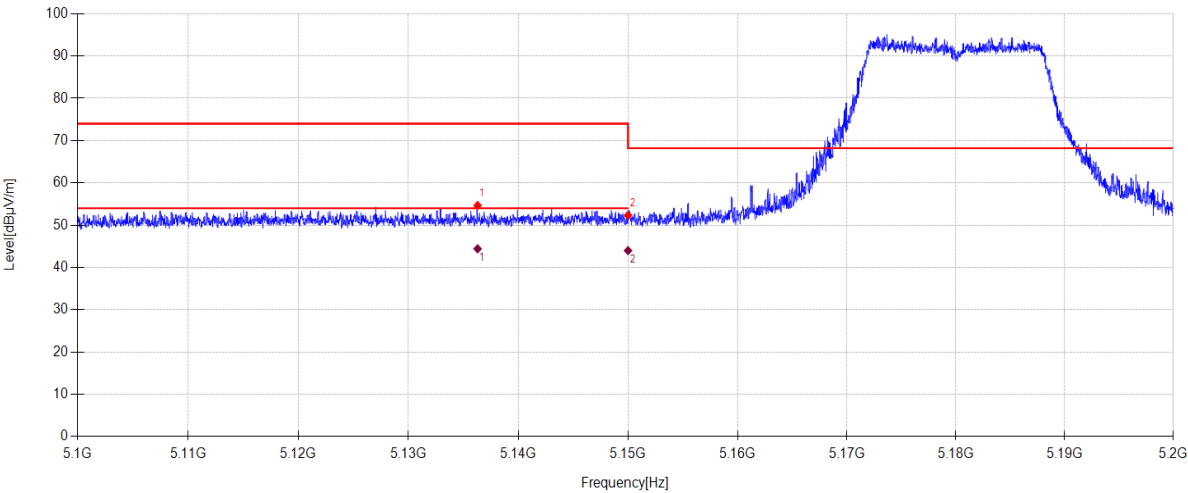
PASS. (See below detailed test result)

14.7. Test data

TR-4-E-009 Radiated Emission Test Result

Test Date:	2024-10-30	Tested By:	Guoyuan Lin
EUT:	In-vehicle Multimedia Host	Model Number:	MTCD03
Test Mode:	11A 5180 MHz TX Mode	Power Supply:	DC 12V
Condition:	Temp:21.9°C;Humi:51.0%	Test Site:	DDT 3# Chamber
File Path:	d:\ts\2024 report data\Q24101411-1E\FCC RE Above 1G 5G\1		
Memo:	Sample Number:S24101411 Power Setting:10		

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5136.290	45.59	33.40	5.27	-29.60	54.66	74.00	19.34	PK	Horizontal
2	5150.000	43.25	33.40	5.28	-29.60	52.33	68.20	15.87	PK	Horizontal

Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5136.290	35.34	33.40	5.27	44.41	54	9.59	AV	Horizontal
2	5150.000	34.90	33.40	5.28	43.98	54	10.02	AV	Horizontal

- Note:
1. Level = Reading + Cable loss + Antenna Factor + AMP
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-10-30

Tested By:

Guoyuan Lin

EUT:

In-vehicle Multimedia Host

Model Number:

MTCD03

Test Mode:

11N20 5180 MHz TX Mode

Power Supply:

DC 12V

Condition:

Temp:21.9°C;Humi:51.0%

Test Site:

DDT 3# Chamber

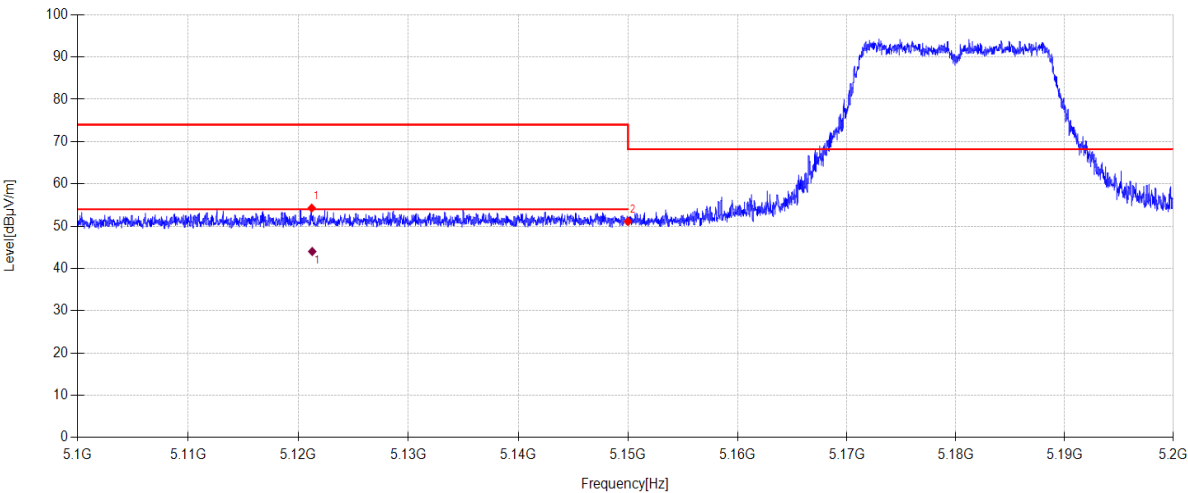
File Path:

d:\ts\2024 report data\Q24101411-1E\FCC RE Above 1G 5G\2

Memo:

Sample Number:S24101411 Power Setting:10

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	5121.220	45.22	33.40	5.26	-29.60	54.28	74.00	19.72	PK	Horizontal
2	5150.000	42.02	33.40	5.28	-29.60	51.10	68.20	17.10	PK	Horizontal

Data List									
NO.	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	5121.269	34.95	33.40	5.26	44.01	54	9.99	AV	Horizontal

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-10-30

Tested By:

Guoyuan Lin

EUT:

In-vehicle Multimedia Host

Model Number:

MTCD03

Test Mode:

11AC20 5180 MHz TX Mode

Power Supply:

DC 12V

Condition:

Temp:21.9°C;Humi:51.0%

Test Site:

DDT 3# Chamber

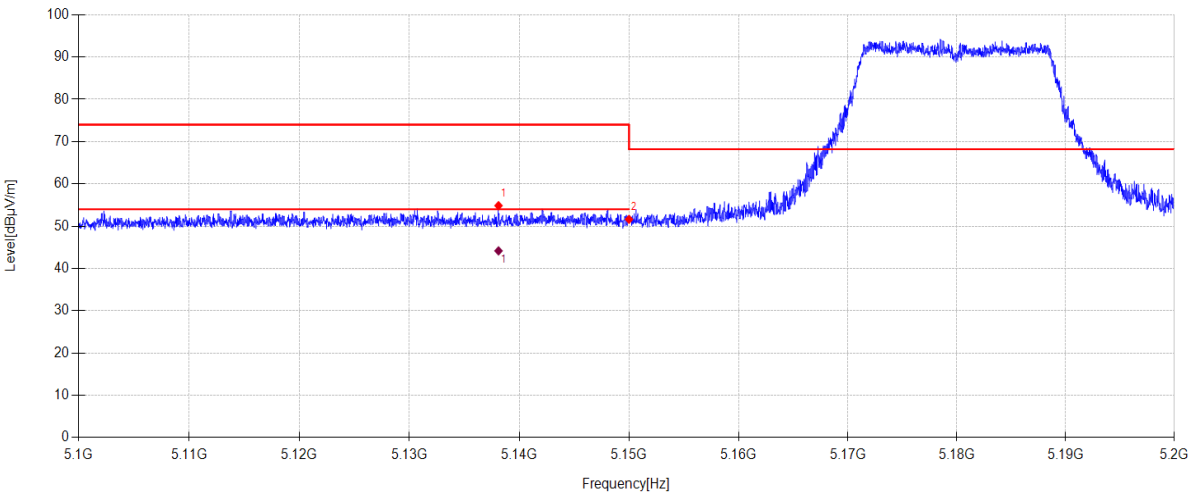
File Path:

d:\ts\2024 report data\Q24101411-1E\FCC RE Above 1G 5G\3

Memo:

Sample Number:S24101411 Power Setting:10

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5138.110	45.78	33.40	5.27	-29.60	54.85	74.00	19.15	PK	Horizontal
2	5150.000	42.53	33.40	5.28	-29.60	51.61	68.20	16.59	PK	Horizontal

Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5138.110	35.09	33.40	5.27	44.16	54	9.84	AV	Horizontal

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-10-30

Tested By:

Guoyuan Lin

EUT:

In-vehicle Multimedia Host

Model Number:

MTCD03

Test Mode:

11A 5320 MHz TX Mode

Power Supply:

DC 12V

Condition:

Temp:21.9°C;Humi:51.0%

Test Site:

DDT 3# Chamber

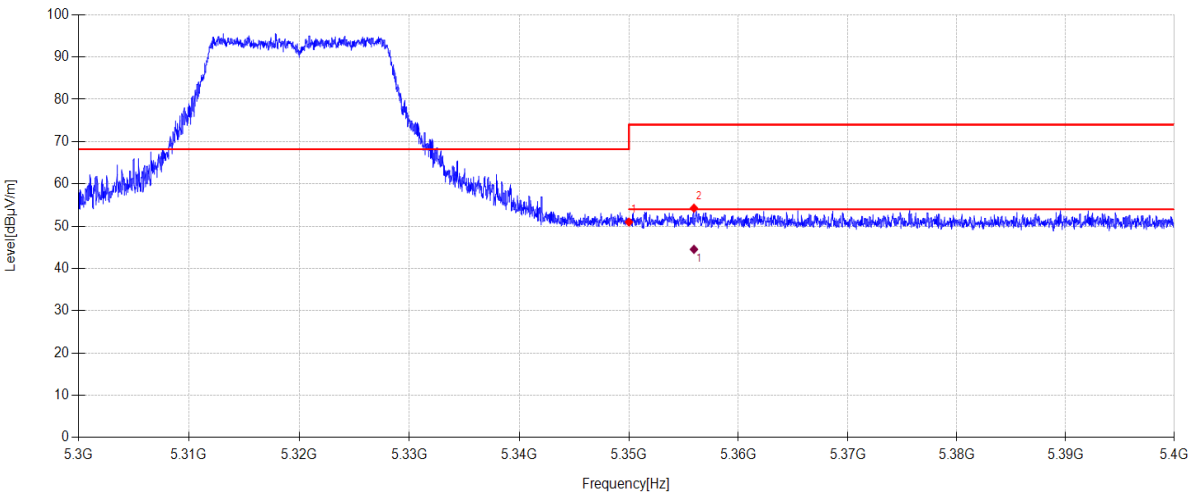
File Path:

d:\ts\2024 report data\Q24101411-1E\FCC RE Above 1G 5G\4

Memo:

Sample Number:S24101411 Power Setting:10

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5350.000	42.07	33.10	5.41	-29.60	50.98	68.20	17.22	PK	Horizontal
2	5355.940	45.35	33.10	5.41	-29.60	54.26	74.00	19.74	PK	Horizontal

Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5355.940	35.61	33.10	5.41	44.52	54	9.48	AV	Horizontal

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-10-30

Tested By:

Guoyuan Lin

EUT:

In-vehicle Multimedia Host

Model Number:

MTCD03

Test Mode:

11N20 5320 MHz TX Mode

Power Supply:

DC 12V

Condition:

Temp:21.9°C;Humi:51.0%

Test Site:

DDT 3# Chamber

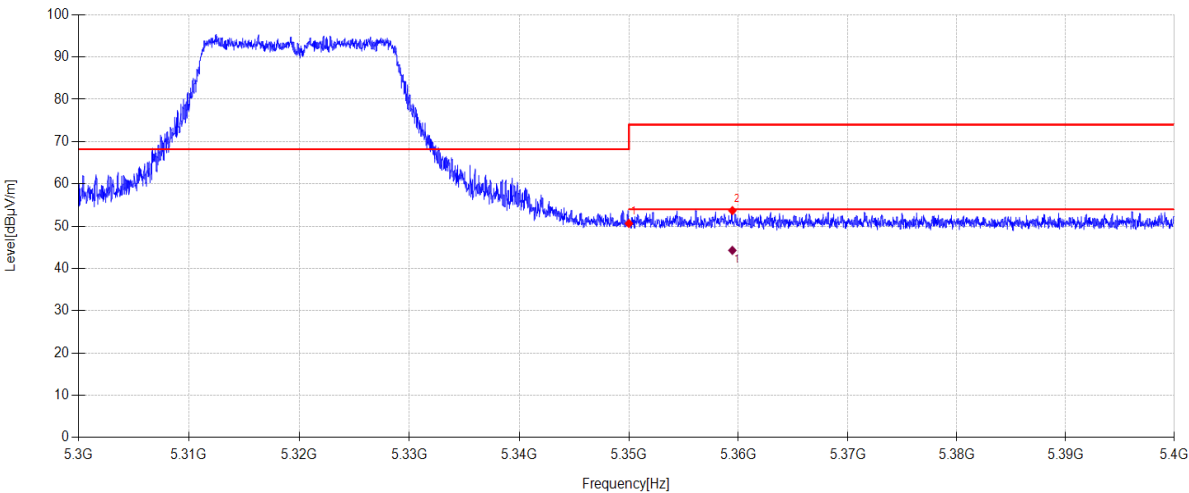
File Path:

d:\ts\2024 report data\Q24101411-1E\FCC RE Above 1G 5G\5

Memo:

Sample Number:S24101411 Power Setting:10

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5350.000	41.73	33.10	5.41	-29.60	50.64	68.20	17.56	PK	Horizontal
2	5359.450	44.75	33.10	5.42	-29.60	53.67	74.00	20.33	PK	Horizontal

Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5359.450	35.35	33.10	5.42	44.27	54	9.73	AV	Horizontal

- Note:
1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-10-30

Tested By:

Guoyuan Lin

EUT:

In-vehicle Multimedia Host

Model Number:

MTCD03

Test Mode:

11AC20 5320 MHz TX Mode

Power Supply:

DC 12V

Condition:

Temp:21.9°C;Humi:51.0%

Test Site:

DDT 3# Chamber

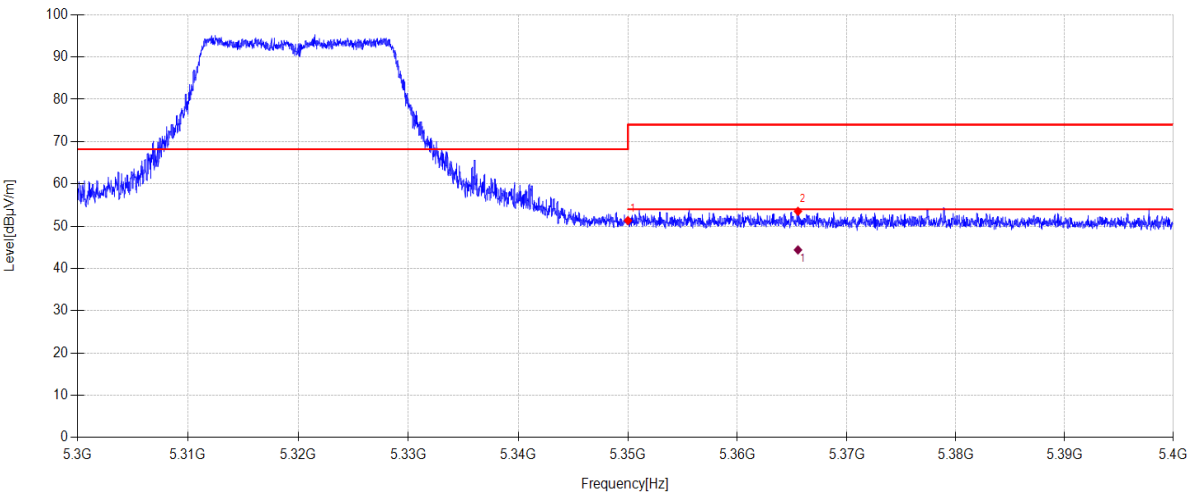
File Path:

d:\ts\2024 report data\Q24101411-1E\FCC RE Above 1G 5G\6

Memo:

Sample Number:S24101411 Power Setting:10

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5350.000	42.41	33.10	5.41	-29.60	51.32	68.20	16.88	PK	Horizontal
2	5365.540	44.59	33.10	5.42	-29.60	53.51	74.00	20.49	PK	Horizontal

Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5365.540	35.46	33.10	5.42	44.38	54	9.62	AV	Horizontal

- Note:
1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-10-30

Tested By:

Guoyuan Lin

EUT:

In-vehicle Multimedia Host

Model Number:

MTCD03

Test Mode:

11AC20 5500 MHz TX Mode

Power Supply:

DC 12V

Condition:

Temp:21.9°C;Humi:51.0%

Test Site:

DDT 3# Chamber

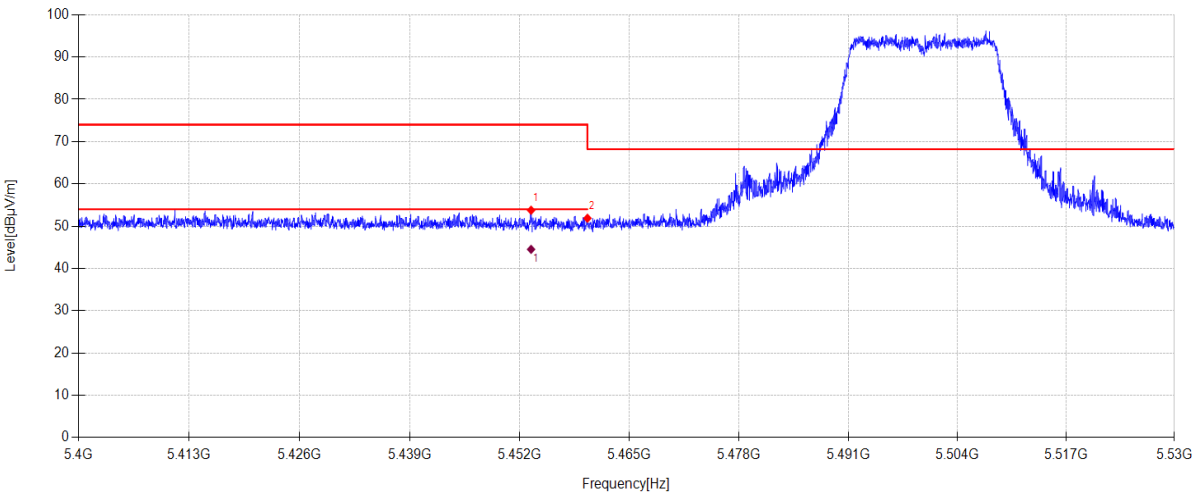
File Path:

d:\ts\2024 report data\Q24101411-1E\FCC RE Above 1G 5G\7

Memo:

Sample Number:S24101411 Power Setting:10

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5453.326	44.89	33.00	5.48	-29.60	53.77	74.00	20.23	PK	Horizontal
2	5460.000	42.99	33.00	5.48	-29.60	51.87	68.20	16.33	PK	Horizontal

Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	
1	5453.326	35.64	33.00	5.48	44.52	54	9.48	AV	Horizontal	

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-10-30

Tested By:

Guoyuan Lin

EUT:

In-vehicle Multimedia Host

Model Number:

MTCD03

Test Mode:

11N20 5500 MHz TX Mode

Power Supply:

DC 12V

Condition:

Temp:21.9°C;Humi:51.0%

Test Site:

DDT 3# Chamber

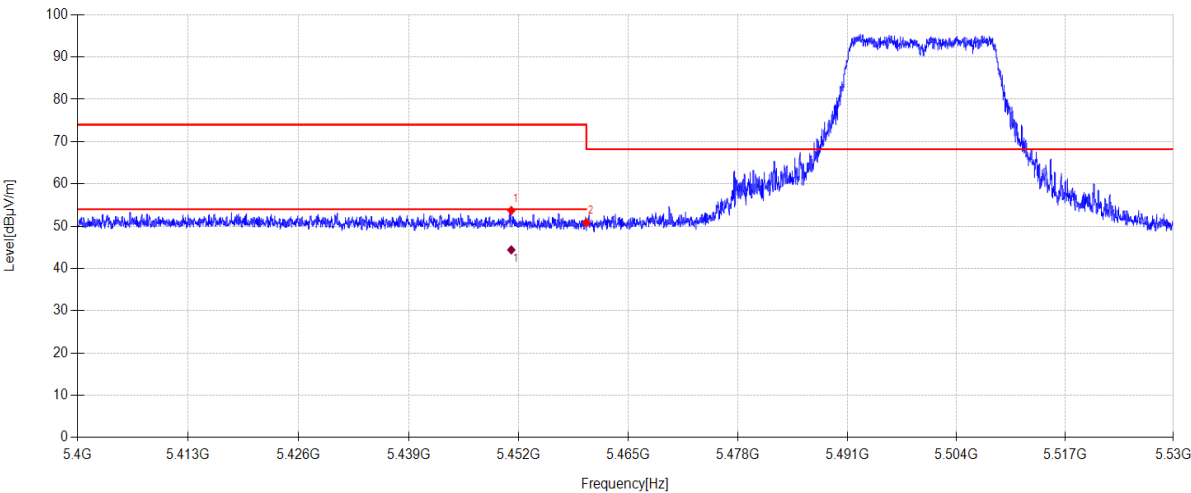
File Path:

d:\ts\2024 report data\Q24101411-1E\FCC RE Above 1G 5G\8

Memo:

Sample Number:S24101411 Power Setting:10

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5451.103	44.82	33.00	5.48	-29.60	53.70	74.00	20.30	PK	Horizontal
2	5460.000	41.92	33.00	5.48	-29.60	50.80	68.20	17.40	PK	Horizontal

Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5451.103	35.51	33.00	5.48	44.39	54	9.61	AV	Horizontal

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-10-30

Tested By:

Guoyuan Lin

EUT:

In-vehicle Multimedia Host

Model Number:

MTCD03

Test Mode:

11A 5500 MHz TX Mode

Power Supply:

DC 12V

Condition:

Temp:21.9°C;Humi:51.0%

Test Site:

DDT 3# Chamber

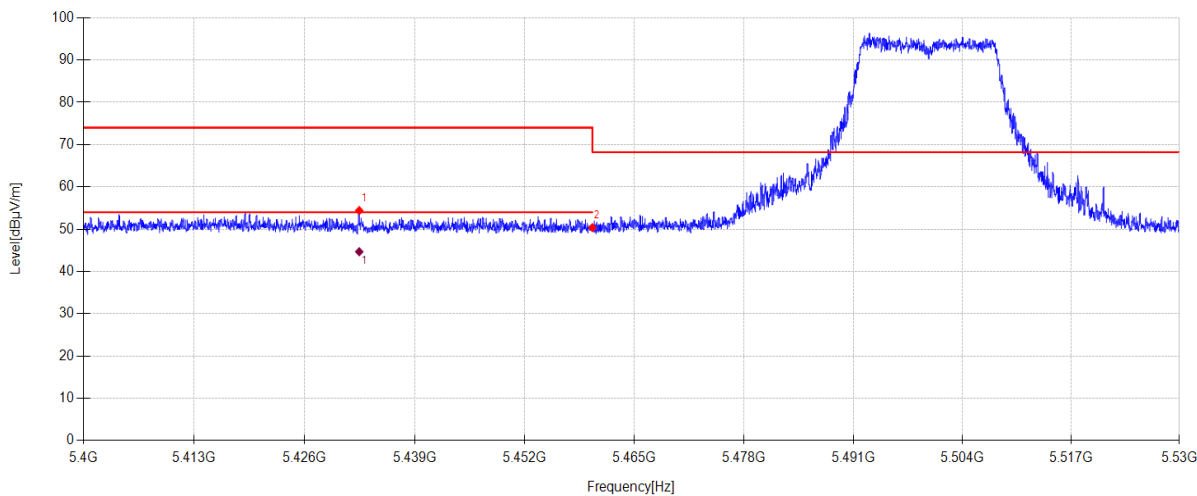
File Path:

d:\ts\2024 report data\Q24101411-1E\FCC RE Above 1G 5G\9

Memo:

Sample Number:S24101411 Power Setting:10

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5432.435	45.49	33.04	5.47	-29.60	54.40	74.00	19.60	PK	Horizontal
2	5460.000	41.47	33.00	5.48	-29.60	50.35	68.20	17.85	PK	Horizontal

Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5432.435	35.76	33.04	5.47	44.67	54	9.33	AV	Horizontal

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-10-30

Tested By:

Guoyuan Lin

EUT:

In-vehicle Multimedia Host

Model Number:

MTCD03

Test Mode:

11A 5700 MHz TX Mode

Power Supply:

DC 12V

Condition:

Temp:21.9°C;Humi:51.0%

Test Site:

DDT 3# Chamber

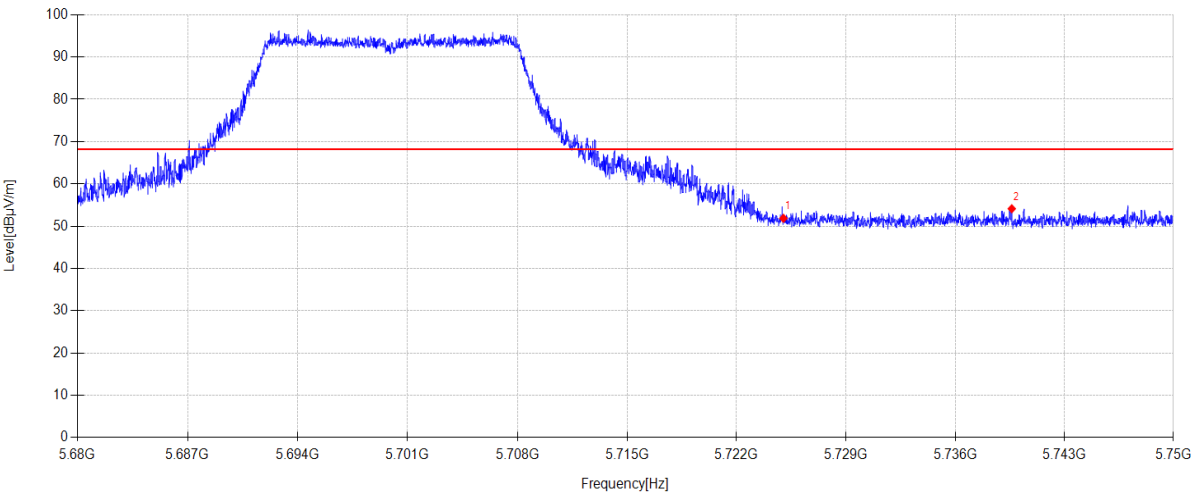
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d:\ts\2024 report data\Q24101411-1E\FCC RE Above 1G 5G\10

Memo:

Sample Number:S24101411 Power Setting:10

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5725.000	42.04	33.75	5.66	-29.60	51.85	68.20	16.35	PK	Horizontal
2	5739.626	44.21	33.84	5.67	-29.60	54.12	68.20	14.08	PK	Horizontal

- Note:
1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-10-30

Tested By:

Guoyuan Lin

EUT:

In-vehicle Multimedia Host

Model Number:

MTCD03

Test Mode:

11N20 5700 MHz TX Mode

Power Supply:

DC 12V

Condition:

Temp:21.9°C;Humi:51.0%

Test Site:

DDT 3# Chamber

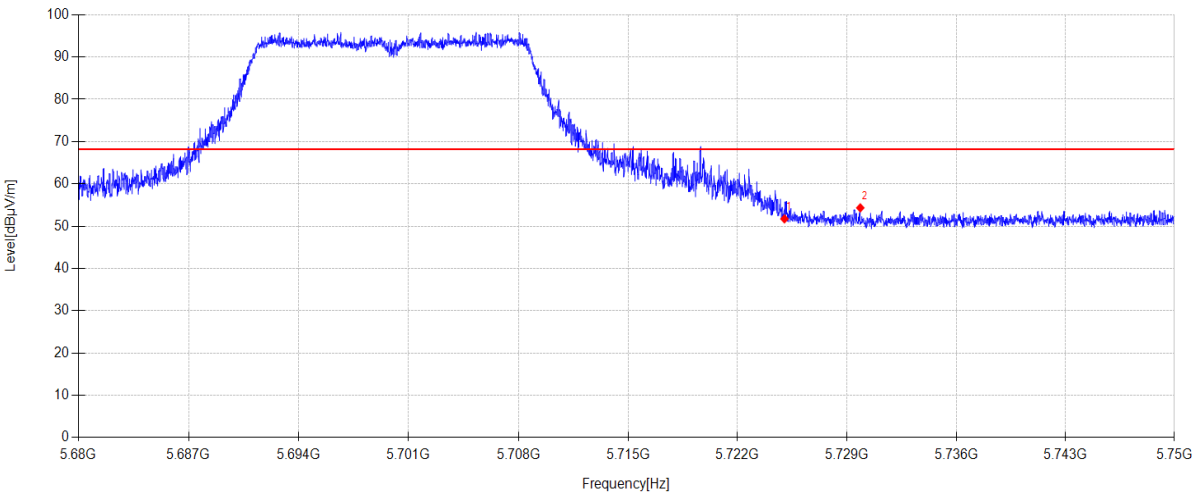
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d:\ts\2024 report data\Q24101411-1E\FCC RE Above 1G 5G\11

Memo:

Sample Number:S24101411 Power Setting:10

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5725.000	41.91	33.75	5.66	-29.60	51.72	68.20	16.48	PK	Horizontal
2	5729.854	44.49	33.78	5.66	-29.60	54.33	68.20	13.87	PK	Horizontal

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-10-30

Tested By:

Guoyuan Lin

EUT:

In-vehicle Multimedia Host

Model Number:

MTCD03

Test Mode:

11AC20 5700 MHz TX Mode

Power Supply:

DC 12V

Condition:

Temp:21.9°C;Humi:51.0%

Test Site:

DDT 3# Chamber

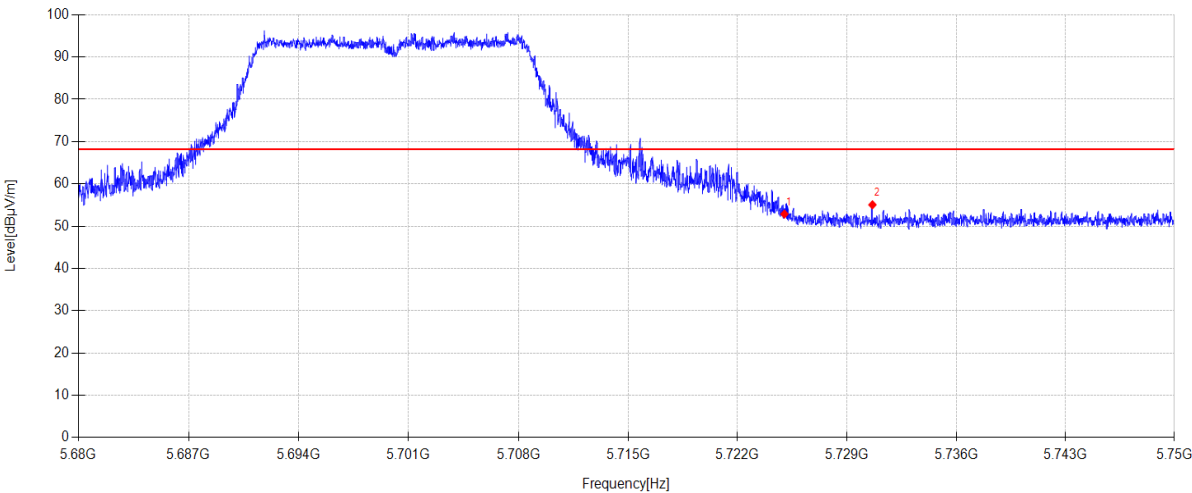
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d:\ts\2024 report data\Q24101411-1E\FCC RE Above 1G 5G\12

Memo:

Sample Number:S24101411 Power Setting:10

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5725.000	43.06	33.75	5.66	-29.60	52.87	68.20	15.33	PK	Horizontal
2	5730.631	45.21	33.78	5.66	-29.60	55.05	68.20	13.15	PK	Horizontal

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-10-30

Tested By:

Guoyuan Lin

EUT:

In-vehicle Multimedia Host

Model Number:

MTCD03

Test Mode:

11AC40 5670 MHz TX Mode

Power Supply:

DC 12V

Condition:

Temp:21.9°C;Humi:51.0%

Test Site:

DDT 3# Chamber

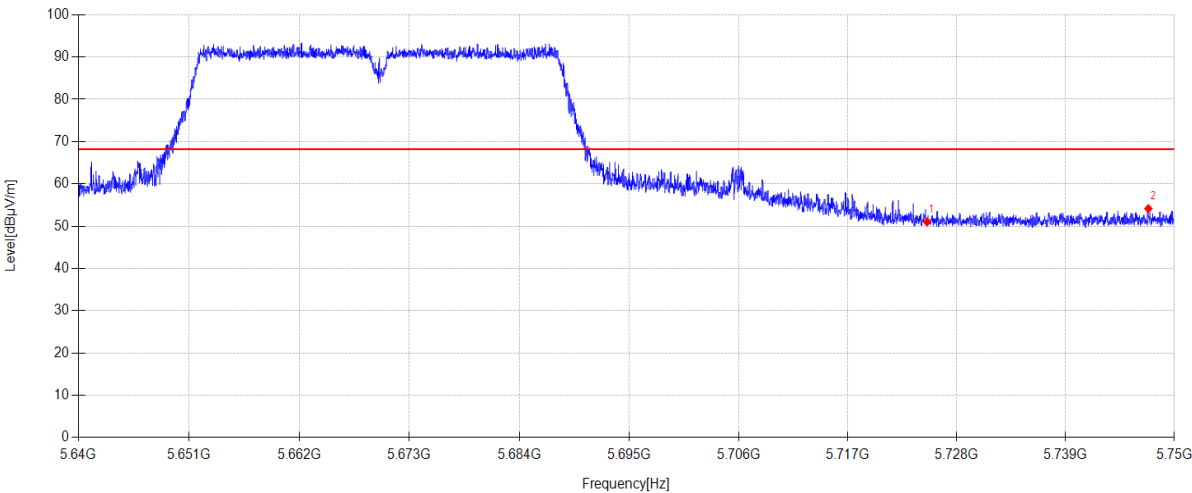
File Path:

d:\ts\2024 report data\Q24101411-1E\FCC RE Above 1G 5G\13

Memo:

Sample Number:S24101411 Power Setting:10

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5725.000	41.19	33.75	5.66	-29.60	51.00	68.20	17.20	PK	Horizontal
2	5747.371	44.20	33.88	5.67	-29.60	54.15	68.20	14.05	PK	Horizontal

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-10-30

Tested By:

Guoyuan Lin

EUT:

In-vehicle Multimedia Host

Model Number:

MTCD03

Test Mode:

11N40 5670 MHz TX Mode

Power Supply:

DC 12V

Condition:

Temp:21.9°C;Humi:51.0%

Test Site:

DDT 3# Chamber

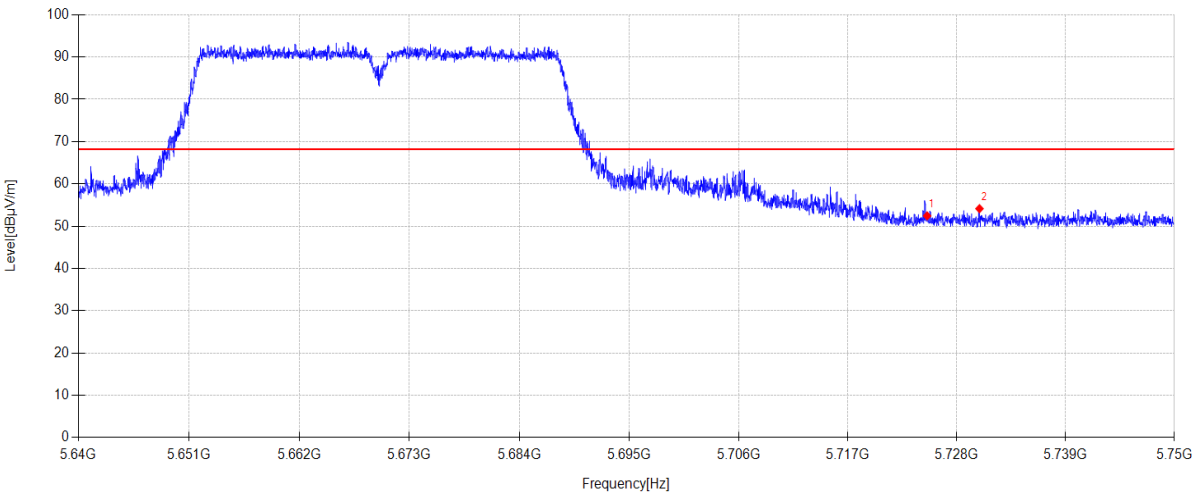
File Path:

d:\ts\2024 report data\Q24101411-1E\FCC RE Above 1G 5G\14

Memo:

Sample Number:S24101411 Power Setting:10

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5725.000	42.63	33.75	5.66	-29.60	52.44	68.20	15.76	PK	Horizontal
2	5730.288	44.29	33.78	5.66	-29.60	54.13	68.20	14.07	PK	Horizontal

- Note:
1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-10-30

Tested By:

Guoyuan Lin

EUT:

In-vehicle Multimedia Host

Model Number:

MTCD03

Test Mode:

11N40 5510 MHz TX Mode

Power Supply:

DC 12V

Condition:

Temp:21.9°C;Humi:51.0%

Test Site:

DDT 3# Chamber

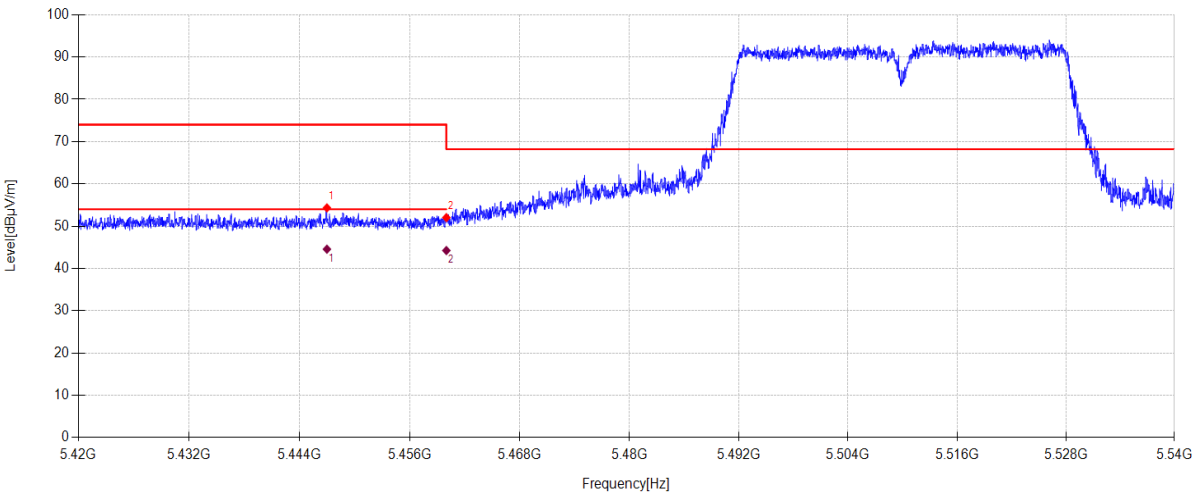
File Path:

d:\ts\2024 report data\Q24101411-1E\FCC RE Above 1G 5G\15

Memo:

Sample Number:S24101411 Power Setting:10

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5446.988	45.44	33.01	5.48	-29.60	54.33	74.00	19.67	PK	Horizontal
2	5460.000	43.14	33.00	5.48	-29.60	52.02	68.20	16.18	PK	Horizontal

Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5446.988	35.67	33.01	5.48	44.56	54	9.44	AV	Horizontal
2	5460.000	35.36	33.00	5.48	44.24	54	9.76	AV	Horizontal

- Note:
1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-10-30

Tested By:

Guoyuan Lin

EUT:

In-vehicle Multimedia Host

Model Number:

MTCD03

Test Mode:

11AC40 5510 MHz TX Mode

Power Supply:

DC 12V

Condition:

Temp:21.9°C;Humi:51.0%

Test Site:

DDT 3# Chamber

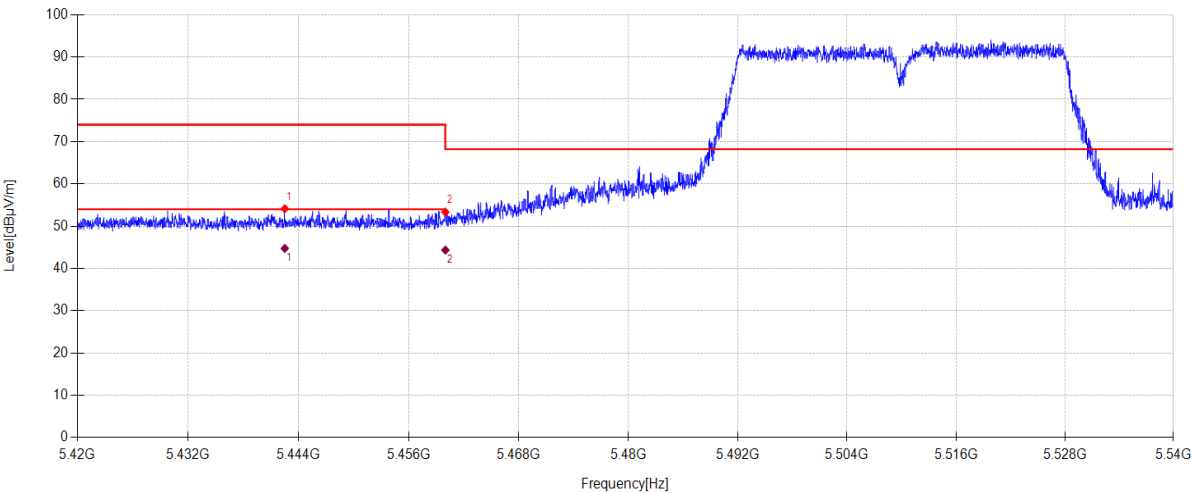
File Path:

d:\ts\2024 report data\Q24101411-1E\FCC RE Above 1G 5G\16

Memo:

Sample Number:S24101411 Power Setting:10

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5442.512	45.24	33.01	5.47	-29.60	54.12	74.00	19.88	PK	Horizontal
2	5460.000	44.44	33.00	5.48	-29.60	53.32	68.20	14.88	PK	Horizontal

Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5442.512	35.87	33.01	5.47	44.75	54	9.25	AV	Horizontal
2	5460.000	35.46	33.00	5.48	44.34	54	9.66	AV	Horizontal

- Note:
1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-10-30

Tested By:

Guoyuan Lin

EUT:

In-vehicle Multimedia Host

Model Number:

MTCD03

Test Mode:

11AC40 5310 MHz TX Mode

Power Supply:

DC 12V

Condition:

Temp:21.9°C;Humi:51.0%

Test Site:

DDT 3# Chamber

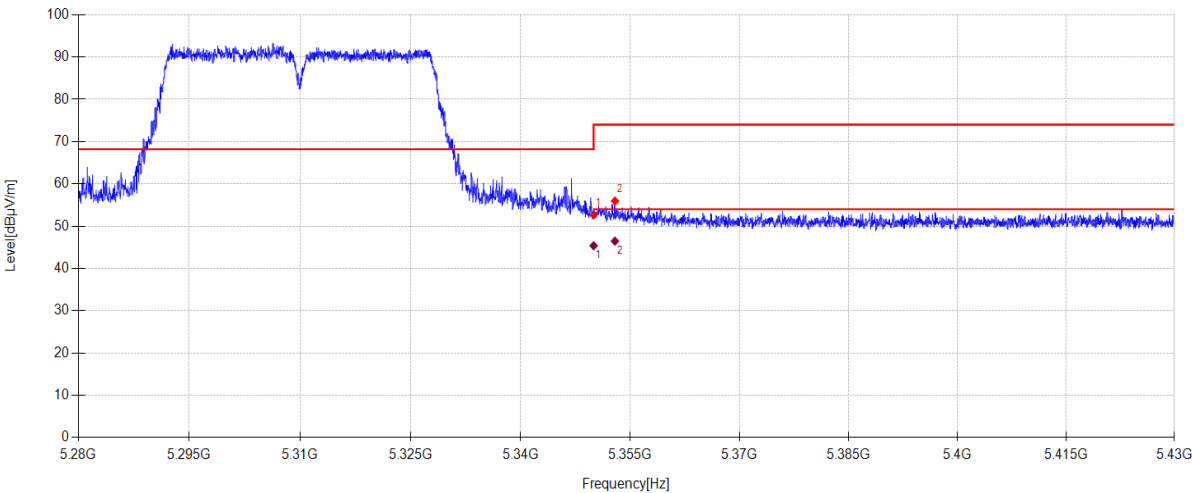
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Memo:

Sample Number:S24101411 Power Setting:10

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5350.000	43.74	33.10	5.41	-29.60	52.65	74.00	21.35	PK	Horizontal
2	5352.915	47.04	33.10	5.41	-29.60	55.95	74.00	18.05	PK	Horizontal

Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5350.000	36.46	33.10	5.41	45.37	54	8.63	AV	Horizontal
2	5352.915	37.54	33.10	5.41	46.45	54	7.55	AV	Horizontal

- Note:
1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-10-30

Tested By:

Guoyuan Lin

EUT:

In-vehicle Multimedia Host

Model Number:

MTCD03

Test Mode:

11N40 5310 MHz TX Mode

Power Supply:

DC 12V

Condition:

Temp:21.9°C;Humi:51.0%

Test Site:

DDT 3# Chamber

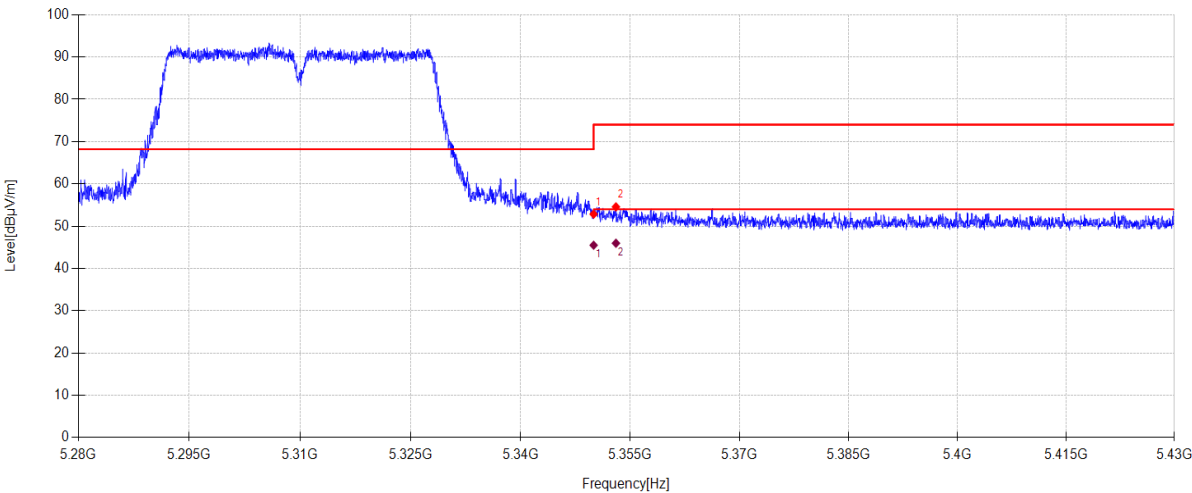
File Path:

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Memo:

Sample Number:S24101411 Power Setting:10

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5350.000	43.93	33.10	5.41	-29.60	52.84	74.00	21.16	PK	Horizontal
2	5353.050	45.66	33.10	5.41	-29.60	54.57	74.00	19.43	PK	Horizontal

Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5350.000	36.58	33.10	5.41	45.49	54	8.51	AV	Horizontal
2	5353.050	37.06	33.10	5.41	45.97	54	8.03	AV	Horizontal

- Note:
1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-10-30

Tested By:

Guoyuan Lin

EUT:

In-vehicle Multimedia Host

Model Number:

MTCD03

Test Mode:

11N40 5190 MHz TX Mode

Power Supply:

DC 12V

Condition:

Temp:21.9°C;Humi:51.0%

Test Site:

DDT 3# Chamber

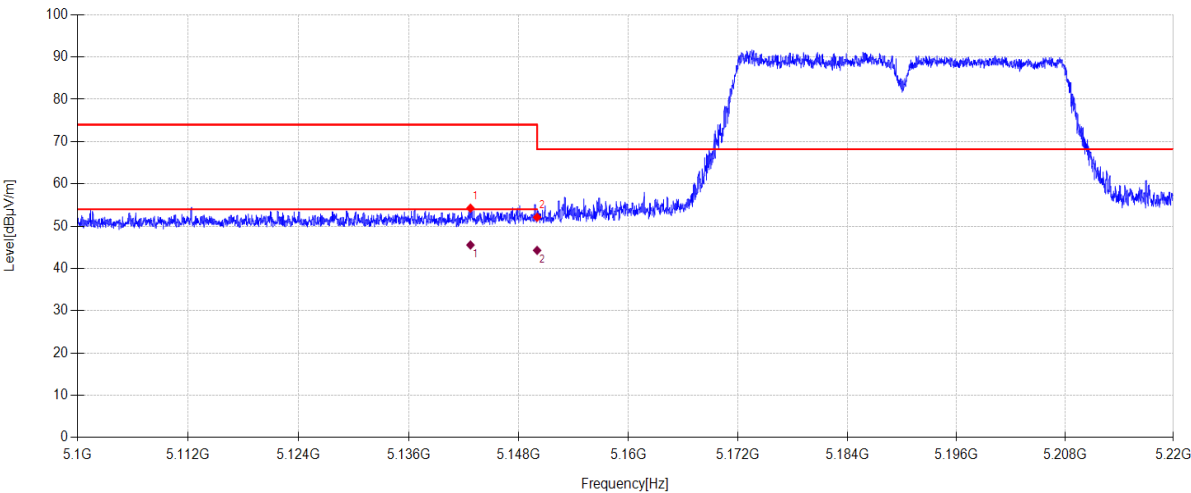
File Path:

d:\ts\2024 report data\Q24101411-1E\FCC RE Above 1G 5G\19

Memo:

Sample Number:S24101411 Power Setting:10

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5142.720	45.18	33.40	5.27	-29.60	54.25	74.00	19.75	PK	Horizontal
2	5150.000	43.02	33.40	5.28	-29.60	52.10	68.20	16.10	PK	Horizontal

Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5142.720	36.48	33.40	5.27	45.55	54	8.45	AV	Horizontal
2	5150.000	35.19	33.40	5.28	44.27	54	9.73	AV	Horizontal

- Note:
1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-10-30

Tested By:

Guoyuan Lin

EUT:

In-vehicle Multimedia Host

Model Number:

MTCD03

Test Mode:

11AC40 5190 MHz TX Mode

Power Supply:

DC 12V

Condition:

Temp:21.9°C;Humi:51.0%

Test Site:

DDT 3# Chamber

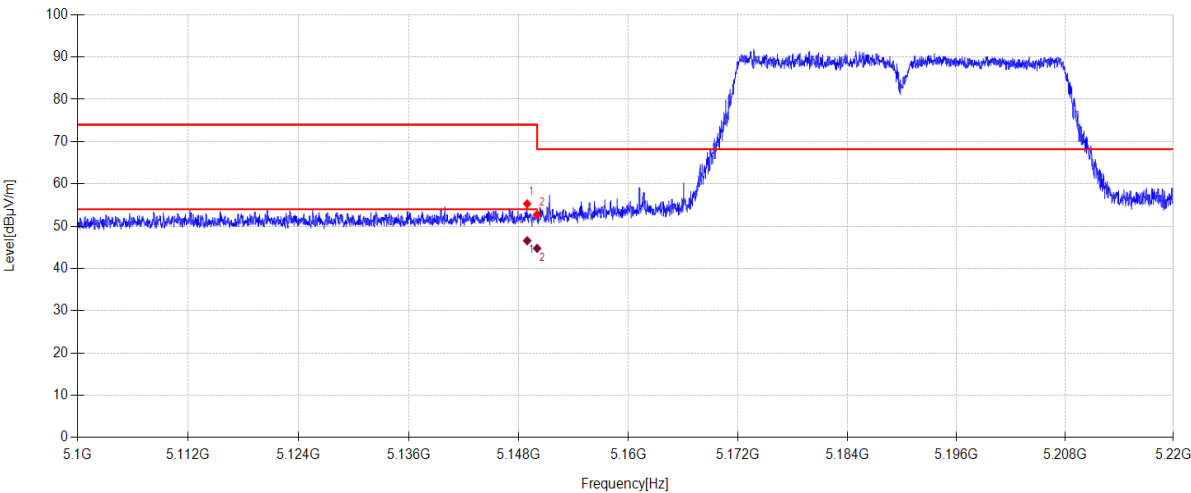
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d:\ts\2024 report data\Q24101411-1E\FCC RE Above 1G 5G\20

Memo:

Sample Number:S24101411 Power Setting:10

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5148.912	46.21	33.40	5.28	-29.60	55.29	74.00	18.71	PK	Horizontal
2	5150.000	43.67	33.40	5.28	-29.60	52.75	68.20	15.45	PK	Horizontal

Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	
1	5148.912	37.48	33.40	5.28	46.56	54	7.44	AV	Horizontal	
2	5150.000	35.67	33.40	5.28	44.75	54	9.25	AV	Horizontal	

- Note:
1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-10-30

Tested By:

Guoyuan Lin

EUT:

In-vehicle Multimedia Host

Model Number:

MTCD03

Test Mode:

11AC80 5210 MHz TX Mode

Power Supply:

DC 12V

Condition:

Temp:21.9°C;Humi:51.0%

Test Site:

DDT 3# Chamber

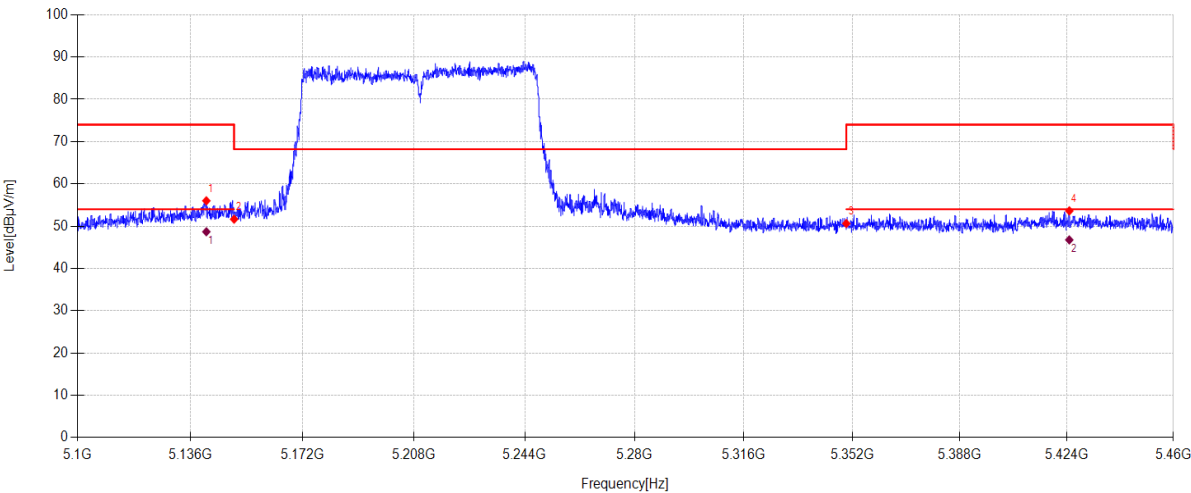
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d:\ts\2024 report data\Q24101411-1E\FCC RE Above 1G 5G\21

Memo:

Sample Number:S24101411 Power Setting:10

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5141.112	46.93	33.40	5.27	-29.60	56.00	74.00	18.00	PK	Horizontal
2	5150.000	42.56	33.40	5.28	-29.60	51.64	68.20	16.56	PK	Horizontal
3	5350.000	41.71	33.10	5.41	-29.60	50.62	74.00	23.38	PK	Horizontal
4	5424.756	44.71	33.05	5.46	-29.60	53.62	74.00	20.38	PK	Horizontal

Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5141.112	39.61	33.40	5.27	48.68	54	5.32	AV	Horizontal
2	5424.756	37.84	33.05	5.46	46.75	54	7.25	AV	Horizontal

- Note:
1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-10-30

Tested By:

Guoyuan Lin

EUT:

In-vehicle Multimedia Host

Model Number:

MTCD03

Test Mode:

11AC80 5290 MHz TX Mode

Power Supply:

DC 12V

Condition:

Temp:21.9°C;Humi:51.0%

Test Site:

DDT 3# Chamber

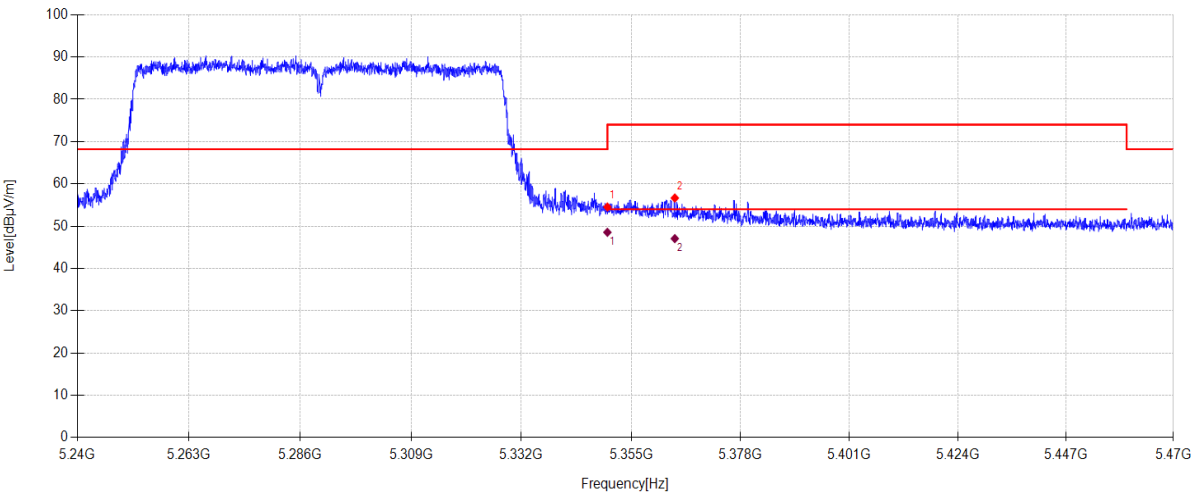
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d:\ts\2024 report data\Q24101411-1E\FCC RE Above 1G 5G\22

Memo:

Sample Number:S24101411 Power Setting:10

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5350.000	45.63	33.10	5.41	-29.60	54.54	74.00	19.46	PK	Horizontal
2	5364.154	47.73	33.10	5.42	-29.60	56.65	74.00	17.35	PK	Horizontal

Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5350.000	39.64	33.10	5.41	48.55	54	5.45	AV	Horizontal
2	5364.154	38.14	33.10	5.42	47.06	54	6.94	AV	Horizontal

- Note:
1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-10-30

Tested By:

Guoyuan Lin

EUT:

In-vehicle Multimedia Host

Model Number:

MTCD03

Test Mode:

11AC80 5530 MHz TX Mode

Power Supply:

DC 12V

Condition:

Temp:21.9°C;Humi:51.0%

Test Site:

DDT 3# Chamber

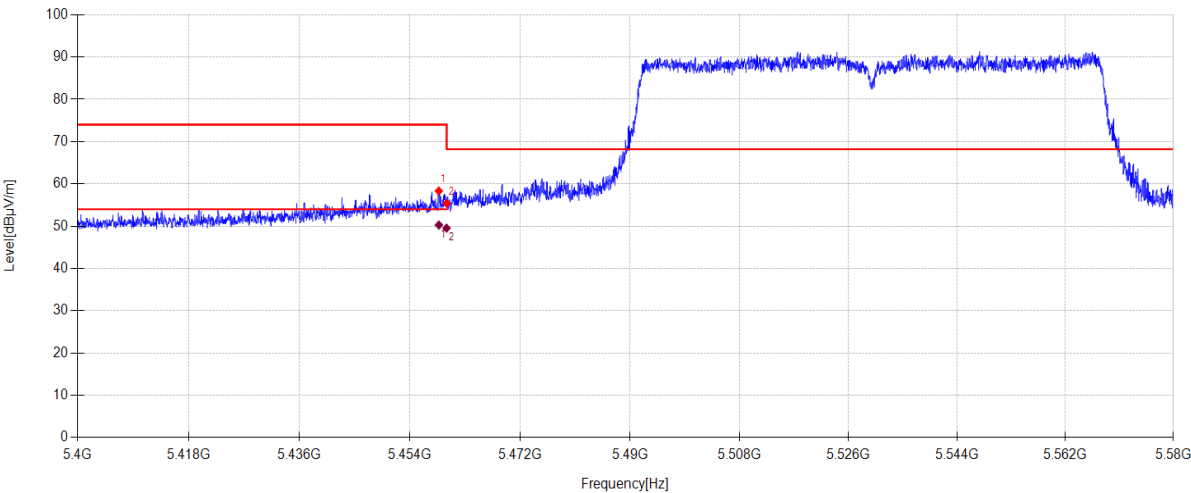
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Memo:

Sample Number:S24101411 Power Setting:10

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5458.716	49.45	33.00	5.48	-29.60	58.33	74.00	15.67	PK	Horizontal
2	5460.000	46.49	33.00	5.48	-29.60	55.37	68.20	12.83	PK	Horizontal

Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5458.732	41.39	33.00	5.48	50.27	54	3.73	AV	Horizontal
2	5459.979	40.65	33.00	5.48	49.53	54	4.47	AV	Horizontal

- Note:
1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-10-30

Tested By:

Guoyuan Lin

EUT:

In-vehicle Multimedia Host

Model Number:

MTCD03

Test Mode:

11AC80 5610 MHz TX Mode

Power Supply:

DC 12V

Condition:

Temp:21.9°C;Humi:51.0%

Test Site:

DDT 3# Chamber

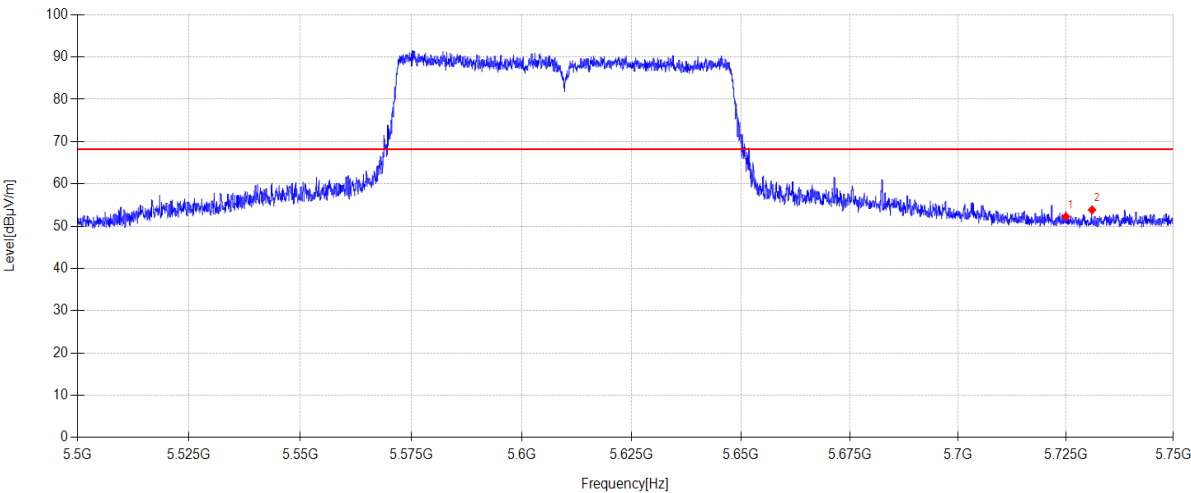
File Path:

d:\ts\2024 report data\Q24101411-1E\FCC RE Above 1G 5G\24

Memo:

Sample Number:S24101411 Power Setting:10

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5725.000	42.43	33.75	5.66	-29.60	52.24	68.20	15.96	PK	Horizontal
2	5731.075	44.01	33.79	5.66	-29.60	53.86	68.20	14.34	PK	Horizontal

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-10-30

Tested By:

Guoyuan Lin

EUT:

In-vehicle Multimedia Host

Model Number:

MTCD03

Test Mode:

11AC80 5690 MHz TX Mode

Power Supply:

DC12V

Condition:

Temp:21.9°C;Humi:51.0%

Test Site:

DDT 3# Chamber

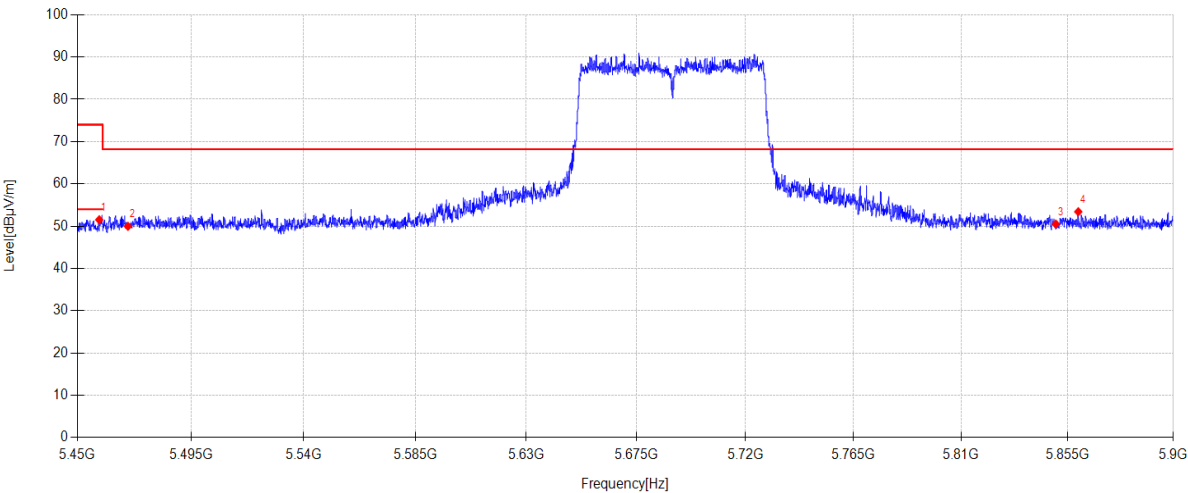
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Memo:

Sample Number:S24101411 Power Setting:10

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5458.640	42.63	33.00	5.48	-29.60	51.51	74.00	22.49	PK	Horizontal
2	5470.000	41.08	33.00	5.49	-29.60	49.97	68.20	18.23	PK	Horizontal
3	5850.000	40.36	34.00	5.74	-29.60	50.50	68.20	17.70	PK	Horizontal
4	5859.545	43.24	34.02	5.75	-29.60	53.41	68.20	14.79	PK	Horizontal

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-10-30

Tested By:

Guoyuan Lin

EUT:

In-vehicle Multimedia Host

Model Number:

MTCD03

Test Mode:

11AC40 5710 MHz TX Mode

Power Supply:

DC12V

Condition:

Temp:21.9°C;Humi:51.0%

Test Site:

DDT 3# Chamber

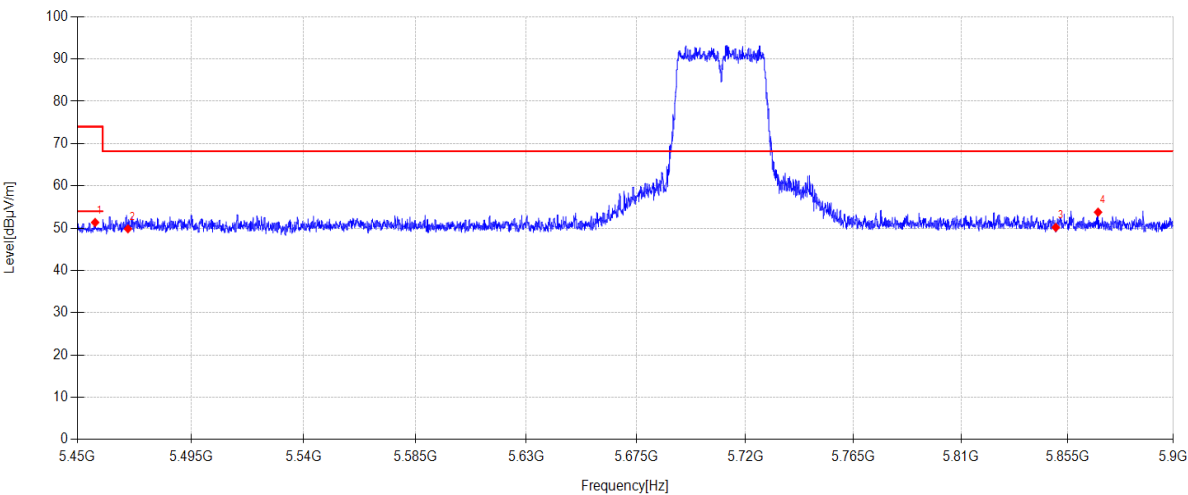
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Memo:

Sample Number:S24101411 Power Setting:10

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5457.020	42.47	33.00	5.48	-29.60	51.35	74.00	21.65	PK	Horizontal
2	5470.000	40.96	33.00	5.49	-29.60	49.85	68.20	18.35	PK	Horizontal
3	5850.000	40.04	34.00	5.74	-29.60	50.18	68.20	18.02	PK	Horizontal
4	5867.960	43.59	34.04	5.75	-29.60	53.78	68.20	14.42	PK	Horizontal

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-10-30

Tested By:

Guoyuan Lin

EUT:

In-vehicle Multimedia Host

Model Number:

MTCD03

Test Mode:

11N40 5710 MHz TX Mode

Power Supply:

DC12V

Condition:

Temp:21.9°C;Humi:51.0%

Test Site:

DDT 3# Chamber

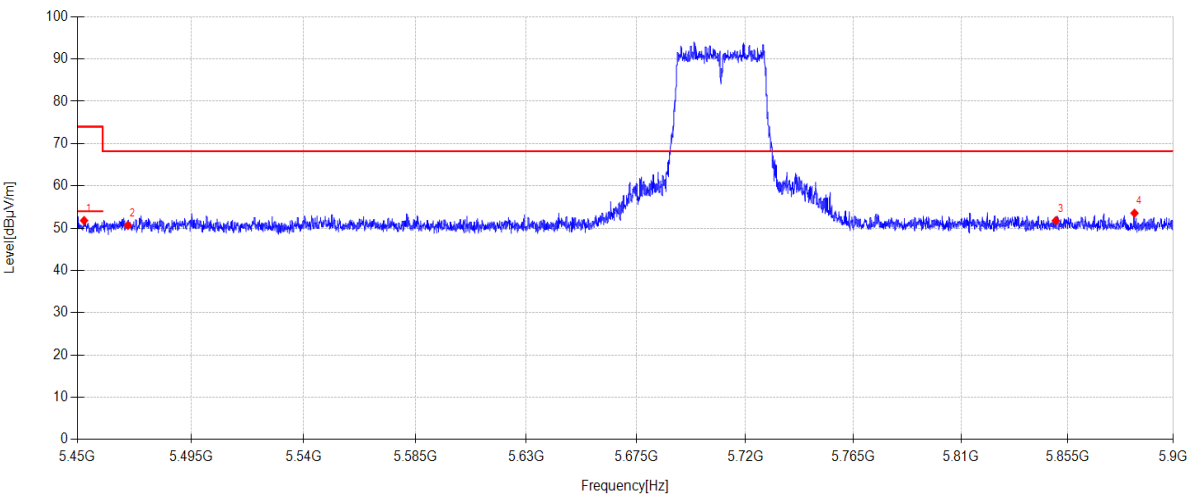
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Memo:

Sample Number:S24101411 Power Setting:10

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5452.655	42.93	33.00	5.48	-29.60	51.81	74.00	22.19	PK	Horizontal
2	5470.000	41.76	33.00	5.49	-29.60	50.65	68.20	17.55	PK	Horizontal
3	5850.000	41.63	34.00	5.74	-29.60	51.77	68.20	16.43	PK	Horizontal
4	5883.440	43.31	34.07	5.76	-29.60	53.54	68.20	14.66	PK	Horizontal

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-10-30

Tested By:

Guoyuan Lin

EUT:

In-vehicle Multimedia Host

Model Number:

MTCD03

Test Mode:

11AC20 5720 MHz TX Mode

Power Supply:

DC12V

Condition:

Temp:21.9°C;Humi:51.0%

Test Site:

DDT 3# Chamber

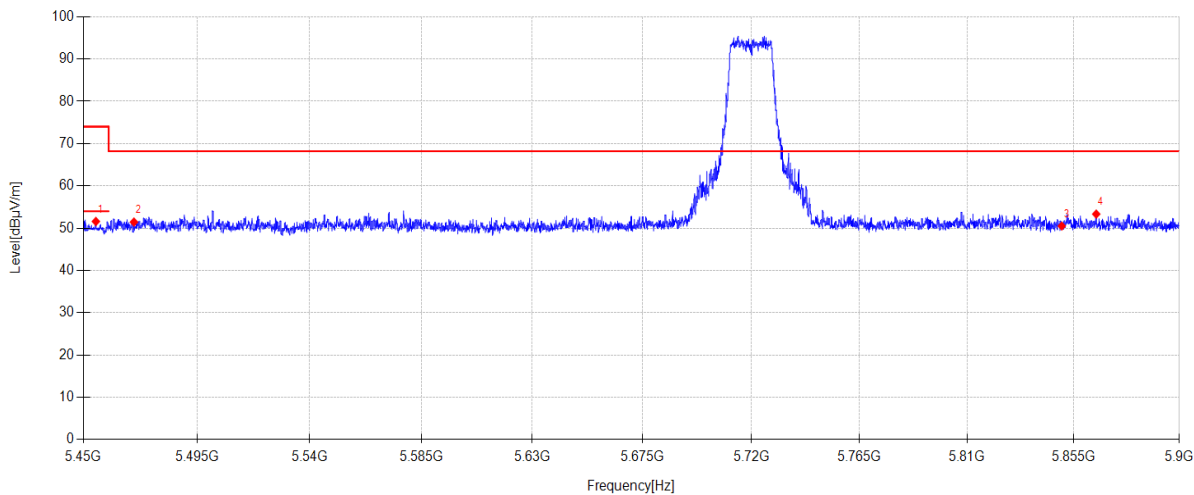
File Path:

d:\ts\2024 report data\Q24101411-1E\KUAYUE\4

Memo:

Sample Number:S24101411 Power Setting:10

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5454.950	42.71	33.00	5.48	-29.60	51.59	74.00	21.91	PK	Horizontal
2	5470.000	42.55	33.00	5.49	-29.60	51.44	68.20	16.76	PK	Horizontal
3	5850.000	40.36	34.00	5.74	-29.60	50.50	68.20	17.70	PK	Horizontal
4	5864.630	43.15	34.03	5.75	-29.60	53.33	68.20	14.87	PK	Horizontal

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-10-30

Tested By:

Guoyuan Lin

EUT:

In-vehicle Multimedia Host

Model Number:

MTCD03

Test Mode:

11N20 5720 MHz TX Mode

Power Supply:

DC12V

Condition:

Temp:21.9°C;Humi:51.0%

Test Site:

DDT 3# Chamber

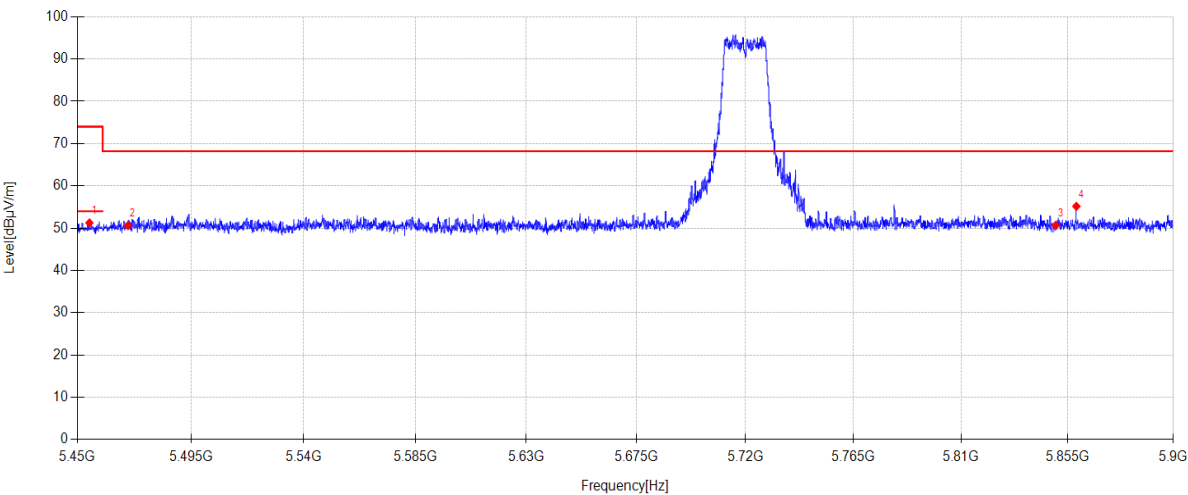
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d:\ts\2024 report data\Q24101411-1E\KUAYUE\5

Memo:

Sample Number:S24101411 Power Setting:10

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5454.770	42.37	33.00	5.48	-29.60	51.25	74.00	22.75	PK	Horizontal
2	5470.000	41.71	33.00	5.49	-29.60	50.60	68.20	17.60	PK	Horizontal
3	5850.000	40.55	34.00	5.74	-29.60	50.69	68.20	17.51	PK	Horizontal
4	5858.735	45.00	34.02	5.75	-29.60	55.17	68.20	13.03	PK	Horizontal

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-10-30

Tested By:

Guoyuan Lin

EUT:

In-vehicle Multimedia Host

Model Number:

MTCD03

Test Mode:

11A 5720 MHz TX Mode

Power Supply:

DC12V

Condition:

Temp:21.9°C;Humi:51.0%

Test Site:

DDT 3# Chamber

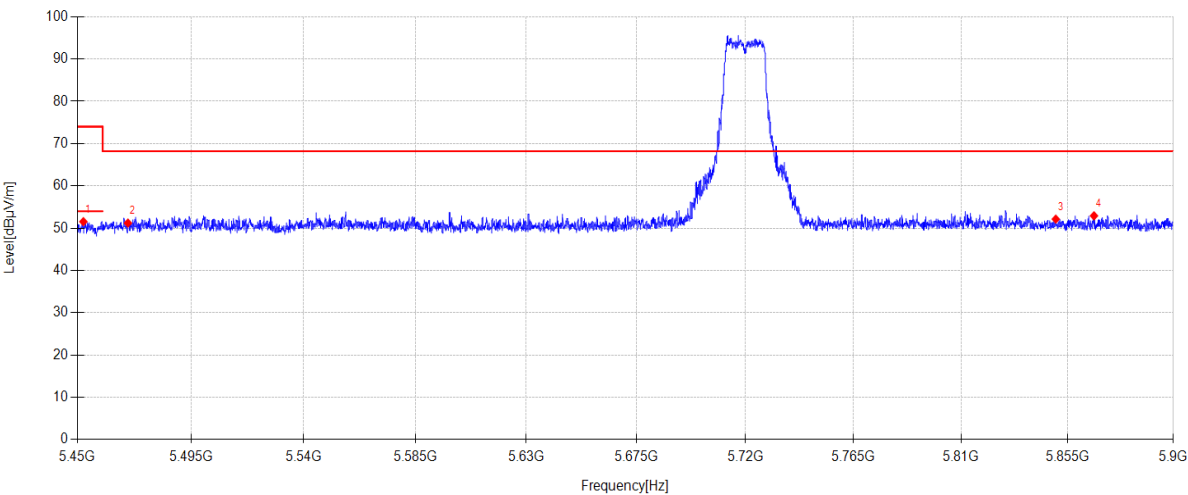
File Path:

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Memo:

Sample Number:S24101411 Power Setting:10

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5452.385	42.65	33.00	5.48	-29.60	51.53	74.00	22.47	PK	Horizontal
2	5470.000	42.32	33.00	5.49	-29.60	51.21	68.20	16.99	PK	Horizontal
3	5850.000	42.00	34.00	5.74	-29.60	52.14	68.20	16.06	PK	Horizontal
4	5866.205	42.74	34.03	5.75	-29.60	52.92	68.20	15.28	PK	Horizontal

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-10-30

Tested By:

Guoyuan Lin

EUT:

In-vehicle Multimedia Host

Model Number:

MTCD03

Test Mode:

11A 5745 MHz TX Mode

Power Supply:

DC 12V

Condition:

Temp:21.9°C;Humi:51.0%

Test Site:

DDT 3# Chamber

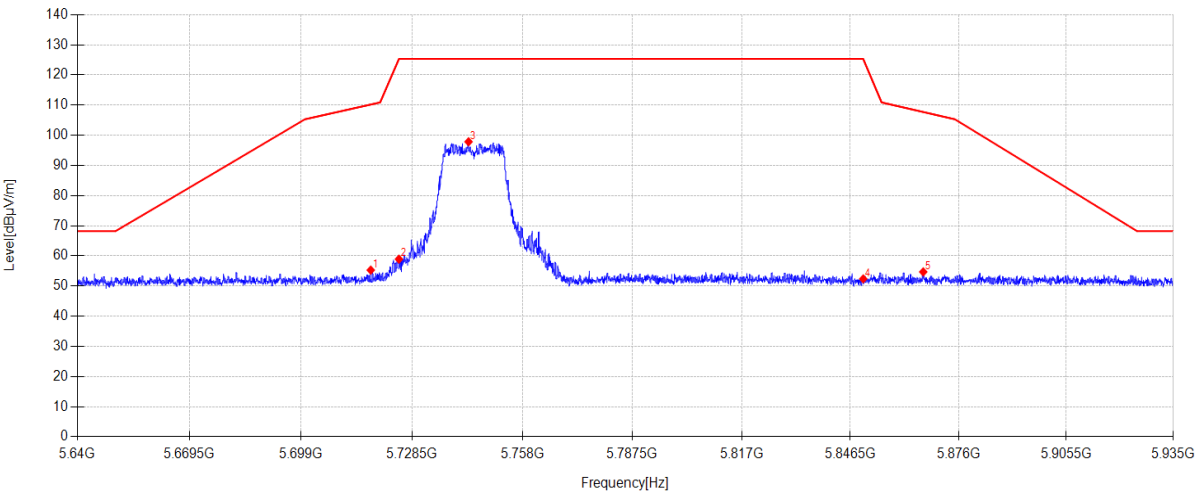
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Memo:

Sample Number:S24101411 Power Setting:10

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5717.497	45.31	33.70	5.87	-29.60	55.28	110.20	54.92	PK	Horizontal
2	5725.000	48.90	33.75	5.87	-29.60	58.92	125.30	66.38	PK	Horizontal
3	5743.575	87.71	33.86	5.88	-29.60	97.85	125.30	27.45	PK	Horizontal
4	5850.000	42.03	34.00	5.94	-29.60	52.37	125.27	72.90	PK	Horizontal
5	5866.354	44.32	34.03	5.94	-29.60	54.69	107.72	53.03	PK	Horizontal

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-10-30

Tested By:

Guoyuan Lin

EUT:

In-vehicle Multimedia Host

Model Number:

MTCD03

Test Mode:

11A 5785 MHz TX Mode

Power Supply:

DC 12V

Condition:

Temp:21.9°C;Humi:51.0%

Test Site:

DDT 3# Chamber

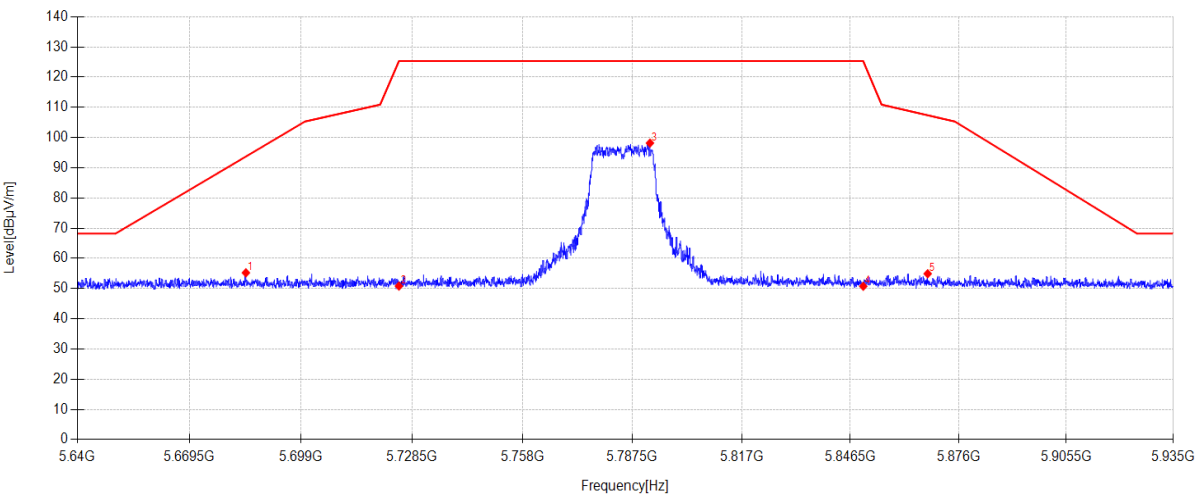
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Memo:

Sample Number:S24101411 Power Setting:10

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5684.398	45.44	33.54	5.85	-29.60	55.23	93.72	38.49	PK	Horizontal
2	5725.000	40.80	33.75	5.87	-29.60	50.82	125.30	74.48	PK	Horizontal
3	5792.250	87.71	34.15	5.91	-29.60	98.17	125.30	27.13	PK	Horizontal
4	5850.000	40.43	34.00	5.94	-29.60	50.77	125.27	74.50	PK	Horizontal
5	5867.563	44.53	34.04	5.94	-29.60	54.91	107.38	52.47	PK	Horizontal

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-10-30

Tested By:

Guoyuan Lin

EUT:

In-vehicle Multimedia Host

Model Number:

MTCD03

Test Mode:

11A 5825 MHz TX Mode

Power Supply:

DC 12V

Condition:

Temp:21.9°C;Humi:51.0%

Test Site:

DDT 3# Chamber

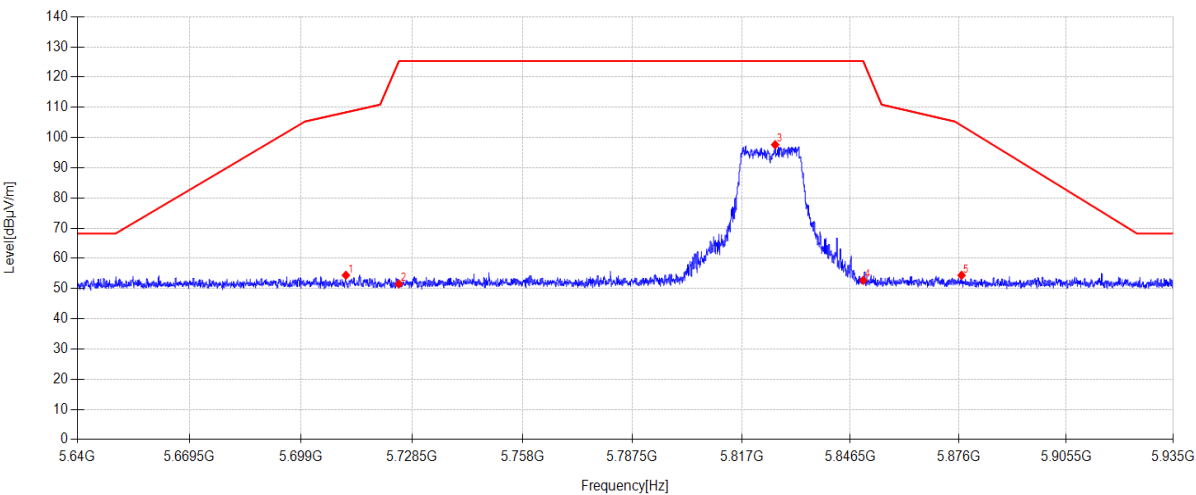
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Memo:

Sample Number:S24101411 Power Setting:10

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5710.889	44.47	33.67	5.87	-29.60	54.41	108.35	53.94	PK	Horizontal
2	5725.000	41.49	33.75	5.87	-29.60	51.51	125.30	73.79	PK	Horizontal
3	5826.086	87.21	34.10	5.92	-29.60	97.63	125.30	27.67	PK	Horizontal
4	5850.000	42.39	34.00	5.94	-29.60	52.73	125.27	72.54	PK	Horizontal
5	5876.826	44.00	34.05	5.95	-29.60	54.40	103.95	49.55	PK	Horizontal

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-10-30

Tested By:

Guoyuan Lin

EUT:

In-vehicle Multimedia Host

Model Number:

MTCD03

Test Mode:

11N20 5825 MHz TX Mode

Power Supply:

DC 12V

Condition:

Temp:21.9°C;Humi:51.0%

Test Site:

DDT 3# Chamber

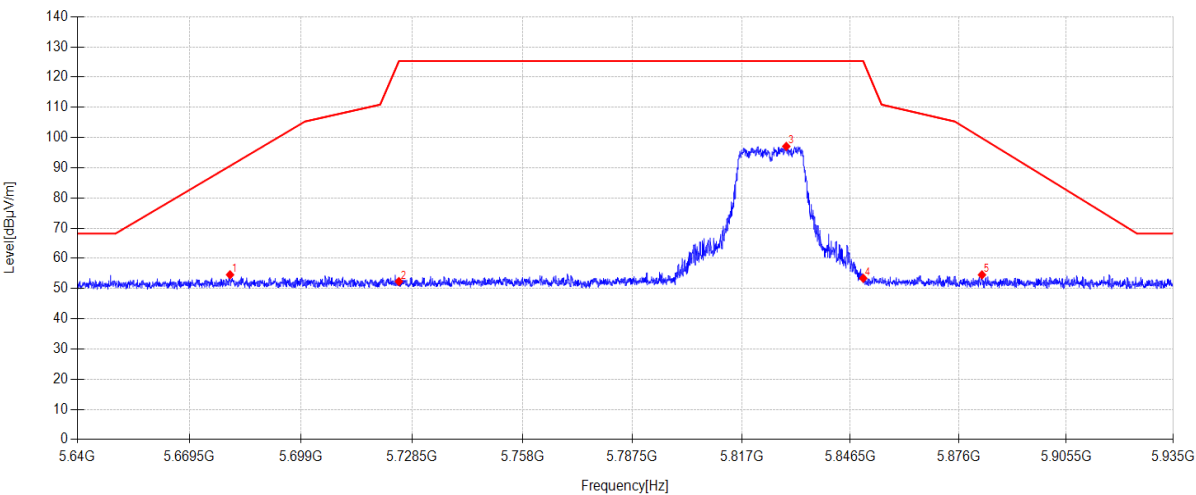
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Memo:

Sample Number:S24101411 Power Setting:10

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5680.209	44.80	33.52	5.85	-29.60	54.57	90.61	36.04	PK	Horizontal
2	5725.000	42.31	33.75	5.87	-29.60	52.33	125.30	72.97	PK	Horizontal
3	5829.095	86.68	34.08	5.92	-29.60	97.08	125.30	28.22	PK	Horizontal
4	5850.000	43.07	34.00	5.94	-29.60	53.41	125.27	71.86	PK	Horizontal
5	5882.402	44.14	34.06	5.95	-29.60	54.55	99.81	45.26	PK	Horizontal

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-10-30

Tested By:

Guoyuan Lin

EUT:

In-vehicle Multimedia Host

Model Number:

MTCD03

Test Mode:

11N20 5785 MHz TX Mode

Power Supply:

DC 12V

Condition:

Temp:21.9°C;Humi:51.0%

Test Site:

DDT 3# Chamber

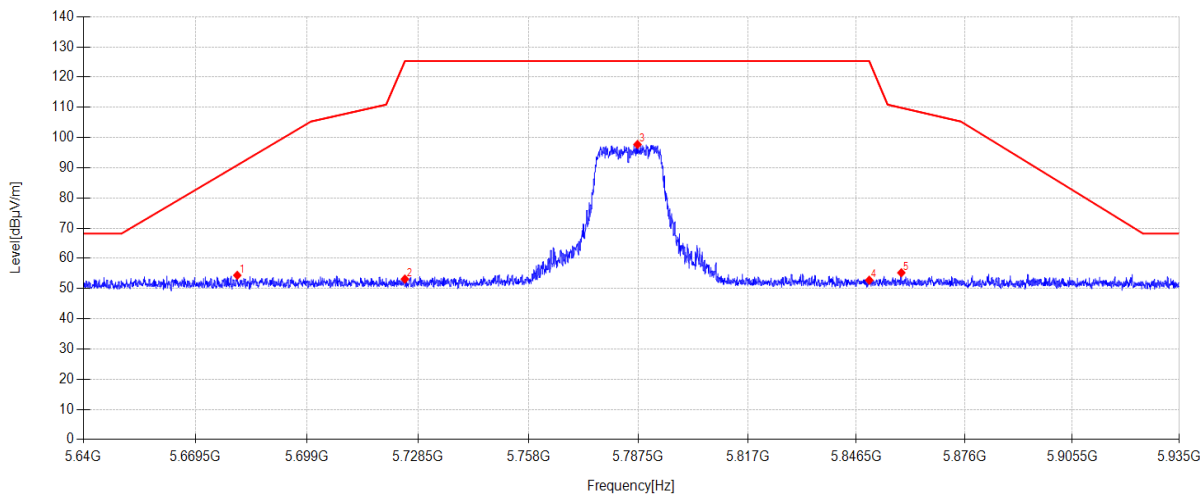
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Memo:

Sample Number:S24101411 Power Setting:10

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5680.533	44.61	33.52	5.85	-29.60	54.38	90.86	36.48	PK	Horizontal
2	5725.000	43.12	33.75	5.87	-29.60	53.14	125.30	72.16	PK	Horizontal
3	5787.264	87.28	34.12	5.90	-29.60	97.70	125.30	27.60	PK	Horizontal
4	5850.000	42.43	34.00	5.94	-29.60	52.77	125.27	72.50	PK	Horizontal
5	5858.743	44.88	34.02	5.94	-29.60	55.24	109.85	54.61	PK	Horizontal

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-10-30

Tested By:

Guoyuan Lin

EUT:

In-vehicle Multimedia Host

Model Number:

MTCD03

Test Mode:

11N20 5745 MHz TX Mode

Power Supply:

DC 12V

Condition:

Temp:21.9°C;Humi:51.0%

Test Site:

DDT 3# Chamber

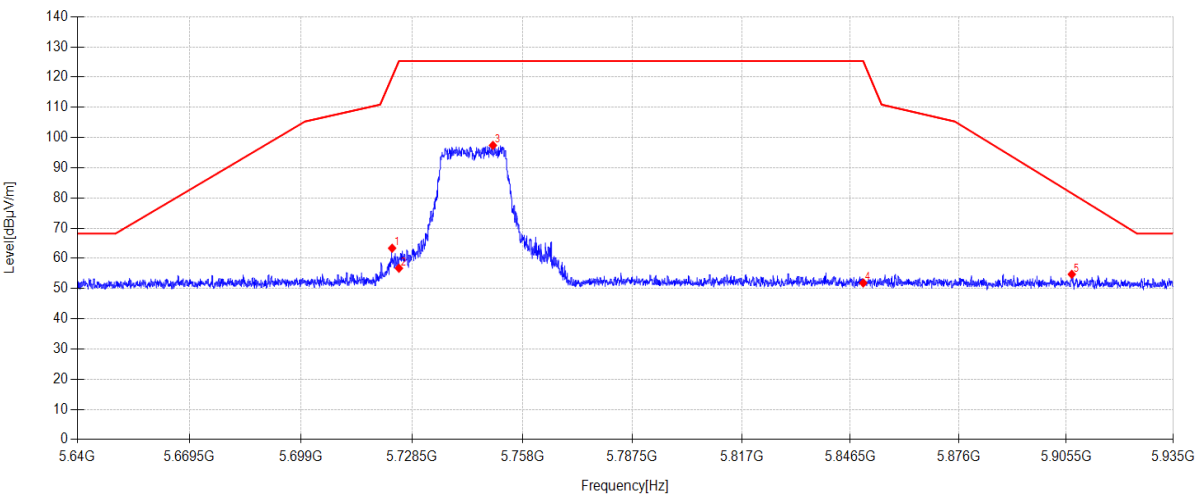
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Memo:

Sample Number:S24101411 Power Setting:10

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5723.190	53.35	33.74	5.87	-29.60	63.36	120.09	56.73	PK	Horizontal
2	5725.000	46.71	33.75	5.87	-29.60	56.73	125.30	68.57	PK	Horizontal
3	5750.094	87.22	33.90	5.89	-29.60	97.41	125.30	27.89	PK	Horizontal
4	5850.000	41.51	34.00	5.94	-29.60	51.85	125.27	73.42	PK	Horizontal
5	5907.034	44.26	34.11	5.96	-29.60	54.73	81.53	26.80	PK	Horizontal

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-10-30

Tested By:

Guoyuan Lin

EUT:

In-vehicle Multimedia Host

Model Number:

MTCD03

Test Mode:

11AC20 5745 MHz TX Mode

Power Supply:

DC 12V

Condition:

Temp:21.9°C;Humi:51.0%

Test Site:

DDT 3# Chamber

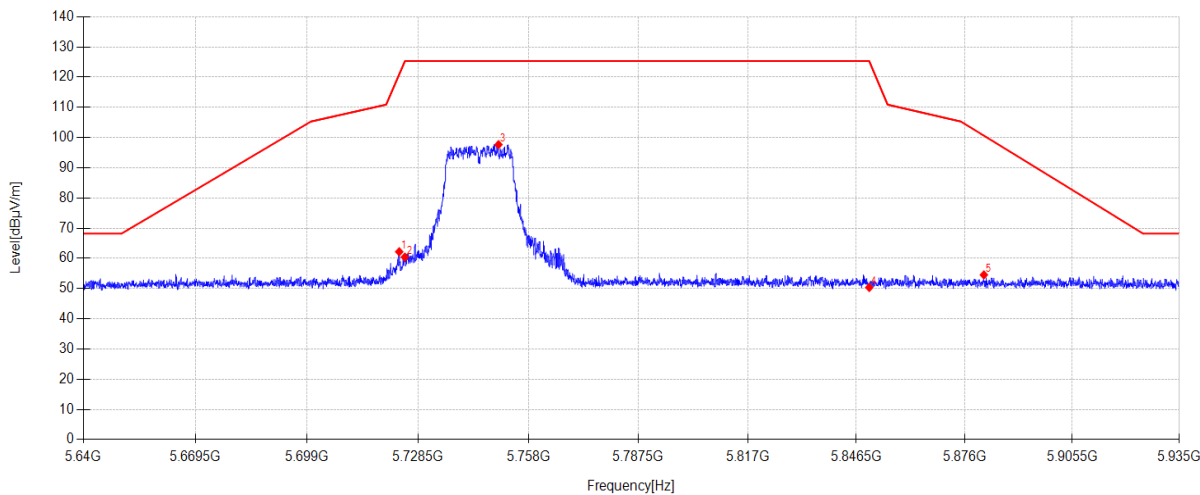
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Memo:

Sample Number:S24101411 Power Setting:10

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5723.485	52.18	33.74	5.87	-29.60	62.19	120.94	58.75	PK	Horizontal
2	5725.000	50.40	33.75	5.87	-29.60	60.42	125.30	64.88	PK	Horizontal
3	5749.976	87.47	33.90	5.88	-29.60	97.65	125.30	27.65	PK	Horizontal
4	5850.000	40.02	34.00	5.94	-29.60	50.36	125.27	74.91	PK	Horizontal
5	5881.281	44.13	34.06	5.95	-29.60	54.54	100.64	46.10	PK	Horizontal

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-10-30

Tested By:

Guoyuan Lin

EUT:

In-vehicle Multimedia Host

Model Number:

MTCD03

Test Mode:

11AC20 5785 MHz TX Mode

Power Supply:

DC 12V

Condition:

Temp:21.9°C;Humi:51.0%

Test Site:

DDT 3# Chamber

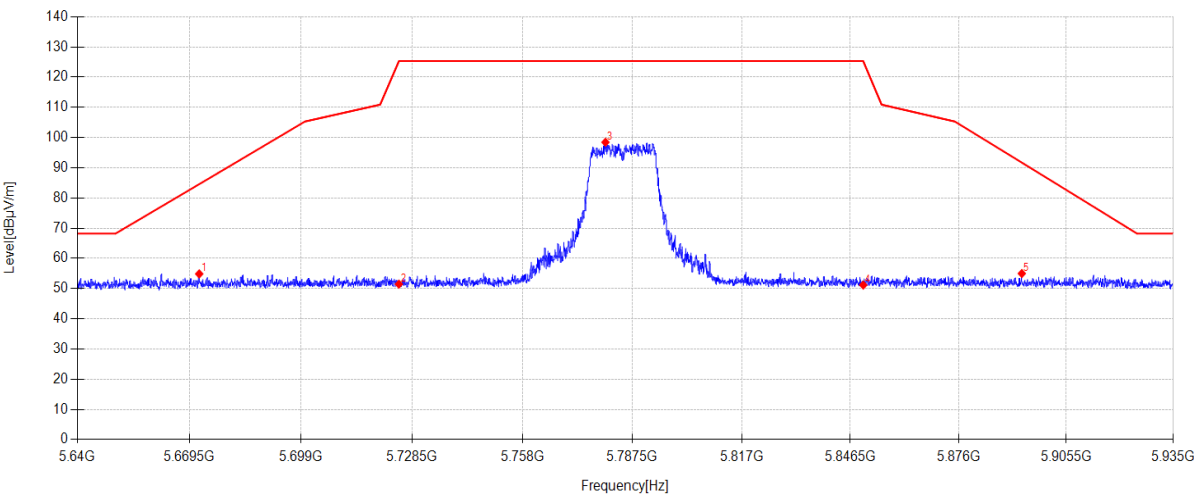
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Memo:

Sample Number:S24101411 Power Setting:10

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5672.067	45.12	33.49	5.85	-29.60	54.86	84.57	29.71	PK	Horizontal
2	5725.000	41.45	33.75	5.87	-29.60	51.47	125.30	73.83	PK	Horizontal
3	5780.273	88.06	34.08	5.90	-29.60	98.44	125.30	26.86	PK	Horizontal
4	5850.000	40.83	34.00	5.94	-29.60	51.17	125.27	74.10	PK	Horizontal
5	5893.317	44.54	34.09	5.96	-29.60	54.99	91.71	36.72	PK	Horizontal

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-10-30

Tested By:

Guoyuan Lin

EUT:

In-vehicle Multimedia Host

Model Number:

MTCD03

Test Mode:

11AC20 5825 MHz TX Mode

Power Supply:

DC 12V

Condition:

Temp:21.9°C;Humi:51.0%

Test Site:

DDT 3# Chamber

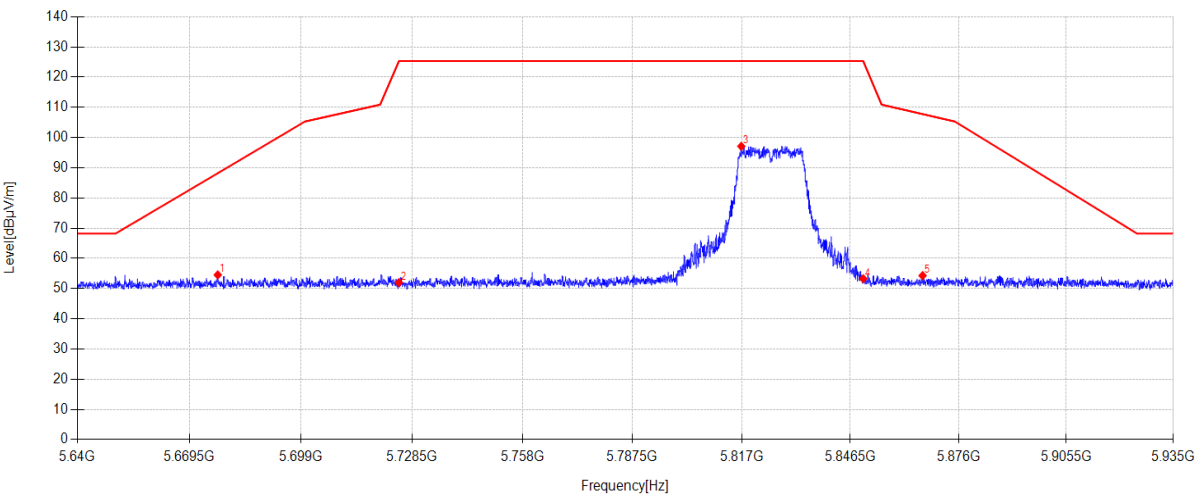
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Memo:

Sample Number:S24101411 Power Setting:10

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5676.964	44.77	33.51	5.85	-29.60	54.53	88.21	33.68	PK	Horizontal
2	5725.000	41.96	33.75	5.87	-29.60	51.98	125.30	73.32	PK	Horizontal
3	5816.912	86.67	34.13	5.92	-29.60	97.12	125.30	28.18	PK	Horizontal
4	5850.000	42.91	34.00	5.94	-29.60	53.25	125.27	72.02	PK	Horizontal
5	5866.177	43.92	34.03	5.94	-29.60	54.29	107.77	53.48	PK	Horizontal

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-10-30

Tested By:

Guoyuan Lin

EUT:

In-vehicle Multimedia Host

Model Number:

MTCD03

Test Mode:

11AC40 5755 MHz TX Mode

Power Supply:

DC 12V

Condition:

Temp:21.9°C;Humi:51.0%

Test Site:

DDT 3# Chamber

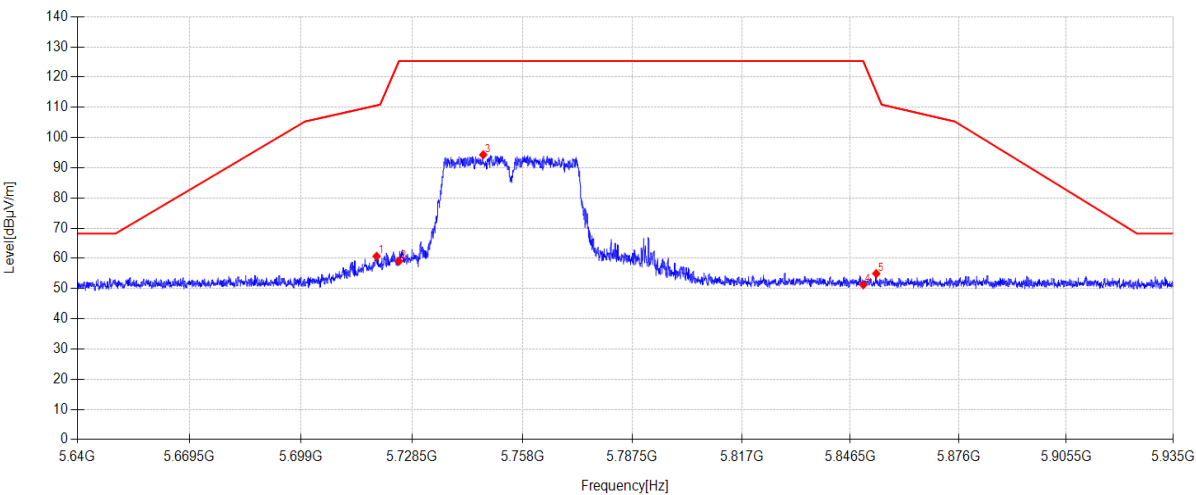
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Memo:

Sample Number:S24101411 Power Setting:10

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5719.060	50.71	33.71	5.87	-29.60	60.69	110.64	49.95	PK	Horizontal
2	5725.000	49.04	33.75	5.87	-29.60	59.06	125.30	66.24	PK	Horizontal
3	5747.498	84.14	33.88	5.88	-29.60	94.30	125.30	31.00	PK	Horizontal
4	5850.000	40.91	34.00	5.94	-29.60	51.25	125.27	74.02	PK	Horizontal
5	5853.551	44.61	34.01	5.94	-29.60	54.96	115.07	60.11	PK	Horizontal

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-10-30

Tested By:

Guoyuan Lin

EUT:

In-vehicle Multimedia Host

Model Number:

MTCD03

Test Mode:

11AC40 5795 MHz TX Mode

Power Supply:

DC 12V

Condition:

Temp:21.9°C;Humi:51.0%

Test Site:

DDT 3# Chamber

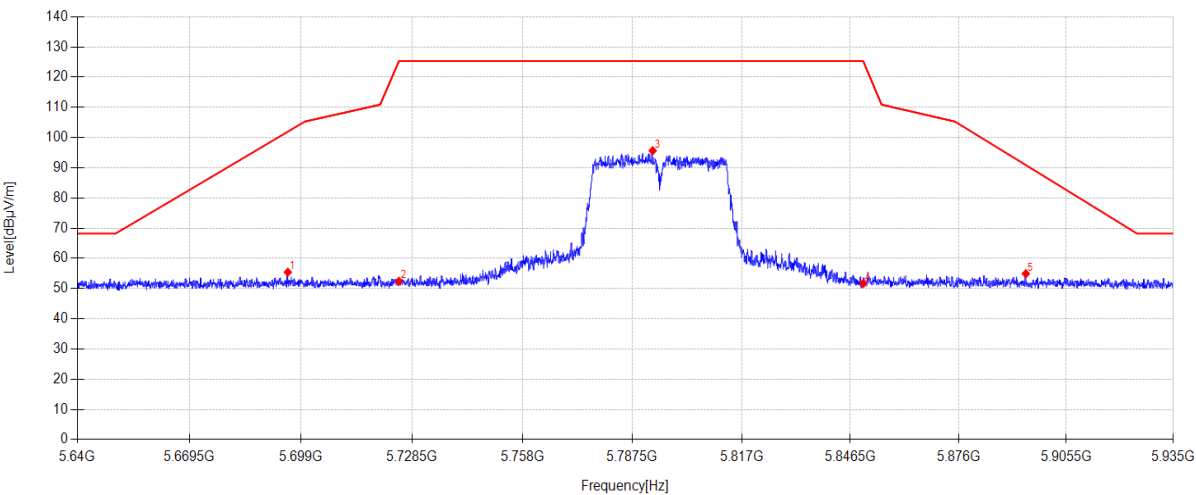
File Path:

d:\ts\2024 report data\Q24101411-1E\MASK\11

Memo:

Sample Number:S24101411 Power Setting:10

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5695.490	45.58	33.58	5.86	-29.60	55.42	101.95	46.53	PK	Horizontal
2	5725.000	42.41	33.75	5.87	-29.60	52.43	125.30	72.87	PK	Horizontal
3	5792.987	85.18	34.16	5.91	-29.60	95.65	125.30	29.65	PK	Horizontal
4	5850.000	41.36	34.00	5.94	-29.60	51.70	125.27	73.57	PK	Horizontal
5	5894.408	44.47	34.09	5.96	-29.60	54.92	90.90	35.98	PK	Horizontal

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-10-30

Tested By:

Guoyuan Lin

EUT:

In-vehicle Multimedia Host

Model Number:

MTCD03

Test Mode:

11N40 5795 MHz TX Mode

Power Supply:

DC 12V

Condition:

Temp:21.9°C;Humi:51.0%

Test Site:

DDT 3# Chamber

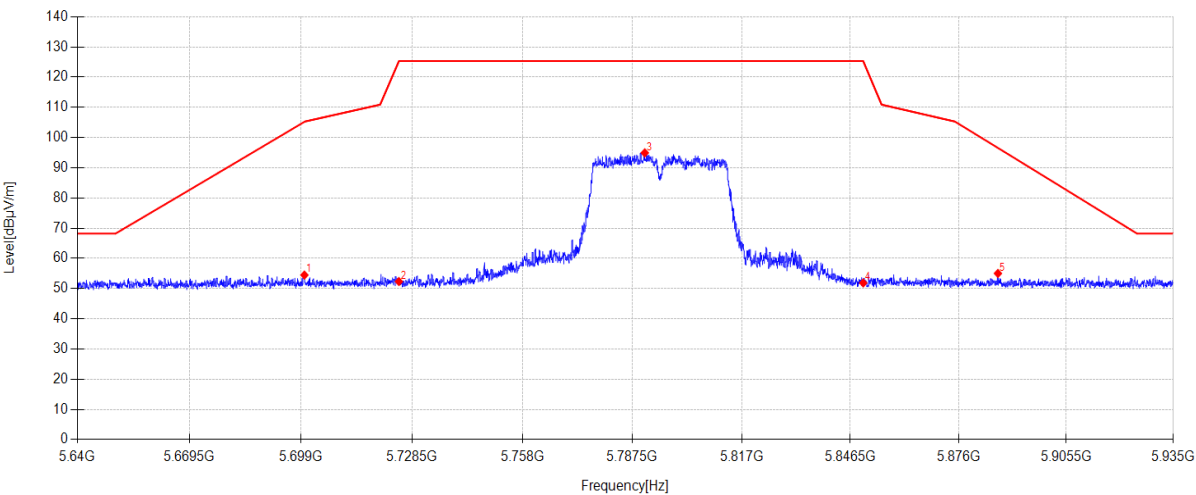
File Path:

d:\ts\2024 report data\Q24101411-1E\MASK\12

Memo:

Sample Number:S24101411 Power Setting:10

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5699.885	44.62	33.60	5.86	-29.60	54.48	105.21	50.73	PK	Horizontal
2	5725.000	42.31	33.75	5.87	-29.60	52.33	125.30	72.97	PK	Horizontal
3	5790.863	84.47	34.15	5.91	-29.60	94.93	125.30	30.37	PK	Horizontal
4	5850.000	41.53	34.00	5.94	-29.60	51.87	125.27	73.40	PK	Horizontal
5	5886.768	44.59	34.07	5.95	-29.60	55.01	96.57	41.56	PK	Horizontal

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-10-30

Tested By:

Guoyuan Lin

EUT:

In-vehicle Multimedia Host

Model Number:

MTCD03

Test Mode:

11N40 5755 MHz TX Mode

Power Supply:

DC 12V

Condition:

Temp:21.9°C;Humi:51.0%

Test Site:

DDT 3# Chamber

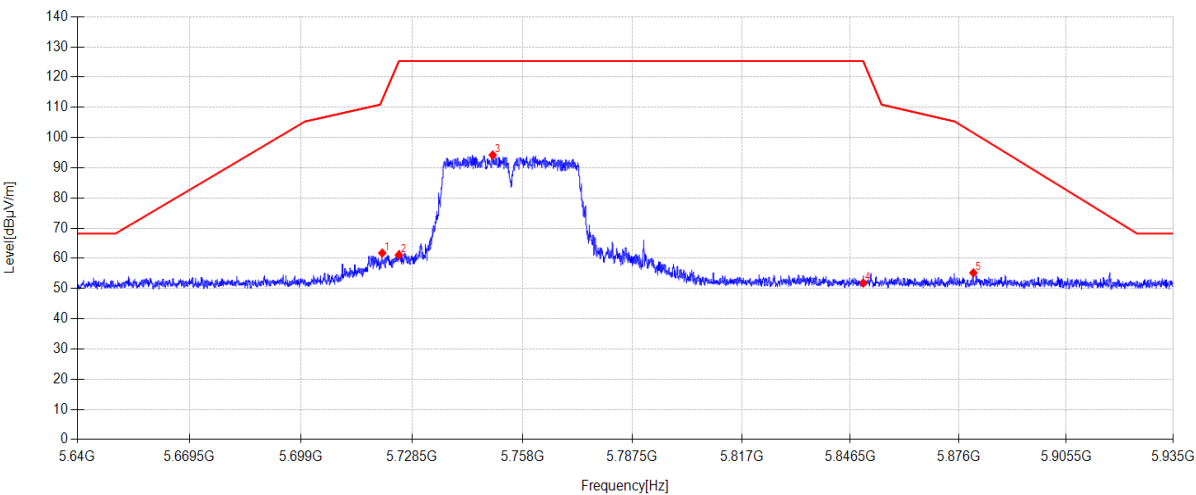
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d:\ts\2024 report data\Q24101411-1E\MASK\13

Memo:

Sample Number:S24101411 Power Setting:10

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5720.565	51.77	33.72	5.87	-29.60	61.76	112.53	50.77	PK	Horizontal
2	5725.000	51.10	33.75	5.87	-29.60	61.12	125.30	64.18	PK	Horizontal
3	5750.035	84.02	33.90	5.89	-29.60	94.21	125.30	31.09	PK	Horizontal
4	5850.000	41.49	34.00	5.94	-29.60	51.83	125.27	73.44	PK	Horizontal
5	5880.071	44.80	34.06	5.95	-29.60	55.21	101.54	46.33	PK	Horizontal

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-10-30

Tested By:

Guoyuan Lin

EUT:

In-vehicle Multimedia Host

Model Number:

MTCD03

Test Mode:

11AC80 5775 MHz TX Mode

Power Supply:

DC 12V

Condition:

Temp:21.9°C;Humi:51.0%

Test Site:

DDT 3# Chamber

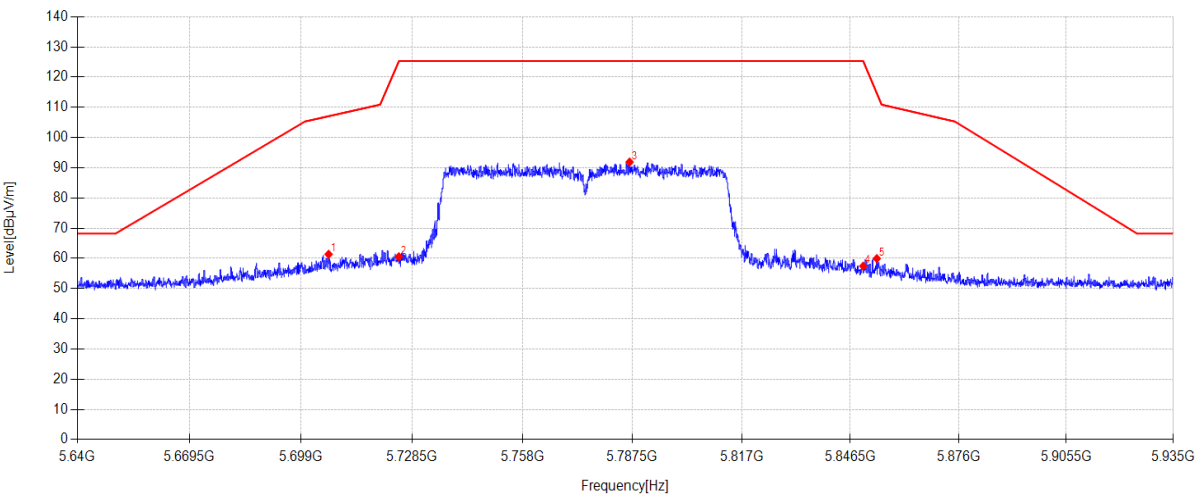
File Path:

d:\ts\2024 report data\Q24101411-1E\MASK\14

Memo:

Sample Number:S24101411 Power Setting:10

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5706.316	51.45	33.64	5.86	-29.60	61.35	107.07	45.72	PK	Horizontal
2	5725.000	50.52	33.75	5.87	-29.60	60.54	125.30	64.76	PK	Horizontal
3	5786.763	81.46	34.12	5.90	-29.60	91.88	125.30	33.42	PK	Horizontal
4	5850.000	47.07	34.00	5.94	-29.60	57.41	125.27	67.86	PK	Horizontal
5	5853.698	49.58	34.01	5.94	-29.60	59.93	114.65	54.72	PK	Horizontal

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

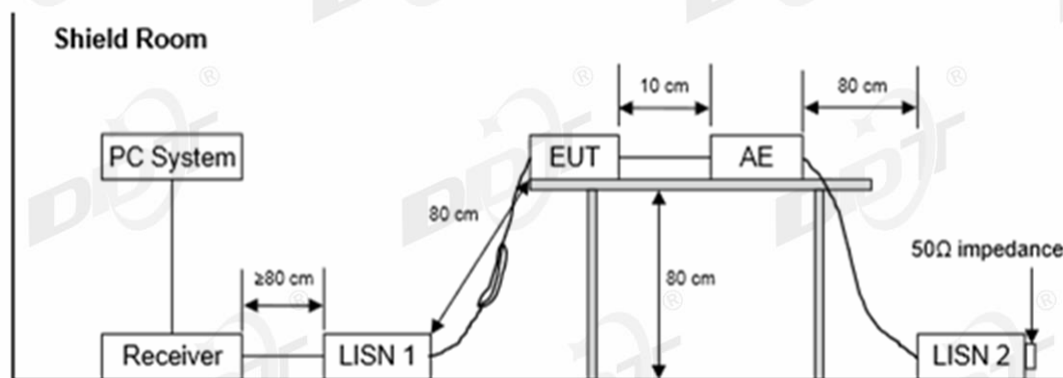
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

15. Power Line Conducted Emissions

15.1. Test equipment

Equipment	Manufacturer	Model No.	Serial No.	Cal Due To	Cal. Interval
Conducted Radiated Software	Audix	E3	DDT-ZC00562	/	/
Three-phase artificial power network	SCHWARZBECK	NSLK 8163	DDT-ZC01572	2025/07/08	1 Year
Two Line V-Network	R&S	ENV216	DDT-ZC02059	2025/07/08	1 Year
RF Cable	Yuhu Technology	Z806-NJ-NJ-6M	DDT-ZC02004	2025/07/08	1 Year
Δ -shaped artificial power network	SCHWARZBECK	PVDC 8301	DDT-ZC03939	2025/03/31	1 Year
EMI Test Receiver	R&S	ESCI/E3	DDT-ZC01297	2025/07/08	1 Year
Pulse Limiter	SCHWARZBECK	VTSD 9561	DDT-ZC02128	2025/07/08	1 Year
Two Line V-Network	R&S	ENV216	DDT-ZC02056	2025/07/08	1 Year

15.2. Block diagram of test setup



15.3. Limits

Frequency	Quasi-Peak Level dB(mV)	Average Level dB(mV)
150 kHz~500 kHz	66 ~ 56*	56 ~ 46*
500 kHz~5 MHz	56	46
5 MHz~30 MHz	60	50

Note 1: * Decreasing linearly with logarithm of frequency.

Note 2: The lower limit shall apply at the transition frequencies.

15.4. Assistant equipment used for test

Assistant equipment	Manufacturer	Model number	Description	other
/	/	/	/	/

15.5. Test procedure

The EUT and Support equipment, if needed, were put placed on a non-metallic table, 80cm above the ground plane.

All support equipment power received from a second LISN.

Emissions were measured on each current carrying line of the EUT using an EMI Test Receiver connected to the LISN powering the EUT.

The Receiver scanned from 150 kHz to 30 MHz for emissions in each of the test modes.

During the above scans, the emissions were maximized by cable manipulation.

The test mode(s) described in clause 2.4 were scanned during the preliminary test.

After the preliminary scan, we found the test mode producing the highest emission level.

The EUT configuration and worse cable configuration of the above highest emission levels were recorded for reference of the final test.

EUT and support equipment were set up on the test bench as per the configuration with highest emission level in the preliminary test.

A scan was taken on both power lines, Neutral and Line, recording at least the six highest emissions.

Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit.

The test data of the worst-case condition(s) was recorded.

The bandwidth of test receiver is set at 9 kHz.

15.6. Test result

Not applicable. EUT is DC powered.

17. Photos of the EUT

Please refer to DDT-Q24101411-2E appendix I

-----End Report-----