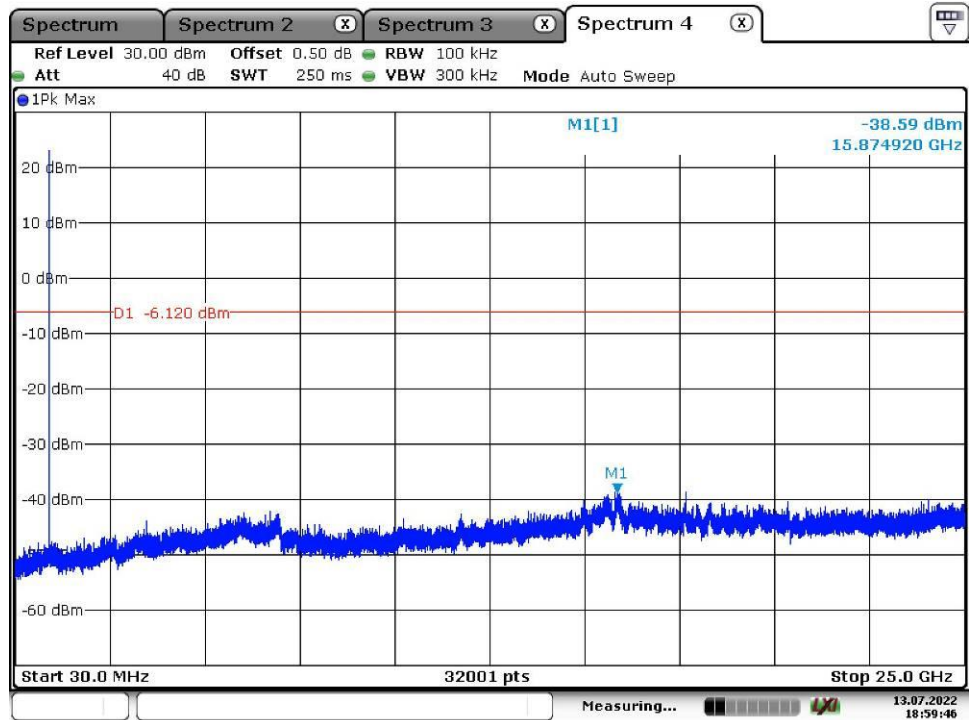
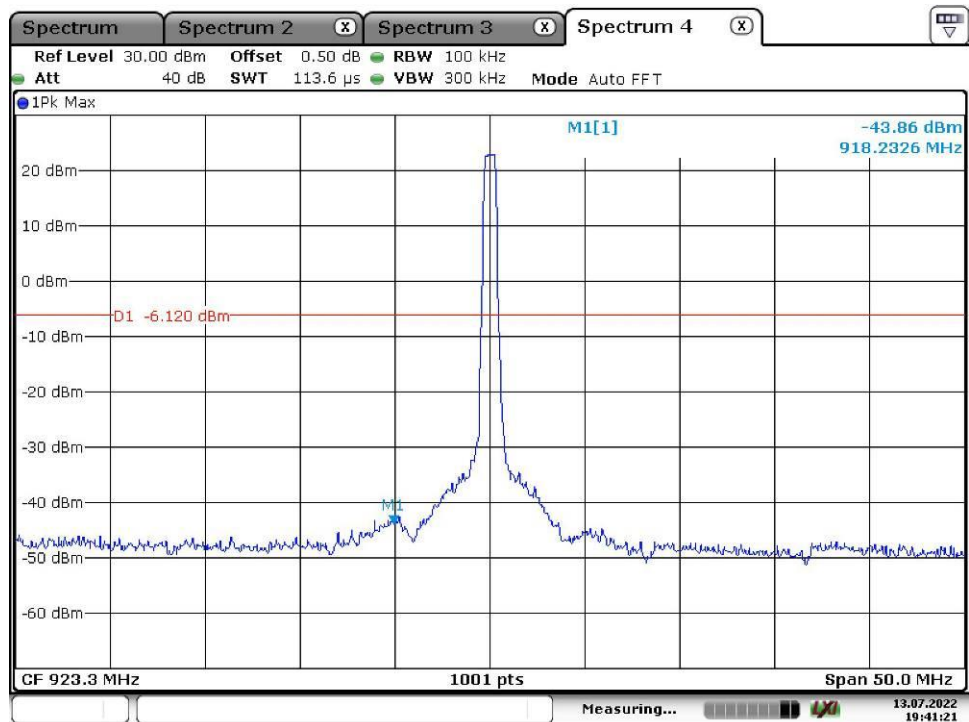


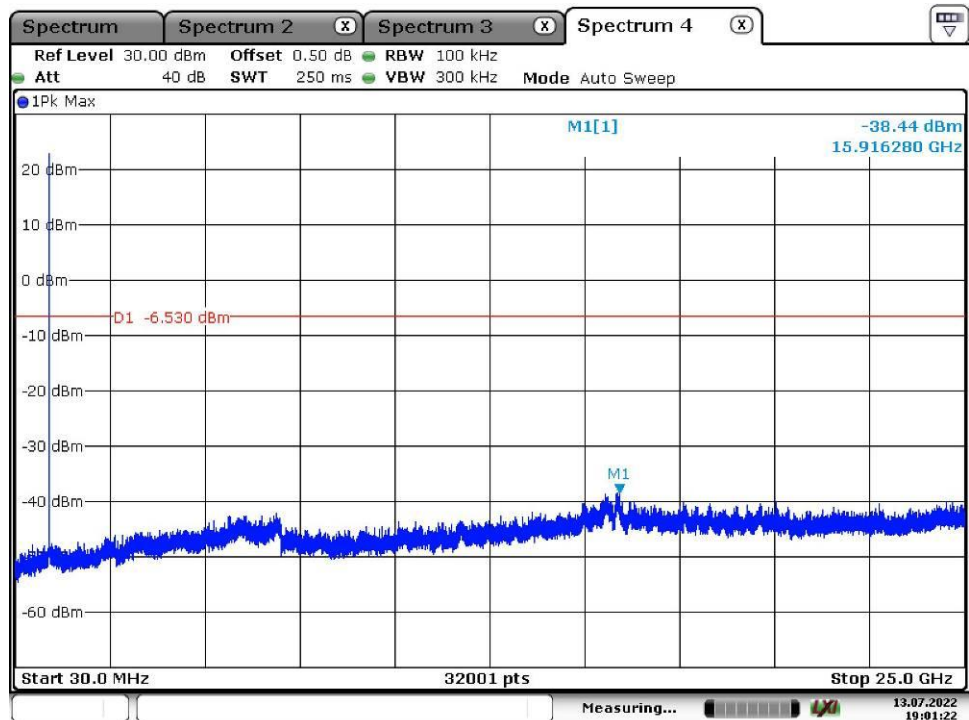
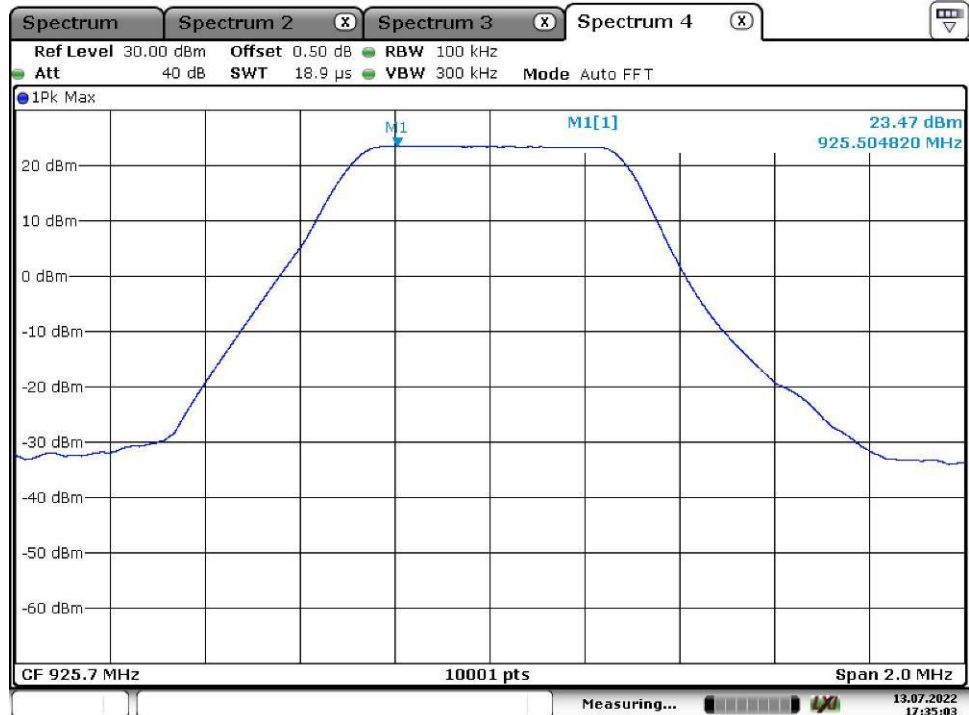


Date: 13.JUL.2022 18:59:46

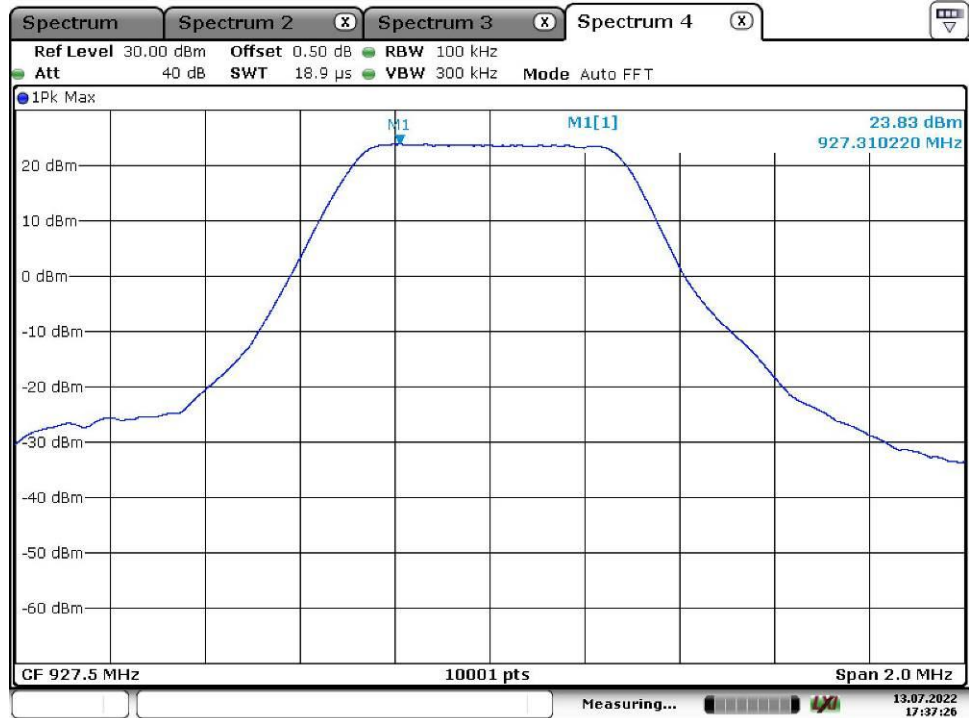


Date: 13.JUL.2022 19:41:21

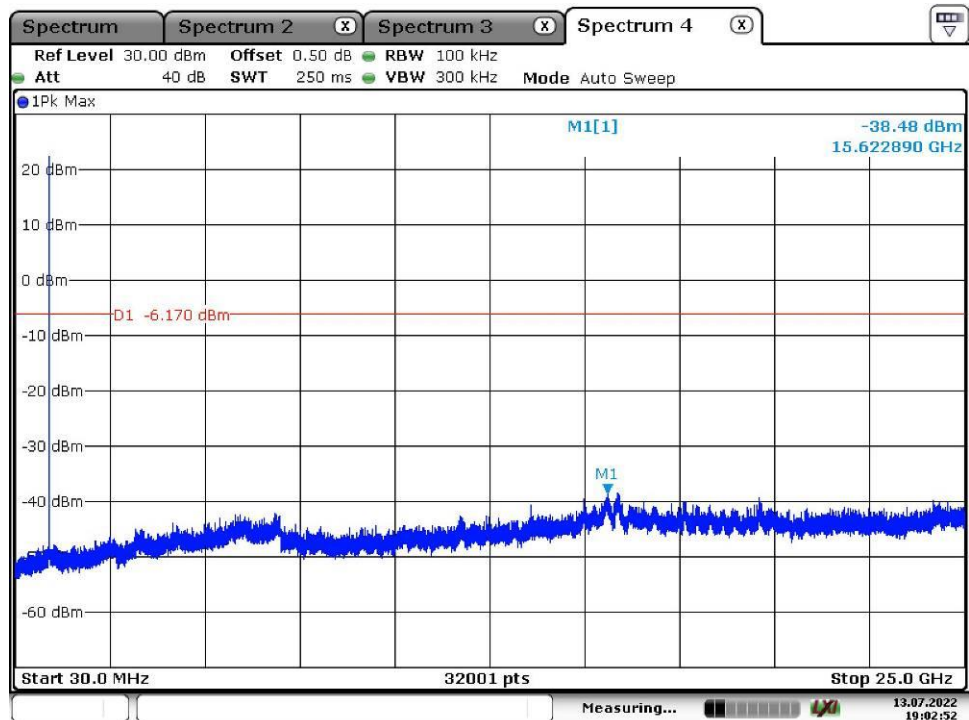
Middle Channel



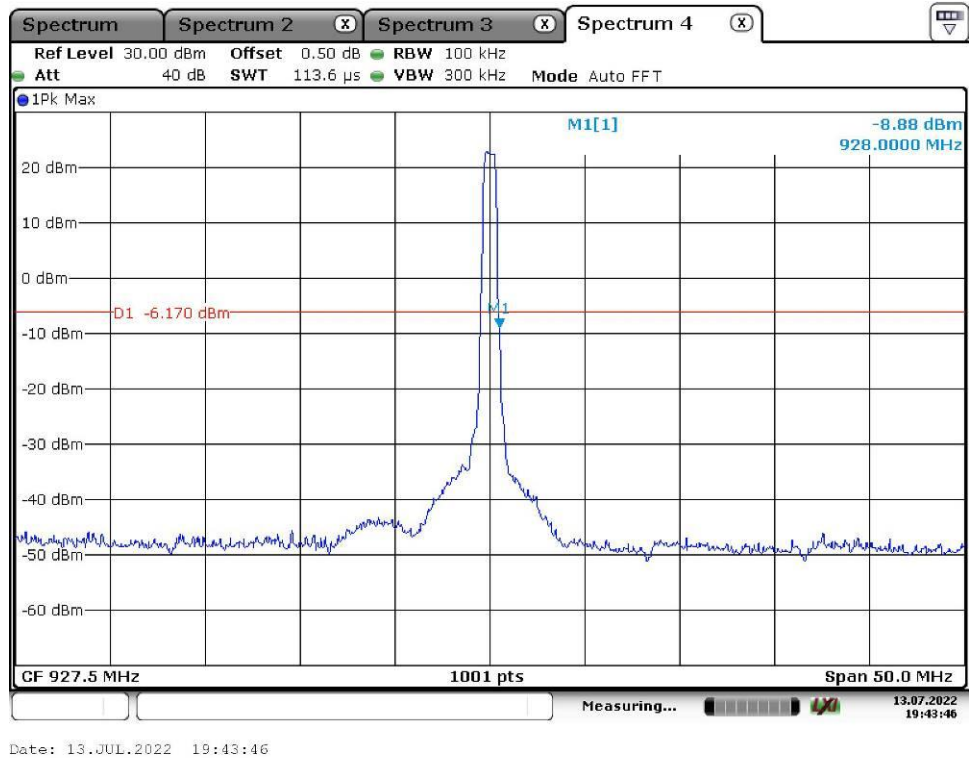
High Channel



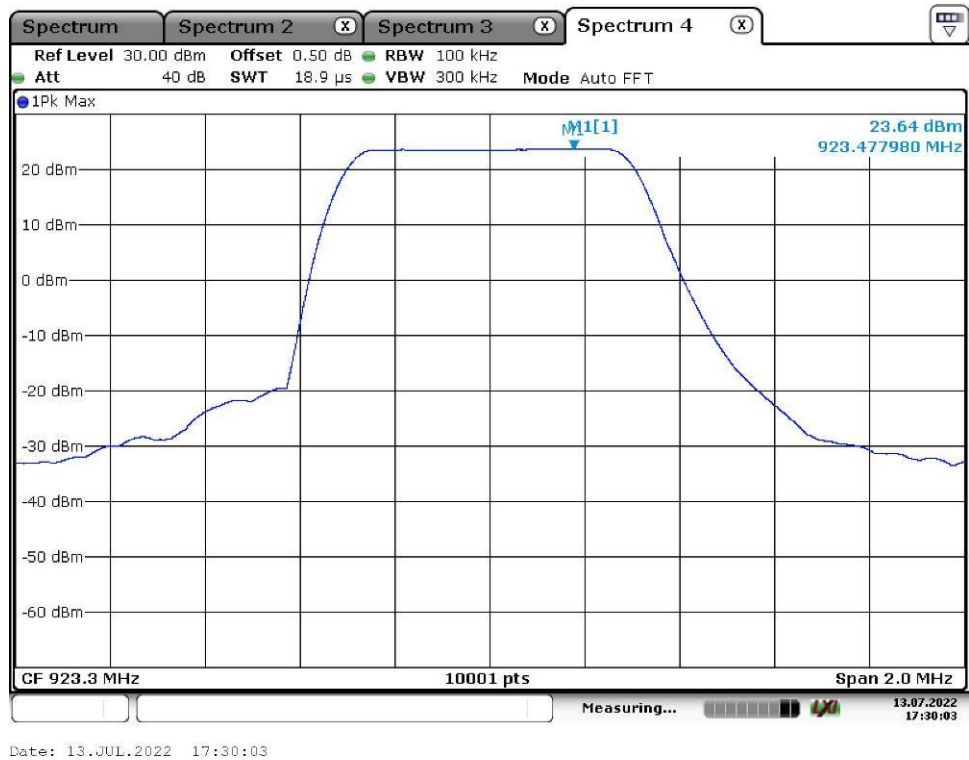
Date: 13.JUL.2022 17:37:26

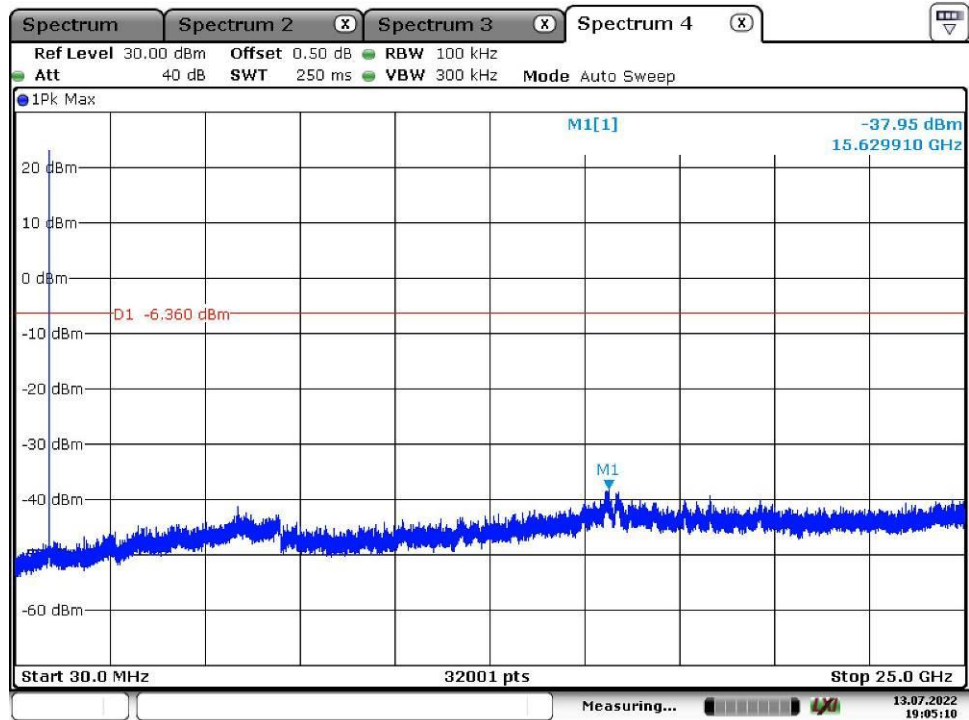


Date: 13.JUL.2022 19:02:52

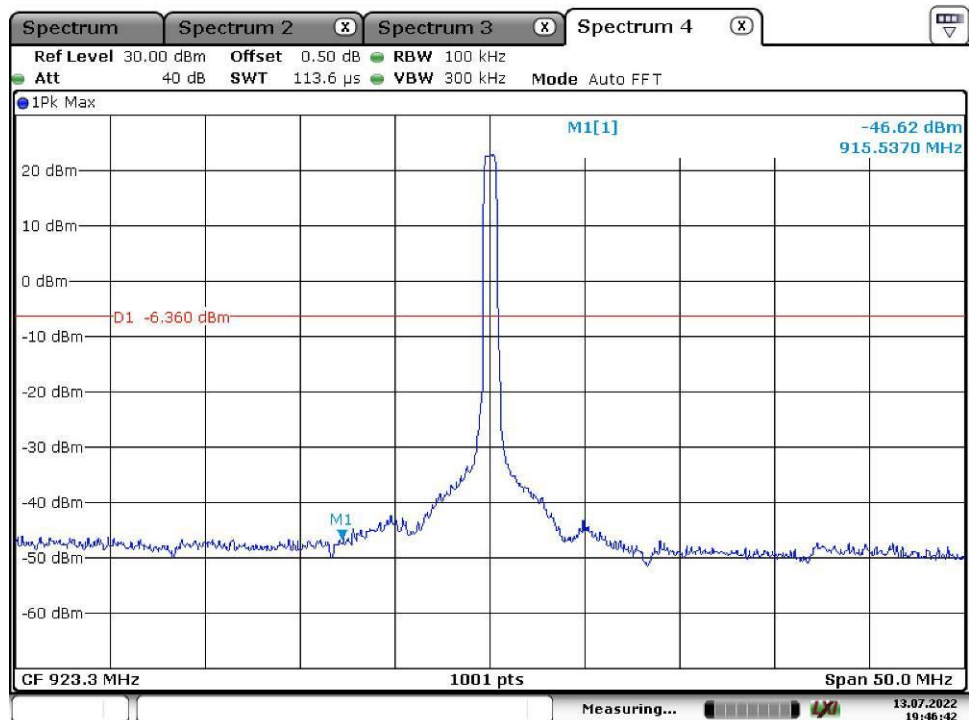


Lora DTS SF12 Low Channel



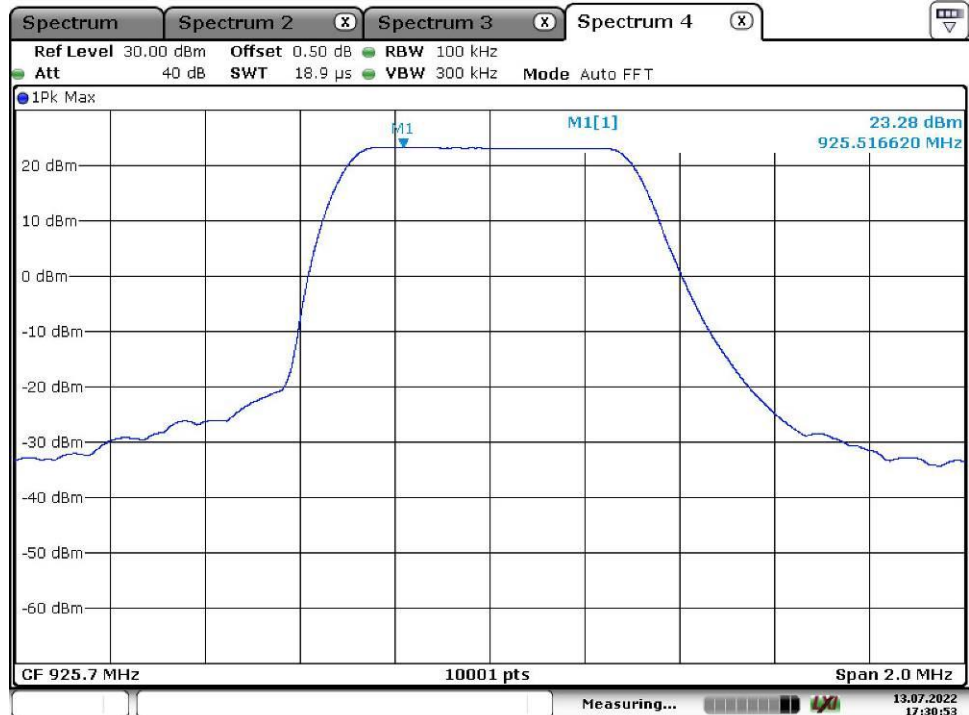


Date: 13.JUL.2022 19:05:10

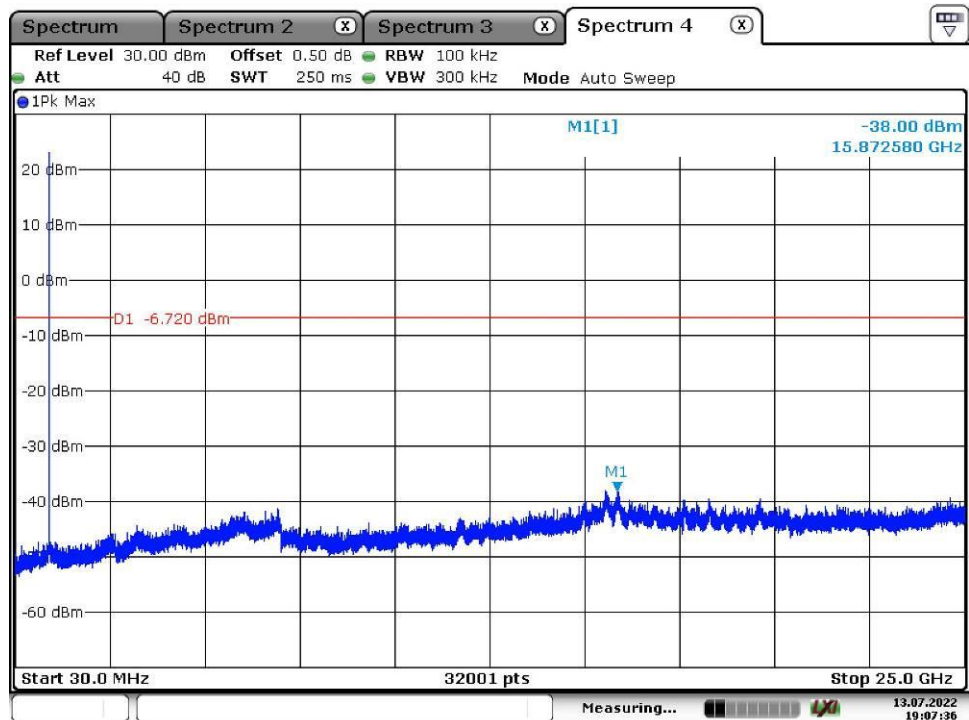


Date: 13.JUL.2022 19:46:42

Middle Channel



Date: 13.JUL.2022 17:30:53

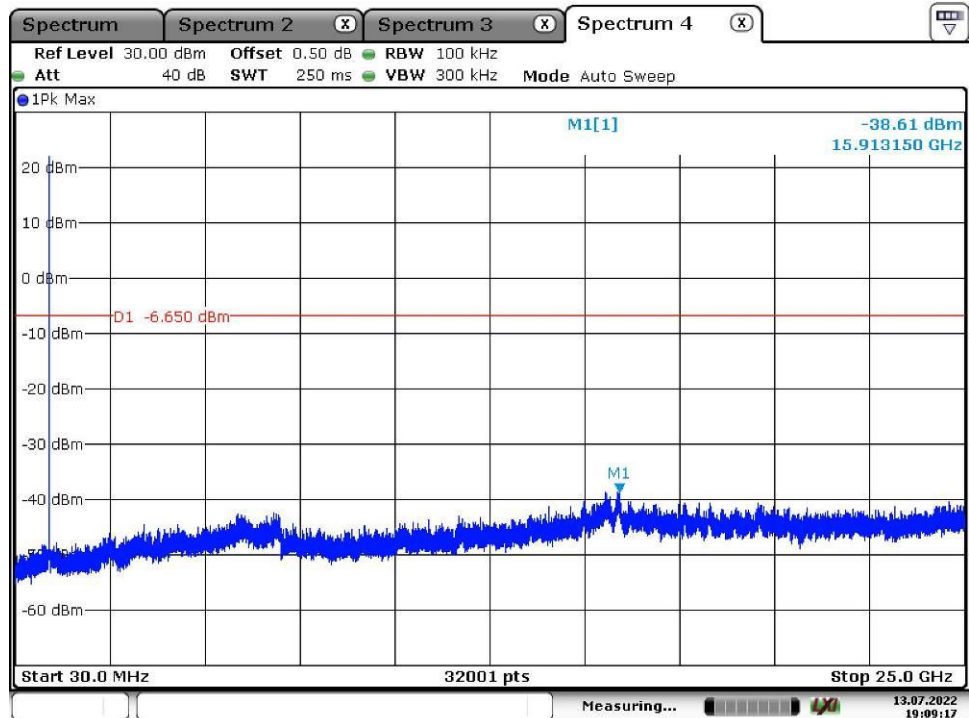


Date: 13.JUL.2022 19:07:36

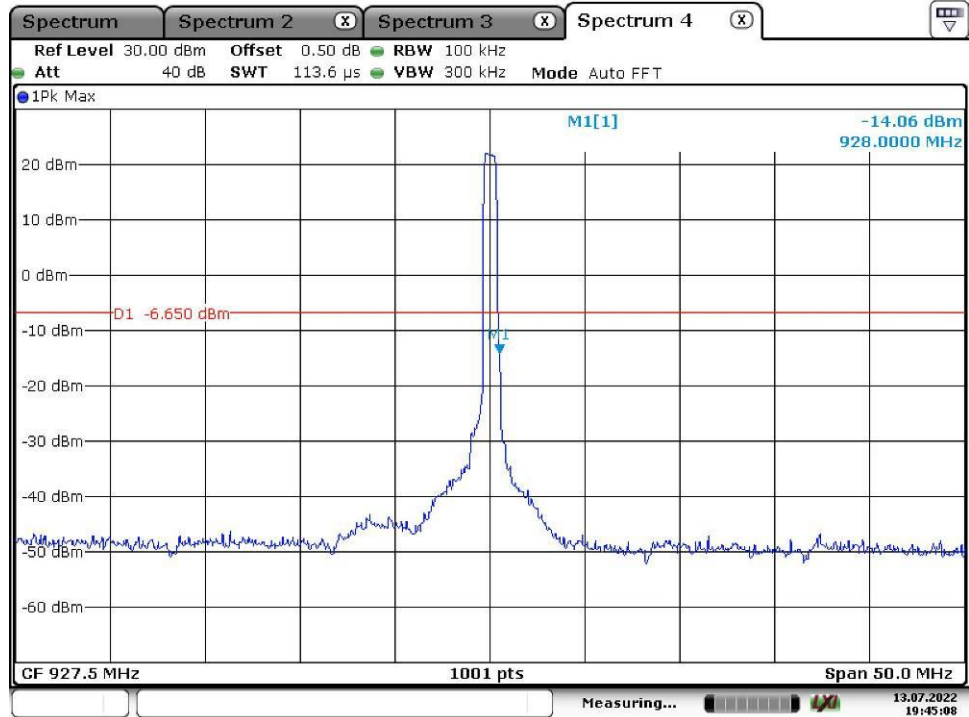
High Channel



Date: 13.JUL.2022 17:38:59



Date: 13.JUL.2022 19:09:17



Date: 13.JUL.2022 19:45:08

Appendix A.5: Carrier Frequency Separation

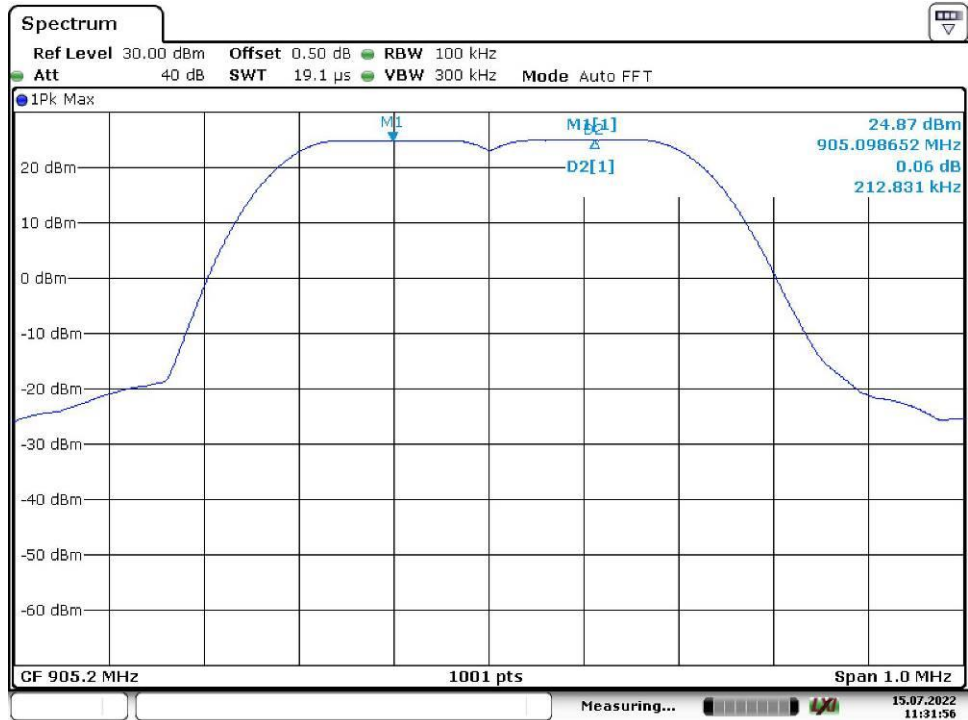
Lora Hybrid SF9 Low Channel



Middle Channel



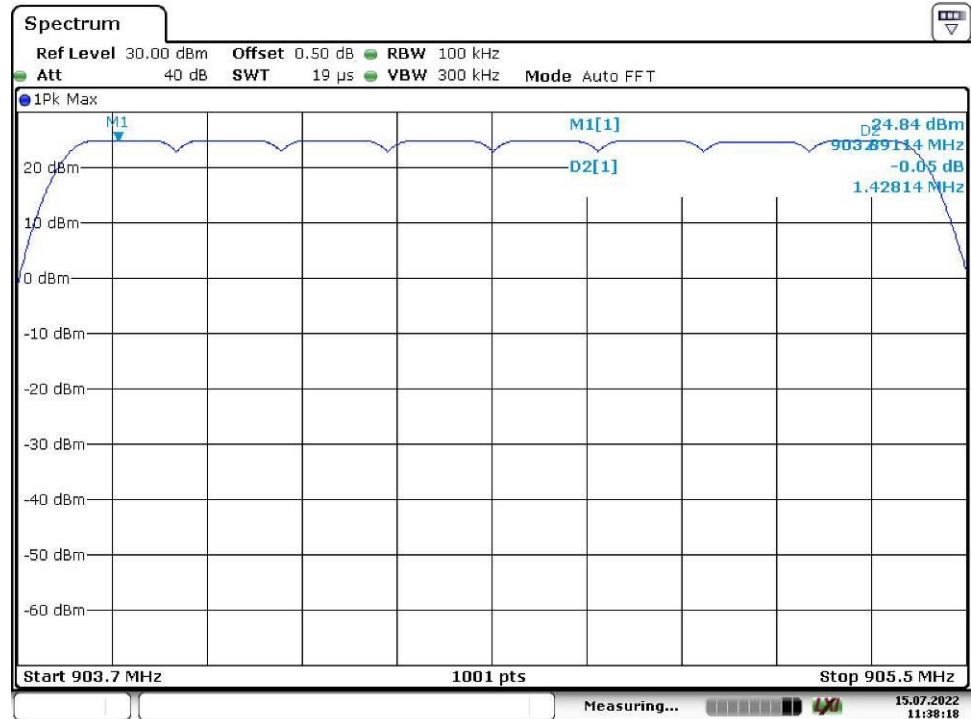
High Channel



Date: 15.JUL.2022 11:31:56

Appendix A.6: Number of Hopping Frequency

Lora Hybrid SF9



Date: 15.JUL.2022 11:38:18

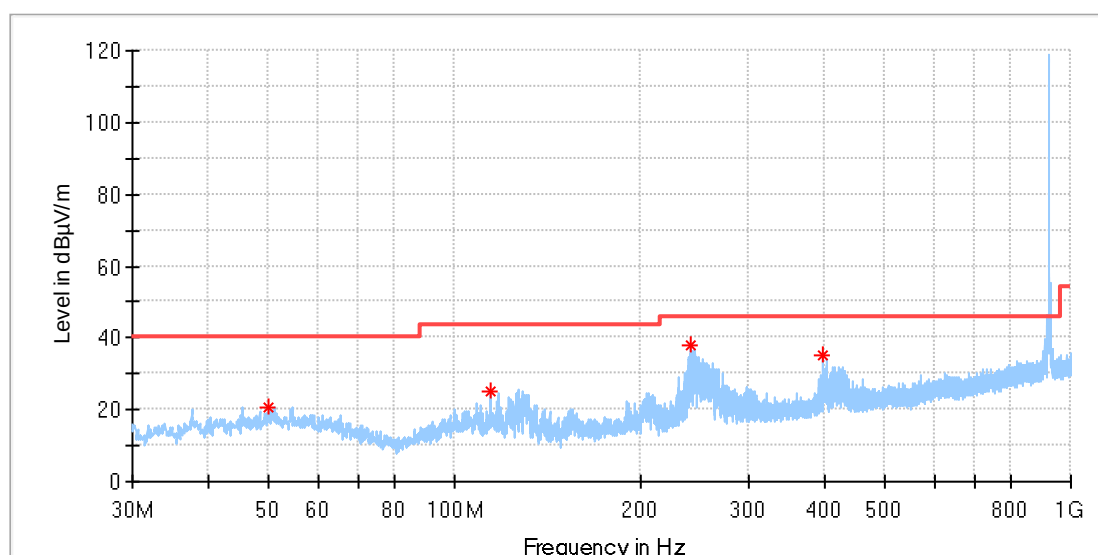
Appendix A.7: Test Results of Radiated Spurious Emissions

Lora DTS SF7

30MHz - 1GHz

EUT Information

EUT Name:	Wirnet™ iZeptoCell
Model:	PDTIOT-IZEC900
Test Mode:	Lora_DTS 500K_SF7_923.3MHz
Order No/Sample No:	168378550/A003283029-002
Test Voltage:	DC 5V From USB
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

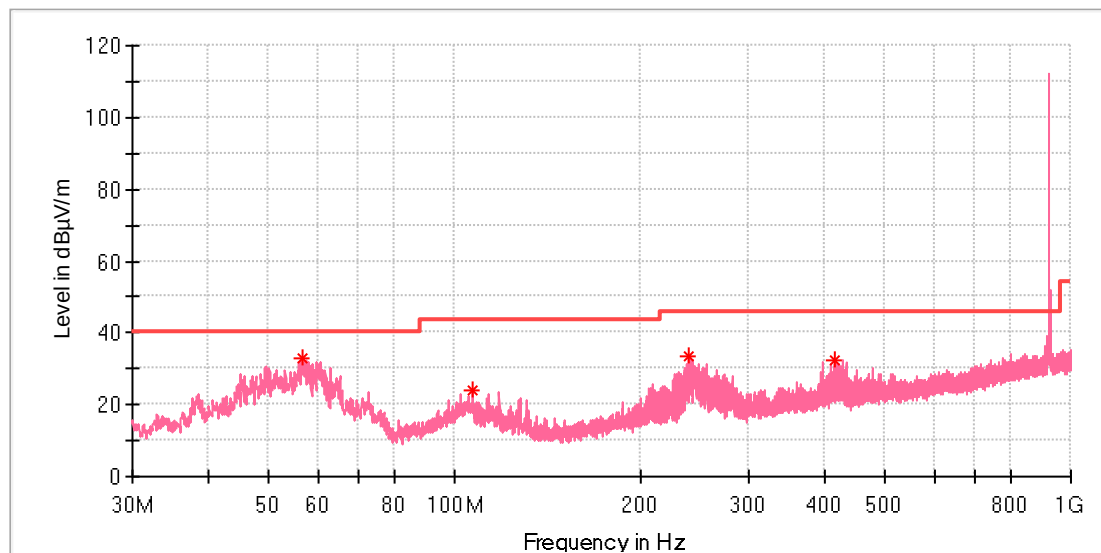
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
50.030500	20.83	40.00	19.17	100.0	H	171.0	-18.3
114.632500	25.11	43.50	18.39	100.0	H	218.0	-19.7
241.072000	37.74	46.00	8.26	100.0	H	359.0	-17.7
395.981000	35.37	46.00	10.63	100.0	H	210.0	-13.7

Final_Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name: Wirnet™ iZeptoCell
Model: PDTIOT-IZEC900
Test Mode: Lora_DTS 500K_SF7_923.3MHz
Order No/Sample No: 168378550/A003283029-002
Test Voltage: DC 5V From USB
Remark: Temp 23 Humi:58%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

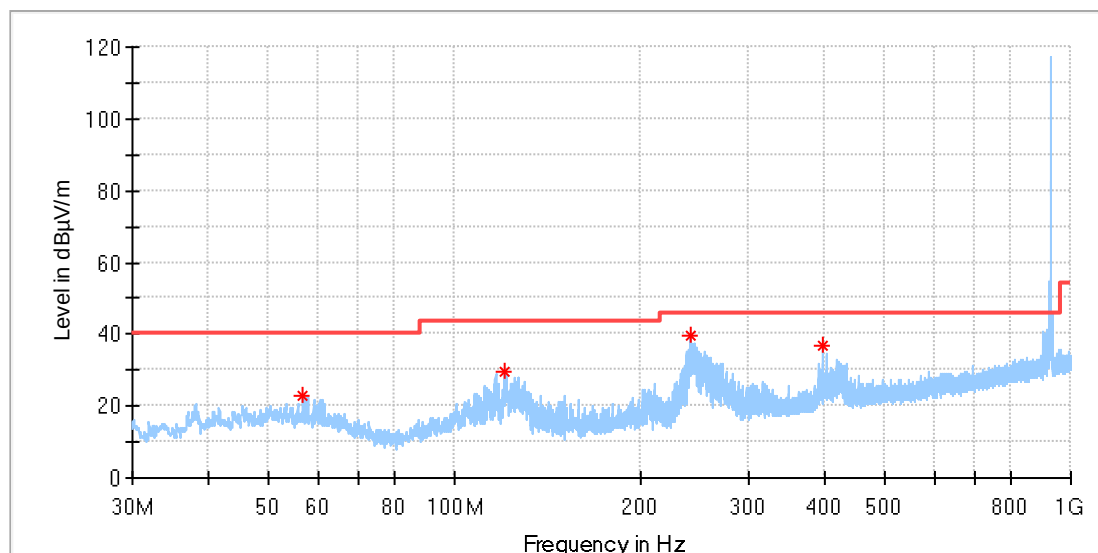
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
56.432500	33.03	40.00	6.97	100.0	V	265.0	-18.6
106.824000	23.86	43.50	19.64	100.0	V	12.0	-18.9
239.132000	33.39	46.00	12.61	100.0	V	257.0	-17.7
413.586500	32.49	46.00	13.51	100.0	V	90.0	-13.5

Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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EUT Information

EUT Name:	Wirnet™ iZeptoCell
Model:	PDTIOT-IZEC900
Test Mode:	Lora_DTS 500K_SF7_925.7MHz
Order No/Sample No:	168378550/A003283029-002
Test Voltage:	DC 5V From USB
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

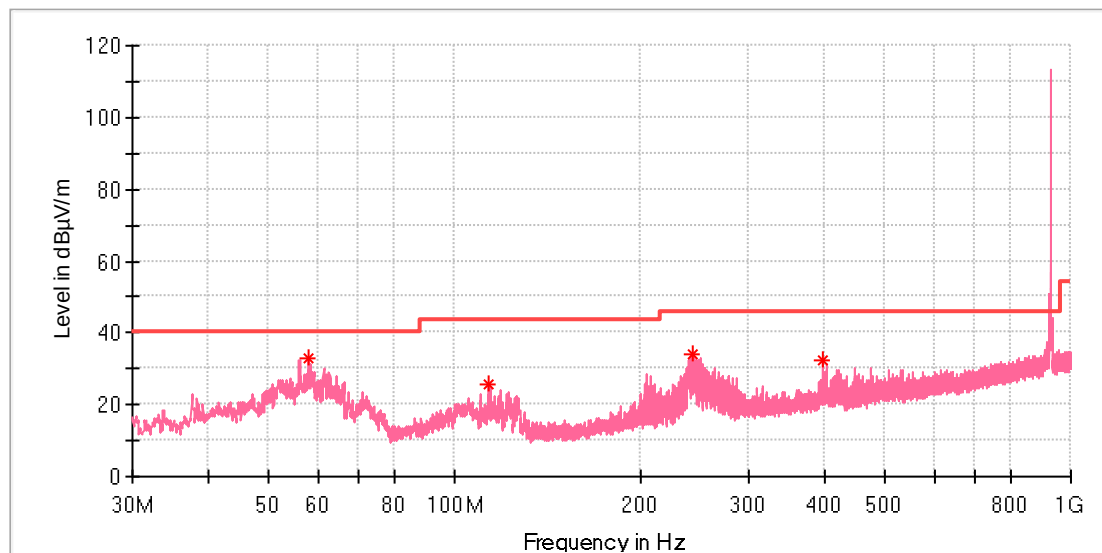
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
56.723500	23.09	40.00	16.91	100.0	H	232.0	-18.6
120.646500	29.36	43.50	14.14	100.0	H	239.0	-20.9
241.702500	39.47	46.00	6.53	100.0	H	232.0	-17.7
395.981000	36.88	46.00	9.12	100.0	H	156.0	-13.7

Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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EUT Information

EUT Name: Wirnet™ iZeptoCell
 Model: PDTIOT-IZEC900
 Test Mode: Lora_DTS 500K_SF7_925.7MHz
 Order No/Sample No: 168378550/A003283029-002
 Test Voltage: DC 5V From USB
 Remark: Temp 23 Humi:58%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



Critical_Freqs

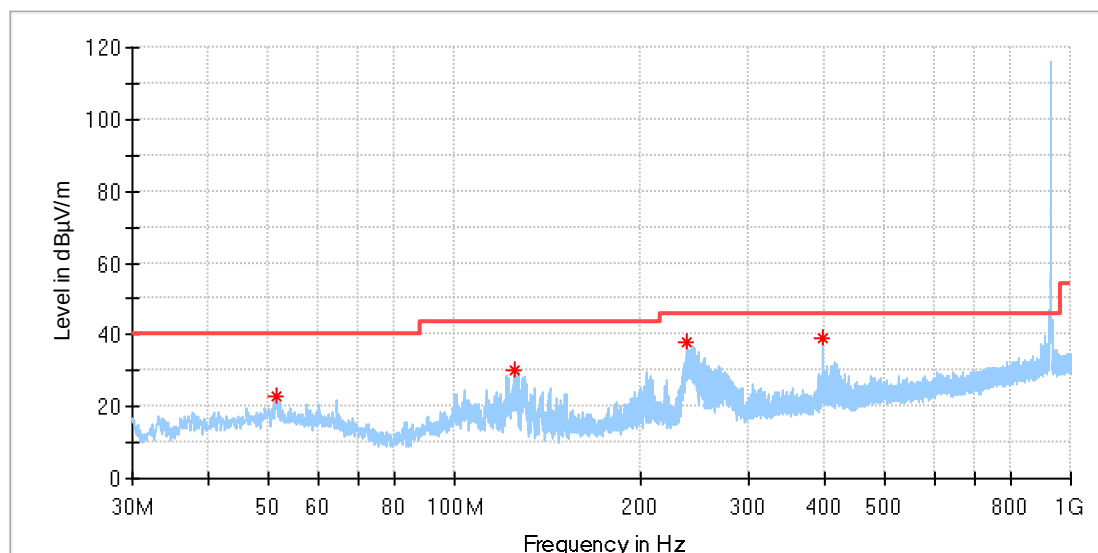
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
57.839000	33.01	40.00	6.99	100.0	V	10.0	-18.7
113.468500	25.46	43.50	18.04	100.0	V	10.0	-19.5
243.933500	33.91	46.00	12.09	100.0	V	16.0	-17.6
396.029500	32.26	46.00	13.74	100.0	V	123.0	-13.7

Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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EUT Information

EUT Name: Wirnet™ iZeptoCell
Model: PDTIOT-IZEC900
Test Mode: Lora_DTS 500K_SF7_927.5MHz
Order No/Sample No: 168378550/A003283029-002
Test Voltage: DC 5V From USB
Remark: Temp 23 Humi:58%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

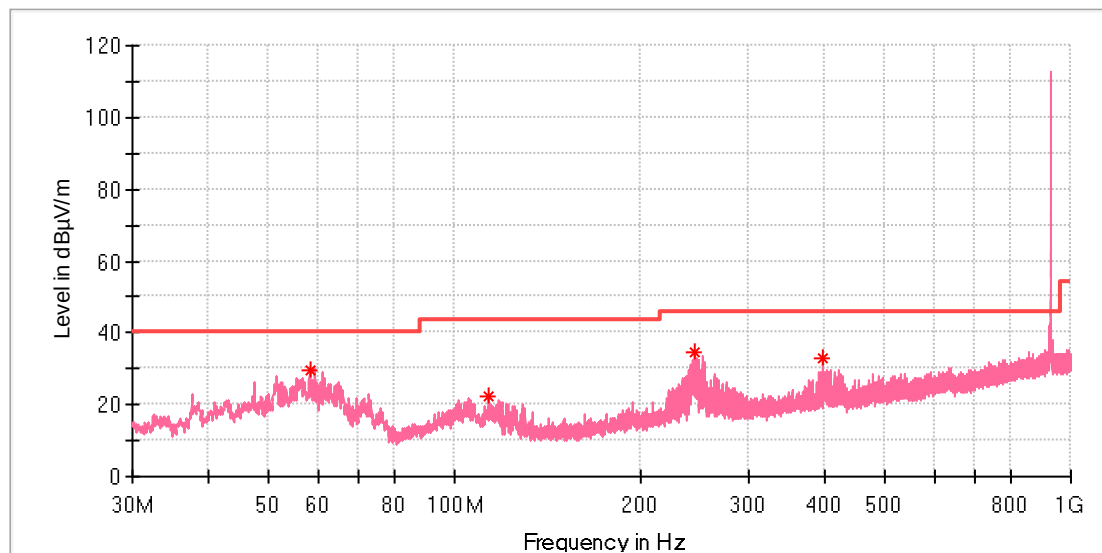
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
51.243000	23.00	40.00	17.00	100.0	H	44.0	-18.3
125.448000	30.38	43.50	13.12	100.0	H	166.0	-21.4
238.695500	37.79	46.00	8.21	100.0	H	166.0	-17.8
395.981000	38.85	46.00	7.15	100.0	H	141.0	-13.7

Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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EUT Information

EUT Name: Wirnet™ iZeptoCell
 Model: PDTIOT-IZEC900
 Test Mode: Lora_DTS 500K_SF7_927.5MHz
 Order No/Sample No: 168378550/A003283029-002
 Test Voltage: DC 5V From USB
 Remark: Temp 23 Humi:58%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
58.227000	29.61	40.00	10.39	100.0	V	77.0	-18.8
113.711000	22.24	43.50	21.26	100.0	V	0.0	-19.6
245.243000	34.36	46.00	11.64	100.0	V	334.0	-17.6
395.981000	33.06	46.00	12.94	100.0	V	210.0	-13.7

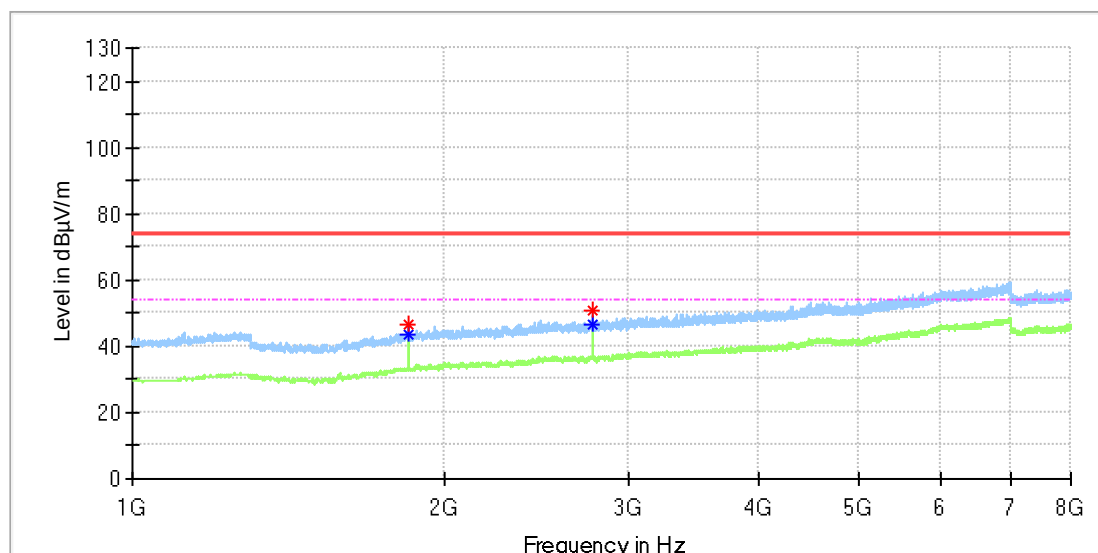
Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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1GHz - 10GHz

EUT Information

EUT Name: Wirnet™ iZeptoCell
 Model: PDTIOT-IZEC900
 Test Mode: Lora_DTS 500K_SF7_923.3MHz
 Order No/Sample No: 168378550/A003283029-002
 Test Voltage: DC 5V From USB
 Remark: Temp 23 Humi:58%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



Critical_Freqs

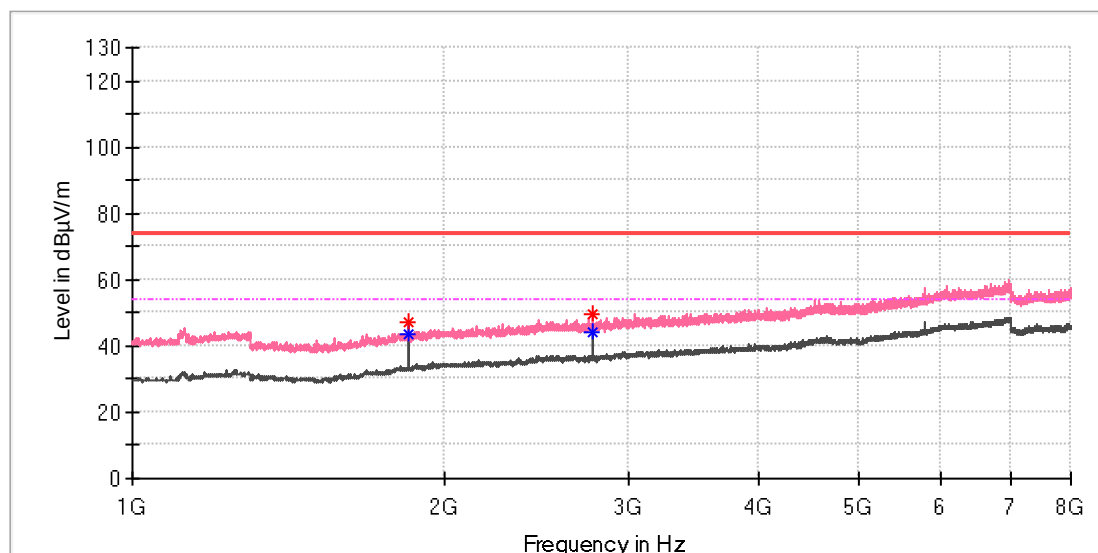
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1846.050000	46.67	---	74.00	27.33	100.0	H	175.0	5.0
1846.050000	---	43.23	54.00	10.77	100.0	H	175.0	5.0
2769.812500	50.53	---	74.00	23.47	100.0	H	9.0	7.9
2769.812500	---	46.61	54.00	7.39	100.0	H	9.0	7.9

Final_Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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EUT Information

EUT Name: Wirnet™ iZeptoCell
 Model: PDTIOT-IZEC900
 Test Mode: Lora_DTS 500K_SF7_923.3MHz
 Order No/Sample No: 168378550/A003283029-002
 Test Voltage: DC 5V From USB
 Remark: Temp 23 Humi:58%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



Critical_Freqs

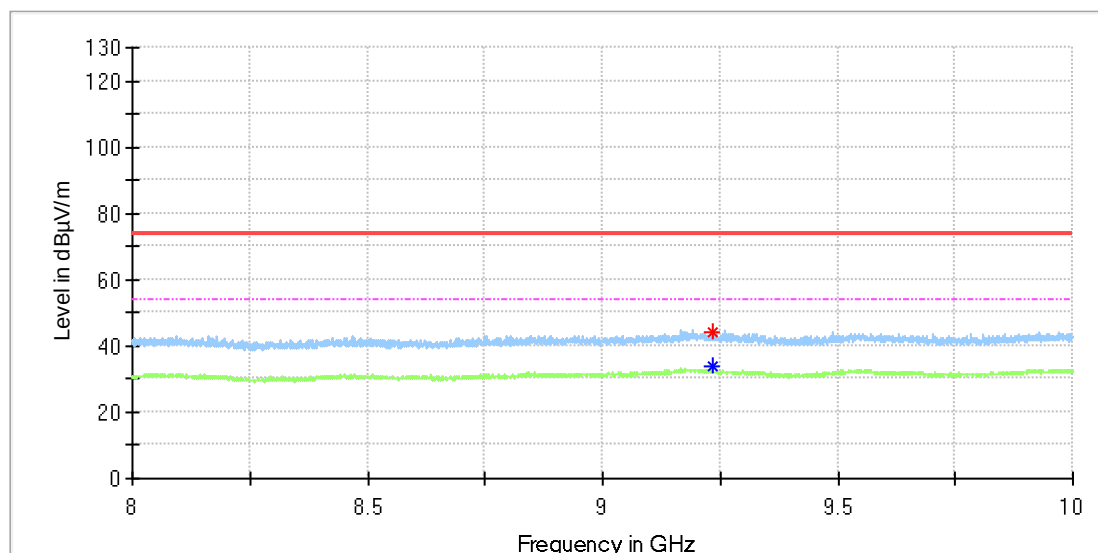
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1846.050000	47.24	---	74.00	26.76	100.0	V	170.0	5.0
1846.050000	---	43.42	54.00	10.58	100.0	V	170.0	5.0
2769.812500	49.75	---	74.00	24.25	100.0	V	39.0	7.9
2769.812500	---	44.22	54.00	9.78	100.0	V	39.0	7.9

Final_Result

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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EUT Information

EUT Name: Wirnet™ iZeptoCell
Model: PDTIOT-IZEC900
Test Mode: Lora_DTS 500K_SF7_923.3MHz
Order No/Sample No: 168378550/A003283029-002
Test Voltage: DC 5V From USB
Remark: Temp 23 Humi:58%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

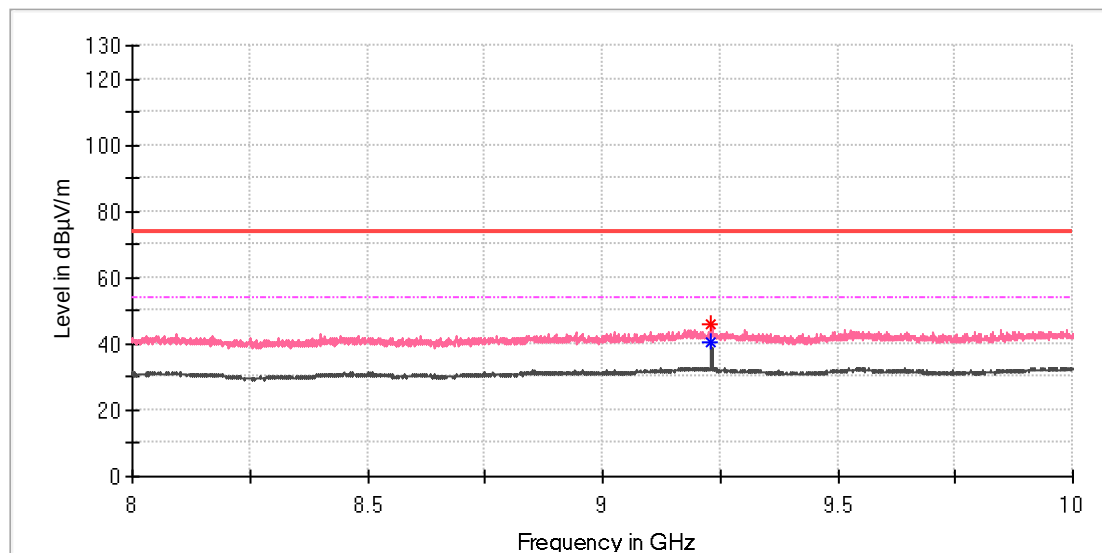
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
9233.000000	---	33.91	54.00	20.09	100.0	H	251.0	10.4
9235.500000	44.21	---	74.00	29.79	100.0	H	251.0	10.4

Final_Result

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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EUT Information

EUT Name: Wirnet™ iZeptoCell
Model: PDTIOT-IZEC900
Test Mode: Lora_DTS 500K_SF7_923.3MHz
Order No/Sample No: 168378550/A003283029-002
Test Voltage: DC 5V From USB
Remark: Temp 23 Humi:58%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

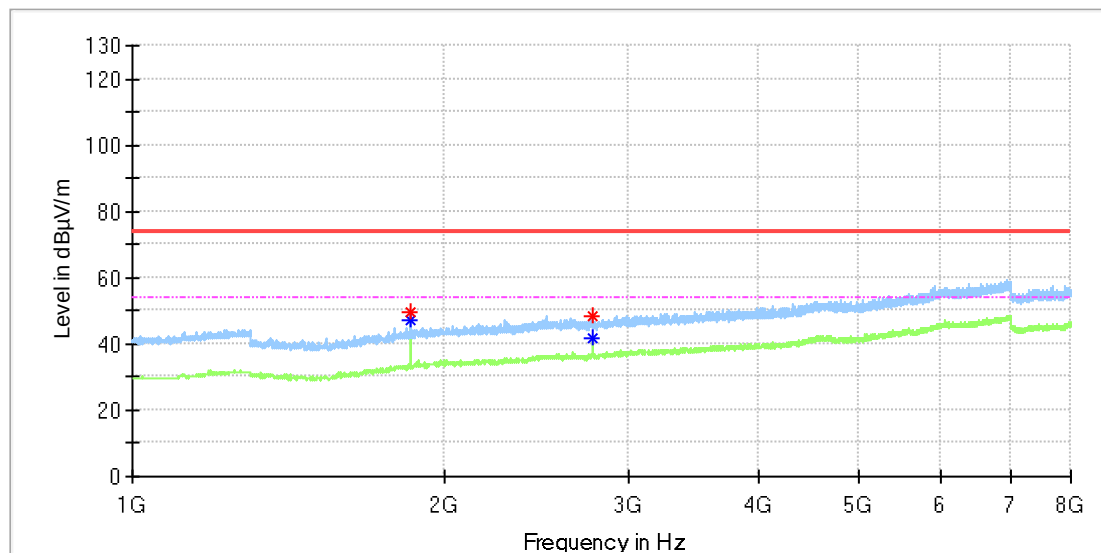
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
9231.500000	46.23	---	74.00	27.77	100.0	V	328.0	10.4
9231.500000	---	40.26	54.00	13.74	100.0	V	328.0	10.4

Final_Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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EUT Information

EUT Name: Wirnet™ iZeptoCell
 Model: PDTIOT-IZEC900
 Test Mode: Lora_DTS 500K_SF7_925.7MHz
 Order No/Sample No: 168378550/A003283029-002
 Test Voltage: DC 5V From USB
 Remark: Temp 23 Humi:58%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



Critical_Freqs

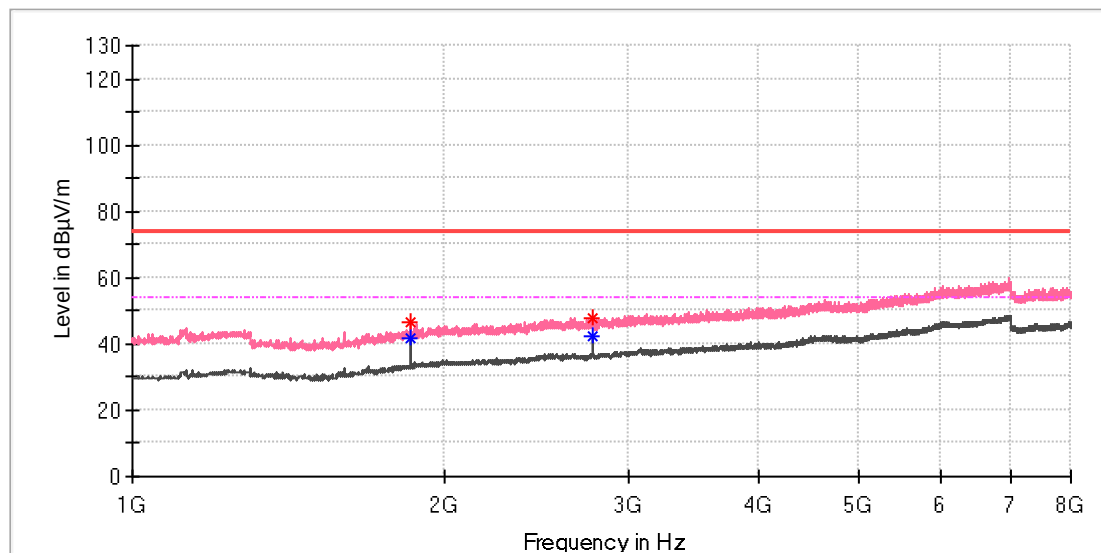
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1851.075000	49.84	---	74.00	24.16	100.0	H	9.0	5.0
1851.075000	---	46.95	54.00	7.05	100.0	H	9.0	5.0
2776.512500	---	41.79	54.00	12.21	100.0	H	328.0	7.9
2776.512500	48.33	---	74.00	25.67	100.0	H	328.0	7.9

Final_Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name: Wirnet™ iZeptoCell
Model: PDTIOT-IZEC900
Test Mode: Lora_DTS 500K_SF7_925.7MHz
Order No/Sample No: 168378550/A003283029-002
Test Voltage: DC 5V From USB
Remark: Temp 23 Humi:58%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

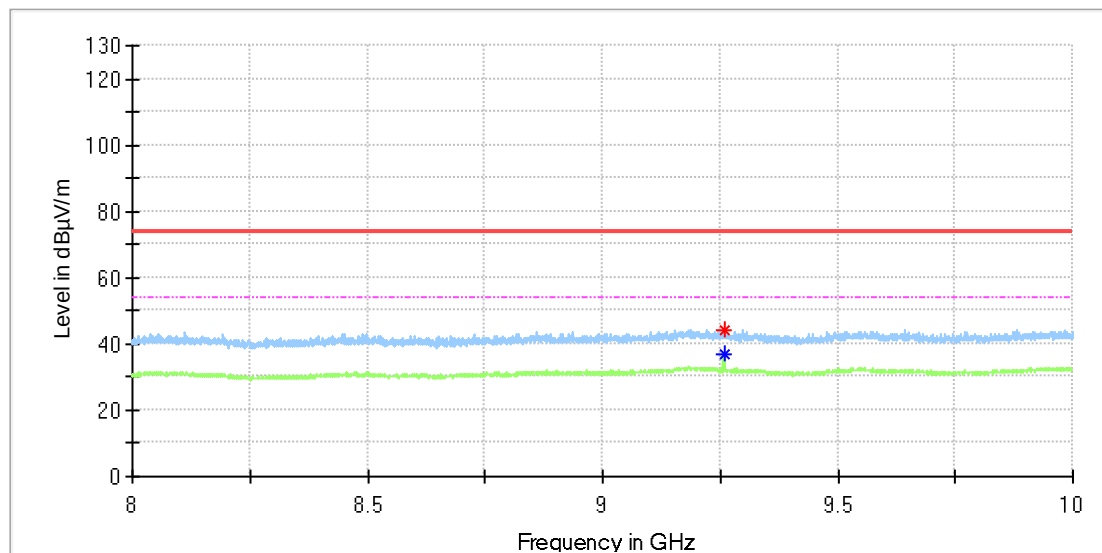
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1851.075000	46.59	---	74.00	27.41	100.0	V	161.0	5.0
1851.075000	---	41.45	54.00	12.55	100.0	V	161.0	5.0
2776.512500	---	42.12	54.00	11.88	100.0	V	144.0	7.9
2776.512500	47.99	---	74.00	26.01	100.0	V	144.0	7.9

Final_Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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EUT Information

EUT Name: Wirnet™ iZeptoCell
 Model: PDTIOT-IZEC900
 Test Mode: Lora_DTS 500K_SF7_925.7MHz
 Order No/Sample No: 168378550/A003283029-002
 Test Voltage: DC 5V From USB
 Remark: Temp 23 Humi:58%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



Critical_Freqs

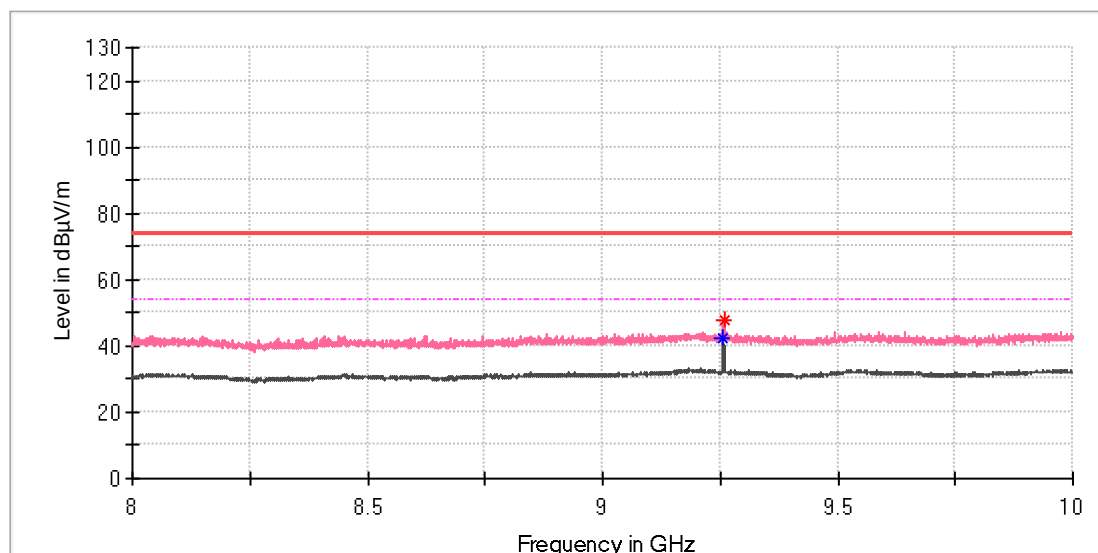
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
9257.500000	---	37.00	54.00	17.00	100.0	H	149.0	10.4
9259.000000	44.23	---	74.00	29.77	100.0	H	149.0	10.4

Final_Result

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name: Wirnet™ iZeptoCell
Model: PDTIOT-IZEC900
Test Mode: Lora_DTS 500K_SF7_925.7MHz
Order No/Sample No: 168378550/A003283029-002
Test Voltage: DC 5V From USB
Remark: Temp 23 Humi:58%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

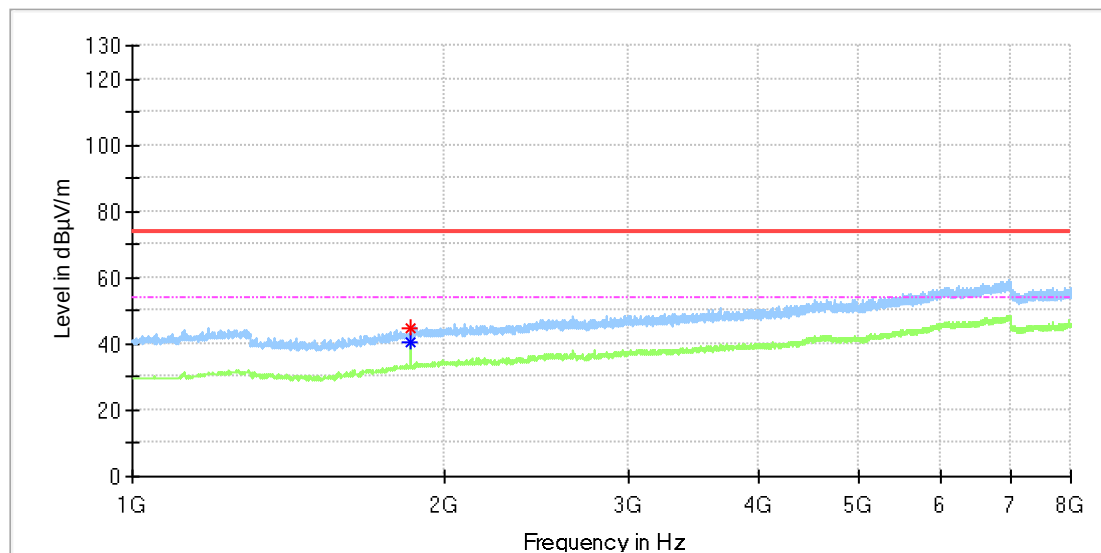
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
9255.500000	---	42.08	54.00	11.92	100.0	V	252.0	10.4
9259.500000	47.76	---	74.00	26.24	100.0	V	252.0	10.4

Final_Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name: Wirnet™ iZeptoCell
Model: PDTIOT-IZEC900
Test Mode: Lora_DTS 500K_SF7_927.5MHz
Order No/Sample No: 168378550/A003283029-002
Test Voltage: DC 5V From USB
Remark: Temp 23 Humi:58%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

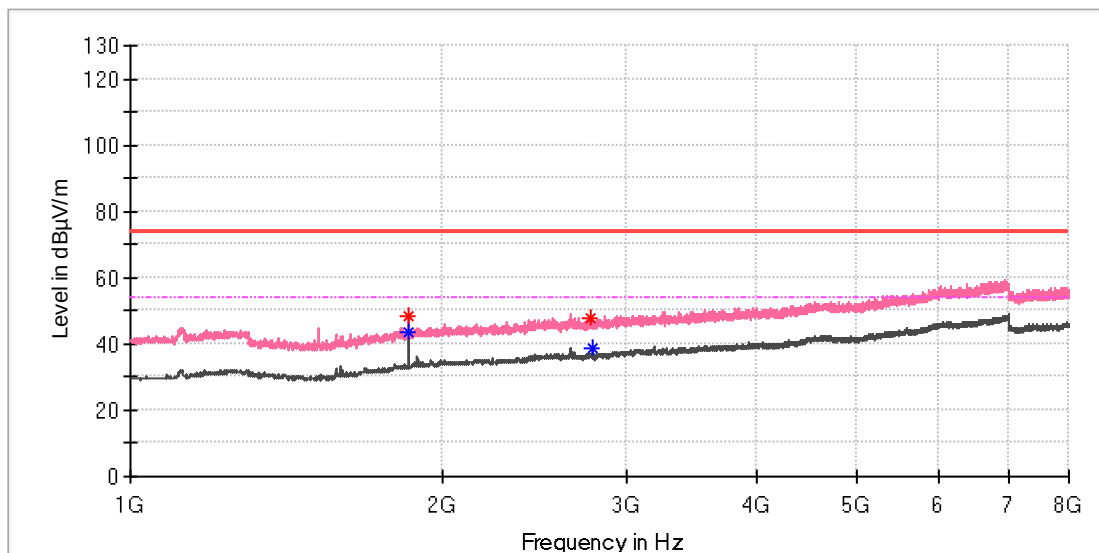
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1854.425000	44.98	---	74.00	29.02	100.0	H	219.0	5.0
1854.425000	---	40.80	54.00	13.20	100.0	H	219.0	5.0

Final_Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name: Wirnet™ iZeptoCell
Model: PDTIOT-IZEC900
Test Mode: Lora_DTS 500K_SF7_927.5MHz
Order No/Sample No: 168378550/A003283029-002
Test Voltage: DC 5V From USB
Remark: Temp 23 Humi:58%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

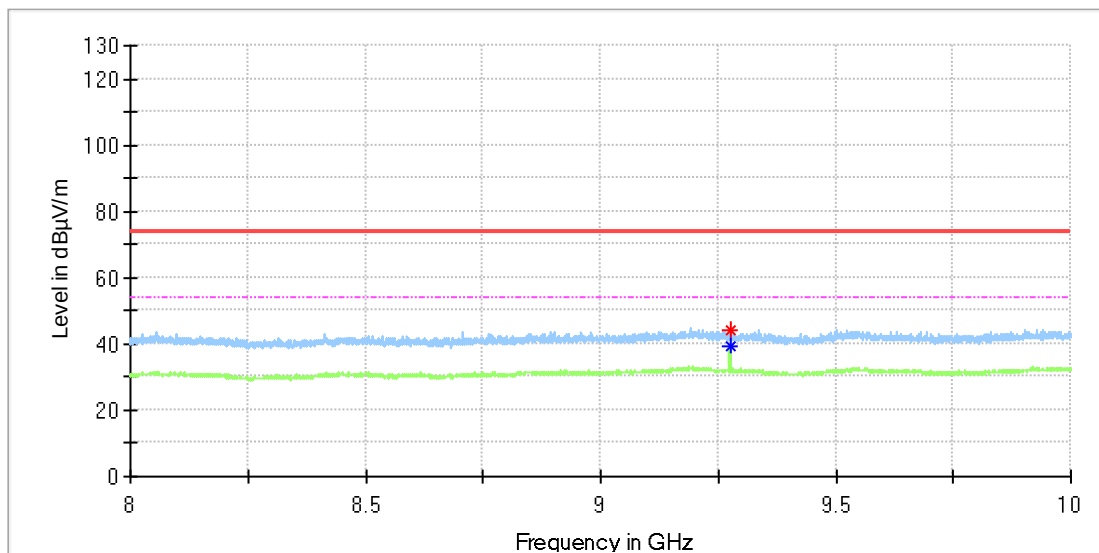
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1854.425000	48.25	---	74.00	25.75	100.0	V	183.0	5.0
1854.425000	---	43.51	54.00	10.49	100.0	V	183.0	5.0
2774.837500	47.96	---	74.00	26.04	100.0	V	21.0	7.9
2782.375000	---	38.75	54.00	15.25	100.0	V	218.0	7.9

Final_Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name: Wirnet™ iZeptoCell
Model: PDTIOT-IZEC900
Test Mode: Lora_DTS 500K_SF7_927.5MHz
Order No/Sample No: 168378550/A003283029-002
Test Voltage: DC 5V From USB
Remark: Temp 23 Humi:58%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

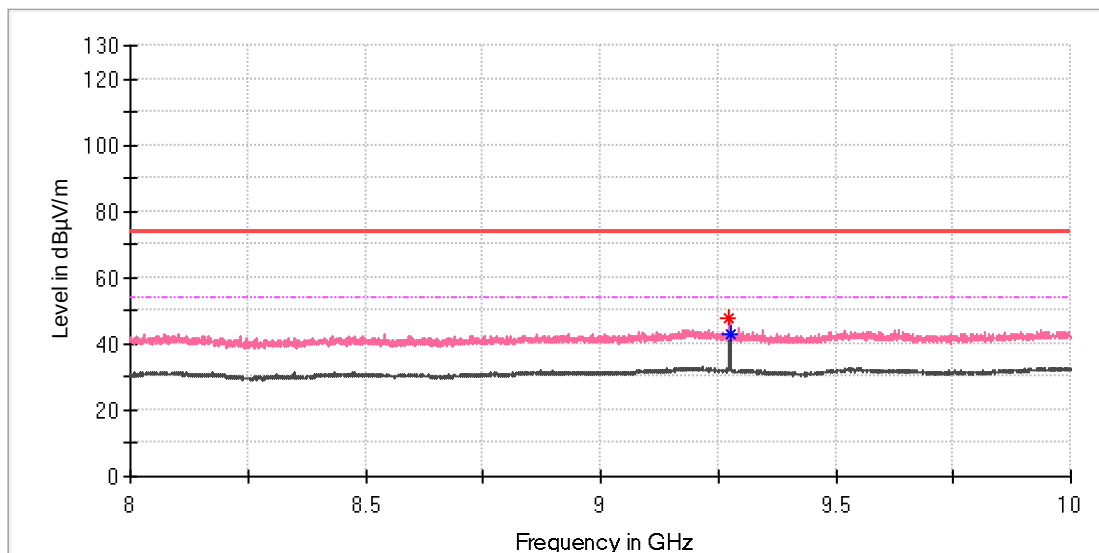
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
9275.500000	44.30	---	74.00	29.70	100.0	H	162.0	10.2
9275.500000	---	39.23	54.00	14.77	100.0	H	162.0	10.2

Final_Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name: Wirnet™ iZeptoCell
Model: PDTIOT-IZEC900
Test Mode: Lora_DTS 500K_SF7_927.5MHz
Order No/Sample No: 168378550/A003283029-002
Test Voltage: DC 5V From USB
Remark: Temp 23 Humi:58%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
9273.500000	47.70	---	74.00	26.30	100.0	V	103.0	10.2
9275.500000	---	42.65	54.00	11.35	100.0	V	103.0	10.2

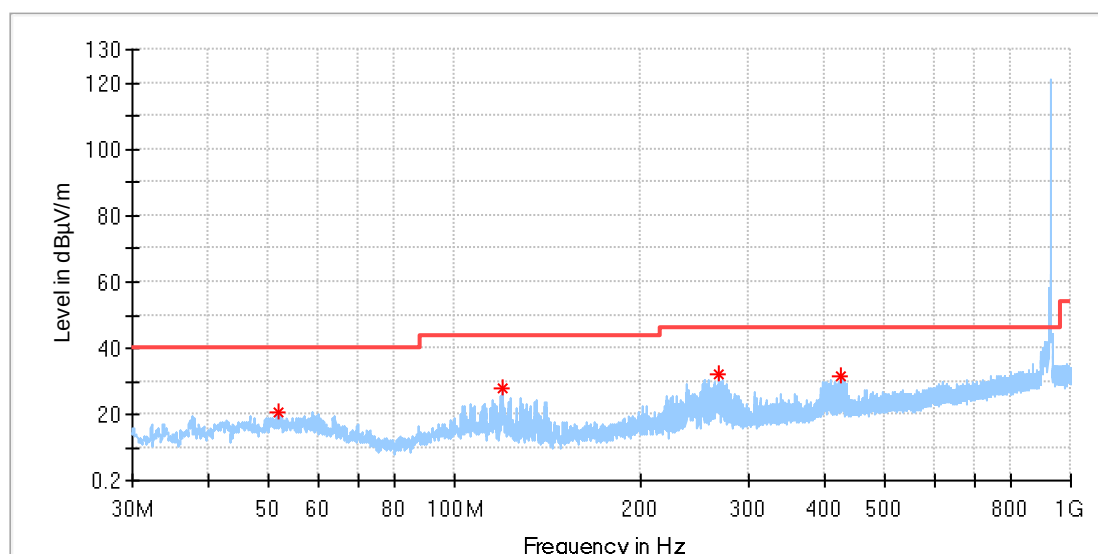
Final_Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

Lora DTS SF12 30MHz - 1GHz

EUT Information

EUT Name:	Wirnet™ iZeptoCell
Model:	PDTIOT-IZEC900
Test Mode:	Lora_DTS 500K_SF12_925.7MHz
Order No/Sample No:	168378550/A003283029-002
Test Voltage:	DC 5V From USB
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

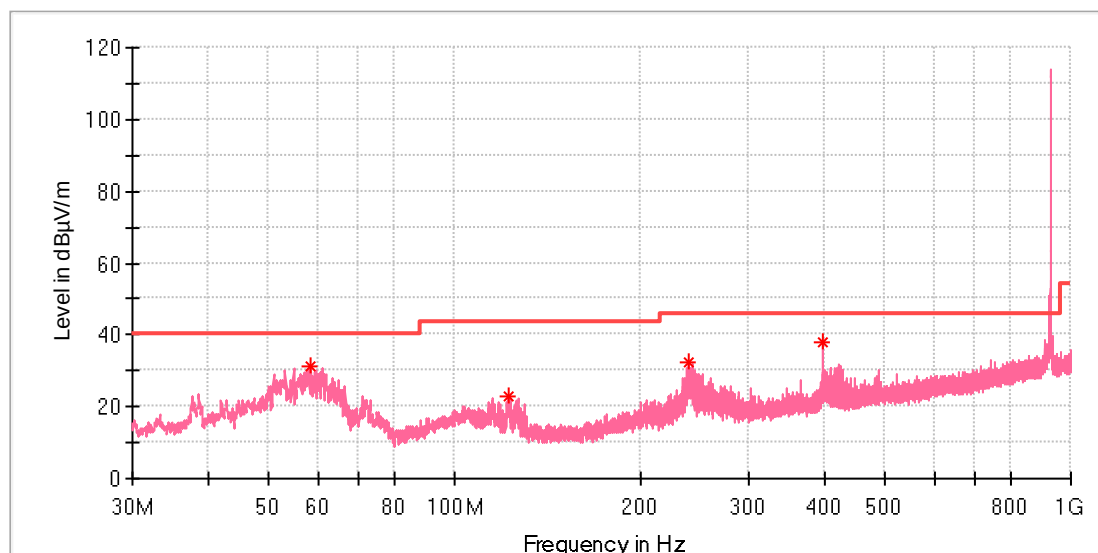
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
51.728000	20.75	40.00	19.25	100.0	H	280.0	-18.4
119.967500	27.68	43.50	15.82	100.0	H	225.0	-20.8
268.474500	31.98	46.00	14.02	100.0	H	26.0	-17.0
424.741500	31.57	46.00	14.43	100.0	H	0.0	-13.4

Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name: Wirnet™ iZeptoCell
 Model: PDTIOT-IZEC900
 Test Mode: Lora_DTS 500K_SF12_925.7MHz
 Order No/Sample No: 168378550/A003283029-002
 Test Voltage: DC 5V From USB
 Remark: Temp 23 Humi:58%
 Test Standard: FCC 15.247
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



Critical_Freqs

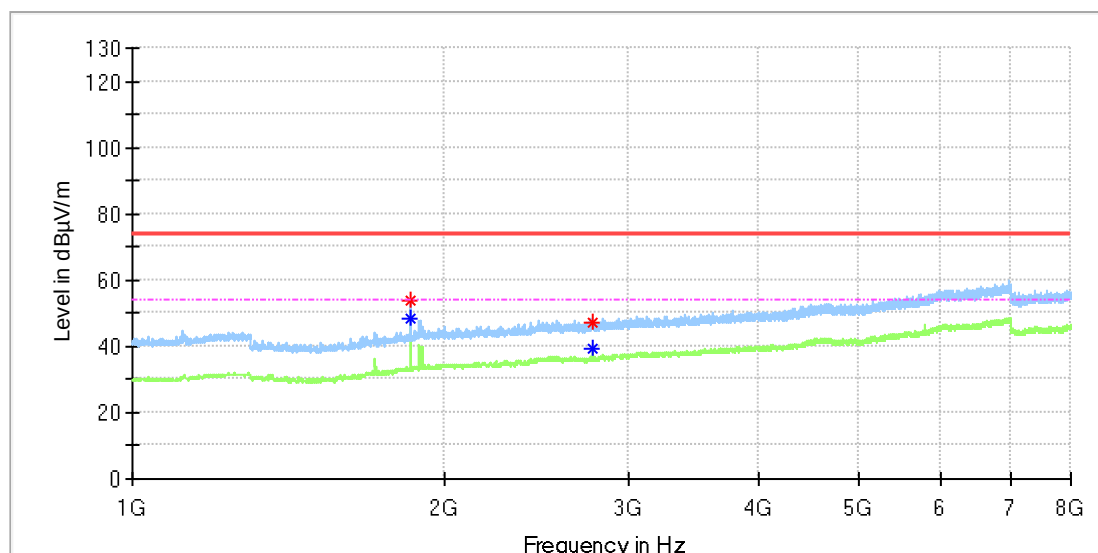
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
58.518000	31.31	40.00	8.69	100.0	V	144.0	-18.8
122.295500	22.82	43.50	20.68	100.0	V	193.0	-21.0
240.102000	32.40	46.00	13.60	100.0	V	357.0	-17.7
395.981000	38.00	46.00	8.00	100.0	V	225.0	-13.7

Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---	---	---

1GHz - 10GHz**EUT Information**

EUT Name:	Wirnet™ iZeptoCell
Model:	PDTIOT-IZEC900
Test Mode:	Lora_DTS 500K_SF12_925.7MHz
Order No/Sample No:	168378550/A003283029-002
Test Voltage:	DC 5V From USB
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

**Critical Freqs**

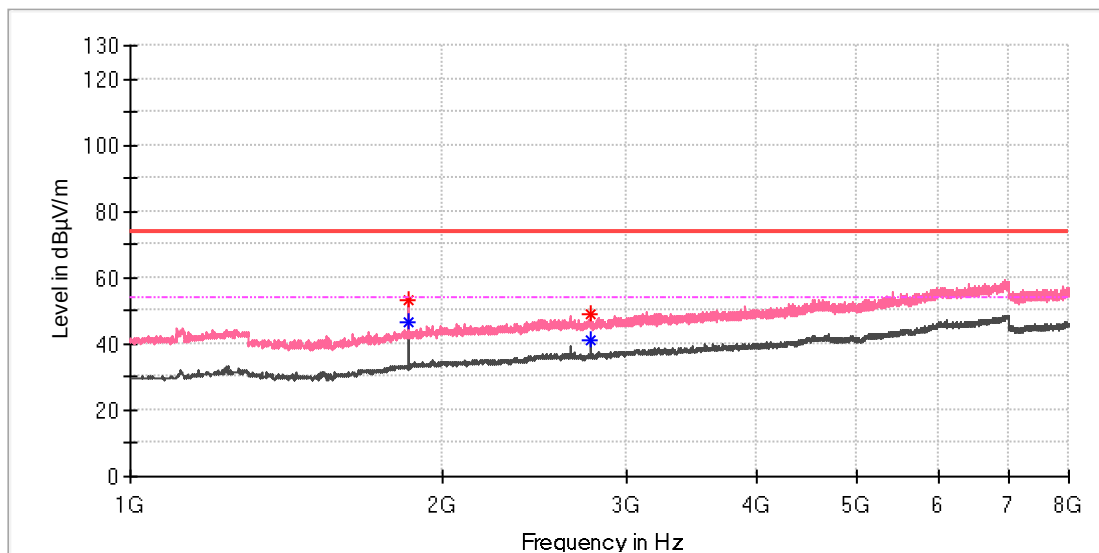
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1851.075000	54.03	---	74.00	19.97	100.0	H	271.0	5.0
1851.912500	---	48.43	54.00	5.57	100.0	H	271.0	5.0
2775.675000	47.43	---	74.00	26.57	100.0	H	326.0	7.9
2776.512500	---	39.37	54.00	14.63	100.0	H	8.0	7.9

Final Result

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name: Wirnet™ iZeptoCell
Model: PDTIOT-IZEC900
Test Mode: Lora_DTS 500K_SF12_925.7MHz
Order No/Sample No: 168378550/A003283029-002
Test Voltage: DC 5V From USB
Remark: Temp 23 Humi:58%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

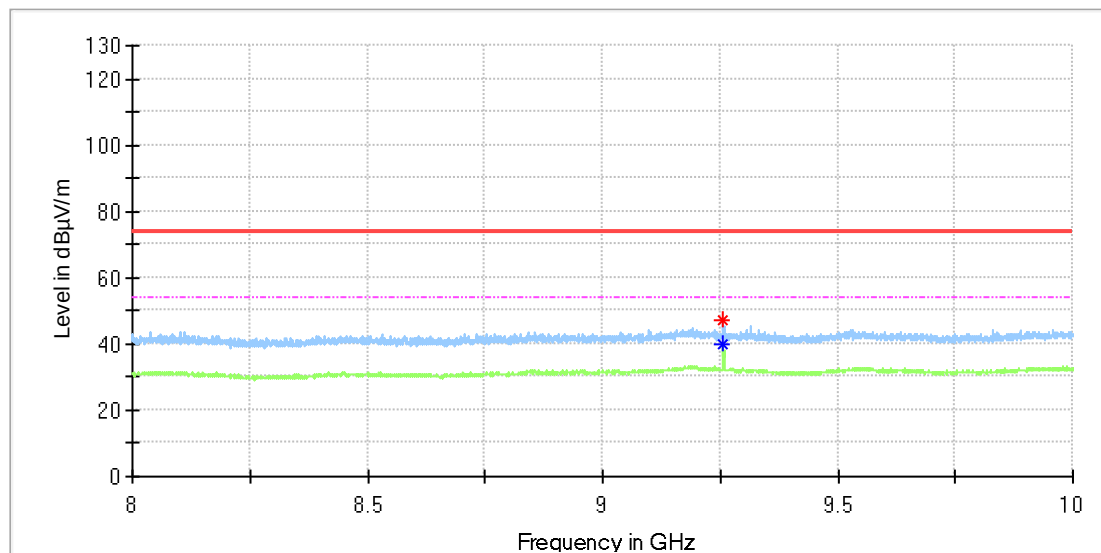
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1851.075000	53.30	---	74.00	20.70	100.0	V	141.0	5.0
1851.912500	---	46.46	54.00	7.54	100.0	V	141.0	5.0
2777.350000	---	41.25	54.00	12.75	100.0	V	97.0	7.9
2777.350000	48.92	---	74.00	25.08	100.0	V	97.0	7.9

Final_Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---	---	---

EUT Information

EUT Name: Wirnet™ iZeptoCell
Model: PDTIOT-IZEC900
Test Mode: Lora_DTS 500K_SF12_925.7MHz
Order No/Sample No: 168378550/A003283029-002
Test Voltage: DC 5V From USB
Remark: Temp 23 Humi:58%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

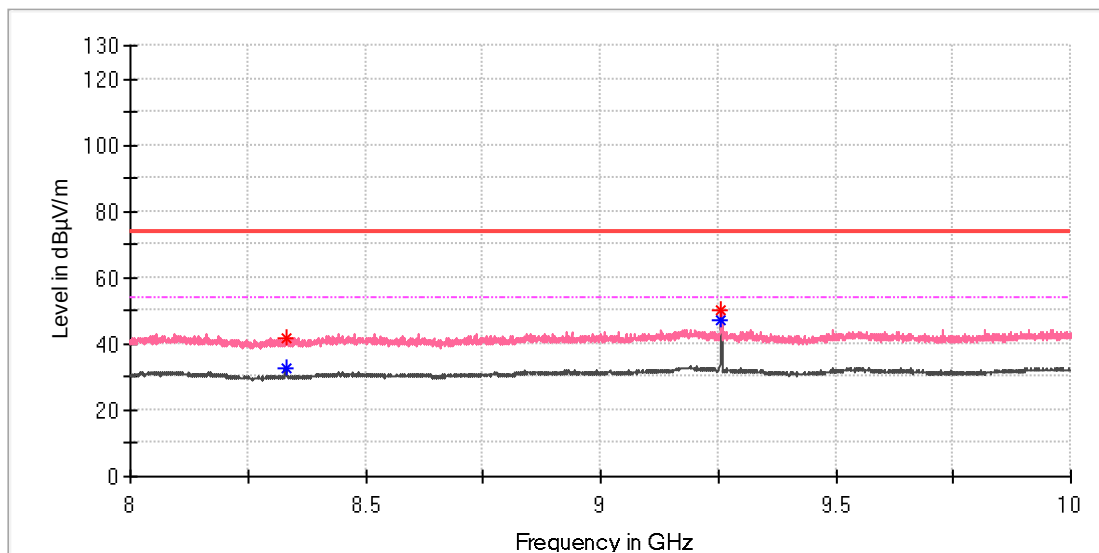
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
9256.500000	47.06	---	74.00	26.94	100.0	H	145.0	10.4
9256.500000	---	39.85	54.00	14.15	100.0	H	145.0	10.4

Final_Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name: Wirnet™ iZeptoCell
Model: PDTIOT-IZEC900
Test Mode: Lora_DTS 500K_SF12_925.7MHz
Order No/Sample No: 168378550/A003283029-002
Test Voltage: DC 5V From USB
Remark: Temp 23 Humi:58%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
8332.000000	---	32.68	54.00	21.32	100.0	V	247.0	8.4
8334.000000	41.63	---	74.00	32.37	100.0	V	80.0	8.4
9257.000000	50.42	---	74.00	23.58	100.0	V	247.0	10.4
9257.000000	---	47.45	54.00	6.55	100.0	V	247.0	10.4

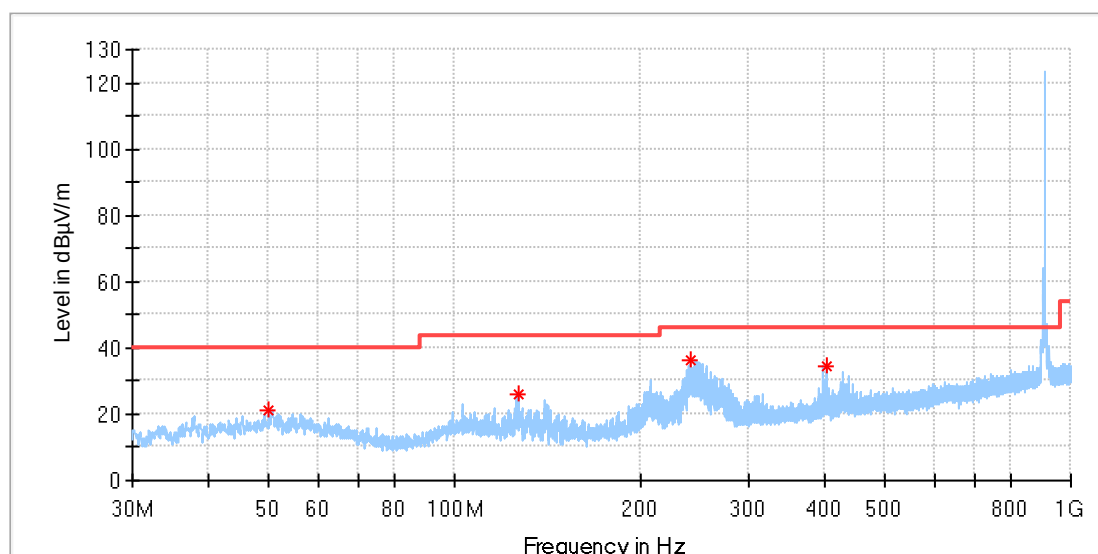
Final_Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

Lora Hybrid SF11 30MHz - 1GHz

EUT Information

EUT Name:	Wirnet™ iZeptoCell
Model:	PDTIOT-IZEC900
Test Mode:	Lora_DTS 500K_SF11_904.6MHz
Order No/Sample No:	168378550/A003283029-002
Test Voltage:	DC 5V From USB
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

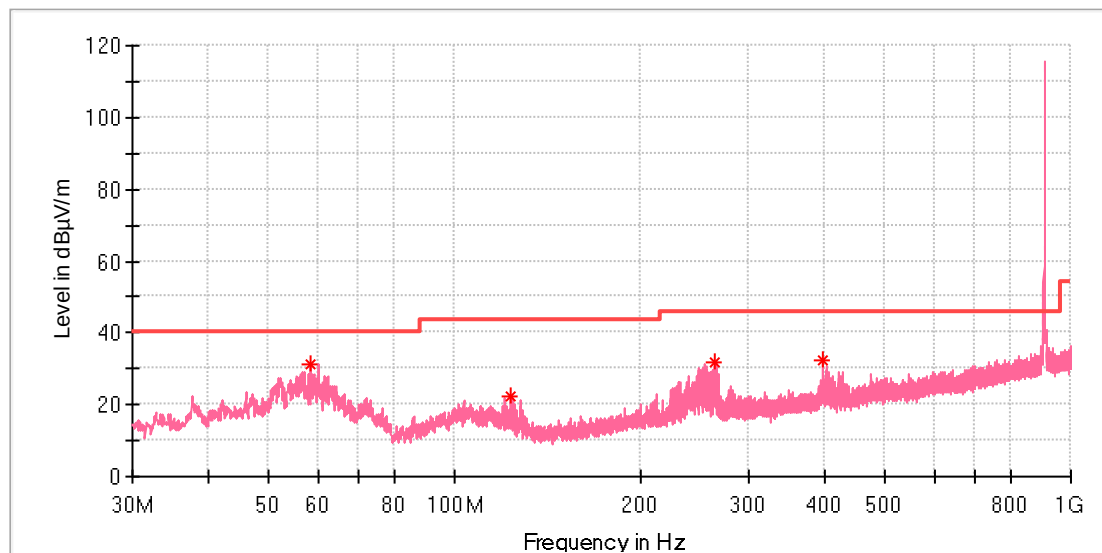
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
50.030500	21.23	40.00	18.77	100.0	H	11.0	-18.3
126.903000	25.76	43.50	17.74	100.0	H	114.0	-21.5
241.702500	36.30	46.00	9.70	100.0	H	5.0	-17.7
400.782500	34.53	46.00	11.47	100.0	H	306.0	-13.6

Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name: Wirnet™ iZeptoCell
Model: PDTIOT-IZEC900
Test Mode: Lora_DTS 500K_SF11_904.6MHz
Order No/Sample No: 168378550/A003283029-002
Test Voltage: DC 5V From USB
Remark: Temp 23 Humi:58%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
58.324000	31.20	40.00	8.80	100.0	V	207.0	-18.8
123.314000	22.17	43.50	21.33	100.0	V	207.0	-21.1
265.225000	31.87	46.00	14.13	100.0	V	353.0	-17.0
395.981000	32.36	46.00	13.64	100.0	V	38.0	-13.7

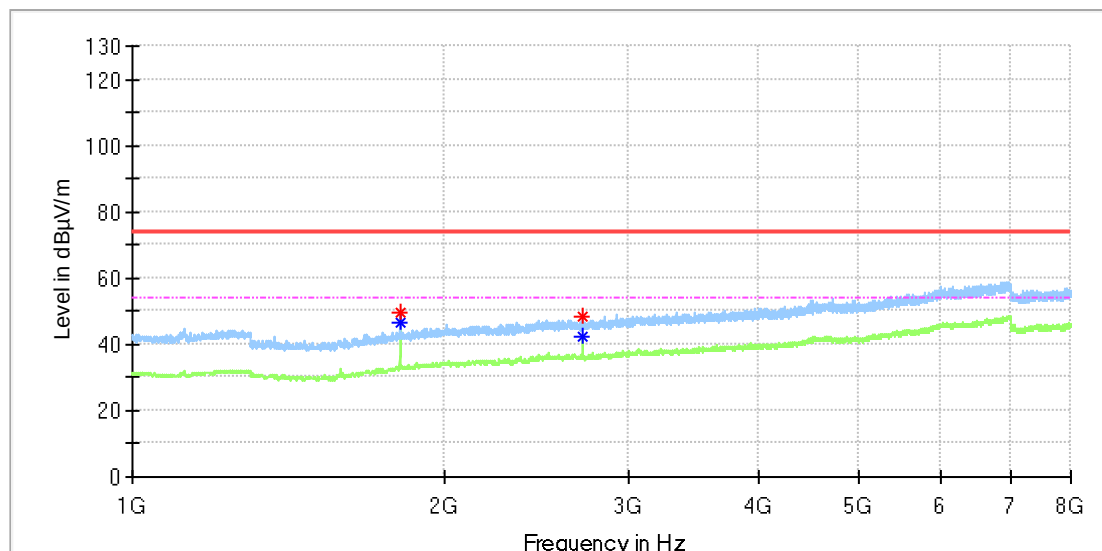
Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---	---	---

1GHz - 10GHz

EUT Information

EUT Name:	Wirnet™ iZeptoCell
Model:	PDTIOT-IZEC900
Test Mode:	Lora_DTS 500K_SF11_904.6MHz
Order No/Sample No:	168378550/A003283029-002
Test Voltage:	DC 5V From USB
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

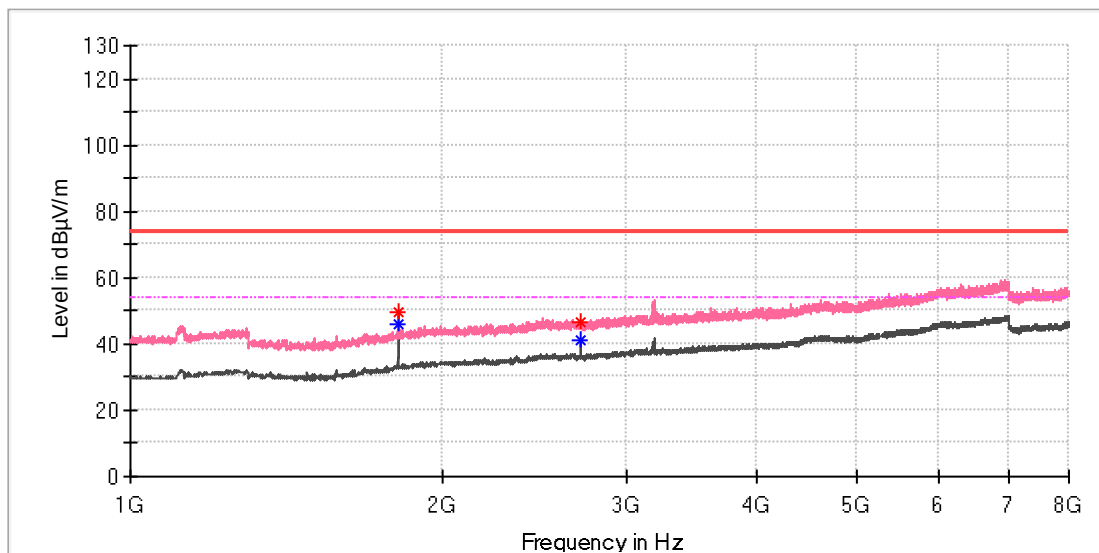
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1809.200000	49.76	---	74.00	24.24	100.0	H	43.0	4.8
1809.200000	---	46.84	54.00	7.16	100.0	H	43.0	4.8
2713.700000	---	42.10	54.00	11.90	100.0	H	18.0	7.6
2714.537500	48.27	---	74.00	25.73	100.0	H	18.0	7.6

Final Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name: Wirnet™ iZeptoCell
Model: PDTIOT-IZEC900
Test Mode: Lora_DTS 500K_SF11_904.6MHz
Order No/Sample No: 168378550/A003283029-002
Test Voltage: DC 5V From USB
Remark: Temp 23 Humi:58%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

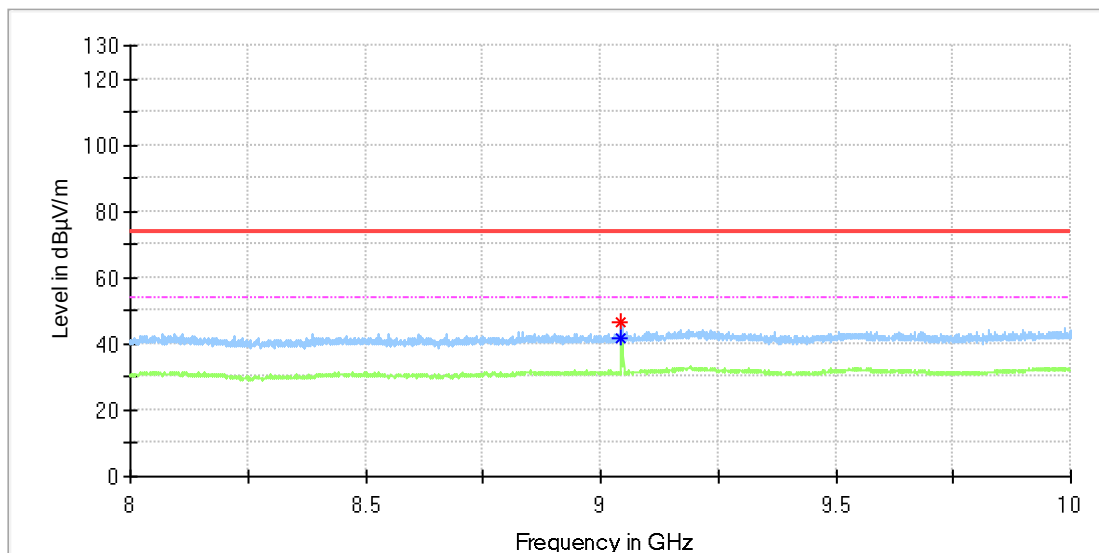
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1809.200000	49.74	---	74.00	24.26	100.0	V	42.0	4.8
1809.200000	---	46.11	54.00	7.89	100.0	V	42.0	4.8
2712.862500	46.58	---	74.00	27.42	100.0	V	71.0	7.6
2713.700000	---	41.30	54.00	12.70	100.0	V	21.0	7.6

Final_Result

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name: Wirnet™ iZeptoCell
Model: PDTIOT-IZEC900
Test Mode: Lora_DTS 500K_SF11_904.6MHz
Order No/Sample No: 168378550/A003283029-002
Test Voltage: DC 5V From USB
Remark: Temp 23 Humi:58%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

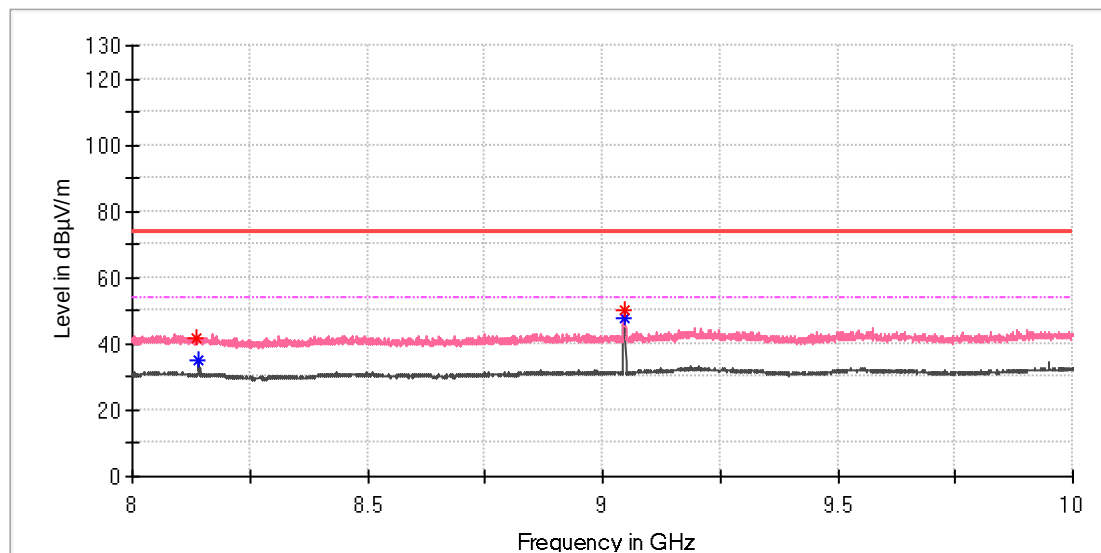
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
9044.500000	46.50	---	74.00	27.50	100.0	H	181.0	9.0
9044.500000	---	41.56	54.00	12.44	100.0	H	181.0	9.0

Final_Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name: Wirnet™ iZeptoCell
Model: PDTIOT-IZEC900
Test Mode: Lora_DTS 500K_SF11_904.6MHz
Order No/Sample No: 168378550/A003283029-002
Test Voltage: DC 5V From USB
Remark: Temp 23 Humi:58%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
8137.000000	41.82	---	74.00	32.18	100.0	V	63.0	8.5
8140.000000	---	34.84	54.00	19.16	100.0	V	92.0	8.5
9046.000000	50.29	---	74.00	23.71	100.0	V	246.0	9.0
9046.000000	---	47.96	54.00	6.04	100.0	V	246.0	9.0

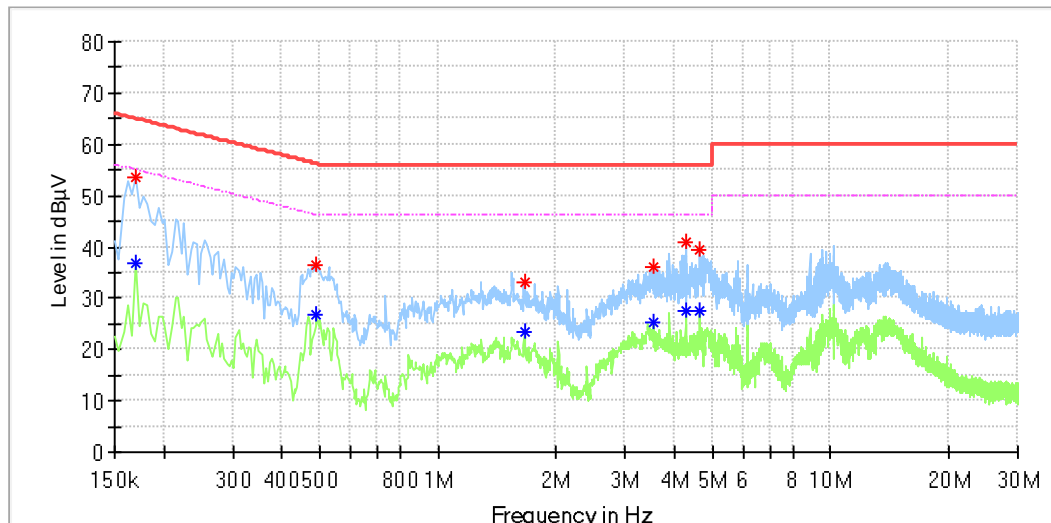
Final_Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

Appendix A.8: Test Results of Conducted Emission on AC Mains

EUT Information

EUT Name: Wirnet™ iZeptoCell
Order No: 168378550
Model: PDTIOT-IZEC900
Test mode: On
Test Voltage: DC 5V via PC
Test By:/Review By: Mac Xie/Gary Chen
Test Standard: FCC Part 15
Tem./Hum./Pressure: 23.7°C/50.4%/101kPa
Remark: SR2

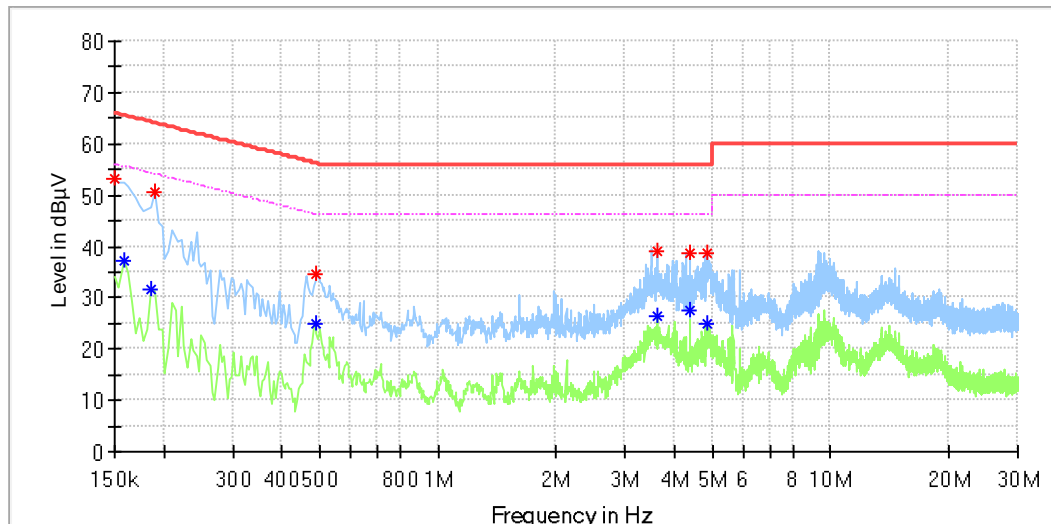


Critical Freqs

Frequency (MHz)	MaxPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.170000	53.41	---	64.96	11.55	L1	9.9
0.170000	---	36.93	54.96	18.03	L1	9.9
0.486000	36.43	---	56.24	19.80	L1	10.0
0.490000	---	26.98	46.17	19.19	L1	10.0
1.658000	---	23.51	46.00	22.49	L1	10.1
1.658000	33.06	---	56.00	22.94	L1	10.1
3.530000	---	25.17	46.00	20.84	L1	10.2
3.530000	36.12	---	56.00	19.88	L1	10.2
4.270000	40.79	---	56.00	15.21	L1	10.2
4.270000	---	27.56	46.00	18.44	L1	10.2
4.650000	---	27.52	46.00	18.48	L1	10.2
4.650000	39.48	---	56.00	16.52	L1	10.2

EUT Information

EUT Name: Wirnet™ iZeptoCell
Order No: 168378550
Model: PDTIOT-IZEC900
Test mode: On
Test Voltage: DC 5V via PC
Test By:/Review By: Mac Xie/Gary Chen
Test Standard: FCC Part 15
Tem./Hum./Pressure: 23.7°C/50.4%//101kPa
Remark: SR2



Critical Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.150000	53.38	---	66.00	12.62	N	9.8
0.158000	---	37.35	55.57	18.21	N	9.8
0.186000	---	31.75	54.21	22.47	N	9.8
0.190000	50.55	---	64.04	13.49	N	9.8
0.486000	---	24.91	46.24	21.32	N	9.8
0.490000	34.54	---	56.17	21.63	N	9.8
3.626000	---	26.23	46.00	19.77	N	9.9
3.626000	38.97	---	56.00	17.03	N	9.9
4.390000	---	27.52	46.00	18.48	N	9.9
4.390000	38.56	---	56.00	17.44	N	9.9
4.854000	---	24.94	46.00	21.06	N	9.9
4.854000	38.88	---	56.00	17.12	N	9.9

===== END OF APPENDIX =====