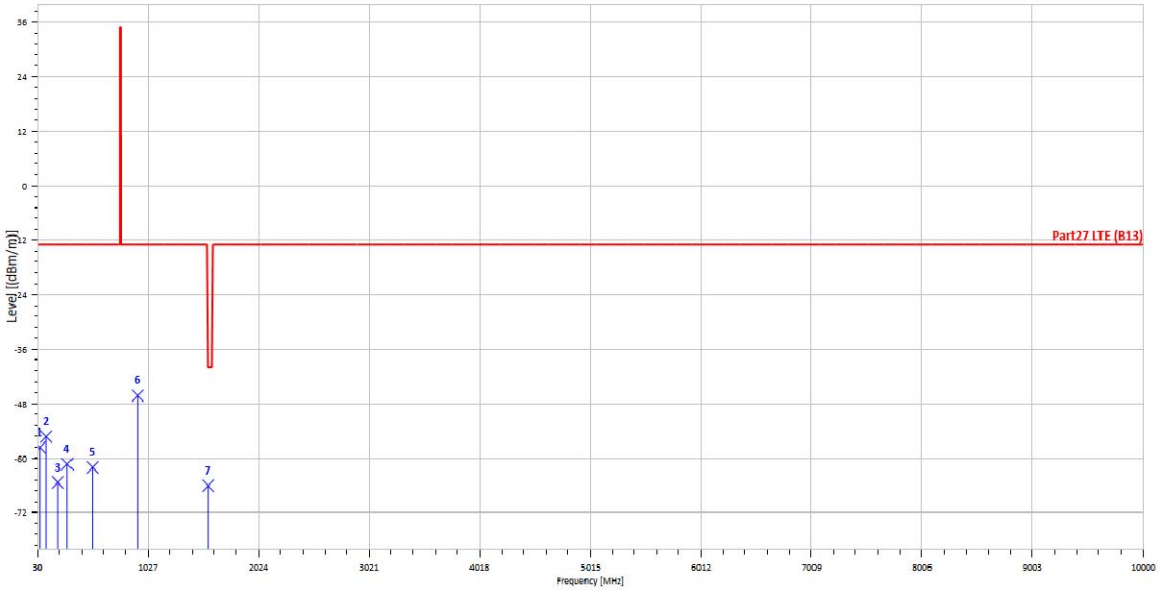
Project No.	E2/2018/70058	Fundamental Frequency	784.5 MHz
IMEI No.	359324080457857	Operation Band	Tx CH High
EUT Description		Temp. / Humi.	22.7deg_C/57RH
EUT Model	HSN-I20C [Blurr] (WWAN_L850-GL(Pandora) SKU4)	Measurement Antenna Pol.	Vertical
EUT Name	Notebook Computer	EUT Pol.	E2
Operation Mode	LTEB13 5M QPSK 1.24	Test Engineer	Jerry



Frequency	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
53.28	S	-57.65	-40.39	-16.80	-0.45	-13.00	-44.65
109.54	S	-55.27	-47.32	-7.36	-0.59	-13.00	-42.27
216.24	S	-65.35	-63.61	-0.88	-0.85	-13.00	-52.35
300.63	S	-61.29	-58.67	-1.60	-1.02	-13.00	-48.29
527.61	S	-62.04	-59.37	-1.36	-1.31	-13.00	-49.04
932.10	S	-46.20	-42.44	-1.97	-1.80	-13.00	-33.20
1569.00	H	-66.09	-70.27	6.57	-2.39	-40.00	-26.09

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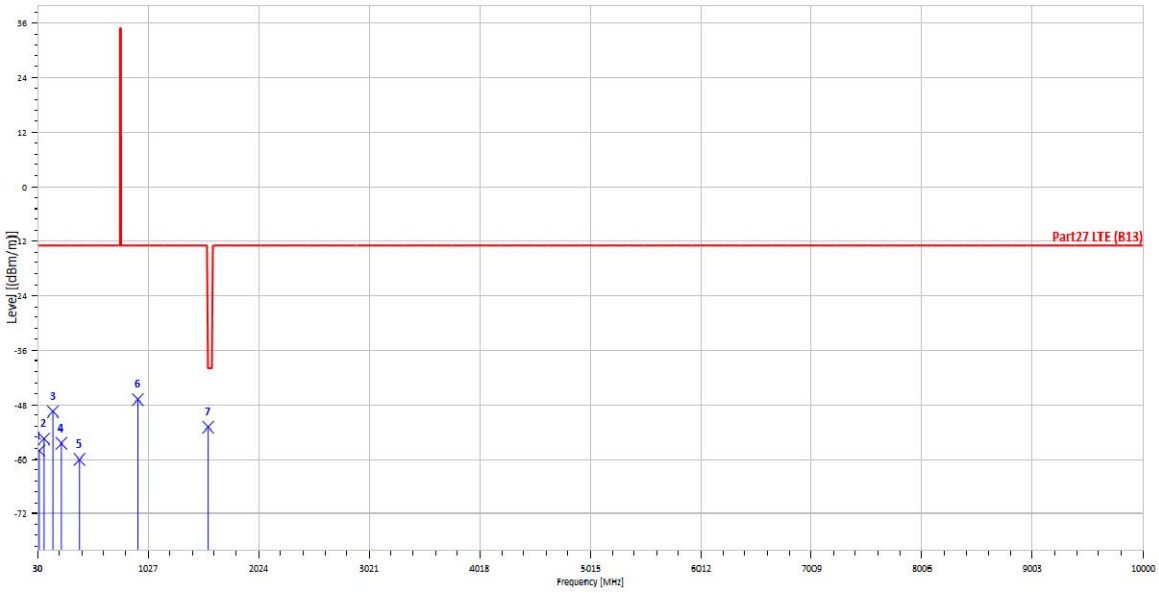
Project No.	E2/2018/70058	Fundamental Frequency	784.5 MHz
IMEI No.	359324080457857	Operation Band	Tx CH High
EUT Description		Temp. / Humi.	22.7deg_C/57RH
EUT Model	HSN-I20C [Blurr] (WWAN_L850-GL(Pandora) SKU4)	Measurement Antenna Pol.	Horizontal
EUT Name	Notebook Computer	EUT Pol.	E2
Operation Mode	LTEB13 5M QPSK 1.24	Test Engineer	Jerry



Frequency	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
46.49	S	-58.12	-39.65	-18.06	-0.41	-13.00	-45.12
90.14	S	-55.53	-48.66	-6.34	-0.53	-13.00	-42.53
171.62	S	-49.51	-42.86	-5.90	-0.75	-13.00	-36.51
249.22	S	-56.51	-54.20	-1.38	-0.94	-13.00	-43.51
406.36	S	-60.09	-57.38	-1.42	-1.29	-13.00	-47.09
933.07	S	-46.87	-43.10	-1.97	-1.80	-13.00	-33.87
1569.00	H	-52.94	-57.12	6.57	-2.39	-40.00	-12.94

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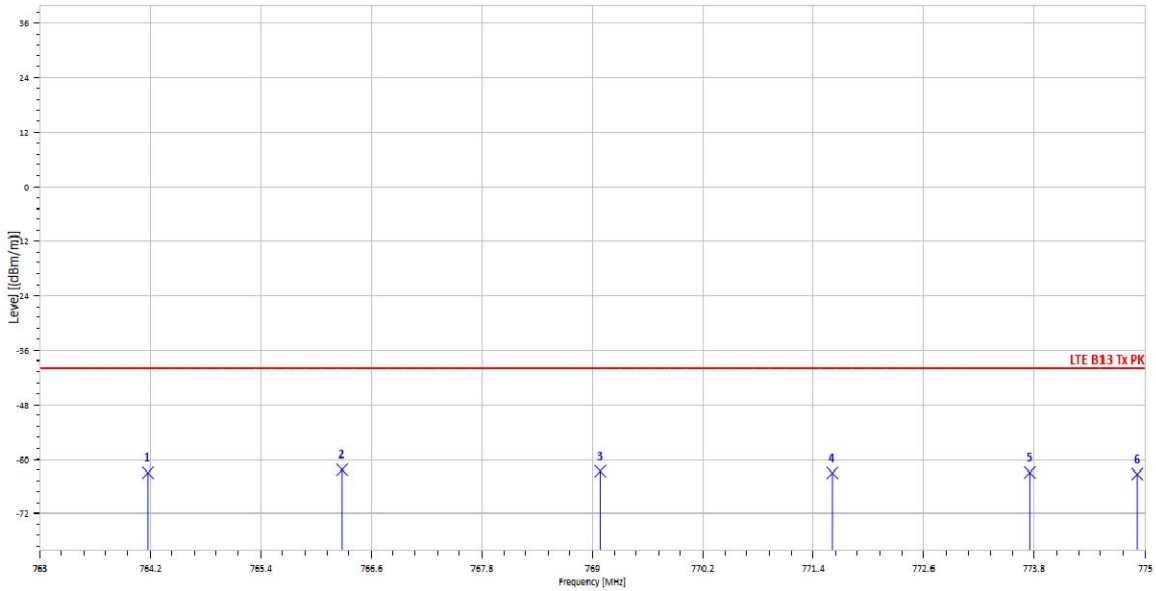
Radiated Spurious Emission Measurement Result: LTE-Band 13 (763~775MHz)

Project No.	E2/2018/70058	Fundamental Frequency	779.5 MHz
IMEI No.	359324080457857	Operation Band	Tx CH Low
EUT Description		Temp. / Humi.	22.7deg_C/57RH
EUT Model	HSN-I20C [Blurr] (WWAN_L850-GL(Pandora) SKU4)	Measurement Antenna Pol.	Vertical
EUT Name	Notebook Computer	EUT Pol.	E2
Operation Mode	LTEB13 5M QPSK 1.24	Test Engineer	Jerry



Frequency	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
764.18	S	-63.02	-59.20	-2.23	-1.59	-40.00	-23.02
766.29	S	-62.30	-58.49	-2.21	-1.60	-40.00	-22.30
769.08	S	-62.64	-58.84	-2.19	-1.61	-40.00	-22.64
771.60	S	-63.08	-59.28	-2.17	-1.63	-40.00	-23.08
773.75	S	-62.97	-59.18	-2.15	-1.64	-40.00	-22.97
774.92	S	-63.32	-59.55	-2.13	-1.64	-40.00	-23.32

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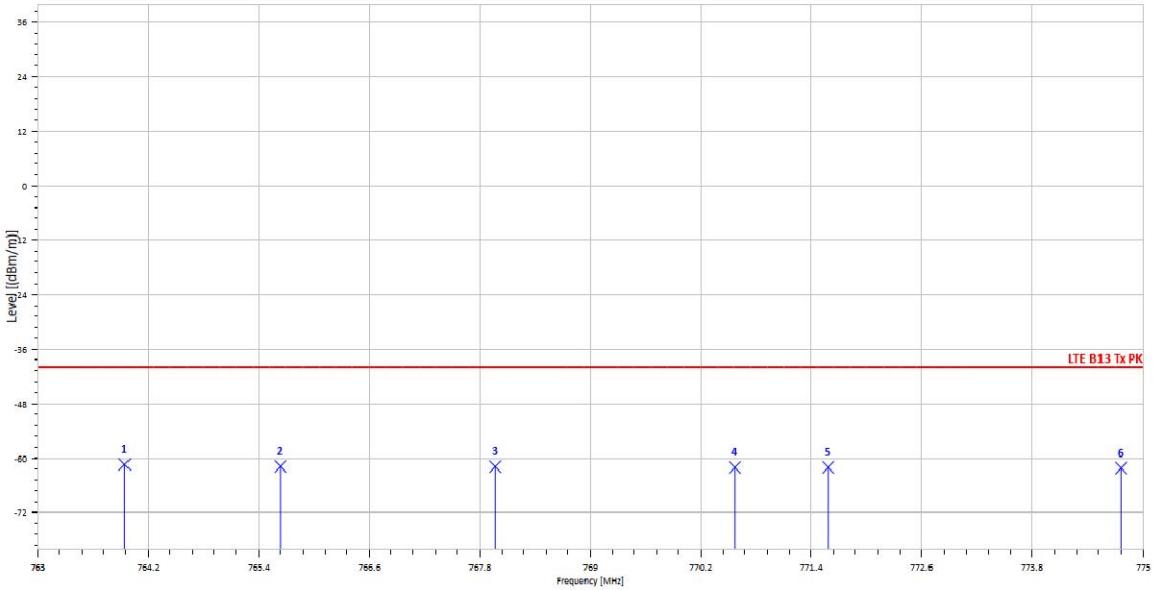
Project No.	E2/2018/70058	Fundamental Frequency	779.5 MHz
IMEI No.	359324080457857	Operation Band	Tx CH Low
EUT Description		Temp. / Humi.	22.7deg_C/57RH
EUT Model	HSN-I20C [Blurr] (WWAN_L850-GL(Pandora) SKU4)	Measurement Antenna Pol.	Horizontal
EUT Name	Notebook Computer	EUT Pol.	E2
Operation Mode	LTEB13 5M QPSK 1.24	Test Engineer	Jerry



Frequency	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
763.95	S	-61.38	-57.55	-2.24	-1.58	-40.00	-21.38
765.64	S	-61.81	-58.00	-2.22	-1.59	-40.00	-21.81
767.97	S	-61.86	-58.06	-2.20	-1.61	-40.00	-21.86
770.57	S	-62.04	-58.24	-2.17	-1.62	-40.00	-22.04
771.58	S	-62.01	-58.22	-2.17	-1.63	-40.00	-22.01
774.76	S	-62.18	-58.40	-2.14	-1.64	-40.00	-22.18

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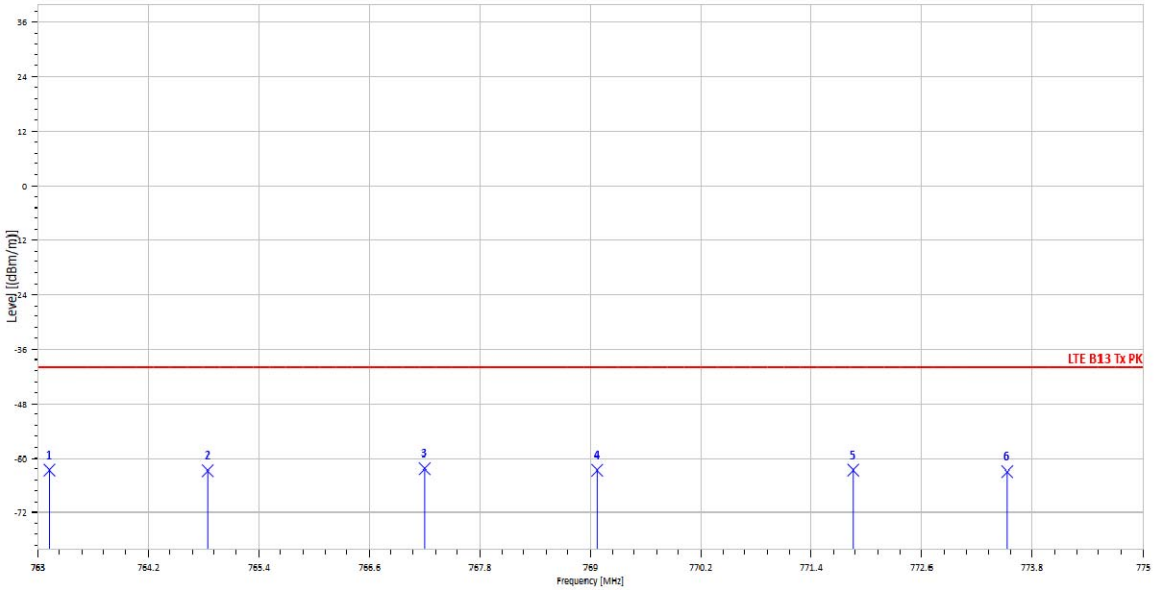
Project No.	E2/2018/70058	Fundamental Frequency	782 MHz
IMEI No.	359324080457857	Operation Band	Tx CH Mid
EUT Description		Temp. / Humi.	22.7deg_C/57RH
EUT Model	HSN-I20C [Blurr] (WWAN_L850-GL(Pandora) SKU4)	Measurement Antenna Pol.	Vertical
EUT Name	Notebook Computer	EUT Pol.	E2
Operation Mode	LTEB13 5M QPSK 1.24	Test Engineer	Jerry



Frequency	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
763.13	S	-62.64	-58.81	-2.24	-1.58	-40.00	-22.64
764.85	S	-62.79	-58.97	-2.23	-1.59	-40.00	-22.79
767.20	S	-62.31	-58.50	-2.21	-1.60	-40.00	-22.31
769.07	S	-62.68	-58.87	-2.19	-1.61	-40.00	-22.68
771.86	S	-62.63	-58.84	-2.16	-1.63	-40.00	-22.63
773.52	S	-63.00	-59.22	-2.15	-1.64	-40.00	-23.00

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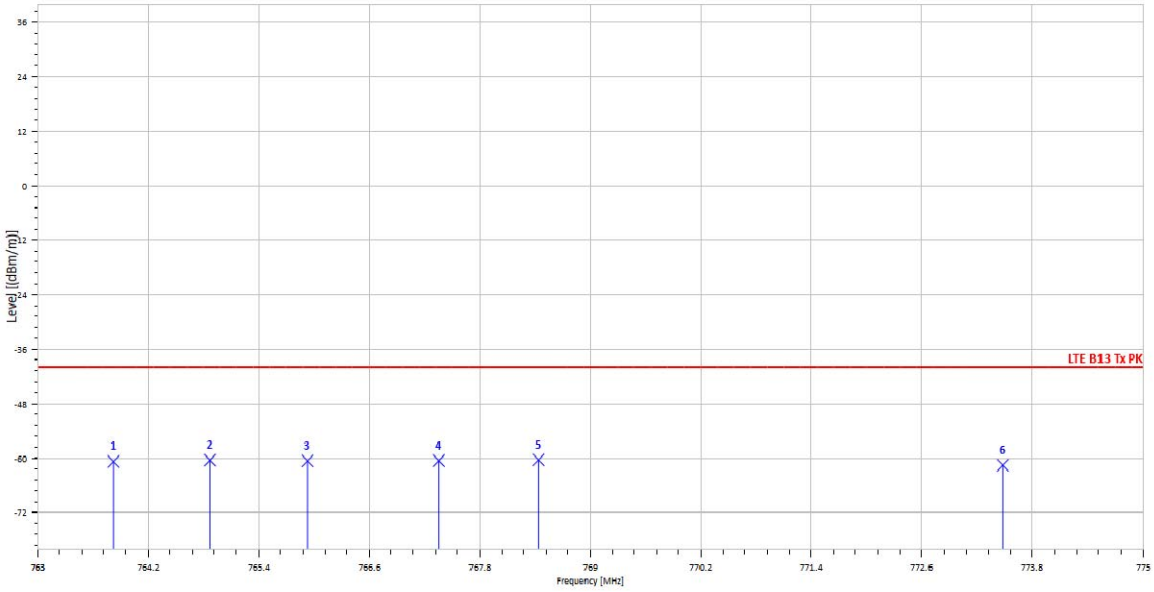
Project No.	E2/2018/70058	Fundamental Frequency	782 MHz
IMEI No.	359324080457857	Operation Band	Tx CH Mid
EUT Description		Temp. / Humi.	22.7deg_C/57RH
EUT Model	HSN-I20C [Blurr] (WWAN_L850-GL(Pandora) SKU4)	Measurement Antenna Pol.	Horizontal
EUT Name	Notebook Computer	EUT Pol.	E2
Operation Mode	LTEB13 5M QPSK 1.24	Test Engineer	Jerry



Frequency	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
763.83	S	-60.76	-56.94	-2.24	-1.58	-40.00	-20.76
764.87	S	-60.46	-56.64	-2.23	-1.59	-40.00	-20.46
765.93	S	-60.62	-56.81	-2.22	-1.59	-40.00	-20.62
767.36	S	-60.57	-56.76	-2.20	-1.60	-40.00	-20.57
768.44	S	-60.39	-56.58	-2.19	-1.61	-40.00	-20.39
773.48	S	-61.54	-57.76	-2.15	-1.64	-40.00	-21.54

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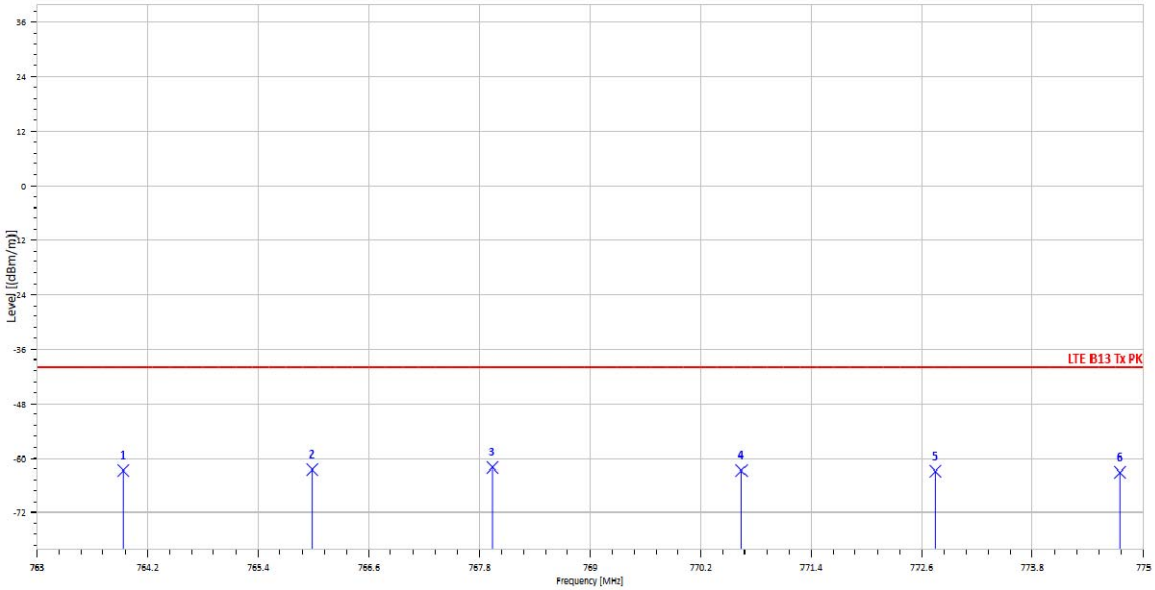
Project No.	E2/2018/70058	Fundamental Frequency	779.5 MHz
IMEI No.	359324080457857	Operation Band	Tx CH High
EUT Description		Temp. / Humi.	22.7deg_C/57RH
EUT Model	HSN-I20C [Blurr] (WWAN_L850-GL(Pandora) SKU4)	Measurement Antenna Pol.	Vertical
EUT Name	Notebook Computer	EUT Pol.	E2
Operation Mode	LTEB13 5M QPSK 1.24	Test Engineer	Jerry



Frequency	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
763.94	S	-62.75	-58.93	-2.24	-1.58	-40.00	-22.75
765.99	S	-62.52	-58.70	-2.22	-1.60	-40.00	-22.52
767.94	S	-62.01	-58.21	-2.20	-1.61	-40.00	-22.01
770.64	S	-62.75	-58.95	-2.17	-1.62	-40.00	-22.75
772.74	S	-62.90	-59.11	-2.15	-1.63	-40.00	-22.90
774.75	S	-63.17	-59.39	-2.14	-1.64	-40.00	-23.17

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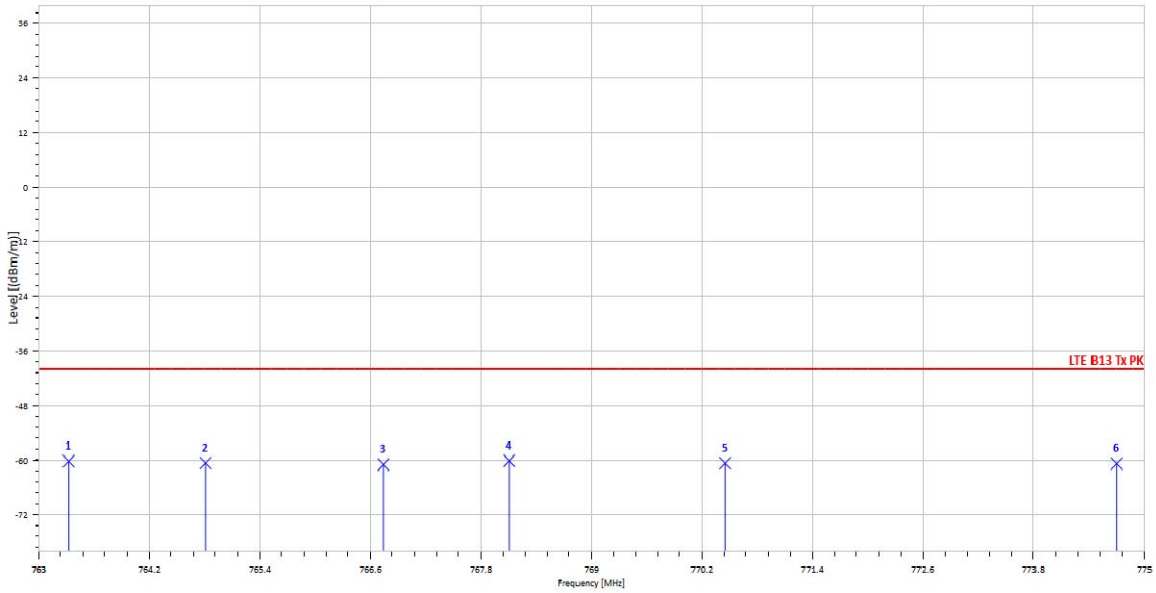
Project No.	E2/2018/70058	Fundamental Frequency	779.5 MHz
IMEI No.	359324080457857	Operation Band	Tx CH High
EUT Description		Temp. / Humi.	22.7deg_C/57RH
EUT Model	HSN-I20C [Blurr] (WWAN_L850-GL(Pandora) SKU4)	Measurement Antenna Pol.	Horizontal
EUT Name	Notebook Computer	EUT Pol.	E2
Operation Mode	LTEB13 5M QPSK 1.24	Test Engineer	Jerry



Frequency	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
763.32	S	-60.24	-56.42	-2.24	-1.58	-40.00	-20.24
764.81	S	-60.66	-56.84	-2.23	-1.59	-40.00	-20.66
766.74	S	-60.98	-57.17	-2.21	-1.60	-40.00	-20.98
768.11	S	-60.16	-56.35	-2.20	-1.61	-40.00	-20.16
770.45	S	-60.69	-56.90	-2.18	-1.62	-40.00	-20.69
774.70	S	-60.77	-57.00	-2.14	-1.64	-40.00	-20.77

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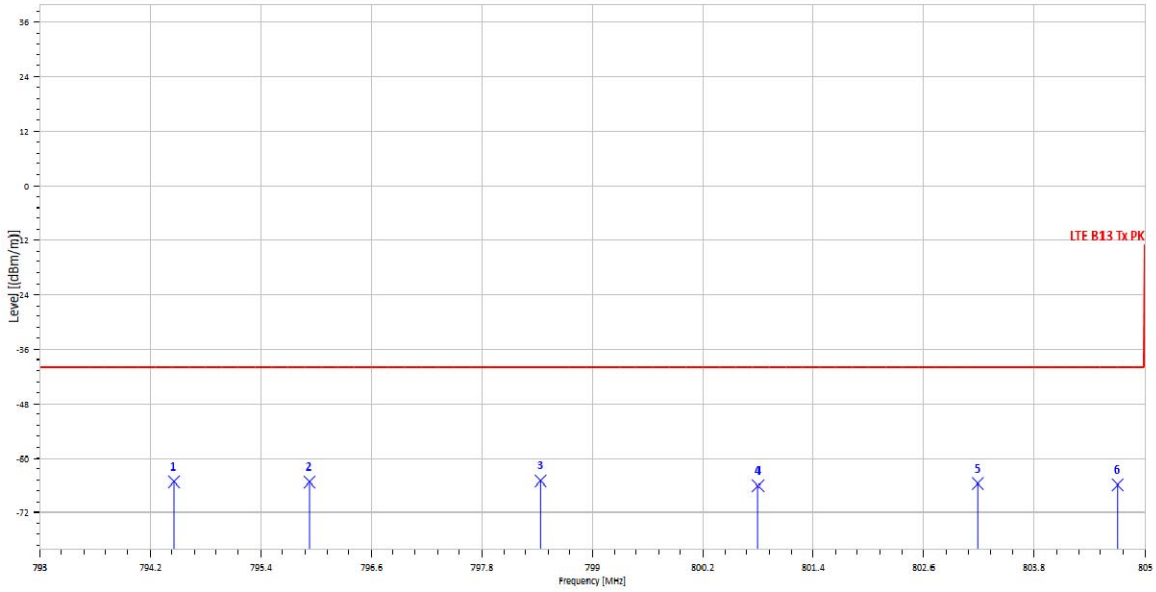
Radiated Spurious Emission Measurement Result: LTE-Band 13 (793~805MHz)

Project No.	E2/2018/70058	Fundamental Frequency	779.5 MHz
IMEI No.	359324080457857	Operation Band	Tx CH Low
EUT Description		Temp. / Humi.	22.7deg_C/57RH
EUT Model	HSN-I20C [Blurr] (WWAN_L850-GL(Pandora) SKU4)	Measurement Antenna Pol.	Vertical
EUT Name	Notebook Computer	EUT Pol.	E2
Operation Mode	LTEB13 5M QPSK 1.24	Test Engineer	Jerry



Frequency	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
794.46	S	-65.18	-61.63	-1.96	-1.59	-40.00	-25.18
795.93	S	-65.25	-61.71	-1.94	-1.59	-40.00	-25.25
798.44	S	-64.97	-61.46	-1.92	-1.60	-40.00	-24.97
800.80	S	-66.12	-62.61	-1.91	-1.60	-40.00	-26.12
803.19	S	-65.58	-62.07	-1.91	-1.60	-40.00	-25.58
804.70	S	-65.91	-62.39	-1.91	-1.60	-40.00	-25.91

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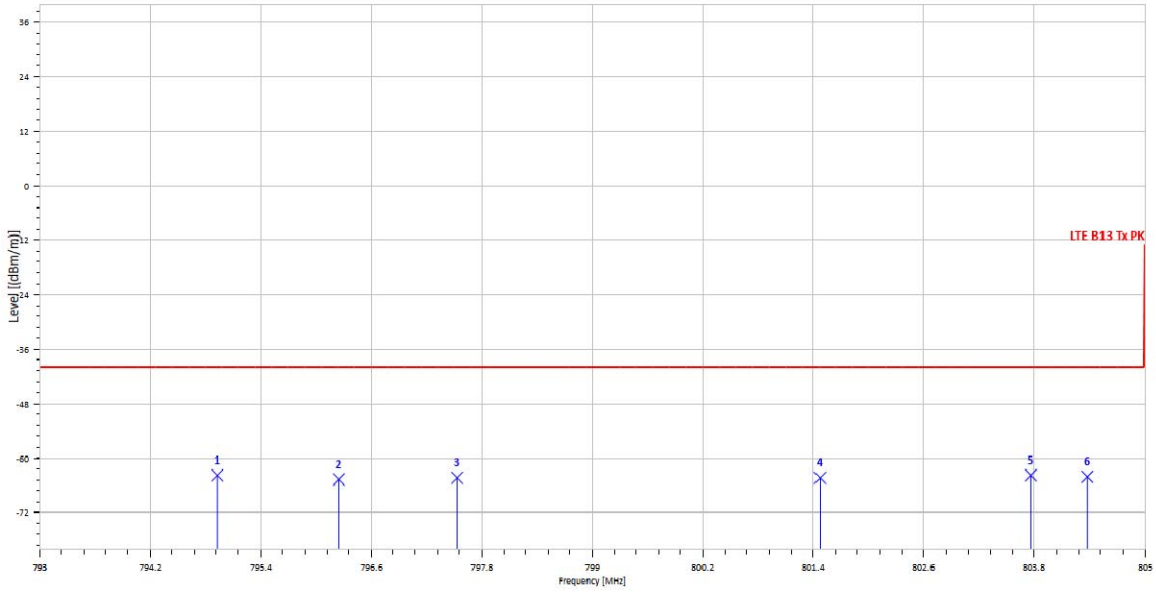
Project No.	E2/2018/70058	Fundamental Frequency	779.5 MHz
IMEI No.	359324080457857	Operation Band	Tx CH Low
EUT Description		Temp. / Humi.	22.7deg_C/57RH
EUT Model	HSN-I20C [Blurr] (WWAN_L850-GL(Pandora) SKU4)	Measurement Antenna Pol.	Horizontal
EUT Name	Notebook Computer	EUT Pol.	E2
Operation Mode	LTEB13 5M QPSK 1.24	Test Engineer	Jerry



Frequency	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
794.93	S	-63.80	-60.25	-1.95	-1.59	-40.00	-23.80
796.25	S	-64.68	-61.14	-1.94	-1.59	-40.00	-24.68
797.54	S	-64.34	-60.82	-1.93	-1.60	-40.00	-24.34
801.47	S	-64.35	-60.84	-1.91	-1.60	-40.00	-24.35
803.76	S	-63.78	-60.26	-1.91	-1.60	-40.00	-23.78
804.38	S	-64.12	-60.61	-1.91	-1.60	-40.00	-24.12

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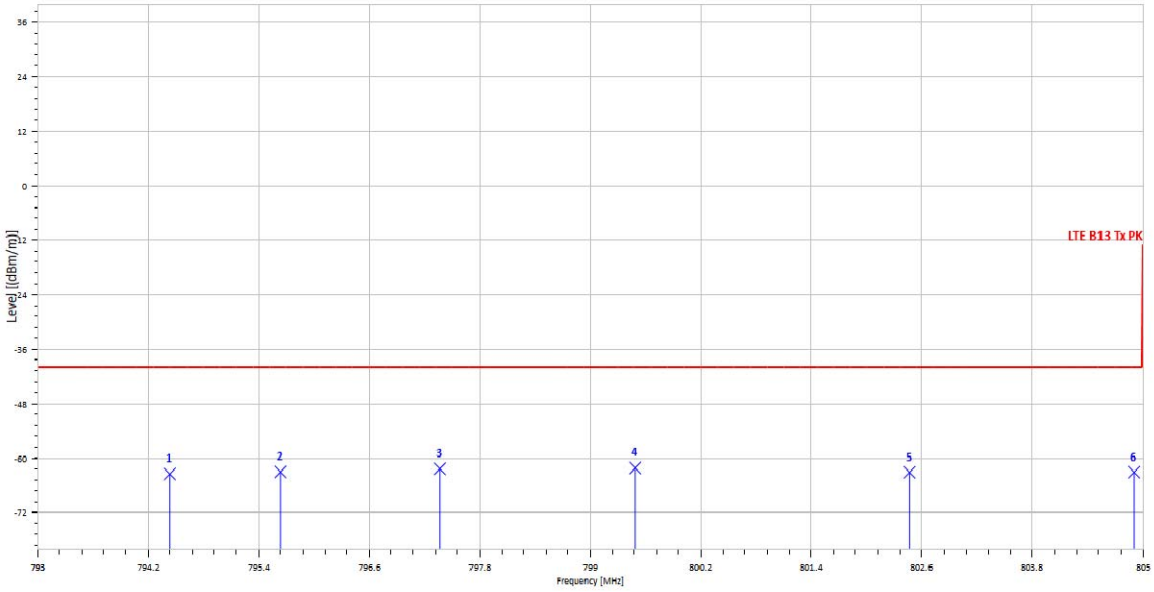
Project No.	E2/2018/70058	Fundamental Frequency	782 MHz
IMEI No.	359324080457857	Operation Band	Tx CH Mid
EUT Description		Temp. / Humi.	22.7deg_C/57RH
EUT Model	HSN-I20C [Blurr] (WWAN_L850-GL(Pandora) SKU4)	Measurement Antenna Pol.	Vertical
EUT Name	Notebook Computer	EUT Pol.	E2
Operation Mode	LTEB13 5M QPSK 1.24	Test Engineer	Jerry



Frequency	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
794.44	S	-63.51	-59.96	-1.96	-1.59	-40.00	-23.51
795.64	S	-63.05	-59.51	-1.95	-1.59	-40.00	-23.05
797.37	S	-62.33	-58.80	-1.93	-1.60	-40.00	-22.33
799.49	S	-62.15	-58.64	-1.91	-1.60	-40.00	-22.15
802.47	S	-63.13	-59.62	-1.91	-1.60	-40.00	-23.13
804.90	S	-63.11	-59.59	-1.91	-1.60	-40.00	-23.11

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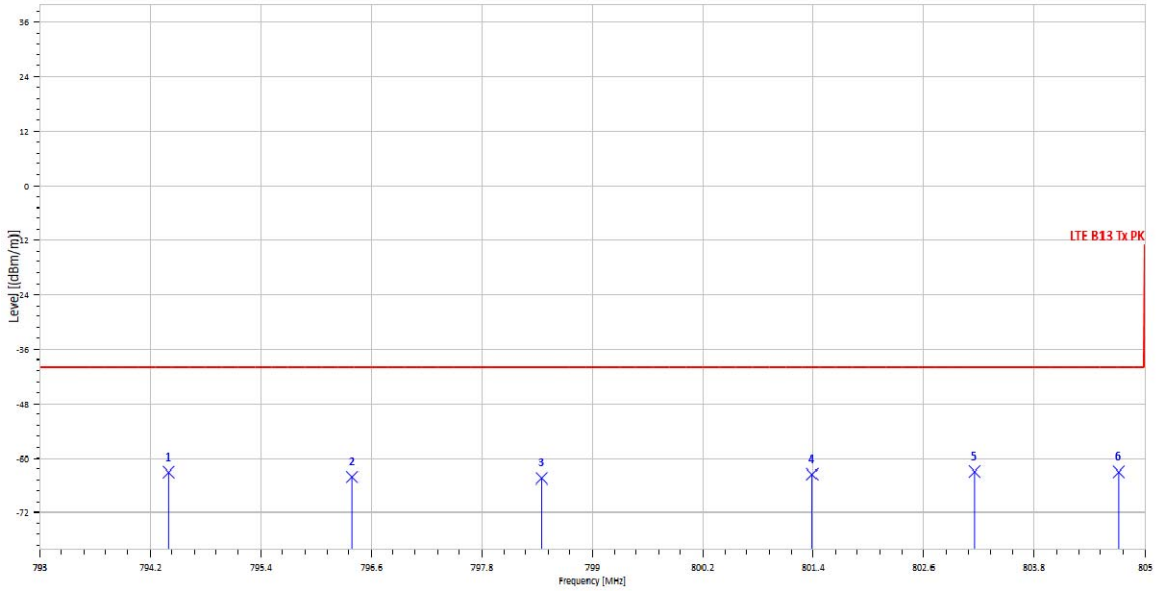
Project No.	E2/2018/70058	Fundamental Frequency	782 MHz
IMEI No.	359324080457857	Operation Band	Tx CH Mid
EUT Description		Temp. / Humi.	22.7deg_C/57RH
EUT Model	HSN-I20C [Blurr] (WWAN_L850-GL(Pandora) SKU4)	Measurement Antenna Pol.	Horizontal
EUT Name	Notebook Computer	EUT Pol.	E2
Operation Mode	LTEB13 5M QPSK 1.24	Test Engineer	Jerry



Frequency	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
794.40	S	-63.12	-59.57	-1.96	-1.59	-40.00	-23.12
796.40	S	-64.15	-60.62	-1.94	-1.59	-40.00	-24.15
798.45	S	-64.42	-60.90	-1.92	-1.60	-40.00	-24.42
801.39	S	-63.59	-60.08	-1.91	-1.60	-40.00	-23.59
803.15	S	-62.97	-59.46	-1.91	-1.60	-40.00	-22.97
804.71	S	-63.04	-59.53	-1.91	-1.60	-40.00	-23.04

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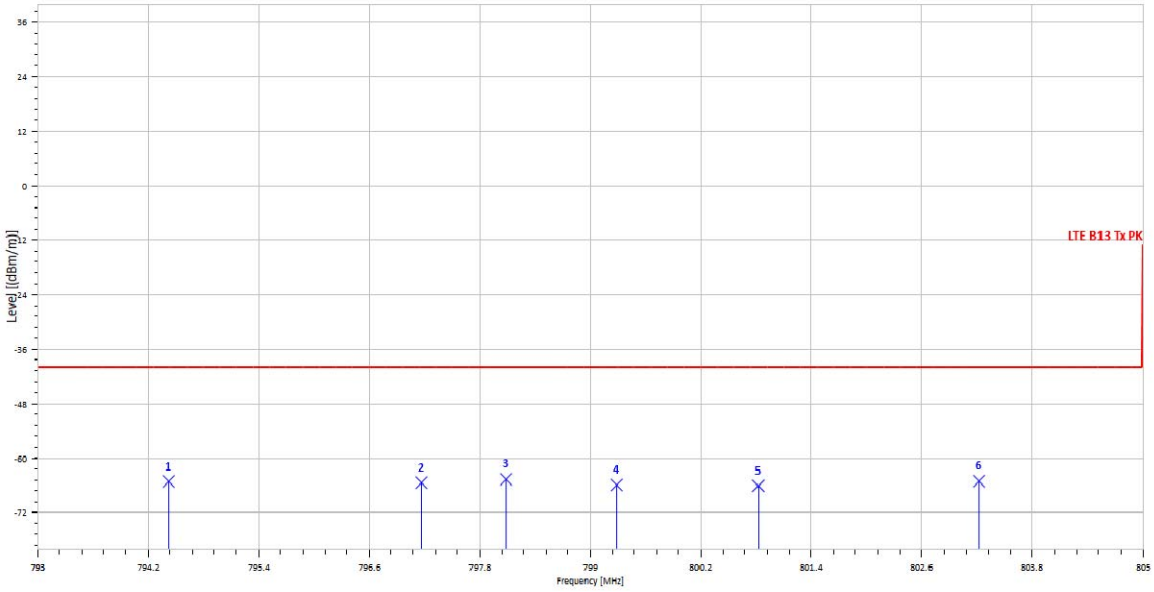
Project No.	E2/2018/70058	Fundamental Frequency	779.5 MHz
IMEI No.	359324080457857	Operation Band	Tx CH High
EUT Description		Temp. / Humi.	22.7deg_C/57RH
EUT Model	HSN-I20C [Blurr] (WWAN_L850-GL(Pandora) SKU4)	Measurement Antenna Pol.	Vertical
EUT Name	Notebook Computer	EUT Pol.	E2
Operation Mode	LTEB13 5M QPSK 1.24	Test Engineer	Jerry



Frequency	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
794.43	S	-65.12	-61.57	-1.96	-1.59	-40.00	-25.12
797.16	S	-65.41	-61.88	-1.93	-1.60	-40.00	-25.41
798.09	S	-64.65	-61.13	-1.93	-1.60	-40.00	-24.65
799.29	S	-65.93	-62.41	-1.91	-1.60	-40.00	-25.93
800.82	S	-66.12	-62.61	-1.91	-1.60	-40.00	-26.12
803.22	S	-65.07	-61.56	-1.91	-1.60	-40.00	-25.07

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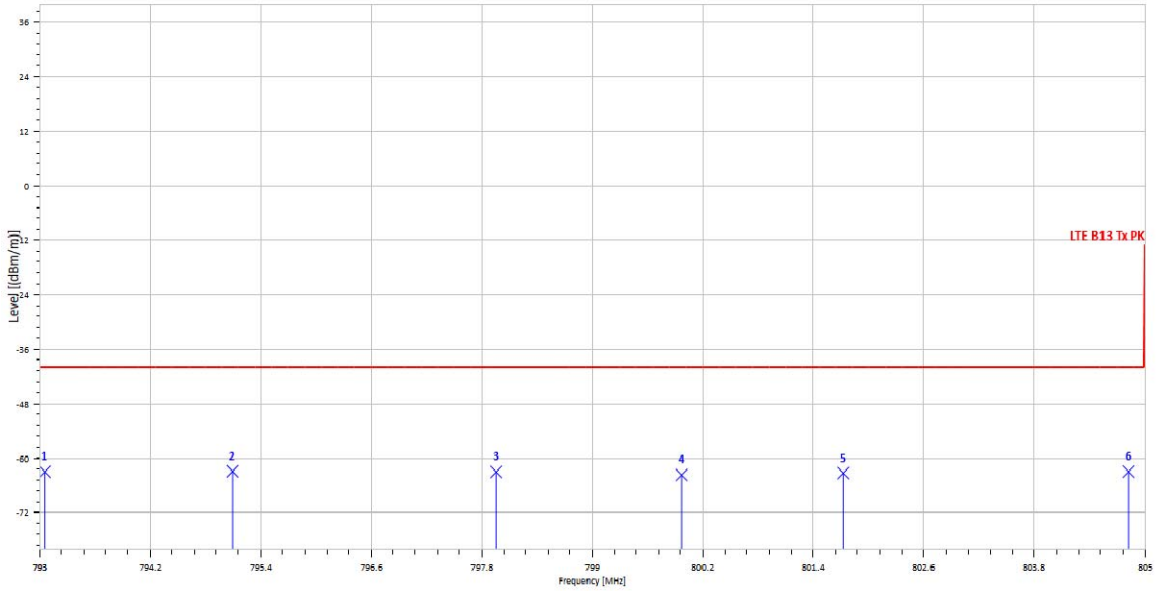
Project No.	E2/2018/70058	Fundamental Frequency	779.5 MHz
IMEI No.	359324080457857	Operation Band	Tx CH High
EUT Description		Temp. / Humi.	22.7deg_C/57RH
EUT Model	HSN-I20C [Blurr] (WWAN_L850-GL(Pandora) SKU4)	Measurement Antenna Pol.	Horizontal
EUT Name	Notebook Computer	EUT Pol.	E2
Operation Mode	LTEB13 5M QPSK 1.24	Test Engineer	Jerry



Frequency	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
793.06	S	-63.02	-59.46	-1.97	-1.59	-40.00	-23.02
795.10	S	-62.91	-59.37	-1.95	-1.59	-40.00	-22.91
797.96	S	-63.04	-59.52	-1.93	-1.60	-40.00	-23.04
799.97	S	-63.73	-60.22	-1.91	-1.60	-40.00	-23.73
801.72	S	-63.31	-59.80	-1.91	-1.60	-40.00	-23.31
804.82	S	-62.99	-59.47	-1.91	-1.60	-40.00	-22.99

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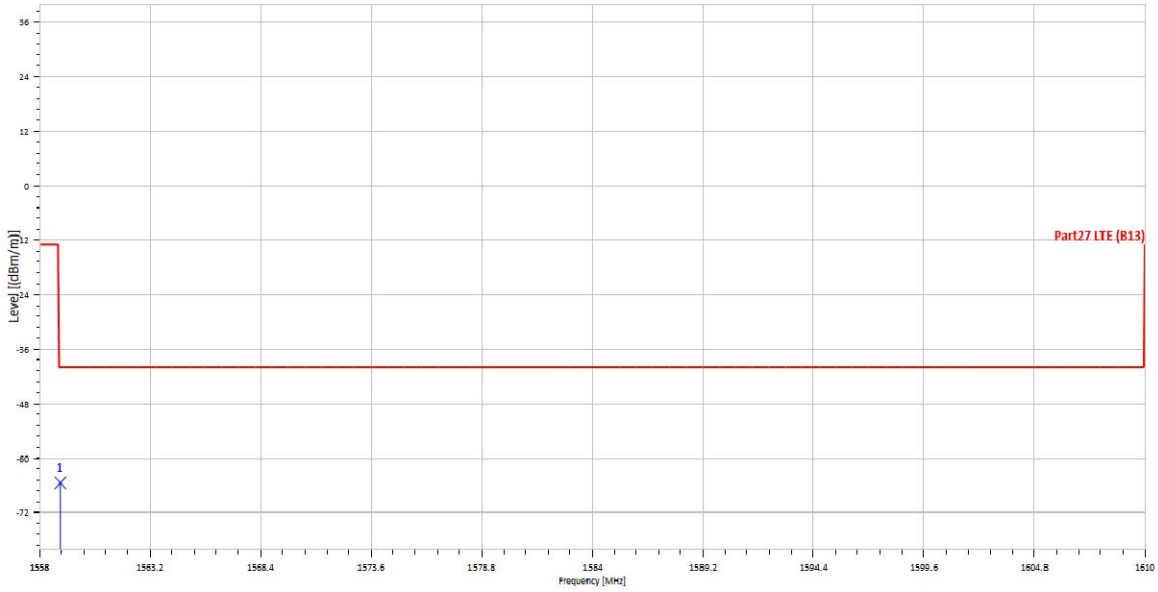
Radiated Spurious Emission Measurement Result: LTE-Band 13 (1558~1610MHz)

Project No.	E2/2018/70058	Fundamental Frequency	779.5 MHz
IMEI No.	359324080457857	Operation Band	Tx CH Low
EUT Description		Temp. / Humi.	22.7deg_C/57RH
EUT Model	HSN-I20C [Blurr] (WWAN_L850-GL(Pandora) SKU4)	Measurement Antenna Pol.	Vertical
EUT Name	Notebook Computer	EUT Pol.	E2
Operation Mode	LTEB13 5M QPSK 1.24	Test Engineer	Jerry



Frequency	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1559.00	H	-65.45	-69.61	6.54	-2.38	-40.00	-25.45

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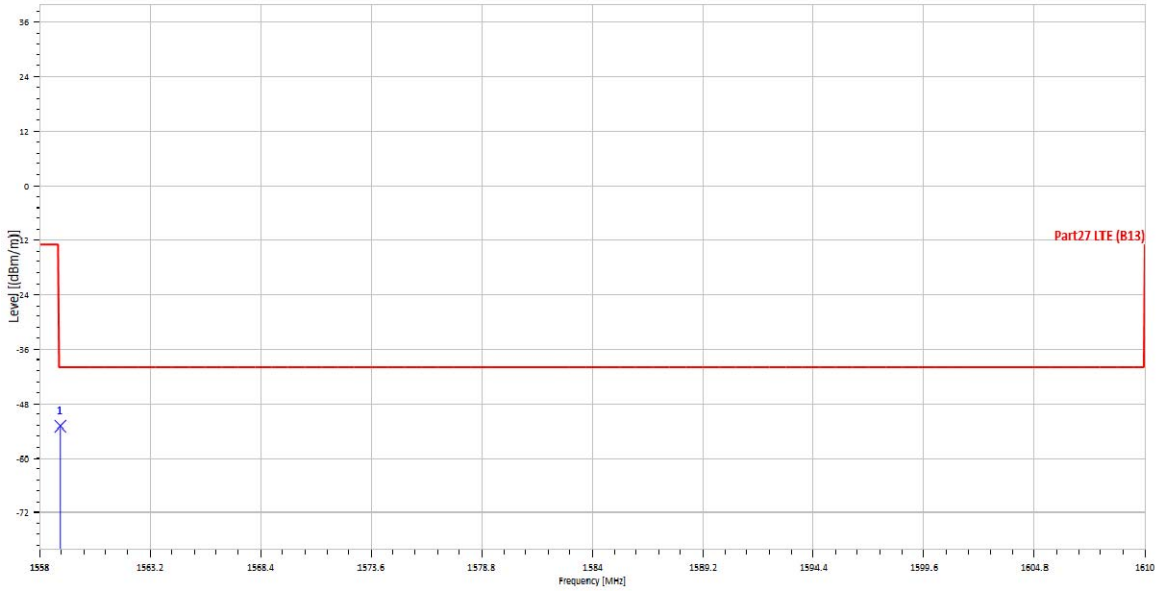
Project No.	E2/2018/70058	Fundamental Frequency	779.5 MHz
IMEI No.	359324080457857	Operation Band	Tx CH Low
EUT Description		Temp. / Humi.	22.7deg_C/57RH
EUT Model	HSN-I20C [Blurr] (WWAN_L850-GL(Pandora) SKU4)	Measurement Antenna Pol.	Horizontal
EUT Name	Notebook Computer	EUT Pol.	E2
Operation Mode	LTEB13 5M QPSK 1.24	Test Engineer	Jerry



Frequency	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1559.00	H	-52.94	-57.10	6.54	-2.38	-40.00	-12.94

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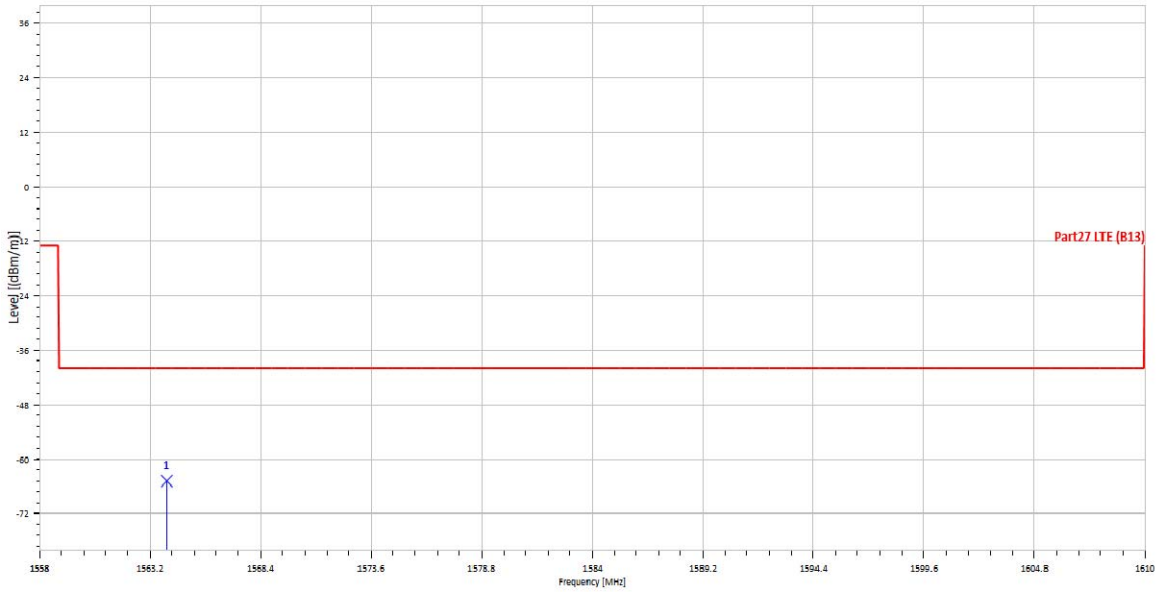
Project No.	E2/2018/70058	Fundamental Frequency	782 MHz
IMEI No.	359324080457857	Operation Band	Tx CH Mid
EUT Description		Temp. / Humi.	22.7deg_C/57RH
EUT Model	HSN-I20C [Blurr] (WWAN_L850-GL(Pandora) SKU4)	Measurement Antenna Pol.	Vertical
EUT Name	Notebook Computer	EUT Pol.	E2
Operation Mode	LTEB13 5M QPSK 1.24	Test Engineer	Jerry



Frequency	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1564.00	H	-64.81	-68.97	6.55	-2.39	-40.00	-24.81

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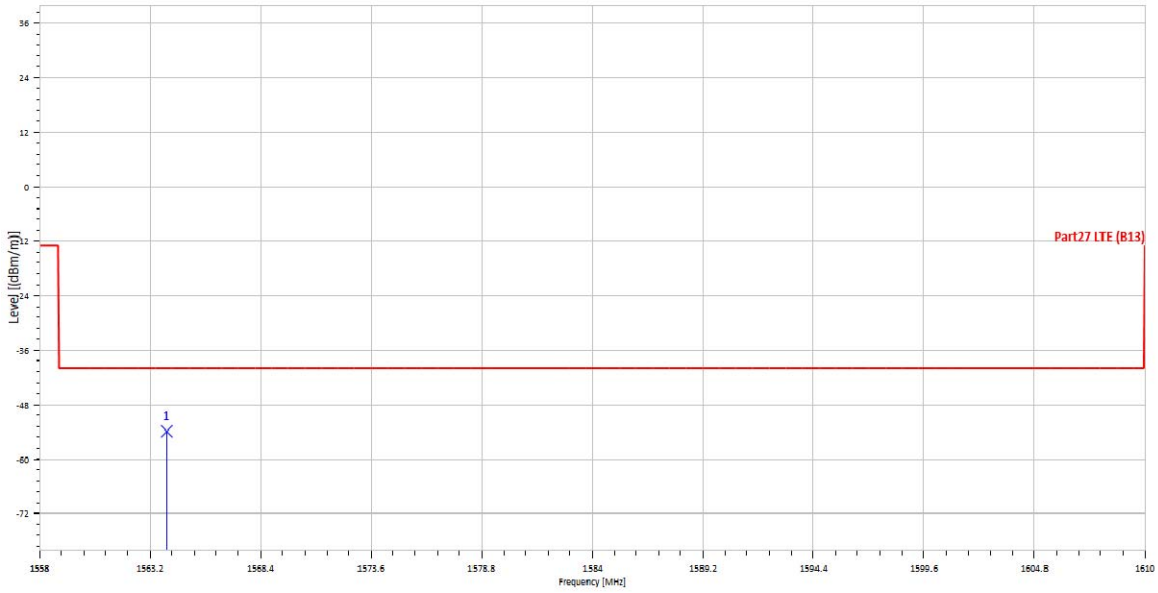
Project No.	E2/2018/70058	Fundamental Frequency	782 MHz
IMEI No.	359324080457857	Operation Band	Tx CH Mid
EUT Description		Temp. / Humi.	22.7deg_C/57RH
EUT Model	HSN-I20C [Blurr] (WWAN_L850-GL(Pandora) SKU4)	Measurement Antenna Pol.	Horizontal
EUT Name	Notebook Computer	EUT Pol.	E2
Operation Mode	LTEB13 5M QPSK 1.24	Test Engineer	Jerry



Frequency	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1564.00	H	-53.89	-58.06	6.55	-2.39	-40.00	-13.89

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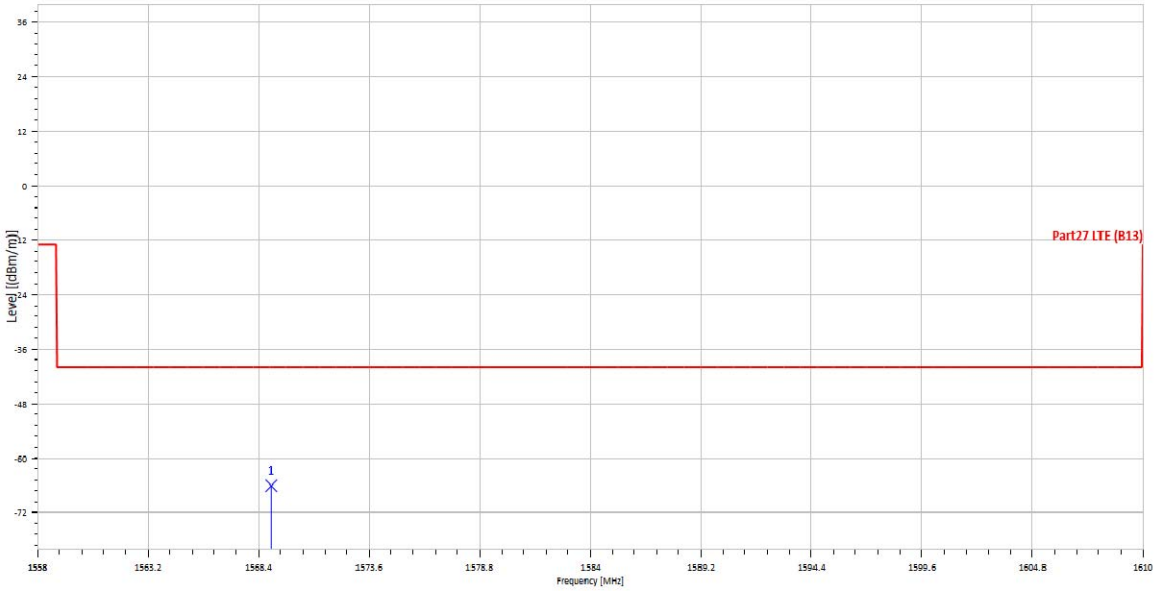
Project No.	E2/2018/70058	Fundamental Frequency	784.5 MHz
IMEI No.	359324080457857	Operation Band	Tx CH High
EUT Description		Temp. / Humi.	22.7deg_C/57RH
EUT Model	HSN-I20C [Blurr] (WWAN_L850-GL(Pandora) SKU4)	Measurement Antenna Pol.	Vertical
EUT Name	Notebook Computer	EUT Pol.	E2
Operation Mode	LTEB13 5M QPSK 1.24	Test Engineer	Jerry



Frequency	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1569.00	H	-66.09	-70.27	6.57	-2.39	-40.00	-26.09

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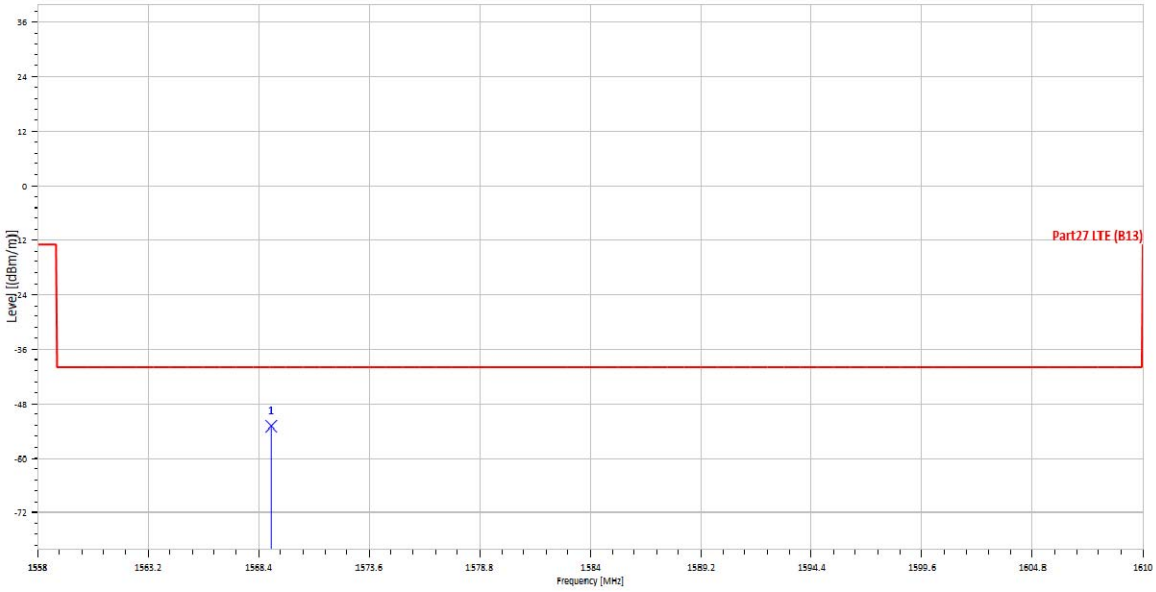
Project No.	E2/2018/70058	Fundamental Frequency	784.5 MHz
IMEI No.	359324080457857	Operation Band	Tx CH High
EUT Description		Temp. / Humi.	22.7deg_C/57RH
EUT Model	HSN-I20C [Blurr] (WWAN_L850-GL(Pandora) SKU4)	Measurement Antenna Pol.	Horizontal
EUT Name	Notebook Computer	EUT Pol.	E2
Operation Mode	LTEB13 5M QPSK 1.24	Test Engineer	Jerry



Frequency	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1569.00	H	-52.94	-57.12	6.57	-2.39	-40.00	-12.94

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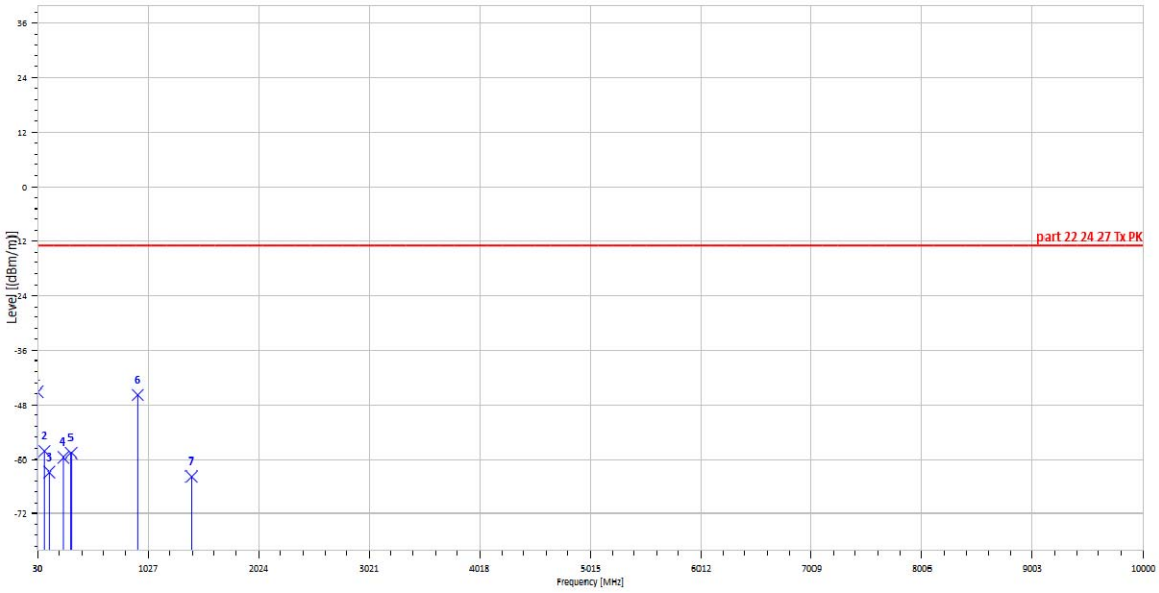
Radiated Spurious Emission Measurement Result: LTE-Band 17 (The Worst Case)

Project No.	E2/2018/70058	Fundamental Frequency	709 MHz
IMEI No.	359324080457857	Operation Band	Tx CH Low
EUT Description		Temp. / Humi.	22.7deg_C/57RH
EUT Model	HSN-I20C [Blurr] (WWAN_L850-GL(Pandora) SKU4)	Measurement Antenna Pol.	Vertical
EUT Name	Notebook Computer	EUT Pol.	E2
Operation Mode	LTEB17 10M QPSK 1.0	Test Engineer	Jerry



Frequency	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
31.94	S	-45.22	-24.61	-20.31	-0.31	-13.01	-32.21
94.02	S	-58.25	-51.30	-6.41	-0.54	-13.01	-45.24
138.64	S	-62.87	-54.47	-7.65	-0.75	-13.01	-49.86
267.65	S	-59.61	-57.12	-1.55	-0.94	-13.01	-46.60
334.58	S	-58.64	-56.13	-1.39	-1.11	-13.01	-45.63
932.10	S	-45.87	-42.11	-1.97	-1.80	-13.01	-32.86
1418.00	H	-63.86	-67.58	5.99	-2.26	-13.01	-50.85

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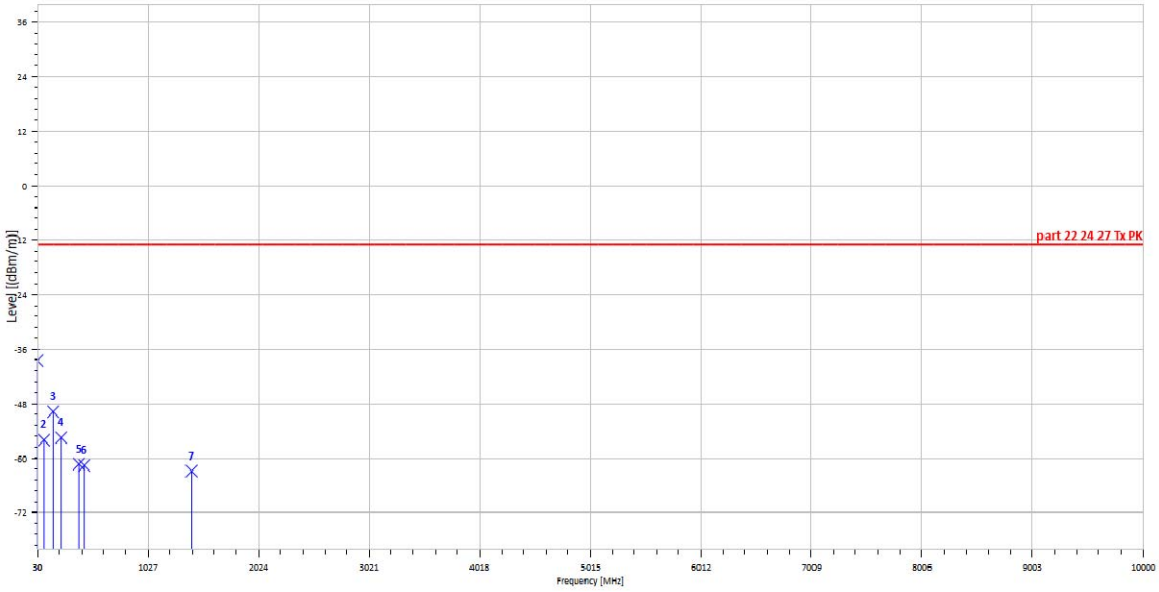
Project No.	E2/2018/70058	Fundamental Frequency	709 MHz
IMEI No.	359324080457857	Operation Band	Tx CH Low
EUT Description		Temp. / Humi.	22.7deg_C/57RH
EUT Model	HSN-I20C [Blurr] (WWAN_L850-GL(Pandora) SKU4)	Measurement Antenna Pol.	Horizontal
EUT Name	Notebook Computer	EUT Pol.	E2
Operation Mode	LTEB17 10M QPSK 1.0	Test Engineer	Jerry



Frequency	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
30.97	S	-38.53	-17.76	-20.47	-0.30	-13.01	-25.52
90.14	S	-56.01	-49.14	-6.34	-0.53	-13.01	-43.00
173.56	S	-49.78	-43.46	-5.57	-0.75	-13.01	-36.77
247.28	S	-55.48	-53.15	-1.40	-0.93	-13.01	-42.47
400.54	S	-61.28	-58.59	-1.42	-1.28	-13.01	-48.27
450.01	S	-61.60	-58.90	-1.52	-1.19	-13.01	-48.59
1418.00	H	-62.86	-66.58	5.99	-2.26	-13.01	-49.85

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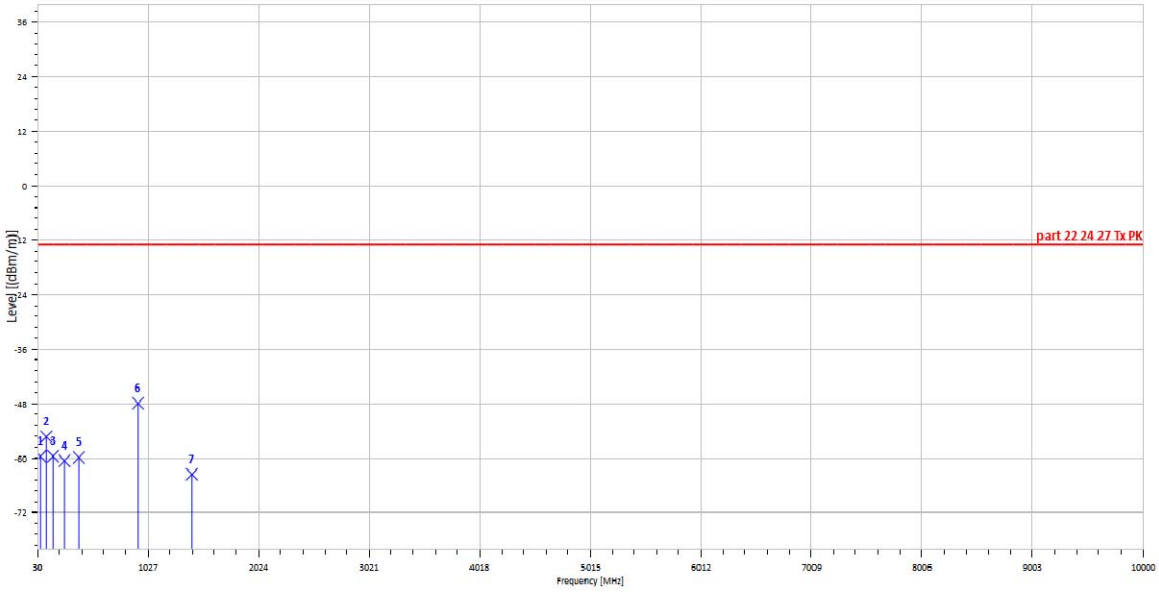
Project No.	E2/2018/70058	Fundamental Frequency	710 MHz
IMEI No.	359324080457857	Operation Band	Tx CH Mid
EUT Description	英業達	Temp. / Humi.	22.7deg_C/57RH
EUT Model	HSN-I20C [Blurr] (WWAN_L850-GL(Pandora) SKU4)	Measurement Antenna Pol.	Vertical
EUT Name	Notebook Computer	EUT Pol.	E2
Operation Mode	LTEB17 10M QPSK 1.0	Test Engineer	Jerry



Frequency	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
58.13	S	-59.61	-43.46	-15.68	-0.47	-13.01	-46.60
111.48	S	-55.28	-47.22	-7.46	-0.60	-13.01	-42.27
172.59	S	-59.59	-53.10	-5.73	-0.75	-13.01	-46.58
277.35	S	-60.59	-57.91	-1.73	-0.96	-13.01	-47.58
400.54	S	-59.88	-57.18	-1.42	-1.28	-13.01	-46.87
935.01	S	-47.92	-44.15	-1.98	-1.80	-13.01	-34.91
1420.00	H	-63.58	-67.31	6.00	-2.27	-13.01	-50.57

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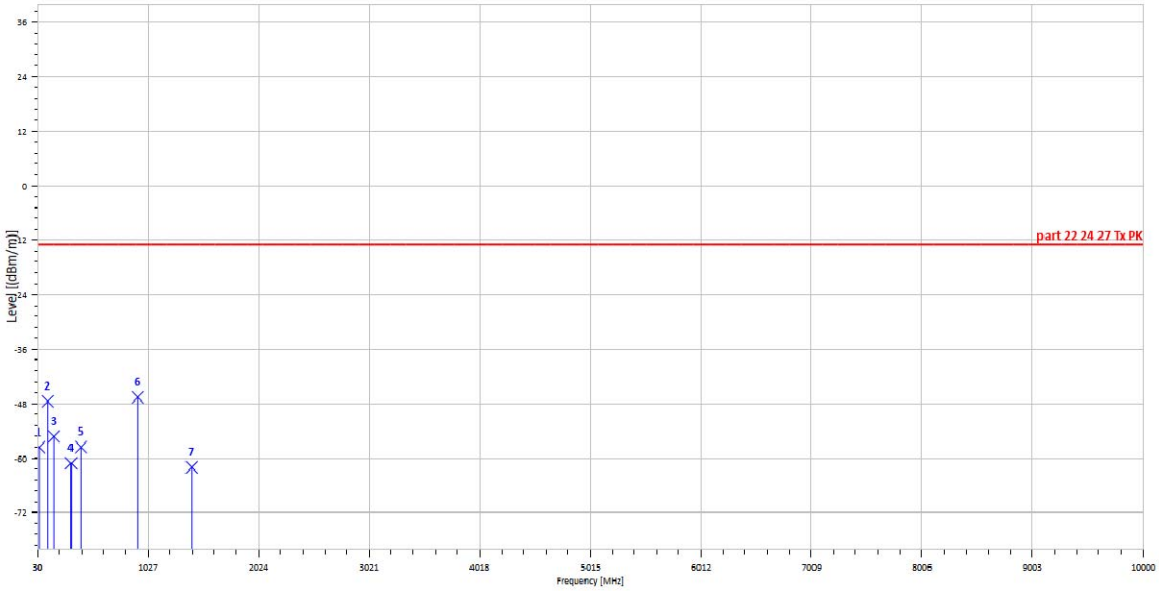
Project No.	E2/2018/70058	Fundamental Frequency	710 MHz
IMEI No.	359324080457857	Operation Band	Tx CH Mid
EUT Description		Temp. / Humi.	22.7deg_C/57RH
EUT Model	HSN-I20C [Blurr] (WWAN_L850-GL(Pandora) SKU4)	Measurement Antenna Pol.	Horizontal
EUT Name	Notebook Computer	EUT Pol.	E2
Operation Mode	LTEB17 10M QPSK 1.0	Test Engineer	Jerry



Frequency	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
47.46	S	-57.63	-39.30	-17.92	-0.41	-13.01	-44.62
124.09	S	-47.50	-39.08	-7.77	-0.65	-13.01	-34.49
180.35	S	-55.23	-50.06	-4.42	-0.75	-13.01	-42.22
334.58	S	-61.12	-58.62	-1.39	-1.11	-13.01	-48.11
420.91	S	-57.61	-54.89	-1.44	-1.27	-13.01	-44.60
932.10	S	-46.57	-42.80	-1.97	-1.80	-13.01	-33.56
1420.00	H	-62.00	-65.74	6.00	-2.27	-13.01	-48.99

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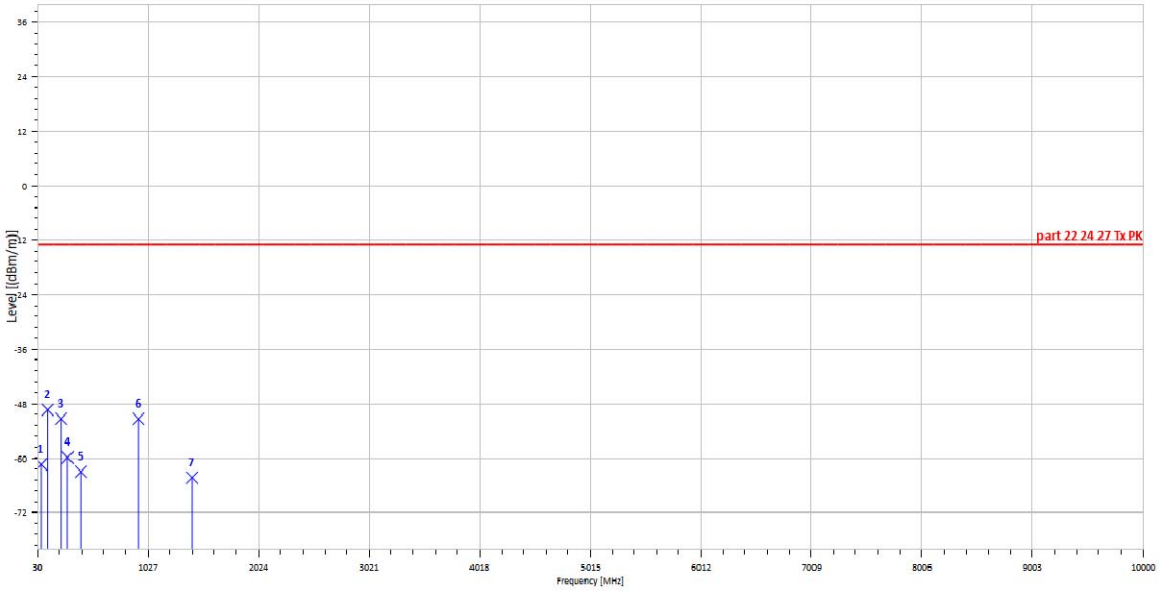
Project No.	E2/2018/70058	Fundamental Frequency	711 MHz
IMEI No.	359324080457857	Operation Band	Tx CH High
EUT Description		Temp. / Humi.	22.7deg_C/57RH
EUT Model	HSN-I20C [Blurr] (WWAN_L850-GL(Pandora) SKU4)	Measurement Antenna Pol.	Vertical
EUT Name	Notebook Computer	EUT Pol.	E2
Operation Mode	LTEB17 10M QPSK 1.0	Test Engineer	Jerry



Frequency	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
64.92	S	-61.36	-47.01	-13.87	-0.48	-13.01	-48.35
123.12	S	-49.35	-40.92	-7.78	-0.65	-13.01	-36.34
246.31	S	-51.34	-49.01	-1.41	-0.93	-13.01	-38.33
303.54	S	-59.87	-57.26	-1.58	-1.03	-13.01	-46.86
419.94	S	-63.01	-60.29	-1.44	-1.28	-13.01	-50.00
938.89	S	-51.37	-47.58	-1.98	-1.81	-13.01	-38.36
1422.00	H	-64.32	-68.06	6.01	-2.27	-13.01	-51.31

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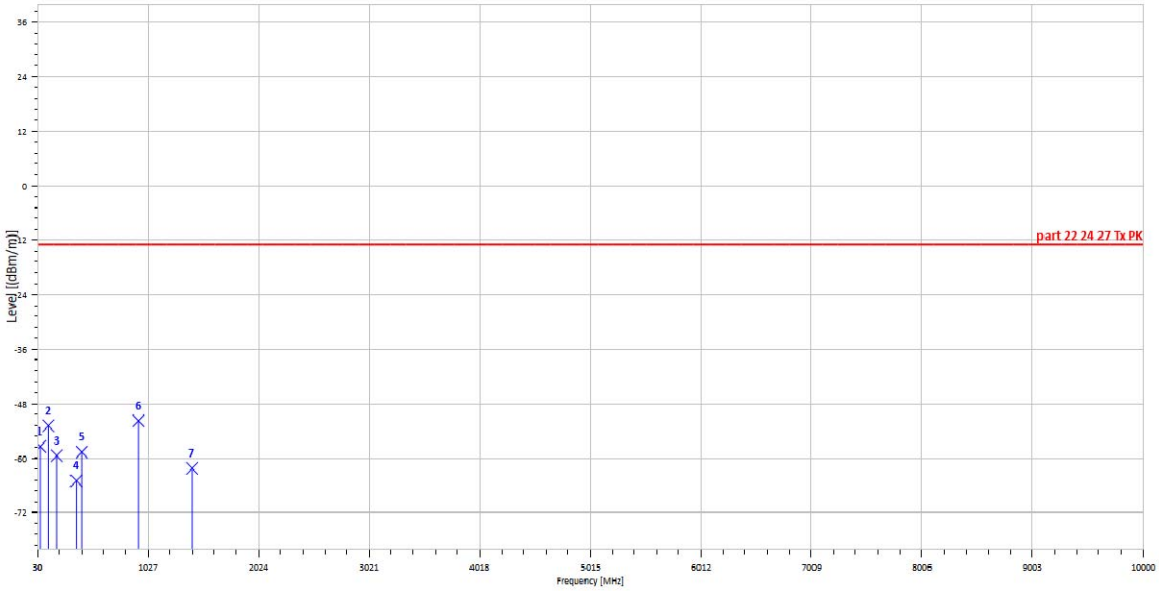
Project No.	E2/2018/70058	Fundamental Frequency	711 MHz
IMEI No.	359324080457857	Operation Band	Tx CH High
EUT Description		Temp. / Humi.	22.7deg_C/57RH
EUT Model	HSN-I20C [Blurr] (WWAN_L850-GL(Pandora) SKU4)	Measurement Antenna Pol.	Horizontal
EUT Name	Notebook Computer	EUT Pol.	E2
Operation Mode	LTEB17 10M QPSK 1.0	Test Engineer	Jerry



Frequency	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
56.19	S	-57.44	-40.85	-16.13	-0.46	-13.01	-44.43
129.91	S	-52.86	-44.46	-7.71	-0.69	-13.01	-39.85
206.54	S	-59.46	-57.34	-1.30	-0.82	-13.01	-46.45
379.20	S	-64.99	-62.50	-1.36	-1.13	-13.01	-51.98
427.70	S	-58.66	-55.96	-1.46	-1.25	-13.01	-45.65
938.89	S	-51.79	-48.00	-1.98	-1.81	-13.01	-38.78
1422.00	H	-62.24	-65.97	6.01	-2.27	-13.01	-49.23

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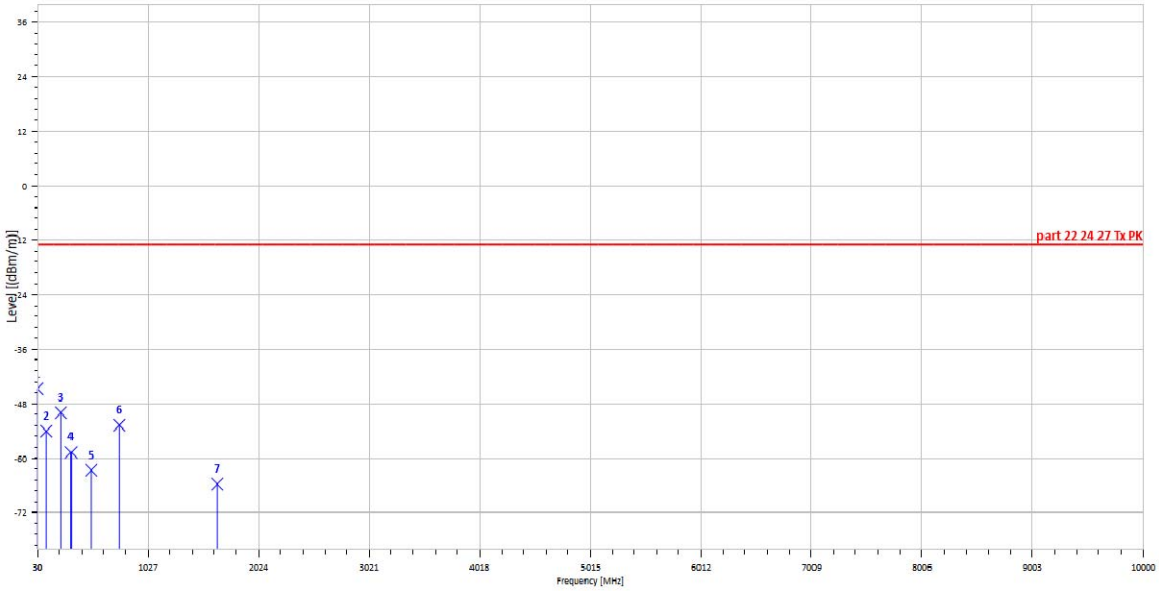
Radiated Spurious Emission Measurement Result: LTE-Band 26 (The Worst Case)

Project No.	E2/2018/70058	Fundamental Frequency	826.5 MHz
IMEI No.	359324080457857	Operation Band	Tx CH Low
EUT Description	英業達	Temp. / Humi.	22.7deg_C/57RH
EUT Model	HSN-I20C [Blurr] (WWAN_L850-GL(Pandora) SKU4)	Measurement Antenna Pol.	Vertical
EUT Name	Notebook Computer	EUT Pol.	E2
Operation Mode	LTEB26 5M QPSK 1.0	Test Engineer	Jerry



Frequency	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
30.97	S	-44.72	-23.95	-20.47	-0.30	-13.01	-31.71
110.51	S	-54.08	-46.07	-7.42	-0.59	-13.01	-41.07
244.37	S	-50.00	-47.64	-1.42	-0.93	-13.01	-36.99
334.58	S	-58.73	-56.23	-1.39	-1.11	-13.01	-45.72
515.00	S	-62.67	-59.96	-1.35	-1.36	-13.01	-49.66
772.05	S	-52.73	-48.94	-2.16	-1.63	-13.01	-39.72
1653.00	H	-65.72	-70.12	6.84	-2.44	-13.01	-52.71

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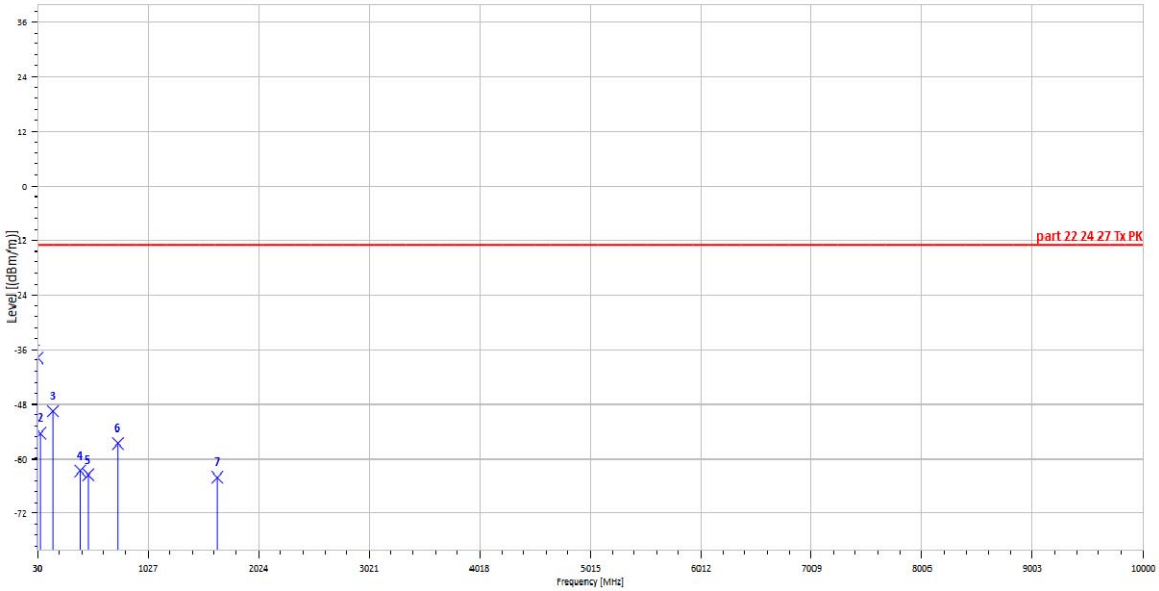
Project No.	E2/2018/70058	Fundamental Frequency	826.5 MHz
IMEI No.	359324080457857	Operation Band	Tx CH Low
EUT Description	英業達	Temp. / Humi.	22.7deg_C/57RH
EUT Model	HSN-I20C [Blurr] (WWAN_L850-GL(Pandora) SKU4)	Measurement Antenna Pol.	Horizontal
EUT Name	Notebook Computer	EUT Pol.	E2
Operation Mode	LTEB26 5M QPSK 1.0	Test Engineer	Jerry



Frequency	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
30.97	S	-37.82	-17.05	-20.47	-0.30	-13.01	-24.81
57.16	S	-54.41	-38.04	-15.90	-0.47	-13.01	-41.40
171.62	S	-49.55	-42.90	-5.90	-0.75	-13.01	-36.54
413.15	S	-62.67	-59.94	-1.43	-1.30	-13.01	-49.66
487.84	S	-63.54	-60.80	-1.37	-1.36	-13.01	-50.53
759.44	S	-56.64	-52.80	-2.28	-1.56	-13.01	-43.63
1653.00	H	-64.12	-68.52	6.84	-2.44	-13.01	-51.11

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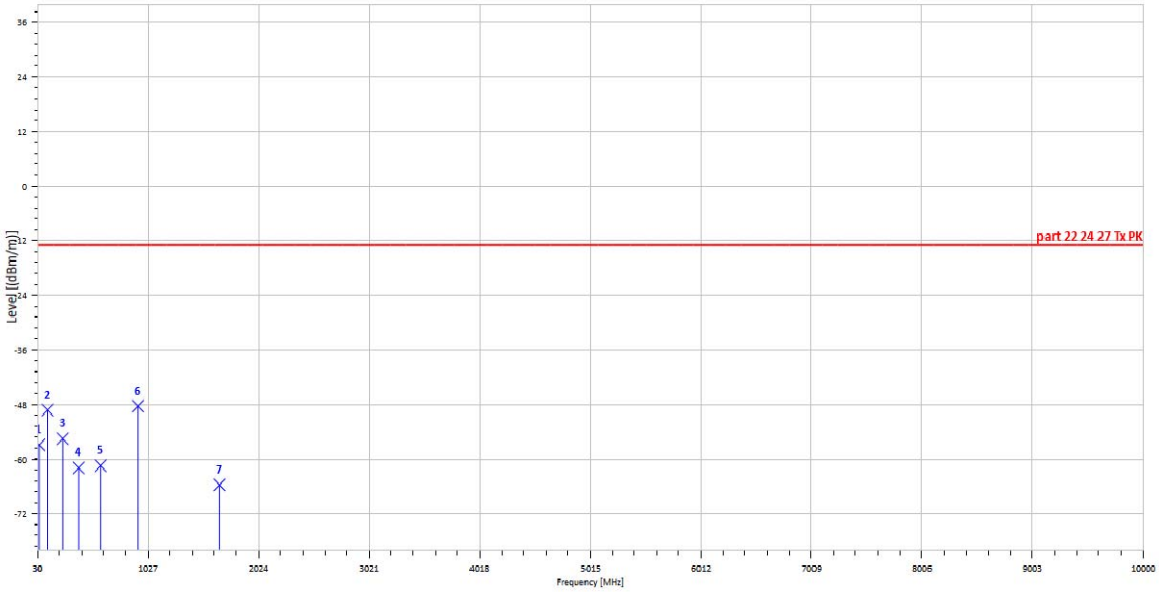
Member of SGS Group

Project No.			
IMEI No.	359324080457857	Operation Band	Tx CH Mid
EUT Description		Temp. / Humi.	22.7deg_C/57RH
EUT Model	HSN-I20C [Blurr] (WWAN_L850-GL(Pandora) SKU4)	Measurement Antenna Pol.	Vertical
EUT Name	Notebook Computer	EUT Pol.	E2
Operation Mode	LTEB26 5M QPSK 1.0	Test Engineer	Jerry



Frequency	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
46.49	S	-56.88	-38.42	-18.06	-0.41	-13.01	-43.87
122.15	S	-49.21	-40.78	-7.79	-0.64	-13.01	-36.20
261.83	S	-55.52	-53.12	-1.45	-0.94	-13.01	-42.51
399.57	S	-61.92	-59.23	-1.42	-1.28	-13.01	-48.91
600.36	S	-61.43	-57.98	-2.01	-1.45	-13.01	-48.42
934.04	S	-48.35	-44.58	-1.97	-1.80	-13.01	-35.34
1673.00	H	-65.70	-70.15	6.90	-2.45	-13.01	-52.69

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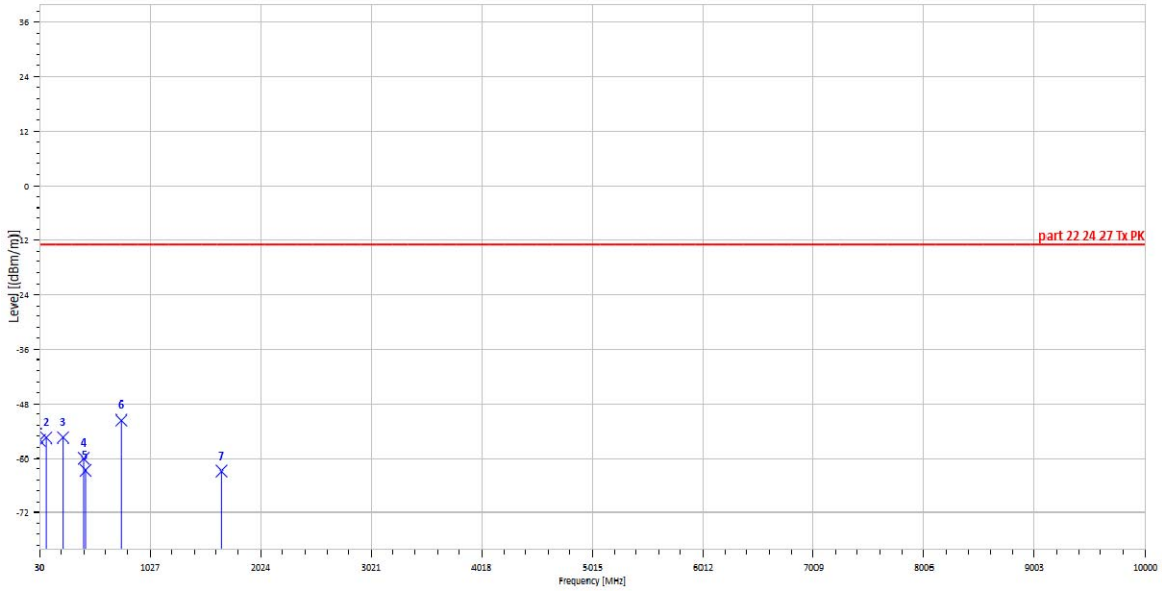
Project No.	E2/2018/70058	Fundamental Frequency	836.5 MHz
IMEI No.	359324080457857	Operation Band	Tx CH Mid
EUT Description		Temp. / Humi.	22.7deg_C/57RH
EUT Model	HSN-I20C [Blurr] (WWAN_L850-GL(Pandora) SKU4)	Measurement Antenna Pol.	Horizontal
EUT Name	Notebook Computer	EUT Pol.	E2
Operation Mode	LTEB26 5M QPSK 1.0	Test Engineer	Jerry



Frequency	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
33.88	S	-56.05	-35.75	-19.99	-0.32	-13.01	-43.04
92.08	S	-55.51	-48.60	-6.37	-0.54	-13.01	-42.50
246.31	S	-55.44	-53.11	-1.41	-0.93	-13.01	-42.43
426.73	S	-60.07	-57.36	-1.46	-1.25	-13.01	-47.06
444.19	S	-62.70	-60.00	-1.50	-1.20	-13.01	-49.69
772.05	S	-51.70	-47.91	-2.16	-1.63	-13.01	-38.69
1673.00	H	-62.86	-67.31	6.90	-2.45	-13.01	-49.85

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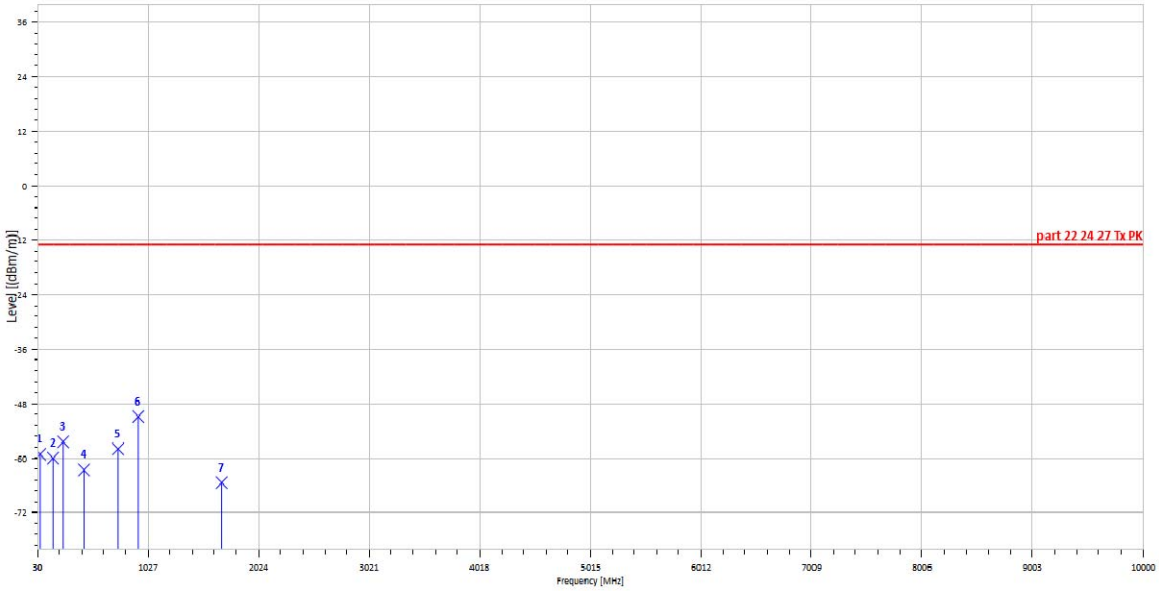
Project No.	E2/2018/70058	Fundamental Frequency	846.5 MHz
IMEI No.	359324080457857	Operation Band	Tx CH High
EUT Description		Temp. / Humi.	22.7deg_C/57RH
EUT Model	HSN-I20C [Blurr] (WWAN_L850-GL(Pandora) SKU4)	Measurement Antenna Pol.	Vertical
EUT Name	Notebook Computer	EUT Pol.	E2
Operation Mode	LTEB26 5M QPSK 1.0	Test Engineer	Jerry



Frequency	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
55.22	S	-59.17	-42.35	-16.35	-0.46	-13.01	-46.16
172.59	S	-60.02	-53.54	-5.73	-0.75	-13.01	-47.01
265.71	S	-56.42	-53.96	-1.52	-0.94	-13.01	-43.41
448.07	S	-62.60	-59.90	-1.51	-1.19	-13.01	-49.59
760.41	S	-58.00	-54.16	-2.27	-1.56	-13.01	-44.99
936.95	S	-50.87	-47.09	-1.98	-1.80	-13.01	-37.86
1693.00	H	-65.39	-69.86	6.97	-2.49	-13.01	-52.38

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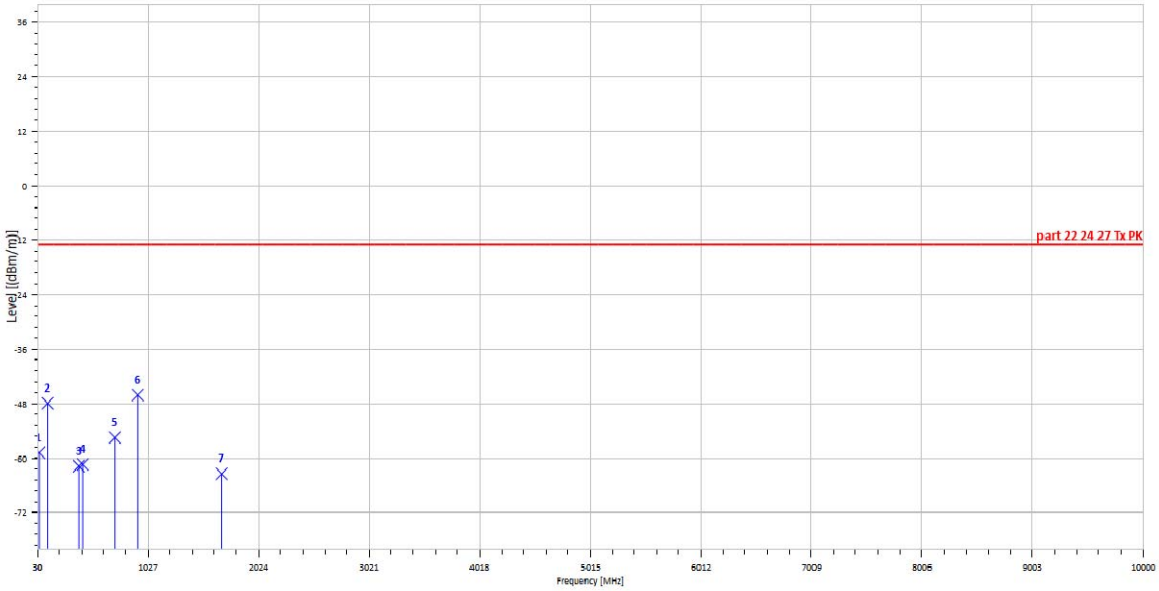
Project No.	E2/2018/70058	Fundamental Frequency	846.5 MHz
IMEI No.	359324080457857	Operation Band	Tx CH High
EUT Description		Temp. / Humi.	22.7deg_C/57RH
EUT Model	HSN-I20C [Blurr] (WWAN_L850-GL(Pandora) SKU4)	Measurement Antenna Pol.	Horizontal
EUT Name	Notebook Computer	EUT Pol.	E2
Operation Mode	LTEB26 5M QPSK 1.0	Test Engineer	Jerry



Frequency	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
47.46	S	-58.79	-40.46	-17.92	-0.41	-13.01	-45.78
123.12	S	-47.92	-39.50	-7.78	-0.65	-13.01	-34.91
400.54	S	-61.75	-59.05	-1.42	-1.28	-13.01	-48.74
436.43	S	-61.39	-58.69	-1.48	-1.22	-13.01	-48.38
731.31	S	-55.46	-51.90	-2.11	-1.45	-13.01	-42.45
932.10	S	-46.07	-42.31	-1.97	-1.80	-13.01	-33.06
1693.00	H	-63.47	-67.95	6.97	-2.49	-13.01	-50.46

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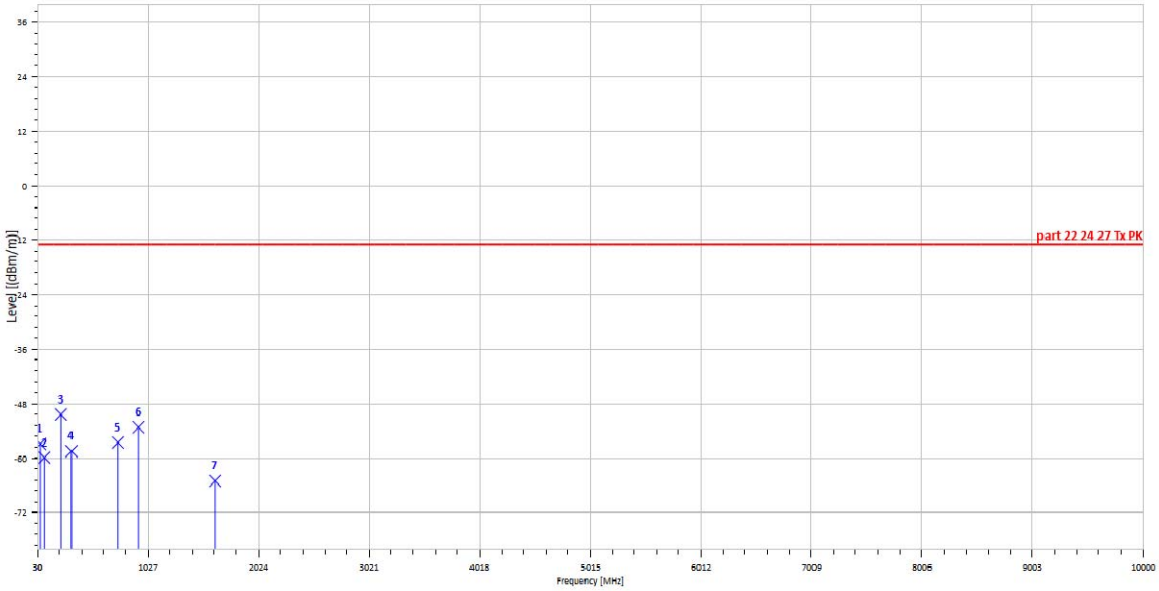
Radiated Spurious Emission Measurement Result: LTE-Band 26 for Part 90S (The Worst Case)

Project No.	E2/2018/70058	Fundamental Frequency	816.5 MHz
IMEI No.	359324080457857	Operation Band	Tx CH Low
EUT Description		Temp. / Humi.	22.7deg_C/57RH
EUT Model	HSN-I20C [Blurr] (WWAN_L850-GL(Pandora) SKU4)	Measurement Antenna Pol.	Vertical
EUT Name	Notebook Computer	EUT Pol.	E2
Operation Mode	LTEB26 5M QPSK 1.24	Test Engineer	Jerry



Frequency	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
56.19	S	-56.88	-40.29	-16.13	-0.46	-13.01	-43.87
93.44	S	-59.90	-52.96	-6.40	-0.54	-13.01	-46.89
244.37	S	-50.38	-48.03	-1.42	-0.93	-13.01	-37.37
337.49	S	-58.48	-55.99	-1.38	-1.11	-13.01	-45.47
759.44	S	-56.55	-52.71	-2.28	-1.56	-13.01	-43.54
938.89	S	-53.19	-49.40	-1.98	-1.81	-13.01	-40.18
1633.00	H	-65.00	-69.34	6.78	-2.43	-13.01	-51.99

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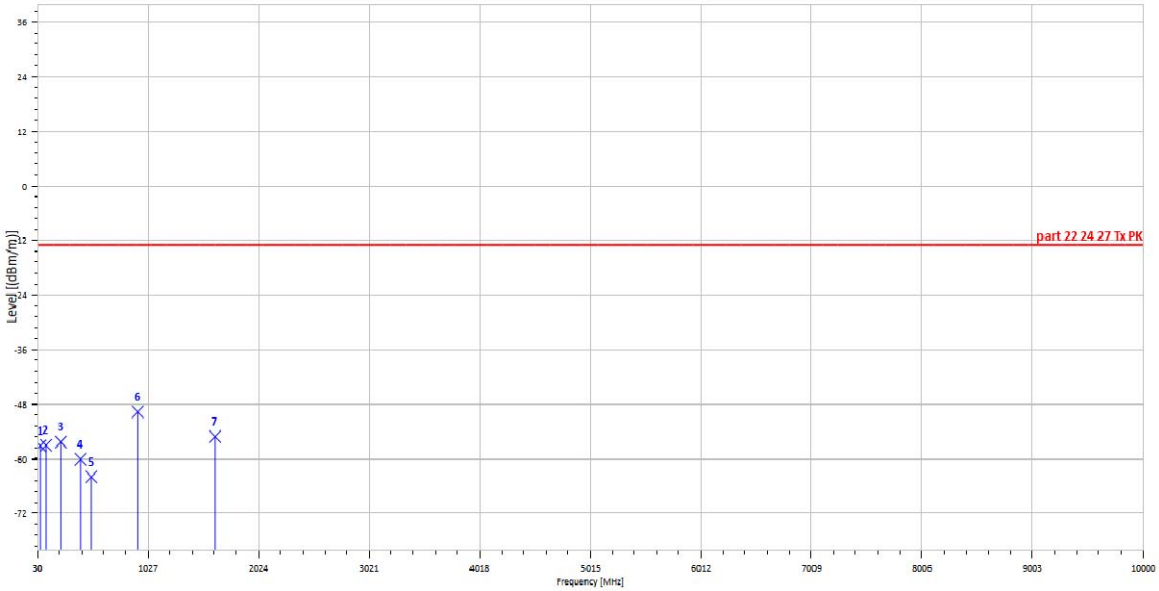
Project No.	E2/2018/70058	Fundamental Frequency	816.5 MHz
IMEI No.	359324080457857	Operation Band	Tx CH Low
EUT Description		Temp. / Humi.	22.7deg_C/57RH
EUT Model	HSN-I20C [Blurr] (WWAN_L850-GL(Pandora) SKU4)	Measurement Antenna Pol.	Horizontal
EUT Name	Notebook Computer	EUT Pol.	E2
Operation Mode	LTEB26 5M QPSK 1.24	Test Engineer	Jerry



Frequency	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
57.16	S	-57.16	-40.79	-15.90	-0.47	-13.01	-44.15
108.57	S	-57.04	-49.19	-7.27	-0.58	-13.01	-44.03
244.37	S	-56.31	-53.96	-1.42	-0.93	-13.01	-43.30
416.06	S	-60.12	-57.39	-1.44	-1.29	-13.01	-47.11
515.00	S	-64.00	-61.29	-1.35	-1.36	-13.01	-50.99
932.10	S	-49.67	-45.90	-1.97	-1.80	-13.01	-36.66
1633.00	H	-55.14	-59.48	6.78	-2.43	-13.01	-42.13

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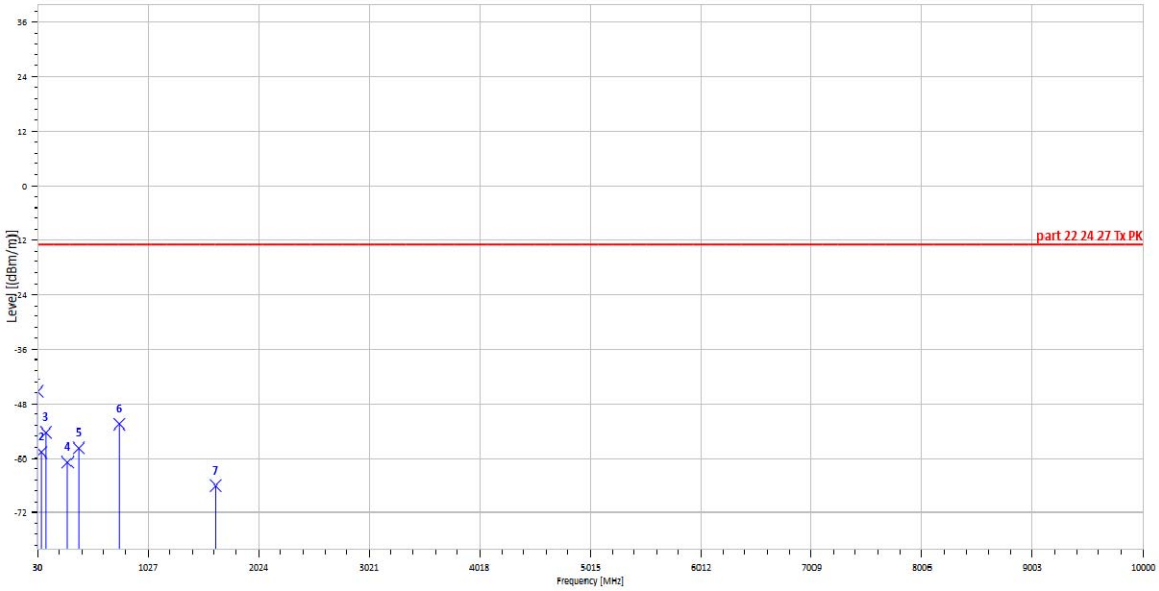
Project No.	E2/2018/70058	Fundamental Frequency	819 MHz
IMEI No.	359324080457857	Operation Band	Tx CH Mid
EUT Description		Temp. / Humi.	22.7deg_C/57RH
EUT Model	HSN-I20C [Blurr] (WWAN_L850-GL(Pandora) SKU4)	Measurement Antenna Pol.	Vertical
EUT Name	Notebook Computer	EUT Pol.	E2
Operation Mode	LTEB26 5M QPSK 1.24	Test Engineer	Jerry



Frequency	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
31.94	S	-45.34	-24.72	-20.31	-0.31	-13.01	-32.33
65.89	S	-58.72	-44.63	-13.60	-0.49	-13.01	-45.71
107.60	S	-54.36	-46.60	-7.19	-0.58	-13.01	-41.35
303.54	S	-60.93	-58.32	-1.58	-1.03	-13.01	-47.92
400.54	S	-57.80	-55.10	-1.42	-1.28	-13.01	-44.79
772.05	S	-52.49	-48.70	-2.16	-1.63	-13.01	-39.48
1638.00	H	-66.07	-70.43	6.79	-2.44	-13.01	-53.06

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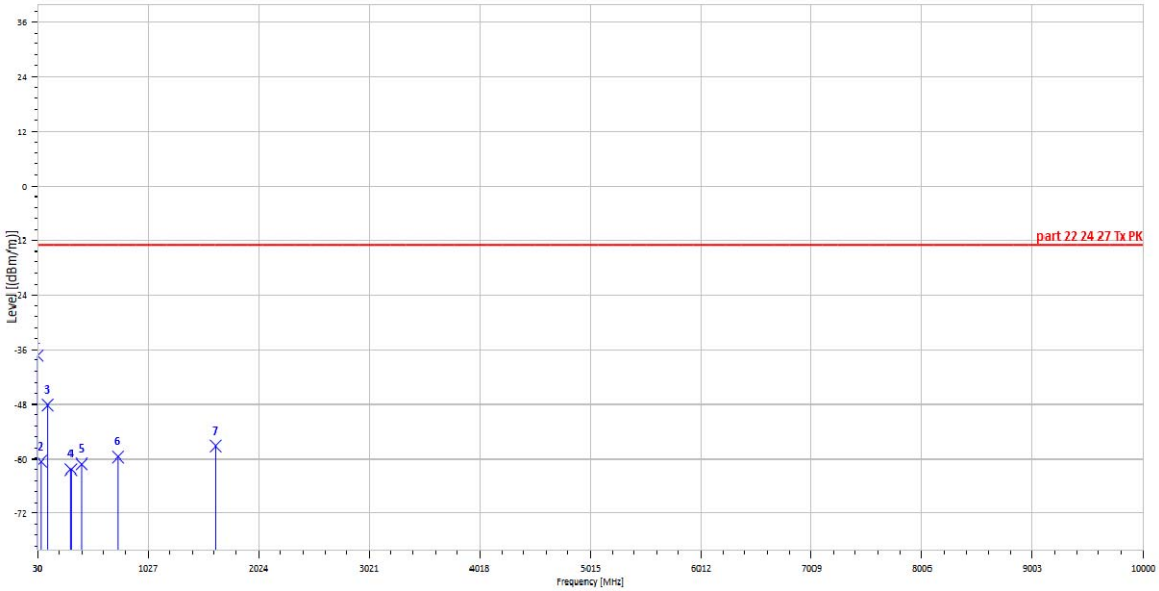
Project No.	E2/2018/70058	Fundamental Frequency	819 MHz
IMEI No.	359324080457857	Operation Band	Tx CH Mid
EUT Description		Temp. / Humi.	22.7deg_C/57RH
EUT Model	HSN-I20C [Blurr] (WWAN_L850-GL(Pandora) SKU4)	Measurement Antenna Pol.	Horizontal
EUT Name	Notebook Computer	EUT Pol.	E2
Operation Mode	LTEB26 5M QPSK 1.24	Test Engineer	Jerry



Frequency	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
30.97	S	-37.34	-16.57	-20.47	-0.30	-13.01	-24.33
63.95	S	-60.57	-45.95	-14.14	-0.48	-13.01	-47.56
123.12	S	-48.22	-39.80	-7.78	-0.65	-13.01	-35.21
332.64	S	-62.36	-59.84	-1.40	-1.12	-13.01	-49.35
426.73	S	-61.19	-58.49	-1.46	-1.25	-13.01	-48.18
760.41	S	-59.59	-55.76	-2.27	-1.56	-13.01	-46.58
1638.00	H	-57.21	-61.56	6.79	-2.44	-13.01	-44.20

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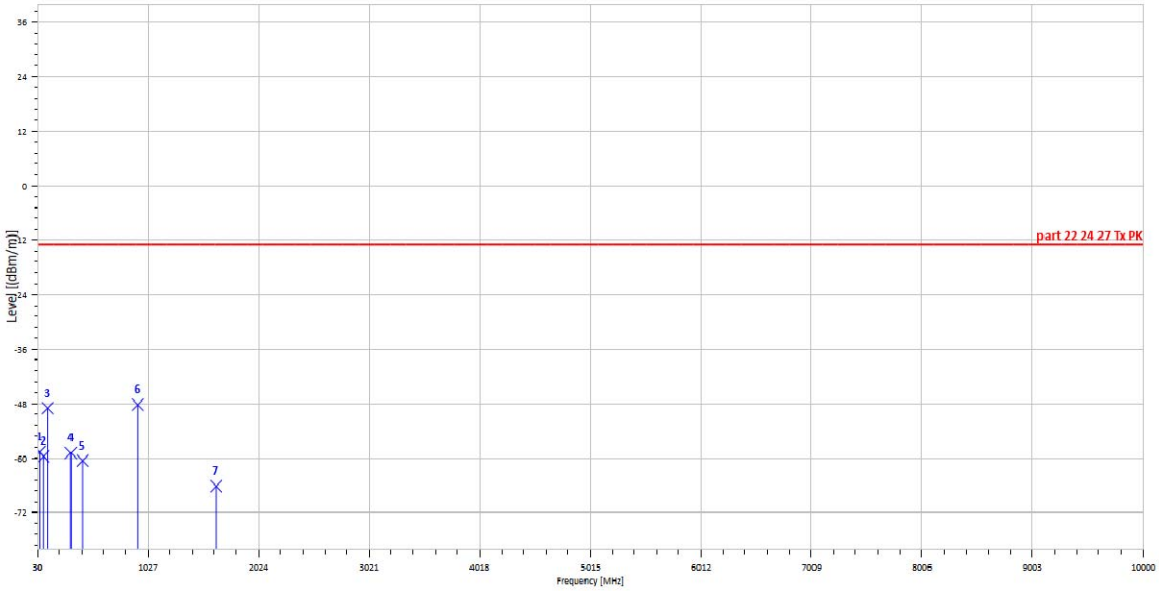
Project No.	E2/2018/70058	Fundamental Frequency	821.5 MHz
IMEI No.	359324080457857	Operation Band	Tx CH High
EUT Description		Temp. / Humi.	22.7deg_C/57RH
EUT Model	HSN-I20C [Blurr] (WWAN_L850-GL(Pandora) SKU4)	Measurement Antenna Pol.	Vertical
EUT Name	Notebook Computer	EUT Pol.	E2
Operation Mode	LTEB26 5M QPSK 1.24	Test Engineer	Jerry



Frequency	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
51.34	S	-58.65	-40.96	-17.25	-0.44	-13.01	-45.64
85.29	S	-59.63	-51.55	-7.55	-0.52	-13.01	-46.62
123.12	S	-49.01	-40.59	-7.78	-0.65	-13.01	-36.00
331.67	S	-58.86	-56.33	-1.41	-1.12	-13.01	-45.85
435.46	S	-60.59	-57.90	-1.48	-1.22	-13.01	-47.58
932.10	S	-48.24	-44.48	-1.97	-1.80	-13.01	-35.23
1643.00	H	-66.20	-70.57	6.81	-2.44	-13.01	-53.19

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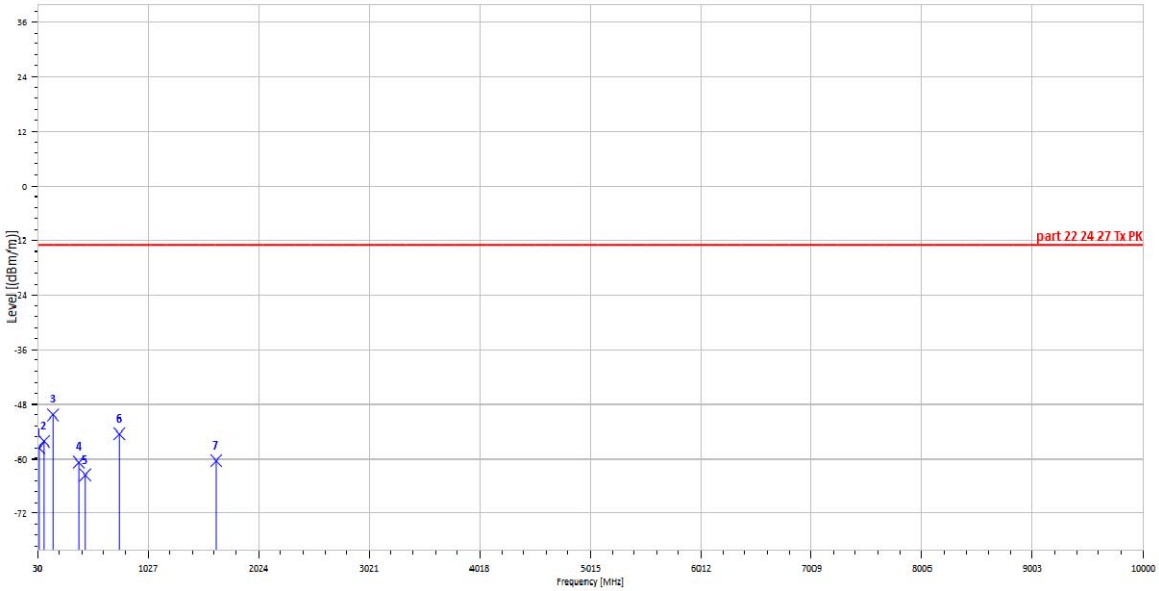
Project No.	E2/2018/70058	Fundamental Frequency	821.5 MHz
IMEI No.	359324080457857	Operation Band	Tx CH High
EUT Description		Temp. / Humi.	22.7deg_C/57RH
EUT Model	HSN-I20C [Blurr] (WWAN_L850-GL(Pandora) SKU4)	Measurement Antenna Pol.	Horizontal
EUT Name	Notebook Computer	EUT Pol.	E2
Operation Mode	LTEB26 5M QPSK 1.24	Test Engineer	Jerry



Frequency	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
46.49	S	-57.62	-39.15	-18.06	-0.41	-13.01	-44.61
90.14	S	-56.16	-49.29	-6.34	-0.53	-13.01	-43.15
172.59	S	-50.33	-43.84	-5.73	-0.75	-13.01	-37.32
400.54	S	-60.78	-58.08	-1.42	-1.28	-13.01	-47.77
459.71	S	-63.58	-60.86	-1.47	-1.24	-13.01	-50.57
772.05	S	-54.54	-50.75	-2.16	-1.63	-13.01	-41.53
1643.00	H	-60.44	-64.81	6.81	-2.44	-13.01	-47.43

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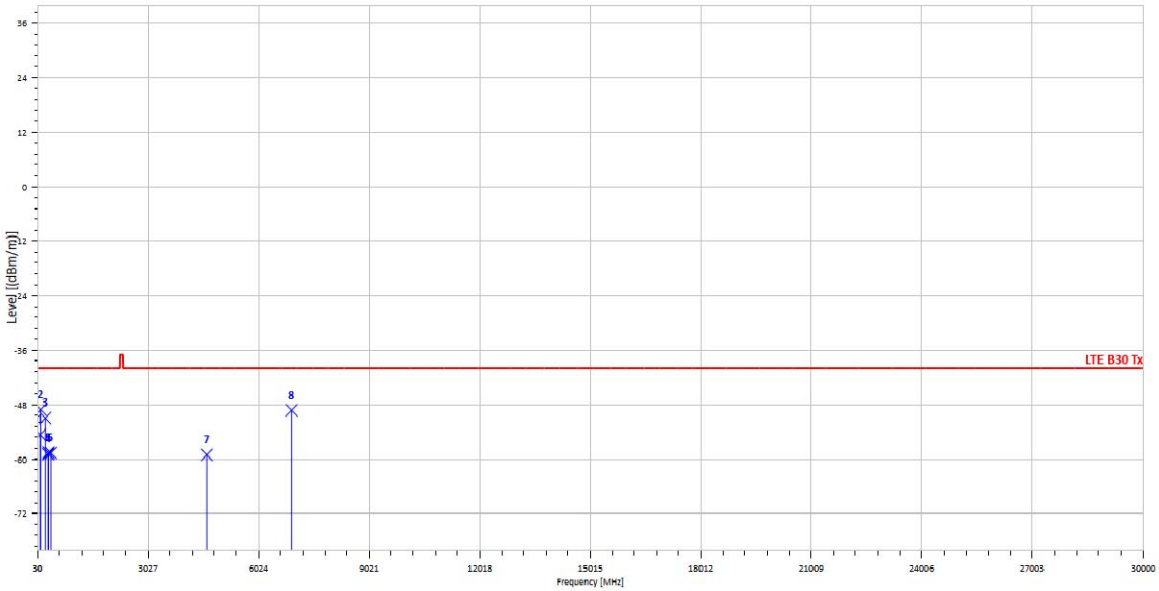
Radiated Spurious Emission Measurement Result: LTE-Band 30 (The Worst Case)

Project No.	E2/2018/70058	Fundamental Frequency	2310 MHz
IMEI No.	359324080457857	Operation Band	Tx CH Mid
EUT Description		Temp. / Humi.	22.7deg_C/57RH
EUT Model	HSN-I20C [Blurr] (WWAN_L850-GL(Pandora) SKU4)	Measurement Antenna Pol.	Vertical
EUT Name	Notebook Computer	EUT Pol.	E2
Operation Mode	LTEB30 10M QPSK 1.0	Test Engineer	Jerry



Frequency	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
109.54	S	-54.64	-48.84	-5.21	-0.59	-40.00	-14.64
122.15	S	-49.07	-42.79	-5.64	-0.64	-40.00	-9.07
247.28	S	-50.97	-50.79	0.75	-0.93	-40.00	-10.97
322.94	S	-58.89	-58.46	0.69	-1.12	-40.00	-18.89
334.58	S	-58.52	-58.16	0.75	-1.11	-40.00	-18.52
399.57	S	-58.62	-58.07	0.73	-1.28	-40.00	-18.62
4620.00	H	-59.03	-67.46	12.63	-4.20	-40.00	-19.03
6930.00	H	-49.24	-55.63	11.56	-5.17	-40.00	-9.24

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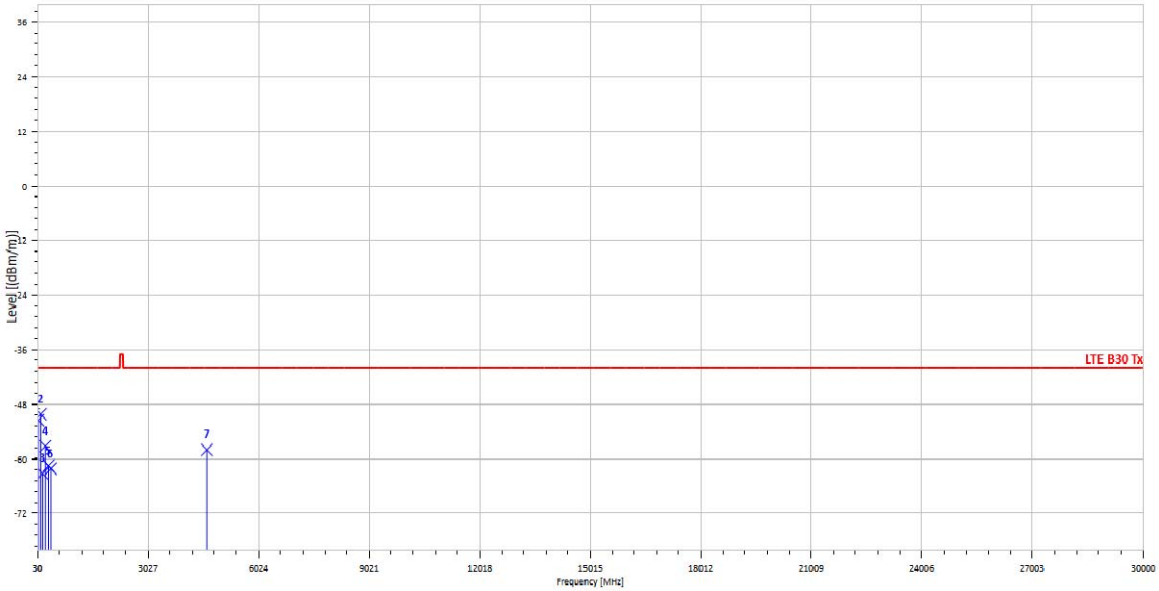
Project No.	E2/2018/70058	Fundamental Frequency	2310 MHz
IMEI No.	359324080457857	Operation Band	Tx CH Mid
EUT Description		Temp. / Humi.	22.7deg_C/57RH
EUT Model	HSN-I20C [Blurr] (WWAN_L850-GL(Pandora) SKU4)	Measurement Antenna Pol.	Horizontal
EUT Name	Notebook Computer	EUT Pol.	E2
Operation Mode	LTEB30 10M QPSK 1.0	Test Engineer	Jerry



Frequency	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
56.19	S	-51.53	-37.09	-13.98	-0.46	-40.00	-11.53
122.15	S	-50.18	-43.90	-5.64	-0.64	-40.00	-10.18
173.56	S	-63.28	-59.11	-3.42	-0.75	-40.00	-23.28
246.31	S	-57.25	-57.06	0.74	-0.93	-40.00	-17.25
335.55	S	-61.50	-61.15	0.76	-1.11	-40.00	-21.50
399.57	S	-62.18	-61.63	0.73	-1.28	-40.00	-22.18
4620.00	H	-58.05	-66.48	12.63	-4.20	-40.00	-18.05

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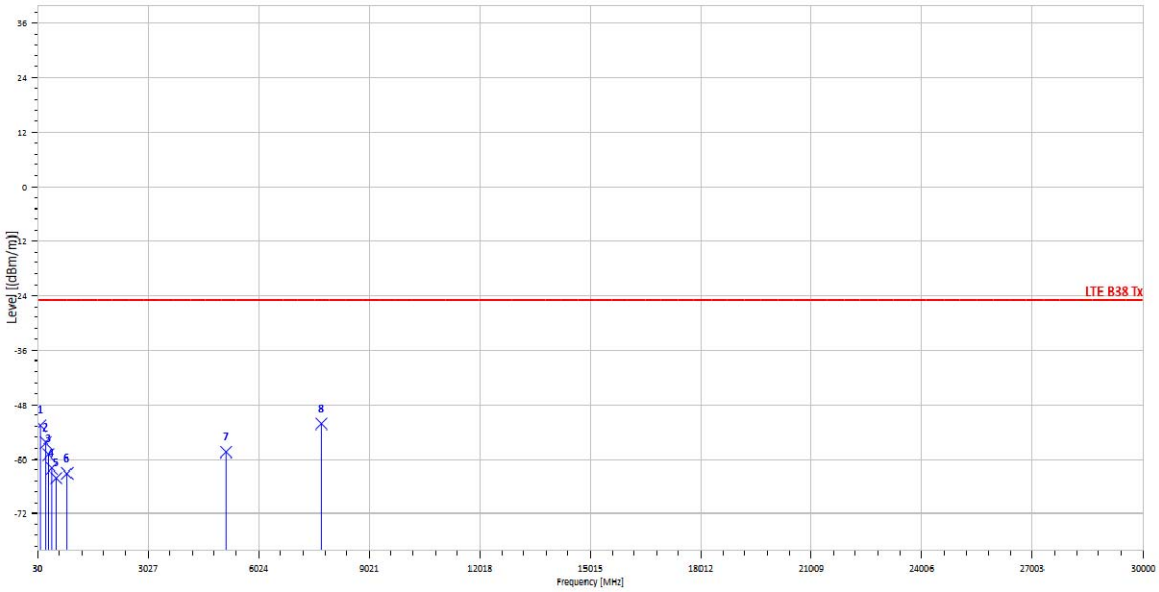
Radiated Spurious Emission Measurement Result: LTE-Band 38 (The Worst Case)

Project No.	E2/2018/70058	Fundamental Frequency	2575 MHz
IMEI No.	359324080457857	Operation Band	Tx CH Low
EUT Description	英業達	Temp. / Humi.	22.7deg_C/57RH
EUT Model	HSN-I20C [Blurr] (WWAN_L850-GL(Pandora) SKU4)	Measurement Antenna Pol.	Vertical
EUT Name	Notebook Computer	EUT Pol.	E2
Operation Mode	LTEB38 10M QPSK 1.49	Test Engineer	Jerry



Frequency	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
110.51	S	-52.61	-46.74	-5.27	-0.59	-25.00	-27.61
257.95	S	-56.36	-56.16	0.74	-0.94	-25.00	-31.36
332.64	S	-58.97	-58.59	0.74	-1.12	-25.00	-33.97
424.79	S	-61.99	-61.44	0.70	-1.26	-25.00	-36.99
547.01	S	-64.19	-63.64	0.76	-1.31	-25.00	-39.19
839.95	S	-63.17	-61.75	0.20	-1.62	-25.00	-38.17
5150.00	H	-58.43	-66.48	12.52	-4.47	-25.00	-33.43
7725.00	H	-52.18	-57.47	10.86	-5.56	-25.00	-27.18

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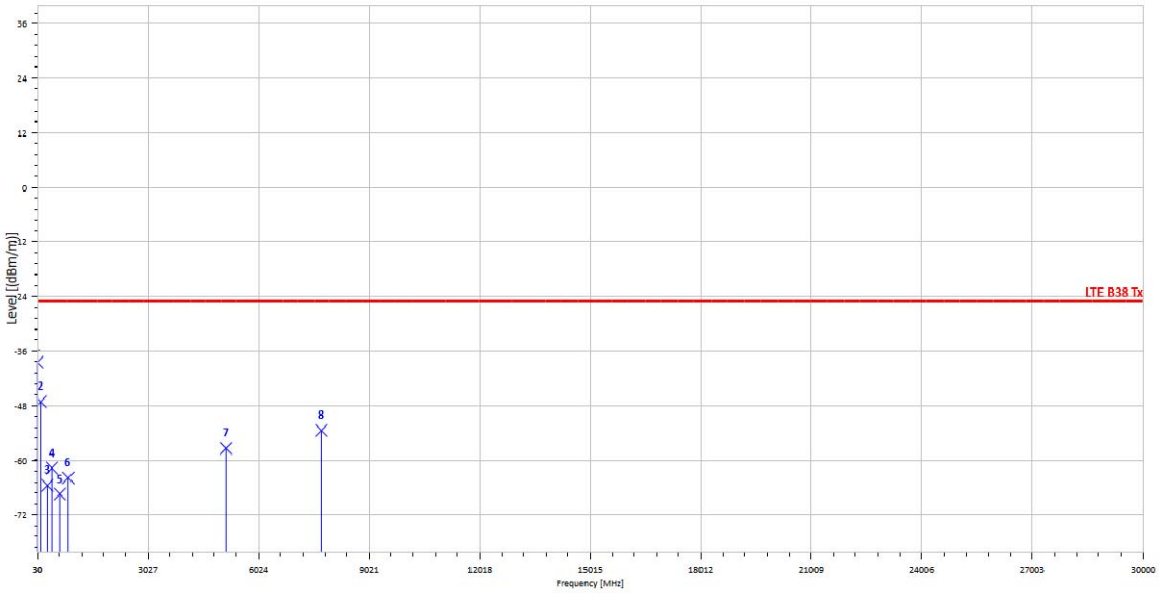
Project No.	E2/2018/70058	Fundamental Frequency	2575 MHz
IMEI No.	359324080457857	Operation Band	Tx CH Low
EUT Description	英業達	Temp. / Humi.	22.7deg_C/57RH
EUT Model	HSN-I20C [Blurr] (WWAN_L850-GL(Pandora) SKU4)	Measurement Antenna Pol.	Horizontal
EUT Name	Notebook Computer	EUT Pol.	E2
Operation Mode	LTEB38 10M QPSK 1.49	Test Engineer	Jerry



Frequency	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
30.97	S	-38.49	-19.86	-18.32	-0.30	-25.00	-13.49
122.15	S	-47.14	-40.86	-5.64	-0.64	-25.00	-22.14
303.54	S	-65.53	-65.07	0.57	-1.03	-25.00	-40.53
428.67	S	-61.71	-61.16	0.69	-1.24	-25.00	-36.71
646.92	S	-67.41	-66.22	0.24	-1.43	-25.00	-42.41
869.05	S	-63.87	-62.36	0.21	-1.72	-25.00	-38.87
5150.00	H	-57.36	-65.41	12.52	-4.47	-25.00	-32.36
7725.00	H	-53.48	-58.77	10.86	-5.56	-25.00	-28.48

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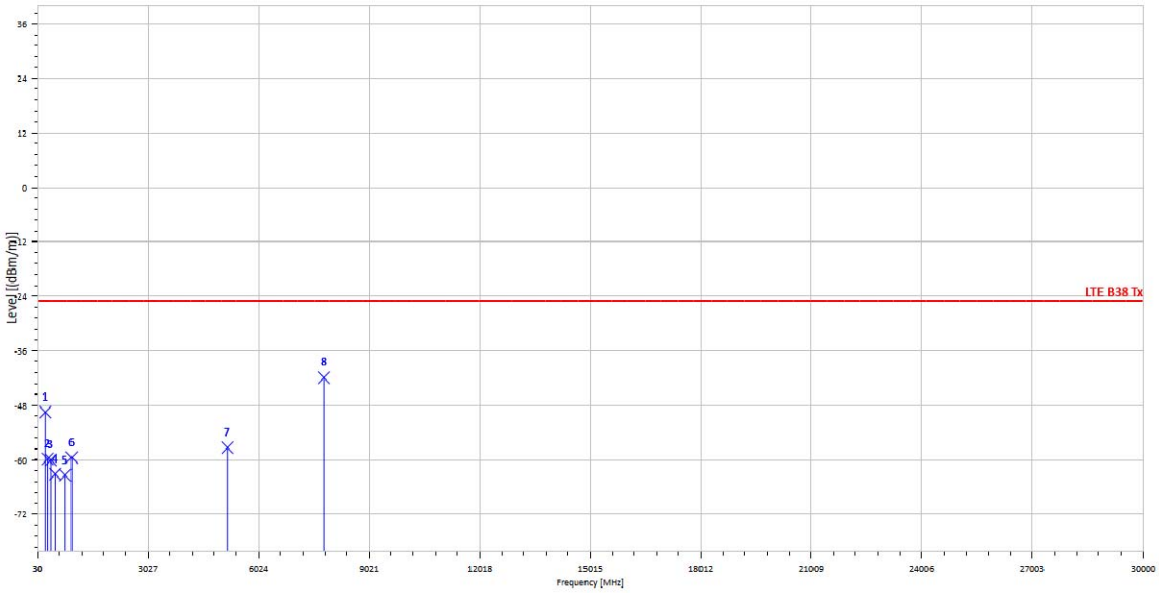
Project No.	E2/2018/70058	Fundamental Frequency	2595 MHz
IMEI No.	359324080457857	Operation Band	Tx CH Mid
EUT Description	英業達	Temp. / Humi.	22.7deg_C/57RH
EUT Model	HSN-I20C [Blurr] (WWAN_L850-GL(Pandora) SKU4)	Measurement Antenna Pol.	Vertical
EUT Name	Notebook Computer	EUT Pol.	E2
Operation Mode	LTEB38 10M QPSK 1.49	Test Engineer	Jerry



Frequency	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
247.28	S	-49.55	-49.37	0.75	-0.93	-25.00	-24.55
309.36	S	-59.80	-59.36	0.61	-1.06	-25.00	-34.80
399.57	S	-60.02	-59.48	0.73	-1.28	-25.00	-35.02
517.91	S	-63.14	-62.59	0.80	-1.35	-25.00	-38.14
787.57	S	-63.36	-61.89	0.13	-1.60	-25.00	-38.36
959.26	S	-59.48	-57.82	0.20	-1.86	-25.00	-34.48
5190.00	H	-57.31	-65.39	12.55	-4.47	-25.00	-32.31
7795.00	H	-41.90	-46.97	10.84	-5.77	-25.00	-16.90

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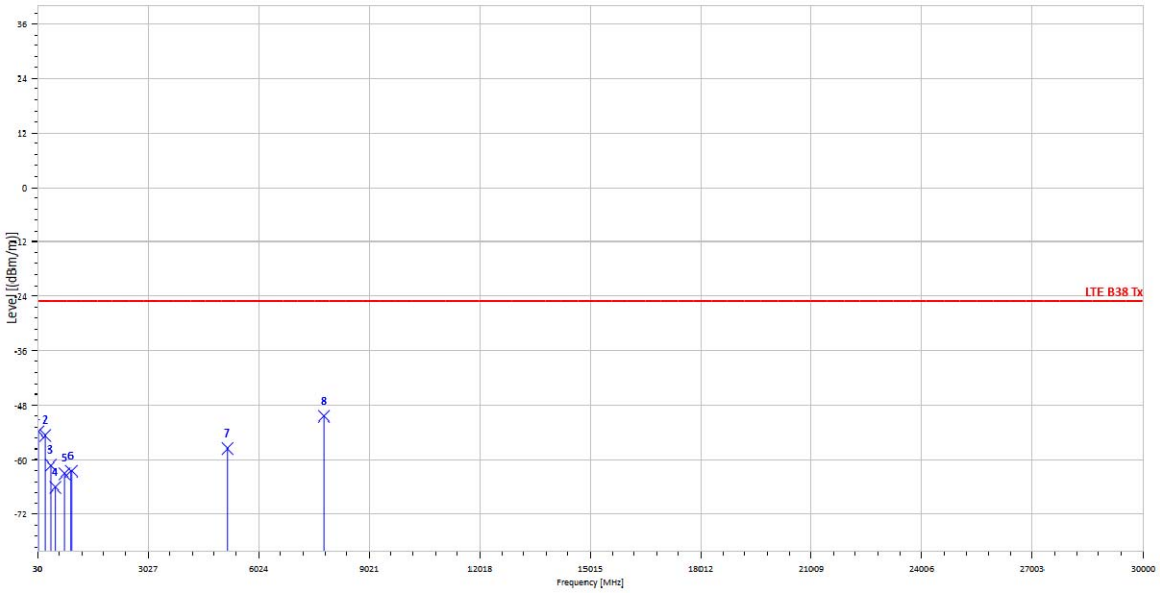
Project No.	E2/2018/70058	Fundamental Frequency	2595 MHz
IMEI No.	359324080457857	Operation Band	Tx CH Mid
EUT Description	英業達	Temp. / Humi.	22.7deg_C/57RH
EUT Model	HSN-I20C [Blurr] (WWAN_L850-GL(Pandora) SKU4)	Measurement Antenna Pol.	Horizontal
EUT Name	Notebook Computer	EUT Pol.	E2
Operation Mode	LTEB38 10M QPSK 1.49	Test Engineer	Jerry



Frequency	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
56.19	S	-53.81	-39.36	-13.98	-0.46	-25.00	-28.81
244.37	S	-54.65	-54.45	0.72	-0.93	-25.00	-29.65
399.57	S	-61.22	-60.67	0.73	-1.28	-25.00	-36.22
522.76	S	-66.03	-65.50	0.80	-1.33	-25.00	-41.03
775.93	S	-63.05	-61.43	0.02	-1.63	-25.00	-38.05
951.50	S	-62.45	-60.74	0.15	-1.86	-25.00	-37.45
5190.00	H	-57.51	-65.60	12.55	-4.47	-25.00	-32.51
7795.00	H	-50.37	-55.44	10.84	-5.77	-25.00	-25.37

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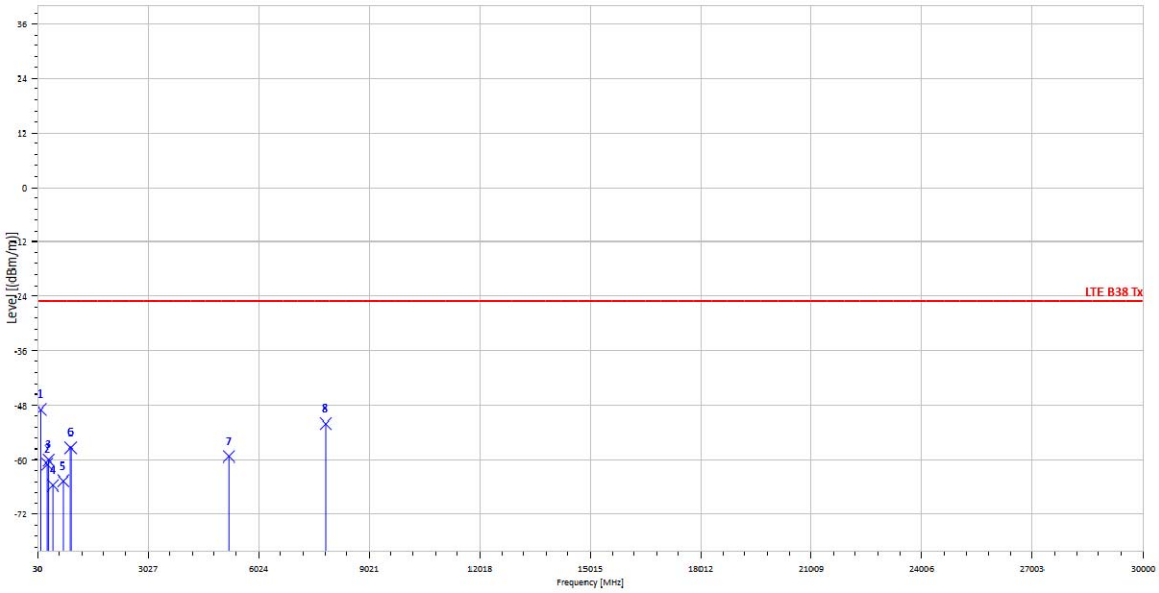
Project No.	E2/2018/70058	Fundamental Frequency	2615 MHz
IMEI No.	359324080457857	Operation Band	Tx CH High
EUT Description	英業達	Temp. / Humi.	22.7deg_C/57RH
EUT Model	HSN-I20C [Blurr] (WWAN_L850-GL(Pandora) SKU4)	Measurement Antenna Pol.	Vertical
EUT Name	Notebook Computer	EUT Pol.	E2
Operation Mode	LTEB38 10M QPSK 1.49	Test Engineer	Jerry



Frequency	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
122.15	S	-48.95	-42.66	-5.64	-0.64	-25.00	-23.95
298.69	S	-60.97	-60.50	0.54	-1.02	-25.00	-35.97
338.46	S	-60.04	-59.71	0.77	-1.11	-25.00	-35.04
456.80	S	-65.62	-65.06	0.66	-1.23	-25.00	-40.62
743.92	S	-64.67	-63.06	-0.13	-1.48	-25.00	-39.67
932.10	S	-57.34	-55.72	0.18	-1.80	-25.00	-32.34
5230.00	H	-59.21	-67.31	12.58	-4.49	-25.00	-34.21
7845.00	H	-52.06	-57.29	10.83	-5.61	-25.00	-27.06

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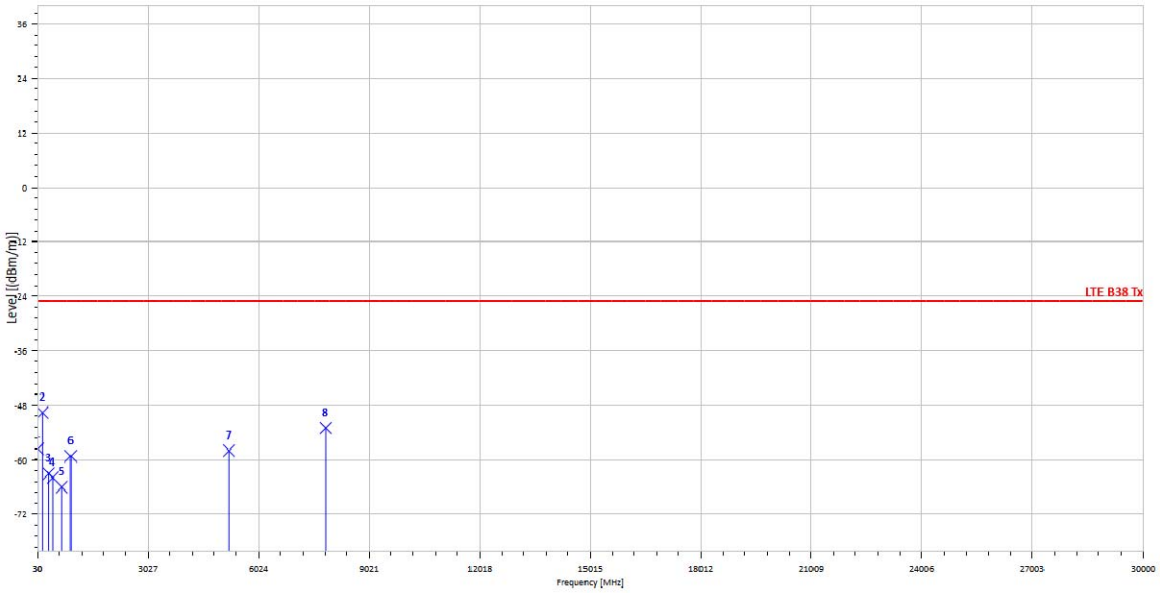
Project No.	E2/2018/70058	Fundamental Frequency	2615 MHz
IMEI No.	359324080457857	Operation Band	Tx CH High
EUT Description	英業達	Temp. / Humi.	22.7deg_C/57RH
EUT Model	HSN-I20C [Blurr] (WWAN_L850-GL(Pandora) SKU4)	Measurement Antenna Pol.	Horizontal
EUT Name	Notebook Computer	EUT Pol.	E2
Operation Mode	LTEB38 10M QPSK 1.49	Test Engineer	Jerry



Frequency	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
46.49	H	-57.58	-41.26	-15.91	-0.41	-25.00	-32.58
171.62	H	-49.66	-45.16	-3.75	-0.75	-25.00	-24.66
337.49	H	-63.05	-62.71	0.77	-1.11	-25.00	-38.05
452.92	H	-63.91	-63.35	0.64	-1.21	-25.00	-38.91
699.30	H	-66.00	-64.93	0.47	-1.54	-25.00	-41.00
933.07	H	-59.19	-57.56	0.17	-1.80	-25.00	-34.19
5230.00	H	-57.99	-66.09	12.58	-4.49	-25.00	-32.99
7845.00	H	-53.00	-58.22	10.83	-5.61	-25.00	-28.00

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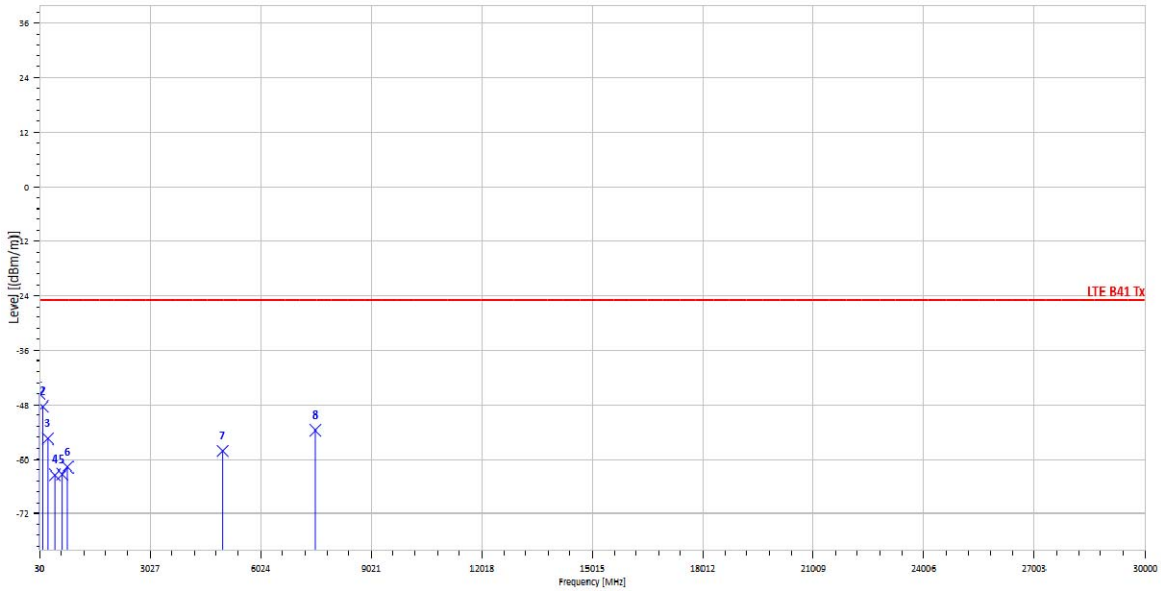
Radiated Spurious Emission Measurement Result: LTE-Band 41 (The Worst Case)

Project No.	E2/2018/70058	Fundamental Frequency	2501 MHz
IMEI No.	359324080457857	Operation Band	Tx CH Low
EUT Description	英業達	Temp. / Humi.	22.7deg_C/57RH
EUT Model	HSN-I20C [Blurr] (WWAN_L850-GL(Pandora) SKU4)	Measurement Antenna Pol.	Vertical
EUT Name	Notebook Computer	EUT Pol.	E2
Operation Mode	LTEB41 10M QPSK 1.0	Test Engineer	Jerry



Frequency	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
30.97	S	-45.60	-26.98	-18.32	-0.30	-25.00	-20.60
122.15	S	-48.43	-42.15	-5.64	-0.64	-25.00	-23.43
262.80	S	-55.48	-55.22	0.68	-0.94	-25.00	-30.48
454.86	S	-63.49	-62.92	0.65	-1.22	-25.00	-38.49
656.62	S	-63.33	-62.14	0.28	-1.48	-25.00	-38.33
799.21	S	-61.72	-60.36	0.23	-1.60	-25.00	-36.72
5002.00	H	-58.21	-66.21	12.40	-4.40	-25.00	-33.21
7503.00	H	-53.65	-59.11	10.90	-5.44	-25.00	-28.65

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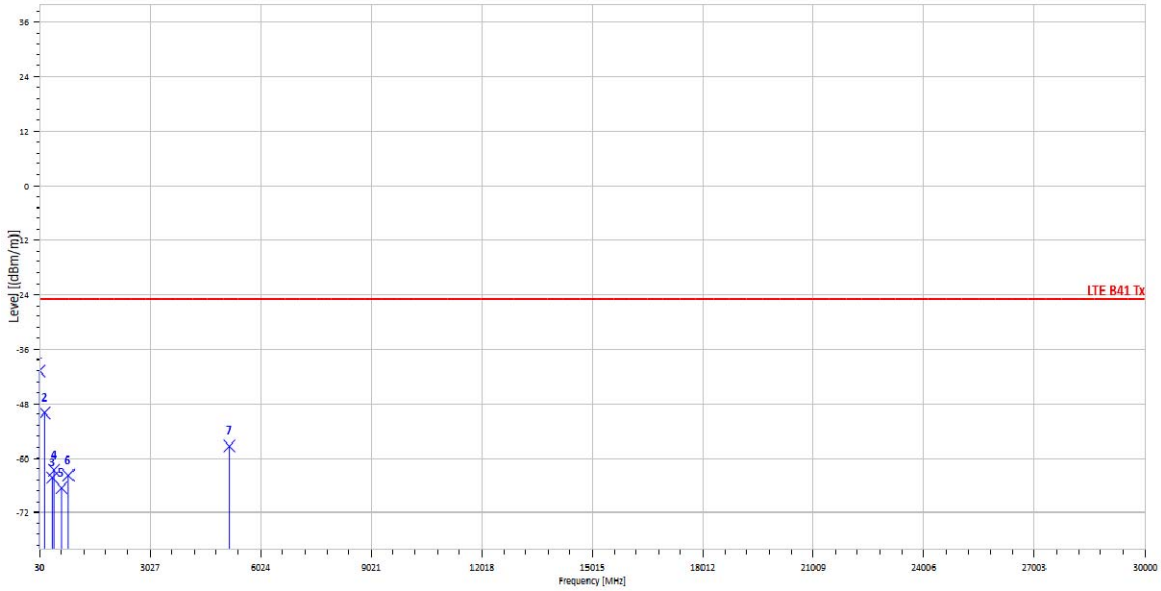
Project No.	E2/2018/70058	Fundamental Frequency	2501 MHz
IMEI No.	359324080457857	Operation Band	Tx CH Low
EUT Description	英業達	Temp. / Humi.	22.7deg_C/57RH
EUT Model	HSN-I20C [Blurr] (WWAN_L850-GL(Pandora) SKU4)	Measurement Antenna Pol.	Horizontal
EUT Name	Notebook Computer	EUT Pol.	E2
Operation Mode	LTEB41 10M QPSK 1.0	Test Engineer	Jerry



Frequency	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
31.94	S	-40.80	-22.33	-18.16	-0.31	-25.00	-15.80
172.59	S	-50.03	-45.69	-3.58	-0.75	-25.00	-25.03
384.05	S	-64.30	-63.90	0.78	-1.17	-25.00	-39.30
429.64	S	-62.68	-62.13	0.69	-1.24	-25.00	-37.68
638.19	S	-66.55	-65.39	0.23	-1.39	-25.00	-41.55
821.52	S	-63.80	-62.44	0.22	-1.58	-25.00	-38.80
5186.00	H	-57.37	-65.46	12.55	-4.46	-25.00	-32.37

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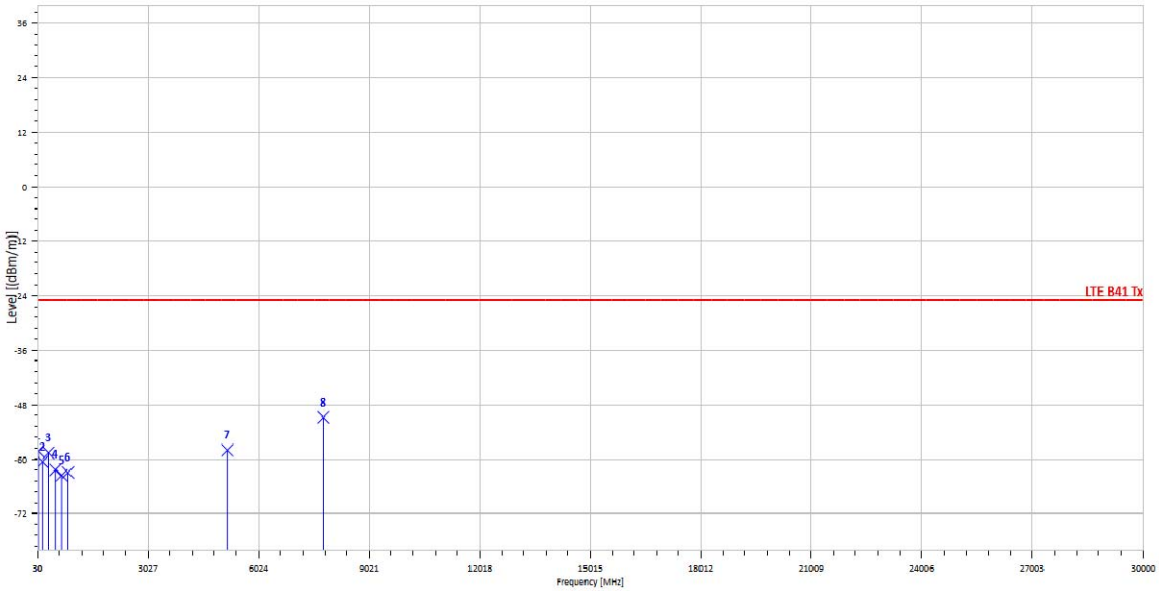
Project No.	E2/2018/70058	Fundamental Frequency	2593 MHz
IMEI No.	359324080457857	Operation Band	Tx CH Mid
EUT Description	英業達	Temp. / Humi.	22.7deg_C/57RH
EUT Model	HSN-I20C [Blurr] (WWAN_L850-GL(Pandora) SKU4)	Measurement Antenna Pol.	Vertical
EUT Name	Notebook Computer	EUT Pol.	E2
Operation Mode	LTEB41 10M QPSK 1.0	Test Engineer	Jerry



Frequency	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
55.22	S	-58.24	-43.57	-14.20	-0.46	-25.00	-33.24
172.59	S	-60.57	-56.24	-3.58	-0.75	-25.00	-35.57
334.58	S	-58.62	-58.26	0.75	-1.11	-25.00	-33.62
521.79	S	-62.37	-61.83	0.80	-1.33	-25.00	-37.37
694.45	S	-63.57	-62.49	0.45	-1.53	-25.00	-38.57
862.26	S	-62.96	-61.46	0.20	-1.70	-25.00	-37.96
5186.00	H	-58.05	-66.14	12.55	-4.46	-25.00	-33.05
7779.00	H	-50.82	-56.13	10.84	-5.53	-25.00	-25.82

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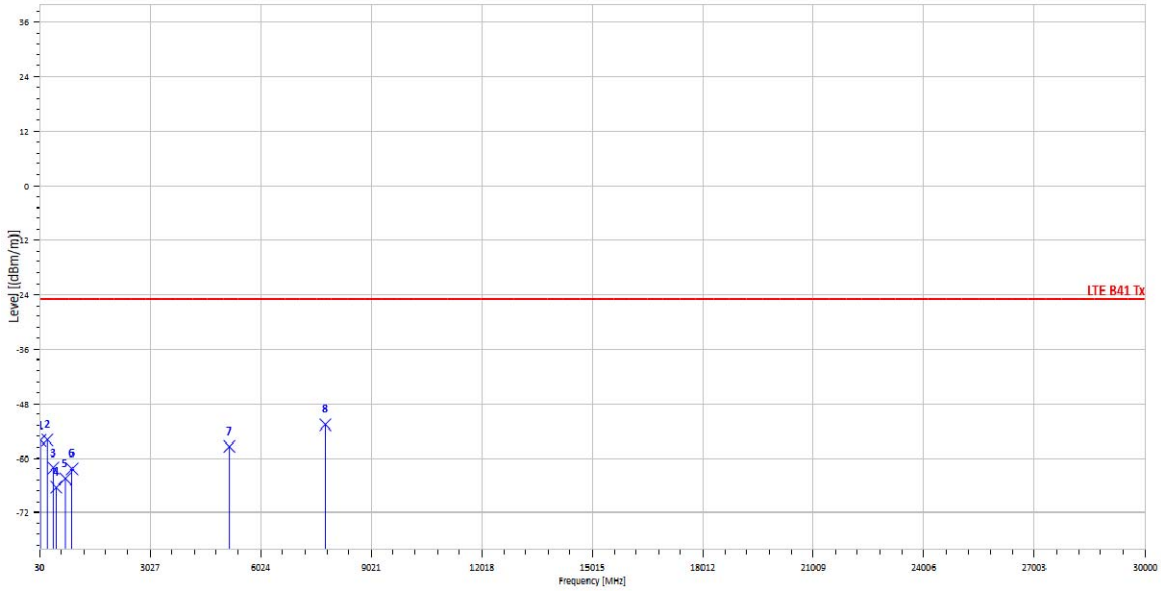
Project No.	E2/2018/70058	Fundamental Frequency	2593 MHz
IMEI No.	359324080457857	Operation Band	Tx CH Mid
EUT Description	英業達	Temp. / Humi.	22.7deg_C/57RH
EUT Model	HSN-I20C [Blurr] (WWAN_L850-GL(Pandora) SKU4)	Measurement Antenna Pol.	Horizontal
EUT Name	Notebook Computer	EUT Pol.	E2
Operation Mode	LTEB41 10M QPSK 1.0	Test Engineer	Jerry



Frequency	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
58.13	S	-56.06	-42.06	-13.53	-0.47	-25.00	-31.06
248.25	S	-55.96	-55.79	0.76	-0.93	-25.00	-30.96
411.21	S	-62.16	-61.59	0.72	-1.30	-25.00	-37.16
492.69	S	-66.43	-65.84	0.79	-1.37	-25.00	-41.43
743.92	S	-64.51	-62.90	-0.13	-1.48	-25.00	-39.51
916.58	S	-62.36	-60.80	0.21	-1.77	-25.00	-37.36
5186.00	H	-57.47	-65.56	12.55	-4.46	-25.00	-32.47
7779.00	H	-52.60	-57.92	10.84	-5.53	-25.00	-27.60

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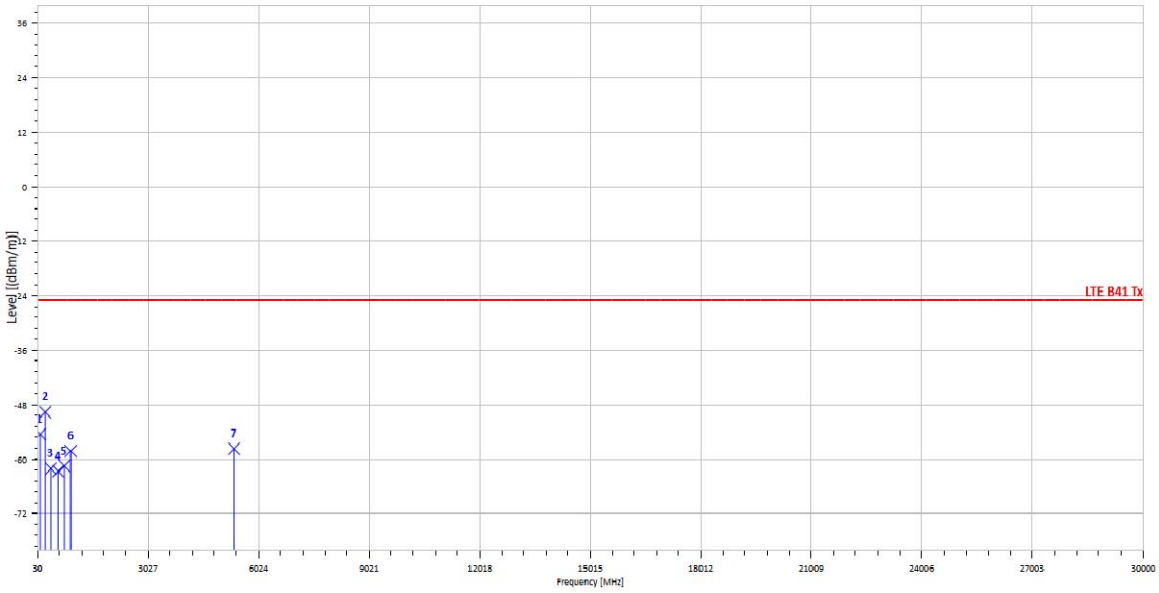
Project No.	E2/2018/70058	Fundamental Frequency	2685 MHz
IMEI No.	359324080457857	Operation Band	Tx CH High
EUT Description	英業達	Temp. / Humi.	22.7deg_C/57RH
EUT Model	HSN-I20C [Blurr] (WWAN_L850-GL(Pandora) SKU4)	Measurement Antenna Pol.	Vertical
EUT Name	Notebook Computer	EUT Pol.	E2
Operation Mode	LTEB41 10M QPSK 1.0	Test Engineer	Jerry



Frequency	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
108.57	S	-54.51	-48.81	-5.12	-0.58	-25.00	-29.51
245.34	S	-49.65	-49.46	0.73	-0.93	-25.00	-24.65
400.54	S	-62.08	-61.53	0.73	-1.28	-25.00	-37.08
600.36	S	-62.66	-61.35	0.14	-1.45	-25.00	-37.66
770.11	S	-61.48	-59.83	-0.03	-1.62	-25.00	-36.48
933.07	S	-58.22	-56.59	0.17	-1.80	-25.00	-33.22
5370.00	H	-57.74	-65.89	12.70	-4.54	-25.00	-32.74

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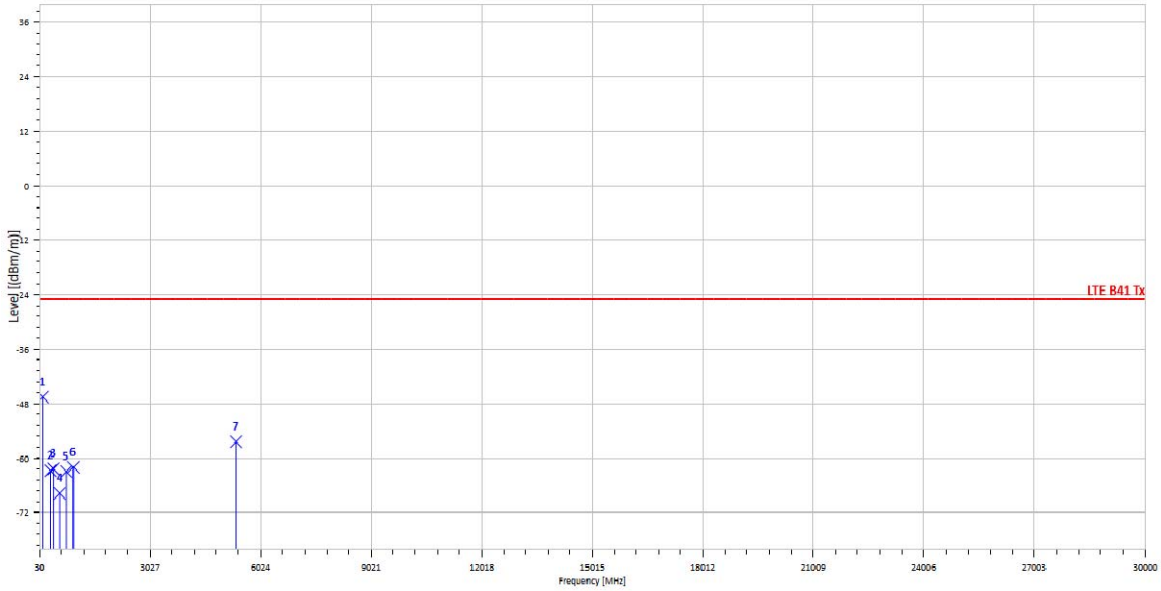
Project No.	E2/2018/70058	Fundamental Frequency	2685 MHz
IMEI No.	359324080457857	Operation Band	Tx CH High
EUT Description	英業達	Temp. / Humi.	22.7deg_C/57RH
EUT Model	HSN-I20C [Blurr] (WWAN_L850-GL(Pandora) SKU4)	Measurement Antenna Pol.	Horizontal
EUT Name	Notebook Computer	EUT Pol.	E2
Operation Mode	LTEB41 10M QPSK 1.0	Test Engineer	Jerry



Frequency	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
123.12	S	-46.52	-40.24	-5.63	-0.65	-25.00	-21.52
334.58	S	-62.77	-62.41	0.75	-1.11	-25.00	-37.77
417.03	S	-62.36	-61.78	0.71	-1.29	-25.00	-37.36
587.75	S	-67.73	-66.56	0.30	-1.48	-25.00	-42.73
770.11	S	-62.96	-61.31	-0.03	-1.62	-25.00	-37.96
950.53	S	-62.01	-60.29	0.14	-1.86	-25.00	-37.01
5370.00	H	-56.38	-64.54	12.70	-4.54	-25.00	-31.38

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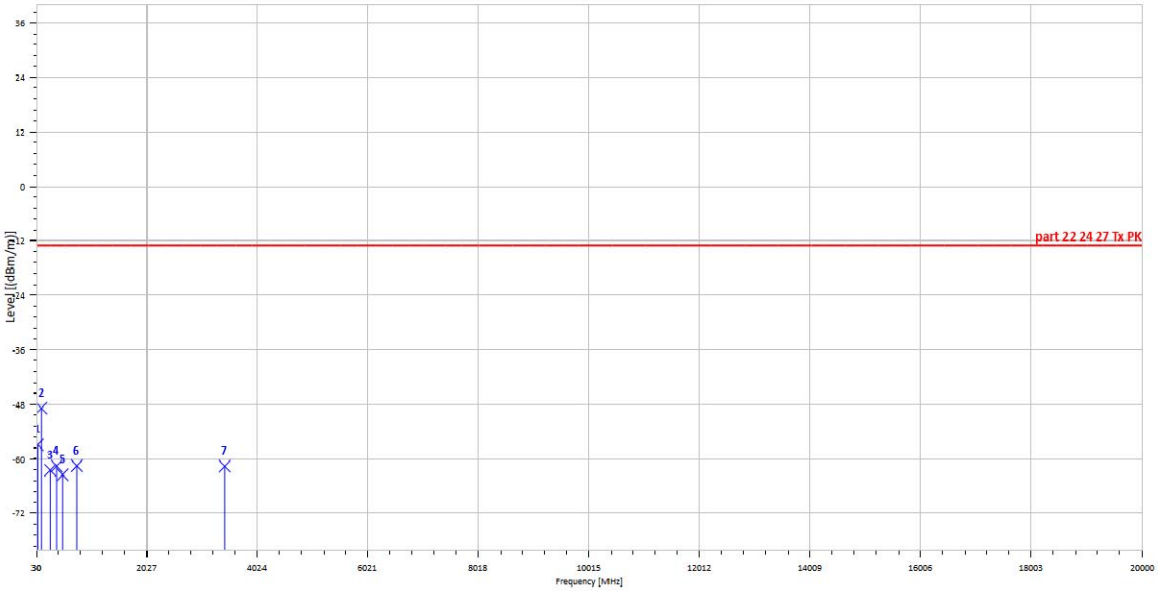
Radiated Spurious Emission Measurement Result: LTE-Band 66 (The Worst Case)

Project No.	E2/2018/70058	Fundamental Frequency	1717.5 MHz
IMEI No.	359324080457857	Operation Band	Tx CH Low
EUT Description		Temp. / Humi.	22.7deg_C/57RH
EUT Model	HSN-I20C [Blurr] (WWAN_L850-GL(Pandora) SKU4)	Measurement Antenna Pol.	Vertical
EUT Name	Notebook Computer	EUT Pol.	E2
Operation Mode	LTEB66 15M QPSK 1.74	Test Engineer	Jerry



Frequency	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
55.22	S	-56.89	-42.22	-14.20	-0.46	-13.01	-43.88
121.18	S	-48.87	-42.59	-5.65	-0.64	-13.01	-35.86
282.20	S	-62.50	-61.95	0.41	-0.97	-13.01	-49.49
400.54	S	-61.58	-61.03	0.73	-1.28	-13.01	-48.57
511.12	S	-63.49	-62.92	0.81	-1.38	-13.01	-50.48
771.08	S	-61.54	-59.89	-0.02	-1.62	-13.01	-48.53
3435.00	H	-61.63	-70.24	12.17	-3.56	-13.01	-48.62

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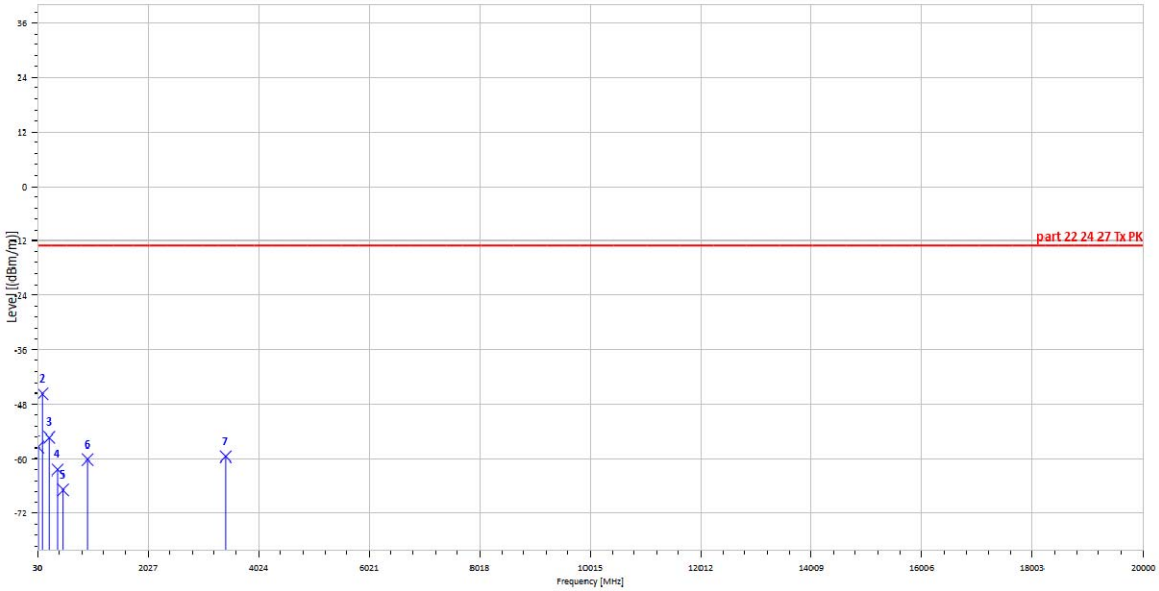
Project No.	E2/2018/70058	Fundamental Frequency	1717.5 MHz
IMEI No.	359324080457857	Operation Band	Tx CH Low
EUT Description		Temp. / Humi.	22.7deg_C/57RH
EUT Model	HSN-I20C [Blurr] (WWAN_L850-GL(Pandora) SKU4)	Measurement Antenna Pol.	Horizontal
EUT Name	Notebook Computer	EUT Pol.	E2
Operation Mode	LTEB66 15M QPSK 1.74	Test Engineer	Jerry



Frequency	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
47.46	S	-57.41	-41.23	-15.77	-0.41	-13.01	-44.40
123.12	S	-45.72	-39.45	-5.63	-0.65	-13.01	-32.71
246.31	S	-55.33	-55.14	0.74	-0.93	-13.01	-42.32
400.54	S	-62.38	-61.83	0.73	-1.28	-13.01	-49.37
500.45	S	-66.85	-66.26	0.81	-1.40	-13.01	-53.84
933.07	S	-60.15	-58.53	0.17	-1.80	-13.01	-47.14
3435.00	H	-59.49	-68.10	12.17	-3.56	-13.01	-46.48

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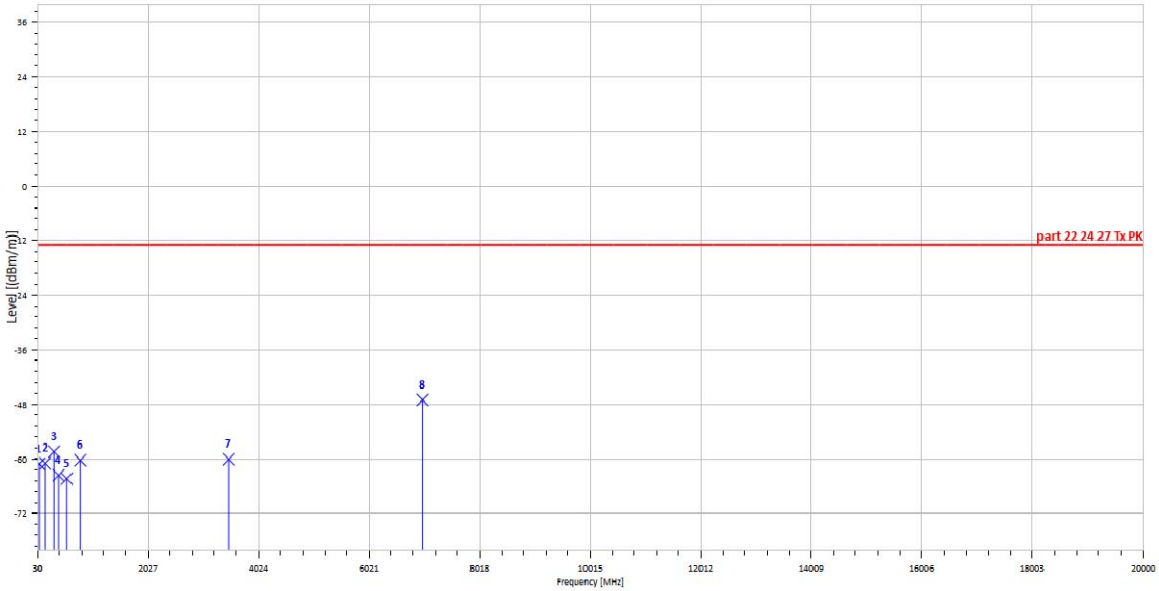
Project No.	E2/2018/70058	Fundamental Frequency	1745 MHz
IMEI No.	359324080457857	Operation Band	Tx CH Mid
EUT Description	英業達	Temp. / Humi.	22.7deg_C/57RH
EUT Model	HSN-I20C [Blurr] (WWAN_L850-GL(Pandora) SKU4)	Measurement Antenna Pol.	Vertical
EUT Name	Notebook Computer	EUT Pol.	E2
Operation Mode	LTEB66 15M QPSK 1.74	Test Engineer	Jerry



Frequency	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
64.92	S	-61.11	-48.90	-11.72	-0.48	-13.01	-48.10
171.62	S	-60.99	-56.50	-3.75	-0.75	-13.01	-47.98
334.58	S	-58.40	-58.04	0.75	-1.11	-13.01	-45.39
417.03	S	-63.61	-63.03	0.71	-1.29	-13.01	-50.60
563.50	S	-64.35	-63.54	0.60	-1.41	-13.01	-51.34
800.18	S	-60.32	-58.96	0.24	-1.60	-13.01	-47.31
3490.00	H	-60.10	-68.82	12.28	-3.56	-13.01	-47.09
6980.00	H	-47.02	-53.28	11.52	-5.26	-13.01	-34.01

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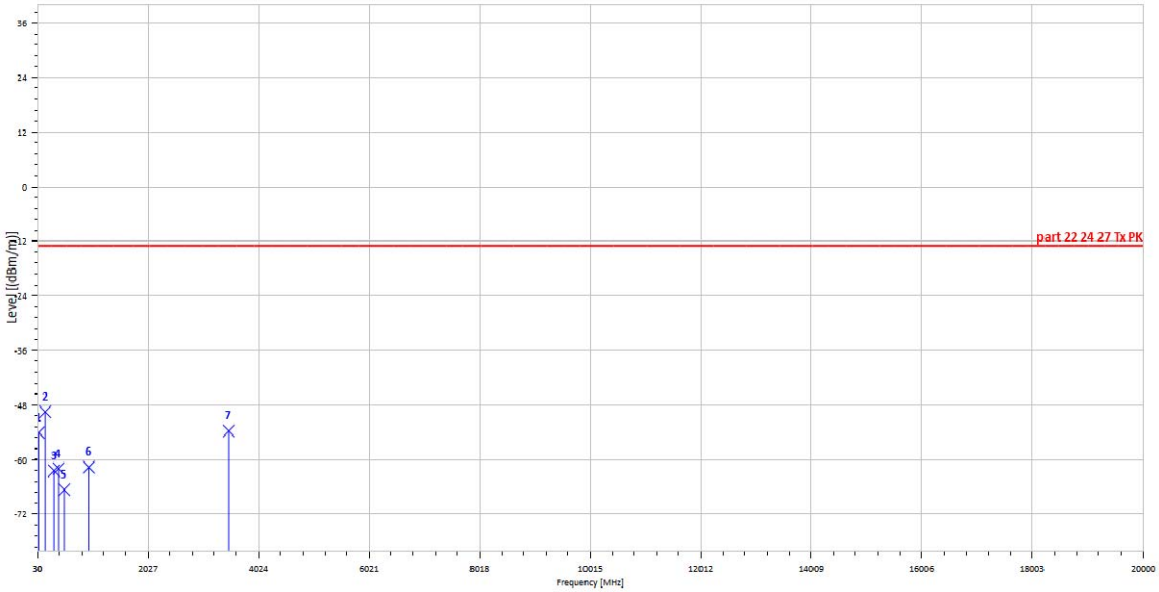
Project No.	E2/2018/70058	Fundamental Frequency	1745 MHz
IMEI No.	359324080457857	Operation Band	Tx CH Mid
EUT Description	英業達	Temp. / Humi.	22.7deg_C/57RH
EUT Model	HSN-I20C [Blurr] (WWAN_L850-GL(Pandora) SKU4)	Measurement Antenna Pol.	Horizontal
EUT Name	Notebook Computer	EUT Pol.	E2
Operation Mode	LTEB66 15M QPSK 1.74	Test Engineer	Jerry



Frequency	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
56.19	S	-54.06	-39.62	-13.98	-0.46	-13.01	-41.05
172.59	S	-49.53	-45.19	-3.58	-0.75	-13.01	-36.52
332.64	S	-62.45	-62.08	0.74	-1.12	-13.01	-49.44
417.03	S	-61.98	-61.41	0.71	-1.29	-13.01	-48.97
522.76	S	-66.61	-66.08	0.80	-1.33	-13.01	-53.60
957.32	S	-61.69	-60.01	0.19	-1.87	-13.01	-48.68
3490.00	H	-53.70	-62.42	12.28	-3.56	-13.01	-40.69

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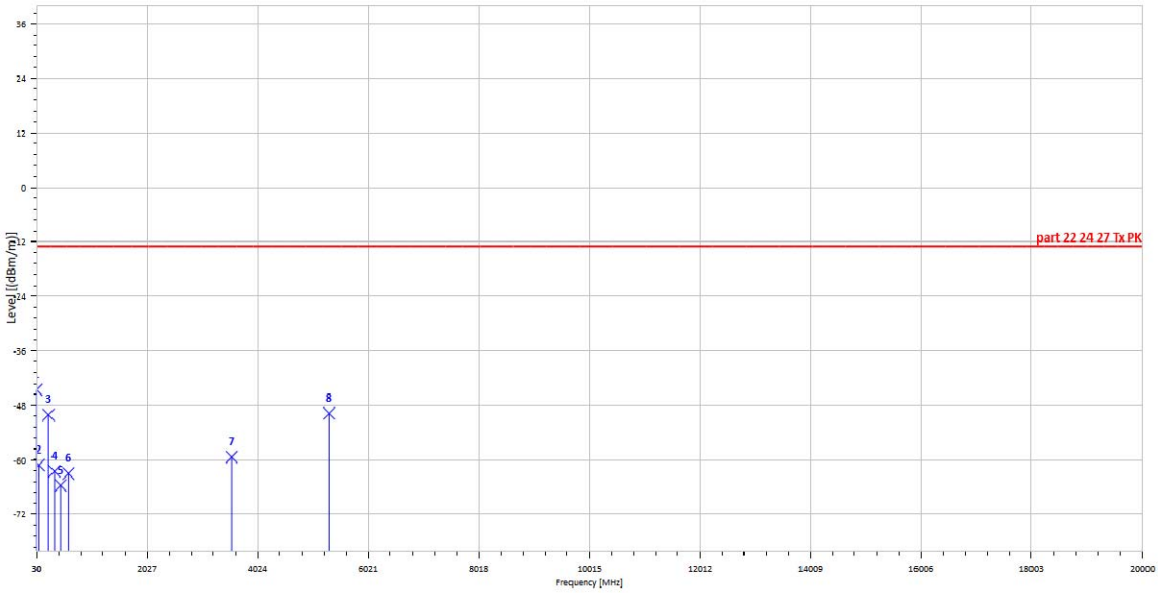
Project No.	E2/2018/70058	Fundamental Frequency	1772.5 MHz
IMEI No.	359324080457857	Operation Band	Tx CH High
EUT Description		Temp. / Humi.	22.7deg_C/57RH
EUT Model	HSN-I20C [Blurr] (WWAN_L850-GL(Pandora) SKU4)	Measurement Antenna Pol.	Vertical
EUT Name	Notebook Computer	EUT Pol.	E2
Operation Mode	LTEB66 15M QPSK 1.74	Test Engineer	Jerry



Frequency	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
30.97	S	-44.56	-25.94	-18.32	-0.30	-13.01	-31.55
73.65	S	-61.16	-51.64	-9.01	-0.50	-13.01	-48.15
243.40	S	-50.10	-49.89	0.71	-0.93	-13.01	-37.09
348.16	S	-62.53	-62.25	0.81	-1.09	-13.01	-49.52
457.77	S	-65.63	-65.06	0.67	-1.23	-13.01	-52.62
600.36	S	-63.02	-61.71	0.14	-1.45	-13.01	-50.01
3545.00	H	-59.38	-68.05	12.32	-3.65	-13.01	-46.37
5317.50	H	-49.78	-57.91	12.65	-4.53	-13.01	-36.77

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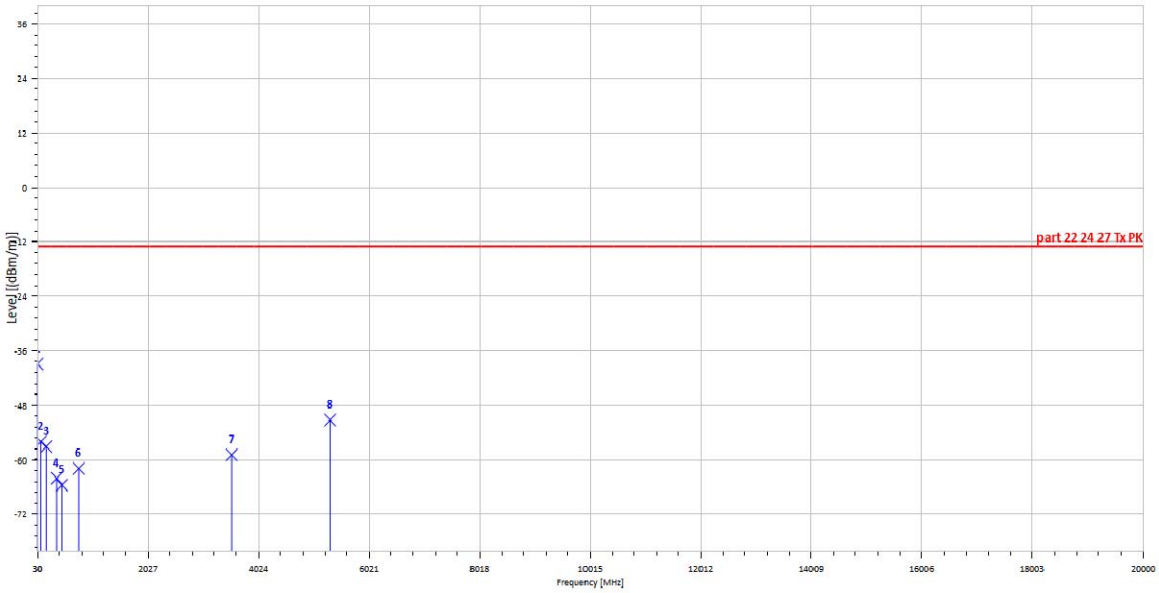
Project No.	E2/2018/70058	Fundamental Frequency	1772.5 MHz
IMEI No.	359324080457857	Operation Band	Tx CH High
EUT Description	英業達	Temp. / Humi.	22.7deg_C/57RH
EUT Model	HSN-I20C [Blurr] (WWAN_L850-GL(Pandora) SKU4)	Measurement Antenna Pol.	Horizontal
EUT Name	Notebook Computer	EUT Pol.	E2
Operation Mode	LTEB66 15M QPSK 1.74	Test Engineer	Jerry



Frequency	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
30.97	S	-38.88	-20.26	-18.32	-0.30	-13.01	-25.87
92.08	S	-56.00	-51.24	-4.23	-0.54	-13.01	-42.99
191.99	S	-57.06	-56.06	-0.22	-0.78	-13.01	-44.05
383.08	S	-64.08	-63.70	0.78	-1.16	-13.01	-51.07
479.11	S	-65.57	-64.99	0.75	-1.33	-13.01	-52.56
771.08	S	-61.92	-60.28	-0.02	-1.62	-13.01	-48.91
3545.00	H	-58.92	-67.59	12.32	-3.65	-13.01	-45.91
5317.50	H	-51.23	-59.36	12.65	-4.53	-13.01	-38.22

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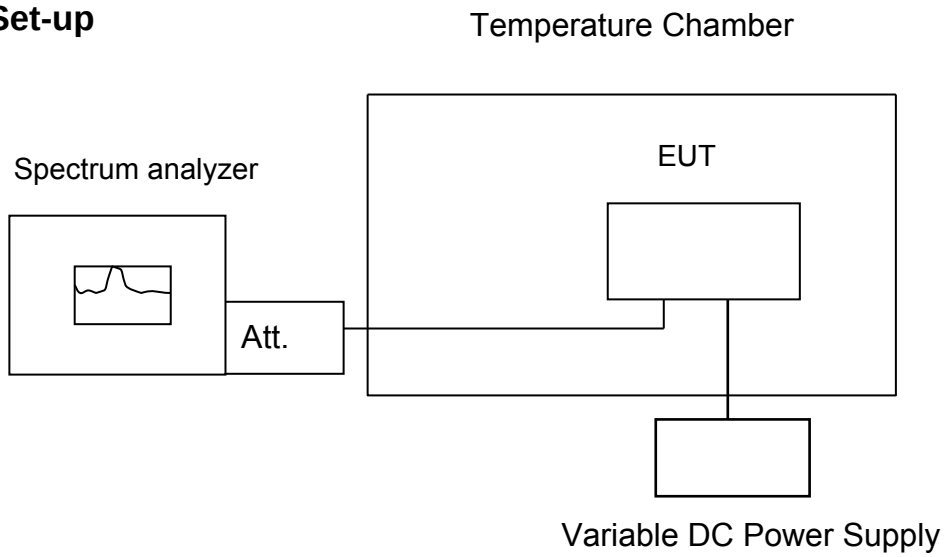
10. FREQUENCY STABILITY MEASUREMENT

10.1. Standard Applicabl

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

10.2. Test Set-up



Note: Measurement setup for testing on Antenna connector

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10.3. Measurement Procedure

The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 25°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to –30°C. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached.

Set chamber temperature to 25℃. Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.
Reduce the input voltage to specify extreme voltage variation (+/- 15%) and endpoint as declared by the manufacturer, record the maximum frequency change.

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10.4. Measurement Equipment Used

Conducted Emission (measured at antenna port) Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	N9010A	MY53400256	10/30/2017	10/29/2018
Radio Communica-tion Analyer	Anritsu	MT8820C	6201107337	06/09/2018	06/08/2019
DC Power Supply	Agilent	E3640A	MY53130054	09/04/2017	09/03/2018
Attenuator	Marvelous	MVE2213-10	RF30	12/26/2017	12/25/2018
Splitter	RF-LAMBAD	RFLT2W1G18G	RF35	12/26/2017	12/25/2018
Spectrum Analyzer	Agilent	N9010A	MY53400256	10/30/2017	10/29/2018
Radio Communica-tion Analyer	Anritsu	MT8820C	6201107337	06/09/2018	06/08/2019
DC Power Supply	Agilent	E3640A	MY53130054	09/04/2017	09/03/2018

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10.5. Measurement Result

WCDMA II Mid Channel 1880 MHz				
Limit: +/- 2.5 ppm				
Vdc	Temp. (℃)	Freq. (MHz)	Delta (Hz)	Limit (Hz)
FREQUENCY ERROR vs. VOLTAGE				
8.855	20	1880.000398	397.9999999	4700
7.7	20	1880.000409	409	4700
6	20	1880.000401	401	4700
100(End point)	20	1880.000379	379.0000001	4700
FREQUENCY ERROR vs. Temp.				
7.7	50	1880.000397	397	4700
7.7	40	1880.000384	383.9999999	4700
7.7	30	1880.000413	413	4700
7.7	20	1880.000409	409	4700
7.7	10	1880.000405	405	4700
7.7	0	1880.00041	410.0000001	4700
7.7	-10	1880.000399	399	4700
7.7	-20	1880.00041	410.0000001	4700
7.7	-30	1880.000381	381.0000001	4700

WCDMA IV Mid Channel 1732.6 MHz				
Limit: +/- 2.5 ppm				
Vdc	Temp. (℃)	Freq. (MHz)	Delta (Hz)	Limit (Hz)
FREQUENCY ERROR vs. VOLTAGE				
8.855	20	1732.600624	624	4331
7.7	20	1732.600644	644.0000002	4331
6	20	1732.600642	642.0000002	4331
100(End point)	20	1732.600641	641.0000001	4331
FREQUENCY ERROR vs. Temp.				
7.7	50	1732.600614	614	4331
7.7	40	1732.600617	617.0000001	4331
7.7	30	1732.600608	608.0000001	4331
7.7	20	1732.600605	605.0000002	4331
7.7	10	1732.600608	608.0000001	4331
7.7	0	1732.600641	641.0000001	4331
7.7	-10	1732.600626	626	4331
7.7	-20	1732.600627	627.0000001	4331
7.7	-30	1732.600607	607.0000002	4331

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WCDMA V Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm				
Vdc	Temp. (℃)	Freq. (MHz)	Delta (Hz)	Limit (Hz)
FREQUENCY ERROR vs. VOLTAGE				
8.855	20	836.600128	128	2091
7.7	20	836.600137	137	2091
6	20	836.600154	154	2091
100(End point)	20	836.60014	140	2091
FREQUENCY ERROR vs. Temp.				
7.7	50	836.600143	143	2091
7.7	40	836.600157	156.9999999	2091
7.7	30	836.60013	130	2091
7.7	20	836.600122	122	2091
7.7	10	836.600141	141	2091
7.7	0	836.600129	129	2091
7.7	-10	836.600157	156.9999999	2091
7.7	-20	836.600132	132	2091
7.7	-30	836.600165	164.9999999	2091

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Reference Freq.:	LTE B2 Mid Channel	1880	MHz 20M QPSK CH 18900	
Power Supply Vdc	Temp. (℃)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
7.7	25	1880.000015	15	4700
100 (End Point)	25	1879.999985	-15	4700
Freq. ERROR vs. Temp.				
7.7	-30	1879.999999	-1	4700
7.7	-20	1879.999983	-17	4700
7.7	-10	1880.000002	2	4700
7.7	0	1879.999985	-15	4700
7.7	10	1880.000020	20	4700
7.7	20	1880.000021	21	4700
7.7	30	1880.000018	18	4700
7.7	40	1879.999999	-1	4700
7.7	50	1879.999991	-9	4700

Reference Freq.:	LTE B4 Mid Channel	1732.5	MHz 20M QPSK CH 20175	
Power Supply Vdc	Temp. (℃)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
7.7	25	1732.500022	22	4331
100 (End Point)	25	1732.499989	-11	4331
Freq. ERROR vs. Temp.				
7.7	-30	1732.500002	2	4331
7.7	-20	1732.500008	8	4331
7.7	-10	1732.500021	21	4331
7.7	0	1732.499993	-7	4331
7.7	10	1732.499984	-16	4331
7.7	20	1732.499998	-2	4331
7.7	30	1732.499984	-16	4331
7.7	40	1732.499987	-13	4331
7.7	50	1732.500013	13	4331

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Reference Freq.:	LTE B5 Mid Channel	836.5	MHz 10M QPSK CH 20525	
Power Supply Vdc	Temp. (℃)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
7.7	25	836.499997	-3	2091
100 (End Point)	25	836.499997	-3	2091
Freq. ERROR vs. Temp.				
7.7	-30	836.499996	-4	2091
7.7	-20	836.499994	-6	2091
7.7	-10	836.500015	15	2091
7.7	0	836.499992	-8	2091
7.7	10	836.499981	-19	2091
7.7	20	836.500020	20	2091
7.7	30	836.499991	-9	2091
7.7	40	836.499991	-9	2091
7.7	50	836.499981	-19	2091

Reference Freq.:	LTE B7 Mid Channel	2535	MHz 10M QPSK CH 21100	
Power Supply Vdc	Temp. (℃)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
7.7	25	2534.999985	-15	6338
100 (End Point)	25	2535.000010	10	6338
Freq. ERROR vs. Temp.				
7.7	-30	2535.000016	16	6338
7.7	-20	2535.000000	0	6338
7.7	-10	2534.999976	-24	6338
7.7	0	2535.000000	0	6338
7.7	10	2534.999978	-22	6338
7.7	20	2535.000014	14	6338
7.7	30	2535.000009	8.9999999	6338
7.7	40	2534.999979	-21	6338
7.7	50	2534.999991	-9	6338

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Reference Freq.:	LTE B12 Mid Channel	707.5	MHz 10M QPSK CH 23095	
Power Supply Vdc	Temp. (℃)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
7.7	25	707.499986	-14	1769
100 (End Point)	25	707.500005	5	1769
Freq. ERROR vs. Temp.				
7.7	-30	707.499982	-18	1769
7.7	-20	707.499987	-13	1769
7.7	-10	707.499984	-16	1769
7.7	0	707.499994	-6	1769
7.7	10	707.499987	-13	1769
7.7	20	707.500010	10	1769
7.7	30	707.500016	16	1769
7.7	40	707.500009	9	1769
7.7	50	707.499996	-4	1769

Reference Freq.:	LTE B13 Mid Channel	782	MHz 10M QPSK CH 23230	
Power Supply Vdc	Temp. (℃)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
7.7	25	781.999989	-11	1955
100 (End Point)	25	782.000004	4	1955
Freq. ERROR vs. Temp.				
7.7	-30	781.999985	-15	1955
7.7	-20	781.999990	-10	1955
7.7	-10	781.999999	-1	1955
7.7	0	782.000019	19	1955
7.7	10	782.000001	1	1955
7.7	20	782.000005	5	1955
7.7	30	781.999977	-23	1955
7.7	40	782.000018	18	1955
7.7	50	782.000013	13	1955

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Reference Freq.:	LTE B17 Mid Channel	710	MHz 10M QPSK CH 23790	
Power Supply Vdc	Temp. (℃)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
7.7	25	710.000015	15	1775
100 (End Point)	25	710.000002	2	1775
Freq. ERROR vs. Temp.				
7.7	-30	710.000005	5	1775
7.7	-20	710.000001	1	1775
7.7	-10	709.999991	-9	1775
7.7	0	709.999977	-23	1775
7.7	10	710.000016	16	1775
7.7	20	710.000019	19	1775
7.7	30	710.000018	18	1775
7.7	40	710.000017	17	1775
7.7	50	709.999988	-12	1775

Reference Freq.:	LTE B26 Mid Channel	831.5	MHz 15M QPSK CH 26865	
Power Supply Vdc	Temp. (℃)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
7.7	25	831.499979	-21	2091
100 (End Point)	25	831.499997	-3	2091
Freq. ERROR vs. Temp.				
7.7	-30	831.500007	7	2091
7.7	-20	831.499987	-13	2091
7.7	-10	831.499987	-13	2091
7.7	0	831.499982	-18	2091
7.7	10	831.499985	-15	2091
7.7	20	831.499978	-22	2091
7.7	30	831.499997	-3	2091
7.7	40	831.499993	-7	2091
7.7	50	831.500014	14	2091

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Reference Freq.:	Part 90 LTE B26 Mid Channel	819	MHz 10M QPSK CH 26740	
Power Supply Vdc	Temp. (℃)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE (LTE B26 for Part 90S)				
7.7	25	818.999976	-24	2048
100 (End Point)	25	819.000007	7	2048
Freq. ERROR vs. Temp.				
7.7	-30	818.999975	-25	2048
7.7	-20	819.000002	2	2048
7.7	-10	819.000013	13	2048
7.7	0	818.999982	-18	2048
7.7	10	818.999994	-6	2048
7.7	20	819.000003	3	2048
7.7	30	819.000015	15	2048
7.7	40	819.000011	11	2048
7.7	50	818.999993	-7	2048

Reference Freq.:	LTE B30 Mid Channel	2310	MHz 10M QPSK CH 27710	
Power Supply Vdc	Temp. (℃)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
7.7	25	2310.000023	23	6488
100 (End Point)	25	2310.000007	7.0000001	6488
Freq. ERROR vs. Temp.				
7.7	-30	2309.999978	-22	6488
7.7	-20	2310.000014	14	6488
7.7	-10	2310.000010	10	6488
7.7	0	2309.999994	-6	6488
7.7	10	2309.999984	-16	6488
7.7	20	2309.999989	-11	6488
7.7	30	2310.000011	11	6488
7.7	40	2310.000007	7.0000001	6488
7.7	50	2310.000010	10	6488

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Reference Freq.:	LTE B38 Mid Channel	2595	MHz 10M QPSK CH 38000	
Power Supply Vdc	Temp. (℃)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
7.7	25	2595.000001	0.9999999	6488
100 (End Point)	25	2594.999994	-6	6488
Freq. ERROR vs. Temp.				
7.7	-30	2595.000024	24	6488
7.7	-20	2595.000024	24	6488
7.7	-10	2594.999996	-4	6488
7.7	0	2594.999986	-14	6488
7.7	10	2594.999994	-6	6488
7.7	20	2595.000000	0	6488
7.7	30	2595.000001	0.9999999	6488
7.7	40	2594.999993	-7	6488
7.7	50	2594.999996	-4	6488

Reference Freq.:	LTE B41 Mid Channel	2593	MHz 10M QPSK CH 40620	
Power Supply Vdc	Temp. (℃)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
7.7	25	2592.999975	-25	6488
100 (End Point)	25	2592.999993	-7	6488
Freq. ERROR vs. Temp.				
7.7	-30	2592.999976	-24	6488
7.7	-20	2592.999977	-23	6488
7.7	-10	2592.999999	-1	6488
7.7	0	2592.999989	-11	6488
7.7	10	2592.999993	-7	6488
7.7	20	2592.999978	-22	6488
7.7	30	2593.000018	18	6488
7.7	40	2592.999997	-3	6488
7.7	50	2592.999977	-23	6488

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Reference Freq.:	LTE B66 Mid Channel	1745	MHz 10M QPSK CH 132322	
Power Supply Vdc	Temp. (℃)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
7.7	25	1745.000015	15	6488
100 (End Point)	25	1745.000008	8	6488
Freq. ERROR vs. Temp.				
7.7	-30	1744.999999	-1	6488
7.7	-20	1745.000000	0	6488
7.7	-10	1744.999999	-1	6488
7.7	0	1745.000009	9.0000001	6488
7.7	10	1744.999994	-6	6488
7.7	20	1745.000002	2	6488
7.7	30	1744.999995	-5	6488
7.7	40	1744.999993	-7	6488
7.7	50	1745.000022	22	6488

Note: The battery is rated 7.7V dc.

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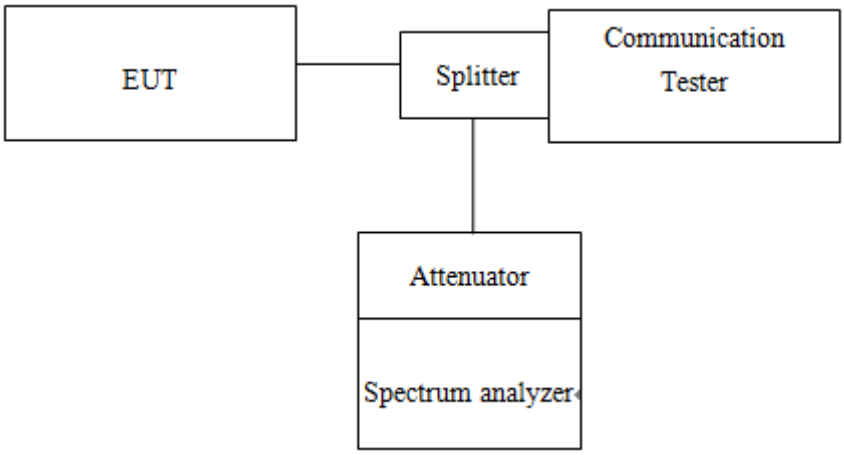
11. PEAK TO AVERAGE RATIO

11.1. Standard Applicable

The peak-to-average ratio (PAR) of the transmission may not exceed 13dB.

11.2. Test SET-UP



11.3. Measurement Procedure

1. KDB 971168 D01 is employed as the following procedure is proper adjusted accordingly:
2. Set resolution/measurement bandwidth ≥ signal's occupied bandwidth; & internal =1ms
3. Set the number of counts to a value that stabilizes the measured CCDF curve.

11.4. Measurement Equipment Used

Conducted Emission (measured at antenna port) Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	N9010A	MY53400256	10/30/2017	10/29/2018
Radio Communica-tion Analyer	Anritsu	MT8820C	6201107337	06/09/2018	06/08/2019
DC Power Supply	Agilent	E3640A	MY53130054	09/04/2017	09/03/2018
Attenuator	Marvelous	MVE2213-10	RF30	12/26/2017	12/25/2018
Splitter	RF-LAMBAD	RFLT2W1G18G	RF35	12/26/2017	12/25/2018
Spectrum Analyzer	Agilent	N9010A	MY53400256	10/30/2017	10/29/2018
Radio Communica-tion Analyer	Anritsu	MT8820C	6201107337	06/09/2018	06/08/2019
DC Power Supply	Agilent	E3640A	MY53130054	09/04/2017	09/03/2018

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11.5. Measurement Result

Tabular Results:

Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		
		WCDMA II	HSDPA II	HSUPA II
1852.4	9262	3.47	4.30	4.09
1880	9400	3.46	4.07	3.59
1907.6	9538	3.40	3.96	4.23

Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		
		WCDMA IV	HSDPA IV	HSUPA IV
1712.4	1312	3.35	4.06	3.89
1732.6	1413	3.37	3.54	4.39
1752.6	1513	3.26	3.92	3.76

Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		
		WCDMA V	HSDPA V	HSUPA V
826.4	4132	3.25	4.01	3.36
836.6	4183	3.09	3.33	3.48
846.6	4233	2.67	2.87	2.85

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LTE BAND 2							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16 QAM	Limit			16 QAM	Limit
1850.7	18607	6.45	13	1851.5	18615	6.66	13
1880.0	18900	6.49	13	1880.0	18900	6.62	13
1909.3	19193	6.50	13	1908.5	19185	6.63	13

LTE BAND 2							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16 QAM	Limit			16 QAM	Limit
1852.5	18625	6.61	13	1855.0	18650	6.49	13
1880.0	18900	6.50	13	1880.0	18900	6.54	13
1907.5	19175	6.44	13	1905.0	19150	6.43	13

LTE BAND 2							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16 QAM	Limit			16 QAM	Limit
1857.5	18675	6.39	13	1860.0	18700	6.65	13
1880.0	18900	6.34	13	1880.0	18900	6.65	13
1902.5	19125	6.36	13	1900.0	19100	6.62	13

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LTE BAND 4							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16 QAM	Limit			16 QAM	Limit
1710.7	19957	6.47	13	1711.5	19965	6.49	13
1732.5	20175	6.34	13	1732.5	20175	6.44	13
1754.3	20393	6.31	13	1753.5	20385	6.41	13

LTE BAND 4							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16 QAM	Limit			16 QAM	Limit
1712.5	19957	6.23	13	1715.0	20000	6.28	13
1732.5	20175	6.34	13	1732.5	20175	6.42	13
1752.5	20375	6.18	13	1750.0	20350	6.29	13

LTE BAND 4							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16 QAM	Limit			16 QAM	Limit
1717.5	20025	6.15	13	1720.0	20050	6.57	13
1732.5	20175	6.23	13	1732.5	20175	6.69	13
1747.5	20325	6.15	13	1745.0	20300	6.70	13

LTE BAND 5							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16 QAM	Limit			16 QAM	Limit
824.7	20407	5.87	13	825.5	20415	6.08	13
836.5	20525	6.01	13	836.5	20525	6.14	13
848.3	20643	5.66	13	847.5	20635	5.67	13

LTE BAND 5							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16 QAM	Limit			16 QAM	Limit
826.5	20425	6.08	13	829.0	20450	5.93	13
836.5	20525	6.22	13	836.5	20525	6.45	13
846.5	20625	5.41	13	844.0	20600	5.93	13

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LTE BAND 7							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16 QAM	Limit			16 QAM	Limit
2502.5	20775	5.91	13	2505.0	20800	5.96	13
2535.0	21100	6.10	13	2535.0	21100	6.16	13
2567.5	21425	6.01	13	2565.0	21400	6.35	13

LTE BAND 7							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16 QAM	Limit			16 QAM	Limit
2507.5	20825	6.08	13	2510	20850	6.64	13
2535.0	21100	6.05	13	2535	21100	6.59	13
2562.5	21375	6.14	13	2560	21350	6.65	13

LTE BAND 12							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16 QAM	Limit			16 QAM	Limit
699.7	23017	5.55	13	700.5	23025	6.06	13
707.5	23095	5.10	13	707.5	23095	5.63	13
715.3	23173	5.42	13	714.5	23165	6.06	13

LTE BAND 12							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16 QAM	Limit			16 QAM	Limit
701.5	23035	5.93	13	704.0	23060	5.99	13
707.5	23095	5.55	13	707.5	23095	6.45	13
713.5	23155	5.85	13	711.0	23130	6.23	13

LTE BAND 13							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16 QAM	Limit			16 QAM	Limit
779.5	23205	6.25	13	782.0	23230	6.38	13
782.0	23230	6.34	13				
784.5	23255	6.43	13				

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LTE BAND 17							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16 QAM	Limit			16 QAM	Limit
706.5	23755	5.56	13	709	23780	6.06	13
710	23790	5.69	13	710	23790	6.46	13
713.5	23825	5.89	13	711	23800	6.29	13

LTE BAND 26							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16 QAM	Limit			16 QAM	Limit
814.7	26697	5.77	13	815.5	26705	5.98	13
831.5	26865	5.44	13	831.5	26865	5.77	13
848.3	27033	5.56	13	847.5	27025	5.75	13

LTE BAND 26							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16 QAM	Limit			16 QAM	Limit
816.5	26715	6.07	13	820.0	26750	6.41	13
831.5	26865	5.70	13	831.5	26865	5.89	13
846.5	27015	5.31	13	844.0	26990	5.85	13

LTE BAND 26							
Channel bandwidth: 15MHz							
Freq. (MHz)	CH	PAPR (dB)					
		16 QAM	Limit				
822.5	26775	6.33	13				
831.5	26865	6.02	13				
841.5	26965	6.47	13				

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LTE BAND 26 for part 90S							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16 QAM	Limit			16 QAM	Limit
814.7	26697	5.80	13	815.5	26705	6.08	13
819.0	26740	6.07	13	819	26740	6.07	13
823.3	26783	6.20	13	822.5	26775	6.25	13

LTE BAND 26 for part 90S							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16 QAM	Limit			16 QAM	Limit
816.5	26715	6.13	13	819.0	26740	6.26	13
819.0	26740	6.16	13				
821.5	26765	6.32	13				

LTE BAND 30							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	Peak-to-		Freq. (MHz)	CH	Peak-to-	
		6.01	Limit			6.01	Limit
2307.5	27685	6.28	13	2310.0	27710	6.10	13
2310.0	27710	6.30	13				
2312.5	27735	6.32	13				

LTE BAND 38							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16 QAM	Limit			16 QAM	Limit
2572.5	37775	9.23	13	2575	37800	9.14	13
2595.0	38000	8.72	13	2595	38000	9.43	13
2617.5	38225	10.08	13	2615	38200	9.31	13

LTE BAND 38							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16 QAM	Limit			16 QAM	Limit
2577.5	37825	10.49	13	2580.0	37850	8.30	13
2595.0	38000	8.73	13	2595.0	38000	9.31	13
2612.5	38175	11.11	13	2610.0	38150	10.42	13

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LTE BAND 41							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16 QAM	Limit			16 QAM	Limit
2498.5	39675	7.99	13	2501.0	39700	8.50	13
2593.0	40620	9.13	13	2593.0	40620	9.19	13
2687.5	41565	10.26	13	2685.0	41540	7.68	13

LTE BAND 41							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16 QAM	Limit			16 QAM	Limit
2503.5	39725	8.38	13	2506.0	39750	9.19	13
2593.0	40620	9.00	13	2593.0	40620	11.10	13
2682.5	41515	9.55	13	2680.0	41490	9.88	13

LTE BAND 66							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	Peak-to-		Freq. (MHz)	CH	Peak-to-	
		16QAM	Limit			16QAM	Limit
1710.7	131979	6.37	13	1711.5	131987	6.33	13
1745.0	132322	6.42	13	1745.0	132322	6.40	13
1779.3	132665	6.24	13	1778.5	132657	6.21	13

LTE BAND 66							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	Peak-to-		Freq. (MHz)	CH	Peak-to-	
		16QAM	Limit			16QAM	Limit
1712.5	131997	6.38	13	1715.0	132022	6.32	13
1745.0	132322	6.42	13	1745.0	132322	6.38	13
1777.5	132647	6.25	13	1775.0	132622	6.36	13

LTE BAND 66							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	Peak-to-		Freq. (MHz)	CH	Peak-to-	
		16QAM	Limit			16QAM	Limit
1717.5	132047	6.21	13	1720.0	132072	6.66	13
1745.0	132322	6.25	13	1745.0	132322	6.75	13
1772.5	132597	6.24	13	1770.0	132572	6.71	13

Please refer to next page for test plots.

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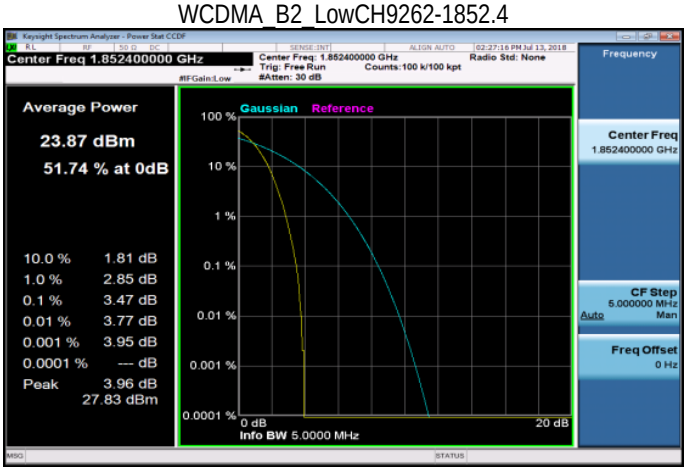

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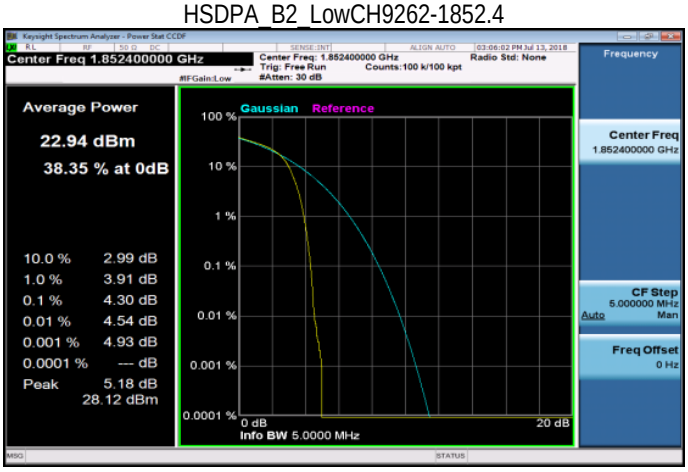

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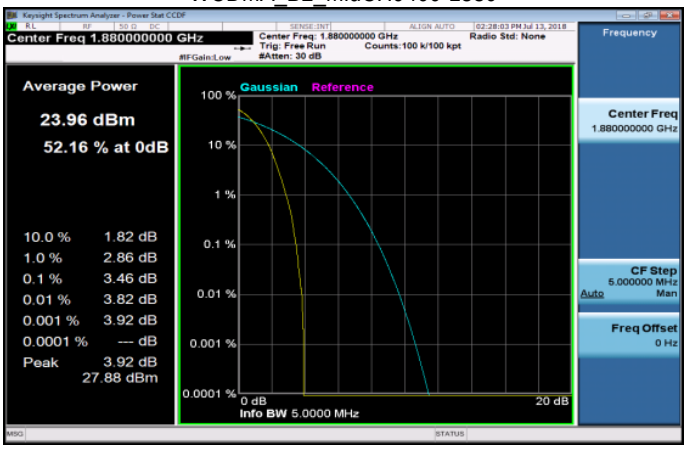

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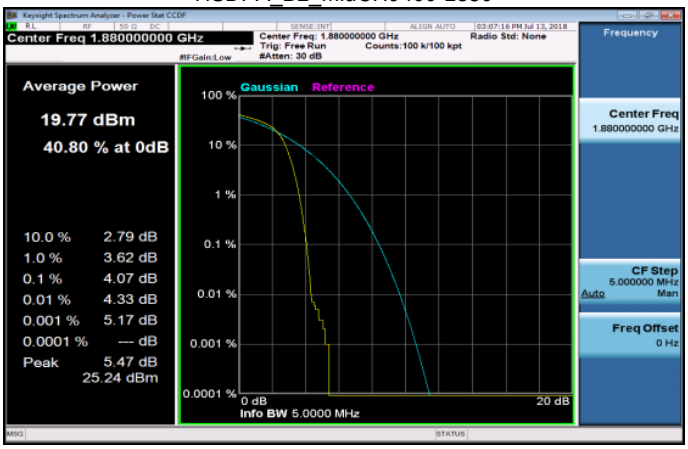

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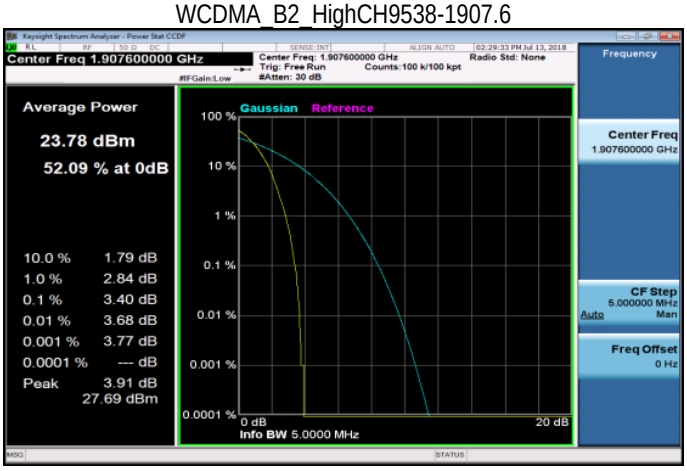

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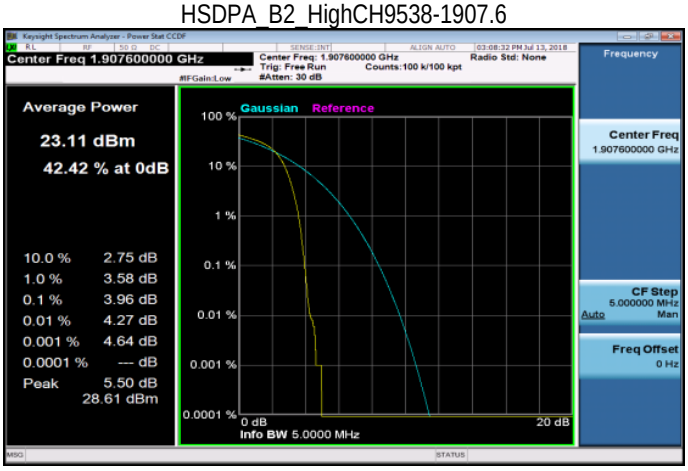

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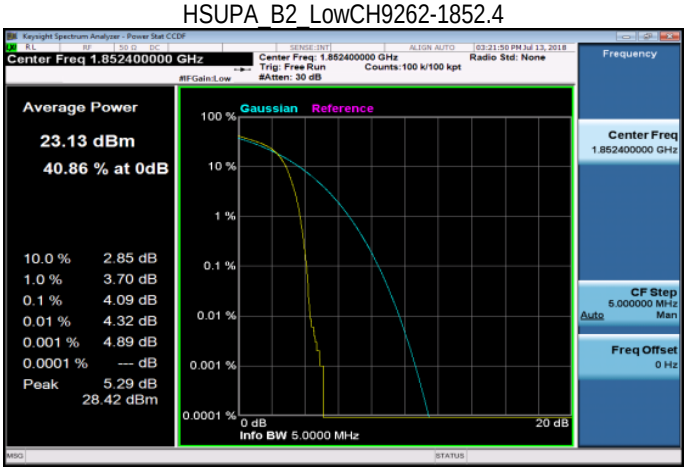

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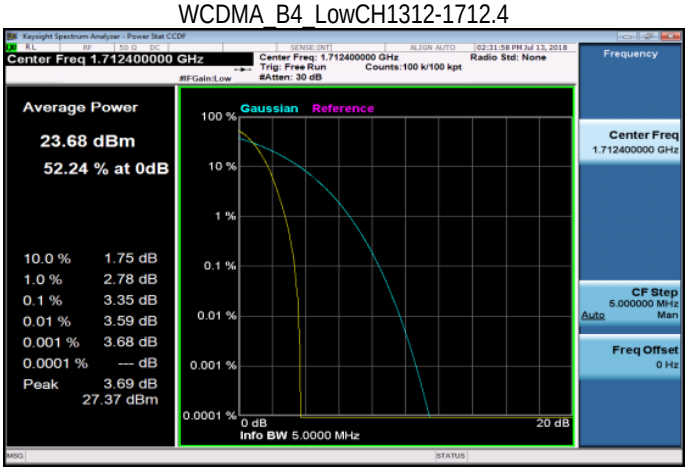

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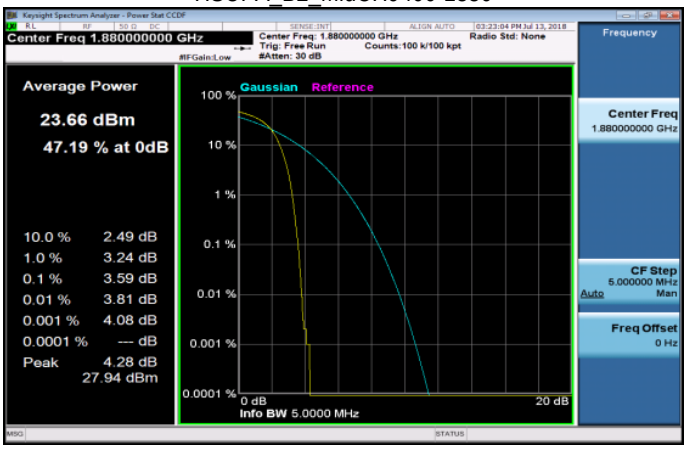

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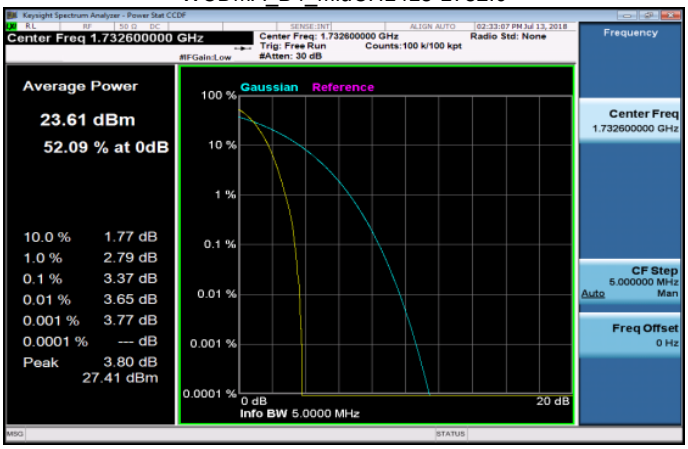

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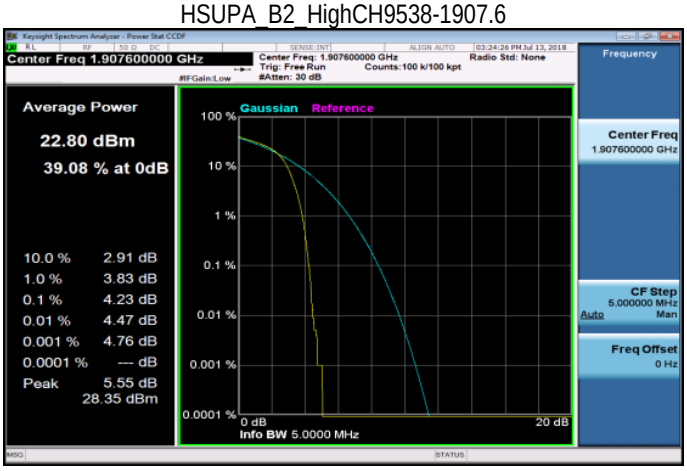

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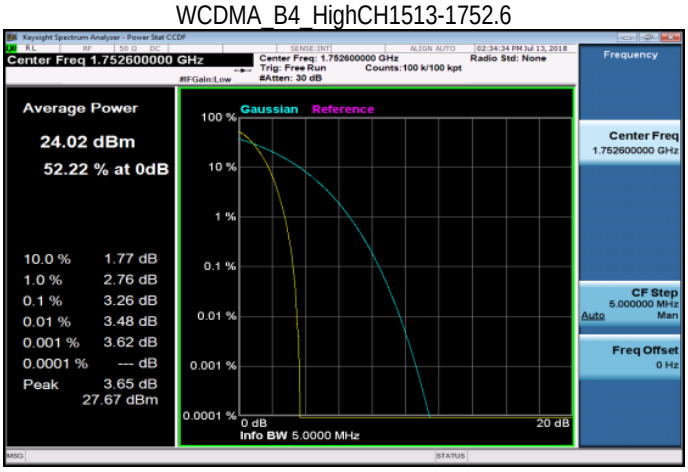

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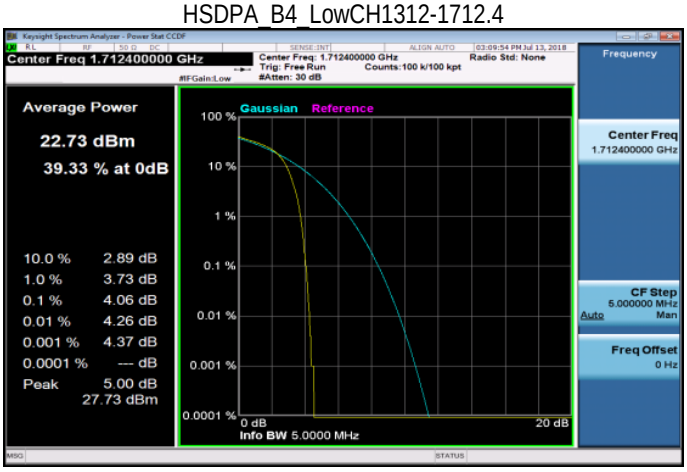

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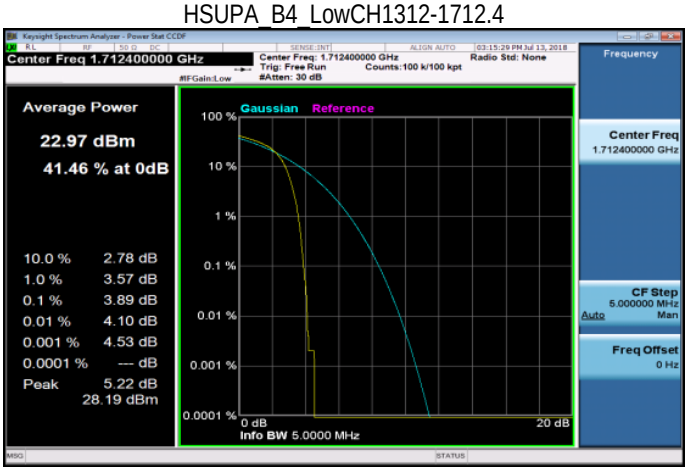

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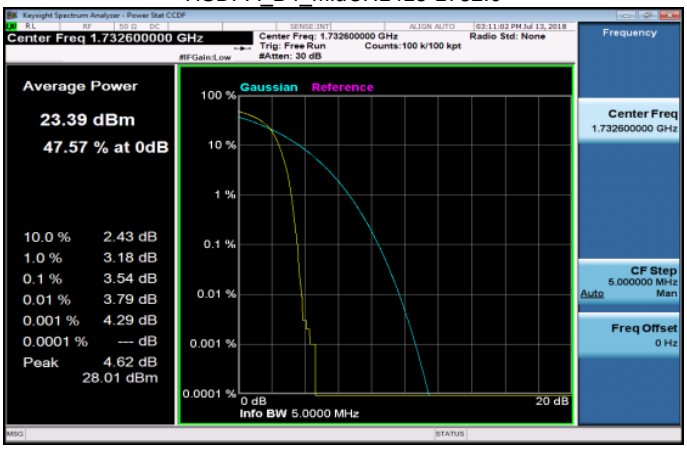

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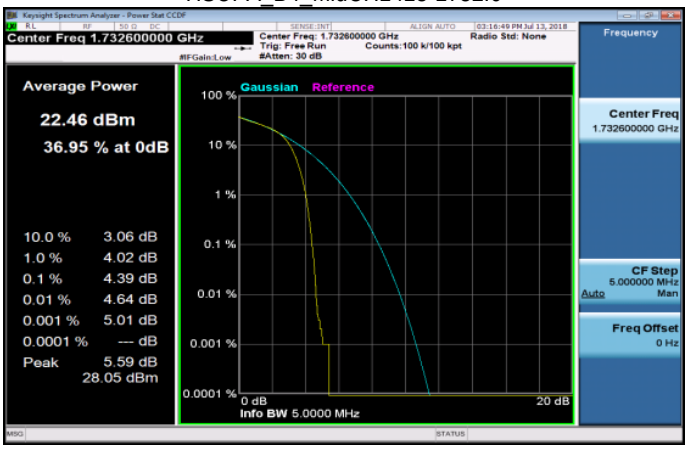
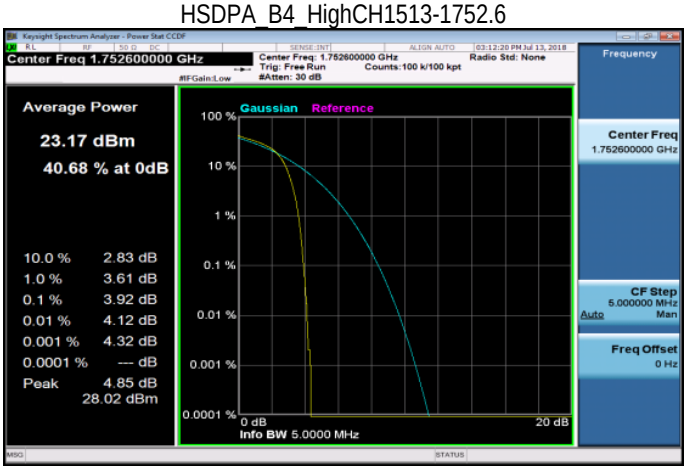
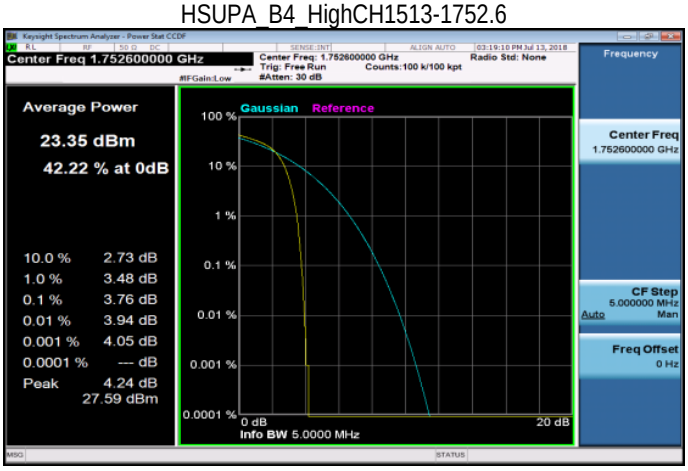


HSDPA_B4_HighCH1513-1752.6



HSUPA_B4_HighCH1513-1752.6



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
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