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APPENDIX A – TEST DATA OF CONDUCTED EMISSION

RF Power Output-FCC Part2.1046

GSM850

Antenna Gain=-2.10dBi GSM Measured Power:

Carrier frequency (MHz)	Channel No.	RF Power Output (dBm)
824.2	128	33.13
836.4	189	33.03
848.8	251	33.09

GPRS Measured Power:

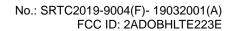
•		
Channal Na	TV Mode	RF Power Output
Channel No.	1 × Wode	(dBm)
128		33.08
189	4Downlink1uplink	32.96
251		33.04
128		30.93
189	3Downlink2uplink	30.87
251	·	30.97
128		29.12
189	2Downlink3uplink	29.18
251	•	29.21
128		27.21
189		27.18
251		27.25
	Channel No. 128 189 251 128 189 251 128 189 251 128 189 251 128 189	Channel No. TX Mode 128 4Downlink1uplink 251 3Downlink2uplink 128 3Downlink2uplink 251 251 128 2Downlink3uplink 251 128 189 2Downlink3uplink 251 128 189 1Downlink4uplink

EGPRS (GMSK) Measured Power:

Carrier frequency (MHz)	Channel No.	TX Mode	RF Power Output (dBm)
824.2	128	GMSK	33.11
836.4	189	4Downlink1uplink	32.97
848.8	251	4Downlink ruplink	33.01
824.2	128	CMSK	30.95
836.4	189	GMSK 3Downlink2uplink	30.92
848.8	251		30.99
824.2	128	CMSK	29.11
836.4	189	GMSK 2Downlink3uplink	29.07
848.8	251		29.13
824.2	128	CMCK	27.13
836.4	189	GMSK 1Downlink4uplink	27.07
848.8	251		27.11

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V1.0.0



EGPRS (8PSK) Measured Power:

Carrier frequency (MHz)	Channel No.	TX Mode	RF Power Output (dBm)
824.2	128	0DDCK	25.89
836.4	189	8DPSK	25.81
848.8	251	4Downlink1uplink	25.86
824.2	128	0DDCK	24.84
836.4	189	8DPSK 3Downlink2uplink	24.68
848.8	251		24.77
824.2	128	0DDCK	22.66
836.4	189	8DPSK 2Downlink3uplink	22.55
848.8	251		22.68
824.2	128	8DPSK 1Downlink4uplink	19.67
836.4	189		19.56
848.8	251		19.62

PCS1900

Antenna Gain=-1.40dBi

GSM Measured Power:

Carrier frequency (MHz)	Channel No.	RF Power Output (dBm)
1850.2	512	29.77
1880.0	661	29.68
1909.8	810	29.88

GPRS Measured Power:

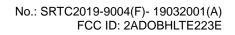
Carrier frequency (MHz)	Channel No.	TX Mode	RF Power Output (dBm)
1850.2	512		29.70
1880.0	661	4Downlink1uplink	29.66
1909.8	810		29.87
1850.2	512		27.63
1880.0	661	3Downlink2uplink	27.57
1909.8	810		27.62
1850.2	512		26.14
1880.0	661	2Downlink3uplink 26.05 26.11	26.05
1909.8	810		26.11
1850.2	512		24.12
1880.0	661		24.04
1909.8	810		24.09

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Fax: 86-10-57996388



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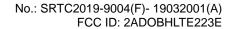


EGPRS (GMSK) Measured Power:

Carrier frequency (MHz)	Channel No.	TX Mode	RF Power Output (dBm)
1850.2	512	GMSK	29.77
1880.0	661		29.69
1909.8	810	4Downlink1uplink	29.82
1850.2	512	CMSK	27.64
1880.0	661	GMSK 3Downlink2uplink	27.57
1909.8	810		27.62
1850.2	512	CMSK	26.15
1880.0	661	GMSK 2Downlink3uplink	26.07
1909.8	810		26.09
1850.2	512	CMCK	24.13
1880.0	661	GMSK 1Downlink4uplink —	24.03
1909.8	810		24.11

EGPRS (8PSK) Measured Power:

Carrier frequency (MHz)	Channel No.	TX Mode	RF Power Output (dBm)
1850.2	512	8DPSK	26.54
1880.0	661		26.49
1909.8	810	4Downlink1uplink	26.42
1850.2	512	ODDCK	24.95
1880.0	661	8DPSK 3Downlink2uplink	24.79
1909.8	810		24.83
1850.2	512	ODDCK	22.55
1880.0	661	8DPSK	22.47
1909.8	810	2Downlink3uplink	22.43
1850.2	512	8DPSK 1Downlink4uplink	21.44
1880.0	661		21.37
1909.8	810		21.35



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Occupied Bandwidth-FCC Part2.1049

GSM850

GSM/GPRS MODE:

Carrier frequency (MHz)	Channel No.	Bandwidth of 99% Power (kHz)
824.2	128	241.42
836.4	189	242.40
848.8	251	245.32

EDGE (GMSK) MODE:

Carrier frequency (MHz)	Channel No.	Bandwidth of 99% Power (kHz)
824.2	128	243.65
836.4	189	241.53
848.8	251	241.75

EDGE (8PSK) MODE:

(- (- (- (- (- (- (- (- (- (
Carrier frequency (MHz)	Channel No.	Bandwidth of 99% Power (kHz)
824.2	128	246.46
836.4	189	247.30
848.8	251	242.74

PCS1900

GSM/GPRS MODE:

00, 01. 1.0 II.0 2 2		
Carrier frequency (MHz)	Channel No.	Bandwidth of 99% Power (kHz)
1850.2	512	238.75
1880.0	661	241.63
1909.8	810	239.96

EDGE (GMSK) MODE:

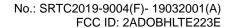
Carrier frequency (MHz)	Channel No.	Bandwidth of 99% Power (kHz)
1850.2	512	238.88
1880.0	661	242.83
1909.8	810	240.91

EDGE (8PSK) MODE:

LDOL (of ON) MODE.		
Carrier frequency (MHz)	Channel No.	Bandwidth of 99% Power (kHz)
1850.2	512	237.59
1880.0	661	241.58
1909.8	810	242.85

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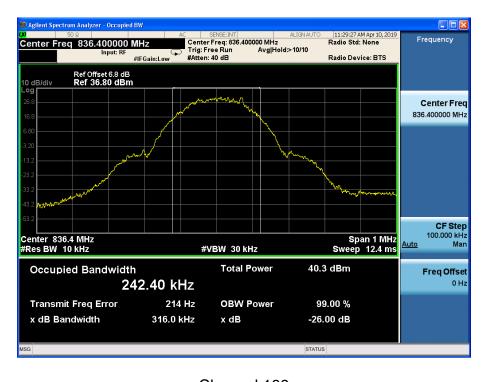


GSM850

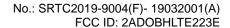
GSM/GPRS MODE:



Channel 128



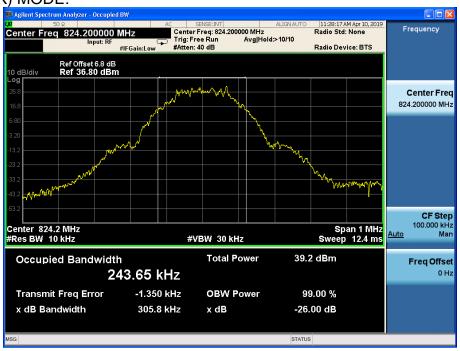
Channel 189



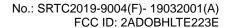




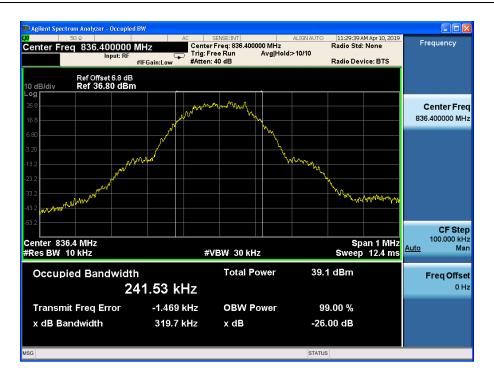
Channel 251



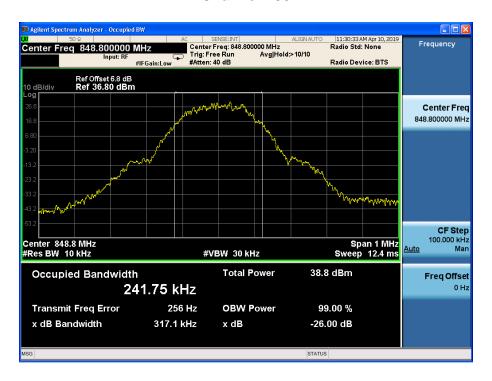
Channel 128



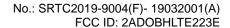




Channel 189



Channel 251





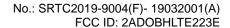
EDGE (8PSK) MODE:



Channel 128



Channel 189



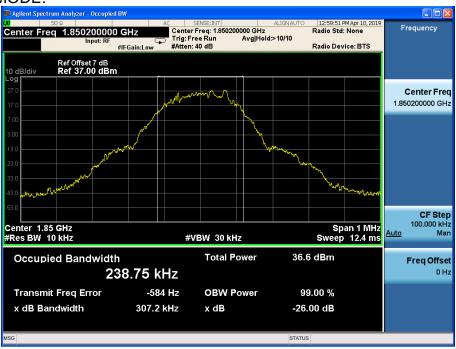




Channel 251

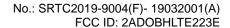
PCS1900

GSM/GPRS MODE:



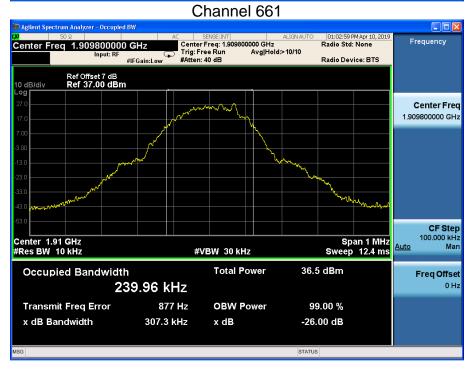
Channel 512

Page number: 34 of 57



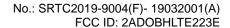




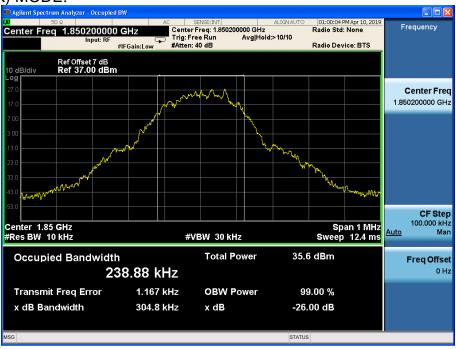


Channel 810

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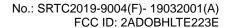




Channel 512



Channel 661







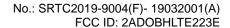
Channel 810

EDGE (8PSK) MODE:



Channel 512

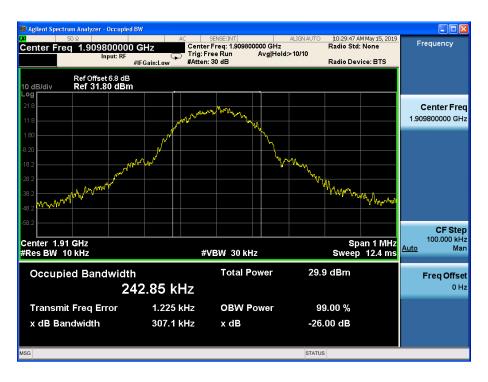
The State Radio_monitoring_center Testing Center (SRTC)







Channel 661



Channel 810

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Emission Bandwidth-FCC Part 22.917(b)/Part 24.238(b)

GSM850

GSM/GPRS MODE:

Carrier frequency (MHz)	Channel No.	Bandwidth of -26dB transmitter power (kHz)
824.2	128	319.5
836.4	189	316.0
848.8	251	310.5

EDGE (GMSK) MODE:

2002 (OMON) MODE:		
Carrier frequency (MHz)	Channel No.	Bandwidth of -26dB transmitter power (kHz)
824.2	128	305.8
836.4	189	319.7
848.8	251	317.1

EDGE (8PSK) MODE:

Carrier frequency (MHz)	Channel No.	Bandwidth of -26dB transmitter power (kHz)
824.2	128	315.6
836.4	189	318.8
848.8	251	316.6

PCS1900

GSM/GPRS MODE:

COM, CLING MICE.		
Carrier frequency (MHz)	Channel No.	Bandwidth of -26dB transmitter power (kHz)
1850.2	512	307.2
1880.0	661	310.6
1909.8	810	307.3

EDGE (GMSK) MODE:

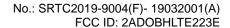
Carrier frequency (MHz)	Channel No.	Bandwidth of -26dB transmitter power (kHz)
1850.2	512	304.8
1880.0	661	301.4
1909.8	810	300.6

EDGE (8PSK) MODE:

2002 (e. 6.t.) 111022:		
Carrier frequency (MHz)	Channel No.	Bandwidth of -26dB transmitter power (kHz)
1850.2	512	299.1
1880.0	661	300.1
1909.8	810	307.1

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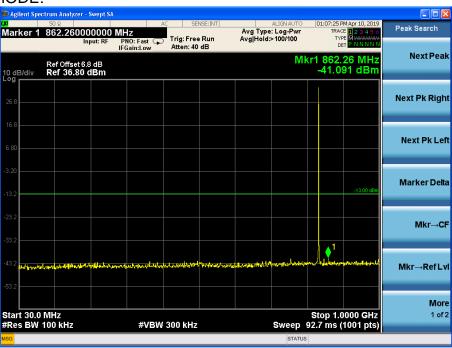
Tel: 86-10-57996183





Spurious Emissions at antenna terminal- FCC Part 2.1051/ 22.917(a) /Part 24.238(a) GSM850

GSM/GPRS MODE:

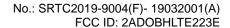


Channel 189, 30MHz~1GHz



Channel 189, 1GHz~10GHz

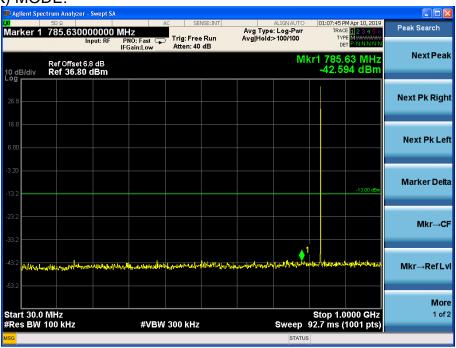
Note: The signal beyond the limit is the signal transmitted by EUT.



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EDGE (GMSK) MODE:

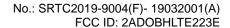


Channel 189, 30MHz~1GHz



Channel 189, 1GHz~10GHz

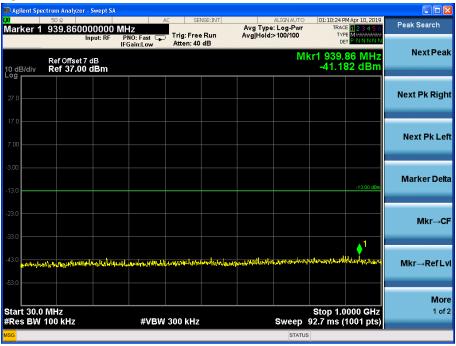
Note: The signal beyond the limit is the signal transmitted by EUT.





PCS1900

GSM/GPRS MODE:



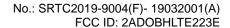
Channel 661, 30MHz~1GHz



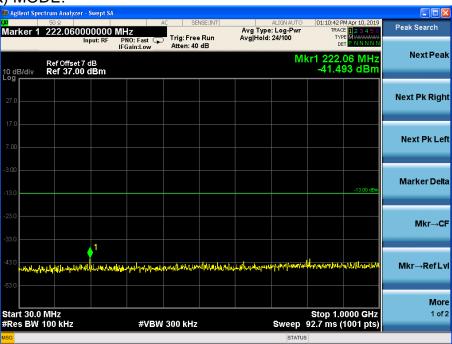
Channel 661, 1GHz~20GHz

Note: The signal beyond the limit is the signal transmitted by EUT.

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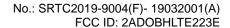


Channel 661, 30MHz~1850MHz



Channel 661, 1GHz~20GHz

Note: The signal beyond the limit is the signal transmitted by EUT.

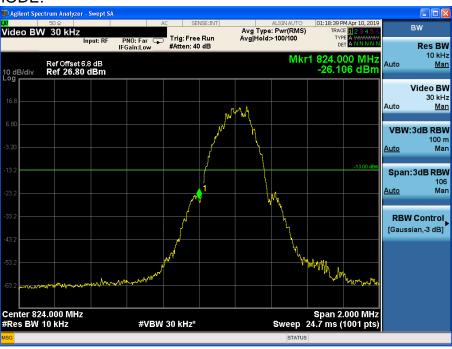




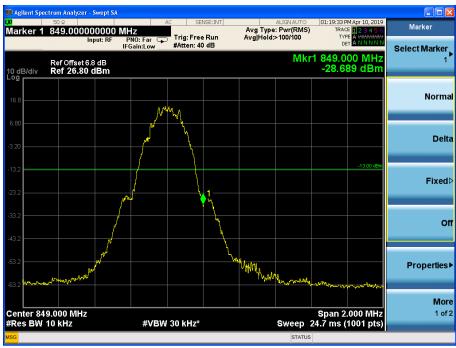
Band Edges Compliance- FCC Part 2.1051/ 22.917(a) /Part 24.238(a)

GSM850

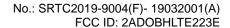
GSM/GPRS MODE:



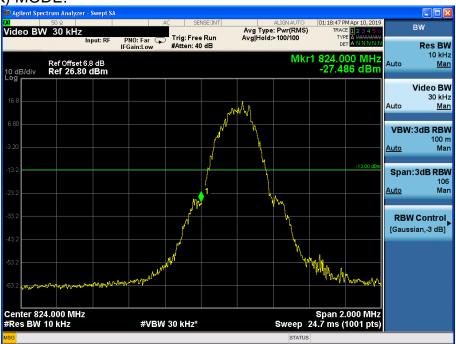
Channel 128



Channel 251



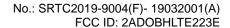




Channel 128



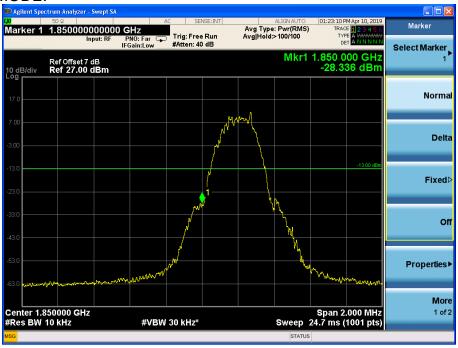
Channel 251



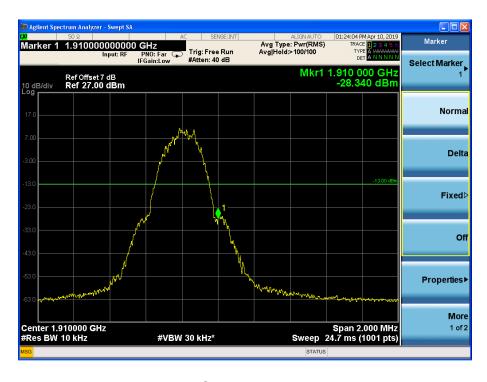


PCS1900

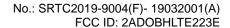
GSM/GPRS MODE:



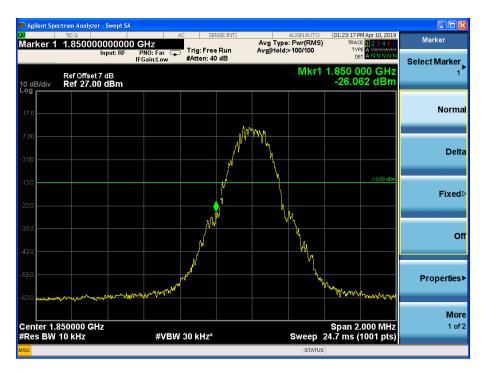
Channel 512



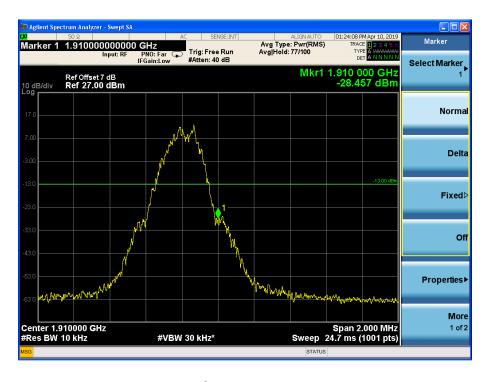
Channel 810







Channel 512



Channel 810



Frequency Stability- FCC Part 2.1055/22.355 /Part 24.235

GSM850

GSM/GPRS MODE:

GOIVI/OI NO WIODE.			
Tomporaturo(°C)	Test Result (ppm)@NV		
Temperature(°C)	Channel 128	Channel 189	Channel 251
0	0.024	-0.014	0.023
+10	0.001	0.016	0.002
+20	0.016	0.003	0.010
+30	-0.022	-0.011	-0.003
+40	0.004	0.001	-0.004
+50	-0.023	-0.009	0.000
+55	-0.007	0.009	0.005
Voltago	Test Result (ppm)@NT		
Voltage	Channel 128	Channel 189	Channel 251
LV	0.001	0.007	0.007
HV	0.015	0.007	0.006

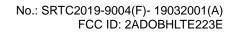
EDGE (GMSK) MODE:

Tomporaturo(°C)	Test Result (ppm)@NV		
Temperature(°C)	Channel 128	Channel 189	Channel 251
0	0.007	-0.002	-0.006
+10	0.000	0.008	-0.005
+20	0.007	-0.003	0.011
+30	-0.017	0.000	-0.012
+40	-0.015	-0.002	-0.007
+50	-0.002	0.012	0.007
+55	0.018	-0.008	0.010
Voltago	Test Result (ppm)@NT		
Voltage	Channel 128	Channel 189	Channel 251
LV	0.021	0.011	-0.014
HV	-0.012	-0.003	0.011

EDGE (8PSK) MODE:

Tomporaturo(°C)	Test Result (ppm)@NV		
Temperature(°C)	Channel 128	Channel 189	Channel 251
0	0.007	-0.012	-0.006
+10	0.000	0.008	-0.005
+20	0.007	-0.003	0.011
+30	-0.017	0.000	-0.012
+40	-0.015	-0.002	-0.007
+50	-0.002	0.012	0.007
+55	0.018	-0.005	0.010
Voltago	Test Result (ppm)@NT		
Voltage	Channel 128	Channel 189	Channel 251
LV	0.021	0.011	-0.014
HV	-0.012	-0.004	0.008

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PCS1900

GSM/GPRS MODE:

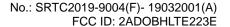
Tomporeture(°C)	Test Result (ppm)@NV		
Temperature(°C)	Channel 512	Channel 661	Channel 810
0	0.002	-0.001	-0.012
+10	-0.005	0.012	0.015
+20	0.008	0.006	0.004
+30	0.003	0.004	0.012
+40	0.014	-0.001	-0.010
+50	-0.006	0.009	-0.002
+55	0.015	-0.013	0.012
Voltage	Test Result (ppm)@NT		
voltage	Channel 512	Channel 661	Channel 810
LV	0.001	-0.002	0.006
HV	0.008	-0.008	0.011

EDGE (GMSK) MODE:

Temperature(°C)	Test Result (ppm)@NV			
	Channel 512	Channel 661	Channel 810	
0	0.019	-0.006	0.000	
+10	0.000	-0.006	0.003	
+20	0.013	-0.014	0.004	
+30	-0.010	-0.002	0.013	
+40	0.002	0.009	0.006	
+50	0.013	0.011	-0.012	
+55	-0.012	0.000	-0.006	
Voltage	Test Result (ppm)@NT			
	Channel 512	Channel 661	Channel 810	
LV	0.015	0.001	-0.010	
HV	0.010	-0.014	-0.001	

EDGE (8PSK) MODE:

Temperature(°C)	Test Result (ppm)@NV			
	Channel 512	Channel 661	Channel 810	
0	0.019	-0.006	0.000	
+10	0.000	-0.006	0.003	
+20	0.010	-0.014	0.004	
+30	-0.010	-0.002	0.012	
+40	0.002	0.009	0.006	
+50	0.005	0.004	-0.012	
+55	-0.012	0.000	-0.006	
Voltage	Test Result (ppm)@NT			
	Channel 512	Channel 661	Channel 810	
LV	0.012	0.001	-0.008	
HV	0.010	-0.011	-0.001	





Peak-Average Ratio -FCC Part 24.232(d)

GSM850

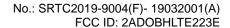
GSM/GPRS MODE:



EDGE (GMSK) MODE:



Fax: 86-10-57996388



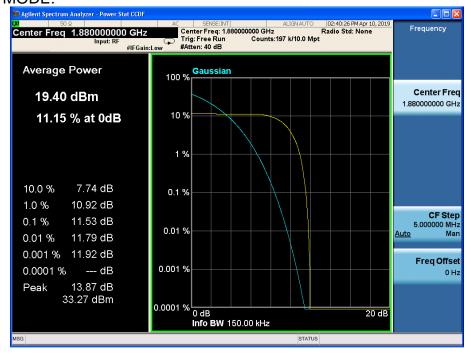


EDGE (8PSK) MODE:

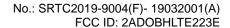


PCS1900

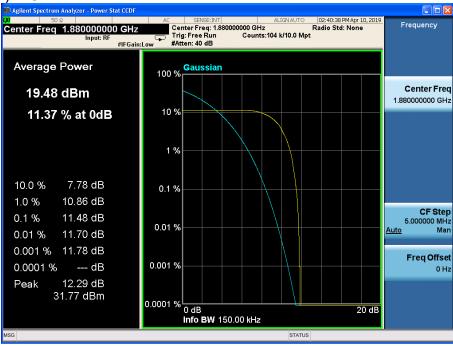
GSM/GPRS MODE:



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EDGE (8PSK) MODE:



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