## Applicant: SANYO Electric CO., LTD.

Description Info	rmation					
Subsection 2.983 (a)	Applicant	Description : SANYO ELECTRIC CO., LTD. 1-1 Sanyo cho, Daito City Osaka, Japan				
	Manufacture	: SANYO ELECT	RIC CO., LTD.			
2.983 (b)	FCC ID	: AEZSCP-49H				
2.983 (c)	Quantity	: Quantity produce	ction is planned.			
2.983 (d)	Technical Descri	ption: See Exhibit	xx			
2.983 (d)(1)	Emission Type AMPS wide band	: I mode:	40KF8W and 40K0F1D			
	PCS wide band (	CDMA mode:	1M25F9W			
2.983 (d)(2)	Frequency Rang AMPS wide band	e: I mode:	824.04 to 848.97 MHz			
	PCS wide band	CDMA mode:	1851.25 to 1908.75 MHz			
2.983 (d)(3)	Range of Operating Power: AMPS wide band mode: +7.8dBm to +24.5dBm with the Capacity of reducing the maximum power in five steps of 4 dB each on command from a land station. Each power level is maintained with in +2/-4dB of its normal level over the temperature range of $-30$ to +60 degrees Centigrade and $-0.5$ V/+0.5 V change of the Battery voltage.					
	PCS wide band CDMA mode: -50dBm to +23.5dBm with the capacity of reducing the maximum power in 73 steps of 1dB each on command from land station. A Transmitter transmits a power in two (2) state. One is an access state, another is a traffic channel state. In an access state, a power level is in proportion to an estimated receiving signal strength and is maintained with $-8dB/+7dB$ of it normal level. In traffic channel state, a power level is determined by a 1 dB up or down command from a land station, that is , a power level of next transmit timing is a current power level added or submitted 1 dB according to a command. Each power level is maintained over the temperature range of $-30$ to $+60$ degrees					

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Centigrade and -0.5 V/+0.5 V change of the Battery voltage.

	Desc	ription Information (Continued)				
Subsection	Description					
2.983 (d)(4)	Maximum Power	Rating: 0.63 Watts (AMPS wide band mode)				
		0.52 Watts (PCS wide band CDMA mode)	)			
2.983 (d)(5)	DC Voltage and	Current to the Final Amplifier Module:				
AMPS	Supply Voltage	: 3.7 V				
	Drain Voltage	: 3.7 V				
	Drain Current	: 430 mA				
CDMA	Supply Voltage	: 3.7 V				
	Drain Voltage	: 3.7 V				
	Drain Current	: 450 mA				

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Applicant:	SANYO	Electric	CO.,	LTD.	
1.1.			,		

2.983 (d)(6) Function of Active Devices: See Exhibit

(SCP-49h\_Part\_List.pdf)

	Description Inf	ormation (Continued)			
Subsection	Descripti	วท			
2.983 (d)(7)	Circuit Diagrams :				
	Transceiver Block Diagram:	See Exhibit			
		(AEZSCP-49H_block&schematic_diagram.pdf)			
	Transceiver schematic Diag	ram: See Exhibit			
		(AEZSCP-49H_block&schematic_diagram.pdf)			
2.983 (d)(8)	Operating Instruction Book:	See Exhibit			
		(AEZSCP-49H_UserGuide.pdf)			
2.983 (d)(9)	Tune-Up Procedure:	See Exhibit			
		(AEZSCP-49H_Tuning&Adjustment.pdf)			
2.983 (d)(10)	Description of Frequency Stabilization System:				
	(TCXO System)				
	The TCXO System consists of VCXO Circuit (X1400) and Mobile station modem				
	(IC210) included u-processor, DAC and AFC block.				
	With regard to the Frequency Stability:				
	The frequency of the TCXO module (X1400) is 19.2 MHz with stability less				
	than $\pm 2$ ppm over the temperature range of $-30$ to $+80$ degrees Centigrade.				
	The frequency of TCXO module can be controlled by AFC (Auto Frequency				
	Control) circuit block white	ch Mobile station Modem (IC210) includes, so that			
	the receiving frequency ag	rees with the base station transmit frequency. The			
	frequency stability of TCXO system is maintained within ± 150 Hz over the				

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temperature range of -30 to +60 degrees Centigrade.

Subsection 2.983 (d)(11)	Description Information (Continued) Description Description of Circuits for Suppression of Spurious Radiation, for Limiting Modulation, and for Limiting Power:
AMPS mode	Means for Attenuation of Spurious Emissions: Spurious and Harmonic Suppression is obtained by proper shielding techniques and the use of filters.
	Means of Limiting Modulation: This transmitter is equipped with a device, which automatically prevents Modulation in excess of 100%. This device an instantaneous deviation control circuit precedes the modulation of the transmitter. It is instantaneous in action for controlling the modulation gwave introduced into the transmitter's frequency modulator. The modulation limiter is incorporated in the Mobil Stat ion Modem LSI (IC210). IC210 includes DSP (Digital Signal Processor) and modulation signals, voice, WBD, SAT and ST is shaped by Digital Filter which DSP performs and DSP calculates modulation signals to limit modulation. The deviation limit can be set to the Channel width Requirement of ±12KHz with DSP incorporated in IC210. The deviation of wide Band Data and Signaling Tone can be set to a maximum of ±8KHz in IC210.
	Means for Limiting Power Power limiting is obtained via the Automatic Power Control (APC) Circuit. APC Circuit contains HDET, IC210 and Flash Memory. The adjustment of the transmitter's power for each of the 6 levels is made according to data stored in Flash memory IC240.
CDMA Mode	Means for Attenuation of Spurious Emissions: Spurious and Harmonic Suppression is obtained by proper shielding techniques and the use of filters.
	Means of Limiting Modulation: Modulation signals are voice signal and signaling message. The CODEC Block included IC210 digitalizes voice signal and u-processor which MSM (IC210) includes generates signaling message. Each signal is a digital signal. IC210 generates the CDMA modulation signal. Digital Filter in IC210 shapes the CDMA modulation signal to limit modulation.
	Means for Limiting Power Maximum power limiting is obtained via the Automatic Power Control (APC) Circuit. APC Circuit contains HDET, IC210 and FLASH MEMORY. The adjustment of the transmitter's power for maximum power level is made according to data stored in FLASH MEMORY IC240. EXHIBIT 5

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Subsection	Description In Descrip	nformation (Continue	ed)			
2.983 (d)(12)	Not applicable					
2.983 (e)	Standard Test Conditions The following conditions transmitter:	Standard Test Conditions: The following conditions and procedures were followed during testing of this				
	Room temperature: Room Humidity:	23 - 27 Degrees Celsiu 30 - 50%	S			
	Supply Voltage: Prior to testing, the unit w	3.6 V DC (Normal Batte was tuned-up according t	ery Voltage) o the manufacture's alignment			
	procedure. Test procedures were according to EIA/TIA specification TIA/EIA-98D. The following equipments were used for testing:					
	Equipment	Manufacture	Type No.			
2.983 (f)	Equipment Identification: Equipment's Identification (FCC Label), and in Ex showing FCC Label).	n Label and its intended hibit mm (Photograph o	Location are shown in Exhibit f Back View of Transceiver			
2.983 (g) Photo	graphs:					
	A complete set of the pho details and construction a	otographs showing extern re provided. See l	al and internal views of circuit Exhibit xx to xx.			
2.983 (h)	Not Applicable					
2.983 (i)	Not Applicable					
2.983 (j)	Not Applicable					

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Subsection	Desci	ription Ir	nformation (C	ontinued)		
2 985 (a)(c)	Description PE Power Output:					
2.000 (0)(0)	The test set -up for	NRE PON	ver Output is a	s ner Page v	of Exhibit	vv
	The Power Output	it was the	n measured	s per i age x		^^.
	Supply Voltage:	361/0	C			
	Modulation:	None	0			
	wooddiction.	Nono				
	AMPS wide band					
	Results:					
			Nominal	Power		
			Frequency	Output		
	Channel No.		(MHz)	(Watts)		
				Hi	Low	
	991		824.04			
	383		836.49			
	799		848.97			
	Note: Channel ca	pacity = 8	332			
2.985 (a)(c)	(Continued)					
	PCS wide band C	DMA mc	de:			
			Nominal	Power		
			Frequency	Output		
	Channel No.		(MHz)	(Watts)		
				Hi	Low	
	25		1851.25			
	600		1880.00			
	1175		1908.75			
	Note: Channel ca available.)	pacity =	1151 (Channel	No. 0 to 24	and 1176	to 1200 are no

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Subsection	Description Information (Continued) Description
2.987 (a)	Transmitter Audio Frequency Response:
2.987 (b)	Modulation Limiting: The results are shown in Exhibit xx.
2.987 (d)	Other types of equipment:
2.989 (c)(1)	Occupied Band width: The set-up for thee Occupied bandwidth is as per Page xx of Exhibit xx.
	Modulation Requirement
22.915 22.915 (a)	Non-voice modulation signals The results are shown in Exhibit xx.
22.915 (b)	Modulation levels The results are shown in Exhibit xx.
22.915 (c)	Deviatio limitation circuitry The results are shown in Exhibit xx.
22.915 (d)	Audio filter characteristics The results are shown in Exhibit xx.

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	Desc	cription Info	rmation (Continu	ued)		
Subsection		Description	1			
22.917	Spurious Emissi The test set-up xx of Exhibit xx. The level of th	on at Antenna for the Spurio e carrier and	a Terminal: us Emission at the d the various cor	e Antenna termina	I is as per Page and harmonic	
frequencies were measured by means of a calibrated Spectrum anal spectrum was scanned from the lowest frequency generated in the equ 10 GHz						
	(AMPS wide bar	nd CDMA)				
	Out put Power:	0.63 Watts				
	Modulation Conc Audio:	dition: Au	udio Plus SAT			
	Frequency:	2,500 Hz				
	Input level: 16 dB greater than the level to produced 6 kHz deviation. SAT:					
	Frequency:	6,000 Hz				
	Deviation:	2 kHz				
	Harmonics	Harmonics Spurious Level below Carrier (dBc) (Normal Frequency in MHz)				
		824.04	836.49	848.97		
	$2^{nd}$					
	7 <sup>th</sup> to 11 <sup>th</sup>					
	All other Spurious Readings were below –xx dBc. Limit: - (43 + 10 log 0.6) dBc = -40.8 dBc.					
	The graphs measured by the spectrum analyzer are show in Exhibit $\boldsymbol{x}\boldsymbol{x}$ .					
22.917 (f)	Spurious emission The test set -up	on at Antenna for the spurio	a TERMINAL: ous emission in th	e receiving frequ	ency band is as	
	The mean powe	r of any emis	sions appearing in	the base station	frequency range	

from the transmitter was measured by means of a calibrated spectrum analyzer.

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Applicant:	SANYO	Electric	CO	LTD.

Subsection	Description Information (Continued) Description					
24.238	The test set-up xx of Exhibit xx	for the Spurious	Emission at the A	ntenna terminal is as per Page		
	The level of the carrier and the various conducted spurious and harmonic frequencies were measured by means of a calibrated Spectrum analyzer. The spectrum was scanned from the lowest frequency generated in the equipment to 20 GHz. (PCS wide band CDMA)					
	Harmonics	Spurious Level (Normal Fre	below Carrier (de quency in MHz)	3c)		
		1851.25	1880.00	1908.75		
	2 <sup>nd</sup> 3 <sup>rd</sup> to 6 <sup>th</sup> 7 <sup>th</sup> to 11 <sup>th</sup>					
	All other Spurious Readings were below –xx dBc. Limit: - (43 + 10 log 0.2) dBc = -36.0 dBc.					
	The graphs measured by the spectrum analyzer are show in Exhibit xx.					
24.238	Spurious emission at Antenna TERMINAL: The test set -up for the spurious emission in the receiving frequency band is as per the following figure.					
	The mean power of any emissions appearing in the base station frequency range from the transmitter was measured by means of a calibrated spectrum analyzer.					

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## DESCRIPTIVE INFORMATION (Continued)

## Subsection

## Description

22.919 (a)(b)(c) Electronic Serial Number:

The transceiver FCC ID: AEZSCP-49H has an Electronic Serial Number (ESN) of 32 bit, which is uniquely written at the factory. The host component of ESN (FLASH MEMORY) is soldered to the main circuit board of the transceiver and contains encoded information of memory.

The memory includes ESN (32 bit), checksum, and an additional information. The additional information includes a random data, which depends on an individual transceiver unit.

The checksum will be used for checking whether the written ESN is correct or not. The ESN is encoded by particular method. And encoded ESN, checksum and additional information are written into the host component (FLASH MEMORY) in the transceiver unit at the factory.

The method of encoding ESN is a kind of cyclic code. The operating software within the transceiver decodes the encoded ESN and check whether the decoded ESN is correct or not. If the ESN is not correct, the software make the transceiver inoperative. Therefore, the ESN is not alterable in the field without the information of encoding method performed in the factory and the checking method. And any attempt to remove, tamper with or change ESN will render the transceiver inoperative.

FCC 96-326 The SAR (Specific Absorption Rate) measurement was performed by IDX EMC Laboratory.

The report of measurement by IDX EMC Laboratory is attached as Exhibit xx.

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