

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081523\
 Data File : VL040628.D
 Acq On : 15 Aug 2023 9:37
 Operator : SY/MD
 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 08/16/2023
 Supervised By : Mahesh Dadoda 08/16/2023

Quant Time: Aug 16 04:45:11 2023

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081523AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 16 2023

QLast Update : Wed Aug 16 04:44:10 2023

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	5.192	49	1058327	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.658	114	2951698	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.475	117	2597211	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 13.783 95 2014034 9.751 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 97.500%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.719	85	124678	0.547	ppbv	95
3) Chlorodifluoromethane	2.668	51	96866	0.557	ppbv	96
4) Chloromethane	2.806	50	39607	0.584	ppbv	100
5) Vinyl Chloride	2.912	62	37416	0.520	ppbv #	78
6) Bromomethane	3.112	94	20901m	0.551	ppbv	
7) Chloroethane	3.192	64	14189	0.540	ppbv #	79
8) Dichlorotetrafluoroethane	2.848	85	98092	0.532	ppbv	97
9) Propene	2.687	41	30445	0.565	ppbv	95
10) Heptane	7.590	43	61118	0.493	ppbv	96
11) Trichlorofluoromethane	3.555	101	94615	0.514	ppbv	95
12) 1,1,2-Trichlorotrifluoro...	4.060	101	71513m	0.529	ppbv	
13) Ethanol	3.256	45	7427m	0.575	ppbv	
14) Bromoethene	3.366	108	27830	0.502	ppbv	91
15) Acetone	3.478	43	74503	0.576	ppbv	96
16) 1,3-Butadiene	2.983	39	33936	0.527	ppbv	99
17) tert-Butyl alcohol	3.890	59	66608	0.485	ppbv	98
18) 1,1-Dichloroethene	3.880	96	32605	0.527	ppbv	95
19) Isopropyl Alcohol	3.594	45	38612	0.470	ppbv #	89
20) Methylene Chloride	3.931	84	39923	0.631	ppbv	92
21) Allyl Chloride	3.996	41	46379	0.542	ppbv	92
22) trans-1,2-Dichloroethene	4.446	96	31861	0.524	ppbv #	87
23) Vinyl Acetate	4.636	43	71941	0.509	ppbv #	90
24) 1,1-Dichloroethane	4.562	63	61795	0.490	ppbv #	96
25) Ethyl Acetate	5.214	43	130123	0.535	ppbv	99
26) Hexane	5.214	57	69815	0.594	ppbv	92
27) Carbon Disulfide	4.121	76	62336	0.445	ppbv #	88
28) Methyl tert-Butyl Ether	4.597	73	48121	0.529	ppbv #	90
29) Chloroform	5.272	83	102613	0.551	ppbv	98
30) Cyclohexane	6.610	84	48325m	0.560	ppbv	
31) cis-1,2-Dichloroethene	5.079	61	51853	0.488	ppbv	99
32) 1,1,1-Trichloroethane	6.009	97	91135	0.510	ppbv	97
34) 2-Butanone	4.803	43	74679	0.502	ppbv	95
35) Carbon Tetrachloride	6.497	117	89926	0.486	ppbv	97
36) Benzene	6.375	78	123082	0.524	ppbv #	90
37) 1,2-Dichloroethane	5.809	62	67834	0.479	ppbv #	96
38) Trichloroethene	7.301	130	45045m	0.493	ppbv	
39) 1,2-Dichloropropane	7.073	63	45885	0.514	ppbv	88
40) 1,4-Dioxane	7.324	88	11882m	0.354	ppbv	
41) Tetrahydrofuran	5.581	42	42840m	0.511	ppbv	
42) Bromodichloromethane	7.253	83	91645	0.465	ppbv	90
43) Methyl Methacrylate	7.481	69	38108m	0.434	ppbv	
44) 2,2,4-Trimethylpentane	7.333	57	185727	0.489	ppbv	94
45) t-1,3-Dichloropropene	8.719	75	27211m	0.393	ppbv	

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Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.150	75	35214	0.412	ppbv	# 84
47) 1,1,2-Trichloroethane	8.909	97	51529m	0.510	ppbv	
48) Dibromochloromethane	9.716	129	68303m	0.432	ppbv	
49) Bromoform	12.413	173	55941m	0.443	ppbv	
50) 4-Methyl-2-Pentanone	8.211	43	99572m	0.457	ppbv	
51) 2-Hexanone	9.587	43	63277m	0.414	ppbv	
52) Tetrachloroethene	10.629	164	39988m	0.544	ppbv	
53) Toluene	9.230	91	109784	0.440	ppbv	100
54) 1,2-Dibromoethane	10.021	107	66456m	0.548	ppbv	
56) 1,1,1,2-Tetrachloroethane	11.520	131	64824m	0.539	ppbv	
57) Chlorobenzene	11.532	112	108805	0.543	ppbv	97
58) Ethyl Benzene	12.102	91	135635	0.433	ppbv	94
59) m/p-Xylene	12.381	91	271821m	0.952	ppbv	
60) o-Xylene	13.069	91	123084	0.455	ppbv	100
61) Styrene	12.915	104	42045m	0.354	ppbv	
62) Isopropylbenzene	14.044	105	206533m	0.504	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.063	83	107867	0.526	ppbv	95
64) n-propylbenzene	14.931	120	50364m	0.486	ppbv	
65) tert-Butylbenzene	16.098	119	166710	0.469	ppbv	94
66) Benzyl Chloride	16.343	91	18746m	0.423	ppbv	
67) sec-Butylbenzene	16.645	105	251323	0.485	ppbv	100
69) p-Isopropyltoluene	17.005	119	186245	0.459	ppbv	97
70) n-Butylbenzene	17.902	91	194799	0.440	ppbv	98
71) 2-Chlorotoluene	14.815	91	137680	0.453	ppbv	99
72) 4-Ethyltoluene	15.204	105	133092	0.435	ppbv	# 95
73) 1,3,5-Trimethylbenzene	15.365	105	129066m	0.473	ppbv	
74) 1,2,4-Trimethylbenzene	16.121	105	157180	0.493	ppbv	94
75) 1,3-Dichlorobenzene	16.339	146	96709m	0.525	ppbv	
76) 1,4-Dichlorobenzene	16.487	146	98913m	0.537	ppbv	
77) 1,2-Dichlorobenzene	17.156	146	98445m	0.544	ppbv	
78) Hexachloro-1,3-Butadiene	22.651	225	78467m	0.570	ppbv	
79) Naphthalene	21.403	128	93331m	0.437	ppbv	
80) Naphthalene,2-methyl-	24.387	142	17120m	0.300	ppbv	
81) 1,2,4-Trichlorobenzene	21.159	180	64511m	0.465	ppbv	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

