

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031523\
 Data File : VL040282.D
 Acq On : 15 Mar 2023 13:30
 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 03/16/2023
 Supervised By : Mahesh Dadoda 03/16/2023

Quant Time: Mar 15 14:03:45 2023

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL031523AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Tue Mar 14 04:52:39 2023

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.192	49	1079735	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.658	114	2894578	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.478	117	2579491	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 13.790 95 2175181 10.255 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 102.500%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.726	85	128943	0.641	ppbv	99
3) Chlorodifluoromethane	2.671	51	73436	0.569	ppbv	99
4) Chloromethane	2.813	50	42610	0.526	ppbv	90
5) Vinyl Chloride	2.915	62	33494	0.514	ppbv	95
6) Bromomethane	3.118	94	11604	0.494	ppbv	92
7) Chloroethane	3.195	64	13099	0.507	ppbv	100
8) Dichlorotetrafluoroethane	2.854	85	99175	0.572	ppbv	99
9) Propene	2.690	41	27630	0.526	ppbv	97
10) Heptane	7.590	43	57961m	0.463	ppbv	
11) Trichlorofluoromethane	3.558	101	101122	0.560	ppbv	95
12) 1,1,2-Trichlorotrifluo...	4.066	101	75483	0.567	ppbv	96
13) Ethanol	3.253	45	2313m	0.478	ppbv	
14) Bromoethene	3.366	108	27008	0.529	ppbv #	89
15) Acetone	3.481	43	69886	0.538	ppbv	93
16) 1,3-Butadiene	2.983	39	28867	0.486	ppbv	90
17) tert-Butyl alcohol	3.899	59	66884	0.564	ppbv	98
18) 1,1-Dichloroethene	3.877	96	29484	0.509	ppbv	88
19) Isopropyl Alcohol	3.591	45	33668	0.545	ppbv #	92
20) Methylene Chloride	3.935	84	32233	0.476	ppbv	93
21) Allyl Chloride	3.999	41	40276	0.505	ppbv	90
22) trans-1,2-Dichloroethene	4.446	96	30687	0.512	ppbv	88
23) Vinyl Acetate	4.636	43	18220m	0.462	ppbv	
24) 1,1-Dichloroethane	4.568	63	67995	0.551	ppbv	98
25) Ethyl Acetate	5.218	43	126631	0.524	ppbv	98
26) Hexane	5.214	57	52480	0.506	ppbv	92
27) Carbon Disulfide	4.124	76	61853	0.470	ppbv #	82
28) Methyl tert-Butyl Ether	4.597	73	59879	0.539	ppbv	97
29) Chloroform	5.275	83	95098	0.534	ppbv	98
30) Cyclohexane	6.603	84	37022m	0.454	ppbv	
31) cis-1,2-Dichloroethene	5.079	61	48501	0.492	ppbv	94
32) 1,1,1-Trichloroethane	6.005	97	90005	0.538	ppbv	99
34) 2-Butanone	4.803	43	68630	0.481	ppbv	95
35) Carbon Tetrachloride	6.494	117	88627	0.518	ppbv	95
36) Benzene	6.378	78	106980m	0.475	ppbv	
37) 1,2-Dichloroethane	5.812	62	72953	0.518	ppbv	99
38) Trichloroethene	7.295	130	58557	0.472	ppbv	91
39) 1,2-Dichloropropane	7.076	63	44128m	0.504	ppbv	
40) 1,4-Dioxane	7.324	88	17769m	0.507	ppbv	
41) Tetrahydrofuran	5.591	42	37119m	0.449	ppbv	
42) Bromodichloromethane	7.253	83	92486	0.476	ppbv	95
43) Methyl Methacrylate	7.484	69	34097m	0.409	ppbv	
44) 2,2,4-Trimethylpentane	7.333	57	174712	0.465	ppbv	94
45) t-1,3-Dichloropropene	8.719	75	26175	0.354	ppbv	99

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QLast Update : Tue Mar 14 04:52:39 2023

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.147	75	38810	0.377	ppbv #	82
47) 1,1,2-Trichloroethane	8.909	97	44275	0.467	ppbv	96
48) Dibromochloromethane	9.719	129	65972m	0.435	ppbv	
49) Bromoform	12.417	173	46705m	0.395	ppbv	
50) 4-Methyl-2-Pentanone	8.208	43	97244	0.439	ppbv	97
51) 2-Hexanone	9.587	43	70327m	0.412	ppbv	
52) Tetrachloroethene	10.626	164	32842m	0.467	ppbv	
53) Toluene	9.230	91	93705	0.388	ppbv	99
54) 1,2-Dibromoethane	10.015	107	43796m	0.444	ppbv	
56) 1,1,1,2-Tetrachloroethane	11.520	131	53510	0.494	ppbv #	1
57) Chlorobenzene	11.532	112	90964	0.483	ppbv	96
58) Ethyl Benzene	12.098	91	119476	0.381	ppbv	90
59) m/p-Xylene	12.384	91	243891m	0.879	ppbv	
60) o-Xylene	13.066	91	114793m	0.430	ppbv	
61) Styrene	12.909	104	48398m	0.345	ppbv	
62) Isopropylbenzene	14.040	105	169868	0.443	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.066	83	48749m	0.506	ppbv	
64) n-propylbenzene	14.928	120	41449m	0.437	ppbv	
65) tert-Butylbenzene	16.105	119	142957	0.429	ppbv	93
66) Benzyl Chloride	16.352	91	9595m	0.433	ppbv	
67) sec-Butylbenzene	16.651	105	205511	0.430	ppbv	99
69) p-Isopropyltoluene	17.011	119	149805	0.395	ppbv	97
70) n-Butylbenzene	17.905	91	170885	0.416	ppbv	96
71) 2-Chlorotoluene	14.815	91	123740	0.422	ppbv	98
72) 4-Ethyltoluene	15.208	105	118145	0.400	ppbv	98
73) 1,3,5-Trimethylbenzene	15.365	105	115264m	0.420	ppbv	
74) 1,2,4-Trimethylbenzene	16.117	105	136747m	0.453	ppbv	
75) 1,3-Dichlorobenzene	16.349	146	76921m	0.466	ppbv	
76) 1,4-Dichlorobenzene	16.487	146	71142m	0.440	ppbv	
77) 1,2-Dichlorobenzene	17.162	146	76199m	0.464	ppbv	
78) Hexachloro-1,3-Butadiene	22.654	225	55852m	0.496	ppbv	
79) Naphthalene	21.419	128	66142m	0.390	ppbv	
80) Naphthalene,2-methyl-	24.400	142	13238m	0.275	ppbv	
81) 1,2,4-Trichlorobenzene	21.165	180	42147m	0.397	ppbv	

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

