

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110121\
 Data File : VL037933.D
 Acq On : 1 Nov 2021 8:44
 Operator : SY/AP
 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 11/05/2021
 Supervised By : Mahesh Dadoda 11/10/2021

Quant Time: Nov 01 11:09:20 2021

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL110121AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Nov 01 11:08:47 2021

QLast Update : Mon Nov 01 11:08:47 2021

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.668	49	1597000	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	7.169	114	4637690	10.000	ppbv	0.00
55) Chlorobenzene-d5	12.079	117	4061672	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 14.410 95 3052663 10.747 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 107.500%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.054	85	153356	0.601	ppbv	95
3) Chlorodifluoromethane	2.996	51	163687	0.533	ppbv	99
4) Chloromethane	3.147	50	58989	0.525	ppbv	92
5) Vinyl Chloride	3.259	62	55014	0.534	ppbv	91
6) Bromomethane	3.478	94	34548m	0.620	ppbv	
7) Chloroethane	3.558	64	16780	0.443	ppbv #	83
8) Dichlorotetrafluoroethane	3.195	85	144792m	0.574	ppbv	
9) Propene	3.015	41	41172	0.365	ppbv	84
10) Heptane	8.118	43	106180	0.414	ppbv	99
11) Trichlorofluoromethane	3.957	101	120249	0.528	ppbv	92
12) 1,1,2-Trichlorotrifluoro...	4.488	101	94953	0.551	ppbv	98
13) Ethanol	3.623	45	6044m	0.655	ppbv	
14) Bromoethene	3.745	108	38719	0.511	ppbv #	90
15) Acetone	3.874	43	64844m	0.452	ppbv	
16) 1,3-Butadiene	3.333	39	50265m	0.482	ppbv	
17) tert-Butyl alcohol	4.311	59	69939m	0.474	ppbv	
18) 1,1-Dichloroethene	4.295	96	39016	0.498	ppbv	96
19) Isopropyl Alcohol	3.989	45	43073m	0.483	ppbv	
20) Methylene Chloride	4.346	84	45265m	0.625	ppbv	
21) Allyl Chloride	4.414	41	66135m	0.521	ppbv	
22) trans-1,2-Dichloroethene	4.883	96	42875m	0.544	ppbv	
23) Vinyl Acetate	5.089	43	96145m	0.448	ppbv	
24) 1,1-Dichloroethane	5.012	63	80535	0.515	ppbv #	93
25) Ethyl Acetate	5.687	43	194557m	0.484	ppbv	
26) Hexane	5.687	57	88267m	0.446	ppbv	
27) Carbon Disulfide	4.555	76	91054	0.519	ppbv #	93
28) Methyl tert-Butyl Ether	5.050	73	79373	0.481	ppbv	92
29) Chloroform	5.748	83	150141m	0.530	ppbv	
30) Cyclohexane	7.131	84	79491m	0.473	ppbv	
31) cis-1,2-Dichloroethene	5.546	61	77942m	0.433	ppbv	
32) 1,1,1-Trichloroethane	6.510	97	134998	0.503	ppbv	98
34) 2-Butanone	5.266	43	79394m	0.424	ppbv	
35) Carbon Tetrachloride	7.015	117	130052	0.494	ppbv	94
36) Benzene	6.890	78	171043	0.432	ppbv	97
37) 1,2-Dichloroethane	6.308	62	87072	0.467	ppbv	98
38) Trichloroethene	7.828	130	70866m	0.453	ppbv	
39) 1,2-Dichloropropane	7.613	63	65820	0.442	ppbv	97
40) 1,4-Dioxane	7.867	88	17570m	0.471	ppbv	
41) Tetrahydrofuran	6.079	42	30783m	0.336	ppbv	
42) Bromodichloromethane	7.787	83	127382	0.465	ppbv #	99
43) Methyl Methacrylate	8.018	69	45305m	0.350	ppbv	
44) 2,2,4-Trimethylpentane	7.870	57	293942m	0.442	ppbv	
45) t-1,3-Dichloropropene	9.282	75	30150m	0.339	ppbv	

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.693	75	43391m	0.352	ppbv	
47) 1,1,2-Trichloroethane	9.465	97	81213m	0.501	ppbv	
48) Dibromochloromethane	10.295	129	101892m	0.441	ppbv	
49) Bromoform	13.034	173	74887m	0.424	ppbv	
50) 4-Methyl-2-Pentanone	8.767	43	87717m	0.360	ppbv	
51) 2-Hexanone	10.156	43	30274m	0.278	ppbv	
52) Tetrachloroethene	11.221	164	63837m	0.414	ppbv	
53) Toluene	9.806	91	147546	0.336	ppbv	100
54) 1,2-Dibromoethane	10.600	107	87230	0.399	ppbv	90
56) 1,1,1,2-Tetrachloroethane	12.118	131	89813m	0.534	ppbv	
57) Chlorobenzene	12.137	112	174901	0.525	ppbv #	91
58) Ethyl Benzene	12.709	91	196124	0.360	ppbv	98
59) m/p-Xylene	12.983	91	402600m	0.860	ppbv	
60) o-Xylene	13.687	91	176391	0.393	ppbv	97
61) Styrene	13.520	104	61200m	0.282	ppbv	
62) Isopropylbenzene	14.661	105	288060	0.460	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.671	83	169299	0.489	ppbv	92
64) n-propylbenzene	15.555	120	62686	0.402	ppbv #	61
65) tert-Butylbenzene	16.735	119	241840	0.439	ppbv	93
66) Benzyl Chloride	16.986	91	9816m	0.361	ppbv	
67) sec-Butylbenzene	17.285	105	342043	0.454	ppbv	96
69) p-Isopropyltoluene	17.645	119	236440	0.388	ppbv	95
70) n-Butylbenzene	18.542	91	238817m	0.413	ppbv	
71) 2-Chlorotoluene	15.445	91	187472	0.424	ppbv	98
72) 4-Ethyltoluene	15.831	105	195891	0.385	ppbv #	94
73) 1,3,5-Trimethylbenzene	15.992	105	193780	0.419	ppbv	98
74) 1,2,4-Trimethylbenzene	16.748	105	221006	0.455	ppbv #	85
75) 1,3-Dichlorobenzene	16.986	146	153370m	0.509	ppbv	
76) 1,4-Dichlorobenzene	17.134	146	144011m	0.501	ppbv	
77) 1,2-Dichlorobenzene	17.805	146	142123m	0.491	ppbv	
78) Hexachloro-1,3-Butadiene	23.358	225	136472m	0.578	ppbv	
79) Naphthalene	22.188	128	78381m	0.263	ppbv	
80) Naphthalene,2-methyl-	24.982	142	11346m	0.142	ppbv	
81) 1,2,4-Trichlorobenzene	21.921	180	71169m	0.374	ppbv	

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

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