

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110222\
 Data File : VL039813.D
 Acq On : 2 Nov 2022 12:39
 Operator : SY/AP
 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

Quant Time: Nov 02 13:18:19 2022

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL110222AIR.M

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

QLast Update : Wed Nov 02 11:28:32 2022

Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 11/03/2022
 Supervised By : Mahesh Dadoda 11/03/2022

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

Internal Standards						
1) Bromochloromethane	5.189	49	1086280	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.645	114	2957924	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.449	117	2753224	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.761	95	2067625	10.557	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	= 105.600%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.742	85	94931	0.835	ppbv	91
3) Chlorodifluoromethane	2.687	51	66774	0.512	ppbv	100
4) Chloromethane	2.822	50	39147	0.479	ppbv	97
5) Vinyl Chloride	2.928	62	31527	0.465	ppbv	90
6) Bromomethane	3.131	94	12148m	0.499	ppbv	
7) Chloroethane	3.201	64	12885m	0.530	ppbv	
8) Dichlorotetrafluoroethane	2.867	85	76454	0.515	ppbv	98
9) Propene	2.706	41	35271m	0.629	ppbv	
10) Heptane	7.571	43	76146	0.567	ppbv	92
11) Trichlorofluoromethane	3.571	101	75587m	0.476	ppbv	
12) 1,1,2-Trichlorotrifluo...	4.070	101	51226	0.416	ppbv	95
13) Ethanol	3.263	45	2106m	0.523	ppbv	
14) Bromoethene	3.375	108	23776m	0.486	ppbv	
15) Acetone	3.488	43	75022m	0.578	ppbv	
16) 1,3-Butadiene	2.996	39	29013	0.452	ppbv	92
17) tert-Butyl alcohol	3.902	59	61260m	0.579	ppbv	
18) 1,1-Dichloroethene	3.883	96	24406m	0.450	ppbv	
19) Isopropyl Alcohol	3.603	45	34573m	0.569	ppbv	
20) Methylene Chloride	3.938	84	27851m	0.564	ppbv	
21) Allyl Chloride	3.999	41	43422	0.517	ppbv	98
22) trans-1,2-Dichloroethene	4.446	96	22994	0.408	ppbv #	79
23) Vinyl Acetate	4.632	43	23357m	0.467	ppbv	
24) 1,1-Dichloroethane	4.565	63	51924m	0.446	ppbv	
25) Ethyl Acetate	5.211	43	126518	0.499	ppbv #	92
26) Hexane	5.214	57	60235	0.571	ppbv	95
27) Carbon Disulfide	4.124	76	55688	0.445	ppbv #	44
28) Methyl tert-Butyl Ether	4.603	73	53493	0.583	ppbv	91
29) Chloroform	5.272	83	84037	0.507	ppbv	90
30) Cyclohexane	6.597	84	50638m	0.586	ppbv	
31) cis-1,2-Dichloroethene	5.073	61	51429m	0.505	ppbv	
32) 1,1,1-Trichloroethane	5.999	97	84090	0.559	ppbv	98
34) 2-Butanone	4.799	43	61643m	0.443	ppbv	
35) Carbon Tetrachloride	6.481	117	87548m	0.519	ppbv	
36) Benzene	6.362	78	121054	0.531	ppbv	96
37) 1,2-Dichloroethane	5.799	62	55390	0.448	ppbv #	92
38) Trichloroethene	7.278	130	67348m	0.524	ppbv	
39) 1,2-Dichloropropane	7.063	63	49919m	0.569	ppbv	
40) 1,4-Dioxane	7.314	88	18210m	0.609	ppbv	
41) Tetrahydrofuran	5.584	42	50549m	0.585	ppbv	
42) Bromodichloromethane	7.237	83	91794m	0.527	ppbv	
43) Methyl Methacrylate	7.465	69	48831m	0.616	ppbv	
44) 2,2,4-Trimethylpentane	7.317	57	212897	0.559	ppbv	98
45) t-1,3-Dichloropropene	8.700	75	38703	0.574	ppbv	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
46) cis-1,3-Dichloropropene	8.134	75	56812	0.587	ppbv	#	93
47) 1,1,2-Trichloroethane	8.889	97	49061m	0.522	ppbv		
48) Dibromochloromethane	9.696	129	78145m	0.517	ppbv		
49) Bromoform	12.388	173	59669	0.484	ppbv		94
50) 4-Methyl-2-Pentanone	8.192	43	119837m	0.549	ppbv		
51) 2-Hexanone	9.558	43	88834m	0.556	ppbv		
52) Tetrachloroethene	10.603	164	46301m	0.543	ppbv		
53) Toluene	9.208	91	143498m	0.601	ppbv		
54) 1,2-Dibromoethane	9.995	107	55056m	0.577	ppbv		
56) 1,1,1,2-Tetrachloroethane	11.491	131	60371m	0.518	ppbv		
57) Chlorobenzene	11.507	112	108774	0.515	ppbv	#	87
58) Ethyl Benzene	12.076	91	186489	0.595	ppbv	#	88
59) m/p-Xylene	12.362	91	325168m	1.149	ppbv		
60) o-Xylene	13.047	91	152878	0.576	ppbv		99
61) Styrene	12.883	104	86814	0.623	ppbv		99
62) Isopropylbenzene	14.015	105	217942	0.537	ppbv		99
63) 1,1,2,2-Tetrachloroethane	13.034	83	52819m	0.473	ppbv		
64) n-propylbenzene	14.902	120	58240m	0.567	ppbv		
65) tert-Butylbenzene	16.076	119	194576	0.551	ppbv		97
66) Benzyl Chloride	16.310	91	20208m	0.806	ppbv		
67) sec-Butylbenzene	16.622	105	262799	0.528	ppbv		100
69) p-Isopropyltoluene	16.985	119	216668m	0.538	ppbv		
70) n-Butylbenzene	17.876	91	200407	0.520	ppbv		98
71) 2-Chlorotoluene	14.783	91	166206	0.590	ppbv		99
72) 4-Ethyltoluene	15.185	105	162307	0.531	ppbv		98
73) 1,3,5-Trimethylbenzene	15.339	105	146436	0.535	ppbv		99
74) 1,2,4-Trimethylbenzene	16.095	105	155871	0.503	ppbv		94
75) 1,3-Dichlorobenzene	16.317	146	88765m	0.472	ppbv		
76) 1,4-Dichlorobenzene	16.458	146	91823m	0.512	ppbv		
77) 1,2-Dichlorobenzene	17.130	146	84341	0.470	ppbv		95
78) Hexachloro-1,3-Butadiene	22.622	225	69804m	0.511	ppbv		
79) Naphthalene	21.371	128	112012m	0.591	ppbv		
80) Naphthalene,2-methyl-	24.371	142	37866m	0.588	ppbv		
81) 1,2,4-Trichlorobenzene	21.133	180	65428m	0.522	ppbv		

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

