

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL012324\
 Data File : VL040993.D
 Acq On : 23 Jan 2024 11:38
 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 01/24/2024
 Supervised By :Mahesh Dadoda 01/24/2024

Quant Time: Jan 23 12:11:34 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL012324AIR.M

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

QLast Update : Tue Jan 23 11:01:31 2024

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.153	49	974237	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.613	114	2728477	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.423	117	2409850	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 13.732 95 1821198 10.260 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 102.600%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.700	85	124032	0.668	ppbv	94
3) Chlorodifluoromethane	2.642	51	90796	0.619	ppbv	100
4) Chloromethane	2.783	50	35669	0.660	ppbv	89
5) Vinyl Chloride	2.886	62	33398	0.640	ppbv	92
6) Bromomethane	3.086	94	14000	0.605	ppbv	99
7) Chloroethane	3.163	64	11525	0.620	ppbv	96
8) Dichlorotetrafluoroethane	2.825	85	92460	0.692	ppbv	100
9) Propene	2.661	41	29234	0.604	ppbv	96
10) Heptane	7.539	43	67404	0.561	ppbv	94
11) Trichlorofluoromethane	3.529	101	94343	0.650	ppbv	99
12) 1,1,2-Trichlorotrifluo...	4.028	101	70129	0.622	ppbv	99
13) Ethanol	3.224	45	6072	0.498	ppbv #	57
14) Bromoethene	3.333	108	25880	0.627	ppbv	96
15) Acetone	3.449	43	72757	0.623	ppbv	97
16) 1,3-Butadiene	2.951	39	32336	0.643	ppbv	97
17) tert-Butyl alcohol	3.861	59	51169	0.592	ppbv #	91
18) 1,1-Dichloroethene	3.845	96	28065	0.603	ppbv	97
19) Isopropyl Alcohol	3.565	45	39974	0.656	ppbv #	93
20) Methylene Chloride	3.896	84	30857	0.741	ppbv	95
21) Allyl Chloride	3.960	41	38198	0.553	ppbv	88
22) trans-1,2-Dichloroethene	4.414	96	31100	0.586	ppbv	86
23) Vinyl Acetate	4.600	43	62165	0.482	ppbv #	89
24) 1,1-Dichloroethane	4.529	63	64969	0.563	ppbv	98
25) Ethyl Acetate	5.176	43	116466	0.575	ppbv	98
26) Hexane	5.176	57	49505	0.552	ppbv	92
27) Carbon Disulfide	4.095	76	62707m	0.516	ppbv	
28) Methyl tert-Butyl Ether	4.568	73	43241m	0.519	ppbv	
29) Chloroform	5.237	83	93380	0.617	ppbv	94
30) Cyclohexane	6.561	84	40226	0.538	ppbv	93
31) cis-1,2-Dichloroethene	5.041	61	45882	0.498	ppbv	92
32) 1,1,1-Trichloroethane	5.960	97	92726m	0.633	ppbv	
34) 2-Butanone	4.764	43	64650	0.448	ppbv	95
35) Carbon Tetrachloride	6.452	117	92722	0.543	ppbv	86
36) Benzene	6.330	78	111431	0.522	ppbv	94
37) 1,2-Dichloroethane	5.770	62	67584	0.529	ppbv	98
38) Trichloroethene	7.250	130	43592m	0.544	ppbv	
39) 1,2-Dichloropropane	7.031	63	43324	0.517	ppbv	97
40) 1,4-Dioxane	7.282	88	18325m	0.518	ppbv	
41) Tetrahydrofuran	5.542	42	43282m	0.493	ppbv	
42) Bromodichloromethane	7.208	83	93088	0.505	ppbv	91
43) Methyl Methacrylate	7.442	69	37446	0.448	ppbv	93
44) 2,2,4-Trimethylpentane	7.285	57	184006	0.508	ppbv	95
45) t-1,3-Dichloropropene	8.671	75	24823m	0.400	ppbv	

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

QLast Update : Tue Jan 23 11:01:31 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.098	75	33664m	0.438	ppbv	
47) 1,1,2-Trichloroethane	8.860	97	46617	0.524	ppbv	95
48) Dibromochloromethane	9.664	129	75578m	0.498	ppbv	
49) Bromoform	12.368	173	50335	0.430	ppbv	95
50) 4-Methyl-2-Pentanone	8.163	43	107425	0.491	ppbv	94
51) 2-Hexanone	9.536	43	69426m	0.441	ppbv	
52) Tetrachloroethene	10.571	164	38543m	0.536	ppbv	
53) Toluene	9.182	91	112893	0.477	ppbv	98
54) 1,2-Dibromoethane	9.966	107	62886	0.515	ppbv	89
56) 1,1,1,2-Tetrachloroethane	11.465	131	58723m	0.557	ppbv	
57) Chlorobenzene	11.487	112	99440	0.560	ppbv #	85
58) Ethyl Benzene	12.047	91	153727m	0.497	ppbv	
59) m/p-Xylene	12.330	91	267489m	1.016	ppbv	
60) o-Xylene	13.015	91	126127	0.508	ppbv	100
61) Styrene	12.857	104	49644	0.421	ppbv	97
62) Isopropylbenzene	13.989	105	196958m	0.535	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.011	83	111993m	0.627	ppbv	
64) n-propylbenzene	14.879	120	46656	0.506	ppbv	76
65) tert-Butylbenzene	16.053	119	163202	0.522	ppbv	88
66) Benzyl Chloride	16.281	91	9566m	0.447	ppbv	
67) sec-Butylbenzene	16.596	105	251185	0.553	ppbv	99
69) p-Isopropyltoluene	16.957	119	176297	0.499	ppbv	95
70) n-Butylbenzene	17.850	91	195242	0.532	ppbv	98
71) 2-Chlorotoluene	14.760	91	146096	0.516	ppbv	99
72) 4-Ethyltoluene	15.159	105	140894m	0.517	ppbv	
73) 1,3,5-Trimethylbenzene	15.317	105	129091m	0.549	ppbv	
74) 1,2,4-Trimethylbenzene	16.069	105	145127	0.555	ppbv	91
75) 1,3-Dichlorobenzene	16.288	146	85011m	0.569	ppbv	
76) 1,4-Dichlorobenzene	16.432	146	90708m	0.621	ppbv	
77) 1,2-Dichlorobenzene	17.108	146	86292m	0.600	ppbv	
78) Hexachloro-1,3-Butadiene	22.587	225	60046m	0.678	ppbv	
79) Naphthalene	21.355	128	66072m	0.524	ppbv	
80) Naphthalene,2-methyl-	24.451	142	7363m	0.320	ppbv	
81) 1,2,4-Trichlorobenzene	21.101	180	43686m	0.604	ppbv	

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

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