

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL071023\
 Data File : VL040508.D
 Acq On : 10 Jul 2023 13:08
 Operator : SY/MD
 Sample : VSTDICC001
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 07/11/2023
 Supervised By :Mahesh Dadoda 07/11/2023

Quant Time: Jul 10 13:53:09 2023

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL071023AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 11 2023

QLast Update : Tue Jun 06 06:22:12 2023

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.198	49	1084217	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.664	114	2961852	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.481	117	2709260	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 13.793 95 2096547 9.376 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 93.800%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.739	85	224854	0.953	ppbv	95
3) Chlorodifluoromethane	2.681	51	181737	1.023	ppbv	94
4) Chloromethane	2.816	50	73924	1.075	ppbv	89
5) Vinyl Chloride	2.925	62	73103	1.066	ppbv	88
6) Bromomethane	3.124	94	31040	0.874	ppbv	94
7) Chloroethane	3.202	64	27049	1.056	ppbv #	88
8) Dichlorotetrafluoroethane	2.864	85	190092	1.020	ppbv	99
9) Propene	2.700	41	63053	1.151	ppbv	96
10) Heptane	7.587	43	134355	1.084	ppbv	98
11) Trichlorofluoromethane	3.571	101	179692	0.935	ppbv	91
12) 1,1,2-Trichlorotrifluo...	4.070	101	127524	0.950	ppbv	96
13) Ethanol	3.259	45	15025m	1.325	ppbv	
14) Bromoethene	3.372	108	53951	0.961	ppbv #	98
15) Acetone	3.481	43	129125	0.987	ppbv	93
16) 1,3-Butadiene	2.993	39	61868m	0.972	ppbv	
17) tert-Butyl alcohol	3.893	59	145021	1.349	ppbv	99
18) 1,1-Dichloroethene	3.883	96	56442	0.944	ppbv	98
19) Isopropyl Alcohol	3.591	45	81479	1.293	ppbv	98
20) Methylene Chloride	3.944	84	55631	0.997	ppbv	91
21) Allyl Chloride	4.005	41	71904	0.973	ppbv	97
22) trans-1,2-Dichloroethene	4.452	96	52464	0.855	ppbv	96
23) Vinyl Acetate	4.639	43	116642	0.913	ppbv	99
24) 1,1-Dichloroethane	4.568	63	127940	0.999	ppbv	98
25) Ethyl Acetate	5.218	43	247635	1.045	ppbv	97
26) Hexane	5.221	57	120569	1.075	ppbv	98
27) Carbon Disulfide	4.131	76	125540	0.895	ppbv #	83
28) Methyl tert-Butyl Ether	4.600	73	95326	1.104	ppbv	99
29) Chloroform	5.282	83	195759	1.024	ppbv	92
30) Cyclohexane	6.613	84	90485	1.001	ppbv	97
31) cis-1,2-Dichloroethene	5.089	61	109425	1.019	ppbv	92
32) 1,1,1-Trichloroethane	6.009	97	184896	0.980	ppbv	98
34) 2-Butanone	4.803	43	148803	1.042	ppbv	98
35) Carbon Tetrachloride	6.504	117	179422	0.889	ppbv	93
36) Benzene	6.378	78	242524	1.029	ppbv	98
37) 1,2-Dichloroethane	5.816	62	139361	0.908	ppbv	97
38) Trichloroethene	7.308	130	99807m	1.118	ppbv	
39) 1,2-Dichloropropane	7.079	63	91869	1.012	ppbv	87
40) 1,4-Dioxane	7.320	88	27659	1.075	ppbv #	100
41) Tetrahydrofuran	5.581	42	84254	1.079	ppbv	98
42) Bromodichloromethane	7.259	83	194429	0.920	ppbv	99
43) Methyl Methacrylate	7.484	69	84127	0.994	ppbv	95
44) 2,2,4-Trimethylpentane	7.336	57	393117	1.021	ppbv	99
45) t-1,3-Dichloropropene	8.722	75	48755m	0.780	ppbv	

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

QLast Update : Tue Jun 06 06:22:12 2023

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.150	75	66332m	0.871	ppbv	
47) 1,1,2-Trichloroethane	8.909	97	100286	1.005	ppbv	92
48) Dibromochloromethane	9.725	129	146268	0.917	ppbv	100
49) Bromoform	12.426	173	111946m	0.927	ppbv	
50) 4-Methyl-2-Pentanone	8.205	43	210790	1.102	ppbv	100
51) 2-Hexanone	9.578	43	136740	1.030	ppbv #	100
52) Tetrachloroethene	10.632	164	81518	1.102	ppbv	89
53) Toluene	9.234	91	259538	1.046	ppbv	98
54) 1,2-Dibromoethane	10.024	107	125531	0.959	ppbv	99
56) 1,1,1,2-Tetrachloroethane	11.523	131	123960	0.973	ppbv #	1
57) Chlorobenzene	11.542	112	227353	1.110	ppbv	88
58) Ethyl Benzene	12.102	91	344278	1.049	ppbv	95
59) m/p-Xylene	12.388	91	631217m	2.092	ppbv	
60) o-Xylene	13.073	91	299340	1.046	ppbv	100
61) Styrene	12.912	104	123579	1.004	ppbv	97
62) Isopropylbenzene	14.044	105	452503	1.064	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.066	83	217782	1.175	ppbv	99
64) n-propylbenzene	14.931	120	114169	1.057	ppbv	92
65) tert-Butylbenzene	16.105	119	394927	1.082	ppbv	98
66) Benzyl Chloride	16.343	91	23622m	0.840	ppbv	
67) sec-Butylbenzene	16.648	105	588424	1.106	ppbv	99
69) p-Isopropyltoluene	17.008	119	484699	1.146	ppbv	97
70) n-Butylbenzene	17.905	91	542165	1.149	ppbv	99
71) 2-Chlorotoluene	14.815	91	340956	1.079	ppbv	100
72) 4-Ethyltoluene	15.208	105	335013	1.039	ppbv	99
73) 1,3,5-Trimethylbenzene	15.365	105	302642	1.062	ppbv	96
74) 1,2,4-Trimethylbenzene	16.124	105	364900	1.089	ppbv	94
75) 1,3-Dichlorobenzene	16.346	146	214389	1.141	ppbv	99
76) 1,4-Dichlorobenzene	16.487	146	204095	1.117	ppbv	98
77) 1,2-Dichlorobenzene	17.159	146	215756	1.215	ppbv	99
78) Hexachloro-1,3-Butadiene	22.651	225	202640m	1.480	ppbv	
79) Naphthalene	21.403	128	311068	1.612	ppbv	99
80) Naphthalene,2-methyl-	24.387	142	92733	1.601	ppbv #	89
81) 1,2,4-Trichlorobenzene	21.159	180	200234	1.675	ppbv	97

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

