

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111323\
 Data File : VL040837.D
 Acq On : 13 Nov 2023 12:03
 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 :Mahesh Dadoda 11/15/2023
 Supervised By :Semsettin Yesilyurt 11/15/2023

Quant Time: Nov 13 15:26:17 2023

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111323AIR.M

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

QLast Update : Mon Nov 13 15:18:50 2023

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.182	49	1163155	10.000	ppbv	0.01
33) 1,4-Difluorobenzene	6.635	114	3038114	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.439	117	2793969	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 13.748 95 2171964 10.444 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 104.400%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.735	85	252127	1.215	ppbv	97
3) Chlorodifluoromethane	2.681	51	198994	1.161	ppbv	100
4) Chloromethane	2.819	50	69094	1.031	ppbv	90
5) Vinyl Chloride	2.925	62	70388	1.016	ppbv	92
6) Bromomethane	3.121	94	24797	0.890	ppbv	99
7) Chloroethane	3.198	64	21707	0.968	ppbv	96
8) Dichlorotetrafluoroethane	2.861	85	179266	1.151	ppbv	97
9) Propene	2.700	41	63188	1.010	ppbv	94
10) Heptane	7.561	43	162318	1.029	ppbv	99
11) Trichlorofluoromethane	3.562	101	191295	1.193	ppbv	94
12) 1,1,2-Trichlorotrifluo...	4.060	101	135408	1.186	ppbv	100
13) Ethanol	3.256	45	11844	0.858	ppbv #	58
14) Bromoethene	3.365	108	55831	1.156	ppbv	96
15) Acetone	3.478	43	126075	1.054	ppbv	92
16) 1,3-Butadiene	2.986	39	68968	1.108	ppbv	100
17) tert-Butyl alcohol	3.883	59	111857	0.969	ppbv	99
18) 1,1-Dichloroethene	3.877	96	62066	1.218	ppbv	90
19) Isopropyl Alcohol	3.587	45	72668	0.968	ppbv #	95
20) Methylene Chloride	3.928	84	53198	1.061	ppbv	91
21) Allyl Chloride	3.992	41	79749	1.024	ppbv	90
22) trans-1,2-Dichloroethene	4.436	96	63636	1.153	ppbv	93
23) Vinyl Acetate	4.619	43	156807	1.004	ppbv	99
24) 1,1-Dichloroethane	4.555	63	152764	1.264	ppbv	97
25) Ethyl Acetate	5.201	43	274895	1.053	ppbv	99
26) Hexane	5.201	57	119825	1.008	ppbv	93
27) Carbon Disulfide	4.121	76	147050	1.102	ppbv #	91
28) Methyl tert-Butyl Ether	4.587	73	110701	1.159	ppbv	98
29) Chloroform	5.259	83	203626	1.153	ppbv	99
30) Cyclohexane	6.584	84	99102	0.982	ppbv	93
31) cis-1,2-Dichloroethene	5.066	61	122763	1.102	ppbv	98
32) 1,1,1-Trichloroethane	5.989	97	194447	1.046	ppbv	98
34) 2-Butanone	4.783	43	163382	1.127	ppbv	95
35) Carbon Tetrachloride	6.475	117	203828	1.176	ppbv	98
36) Benzene	6.349	78	258412	1.106	ppbv	97
37) 1,2-Dichloroethane	5.793	62	154641	1.255	ppbv	98
38) Trichloroethene	7.272	130	95983	0.931	ppbv	96
39) 1,2-Dichloropropane	7.057	63	103066	1.129	ppbv	92
40) 1,4-Dioxane	7.291	88	40779m	1.192	ppbv	
41) Tetrahydrofuran	5.555	42	93736	0.991	ppbv	94
42) Bromodichloromethane	7.227	83	210280	1.146	ppbv	90
43) Methyl Methacrylate	7.459	69	92492	0.990	ppbv	93
44) 2,2,4-Trimethylpentane	7.307	57	432580	1.095	ppbv	99
45) t-1,3-Dichloropropene	8.693	75	51662m	0.737	ppbv	

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.127	75	70985m	0.814	ppbv	
47) 1,1,2-Trichloroethane	8.873	97	112094m	1.165	ppbv	
48) Dibromochloromethane	9.687	129	170964	1.056	ppbv	99
49) Bromoform	12.378	173	123087	0.954	ppbv	98
50) 4-Methyl-2-Pentanone	8.176	43	232718	0.988	ppbv	96
51) 2-Hexanone	9.545	43	149993	0.843	ppbv #	90
52) Tetrachloroethene	10.593	164	87141	0.929	ppbv	95
53) Toluene	9.201	91	285623	1.031	ppbv	100
54) 1,2-Dibromoethane	9.986	107	137404	1.028	ppbv	100
56) 1,1,1,2-Tetrachloroethane	11.484	131	123240	1.071	ppbv #	1
57) Chlorobenzene	11.497	112	222740	1.107	ppbv	88
58) Ethyl Benzene	12.063	91	391353	1.103	ppbv	92
59) m/p-Xylene	12.352	91	675708m	2.306	ppbv	
60) o-Xylene	13.027	91	324138m	1.163	ppbv	
61) Styrene	12.873	104	139790	0.924	ppbv	98
62) Isopropylbenzene	14.005	105	477751	1.120	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.018	83	220731	1.056	ppbv	96
64) n-propylbenzene	14.889	120	115722	1.021	ppbv	82
65) tert-Butylbenzene	16.063	119	395501	1.032	ppbv	92
66) Benzyl Chloride	16.294	91	11750m	0.364	ppbv	
67) sec-Butylbenzene	16.609	105	585185	1.113	ppbv	98
69) p-Isopropyltoluene	16.973	119	464152	1.062	ppbv	98
70) n-Butylbenzene	17.863	91	481193	1.111	ppbv	97
71) 2-Chlorotoluene	14.773	91	356964	1.110	ppbv	99
72) 4-Ethyltoluene	15.169	105	349169	1.081	ppbv	99
73) 1,3,5-Trimethylbenzene	15.326	105	298454	1.049	ppbv	99
74) 1,2,4-Trimethylbenzene	16.085	105	349237m	1.119	ppbv	
75) 1,3-Dichlorobenzene	16.307	146	187741	0.989	ppbv	98
76) 1,4-Dichlorobenzene	16.449	146	178889	0.950	ppbv	98
77) 1,2-Dichlorobenzene	17.121	146	188602	1.015	ppbv	97
78) Hexachloro-1,3-Butadiene	22.606	225	118226m	0.901	ppbv	
79) Naphthalene	21.358	128	180065m	0.750	ppbv	
80) Naphthalene,2-methyl-	24.355	142	21651m	0.360	ppbv	
81) 1,2,4-Trichlorobenzene	21.120	180	98062m	0.752	ppbv	

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

