

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100421\
 Data File : VL037760.D
 Acq On : 4 Oct 2021 12:55
 Operator : SY/AP
 Sample : VSTDICC001
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 10/05/2021
 Supervised By :Semsettin Yesilyurt 10/05/2021

Quant Time: Oct 04 14:24:19 2021

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL100421AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Oct 04 14:24:19 2021

QLast Update : Mon Oct 04 12:52:19 2021

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.668	49	1448310	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.176	114	4247246	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.085	117	3803191	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 14.413 95 2668210 9.71 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 97.10%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.050	85	302735m	1.16	ppbv	
3) Chlorodifluoromethane	2.989	51	299180	1.10	ppbv	99
4) Chloromethane	3.140	50	107386	1.06	ppbv	96
5) Vinyl Chloride	3.259	62	93453	0.99	ppbv	92
6) Bromomethane	3.472	94	55368m	1.00	ppbv	
7) Chloroethane	3.555	64	35974m	1.02	ppbv	
8) Dichlorotetrafluoroethane	3.192	85	245872	1.09	ppbv	99
9) Propene	3.015	41	109394m	1.14	ppbv	
10) Heptane	8.121	43	235065	1.05	ppbv	99
11) Trichlorofluoromethane	3.951	101	209250	0.99	ppbv	98
12) 1,1,2-Trichlorotrifluoro...	4.491	101	160855	1.04	ppbv	99
13) Ethanol	3.626	45	9502m	1.01	ppbv	
14) Bromoethene	3.745	108	71707m	1.01	ppbv	
15) Acetone	3.864	43	142272m	0.95	ppbv	
16) 1,3-Butadiene	3.327	39	89381	0.95	ppbv	86
17) tert-Butyl alcohol	4.304	59	127071	1.00	ppbv	96
18) 1,1-Dichloroethene	4.288	96	74753	1.03	ppbv	90
19) Isopropyl Alcohol	3.983	45	81981m	1.00	ppbv	
20) Methylene Chloride	4.349	84	73684m	1.03	ppbv	
21) Allyl Chloride	4.414	41	122516m	1.09	ppbv	
22) trans-1,2-Dichloroethene	4.883	96	74009m	1.02	ppbv	
23) Vinyl Acetate	5.076	43	190650	0.92	ppbv	98
24) 1,1-Dichloroethane	5.012	63	147017	0.99	ppbv	99
25) Ethyl Acetate	5.690	43	364698	1.00	ppbv	97
26) Hexane	5.693	57	187942	1.09	ppbv	96
27) Carbon Disulfide	4.555	76	147981	0.93	ppbv #	90
28) Methyl tert-Butyl Ether	5.047	73	142824	0.94	ppbv	95
29) Chloroform	5.751	83	270095	1.07	ppbv	97
30) Cyclohexane	7.131	84	158740m	1.07	ppbv	
31) cis-1,2-Dichloroethene	5.549	61	166934m	1.06	ppbv	
32) 1,1,1-Trichloroethane	6.510	97	243753m	1.04	ppbv	
34) 2-Butanone	5.256	43	177013m	1.03	ppbv	
35) Carbon Tetrachloride	7.018	117	244239	1.02	ppbv	95
36) Benzene	6.889	78	375941	1.06	ppbv #	92
37) 1,2-Dichloroethane	6.304	62	171177	0.98	ppbv #	95
38) Trichloroethene	7.838	130	148336m	1.00	ppbv	
39) 1,2-Dichloropropane	7.616	63	141394m	1.04	ppbv	
40) 1,4-Dioxane	7.864	88	36388m	1.10	ppbv	
41) Tetrahydrofuran	6.070	42	84743m	1.04	ppbv	
42) Bromodichloromethane	7.793	83	248709	1.00	ppbv	99
43) Methyl Methacrylate	8.018	69	106808	0.91	ppbv	90
44) 2,2,4-Trimethylpentane	7.873	57	637625	1.07	ppbv	98
45) t-1,3-Dichloropropene	9.285	75	70567m	0.76	ppbv	

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.700	75	102511	0.82	ppbv	99
47) 1,1,2-Trichloroethane	9.481	97	153987m	1.03	ppbv	
48) Dibromochloromethane	10.304	129	202386	0.97	ppbv	97
49) Bromoform	13.040	173	151488m	0.90	ppbv	
50) 4-Methyl-2-Pentanone	8.761	43	220495m	1.01	ppbv	
51) 2-Hexanone	10.153	43	92562m	0.96	ppbv	
52) Tetrachloroethene	11.220	164	141989m	1.04	ppbv	
53) Toluene	9.806	91	400359	1.02	ppbv	99
54) 1,2-Dibromoethane	10.610	107	203571m	0.99	ppbv	
56) 1,1,1,2-Tetrachloroethane	12.121	131	164138m	1.04	ppbv	
57) Chlorobenzene	12.146	112	334791	1.06	ppbv	92
58) Ethyl Benzene	12.709	91	535718	1.06	ppbv	98
59) m/p-Xylene	12.995	91	932824m	2.12	ppbv	
60) o-Xylene	13.693	91	452360	1.08	ppbv	96
61) Styrene	13.529	104	190828	0.92	ppbv	98
62) Isopropylbenzene	14.667	105	613337	1.05	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.677	83	318311	0.97	ppbv	99
64) n-propylbenzene	15.561	120	151348	1.00	ppbv	98
65) tert-Butylbenzene	16.741	119	545355	1.03	ppbv	97
66) Benzyl Chloride	16.989	91	20582m	0.71	ppbv	
67) sec-Butylbenzene	17.291	105	757154	1.06	ppbv	98
69) p-Isopropyltoluene	17.651	119	582099	1.00	ppbv	99
70) n-Butylbenzene	18.551	91	549416	0.99	ppbv	98
71) 2-Chlorotoluene	15.452	91	440583	1.05	ppbv	96
72) 4-Ethyltoluene	15.838	105	474803	0.99	ppbv	98
73) 1,3,5-Trimethylbenzene	15.995	105	429230	0.96	ppbv	96
74) 1,2,4-Trimethylbenzene	16.754	105	472418	1.00	ppbv #	85
75) 1,3-Dichlorobenzene	16.985	146	302953m	1.03	ppbv	
76) 1,4-Dichlorobenzene	17.140	146	283711m	0.98	ppbv	
77) 1,2-Dichlorobenzene	17.812	146	275915	0.99	ppbv	97
78) Hexachloro-1,3-Butadiene	23.371	225	239063	1.02	ppbv	95
79) Naphthalene	22.201	128	249837m	0.86	ppbv	
80) Naphthalene,2-methyl-	24.976	142	43270	0.65	ppbv	98
81) 1,2,4-Trichlorobenzene	21.924	180	172581m	0.93	ppbv	

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

