

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL111621\
 Data File : VL038025.D
 Acq On : 16 Nov 2021 3:06
 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 : Semsettin Yesilyurt 11/17/2021
 Supervised By : Mahesh Dadoda 11/17/2021

Quant Time: Nov 16 09:50:12 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111621A
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:
 QLast Update : Tue Nov 16 03:19:45 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	828149	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3150843	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	3006219	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	2116561	9.80	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.00%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	3.06	85	193325	1.553	ppbv	92
3) Chlorodifluoromethane	2.99	51	232799	1.416	ppbv	100
4) Chloromethane	3.15	50	82862	1.338	ppbv	100
5) Vinyl Chloride	3.26	62	76061	1.291	ppbv	93
6) Bromomethane	3.48	94	39683	1.246	ppbv	94
7) Chloroethane	3.56	64	26907m	1.258	ppbv	
8) Dichlorotetrafluoroethane	3.19	85	194372	1.376	ppbv	99
9) Propene	3.02	41	88066	1.470	ppbv	99
10) Heptane	8.12	43	213906	1.549	ppbv	100
11) Trichlorofluoromethane	3.95	101	175965	1.424	ppbv	93
12) 1,1,2-Trichlorotrifluoroet	4.49	101	138003	1.430	ppbv	96
13) Ethanol	3.63	45	8391m	1.441	ppbv	
14) Bromoethene	3.74	108	58959m	1.422	ppbv	
15) Acetone	3.87	43	104900m	1.445	ppbv	
16) 1,3-Butadiene	3.33	39	80651m	1.415	ppbv	
17) tert-Butyl alcohol	4.31	59	155772m	1.884	ppbv	
18) 1,1-Dichloroethene	4.29	96	61796m	1.384	ppbv	
19) Isopropyl Alcohol	4.00	45	87545m	1.834	ppbv	
20) Methylene Chloride	4.35	84	63256m	1.588	ppbv	
21) Allyl Chloride	4.41	41	108686m	1.583	ppbv	
22) trans-1,2-Dichloroethene	4.88	96	63921m	1.423	ppbv	
23) Vinyl Acetate	5.08	43	152292	1.342	ppbv #	97
24) 1,1-Dichloroethane	5.01	63	132522	1.439	ppbv	99
25) Ethyl Acetate	5.68	43	249626	1.214	ppbv #	94
26) Hexane	5.69	57	127687	1.304	ppbv	97
27) Carbon Disulfide	4.56	76	155782	1.503	ppbv #	91
28) Methyl tert-Butyl Ether	5.05	73	156110	1.687	ppbv	99
29) Chloroform	5.75	83	198832	1.324	ppbv	95
30) Cyclohexane	7.12	84	136352	1.526	ppbv #	73
31) cis-1,2-Dichloroethene	5.55	61	94765	1.077	ppbv	91
32) 1,1,1-Trichloroethane	6.51	97	226589	1.511	ppbv	100
34) 2-Butanone	5.26	43	118282m	1.045	ppbv	
35) Carbon Tetrachloride	7.01	117	225870m	1.170	ppbv	
36) Benzene	6.89	78	323636	1.244	ppbv	98
37) 1,2-Dichloroethane	6.30	62	149173	1.200	ppbv	98
38) Trichloroethene	7.83	130	123122	1.156	ppbv	92
39) 1,2-Dichloropropane	7.61	63	120676	1.217	ppbv	98
40) 1,4-Dioxane	7.85	88	35989m	1.412	ppbv	
41) Tetrahydrofuran	6.07	42	74516	1.254	ppbv	93
42) Bromodichloromethane	7.78	83	233638	1.236	ppbv	90
43) Methyl Methacrylate	8.01	69	116209	1.345	ppbv	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.86	57	581638	1.320	ppbv	98
45) t-1,3-Dichloropropene	9.28	75	90179	1.376	ppbv	95
46) cis-1,3-Dichloropropene	8.70	75	116063	1.316	ppbv	98
47) 1,1,2-Trichloroethane	9.47	97	124972	1.141	ppbv	93
48) Dibromochloromethane	10.30	129	206303	1.314	ppbv	99
49) Bromoform	13.03	173	158088	1.282	ppbv	99
50) 4-Methyl-2-Pentanone	8.76	43	201175m	1.289	ppbv	
51) 2-Hexanone	10.16	43	89984m	1.335	ppbv	
52) Tetrachloroethene	11.22	164	116821	1.197	ppbv	96
53) Toluene	9.80	91	386875	1.385	ppbv	100
54) 1,2-Dibromoethane	10.60	107	180103	1.267	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.11	131	145446	1.202	ppbv #	1
57) Chlorobenzene	12.14	112	270353	1.138	ppbv	97
58) Ethyl Benzene	12.70	91	500844	1.356	ppbv	99
59) m/p-Xylene	12.99	91	863640m	2.664	ppbv	
60) o-Xylene	13.68	91	405437	1.329	ppbv	99
61) Styrene	13.52	104	212863	1.481	ppbv	96
62) Isopropylbenzene	14.66	105	573790	1.316	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.67	83	280780	1.070	ppbv	99
64) n-propylbenzene	15.55	120	143202	1.291	ppbv	88
65) tert-Butylbenzene	16.73	119	522213	1.364	ppbv	100
66) Benzyl Chloride	16.98	91	32370m	1.555	ppbv	
67) sec-Butylbenzene	17.29	105	711304	1.349	ppbv	98
69) p-Isopropyltoluene	17.64	119	576853	1.366	ppbv	98
70) n-Butylbenzene	18.54	91	511567	1.320	ppbv	99
71) 2-Chlorotoluene	15.45	91	420823m	1.383	ppbv	
72) 4-Ethyltoluene	15.83	105	468828	1.327	ppbv	99
73) 1,3,5-Trimethylbenzene	15.99	105	423692	1.291	ppbv	94
74) 1,2,4-Trimethylbenzene	16.75	105	450862	1.319	ppbv	93
75) 1,3-Dichlorobenzene	16.99	146	241679m	1.140	ppbv	
76) 1,4-Dichlorobenzene	17.13	146	244257m	1.187	ppbv	
77) 1,2-Dichlorobenzene	17.81	146	230513	1.159	ppbv	98
78) Hexachloro-1,3-Butadiene	23.36	225	158399	0.964	ppbv	99
79) Naphthalene	22.19	128	220636	1.171	ppbv #	94
80) Naphthalene, 2-methyl-	24.98	142	26349	0.813	ppbv	99
81) 1,2,4-Trichlorobenzene	21.91	180	132881m	1.085	ppbv	

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

