

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL111621\
 Data File : VL038024.D
 Acq On : 16 Nov 2021 2:28
 Operator : SY/AP
 Sample : VSTDICC002
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 VSTDICC002

Manual Integrations
 APPROVED

Quant Time: Nov 16 09:47:29 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

Reviewed By :Semsettin Yesilyurt 11/17/2021
 Supervised By :Mahesh Dadoda 11/17/2021

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	901320	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3252355	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	3182496	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	2203193	9.64	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.40%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.05	85	349055	2.577 ppbv	97
3) Chlorodifluoromethane	2.99	51	467887	2.615 ppbv	99
4) Chloromethane	3.15	50	160769	2.386 ppbv	95
5) Vinyl Chloride	3.26	62	150772	2.352 ppbv	96
6) Bromomethane	3.48	94	84082	2.426 ppbv	95
7) Chloroethane	3.56	64	52916	2.273 ppbv	99
8) Dichlorotetrafluoroethane	3.19	85	384317	2.500 ppbv	99
9) Propene	3.01	41	176119	2.701 ppbv	97
10) Heptane	8.12	43	444172	2.955 ppbv	99
11) Trichlorofluoromethane	3.95	101	363769	2.705 ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.49	101	277827	2.646 ppbv	98
13) Ethanol	3.63	45	15082m	2.381 ppbv	
14) Bromoethene	3.74	108	115129m	2.551 ppbv	
15) Acetone	3.86	43	215760m	2.731 ppbv	
16) 1,3-Butadiene	3.33	39	161672	2.607 ppbv	99
17) tert-Butyl alcohol	4.31	59	257190	2.858 ppbv	98
18) 1,1-Dichloroethene	4.29	96	130038m	2.677 ppbv	
19) Isopropyl Alcohol	3.99	45	135068m	2.600 ppbv	
20) Methylene Chloride	4.35	84	123197m	2.842 ppbv	
21) Allyl Chloride	4.41	41	213348	2.855 ppbv	97
22) trans-1,2-Dichloroethene	4.88	96	124118	2.539 ppbv	97
23) Vinyl Acetate	5.08	43	338009m	2.737 ppbv	
24) 1,1-Dichloroethane	5.01	63	272244	2.716 ppbv	99
25) Ethyl Acetate	5.68	43	558956	2.497 ppbv #	97
26) Hexane	5.69	57	273551	2.566 ppbv	99
27) Carbon Disulfide	4.55	76	332626	2.949 ppbv	95
28) Methyl tert-Butyl Ether	5.04	73	318242	3.161 ppbv	99
29) Chloroform	5.75	83	401717	2.458 ppbv	100
30) Cyclohexane	7.13	84	287704	2.959 ppbv	90
31) cis-1,2-Dichloroethene	5.55	61	202816	2.118 ppbv	97
32) 1,1,1-Trichloroethane	6.51	97	464485	2.845 ppbv	99
34) 2-Butanone	5.25	43	221295	1.895 ppbv	99
35) Carbon Tetrachloride	7.01	117	467498	2.346 ppbv	98
36) Benzene	6.89	78	671041	2.499 ppbv	98
37) 1,2-Dichloroethane	6.30	62	311695	2.430 ppbv	99
38) Trichloroethene	7.83	130	246651	2.243 ppbv	95
39) 1,2-Dichloropropane	7.61	63	255667	2.499 ppbv	97
40) 1,4-Dioxane	7.85	88	60060	2.282 ppbv #	100
41) Tetrahydrofuran	6.07	42	157954	2.575 ppbv	98
42) Bromodichloromethane	7.79	83	502939	2.578 ppbv	98
43) Methyl Methacrylate	8.01	69	240152	2.694 ppbv	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.87	57	1172574	2.579	ppbv	98
45) t-1,3-Dichloropropene	9.27	75	187435	2.770	ppbv	100
46) cis-1,3-Dichloropropene	8.70	75	263761	2.896	ppbv	98
47) 1,1,2-Trichloroethane	9.46	97	259445	2.294	ppbv	97
48) Dibromochloromethane	10.30	129	442646	2.732	ppbv	99
49) Bromoform	13.03	173	347868	2.733	ppbv	98
50) 4-Methyl-2-Pentanone	8.75	43	403257	2.503	ppbv	98
51) 2-Hexanone	10.15	43	193204m	2.777	ppbv	
52) Tetrachloroethene	11.22	164	237646	2.360	ppbv	97
53) Toluene	9.80	91	779467	2.704	ppbv	99
54) 1,2-Dibromoethane	10.61	107	374657	2.553	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.12	131	302114	2.359	ppbv #	1
57) Chlorobenzene	12.14	112	567767	2.257	ppbv	96
58) Ethyl Benzene	12.70	91	1046632	2.677	ppbv	97
59) m/p-Xylene	12.99	91	1755624m	5.116	ppbv	
60) o-Xylene	13.68	91	813901	2.520	ppbv	100
61) Styrene	13.52	104	446330	2.933	ppbv	98
62) Isopropylbenzene	14.66	105	1164388	2.522	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.67	83	572182	2.059	ppbv	100
64) n-propylbenzene	15.55	120	305513	2.602	ppbv	97
65) tert-Butylbenzene	16.73	119	1050164	2.592	ppbv	100
66) Benzyl Chloride	16.98	91	75149m	3.410	ppbv	
67) sec-Butylbenzene	17.28	105	1467623	2.629	ppbv	99
69) p-Isopropyltoluene	17.64	119	1173676	2.626	ppbv	99
70) n-Butylbenzene	18.54	91	1101726	2.685	ppbv	99
71) 2-Chlorotoluene	15.44	91	838649	2.604	ppbv	98
72) 4-Ethyltoluene	15.83	105	977234	2.613	ppbv	100
73) 1,3,5-Trimethylbenzene	15.99	105	881727	2.539	ppbv	100
74) 1,2,4-Trimethylbenzene	16.75	105	918375	2.537	ppbv	94
75) 1,3-Dichlorobenzene	16.99	146	489815	2.182	ppbv	96
76) 1,4-Dichlorobenzene	17.13	146	516046m	2.370	ppbv	
77) 1,2-Dichlorobenzene	17.81	146	473034	2.246	ppbv	98
78) Hexachloro-1,3-Butadiene	23.36	225	323429	1.859	ppbv	99
79) Naphthalene	22.18	128	530783m	2.662	ppbv	
80) Naphthalene, 2-methyl-	24.97	142	113748	3.314	ppbv	99
81) 1,2,4-Trichlorobenzene	21.91	180	286658	2.211	ppbv	98

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

