

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL111621\
 Data File : VL038026.D
 Acq On : 16 Nov 2021 3:43
 Operator : SY/AP
 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 VSTDICC0.5

Manual Integrations
 APPROVED

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

Quant Time: Nov 16 09:52:24 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	5.66	49	765857	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3096663	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	2865200	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.40	95	2117206	10.29	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.90%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.05	85	94057	0.817 ppbv	98
3) Chlorodifluoromethane	2.99	51	115157	0.757 ppbv	99
4) Chloromethane	3.14	50	39608	0.692 ppbv	92
5) Vinyl Chloride	3.26	62	37713	0.692 ppbv	99
6) Bromomethane	3.48	94	20664m	0.702 ppbv	
7) Chloroethane	3.56	64	13781m	0.697 ppbv	
8) Dichlorotetrafluoroethane	3.19	85	89543	0.686 ppbv	96
9) Propene	3.02	41	42811	0.773 ppbv	93
10) Heptane	8.12	43	106640	0.835 ppbv	98
11) Trichlorofluoromethane	3.95	101	87587	0.767 ppbv	94
12) 1,1,2-Trichlorotrifluoroet	4.49	101	67751	0.759 ppbv	96
13) Ethanol	3.63	45	3775m	0.701 ppbv	
14) Bromoethene	3.75	108	28451m	0.742 ppbv	
15) Acetone	3.88	43	54883m	0.818 ppbv	
16) 1,3-Butadiene	3.33	39	32538m	0.617 ppbv	
17) tert-Butyl alcohol	4.33	59	69152m	0.904 ppbv	
18) 1,1-Dichloroethene	4.29	96	31743m	0.769 ppbv	
19) Isopropyl Alcohol	4.00	45	41401m	0.938 ppbv	
20) Methylene Chloride	4.35	84	34854m	0.946 ppbv	
21) Allyl Chloride	4.42	41	45842	0.722 ppbv #	85
22) trans-1,2-Dichloroethene	4.89	96	29268	0.705 ppbv	98
23) Vinyl Acetate	5.08	43	92845m	0.885 ppbv	
24) 1,1-Dichloroethane	5.01	63	65196	0.766 ppbv	98
25) Ethyl Acetate	5.69	43	107690	0.566 ppbv #	95
26) Hexane	5.69	57	58653m	0.647 ppbv	
27) Carbon Disulfide	4.55	76	71776	0.749 ppbv #	88
28) Methyl tert-Butyl Ether	5.06	73	75227	0.879 ppbv	95
29) Chloroform	5.75	83	85434m	0.615 ppbv	
30) Cyclohexane	7.12	84	70462m	0.853 ppbv	
31) cis-1,2-Dichloroethene	5.55	61	50287m	0.618 ppbv	
32) 1,1,1-Trichloroethane	6.51	97	110294	0.795 ppbv	100
34) 2-Butanone	5.26	43	56924m	0.512 ppbv	
35) Carbon Tetrachloride	7.01	117	108337	0.571 ppbv	98
36) Benzene	6.89	78	162287m	0.635 ppbv	
37) 1,2-Dichloroethane	6.30	62	68278	0.559 ppbv #	95
38) Trichloroethene	7.83	130	56786	0.542 ppbv	93
39) 1,2-Dichloropropane	7.61	63	62817	0.645 ppbv	86
40) 1,4-Dioxane	7.86	88	18302m	0.730 ppbv	
41) Tetrahydrofuran	6.08	42	43437m	0.744 ppbv	
42) Bromodichloromethane	7.78	83	110931	0.597 ppbv #	87
43) Methyl Methacrylate	8.02	69	53572	0.631 ppbv	95

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.87	57	287946	0.665	ppbv	97
45) t-1,3-Dichloropropene	9.27	75	40788m	0.633	ppbv	
46) cis-1,3-Dichloropropene	8.70	75	56332	0.650	ppbv	98
47) 1,1,2-Trichloroethane	9.47	97	63146m	0.586	ppbv	
48) Dibromochloromethane	10.29	129	96254	0.624	ppbv	100
49) Bromoform	13.03	173	73588	0.607	ppbv	98
50) 4-Methyl-2-Pentanone	8.76	43	98944m	0.645	ppbv	
51) 2-Hexanone	10.16	43	45143m	0.682	ppbv	
52) Tetrachloroethene	11.22	164	56010	0.584	ppbv	99
53) Toluene	9.80	91	192628m	0.702	ppbv	
54) 1,2-Dibromoethane	10.60	107	80560	0.577	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.11	131	70376m	0.610	ppbv	
57) Chlorobenzene	12.14	112	133832	0.591	ppbv #	93
58) Ethyl Benzene	12.71	91	251210m	0.714	ppbv	
59) m/p-Xylene	12.98	91	419764m	1.359	ppbv	
60) o-Xylene	13.68	91	193721	0.666	ppbv	99
61) Styrene	13.52	104	97719	0.713	ppbv	91
62) Isopropylbenzene	14.66	105	288250	0.694	ppbv	94
63) 1,1,2,2-Tetrachloroethane	13.67	83	131879	0.527	ppbv	100
64) n-propylbenzene	15.55	120	68579	0.649	ppbv	87
65) tert-Butylbenzene	16.74	119	257287m	0.705	ppbv	
66) Benzyl Chloride	16.98	91	15665m	0.789	ppbv	
67) sec-Butylbenzene	17.28	105	351602m	0.700	ppbv	
69) p-Isopropyltoluene	17.64	119	277311	0.689	ppbv	99
70) n-Butylbenzene	18.54	91	242971	0.658	ppbv	97
71) 2-Chlorotoluene	15.44	91	197439	0.681	ppbv	100
72) 4-Ethyltoluene	15.83	105	220098	0.654	ppbv #	97
73) 1,3,5-Trimethylbenzene	15.98	105	218530m	0.699	ppbv	
74) 1,2,4-Trimethylbenzene	16.75	105	212352	0.652	ppbv	96
75) 1,3-Dichlorobenzene	16.99	146	111525	0.552	ppbv	97
76) 1,4-Dichlorobenzene	17.12	146	117226m	0.598	ppbv	
77) 1,2-Dichlorobenzene	17.81	146	111264m	0.587	ppbv	
78) Hexachloro-1,3-Butadiene	23.36	225	78616m	0.502	ppbv	
79) Naphthalene	22.19	128	98379m	0.548	ppbv	
80) Naphthalene, 2-methyl-	24.98	142	15681	0.507	ppbv #	46
81) 1,2,4-Trichlorobenzene	21.91	180	61201m	0.524	ppbv	

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

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