

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL011321\
 Data File : VL036213.D
 Acq On : 13 Jan 2021 4:30
 Operator : SY/AP
 Sample : VSTDIC0.5
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Manual Integrations
 APPROVED

MMDadoda
 1/18/2021 3:48:50 PM

Quant Time: Jan 14 16:06:45 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL011321AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jan 13 2021
 QLast Update : Wed Jan 13 05:46:16 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1588903m	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3369653	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	3009967	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	2537110	10.51	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.10%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	137008m	0.734	ppbv	
3) Chlorodifluoromethane	2.99	51	106043	0.583	ppbv	99
4) Chloromethane	3.14	50	53287	0.596	ppbv #	69
5) Vinyl Chloride	3.26	62	47126m	0.478	ppbv	
6) Bromomethane	3.47	94	27429m	0.544	ppbv	
7) Chloroethane	3.56	64	16878m	0.508	ppbv	
8) Dichlorotetrafluoroethane	3.18	85	110920	0.547	ppbv	99
9) Propene	3.00	41	54125m	0.600	ppbv	
10) Heptane	8.12	43	119518	0.520	ppbv	95
11) Trichlorofluoromethane	3.95	101	118351m	0.553	ppbv	
12) 1,1,2-Trichlorotrifluoroet	4.48	101	68071m	0.477	ppbv	
13) Ethanol	3.62	45	9304m	0.745	ppbv	
14) Bromoethene	3.74	108	31186m	0.527	ppbv	
15) Acetone	3.86	43	118716m	0.631	ppbv	
16) 1,3-Butadiene	3.33	39	52111m	0.549	ppbv	
17) tert-Butyl alcohol	4.30	59	86876m	0.491	ppbv	
18) 1,1-Dichloroethene	4.29	96	32728m	0.516	ppbv	
19) Isopropyl Alcohol	3.99	45	70455m	0.613	ppbv	
20) Methylene Chloride	4.34	84	38542m	0.512	ppbv	
21) Allyl Chloride	4.41	41	50517	0.414	ppbv	96
22) trans-1,2-Dichloroethene	4.88	96	29409m	0.466	ppbv	
23) Vinyl Acetate	5.07	43	106922	0.428	ppbv #	96
24) 1,1-Dichloroethane	5.01	63	85693	0.487	ppbv #	94
25) Ethyl Acetate	5.67	43	200590m	0.533	ppbv	
26) Hexane	5.68	57	88381m	0.522	ppbv	
27) Carbon Disulfide	4.55	76	59014m	0.363	ppbv	
28) Methyl tert-Butyl Ether	5.04	73	119874m	0.510	ppbv	
29) Chloroform	5.75	83	123054	0.549	ppbv	96
30) Cyclohexane	7.13	84	63684m	0.504	ppbv	
31) cis-1,2-Dichloroethene	5.55	61	82297m	0.531	ppbv	
32) 1,1,1-Trichloroethane	6.50	97	111678	0.483	ppbv	96
34) 2-Butanone	5.25	43	131573m	0.582	ppbv	
35) Carbon Tetrachloride	7.01	117	105756m	0.538	ppbv	
36) Benzene	6.89	78	162818	0.568	ppbv	95
37) 1,2-Dichloroethane	6.30	62	99241	0.594	ppbv	97
38) Trichloroethene	7.83	130	56764m	0.536	ppbv	
39) 1,2-Dichloropropane	7.61	63	68317	0.601	ppbv	86
40) 1,4-Dioxane	7.88	88	28408m	0.794	ppbv	
41) Tetrahydrofuran	6.06	42	73542m	0.554	ppbv	
42) Bromodichloromethane	7.78	83	111218	0.504	ppbv #	92
43) Methyl Methacrylate	8.01	69	64253m	0.522	ppbv	

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44) 2,2,4-Trimethylpentane	7.86	57	316173	0.611	ppbv	99
45) t-1,3-Dichloropropene	9.28	75	48209m	0.383	ppbv	
46) cis-1,3-Dichloropropene	8.70	75	73409	0.462	ppbv	95
47) 1,1,2-Trichloroethane	9.47	97	65059m	0.594	ppbv	
48) Dibromochloromethane	10.29	129	80830m	0.493	ppbv	
49) Bromoform	13.03	173	69567m	0.537	ppbv	
50) 4-Methyl-2-Pentanone	8.75	43	194369m	0.578	ppbv	
51) 2-Hexanone	10.15	43	142761m	0.535	ppbv	
52) Tetrachloroethene	11.21	164	54603m	0.530	ppbv	
53) Toluene	9.80	91	184188m	0.572	ppbv	
54) 1,2-Dibromoethane	10.60	107	90967m	0.554	ppbv	
56) 1,1,1,2-Tetrachloroethane	12.12	131	74990	0.601	ppbv #	1
57) Chlorobenzene	12.14	112	136288m	0.642	ppbv	
58) Ethyl Benzene	12.70	91	246508m	0.594	ppbv	
59) m/p-Xylene	12.97	91	427973m	1.226	ppbv	
60) o-Xylene	13.69	91	216923	0.658	ppbv	97
61) Styrene	13.53	104	115573	0.540	ppbv	95
62) Isopropylbenzene	14.66	105	310914	0.634	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.67	83	150401m	0.672	ppbv	
64) n-propylbenzene	15.56	120	74262m	0.626	ppbv	
65) tert-Butylbenzene	16.74	119	253072	0.628	ppbv	88
66) Benzyl Chloride	16.99	91	49406m	0.478	ppbv	
67) sec-Butylbenzene	17.29	105	402448	0.706	ppbv	97
69) p-Isopropyltoluene	17.65	119	297076m	0.655	ppbv	
70) n-Butylbenzene	18.56	91	323034m	0.708	ppbv	
71) 2-Chlorotoluene	15.44	91	243280m	0.650	ppbv	
72) 4-Ethyltoluene	15.83	105	222981	0.617	ppbv	98
73) 1,3,5-Trimethylbenzene	16.00	105	223352m	0.646	ppbv	
74) 1,2,4-Trimethylbenzene	16.76	105	231344	0.667	ppbv #	90
75) 1,3-Dichlorobenzene	16.99	146	125810m	0.719	ppbv	
76) 1,4-Dichlorobenzene	17.14	146	124056m	0.696	ppbv	
77) 1,2-Dichlorobenzene	17.82	146	123980m	0.731	ppbv	
78) Hexachloro-1,3-Butadiene	23.37	225	102467m	0.765	ppbv	
79) Naphthalene	22.22	128	92822m	0.500	ppbv	
80) Naphthalene, 2-methyl-	25.05	142	15630m	0.412	ppbv	
81) 1,2,4-Trichlorobenzene	21.93	180	67422m	0.572	ppbv	

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

