

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL022520\
 Data File : VL034670.D
 Acq On : 25 Feb 2020 13:13
 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
 2/26/2020 12:38:47 PM

Quant Time: Feb 25 14:16:45 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL022520AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Feb 25 2020
 QLast Update : Tue Feb 25 12:01:27 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1126075	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	2345893	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.12	117	2327385	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.46	95	1945474	9.89	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.90%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.02	85	128558	0.518 ppbv	96
3) Chlorodifluoromethane	2.95	51	80440	0.591 ppbv	99
4) Chloromethane	3.11	50	46291	0.556 ppbv	90
5) Vinyl Chloride	3.23	62	39956	0.502 ppbv	96
6) Bromomethane	3.44	94	22348m	0.540 ppbv	
7) Chloroethane	3.53	64	16162	0.547 ppbv #	85
8) Dichlorotetrafluoroethane	3.15	85	104454	0.539 ppbv	100
9) Propene	2.98	41	27303	0.515 ppbv	90
10) Heptane	8.13	43	70133	0.526 ppbv	99
11) Trichlorofluoromethane	3.93	101	104566	0.464 ppbv	96
12) 1,1,2-Trichlorotrifluoroet	4.47	101	74222	0.505 ppbv	93
13) Ethanol	3.59	45	10084m	0.711 ppbv	
14) Bromoethene	3.71	108	25603	0.444 ppbv	92
15) Acetone	3.84	43	93491	0.565 ppbv	97
16) 1,3-Butadiene	3.29	39	34806	0.530 ppbv	98
17) tert-Butyl alcohol	4.29	59	67310	0.553 ppbv	98
18) 1,1-Dichloroethene	4.27	96	31767	0.512 ppbv #	74
19) Isopropyl Alcohol	3.96	45	59665	0.618 ppbv #	94
20) Methylene Chloride	4.32	84	35263	0.560 ppbv #	88
21) Allyl Chloride	4.39	41	49402	0.481 ppbv	99
22) trans-1,2-Dichloroethene	4.87	96	31407m	0.483 ppbv	
23) Vinyl Acetate	5.07	43	93432	0.495 ppbv #	92
24) 1,1-Dichloroethane	5.00	63	91043	0.578 ppbv #	95
25) Ethyl Acetate	5.68	43	141644	0.529 ppbv	99
26) Hexane	5.68	57	60328	0.538 ppbv	91
27) Carbon Disulfide	4.54	76	66718	0.441 ppbv #	90
28) Methyl tert-Butyl Ether	5.03	73	85703	0.448 ppbv	99
29) Chloroform	5.75	83	103399	0.521 ppbv	94
30) Cyclohexane	7.13	84	43992m	0.529 ppbv	
31) cis-1,2-Dichloroethene	5.54	61	54002	0.463 ppbv #	88
32) 1,1,1-Trichloroethane	6.52	97	89747	0.421 ppbv	99
34) 2-Butanone	5.24	43	79263	0.465 ppbv	97
35) Carbon Tetrachloride	7.02	117	98153m	0.438 ppbv	
36) Benzene	6.90	78	109920	0.527 ppbv #	94
37) 1,2-Dichloroethane	6.30	62	76102	0.437 ppbv	97
38) Trichloroethene	7.85	130	41214	0.469 ppbv #	86
39) 1,2-Dichloropropane	7.63	63	46997m	0.543 ppbv	
40) 1,4-Dioxane	7.88	88	18013m	0.542 ppbv	
41) Tetrahydrofuran	6.07	42	39288m	0.442 ppbv	
42) Bromodichloromethane	7.81	83	96616	0.451 ppbv	87
43) Methyl Methacrylate	8.03	69	37172m	0.443 ppbv	

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44) 2,2,4-Trimethylpentane	7.88	57	201716	0.533	ppbv	96
45) t-1,3-Dichloropropene	9.29	75	41885m	0.381	ppbv	
46) cis-1,3-Dichloropropene	8.73	75	49107m	0.393	ppbv	
47) 1,1,2-Trichloroethane	9.50	97	51926	0.554	ppbv	89
48) Dibromochloromethane	10.33	129	71422m	0.416	ppbv	
49) Bromoform	13.08	173	62283m	0.413	ppbv	
50) 4-Methyl-2-Pentanone	8.77	43	108942	0.448	ppbv	97
51) 2-Hexanone	10.18	43	77862m	0.407	ppbv	
52) Tetrachloroethene	11.25	164	38828m	0.463	ppbv	
53) Toluene	9.83	91	106026m	0.463	ppbv	
54) 1,2-Dibromoethane	10.64	107	66814	0.476	ppbv	92
56) 1,1,1,2-Tetrachloroethane	12.15	131	56327m	0.490	ppbv	
57) Chlorobenzene	12.18	112	109168	0.570	ppbv	93
58) Ethyl Benzene	12.75	91	145873	0.468	ppbv	90
59) m/p-Xylene	13.02	91	286630m	1.041	ppbv	
60) o-Xylene	13.73	91	142255	0.515	ppbv	94
61) Styrene	13.57	104	79654	0.432	ppbv	97
62) Isopropylbenzene	14.71	105	182369	0.509	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.71	83	115962m	0.542	ppbv	
64) n-propylbenzene	15.60	120	43529	0.472	ppbv	76
65) tert-Butylbenzene	16.79	119	158882	0.489	ppbv	98
66) Benzyl Chloride	17.04	91	54105m	0.398	ppbv	
67) sec-Butylbenzene	17.34	105	220416m	0.494	ppbv	
69) p-Isopropyltoluene	17.69	119	166001m	0.458	ppbv	
70) n-Butylbenzene	18.60	91	178933	0.465	ppbv	94
71) 2-Chlorotoluene	15.50	91	131381	0.483	ppbv	99
72) 4-Ethyltoluene	15.88	105	139284	0.459	ppbv	96
73) 1,3,5-Trimethylbenzene	16.04	105	136591	0.460	ppbv	89
74) 1,2,4-Trimethylbenzene	16.81	105	158642	0.483	ppbv #	91
75) 1,3-Dichlorobenzene	17.05	146	104880	0.554	ppbv	98
76) 1,4-Dichlorobenzene	17.19	146	95563m	0.513	ppbv	
77) 1,2-Dichlorobenzene	17.87	146	98658m	0.543	ppbv	
78) Hexachloro-1,3-Butadiene	23.42	225	79918m	0.460	ppbv	
79) Naphthalene	22.27	128	89496m	0.346	ppbv	
80) Naphthalene, 2-methyl-	25.03	142	16124	0.162	ppbv	97
81) 1,2,4-Trichlorobenzene	21.99	180	66985m	0.420	ppbv	

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

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