

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL072920\
 Data File : VL035236.D
 Acq On : 29 Jul 2020 4:39
 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
 7/30/2020 6:10:28 PM

Quant Time: Jul 29 06:14:47 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL072920AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jul 29 2020
 QLast Update : Wed Jul 29 03:31:38 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1384692	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	3388260	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.12	117	3057019	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.45	95	2536697	10.19	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.01	85	106592	0.560	ppbv	89
3) Chlorodifluoromethane	2.94	51	86776	0.566	ppbv	97
4) Chloromethane	3.10	50	47490	0.549	ppbv #	82
5) Vinyl Chloride	3.22	62	43833	0.473	ppbv	92
6) Bromomethane	3.44	94	31976	0.608	ppbv #	73
7) Chloroethane	3.53	64	17421	0.532	ppbv #	84
8) Dichlorotetrafluoroethane	3.15	85	127355	0.596	ppbv	97
9) Propene	2.97	41	25317	0.441	ppbv	91
10) Heptane	8.14	43	61982m	0.416	ppbv	
11) Trichlorofluoromethane	3.92	101	129353	0.586	ppbv	96
12) 1,1,2-Trichlorotrifluoroet	4.46	101	89495	0.577	ppbv	99
13) Ethanol	3.58	45	14576m	0.773	ppbv	
14) Bromoethene	3.71	108	33445m	0.525	ppbv	
15) Acetone	3.83	43	111049	0.590	ppbv	92
16) 1,3-Butadiene	3.29	39	35749m	0.496	ppbv	
17) tert-Butyl alcohol	4.28	59	97489m	0.580	ppbv	
18) 1,1-Dichloroethene	4.27	96	36818m	0.536	ppbv	
19) Isopropyl Alcohol	3.95	45	67739	0.590	ppbv #	90
20) Methylene Chloride	4.32	84	54440	0.662	ppbv	91
21) Allyl Chloride	4.39	41	53029	0.484	ppbv	96
22) trans-1,2-Dichloroethene	4.87	96	36829	0.540	ppbv #	85
23) Vinyl Acetate	5.06	43	89867	0.447	ppbv #	92
24) 1,1-Dichloroethane	4.99	63	93880	0.537	ppbv #	95
25) Ethyl Acetate	5.68	43	144588	0.496	ppbv #	96
26) Hexane	5.68	57	63396m	0.492	ppbv	
27) Carbon Disulfide	4.53	76	94524	0.527	ppbv #	82
28) Methyl tert-Butyl Ether	5.03	73	84640	0.433	ppbv	97
29) Chloroform	5.74	83	123252	0.569	ppbv	100
30) Cyclohexane	7.14	84	36614m	0.385	ppbv	
31) cis-1,2-Dichloroethene	5.54	61	50982m	0.421	ppbv	
32) 1,1,1-Trichloroethane	6.51	97	111315	0.514	ppbv	97
34) 2-Butanone	5.24	43	80737	0.447	ppbv	96
35) Carbon Tetrachloride	7.03	117	110693m	0.500	ppbv	
36) Benzene	6.90	78	106003m	0.432	ppbv	
37) 1,2-Dichloroethane	6.31	62	87358m	0.527	ppbv	
38) Trichloroethene	7.85	130	43564	0.433	ppbv	90
39) 1,2-Dichloropropane	7.63	63	43153	0.439	ppbv	92
40) 1,4-Dioxane	7.89	88	18243m	0.466	ppbv	
41) Tetrahydrofuran	6.06	42	33091m	0.368	ppbv	
42) Bromodichloromethane	7.80	83	106715	0.482	ppbv	91
43) Methyl Methacrylate	8.02	69	40563m	0.388	ppbv	

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.89	57	172457	0.405	ppbv	# 89
45) t-1,3-Dichloropropene	9.30	75	35308m	0.323	ppbv	
46) cis-1,3-Dichloropropene	8.73	75	45158m	0.347	ppbv	
47) 1,1,2-Trichloroethane	9.50	97	57208m	0.531	ppbv	
48) Dibromochloromethane	10.34	129	79796m	0.455	ppbv	
49) Bromoform	13.08	173	69670m	0.450	ppbv	
50) 4-Methyl-2-Pentanone	8.77	43	99179m	0.381	ppbv	
51) 2-Hexanone	10.17	43	65826m	0.330	ppbv	
52) Tetrachloroethene	11.26	164	39348m	0.426	ppbv	
53) Toluene	9.83	91	88837m	0.341	ppbv	
54) 1,2-Dibromoethane	10.64	107	74808m	0.468	ppbv	
56) 1,1,1,2-Tetrachloroethane	12.16	131	78206m	0.570	ppbv	
57) Chlorobenzene	12.18	112	123785m	0.541	ppbv	
58) Ethyl Benzene	12.75	91	120388m	0.352	ppbv	
59) m/p-Xylene	13.03	91	268934m	0.880	ppbv	
60) o-Xylene	13.73	91	130101	0.427	ppbv	95
61) Styrene	13.56	104	58137	0.309	ppbv	99
62) Isopropylbenzene	14.71	105	198227	0.439	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.72	83	131915	0.518	ppbv	96
64) n-propylbenzene	15.61	120	52929m	0.452	ppbv	
65) tert-Butylbenzene	16.79	119	179217m	0.442	ppbv	
66) Benzyl Chloride	17.04	91	74823m	0.512	ppbv	
67) sec-Butylbenzene	17.34	105	271664	0.460	ppbv	97
69) p-Isopropyltoluene	17.70	119	207517	0.445	ppbv	95
70) n-Butylbenzene	18.60	91	240990m	0.487	ppbv	
71) 2-Chlorotoluene	15.49	91	140686	0.411	ppbv	97
72) 4-Ethyltoluene	15.88	105	131961	0.383	ppbv	# 97
73) 1,3,5-Trimethylbenzene	16.04	105	137563	0.415	ppbv	93
74) 1,2,4-Trimethylbenzene	16.80	105	184192	0.500	ppbv	99
75) 1,3-Dichlorobenzene	17.04	146	142248	0.608	ppbv	93
76) 1,4-Dichlorobenzene	17.18	146	105313	0.485	ppbv	94
77) 1,2-Dichlorobenzene	17.87	146	113613m	0.538	ppbv	
78) Hexachloro-1,3-Butadiene	23.43	225	109414m	0.661	ppbv	
79) Naphthalene	22.27	128	112254m	0.459	ppbv	
80) Naphthalene, 2-methyl-	25.03	142	32060	0.550	ppbv	93
81) 1,2,4-Trichlorobenzene	22.00	180	83762m	0.542	ppbv	

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

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