

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL072920\
 Data File : VL035234.D
 Acq On : 29 Jul 2020 3:24
 Operator : SY/AP
 Sample : VSTDIC002
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Manual Integrations
 APPROVED

MMDadoda
 7/30/2020 6:10:20 PM

Quant Time: Jul 29 06:05:32 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL072920AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed 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	1475802	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	3551526	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.12	117	3400561	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.46	95	2687108	9.71	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.10%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.01	85	353734	1.743	ppbv	93
3) Chlorodifluoromethane	2.94	51	353255	2.161	ppbv	98
4) Chloromethane	3.10	50	196245	2.127	ppbv	98
5) Vinyl Chloride	3.22	62	200347	2.030	ppbv	95
6) Bromomethane	3.44	94	122968	2.195	ppbv	98
7) Chloroethane	3.52	64	73704	2.111	ppbv	98
8) Dichlorotetrafluoroethane	3.15	85	466500	2.049	ppbv	100
9) Propene	2.97	41	125342	2.048	ppbv	95
10) Heptane	8.13	43	330740m	2.081	ppbv	
11) Trichlorofluoromethane	3.92	101	500459	2.128	ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.46	101	355250	2.150	ppbv	100
13) Ethanol	3.57	45	55525m	2.763	ppbv	
14) Bromoethene	3.71	108	147879	2.179	ppbv	99
15) Acetone	3.82	43	434747	2.167	ppbv	94
16) 1,3-Butadiene	3.29	39	167946	2.185	ppbv	98
17) tert-Butyl alcohol	4.27	59	399311	2.229	ppbv	100
18) 1,1-Dichloroethene	4.26	96	159219	2.174	ppbv	89
19) Isopropyl Alcohol	3.94	45	282750	2.312	ppbv	99
20) Methylene Chloride	4.32	84	205856	2.347	ppbv	99
21) Allyl Chloride	4.38	41	246187	2.107	ppbv	97
22) trans-1,2-Dichloroethene	4.86	96	151419	2.082	ppbv	90
23) Vinyl Acetate	5.05	43	420185	1.959	ppbv #	97
24) 1,1-Dichloroethane	5.00	63	401550	2.156	ppbv	97
25) Ethyl Acetate	5.67	43	681396	2.192	ppbv	98
26) Hexane	5.67	57	314503	2.290	ppbv	98
27) Carbon Disulfide	4.53	76	389763	2.041	ppbv	99
28) Methyl tert-Butyl Ether	5.02	73	442983	2.125	ppbv	100
29) Chloroform	5.74	83	494343	2.142	ppbv	87
30) Cyclohexane	7.14	84	216269	2.132	ppbv #	79
31) cis-1,2-Dichloroethene	5.54	61	258017	1.999	ppbv	94
32) 1,1,1-Trichloroethane	6.51	97	471250	2.043	ppbv	99
34) 2-Butanone	5.23	43	400275	2.113	ppbv	99
35) Carbon Tetrachloride	7.03	117	478841	2.064	ppbv	93
36) Benzene	6.90	78	541112	2.103	ppbv	94
37) 1,2-Dichloroethane	6.30	62	372878	2.146	ppbv	99
38) Trichloroethene	7.85	130	232587	2.205	ppbv	97
39) 1,2-Dichloropropane	7.62	63	217423	2.112	ppbv	94
40) 1,4-Dioxane	7.86	88	74531	1.816	ppbv #	1
41) Tetrahydrofuran	6.05	42	202076	2.144	ppbv	96
42) Bromodichloromethane	7.80	83	491865	2.120	ppbv #	92
43) Methyl Methacrylate	8.02	69	228759	2.089	ppbv	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.88	57	999329	2.241	ppbv	99
45) t-1,3-Dichloropropene	9.30	75	215968	1.885	ppbv	96
46) cis-1,3-Dichloropropene	8.72	75	277103	2.033	ppbv	98
47) 1,1,2-Trichloroethane	9.50	97	244045	2.159	ppbv	95
48) Dibromochloromethane	10.33	129	384349	2.093	ppbv	100
49) Bromoform	13.08	173	338608	2.088	ppbv	99
50) 4-Methyl-2-Pentanone	8.76	43	588307	2.157	ppbv	97
51) 2-Hexanone	10.16	43	434401	2.080	ppbv #	98
52) Tetrachloroethene	11.25	164	195381	2.018	ppbv	92
53) Toluene	9.83	91	586220	2.149	ppbv	96
54) 1,2-Dibromoethane	10.64	107	361267	2.156	ppbv	96
56) 1,1,1,2-Tetrachloroethane	12.16	131	328808	2.153	ppbv #	1
57) Chlorobenzene	12.18	112	551961	2.168	ppbv	97
58) Ethyl Benzene	12.74	91	822611	2.163	ppbv	96
59) m/p-Xylene	13.03	91	1524283m	4.484	ppbv	
60) o-Xylene	13.73	91	764338	2.254	ppbv	98
61) Styrene	13.56	104	465524	2.223	ppbv	99
62) Isopropylbenzene	14.71	105	1132093	2.252	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.72	83	596909	2.107	ppbv	100
64) n-propylbenzene	15.61	120	300483	2.308	ppbv	89
65) tert-Butylbenzene	16.79	119	1044211	2.313	ppbv	98
66) Benzyl Chloride	17.03	91	356101	2.190	ppbv	97
67) sec-Butylbenzene	17.34	105	1539071	2.341	ppbv	98
69) p-Isopropyltoluene	17.69	119	1252641m	2.413	ppbv	
70) n-Butylbenzene	18.60	91	1357793	2.466	ppbv	96
71) 2-Chlorotoluene	15.49	91	849377	2.231	ppbv	98
72) 4-Ethyltoluene	15.88	105	861989	2.248	ppbv	98
73) 1,3,5-Trimethylbenzene	16.04	105	841559	2.281	ppbv	99
74) 1,2,4-Trimethylbenzene	16.80	105	969137	2.366	ppbv #	87
75) 1,3-Dichlorobenzene	17.04	146	584953	2.246	ppbv	99
76) 1,4-Dichlorobenzene	17.18	146	555906	2.300	ppbv	99
77) 1,2-Dichlorobenzene	17.87	146	537715	2.289	ppbv	98
78) Hexachloro-1,3-Butadiene	23.43	225	455657	2.476	ppbv	98
79) Naphthalene	22.27	128	803909	2.952	ppbv	97
80) Naphthalene, 2-methyl-	25.02	142	220974	3.406	ppbv	98
81) 1,2,4-Trichlorobenzene	22.00	180	471111	2.742	ppbv	99

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

