

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL040921\
 Data File : VL036769.D
 Acq On : 9 Apr 2021 10:01
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

MMDadoda
 4/12/2021 5:42:34 PM

Quant Time: Apr 10 03:14:41 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Mar 2
 QLast Update : Thu Mar 25 09:42:40 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1420351	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.17	114	3628330	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.08	117	3001560m	10.00	ppbv	-0.01

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.40	95	2080517	8.70	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	87.00%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.04	85	1922697	8.299 ppbv	97
3) Chlorodifluoromethane	2.98	51	2308656	8.700 ppbv	100
4) Chloromethane	3.13	50	826947	8.822 ppbv	98
5) Vinyl Chloride	3.25	62	789954	8.196 ppbv	96
6) Bromomethane	3.46	94	461010	8.688 ppbv	97
7) Chloroethane	3.55	64	283551	8.562 ppbv	98
8) Dichlorotetrafluoroethane	3.18	85	1928138	8.720 ppbv	99
9) Propene	3.00	41	758932	8.971 ppbv	99
10) Heptane	8.11	43	1961708	9.102 ppbv	100
11) Trichlorofluoromethane	3.94	101	2013731	8.530 ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.47	101	1323159	8.766 ppbv	100
13) Ethanol	3.59	45	103469m	10.270 ppbv	
14) Bromoethene	3.73	108	541234	8.625 ppbv	97
15) Acetone	3.84	43	1103405	7.893 ppbv	97
16) 1,3-Butadiene	3.32	39	835346	8.583 ppbv	96
17) tert-Butyl alcohol	4.28	59	1279884	10.517 ppbv	99
18) 1,1-Dichloroethene	4.28	96	571779	8.516 ppbv	96
19) Isopropyl Alcohol	3.95	45	760390	9.888 ppbv	# 97
20) Methylene Chloride	4.33	84	526370	8.042 ppbv	99
21) Allyl Chloride	4.40	41	1007041	9.037 ppbv	99
22) trans-1,2-Dichloroethene	4.87	96	575802	9.250 ppbv	91
23) Vinyl Acetate	5.06	43	2273914	9.509 ppbv	99
24) 1,1-Dichloroethane	5.00	63	1531136	8.785 ppbv	99
25) Ethyl Acetate	5.67	43	3043644	9.158 ppbv	100
26) Hexane	5.67	57	1417967	9.194 ppbv	99
27) Carbon Disulfide	4.54	76	1499891	9.872 ppbv	98
28) Methyl tert-Butyl Ether	5.02	73	1726359	9.491 ppbv	100
29) Chloroform	5.74	83	2216020	8.984 ppbv	98
30) Cyclohexane	7.12	84	1224727	9.791 ppbv	96
31) cis-1,2-Dichloroethene	5.54	61	1417963	9.505 ppbv	96
32) 1,1,1-Trichloroethane	6.50	97	2248572	9.046 ppbv	99
34) 2-Butanone	5.23	43	1514061	8.549 ppbv	99
35) Carbon Tetrachloride	7.01	117	2378771	8.536 ppbv	98
36) Benzene	6.88	78	2962031	8.852 ppbv	99
37) 1,2-Dichloroethane	6.30	62	1710405	8.684 ppbv	100
38) Trichloroethene	7.82	130	1051385	8.073 ppbv	98
39) 1,2-Dichloropropane	7.60	63	1146405	8.445 ppbv	98
40) 1,4-Dioxane	7.82	88	305588	9.673 ppbv	70
41) Tetrahydrofuran	6.04	42	736723	9.022 ppbv	96
42) Bromodichloromethane	7.78	83	2410452	8.998 ppbv	99
43) Methyl Methacrylate	8.00	69	1065350	9.481 ppbv	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.86	57	4953045	8.410	ppbv	99
45) t-1,3-Dichloropropene	9.27	75	1282014	9.992	ppbv	96
46) cis-1,3-Dichloropropene	8.69	75	1603290	9.775	ppbv	99
47) 1,1,2-Trichloroethane	9.46	97	1206427	8.775	ppbv	94
48) Dibromochloromethane	10.29	129	2002951	9.556	ppbv	100
49) Bromoform	13.03	173	1642206	9.724	ppbv	99
50) 4-Methyl-2-Pentanone	8.73	43	2273640	8.872	ppbv	100
51) 2-Hexanone	10.12	43	1214346	9.390	ppbv #	98
52) Tetrachloroethene	11.21	164	997843	8.098	ppbv	93
53) Toluene	9.80	91	3330814	9.347	ppbv	100
54) 1,2-Dibromoethane	10.60	107	1743940	8.982	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.12	131	1347440	9.925	ppbv	98
57) Chlorobenzene	12.14	112	2442869	9.565	ppbv	99
58) Ethyl Benzene	12.70	91	4447254	10.184	ppbv	99
59) m/p-Xylene	12.99	91	7538806m	19.793	ppbv	
60) o-Xylene	13.68	91	3533261	9.594	ppbv	100
61) Styrene	13.52	104	2072771	11.187	ppbv	99
62) Isopropylbenzene	14.66	105	4783712	9.646	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.67	83	2587240	9.209	ppbv	99
64) n-propylbenzene	15.55	120	1256653	10.364	ppbv	100
65) tert-Butylbenzene	16.74	119	4180513	9.721	ppbv	100
66) Benzyl Chloride	16.98	91	567216	11.933	ppbv	97
67) sec-Butylbenzene	17.29	105	5867807	9.666	ppbv	100
69) p-Isopropyltoluene	17.64	119	4857255	10.246	ppbv	99
70) n-Butylbenzene	18.54	91	4984714	10.142	ppbv	99
71) 2-Chlorotoluene	15.45	91	3697652	9.950	ppbv	99
72) 4-Ethyltoluene	15.83	105	4218553	10.454	ppbv	99
73) 1,3,5-Trimethylbenzene	15.99	105	3789223	10.060	ppbv	99
74) 1,2,4-Trimethylbenzene	16.76	105	3916837	9.718	ppbv	94
75) 1,3-Dichlorobenzene	16.99	146	2274601	10.026	ppbv	99
76) 1,4-Dichlorobenzene	17.13	146	2164606	9.609	ppbv	99
77) 1,2-Dichlorobenzene	17.81	146	2186274	10.252	ppbv	99
78) Hexachloro-1,3-Butadiene	23.37	225	1599174	8.373	ppbv	99
79) Naphthalene	22.19	128	2678358	11.388	ppbv	100
80) Naphthalene, 2-methyl-	24.97	142	539706	11.637	ppbv	97
81) 1,2,4-Trichlorobenzene	21.92	180	1495687	10.300	ppbv	98

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

