

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL040121\
 Data File : VL036639.D
 Acq On : 1 Apr 2021 21:59
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 4/2/2021 6:55:20 PM

Quant Time: Apr 02 02:11:39 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	5.66	49	1213913	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	3197571	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	2891143m	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.42	95	2261542	9.81	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.10%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.05	85	1542260	7.789 ppbv	96
3) Chlorodifluoromethane	2.99	51	2030261	8.952 ppbv	99
4) Chloromethane	3.14	50	667071	8.327 ppbv	97
5) Vinyl Chloride	3.26	62	654344	7.944 ppbv	99
6) Bromomethane	3.47	94	371350	8.188 ppbv	100
7) Chloroethane	3.55	64	236420	8.353 ppbv	92
8) Dichlorotetrafluoroethane	3.19	85	1585745	8.392 ppbv	95
9) Propene	3.01	41	674485	9.328 ppbv	95
10) Heptane	8.12	43	1925358	10.453 ppbv	99
11) Trichlorofluoromethane	3.95	101	1646915	8.162 ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.48	101	1139978	8.837 ppbv	99
13) Ethanol	3.61	45	89737m	10.422 ppbv	
14) Bromoethene	3.74	108	481190	8.972 ppbv	99
15) Acetone	3.87	43	4546068	38.050 ppbv #	65
16) 1,3-Butadiene	3.33	39	703622	8.459 ppbv	98
17) tert-Butyl alcohol	4.29	59	1052148	10.116 ppbv	98
18) 1,1-Dichloroethene	4.29	96	511194	8.908 ppbv	98
19) Isopropyl Alcohol	3.97	45	600707	9.140 ppbv #	1
20) Methylene Chloride	4.34	84	449054	8.027 ppbv	94
21) Allyl Chloride	4.41	41	869800	9.132 ppbv	93
22) trans-1,2-Dichloroethene	4.89	96	492793	9.263 ppbv	88
23) Vinyl Acetate	5.11	43	2616139m	12.801 ppbv	
24) 1,1-Dichloroethane	5.01	63	1306283	8.769 ppbv	99
25) Ethyl Acetate	5.68	43	2982098	10.498 ppbv #	96
26) Hexane	5.69	57	1811523	13.743 ppbv #	81
27) Carbon Disulfide	4.55	76	1272842	9.802 ppbv	97
28) Methyl tert-Butyl Ether	5.04	73	1470481	9.459 ppbv	99
29) Chloroform	5.75	83	1794795	8.514 ppbv	96
30) Cyclohexane	7.13	84	1132059	10.589 ppbv	99
31) cis-1,2-Dichloroethene	5.55	61	1162213	9.116 ppbv	99
32) 1,1,1-Trichloroethane	6.51	97	1867879	8.792 ppbv	99
34) 2-Butanone	5.25	43	1166929	7.476 ppbv	99
35) Carbon Tetrachloride	7.02	117	1944725	7.918 ppbv	98
36) Benzene	6.89	78	2614982	8.867 ppbv	99
37) 1,2-Dichloroethane	6.30	62	1377741	7.938 ppbv	100
38) Trichloroethene	7.84	130	937242	8.166 ppbv	93
39) 1,2-Dichloropropane	7.61	63	972146	8.126 ppbv	94
40) 1,4-Dioxane	7.83	88	198593m	7.133 ppbv	
41) Tetrahydrofuran	6.05	42	558531	7.761 ppbv	96
42) Bromodichloromethane	7.79	83	1935879	8.200 ppbv	97
43) Methyl Methacrylate	8.01	69	971728	9.813 ppbv	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.87	57	9132084	17.595	ppbv	97
45) t-1,3-Dichloropropene	9.28	75	956839	8.462	ppbv	99
46) cis-1,3-Dichloropropene	8.70	75	1180675	8.168	ppbv	99
47) 1,1,2-Trichloroethane	9.47	97	955490	7.886	ppbv	97
48) Dibromochloromethane	10.30	129	1731788	9.376	ppbv	100
49) Bromoform	13.04	173	1546763	10.393	ppbv	99
50) 4-Methyl-2-Pentanone	8.75	43	1873758	8.297	ppbv	98
51) 2-Hexanone	10.14	43	1002933	8.800	ppbv #	97
52) Tetrachloroethene	11.23	164	991257	9.128	ppbv	94
53) Toluene	9.81	91	2830499	9.013	ppbv	100
54) 1,2-Dibromoethane	10.61	107	1422027	8.310	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.13	131	1205940	9.222	ppbv #	57
57) Chlorobenzene	12.15	112	2087885	8.487	ppbv	98
58) Ethyl Benzene	12.71	91	3858079	9.172	ppbv	100
59) m/p-Xylene	13.00	91	6401429m	17.449	ppbv	
60) o-Xylene	13.70	91	2978841	8.397	ppbv	100
61) Styrene	13.53	104	1691912	9.480	ppbv	99
62) Isopropylbenzene	14.67	105	4269844	8.938	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.68	83	2042577	7.548	ppbv	99
64) n-propylbenzene	15.56	120	1127170	9.651	ppbv	95
65) tert-Butylbenzene	16.75	119	3785719	9.139	ppbv	97
66) Benzyl Chloride	16.99	91	513007	11.204	ppbv	95
67) sec-Butylbenzene	17.30	105	5162671	8.829	ppbv	99
69) p-Isopropyltoluene	17.66	119	4421576	9.684	ppbv	98
70) n-Butylbenzene	18.55	91	4295908	9.074	ppbv	98
71) 2-Chlorotoluene	15.46	91	3230760	9.026	ppbv	98
72) 4-Ethyltoluene	15.84	105	3599953	9.261	ppbv	99
73) 1,3,5-Trimethylbenzene	16.00	105	3253663	8.968	ppbv	98
74) 1,2,4-Trimethylbenzene	16.77	105	3341406	8.607	ppbv	96
75) 1,3-Dichlorobenzene	17.00	146	2053385	9.397	ppbv	98
76) 1,4-Dichlorobenzene	17.14	146	2017801	9.300	ppbv	97
77) 1,2-Dichlorobenzene	17.82	146	1975083	9.615	ppbv	97
78) Hexachloro-1,3-Butadiene	23.38	225	1623143	8.823	ppbv	98
79) Naphthalene	22.21	128	2298562	10.146	ppbv	99
80) Naphthalene, 2-methyl-	24.99	142	237848	5.324	ppbv	93
81) 1,2,4-Trichlorobenzene	21.93	180	1489008	10.645	ppbv	100

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

