

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL040621\
 Data File : VL036701.D
 Acq On : 6 Apr 2021 15:47
 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 11:10:50 AM

Quant Time: Apr 07 05:53:19 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	5.67	49	1263749	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	3210769	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.10	117	3025131	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.43	95	2498864	10.36	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.60%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.05	85	2128668	10.327 ppbv	99
3) Chlorodifluoromethane	2.99	51	2345270	9.933 ppbv	100
4) Chloromethane	3.14	50	821211	9.847 ppbv	98
5) Vinyl Chloride	3.26	62	813946	9.492 ppbv	100
6) Bromomethane	3.47	94	464852	9.846 ppbv	95
7) Chloroethane	3.56	64	276735	9.391 ppbv	99
8) Dichlorotetrafluoroethane	3.19	85	1887676	9.595 ppbv	96
9) Propene	3.01	41	755634	10.039 ppbv	97
10) Heptane	8.13	43	1995900	10.408 ppbv	99
11) Trichlorofluoromethane	3.95	101	1968927	9.373 ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.49	101	1285469	9.571 ppbv	100
13) Ethanol	3.61	45	75563	8.430 ppbv	91
14) Bromoethene	3.74	108	539958	9.671 ppbv	99
15) Acetone	3.85	43	1115831	8.971 ppbv	100
16) 1,3-Butadiene	3.33	39	802791	9.271 ppbv	95
17) tert-Butyl alcohol	4.30	59	1122644	10.368 ppbv	99
18) 1,1-Dichloroethene	4.29	96	568177	9.511 ppbv	96
19) Isopropyl Alcohol	3.97	45	652857	9.542 ppbv	# 98
20) Methylene Chloride	4.35	84	496458	8.525 ppbv	93
21) Allyl Chloride	4.42	41	952580	9.607 ppbv	99
22) trans-1,2-Dichloroethene	4.89	96	536517	9.687 ppbv	97
23) Vinyl Acetate	5.08	43	2056921	9.668 ppbv	99
24) 1,1-Dichloroethane	5.02	63	1540784	9.935 ppbv	100
25) Ethyl Acetate	5.68	43	2987451	10.103 ppbv	100
26) Hexane	5.69	57	1410672	10.280 ppbv	99
27) Carbon Disulfide	4.56	76	1364312	10.092 ppbv	98
28) Methyl tert-Butyl Ether	5.04	73	1636936	10.115 ppbv	99
29) Chloroform	5.76	83	2219383	10.113 ppbv	100
30) Cyclohexane	7.14	84	1187538	10.670 ppbv	99
31) cis-1,2-Dichloroethene	5.56	61	1363692	10.274 ppbv	95
32) 1,1,1-Trichloroethane	6.52	97	2225015	10.060 ppbv	99
34) 2-Butanone	5.25	43	1484207	9.470 ppbv	98
35) Carbon Tetrachloride	7.02	117	2362504	9.580 ppbv	99
36) Benzene	6.90	78	2916668	9.850 ppbv	98
37) 1,2-Dichloroethane	6.31	62	1676861	9.621 ppbv	100
38) Trichloroethene	7.85	130	1081668	9.386 ppbv	95
39) 1,2-Dichloropropane	7.62	63	1124946	9.365 ppbv	95
40) 1,4-Dioxane	7.84	88	239362	8.562 ppbv	# 1
41) Tetrahydrofuran	6.06	42	675340	9.345 ppbv	93
42) Bromodichloromethane	7.80	83	2383835	10.056 ppbv	99
43) Methyl Methacrylate	8.02	69	1027932	10.338 ppbv	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.88	57	4943954	9.486	ppbv	99
45) t-1,3-Dichloropropene	9.29	75	1210490	10.661	ppbv	99
46) cis-1,3-Dichloropropene	8.71	75	1527928	10.527	ppbv	100
47) 1,1,2-Trichloroethane	9.49	97	1199003	9.855	ppbv	97
48) Dibromochloromethane	10.31	129	1961081	10.574	ppbv	98
49) Bromoform	13.05	173	1606471	10.750	ppbv	99
50) 4-Methyl-2-Pentanone	8.75	43	2307487	10.175	ppbv	100
51) 2-Hexanone	10.15	43	1207383m	10.550	ppbv	
52) Tetrachloroethene	11.23	164	1001046	9.180	ppbv	98
53) Toluene	9.82	91	3283745	10.413	ppbv	99
54) 1,2-Dibromoethane	10.62	107	1726773	10.050	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.14	131	1329032	9.713	ppbv	98
57) Chlorobenzene	12.16	112	2452482	9.528	ppbv	99
58) Ethyl Benzene	12.73	91	4452657	10.117	ppbv	99
59) m/p-Xylene	13.01	91	7492634m	19.518	ppbv	
60) o-Xylene	13.71	91	3578132	9.640	ppbv	99
61) Styrene	13.54	104	2095076	11.219	ppbv	99
62) Isopropylbenzene	14.68	105	4823857	9.651	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.69	83	2575700	9.097	ppbv	99
64) n-propylbenzene	15.57	120	1267483	10.372	ppbv	100
65) tert-Butylbenzene	16.76	119	4211350	9.716	ppbv	100
66) Benzyl Chloride	17.00	91	445917m	9.308	ppbv	
67) sec-Butylbenzene	17.31	105	5970823	9.759	ppbv	99
69) p-Isopropyltoluene	17.67	119	4948810	10.358	ppbv	99
70) n-Butylbenzene	18.57	91	5065848	10.226	ppbv	99
71) 2-Chlorotoluene	15.47	91	3757370	10.032	ppbv	99
72) 4-Ethyltoluene	15.86	105	4214408	10.362	ppbv	100
73) 1,3,5-Trimethylbenzene	16.01	105	3842165	10.121	ppbv	100
74) 1,2,4-Trimethylbenzene	16.78	105	3971733	9.777	ppbv	98
75) 1,3-Dichlorobenzene	17.01	146	2292439	10.026	ppbv	99
76) 1,4-Dichlorobenzene	17.15	146	2213677	9.751	ppbv	99
77) 1,2-Dichlorobenzene	17.83	146	2173838	10.114	ppbv	99
78) Hexachloro-1,3-Butadiene	23.39	225	1637433	8.507	ppbv	100
79) Naphthalene	22.22	128	2586794	10.913	ppbv	99
80) Naphthalene, 2-methyl-	24.99	142	493932	10.567	ppbv	97
81) 1,2,4-Trichlorobenzene	21.95	180	1506331	10.292	ppbv	98

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

