

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL120720\
 Data File : VL036064.D
 Acq On : 7 Dec 2020 12:29
 Operator : SY/AP
 Sample : VSTDICCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

MMDadoda
 12/10/2020 9:53:12 AM

Quant Time: Dec 07 13:05:48 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL120720AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Dec 0
 QLast Update : Fri Dec 04 03:46:13 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1262596	10.00	ppbv	0.03
33) 1,4-Difluorobenzene	7.20	114	2946303	10.00	ppbv	0.04
55) Chlorobenzene-d5	12.11	117	2746309m	10.00	ppbv	0.04

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.45	95	2206095	10.51	ppbv	0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.10%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	1378469	6.272	ppbv	99
3) Chlorodifluoromethane	2.99	51	1391913	9.345	ppbv	93
4) Chloromethane	3.14	50	680125	9.329	ppbv	97
5) Vinyl Chloride	3.26	62	693299	7.489	ppbv	95
6) Bromomethane	3.48	94	379129	5.206	ppbv	94
7) Chloroethane	3.56	64	242938	7.304	ppbv	96
8) Dichlorotetrafluoroethane	3.19	85	1582696	6.107	ppbv	91
9) Propene	3.02	41	652419	12.543	ppbv	100
10) Heptane	8.15	43	1741295	12.268	ppbv #	82
11) Trichlorofluoromethane	3.96	101	1678325	5.634	ppbv	96
12) 1,1,2-Trichlorotrifluoroet	4.50	101	1142239	5.097	ppbv	95
13) Ethanol	3.61	45	92301	8.774	ppbv	88
14) Bromoethene	3.75	108	466561	5.137	ppbv #	91
15) Acetone	3.86	43	1310906	9.993	ppbv #	86
16) 1,3-Butadiene	3.33	39	730475	12.671	ppbv #	71
17) tert-Butyl alcohol	4.30	59	1434583	9.978	ppbv	99
18) 1,1-Dichloroethene	4.30	96	510162	5.131	ppbv #	61
19) Isopropyl Alcohol	3.98	45	876660m	12.458	ppbv	
20) Methylene Chloride	4.36	84	469895m	4.141	ppbv	
21) Allyl Chloride	4.42	41	1007832m	14.416	ppbv	
22) trans-1,2-Dichloroethene	4.90	96	511801	5.187	ppbv #	66
23) Vinyl Acetate	5.09	43	1972842	12.736	ppbv #	93
24) 1,1-Dichloroethane	5.02	63	1334216	7.540	ppbv	96
25) Ethyl Acetate	5.69	43	2941726	11.151	ppbv #	93
26) Hexane	5.70	57	1196140	8.540	ppbv #	69
27) Carbon Disulfide	4.56	76	1386264	6.795	ppbv #	85
28) Methyl tert-Butyl Ether	5.05	73	1865907	8.937	ppbv #	91
29) Chloroform	5.77	83	1735882	6.558	ppbv	100
30) Cyclohexane	7.15	84	934431	7.066	ppbv #	50
31) cis-1,2-Dichloroethene	5.56	61	1213855	9.468	ppbv #	76
32) 1,1,1-Trichloroethane	6.53	97	1742689	7.182	ppbv #	93
34) 2-Butanone	5.26	43	1748151	17.310	ppbv #	82
35) Carbon Tetrachloride	7.04	117	1735930	11.269	ppbv	99
36) Benzene	6.91	78	2365655	11.739	ppbv #	93
37) 1,2-Dichloroethane	6.33	62	1404668	13.437	ppbv #	94
38) Trichloroethene	7.86	130	826209	9.164	ppbv	93
39) 1,2-Dichloropropane	7.64	63	966300	12.516	ppbv #	85
40) 1,4-Dioxane	7.85	88	288942	11.223	ppbv #	1
41) Tetrahydrofuran	6.07	42	1081640	20.516	ppbv #	75
42) Bromodichloromethane	7.81	83	1927715	11.659	ppbv #	95
43) Methyl Methacrylate	8.03	69	1060798	14.451	ppbv #	56

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

44) 2,2,4-Trimethylpentane	7.89	57	4219603	14.126	ppbv #	92
45) t-1,3-Dichloropropene	9.30	75	1171533	16.884	ppbv	98
46) cis-1,3-Dichloropropene	8.73	75	1384159	14.882	ppbv #	70
47) 1,1,2-Trichloroethane	9.50	97	898617	9.286	ppbv	99
48) Dibromochloromethane	10.33	129	1512120	11.103	ppbv	99
49) Bromoform	13.07	173	1238491	12.258	ppbv	100
50) 4-Methyl-2-Pentanone	8.76	43	2806581	18.284	ppbv #	86
51) 2-Hexanone	10.16	43	2168322	19.522	ppbv #	88
52) Tetrachloroethene	11.25	164	784703	10.044	ppbv	98
53) Toluene	9.83	91	2676577	12.199	ppbv	98
54) 1,2-Dibromoethane	10.64	107	1354778	9.869	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.15	131	1130169	10.076	ppbv	97
57) Chlorobenzene	12.18	112	1830511	9.035	ppbv #	87
58) Ethyl Benzene	12.74	91	3543095	13.043	ppbv	90
59) m/p-Xylene	13.02	91	5959943m	24.064	ppbv	
60) o-Xylene	13.72	91	2765861	11.067	ppbv	93
61) Styrene	13.56	104	1897473	13.404	ppbv #	92
62) Isopropylbenzene	14.70	105	4086871	11.016	ppbv	94
63) 1,1,2,2-Tetrachloroethane	13.71	83	1797375	8.580	ppbv	98
64) n-propylbenzene	15.59	120	1016218	10.405	ppbv	70
65) tert-Butylbenzene	16.78	119	3334607	10.722	ppbv	92
66) Benzyl Chloride	17.02	91	1105002	14.751	ppbv	98
67) sec-Butylbenzene	17.32	105	4642657	10.929	ppbv	96
69) p-Isopropyltoluene	17.68	119	3768655	11.750	ppbv	94
70) n-Butylbenzene	18.58	91	3744597	11.791	ppbv	96
71) 2-Chlorotoluene	15.48	91	3108324	12.180	ppbv	93
72) 4-Ethyltoluene	15.87	105	3054334	11.870	ppbv	96
73) 1,3,5-Trimethylbenzene	16.03	105	2881848	11.952	ppbv	92
74) 1,2,4-Trimethylbenzene	16.79	105	2864744	10.649	ppbv	90
75) 1,3-Dichlorobenzene	17.02	146	1468632	9.031	ppbv	96
76) 1,4-Dichlorobenzene	17.17	146	1474482	9.593	ppbv	97
77) 1,2-Dichlorobenzene	17.85	146	1368067	9.171	ppbv	96
78) Hexachloro-1,3-Butadiene	23.41	225	1076563	13.128	ppbv	99
79) Naphthalene	22.23	128	1800752m	14.353	ppbv	
80) Naphthalene, 2-methyl-	25.00	142	737729	29.020	ppbv #	92
81) 1,2,4-Trichlorobenzene	21.96	180	1118448m	12.976	ppbv	

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

