

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL040621\
 Data File : VL036724.D
 Acq On : 7 Apr 2021 11:02
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA L
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 4/12/2021 11:12:26 AM

Quant Time: Apr 08 01:54:32 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Mar 25 2021
 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	1225841	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3100160	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	2870238m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	2434997	10.64	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	106.40%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	1894935	9.478	ppbv	97
3) Chlorodifluoromethane	2.98	51	2350428	10.262	ppbv	100
4) Chloromethane	3.14	50	765027	9.457	ppbv	97
5) Vinyl Chloride	3.26	62	743416	8.937	ppbv	96
6) Bromomethane	3.47	94	402985	8.799	ppbv	95
7) Chloroethane	3.55	64	263273	9.211	ppbv	94
8) Dichlorotetrafluoroethane	3.18	85	1814533	9.509	ppbv	98
9) Propene	3.01	41	700205	9.590	ppbv	99
10) Heptane	8.12	43	1839069	9.887	ppbv	99
11) Trichlorofluoromethane	3.94	101	1836817	9.015	ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.48	101	1202541	9.231	ppbv	99
13) Ethanol	3.60	45	81637m	9.389	ppbv	
14) Bromoethene	3.74	108	493351	9.109	ppbv	99
15) Acetone	3.85	43	1065633	8.832	ppbv	99
16) 1,3-Butadiene	3.32	39	808842	9.629	ppbv	96
17) tert-Butyl alcohol	4.29	59	1060540	10.098	ppbv	100
18) 1,1-Dichloroethene	4.29	96	520913	8.989	ppbv	99
19) Isopropyl Alcohol	3.96	45	602488	9.078	ppbv #	97
20) Methylene Chloride	4.34	84	438804	7.768	ppbv	97
21) Allyl Chloride	4.41	41	812580	8.449	ppbv	95
22) trans-1,2-Dichloroethene	4.88	96	514929	9.585	ppbv	97
23) Vinyl Acetate	5.07	43	1955098	9.473	ppbv	99
24) 1,1-Dichloroethane	5.01	63	1386117	9.214	ppbv	98
25) Ethyl Acetate	5.68	43	2722662	9.492	ppbv	99
26) Hexane	5.68	57	1319444	9.912	ppbv	97
27) Carbon Disulfide	4.55	76	1236150	9.427	ppbv	98
28) Methyl tert-Butyl Ether	5.03	73	1419252	9.041	ppbv	97
29) Chloroform	5.75	83	2087337	9.805	ppbv	98
30) Cyclohexane	7.13	84	1107725	10.261	ppbv	98
31) cis-1,2-Dichloroethene	5.55	61	1258868	9.778	ppbv	99
32) 1,1,1-Trichloroethane	6.51	97	2094351	9.762	ppbv	99
34) 2-Butanone	5.24	43	1298215	8.579	ppbv	98
35) Carbon Tetrachloride	7.01	117	2161747	9.079	ppbv	98
36) Benzene	6.89	78	2742451	9.592	ppbv	98
37) 1,2-Dichloroethane	6.30	62	1580293	9.391	ppbv	100
38) Trichloroethene	7.83	130	1004159	9.024	ppbv	93
39) 1,2-Dichloropropane	7.61	63	1063820	9.172	ppbv	99
40) 1,4-Dioxane	7.83	88	254538m	9.429	ppbv	
41) Tetrahydrofuran	6.05	42	547043	7.840	ppbv	93
42) Bromodichloromethane	7.79	83	2193850	9.584	ppbv	98
43) Methyl Methacrylate	8.01	69	1020463	10.629	ppbv	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.87	57	4840532	9.619	ppbv	99
45) t-1,3-Dichloropropene	9.28	75	979478	8.934	ppbv	99
46) cis-1,3-Dichloropropene	8.70	75	1267330	9.043	ppbv	96
47) 1,1,2-Trichloroethane	9.47	97	1127747	9.600	ppbv	96
48) Dibromochloromethane	10.30	129	1823828	10.184	ppbv	100
49) Bromoform	13.04	173	1489436	10.322	ppbv	98
50) 4-Methyl-2-Pentanone	8.74	43	1946766	8.891	ppbv	100
51) 2-Hexanone	10.14	43	1047653	9.481	ppbv #	99
52) Tetrachloroethene	11.22	164	943625	8.963	ppbv	98
53) Toluene	9.81	91	3094745	10.164	ppbv	100
54) 1,2-Dibromoethane	10.61	107	1618120	9.753	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.13	131	1288808	9.928	ppbv	95
57) Chlorobenzene	12.15	112	2317437	9.489	ppbv	98
58) Ethyl Benzene	12.71	91	4200659	10.060	ppbv	100
59) m/p-Xylene	13.00	91	7122614m	19.556	ppbv	
60) o-Xylene	13.70	91	3355453	9.528	ppbv	99
61) Styrene	13.53	104	1869541	10.552	ppbv	97
62) Isopropylbenzene	14.67	105	4699479	9.909	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.68	83	2486368	9.255	ppbv	99
64) n-propylbenzene	15.56	120	1223959	10.556	ppbv	99
65) tert-Butylbenzene	16.75	119	4075104	9.909	ppbv	100
66) Benzyl Chloride	17.00	91	308310	6.783	ppbv	100
67) sec-Butylbenzene	17.30	105	5759952	9.923	ppbv	100
69) p-Isopropyltoluene	17.66	119	4736923	10.450	ppbv	99
70) n-Butylbenzene	18.55	91	4892594	10.410	ppbv	99
71) 2-Chlorotoluene	15.46	91	3599232	10.128	ppbv	100
72) 4-Ethyltoluene	15.84	105	4015457	10.406	ppbv	99
73) 1,3,5-Trimethylbenzene	16.00	105	3600124	9.996	ppbv	98
74) 1,2,4-Trimethylbenzene	16.77	105	3748847	9.726	ppbv	99
75) 1,3-Dichlorobenzene	17.00	146	2211626	10.194	ppbv	99
76) 1,4-Dichlorobenzene	17.14	146	2126242	9.871	ppbv	99
77) 1,2-Dichlorobenzene	17.82	146	2133964	10.464	ppbv	99
78) Hexachloro-1,3-Butadiene	23.38	225	1681418	9.206	ppbv	99
79) Naphthalene	22.21	128	2592094	11.525	ppbv	99
80) Naphthalene, 2-methyl-	24.99	142	478964	10.799	ppbv	95
81) 1,2,4-Trichlorobenzene	21.93	180	1599311m	11.517	ppbv	

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

