

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL030420\
 Data File : VL034782.D
 Acq On : 4 Mar 2020 5:15
 Operator : SY/AP
 Sample : VSTDIC015
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

apatel
 3/4/2020 4:45:34 PM

Quant Time: Mar 04 06:35:05 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL030420AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Mar 04
 QLast Update : Wed Mar 04 05:54:58 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1094280	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.20	114	2246425	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.14	117	2356945	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.47	95	1959700	10.14	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.40%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.02	85	1678939	9.728	ppbv	99
3) Chlorodifluoromethane	2.96	51	1587427	13.394	ppbv	96
4) Chloromethane	3.11	50	879989	13.385	ppbv	95
5) Vinyl Chloride	3.23	62	888920	13.752	ppbv	98
6) Bromomethane	3.45	94	535871	14.173	ppbv	93
7) Chloroethane	3.54	64	325177	13.603	ppbv	93
8) Dichlorotetrafluoroethane	3.16	85	1946377	12.768	ppbv	99
9) Propene	2.98	41	658011	13.358	ppbv	99
10) Heptane	8.15	43	1844019	14.518	ppbv	98
11) Trichlorofluoromethane	3.93	101	2070741	13.691	ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.48	101	1438193	13.540	ppbv	98
13) Ethanol	3.59	45	185579	11.957	ppbv	98
14) Bromoethene	3.72	108	619770	13.912	ppbv	96
15) Acetone	3.84	43	1618757	12.964	ppbv	100
16) 1,3-Butadiene	3.30	39	817146	14.101	ppbv	98
17) tert-Butyl alcohol	4.29	59	1382467	14.441	ppbv	99
18) 1,1-Dichloroethene	4.28	96	664820	13.937	ppbv	100
19) Isopropyl Alcohol	3.96	45	1092016	14.661	ppbv	99
20) Methylene Chloride	4.33	84	588412	12.721	ppbv	97
21) Allyl Chloride	4.40	41	1178477	14.409	ppbv	99
22) trans-1,2-Dichloroethene	4.89	96	677420	14.701	ppbv	98
23) Vinyl Acetate	5.08	43	2519172	14.842	ppbv	99
24) 1,1-Dichloroethane	5.02	63	1820580	13.477	ppbv	99
25) Ethyl Acetate	5.68	43	3053977	13.811	ppbv	99
26) Hexane	5.69	57	1378145	13.561	ppbv	99
27) Carbon Disulfide	4.54	76	1747795	15.313	ppbv	99
28) Methyl tert-Butyl Ether	5.03	73	1948082	13.440	ppbv	99
29) Chloroform	5.77	83	2211487	13.648	ppbv	100
30) Cyclohexane	7.15	84	1152950	14.623	ppbv	97
31) cis-1,2-Dichloroethene	5.56	61	1452177	14.510	ppbv	99
32) 1,1,1-Trichloroethane	6.53	97	2173007	14.302	ppbv	99
34) 2-Butanone	5.25	43	2035082	14.342	ppbv	99
35) Carbon Tetrachloride	7.04	117	2250596	14.945	ppbv	100
36) Benzene	6.92	78	2705151	13.975	ppbv	99
37) 1,2-Dichloroethane	6.33	62	1850295	15.022	ppbv	100
38) Trichloroethene	7.87	130	1039688	13.909	ppbv	96
39) 1,2-Dichloropropane	7.64	63	1098812	14.303	ppbv	97
40) 1,4-Dioxane	7.86	88	372290	14.247	ppbv #	97
41) Tetrahydrofuran	6.06	42	1120969	15.077	ppbv	99
42) Bromodichloromethane	7.83	83	2431755	15.092	ppbv	99
43) Methyl Methacrylate	8.04	69	1296697	15.932	ppbv	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.90	57	4658446	13.763	ppbv	98
45) t-1,3-Dichloropropene	9.32	75	1548255	17.526	ppbv	100
46) cis-1,3-Dichloropropene	8.74	75	1750276	16.482	ppbv	98
47) 1,1,2-Trichloroethane	9.52	97	1154982	14.572	ppbv	92
48) Dibromochloromethane	10.35	129	1996033	16.126	ppbv	100
49) Bromoform	13.10	173	1781835	16.535	ppbv	99
50) 4-Methyl-2-Pentanone	8.77	43	3087030	15.338	ppbv	99
51) 2-Hexanone	10.17	43	2629186	16.583	ppbv	100
52) Tetrachloroethene	11.27	164	970002	13.601	ppbv	95
53) Toluene	9.85	91	3152705	15.293	ppbv	99
54) 1,2-Dibromoethane	10.66	107	1771845	14.967	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.18	131	1456181	14.366	ppbv #	62
57) Chlorobenzene	12.20	112	2376832	13.625	ppbv	96
58) Ethyl Benzene	12.76	91	4275302	14.918	ppbv	97
59) m/p-Xylene	13.05	91	7003474m	28.158	ppbv	
60) o-Xylene	13.75	91	3540636	14.284	ppbv	99
61) Styrene	13.58	104	2557819	16.119	ppbv	98
62) Isopropylbenzene	14.73	105	5085527	14.062	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.74	83	2587060	13.394	ppbv	100
64) n-propylbenzene	15.62	120	1371149	14.719	ppbv	95
65) tert-Butylbenzene	16.81	119	4463496	14.262	ppbv	99
66) Benzyl Chloride	17.06	91	1923175	16.946	ppbv	99
67) sec-Butylbenzene	17.36	105	6305262	13.975	ppbv	99
69) p-Isopropyltoluene	17.72	119	5292985	14.249	ppbv	98
70) n-Butylbenzene	18.61	91	5777150	14.265	ppbv	98
71) 2-Chlorotoluene	15.51	91	4092939	14.575	ppbv	99
72) 4-Ethyltoluene	15.90	105	4207772	15.218	ppbv	99
73) 1,3,5-Trimethylbenzene	16.06	105	3949096	14.822	ppbv	96
74) 1,2,4-Trimethylbenzene	16.83	105	4075810	13.839	ppbv	94
75) 1,3-Dichlorobenzene	17.07	146	2371254	13.952	ppbv	99
76) 1,4-Dichlorobenzene	17.20	146	2385828	14.066	ppbv	99
77) 1,2-Dichlorobenzene	17.89	146	2332947	14.209	ppbv	99
78) Hexachloro-1,3-Butadiene	23.45	225	1860962	13.156	ppbv	99
79) Naphthalene	22.29	128	4014915	15.468	ppbv	99
80) Naphthalene, 2-methyl-	25.03	142	1189255	14.855	ppbv	98
81) 1,2,4-Trichlorobenzene	22.01	180	2289050	14.740	ppbv	99

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

