

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL022620\
 Data File : VL034683.D
 Acq On : 26 Feb 2020 6:57
 Operator : SY/AP
 Sample : VSTDICV010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL022620

Manual Integrations
 APPROVED

MMDadoda
 2/27/2020 5:19:40 PM

Quant Time: Feb 26 07:34:00 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL022620AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Feb 26 2020
 QLast Update : Wed Feb 26 06:58:15 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1135235	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	2375956	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.12	117	2493760m	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.45	95	1983329	9.70	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.00%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.01	85	1349336	7.535	ppbv 92
3) Chlorodifluoromethane	2.95	51	1104710	9.017	ppbv 98
4) Chloromethane	3.10	50	645245	9.409	ppbv 99
5) Vinyl Chloride	3.22	62	624472	9.282	ppbv 98
6) Bromomethane	3.44	94	356963	9.056	ppbv 92
7) Chloroethane	3.52	64	225988	9.048	ppbv 93
8) Dichlorotetrafluoroethane	3.15	85	1368379	8.638	ppbv 100
9) Propene	2.97	41	508982	9.939	ppbv 99
10) Heptane	8.13	43	1322012	10.029	ppbv 100
11) Trichlorofluoromethane	3.92	101	1368424	8.724	ppbv 98
12) 1,1,2-Trichlorotrifluoroet	4.47	101	962782	8.708	ppbv 99
13) Ethanol	3.57	45	137621	8.507	ppbv 96
14) Bromoethene	3.71	108	431280	9.349	ppbv 99
15) Acetone	3.82	43	1082411	8.367	ppbv 99
16) 1,3-Butadiene	3.29	39	571942	9.551	ppbv 100
17) tert-Butyl alcohol	4.27	59	986344	9.950	ppbv 100
18) 1,1-Dichloroethene	4.27	96	449208	9.050	ppbv 95
19) Isopropyl Alcohol	3.94	45	821980	10.668	ppbv 100
20) Methylene Chloride	4.32	84	392322	8.155	ppbv 98
21) Allyl Chloride	4.39	41	808228	9.443	ppbv 99
22) trans-1,2-Dichloroethene	4.87	96	450864	9.315	ppbv 94
23) Vinyl Acetate	5.06	43	1857351	10.561	ppbv 98
24) 1,1-Dichloroethane	5.00	63	1291247	9.194	ppbv 99
25) Ethyl Acetate	5.67	43	2171959	9.485	ppbv 100
26) Hexane	5.68	57	1009543	9.565	ppbv 98
27) Carbon Disulfide	4.53	76	1170570	9.770	ppbv 100
28) Methyl tert-Butyl Ether	5.02	73	1441733	9.562	ppbv 98
29) Chloroform	5.75	83	1518785	9.032	ppbv 97
30) Cyclohexane	7.13	84	818985	10.012	ppbv 100
31) cis-1,2-Dichloroethene	5.54	61	1042633	10.038	ppbv 97
32) 1,1,1-Trichloroethane	6.51	97	1425255	9.076	ppbv 99
34) 2-Butanone	5.23	43	1486064	9.937	ppbv 99
35) Carbon Tetrachloride	7.02	117	1486074	9.339	ppbv 98
36) Benzene	6.90	78	1991695	9.706	ppbv 98
37) 1,2-Dichloroethane	6.31	62	1216367	9.403	ppbv 99
38) Trichloroethene	7.85	130	720355	9.107	ppbv 96
39) 1,2-Dichloropropane	7.62	63	797744	9.771	ppbv 96
40) 1,4-Dioxane	7.84	88	299945	10.803	ppbv 95
41) Tetrahydrofuran	6.04	42	836404	10.596	ppbv 100
42) Bromodichloromethane	7.80	83	1656984	9.784	ppbv 98
43) Methyl Methacrylate	8.02	69	875920	10.148	ppbv 99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.88	57	3408193	9.503	ppbv	100
45) t-1,3-Dichloropropene	9.30	75	1083881	11.508	ppbv	98
46) cis-1,3-Dichloropropene	8.72	75	1262564	11.177	ppbv	97
47) 1,1,2-Trichloroethane	9.50	97	812672	9.703	ppbv	96
48) Dibromochloromethane	10.33	129	1336374	10.261	ppbv	100
49) Bromoform	13.07	173	1164614	10.313	ppbv	99
50) 4-Methyl-2-Pentanone	8.75	43	2199704	10.385	ppbv	100
51) 2-Hexanone	10.15	43	1841860	11.049	ppbv	100
52) Tetrachloroethene	11.25	164	679755	9.037	ppbv	99
53) Toluene	9.83	91	2269642	10.399	ppbv	99
54) 1,2-Dibromoethane	10.64	107	1244163	9.957	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.16	131	933210	8.787	ppbv #	58
57) Chlorobenzene	12.18	112	1655794	8.983	ppbv	97
58) Ethyl Benzene	12.74	91	3026531	10.031	ppbv	99
59) m/p-Xylene	13.03	91	4906781m	18.646	ppbv	
60) o-Xylene	13.73	91	2435219	9.326	ppbv	100
61) Styrene	13.56	104	1746775	10.414	ppbv	98
62) Isopropylbenzene	14.70	105	3415534	8.966	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.72	83	1744161	8.570	ppbv	99
64) n-propylbenzene	15.60	120	902076	9.186	ppbv	95
65) tert-Butylbenzene	16.78	119	2935933	8.926	ppbv	100
66) Benzyl Chloride	17.03	91	1434115	11.688	ppbv	99
67) sec-Butylbenzene	17.33	105	4237116	8.952	ppbv	99
69) p-Isopropyltoluene	17.69	119	3462681	8.887	ppbv	100
70) n-Butylbenzene	18.59	91	3738166	8.811	ppbv	100
71) 2-Chlorotoluene	15.49	91	2695989	9.138	ppbv	100
72) 4-Ethyltoluene	15.88	105	2837920	9.764	ppbv	99
73) 1,3,5-Trimethylbenzene	16.03	105	2651149	9.482	ppbv	98
74) 1,2,4-Trimethylbenzene	16.81	105	2740782	8.876	ppbv #	90
75) 1,3-Dichlorobenzene	17.04	146	1566619	8.789	ppbv	100
76) 1,4-Dichlorobenzene	17.18	146	1569222	8.800	ppbv	99
77) 1,2-Dichlorobenzene	17.86	146	1525628	8.853	ppbv	100
78) Hexachloro-1,3-Butadiene	23.42	225	1233585	8.222	ppbv	99
79) Naphthalene	22.26	128	2700155	9.936	ppbv	99
80) Naphthalene, 2-methyl-	25.01	142	619401	7.390	ppbv	100
81) 1,2,4-Trichlorobenzene	21.99	180	1439045	8.873	ppbv	99

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

