

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL120320\
 Data File : VL036047.D
 Acq On : 3 Dec 2020 10:29
 Operator : SY/AP
 Sample : VSTDIC002
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Manual Integrations
 APPROVED

MMDadoda
 12/7/2020 12:08:11 PM

Quant Time: Dec 03 12:18:59 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL120320AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Dec 03 12:18:59 2020
 QLast Update : Thu Dec 03 12:00:21 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1241701	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	4412156	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	4270912	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.40	95	3179453	10.48	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.80%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.03	85	404420	1.730	ppbv	96
3) Chlorodifluoromethane	2.97	51	305557	2.055	ppbv	99
4) Chloromethane	3.12	50	151401	2.096	ppbv	95
5) Vinyl Chloride	3.24	62	179009	1.944	ppbv	98
6) Bromomethane	3.46	94	148638	2.007	ppbv	98
7) Chloroethane	3.54	64	69481	2.144	ppbv	94
8) Dichlorotetrafluoroethane	3.17	85	530977	1.985	ppbv	98
9) Propene	3.00	41	106635	1.959	ppbv	99
10) Heptane	8.10	43	298803	1.988	ppbv	99
11) Trichlorofluoromethane	3.93	101	603985	2.058	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.47	101	450994	2.064	ppbv	99
13) Ethanol	3.59	45	25448m	2.155	ppbv	
14) Bromoethene	3.72	108	185189	1.841	ppbv	97
15) Acetone	3.84	43	283322	2.134	ppbv #	87
16) 1,3-Butadiene	3.31	39	120657m	2.111	ppbv	
17) tert-Butyl alcohol	4.28	59	239961	1.364	ppbv	100
18) 1,1-Dichloroethene	4.27	96	198661	1.980	ppbv	96
19) Isopropyl Alcohol	3.95	45	126322m	1.548	ppbv	
20) Methylene Chloride	4.33	84	243164	2.602	ppbv	97
21) Allyl Chloride	4.39	41	135681	1.890	ppbv	98
22) trans-1,2-Dichloroethene	4.87	96	194856	1.915	ppbv	96
23) Vinyl Acetate	5.06	43	307647	1.653	ppbv	98
24) 1,1-Dichloroethane	4.99	63	356696	2.012	ppbv	100
25) Ethyl Acetate	5.66	43	544613	2.083	ppbv	99
26) Hexane	5.67	57	302851	2.100	ppbv	97
27) Carbon Disulfide	4.53	76	410398	1.899	ppbv	98
28) Methyl tert-Butyl Ether	5.02	73	439812	1.698	ppbv	100
29) Chloroform	5.73	83	537919	1.898	ppbv	98
30) Cyclohexane	7.11	84	258354	1.645	ppbv #	84
31) cis-1,2-Dichloroethene	5.53	61	258382	1.741	ppbv	96
32) 1,1,1-Trichloroethane	6.49	97	476390	1.610	ppbv	98
34) 2-Butanone	5.23	43	310787	2.170	ppbv	97
35) Carbon Tetrachloride	7.00	117	469296	1.991	ppbv	99
36) Benzene	6.87	78	651861	1.987	ppbv	98
37) 1,2-Dichloroethane	6.29	62	323269	2.175	ppbv	100
38) Trichloroethene	7.82	130	282046	1.760	ppbv	99
39) 1,2-Dichloropropane	7.60	63	241759	2.189	ppbv	95
40) 1,4-Dioxane	7.83	88	67996	1.299	ppbv #	28
41) Tetrahydrofuran	6.04	42	170179m	2.092	ppbv	
42) Bromodichloromethane	7.77	83	508392	2.028	ppbv	97
43) Methyl Methacrylate	8.00	69	234953	1.878	ppbv	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.85	57	997998	2.299	ppbv	99
45) t-1,3-Dichloropropene	9.26	75	196140	1.479	ppbv	95
46) cis-1,3-Dichloropropene	8.69	75	276879	1.648	ppbv	100
47) 1,1,2-Trichloroethane	9.46	97	294479	1.957	ppbv	96
48) Dibromochloromethane	10.29	129	414867	1.805	ppbv	100
49) Bromoform	13.02	173	301593	1.555	ppbv	100
50) 4-Methyl-2-Pentanone	8.73	43	497463	2.272	ppbv	98
51) 2-Hexanone	10.13	43	347928	1.978	ppbv #	97
52) Tetrachloroethene	11.21	164	241023	1.551	ppbv	99
53) Toluene	9.79	91	724790	1.831	ppbv	97
54) 1,2-Dibromoethane	10.59	107	422771	1.847	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.11	131	355792	1.856	ppbv #	1
57) Chlorobenzene	12.13	112	649261	1.912	ppbv	98
58) Ethyl Benzene	12.70	91	940389	1.808	ppbv	94
59) m/p-Xylene	12.98	91	1692269m	3.845	ppbv	
60) o-Xylene	13.68	91	850406	1.986	ppbv	99
61) Styrene	13.51	104	469247	1.496	ppbv	99
62) Isopropylbenzene	14.65	105	1270340	1.888	ppbv	96
63) 1,1,2,2-Tetrachloroethane	13.66	83	636919	1.920	ppbv	100
64) n-propylbenzene	15.55	120	323942	1.666	ppbv	73
65) tert-Butylbenzene	16.73	119	1113194	1.818	ppbv	99
66) Benzyl Chloride	16.98	91	226387m	1.118	ppbv	
67) sec-Butylbenzene	17.28	105	1534244	1.859	ppbv	95
69) p-Isopropyltoluene	17.64	119	1153484	1.694	ppbv	97
70) n-Butylbenzene	18.54	91	1148845	1.751	ppbv	96
71) 2-Chlorotoluene	15.44	91	874827	1.777	ppbv	97
72) 4-Ethyltoluene	15.83	105	891743	1.717	ppbv	99
73) 1,3,5-Trimethylbenzene	15.99	105	828269	1.743	ppbv	97
74) 1,2,4-Trimethylbenzene	16.75	105	936394	1.839	ppbv #	93
75) 1,3-Dichlorobenzene	16.99	146	532420	1.642	ppbv	100
76) 1,4-Dichlorobenzene	17.13	146	523668m	1.674	ppbv	
77) 1,2-Dichlorobenzene	17.81	146	480758	1.521	ppbv	99
78) Hexachloro-1,3-Butadiene	23.37	225	265052	1.798	ppbv	99
79) Naphthalene	22.19	128	360525	1.016	ppbv	99
80) Naphthalene, 2-methyl-	24.99	142	22869	0.395	ppbv	90
81) 1,2,4-Trichlorobenzene	21.92	180	277740m	1.401	ppbv	

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

