

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL031319\
 Data File : VL033305.D
 Acq On : 13 Mar 2019 22:43
 Operator : SY/AP
 Sample : VSTDIC015
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

MMDadoda
 3/15/2019 10:41:52 PM

Quant Time: Mar 13 23:56:59 2019

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL031319AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Mar 14

QLast Update : Wed Mar 13 20:55:03 2019

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	773928	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1885199	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	2229565m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	1638498	9.50	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.00%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.08	85	1500773	12.268	ppbv	99
3) Chlorodifluoromethane	3.01	51	1324319	13.227	ppbv	100
4) Chloromethane	3.17	50	715092	13.187	ppbv	98
5) Vinyl Chloride	3.29	62	708094	12.985	ppbv	100
6) Bromomethane	3.51	94	445171	13.678	ppbv	96
7) Chloroethane	3.60	64	272527	14.193	ppbv	95
8) Dichlorotetrafluoroethane	3.22	85	1679298	13.335	ppbv	98
9) Propene	3.03	41	612702	13.708	ppbv	99
10) Heptane	8.25	43	1609697	14.649	ppbv	99
11) Trichlorofluoromethane	4.00	101	1968108	13.791	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.55	101	1322889	13.725	ppbv	100
13) Ethanol	3.64	45	135390	9.566	ppbv	100
14) Bromoethene	3.79	108	592481	14.899	ppbv	99
15) Acetone	3.90	43	1286145	12.041	ppbv	99
16) 1,3-Butadiene	3.36	39	564372	12.781	ppbv	84
17) tert-Butyl alcohol	4.35	59	243860	13.045	ppbv	99
18) 1,1-Dichloroethene	4.35	96	605139	14.431	ppbv	97
19) Isopropyl Alcohol	4.02	45	826033	12.244	ppbv	100
20) Methylene Chloride	4.41	84	506875	11.863	ppbv	98
21) Allyl Chloride	4.48	41	954803	15.089	ppbv	99
22) trans-1,2-Dichloroethene	4.96	96	617242	14.460	ppbv	96
23) Vinyl Acetate	5.16	43	2307718	15.364	ppbv	99
24) 1,1-Dichloroethane	5.09	63	1545806	14.164	ppbv	99
25) Ethyl Acetate	5.77	43	2633002	13.764	ppbv	100
26) Hexane	5.78	57	1172504	13.065	ppbv	99
27) Carbon Disulfide	4.62	76	1527444	16.025	ppbv	100
28) Methyl tert-Butyl Ether	5.11	73	1890962	15.061	ppbv	99
29) Chloroform	5.85	83	1968048	14.151	ppbv	100
30) Cyclohexane	7.25	84	1038087	15.156	ppbv	98
31) cis-1,2-Dichloroethene	5.64	61	1258353	14.783	ppbv	99
32) 1,1,1-Trichloroethane	6.62	97	1939215	14.272	ppbv	99
34) 2-Butanone	5.33	43	1780701	13.852	ppbv	99
35) Carbon Tetrachloride	7.14	117	2055843	14.217	ppbv	99
36) Benzene	7.01	78	2564421	14.030	ppbv	100
37) 1,2-Dichloroethane	6.42	62	1502198	13.463	ppbv	99
38) Trichloroethene	7.96	130	953884	13.048	ppbv	97
39) 1,2-Dichloropropane	7.74	63	974745	13.845	ppbv	97
40) 1,4-Dioxane	7.95	88	328577	12.234	ppbv	70
41) Tetrahydrofuran	6.15	42	1027339	14.308	ppbv	99
42) Bromodichloromethane	7.92	83	2187659	14.153	ppbv	99
43) Methyl Methacrylate	8.14	69	1063296	14.561	ppbv	100

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 QLast Update : Wed Mar 13 20:55:03 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	4147826	13.106	ppbv	99
45) t-1,3-Dichloropropene	9.42	75	1438058	16.891	ppbv	99
46) cis-1,3-Dichloropropene	8.84	75	1619714	15.700	ppbv	97
47) 1,1,2-Trichloroethane	9.62	97	1039006	13.874	ppbv	98
48) Dibromochloromethane	10.45	129	1860067	14.715	ppbv	99
49) Bromoform	13.21	173	1801803	17.223	ppbv	99
50) 4-Methyl-2-Pentanone	8.87	43	2595647	13.801	ppbv	99
51) 2-Hexanone	10.27	43	2066894	14.448	ppbv #	100
52) Tetrachloroethene	11.38	164	920842	12.002	ppbv	95
53) Toluene	9.95	91	3006975	14.370	ppbv	100
54) 1,2-Dibromoethane	10.76	107	1664694	13.290	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.29	131	1407296	14.157	ppbv #	73
57) Chlorobenzene	12.31	112	2386812	13.356	ppbv	100
58) Ethyl Benzene	12.87	91	4570707	14.343	ppbv	99
59) m/p-Xylene	13.16	91	7519003m	28.072	ppbv	
60) o-Xylene	13.85	91	3586358	13.878	ppbv	99
61) Styrene	13.69	104	2781771	15.509	ppbv	99
62) Isopropylbenzene	14.83	105	5147645	14.265	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.84	83	2463481	13.366	ppbv	100
64) n-propylbenzene	15.72	120	1314192	14.785	ppbv	95
65) tert-Butylbenzene	16.91	119	4473732	14.764	ppbv	99
66) Benzyl Chloride	17.16	91	2479734	21.320	ppbv	99
67) sec-Butylbenzene	17.46	105	6425864	14.706	ppbv	99
69) p-Isopropyltoluene	17.82	119	5323758	15.212	ppbv	99
70) n-Butylbenzene	18.72	91	5597983	15.049	ppbv	99
71) 2-Chlorotoluene	15.62	91	3954319	14.738	ppbv	100
72) 4-Ethyltoluene	16.01	105	4237511	15.441	ppbv	99
73) 1,3,5-Trimethylbenzene	16.16	105	4064243	15.903	ppbv	96
74) 1,2,4-Trimethylbenzene	16.93	105	4066539	15.422	ppbv	94
75) 1,3-Dichlorobenzene	17.17	146	2351863	14.229	ppbv	99
76) 1,4-Dichlorobenzene	17.31	146	2394937	14.767	ppbv	99
77) 1,2-Dichlorobenzene	17.99	146	2346947	14.485	ppbv	99
78) Hexachloro-1,3-Butadiene	23.55	225	1285180	9.689	ppbv	99
79) Naphthalene	22.42	128	4471588	16.924	ppbv	99
80) Naphthalene,2-methyl-	25.12	142	2226077	31.461	ppbv	100
81) 1,2,4-Trichlorobenzene	22.14	180	2204757	15.576	ppbv	100

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

