

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL050119\
 Data File : VL033620.D
 Acq On : 1 May 2019 15:51
 Operator : SY/AP
 Sample : VSTDIC015
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

MMDadoda
 5/2/2019 4:04:17 PM

Quant Time: May 02 05:32:48 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050119AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu May 02 05:32:48 2019
 QLast Update : Thu May 02 04:03:11 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	1150630	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2836533	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	3143626	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	2426157	10.06	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.07	85	1993431	11.496	ppbv	99
3) Chlorodifluoromethane	3.01	51	1707140	11.590	ppbv	99
4) Chloromethane	3.17	50	962080	12.839	ppbv	100
5) Vinyl Chloride	3.29	62	953697	12.131	ppbv	99
6) Bromomethane	3.51	94	602575	13.024	ppbv	97
7) Chloroethane	3.60	64	350107	13.359	ppbv	98
8) Dichlorotetrafluoroethane	3.22	85	2350371	12.459	ppbv	100
9) Propene	3.03	41	759075	19.270	ppbv	85
10) Heptane	8.24	43	2206440	15.147	ppbv	99
11) Trichlorofluoromethane	4.00	101	2727291	13.232	ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.55	101	2018712	14.281	ppbv	99
13) Ethanol	3.64	45	169050	9.465	ppbv	99
14) Bromoethene	3.78	108	793452	13.675	ppbv	99
15) Acetone	3.90	43	1742729	12.441	ppbv	100
16) 1,3-Butadiene	3.36	39	866943	13.751	ppbv	100
17) tert-Butyl alcohol	4.35	59	1517034	12.543	ppbv	100
18) 1,1-Dichloroethene	4.35	96	817771	13.312	ppbv	100
19) Isopropyl Alcohol	4.02	45	1162894	12.095	ppbv	100
20) Methylene Chloride	4.41	84	748400	13.708	ppbv	96
21) Allyl Chloride	4.47	41	1313804	14.909	ppbv	98
22) trans-1,2-Dichloroethene	4.96	96	915599	15.219	ppbv	96
23) Vinyl Acetate	5.15	43	3075993	14.766	ppbv	99
24) 1,1-Dichloroethane	5.09	63	2103539	13.564	ppbv	99
25) Ethyl Acetate	5.77	43	3678448	13.836	ppbv	100
26) Hexane	5.78	57	1623468	14.501	ppbv	98
27) Carbon Disulfide	4.62	76	2243036	16.544	ppbv	99
28) Methyl tert-Butyl Ether	5.11	73	2673528	14.162	ppbv	99
29) Chloroform	5.85	83	2842966	13.856	ppbv	98
30) Cyclohexane	7.24	84	1474282	15.190	ppbv	98
31) cis-1,2-Dichloroethene	5.64	61	1710848	15.137	ppbv	99
32) 1,1,1-Trichloroethane	6.62	97	2909513	13.537	ppbv	99
34) 2-Butanone	5.32	43	2446862	14.052	ppbv	100
35) Carbon Tetrachloride	7.13	117	3158771	14.057	ppbv	99
36) Benzene	7.00	78	3494971	14.461	ppbv	98
37) 1,2-Dichloroethane	6.41	62	2186285	13.614	ppbv	100
38) Trichloroethene	7.96	130	1404948	14.511	ppbv	98
39) 1,2-Dichloropropane	7.73	63	1321613	14.501	ppbv	98
40) 1,4-Dioxane	7.95	88	496693	13.418	ppbv	# 1
41) Tetrahydrofuran	6.14	42	1422019	15.291	ppbv	100
42) Bromodichloromethane	7.91	83	3119268	14.352	ppbv	99
43) Methyl Methacrylate	8.13	69	1423000	15.548	ppbv	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	5831290	13.845	ppbv	99
45) t-1,3-Dichloropropene	9.41	75	2138730	17.599	ppbv	99
46) cis-1,3-Dichloropropene	8.83	75	2402187	17.522	ppbv	98
47) 1,1,2-Trichloroethane	9.61	97	1607422	13.523	ppbv	99
48) Dibromochloromethane	10.45	129	2973446	14.783	ppbv	99
49) Bromoform	13.20	173	2518591	16.339	ppbv	100
50) 4-Methyl-2-Pentanone	8.86	43	4160007	15.246	ppbv	99
51) 2-Hexanone	10.26	43	3495516	14.591	ppbv	99
52) Tetrachloroethene	11.37	164	1373689	14.782	ppbv	100
53) Toluene	9.95	91	4495119	14.738	ppbv	100
54) 1,2-Dibromoethane	10.76	107	2420081	14.809	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.28	131	1856230	13.522	ppbv #	69
57) Chlorobenzene	12.30	112	3242780	13.263	ppbv	98
58) Ethyl Benzene	12.86	91	5884351	16.084	ppbv	98
59) m/p-Xylene	13.15	91	9642683m	30.491	ppbv	
60) o-Xylene	13.85	91	4860409	15.292	ppbv	99
61) Styrene	13.68	104	3724157	17.123	ppbv	99
62) Isopropylbenzene	14.82	105	6545887	15.409	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.83	83	3366161	13.523	ppbv	100
64) n-propylbenzene	15.72	120	1720820	15.617	ppbv	97
65) tert-Butylbenzene	16.90	119	5981316	15.057	ppbv	99
66) Benzyl Chloride	17.15	91	3435435	19.034	ppbv	100
67) sec-Butylbenzene	17.46	105	8341419	14.952	ppbv	99
69) p-Isopropyltoluene	17.81	119	7113312	15.322	ppbv	99
70) n-Butylbenzene	18.71	91	7514856	14.881	ppbv	99
71) 2-Chlorotoluene	15.61	91	5024443	15.811	ppbv	100
72) 4-Ethyltoluene	16.00	105	5841173	16.127	ppbv	100
73) 1,3,5-Trimethylbenzene	16.16	105	5536168	15.548	ppbv	100
74) 1,2,4-Trimethylbenzene	16.92	105	5789968	14.593	ppbv	95
75) 1,3-Dichlorobenzene	17.16	146	3453146	13.982	ppbv	99
76) 1,4-Dichlorobenzene	17.31	146	3474875	14.746	ppbv	100
77) 1,2-Dichlorobenzene	17.98	146	3365388	14.619	ppbv	99
78) Hexachloro-1,3-Butadiene	23.54	225	2824273	16.098	ppbv	99
79) Naphthalene	22.41	128	6273179	17.109	ppbv	100
80) Naphthalene, 2-methyl-	25.11	142	3173558	19.948	ppbv	100
81) 1,2,4-Trichlorobenzene	22.13	180	3368909	15.860	ppbv	99

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

