

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL032519\
 Data File : VL033441.D
 Acq On : 25 Mar 2019 17:22
 Operator : SY/AP
 Sample : VSTDICV010
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL032519

Manual Integrations
 APPROVED

MMDadoda
 4/1/2019 1:22:50 AM

Quant Time: Apr 01 03:34:34 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL032519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Mar 2
 QLast Update : Tue Mar 26 16:00:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	811632	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	1876161	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	2051367m	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.58	95	1522660	9.47	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.70%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.08	85	1294341	10.934	ppbv	98
3) Chlorodifluoromethane	3.01	51	812000	8.690	ppbv	100
4) Chloromethane	3.17	50	436173	8.821	ppbv	99
5) Vinyl Chloride	3.29	62	434180	8.937	ppbv	98
6) Bromomethane	3.51	94	273746	8.768	ppbv	94
7) Chloroethane	3.60	64	162034	8.962	ppbv	92
8) Dichlorotetrafluoroethane	3.22	85	1104944	8.760	ppbv	100
9) Propene	3.04	41	352140	8.974	ppbv	98
10) Heptane	8.25	43	962167	9.173	ppbv	99
11) Trichlorofluoromethane	4.00	101	1275404	8.742	ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.55	101	877961	8.960	ppbv	100
13) Ethanol	3.65	45	88035	8.670	ppbv	62
14) Bromoethene	3.79	108	353341	9.041	ppbv	99
15) Acetone	3.90	43	773911	7.930	ppbv	99
16) 1,3-Butadiene	3.36	39	358531	9.262	ppbv	93
17) tert-Butyl alcohol	4.36	59	148338	8.267	ppbv	99
18) 1,1-Dichloroethene	4.35	96	384124	9.126	ppbv	95
19) Isopropyl Alcohol	4.02	45	511781	8.291	ppbv #	98
20) Methylene Chloride	4.41	84	339872	8.204	ppbv	95
21) Allyl Chloride	4.48	41	584332	9.472	ppbv	100
22) trans-1,2-Dichloroethene	4.97	96	409579	9.327	ppbv	92
23) Vinyl Acetate	5.16	43	1354865	9.754	ppbv	99
24) 1,1-Dichloroethane	5.09	63	947095	8.976	ppbv	99
25) Ethyl Acetate	5.77	43	1644974	9.085	ppbv	100
26) Hexane	5.78	57	734245	9.120	ppbv	99
27) Carbon Disulfide	4.62	76	964241	10.072	ppbv	99
28) Methyl tert-Butyl Ether	5.11	73	1115040	9.616	ppbv	100
29) Chloroform	5.85	83	1229335	8.908	ppbv	99
30) Cyclohexane	7.25	84	608719	9.558	ppbv	99
31) cis-1,2-Dichloroethene	5.64	61	764201	9.548	ppbv	99
32) 1,1,1-Trichloroethane	6.62	97	1206276	9.179	ppbv	100
34) 2-Butanone	5.33	43	1072949	9.519	ppbv	100
35) Carbon Tetrachloride	7.14	117	1280409	9.635	ppbv	99
36) Benzene	7.01	78	1518228	9.644	ppbv	98
37) 1,2-Dichloroethane	6.42	62	942947	8.936	ppbv	100
38) Trichloroethene	7.96	130	606871	10.243	ppbv	98
39) 1,2-Dichloropropane	7.74	63	570490	9.251	ppbv	98
40) 1,4-Dioxane	7.95	88	201949m	9.182	ppbv	
41) Tetrahydrofuran	6.15	42	612716	9.883	ppbv	99
42) Bromodichloromethane	7.92	83	1367292	9.514	ppbv	99
43) Methyl Methacrylate	8.14	69	626365	9.799	ppbv	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	2566155	9.328	ppbv	100
45) t-1,3-Dichloropropene	9.42	75	854690	10.890	ppbv	97
46) cis-1,3-Dichloropropene	8.84	75	960506	10.480	ppbv	96
47) 1,1,2-Trichloroethane	9.62	97	643795	9.194	ppbv	96
48) Dibromochloromethane	10.45	129	1167796	9.887	ppbv	100
49) Bromoform	13.21	173	1053918	9.340	ppbv	100
50) 4-Methyl-2-Pentanone	8.87	43	1593726	9.656	ppbv	100
51) 2-Hexanone	10.27	43	1257272	10.212	ppbv #	100
52) Tetrachloroethene	11.37	164	590013	9.934	ppbv	95
53) Toluene	9.95	91	1831043	10.009	ppbv	100
54) 1,2-Dibromoethane	10.76	107	1043472	9.527	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.28	131	835001m	8.881	ppbv	
57) Chlorobenzene	12.31	112	1410421	8.855	ppbv	97
58) Ethyl Benzene	12.87	91	2600338	9.492	ppbv	99
59) m/p-Xylene	13.16	91	4315091m	17.635	ppbv	
60) o-Xylene	13.86	91	2175517	9.194	ppbv	100
61) Styrene	13.69	104	1607469	9.899	ppbv	100
62) Isopropylbenzene	14.83	105	2978891	8.890	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.84	83	1522369	8.738	ppbv	100
64) n-propylbenzene	15.73	120	752241	8.848	ppbv	99
65) tert-Butylbenzene	16.91	119	2689729	9.110	ppbv	100
66) Benzyl Chloride	17.16	91	1481230	10.789	ppbv	100
67) sec-Butylbenzene	17.46	105	3774711	8.990	ppbv	100
69) p-Isopropyltoluene	17.82	119	3146794	9.204	ppbv	100
70) n-Butylbenzene	18.72	91	3330384	9.194	ppbv	100
71) 2-Chlorotoluene	15.62	91	2291336	8.993	ppbv	99
72) 4-Ethyltoluene	16.00	105	2469097	9.283	ppbv	99
73) 1,3,5-Trimethylbenzene	16.16	105	2362490	9.282	ppbv	99
74) 1,2,4-Trimethylbenzene	16.93	105	2466186	9.040	ppbv	97
75) 1,3-Dichlorobenzene	17.17	146	1454202	8.624	ppbv	99
76) 1,4-Dichlorobenzene	17.31	146	1443601	8.787	ppbv	100
77) 1,2-Dichlorobenzene	17.99	146	1420921	8.882	ppbv	100
78) Hexachloro-1,3-Butadiene	23.55	225	1063899	10.046	ppbv	99
79) Naphthalene	22.42	128	2420628	10.365	ppbv	99
80) Naphthalene,2-methyl-	25.12	142	1037611	13.239	ppbv	98
81) 1,2,4-Trichlorobenzene	22.14	180	1231647	9.508	ppbv	99

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

