

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL040419\
 Data File : VL033533.D
 Acq On : 4 Apr 2019 14:48
 Operator : SY/AP
 Sample : VL0404ABS01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0404ABS01

Manual Integrations
 APPROVED

MMDadoda
 4/8/2019 3:22:13 AM

Quant Time: Apr 05 02:19:44 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	5.76	49	1134537	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2694618	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2926021m	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.58	95	2215697	9.66	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.60%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.07	85	1784929	10.787	ppbv 96
3) Chlorodifluoromethane	3.01	51	1040441	7.966	ppbv 100
4) Chloromethane	3.17	50	562756	8.142	ppbv 97
5) Vinyl Chloride	3.29	62	558460	8.224	ppbv 96
6) Bromomethane	3.51	94	368146	8.436	ppbv 94
7) Chloroethane	3.60	64	209169	8.276	ppbv 100
8) Dichlorotetrafluoroethane	3.22	85	1439246	8.163	ppbv 99
9) Propene	3.03	41	451173	8.225	ppbv 100
10) Heptane	8.25	43	1179619	8.045	ppbv 99
11) Trichlorofluoromethane	4.00	101	1672526	8.202	ppbv 98
12) 1,1,2-Trichlorotrifluoroet	4.55	101	1134563	8.283	ppbv 100
13) Ethanol	3.65	45	136007	9.582	ppbv 64
14) Bromoethene	3.79	108	464724	8.507	ppbv 99
15) Acetone	3.90	43	1048009	7.682	ppbv 98
16) 1,3-Butadiene	3.36	39	474837	8.776	ppbv 92
17) tert-Butyl alcohol	4.35	59	214702	8.560	ppbv 100
18) 1,1-Dichloroethene	4.35	96	499809	8.495	ppbv 99
19) Isopropyl Alcohol	4.02	45	760121	8.809	ppbv 99
20) Methylene Chloride	4.41	84	434881	7.510	ppbv 97
21) Allyl Chloride	4.47	41	750539	8.703	ppbv 99
22) trans-1,2-Dichloroethene	4.96	96	514317	8.379	ppbv 97
23) Vinyl Acetate	5.16	43	1703983	8.776	ppbv 99
24) 1,1-Dichloroethane	5.09	63	1187309	8.050	ppbv 100
25) Ethyl Acetate	5.77	43	1976149	7.808	ppbv 100
26) Hexane	5.78	57	887919	7.890	ppbv 98
27) Carbon Disulfide	4.62	76	1239543	9.262	ppbv 100
28) Methyl tert-Butyl Ether	5.11	73	1427751	8.808	ppbv 100
29) Chloroform	5.85	83	1512407	7.840	ppbv 99
30) Cyclohexane	7.25	84	759896	8.535	ppbv 99
31) cis-1,2-Dichloroethene	5.64	61	948138	8.474	ppbv 98
32) 1,1,1-Trichloroethane	6.62	97	1581075	8.607	ppbv 99
34) 2-Butanone	5.33	43	1344026	8.302	ppbv 100
35) Carbon Tetrachloride	7.13	117	1675274	8.778	ppbv 99
36) Benzene	7.00	78	1845910	8.164	ppbv 99
37) 1,2-Dichloroethane	6.41	62	1184727	7.818	ppbv 100
38) Trichloroethene	7.96	130	745035	8.756	ppbv 99
39) 1,2-Dichloropropane	7.74	63	695011	7.847	ppbv 97
40) 1,4-Dioxane	7.95	88	290178	9.186	ppbv 79
41) Tetrahydrofuran	6.15	42	732296	8.224	ppbv 98
42) Bromodichloromethane	7.92	83	1680518	8.142	ppbv 99
43) Methyl Methacrylate	8.13	69	769098	8.377	ppbv 100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	3166024	8.013	ppbv	100
45) t-1,3-Dichloropropene	9.41	75	1095610	9.720	ppbv	100
46) cis-1,3-Dichloropropene	8.84	75	1189247	9.035	ppbv	96
47) 1,1,2-Trichloroethane	9.61	97	799233	7.947	ppbv	97
48) Dibromochloromethane	10.45	129	1488881	8.777	ppbv	99
49) Bromoform	13.20	173	1375170	8.486	ppbv	100
50) 4-Methyl-2-Pentanone	8.87	43	1960032	8.268	ppbv	99
51) 2-Hexanone	10.27	43	1555108	8.794	ppbv #	99
52) Tetrachloroethene	11.37	164	736662	8.635	ppbv	97
53) Toluene	9.95	91	2259520	8.600	ppbv	99
54) 1,2-Dibromoethane	10.76	107	1294766	8.231	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.28	131	1044959	7.792	ppbv #	55
57) Chlorobenzene	12.30	112	1753274	7.717	ppbv	95
58) Ethyl Benzene	12.86	91	3211780	8.220	ppbv	99
59) m/p-Xylene	13.15	91	5497988m	15.753	ppbv	
60) o-Xylene	13.85	91	2722764	8.067	ppbv	100
61) Styrene	13.69	104	2005904	8.660	ppbv	99
62) Isopropylbenzene	14.82	105	3750912	7.848	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.83	83	1874124	7.541	ppbv	100
64) n-propylbenzene	15.72	120	976887	8.055	ppbv	98
65) tert-Butylbenzene	16.91	119	3423528	8.129	ppbv	99
66) Benzyl Chloride	17.15	91	1964967	10.034	ppbv	99
67) sec-Butylbenzene	17.46	105	4828419	8.062	ppbv	100
69) p-Isopropyltoluene	17.81	119	4034147	8.273	ppbv	100
70) n-Butylbenzene	18.71	91	4284361	8.292	ppbv	99
71) 2-Chlorotoluene	15.61	91	2896479	7.970	ppbv	99
72) 4-Ethyltoluene	16.00	105	3126495	8.241	ppbv	99
73) 1,3,5-Trimethylbenzene	16.15	105	3008698	8.287	ppbv	99
74) 1,2,4-Trimethylbenzene	16.93	105	3156986	8.113	ppbv	96
75) 1,3-Dichlorobenzene	17.16	146	1870044	7.775	ppbv	99
76) 1,4-Dichlorobenzene	17.31	146	1867256	7.968	ppbv	100
77) 1,2-Dichlorobenzene	17.99	146	1835131	8.042	ppbv	99
78) Hexachloro-1,3-Butadiene	23.54	225	1398860	9.261	ppbv	99
79) Naphthalene	22.41	128	3052212	9.163	ppbv	98
80) Naphthalene, 2-methyl-	25.11	142	1239364	11.087	ppbv	98
81) 1,2,4-Trichlorobenzene	22.14	180	1584629	8.576	ppbv	100

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

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