

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL011619\
 Data File : VL033089.D
 Acq On : 16 Jan 2019 11:49
 Operator : SY/AP
 Sample : VL0116ABS01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0116ABS01

Manual Integrations
 APPROVED

MMDadoda
 1/17/2019 3:15:58 PM

Quant Time: Jan 17 02:55:46 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL010419AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jan 0
 QLast Update : Fri Jan 04 16:09:05 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	1133811	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2871681	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2847945m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	2103598	9.64	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.40%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.08	85	2273202	10.773	ppbv 99
3) Chlorodifluoromethane	3.01	51	1239959	9.661	ppbv 98
4) Chloromethane	3.17	50	671710	9.138	ppbv 97
5) Vinyl Chloride	3.29	62	682392	9.192	ppbv 100
6) Bromomethane	3.52	94	450593	8.934	ppbv 99
7) Chloroethane	3.60	64	264067	9.096	ppbv 99
8) Dichlorotetrafluoroethane	3.22	85	1789949	9.848	ppbv 99
9) Propene	3.04	41	485176	10.119	ppbv 100
10) Heptane	8.25	43	1351817	9.903	ppbv 100
11) Trichlorofluoromethane	4.01	101	1970736	8.452	ppbv 99
12) 1,1,2-Trichlorotrifluoroet	4.55	101	1333696	9.046	ppbv 99
13) Ethanol	3.65	45	144363	7.550	ppbv 100
14) Bromoethene	3.79	108	585080	8.985	ppbv 100
15) Acetone	3.90	43	1252204	7.979	ppbv 100
16) 1,3-Butadiene	3.36	39	570793	9.645	ppbv 100
17) tert-Butyl alcohol	4.36	59	291426	8.766	ppbv 99
18) 1,1-Dichloroethene	4.35	96	607872	8.951	ppbv 96
19) Isopropyl Alcohol	4.02	45	869203	8.046	ppbv 100
20) Methylene Chloride	4.41	84	523816	8.007	ppbv 96
21) Allyl Chloride	4.48	41	945824	9.726	ppbv 99
22) trans-1,2-Dichloroethene	4.96	96	609161	9.049	ppbv 97
23) Vinyl Acetate	5.16	43	2002792	10.032	ppbv 99
24) 1,1-Dichloroethane	5.09	63	1502094	8.861	ppbv 99
25) Ethyl Acetate	5.77	43	2385875	8.994	ppbv 100
26) Hexane	5.78	57	1117131	8.944	ppbv 100
27) Carbon Disulfide	4.62	76	1538702	9.989	ppbv 100
28) Methyl tert-Butyl Ether	5.11	73	1860081	9.541	ppbv 100
29) Chloroform	5.85	83	1879119	8.828	ppbv 98
30) Cyclohexane	7.25	84	966202	10.374	ppbv 99
31) cis-1,2-Dichloroethene	5.64	61	1161709	10.016	ppbv 100
32) 1,1,1-Trichloroethane	6.62	97	2006453	9.288	ppbv 99
34) 2-Butanone	5.33	43	1509564	9.047	ppbv 99
35) Carbon Tetrachloride	7.14	117	2178268	8.831	ppbv 98
36) Benzene	7.01	78	2183610	9.283	ppbv 98
37) 1,2-Dichloroethane	6.42	62	1479632	9.009	ppbv 99
38) Trichloroethene	7.96	130	950913	9.826	ppbv 99
39) 1,2-Dichloropropane	7.74	63	810096	9.167	ppbv 97
40) 1,4-Dioxane	7.96	88	302703	9.024	ppbv # 1
41) Tetrahydrofuran	6.15	42	831583	9.792	ppbv 99
42) Bromodichloromethane	7.92	83	2021277	8.959	ppbv 98
43) Methyl Methacrylate	8.14	69	894571	10.135	ppbv 98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	3747457	9.407	ppbv	100
45) t-1,3-Dichloropropene	9.42	75	1246102	11.341	ppbv	99
46) cis-1,3-Dichloropropene	8.84	75	1410553	11.248	ppbv	96
47) 1,1,2-Trichloroethane	9.62	97	967073	9.367	ppbv	97
48) Dibromochloromethane	10.45	129	1840755	10.091	ppbv	99
49) Bromoform	13.20	173	1588876	9.969	ppbv	99
50) 4-Methyl-2-Pentanone	8.87	43	2148358	10.161	ppbv	99
51) 2-Hexanone	10.27	43	1673179	10.937	ppbv	99
52) Tetrachloroethene	11.38	164	857683	10.315	ppbv	97
53) Toluene	9.95	91	2681858	10.638	ppbv	99
54) 1,2-Dibromoethane	10.76	107	1541811	10.365	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.28	131	1316628	8.947	ppbv	99
57) Chlorobenzene	12.31	112	2123078	8.931	ppbv	97
58) Ethyl Benzene	12.87	91	3691410	10.266	ppbv	99
59) m/p-Xylene	13.16	91	6264835m	18.834	ppbv	
60) o-Xylene	13.85	91	3064963	9.412	ppbv	100
61) Styrene	13.69	104	2250847	10.833	ppbv	100
62) Isopropylbenzene	14.83	105	4305333	9.290	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.84	83	2105336	8.703	ppbv	99
64) n-propylbenzene	15.73	120	1106634	9.400	ppbv	98
65) tert-Butylbenzene	16.91	119	3810278	9.282	ppbv	100
66) Benzyl Chloride	17.16	91	2345984	10.027	ppbv	99
67) sec-Butylbenzene	17.46	105	5326522	9.067	ppbv	100
69) p-Isopropyltoluene	17.82	119	4406712	9.242	ppbv	100
70) n-Butylbenzene	18.72	91	4390911	9.161	ppbv	100
71) 2-Chlorotoluene	15.62	91	3181636	9.681	ppbv	99
72) 4-Ethyltoluene	16.00	105	3515557	9.824	ppbv	100
73) 1,3,5-Trimethylbenzene	16.16	105	3341387	9.463	ppbv	100
74) 1,2,4-Trimethylbenzene	16.93	105	3484927	8.912	ppbv	96
75) 1,3-Dichlorobenzene	17.17	146	1926726	8.370	ppbv	99
76) 1,4-Dichlorobenzene	17.31	146	1868557	8.911	ppbv	99
77) 1,2-Dichlorobenzene	17.99	146	1823433	8.796	ppbv	99
78) Hexachloro-1,3-Butadiene	23.54	225	1123622	7.057	ppbv	99
79) Naphthalene	22.42	128	3276600	9.948	ppbv	98
80) Naphthalene, 2-methyl-	25.12	142	1162008	11.625	ppbv	99
81) 1,2,4-Trichlorobenzene	22.14	180	1545345	9.711	ppbv	99

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

