

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032119\
 Data File : VL033423.D
 Acq On : 21 Mar 2019 19:56
 Operator : SY/AP
 Sample : VL0321ABS01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0321ABS01

Manual Integrations
 APPROVED

MMDadoda
 3/25/2019 8:28:11 AM

Quant Time: Mar 22 09:15:26 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL031519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Mar 1
 QLast Update : Fri Mar 15 14:52:14 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	751774	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	1793741	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	2250217m	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.58	95	1615468	9.69	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	1578626	11.941	ppbv	100
3) Chlorodifluoromethane	3.02	51	935655	10.843	ppbv	98
4) Chloromethane	3.17	50	485421	10.389	ppbv	96
5) Vinyl Chloride	3.29	62	482793	10.016	ppbv	96
6) Bromomethane	3.52	94	310074	10.822	ppbv	95
7) Chloroethane	3.60	64	177330	10.528	ppbv	98
8) Dichlorotetrafluoroethane	3.22	85	1228973	10.919	ppbv	100
9) Propene	3.04	41	393722	10.222	ppbv	100
10) Heptane	8.25	43	1055046	11.043	ppbv	100
11) Trichlorofluoromethane	4.00	101	1410962	10.718	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.55	101	966576	11.066	ppbv	99
13) Ethanol	3.65	45	100947	5.497	ppbv	98
14) Bromoethene	3.79	108	392666	10.786	ppbv	99
15) Acetone	3.90	43	879680	7.528	ppbv	100
16) 1,3-Butadiene	3.36	39	426505	11.237	ppbv	94
17) tert-Butyl alcohol	4.36	59	184939	11.245	ppbv	98
18) 1,1-Dichloroethene	4.35	96	425085	10.644	ppbv	99
19) Isopropyl Alcohol	4.02	45	666780	11.995	ppbv	100
20) Methylene Chloride	4.41	84	353602	9.278	ppbv	98
21) Allyl Chloride	4.48	41	648840	11.446	ppbv	99
22) trans-1,2-Dichloroethene	4.97	96	442307	11.428	ppbv	98
23) Vinyl Acetate	5.16	43	1462134	10.813	ppbv	99
24) 1,1-Dichloroethane	5.09	63	1034617	10.595	ppbv	99
25) Ethyl Acetate	5.77	43	1745215	10.273	ppbv	100
26) Hexane	5.78	57	773408	10.184	ppbv	99
27) Carbon Disulfide	4.62	76	1050714	12.018	ppbv	100
28) Methyl tert-Butyl Ether	5.11	73	1227764	10.884	ppbv	99
29) Chloroform	5.85	83	1329646	10.693	ppbv	99
30) Cyclohexane	7.25	84	673070	11.054	ppbv	97
31) cis-1,2-Dichloroethene	5.64	61	826525	10.885	ppbv	99
32) 1,1,1-Trichloroethane	6.62	97	1322015	10.828	ppbv	99
34) 2-Butanone	5.33	43	1158665	9.836	ppbv	98
35) Carbon Tetrachloride	7.14	117	1414800	11.188	ppbv	100
36) Benzene	7.01	78	1632954	10.172	ppbv	98
37) 1,2-Dichloroethane	6.42	62	1041699	10.263	ppbv	99
38) Trichloroethene	7.97	130	648974	10.683	ppbv	98
39) 1,2-Dichloropropane	7.74	63	618086	10.281	ppbv	98
40) 1,4-Dioxane	7.96	88	259487	12.258	ppbv	66
41) Tetrahydrofuran	6.15	42	637094	10.134	ppbv	99
42) Bromodichloromethane	7.92	83	1485663	10.917	ppbv	99
43) Methyl Methacrylate	8.14	69	678201	10.850	ppbv	99

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44) 2,2,4-Trimethylpentane	7.99	57	2807164	10.558	ppbv	100
45) t-1,3-Dichloropropene	9.42	75	916464	11.876	ppbv	99
46) cis-1,3-Dichloropropene	8.84	75	1019972	11.225	ppbv	98
47) 1,1,2-Trichloroethane	9.62	97	693891	10.447	ppbv	96
48) Dibromochloromethane	10.45	129	1463998	13.142	ppbv	100
49) Bromoform	13.21	173	1295645	12.261	ppbv	100
50) 4-Methyl-2-Pentanone	8.87	43	1696554	10.196	ppbv	100
51) 2-Hexanone	10.27	43	1539439	11.992	ppbv #	100
52) Tetrachloroethene	11.38	164	719893	10.764	ppbv	99
53) Toluene	9.95	91	2254374	12.359	ppbv	99
54) 1,2-Dibromoethane	10.76	107	1282815	11.425	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.28	131	1030198	10.234	ppbv	96
57) Chlorobenzene	12.30	112	1699627	9.537	ppbv	98
58) Ethyl Benzene	12.87	91	3196228	10.041	ppbv	98
59) m/p-Xylene	13.13	91	5417176m	19.802	ppbv	
60) o-Xylene	13.85	91	2638865	9.888	ppbv	100
61) Styrene	13.69	104	1929000	10.323	ppbv	99
62) Isopropylbenzene	14.83	105	3672122	9.897	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.84	83	1815881	9.412	ppbv	100
64) n-propylbenzene	15.73	120	942703	10.041	ppbv	98
65) tert-Butylbenzene	16.91	119	3280851	9.822	ppbv	100
66) Benzyl Chloride	17.16	91	1634071	11.838	ppbv	100
67) sec-Butylbenzene	17.46	105	4664291	9.854	ppbv	100
69) p-Isopropyltoluene	17.82	119	3835695	9.919	ppbv	99
70) n-Butylbenzene	18.71	91	4013747	9.734	ppbv	100
71) 2-Chlorotoluene	15.62	91	2823542	9.776	ppbv	100
72) 4-Ethyltoluene	16.00	105	3026025	9.984	ppbv	99
73) 1,3,5-Trimethylbenzene	16.16	105	2921413	9.895	ppbv	98
74) 1,2,4-Trimethylbenzene	16.93	105	3005076	9.610	ppbv	96
75) 1,3-Dichlorobenzene	17.17	146	1710338	9.280	ppbv	100
76) 1,4-Dichlorobenzene	17.31	146	1709505	9.580	ppbv	100
77) 1,2-Dichlorobenzene	17.99	146	1658151	9.500	ppbv	100
78) Hexachloro-1,3-Butadiene	23.55	225	944113	9.022	ppbv	100
79) Naphthalene	22.42	128	2597979	8.622	ppbv	99
80) Naphthalene, 2-methyl-	25.11	142	841476	5.889	ppbv	99
81) 1,2,4-Trichlorobenzene	22.14	180	1351036	8.792	ppbv	99

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

