

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL101619\
 Data File : VL034307.D
 Acq On : 16 Oct 2019 20:46
 Operator : SY/AP
 Sample : VL1016ABS01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1016ABS01

Manual Integrations
 APPROVED

MMDadoda
 10/18/2019 3:04:31 PM

Quant Time: Oct 17 05:56:50 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL101619AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Oct 17 05:56:50 2019
 QLast Update : Thu Oct 17 05:12:37 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.71	49	1149839	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.24	114	2247301	10.00	ppbv	0.02
55) Chlorobenzene-d5	12.18	117	2551925	10.00	ppbv	0.03

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.52	95	2010490	9.30	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	1700934	8.581	ppbv	100
3) Chlorodifluoromethane	2.98	51	1281888	9.512	ppbv	99
4) Chloromethane	3.13	50	764477	9.590	ppbv	91
5) Vinyl Chloride	3.25	62	705500	9.281	ppbv	98
6) Bromomethane	3.47	94	360632	9.689	ppbv	98
7) Chloroethane	3.56	64	259800	9.711	ppbv	97
8) Dichlorotetrafluoroethane	3.18	85	1609870	9.372	ppbv	99
9) Propene	3.00	41	575504	9.633	ppbv	96
10) Heptane	8.19	43	1573323	10.260	ppbv	99
11) Trichlorofluoromethane	3.96	101	1780576	9.461	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.50	101	1202894	9.756	ppbv	98
13) Ethanol	3.61	45	125537	9.385	ppbv	96
14) Bromoethene	3.75	108	490996	10.114	ppbv	98
15) Acetone	3.86	43	1344434	8.175	ppbv	100
16) 1,3-Butadiene	3.32	39	679310	10.165	ppbv	100
17) tert-Butyl alcohol	4.31	59	1204169	11.472	ppbv	100
18) 1,1-Dichloroethene	4.30	96	529434	9.807	ppbv	99
19) Isopropyl Alcohol	3.98	45	1014669	11.059	ppbv	99
20) Methylene Chloride	4.36	84	478009	8.040	ppbv	98
21) Allyl Chloride	4.43	41	936931	10.305	ppbv	99
22) trans-1,2-Dichloroethene	4.91	96	534635	9.929	ppbv	93
23) Vinyl Acetate	5.11	43	2097012	10.210	ppbv #	98
24) 1,1-Dichloroethane	5.04	63	1471250	9.652	ppbv	100
25) Ethyl Acetate	5.72	43	2645760	9.529	ppbv	100
26) Hexane	5.73	57	1133396	9.577	ppbv	99
27) Carbon Disulfide	4.57	76	1389075	11.306	ppbv	97
28) Methyl tert-Butyl Ether	5.06	73	1837517	10.259	ppbv	99
29) Chloroform	5.80	83	1811984	9.679	ppbv	97
30) Cyclohexane	7.19	84	900172	10.342	ppbv	98
31) cis-1,2-Dichloroethene	5.59	61	1211695	10.088	ppbv	96
32) 1,1,1-Trichloroethane	6.56	97	1788448	9.824	ppbv	99
34) 2-Butanone	5.28	43	1808541	9.846	ppbv	100
35) Carbon Tetrachloride	7.08	117	1905880	9.737	ppbv	97
36) Benzene	6.95	78	2129978	9.878	ppbv	99
37) 1,2-Dichloroethane	6.36	62	1581315	9.840	ppbv	99
38) Trichloroethene	7.91	130	825364	9.539	ppbv	95
39) 1,2-Dichloropropane	7.68	63	900445	9.698	ppbv	98
40) 1,4-Dioxane	7.89	88	327521	10.038	ppbv #	1
41) Tetrahydrofuran	6.09	42	1029874	10.102	ppbv	98
42) Bromodichloromethane	7.86	83	1990603	10.113	ppbv	98
43) Methyl Methacrylate	8.08	69	932588	10.457	ppbv	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.93	57	3854984	9.659	ppbv	99
45) t-1,3-Dichloropropene	9.36	75	1271336	11.701	ppbv	98
46) cis-1,3-Dichloropropene	8.78	75	1417880	11.359	ppbv	98
47) 1,1,2-Trichloroethane	9.56	97	906011	9.634	ppbv	97
48) Dibromochloromethane	10.39	129	1664967	10.792	ppbv	99
49) Bromoform	13.14	173	1503736	11.000	ppbv	99
50) 4-Methyl-2-Pentanone	8.81	43	2686325	10.215	ppbv	100
51) 2-Hexanone	10.21	43	2294508	10.644	ppbv #	99
52) Tetrachloroethene	11.31	164	795050	9.407	ppbv	97
53) Toluene	9.89	91	2444609	10.273	ppbv	100
54) 1,2-Dibromoethane	10.70	107	1417387	10.169	ppbv	96
56) 1,1,1,2-Tetrachloroethane	12.22	131	1088815	9.258	ppbv	96
57) Chlorobenzene	12.24	112	1890223	8.879	ppbv	97
58) Ethyl Benzene	12.80	91	3409006	9.556	ppbv	96
59) m/p-Xylene	13.09	91	5662931m	18.322	ppbv	
60) o-Xylene	13.79	91	2850286	9.261	ppbv	100
61) Styrene	13.63	104	2168250	10.007	ppbv	99
62) Isopropylbenzene	14.77	105	3713279	9.140	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.78	83	2037723	8.239	ppbv	99
64) n-propylbenzene	15.66	120	995634	9.549	ppbv	96
65) tert-Butylbenzene	16.85	119	3328648	9.244	ppbv	100
66) Benzyl Chloride	17.09	91	1698353	11.942	ppbv	99
67) sec-Butylbenzene	17.40	105	4618107	9.113	ppbv	100
69) p-Isopropyltoluene	17.76	119	3885217	9.404	ppbv	99
70) n-Butylbenzene	18.65	91	4122290	9.171	ppbv	99
71) 2-Chlorotoluene	15.56	91	2979894	9.459	ppbv	99
72) 4-Ethyltoluene	15.94	105	3336099	9.643	ppbv	99
73) 1,3,5-Trimethylbenzene	16.10	105	3197549	9.328	ppbv	97
74) 1,2,4-Trimethylbenzene	16.87	105	3314545	9.272	ppbv	96
75) 1,3-Dichlorobenzene	17.10	146	1896986	8.839	ppbv	99
76) 1,4-Dichlorobenzene	17.25	146	1910267	9.112	ppbv	99
77) 1,2-Dichlorobenzene	17.92	146	1897616	9.018	ppbv	99
78) Hexachloro-1,3-Butadiene	23.48	225	1353293	7.775	ppbv	100
79) Naphthalene	22.34	128	2826779	10.825	ppbv	99
80) Naphthalene, 2-methyl-	25.07	142	960506	12.725	ppbv	98
81) 1,2,4-Trichlorobenzene	22.06	180	1729992	10.143	ppbv	99

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

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