

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032719\
 Data File : VL033466.D
 Acq On : 27 Mar 2019 13:29
 Operator : SY/AP
 Sample : VL0327ABS01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0327ABS01

Manual Integrations
 APPROVED

MMDadoda
 4/1/2019 1:25:44 AM

Quant Time: Mar 28 07:49:02 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Mar 28 07:49:02 2019
 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	803000	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1890747	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2144259	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	1597286	9.50	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.07	85	1107988	9.461	ppbv	98
3) Chlorodifluoromethane	3.01	51	887512	9.600	ppbv	100
4) Chloromethane	3.17	50	478575	9.783	ppbv	97
5) Vinyl Chloride	3.29	62	475677	9.897	ppbv	99
6) Bromomethane	3.51	94	307133	9.943	ppbv	93
7) Chloroethane	3.60	64	178999	10.006	ppbv	94
8) Dichlorotetrafluoroethane	3.22	85	1213049	9.721	ppbv	100
9) Propene	3.03	41	373479	9.620	ppbv	98
10) Heptane	8.25	43	1100897	10.608	ppbv	99
11) Trichlorofluoromethane	4.00	101	1385283	9.598	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.55	101	962003	9.923	ppbv	99
13) Ethanol	3.65	45	115595	11.506	ppbv	65
14) Bromoethene	3.78	108	392222	10.144	ppbv	99
15) Acetone	3.90	43	861278	8.920	ppbv	100
16) 1,3-Butadiene	3.36	39	399384	10.429	ppbv	90
17) tert-Butyl alcohol	4.35	59	190774	10.746	ppbv	98
18) 1,1-Dichloroethene	4.35	96	418086	10.040	ppbv	97
19) Isopropyl Alcohol	4.02	45	673851	11.034	ppbv	99
20) Methylene Chloride	4.41	84	364796	8.901	ppbv	94
21) Allyl Chloride	4.48	41	620655	10.169	ppbv	99
22) trans-1,2-Dichloroethene	4.96	96	431700	9.936	ppbv	96
23) Vinyl Acetate	5.15	43	1408909	10.252	ppbv	99
24) 1,1-Dichloroethane	5.09	63	998256	9.563	ppbv	99
25) Ethyl Acetate	5.76	43	1745883	9.746	ppbv	100
26) Hexane	5.78	57	776762	9.752	ppbv	99
27) Carbon Disulfide	4.62	76	1044552	11.028	ppbv	100
28) Methyl tert-Butyl Ether	5.11	73	1152887	10.049	ppbv	100
29) Chloroform	5.85	83	1311276	9.604	ppbv	100
30) Cyclohexane	7.24	84	663560	10.531	ppbv	99
31) cis-1,2-Dichloroethene	5.64	61	802918	10.139	ppbv	99
32) 1,1,1-Trichloroethane	6.62	97	1318412	10.140	ppbv	99
34) 2-Butanone	5.33	43	1124606	9.900	ppbv	100
35) Carbon Tetrachloride	7.13	117	1421449	10.614	ppbv	99
36) Benzene	7.00	78	1625803	10.248	ppbv	98
37) 1,2-Dichloroethane	6.41	62	1023262	9.623	ppbv	99
38) Trichloroethene	7.96	130	689000	11.540	ppbv	99
39) 1,2-Dichloropropane	7.73	63	645916	10.393	ppbv	98
40) 1,4-Dioxane	7.95	88	264134	11.916	ppbv	81
41) Tetrahydrofuran	6.14	42	631341	10.104	ppbv	98
42) Bromodichloromethane	7.91	83	1551575	10.713	ppbv	100
43) Methyl Methacrylate	8.13	69	708309	10.996	ppbv	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	2910887	10.500	ppbv	100
45) t-1,3-Dichloropropene	9.41	75	958735	12.122	ppbv	96
46) cis-1,3-Dichloropropene	8.83	75	1083034	11.726	ppbv	98
47) 1,1,2-Trichloroethane	9.61	97	718734	10.185	ppbv	99
48) Dibromochloromethane	10.45	129	1347377	11.320	ppbv	100
49) Bromoform	13.20	173	1226179	10.783	ppbv	100
50) 4-Methyl-2-Pentanone	8.87	43	1789458	10.758	ppbv	100
51) 2-Hexanone	10.27	43	1412713	11.386	ppbv	99
52) Tetrachloroethene	11.37	164	663079	11.078	ppbv	96
53) Toluene	9.94	91	2071723	11.238	ppbv	100
54) 1,2-Dibromoethane	10.76	107	1180373	10.694	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.28	131	950813	9.675	ppbv	95
57) Chlorobenzene	12.30	112	1600048	9.610	ppbv	99
58) Ethyl Benzene	12.86	91	2944287	10.282	ppbv	98
59) m/p-Xylene	13.12	91	4933452m	19.289	ppbv	
60) o-Xylene	13.85	91	2450412	9.908	ppbv	100
61) Styrene	13.68	104	1807543	10.648	ppbv	100
62) Isopropylbenzene	14.82	105	3421775	9.770	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.83	83	1696854	9.318	ppbv	99
64) n-propylbenzene	15.72	120	892391	10.041	ppbv	98
65) tert-Butylbenzene	16.91	119	3100456	10.046	ppbv	100
66) Benzyl Chloride	17.16	91	1726541	12.030	ppbv	100
67) sec-Butylbenzene	17.46	105	4416207	10.062	ppbv	100
69) p-Isopropyltoluene	17.81	119	3692587	10.333	ppbv	100
70) n-Butylbenzene	18.71	91	3902234	10.306	ppbv	100
71) 2-Chlorotoluene	15.61	91	2690377	10.102	ppbv	100
72) 4-Ethyltoluene	16.00	105	2871209	10.328	ppbv	100
73) 1,3,5-Trimethylbenzene	16.16	105	2768274	10.405	ppbv	99
74) 1,2,4-Trimethylbenzene	16.93	105	2869772	10.064	ppbv	95
75) 1,3-Dichlorobenzene	17.16	146	1693349	9.608	ppbv	99
76) 1,4-Dichlorobenzene	17.31	146	1702275	9.913	ppbv	100
77) 1,2-Dichlorobenzene	17.99	146	1658605	9.918	ppbv	99
78) Hexachloro-1,3-Butadiene	23.54	225	918879	8.301	ppbv	99
79) Naphthalene	22.41	128	2832391	11.603	ppbv	99
80) Naphthalene, 2-methyl-	25.11	142	789720	9.640	ppbv	96
81) 1,2,4-Trichlorobenzene	22.13	180	1456887	10.760	ppbv	99

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

