

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL061319\
 Data File : VL033901.D
 Acq On : 13 Jun 2019 17:11
 Operator : SY/AP
 Sample : VL0613ABS01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0613ABS01

Manual Integrations
 APPROVED

MMDadoda
 6/17/2019 12:37:04 AM

Quant Time: Jun 14 06:54:02 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL060719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 0
 QLast Update : Fri Jun 07 08:53:27 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.75	49	1059525	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.28	114	2294715	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.23	117	2553257m	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.56	95	1972500	9.41	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.10%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.07	85	1298159	7.551	ppbv	98
3) Chlorodifluoromethane	3.00	51	1026647	8.231	ppbv	99
4) Chloromethane	3.16	50	588004	8.265	ppbv	99
5) Vinyl Chloride	3.28	62	594781	9.010	ppbv	99
6) Bromomethane	3.50	94	380978	8.687	ppbv	95
7) Chloroethane	3.59	64	226338	8.669	ppbv	96
8) Dichlorotetrafluoroethane	3.21	85	1581865	8.609	ppbv	100
9) Propene	3.03	41	409579	8.776	ppbv	100
10) Heptane	8.24	43	1238774	10.501	ppbv	99
11) Trichlorofluoromethane	3.99	101	2122343	9.567	ppbv	96
12) 1,1,2-Trichlorotrifluoroet	4.54	101	1390786	9.276	ppbv	99
13) Ethanol	3.64	45	110362	7.268	ppbv	97
14) Bromoethene	3.78	108	508064	9.094	ppbv	98
15) Acetone	3.89	43	1286682	8.327	ppbv	100
16) 1,3-Butadiene	3.35	39	529457	9.002	ppbv	99
17) tert-Butyl alcohol	4.34	59	1239808	10.264	ppbv	100
18) 1,1-Dichloroethene	4.34	96	603948	9.537	ppbv	96
19) Isopropyl Alcohol	4.01	45	944734	10.702	ppbv	99
20) Methylene Chloride	4.40	84	508547	8.439	ppbv	100
21) Allyl Chloride	4.47	41	855962	9.751	ppbv	99
22) trans-1,2-Dichloroethene	4.95	96	628470	9.415	ppbv	99
23) Vinyl Acetate	5.15	43	1749357	9.740	ppbv	99
24) 1,1-Dichloroethane	5.08	63	1286081	9.206	ppbv	99
25) Ethyl Acetate	5.76	43	2347395	9.975	ppbv	100
26) Hexane	5.77	57	1049092	9.791	ppbv	98
27) Carbon Disulfide	4.61	76	1539376	10.341	ppbv	99
28) Methyl tert-Butyl Ether	5.10	73	1637281	10.105	ppbv	100
29) Chloroform	5.84	83	1828150	9.962	ppbv	100
30) Cyclohexane	7.23	84	810088	10.700	ppbv	99
31) cis-1,2-Dichloroethene	5.63	61	1053128	11.208	ppbv	99
32) 1,1,1-Trichloroethane	6.61	97	1842323	10.407	ppbv	99
34) 2-Butanone	5.32	43	1407017	10.869	ppbv	99
35) Carbon Tetrachloride	7.12	117	1967631	11.098	ppbv	99
36) Benzene	6.99	78	1977814	11.283	ppbv	98
37) 1,2-Dichloroethane	6.40	62	1404935	10.837	ppbv	100
38) Trichloroethene	7.95	130	827866	12.130	ppbv	92
39) 1,2-Dichloropropane	7.72	63	755870	11.173	ppbv	96
40) 1,4-Dioxane	7.94	88	335305	12.152	ppbv #	1
41) Tetrahydrofuran	6.13	42	804390	12.242	ppbv	99
42) Bromodichloromethane	7.90	83	1894414	10.935	ppbv	99
43) Methyl Methacrylate	8.12	69	800143	12.205	ppbv	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

44) 2,2,4-Trimethylpentane	7.98	57	3444765	11.051	ppbv	99
45) t-1,3-Dichloropropene	9.40	75	1111812	12.925	ppbv	99
46) cis-1,3-Dichloropropene	8.82	75	1233792	12.519	ppbv	98
47) 1,1,2-Trichloroethane	9.61	97	859539	10.658	ppbv	98
48) Dibromochloromethane	10.44	129	1693758	11.686	ppbv	99
49) Bromoform	13.19	173	1524184	11.913	ppbv	100
50) 4-Methyl-2-Pentanone	8.86	43	2181160	11.299	ppbv	100
51) 2-Hexanone	10.26	43	1810522	12.011	ppbv #	100
52) Tetrachloroethene	11.36	164	813237	13.185	ppbv	96
53) Toluene	9.94	91	2353824	12.134	ppbv	99
54) 1,2-Dibromoethane	10.75	107	1361721	11.201	ppbv	96
56) 1,1,1,2-Tetrachloroethane	12.27	131	1125886	10.094	ppbv	97
57) Chlorobenzene	12.29	112	1876278	9.812	ppbv	100
58) Ethyl Benzene	12.85	91	3338750	11.598	ppbv	99
59) m/p-Xylene	13.13	91	5677703m	21.689	ppbv	
60) o-Xylene	13.84	91	2917509	10.794	ppbv	100
61) Styrene	13.67	104	2098633	11.998	ppbv	100
62) Isopropylbenzene	14.81	105	3878453	10.647	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.82	83	2074872	10.198	ppbv	99
64) n-propylbenzene	15.71	120	1024764	10.985	ppbv	96
65) tert-Butylbenzene	16.90	119	3685020	10.933	ppbv	100
66) Benzyl Chloride	17.15	91	1996594	11.689	ppbv	100
67) sec-Butylbenzene	17.45	105	5158832	10.910	ppbv	100
69) p-Isopropyltoluene	17.80	119	4279168	10.876	ppbv	100
70) n-Butylbenzene	18.70	91	4445252	10.315	ppbv	100
71) 2-Chlorotoluene	15.60	91	2964303	11.046	ppbv	99
72) 4-Ethyltoluene	15.99	105	3454652	11.232	ppbv	99
73) 1,3,5-Trimethylbenzene	16.15	105	3317343	10.950	ppbv	98
74) 1,2,4-Trimethylbenzene	16.91	105	3563807	10.206	ppbv	97
75) 1,3-Dichlorobenzene	17.15	146	2096018	9.585	ppbv	100
76) 1,4-Dichlorobenzene	17.30	146	2039804	10.159	ppbv	100
77) 1,2-Dichlorobenzene	17.97	146	1964974	9.737	ppbv	100
78) Hexachloro-1,3-Butadiene	23.53	225	1461195	9.270	ppbv	99
79) Naphthalene	22.39	128	2653781	9.508	ppbv	99
80) Naphthalene, 2-methyl-	25.10	142	1014086	9.106	ppbv #	95
81) 1,2,4-Trichlorobenzene	22.12	180	1605429	9.111	ppbv	99

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

