

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL062419\
 Data File : VL033932.D
 Acq On : 24 Jun 2019 11:41
 Operator : SY/AP
 Sample : VL0624ABS01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0624ABS01

Manual Integrations
 APPROVED

MMDadoda
 6/26/2019 8:15:30 AM

Quant Time: Jun 25 03:47:57 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	5.74	49	1127021	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.27	114	2562059	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.21	117	2801207m	10.00	ppbv	-0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.55	95	2147679	9.33	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.30%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.07	85	1576960	8.623	ppbv 100
3) Chlorodifluoromethane	3.00	51	1090513	8.219	ppbv 100
4) Chloromethane	3.16	50	561618	7.421	ppbv 98
5) Vinyl Chloride	3.28	62	578359	8.237	ppbv 100
6) Bromomethane	3.50	94	377669	8.096	ppbv 89
7) Chloroethane	3.59	64	220991	7.958	ppbv 94
8) Dichlorotetrafluoroethane	3.21	85	1537241	7.865	ppbv 98
9) Propene	3.03	41	412438	8.308	ppbv 98
10) Heptane	8.22	43	1285516	10.245	ppbv 100
11) Trichlorofluoromethane	3.99	101	1878249	7.960	ppbv 98
12) 1,1,2-Trichlorotrifluoroet	4.54	101	1275921	8.001	ppbv 100
13) Ethanol	3.64	45	144352	8.937	ppbv 95
14) Bromoethene	3.78	108	493544	8.305	ppbv 99
15) Acetone	3.89	43	1378665	8.388	ppbv 99
16) 1,3-Butadiene	3.35	39	511788	8.180	ppbv 100
17) tert-Butyl alcohol	4.34	59	1141190	8.881	ppbv 99
18) 1,1-Dichloroethene	4.34	96	542509	8.054	ppbv 99
19) Isopropyl Alcohol	4.01	45	873267	9.300	ppbv 99
20) Methylene Chloride	4.39	84	470856	7.346	ppbv 98
21) Allyl Chloride	4.46	41	774917	8.299	ppbv 99
22) trans-1,2-Dichloroethene	4.95	96	568495	8.007	ppbv 95
23) Vinyl Acetate	5.14	43	1726857	9.038	ppbv 99
24) 1,1-Dichloroethane	5.07	63	1193430	8.031	ppbv 100
25) Ethyl Acetate	5.75	43	2349399	9.385	ppbv 100
26) Hexane	5.76	57	1041952	9.142	ppbv 99
27) Carbon Disulfide	4.60	76	1367905	8.639	ppbv 100
28) Methyl tert-Butyl Ether	5.10	73	1545643	8.968	ppbv 99
29) Chloroform	5.83	83	1823159	9.340	ppbv 96
30) Cyclohexane	7.22	84	849548	10.550	ppbv 99
31) cis-1,2-Dichloroethene	5.62	61	1040640	10.412	ppbv 99
32) 1,1,1-Trichloroethane	6.60	97	1835400	9.747	ppbv 99
34) 2-Butanone	5.31	43	1332816	9.221	ppbv 100
35) Carbon Tetrachloride	7.11	117	1990961	10.058	ppbv 97
36) Benzene	6.98	78	2057959	10.515	ppbv 100
37) 1,2-Dichloroethane	6.39	62	1320396	9.122	ppbv 99
38) Trichloroethene	7.94	130	867402	11.383	ppbv 96
39) 1,2-Dichloropropane	7.71	63	754274	9.986	ppbv 95
40) 1,4-Dioxane	7.93	88	320240	10.395	ppbv 88
41) Tetrahydrofuran	6.13	42	768399	10.474	ppbv 99
42) Bromodichloromethane	7.89	83	1933214	9.995	ppbv 99
43) Methyl Methacrylate	8.11	69	842395	11.509	ppbv 100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.97	57	3518688	10.110	ppbv	100
45) t-1,3-Dichloropropene	9.39	75	1043235	10.862	ppbv	99
46) cis-1,3-Dichloropropene	8.81	75	1244917	11.314	ppbv	100
47) 1,1,2-Trichloroethane	9.59	97	896848	9.960	ppbv	97
48) Dibromochloromethane	10.43	129	1683203	10.401	ppbv	99
49) Bromoform	13.18	173	1430500	10.014	ppbv	99
50) 4-Methyl-2-Pentanone	8.85	43	2311291	10.724	ppbv	99
51) 2-Hexanone	10.25	43	1864733	11.079	ppbv #	99
52) Tetrachloroethene	11.35	164	821058	11.923	ppbv	96
53) Toluene	9.92	91	2465738	11.385	ppbv	99
54) 1,2-Dibromoethane	10.73	107	1419779	10.460	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.25	131	1115358	9.115	ppbv	99
57) Chlorobenzene	12.27	112	1835756	8.750	ppbv	100
58) Ethyl Benzene	12.84	91	3320161	10.513	ppbv	98
59) m/p-Xylene	13.12	91	5561407m	19.364	ppbv	
60) o-Xylene	13.82	91	2827274	9.535	ppbv	100
61) Styrene	13.66	104	1988896	10.365	ppbv	100
62) Isopropylbenzene	14.80	105	3888200	9.729	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.81	83	1985119	8.894	ppbv	99
64) n-propylbenzene	15.70	120	1002766	9.798	ppbv	98
65) tert-Butylbenzene	16.88	119	3654908	9.884	ppbv	99
66) Benzyl Chloride	17.13	91	1579459	8.428	ppbv	99
67) sec-Butylbenzene	17.43	105	5110240	9.850	ppbv	100
69) p-Isopropyltoluene	17.79	119	4337164	10.048	ppbv	99
70) n-Butylbenzene	18.69	91	4480591	9.477	ppbv	100
71) 2-Chlorotoluene	15.59	91	2967911	10.080	ppbv	100
72) 4-Ethyltoluene	15.97	105	3369677	9.986	ppbv	99
73) 1,3,5-Trimethylbenzene	16.13	105	3232506	9.725	ppbv	100
74) 1,2,4-Trimethylbenzene	16.90	105	3417370	8.920	ppbv	97
75) 1,3-Dichlorobenzene	17.14	146	2008686	8.372	ppbv	100
76) 1,4-Dichlorobenzene	17.28	146	1964485	8.918	ppbv	100
77) 1,2-Dichlorobenzene	17.96	146	1940935	8.767	ppbv	100
78) Hexachloro-1,3-Butadiene	23.51	225	1484996	8.588	ppbv	99
79) Naphthalene	22.38	128	2922466	9.544	ppbv	99
80) Naphthalene, 2-methyl-	25.09	142	867060	7.097	ppbv	95
81) 1,2,4-Trichlorobenzene	22.10	180	1633990	8.452	ppbv	99

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

