

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL031519\
 Data File : VL033333.D
 Acq On : 15 Mar 2019 15:20
 Operator : SY/AP
 Sample : VSTDICV010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL031519

Manual Integrations
 APPROVED

MMDadoda
 3/19/2019 10:02:29 AM

Quant Time: Mar 15 15:53:03 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL031519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Mar 15 2019
 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	832306	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	1990277	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	2367926m	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.58	95	1664659	9.49	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.90%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.07	85	1334316	9.116	ppbv 97
3) Chlorodifluoromethane	3.01	51	916475	9.593	ppbv 100
4) Chloromethane	3.17	50	493312	9.536	ppbv 97
5) Vinyl Chloride	3.29	62	491356	9.208	ppbv 99
6) Bromomethane	3.52	94	305528	9.632	ppbv 98
7) Chloroethane	3.60	64	179886	9.647	ppbv 92
8) Dichlorotetrafluoroethane	3.22	85	1180999	9.478	ppbv 99
9) Propene	3.04	41	422947	9.918	ppbv 98
10) Heptane	8.25	43	1085916	10.266	ppbv 99
11) Trichlorofluoromethane	4.00	101	1366665	9.377	ppbv 99
12) 1,1,2-Trichlorotrifluoroet	4.55	101	912608	9.438	ppbv 98
13) Ethanol	3.65	45	93125	4.581	ppbv 98
14) Bromoethene	3.79	108	402606	9.989	ppbv 100
15) Acetone	3.90	43	904277	6.989	ppbv 99
16) 1,3-Butadiene	3.36	39	411472	9.792	ppbv 97
17) tert-Butyl alcohol	4.36	59	166018	9.118	ppbv 100
18) 1,1-Dichloroethene	4.35	96	411373	9.304	ppbv 96
19) Isopropyl Alcohol	4.02	45	570740	9.274	ppbv 99
20) Methylene Chloride	4.41	84	344883	8.173	ppbv 99
21) Allyl Chloride	4.48	41	649976	10.356	ppbv 99
22) trans-1,2-Dichloroethene	4.96	96	408822	9.541	ppbv 95
23) Vinyl Acetate	5.16	43	1524114	10.181	ppbv 99
24) 1,1-Dichloroethane	5.09	63	1043763	9.654	ppbv 98
25) Ethyl Acetate	5.77	43	1809857	9.623	ppbv 100
26) Hexane	5.78	57	808993	9.622	ppbv 99
27) Carbon Disulfide	4.62	76	1030922	10.651	ppbv 99
28) Methyl tert-Butyl Ether	5.11	73	1264281	10.123	ppbv 100
29) Chloroform	5.85	83	1360955	9.885	ppbv 99
30) Cyclohexane	7.25	84	714648	10.601	ppbv 97
31) cis-1,2-Dichloroethene	5.64	61	864650	10.285	ppbv 98
32) 1,1,1-Trichloroethane	6.62	97	1329011	9.832	ppbv 99
34) 2-Butanone	5.33	43	1175035	8.990	ppbv 99
35) Carbon Tetrachloride	7.14	117	1421957	10.134	ppbv 98
36) Benzene	7.01	78	1719672	9.655	ppbv 99
37) 1,2-Dichloroethane	6.42	62	1041581	9.248	ppbv 100
38) Trichloroethene	7.97	130	641189	9.513	ppbv 97
39) 1,2-Dichloropropane	7.74	63	648041	9.715	ppbv 99
40) 1,4-Dioxane	7.95	88	224166	9.543	ppbv 95
41) Tetrahydrofuran	6.15	42	703045	10.079	ppbv 100
42) Bromodichloromethane	7.92	83	1475182	9.769	ppbv 99
43) Methyl Methacrylate	8.14	69	698368	10.070	ppbv 98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	2830866	9.596	ppbv	99
45) t-1,3-Dichloropropene	9.42	75	965313	11.274	ppbv	99
46) cis-1,3-Dichloropropene	8.84	75	1085212	10.763	ppbv	96
47) 1,1,2-Trichloroethane	9.62	97	709315	9.624	ppbv	94
48) Dibromochloromethane	10.46	129	1443808	11.681	ppbv	100
49) Bromoform	13.21	173	1278515	10.904	ppbv	100
50) 4-Methyl-2-Pentanone	8.88	43	1751073	9.484	ppbv	100
51) 2-Hexanone	10.28	43	1600156	11.234	ppbv #	100
52) Tetrachloroethene	11.38	164	732678	9.874	ppbv	98
53) Toluene	9.95	91	2301082	11.369	ppbv	99
54) 1,2-Dibromoethane	10.77	107	1307861	10.497	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.29	131	1000588	9.446	ppbv #	94
57) Chlorobenzene	12.31	112	1714307	9.141	ppbv	99
58) Ethyl Benzene	12.87	91	3241308	9.676	ppbv	99
59) m/p-Xylene	13.16	91	5389421m	18.721	ppbv	
60) o-Xylene	13.86	91	2607530	9.285	ppbv	100
61) Styrene	13.69	104	1964659	9.991	ppbv	99
62) Isopropylbenzene	14.83	105	3619042	9.269	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.84	83	1799948	8.866	ppbv	100
64) n-propylbenzene	15.73	120	909255	9.203	ppbv	100
65) tert-Butylbenzene	16.92	119	3205514	9.119	ppbv	99
66) Benzyl Chloride	17.16	91	1772079	12.199	ppbv	99
67) sec-Butylbenzene	17.47	105	4582296	9.200	ppbv	100
69) p-Isopropyltoluene	17.82	119	3786256	9.304	ppbv	99
70) n-Butylbenzene	18.72	91	4029153	9.285	ppbv	100
71) 2-Chlorotoluene	15.62	91	2803800	9.225	ppbv	100
72) 4-Ethyltoluene	16.01	105	2977979	9.337	ppbv	99
73) 1,3,5-Trimethylbenzene	16.17	105	2834852	9.124	ppbv	98
74) 1,2,4-Trimethylbenzene	16.94	105	2960562	8.997	ppbv	94
75) 1,3-Dichlorobenzene	17.17	146	1709770	8.816	ppbv	100
76) 1,4-Dichlorobenzene	17.32	146	1713728	9.127	ppbv	100
77) 1,2-Dichlorobenzene	18.00	146	1666210	9.071	ppbv	100
78) Hexachloro-1,3-Butadiene	23.55	225	1249262	11.344	ppbv	99
79) Naphthalene	22.42	128	2919240	9.206	ppbv	99
80) Naphthalene, 2-methyl-	25.12	142	1665507	11.077	ppbv	100
81) 1,2,4-Trichlorobenzene	22.14	180	1461822	9.041	ppbv	100

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

