

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL092418\
 Data File : VL032514.D
 Acq On : 24 Sep 2018 16:26
 Operator : SY/AP
 Sample : VSTDICCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

apatel
 9/26/2018 4:47:00 PM

Quant Time: Sep 24 18:31:37 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL092418AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Sep 24
 QLast Update : Fri Sep 21 02:39:49 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.79	49	1578732	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.32	114	3645194	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.27	117	3787060m	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.61	95	2799485	9.96	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.09	85	1290799	6.392	ppbv	100
3) Chlorodifluoromethane	3.03	51	1196461	8.372	ppbv	100
4) Chloromethane	3.19	50	702123	8.114	ppbv	98
5) Vinyl Chloride	3.31	62	682119	7.987	ppbv	99
6) Bromomethane	3.53	94	419370	9.354	ppbv	98
7) Chloroethane	3.62	64	254331	8.603	ppbv	97
8) Dichlorotetrafluoroethane	3.24	85	1436116	8.013	ppbv	100
9) Propene	3.05	41	567878	9.851	ppbv	99
10) Heptane	8.28	43	2219784	10.733	ppbv	100
11) Trichlorofluoromethane	4.03	101	1515145	8.321	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.58	101	1266820	10.267	ppbv	100
13) Ethanol	3.67	45	146207	8.136	ppbv	99
14) Bromoethene	3.81	108	488371	9.342	ppbv	100
15) Acetone	3.92	43	1189697	8.368	ppbv	99
16) 1,3-Butadiene	3.38	39	552949	8.265	ppbv	98
17) tert-Butyl alcohol	4.38	59	146678	6.704	ppbv #	100
18) 1,1-Dichloroethene	4.37	96	628753	11.150	ppbv	97
19) Isopropyl Alcohol	4.04	45	917046	9.833	ppbv #	98
20) Methylene Chloride	4.43	84	553504	10.210	ppbv	96
21) Allyl Chloride	4.50	41	1094443	11.590	ppbv	99
22) trans-1,2-Dichloroethene	4.99	96	591712	9.670	ppbv	100
23) Vinyl Acetate	5.18	43	2629629	11.159	ppbv	99
24) 1,1-Dichloroethane	5.12	63	1906503	9.819	ppbv	99
25) Ethyl Acetate	5.80	43	3215767	9.578	ppbv	100
26) Hexane	5.81	57	1473794	9.804	ppbv	98
27) Carbon Disulfide	4.64	76	1596260	11.503	ppbv	100
28) Methyl tert-Butyl Ether	5.14	73	1981809	10.737	ppbv	99
29) Chloroform	5.88	83	2116679	9.235	ppbv	98
30) Cyclohexane	7.28	84	1325246	12.039	ppbv	100
31) cis-1,2-Dichloroethene	5.67	61	1512530	11.112	ppbv	98
32) 1,1,1-Trichloroethane	6.65	97	2283735	10.689	ppbv	99
34) 2-Butanone	5.35	43	2193451	9.059	ppbv	99
35) Carbon Tetrachloride	7.16	117	2299498	9.386	ppbv	99
36) Benzene	7.04	78	2987618	9.631	ppbv	100
37) 1,2-Dichloroethane	6.44	62	1689550	8.888	ppbv	100
38) Trichloroethene	7.99	130	1115129	9.463	ppbv	99
39) 1,2-Dichloropropane	7.77	63	1331648	10.033	ppbv	96
40) 1,4-Dioxane	7.98	88	405009	10.171	ppbv #	1
41) Tetrahydrofuran	6.18	42	1294255	9.819	ppbv	99
42) Bromodichloromethane	7.95	83	2578927	9.836	ppbv	95
43) Methyl Methacrylate	8.17	69	1344476	10.216	ppbv	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.03	57	5726508	9.548	ppbv	99
45) t-1,3-Dichloropropene	9.45	75	1898079	13.478	ppbv	96
46) cis-1,3-Dichloropropene	8.87	75	2078143	11.548	ppbv	98
47) 1,1,2-Trichloroethane	9.65	97	1417883	10.048	ppbv	99
48) Dibromochloromethane	10.48	129	2324666	11.895	ppbv	100
49) Bromoform	13.24	173	1787232	10.521	ppbv	100
50) 4-Methyl-2-Pentanone	8.90	43	3552566	9.740	ppbv	100
51) 2-Hexanone	10.30	43	3151451	13.414	ppbv #	100
52) Tetrachloroethene	11.41	164	1005658	10.455	ppbv	99
53) Toluene	9.98	91	3986756	12.295	ppbv	99
54) 1,2-Dibromoethane	10.79	107	2144520	11.319	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.32	131	1543671	9.041	ppbv #	60
57) Chlorobenzene	12.34	112	2750412	9.087	ppbv	99
58) Ethyl Benzene	12.90	91	4925674	10.869	ppbv	99
59) m/p-Xylene	13.18	91	8116082m	20.087	ppbv	
60) o-Xylene	13.88	91	3919495	9.876	ppbv	99
61) Styrene	13.72	104	2982404	11.607	ppbv	99
62) Isopropylbenzene	14.86	105	5577384	9.997	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.87	83	2984639	8.411	ppbv	100
64) n-propylbenzene	15.76	120	1452912	9.961	ppbv	99
65) tert-Butylbenzene	16.94	119	4641842	9.655	ppbv	100
66) Benzyl Chloride	17.19	91	2993606	11.177	ppbv	100
67) sec-Butylbenzene	17.49	105	6896186	9.538	ppbv	99
69) p-Isopropyltoluene	17.85	119	5507299	9.828	ppbv	100
70) n-Butylbenzene	18.75	91	6051700	9.527	ppbv	99
71) 2-Chlorotoluene	15.65	91	4398191	10.319	ppbv	99
72) 4-Ethyltoluene	16.03	105	4567145	10.540	ppbv	100
73) 1,3,5-Trimethylbenzene	16.19	105	4361620	10.047	ppbv	97
74) 1,2,4-Trimethylbenzene	16.96	105	4322532	9.108	ppbv	96
75) 1,3-Dichlorobenzene	17.20	146	2442212	8.672	ppbv	100
76) 1,4-Dichlorobenzene	17.34	146	2475015	9.472	ppbv	100
77) 1,2-Dichlorobenzene	18.02	146	2415077	8.889	ppbv	100
78) Hexachloro-1,3-Butadiene	23.57	225	811002	7.989	ppbv	100
79) Naphthalene	22.45	128	4056752	10.511	ppbv	100
80) Naphthalene, 2-methyl-	25.14	142	1536155	14.959	ppbv	99
81) 1,2,4-Trichlorobenzene	22.17	180	1928583	9.922	ppbv	99

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

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