

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL012819\
 Data File : VL033117.D
 Acq On : 28 Jan 2019 17:36
 Operator : SY/AP
 Sample : VSTDIC0.5
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Manual Integrations
 APPROVED

apatel
 1/29/2019 2:36:13 PM

Quant Time: Jan 28 19:50:49 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL012819AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Jan 28 2019
 QLast Update : Mon Jan 28 16:32:44 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	1135684	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2903752	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2728298	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	2651022	12.68	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	126.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.07	85	154373	0.730	ppbv	100
3) Chlorodifluoromethane	3.01	51	86352	0.672	ppbv	96
4) Chloromethane	3.17	50	44798	0.608	ppbv	92
5) Vinyl Chloride	3.28	62	44043	0.592	ppbv	98
6) Bromomethane	3.51	94	30136	0.597	ppbv	98
7) Chloroethane	3.59	64	18029	0.620	ppbv	99
8) Dichlorotetrafluoroethane	3.22	85	122788	0.674	ppbv	99
9) Propene	3.04	41	28971	0.603	ppbv	95
10) Heptane	8.24	43	68554	0.501	ppbv	97
11) Trichlorofluoromethane	4.00	101	131976	0.565	ppbv	93
12) 1,1,2-Trichlorotrifluoroet	4.55	101	93119	0.631	ppbv	98
13) Ethanol	3.66	45	13155m	0.687	ppbv	
14) Bromoethene	3.79	108	37370	0.573	ppbv	99
15) Acetone	3.91	43	90536	0.576	ppbv	99
16) 1,3-Butadiene	3.36	39	33041	0.557	ppbv	96
17) tert-Butyl alcohol	4.38	59	17752m	0.533	ppbv	
18) 1,1-Dichloroethene	4.35	96	38750	0.570	ppbv	95
19) Isopropyl Alcohol	4.03	45	58019	0.536	ppbv #	94
20) Methylene Chloride	4.40	84	43017	0.656	ppbv	96
21) Allyl Chloride	4.47	41	56609	0.581	ppbv	95
22) trans-1,2-Dichloroethene	4.96	96	39234m	0.582	ppbv	
23) Vinyl Acetate	5.16	43	108574	0.543	ppbv #	96
24) 1,1-Dichloroethane	5.09	63	99185	0.584	ppbv	96
25) Ethyl Acetate	5.77	43	145714	0.548	ppbv	99
26) Hexane	5.78	57	67379	0.539	ppbv	93
27) Carbon Disulfide	4.62	76	88464	0.573	ppbv #	94
28) Methyl tert-Butyl Ether	5.12	73	100049	0.512	ppbv	99
29) Chloroform	5.84	83	122885	0.576	ppbv	96
30) Cyclohexane	7.25	84	41091	0.440	ppbv	82
31) cis-1,2-Dichloroethene	5.63	61	56664	0.488	ppbv	98
32) 1,1,1-Trichloroethane	6.61	97	164346	0.759	ppbv	98
34) 2-Butanone	5.34	43	83962	0.498	ppbv	99
35) Carbon Tetrachloride	7.13	117	163205	0.654	ppbv	97
36) Benzene	7.00	78	155520	0.654	ppbv	96
37) 1,2-Dichloroethane	6.40	62	118672	0.715	ppbv	98
38) Trichloroethene	7.96	130	50359	0.515	ppbv	97
39) 1,2-Dichloropropane	7.73	63	47384	0.530	ppbv	91
40) 1,4-Dioxane	7.99	88	18464m	0.544	ppbv	
41) Tetrahydrofuran	6.17	42	53227m	0.620	ppbv	
42) Bromodichloromethane	7.91	83	129736	0.569	ppbv #	98
43) Methyl Methacrylate	8.14	69	40147	0.450	ppbv	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	202125	0.502	ppbv	92
45) t-1,3-Dichloropropene	9.41	75	42988m	0.387	ppbv	
46) cis-1,3-Dichloropropene	8.83	75	55423	0.437	ppbv	89
47) 1,1,2-Trichloroethane	9.61	97	56928	0.545	ppbv	94
48) Dibromochloromethane	10.44	129	95083	0.515	ppbv	98
49) Bromoform	13.20	173	81630	0.507	ppbv	99
50) 4-Methyl-2-Pentanone	8.88	43	104054m	0.487	ppbv	
51) 2-Hexanone	10.30	43	59089m	0.382	ppbv	
52) Tetrachloroethene	11.38	164	44766m	0.532	ppbv	
53) Toluene	9.94	91	103057	0.404	ppbv	97
54) 1,2-Dibromoethane	10.76	107	73394m	0.488	ppbv	
56) 1,1,1,2-Tetrachloroethane	12.27	131	79046	0.561	ppbv #	1
57) Chlorobenzene	12.30	112	124488	0.547	ppbv	88
58) Ethyl Benzene	12.86	91	134834	0.391	ppbv	95
59) m/p-Xylene	13.15	91	288817m	0.906	ppbv	
60) o-Xylene	13.85	91	179604m	0.576	ppbv	
61) Styrene	13.68	104	86326	0.434	ppbv	96
62) Isopropylbenzene	14.82	105	264423	0.596	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.83	83	162900	0.703	ppbv	99
64) n-propylbenzene	15.72	120	61513	0.545	ppbv	81
65) tert-Butylbenzene	16.91	119	215669m	0.548	ppbv	
66) Benzyl Chloride	17.15	91	100522	0.448	ppbv	96
67) sec-Butylbenzene	17.46	105	317151	0.564	ppbv	99
69) p-Isopropyltoluene	17.82	119	240913	0.527	ppbv	95
70) n-Butylbenzene	18.71	91	230237	0.501	ppbv	97
71) 2-Chlorotoluene	15.62	91	162047m	0.515	ppbv	
72) 4-Ethyltoluene	16.00	105	170588	0.498	ppbv #	97
73) 1,3,5-Trimethylbenzene	16.16	105	177572	0.525	ppbv	88
74) 1,2,4-Trimethylbenzene	16.92	105	204779	0.547	ppbv #	89
75) 1,3-Dichlorobenzene	17.16	146	139187m	0.631	ppbv	
76) 1,4-Dichlorobenzene	17.30	146	122440m	0.610	ppbv	
77) 1,2-Dichlorobenzene	17.99	146	128739m	0.648	ppbv	
78) Hexachloro-1,3-Butadiene	23.54	225	83941	0.550	ppbv	99
79) Naphthalene	22.42	128	87978m	0.279	ppbv	
80) Naphthalene, 2-methyl-	25.11	142	10350	0.108	ppbv	94
81) 1,2,4-Trichlorobenzene	22.14	180	51527m	0.338	ppbv	

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

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