

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL052819\
 Data File : VL033814.D
 Acq On : 28 May 2019 21:53
 Operator : SY/AP
 Sample : VL0528ABS02DUP
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VL0528ABS02DUP

Manual Integrations
 APPROVED

apatel
 5/29/2019 12:40:43 PM

Quant Time: May 29 05:49:12 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri May 1
 QLast Update : Fri May 17 08:15:41 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	868496	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2167541	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2284255m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	1695744	9.16	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	91.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.07	85	1545814	8.446	ppbv	99
3) Chlorodifluoromethane	3.01	51	1008808	10.141	ppbv	99
4) Chloromethane	3.17	50	591945	10.403	ppbv	99
5) Vinyl Chloride	3.29	62	564354	9.737	ppbv	95
6) Bromomethane	3.51	94	370954	10.489	ppbv	99
7) Chloroethane	3.60	64	222151	10.785	ppbv	94
8) Dichlorotetrafluoroethane	3.22	85	1435127	9.726	ppbv	99
9) Propene	3.03	41	447417	10.574	ppbv	99
10) Heptane	8.25	43	1167174	9.741	ppbv	99
11) Trichlorofluoromethane	4.00	101	1740924	9.966	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.55	101	1163738	9.540	ppbv	99
13) Ethanol	3.65	45	100803	7.371	ppbv	99
14) Bromoethene	3.79	108	485865	10.834	ppbv	99
15) Acetone	3.90	43	1083816	8.994	ppbv	99
16) 1,3-Butadiene	3.36	39	499458	10.409	ppbv	99
17) tert-Butyl alcohol	4.35	59	1045591	10.731	ppbv	99
18) 1,1-Dichloroethene	4.35	96	520656	10.112	ppbv	98
19) Isopropyl Alcohol	4.02	45	810960	10.438	ppbv	99
20) Methylene Chloride	4.41	84	436056	9.399	ppbv	98
21) Allyl Chloride	4.47	41	763999	10.165	ppbv	98
22) trans-1,2-Dichloroethene	4.96	96	526315	9.973	ppbv	94
23) Vinyl Acetate	5.15	43	1664727	10.478	ppbv	100
24) 1,1-Dichloroethane	5.09	63	1181545	9.783	ppbv	99
25) Ethyl Acetate	5.76	43	2044330	9.658	ppbv	100
26) Hexane	5.78	57	909383	9.993	ppbv	99
27) Carbon Disulfide	4.62	76	1285036	10.293	ppbv	99
28) Methyl tert-Butyl Ether	5.11	73	1565030	10.549	ppbv	100
29) Chloroform	5.85	83	1532387	9.142	ppbv	99
30) Cyclohexane	7.24	84	791091	10.340	ppbv	100
31) cis-1,2-Dichloroethene	5.64	61	933138	10.342	ppbv	99
32) 1,1,1-Trichloroethane	6.62	97	1566666	9.360	ppbv	100
34) 2-Butanone	5.32	43	1318840	9.816	ppbv	99
35) Carbon Tetrachloride	7.13	117	1713935	9.871	ppbv	98
36) Benzene	7.00	78	1871772	9.493	ppbv	99
37) 1,2-Dichloroethane	6.41	62	1178969	9.269	ppbv	100
38) Trichloroethene	7.96	130	800271	10.938	ppbv	99
39) 1,2-Dichloropropane	7.73	63	716958	9.753	ppbv	97
40) 1,4-Dioxane	7.95	88	315835	10.271	ppbv #	94
41) Tetrahydrofuran	6.15	42	732865	9.736	ppbv	98
42) Bromodichloromethane	7.92	83	1745315	10.023	ppbv	95
43) Methyl Methacrylate	8.14	69	773374	10.658	ppbv	98

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

44) 2,2,4-Trimethylpentane	7.99	57	3294977	9.888	ppbv	100
45) t-1,3-Dichloropropene	9.41	75	1007447	10.952	ppbv	96
46) cis-1,3-Dichloropropene	8.83	75	1144048	10.621	ppbv	99
47) 1,1,2-Trichloroethane	9.61	97	781228	9.355	ppbv	98
48) Dibromochloromethane	10.45	129	1442849	9.972	ppbv	100
49) Bromoform	13.20	173	1354845	11.128	ppbv	100
50) 4-Methyl-2-Pentanone	8.87	43	2019253	9.771	ppbv	100
51) 2-Hexanone	10.27	43	1641266	10.176	ppbv #	99
52) Tetrachloroethene	11.37	164	713094	10.288	ppbv	98
53) Toluene	9.94	91	2187238	10.285	ppbv	100
54) 1,2-Dibromoethane	10.76	107	1258572	9.876	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.27	131	963990	9.120	ppbv	96
57) Chlorobenzene	12.30	112	1677435	8.921	ppbv	98
58) Ethyl Benzene	12.86	91	3264632	10.792	ppbv	99
59) m/p-Xylene	13.15	91	5369977m	20.308	ppbv	
60) o-Xylene	13.85	91	2644819	9.922	ppbv	99
61) Styrene	13.68	104	1968606	10.969	ppbv	100
62) Isopropylbenzene	14.82	105	3413682	9.510	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.83	83	1832974	9.456	ppbv	99
64) n-propylbenzene	15.72	120	880363	9.481	ppbv	96
65) tert-Butylbenzene	16.90	119	3178950	9.699	ppbv	99
66) Benzyl Chloride	17.15	91	1611698	10.325	ppbv	100
67) sec-Butylbenzene	17.45	105	4470349	9.745	ppbv	99
69) p-Isopropyltoluene	17.81	119	3749961	9.890	ppbv	100
70) n-Butylbenzene	18.71	91	3971208	9.767	ppbv	100
71) 2-Chlorotoluene	15.61	91	2609714	9.799	ppbv	100
72) 4-Ethyltoluene	15.99	105	3047163	9.998	ppbv	100
73) 1,3,5-Trimethylbenzene	16.15	105	2913135	9.796	ppbv	98
74) 1,2,4-Trimethylbenzene	16.92	105	3068472	9.482	ppbv	99
75) 1,3-Dichlorobenzene	17.16	146	1782108	8.986	ppbv	99
76) 1,4-Dichlorobenzene	17.30	146	1774064	9.412	ppbv	99
77) 1,2-Dichlorobenzene	17.98	146	1726653	9.266	ppbv	100
78) Hexachloro-1,3-Butadiene	23.53	225	999539	7.095	ppbv	98
79) Naphthalene	22.40	128	2329572	7.750	ppbv	99
80) Naphthalene, 2-methyl-	25.11	142	675794	5.917	ppbv	96
81) 1,2,4-Trichlorobenzene	22.13	180	1363790	7.748	ppbv	99

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

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