

Data File : VU031512.D
Acq On : 25 Apr 2019 22:30
Operator : JC/SP
Sample : VSTDICV010
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
ICVVU042619

Quant Time: Apr 26 04:50:49 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\524U042619DW.M
Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
QLast Update : Fri Apr 26 04:42:12 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	5.74	96	77498	1.00	ug/l	0.00

System Monitoring Compounds

57) 4-Bromofluorobenzene	10.31	95	30484	1.12	ug/l	0.00
Spiked Amount	1.000		Recovery	=	112.00%	
68) 1,2-Dichlorobenzene-d4	11.86	152	26660	1.06	ug/l	0.00
Spiked Amount	1.000		Recovery	=	106.00%	

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	228255	6.525	ug/l 99
3) Chloromethane	1.32	50	346755	8.306	ug/l 98
4) Vinyl Chloride	1.40	62	341263	8.586	ug/l 99
5) Bromomethane	1.63	94	181534	9.425	ug/l 100
6) Chloroethane	1.70	64	204810	9.316	ug/l 98
7) Trichlorofluoromethane	1.88	101	426957	9.431	ug/l 98
8) 1,1,2-Trichloro-1,2,2-trif	2.29	101	234679	10.515	ug/l 99
9) 1,1-Dichloroethene	2.28	96	248164	11.183	ug/l 99
10) Iodomethane	2.41	142	264969	10.854	ug/l 99
11) Allyl Chloride	2.59	41	518764	10.673	ug/l 96
12) Acrylonitrile	2.93	53	370691	55.142	ug/l 95
13) Acetone	2.32	43	300762	49.100	ug/l 98
14) Carbon Disulfide	2.47	76	831218	9.759	ug/l 100
15) Methylene Chloride	2.69	84	282900	10.058	ug/l 97
16) trans-1,2-Dichloroethene	2.98	96	268878	10.829	ug/l 99
17) 1,1-Dichloroethane	3.44	63	544254	10.514	ug/l 99
18) 2-Butanone	4.27	43	453177	56.620	ug/l 99
19) Cyclohexane	4.99	56	429340	10.774	ug/l 89
20) Methylcyclohexane	6.41	83	409854	12.814	ug/l 99
21) 2,2-Dichloropropane	4.22	77	368444	9.742	ug/l 99
22) cis-1,2-Dichloroethene	4.22	96	285457	10.750	ug/l 99
23) Diethyl Ether	2.10	59	220289	10.359	ug/l 97
24) tert-Butyl Alcohol	2.83	59	118700	53.819	ug/l 99
25) Methyl tert-Butyl Ether	3.00	73	700342	10.840	ug/l 98
26) Bromochloromethane	4.54	128	108305	9.651	ug/l 93
27) Chloroform	4.67	83	511609	10.662	ug/l 97
28) 1,1,1-Trichloroethane	4.91	97	429014	10.614	ug/l 99
29) 1,1-Dichloropropene	5.13	75	387819	11.848	ug/l 99
30) Carbon Tetrachloride	5.13	117	365929	10.629	ug/l 99
31) Isopropyl Ether	3.57	45	946289	12.207	ug/l # 1
34) Propionitrile	4.32	54	262697	122.358	ug/l # 99
35) Benzene	5.38	78	1149377	11.482	ug/l 99
36) 1,2-Dichloroethane	5.40	62	343549	10.532	ug/l 99
37) Trichloroethene	6.18	130	266662	10.887	ug/l 99
38) 1,2-Dichloropropane	6.43	63	318986	11.278	ug/l 100
39) Methacrylonitrile	4.54	41	110863	12.308	ug/l 98
40) Methyl acrylate	4.42	55	175751	12.343	ug/l # 94
41) Tetrahydrofuran	4.64	42	309275	62.664	ug/l 99
42) 1-Chlorobutane	5.06	56	581269	11.705	ug/l 98
43) Dibromomethane	6.56	93	148566	10.689	ug/l 99
44) Bromodichloromethane	6.75	83	382702	11.082	ug/l 98

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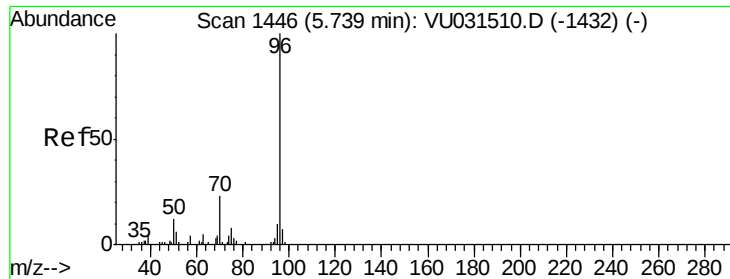
Quant Time: Apr 26 04:50:49 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\524U042619DW.M
Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
QLast Update : Fri Apr 26 04:42:12 2019
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
45) 4-Methyl-2-Pentanone	7.46	43	1012445	60.861	ug/l	99
46) t-1,4-Dichloro-2-butene	10.49	75	254096	49.777	ug/l #	37
47) Methyl methacrylate	6.62	69	140087	13.045	ug/l	97
48) Ethyl methacrylate	8.02	69	264665	14.162	ug/l	98
49) Toluene	7.63	92	645623	12.406	ug/l	98
50) t-1,3-Dichloropropene	7.88	75	345476	12.699	ug/l	98
51) cis-1,3-Dichloropropene	7.26	75	409852	12.368	ug/l	100
52) 1,1,2-Trichloroethane	8.06	97	209961	11.575	ug/l	97
53) 1,3-Dichloropropane	8.24	76	370265	11.639	ug/l	99
54) 2-Hexanone	8.36	43	701002	62.498	ug/l	99
55) Dibromochloromethane	8.47	129	235479	11.513	ug/l	100
56) 1,2-Dibromoethane	8.58	107	191487	11.798	ug/l	99
58) Tetrachloroethene	8.22	164	248330	10.512	ug/l	98
59) Chlorobenzene	9.12	112	661123	12.109	ug/l	98
60) 1,1,1,2-Tetrachloroethane	9.20	131	247889	11.643	ug/l	97
61) Pentachloroethane	11.10	117	169217	11.215	ug/l	98
62) Hexachloroethane	12.14	117	177978	11.977	ug/l	100
63) Ethyl Benzene	9.25	91	1222940	13.680	ug/l	100
64) m/p-Xylenes	9.37	106	914762	27.347	ug/l	96
65) o-Xylene	9.77	106	422198	12.989	ug/l	99
66) Styrene	9.79	104	768255	11.944	ug/l	100
67) Bromoform	9.95	173	133384	11.655	ug/l	97
69) Isopropylbenzene	10.16	105	1174495	13.798	ug/l	99
70) 1,1,2,2-Tetrachloroethane	10.45	83	257712	11.037	ug/l	100
71) 1,2,3-Trichloropropane	10.49	75	254096	14.933	ug/l #	88
72) Bromobenzene	10.45	156	267065	12.370	ug/l	97
73) n-propylbenzene	10.58	120	303163	13.761	ug/l	99
74) 2-Chlorotoluene	10.66	126	267392	12.735	ug/l	98
75) 1,3,5-Trimethylbenzene	10.77	105	1033431	12.243	ug/l	100
76) 4-Chlorotoluene	10.77	126	284941	12.105	ug/l	96
77) tert-Butylbenzene	11.10	119	883025	12.980	ug/l	100
78) 1,2,4-Trimethylbenzene	11.14	105	1030422	12.024	ug/l	100
79) sec-Butylbenzene	11.32	105	1173531	12.646	ug/l	100
80) Nitrobenzene	12.87	77	6643	11.819	ug/l #	91
81) p-Isopropyltoluene	11.47	119	1038731	12.122	ug/l	100
82) 1,3-Dichlorobenzene	11.41	146	512884	12.012	ug/l	98
83) 1,4-Dichlorobenzene	11.50	146	517203	12.616	ug/l	100
84) n-Butylbenzene	11.89	91	1030369	12.136	ug/l	100
85) 1,2-Dichlorobenzene	11.87	146	469769	11.577	ug/l	98
86) 1,2-Dibromo-3-Chloropropan	12.65	75	40211	11.964	ug/l	100
87) 1,2,4-Trichlorobenzene	13.50	180	316008	12.650	ug/l	98
88) Hexachlorobutadiene	13.69	225	180448	12.103	ug/l	99
89) Naphthalene	13.74	128	599349	12.780	ug/l	99
90) 1,2,3-Trichlorobenzene	13.98	180	296699	14.095	ug/l	100

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

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#1

Fluorobenzene

Concen: 1.000 ug/l

RT: 5.74 min Scan# 1446

Delta R.T. 0.00 min

Lab File: VU031512.D

Acq: 25 Apr 2019 22:30

Instrument :

MSVOA_U

ClientSampleId :

ICVVU042619

Tgt Ion: 96 Resp: 77498

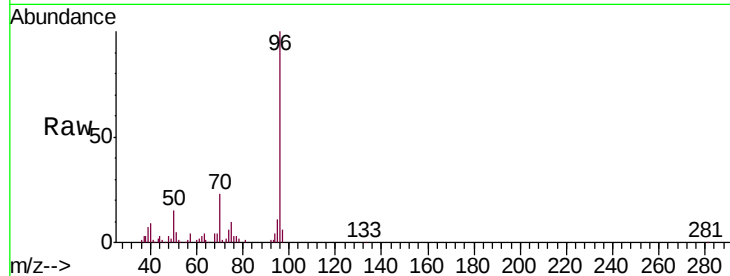
Ion Ratio Lower Upper

96 100

70 22.0 18.2 27.2

95 9.9 7.7 11.5

97 0.0 0.0 0.0

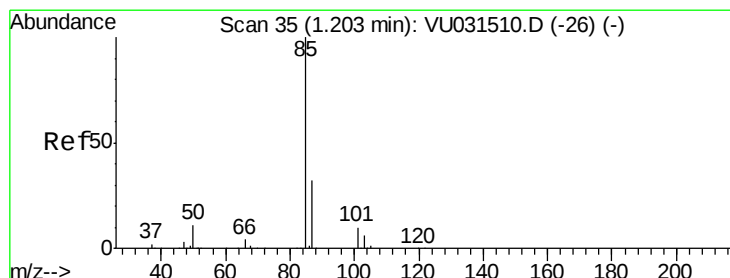
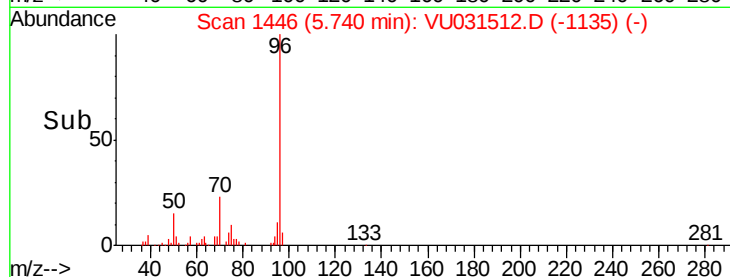
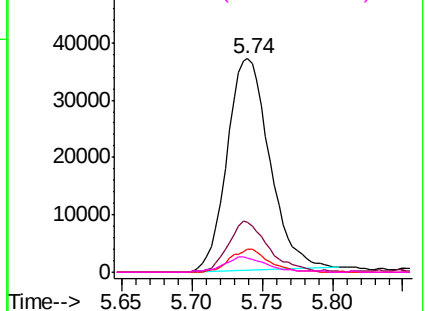


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 70.00 (69.70 to 70.70): VU0

Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0



#2

Dichlorodifluoromethane

Concen: 6.525 ug/l

RT: 1.20 min Scan# 35

Delta R.T. 0.00 min

Lab File: VU031512.D

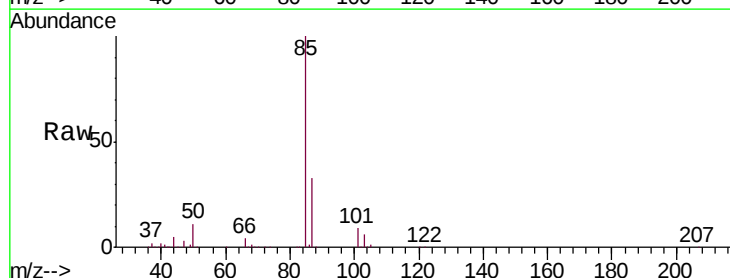
Acq: 25 Apr 2019 22:30

Tgt Ion: 85 Resp: 228255

Ion Ratio Lower Upper

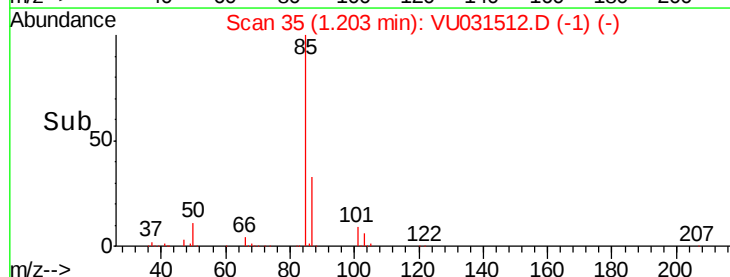
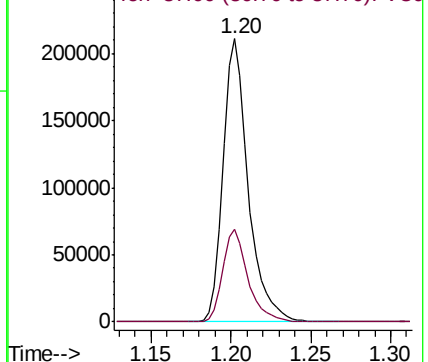
85 100

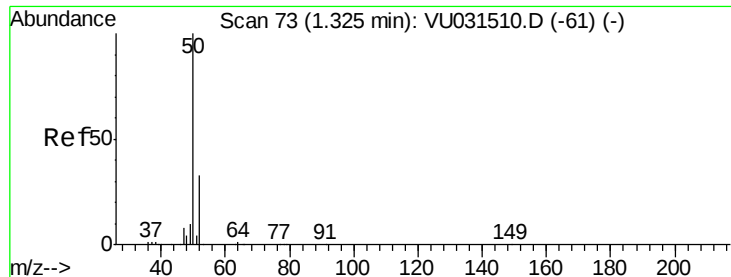
87 32.5 16.1 48.2



Abundance Ion 85.00 (84.70 to 85.70): VU0

Ion 87.00 (86.70 to 87.70): VU0





#3

Chloromethane

Concen: 8.306 ug/l

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VU031512.D

Acq: 25 Apr 2019 22:30

Instrument :

MSVOA_U

ClientSampleId :

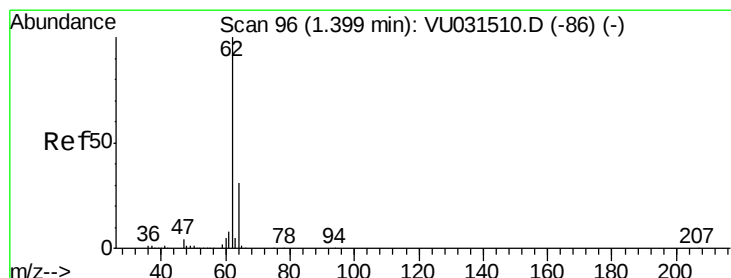
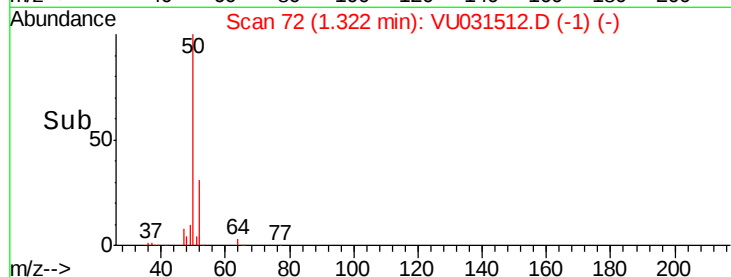
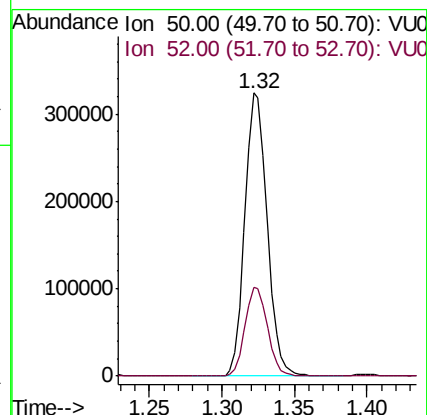
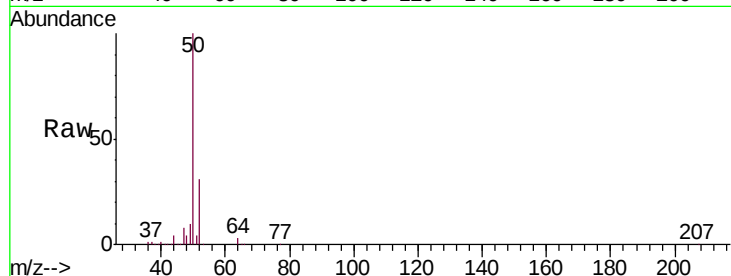
ICVVU042619

Tgt Ion: 50 Resp: 346755

Ion Ratio Lower Upper

50 100

52 31.4 26.1 39.1



#4

Vinyl Chloride

Concen: 8.586 ug/l

RT: 1.40 min Scan# 96

Delta R.T. 0.00 min

Lab File: VU031512.D

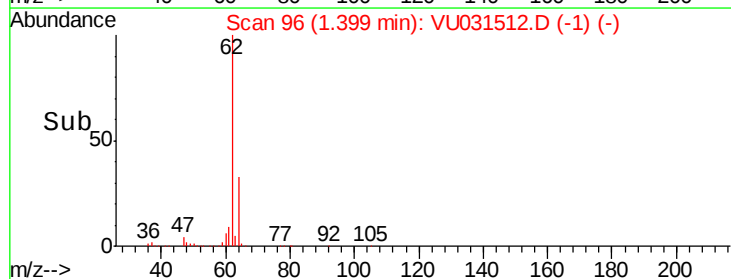
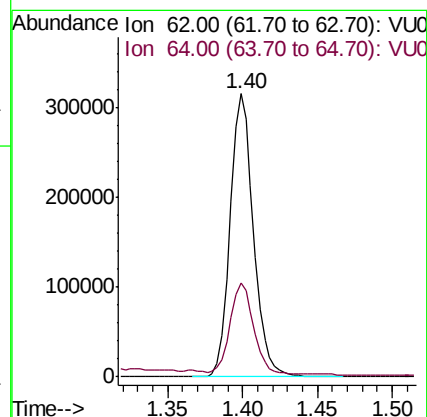
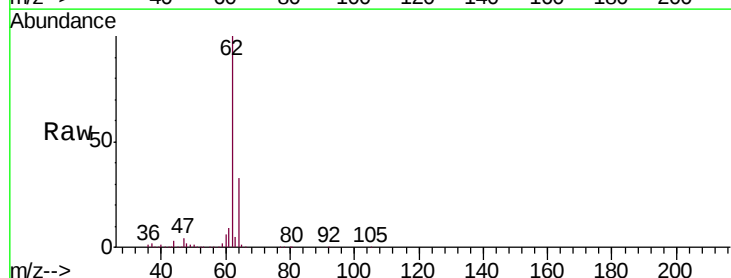
Acq: 25 Apr 2019 22:30

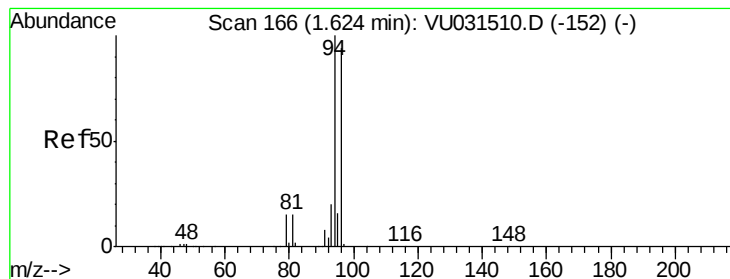
Tgt Ion: 62 Resp: 341263

Ion Ratio Lower Upper

62 100

64 32.6 25.5 38.3





#5

Bromomethane

Concen: 9.425 ug/l

RT: 1.63 min Scan# 167

Delta R.T. 0.00 min

Lab File: VU031512.D

Acq: 25 Apr 2019 22:30

Instrument :

MSVOA_U

ClientSampleId :

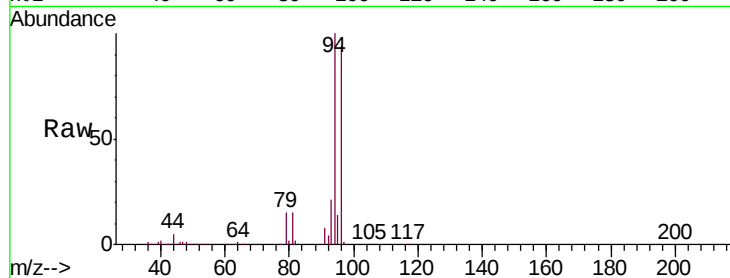
ICVVU042619

Tgt Ion: 94 Resp: 181534

Ion Ratio Lower Upper

94 100

96 94.2 75.5 113.3



Abundance Ion 94.00 (93.70 to 94.70): VU031512.D (-167) (-)

Ion 96.00 (95.70 to 96.70): VU031512.D (-167) (-)

1.63

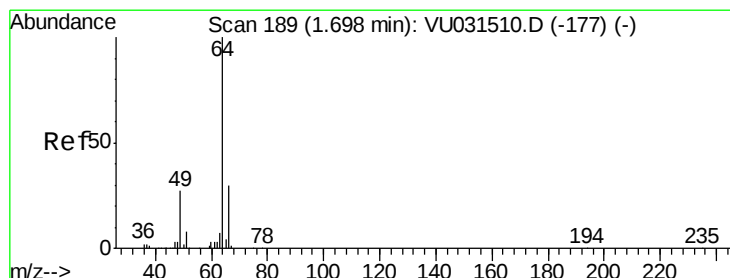
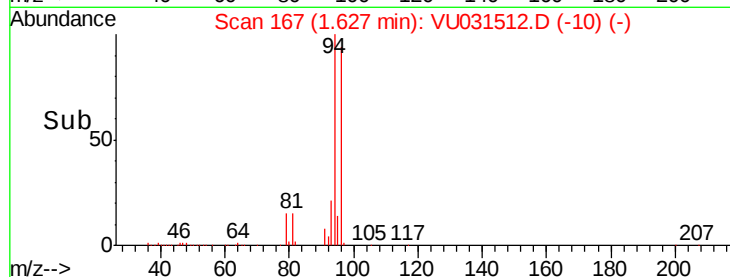
150000

100000

50000

0

Time-->



#6

Chloroethane

Concen: 9.316 ug/l

RT: 1.70 min Scan# 189

Delta R.T. 0.00 min

Lab File: VU031512.D

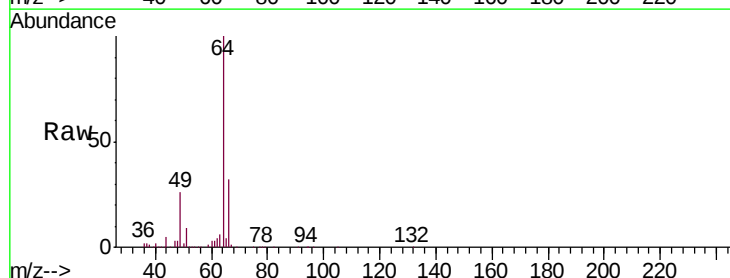
Acq: 25 Apr 2019 22:30

Tgt Ion: 64 Resp: 204810

Ion Ratio Lower Upper

64 100

66 31.7 24.3 36.5



Abundance Ion 64.00 (63.70 to 64.70): VU031512.D (-189) (-)

Ion 66.00 (65.70 to 66.70): VU031512.D (-189) (-)

1.70

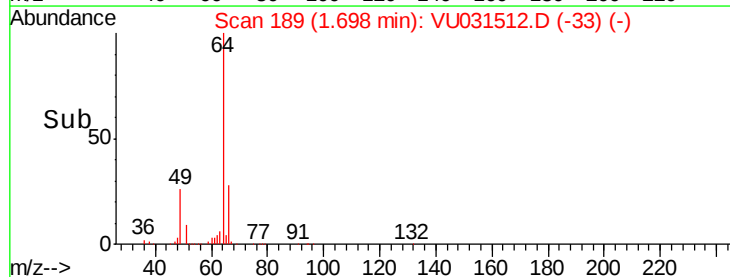
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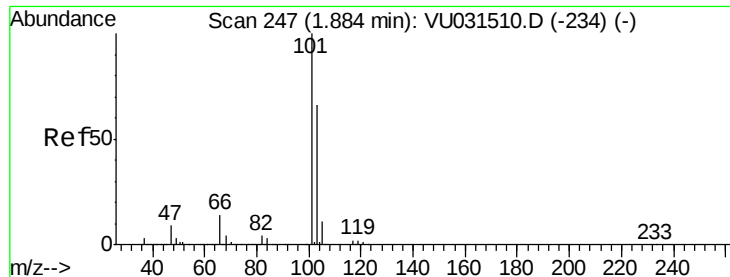
100000

50000

0

Time-->





#7

Trichlorofluoromethane

Concen: 9.431 ug/l

RT: 1.88 min Scan# 247

Delta R.T. 0.00 min

Lab File: VU031512.D

Acq: 25 Apr 2019 22:30

Instrument :

MSVOA_U

ClientSampleId :

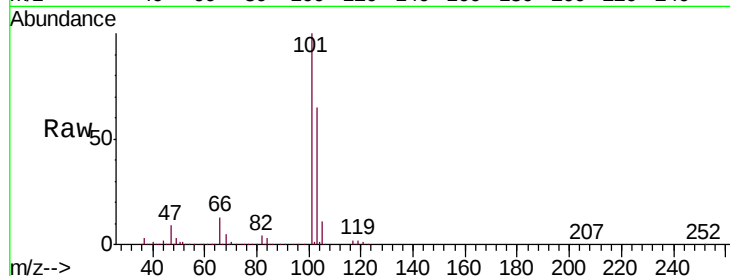
ICVVU042619

Tgt Ion:101 Resp: 426957

Ion Ratio Lower Upper

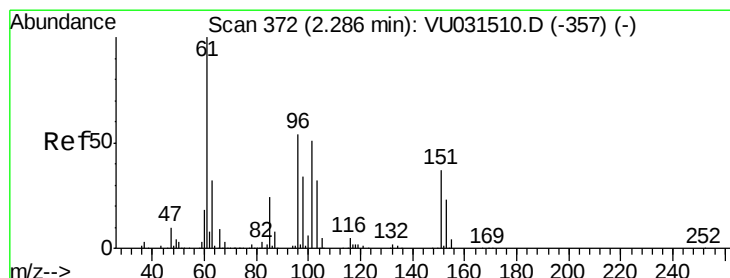
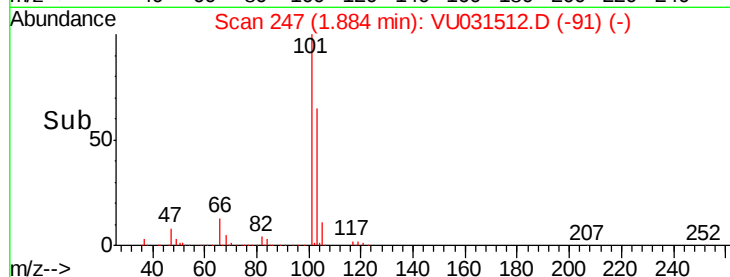
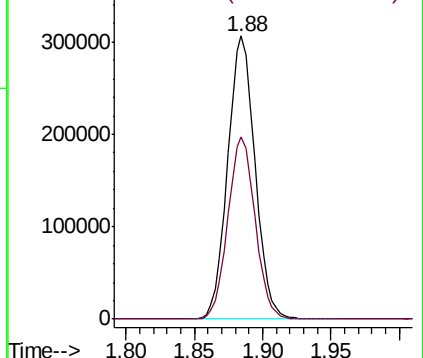
101 100

103 64.6 52.8 79.2



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#8

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 10.515 ug/l

RT: 2.29 min Scan# 372

Delta R.T. 0.00 min

Lab File: VU031512.D

Acq: 25 Apr 2019 22:30

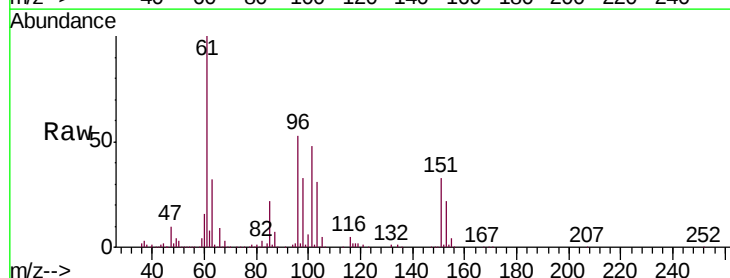
Tgt Ion:101 Resp: 234679

Ion Ratio Lower Upper

101 100

85 47.5 37.8 56.6

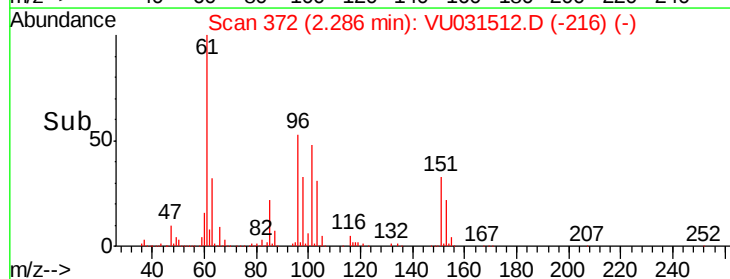
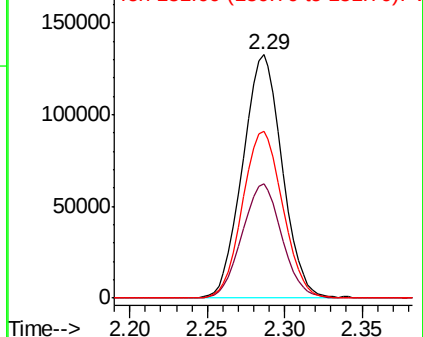
151 70.3 57.4 86.0

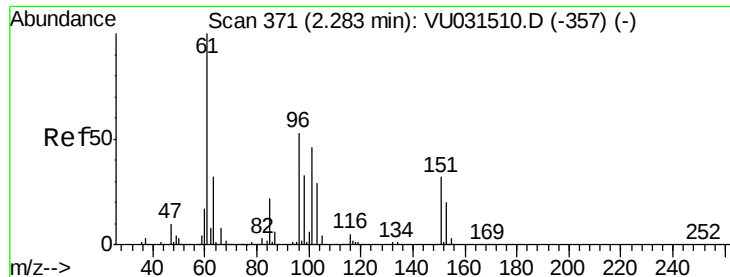


Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V





#9

1,1-Dichloroethene

Concen: 11.183 ug/l

RT: 2.28 min Scan# 371

Delta R.T. 0.00 min

Lab File: VU031512.D

Acq: 25 Apr 2019 22:30

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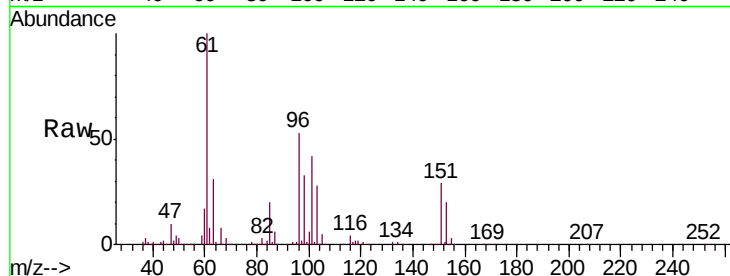
Tgt Ion: 96 Resp: 248164

Ion Ratio Lower Upper

96 100

61 187.9 0.0 566.7

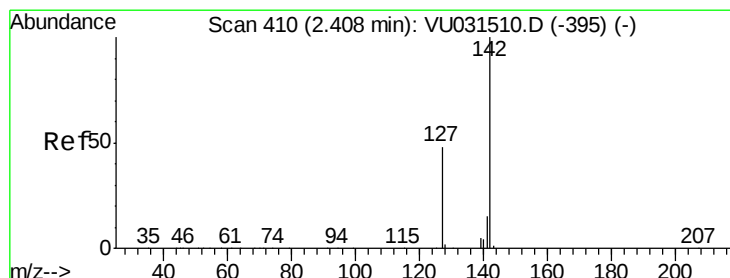
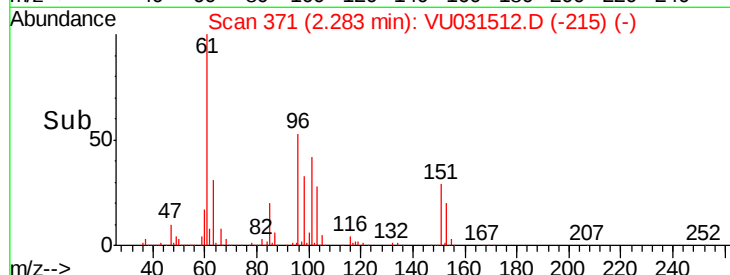
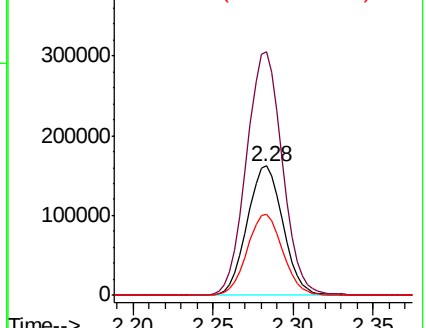
98 62.6 0.0 126.4



Abundance Ion 96.00 (95.70 to 96.70): VU031510.D (-357) (-)

Ion 61.00 (60.70 to 61.70): VU031510.D (-357) (-)

Ion 98.00 (97.70 to 98.70): VU031510.D (-357) (-)



#10

Iodomethane

Concen: 10.854 ug/l

RT: 2.41 min Scan# 410

Delta R.T. 0.00 min

Lab File: VU031512.D

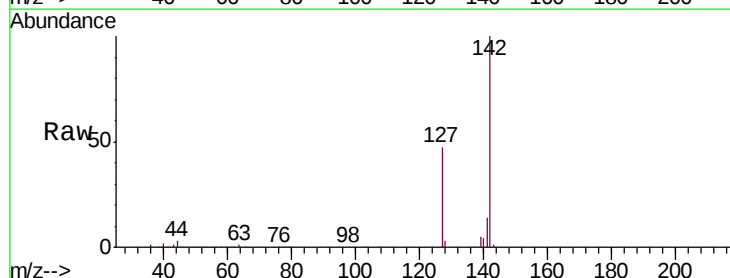
Acq: 25 Apr 2019 22:30

Tgt Ion: 142 Resp: 264969

Ion Ratio Lower Upper

142 100

127 46.8 38.2 57.2



Abundance Ion 142.00 (141.70 to 142.70): VU031510.D (-395) (-)

Ion 127.00 (126.70 to 127.70): VU031510.D (-395) (-)

