

Data File : VU027868.D
Acq On : 30 Oct 2018 11:52
Operator : MD/SY
Sample : VSTD01046
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD01046

Quant Time: Oct 31 01:46:36 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR103018WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Wed Oct 31 01:42:19 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.89	114	86090	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	83987	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	43200	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	70910	10.54	ug/L	0.00
7) Chloroethane-d5	1.68	69	53195	10.24	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.28	63	131722	10.31	ug/L	0.00
20) 2-Butanone-d5	4.20	46	209053	103.84	ug/L	0.00
24) Chloroform-d	4.65	84	124611	10.30	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.31	65	68723	9.88	ug/L	0.00
32) Benzene-d6	5.34	84	236981	10.30	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.33	67	82091	10.08	ug/L	0.00
41) Toluene-d8	7.57	98	220990	10.10	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.85	79	34324	10.89	ug/L	0.00
46) 2-Hexanone-d5	8.31	63	180736	104.86	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.43	84	60043	10.42	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.86	152	81181	9.82	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.21	85	86993	10.264 ug/L	97
3) Chloromethane	1.33	50	86816	10.329 ug/L	100
5) Vinyl chloride	1.40	62	86616	10.351 ug/L	97
6) Bromomethane	1.63	94	29743	10.818 ug/L	96
8) Chloroethane	1.70	64	48846	9.960 ug/L	99
9) Trichlorofluoromethane	1.89	101	113455	10.212 ug/L	98
10) 1,1,2-Trichloro-1,2,2-trif	2.29	101	59559	10.507 ug/L	99
12) 1,1-Dichloroethene	2.29	96	55314	10.345 ug/L	97
13) Acetone	2.34	43	124800	98.668 ug/L	98
14) Carbon disulfide	2.48	76	195046	10.212 ug/L	100
15) Methyl Acetate	2.63	43	31934	9.432 ug/L	97
16) Methylene chloride	2.71	84	60148	10.012 ug/L	97
17) Methyl tert-butyl Ether	3.01	73	163197	10.237 ug/L	99
18) trans-1,2-Dichloroethene	2.99	96	59032	10.385 ug/L	100
19) 1,1-Dichloroethane	3.45	63	122007	10.168 ug/L	99
21) 2-Butanone	4.29	43	223710	101.728 ug/L	100
22) cis-1,2-Dichloroethene	4.23	96	68063	10.360 ug/L	99
23) Bromochloromethane	4.55	128	28498	10.468 ug/L	99
25) Chloroform	4.68	83	124771	10.257 ug/L	96
27) 1,2-Dichloroethane	5.41	62	87177	10.269 ug/L	99
29) 1,1,1-Trichloroethane	4.92	97	109747	10.126 ug/L	98
30) Cyclohexane	5.00	56	130000	10.209 ug/L	100
31) Carbon tetrachloride	5.13	117	98630	10.604 ug/L	98
33) Benzene	5.39	78	270522	10.171 ug/L	100
34) Trichloroethene	6.19	95	71225	10.289 ug/L	98
35) Methylcyclohexane	6.42	83	121948	10.355 ug/L	98
37) 1,2-Dichloropropane	6.44	63	76523	10.100 ug/L	99
38) Bromodichloromethane	6.76	83	92314	10.421 ug/L	99
39) cis-1,3-Dichloropropene	7.27	75	113508	10.451 ug/L	98
40) 4-Methyl-2-pentanone	7.47	43	549986	102.745 ug/L	99

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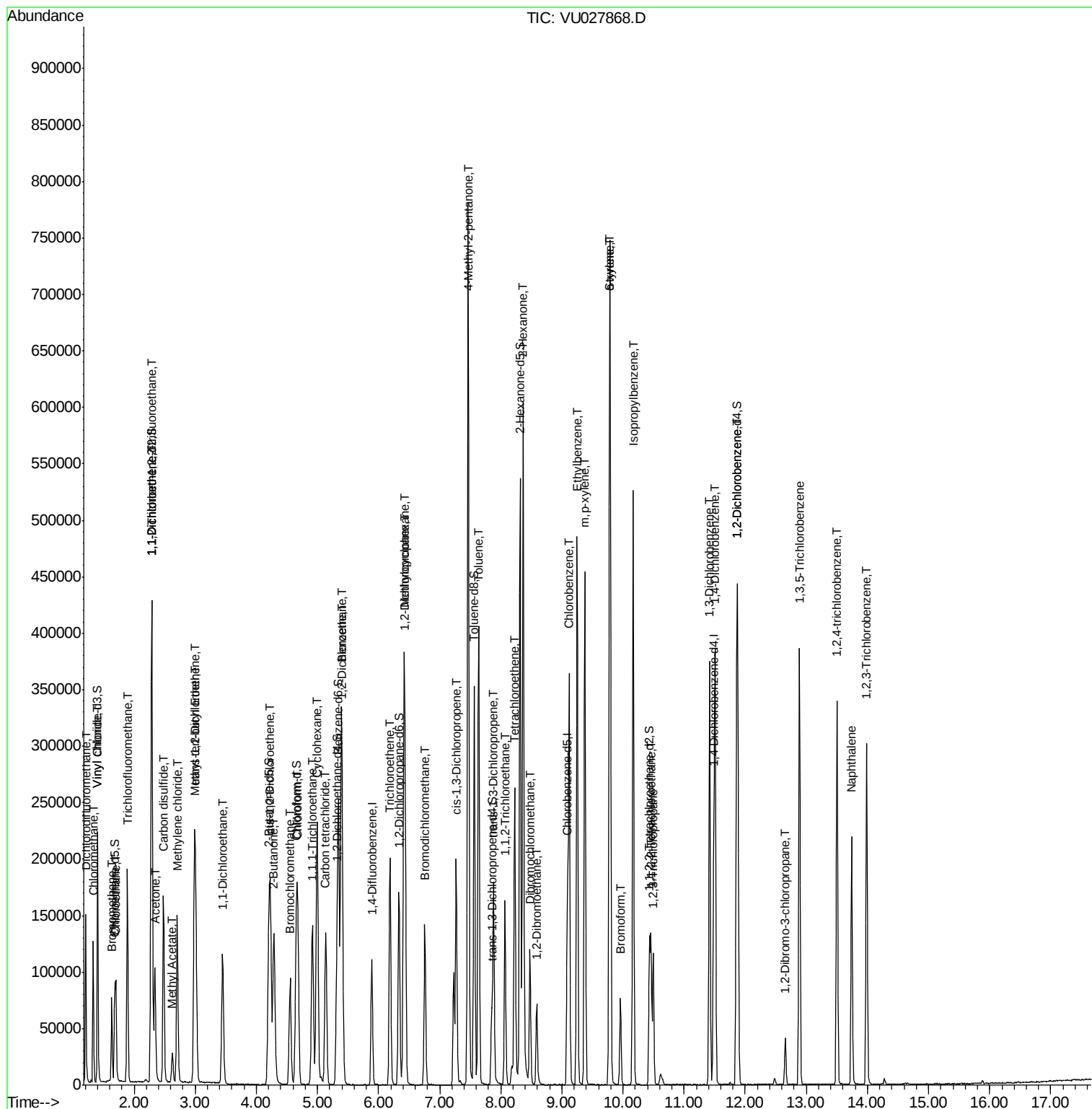
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.64	91	290501	10.440	ug/L	97
44) trans-1,3-Dichloropropene	7.88	75	95724	10.275	ug/L	94
45) 1,1,2-Trichloroethane	8.07	97	47152	10.117	ug/L	98
47) Tetrachloroethene	8.23	164	55728	10.478	ug/L	98
48) 2-Hexanone	8.37	43	396558	102.762	ug/L	97
49) Dibromochloromethane	8.48	129	59026	10.487	ug/L	99
50) 1,2-Dibromoethane	8.59	107	46150	10.349	ug/L	98
51) Chlorobenzene	9.12	112	175934	10.192	ug/L	98
52) Ethylbenzene	9.25	91	329357	10.380	ug/L	99
53) m,p-xylene	9.38	106	118298	10.283	ug/L	99
54) o-xylene	9.78	106	116593	10.318	ug/L	100
55) Styrene	9.79	104	200510	10.586	ug/L	99
56) Isopropylbenzene	10.17	105	323063	10.494	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.46	83	64206	10.564	ug/L	98
59) 1,2,3-Trichloropropane	10.49	75	47728	10.393	ug/L	97
61) Bromoform	9.96	173	34056	10.716	ug/L	99
62) 1,3-Dichlorobenzene	11.42	146	140569	10.117	ug/L	95
63) 1,4-Dichlorobenzene	11.51	146	142470	10.258	ug/L	97
65) 1,2-Dichlorobenzene	11.88	146	134312	10.238	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.66	75	10766	10.471	ug/L	94
67) 1,3,5-Trichlorobenzene	12.89	180	115967	10.371	ug/L	100
68) 1,2,4-trichlorobenzene	13.50	180	101745	10.699	ug/L	99
69) Naphthalene	13.74	128	161467	10.920	ug/L	99
70) 1,2,3-Trichlorobenzene	13.99	180	90731	10.476	ug/L	96

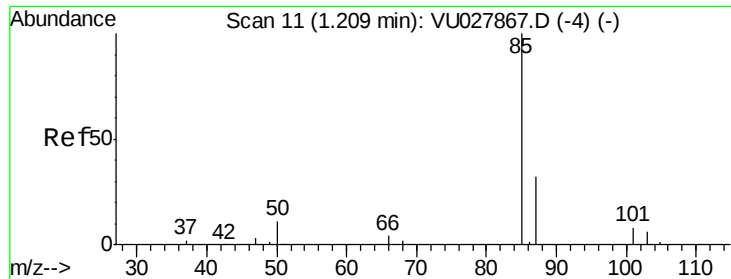
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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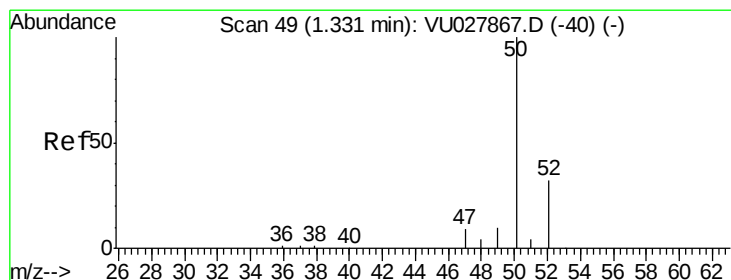
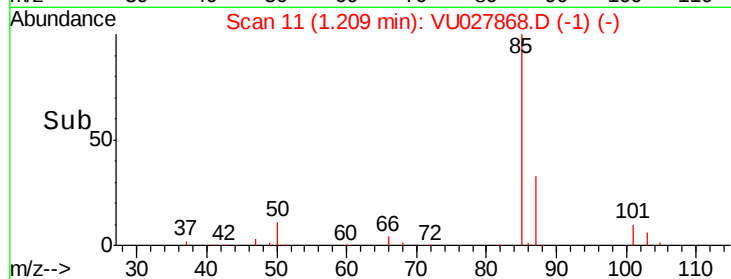
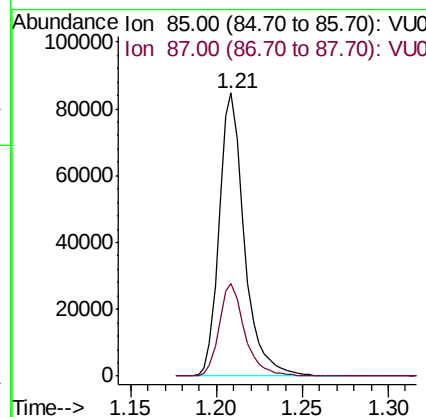
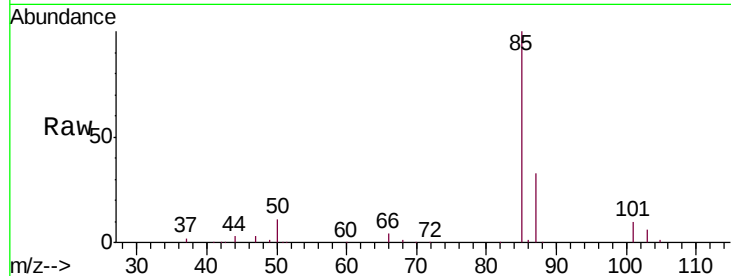




#2
 Dichlorodifluoromethane
 Concen: 10.264 ug/L
 RT: 1.21 min Scan# 11
 Delta R.T. -0.00 min
 Lab File: VU027868.D
 Acq: 30 Oct 2018 11:52

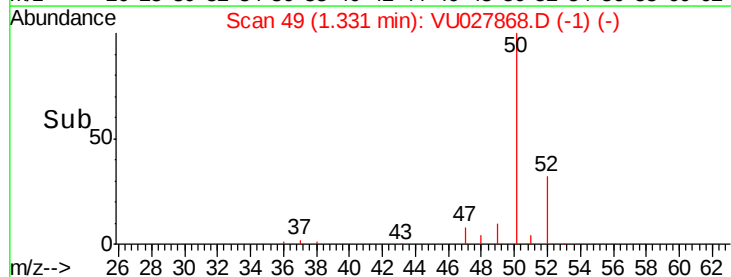
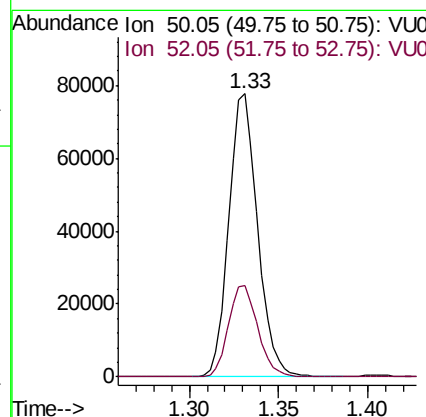
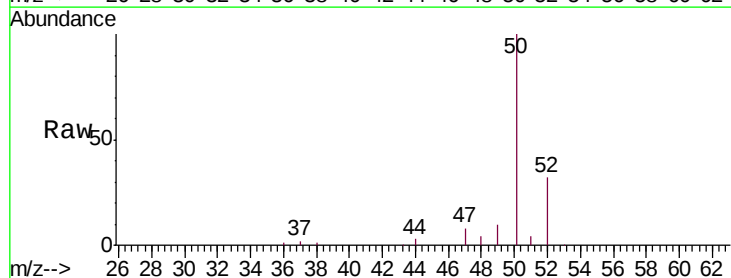
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD01046

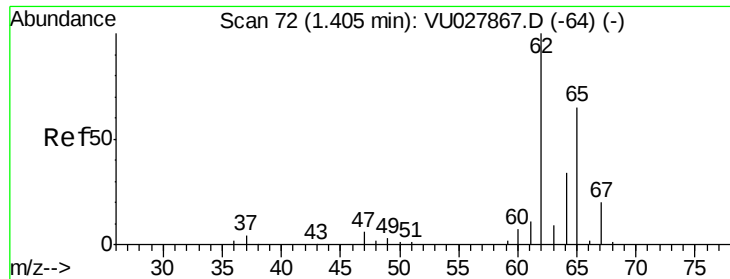
Tgt Ion: 85 Resp: 86993
 Ion Ratio Lower Upper
 85 100
 87 33.2 25.2 37.8



#3
 Chloromethane
 Concen: 10.329 ug/L
 RT: 1.33 min Scan# 49
 Delta R.T. -0.00 min
 Lab File: VU027868.D
 Acq: 30 Oct 2018 11:52

Tgt Ion: 50 Resp: 86816
 Ion Ratio Lower Upper
 50 100
 52 32.1 22.3 41.5





#5

Vinyl chloride

Concen: 10.351 ug/L

RT: 1.40 min Scan# 72

Delta R.T. -0.00 min

Lab File: VU027868.D

Acq: 30 Oct 2018 11:52

Instrument :

MSVOA_U

ClientSampleId :

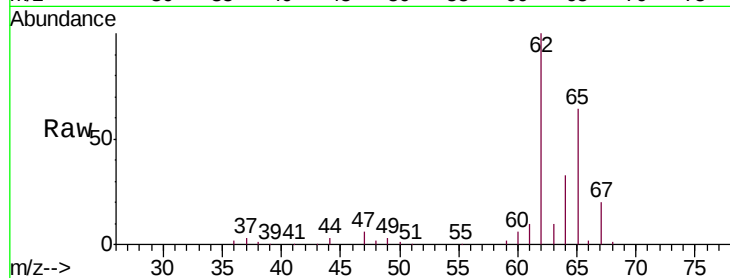
VSTD01046

Tgt Ion: 62 Resp: 86616

Ion Ratio Lower Upper

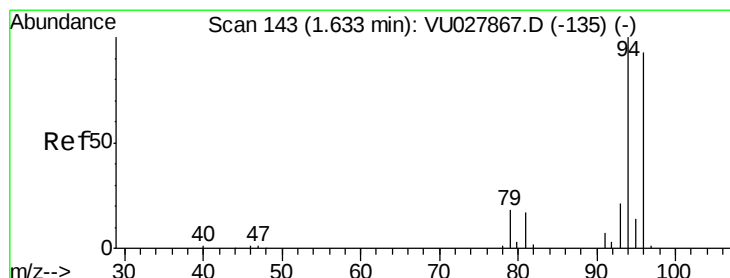
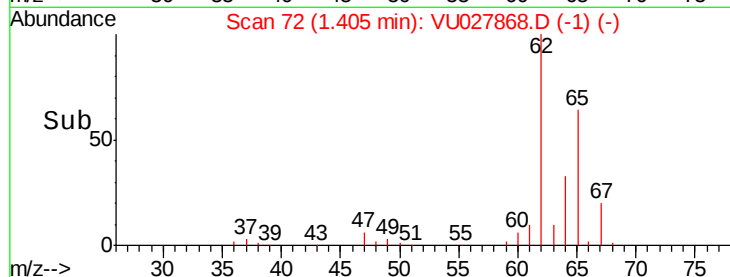
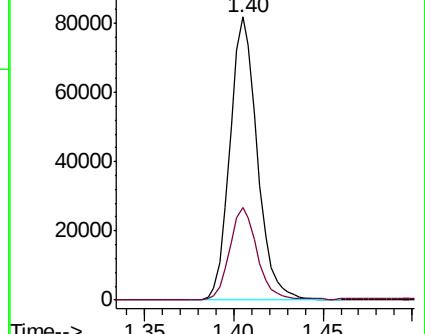
62 100

64 32.6 24.0 44.6



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.10 (63.80 to 64.80): VU0



#6

Bromomethane

Concen: 10.818 ug/L

RT: 1.63 min Scan# 143

Delta R.T. -0.00 min

Lab File: VU027868.D

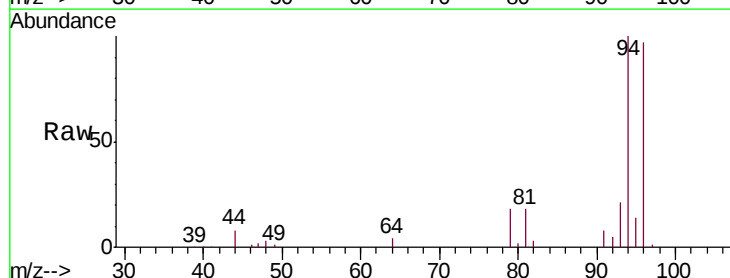
Acq: 30 Oct 2018 11:52

Tgt Ion: 94 Resp: 29743

Ion Ratio Lower Upper

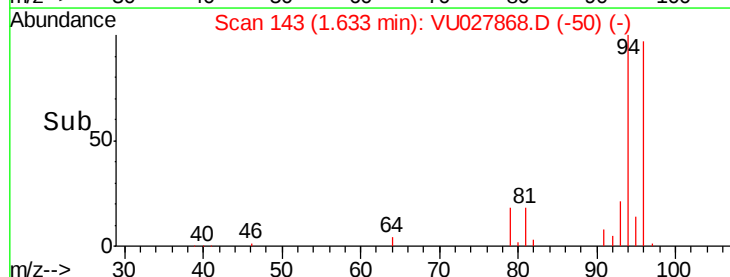
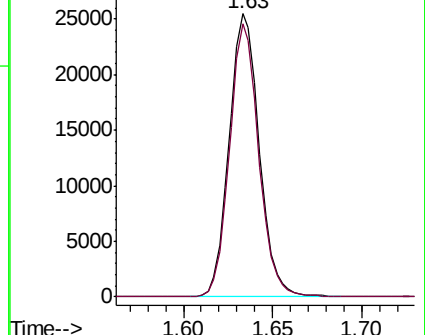
94 100

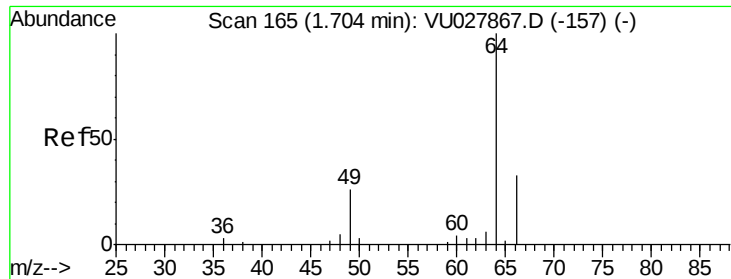
96 96.5 65.0 120.6



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0

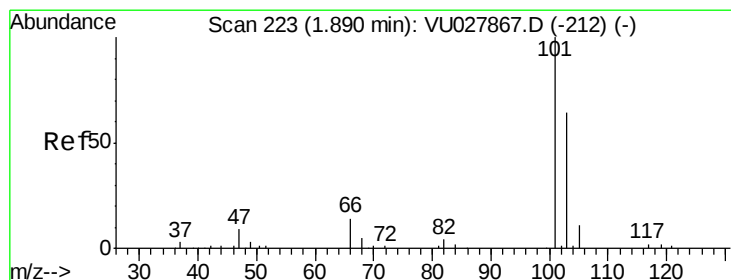
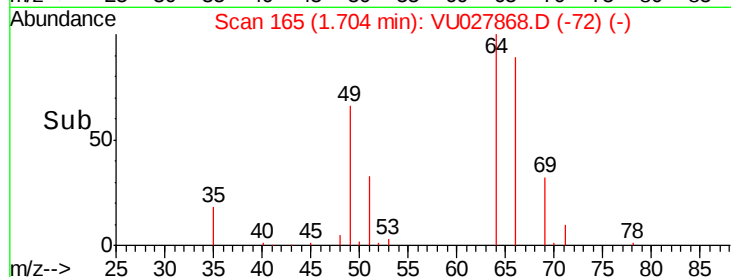
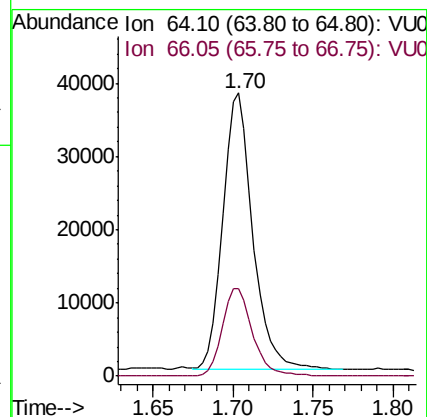
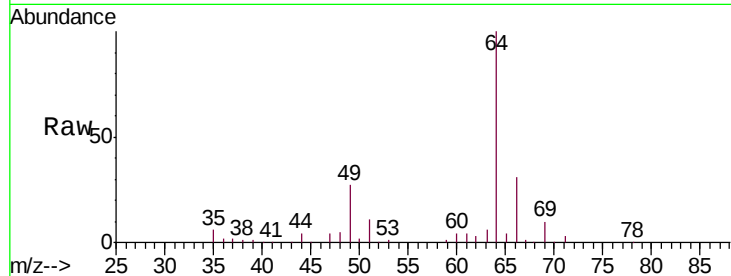




#8
Chloroethane
Concen: 9.960 ug/L
RT: 1.70 min Scan# 165
Delta R.T. -0.00 min
Lab File: VU027868.D
Acq: 30 Oct 2018 11:52

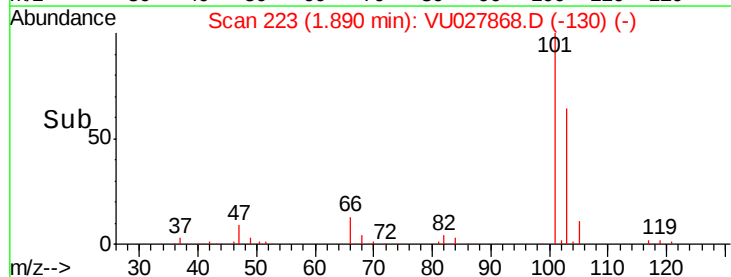
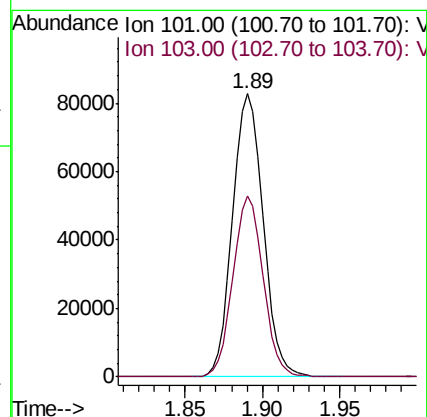
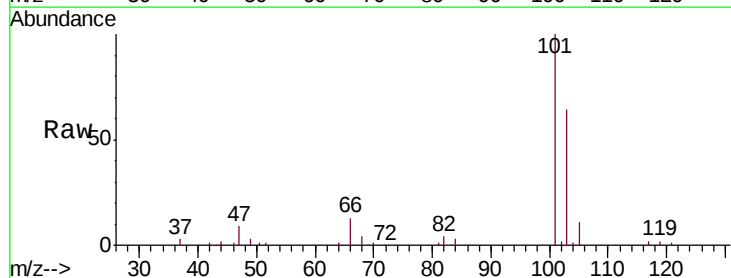
Instrument :
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VSTD01046

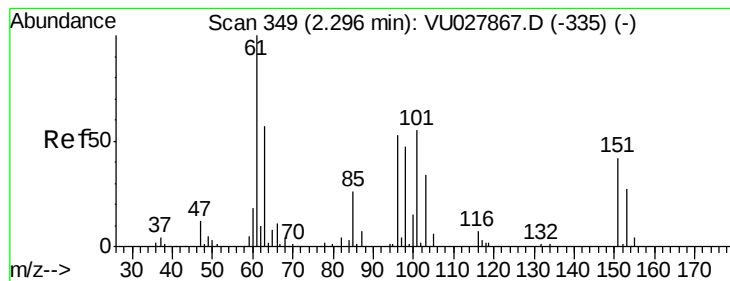
Tgt Ion: 64 Resp: 48846
Ion Ratio Lower Upper
64 100
66 30.9 21.8 40.6



#9
Trichlorofluoromethane
Concen: 10.212 ug/L
RT: 1.89 min Scan# 223
Delta R.T. -0.00 min
Lab File: VU027868.D
Acq: 30 Oct 2018 11:52

Tgt Ion: 101 Resp: 113455
Ion Ratio Lower Upper
101 100
103 63.0 51.4 77.0





#10

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

Concen: 10.507 ug/L

RT: 2.29 min Scan# 348

Delta R.T. -0.00 min

Lab File: VU027868.D

Acq: 30 Oct 2018 11:52

Instrument :

MSVOA_U

ClientSampleId :

VSTD01046

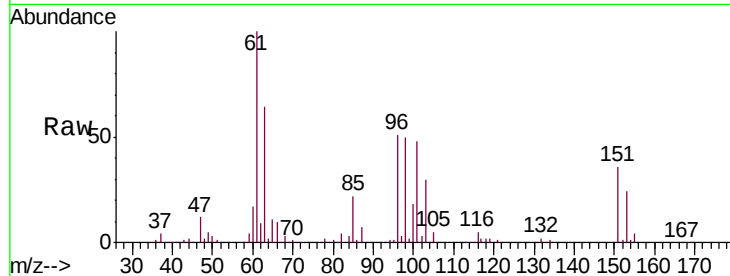
Tgt Ion: 101 Resp: 59559

Ion Ratio Lower Upper

101 100

85 45.9 37.1 55.7

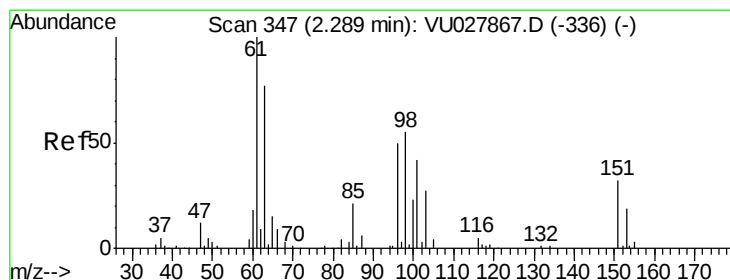
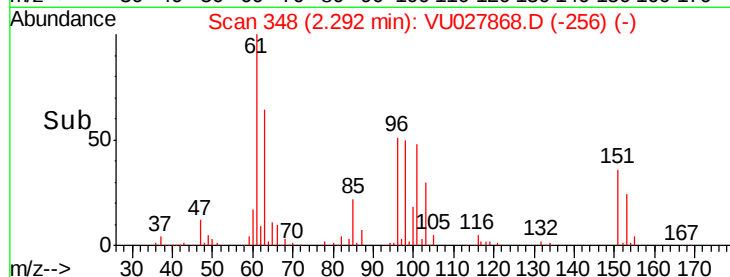
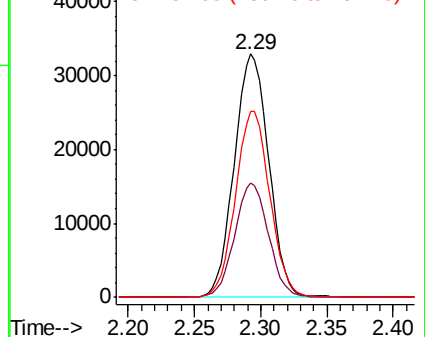
151 76.4 59.9 89.9



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



#12

1,1-Dichloroethene

Concen: 10.345 ug/L

RT: 2.29 min Scan# 347

Delta R.T. -0.00 min

Lab File: VU027868.D

Acq: 30 Oct 2018 11:52

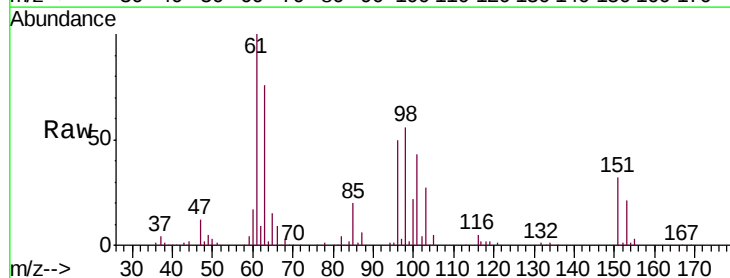
Tgt Ion: 96 Resp: 55314

Ion Ratio Lower Upper

96 100

61 201.0 141.1 262.1

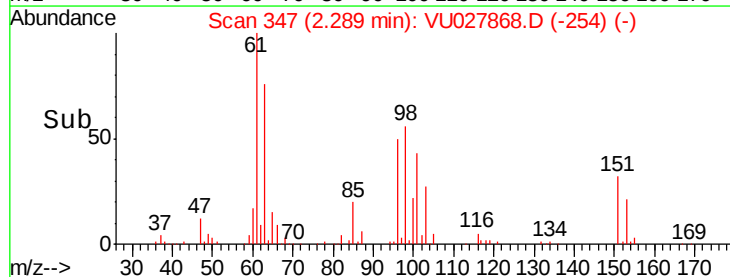
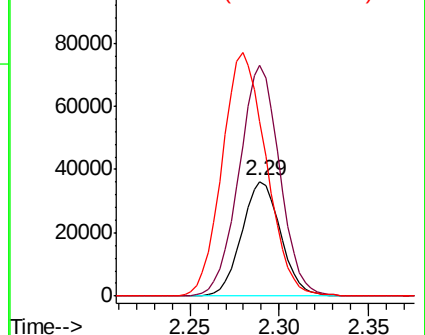
63 152.1 113.0 209.9

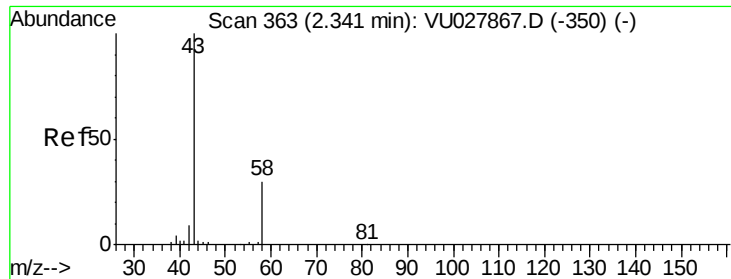


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 98.668 ug/L

RT: 2.34 min Scan# 363

Delta R.T. -0.00 min

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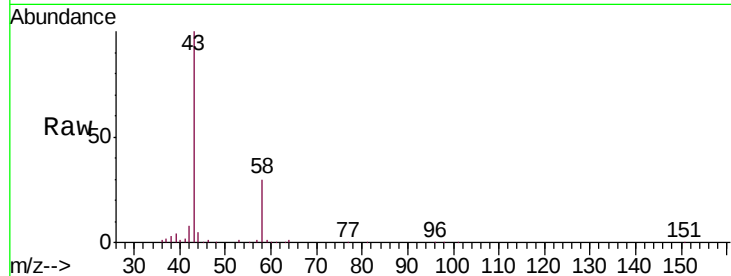
VSTD01046

Tgt Ion: 43 Resp: 124800

Ion Ratio Lower Upper

43 100

58 29.5 0.0 61.4



Abundance Ion 43.05 (42.75 to 43.75): VU027867.D (-350) (-)

Ion 58.05 (57.75 to 58.75): VU027867.D (-350) (-)

2.34

60000

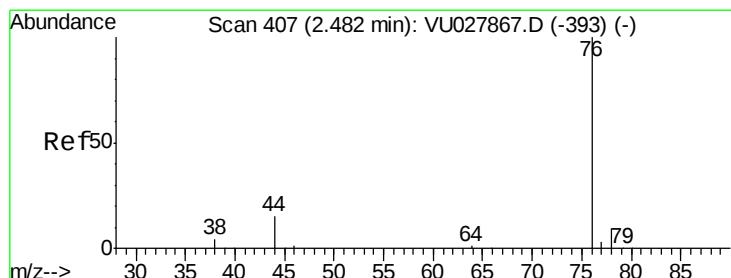
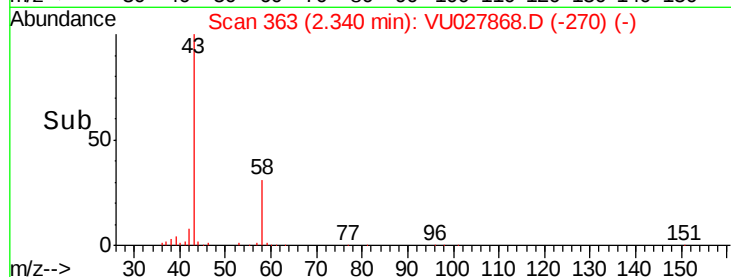
40000

20000

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Time-->

2.20 2.30 2.40



#14

Carbon disulfide

Concen: 10.212 ug/L

RT: 2.48 min Scan# 407

Delta R.T. -0.00 min

Lab File: VU027868.D

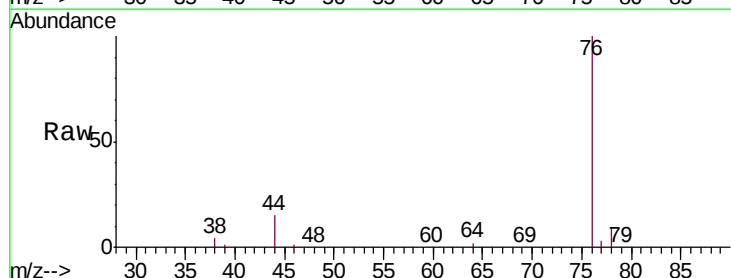
Acq: 30 Oct 2018 11:52

Tgt Ion: 76 Resp: 195046

Ion Ratio Lower Upper

76 100

78 9.3 7.5 11.3



Abundance Ion 76.05 (75.75 to 76.75): VU027867.D (-393) (-)

Ion 78.00 (77.70 to 78.70): VU027867.D (-393) (-)

2.48

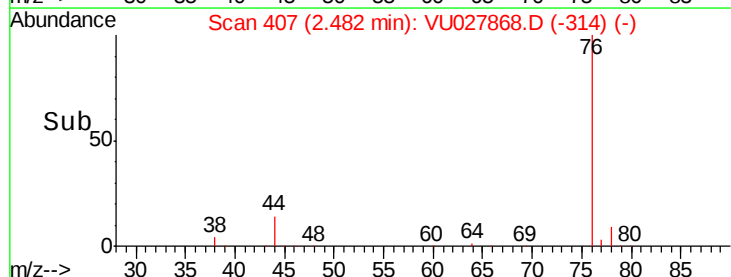
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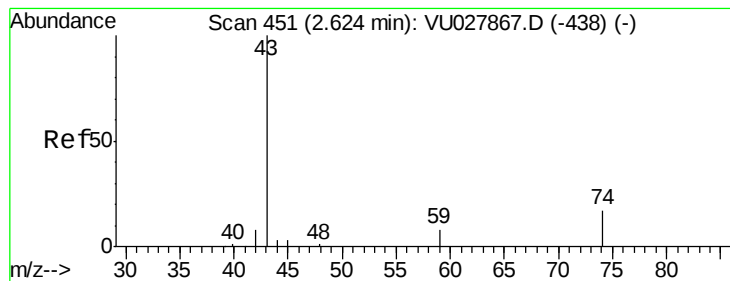
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Time-->

2.40 2.45 2.50 2.55





#15

Methyl Acetate

Concen: 9.432 ug/L

RT: 2.63 min Scan# 452

Delta R.T. 0.00 min

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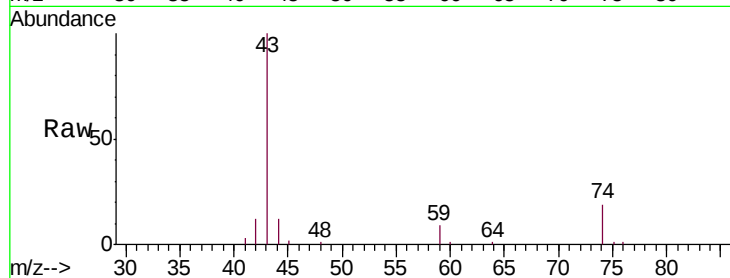
VSTD01046

Tgt Ion: 43 Resp: 31934

Ion Ratio Lower Upper

43 100

74 19.8 14.9 22.3



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 74.05 (73.75 to 74.75): VU0

2.63

20000

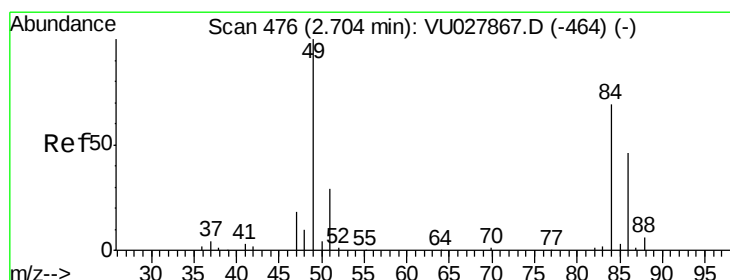
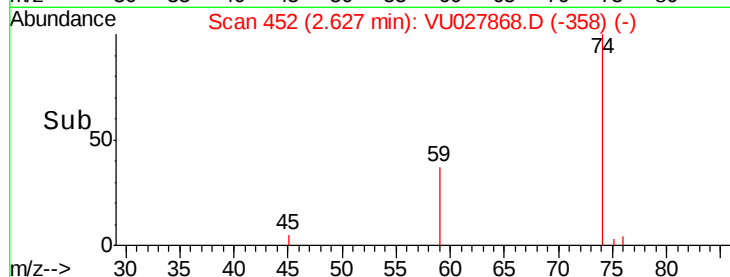
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10000

5000

0

Time-->



#16

Methylene chloride

Concen: 10.012 ug/L

RT: 2.71 min Scan# 477

Delta R.T. 0.00 min

Lab File: VU027868.D

Acq: 30 Oct 2018 11:52

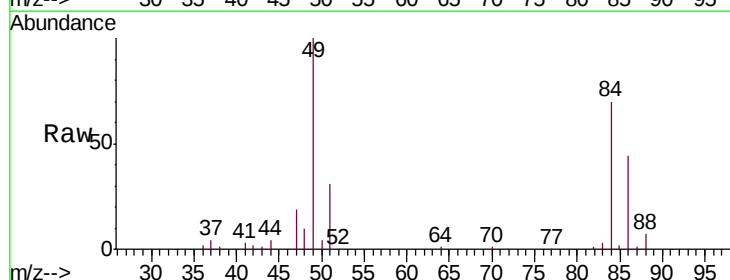
Tgt Ion: 84 Resp: 60148

Ion Ratio Lower Upper

84 100

86 62.3 46.7 86.7

49 141.9 101.3 188.1



Abundance Ion 84.05 (83.75 to 84.75): VU0

Ion 86.00 (85.70 to 86.70): VU0

Ion 49.10 (48.80 to 49.80): VU0

60000

50000

40000

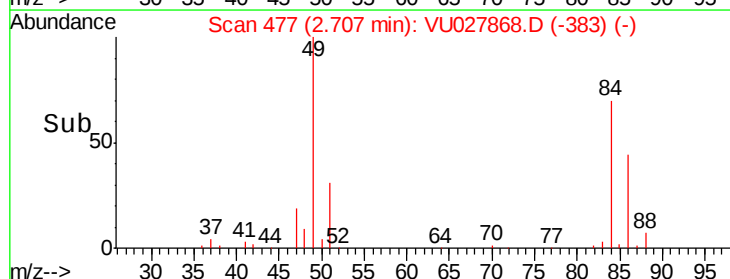
30000

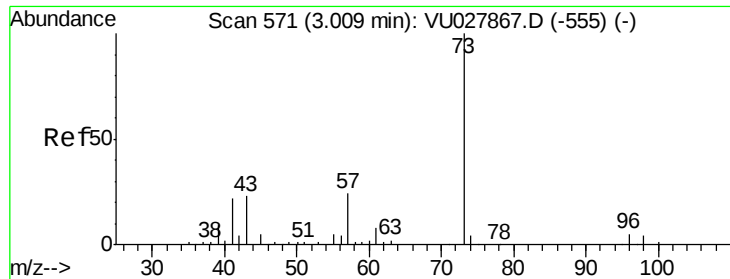
20000

10000

0

Time-->

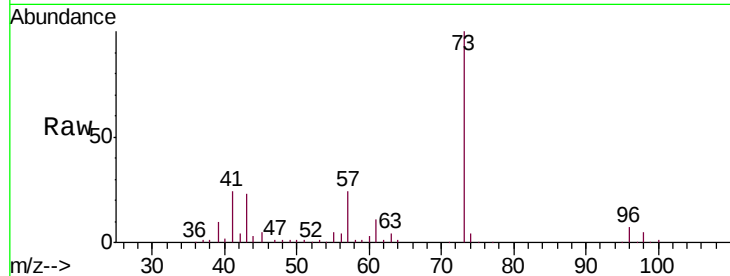




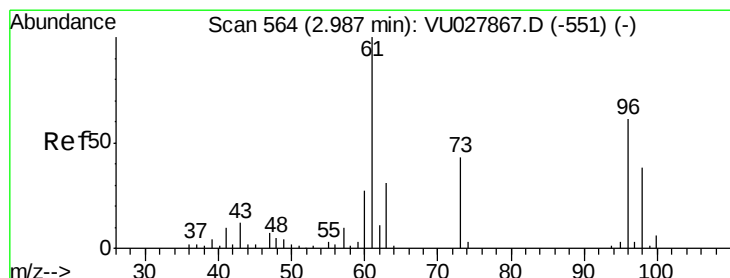
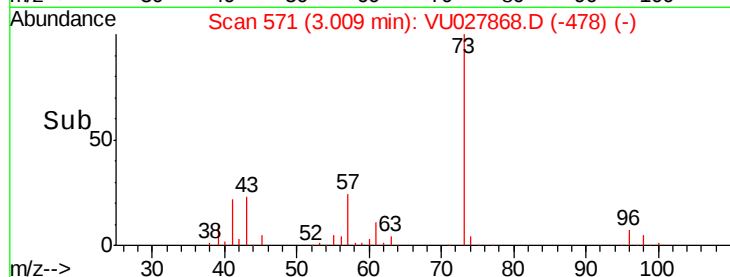
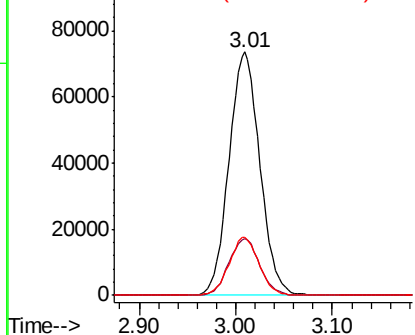
#17
Methyl tert-butyl Ether
Concen: 10.237 ug/L
RT: 3.01 min Scan# 571
Delta R.T. -0.00 min
Lab File: VU027868.D
Acq: 30 Oct 2018 11:52

Instrument :
MSVOA_U
ClientSampleId :
VSTD01046

Tgt Ion: 73 Resp: 163197
Ion Ratio Lower Upper
73 100
43 22.5 18.7 28.1
57 23.1 18.7 28.1

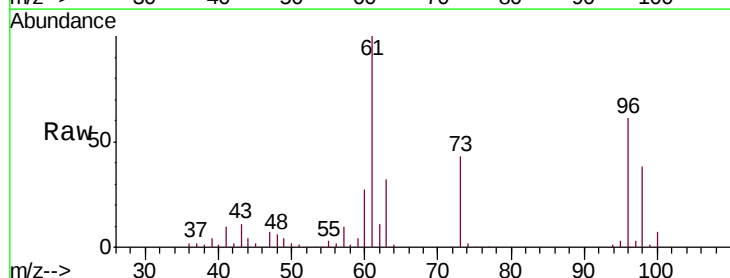


Abundance Ion 73.10 (72.80 to 73.80): VU0
Ion 43.05 (42.75 to 43.75): VU0
Ion 57.10 (56.80 to 57.80): VU0

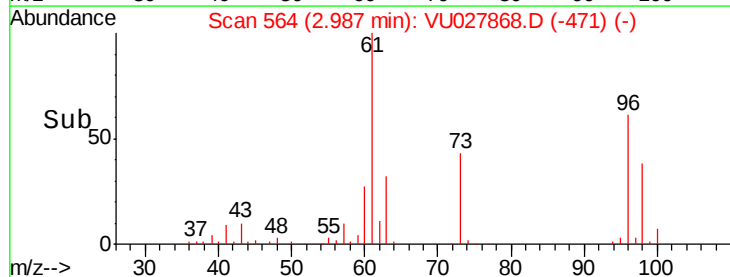
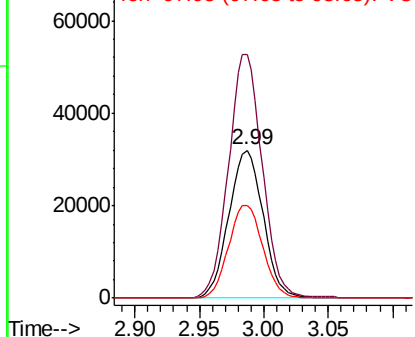


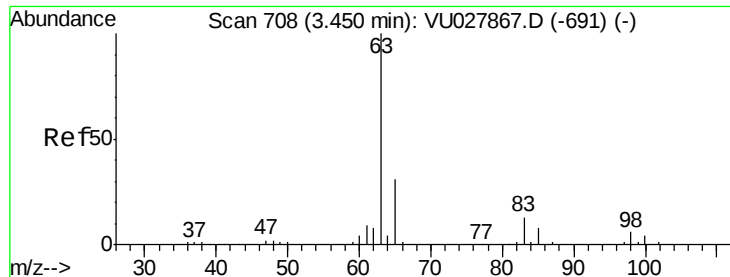
#18
trans-1,2-Dichloroethene
Concen: 10.385 ug/L
RT: 2.99 min Scan# 564
Delta R.T. -0.00 min
Lab File: VU027868.D
Acq: 30 Oct 2018 11:52

Tgt Ion: 96 Resp: 59032
Ion Ratio Lower Upper
96 100
61 164.6 115.2 214.0
98 62.8 44.0 81.8



Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.05 (60.75 to 61.75): VU0
Ion 97.95 (97.65 to 98.65): VU0

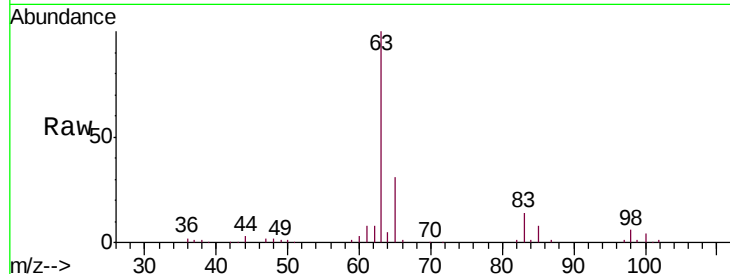




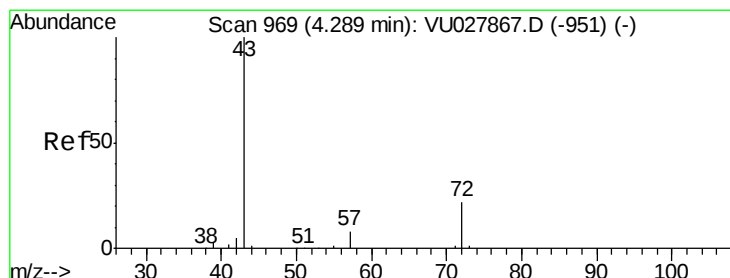
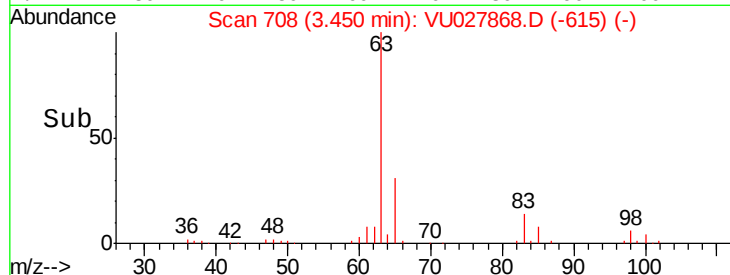
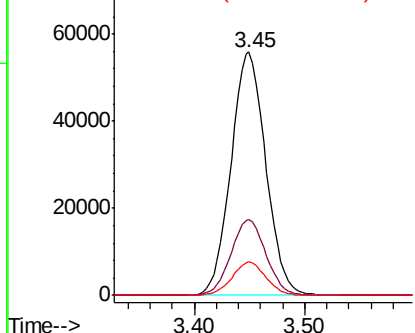
#19
 1,1-Dichloroethane
 Concen: 10.168 ug/L
 RT: 3.45 min Scan# 708
 Delta R.T. -0.00 min
 Lab File: VU027868.D
 Acq: 30 Oct 2018 11:52

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD01046

Tgt Ion: 63 Resp: 122007
 Ion Ratio Lower Upper
 63 100
 65 31.5 21.8 40.4
 83 13.7 9.4 17.4

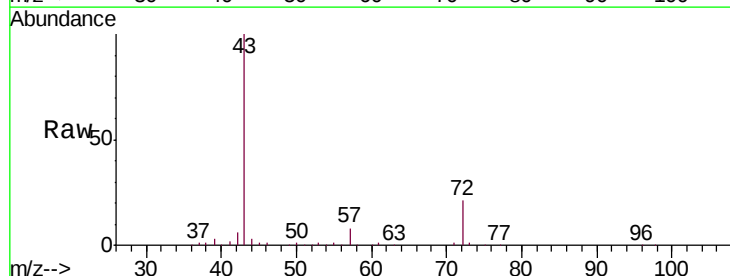


Abundance Ion 63.10 (62.80 to 63.80): VU0
 Ion 65.10 (64.80 to 65.80): VU0
 Ion 83.05 (82.75 to 83.75): VU0

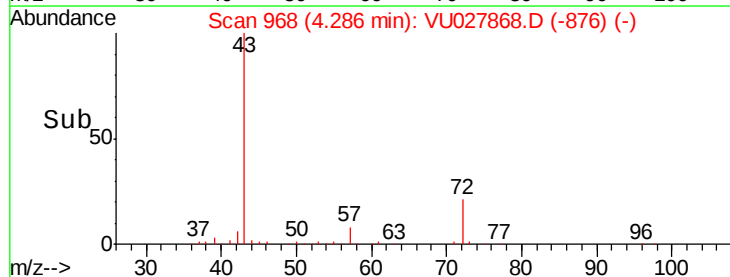
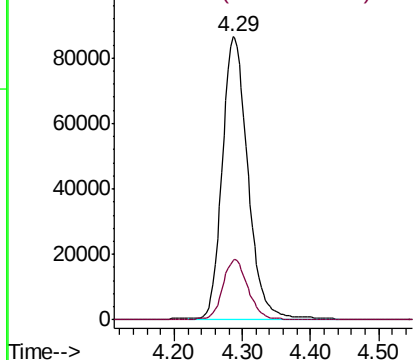


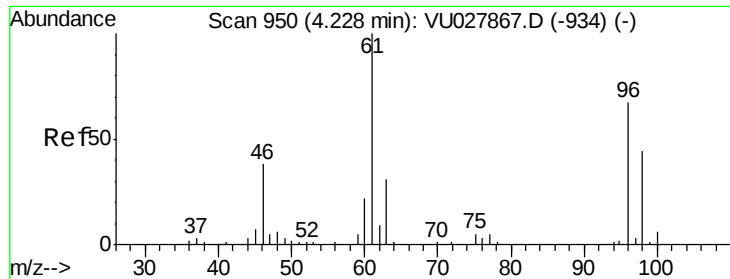
#21
 2-Butanone
 Concen: 101.728 ug/L
 RT: 4.29 min Scan# 968
 Delta R.T. -0.00 min
 Lab File: VU027868.D
 Acq: 30 Oct 2018 11:52

Tgt Ion: 43 Resp: 223710
 Ion Ratio Lower Upper
 43 100
 72 21.7 10.9 32.9



Abundance Ion 43.05 (42.75 to 43.75): VU0
 Ion 72.10 (71.80 to 72.80): VU0



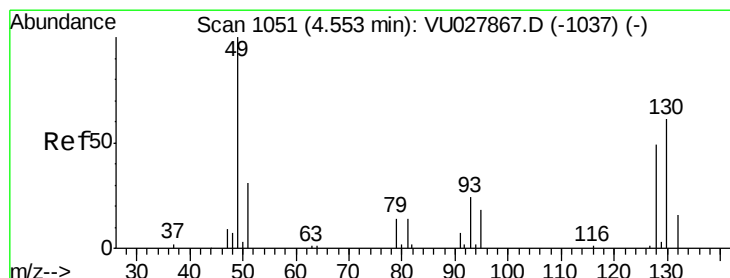
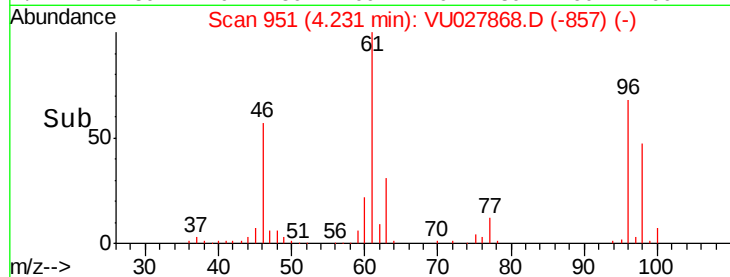
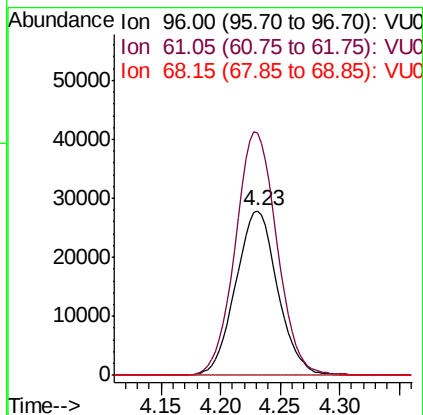
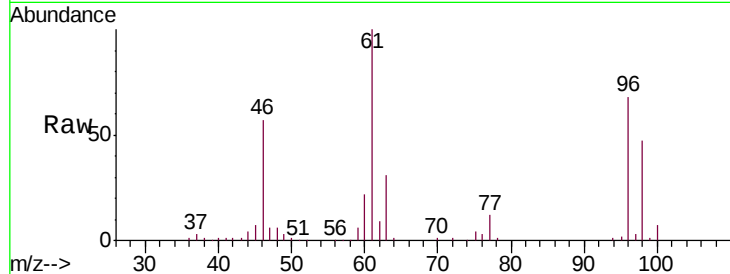


#22

cis-1,2-Dichloroethene
 Concen: 10.360 ug/L
 RT: 4.23 min Scan# 951
 Delta R.T. 0.00 min
 Lab File: VU027868.D
 Acq: 30 Oct 2018 11:52

Instrument :
 MSVOA_U
 ClientSampled :
 VSTD01046

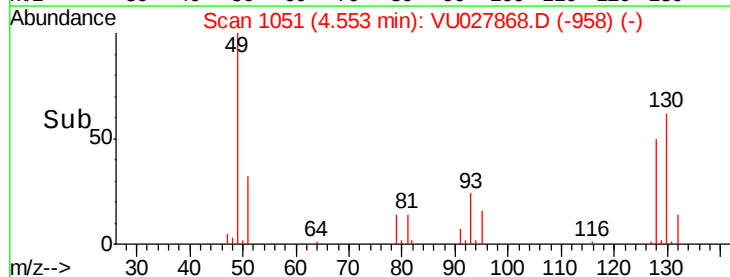
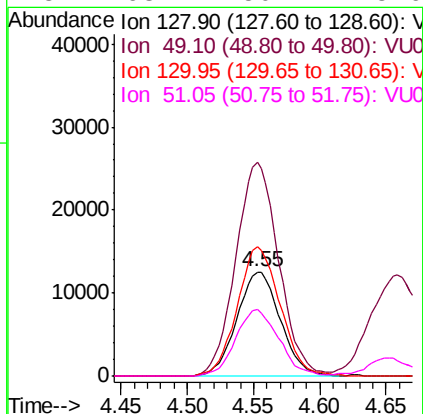
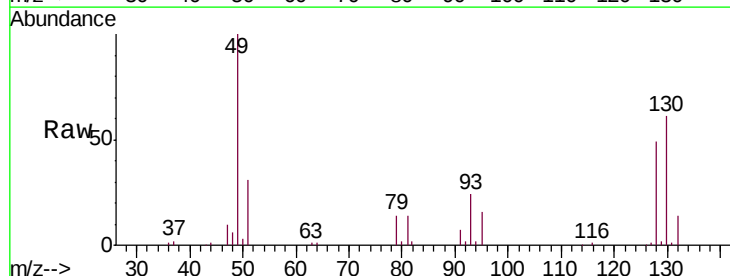
Tgt Ion: 96 Resp: 68063
 Ion Ratio Lower Upper
 96 100
 61 147.1 104.0 193.2
 68 0.0 0.0 0.0

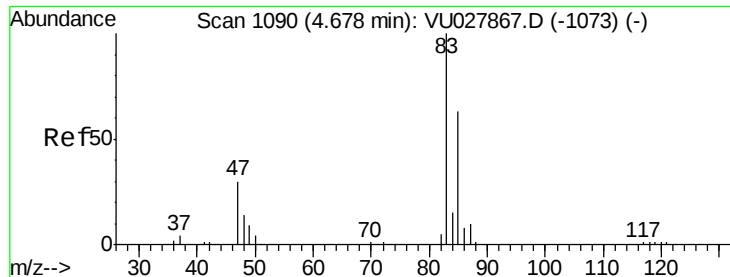


#23

Bromochloromethane
 Concen: 10.468 ug/L
 RT: 4.55 min Scan# 1051
 Delta R.T. -0.00 min
 Lab File: VU027868.D
 Acq: 30 Oct 2018 11:52

Tgt Ion: 128 Resp: 28498
 Ion Ratio Lower Upper
 128 100
 49 205.5 142.0 263.8
 130 124.4 86.1 159.9
 51 63.7 50.4 75.6

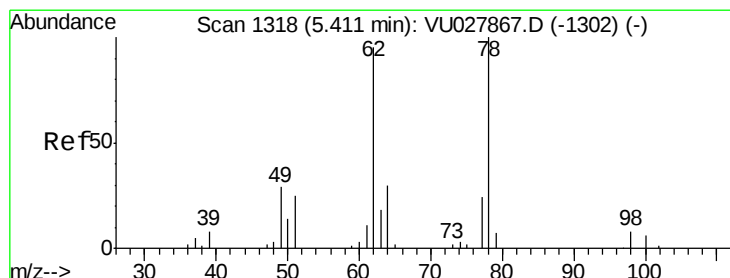
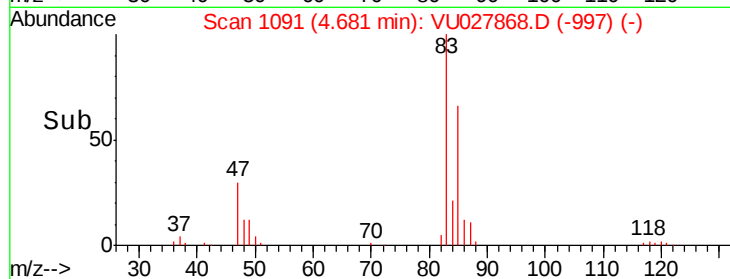
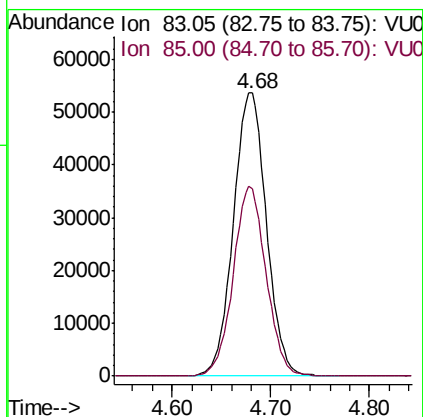
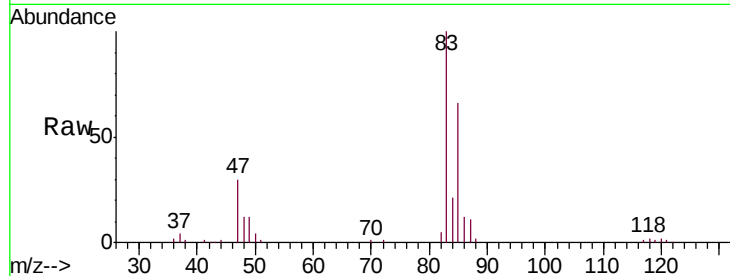




#25
Chloroform
Concen: 10.257 ug/L
RT: 4.68 min Scan# 1091
Delta R.T. 0.00 min
Lab File: VU027868.D
Acq: 30 Oct 2018 11:52

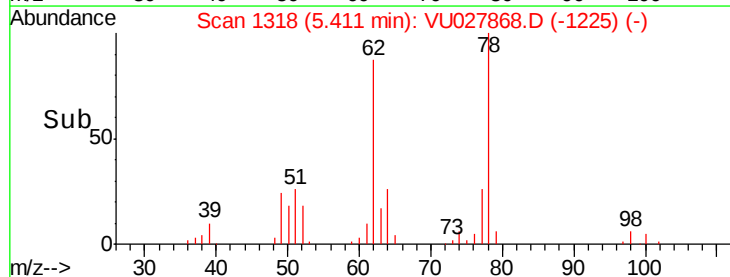
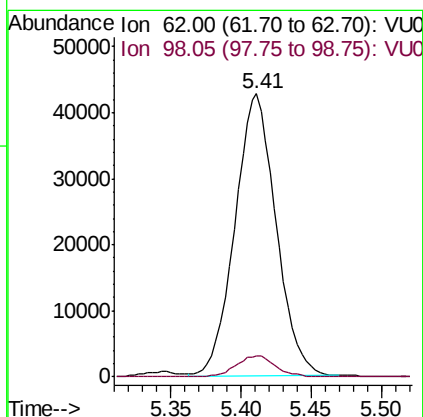
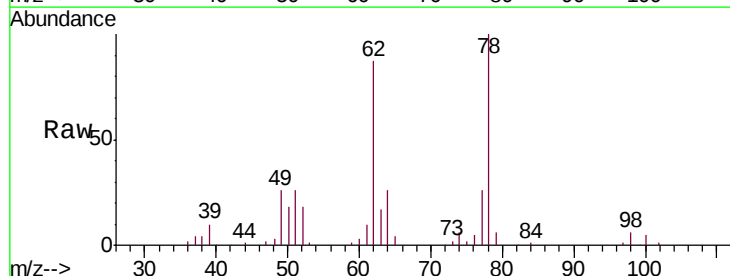
Instrument :
MSVOA_U
ClientSampleId :
VSTD01046

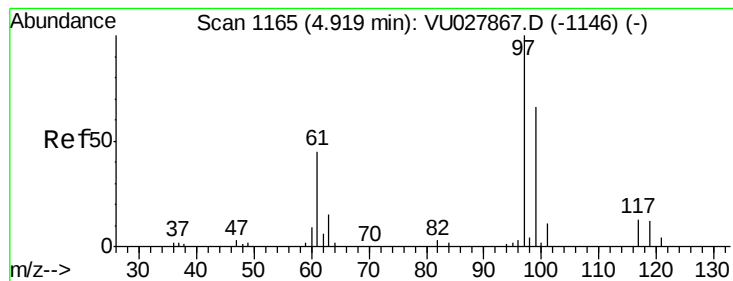
Tgt Ion: 83 Resp: 124771
Ion Ratio Lower Upper
83 100
85 66.0 44.0 81.8



#27
1,2-Dichloroethane
Concen: 10.269 ug/L
RT: 5.41 min Scan# 1318
Delta R.T. -0.00 min
Lab File: VU027868.D
Acq: 30 Oct 2018 11:52

Tgt Ion: 62 Resp: 87177
Ion Ratio Lower Upper
62 100
98 7.4 6.3 9.5





#29

1,1,1-Trichloroethane

Concen: 10.126 ug/L

RT: 4.92 min Scan# 1164

Delta R.T. -0.00 min

Lab File: VU027868.D

Acq: 30 Oct 2018 11:52

Instrument :

MSVOA_U

ClientSampleId :

VSTD01046

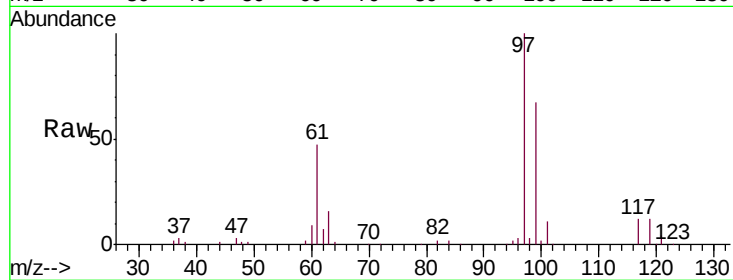
Tgt Ion: 97 Resp: 109747

Ion Ratio Lower Upper

97 100

99 65.6 50.6 76.0

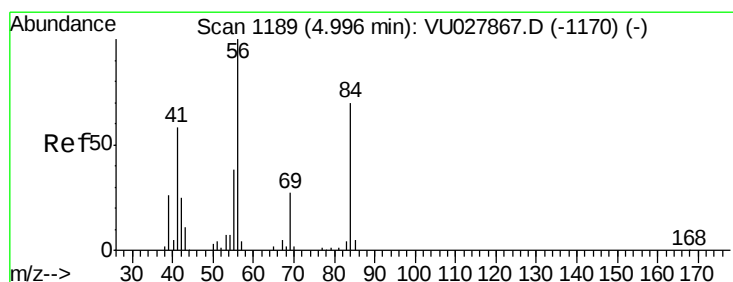
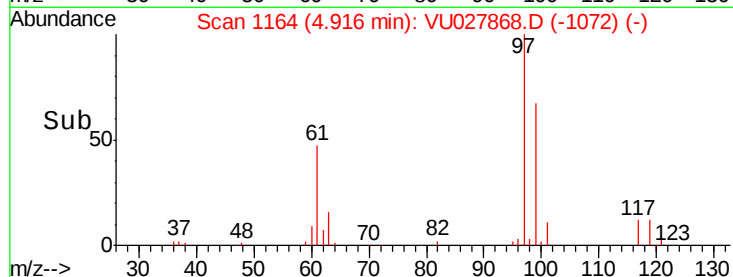
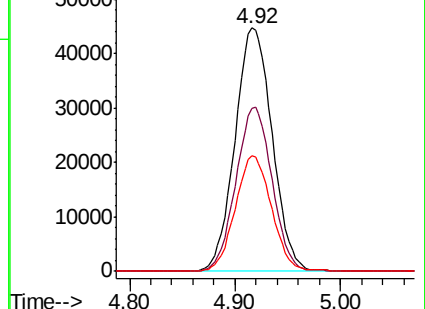
61 45.9 35.8 53.6



Abundance Ion 96.95 (96.65 to 97.65): VU0

Ion 99.05 (98.75 to 99.75): VU0

Ion 61.05 (60.75 to 61.75): VU0



#30

Cyclohexane

Concen: 10.209 ug/L

RT: 5.00 min Scan# 1189

Delta R.T. -0.00 min

Lab File: VU027868.D

Acq: 30 Oct 2018 11:52

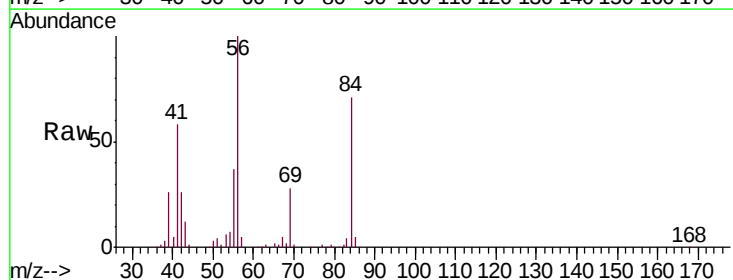
Tgt Ion: 56 Resp: 130000

Ion Ratio Lower Upper

56 100

69 27.9 22.7 34.1

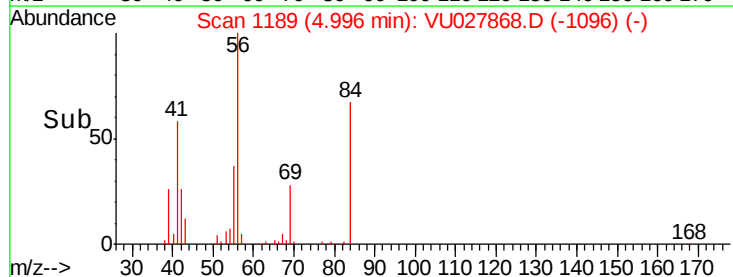
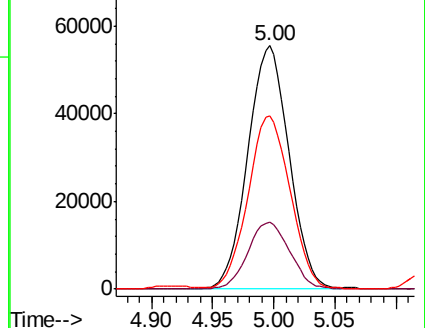
84 72.8 58.1 87.1

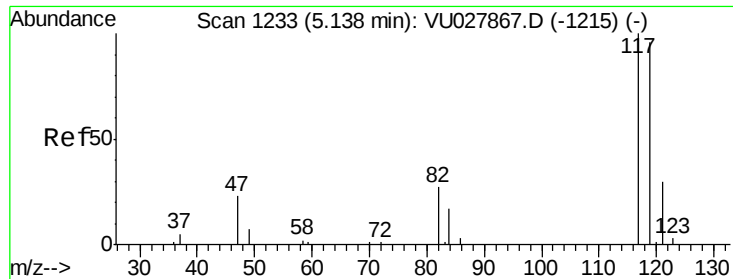


Abundance Ion 56.10 (55.80 to 56.80): VU0

Ion 69.15 (68.85 to 69.85): VU0

Ion 84.15 (83.85 to 84.85): VU0

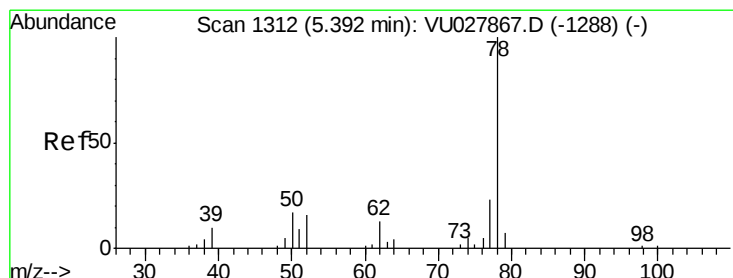
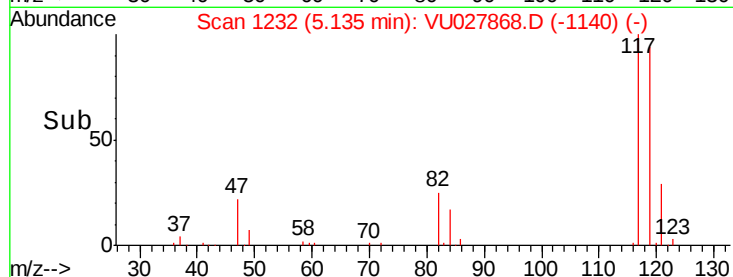
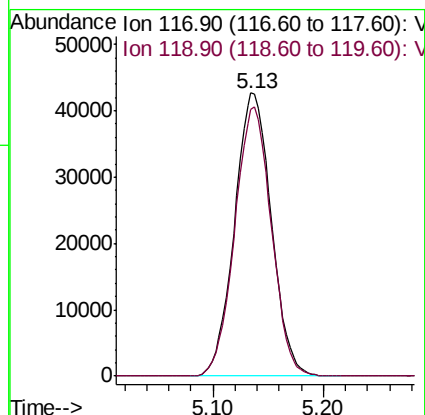
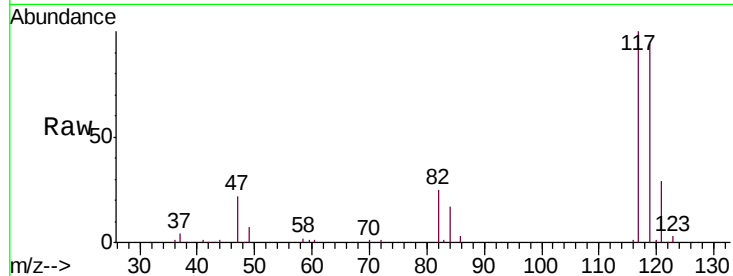




#31
Carbon tetrachloride
Concen: 10.604 ug/L
RT: 5.13 min Scan# 1232
Delta R.T. -0.00 min
Lab File: VU027868.D
Acq: 30 Oct 2018 11:52

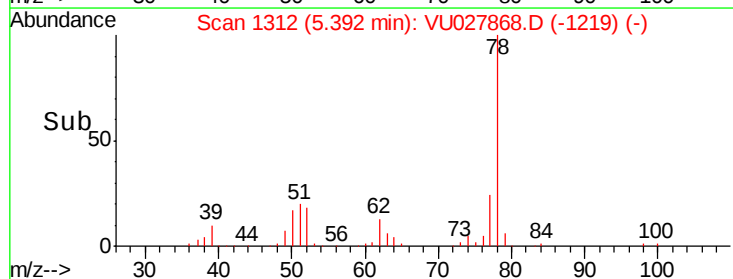
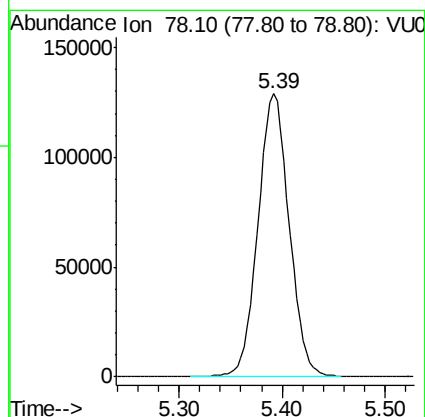
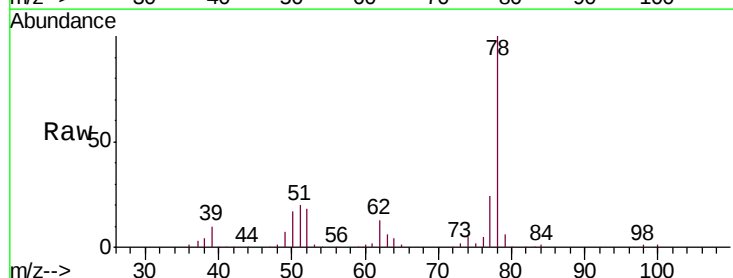
Instrument :
MSVOA_U
ClientSampleId :
VSTD01046

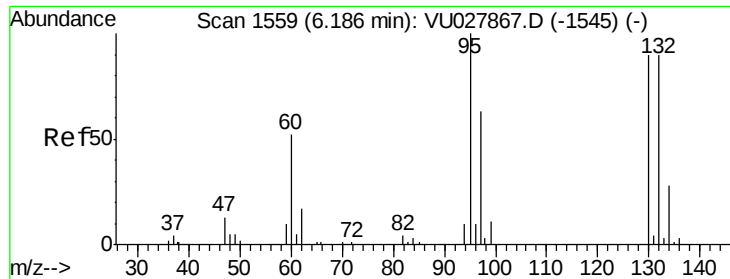
Tgt Ion:117 Resp: 98630
Ion Ratio Lower Upper
117 100
119 94.5 77.1 115.7



#33
Benzene
Concen: 10.171 ug/L
RT: 5.39 min Scan# 1312
Delta R.T. -0.00 min
Lab File: VU027868.D
Acq: 30 Oct 2018 11:52

Tgt Ion: 78 Resp: 270522





#34

Trichloroethene

Concen: 10.289 ug/L

RT: 6.19 min Scan# 1559

Delta R.T. -0.00 min

Lab File: VU027868.D

Acq: 30 Oct 2018 11:52

Instrument :

MSVOA_U

ClientSampleId :

VSTD01046

Tgt Ion: 95 Resp: 71225

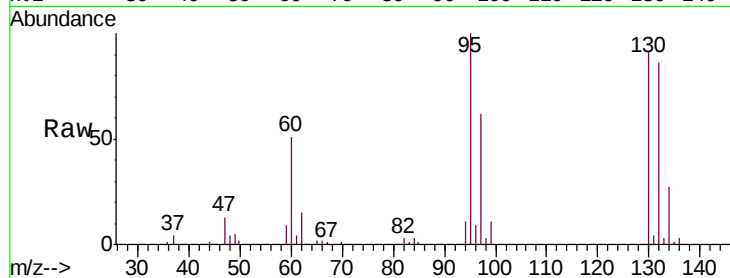
Ion Ratio Lower Upper

95 100

97 62.2 44.0 81.6

132 86.2 63.3 117.5

130 90.8 63.1 117.3

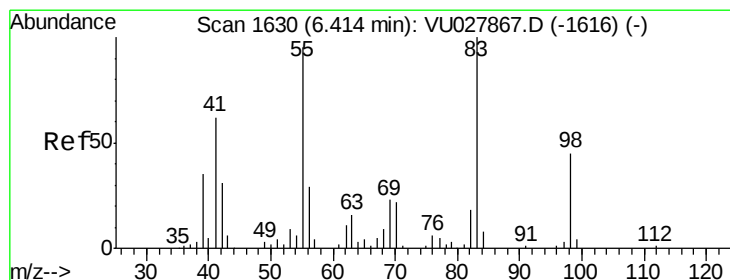
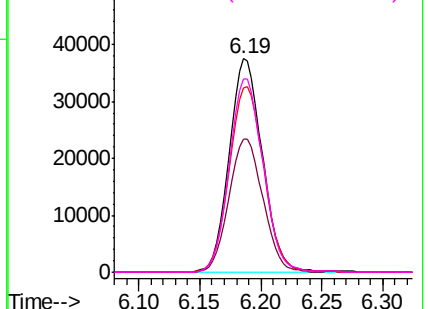
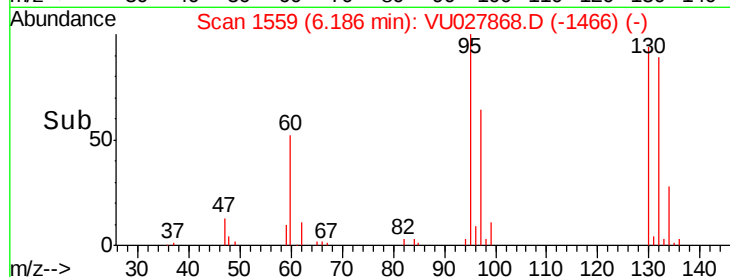


Abundance Ion 95.00 (94.70 to 95.70): VU027868.D (-1545) (-)

Ion 96.95 (96.65 to 97.65): VU027868.D (-1545) (-)

Ion 131.95 (131.65 to 132.65): VU027868.D (-1545) (-)

Ion 129.95 (129.65 to 130.65): VU027868.D (-1545) (-)



#35

Methylcyclohexane

Concen: 10.355 ug/L

RT: 6.42 min Scan# 1631

Delta R.T. 0.00 min

Lab File: VU027868.D

Acq: 30 Oct 2018 11:52

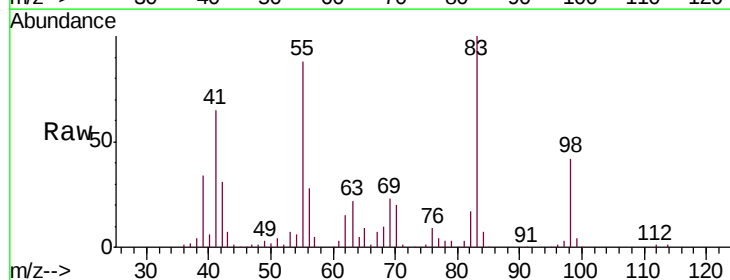
Tgt Ion: 83 Resp: 121948

Ion Ratio Lower Upper

83 100

55 89.2 73.4 110.0

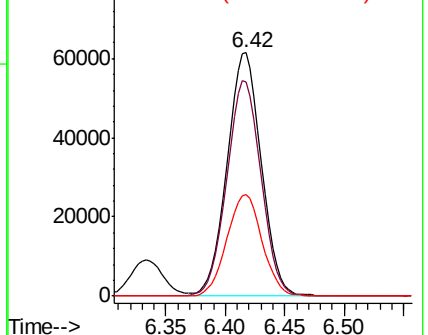
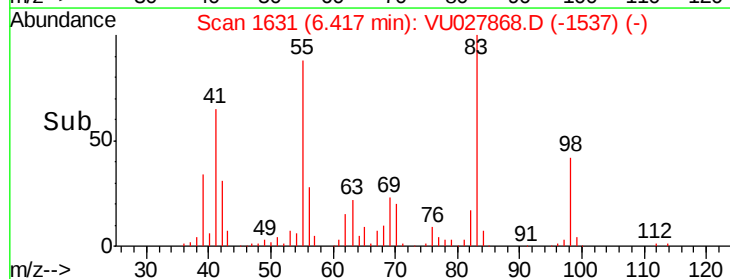
98 43.0 35.3 52.9

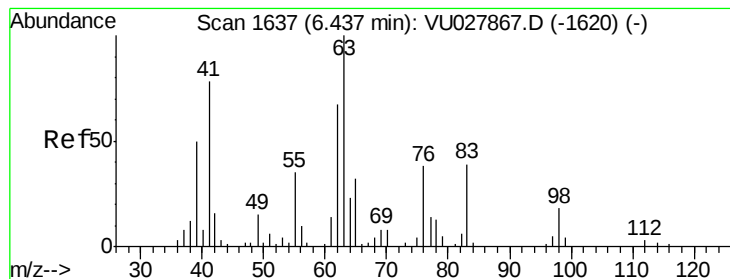


Abundance Ion 83.15 (82.85 to 83.85): VU027868.D (-1616) (-)

Ion 55.10 (54.80 to 55.80): VU027868.D (-1616) (-)

Ion 98.15 (97.85 to 98.85): VU027868.D (-1616) (-)





#37

1,2-Dichloropropane

Concen: 10.100 ug/L

RT: 6.44 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VU027868.D

Acq: 30 Oct 2018 11:52

Instrument :

MSVOA_U

ClientSampleId :

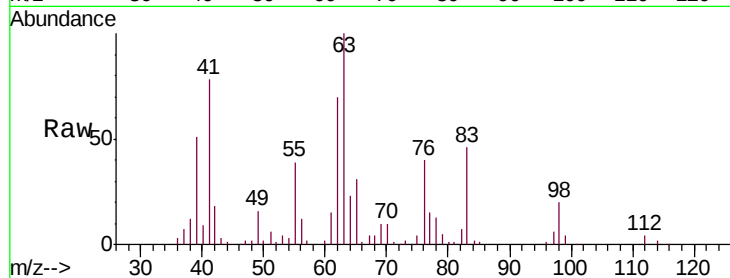
VSTD01046

Tgt Ion: 63 Resp: 76523

Ion Ratio Lower Upper

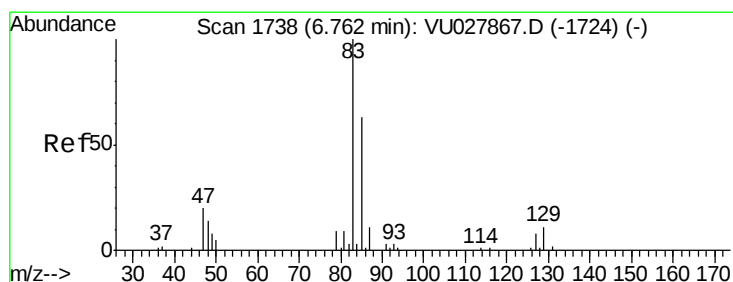
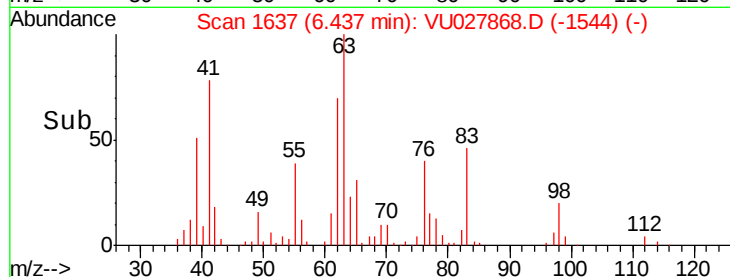
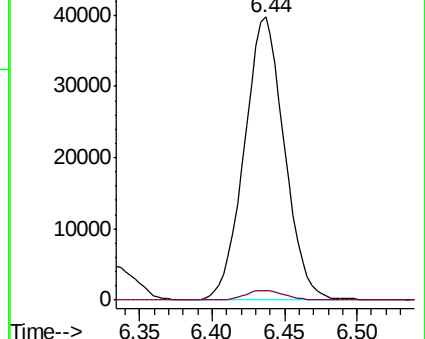
63 100

112 3.4 2.6 3.8



Abundance Ion 63.10 (62.80 to 63.80): VU0

Ion 112.10 (111.80 to 112.80): V



#38

Bromodichloromethane

Concen: 10.421 ug/L

RT: 6.76 min Scan# 1738

Delta R.T. -0.00 min

Lab File: VU027868.D

Acq: 30 Oct 2018 11:52

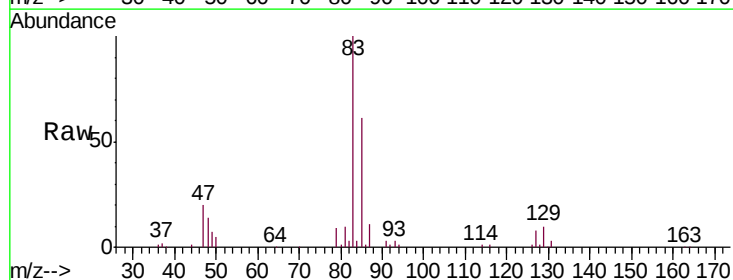
Tgt Ion: 83 Resp: 92314

Ion Ratio Lower Upper

83 100

85 61.4 43.8 81.4

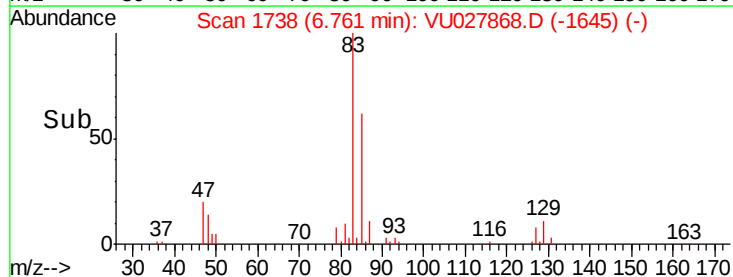
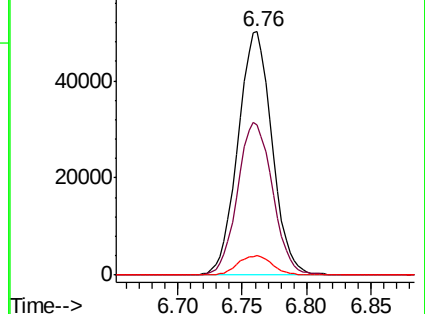
127 7.9 6.4 9.6

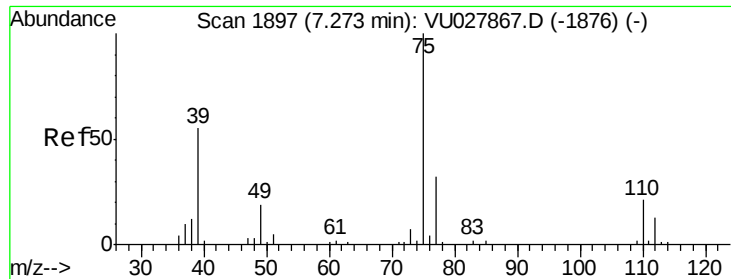


Abundance Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0

Ion 126.90 (126.60 to 127.60): V



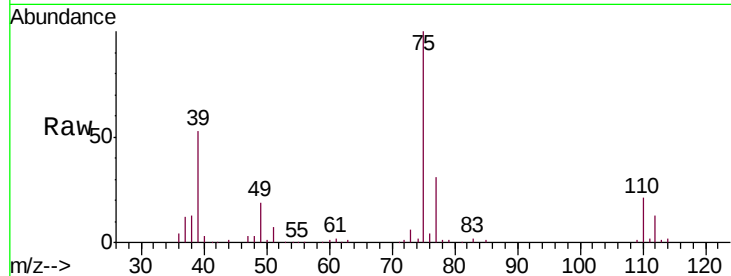


#39

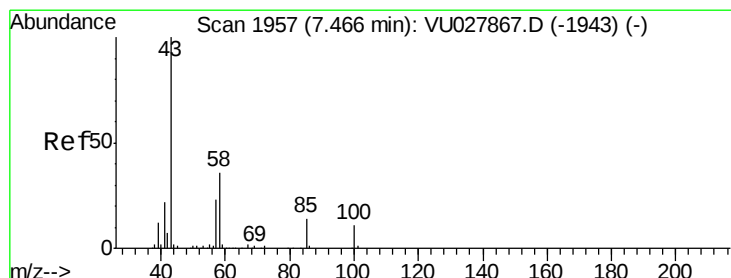
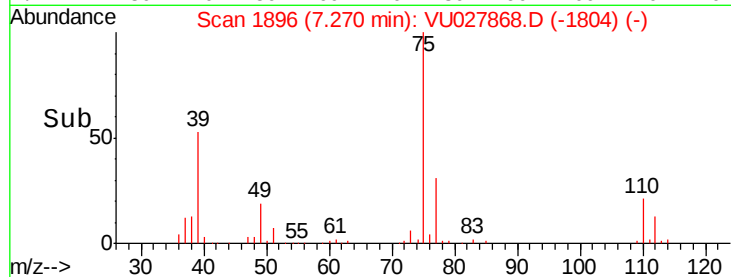
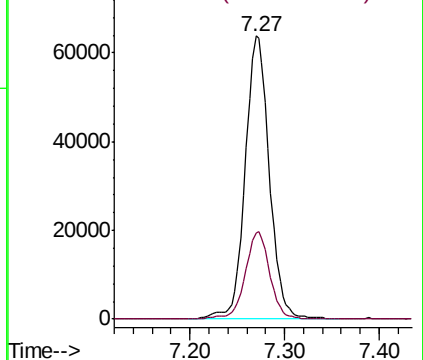
cis-1,3-Dichloropropene
 Concen: 10.451 ug/L
 RT: 7.27 min Scan# 1896
 Delta R.T. -0.00 min
 Lab File: VU027868.D
 Acq: 30 Oct 2018 11:52

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD01046

Tgt Ion: 75 Resp: 113508
 Ion Ratio Lower Upper
 75 100
 77 30.6 22.2 41.2



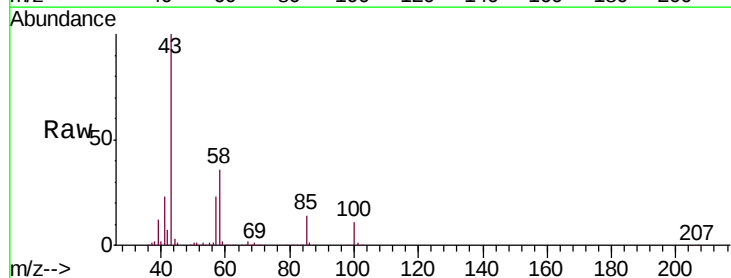
Abundance Ion 75.05 (74.75 to 75.75): VU027867.D (-1876) (-)
 Ion 77.05 (76.75 to 77.75): VU027867.D (-1876) (-)



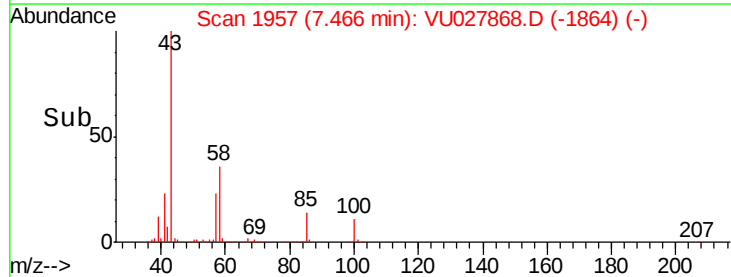
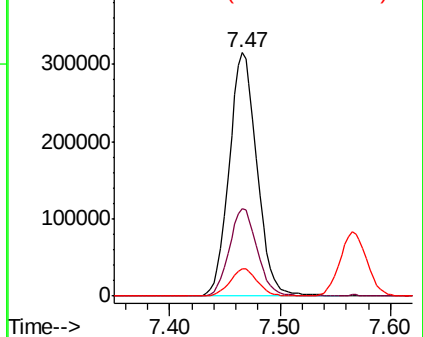
#40

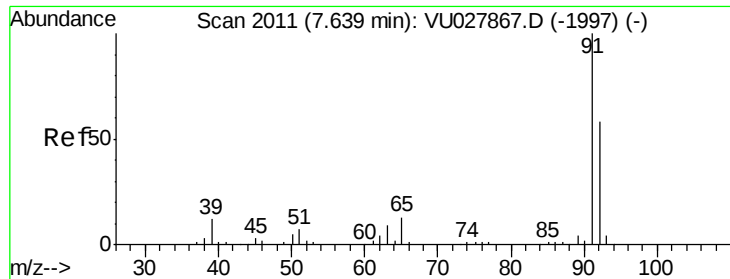
4-Methyl-2-pentanone
 Concen: 102.745 ug/L
 RT: 7.47 min Scan# 1957
 Delta R.T. -0.00 min
 Lab File: VU027868.D
 Acq: 30 Oct 2018 11:52

Tgt Ion: 43 Resp: 549986
 Ion Ratio Lower Upper
 43 100
 58 36.0 28.5 42.7
 100 10.9 8.8 13.2



Abundance Ion 43.05 (42.75 to 43.75): VU027867.D (-1943) (-)
 Ion 58.05 (57.75 to 58.75): VU027867.D (-1943) (-)
 Ion 100.15 (99.85 to 100.85): VU027867.D (-1943) (-)





#42

Toluene

Concen: 10.440 ug/L

RT: 7.64 min Scan# 2011

Delta R.T. -0.00 min

Lab File: VU027868.D

Acq: 30 Oct 2018 11:52

Instrument :

MSVOA_U

ClientSampleId :

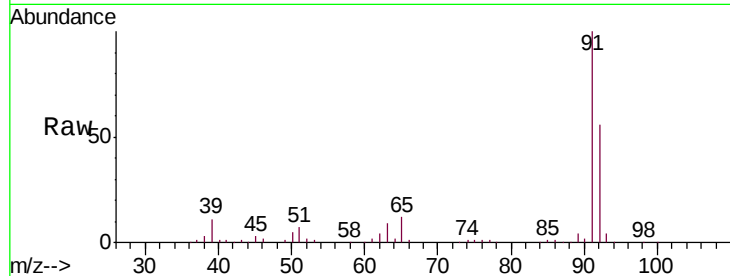
VSTD01046

Tgt Ion: 91 Resp: 290501

Ion Ratio Lower Upper

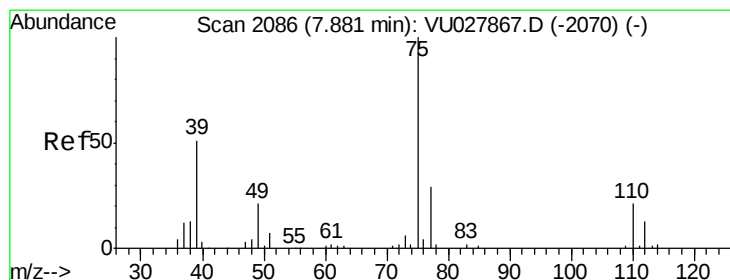
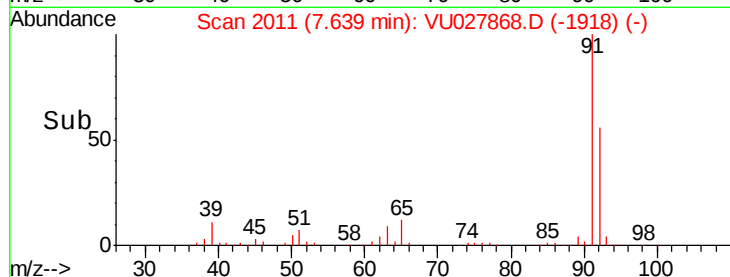
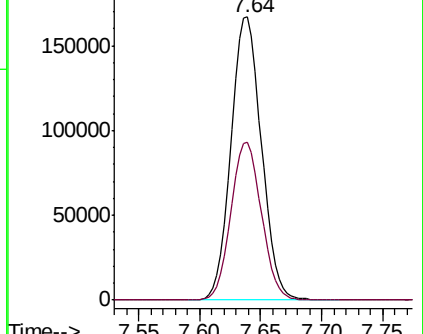
91 100

92 55.7 40.3 74.9



Abundance Ion 91.15 (90.85 to 91.85): VU0

Ion 92.15 (91.85 to 92.85): VU0



#44

trans-1,3-Dichloropropene

Concen: 10.275 ug/L

RT: 7.88 min Scan# 2086

Delta R.T. -0.00 min

Lab File: VU027868.D

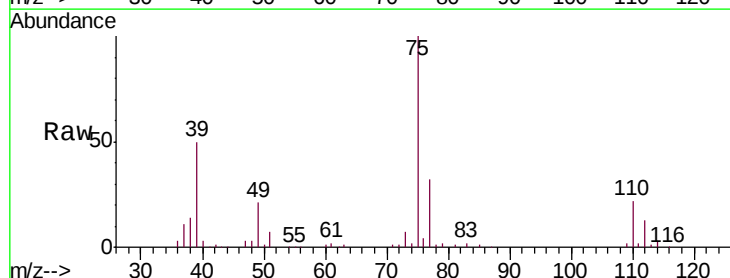
Acq: 30 Oct 2018 11:52

Tgt Ion: 75 Resp: 95724

Ion Ratio Lower Upper

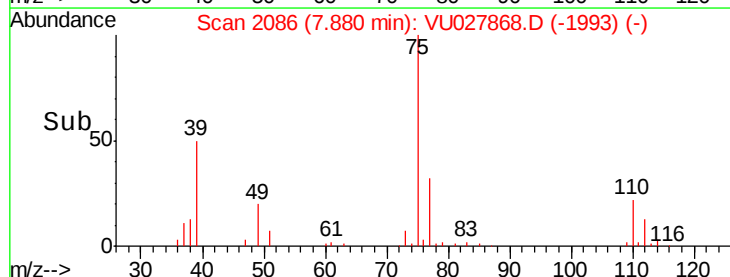
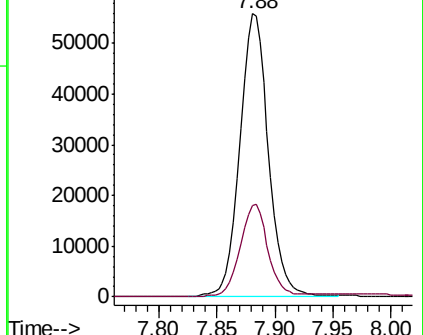
75 100

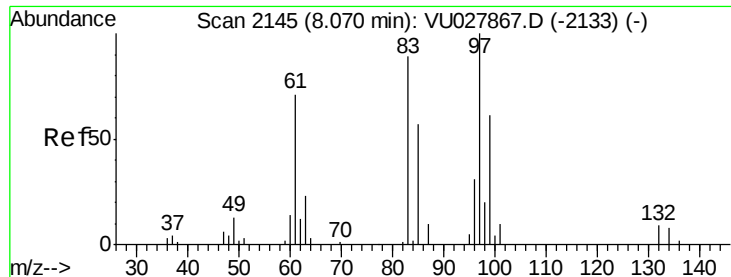
77 32.5 20.5 38.1



Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 77.05 (76.75 to 77.75): VU0

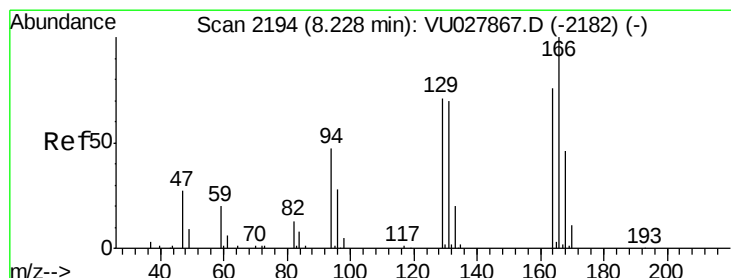
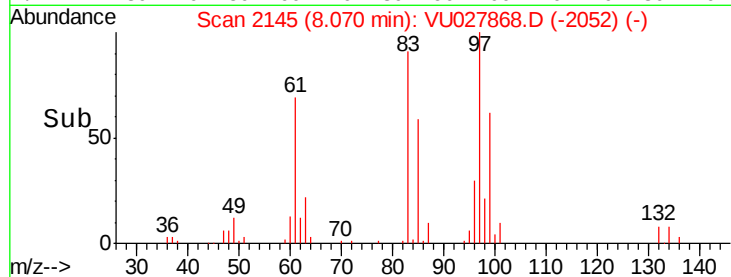
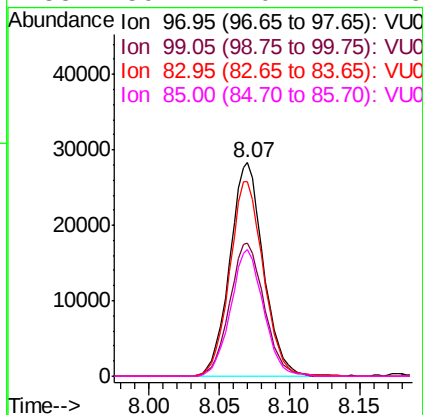
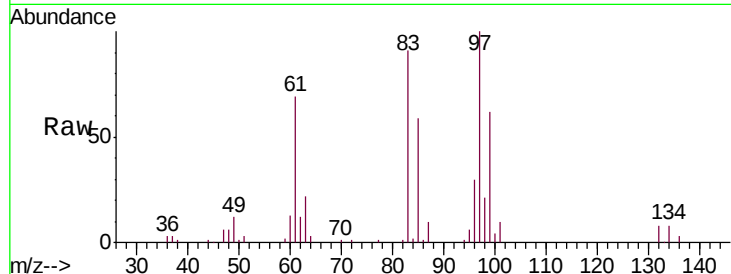




#45
 1,1,2-Trichloroethane
 Concen: 10.117 ug/L
 RT: 8.07 min Scan# 2145
 Delta R.T. -0.00 min
 Lab File: VU027868.D
 Acq: 30 Oct 2018 11:52

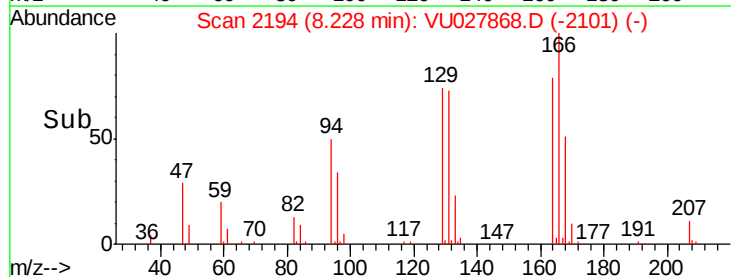
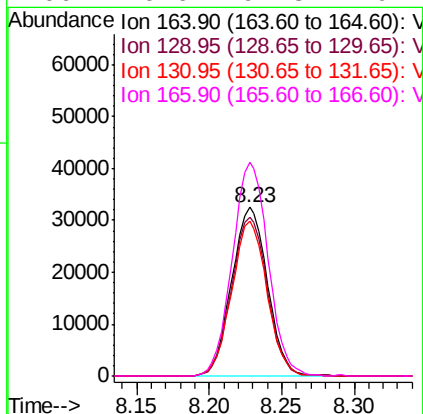
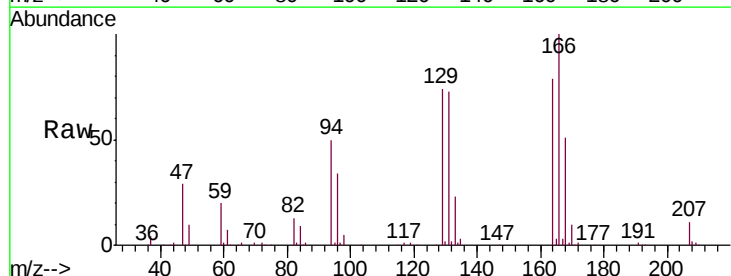
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD01046

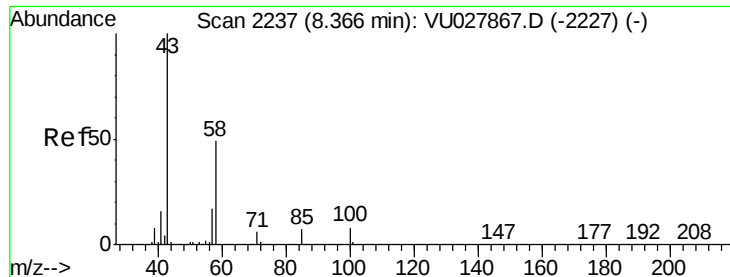
Tgt Ion:	97	Resp:	47152
Ion	Ratio	Lower	Upper
97	100		
99	62.4	42.9	79.7
83	91.1	62.2	115.6
85	59.2	40.2	74.6



#47
 Tetrachloroethene
 Concen: 10.478 ug/L
 RT: 8.23 min Scan# 2194
 Delta R.T. -0.00 min
 Lab File: VU027868.D
 Acq: 30 Oct 2018 11:52

Tgt Ion:	164	Resp:	55728
Ion	Ratio	Lower	Upper
164	100		
129	94.3	64.9	120.5
131	91.9	64.3	119.5
166	126.6	91.8	170.4

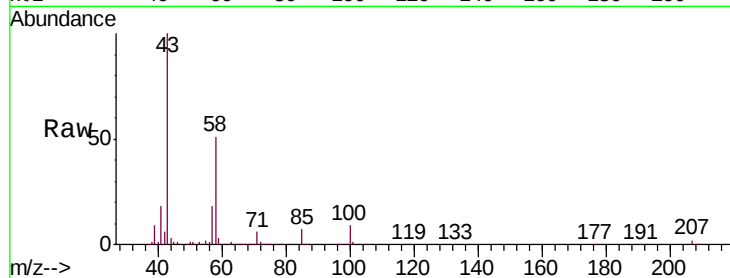




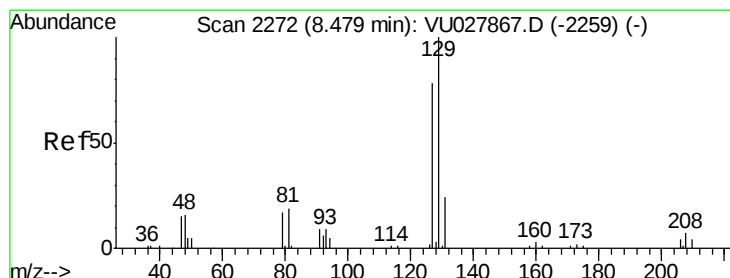
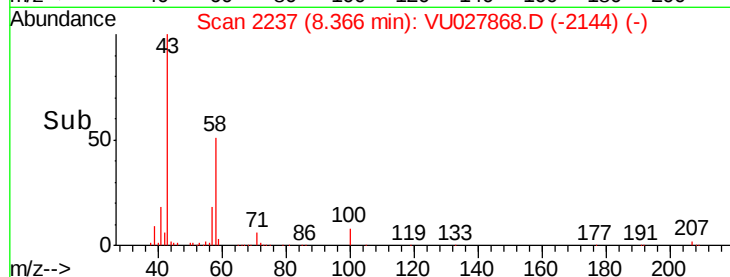
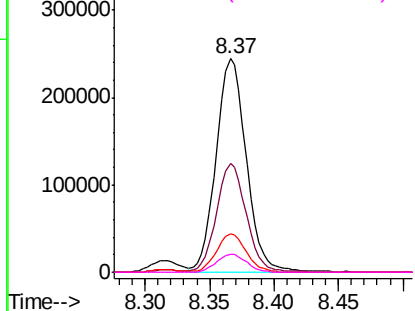
#48
2-Hexanone
Concen: 102.762 ug/L
RT: 8.37 min Scan# 2237
Delta R.T. -0.00 min
Lab File: VU027868.D
Acq: 30 Oct 2018 11:52

Instrument :
MSVOA_U
ClientSampleId :
VSTD01046

Tgt Ion: 43 Resp: 396558
Ion Ratio Lower Upper
43 100
58 50.7 38.9 58.3
57 17.8 13.3 19.9
100 8.6 6.6 10.0

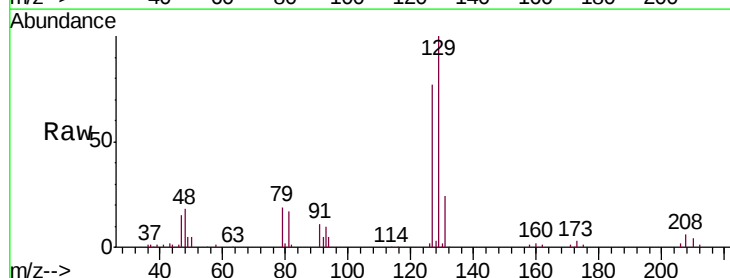


Abundance Ion 43.05 (42.75 to 43.75): VU0
Ion 58.05 (57.75 to 58.75): VU0
Ion 57.20 (56.90 to 57.90): VU0
Ion 100.15 (99.85 to 100.85): VU0

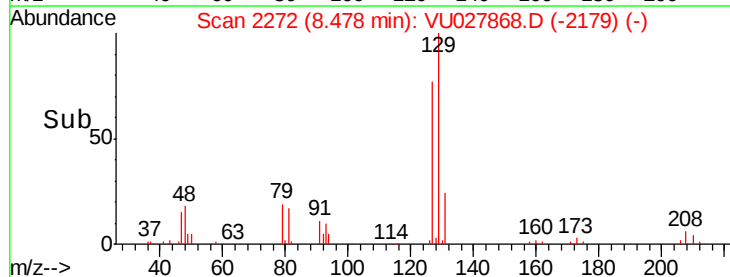
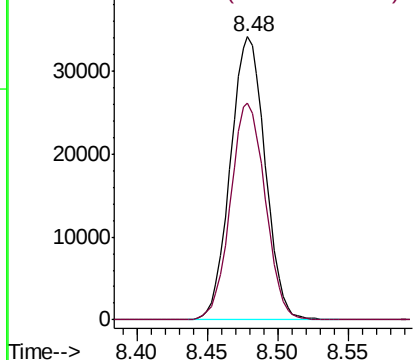


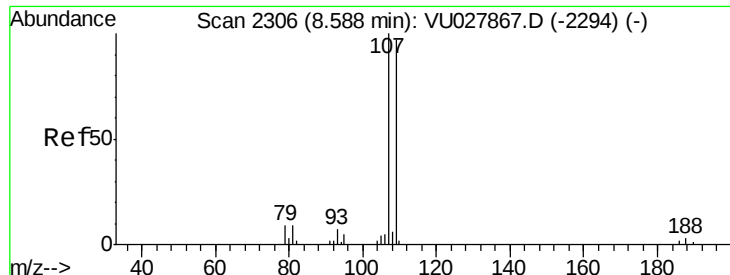
#49
Dibromochloromethane
Concen: 10.487 ug/L
RT: 8.48 min Scan# 2272
Delta R.T. -0.00 min
Lab File: VU027868.D
Acq: 30 Oct 2018 11:52

Tgt Ion: 129 Resp: 59026
Ion Ratio Lower Upper
129 100
127 76.8 54.5 101.1



Abundance Ion 128.95 (128.65 to 129.65): V
Ion 126.90 (126.60 to 127.60): V

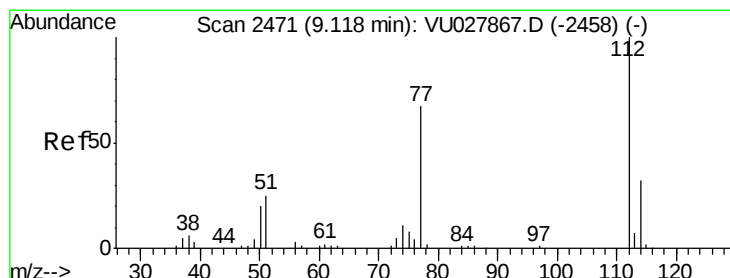
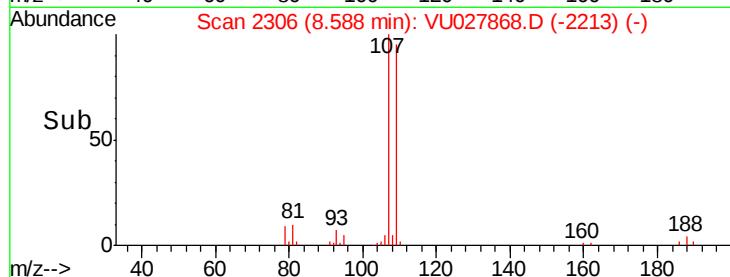
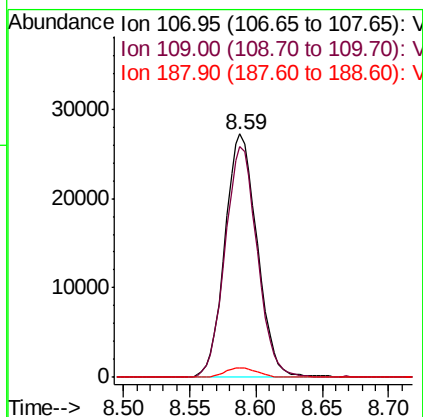
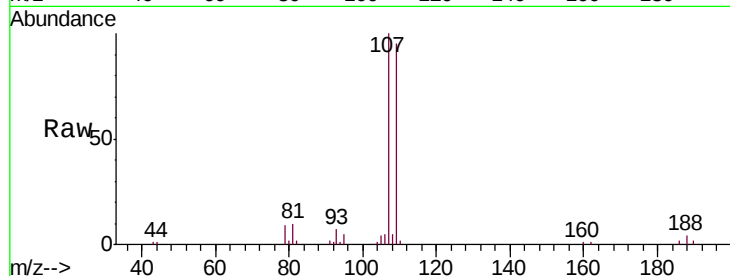




#50
 1,2-Dibromoethane
 Concen: 10.349 ug/L
 RT: 8.59 min Scan# 2306
 Delta R.T. -0.00 min
 Lab File: VU027868.D
 Acq: 30 Oct 2018 11:52

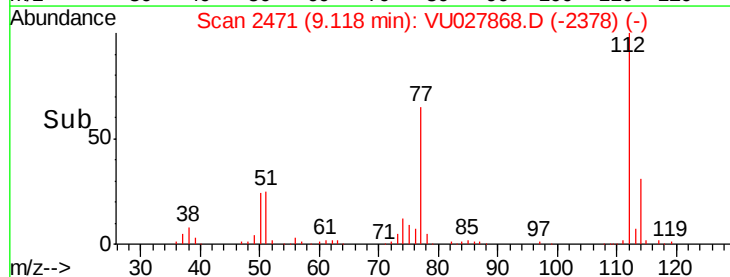
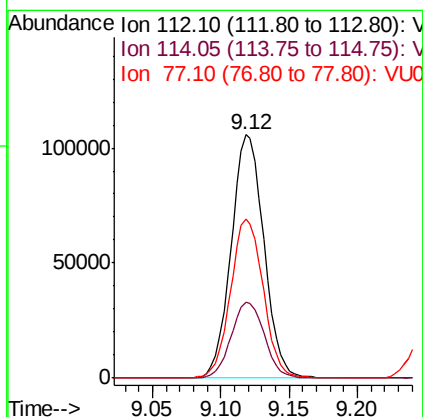
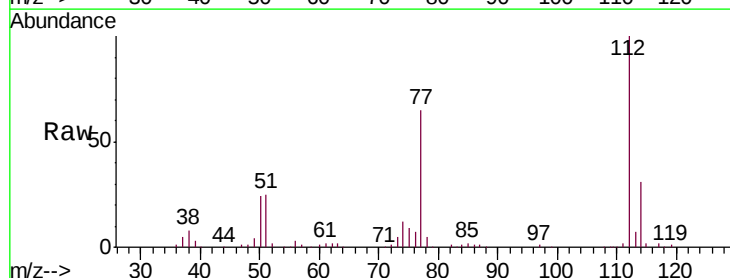
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD01046

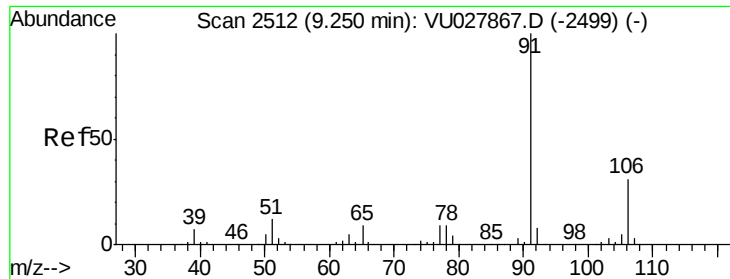
Tgt Ion:107 Resp: 46150
 Ion Ratio Lower Upper
 107 100
 109 95.1 68.0 126.4
 188 3.8 2.7 4.1



#51
 Chlorobenzene
 Concen: 10.192 ug/L
 RT: 9.12 min Scan# 2471
 Delta R.T. -0.00 min
 Lab File: VU027868.D
 Acq: 30 Oct 2018 11:52

Tgt Ion:112 Resp: 175934
 Ion Ratio Lower Upper
 112 100
 114 31.1 22.0 41.0
 77 65.4 54.3 81.5





#52

Ethylbenzene

Concen: 10.380 ug/L

RT: 9.25 min Scan# 2512

Delta R.T. -0.00 min

Lab File: VU027868.D

Acq: 30 Oct 2018 11:52

Instrument :

MSVOA_U

ClientSampleId :

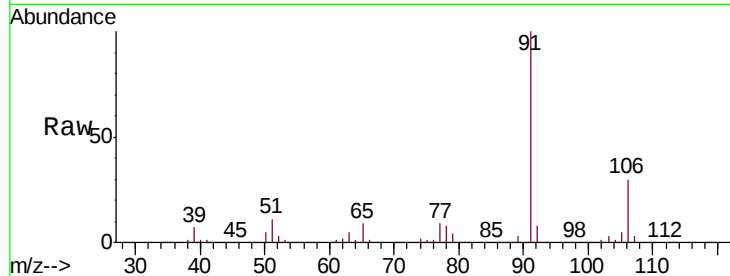
VSTD01046

Tgt Ion: 91 Resp: 329357

Ion Ratio Lower Upper

91 100

106 30.0 21.5 39.9



Abundance Ion 91.15 (90.85 to 91.85): VU027867.D (-2499) (-)

Ion 106.15 (105.85 to 106.85): VU027868.D (-2419) (-)

9.25

250000

200000

150000

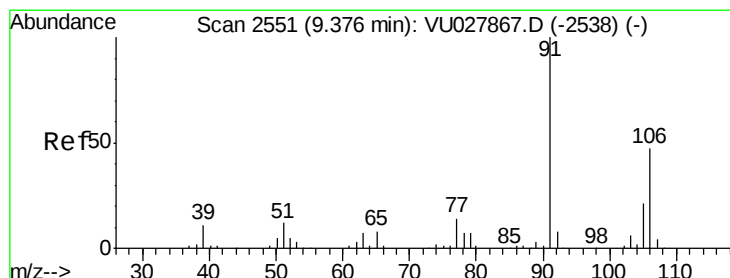
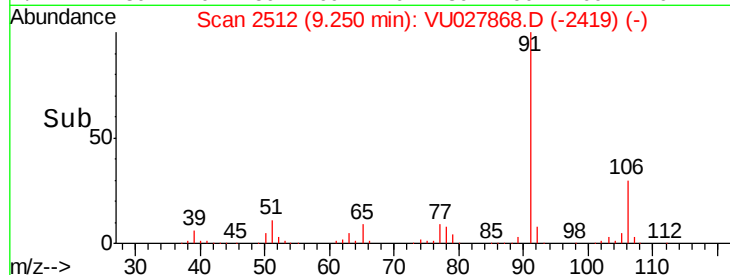
100000

50000

0

9.20 9.25 9.30 9.35

Time-->



#53

m,p-xylene

Concen: 10.283 ug/L

RT: 9.38 min Scan# 2551

Delta R.T. -0.00 min

Lab File: VU027868.D

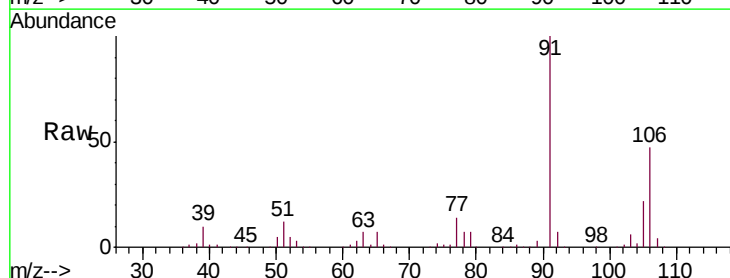
Acq: 30 Oct 2018 11:52

Tgt Ion: 106 Resp: 118298

Ion Ratio Lower Upper

106 100

91 213.7 148.7 276.1



Abundance Ion 106.15 (105.85 to 106.85): VU027868.D (-2458) (-)

Ion 91.15 (90.85 to 91.85): VU027867.D (-2538) (-)

9.38

150000

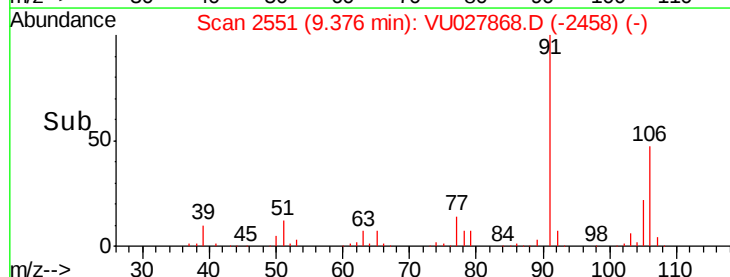
100000

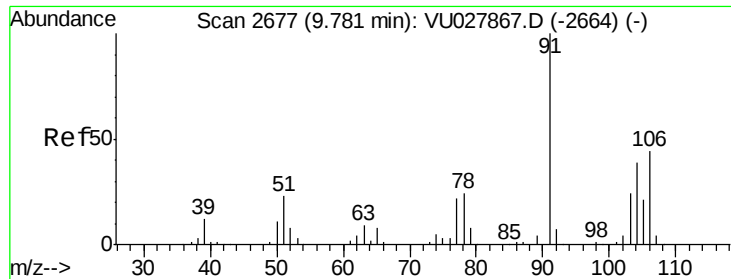
50000

0

9.30 9.35 9.40 9.45 9.50

Time-->





#54

o-xylene

Concen: 10.318 ug/L

RT: 9.78 min Scan# 2677

Delta R.T. -0.00 min

Lab File: VU027868.D

Acq: 30 Oct 2018 11:52

Instrument :

MSVOA_U

ClientSampleId :

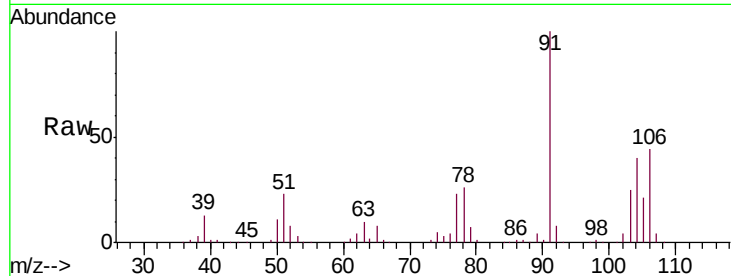
VSTD01046

Tgt Ion:106 Resp: 116593

Ion Ratio Lower Upper

106 100

91 225.5 158.3 293.9



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0

200000

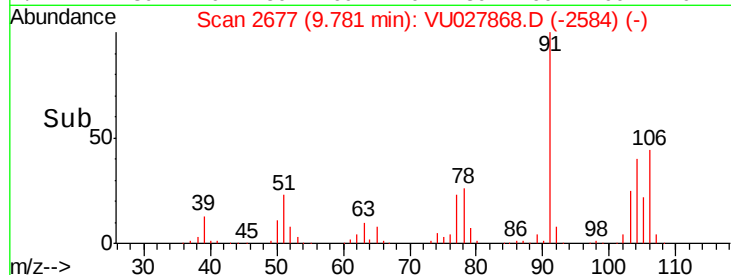
150000

100000

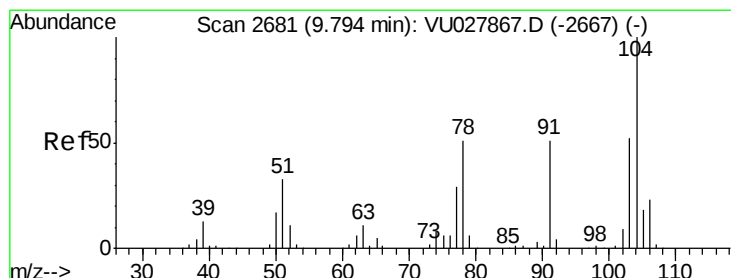
50000

0

9.70 9.75 9.80 9.85



Time-->



#55

Styrene

Concen: 10.586 ug/L

RT: 9.79 min Scan# 2681

Delta R.T. -0.00 min

Lab File: VU027868.D

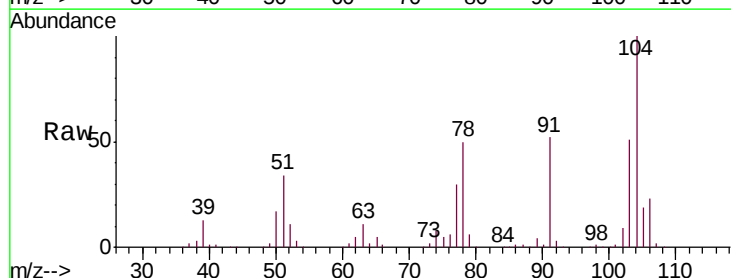
Acq: 30 Oct 2018 11:52

Tgt Ion:104 Resp: 200510

Ion Ratio Lower Upper

104 100

78 50.0 35.6 66.0



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VU0

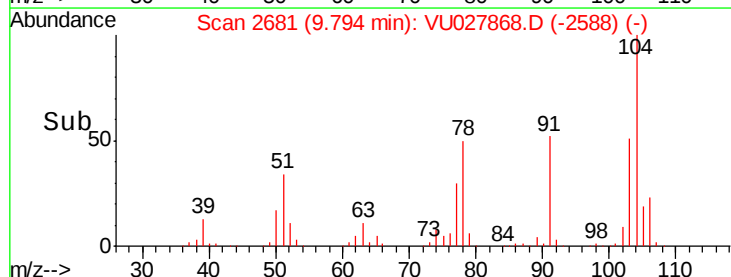
150000

100000

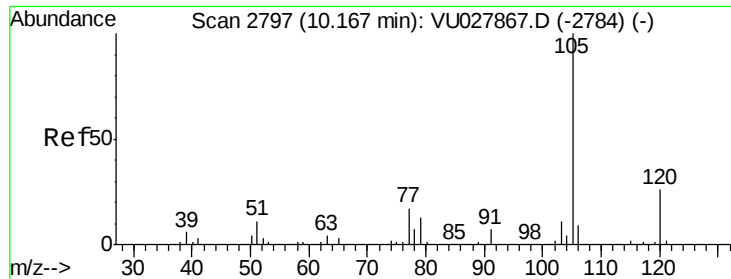
50000

0

9.70 9.80 9.90



Time-->



#56

Isopropylbenzene

Concen: 10.494 ug/L

RT: 10.17 min Scan# 2797

Delta R.T. -0.00 min

Lab File: VU027868.D

Acq: 30 Oct 2018 11:52

Instrument :

MSVOA_U

ClientSampleId :

VSTD01046

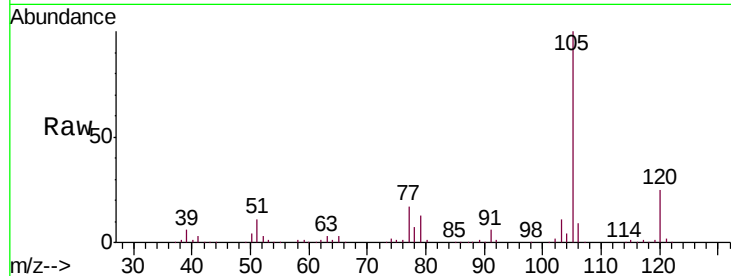
Tgt Ion: 105 Resp: 323063

Ion Ratio Lower Upper

105 100

120 24.8 20.2 30.2

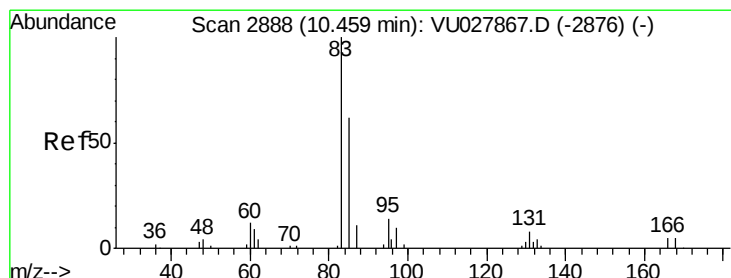
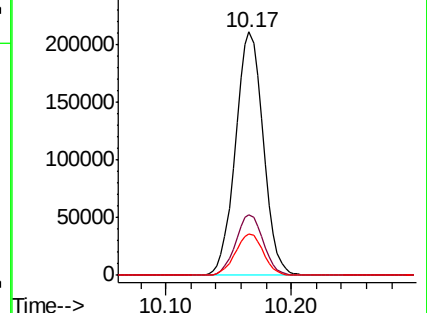
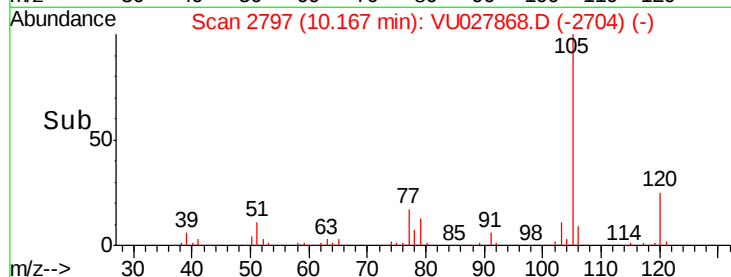
77 17.2 13.4 20.2



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#58

1,1,2,2-Tetrachloroethane

Concen: 10.564 ug/L

RT: 10.46 min Scan# 2888

Delta R.T. -0.00 min

Lab File: VU027868.D

Acq: 30 Oct 2018 11:52

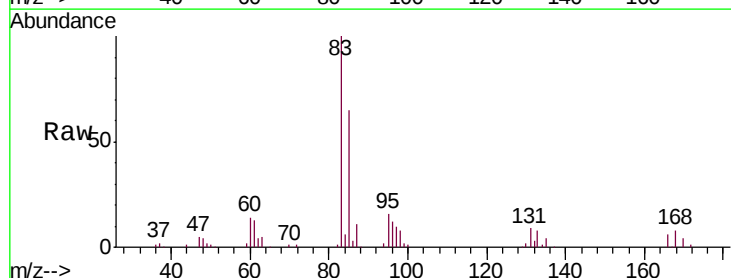
Tgt Ion: 83 Resp: 64206

Ion Ratio Lower Upper

83 100

85 65.0 44.4 82.4

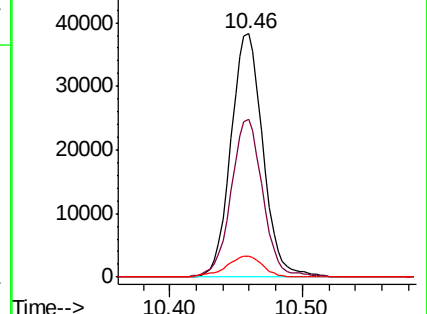
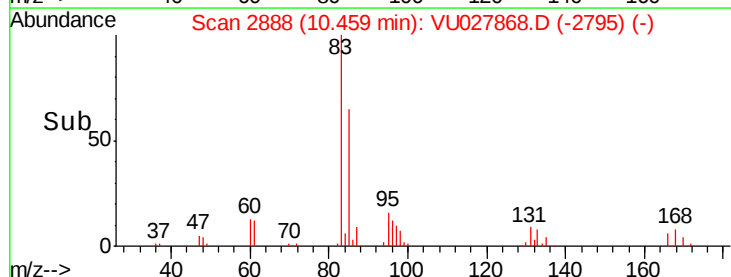
131 8.5 6.8 10.2

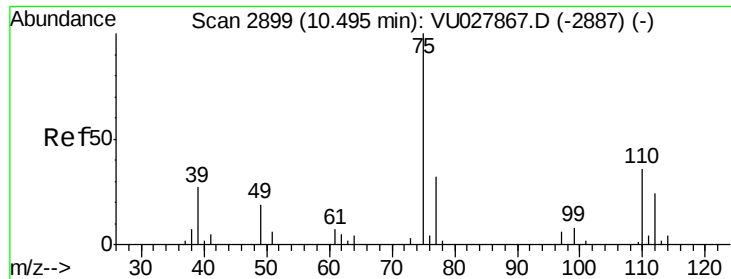


Abundance Ion 82.95 (82.65 to 83.65): V

Ion 85.00 (84.70 to 85.70): V

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 10.393 ug/L

RT: 10.49 min Scan# 2899

Delta R.T. -0.00 min

Lab File: VU027868.D

Acq: 30 Oct 2018 11:52

Instrument :

MSVOA_U

ClientSampleId :

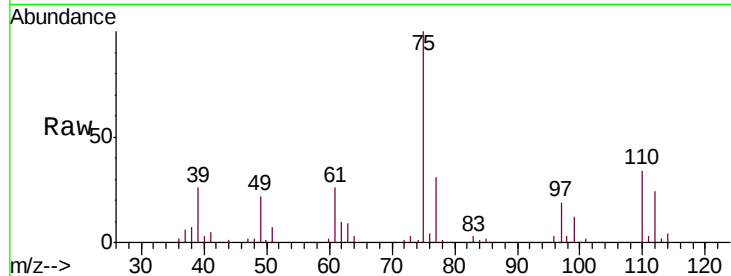
VSTD01046

Tgt Ion: 75 Resp: 47728

Ion Ratio Lower Upper

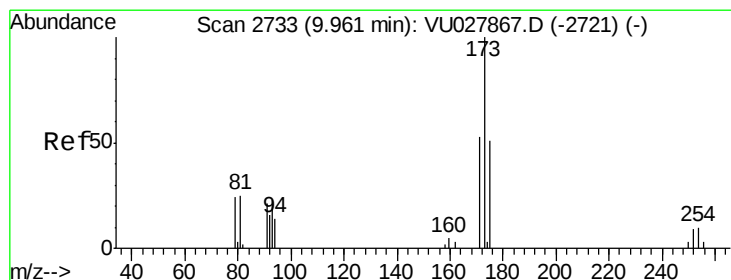
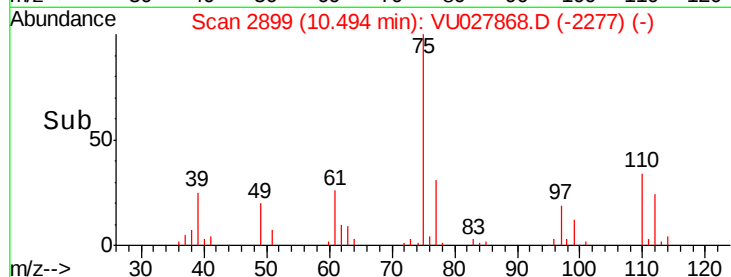
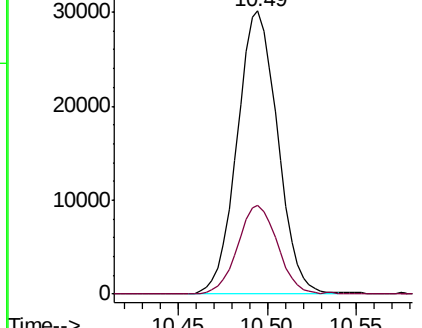
75 100

77 30.7 25.8 38.6



Abundance Ion 75.00 (74.70 to 75.70): VU027867.D (-2887) (-)

Ion 77.00 (76.70 to 77.70): VU027867.D (-2887) (-)



#61

Bromoform

Concen: 10.716 ug/L

RT: 9.96 min Scan# 2732

Delta R.T. -0.00 min

Lab File: VU027868.D

Acq: 30 Oct 2018 11:52

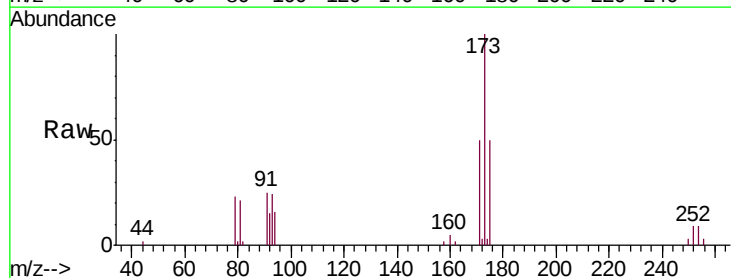
Tgt Ion: 173 Resp: 34056

Ion Ratio Lower Upper

173 100

175 48.7 38.3 57.5

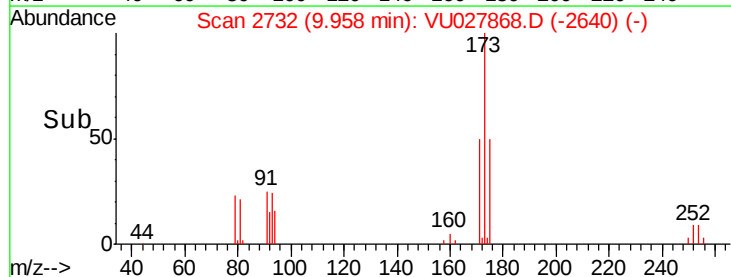
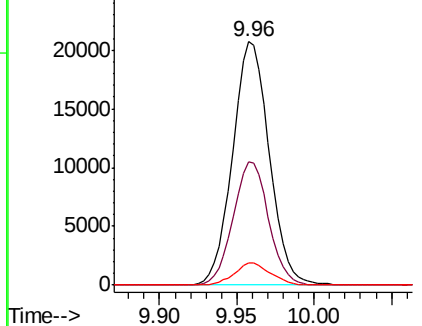
254 8.8 7.8 11.6

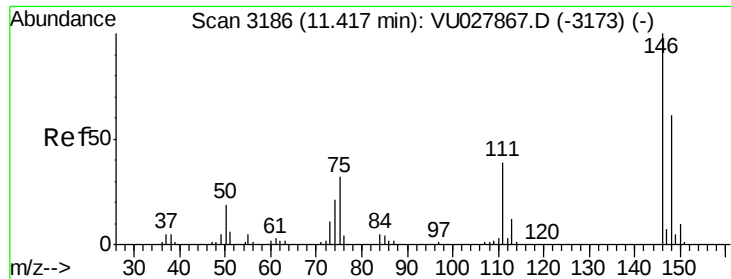


Abundance Ion 172.90 (172.60 to 173.60): VU027867.D (-2721) (-)

Ion 174.90 (174.60 to 175.60): VU027867.D (-2721) (-)

Ion 253.75 (253.45 to 254.45): VU027867.D (-2721) (-)





#62

1,3-Dichlorobenzene

Concen: 10.117 ug/L

RT: 11.42 min Scan# 3186

Delta R.T. -0.00 min

Lab File: VU027868.D

Acq: 30 Oct 2018 11:52

Instrument :

MSVOA_U

ClientSampleId :

VSTD01046

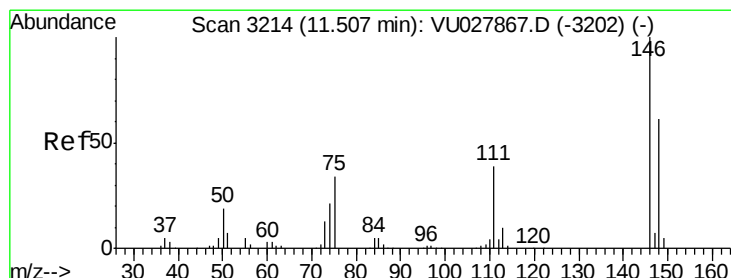
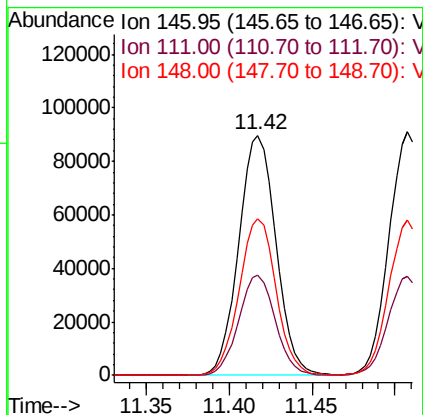
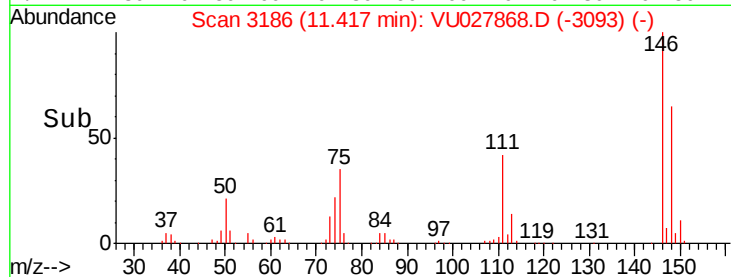
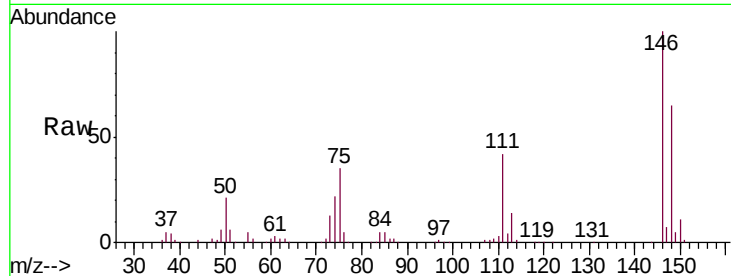
Tgt Ion:146 Resp: 140569

Ion Ratio Lower Upper

146 100

111 41.5 27.4 51.0

148 65.4 42.6 79.0



#63

1,4-Dichlorobenzene

Concen: 10.258 ug/L

RT: 11.51 min Scan# 3214

Delta R.T. -0.00 min

Lab File: VU027868.D

Acq: 30 Oct 2018 11:52

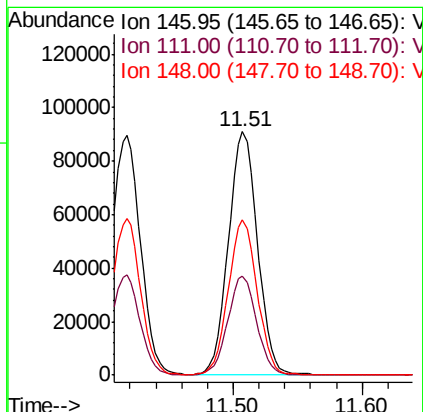
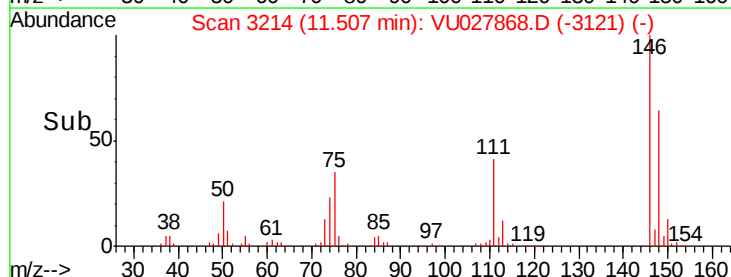
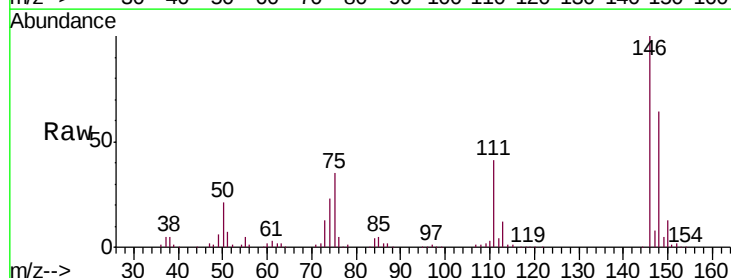
Tgt Ion:146 Resp: 142470

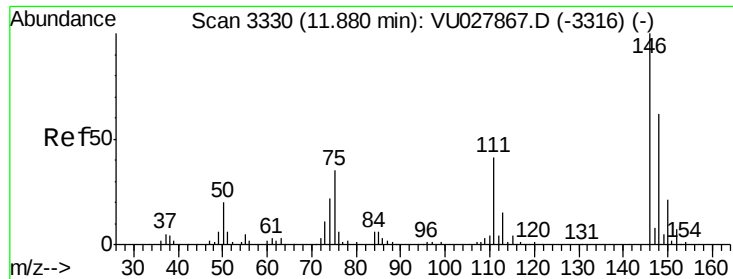
Ion Ratio Lower Upper

146 100

111 40.9 27.4 51.0

148 63.6 43.1 80.1





#65

1,2-Dichlorobenzene

Concen: 10.238 ug/L

RT: 11.88 min Scan# 3330

Delta R.T. -0.00 min

Lab File: VU027868.D

Acq: 30 Oct 2018 11:52

Instrument :

MSVOA_U

ClientSampleId :

VSTD01046

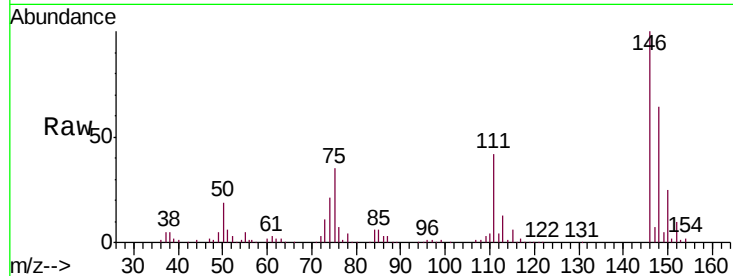
Tgt Ion:146 Resp: 134312

Ion Ratio Lower Upper

146 100

111 42.2 33.0 49.4

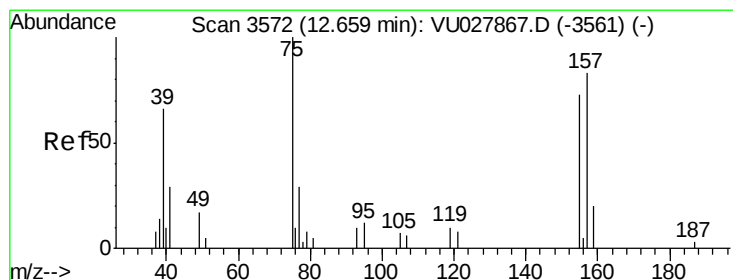
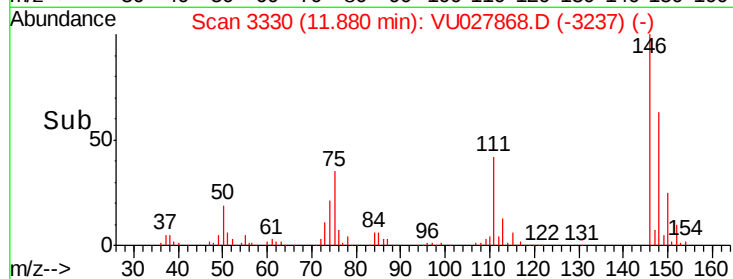
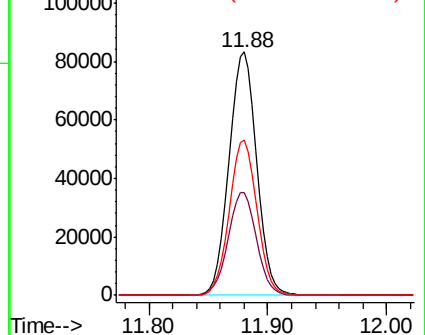
148 63.6 49.2 73.8



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 10.471 ug/L

RT: 12.66 min Scan# 3571

Delta R.T. -0.00 min

Lab File: VU027868.D

Acq: 30 Oct 2018 11:52

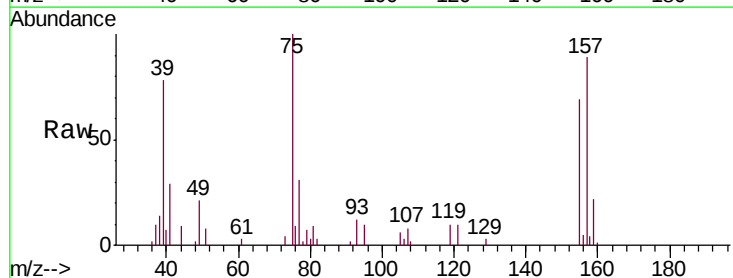
Tgt Ion: 75 Resp: 10766

Ion Ratio Lower Upper

75 100

155 68.6 58.6 87.8

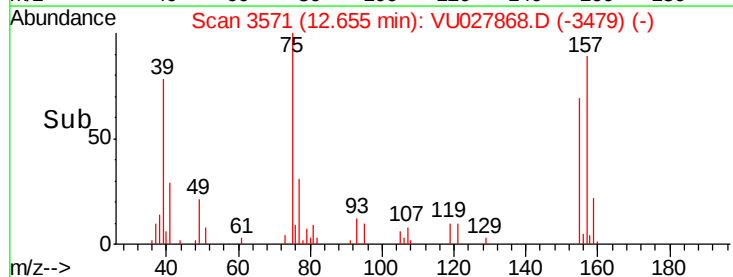
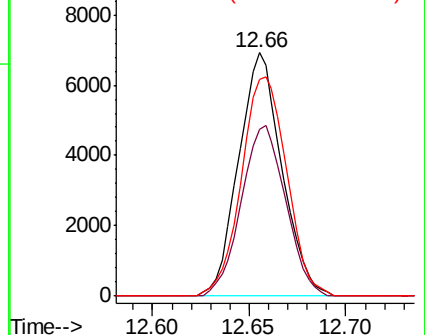
157 89.0 66.7 100.1

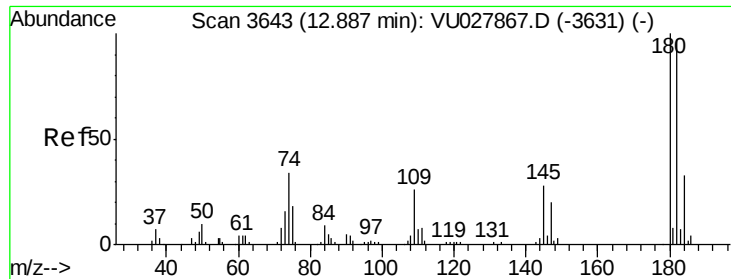


Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

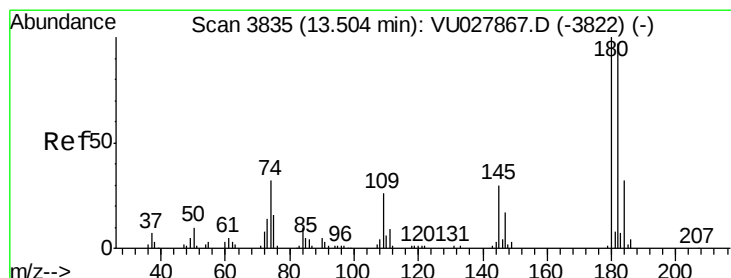
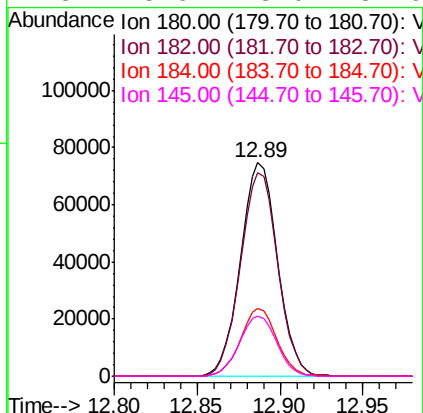
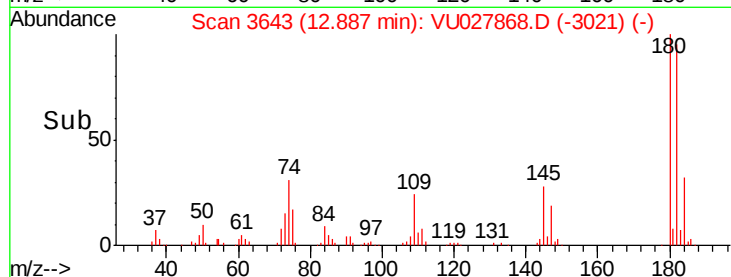
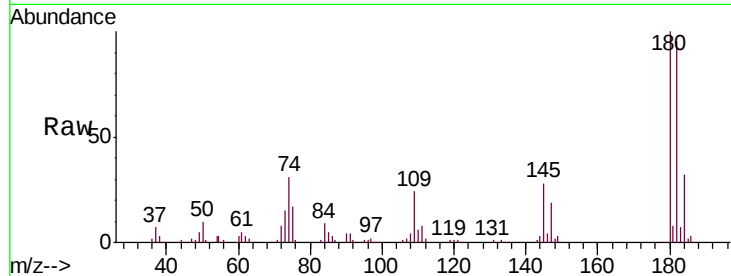




#67
 1,3,5-Trichlorobenzene
 Concen: 10.371 ug/L
 RT: 12.89 min Scan# 3643
 Delta R.T. -0.00 min
 Lab File: VU027868.D
 Acq: 30 Oct 2018 11:52

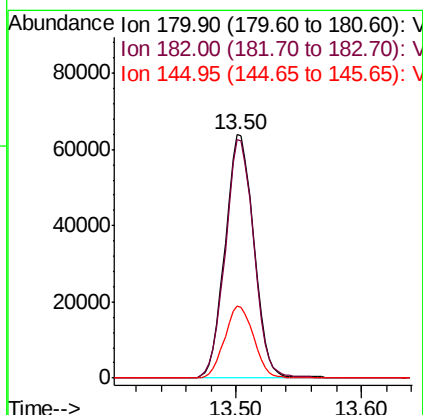
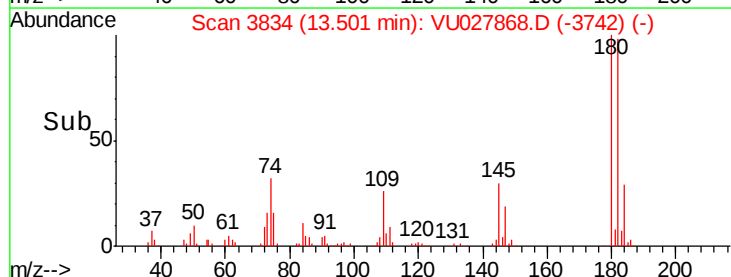
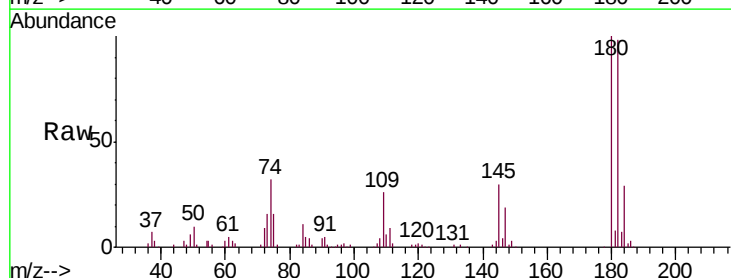
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD01046

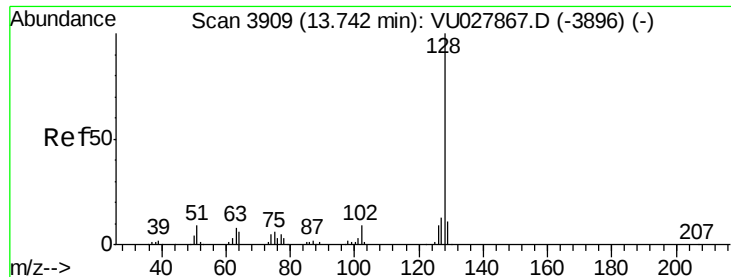
Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.3	77.3	115.9
184	31.3	24.6	37.0
145	28.6	23.0	34.6



#68
 1,2,4-trichlorobenzene
 Concen: 10.699 ug/L
 RT: 13.50 min Scan# 3834
 Delta R.T. -0.00 min
 Lab File: VU027868.D
 Acq: 30 Oct 2018 11:52

Tgt Ion	Ratio	Lower	Upper
180	100		
182	97.5	77.8	116.6
145	29.9	22.9	34.3





#69

Naphthalene

Concen: 10.920 ug/L

RT: 13.74 min Scan# 3909

Delta R.T. -0.00 min

Lab File: VU027868.D

Acq: 30 Oct 2018 11:52

Instrument :

MSVOA_U

ClientSampled :

VSTD01046

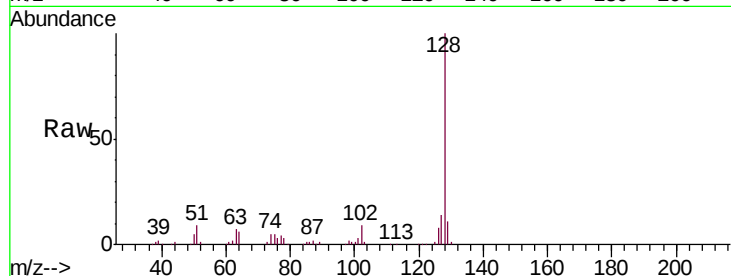
Tgt Ion:128 Resp: 161467

Ion Ratio Lower Upper

128 100

129 10.9 8.6 12.8

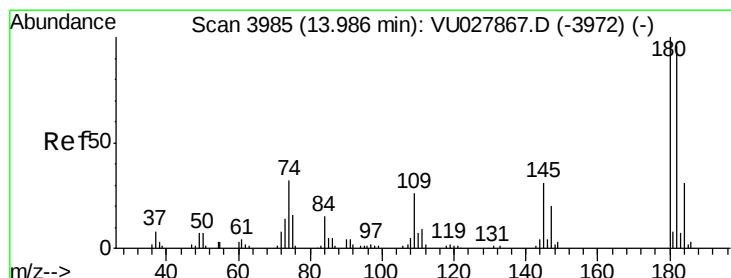
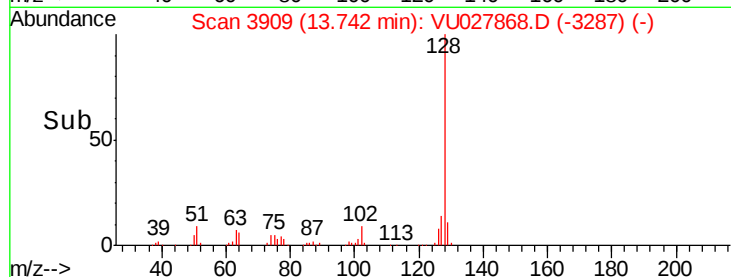
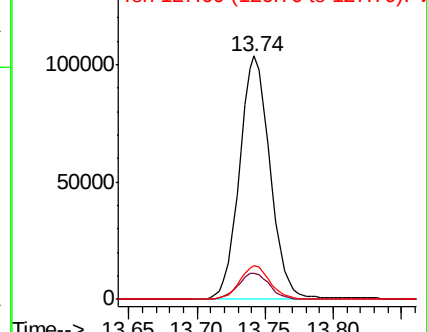
127 13.6 10.5 15.7



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 10.476 ug/L

RT: 13.99 min Scan# 3985

Delta R.T. -0.00 min

Lab File: VU027868.D

Acq: 30 Oct 2018 11:52

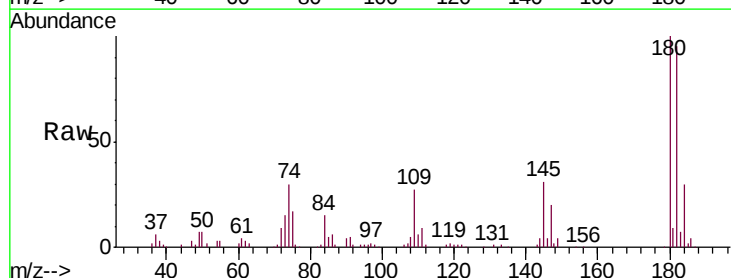
Tgt Ion:180 Resp: 90731

Ion Ratio Lower Upper

180 100

182 94.4 79.4 119.0

145 31.2 25.4 38.0



Abundance Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

