

Data File : VU027867.D
Acq On : 30 Oct 2018 11:28
Operator : MD/SY
Sample : VSTD00545
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD00545

Quant Time: Oct 31 01:46:02 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	89399	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	86582	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	44120	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	35701	5.11	ug/L	0.00
7) Chloroethane-d5	1.68	69	27289	5.06	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.28	63	66402	5.01	ug/L	0.00
20) 2-Butanone-d5	4.21	46	105015	50.23	ug/L	0.00
24) Chloroform-d	4.65	84	63244	5.03	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.31	65	35194	4.87	ug/L	0.00
32) Benzene-d6	5.34	84	119057	5.02	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.33	67	42598	5.08	ug/L	0.00
41) Toluene-d8	7.57	98	110878	4.92	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.85	79	15802	4.86	ug/L	0.00
46) 2-Hexanone-d5	8.31	63	90866	51.14	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.43	84	29993	5.05	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.86	152	40545	4.80	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.21	85	44376	5.042 ug/L	100
3) Chloromethane	1.33	50	43443	4.977 ug/L	100
5) Vinyl chloride	1.40	62	43274	4.980 ug/L	100
6) Bromomethane	1.63	94	13717	4.804 ug/L	100
8) Chloroethane	1.70	64	24420	4.795 ug/L	100
9) Trichlorofluoromethane	1.89	101	57345	4.971 ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.30	101	29823	5.066 ug/L	100
12) 1,1-Dichloroethene	2.29	96	27498	4.952 ug/L	100
13) Acetone	2.34	43	62880	47.874 ug/L	100
14) Carbon disulfide	2.48	76	96203	4.850 ug/L	100
15) Methyl Acetate	2.62	43	16526	4.700 ug/L	100
16) Methylene chloride	2.70	84	30526	4.893 ug/L	100
17) Methyl tert-butyl Ether	3.01	73	81598	4.929 ug/L	100
18) trans-1,2-Dichloroethene	2.99	96	29706	5.033 ug/L	100
19) 1,1-Dichloroethane	3.45	63	62100	4.984 ug/L	100
21) 2-Butanone	4.29	43	112030	49.058 ug/L	100
22) cis-1,2-Dichloroethene	4.23	96	34561	5.066 ug/L	100
23) Bromochloromethane	4.55	128	14494	5.127 ug/L	100
25) Chloroform	4.68	83	62503	4.948 ug/L	100
27) 1,2-Dichloroethane	5.41	62	43526	4.937 ug/L	100
29) 1,1,1-Trichloroethane	4.92	97	56373	5.045 ug/L	100
30) Cyclohexane	5.00	56	65262	4.971 ug/L	100
31) Carbon tetrachloride	5.14	117	47471	4.951 ug/L	100
33) Benzene	5.39	78	136626	4.983 ug/L	100
34) Trichloroethene	6.19	95	36020	5.047 ug/L	100
35) Methylcyclohexane	6.41	83	60386	4.974 ug/L	100
37) 1,2-Dichloropropane	6.44	63	39546	5.063 ug/L	100
38) Bromodichloromethane	6.76	83	44826	4.909 ug/L	100
39) cis-1,3-Dichloropropene	7.27	75	56413	5.039 ug/L	100
40) 4-Methyl-2-pentanone	7.47	43	276216	50.055 ug/L	100

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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.64	91	141591	4.936	ug/L	100
44) trans-1,3-Dichloropropene	7.88	75	46705	4.863	ug/L	100
45) 1,1,2-Trichloroethane	8.07	97	24417	5.082	ug/L	100
47) Tetrachloroethene	8.23	164	26804	4.889	ug/L	100
48) 2-Hexanone	8.37	43	203273	51.096	ug/L	100
49) Dibromochloromethane	8.48	129	28480	4.908	ug/L	100
50) 1,2-Dibromoethane	8.59	107	22912	4.984	ug/L	100
51) Chlorobenzene	9.12	112	86993	4.888	ug/L	100
52) Ethylbenzene	9.25	91	162027	4.954	ug/L	100
53) m,p-xylene	9.38	106	58785	4.957	ug/L	100
54) o-xylene	9.78	106	57214	4.911	ug/L	100
55) Styrene	9.79	104	97059	4.971	ug/L	100
56) Isopropylbenzene	10.17	105	158955	5.009	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.46	83	31421	5.015	ug/L	100
59) 1,2,3-Trichloropropane	10.49	75	23243	4.910	ug/L	100
61) Bromoform	9.96	173	15550	4.791	ug/L	100
62) 1,3-Dichlorobenzene	11.42	146	71950	5.070	ug/L	100
63) 1,4-Dichlorobenzene	11.51	146	69304	4.886	ug/L	100
65) 1,2-Dichlorobenzene	11.88	146	65564	4.893	ug/L	100
66) 1,2-Dibromo-3-chloropropan	12.66	75	5585	5.319	ug/L	100
67) 1,3,5-Trichlorobenzene	12.89	180	56573	4.954	ug/L	100
68) 1,2,4-trichlorobenzene	13.50	180	48684	5.013	ug/L	100
69) Naphthalene	13.74	128	77074	5.104	ug/L	100
70) 1,2,3-Trichlorobenzene	13.99	180	43120	4.875	ug/L	100

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

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Instrument :
MSVOA_U
ClientSampleId :
VSTD00545

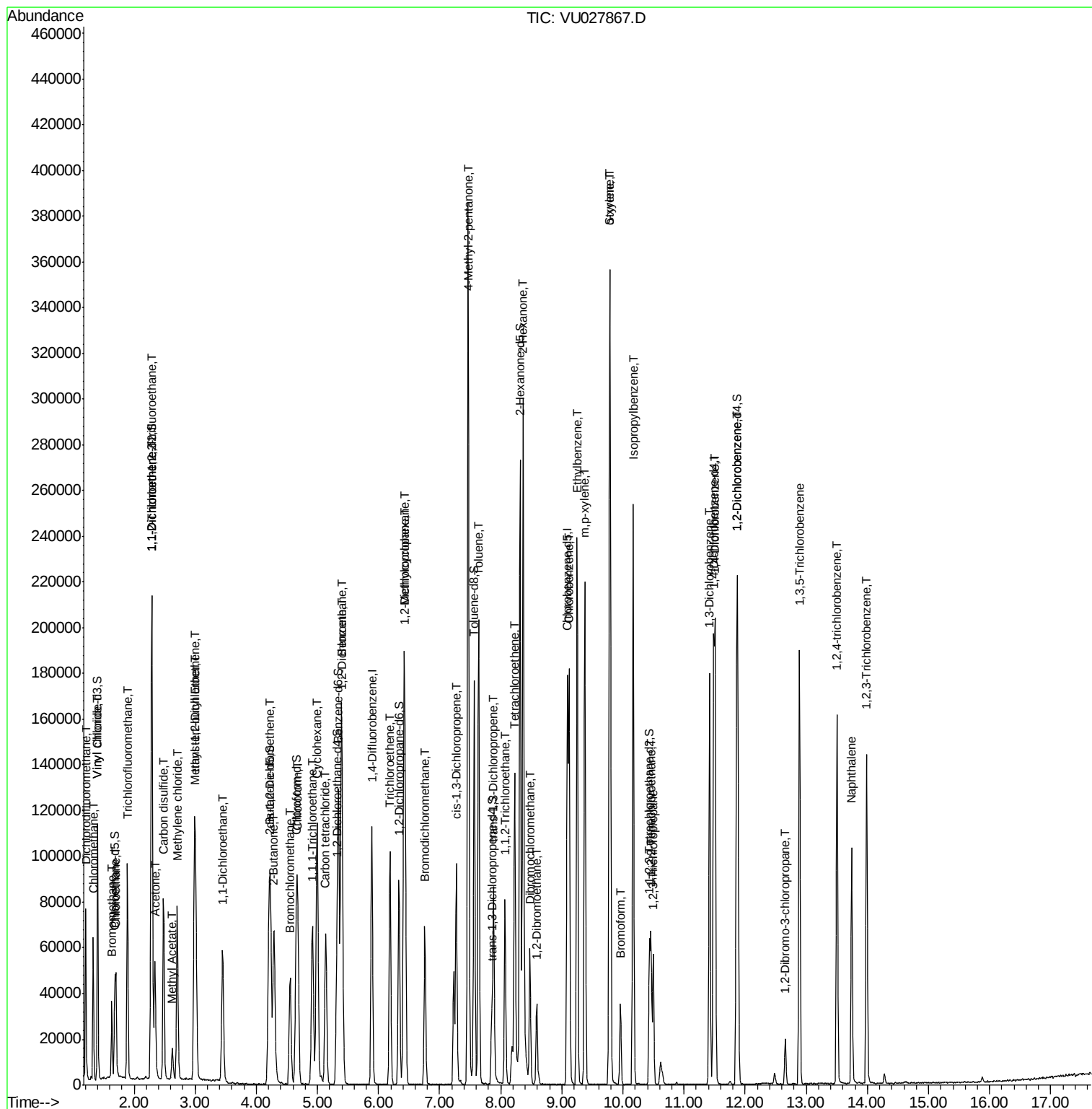
Quant Time: Oct 31 01:46:02 2018

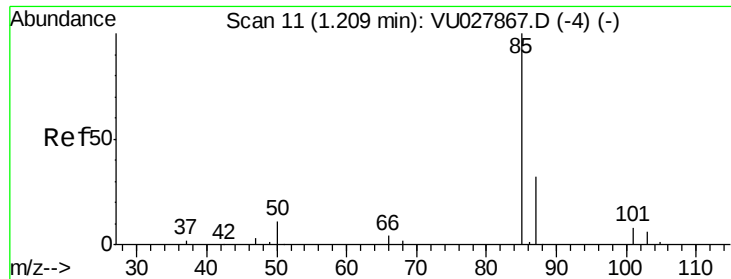
Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A_U\METHOD\SOMUTR103018WMA.M

Quant Title : TRACE VOA SOM01.0

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#2

Dichlorodifluoromethane

Concen: 5.042 ug/L

RT: 1.21 min Scan# 11

Delta R.T. 0.00 min

Lab File: VU027867.D

Acq: 30 Oct 2018 11:28

Instrument :

MSVOA_U

ClientSampleId :

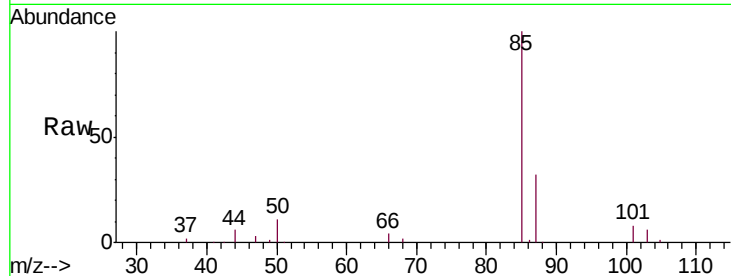
VSTD00545

Tgt Ion: 85 Resp: 44376

Ion Ratio Lower Upper

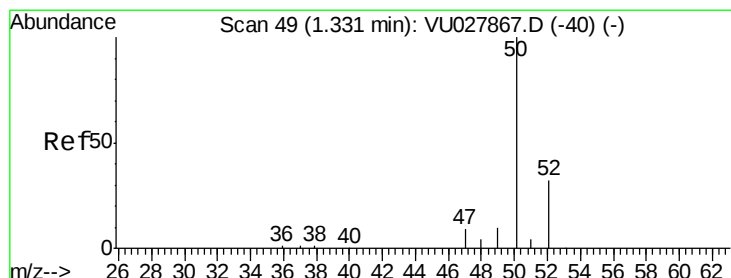
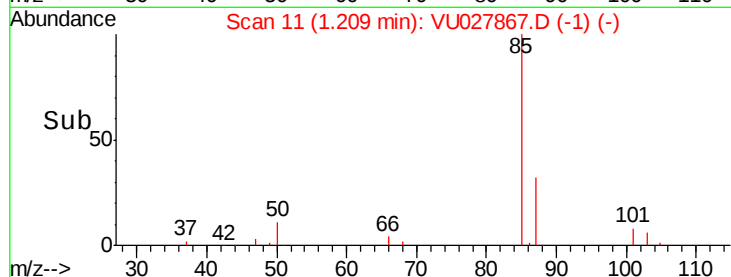
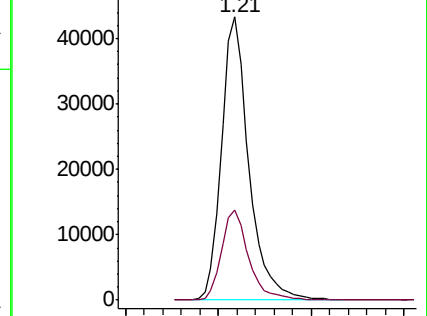
85 100

87 31.5 25.2 37.8



Abundance Ion 85.00 (84.70 to 85.70): VU0

Ion 87.00 (86.70 to 87.70): VU0



#3

Chloromethane

Concen: 4.977 ug/L

RT: 1.33 min Scan# 49

Delta R.T. 0.00 min

Lab File: VU027867.D

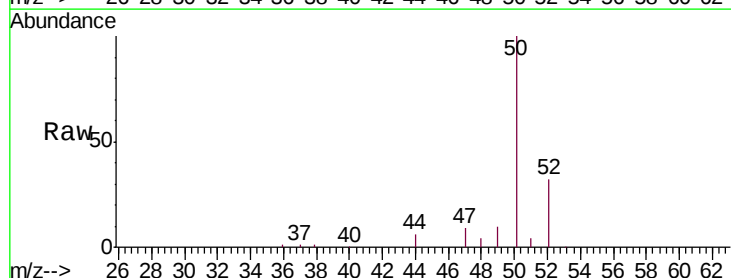
Acq: 30 Oct 2018 11:28

Tgt Ion: 50 Resp: 43443

Ion Ratio Lower Upper

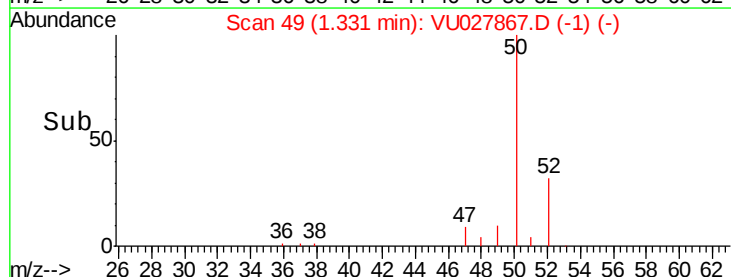
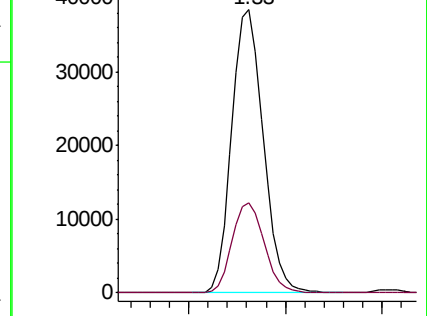
50 100

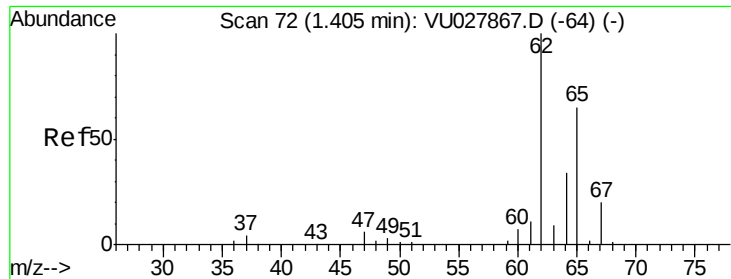
52 31.9 22.3 41.5



Abundance Ion 50.05 (49.75 to 50.75): VU0

Ion 52.05 (51.75 to 52.75): VU0





#5

Vinyl chloride

Concen: 4.980 ug/L

RT: 1.40 min Scan# 72

Delta R.T. 0.00 min

Lab File: VU027867.D

Acq: 30 Oct 2018 11:28

Instrument :

MSVOA_U

ClientSampleId :

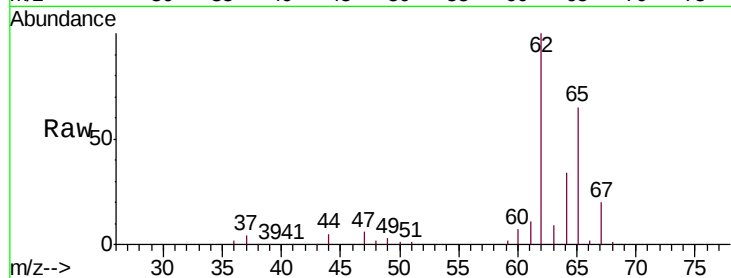
VSTD00545

Tgt Ion: 62 Resp: 43274

Ion Ratio Lower Upper

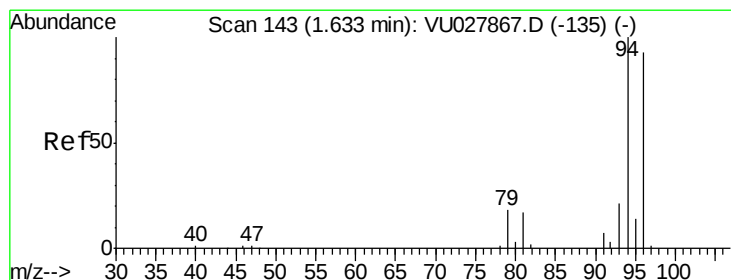
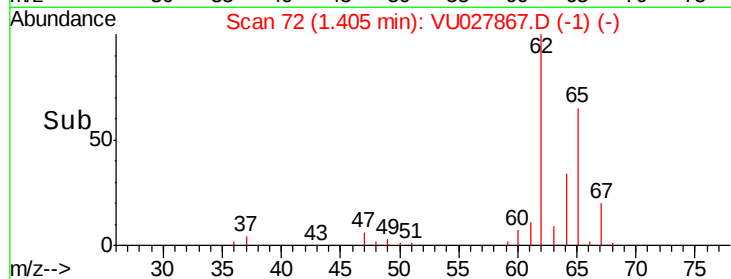
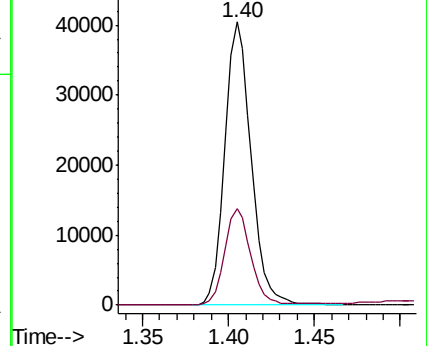
62 100

64 34.3 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: 4.804 ug/L

RT: 1.63 min Scan# 143

Delta R.T. 0.00 min

Lab File: VU027867.D

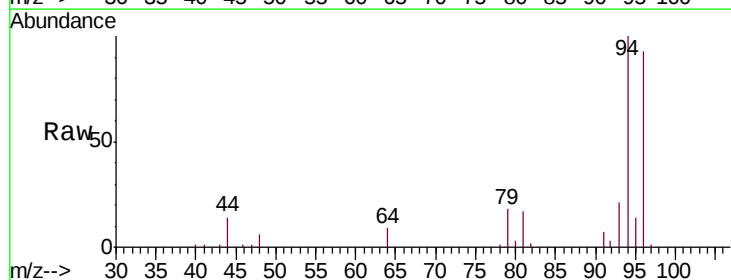
Acq: 30 Oct 2018 11:28

Tgt Ion: 94 Resp: 13717

Ion Ratio Lower Upper

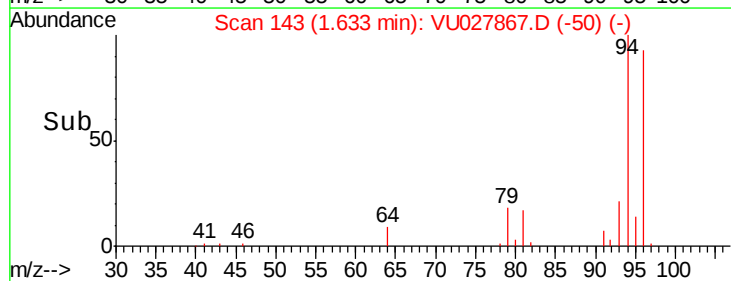
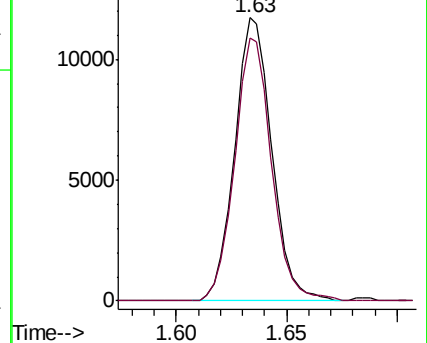
94 100

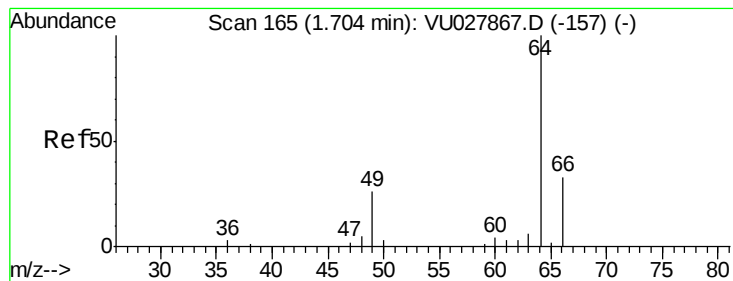
96 92.8 65.0 120.6



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0





#8

Chloroethane

Concen: 4.795 ug/L

RT: 1.70 min Scan# 165

Delta R.T. 0.00 min

Lab File: VU027867.D

Acq: 30 Oct 2018 11:28

Instrument :

MSVOA_U

ClientSampleId :

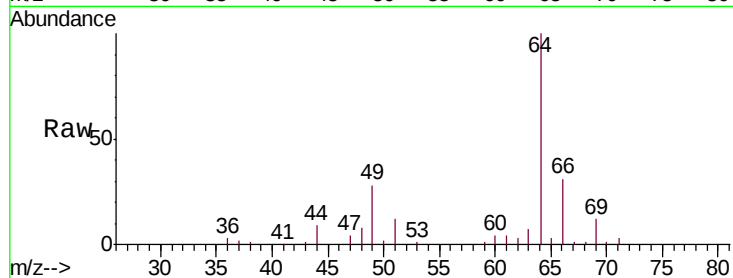
VSTD00545

Tgt Ion: 64 Resp: 24420

Ion Ratio Lower Upper

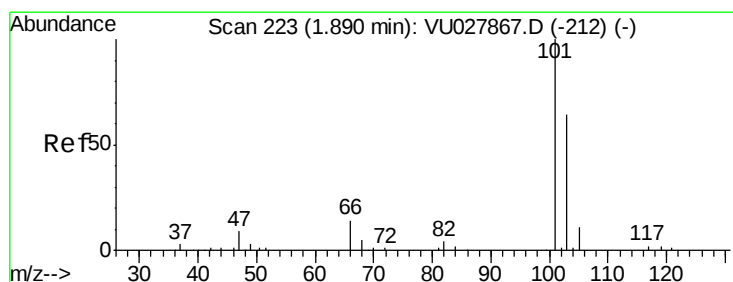
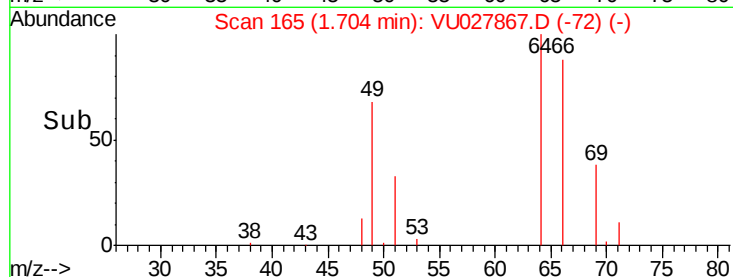
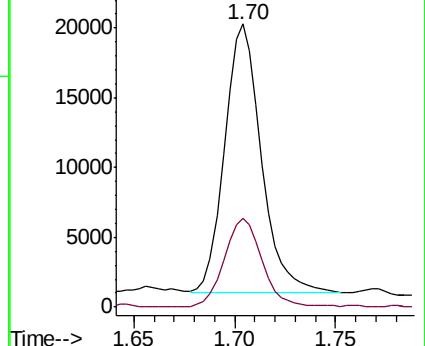
64 100

66 31.2 21.8 40.6



Abundance Ion 64.10 (63.80 to 64.80): VU027867.D (-157) (-)

Ion 66.05 (65.75 to 66.75): VU027867.D (-157) (-)



#9

Trichlorofluoromethane

Concen: 4.971 ug/L

RT: 1.89 min Scan# 223

Delta R.T. 0.00 min

Lab File: VU027867.D

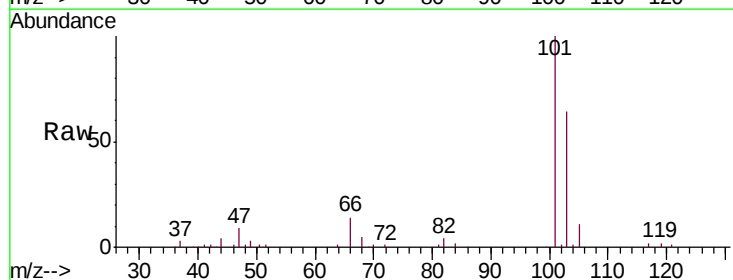
Acq: 30 Oct 2018 11:28

Tgt Ion: 101 Resp: 57345

Ion Ratio Lower Upper

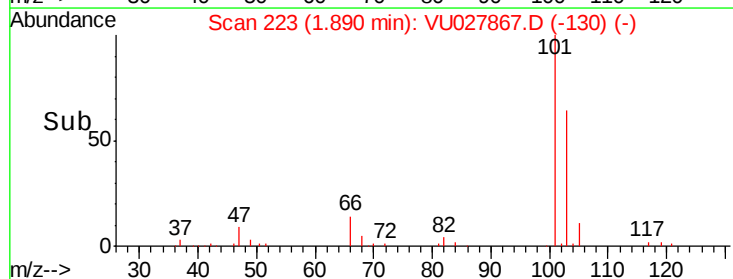
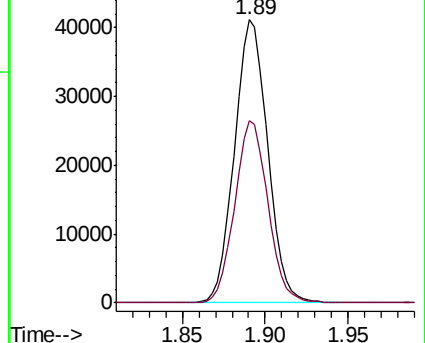
101 100

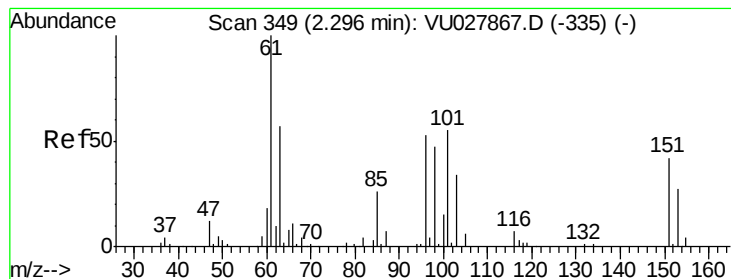
103 64.2 51.4 77.0



Abundance Ion 101.00 (100.70 to 101.70): VU027867.D (-212) (-)

Ion 103.00 (102.70 to 103.70): VU027867.D (-212) (-)





#10

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

Concen: 5.066 ug/L

RT: 2.30 min Scan# 349

Delta R.T. 0.00 min

Lab File: VU027867.D

Acq: 30 Oct 2018 11:28

Instrument :

MSVOA_U

ClientSampleId :

VSTD00545

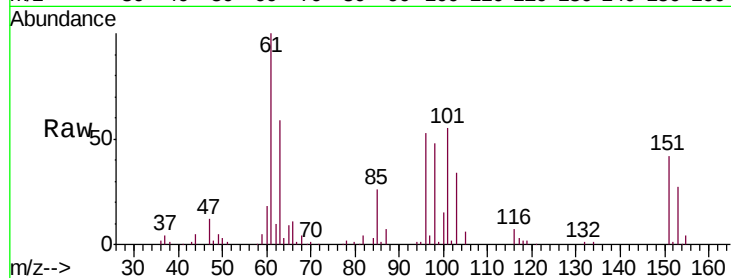
Tgt Ion: 101 Resp: 29823

Ion Ratio Lower Upper

101 100

85 46.4 37.1 55.7

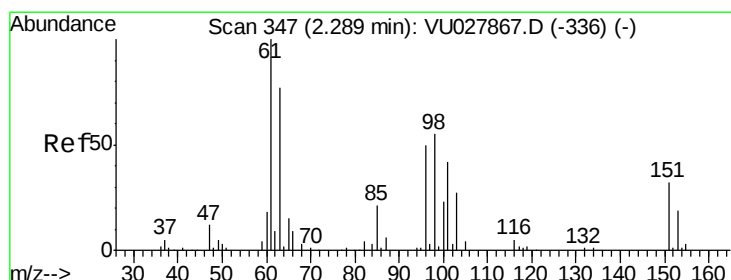
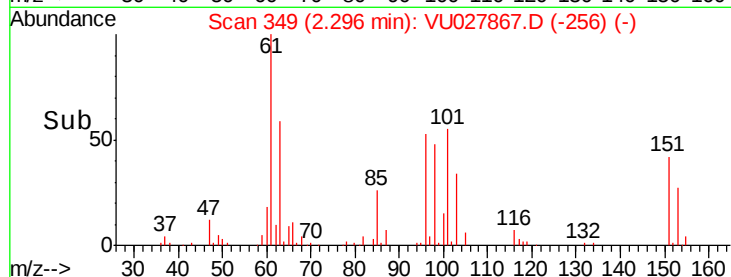
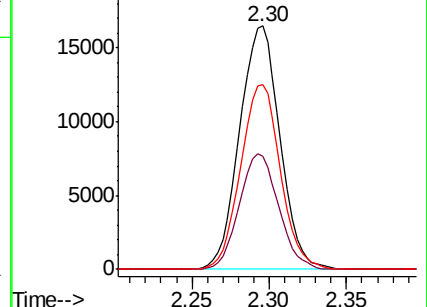
151 74.9 59.9 89.9



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: 4.952 ug/L

RT: 2.29 min Scan# 347

Delta R.T. 0.00 min

Lab File: VU027867.D

Acq: 30 Oct 2018 11:28

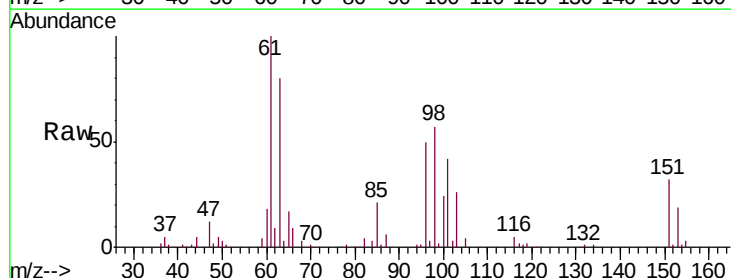
Tgt Ion: 96 Resp: 27498

Ion Ratio Lower Upper

96 100

61 201.6 141.1 262.1

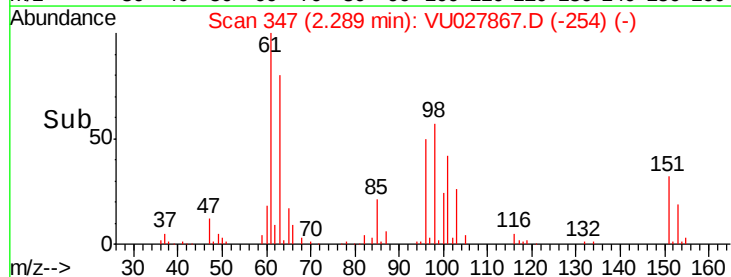
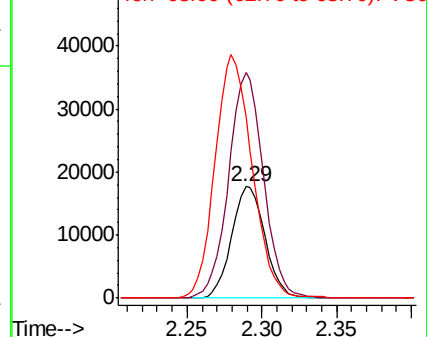
63 161.5 113.0 209.9

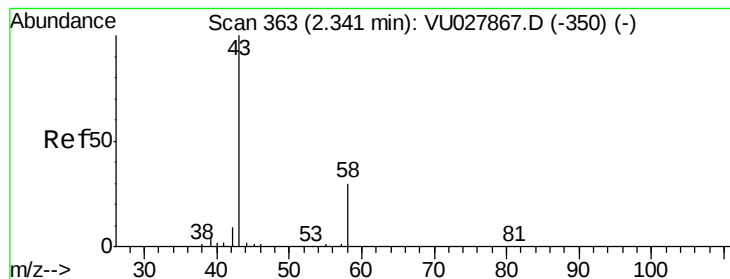


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 47.874 ug/L

RT: 2.34 min Scan# 363

Delta R.T. 0.00 min

Lab File: VU027867.D

Acq: 30 Oct 2018 11:28

Instrument :

MSVOA_U

ClientSampleId :

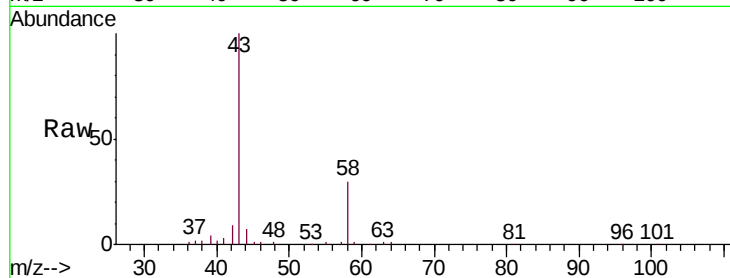
VSTD00545

Tgt Ion: 43 Resp: 62880

Ion Ratio Lower Upper

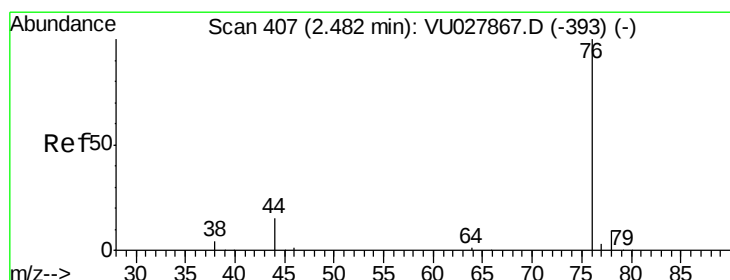
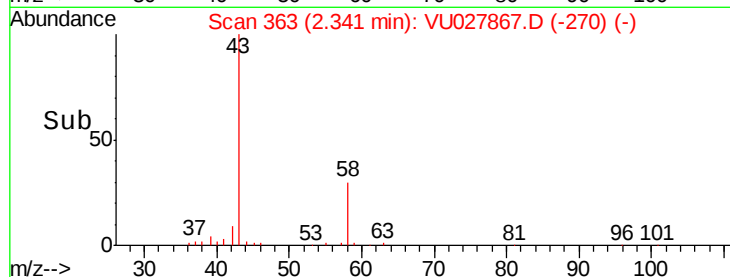
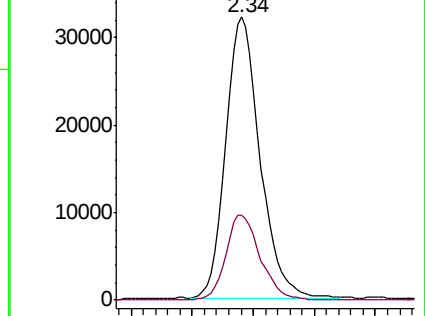
43 100

58 30.7 0.0 61.4



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0



#14

Carbon disulfide

Concen: 4.850 ug/L

RT: 2.48 min Scan# 407

Delta R.T. 0.00 min

Lab File: VU027867.D

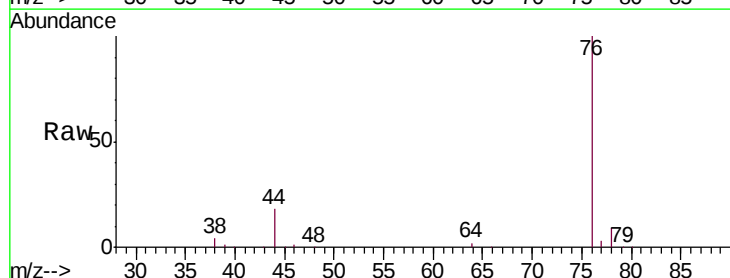
Acq: 30 Oct 2018 11:28

Tgt Ion: 76 Resp: 96203

Ion Ratio Lower Upper

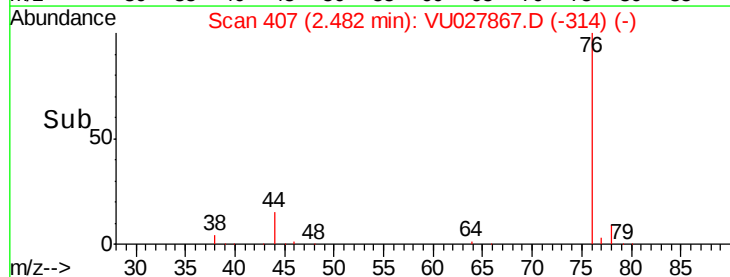
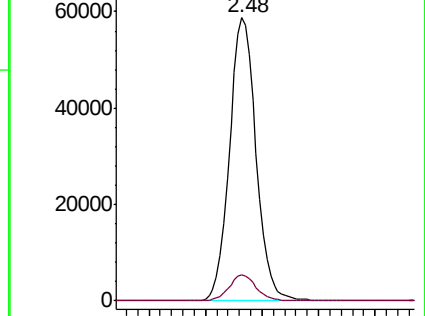
76 100

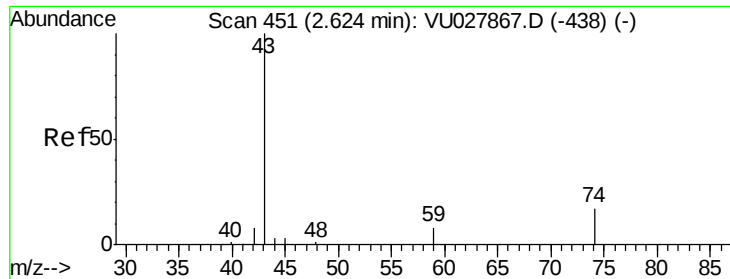
78 9.4 7.5 11.3



Abundance Ion 76.05 (75.75 to 76.75): VU0

Ion 78.00 (77.70 to 78.70): VU0

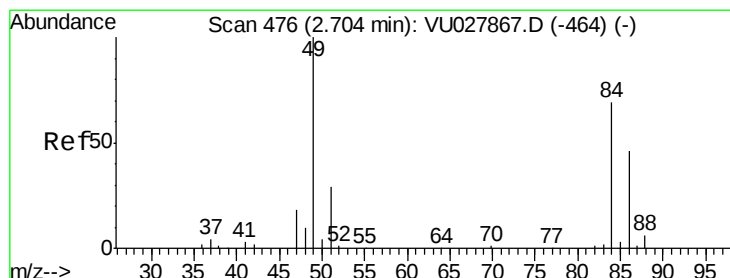
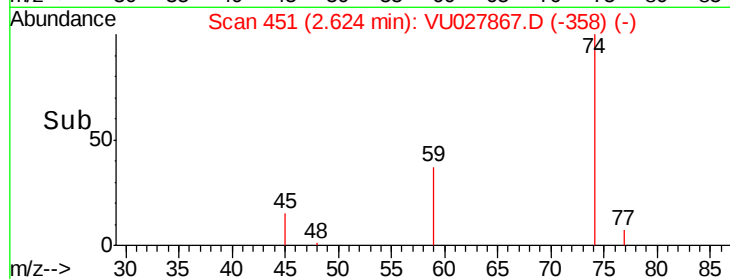
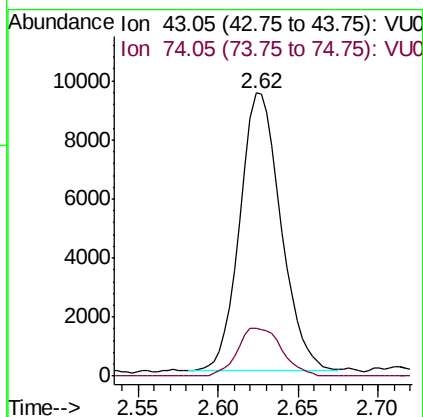
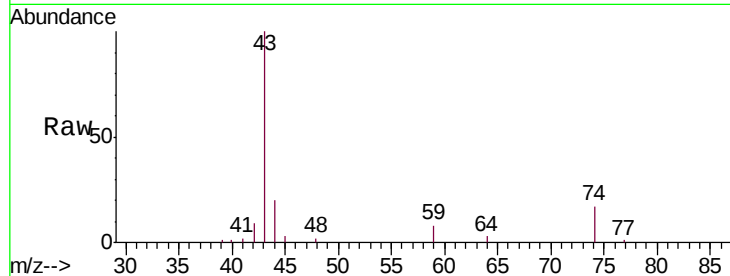




#15
Methyl Acetate
Concen: 4.700 ug/L
RT: 2.62 min Scan# 451
Delta R.T. 0.00 min
Lab File: VU027867.D
Acq: 30 Oct 2018 11:28

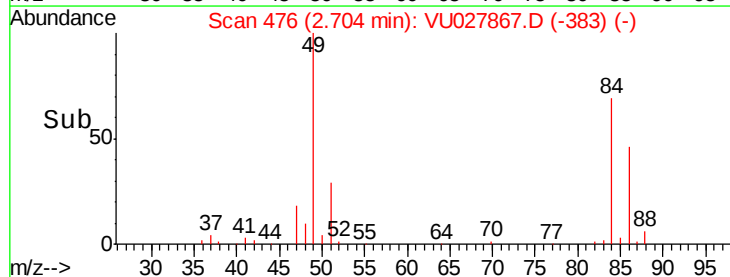
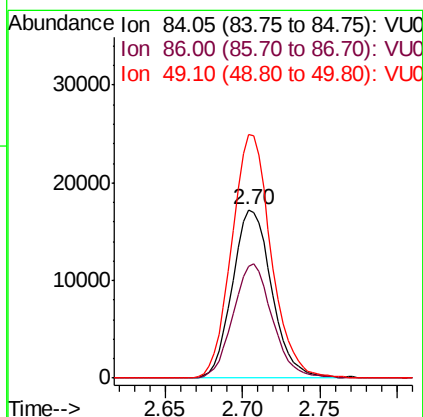
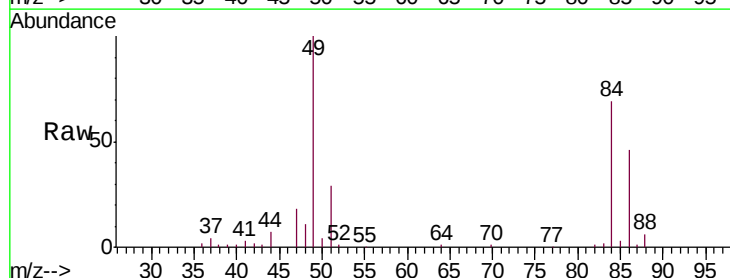
Instrument :
MSVOA_U
ClientSampleId :
VSTD00545

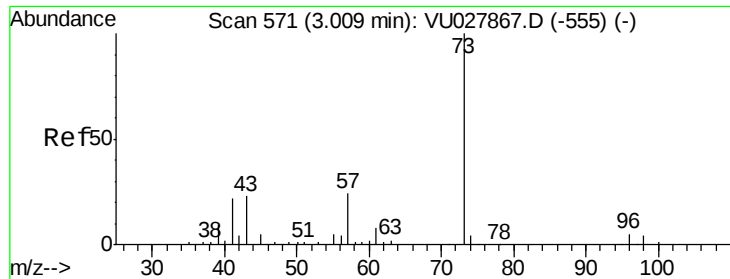
Tgt Ion: 43 Resp: 16526
Ion Ratio Lower Upper
43 100
74 18.6 14.9 22.3



#16
Methylene chloride
Concen: 4.893 ug/L
RT: 2.70 min Scan# 476
Delta R.T. 0.00 min
Lab File: VU027867.D
Acq: 30 Oct 2018 11:28

Tgt Ion: 84 Resp: 30526
Ion Ratio Lower Upper
84 100
86 66.7 46.7 86.7
49 144.7 101.3 188.1

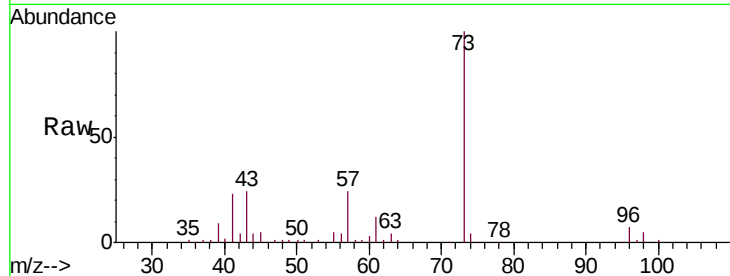




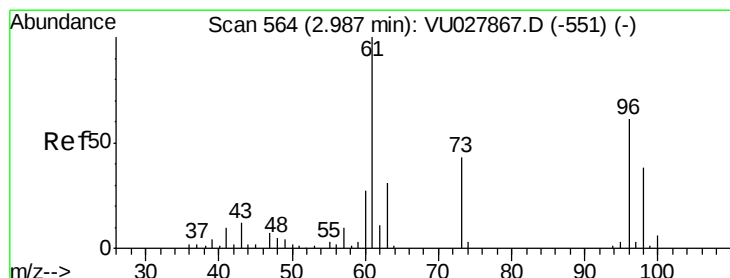
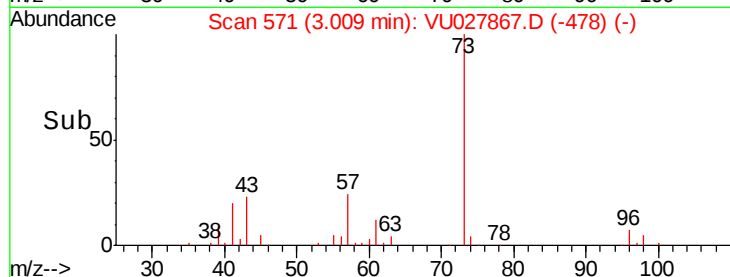
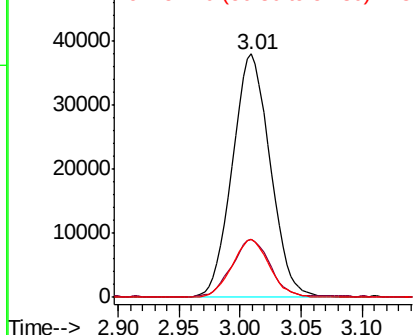
#17
Methyl tert-butyl Ether
Concen: 4.929 ug/L
RT: 3.01 min Scan# 571
Delta R.T. 0.00 min
Lab File: VU027867.D
Acq: 30 Oct 2018 11:28

Instrument :
MSVOA_U
ClientSampleId :
VSTD00545

Tgt Ion: 73 Resp: 81598
Ion Ratio Lower Upper
73 100
43 23.4 18.7 28.1
57 23.4 18.7 28.1

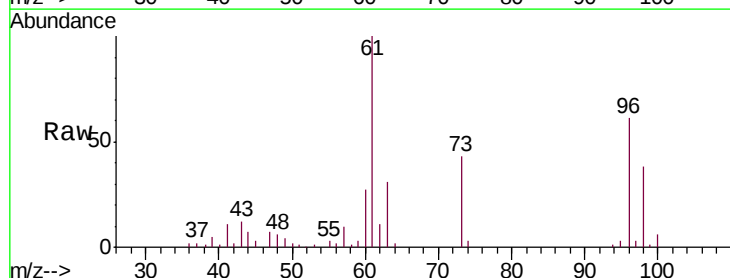


Abundance Ion 73.10 (72.80 to 73.80): VU0
Ion 43.05 (42.75 to 43.75): VU0
Ion 57.10 (56.80 to 57.80): VU0

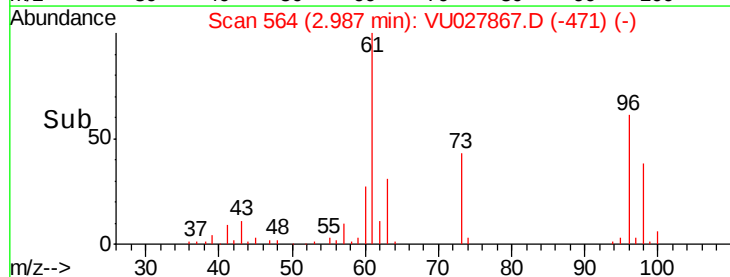
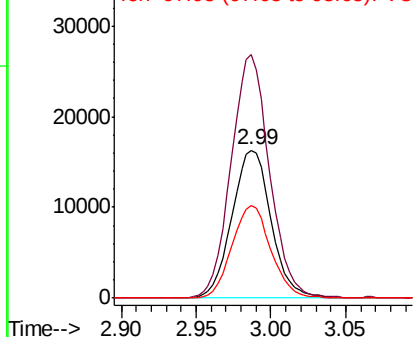


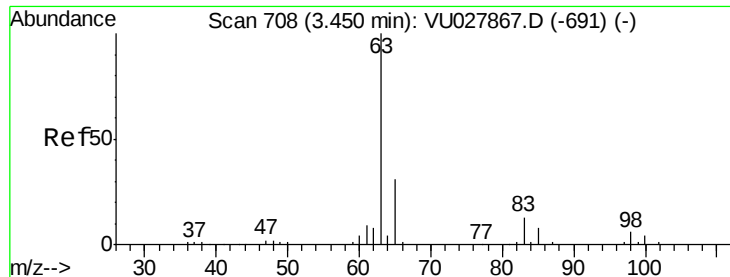
#18
trans-1,2-Dichloroethene
Concen: 5.033 ug/L
RT: 2.99 min Scan# 564
Delta R.T. 0.00 min
Lab File: VU027867.D
Acq: 30 Oct 2018 11:28

Tgt Ion: 96 Resp: 29706
Ion Ratio Lower Upper
96 100
61 164.6 115.2 214.0
98 62.9 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

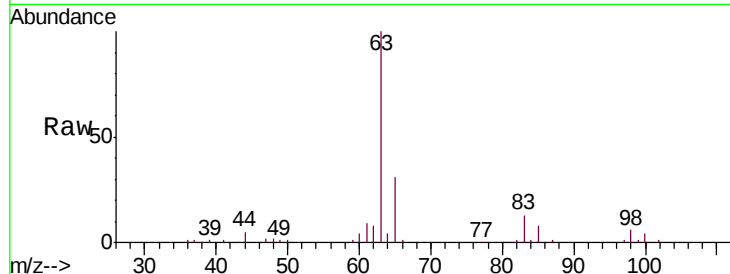




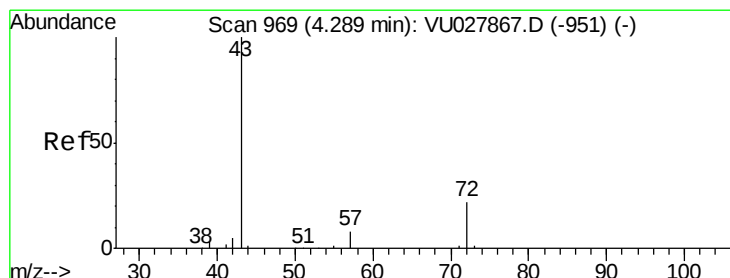
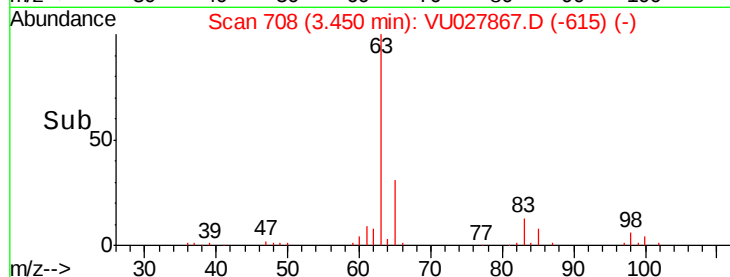
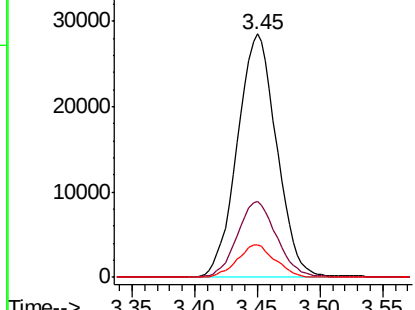
#19
 1,1-Dichloroethane
 Concen: 4.984 ug/L
 RT: 3.45 min Scan# 708
 Delta R.T. 0.00 min
 Lab File: VU027867.D
 Acq: 30 Oct 2018 11:28

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00545

Tgt Ion: 63 Resp: 62100
 Ion Ratio Lower Upper
 63 100
 65 31.1 21.8 40.4
 83 13.4 9.4 17.4

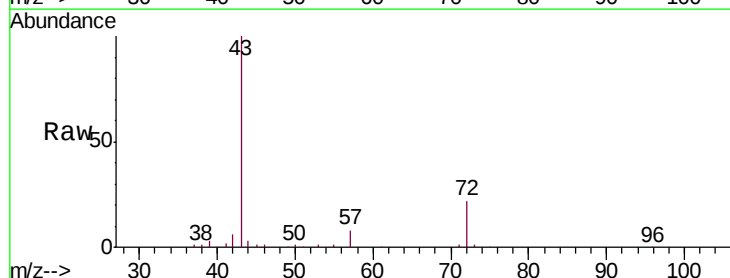


Abundance Ion 63.10 (62.80 to 63.80): VU0
 Ion 65.10 (64.80 to 65.80): VU0
 Ion 83.05 (82.75 to 83.75): VU0

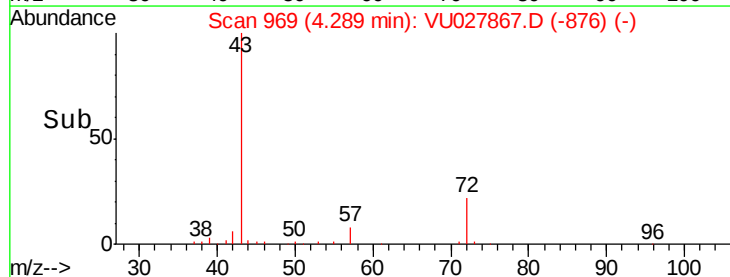
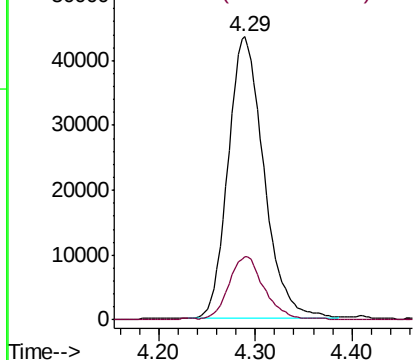


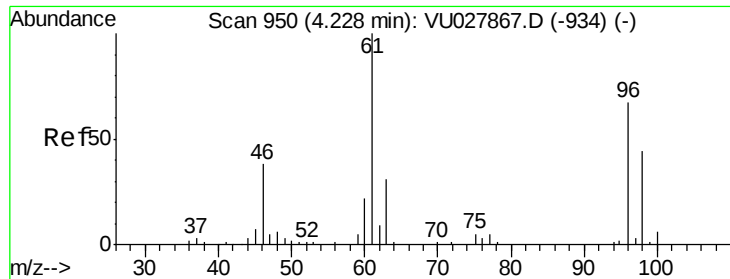
#21
 2-Butanone
 Concen: 49.058 ug/L
 RT: 4.29 min Scan# 969
 Delta R.T. 0.00 min
 Lab File: VU027867.D
 Acq: 30 Oct 2018 11:28

Tgt Ion: 43 Resp: 112030
 Ion Ratio Lower Upper
 43 100
 72 21.9 10.9 32.9



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



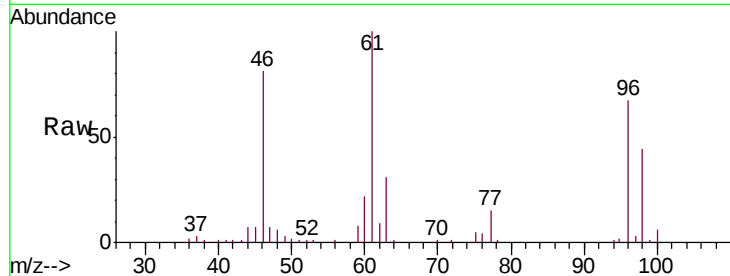


#22

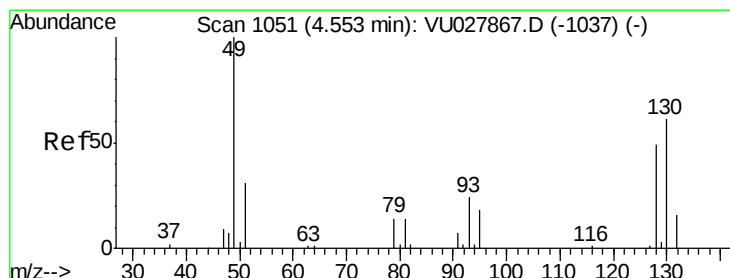
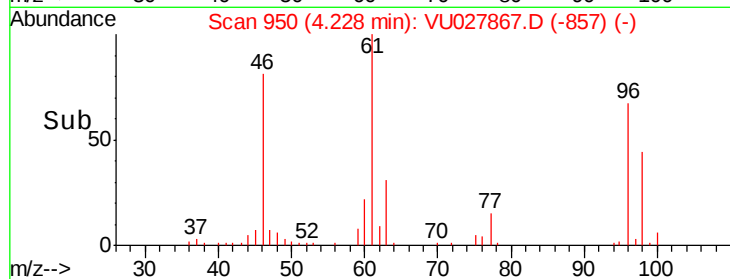
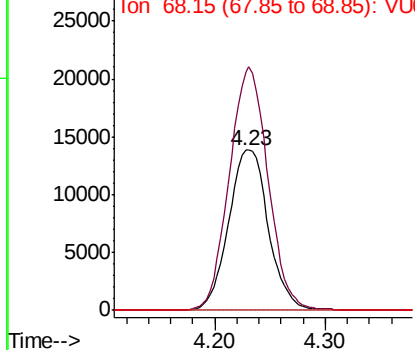
cis-1,2-Dichloroethene
Concen: 5.066 ug/L
RT: 4.23 min Scan# 950
Delta R.T. 0.00 min
Lab File: VU027867.D
Acq: 30 Oct 2018 11:28

Instrument :
MSVOA_U
ClientSampleId :
VSTD00545

Tgt Ion: 96 Resp: 34561
Ion Ratio Lower Upper
96 100
61 148.6 104.0 193.2
68 0.0 0.0 0.0



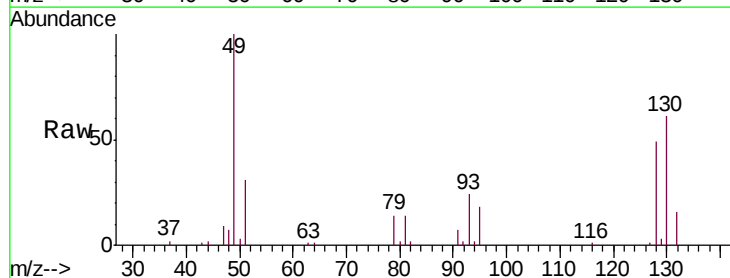
Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.05 (60.75 to 61.75): VU0
Ion 68.15 (67.85 to 68.85): VU0



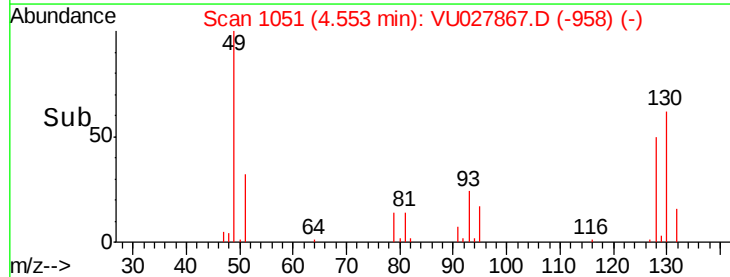
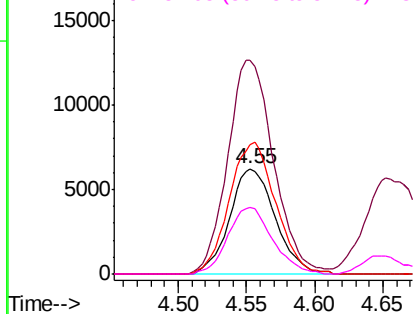
#23

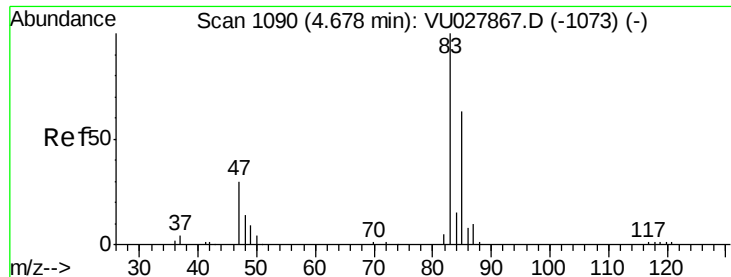
Bromochloromethane
Concen: 5.127 ug/L
RT: 4.55 min Scan# 1051
Delta R.T. 0.00 min
Lab File: VU027867.D
Acq: 30 Oct 2018 11:28

Tgt Ion: 128 Resp: 14494
Ion Ratio Lower Upper
128 100
49 202.9 142.0 263.8
130 123.0 86.1 159.9
51 63.0 50.4 75.6



Abundance Ion 127.90 (127.60 to 128.60): V
Ion 49.10 (48.80 to 49.80): VU0
Ion 129.95 (129.65 to 130.65): V
Ion 51.05 (50.75 to 51.75): VU0

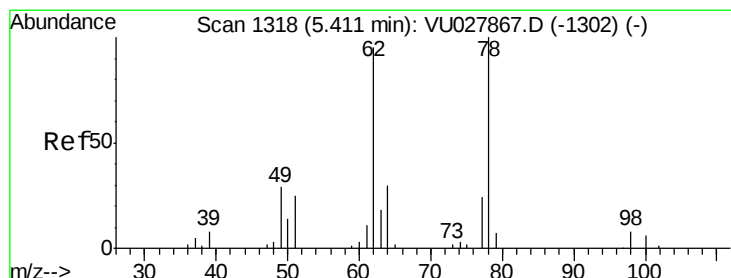
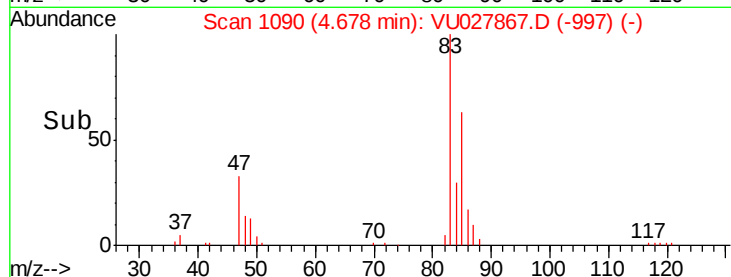
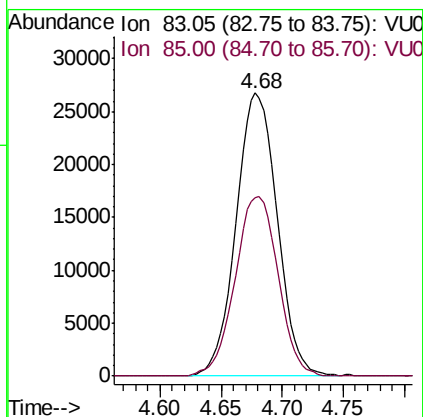
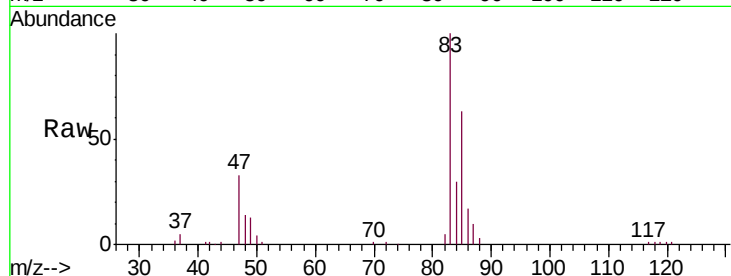




#25
Chloroform
Concen: 4.948 ug/L
RT: 4.68 min Scan# 1090
Delta R.T. 0.00 min
Lab File: VU027867.D
Acq: 30 Oct 2018 11:28

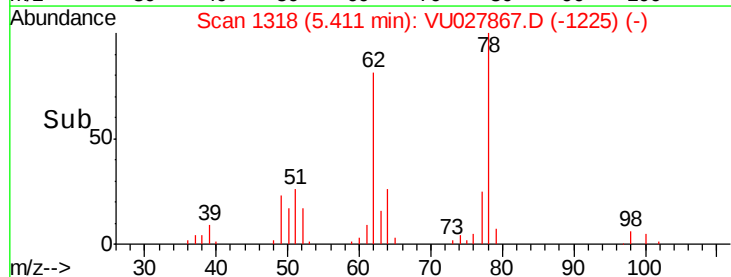
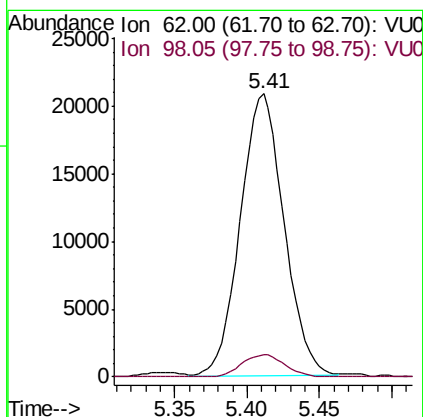
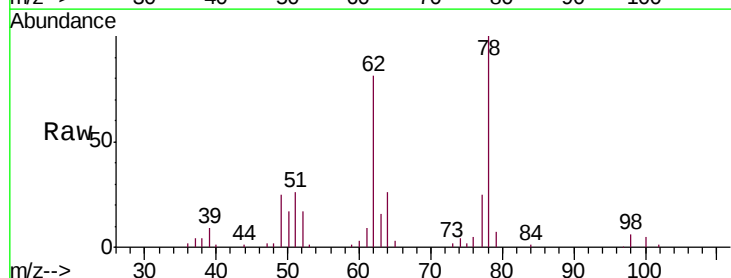
Instrument :
MSVOA_U
ClientSampleId :
VSTD00545

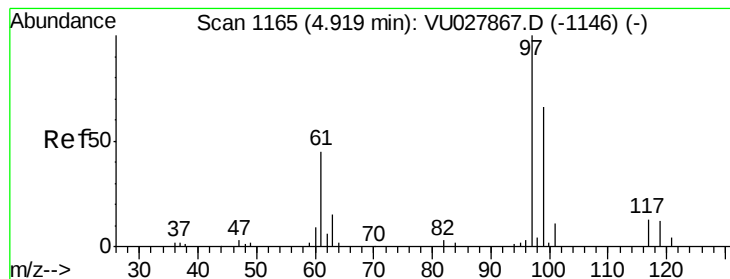
Tgt Ion: 83 Resp: 62503
Ion Ratio Lower Upper
83 100
85 62.9 44.0 81.8



#27
1,2-Dichloroethane
Concen: 4.937 ug/L
RT: 5.41 min Scan# 1318
Delta R.T. 0.00 min
Lab File: VU027867.D
Acq: 30 Oct 2018 11:28

Tgt Ion: 62 Resp: 43526
Ion Ratio Lower Upper
62 100
98 7.9 6.3 9.5





#29

1,1,1-Trichloroethane

Concen: 5.045 ug/L

RT: 4.92 min Scan# 1165

Delta R.T. 0.00 min

Lab File: VU027867.D

Acq: 30 Oct 2018 11:28

Instrument :

MSVOA_U

ClientSampleId :

VSTD00545

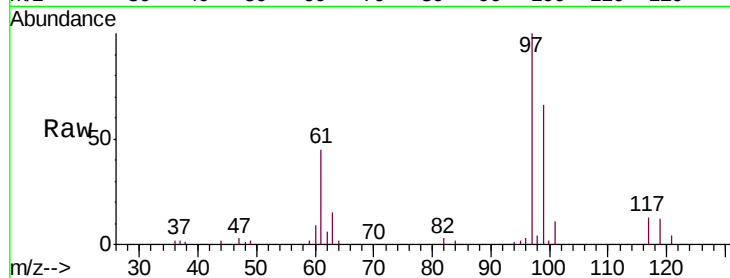
Tgt Ion: 97 Resp: 56373

Ion Ratio Lower Upper

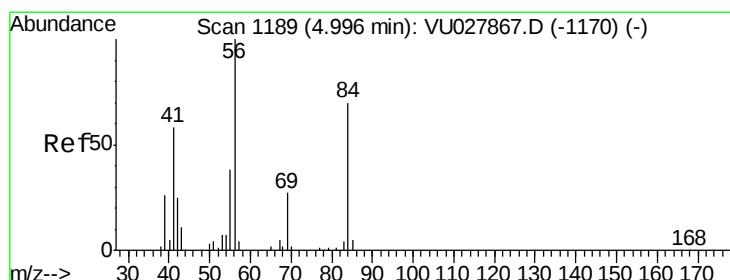
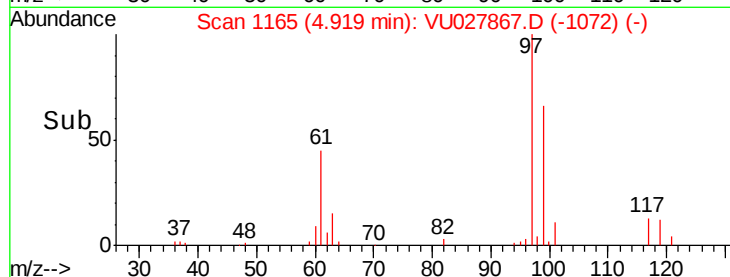
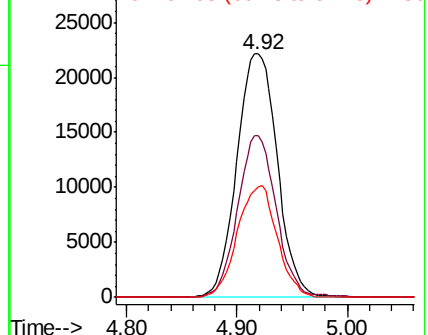
97 100

99 63.3 50.6 76.0

61 44.7 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: 4.971 ug/L

RT: 5.00 min Scan# 1189

Delta R.T. 0.00 min

Lab File: VU027867.D

Acq: 30 Oct 2018 11:28

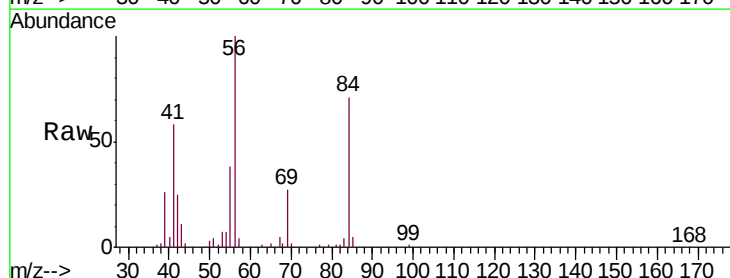
Tgt Ion: 56 Resp: 65262

Ion Ratio Lower Upper

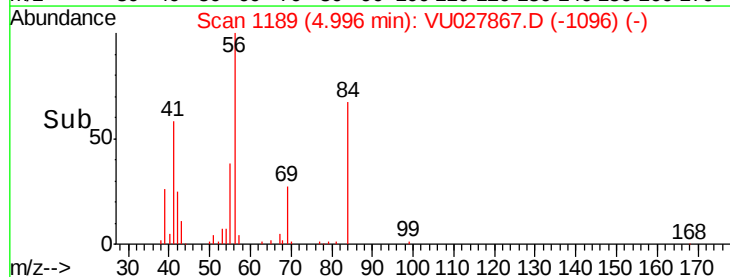
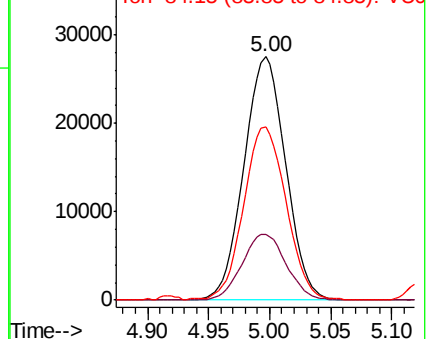
56 100

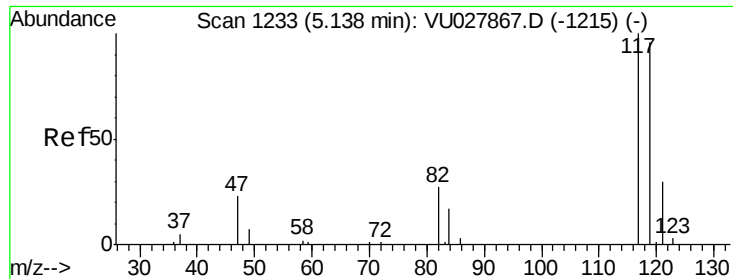
69 28.4 22.7 34.1

84 72.6 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: 4.951 ug/L

RT: 5.14 min Scan# 1233

Delta R.T. 0.00 min

Lab File: VU027867.D

Acq: 30 Oct 2018 11:28

Instrument :

MSVOA_U

ClientSampleId :

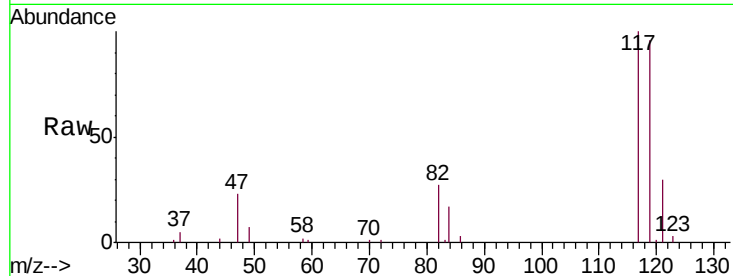
VSTD00545

Tgt Ion:117 Resp: 47471

Ion Ratio Lower Upper

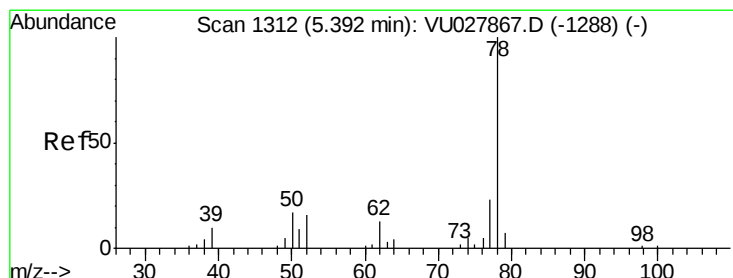
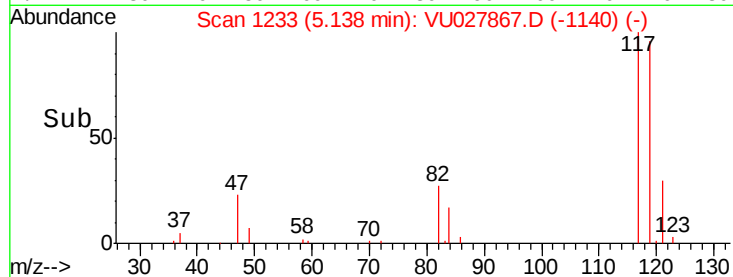
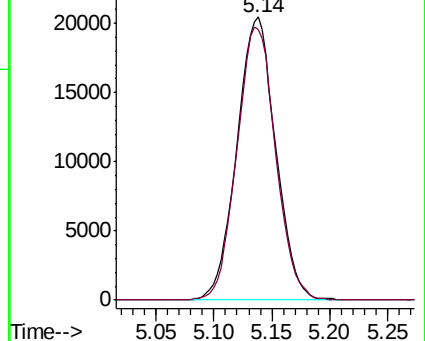
117 100

119 96.4 77.1 115.7



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 4.983 ug/L

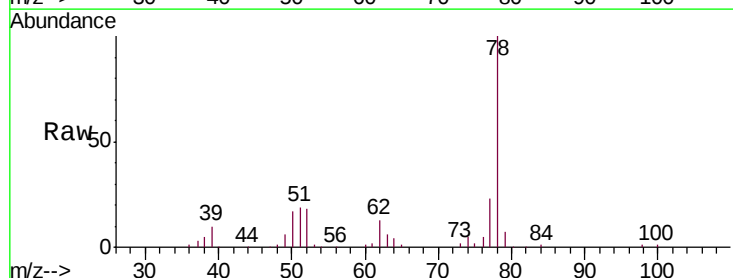
RT: 5.39 min Scan# 1312

Delta R.T. 0.00 min

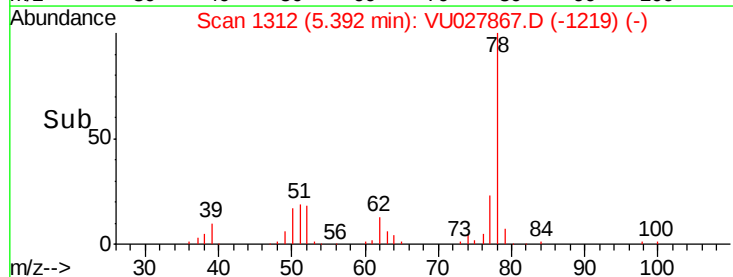
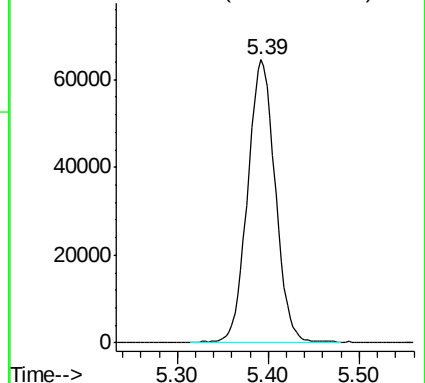
Lab File: VU027867.D

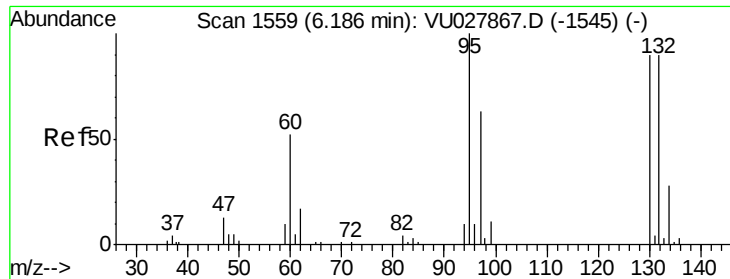
Acq: 30 Oct 2018 11:28

Tgt Ion: 78 Resp: 136626



Abundance Ion 78.10 (77.80 to 78.80): VU0





#34

Trichloroethene

Concen: 5.047 ug/L

RT: 6.19 min Scan# 1559

Delta R.T. 0.00 min

Lab File: VU027867.D

Acq: 30 Oct 2018 11:28

Instrument :

MSVOA_U

ClientSampleId :

VSTD00545

Tgt Ion: 95 Resp: 36020

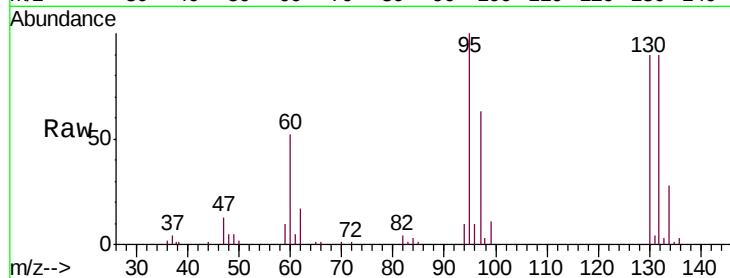
Ion Ratio Lower Upper

95 100

97 62.8 44.0 81.6

132 90.4 63.3 117.5

130 90.2 63.1 117.3

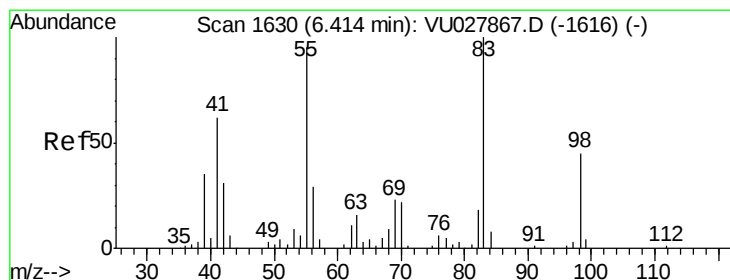
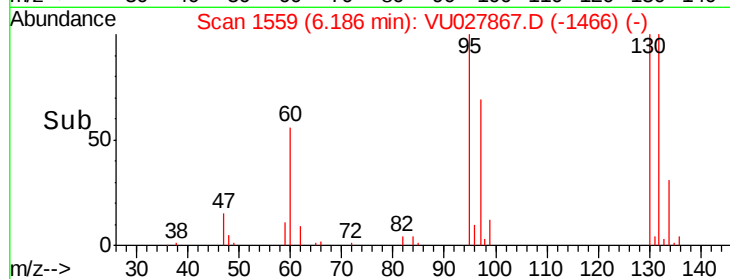
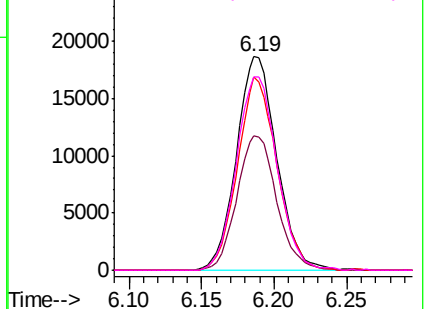


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V



#35

Methylcyclohexane

Concen: 4.974 ug/L

RT: 6.41 min Scan# 1630

Delta R.T. 0.00 min

Lab File: VU027867.D

Acq: 30 Oct 2018 11:28

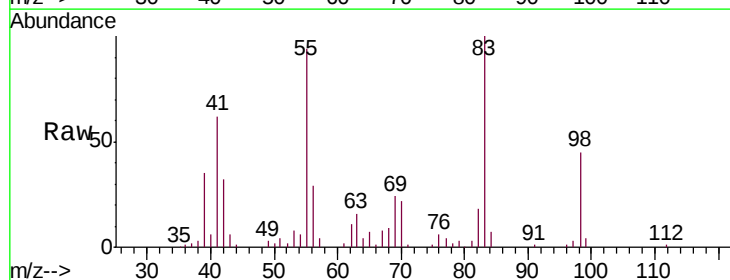
Tgt Ion: 83 Resp: 60386

Ion Ratio Lower Upper

83 100

55 91.7 73.4 110.0

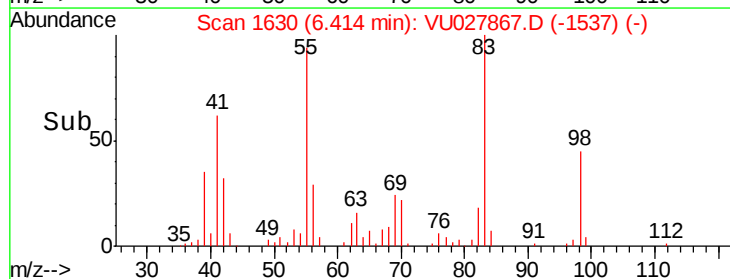
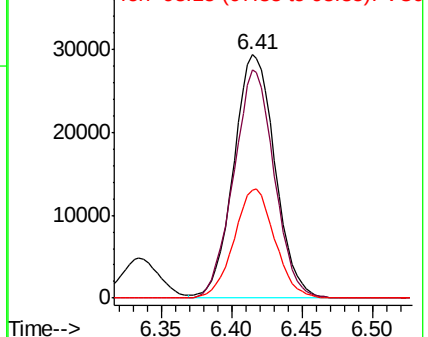
98 44.1 35.3 52.9

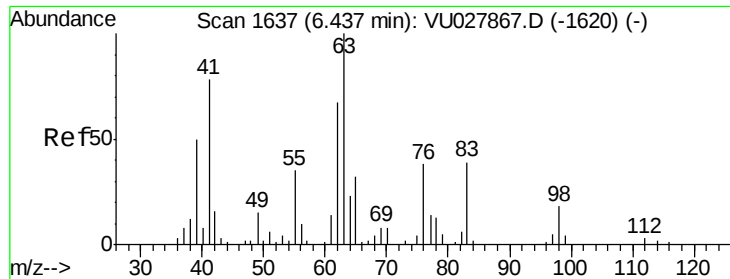


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0

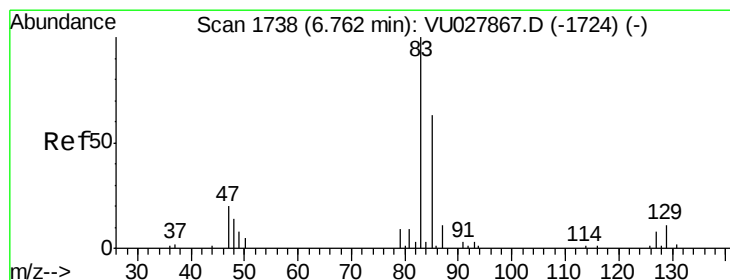
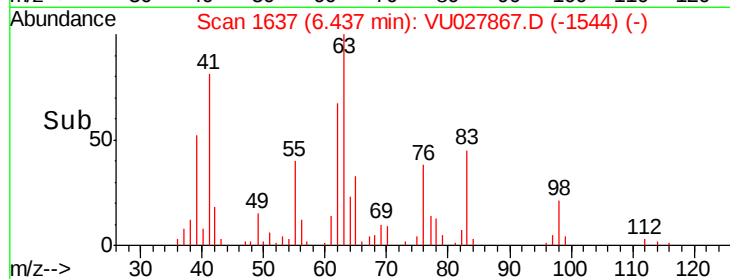
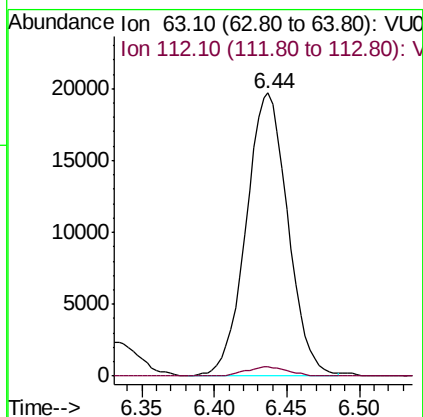
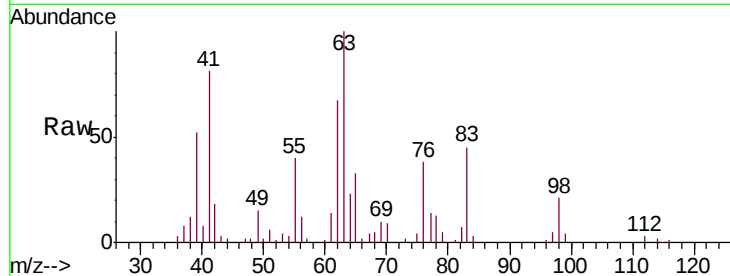




#37
 1,2-Dichloropropane
 Concen: 5.063 ug/L
 RT: 6.44 min Scan# 1637
 Delta R.T. 0.00 min
 Lab File: VU027867.D
 Acq: 30 Oct 2018 11:28

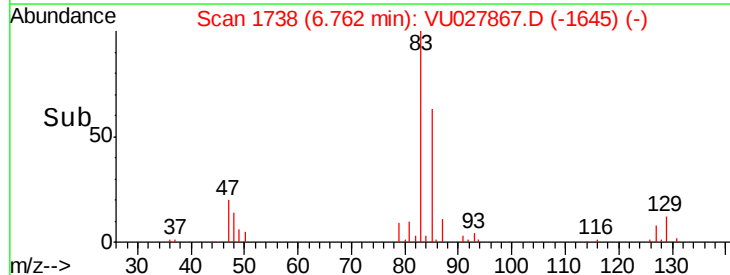
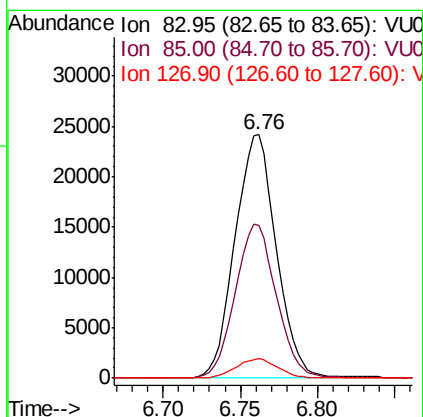
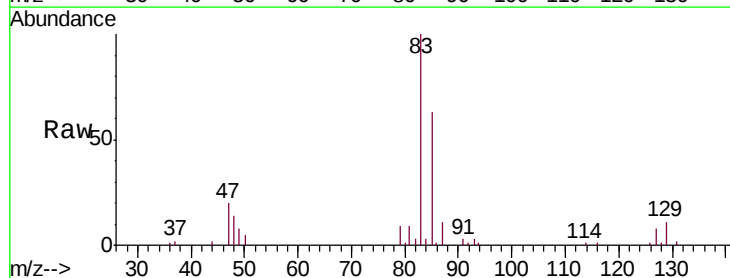
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00545

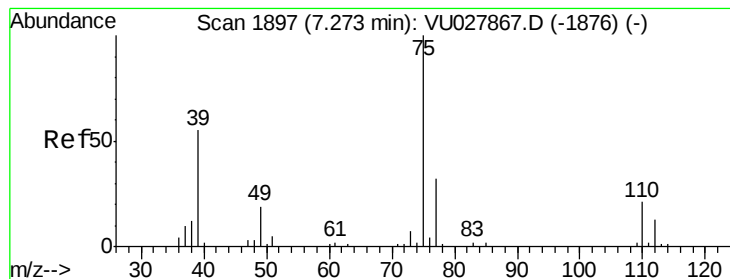
Tgt Ion: 63 Resp: 39546
 Ion Ratio Lower Upper
 63 100
 112 3.2 2.6 3.8



#38
 Bromodichloromethane
 Concen: 4.909 ug/L
 RT: 6.76 min Scan# 1738
 Delta R.T. 0.00 min
 Lab File: VU027867.D
 Acq: 30 Oct 2018 11:28

Tgt Ion: 83 Resp: 44826
 Ion Ratio Lower Upper
 83 100
 85 62.6 43.8 81.4
 127 8.0 6.4 9.6





#39

cis-1,3-Dichloropropene

Concen: 5.039 ug/L

RT: 7.27 min Scan# 1897

Delta R.T. 0.00 min

Lab File: VU027867.D

Acq: 30 Oct 2018 11:28

Instrument :

MSVOA_U

ClientSampleId :

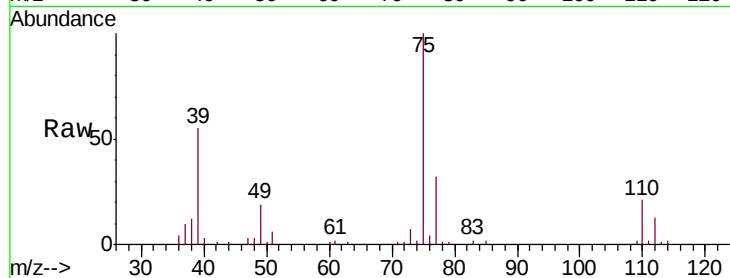
VSTD00545

Tgt Ion: 75 Resp: 56413

Ion Ratio Lower Upper

75 100

77 31.7 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) (-)

7.27

30000

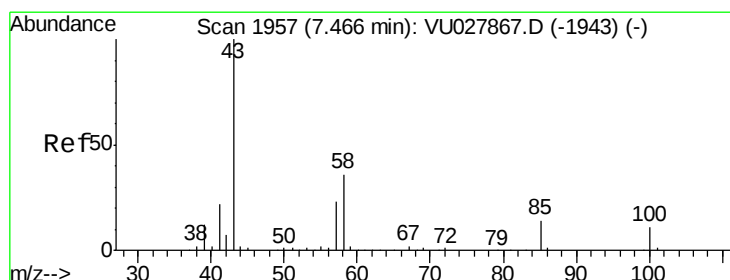
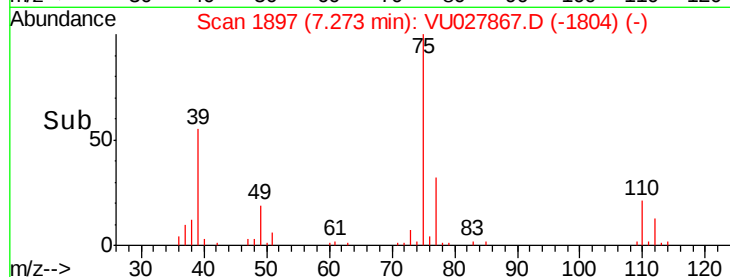
20000

10000

0

Time-->

7.20 7.30



#40

4-Methyl-2-pentanone

Concen: 50.055 ug/L

RT: 7.47 min Scan# 1957

Delta R.T. 0.00 min

Lab File: VU027867.D

Acq: 30 Oct 2018 11:28

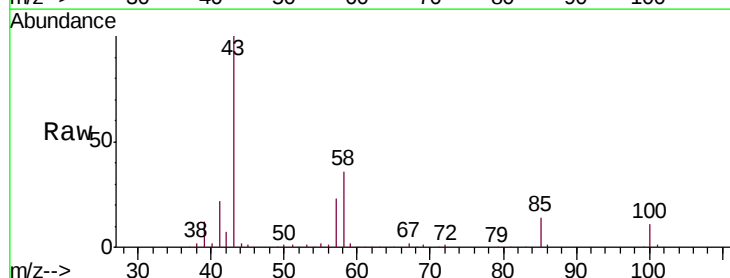
Tgt Ion: 43 Resp: 276216

Ion Ratio Lower Upper

43 100

58 35.6 28.5 42.7

100 11.0 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) (-)

7.47

200000

150000

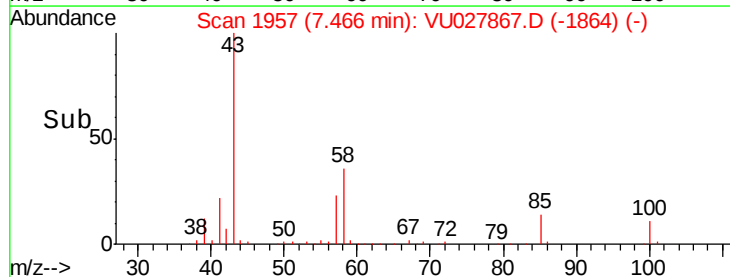
100000

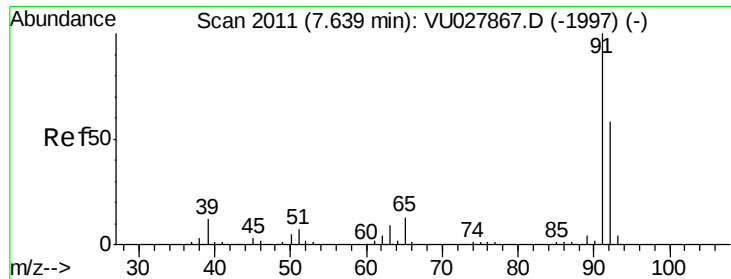
50000

0

Time-->

7.40 7.45 7.50 7.55





#42

Toluene

Concen: 4.936 ug/L

RT: 7.64 min Scan# 2011

Delta R.T. 0.00 min

Lab File: VU027867.D

Acq: 30 Oct 2018 11:28

Instrument :

MSVOA_U

ClientSampleId :

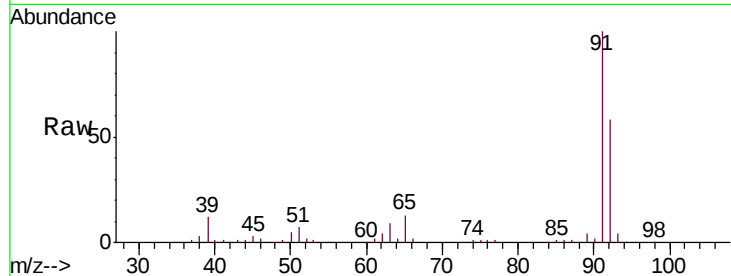
VSTD00545

Tgt Ion: 91 Resp: 141591

Ion Ratio Lower Upper

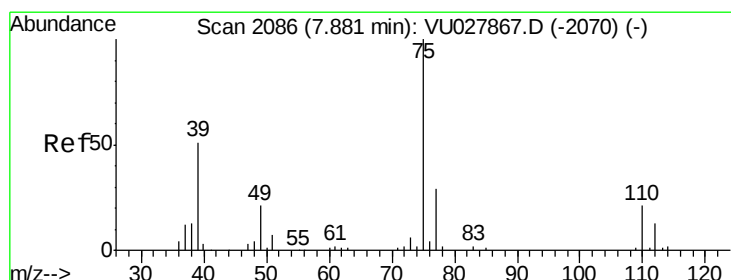
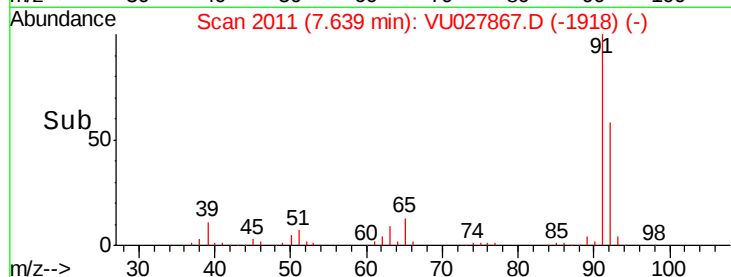
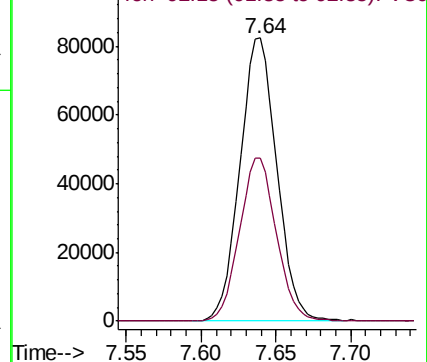
91 100

92 57.6 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: 4.863 ug/L

RT: 7.88 min Scan# 2086

Delta R.T. 0.00 min

Lab File: VU027867.D

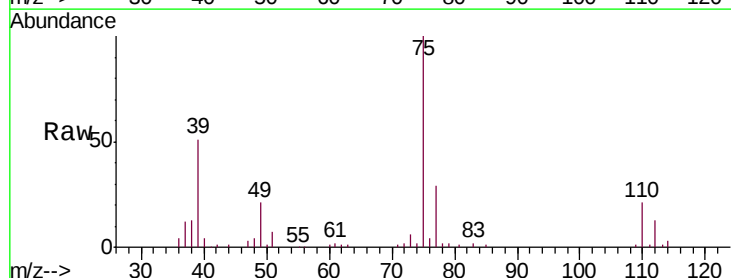
Acq: 30 Oct 2018 11:28

Tgt Ion: 75 Resp: 46705

Ion Ratio Lower Upper

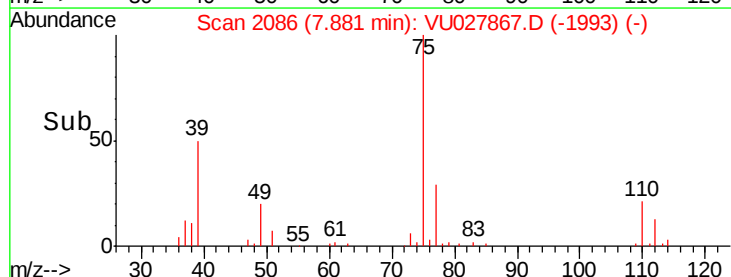
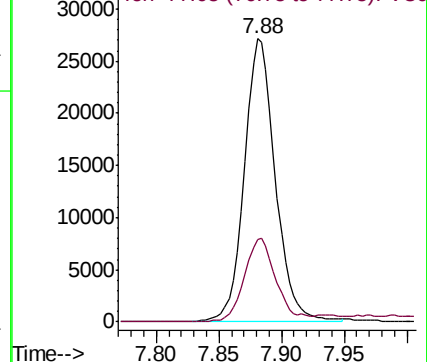
75 100

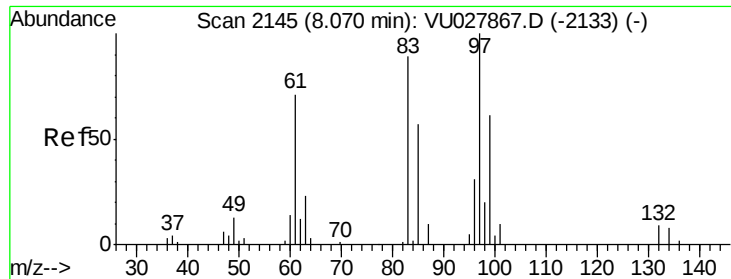
77 29.3 20.5 38.1



Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 77.05 (76.75 to 77.75): VU0

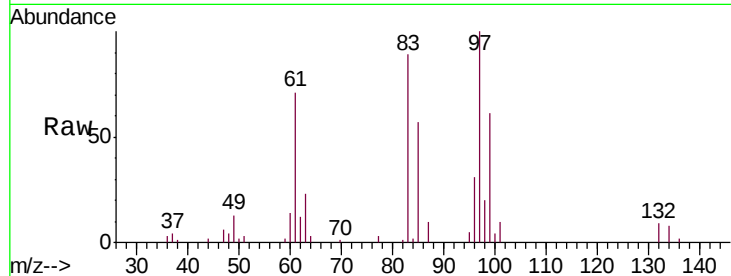




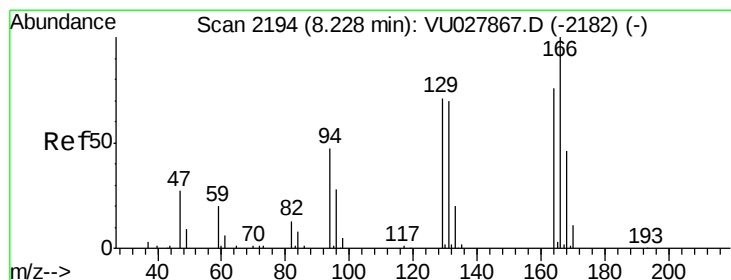
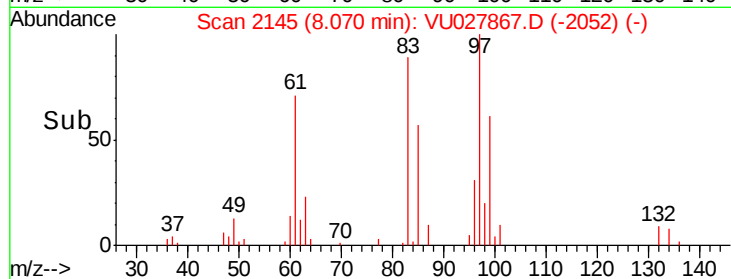
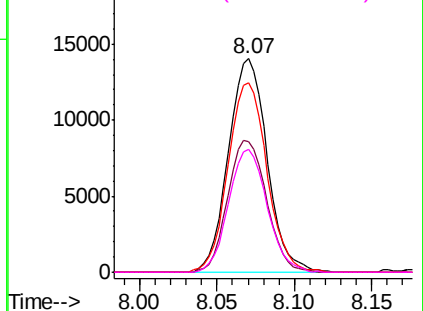
#45
 1,1,2-Trichloroethane
 Concen: 5.082 ug/L
 RT: 8.07 min Scan# 2145
 Delta R.T. 0.00 min
 Lab File: VU027867.D
 Acq: 30 Oct 2018 11:28

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00545

Tgt Ion:	97	Resp:	24417
Ion	Ratio	Lower	Upper
97	100		
99	61.3	42.9	79.7
83	88.9	62.2	115.6
85	57.4	40.2	74.6

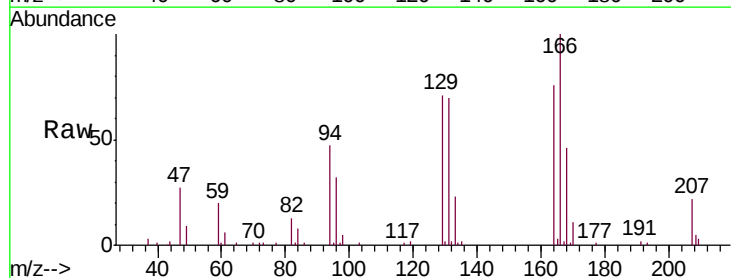


Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 82.95 (82.65 to 83.65): VU0
 Ion 85.00 (84.70 to 85.70): VU0

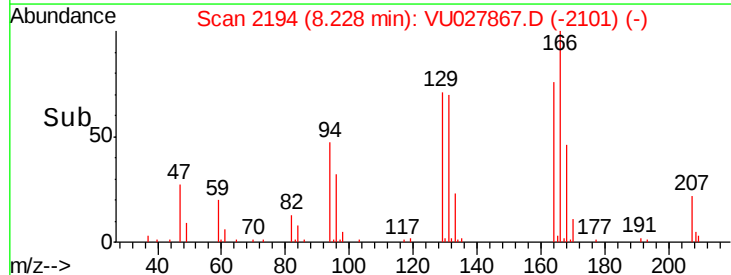
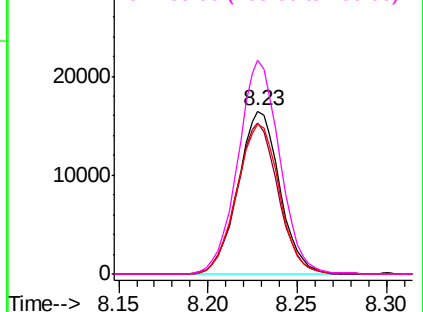


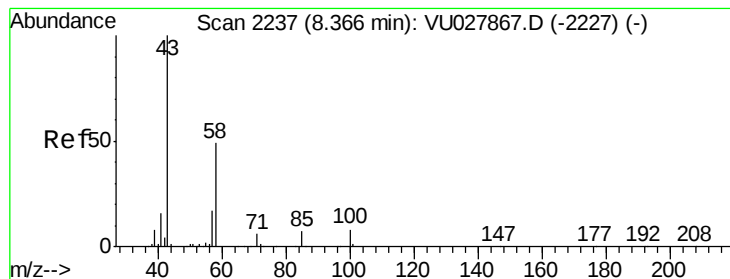
#47
 Tetrachloroethene
 Concen: 4.889 ug/L
 RT: 8.23 min Scan# 2194
 Delta R.T. 0.00 min
 Lab File: VU027867.D
 Acq: 30 Oct 2018 11:28

Tgt Ion:	164	Resp:	26804
Ion	Ratio	Lower	Upper
164	100		
129	92.7	64.9	120.5
131	91.9	64.3	119.5
166	131.1	91.8	170.4



Abundance Ion 163.90 (163.60 to 164.60): V
 Ion 128.95 (128.65 to 129.65): V
 Ion 130.95 (130.65 to 131.65): V
 Ion 165.90 (165.60 to 166.60): V





#48

2-Hexanone

Concen: 51.096 ug/L

RT: 8.37 min Scan# 2237

Delta R.T. 0.00 min

Lab File: VU027867.D

Acq: 30 Oct 2018 11:28

Instrument :

MSVOA_U

ClientSampleId :

VSTD00545

Tgt Ion: 43 Resp: 203273

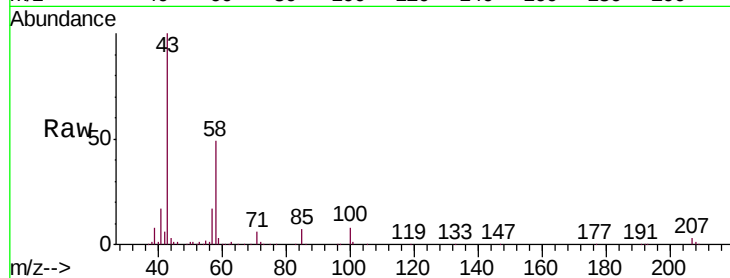
Ion Ratio Lower Upper

43 100

58 48.6 38.9 58.3

57 16.6 13.3 19.9

100 8.3 6.6 10.0

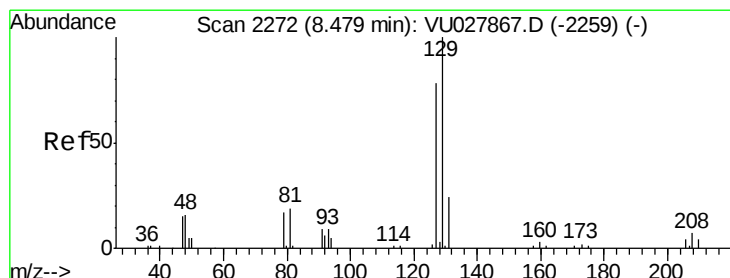
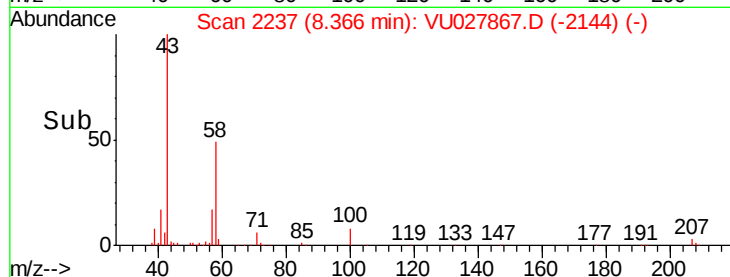
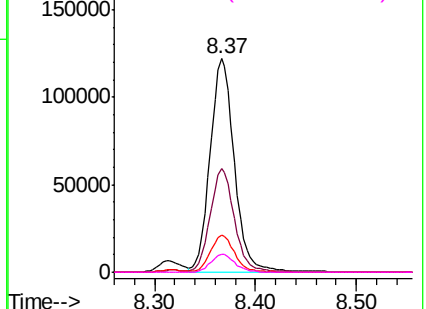


Abundance Ion 43.05 (42.75 to 43.75): VU0

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: 4.908 ug/L

RT: 8.48 min Scan# 2272

Delta R.T. 0.00 min

Lab File: VU027867.D

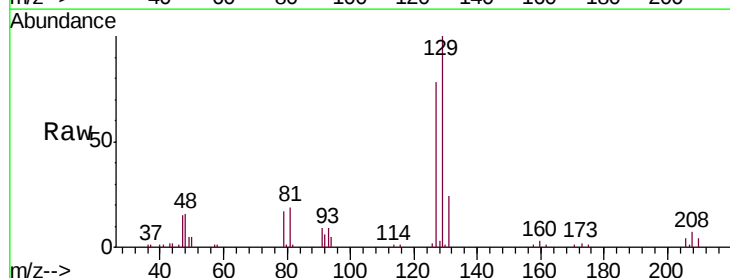
Acq: 30 Oct 2018 11:28

Tgt Ion: 129 Resp: 28480

Ion Ratio Lower Upper

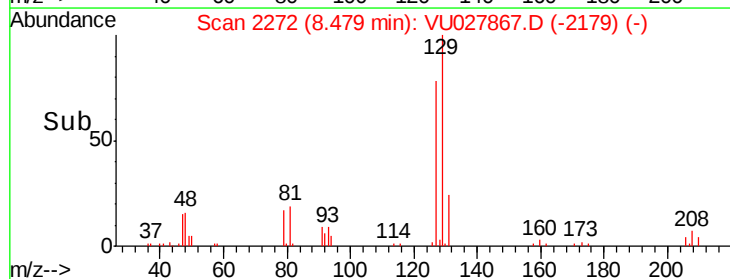
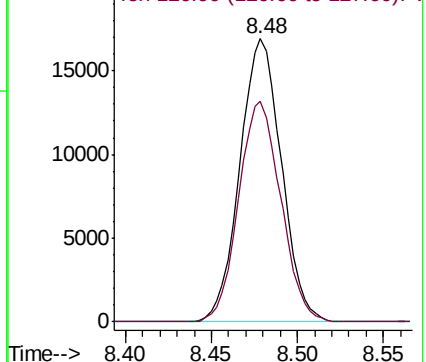
129 100

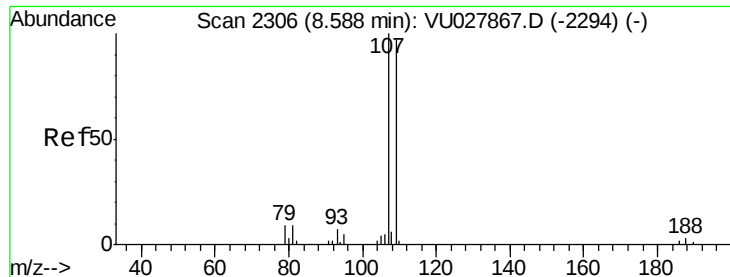
127 77.8 54.5 101.1



Abundance Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V





#50

1,2-Dibromoethane

Concen: 4.984 ug/L

RT: 8.59 min Scan# 2306

Delta R.T. 0.00 min

Lab File: VU027867.D

Acq: 30 Oct 2018 11:28

Instrument :

MSVOA_U

ClientSampleId :

VSTD00545

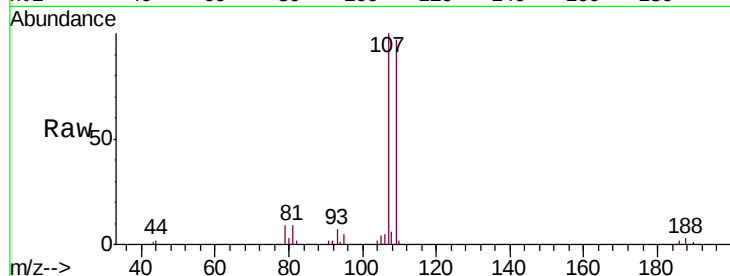
Tgt Ion:107 Resp: 22912

Ion Ratio Lower Upper

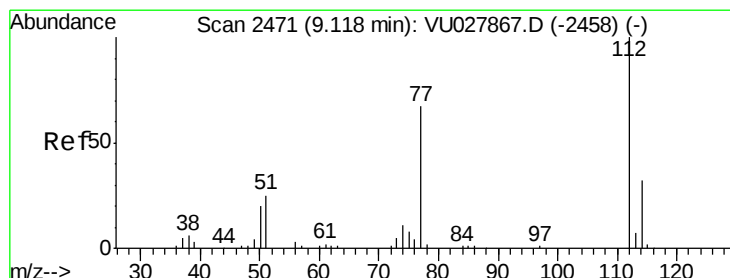
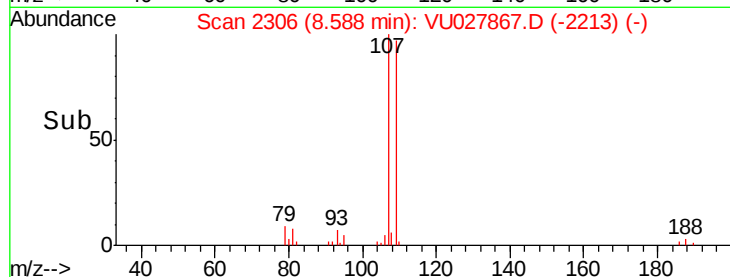
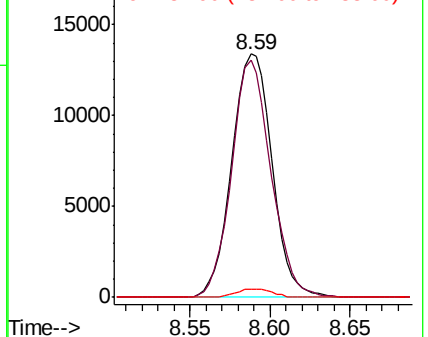
107 100

109 97.2 68.0 126.4

188 3.4 2.7 4.1



Abundance Ion 106.95 (106.65 to 107.65): V
Ion 109.00 (108.70 to 109.70): V
Ion 187.90 (187.60 to 188.60): V



#51

Chlorobenzene

Concen: 4.888 ug/L

RT: 9.12 min Scan# 2471

Delta R.T. 0.00 min

Lab File: VU027867.D

Acq: 30 Oct 2018 11:28

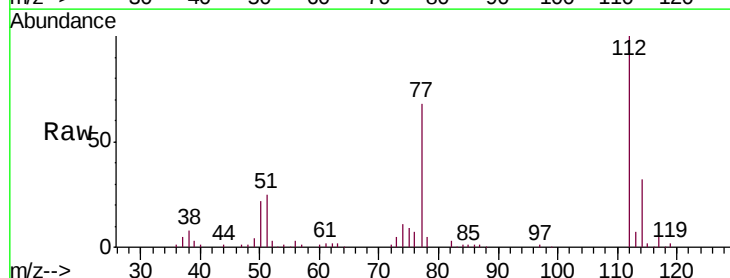
Tgt Ion:112 Resp: 86993

Ion Ratio Lower Upper

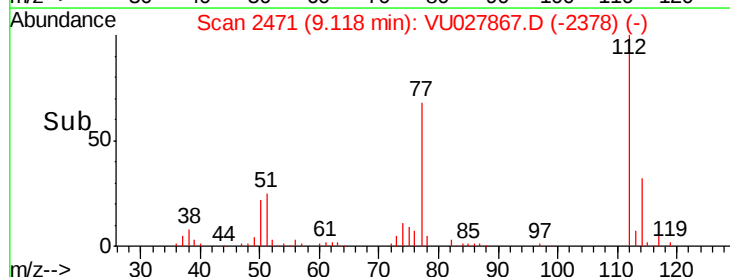
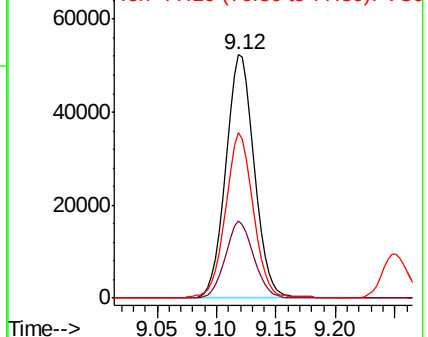
112 100

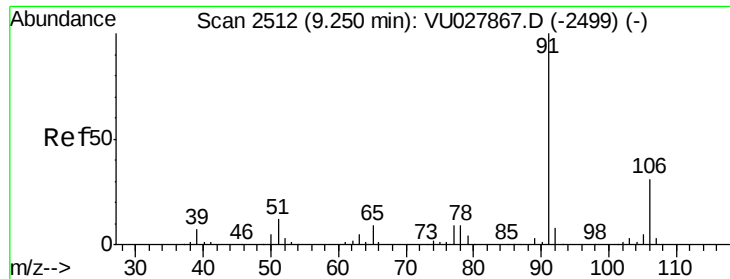
114 31.5 22.0 41.0

77 67.9 54.3 81.5



Abundance Ion 112.10 (111.80 to 112.80): V
Ion 114.05 (113.75 to 114.75): V
Ion 77.10 (76.80 to 77.80): V

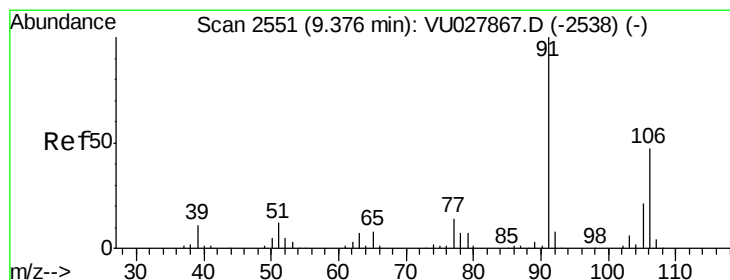
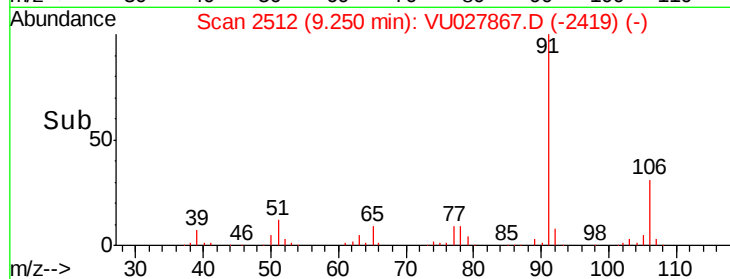
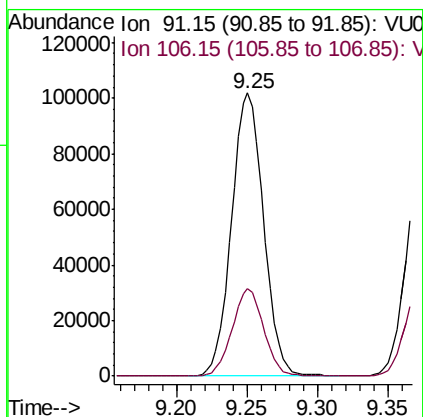
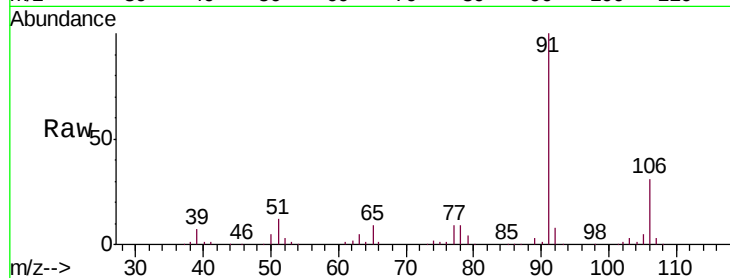




#52
Ethylbenzene
Concen: 4.954 ug/L
RT: 9.25 min Scan# 2512
Delta R.T. 0.00 min
Lab File: VU027867.D
Acq: 30 Oct 2018 11:28

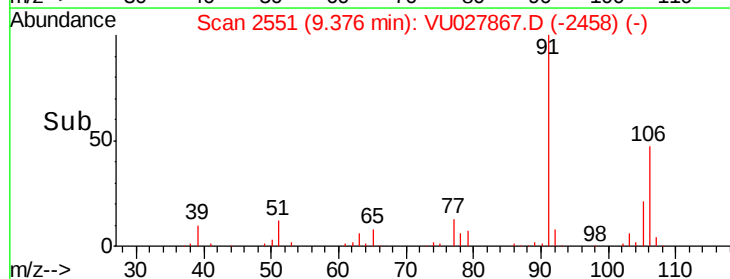
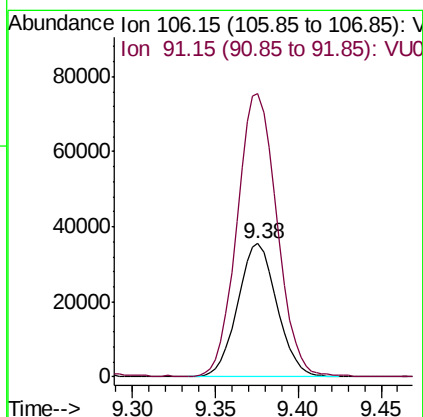
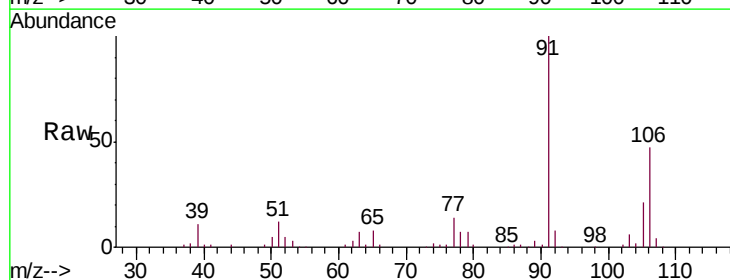
Instrument :
MSVOA_U
ClientSampleId :
VSTD00545

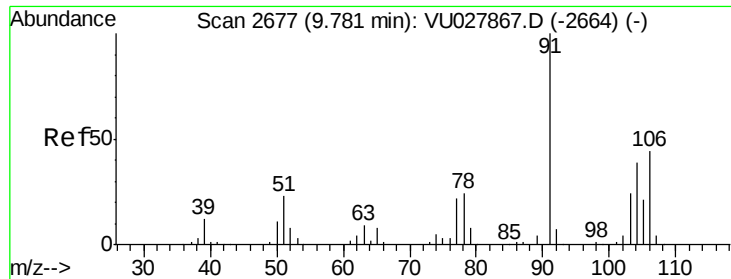
Tgt Ion: 91 Resp: 162027
Ion Ratio Lower Upper
91 100
106 30.7 21.5 39.9



#53
m,p-xylene
Concen: 4.957 ug/L
RT: 9.38 min Scan# 2551
Delta R.T. 0.00 min
Lab File: VU027867.D
Acq: 30 Oct 2018 11:28

Tgt Ion: 106 Resp: 58785
Ion Ratio Lower Upper
106 100
91 212.4 148.7 276.1





#54

o-xylene

Concen: 4.911 ug/L

RT: 9.78 min Scan# 2677

Delta R.T. 0.00 min

Lab File: VU027867.D

Acq: 30 Oct 2018 11:28

Instrument :

MSVOA_U

ClientSampleId :

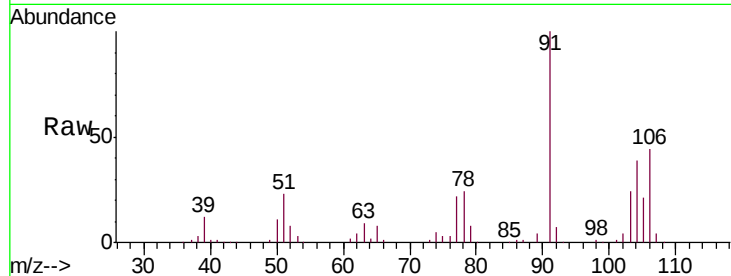
VSTD00545

Tgt Ion:106 Resp: 57214

Ion Ratio Lower Upper

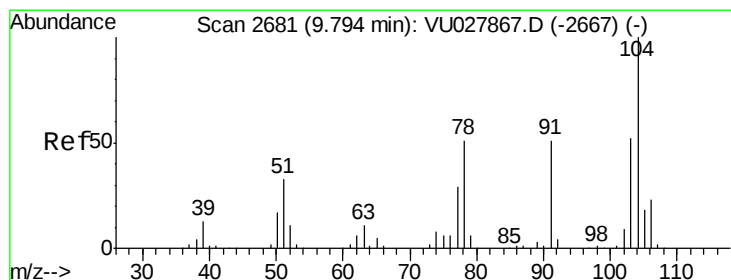
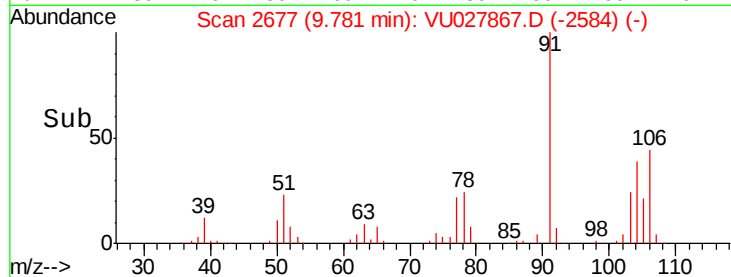
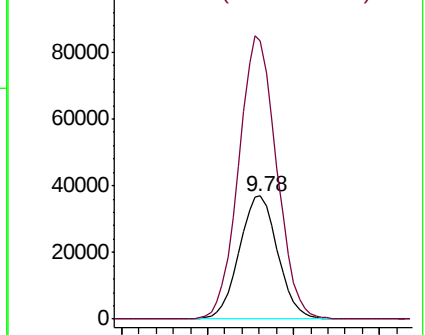
106 100

91 226.1 158.3 293.9



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0



#55

Styrene

Concen: 4.971 ug/L

RT: 9.79 min Scan# 2681

Delta R.T. 0.00 min

Lab File: VU027867.D

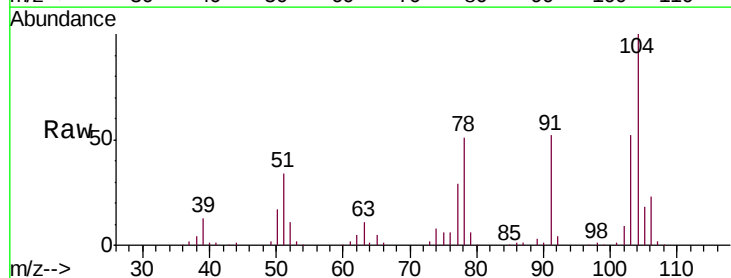
Acq: 30 Oct 2018 11:28

Tgt Ion:104 Resp: 97059

Ion Ratio Lower Upper

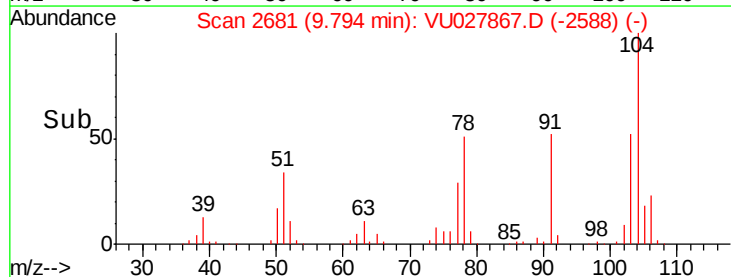
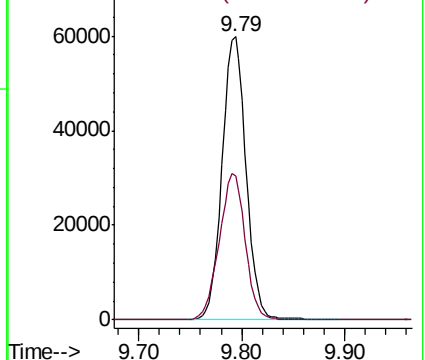
104 100

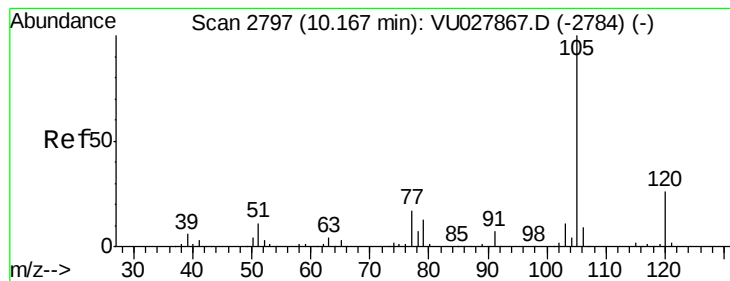
78 50.8 35.6 66.0



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VU0





#56

Isopropylbenzene

Concen: 5.009 ug/L

RT: 10.17 min Scan# 2797

Delta R.T. 0.00 min

Lab File: VU027867.D

Acq: 30 Oct 2018 11:28

Instrument :

MSVOA_U

ClientSampleId :

VSTD00545

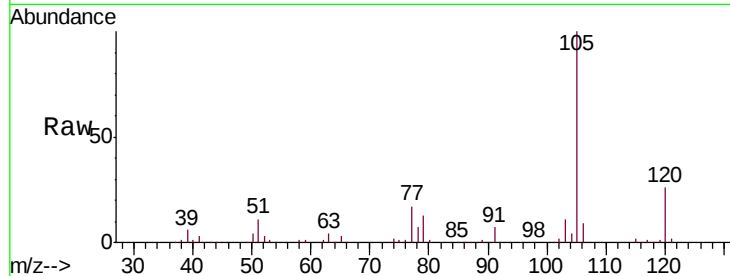
Tgt Ion: 105 Resp: 158955

Ion Ratio Lower Upper

105 100

120 25.2 20.2 30.2

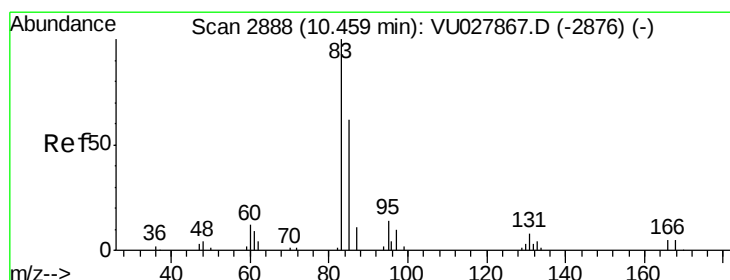
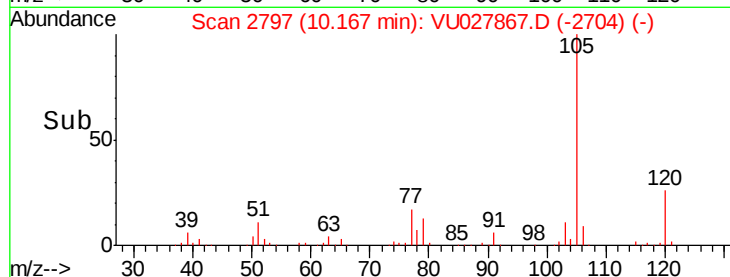
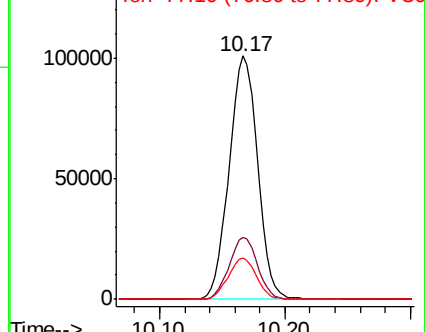
77 16.8 13.4 20.2



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: 5.015 ug/L

RT: 10.46 min Scan# 2888

Delta R.T. 0.00 min

Lab File: VU027867.D

Acq: 30 Oct 2018 11:28

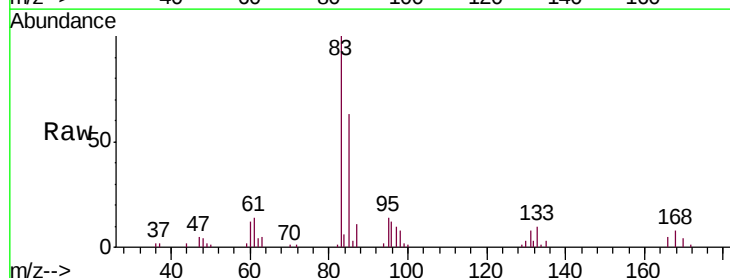
Tgt Ion: 83 Resp: 31421

Ion Ratio Lower Upper

83 100

85 63.4 44.4 82.4

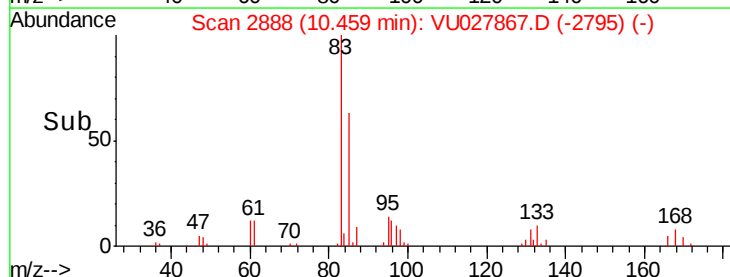
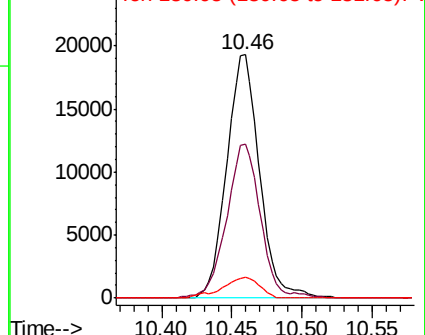
131 8.5 6.8 10.2

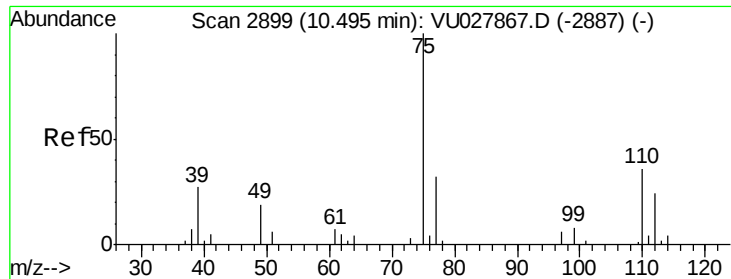


Abundance Ion 82.95 (82.65 to 83.65): V

Ion 85.00 (84.70 to 85.70): V

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 4.910 ug/L

RT: 10.49 min Scan# 2899

Delta R.T. 0.00 min

Lab File: VU027867.D

Acq: 30 Oct 2018 11:28

Instrument :

MSVOA_U

ClientSampleId :

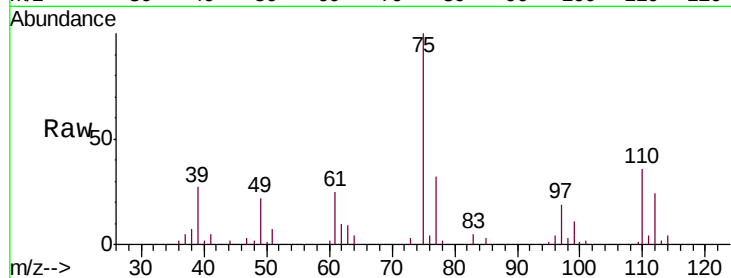
VSTD00545

Tgt Ion: 75 Resp: 23243

Ion Ratio Lower Upper

75 100

77 32.2 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) (-)

10.49

15000

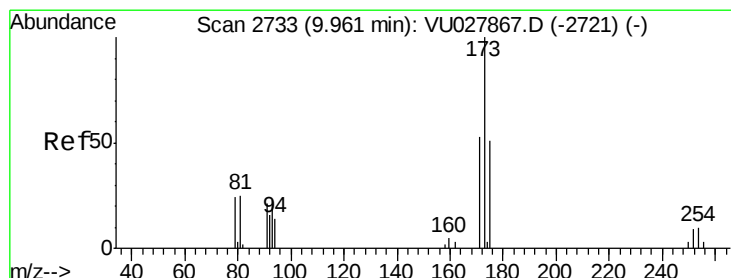
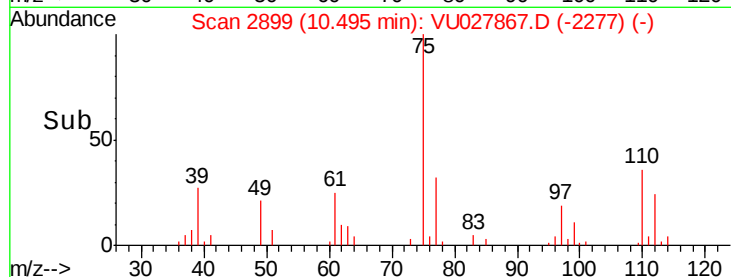
10000

5000

0

10.45 10.50 10.55

Time-->



#61

Bromoform

Concen: 4.791 ug/L

RT: 9.96 min Scan# 2733

Delta R.T. 0.00 min

Lab File: VU027867.D

Acq: 30 Oct 2018 11:28

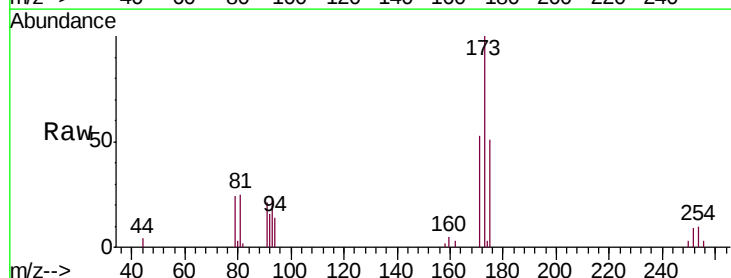
Tgt Ion: 173 Resp: 15550

Ion Ratio Lower Upper

173 100

175 47.9 38.3 57.5

254 9.7 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) (-)

9.96

12000

10000

8000

6000

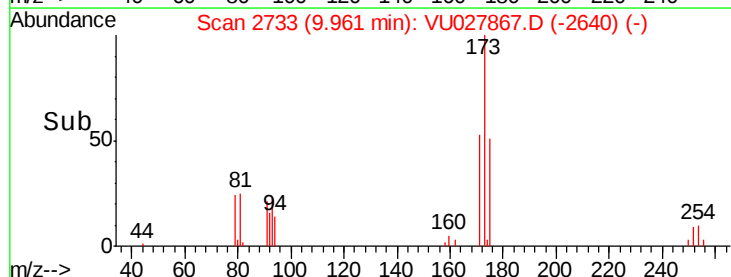
4000

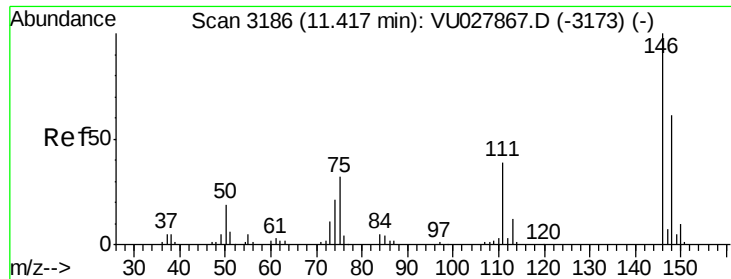
2000

0

9.90 9.95 10.00

Time-->

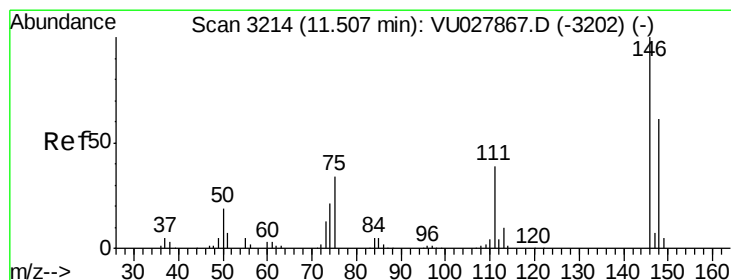
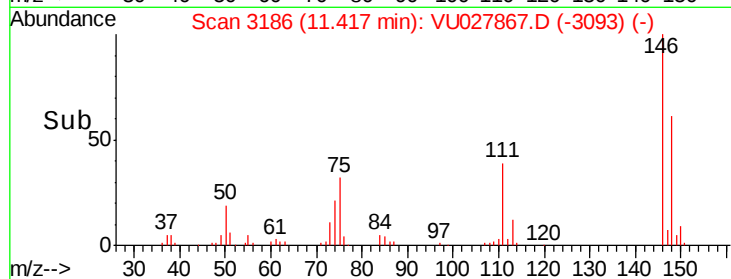
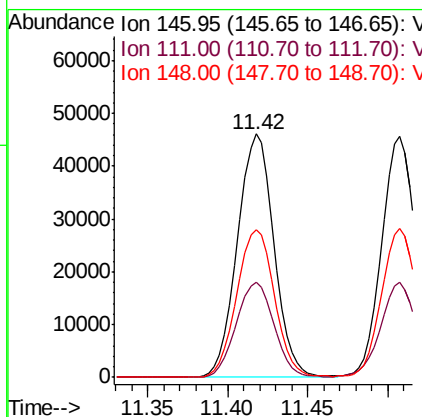
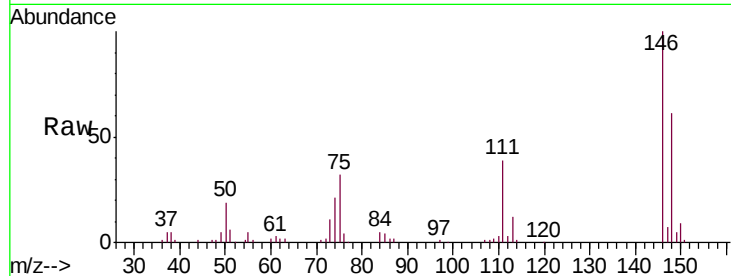




#62
 1,3-Dichlorobenzene
 Concen: 5.070 ug/L
 RT: 11.42 min Scan# 3186
 Delta R.T. 0.00 min
 Lab File: VU027867.D
 Acq: 30 Oct 2018 11:28

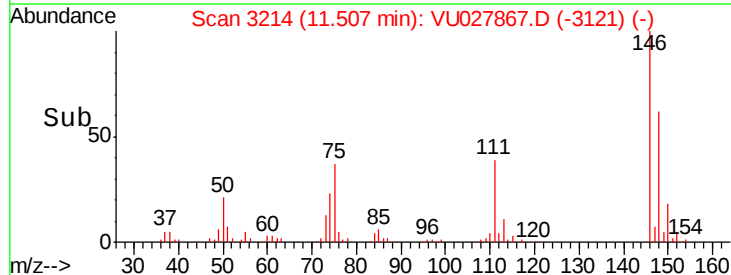
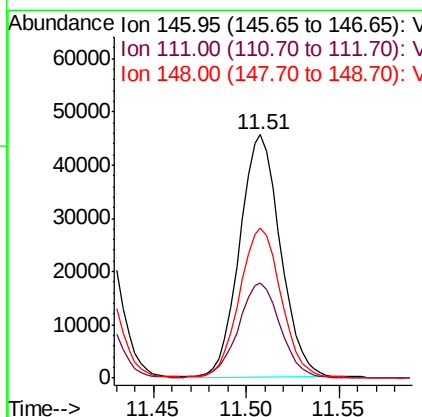
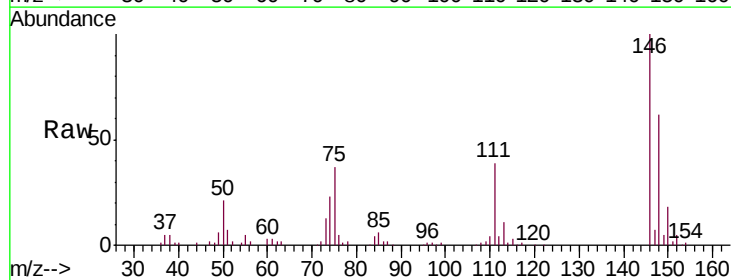
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00545

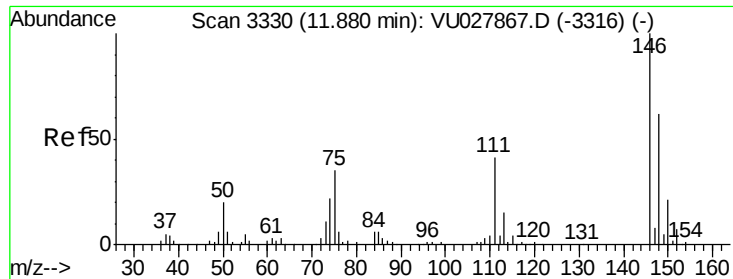
Tgt Ion:146 Resp: 71950
 Ion Ratio Lower Upper
 146 100
 111 39.2 27.4 51.0
 148 60.8 42.6 79.0



#63
 1,4-Dichlorobenzene
 Concen: 4.886 ug/L
 RT: 11.51 min Scan# 3214
 Delta R.T. 0.00 min
 Lab File: VU027867.D
 Acq: 30 Oct 2018 11:28

Tgt Ion:146 Resp: 69304
 Ion Ratio Lower Upper
 146 100
 111 39.2 27.4 51.0
 148 61.6 43.1 80.1

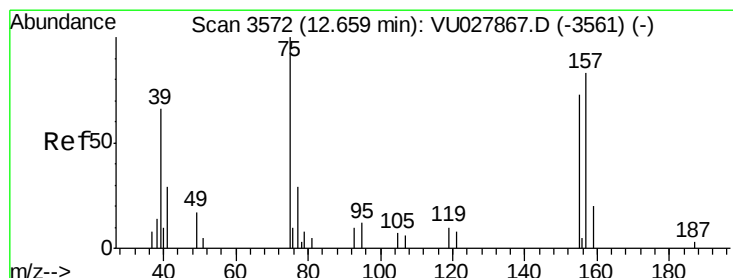
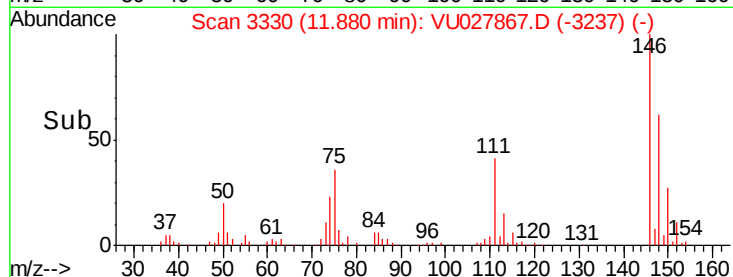
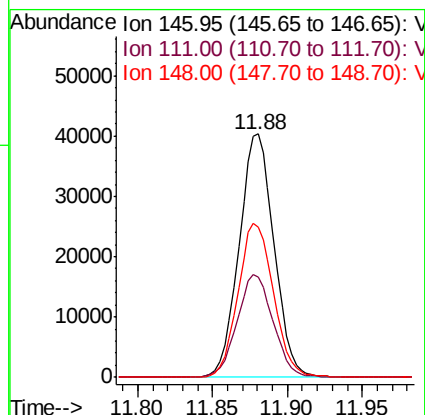
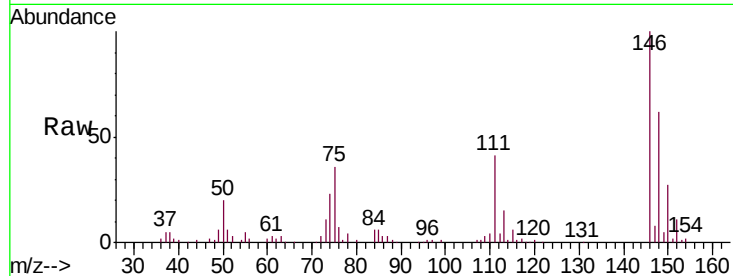




#65
 1,2-Dichlorobenzene
 Concen: 4.893 ug/L
 RT: 11.88 min Scan# 3330
 Delta R.T. 0.00 min
 Lab File: VU027867.D
 Acq: 30 Oct 2018 11:28

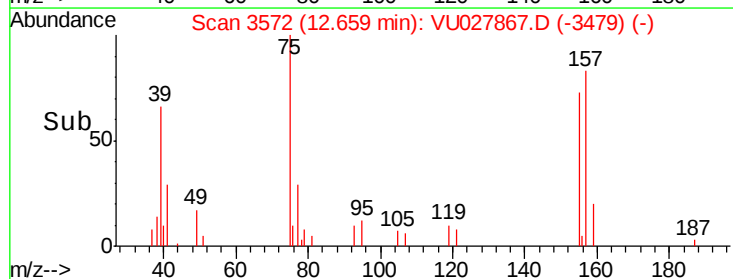
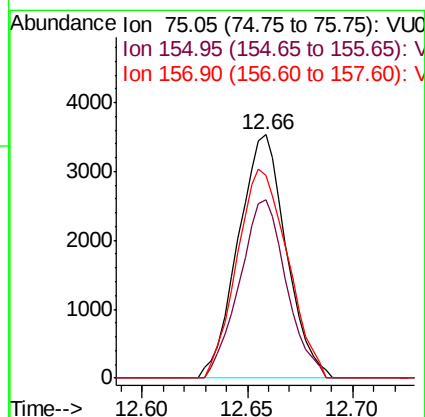
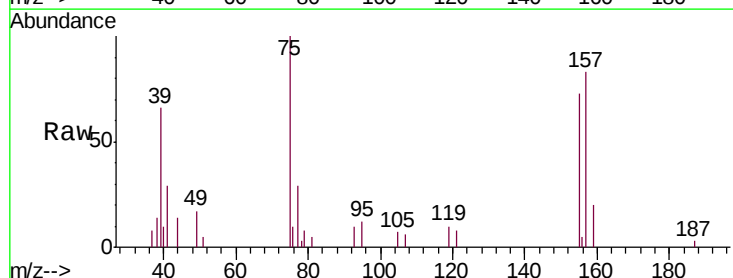
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00545

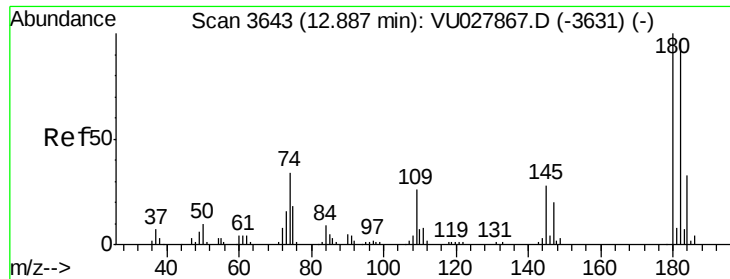
Tgt Ion: 146 Resp: 65564
 Ion Ratio Lower Upper
 146 100
 111 41.2 33.0 49.4
 148 61.5 49.2 73.8



#66
 1,2-Dibromo-3-chloropropane
 Concen: 5.319 ug/L
 RT: 12.66 min Scan# 3572
 Delta R.T. 0.00 min
 Lab File: VU027867.D
 Acq: 30 Oct 2018 11:28

Tgt Ion: 75 Resp: 5585
 Ion Ratio Lower Upper
 75 100
 155 73.2 58.6 87.8
 157 83.4 66.7 100.1

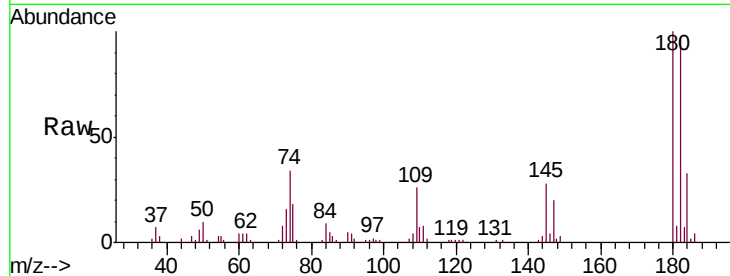




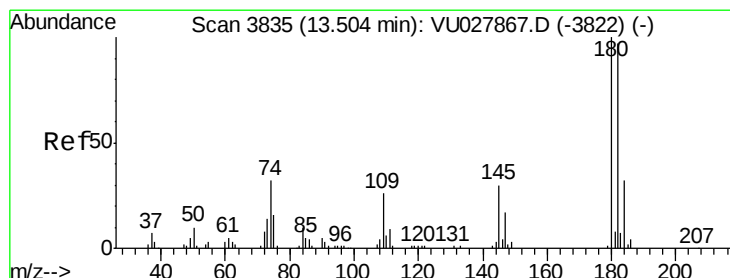
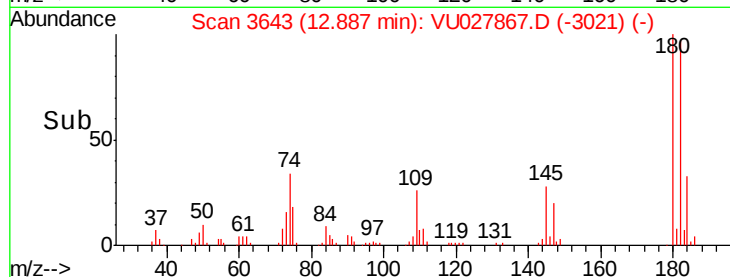
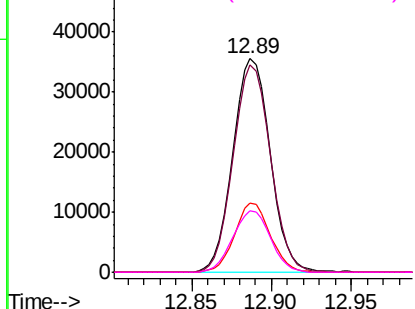
#67
 1,3,5-Trichlorobenzene
 Concen: 4.954 ug/L
 RT: 12.89 min Scan# 3643
 Delta R.T. 0.00 min
 Lab File: VU027867.D
 Acq: 30 Oct 2018 11:28

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00545

Tgt Ion:180 Resp: 56573
 Ion Ratio Lower Upper
 180 100
 182 96.6 77.3 115.9
 184 30.8 24.6 37.0
 145 28.8 23.0 34.6

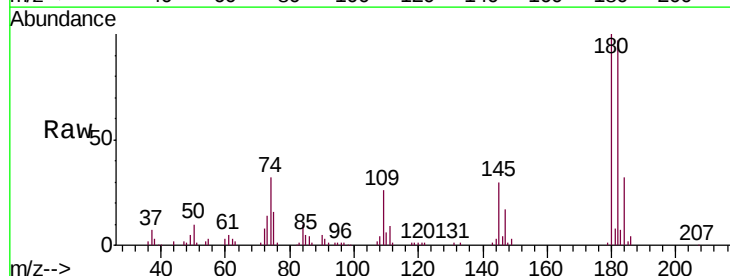


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

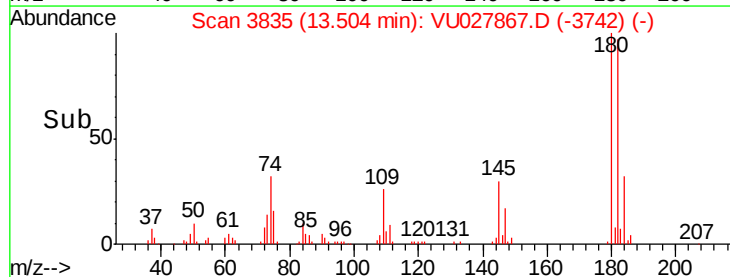
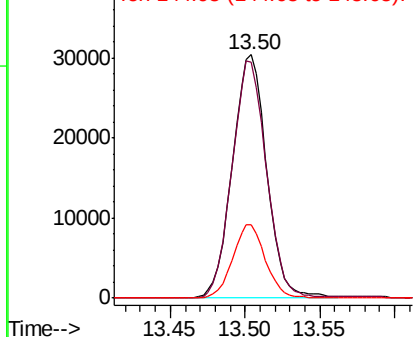


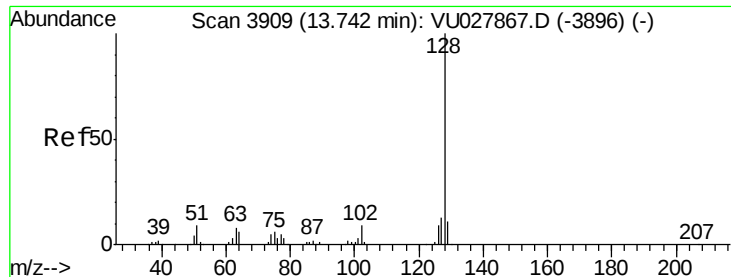
#68
 1,2,4-trichlorobenzene
 Concen: 5.013 ug/L
 RT: 13.50 min Scan# 3835
 Delta R.T. 0.00 min
 Lab File: VU027867.D
 Acq: 30 Oct 2018 11:28

Tgt Ion:180 Resp: 48684
 Ion Ratio Lower Upper
 180 100
 182 97.2 77.8 116.6
 145 28.6 22.9 34.3



Abundance Ion 179.90 (179.60 to 180.60): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 144.95 (144.65 to 145.65): V





#69

Naphthalene

Concen: 5.104 ug/L

RT: 13.74 min Scan# 3909

Delta R.T. 0.00 min

Lab File: VU027867.D

Acq: 30 Oct 2018 11:28

Instrument :

MSVOA_U

ClientSampleId :

VSTD00545

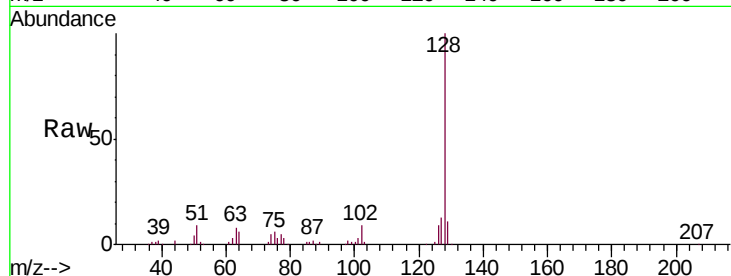
Tgt Ion:128 Resp: 77074

Ion Ratio Lower Upper

128 100

129 10.7 8.6 12.8

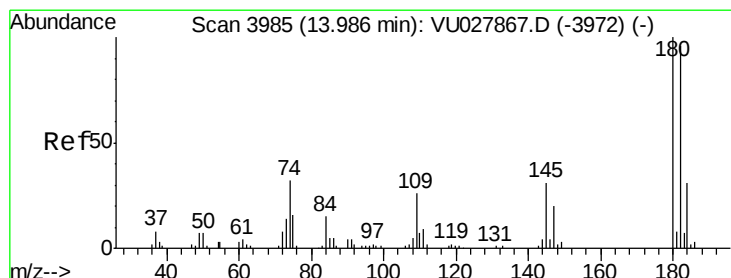
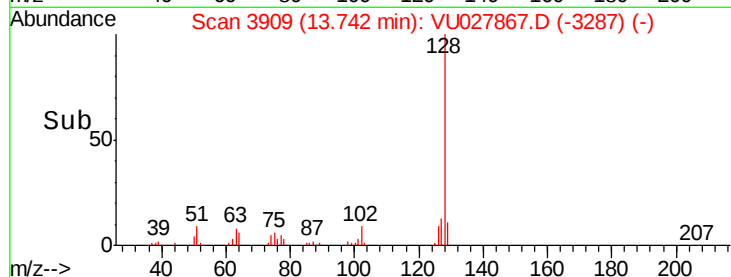
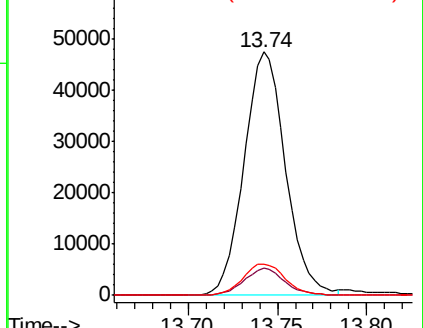
127 13.1 10.5 15.7



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: 4.875 ug/L

RT: 13.99 min Scan# 3985

Delta R.T. 0.00 min

Lab File: VU027867.D

Acq: 30 Oct 2018 11:28

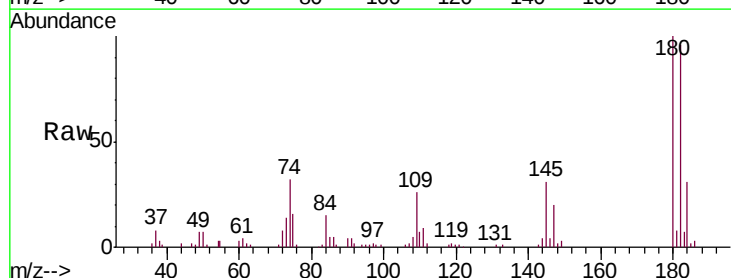
Tgt Ion:180 Resp: 43120

Ion Ratio Lower Upper

180 100

182 99.2 79.4 119.0

145 31.7 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

