

Data Path : W:\HPCHEM1\MSVOA_U\DATA\VU062417\
 Data File : VU017687.D
 Acq On : 24 Jun 2017 13:12
 Operator : MD/SY
 Sample : VSTD20018
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 VSTD20018

Quant Time: Jun 26 02:12:07 2017
 Quant Method : W:\HPCHEM1\MSVOA_U\METHOD\SOMULM062417WMA.M
 Quant Title : VOC Analysis
 QLast Update : Mon Jun 26 02:04:36 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.89	114	539149	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	516774	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.49	152	282001	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	725744	197.23	ug/L	0.00
7) Chloroethane-d5	1.66	69	491441	176.66	ug/L	-0.02
11) 1,1-Dichloroethene-d2	2.27	63	1202985	189.34	ug/L	0.00
21) 2-Butanone-d5	4.20	46	1133590	780.67	ug/L	0.00
24) Chloroform-d	4.65	84	1352399	206.79	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.32	65	858750	211.42	ug/L	0.00
32) Benzene-d6	5.35	84	2741852	202.06	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.34	67	885496	220.82	ug/L	0.00
41) Toluene-d8	7.57	98	2633423	198.73	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.85	79	433780	240.09	ug/L	0.00
47) 2-Hexanone-d5	8.32	63	940347	506.83	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.44	84	1290259	209.07	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.86	152	1138702	195.05	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	608269	165.305	ug/L 98
3) Chloromethane	1.34	50	732451	214.737	ug/L 100
5) Vinyl chloride	1.40	62	763914	206.441	ug/L 100
6) Bromomethane	1.61	94	256027	161.824	ug/L 100
8) Chloroethane	1.68	64	416233	183.661	ug/L 98
9) Trichlorofluoromethane	1.88	101	943615	167.501	ug/L 99
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	531006	167.691	ug/L 100
12) 1,1-Dichloroethene	2.28	96	547794	174.261	ug/L 94
13) Acetone	2.33	43	709943	291.931	ug/L 99
14) Carbon disulfide	2.47	76	1507850	220.390	ug/L 99
15) Methyl Acetate	2.62	43	780578	238.990	ug/L 100
16) Methylene chloride	2.70	84	647308	175.249	ug/L 100
17) trans-1,2-Dichloroethene	2.98	96	592099	179.724	ug/L 99
18) Methyl tert-butyl Ether	3.01	73	1872764	183.268	ug/L 100
19) 1,1-Dichloroethane	3.45	63	1200393	209.484	ug/L 100
20) cis-1,2-Dichloroethene	4.23	96	765097	199.791	ug/L 98
22) 2-Butanone	4.29	43	1215745	464.903	ug/L 98
23) Bromochloromethane	4.55	128	391564	193.534	ug/L 98
25) Chloroform	4.68	83	1251658	200.325	ug/L 98
27) 1,2-Dichloroethane	5.41	62	990052	211.708	ug/L 100
29) Cyclohexane	5.00	56	1077634	238.785	ug/L 100
30) 1,1,1-Trichloroethane	4.92	97	1032059	203.307	ug/L 99
31) Carbon tetrachloride	5.14	117	914144	213.478	ug/L 100
33) Benzene	5.39	78	2756318	202.808	ug/L 100
34) Trichloroethene	6.19	95	742345	195.623	ug/L 99
35) Methylcyclohexane	6.42	83	1140761	213.341	ug/L 99
37) 1,2-Dichloropropane	6.44	63	736988	216.843	ug/L 100
38) Bromodichloromethane	6.76	83	943232	219.967	ug/L 99
39) cis-1,3-Dichloropropene	7.27	75	1192570	232.513	ug/L 100
40) 4-Methyl-2-pentanone	7.47	43	2254674	526.686	ug/L 99

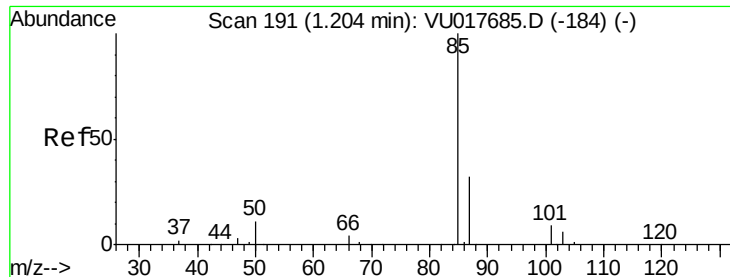
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 Quant Title : VOC Analysis
 QLast Update : Mon Jun 26 02:04:36 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.64	91	3051824	198.653	ug/L	99
44) trans-1,3-Dichloropropene	7.89	75	1090216	237.447	ug/L	99
45) 1,1,2-Trichloroethane	8.07	97	726471	194.752	ug/L	99
46) Tetrachloroethene	8.23	164	630643	183.686	ug/L	99
48) 2-Hexanone	8.37	43	1760215	491.896	ug/L	100
49) Dibromochloromethane	8.48	129	814587	217.042	ug/L	100
50) 1,2-Dibromoethane	8.59	107	784333	195.726	ug/L	98
51) Chlorobenzene	9.12	112	2029567	192.819	ug/L	99
52) Ethylbenzene	9.25	91	3474965	202.965	ug/L	99
53) m,p-Xylene	9.38	106	1321407	199.266	ug/L	99
54) o-xylene	9.78	106	1305074	199.461	ug/L	99
55) Styrene	9.80	104	2311328	201.993	ug/L	99
56) Isopropylbenzene	10.17	105	3423224	200.127	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.46	83	1221160	201.176	ug/L	99
59) 1,2,3-Trichloropropane	10.50	75	950543	204.091	ug/L	100
61) Bromoform	9.96	173	657612	240.682	ug/L	99
62) 1,3-Dichlorobenzene	11.42	146	1719116	194.566	ug/L	100
63) 1,4-Dichlorobenzene	11.51	146	1741009	190.777	ug/L	99
65) 1,2-Dichlorobenzene	11.88	146	1677829	187.751	ug/L	100
66) 1,2-Dibromo-3-chloropropan	12.65	75	280957	239.805	ug/L	99
67) 1,3,5-Trichlorobenzene	12.89	180	1378750	189.638	ug/L	100
68) 1,2,4-trichlorobenzene	13.50	180	1279163	191.515	ug/L	100
69) Naphthalene	13.74	128	3841930	195.638	ug/L	100
70) 1,2,3-Trichlorobenzene	13.99	180	1239321	185.954	ug/L	99

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



#2

Dichlorodifluoromethane

Concen: 165.305 ug/L

RT: 1.20 min Scan# 191

Delta R.T. -0.00 min

Lab File: VU017687.D

Acq: 24 Jun 2017 13:12

Instrument :

BNA_M

ClientSampleId :

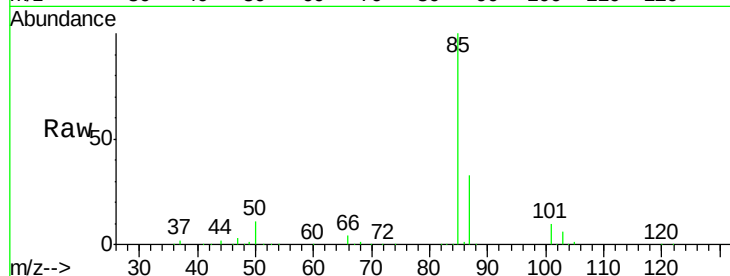
VSTD20018

Tgt Ion: 85 Resp: 608269

Ion Ratio Lower Upper

85 100

87 33.0 25.5 38.3



Abundance Ion 85.00 (84.70 to 85.70): VU017685.D (-184) (-)

Ion 87.00 (86.70 to 87.70): VU017685.D (-184) (-)

1.20

400000

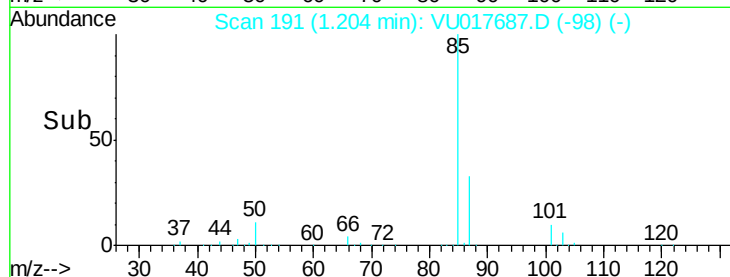
300000

200000

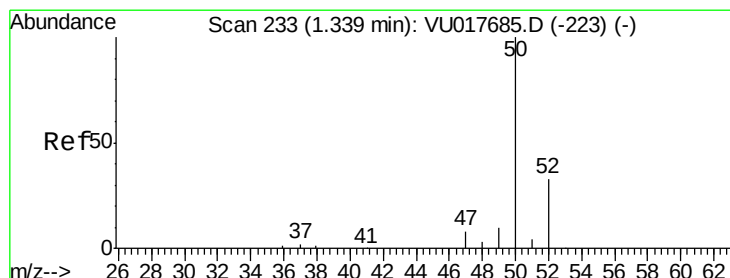
100000

0

Time-->



Time-->



#3

Chloromethane

Concen: 214.737 ug/L

RT: 1.34 min Scan# 233

Delta R.T. -0.00 min

Lab File: VU017687.D

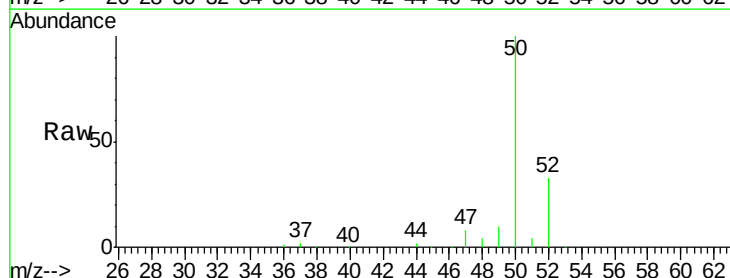
Acq: 24 Jun 2017 13:12

Tgt Ion: 50 Resp: 732451

Ion Ratio Lower Upper

50 100

52 32.6 22.9 42.5



Abundance Ion 50.00 (49.70 to 50.70): VU017685.D (-223) (-)

Ion 52.00 (51.70 to 52.70): VU017685.D (-223) (-)

1.34

400000

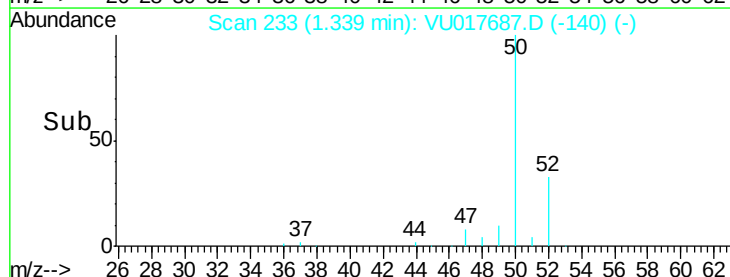
300000

200000

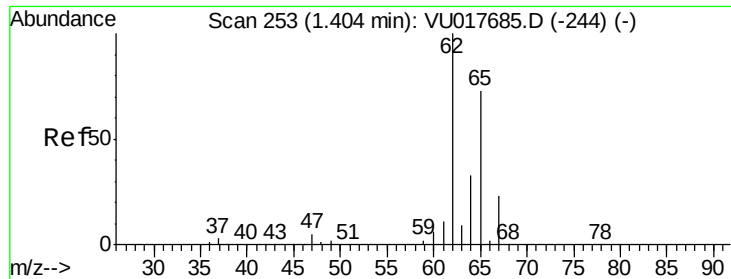
100000

0

Time-->



Time-->



#5

Vinyl chloride

Concen: 206.441 ug/L

RT: 1.40 min Scan# 253

Delta R.T. -0.00 min

Lab File: VU017687.D

Acq: 24 Jun 2017 13:12

Instrument :

BNA_M

ClientSampleId :

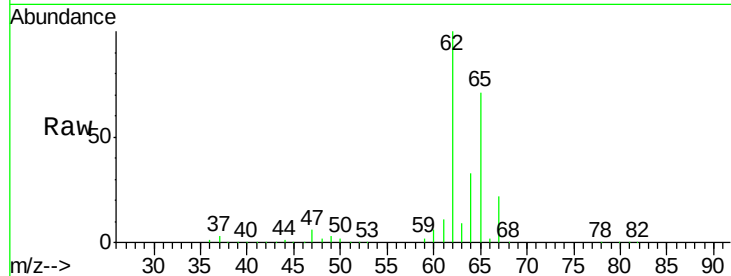
VSTD20018

Tgt Ion: 62 Resp: 763914

Ion Ratio Lower Upper

62 100

64 32.9 23.0 42.6



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0

1.40

600000

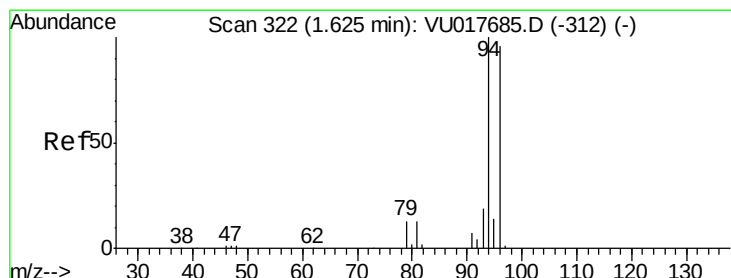
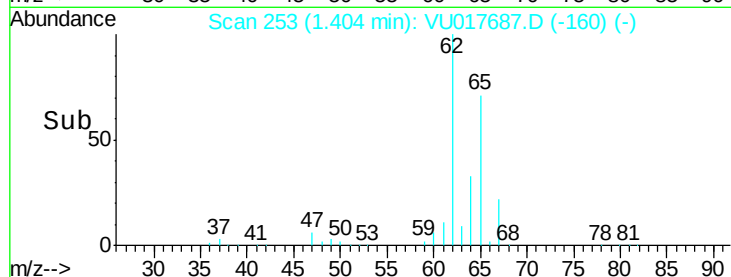
400000

200000

0

Time-->

1.35 1.40 1.45 1.50 1.55



#6

Bromomethane

Concen: 161.824 ug/L

RT: 1.61 min Scan# 316

Delta R.T. -0.02 min

Lab File: VU017687.D

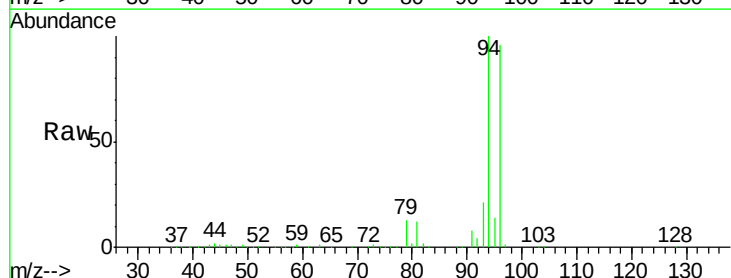
Acq: 24 Jun 2017 13:12

Tgt Ion: 94 Resp: 256027

Ion Ratio Lower Upper

94 100

96 96.0 66.8 124.2



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0

1.61

200000

150000

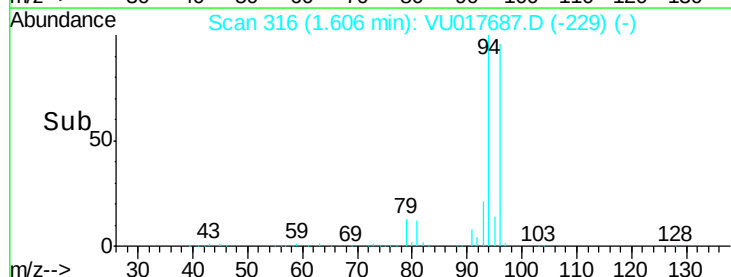
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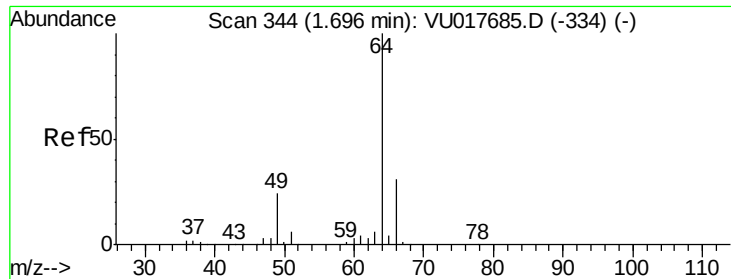
50000

0

Time-->

1.55 1.60 1.65

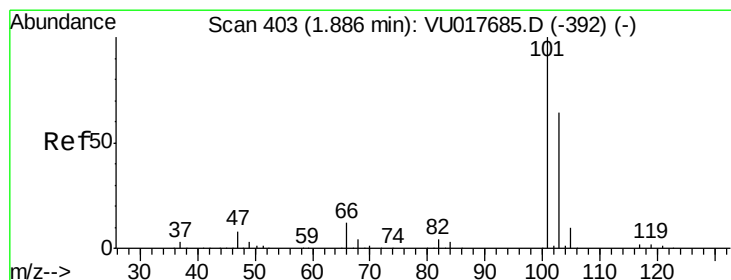
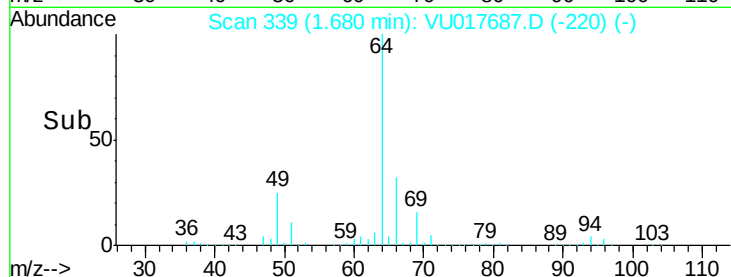
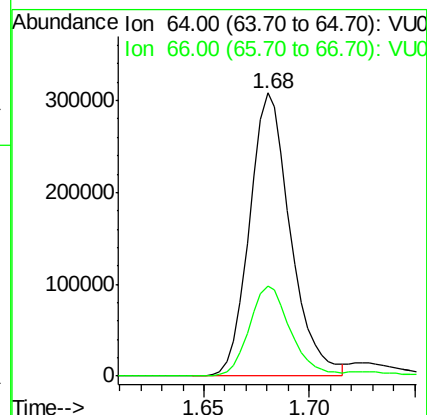
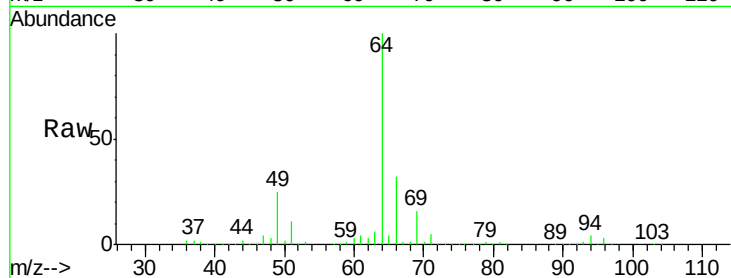




#8
Chloroethane
Concen: 183.661 ug/L
RT: 1.68 min Scan# 339
Delta R.T. -0.02 min
Lab File: VU017687.D
Acq: 24 Jun 2017 13:12

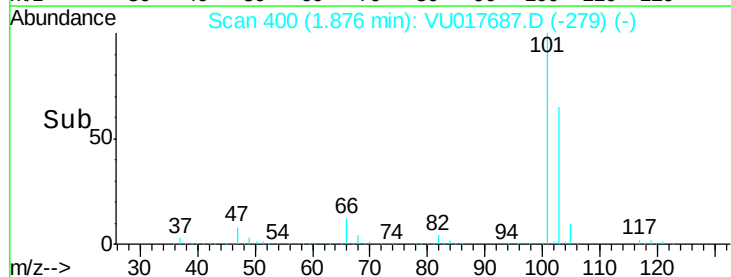
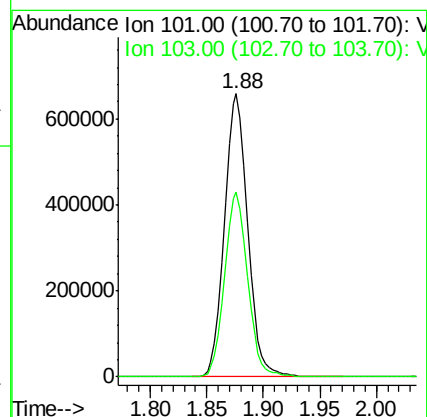
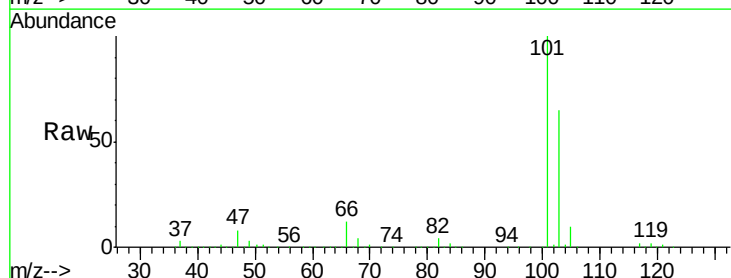
Instrument :
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VSTD20018

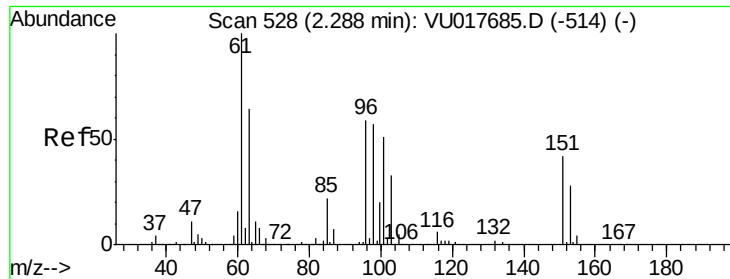
Tgt Ion: 64 Resp: 416233
Ion Ratio Lower Upper
64 100
66 32.0 21.7 40.3



#9
Trichlorofluoromethane
Concen: 167.501 ug/L
RT: 1.88 min Scan# 400
Delta R.T. -0.01 min
Lab File: VU017687.D
Acq: 24 Jun 2017 13:12

Tgt Ion: 101 Resp: 943615
Ion Ratio Lower Upper
101 100
103 64.9 51.3 76.9





#10

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

Concen: 167.691 ug/L

RT: 2.28 min Scan# 526

Delta R.T. -0.01 min

Lab File: VU017687.D

Acq: 24 Jun 2017 13:12

Instrument :

BNA_M

ClientSampleId :

VSTD20018

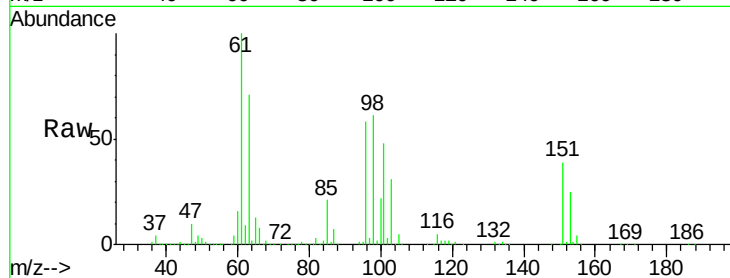
Tgt Ion:101 Resp: 531006

Ion Ratio Lower Upper

101 100

85 42.1 33.7 50.5

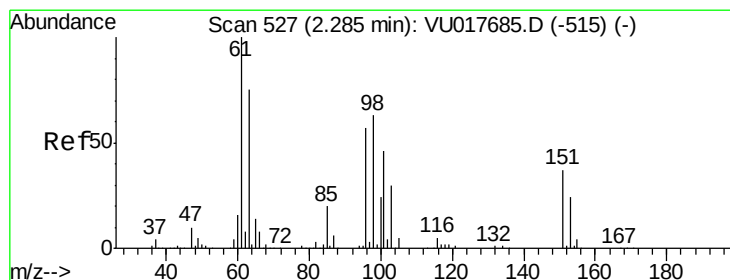
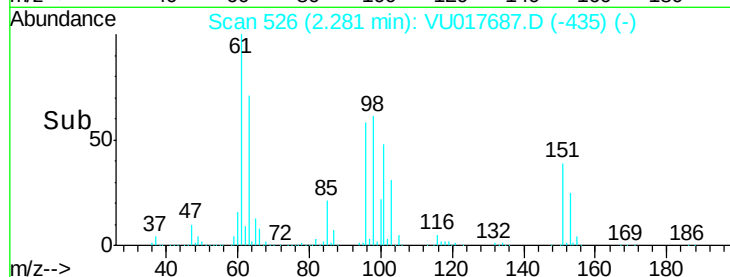
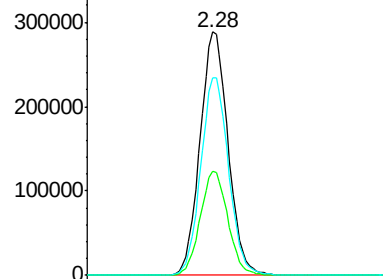
151 80.6 64.8 97.2



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: 174.261 ug/L

RT: 2.28 min Scan# 526

Delta R.T. -0.00 min

Lab File: VU017687.D

Acq: 24 Jun 2017 13:12

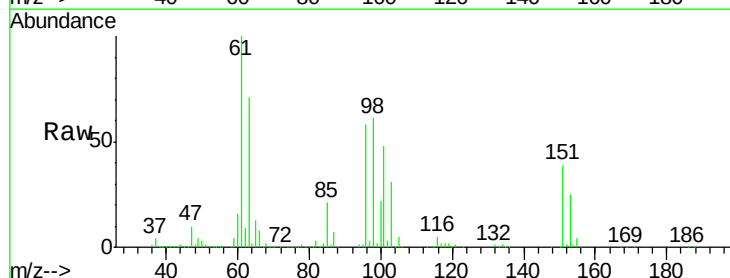
Tgt Ion: 96 Resp: 547794

Ion Ratio Lower Upper

96 100

61 171.2 122.5 227.5

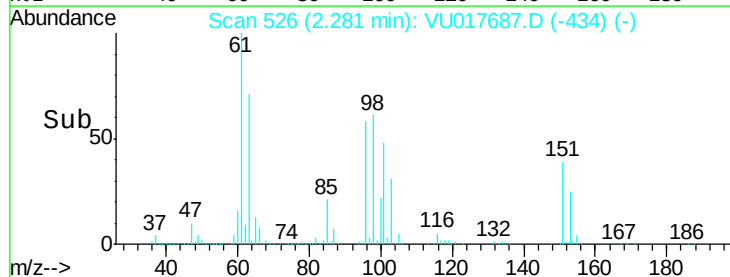
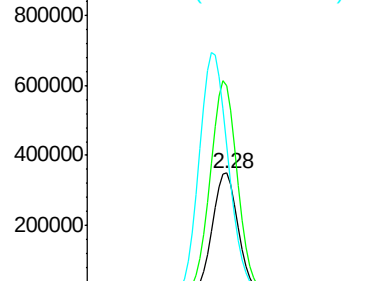
63 122.1 94.1 174.7

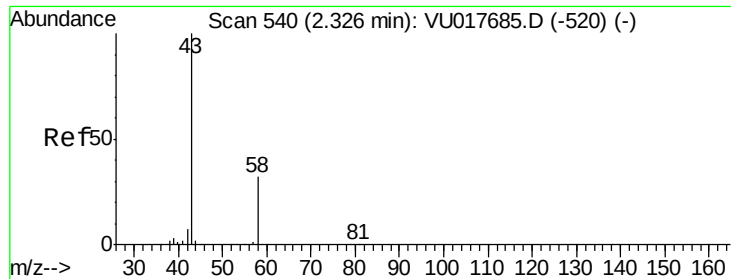


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 291.931 ug/L

RT: 2.33 min Scan# 540

Delta R.T. -0.00 min

Lab File: VU017687.D

Acq: 24 Jun 2017 13:12

Instrument :

BNA_M

ClientSampleId :

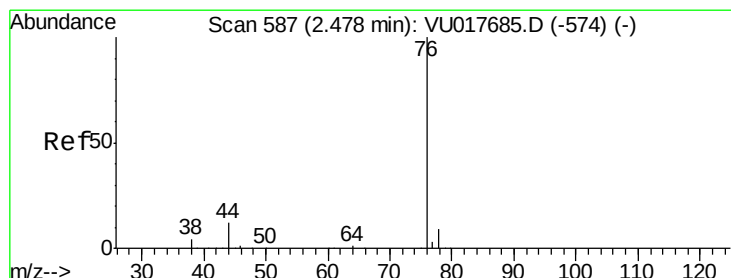
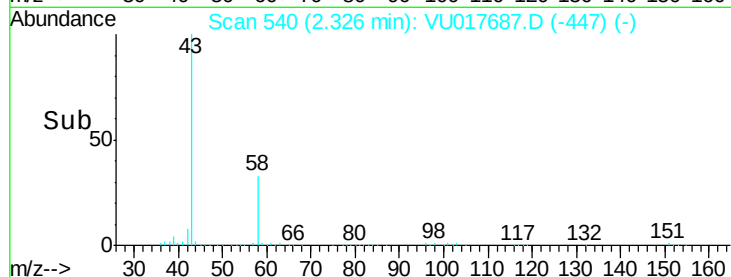
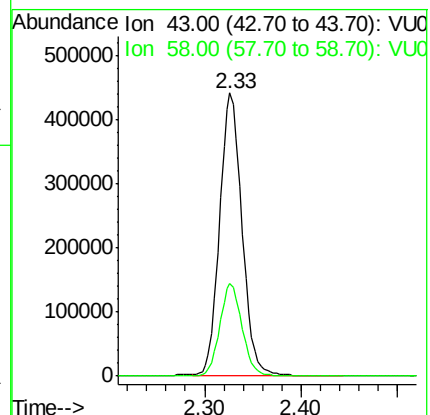
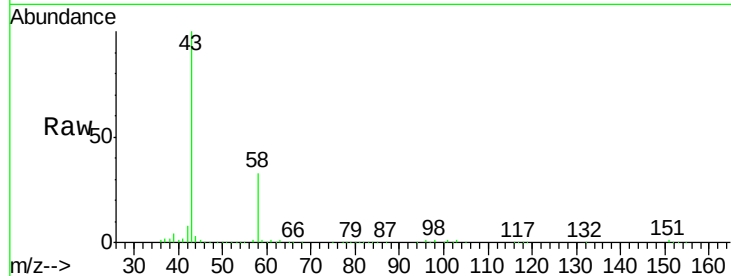
VSTD20018

Tgt Ion: 43 Resp: 709943

Ion Ratio Lower Upper

43 100

58 32.5 0.0 64.2



#14

Carbon disulfide

Concen: 220.390 ug/L

RT: 2.47 min Scan# 585

Delta R.T. -0.01 min

Lab File: VU017687.D

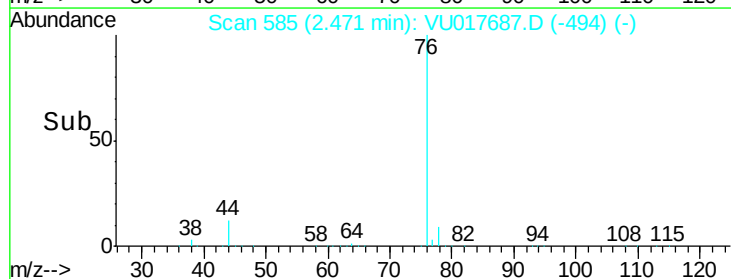
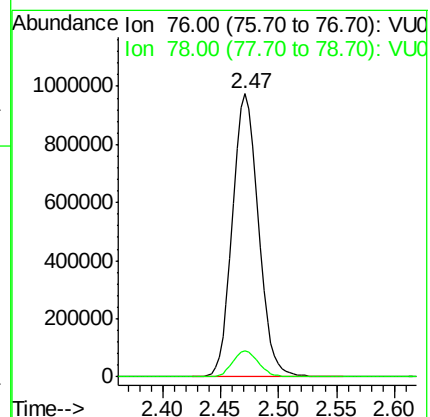
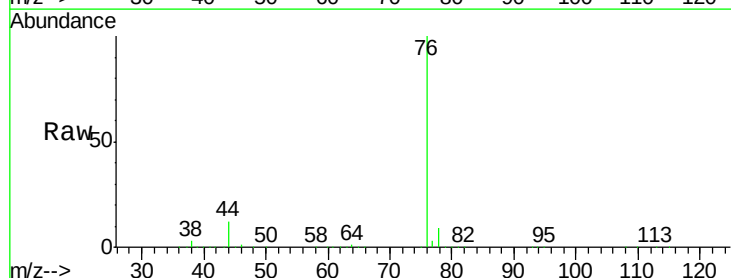
Acq: 24 Jun 2017 13:12

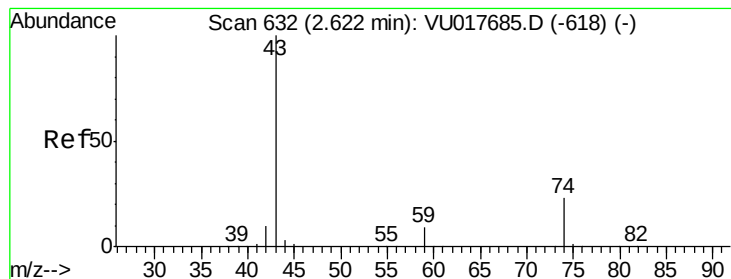
Tgt Ion: 76 Resp: 1507850

Ion Ratio Lower Upper

76 100

78 9.2 7.0 10.6





#15

Methyl Acetate

Concen: 238.990 ug/L

RT: 2.62 min Scan# 632

Delta R.T. -0.00 min

Lab File: VU017687.D

Acq: 24 Jun 2017 13:12

Instrument :

BNA_M

ClientSampled :

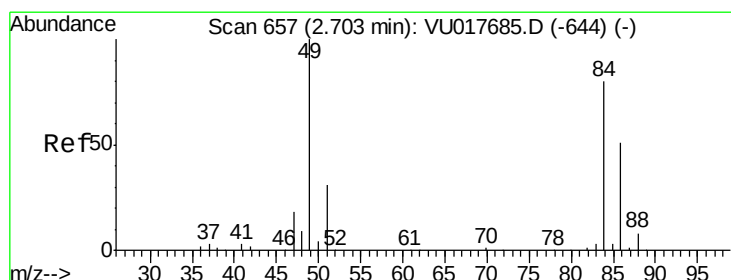
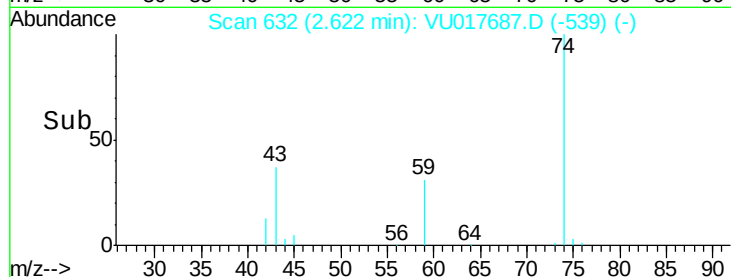
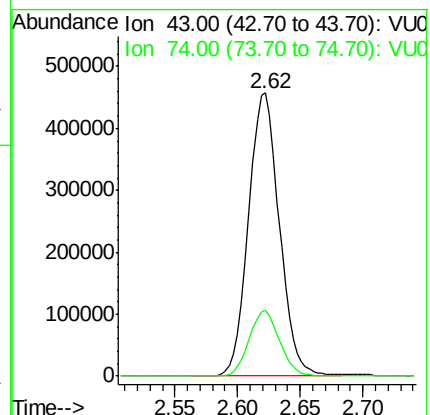
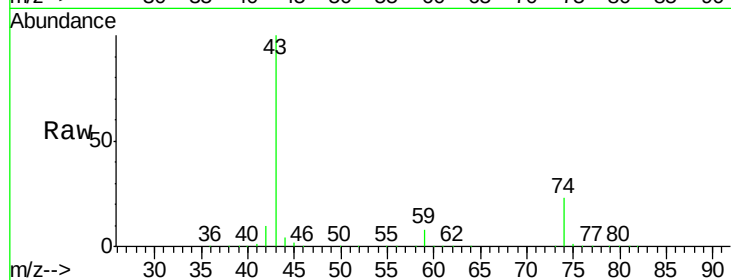
VSTD20018

Tgt Ion: 43 Resp: 780578

Ion Ratio Lower Upper

43 100

74 23.0 18.2 27.4



#16

Methylene chloride

Concen: 175.249 ug/L

RT: 2.70 min Scan# 656

Delta R.T. -0.00 min

Lab File: VU017687.D

Acq: 24 Jun 2017 13:12

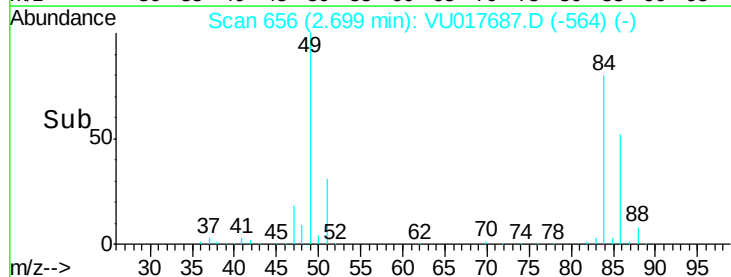
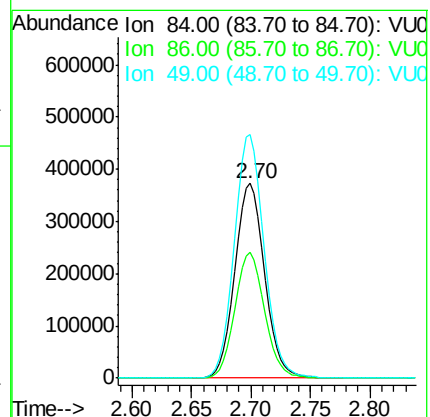
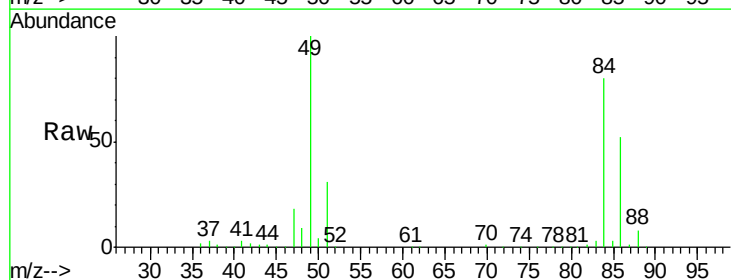
Tgt Ion: 84 Resp: 647308

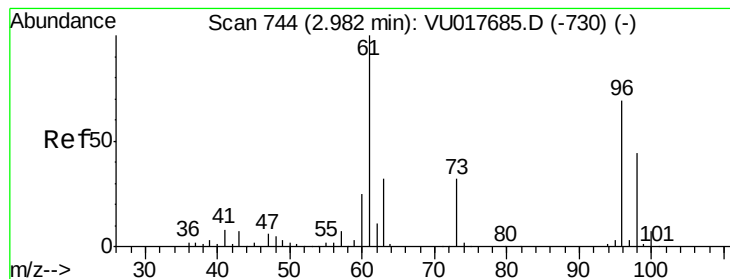
Ion Ratio Lower Upper

84 100

86 64.4 45.0 83.6

49 125.1 87.6 162.6





#17

trans-1,2-Dichloroethene

Concen: 179.724 ug/L

RT: 2.98 min Scan# 743

Delta R.T. -0.00 min

Lab File: VU017687.D

Acq: 24 Jun 2017 13:12

Instrument :

BNA_M

ClientSampleId :

VSTD20018

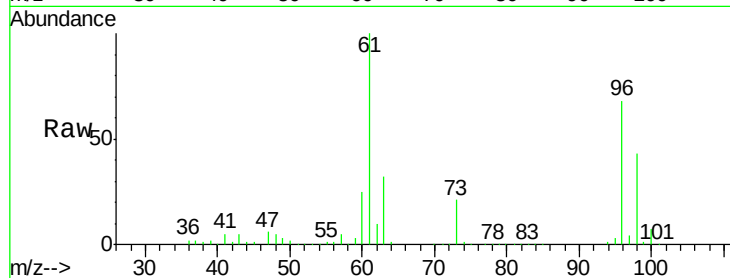
Tgt Ion: 96 Resp: 592099

Ion Ratio Lower Upper

96 100

61 147.9 102.0 189.4

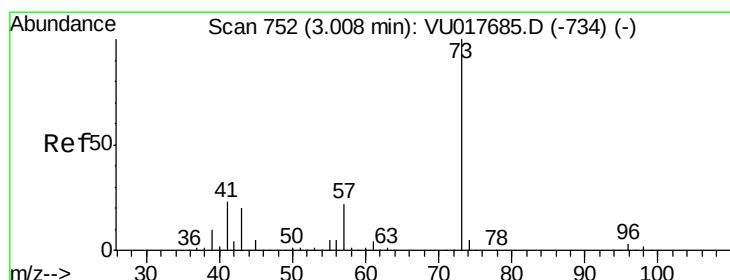
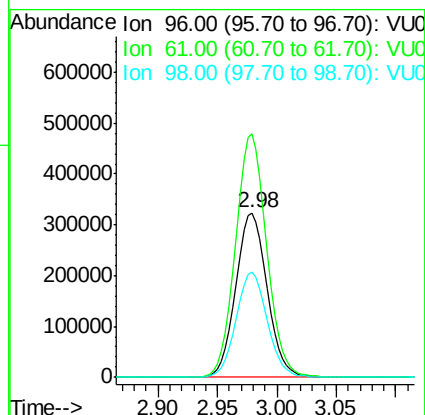
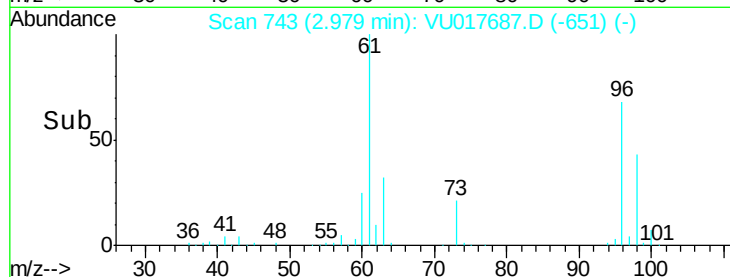
98 63.9 45.0 83.6



Abundance Ion 96.00 (95.70 to 96.70): VU017685.D (-730) (-)

Ion 61.00 (60.70 to 61.70): VU017685.D (-730) (-)

Ion 98.00 (97.70 to 98.70): VU017685.D (-730) (-)



#18

Methyl tert-butyl Ether

Concen: 183.268 ug/L

RT: 3.01 min Scan# 752

Delta R.T. -0.00 min

Lab File: VU017687.D

Acq: 24 Jun 2017 13:12

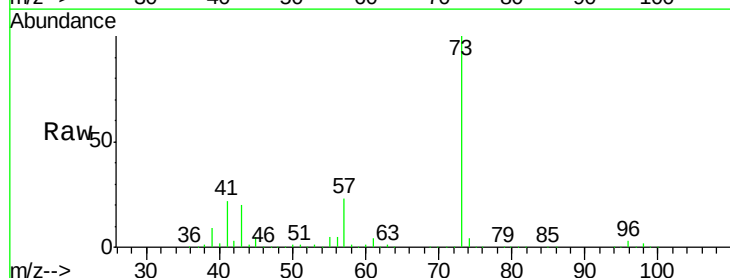
Tgt Ion: 73 Resp: 1872764

Ion Ratio Lower Upper

73 100

43 19.8 15.8 23.6

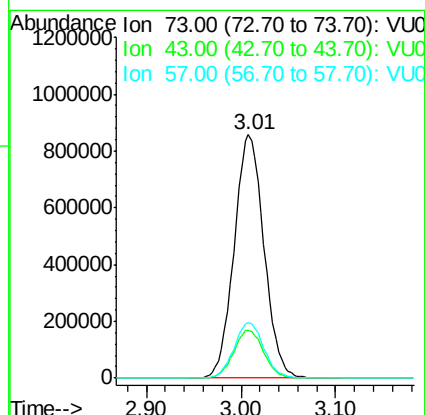
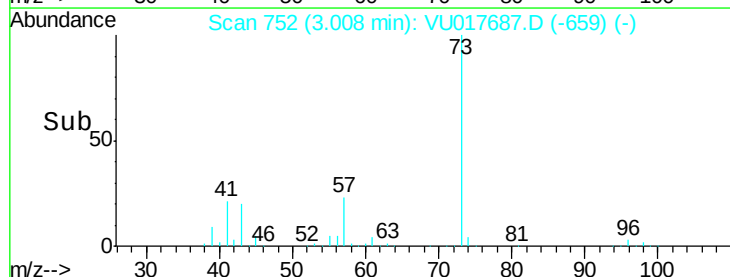
57 22.8 18.1 27.1

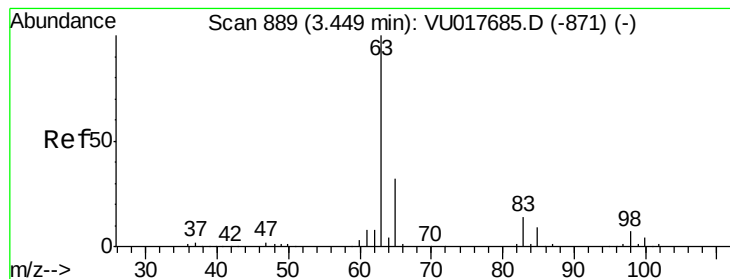


Abundance Ion 73.00 (72.70 to 73.70): VU017685.D (-734) (-)

Ion 43.00 (42.70 to 43.70): VU017685.D (-734) (-)

Ion 57.00 (56.70 to 57.70): VU017685.D (-734) (-)

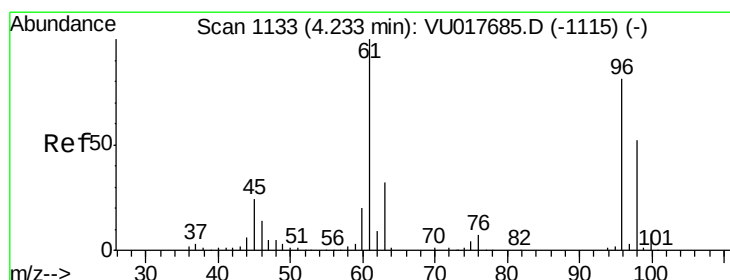
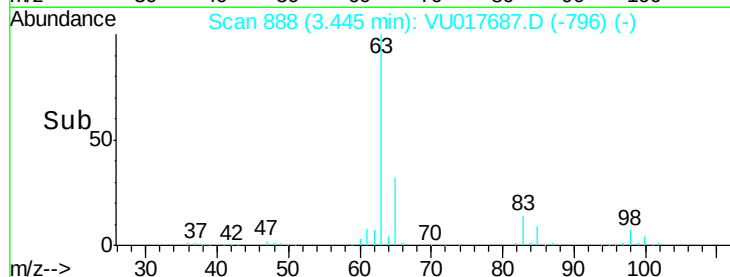
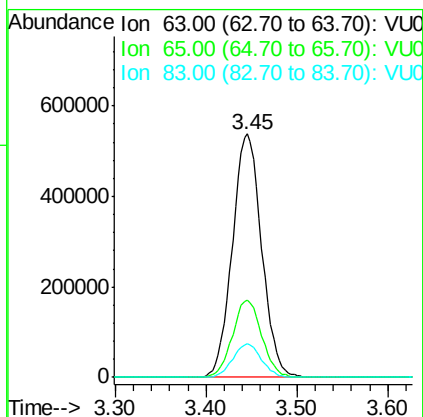
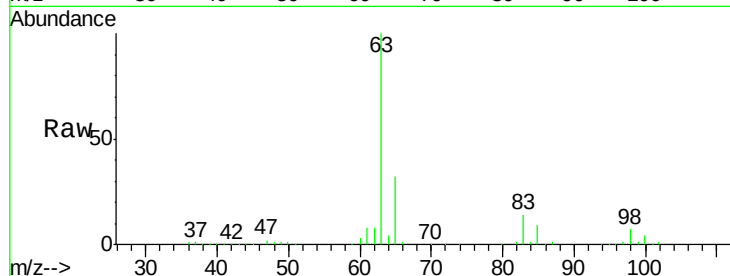




#19
 1,1-Dichloroethane
 Concen: 209.484 ug/L
 RT: 3.45 min Scan# 888
 Delta R.T. -0.00 min
 Lab File: VU017687.D
 Acq: 24 Jun 2017 13:12

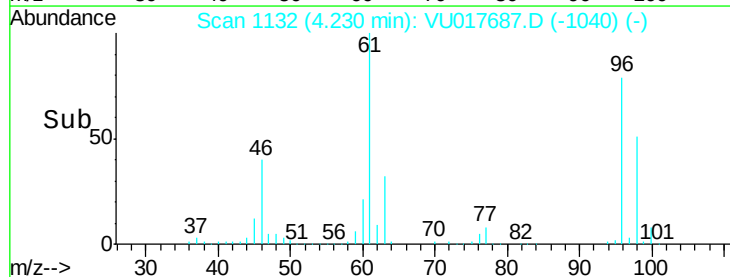
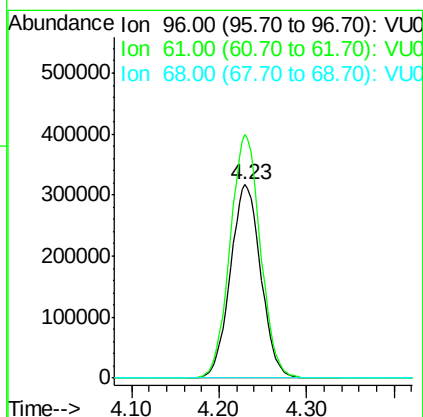
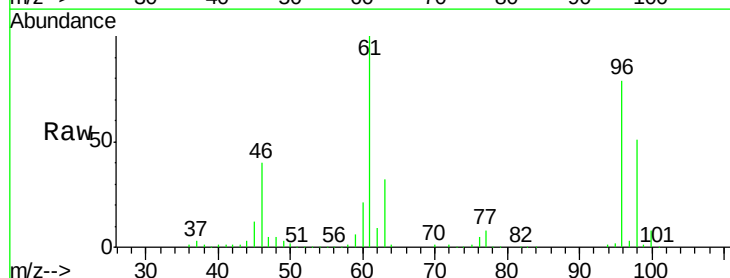
Instrument :
 BNA_M
 ClientSampleId :
 VSTD20018

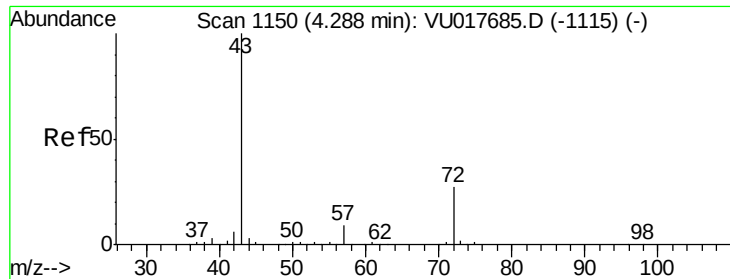
Tgt Ion: 63 Resp: 1200393
 Ion Ratio Lower Upper
 63 100
 65 31.8 22.2 41.2
 83 13.8 9.6 17.8



#20
 cis-1,2-Dichloroethene
 Concen: 199.791 ug/L
 RT: 4.23 min Scan# 1132
 Delta R.T. -0.00 min
 Lab File: VU017687.D
 Acq: 24 Jun 2017 13:12

Tgt Ion: 96 Resp: 765097
 Ion Ratio Lower Upper
 96 100
 61 126.1 87.1 161.7
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 464.903 ug/L

RT: 4.29 min Scan# 1151

Delta R.T. 0.00 min

Lab File: VU017687.D

Acq: 24 Jun 2017 13:12

Instrument :

BNA_M

ClientSampleId :

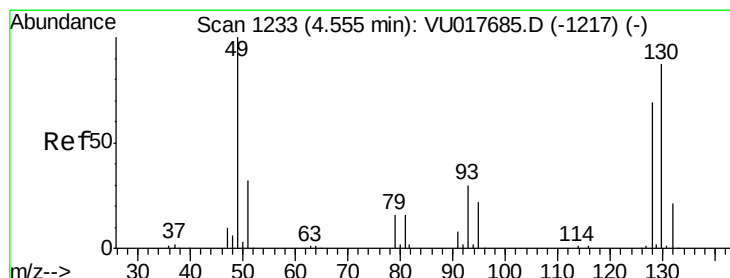
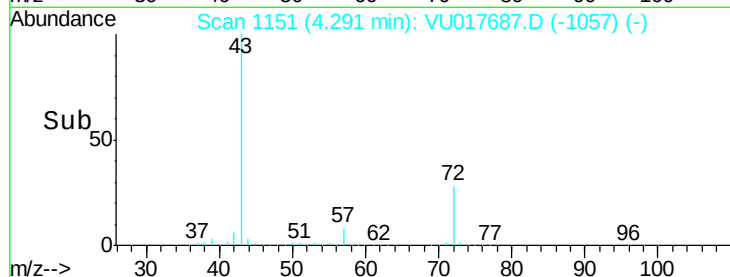
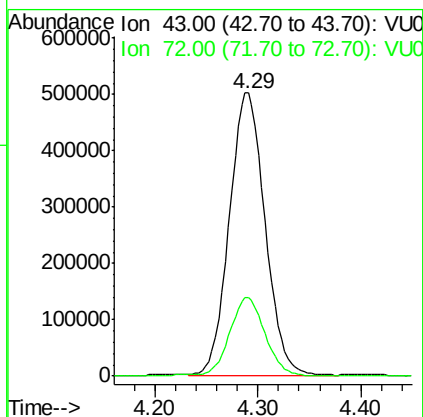
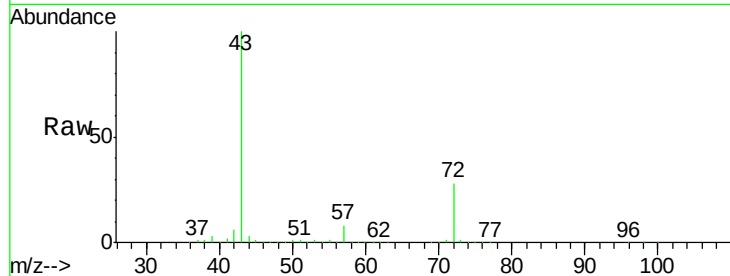
VSTD20018

Tgt Ion: 43 Resp: 1215745

Ion Ratio Lower Upper

43 100

72 27.9 13.4 40.1



#23

Bromochloromethane

Concen: 193.534 ug/L

RT: 4.55 min Scan# 1233

Delta R.T. -0.00 min

Lab File: VU017687.D

Acq: 24 Jun 2017 13:12

Tgt Ion: 128 Resp: 391564

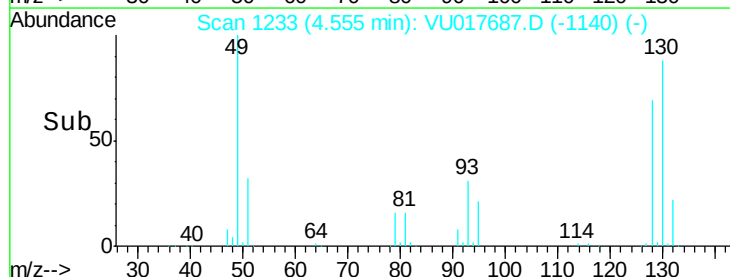
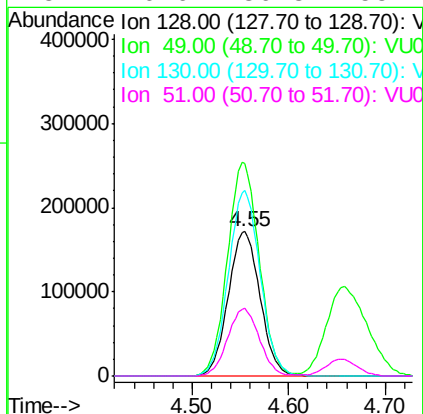
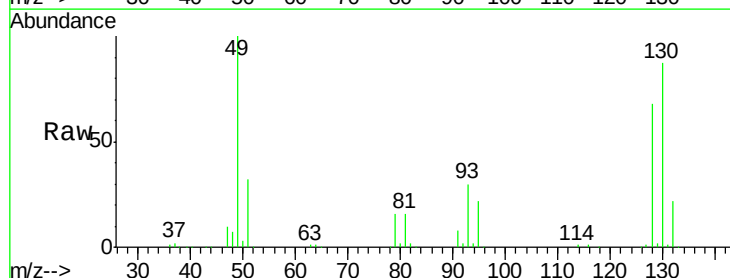
Ion Ratio Lower Upper

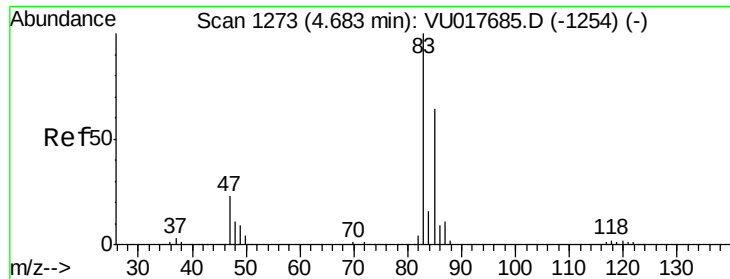
128 100

49 147.4 101.6 188.8

130 128.3 88.1 163.5

51 46.6 36.8 55.2

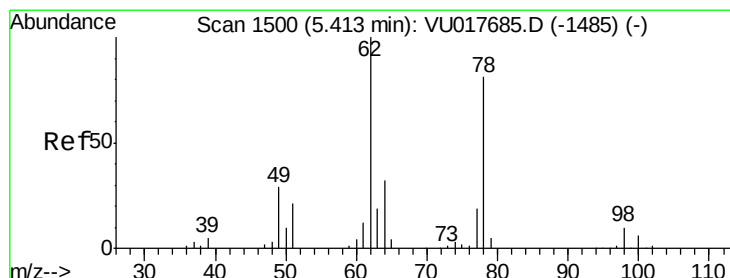
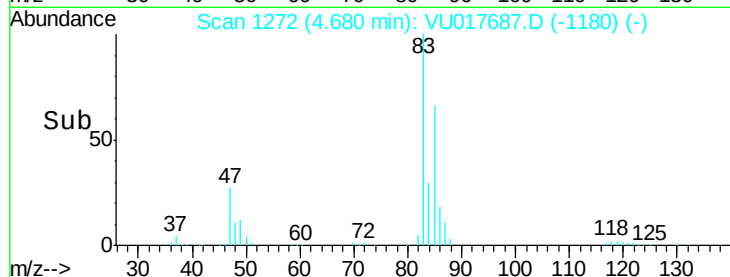
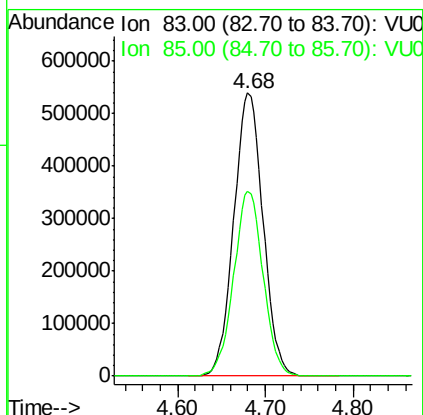
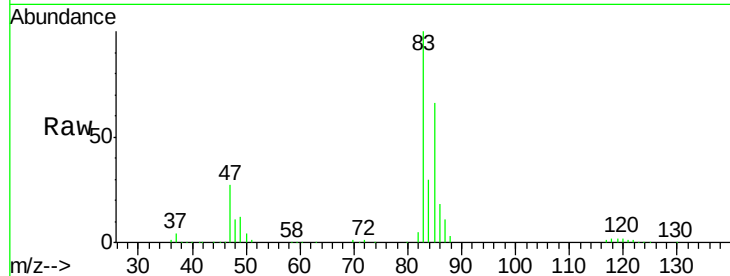




#25
Chloroform
Concen: 200.325 ug/L
RT: 4.68 min Scan# 1272
Delta R.T. -0.00 min
Lab File: VU017687.D
Acq: 24 Jun 2017 13:12

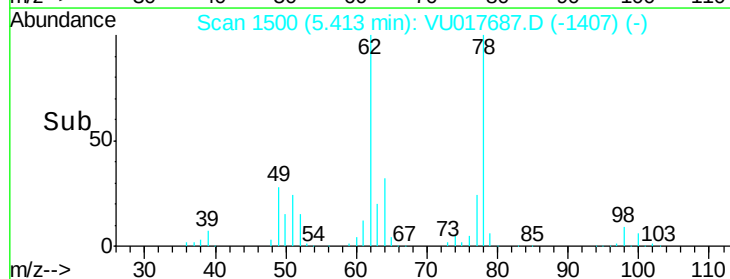
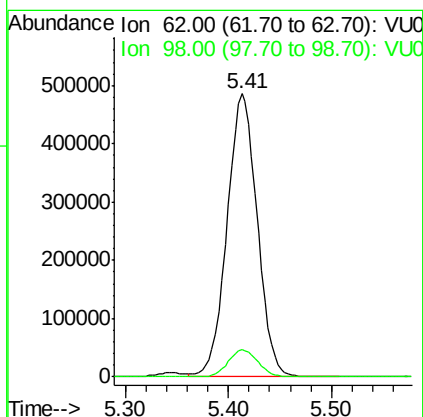
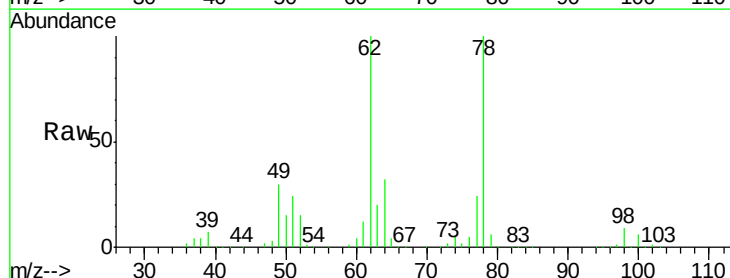
Instrument :
BNA_M
ClientSampleId :
VSTD20018

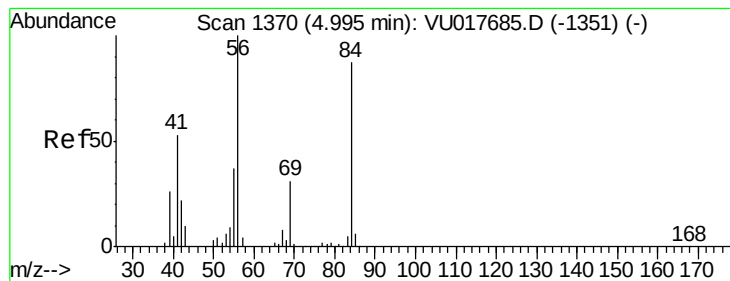
Tgt Ion: 83 Resp: 1251658
Ion Ratio Lower Upper
83 100
85 65.5 44.9 83.3



#27
1,2-Dichloroethane
Concen: 211.708 ug/L
RT: 5.41 min Scan# 1500
Delta R.T. -0.00 min
Lab File: VU017687.D
Acq: 24 Jun 2017 13:12

Tgt Ion: 62 Resp: 990052
Ion Ratio Lower Upper
62 100
98 9.5 7.7 11.5





#29

Cyclohexane

Concen: 238.785 ug/L

RT: 5.00 min Scan# 1370

Delta R.T. -0.00 min

Lab File: VU017687.D

Acq: 24 Jun 2017 13:12

Instrument :

BNA_M

ClientSampleId :

VSTD20018

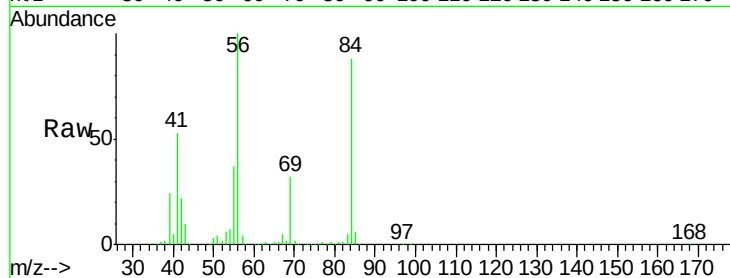
Tgt Ion: 56 Resp: 1077634

Ion Ratio Lower Upper

56 100

69 31.3 24.8 37.2

84 87.7 70.1 105.1

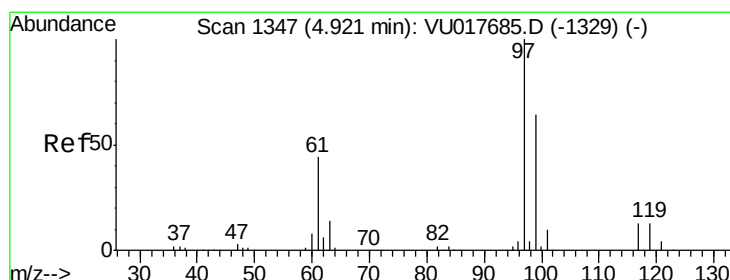
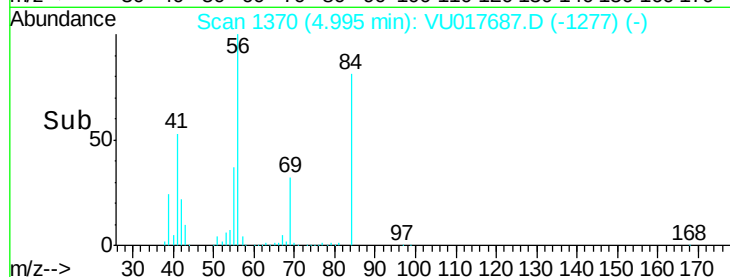
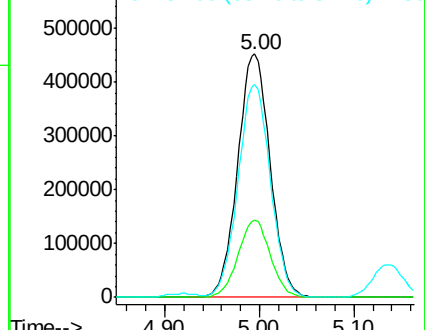


Abundance

Ion 56.00 (55.70 to 56.70): VU0

Ion 69.00 (68.70 to 69.70): VU0

Ion 84.00 (83.70 to 84.70): VU0



#30

1,1,1-Trichloroethane

Concen: 203.307 ug/L

RT: 4.92 min Scan# 1346

Delta R.T. -0.00 min

Lab File: VU017687.D

Acq: 24 Jun 2017 13:12

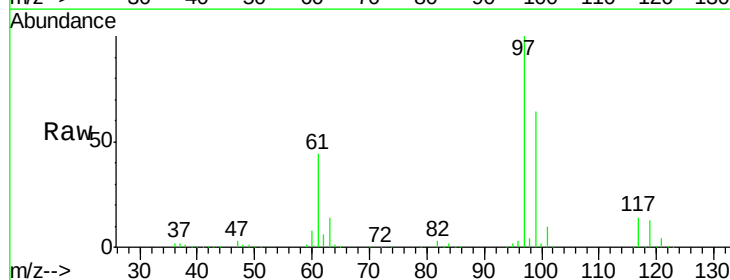
Tgt Ion: 97 Resp: 1032059

Ion Ratio Lower Upper

97 100

99 64.1 51.8 77.6

61 43.9 35.8 53.8

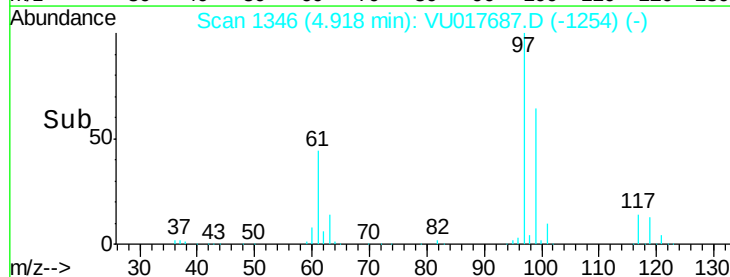
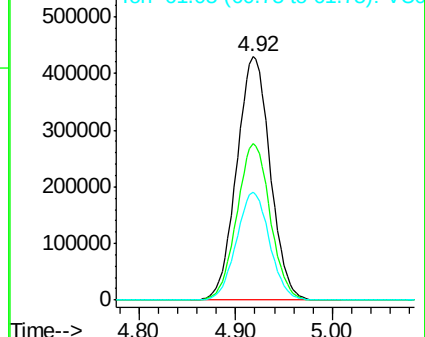


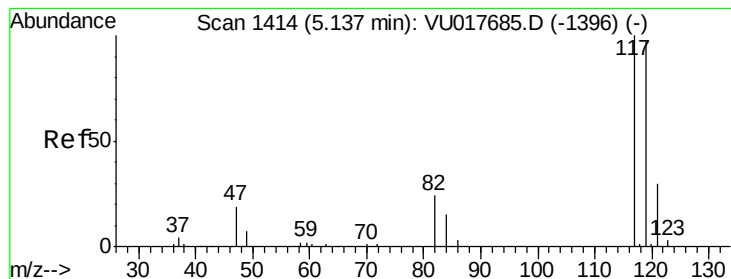
Abundance

Ion 97.00 (96.70 to 97.70): VU0

Ion 99.00 (98.70 to 99.70): VU0

Ion 61.05 (60.75 to 61.75): VU0





#31

Carbon tetrachloride

Concen: 213.478 ug/L

RT: 5.14 min Scan# 1414

Delta R.T. -0.00 min

Lab File: VU017687.D

Acq: 24 Jun 2017 13:12

Instrument :

BNA_M

ClientSampleId :

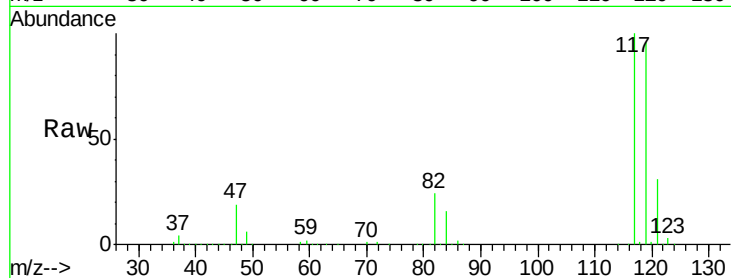
VSTD20018

Tgt Ion:117 Resp: 914144

Ion Ratio Lower Upper

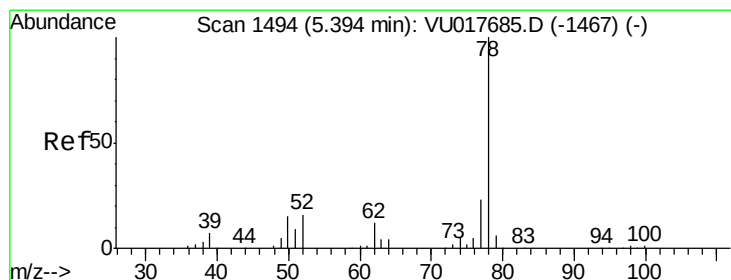
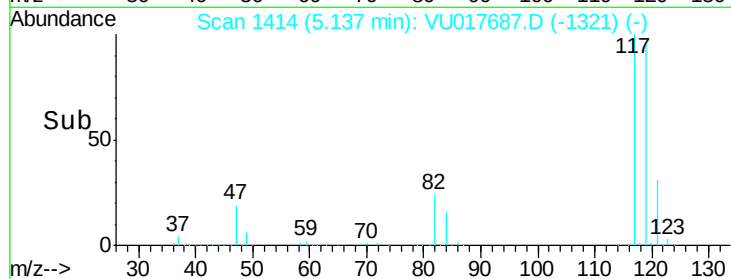
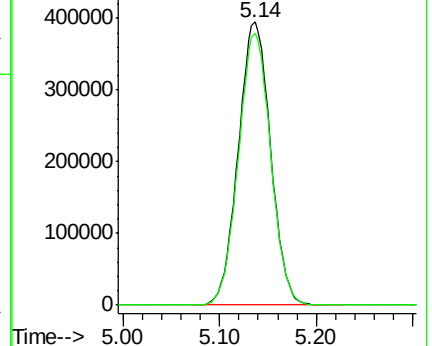
117 100

119 96.2 77.2 115.8



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 202.808 ug/L

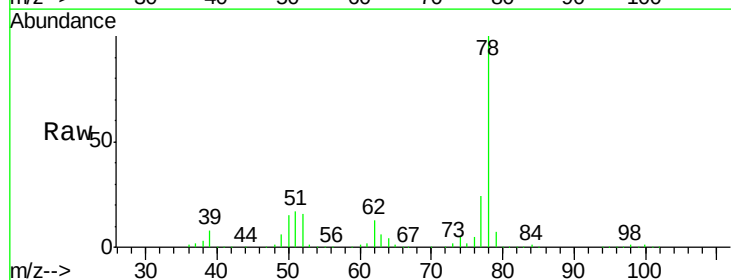
RT: 5.39 min Scan# 1494

Delta R.T. -0.00 min

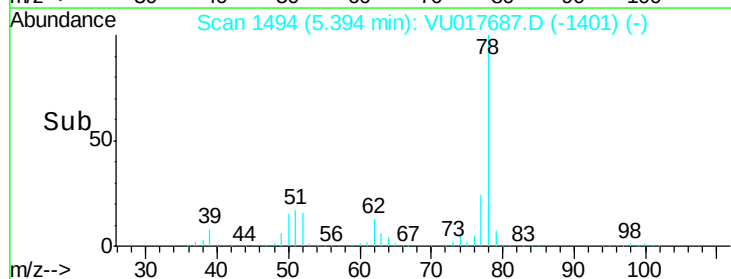
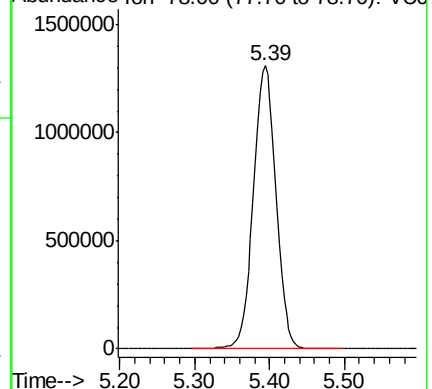
Lab File: VU017687.D

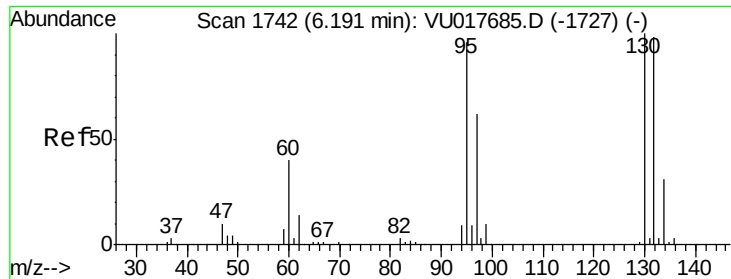
Acq: 24 Jun 2017 13:12

Tgt Ion: 78 Resp: 2756318



Abundance Ion 78.00 (77.70 to 78.70): VU0

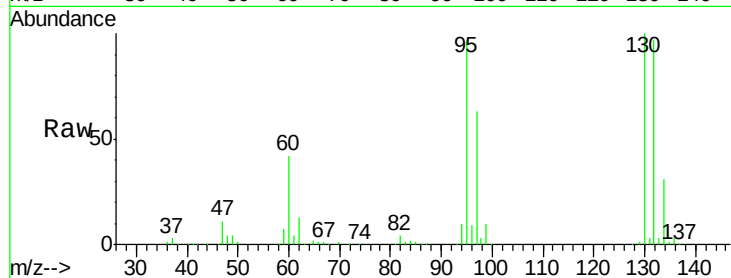




#34
 Trichloroethene
 Concen: 195.623 ug/L
 RT: 6.19 min Scan# 1741
 Delta R.T. -0.00 min
 Lab File: VU017687.D
 Acq: 24 Jun 2017 13:12

Instrument :
 BNA_M
 ClientSampleId :
 VSTD20018

Tgt Ion:	95	Resp:	742345
Ion	Ratio	Lower	Upper
95	100		
97	65.2	45.8	85.0
132	100.0	71.5	132.9
130	103.3	73.2	136.0



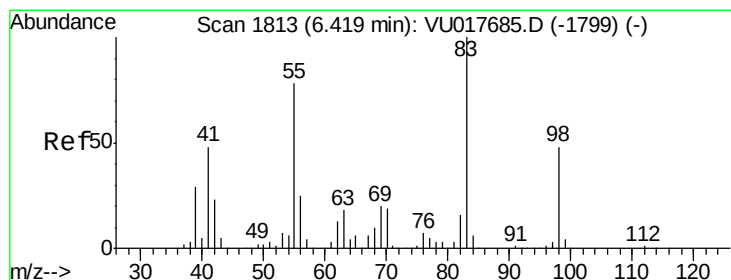
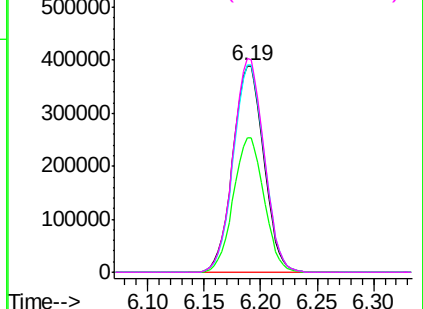
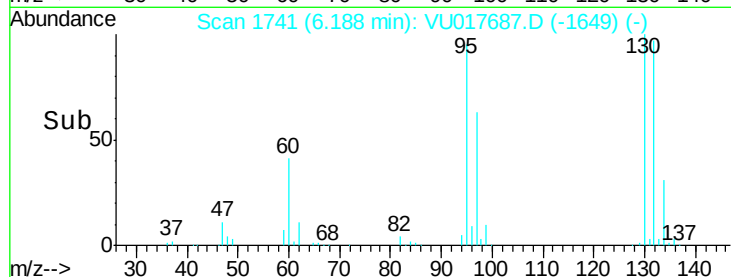
Abundance

Ion 95.00 (94.70 to 95.70): VU017687.D (-1727) (-)

Ion 97.00 (96.70 to 97.70): VU017687.D (-1727) (-)

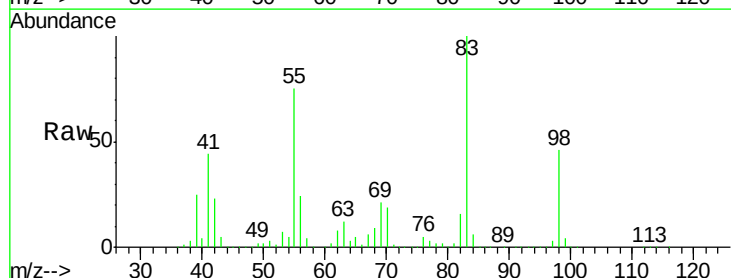
Ion 132.00 (131.70 to 132.70): VU017687.D (-1727) (-)

Ion 130.00 (129.70 to 130.70): VU017687.D (-1727) (-)



#35
 Methylcyclohexane
 Concen: 213.341 ug/L
 RT: 6.42 min Scan# 1812
 Delta R.T. -0.00 min
 Lab File: VU017687.D
 Acq: 24 Jun 2017 13:12

Tgt Ion:	83	Resp:	1140761
Ion	Ratio	Lower	Upper
83	100		
55	75.6	61.8	92.6
98	46.7	37.8	56.8

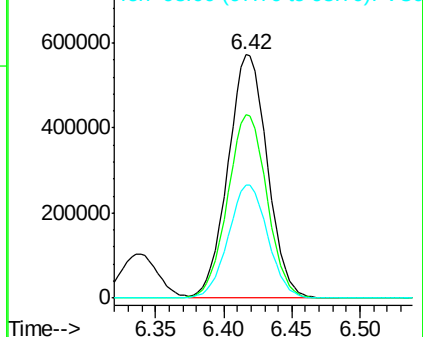
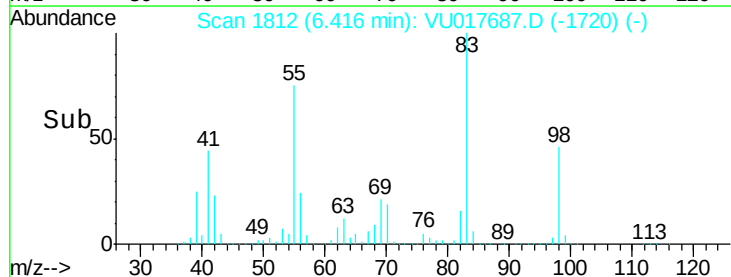


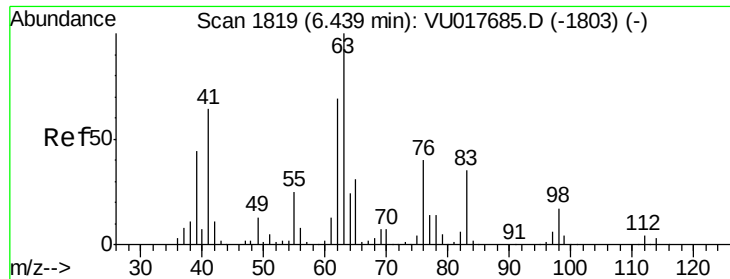
Abundance

Ion 83.00 (82.70 to 83.70): VU017687.D (-1720) (-)

Ion 55.00 (54.70 to 55.70): VU017687.D (-1720) (-)

Ion 98.00 (97.70 to 98.70): VU017687.D (-1720) (-)

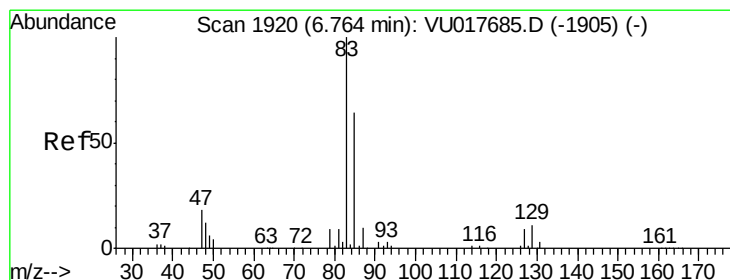
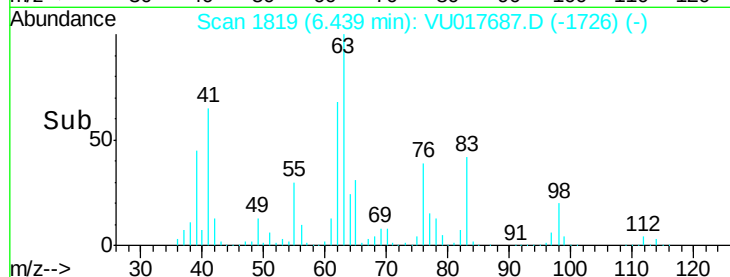
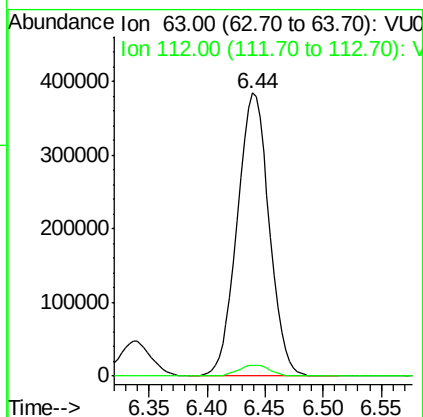
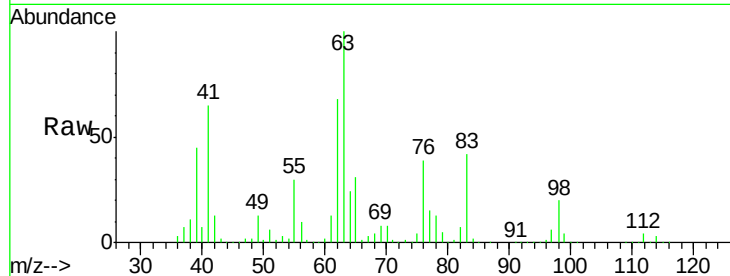




#37
 1,2-Dichloropropane
 Concen: 216.843 ug/L
 RT: 6.44 min Scan# 1819
 Delta R.T. -0.00 min
 Lab File: VU017687.D
 Acq: 24 Jun 2017 13:12

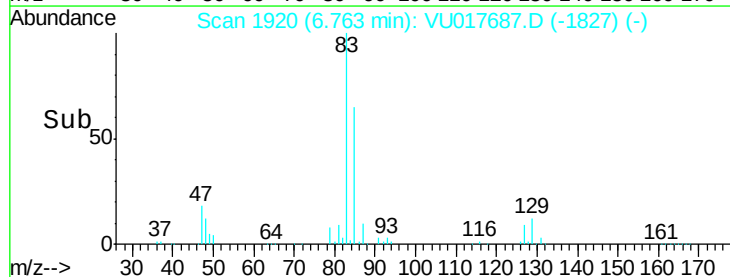
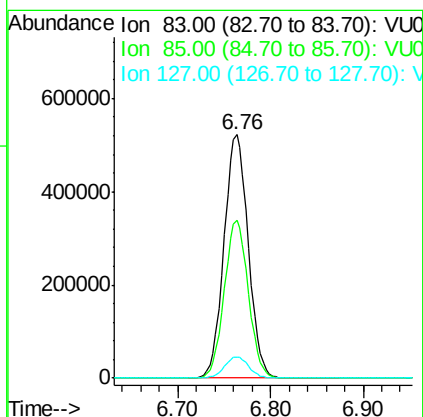
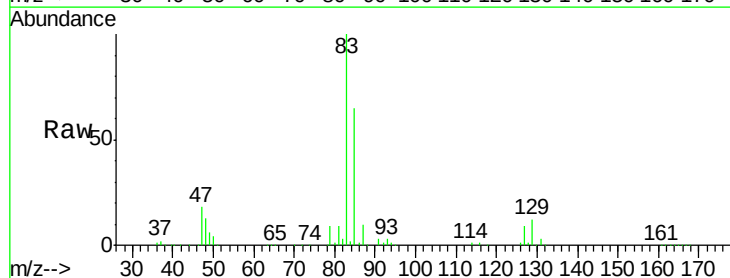
Instrument :
 BNA_M
 ClientSampleId :
 VSTD20018

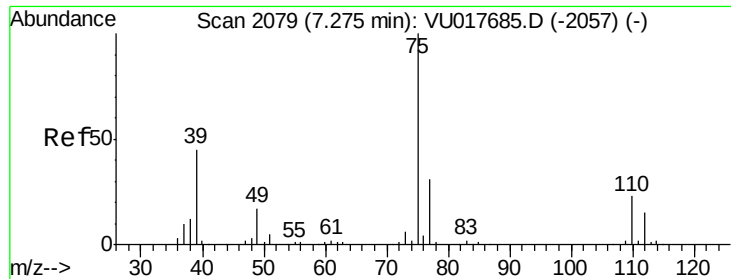
Tgt Ion: 63 Resp: 736988
 Ion Ratio Lower Upper
 63 100
 112 3.9 3.1 4.7



#38
 Bromodichloromethane
 Concen: 219.967 ug/L
 RT: 6.76 min Scan# 1920
 Delta R.T. -0.00 min
 Lab File: VU017687.D
 Acq: 24 Jun 2017 13:12

Tgt Ion: 83 Resp: 943232
 Ion Ratio Lower Upper
 83 100
 85 64.9 44.9 83.3
 127 8.8 7.0 10.4

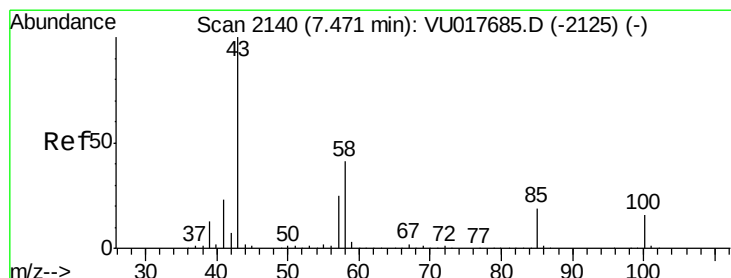
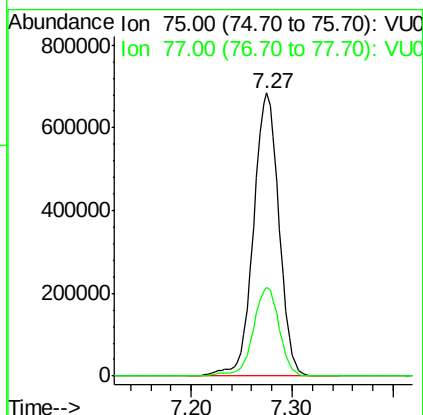
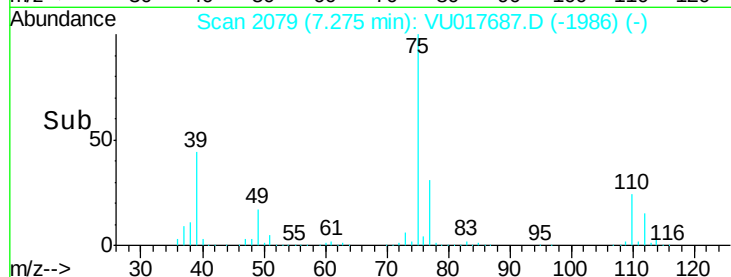
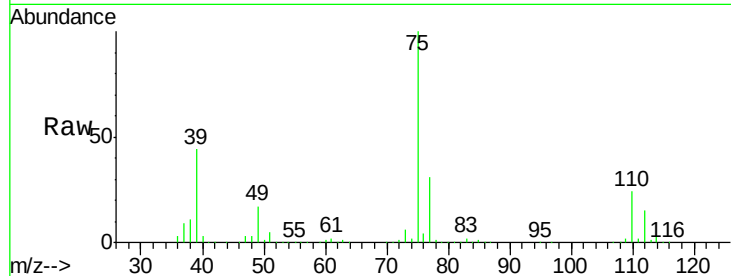




#39
 cis-1,3-Dichloropropene
 Concen: 232.513 ug/L
 RT: 7.27 min Scan# 2079
 Delta R.T. -0.00 min
 Lab File: VU017687.D
 Acq: 24 Jun 2017 13:12

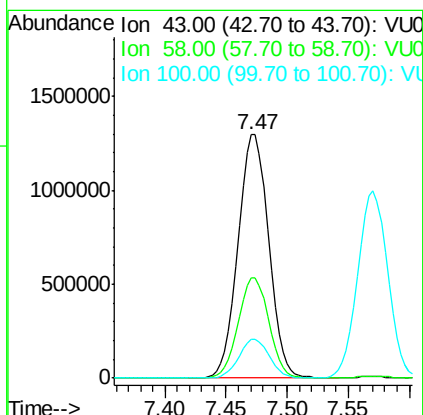
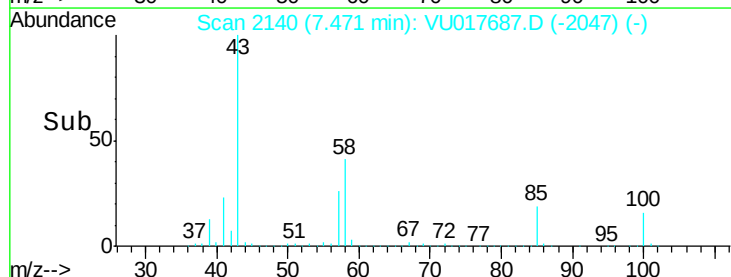
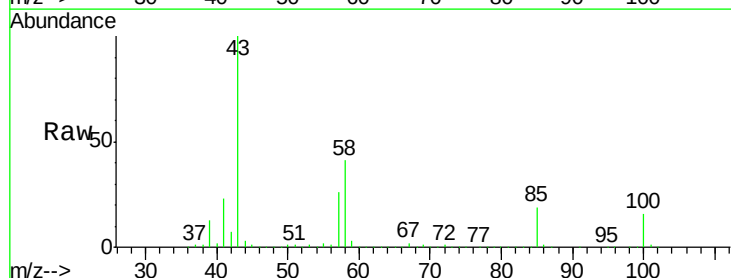
Instrument :
 BNA_M
 ClientSampleId :
 VSTD20018

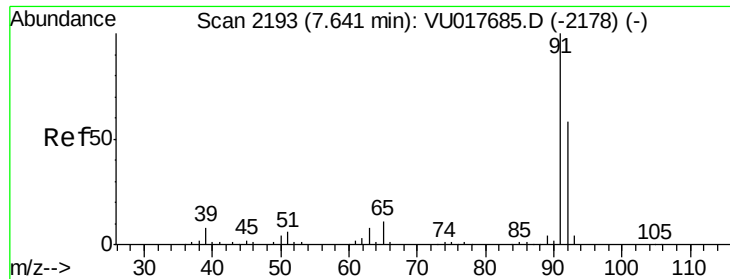
Tgt Ion: 75 Resp: 1192570
 Ion Ratio Lower Upper
 75 100
 77 31.5 22.0 41.0



#40
 4-Methyl-2-pentanone
 Concen: 526.686 ug/L
 RT: 7.47 min Scan# 2140
 Delta R.T. -0.00 min
 Lab File: VU017687.D
 Acq: 24 Jun 2017 13:12

Tgt Ion: 43 Resp: 2254674
 Ion Ratio Lower Upper
 43 100
 58 41.0 32.3 48.5
 100 15.8 12.6 19.0





#42

Toluene

Concen: 198.653 ug/L

RT: 7.64 min Scan# 2193

Delta R.T. -0.00 min

Lab File: VU017687.D

Acq: 24 Jun 2017 13:12

Instrument :

BNA_M

ClientSampleId :

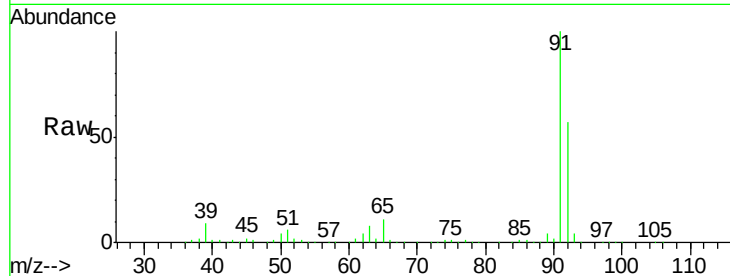
VSTD20018

Tgt Ion: 91 Resp: 3051824

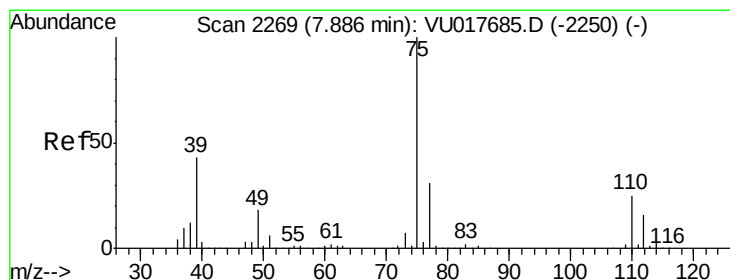
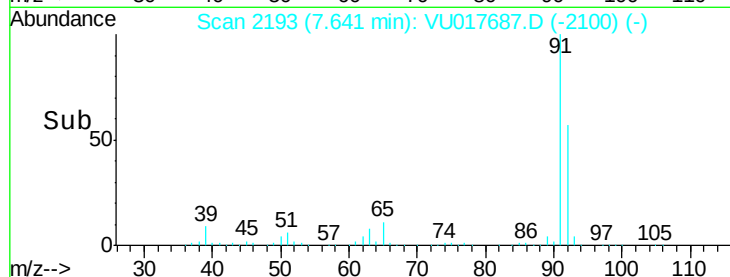
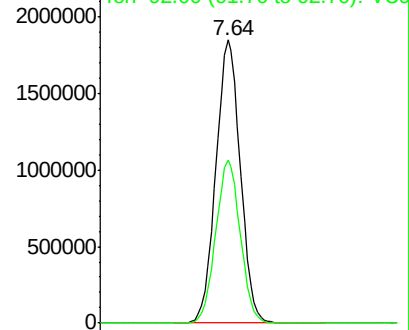
Ion Ratio Lower Upper

91 100

92 57.4 40.7 75.5



Abundance Ion 91.00 (90.70 to 91.70): VU017687.D (-2178) (-)



#44

trans-1,3-Dichloropropene

Concen: 237.447 ug/L

RT: 7.89 min Scan# 2269

Delta R.T. -0.00 min

Lab File: VU017687.D

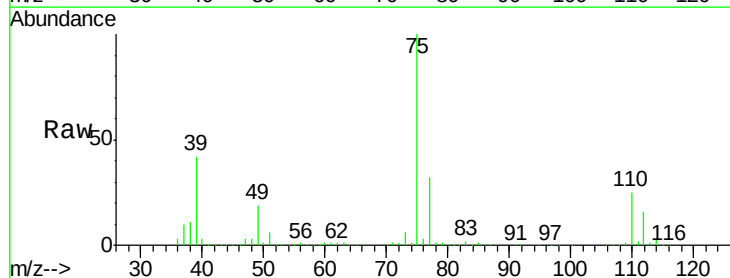
Acq: 24 Jun 2017 13:12

Tgt Ion: 75 Resp: 1090216

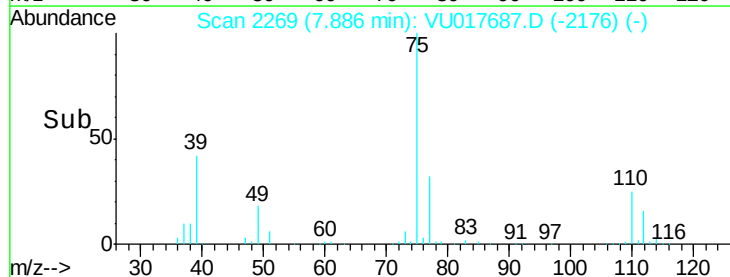
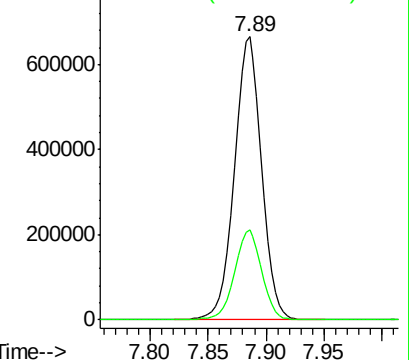
Ion Ratio Lower Upper

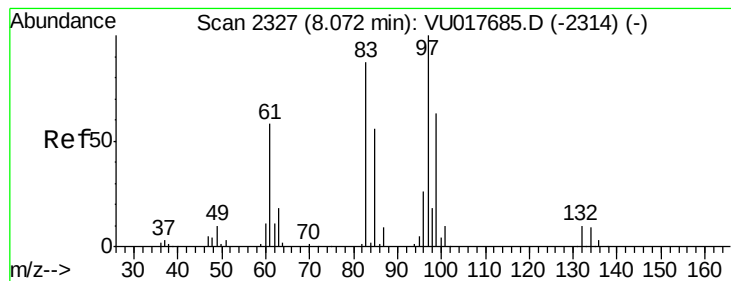
75 100

77 31.7 21.6 40.2



Abundance Ion 75.00 (74.70 to 75.70): VU017687.D (-2250) (-)





#45

1,1,2-Trichloroethane

Concen: 194.752 ug/L

RT: 8.07 min Scan# 2327

Delta R.T. -0.00 min

Lab File: VU017687.D

Acq: 24 Jun 2017 13:12

Instrument :

BNA_M

ClientSampleId :

VSTD20018

Tgt Ion: 97 Resp: 726471

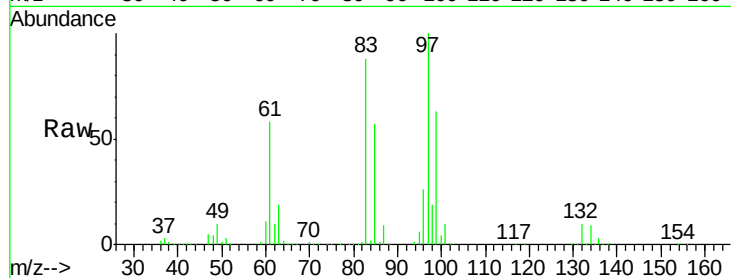
Ion Ratio Lower Upper

97 100

99 63.4 43.8 81.3

83 87.6 60.8 113.0

85 57.0 39.4 73.2

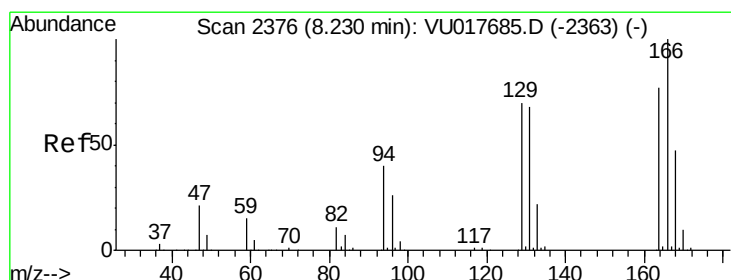
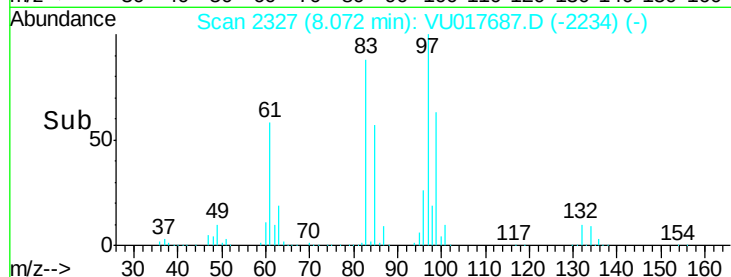
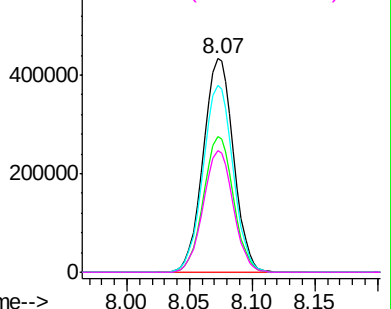


Abundance Ion 97.00 (96.70 to 97.70): VU0

Ion 99.00 (98.70 to 99.70): VU0

Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0



#46

Tetrachloroethene

Concen: 183.686 ug/L

RT: 8.23 min Scan# 2376

Delta R.T. -0.00 min

Lab File: VU017687.D

Acq: 24 Jun 2017 13:12

Tgt Ion: 164 Resp: 630643

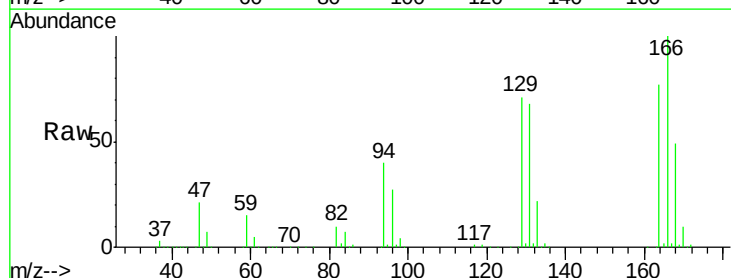
Ion Ratio Lower Upper

164 100

129 92.0 63.6 118.2

131 88.6 62.0 115.2

166 129.3 90.9 168.9

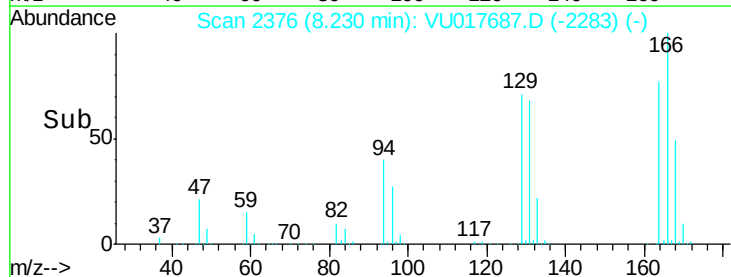
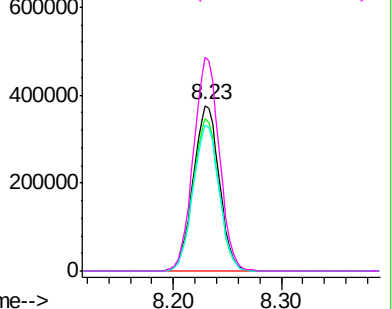


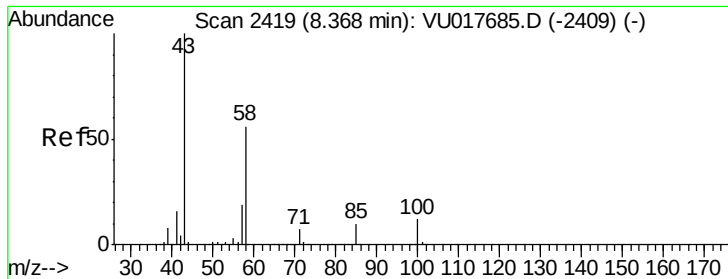
Abundance Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V



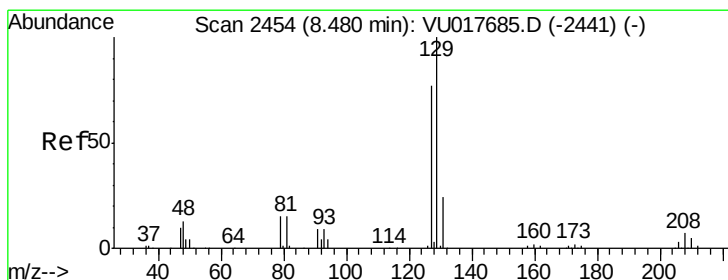
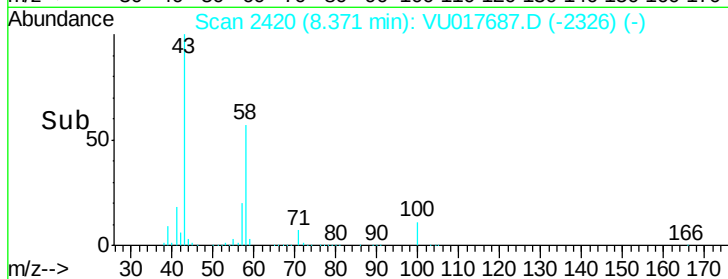
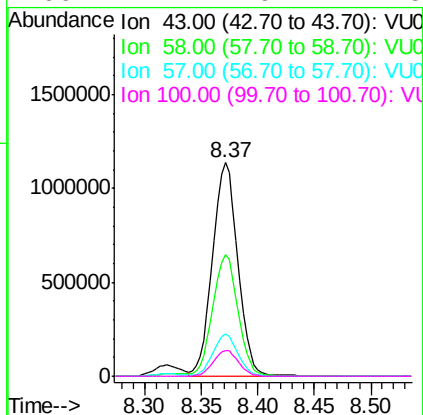
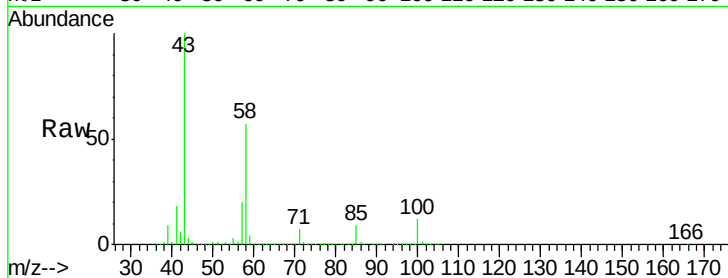


#48
2-Hexanone
Concen: 491.896 ug/L
RT: 8.37 min Scan# 2420
Delta R.T. 0.00 min
Lab File: VU017687.D
Acq: 24 Jun 2017 13:12

Instrument :
BNA_M
ClientSampleId :
VSTD20018

Tgt Ion: 43 Resp: 1760215

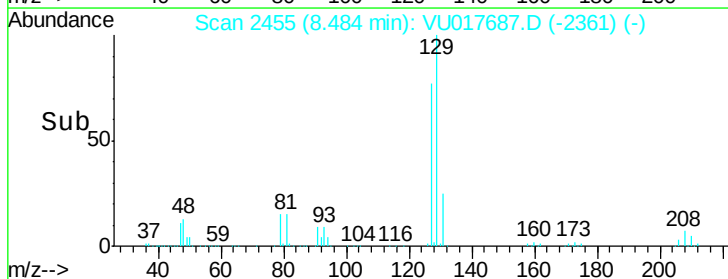
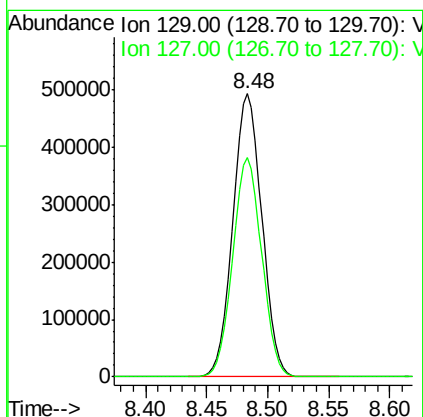
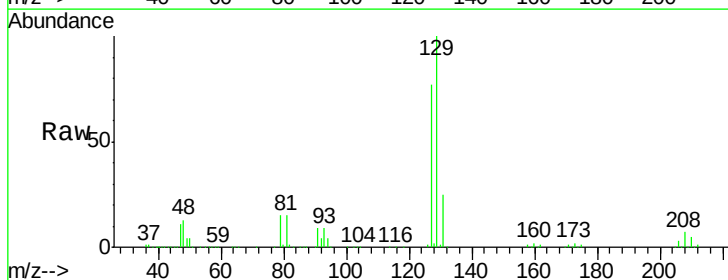
Ion	Ratio	Lower	Upper
43	100		
58	57.0	45.4	68.2
57	19.5	15.4	23.0
100	12.2	9.7	14.5

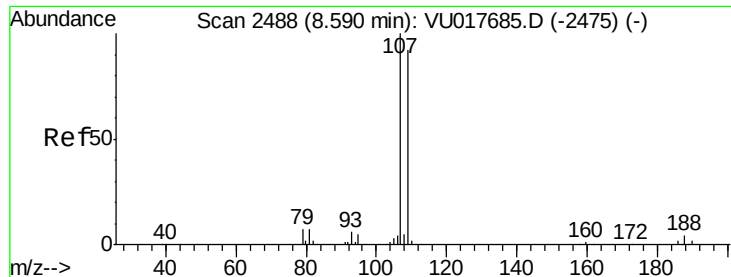


#49
Dibromochloromethane
Concen: 217.042 ug/L
RT: 8.48 min Scan# 2455
Delta R.T. 0.00 min
Lab File: VU017687.D
Acq: 24 Jun 2017 13:12

Tgt Ion: 129 Resp: 814587

Ion	Ratio	Lower	Upper
129	100		
127	77.3	54.2	100.6

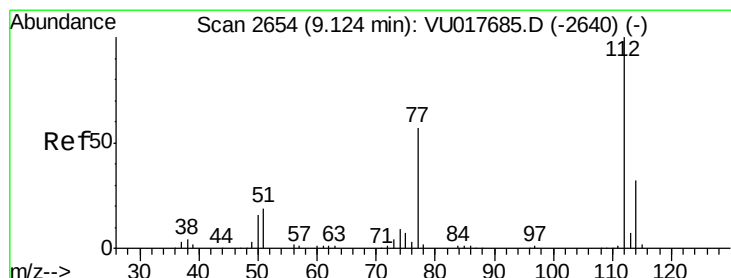
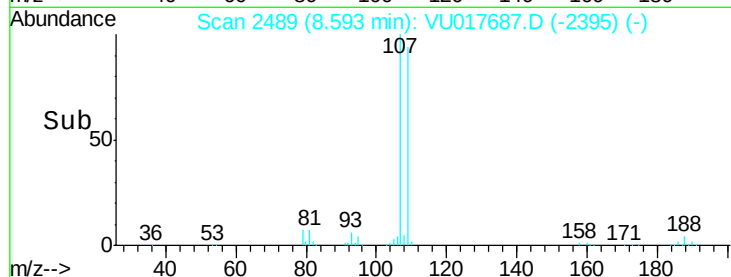
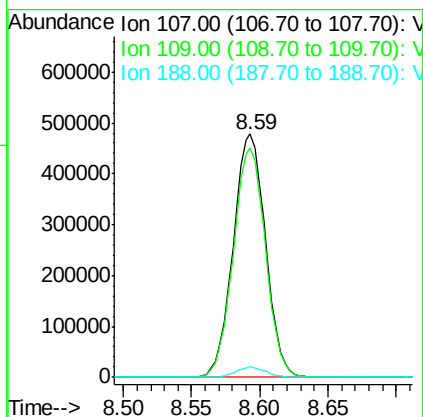
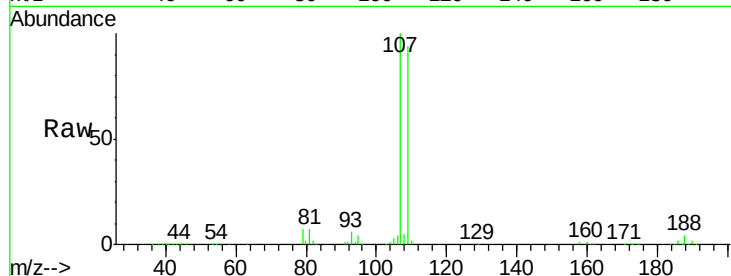




#50
1,2-Dibromoethane
Concen: 195.726 ug/L
RT: 8.59 min Scan# 2489
Delta R.T. 0.00 min
Lab File: VU017687.D
Acq: 24 Jun 2017 13:12

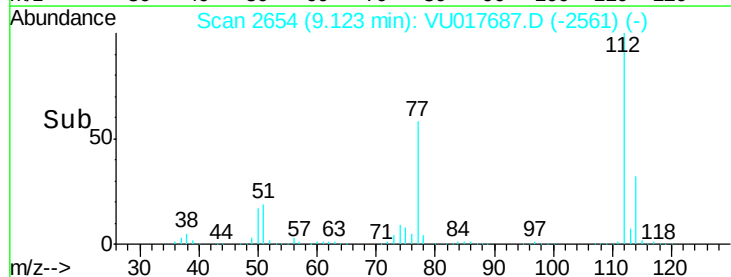
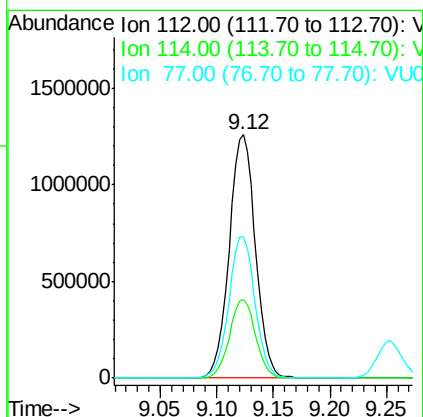
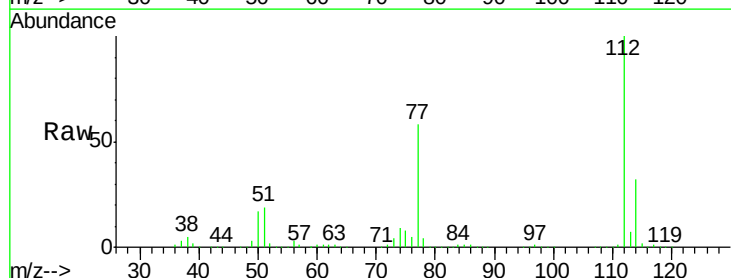
Instrument :
BNA_M
ClientSampleId :
VSTD20018

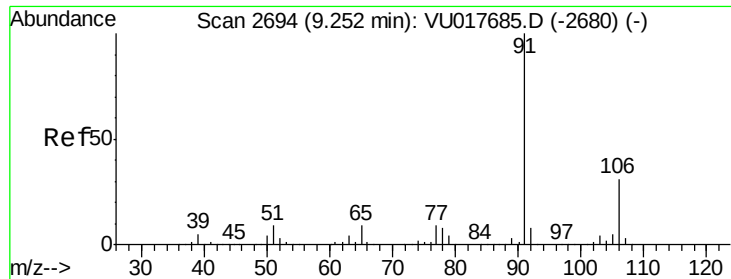
Tgt Ion:107 Resp: 784333
Ion Ratio Lower Upper
107 100
109 94.4 64.8 120.3
188 4.2 3.3 4.9



#51
Chlorobenzene
Concen: 192.819 ug/L
RT: 9.12 min Scan# 2654
Delta R.T. -0.00 min
Lab File: VU017687.D
Acq: 24 Jun 2017 13:12

Tgt Ion:112 Resp: 2029567
Ion Ratio Lower Upper
112 100
114 32.2 22.7 42.1
77 57.9 45.6 68.4





#52

Ethylbenzene

Concen: 202.965 ug/L

RT: 9.25 min Scan# 2694

Delta R.T. -0.00 min

Lab File: VU017687.D

Acq: 24 Jun 2017 13:12

Instrument :

BNA_M

ClientSampleId :

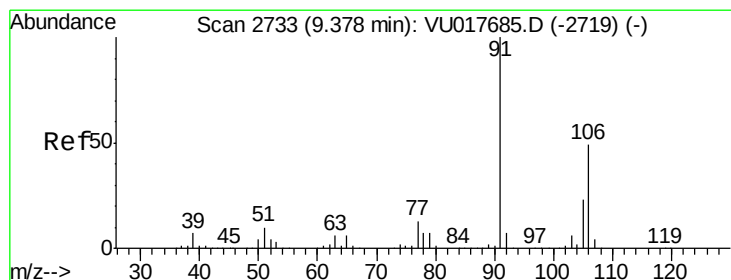
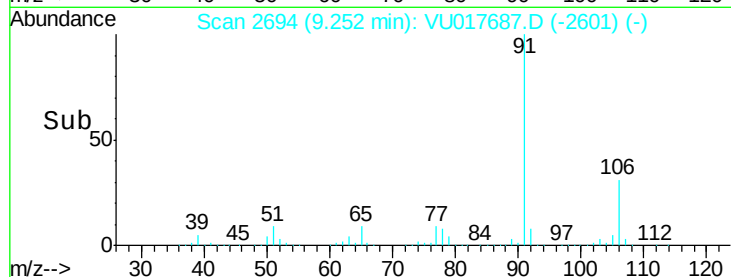
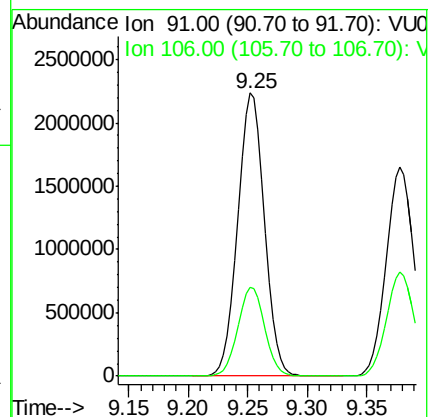
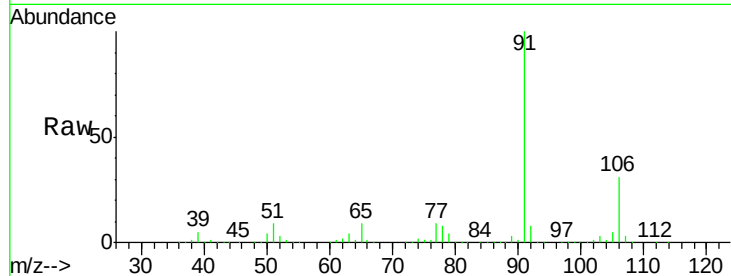
VSTD20018

Tgt Ion: 91 Resp: 3474965

Ion Ratio Lower Upper

91 100

106 31.4 21.7 40.3



#53

m,p-Xylene

Concen: 199.266 ug/L

RT: 9.38 min Scan# 2733

Delta R.T. -0.00 min

Lab File: VU017687.D

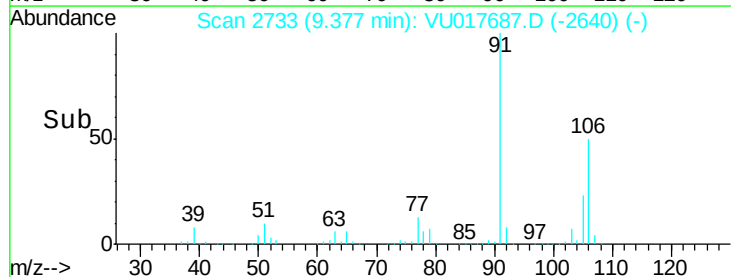
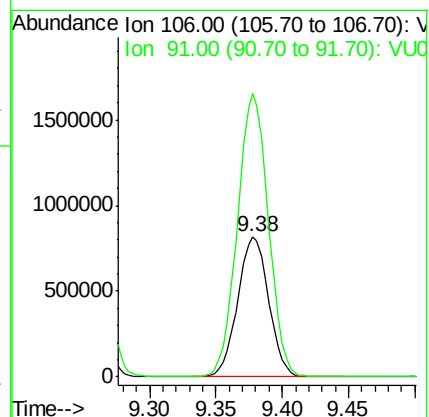
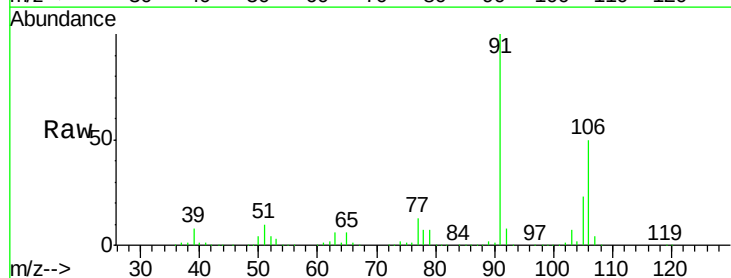
Acq: 24 Jun 2017 13:12

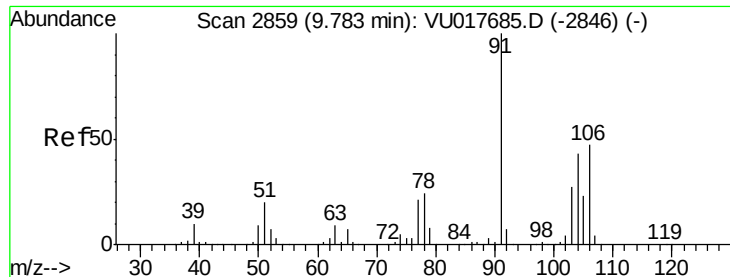
Tgt Ion: 106 Resp: 1321407

Ion Ratio Lower Upper

106 100

91 201.7 142.4 264.4





#54

o-xylene

Concen: 199.461 ug/L

RT: 9.78 min Scan# 2859

Delta R.T. -0.00 min

Lab File: VU017687.D

Acq: 24 Jun 2017 13:12

Instrument :

BNA_M

ClientSampleId :

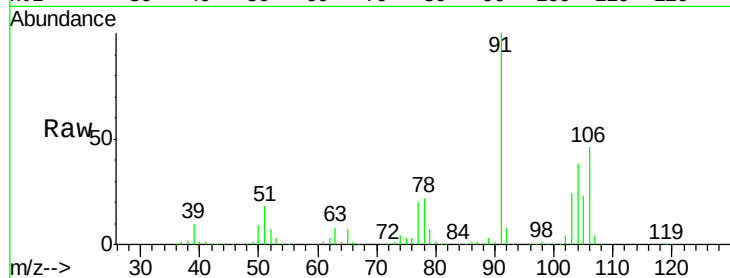
VSTD20018

Tgt Ion:106 Resp: 1305074

Ion Ratio Lower Upper

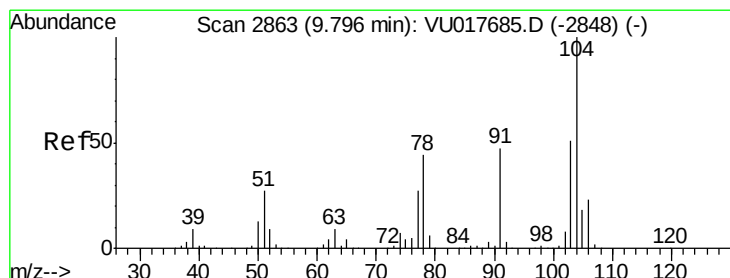
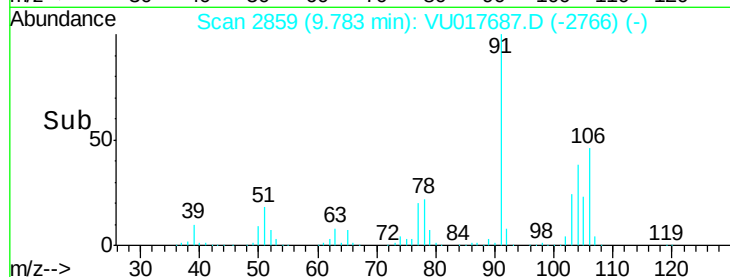
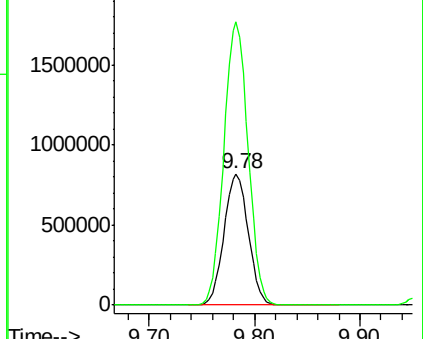
106 100

91 215.5 149.6 277.8



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 201.993 ug/L

RT: 9.80 min Scan# 2863

Delta R.T. -0.00 min

Lab File: VU017687.D

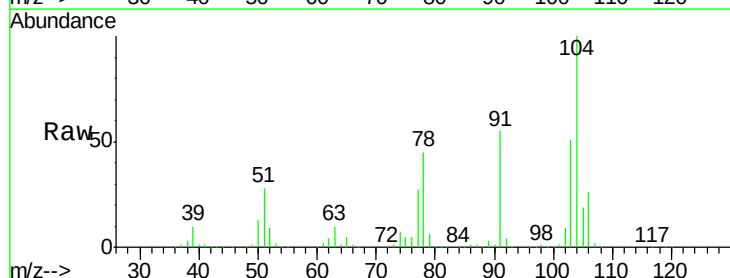
Acq: 24 Jun 2017 13:12

Tgt Ion:104 Resp: 2311328

Ion Ratio Lower Upper

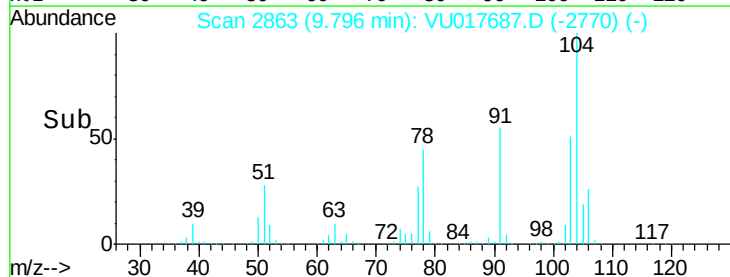
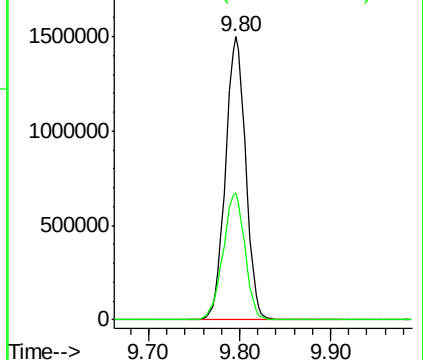
104 100

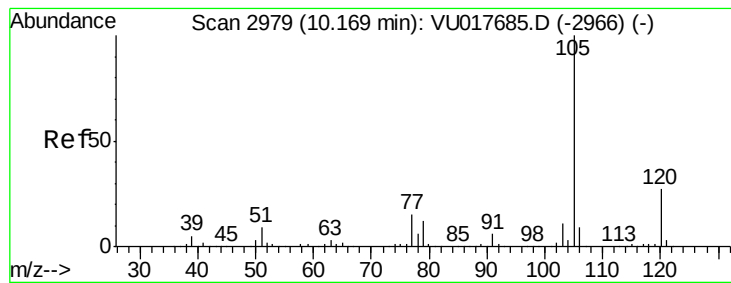
78 44.8 30.9 57.5



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 200.127 ug/L

RT: 10.17 min Scan# 2979

Delta R.T. -0.00 min

Lab File: VU017687.D

Acq: 24 Jun 2017 13:12

Instrument :

BNA_M

ClientSampleId :

VSTD20018

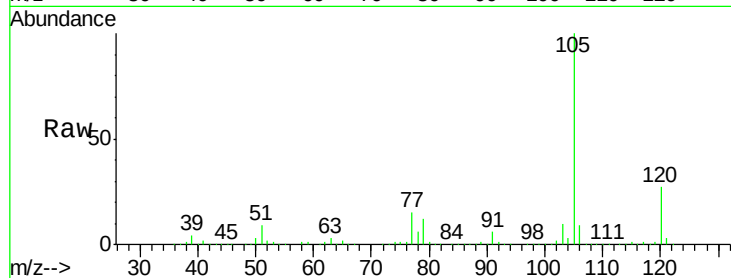
Tgt Ion:105 Resp: 3423224

Ion Ratio Lower Upper

105 100

120 26.9 21.3 31.9

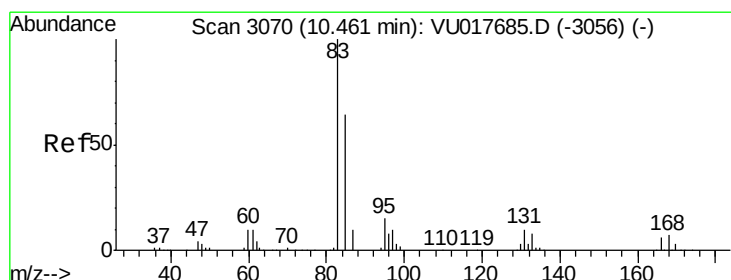
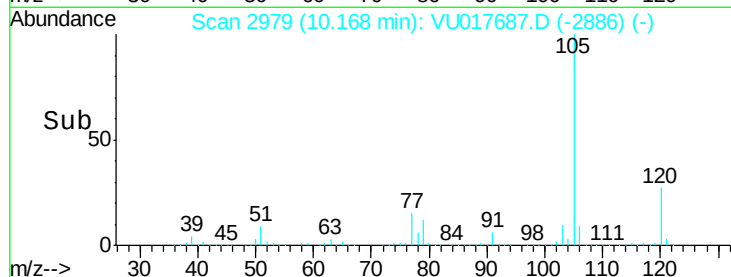
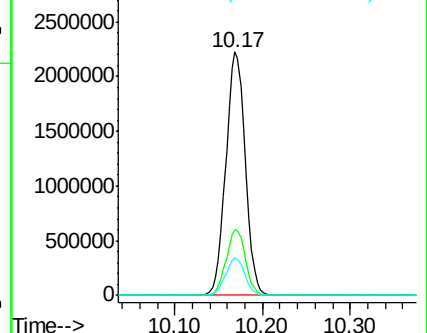
77 15.3 12.3 18.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 201.176 ug/L

RT: 10.46 min Scan# 3070

Delta R.T. -0.00 min

Lab File: VU017687.D

Acq: 24 Jun 2017 13:12

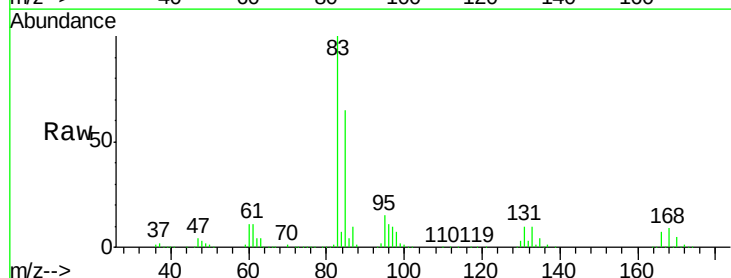
Tgt Ion: 83 Resp: 1221160

Ion Ratio Lower Upper

83 100

85 64.7 44.9 83.5

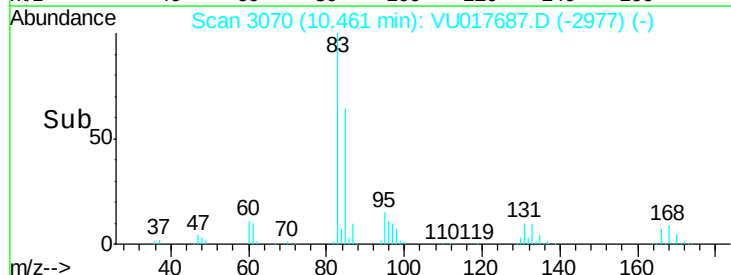
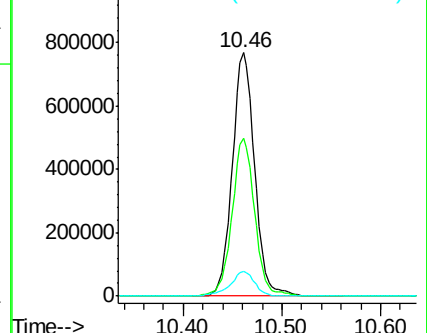
131 10.3 8.2 12.2

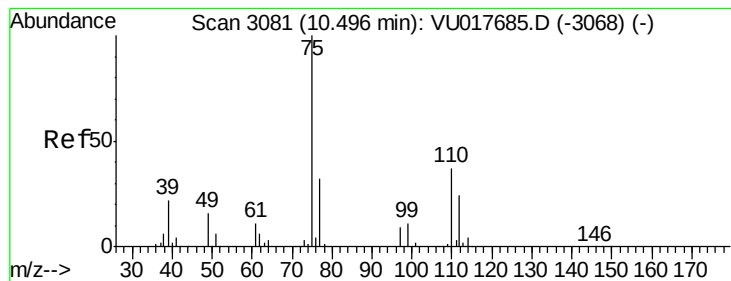


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 204.091 ug/L

RT: 10.50 min Scan# 3081

Delta R.T. -0.00 min

Lab File: VU017687.D

Acq: 24 Jun 2017 13:12

Instrument :

BNA_M

ClientSampleId :

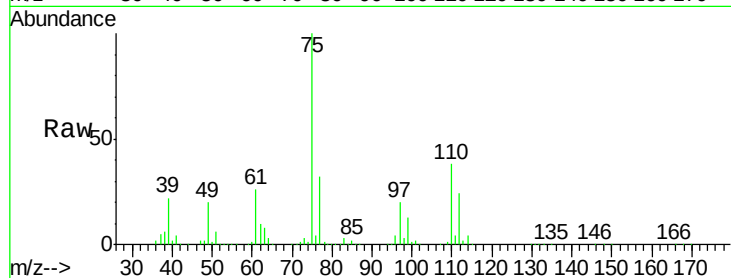
VSTD20018

Tgt Ion: 75 Resp: 950543

Ion Ratio Lower Upper

75 100

77 32.2 25.7 38.5



Abundance Ion 75.00 (74.70 to 75.70): VU017687.D (-2459) (-)

Ion 77.00 (76.70 to 77.70): VU017687.D (-2459) (-)

10.50

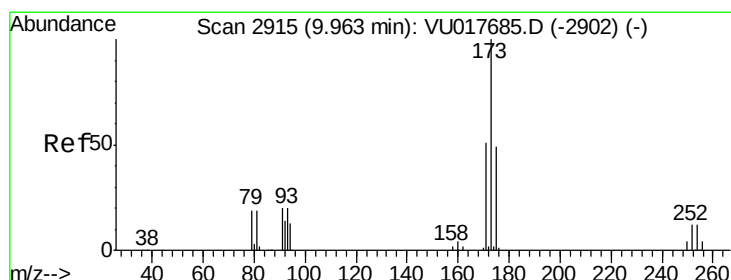
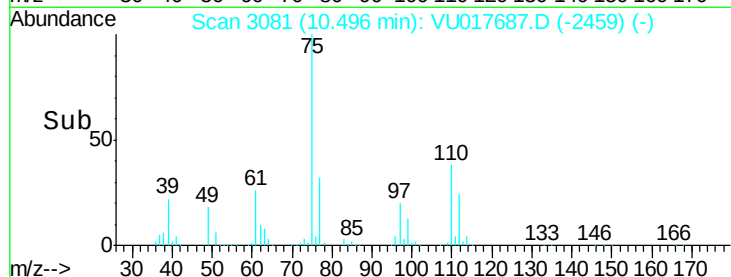
600000

400000

200000

0

Time--> 10.40 10.50 10.60



#61

Bromoform

Concen: 240.682 ug/L

RT: 9.96 min Scan# 2915

Delta R.T. -0.00 min

Lab File: VU017687.D

Acq: 24 Jun 2017 13:12

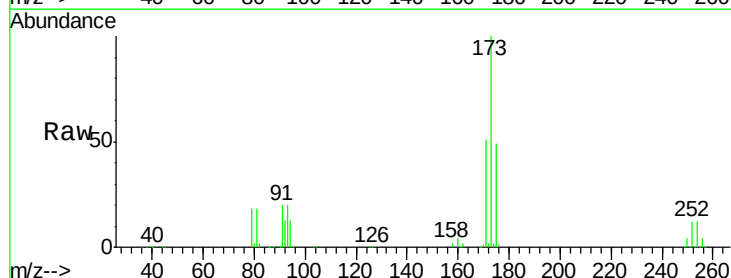
Tgt Ion: 173 Resp: 657612

Ion Ratio Lower Upper

173 100

175 49.2 39.0 58.4

254 11.7 9.4 14.2



Abundance Ion 173.00 (172.70 to 173.70): VU017687.D (-2822) (-)

Ion 175.00 (174.70 to 175.70): VU017687.D (-2822) (-)

Ion 254.00 (253.70 to 254.70): VU017687.D (-2822) (-)

9.96

500000

400000

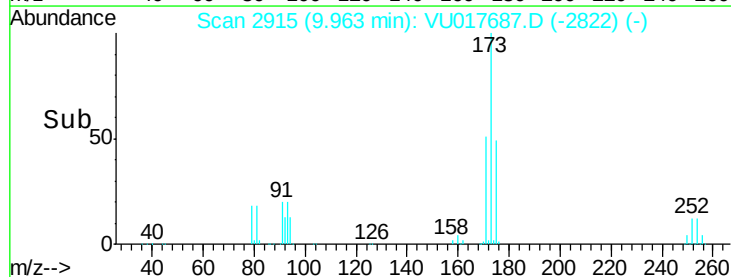
300000

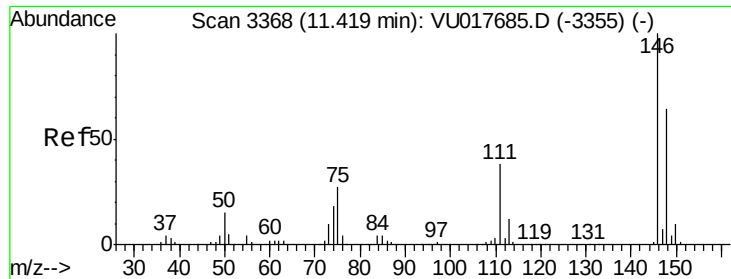
200000

100000

0

Time--> 9.90 9.96 10.00





#62

1,3-Dichlorobenzene

Concen: 194.566 ug/L

RT: 11.42 min Scan# 3368

Delta R.T. -0.00 min

Lab File: VU017687.D

Acq: 24 Jun 2017 13:12

Instrument :

BNA_M

ClientSampleId :

VSTD20018

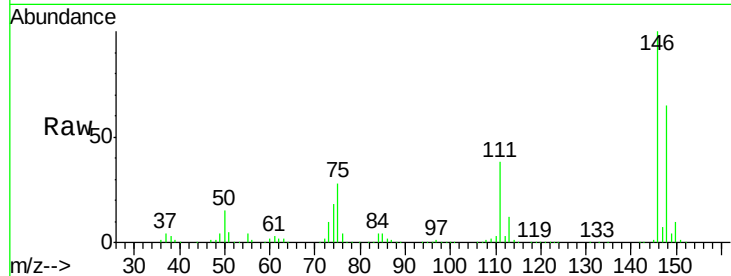
Tgt Ion:146 Resp: 1719116

Ion Ratio Lower Upper

146 100

111 38.3 26.9 50.1

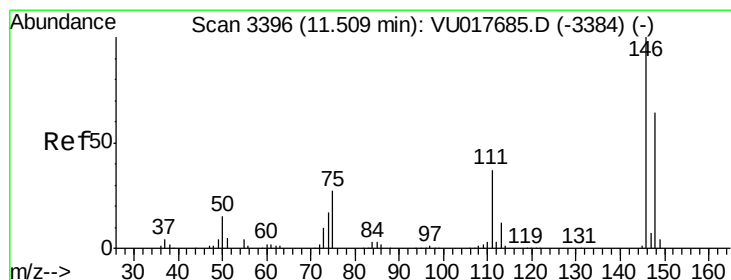
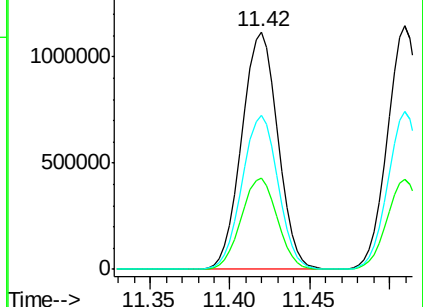
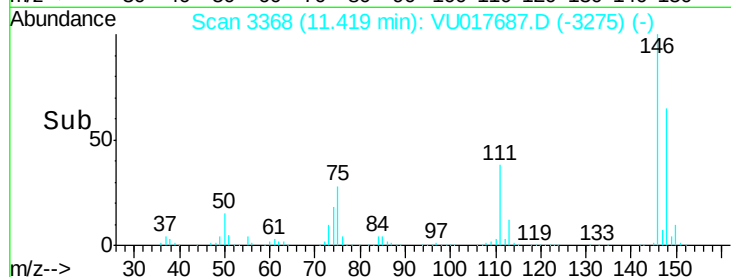
148 64.8 45.1 83.9



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 190.777 ug/L

RT: 11.51 min Scan# 3396

Delta R.T. -0.00 min

Lab File: VU017687.D

Acq: 24 Jun 2017 13:12

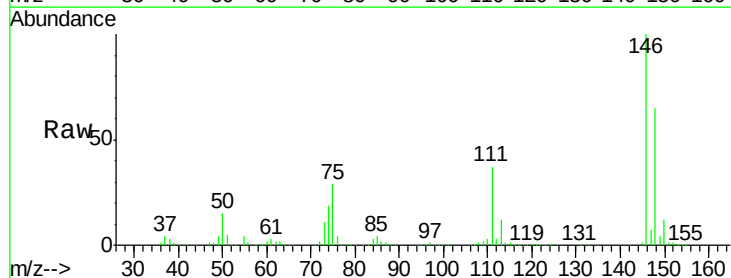
Tgt Ion:146 Resp: 1741009

Ion Ratio Lower Upper

146 100

111 36.8 26.4 49.0

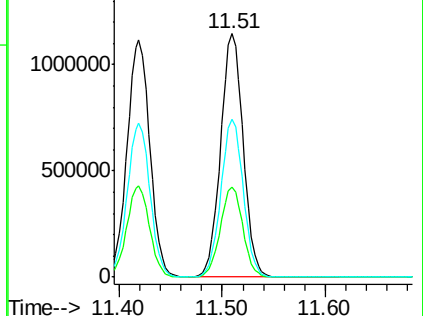
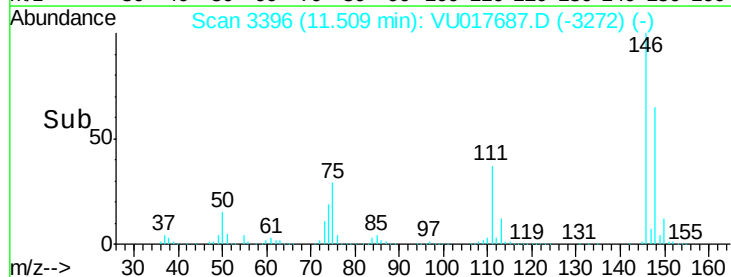
148 64.6 44.9 83.3

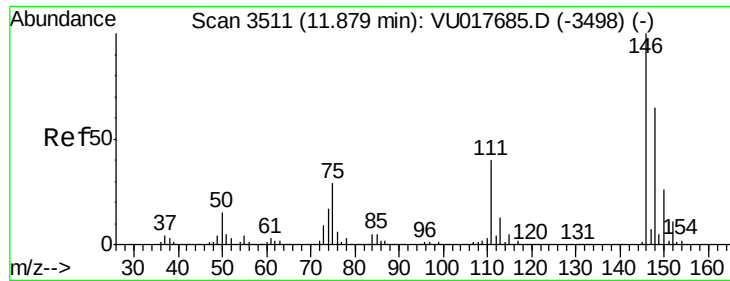


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 187.751 ug/L

RT: 11.88 min Scan# 3512

Delta R.T. 0.00 min

Lab File: VU017687.D

Acq: 24 Jun 2017 13:12

Instrument :

BNA_M

ClientSampled :

VSTD20018

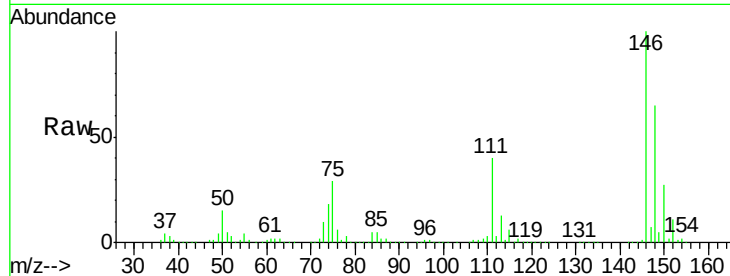
Tgt Ion:146 Resp: 1677829

Ion Ratio Lower Upper

146 100

111 39.8 32.0 48.0

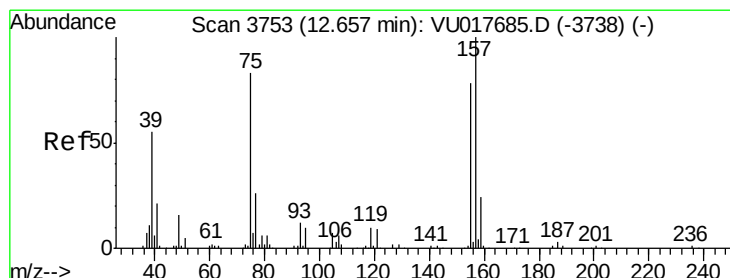
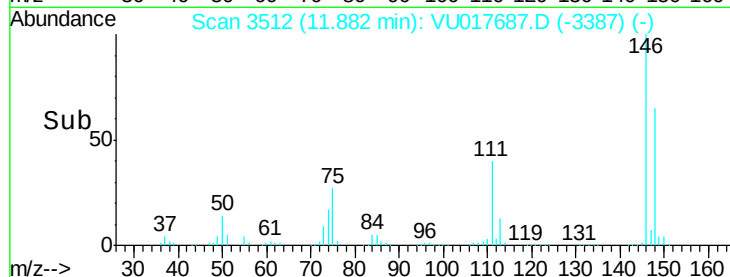
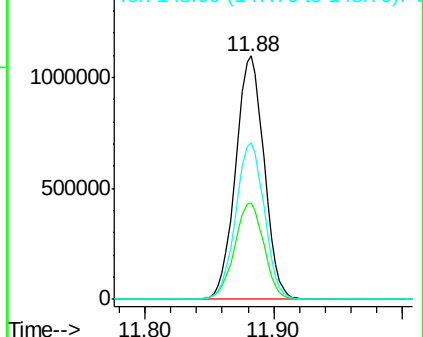
148 64.5 51.8 77.6



Abundance Ion 146.00 (145.70 to 146.70): 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: 239.805 ug/L

RT: 12.65 min Scan# 3752

Delta R.T. -0.00 min

Lab File: VU017687.D

Acq: 24 Jun 2017 13:12

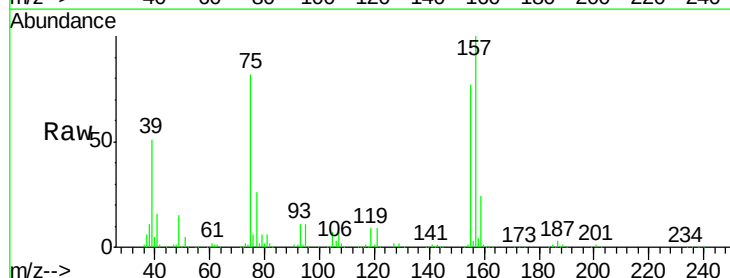
Tgt Ion: 75 Resp: 280957

Ion Ratio Lower Upper

75 100

155 94.2 75.8 113.6

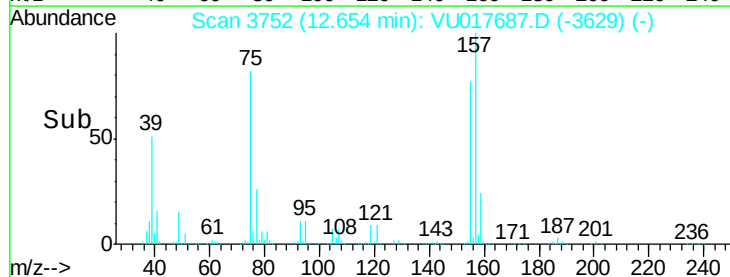
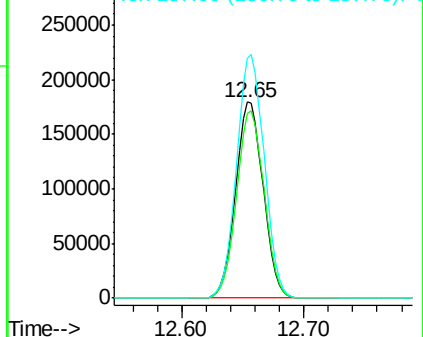
157 122.5 96.7 145.1

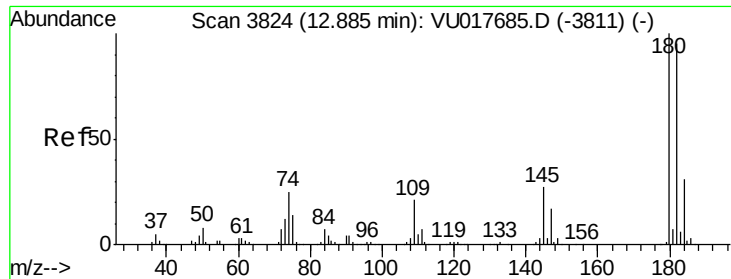


Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

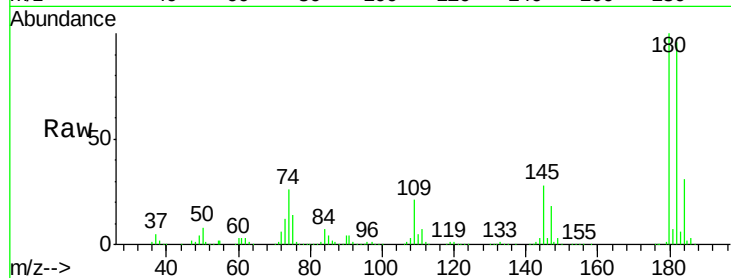




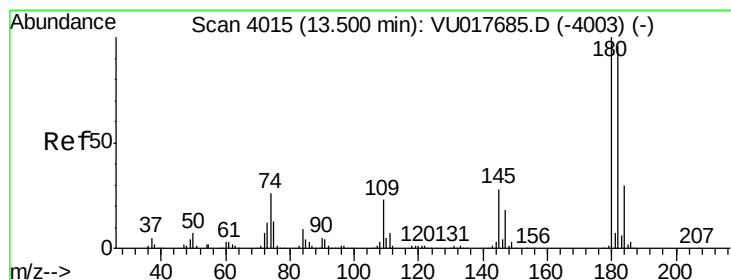
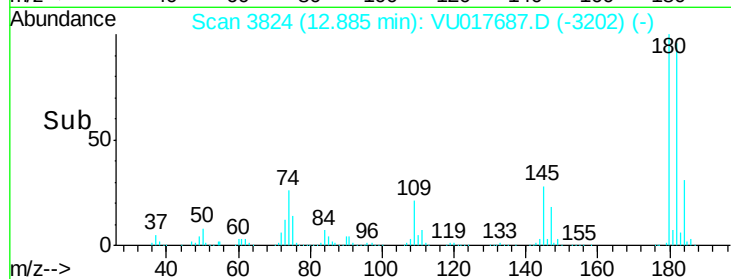
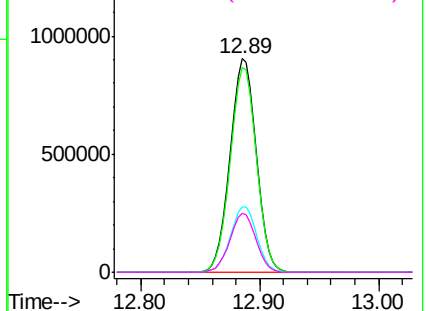
#67
 1,3,5-Trichlorobenzene
 Concen: 189.638 ug/L
 RT: 12.89 min Scan# 3824
 Delta R.T. -0.00 min
 Lab File: VU017687.D
 Acq: 24 Jun 2017 13:12

Instrument :
 BNA_M
 ClientSampleId :
 VSTD20018

Tgt Ion:180 Resp: 1378750
 Ion Ratio Lower Upper
 180 100
 182 95.7 76.4 114.6
 184 30.8 24.7 37.1
 145 27.4 22.0 33.0

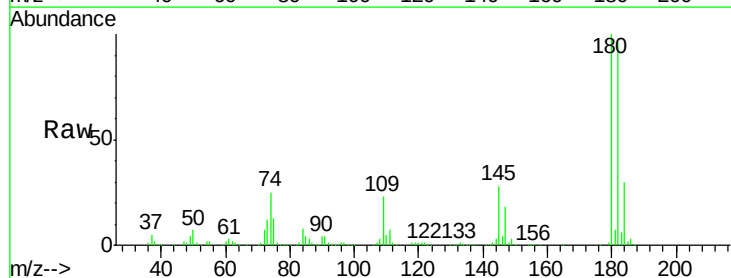


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

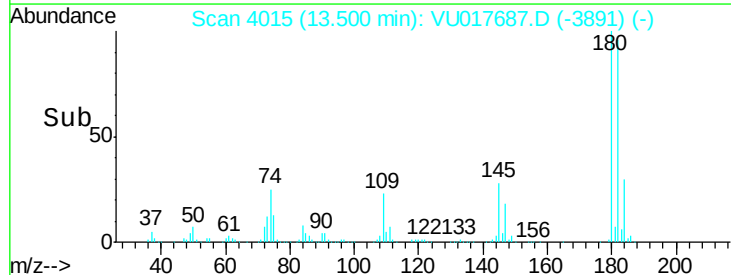
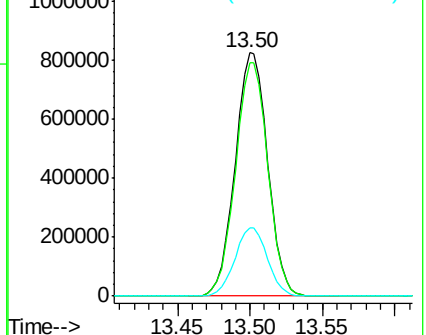


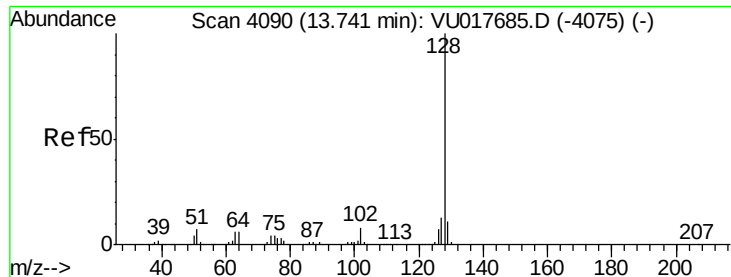
#68
 1,2,4-trichlorobenzene
 Concen: 191.515 ug/L
 RT: 13.50 min Scan# 4015
 Delta R.T. -0.00 min
 Lab File: VU017687.D
 Acq: 24 Jun 2017 13:12

Tgt Ion:180 Resp: 1279163
 Ion Ratio Lower Upper
 180 100
 182 95.6 76.6 114.8
 145 28.1 22.8 34.2



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





#69

Naphthalene

Concen: 195.638 ug/L

RT: 13.74 min Scan# 4090

Delta R.T. -0.00 min

Lab File: VU017687.D

Acq: 24 Jun 2017 13:12

Instrument :

BNA_M

ClientSampleId :

VSTD20018

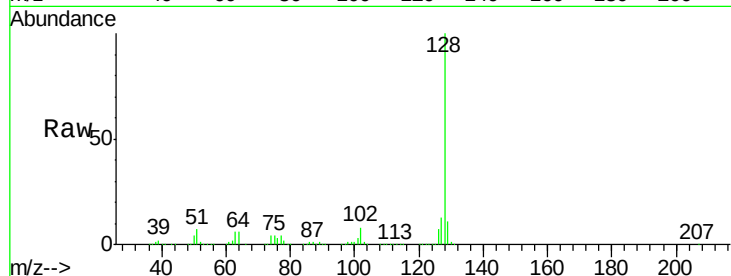
Tgt Ion:128 Resp: 3841930

Ion Ratio Lower Upper

128 100

127 12.9 10.3 15.5

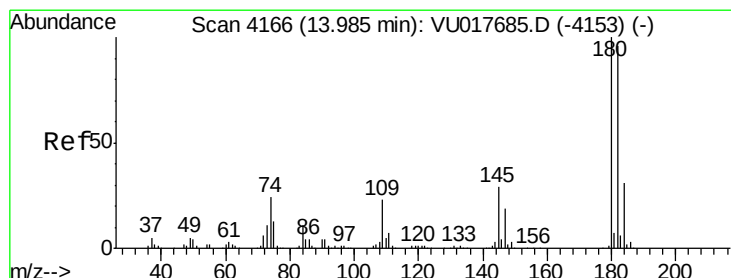
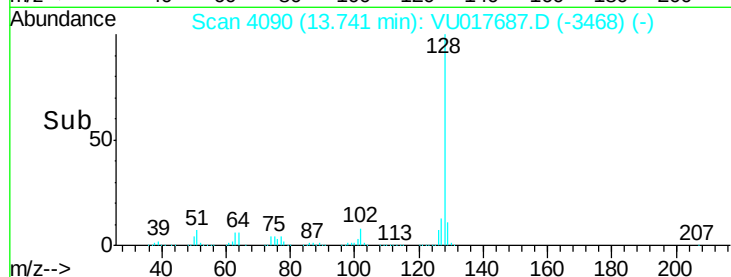
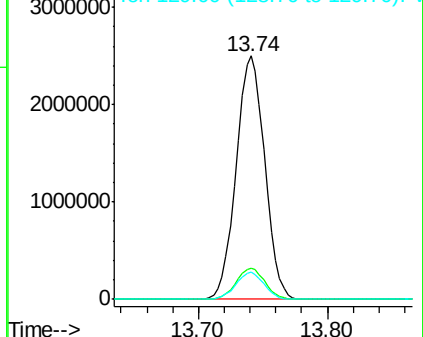
129 11.0 8.8 13.2



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 185.954 ug/L

RT: 13.99 min Scan# 4166

Delta R.T. -0.00 min

Lab File: VU017687.D

Acq: 24 Jun 2017 13:12

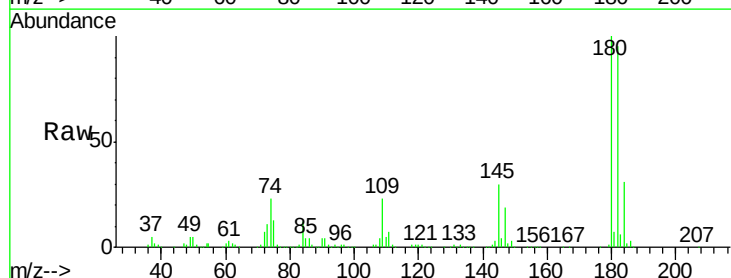
Tgt Ion:180 Resp: 1239321

Ion Ratio Lower Upper

180 100

182 95.6 77.0 115.6

145 29.8 23.5 35.3



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

