

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081718\
 Data File : VN050730.D
 Acq On : 17 Aug 2018 15:13
 Operator : MD\SY
 Sample : PB112140ZHE#04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Aug 17 23:14:19 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N081418W.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 14 08:07:08 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	629844	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1061318	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	908422	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	320448	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	431888	54.40	ug/l	0.00
Spiked Amount			Recovery	=	108.80%	
35) Dibromofluoromethane	7.59	113	404015	47.68	ug/l	0.00
Spiked Amount			Recovery	=	95.36%	
50) Toluene-d8	10.09	98	1442867	45.25	ug/l	0.00
Spiked Amount			Recovery	=	90.50%	
62) 4-Bromofluorobenzene	12.40	95	400331	38.00	ug/l	0.00
Spiked Amount			Recovery	=	76.00%	

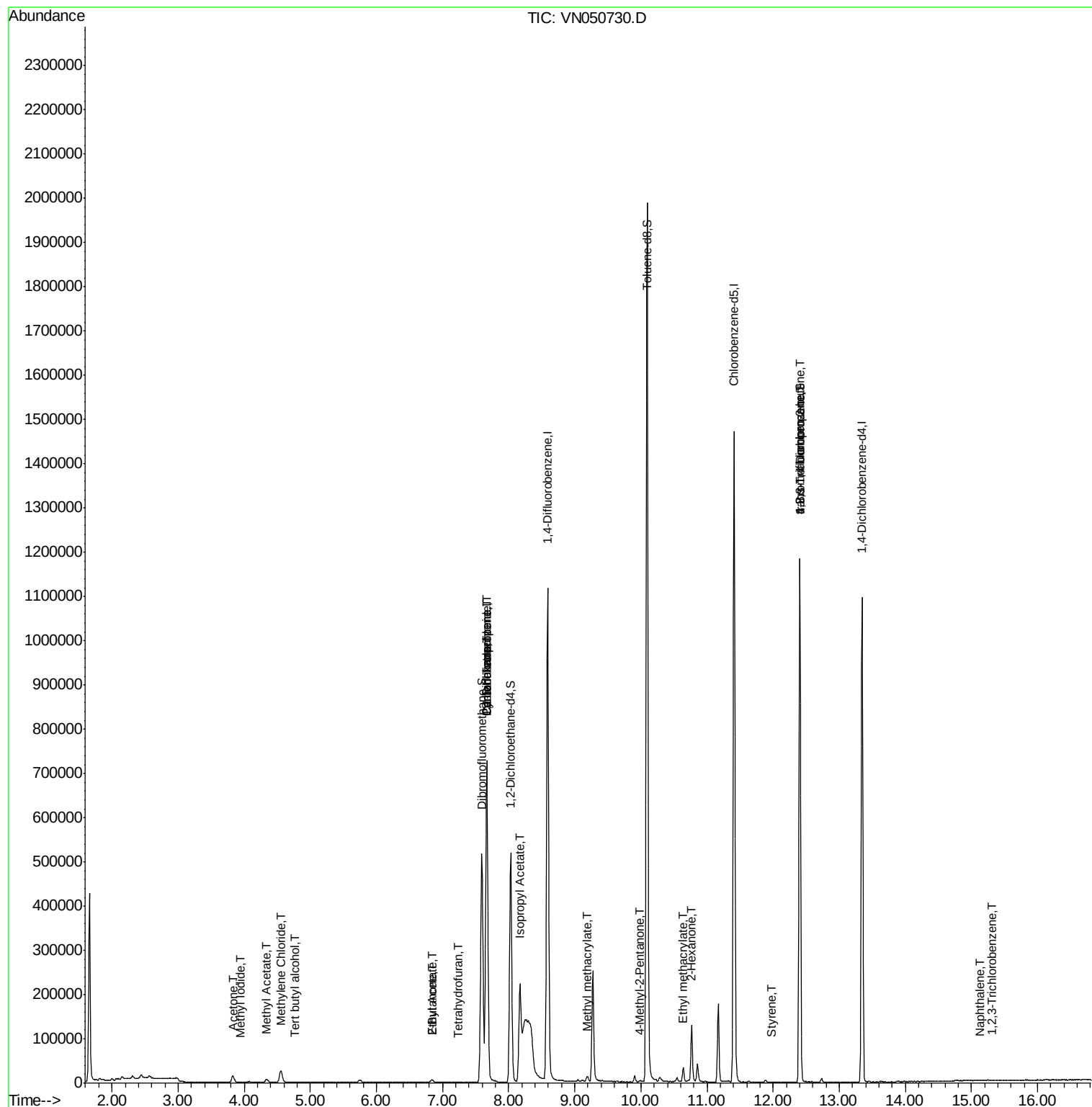
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	2775	Below Cal		100
5) Bromomethane	2.57	94	3281	Below Cal		88
6) Chloroethane	2.74	64	101	Below Cal	#	43
10) Methyl Iodide	3.95	142	559	7.04	ug/l #	75
11) Tert butyl alcohol	4.78	59	179	0.41	ug/l #	72
16) Acetone	3.82	43	26185	11.83	ug/l	92
18) Methyl Acetate	4.33	43	16128	1.94	ug/l	93
20) Methylene Chloride	4.55	84	21134	1.57	ug/l #	91
25) 2-Butanone	6.86	43	4391	1.35	ug/l #	89
29) Tetrahydrofuran	7.23	42	877	0.52	ug/l #	35
31) Cyclohexane	7.67	56	11749	0.63	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	43244	3.66	ug/l #	48
37) Ethyl Acetate	6.86	43	4391	0.66	ug/l #	67
38) Carbon Tetrachloride	7.67	117	54709	4.46	ug/l #	17
43) Isopropyl Acetate	8.17	43	283556	23.30	ug/l	95
48) Methyl methacrylate	9.18	41	7911	1.29	ug/l #	18
51) 4-Methyl-2-Pentanone	9.99	43	2509	0.30	ug/l	98
56) Ethyl methacrylate	10.64	69	688	1.97	ug/l #	1
59) 2-Hexanone	10.77	43	18913	3.56	ug/l #	59
70) Styrene	11.97	104	359	0.96	ug/l #	41
75) 1,1,2,2-Tetrachloroethane	12.39	83	130	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	189755	36.37	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	189755	131.65	ug/l #	13
95) Naphthalene	15.14	128	456	3.90	ug/l #	69
96) 1,2,3-Trichlorobenzene	15.32	180	63	1.95	ug/l #	13

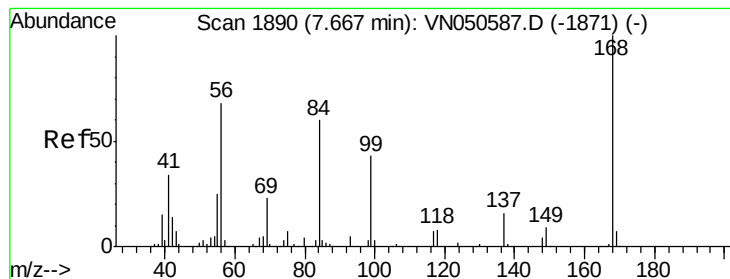
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Aug 14 08:07:08 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.00 min

Lab File: VN050730.D

Acq: 17 Aug 2018 15:13

Instrument :

MSVOA_N

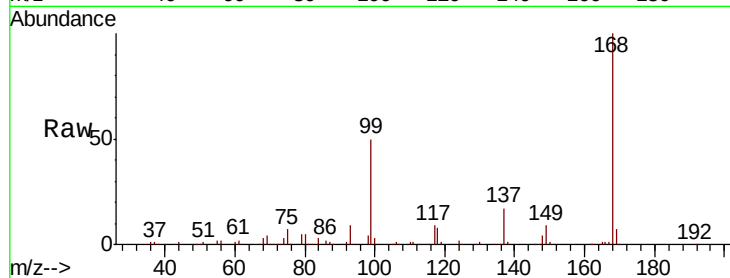
ClientSampleId :

Tot Ion:168 Resp: 629844

Ion Ratio Lower Upper

168 100

99 49.8 40.8 61.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

250000

200000

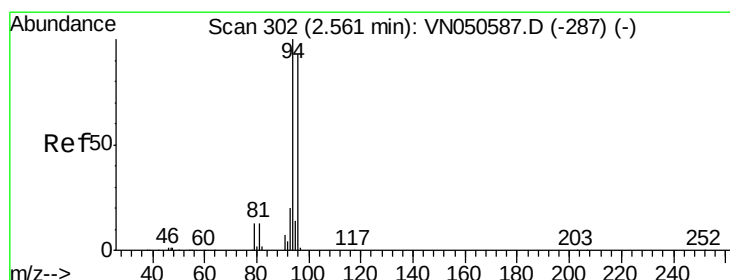
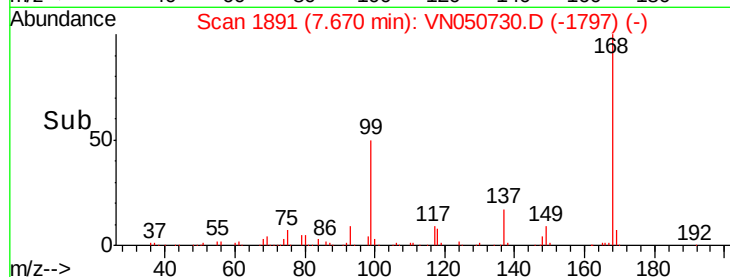
150000

100000

50000

0

Time--> 7.50 7.60 7.70 7.80



#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 305

Delta R.T. 0.01 min

Lab File: VN050730.D

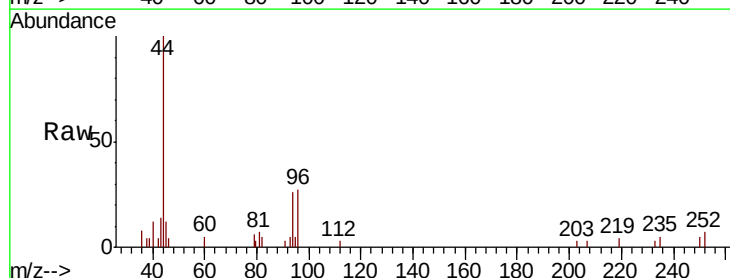
Acq: 17 Aug 2018 15:13

Tgt Ion: 94 Resp: 3281

Ion Ratio Lower Upper

94 100

96 103.9 74.0 111.0



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO

2.57

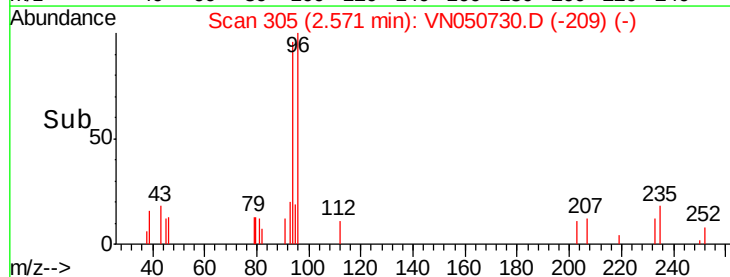
1500

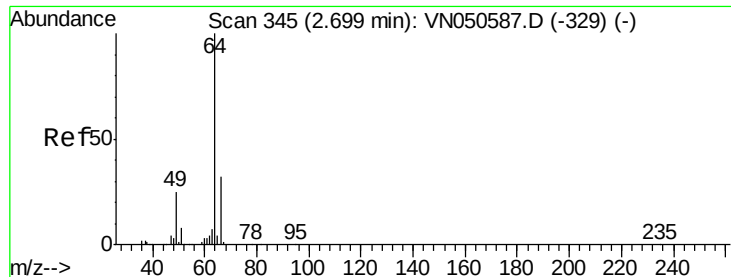
1000

500

0

Time--> 2.50 2.55 2.60





#6

Chloroethane

Concen: Below Cal

RT: 2.74 min Scan# 359

Delta R.T. 0.05 min

Lab File: VN050730.D

Acq: 17 Aug 2018 15:13

Instrument :

MSVOA_N

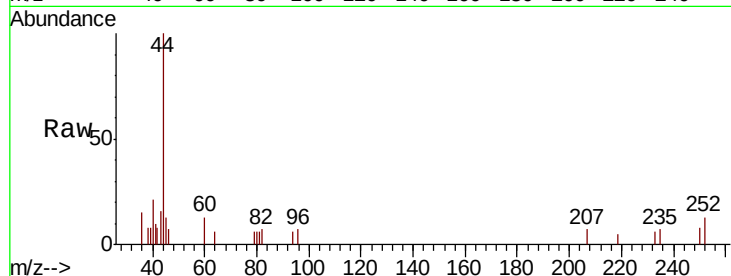
ClientSampleId :

Tot Ion: 64 Resp: 101

Ion Ratio Lower Upper

64 100

66 0.0 25.7 38.5#

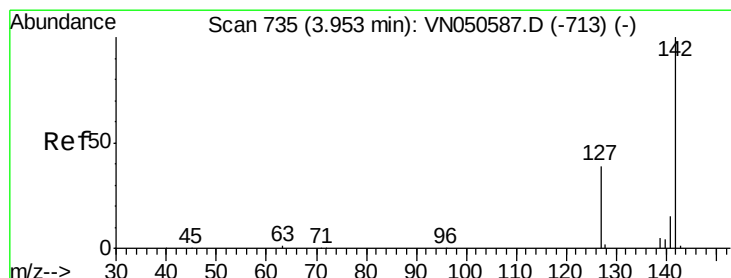
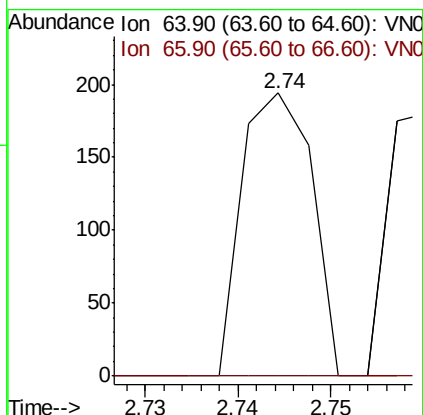
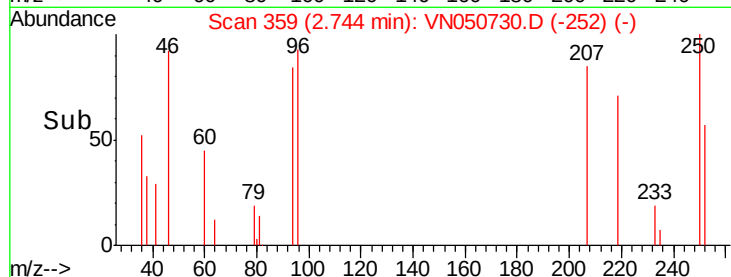


Abundance Ion 63.90 (63.60 to 64.60): VN050730.D (-252) (-)

Ion 65.90 (65.60 to 66.60): VN050730.D (-252) (-)

2.74

2.75



#10

Methyl Iodide

Concen: 7.04 ug/l

RT: 3.95 min Scan# 735

Delta R.T. 0.00 min

Lab File: VN050730.D

Acq: 17 Aug 2018 15:13

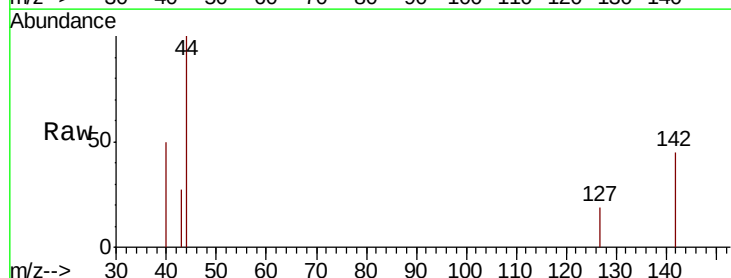
Tgt Ion: 142 Resp: 559

Ion Ratio Lower Upper

142 100

127 54.4 32.6 49.0#

141 0.0 11.5 17.3#



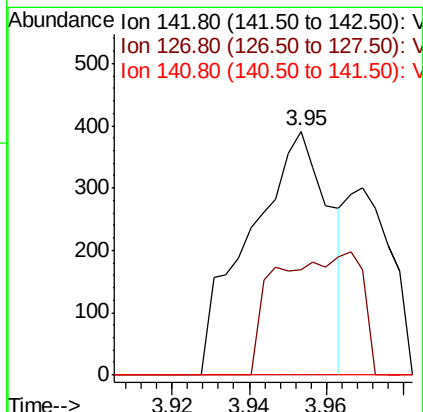
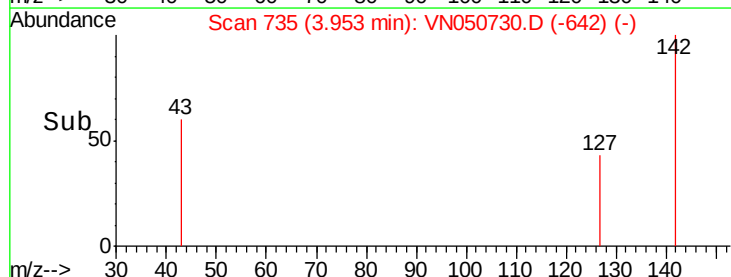
Abundance Ion 141.80 (141.50 to 142.50): VN050730.D (-642) (-)

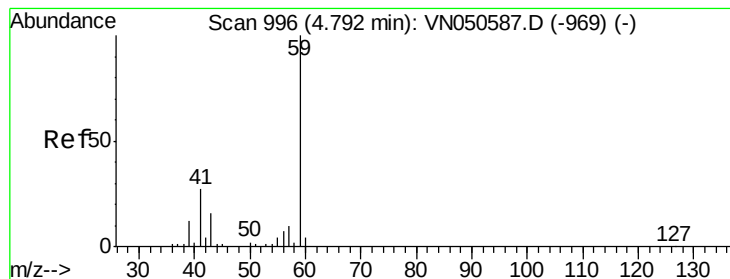
Ion 126.80 (126.50 to 127.50): VN050730.D (-642) (-)

Ion 140.80 (140.50 to 141.50): VN050730.D (-642) (-)

3.95

3.96



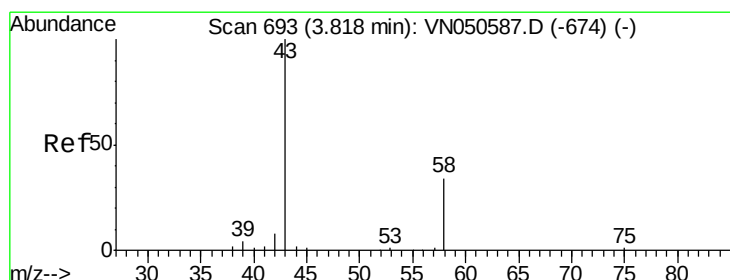
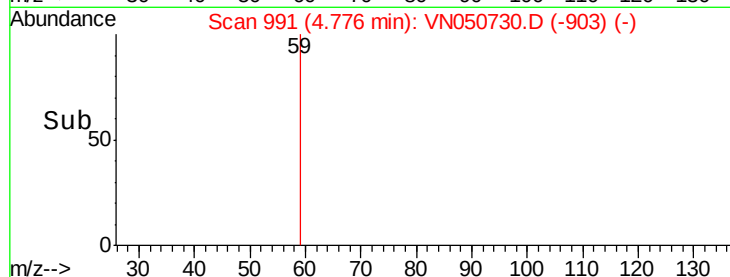
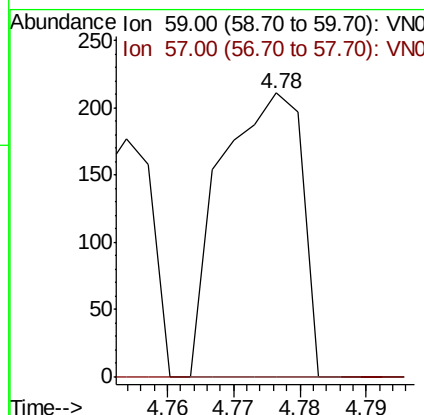
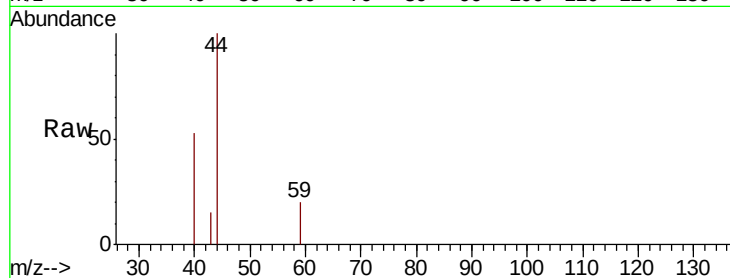


#11

Tert butyl alcohol
 Concen: 0.41 ug/l
 RT: 4.78 min Scan# 991
 Delta R.T. -0.02 min
 Lab File: VN050730.D
 Acq: 17 Aug 2018 15:13

Instrument :
 MSVOA_N
 ClientSampleId :

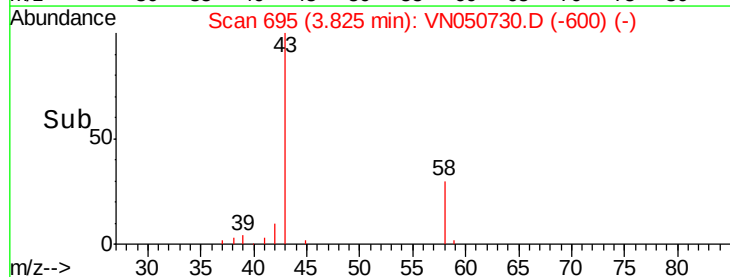
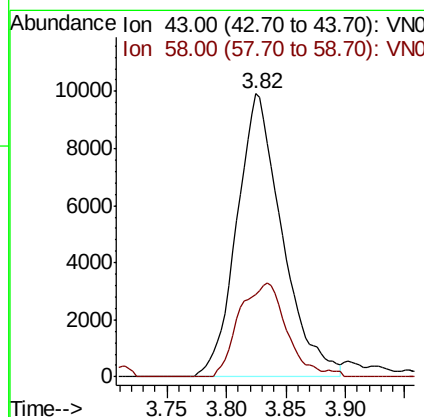
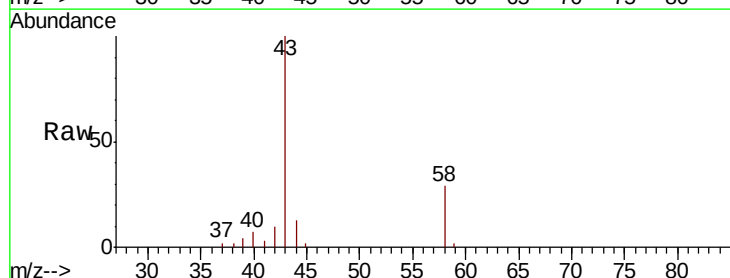
Tot Ion: 59 Resp: 179
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.4 12.6#

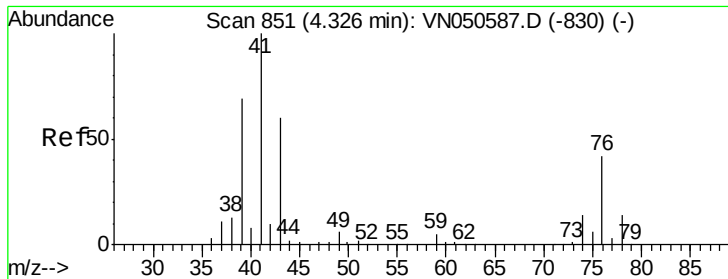


#16

Acetone
 Concen: 11.83 ug/l
 RT: 3.82 min Scan# 695
 Delta R.T. 0.01 min
 Lab File: VN050730.D
 Acq: 17 Aug 2018 15:13

Tgt Ion: 43 Resp: 26185
 Ion Ratio Lower Upper
 43 100
 58 29.2 27.1 40.7

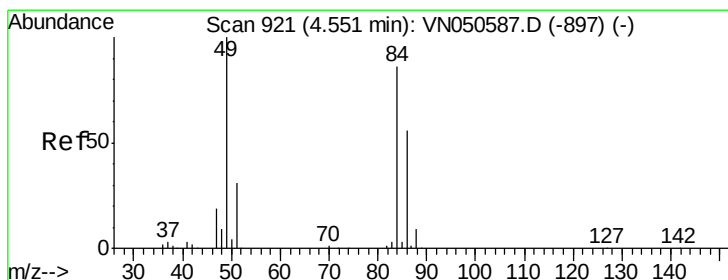
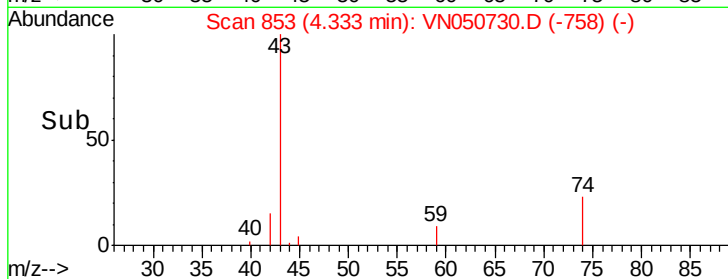
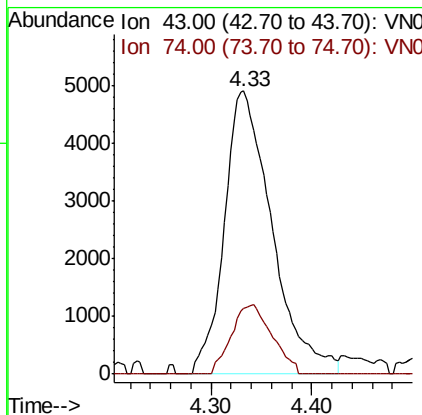
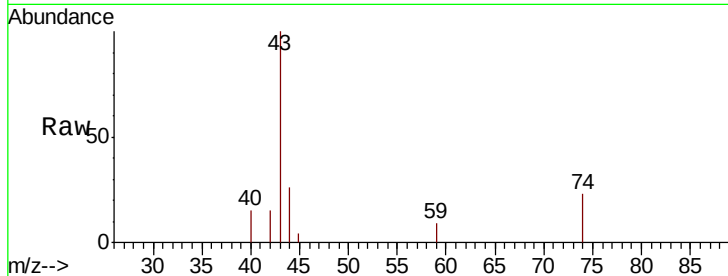




#18
Methvl Acetate
Concen: 1.94 ug/l
RT: 4.33 min Scan# 853
Delta R.T. 0.01 min
Lab File: VN050730.D
Acq: 17 Aug 2018 15:13

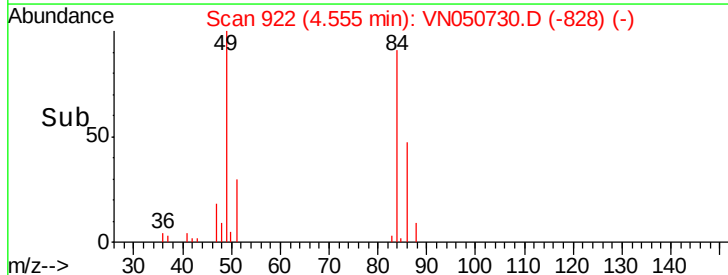
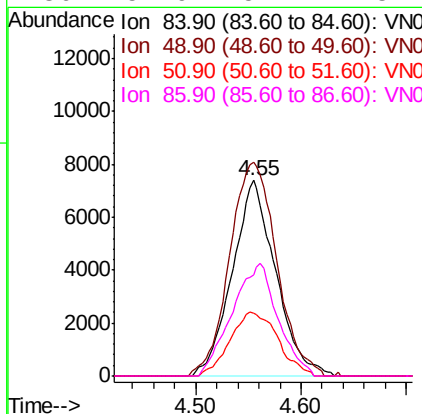
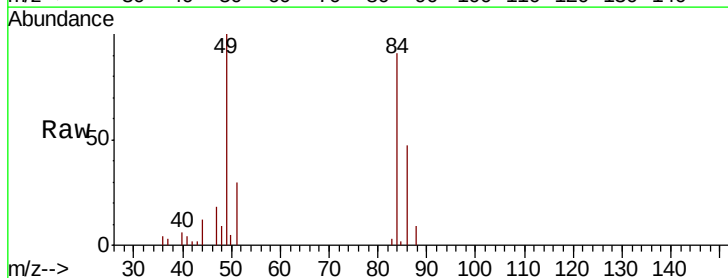
Instrument :
MSVOA_N
ClientSampled :

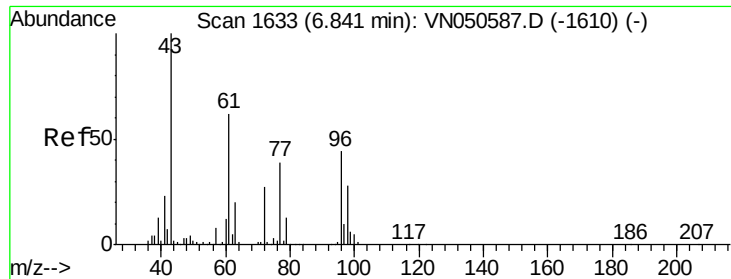
Tot Ion: 43 Resp: 16128
Ion Ratio Lower Upper
43 100
74 20.9 19.7 29.5



#20
Methylene Chloride
Concen: 1.57 ug/l
RT: 4.55 min Scan# 922
Delta R.T. 0.00 min
Lab File: VN050730.D
Acq: 17 Aug 2018 15:13

Tgt Ion: 84 Resp: 21134
Ion Ratio Lower Upper
84 100
49 109.4 92.6 138.8
51 32.4 28.6 43.0
86 51.9 52.2 78.2#

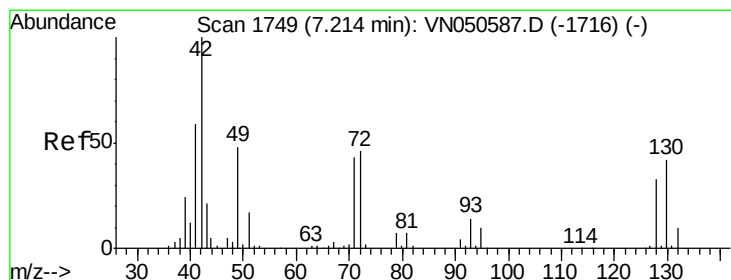
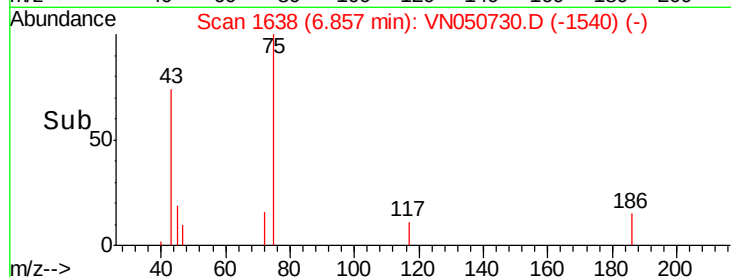
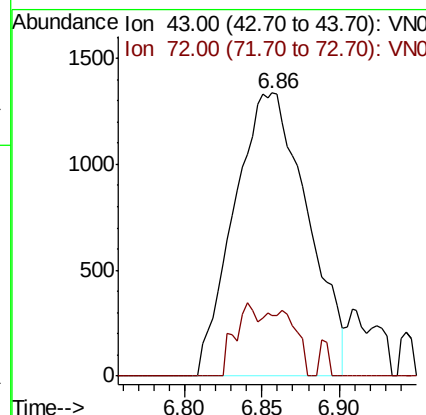
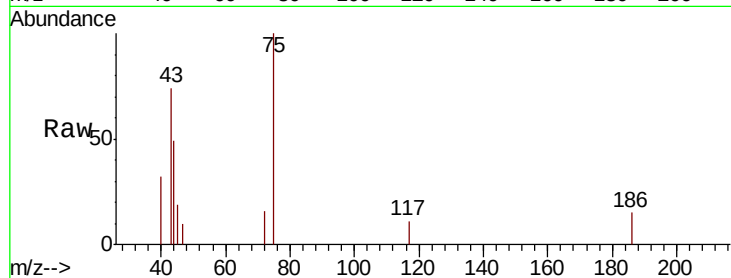




#25
2-Butanone
Concen: 1.35 ug/l
RT: 6.86 min Scan# 1638
Delta R.T. 0.02 min
Lab File: VN050730.D
Acq: 17 Aug 2018 15:13

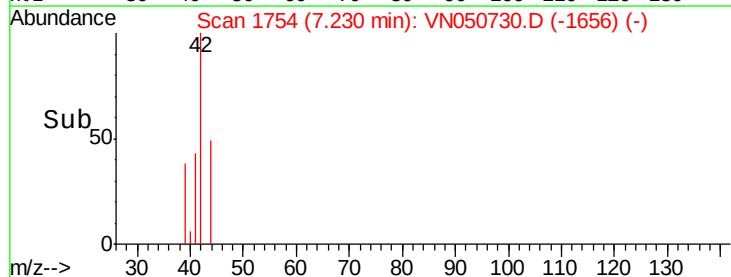
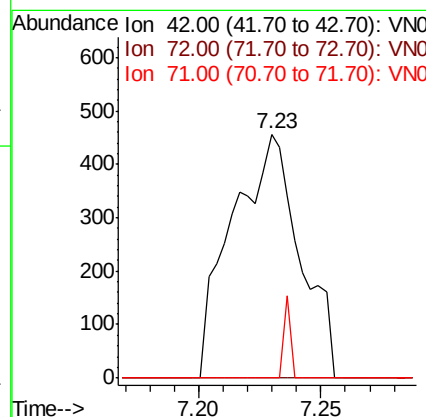
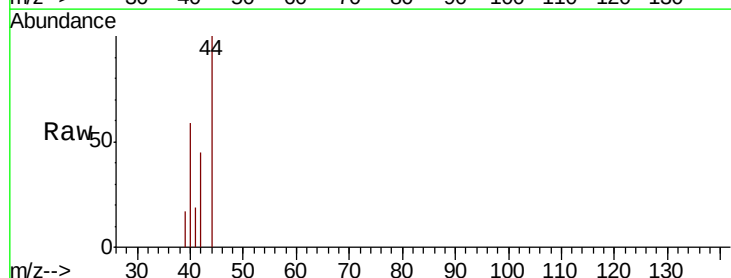
Instrument :
MSVOA_N
ClientSampled :

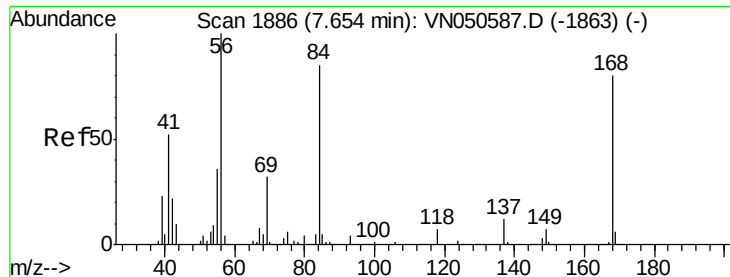
Tot Ion: 43 Resp: 4391
Ion Ratio Lower Upper
43 100
72 21.4 21.8 32.6#



#29
Tetrahydrofuran
Concen: 0.52 ug/l
RT: 7.23 min Scan# 1754
Delta R.T. 0.02 min
Lab File: VN050730.D
Acq: 17 Aug 2018 15:13

Tgt Ion: 42 Resp: 877
Ion Ratio Lower Upper
42 100
72 0.0 35.8 53.6#
71 3.3 33.4 50.0#

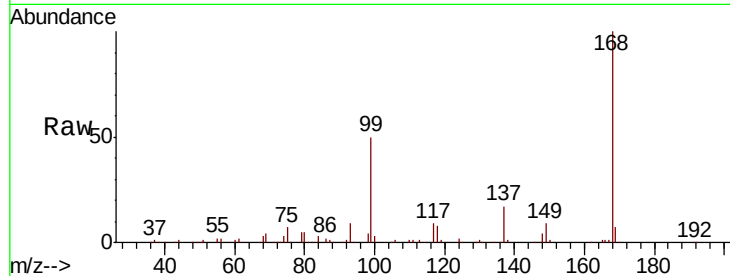




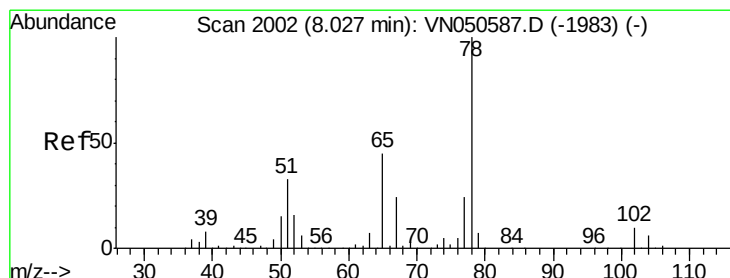
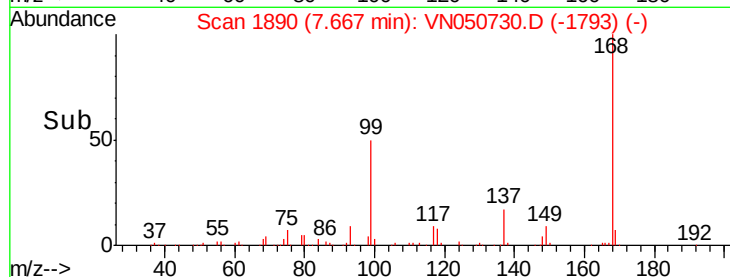
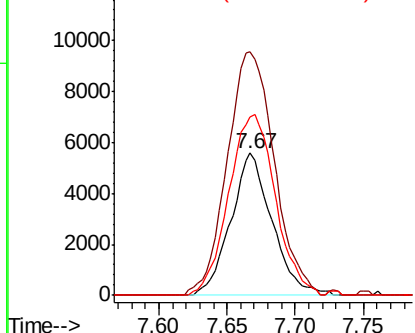
#31
Cyclohexane
Concen: 0.63 ug/l
RT: 7.67 min Scan# 1890
Delta R.T. 0.01 min
Lab File: VN050730.D
Acq: 17 Aug 2018 15:13

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 11749
Ion Ratio Lower Upper
56 100
69 168.0 25.8 38.6#
84 125.8 67.8 101.6#

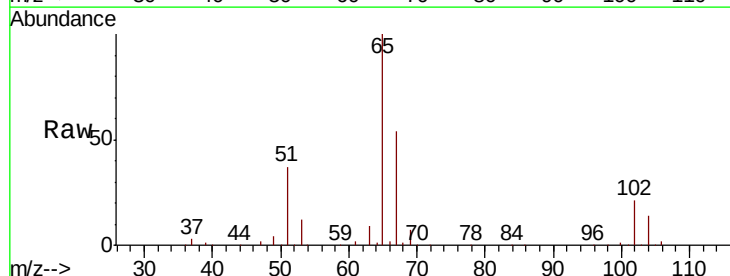


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

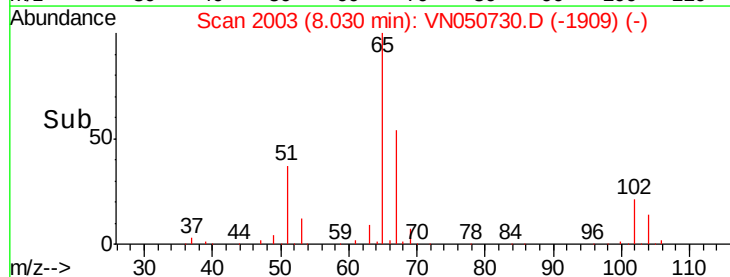
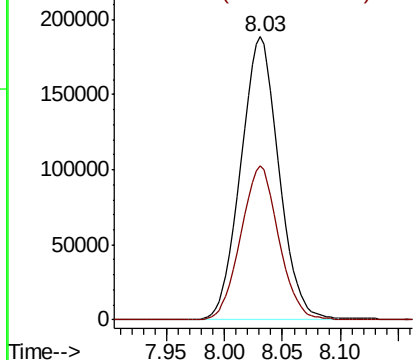


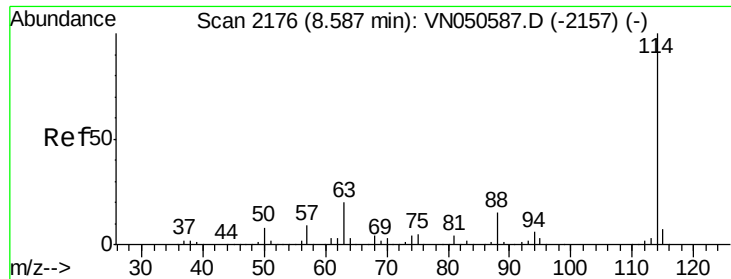
#33
1,2-Dichloroethane-d4
Concen: 54.40 ug/l
RT: 8.03 min Scan# 2003
Delta R.T. 0.00 min
Lab File: VN050730.D
Acq: 17 Aug 2018 15:13

Tgt Ion: 65 Resp: 431888
Ion Ratio Lower Upper
65 100
67 54.3 0.0 109.8



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

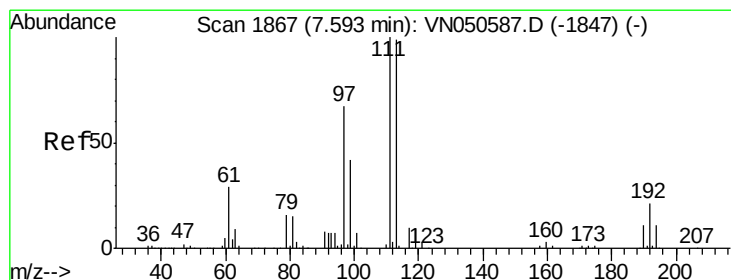
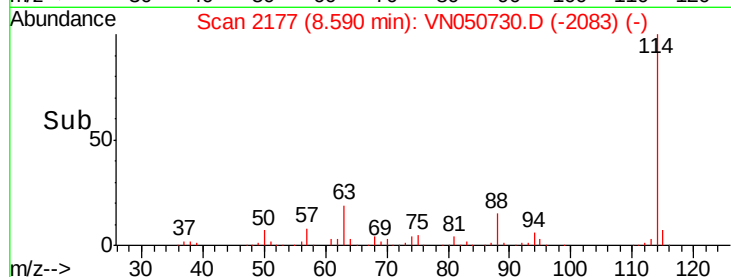
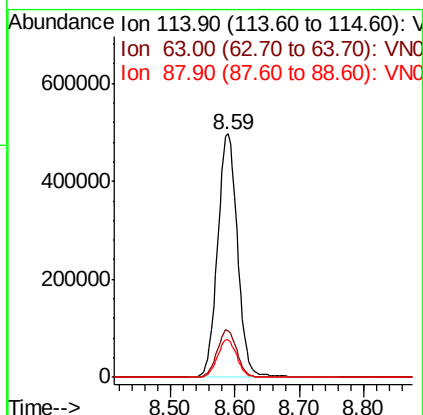
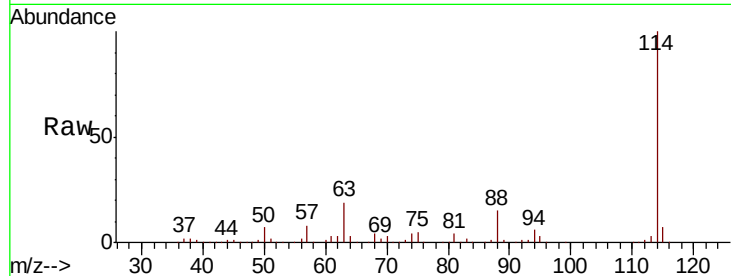




#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VN050730.D
 Acq: 17 Aug 2018 15:13

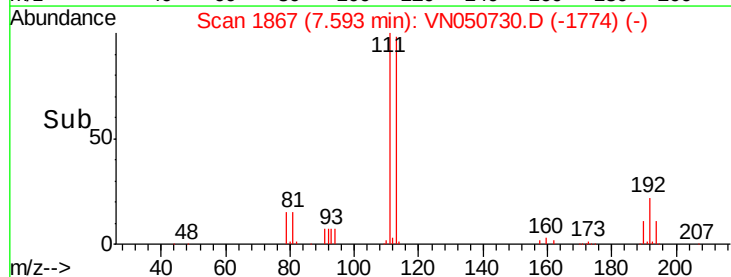
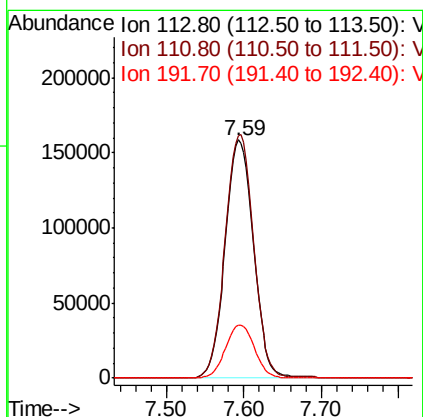
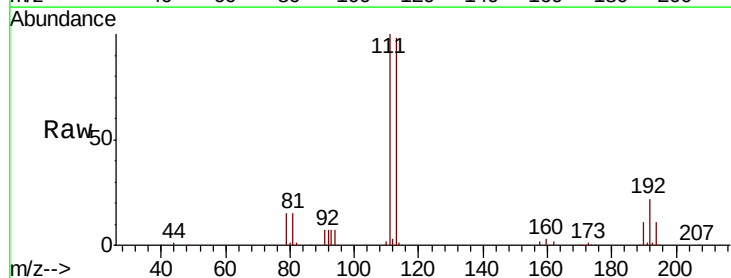
Instrument :
 MSVOA_N
 ClientSampleId :

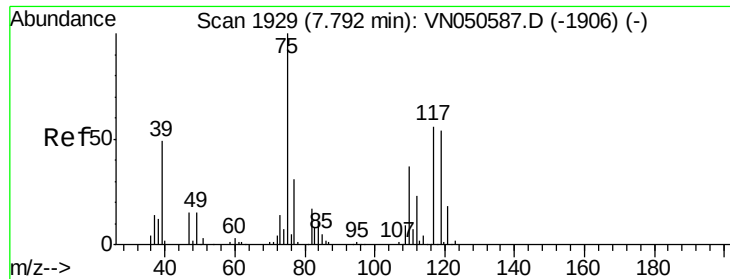
Tot Ion:114 Resp: 1061318
 Ion Ratio Lower Upper
 114 100
 63 19.3 0.0 40.0
 88 15.4 0.0 30.8



#35
 Dibromofluoromethane
 Concen: 47.68 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VN050730.D
 Acq: 17 Aug 2018 15:13

Tgt Ion:113 Resp: 404015
 Ion Ratio Lower Upper
 113 100
 111 102.0 81.0 121.6
 192 22.7 17.6 26.4

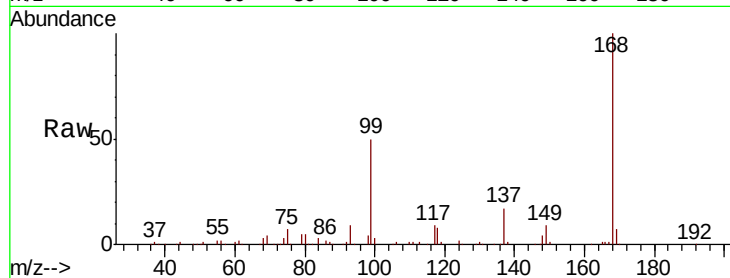




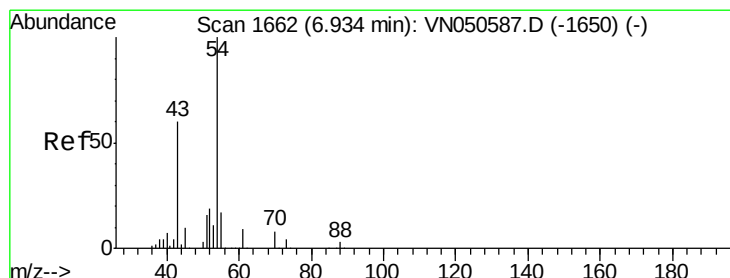
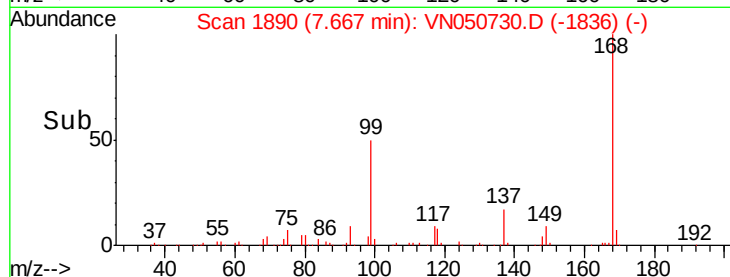
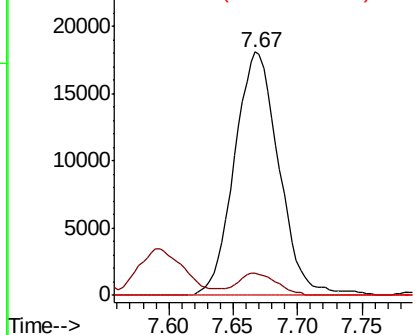
#36
 1,1-Dichloropropene
 Concen: 3.66 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.13 min
 Lab File: VN050730.D
 Acq: 17 Aug 2018 15:13

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion: 75 Resp: 43244
 Ion Ratio Lower Upper
 75 100
 110 8.2 18.3 54.9#
 77 0.0 25.0 37.4#

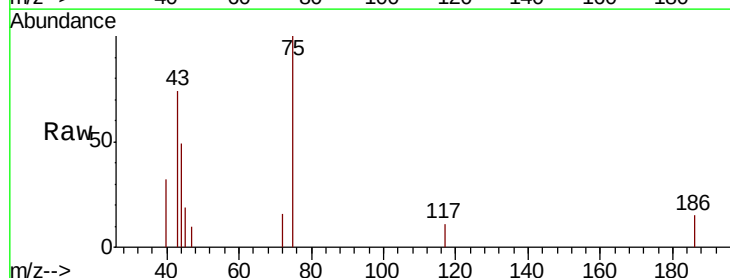


Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 109.90 (109.60 to 110.60): VN0
 Ion 76.90 (76.60 to 77.60): VN0

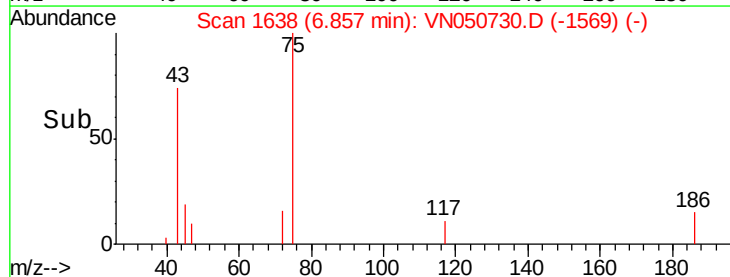
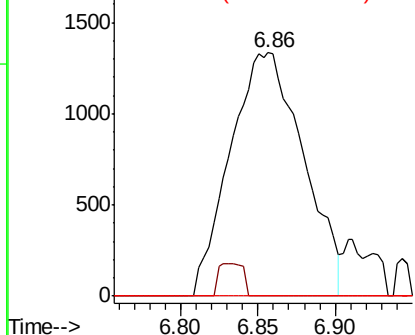


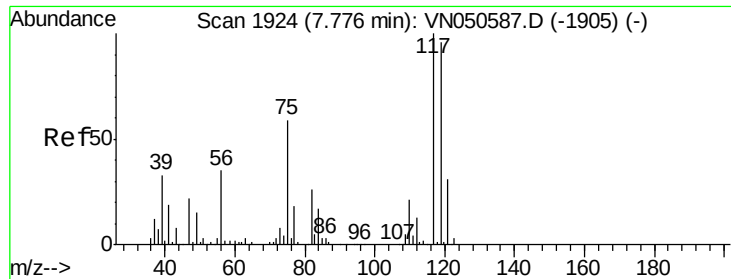
#37
 Ethyl Acetate
 Concen: 0.66 ug/l
 RT: 6.86 min Scan# 1638
 Delta R.T. -0.08 min
 Lab File: VN050730.D
 Acq: 17 Aug 2018 15:13

Tgt Ion: 43 Resp: 4391
 Ion Ratio Lower Upper
 43 100
 61 0.0 12.0 18.0#
 70 0.0 8.5 12.7#



Abundance Ion 43.00 (42.70 to 43.70): VN0
 Ion 60.90 (60.60 to 61.60): VN0
 Ion 70.00 (69.70 to 70.70): VN0

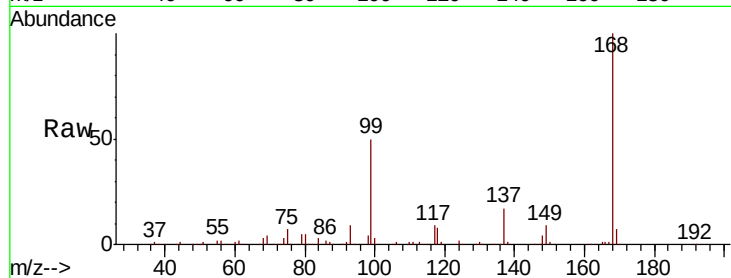




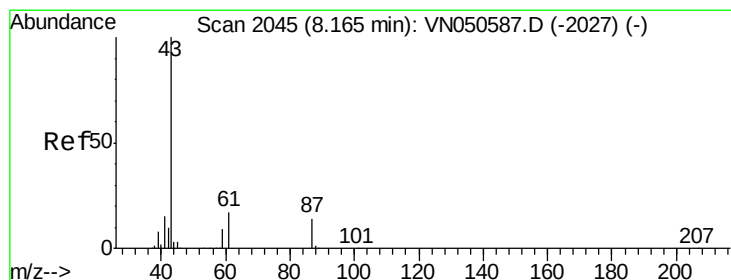
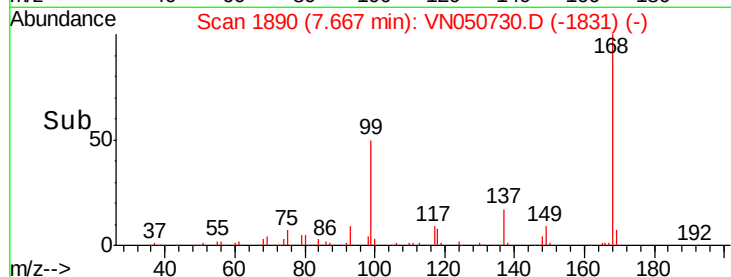
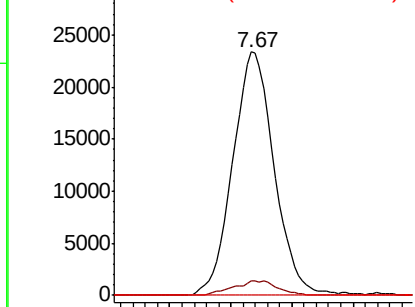
#38
Carbon Tetrachloride
Concen: 4.46 ug/l
RT: 7.67 min Scan# 1890
Delta R.T. -0.11 min
Lab File: VN050730.D
Acq: 17 Aug 2018 15:13

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 54709
Ion Ratio Lower Upper
117 100
119 5.9 76.6 115.0#
121 0.0 25.0 37.6#

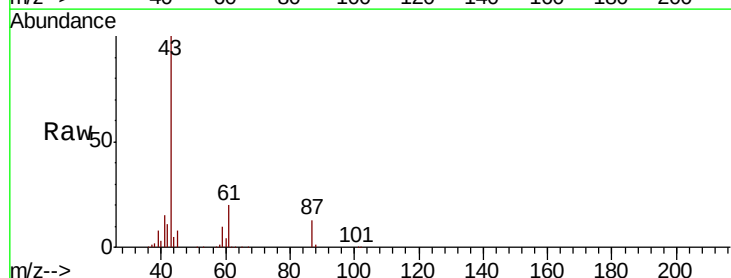


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

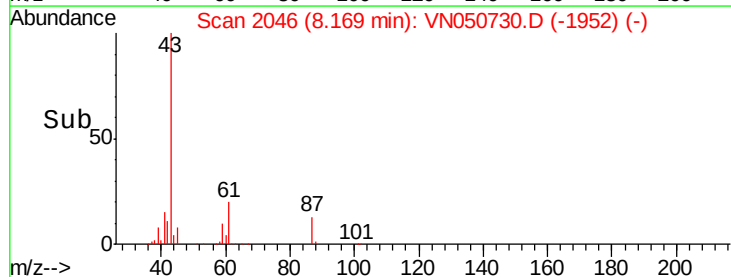
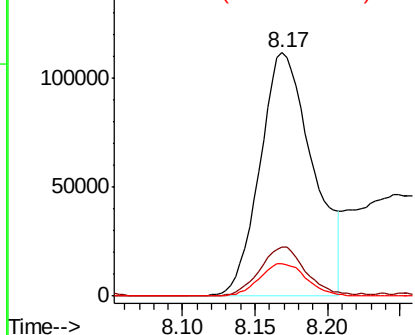


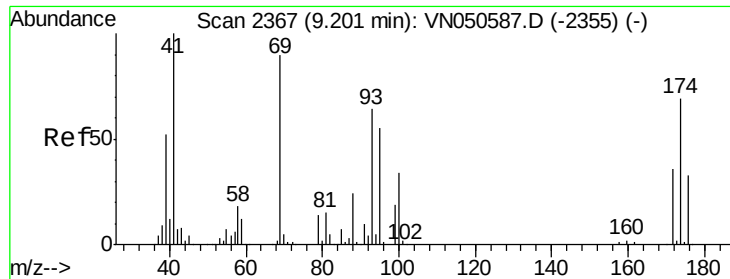
#43
Isopropyl Acetate
Concen: 23.30 ug/l
RT: 8.17 min Scan# 2046
Delta R.T. 0.00 min
Lab File: VN050730.D
Acq: 17 Aug 2018 15:13

Tgt Ion: 43 Resp: 283556
Ion Ratio Lower Upper
43 100
61 17.9 16.2 24.2
87 11.8 10.9 16.3



Abundance Ion 43.00 (42.70 to 43.70): V
Ion 61.00 (60.70 to 61.70): V
Ion 87.00 (86.70 to 87.70): V

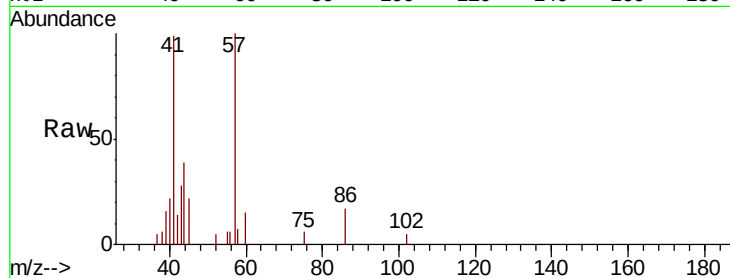




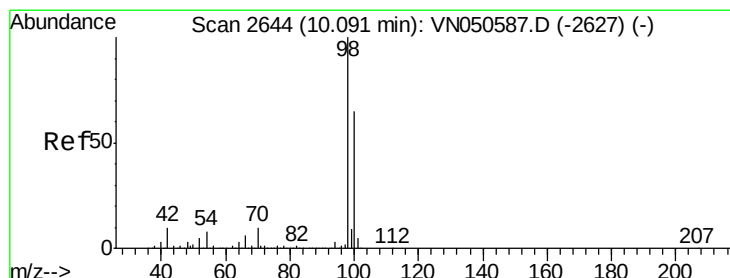
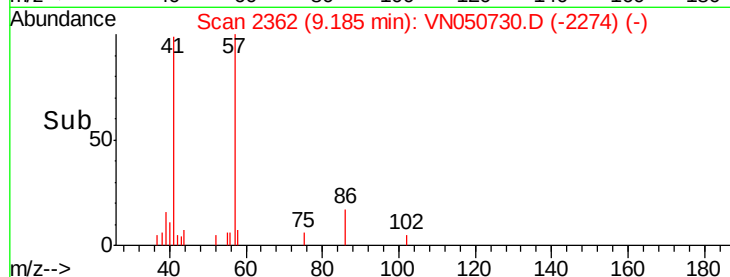
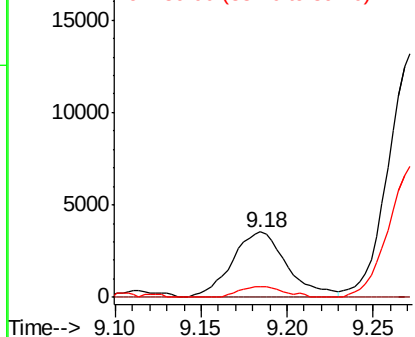
#48
Methvl methacrylate
Concen: 1.29 ug/l
RT: 9.18 min Scan# 2362
Delta R.T. -0.02 min
Lab File: VN050730.D
Acq: 17 Aug 2018 15:13

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 41 Resp: 7911
Ion Ratio Lower Upper
41 100
69 0.0 73.4 110.0#
39 13.3 43.0 64.6#

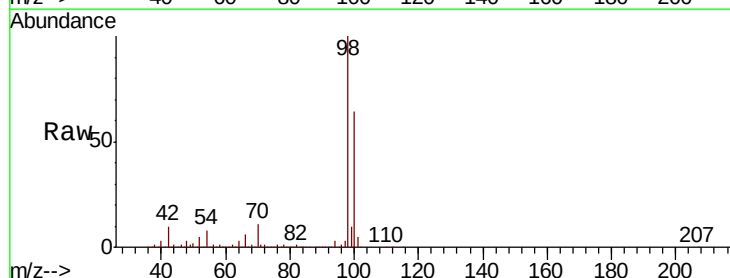


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

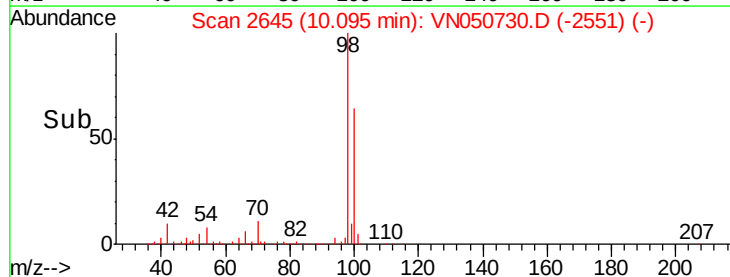
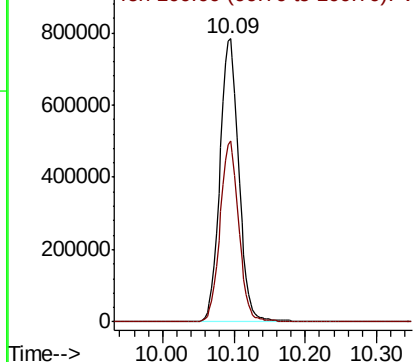


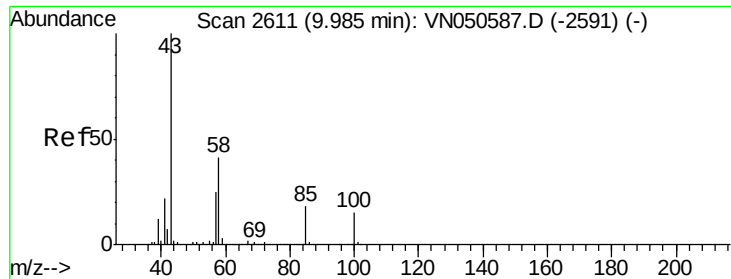
#50
Toluene-d8
Concen: 45.25 ug/l
RT: 10.09 min Scan# 2645
Delta R.T. 0.00 min
Lab File: VN050730.D
Acq: 17 Aug 2018 15:13

Tgt Ion: 98 Resp: 1442867
Ion Ratio Lower Upper
98 100
100 63.2 51.8 77.8



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 0.30 ug/l

RT: 9.99 min Scan# 2612

Delta R.T. 0.00 min

Lab File: VN050730.D

Acq: 17 Aug 2018 15:13

Instrument :

MSVOA_N

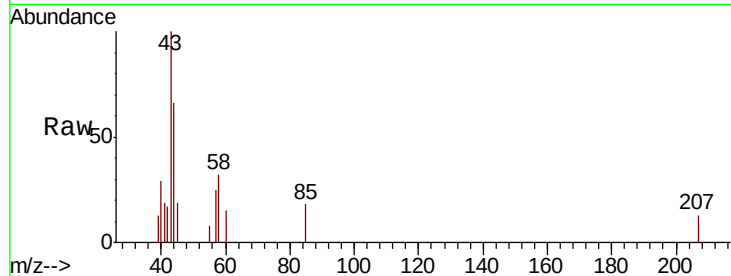
ClientSampled :

Tot Ion: 43 Resp: 2509

Ion Ratio Lower Upper

43 100

58 41.6 32.5 48.7



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

9.99

2000

1500

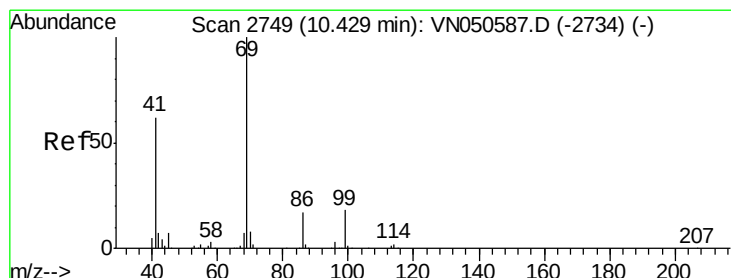
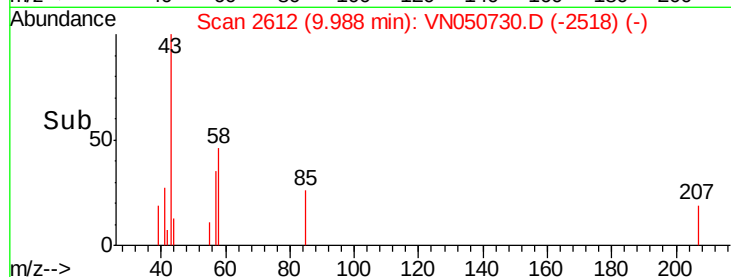
1000

500

0

Time-->

9.95 10.00



#56

Ethyl methacrylate

Concen: 1.97 ug/l

RT: 10.64 min Scan# 2816

Delta R.T. 0.22 min

Lab File: VN050730.D

Acq: 17 Aug 2018 15:13

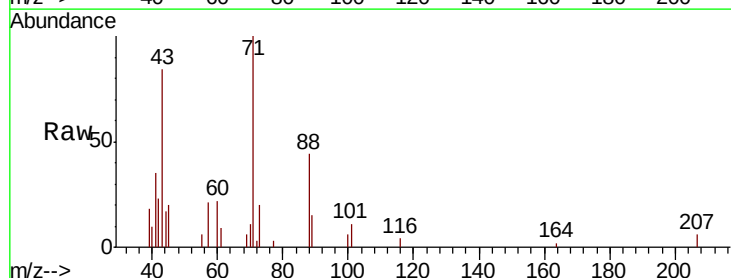
Tgt Ion: 69 Resp: 688

Ion Ratio Lower Upper

69 100

41 651.7 49.7 74.5#

39 319.0 24.2 36.2#



Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

3000

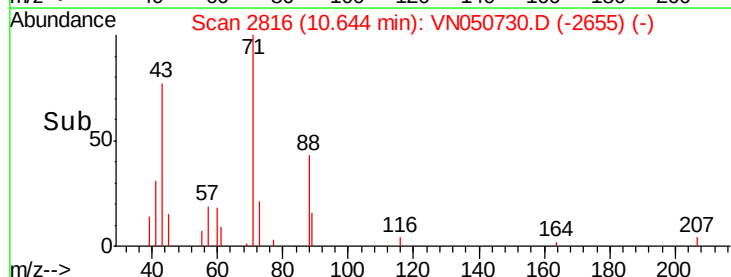
2000

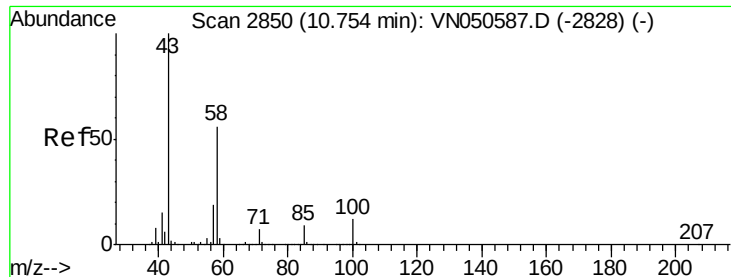
1000

0

Time-->

10.60 10.65





#59

2-Hexanone

Concen: 3.56 ug/l

RT: 10.77 min Scan# 2854

Delta R.T. 0.01 min

Lab File: VN050730.D

Acq: 17 Aug 2018 15:13

Instrument :

MSVOA_N

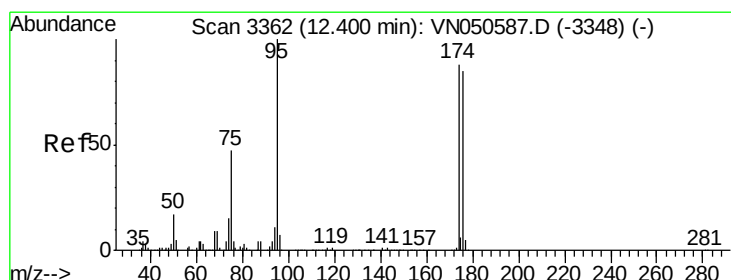
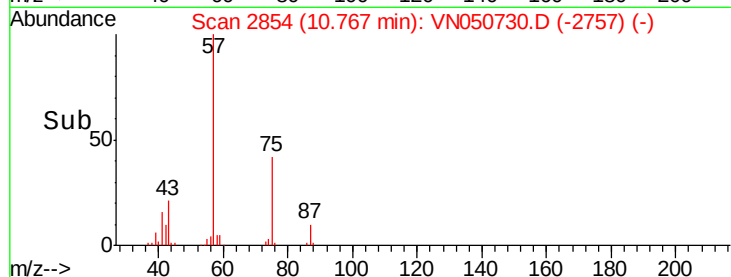
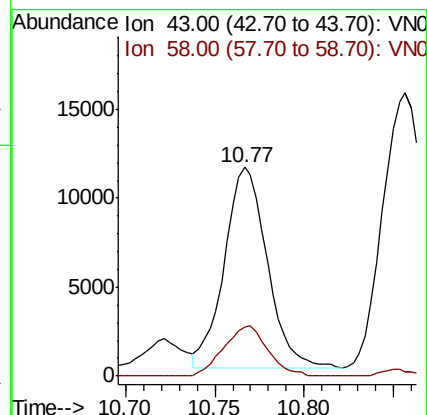
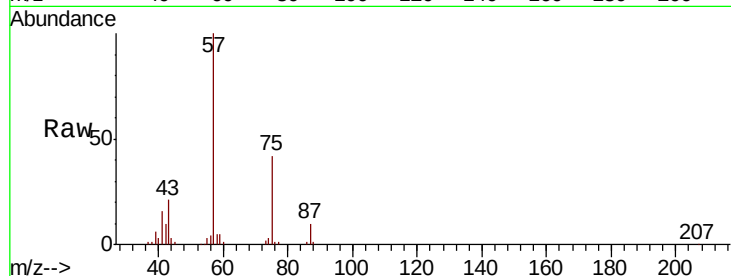
ClientSampleId :

Tot Ion: 43 Resp: 18913

Ion Ratio Lower Upper

43 100

58 25.7 28.0 84.0#



#62

4-Bromofluorobenzene

Concen: 38.00 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN050730.D

Acq: 17 Aug 2018 15:13

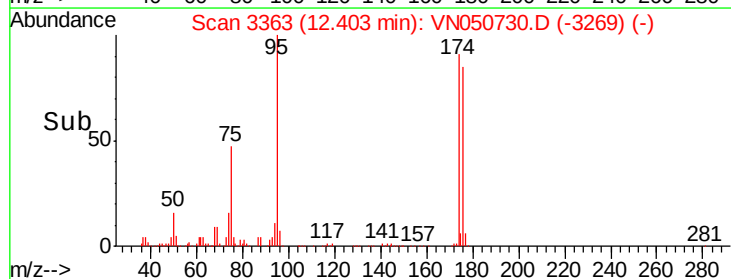
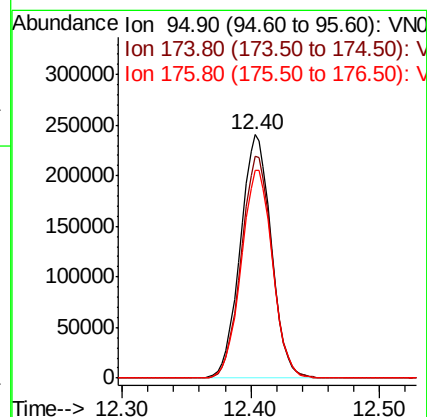
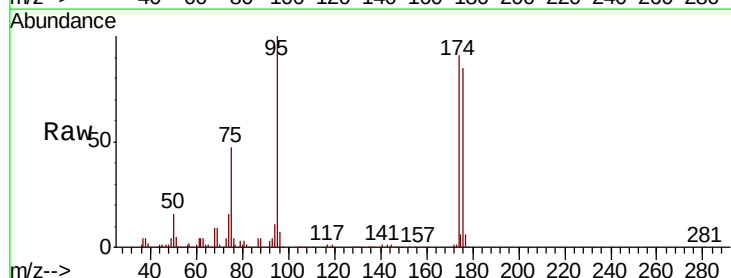
Tgt Ion: 95 Resp: 400331

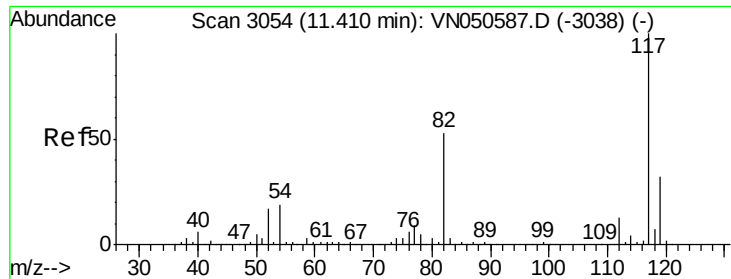
Ion Ratio Lower Upper

95 100

174 91.5 0.0 177.8

176 86.6 0.0 175.0

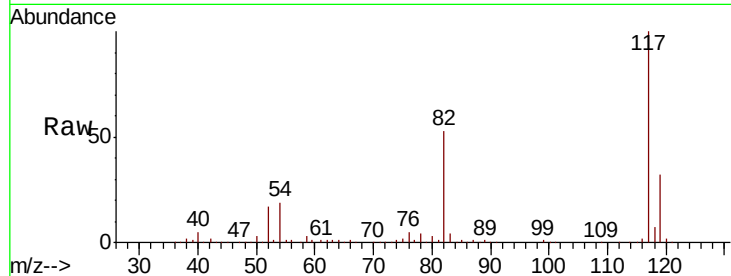




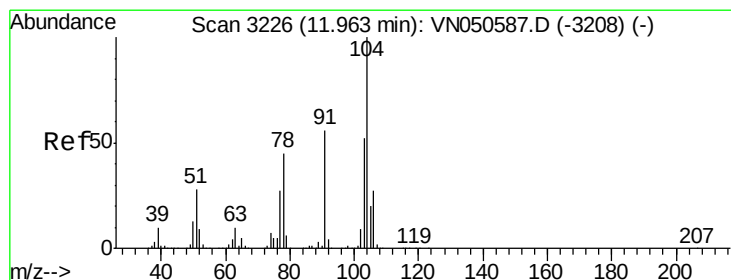
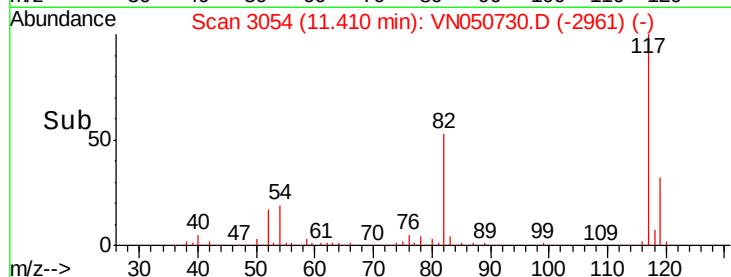
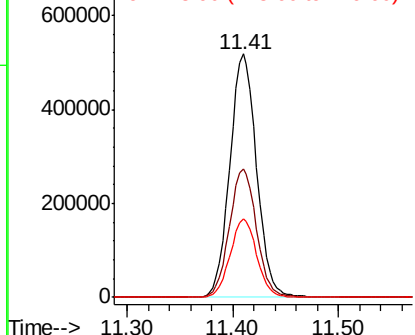
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN050730.D
Acq: 17 Aug 2018 15:13

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 908422
Ion Ratio Lower Upper
117 100
82 52.8 42.4 63.6
119 32.2 25.8 38.8

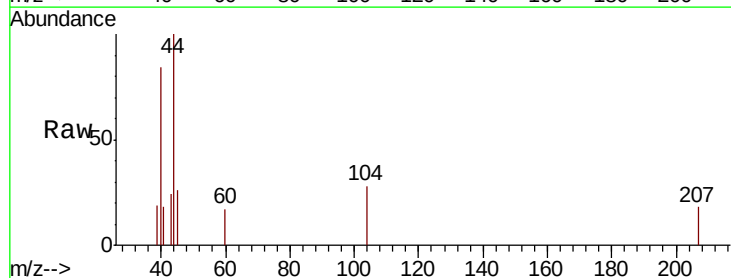


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VN
Ion 118.90 (118.60 to 119.60): V

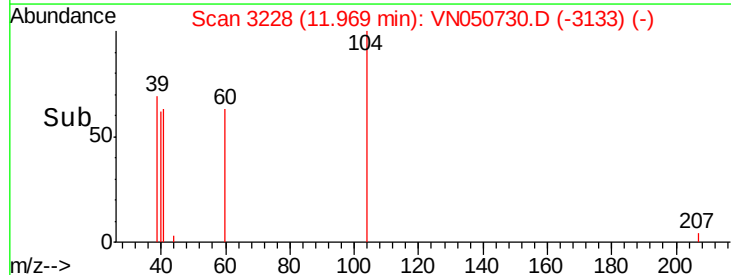
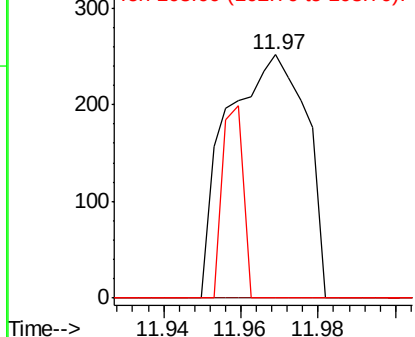


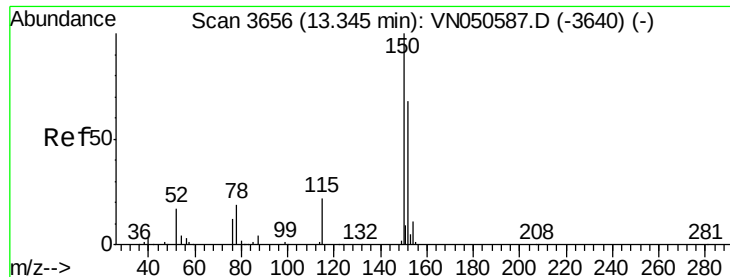
#70
Styrene
Concen: 0.96 ug/l
RT: 11.97 min Scan# 3228
Delta R.T. 0.01 min
Lab File: VN050730.D
Acq: 17 Aug 2018 15:13

Tgt Ion:104 Resp: 359
Ion Ratio Lower Upper
104 100
78 0.0 39.1 58.7#
103 20.6 44.9 67.3#



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VN
Ion 103.00 (102.70 to 103.70): V

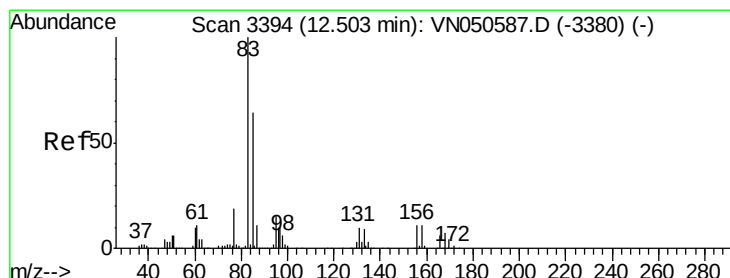
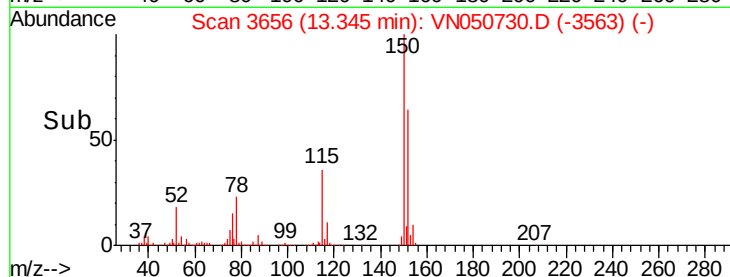
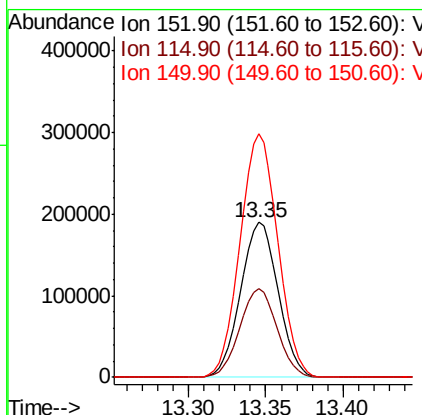
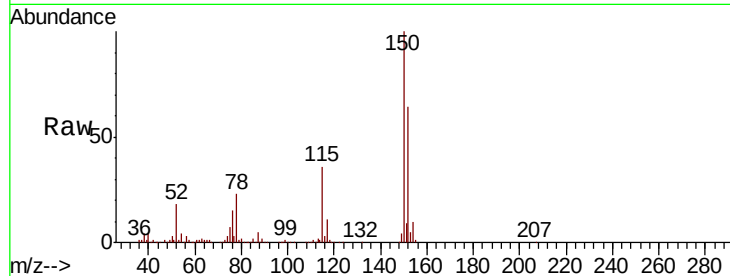




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.00 ug/l
 RT: 13.35 min Scan# 3656
 Delta R.T. -0.00 min
 Lab File: VN050730.D
 Acq: 17 Aug 2018 15:13

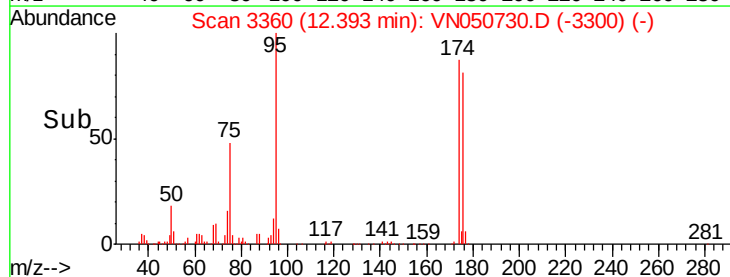
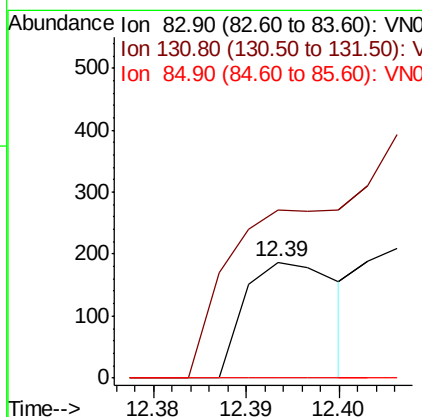
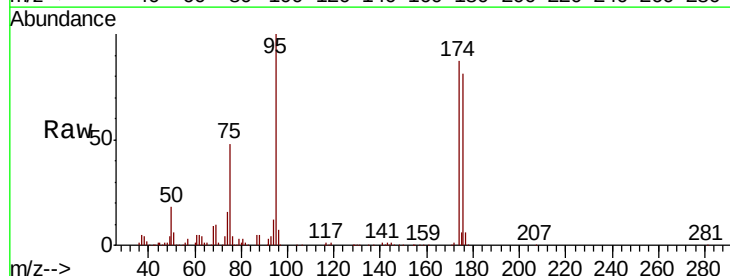
Instrument :
 MSVOA_N
 ClientSampleId :

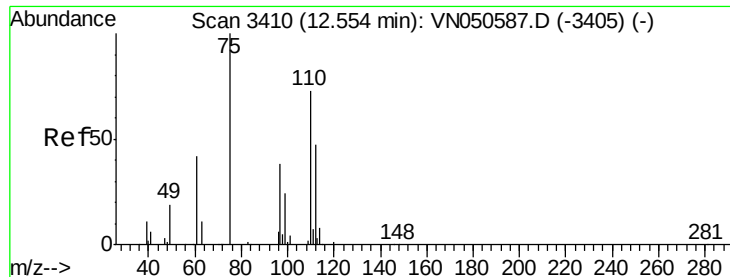
Tot Ion:152 Resp: 320448
 Ion Ratio Lower Upper
 152 100
 115 57.0 28.1 84.2
 150 158.1 0.0 347.8



#75
 1,1,2,2-Tetrachloroethane
 Concen: Below Cal
 RT: 12.39 min Scan# 3360
 Delta R.T. -0.11 min
 Lab File: VN050730.D
 Acq: 17 Aug 2018 15:13

Tgt Ion: 83 Resp: 130
 Ion Ratio Lower Upper
 83 100
 131 467.7 5.3 15.9#
 85 0.0 32.1 96.5#





#76

1,2,3-Trichloropropane

Concen: 36.37 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050730.D

Acq: 17 Aug 2018 15:13

Instrument :

MSVOA_N

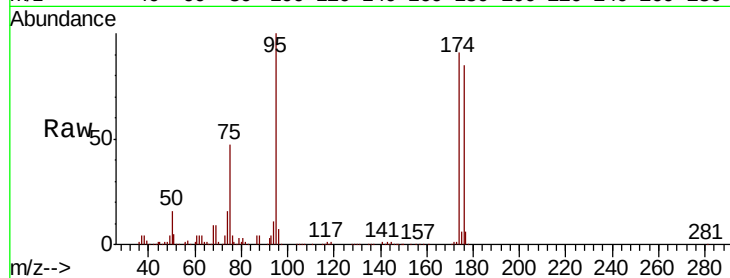
ClientSampleId :

Tot Ion: 75 Resp: 189755

Ion Ratio Lower Upper

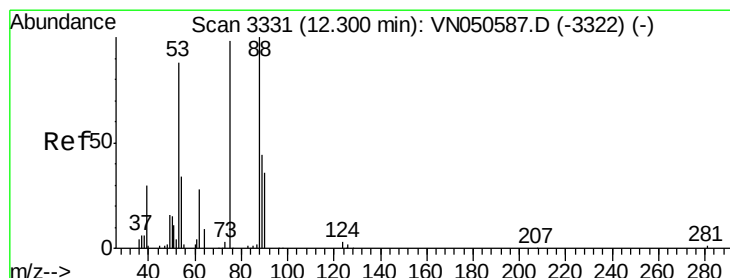
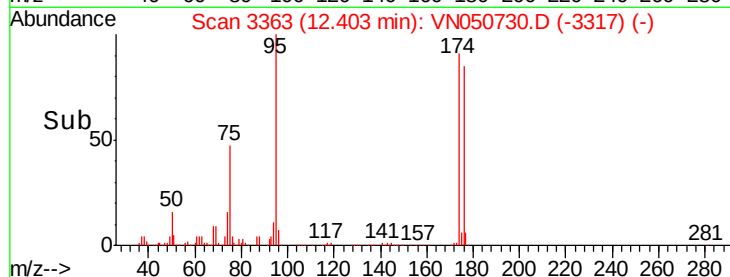
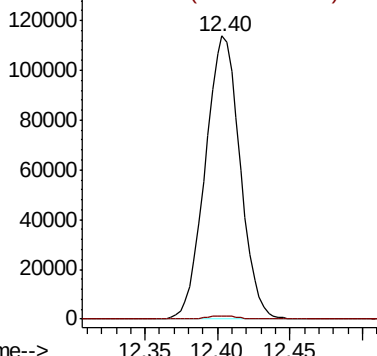
75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#81

trans-1,4-Dichloro-2-butene

Concen: 131.65 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050730.D

Acq: 17 Aug 2018 15:13

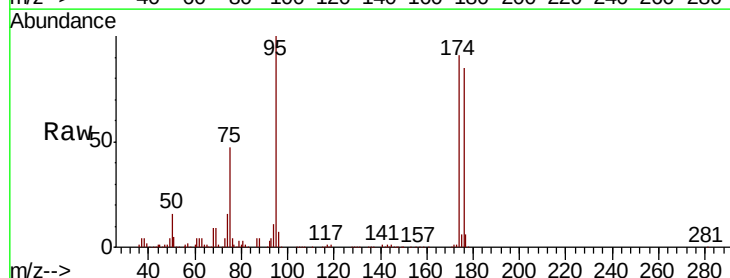
Tgt Ion: 75 Resp: 189755

Ion Ratio Lower Upper

75 100

53 0.2 72.2 108.2#

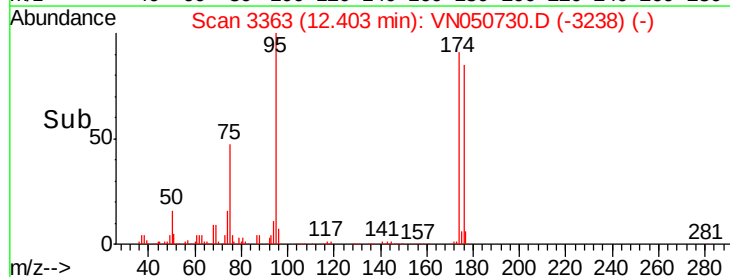
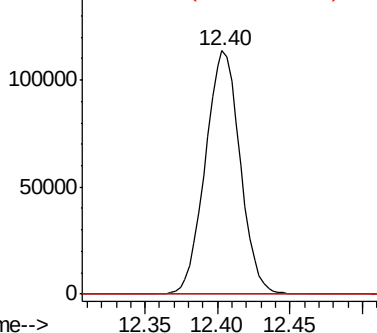
89 0.0 36.3 54.5#

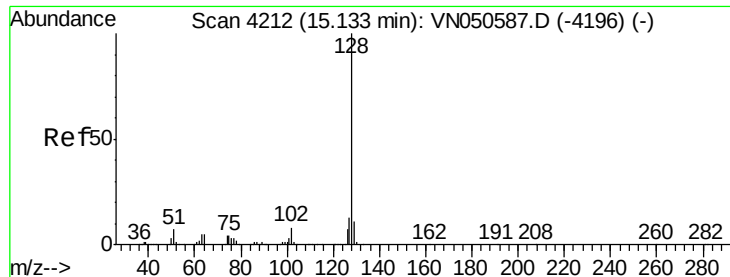


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0





#95

Naphthalene

Concen: 3.90 ug/l

RT: 15.14 min Scan# 4214

Delta R.T. 0.01 min

Lab File: VN050730.D

Acq: 17 Aug 2018 15:13

Instrument :

MSVOA_N

ClientSampled :

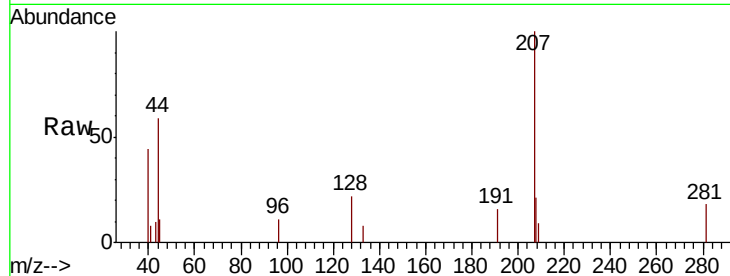
Tot Ion:128 Resp: 456

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

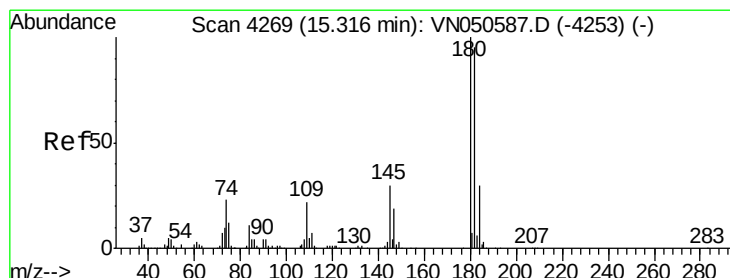
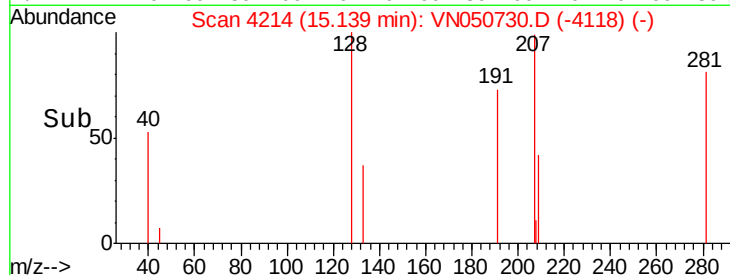
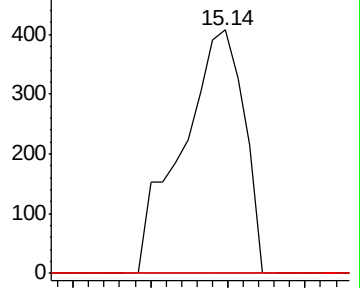
129 0.0 8.5 12.7#



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



#96

1,2,3-Trichlorobenzene

Concen: 1.95 ug/l

RT: 15.32 min Scan# 4271

Delta R.T. 0.01 min

Lab File: VN050730.D

Acq: 17 Aug 2018 15:13

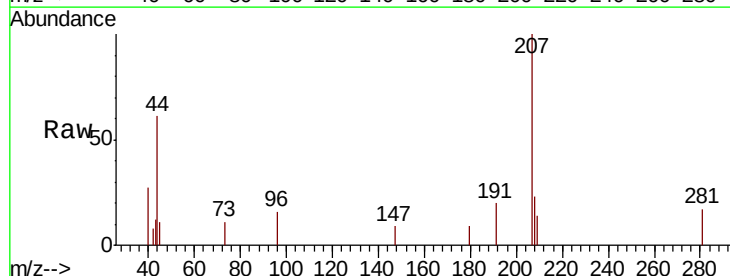
Tgt Ion:180 Resp: 63

Ion Ratio Lower Upper

180 100

182 0.0 47.3 141.8#

145 0.0 14.6 44.0#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

