

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081518\
 Data File : VN050685.D
 Acq On : 16 Aug 2018 4:50
 Operator : MD\SY
 Sample : J4471-24
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 51 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-6

Quant Time: Aug 16 08:05:32 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	610016	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1009093	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	864330	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	309247	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	417364	54.28	ug/l	0.00
Spiked Amount			Recovery	=	108.56%	
35) Dibromofluoromethane	7.59	113	388554	48.23	ug/l	0.00
Spiked Amount			Recovery	=	96.46%	
50) Toluene-d8	10.09	98	1382302	45.59	ug/l	0.00
Spiked Amount			Recovery	=	91.18%	
62) 4-Bromofluorobenzene	12.40	95	382485	38.19	ug/l	0.00
Spiked Amount			Recovery	=	76.38%	

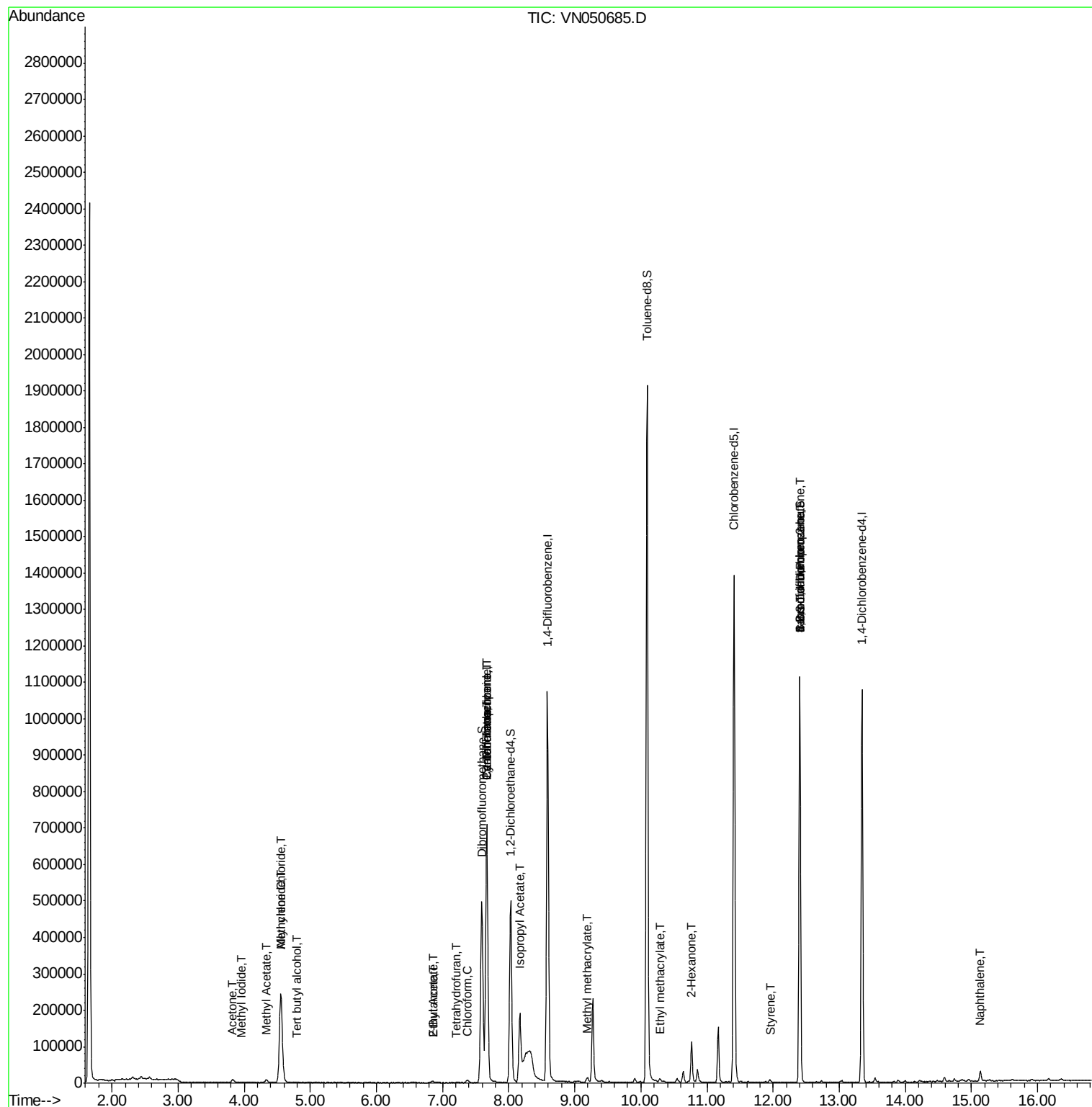
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	2493	Below Cal	#	71
5) Bromomethane	2.57	94	3139	Below Cal		96
6) Chloroethane	2.71	64	242	Below Cal	#	43
10) Methyl Iodide	3.96	142	371	7.01	ug/l	# 52
11) Tert butyl alcohol	4.79	59	290	0.69	ug/l	# 72
14) Allyl chloride	4.55	41	7412	0.72	ug/l	# 25
16) Acetone	3.83	43	14710	6.25	ug/l	98
18) Methyl Acetate	4.33	43	15130	1.84	ug/l	99
20) Methylene Chloride	4.55	84	194241	25.97	ug/l	98
25) 2-Butanone	6.85	43	6665	2.11	ug/l	99
29) Tetrahydrofuran	7.21	42	376	0.23	ug/l	# 33
30) Chloroform	7.37	83	6980	0.50	ug/l	96
31) Cyclohexane	7.66	56	10409	0.55	ug/l	# 1
36) 1,1-Dichloropropene	7.67	75	42806	3.81	ug/l	# 48
37) Ethyl Acetate	6.85	43	6665	1.05	ug/l	# 67
38) Carbon Tetrachloride	7.67	117	54386	4.67	ug/l	# 17
43) Isopropyl Acetate	8.17	43	233419	20.17	ug/l	96
48) Methyl methacrylate	9.18	41	7529	1.29	ug/l	# 16
56) Ethyl methacrylate	10.30	69	65	1.91	ug/l	# 28
59) 2-Hexanone	10.77	43	17161	3.40	ug/l	62
70) Styrene	11.97	104	160	0.95	ug/l	# 39
71) Bromoform	12.40	173	2224	0.42	ug/l	# 1
75) 1,1,2,2-Tetrachloroethane	12.40	83	122	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	181569	36.05	ug/l	# 100
81) trans-1,4-Dichloro-2-buten	12.40	75	181569	130.53	ug/l	# 13
95) Naphthalene	15.14	128	24619	5.77	ug/l	97

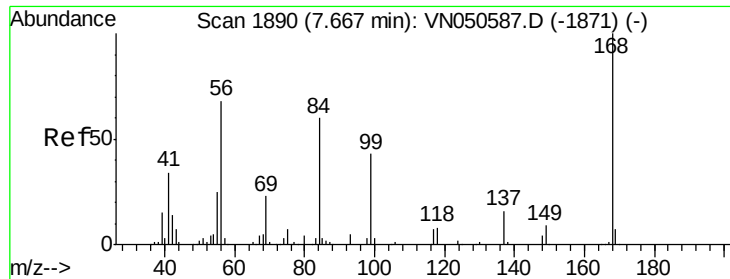
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN050685.D

Acq: 16 Aug 2018 4:50

Instrument :

MSVOA_N

ClientSampleId :

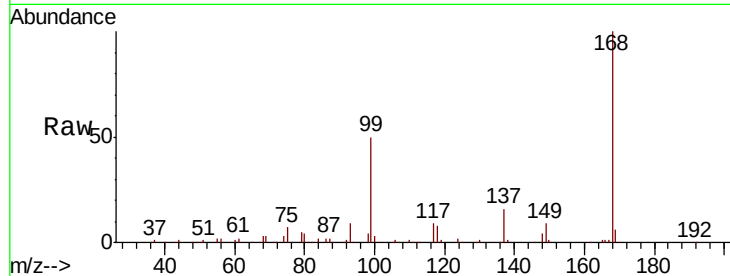
TP-6

Tot Ion:168 Resp: 610016

Ion Ratio Lower Upper

168 100

99 50.2 40.8 61.2



Abundance Ion 167.90 (167.60 to 168.60): VN050587.D (-1871) (-)

Ion 98.90 (98.60 to 99.60): VN050587.D (-1871) (-)

7.67

250000

200000

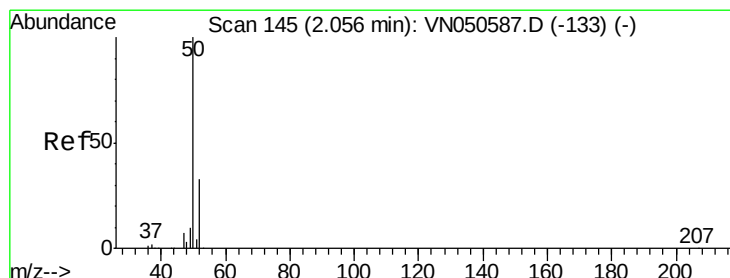
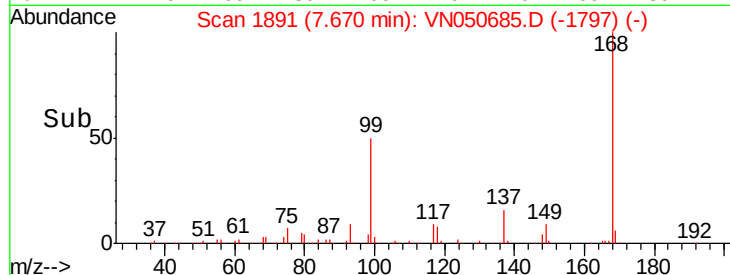
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 2.06 min Scan# 145

Delta R.T. 0.00 min

Lab File: VN050685.D

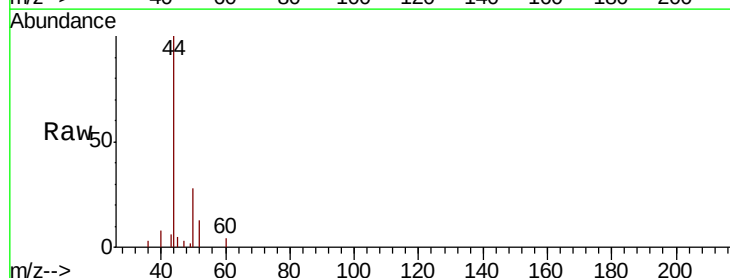
Acq: 16 Aug 2018 4:50

Tgt Ion: 50 Resp: 2493

Ion Ratio Lower Upper

50 100

52 48.6 26.0 39.0#



Abundance Ion 49.90 (49.60 to 50.60): VN050587.D (-133) (-)

Ion 51.90 (51.60 to 52.60): VN050587.D (-133) (-)

2000

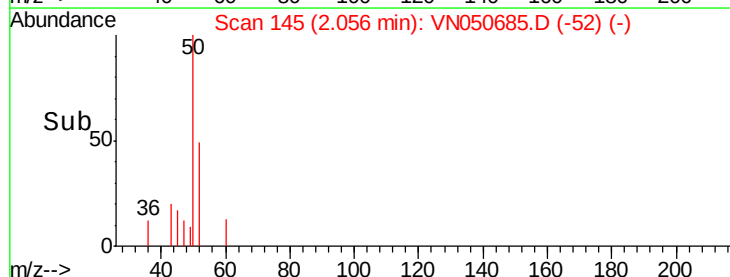
1500

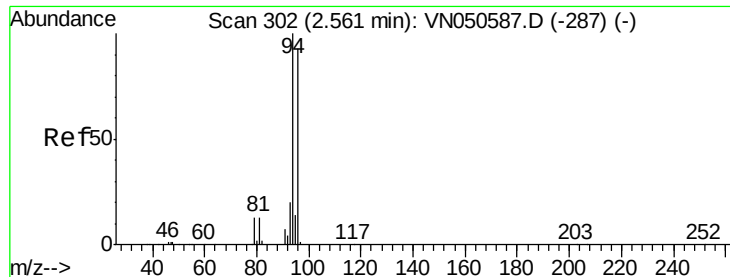
1000

500

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 306

Delta R.T. 0.01 min

Lab File: VN050685.D

Acq: 16 Aug 2018 4:50

Instrument :

MSVOA_N

ClientSampleId :

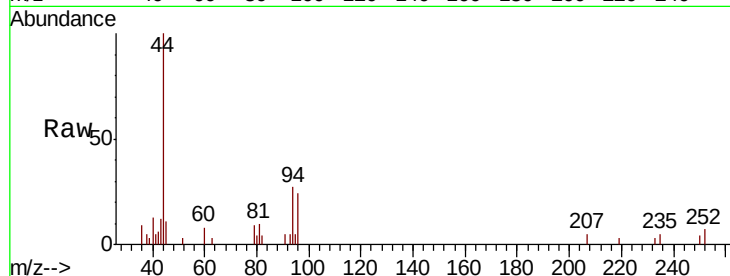
TP-6

Tot Ion: 94 Resp: 3139

Ion Ratio Lower Upper

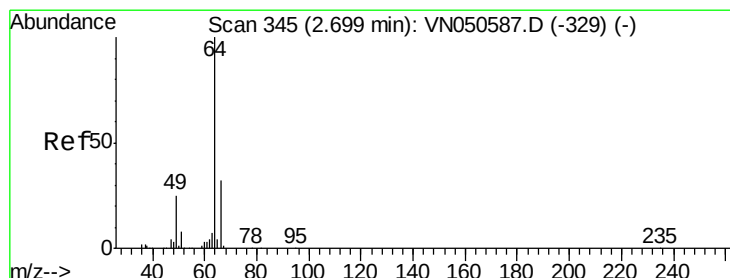
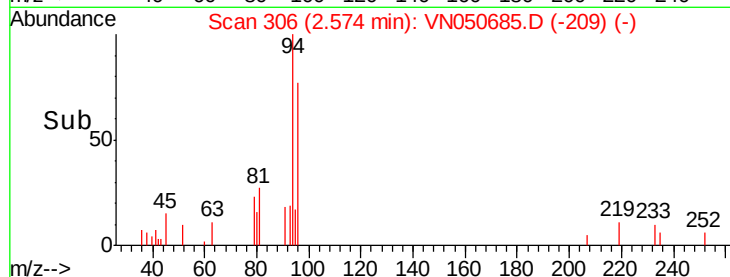
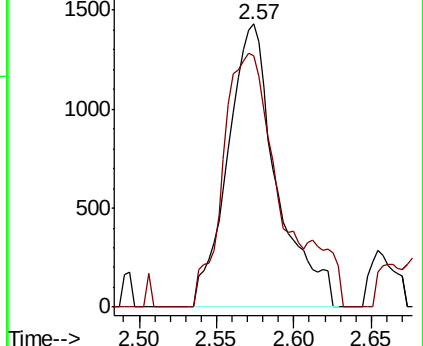
94 100

96 89.0 74.0 111.0



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#6

Chloroethane

Concen: Below Cal

RT: 2.71 min Scan# 348

Delta R.T. 0.01 min

Lab File: VN050685.D

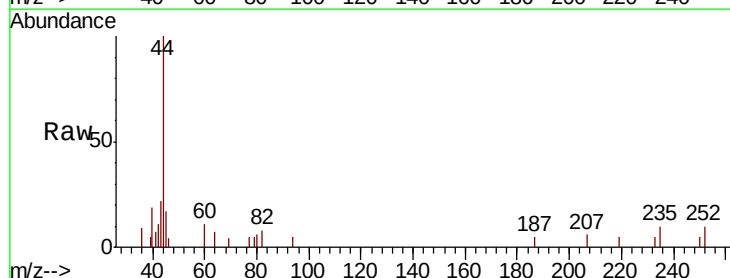
Acq: 16 Aug 2018 4:50

Tgt Ion: 64 Resp: 242

Ion Ratio Lower Upper

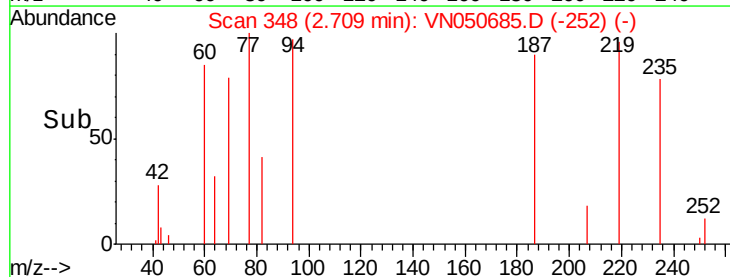
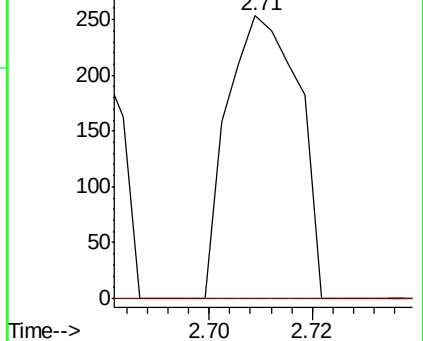
64 100

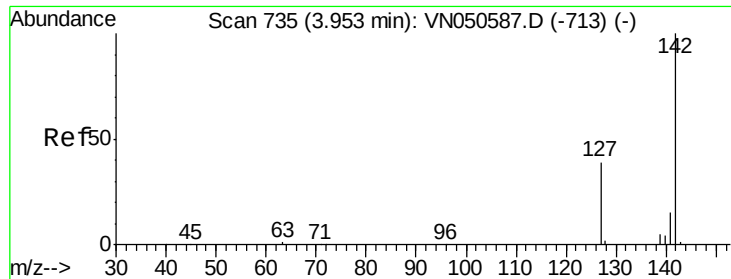
66 0.0 25.7 38.5#



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0

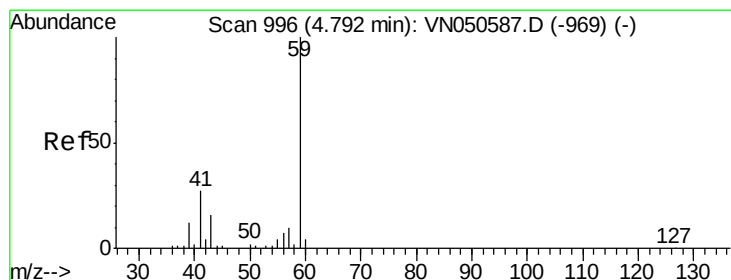
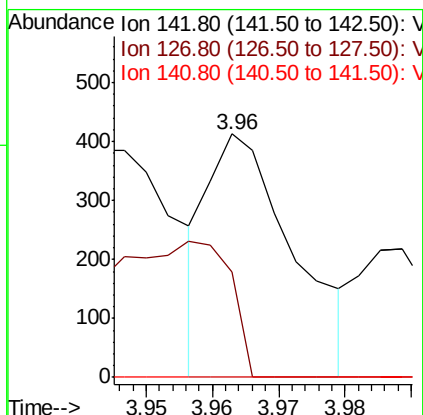
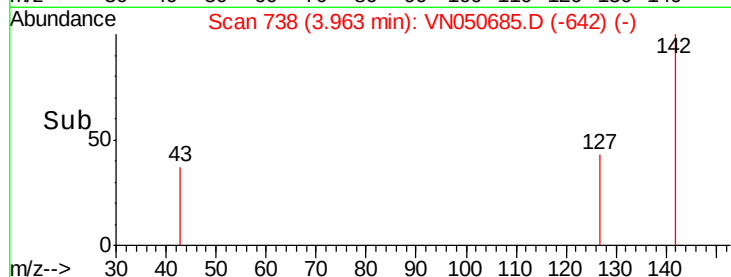
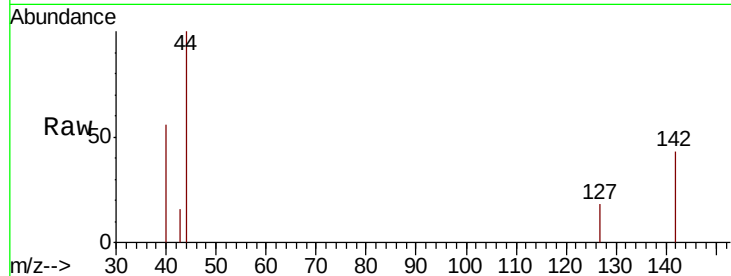




#10
Methvl Iodide
Concen: 7.01 ug/l
RT: 3.96 min Scan# 738
Delta R.T. 0.01 min
Lab File: VN050685.D
Acq: 16 Aug 2018 4:50

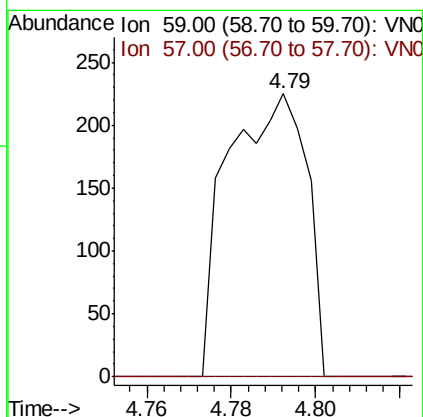
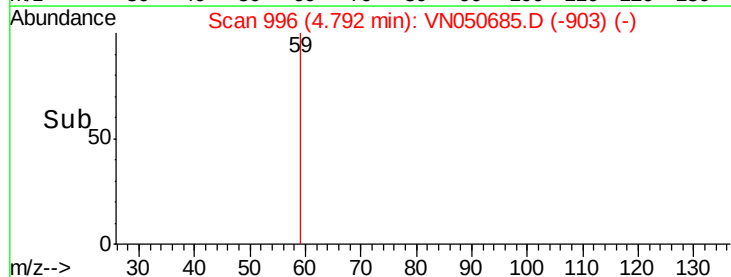
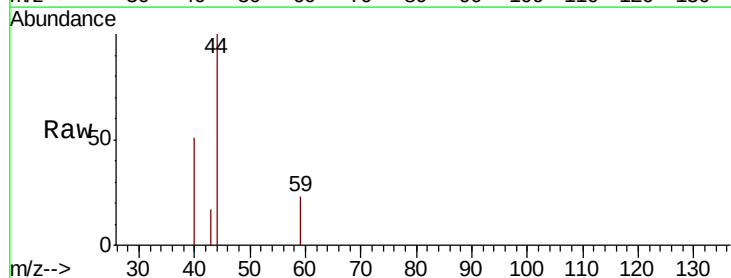
Instrument :
MSVOA_N
ClientSampled :
TP-6

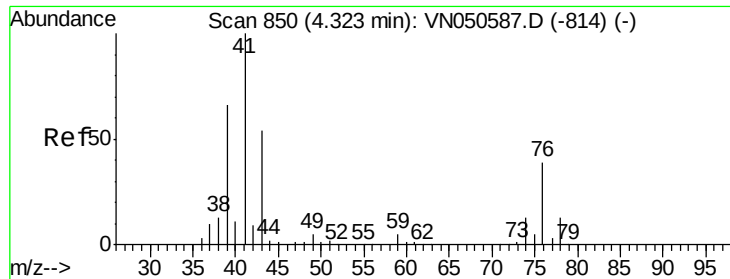
Tot Ion:142 Resp: 371
Ion Ratio Lower Upper
142 100
127 73.6 32.6 49.0#
141 0.0 11.5 17.3#



#11
Tert butyl alcohol
Concen: 0.69 ug/l
RT: 4.79 min Scan# 996
Delta R.T. -0.00 min
Lab File: VN050685.D
Acq: 16 Aug 2018 4:50

Tgt Ion: 59 Resp: 290
Ion Ratio Lower Upper
59 100
57 0.0 8.4 12.6#

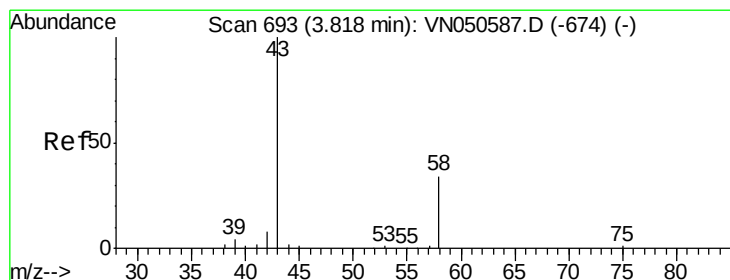
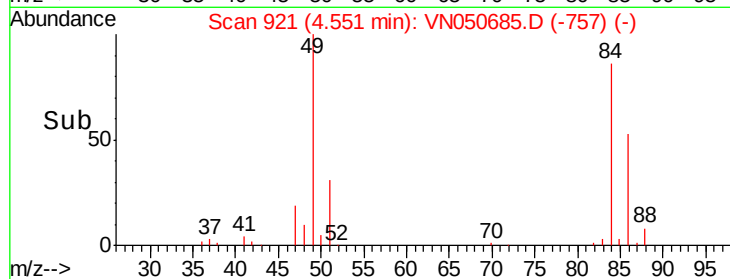
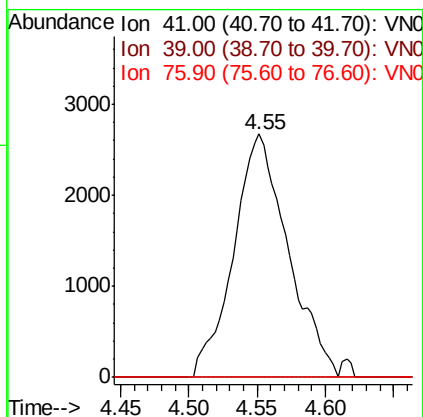
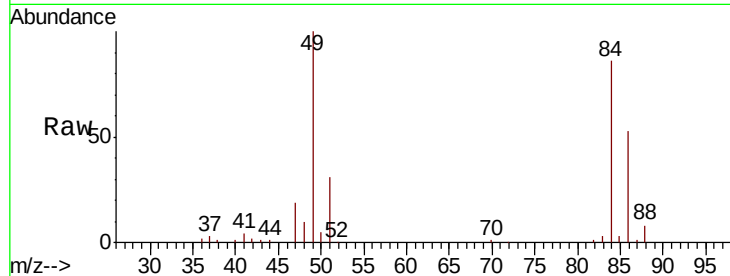




#14
Allvl chloride
Concen: 0.72 ug/l
RT: 4.55 min Scan# 921
Delta R.T. 0.23 min
Lab File: VN050685.D
Acq: 16 Aug 2018 4:50

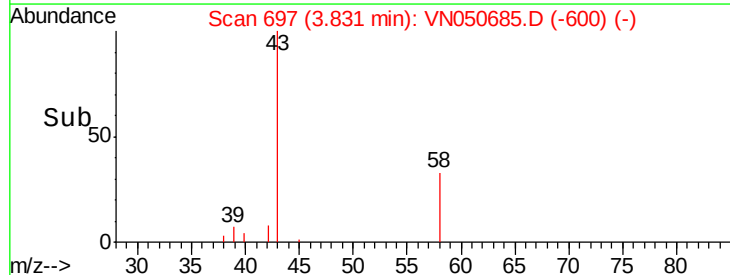
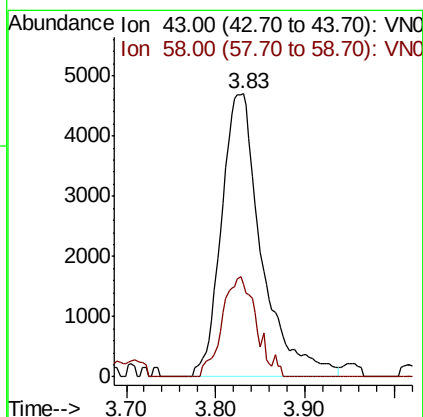
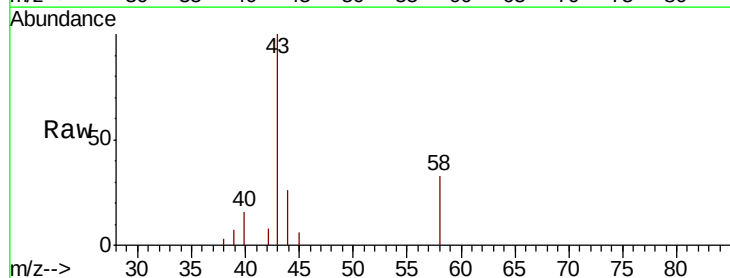
Instrument :
MSVOA_N
ClientSampleId :
TP-6

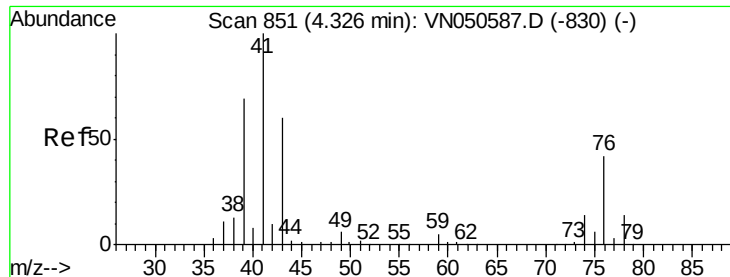
Tot Ion: 41 Resp: 7412
Ion Ratio Lower Upper
41 100
39 0.0 51.4 77.0#
76 0.0 29.4 44.0#



#16
Acetone
Concen: 6.25 ug/l
RT: 3.83 min Scan# 697
Delta R.T. 0.01 min
Lab File: VN050685.D
Acq: 16 Aug 2018 4:50

Tgt Ion: 43 Resp: 14710
Ion Ratio Lower Upper
43 100
58 32.8 27.1 40.7

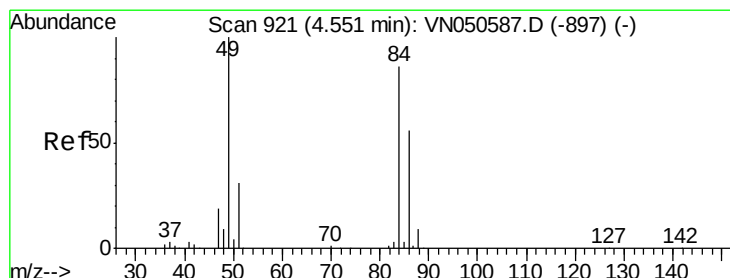
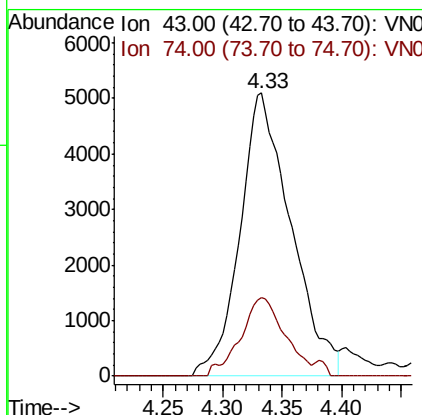
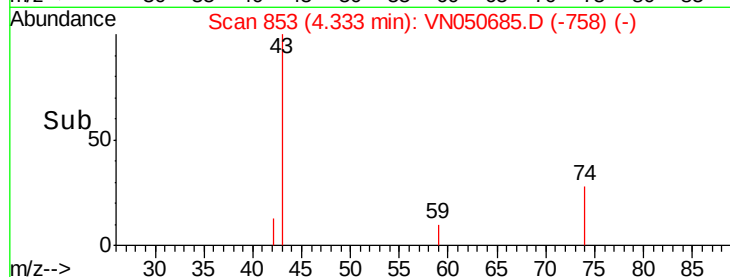
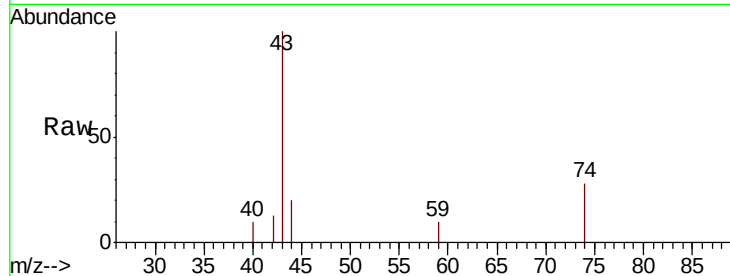




#18
Methyl Acetate
Concen: 1.84 ug/l
RT: 4.33 min Scan# 853
Delta R.T. 0.01 min
Lab File: VN050685.D
Acq: 16 Aug 2018 4:50

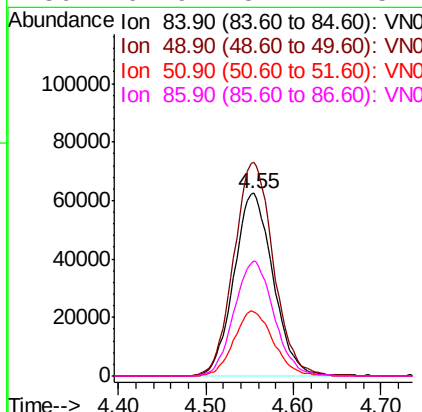
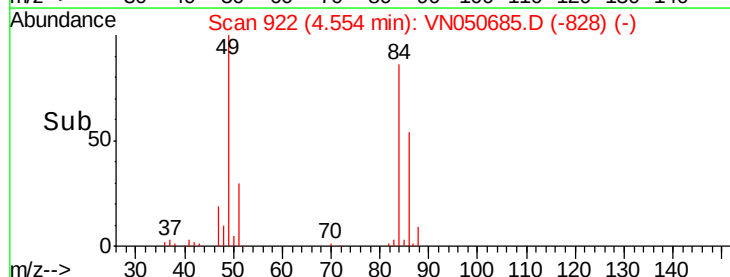
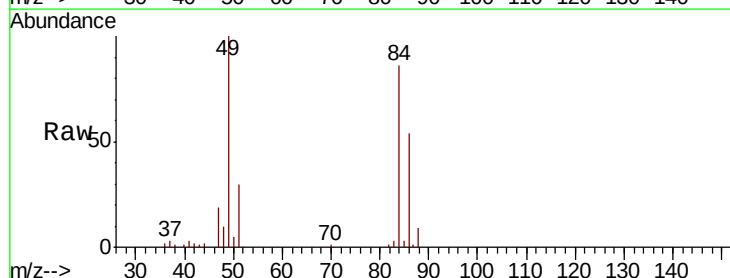
Instrument :
MSVOA_N
ClientSampleId :
TP-6

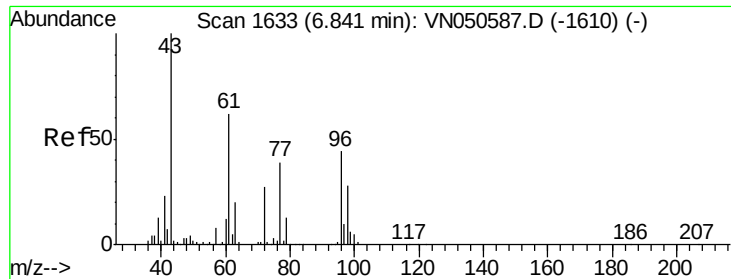
Tot Ion: 43 Resp: 15130
Ion Ratio Lower Upper
43 100
74 24.1 19.7 29.5



#20
Methylene Chloride
Concen: 25.97 ug/l
RT: 4.55 min Scan# 922
Delta R.T. 0.00 min
Lab File: VN050685.D
Acq: 16 Aug 2018 4:50

Tgt Ion: 84 Resp: 194241
Ion Ratio Lower Upper
84 100
49 116.8 92.6 138.8
51 35.2 28.6 43.0
86 62.9 52.2 78.2

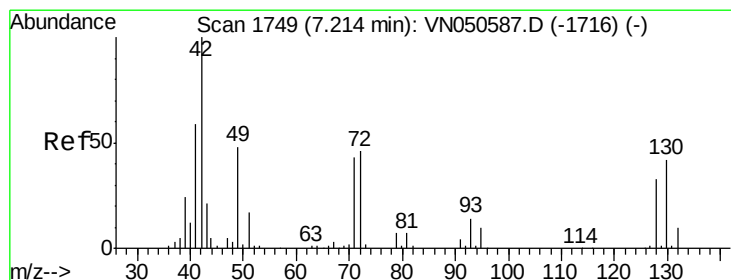
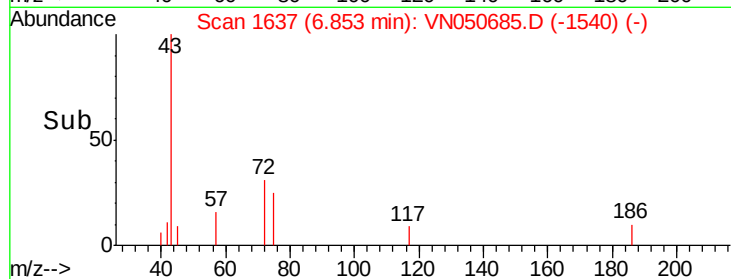
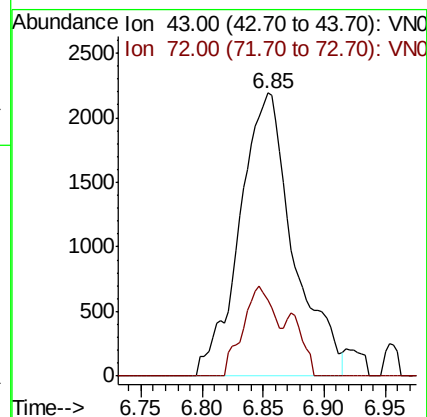
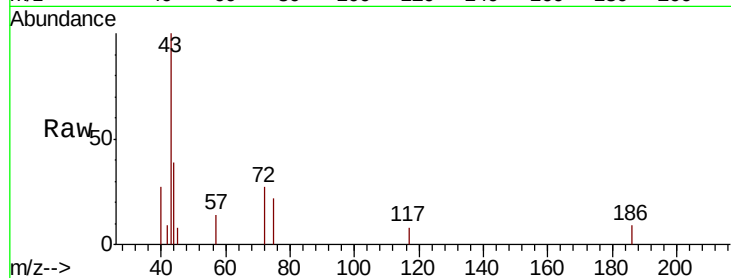




#25
2-Butanone
Concen: 2.11 ug/l
RT: 6.85 min Scan# 1637
Delta R.T. 0.01 min
Lab File: VN050685.D
Acq: 16 Aug 2018 4:50

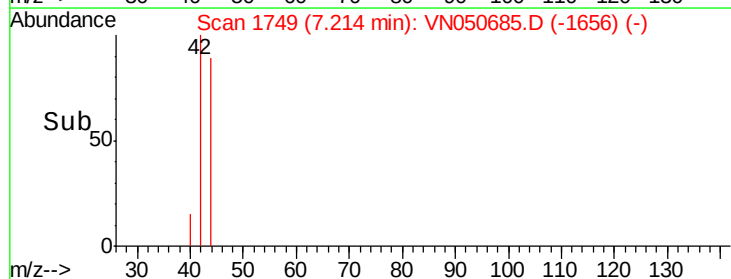
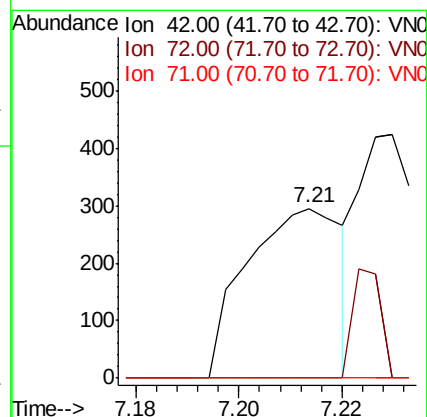
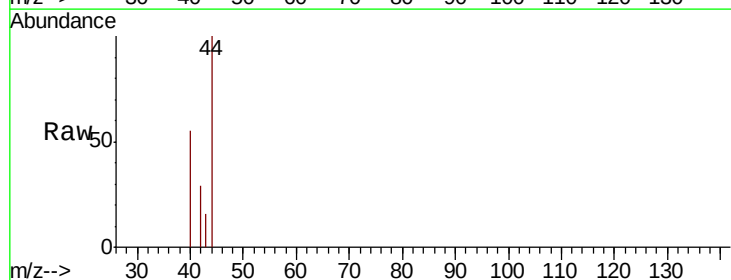
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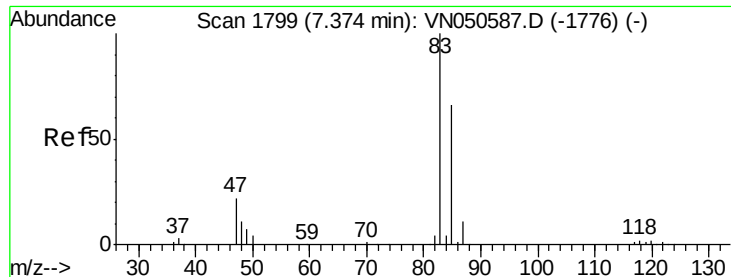
Tot Ion: 43 Resp: 6665
Ion Ratio Lower Upper
43 100
72 26.7 21.8 32.6



#29
Tetrahydrofuran
Concen: 0.23 ug/l
RT: 7.21 min Scan# 1749
Delta R.T. -0.00 min
Lab File: VN050685.D
Acq: 16 Aug 2018 4:50

Tgt Ion: 42 Resp: 376
Ion Ratio Lower Upper
42 100
72 0.0 35.8 53.6#
71 0.0 33.4 50.0#

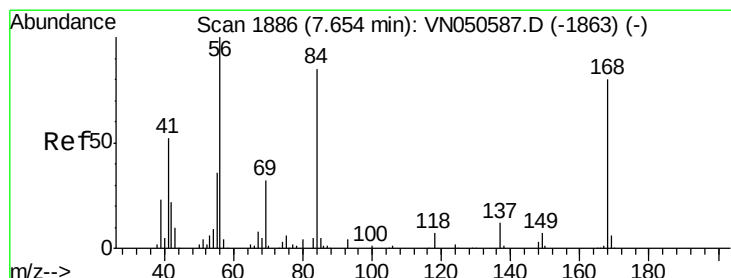
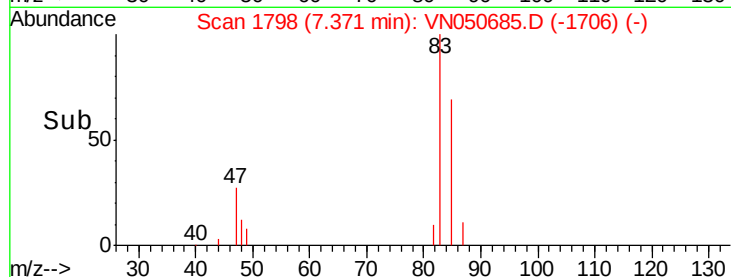
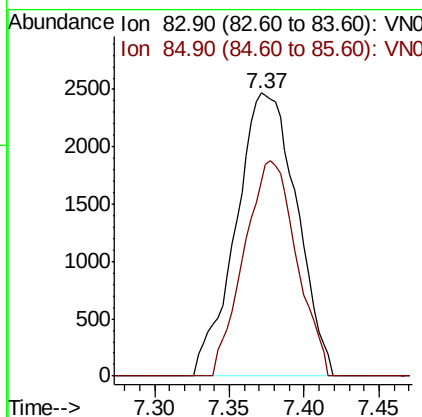
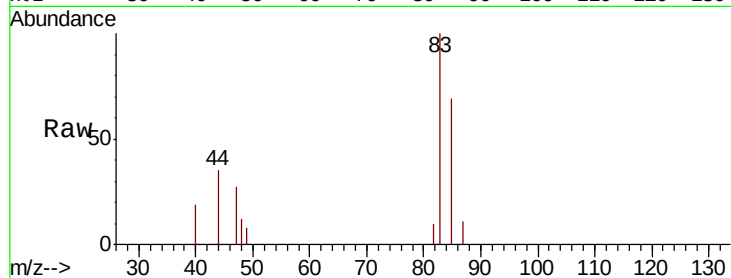




#30
Chloroform
Concen: 0.50 ug/l
RT: 7.37 min Scan# 1798
Delta R.T. -0.00 min
Lab File: VN050685.D
Acq: 16 Aug 2018 4:50

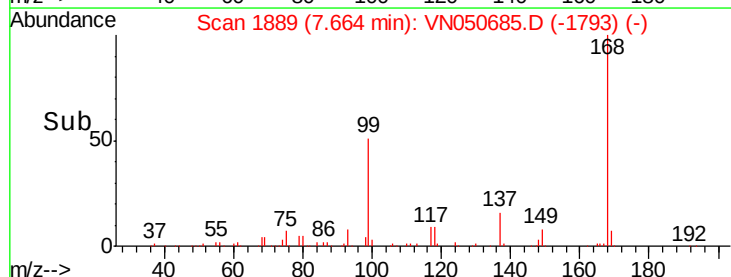
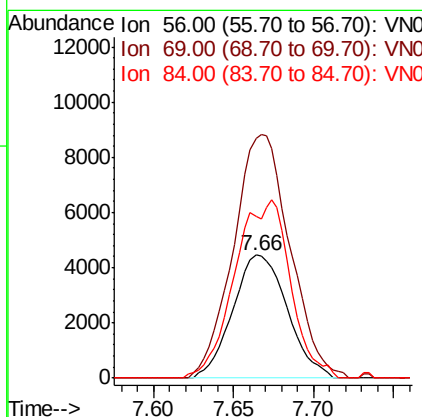
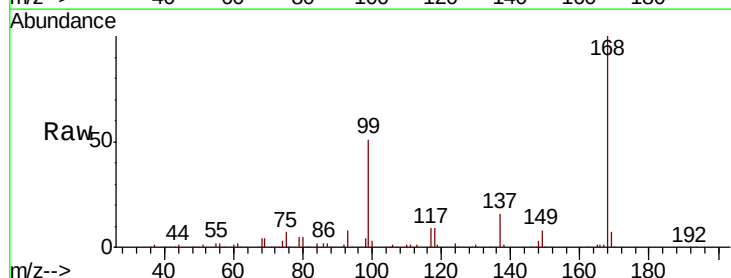
Instrument :
MSVOA_N
ClientSampled :
TP-6

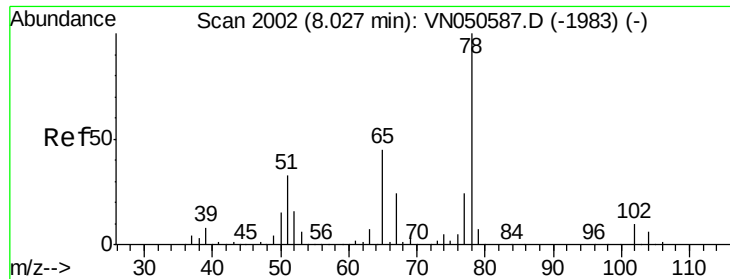
Tot Ion: 83 Resp: 6980
Ion Ratio Lower Upper
83 100
85 68.7 52.5 78.7



#31
Cyclohexane
Concen: 0.55 ug/l
RT: 7.66 min Scan# 1889
Delta R.T. 0.01 min
Lab File: VN050685.D
Acq: 16 Aug 2018 4:50

Tgt Ion: 56 Resp: 10409
Ion Ratio Lower Upper
56 100
69 195.1 25.8 38.6#
84 131.7 67.8 101.6#





#33

1,2-Dichloroethane-d4

Concen: 54.28 ug/l

RT: 8.03 min Scan# 2003

Delta R.T. 0.00 min

Lab File: VN050685.D

Acq: 16 Aug 2018 4:50

Instrument :

MSVOA_N

ClientSampleId :

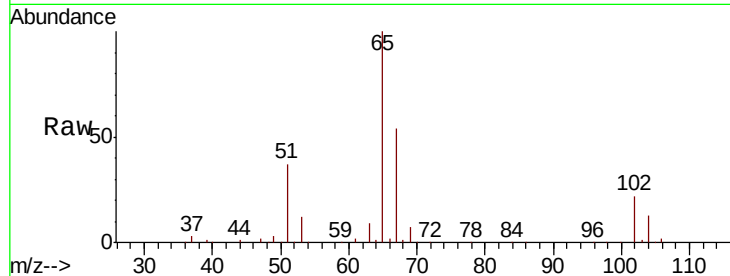
TP-6

Tot Ion: 65 Resp: 417364

Ion Ratio Lower Upper

65 100

67 54.4 0.0 109.8



Abundance Ion 64.90 (64.60 to 65.60): VN050587.D (-1983) (-)

Ion 66.90 (66.60 to 67.60): VN050587.D (-1983) (-)

8.03

200000

150000

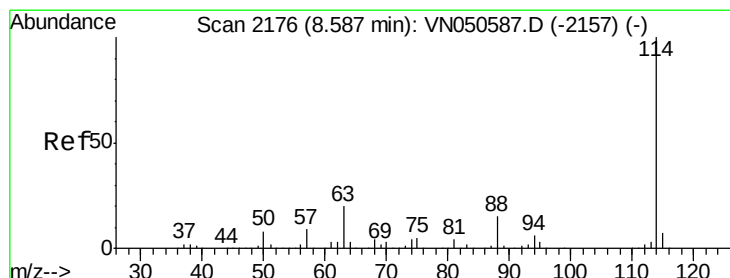
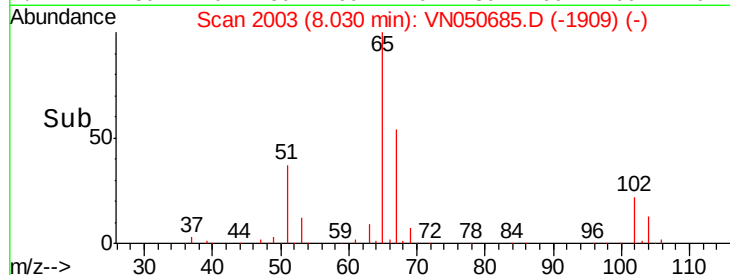
100000

50000

0

7.90 8.00 8.10 8.20

Time-->



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.59 min Scan# 2176

Delta R.T. -0.00 min

Lab File: VN050685.D

Acq: 16 Aug 2018 4:50

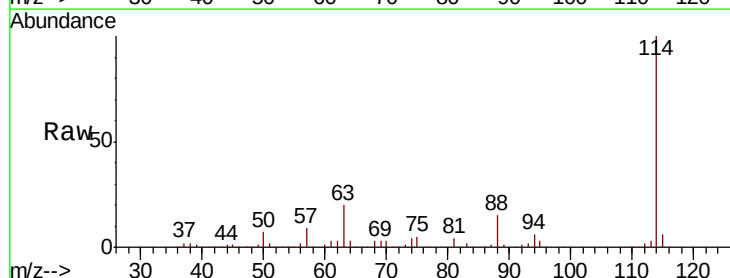
Tgt Ion: 114 Resp: 1009093

Ion Ratio Lower Upper

114 100

63 19.7 0.0 40.0

88 15.4 0.0 30.8



Abundance Ion 113.90 (113.60 to 114.60): VN050587.D (-2157) (-)

Ion 63.00 (62.70 to 63.70): VN050587.D (-2157) (-)

Ion 87.90 (87.60 to 88.60): VN050587.D (-2157) (-)

8.59

600000

500000

400000

300000

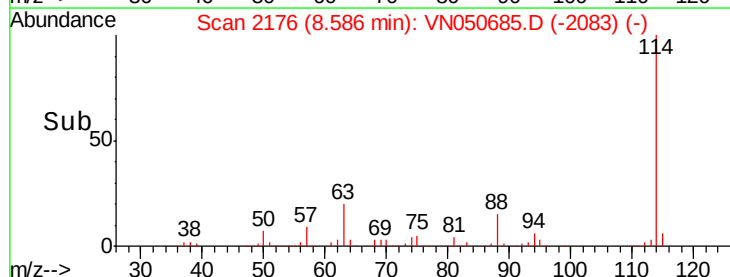
200000

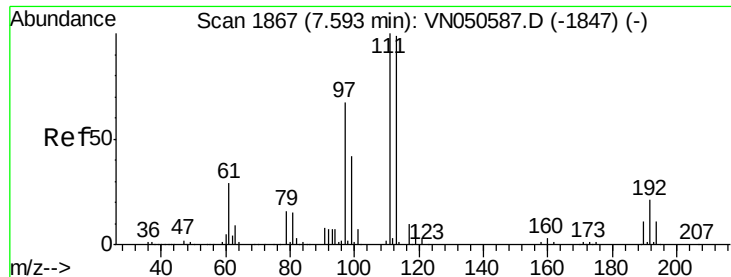
100000

0

8.50 8.60 8.70

Time-->

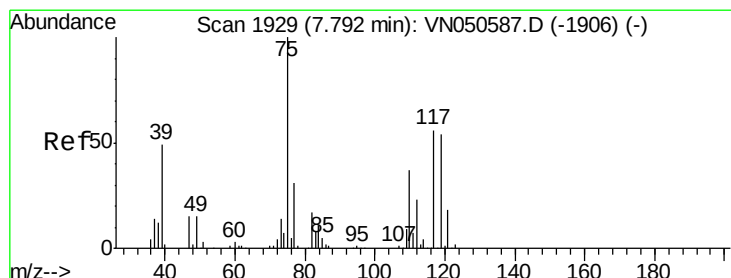
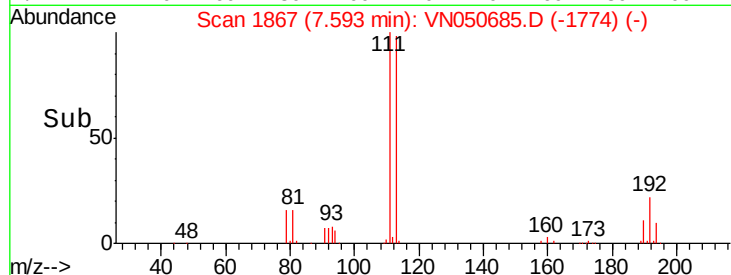
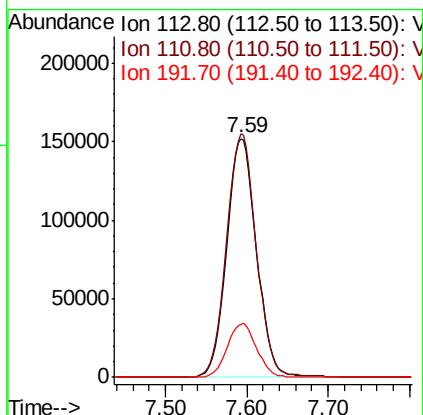
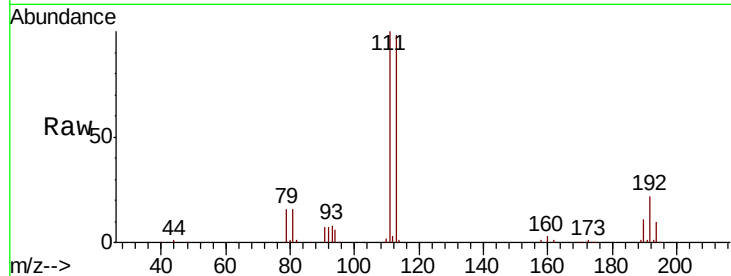




#35
 Dibromofluoromethane
 Concen: 48.23 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. -0.00 min
 Lab File: VN050685.D
 Acq: 16 Aug 2018 4:50

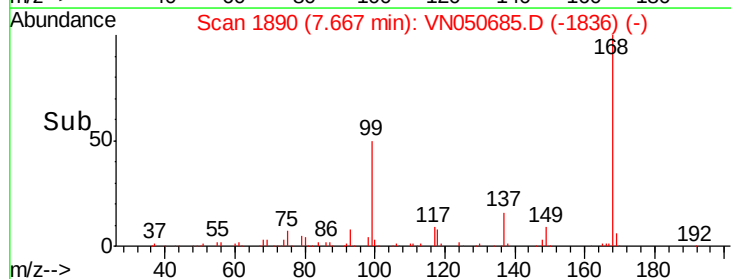
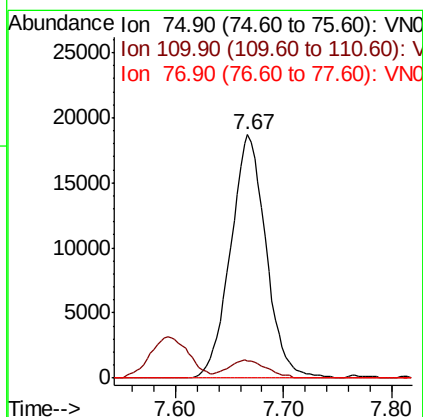
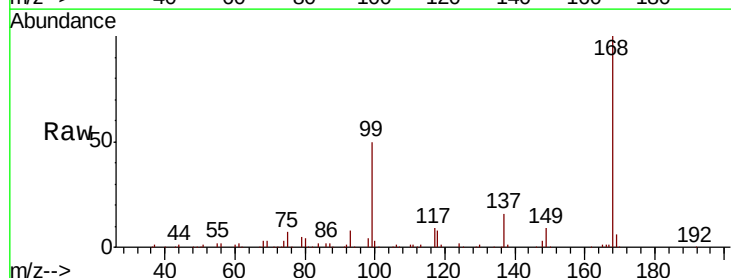
Instrument :
 MSVOA_N
 ClientSampleId :
 TP-6

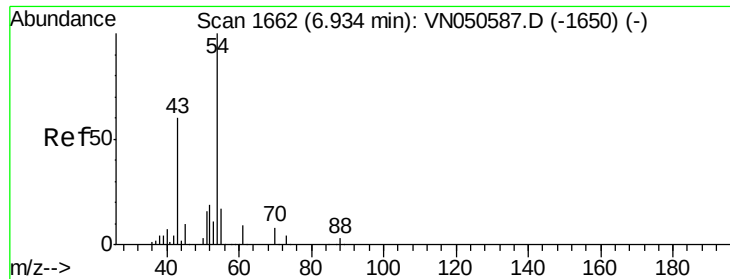
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.4	81.0	121.6
192	22.3	17.6	26.4



#36
 1,1-Dichloropropene
 Concen: 3.81 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.13 min
 Lab File: VN050685.D
 Acq: 16 Aug 2018 4:50

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.1	18.3	54.9#
77	0.0	25.0	37.4#

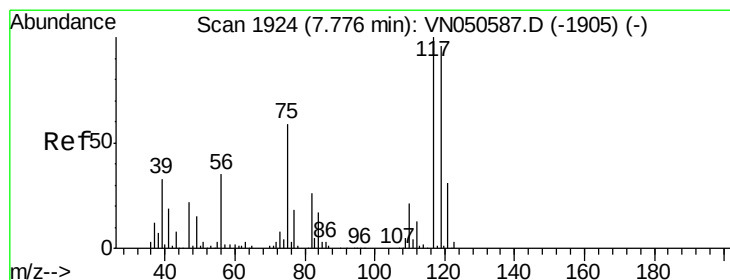
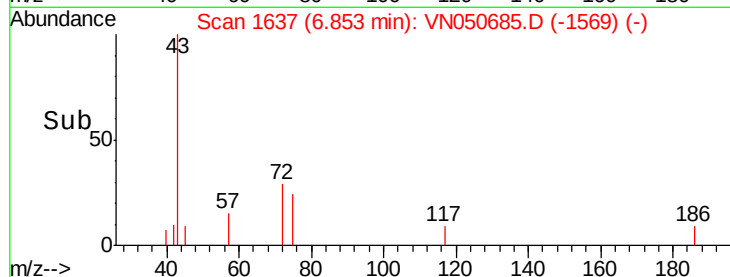
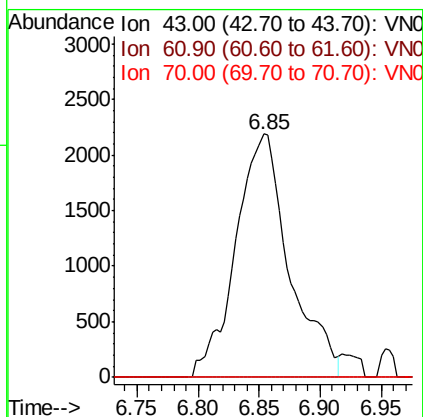
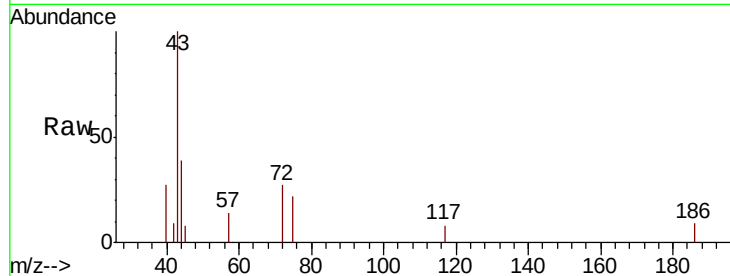




#37
Ethyl Acetate
Concen: 1.05 ug/l
RT: 6.85 min Scan# 1637
Delta R.T. -0.08 min
Lab File: VN050685.D
Acq: 16 Aug 2018 4:50

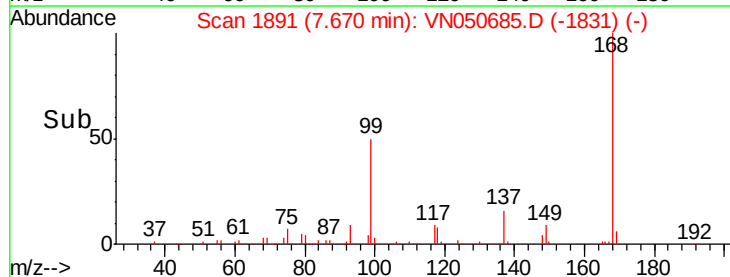
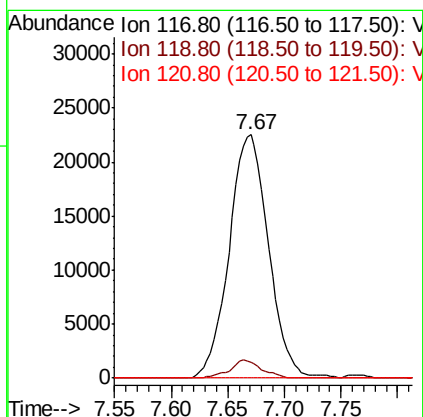
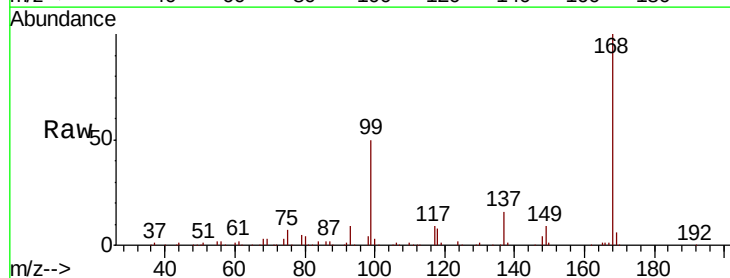
Instrument :
MSVOA_N
ClientSampleId :
TP-6

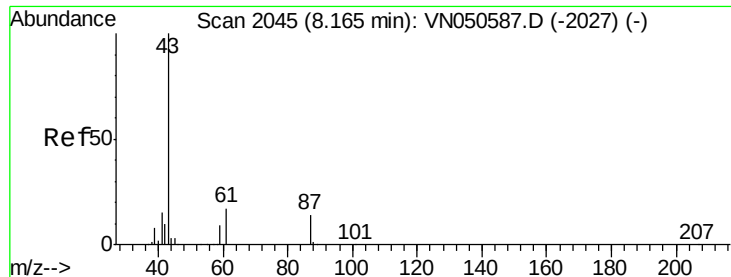
Tot Ion: 43 Resp: 6665
Ion Ratio Lower Upper
43 100
61 0.0 12.0 18.0#
70 0.0 8.5 12.7#



#38
Carbon Tetrachloride
Concen: 4.67 ug/l
RT: 7.67 min Scan# 1891
Delta R.T. -0.11 min
Lab File: VN050685.D
Acq: 16 Aug 2018 4:50

Tgt Ion: 117 Resp: 54386
Ion Ratio Lower Upper
117 100
119 6.6 76.6 115.0#
121 0.0 25.0 37.6#





#43

Isopropyl Acetate

Concen: 20.17 ug/l

RT: 8.17 min Scan# 2046

Delta R.T. 0.00 min

Lab File: VN050685.D

Acq: 16 Aug 2018 4:50

Instrument :

MSVOA_N

ClientSampled :

TP-6

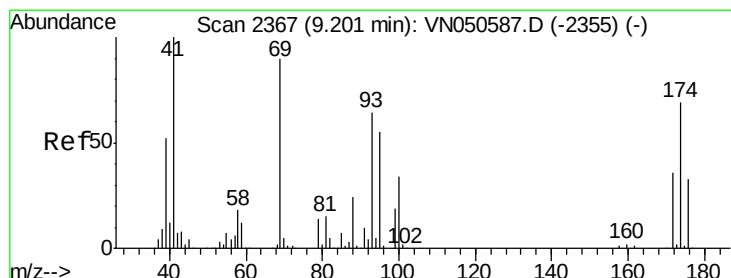
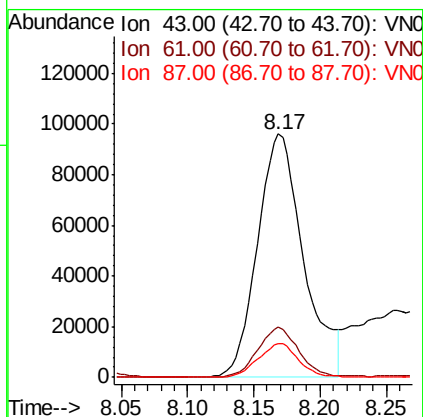
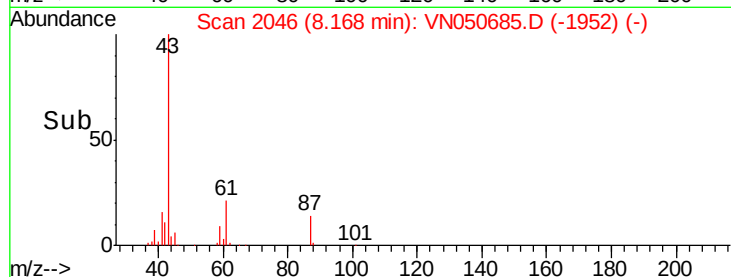
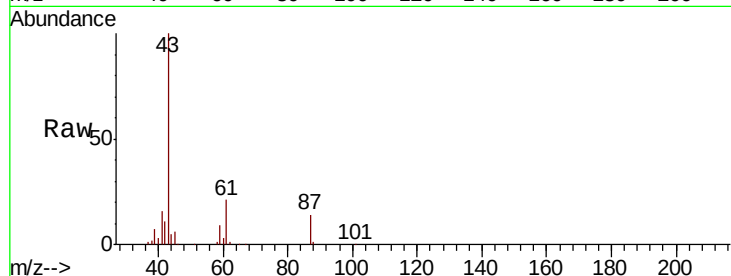
Tot Ion: 43 Resp: 233419

Ion Ratio Lower Upper

43 100

61 18.3 16.2 24.2

87 12.2 10.9 16.3



#48

Methyl methacrylate

Concen: 1.29 ug/l

RT: 9.18 min Scan# 2362

Delta R.T. -0.02 min

Lab File: VN050685.D

Acq: 16 Aug 2018 4:50

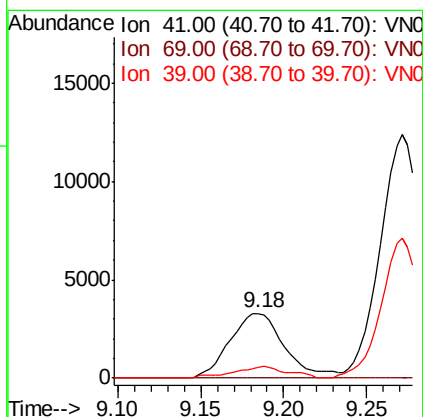
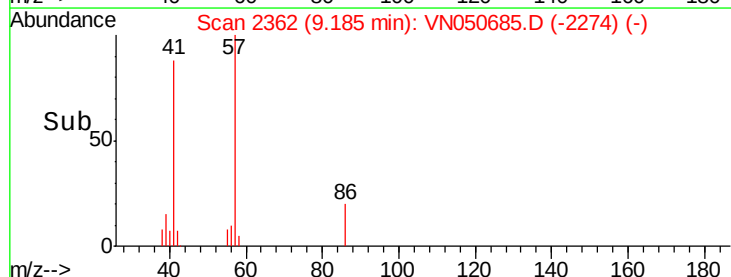
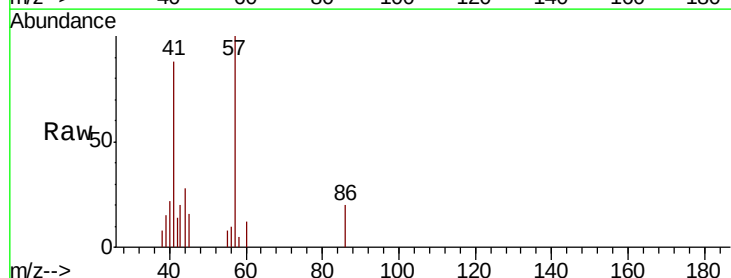
Tgt Ion: 41 Resp: 7529

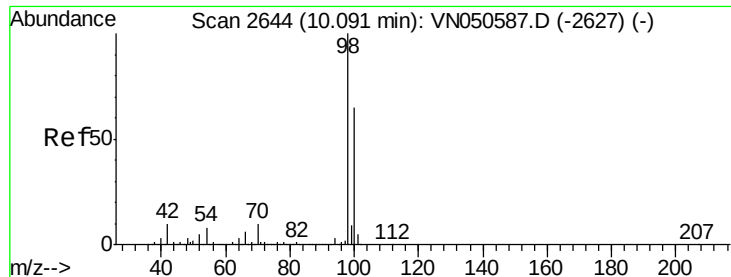
Ion Ratio Lower Upper

41 100

69 0.0 73.4 110.0#

39 8.3 43.0 64.6#

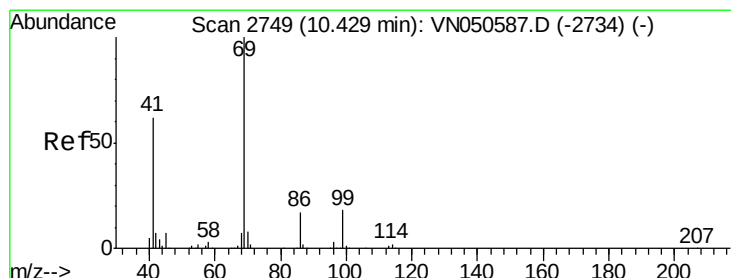
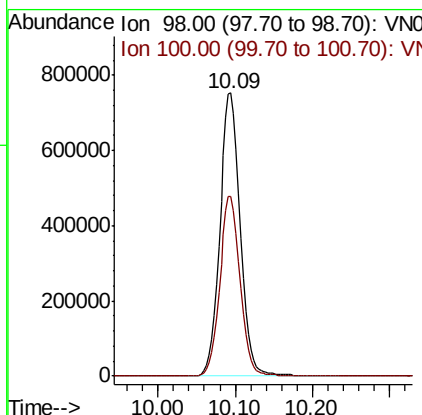
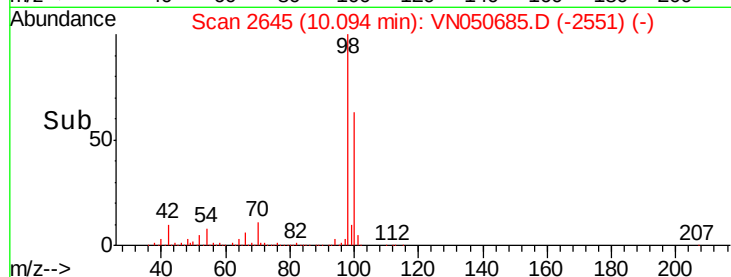
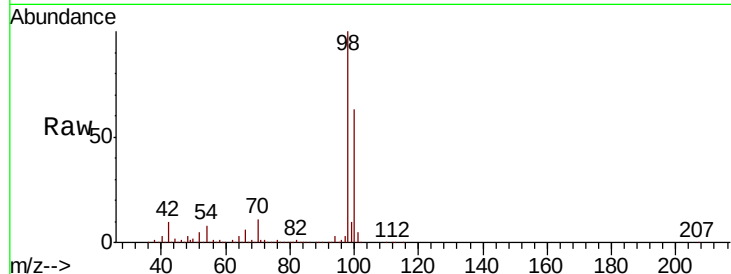




#50
Toluene-d8
Concen: 45.59 ug/l
RT: 10.09 min Scan# 2645
Delta R.T. 0.00 min
Lab File: VN050685.D
Acq: 16 Aug 2018 4:50

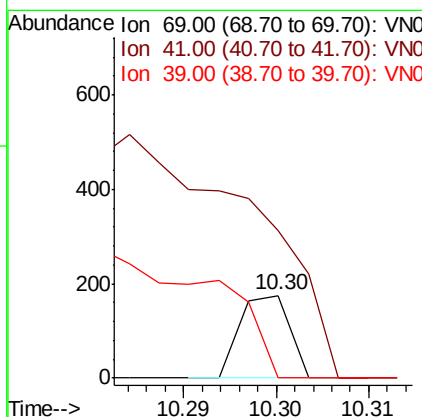
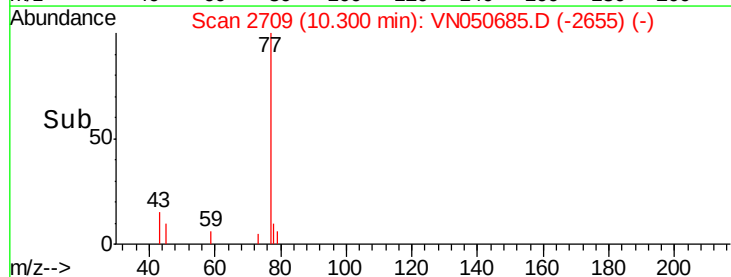
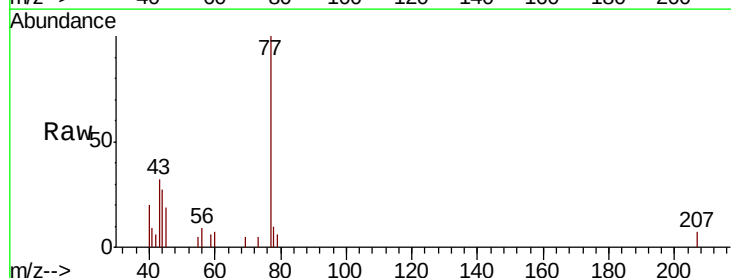
Instrument :
MSVOA_N
ClientSampled :
TP-6

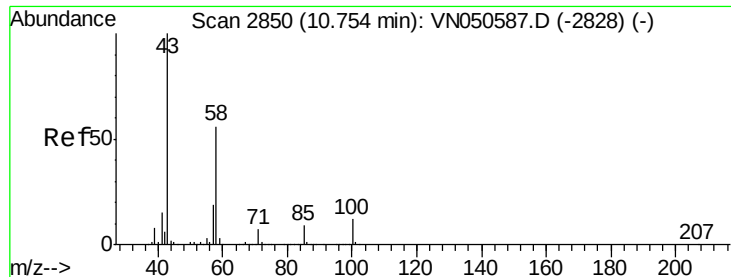
Tot Ion: 98 Resp: 1382302
Ion Ratio Lower Upper
98 100
100 63.4 51.8 77.8



#56
Ethyl methacrylate
Concen: 1.91 ug/l
RT: 10.30 min Scan# 2709
Delta R.T. -0.13 min
Lab File: VN050685.D
Acq: 16 Aug 2018 4:50

Tgt Ion: 69 Resp: 65
Ion Ratio Lower Upper
69 100
41 0.0 49.7 74.5#
39 0.0 24.2 36.2#

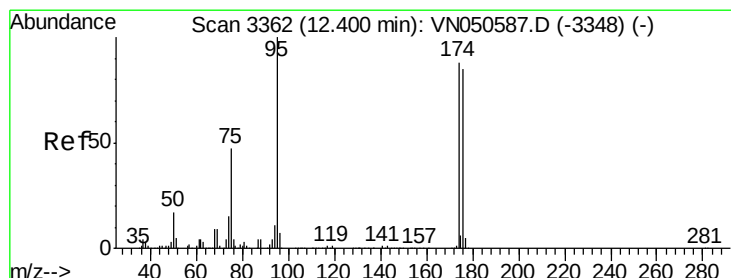
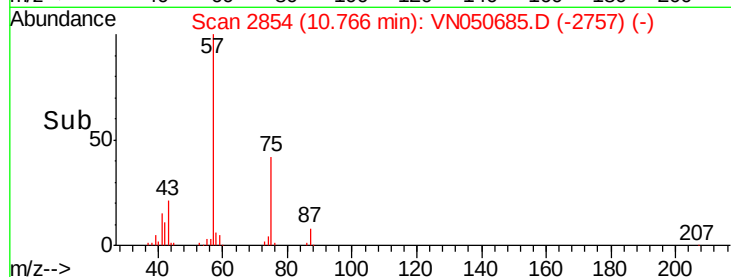
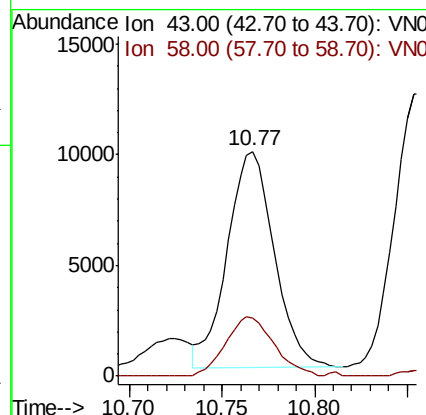
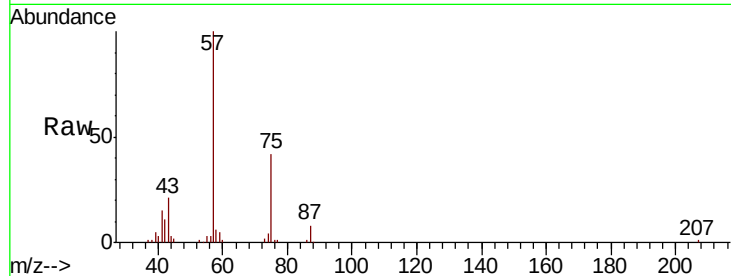




#59
2-Hexanone
Concen: 3.40 ug/l
RT: 10.77 min Scan# 2854
Delta R.T. 0.01 min
Lab File: VN050685.D
Acq: 16 Aug 2018 4:50

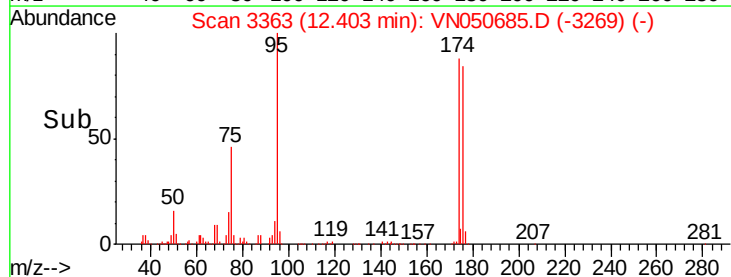
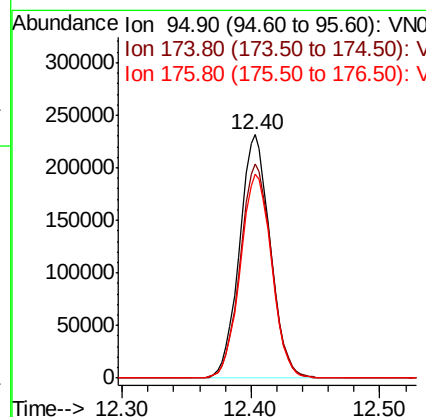
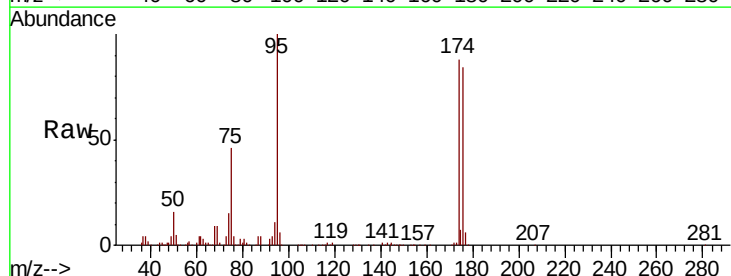
Instrument :
MSVOA_N
ClientSampled :
TP-6

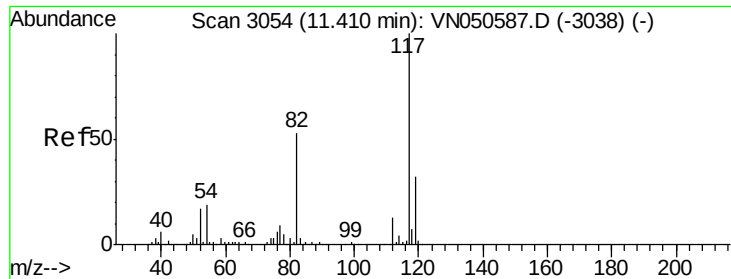
Tot Ion: 43 Resp: 17161
Ion Ratio Lower Upper
43 100
58 28.2 28.0 84.0



#62
4-Bromofluorobenzene
Concen: 38.19 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.00 min
Lab File: VN050685.D
Acq: 16 Aug 2018 4:50

Tgt Ion: 95 Resp: 382485
Ion Ratio Lower Upper
95 100
174 90.1 0.0 177.8
176 85.8 0.0 175.0

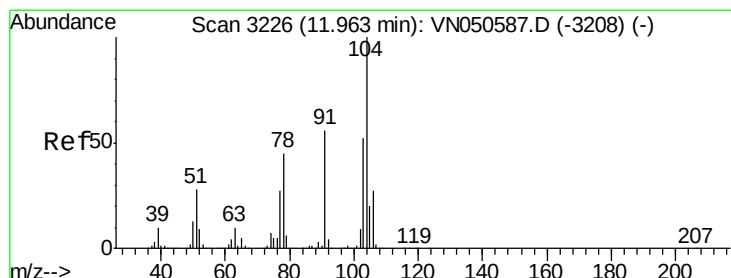
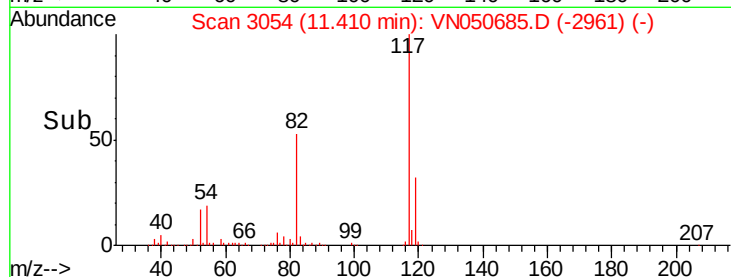
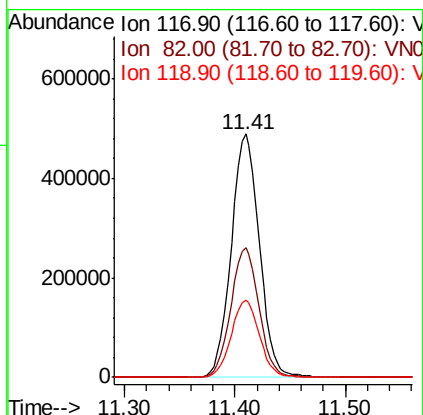
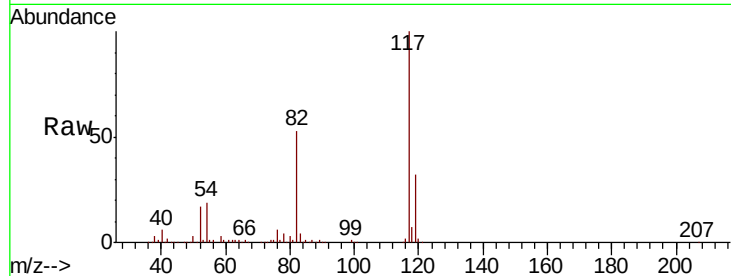




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. -0.00 min
Lab File: VN050685.D
Acq: 16 Aug 2018 4:50

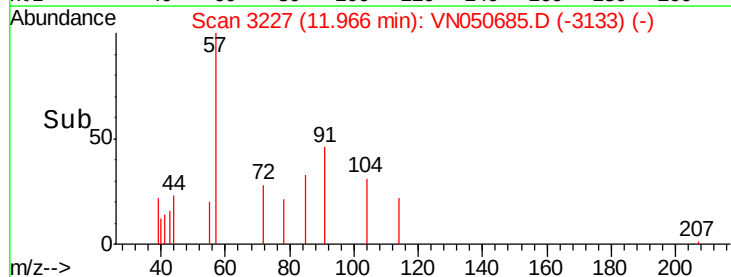
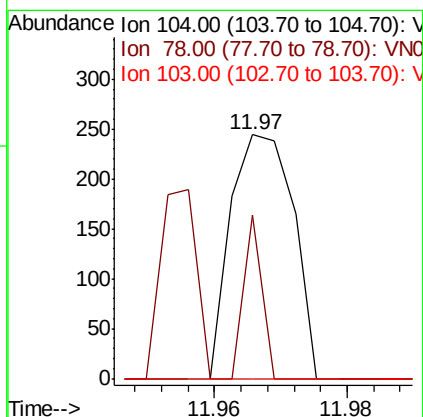
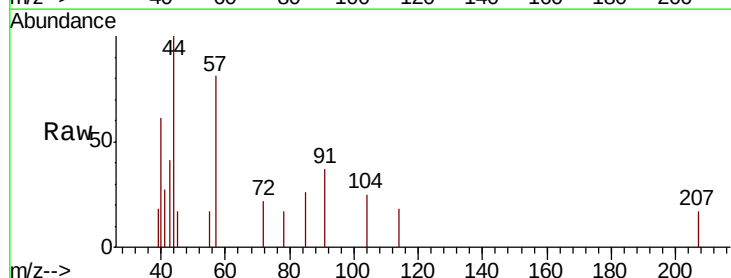
Instrument :
MSVOA_N
ClientSampled :
TP-6

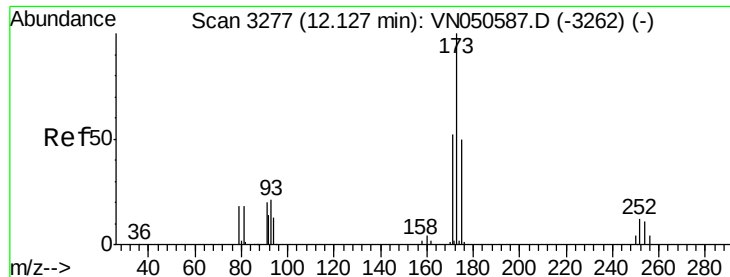
Tot Ion:117 Resp: 864330
Ion Ratio Lower Upper
117 100
82 53.1 42.4 63.6
119 31.9 25.8 38.8



#70
Styrene
Concen: 0.95 ug/l
RT: 11.97 min Scan# 3227
Delta R.T. 0.00 min
Lab File: VN050685.D
Acq: 16 Aug 2018 4:50

Tgt Ion:104 Resp: 160
Ion Ratio Lower Upper
104 100
78 20.0 39.1 58.7#
103 0.0 44.9 67.3#





#71

Bromoform

Concen: 0.42 ug/l

RT: 12.40 min Scan# 3362

Delta R.T. 0.27 min

Lab File: VN050685.D

Acq: 16 Aug 2018 4:50

Instrument :

MSVOA_N

ClientSampleId :

TP-6

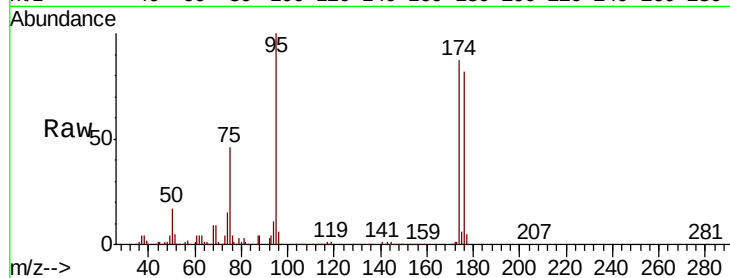
Tot Ion:173 Resp: 2224

Ion Ratio Lower Upper

173 100

175 929.1 24.4 73.2#

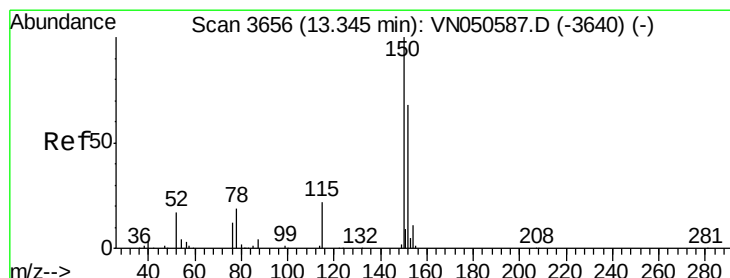
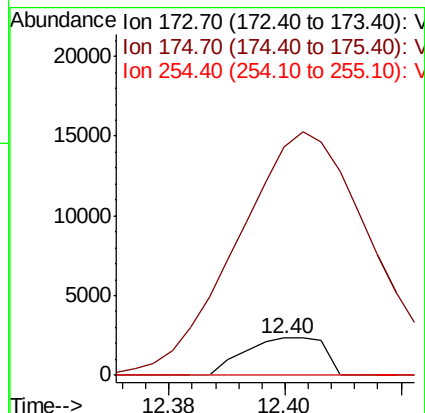
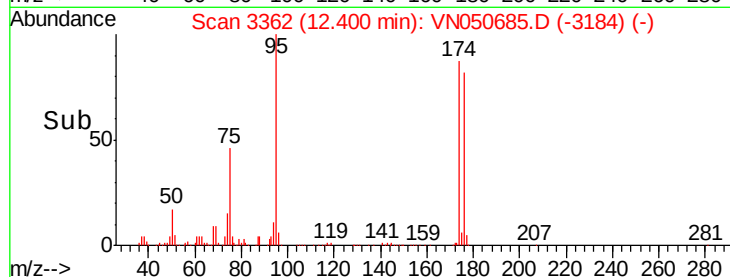
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): 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: VN050685.D

Acq: 16 Aug 2018 4:50

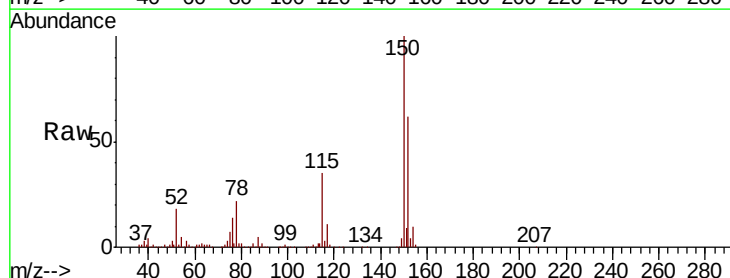
Tgt Ion:152 Resp: 309247

Ion Ratio Lower Upper

152 100

115 55.4 28.1 84.2

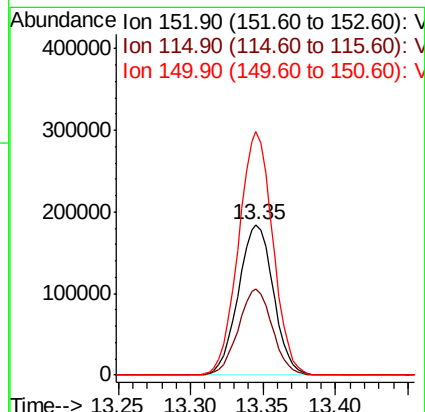
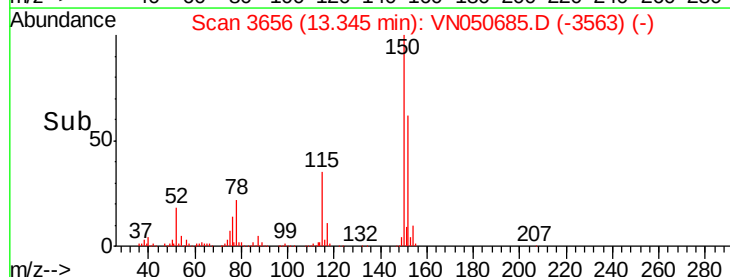
150 158.4 0.0 347.8

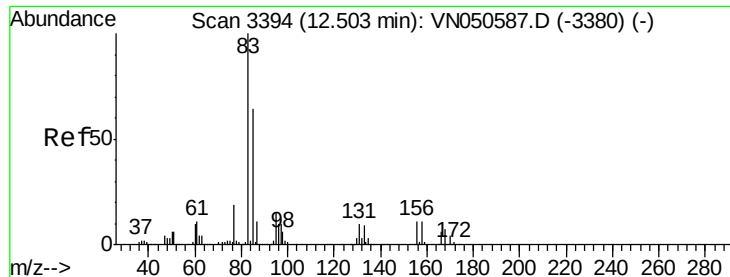


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.40 min Scan# 3361

Delta R.T. -0.11 min

Lab File: VN050685.D

Acq: 16 Aug 2018 4:50

Instrument :

MSVOA_N

ClientSampled :

TP-6

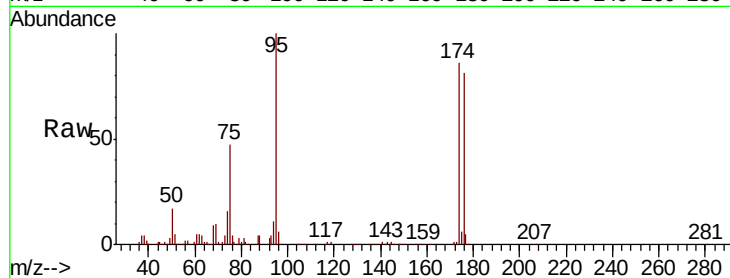
Tot Ion: 83 Resp: 122

Ion Ratio Lower Upper

83 100

131 325.4 5.3 15.9#

85 0.0 32.1 96.5#



Abundance Ion 82.90 (82.60 to 83.60): VNO

Ion 130.80 (130.50 to 131.50): VNO

Ion 84.90 (84.60 to 85.60): VNO

400

300

200

100

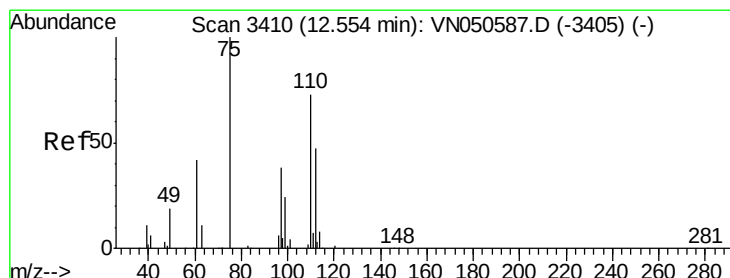
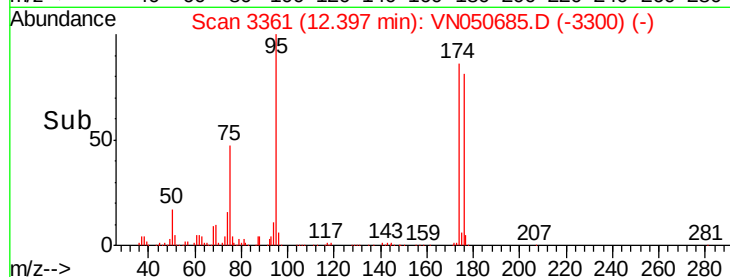
0

12.38

12.40

12.42

Time-->



#76

1,2,3-Trichloropropane

Concen: 36.05 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050685.D

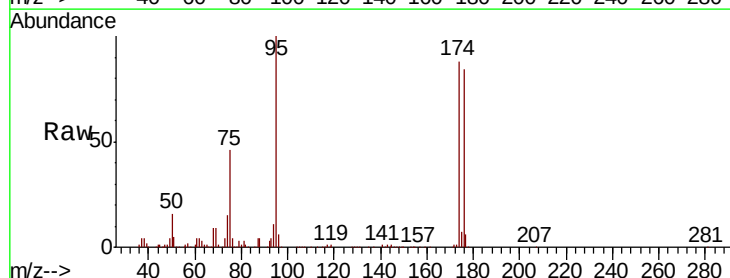
Acq: 16 Aug 2018 4:50

Tgt Ion: 75 Resp: 181569

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO

120000

100000

80000

60000

40000

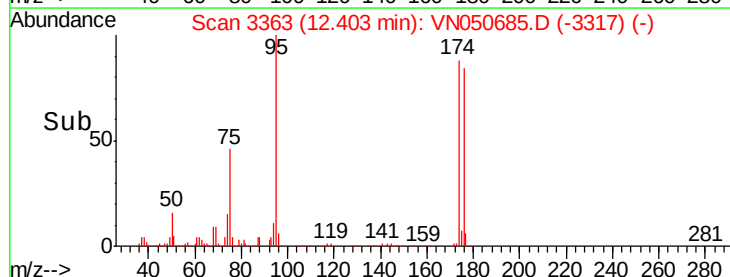
20000

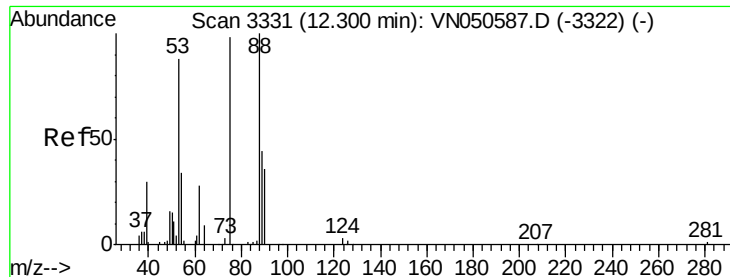
0

12.40

12.50

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 130.53 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050685.D

Acq: 16 Aug 2018 4:50

Instrument :

MSVOA_N

ClientSampleId :

TP-6

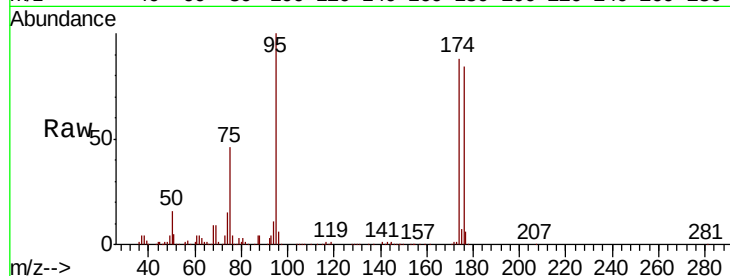
Tot Ion: 75 Resp: 181569

Ion Ratio Lower Upper

75 100

53 0.1 72.2 108.2#

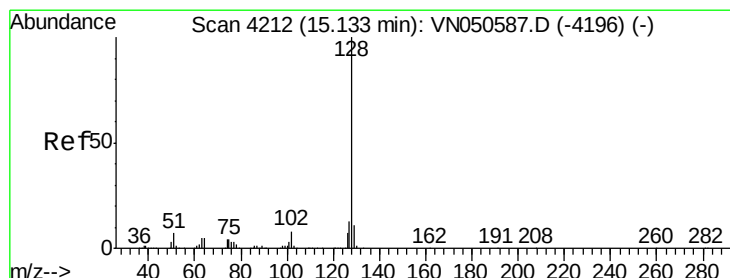
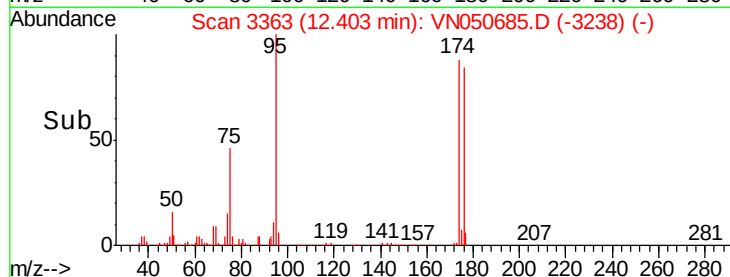
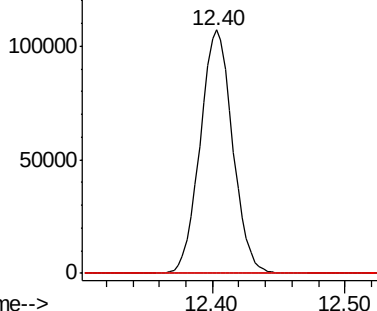
89 0.0 36.3 54.5#



Abundance Ion 74.90 (74.60 to 75.60): VN050587.D (-3322) (-)

Ion 53.00 (52.70 to 53.70): VN050587.D (-3322) (-)

Ion 88.90 (88.60 to 89.60): VN050587.D (-3322) (-)



#95

Naphthalene

Concen: 5.77 ug/l

RT: 15.14 min Scan# 4213

Delta R.T. 0.00 min

Lab File: VN050685.D

Acq: 16 Aug 2018 4:50

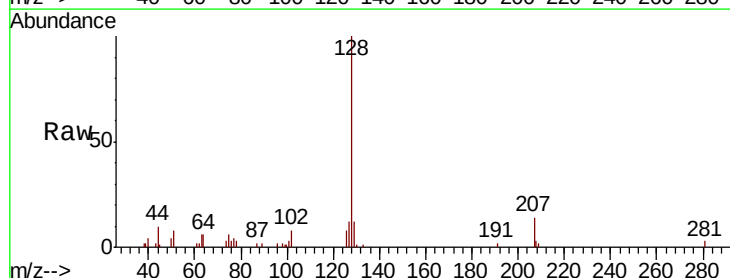
Tgt Ion:128 Resp: 24619

Ion Ratio Lower Upper

128 100

127 12.5 10.3 15.5

129 12.3 8.5 12.7



Abundance Ion 128.00 (127.70 to 128.70): VN050587.D (-4196) (-)

Ion 127.00 (126.70 to 127.70): VN050587.D (-4196) (-)

Ion 129.00 (128.70 to 129.70): VN050587.D (-4196) (-)

