

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081518\
 Data File : VN050660.D
 Acq On : 15 Aug 2018 17:17
 Operator : MD\SY
 Sample : PB1112055TB
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB1112055TB

Quant Time: Aug 16 01:31:06 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	608580	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1006530	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	873999	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	311930	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	422959	55.14	ug/l	0.00
Spiked Amount			Recovery	=	110.28%	
35) Dibromofluoromethane	7.59	113	394083	49.04	ug/l	0.00
Spiked Amount			Recovery	=	98.08%	
50) Toluene-d8	10.09	98	1378661	45.59	ug/l	0.00
Spiked Amount			Recovery	=	91.18%	
62) 4-Bromofluorobenzene	12.40	95	382116	38.25	ug/l	0.00
Spiked Amount			Recovery	=	76.50%	

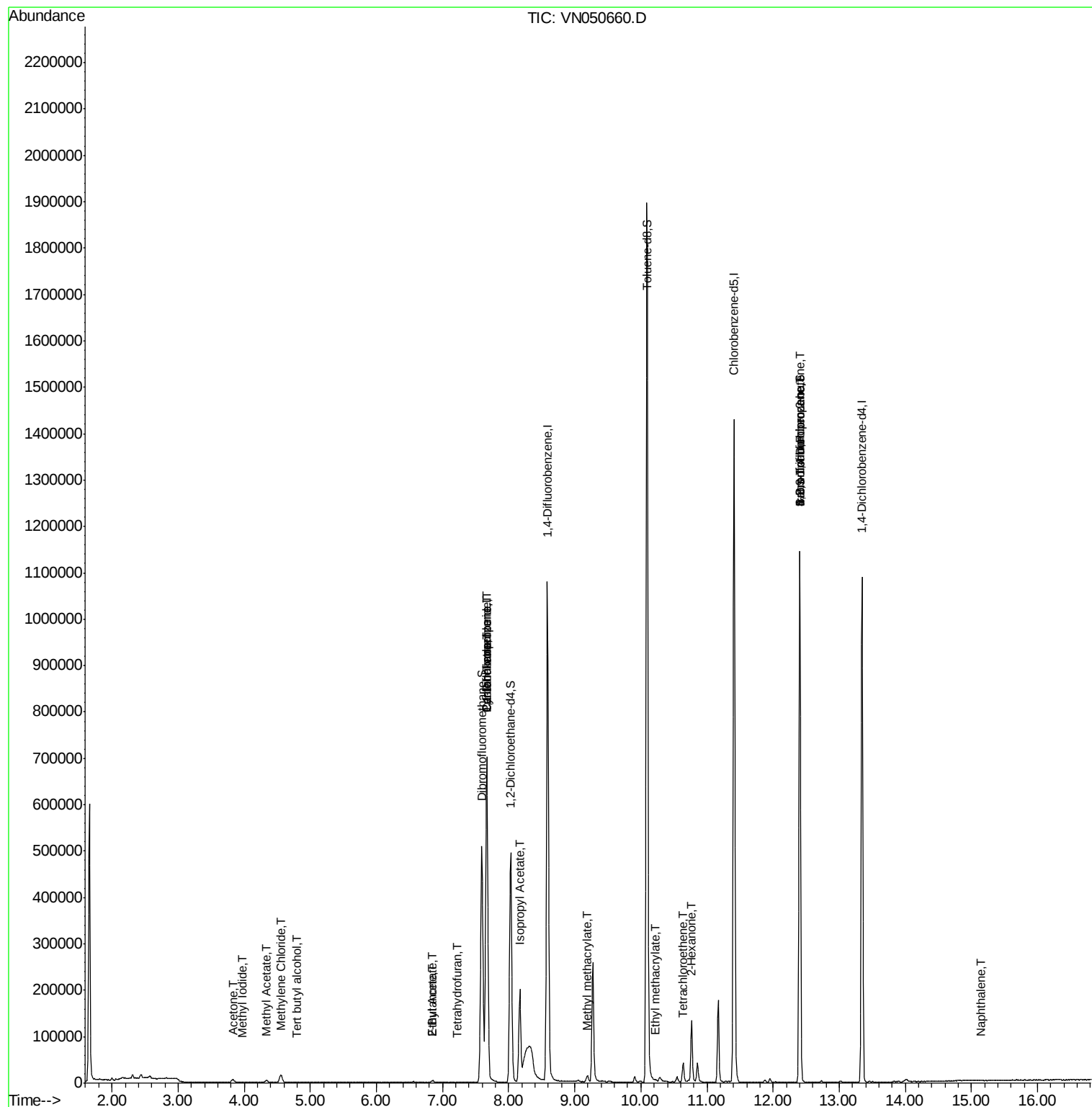
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	2353	Below Cal		99
5) Bromomethane	2.57	94	2698	Below Cal		97
6) Chloroethane	2.70	64	74	Below Cal	#	43
10) Methyl Iodide	3.96	142	499	7.03	ug/l #	58
11) Tert butyl alcohol	4.79	59	333	0.79	ug/l #	72
16) Acetone	3.83	43	11592	4.63	ug/l	100
18) Methyl Acetate	4.34	43	8428	0.58	ug/l	100
20) Methylene Chloride	4.55	84	12697	0.48	ug/l	94
25) 2-Butanone	6.85	43	6826	2.17	ug/l	98
29) Tetrahydrofuran	7.22	42	414	0.25	ug/l #	48
31) Cyclohexane	7.66	56	10527	0.56	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	41624	3.71	ug/l #	49
37) Ethyl Acetate	6.85	43	6826	1.08	ug/l #	67
38) Carbon Tetrachloride	7.67	117	53723	4.62	ug/l #	17
43) Isopropyl Acetate	8.17	43	227589	19.72	ug/l	98
48) Methyl methacrylate	9.18	41	8061	1.39	ug/l #	23
56) Ethyl methacrylate	10.23	69	2393	2.14	ug/l #	60
59) 2-Hexanone	10.77	43	20445	4.06	ug/l #	61
64) Tetrachloroethene	10.64	164	2001	0.25	ug/l #	85
71) Bromoform	12.40	173	3492	0.65	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.40	83	189	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	183347	36.09	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	183347	130.68	ug/l #	13
95) Naphthalene	15.14	128	196	3.88	ug/l #	69

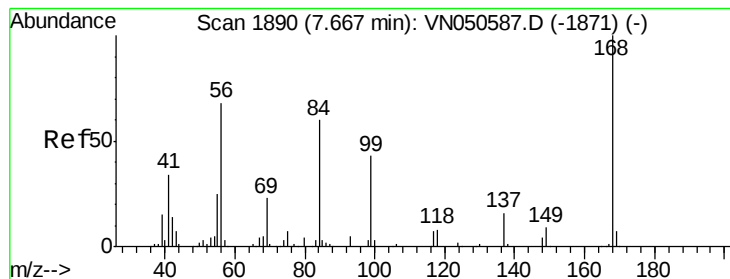
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Aug 16 01:31:06 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N081418W.M
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: VN050660.D

Acq: 15 Aug 2018 17:17

Instrument :

MSVOA_N

ClientSampleId :

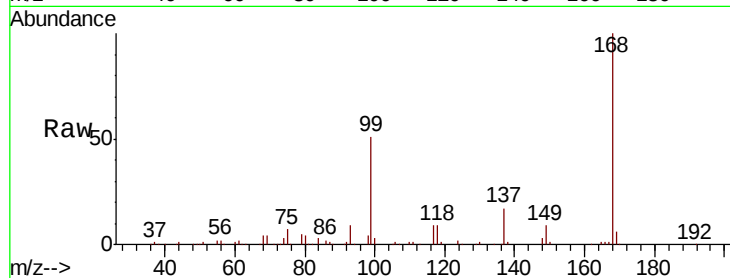
PB1112055TB

Tot Ion:168 Resp: 608580

Ion Ratio Lower Upper

168 100

99 50.7 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

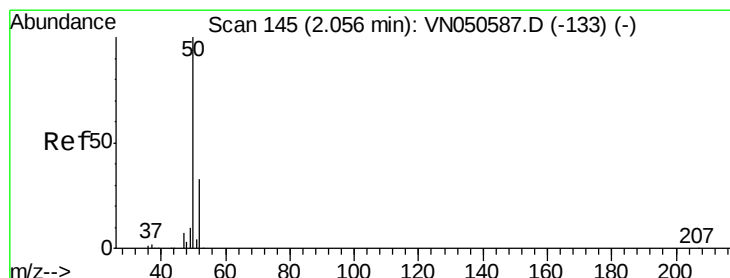
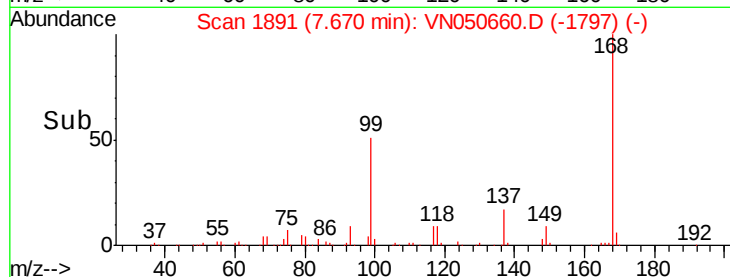
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 2.06 min Scan# 145

Delta R.T. 0.00 min

Lab File: VN050660.D

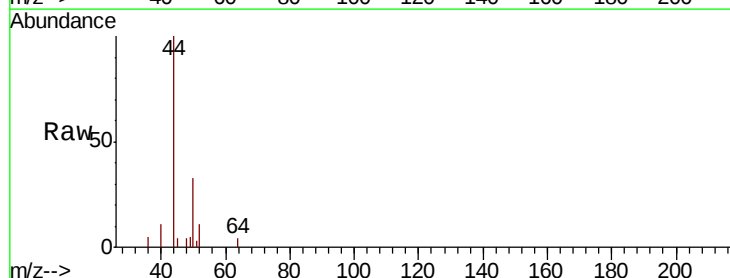
Acq: 15 Aug 2018 17:17

Tgt Ion: 50 Resp: 2353

Ion Ratio Lower Upper

50 100

52 32.9 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) (-)

2.06

2000

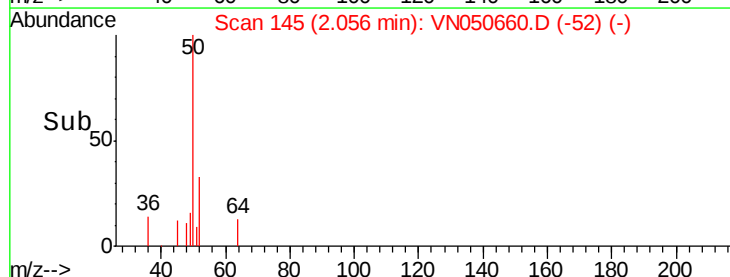
1500

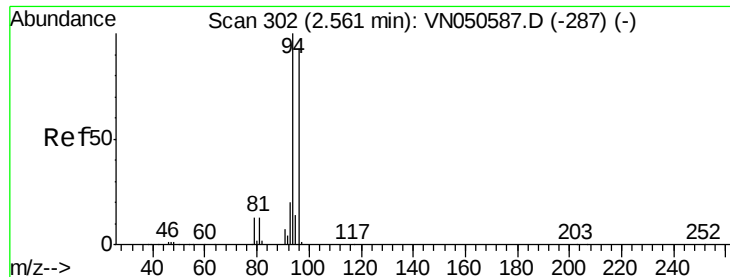
1000

500

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 306

Delta R.T. 0.01 min

Lab File: VN050660.D

Acq: 15 Aug 2018 17:17

Instrument :

MSVOA_N

ClientSampleId :

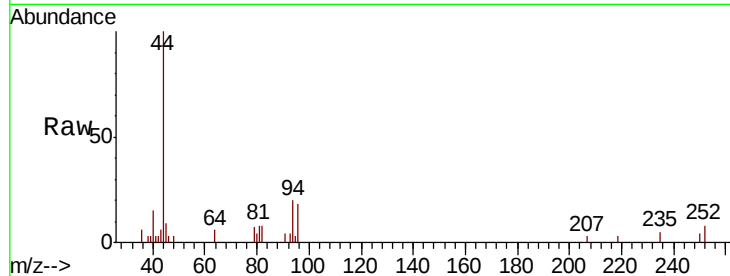
PB1112055TB

Tot Ion: 94 Resp: 2698

Ion Ratio Lower Upper

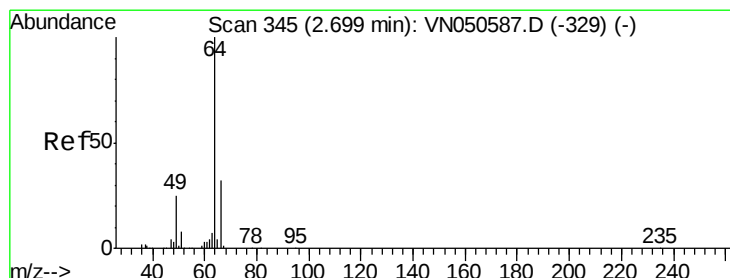
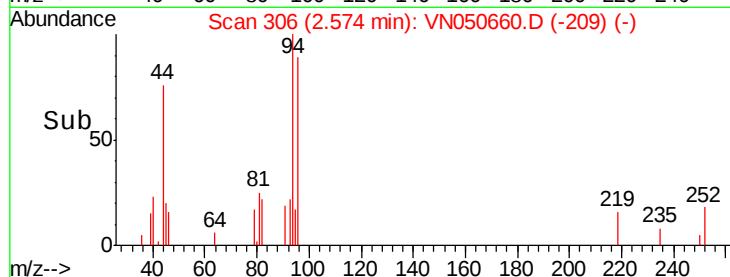
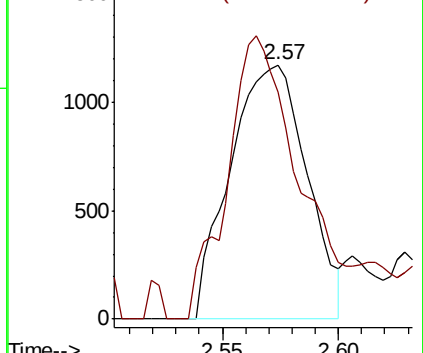
94 100

96 89.4 74.0 111.0



Abundance Ion 93.90 (93.60 to 94.60): VN050587.D (-287) (-)

Ion 95.90 (95.60 to 96.60): VN050587.D (-287) (-)



#6

Chloroethane

Concen: Below Cal

RT: 2.70 min Scan# 345

Delta R.T. 0.00 min

Lab File: VN050660.D

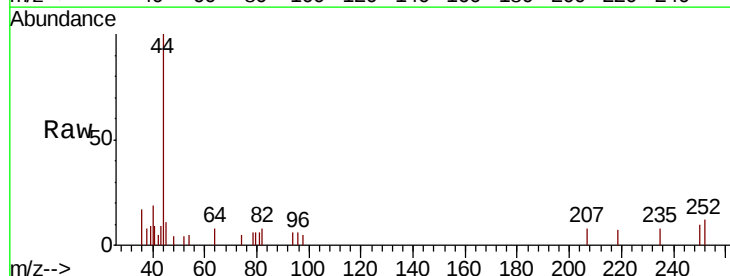
Acq: 15 Aug 2018 17:17

Tgt Ion: 64 Resp: 74

Ion Ratio Lower Upper

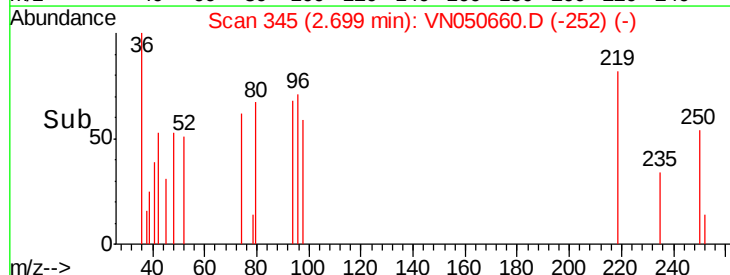
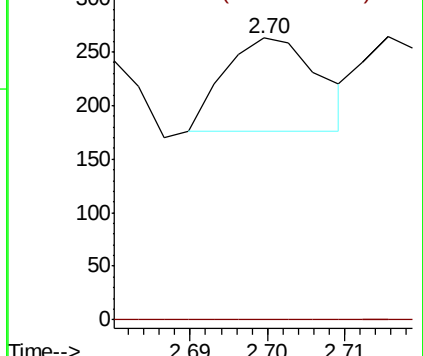
64 100

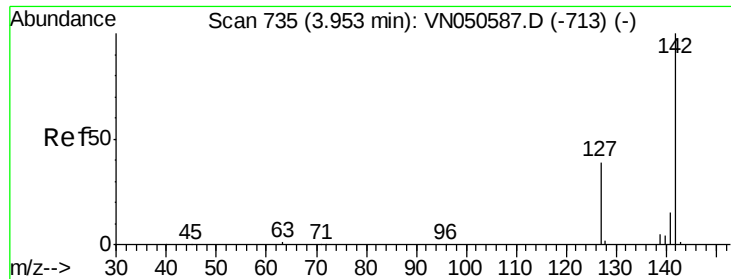
66 0.0 25.7 38.5#



Abundance Ion 63.90 (63.60 to 64.60): VN050587.D (-329) (-)

Ion 65.90 (65.60 to 66.60): VN050587.D (-329) (-)

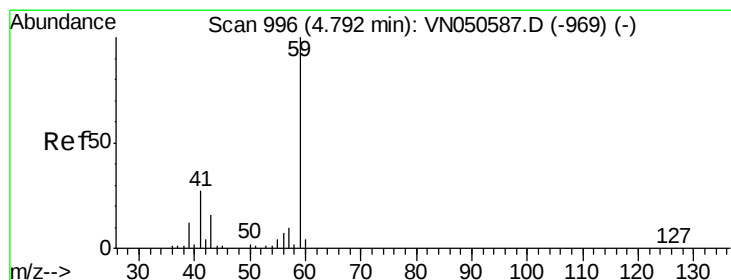
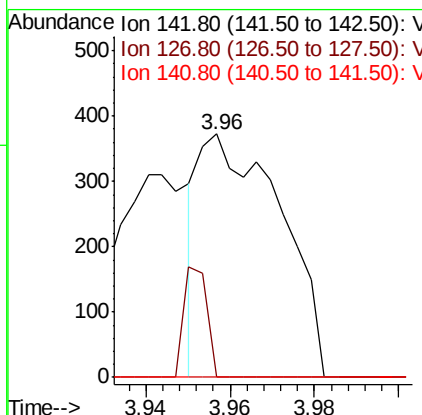
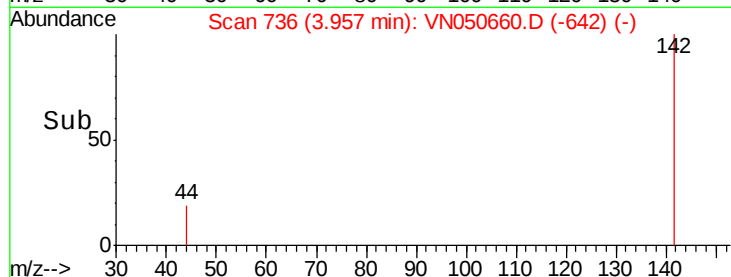
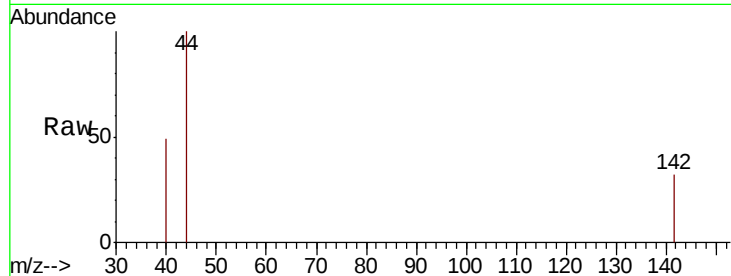




#10
Methvl Iodide
Concen: 7.03 ug/l
RT: 3.96 min Scan# 736
Delta R.T. 0.00 min
Lab File: VN050660.D
Acq: 15 Aug 2018 17:17

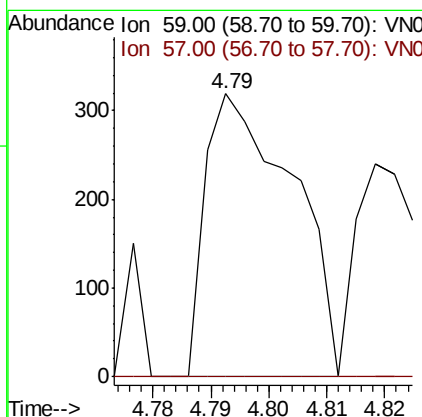
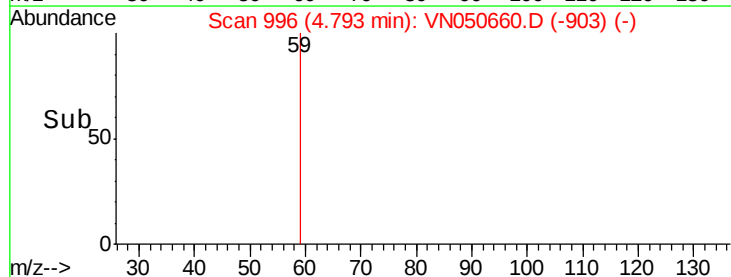
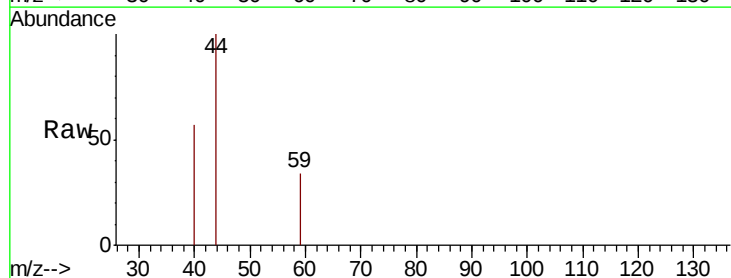
Instrument :
MSVOA_N
ClientSampleId :
PB1112055TB

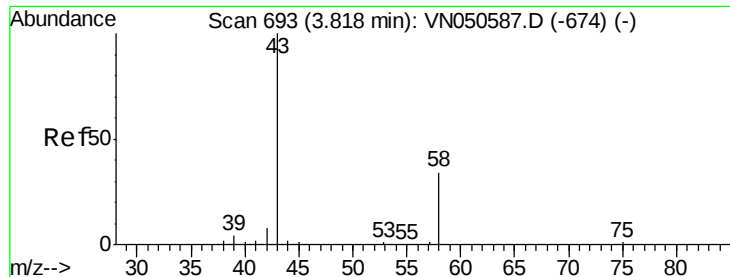
Tot Ion:142 Resp: 499
Ion Ratio Lower Upper
142 100
127 12.8 32.6 49.0#
141 0.0 11.5 17.3#



#11
Tert butyl alcohol
Concen: 0.79 ug/l
RT: 4.79 min Scan# 996
Delta R.T. 0.00 min
Lab File: VN050660.D
Acq: 15 Aug 2018 17:17

Tgt Ion: 59 Resp: 333
Ion Ratio Lower Upper
59 100
57 0.0 8.4 12.6#





#16

Acetone

Concen: 4.63 ug/l

RT: 3.83 min Scan# 697

Delta R.T. 0.01 min

Lab File: VN050660.D

Acq: 15 Aug 2018 17:17

Instrument :

MSVOA_N

ClientSampleId :

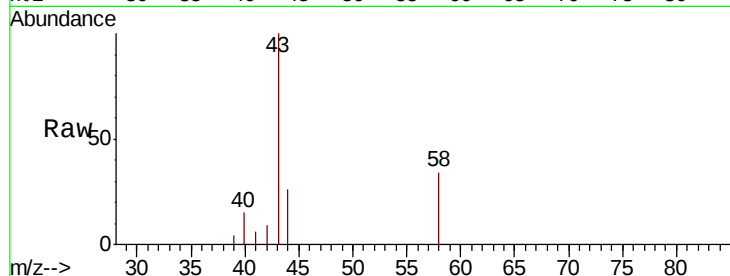
PB1112055TB

Tot Ion: 43 Resp: 11592

Ion Ratio Lower Upper

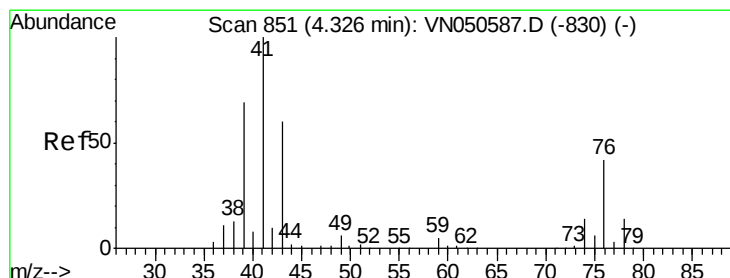
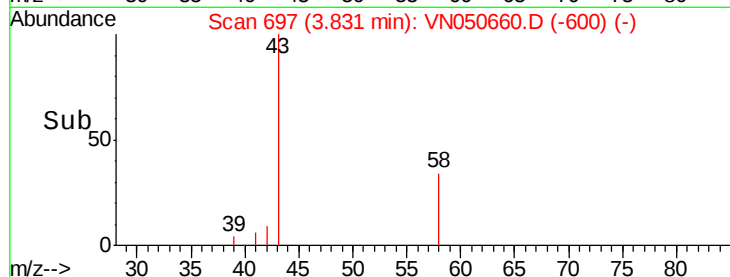
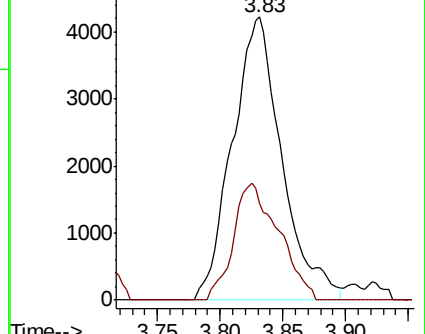
43 100

58 34.1 27.1 40.7



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: 0.58 ug/l

RT: 4.34 min Scan# 855

Delta R.T. 0.01 min

Lab File: VN050660.D

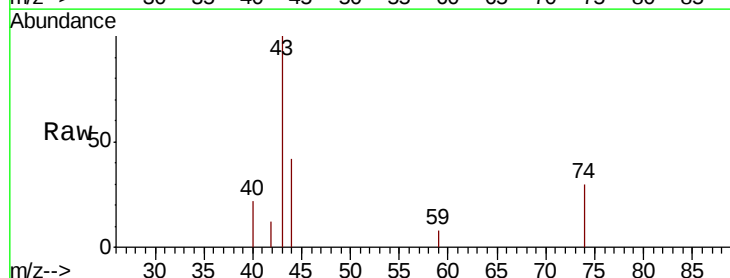
Acq: 15 Aug 2018 17:17

Tgt Ion: 43 Resp: 8428

Ion Ratio Lower Upper

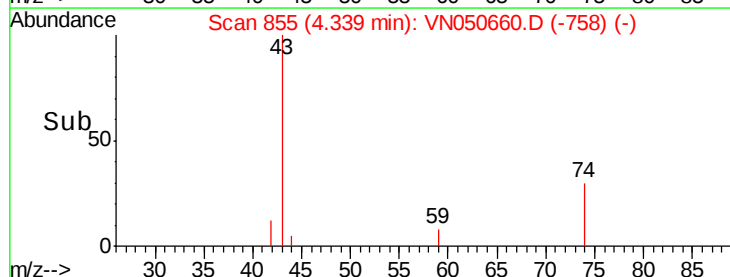
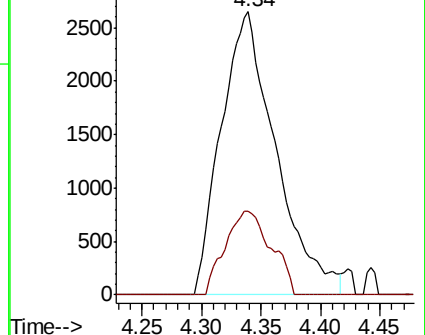
43 100

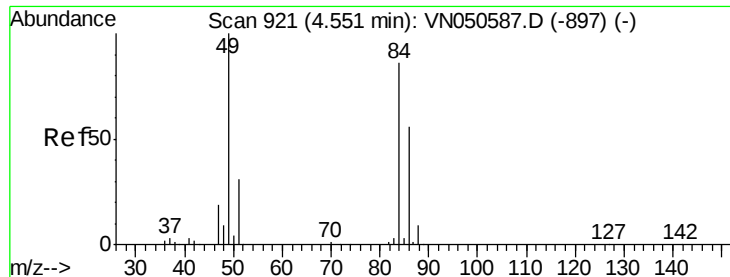
74 24.8 19.7 29.5



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

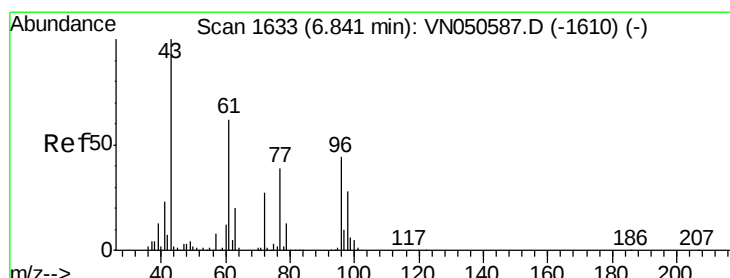
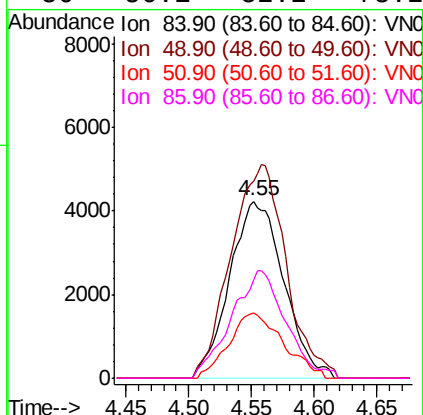
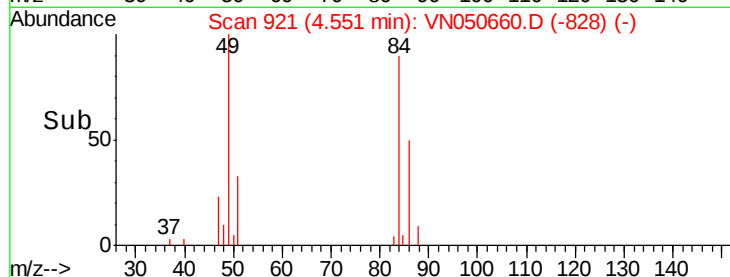
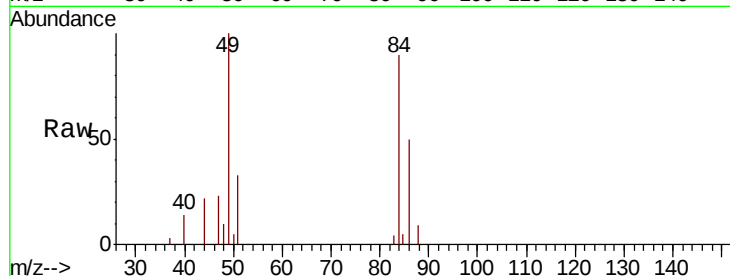




#20
Methvlene Chloride
Concen: 0.48 ug/l
RT: 4.55 min Scan# 921
Delta R.T. 0.00 min
Lab File: VN050660.D
Acq: 15 Aug 2018 17:17

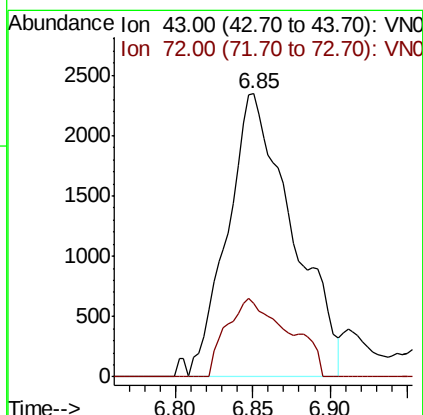
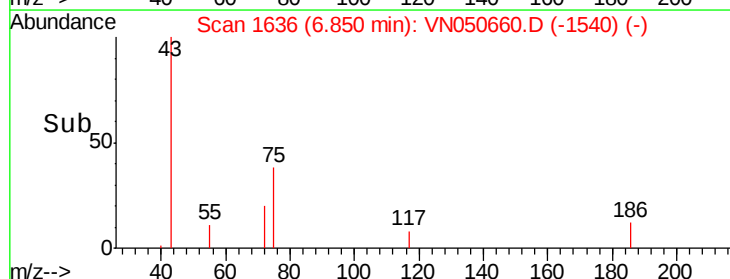
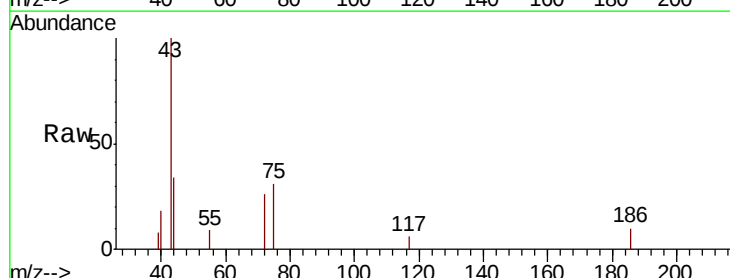
Instrument :
MSVOA_N
ClientSampleId :
PB1112055TB

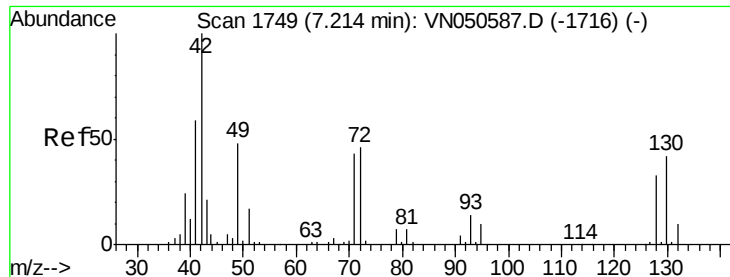
Tot Ion:	84	Resp:	12697
Ion	Ratio	Lower	Upper
84	100		
49	111.7	92.6	138.8
51	36.8	28.6	43.0
86	56.1	52.2	78.2



#25
2-Butanone
Concen: 2.17 ug/l
RT: 6.85 min Scan# 1636
Delta R.T. 0.01 min
Lab File: VN050660.D
Acq: 15 Aug 2018 17:17

Tgt Ion:	43	Resp:	6826
Ion	Ratio	Lower	Upper
43	100		
72	26.0	21.8	32.6





#29

Tetrahydrofuran

Concen: 0.25 ug/l

RT: 7.22 min Scan# 1750

Delta R.T. 0.00 min

Lab File: VN050660.D

Acq: 15 Aug 2018 17:17

Instrument :

MSVOA_N

ClientSampleId :

PB1112055TB

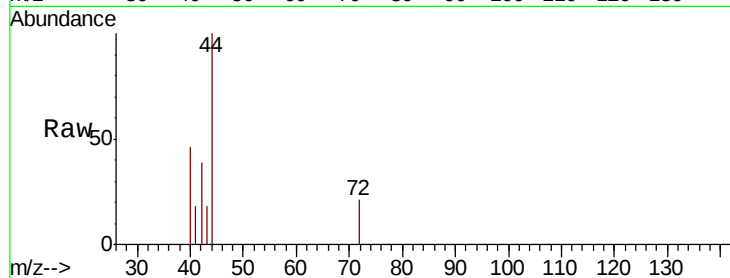
Tot Ion: 42 Resp: 414

Ion Ratio Lower Upper

42 100

72 70.5 35.8 53.6#

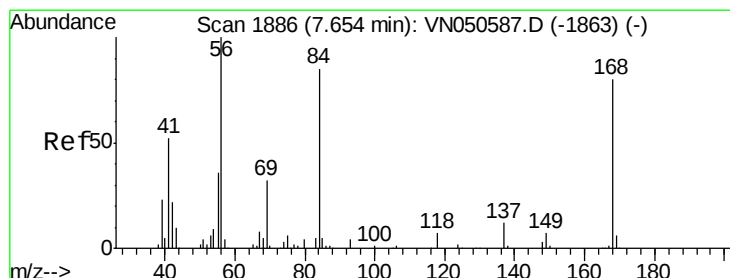
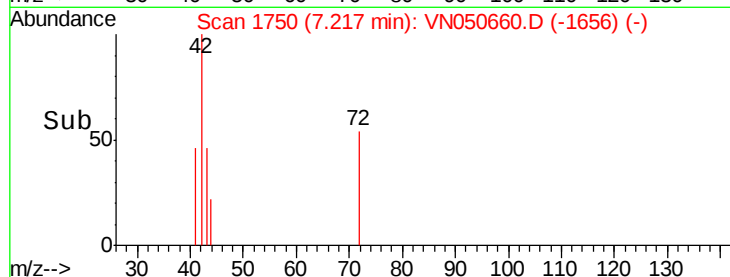
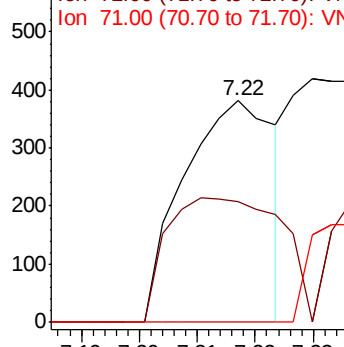
71 0.0 33.4 50.0#



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0



#31

Cyclohexane

Concen: 0.56 ug/l

RT: 7.66 min Scan# 1889

Delta R.T. 0.01 min

Lab File: VN050660.D

Acq: 15 Aug 2018 17:17

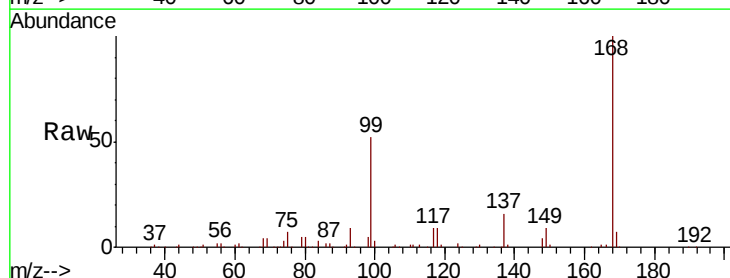
Tgt Ion: 56 Resp: 10527

Ion Ratio Lower Upper

56 100

69 206.6 25.8 38.6#

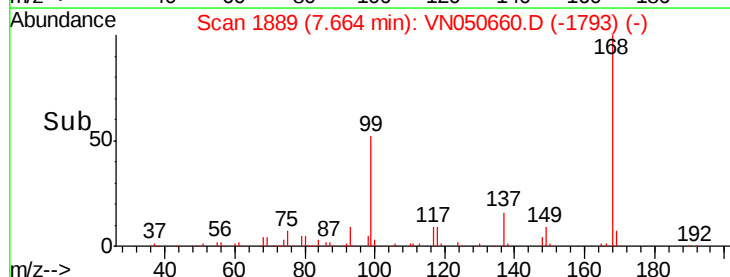
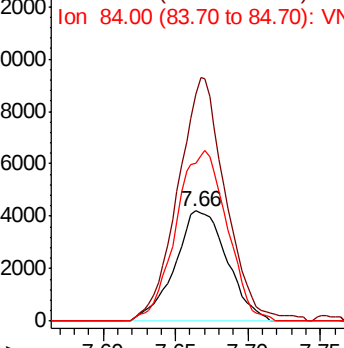
84 143.8 67.8 101.6#

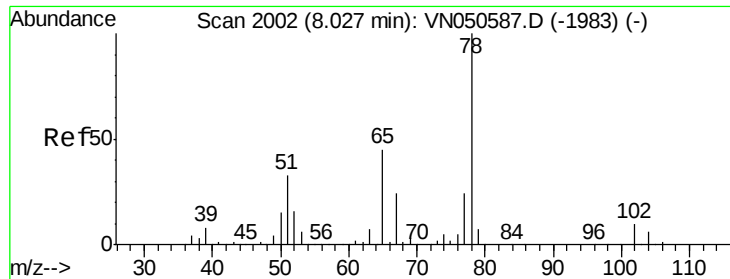


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

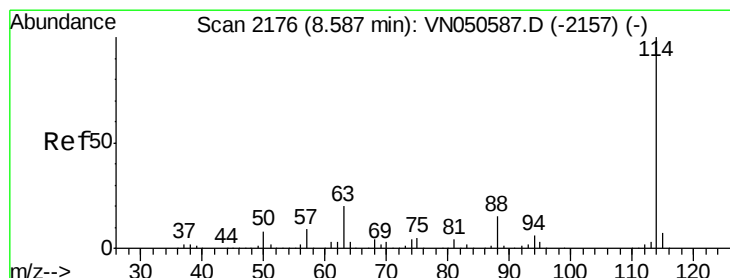
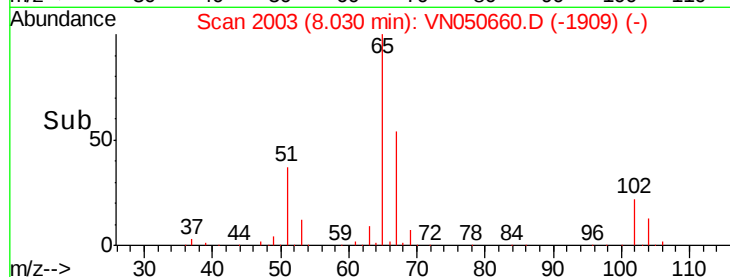
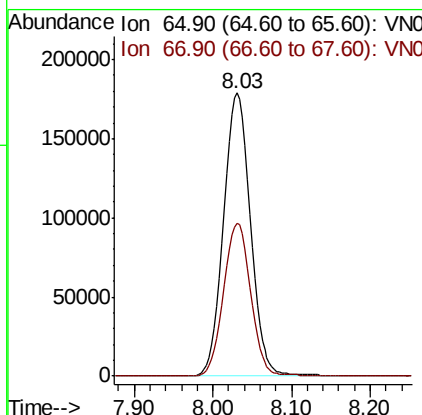
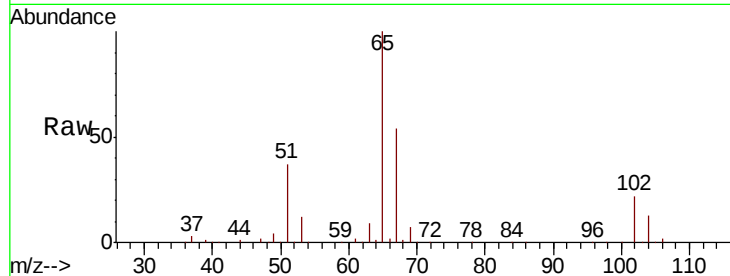




#33
 1,2-Dichloroethane-d4
 Concen: 55.14 ug/l
 RT: 8.03 min Scan# 2003
 Delta R.T. 0.00 min
 Lab File: VN050660.D
 Acq: 15 Aug 2018 17:17

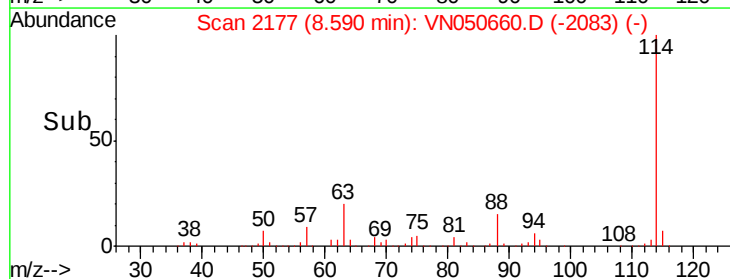
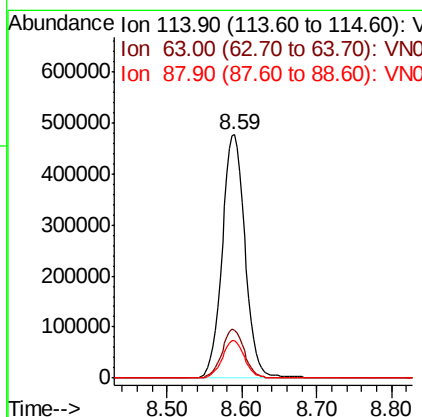
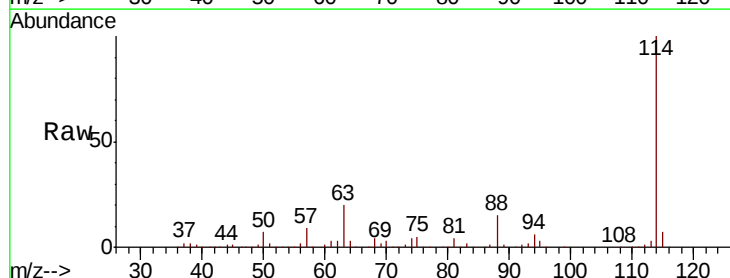
Instrument :
 MSVOA_N
 ClientSampleId :
 PB1112055TB

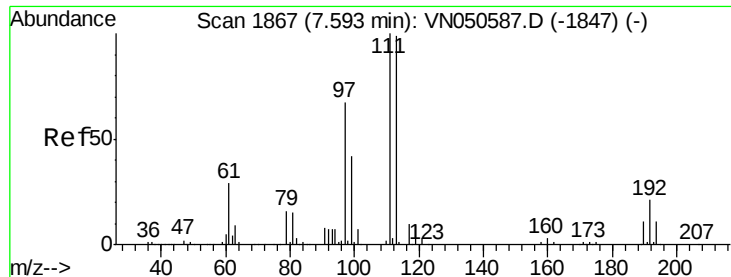
Tot Ion: 65 Resp: 422959
 Ion Ratio Lower Upper
 65 100
 67 54.3 0.0 109.8



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VN050660.D
 Acq: 15 Aug 2018 17:17

Tgt Ion: 114 Resp: 1006530
 Ion Ratio Lower Upper
 114 100
 63 19.8 0.0 40.0
 88 15.2 0.0 30.8

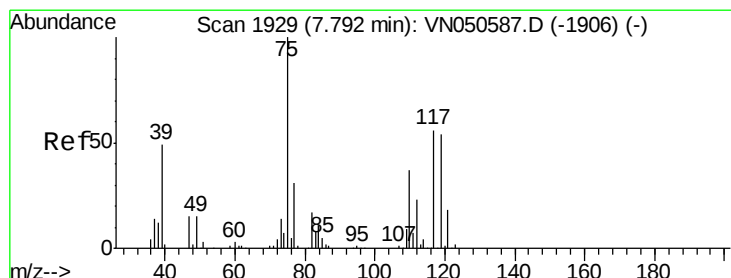
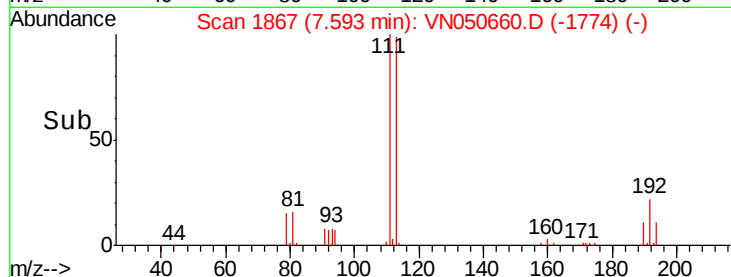
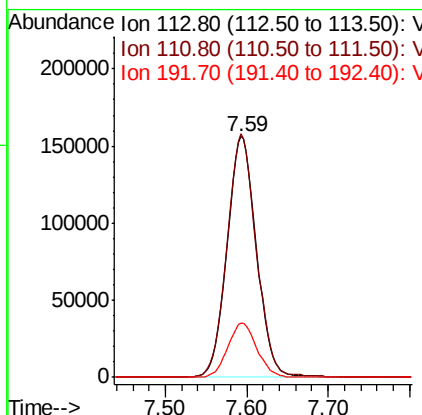
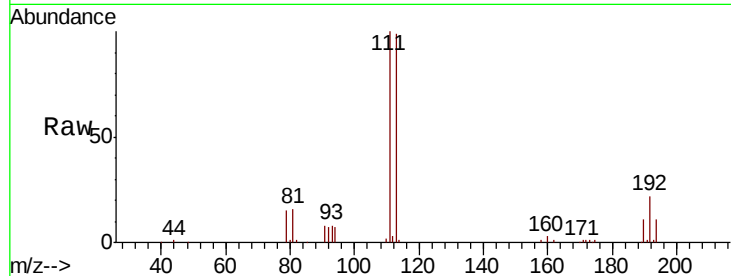




#35
Dibromofluoromethane
Concen: 49.04 ug/l
RT: 7.59 min Scan# 1867
Delta R.T. 0.00 min
Lab File: VN050660.D
Acq: 15 Aug 2018 17:17

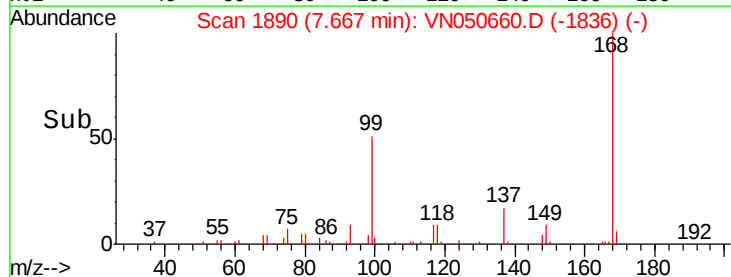
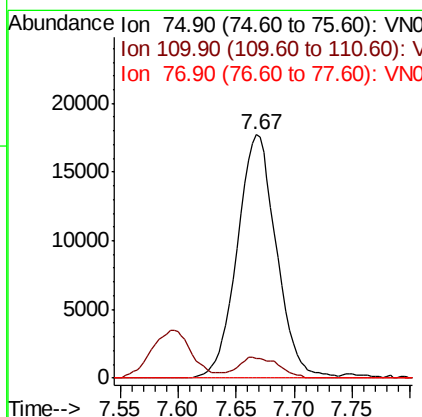
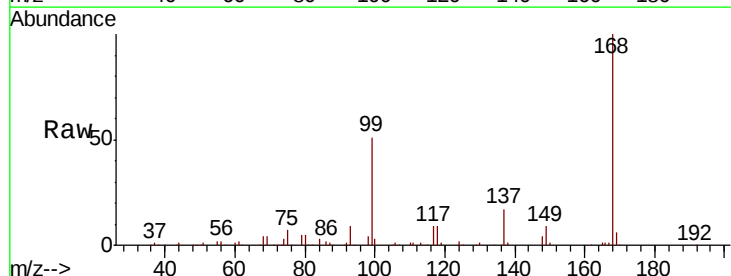
Instrument :
MSVOA_N
ClientSampleId :
PB1112055TB

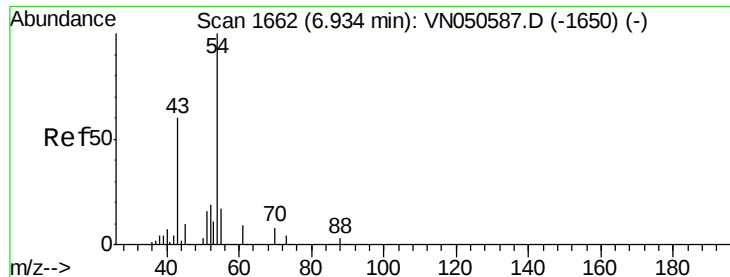
Tot Ion	Ratio	Lower	Upper
113	100		
111	100.9	81.0	121.6
192	22.3	17.6	26.4



#36
1,1-Dichloropropene
Concen: 3.71 ug/l
RT: 7.67 min Scan# 1890
Delta R.T. -0.13 min
Lab File: VN050660.D
Acq: 15 Aug 2018 17:17

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.9	18.3	54.9#
77	0.0	25.0	37.4#

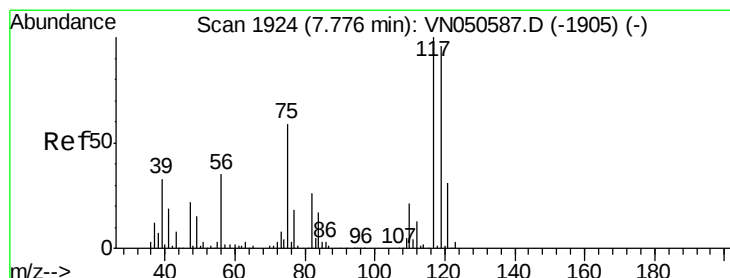
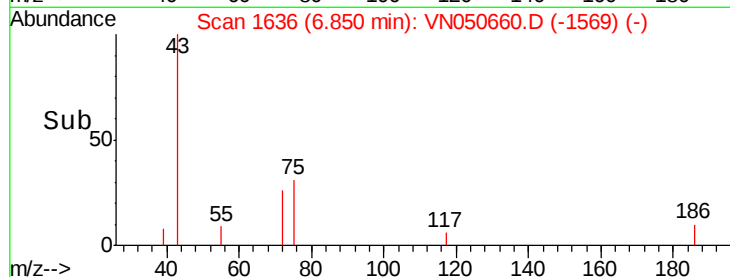
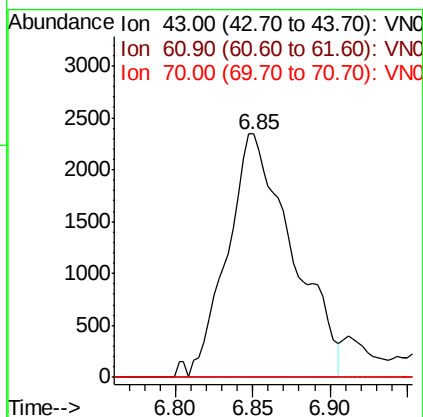
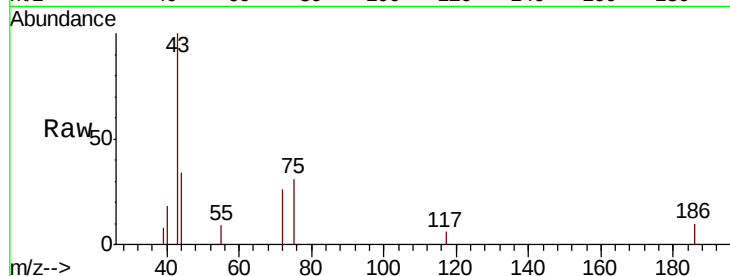




#37
Ethyl Acetate
Concen: 1.08 ug/l
RT: 6.85 min Scan# 1636
Delta R.T. -0.08 min
Lab File: VN050660.D
Acq: 15 Aug 2018 17:17

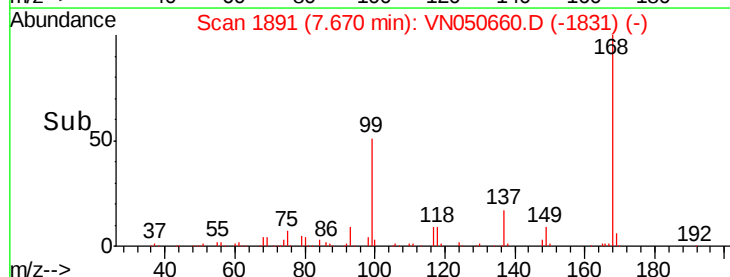
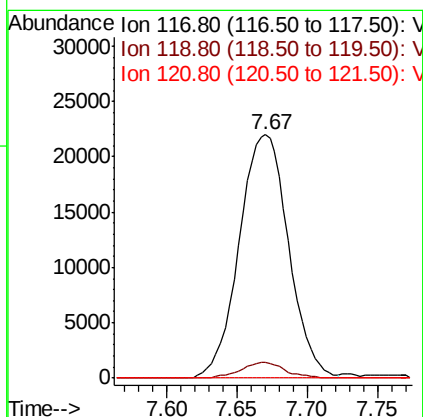
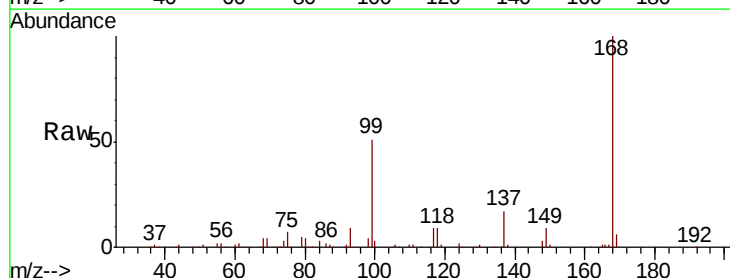
Instrument :
MSVOA_N
ClientSampleId :
PB1112055TB

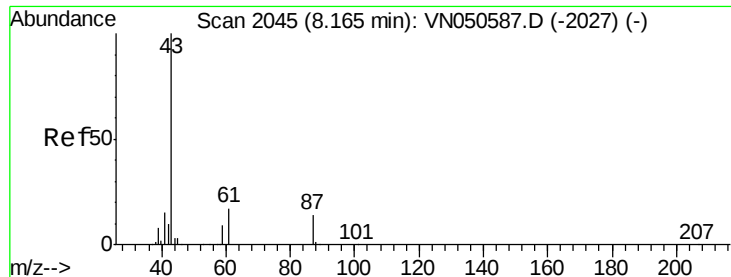
Tot Ion: 43 Resp: 6826
Ion Ratio Lower Upper
43 100
61 0.0 12.0 18.0#
70 0.0 8.5 12.7#



#38
Carbon Tetrachloride
Concen: 4.62 ug/l
RT: 7.67 min Scan# 1891
Delta R.T. -0.11 min
Lab File: VN050660.D
Acq: 15 Aug 2018 17:17

Tgt Ion: 117 Resp: 53723
Ion Ratio Lower Upper
117 100
119 6.5 76.6 115.0#
121 0.0 25.0 37.6#



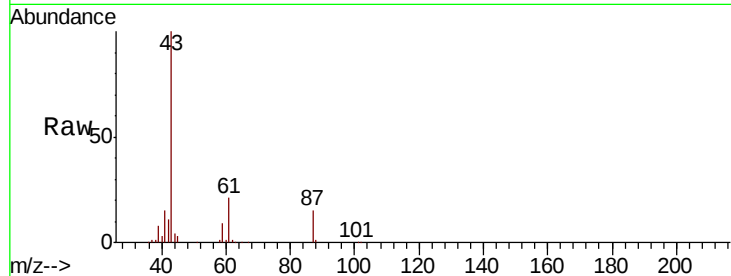


#43

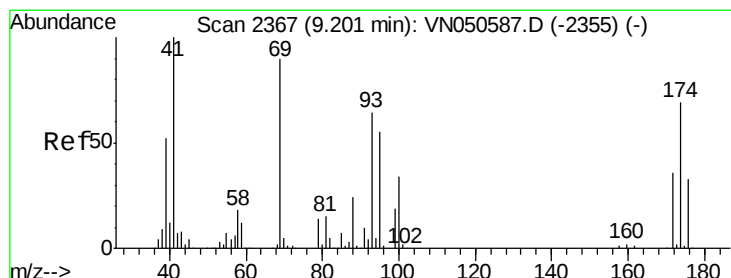
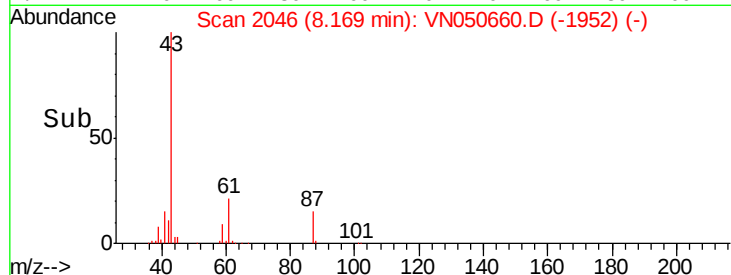
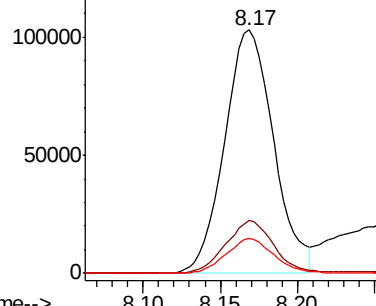
Isopropyl Acetate
 Concen: 19.72 ug/l
 RT: 8.17 min Scan# 2046
 Delta R.T. 0.00 min
 Lab File: VN050660.D
 Acq: 15 Aug 2018 17:17

Instrument :
 MSVOA_N
 ClientSampleId :
 PB1112055TB

Tot Ion	Ratio	Lower	Upper
43	100		
61	21.2	16.2	24.2
87	14.0	10.9	16.3



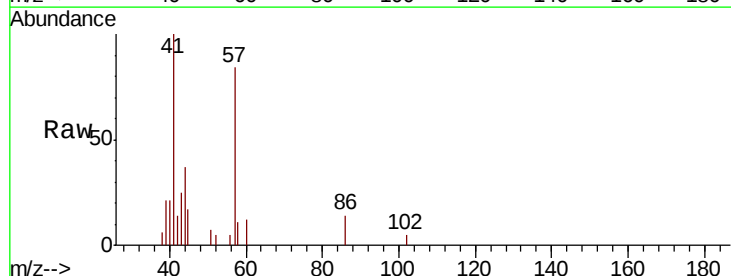
Abundance Ion 43.00 (42.70 to 43.70): VNC
 Ion 61.00 (60.70 to 61.70): VNC
 Ion 87.00 (86.70 to 87.70): VNC



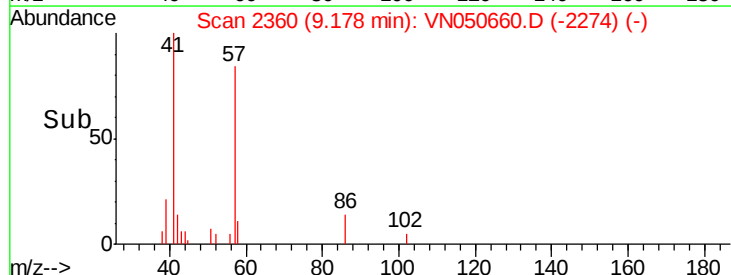
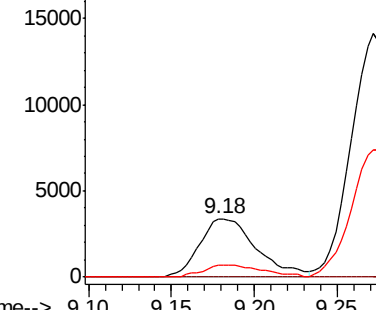
#48

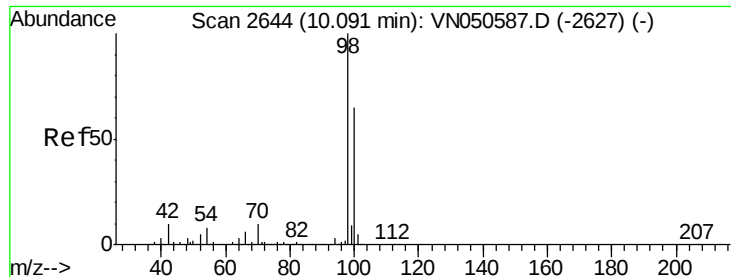
Methyl methacrylate
 Concen: 1.39 ug/l
 RT: 9.18 min Scan# 2360
 Delta R.T. -0.02 min
 Lab File: VN050660.D
 Acq: 15 Aug 2018 17:17

Tgt Ion	Ratio	Lower	Upper
41	100		
69	0.0	73.4	110.0#
39	22.0	43.0	64.6#



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





#50

Toluene-d8

Concen: 45.59 ug/l

RT: 10.09 min Scan# 2645

Delta R.T. 0.00 min

Lab File: VN050660.D

Acq: 15 Aug 2018 17:17

Instrument :

MSVOA_N

ClientSampleId :

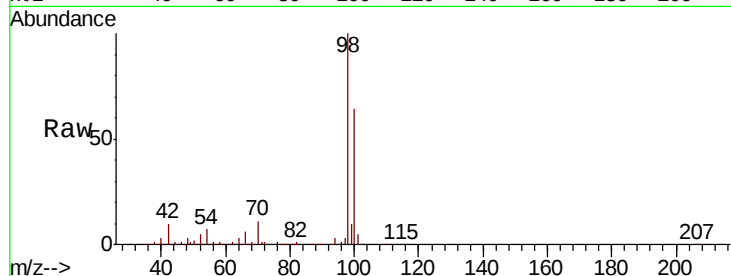
PB1112055TB

Tot Ion: 98 Resp: 1378661

Ion Ratio Lower Upper

98 100

100 63.6 51.8 77.8



Abundance Ion 98.00 (97.70 to 98.70): VN050587.D (-2627) (-)

Ion 100.00 (99.70 to 100.70): VN050587.D (-2627) (-)

10.09

800000

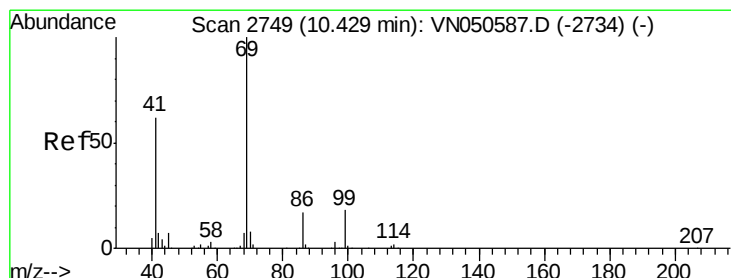
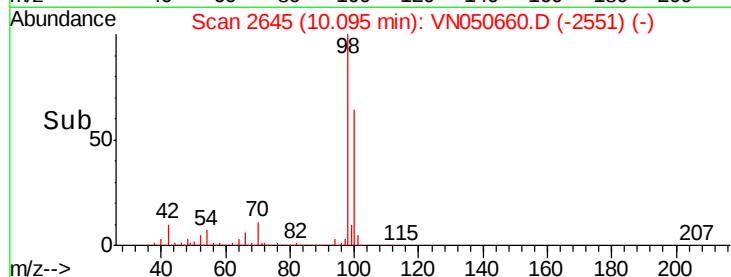
600000

400000

200000

0

Time-->



#56

Ethyl methacrylate

Concen: 2.14 ug/l

RT: 10.23 min Scan# 2686

Delta R.T. -0.20 min

Lab File: VN050660.D

Acq: 15 Aug 2018 17:17

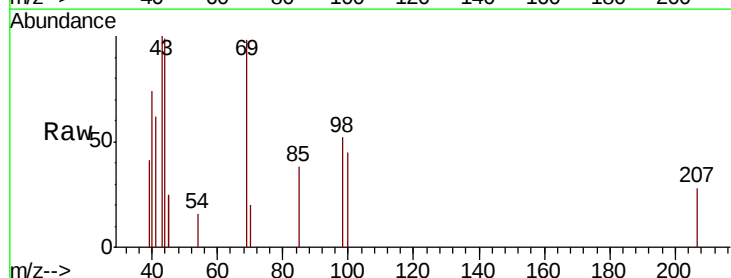
Tgt Ion: 69 Resp: 2393

Ion Ratio Lower Upper

69 100

41 20.9 49.7 74.5#

39 24.4 24.2 36.2



Abundance Ion 69.00 (68.70 to 69.70): VN050587.D (-2734) (-)

Ion 41.00 (40.70 to 41.70): VN050587.D (-2734) (-)

Ion 39.00 (38.70 to 39.70): VN050587.D (-2734) (-)

10.23

1200

1000

800

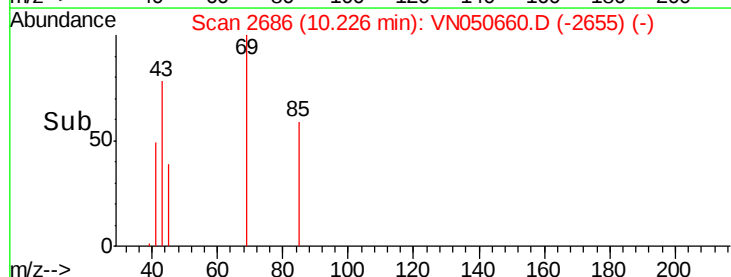
600

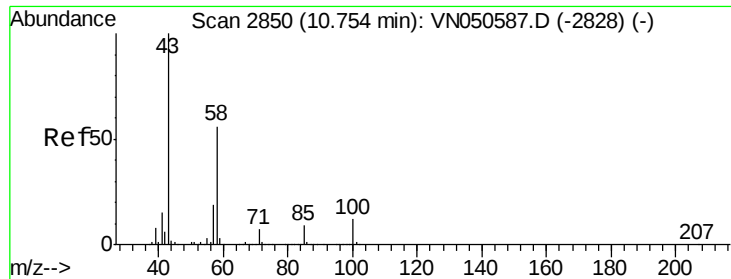
400

200

0

Time-->





#59

2-Hexanone

Concen: 4.06 ug/l

RT: 10.77 min Scan# 2854

Delta R.T. 0.01 min

Lab File: VN050660.D

Acq: 15 Aug 2018 17:17

Instrument :

MSVOA_N

ClientSampleId :

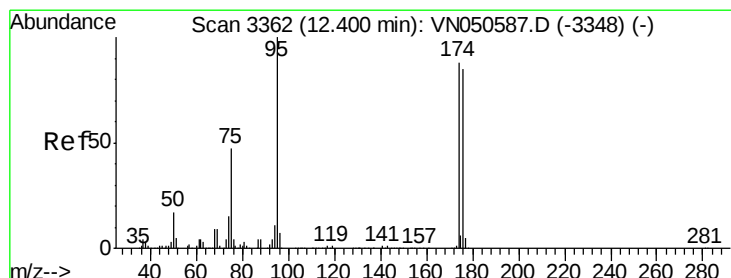
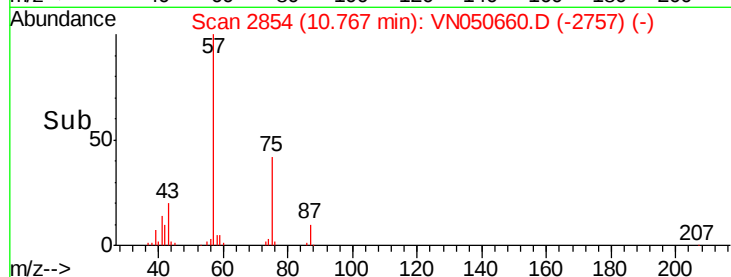
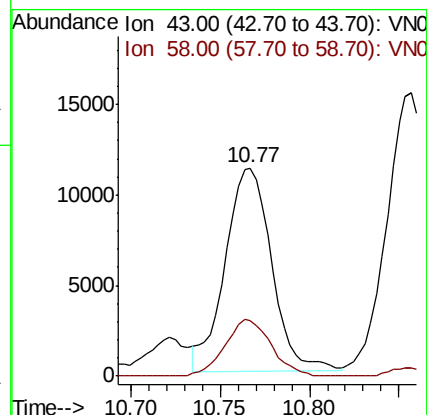
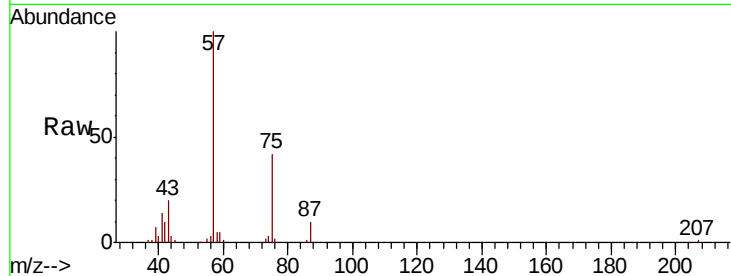
PB1112055TB

Tot Ion: 43 Resp: 20445

Ion Ratio Lower Upper

43 100

58 27.7 28.0 84.0#



#62

4-Bromofluorobenzene

Concen: 38.25 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN050660.D

Acq: 15 Aug 2018 17:17

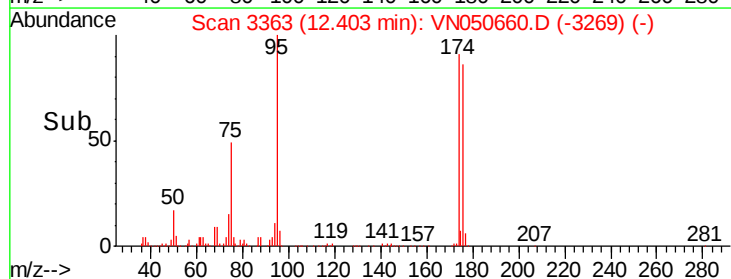
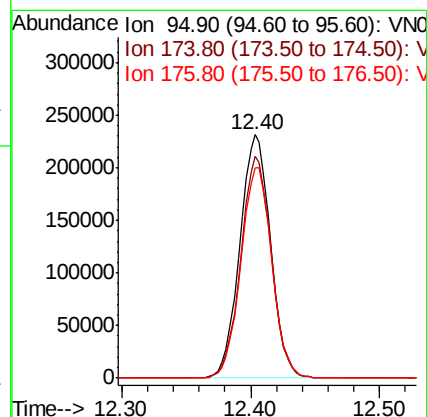
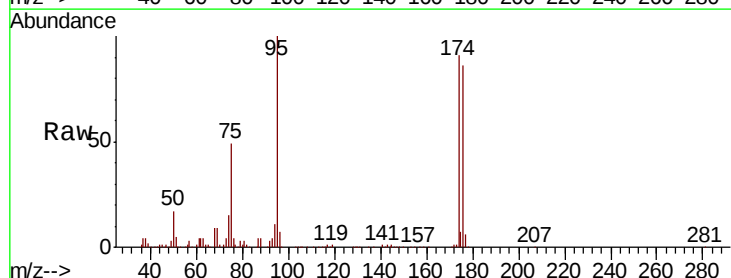
Tgt Ion: 95 Resp: 382116

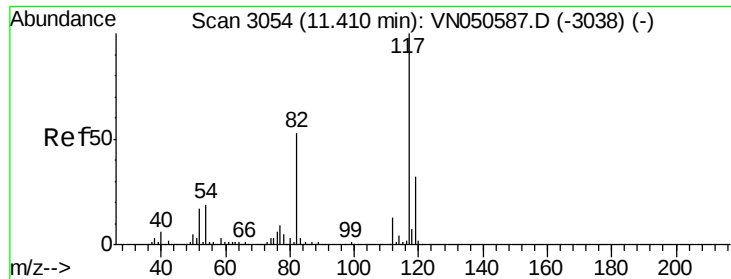
Ion Ratio Lower Upper

95 100

174 90.8 0.0 177.8

176 87.2 0.0 175.0

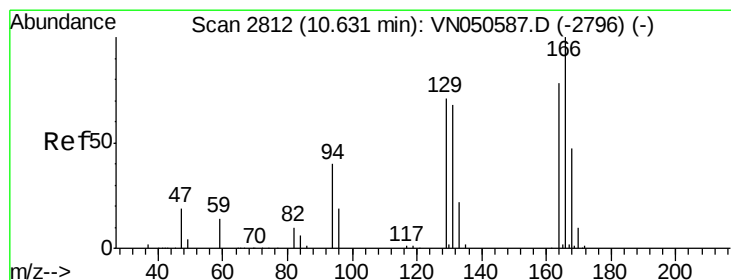
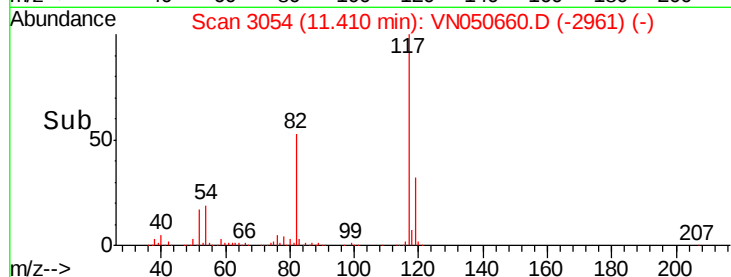
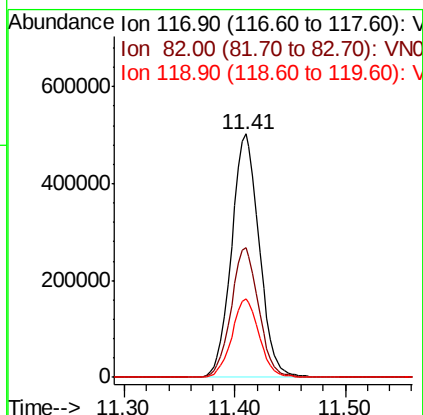
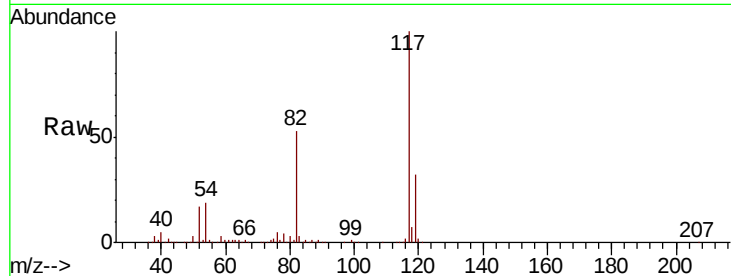




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN050660.D
Acq: 15 Aug 2018 17:17

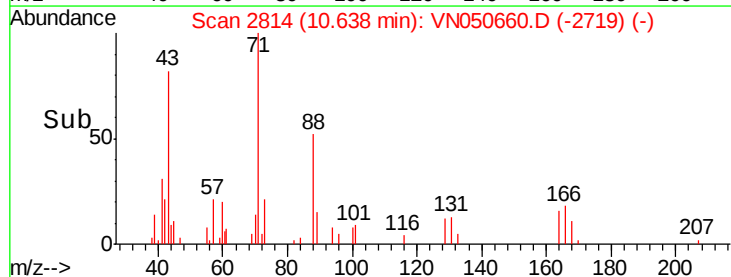
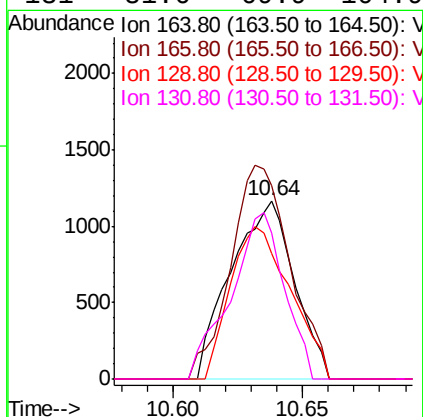
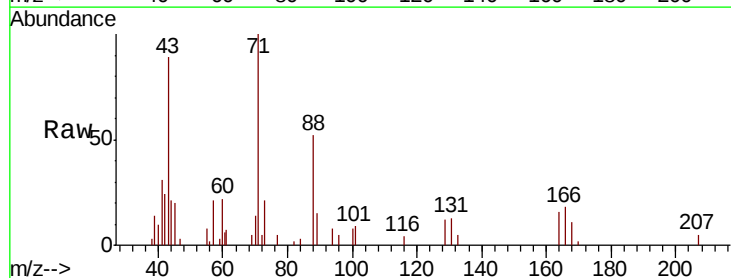
Instrument :
MSVOA_N
ClientSampleId :
PB1112055TB

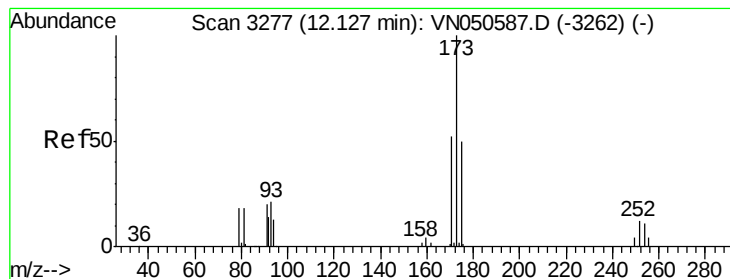
Tot Ion:117 Resp: 873999
Ion Ratio Lower Upper
117 100
82 53.2 42.4 63.6
119 32.3 25.8 38.8



#64
Tetrachloroethene
Concen: 0.25 ug/l
RT: 10.64 min Scan# 2814
Delta R.T. 0.01 min
Lab File: VN050660.D
Acq: 15 Aug 2018 17:17

Tgt Ion:164 Resp: 2001
Ion Ratio Lower Upper
164 100
166 108.4 102.1 153.1
129 70.5 72.7 109.1#
131 81.6 69.9 104.9





#71

Bromoform

Concen: 0.65 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.28 min

Lab File: VN050660.D

Acq: 15 Aug 2018 17:17

Instrument :

MSVOA_N

ClientSampleId :

PB1112055TB

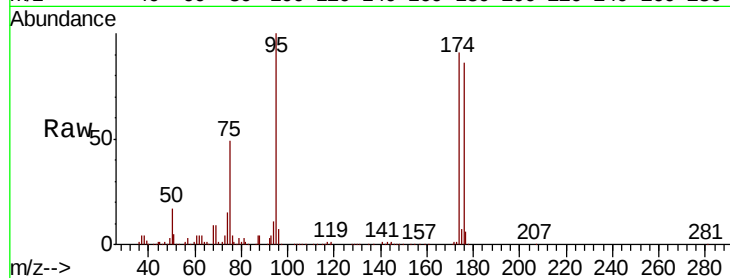
Tot Ion:173 Resp: 3492

Ion Ratio Lower Upper

173 100

175 622.7 24.4 73.2#

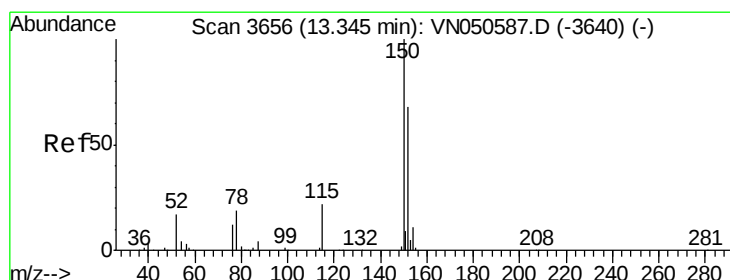
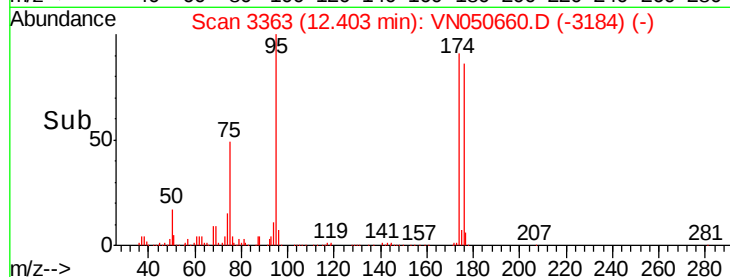
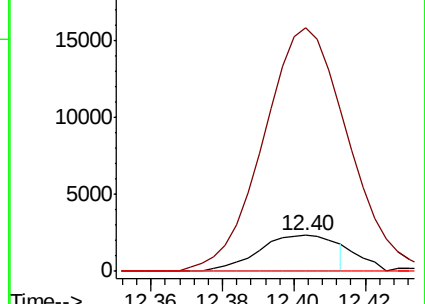
254 0.0 0.0 0.0



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: VN050660.D

Acq: 15 Aug 2018 17:17

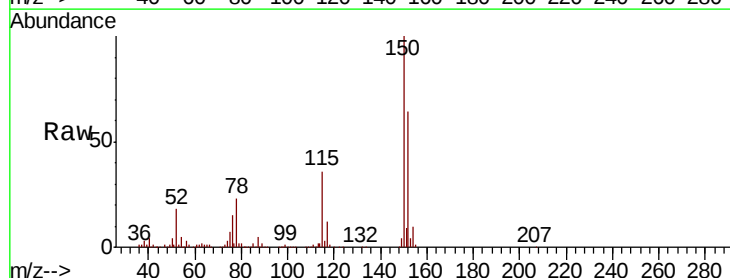
Tgt Ion:152 Resp: 311930

Ion Ratio Lower Upper

152 100

115 55.4 28.1 84.2

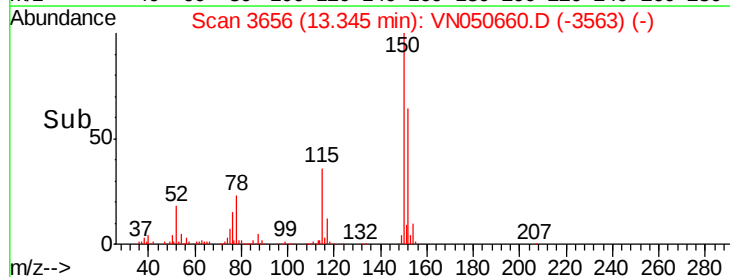
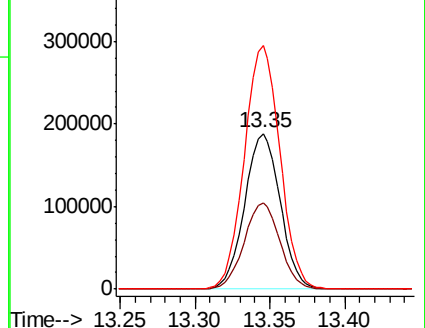
150 156.8 0.0 347.8

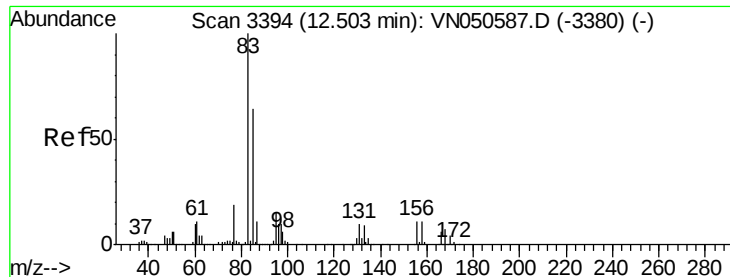


Abundance Ion 151.90 (151.60 to 152.60): V

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# 3363

Delta R.T. -0.10 min

Lab File: VN050660.D

Acq: 15 Aug 2018 17:17

Instrument :

MSVOA_N

ClientSampleId :

PB1112055TB

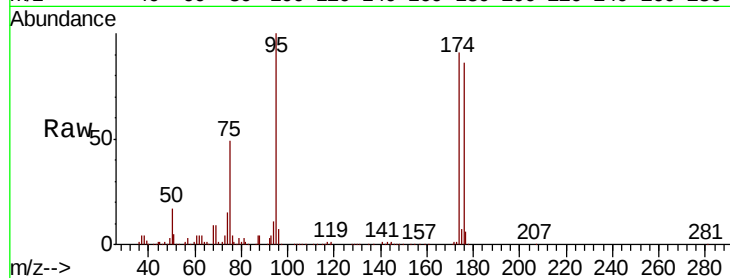
Tot Ion: 83 Resp: 189

Ion Ratio Lower Upper

83 100

131 222.8 5.3 15.9#

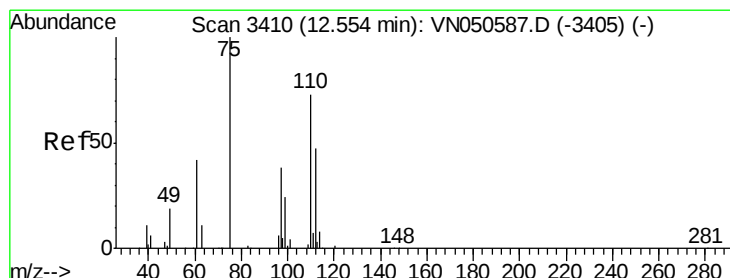
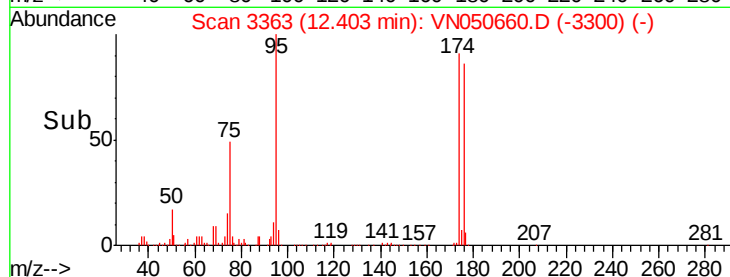
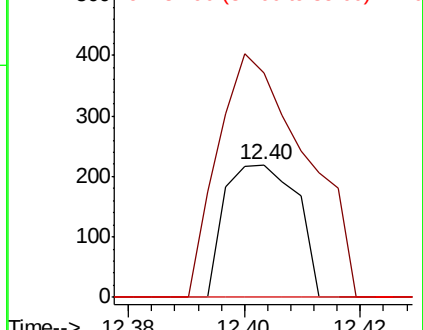
85 0.0 32.1 96.5#



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



#76

1,2,3-Trichloropropane

Concen: 36.09 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050660.D

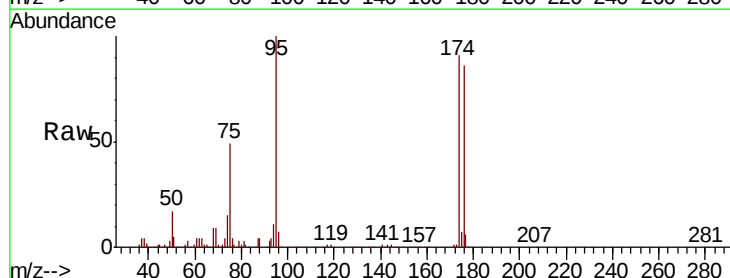
Acq: 15 Aug 2018 17:17

Tgt Ion: 75 Resp: 183347

Ion Ratio Lower Upper

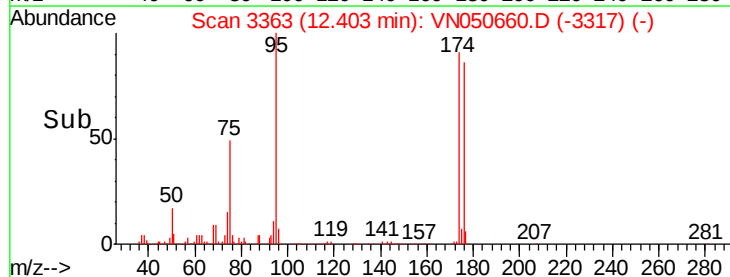
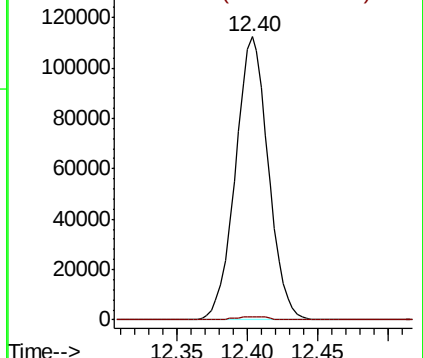
75 100

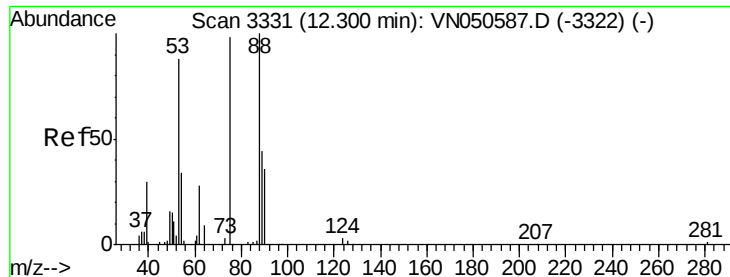
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO





#81

trans-1,4-Dichloro-2-butene

Concen: 130.68 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050660.D

Acq: 15 Aug 2018 17:17

Instrument :

MSVOA_N

ClientSampleId :

PB1112055TB

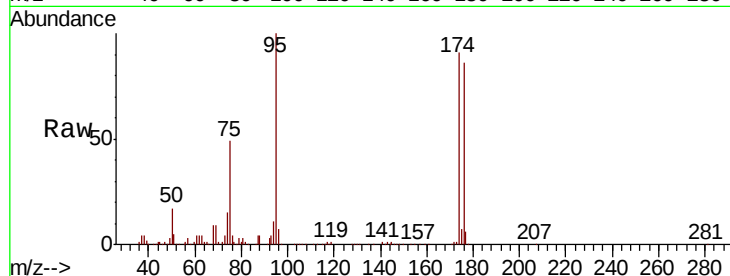
Tot Ion: 75 Resp: 183347

Ion Ratio Lower Upper

75 100

53 0.1 72.2 108.2#

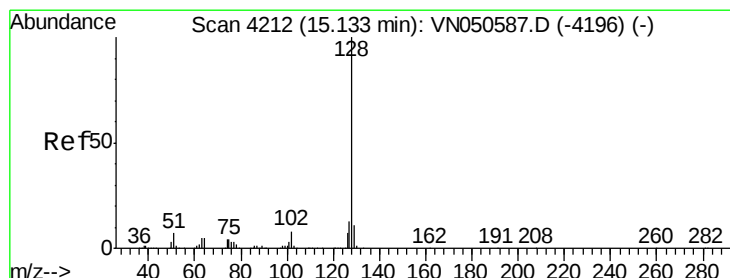
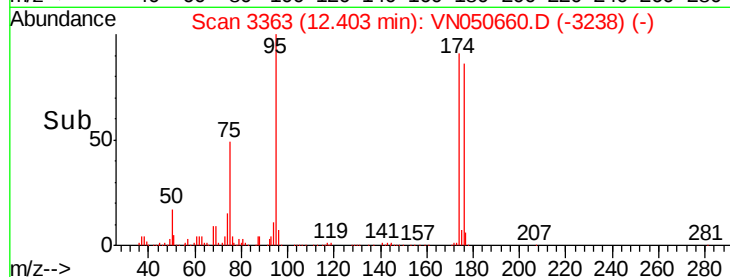
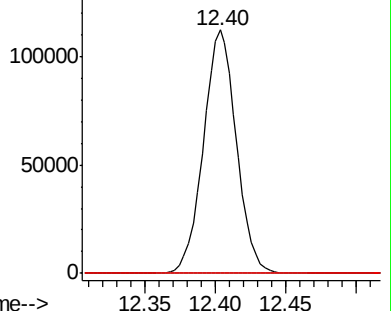
89 0.0 36.3 54.5#



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: 3.88 ug/l

RT: 15.14 min Scan# 4214

Delta R.T. 0.01 min

Lab File: VN050660.D

Acq: 15 Aug 2018 17:17

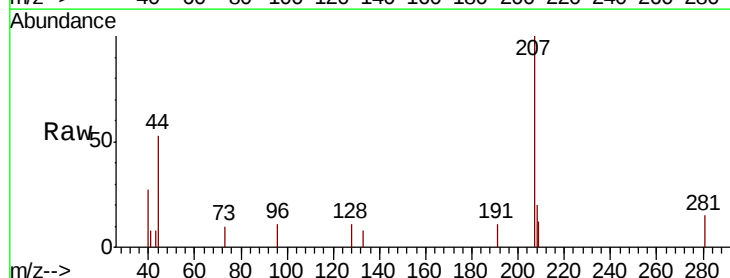
Tgt Ion: 128 Resp: 196

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): 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) (-)

