

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN062818\
 Data File : VN049583.D
 Acq On : 28 Jun 2018 12:14
 Operator : MD\SY
 Sample : VN0628WBL01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 29 01:35:57 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N061618W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 16 01:02:01 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1448406	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	2312457	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1904751	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	732532	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	941822	49.03	ug/l	0.00
Spiked Amount			Recovery	=	98.06%	
35) Dibromofluoromethane	7.59	113	839461	44.87	ug/l	0.00
Spiked Amount			Recovery	=	89.74%	
50) Toluene-d8	10.09	98	3119219	43.79	ug/l	0.00
Spiked Amount			Recovery	=	87.58%	
62) 4-Bromofluorobenzene	12.40	95	886921	37.65	ug/l	0.00
Spiked Amount			Recovery	=	75.30%	

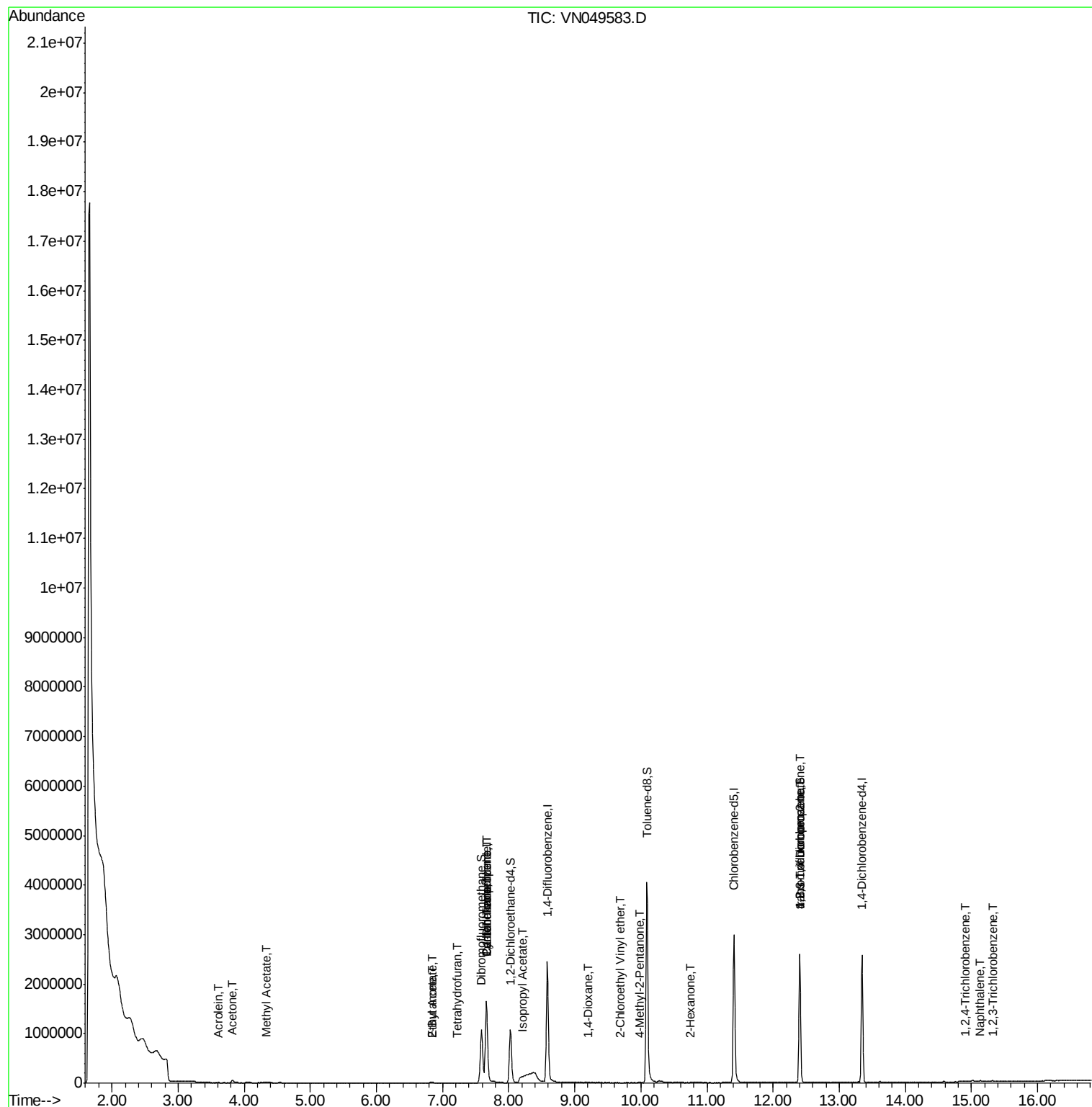
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.60	56	1860	1.57	ug/l	# 82
16) Acetone	3.82	43	98119	21.04	ug/l	92
18) Methyl Acetate	4.33	43	37900	2.66	ug/l	# 87
25) 2-Butanone	6.84	43	3341	0.53	ug/l	93
29) Tetrahydrofuran	7.21	42	1135	0.28	ug/l	# 61
31) Cyclohexane	7.66	56	26168	0.75	ug/l	# 1
36) 1,1-Dichloropropene	7.67	75	99939	3.77	ug/l	# 51
37) Ethyl Acetate	6.84	43	3293	0.23	ug/l	# 82
38) Carbon Tetrachloride	7.66	117	131392	4.79	ug/l	# 17
43) Isopropyl Acetate	8.19	43	92708	3.37	ug/l	# 66
49) 1,4-Dioxane	9.20	88	284	1.59	ug/l	# 70
51) 4-Methyl-2-Pentanone	9.99	43	3882	0.27	ug/l	# 78
58) 2-Chloroethyl Vinyl ether	9.69	63	206	14.35	ug/l	# 51
59) 2-Hexanone	10.75	43	5596	0.60	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.51	83	601	Below	Cal	# 90
76) 1,2,3-Trichloropropane	12.40	75	439252	35.14	ug/l	# 100
81) trans-1,4-Dichloro-2-buten	12.40	75	439252	111.07	ug/l	# 9
90) Hexachloroethane	13.76	117	65	Below	Cal	# 9
93) 1,2,4-Trichlorobenzene	14.91	180	6449	5.21	ug/l	90
94) Hexachlorobutadiene	15.01	225	5795	Below	Cal	98
95) Naphthalene	15.14	128	13498	2.74	ug/l	# 91
96) 1,2,3-Trichlorobenzene	15.32	180	6886	3.98	ug/l	94

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

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Quant Title : SW846 8260
QLast Update : Sat Jun 16 01:02:01 2018
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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.00 min

Lab File: VN049583.D

Acq: 28 Jun 2018 12:14

Instrument :

MSVOA_N

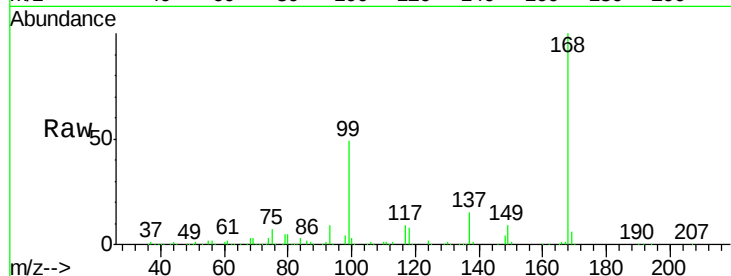
ClientSampleId :

Tot Ion:168 Resp: 1448406

Ion Ratio Lower Upper

168 100

99 49.4 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

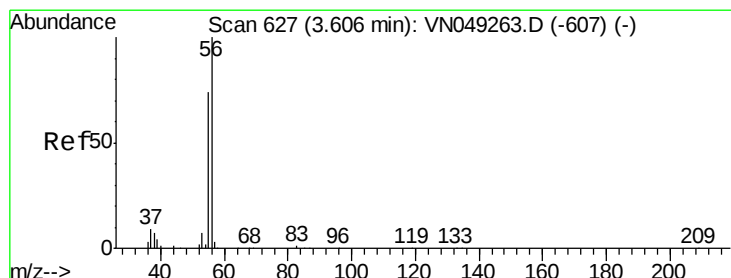
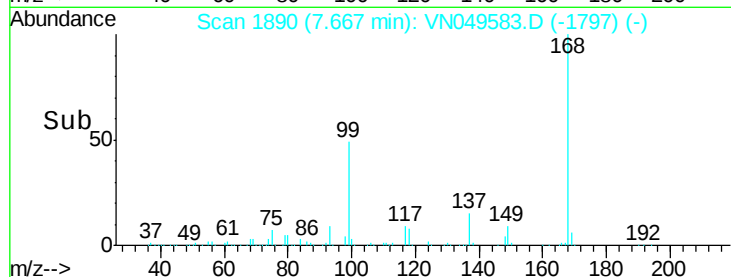
600000

400000

200000

0

Time-->



#13

Acrolein

Concen: 1.57 ug/l

RT: 3.60 min Scan# 626

Delta R.T. -0.00 min

Lab File: VN049583.D

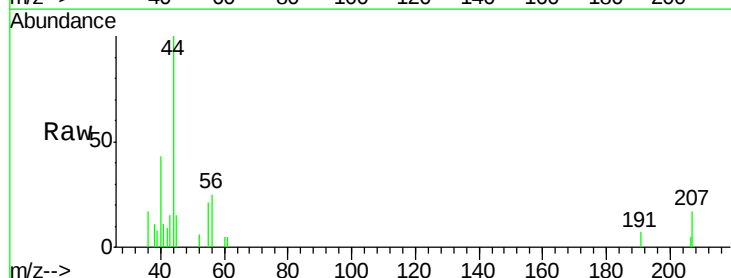
Acq: 28 Jun 2018 12:14

Tgt Ion: 56 Resp: 1860

Ion Ratio Lower Upper

56 100

55 56.3 57.1 85.7#



Abundance Ion 56.00 (55.70 to 56.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

3.60

1000

800

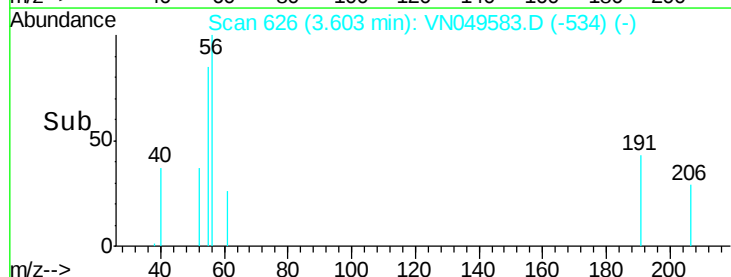
600

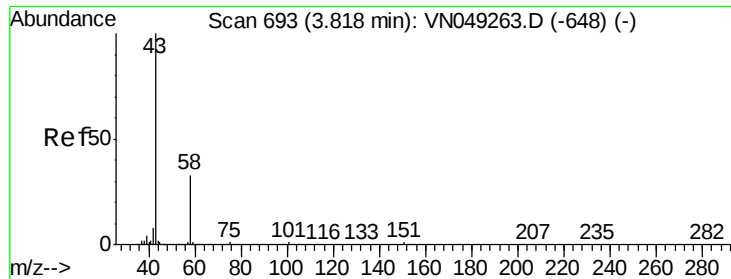
400

200

0

Time-->

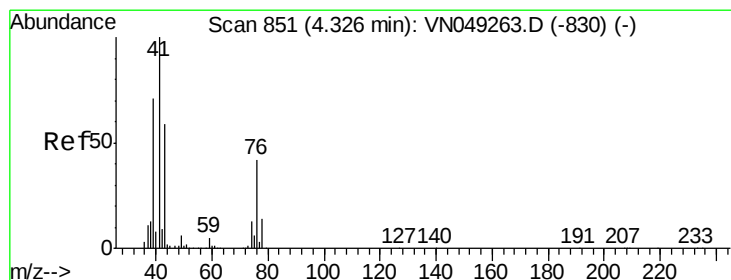
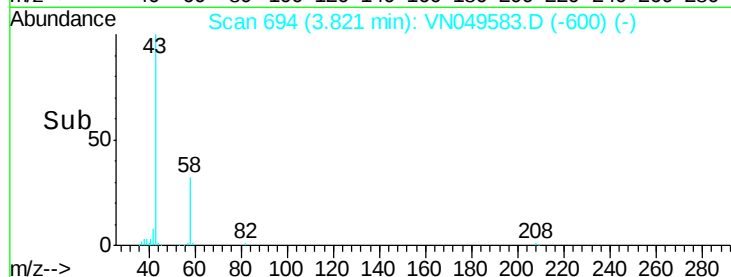
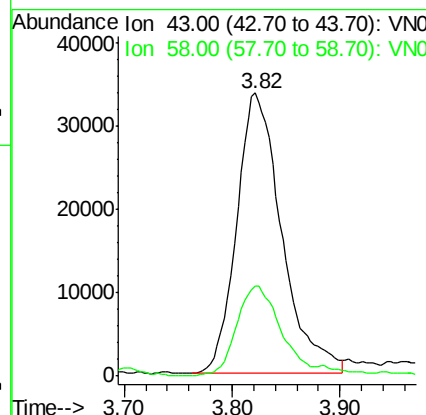
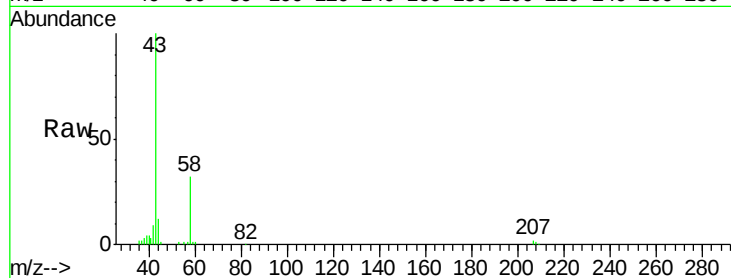




#16
Acetone
Concen: 21.04 ug/l
RT: 3.82 min Scan# 694
Delta R.T. 0.00 min
Lab File: VN049583.D
Acq: 28 Jun 2018 12:14

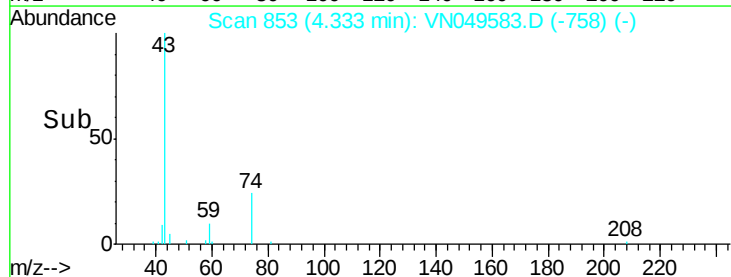
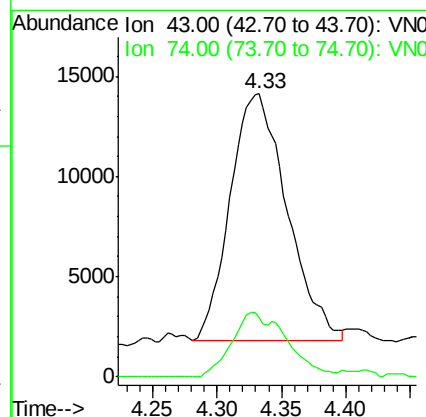
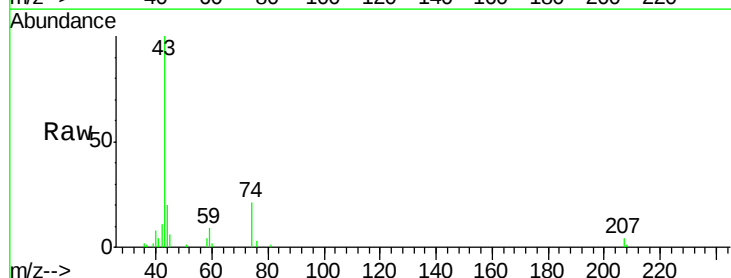
Instrument :
MSVOA_N
ClientSampleId :

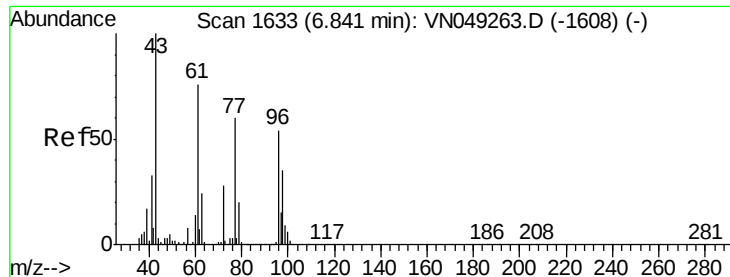
Tot Ion: 43 Resp: 98119
Ion Ratio Lower Upper
43 100
58 32.0 22.4 33.6



#18
Methyl Acetate
Concen: 2.66 ug/l
RT: 4.33 min Scan# 853
Delta R.T. 0.01 min
Lab File: VN049583.D
Acq: 28 Jun 2018 12:14

Tgt Ion: 43 Resp: 37900
Ion Ratio Lower Upper
43 100
74 15.4 17.4 26.0#





#25

2-Butanone

Concen: 0.53 ug/l

RT: 6.84 min Scan# 1633

Delta R.T. -0.00 min

Lab File: VN049583.D

Acq: 28 Jun 2018 12:14

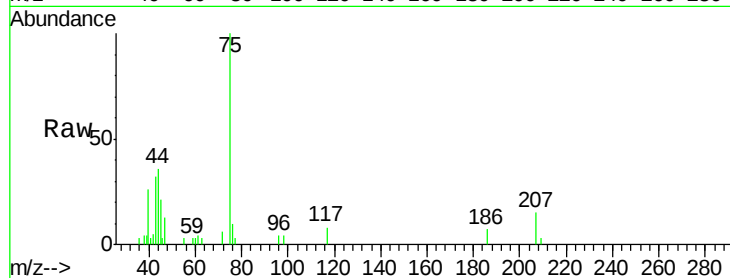
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 43 Resp: 3341

Ion Ratio Lower Upper

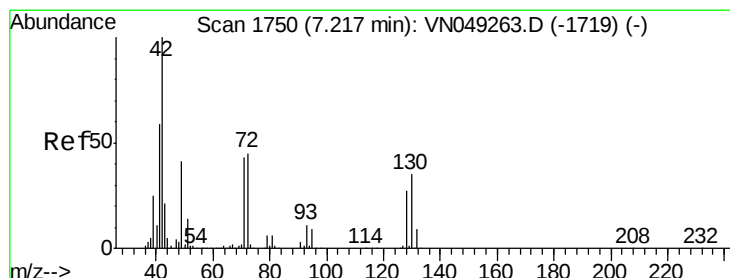
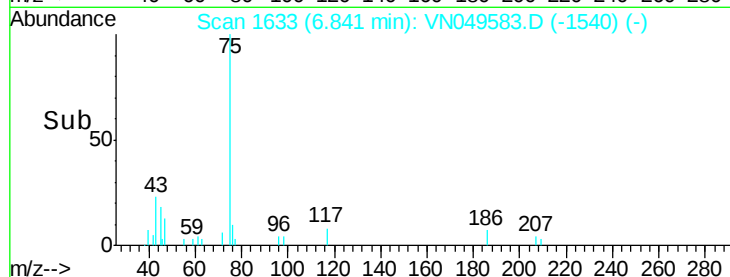
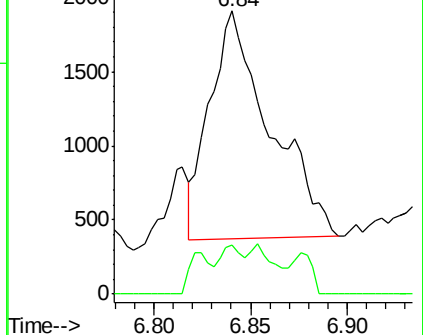
43 100

72 21.6 20.2 30.2



Abundance Ion 43.00 (42.70 to 43.70): VN049583.D (-1540) (-)

Ion 72.00 (71.70 to 72.70): VN049583.D (-1540) (-)



#29

Tetrahydrofuran

Concen: 0.28 ug/l

RT: 7.21 min Scan# 1747

Delta R.T. -0.01 min

Lab File: VN049583.D

Acq: 28 Jun 2018 12:14

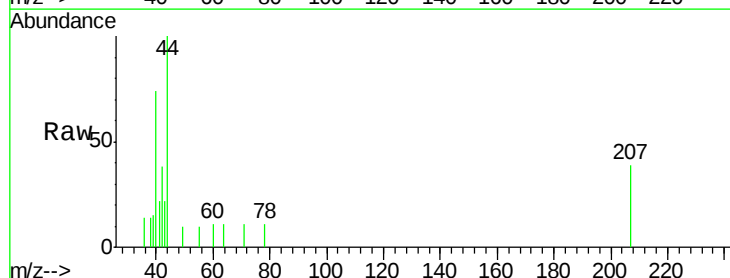
Tgt Ion: 42 Resp: 1135

Ion Ratio Lower Upper

42 100

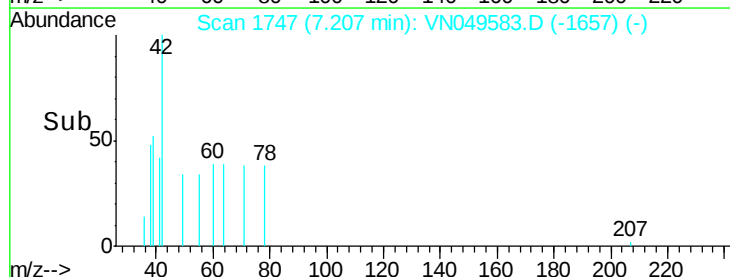
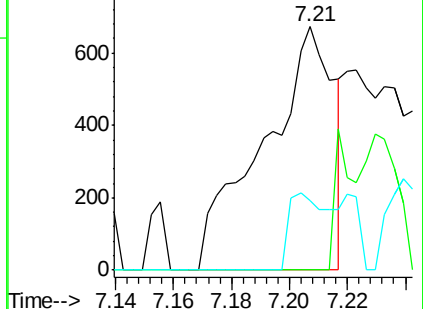
72 15.2 32.2 48.4#

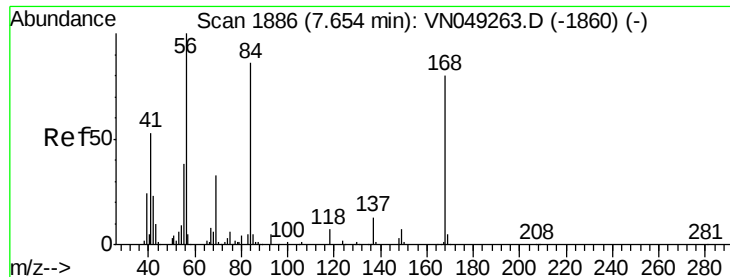
71 15.9 30.5 45.7#



Abundance Ion 42.00 (41.70 to 42.70): VN049583.D (-1657) (-)

Ion 72.00 (71.70 to 72.70): VN049583.D (-1657) (-)

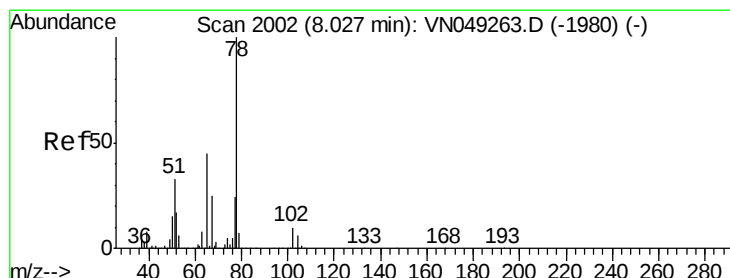
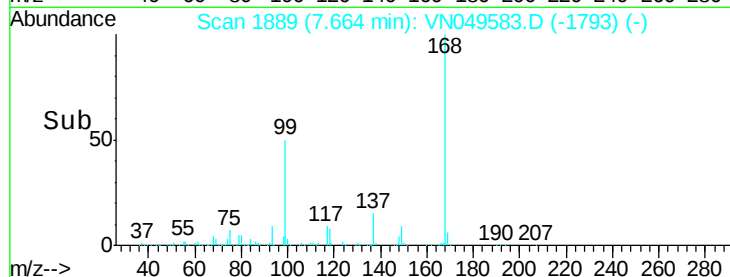
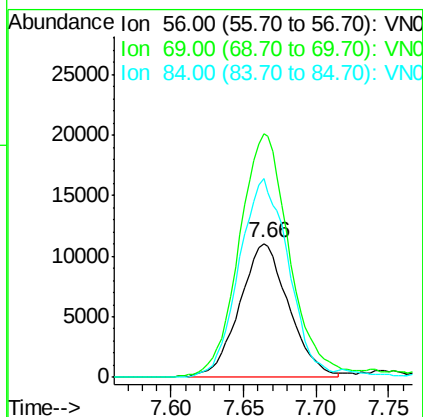
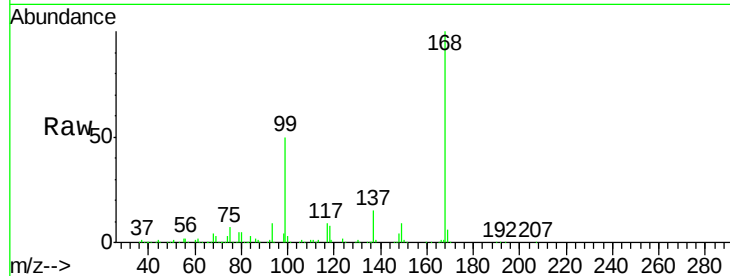




#31
Cyclohexane
Concen: 0.75 ug/l
RT: 7.66 min Scan# 1889
Delta R.T. 0.01 min
Lab File: VN049583.D
Acq: 28 Jun 2018 12:14

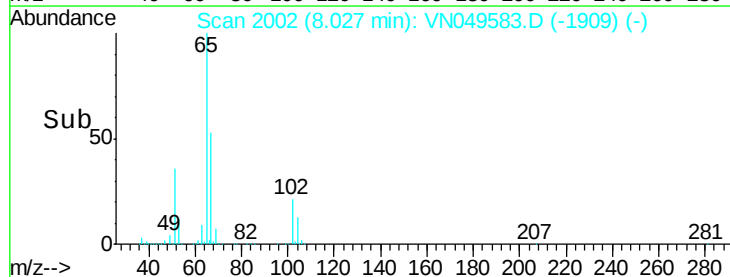
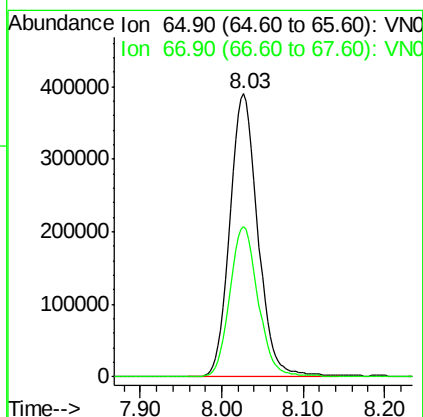
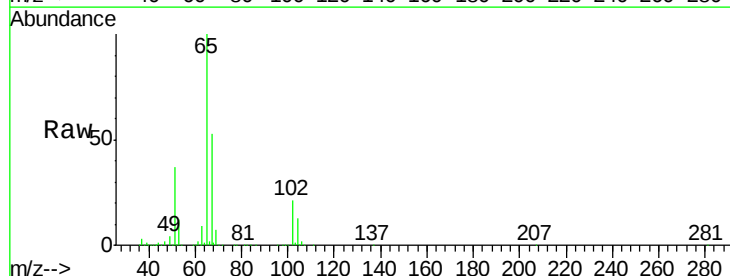
Instrument :
MSVOA_N
ClientSampleId :

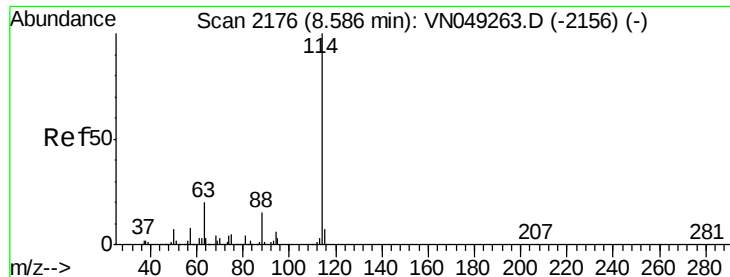
Tot Ion: 56 Resp: 26168
Ion Ratio Lower Upper
56 100
69 179.7 25.0 37.4#
84 148.5 64.6 96.8#



#33
1,2-Dichloroethane-d4
Concen: 49.03 ug/l
RT: 8.03 min Scan# 2002
Delta R.T. -0.00 min
Lab File: VN049583.D
Acq: 28 Jun 2018 12:14

Tgt Ion: 65 Resp: 941822
Ion Ratio Lower Upper
65 100
67 53.6 0.0 103.8





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.58 min Scan# 2175

Delta R.T. -0.00 min

Lab File: VN049583.D

Acq: 28 Jun 2018 12:14

Instrument :

MSVOA_N

ClientSampled :

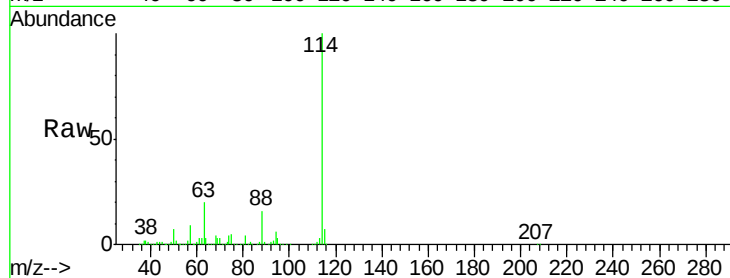
Tot Ion:114 Resp: 2312457

Ion Ratio Lower Upper

114 100

63 20.0 0.0 44.4

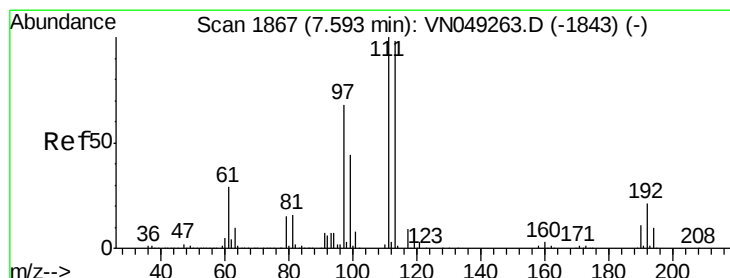
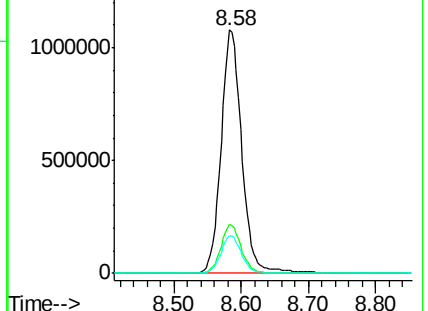
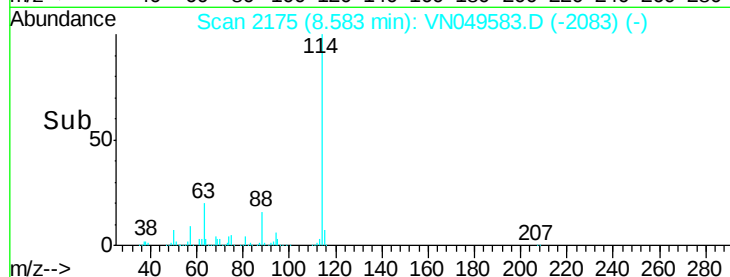
88 15.6 0.0 31.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0



#35

Dibromofluoromethane

Concen: 44.87 ug/l

RT: 7.59 min Scan# 1866

Delta R.T. -0.00 min

Lab File: VN049583.D

Acq: 28 Jun 2018 12:14

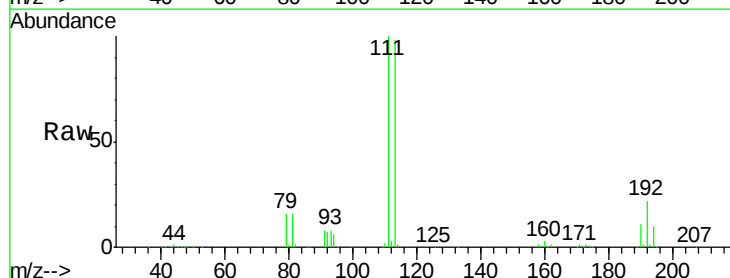
Tgt Ion:113 Resp: 839461

Ion Ratio Lower Upper

113 100

111 101.8 82.4 123.6

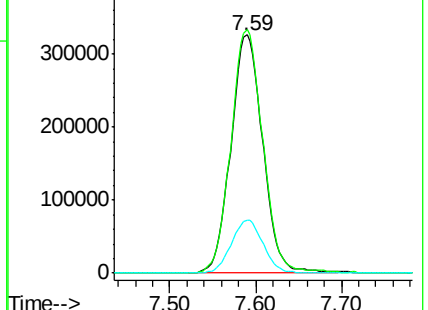
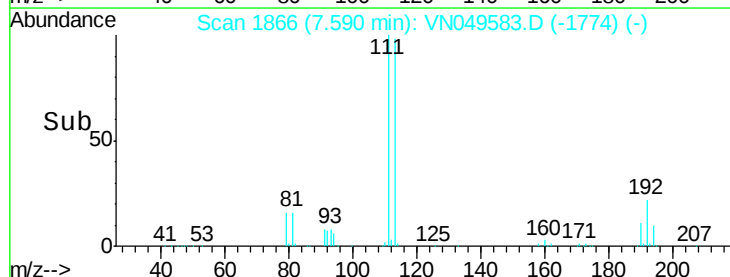
192 22.3 15.0 22.6

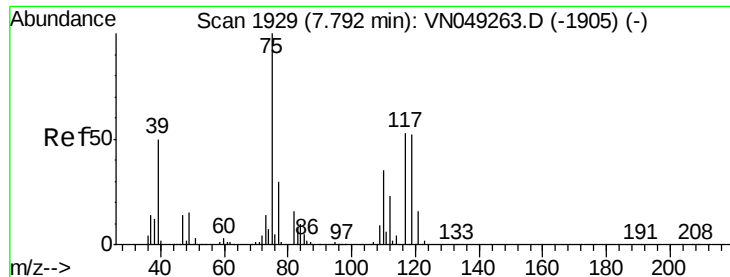


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 3.77 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.13 min

Lab File: VN049583.D

Acq: 28 Jun 2018 12:14

Instrument :
MSVOA_N
ClientSampled :

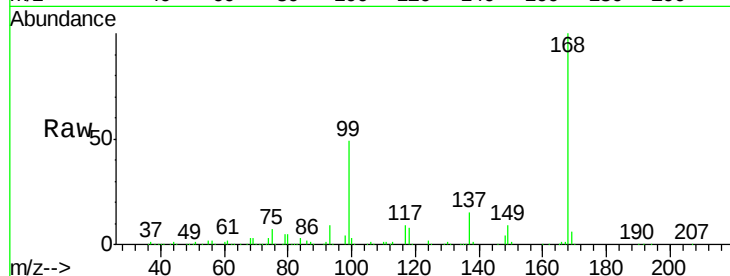
Tot Ion: 75 Resp: 99939

Ion Ratio Lower Upper

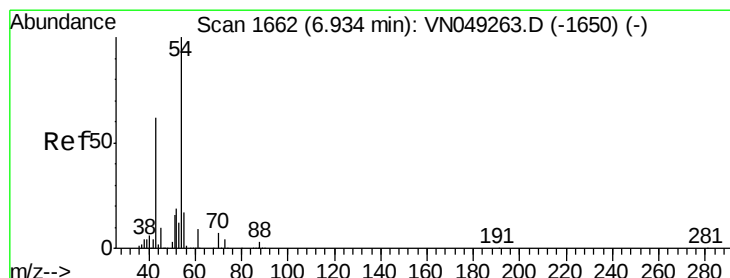
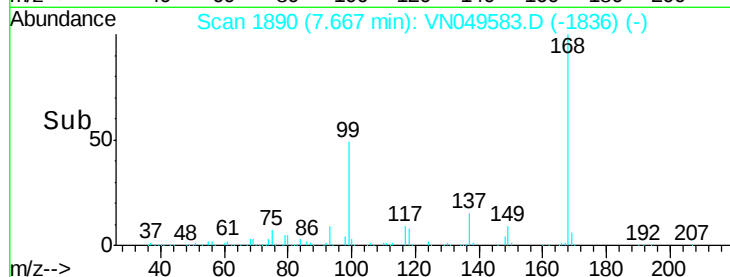
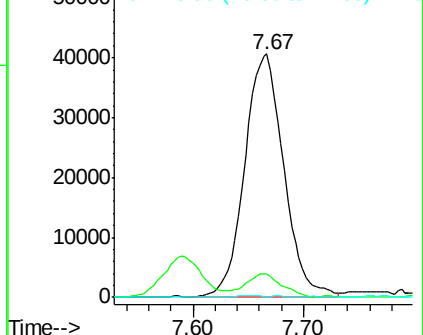
75 100

110 8.8 17.0 50.9#

77 0.1 24.4 36.6#



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: 0.23 ug/l

RT: 6.84 min Scan# 1633

Delta R.T. -0.09 min

Lab File: VN049583.D

Acq: 28 Jun 2018 12:14

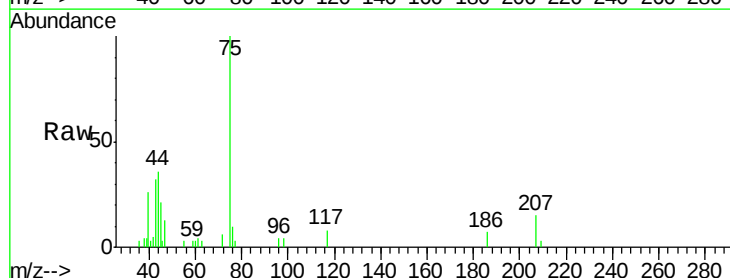
Tgt Ion: 43 Resp: 3293

Ion Ratio Lower Upper

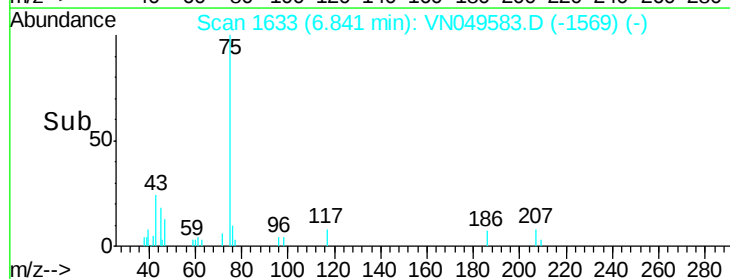
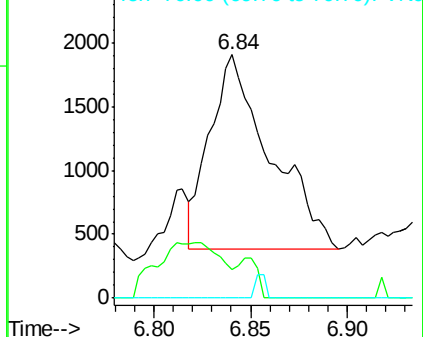
43 100

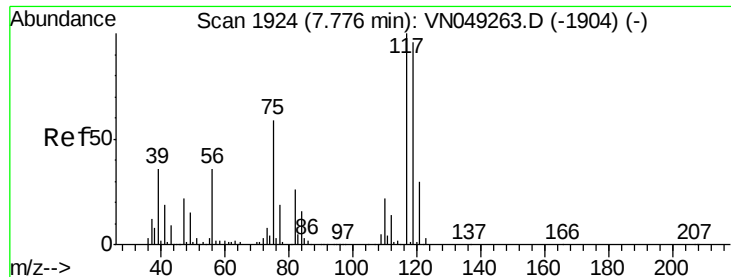
61 6.5 11.0 16.4#

70 2.2 7.2 10.8#



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: 4.79 ug/l

RT: 7.66 min Scan# 1889

Delta R.T. -0.11 min

Lab File: VN049583.D

Acq: 28 Jun 2018 12:14

Instrument :

MSVOA_N

ClientSampleId :

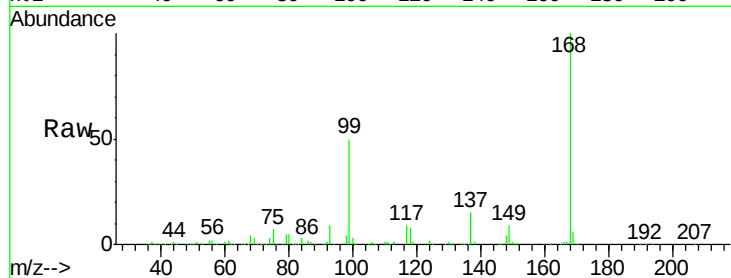
Tot Ion:117 Resp: 131392

Ion Ratio Lower Upper

117 100

119 5.8 75.6 113.4#

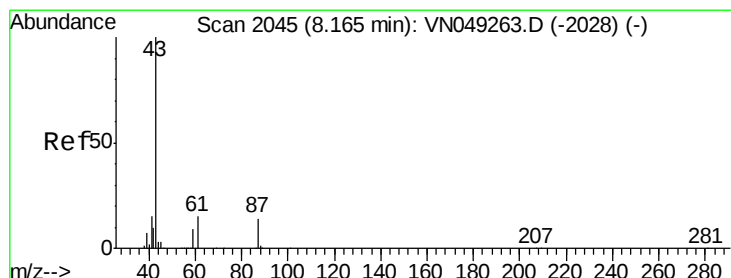
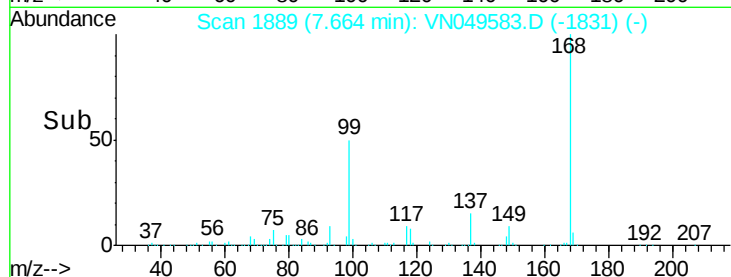
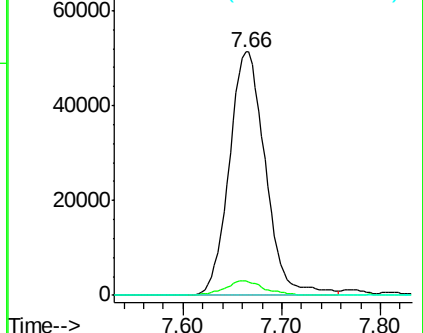
121 0.0 24.7 37.1#



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: 3.37 ug/l

RT: 8.19 min Scan# 2054

Delta R.T. 0.03 min

Lab File: VN049583.D

Acq: 28 Jun 2018 12:14

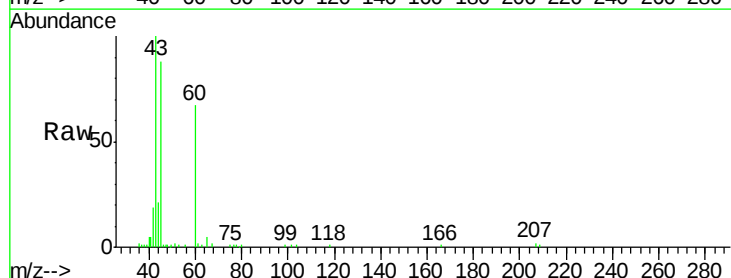
Tgt Ion: 43 Resp: 92708

Ion Ratio Lower Upper

43 100

61 1.7 14.2 21.4#

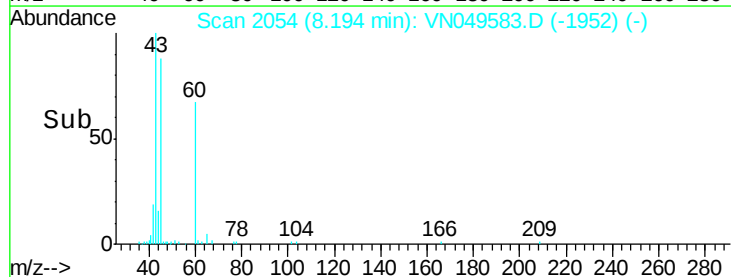
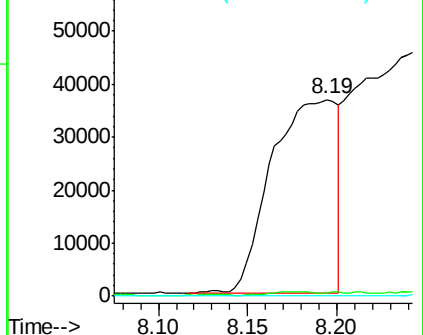
87 0.0 9.4 14.0#

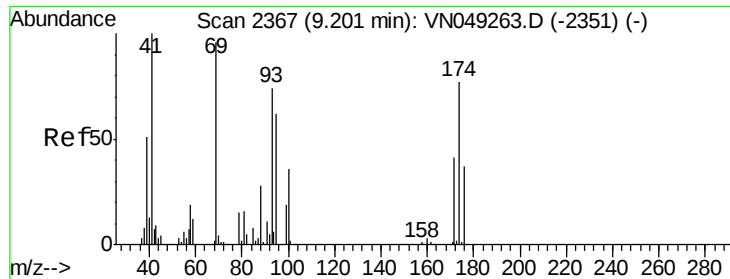


Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 61.00 (60.70 to 61.70): VNO

Ion 87.00 (86.70 to 87.70): VNO

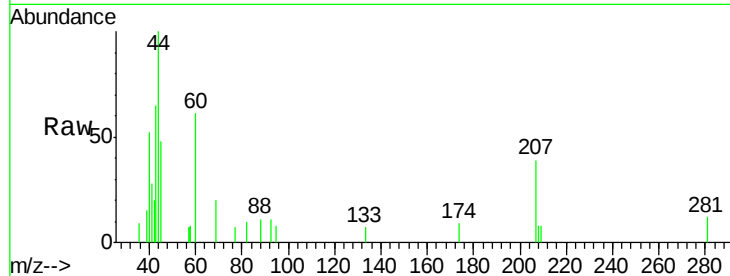




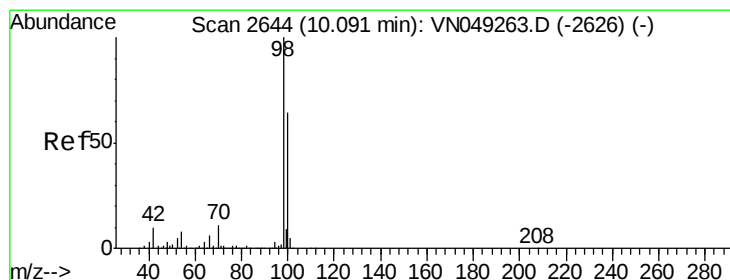
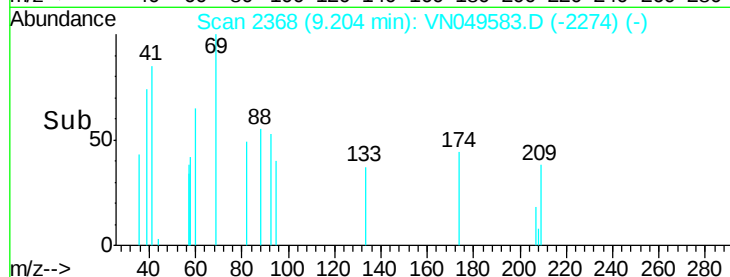
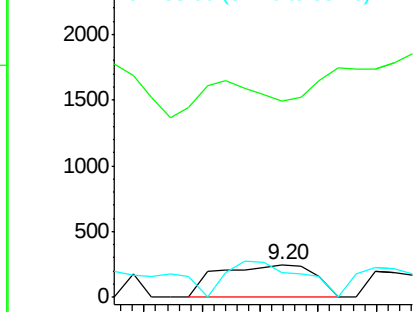
#49
1,4-Dioxane
Concen: 1.59 ug/l
RT: 9.20 min Scan# 2368
Delta R.T. 0.00 min
Lab File: VN049583.D
Acq: 28 Jun 2018 12:14

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 88 Resp: 284
Ion Ratio Lower Upper
88 100
43 75.0 30.9 46.3#
58 85.2 58.9 88.3

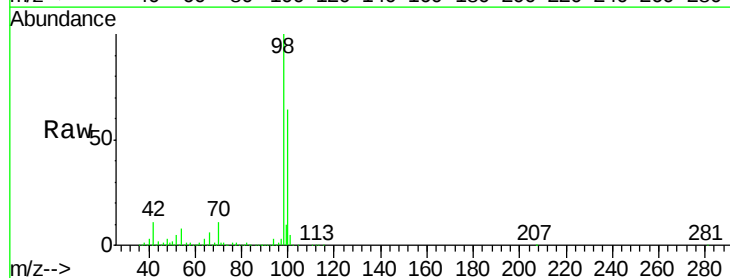


Abundance Ion 88.00 (87.70 to 88.70): VN0
Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0

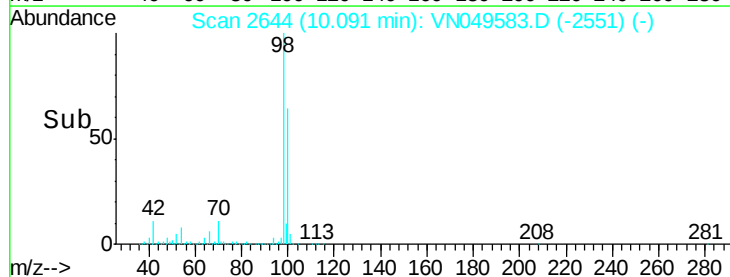
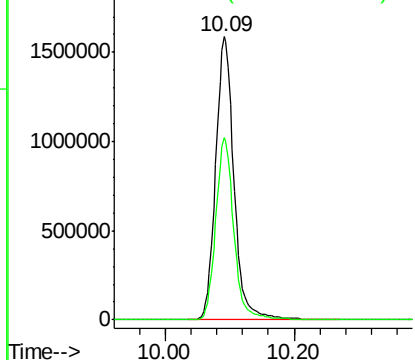


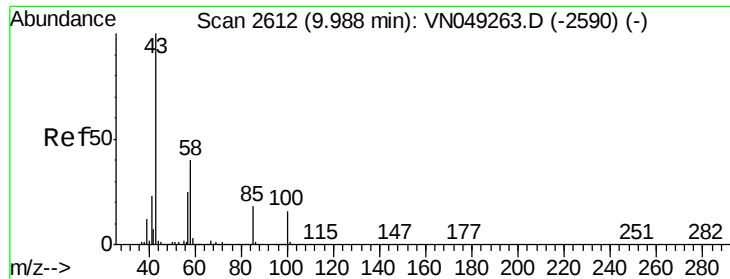
#50
Toluene-d8
Concen: 43.79 ug/l
RT: 10.09 min Scan# 2644
Delta R.T. 0.00 min
Lab File: VN049583.D
Acq: 28 Jun 2018 12:14

Tgt Ion: 98 Resp: 3119219
Ion Ratio Lower Upper
98 100
100 63.7 49.8 74.8



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

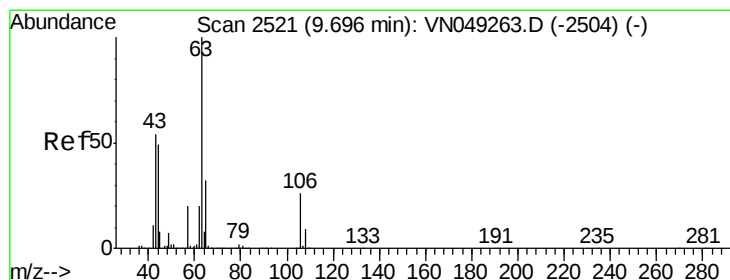
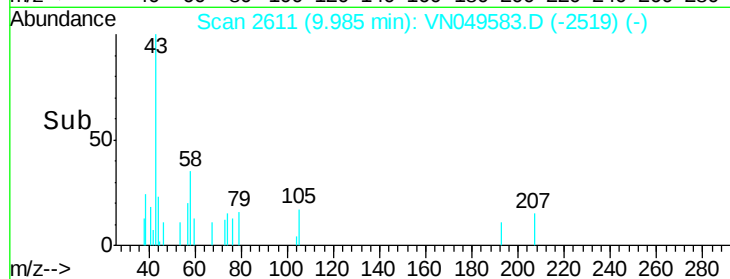
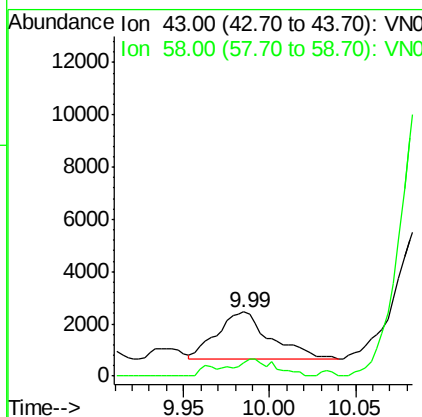
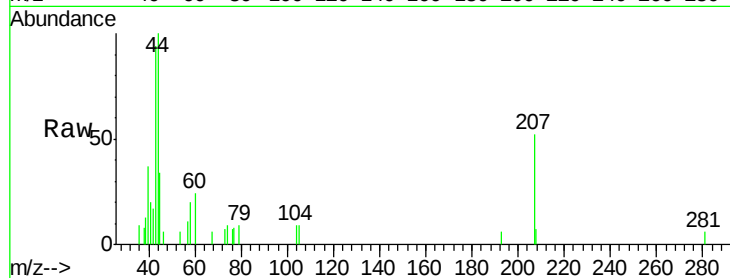




#51
 4-Methyl-2-Pentanone
 Concen: 0.27 ug/l
 RT: 9.99 min Scan# 2611
 Delta R.T. -0.00 min
 Lab File: VN049583.D
 Acq: 28 Jun 2018 12:14

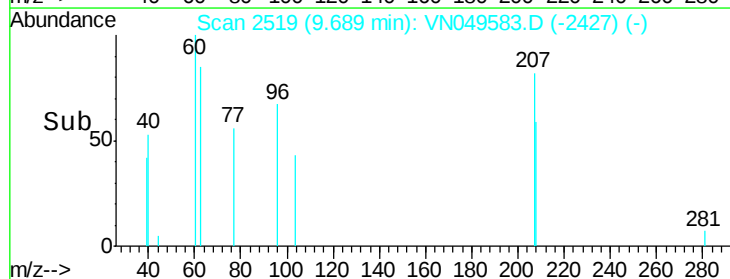
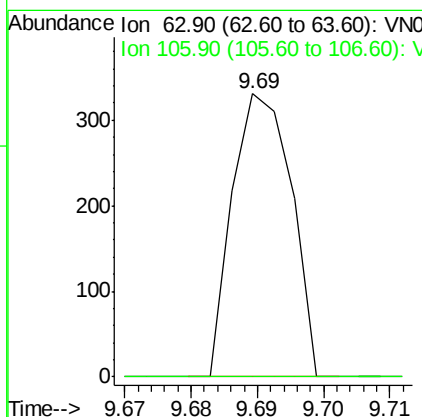
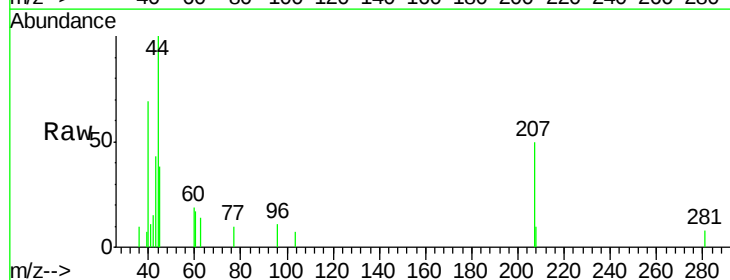
Instrument :
 MSVOA_N
 ClientSampled :

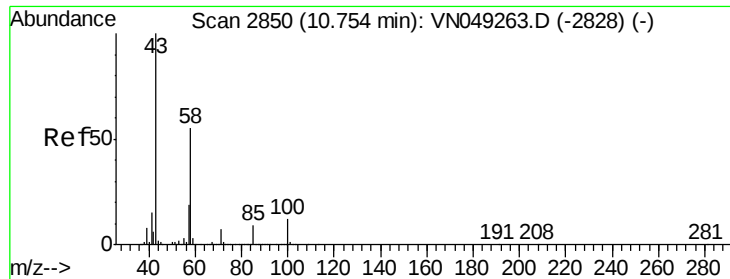
Tot Ion: 43 Resp: 3882
 Ion Ratio Lower Upper
 43 100
 58 23.2 29.0 43.6#



#58
 2-Chloroethyl Vinyl ether
 Concen: 14.35 ug/l
 RT: 9.69 min Scan# 2519
 Delta R.T. -0.01 min
 Lab File: VN049583.D
 Acq: 28 Jun 2018 12:14

Tgt Ion: 63 Resp: 206
 Ion Ratio Lower Upper
 63 100
 106 0.0 19.4 29.2#

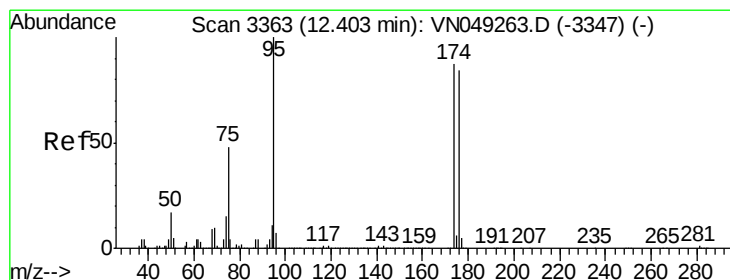
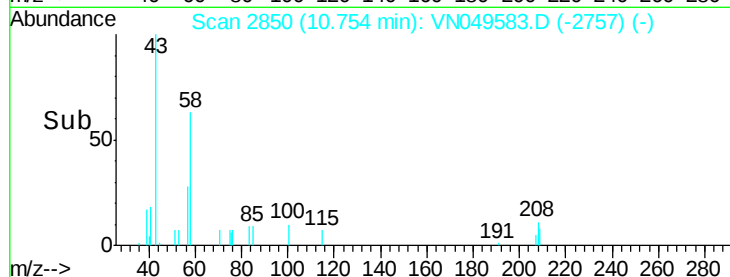
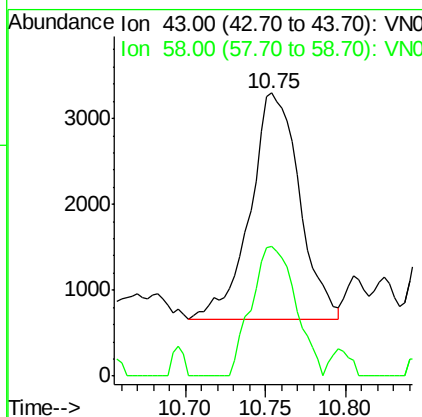
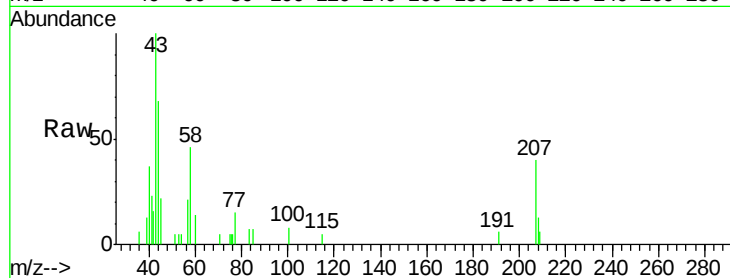




#59
2-Hexanone
Concen: 0.60 ug/l
RT: 10.75 min Scan# 2850
Delta R.T. -0.00 min
Lab File: VN049583.D
Acq: 28 Jun 2018 12:14

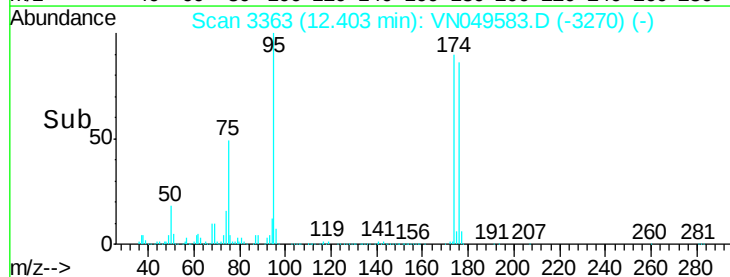
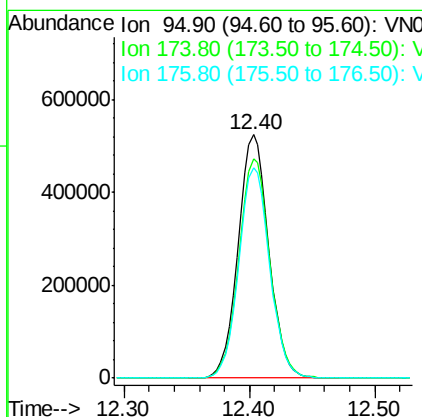
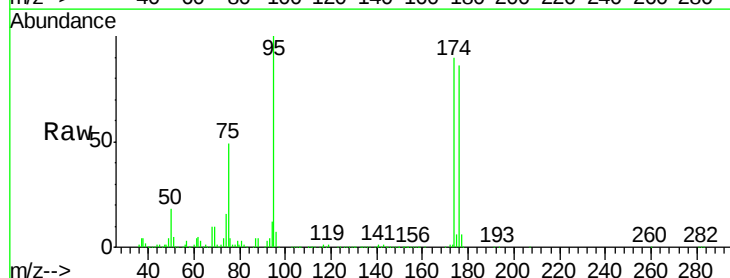
Instrument :
MSVOA_N
ClientSampleId :

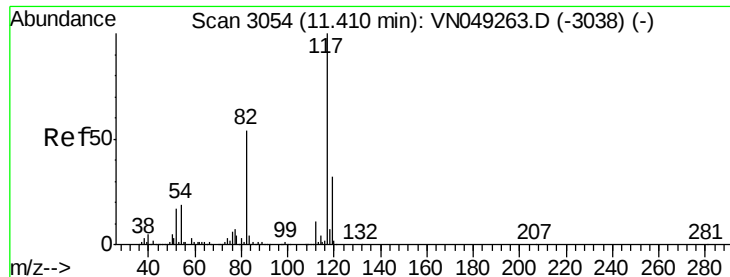
Tot Ion: 43 Resp: 5596
Ion Ratio Lower Upper
43 100
58 51.5 25.2 75.6



#62
4-Bromofluorobenzene
Concen: 37.65 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.00 min
Lab File: VN049583.D
Acq: 28 Jun 2018 12:14

Tgt Ion: 95 Resp: 886921
Ion Ratio Lower Upper
95 100
174 91.5 0.0 165.6
176 87.1 0.0 157.4

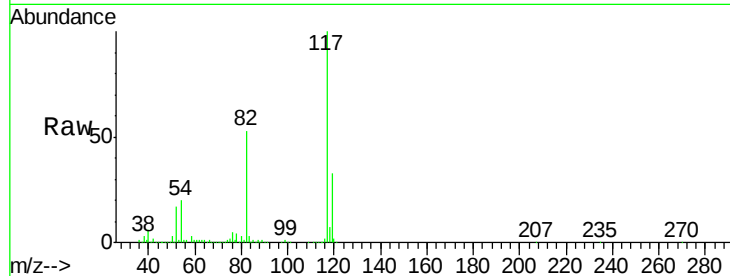




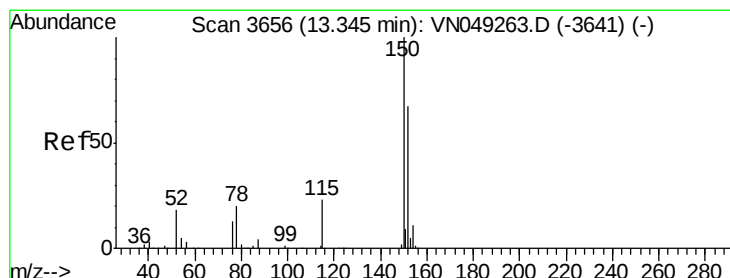
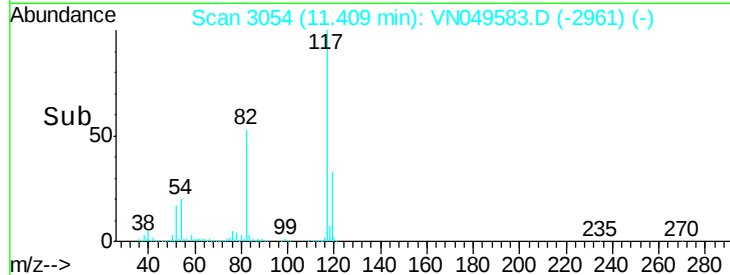
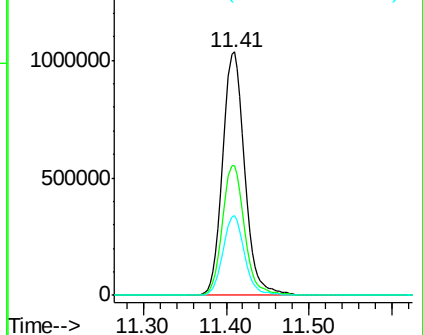
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. -0.00 min
Lab File: VN049583.D
Acq: 28 Jun 2018 12:14

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 1904751
Ion Ratio Lower Upper
117 100
82 53.3 45.9 68.9
119 32.8 25.5 38.3

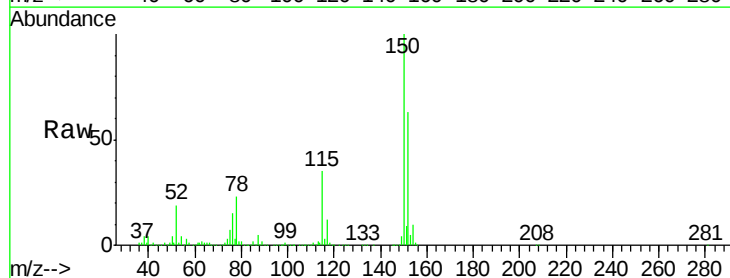


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

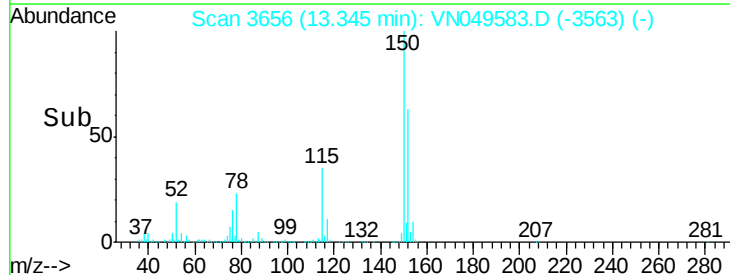
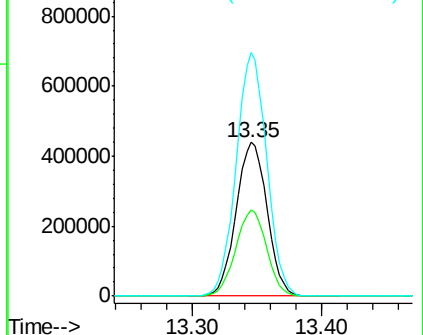


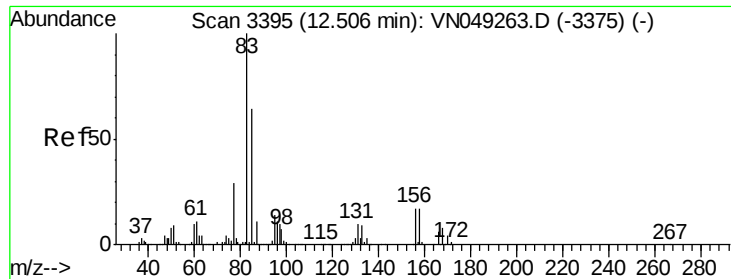
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.35 min Scan# 3656
Delta R.T. -0.00 min
Lab File: VN049583.D
Acq: 28 Jun 2018 12:14

Tgt Ion:152 Resp: 732532
Ion Ratio Lower Upper
152 100
115 55.8 28.7 86.1
150 156.3 0.0 351.0



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: 12.51 min Scan# 3396

Delta R.T. 0.00 min

Lab File: VN049583.D

Acq: 28 Jun 2018 12:14

Instrument :

MSVOA_N

ClientSampleId :

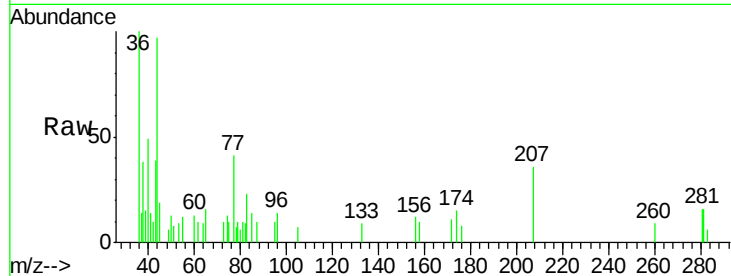
Tot Ion: 83 Resp: 601

Ion Ratio Lower Upper

83 100

131 0.0 5.0 15.0#

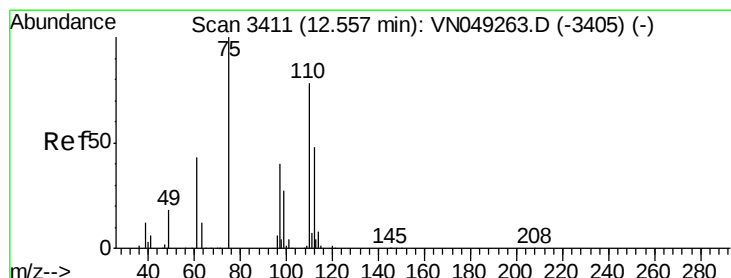
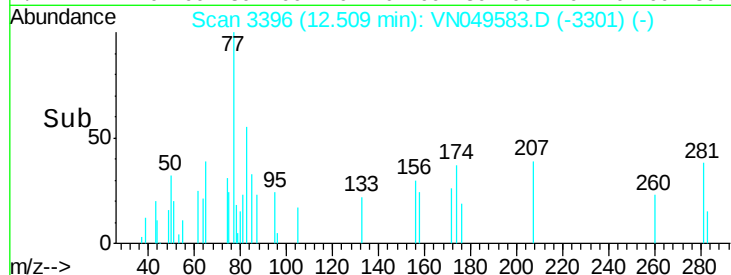
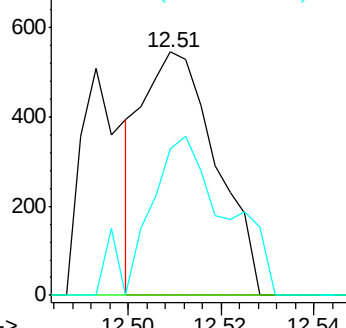
85 69.7 32.0 96.0



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: 35.14 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN049583.D

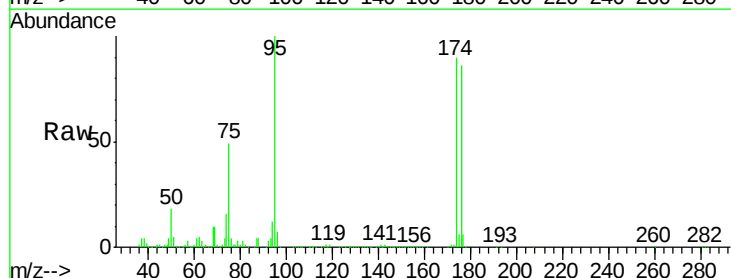
Acq: 28 Jun 2018 12:14

Tgt Ion: 75 Resp: 439252

Ion Ratio Lower Upper

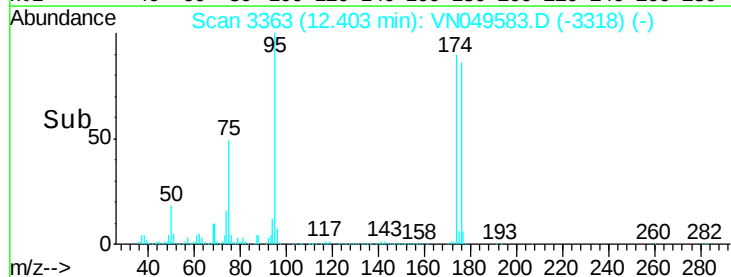
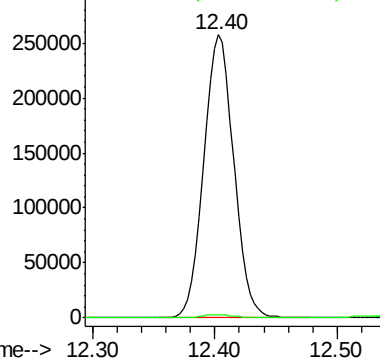
75 100

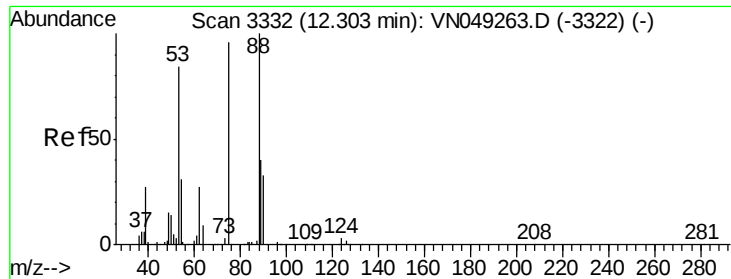
77 1.2 0.0 0.0#



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: 111.07 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN049583.D

Acq: 28 Jun 2018 12:14

Instrument :

MSVOA_N

ClientSampleId :

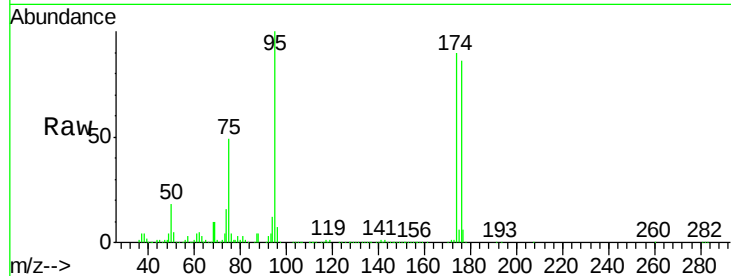
Tot Ion: 75 Resp: 439252

Ion Ratio Lower Upper

75 100

53 0.2 82.7 124.1#

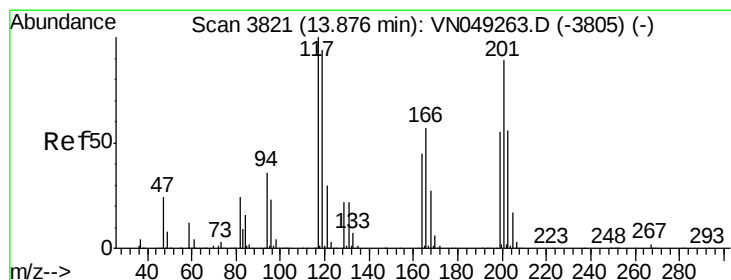
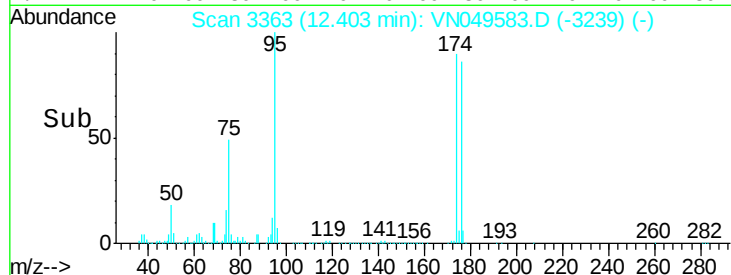
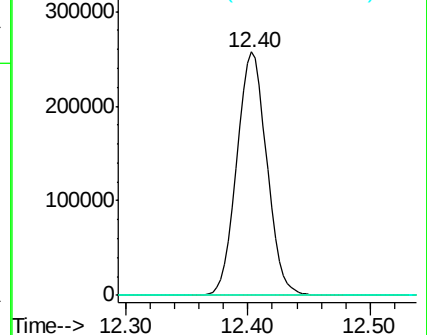
89 0.0 36.5 54.7#



Abundance Ion 74.90 (74.60 to 75.60): VN049583.D (-3363) (-)

Ion 53.00 (52.70 to 53.70): VN049583.D (-3363) (-)

Ion 88.90 (88.60 to 89.60): VN049583.D (-3363) (-)



#90

Hexachloroethane

Concen: Below Cal

RT: 13.76 min Scan# 3784

Delta R.T. -0.12 min

Lab File: VN049583.D

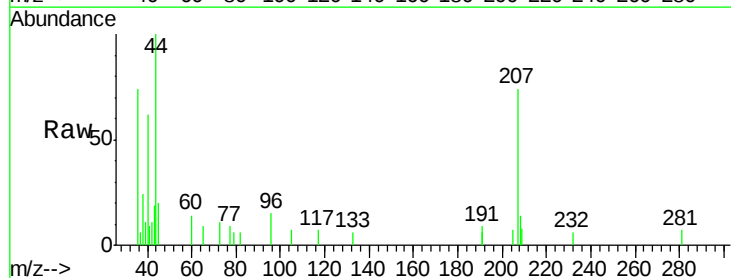
Acq: 28 Jun 2018 12:14

Tgt Ion: 117 Resp: 65

Ion Ratio Lower Upper

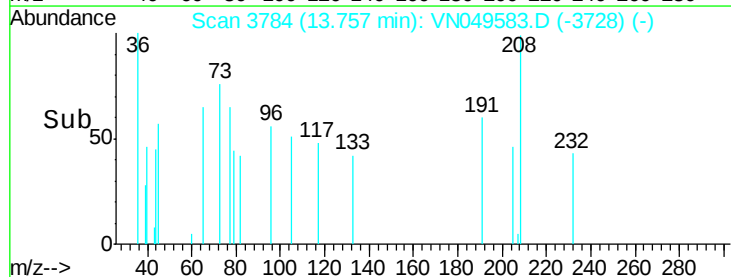
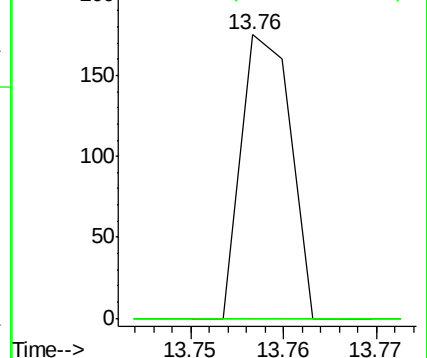
117 100

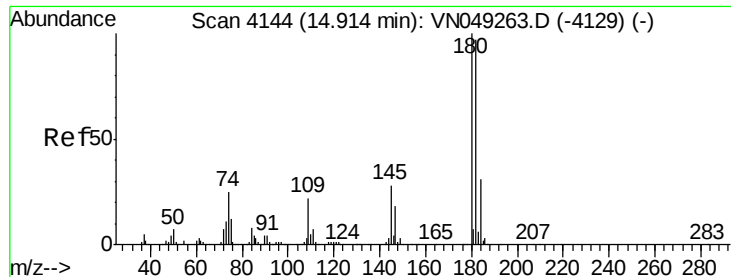
201 0.0 40.1 120.2#



Abundance Ion 116.80 (116.50 to 117.50): VN049583.D (-3784) (-)

Ion 200.70 (200.40 to 201.40): VN049583.D (-3784) (-)

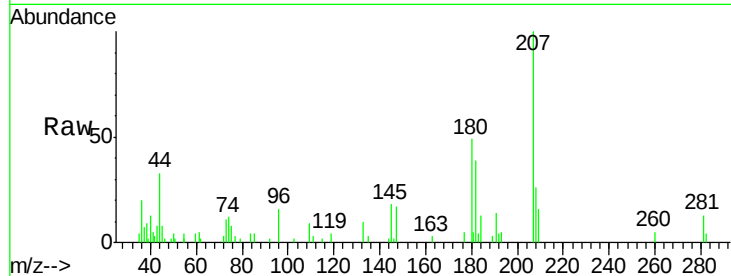




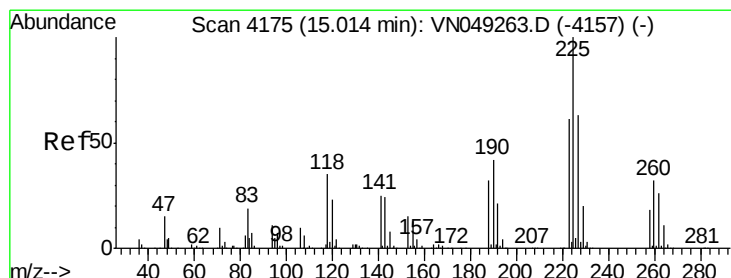
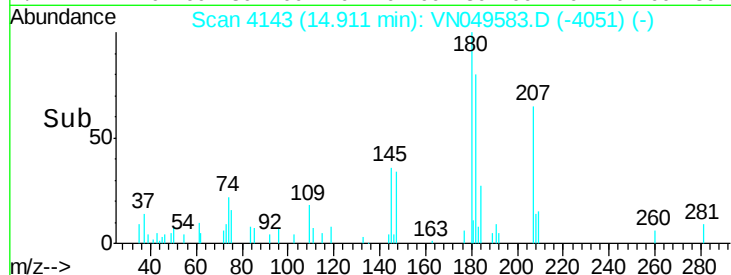
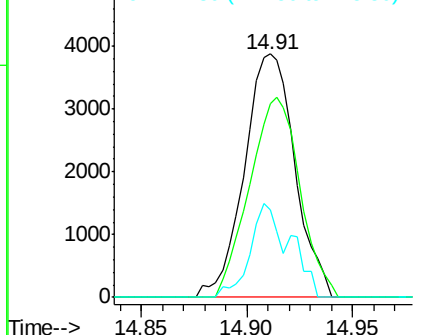
#93
 1,2,4-Trichlorobenzene
 Concen: 5.21 ug/l
 RT: 14.91 min Scan# 4143
 Delta R.T. -0.00 min
 Lab File: VN049583.D
 Acq: 28 Jun 2018 12:14

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion:180 Resp: 6449
 Ion Ratio Lower Upper
 180 100
 182 81.9 46.9 140.8
 145 30.5 14.7 44.1

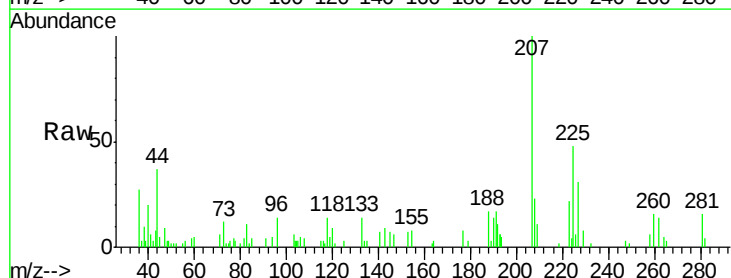


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

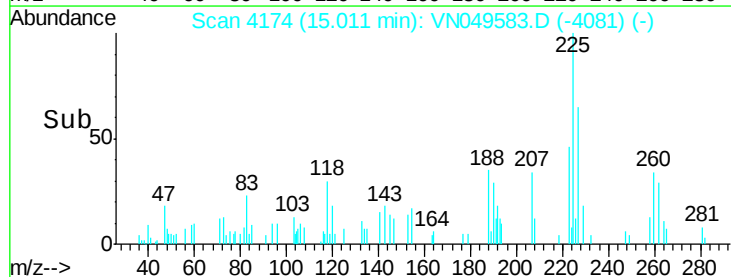
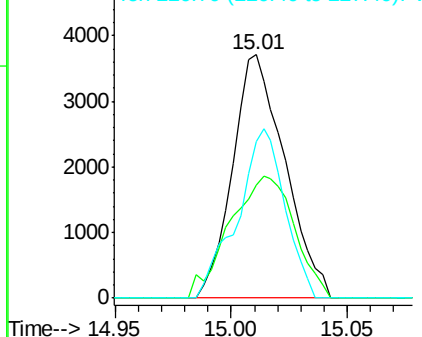


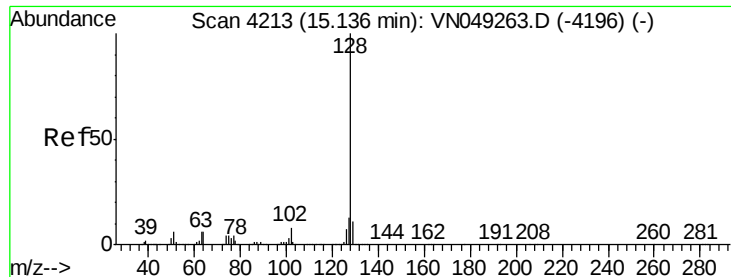
#94
 Hexachlorobutadiene
 Concen: Below Cal
 RT: 15.01 min Scan# 4174
 Delta R.T. -0.00 min
 Lab File: VN049583.D
 Acq: 28 Jun 2018 12:14

Tgt Ion:225 Resp: 5795
 Ion Ratio Lower Upper
 225 100
 223 62.1 32.1 96.3
 227 63.2 31.8 95.3



Abundance Ion 224.70 (224.40 to 225.40): V
 Ion 222.70 (222.40 to 223.40): V
 Ion 226.70 (226.40 to 227.40): V





#95

Naphthalene

Concen: 2.74 ug/l

RT: 15.14 min Scan# 4213

Delta R.T. 0.00 min

Lab File: VN049583.D

Acq: 28 Jun 2018 12:14

Instrument :

MSVOA_N

ClientSampled :

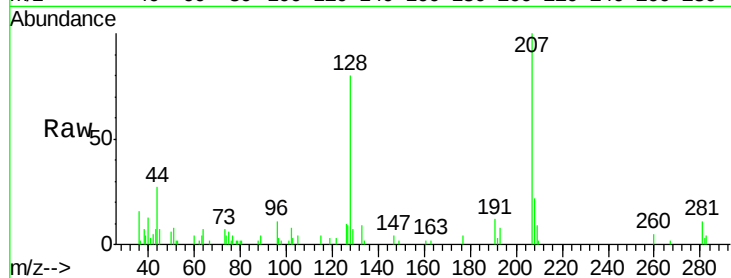
Tot Ion:128 Resp: 13498

Ion Ratio Lower Upper

128 100

127 7.9 10.6 16.0#

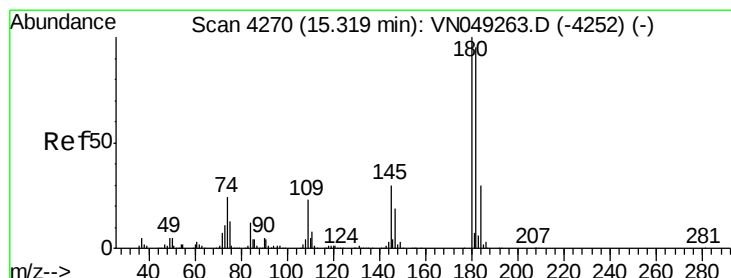
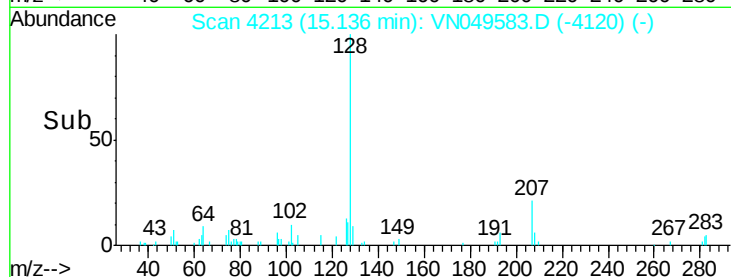
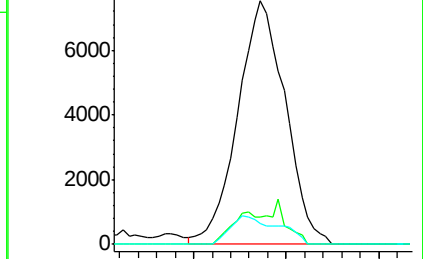
129 11.8 8.5 12.7



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: 3.98 ug/l

RT: 15.32 min Scan# 4269

Delta R.T. -0.00 min

Lab File: VN049583.D

Acq: 28 Jun 2018 12:14

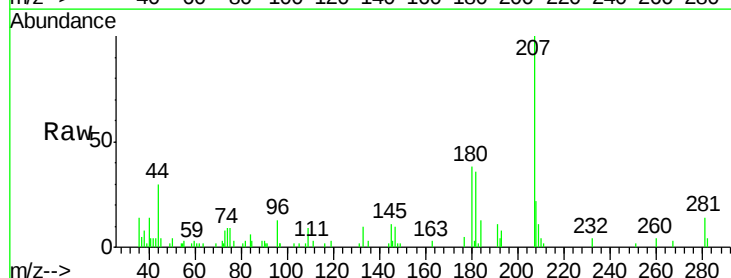
Tgt Ion:180 Resp: 6886

Ion Ratio Lower Upper

180 100

182 86.4 47.3 141.8

145 31.6 15.6 46.7



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

