

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN062818\
 Data File : VN049616.D
 Acq On : 29 Jun 2018 3:26
 Operator : MD\SY
 Sample : PB110667TB
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 29 04:22:32 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	1150554	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1864484	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1536157	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	561602	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	759361	49.76	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.52%	
35) Dibromofluoromethane	7.59	113	637276	42.25	ug/l	0.00
Spiked Amount	50.000		Recovery	=	84.50%	
50) Toluene-d8	10.09	98	2492283	43.39	ug/l	0.00
Spiked Amount	50.000		Recovery	=	86.78%	
62) 4-Bromofluorobenzene	12.40	95	716176	37.71	ug/l	0.00
Spiked Amount	50.000		Recovery	=	75.42%	

Target Compounds

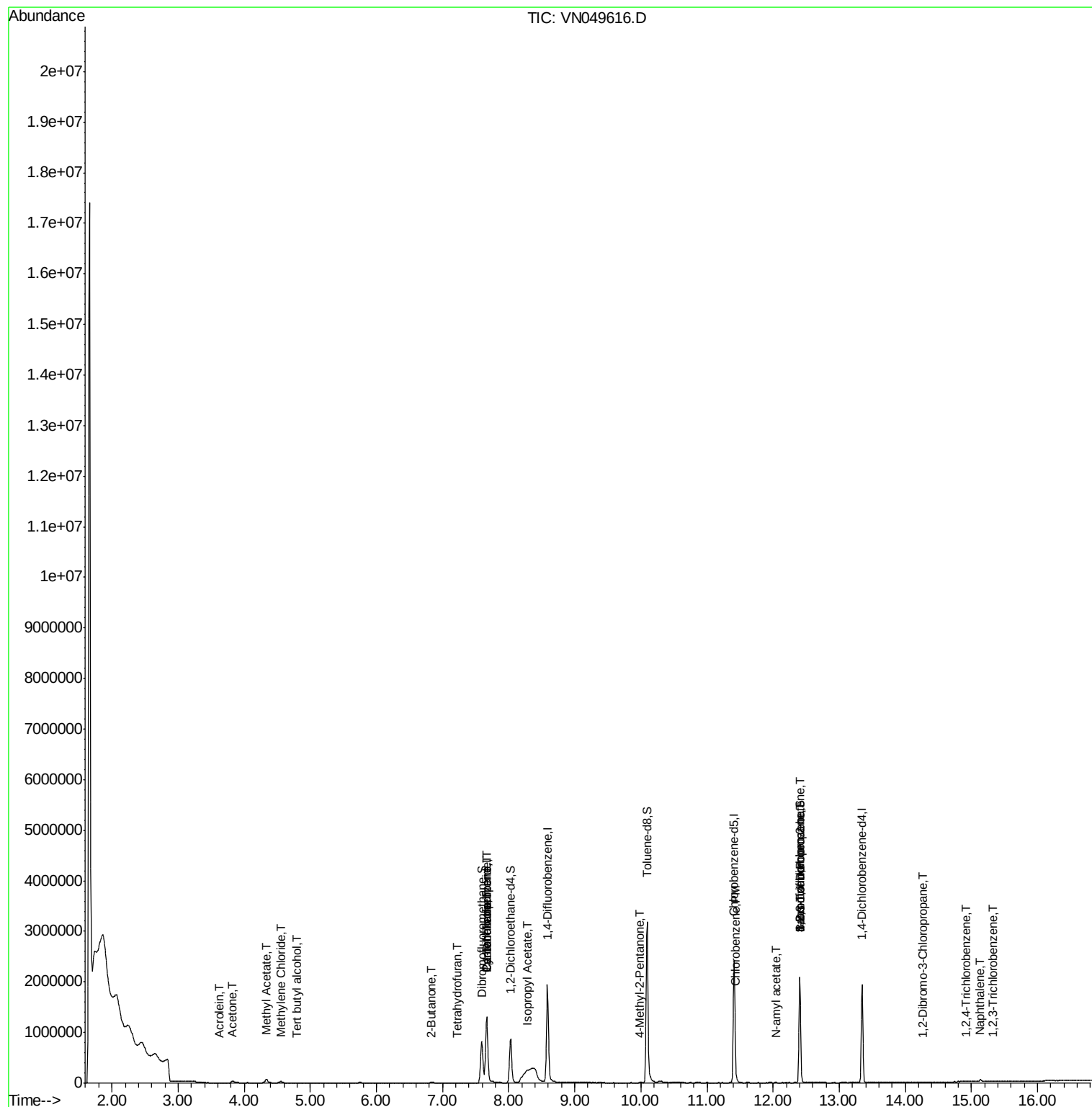
						Qvalue
11) Tert butyl alcohol	4.81	59	536	0.60	ug/l #	70
13) Acrolein	3.62	56	1547	1.65	ug/l #	62
16) Acetone	3.82	43	61485	16.59	ug/l	93
18) Methyl Acetate	4.33	43	131680	11.66	ug/l	95
20) Methylene Chloride	4.55	84	19678	1.27	ug/l #	79
25) 2-Butanone	6.83	43	2697	0.54	ug/l #	81
29) Tetrahydrofuran	7.23	42	2456	0.77	ug/l #	74
31) Cyclohexane	7.66	56	20594	0.74	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	77202	3.61	ug/l #	51
38) Carbon Tetrachloride	7.67	117	104344	4.72	ug/l #	16
43) Isopropyl Acetate	8.27	43	371081	16.72	ug/l #	64
51) 4-Methyl-2-Pentanone	9.98	43	3825	0.33	ug/l	92
65) Chlorobenzene	11.44	112	11768	0.30	ug/l	93
71) Bromoform	12.41	173	5416	0.56	ug/l #	1
74) N-amyl acetate	12.04	43	2681	0.22	ug/l #	49
75) 1,1,2,2-Tetrachloroethane	12.40	83	563	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	349313	36.45	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	349313	115.21	ug/l #	9
90) Hexachloroethane	13.86	117	70	Below Cal	#	9
92) 1,2-Dibromo-3-Chloropropan	14.26	75	769	0.45	ug/l #	4
93) 1,2,4-Trichlorobenzene	14.91	180	636	4.80	ug/l	69
94) Hexachlorobutadiene	15.01	225	67	Below Cal	#	18
95) Naphthalene	15.14	128	27780	3.86	ug/l #	96
96) 1,2,3-Trichlorobenzene	15.32	180	560	3.51	ug/l #	64

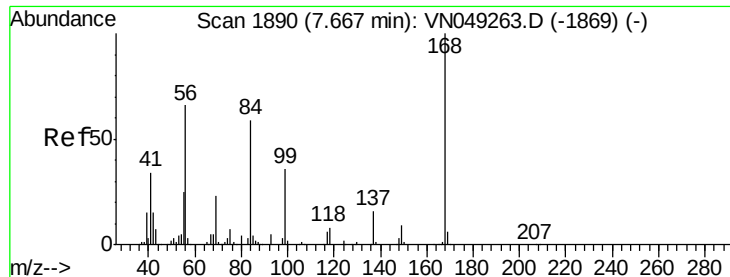
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N061618W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 16 01:02:01 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. 0.00 min

Lab File: VN049616.D

Acq: 29 Jun 2018 3:26

Instrument :

MSVOA_N

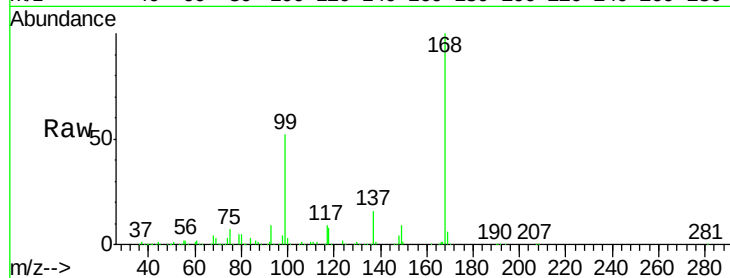
ClientSampled :

Tot Ion:168 Resp: 1150554

Ion Ratio Lower Upper

168 100

99 52.1 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

400000

300000

200000

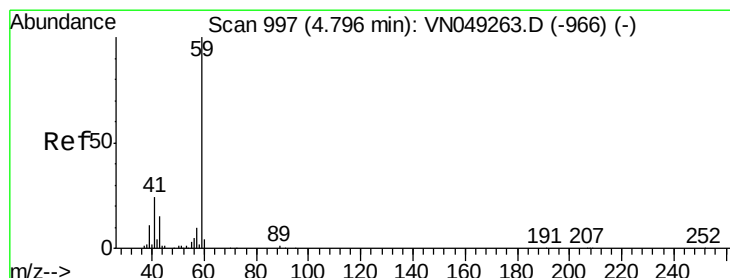
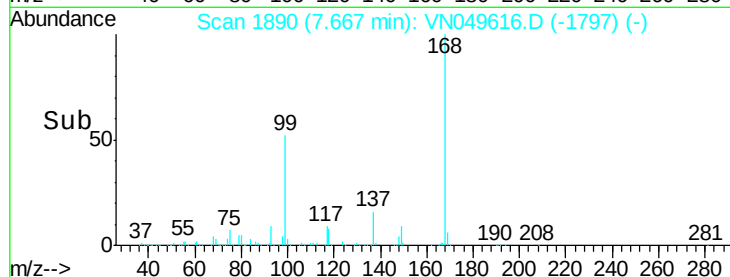
100000

0

7.60

7.70

Time-->



#11

Tert butyl alcohol

Concen: 0.60 ug/l

RT: 4.81 min Scan# 1000

Delta R.T. 0.01 min

Lab File: VN049616.D

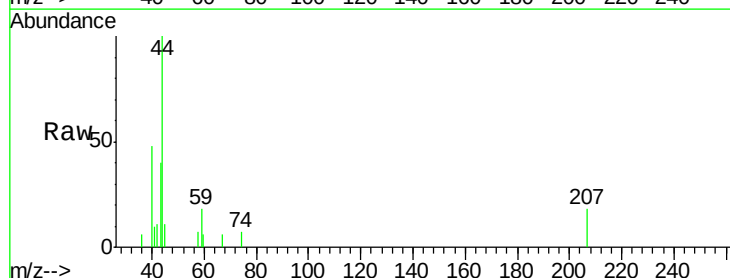
Acq: 29 Jun 2018 3:26

Tgt Ion: 59 Resp: 536

Ion Ratio Lower Upper

59 100

57 0.0 9.0 13.6#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN

4.81

500

400

300

200

100

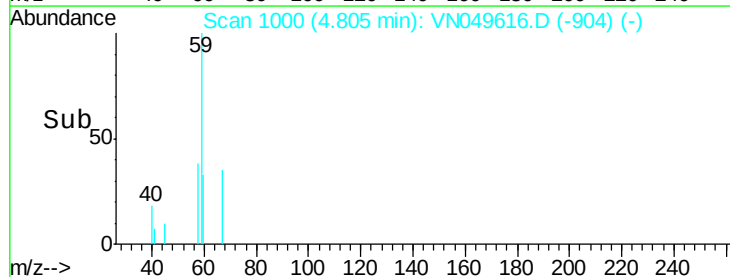
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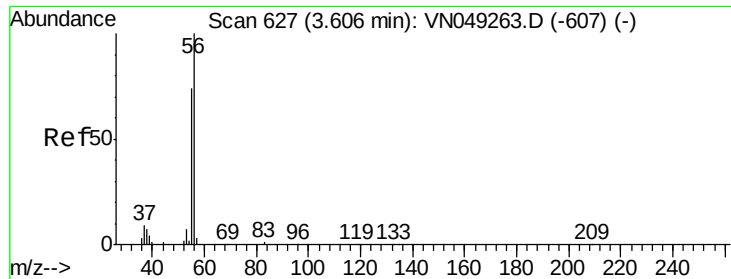
4.78

4.80

4.82

Time-->





#13

Acrolein

Concen: 1.65 ug/l

RT: 3.62 min Scan# 630

Delta R.T. 0.01 min

Lab File: VN049616.D

Acq: 29 Jun 2018 3:26

Instrument :

MSVOA_N

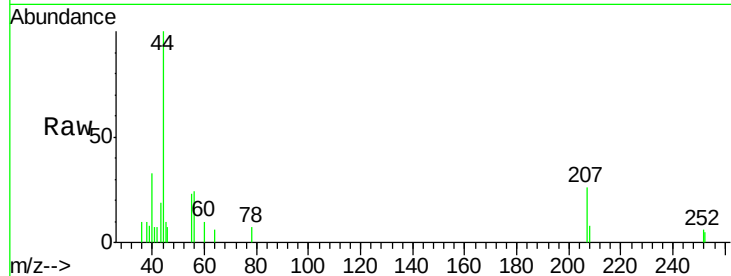
ClientSampleId :

Tot Ion: 56 Resp: 1547

Ion Ratio Lower Upper

56 100

55 39.6 57.1 85.7#

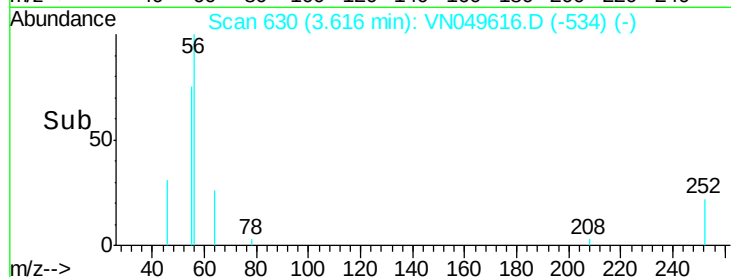


Abundance Ion 56.00 (55.70 to 56.70): VN0

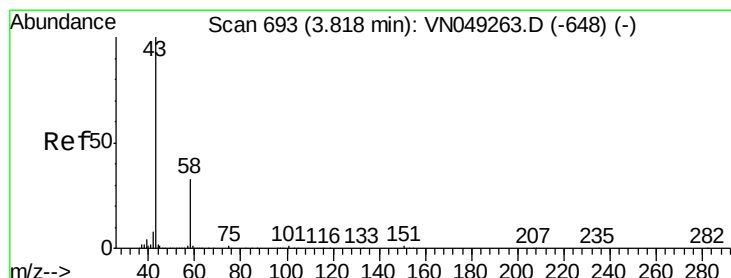
Ion 55.00 (54.70 to 55.70): VN0

3.62

Time-->



Time-->



#16

Acetone

Concen: 16.59 ug/l

RT: 3.82 min Scan# 693

Delta R.T. 0.00 min

Lab File: VN049616.D

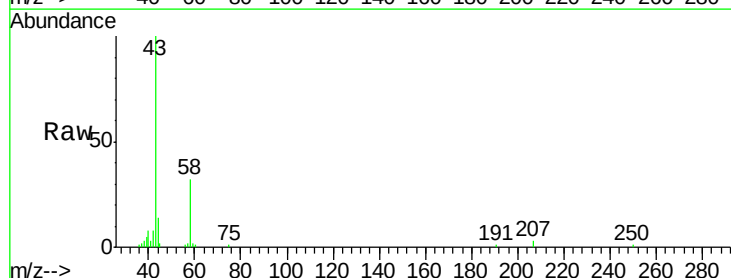
Acq: 29 Jun 2018 3:26

Tgt Ion: 43 Resp: 61485

Ion Ratio Lower Upper

43 100

58 31.7 22.4 33.6

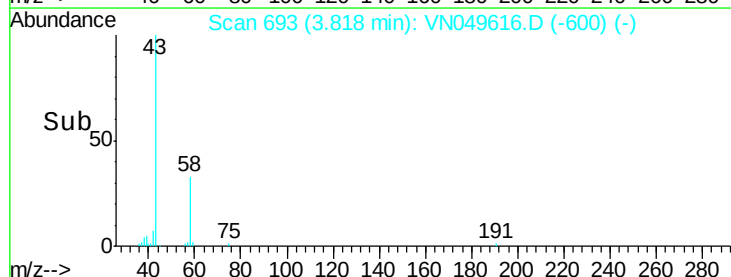


Abundance Ion 43.00 (42.70 to 43.70): VN0

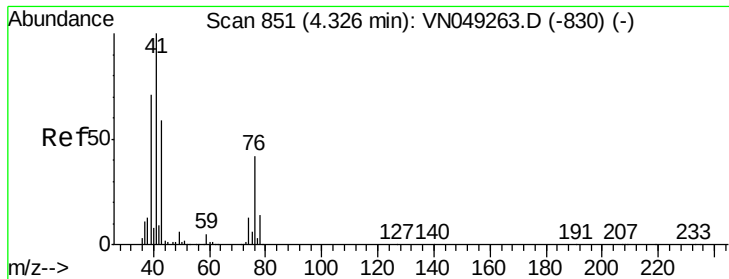
Ion 58.00 (57.70 to 58.70): VN0

3.82

Time-->



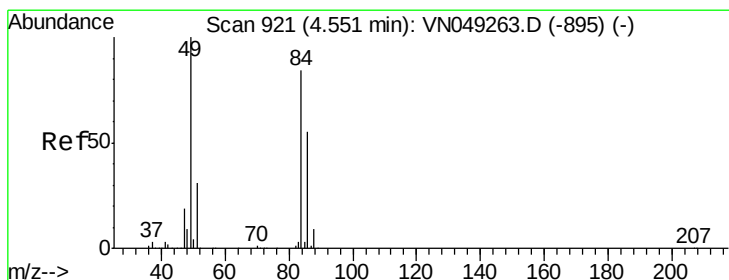
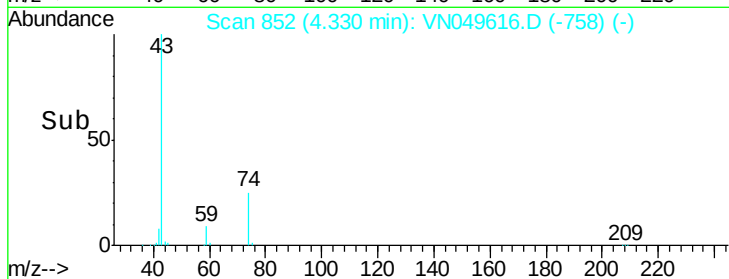
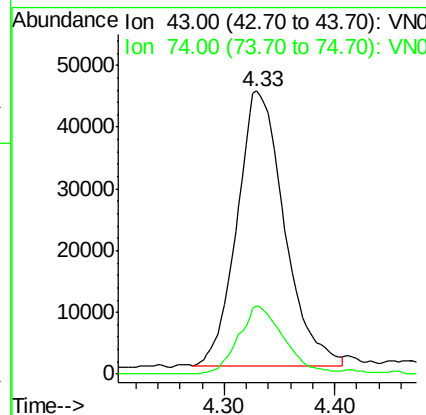
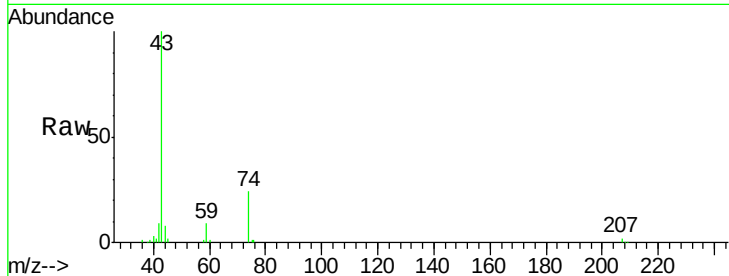
Time-->



#18
Methvl Acetate
Concen: 11.66 ug/l
RT: 4.33 min Scan# 852
Delta R.T. 0.00 min
Lab File: VN049616.D
Acq: 29 Jun 2018 3:26

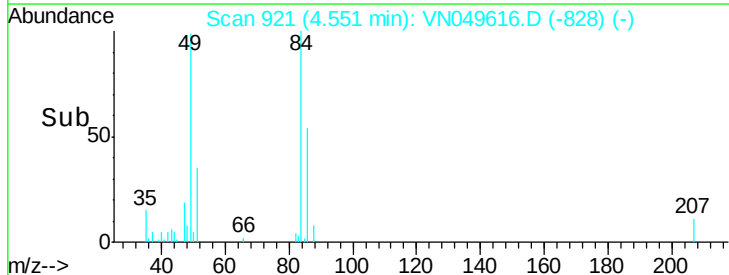
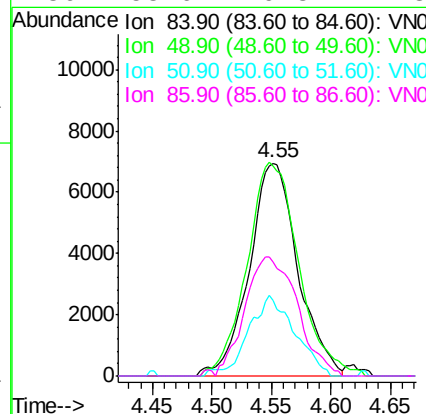
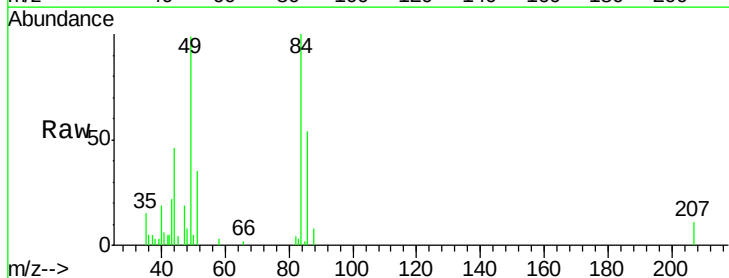
Instrument :
MSVOA_N
ClientSampled :

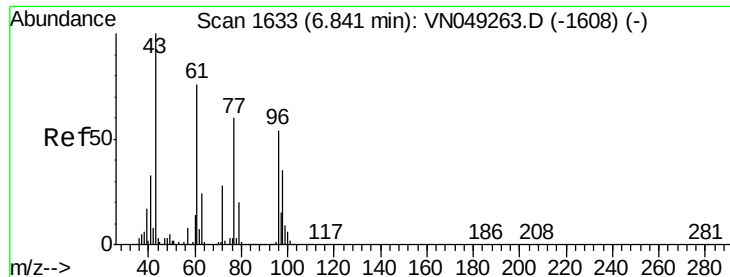
Tot Ion: 43 Resp: 131680
Ion Ratio Lower Upper
43 100
74 23.9 17.4 26.0



#20
Methylene Chloride
Concen: 1.27 ug/l
RT: 4.55 min Scan# 921
Delta R.T. 0.00 min
Lab File: VN049616.D
Acq: 29 Jun 2018 3:26

Tgt Ion: 84 Resp: 19678
Ion Ratio Lower Upper
84 100
49 98.8 106.9 160.3#
51 35.3 32.7 49.1
86 53.6 49.8 74.8

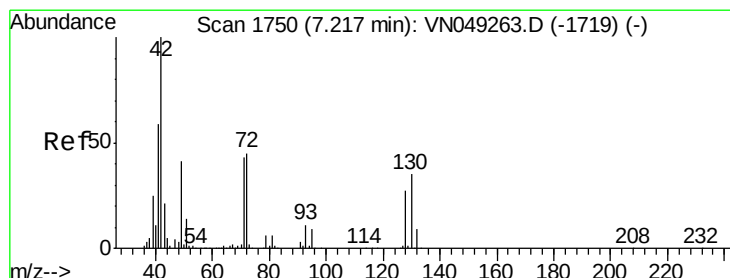
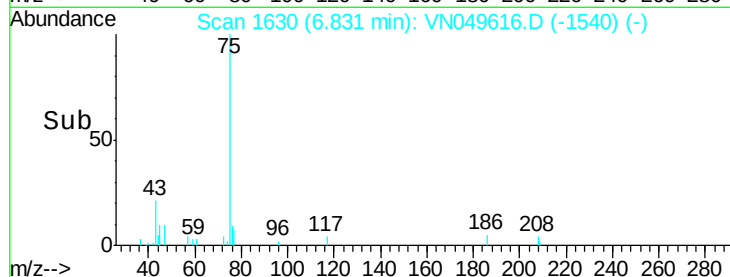
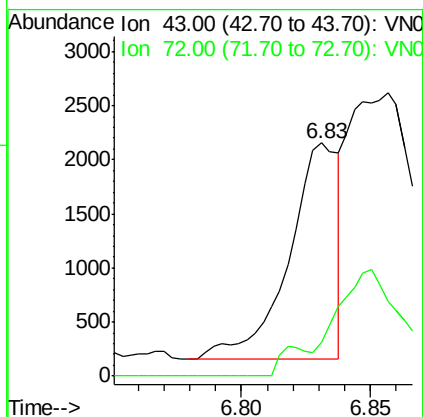
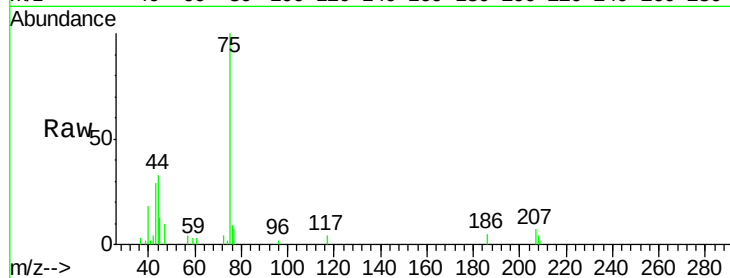




#25
2-Butanone
Concen: 0.54 ug/l
RT: 6.83 min Scan# 1630
Delta R.T. -0.01 min
Lab File: VN049616.D
Acq: 29 Jun 2018 3:26

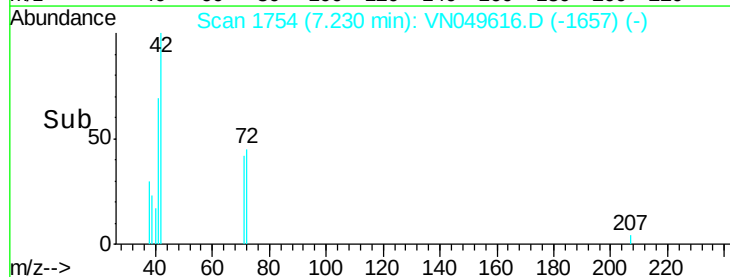
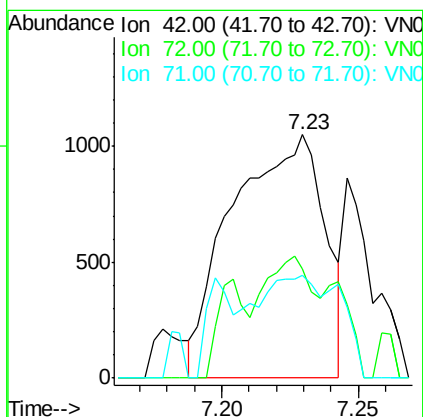
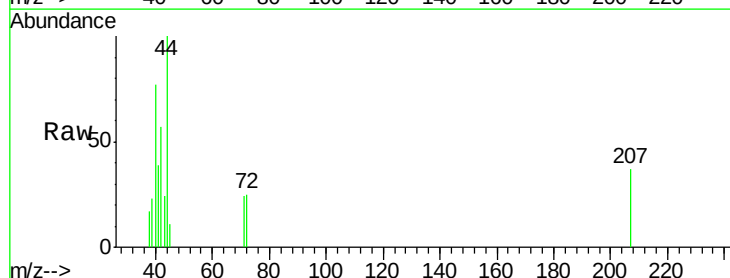
Instrument :
MSVOA_N
ClientSampled :

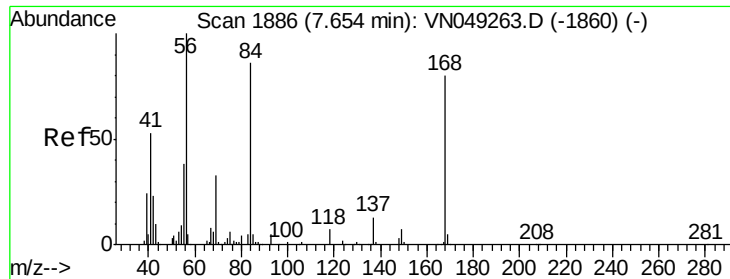
Tot Ion: 43 Resp: 2697
Ion Ratio Lower Upper
43 100
72 15.4 20.2 30.2#



#29
Tetrahydrofuran
Concen: 0.77 ug/l
RT: 7.23 min Scan# 1754
Delta R.T. 0.01 min
Lab File: VN049616.D
Acq: 29 Jun 2018 3:26

Tgt Ion: 42 Resp: 2456
Ion Ratio Lower Upper
42 100
72 14.3 32.2 48.4#
71 32.1 30.5 45.7

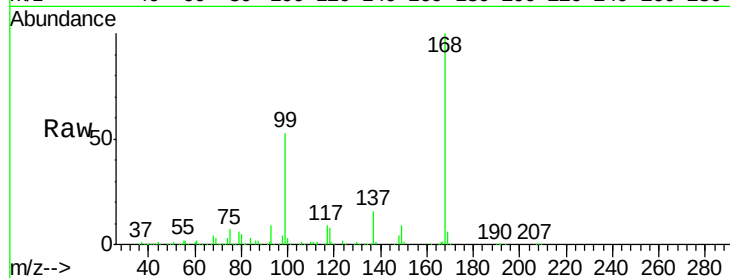




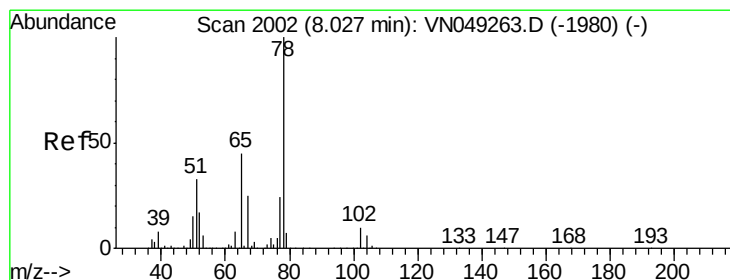
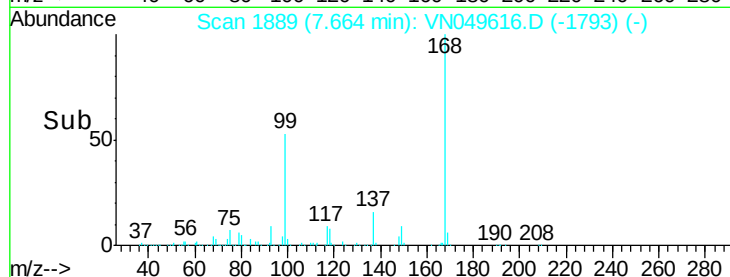
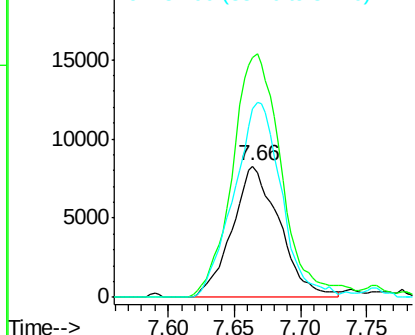
#31
Cyclohexane
Concen: 0.74 ug/l
RT: 7.66 min Scan# 1889
Delta R.T. 0.01 min
Lab File: VN049616.D
Acq: 29 Jun 2018 3:26

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 20594
Ion Ratio Lower Upper
56 100
69 182.4 25.0 37.4#
84 143.3 64.6 96.8#

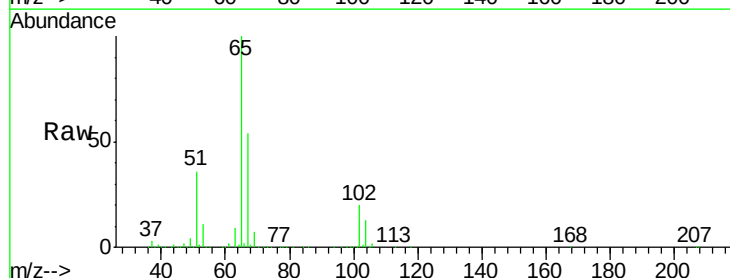


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

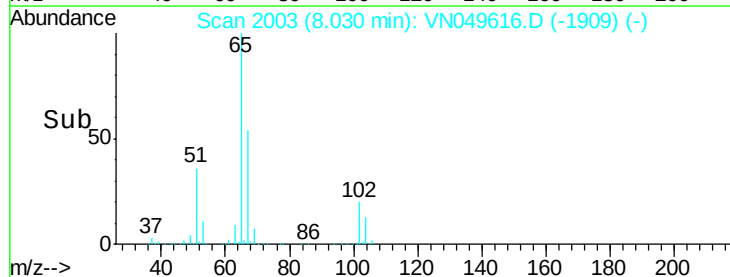
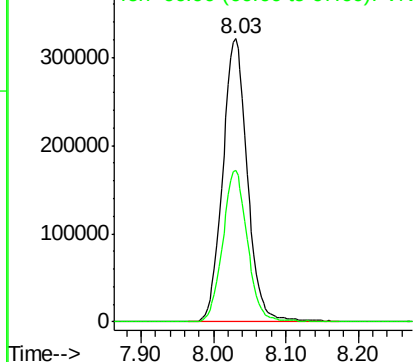


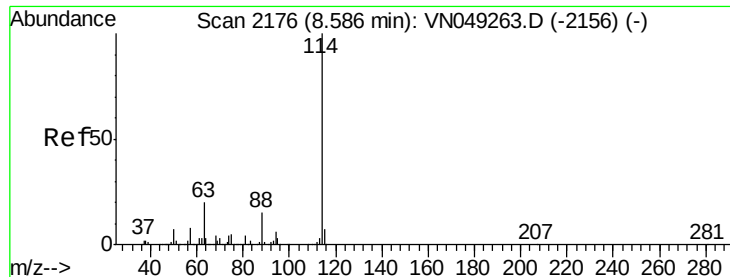
#33
1,2-Dichloroethane-d4
Concen: 49.76 ug/l
RT: 8.03 min Scan# 2003
Delta R.T. 0.00 min
Lab File: VN049616.D
Acq: 29 Jun 2018 3:26

Tgt Ion: 65 Resp: 759361
Ion Ratio Lower Upper
65 100
67 53.4 0.0 103.8



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

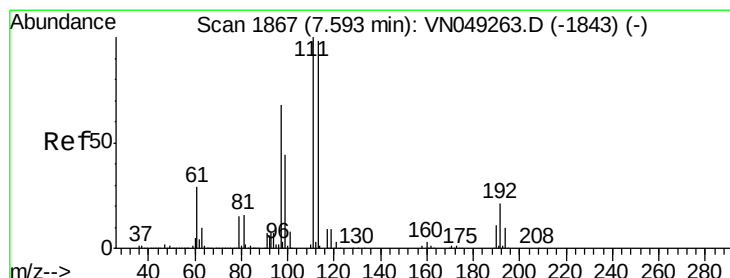
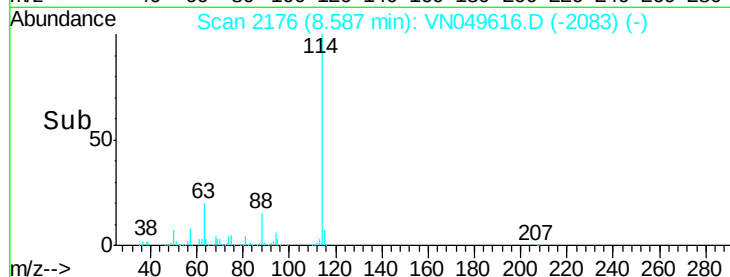
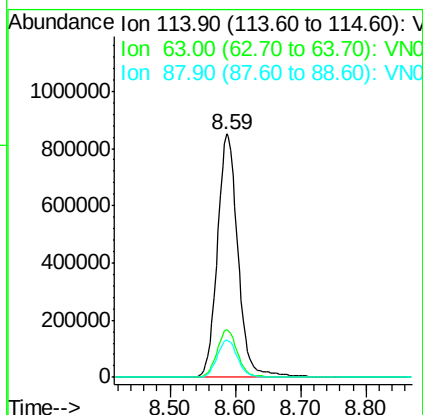
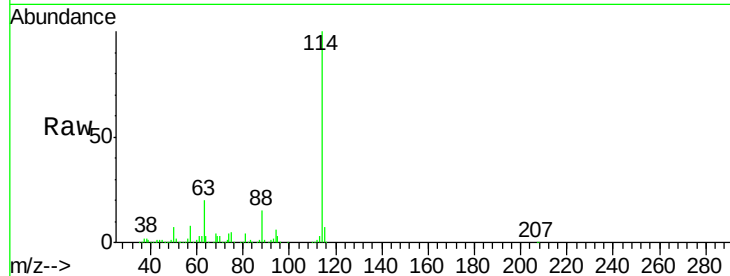




#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2176
 Delta R.T. 0.00 min
 Lab File: VN049616.D
 Acq: 29 Jun 2018 3:26

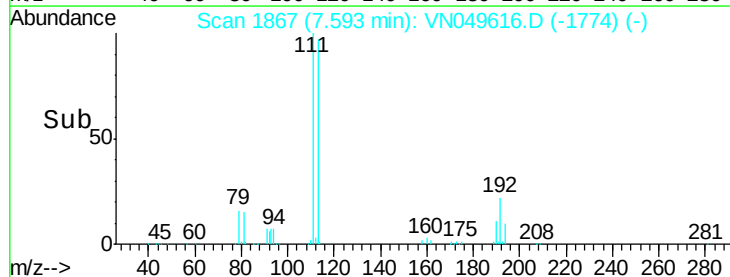
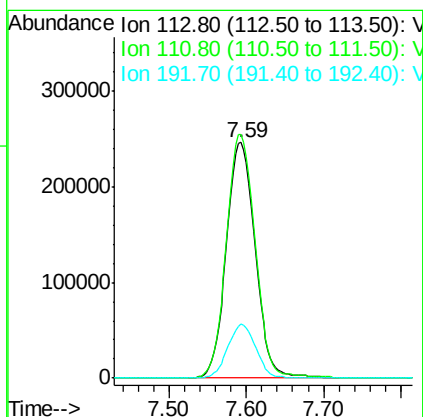
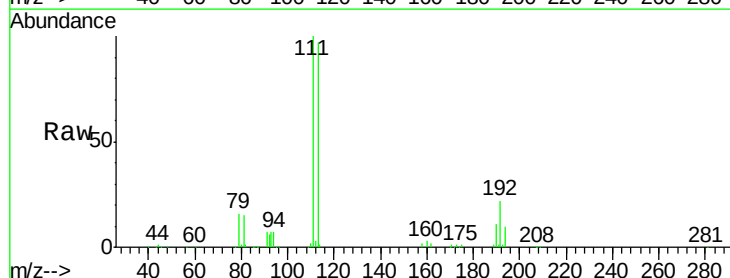
Instrument :
 MSVOA_N
 ClientSampleId :

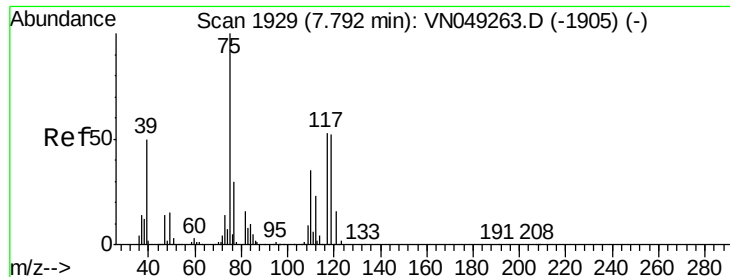
Tot Ion:114 Resp: 1864484
 Ion Ratio Lower Upper
 114 100
 63 19.7 0.0 44.4
 88 15.4 0.0 31.4



#35
 Dibromofluoromethane
 Concen: 42.25 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VN049616.D
 Acq: 29 Jun 2018 3:26

Tgt Ion:113 Resp: 637276
 Ion Ratio Lower Upper
 113 100
 111 103.4 82.4 123.6
 192 22.3 15.0 22.6





#36

1,1-Dichloropropene

Concen: 3.61 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.13 min

Lab File: VN049616.D

Acq: 29 Jun 2018 3:26

Instrument :

MSVOA_N

ClientSampleId :

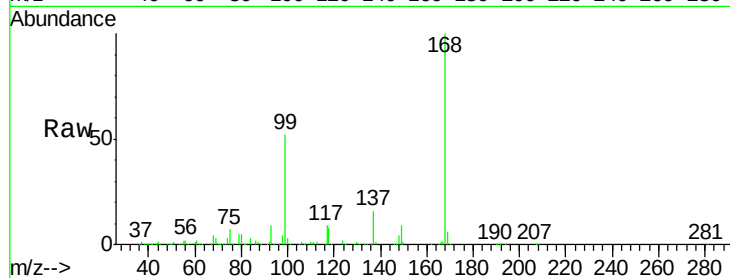
Tot Ion: 75 Resp: 77202

Ion Ratio Lower Upper

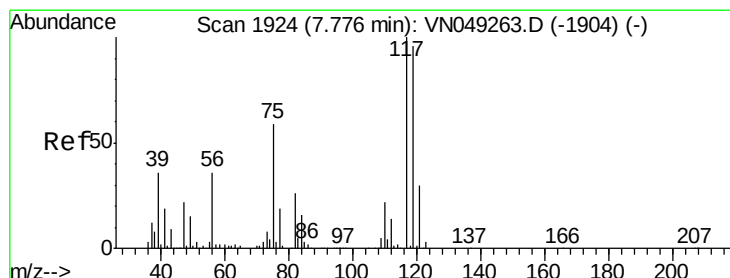
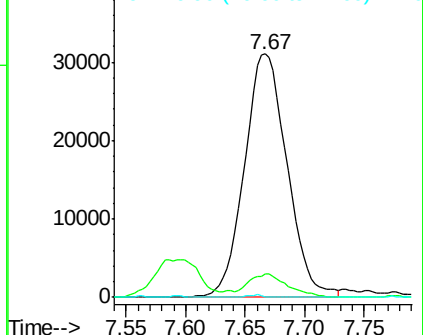
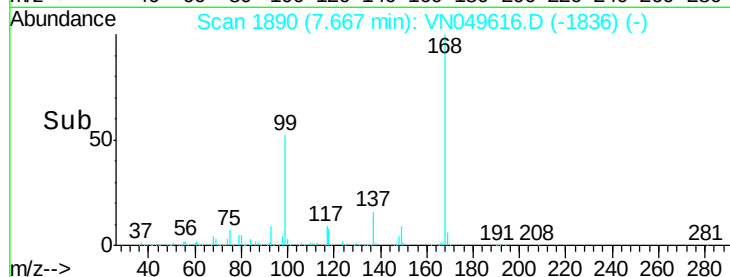
75 100

110 8.9 17.0 50.9#

77 0.3 24.4 36.6#



Abundance Ion 74.90 (74.60 to 75.60): VN049616.D (-1836) (-)



#38

Carbon Tetrachloride

Concen: 4.72 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. -0.11 min

Lab File: VN049616.D

Acq: 29 Jun 2018 3:26

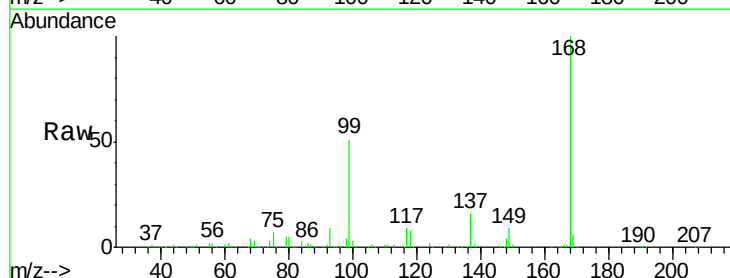
Tgt Ion: 117 Resp: 104344

Ion Ratio Lower Upper

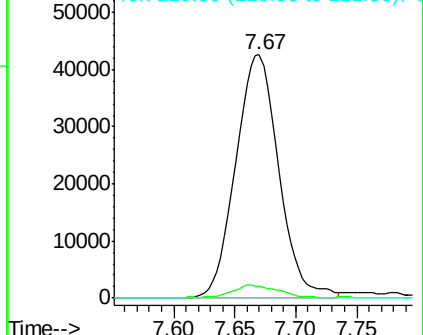
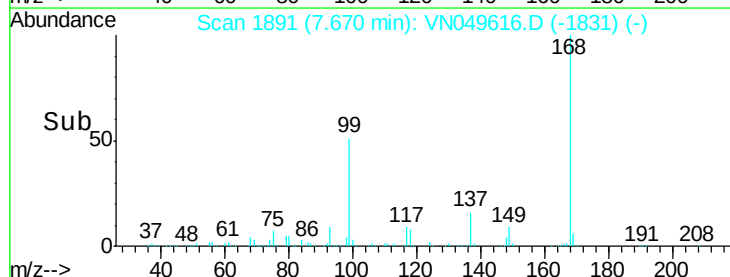
117 100

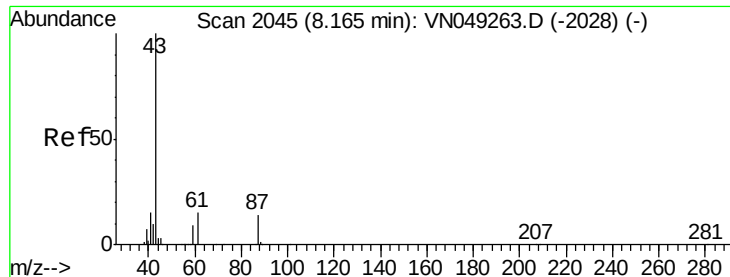
119 4.3 75.6 113.4#

121 0.0 24.7 37.1#



Abundance Ion 116.80 (116.50 to 117.50): VN049616.D (-1831) (-)





#43

Isopropyl Acetate

Concen: 16.72 ug/l

RT: 8.27 min Scan# 2078

Delta R.T. 0.11 min

Lab File: VN049616.D

Acq: 29 Jun 2018 3:26

Instrument :

MSVOA_N

ClientSampleId :

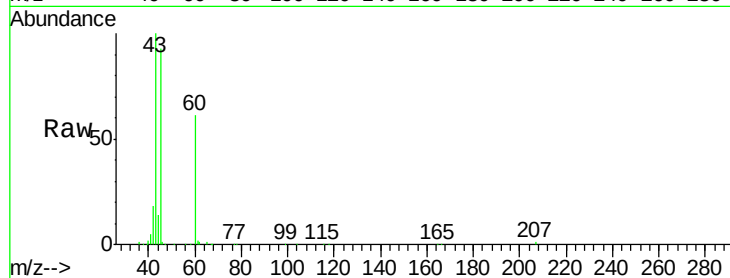
Tot Ion: 43 Resp: 371081

Ion Ratio Lower Upper

43 100

61 0.3 14.2 21.4#

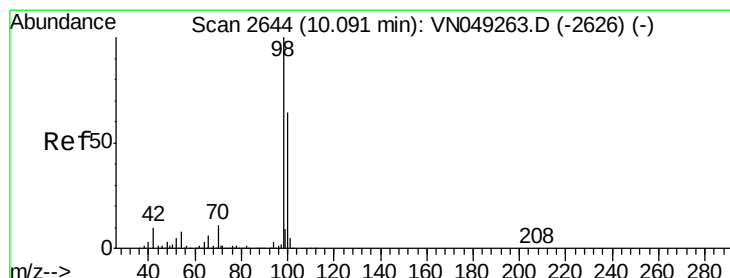
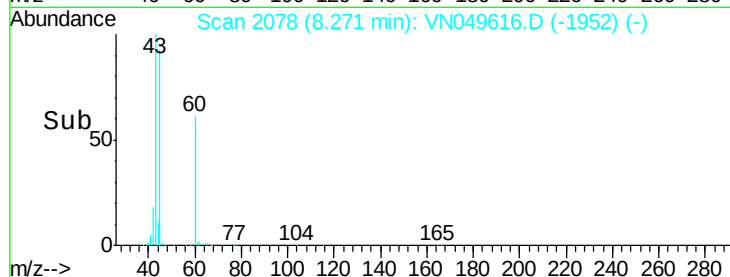
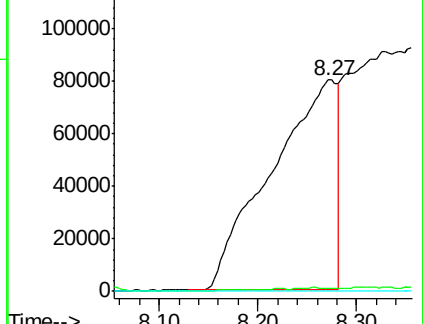
87 0.0 9.4 14.0#



Abundance Ion 43.00 (42.70 to 43.70): VN049616.D (-2078) (-)

Ion 61.00 (60.70 to 61.70): VN049616.D (-2078) (-)

Ion 87.00 (86.70 to 87.70): VN049616.D (-2078) (-)



#50

Toluene-d8

Concen: 43.39 ug/l

RT: 10.09 min Scan# 2645

Delta R.T. 0.00 min

Lab File: VN049616.D

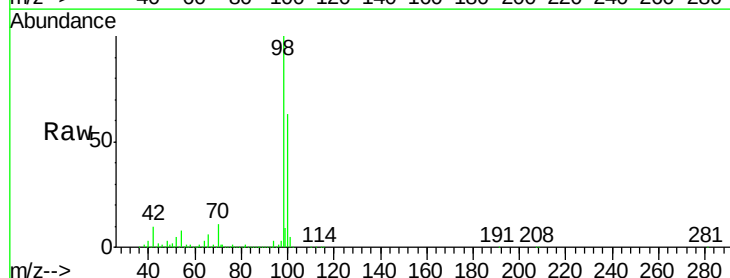
Acq: 29 Jun 2018 3:26

Tgt Ion: 98 Resp: 2492283

Ion Ratio Lower Upper

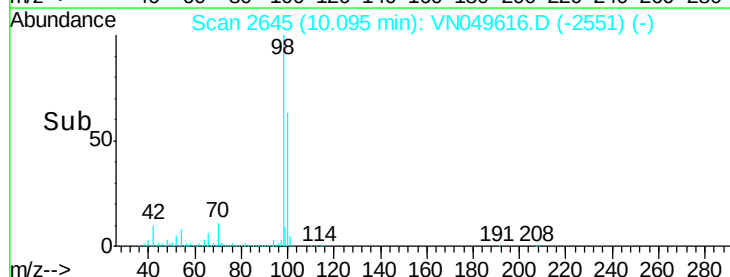
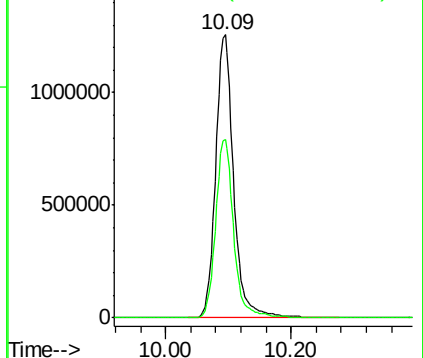
98 100

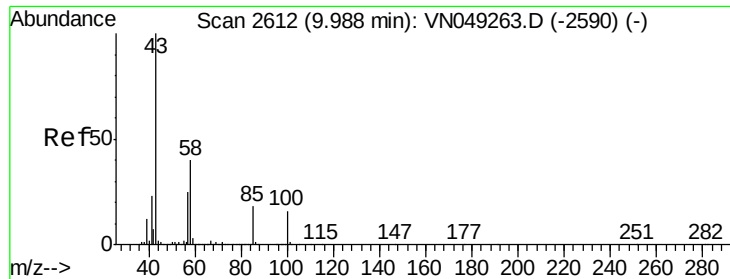
100 63.5 49.8 74.8



Abundance Ion 98.00 (97.70 to 98.70): VN049616.D (-2645) (-)

Ion 100.00 (99.70 to 100.70): VN049616.D (-2645) (-)

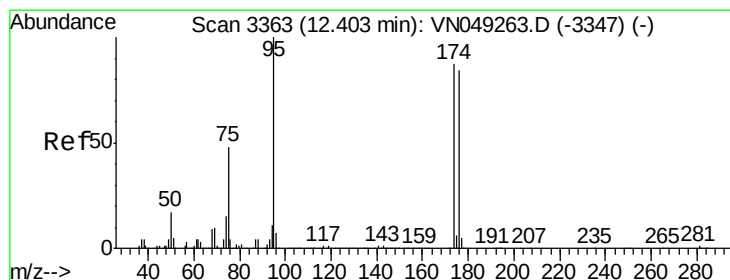
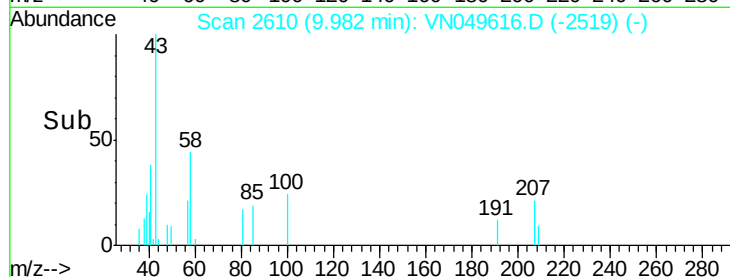
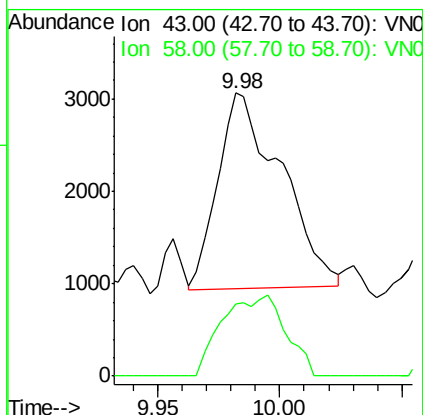
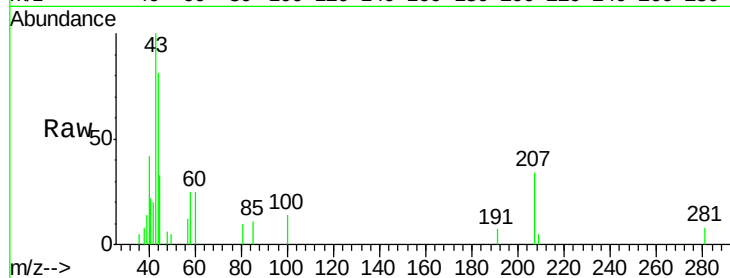




#51
4-Methyl-2-Pentanone
Concen: 0.33 ug/l
RT: 9.98 min Scan# 2610
Delta R.T. -0.01 min
Lab File: VN049616.D
Acq: 29 Jun 2018 3:26

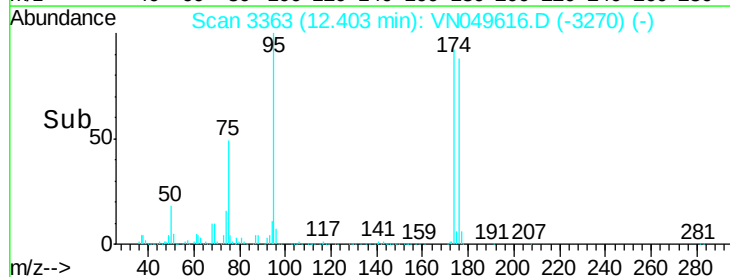
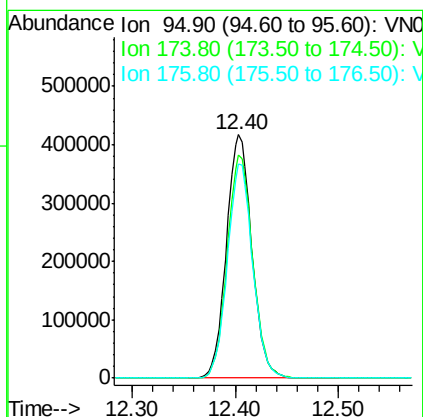
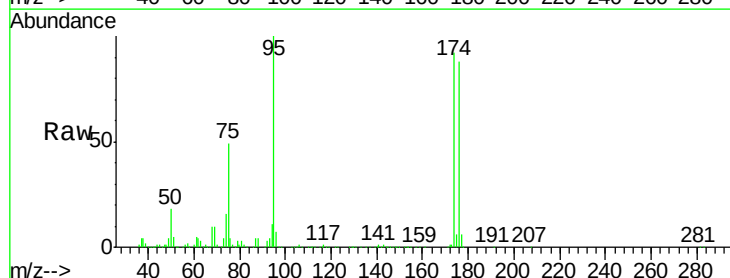
Instrument :
MSVOA_N
ClientSampled :

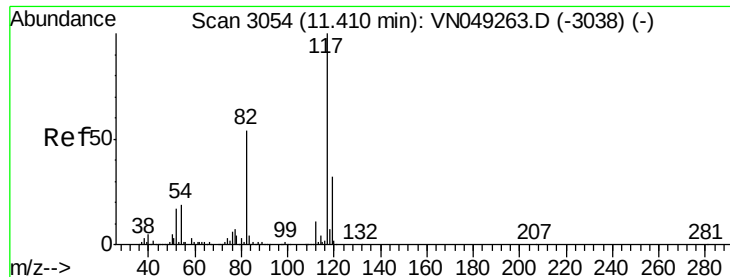
Tot Ion: 43 Resp: 3825
Ion Ratio Lower Upper
43 100
58 41.2 29.0 43.6



#62
4-Bromofluorobenzene
Concen: 37.71 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.00 min
Lab File: VN049616.D
Acq: 29 Jun 2018 3:26

Tgt Ion: 95 Resp: 716176
Ion Ratio Lower Upper
95 100
174 92.1 0.0 165.6
176 87.4 0.0 157.4

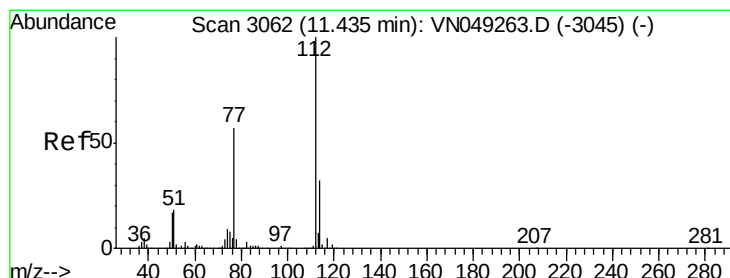
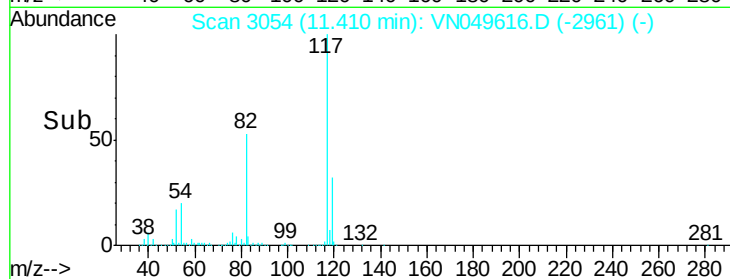
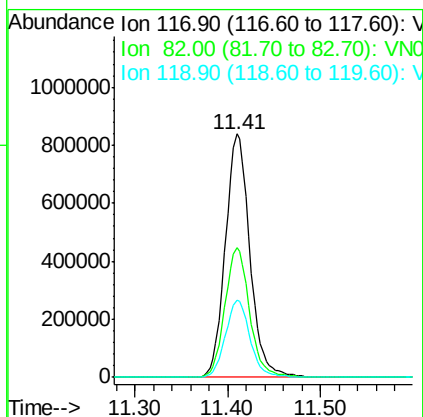
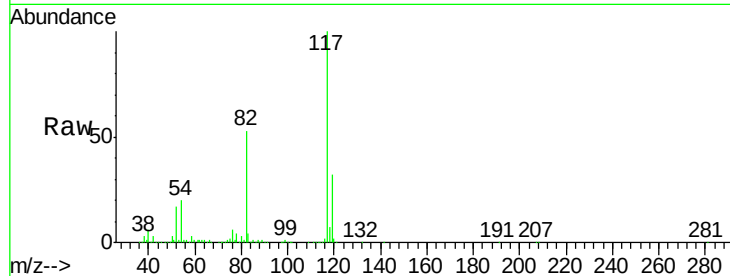




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN049616.D
Acq: 29 Jun 2018 3:26

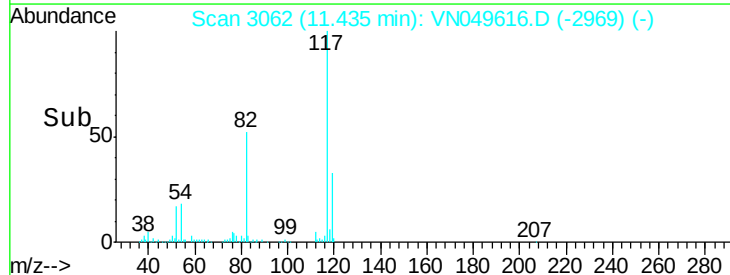
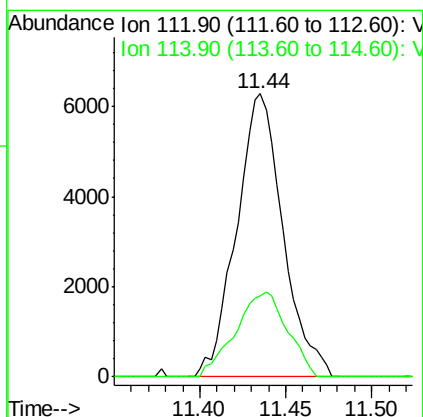
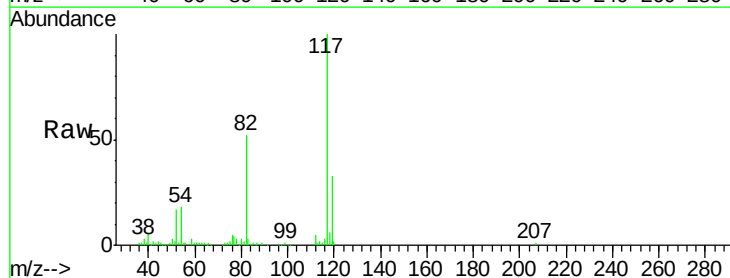
Instrument :
MSVOA_N
ClientSampled :

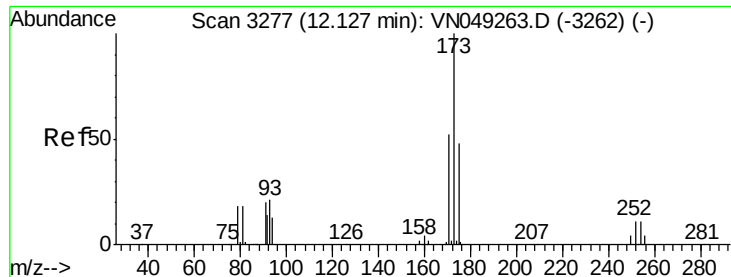
Tot Ion:117 Resp: 1536157
Ion Ratio Lower Upper
117 100
82 53.2 45.9 68.9
119 31.7 25.5 38.3



#65
Chlorobenzene
Concen: 0.30 ug/l
RT: 11.44 min Scan# 3062
Delta R.T. 0.00 min
Lab File: VN049616.D
Acq: 29 Jun 2018 3:26

Tgt Ion:112 Resp: 11768
Ion Ratio Lower Upper
112 100
114 28.8 26.2 39.4

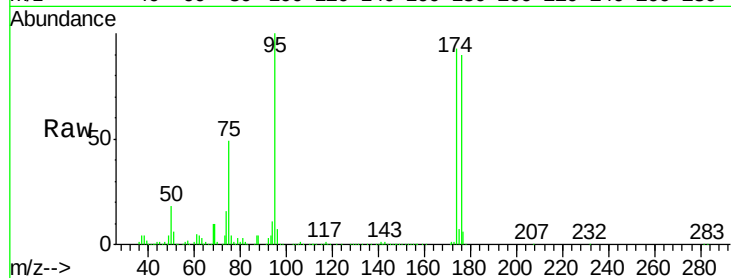




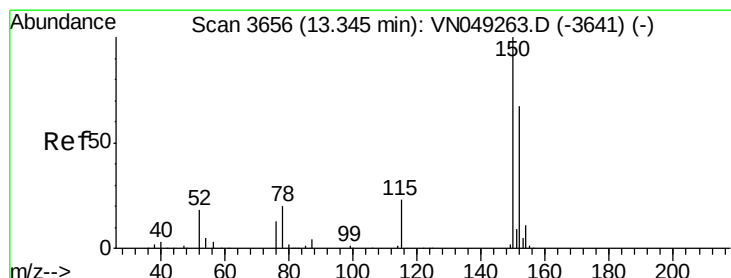
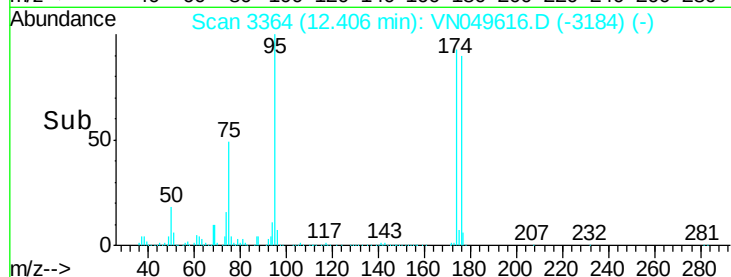
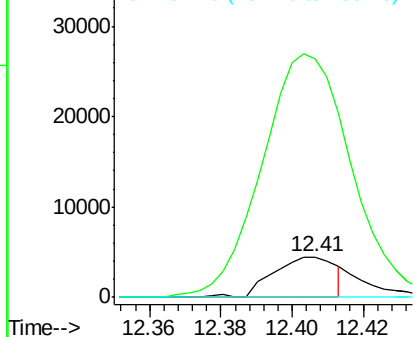
#71
Bromoform
Concen: 0.56 ug/l
RT: 12.41 min Scan# 3364
Delta R.T. 0.28 min
Lab File: VN049616.D
Acq: 29 Jun 2018 3:26

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:173 Resp: 5416
Ion Ratio Lower Upper
173 100
175 702.5 24.5 73.5#
254 0.0 0.1 0.1#

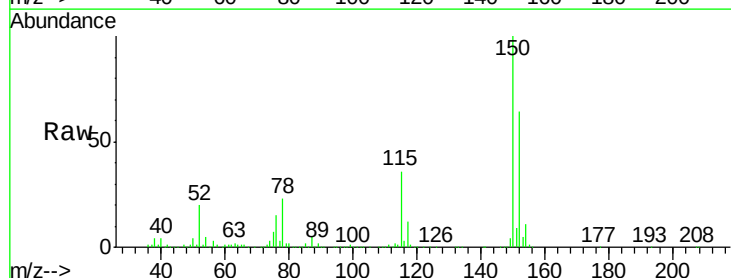


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

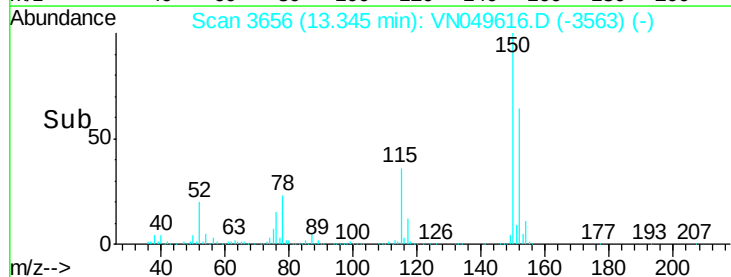
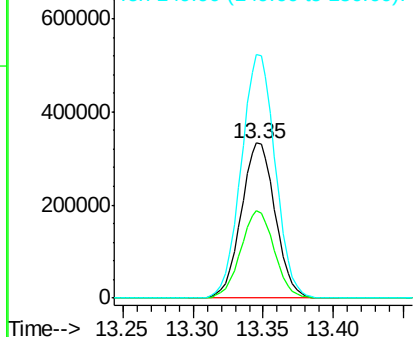


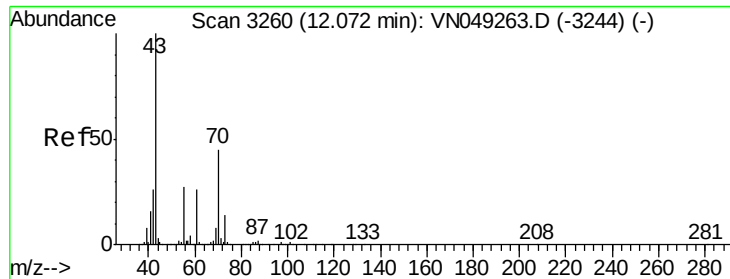
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.35 min Scan# 3656
Delta R.T. 0.00 min
Lab File: VN049616.D
Acq: 29 Jun 2018 3:26

Tgt Ion:152 Resp: 561602
Ion Ratio Lower Upper
152 100
115 55.7 28.7 86.1
150 157.0 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





#74

N-amvl acetate

Concen: 0.22 ug/l

RT: 12.04 min Scan# 3250

Delta R.T. -0.03 min

Lab File: VN049616.D

Acq: 29 Jun 2018 3:26

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 43 Resp: 2681

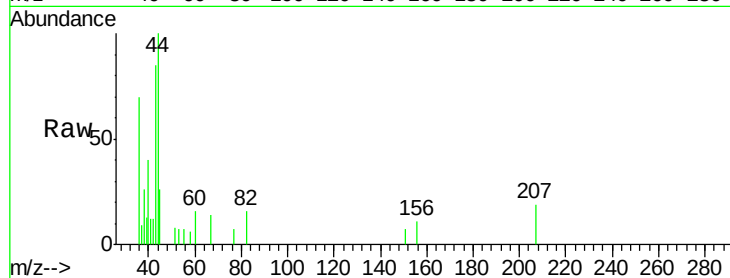
Ion Ratio Lower Upper

43 100

70 0.0 30.3 45.5#

55 6.4 19.4 29.2#

61 0.0 17.8 26.6#

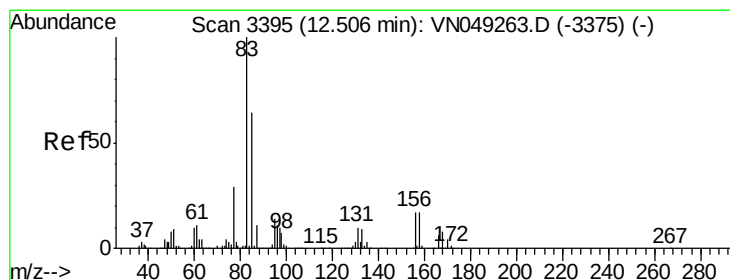
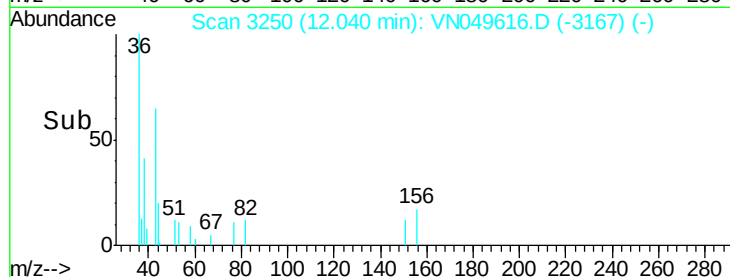
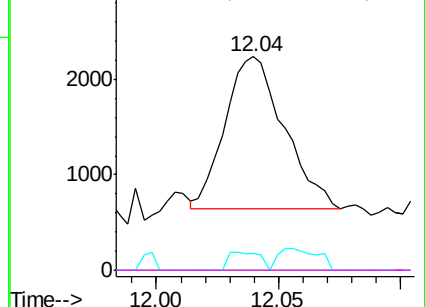


Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 70.00 (69.70 to 70.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

Ion 61.00 (60.70 to 61.70): VNO



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.40 min Scan# 3363

Delta R.T. -0.10 min

Lab File: VN049616.D

Acq: 29 Jun 2018 3:26

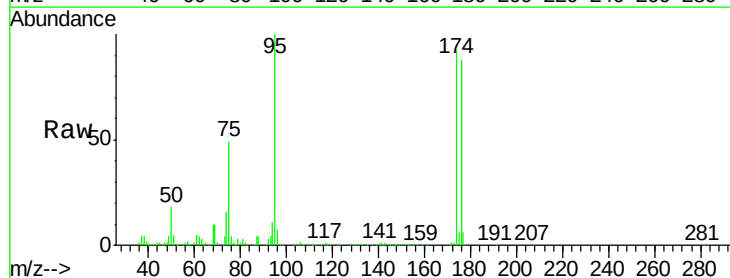
Tgt Ion: 83 Resp: 563

Ion Ratio Lower Upper

83 100

131 215.8 5.0 15.0#

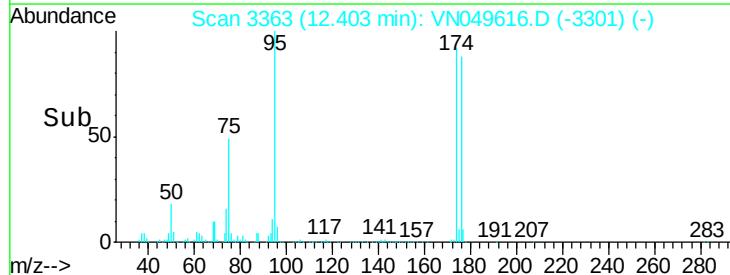
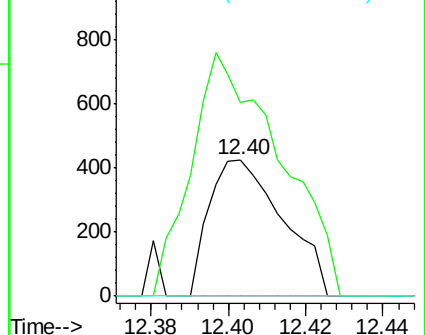
85 0.0 32.0 96.0#

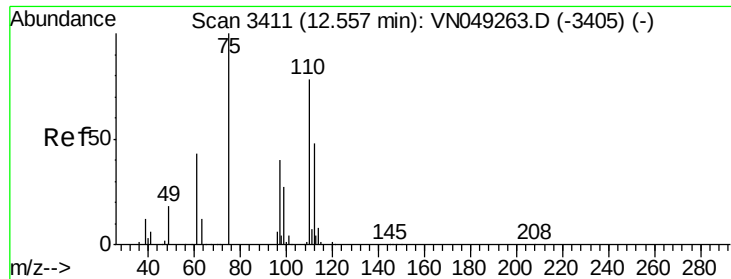


Abundance Ion 82.90 (82.60 to 83.60): VNO

Ion 130.80 (130.50 to 131.50): VNO

Ion 84.90 (84.60 to 85.60): VNO





#76

1,2,3-Trichloropropane

Concen: 36.45 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN049616.D

Acq: 29 Jun 2018 3:26

Instrument :

MSVOA_N

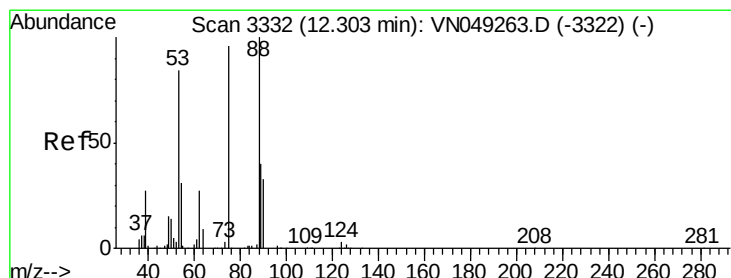
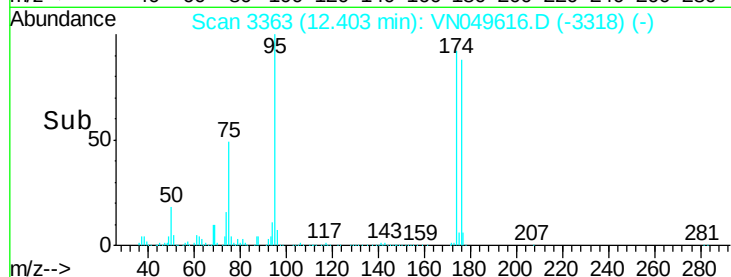
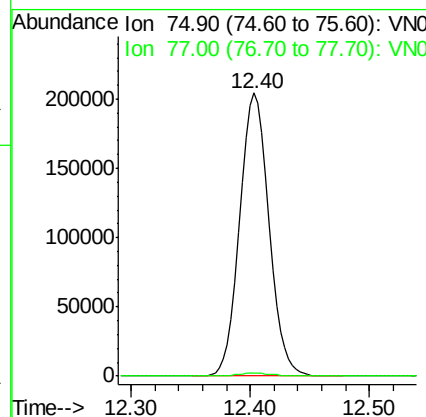
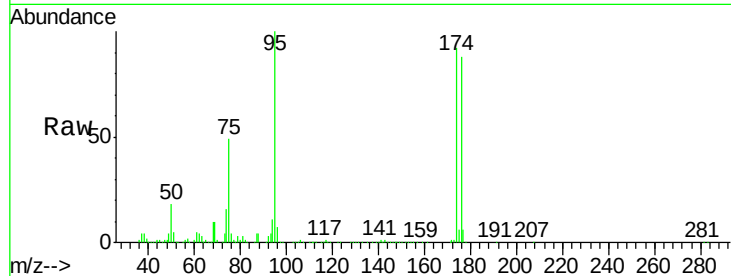
ClientSampleId :

Tot Ion: 75 Resp: 349313

Ion Ratio Lower Upper

75 100

77 1.4 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 115.21 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN049616.D

Acq: 29 Jun 2018 3:26

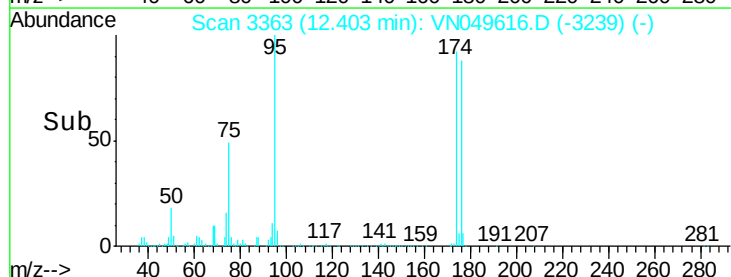
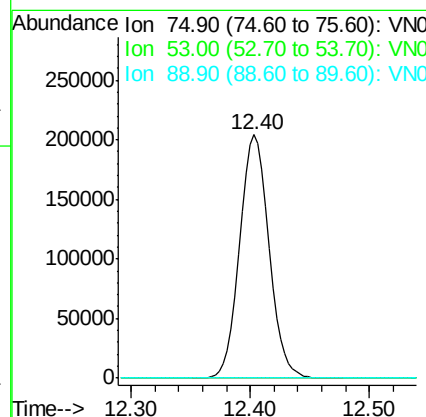
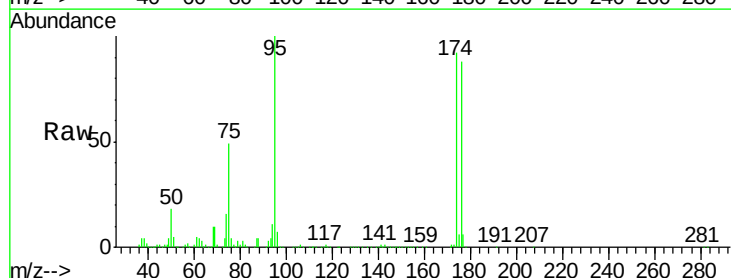
Tgt Ion: 75 Resp: 349313

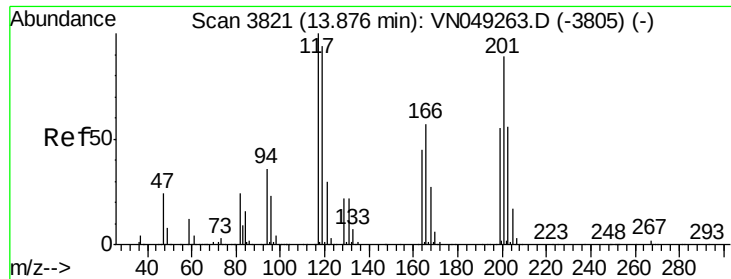
Ion Ratio Lower Upper

75 100

53 0.2 82.7 124.1#

89 0.0 36.5 54.7#





#90

Hexachloroethane

Concen: Below Cal

RT: 13.86 min Scan# 3815

Delta R.T. -0.02 min

Lab File: VN049616.D

Acq: 29 Jun 2018 3:26

Instrument :

MSVOA_N

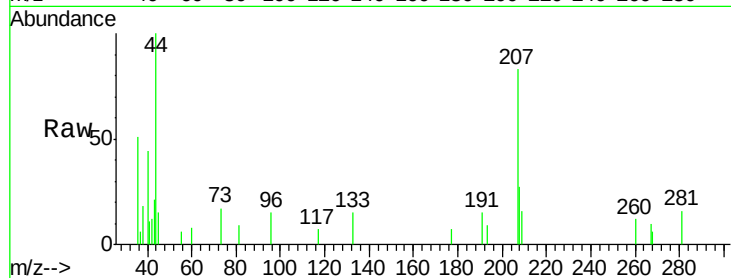
ClientSampled :

Tot Ion:117 Resp: 70

Ion Ratio Lower Upper

117 100

201 0.0 40.1 120.2#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

13.86

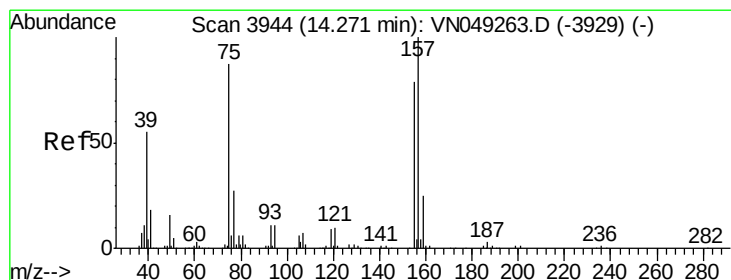
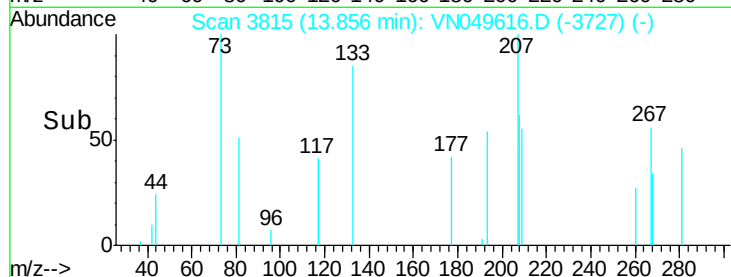
150

100

50

0

Time--> 13.84 13.85 13.86



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.45 ug/l

RT: 14.26 min Scan# 3939

Delta R.T. -0.02 min

Lab File: VN049616.D

Acq: 29 Jun 2018 3:26

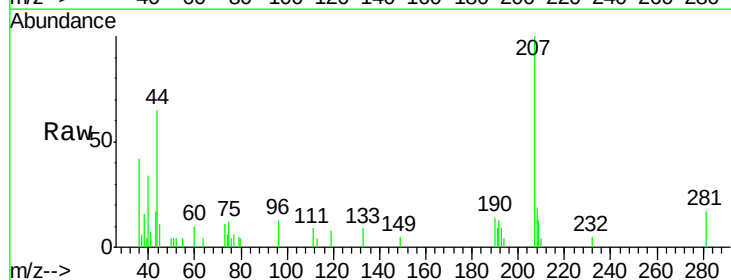
Tgt Ion: 75 Resp: 769

Ion Ratio Lower Upper

75 100

155 0.0 38.8 116.3#

157 0.0 51.0 153.1#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

14.26

600

500

400

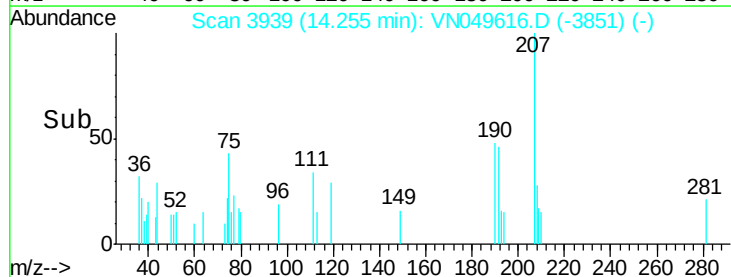
300

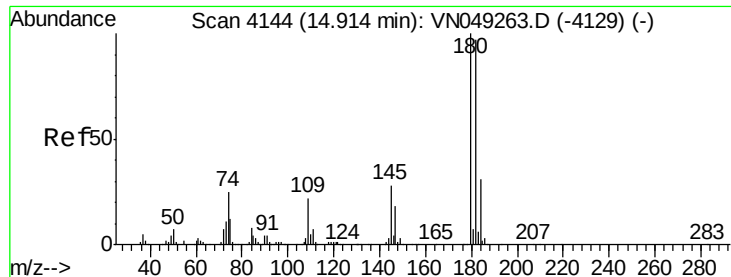
200

100

0

Time--> 14.25

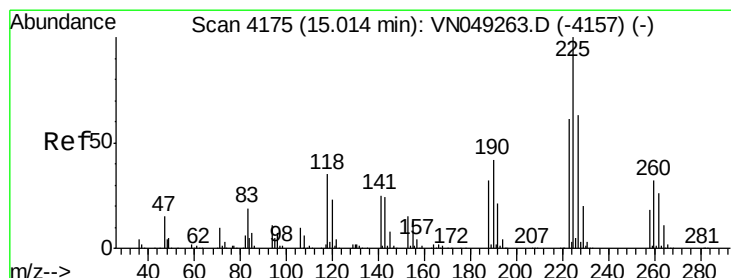
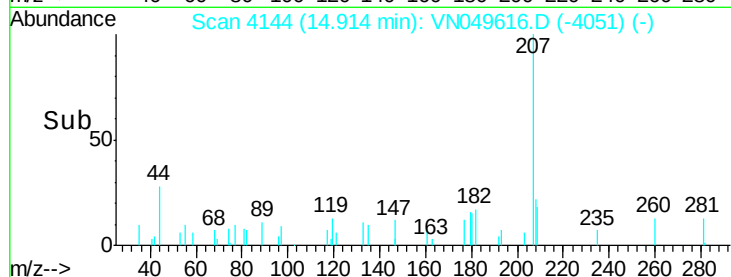
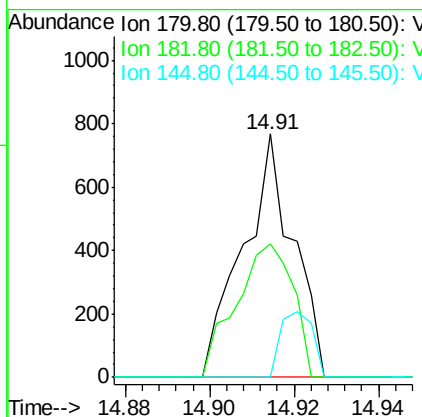
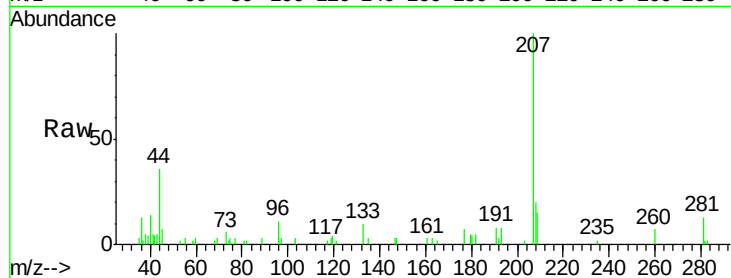




#93
 1,2,4-Trichlorobenzene
 Concen: 4.80 ua/l
 RT: 14.91 min Scan# 4144
 Delta R.T. 0.00 min
 Lab File: VN049616.D
 Acq: 29 Jun 2018 3:26

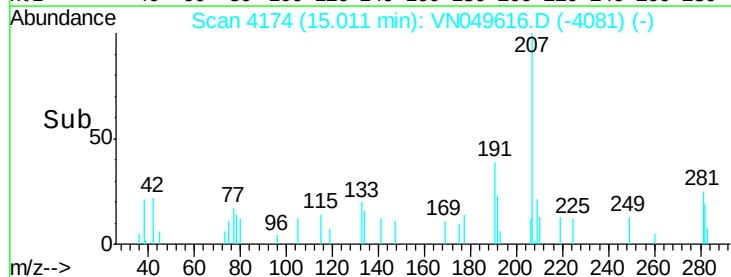
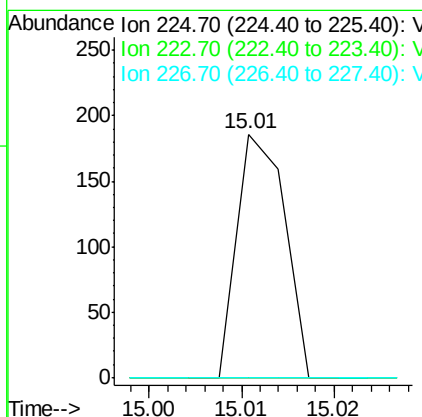
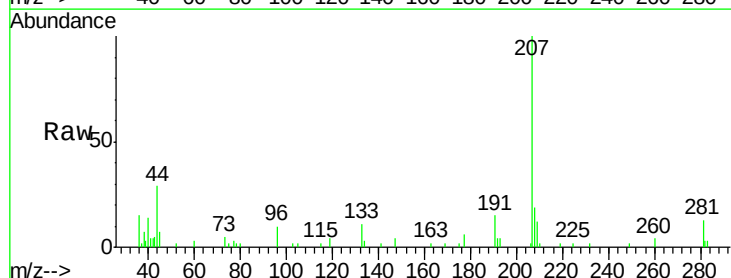
Instrument :
 MSVOA_N
 ClientSampled :

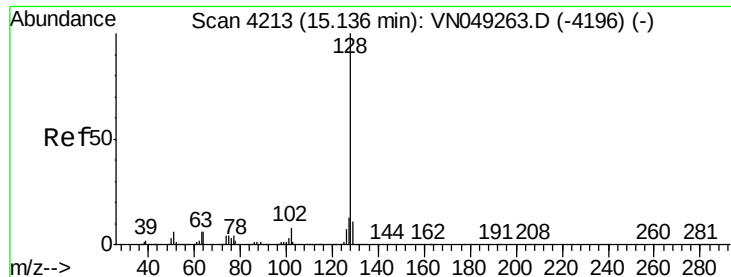
Tot Ion:180 Resp: 636
 Ion Ratio Lower Upper
 180 100
 182 62.1 46.9 140.8
 145 17.1 14.7 44.1



#94
 Hexachlorobutadiene
 Concen: Below Cal
 RT: 15.01 min Scan# 4174
 Delta R.T. -0.00 min
 Lab File: VN049616.D
 Acq: 29 Jun 2018 3:26

Tgt Ion:225 Resp: 67
 Ion Ratio Lower Upper
 225 100
 223 0.0 32.1 96.3#
 227 0.0 31.8 95.3#





#95

Naphthalene

Concen: 3.86 ug/l

RT: 15.14 min Scan# 4213

Delta R.T. 0.00 min

Lab File: VN049616.D

Acq: 29 Jun 2018 3:26

Instrument :

MSVOA_N

ClientSampleId :

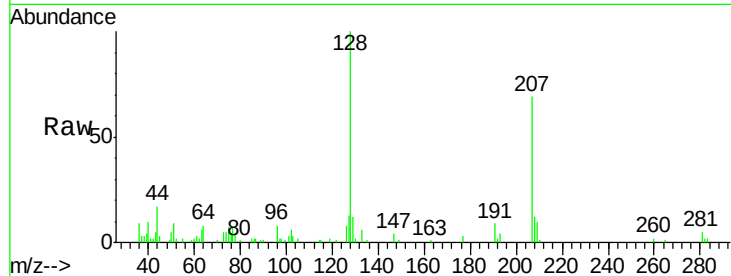
Tot Ion:128 Resp: 27780

Ion Ratio Lower Upper

128 100

127 13.7 10.6 16.0

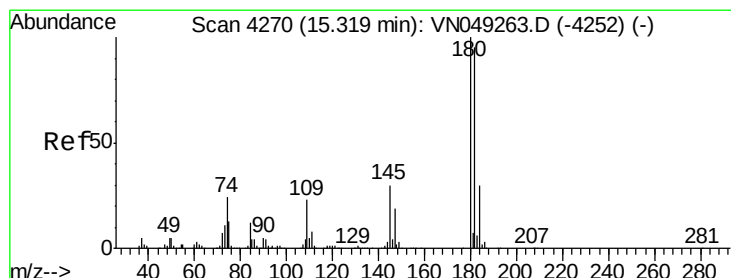
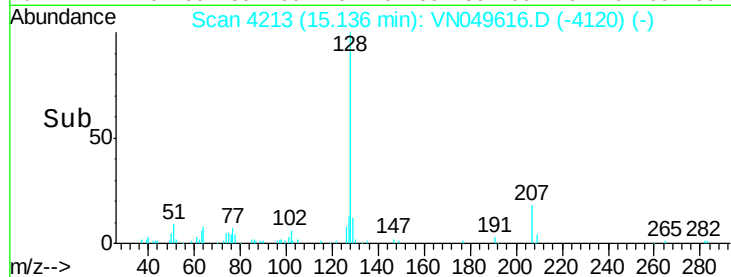
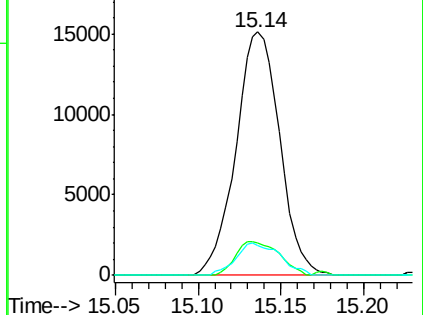
129 13.5 8.5 12.7#



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: 3.51 ug/l

RT: 15.32 min Scan# 4269

Delta R.T. -0.00 min

Lab File: VN049616.D

Acq: 29 Jun 2018 3:26

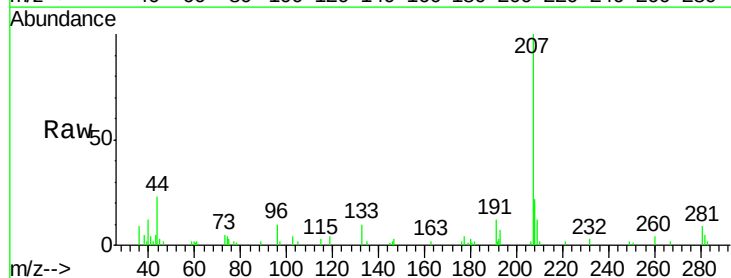
Tgt Ion:180 Resp: 560

Ion Ratio Lower Upper

180 100

182 60.4 47.3 141.8

145 10.7 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

