

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061818\
 Data File : VN049354.D
 Acq On : 18 Jun 2018 19:57
 Operator : MD\SY
 Sample : PB110313ZHE#19
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 19 01:35:12 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	1214675	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1977899	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1612710	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	495248	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	834632	51.81	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.62%	
35) Dibromofluoromethane	7.59	113	738204	46.13	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.26%	
50) Toluene-d8	10.09	98	2674012	43.89	ug/l	0.00
Spiked Amount	50.000		Recovery	=	87.78%	
62) 4-Bromofluorobenzene	12.41	95	688867	34.19	ug/l	0.00
Spiked Amount	50.000		Recovery	=	68.38%	

Target Compounds

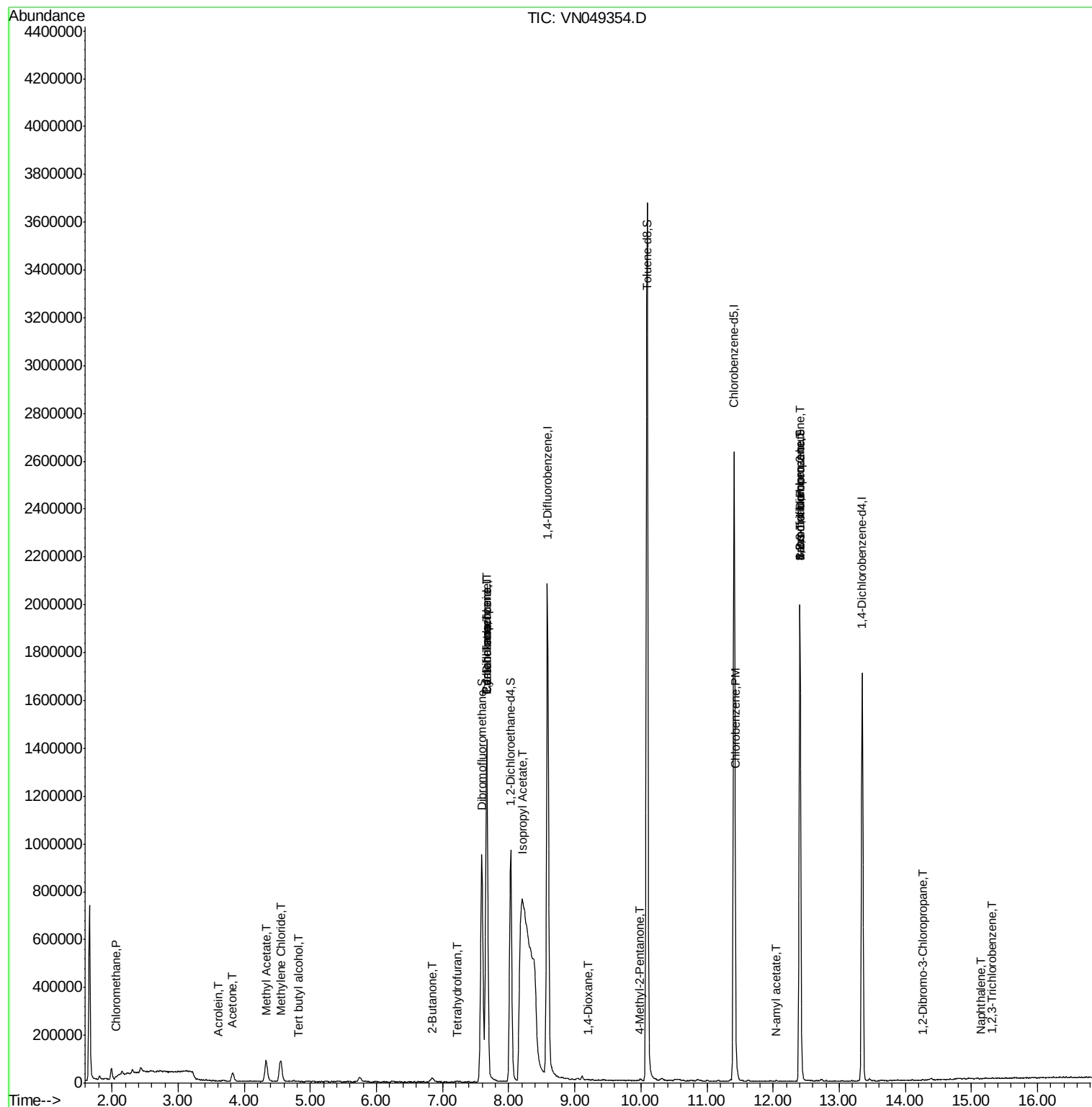
						Qvalue
3) Chloromethane	2.06	50	3633	0.20	ug/l #	88
11) Tert butyl alcohol	4.83	59	195	0.21	ug/l #	70
13) Acrolein	3.61	56	350	0.35	ug/l #	30
16) Acetone	3.82	43	58237	14.89	ug/l #	88
18) Methyl Acetate	4.33	43	166490	13.96	ug/l	95
20) Methylene Chloride	4.55	84	68312	4.18	ug/l #	84
25) 2-Butanone	6.85	43	10608	2.02	ug/l #	85
29) Tetrahydrofuran	7.21	42	1066	0.32	ug/l #	45
31) Cyclohexane	7.67	56	22713	0.78	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	84852	3.74	ug/l #	50
38) Carbon Tetrachloride	7.67	117	109680	4.67	ug/l #	17
43) Isopropyl Acetate	8.20	43	1452825	61.70	ug/l #	64
49) 1,4-Dioxane	9.20	88	357	2.33	ug/l #	78
51) 4-Methyl-2-Pentanone	9.99	43	6743	0.55	ug/l	93
65) Chlorobenzene	11.44	112	24141	0.58	ug/l	99
71) Bromoform	12.40	173	5036	0.50	ug/l #	1
74) N-amyl acetate	12.05	43	2845	0.27	ug/l #	54
75) 1,1,2,2-Tetrachloroethane	12.44	83	63	Below	Cal #	26
76) 1,2,3-Trichloropropane	12.41	75	332692	39.37	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.41	75	332692	124.43	ug/l #	9
90) Hexachloroethane	13.70	117	63	Below	Cal #	9
92) 1,2-Dibromo-3-Chloropropan	14.26	75	795	0.53	ug/l #	4
95) Naphthalene	15.14	128	1033	2.15	ug/l #	69
96) 1,2,3-Trichlorobenzene	15.31	180	239	3.48	ug/l #	13

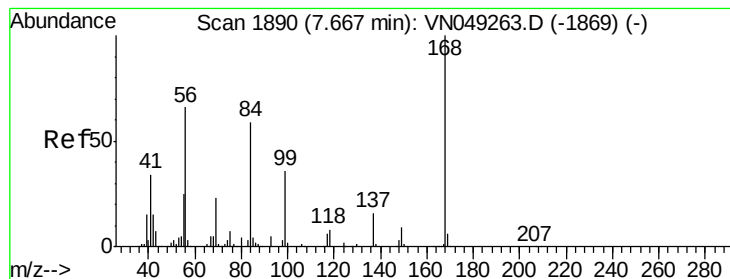
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.00 min

Lab File: VN049354.D

Acq: 18 Jun 2018 19:57

Instrument :

MSVOA_N

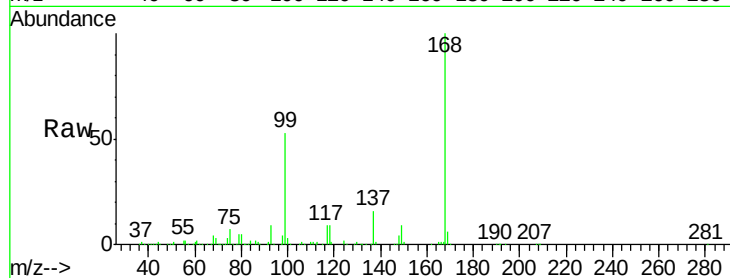
ClientSampleId :

Tot Ion:168 Resp: 1214675

Ion Ratio Lower Upper

168 100

99 53.2 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.67

500000

400000

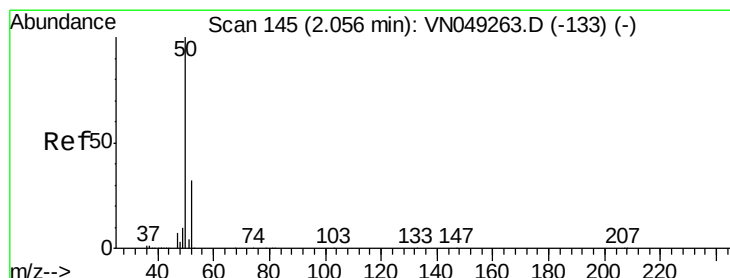
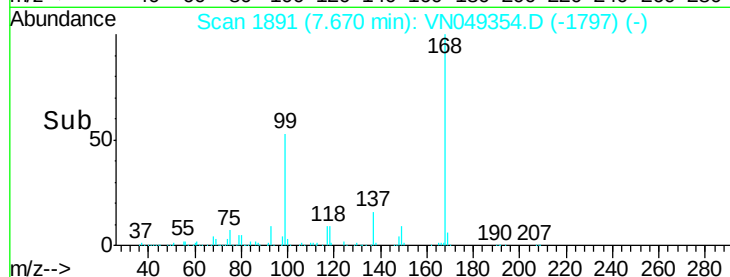
300000

200000

100000

0

Time-->



#3

Chloromethane

Concen: 0.20 ug/l

RT: 2.06 min Scan# 145

Delta R.T. -0.00 min

Lab File: VN049354.D

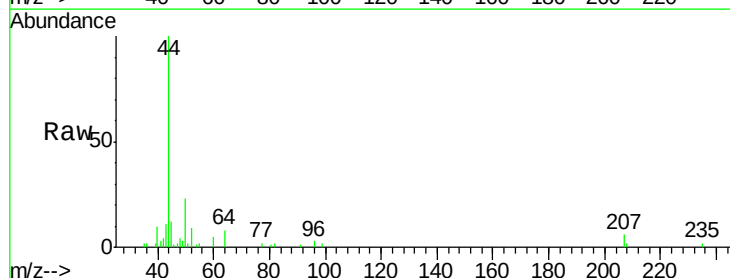
Acq: 18 Jun 2018 19:57

Tgt Ion: 50 Resp: 3633

Ion Ratio Lower Upper

50 100

52 38.3 25.2 37.8#



Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0

2.06

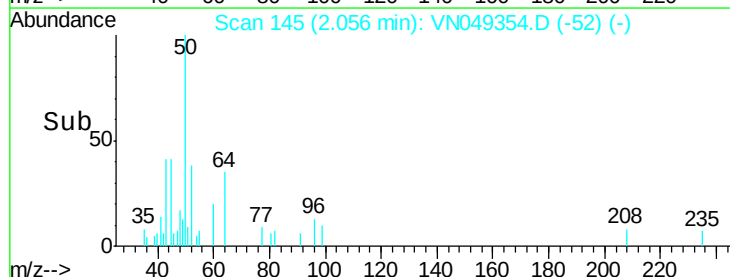
3000

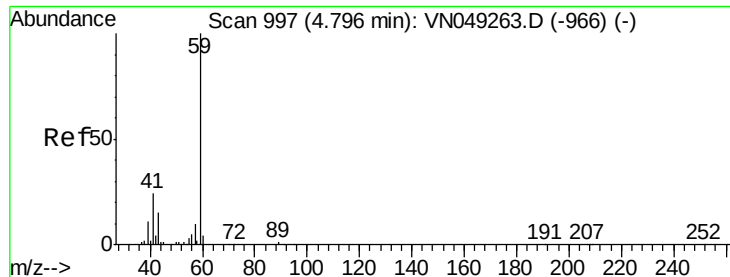
2000

1000

0

Time-->

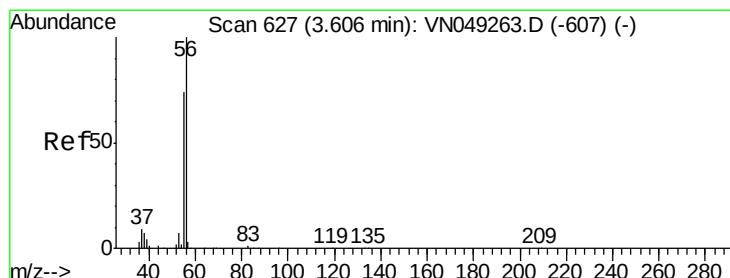
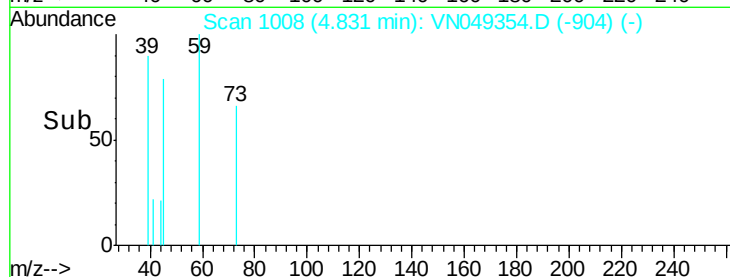
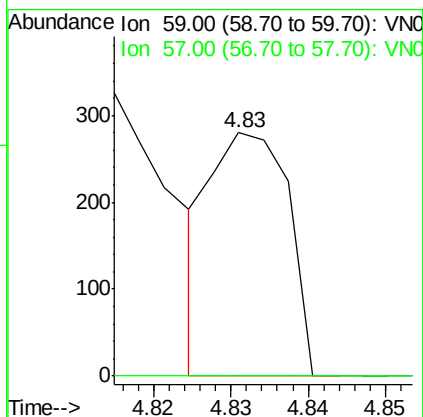
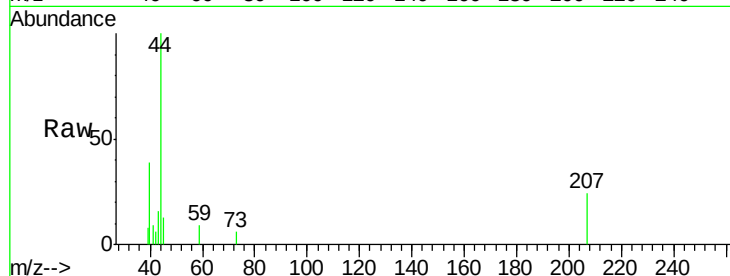




#11
Tert butyl alcohol
Concen: 0.21 ug/l
RT: 4.83 min Scan# 1008
Delta R.T. 0.04 min
Lab File: VN049354.D
Acq: 18 Jun 2018 19:57

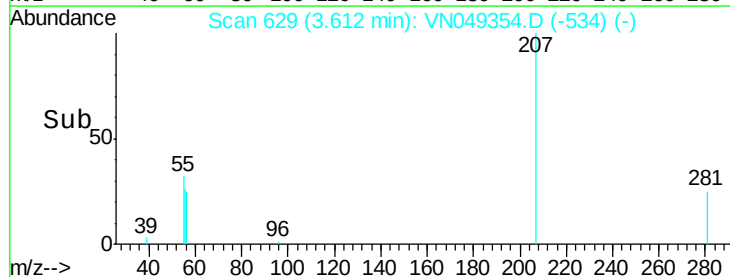
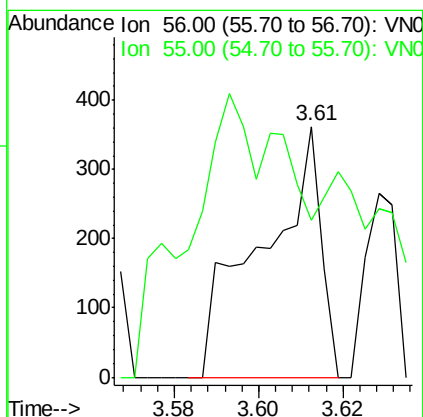
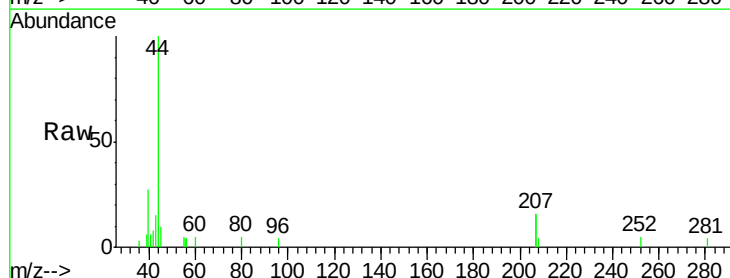
Instrument :
MSVOA_N
ClientSampleId :

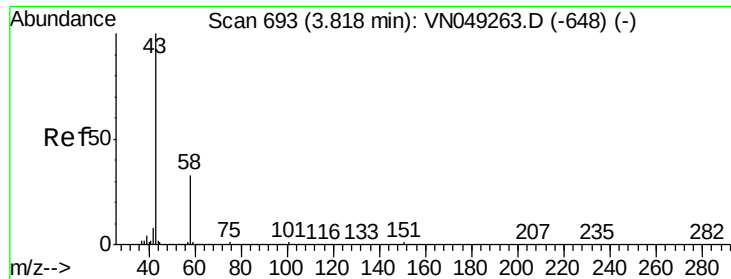
Tot Ion: 59 Resp: 195
Ion Ratio Lower Upper
59 100
57 0.0 9.0 13.6#



#13
Acrolein
Concen: 0.35 ug/l
RT: 3.61 min Scan# 629
Delta R.T. 0.01 min
Lab File: VN049354.D
Acq: 18 Jun 2018 19:57

Tgt Ion: 56 Resp: 350
Ion Ratio Lower Upper
56 100
55 129.7 57.1 85.7#





#16

Acetone

Concen: 14.89 ug/l

RT: 3.82 min Scan# 695

Delta R.T. 0.01 min

Lab File: VN049354.D

Acq: 18 Jun 2018 19:57

Instrument :

MSVOA_N

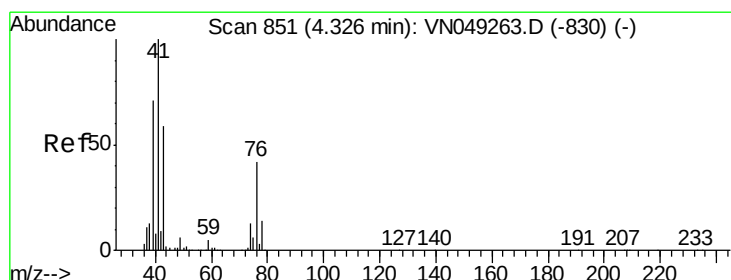
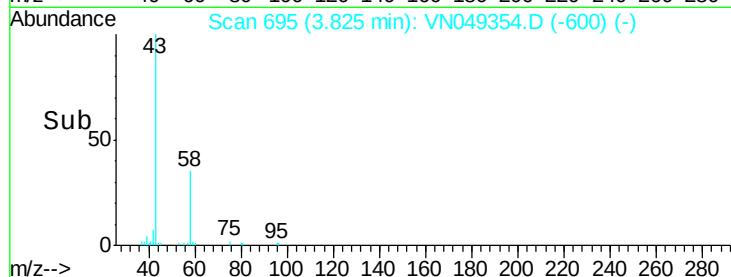
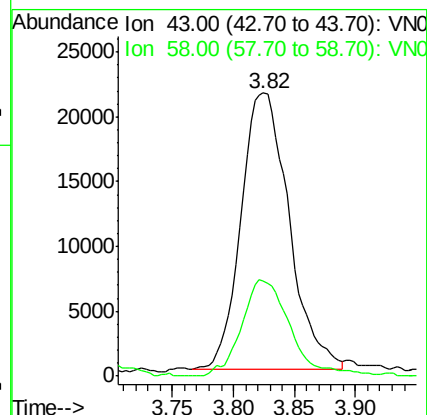
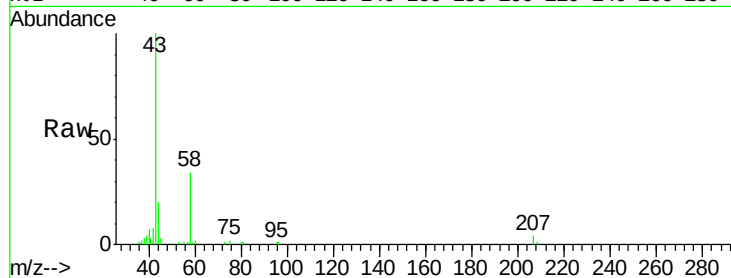
ClientSampled :

Tot Ion: 43 Resp: 58237

Ion Ratio Lower Upper

43 100

58 34.5 22.4 33.6#



#18

Methyl Acetate

Concen: 13.96 ug/l

RT: 4.33 min Scan# 852

Delta R.T. 0.00 min

Lab File: VN049354.D

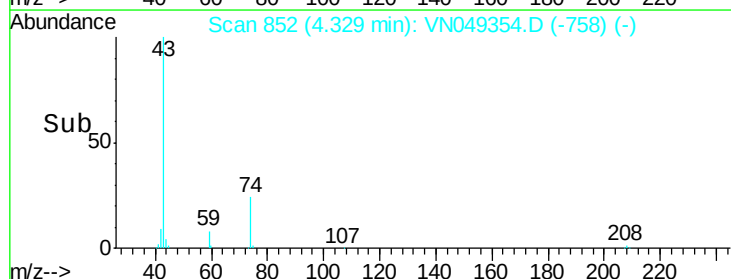
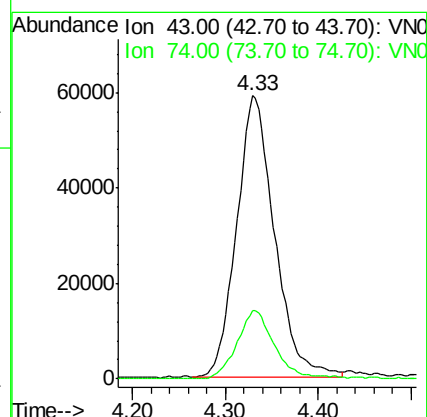
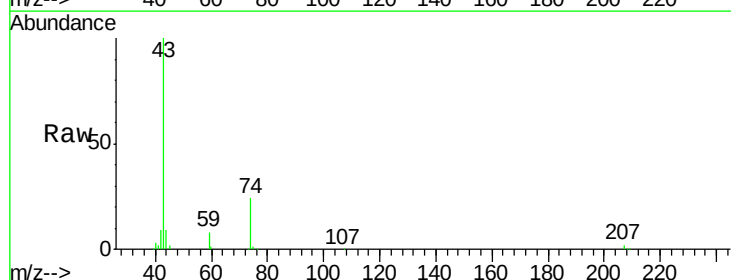
Acq: 18 Jun 2018 19:57

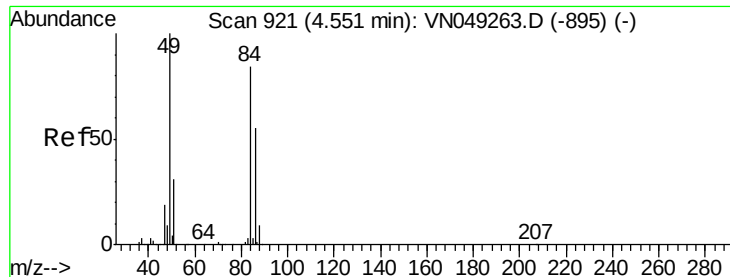
Tgt Ion: 43 Resp: 166490

Ion Ratio Lower Upper

43 100

74 24.0 17.4 26.0

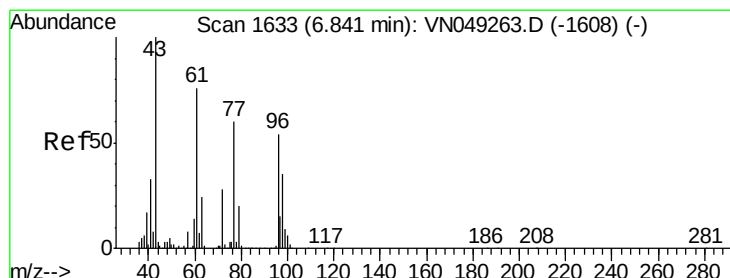
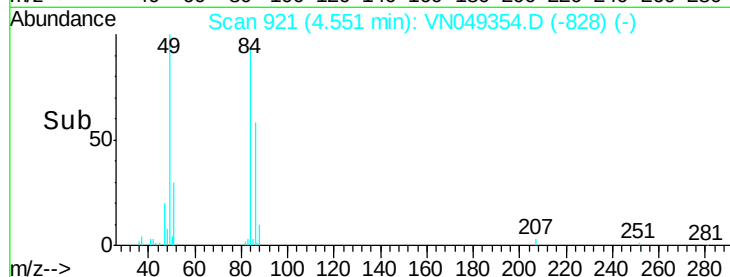
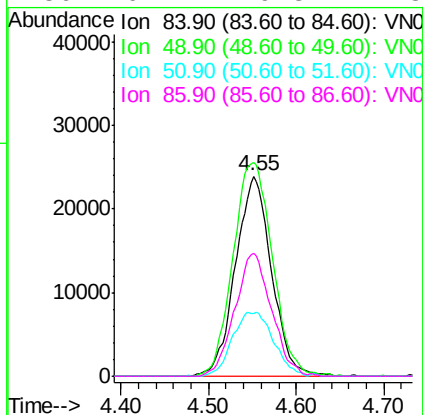
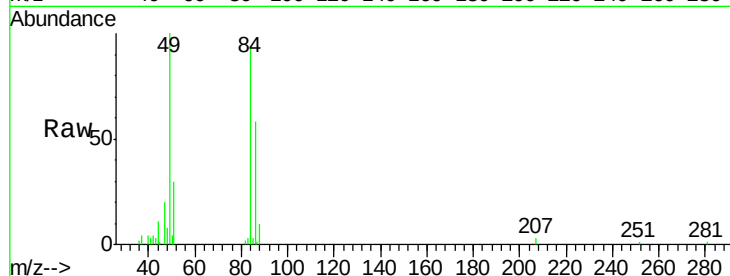




#20
Methvlene Chloride
Concen: 4.18 ug/l
RT: 4.55 min Scan# 921
Delta R.T. -0.00 min
Lab File: VN049354.D
Acq: 18 Jun 2018 19:57

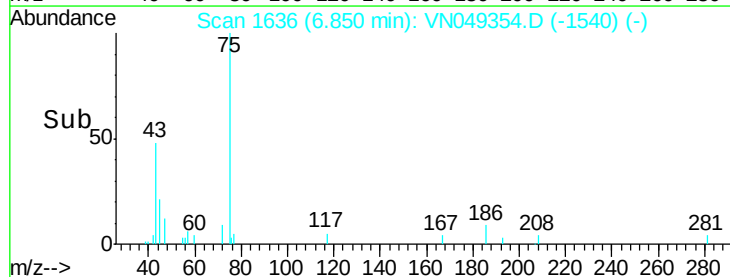
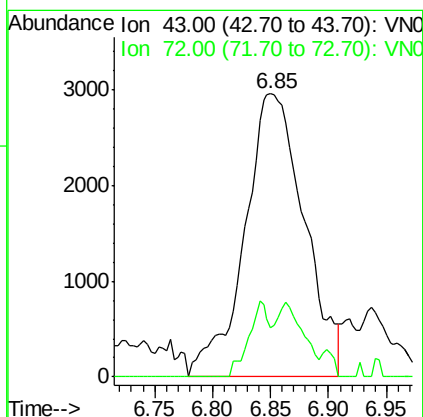
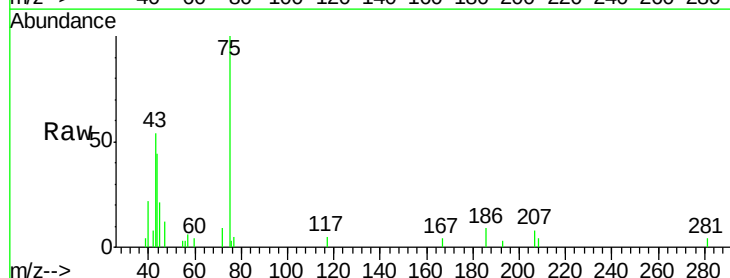
Instrument :
MSVOA_N
ClientSampleId :

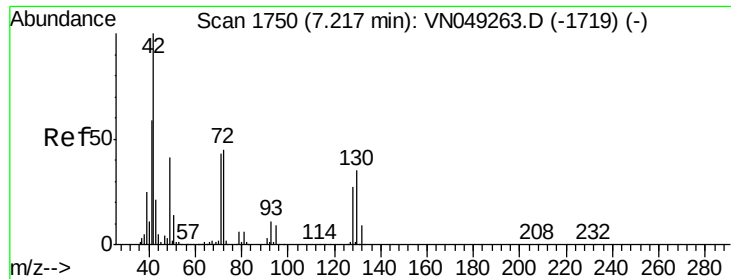
Tot Ion: 84 Resp: 68312
Ion Ratio Lower Upper
84 100
49 106.7 106.9 160.3#
51 31.5 32.7 49.1#
86 61.7 49.8 74.8



#25
2-Butanone
Concen: 2.02 ug/l
RT: 6.85 min Scan# 1636
Delta R.T. 0.01 min
Lab File: VN049354.D
Acq: 18 Jun 2018 19:57

Tgt Ion: 43 Resp: 10608
Ion Ratio Lower Upper
43 100
72 17.6 20.2 30.2#





#29

Tetrahydrofuran

Concen: 0.32 ug/l

RT: 7.21 min Scan# 1749

Delta R.T. -0.00 min

Lab File: VN049354.D

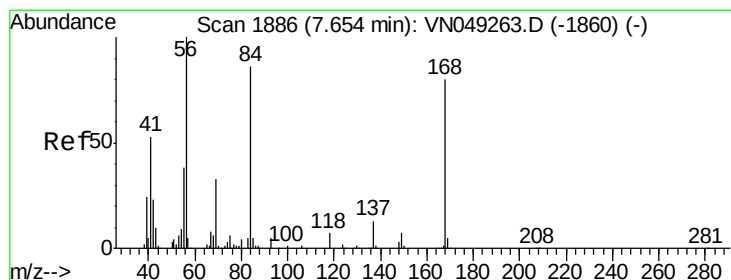
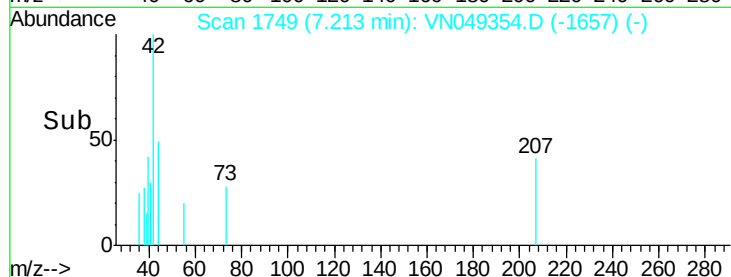
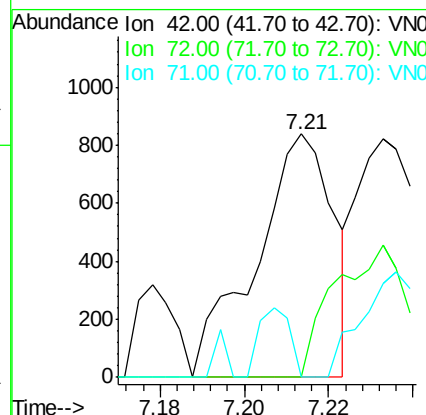
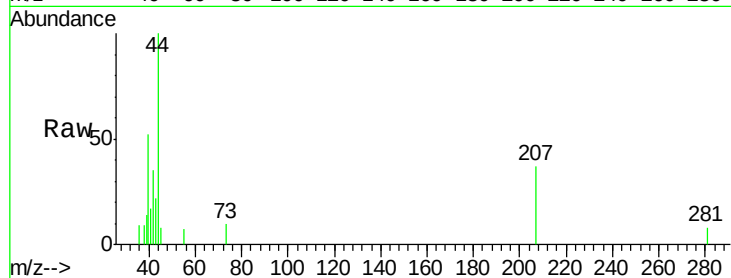
Acq: 18 Jun 2018 19:57

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion:	42	Resp:	1066
Ion	Ratio	Lower	Upper
42	100		
72	0.0	32.2	48.4#
71	11.6	30.5	45.7#



#31

Cyclohexane

Concen: 0.78 ug/l

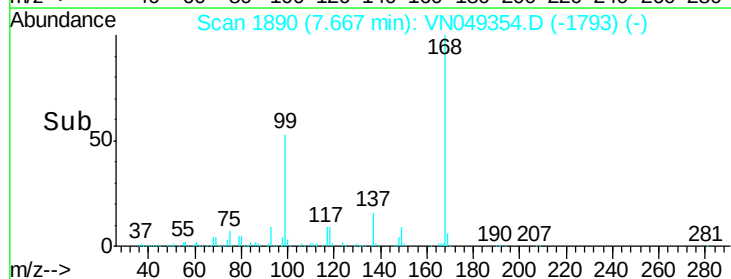
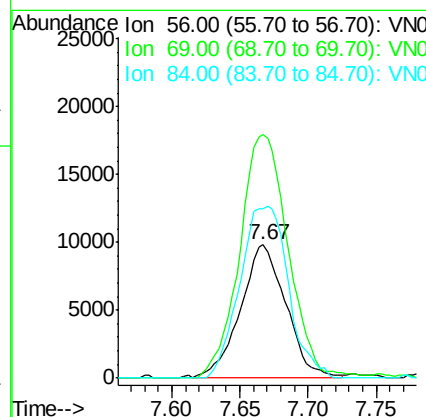
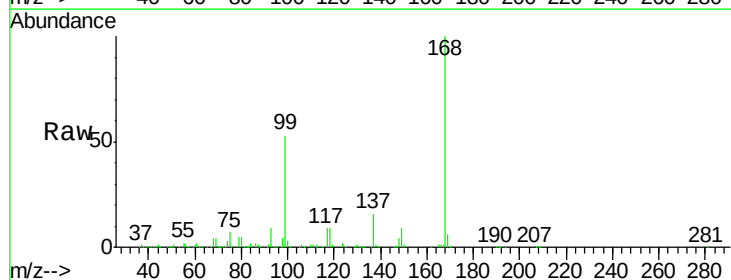
RT: 7.67 min Scan# 1890

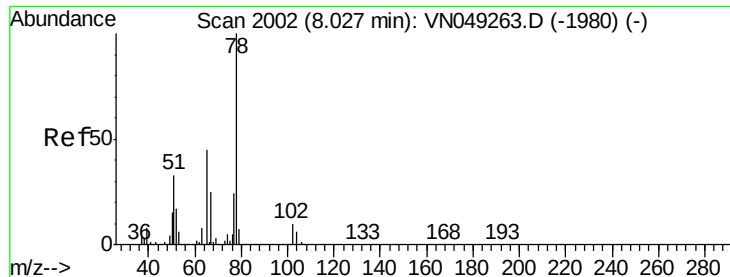
Delta R.T. 0.01 min

Lab File: VN049354.D

Acq: 18 Jun 2018 19:57

Tgt Ion:	56	Resp:	22713
Ion	Ratio	Lower	Upper
56	100		
69	182.5	25.0	37.4#
84	127.1	64.6	96.8#

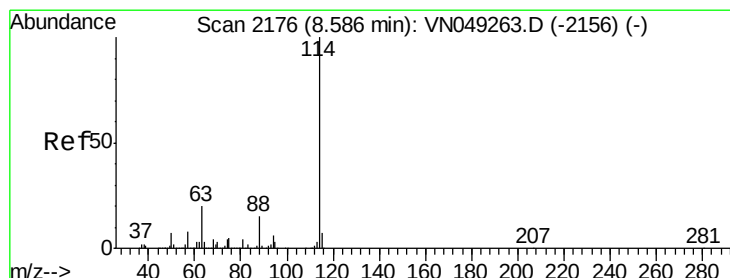
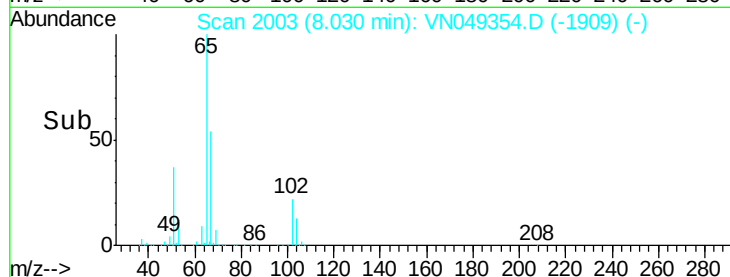
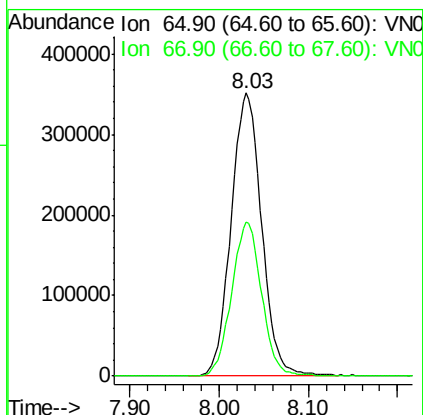
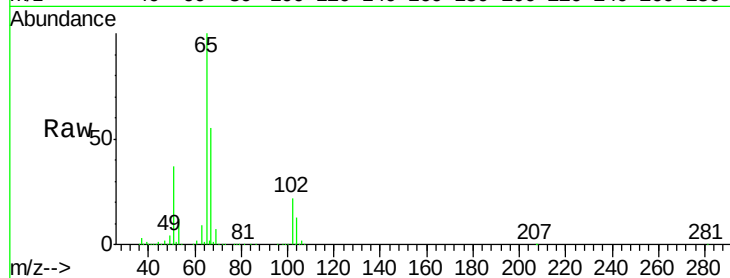




#33
 1,2-Dichloroethane-d4
 Concen: 51.81 ug/l
 RT: 8.03 min Scan# 2003
 Delta R.T. 0.00 min
 Lab File: VN049354.D
 Acq: 18 Jun 2018 19:57

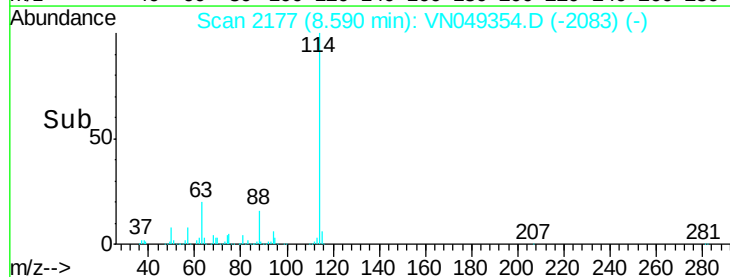
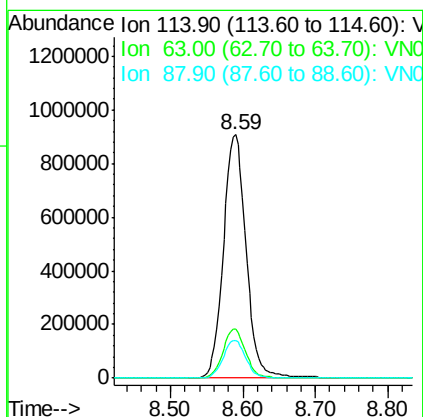
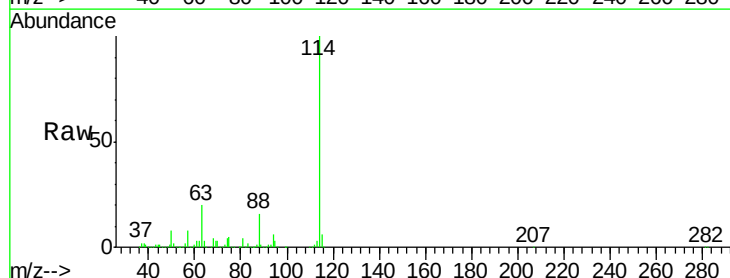
Instrument :
 MSVOA_N
 ClientSampled :

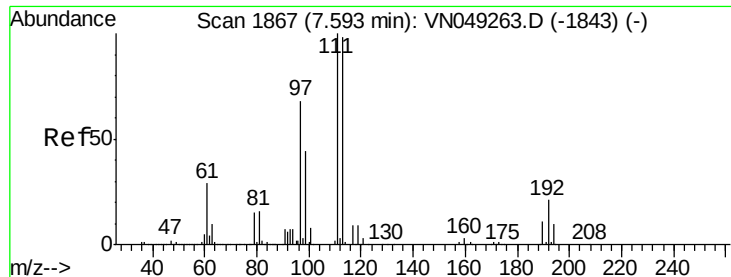
Tot Ion: 65 Resp: 834632
 Ion Ratio Lower Upper
 65 100
 67 53.4 0.0 103.8



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VN049354.D
 Acq: 18 Jun 2018 19:57

Tgt Ion: 114 Resp: 1977899
 Ion Ratio Lower Upper
 114 100
 63 20.0 0.0 44.4
 88 15.6 0.0 31.4

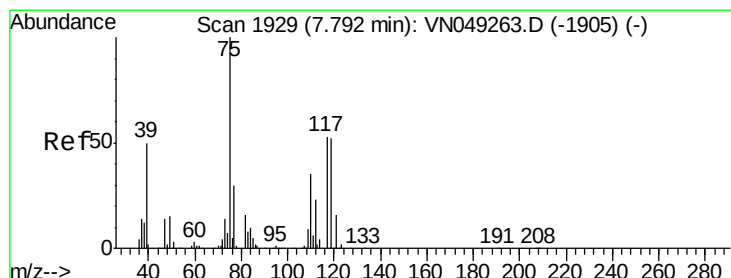
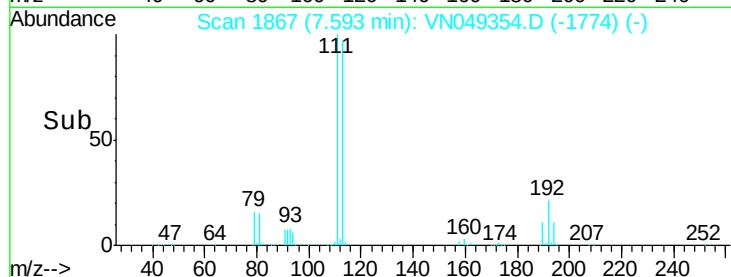
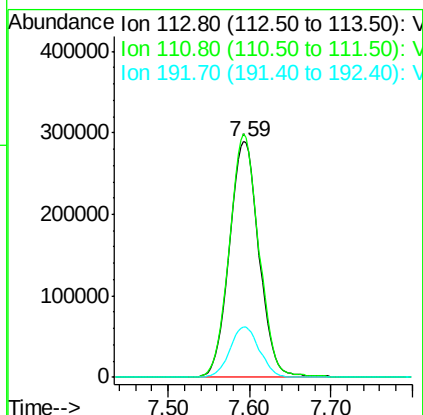
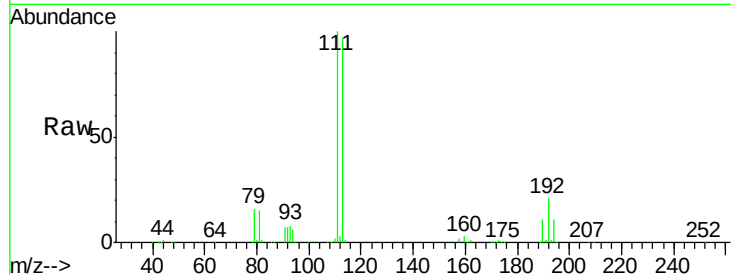




#35
 Dibromofluoromethane
 Concen: 46.13 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. -0.00 min
 Lab File: VN049354.D
 Acq: 18 Jun 2018 19:57

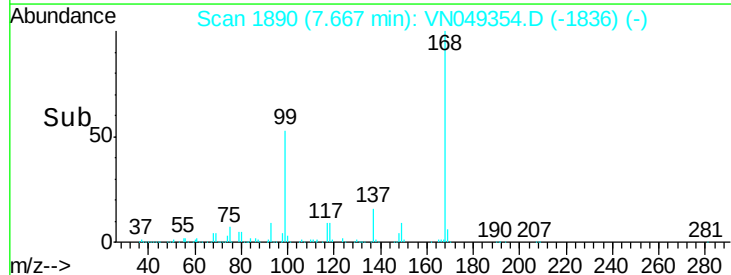
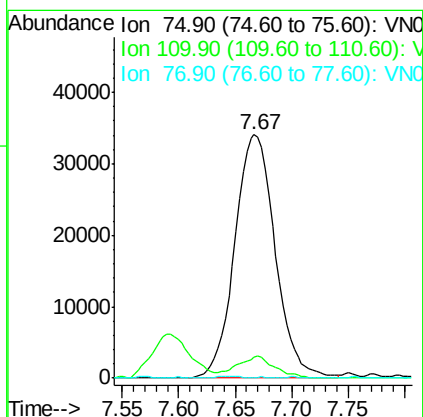
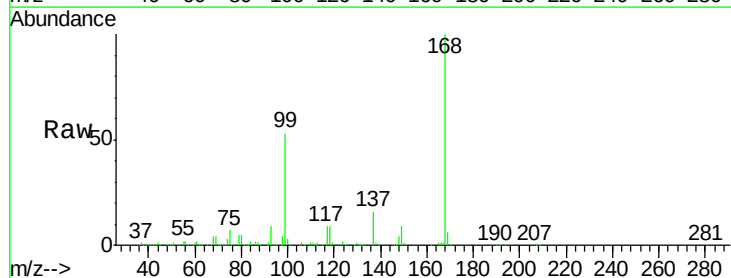
Instrument :
 MSVOA_N
 ClientSampleId :

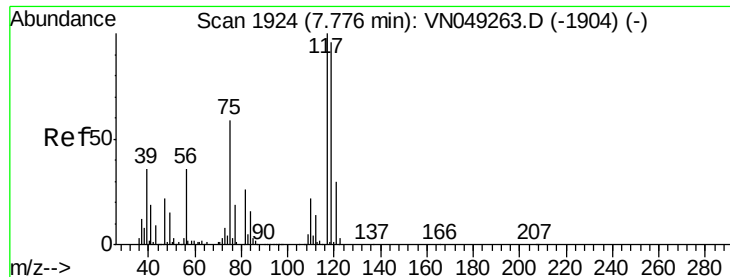
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.4	82.4	123.6
192	21.5	15.0	22.6



#36
 1,1-Dichloropropene
 Concen: 3.74 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.13 min
 Lab File: VN049354.D
 Acq: 18 Jun 2018 19:57

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.3	17.0	50.9#
77	0.0	24.4	36.6#

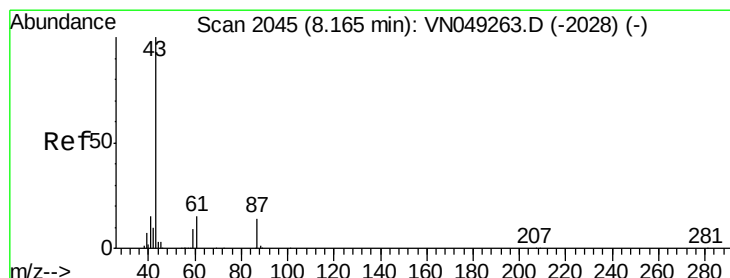
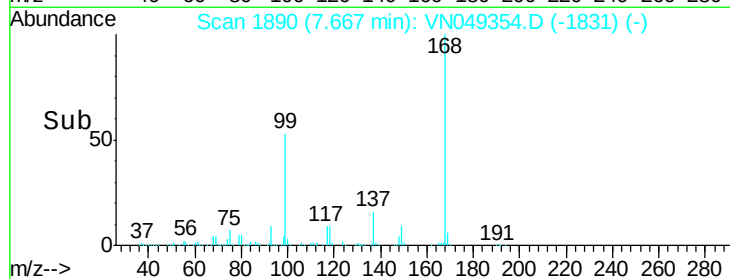
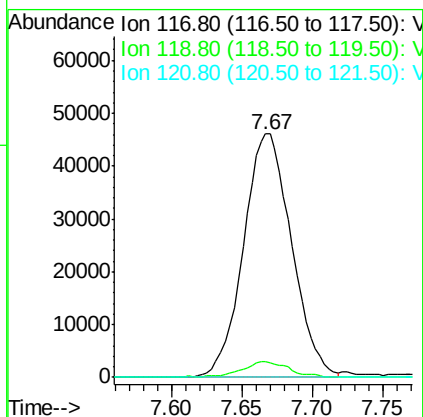
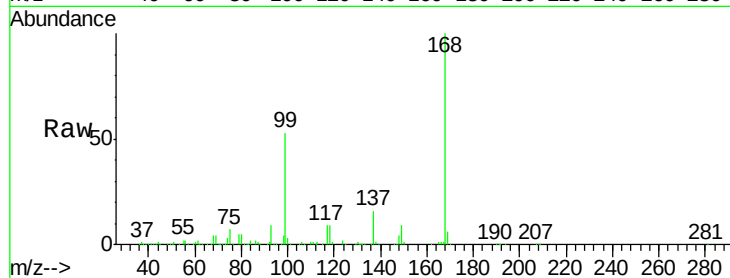




#38
Carbon Tetrachloride
Concen: 4.67 ug/l
RT: 7.67 min Scan# 1890
Delta R.T. -0.11 min
Lab File: VN049354.D
Acq: 18 Jun 2018 19:57

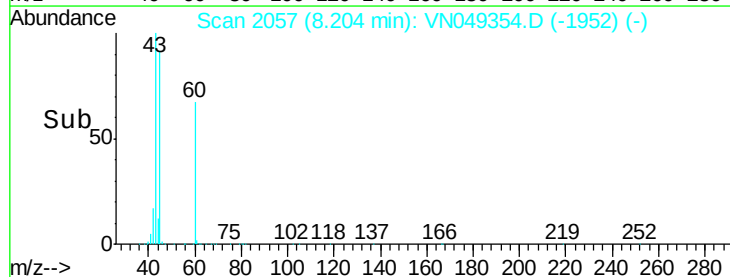
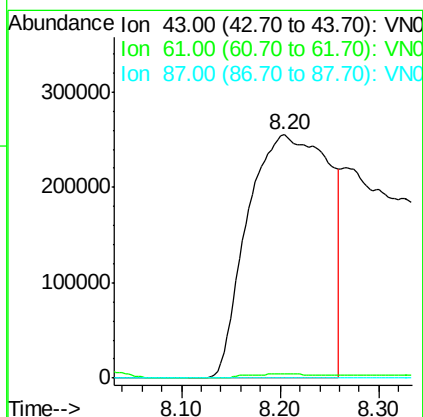
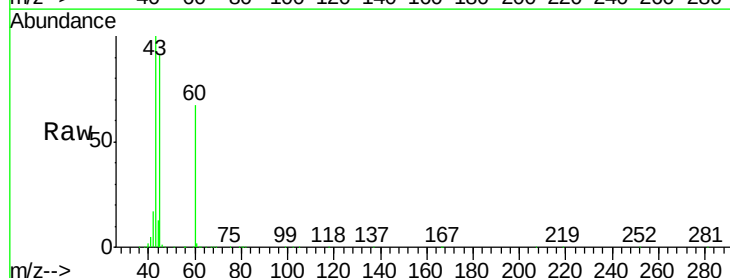
Instrument :
MSVOA_N
ClientSampleId :

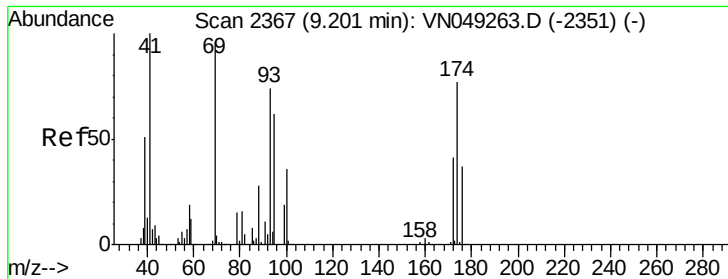
Tot Ion:117 Resp: 109680
Ion Ratio Lower Upper
117 100
119 6.3 75.6 113.4#
121 0.0 24.7 37.1#



#43
Isopropyl Acetate
Concen: 61.70 ug/l
RT: 8.20 min Scan# 2057
Delta R.T. 0.04 min
Lab File: VN049354.D
Acq: 18 Jun 2018 19:57

Tgt Ion: 43 Resp: 1452825
Ion Ratio Lower Upper
43 100
61 0.2 14.2 21.4#
87 0.0 9.4 14.0#





#49

1,4-Dioxane

Concen: 2.33 ug/l

RT: 9.20 min Scan# 2366

Delta R.T. -0.00 min

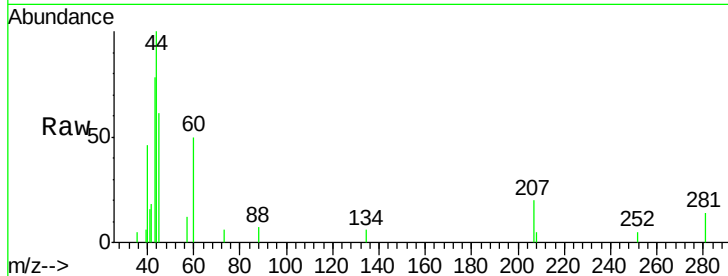
Lab File: VN049354.D

Acq: 18 Jun 2018 19:57

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 88 Resp: 357

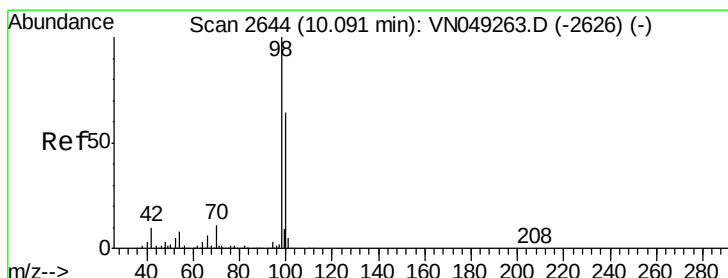
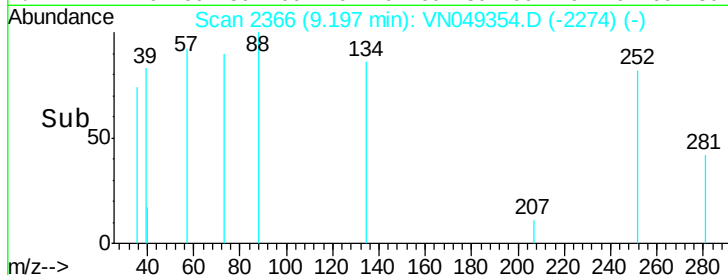
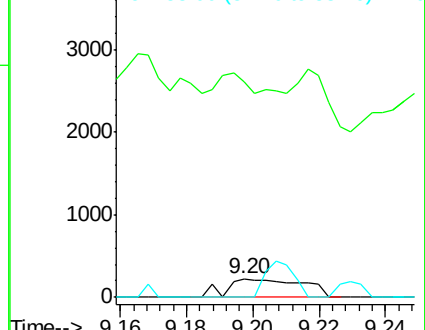
Ion	Ratio	Lower	Upper
88	100		
43	0.0	30.9	46.3#
58	73.7	58.9	88.3



Abundance Ion 88.00 (87.70 to 88.70): VN049263.D (-2351) (-)

Ion 43.00 (42.70 to 43.70): VN049263.D (-2351) (-)

Ion 58.00 (57.70 to 58.70): VN049263.D (-2351) (-)



#50

Toluene-d8

Concen: 43.89 ug/l

RT: 10.09 min Scan# 2645

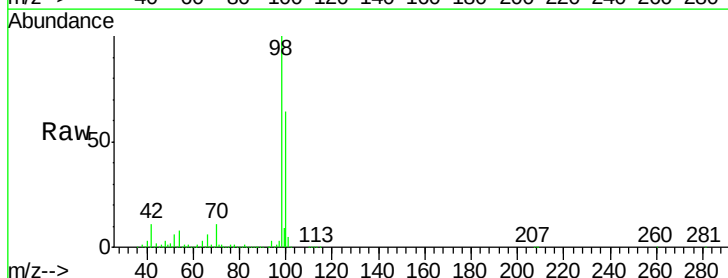
Delta R.T. 0.00 min

Lab File: VN049354.D

Acq: 18 Jun 2018 19:57

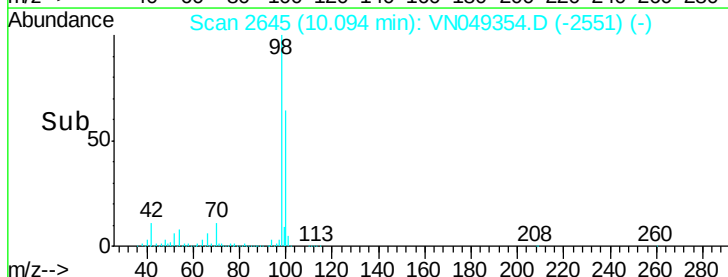
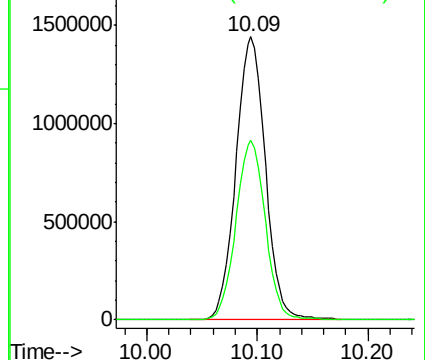
Tgt Ion: 98 Resp: 2674012

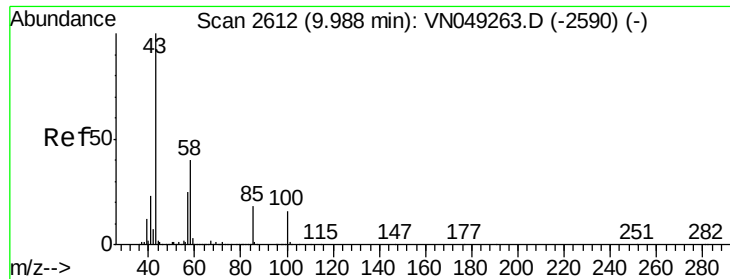
Ion	Ratio	Lower	Upper
98	100		
100	63.5	49.8	74.8



Abundance Ion 98.00 (97.70 to 98.70): VN049263.D (-2626) (-)

Ion 100.00 (99.70 to 100.70): VN049263.D (-2626) (-)

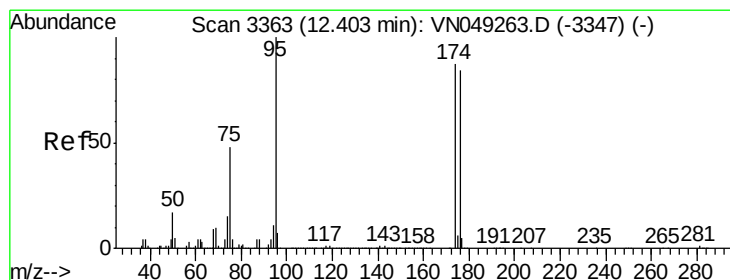
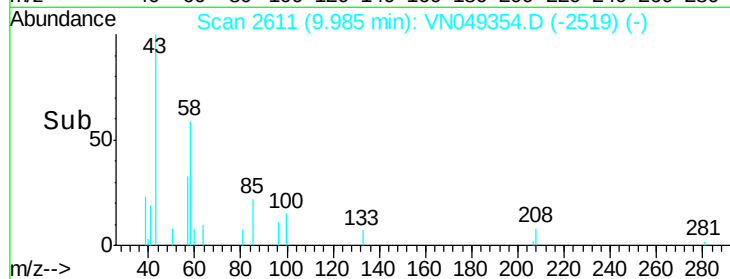
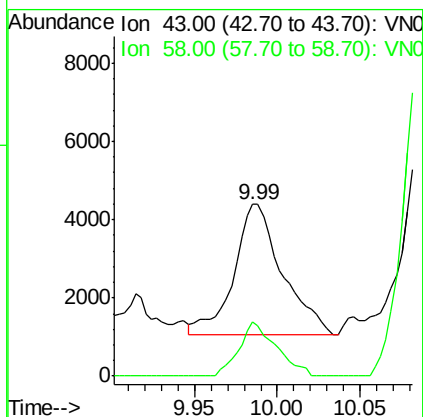
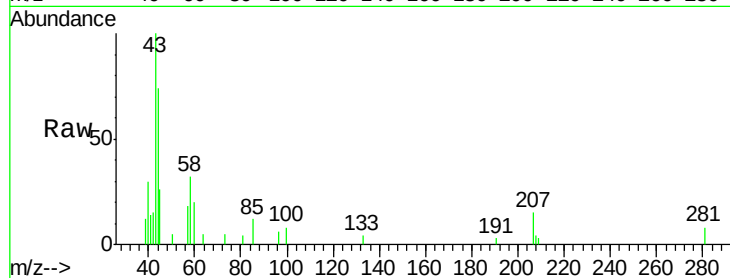




#51
 4-Methyl-2-Pentanone
 Concen: 0.55 ug/l
 RT: 9.99 min Scan# 2611
 Delta R.T. -0.00 min
 Lab File: VN049354.D
 Acq: 18 Jun 2018 19:57

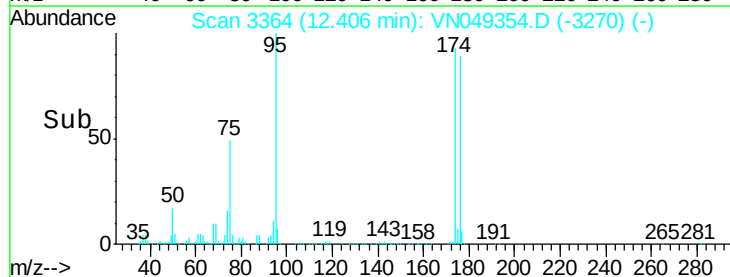
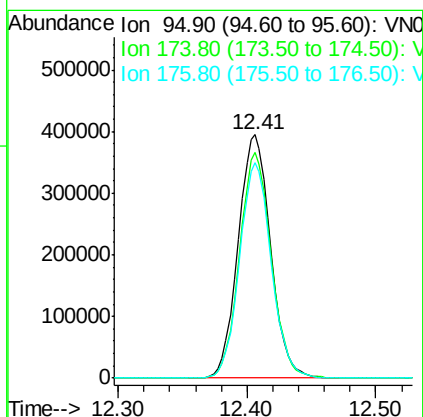
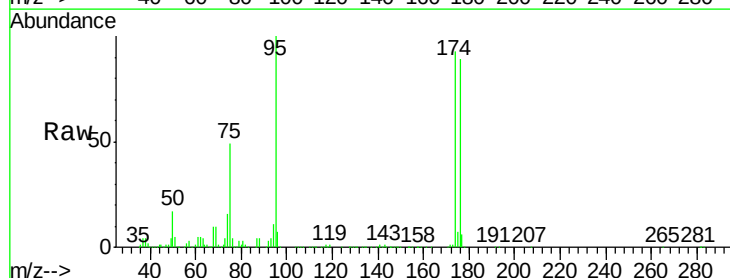
Instrument :
 MSVOA_N
 ClientSampleId :

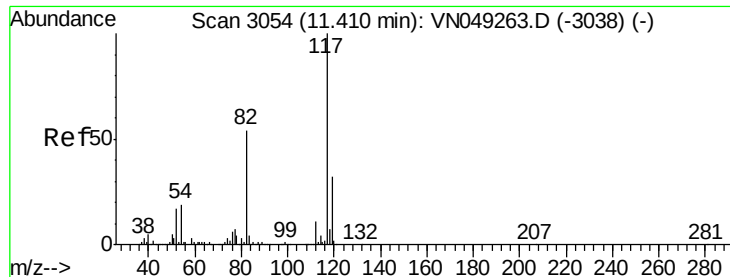
Tot Ion: 43 Resp: 6743
 Ion Ratio Lower Upper
 43 100
 58 32.3 29.0 43.6



#62
 4-Bromofluorobenzene
 Concen: 34.19 ug/l
 RT: 12.41 min Scan# 3364
 Delta R.T. 0.00 min
 Lab File: VN049354.D
 Acq: 18 Jun 2018 19:57

Tgt Ion: 95 Resp: 688867
 Ion Ratio Lower Upper
 95 100
 174 90.8 0.0 165.6
 176 86.9 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: VN049354.D

Acq: 18 Jun 2018 19:57

Instrument :

MSVOA_N

ClientSampled :

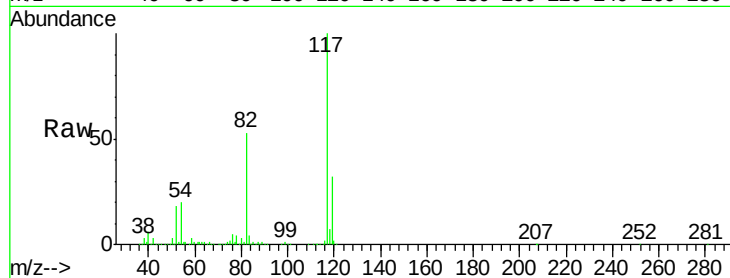
Tot Ion:117 Resp: 1612710

Ion Ratio Lower Upper

117 100

82 53.2 45.9 68.9

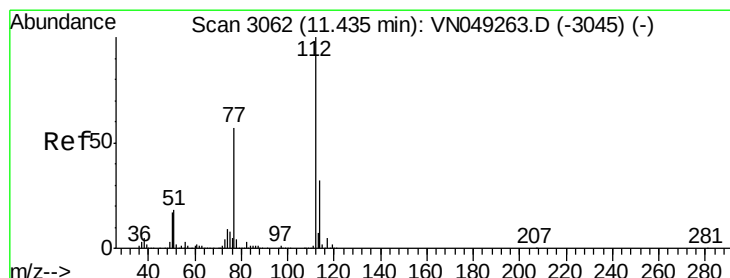
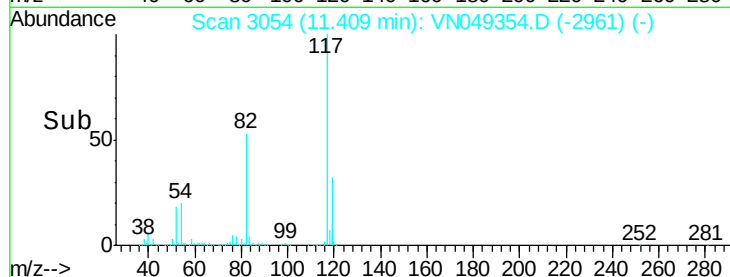
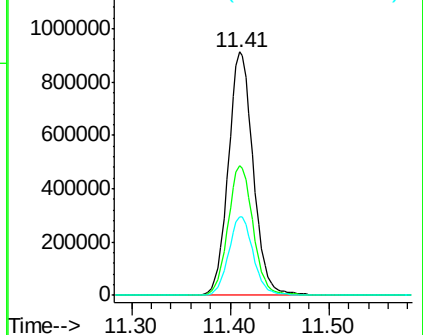
119 32.5 25.5 38.3



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VN0

Ion 118.90 (118.60 to 119.60): V



#65

Chlorobenzene

Concen: 0.58 ug/l

RT: 11.44 min Scan# 3062

Delta R.T. -0.00 min

Lab File: VN049354.D

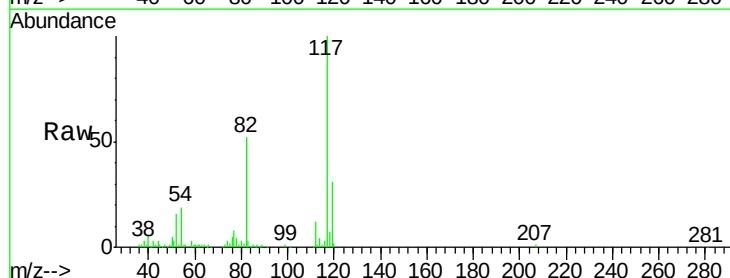
Acq: 18 Jun 2018 19:57

Tgt Ion:112 Resp: 24141

Ion Ratio Lower Upper

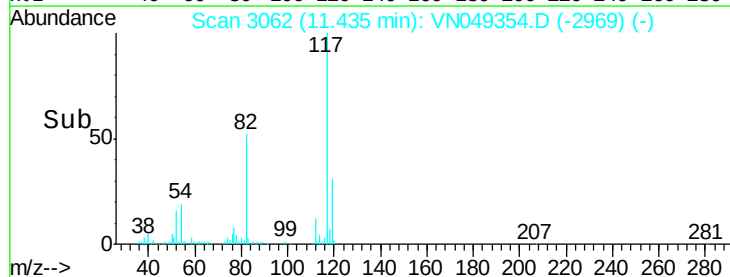
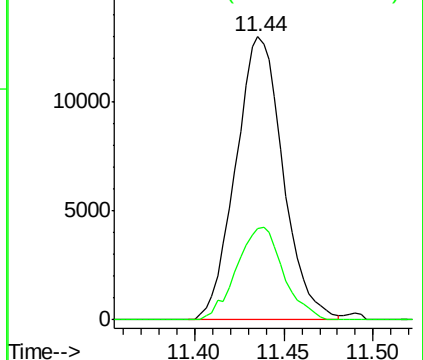
112 100

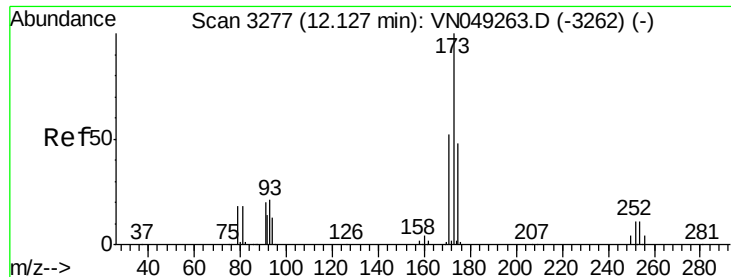
114 32.3 26.2 39.4



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V





#71

Bromoform

Concen: 0.50 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.28 min

Lab File: VN049354.D

Acq: 18 Jun 2018 19:57

Instrument :

MSVOA_N

ClientSampleId :

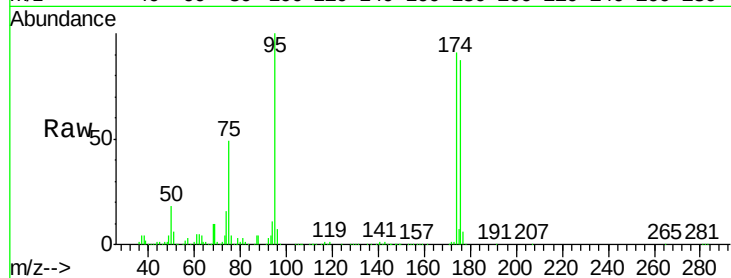
Tot Ion:173 Resp: 5036

Ion Ratio Lower Upper

173 100

175 700.4 24.5 73.5#

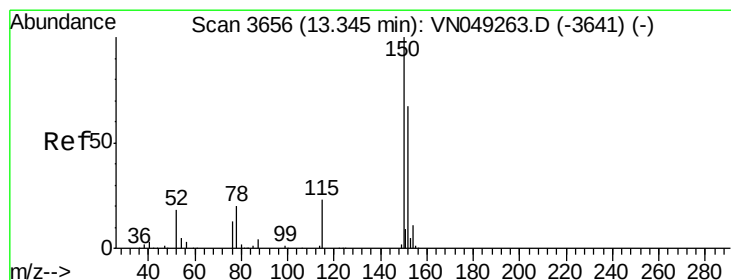
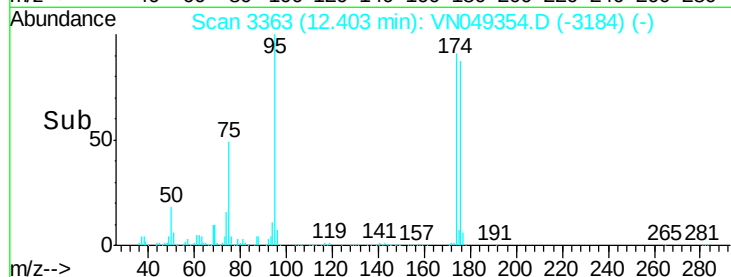
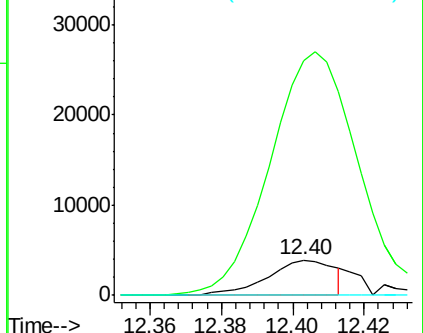
254 0.0 0.1 0.1#



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# 3657

Delta R.T. 0.00 min

Lab File: VN049354.D

Acq: 18 Jun 2018 19:57

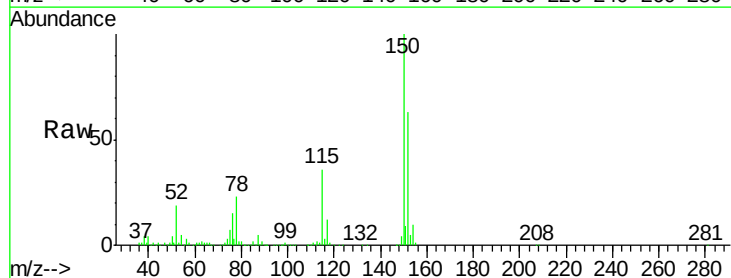
Tgt Ion:152 Resp: 495248

Ion Ratio Lower Upper

152 100

115 57.2 28.7 86.1

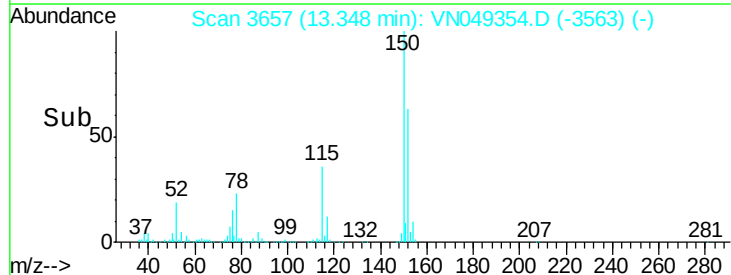
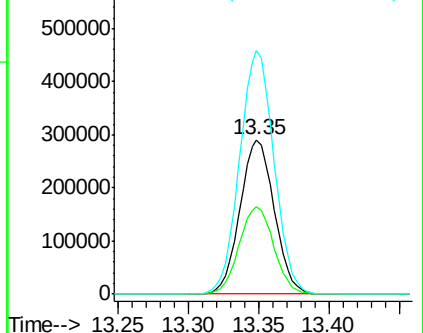
150 158.5 0.0 351.0

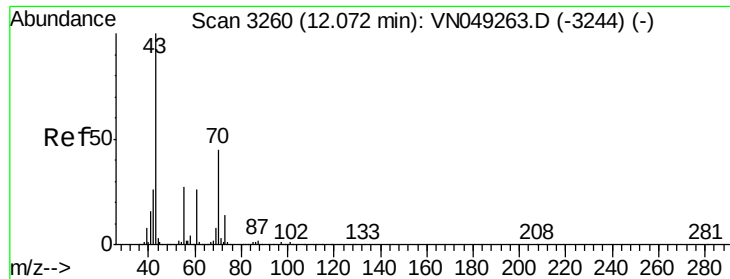


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 0.27 ug/l

RT: 12.05 min Scan# 3252

Delta R.T. -0.03 min

Lab File: VN049354.D

Acq: 18 Jun 2018 19:57

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 43 Resp: 2845

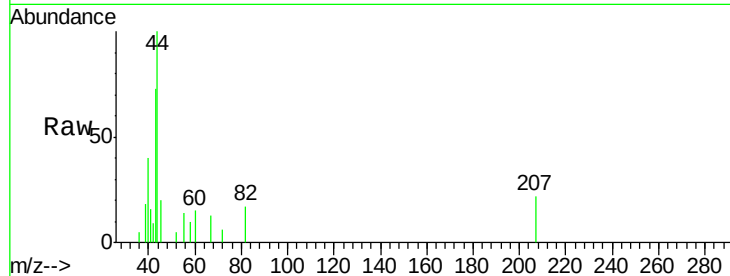
Ion Ratio Lower Upper

43 100

70 0.0 30.3 45.5#

55 13.7 19.4 29.2#

61 1.2 17.8 26.6#

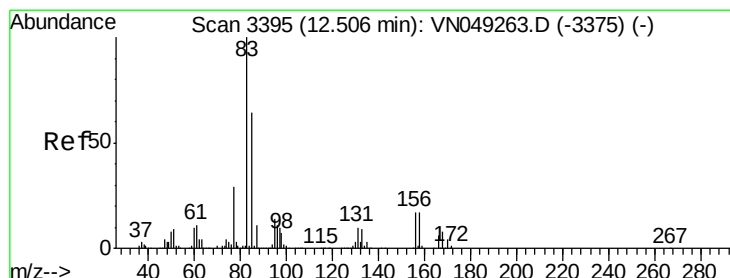
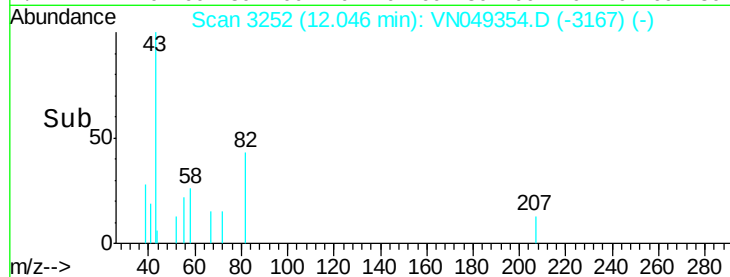
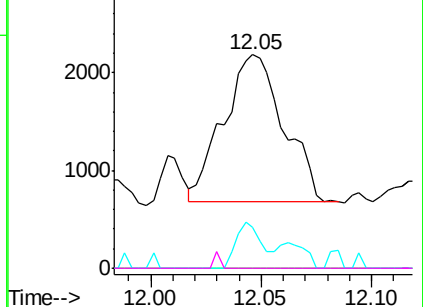


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.44 min Scan# 3373

Delta R.T. -0.07 min

Lab File: VN049354.D

Acq: 18 Jun 2018 19:57

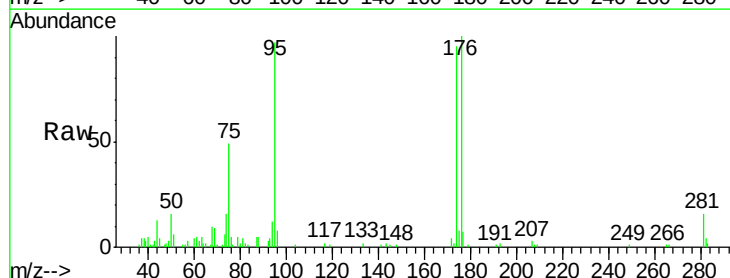
Tgt Ion: 83 Resp: 63

Ion Ratio Lower Upper

83 100

131 0.0 5.0 15.0#

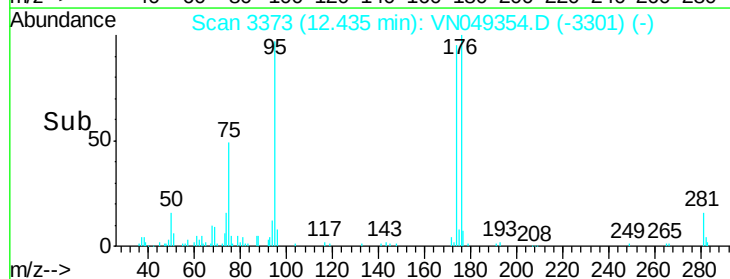
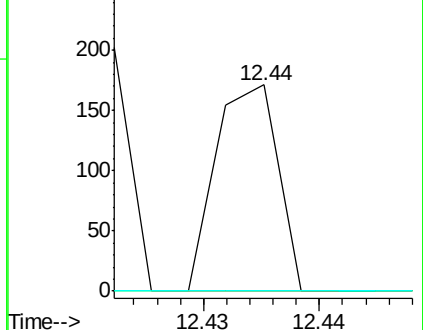
85 0.0 32.0 96.0#

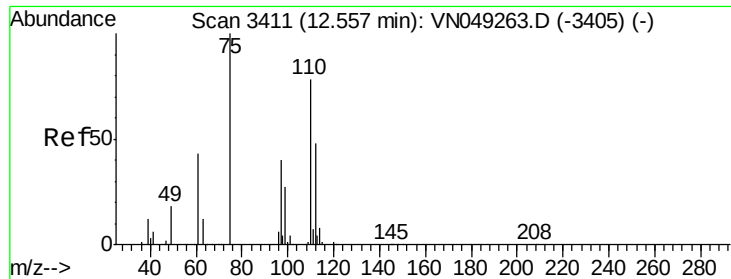


Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 130.80 (130.50 to 131.50): VN0

Ion 84.90 (84.60 to 85.60): VN0





#76

1,2,3-Trichloropropane

Concen: 39.37 ug/l

RT: 12.41 min Scan# 3364

Delta R.T. -0.15 min

Lab File: VN049354.D

Acq: 18 Jun 2018 19:57

Instrument :

MSVOA_N

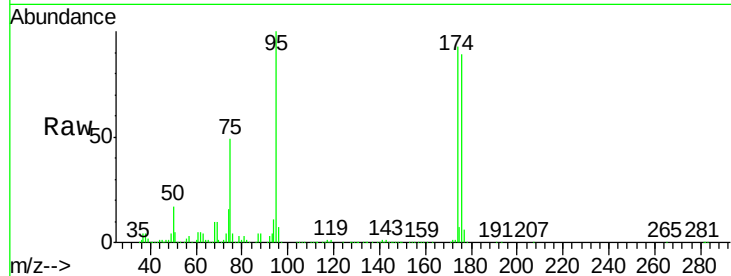
ClientSampled :

Tot Ion: 75 Resp: 332692

Ion Ratio Lower Upper

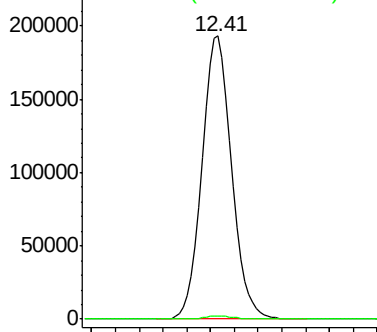
75 100

77 1.1 0.0 0.0#

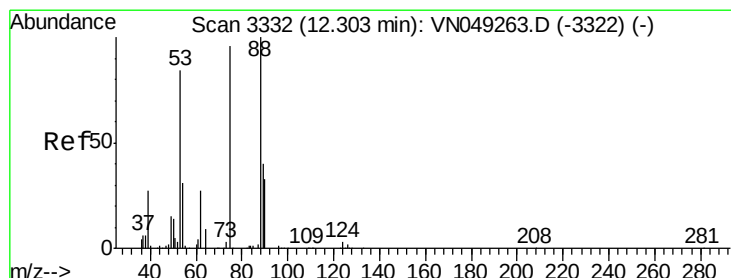
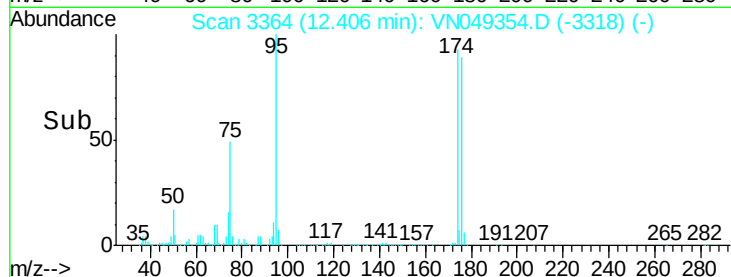


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



Time--> 12.30 12.40 12.50



#81

trans-1,4-Dichloro-2-butene

Concen: 124.43 ug/l

RT: 12.41 min Scan# 3364

Delta R.T. 0.10 min

Lab File: VN049354.D

Acq: 18 Jun 2018 19:57

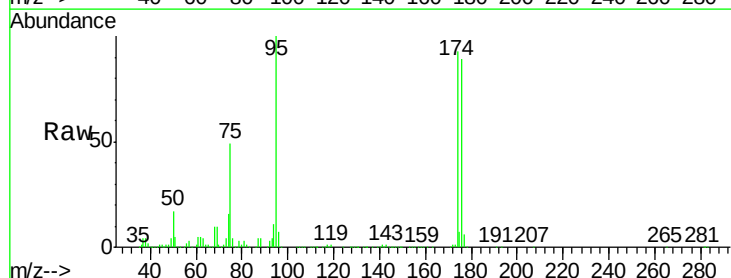
Tgt Ion: 75 Resp: 332692

Ion Ratio Lower Upper

75 100

53 0.3 82.7 124.1#

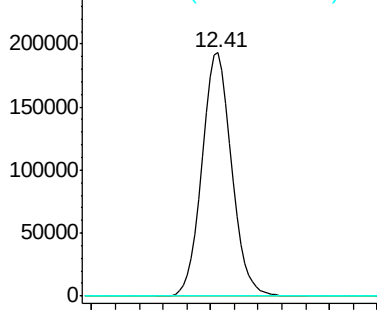
89 0.0 36.5 54.7#



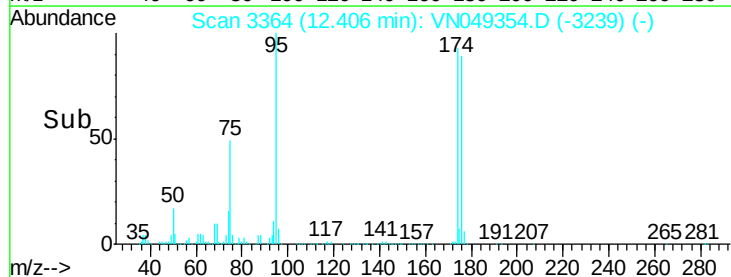
Abundance Ion 74.90 (74.60 to 75.60): VN0

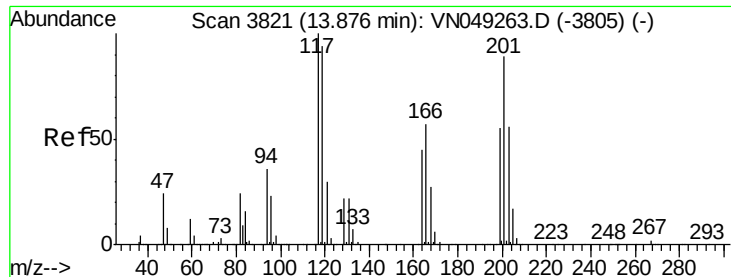
Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



Time--> 12.30 12.40 12.50





#90

Hexachloroethane

Concen: Below Cal

RT: 13.70 min Scan# 3766

Delta R.T. -0.18 min

Lab File: VN049354.D

Acq: 18 Jun 2018 19:57

Instrument :

MSVOA_N

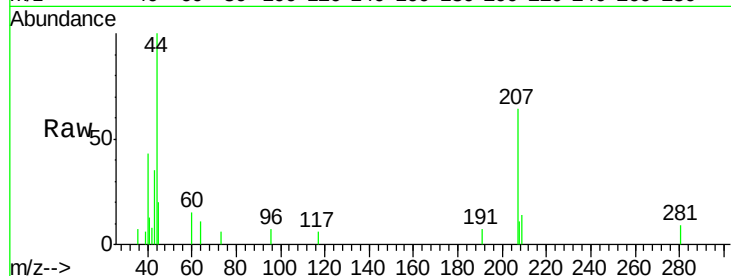
ClientSampleId :

Tot Ion:117 Resp: 63

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

13.70

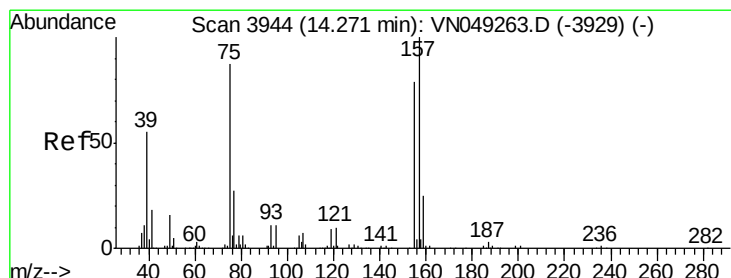
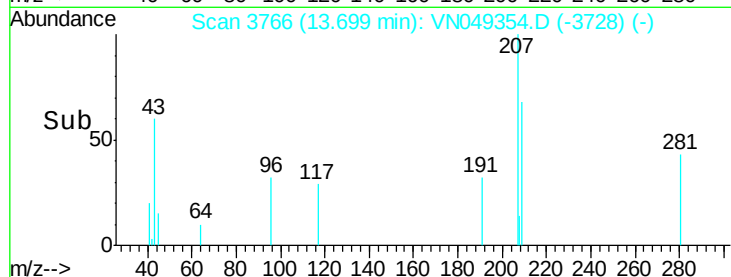
150

100

50

0

Time-->



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.53 ug/l

RT: 14.26 min Scan# 3940

Delta R.T. -0.01 min

Lab File: VN049354.D

Acq: 18 Jun 2018 19:57

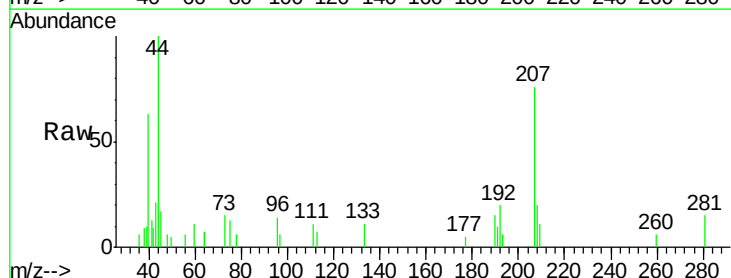
Tgt Ion: 75 Resp: 795

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

400

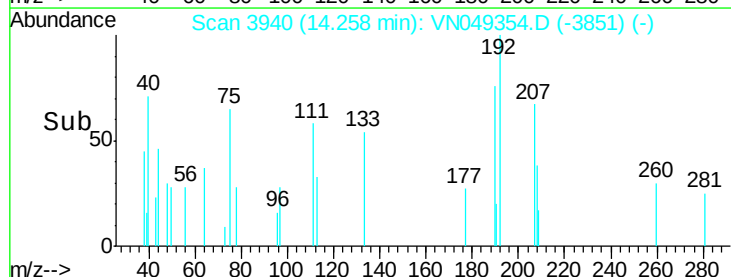
300

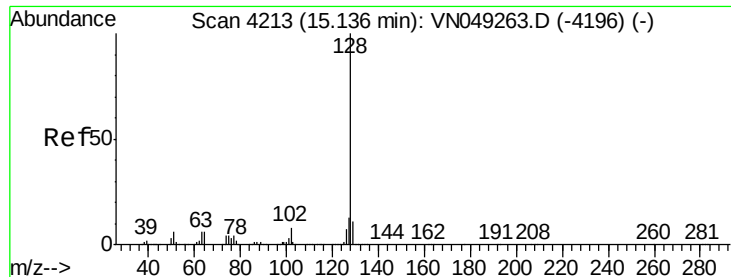
200

100

0

Time-->





#95

Naphthalene

Concen: 2.15 ug/l

RT: 15.14 min Scan# 4213

Delta R.T. 0.00 min

Lab File: VN049354.D

Acq: 18 Jun 2018 19:57

Instrument :

MSVOA_N

ClientSampled :

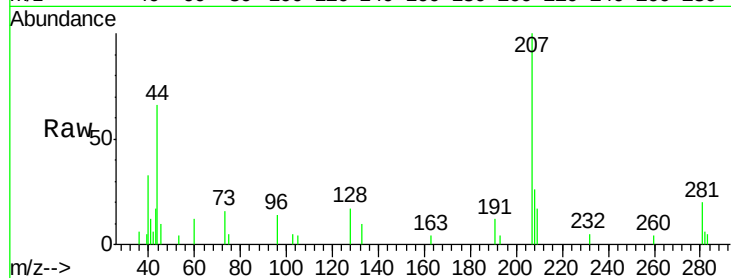
Tot Ion:128 Resp: 1033

Ion Ratio Lower Upper

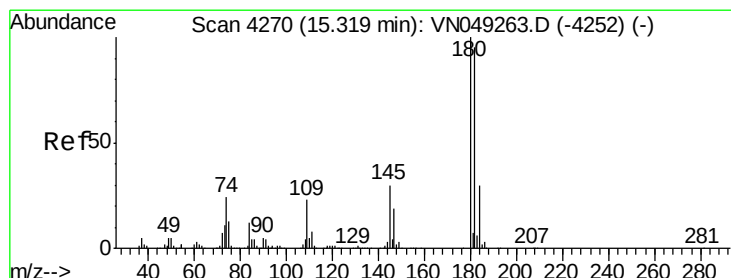
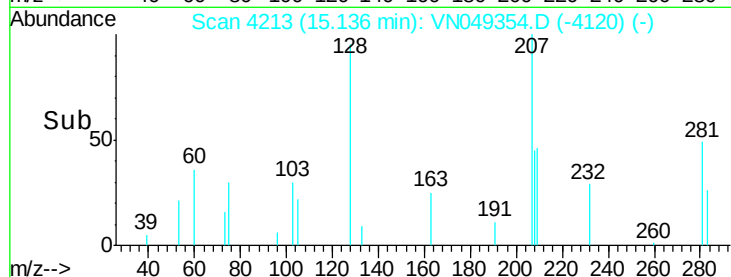
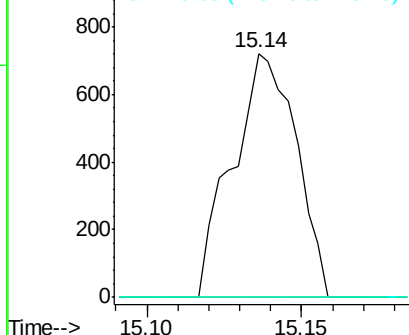
128 100

127 0.0 10.6 16.0#

129 0.0 8.5 12.7#



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 3.48 ug/l

RT: 15.31 min Scan# 4268

Delta R.T. -0.01 min

Lab File: VN049354.D

Acq: 18 Jun 2018 19:57

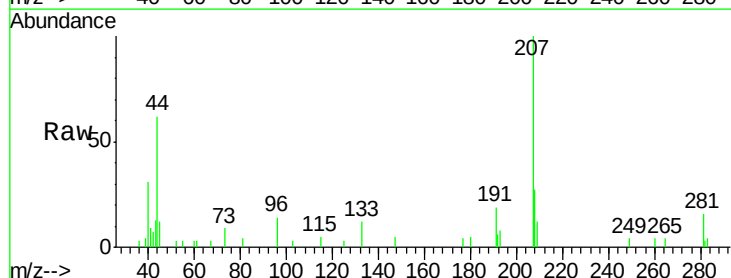
Tgt Ion:180 Resp: 239

Ion Ratio Lower Upper

180 100

182 0.0 47.3 141.8#

145 0.0 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

