

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071318\
 Data File : VN049809.D
 Acq On : 13 Jul 2018 20:29
 Operator : MD\SY
 Sample : PB111069ZHE#12
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB111069ZHE#12

Quant Time: Jul 13 23:53:59 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N071218W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 12 15:51:38 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1129570	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1870150	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1491344	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	516897	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	765984	58.29	ug/l	0.00
Spiked Amount			Recovery	=	116.58%	
35) Dibromofluoromethane	7.59	113	707809	50.21	ug/l	0.00
Spiked Amount			Recovery	=	100.42%	
50) Toluene-d8	10.09	98	2472518	51.24	ug/l	0.00
Spiked Amount			Recovery	=	102.48%	
62) 4-Bromofluorobenzene	12.40	95	650022	37.72	ug/l	0.00
Spiked Amount			Recovery	=	75.44%	

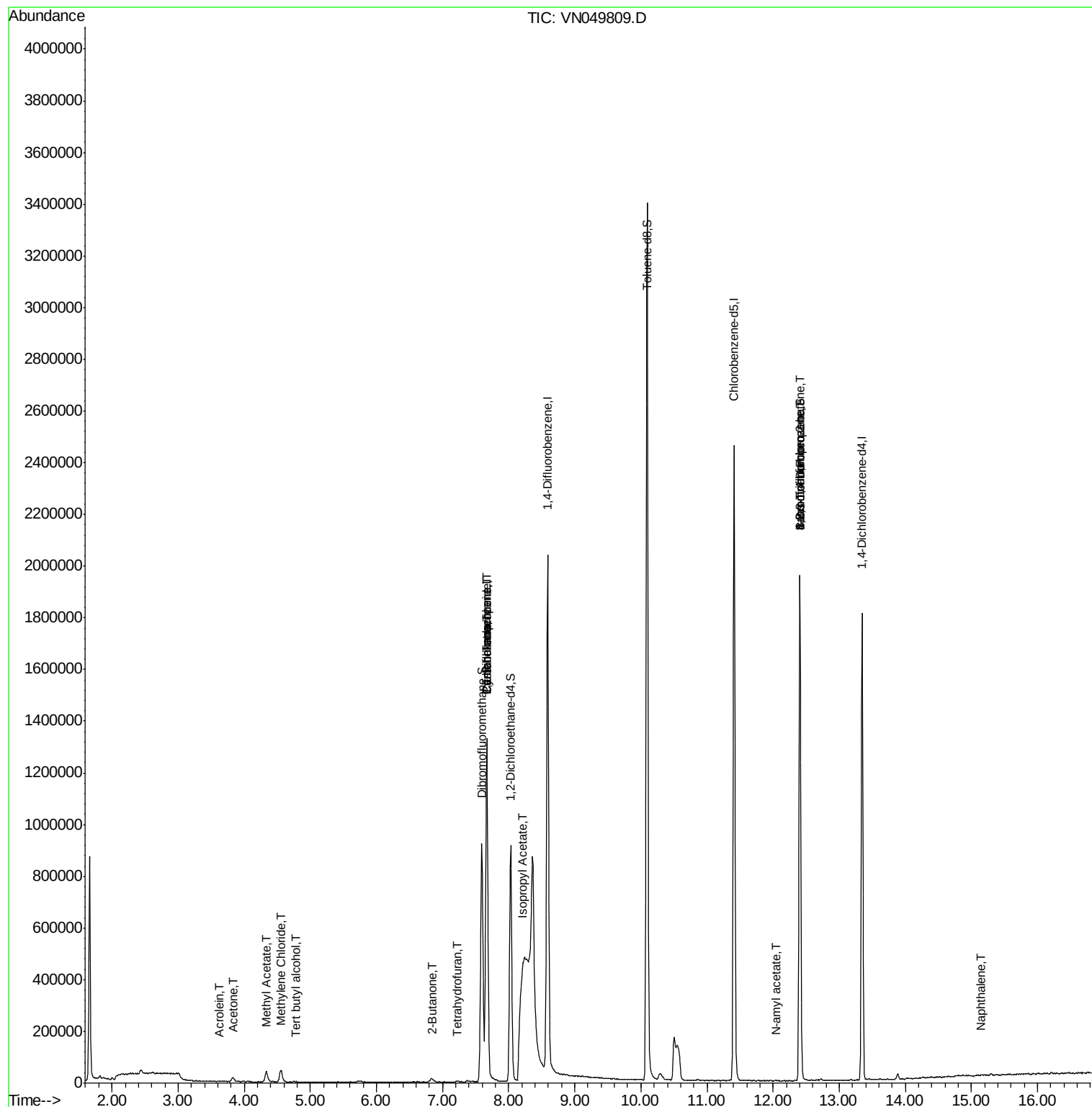
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.85	85	30	Below Cal	#	44
3) Chloromethane	2.06	50	2293	Below Cal	#	82
4) Vinyl Chloride	2.18	62	69	Below Cal	#	11
5) Bromomethane	2.56	94	1126	Below Cal	#	59
11) Tert butyl alcohol	4.79	59	326	0.37	ug/l	72
13) Acrolein	3.61	56	262	0.34	ug/l	43
16) Acetone	3.83	43	29570	7.13	ug/l	93
17) Carbon Disulfide	4.06	76	2717	Below Cal	#	75
18) Methyl Acetate	4.33	43	76335	6.31	ug/l	99
20) Methylene Chloride	4.55	84	33145	1.57	ug/l	97
25) 2-Butanone	6.85	43	5192	1.01	ug/l	95
29) Tetrahydrofuran	7.23	42	1499	0.47	ug/l	86
31) Cyclohexane	7.67	56	22492	0.85	ug/l	1
36) 1,1-Dichloropropene	7.67	75	78939	3.66	ug/l	48
38) Carbon Tetrachloride	7.67	117	102110	4.53	ug/l	16
43) Isopropyl Acetate	8.22	43	526975	22.98	ug/l	64
55) 1,1,2-Trichloroethane	10.57	97	2613	Below Cal	#	15
71) Bromoform	12.40	173	5260	0.53	ug/l	1
74) N-amyl acetate	12.04	43	3158	0.28	ug/l	43
75) 1,1,2,2-Tetrachloroethane	12.43	83	61	Below Cal	#	25
76) 1,2,3-Trichloropropane	12.40	75	319657	34.81	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.40	75	319657	112.42	ug/l	13
90) Hexachloroethane	13.89	117	69	Below Cal	#	4
95) Naphthalene	15.13	128	808	4.06	ug/l	69

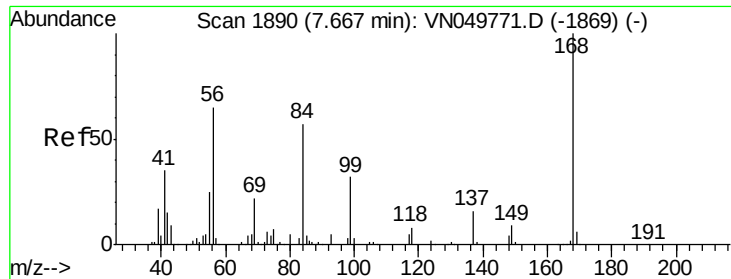
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN071318\
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Acq On : 13 Jul 2018 20:29
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Sample : PB111069ZHE#12
Misc : 5.00mL/MSVOA N/WATER
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Instrument :
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ClientSampleId :
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Quant Time: Jul 13 23:53:59 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N071218W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 12 15:51:38 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: VN049809.D

Acq: 13 Jul 2018 20:29

Instrument :

MSVOA_N

ClientSampleId :

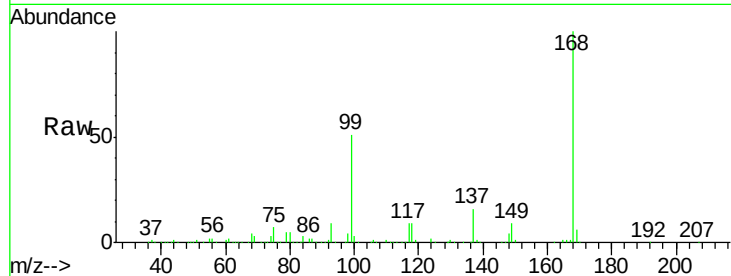
PB111069ZHE#12

Tot Ion:168 Resp: 1129570

Ion Ratio Lower Upper

168 100

99 50.7 40.6 61.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

500000

400000

300000

200000

100000

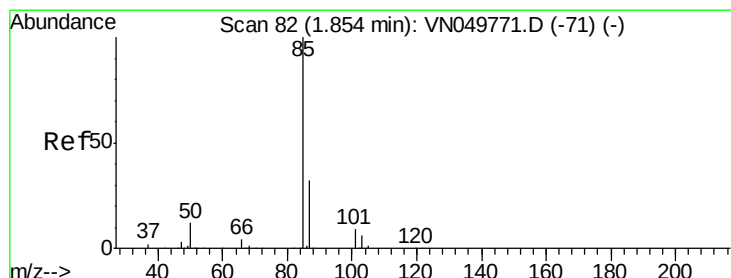
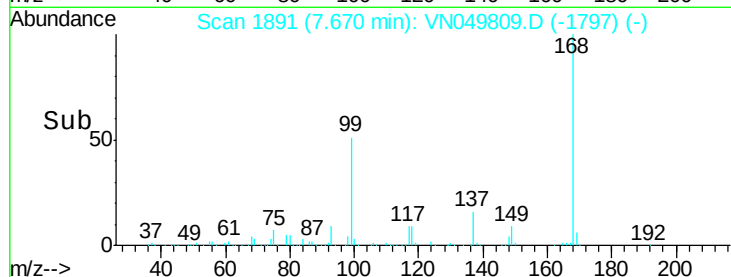
0

Time-->

7.60

7.70

7.80



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.85 min Scan# 82

Delta R.T. 0.00 min

Lab File: VN049809.D

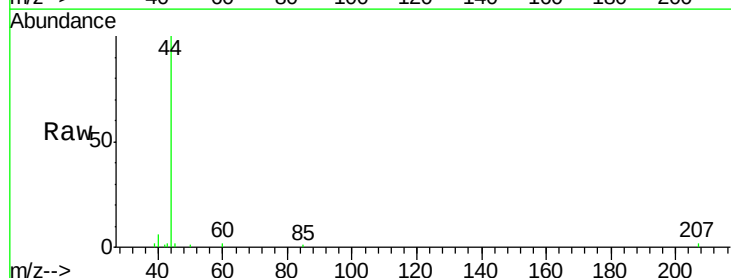
Acq: 13 Jul 2018 20:29

Tgt Ion: 85 Resp: 30

Ion Ratio Lower Upper

85 100

87 0.0 15.4 46.1#



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.85

150

100

50

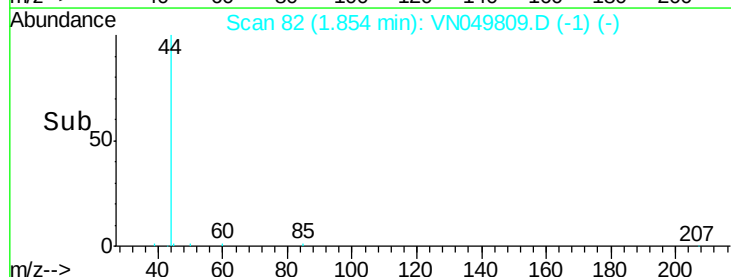
0

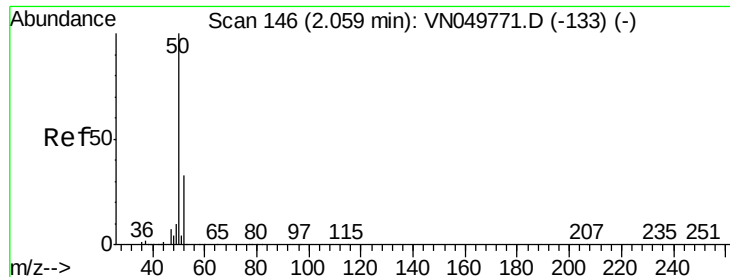
Time-->

1.85

1.86

1.87





#3

Chloromethane

Concen: Below Cal

RT: 2.06 min Scan# 146

Delta R.T. 0.00 min

Lab File: VN049809.D

Acq: 13 Jul 2018 20:29

Instrument :

MSVOA_N

ClientSampleId :

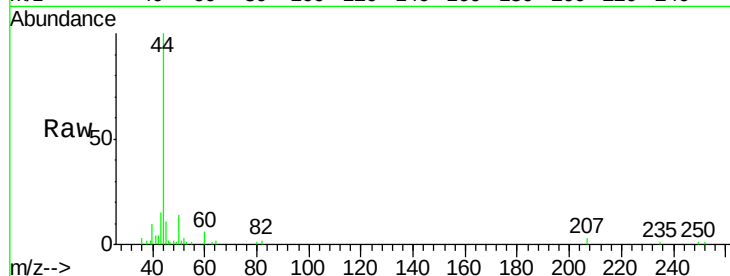
PB111069ZHE#12

Tot Ion: 50 Resp: 2293

Ion Ratio Lower Upper

50 100

52 22.4 26.1 39.1#

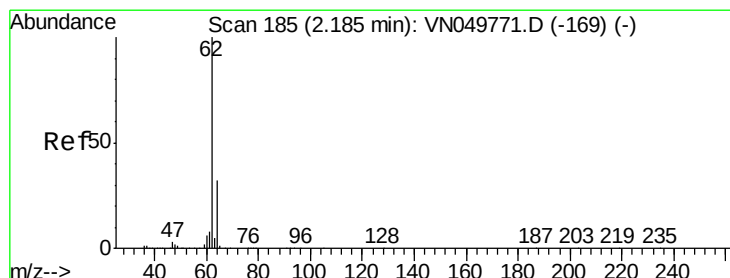
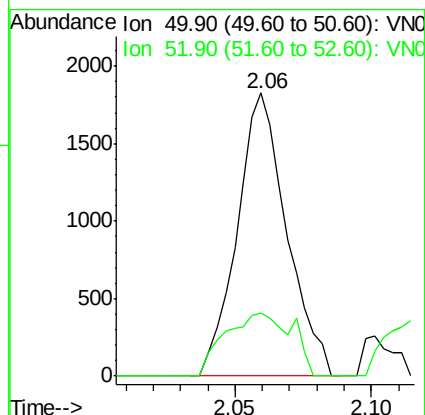
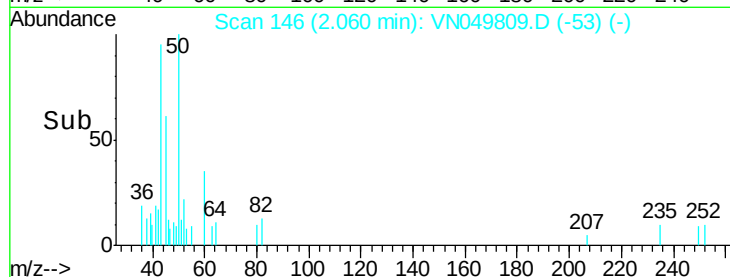


Abundance Ion 49.90 (49.60 to 50.60): VN049809.D (-53) (-)

Ion 51.90 (51.60 to 52.60): VN049809.D (-53) (-)

2.06

2.10



#4

Vinyl Chloride

Concen: Below Cal

RT: 2.18 min Scan# 182

Delta R.T. -0.01 min

Lab File: VN049809.D

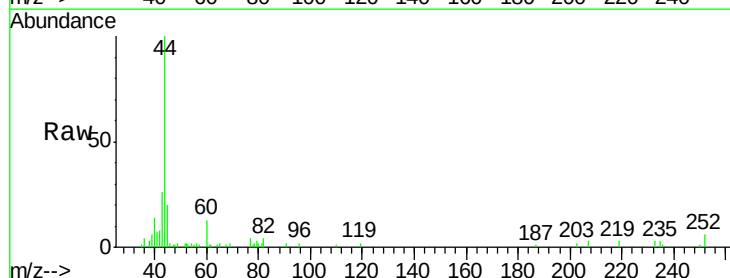
Acq: 13 Jul 2018 20:29

Tgt Ion: 62 Resp: 69

Ion Ratio Lower Upper

62 100

64 81.4 25.4 38.0#

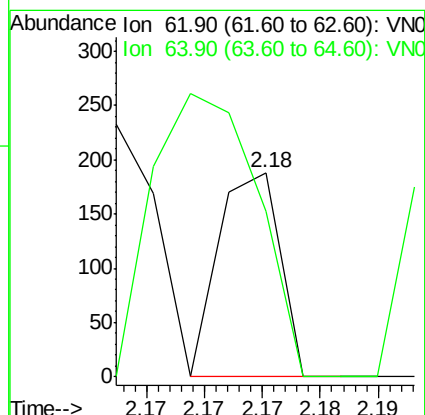
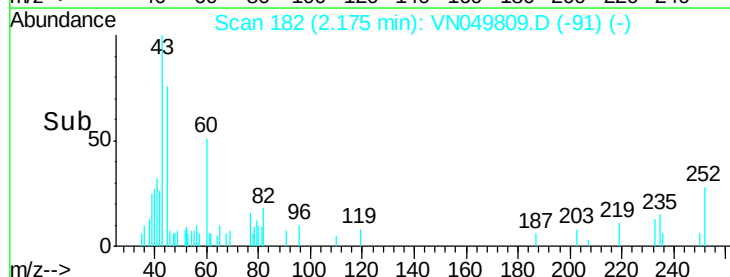


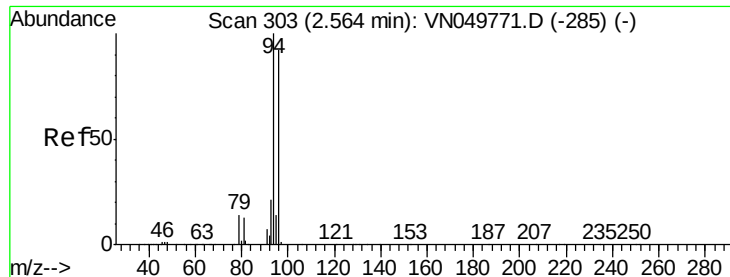
Abundance Ion 61.90 (61.60 to 62.60): VN049809.D (-91) (-)

Ion 63.90 (63.60 to 64.60): VN049809.D (-91) (-)

2.18

2.19





#5

Bromomethane

Concen: Below Cal

RT: 2.56 min Scan# 303

Delta R.T. 0.00 min

Lab File: VN049809.D

Acq: 13 Jul 2018 20:29

Instrument :

MSVOA_N

ClientSampleId :

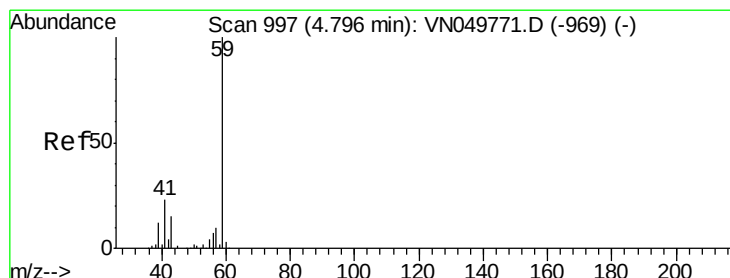
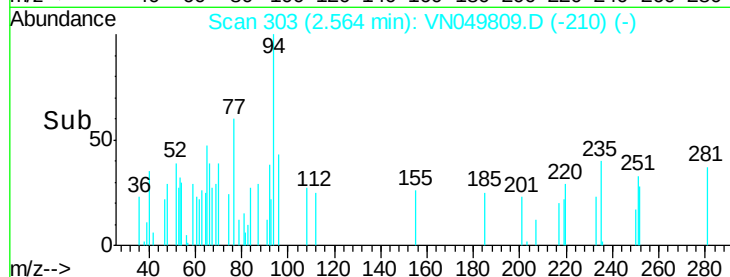
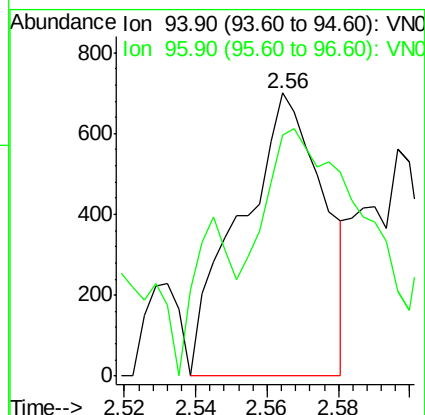
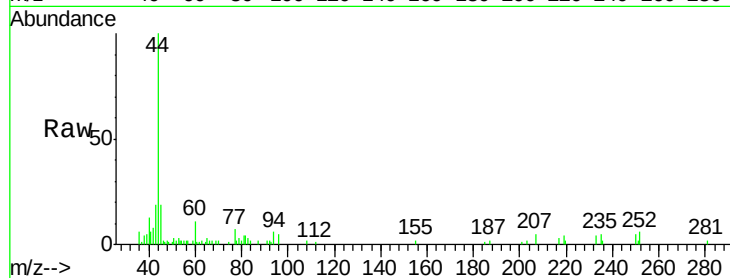
PB111069ZHE#12

Tot Ion: 94 Resp: 1126

Ion Ratio Lower Upper

94 100

96 54.9 75.7 113.5#



#11

Tert butyl alcohol

Concen: 0.37 ug/l

RT: 4.79 min Scan# 996

Delta R.T. -0.00 min

Lab File: VN049809.D

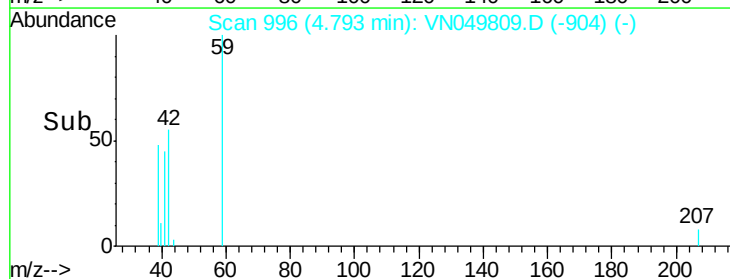
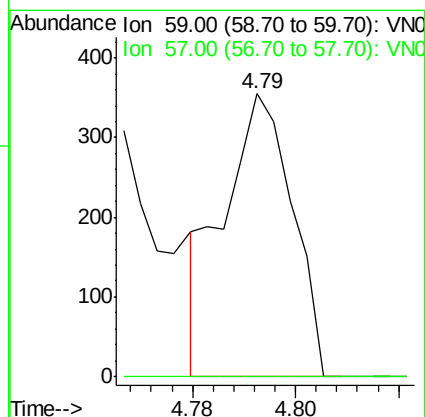
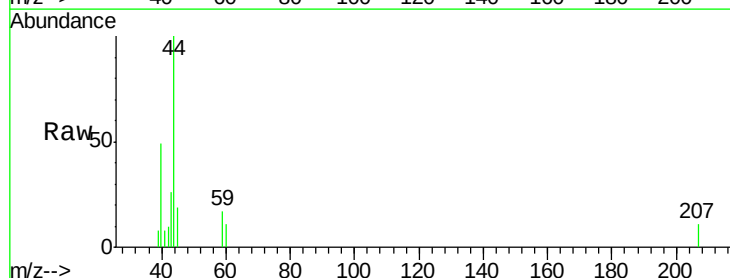
Acq: 13 Jul 2018 20:29

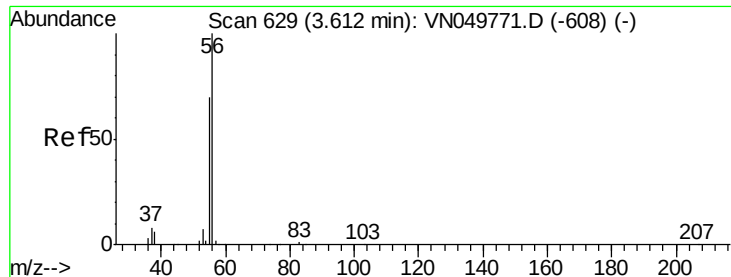
Tgt Ion: 59 Resp: 326

Ion Ratio Lower Upper

59 100

57 0.0 8.5 12.7#





#13

Acrolein

Concen: 0.34 ug/l

RT: 3.61 min Scan# 629

Delta R.T. 0.00 min

Lab File: VN049809.D

Acq: 13 Jul 2018 20:29

Instrument :

MSVOA_N

ClientSampleId :

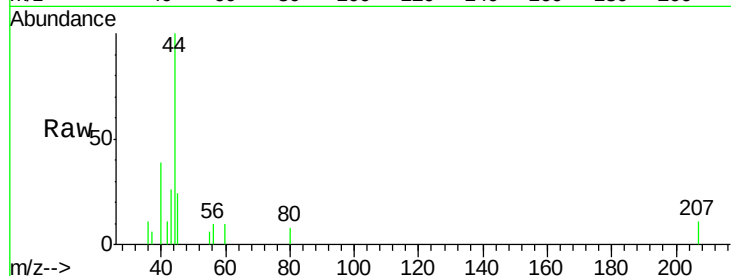
PB111069ZHE#12

Tot Ion: 56 Resp: 262

Ion Ratio Lower Upper

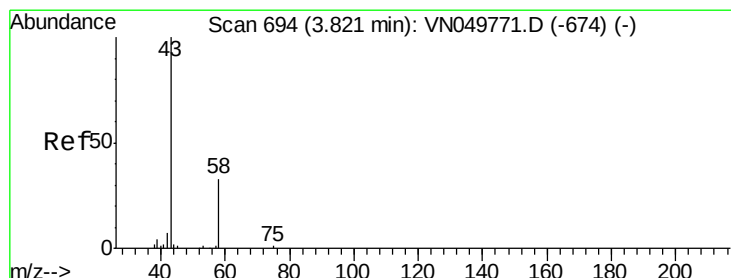
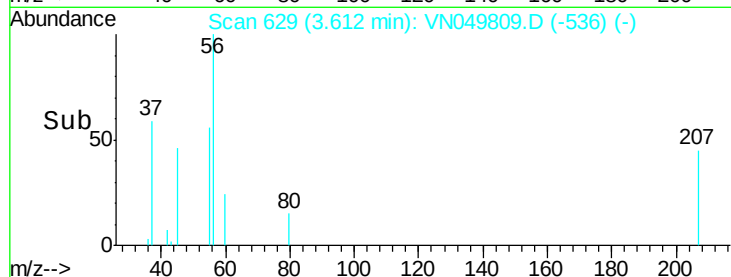
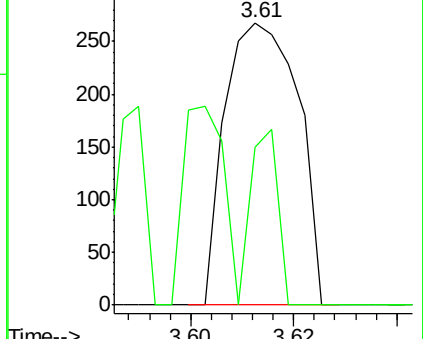
56 100

55 23.3 55.8 83.8#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#16

Acetone

Concen: 7.13 ug/l

RT: 3.83 min Scan# 696

Delta R.T. 0.01 min

Lab File: VN049809.D

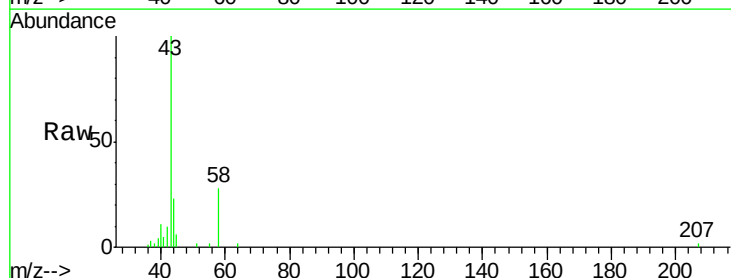
Acq: 13 Jul 2018 20:29

Tgt Ion: 43 Resp: 29570

Ion Ratio Lower Upper

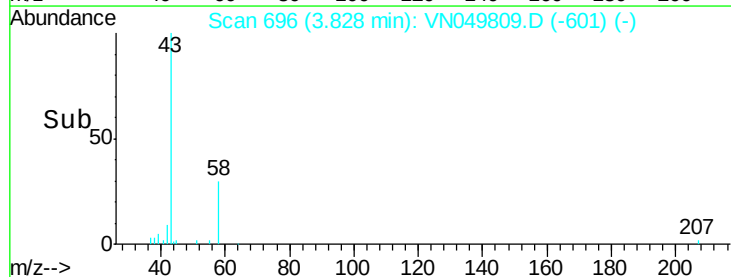
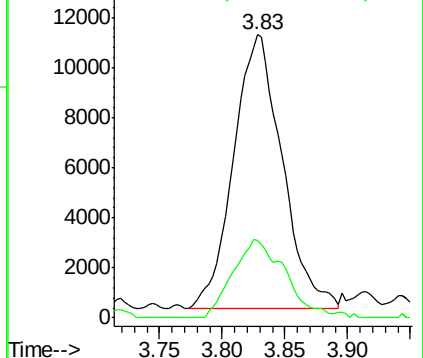
43 100

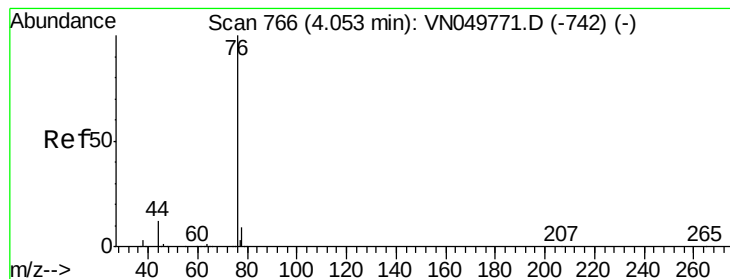
58 28.5 25.9 38.9



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#17

Carbon Disulfide

Concen: Below Cal

RT: 4.06 min Scan# 768

Delta R.T. 0.01 min

Lab File: VN049809.D

Acq: 13 Jul 2018 20:29

Instrument :

MSVOA_N

ClientSampleId :

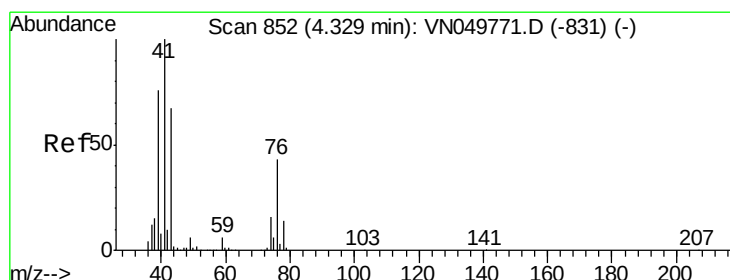
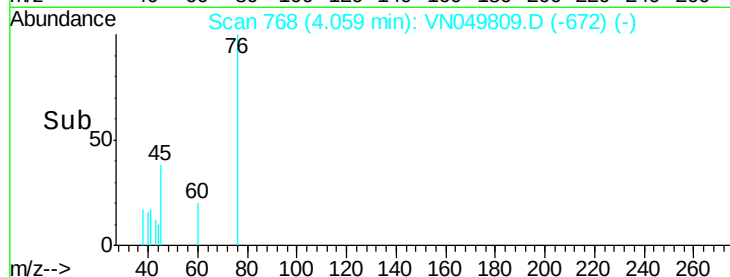
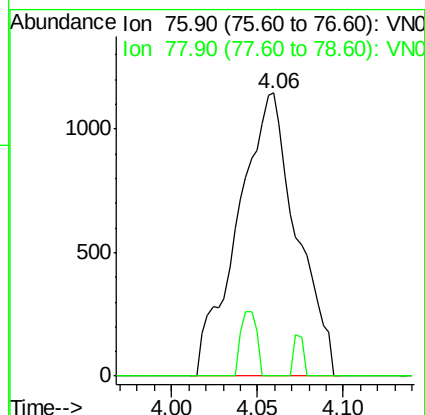
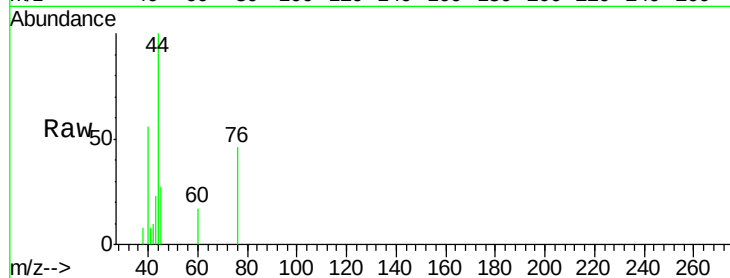
PB111069ZHE#12

Tot Ion: 76 Resp: 2717

Ion Ratio Lower Upper

76 100

78 0.0 7.1 10.7#



#18

Methyl Acetate

Concen: 6.31 ug/l

RT: 4.33 min Scan# 853

Delta R.T. 0.00 min

Lab File: VN049809.D

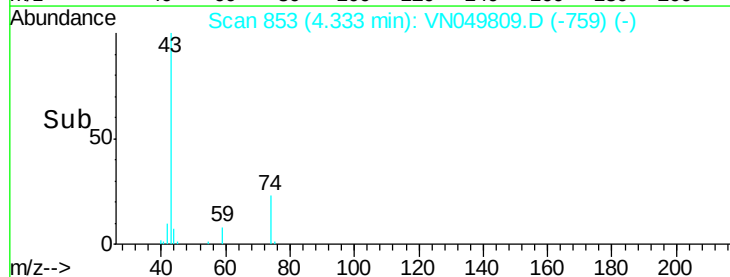
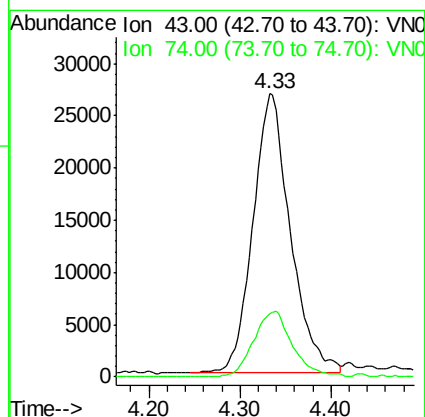
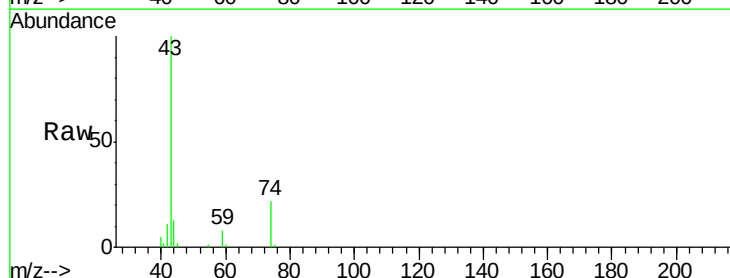
Acq: 13 Jul 2018 20:29

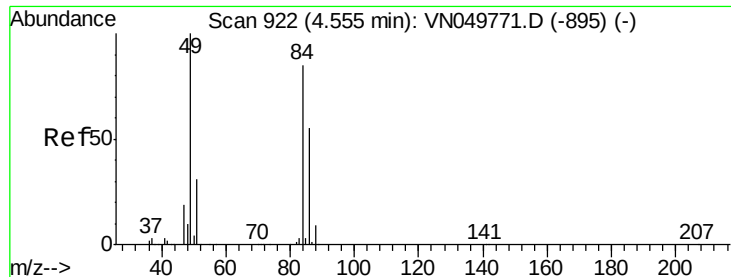
Tgt Ion: 43 Resp: 76335

Ion Ratio Lower Upper

43 100

74 24.5 19.8 29.8

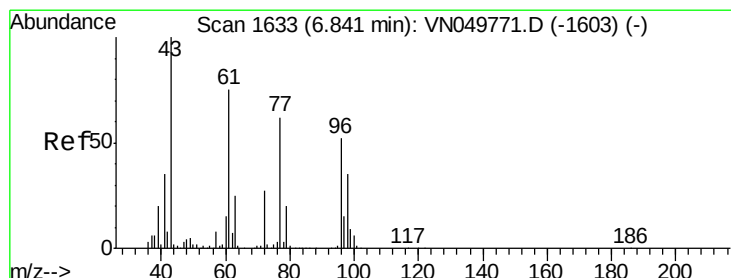
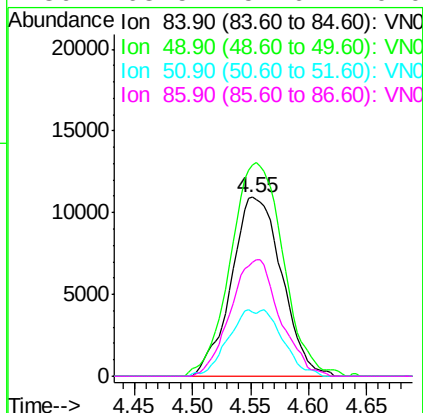
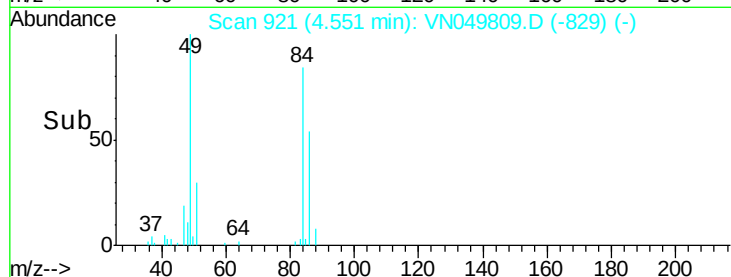
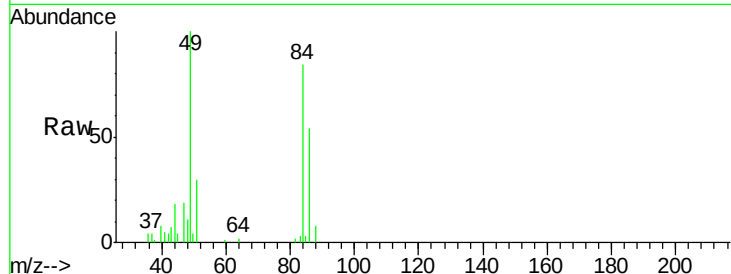




#20
Methvlene Chloride
Concen: 1.57 ug/l
RT: 4.55 min Scan# 921
Delta R.T. -0.00 min
Lab File: VN049809.D
Acq: 13 Jul 2018 20:29

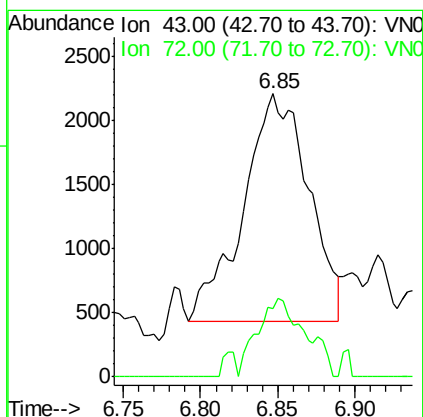
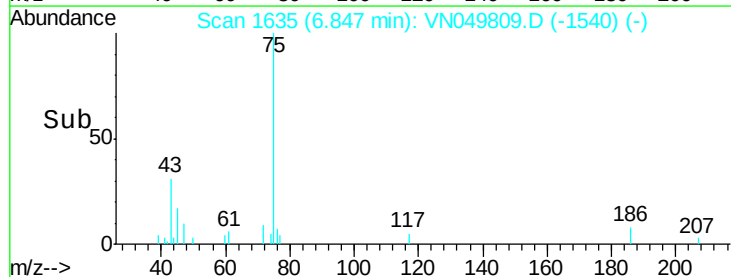
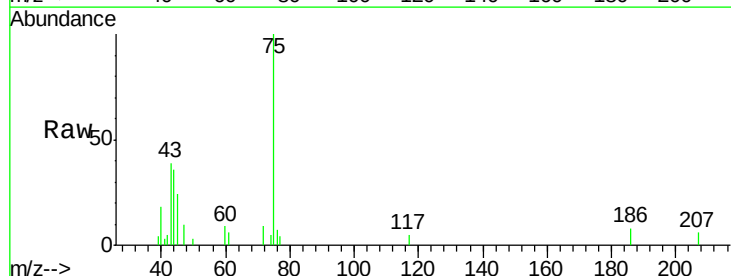
Instrument :
MSVOA_N
ClientSampleId :
PB111069ZHE#12

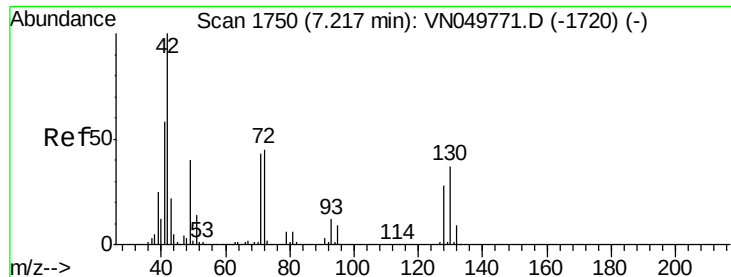
Tot Ion: 84 Resp: 33145
Ion Ratio Lower Upper
84 100
49 116.1 95.4 143.2
51 36.1 28.4 42.6
86 63.5 52.6 79.0



#25
2-Butanone
Concen: 1.01 ug/l
RT: 6.85 min Scan# 1635
Delta R.T. 0.01 min
Lab File: VN049809.D
Acq: 13 Jul 2018 20:29

Tgt Ion: 43 Resp: 5192
Ion Ratio Lower Upper
43 100
72 30.1 22.1 33.1

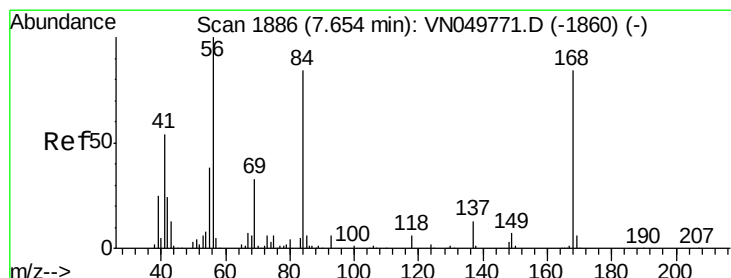
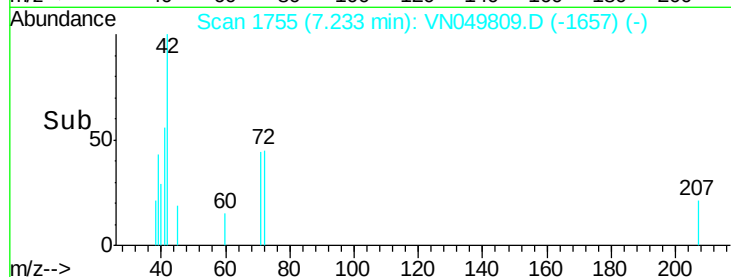
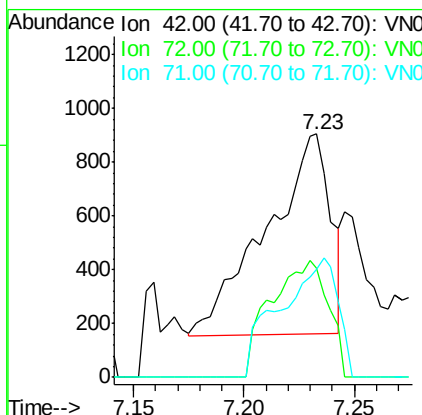
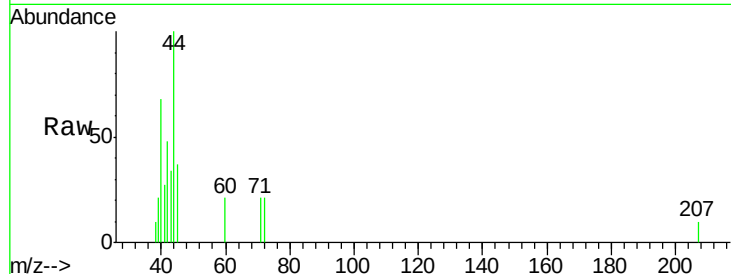




#29
Tetrahydrofuran
Concen: 0.47 ug/l
RT: 7.23 min Scan# 1755
Delta R.T. 0.02 min
Lab File: VN049809.D
Acq: 13 Jul 2018 20:29

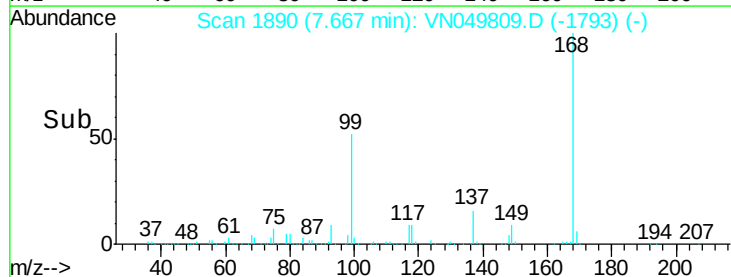
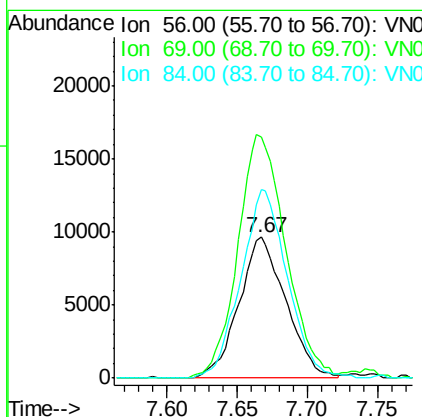
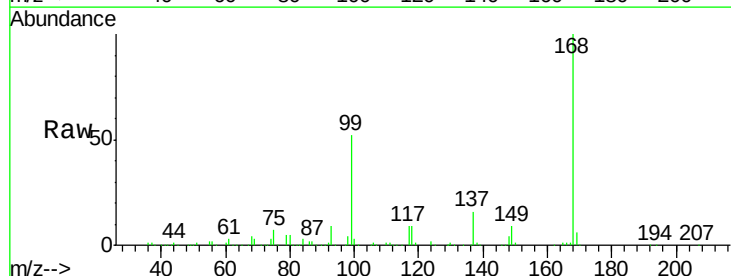
Instrument :
MSVOA_N
ClientSampleId :
PB111069ZHE#12

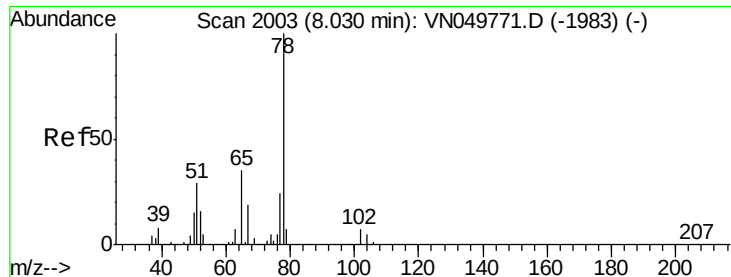
Tot Ion: 42 Resp: 1499
Ion Ratio Lower Upper
42 100
72 52.1 35.6 53.4
71 53.4 34.0 51.0#



#31
Cyclohexane
Concen: 0.85 ug/l
RT: 7.67 min Scan# 1890
Delta R.T. 0.01 min
Lab File: VN049809.D
Acq: 13 Jul 2018 20:29

Tgt Ion: 56 Resp: 22492
Ion Ratio Lower Upper
56 100
69 171.6 26.6 40.0#
84 133.8 69.0 103.6#

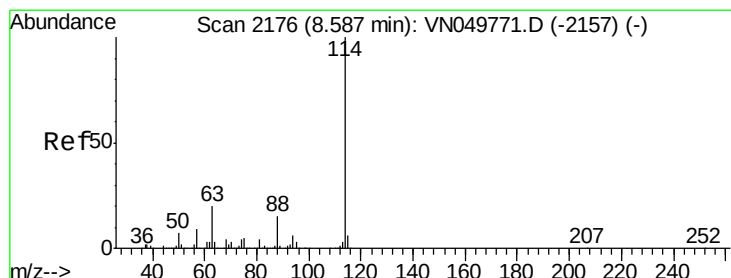
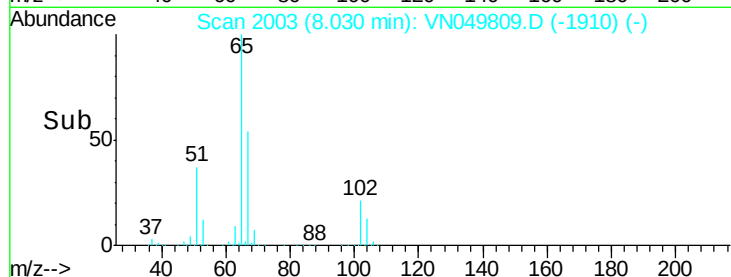
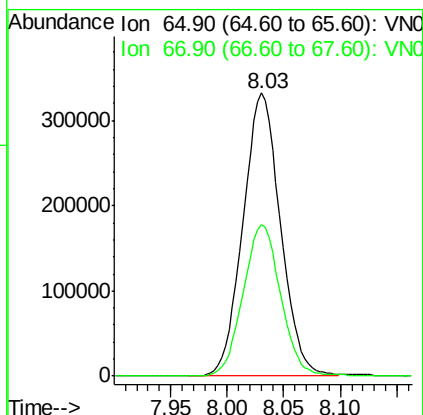
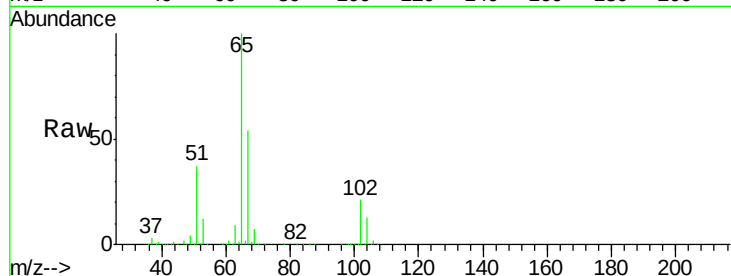




#33
 1,2-Dichloroethane-d4
 Concen: 58.29 ug/l
 RT: 8.03 min Scan# 2003
 Delta R.T. 0.00 min
 Lab File: VN049809.D
 Acq: 13 Jul 2018 20:29

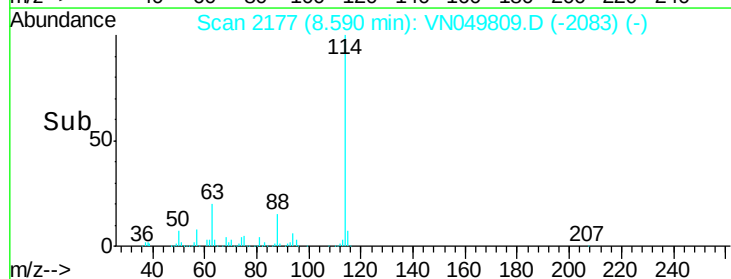
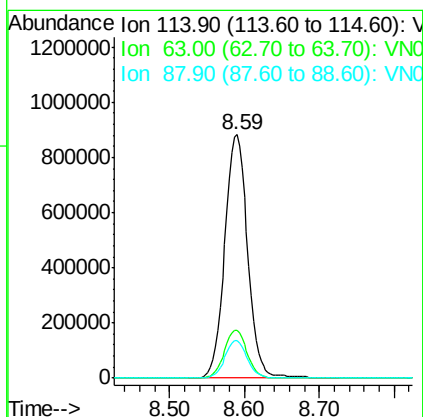
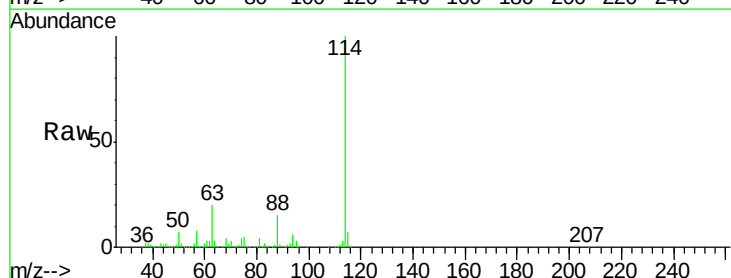
Instrument :
 MSVOA_N
 ClientSampleId :
 PB111069ZHE#12

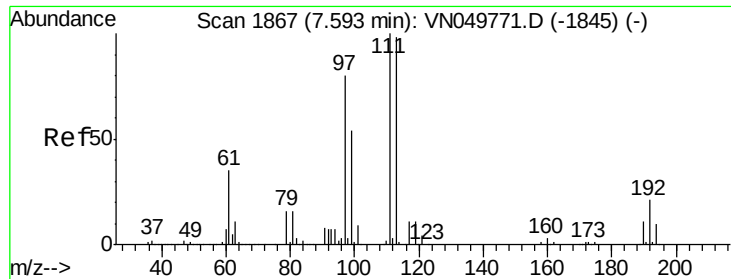
Tot Ion: 65 Resp: 765984
 Ion Ratio Lower Upper
 65 100
 67 53.7 0.0 107.2



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VN049809.D
 Acq: 13 Jul 2018 20:29

Tgt Ion: 114 Resp: 1870150
 Ion Ratio Lower Upper
 114 100
 63 19.7 0.0 39.8
 88 15.4 0.0 30.6

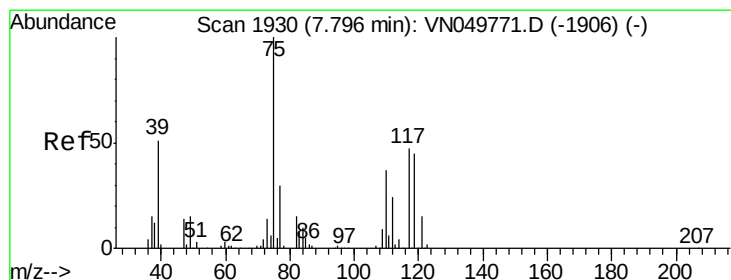
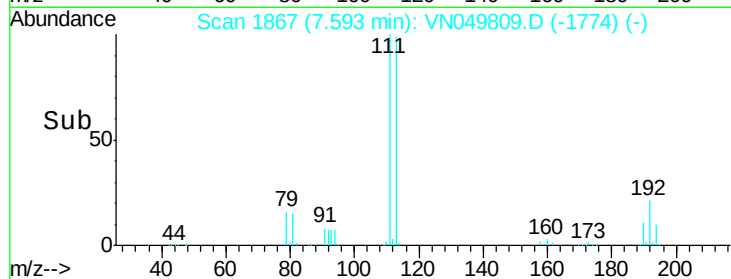
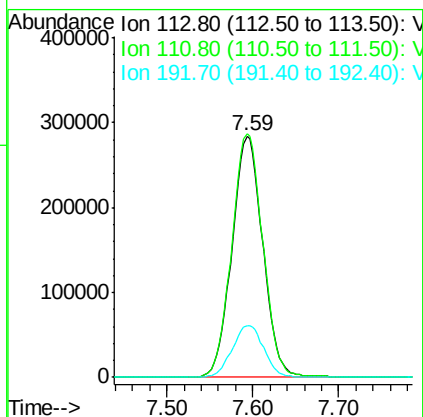
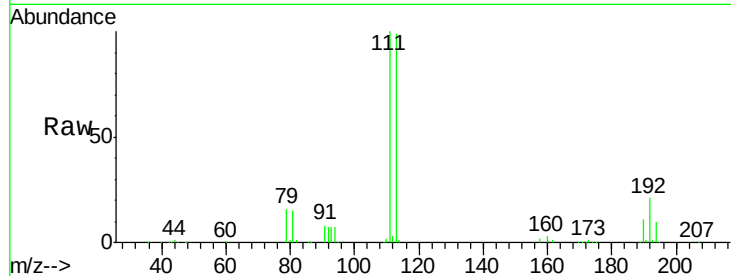




#35
 Dibromofluoromethane
 Concen: 50.21 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VN049809.D
 Acq: 13 Jul 2018 20:29

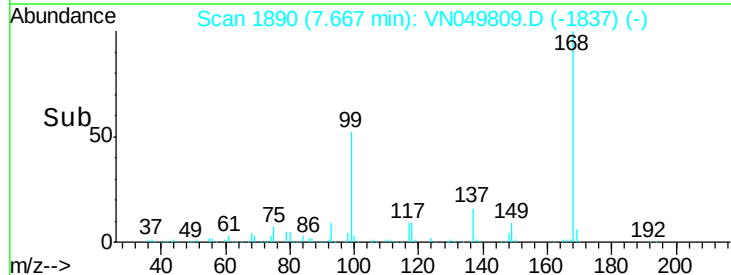
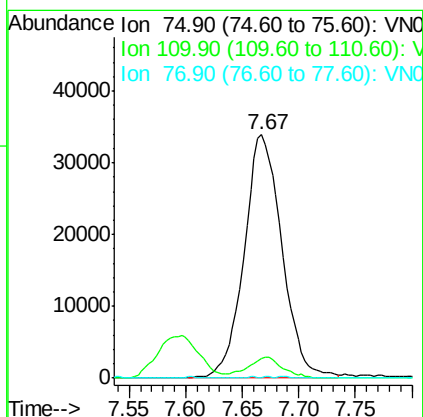
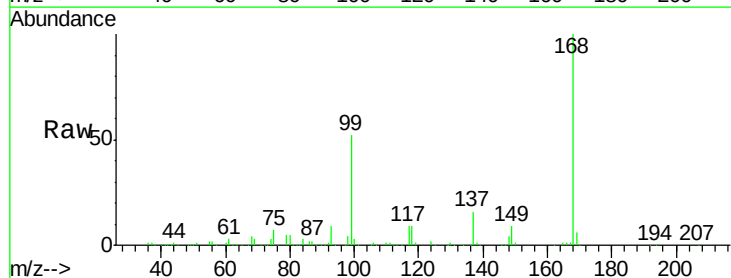
Instrument :
 MSVOA_N
 ClientSampleId :
 PB111069ZHE#12

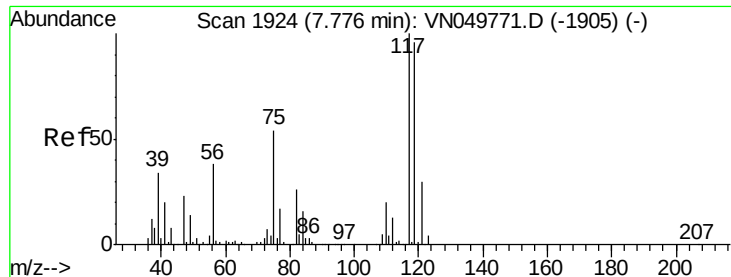
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.4	81.8	122.8
192	22.1	17.8	26.6



#36
 1,1-Dichloropropene
 Concen: 3.66 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.13 min
 Lab File: VN049809.D
 Acq: 13 Jul 2018 20:29

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.0	18.1	54.4#
77	0.1	24.9	37.3#

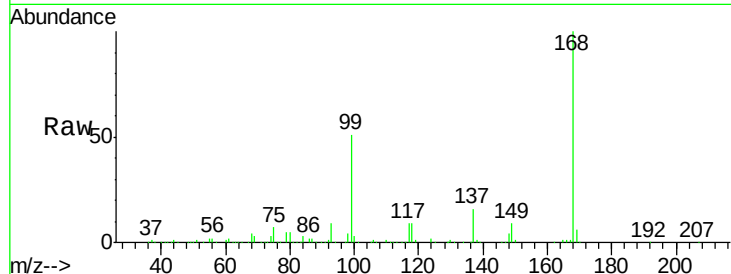




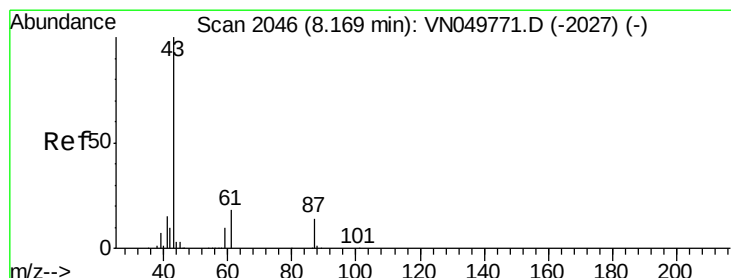
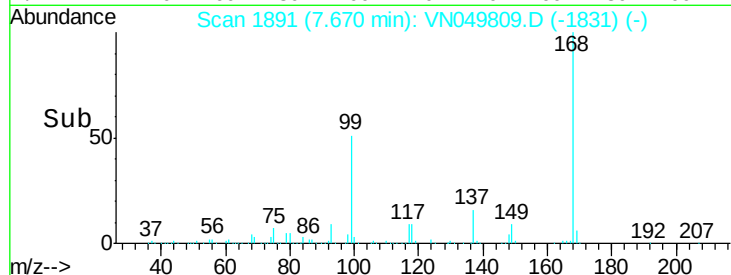
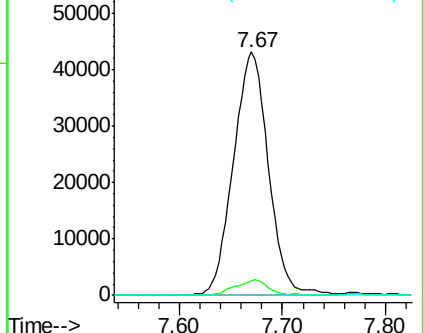
#38
Carbon Tetrachloride
Concen: 4.53 ug/l
RT: 7.67 min Scan# 1891
Delta R.T. -0.11 min
Lab File: VN049809.D
Acq: 13 Jul 2018 20:29

Instrument :
MSVOA_N
ClientSampleId :
PB111069ZHE#12

Tot Ion:117 Resp: 102110
Ion Ratio Lower Upper
117 100
119 6.1 77.2 115.8#
121 0.0 25.0 37.6#

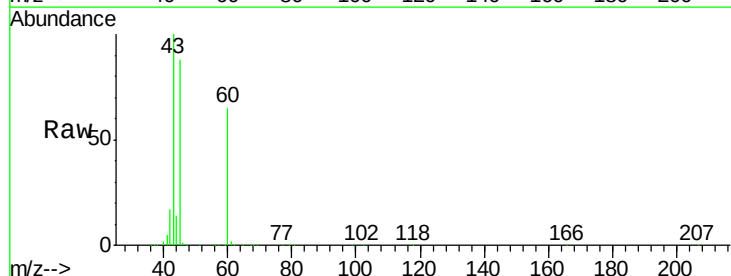


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

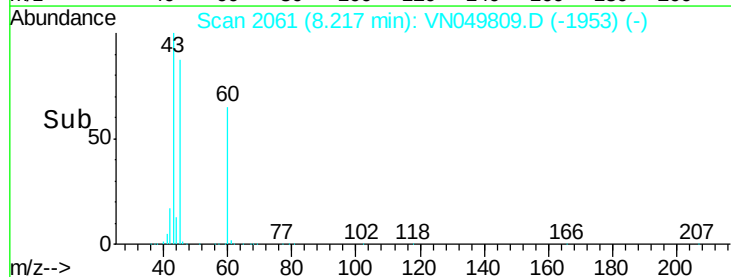
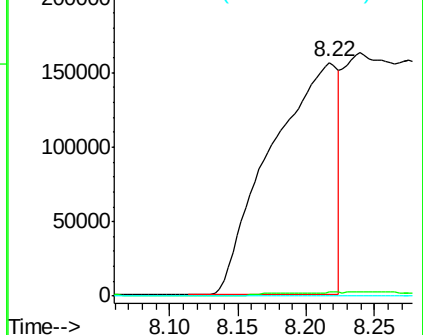


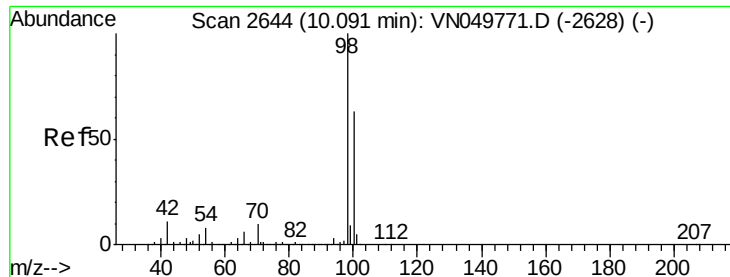
#43
Isopropyl Acetate
Concen: 22.98 ug/l
RT: 8.22 min Scan# 2061
Delta R.T. 0.05 min
Lab File: VN049809.D
Acq: 13 Jul 2018 20:29

Tgt Ion: 43 Resp: 526975
Ion Ratio Lower Upper
43 100
61 1.0 14.9 22.3#
87 0.0 10.0 15.0#



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





#50

Toluene-d8

Concen: 51.24 ug/l

RT: 10.09 min Scan# 2645

Delta R.T. 0.00 min

Lab File: VN049809.D

Acq: 13 Jul 2018 20:29

Instrument :

MSVOA_N

ClientSampleId :

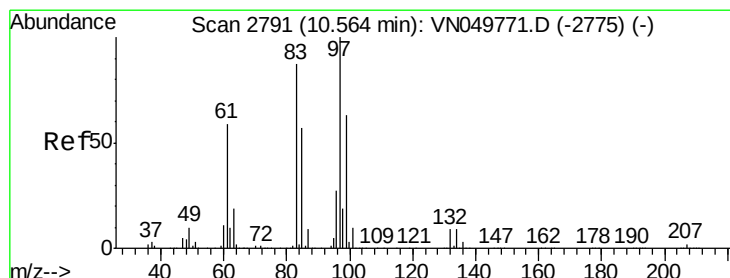
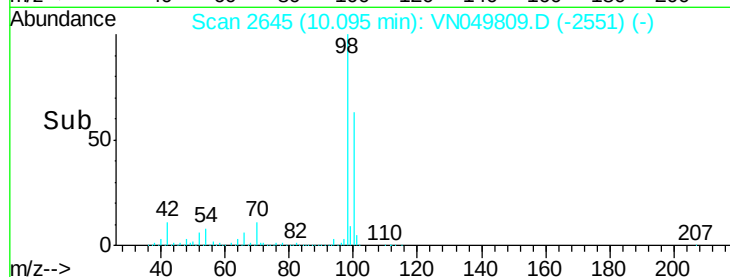
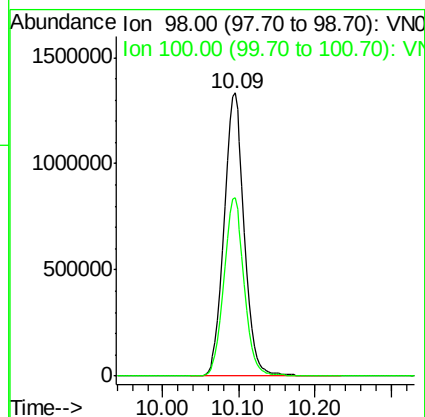
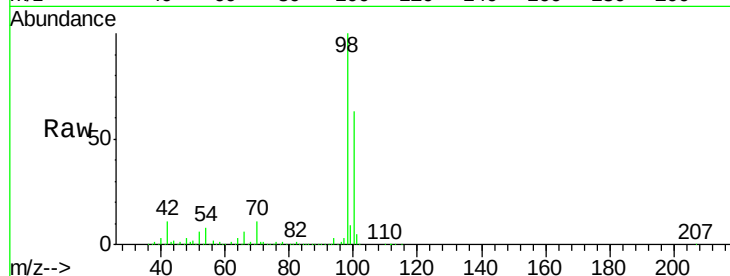
PB111069ZHE#12

Tot Ion: 98 Resp: 2472518

Ion Ratio Lower Upper

98 100

100 63.3 51.7 77.5



#55

1,1,2-Trichloroethane

Concen: Below Cal

RT: 10.57 min Scan# 2794

Delta R.T. 0.01 min

Lab File: VN049809.D

Acq: 13 Jul 2018 20:29

Tgt Ion: 97 Resp: 2613

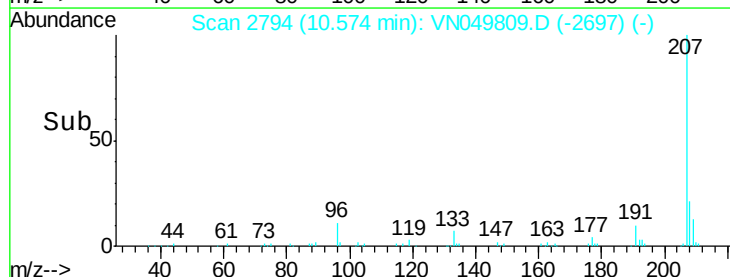
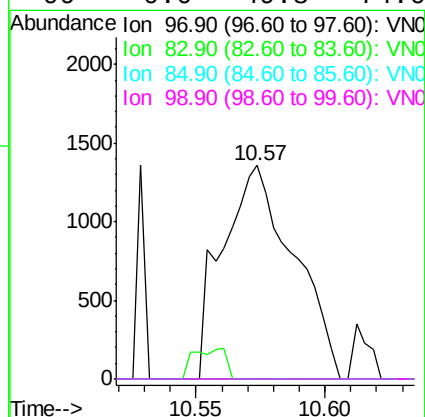
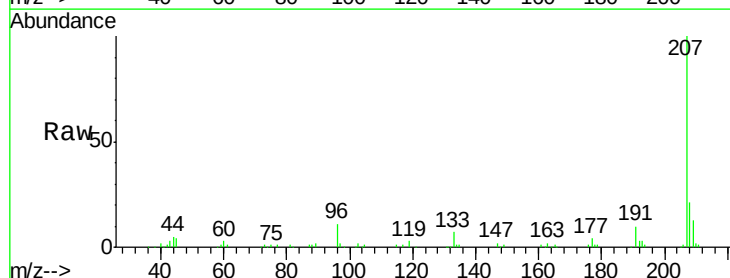
Ion Ratio Lower Upper

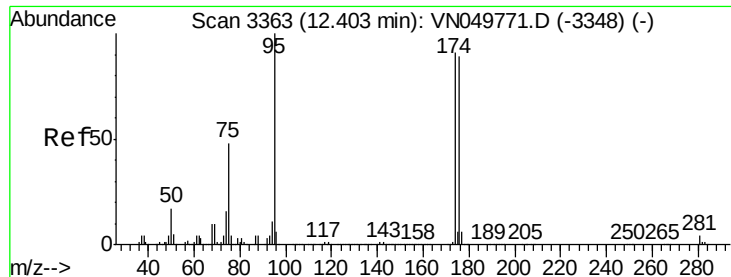
97 100

83 0.0 69.0 103.6#

85 0.0 44.9 67.3#

99 0.0 49.8 74.6#

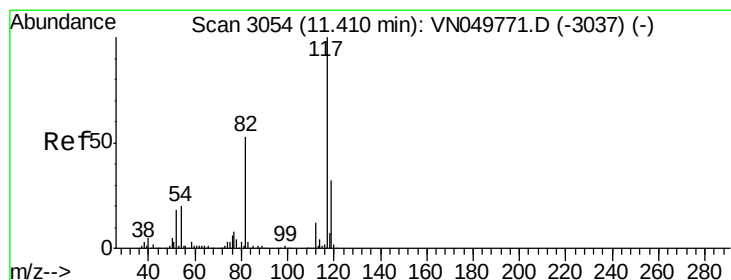
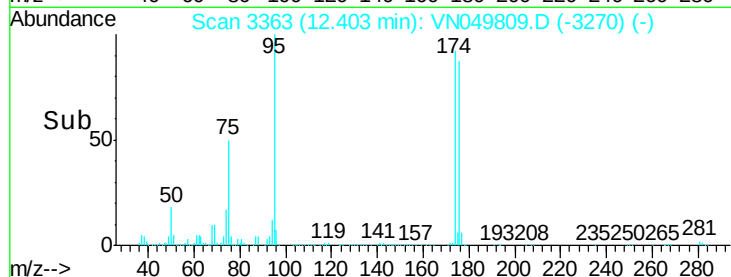
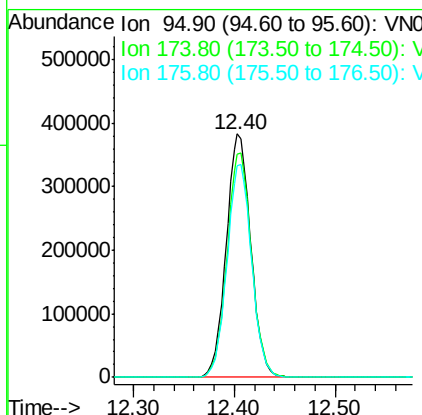
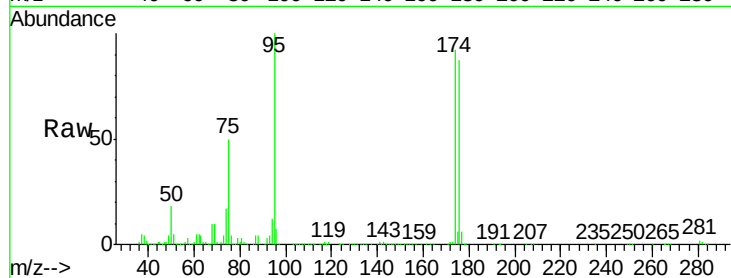




#62
4-Bromofluorobenzene
Concen: 37.72 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.00 min
Lab File: VN049809.D
Acq: 13 Jul 2018 20:29

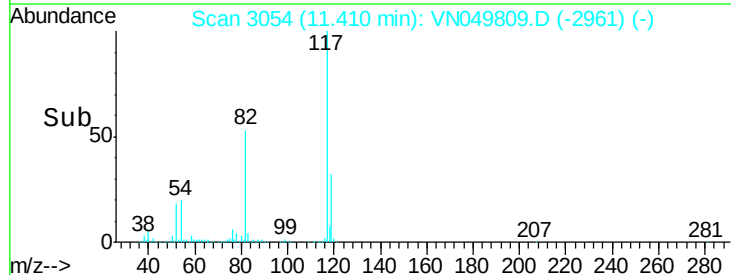
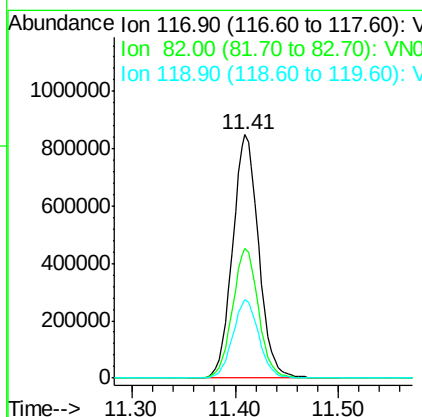
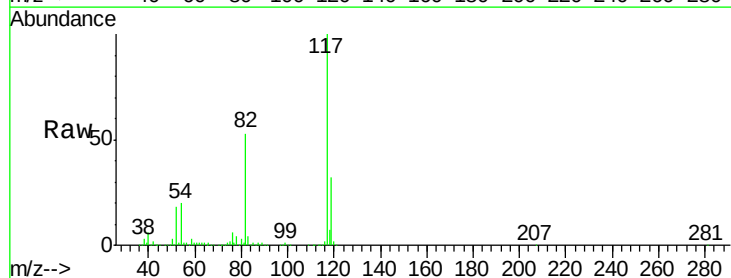
Instrument :
MSVOA_N
ClientSampleId :
PB111069ZHE#12

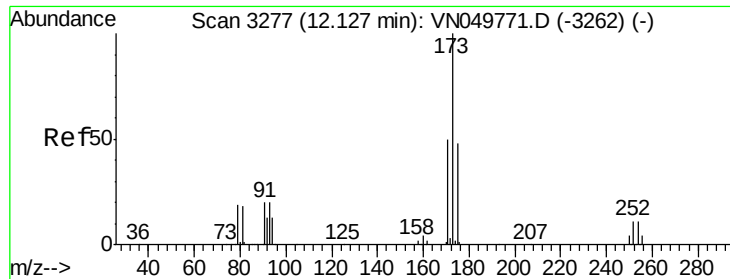
Tot Ion: 95 Resp: 650022
Ion Ratio Lower Upper
95 100
174 92.5 0.0 179.6
176 87.5 0.0 174.0



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN049809.D
Acq: 13 Jul 2018 20:29

Tgt Ion: 117 Resp: 1491344
Ion Ratio Lower Upper
117 100
82 53.3 41.9 62.9
119 32.0 25.4 38.2





#71

Bromoform

Concen: 0.53 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.28 min

Lab File: VN049809.D

Acq: 13 Jul 2018 20:29

Instrument :

MSVOA_N

ClientSampleId :

PB111069ZHE#12

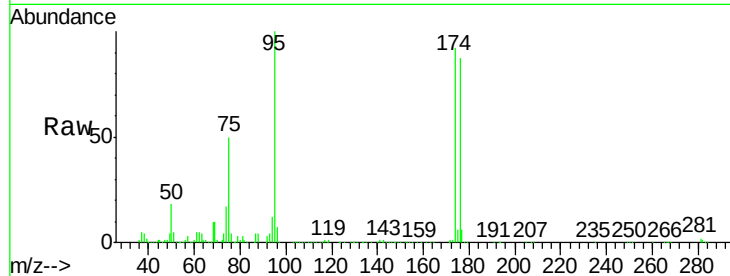
Tot Ion:173 Resp: 5260

Ion Ratio Lower Upper

173 100

175 645.4 24.6 73.8#

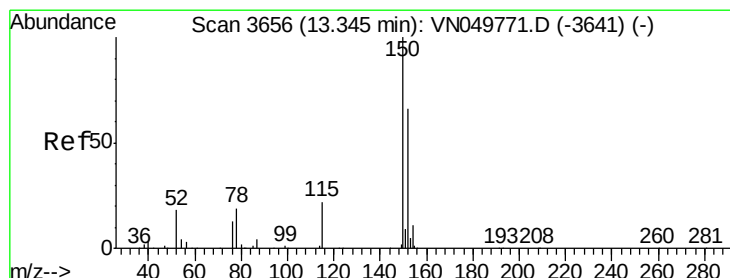
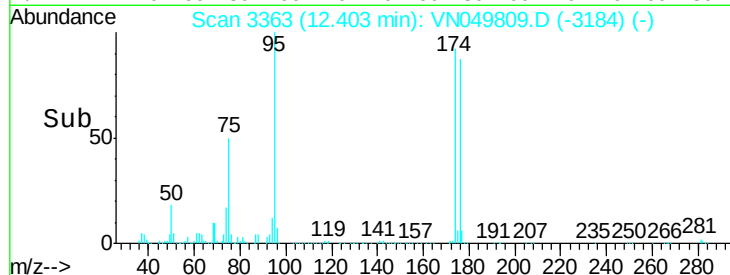
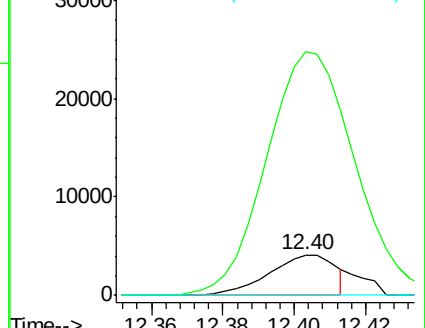
254 0.0 0.2 0.2#



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: VN049809.D

Acq: 13 Jul 2018 20:29

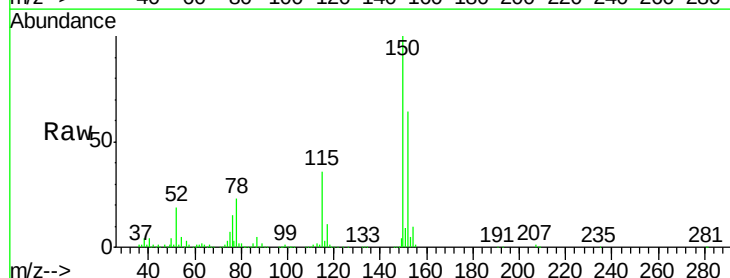
Tgt Ion:152 Resp: 516897

Ion Ratio Lower Upper

152 100

115 56.2 28.1 84.2

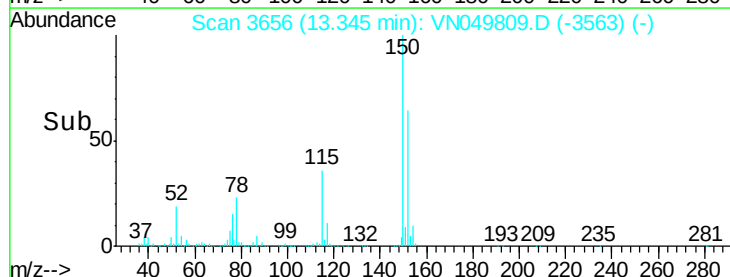
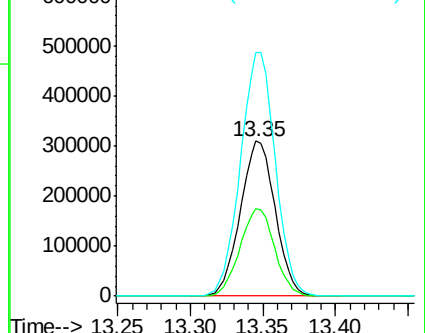
150 157.2 0.0 347.6

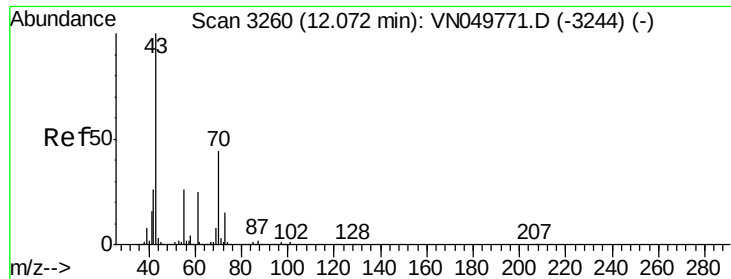


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 0.28 ug/l

RT: 12.04 min Scan# 3251

Delta R.T. -0.03 min

Lab File: VN049809.D

Acq: 13 Jul 2018 20:29

Instrument :

MSVOA_N

ClientSampleId :

PB111069ZHE#12

Tot Ion: 43 Resp: 3158

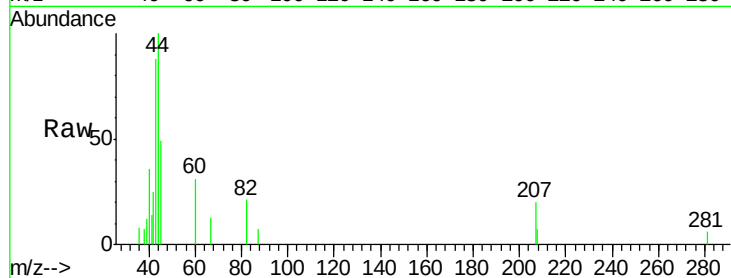
Ion Ratio Lower Upper

43 100

70 0.0 34.8 52.2#

55 2.2 20.9 31.3#

61 0.0 19.9 29.9#

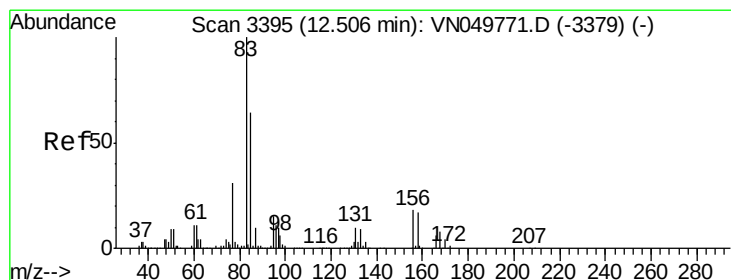
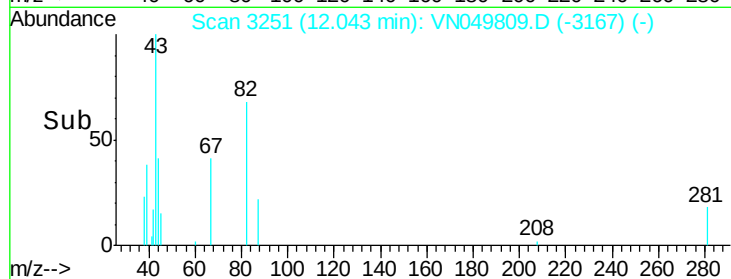
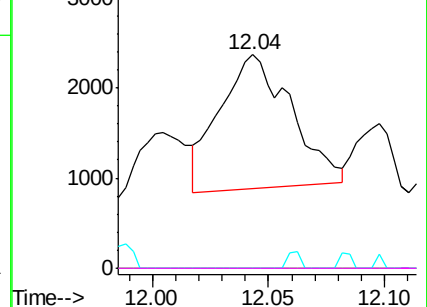


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 12.43 min Scan# 3372

Delta R.T. -0.07 min

Lab File: VN049809.D

Acq: 13 Jul 2018 20:29

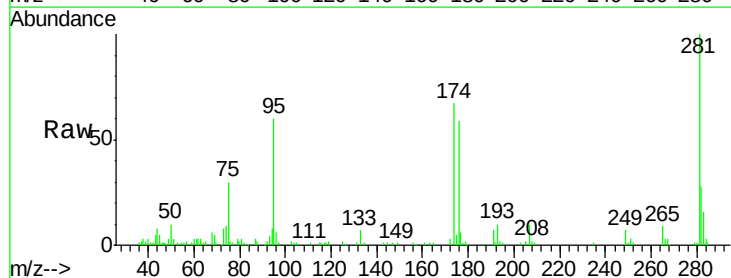
Tgt Ion: 83 Resp: 61

Ion Ratio Lower Upper

83 100

131 0.0 5.2 15.6#

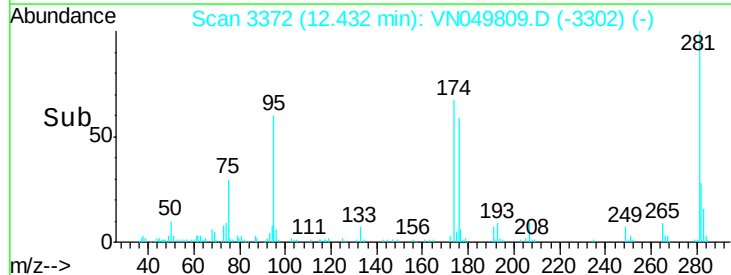
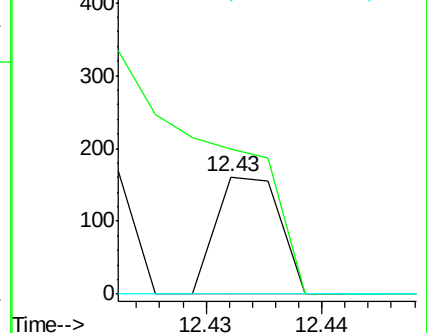
85 0.0 32.5 97.4#

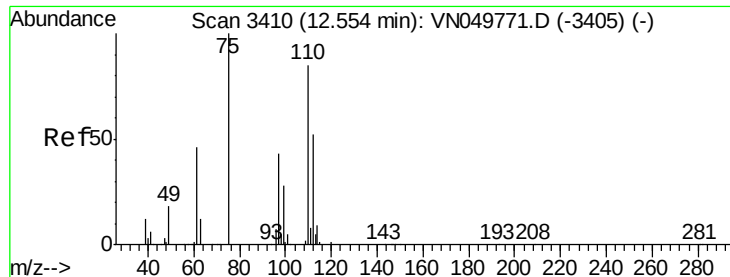


Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 130.80 (130.50 to 131.50): VN0

Ion 84.90 (84.60 to 85.60): VN0





#76

1,2,3-Trichloropropane

Concen: 34.81 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN049809.D

Acq: 13 Jul 2018 20:29

Instrument :

MSVOA_N

ClientSampleId :

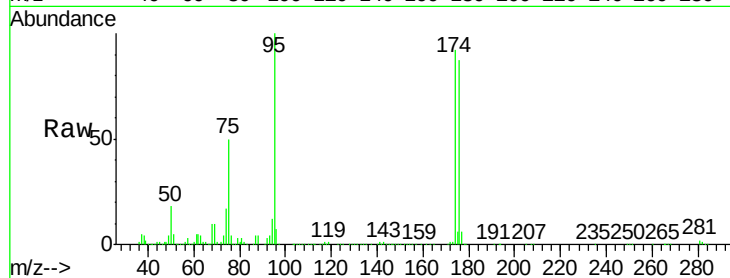
PB111069ZHE#12

Tot Ion: 75 Resp: 319657

Ion Ratio Lower Upper

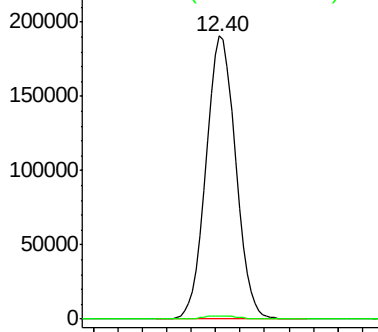
75 100

77 1.4 0.0 0.0#

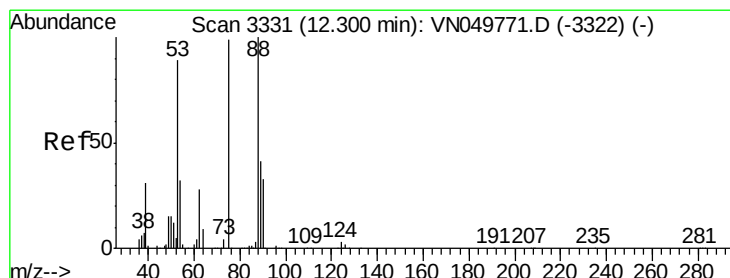
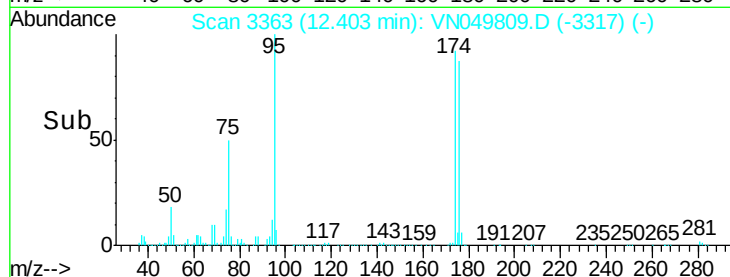


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



Time--> 12.30 12.40 12.50



#81

trans-1,4-Dichloro-2-butene

Concen: 112.42 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN049809.D

Acq: 13 Jul 2018 20:29

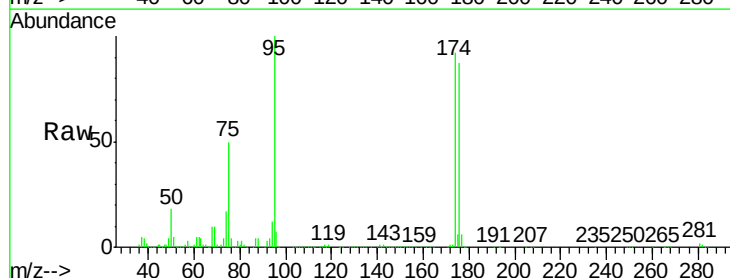
Tgt Ion: 75 Resp: 319657

Ion Ratio Lower Upper

75 100

53 0.1 73.9 110.9#

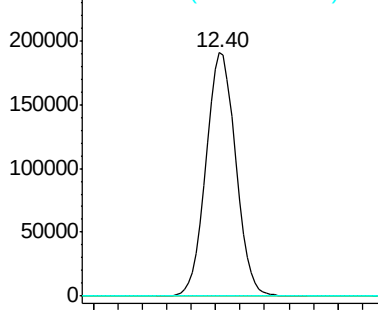
89 0.1 35.9 53.9#



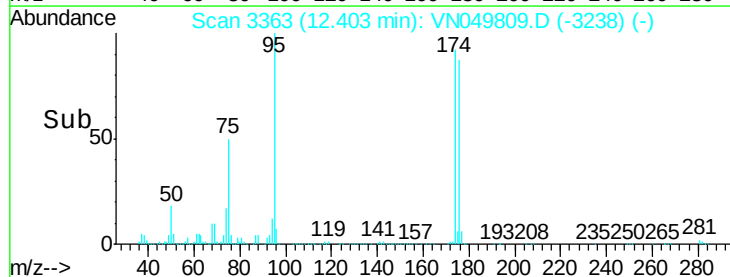
Abundance Ion 74.90 (74.60 to 75.60): VN0

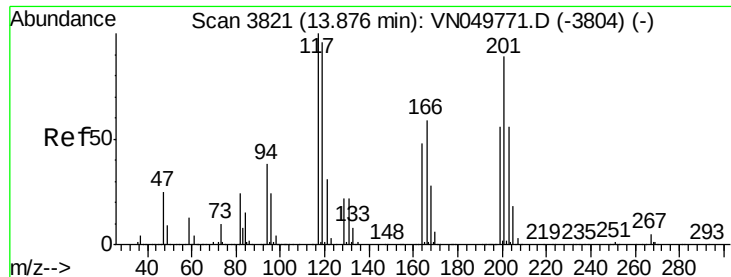
Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



Time--> 12.30 12.40 12.50





#90

Hexachloroethane

Concen: Below Cal

RT: 13.89 min Scan# 3826

Delta R.T. 0.02 min

Lab File: VN049809.D

Acq: 13 Jul 2018 20:29

Instrument :

MSVOA_N

ClientSampleId :

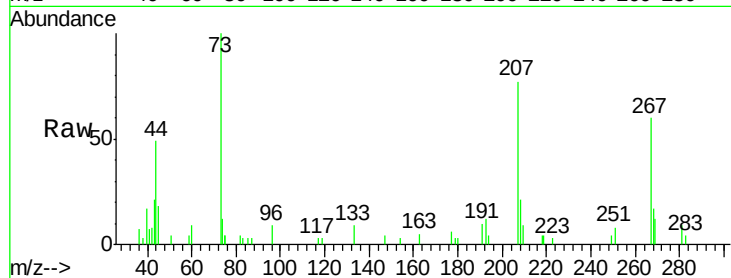
PB111069ZHE#12

Tot Ion:117 Resp: 69

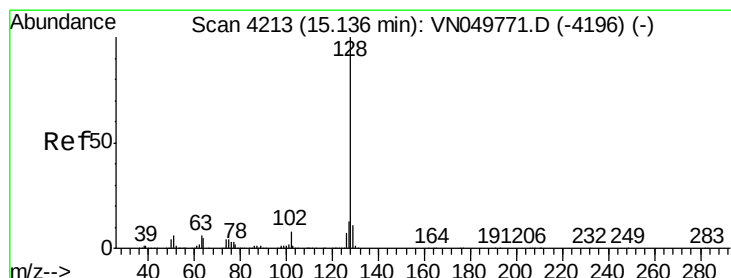
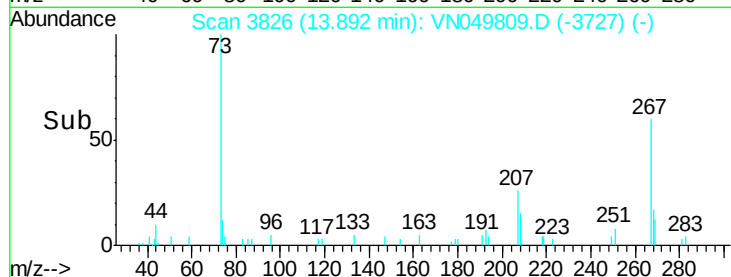
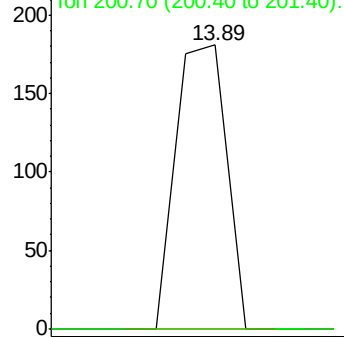
Ion Ratio Lower Upper

117 100

201 0.0 45.3 135.8#



Abundance Ion 116.80 (116.50 to 117.50): V



#95

Naphthalene

Concen: 4.06 ug/l

RT: 15.13 min Scan# 4212

Delta R.T. -0.00 min

Lab File: VN049809.D

Acq: 13 Jul 2018 20:29

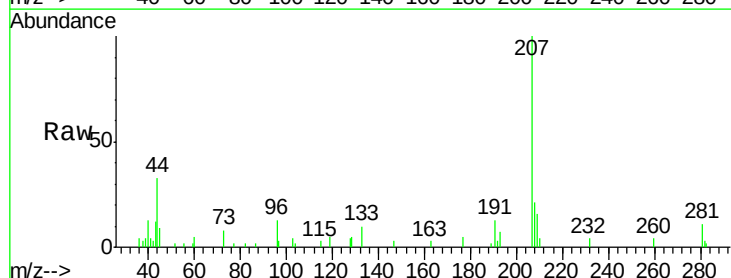
Tgt Ion:128 Resp: 808

Ion Ratio Lower Upper

128 100

127 0.0 10.4 15.6#

129 0.0 8.6 13.0#



Abundance Ion 128.00 (127.70 to 128.70): V

