

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071918\
 Data File : VN049921.D
 Acq On : 19 Jul 2018 17:16
 Operator : MD\SY
 Sample : PB111251ZHE#08
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB111251ZHE#08

Quant Time: Jul 20 01:30:08 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N071818W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 19 01:58:39 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	535434	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	914456	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	770300	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	289511	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	391094	53.14	ug/l	0.00
Spiked Amount			Recovery	=	106.28%	
35) Dibromofluoromethane	7.59	113	345845	45.05	ug/l	0.00
Spiked Amount			Recovery	=	90.10%	
50) Toluene-d8	10.09	98	1221507	43.67	ug/l	0.00
Spiked Amount			Recovery	=	87.34%	
62) 4-Bromofluorobenzene	12.40	95	339246	35.22	ug/l	0.00
Spiked Amount			Recovery	=	70.44%	

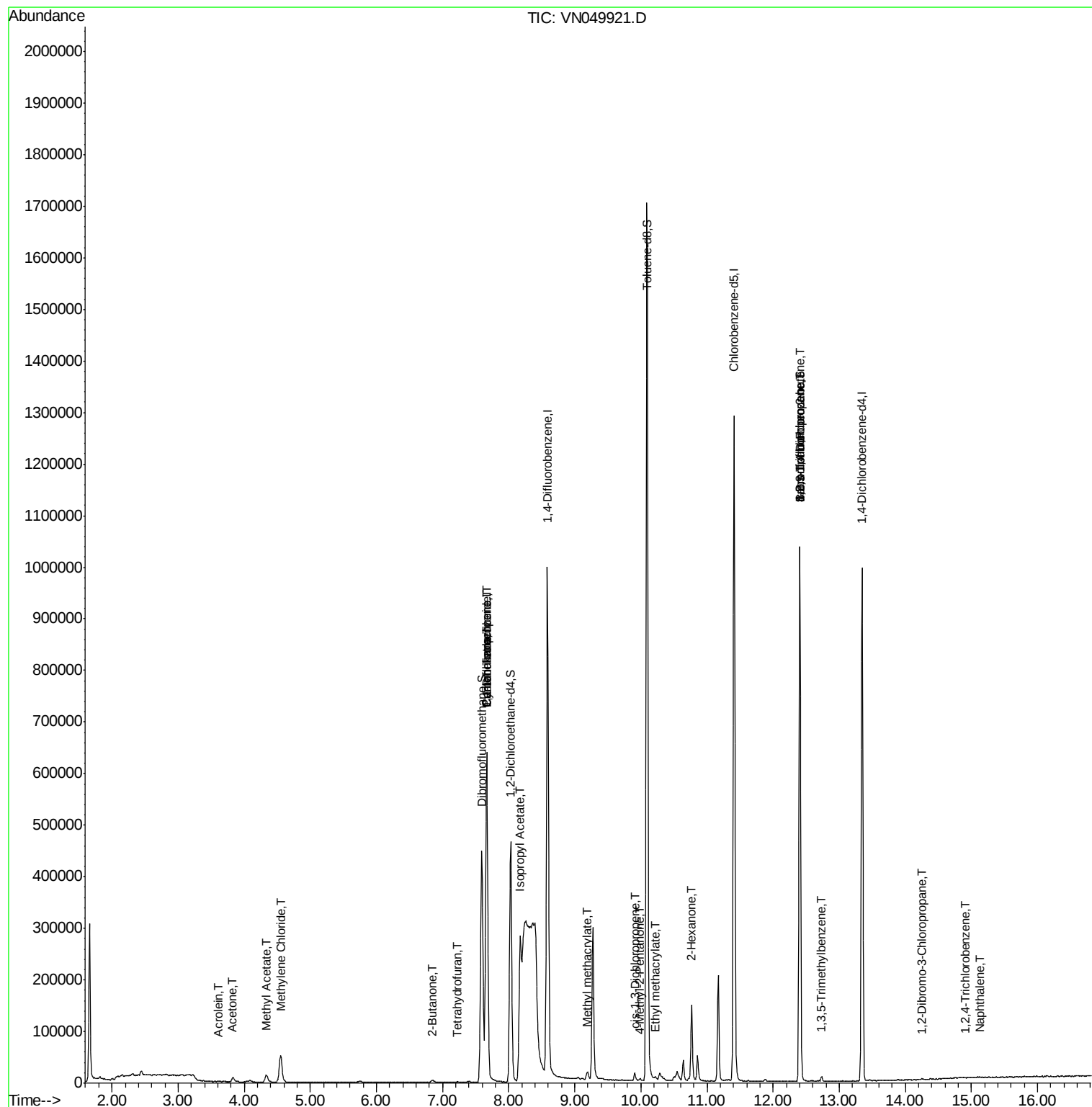
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.56	94	234	Below Cal	#	12
13) Acrolein	3.62	56	94	0.28	ug/l #	15
16) Acetone	3.83	43	14924	7.83	ug/l	98
18) Methyl Acetate	4.34	43	28101	3.93	ug/l #	72
20) Methylene Chloride	4.55	84	40177	5.54	ug/l	96
25) 2-Butanone	6.85	43	2186	0.80	ug/l	100
29) Tetrahydrofuran	7.22	42	621	0.36	ug/l #	41
31) Cyclohexane	7.66	56	10610	1.08	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	37806	3.72	ug/l #	48
38) Carbon Tetrachloride	7.67	117	49062	4.50	ug/l #	17
43) Isopropyl Acetate	8.17	43	334012	27.38	ug/l #	91
48) Methyl methacrylate	9.18	41	8085	1.32	ug/l #	22
51) 4-Methyl-2-Pentanone	9.98	43	1911	0.28	ug/l	94
54) cis-1,3-Dichloropropene	9.91	75	2421	0.21	ug/l #	75
56) Ethyl methacrylate	10.23	69	2380	2.38	ug/l #	83
59) 2-Hexanone	10.77	43	20855	4.55	ug/l #	59
71) Bromoform	12.40	173	3050	0.57	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	166921	30.74	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	4198	0.24	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.40	75	166921	96.11	ug/l #	13
92) 1,2-Dibromo-3-Chloropropan	14.26	75	265	0.26	ug/l #	1
93) 1,2,4-Trichlorobenzene	14.91	180	64	3.49	ug/l #	51
95) Naphthalene	15.14	128	218	4.51	ug/l #	69

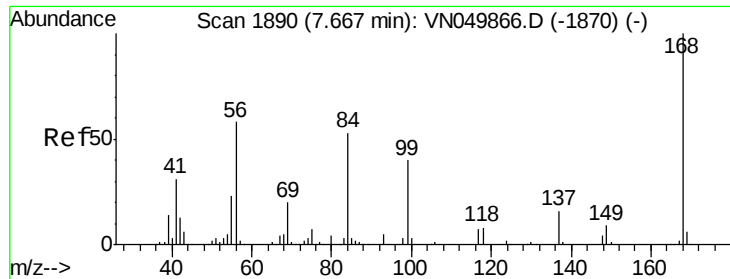
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jul 20 01:30:08 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N071818W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 19 01:58:39 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: VN049921.D

Acq: 19 Jul 2018 17:16

Instrument :

MSVOA_N

ClientSampleId :

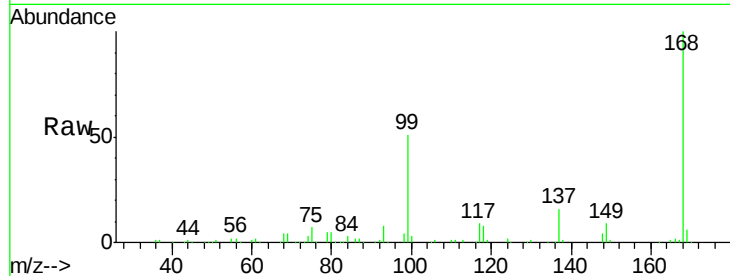
PB111251ZHE#08

Tot Ion:168 Resp: 535434

Ion Ratio Lower Upper

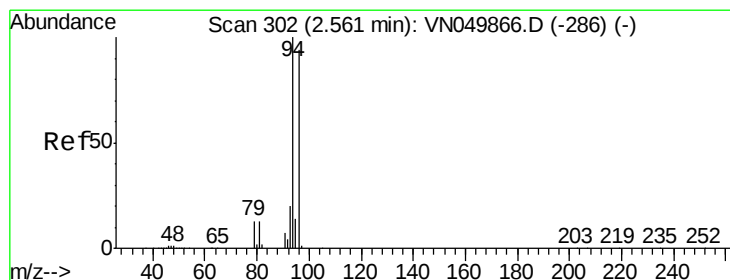
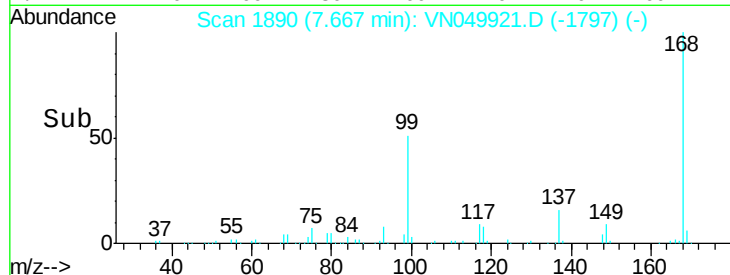
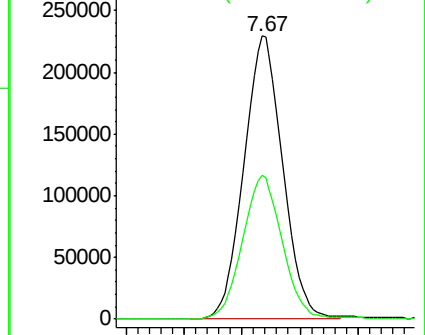
168 100

99 50.9 40.6 61.0



Abundance Ion 167.90 (167.60 to 168.60): VN049921.D (-1797) (-)

Ion 98.90 (98.60 to 99.60): VN049921.D (-1797) (-)



#5

Bromomethane

Concen: Below Cal

RT: 2.56 min Scan# 302

Delta R.T. 0.00 min

Lab File: VN049921.D

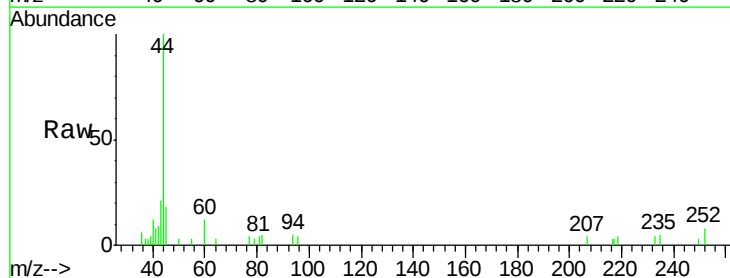
Acq: 19 Jul 2018 17:16

Tgt Ion: 94 Resp: 234

Ion Ratio Lower Upper

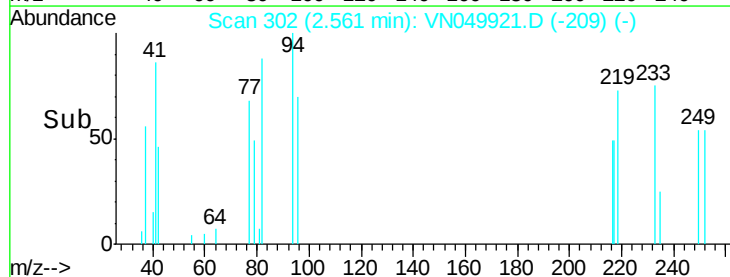
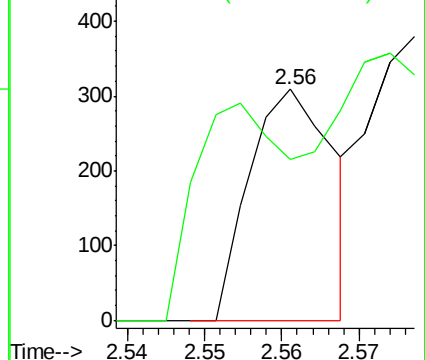
94 100

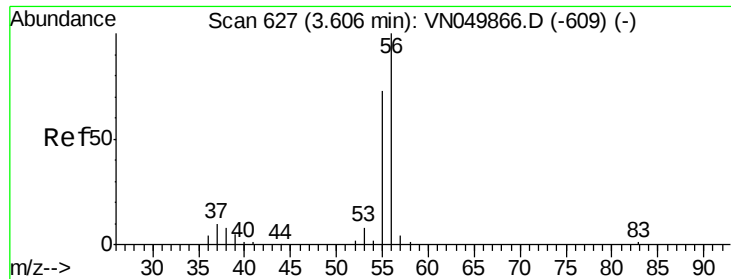
96 9.7 75.7 113.5#



Abundance Ion 93.90 (93.60 to 94.60): VN049921.D (-209) (-)

Ion 95.90 (95.60 to 96.60): VN049921.D (-209) (-)





#13

Acrolein

Concen: 0.28 ug/l

RT: 3.62 min Scan# 630

Delta R.T. 0.01 min

Lab File: VN049921.D

Acq: 19 Jul 2018 17:16

Instrument :

MSVOA_N

ClientSampleId :

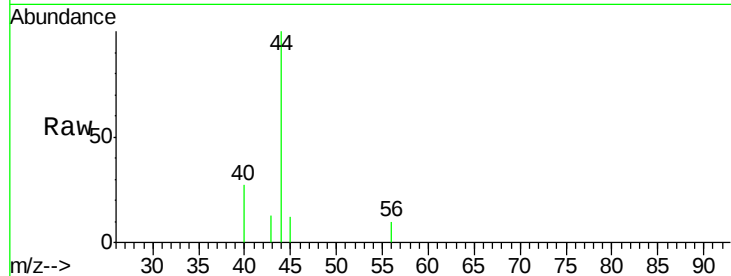
PB111251ZHE#08

Tot Ion: 56 Resp: 94

Ion Ratio Lower Upper

56 100

55 0.0 55.8 83.8#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

3.62

200

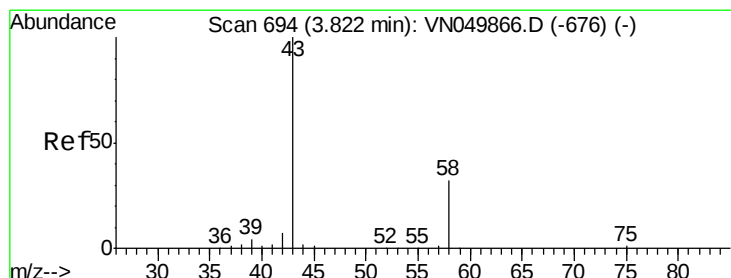
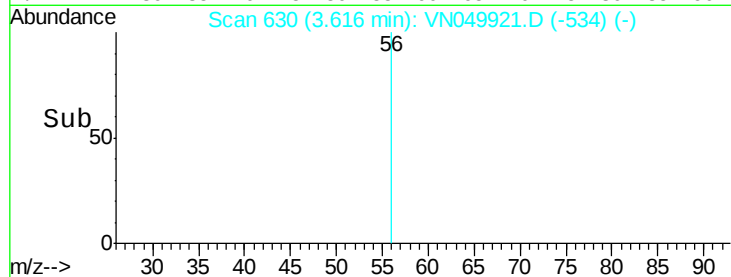
150

100

50

0

Time-->



#16

Acetone

Concen: 7.83 ug/l

RT: 3.83 min Scan# 696

Delta R.T. 0.01 min

Lab File: VN049921.D

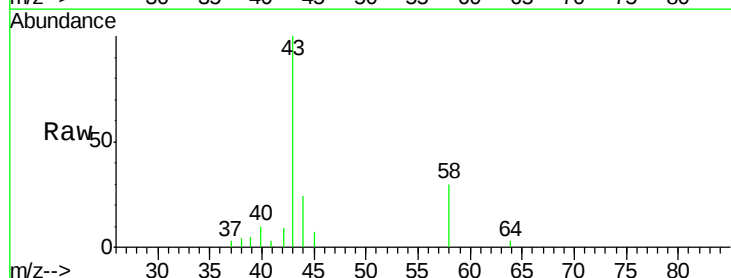
Acq: 19 Jul 2018 17:16

Tgt Ion: 43 Resp: 14924

Ion Ratio Lower Upper

43 100

58 31.3 25.9 38.9



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

3.83

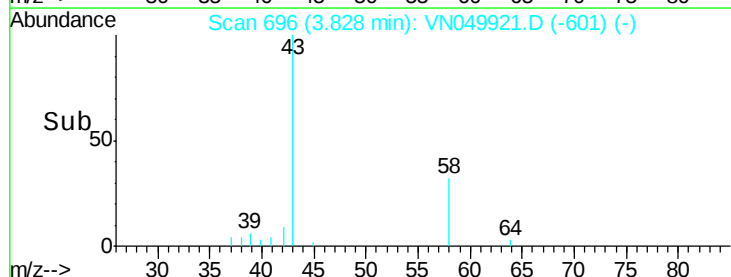
6000

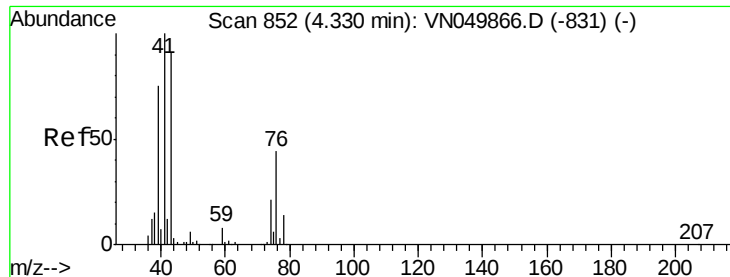
4000

2000

0

Time-->

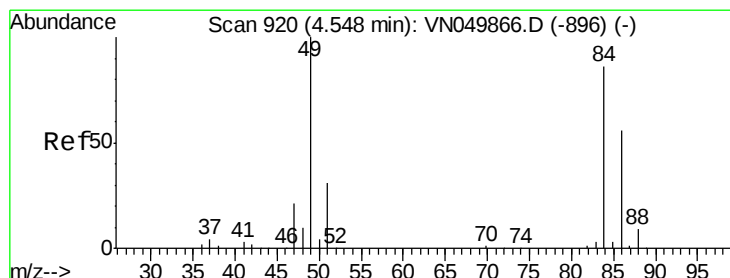
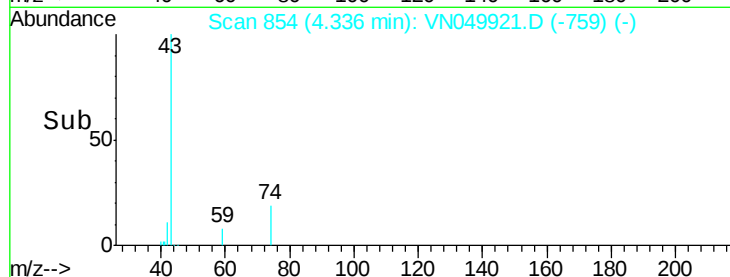
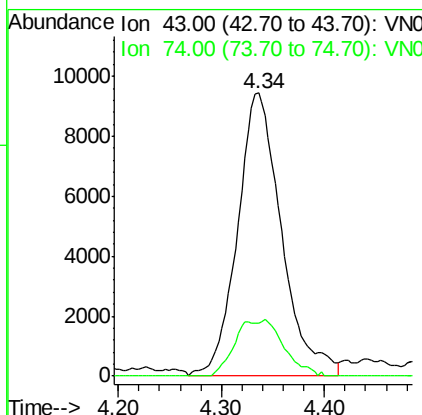
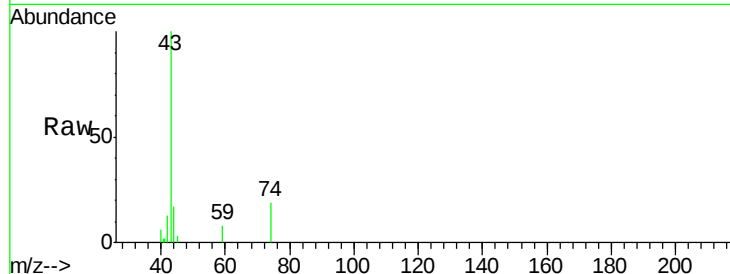




#18
Methvl Acetate
Concen: 3.93 ug/l
RT: 4.34 min Scan# 854
Delta R.T. 0.01 min
Lab File: VN049921.D
Acq: 19 Jul 2018 17:16

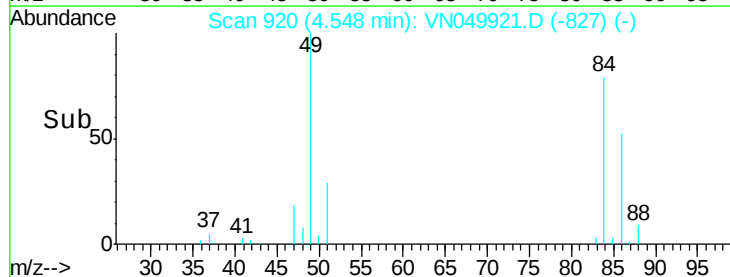
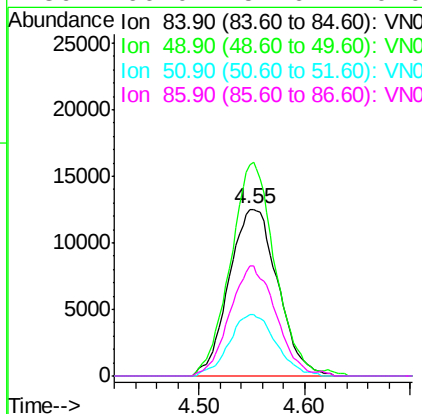
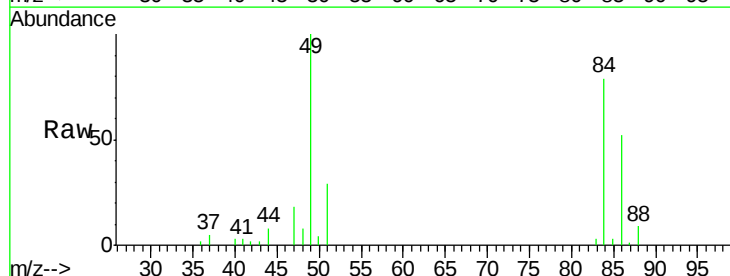
Instrument :
MSVOA_N
ClientSampleId :
PB111251ZHE#08

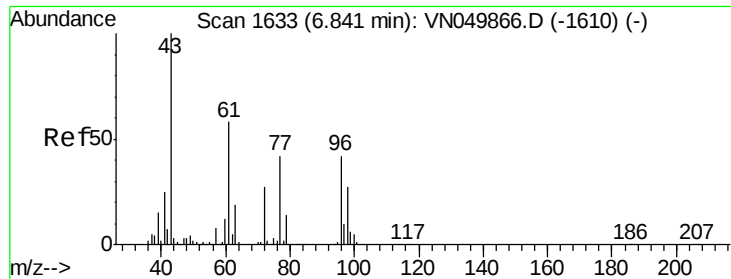
Tot Ion: 43 Resp: 28101
Ion Ratio Lower Upper
43 100
74 11.0 19.8 29.8#



#20
Methylene Chloride
Concen: 5.54 ug/l
RT: 4.55 min Scan# 920
Delta R.T. -0.00 min
Lab File: VN049921.D
Acq: 19 Jul 2018 17:16

Tgt Ion: 84 Resp: 40177
Ion Ratio Lower Upper
84 100
49 127.2 95.4 143.2
51 36.7 28.4 42.6
86 66.0 52.6 79.0





#25

2-Butanone

Concen: 0.80 ug/l

RT: 6.85 min Scan# 1636

Delta R.T. 0.01 min

Lab File: VN049921.D

Acq: 19 Jul 2018 17:16

Instrument :

MSVOA_N

ClientSampleId :

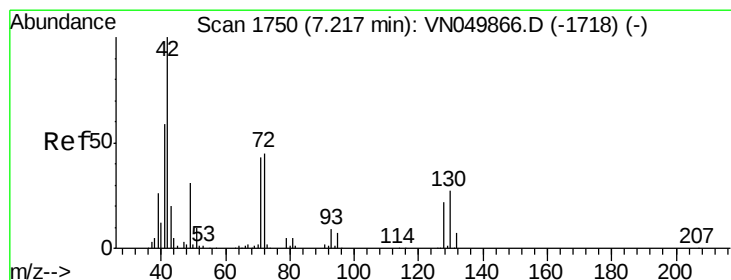
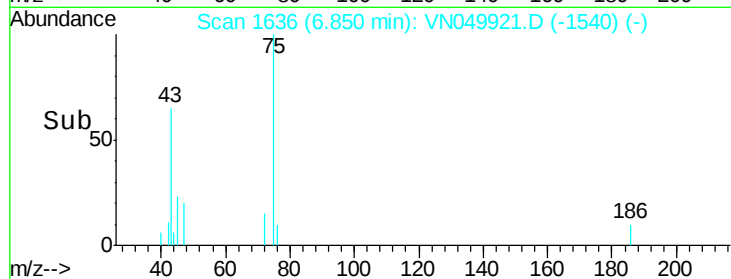
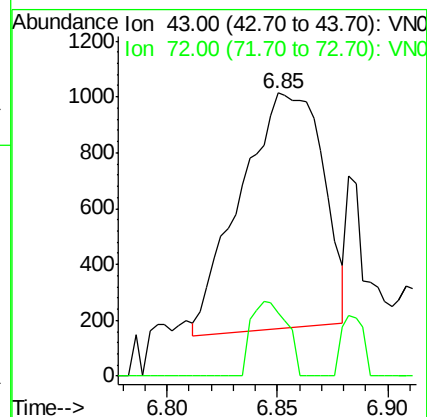
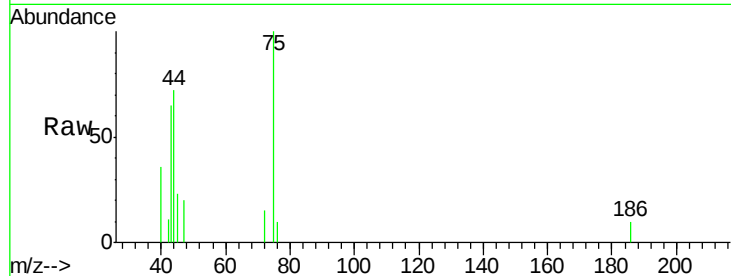
PB111251ZHE#08

Tot Ion: 43 Resp: 2186

Ion Ratio Lower Upper

43 100

72 27.6 22.1 33.1



#29

Tetrahydrofuran

Concen: 0.36 ug/l

RT: 7.22 min Scan# 1752

Delta R.T. 0.01 min

Lab File: VN049921.D

Acq: 19 Jul 2018 17:16

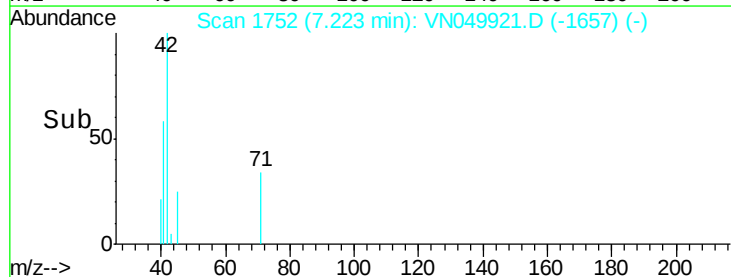
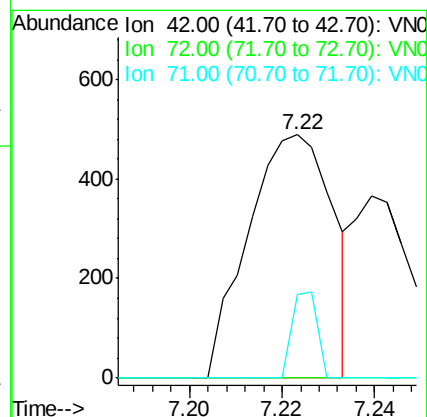
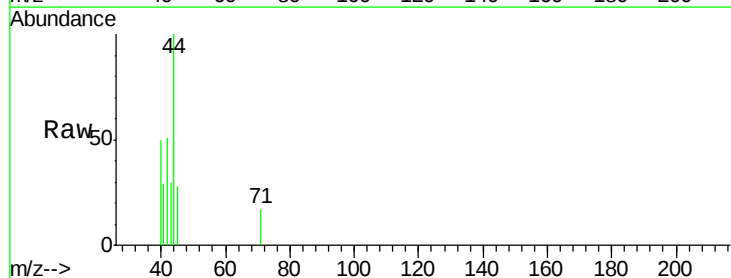
Tgt Ion: 42 Resp: 621

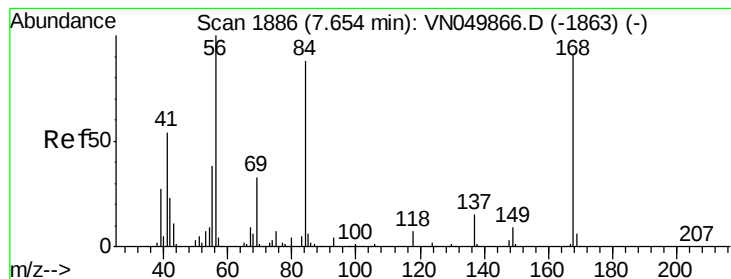
Ion Ratio Lower Upper

42 100

72 0.0 35.6 53.4#

71 10.6 34.0 51.0#





#31

Cyclohexane

Concen: 1.08 ug/l

RT: 7.66 min Scan# 1889

Delta R.T. 0.01 min

Lab File: VN049921.D

Acq: 19 Jul 2018 17:16

Instrument :

MSVOA_N

ClientSampleId :

PB111251ZHE#08

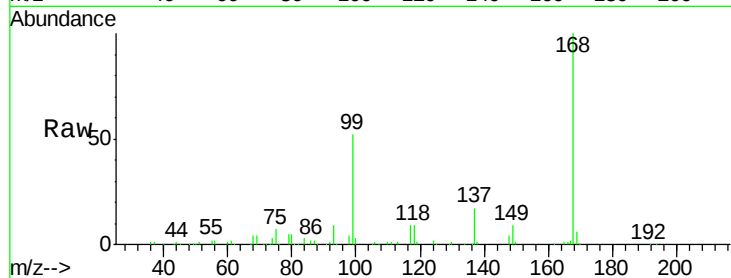
Tot Ion: 56 Resp: 10610

Ion Ratio Lower Upper

56 100

69 183.5 26.6 40.0#

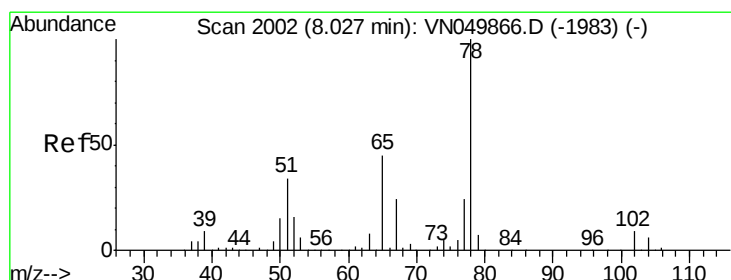
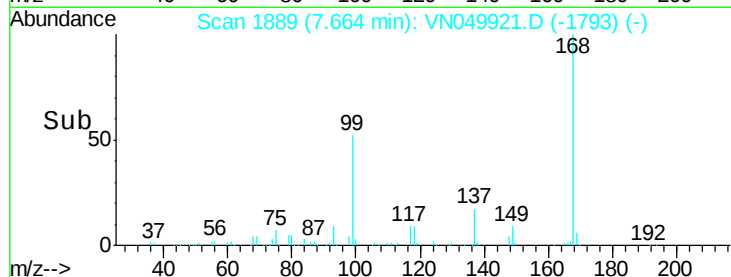
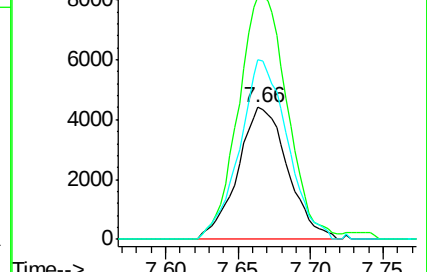
84 136.1 69.0 103.6#



Abundance Ion 56.00 (55.70 to 56.70): VN049866.D (-1863) (-)

Ion 69.00 (68.70 to 69.70): VN049866.D (-1863) (-)

Ion 84.00 (83.70 to 84.70): VN049866.D (-1863) (-)



#33

1,2-Dichloroethane-d4

Concen: 53.14 ug/l

RT: 8.03 min Scan# 2003

Delta R.T. 0.00 min

Lab File: VN049921.D

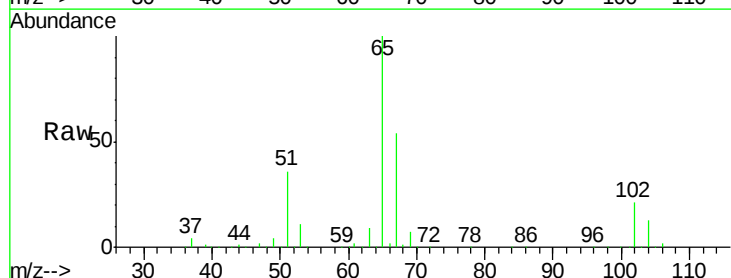
Acq: 19 Jul 2018 17:16

Tgt Ion: 65 Resp: 391094

Ion Ratio Lower Upper

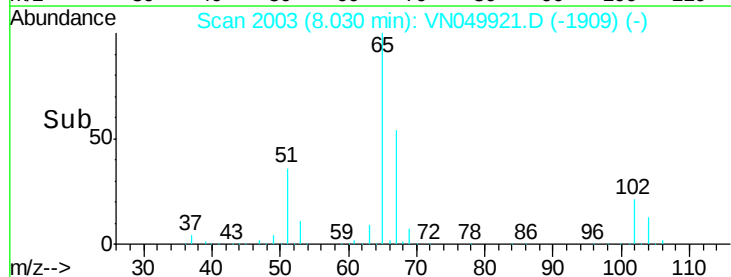
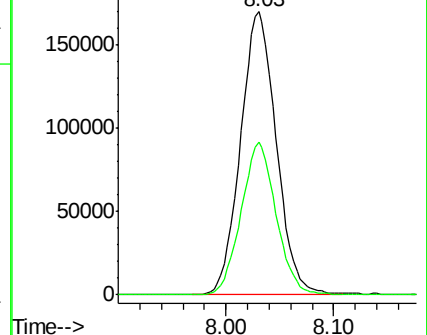
65 100

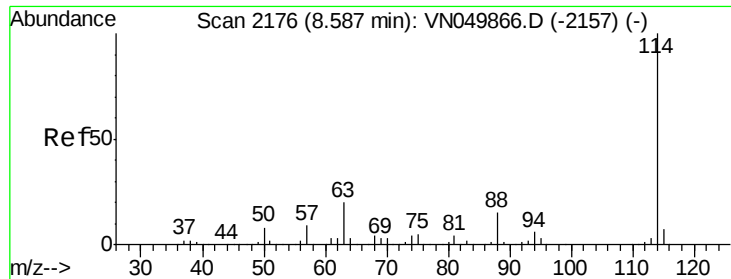
67 52.9 0.0 107.2



Abundance Ion 64.90 (64.60 to 65.60): VN049866.D (-1983) (-)

Ion 66.90 (66.60 to 67.60): VN049866.D (-1983) (-)

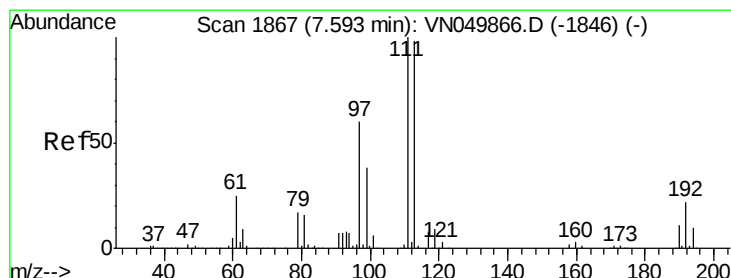
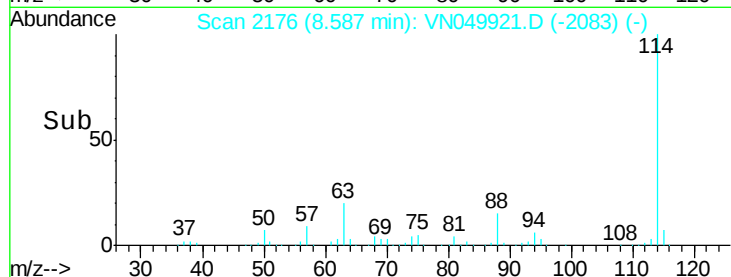
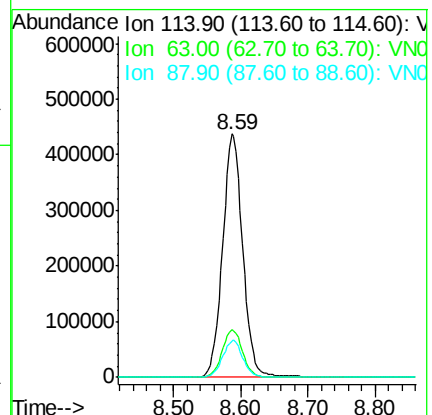
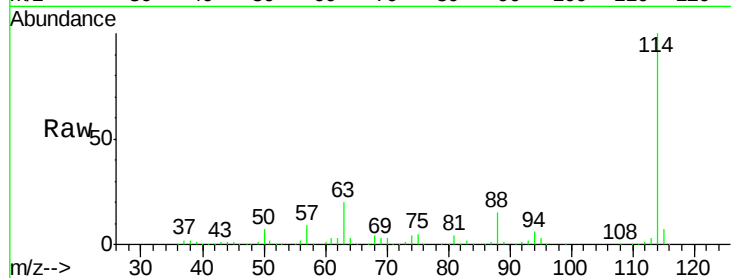




#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2176
 Delta R.T. -0.00 min
 Lab File: VN049921.D
 Acq: 19 Jul 2018 17:16

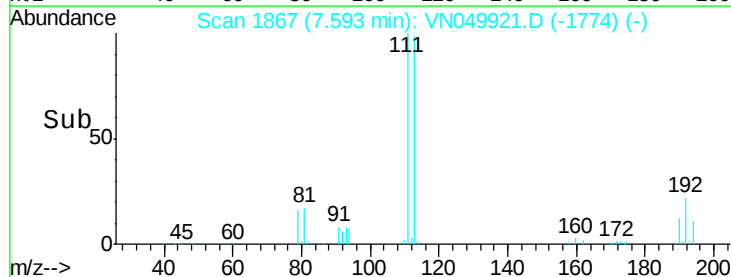
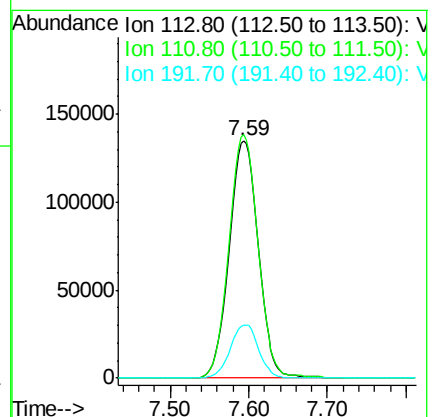
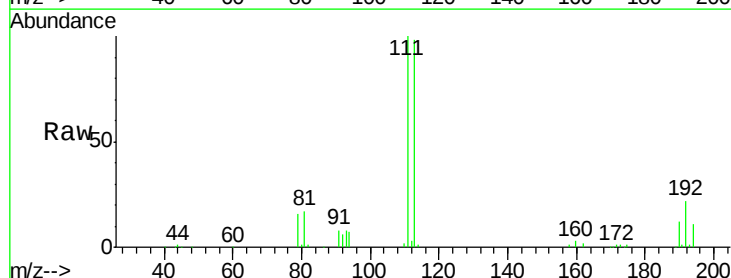
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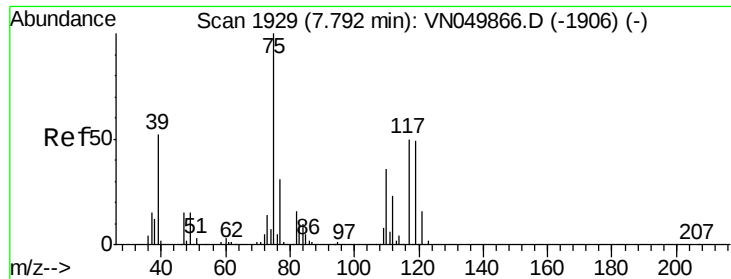
Tot Ion:114 Resp: 914456
 Ion Ratio Lower Upper
 114 100
 63 19.6 0.0 39.8
 88 15.0 0.0 30.6



#35
 Dibromofluoromethane
 Concen: 45.05 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. -0.00 min
 Lab File: VN049921.D
 Acq: 19 Jul 2018 17:16

Tgt Ion:113 Resp: 345845
 Ion Ratio Lower Upper
 113 100
 111 102.3 81.8 122.8
 192 21.8 17.8 26.6

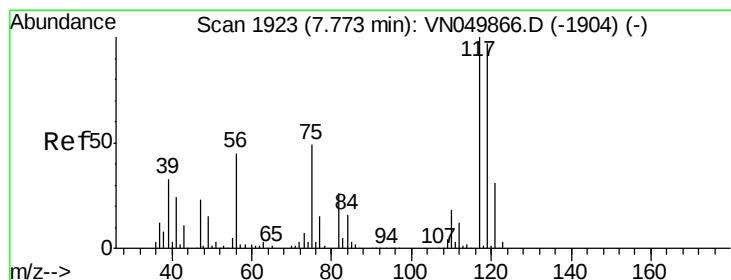
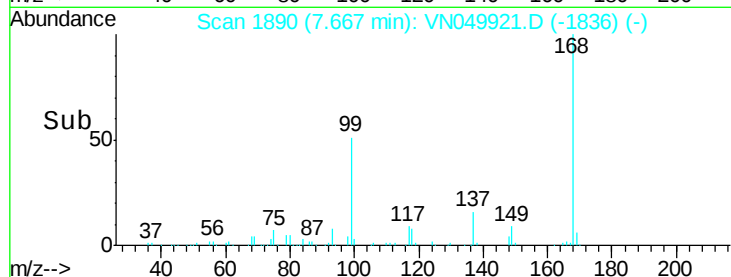
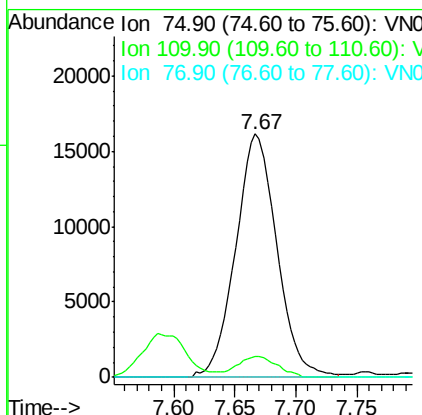
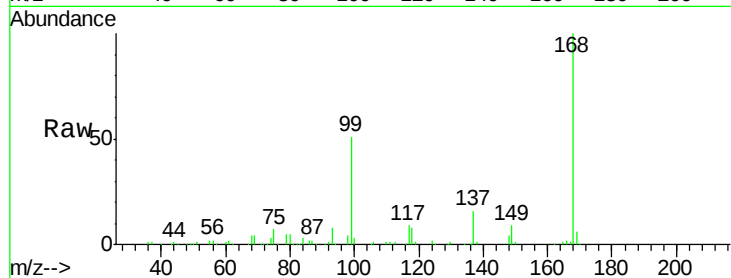




#36
 1,1-Dichloropropene
 Concen: 3.72 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.13 min
 Lab File: VN049921.D
 Acq: 19 Jul 2018 17:16

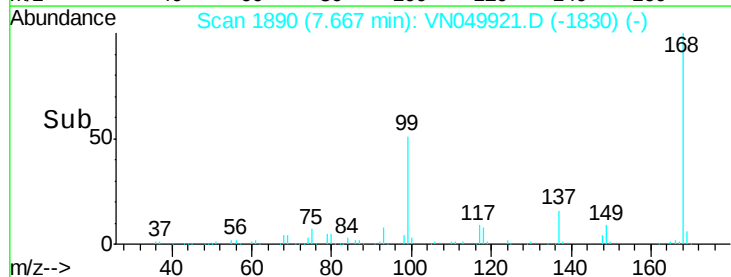
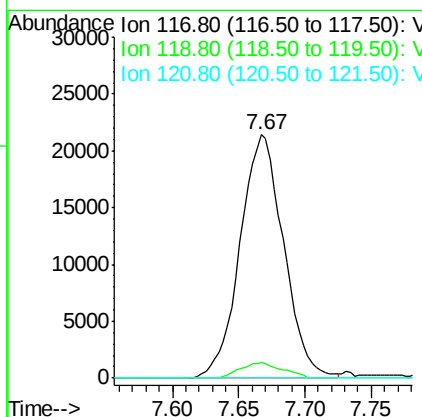
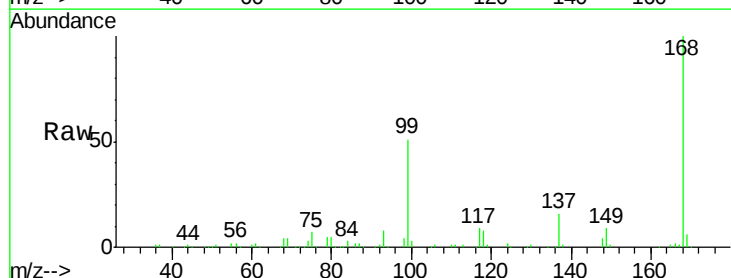
Instrument :
 MSVOA_N
 ClientSampleId :
 PB111251ZHE#08

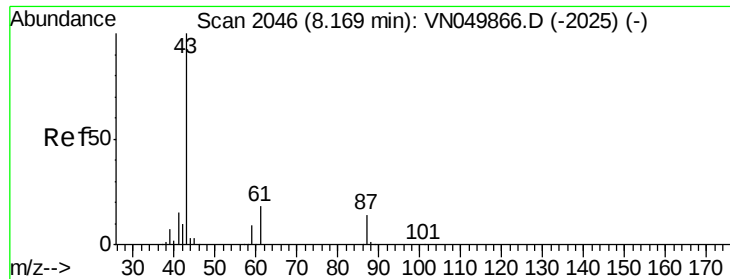
Tot Ion	75	Resp	37806
Ion Ratio	100	Lower	Upper
75	100		
110	8.4	18.1	54.4#
77	0.0	24.9	37.3#



#38
 Carbon Tetrachloride
 Concen: 4.50 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.11 min
 Lab File: VN049921.D
 Acq: 19 Jul 2018 17:16

Tgt Ion	117	Resp	49062
Ion Ratio <td>100</td> <td>Lower</td> <td>Upper</td>	100	Lower	Upper
117	100		
119	6.3	77.2	115.8#
121	0.0	25.0	37.6#



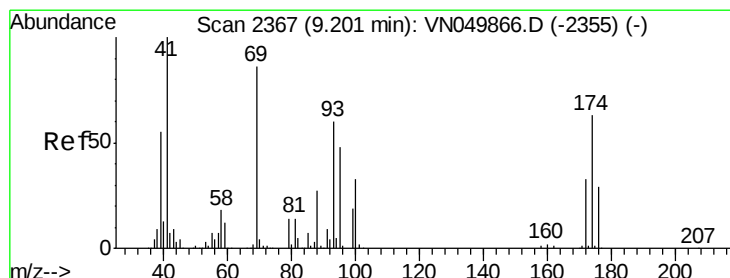
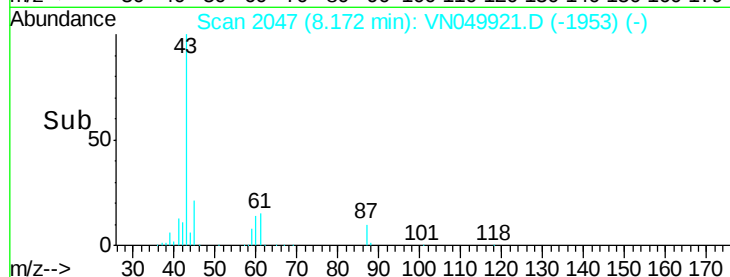
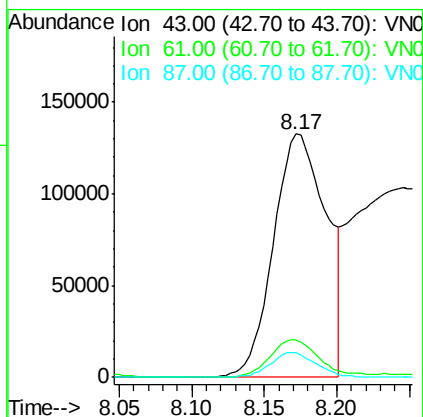
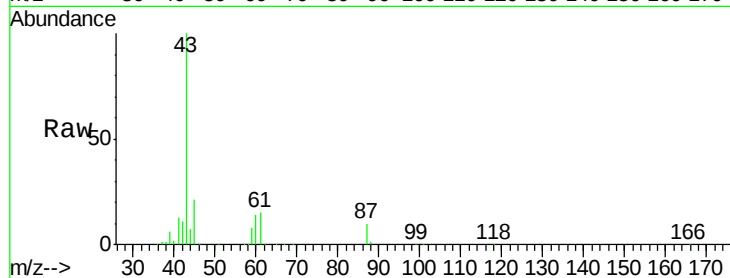


#43

Isopropyl Acetate
 Concen: 27.38 ug/l
 RT: 8.17 min Scan# 2047
 Delta R.T. 0.00 min
 Lab File: VN049921.D
 Acq: 19 Jul 2018 17:16

Instrument :
 MSVOA_N
 ClientSampleId :
 PB111251ZHE#08

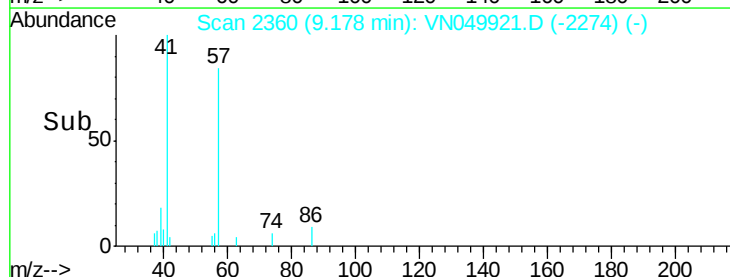
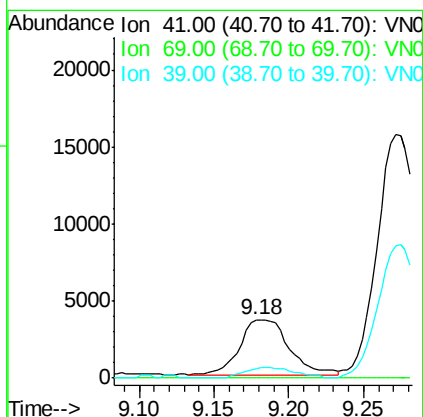
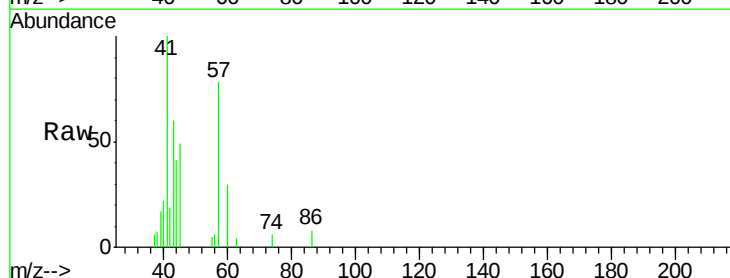
Tot Ion: 43 Resp: 334012
 Ion Ratio Lower Upper
 43 100
 61 14.6 14.9 22.3#
 87 9.0 10.0 15.0#

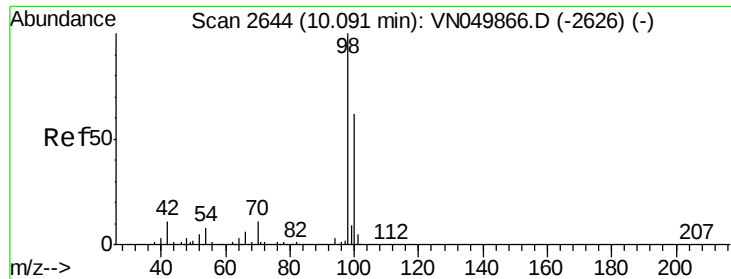


#48

Methyl methacrylate
 Concen: 1.32 ug/l
 RT: 9.18 min Scan# 2360
 Delta R.T. -0.02 min
 Lab File: VN049921.D
 Acq: 19 Jul 2018 17:16

Tgt Ion: 41 Resp: 8085
 Ion Ratio Lower Upper
 41 100
 69 0.0 71.5 107.3#
 39 20.0 44.7 67.1#

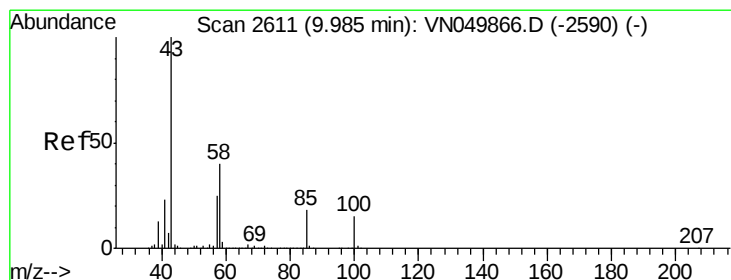
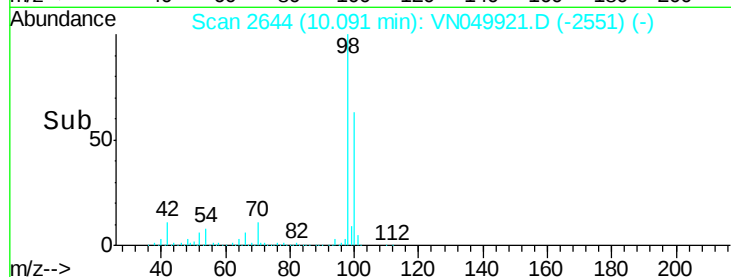
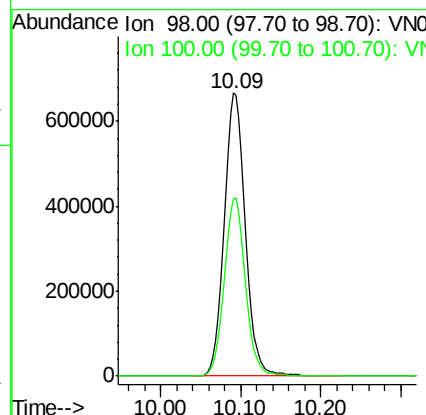
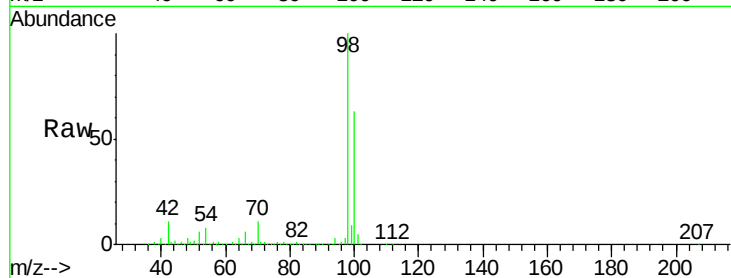




#50
Toluene-d8
Concen: 43.67 ug/l
RT: 10.09 min Scan# 2644
Delta R.T. -0.00 min
Lab File: VN049921.D
Acq: 19 Jul 2018 17:16

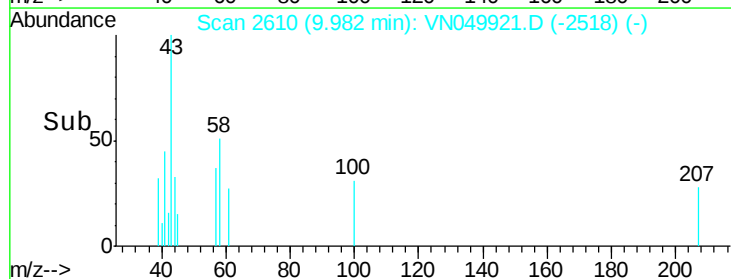
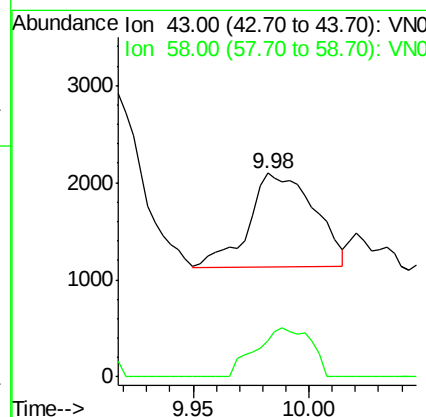
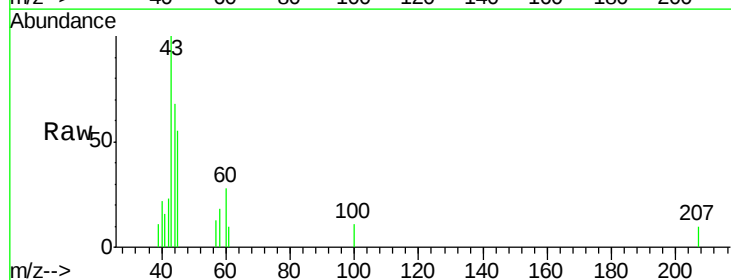
Instrument :
MSVOA_N
ClientSampleId :
PB111251ZHE#08

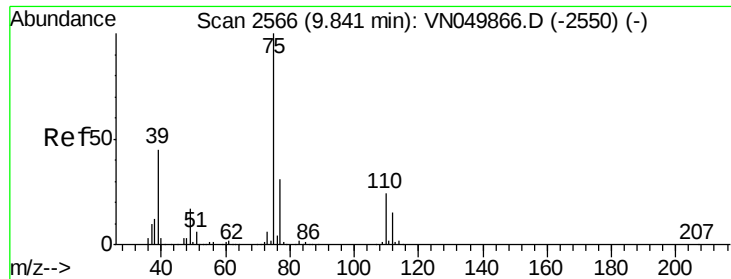
Tot Ion: 98 Resp: 1221507
Ion Ratio Lower Upper
98 100
100 63.0 51.7 77.5



#51
4-Methyl-2-Pentanone
Concen: 0.28 ug/l
RT: 9.98 min Scan# 2610
Delta R.T. -0.00 min
Lab File: VN049921.D
Acq: 19 Jul 2018 17:16

Tgt Ion: 43 Resp: 1911
Ion Ratio Lower Upper
43 100
58 43.5 31.8 47.8

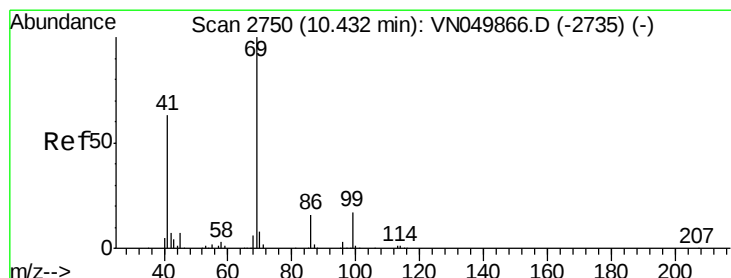
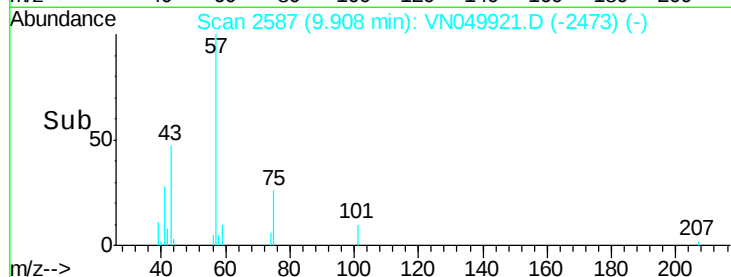
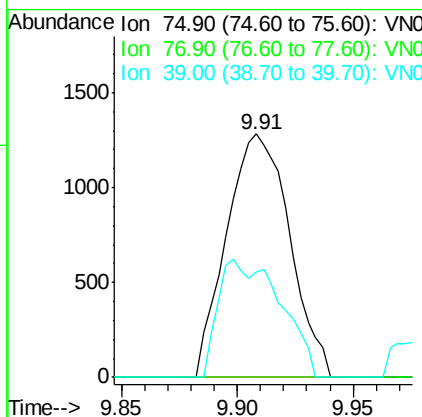
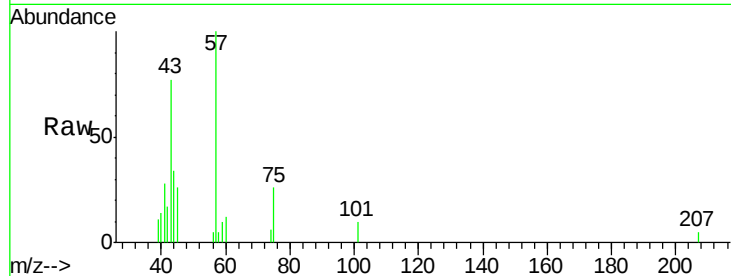




#54
 cis-1,3-Dichloropropene
 Concen: 0.21 ug/l
 RT: 9.91 min Scan# 2587
 Delta R.T. 0.07 min
 Lab File: VN049921.D
 Acq: 19 Jul 2018 17:16

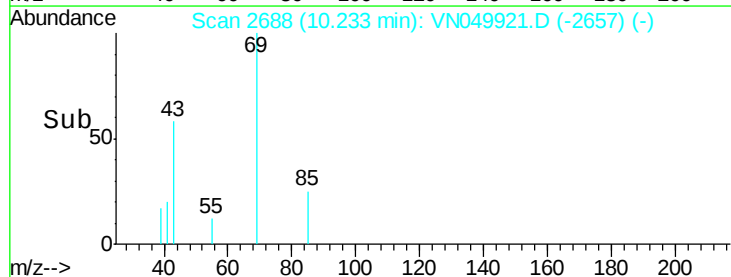
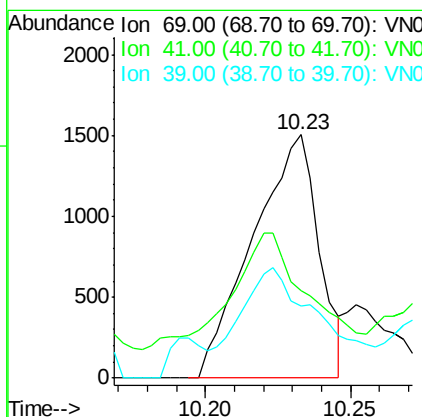
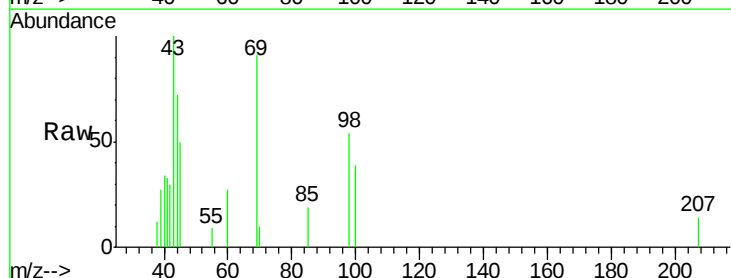
Instrument :
 MSVOA_N
 ClientSampleId :
 PB111251ZHE#08

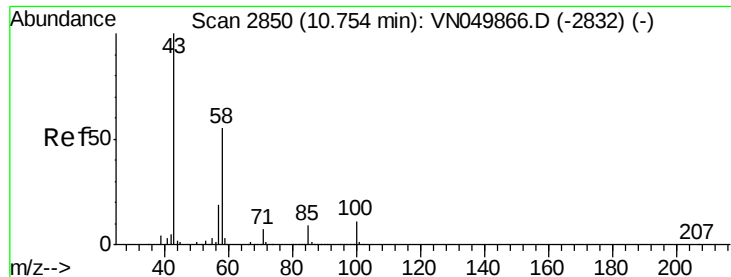
Tot Ion: 75 Resp: 2421
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.3 37.9#
 39 43.1 35.5 53.3



#56
 Ethyl methacrylate
 Concen: 2.38 ug/l
 RT: 10.23 min Scan# 2688
 Delta R.T. -0.20 min
 Lab File: VN049921.D
 Acq: 19 Jul 2018 17:16

Tgt Ion: 69 Resp: 2380
 Ion Ratio Lower Upper
 69 100
 41 61.3 51.6 77.4
 39 56.6 25.8 38.8#





#59

2-Hexanone

Concen: 4.55 ug/l

RT: 10.77 min Scan# 2854

Delta R.T. 0.01 min

Lab File: VN049921.D

Acq: 19 Jul 2018 17:16

Instrument :

MSVOA_N

ClientSampleId :

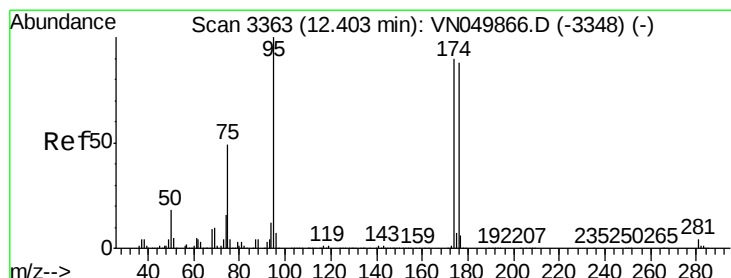
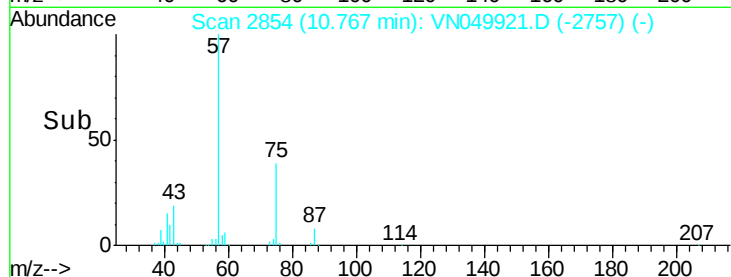
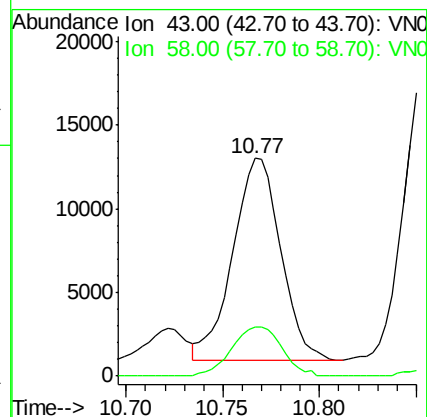
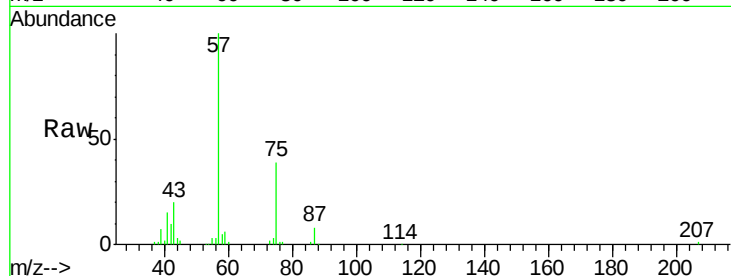
PB111251ZHE#08

Tot Ion: 43 Resp: 20855

Ion Ratio Lower Upper

43 100

58 25.5 27.8 83.4#



#62

4-Bromofluorobenzene

Concen: 35.22 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.00 min

Lab File: VN049921.D

Acq: 19 Jul 2018 17:16

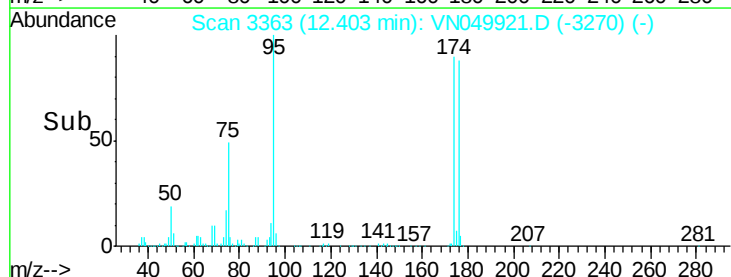
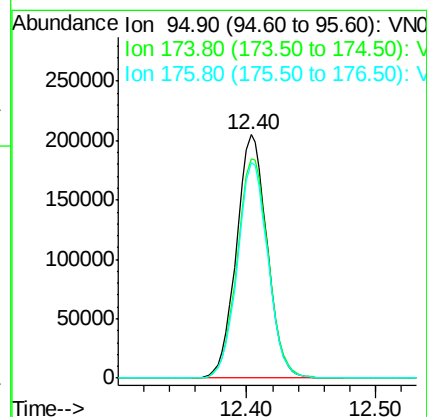
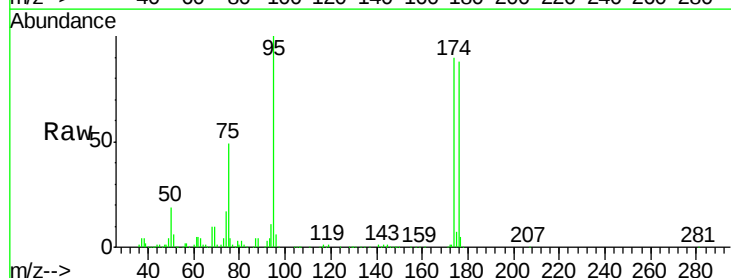
Tgt Ion: 95 Resp: 339246

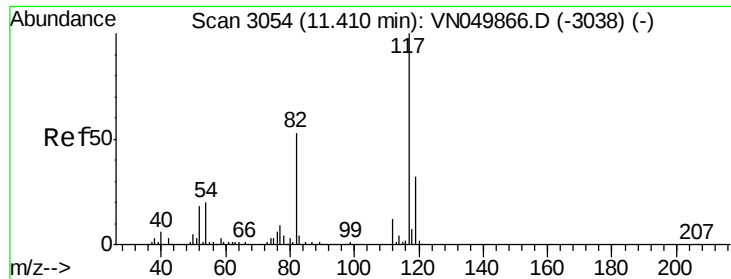
Ion Ratio Lower Upper

95 100

174 91.8 0.0 179.6

176 87.7 0.0 174.0

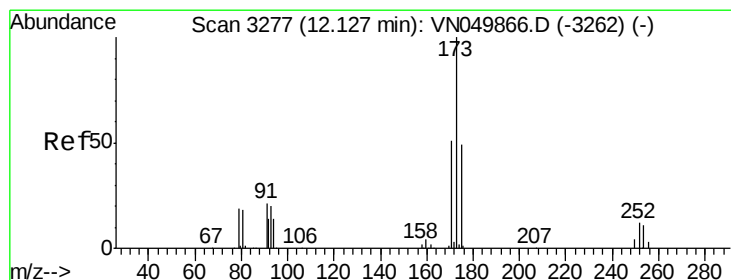
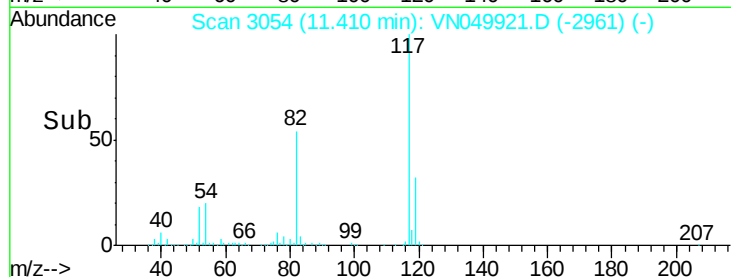
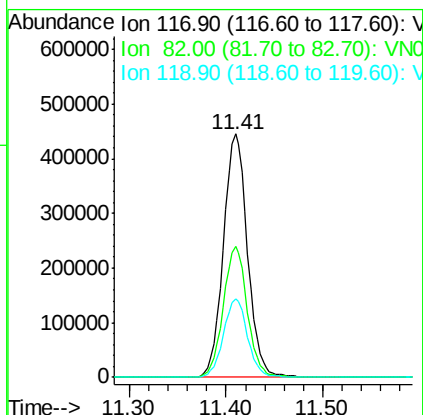
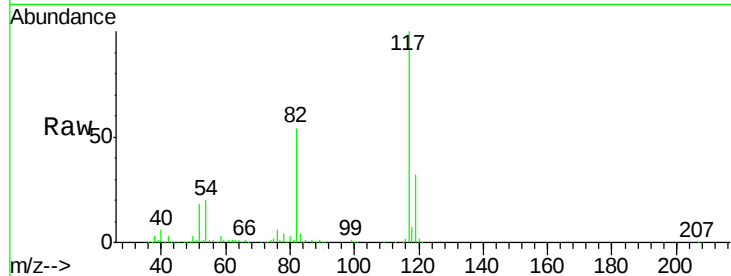




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. -0.00 min
Lab File: VN049921.D
Acq: 19 Jul 2018 17:16

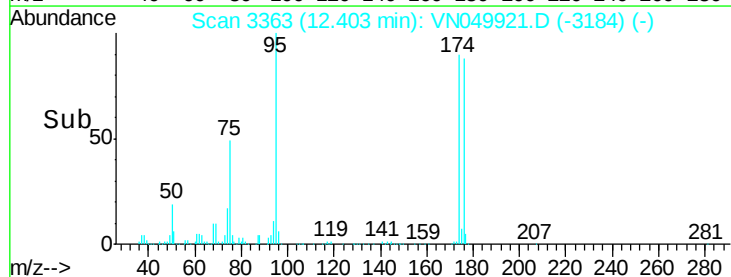
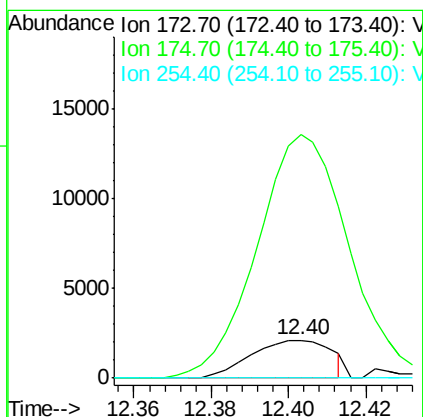
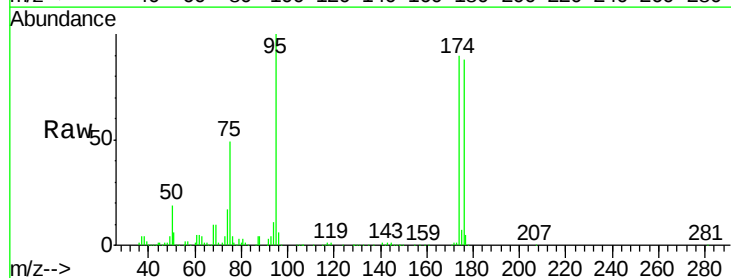
Instrument :
MSVOA_N
ClientSampleId :
PB111251ZHE#08

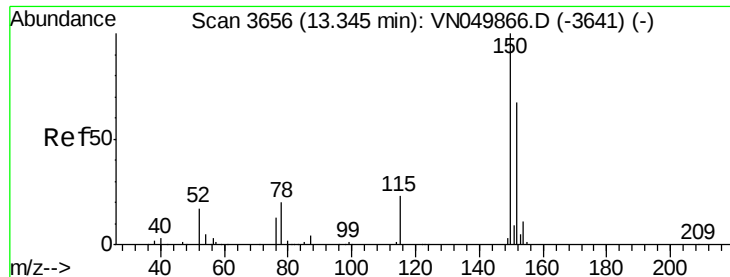
Tot Ion:117 Resp: 770300
Ion Ratio Lower Upper
117 100
82 53.5 41.9 62.9
119 32.4 25.4 38.2



#71
Bromoform
Concen: 0.57 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.28 min
Lab File: VN049921.D
Acq: 19 Jul 2018 17:16

Tgt Ion:173 Resp: 3050
Ion Ratio Lower Upper
173 100
175 609.4 24.6 73.8#
254 0.0 0.2 0.2#





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. -0.00 min

Lab File: VN049921.D

Acq: 19 Jul 2018 17:16

Instrument :

MSVOA_N

ClientSampleId :

PB111251ZHE#08

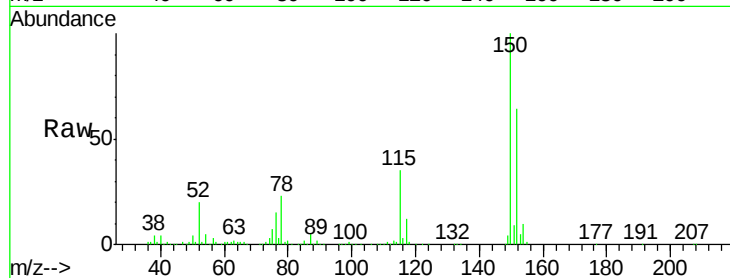
Tot Ion:152 Resp: 289511

Ion Ratio Lower Upper

152 100

115 56.1 28.1 84.2

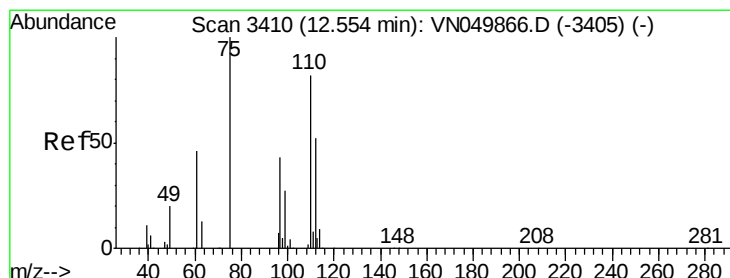
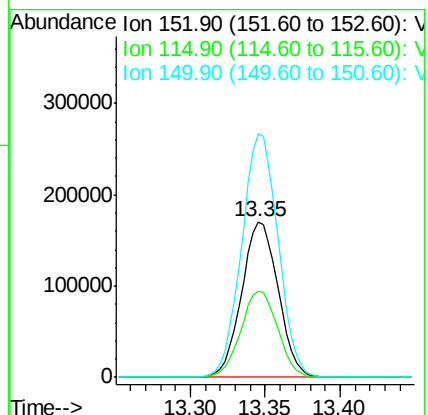
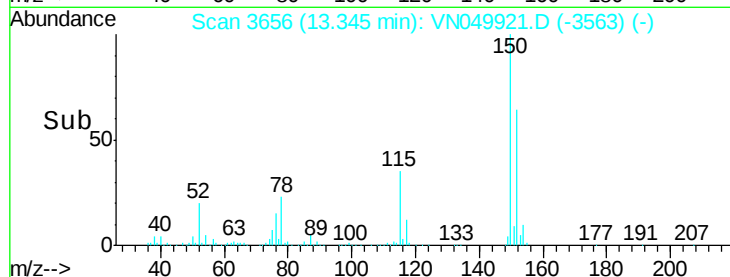
150 156.5 0.0 347.6



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



#76

1,2,3-Trichloropropane

Concen: 30.74 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN049921.D

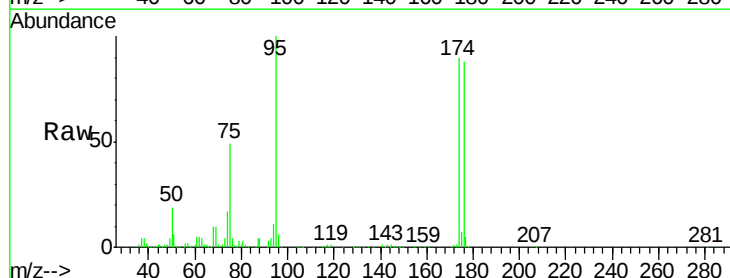
Acq: 19 Jul 2018 17:16

Tgt Ion: 75 Resp: 166921

Ion Ratio Lower Upper

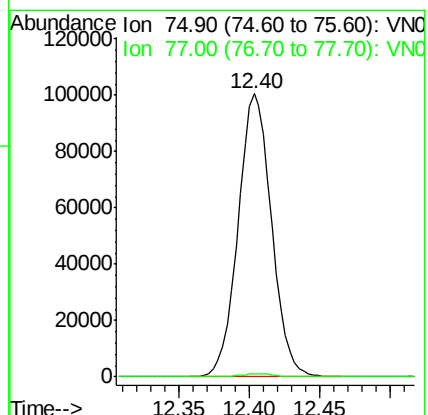
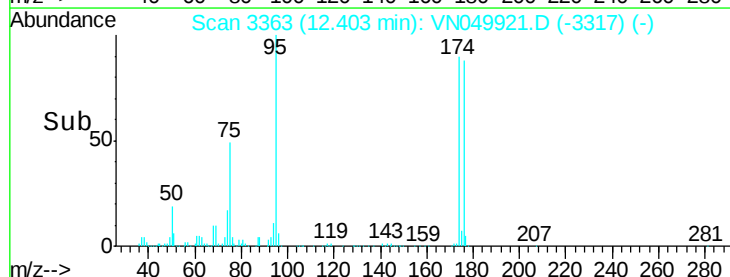
75 100

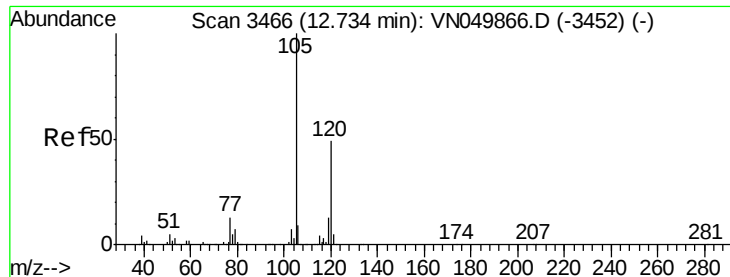
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#80

1,3,5-Trimethylbenzene

Concen: 0.24 ug/l

RT: 12.73 min Scan# 3466

Delta R.T. -0.00 min

Lab File: VN049921.D

Acq: 19 Jul 2018 17:16

Instrument :

MSVOA_N

ClientSampleId :

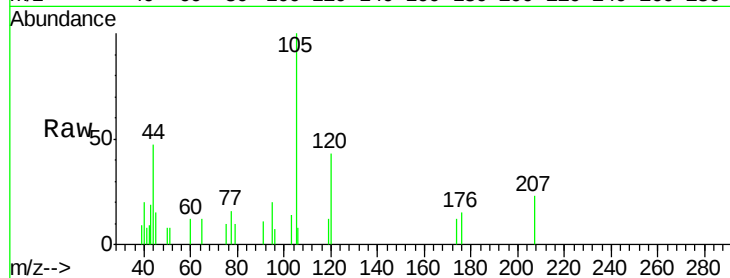
PB111251ZHE#08

Tot Ion:105 Resp: 4198

Ion Ratio Lower Upper

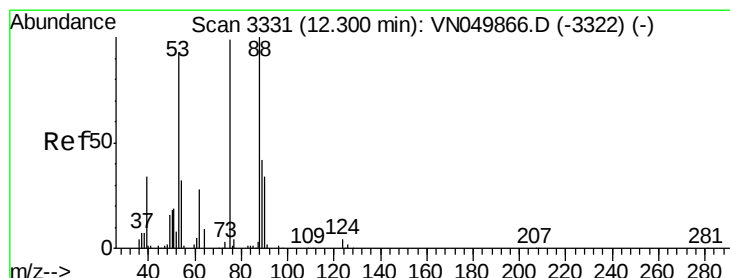
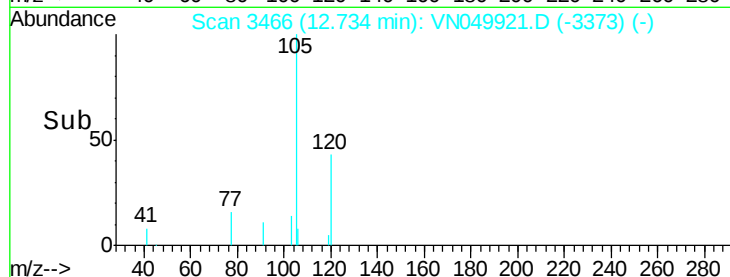
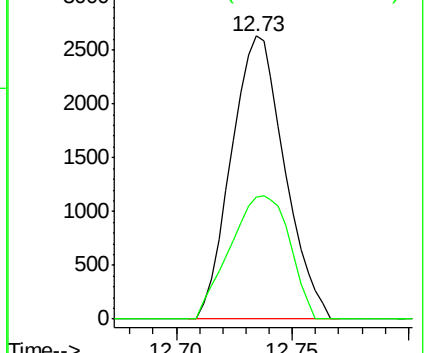
105 100

120 48.6 24.3 72.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 96.11 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN049921.D

Acq: 19 Jul 2018 17:16

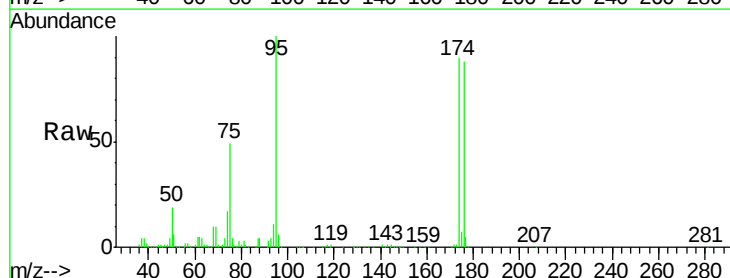
Tgt Ion: 75 Resp: 166921

Ion Ratio Lower Upper

75 100

53 0.2 73.9 110.9#

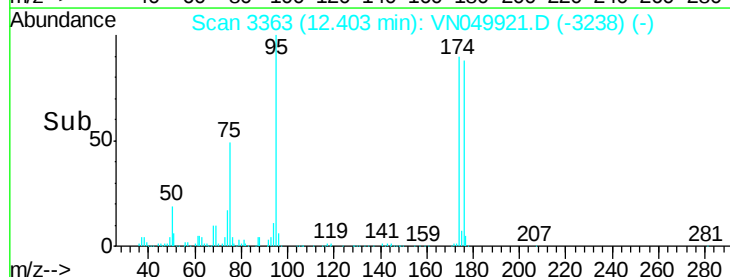
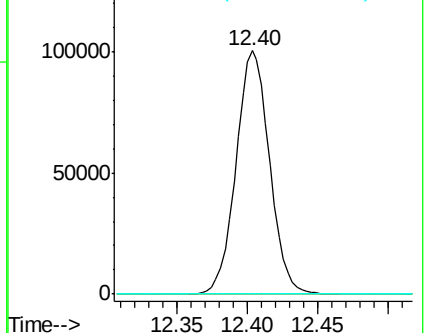
89 0.0 35.9 53.9#

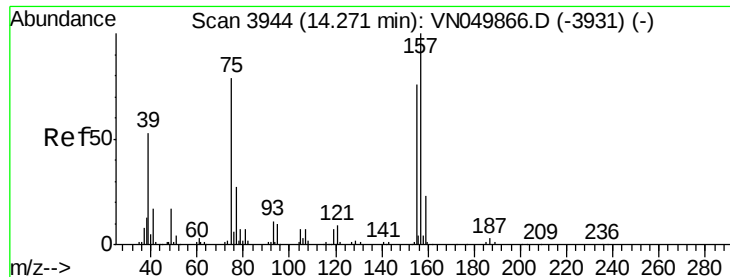


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.26 ug/l

RT: 14.26 min Scan# 3942

Delta R.T. -0.01 min

Lab File: VN049921.D

Acq: 19 Jul 2018 17:16

Instrument :

MSVOA_N

ClientSampleId :

PB111251ZHE#08

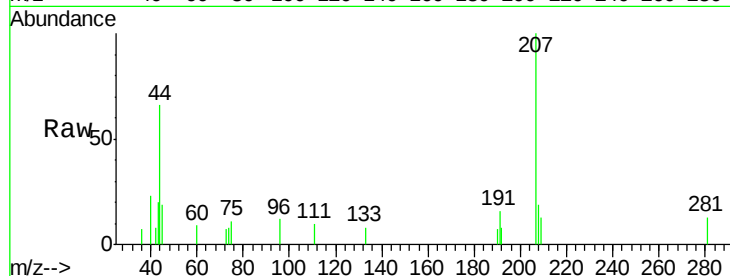
Tot Ion: 75 Resp: 265

Ion Ratio Lower Upper

75 100

155 0.0 45.7 137.1#

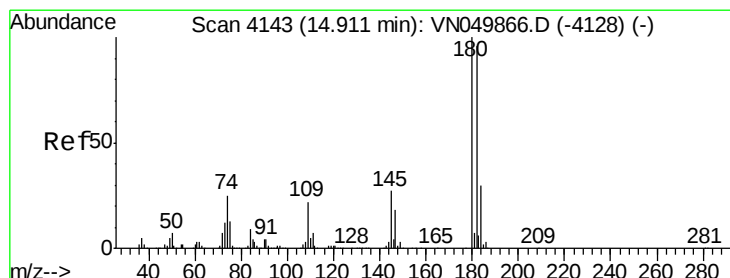
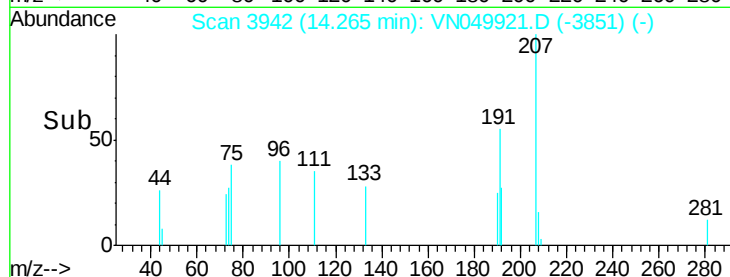
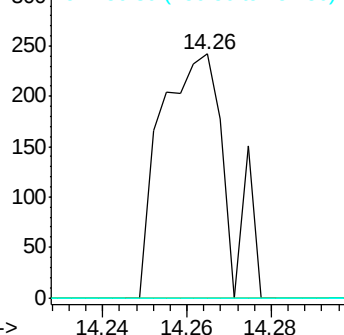
157 0.0 56.9 170.7#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V



#93

1,2,4-Trichlorobenzene

Concen: 3.49 ug/l

RT: 14.91 min Scan# 4142

Delta R.T. -0.00 min

Lab File: VN049921.D

Acq: 19 Jul 2018 17:16

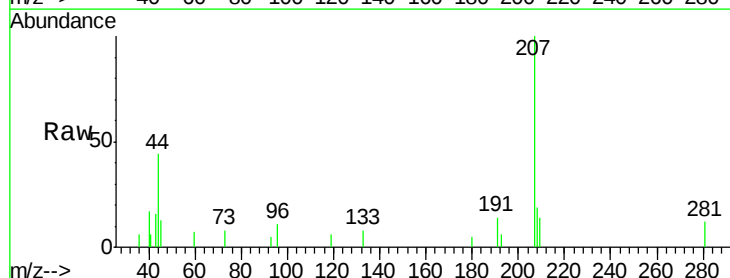
Tgt Ion:180 Resp: 64

Ion Ratio Lower Upper

180 100

182 48.4 47.3 141.9

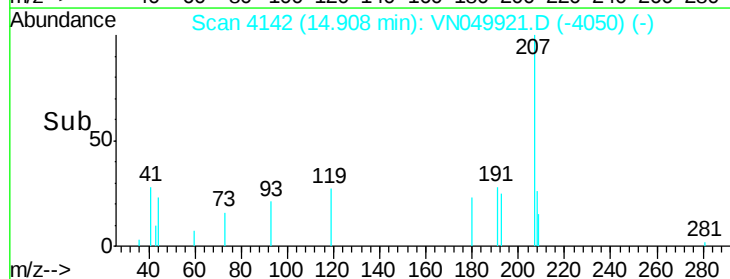
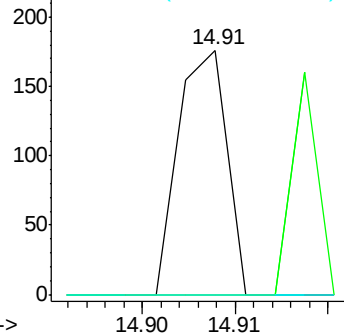
145 0.0 14.4 43.0#

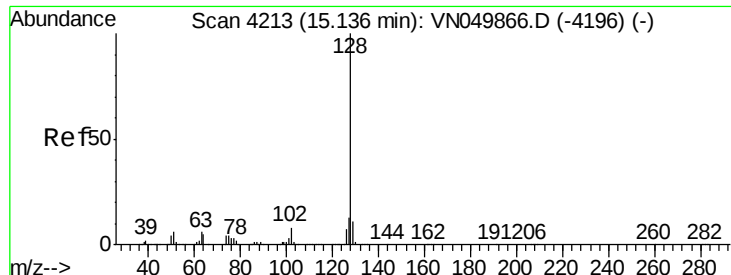


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V

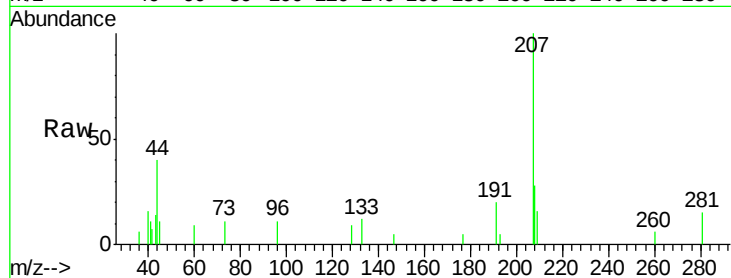




#95
Naphthalene
Concen: 4.51 ug/l
RT: 15.14 min Scan# 4213
Delta R.T. 0.00 min
Lab File: VN049921.D
Acq: 19 Jul 2018 17:16

Instrument :
MSVOA_N
ClientSampleId :
PB111251ZHE#08

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

