

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN072018\
 Data File : VN049962.D
 Acq On : 20 Jul 2018 15:03
 Operator : MD\SY
 Sample : PB111289ZHE#02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB111289ZHE#02

Quant Time: Jul 20 23:47:05 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	560650	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	929348	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	783649	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	275838	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	398405	51.70	ug/l	0.00
Spiked Amount			Recovery	=	103.40%	
35) Dibromofluoromethane	7.59	113	349905	44.85	ug/l	0.00
Spiked Amount			Recovery	=	89.70%	
50) Toluene-d8	10.09	98	1241704	43.68	ug/l	0.00
Spiked Amount			Recovery	=	87.36%	
62) 4-Bromofluorobenzene	12.40	95	335971	34.32	ug/l	0.00
Spiked Amount			Recovery	=	68.64%	

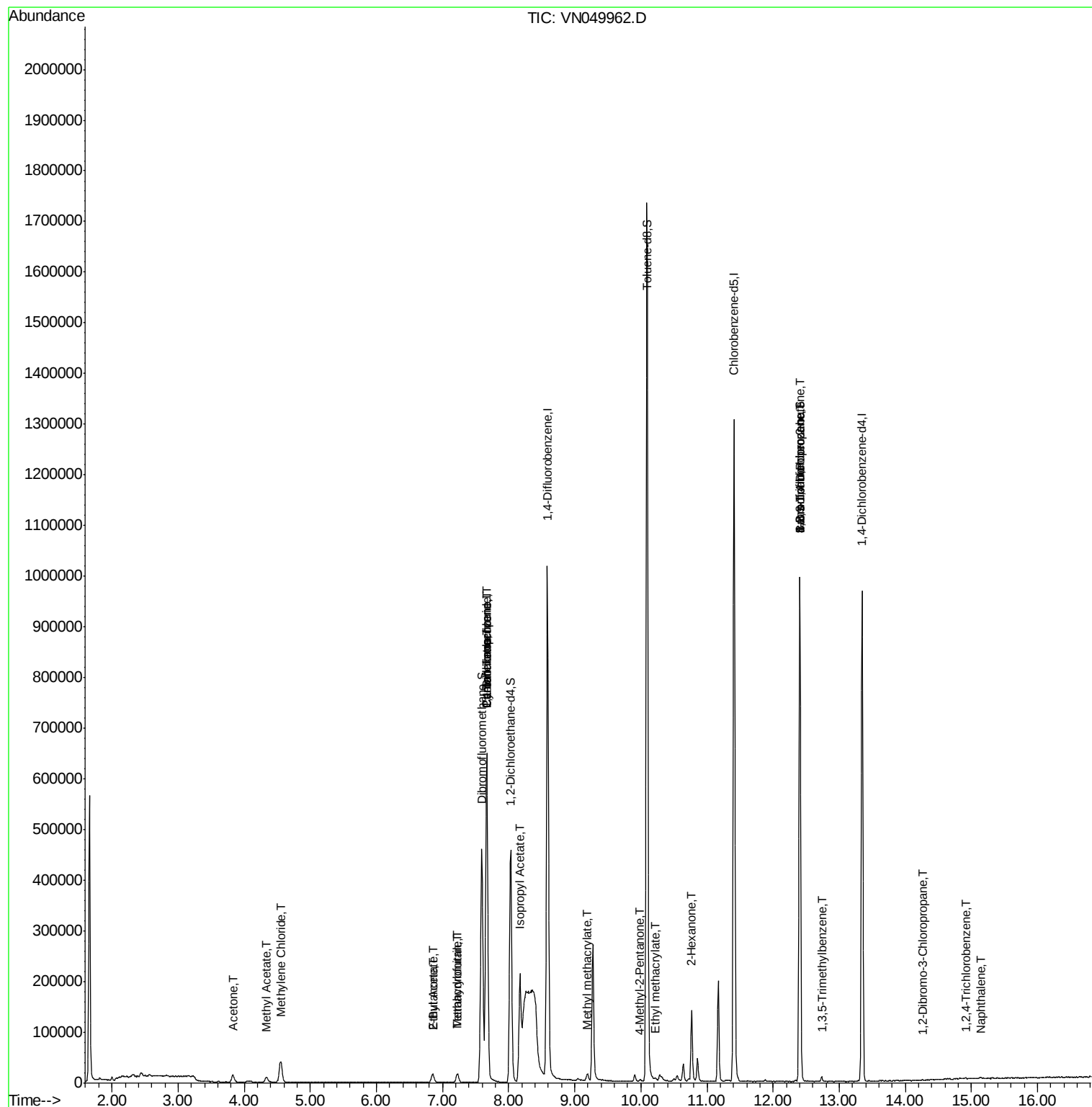
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.57	94	1466	Below Cal		99
16) Acetone	3.83	43	23550	11.80	ug/l	97
18) Methyl Acetate	4.33	43	20055	2.41	ug/l	97
20) Methylene Chloride	4.54	84	32749	4.32	ug/l	96
25) 2-Butanone	6.85	43	27578	9.67	ug/l	92
29) Tetrahydrofuran	7.22	42	14204	7.91	ug/l	95
31) Cyclohexane	7.67	56	10676	1.04	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	39201	3.79	ug/l #	48
37) Ethyl Acetate	6.85	43	27578	3.89	ug/l #	68
38) Carbon Tetrachloride	7.67	117	50776	4.59	ug/l #	16
41) Methacrylonitrile	7.22	41	8963	2.52	ug/l #	44
43) Isopropyl Acetate	8.17	43	256036	20.65	ug/l	99
48) Methyl methacrylate	9.18	41	8861	1.42	ug/l #	21
51) 4-Methyl-2-Pentanone	9.99	43	1924	0.28	ug/l	91
56) Ethyl methacrylate	10.23	69	2126	2.35	ug/l #	65
59) 2-Hexanone	10.77	43	20584	4.42	ug/l #	57
71) Bromoform	12.41	173	3204	0.59	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	163595	31.62	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	4401	0.26	ug/l	93
81) trans-1,4-Dichloro-2-buten	12.40	75	163595	98.86	ug/l #	13
92) 1,2-Dibromo-3-Chloropropan	14.25	75	365	0.38	ug/l #	1
93) 1,2,4-Trichlorobenzene	14.91	180	608	3.58	ug/l #	87
95) Naphthalene	15.14	128	1943	4.63	ug/l #	81

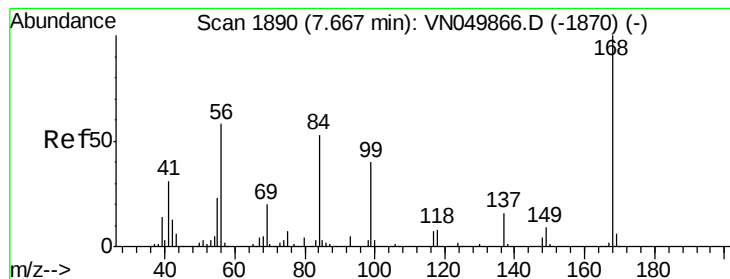
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jul 20 23:47:05 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# 1891

Delta R.T. 0.00 min

Lab File: VN049962.D

Acq: 20 Jul 2018 15:03

Instrument :

MSVOA_N

ClientSampleId :

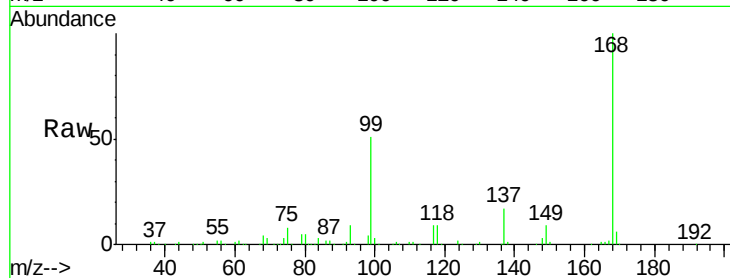
PB111289ZHE#02

Tot Ion:168 Resp: 560650

Ion Ratio Lower Upper

168 100

99 51.1 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

250000

200000

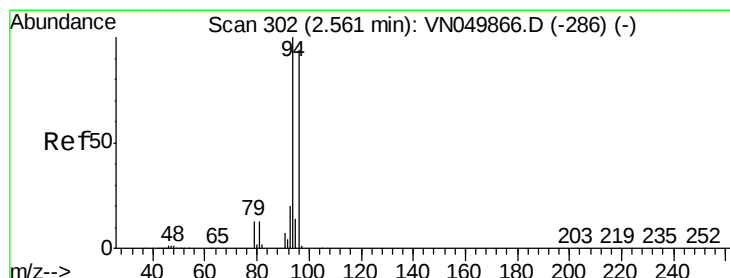
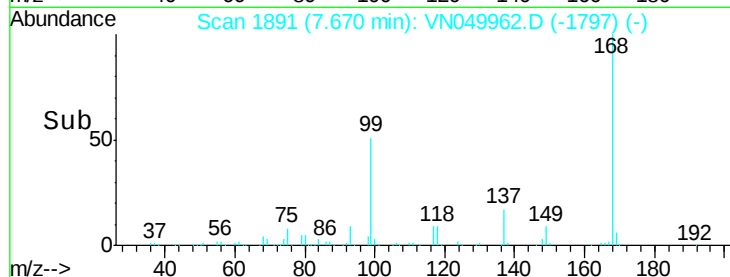
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 306

Delta R.T. 0.01 min

Lab File: VN049962.D

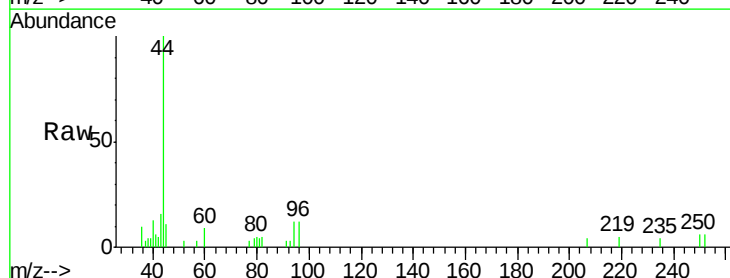
Acq: 20 Jul 2018 15:03

Tgt Ion: 94 Resp: 1466

Ion Ratio Lower Upper

94 100

96 93.2 75.7 113.5



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO

2.57

800

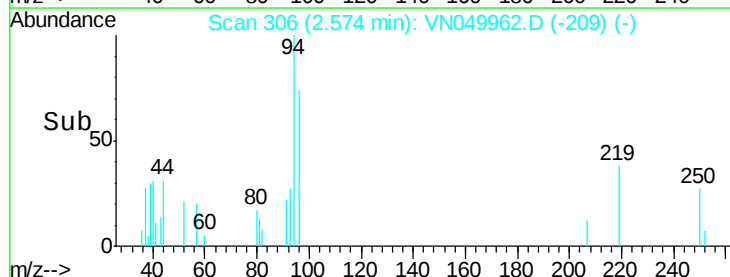
600

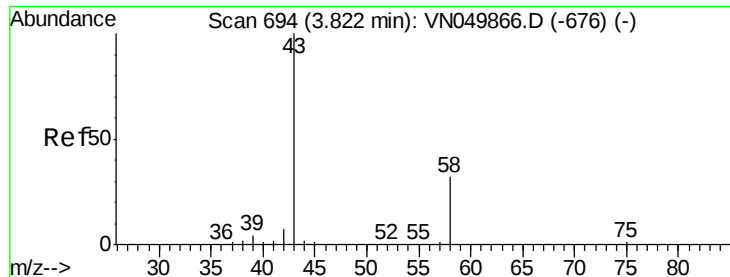
400

200

0

Time-->





#16

Acetone

Concen: 11.80 ug/l

RT: 3.83 min Scan# 696

Delta R.T. 0.01 min

Lab File: VN049962.D

Acq: 20 Jul 2018 15:03

Instrument :

MSVOA_N

ClientSampleId :

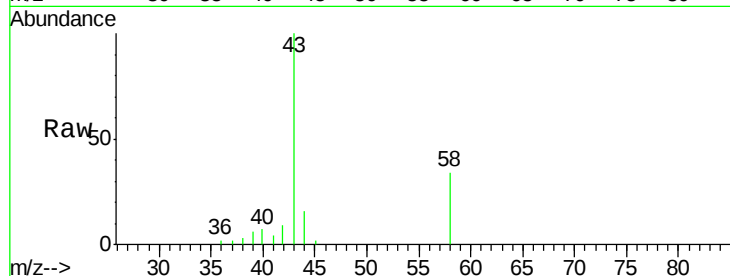
PB111289ZHE#02

Tot Ion: 43 Resp: 23550

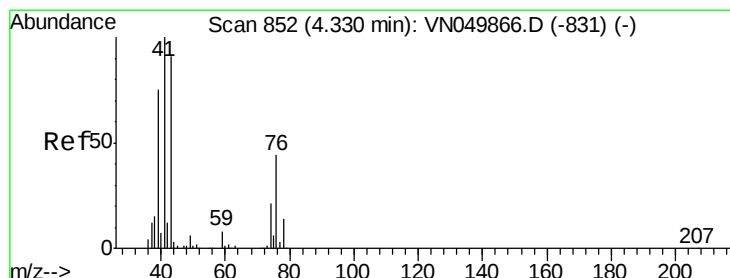
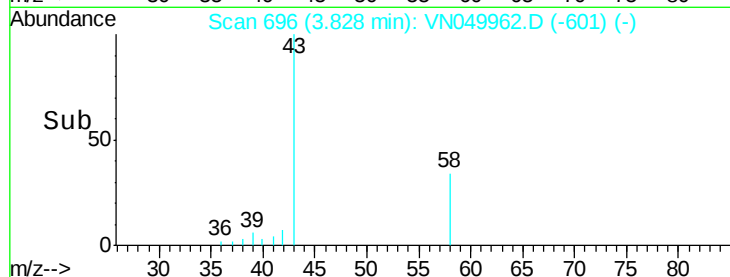
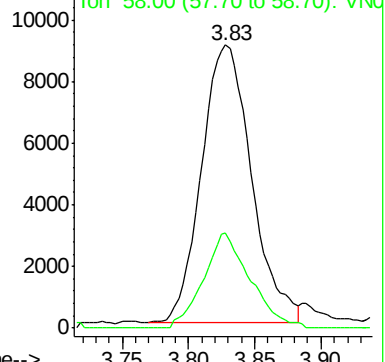
Ion Ratio Lower Upper

43 100

58 34.3 25.9 38.9



Abundance Ion 43.00 (42.70 to 43.70): VN049962.D (-601) (-)



#18

Methyl Acetate

Concen: 2.41 ug/l

RT: 4.33 min Scan# 853

Delta R.T. 0.00 min

Lab File: VN049962.D

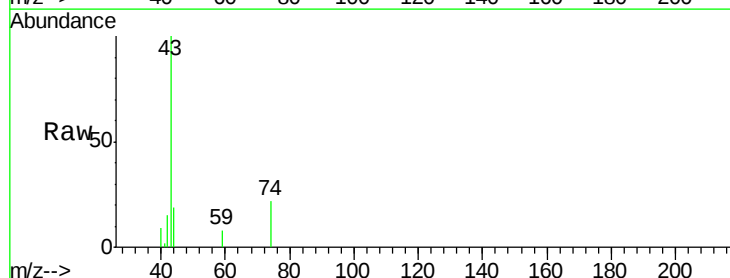
Acq: 20 Jul 2018 15:03

Tgt Ion: 43 Resp: 20055

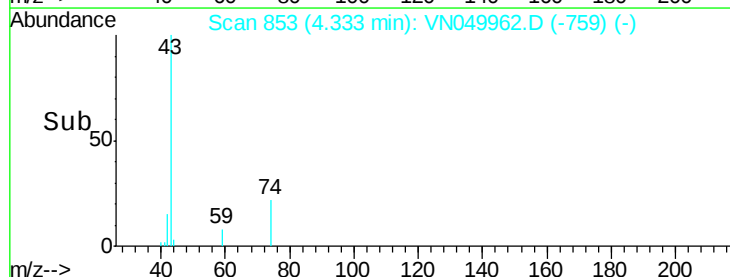
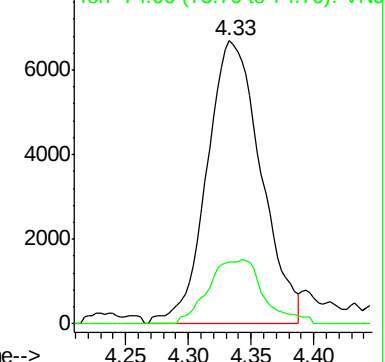
Ion Ratio Lower Upper

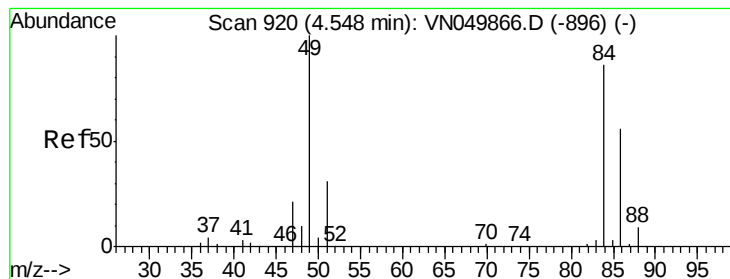
43 100

74 23.3 19.8 29.8



Abundance Ion 43.00 (42.70 to 43.70): VN049962.D (-759) (-)





#20

Methvlene Chloride

Concen: 4.32 ug/l

RT: 4.54 min Scan# 919

Delta R.T. -0.00 min

Lab File: VN049962.D

Acq: 20 Jul 2018 15:03

Instrument :

MSVOA_N

ClientSampleId :

PB111289ZHE#02

Tot Ion: 84 Resp: 32749

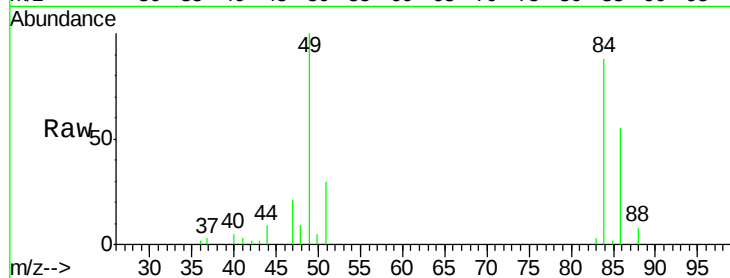
Ion Ratio Lower Upper

84 100

49 113.4 95.4 143.2

51 34.4 28.4 42.6

86 62.5 52.6 79.0

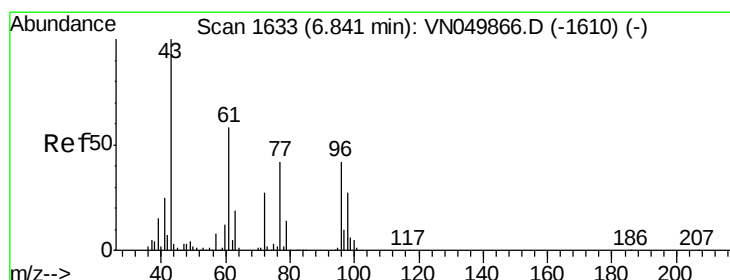
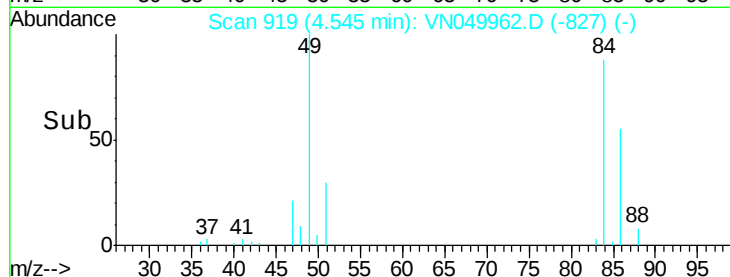
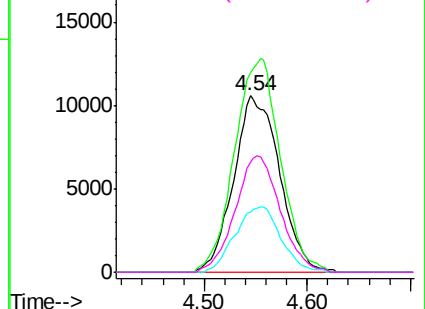


Abundance Ion 83.90 (83.60 to 84.60): VN0

Ion 48.90 (48.60 to 49.60): VN0

Ion 50.90 (50.60 to 51.60): VN0

Ion 85.90 (85.60 to 86.60): VN0



#25

2-Butanone

Concen: 9.67 ug/l

RT: 6.85 min Scan# 1636

Delta R.T. 0.01 min

Lab File: VN049962.D

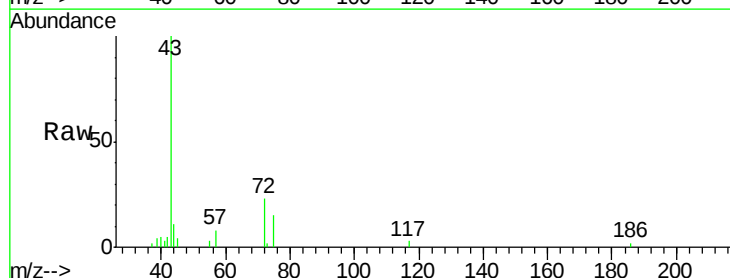
Acq: 20 Jul 2018 15:03

Tgt Ion: 43 Resp: 27578

Ion Ratio Lower Upper

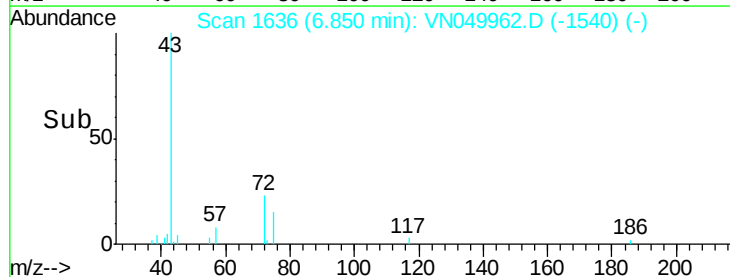
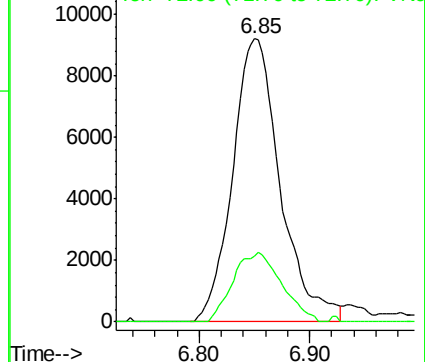
43 100

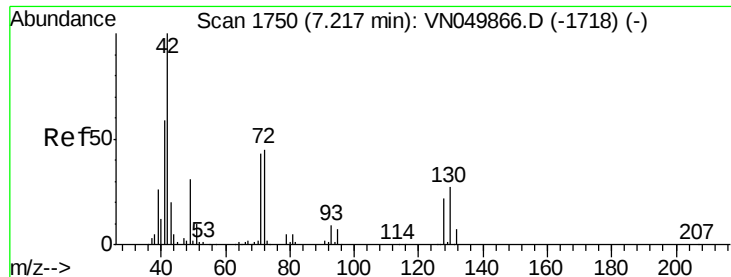
72 23.3 22.1 33.1



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0





#29

Tetrahydrofuran

Concen: 7.91 ug/l

RT: 7.22 min Scan# 1752

Delta R.T. 0.01 min

Lab File: VN049962.D

Acq: 20 Jul 2018 15:03

Instrument :

MSVOA_N

ClientSampleId :

PB111289ZHE#02

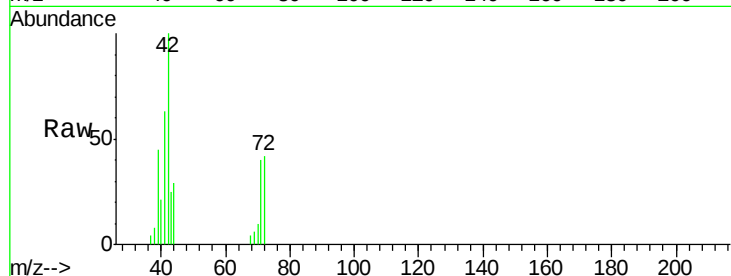
Tot Ion: 42 Resp: 14204

Ion Ratio Lower Upper

42 100

72 41.6 35.6 53.4

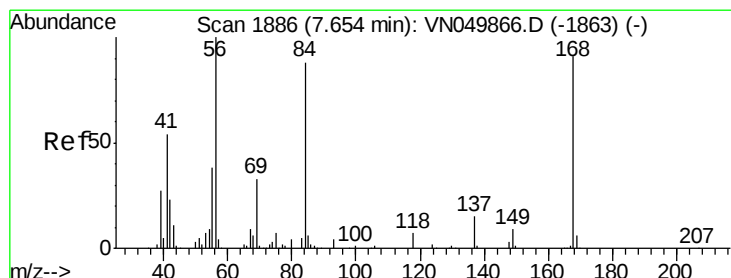
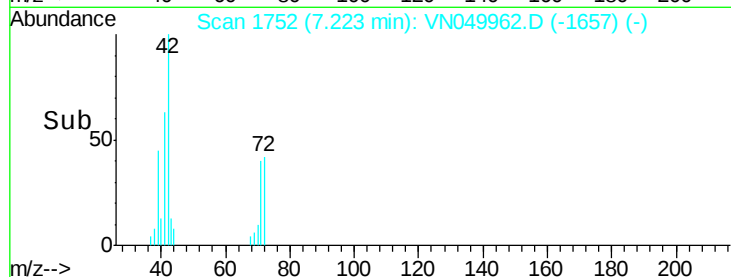
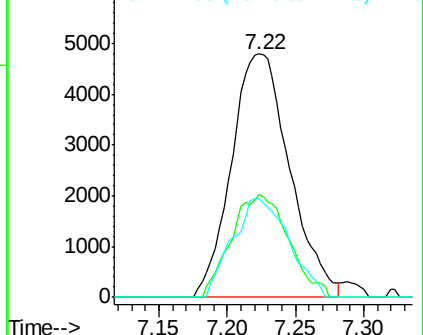
71 39.1 34.0 51.0



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0



#31

Cyclohexane

Concen: 1.04 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. 0.01 min

Lab File: VN049962.D

Acq: 20 Jul 2018 15:03

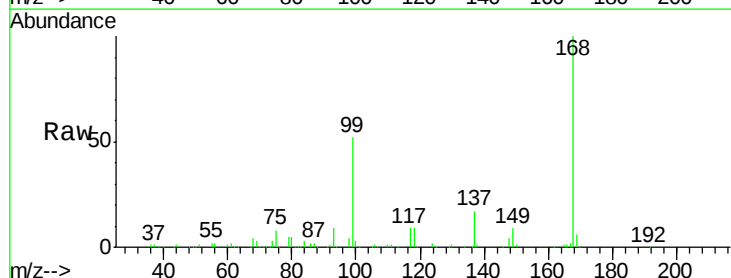
Tgt Ion: 56 Resp: 10676

Ion Ratio Lower Upper

56 100

69 180.9 26.6 40.0#

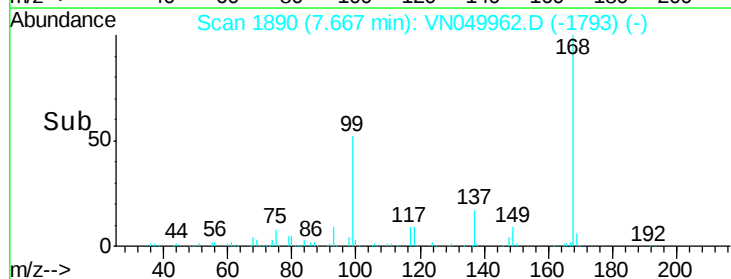
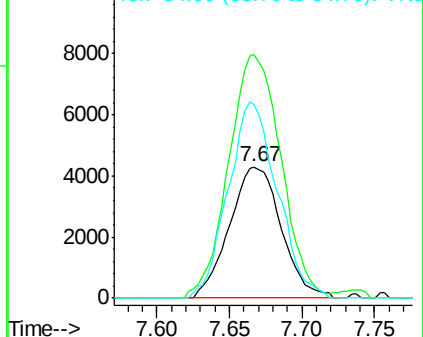
84 147.0 69.0 103.6#

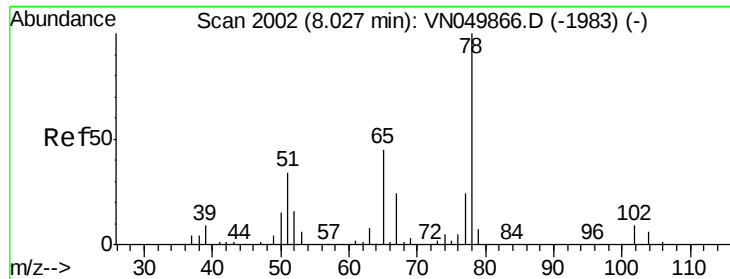


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0





#33

1,2-Dichloroethane-d4

Concen: 51.70 ug/l

RT: 8.03 min Scan# 2003

Delta R.T. 0.00 min

Lab File: VN049962.D

Acq: 20 Jul 2018 15:03

Instrument :

MSVOA_N

ClientSampleId :

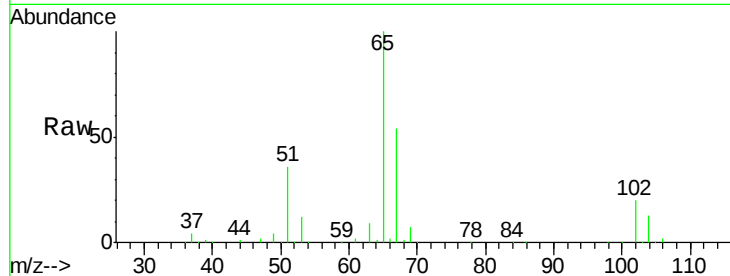
PB111289ZHE#02

Tot Ion: 65 Resp: 398405

Ion Ratio Lower Upper

65 100

67 53.2 0.0 107.2



Abundance Ion 64.90 (64.60 to 65.60): VN049962.D (-1909) (-)

Ion 66.90 (66.60 to 67.60): VN049962.D (-1909) (-)

8.03

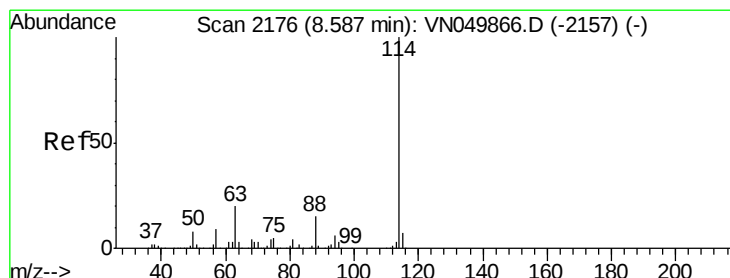
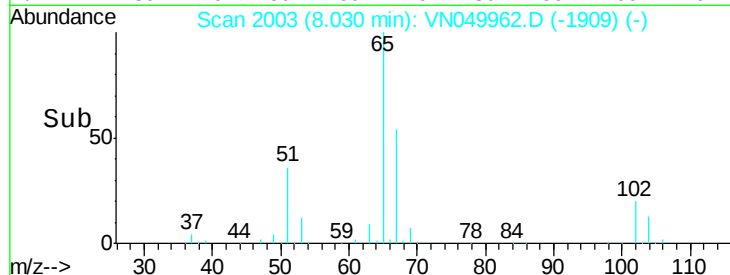
150000

100000

50000

0

Time--> 7.90 8.00 8.10



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.59 min Scan# 2176

Delta R.T. -0.00 min

Lab File: VN049962.D

Acq: 20 Jul 2018 15:03

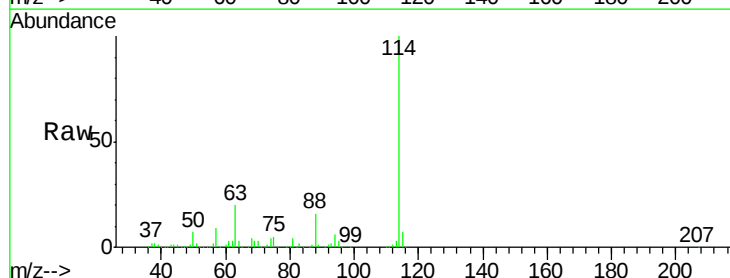
Tgt Ion: 114 Resp: 929348

Ion Ratio Lower Upper

114 100

63 20.2 0.0 39.8

88 15.7 0.0 30.6



Abundance Ion 113.90 (113.60 to 114.60): VN049962.D (-2083) (-)

Ion 63.00 (62.70 to 63.70): VN049962.D (-2083) (-)

Ion 87.90 (87.60 to 88.60): VN049962.D (-2083) (-)

8.59

600000

500000

400000

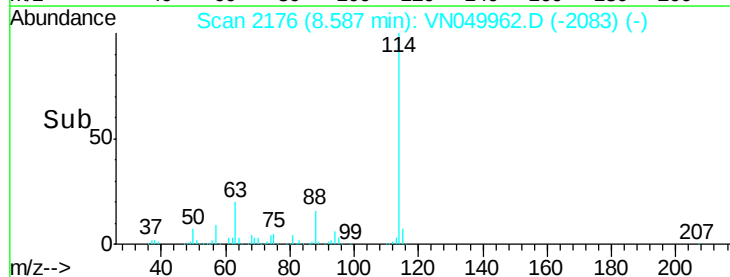
300000

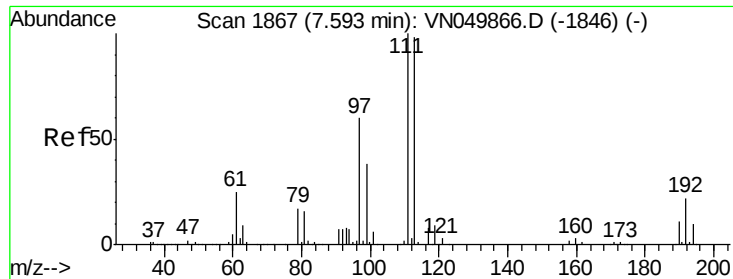
200000

100000

0

Time--> 8.50 8.60 8.70 8.80

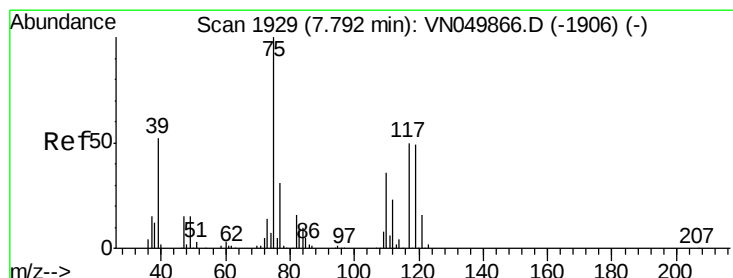
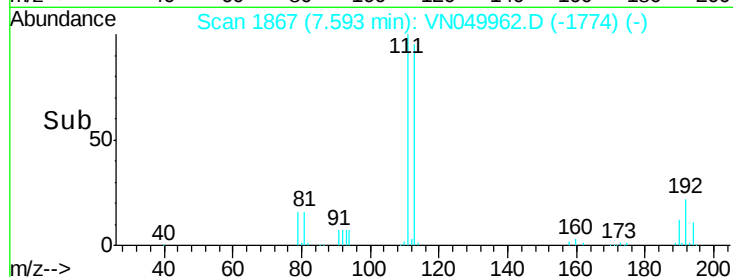
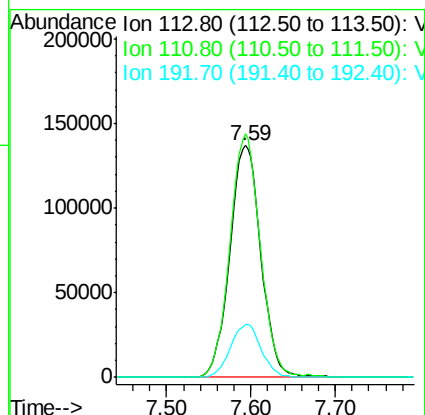
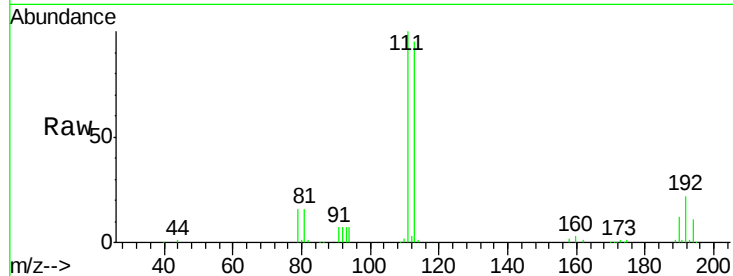




#35
 Dibromofluoromethane
 Concen: 44.85 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. -0.00 min
 Lab File: VN049962.D
 Acq: 20 Jul 2018 15:03

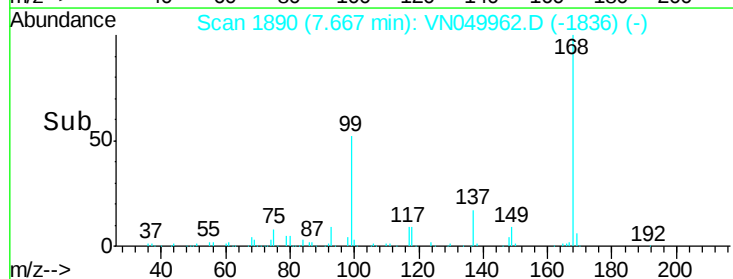
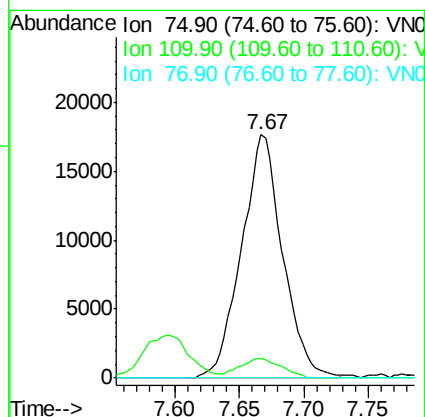
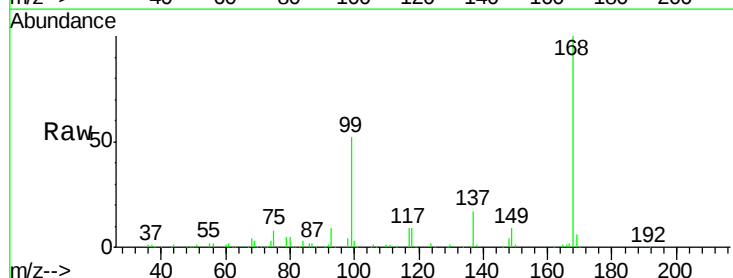
Instrument :
 MSVOA_N
 ClientSampleId :
 PB111289ZHE#02

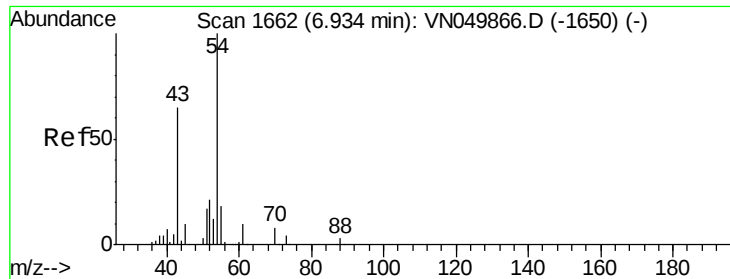
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.6	81.8	122.8
192	22.7	17.8	26.6



#36
 1,1-Dichloropropene
 Concen: 3.79 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.13 min
 Lab File: VN049962.D
 Acq: 20 Jul 2018 15:03

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.2	18.1	54.4#
77	0.0	24.9	37.3#

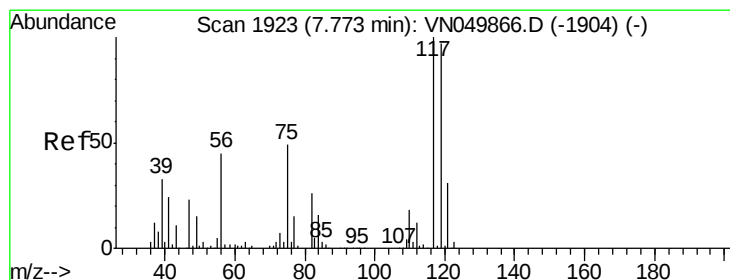
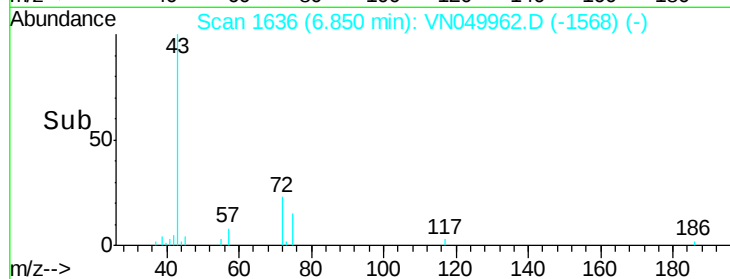
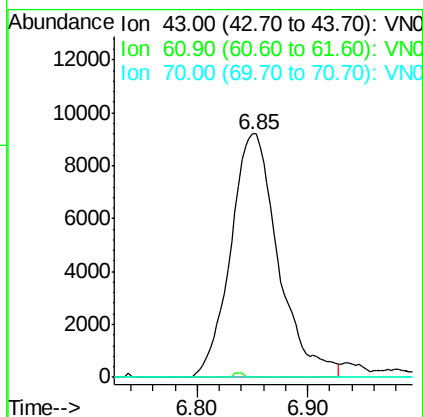
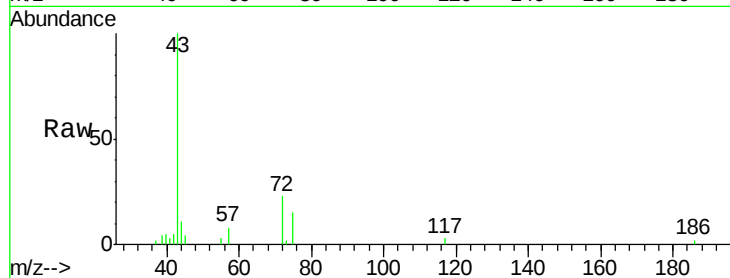




#37
Ethyl Acetate
Concen: 3.89 ug/l
RT: 6.85 min Scan# 1636
Delta R.T. -0.08 min
Lab File: VN049962.D
Acq: 20 Jul 2018 15:03

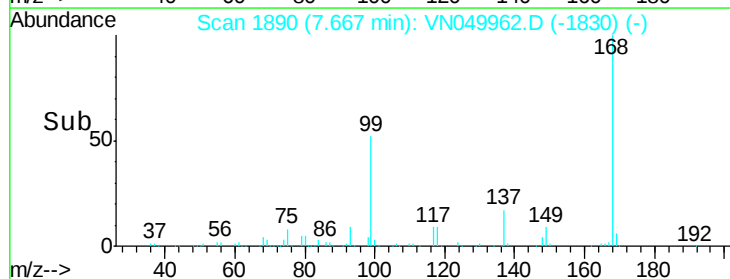
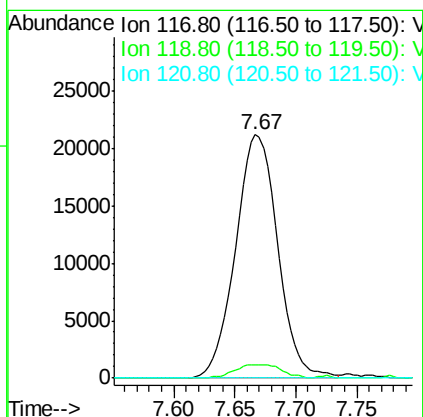
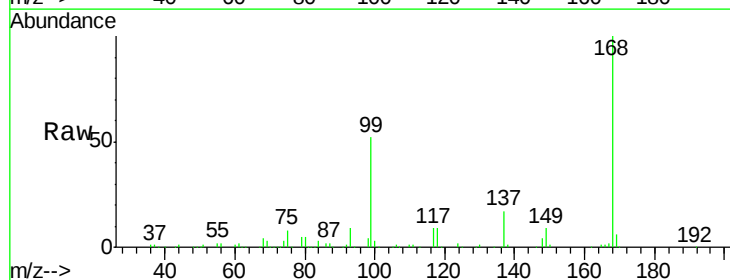
Instrument :
MSVOA_N
ClientSampleId :
PB111289ZHE#02

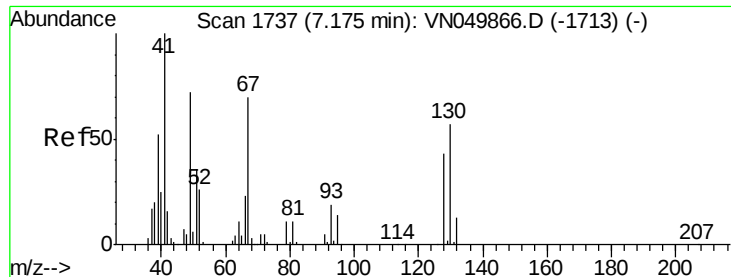
Tot Ion: 43 Resp: 27578
Ion Ratio Lower Upper
43 100
61 0.4 11.7 17.5#
70 0.0 8.4 12.6#



#38
Carbon Tetrachloride
Concen: 4.59 ug/l
RT: 7.67 min Scan# 1890
Delta R.T. -0.11 min
Lab File: VN049962.D
Acq: 20 Jul 2018 15:03

Tgt Ion: 117 Resp: 50776
Ion Ratio Lower Upper
117 100
119 5.3 77.2 115.8#
121 0.0 25.0 37.6#

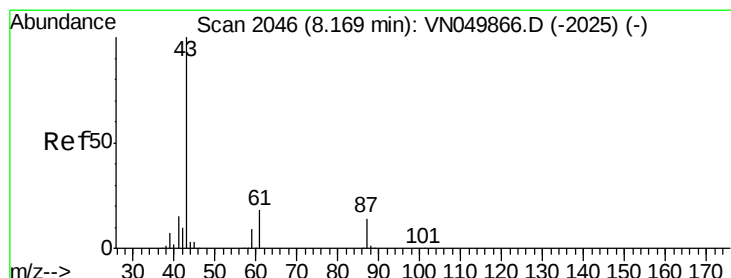
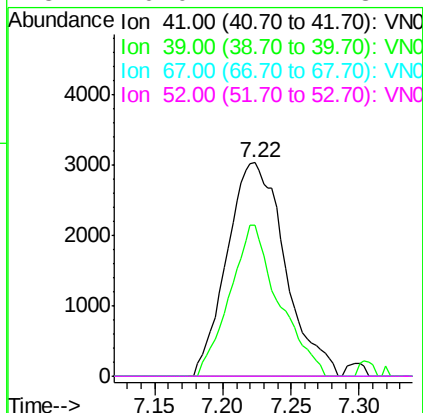
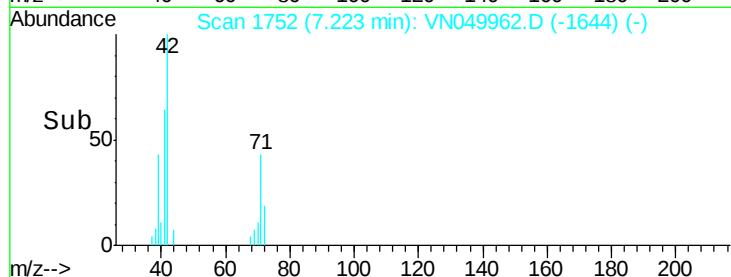
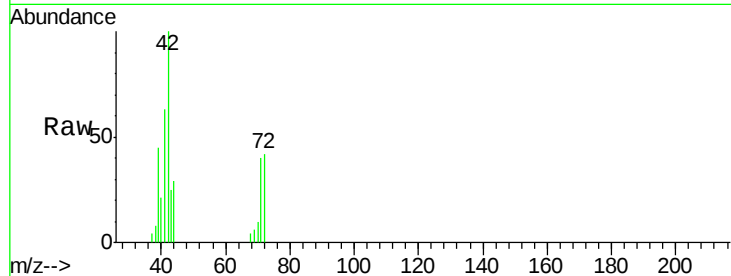




#41
Methacrylonitrile
Concen: 2.52 ug/l
RT: 7.22 min Scan# 1752
Delta R.T. 0.05 min
Lab File: VN049962.D
Acq: 20 Jul 2018 15:03

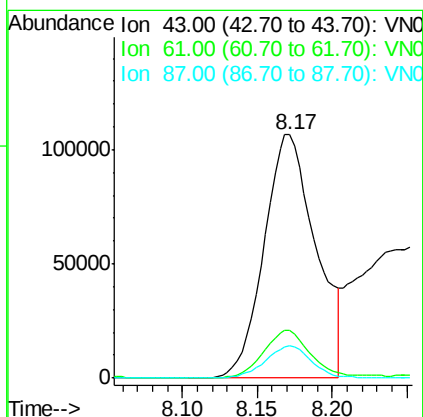
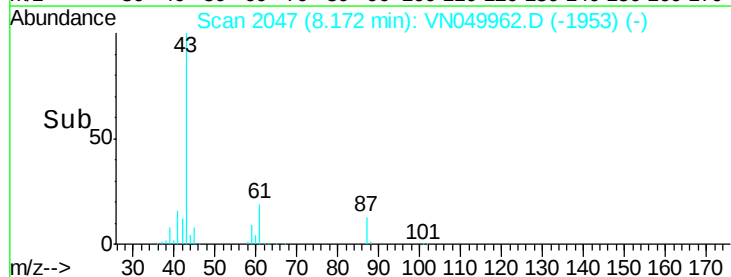
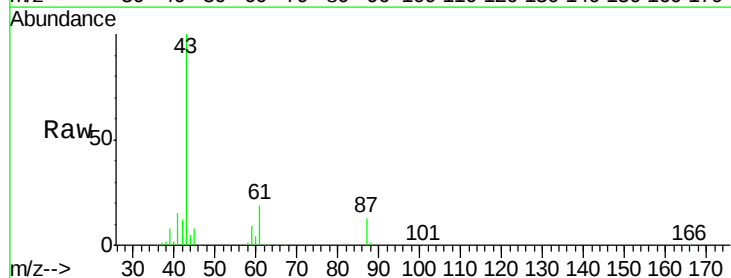
Instrument :
MSVOA_N
ClientSampleId :
PB111289ZHE#02

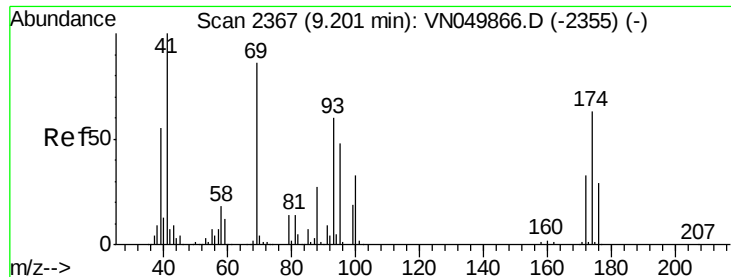
Tot Ion: 41 Resp: 8963
Ion Ratio Lower Upper
41 100
39 59.7 45.4 68.2
67 0.0 65.4 98.0#
52 0.0 24.7 37.1#



#43
Isopropyl Acetate
Concen: 20.65 ug/l
RT: 8.17 min Scan# 2047
Delta R.T. 0.00 min
Lab File: VN049962.D
Acq: 20 Jul 2018 15:03

Tgt Ion: 43 Resp: 256036
Ion Ratio Lower Upper
43 100
61 18.3 14.9 22.3
87 11.9 10.0 15.0

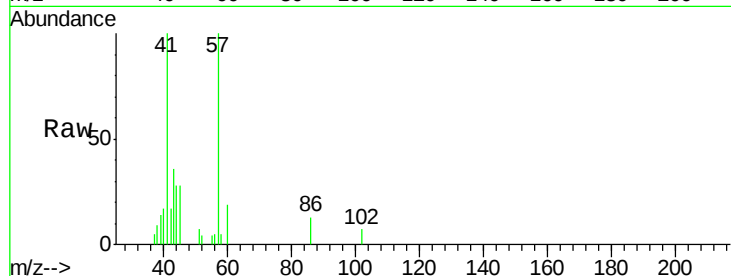




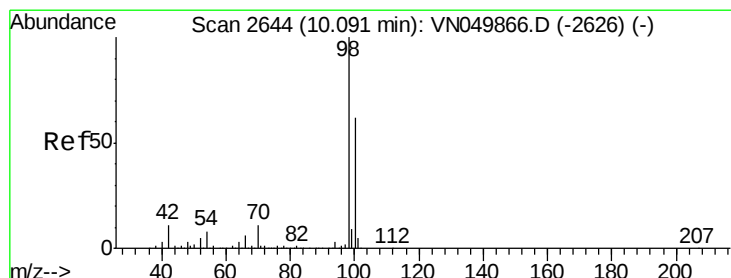
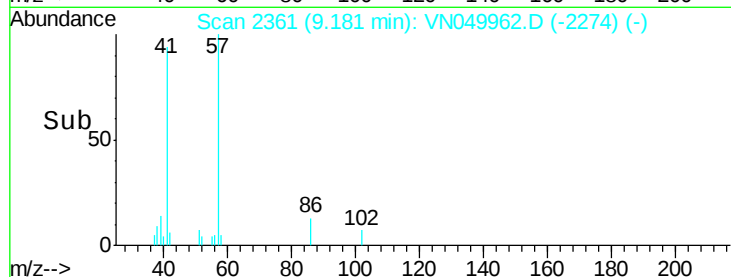
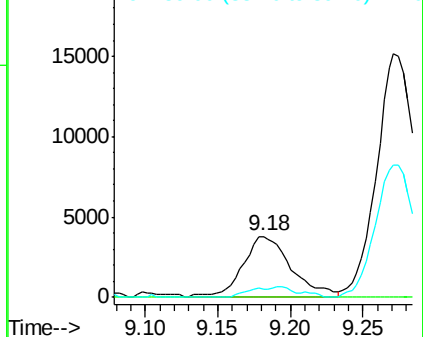
#48
Methvl methacrylate
Concen: 1.42 ug/l
RT: 9.18 min Scan# 2361
Delta R.T. -0.02 min
Lab File: VN049962.D
Acq: 20 Jul 2018 15:03

Instrument :
MSVOA_N
ClientSampleId :
PB111289ZHE#02

Tot Ion: 41 Resp: 8861
Ion Ratio Lower Upper
41 100
69 0.0 71.5 107.3#
39 17.1 44.7 67.1#

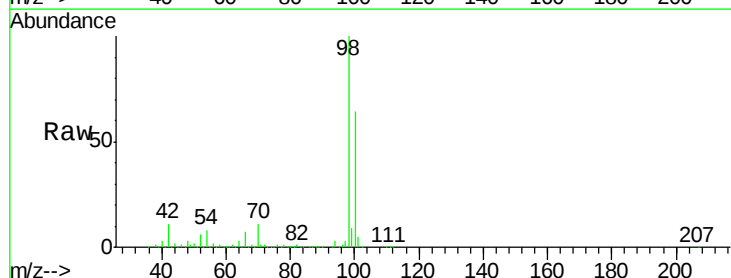


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

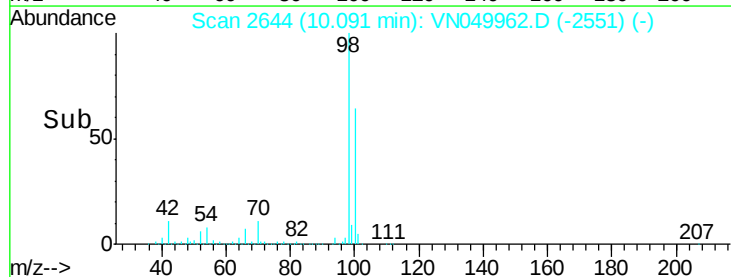
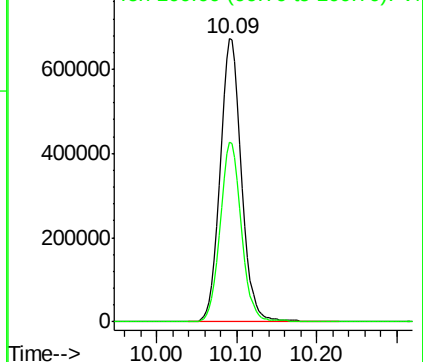


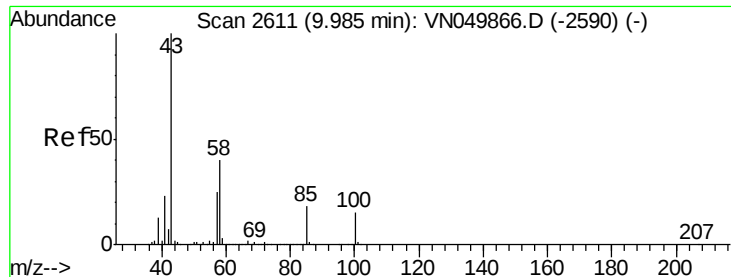
#50
Toluene-d8
Concen: 43.68 ug/l
RT: 10.09 min Scan# 2644
Delta R.T. -0.00 min
Lab File: VN049962.D
Acq: 20 Jul 2018 15:03

Tgt Ion: 98 Resp: 1241704
Ion Ratio Lower Upper
98 100
100 63.3 51.7 77.5



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





#51

4-Methyl-2-Pentanone

Concen: 0.28 ug/l

RT: 9.99 min Scan# 2611

Delta R.T. -0.00 min

Lab File: VN049962.D

Acq: 20 Jul 2018 15:03

Instrument :

MSVOA_N

ClientSampleId :

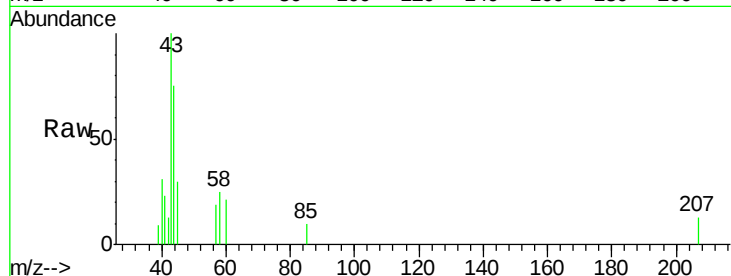
PB111289ZHE#02

Tot Ion: 43 Resp: 1924

Ion Ratio Lower Upper

43 100

58 34.1 31.8 47.8



Abundance Ion 43.00 (42.70 to 43.70): VN049866.D (-2590) (-)

Ion 58.00 (57.70 to 58.70): VN049866.D (-2590) (-)

9.99

1500

1000

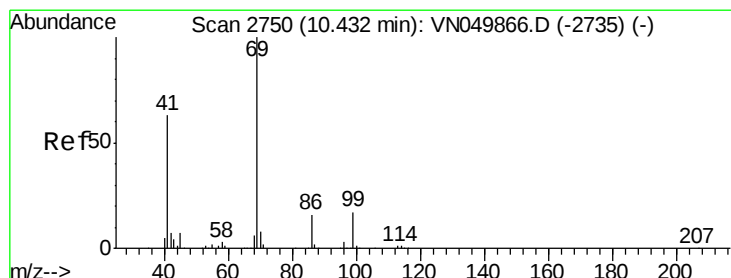
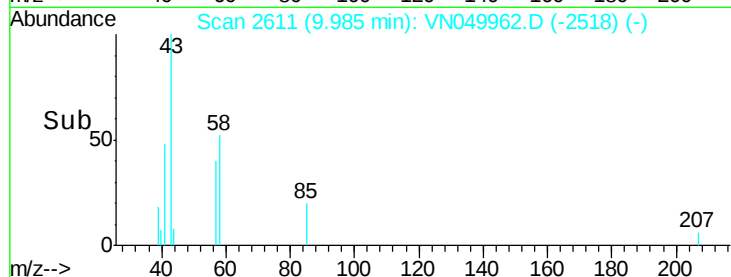
500

0

9.95

10.00

Time-->



#56

Ethyl methacrylate

Concen: 2.35 ug/l

RT: 10.23 min Scan# 2688

Delta R.T. -0.20 min

Lab File: VN049962.D

Acq: 20 Jul 2018 15:03

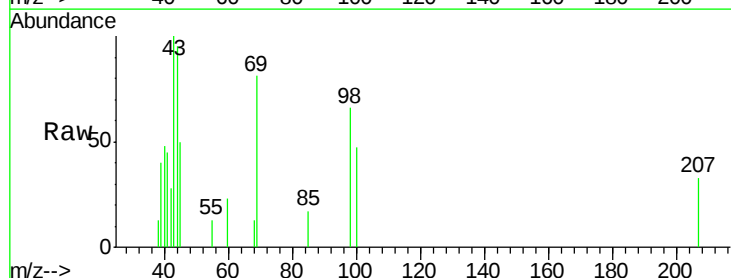
Tgt Ion: 69 Resp: 2126

Ion Ratio Lower Upper

69 100

41 43.6 51.6 77.4#

39 60.5 25.8 38.8#



Abundance Ion 69.00 (68.70 to 69.70): VN049866.D (-2735) (-)

Ion 41.00 (40.70 to 41.70): VN049866.D (-2735) (-)

Ion 39.00 (38.70 to 39.70): VN049866.D (-2735) (-)

10.23

1200

1000

800

600

400

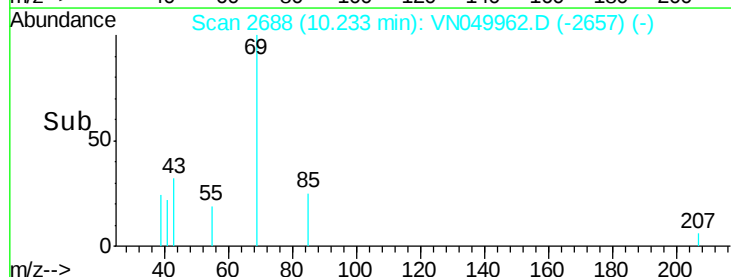
200

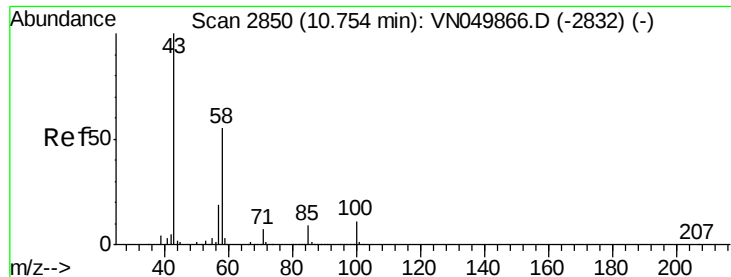
0

10.20

10.25

Time-->





#59

2-Hexanone

Concen: 4.42 ug/l

RT: 10.77 min Scan# 2855

Delta R.T. 0.02 min

Lab File: VN049962.D

Acq: 20 Jul 2018 15:03

Instrument :

MSVOA_N

ClientSampleId :

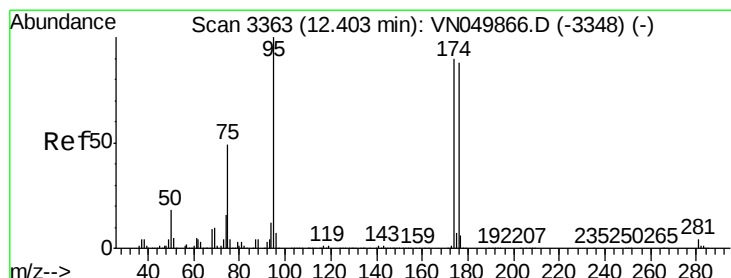
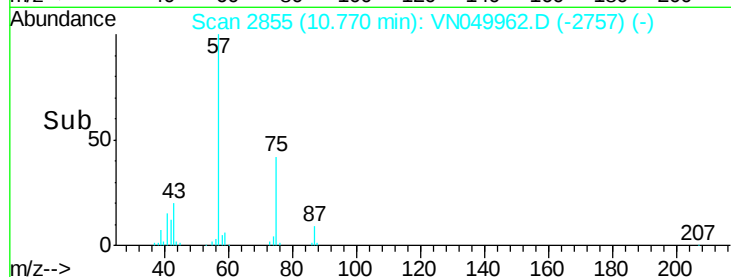
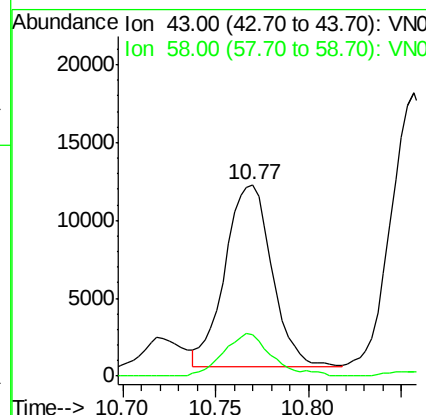
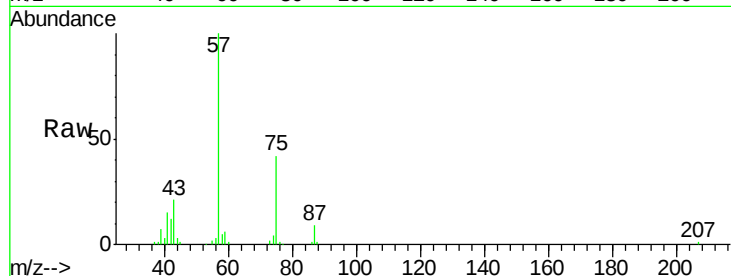
PB111289ZHE#02

Tot Ion: 43 Resp: 20584

Ion Ratio Lower Upper

43 100

58 24.0 27.8 83.4#



#62

4-Bromofluorobenzene

Concen: 34.32 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.00 min

Lab File: VN049962.D

Acq: 20 Jul 2018 15:03

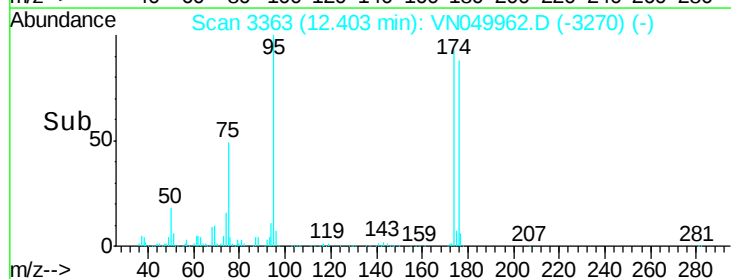
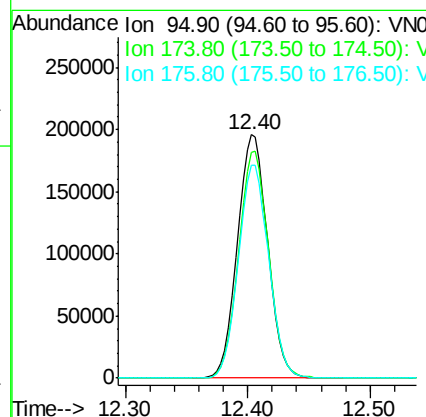
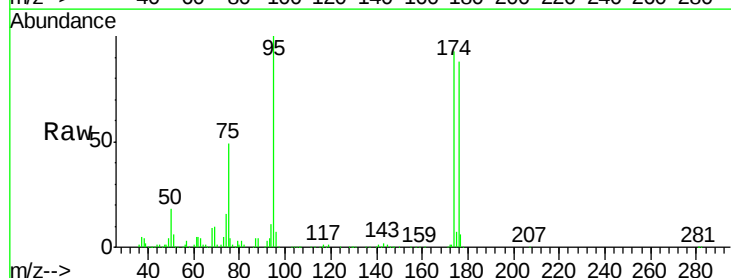
Tgt Ion: 95 Resp: 335971

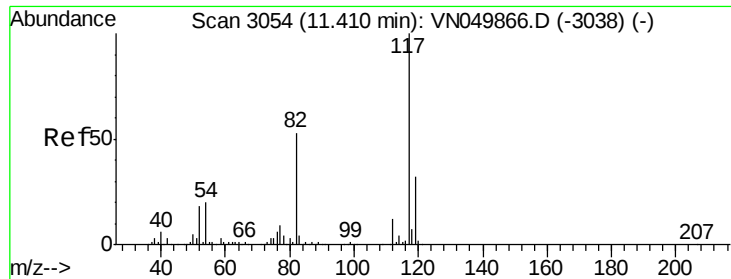
Ion Ratio Lower Upper

95 100

174 92.7 0.0 179.6

176 87.8 0.0 174.0

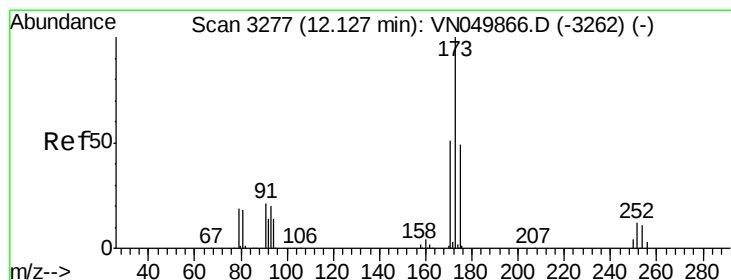
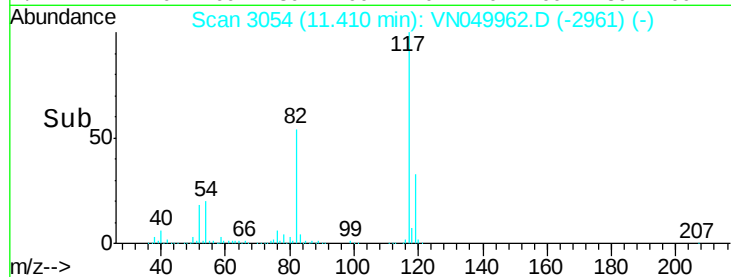
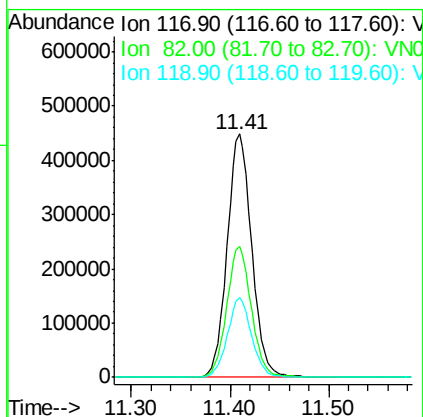
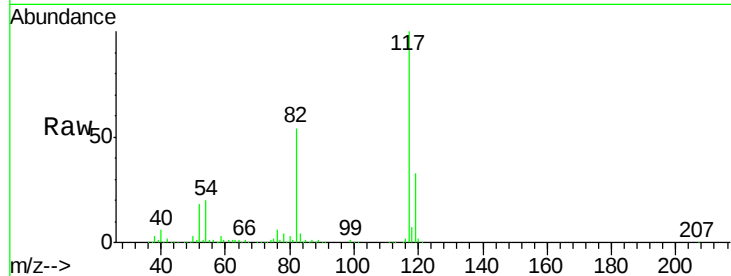




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. -0.00 min
Lab File: VN049962.D
Acq: 20 Jul 2018 15:03

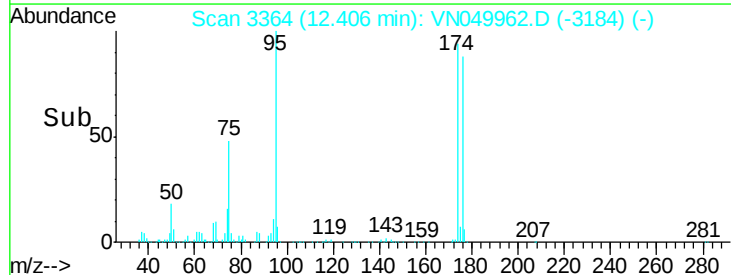
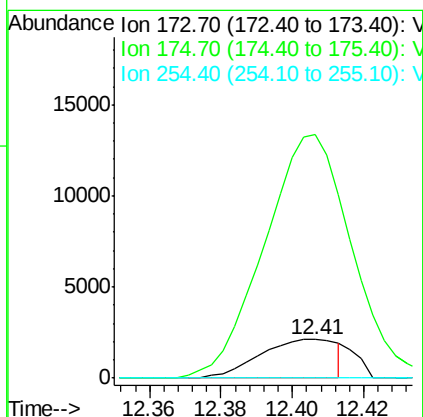
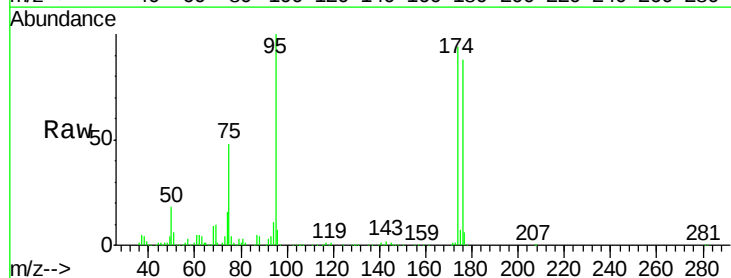
Instrument :
MSVOA_N
ClientSampleId :
PB111289ZHE#02

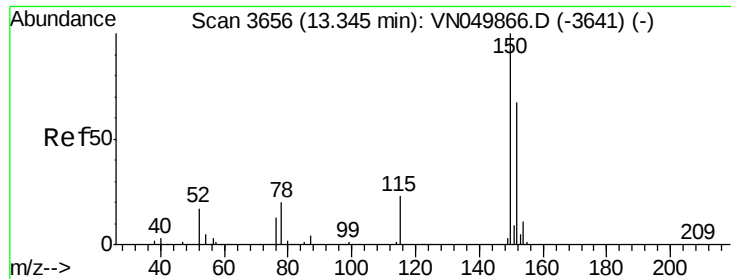
Tot Ion:117 Resp: 783649
Ion Ratio Lower Upper
117 100
82 53.8 41.9 62.9
119 32.5 25.4 38.2



#71
Bromoform
Concen: 0.59 ug/l
RT: 12.41 min Scan# 3364
Delta R.T. 0.28 min
Lab File: VN049962.D
Acq: 20 Jul 2018 15:03

Tgt Ion:173 Resp: 3204
Ion Ratio Lower Upper
173 100
175 575.5 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: VN049962.D

Acq: 20 Jul 2018 15:03

Instrument :

MSVOA_N

ClientSampleId :

PB111289ZHE#02

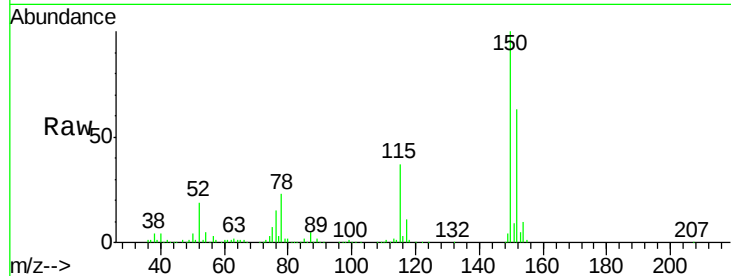
Tot Ion:152 Resp: 275838

Ion Ratio Lower Upper

152 100

115 56.6 28.1 84.2

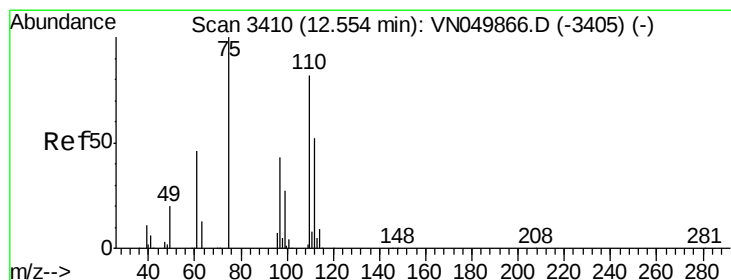
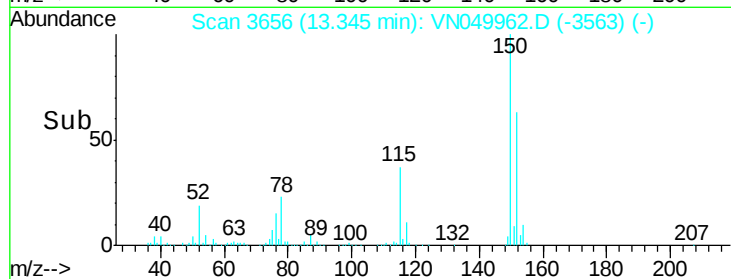
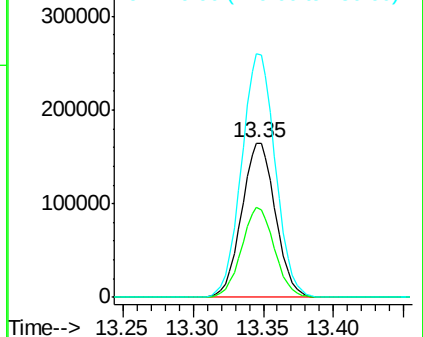
150 157.7 0.0 347.6



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: 31.62 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN049962.D

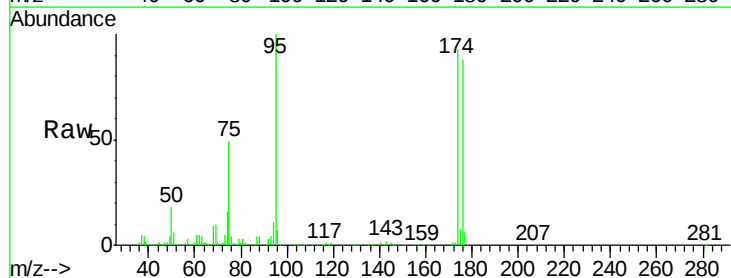
Acq: 20 Jul 2018 15:03

Tgt Ion: 75 Resp: 163595

Ion Ratio Lower Upper

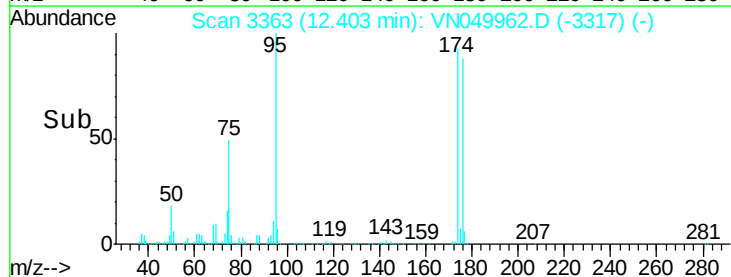
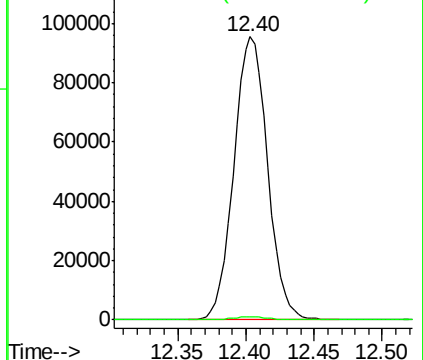
75 100

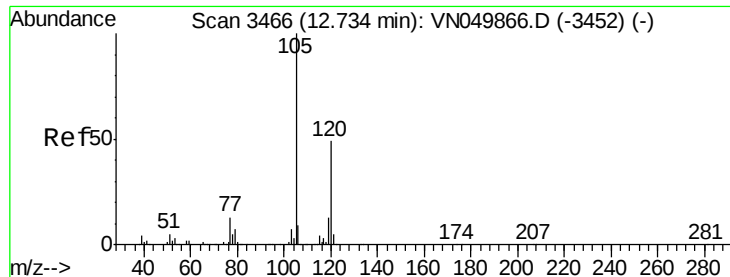
77 1.2 0.0 0.0#



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: 0.26 ug/l

RT: 12.73 min Scan# 3466

Delta R.T. -0.00 min

Lab File: VN049962.D

Acq: 20 Jul 2018 15:03

Instrument :

MSVOA_N

ClientSampleId :

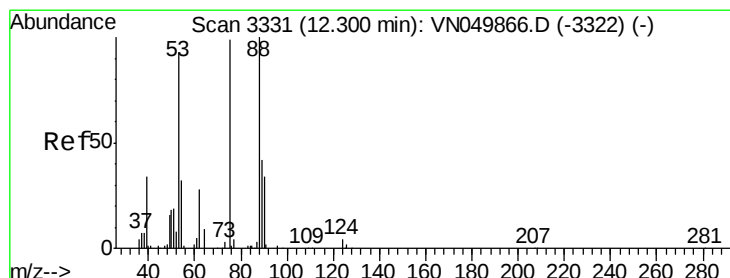
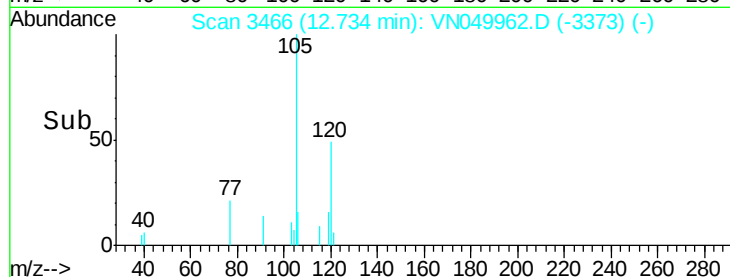
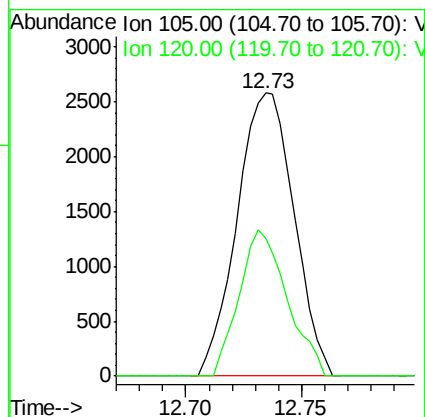
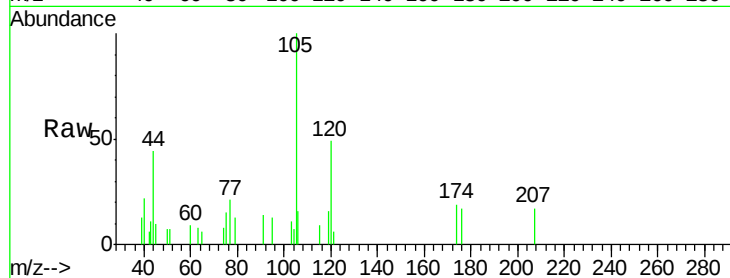
PB111289ZHE#02

Tot Ion:105 Resp: 4401

Ion Ratio Lower Upper

105 100

120 43.5 24.3 72.8



#81

trans-1,4-Dichloro-2-butene

Concen: 98.86 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN049962.D

Acq: 20 Jul 2018 15:03

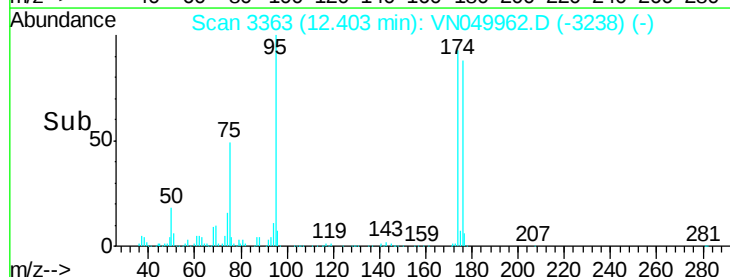
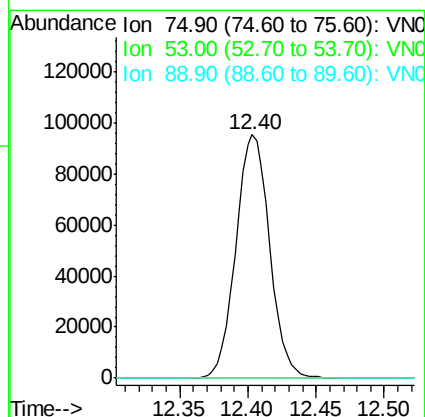
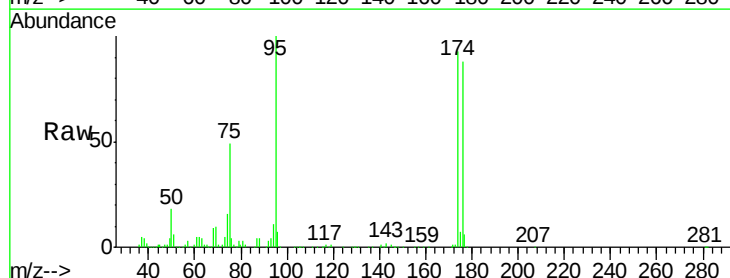
Tgt Ion: 75 Resp: 163595

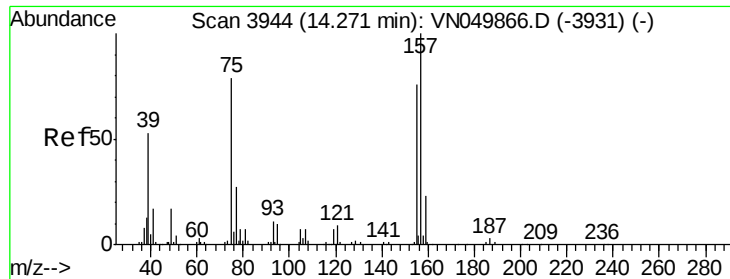
Ion Ratio Lower Upper

75 100

53 0.2 73.9 110.9#

89 0.0 35.9 53.9#

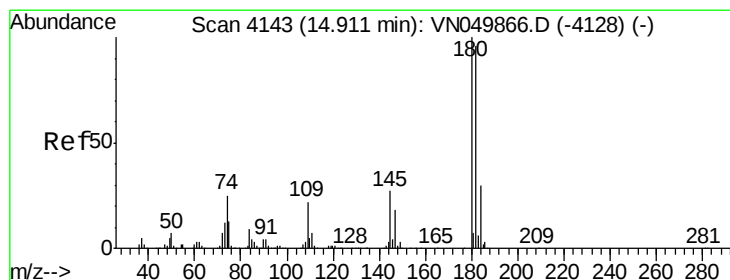
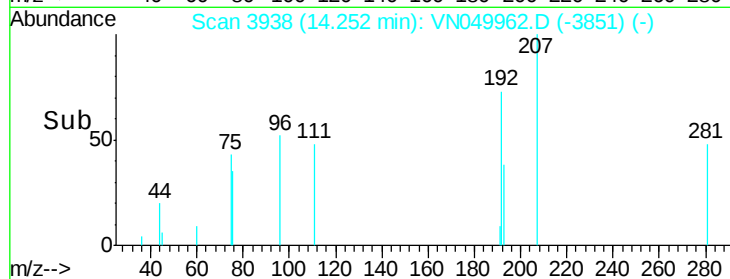
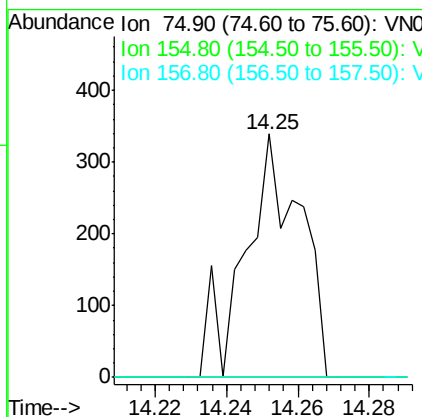
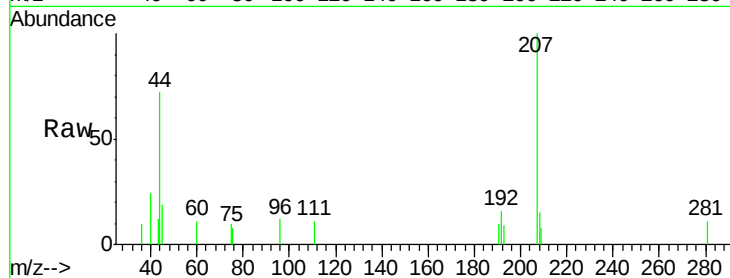




#92
 1,2-Dibromo-3-Chloropropane
 Concen: 0.38 ug/l
 RT: 14.25 min Scan# 3938
 Delta R.T. -0.02 min
 Lab File: VN049962.D
 Acq: 20 Jul 2018 15:03

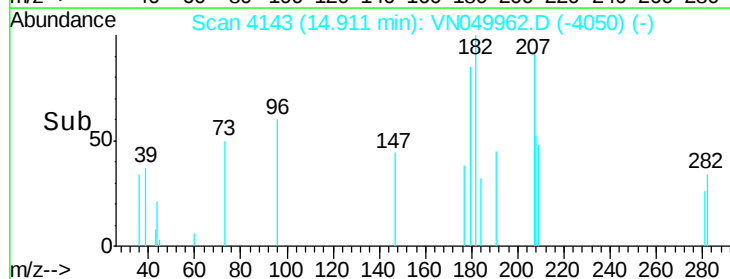
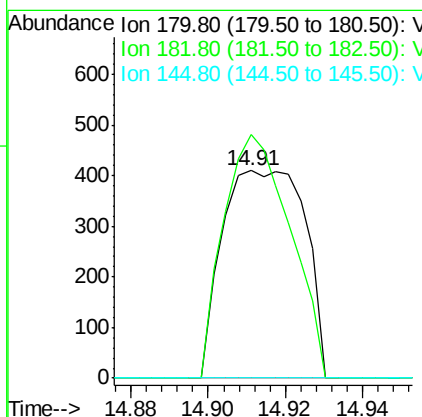
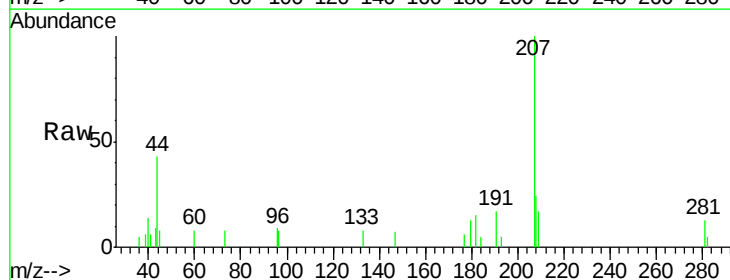
Instrument :
 MSVOA_N
 ClientSampleId :
 PB111289ZHE#02

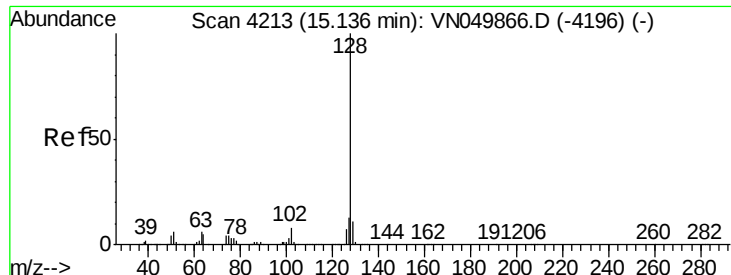
Tot Ion: 75 Resp: 365
 Ion Ratio Lower Upper
 75 100
 155 0.0 45.7 137.1#
 157 0.0 56.9 170.7#



#93
 1,2,4-Trichlorobenzene
 Concen: 3.58 ug/l
 RT: 14.91 min Scan# 4143
 Delta R.T. 0.00 min
 Lab File: VN049962.D
 Acq: 20 Jul 2018 15:03

Tgt Ion: 180 Resp: 608
 Ion Ratio Lower Upper
 180 100
 182 94.6 47.3 141.9
 145 0.0 14.4 43.0#





#95

Naphthalene

Concen: 4.63 ug/l

RT: 15.14 min Scan# 4215

Delta R.T. 0.01 min

Lab File: VN049962.D

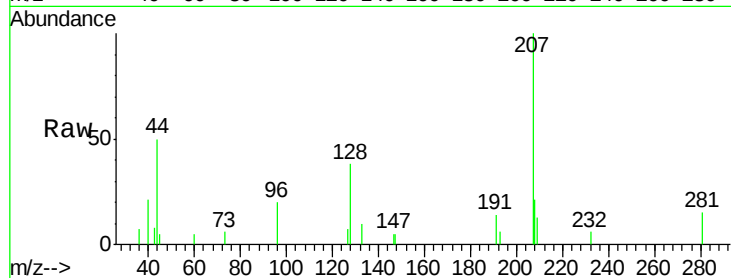
Acq: 20 Jul 2018 15:03

Instrument :

MSVOA_N

ClientSampleId :

PB111289ZHE#02



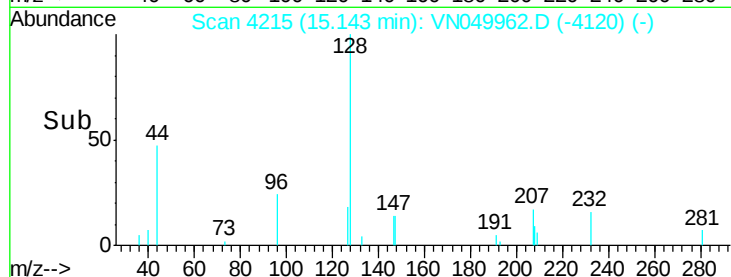
Tot Ion:128 Resp: 1943

Ion Ratio Lower Upper

128 100

127 8.7 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

