

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN072018\
 Data File : VN049963.D
 Acq On : 20 Jul 2018 15:29
 Operator : MD\SY
 Sample : PB111289ZHE#03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB111289ZHE#03

Quant Time: Jul 20 23:47:21 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	557233	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	940120	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	795475	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	293445	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	409074	53.41	ug/l	0.00
Spiked Amount			Recovery	=	106.82%	
35) Dibromofluoromethane	7.59	113	361371	45.79	ug/l	0.00
Spiked Amount			Recovery	=	91.58%	
50) Toluene-d8	10.09	98	1254222	43.62	ug/l	0.00
Spiked Amount			Recovery	=	87.24%	
62) 4-Bromofluorobenzene	12.40	95	348879	35.23	ug/l	0.00
Spiked Amount			Recovery	=	70.46%	

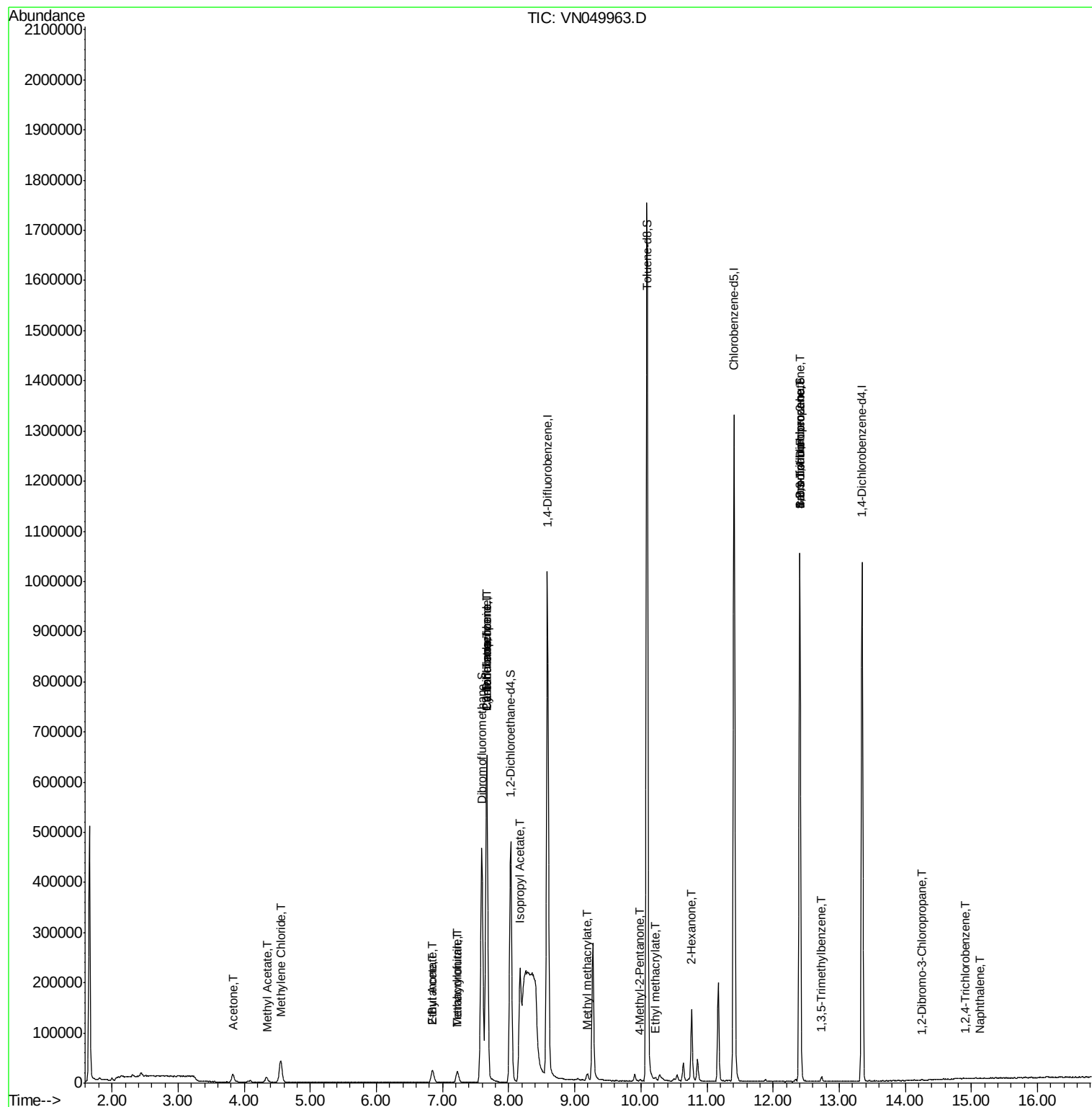
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.57	94	1031	Below Cal	#	74
16) Acetone	3.83	43	29321	14.79	ug/l	95
18) Methyl Acetate	4.34	43	19264	2.30	ug/l	# 70
20) Methylene Chloride	4.55	84	33515	4.44	ug/l	94
25) 2-Butanone	6.85	43	36379	12.84	ug/l	94
29) Tetrahydrofuran	7.22	42	18037	10.10	ug/l	96
31) Cyclohexane	7.67	56	10523	1.03	ug/l	# 1
36) 1,1-Dichloropropene	7.67	75	40082	3.83	ug/l	# 49
37) Ethyl Acetate	6.85	43	36379	5.07	ug/l	# 68
38) Carbon Tetrachloride	7.67	117	52027	4.65	ug/l	# 16
41) Methacrylonitrile	7.22	41	11407	3.17	ug/l	# 45
43) Isopropyl Acetate	8.17	43	270336	21.56	ug/l	96
48) Methyl methacrylate	9.18	41	7093	1.13	ug/l	# 22
51) 4-Methyl-2-Pentanone	9.99	43	1794	0.26	ug/l	99
56) Ethyl methacrylate	10.23	69	2418	2.38	ug/l	# 66
59) 2-Hexanone	10.77	43	20733	4.40	ug/l	# 57
71) Bromoform	12.40	173	3421	0.62	ug/l	# 1
76) 1,2,3-Trichloropropane	12.40	75	171616	31.18	ug/l	# 100
80) 1,3,5-Trimethylbenzene	12.73	105	4058	0.23	ug/l	91
81) trans-1,4-Dichloro-2-buten	12.40	75	171616	97.49	ug/l	# 13
92) 1,2-Dibromo-3-Chloropropan	14.26	75	376	0.36	ug/l	# 1
93) 1,2,4-Trichlorobenzene	14.91	180	480	3.55	ug/l	# 29
95) Naphthalene	15.13	128	999	4.56	ug/l	# 79

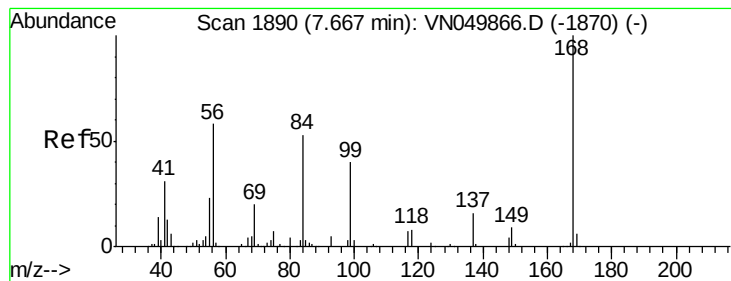
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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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: VN049963.D

Acq: 20 Jul 2018 15:29

Instrument :

MSVOA_N

ClientSampleId :

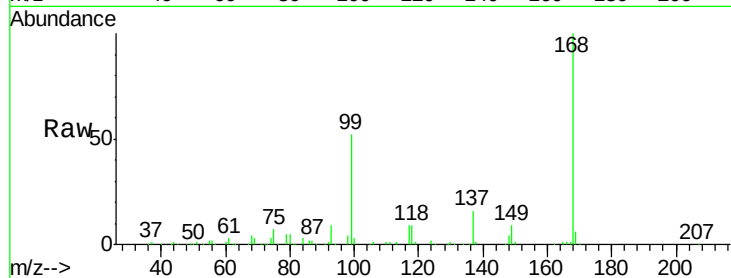
PB111289ZHE#03

Tot Ion:168 Resp: 557233

Ion Ratio Lower Upper

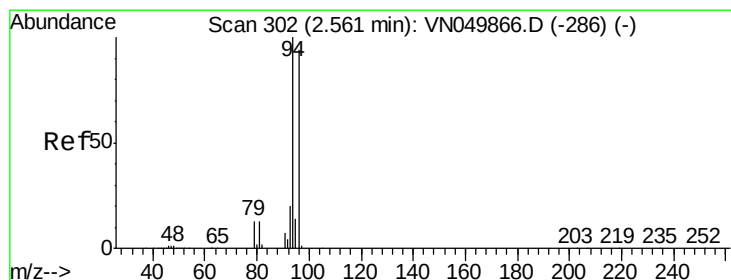
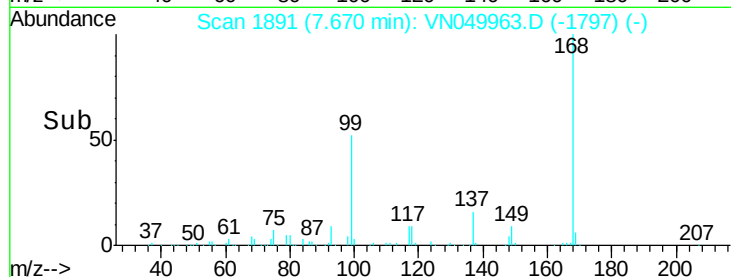
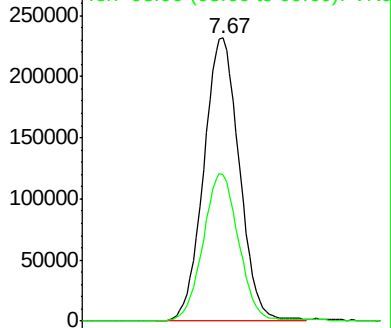
168 100

99 51.6 40.6 61.0



Abundance Ion 167.90 (167.60 to 168.60): VN0

Ion 98.90 (98.60 to 99.60): VN0



#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 305

Delta R.T. 0.01 min

Lab File: VN049963.D

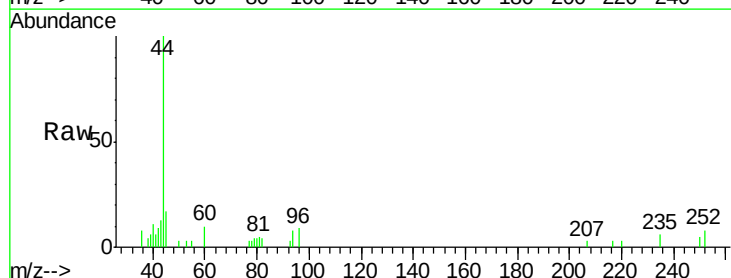
Acq: 20 Jul 2018 15:29

Tgt Ion: 94 Resp: 1031

Ion Ratio Lower Upper

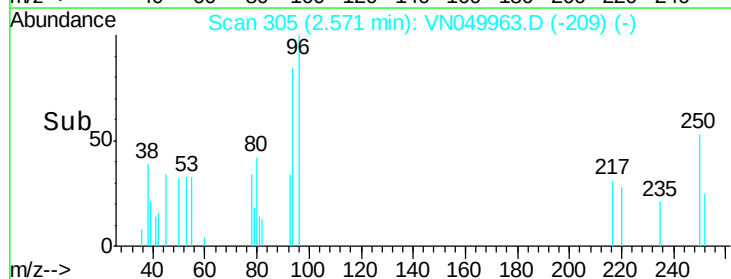
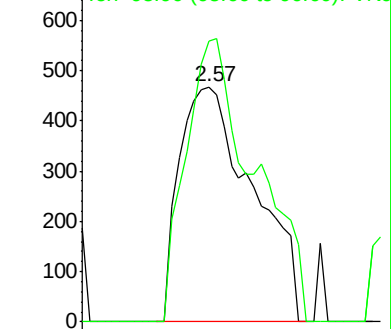
94 100

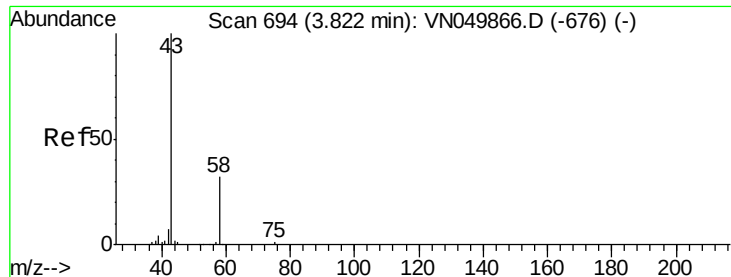
96 119.7 75.7 113.5#



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0





#16

Acetone

Concen: 14.79 ug/l

RT: 3.83 min Scan# 696

Delta R.T. 0.01 min

Lab File: VN049963.D

Acq: 20 Jul 2018 15:29

Instrument :

MSVOA_N

ClientSampleId :

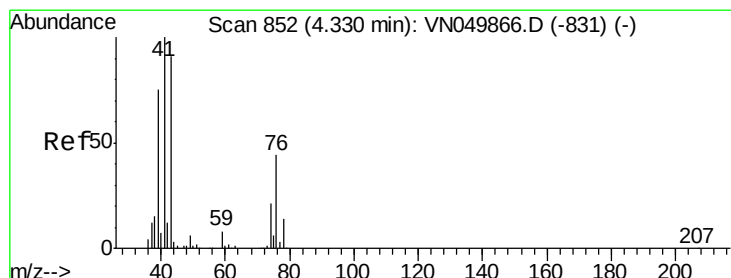
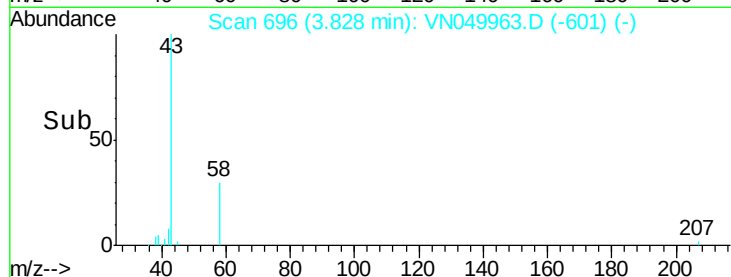
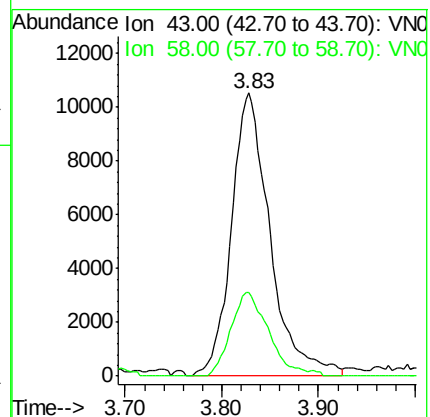
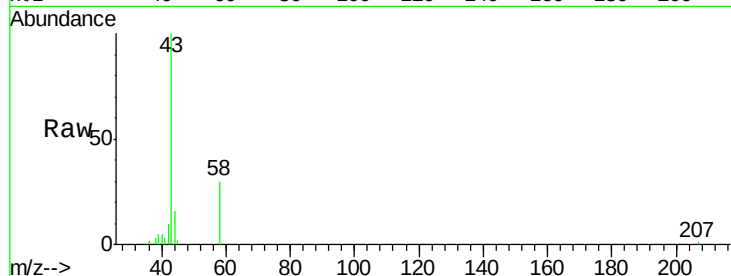
PB111289ZHE#03

Tot Ion: 43 Resp: 29321

Ion Ratio Lower Upper

43 100

58 29.8 25.9 38.9



#18

Methyl Acetate

Concen: 2.30 ug/l

RT: 4.34 min Scan# 854

Delta R.T. 0.01 min

Lab File: VN049963.D

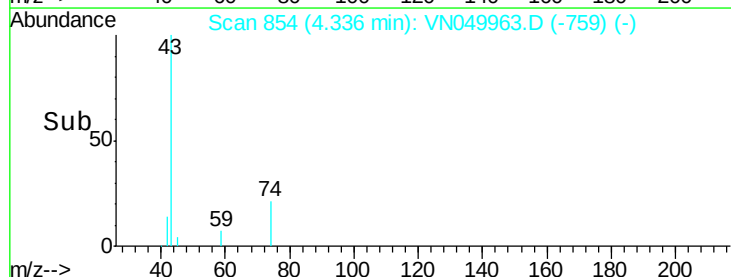
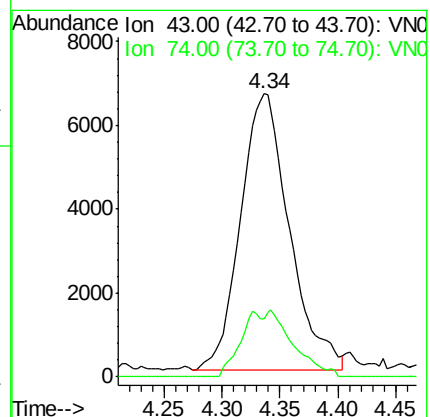
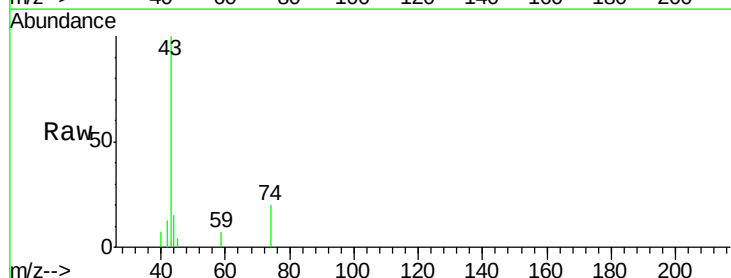
Acq: 20 Jul 2018 15:29

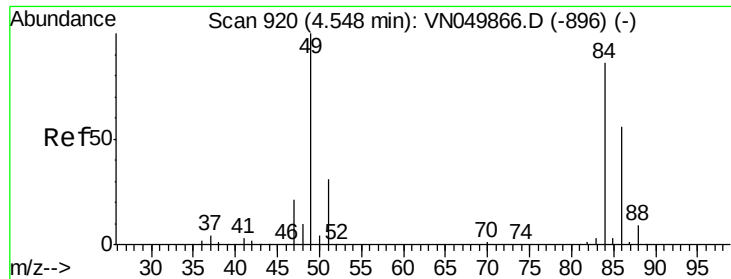
Tgt Ion: 43 Resp: 19264

Ion Ratio Lower Upper

43 100

74 9.9 19.8 29.8#

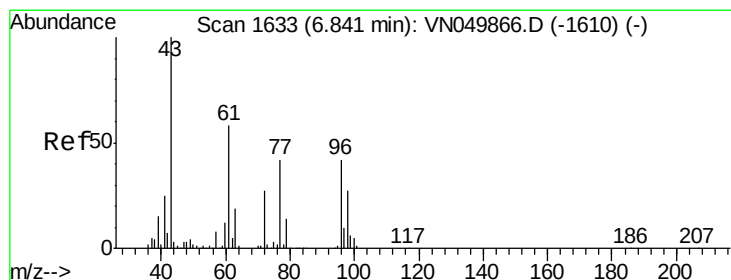
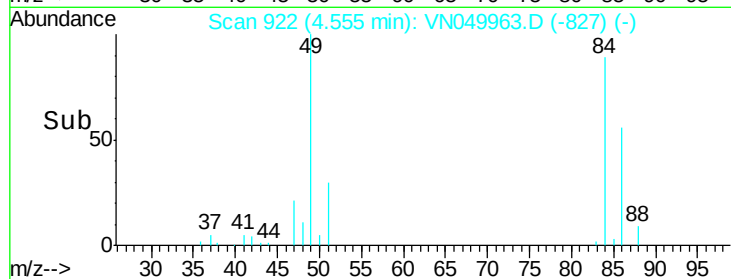
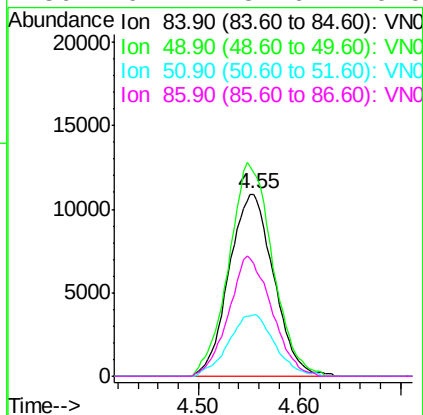
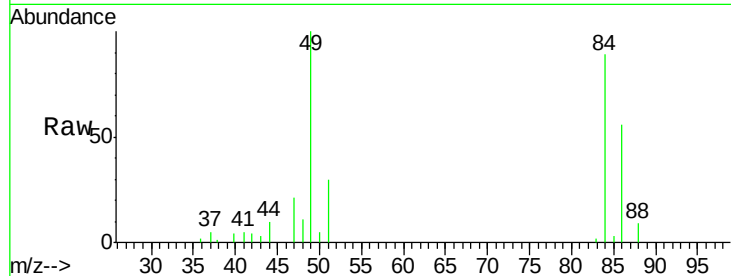




#20
Methvlene Chloride
Concen: 4.44 ug/l
RT: 4.55 min Scan# 922
Delta R.T. 0.01 min
Lab File: VN049963.D
Acq: 20 Jul 2018 15:29

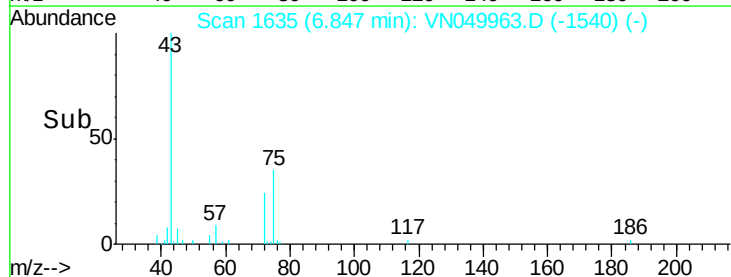
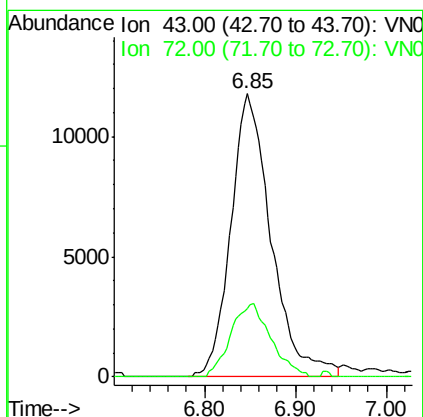
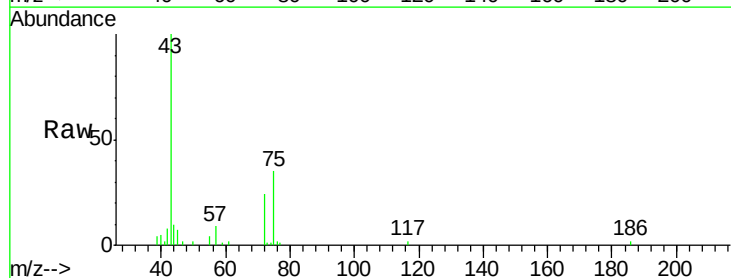
Instrument :
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ClientSampleId :
PB111289ZHE#03

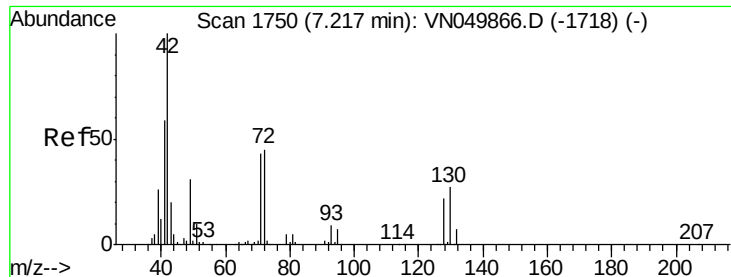
Tot Ion:	84	Resp:	33515
Ion	Ratio	Lower	Upper
84	100		
49	111.8	95.4	143.2
51	33.6	28.4	42.6
86	62.2	52.6	79.0



#25
2-Butanone
Concen: 12.84 ug/l
RT: 6.85 min Scan# 1635
Delta R.T. 0.01 min
Lab File: VN049963.D
Acq: 20 Jul 2018 15:29

Tgt Ion:	43	Resp:	36379
Ion	Ratio	Lower	Upper
43	100		
72	24.2	22.1	33.1

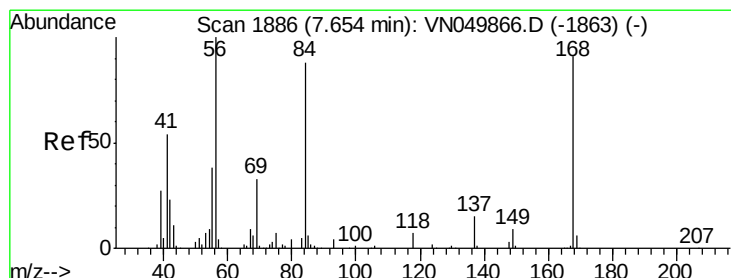
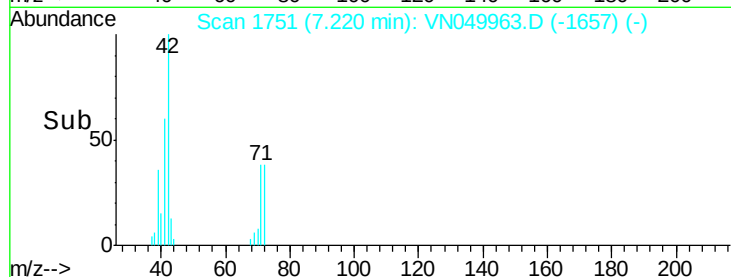
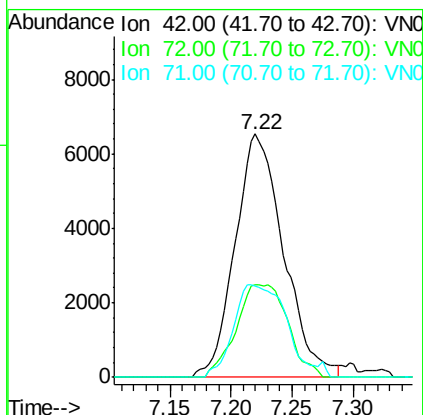
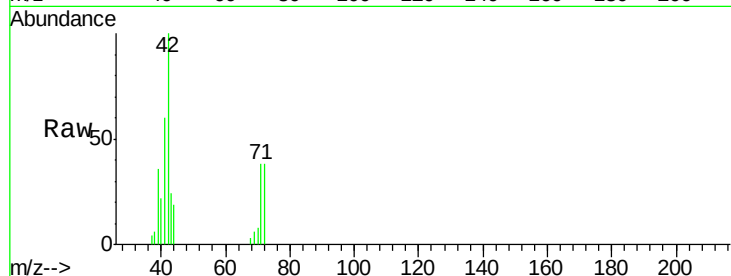




#29
Tetrahydrofuran
Concen: 10.10 ug/l
RT: 7.22 min Scan# 1751
Delta R.T. 0.00 min
Lab File: VN049963.D
Acq: 20 Jul 2018 15:29

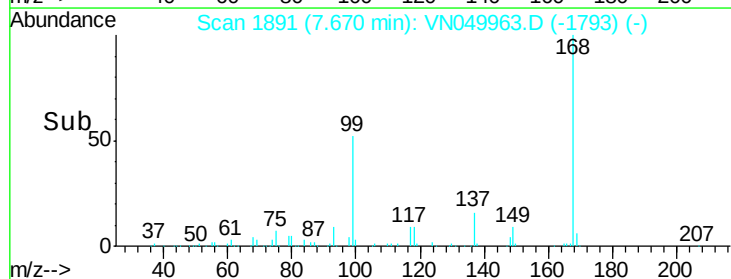
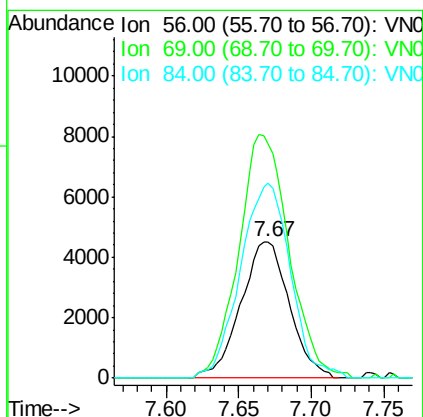
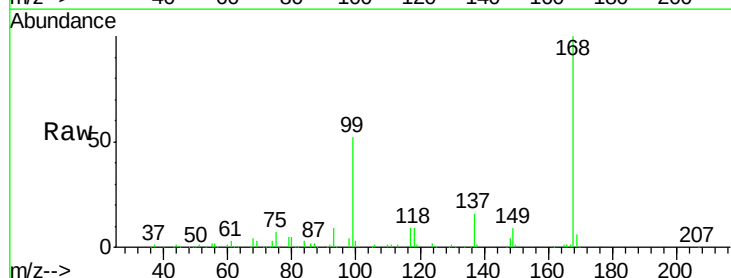
Instrument :
MSVOA_N
ClientSampleId :
PB111289ZHE#03

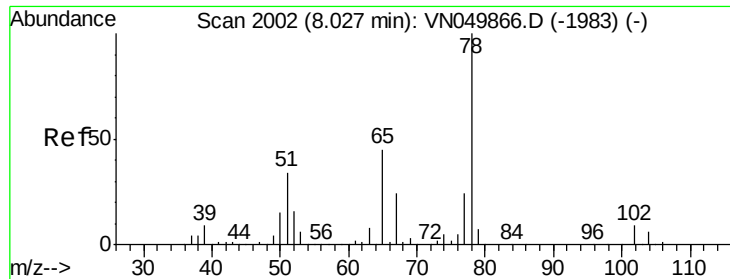
Tot Ion: 42 Resp: 18037
Ion Ratio Lower Upper
42 100
72 40.4 35.6 53.4
71 41.8 34.0 51.0



#31
Cyclohexane
Concen: 1.03 ug/l
RT: 7.67 min Scan# 1891
Delta R.T. 0.02 min
Lab File: VN049963.D
Acq: 20 Jul 2018 15:29

Tgt Ion: 56 Resp: 10523
Ion Ratio Lower Upper
56 100
69 171.9 26.6 40.0#
84 143.3 69.0 103.6#

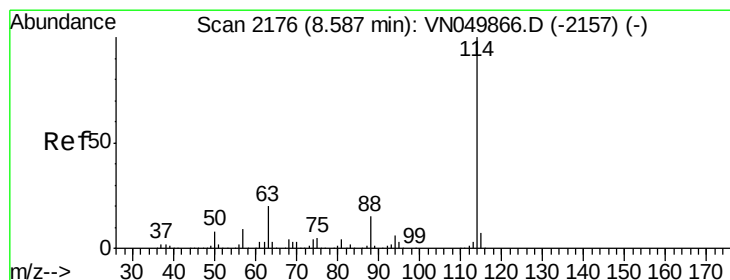
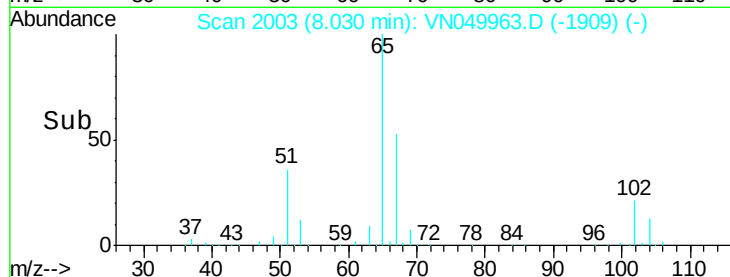
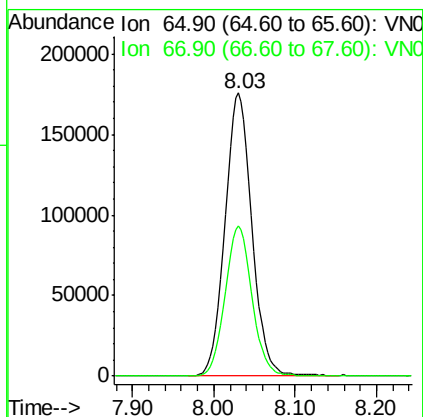
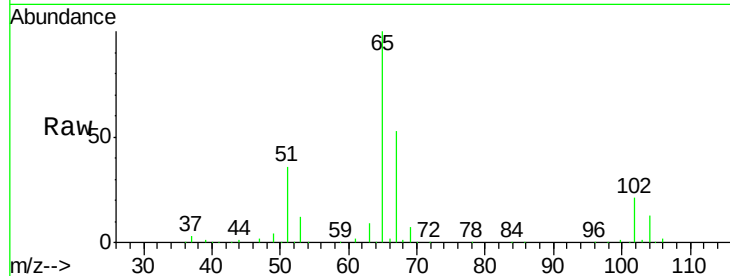




#33
 1,2-Dichloroethane-d4
 Concen: 53.41 ug/l
 RT: 8.03 min Scan# 2003
 Delta R.T. 0.00 min
 Lab File: VN049963.D
 Acq: 20 Jul 2018 15:29

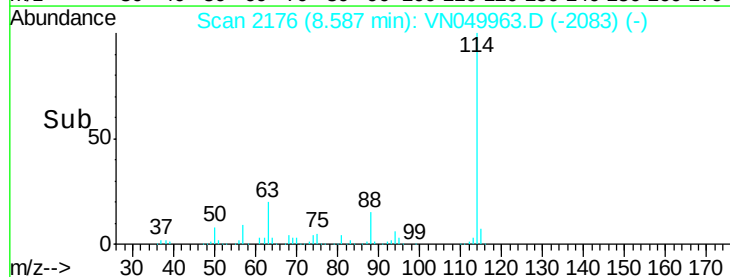
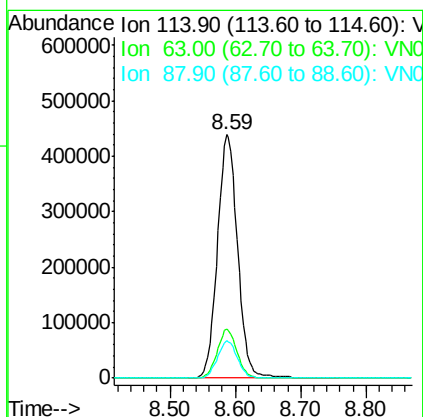
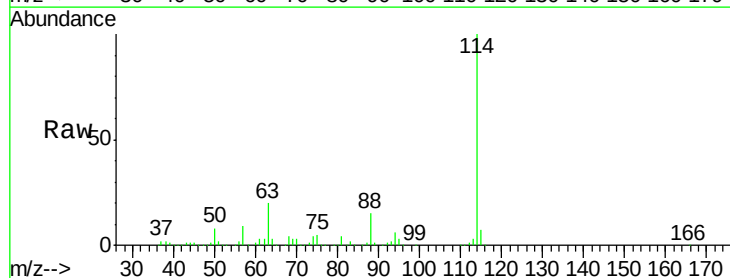
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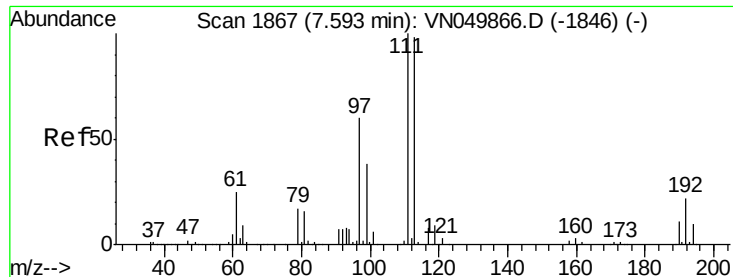
Tot Ion: 65 Resp: 409074
 Ion Ratio Lower Upper
 65 100
 67 52.9 0.0 107.2



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2176
 Delta R.T. -0.00 min
 Lab File: VN049963.D
 Acq: 20 Jul 2018 15:29

Tgt Ion: 114 Resp: 940120
 Ion Ratio Lower Upper
 114 100
 63 20.1 0.0 39.8
 88 15.3 0.0 30.6

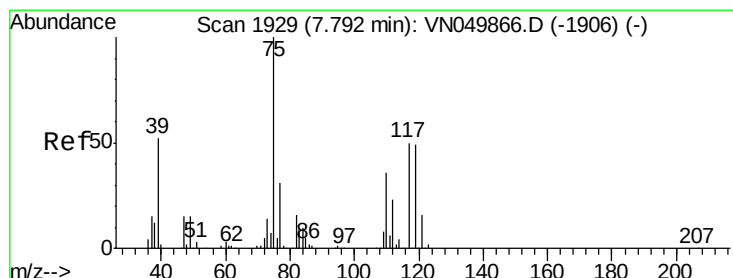
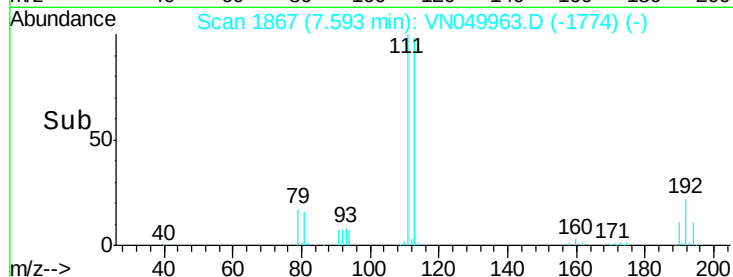
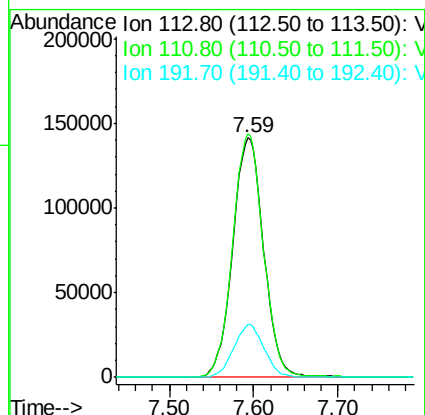
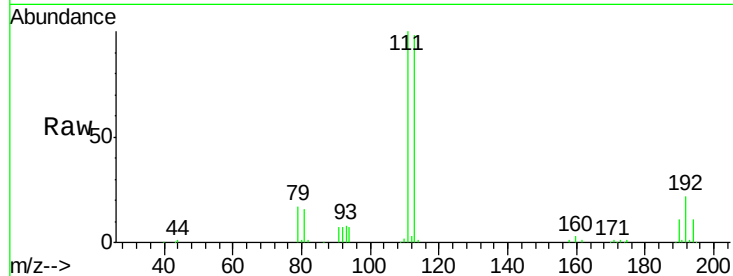




#35
Dibromofluoromethane
Concen: 45.79 ug/l
RT: 7.59 min Scan# 1867
Delta R.T. -0.00 min
Lab File: VN049963.D
Acq: 20 Jul 2018 15:29

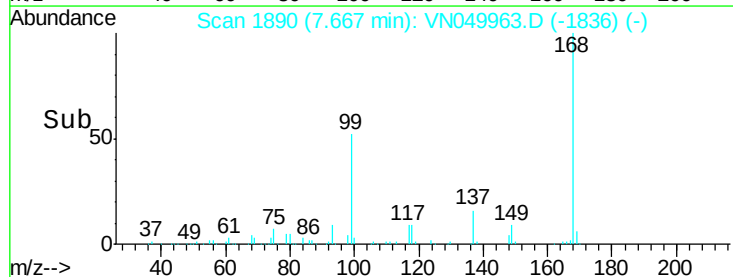
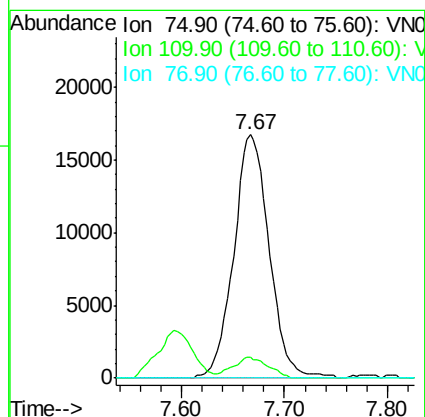
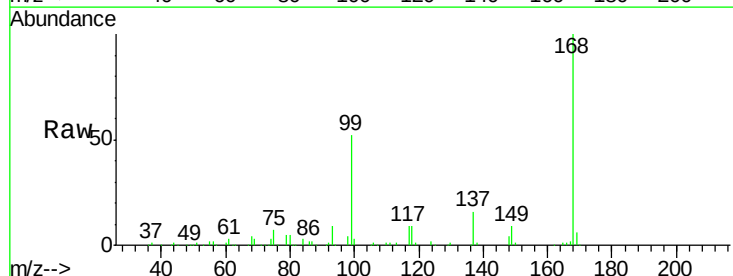
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PB111289ZHE#03

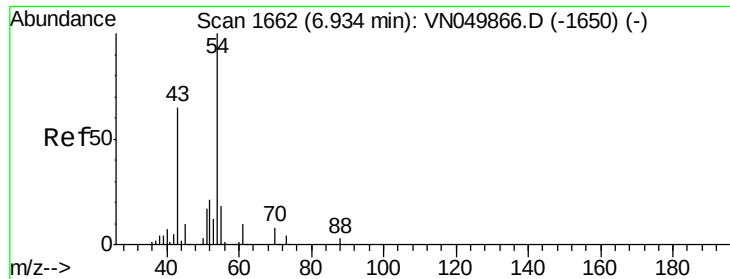
Tot Ion:113 Resp: 361371
Ion Ratio Lower Upper
113 100
111 100.8 81.8 122.8
192 21.7 17.8 26.6



#36
1,1-Dichloropropene
Concen: 3.83 ug/l
RT: 7.67 min Scan# 1890
Delta R.T. -0.13 min
Lab File: VN049963.D
Acq: 20 Jul 2018 15:29

Tgt Ion: 75 Resp: 40082
Ion Ratio Lower Upper
75 100
110 8.6 18.1 54.4#
77 0.0 24.9 37.3#

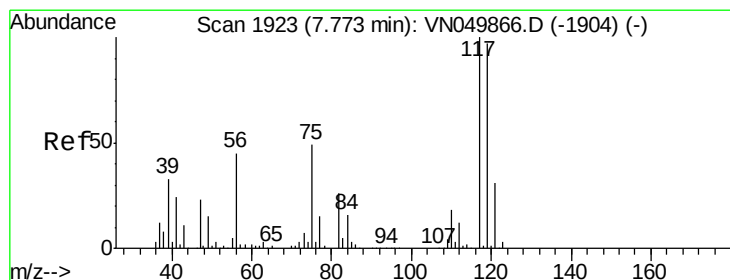
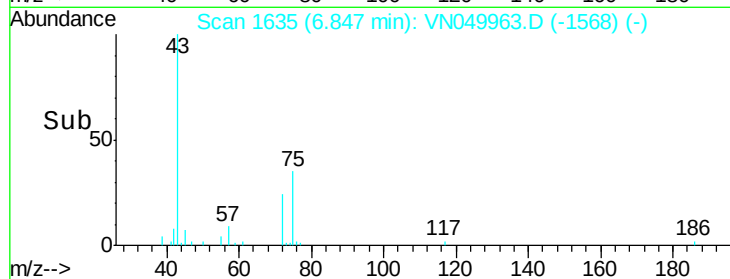
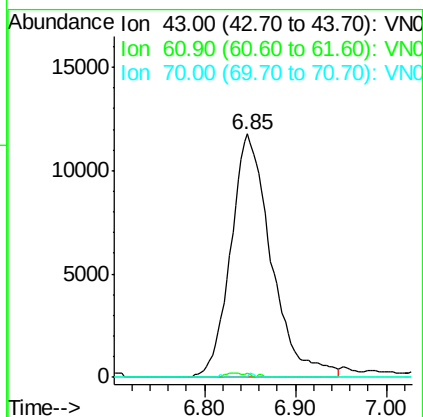
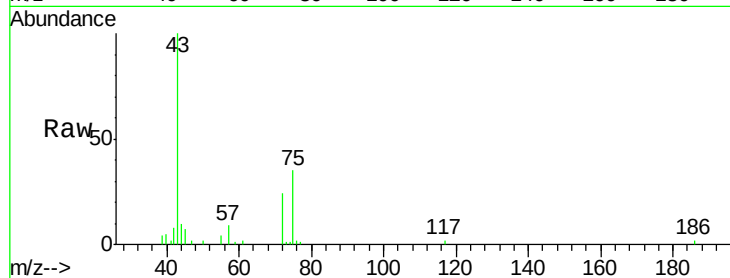




#37
Ethyl Acetate
Concen: 5.07 ug/l
RT: 6.85 min Scan# 1635
Delta R.T. -0.09 min
Lab File: VN049963.D
Acq: 20 Jul 2018 15:29

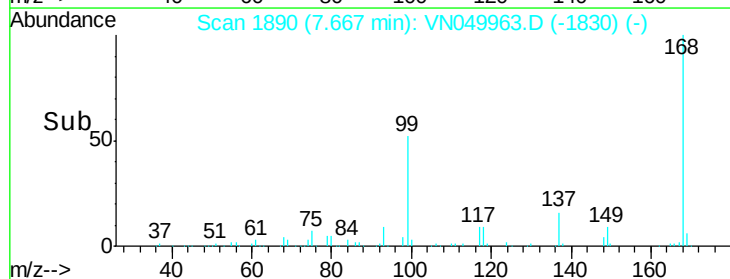
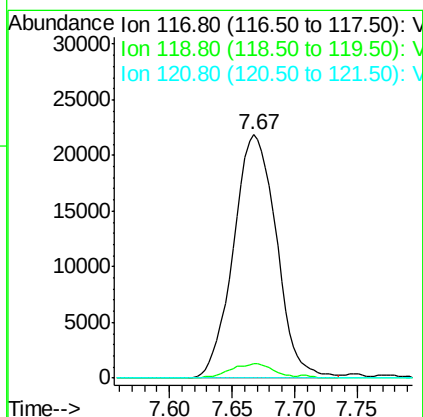
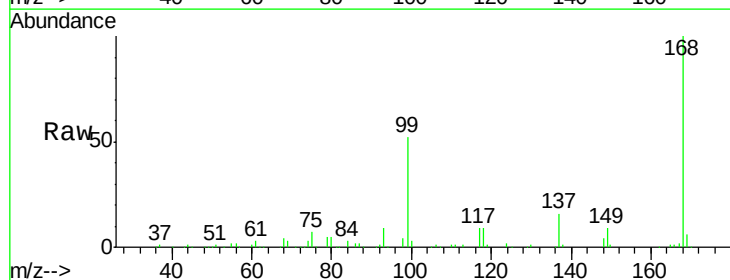
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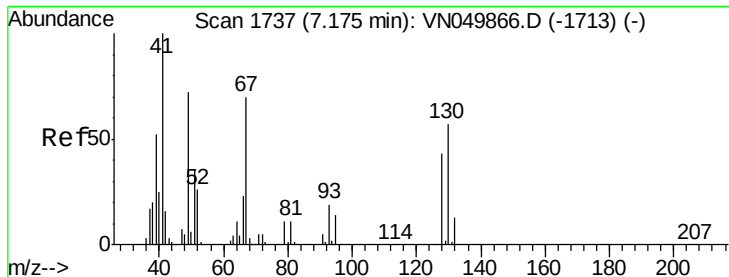
Tot Ion: 43 Resp: 36379
Ion Ratio Lower Upper
43 100
61 0.2 11.7 17.5#
70 0.2 8.4 12.6#



#38
Carbon Tetrachloride
Concen: 4.65 ug/l
RT: 7.67 min Scan# 1890
Delta R.T. -0.11 min
Lab File: VN049963.D
Acq: 20 Jul 2018 15:29

Tgt Ion: 117 Resp: 52027
Ion Ratio Lower Upper
117 100
119 5.8 77.2 115.8#
121 0.0 25.0 37.6#

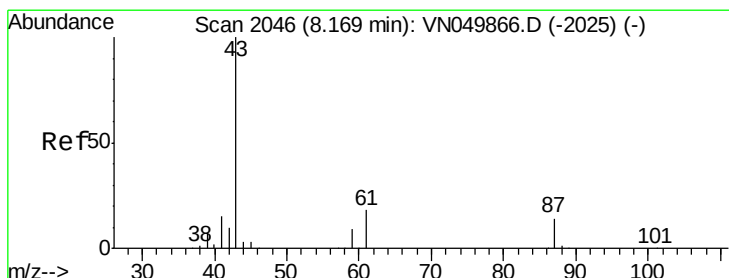
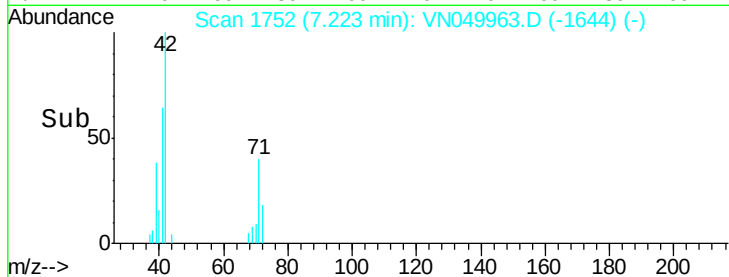
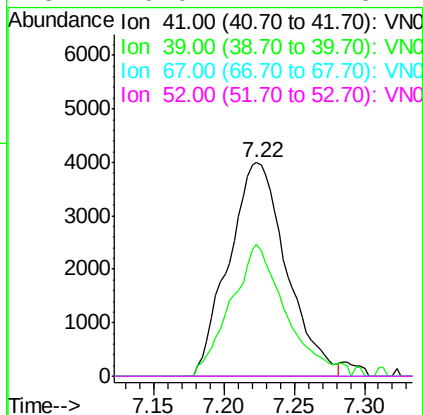
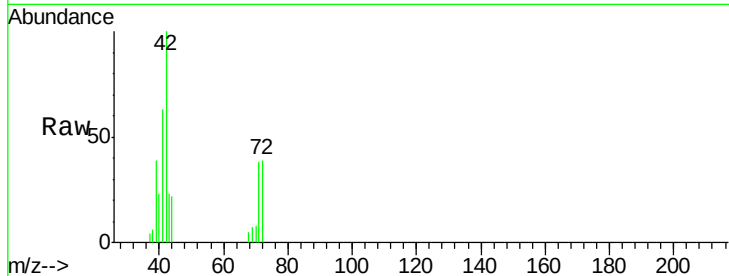




#41
Methacrylonitrile
Concen: 3.17 ug/l
RT: 7.22 min Scan# 1752
Delta R.T. 0.05 min
Lab File: VN049963.D
Acq: 20 Jul 2018 15:29

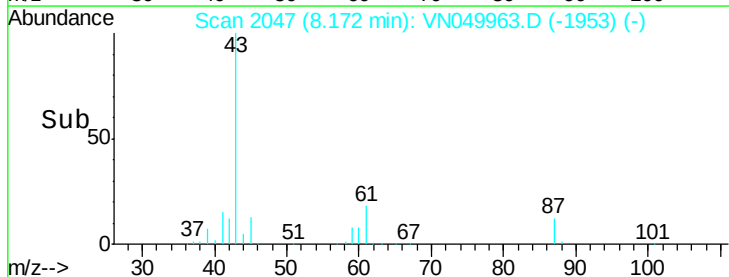
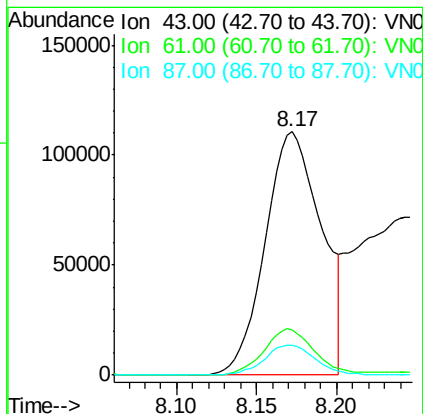
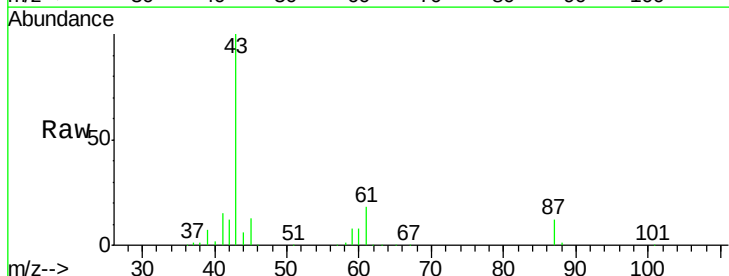
Instrument :
MSVOA_N
ClientSampleId :
PB111289ZHE#03

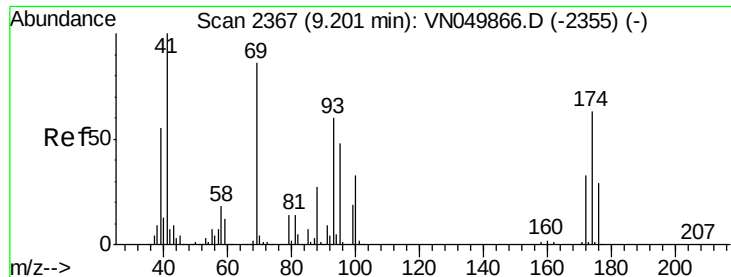
Tot Ion:	41	Resp:	11407
Ion	Ratio	Lower	Upper
41	100		
39	59.1	45.4	68.2
67	0.0	65.4	98.0#
52	0.0	24.7	37.1#



#43
Isopropyl Acetate
Concen: 21.56 ug/l
RT: 8.17 min Scan# 2047
Delta R.T. 0.00 min
Lab File: VN049963.D
Acq: 20 Jul 2018 15:29

Tgt Ion:	43	Resp:	270336
Ion	Ratio	Lower	Upper
43	100		
61	16.9	14.9	22.3
87	11.3	10.0	15.0

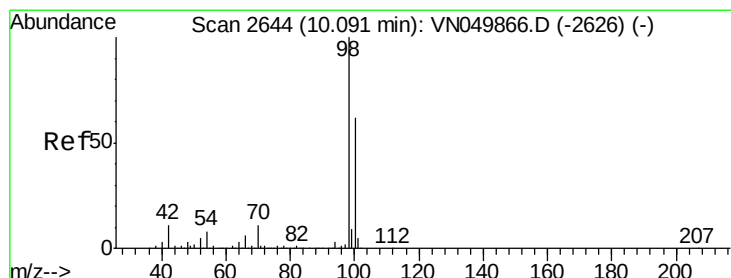
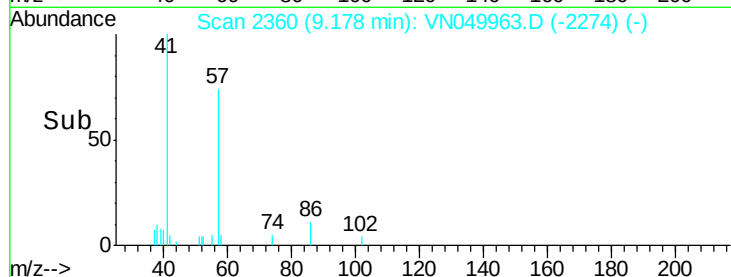
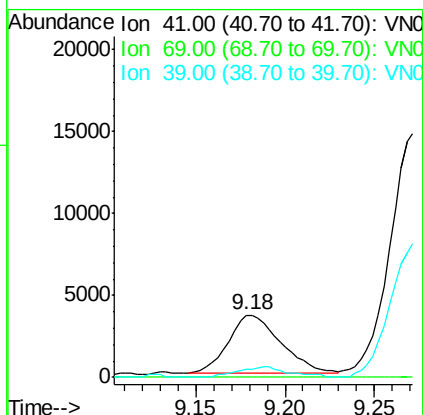
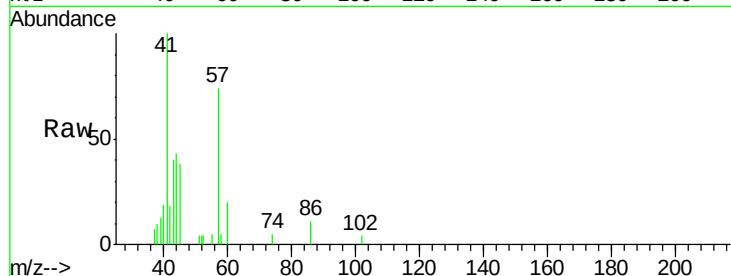




#48
Methvl methacrylate
Concen: 1.13 ug/l
RT: 9.18 min Scan# 2360
Delta R.T. -0.02 min
Lab File: VN049963.D
Acq: 20 Jul 2018 15:29

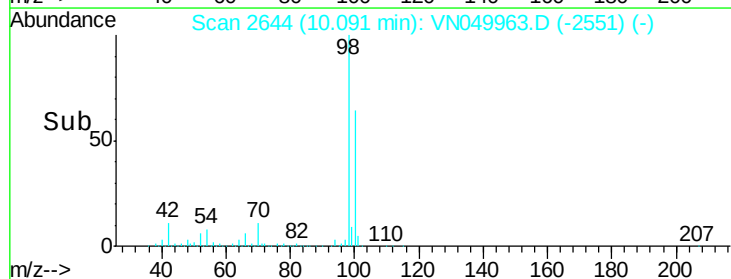
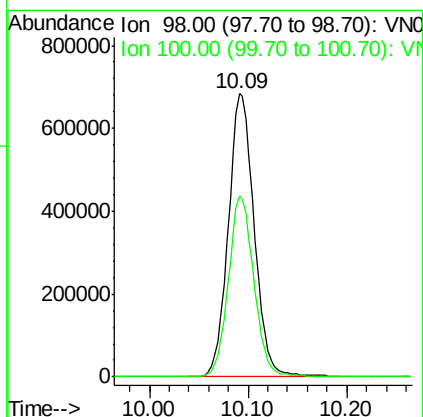
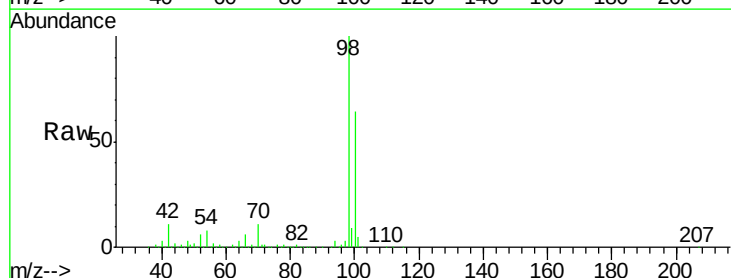
Instrument :
MSVOA_N
ClientSampleId :
PB111289ZHE#03

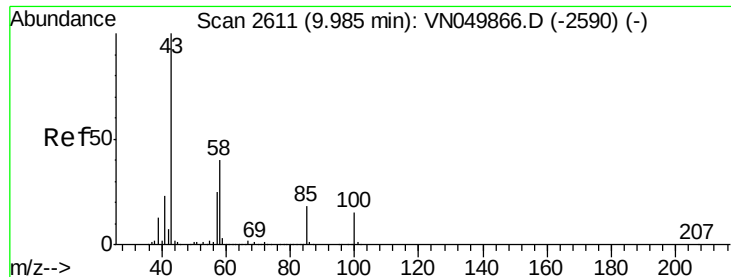
Tot Ion: 41 Resp: 7093
Ion Ratio Lower Upper
41 100
69 0.0 71.5 107.3#
39 18.3 44.7 67.1#



#50
Toluene-d8
Concen: 43.62 ug/l
RT: 10.09 min Scan# 2644
Delta R.T. -0.00 min
Lab File: VN049963.D
Acq: 20 Jul 2018 15:29

Tgt Ion: 98 Resp: 1254222
Ion Ratio Lower Upper
98 100
100 63.3 51.7 77.5





#51

4-Methyl-2-Pentanone

Concen: 0.26 ug/l

RT: 9.99 min Scan# 2612

Delta R.T. 0.00 min

Lab File: VN049963.D

Acq: 20 Jul 2018 15:29

Instrument :

MSVOA_N

ClientSampleId :

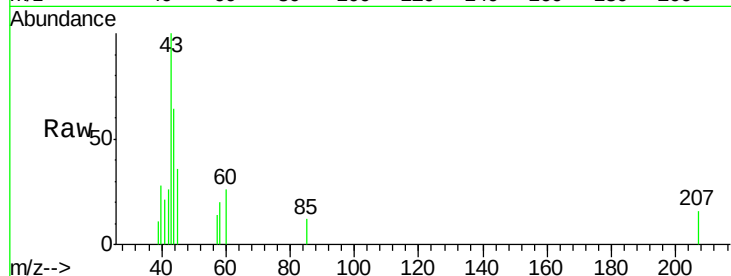
PB111289ZHE#03

Tot Ion: 43 Resp: 1794

Ion Ratio Lower Upper

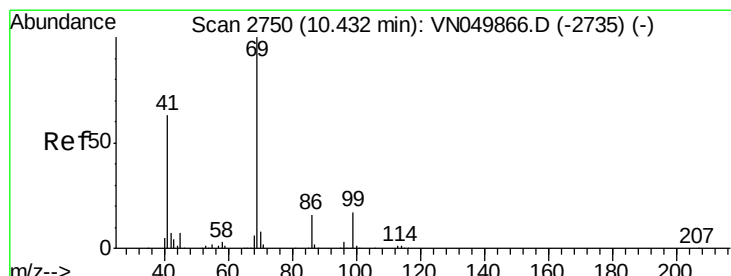
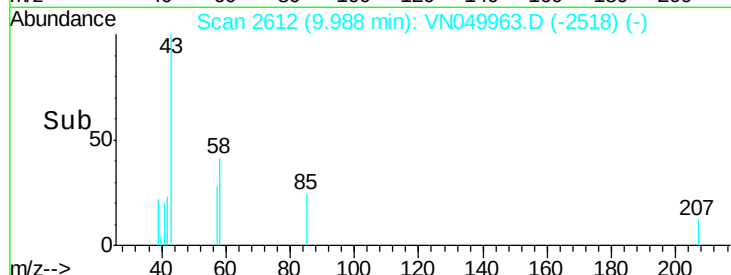
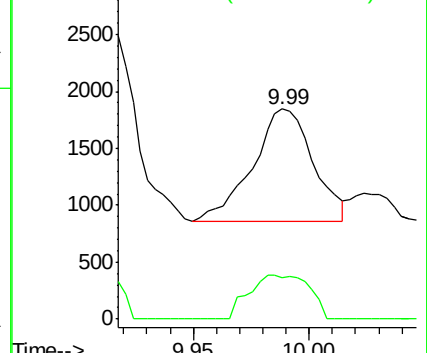
43 100

58 39.0 31.8 47.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#56

Ethyl methacrylate

Concen: 2.38 ug/l

RT: 10.23 min Scan# 2686

Delta R.T. -0.21 min

Lab File: VN049963.D

Acq: 20 Jul 2018 15:29

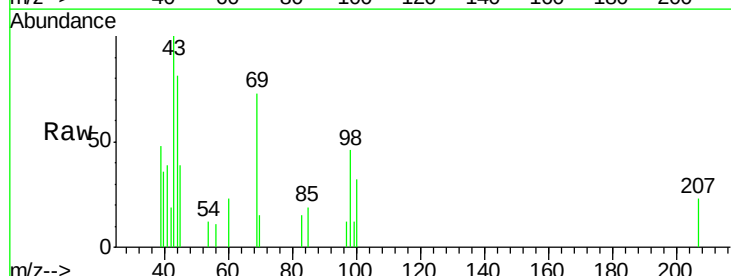
Tgt Ion: 69 Resp: 2418

Ion Ratio Lower Upper

69 100

41 41.4 51.6 77.4#

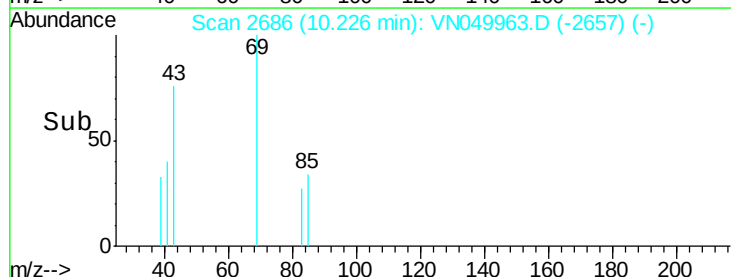
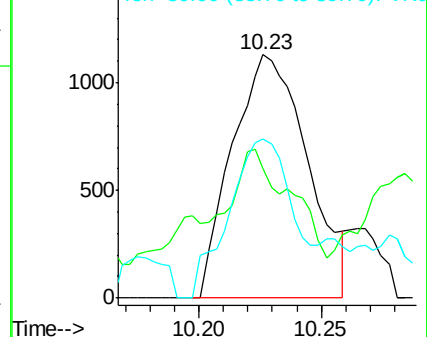
39 56.5 25.8 38.8#

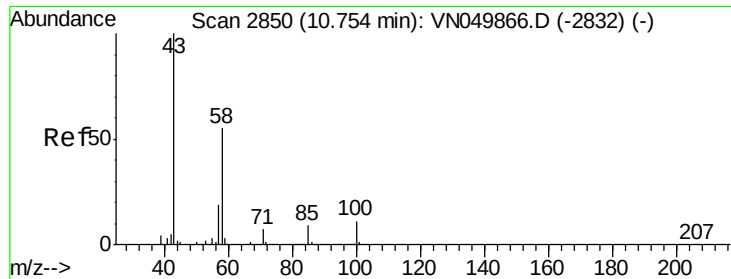


Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





#59

2-Hexanone

Concen: 4.40 ug/l

RT: 10.77 min Scan# 2854

Delta R.T. 0.01 min

Lab File: VN049963.D

Acq: 20 Jul 2018 15:29

Instrument :

MSVOA_N

ClientSampleId :

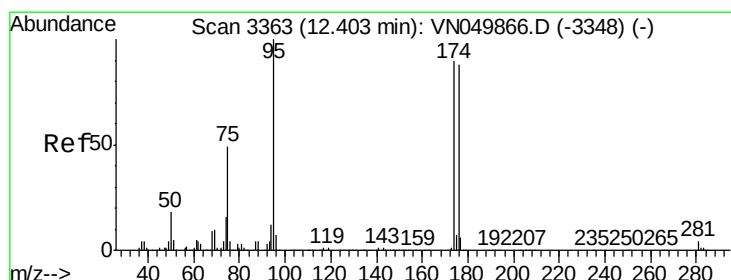
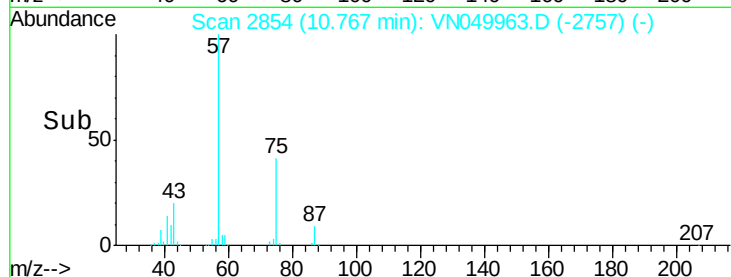
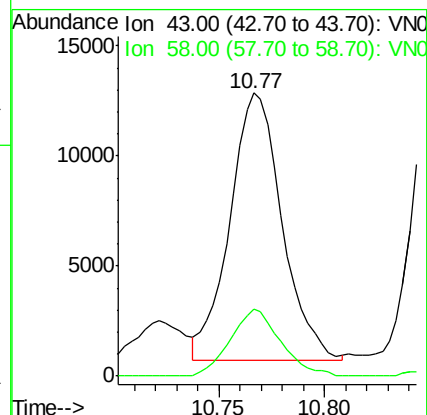
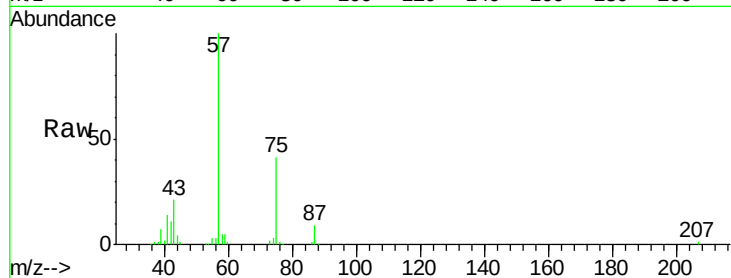
PB111289ZHE#03

Tot Ion: 43 Resp: 20733

Ion Ratio Lower Upper

43 100

58 24.5 27.8 83.4#



#62

4-Bromofluorobenzene

Concen: 35.23 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.00 min

Lab File: VN049963.D

Acq: 20 Jul 2018 15:29

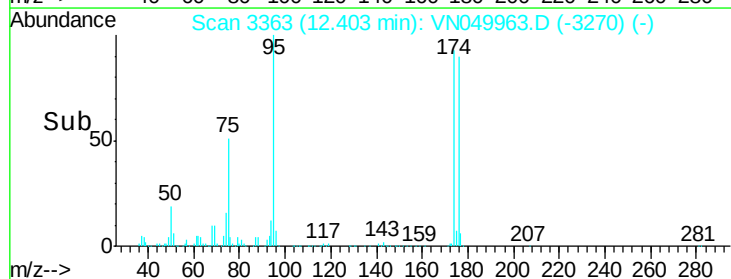
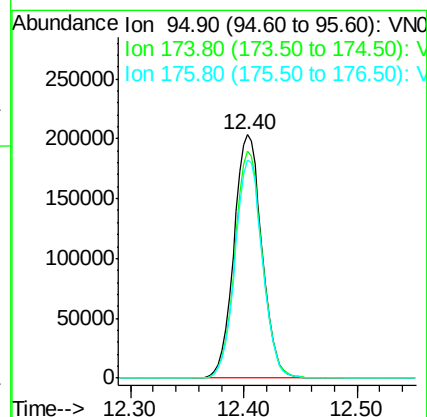
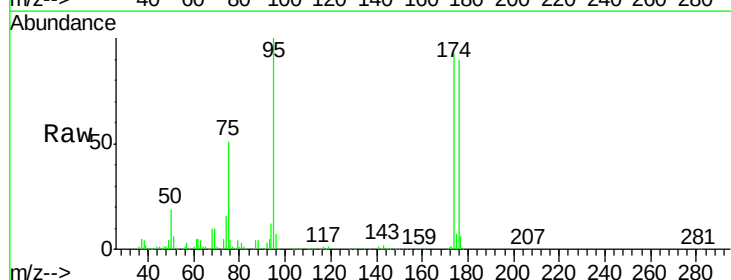
Tgt Ion: 95 Resp: 348879

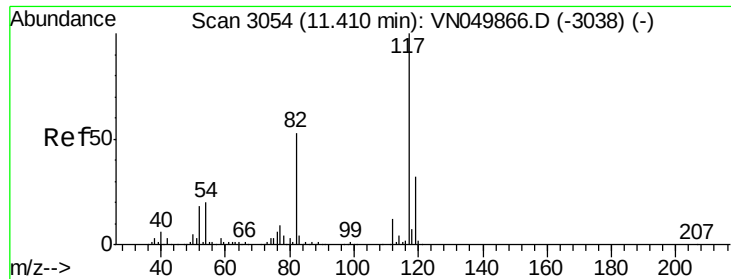
Ion Ratio Lower Upper

95 100

174 91.9 0.0 179.6

176 88.0 0.0 174.0

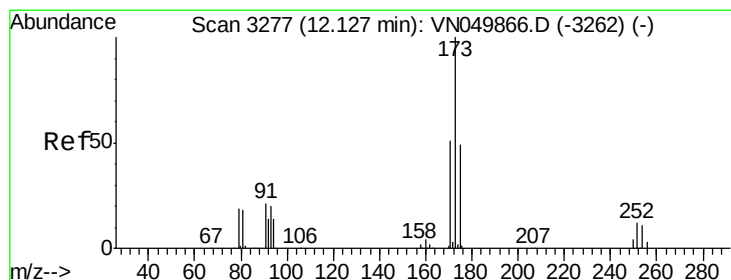
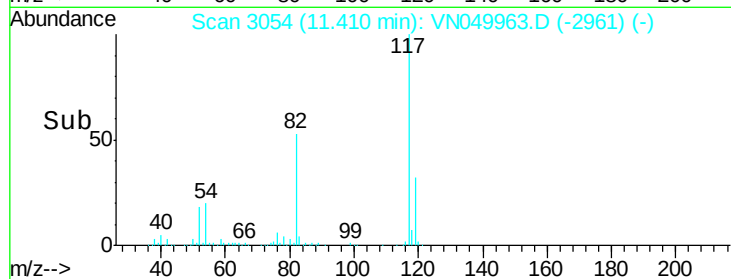
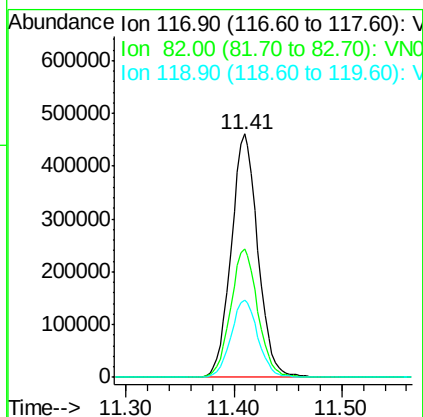
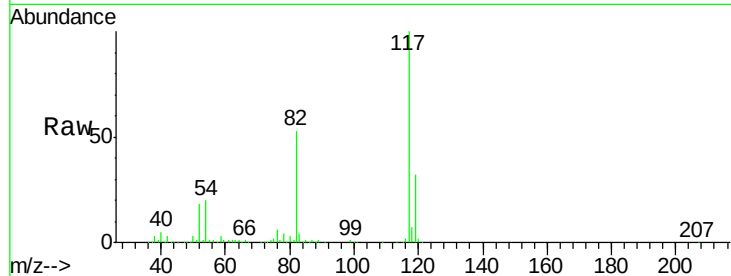




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. -0.00 min
Lab File: VN049963.D
Acq: 20 Jul 2018 15:29

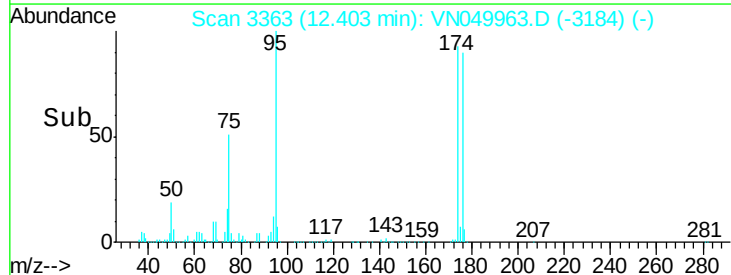
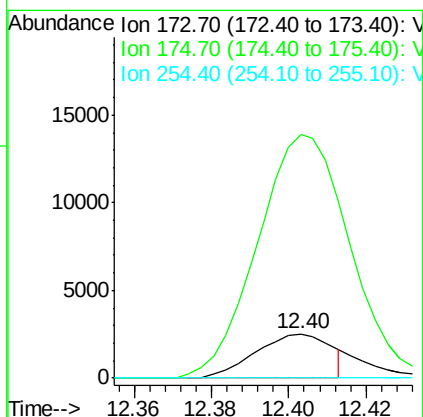
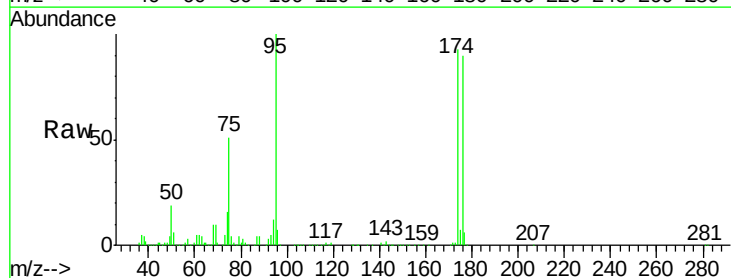
Instrument :
MSVOA_N
ClientSampleId :
PB111289ZHE#03

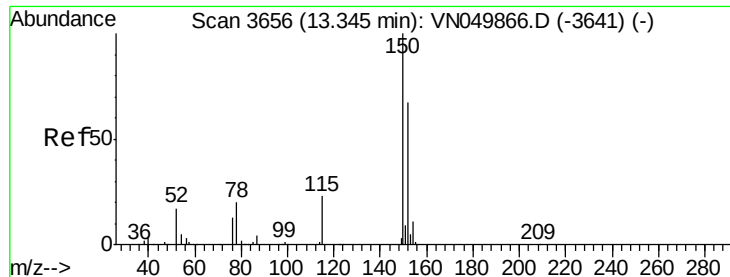
Tot Ion:117 Resp: 795475
Ion Ratio Lower Upper
117 100
82 53.0 41.9 62.9
119 31.9 25.4 38.2



#71
Bromoform
Concen: 0.62 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.28 min
Lab File: VN049963.D
Acq: 20 Jul 2018 15:29

Tgt Ion:173 Resp: 3421
Ion Ratio Lower Upper
173 100
175 557.9 24.6 73.8#
254 0.0 0.2 0.2#

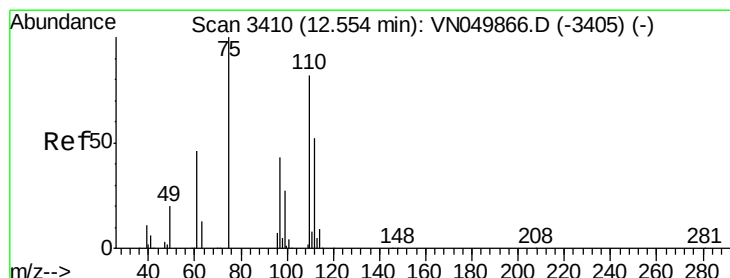
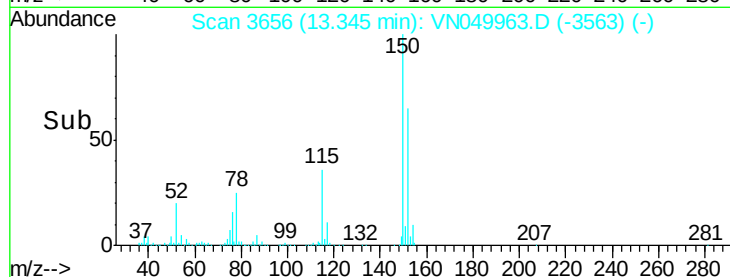
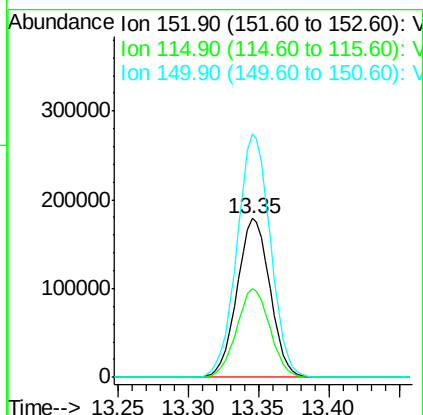
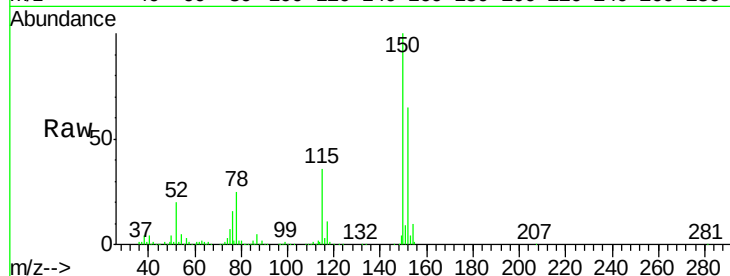




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.00 ug/l
 RT: 13.35 min Scan# 3656
 Delta R.T. -0.00 min
 Lab File: VN049963.D
 Acq: 20 Jul 2018 15:29

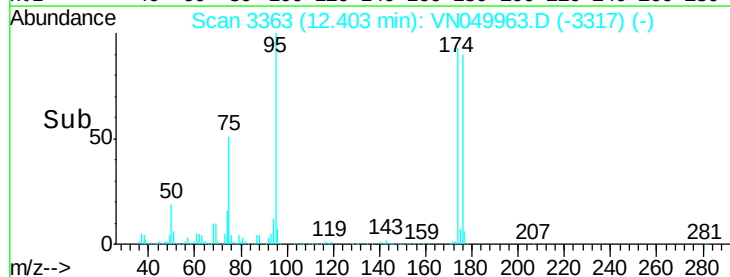
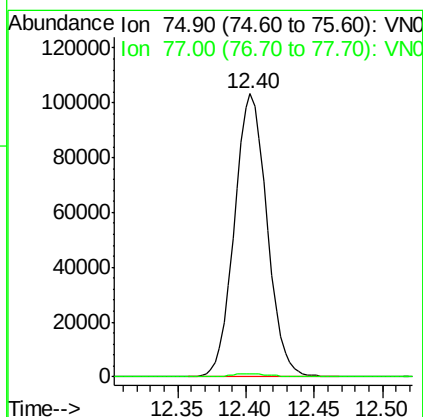
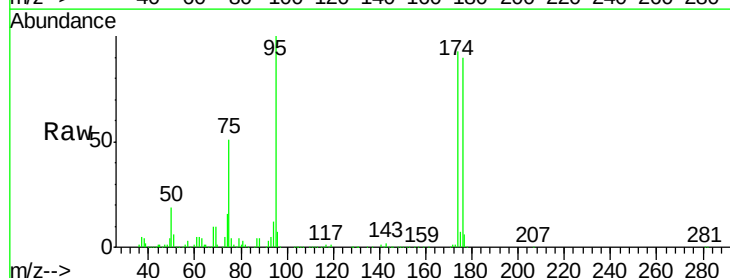
Instrument :
 MSVOA_N
 ClientSampleId :
 PB111289ZHE#03

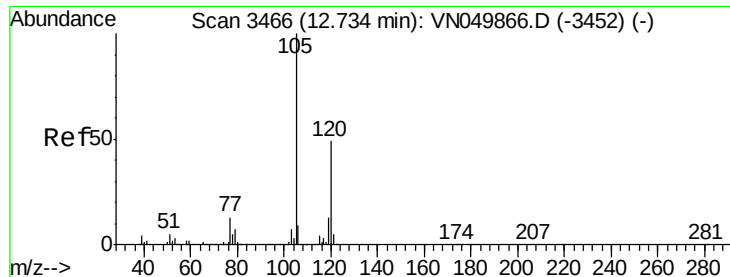
Tot Ion:152 Resp: 293445
 Ion Ratio Lower Upper
 152 100
 115 56.4 28.1 84.2
 150 155.2 0.0 347.6



#76
 1,2,3-Trichloropropane
 Concen: 31.18 ug/l
 RT: 12.40 min Scan# 3363
 Delta R.T. -0.15 min
 Lab File: VN049963.D
 Acq: 20 Jul 2018 15:29

Tgt Ion: 75 Resp: 171616
 Ion Ratio Lower Upper
 75 100
 77 1.3 0.0 0.0#





#80

1,3,5-Trimethylbenzene

Concen: 0.23 ug/l

RT: 12.73 min Scan# 3466

Delta R.T. -0.00 min

Lab File: VN049963.D

Acq: 20 Jul 2018 15:29

Instrument :

MSVOA_N

ClientSampleId :

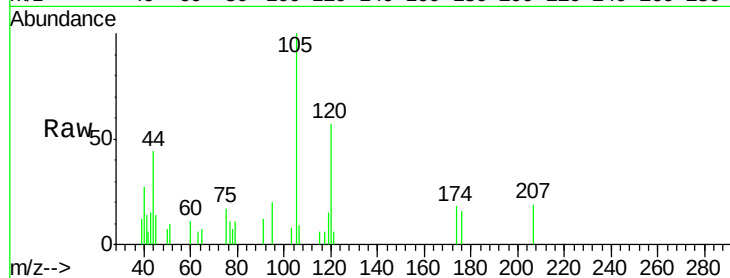
PB111289ZHE#03

Tot Ion:105 Resp: 4058

Ion Ratio Lower Upper

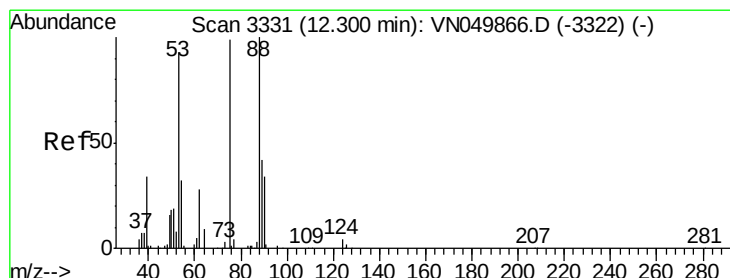
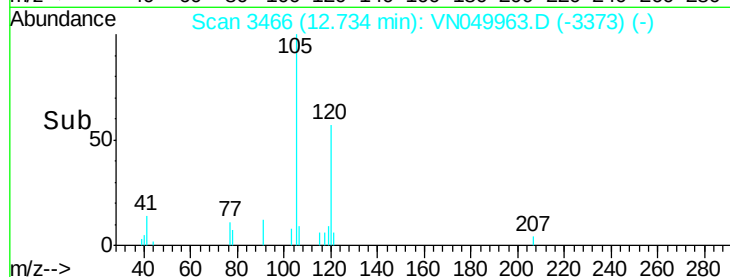
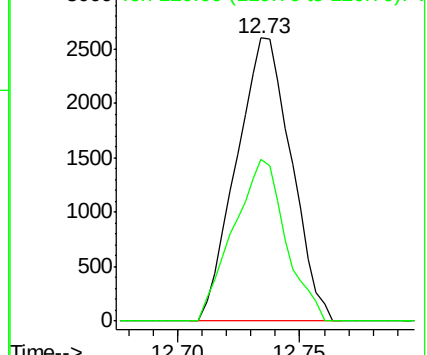
105 100

120 54.4 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: 97.49 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN049963.D

Acq: 20 Jul 2018 15:29

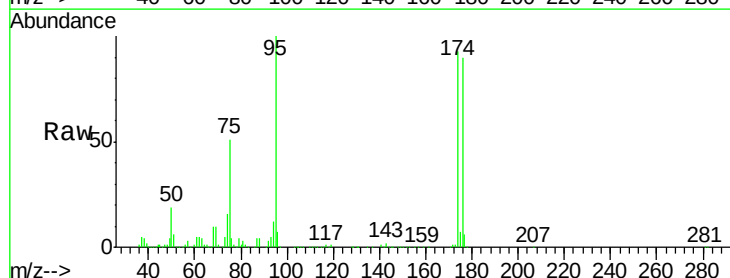
Tgt Ion: 75 Resp: 171616

Ion Ratio Lower Upper

75 100

53 0.2 73.9 110.9#

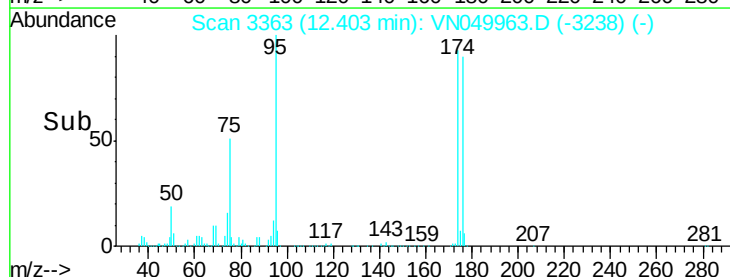
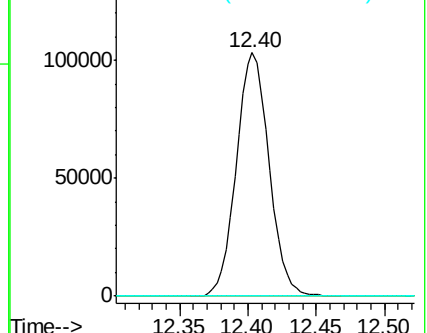
89 0.0 35.9 53.9#

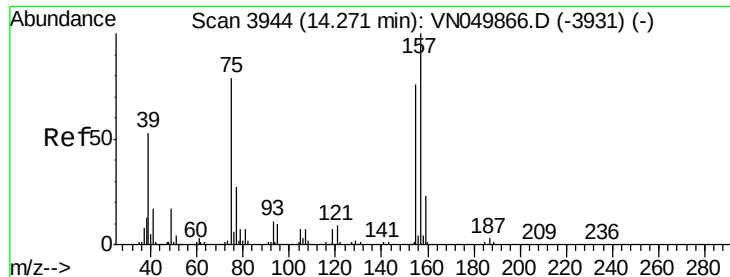


Abundance Ion 74.90 (74.60 to 75.60): VNO

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: 0.36 ug/l

RT: 14.26 min Scan# 3940

Delta R.T. -0.01 min

Lab File: VN049963.D

Acq: 20 Jul 2018 15:29

Instrument :

MSVOA_N

ClientSampleId :

PB111289ZHE#03

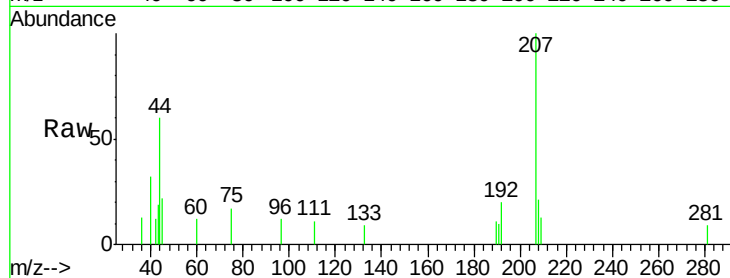
Tot Ion: 75 Resp: 376

Ion Ratio Lower Upper

75 100

155 0.0 45.7 137.1#

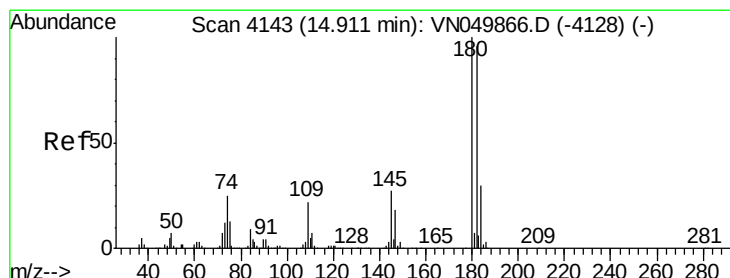
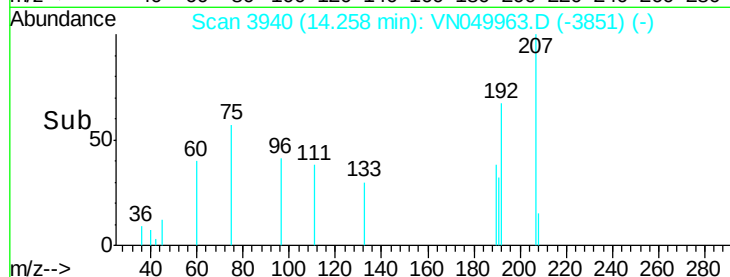
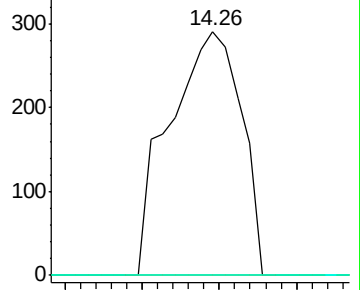
157 0.0 56.9 170.7#



Abundance Ion 74.90 (74.60 to 75.60): VN049866.D (-3931) (-)

Ion 154.80 (154.50 to 155.50): VN049866.D (-3931) (-)

Ion 156.80 (156.50 to 157.50): VN049866.D (-3931) (-)



#93

1,2,4-Trichlorobenzene

Concen: 3.55 ug/l

RT: 14.91 min Scan# 4143

Delta R.T. 0.00 min

Lab File: VN049963.D

Acq: 20 Jul 2018 15:29

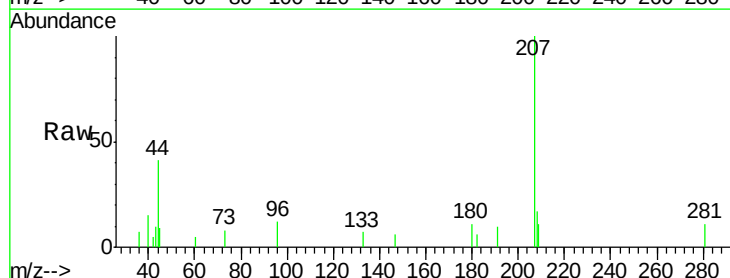
Tgt Ion: 180 Resp: 480

Ion Ratio Lower Upper

180 100

182 21.3 47.3 141.9#

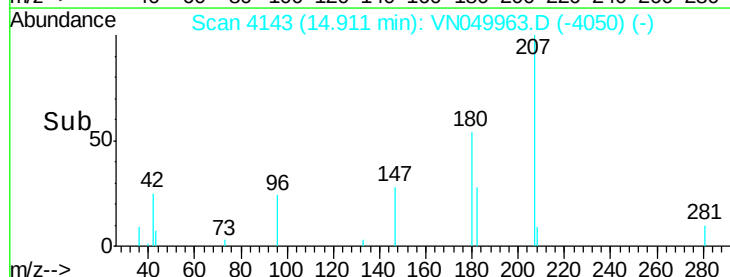
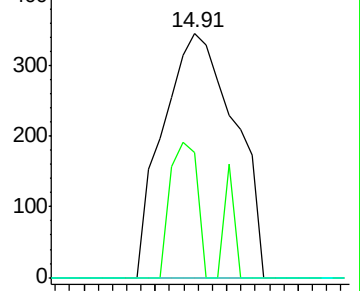
145 0.0 14.4 43.0#

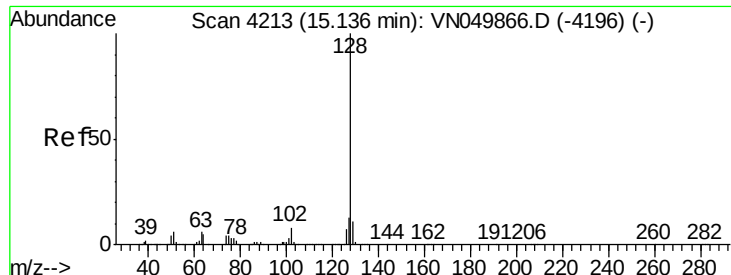


Abundance Ion 179.80 (179.50 to 180.50): VN049866.D (-4128) (-)

Ion 181.80 (181.50 to 182.50): VN049866.D (-4128) (-)

Ion 144.80 (144.50 to 145.50): VN049866.D (-4128) (-)





#95

Naphthalene

Concen: 4.56 ug/l

RT: 15.13 min Scan# 4212

Delta R.T. -0.00 min

Lab File: VN049963.D

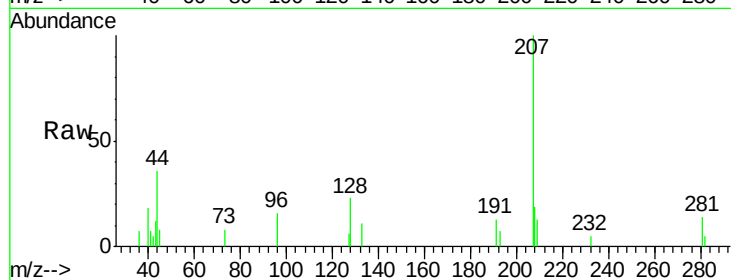
Acq: 20 Jul 2018 15:29

Instrument :

MSVOA_N

ClientSampleId :

PB111289ZHE#03



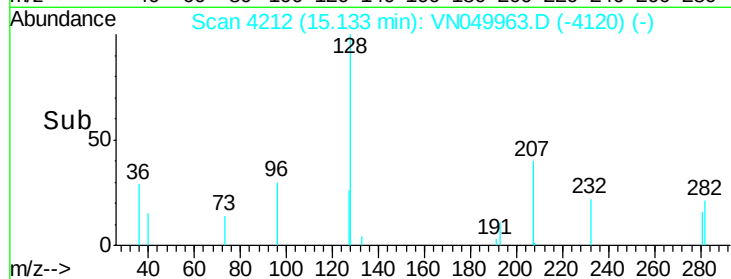
Tot Ion:128 Resp: 999

Ion Ratio Lower Upper

128 100

127 7.4 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

