

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071918\
 Data File : VN049916.D
 Acq On : 19 Jul 2018 15:07
 Operator : MD\SY
 Sample : PB111251ZHE#03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB111251ZHE#03

Quant Time: Jul 20 01:28:55 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	564433	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	947629	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	808193	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	318345	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	403810	52.05	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.10%	
35) Dibromofluoromethane	7.59	113	351726	44.21	ug/l	0.00
Spiked Amount	50.000		Recovery	=	88.42%	
50) Toluene-d8	10.09	98	1265580	43.66	ug/l	0.00
Spiked Amount	50.000		Recovery	=	87.32%	
62) 4-Bromofluorobenzene	12.40	95	368449	36.91	ug/l	0.00
Spiked Amount	50.000		Recovery	=	73.82%	

Target Compounds

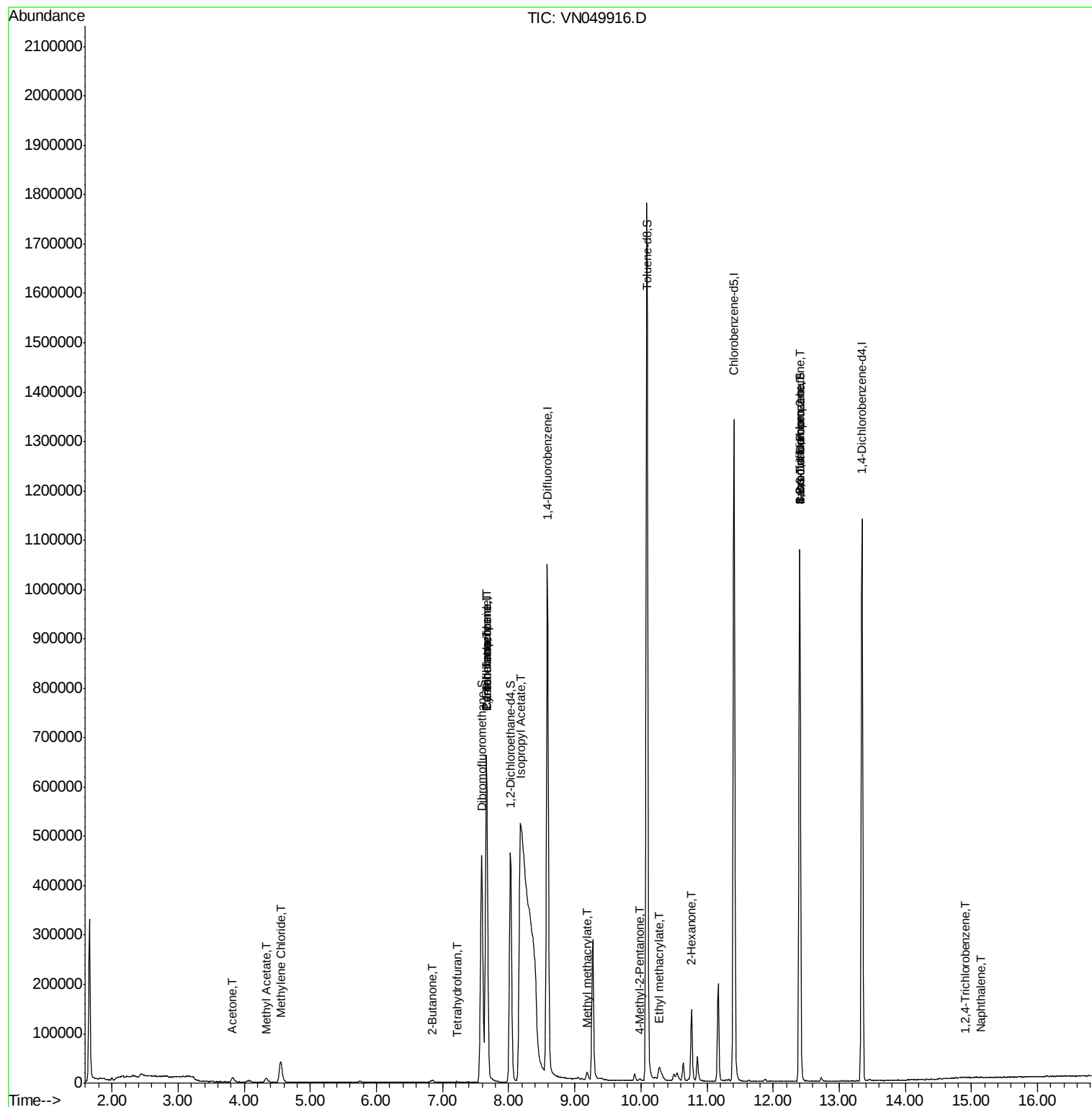
						Qvalue
5) Bromomethane	2.56	94	413	Below Cal	#	69
16) Acetone	3.82	43	16518	8.22	ug/l	98
18) Methyl Acetate	4.33	43	17601	2.00	ug/l #	90
20) Methylene Chloride	4.55	84	33727	4.42	ug/l	94
25) 2-Butanone	6.85	43	4261	1.48	ug/l	100
29) Tetrahydrofuran	7.22	42	398	0.22	ug/l	91
31) Cyclohexane	7.66	56	11067	1.07	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	38730	3.68	ug/l #	49
38) Carbon Tetrachloride	7.67	117	52575	4.66	ug/l #	17
43) Isopropyl Acetate	8.18	43	2159224	170.82	ug/l #	67
48) Methyl methacrylate	9.18	41	8561	1.35	ug/l #	21
51) 4-Methyl-2-Pentanone	9.99	43	2514	0.36	ug/l	94
56) Ethyl methacrylate	10.28	69	114	2.17	ug/l #	1
59) 2-Hexanone	10.77	43	20704	4.36	ug/l #	56
71) Bromoform	12.40	173	2756	0.49	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	180979	30.31	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	180979	94.76	ug/l #	13
93) 1,2,4-Trichlorobenzene	14.91	180	30	3.48	ug/l #	1
95) Naphthalene	15.13	128	249	4.51	ug/l #	69

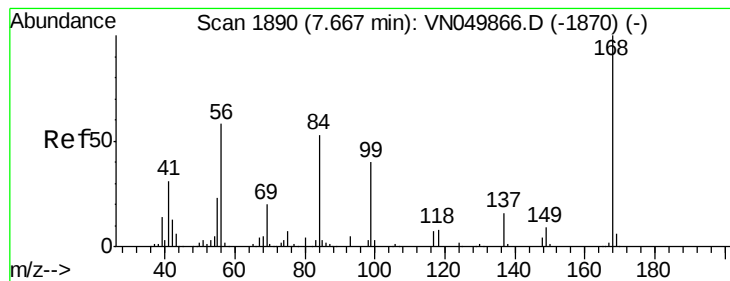
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Jul 19 01:58:39 2018
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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.00 min

Lab File: VN049916.D

Acq: 19 Jul 2018 15:07

Instrument :

MSVOA_N

ClientSampleId :

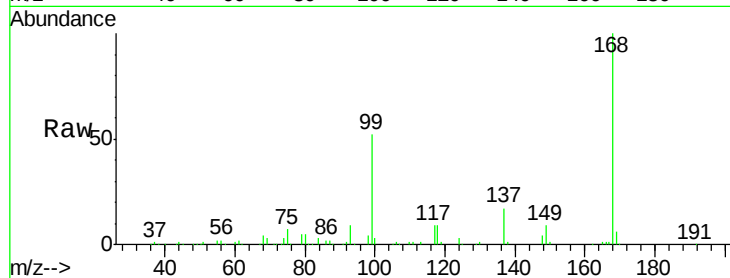
PB111251ZHE#03

Tot Ion:168 Resp: 564433

Ion Ratio Lower Upper

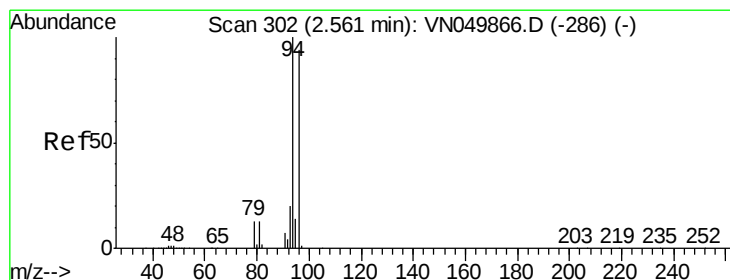
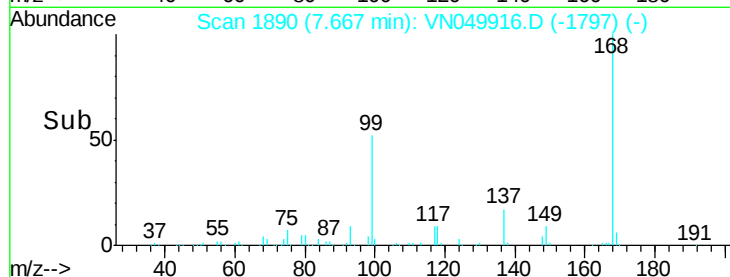
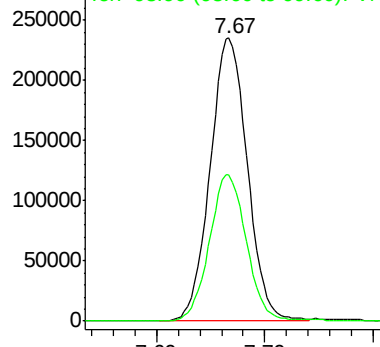
168 100

99 51.6 40.6 61.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#5

Bromomethane

Concen: Below Cal

RT: 2.56 min Scan# 302

Delta R.T. 0.00 min

Lab File: VN049916.D

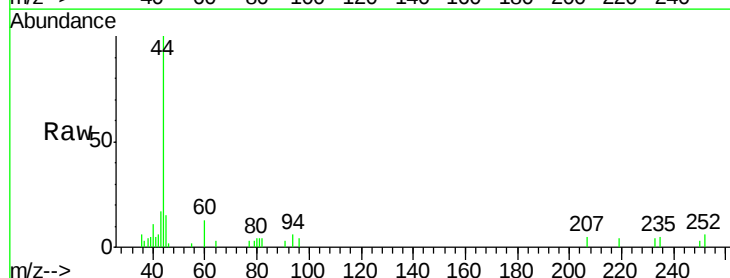
Acq: 19 Jul 2018 15:07

Tgt Ion: 94 Resp: 413

Ion Ratio Lower Upper

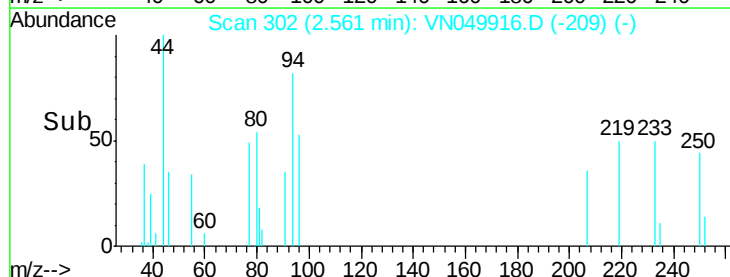
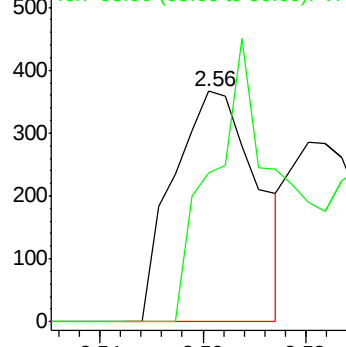
94 100

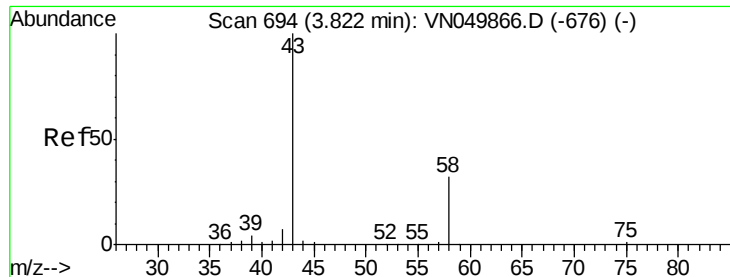
96 64.8 75.7 113.5#



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0





#16

Acetone

Concen: 8.22 ug/l

RT: 3.82 min Scan# 695

Delta R.T. 0.00 min

Lab File: VN049916.D

Acq: 19 Jul 2018 15:07

Instrument :

MSVOA_N

ClientSampleId :

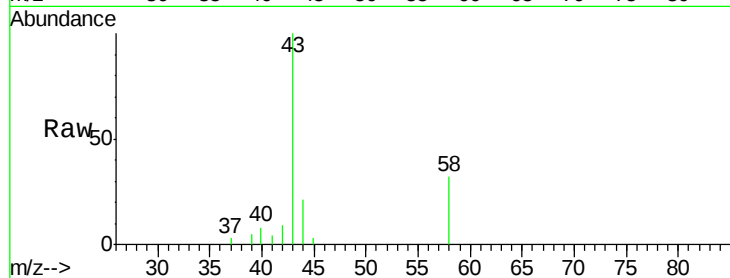
PB111251ZHE#03

Tot Ion: 43 Resp: 16518

Ion Ratio Lower Upper

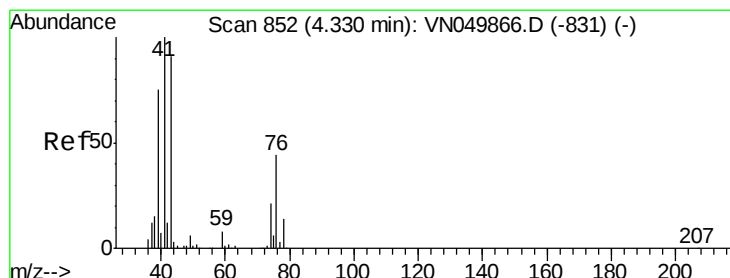
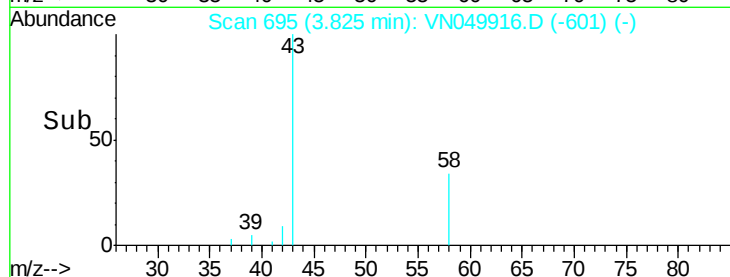
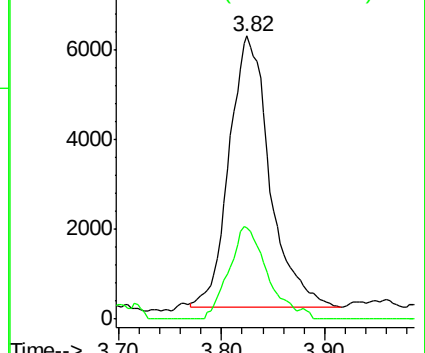
43 100

58 33.7 25.9 38.9



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: 2.00 ug/l

RT: 4.33 min Scan# 853

Delta R.T. 0.00 min

Lab File: VN049916.D

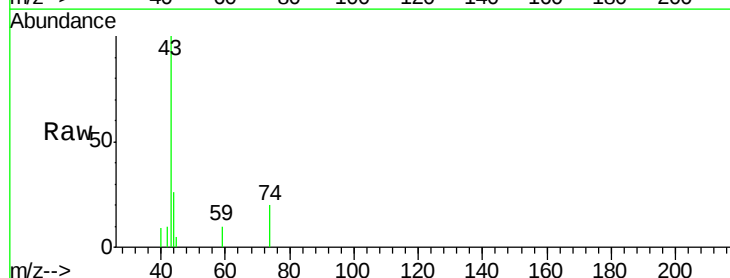
Acq: 19 Jul 2018 15:07

Tgt Ion: 43 Resp: 17601

Ion Ratio Lower Upper

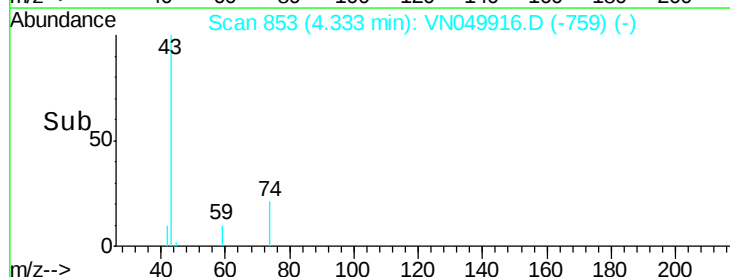
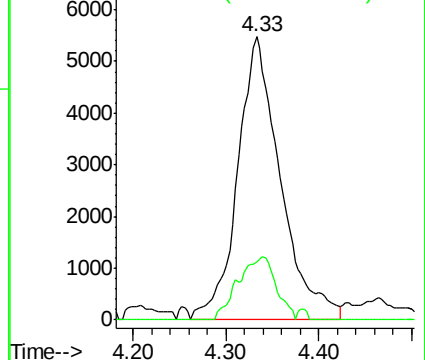
43 100

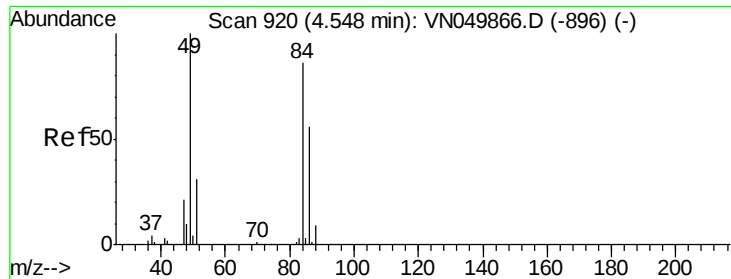
74 19.8 19.8 29.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

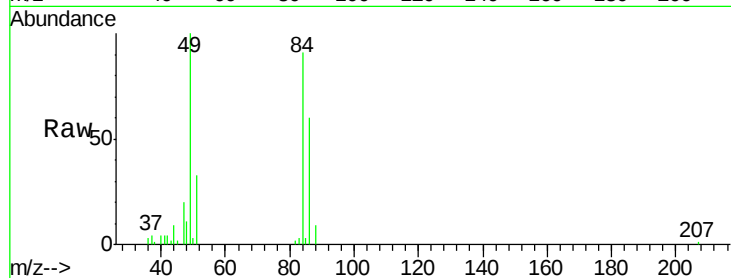




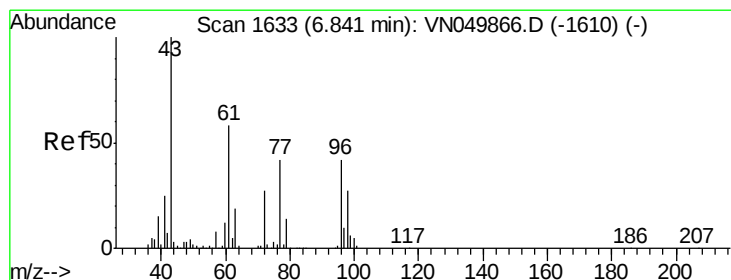
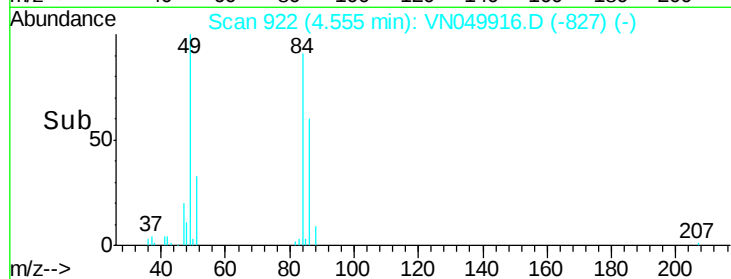
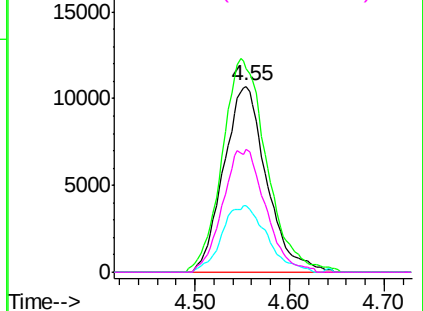
#20
Methvlene Chloride
Concen: 4.42 ug/l
RT: 4.55 min Scan# 922
Delta R.T. 0.01 min
Lab File: VN049916.D
Acq: 19 Jul 2018 15:07

Instrument :
MSVOA_N
ClientSampleId :
PB111251ZHE#03

Tot Ion: 84 Resp: 33727
Ion Ratio Lower Upper
84 100
49 108.0 95.4 143.2
51 35.7 28.4 42.6
86 65.7 52.6 79.0

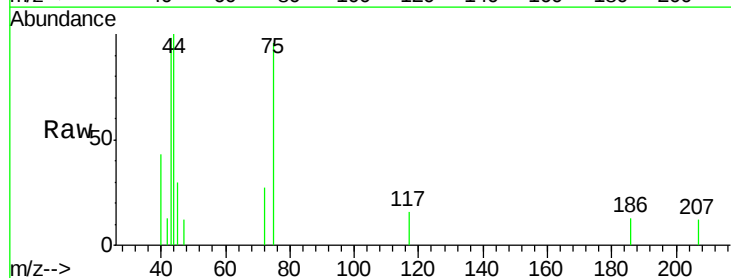


Abundance Ion 83.90 (83.60 to 84.60): VN0
Ion 48.90 (48.60 to 49.60): VN0
Ion 50.90 (50.60 to 51.60): VN0
Ion 85.90 (85.60 to 86.60): VN0

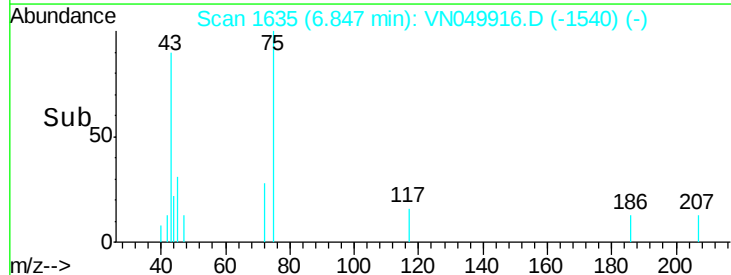
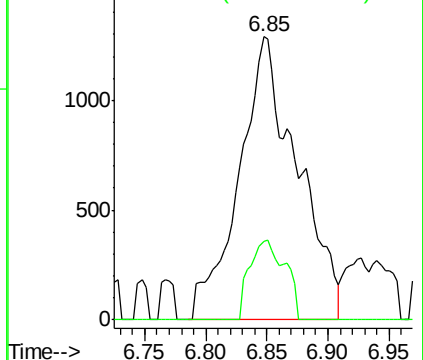


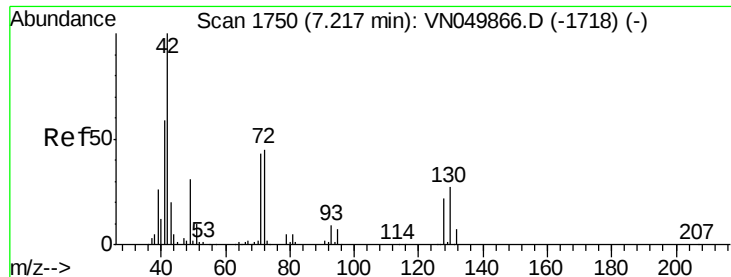
#25
2-Butanone
Concen: 1.48 ug/l
RT: 6.85 min Scan# 1635
Delta R.T. 0.01 min
Lab File: VN049916.D
Acq: 19 Jul 2018 15:07

Tgt Ion: 43 Resp: 4261
Ion Ratio Lower Upper
43 100
72 27.5 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: 0.22 ug/l

RT: 7.22 min Scan# 1750

Delta R.T. -0.00 min

Lab File: VN049916.D

Acq: 19 Jul 2018 15:07

Instrument :

MSVOA_N

ClientSampleId :

PB111251ZHE#03

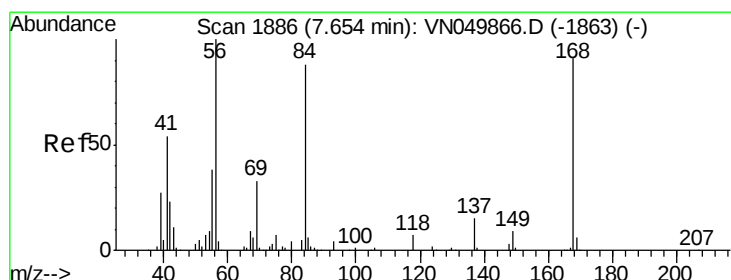
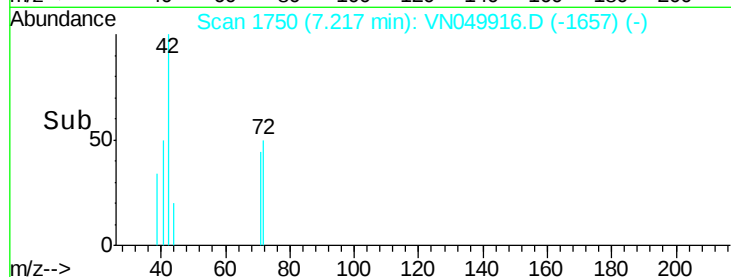
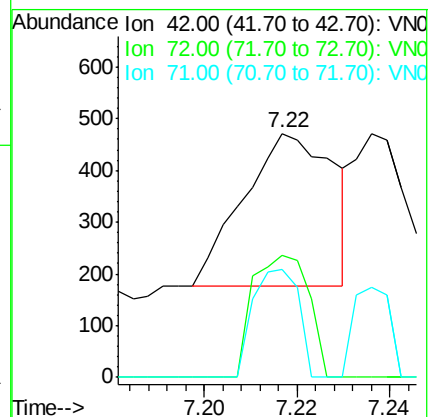
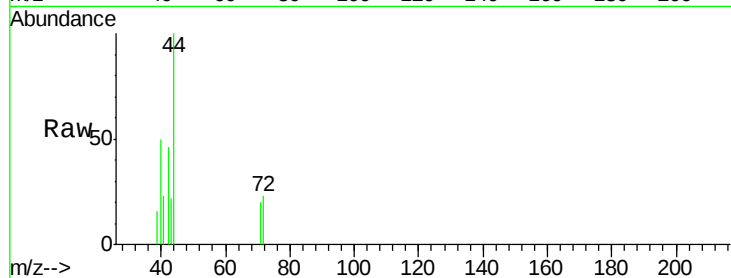
Tot Ion: 42 Resp: 398

Ion Ratio Lower Upper

42 100

72 49.5 35.6 53.4

71 35.7 34.0 51.0



#31

Cyclohexane

Concen: 1.07 ug/l

RT: 7.66 min Scan# 1888

Delta R.T. 0.01 min

Lab File: VN049916.D

Acq: 19 Jul 2018 15:07

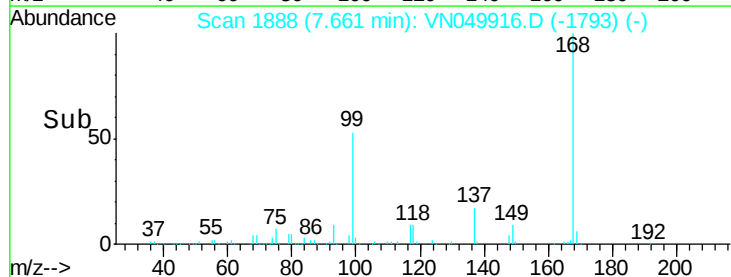
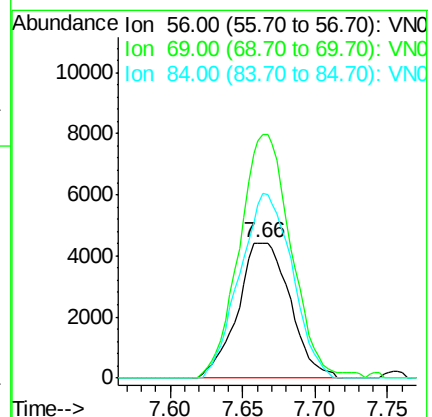
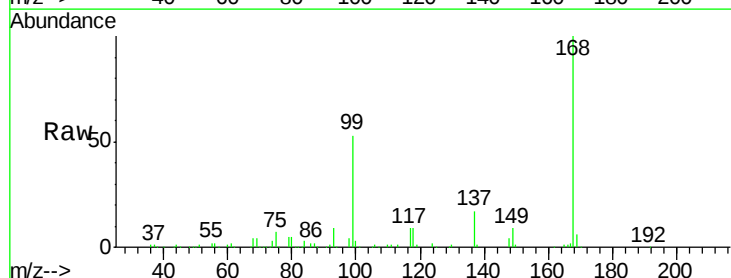
Tgt Ion: 56 Resp: 11067

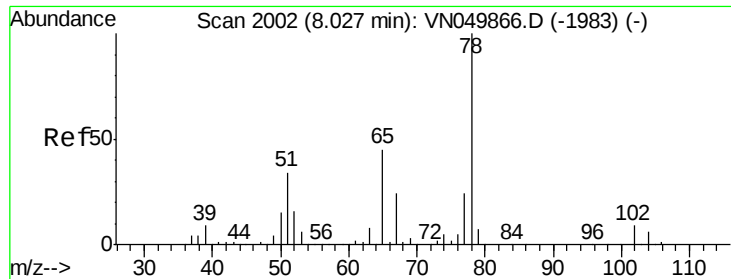
Ion Ratio Lower Upper

56 100

69 175.4 26.6 40.0#

84 128.1 69.0 103.6#

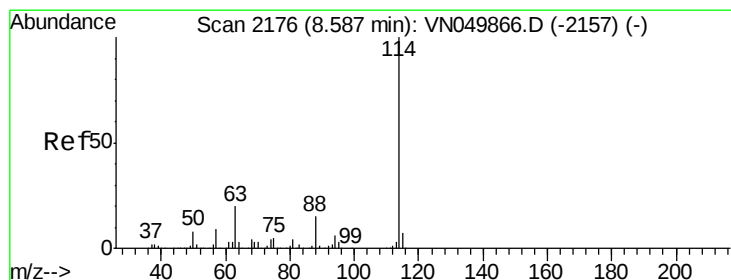
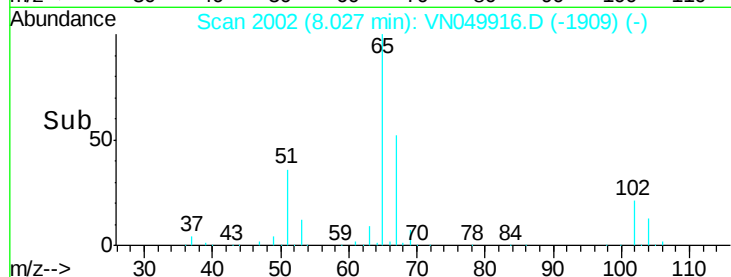
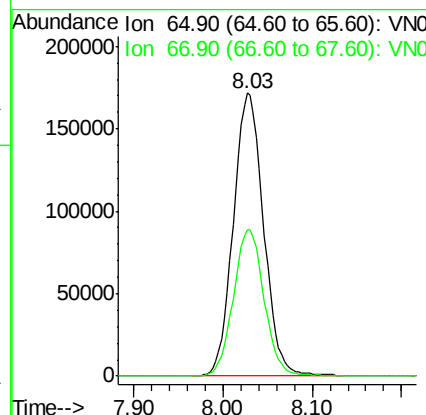
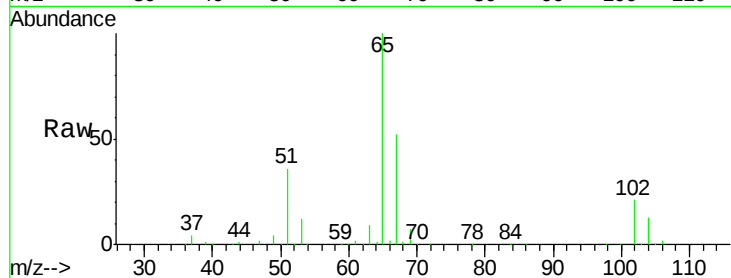




#33
 1,2-Dichloroethane-d4
 Concen: 52.05 ug/l
 RT: 8.03 min Scan# 2002
 Delta R.T. -0.00 min
 Lab File: VN049916.D
 Acq: 19 Jul 2018 15:07

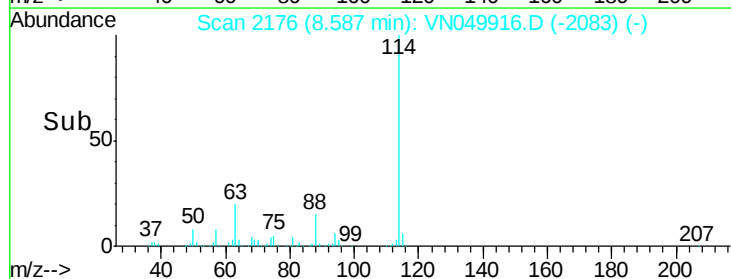
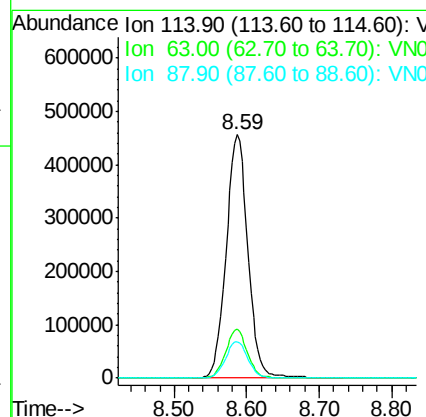
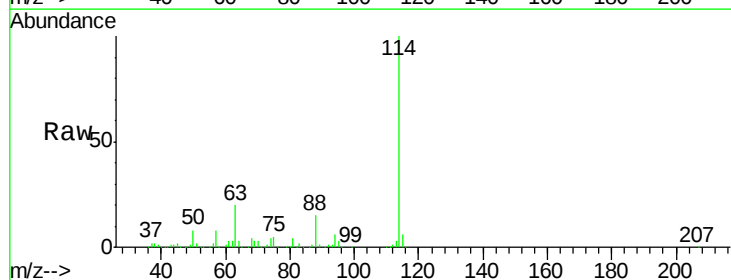
Instrument :
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 PB111251ZHE#03

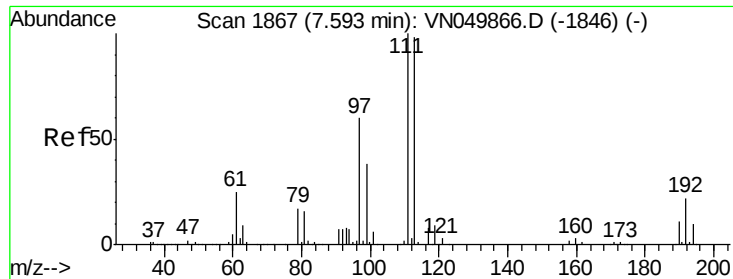
Tot Ion: 65 Resp: 403810
 Ion Ratio Lower Upper
 65 100
 67 52.3 0.0 107.2



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2176
 Delta R.T. -0.00 min
 Lab File: VN049916.D
 Acq: 19 Jul 2018 15:07

Tgt Ion: 114 Resp: 947629
 Ion Ratio Lower Upper
 114 100
 63 20.0 0.0 39.8
 88 15.1 0.0 30.6

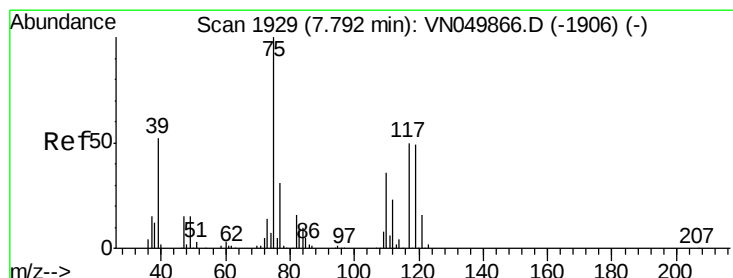
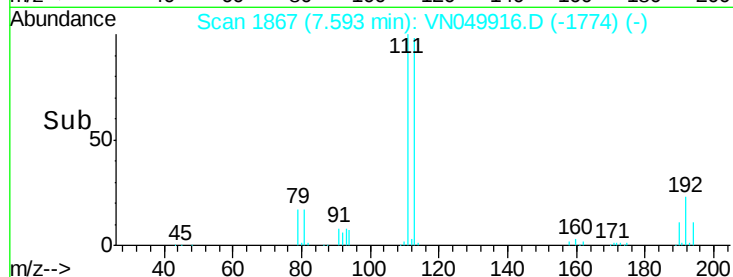
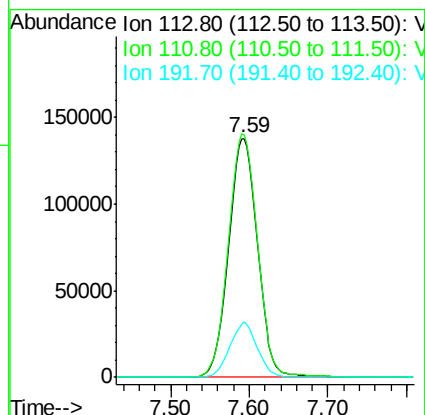
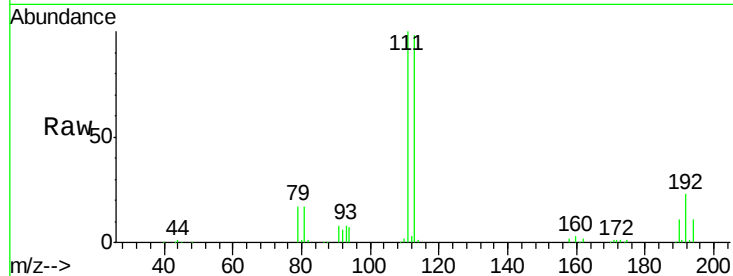




#35
 Dibromofluoromethane
 Concen: 44.21 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. -0.00 min
 Lab File: VN049916.D
 Acq: 19 Jul 2018 15:07

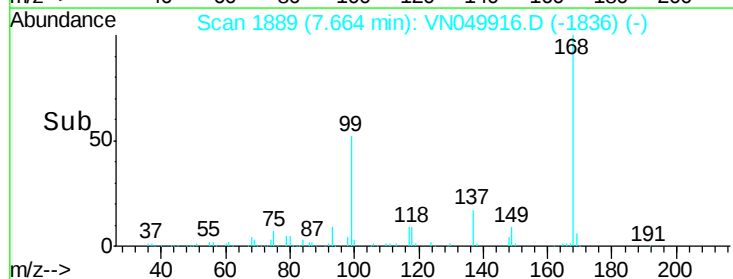
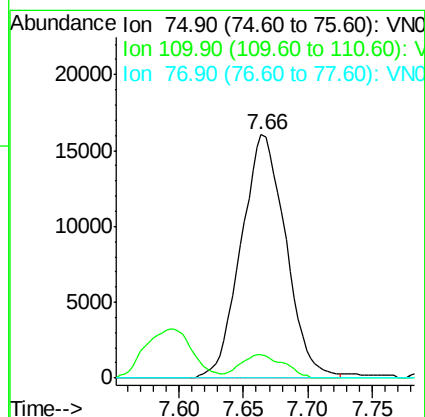
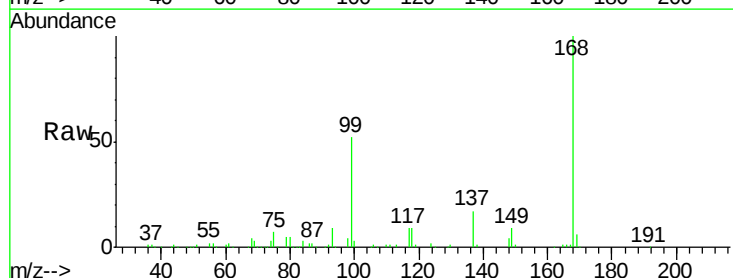
Instrument :
 MSVOA_N
 ClientSampleId :
 PB111251ZHE#03

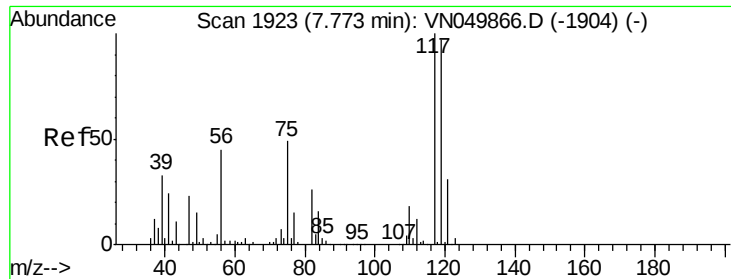
Tot Ion:113 Resp: 351726
 Ion Ratio Lower Upper
 113 100
 111 101.6 81.8 122.8
 192 21.8 17.8 26.6



#36
 1,1-Dichloropropene
 Concen: 3.68 ug/l
 RT: 7.66 min Scan# 1889
 Delta R.T. -0.13 min
 Lab File: VN049916.D
 Acq: 19 Jul 2018 15:07

Tgt Ion: 75 Resp: 38730
 Ion Ratio Lower Upper
 75 100
 110 9.4 18.1 54.4#
 77 0.0 24.9 37.3#

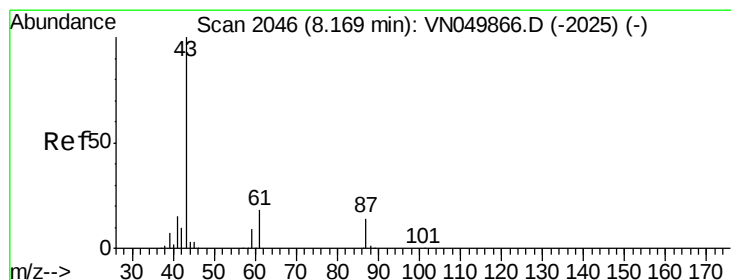
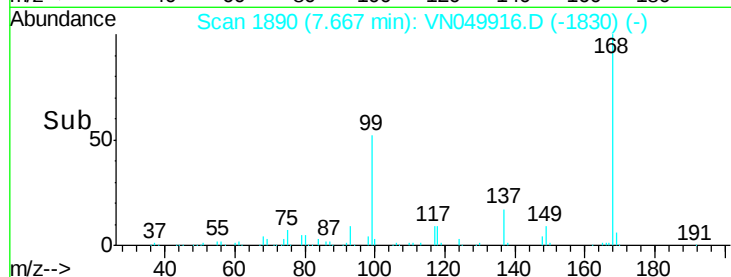
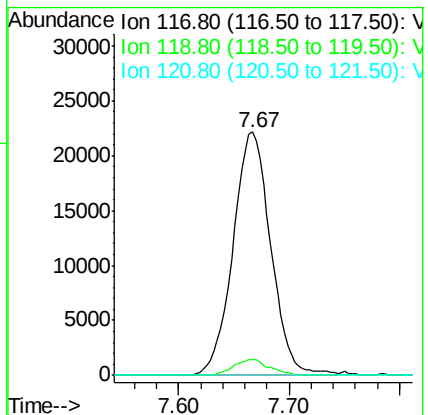
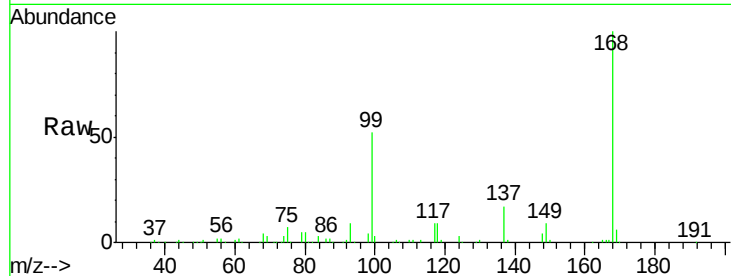




#38
Carbon Tetrachloride
Concen: 4.66 ug/l
RT: 7.67 min Scan# 1890
Delta R.T. -0.11 min
Lab File: VN049916.D
Acq: 19 Jul 2018 15:07

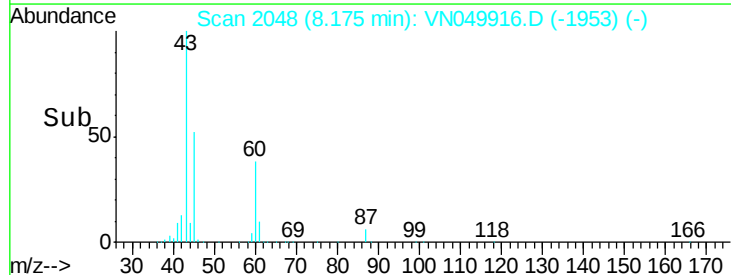
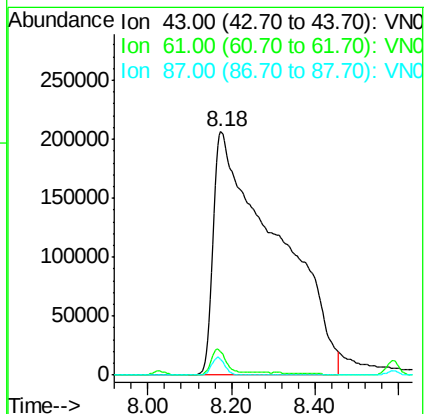
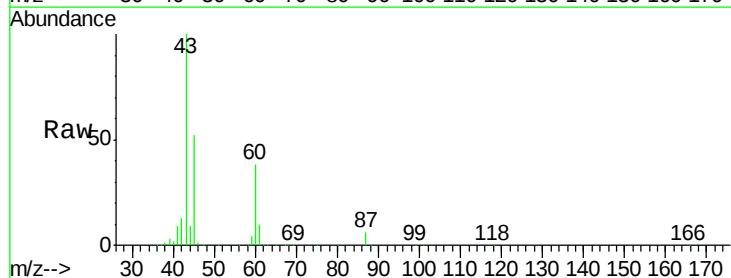
Instrument :
MSVOA_N
ClientSampleId :
PB111251ZHE#03

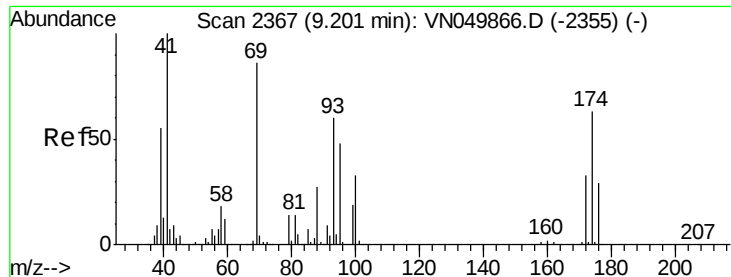
Tot Ion:117 Resp: 52575
Ion Ratio Lower Upper
117 100
119 6.7 77.2 115.8#
121 0.0 25.0 37.6#



#43
Isopropyl Acetate
Concen: 170.82 ug/l
RT: 8.18 min Scan# 2048
Delta R.T. 0.01 min
Lab File: VN049916.D
Acq: 19 Jul 2018 15:07

Tgt Ion: 43 Resp: 2159224
Ion Ratio Lower Upper
43 100
61 2.6 14.9 22.3#
87 1.5 10.0 15.0#

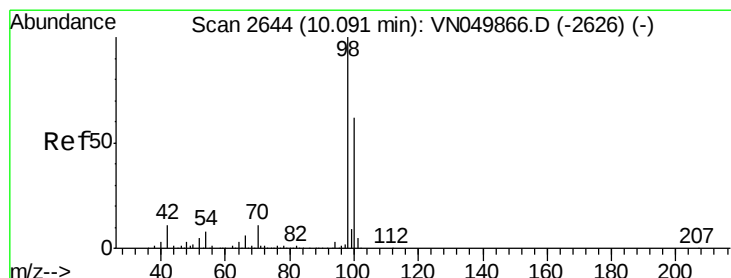
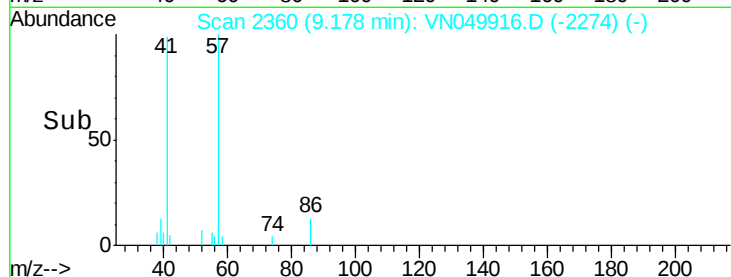
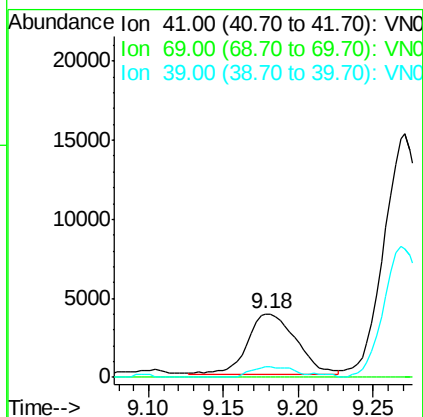
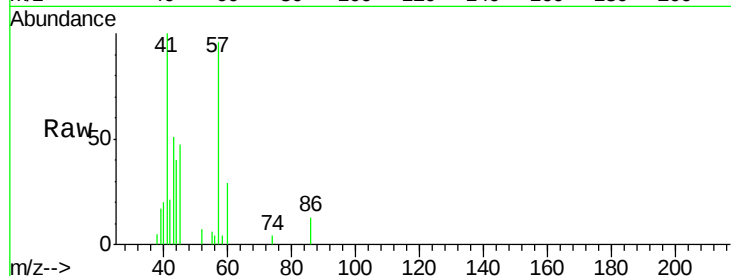




#48
Methvl methacrylate
Concen: 1.35 ug/l
RT: 9.18 min Scan# 2360
Delta R.T. -0.02 min
Lab File: VN049916.D
Acq: 19 Jul 2018 15:07

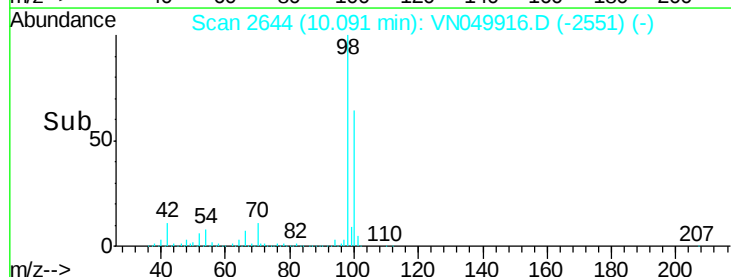
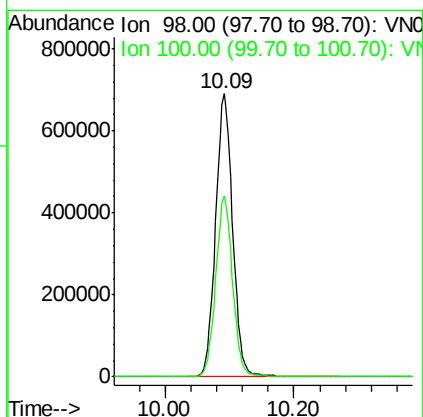
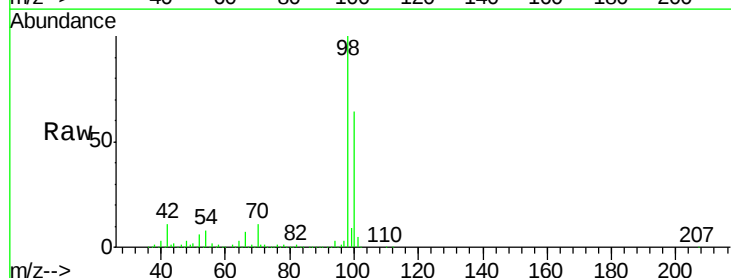
Instrument :
MSVOA_N
ClientSampleId :
PB111251ZHE#03

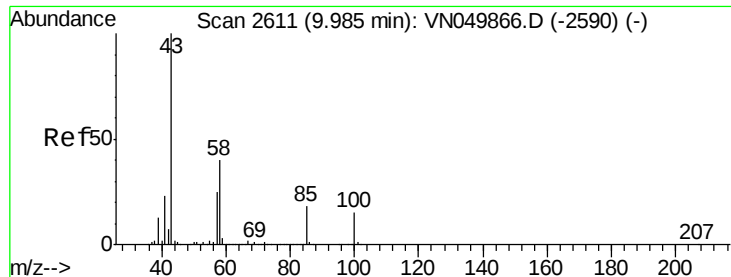
Tot Ion: 41 Resp: 8561
Ion Ratio Lower Upper
41 100
69 0.0 71.5 107.3#
39 17.8 44.7 67.1#



#50
Toluene-d8
Concen: 43.66 ug/l
RT: 10.09 min Scan# 2644
Delta R.T. 0.00 min
Lab File: VN049916.D
Acq: 19 Jul 2018 15:07

Tgt Ion: 98 Resp: 1265580
Ion Ratio Lower Upper
98 100
100 63.2 51.7 77.5





#51

4-Methyl-2-Pentanone

Concen: 0.36 ug/l

RT: 9.99 min Scan# 2612

Delta R.T. 0.00 min

Lab File: VN049916.D

Acq: 19 Jul 2018 15:07

Instrument :

MSVOA_N

ClientSampleId :

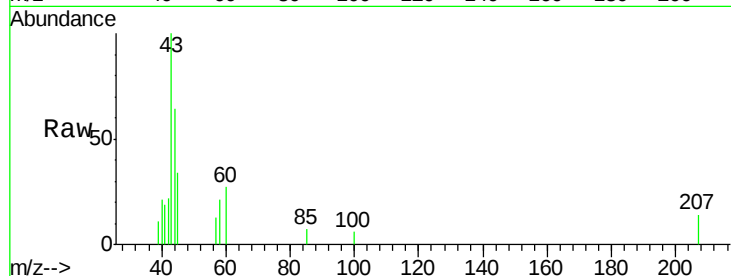
PB111251ZHE#03

Tot Ion: 43 Resp: 2514

Ion Ratio Lower Upper

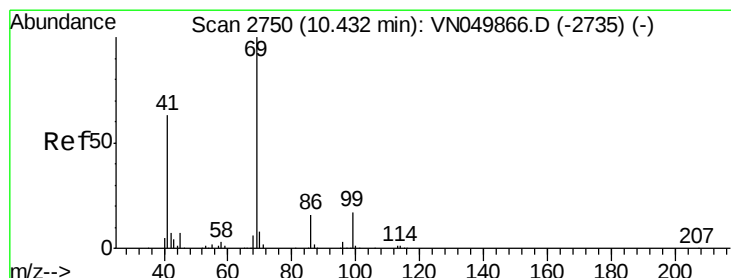
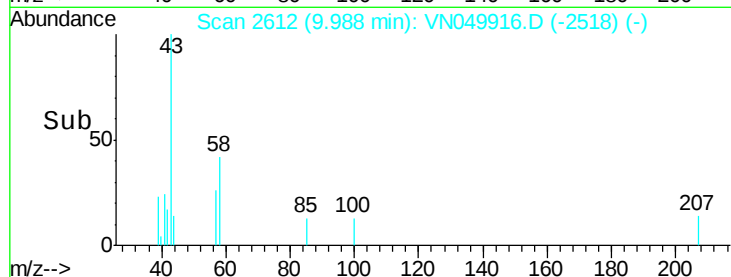
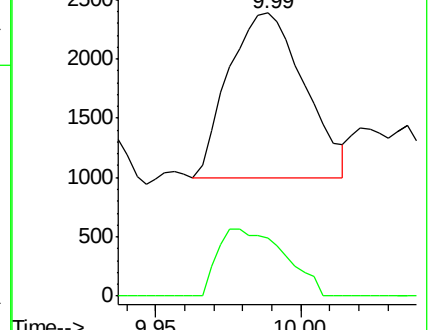
43 100

58 36.2 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) (-)



#56

Ethyl methacrylate

Concen: 2.17 ug/l

RT: 10.28 min Scan# 2702

Delta R.T. -0.15 min

Lab File: VN049916.D

Acq: 19 Jul 2018 15:07

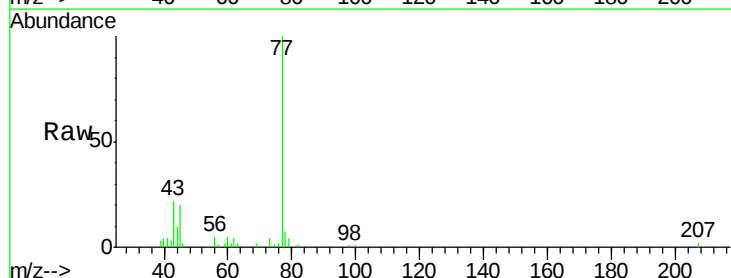
Tgt Ion: 69 Resp: 114

Ion Ratio Lower Upper

69 100

41 956.1 51.6 77.4#

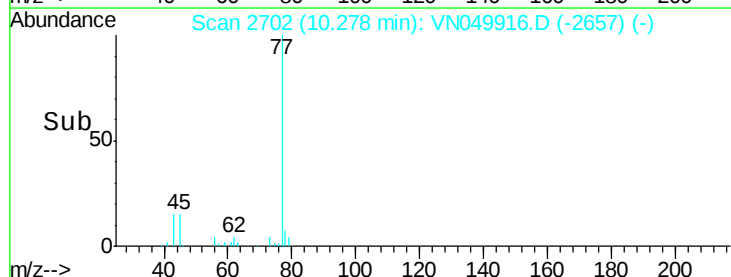
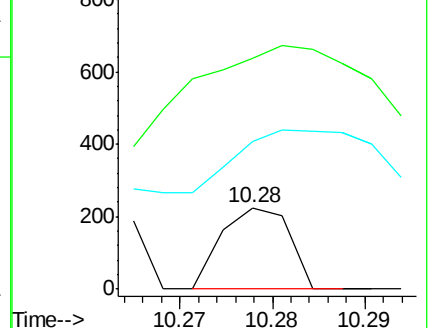
39 847.4 25.8 38.8#

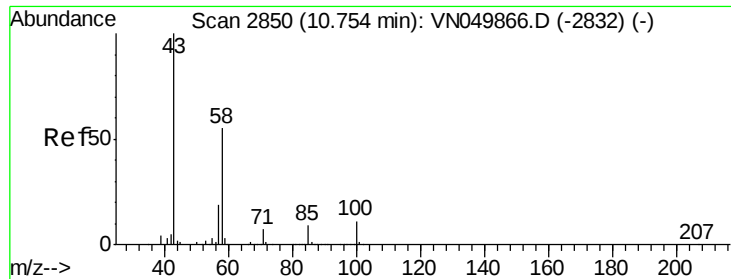


Abundance Ion 69.00 (68.70 to 69.70): VN049866.D (-2735) (-)

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

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





#59

2-Hexanone

Concen: 4.36 ug/l

RT: 10.77 min Scan# 2854

Delta R.T. 0.01 min

Lab File: VN049916.D

Acq: 19 Jul 2018 15:07

Instrument :

MSVOA_N

ClientSampleId :

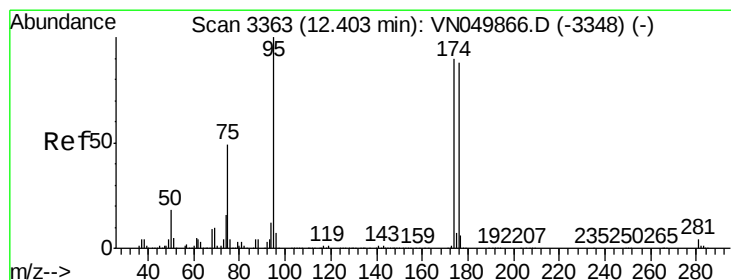
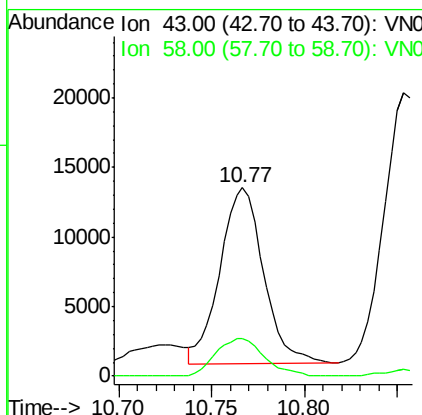
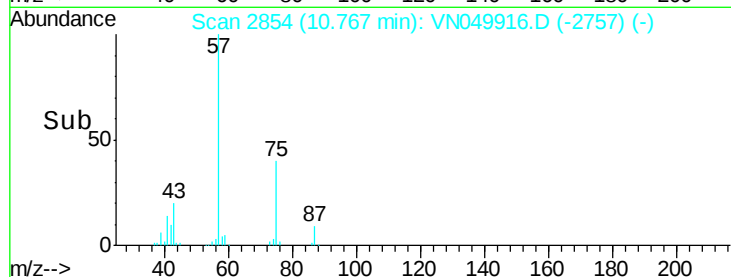
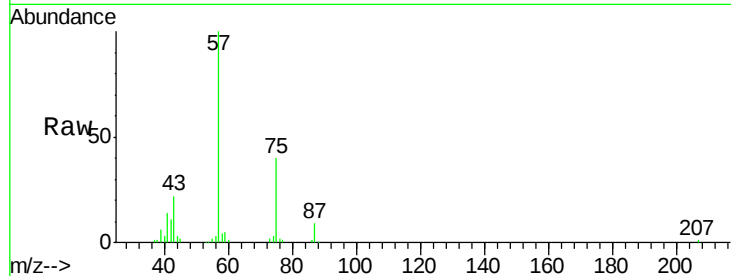
PB111251ZHE#03

Tot Ion: 43 Resp: 20704

Ion Ratio Lower Upper

43 100

58 23.8 27.8 83.4#



#62

4-Bromofluorobenzene

Concen: 36.91 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.00 min

Lab File: VN049916.D

Acq: 19 Jul 2018 15:07

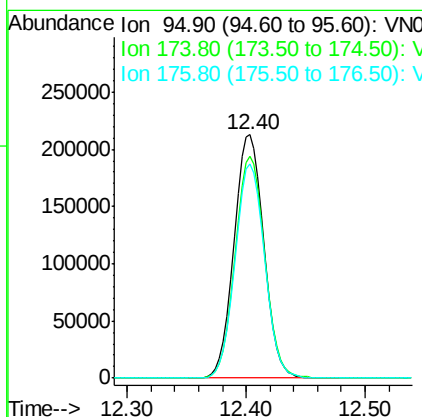
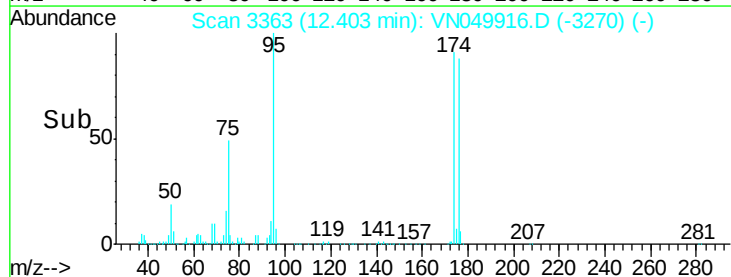
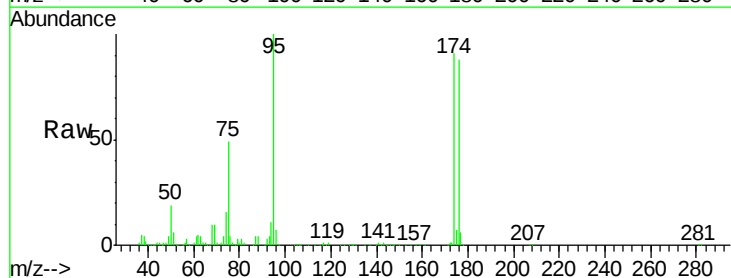
Tgt Ion: 95 Resp: 368449

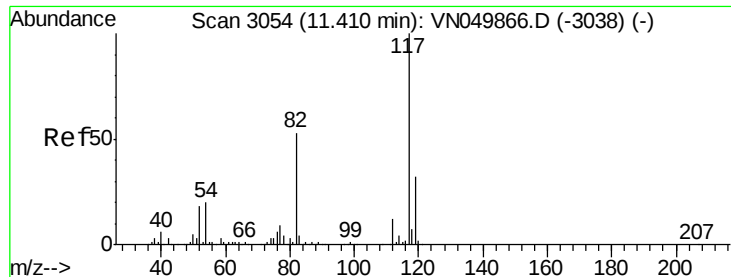
Ion Ratio Lower Upper

95 100

174 90.9 0.0 179.6

176 87.4 0.0 174.0

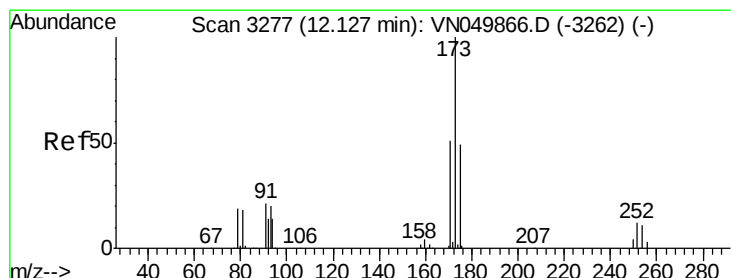
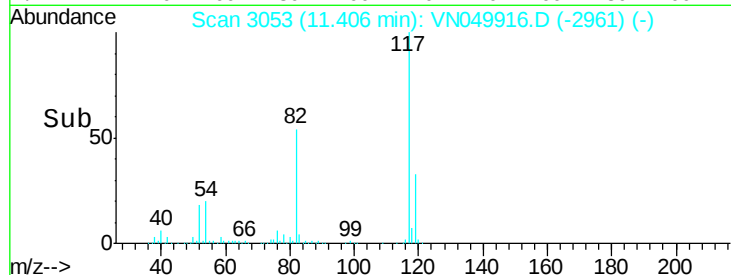
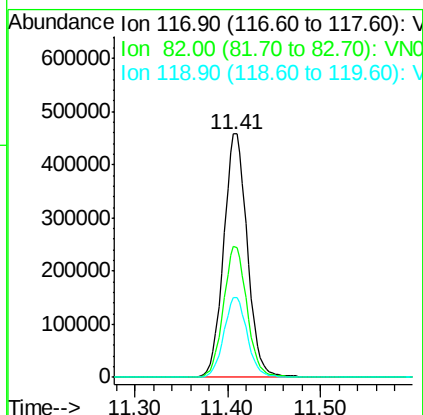
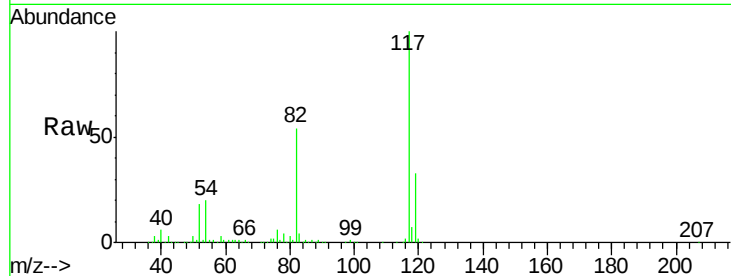




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3053
Delta R.T. -0.00 min
Lab File: VN049916.D
Acq: 19 Jul 2018 15:07

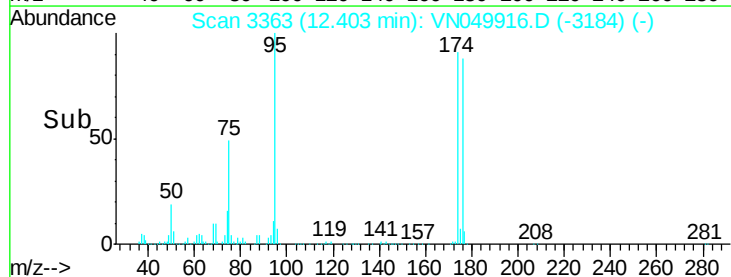
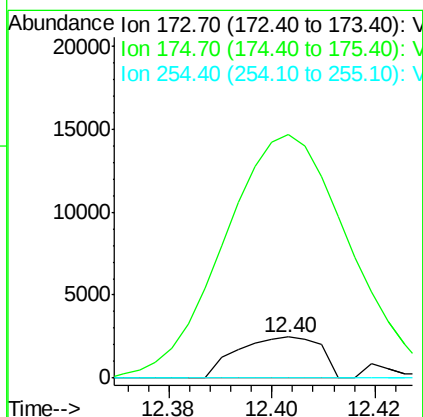
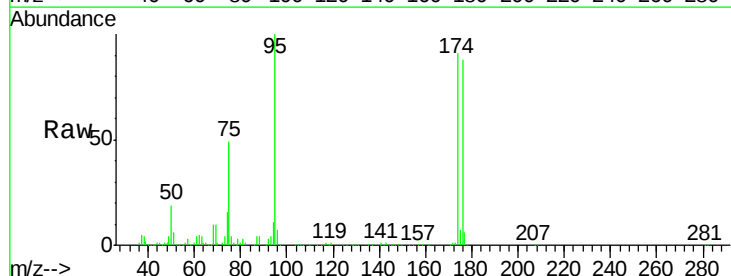
Instrument :
MSVOA_N
ClientSampleId :
PB111251ZHE#03

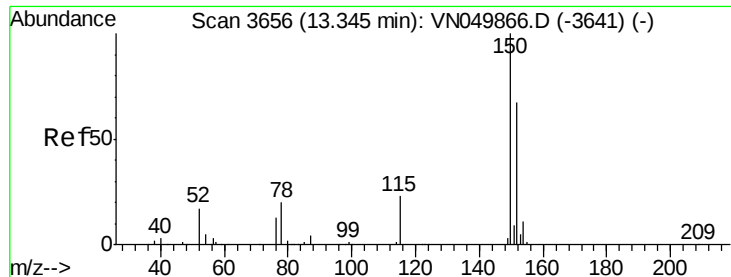
Tot Ion:117 Resp: 808193
Ion Ratio Lower Upper
117 100
82 53.9 41.9 62.9
119 33.0 25.4 38.2



#71
Bromoform
Concen: 0.49 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.28 min
Lab File: VN049916.D
Acq: 19 Jul 2018 15:07

Tgt Ion:173 Resp: 2756
Ion Ratio Lower Upper
173 100
175 757.5 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: VN049916.D

Acq: 19 Jul 2018 15:07

Instrument :

MSVOA_N

ClientSampleId :

PB111251ZHE#03

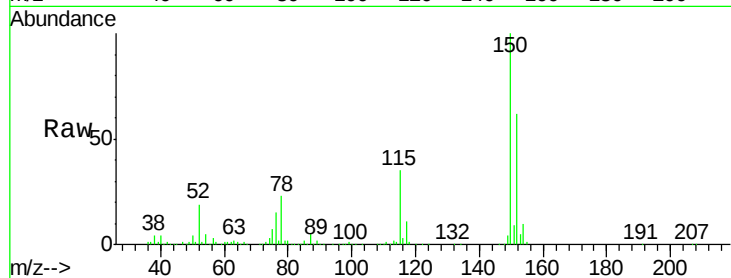
Tot Ion:152 Resp: 318345

Ion Ratio Lower Upper

152 100

115 56.0 28.1 84.2

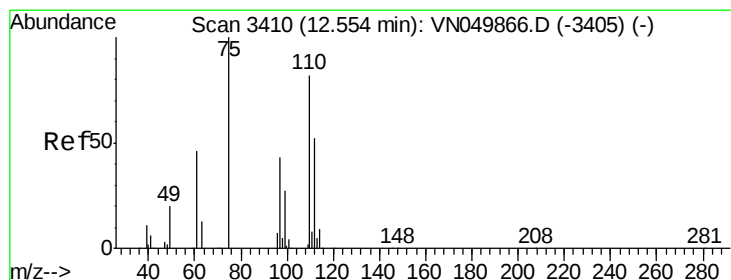
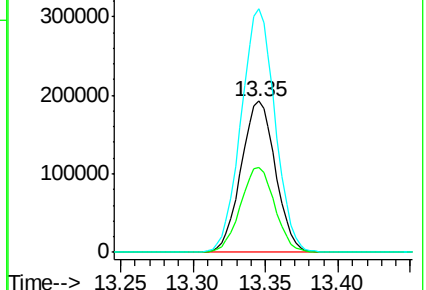
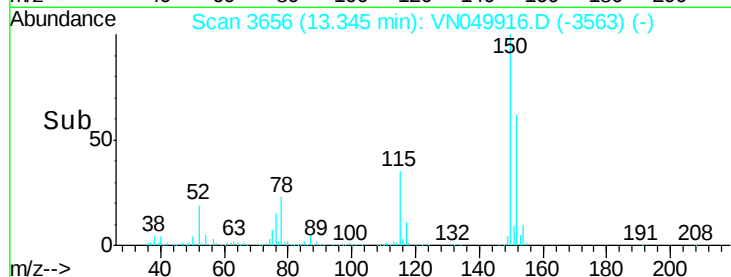
150 159.0 0.0 347.6



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: 30.31 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN049916.D

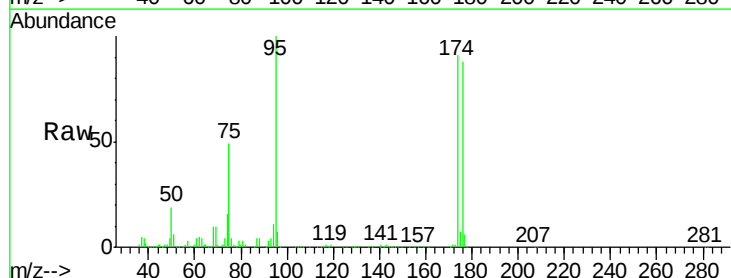
Acq: 19 Jul 2018 15:07

Tgt Ion: 75 Resp: 180979

Ion Ratio Lower Upper

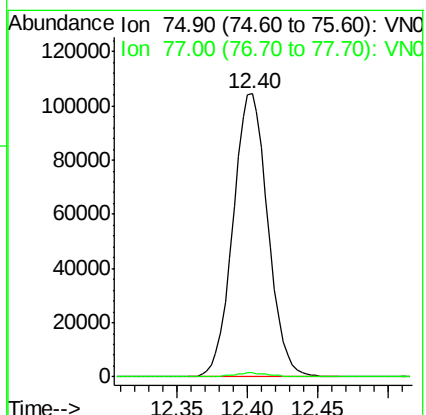
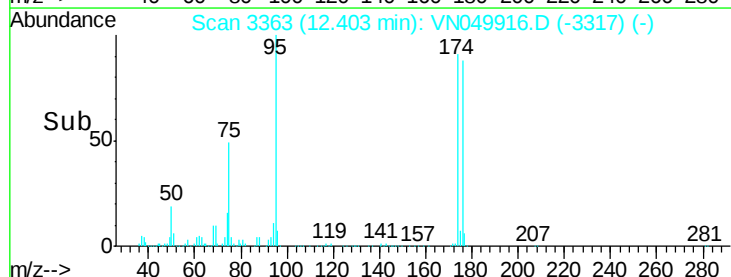
75 100

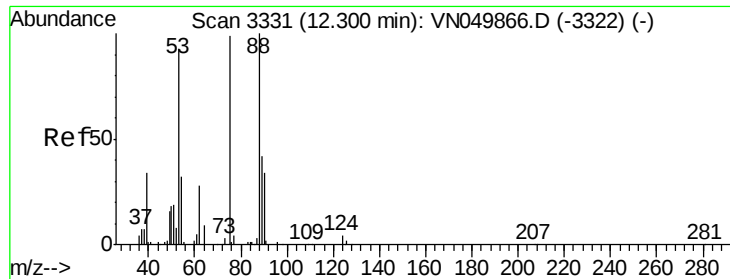
77 1.5 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 94.76 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN049916.D

Acq: 19 Jul 2018 15:07

Instrument :

MSVOA_N

ClientSampleId :

PB111251ZHE#03

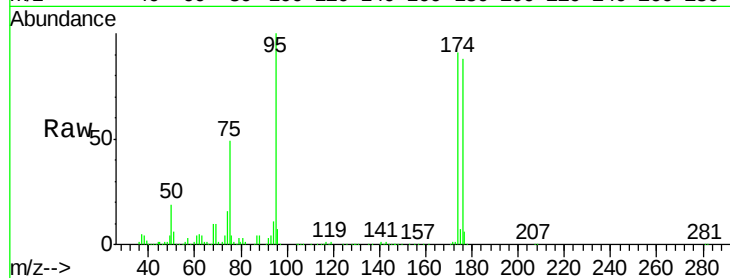
Tot Ion: 75 Resp: 180979

Ion Ratio Lower Upper

75 100

53 0.2 73.9 110.9#

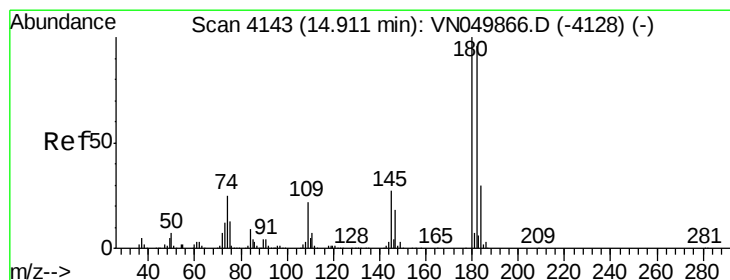
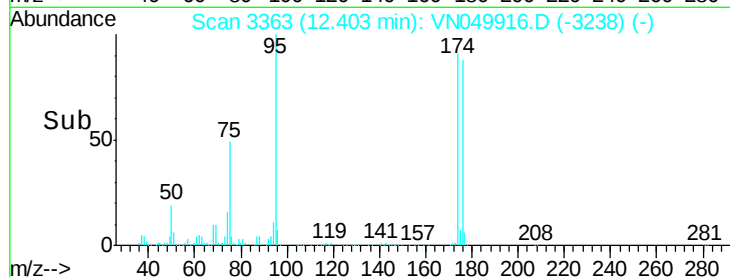
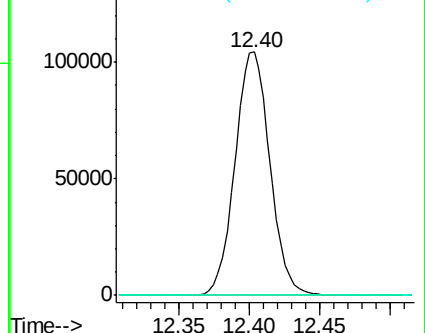
89 0.0 35.9 53.9#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



#93

1,2,4-Trichlorobenzene

Concen: 3.48 ug/l

RT: 14.91 min Scan# 4142

Delta R.T. -0.00 min

Lab File: VN049916.D

Acq: 19 Jul 2018 15:07

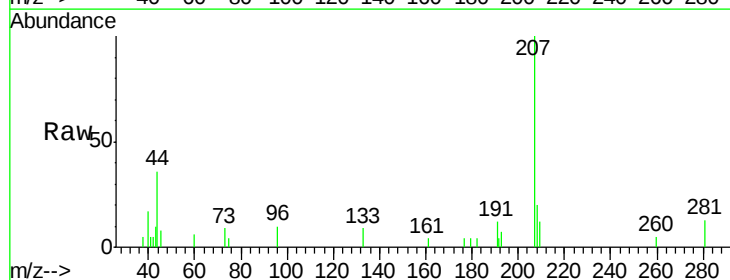
Tgt Ion: 180 Resp: 30

Ion Ratio Lower Upper

180 100

182 713.3 47.3 141.9#

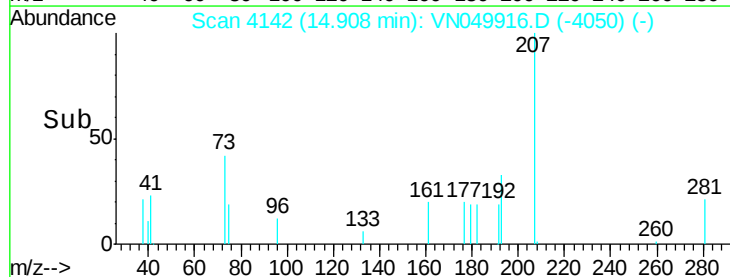
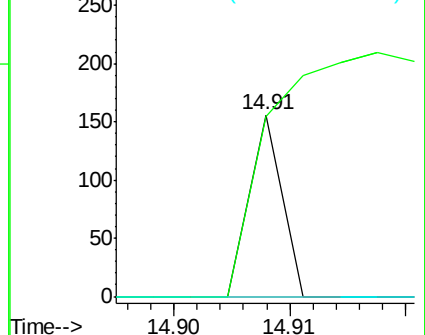
145 0.0 14.4 43.0#

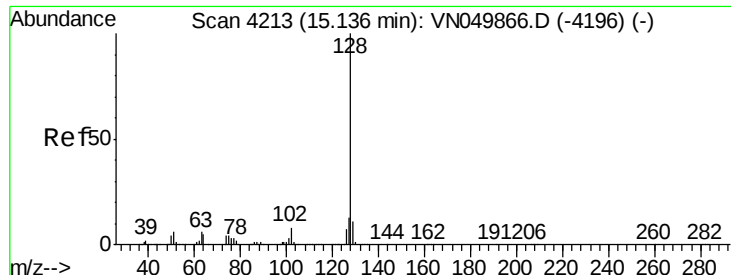


Abundance Ion 179.80 (179.50 to 180.50): V

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: 15.13 min Scan# 4210

Delta R.T. -0.01 min

Lab File: VN049916.D

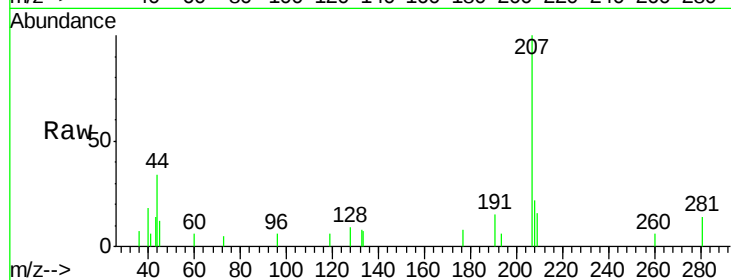
Acq: 19 Jul 2018 15:07

Instrument :

MSVOA_N

ClientSampleId :

PB111251ZHE#03



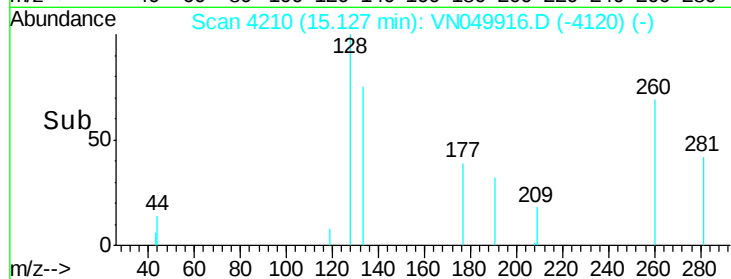
Tot Ion:128 Resp: 249

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

Time-->

15.11 15.12 15.13

15.13

200

100

0