

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071318\
 Data File : VN049802.D
 Acq On : 13 Jul 2018 17:27
 Operator : MD\SY
 Sample : PB111069ZHE#05
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB111069ZHE#05

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

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1165523	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1879736	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1556225	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	579495	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	789272	58.21	ug/l	0.00
Spiked Amount	50.000		Recovery	=	116.42%	
35) Dibromofluoromethane	7.59	113	714097	50.40	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.80%	
50) Toluene-d8	10.09	98	2520826	51.97	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.94%	
62) 4-Bromofluorobenzene	12.40	95	698519	40.32	ug/l	0.00
Spiked Amount	50.000		Recovery	=	80.64%	

Target Compounds

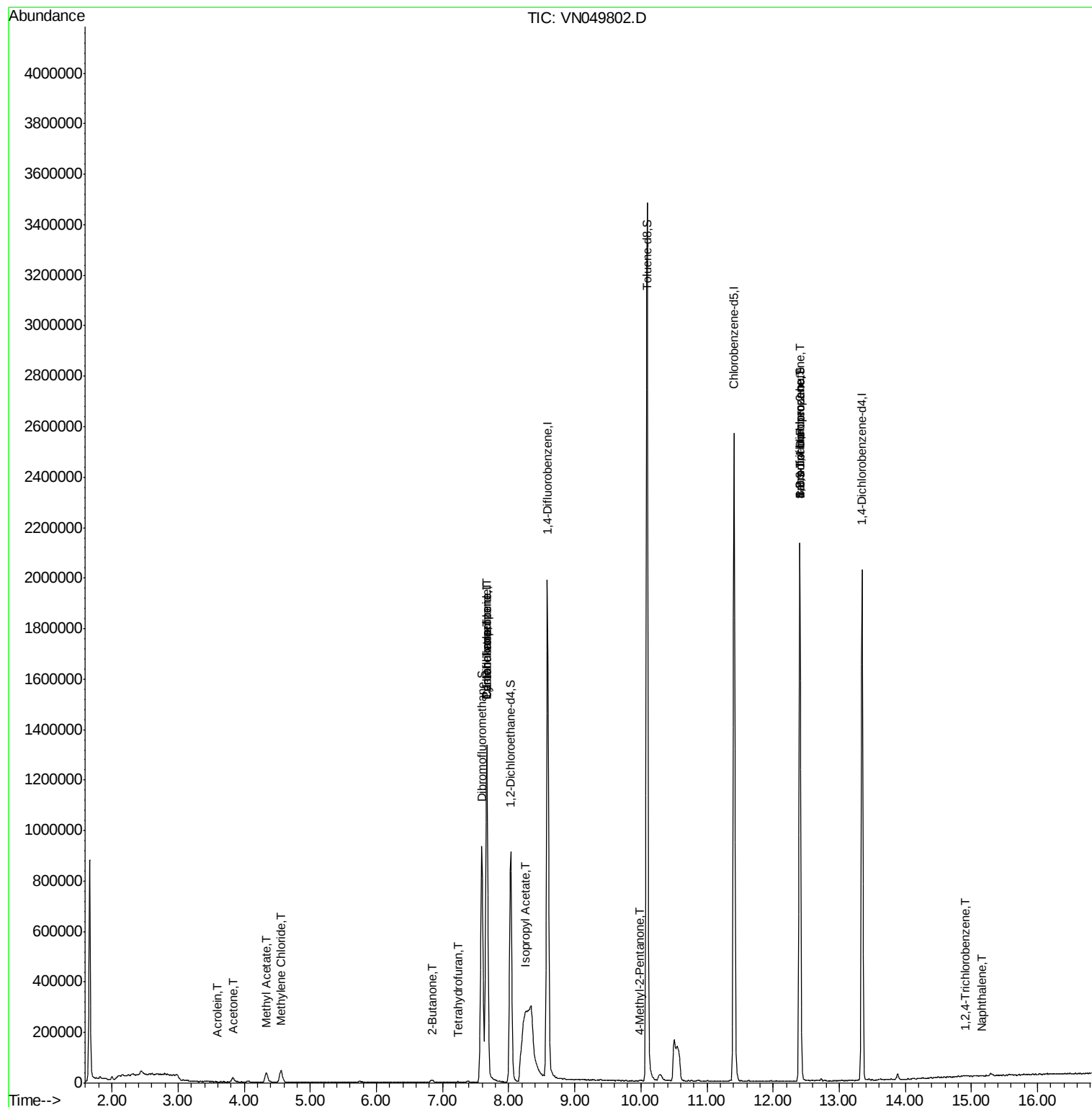
						Qvalue
2) Dichlorodifluoromethane	1.85	85	253	Below Cal	#	44
3) Chloromethane	2.06	50	2369	Below Cal	#	87
4) Vinyl Chloride	2.19	62	305	Below Cal	#	43
5) Bromomethane	2.57	94	1711	Below Cal		81
13) Acrolein	3.61	56	178	0.22	ug/l	87
16) Acetone	3.83	43	30025	6.98	ug/l	96
17) Carbon Disulfide	4.05	76	2388	Below Cal	#	89
18) Methyl Acetate	4.33	43	71237	5.64	ug/l	97
20) Methylene Chloride	4.56	84	35677	1.68	ug/l	94
25) 2-Butanone	6.84	43	3522	0.67	ug/l	# 81
29) Tetrahydrofuran	7.22	42	1553	0.47	ug/l	# 68
31) Cyclohexane	7.67	56	21324	0.76	ug/l	# 1
36) 1,1-Dichloropropene	7.67	75	79946	3.69	ug/l	# 49
38) Carbon Tetrachloride	7.67	117	102104	4.51	ug/l	# 17
43) Isopropyl Acetate	8.26	43	443621	19.25	ug/l	# 62
51) 4-Methyl-2-Pentanone	10.00	43	3608	0.29	ug/l	# 72
55) 1,1,2-Trichloroethane	10.57	97	419	Below Cal	#	15
71) Bromoform	12.41	173	5527	0.54	ug/l	# 1
75) 1,1,2,2-Tetrachloroethane	12.51	83	116	Below Cal	#	25
76) 1,2,3-Trichloropropane	12.40	75	342900	33.31	ug/l	# 100
81) trans-1,4-Dichloro-2-buten	12.40	75	342900	107.57	ug/l	# 13
90) Hexachloroethane	13.67	117	62	Below Cal	#	4
92) 1,2-Dibromo-3-Chloropropan	14.26	75	743	Below Cal	#	1
93) 1,2,4-Trichlorobenzene	14.91	180	676	2.94	ug/l	84
95) Naphthalene	15.15	128	1838	4.09	ug/l	# 81

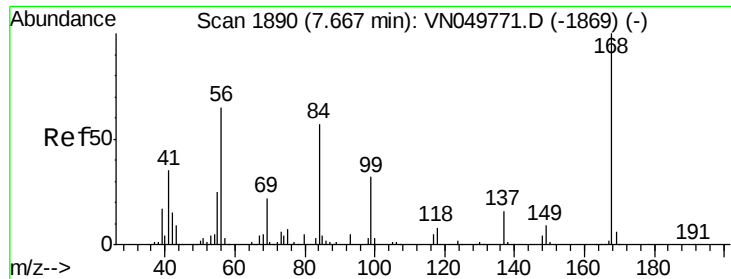
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Jul 12 15:51:38 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.00 min

Lab File: VN049802.D

Acq: 13 Jul 2018 17:27

Instrument :

MSVOA_N

ClientSampleId :

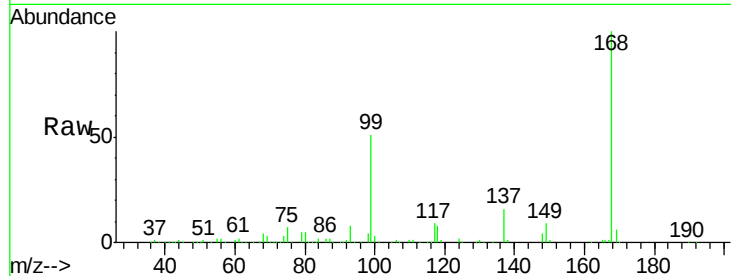
PB111069ZHE#05

Tot Ion:168 Resp: 1165523

Ion Ratio Lower Upper

168 100

99 51.2 40.6 61.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

500000

400000

300000

200000

100000

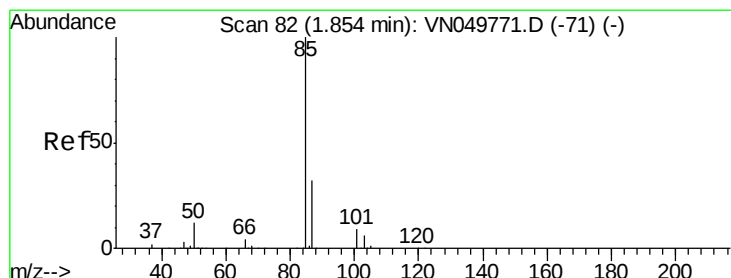
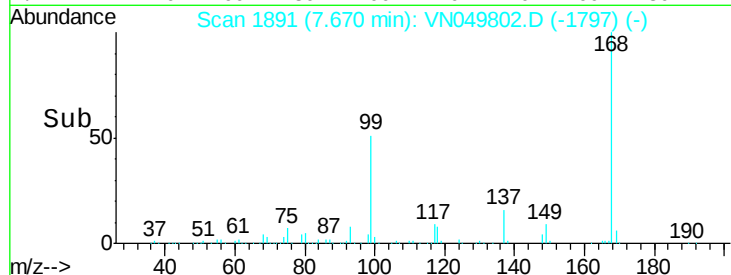
0

Time-->

7.60

7.70

7.80



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.85 min Scan# 81

Delta R.T. -0.00 min

Lab File: VN049802.D

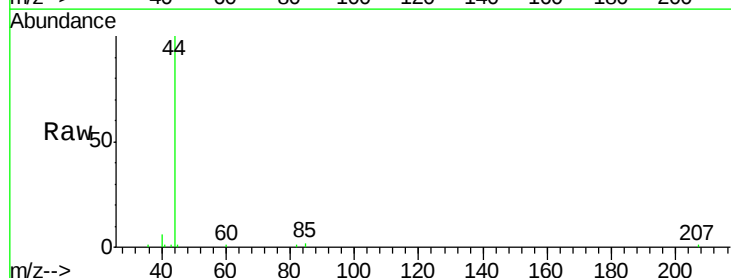
Acq: 13 Jul 2018 17:27

Tgt Ion: 85 Resp: 253

Ion Ratio Lower Upper

85 100

87 0.0 15.4 46.1#



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.85

300

200

100

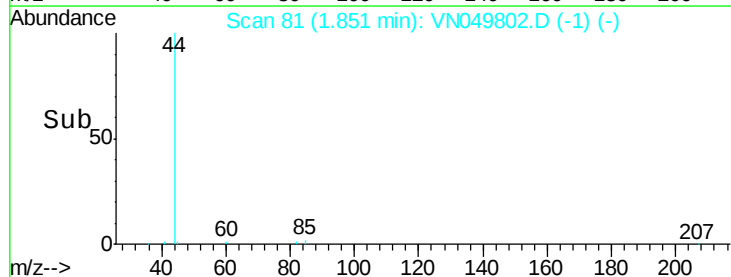
0

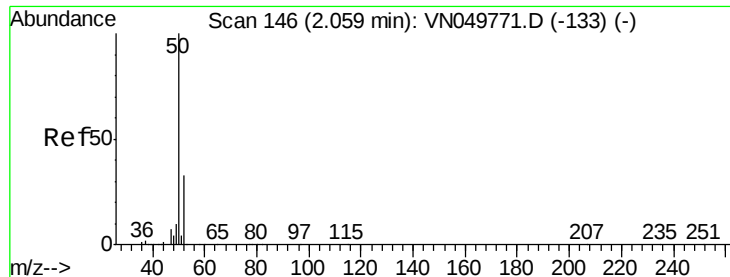
Time-->

1.84

1.86

1.88





#3

Chloromethane

Concen: Below Cal

RT: 2.06 min Scan# 147

Delta R.T. 0.00 min

Lab File: VN049802.D

Acq: 13 Jul 2018 17:27

Instrument :

MSVOA_N

ClientSampleId :

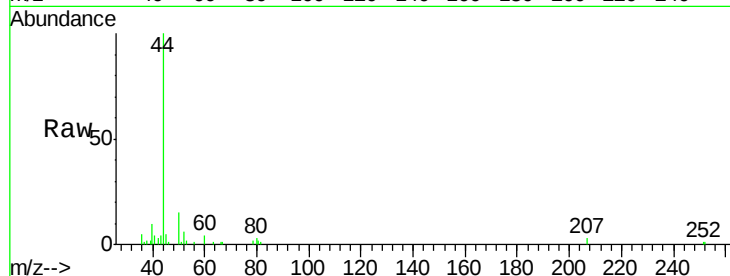
PB111069ZHE#05

Tot Ion: 50 Resp: 2369

Ion Ratio Lower Upper

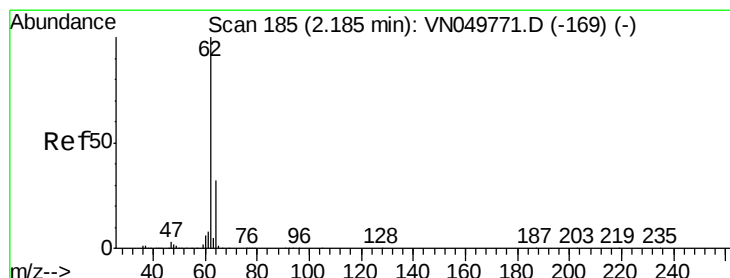
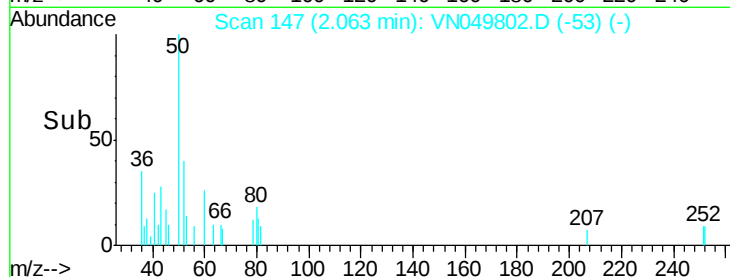
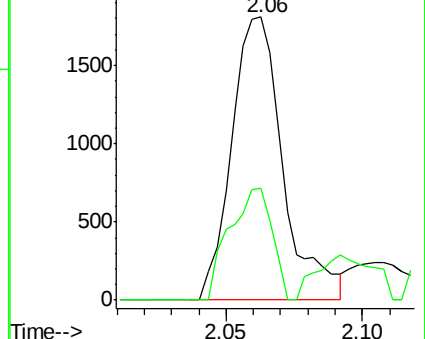
50 100

52 39.7 26.1 39.1#



Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0



#4

Vinyl Chloride

Concen: Below Cal

RT: 2.19 min Scan# 187

Delta R.T. 0.01 min

Lab File: VN049802.D

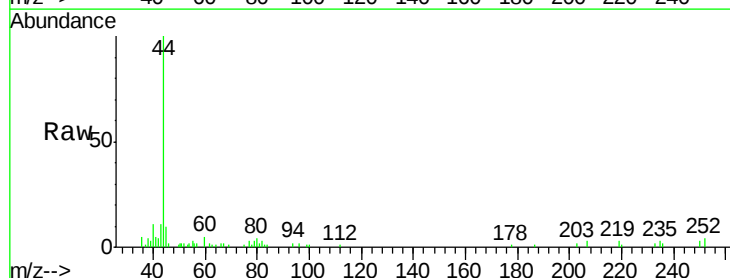
Acq: 13 Jul 2018 17:27

Tgt Ion: 62 Resp: 305

Ion Ratio Lower Upper

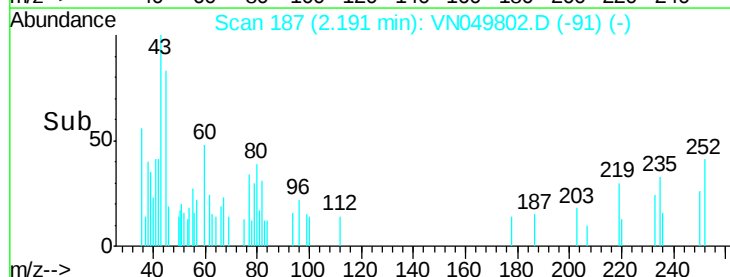
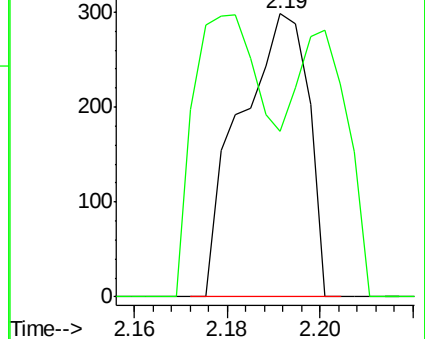
62 100

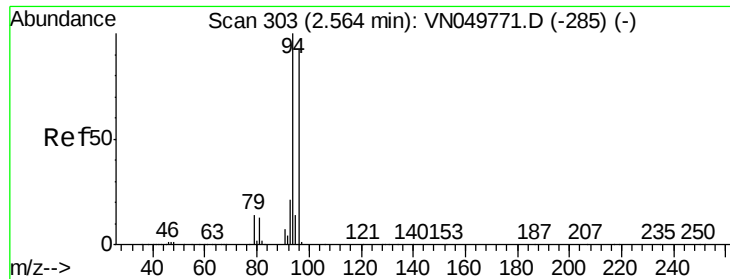
64 0.0 25.4 38.0#



Abundance Ion 61.90 (61.60 to 62.60): VN0

Ion 63.90 (63.60 to 64.60): VN0





#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 306

Delta R.T. 0.01 min

Lab File: VN049802.D

Acq: 13 Jul 2018 17:27

Instrument :

MSVOA_N

ClientSampleId :

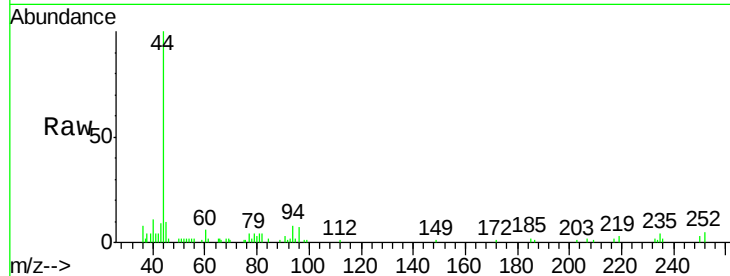
PB111069ZHE#05

Tot Ion: 94 Resp: 1711

Ion Ratio Lower Upper

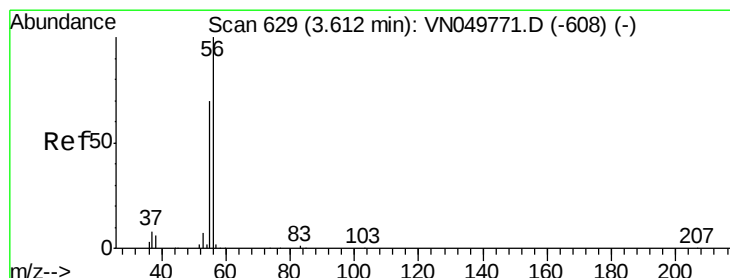
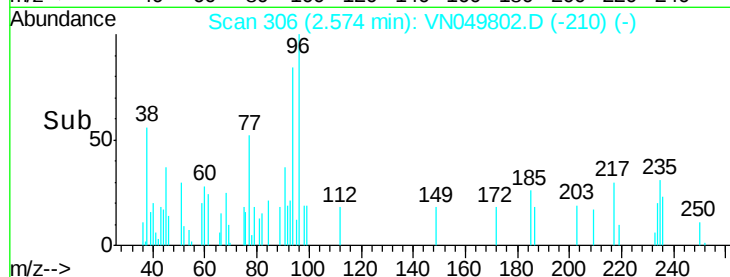
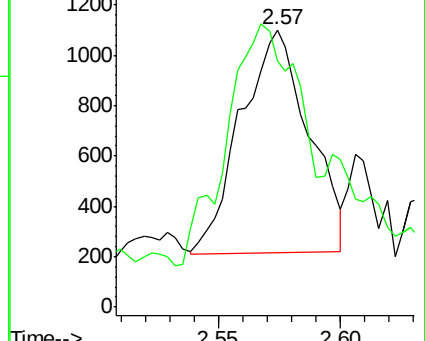
94 100

96 76.0 75.7 113.5



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#13

Acrolein

Concen: 0.22 ug/l

RT: 3.61 min Scan# 627

Delta R.T. -0.01 min

Lab File: VN049802.D

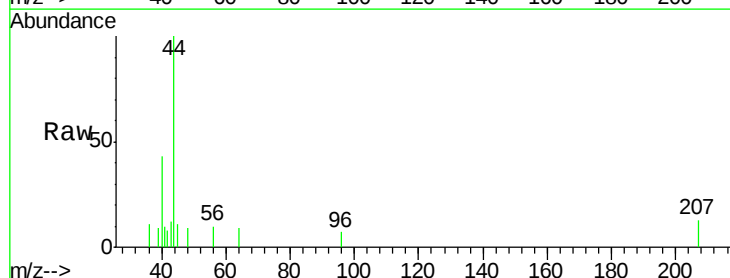
Acq: 13 Jul 2018 17:27

Tgt Ion: 56 Resp: 178

Ion Ratio Lower Upper

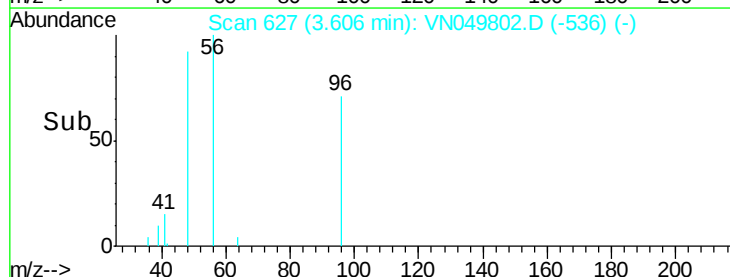
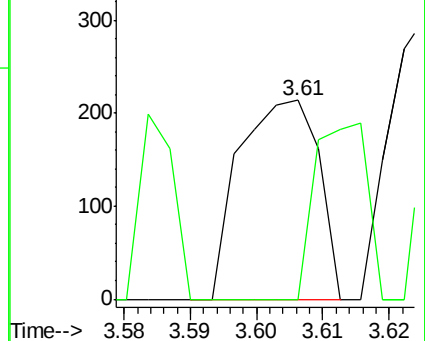
56 100

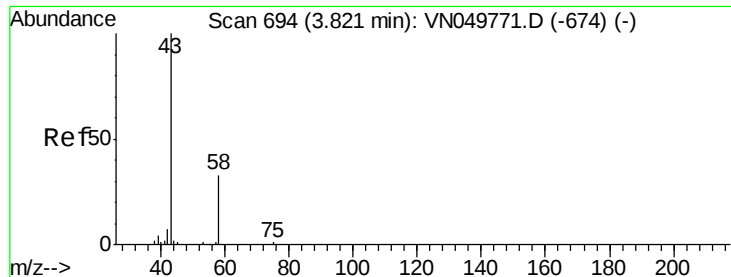
55 59.0 55.8 83.8



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0





#16

Acetone

Concen: 6.98 ug/l

RT: 3.83 min Scan# 697

Delta R.T. 0.01 min

Lab File: VN049802.D

Acq: 13 Jul 2018 17:27

Instrument :

MSVOA_N

ClientSampleId :

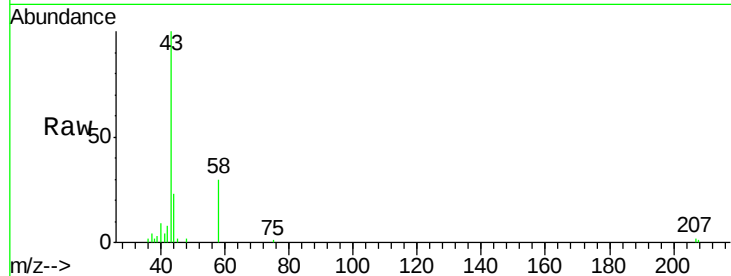
PB111069ZHE#05

Tot Ion: 43 Resp: 30025

Ion Ratio Lower Upper

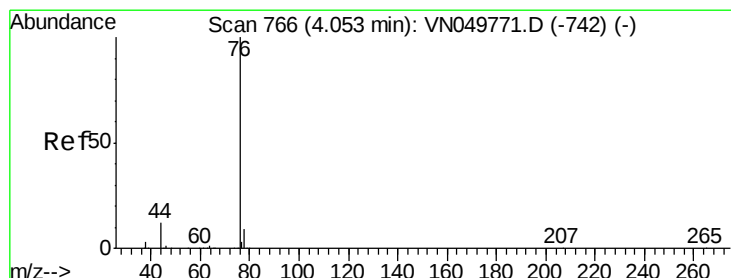
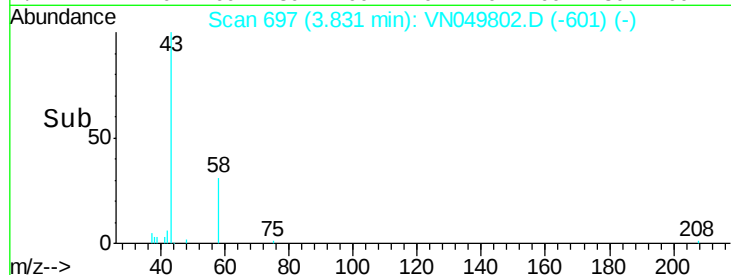
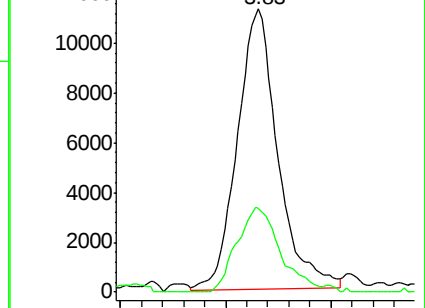
43 100

58 30.2 25.9 38.9



Abundance Ion 43.00 (42.70 to 43.70): VN049771.D (-674) (-)

Ion 58.00 (57.70 to 58.70): VN049771.D (-674) (-)



#17

Carbon Disulfide

Concen: Below Cal

RT: 4.05 min Scan# 764

Delta R.T. -0.01 min

Lab File: VN049802.D

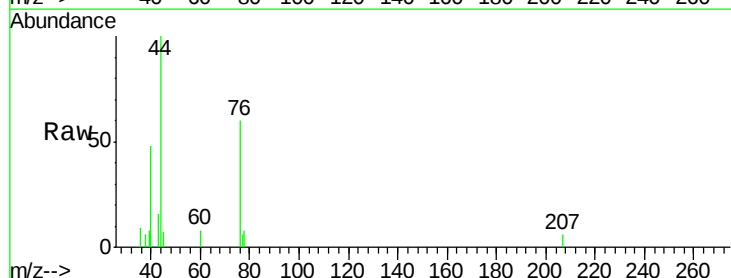
Acq: 13 Jul 2018 17:27

Tgt Ion: 76 Resp: 2388

Ion Ratio Lower Upper

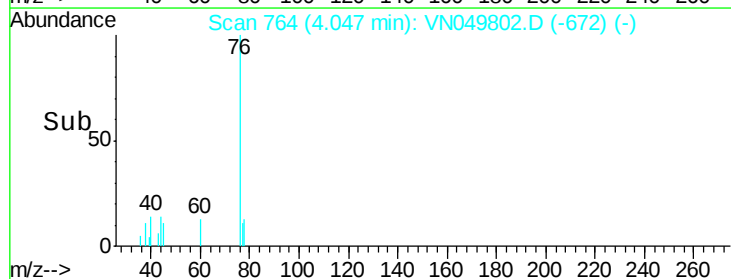
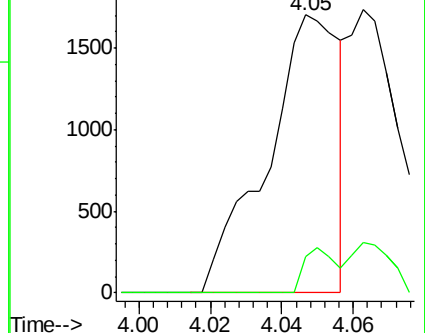
76 100

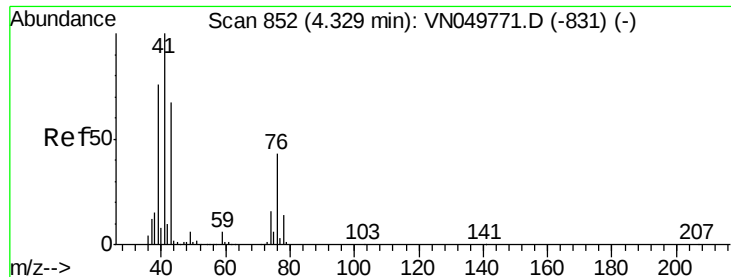
78 13.0 7.1 10.7#



Abundance Ion 75.90 (75.60 to 76.60): VN049771.D (-742) (-)

Ion 77.90 (77.60 to 78.60): VN049771.D (-742) (-)

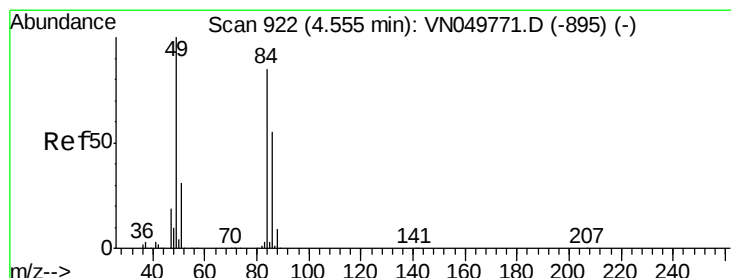
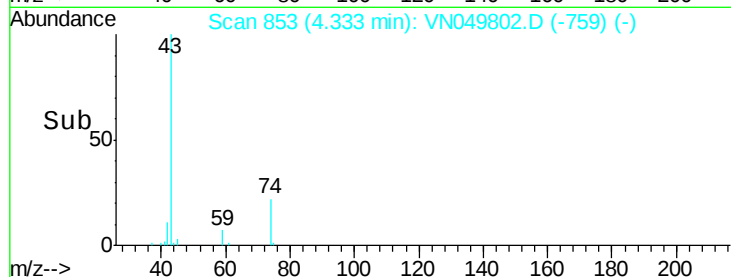
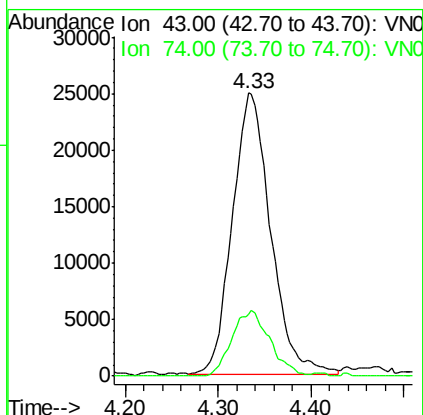
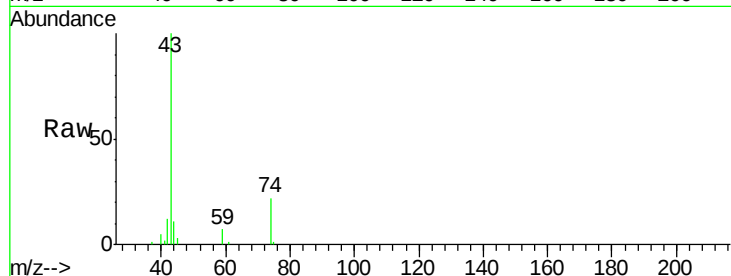




#18
Methvl Acetate
Concen: 5.64 ug/l
RT: 4.33 min Scan# 853
Delta R.T. 0.00 min
Lab File: VN049802.D
Acq: 13 Jul 2018 17:27

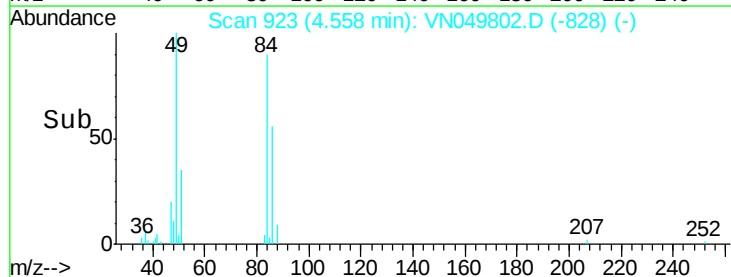
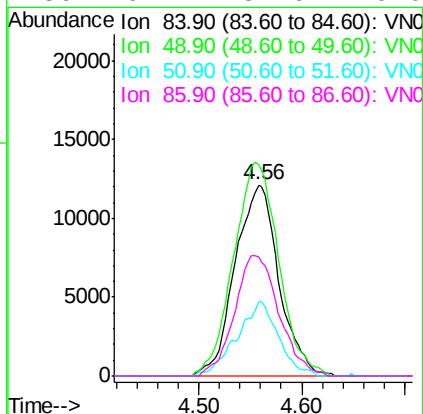
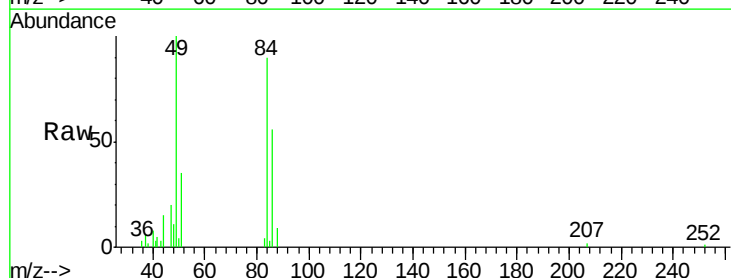
Instrument :
MSVOA_N
ClientSampleId :
PB111069ZHE#05

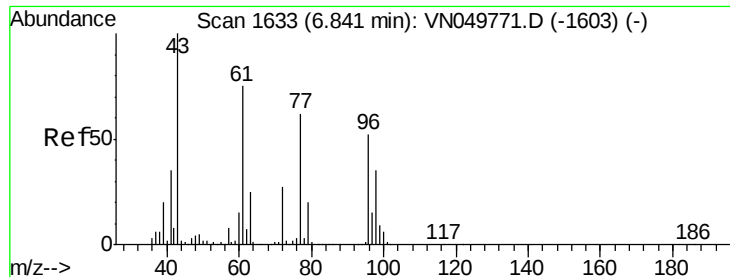
Tot Ion: 43 Resp: 71237
Ion Ratio Lower Upper
43 100
74 23.3 19.8 29.8



#20
Methylene Chloride
Concen: 1.68 ug/l
RT: 4.56 min Scan# 923
Delta R.T. 0.00 min
Lab File: VN049802.D
Acq: 13 Jul 2018 17:27

Tgt Ion: 84 Resp: 35677
Ion Ratio Lower Upper
84 100
49 110.7 95.4 143.2
51 38.7 28.4 42.6
86 62.2 52.6 79.0





#25

2-Butanone

Concen: 0.67 ug/l

RT: 6.84 min Scan# 1632

Delta R.T. -0.00 min

Lab File: VN049802.D

Acq: 13 Jul 2018 17:27

Instrument :

MSVOA_N

ClientSampleId :

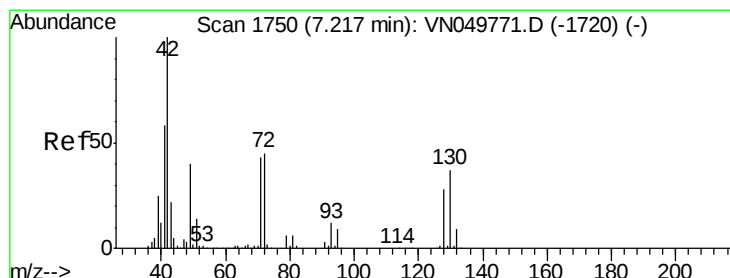
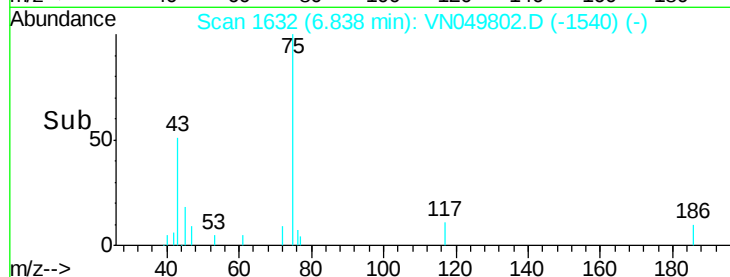
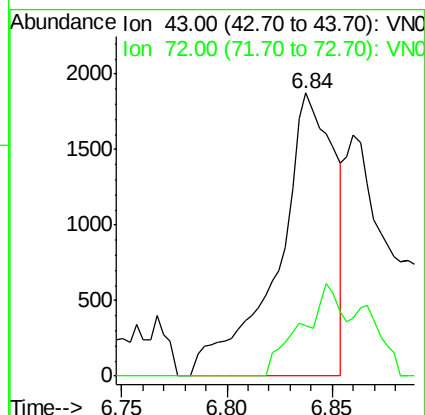
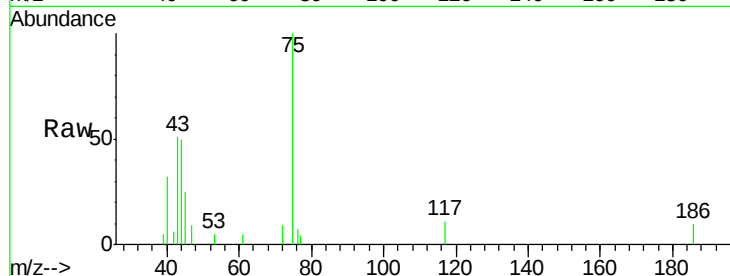
PB111069ZHE#05

Tot Ion: 43 Resp: 3522

Ion Ratio Lower Upper

43 100

72 17.8 22.1 33.1#



#29

Tetrahydrofuran

Concen: 0.47 ug/l

RT: 7.22 min Scan# 1751

Delta R.T. 0.00 min

Lab File: VN049802.D

Acq: 13 Jul 2018 17:27

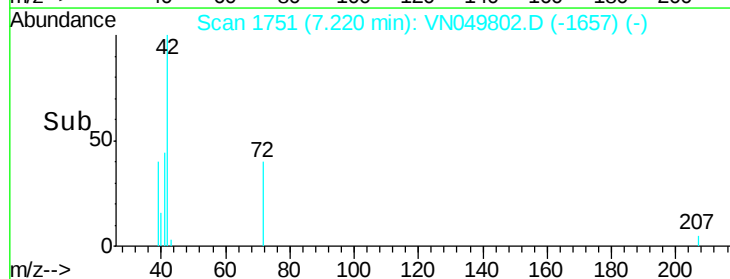
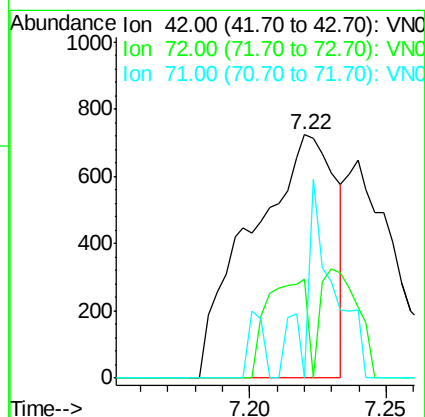
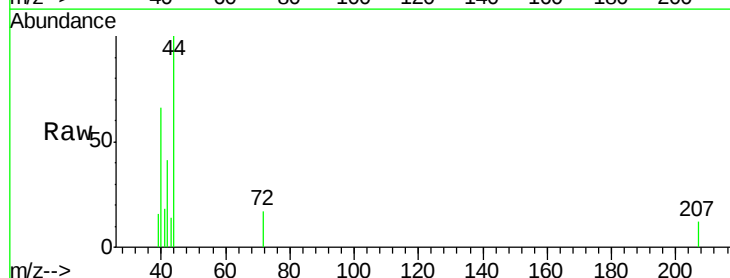
Tgt Ion: 42 Resp: 1553

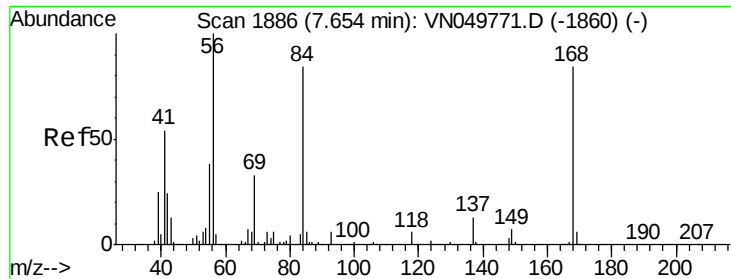
Ion Ratio Lower Upper

42 100

72 19.3 35.6 53.4#

71 27.2 34.0 51.0#

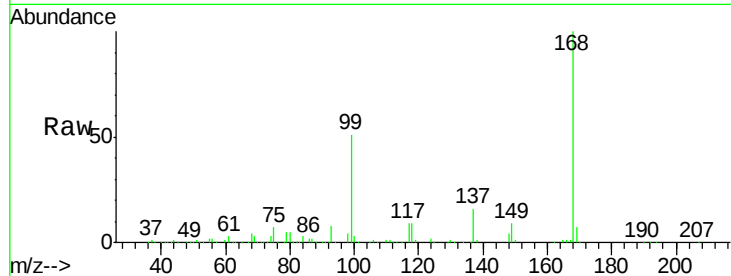




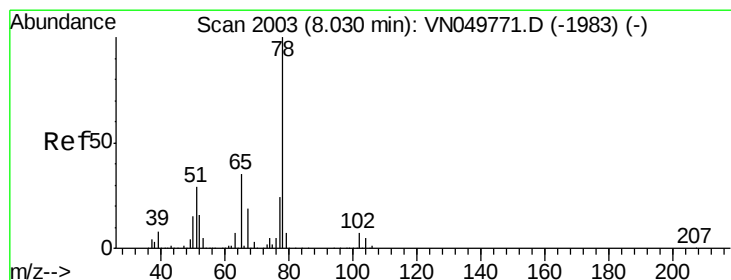
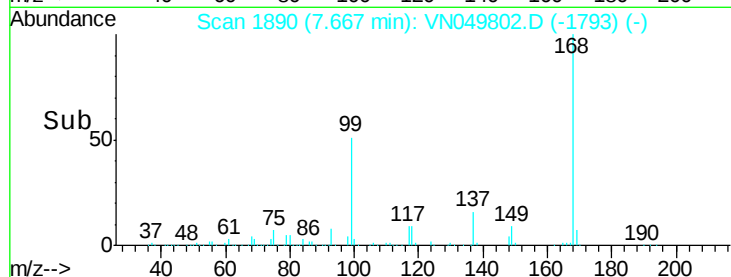
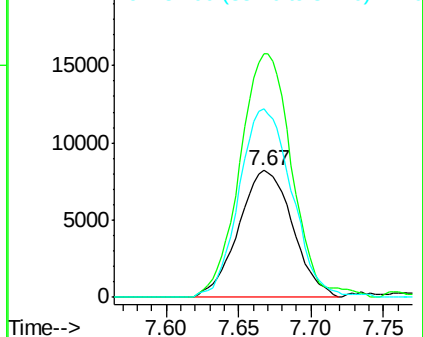
#31
Cyclohexane
Concen: 0.76 ug/l
RT: 7.67 min Scan# 1890
Delta R.T. 0.01 min
Lab File: VN049802.D
Acq: 13 Jul 2018 17:27

Instrument :
MSVOA_N
ClientSampleId :
PB111069ZHE#05

Tot Ion: 56 Resp: 21324
Ion Ratio Lower Upper
56 100
69 192.0 26.6 40.0#
84 148.3 69.0 103.6#

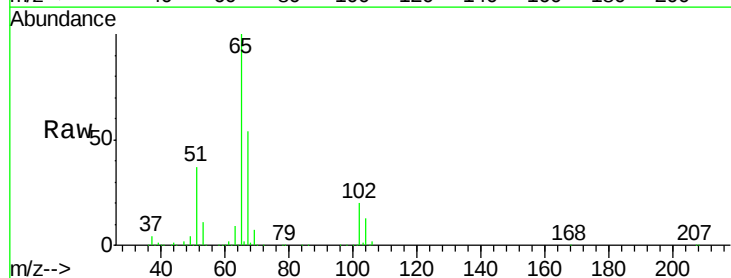


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

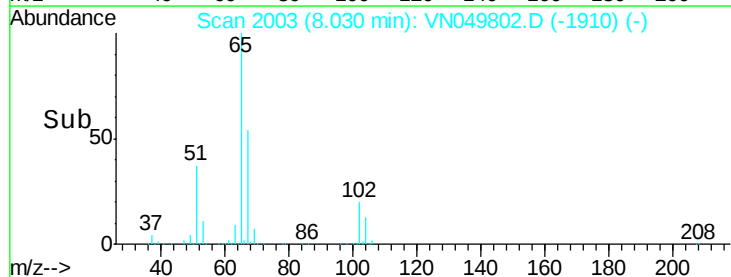
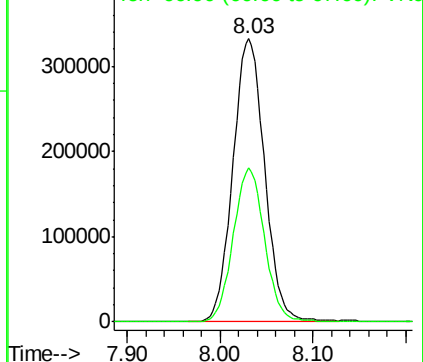


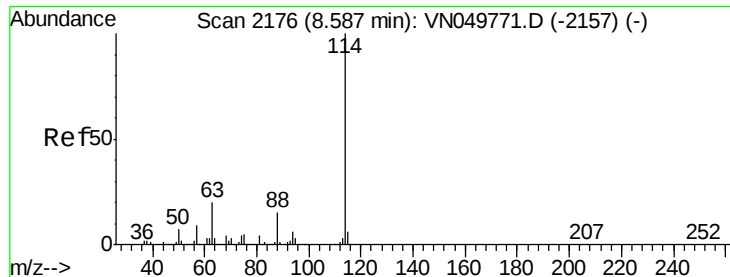
#33
1,2-Dichloroethane-d4
Concen: 58.21 ug/l
RT: 8.03 min Scan# 2003
Delta R.T. 0.00 min
Lab File: VN049802.D
Acq: 13 Jul 2018 17:27

Tgt Ion: 65 Resp: 789272
Ion Ratio Lower Upper
65 100
67 53.6 0.0 107.2



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

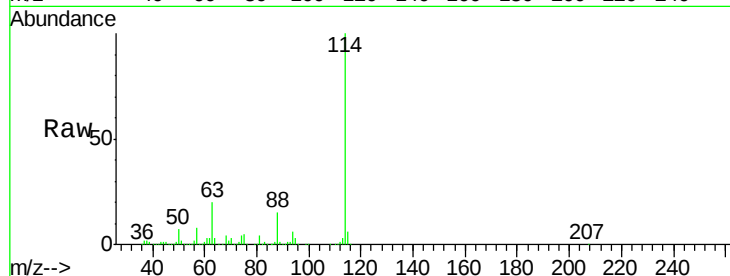




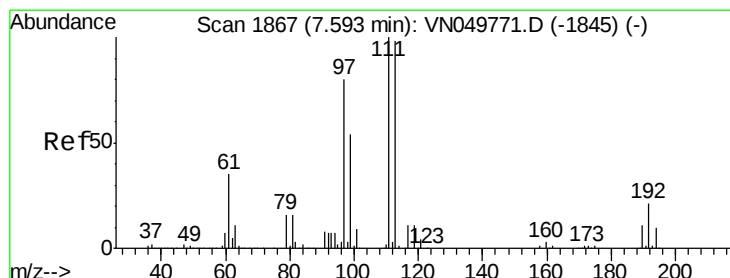
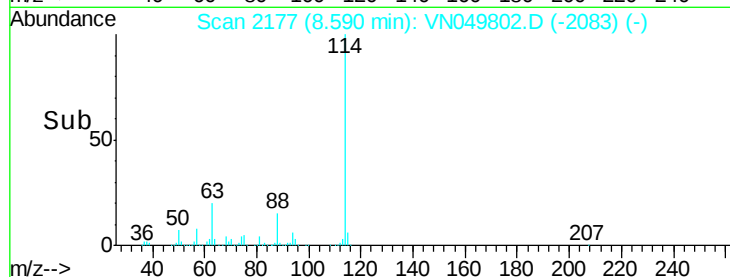
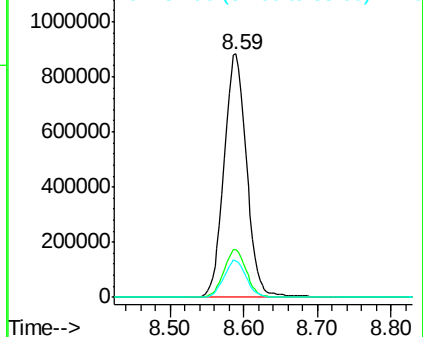
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VN049802.D
 Acq: 13 Jul 2018 17:27

Instrument :
 MSVOA_N
 ClientSampleId :
 PB111069ZHE#05

Tot Ion:114 Resp: 1879736
 Ion Ratio Lower Upper
 114 100
 63 19.7 0.0 39.8
 88 15.1 0.0 30.6

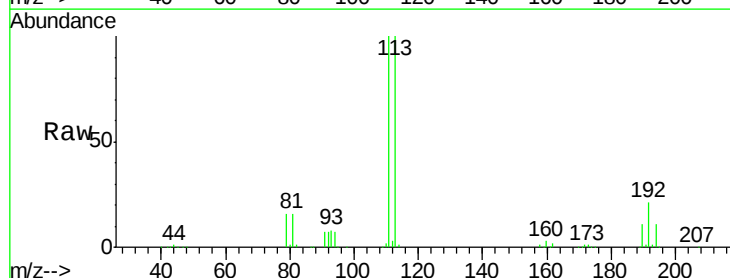


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): V
 Ion 87.90 (87.60 to 88.60): V

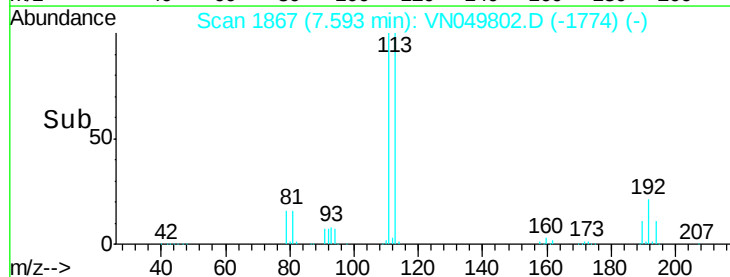
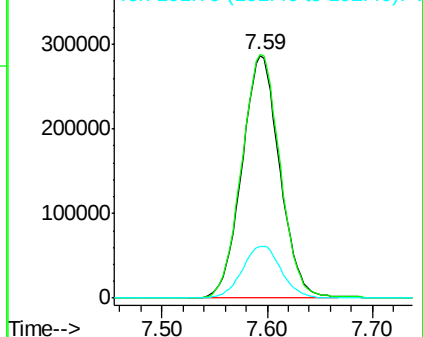


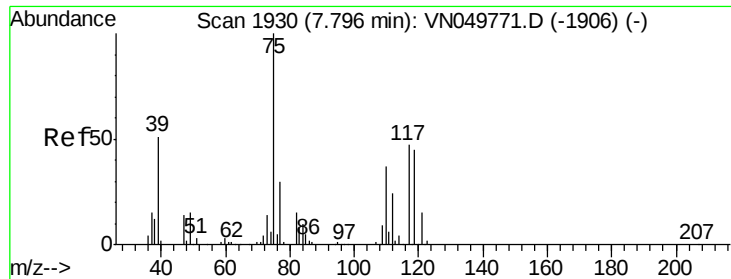
#35
 Dibromofluoromethane
 Concen: 50.40 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VN049802.D
 Acq: 13 Jul 2018 17:27

Tgt Ion:113 Resp: 714097
 Ion Ratio Lower Upper
 113 100
 111 102.2 81.8 122.8
 192 22.2 17.8 26.6



Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

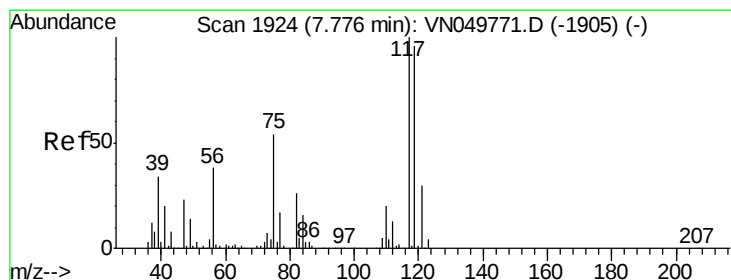
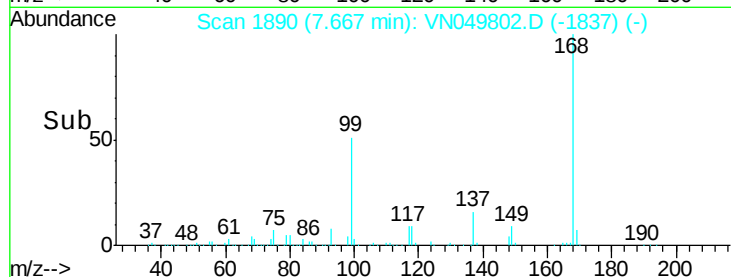
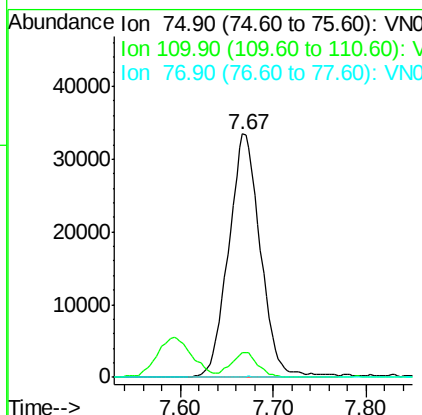
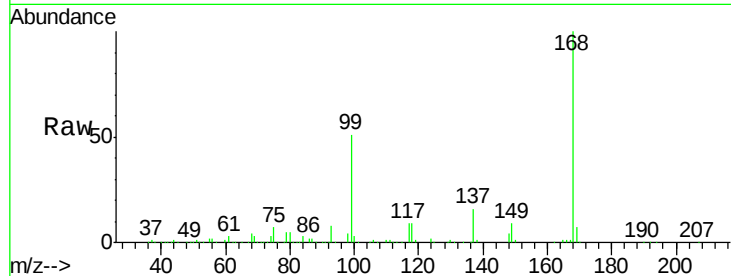




#36
 1,1-Dichloropropene
 Concen: 3.69 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.13 min
 Lab File: VN049802.D
 Acq: 13 Jul 2018 17:27

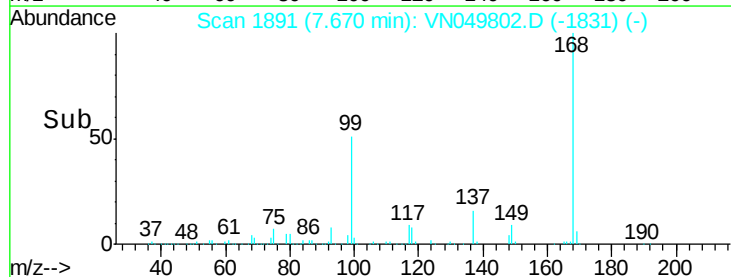
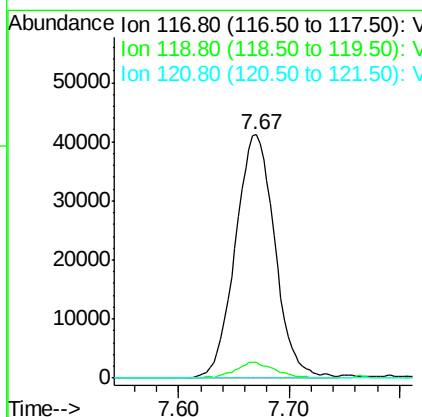
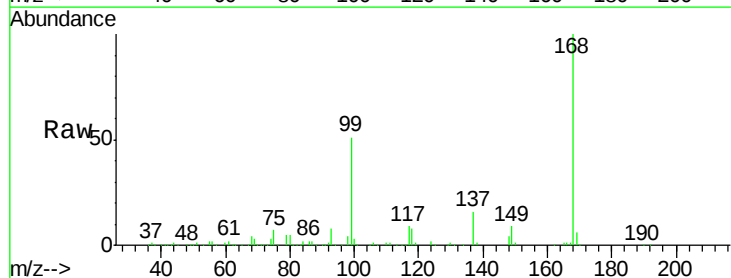
Instrument :
 MSVOA_N
 ClientSampleId :
 PB111069ZHE#05

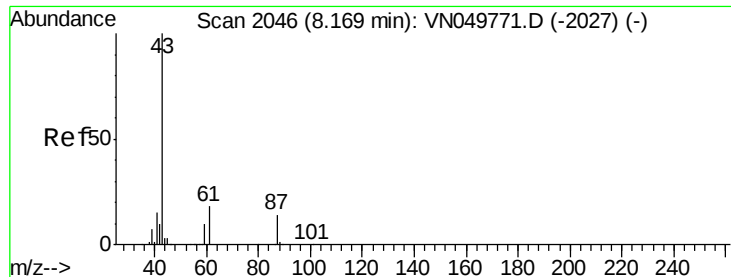
Tot Ion	75	Resp	79946
Ion Ratio	100	Lower	Upper
75	100		
110	8.6	18.1	54.4#
77	0.0	24.9	37.3#



#38
 Carbon Tetrachloride
 Concen: 4.51 ug/l
 RT: 7.67 min Scan# 1891
 Delta R.T. -0.11 min
 Lab File: VN049802.D
 Acq: 13 Jul 2018 17:27

Tgt Ion	117	Resp	102104
Ion Ratio <td>100</td> <td>Lower</td> <td>Upper</td>	100	Lower	Upper
117	100		
119	6.3	77.2	115.8#
121	0.0	25.0	37.6#



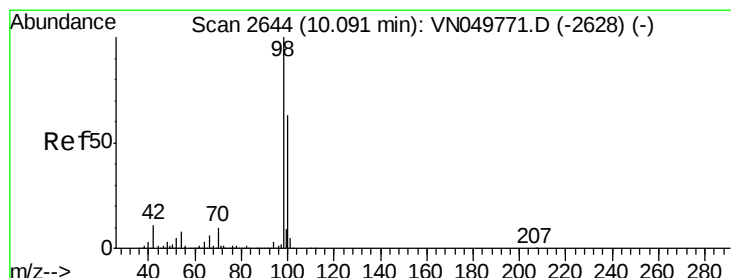
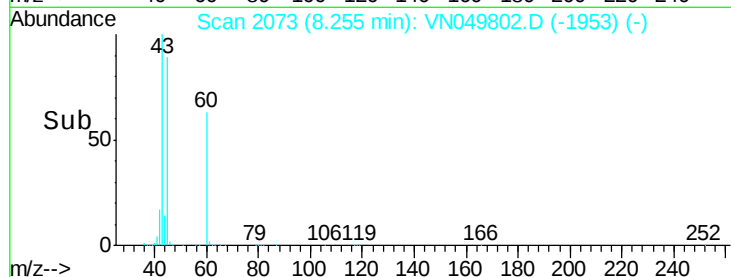
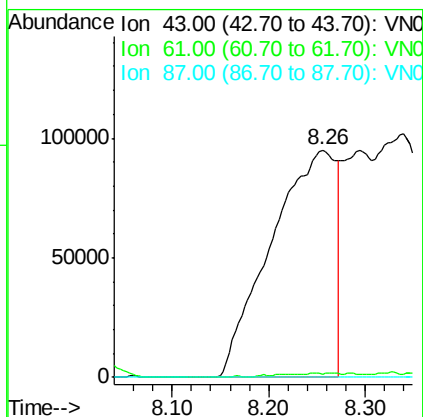
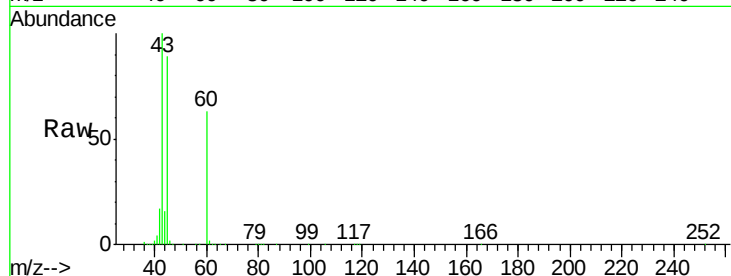


#43

Isopropyl Acetate
 Concen: 19.25 ug/l
 RT: 8.26 min Scan# 2073
 Delta R.T. 0.09 min
 Lab File: VN049802.D
 Acq: 13 Jul 2018 17:27

Instrument :
 MSVOA_N
 ClientSampleId :
 PB111069ZHE#05

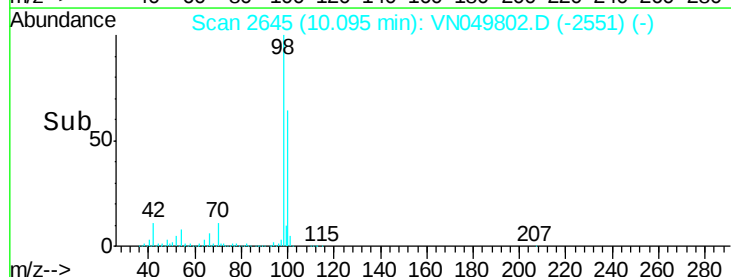
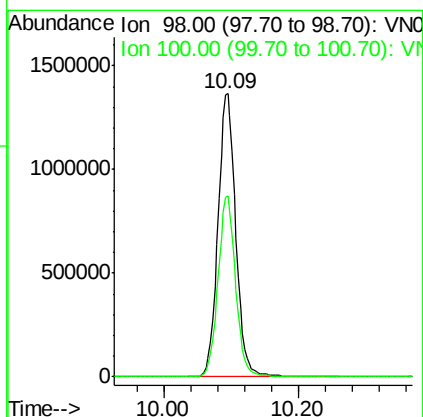
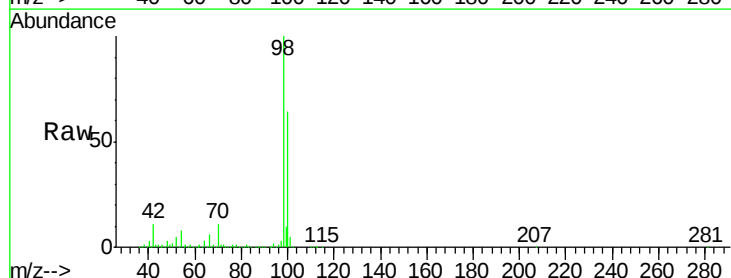
Tot Ion: 43 Resp: 443621
 Ion Ratio Lower Upper
 43 100
 61 0.0 14.9 22.3#
 87 0.0 10.0 15.0#

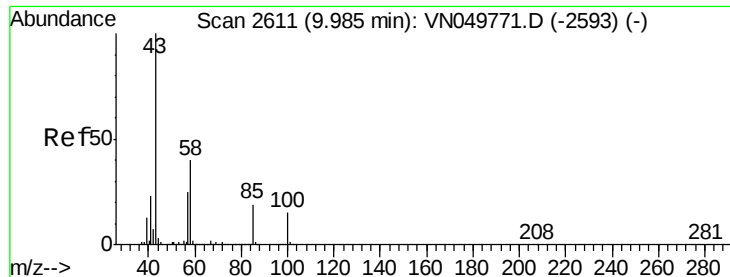


#50

Toluene-d8
 Concen: 51.97 ug/l
 RT: 10.09 min Scan# 2645
 Delta R.T. 0.00 min
 Lab File: VN049802.D
 Acq: 13 Jul 2018 17:27

Tgt Ion: 98 Resp: 2520826
 Ion Ratio Lower Upper
 98 100
 100 63.3 51.7 77.5

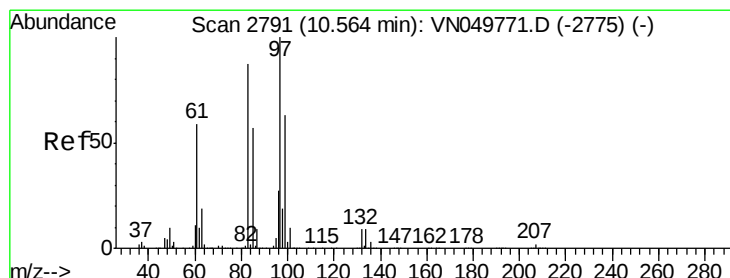
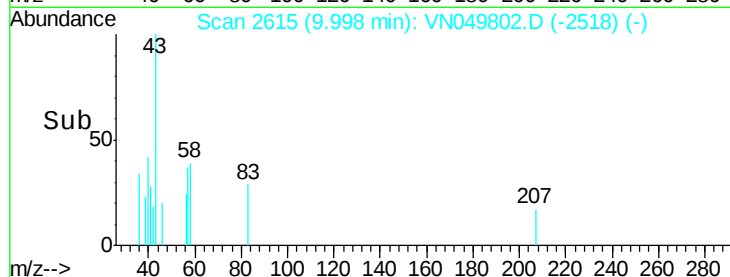
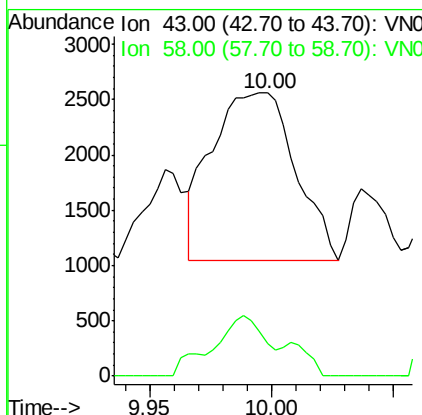
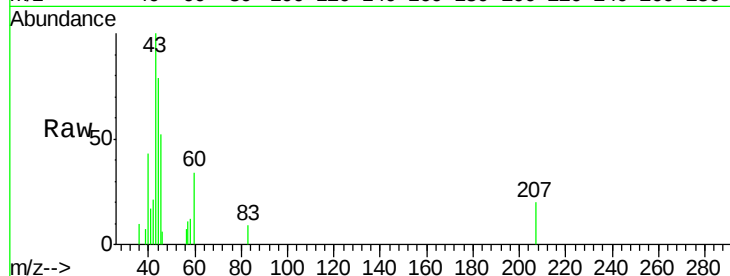




#51
4-Methyl-2-Pentanone
Concen: 0.29 ug/l
RT: 10.00 min Scan# 2615
Delta R.T. 0.01 min
Lab File: VN049802.D
Acq: 13 Jul 2018 17:27

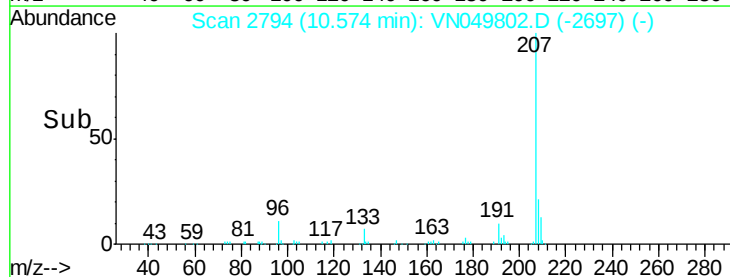
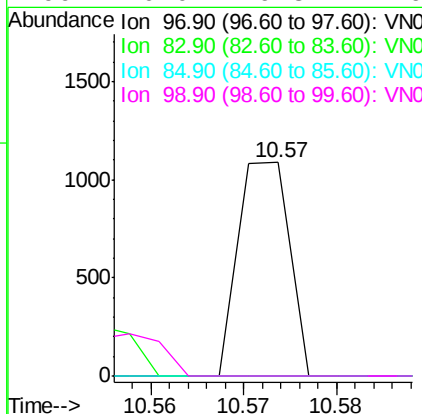
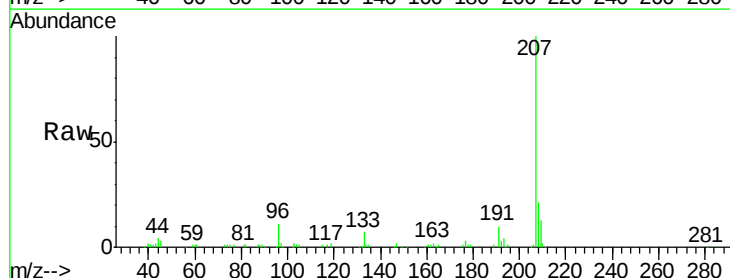
Instrument :
MSVOA_N
ClientSampleId :
PB111069ZHE#05

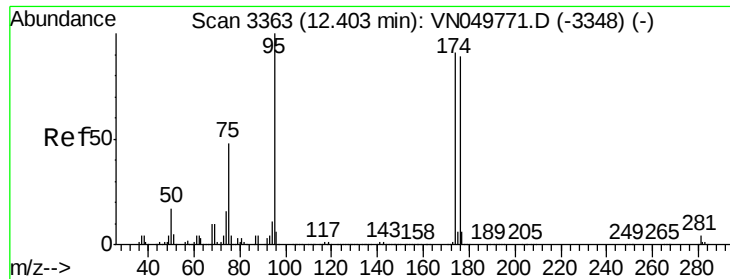
Tot Ion: 43 Resp: 3608
Ion Ratio Lower Upper
43 100
58 22.5 31.8 47.8#



#55
1,1,2-Trichloroethane
Concen: Below Cal
RT: 10.57 min Scan# 2794
Delta R.T. 0.01 min
Lab File: VN049802.D
Acq: 13 Jul 2018 17:27

Tgt Ion: 97 Resp: 419
Ion Ratio Lower Upper
97 100
83 0.0 69.0 103.6#
85 0.0 44.9 67.3#
99 0.0 49.8 74.6#

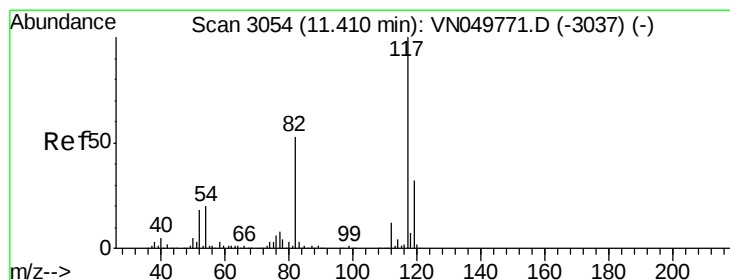
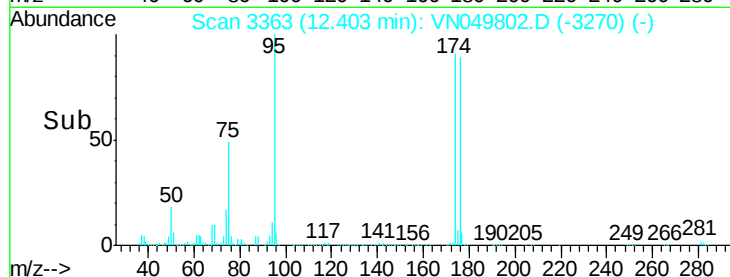
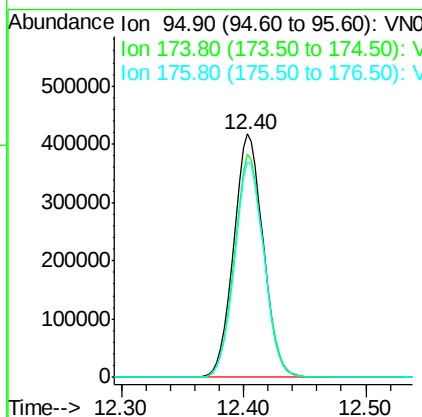
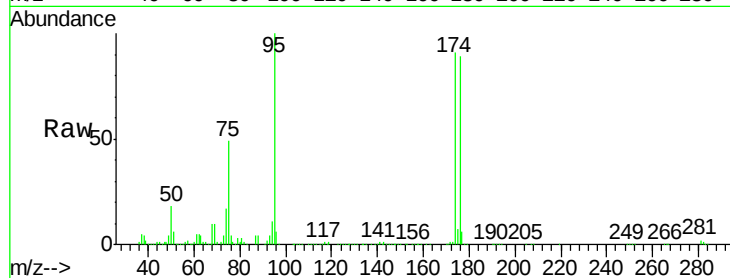




#62
4-Bromofluorobenzene
Concen: 40.32 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.00 min
Lab File: VN049802.D
Acq: 13 Jul 2018 17:27

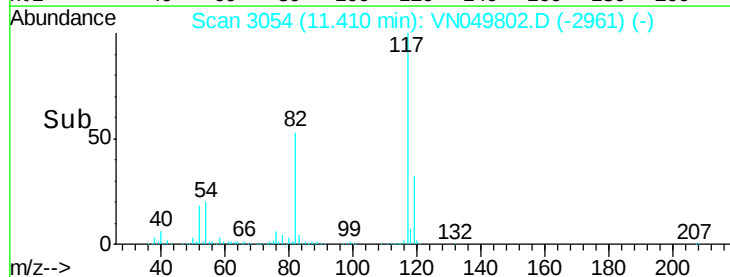
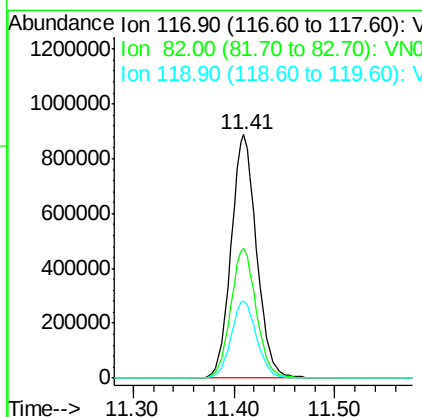
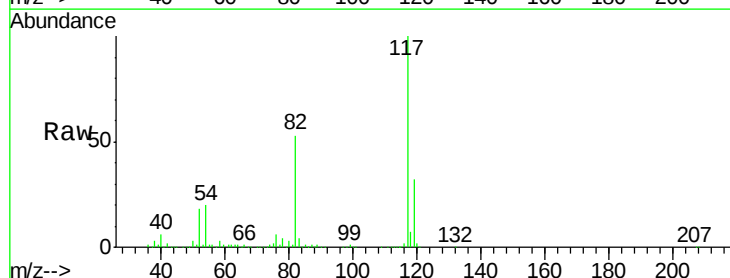
Instrument :
MSVOA_N
ClientSampleId :
PB111069ZHE#05

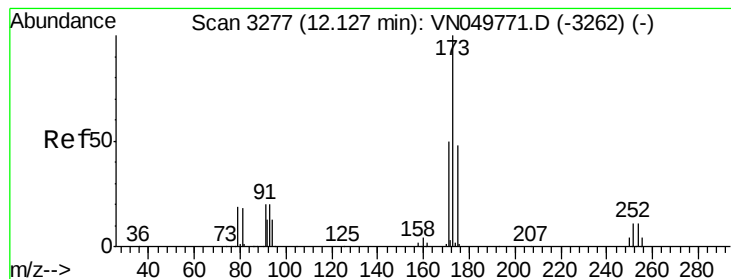
Tot Ion: 95 Resp: 698519
Ion Ratio Lower Upper
95 100
174 91.8 0.0 179.6
176 88.4 0.0 174.0



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN049802.D
Acq: 13 Jul 2018 17:27

Tgt Ion: 117 Resp: 1556225
Ion Ratio Lower Upper
117 100
82 53.5 41.9 62.9
119 31.9 25.4 38.2





#71

Bromoform

Concen: 0.54 ug/l

RT: 12.41 min Scan# 3364

Delta R.T. 0.28 min

Lab File: VN049802.D

Acq: 13 Jul 2018 17:27

Instrument :

MSVOA_N

ClientSampleId :

PB111069ZHE#05

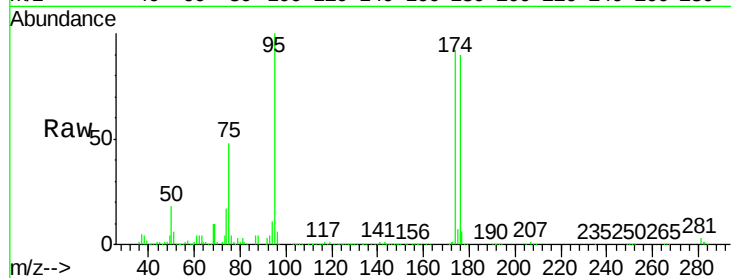
Tot Ion:173 Resp: 5527

Ion Ratio Lower Upper

173 100

175 733.3 24.6 73.8#

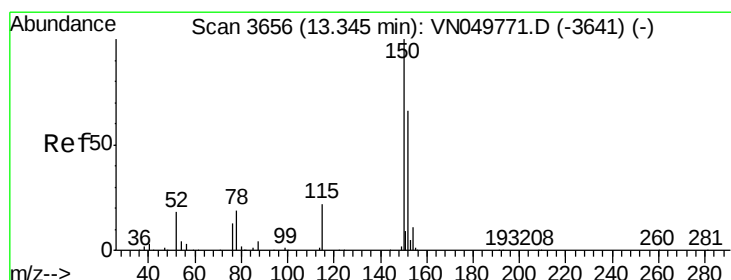
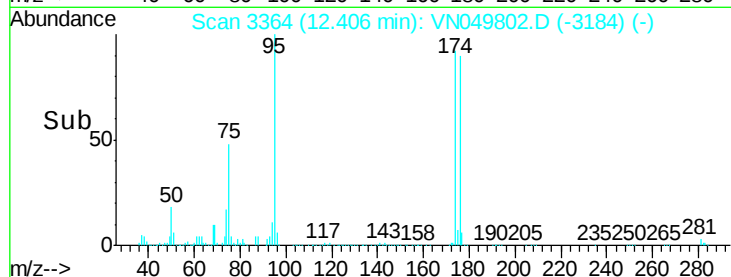
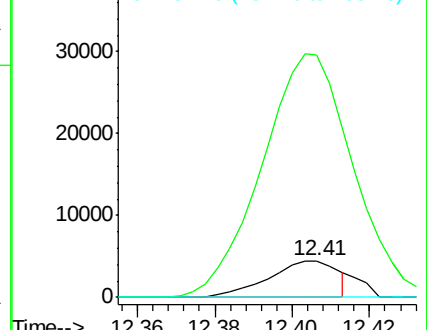
254 0.0 0.2 0.2#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. 0.00 min

Lab File: VN049802.D

Acq: 13 Jul 2018 17:27

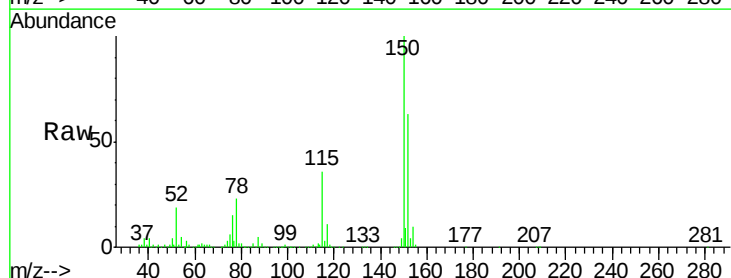
Tgt Ion:152 Resp: 579495

Ion Ratio Lower Upper

152 100

115 55.7 28.1 84.2

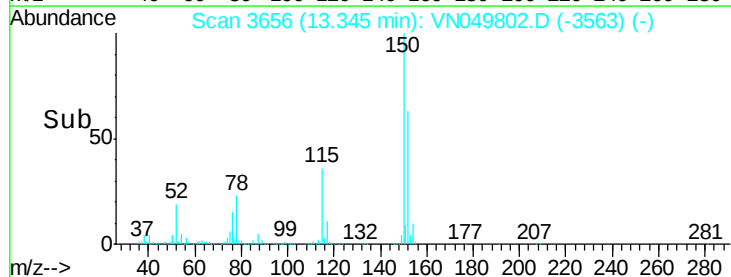
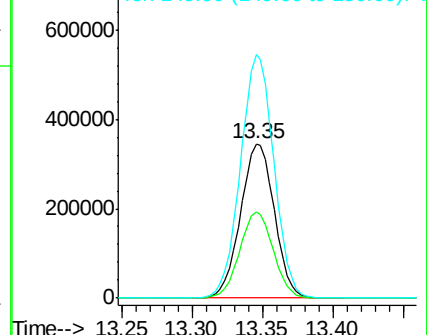
150 155.7 0.0 347.6

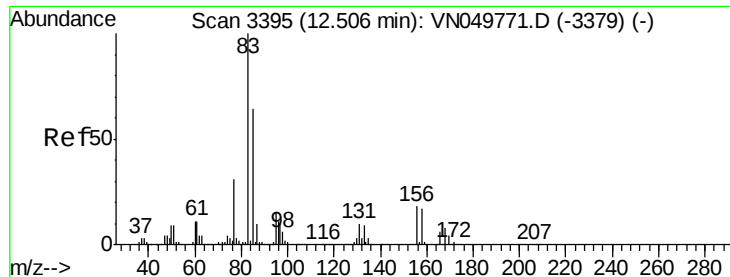


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

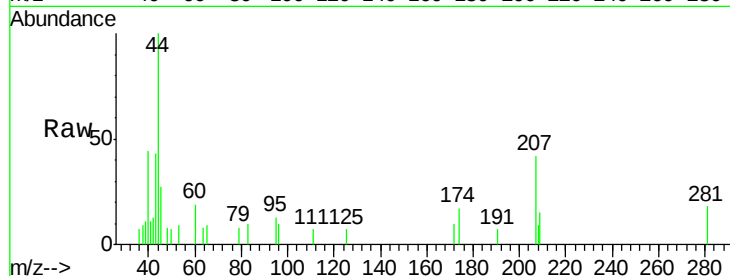




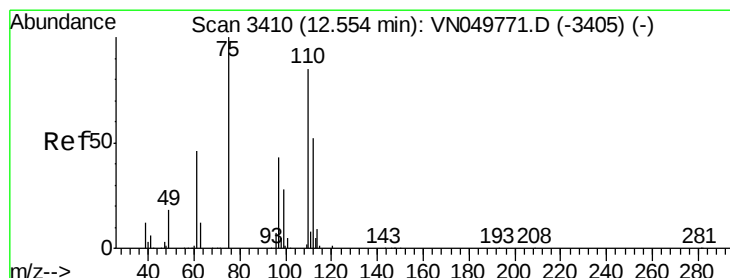
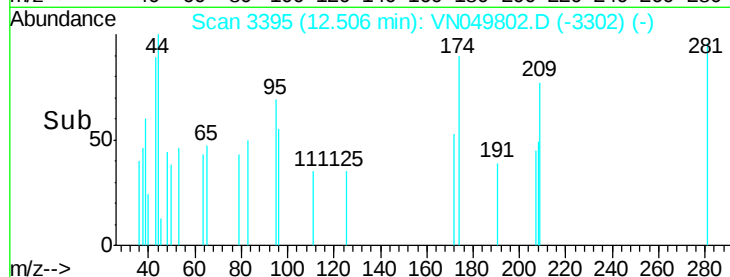
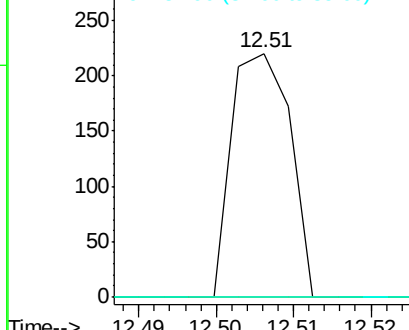
#75
 1,1,2,2-Tetrachloroethane
 Concen: Below Cal
 RT: 12.51 min Scan# 3395
 Delta R.T. 0.00 min
 Lab File: VN049802.D
 Acq: 13 Jul 2018 17:27

Instrument :
 MSVOA_N
 ClientSampleId :
 PB111069ZHE#05

Tot Ion: 83 Resp: 116
 Ion Ratio Lower Upper
 83 100
 131 0.0 5.2 15.6#
 85 0.0 32.5 97.4#

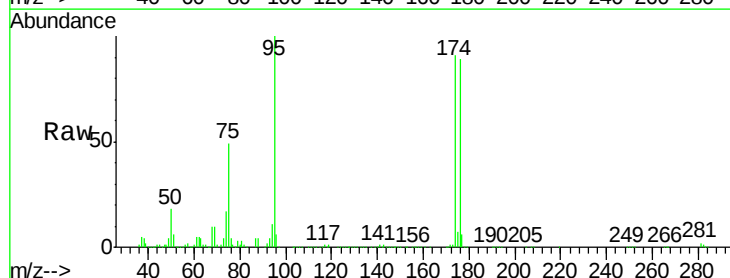


Abundance Ion 82.90 (82.60 to 83.60): VNC
 Ion 130.80 (130.50 to 131.50): VNC
 Ion 84.90 (84.60 to 85.60): VNC

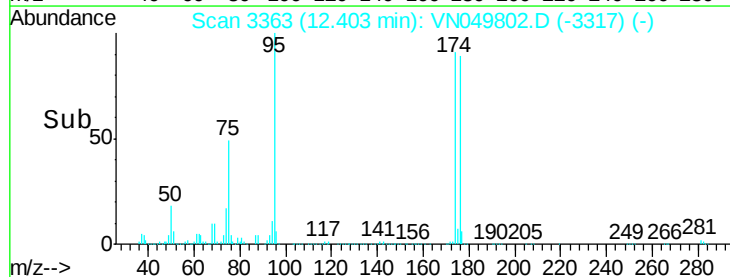
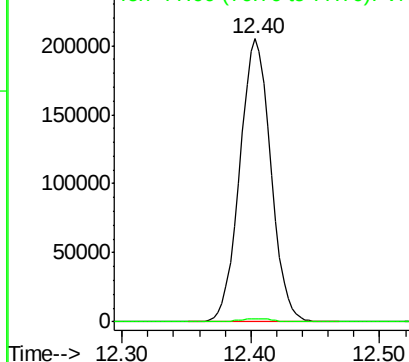


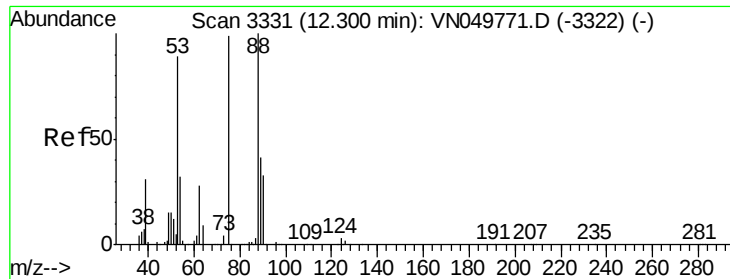
#76
 1,2,3-Trichloropropane
 Concen: 33.31 ug/l
 RT: 12.40 min Scan# 3363
 Delta R.T. -0.15 min
 Lab File: VN049802.D
 Acq: 13 Jul 2018 17:27

Tgt Ion: 75 Resp: 342900
 Ion Ratio Lower Upper
 75 100
 77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNC
 Ion 77.00 (76.70 to 77.70): VNC

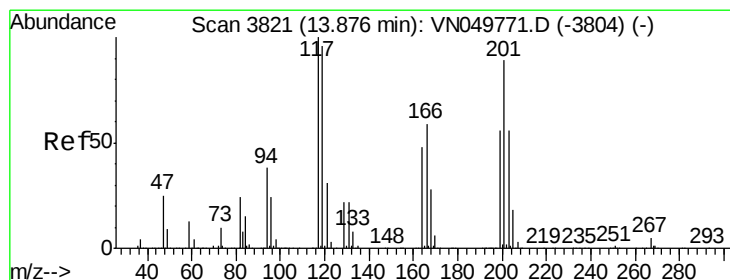
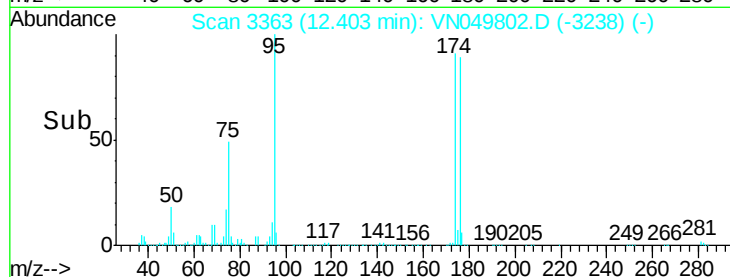
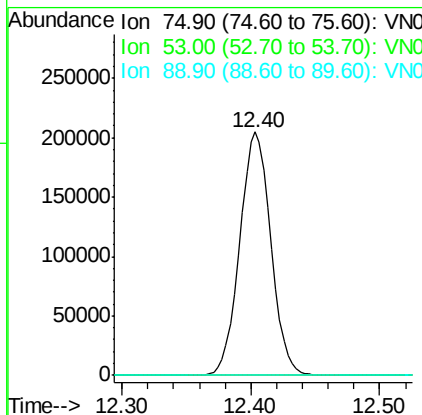
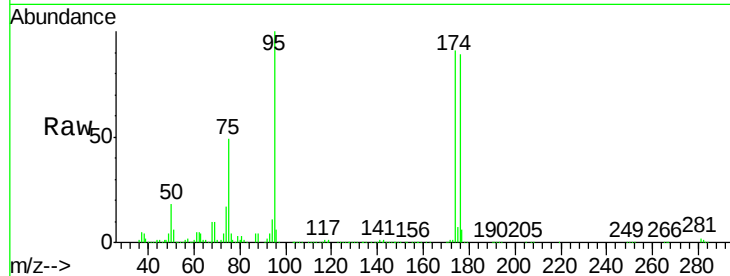




#81
trans-1,4-Dichloro-2-butene
Concen: 107.57 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.10 min
Lab File: VN049802.D
Acq: 13 Jul 2018 17:27

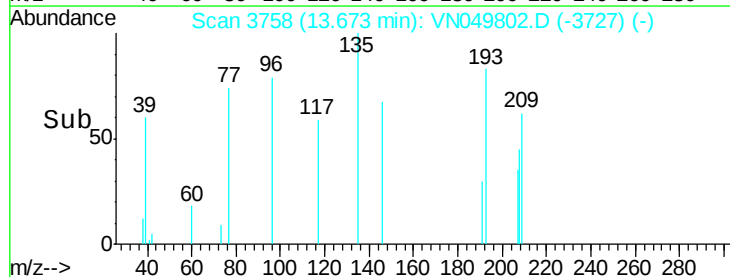
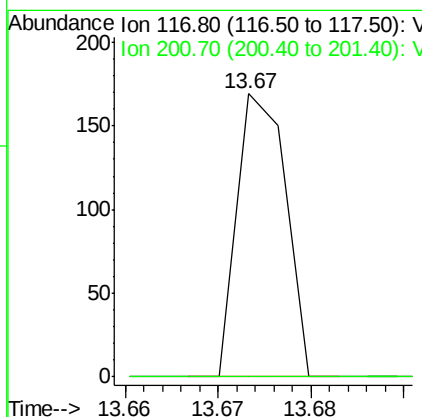
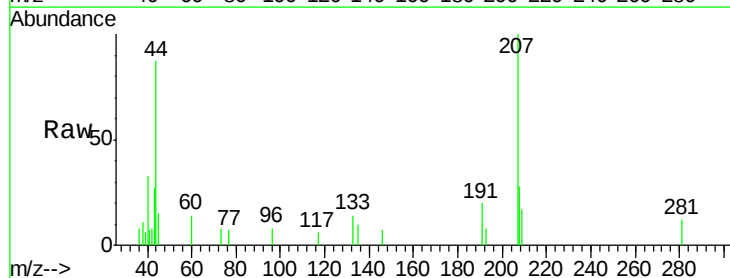
Instrument :
MSVOA_N
ClientSampleId :
PB111069ZHE#05

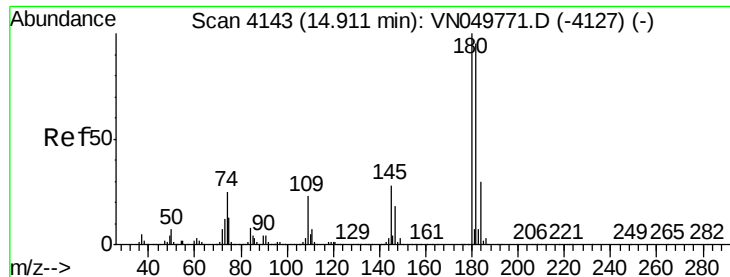
Tot Ion: 75 Resp: 342900
Ion Ratio Lower Upper
75 100
53 0.2 73.9 110.9#
89 0.0 35.9 53.9#



#90
Hexachloroethane
Concen: Below Cal
RT: 13.67 min Scan# 3758
Delta R.T. -0.20 min
Lab File: VN049802.D
Acq: 13 Jul 2018 17:27

Tgt Ion: 117 Resp: 62
Ion Ratio Lower Upper
117 100
201 0.0 45.3 135.8#

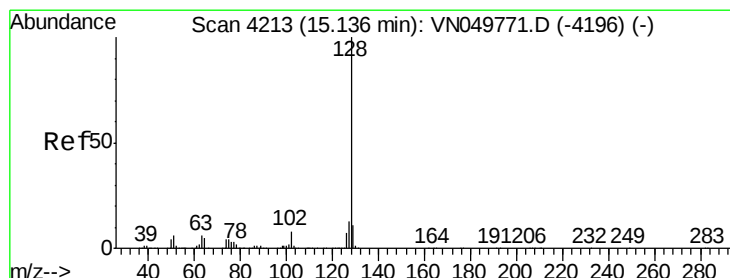
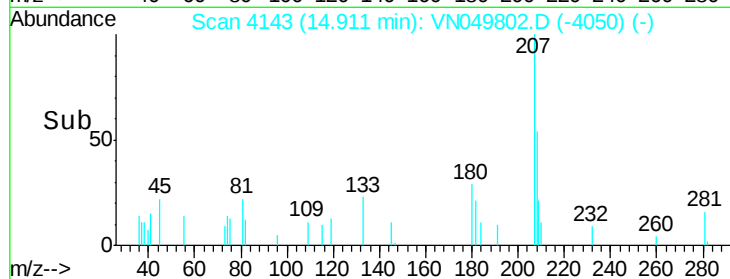
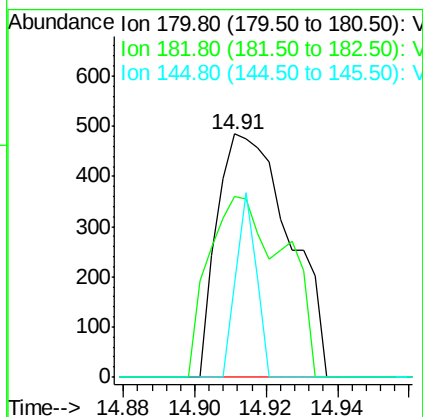
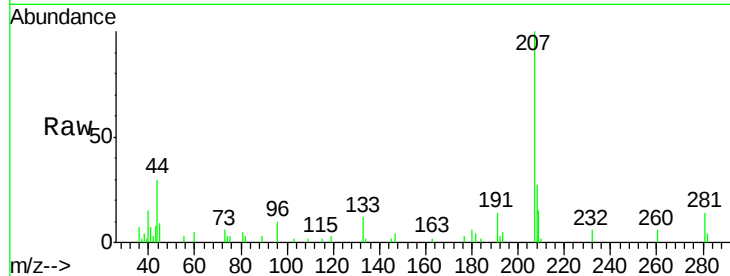




#93
 1,2,4-Trichlorobenzene
 Concen: 2.94 ug/l
 RT: 14.91 min Scan# 4143
 Delta R.T. 0.00 min
 Lab File: VN049802.D
 Acq: 13 Jul 2018 17:27

Instrument :
 MSVOA_N
 ClientSampleId :
 PB111069ZHE#05

Tot Ion:180 Resp: 676
 Ion Ratio Lower Upper
 180 100
 182 78.1 47.3 141.9
 145 21.4 14.4 43.0



#95
 Naphthalene
 Concen: 4.09 ug/l
 RT: 15.15 min Scan# 4216
 Delta R.T. 0.01 min
 Lab File: VN049802.D
 Acq: 13 Jul 2018 17:27

Tgt Ion:128 Resp: 1838
 Ion Ratio Lower Upper
 128 100
 127 5.7 10.4 15.6#
 129 3.5 8.6 13.0#

