

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101218\
 Data File : VN051852.D
 Acq On : 13 Oct 2018 00:02
 Operator : MD\SY
 Sample : PB113779ZHE#05
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 33 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 PB113779ZHE#05

Quant Time: Oct 13 02:10:04 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N101118W.M
 Quant Title : SW846 8260
 QLast Update : Fri Oct 12 09:51:20 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	813458	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1175185	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1038809	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	355047	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	442387	56.90	ug/l	0.00
Spiked Amount			Recovery	=	113.80%	
35) Dibromofluoromethane	7.59	113	440510	60.28	ug/l	0.00
Spiked Amount			Recovery	=	120.56%	
50) Toluene-d8	10.09	98	1628100	59.79	ug/l	0.00
Spiked Amount			Recovery	=	119.58%	
62) 4-Bromofluorobenzene	12.40	95	457795	48.70	ug/l	0.00
Spiked Amount			Recovery	=	97.40%	

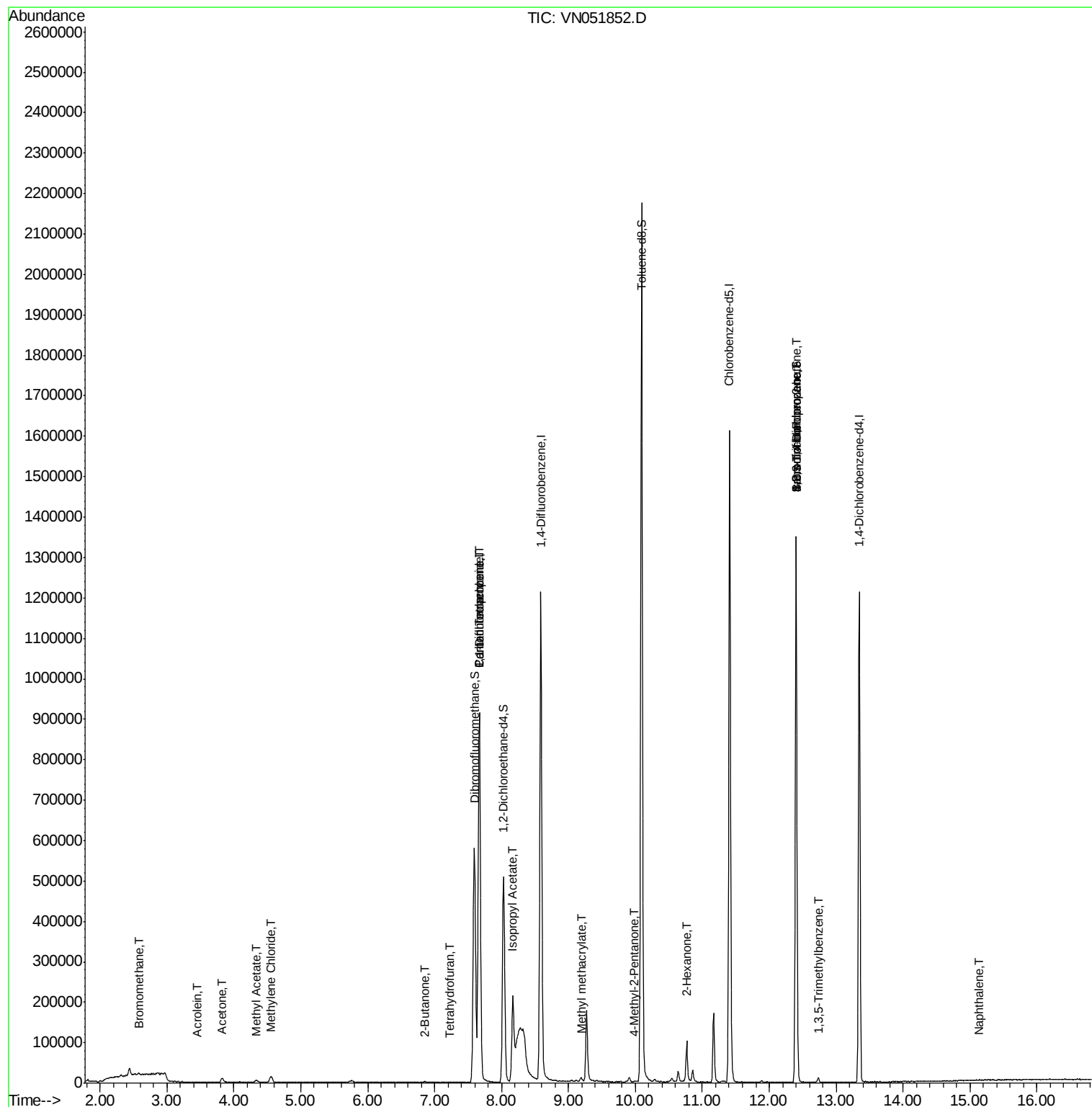
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.57	94	2054	0.278	ug/l #	53
13) Acrolein	3.45	56	64	16.043	ug/l #	14
16) Acetone	3.82	43	18374	10.958	ug/l	98
18) Methyl Acetate	4.34	43	9128	1.011	ug/l	94
20) Methylene Chloride	4.55	84	11813	1.702	ug/l #	84
25) 2-Butanone	6.85	43	2554	1.078	ug/l #	64
29) Tetrahydrofuran	7.21	42	624	0.442	ug/l	91
31) Cyclohexane	7.66	56	14414	Below Cal	#	1
36) 1,1-Dichloropropene	7.67	75	49912	5.246	ug/l #	50
38) Carbon Tetrachloride	7.67	117	75219	6.821	ug/l #	15
43) Isopropyl Acetate	8.17	43	266779	27.120	ug/l	94
48) Methyl methacrylate	9.18	41	5201	1.195	ug/l #	25
51) 4-Methyl-2-Pentanone	9.98	43	1594	0.314	ug/l #	35
59) 2-Hexanone	10.77	43	13530	3.799	ug/l #	58
71) Bromoform	12.40	173	3857	4.147	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	231545	52.883	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	4564	0.205	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.40	75	231545	150.178	ug/l #	15
95) Naphthalene	15.14	128	426	4.426	ug/l #	69

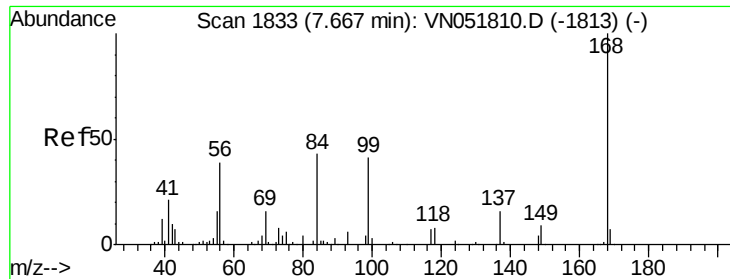
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Oct 12 09:51:20 2018
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN051852.D

Acq: 13 Oct 2018 00:02

Instrument :

MSVOA_N

ClientSampleId :

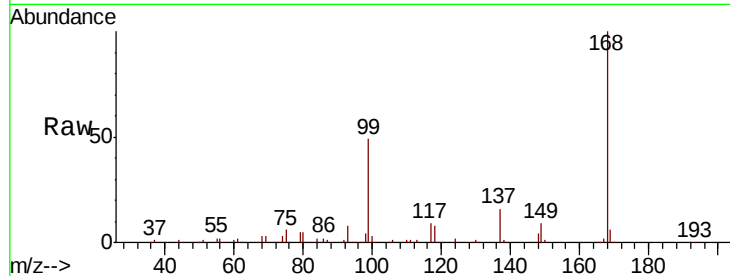
PB113779ZHE#05

Tot Ion:168 Resp: 813458

Ion Ratio Lower Upper

168 100

99 49.3 39.6 59.4



Abundance Ion 167.90 (167.60 to 168.60): VN051810.D (-1813) (-)

Ion 98.90 (98.60 to 99.60): VN051810.D (-1813) (-)

7.67

400000

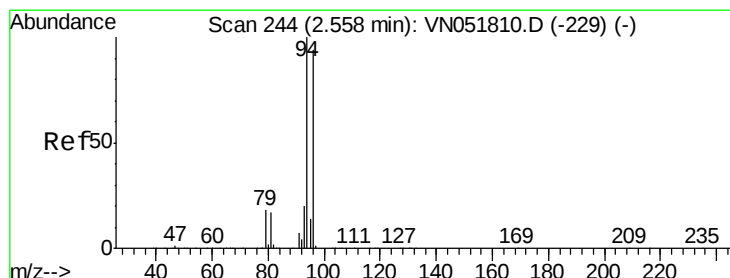
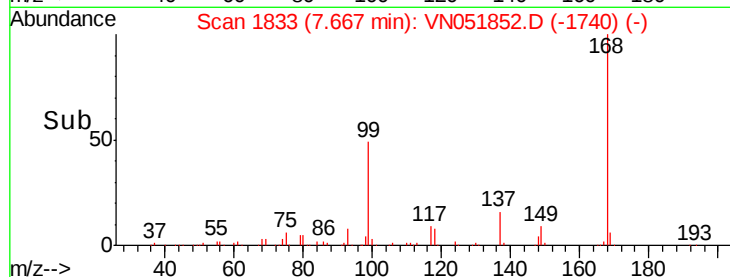
300000

200000

100000

0

Time-->



#5

Bromomethane

Concen: 0.278 ug/l

RT: 2.57 min Scan# 248

Delta R.T. 0.01 min

Lab File: VN051852.D

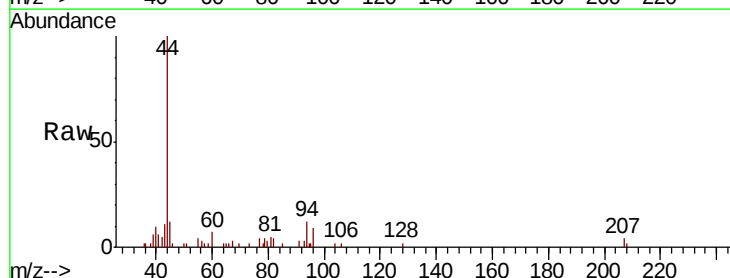
Acq: 13 Oct 2018 00:02

Tgt Ion: 94 Resp: 2054

Ion Ratio Lower Upper

94 100

96 49.9 76.2 114.2#



Abundance Ion 93.90 (93.60 to 94.60): VN051810.D (-229) (-)

Ion 95.90 (95.60 to 96.60): VN051810.D (-229) (-)

2.57

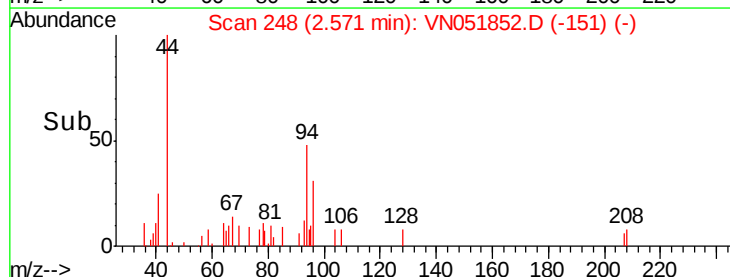
1500

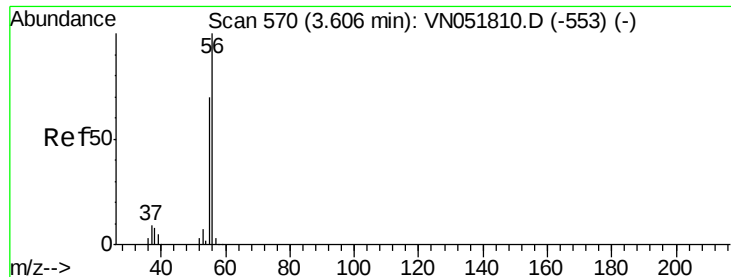
1000

500

0

Time-->





#13

Acrolein

Concen: 16.043 ug/l

RT: 3.45 min Scan# 521

Delta R.T. -0.16 min

Lab File: VN051852.D

Acq: 13 Oct 2018 00:02

Instrument :

MSVOA_N

ClientSampleId :

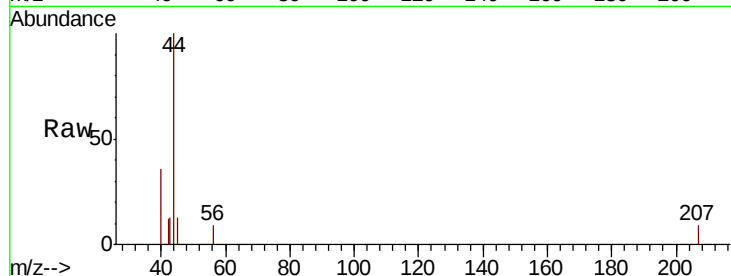
PB113779ZHE#05

Tot Ion: 56 Resp: 64

Ion Ratio Lower Upper

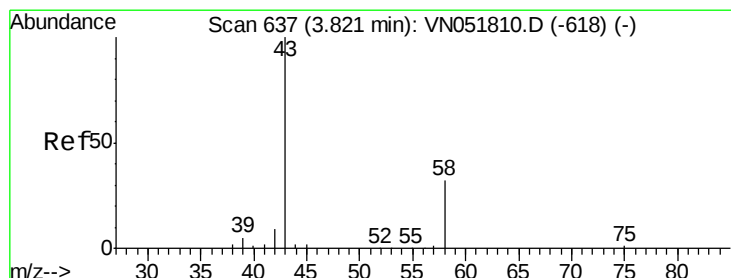
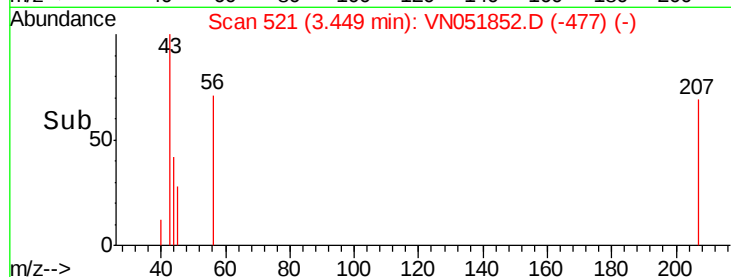
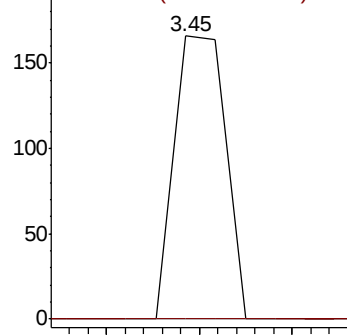
56 100

55 0.0 57.7 86.5#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#16

Acetone

Concen: 10.958 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN051852.D

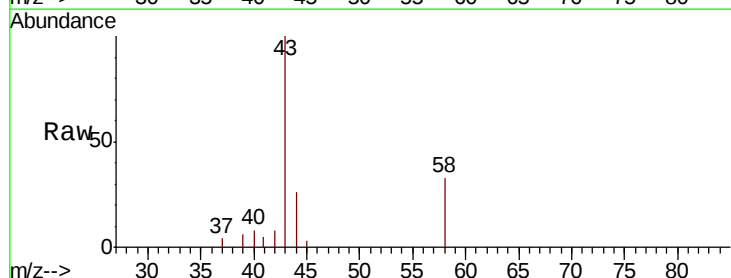
Acq: 13 Oct 2018 00:02

Tgt Ion: 43 Resp: 18374

Ion Ratio Lower Upper

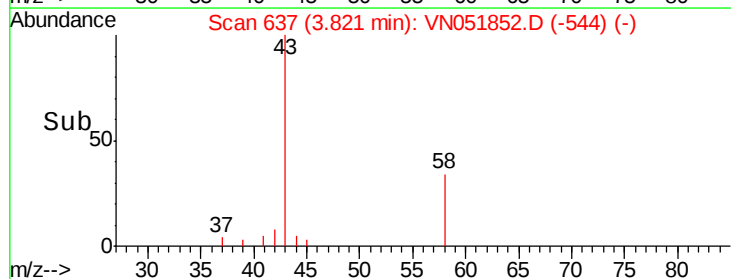
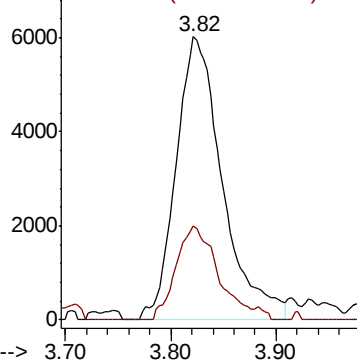
43 100

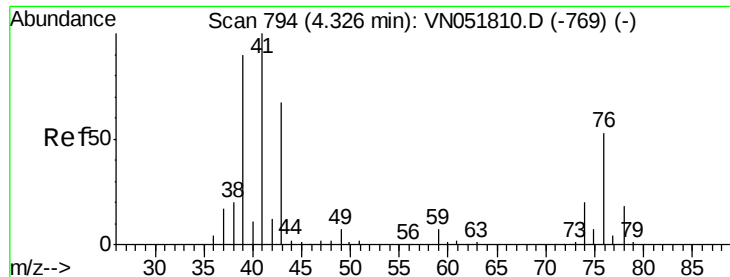
58 33.0 27.2 40.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

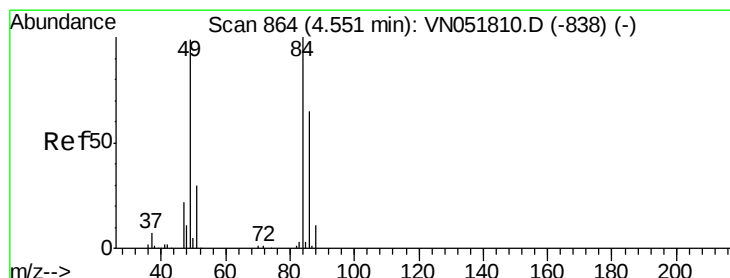
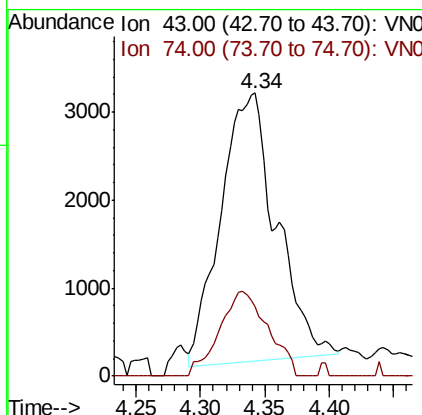
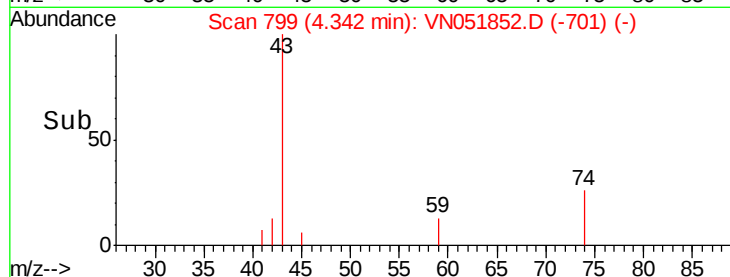
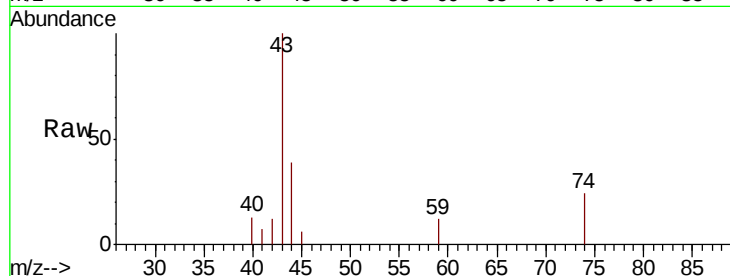




#18
Methyl Acetate
Concen: 1.011 ug/l
RT: 4.34 min Scan# 799
Delta R.T. 0.02 min
Lab File: VN051852.D
Acq: 13 Oct 2018 00:02

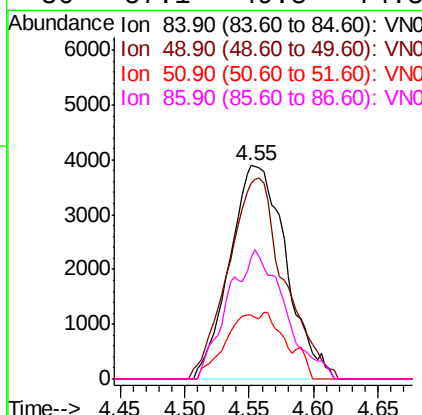
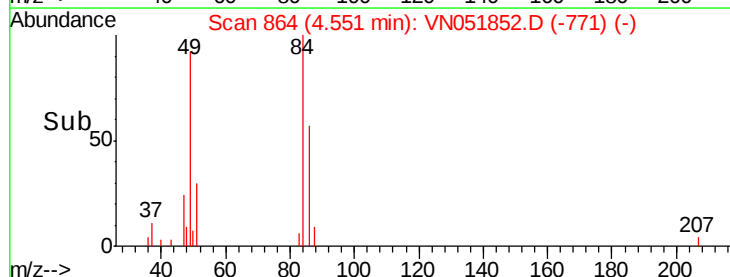
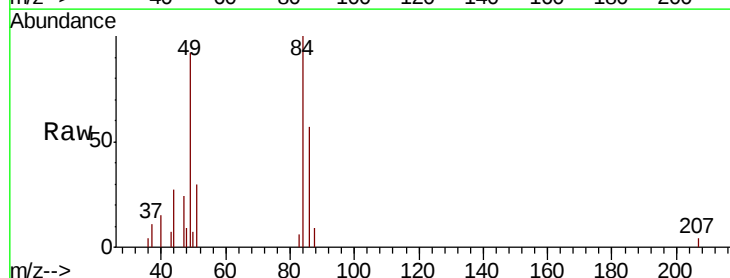
Instrument :
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PB113779ZHE#05

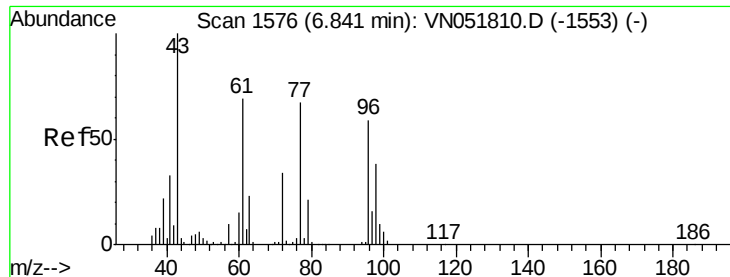
Tot Ion: 43 Resp: 9128
Ion Ratio Lower Upper
43 100
74 27.7 19.8 29.8



#20
Methylene Chloride
Concen: 1.702 ug/l
RT: 4.55 min Scan# 864
Delta R.T. 0.00 min
Lab File: VN051852.D
Acq: 13 Oct 2018 00:02

Tgt Ion: 84 Resp: 11813
Ion Ratio Lower Upper
84 100
49 91.9 93.2 139.8#
51 30.0 29.0 43.6
86 57.1 49.8 74.8

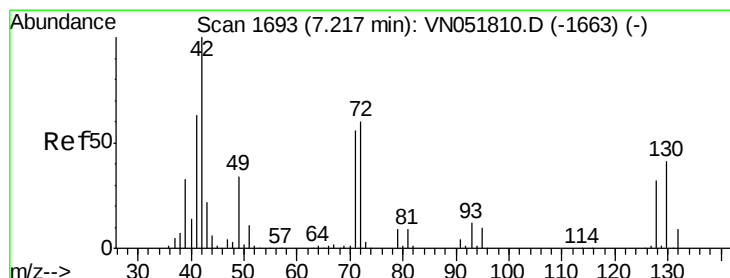
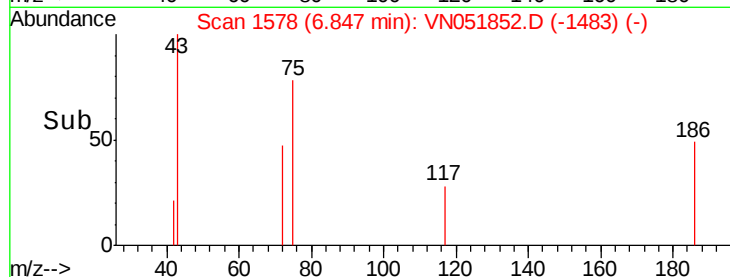
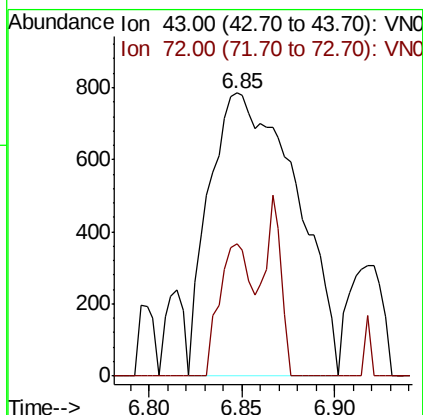
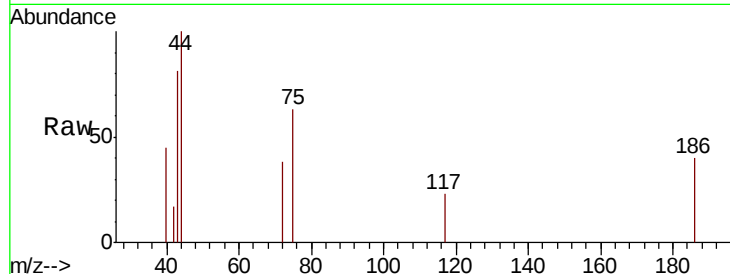




#25
2-Butanone
Concen: 1.078 ug/l
RT: 6.85 min Scan# 1578
Delta R.T. 0.01 min
Lab File: VN051852.D
Acq: 13 Oct 2018 00:02

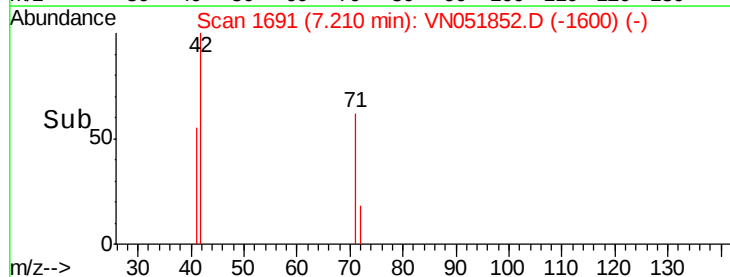
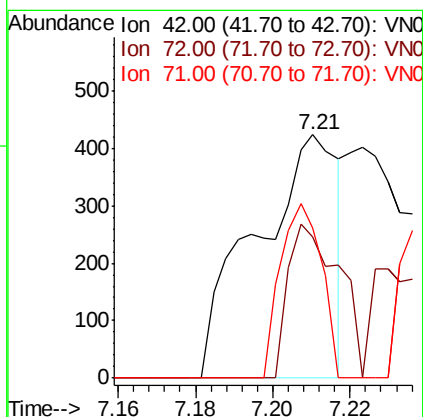
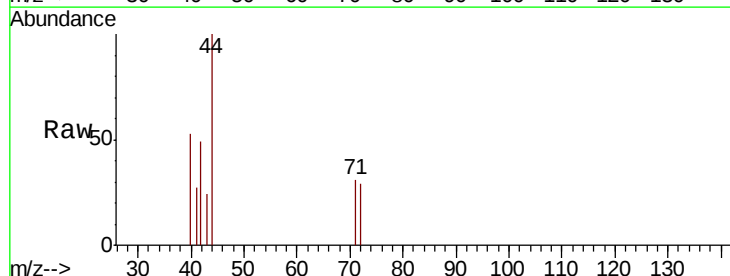
Instrument :
MSVOA_N
ClientSampleId :
PB113779ZHE#05

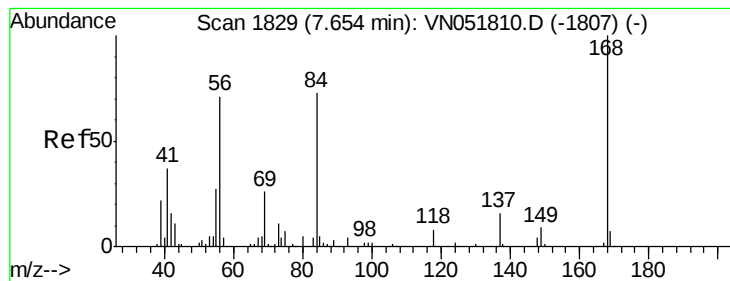
Tot Ion: 43 Resp: 2554
Ion Ratio Lower Upper
43 100
72 46.6 22.3 33.5#



#29
Tetrahydrofuran
Concen: 0.442 ug/l
RT: 7.21 min Scan# 1691
Delta R.T. -0.01 min
Lab File: VN051852.D
Acq: 13 Oct 2018 00:02

Tgt Ion: 42 Resp: 624
Ion Ratio Lower Upper
42 100
72 39.3 35.5 53.3
71 35.9 33.7 50.5





#31

Cyclohexane

Concen: Below Cal

RT: 7.66 min Scan# 1832

Delta R.T. 0.01 min

Lab File: VN051852.D

Acq: 13 Oct 2018 00:02

Instrument :

MSVOA_N

ClientSampleId :

PB113779ZHE#05

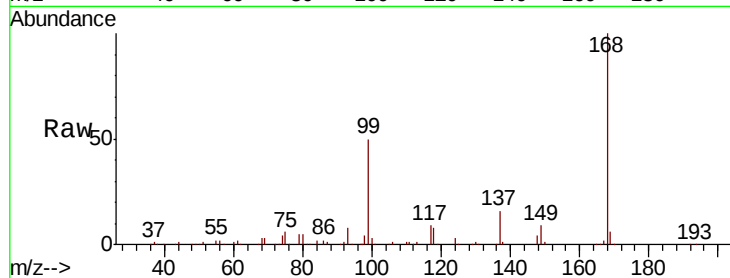
Tot Ion: 56 Resp: 14414

Ion Ratio Lower Upper

56 100

69 157.8 26.2 39.4#

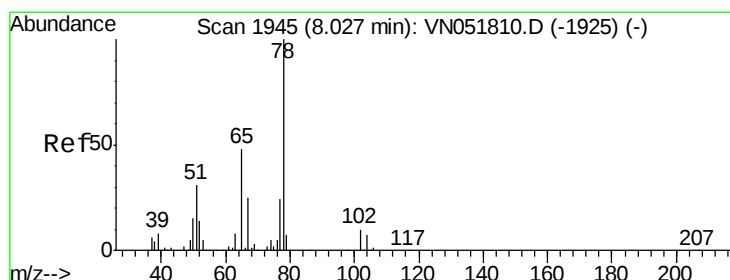
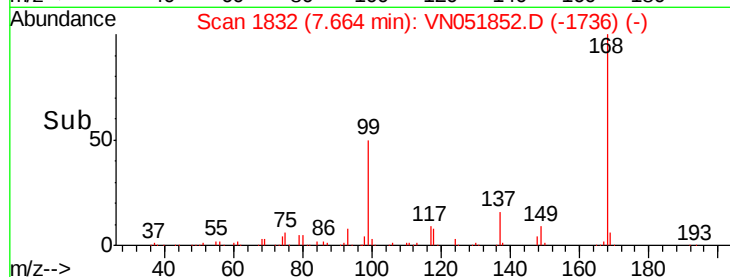
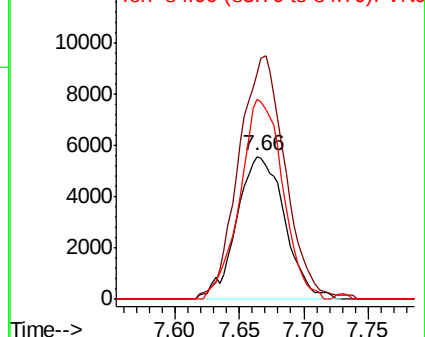
84 140.2 68.3 102.5#



Abundance Ion 56.00 (55.70 to 56.70): VN051810.D (-1807) (-)

Ion 69.00 (68.70 to 69.70): VN051810.D (-1807) (-)

Ion 84.00 (83.70 to 84.70): VN051810.D (-1807) (-)



#33

1,2-Dichloroethane-d4

Concen: Below ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN051852.D

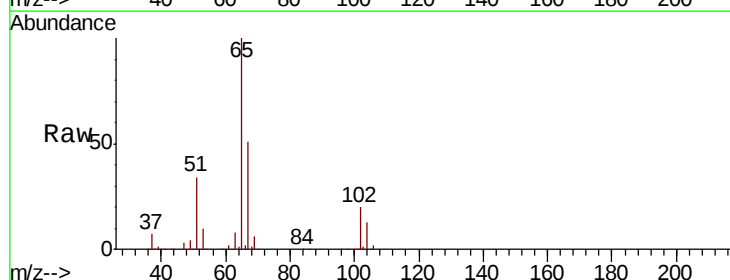
Acq: 13 Oct 2018 00:02

Tgt Ion: 65 Resp: 442387

Ion Ratio Lower Upper

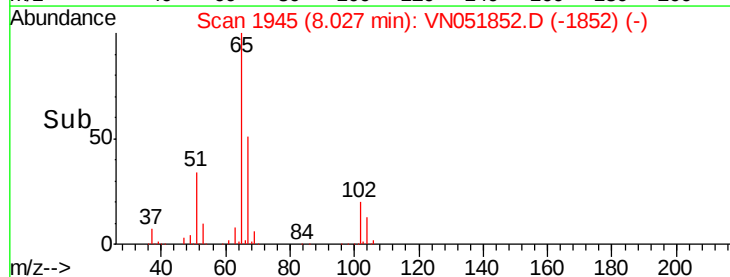
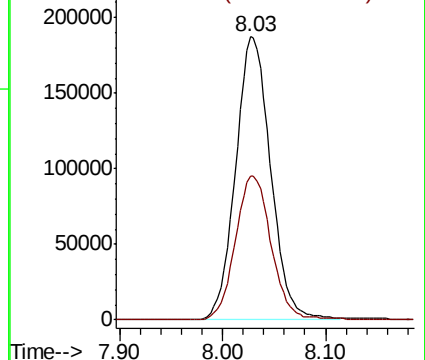
65 100

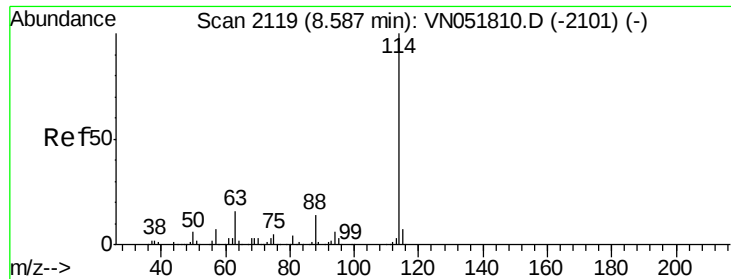
67 51.9 0.0 110.4



Abundance Ion 64.90 (64.60 to 65.60): VN051810.D (-1925) (-)

Ion 66.90 (66.60 to 67.60): VN051810.D (-1925) (-)

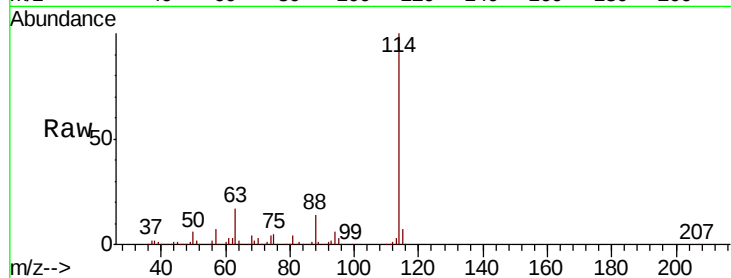




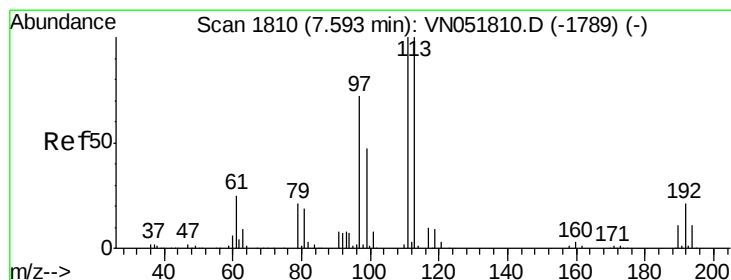
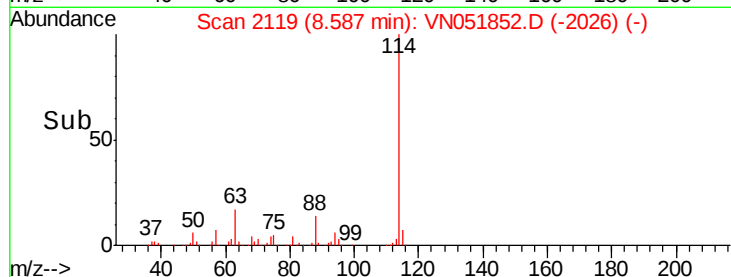
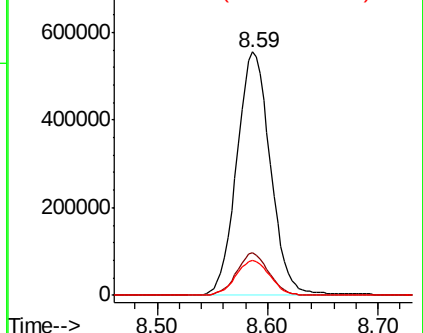
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN051852.D
 Acq: 13 Oct 2018 00:02

Instrument :
 MSVOA_N
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 PB113779ZHE#05

Tot Ion:114 Resp: 1175185
 Ion Ratio Lower Upper
 114 100
 63 17.4 0.0 38.6
 88 14.2 0.0 30.6

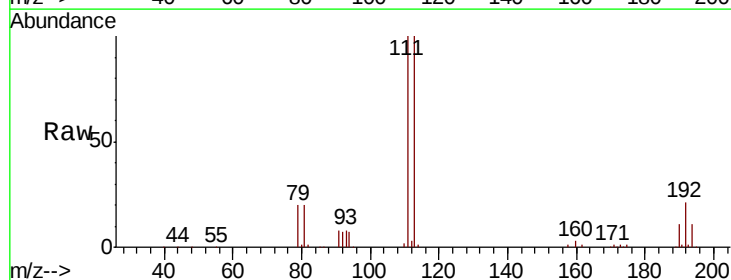


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

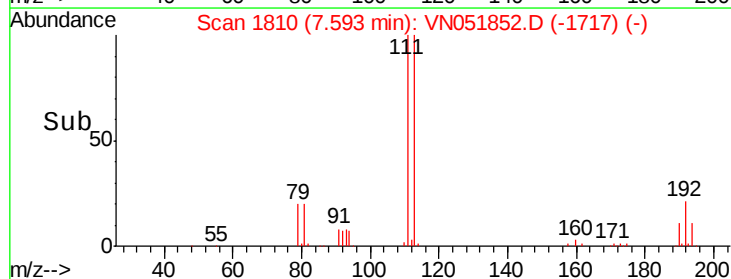
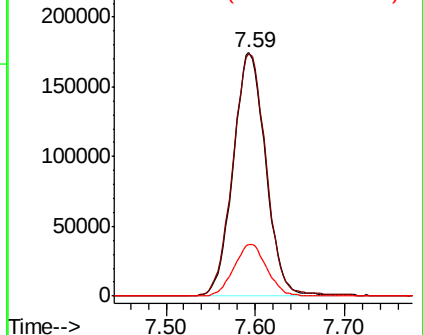


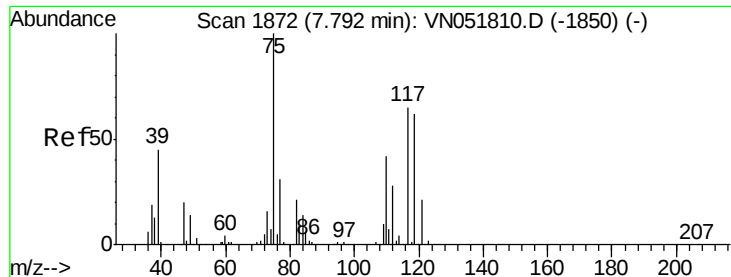
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN051852.D
 Acq: 13 Oct 2018 00:02

Tgt Ion:113 Resp: 440510
 Ion Ratio Lower Upper
 113 100
 111 102.1 82.6 123.8
 192 21.5 18.0 27.0



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

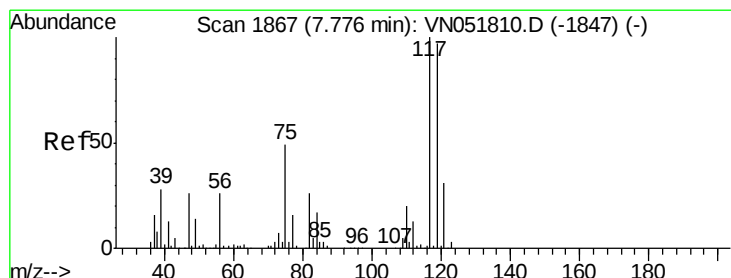
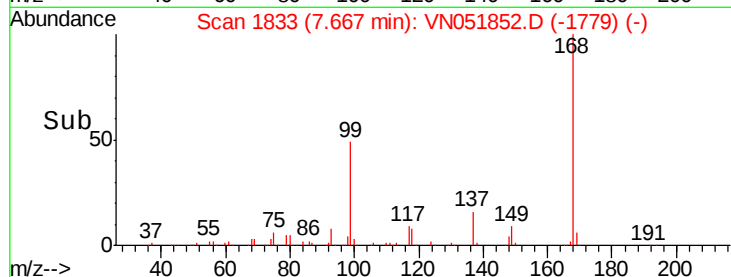
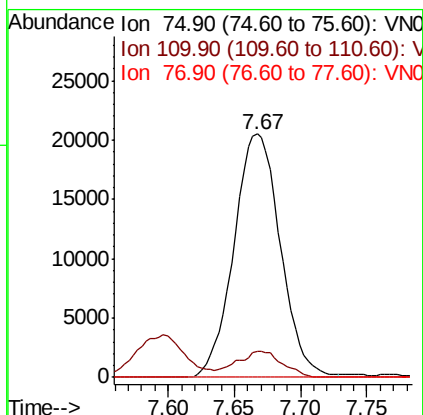
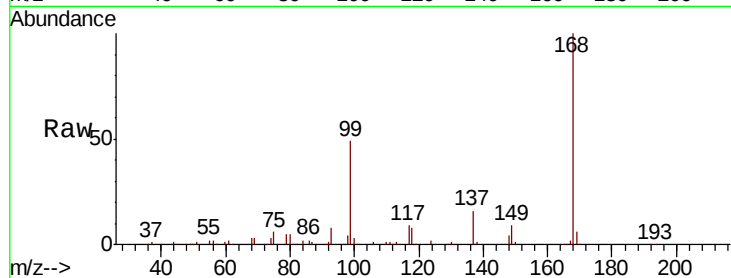




#36
 1,1-Dichloropropene
 Concen: 5.246 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN051852.D
 Acq: 13 Oct 2018 00:02

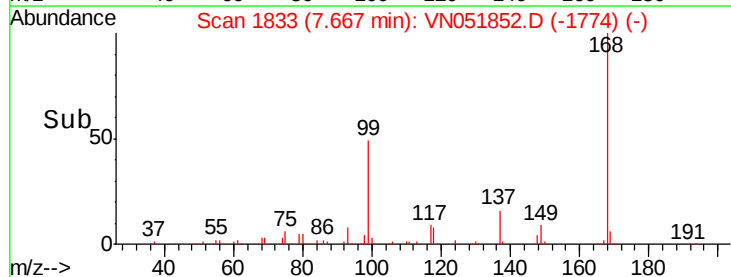
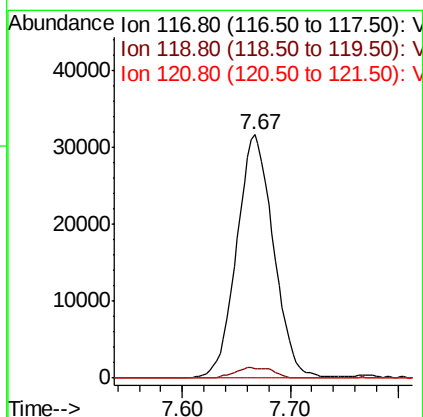
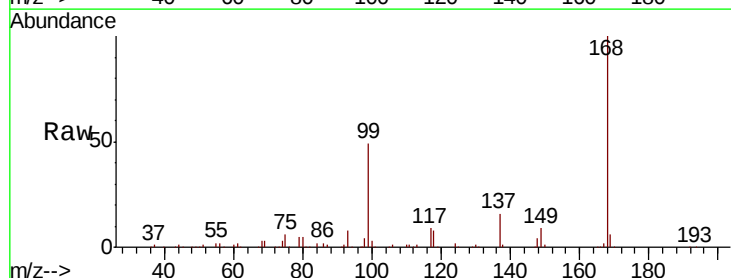
Instrument :
 MSVOA_N
 ClientSampleId :
 PB113779ZHE#05

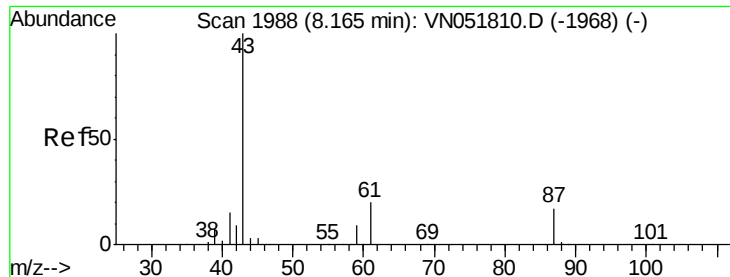
Tot Ion	Ratio	Lower	Upper
75	100		
110	10.3	18.1	54.4#
77	0.0	24.8	37.2#



#38
 Carbon Tetrachloride
 Concen: 6.821 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.11 min
 Lab File: VN051852.D
 Acq: 13 Oct 2018 00:02

Tgt Ion	Ratio	Lower	Upper
117	100		
119	3.9	76.3	114.5#
121	0.0	24.6	36.8#





#43

Isopropyl Acetate

Concen: 27.120 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.00 min

Lab File: VN051852.D

Acq: 13 Oct 2018 00:02

Instrument :

MSVOA_N

ClientSampleId :

PB113779ZHE#05

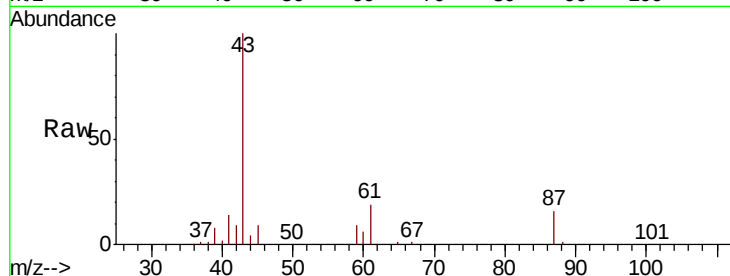
Tot Ion: 43 Resp: 266779

Ion Ratio Lower Upper

43 100

61 17.6 17.5 26.3

87 14.3 11.3 16.9



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0

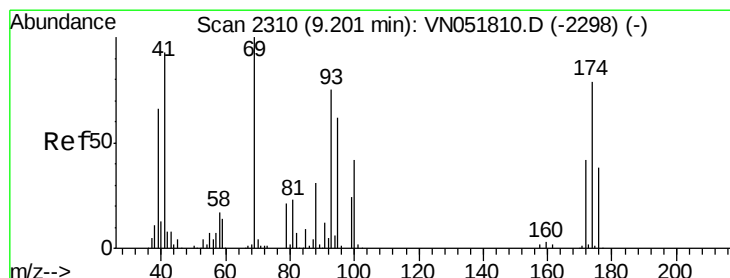
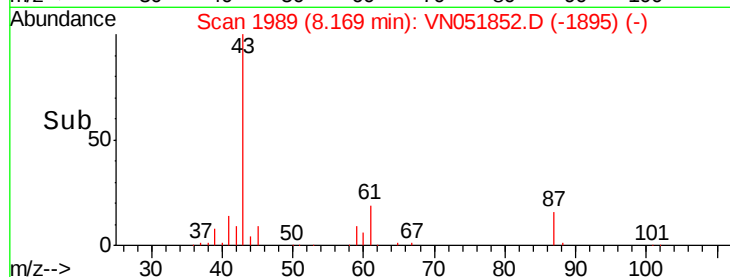
8.17

100000

50000

0

Time--> 8.05 8.10 8.15 8.20 8.25



#48

Methyl methacrylate

Concen: 1.195 ug/l

RT: 9.18 min Scan# 2305

Delta R.T. -0.02 min

Lab File: VN051852.D

Acq: 13 Oct 2018 00:02

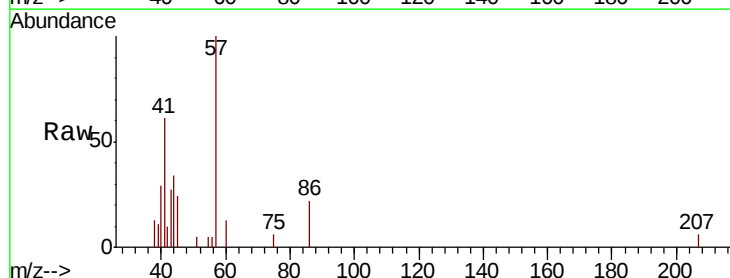
Tgt Ion: 41 Resp: 5201

Ion Ratio Lower Upper

41 100

69 0.0 74.7 112.1#

39 27.2 42.2 63.2#



Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

10000

8000

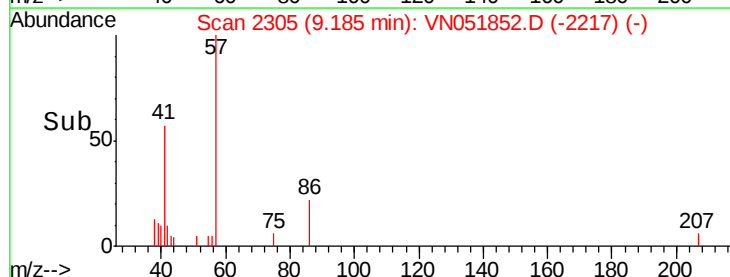
6000

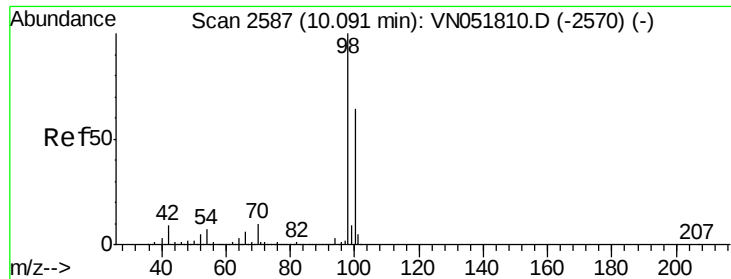
4000

2000

0

Time--> 9.10 9.15 9.20 9.25





#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN051852.D

Acq: 13 Oct 2018 00:02

Instrument :

MSVOA_N

ClientSampleId :

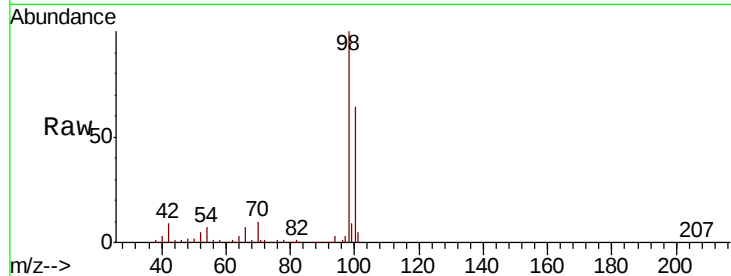
PB113779ZHE#05

Tot Ion: 98 Resp: 1628100

Ion Ratio Lower Upper

98 100

100 63.7 51.5 77.3



Abundance Ion 98.00 (97.70 to 98.70): VN051810.D (-2570) (-)

Ion 100.00 (99.70 to 100.70): VN051810.D (-2570) (-)

10.09

800000

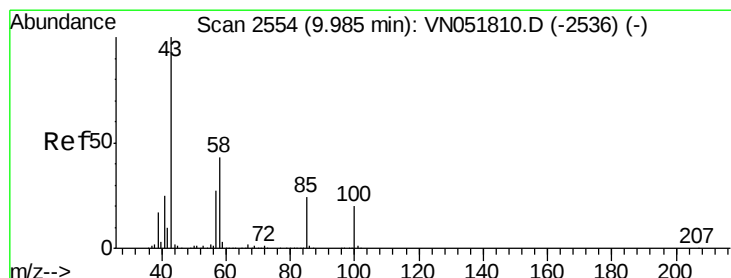
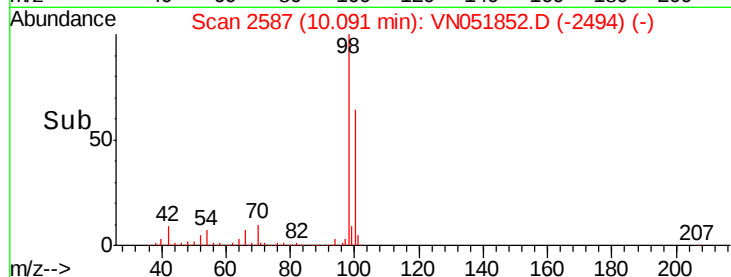
600000

400000

200000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.314 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. -0.00 min

Lab File: VN051852.D

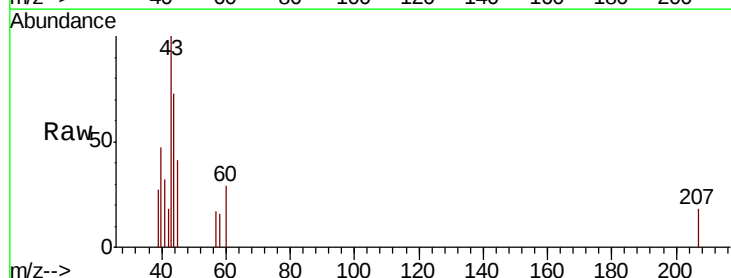
Acq: 13 Oct 2018 00:02

Tgt Ion: 43 Resp: 1594

Ion Ratio Lower Upper

43 100

58 0.0 32.4 48.6#



Abundance Ion 43.00 (42.70 to 43.70): VN051810.D (-2536) (-)

Ion 58.00 (57.70 to 58.70): VN051810.D (-2536) (-)

9.98

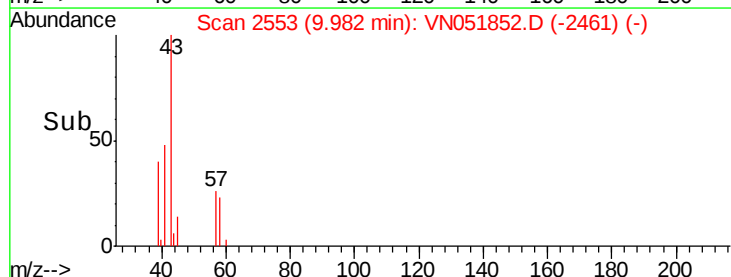
1500

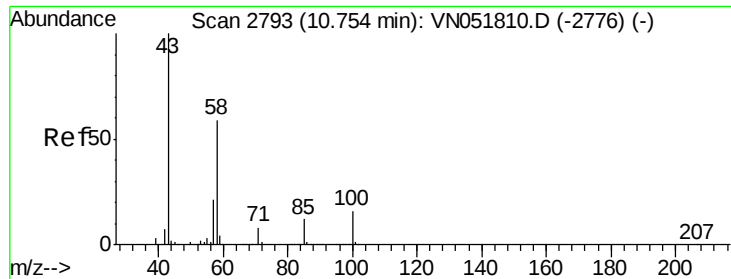
1000

500

0

Time-->

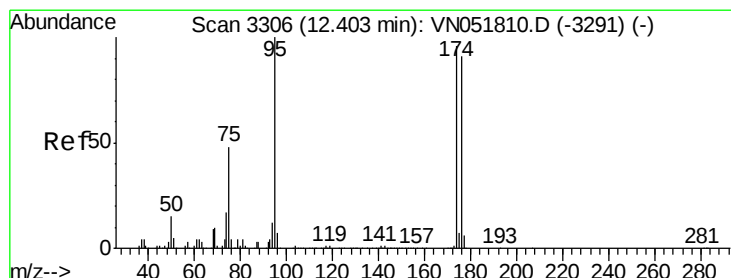
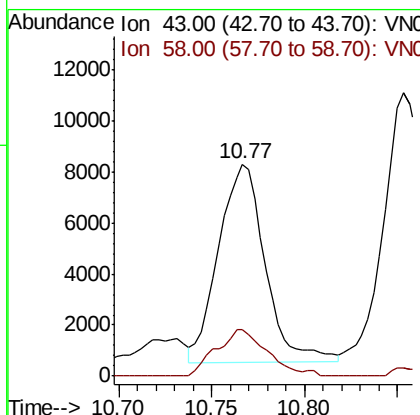
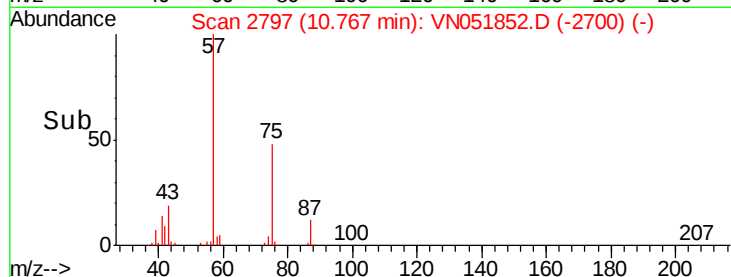
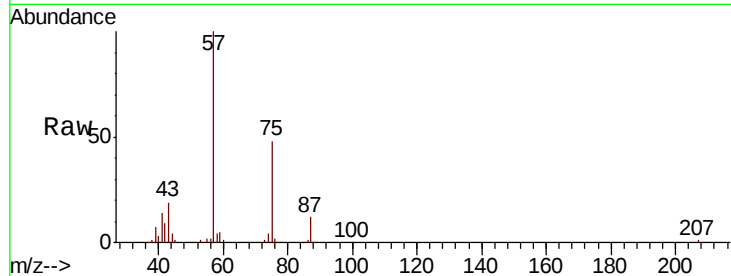




#59
2-Hexanone
Concen: 3.799 ug/l
RT: 10.77 min Scan# 2797
Delta R.T. 0.01 min
Lab File: VN051852.D
Acq: 13 Oct 2018 00:02

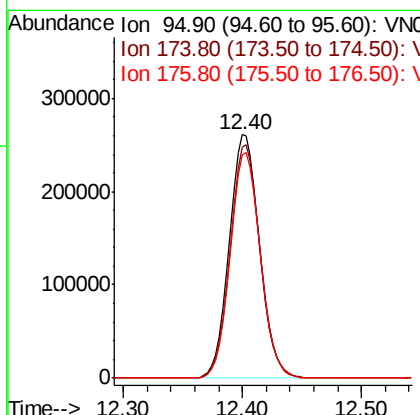
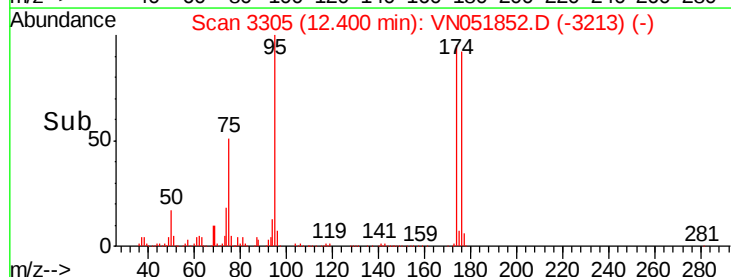
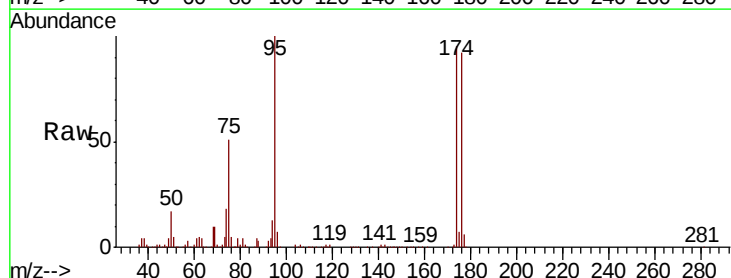
Instrument :
MSVOA_N
ClientSampleId :
PB113779ZHE#05

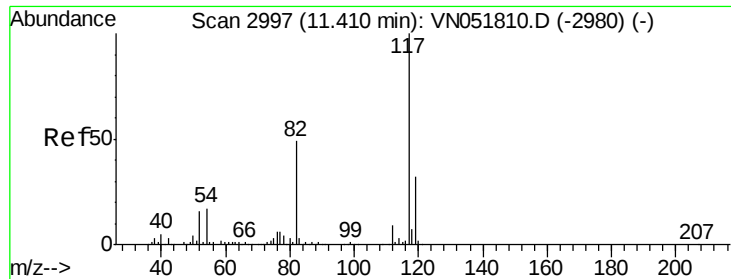
Tot Ion: 43 Resp: 13530
Ion Ratio Lower Upper
43 100
58 26.0 28.3 85.0#



#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN051852.D
Acq: 13 Oct 2018 00:02

Tgt Ion: 95 Resp: 457795
Ion Ratio Lower Upper
95 100
174 95.1 0.0 183.0
176 92.4 0.0 178.8

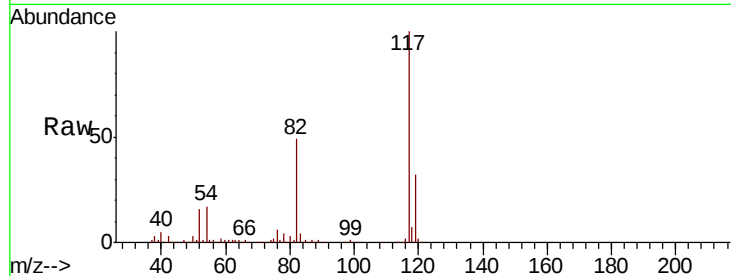




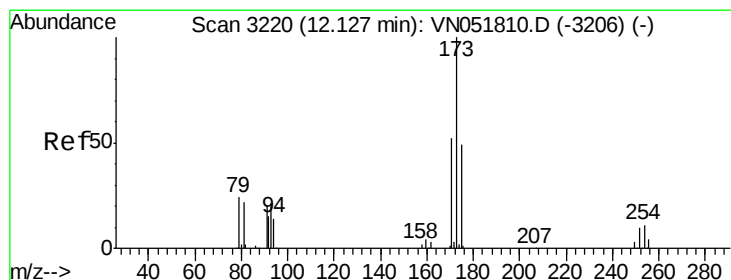
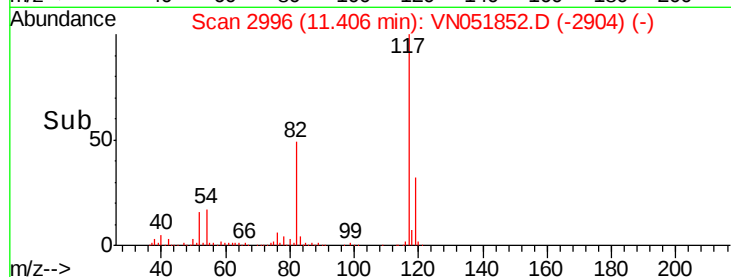
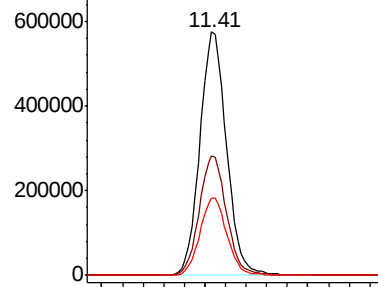
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN051852.D
Acq: 13 Oct 2018 00:02

Instrument :
MSVOA_N
ClientSampleId :
PB113779ZHE#05

Tot Ion:117 Resp: 1038809
Ion Ratio Lower Upper
117 100
82 49.1 42.6 64.0
119 31.8 25.8 38.6

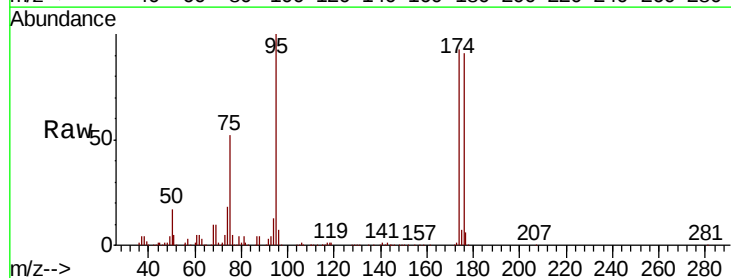


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

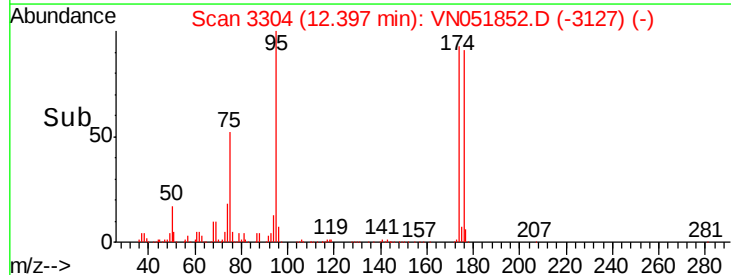
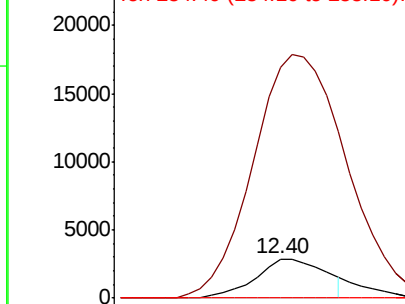


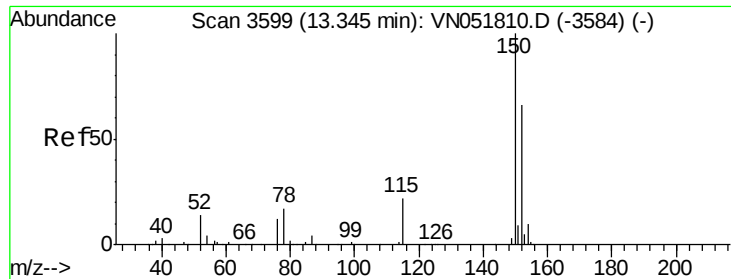
#71
Bromoform
Concen: 4.147 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.27 min
Lab File: VN051852.D
Acq: 13 Oct 2018 00:02

Tgt Ion:173 Resp: 3857
Ion Ratio Lower Upper
173 100
175 704.1 24.4 73.4#
254 0.0 0.1 0.1#



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: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN051852.D

Acq: 13 Oct 2018 00:02

Instrument :

MSVOA_N

ClientSampleId :

PB113779ZHE#05

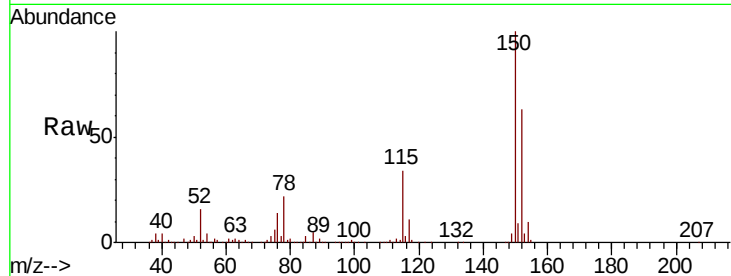
Tot Ion:152 Resp: 355047

Ion Ratio Lower Upper

152 100

115 54.8 27.8 83.4

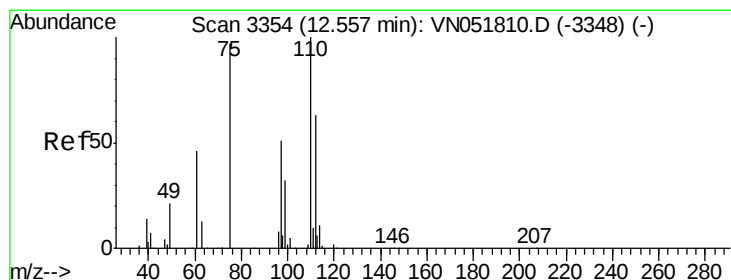
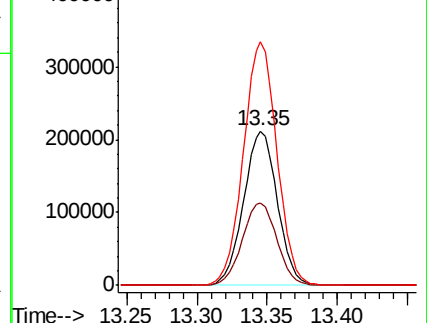
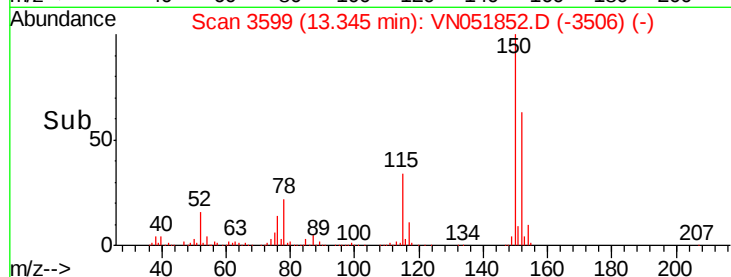
150 156.7 0.0 351.4



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: 52.883 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.16 min

Lab File: VN051852.D

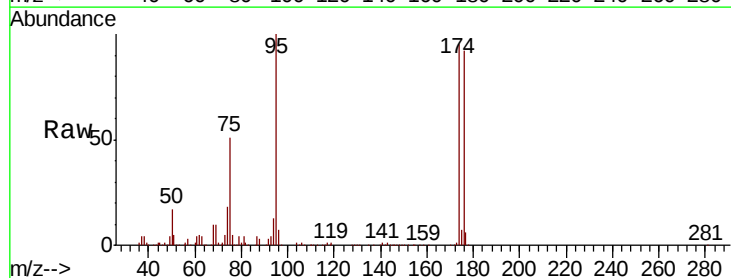
Acq: 13 Oct 2018 00:02

Tgt Ion: 75 Resp: 231545

Ion Ratio Lower Upper

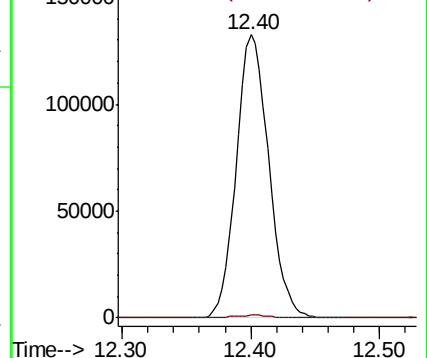
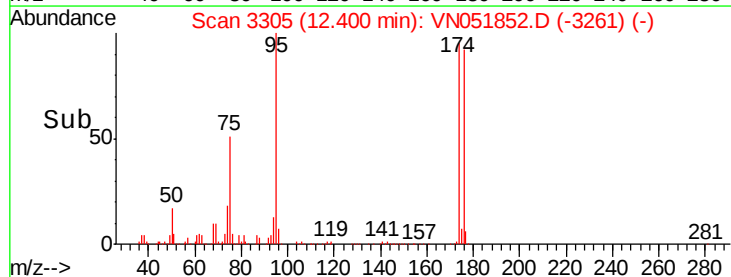
75 100

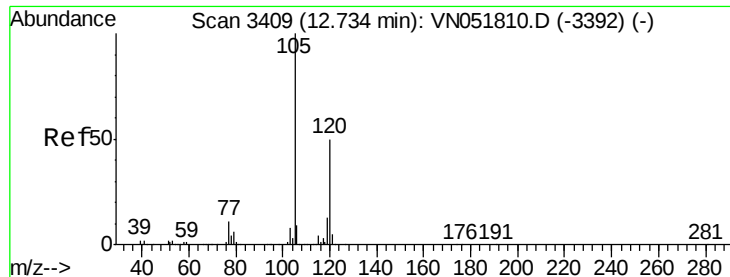
77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V

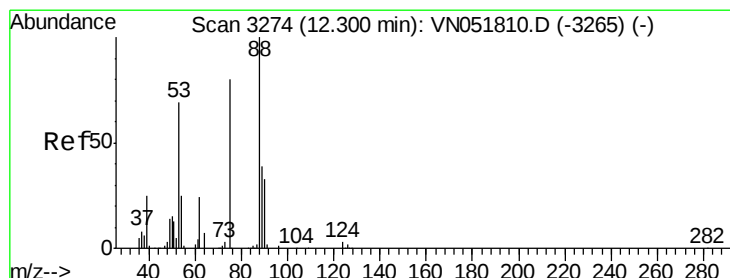
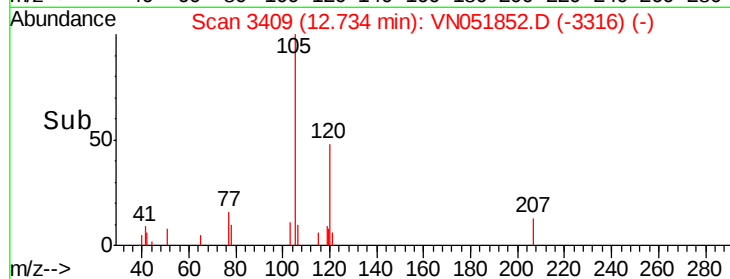
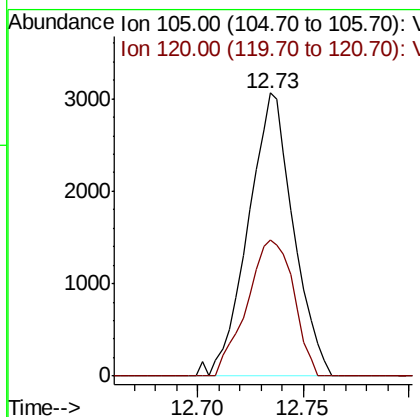
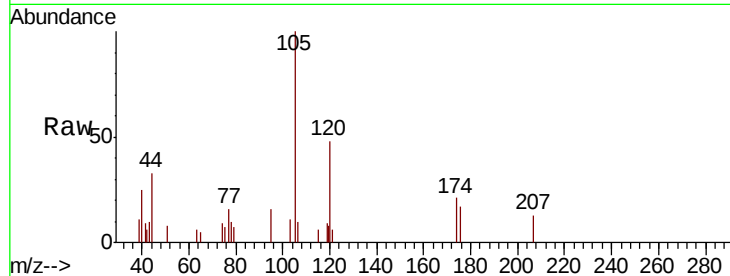




#80
 1,3,5-Trimethylbenzene
 Concen: 0.205 ug/l
 RT: 12.73 min Scan# 3409
 Delta R.T. 0.00 min
 Lab File: VN051852.D
 Acq: 13 Oct 2018 00:02

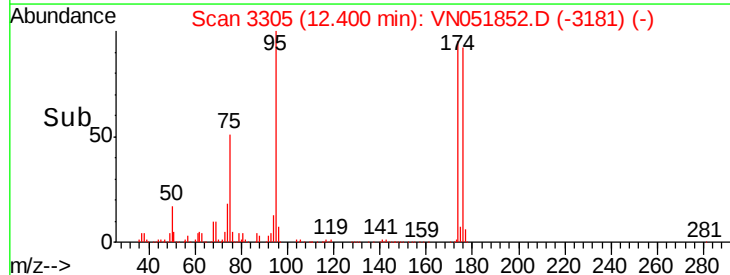
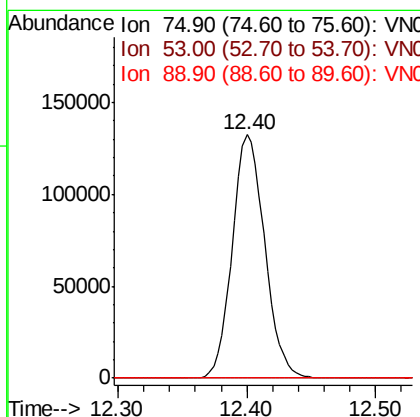
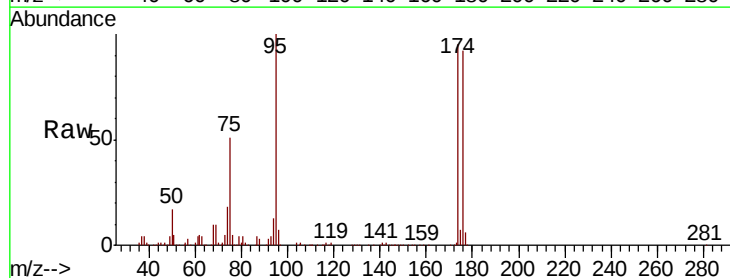
Instrument :
 MSVOA_N
 ClientSampleId :
 PB113779ZHE#05

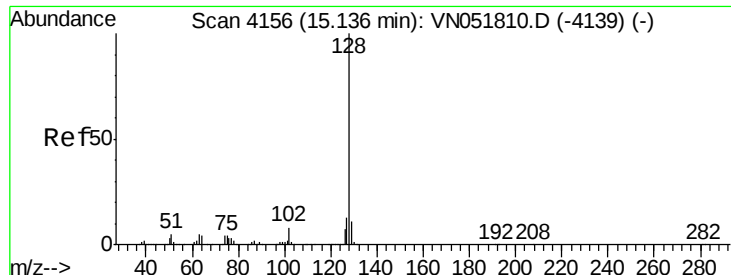
Tot Ion:105 Resp: 4564
 Ion Ratio Lower Upper
 105 100
 120 49.4 24.6 74.0



#81
 trans-1,4-Dichloro-2-butene
 Concen: 150.178 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.10 min
 Lab File: VN051852.D
 Acq: 13 Oct 2018 00:02

Tgt Ion: 75 Resp: 231545
 Ion Ratio Lower Upper
 75 100
 53 0.0 68.9 103.3#
 89 0.0 36.1 54.1#





#95

Naphthalene

Concen: 4.426 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.00 min

Lab File: VN051852.D

Acq: 13 Oct 2018 00:02

Instrument :

MSVOA_N

ClientSampleId :

PB113779ZHE#05

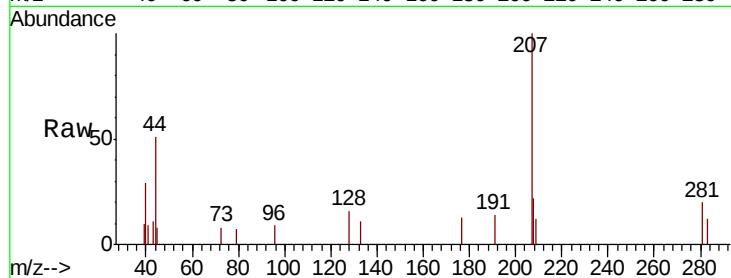
Tot Ion:128 Resp: 426

Ion Ratio Lower Upper

128 100

127 0.0 10.5 15.7#

129 0.0 8.7 13.1#



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

