

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN021819\
 Data File : VN053845.D
 Acq On : 18 Feb 2019 16:08
 Operator : JC/SP
 Sample : PB117159ZHE#09
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB117159ZHE#09

Quant Time: Feb 19 03:02:19 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N013019W.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 01 09:11:52 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	670243	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1113038	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1133186	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	419201	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	353451	52.57	ug/l	0.00
Spiked Amount 50.000			Recovery	=	105.14%	
35) Dibromofluoromethane	7.59	113	352210	50.08	ug/l	0.00
Spiked Amount 50.000			Recovery	=	100.16%	
50) Toluene-d8	10.09	98	1355034	51.31	ug/l	0.00
Spiked Amount 50.000			Recovery	=	102.62%	
62) 4-Bromofluorobenzene	12.40	95	469569	53.32	ug/l	0.00
Spiked Amount 50.000			Recovery	=	106.64%	

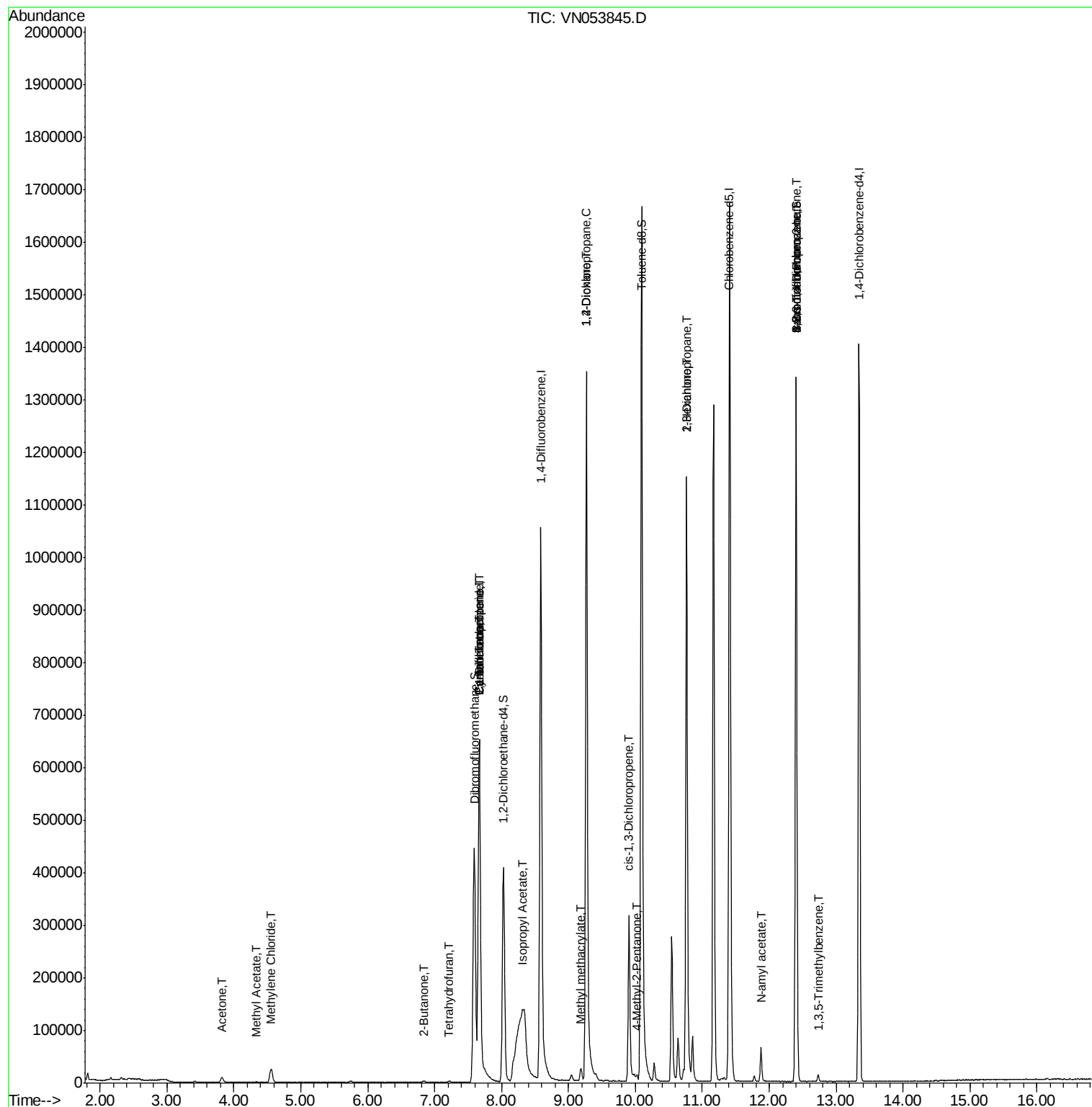
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.82	43	17929	10.396	ug/l	97
18) Methyl Acetate	4.33	43	2751	0.539	ug/l #	87
20) Methylene Chloride	4.56	84	20794	2.874	ug/l	98
25) 2-Butanone	6.84	43	3626	1.474	ug/l	93
29) Tetrahydrofuran	7.21	42	594	0.376	ug/l #	52
31) Cyclohexane	7.67	56	9165	0.639	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	40796	4.066	ug/l #	48
38) Carbon Tetrachloride	7.67	117	51854	5.130	ug/l #	16
43) Isopropyl Acetate	8.31	43	296140	27.365	ug/l #	52
45) 1,2-Dichloropropane	9.27	63	1765	0.223	ug/l #	43
48) Methyl methacrylate	9.18	41	9397	1.819	ug/l #	12
49) 1,4-Dioxane	9.27	88	33	39.522	ug/l #	1
51) 4-Methyl-2-Pentanone	10.02	43	9661	1.817	ug/l #	34
54) cis-1,3-Dichloropropene	9.90	75	66118	5.618	ug/l #	64
57) 1,3-Dichloropropane	10.76	76	13598	1.202	ug/l #	43
59) 2-Hexanone	10.76	43	172449	47.768	ug/l #	50
71) Bromoform	12.40	173	3415	0.593	ug/l #	1
74) N-amyl acetate	11.88	43	19026	2.685	ug/l #	50
76) 1,2,3-Trichloropropane	12.40	75	215695	40.059	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	6204	0.254	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.40	75	215695	112.644	ug/l #	15

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

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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: VN053845.D

Acq: 18 Feb 2019 16:08

Instrument :

MSVOA_N

ClientSampleId :

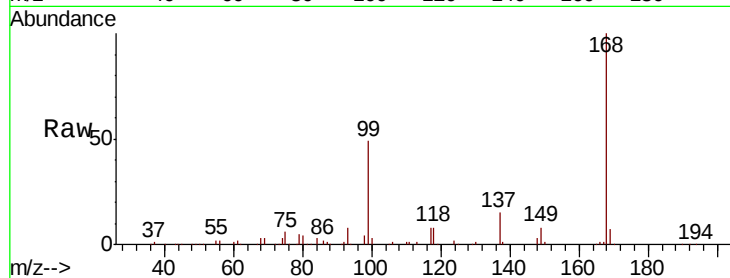
PB117159ZHE#09

Tgt Ion:168 Resp: 670243

Ion Ratio Lower Upper

168 100

99 48.6 39.1 58.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.67

250000

200000

150000

100000

50000

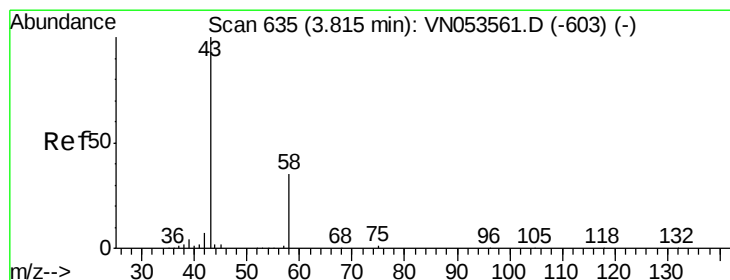
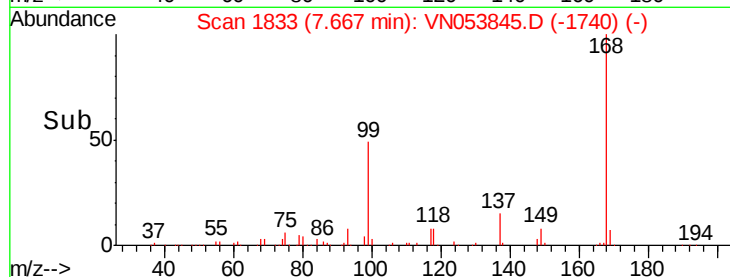
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Time-->

7.60

7.80

8.00



#16

Acetone

Concen: 10.396 ug/l

RT: 3.82 min Scan# 636

Delta R.T. 0.00 min

Lab File: VN053845.D

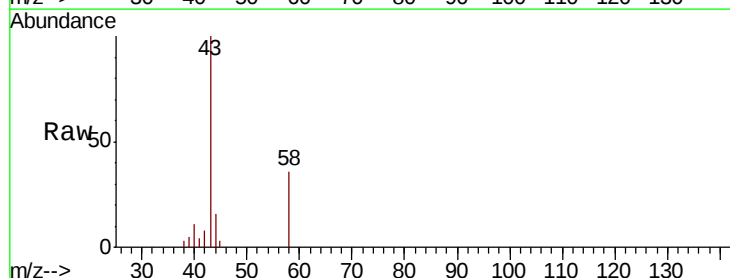
Acq: 18 Feb 2019 16:08

Tgt Ion: 43 Resp: 17929

Ion Ratio Lower Upper

43 100

58 35.7 27.1 40.7



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

3.82

6000

4000

2000

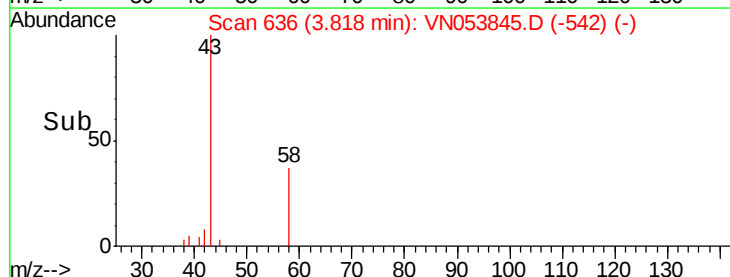
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Time-->

3.70

3.80

3.90

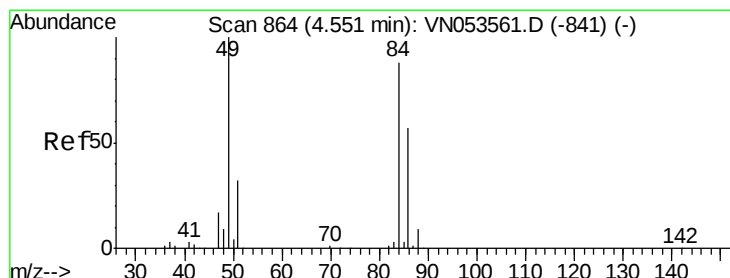
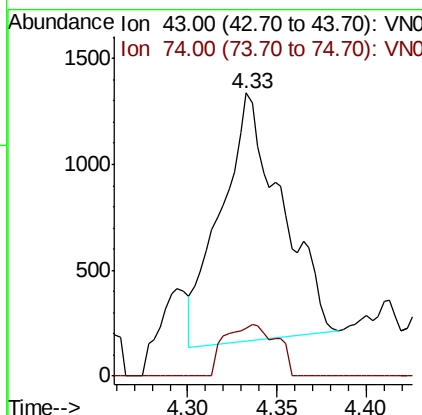
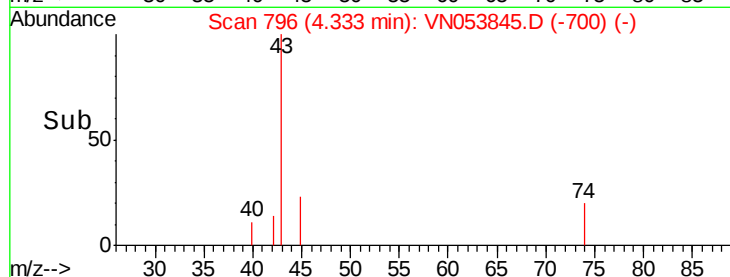
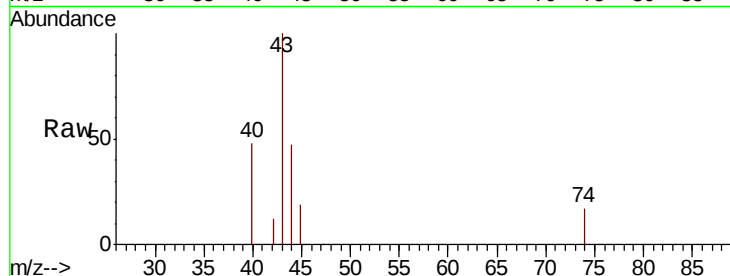




#18
Methyl Acetate
Concen: 0.539 ug/l
RT: 4.33 min Scan# 796
Delta R.T. 0.01 min
Lab File: VN053845.D
Acq: 18 Feb 2019 16:08

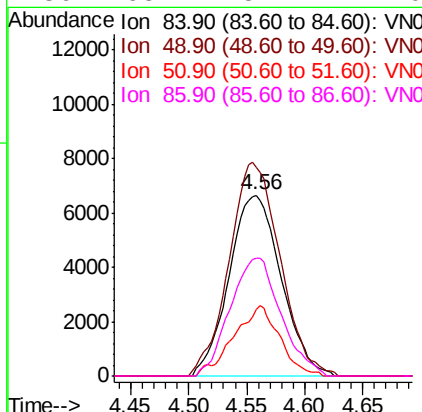
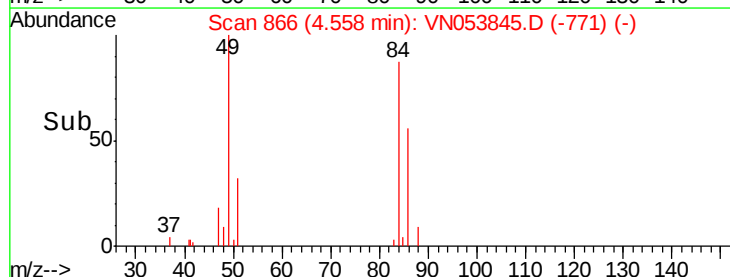
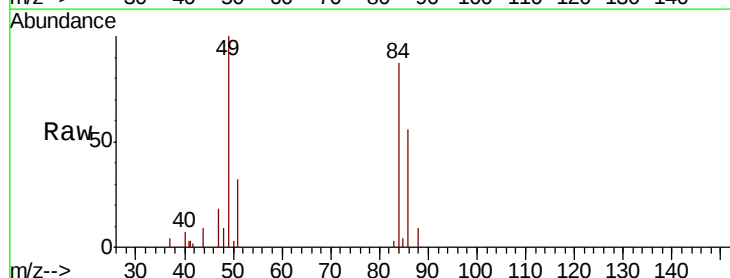
Instrument :
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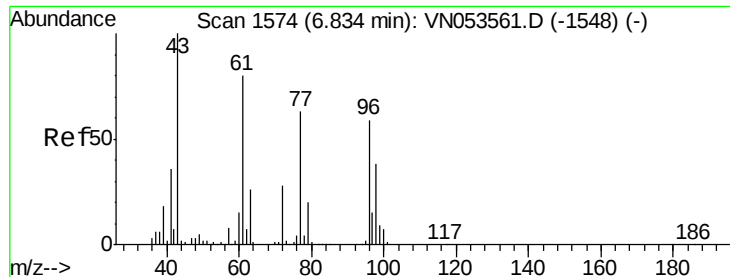
Tgt Ion: 43 Resp: 2751
Ion Ratio Lower Upper
43 100
74 18.0 19.4 29.2#



#20
Methylene Chloride
Concen: 2.874 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.01 min
Lab File: VN053845.D
Acq: 18 Feb 2019 16:08

Tgt Ion: 84 Resp: 20794
Ion Ratio Lower Upper
84 100
49 115.6 94.3 141.5
51 37.1 29.4 44.2
86 65.1 51.4 77.0

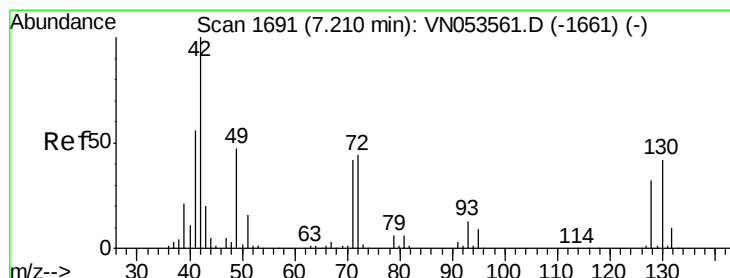
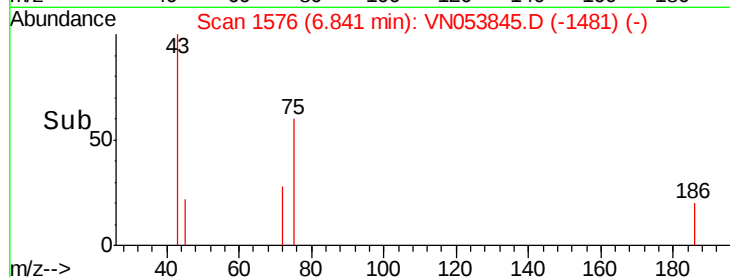
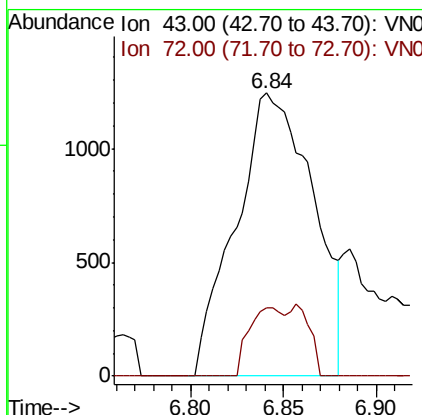
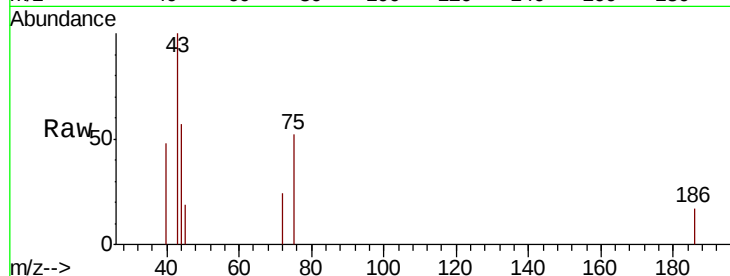




#25
2-Butanone
Concen: 1.474 ug/l
RT: 6.84 min Scan# 1576
Delta R.T. 0.01 min
Lab File: VN053845.D
Acq: 18 Feb 2019 16:08

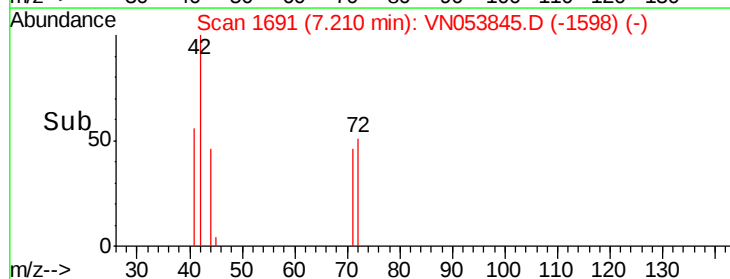
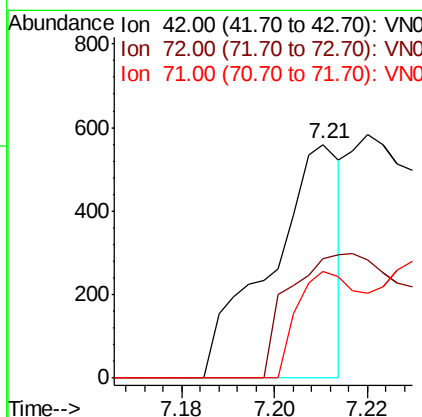
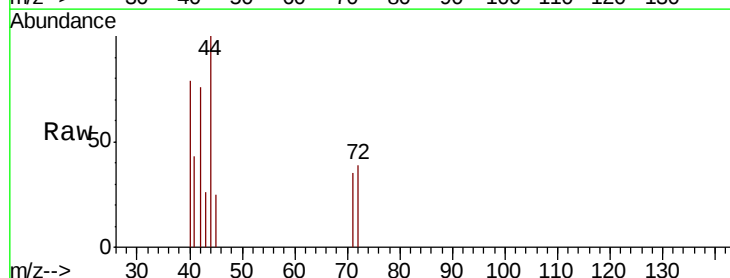
Instrument :
MSVOA_N
ClientSampleId :
PB117159ZHE#09

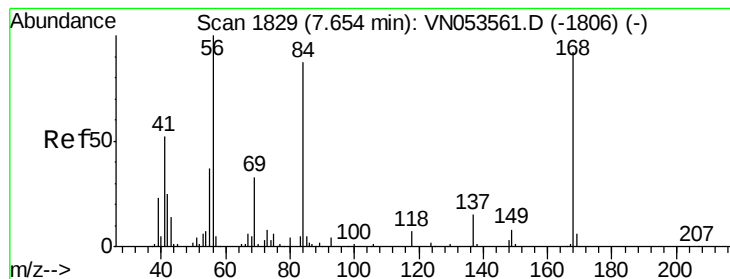
Tgt Ion: 43 Resp: 3626
Ion Ratio Lower Upper
43 100
72 24.0 22.0 33.0



#29
Tetrahydrofuran
Concen: 0.376 ug/l
RT: 7.21 min Scan# 1691
Delta R.T. 0.00 min
Lab File: VN053845.D
Acq: 18 Feb 2019 16:08

Tgt Ion: 42 Resp: 594
Ion Ratio Lower Upper
42 100
72 102.7 35.2 52.8#
71 42.3 33.0 49.4





#31

Cyclohexane

Concen: 0.639 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.01 min

Lab File: VN053845.D

Acq: 18 Feb 2019 16:08

Instrument :

MSVOA_N

ClientSampleId :

PB117159ZHE#09

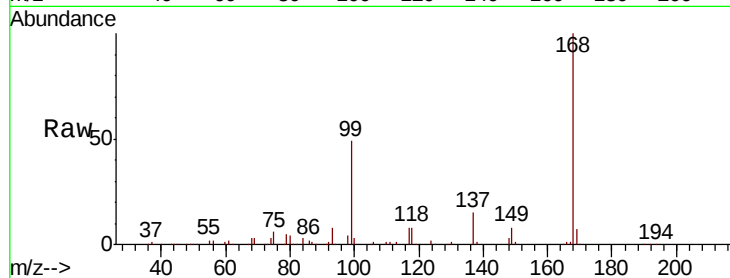
Tgt Ion: 56 Resp: 9165

Ion Ratio Lower Upper

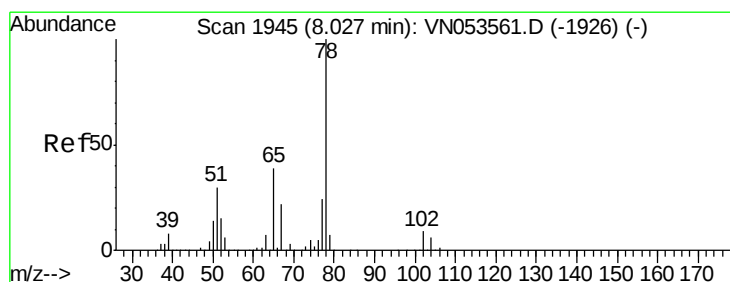
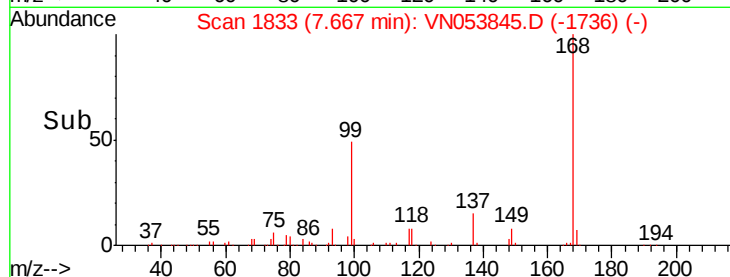
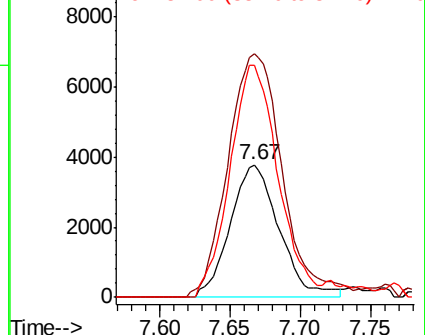
56 100

69 179.0 26.4 39.6#

84 175.1 67.9 101.9#



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



#33

1,2-Dichloroethane-d4

Concen: 52.567 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN053845.D

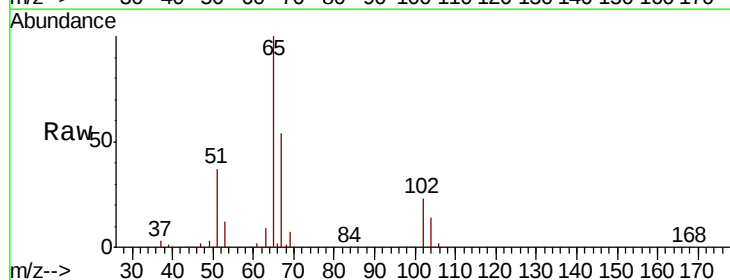
Acq: 18 Feb 2019 16:08

Tgt Ion: 65 Resp: 353451

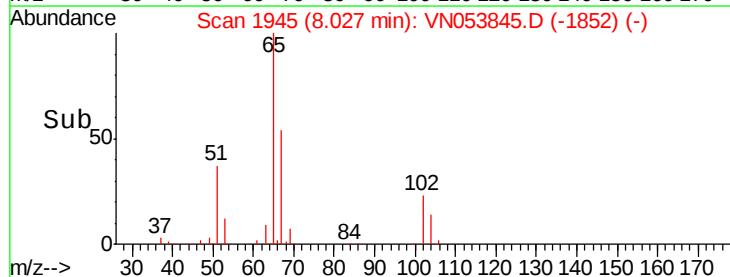
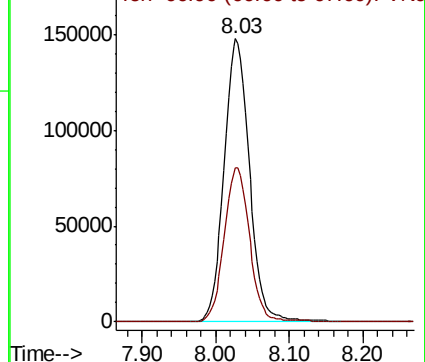
Ion Ratio Lower Upper

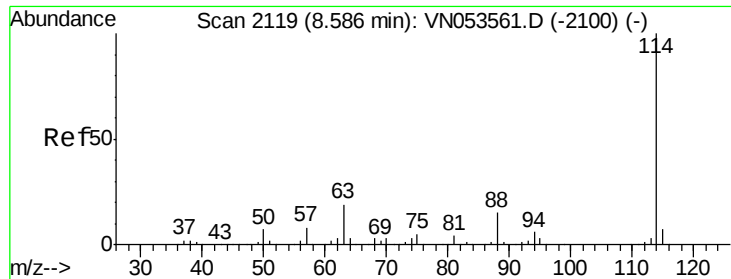
65 100

67 54.4 0.0 111.2



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

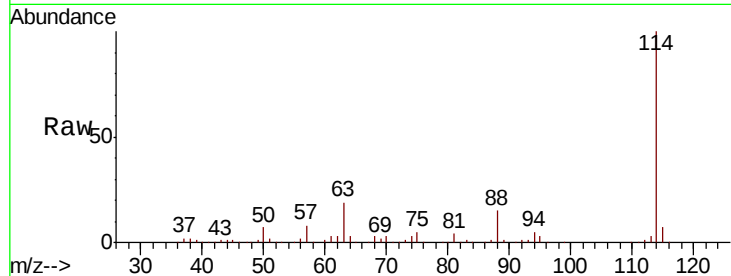




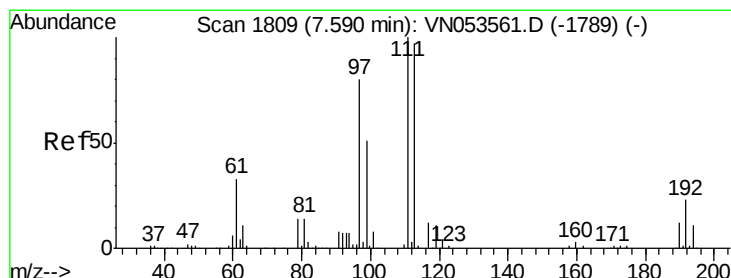
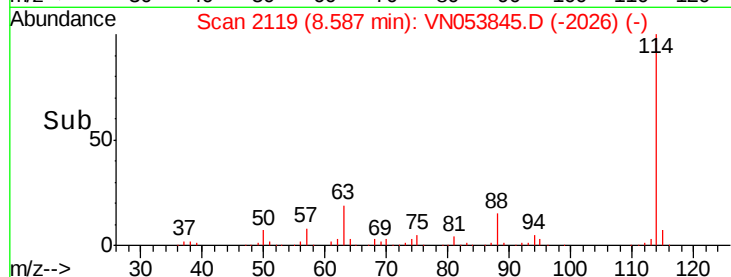
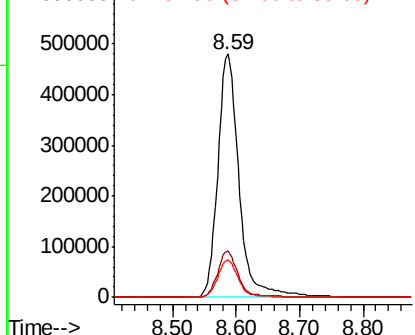
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.59 min Scan# 2119
Delta R.T. 0.00 min
Lab File: VN053845.D
Acq: 18 Feb 2019 16:08

Instrument :
MSVOA_N
ClientSampleId :
PB117159ZHE#09

Tgt Ion:114 Resp: 1113038
Ion Ratio Lower Upper
114 100
63 19.0 0.0 38.6
88 15.3 0.0 30.4

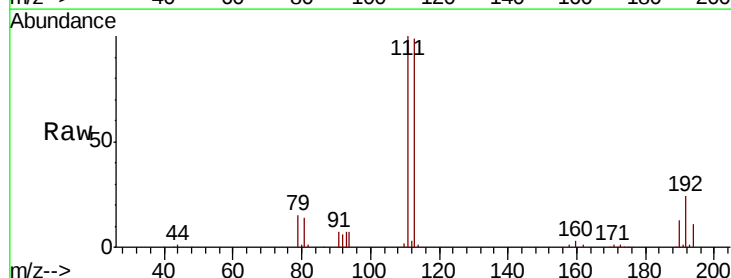


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

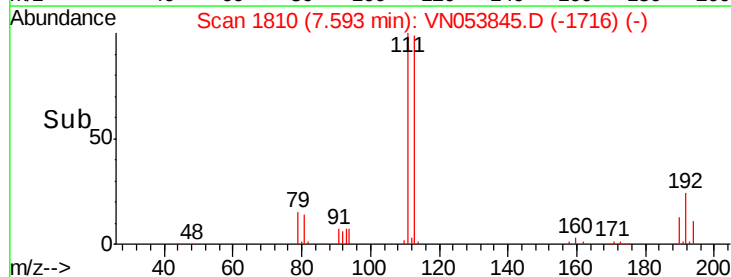
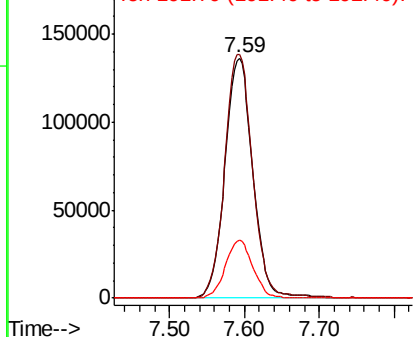


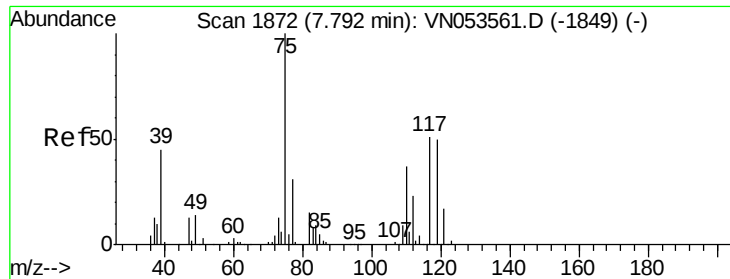
#35
Dibromofluoromethane
Concen: 50.080 ug/l
RT: 7.59 min Scan# 1810
Delta R.T. 0.00 min
Lab File: VN053845.D
Acq: 18 Feb 2019 16:08

Tgt Ion:113 Resp: 352210
Ion Ratio Lower Upper
113 100
111 101.4 81.1 121.7
192 23.9 18.2 27.2



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

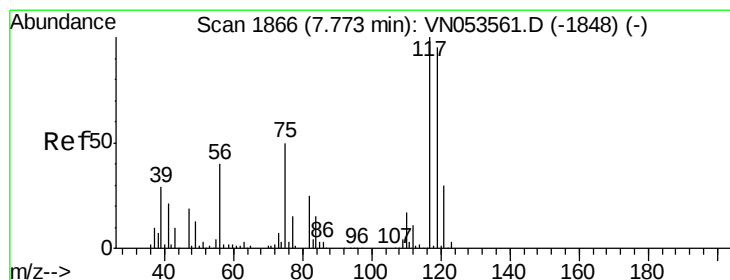
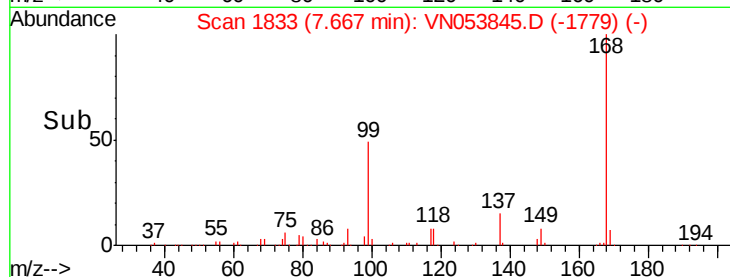
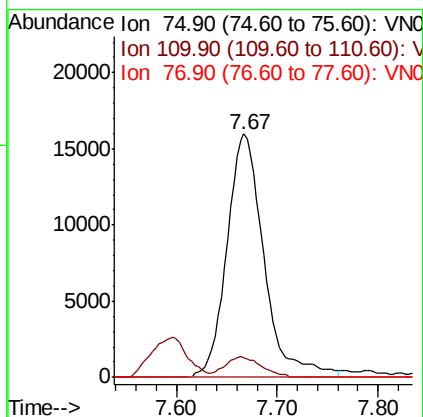
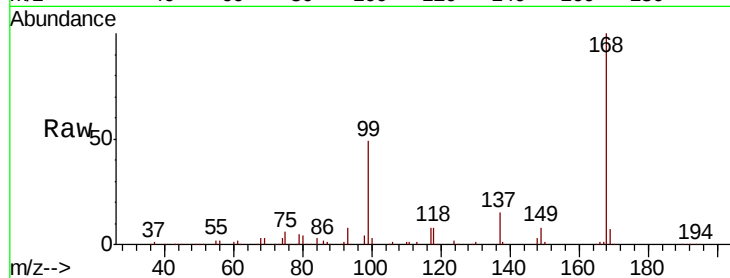




#36
 1,1-Dichloropropene
 Concen: 4.066 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN053845.D
 Acq: 18 Feb 2019 16:08

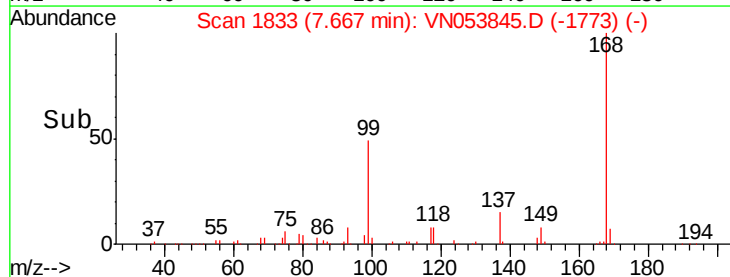
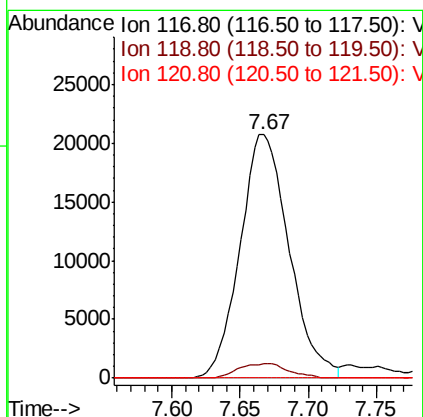
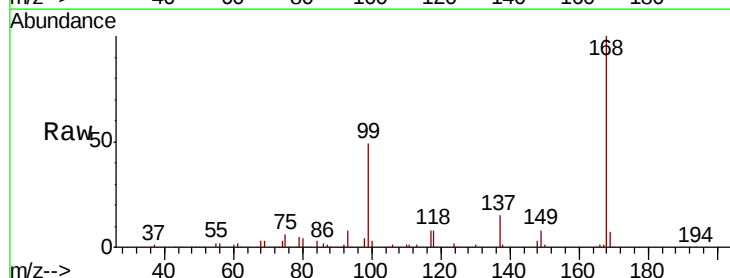
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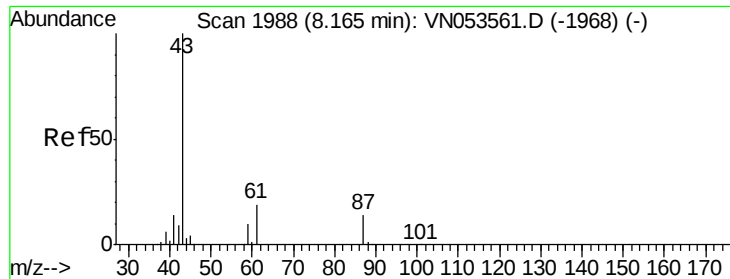
Tgt Ion: 75 Resp: 40796
 Ion Ratio Lower Upper
 75 100
 110 8.4 18.1 54.3#
 77 0.0 25.1 37.7#



#38
 Carbon Tetrachloride
 Concen: 5.130 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.11 min
 Lab File: VN053845.D
 Acq: 18 Feb 2019 16:08

Tgt Ion: 117 Resp: 51854
 Ion Ratio Lower Upper
 117 100
 119 6.0 77.2 115.8#
 121 0.0 24.6 37.0#





#43

Isopropyl Acetate

Concen: 27.365 ug/l

RT: 8.31 min Scan# 2034

Delta R.T. 0.15 min

Lab File: VN053845.D

Acq: 18 Feb 2019 16:08

Instrument :

MSVOA_N

ClientSampleId :

PB117159ZHE#09

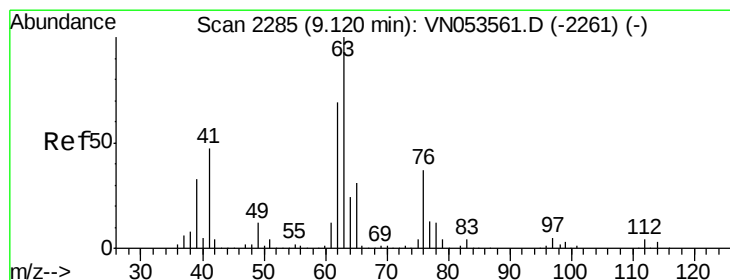
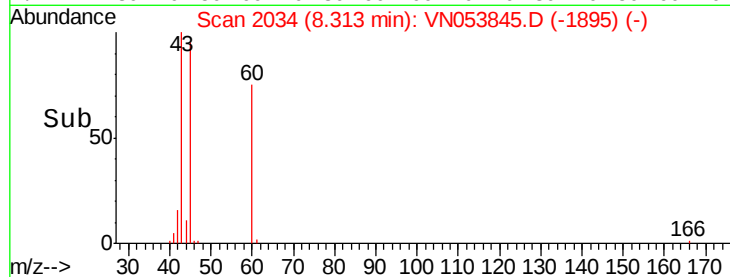
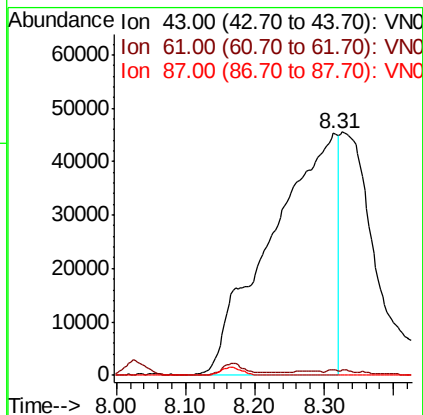
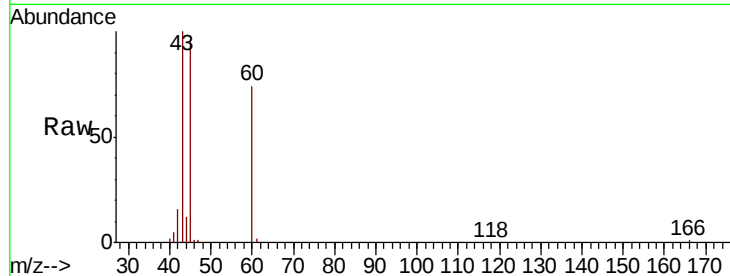
Tgt Ion: 43 Resp: 296140

Ion Ratio Lower Upper

43 100

61 0.2 23.9 35.9#

87 0.0 11.0 16.6#



#45

1,2-Dichloropropane

Concen: 0.223 ug/l

RT: 9.27 min Scan# 2332

Delta R.T. 0.15 min

Lab File: VN053845.D

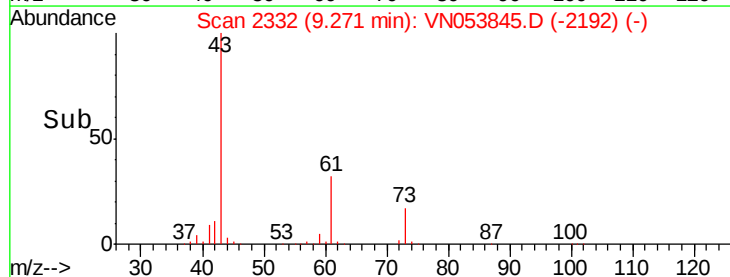
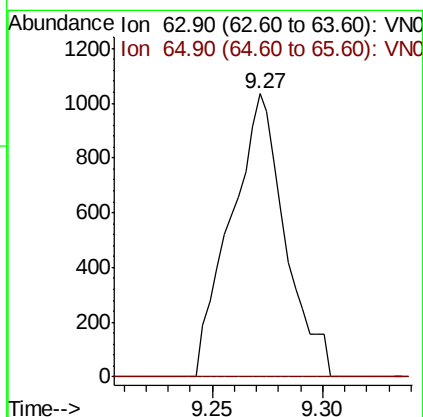
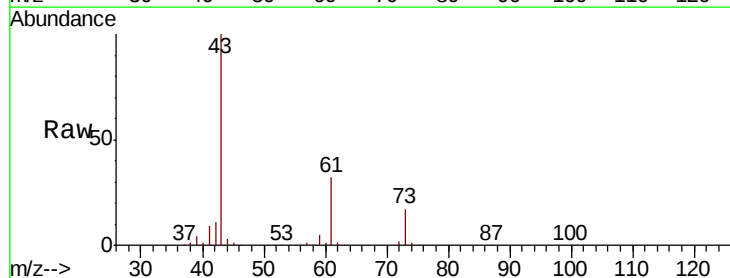
Acq: 18 Feb 2019 16:08

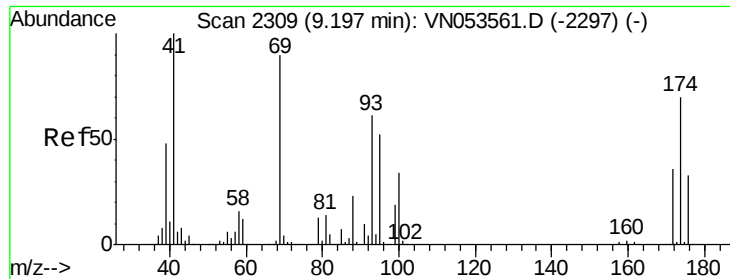
Tgt Ion: 63 Resp: 1765

Ion Ratio Lower Upper

63 100

65 0.0 25.0 37.4#

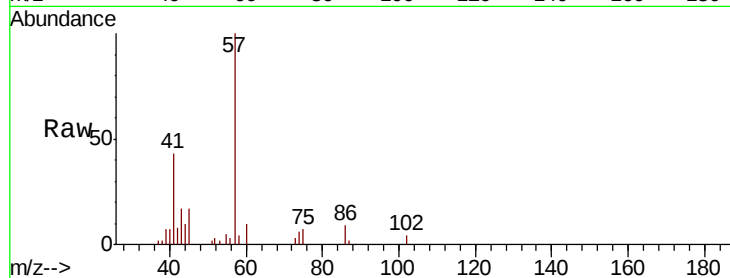




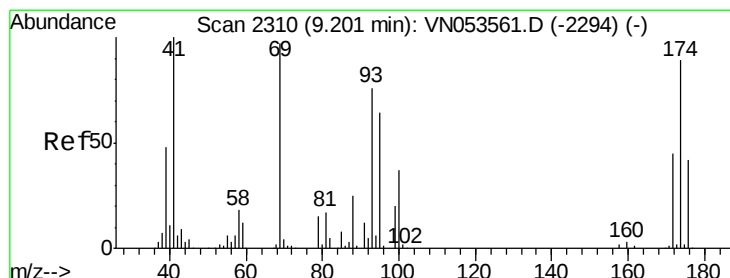
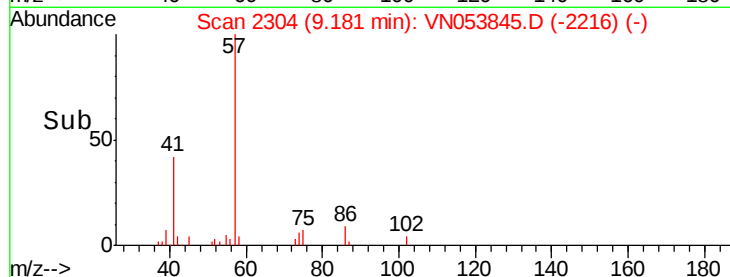
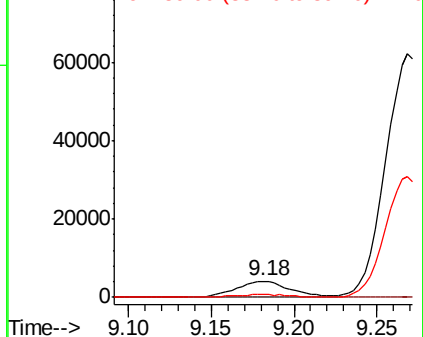
#48
Methyl methacrylate
Concen: 1.819 ug/l
RT: 9.18 min Scan# 2304
Delta R.T. -0.02 min
Lab File: VN053845.D
Acq: 18 Feb 2019 16:08

Instrument :
MSVOA_N
ClientSampleId :
PB117159ZHE#09

Tgt Ion: 41 Resp: 9397
Ion Ratio Lower Upper
41 100
69 0.0 73.8 110.6#
39 0.0 40.0 60.0#

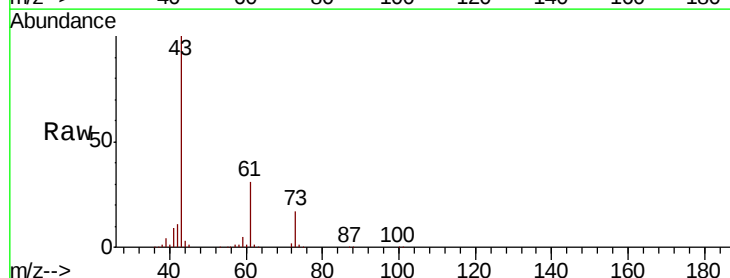


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

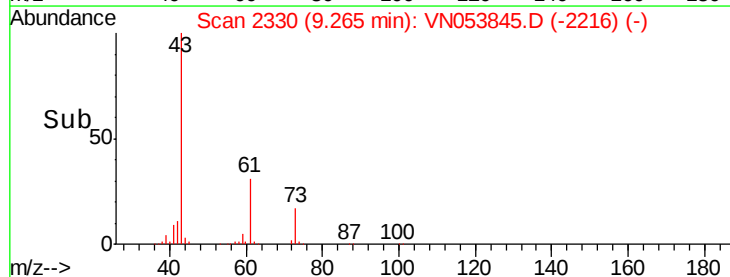
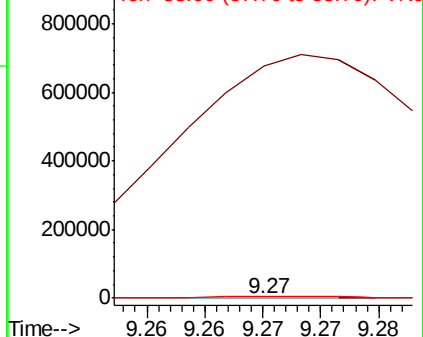


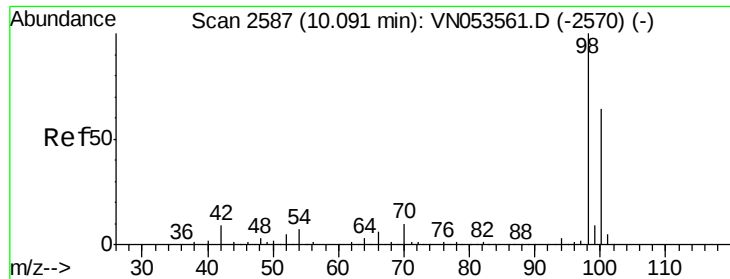
#49
1,4-Dioxane
Concen: 39.522 ug/l
RT: 9.27 min Scan# 2330
Delta R.T. 0.07 min
Lab File: VN053845.D
Acq: 18 Feb 2019 16:08

Tgt Ion: 88 Resp: 33
Ion Ratio Lower Upper
88 100
43 4404251.5 27.8 41.6#
58 22236.4 56.5 84.7#



Abundance Ion 88.00 (87.70 to 88.70): VN0
Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0





#50

Toluene-d8

Concen: 51.313 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN053845.D

Acq: 18 Feb 2019 16:08

Instrument :

MSVOA_N

ClientSampleId :

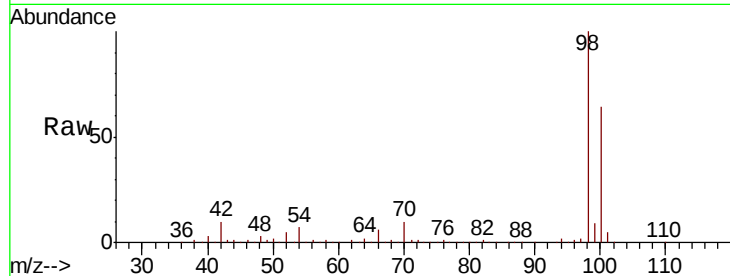
PB117159ZHE#09

Tgt Ion: 98 Resp: 1355034

Ion Ratio Lower Upper

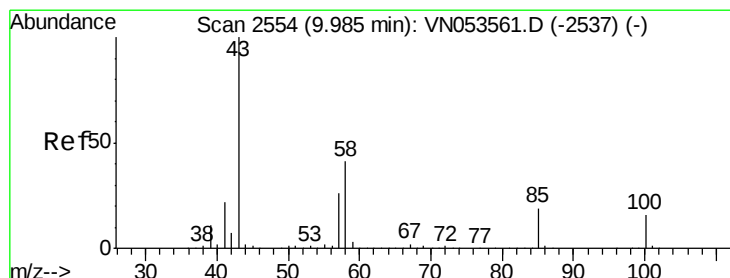
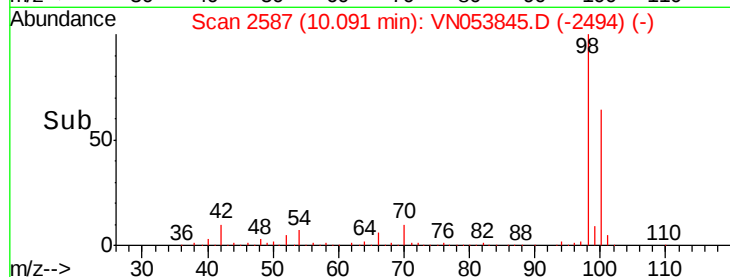
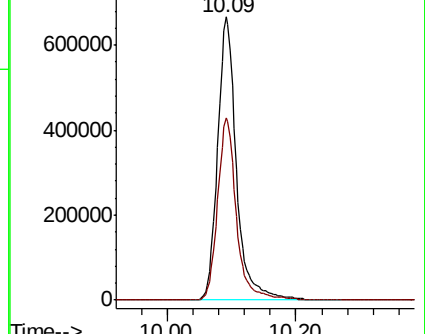
98 100

100 64.4 51.4 77.0



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN



#51

4-Methyl-2-Pentanone

Concen: 1.817 ug/l

RT: 10.02 min Scan# 2566

Delta R.T. 0.04 min

Lab File: VN053845.D

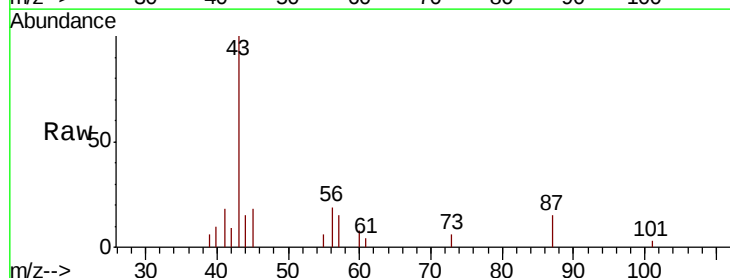
Acq: 18 Feb 2019 16:08

Tgt Ion: 43 Resp: 9661

Ion Ratio Lower Upper

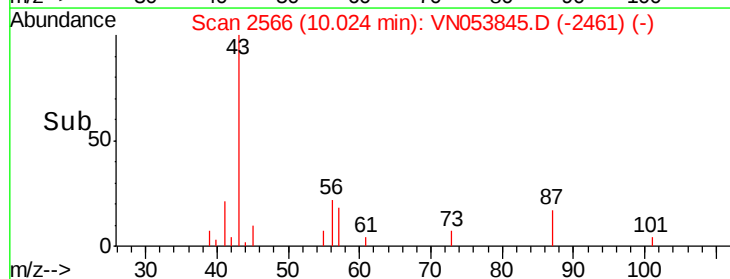
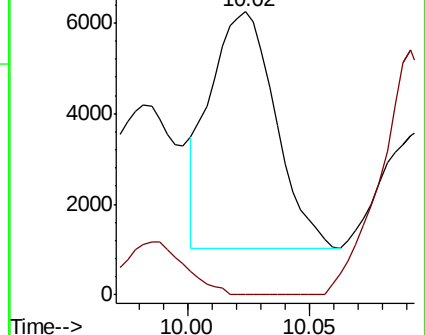
43 100

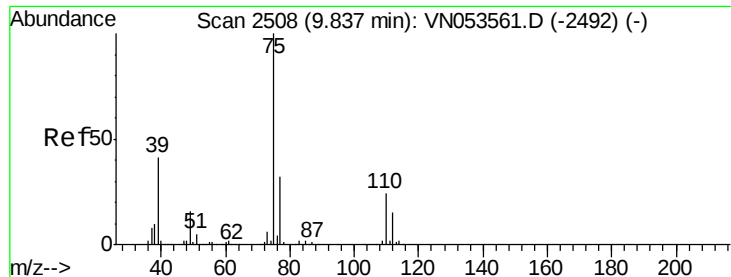
58 0.0 32.8 49.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#54

cis-1,3-Dichloropropene

Concen: 5.618 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.07 min

Lab File: VN053845.D

Acq: 18 Feb 2019 16:08

Instrument :

MSVOA_N

ClientSampleId :

PB117159ZHE#09

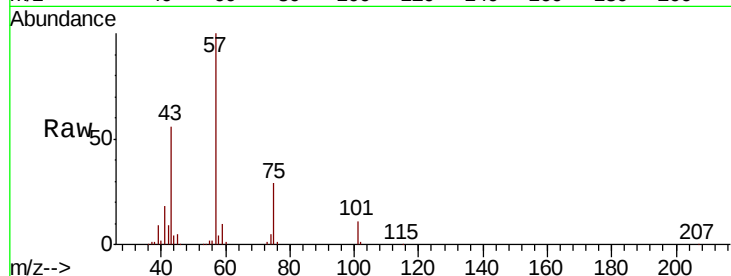
Tgt Ion: 75 Resp: 66118

Ion Ratio Lower Upper

75 100

77 0.0 25.8 38.6#

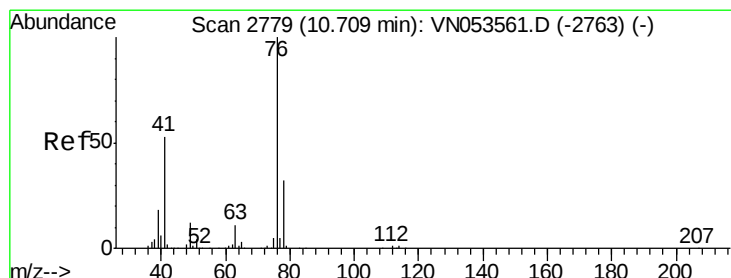
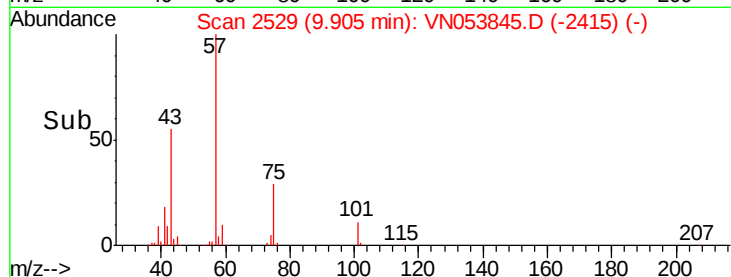
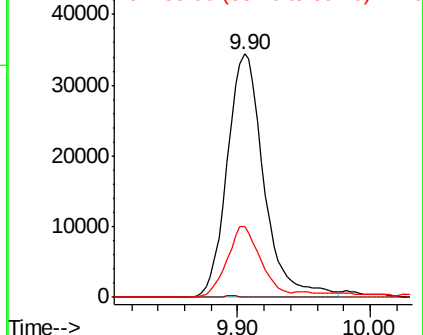
39 29.1 33.4 50.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0



#57

1,3-Dichloropropane

Concen: 1.202 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.05 min

Lab File: VN053845.D

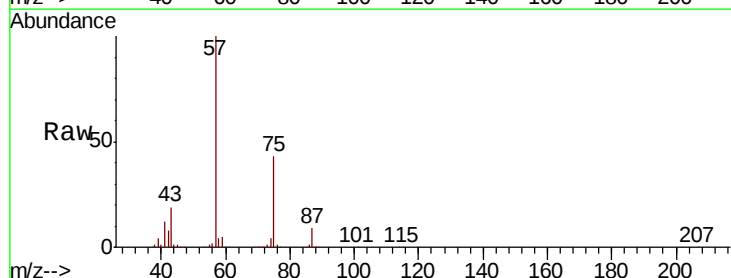
Acq: 18 Feb 2019 16:08

Tgt Ion: 76 Resp: 13598

Ion Ratio Lower Upper

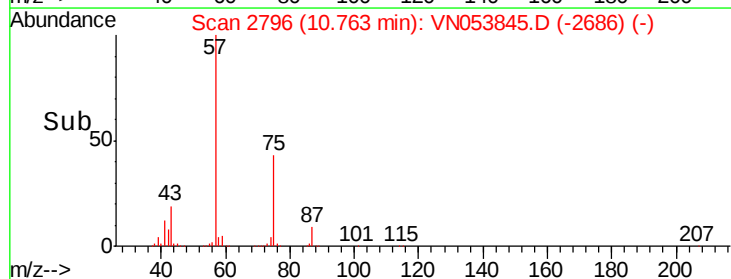
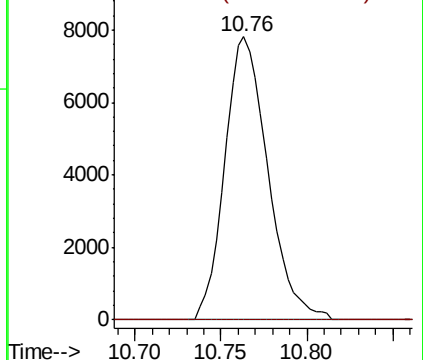
76 100

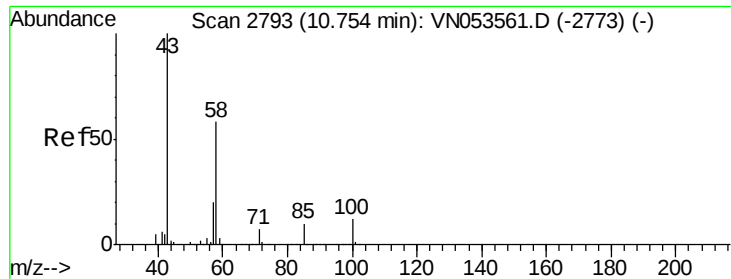
78 0.0 25.6 38.4#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

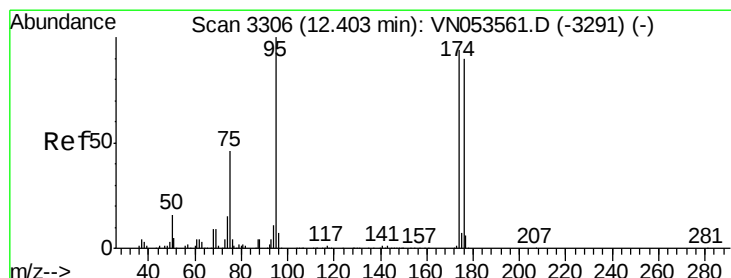
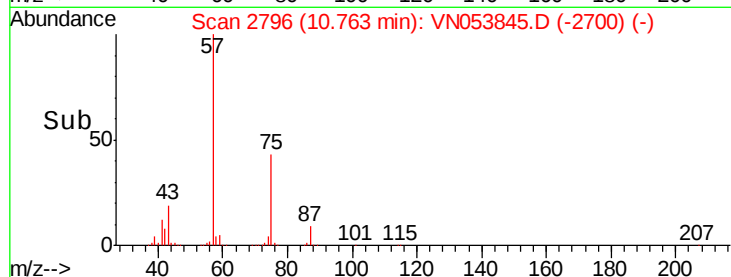
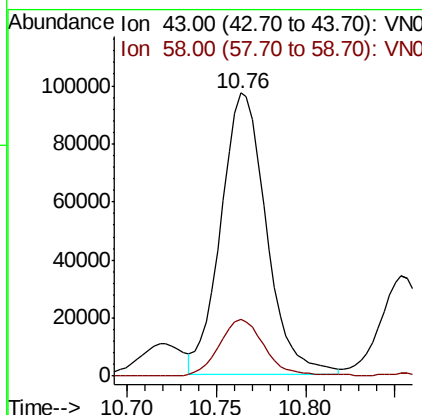
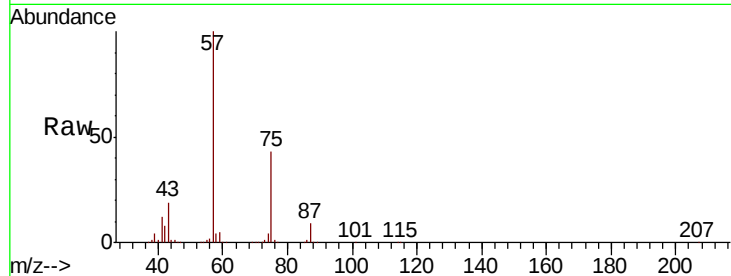




#59
 2-Hexanone
 Concen: 47.768 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.01 min
 Lab File: VN053845.D
 Acq: 18 Feb 2019 16:08

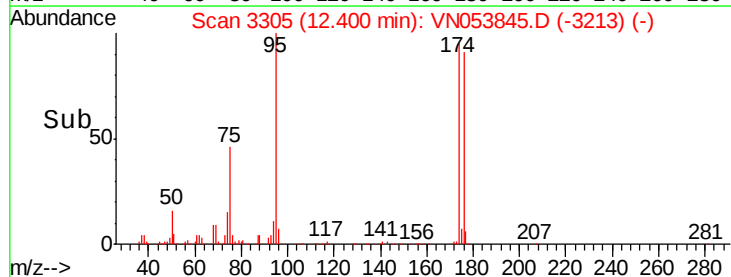
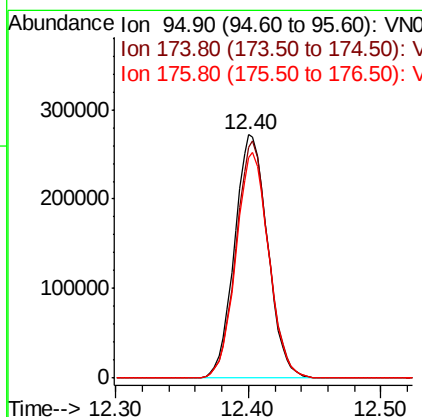
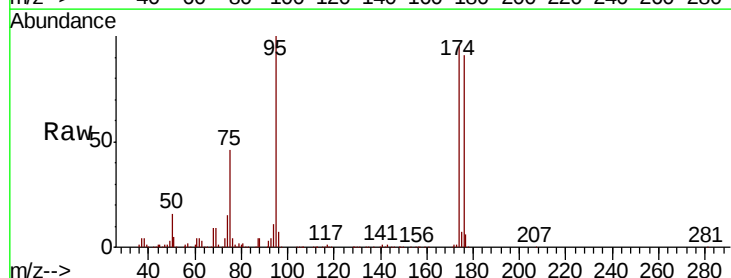
Instrument :
 MSVOA_N
 ClientSampleId :
 PB117159ZHE#09

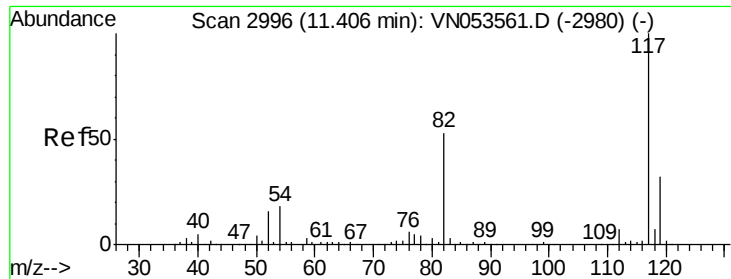
Tgt Ion: 43 Resp: 172449
 Ion Ratio Lower Upper
 43 100
 58 20.4 28.6 85.8#



#62
 4-Bromofluorobenzene
 Concen: 53.316 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. -0.00 min
 Lab File: VN053845.D
 Acq: 18 Feb 2019 16:08

Tgt Ion: 95 Resp: 469569
 Ion Ratio Lower Upper
 95 100
 174 95.7 0.0 183.2
 176 92.2 0.0 177.4

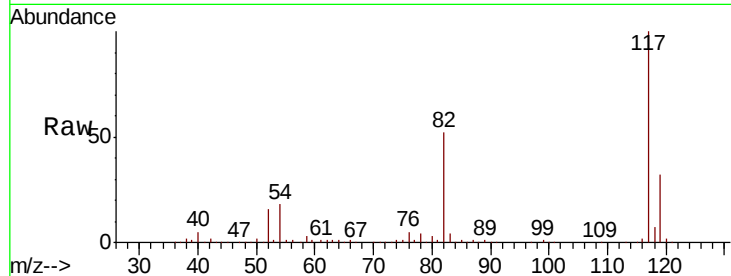




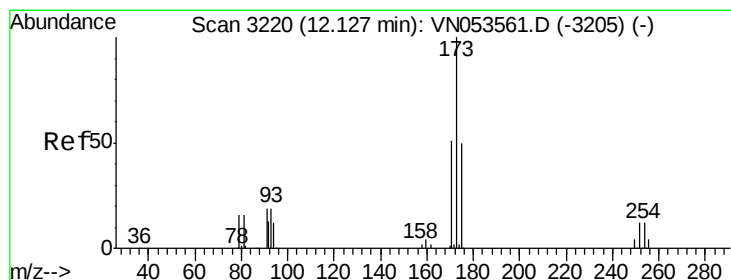
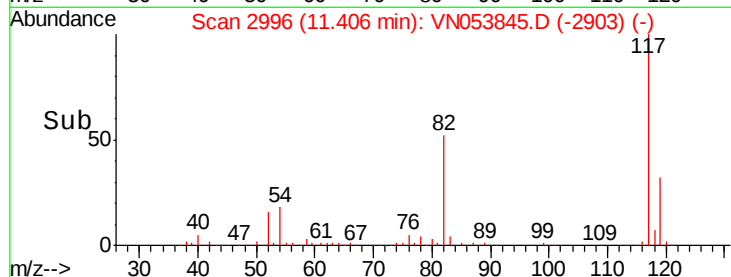
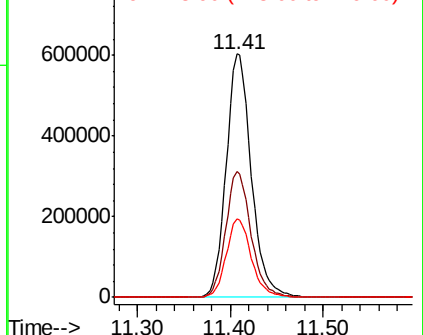
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN053845.D
Acq: 18 Feb 2019 16:08

Instrument :
MSVOA_N
ClientSampleId :
PB117159ZHE#09

Tgt Ion:117 Resp: 1133186
Ion Ratio Lower Upper
117 100
82 51.5 42.9 64.3
119 32.1 26.0 39.0

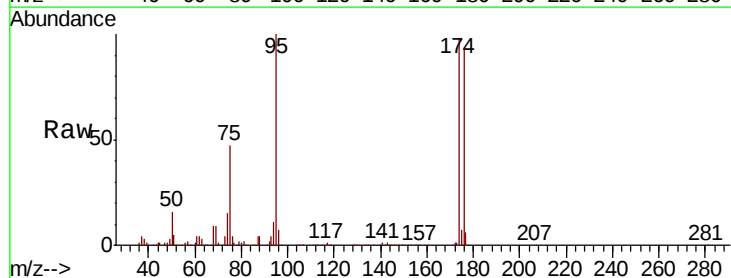


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

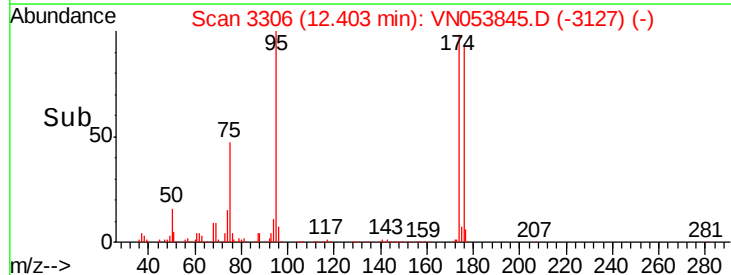
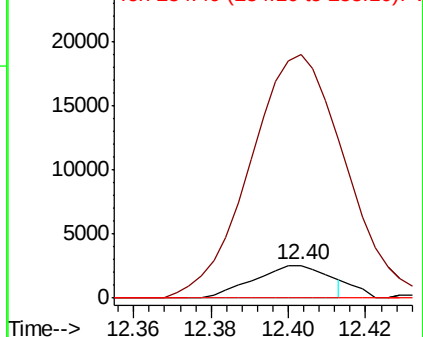


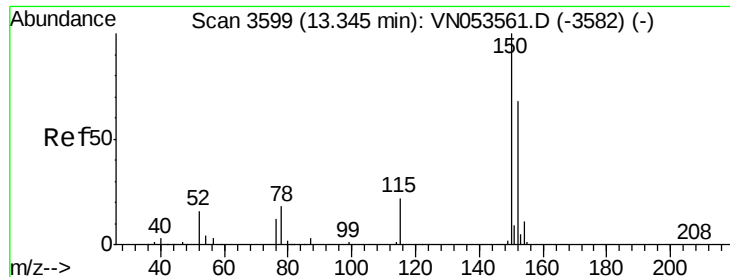
#71
Bromoform
Concen: 0.593 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN053845.D
Acq: 18 Feb 2019 16:08

Tgt Ion:173 Resp: 3415
Ion Ratio Lower Upper
173 100
175 810.0 24.6 74.0#
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: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN053845.D

Acq: 18 Feb 2019 16:08

Instrument :

MSVOA_N

ClientSampleId :

PB117159ZHE#09

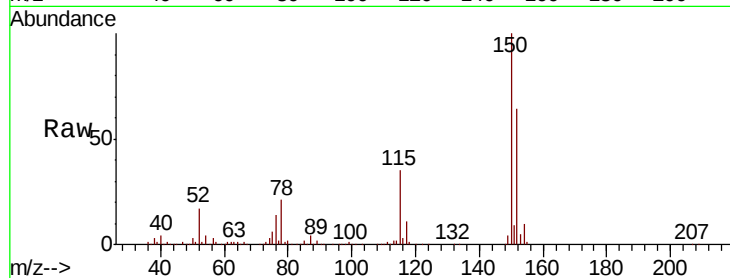
Tgt Ion:152 Resp: 419201

Ion Ratio Lower Upper

152 100

115 54.7 27.8 83.4

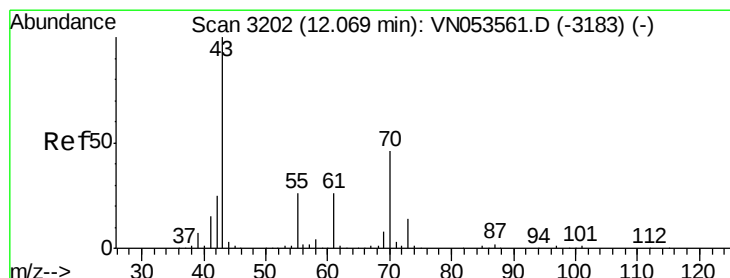
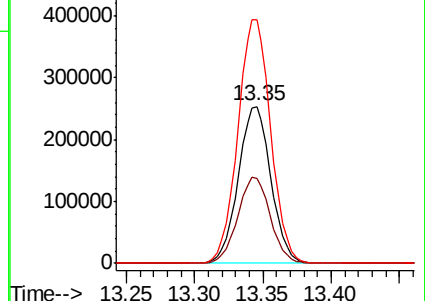
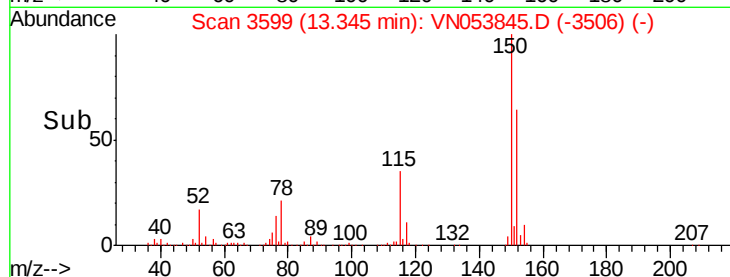
150 156.2 0.0 349.0



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



#74

N-ethyl acetate

Concen: 2.685 ug/l

RT: 11.88 min Scan# 3142

Delta R.T. -0.19 min

Lab File: VN053845.D

Acq: 18 Feb 2019 16:08

Tgt Ion: 43 Resp: 19026

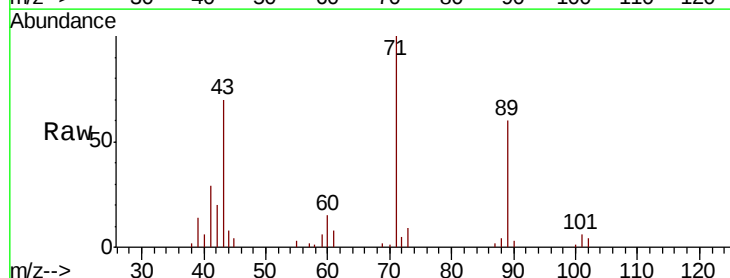
Ion Ratio Lower Upper

43 100

70 1.3 35.4 53.2#

55 4.8 20.9 31.3#

61 10.8 20.5 30.7#

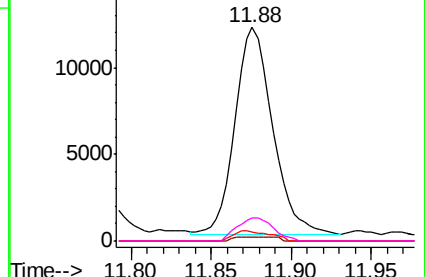
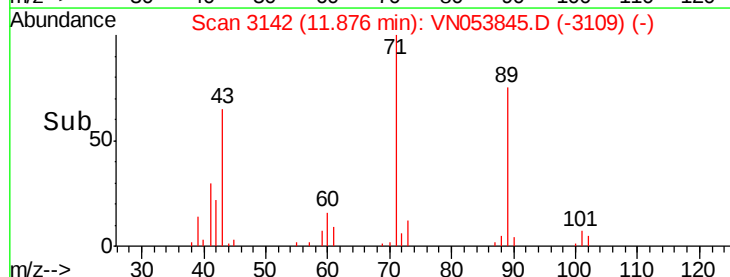


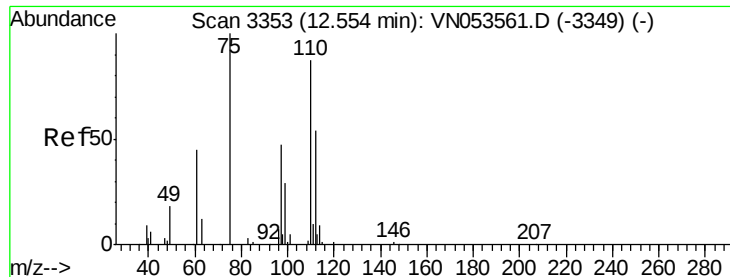
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#76

1,2,3-Trichloropropane

Concen: 40.059 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN053845.D

Acq: 18 Feb 2019 16:08

Instrument :

MSVOA_N

ClientSampleId :

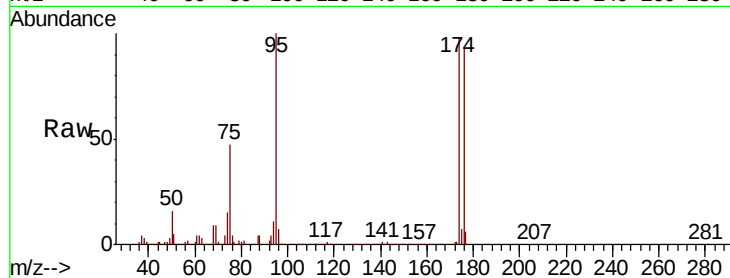
PB117159ZHE#09

Tgt Ion: 75 Resp: 215695

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN053561.D (-3349) (-)

Ion 77.00 (76.70 to 77.70): VN053561.D (-3349) (-)

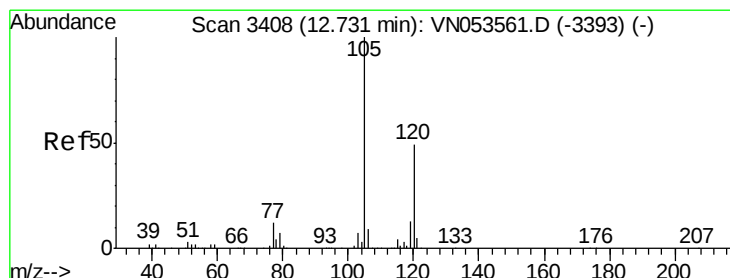
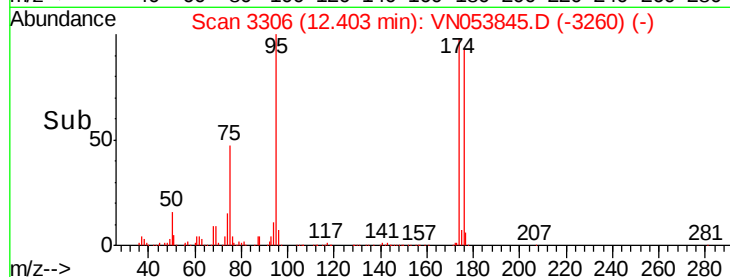
12.40

100000

50000

0

Time--> 12.30 12.40 12.50



#80

1,3,5-Trimethylbenzene

Concen: 0.254 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN053845.D

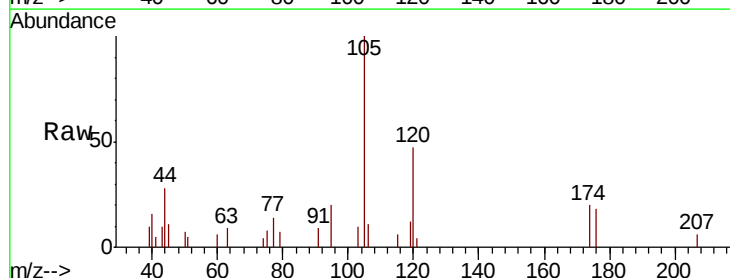
Acq: 18 Feb 2019 16:08

Tgt Ion: 105 Resp: 6204

Ion Ratio Lower Upper

105 100

120 50.3 24.9 74.6



Abundance Ion 105.00 (104.70 to 105.70): VN053561.D (-3393) (-)

Ion 120.00 (119.70 to 120.70): VN053561.D (-3393) (-)

12.73

4000

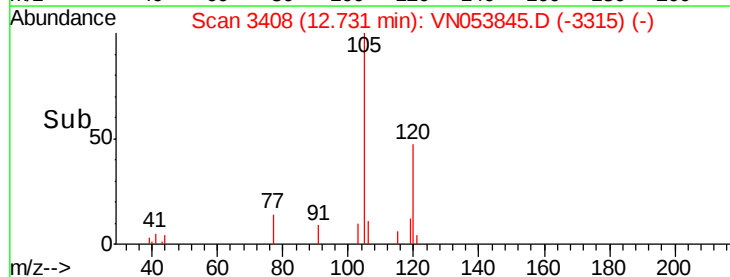
3000

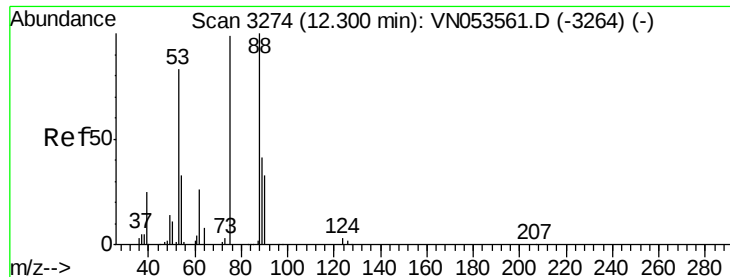
2000

1000

0

Time--> 12.70 12.75





#81

trans-1,4-Dichloro-2-butene

Concen: 112.644 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN053845.D

Acq: 18 Feb 2019 16:08

Instrument :

MSVOA_N

ClientSampleId :

PB117159ZHE#09

Tgt Ion: 75 Resp: 215695

Ion Ratio Lower Upper

75 100

53 0.0 69.8 104.6#

89 0.0 35.6 53.4#

