

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092618\
 Data File : VN051509.D
 Acq On : 26 Sep 2018 2:08
 Operator : MD\SY
 Sample : PB113167ZHE#03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB113167ZHE#03

Quant Time: Sep 26 04:13:52 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N092318W.M
 Quant Title : SW846 8260
 QLast Update : Mon Sep 24 06:41:32 2018
 Response via : Initial Calibration

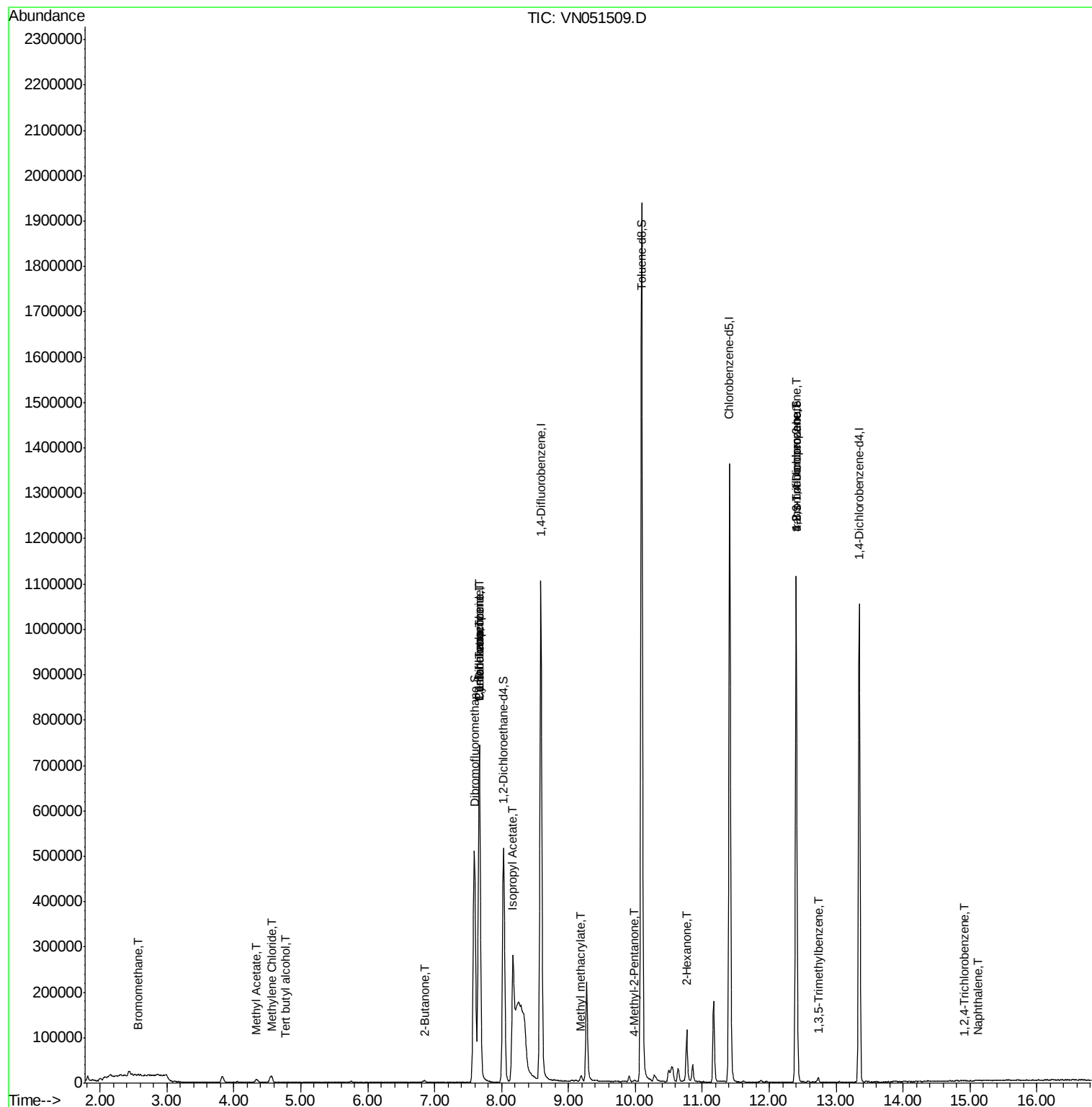
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	639895	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1025098	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	838615	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	303807	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	445235	55.54	ug/l	0.00
Spiked Amount 50.000			Recovery	=	111.08%	
35) Dibromofluoromethane	7.59	113	391297	47.74	ug/l	0.00
Spiked Amount 50.000			Recovery	=	95.48%	
50) Toluene-d8	10.09	98	1417268	45.91	ug/l	0.00
Spiked Amount 50.000			Recovery	=	91.82%	
62) 4-Bromofluorobenzene	12.40	95	380074	38.06	ug/l	0.00
Spiked Amount 50.000			Recovery	=	76.12%	
Target Compounds						
					Qvalue	
5) Bromomethane	2.57	94	1065	0.228	ug/l	82
8) Diethyl Ether	3.41	74	60	Below Cal	#	1
11) Tert butyl alcohol	4.77	59	142	0.314	ug/l #	78
16) Acetone	3.83	43	22229	Below Cal		99
18) Methyl Acetate	4.33	43	13676	2.240	ug/l	100
20) Methylene Chloride	4.56	84	11163	1.407	ug/l	93
25) 2-Butanone	6.85	43	3749	1.366	ug/l #	72
31) Cyclohexane	7.67	56	12430	0.985	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	45462	3.830	ug/l #	48
38) Carbon Tetrachloride	7.67	117	56906	4.583	ug/l #	16
43) Isopropyl Acetate	8.17	43	363749	29.473	ug/l #	88
48) Methyl methacrylate	9.18	41	6322	1.027	ug/l #	23
51) 4-Methyl-2-Pentanone	9.99	43	1927	0.284	ug/l #	72
59) 2-Hexanone	10.77	43	16701	3.796	ug/l #	61
76) 1,2,3-Trichloropropane	12.40	75	183240	36.333	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	4334	0.207	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.40	75	183240	111.721	ug/l #	13
93) 1,2,4-Trichlorobenzene	14.90	180	33	5.987	ug/l #	11
95) Naphthalene	15.13	128	964	8.116	ug/l #	69

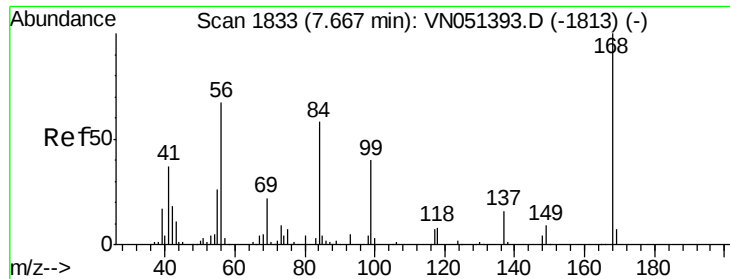
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Mon Sep 24 06:41:32 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.00 min

Lab File: VN051509.D

Acq: 26 Sep 2018 2:08

Instrument :

MSVOA_N

ClientSampleId :

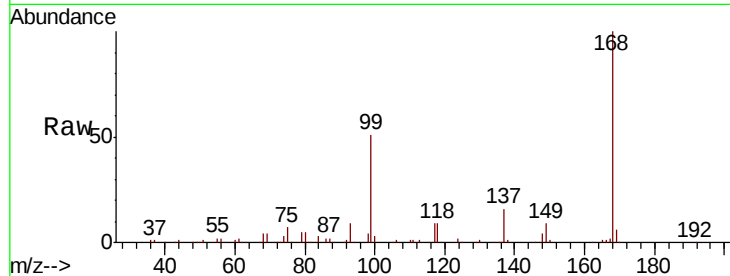
PB113167ZHE#03

Tot Ion:168 Resp: 639895

Ion Ratio Lower Upper

168 100

99 50.8 40.2 60.2



Abundance Ion 167.90 (167.60 to 168.60): VN051393.D (-1813) (-)

Ion 98.90 (98.60 to 99.60): VN051393.D (-1813) (-)

7.67

250000

200000

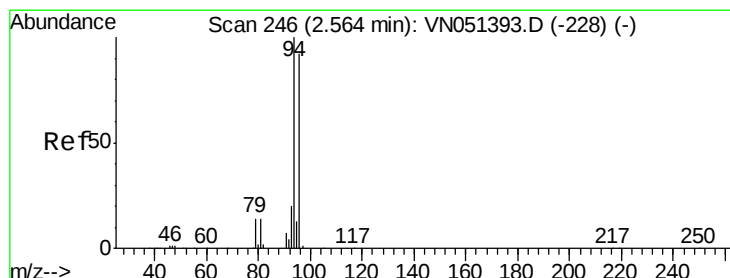
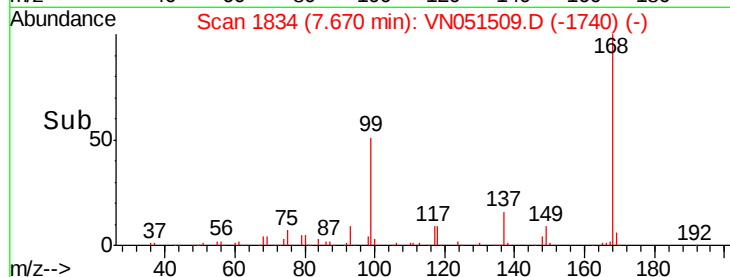
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: 0.228 ug/l

RT: 2.57 min Scan# 247

Delta R.T. 0.00 min

Lab File: VN051509.D

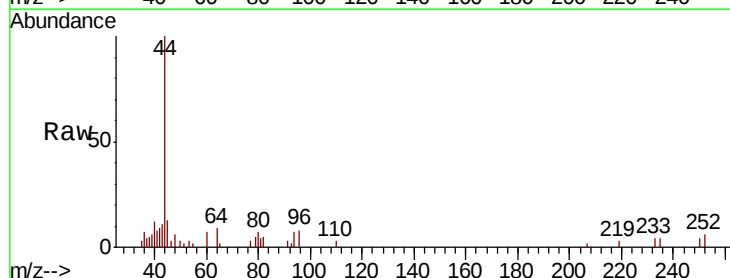
Acq: 26 Sep 2018 2:08

Tgt Ion: 94 Resp: 1065

Ion Ratio Lower Upper

94 100

96 109.3 73.6 110.4



Abundance Ion 93.90 (93.60 to 94.60): VN051393.D (-228) (-)

Ion 95.90 (95.60 to 96.60): VN051393.D (-228) (-)

2.57

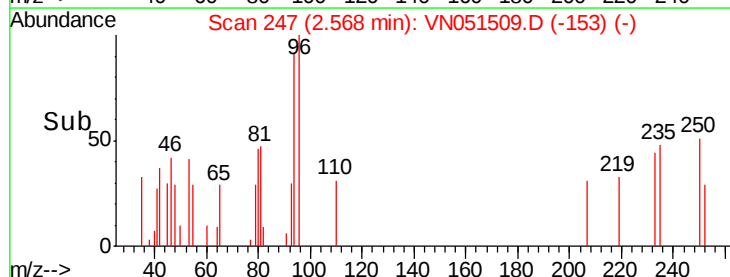
600

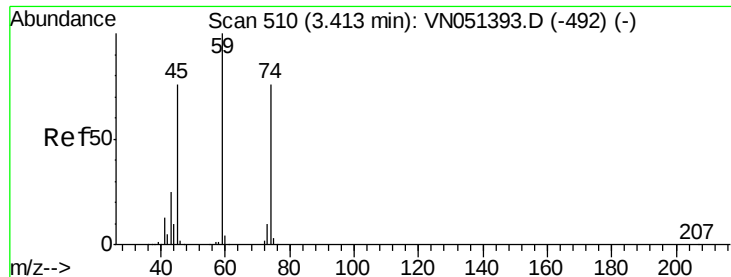
400

200

0

Time-->





#8

Diethyl Ether

Concen: Below Cal

RT: 3.41 min Scan# 510

Delta R.T. 0.00 min

Lab File: VN051509.D

Acq: 26 Sep 2018 2:08

Instrument :

MSVOA_N

ClientSampleId :

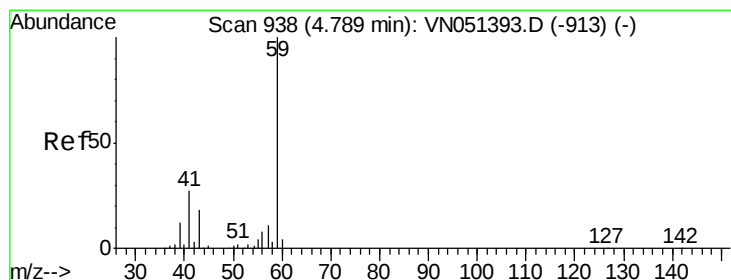
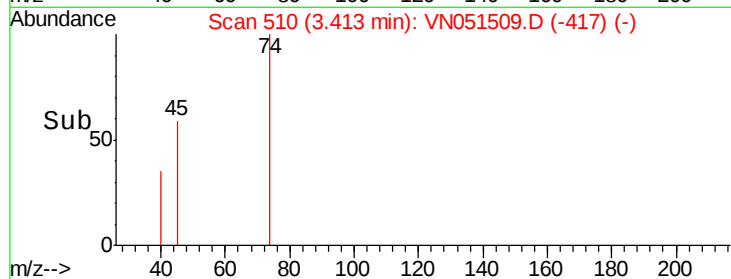
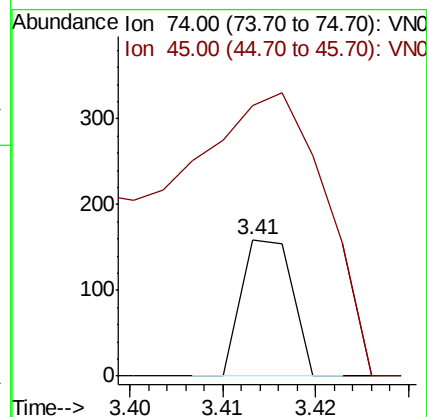
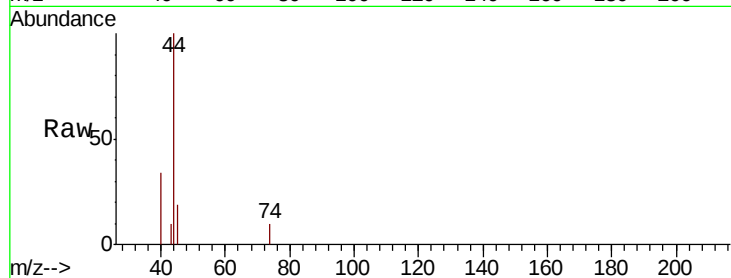
PB113167ZHE#03

Tot Ion: 74 Resp: 60

Ion Ratio Lower Upper

74 100

45 510.0 50.2 150.7#



#11

Tert butyl alcohol

Concen: 0.314 ug/l

RT: 4.77 min Scan# 933

Delta R.T. -0.02 min

Lab File: VN051509.D

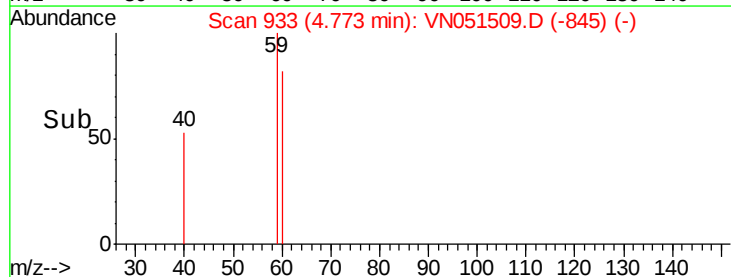
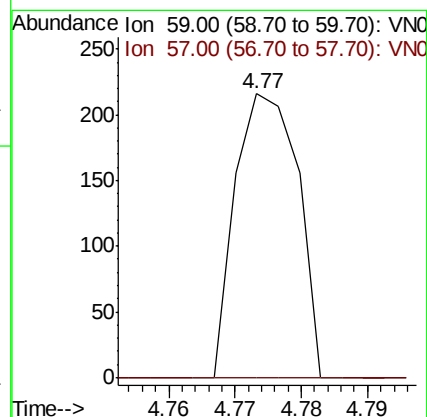
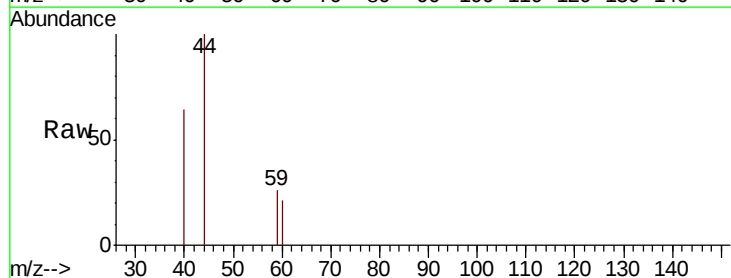
Acq: 26 Sep 2018 2:08

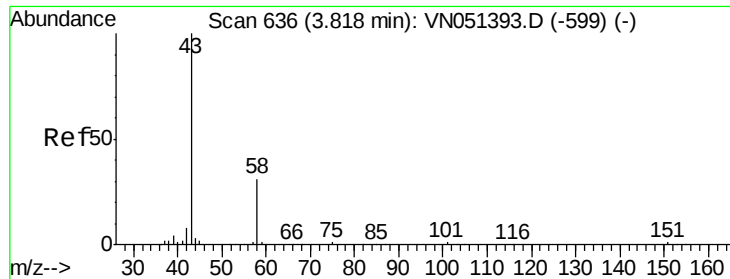
Tgt Ion: 59 Resp: 142

Ion Ratio Lower Upper

59 100

57 0.0 6.2 9.2#





#16

Acetone

Concen: Below Cal

RT: 3.83 min Scan# 639

Delta R.T. 0.01 min

Lab File: VN051509.D

Acq: 26 Sep 2018 2:08

Instrument :

MSVOA_N

ClientSampleId :

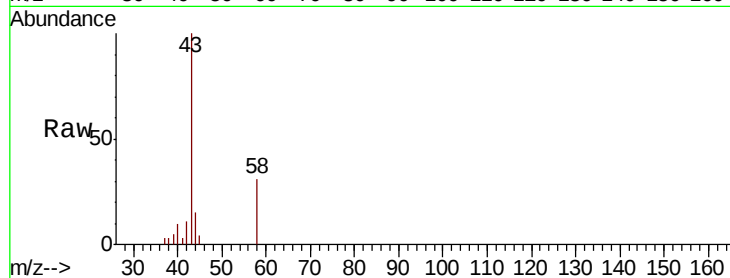
PB113167ZHE#03

Tot Ion: 43 Resp: 22229

Ion Ratio Lower Upper

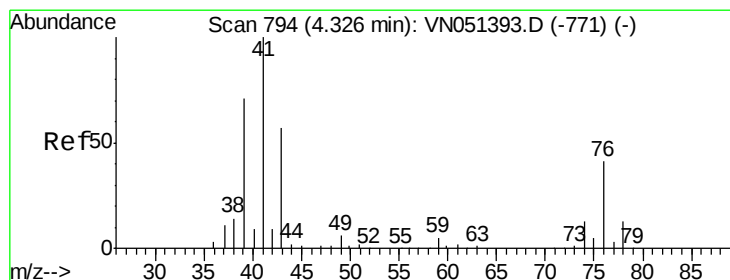
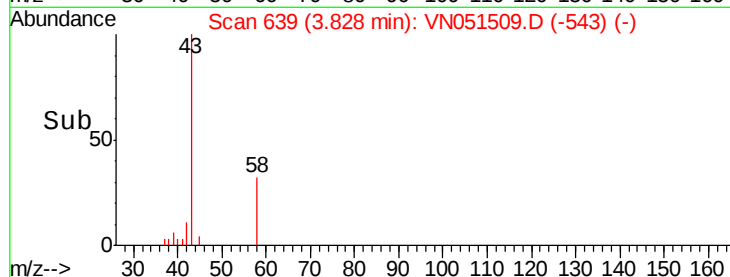
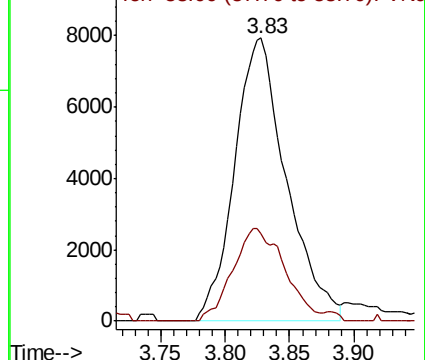
43 100

58 30.9 25.0 37.4



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: 2.240 ug/l

RT: 4.33 min Scan# 796

Delta R.T. 0.01 min

Lab File: VN051509.D

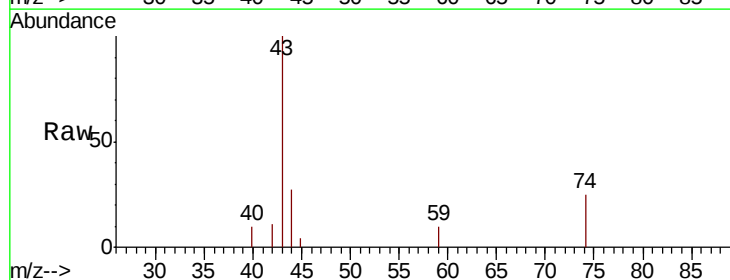
Acq: 26 Sep 2018 2:08

Tgt Ion: 43 Resp: 13676

Ion Ratio Lower Upper

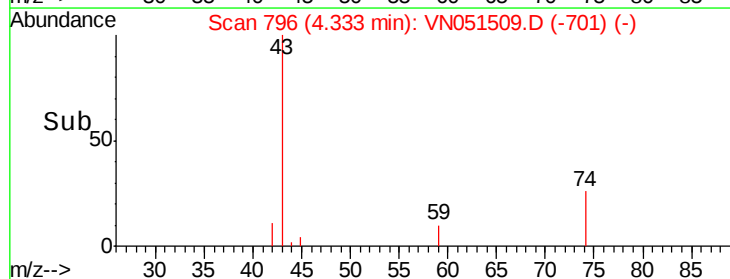
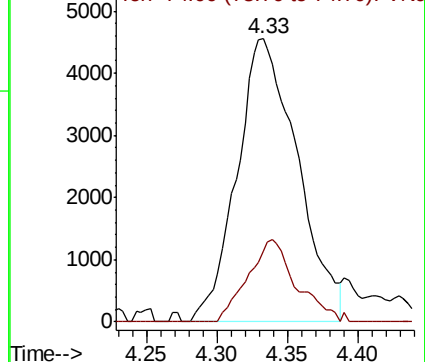
43 100

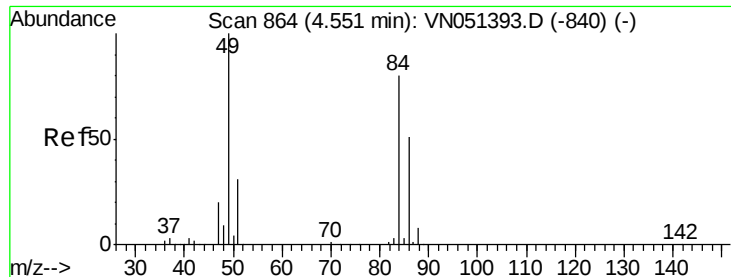
74 23.4 18.8 28.2



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

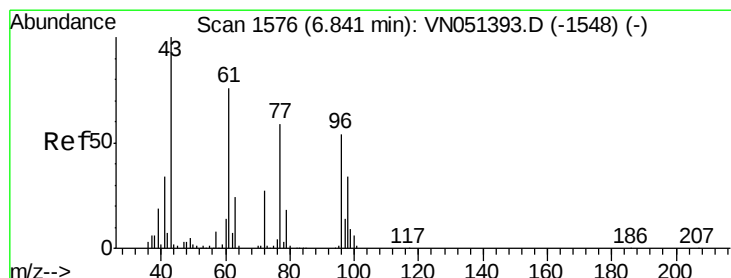
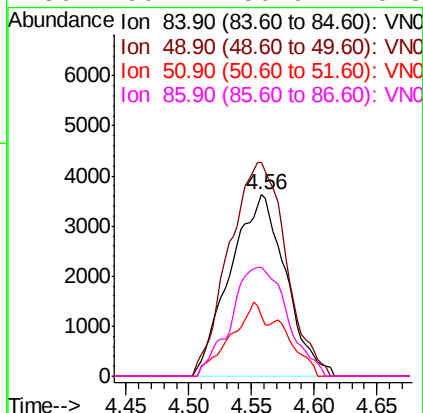
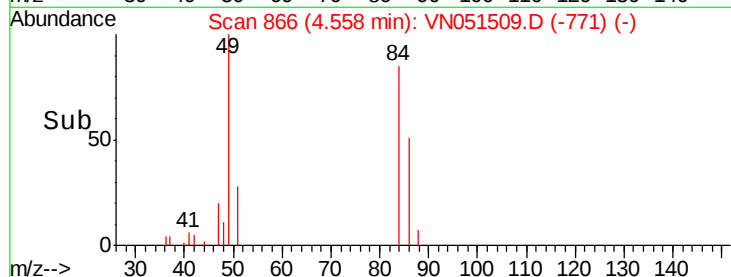
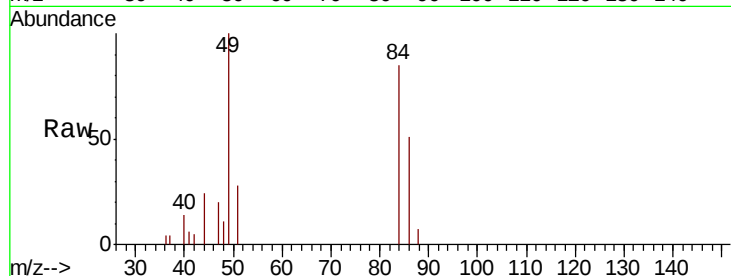




#20
Methvlene Chloride
Concen: 1.407 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.01 min
Lab File: VN051509.D
Acq: 26 Sep 2018 2:08

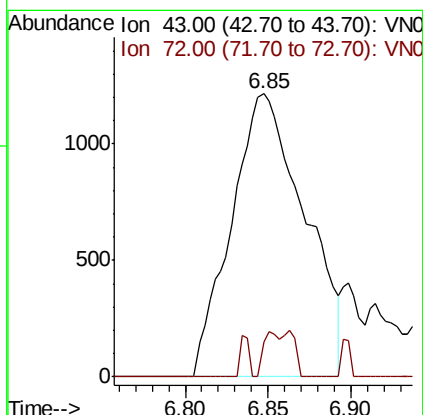
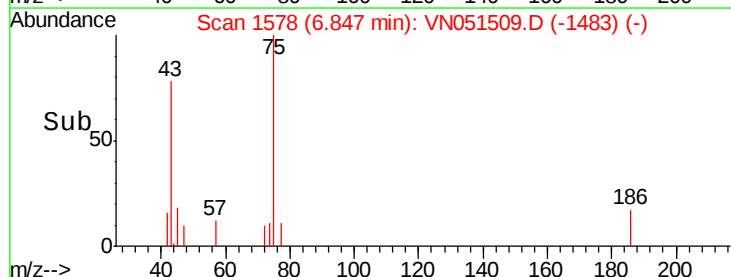
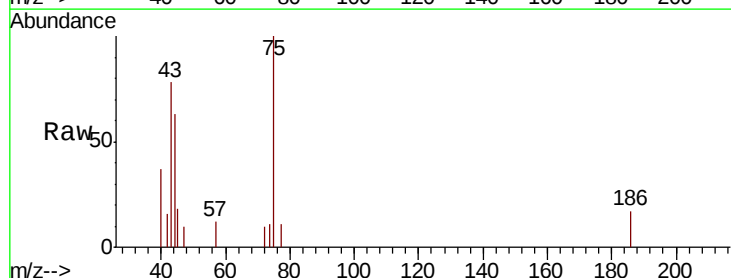
Instrument :
MSVOA_N
ClientSampleId :
PB113167ZHE#03

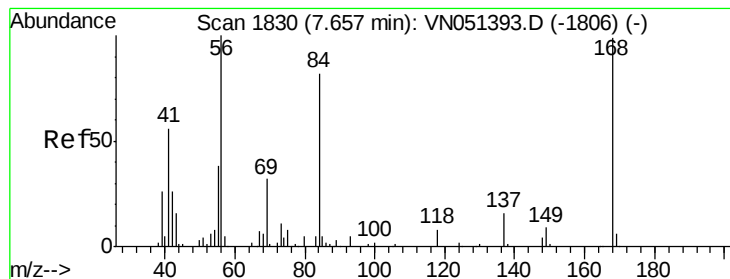
Tot Ion:	84	Resp:	11163
Ion	Ratio	Lower	Upper
84	100		
49	117.5	99.9	149.9
51	33.0	31.4	47.2
86	59.7	50.9	76.3



#25
2-Butanone
Concen: 1.366 ug/l
RT: 6.85 min Scan# 1578
Delta R.T. 0.01 min
Lab File: VN051509.D
Acq: 26 Sep 2018 2:08

Tgt Ion:	43	Resp:	3749
Ion	Ratio	Lower	Upper
43	100		
72	12.5	21.8	32.6#





#31

Cyclohexane

Concen: 0.985 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.01 min

Lab File: VN051509.D

Acq: 26 Sep 2018 2:08

Instrument :

MSVOA_N

ClientSampleId :

PB113167ZHE#03

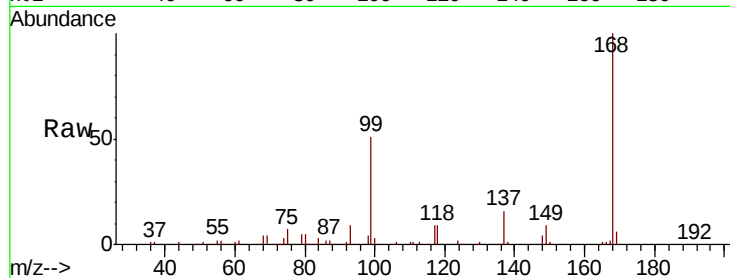
Tot Ion: 56 Resp: 12430

Ion Ratio Lower Upper

56 100

69 207.2 25.8 38.6#

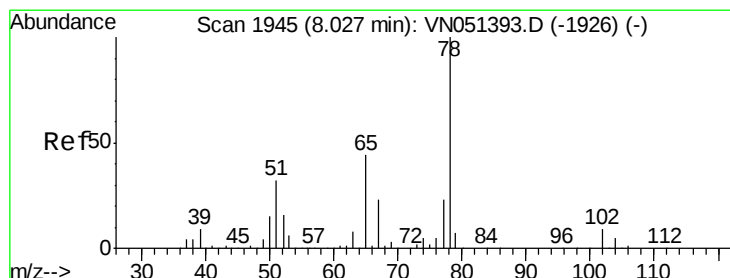
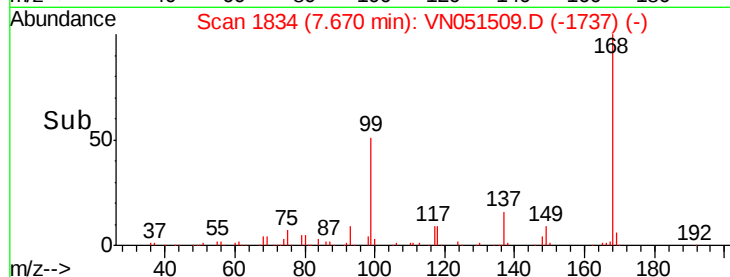
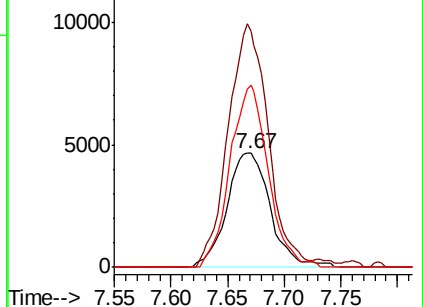
84 160.1 66.0 99.0#



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: 55.544 ug/l

RT: 8.03 min Scan# 1946

Delta R.T. 0.00 min

Lab File: VN051509.D

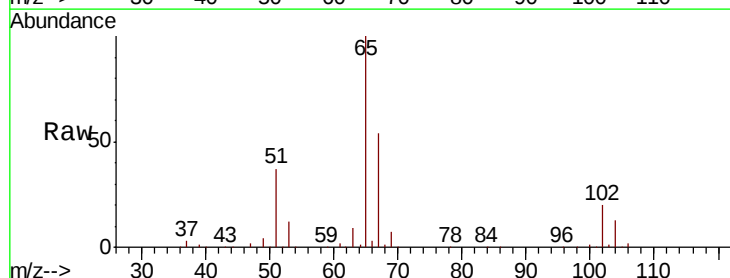
Acq: 26 Sep 2018 2:08

Tgt Ion: 65 Resp: 445235

Ion Ratio Lower Upper

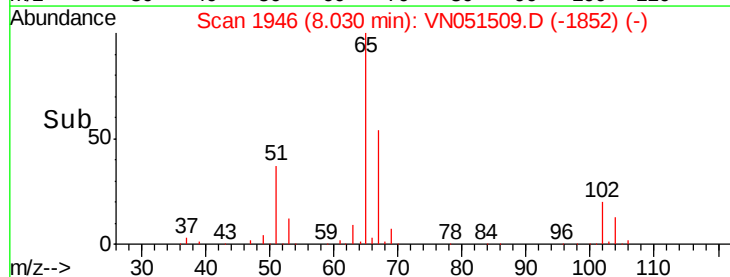
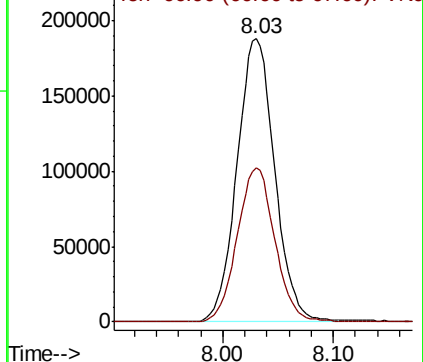
65 100

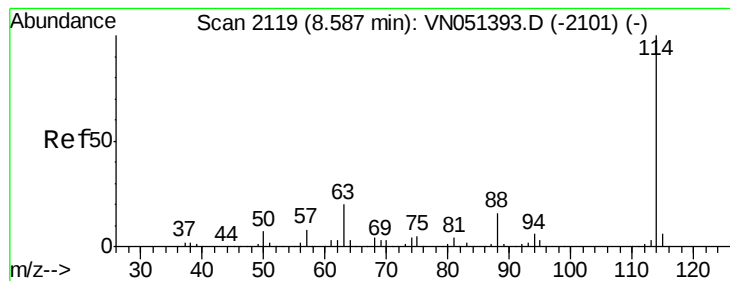
67 54.1 0.0 107.8



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. -0.00 min

Lab File: VN051509.D

Acq: 26 Sep 2018 2:08

Instrument :

MSVOA_N

ClientSampleId :

PB113167ZHE#03

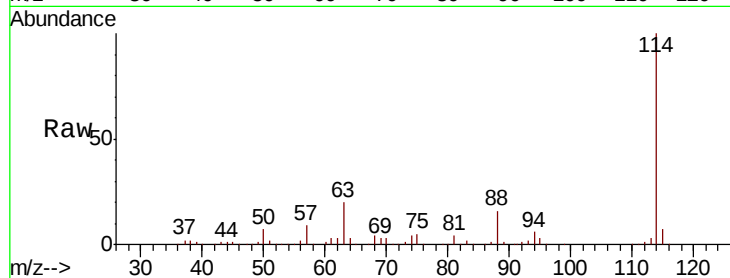
Tot Ion:114 Resp: 1025098

Ion Ratio Lower Upper

114 100

63 20.5 0.0 40.2

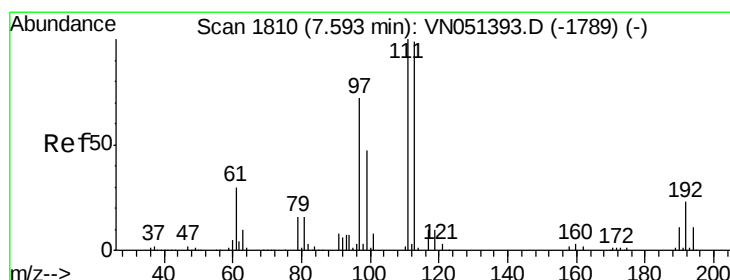
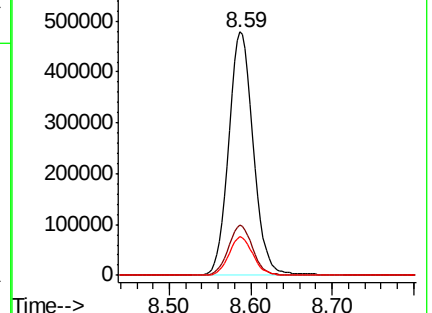
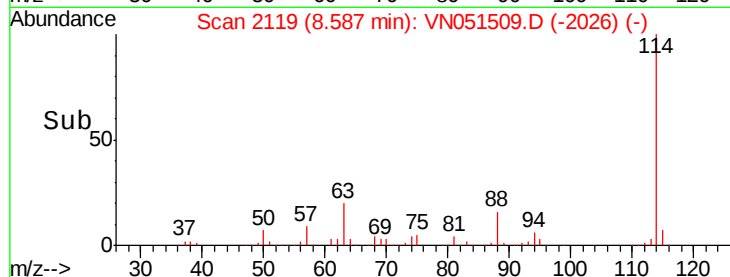
88 15.8 0.0 31.4



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: 47.735 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. -0.00 min

Lab File: VN051509.D

Acq: 26 Sep 2018 2:08

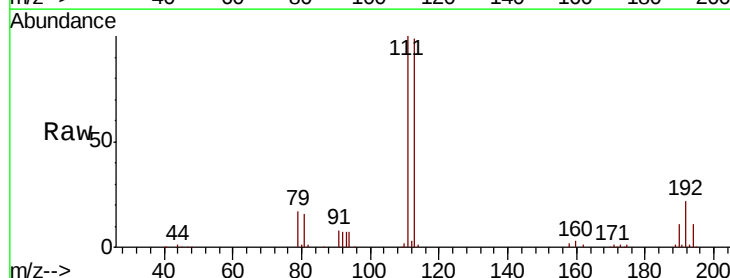
Tgt Ion:113 Resp: 391297

Ion Ratio Lower Upper

113 100

111 102.2 82.6 123.8

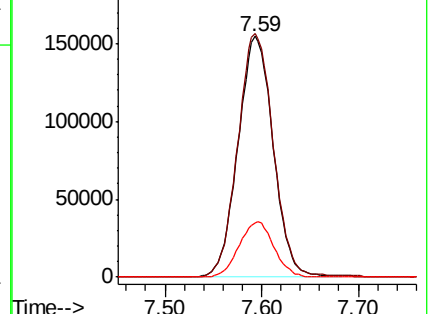
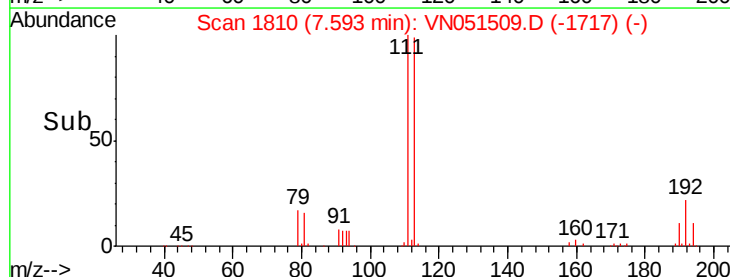
192 22.7 18.0 27.0

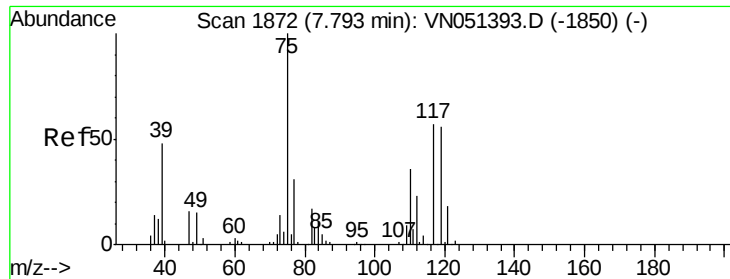


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

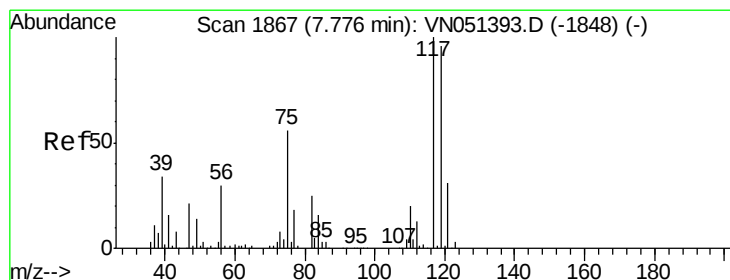
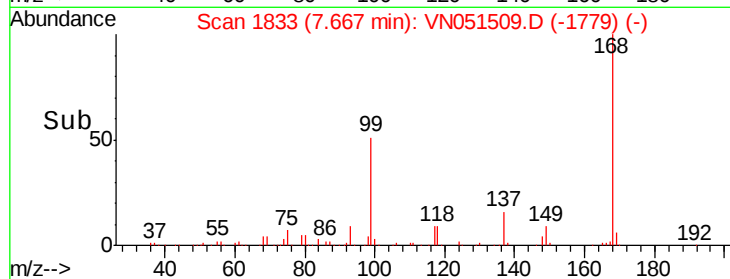
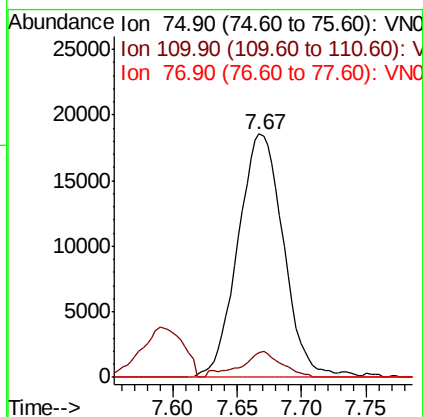
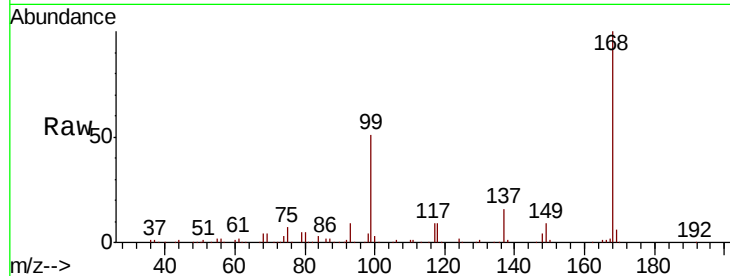




#36
 1,1-Dichloropropene
 Concen: 3.830 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN051509.D
 Acq: 26 Sep 2018 2:08

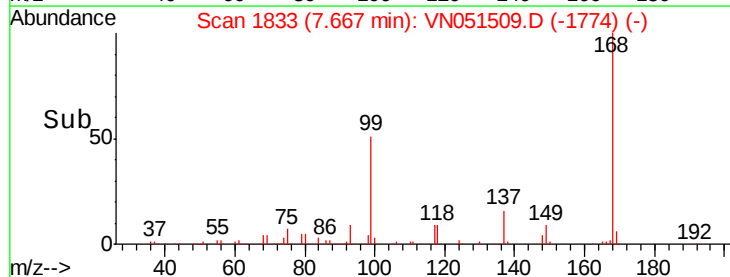
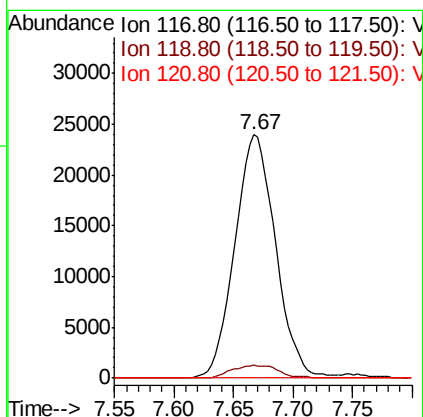
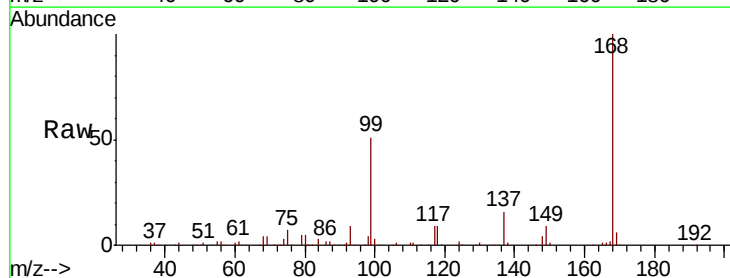
Instrument :
 MSVOA_N
 ClientSampleId :
 PB113167ZHE#03

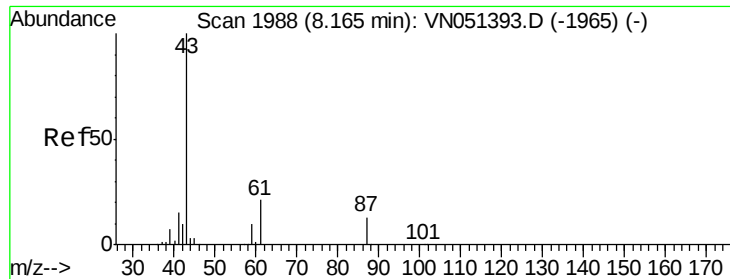
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.7	18.1	54.3#
77	0.0	25.6	38.4#



#38
 Carbon Tetrachloride
 Concen: 4.583 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.11 min
 Lab File: VN051509.D
 Acq: 26 Sep 2018 2:08

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.2	76.9	115.3#
121	0.0	24.6	37.0#



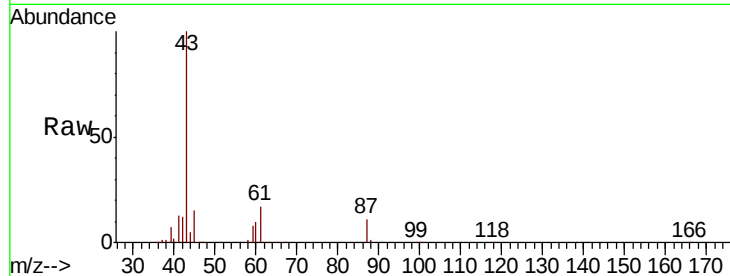


#43

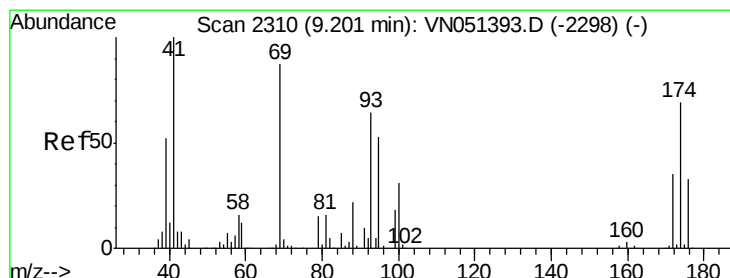
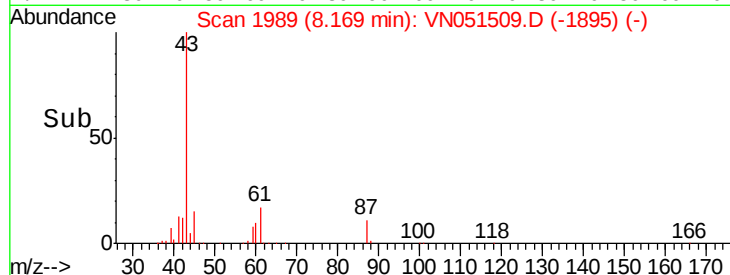
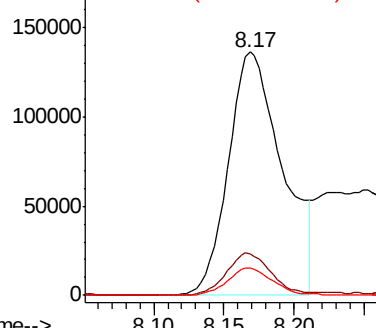
Isopropyl Acetate
 Concen: 29.473 ug/l
 RT: 8.17 min Scan# 1989
 Delta R.T. 0.00 min
 Lab File: VN051509.D
 Acq: 26 Sep 2018 2:08

Instrument :
 MSVOA_N
 ClientSampleId :
 PB113167ZHE#03

Tot Ion: 43 Resp: 363749
 Ion Ratio Lower Upper
 43 100
 61 14.5 16.8 25.2#
 87 9.4 10.7 16.1#



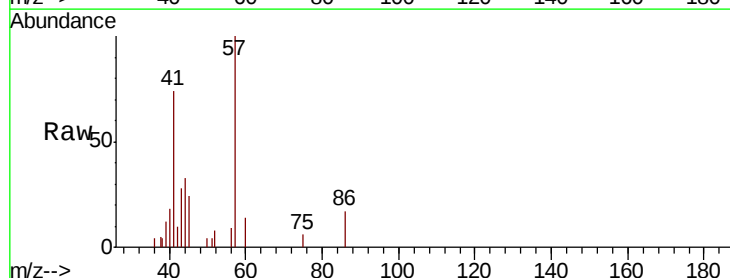
Abundance Ion 43.00 (42.70 to 43.70): VNC
 Ion 61.00 (60.70 to 61.70): VNC
 Ion 87.00 (86.70 to 87.70): VNC



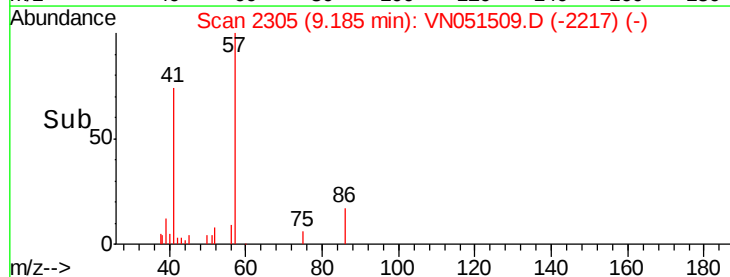
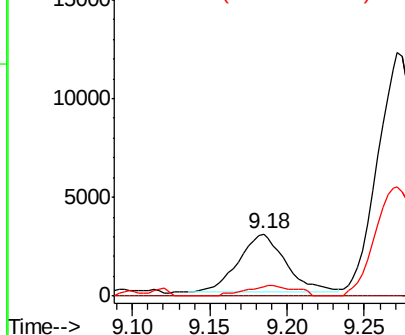
#48

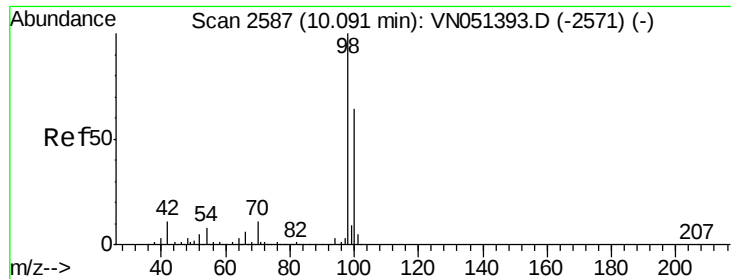
Methyl methacrylate
 Concen: 1.027 ug/l
 RT: 9.18 min Scan# 2305
 Delta R.T. -0.02 min
 Lab File: VN051509.D
 Acq: 26 Sep 2018 2:08

Tgt Ion: 41 Resp: 6322
 Ion Ratio Lower Upper
 41 100
 69 0.0 70.4 105.6#
 39 19.3 43.8 65.8#



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





#50

Toluene-d8

Concen: 45.914 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN051509.D

Acq: 26 Sep 2018 2:08

Instrument :

MSVOA_N

ClientSampleId :

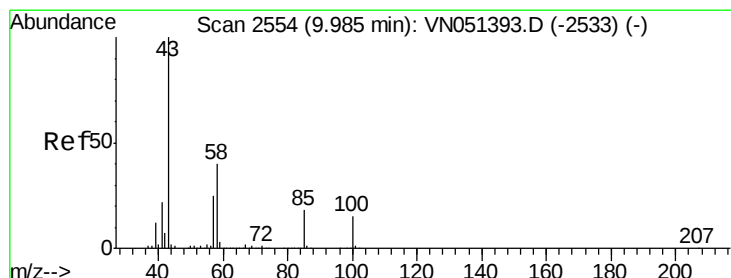
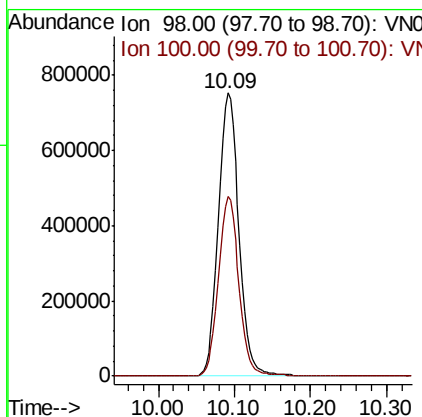
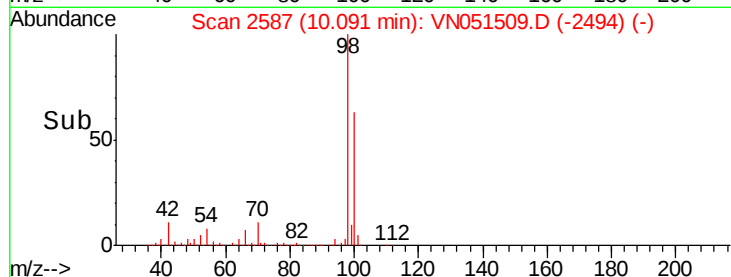
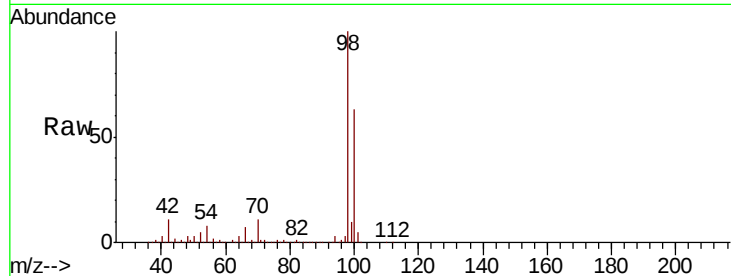
PB113167ZHE#03

Tot Ion: 98 Resp: 1417268

Ion Ratio Lower Upper

98 100

100 63.0 50.6 75.8



#51

4-Methyl-2-Pentanone

Concen: 0.284 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. -0.00 min

Lab File: VN051509.D

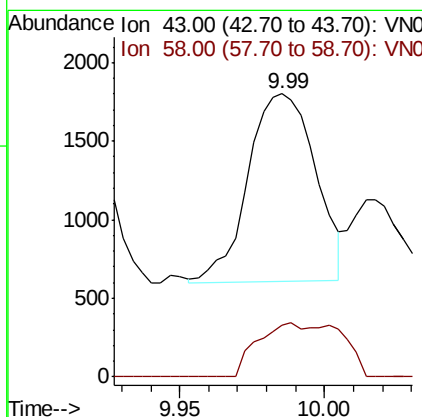
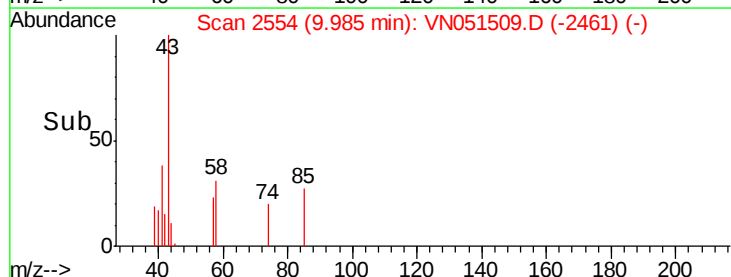
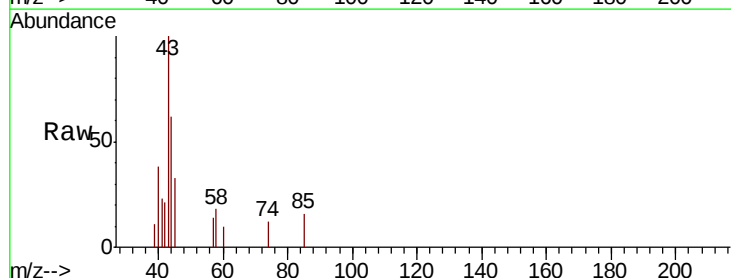
Acq: 26 Sep 2018 2:08

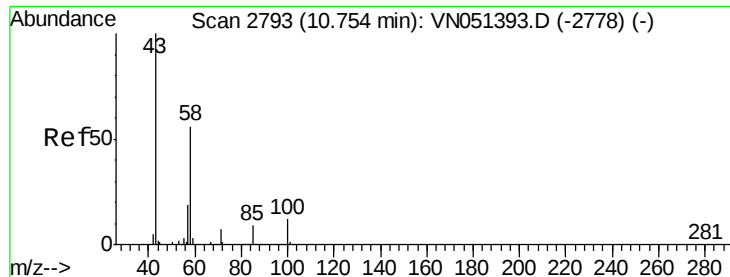
Tgt Ion: 43 Resp: 1927

Ion Ratio Lower Upper

43 100

58 22.3 31.5 47.3#

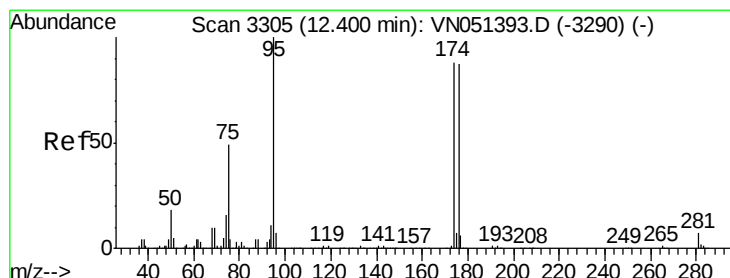
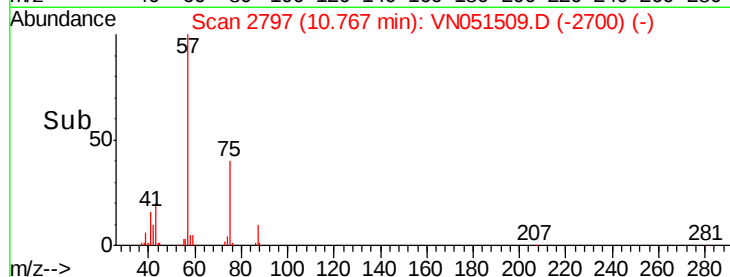
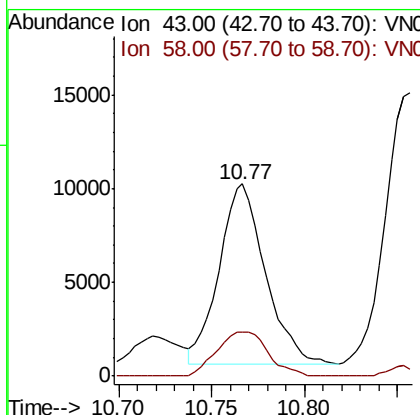
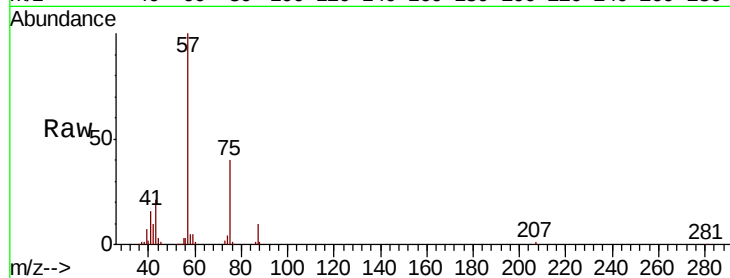




#59
2-Hexanone
Concen: 3.796 ug/l
RT: 10.77 min Scan# 2797
Delta R.T. 0.01 min
Lab File: VN051509.D
Acq: 26 Sep 2018 2:08

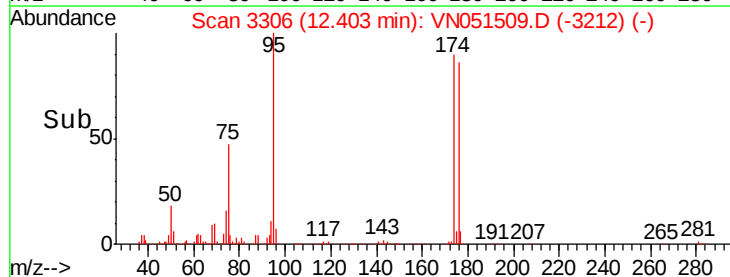
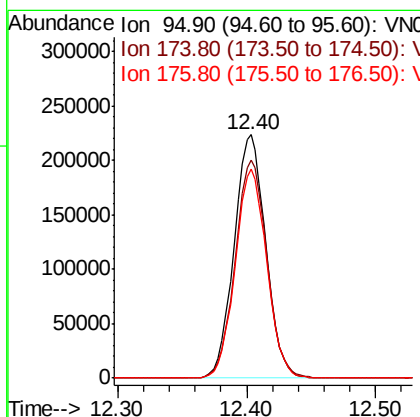
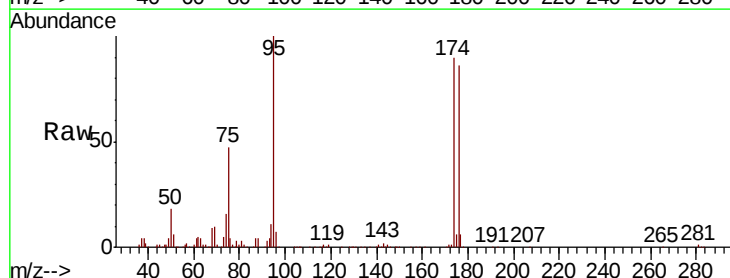
Instrument :
MSVOA_N
ClientSampleId :
PB113167ZHE#03

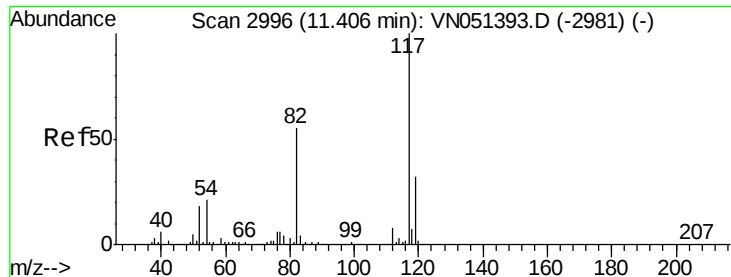
Tot Ion: 43 Resp: 16701
Ion Ratio Lower Upper
43 100
58 27.1 27.7 83.0#



#62
4-Bromofluorobenzene
Concen: 38.062 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN051509.D
Acq: 26 Sep 2018 2:08

Tgt Ion: 95 Resp: 380074
Ion Ratio Lower Upper
95 100
174 90.1 0.0 181.6
176 85.7 0.0 176.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN051509.D

Acq: 26 Sep 2018 2:08

Instrument :

MSVOA_N

ClientSampleId :

PB113167ZHE#03

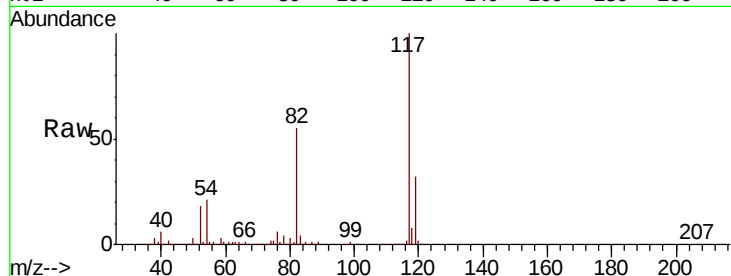
Tot Ion:117 Resp: 838615

Ion Ratio Lower Upper

117 100

82 55.0 44.2 66.2

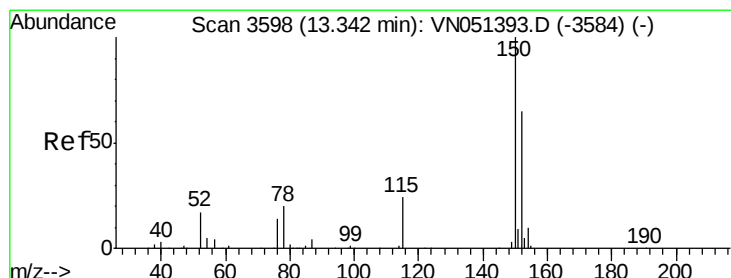
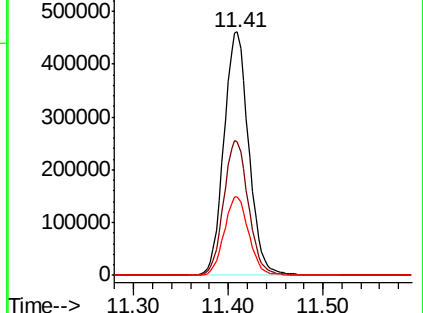
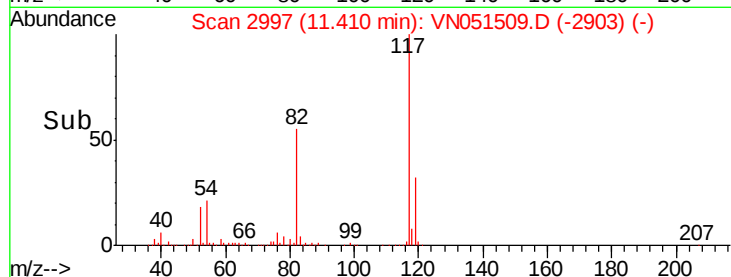
119 32.3 25.9 38.9



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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN051509.D

Acq: 26 Sep 2018 2:08

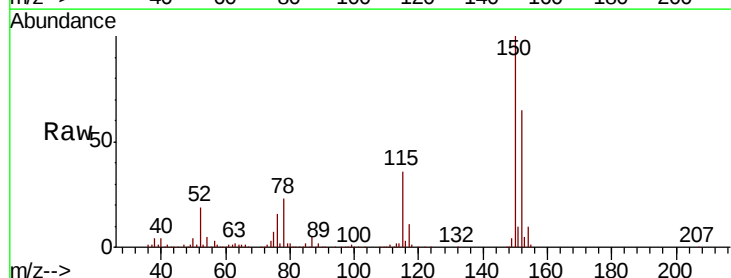
Tgt Ion:152 Resp: 303807

Ion Ratio Lower Upper

152 100

115 55.3 28.3 84.9

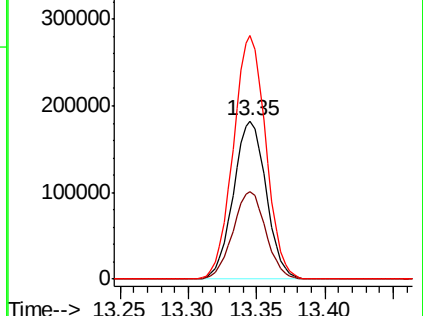
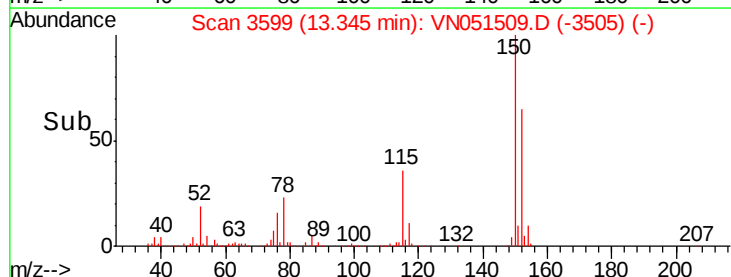
150 153.0 0.0 353.6

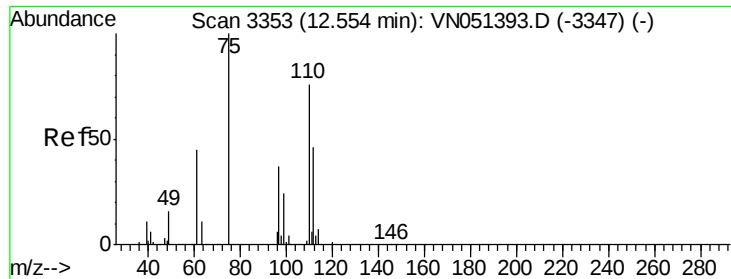


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

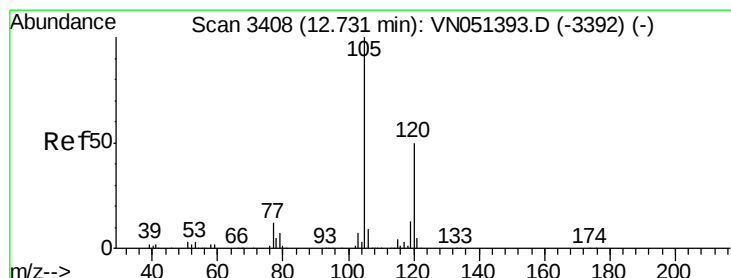
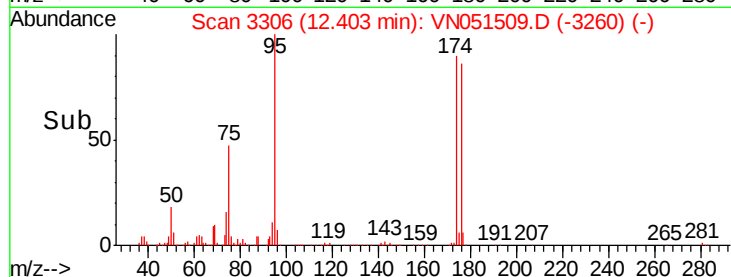
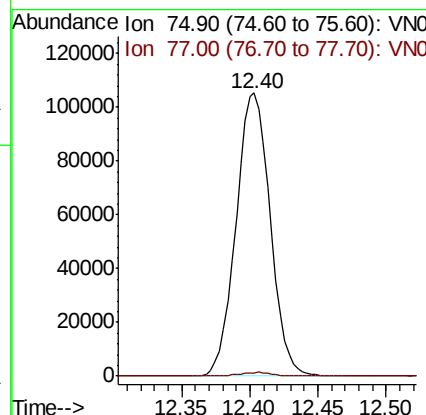
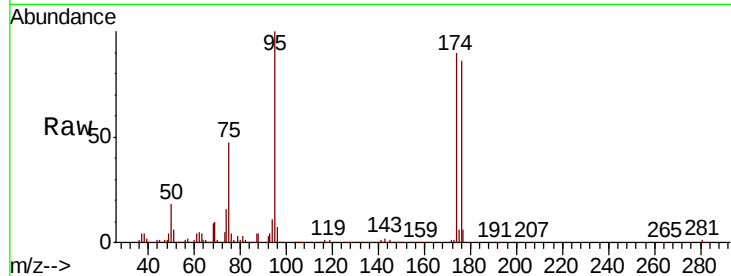




#76
 1,2,3-Trichloropropane
 Concen: 36.333 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. -0.15 min
 Lab File: VN051509.D
 Acq: 26 Sep 2018 2:08

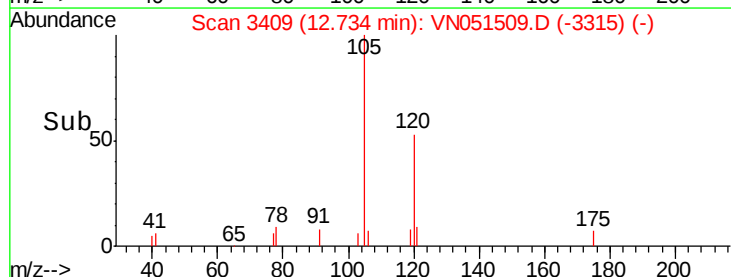
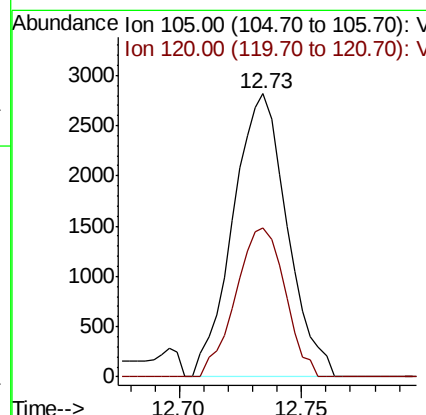
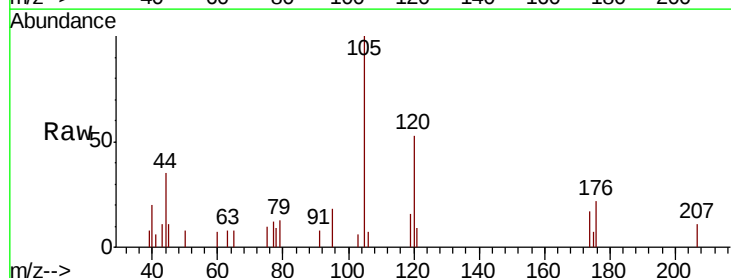
Instrument :
 MSVOA_N
 ClientSampleId :
 PB113167ZHE#03

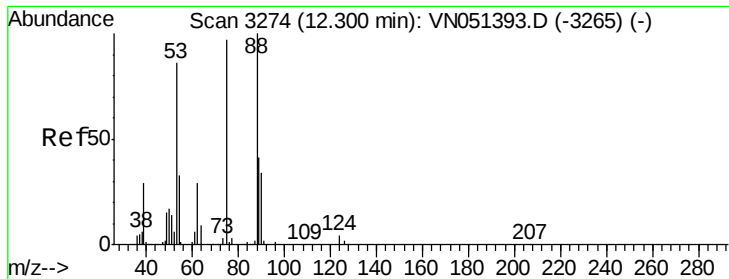
Tot Ion: 75 Resp: 183240
 Ion Ratio Lower Upper
 75 100
 77 1.3 0.0 0.0#



#80
 1,3,5-Trimethylbenzene
 Concen: 0.207 ug/l
 RT: 12.73 min Scan# 3409
 Delta R.T. 0.00 min
 Lab File: VN051509.D
 Acq: 26 Sep 2018 2:08

Tgt Ion: 105 Resp: 4334
 Ion Ratio Lower Upper
 105 100
 120 48.0 24.8 74.4





#81

trans-1,4-Dichloro-2-butene

Concen: 111.721 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN051509.D

Acq: 26 Sep 2018 2:08

Instrument :

MSVOA_N

ClientSampleId :

PB113167ZHE#03

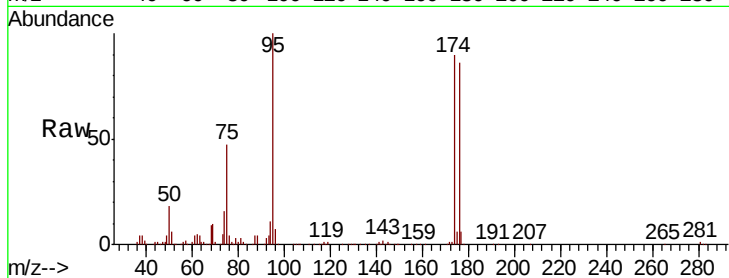
Tot Ion: 75 Resp: 183240

Ion Ratio Lower Upper

75 100

53 0.2 73.9 110.9#

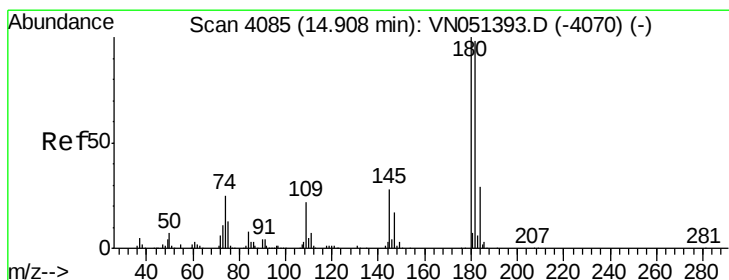
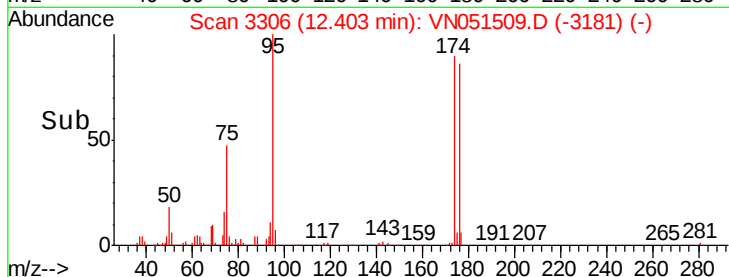
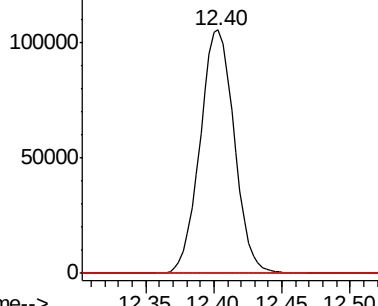
89 0.0 36.7 55.1#



Abundance Ion 74.90 (74.60 to 75.60): VN051509.D (-3306) (-)

Ion 53.00 (52.70 to 53.70): VN051509.D (-3306) (-)

Ion 88.90 (88.60 to 89.60): VN051509.D (-3306) (-)



#93

1,2,4-Trichlorobenzene

Concen: 5.987 ug/l

RT: 14.90 min Scan# 4084

Delta R.T. -0.00 min

Lab File: VN051509.D

Acq: 26 Sep 2018 2:08

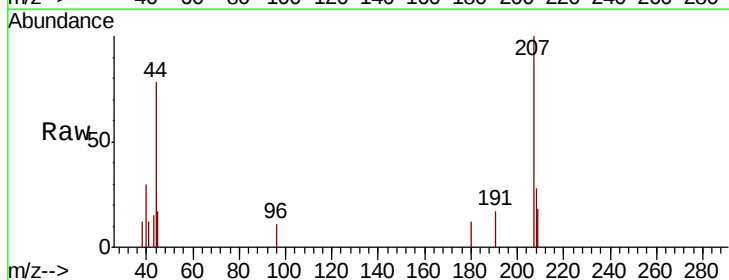
Tgt Ion: 180 Resp: 33

Ion Ratio Lower Upper

180 100

182 0.0 48.5 145.6#

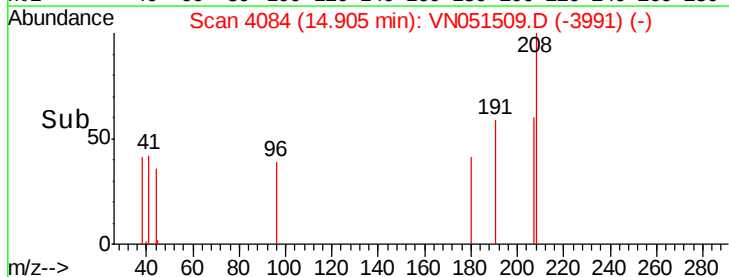
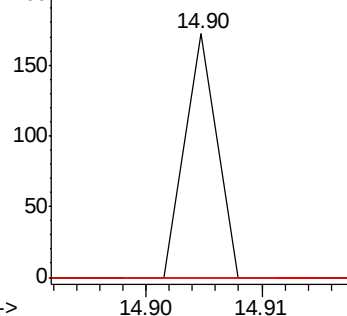
145 0.0 14.1 42.4#

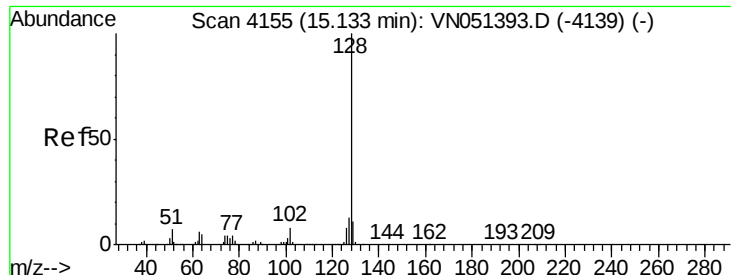


Abundance Ion 179.80 (179.50 to 180.50): VN051509.D (-4084) (-)

Ion 181.80 (181.50 to 182.50): VN051509.D (-4084) (-)

Ion 144.80 (144.50 to 145.50): VN051509.D (-4084) (-)





#95

Naphthalene

Concen: 8.116 ug/l

RT: 15.13 min Scan# 4153

Delta R.T. -0.01 min

Lab File: VN051509.D

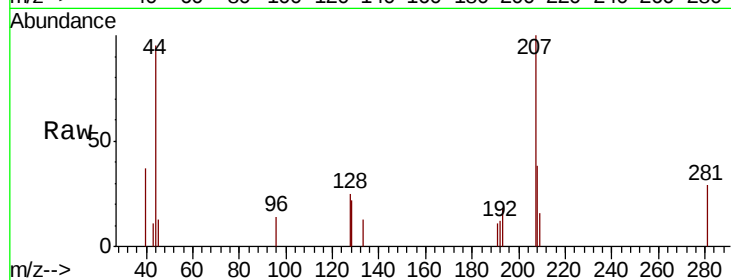
Acq: 26 Sep 2018 2:08

Instrument :

MSVOA_N

ClientSampleId :

PB113167ZHE#03



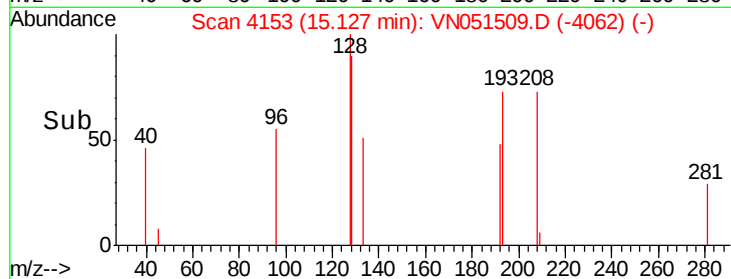
Tot Ion:128 Resp: 964

Ion Ratio Lower Upper

128 100

127 0.0 10.5 15.7#

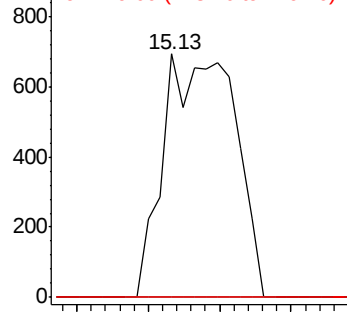
129 0.0 8.6 12.8#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



Time-->