

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092618\
 Data File : VN051519.D
 Acq On : 26 Sep 2018 7:03
 Operator : MD\SY
 Sample : PB113167ZHE#08
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB113167ZHE#08

Quant Time: Sep 26 08:17:36 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	641624	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1011350	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	873387	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	311402	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	453426	56.41	ug/l	0.00
Spiked Amount	50.000		Recovery	=	112.82%	
35) Dibromofluoromethane	7.59	113	394240	48.75	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.50%	
50) Toluene-d8	10.09	98	1424236	46.77	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.54%	
62) 4-Bromofluorobenzene	12.40	95	388066	39.39	ug/l	0.00
Spiked Amount	50.000		Recovery	=	78.78%	

Target Compounds

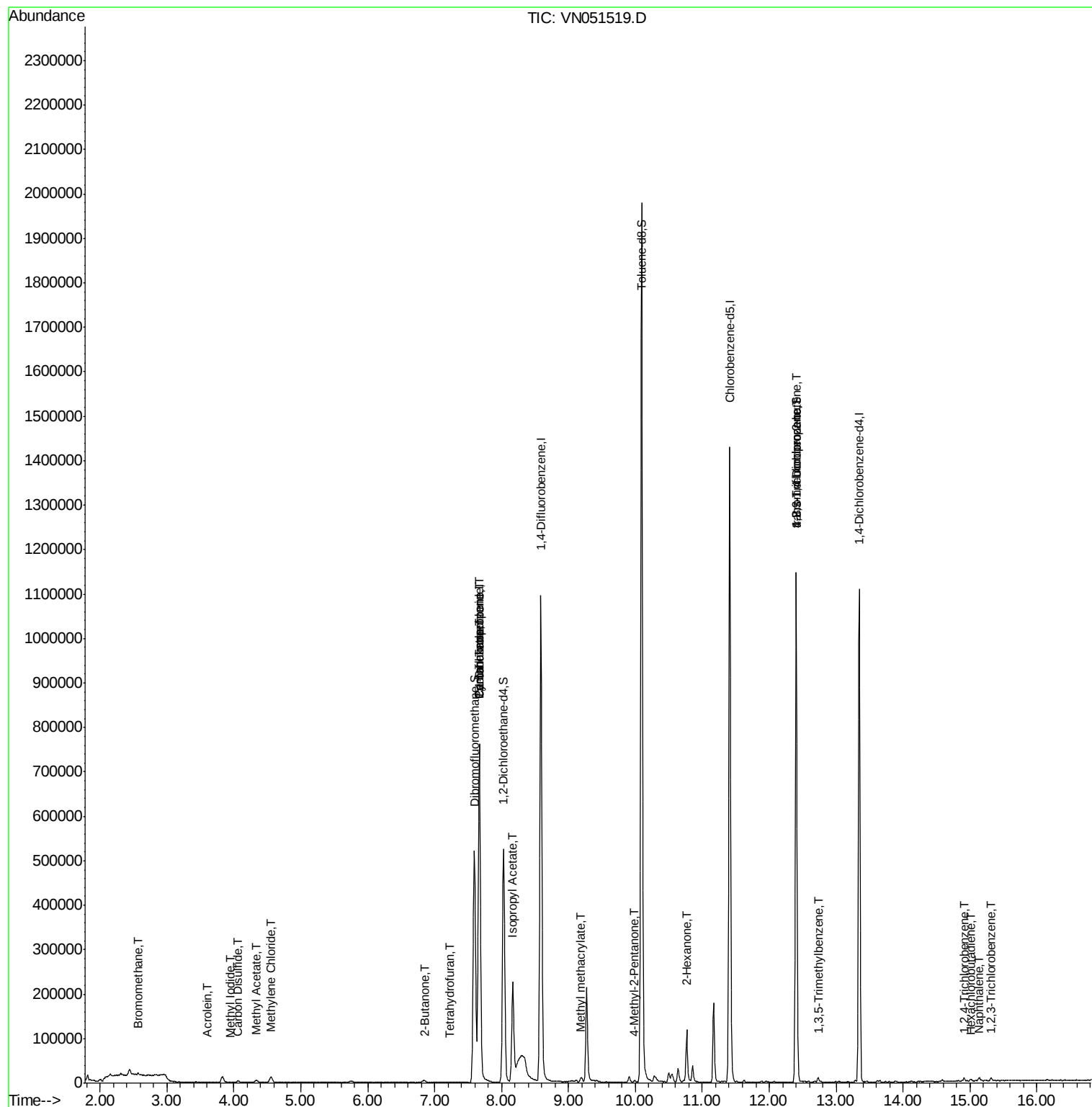
					Qvalue	
5) Bromomethane	2.57	94	2588	0.469	ug/l #	68
10) Methyl Iodide	3.95	142	728	0.347	ug/l #	47
13) Acrolein	3.60	56	103	0.229	ug/l	90
16) Acetone	3.83	43	22450	Below Cal		91
17) Carbon Disulfide	4.06	76	5134	0.245	ug/l	96
18) Methyl Acetate	4.33	43	11405	1.863	ug/l	93
20) Methylene Chloride	4.56	84	8384	1.054	ug/l #	85
25) 2-Butanone	6.86	43	4267	1.551	ug/l #	80
29) Tetrahydrofuran	7.21	42	473	0.271	ug/l #	50
31) Cyclohexane	7.67	56	12672	1.001	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	45577	3.892	ug/l #	48
38) Carbon Tetrachloride	7.67	117	59071	4.822	ug/l #	16
43) Isopropyl Acetate	8.17	43	268829	22.078	ug/l	97
48) Methyl methacrylate	9.19	41	6881	1.133	ug/l #	18
51) 4-Methyl-2-Pentanone	9.99	43	2636	0.394	ug/l	93
59) 2-Hexanone	10.77	43	17220	3.967	ug/l #	59
76) 1,2,3-Trichloropropane	12.40	75	188051	36.377	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	5048	0.236	ug/l	95
81) trans-1,4-Dichloro-2-buten	12.40	75	188051	111.857	ug/l #	12
93) 1,2,4-Trichlorobenzene	14.91	180	2814	6.393	ug/l	94
94) Hexachlorobutadiene	15.01	225	926	0.219	ug/l	93
95) Naphthalene	15.14	128	6010	8.480	ug/l #	90
96) 1,2,3-Trichlorobenzene	15.32	180	2758	0.515	ug/l	96

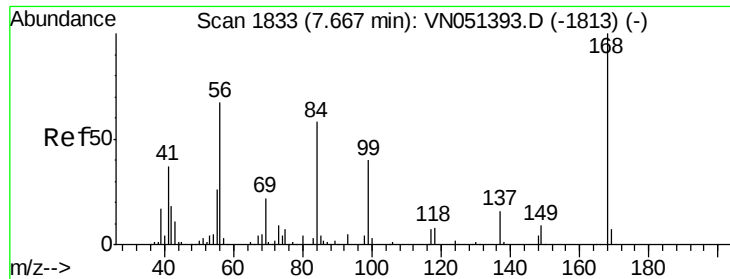
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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# 1833

Delta R.T. -0.00 min

Lab File: VN051519.D

Acq: 26 Sep 2018 7:03

Instrument :

MSVOA_N

ClientSampleId :

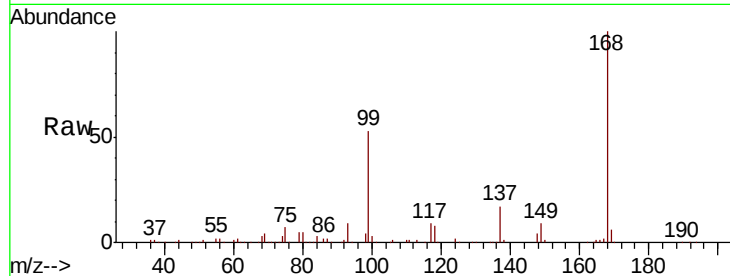
PB113167ZHE#08

Tot Ion:168 Resp: 641624

Ion Ratio Lower Upper

168 100

99 53.2 40.2 60.2



Abundance Ion 167.90 (167.60 to 168.60): VN051519.D

Ion 98.90 (98.60 to 99.60): VN051519.D

7.67

250000

200000

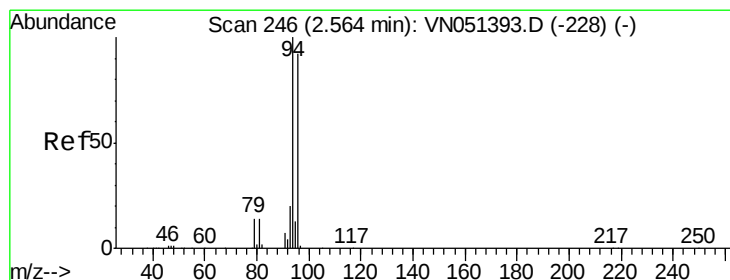
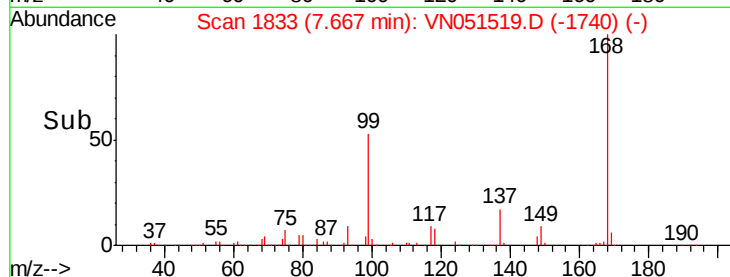
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: 0.469 ug/l

RT: 2.57 min Scan# 247

Delta R.T. 0.00 min

Lab File: VN051519.D

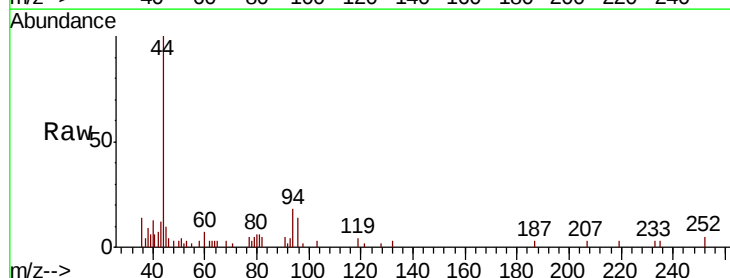
Acq: 26 Sep 2018 7:03

Tgt Ion: 94 Resp: 2588

Ion Ratio Lower Upper

94 100

96 61.8 73.6 110.4#



Abundance Ion 93.90 (93.60 to 94.60): VN051519.D

Ion 95.90 (95.60 to 96.60): VN051519.D

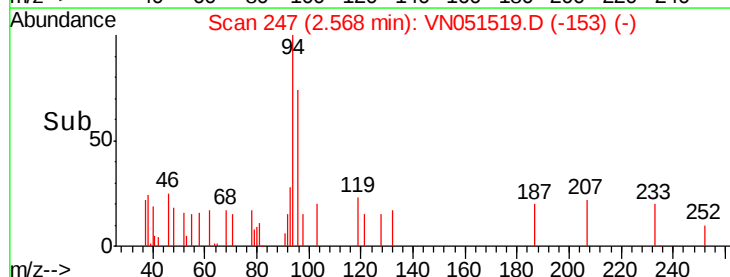
2.57

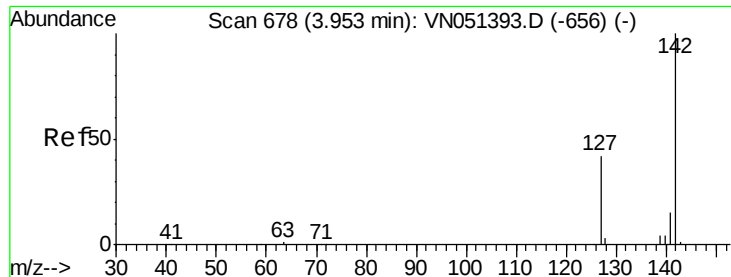
1000

500

0

Time-->

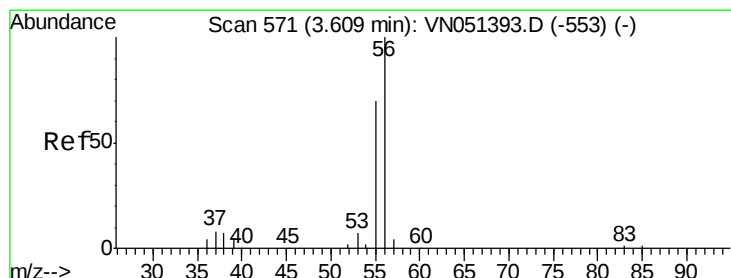
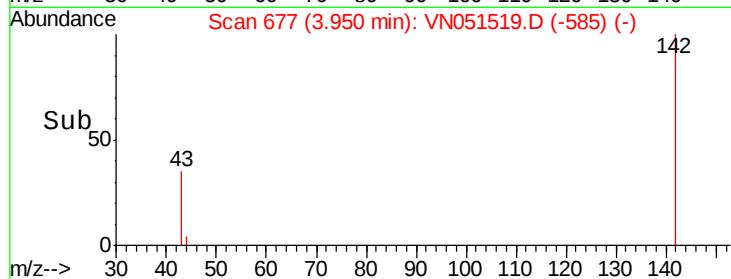
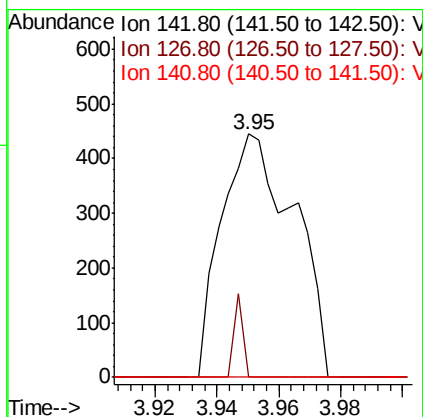
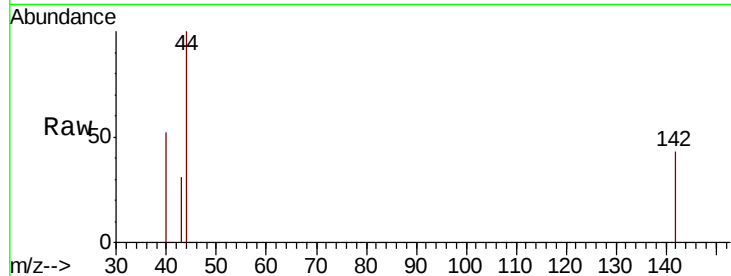




#10
Methvl Iodide
Concen: 0.347 ug/l
RT: 3.95 min Scan# 677
Delta R.T. -0.00 min
Lab File: VN051519.D
Acq: 26 Sep 2018 7:03

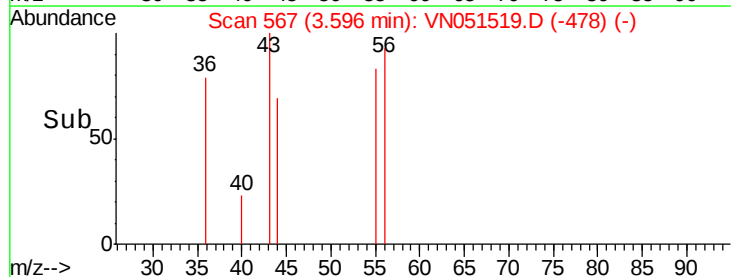
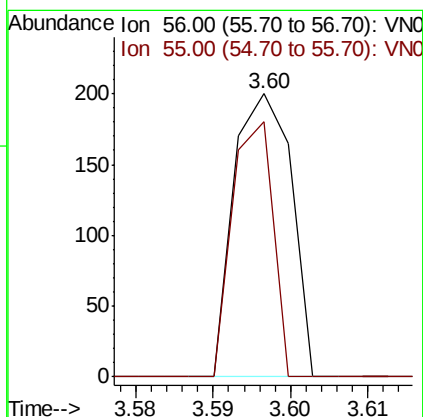
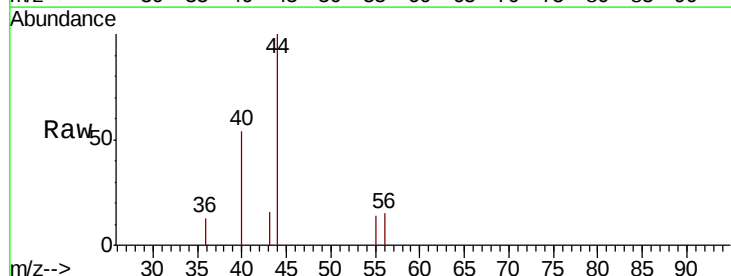
Instrument :
MSVOA_N
ClientSampleId :
PB113167ZHE#08

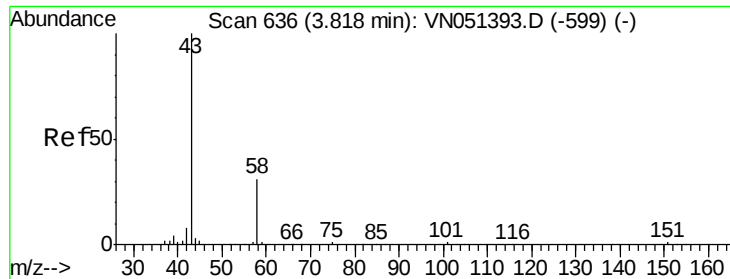
Tot Ion:142 Resp: 728
Ion Ratio Lower Upper
142 100
127 4.1 33.2 49.8#
141 0.0 11.5 17.3#



#13
Acrolein
Concen: 0.229 ug/l
RT: 3.60 min Scan# 567
Delta R.T. -0.01 min
Lab File: VN051519.D
Acq: 26 Sep 2018 7:03

Tgt Ion: 56 Resp: 103
Ion Ratio Lower Upper
56 100
55 64.1 57.8 86.8





#16

Acetone

Concen: Below Cal

RT: 3.83 min Scan# 639

Delta R.T. 0.01 min

Lab File: VN051519.D

Acq: 26 Sep 2018 7:03

Instrument :

MSVOA_N

ClientSampleId :

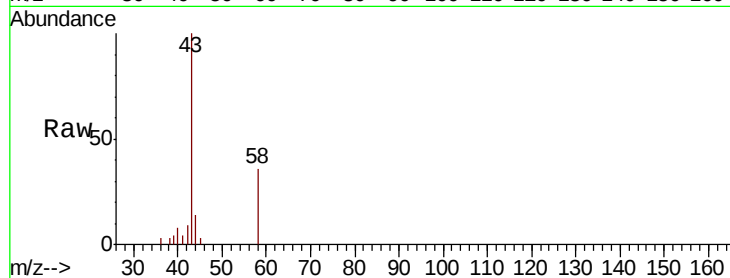
PB113167ZHE#08

Tot Ion: 43 Resp: 22450

Ion Ratio Lower Upper

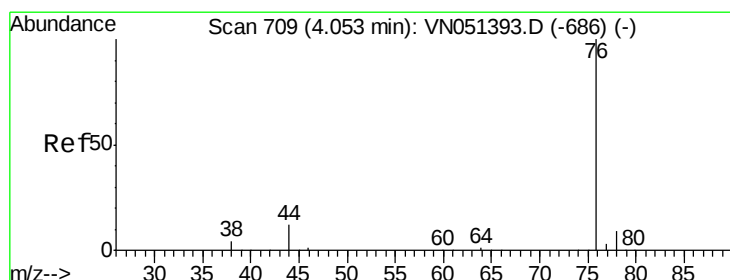
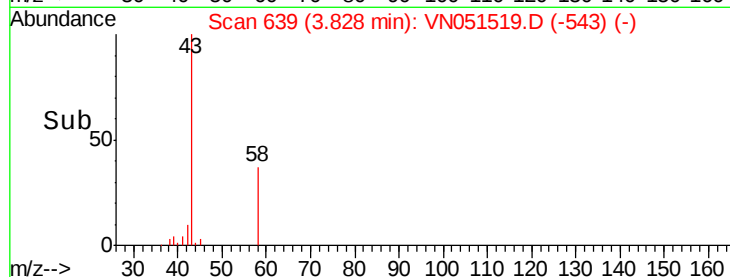
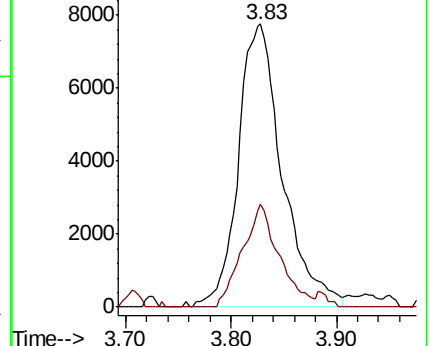
43 100

58 36.3 25.0 37.4



Abundance Ion 43.00 (42.70 to 43.70): VN051393.D (-599) (-)

Ion 58.00 (57.70 to 58.70): VN051393.D (-599) (-)



#17

Carbon Disulfide

Concen: 0.245 ug/l

RT: 4.06 min Scan# 710

Delta R.T. 0.00 min

Lab File: VN051519.D

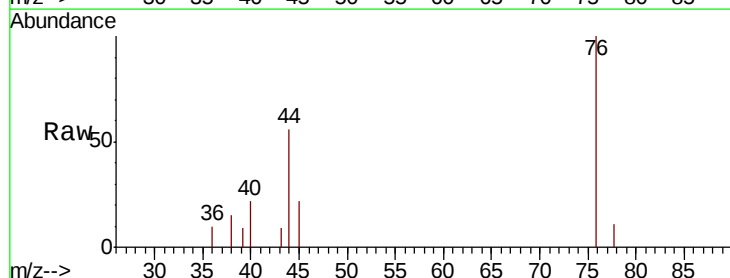
Acq: 26 Sep 2018 7:03

Tgt Ion: 76 Resp: 5134

Ion Ratio Lower Upper

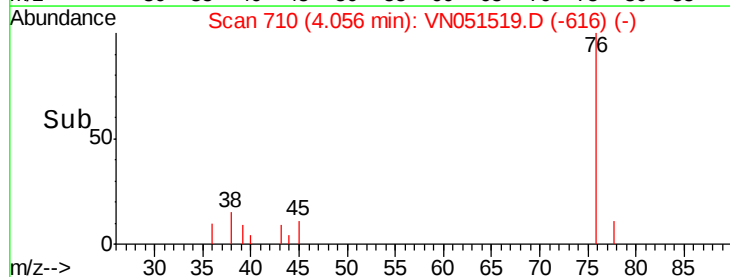
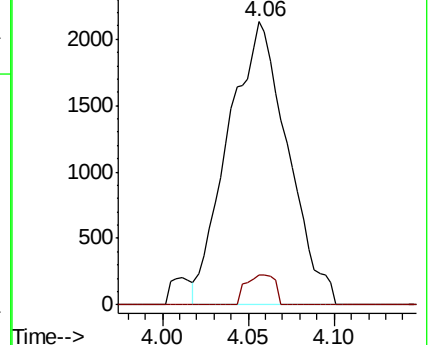
76 100

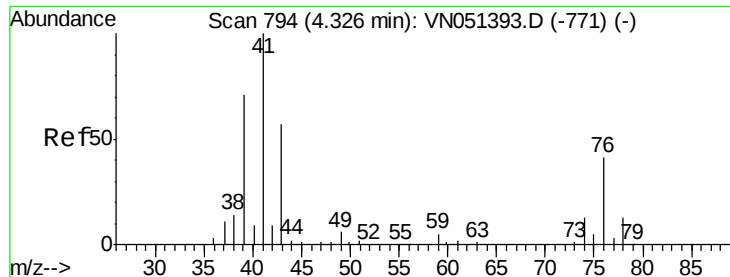
78 10.6 7.3 10.9



Abundance Ion 75.90 (75.60 to 76.60): VN051393.D (-686) (-)

Ion 77.90 (77.60 to 78.60): VN051393.D (-686) (-)

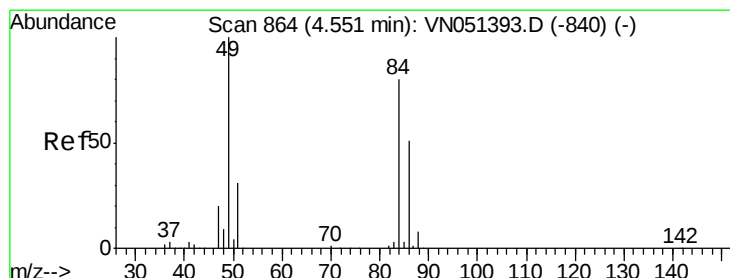
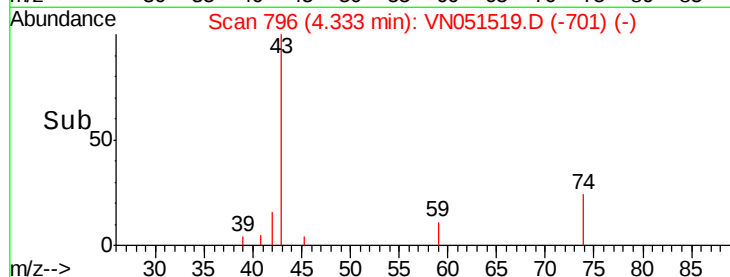
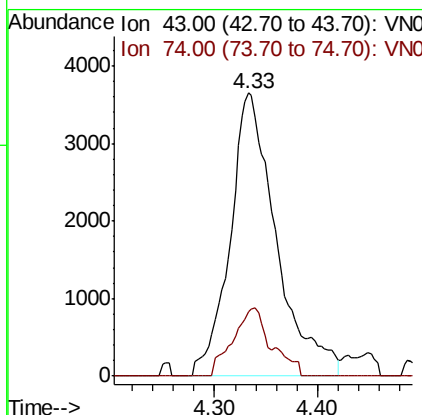
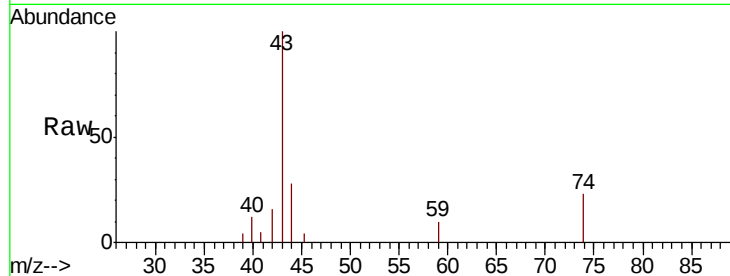




#18
Methyl Acetate
Concen: 1.863 ug/l
RT: 4.33 min Scan# 796
Delta R.T. 0.01 min
Lab File: VN051519.D
Acq: 26 Sep 2018 7:03

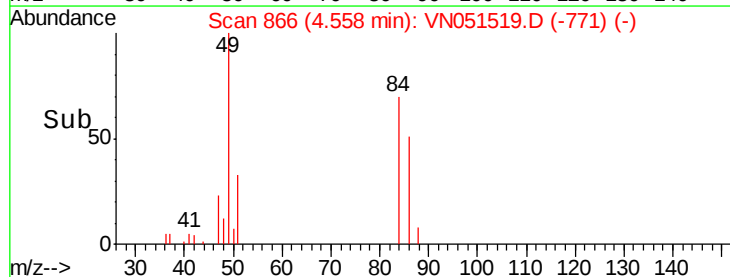
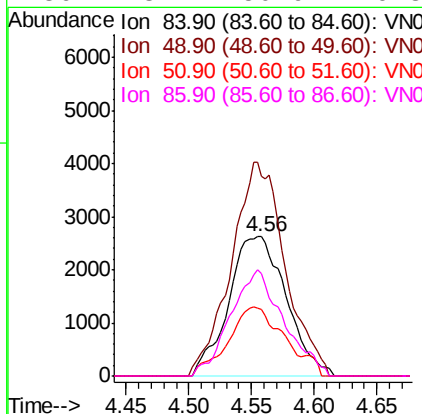
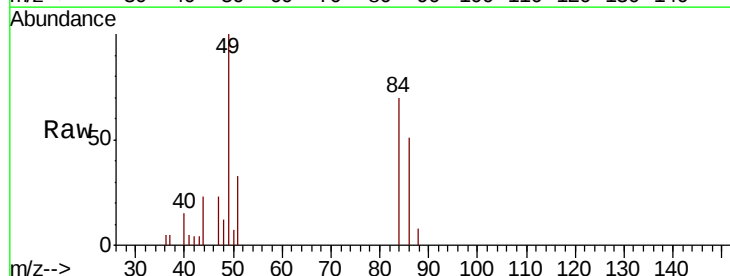
Instrument :
MSVOA_N
ClientSampleId :
PB113167ZHE#08

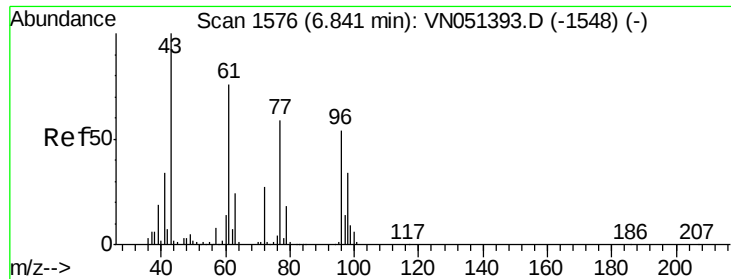
Tot Ion: 43 Resp: 11405
Ion Ratio Lower Upper
43 100
74 20.0 18.8 28.2



#20
Methylene Chloride
Concen: 1.054 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.01 min
Lab File: VN051519.D
Acq: 26 Sep 2018 7:03

Tgt Ion: 84 Resp: 8384
Ion Ratio Lower Upper
84 100
49 143.5 99.9 149.9
51 47.5 31.4 47.2#
86 73.1 50.9 76.3

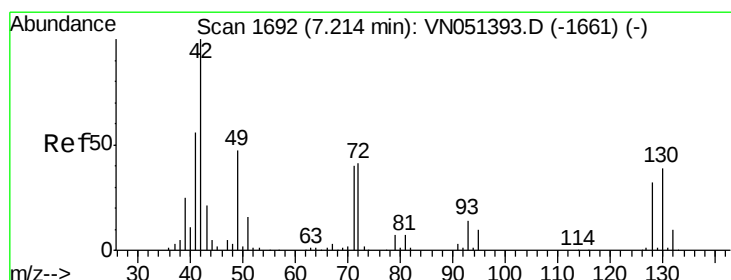
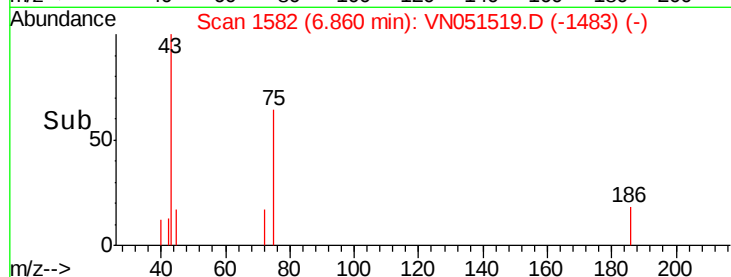
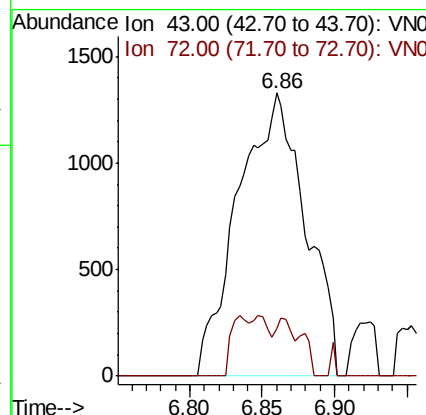
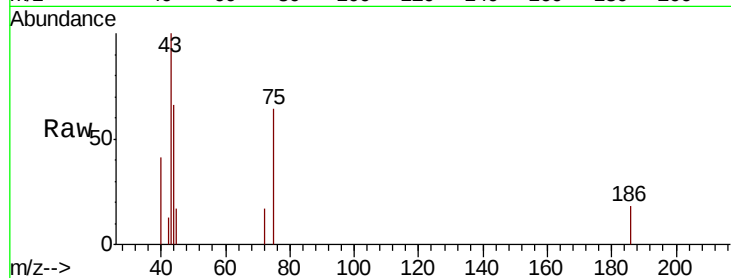




#25
2-Butanone
Concen: 1.551 ug/l
RT: 6.86 min Scan# 1582
Delta R.T. 0.02 min
Lab File: VN051519.D
Acq: 26 Sep 2018 7:03

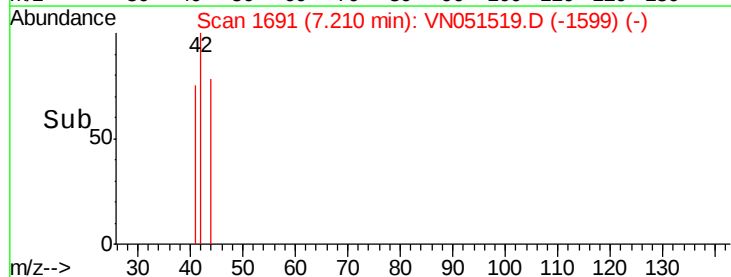
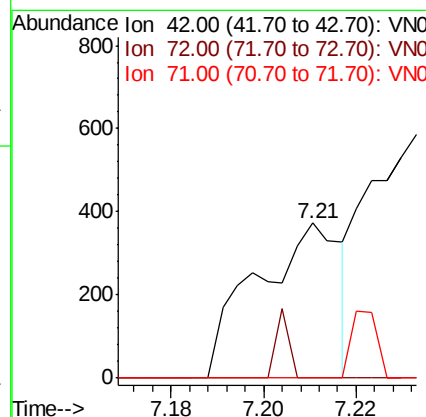
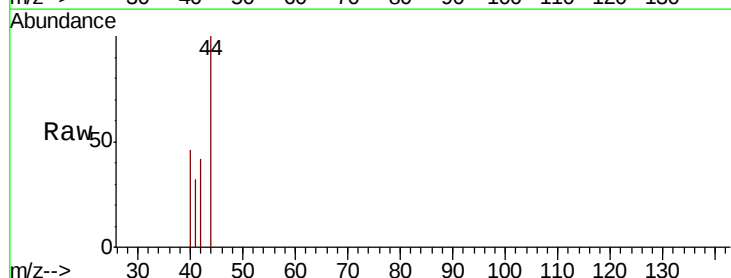
Instrument :
MSVOA_N
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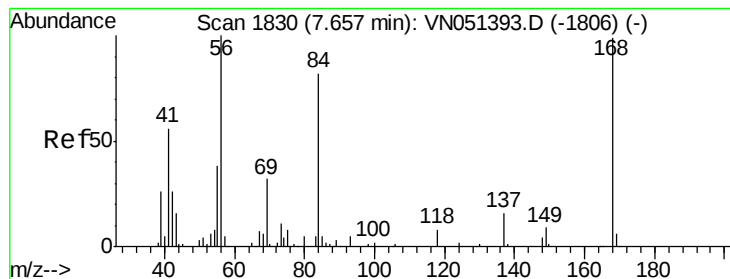
Tot Ion: 43 Resp: 4267
Ion Ratio Lower Upper
43 100
72 16.7 21.8 32.6#



#29
Tetrahydrofuran
Concen: 0.271 ug/l
RT: 7.21 min Scan# 1691
Delta R.T. -0.00 min
Lab File: VN051519.D
Acq: 26 Sep 2018 7:03

Tgt Ion: 42 Resp: 473
Ion Ratio Lower Upper
42 100
72 6.8 34.3 51.5#
71 13.1 32.2 48.4#





#31

Cyclohexane

Concen: 1.001 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.01 min

Lab File: VN051519.D

Acq: 26 Sep 2018 7:03

Instrument :

MSVOA_N

ClientSampleId :

PB113167ZHE#08

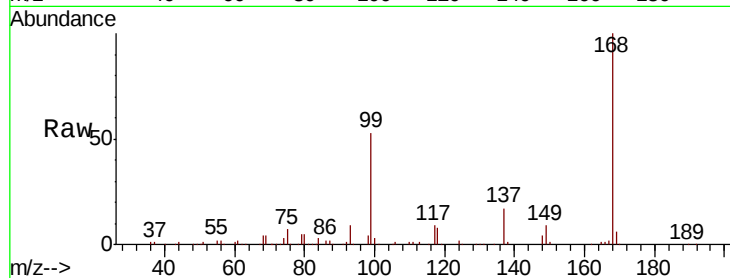
Tot Ion: 56 Resp: 12672

Ion Ratio Lower Upper

56 100

69 191.1 25.8 38.6#

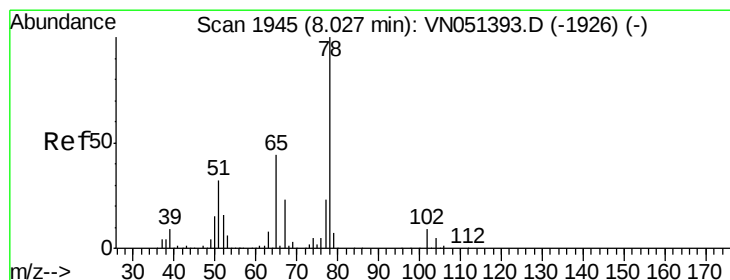
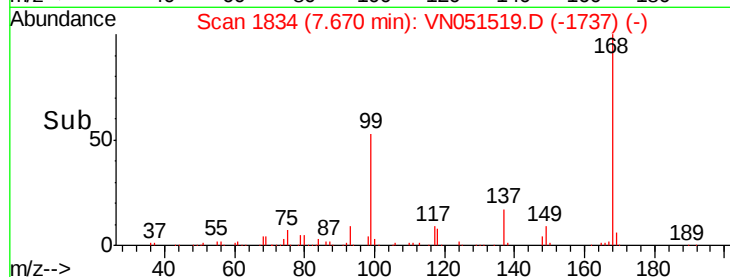
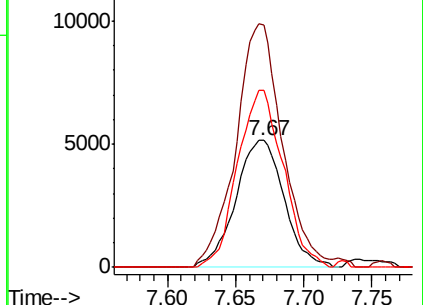
84 139.7 66.0 99.0#



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: 56.414 ug/l

RT: 8.03 min Scan# 1946

Delta R.T. 0.00 min

Lab File: VN051519.D

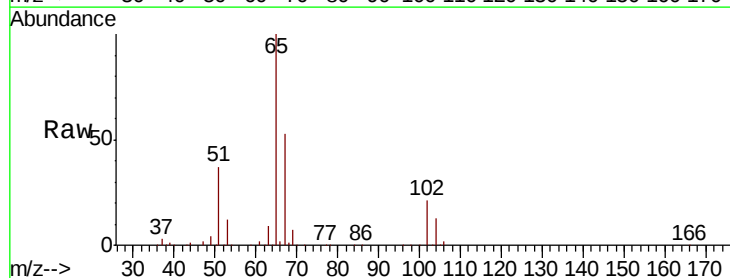
Acq: 26 Sep 2018 7:03

Tgt Ion: 65 Resp: 453426

Ion Ratio Lower Upper

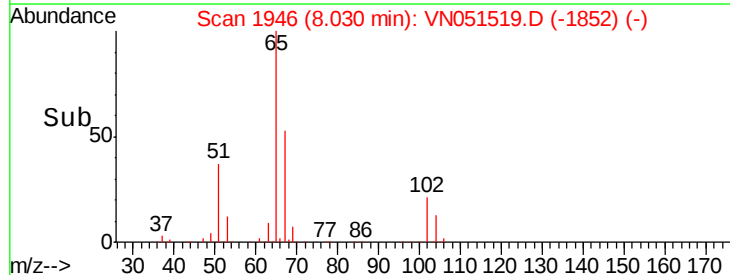
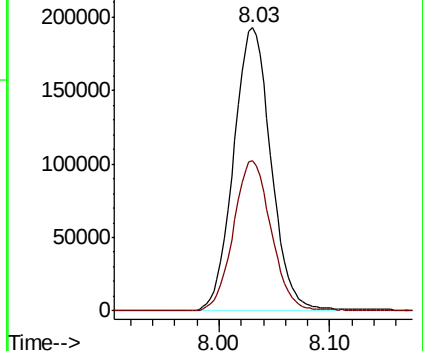
65 100

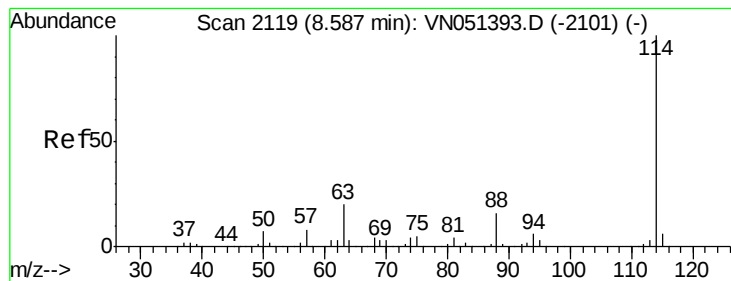
67 53.5 0.0 107.8



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: VN051519.D

Acq: 26 Sep 2018 7:03

Instrument :

MSVOA_N

ClientSampleId :

PB113167ZHE#08

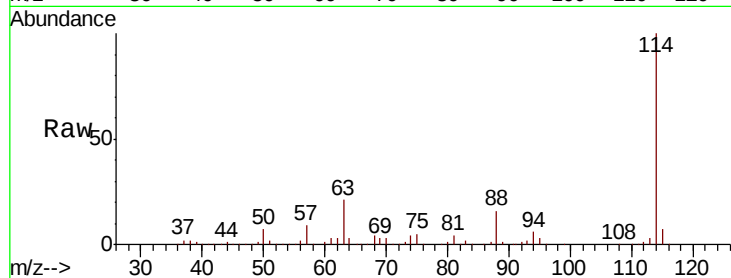
Tot Ion:114 Resp: 1011350

Ion Ratio Lower Upper

114 100

63 21.1 0.0 40.2

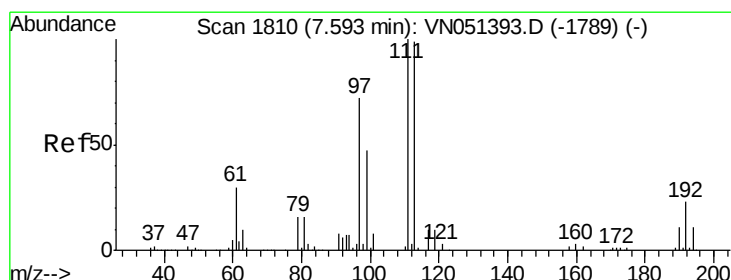
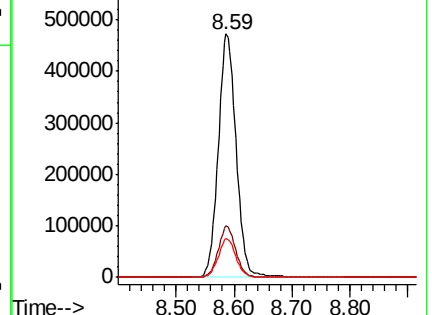
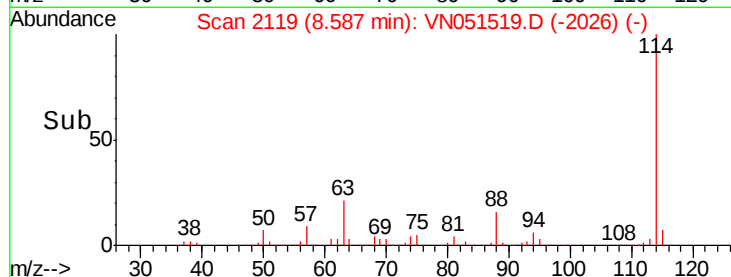
88 15.9 0.0 31.4



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: 48.748 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. -0.00 min

Lab File: VN051519.D

Acq: 26 Sep 2018 7:03

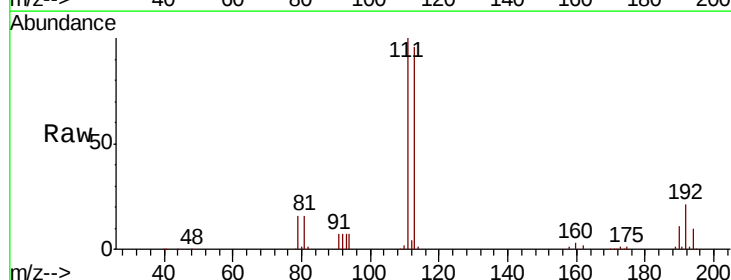
Tgt Ion:113 Resp: 394240

Ion Ratio Lower Upper

113 100

111 103.6 82.6 123.8

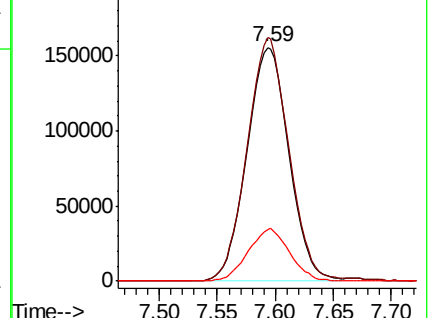
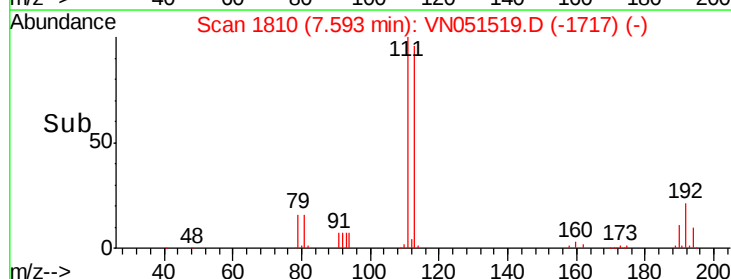
192 22.1 18.0 27.0

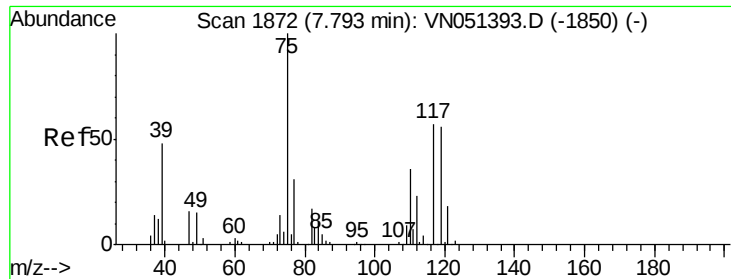


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

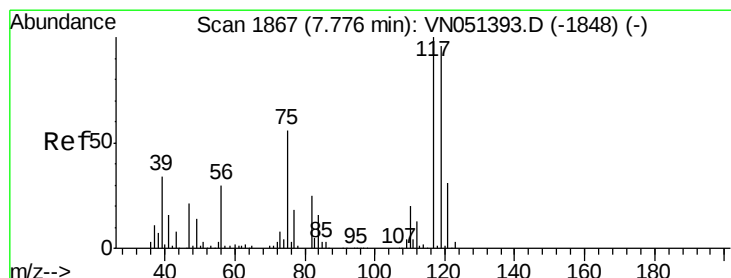
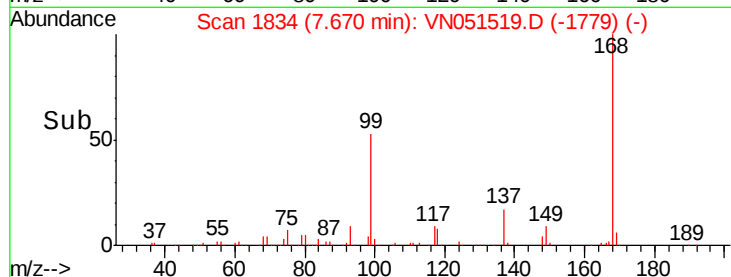
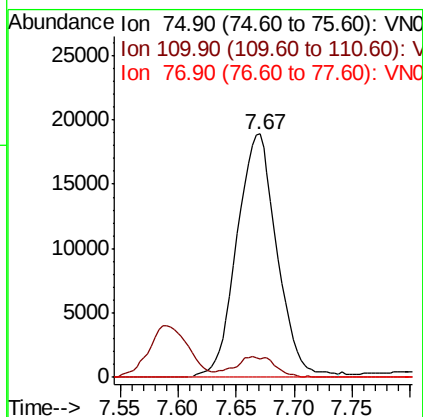
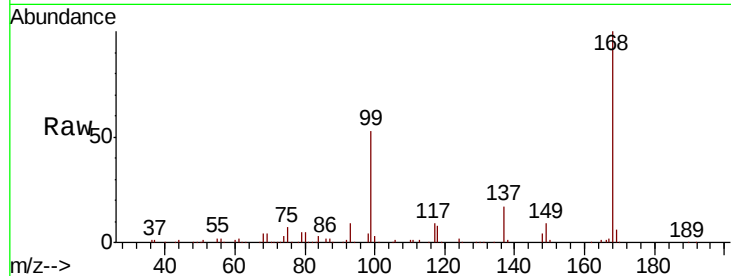




#36
 1,1-Dichloropropene
 Concen: 3.892 ug/l
 RT: 7.67 min Scan# 1834
 Delta R.T. -0.12 min
 Lab File: VN051519.D
 Acq: 26 Sep 2018 7:03

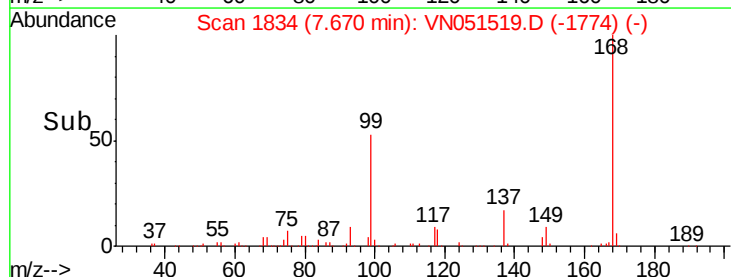
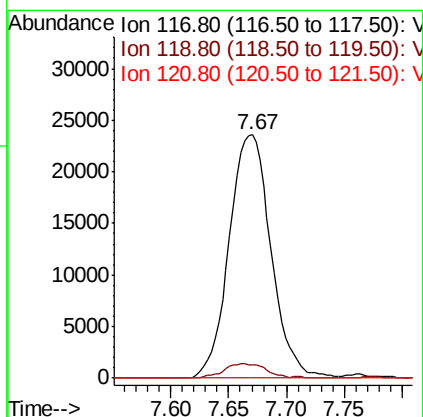
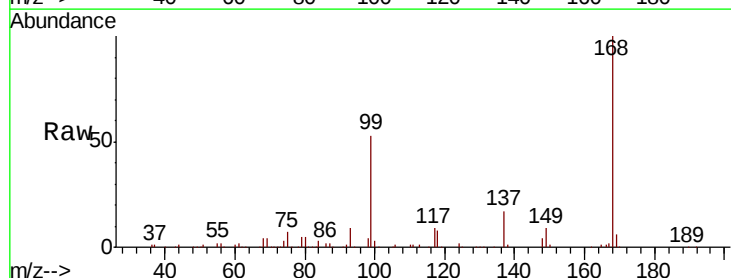
Instrument :
 MSVOA_N
 ClientSampleId :
 PB113167ZHE#08

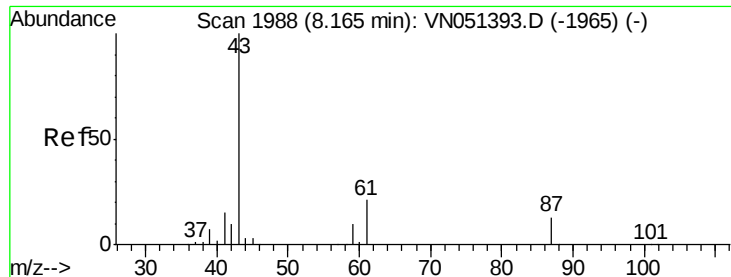
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.1	18.1	54.3#
77	0.0	25.6	38.4#



#38
 Carbon Tetrachloride
 Concen: 4.822 ug/l
 RT: 7.67 min Scan# 1834
 Delta R.T. -0.11 min
 Lab File: VN051519.D
 Acq: 26 Sep 2018 7:03

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.5	76.9	115.3#
121	0.0	24.6	37.0#





#43

Isopropyl Acetate

Concen: 22.078 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. -0.00 min

Lab File: VN051519.D

Acq: 26 Sep 2018 7:03

Instrument :

MSVOA_N

ClientSampleId :

PB113167ZHE#08

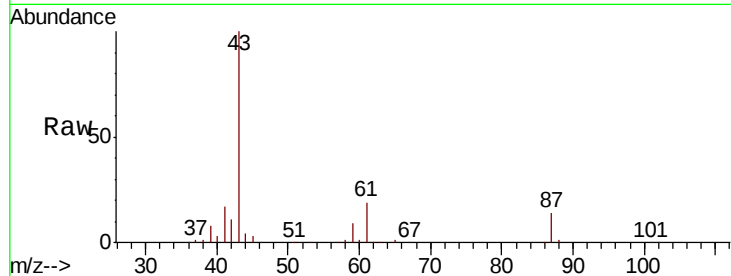
Tot Ion: 43 Resp: 268829

Ion Ratio Lower Upper

43 100

61 19.6 16.8 25.2

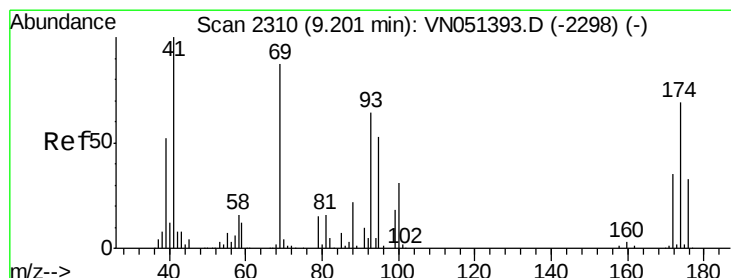
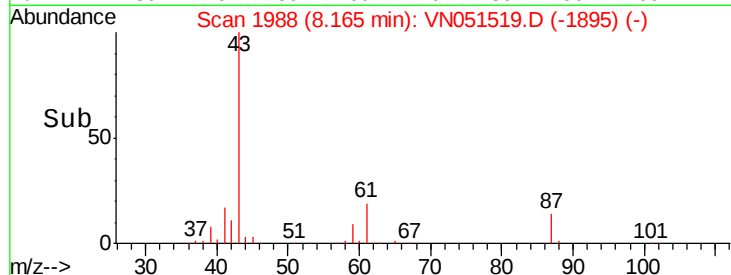
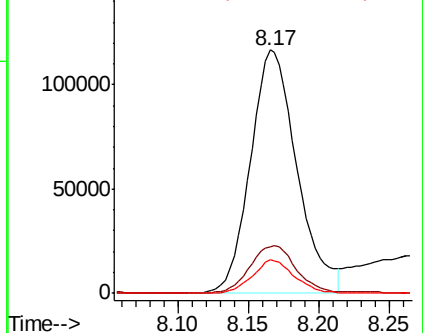
87 12.4 10.7 16.1



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



#48

Methyl methacrylate

Concen: 1.133 ug/l

RT: 9.19 min Scan# 2306

Delta R.T. -0.01 min

Lab File: VN051519.D

Acq: 26 Sep 2018 7:03

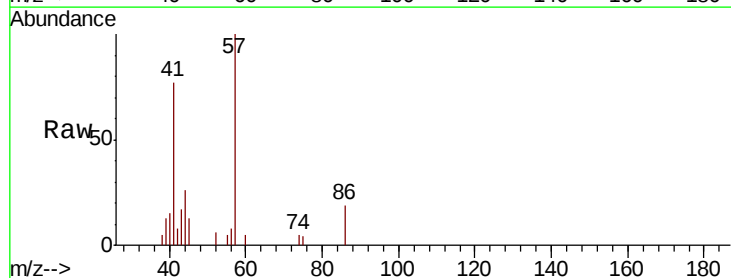
Tgt Ion: 41 Resp: 6881

Ion Ratio Lower Upper

41 100

69 1.1 70.4 105.6#

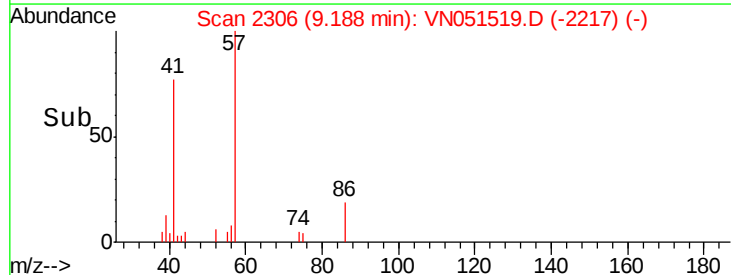
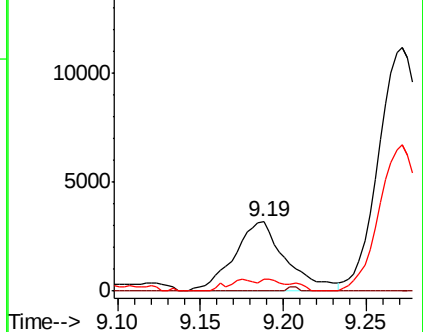
39 9.5 43.8 65.8#

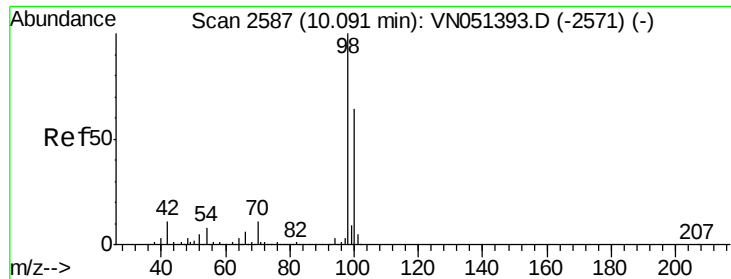


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





#50

Toluene-d8

Concen: 46.767 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN051519.D

Acq: 26 Sep 2018 7:03

Instrument :

MSVOA_N

ClientSampleId :

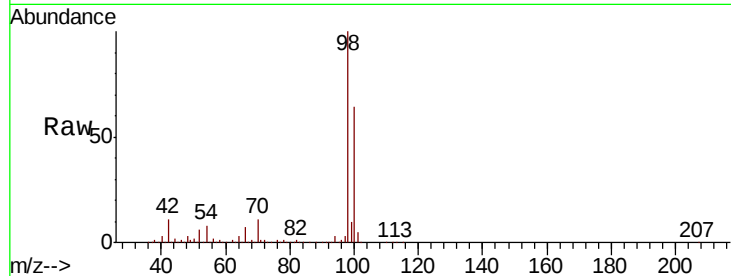
PB113167ZHE#08

Tot Ion: 98 Resp: 1424236

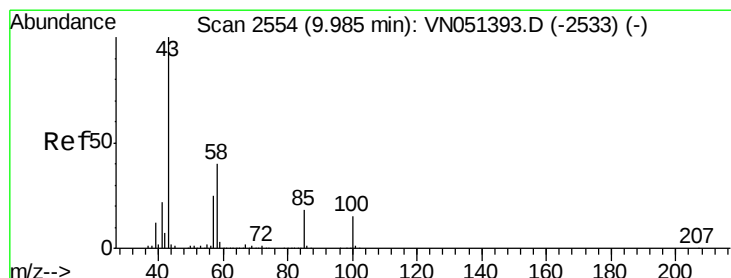
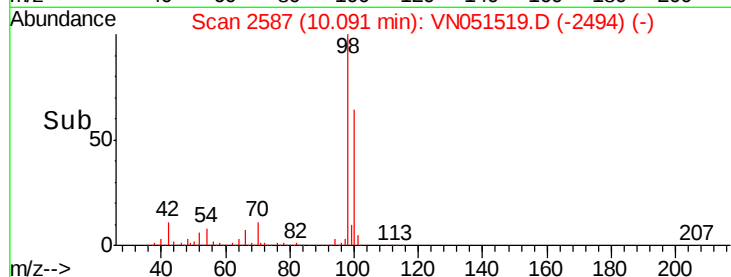
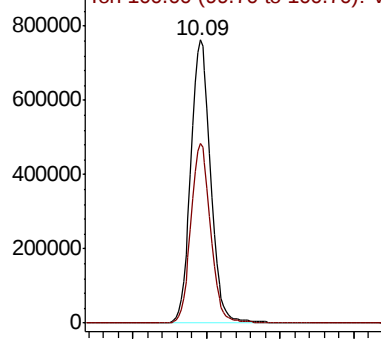
Ion Ratio Lower Upper

98 100

100 63.1 50.6 75.8



Abundance Ion 98.00 (97.70 to 98.70): VN051393.D (-2571) (-)



#51

4-Methyl-2-Pentanone

Concen: 0.394 ug/l

RT: 9.99 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN051519.D

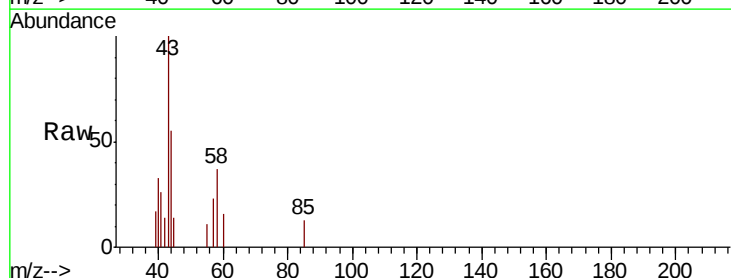
Acq: 26 Sep 2018 7:03

Tgt Ion: 43 Resp: 2636

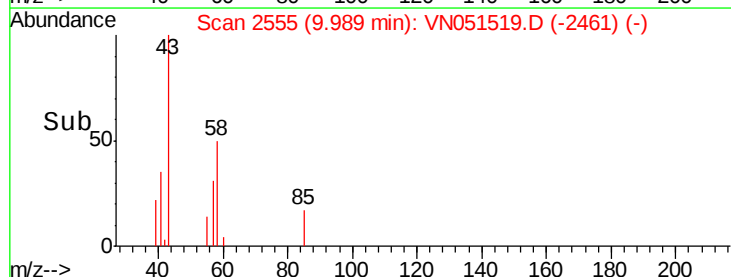
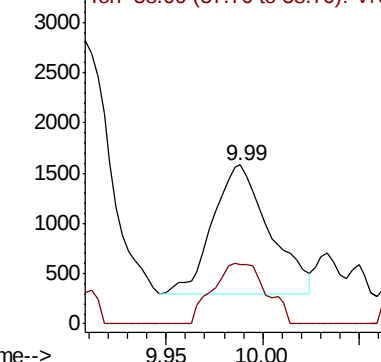
Ion Ratio Lower Upper

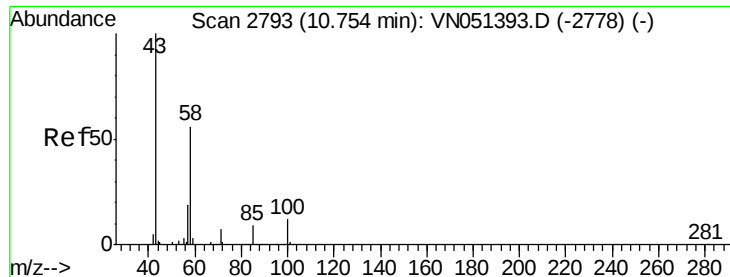
43 100

58 43.8 31.5 47.3



Abundance Ion 43.00 (42.70 to 43.70): VN051393.D (-2533) (-)

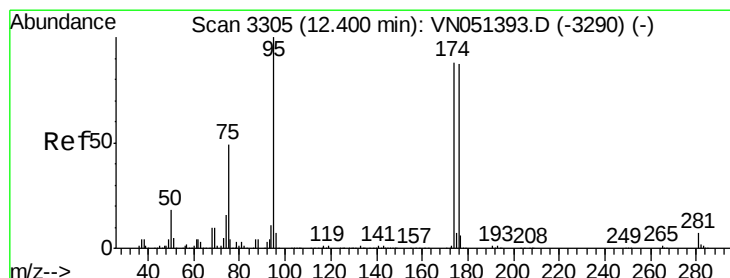
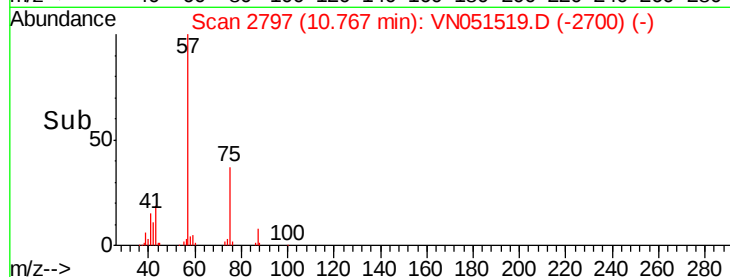
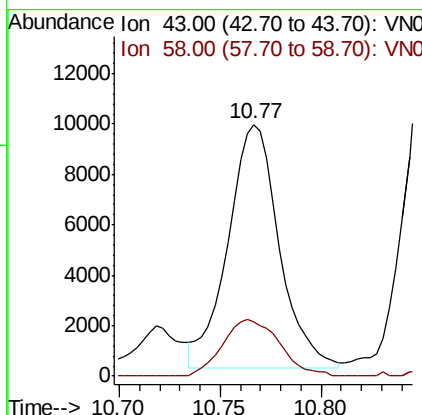
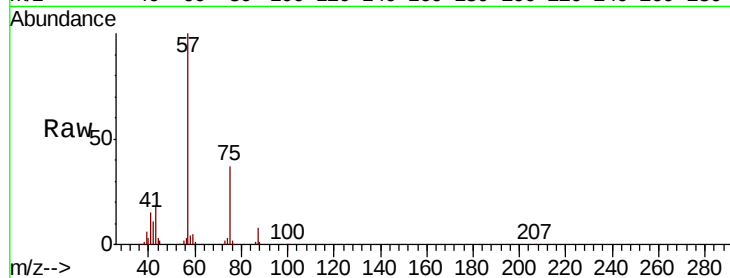




#59
2-Hexanone
Concen: 3.967 ug/l
RT: 10.77 min Scan# 2797
Delta R.T. 0.01 min
Lab File: VN051519.D
Acq: 26 Sep 2018 7:03

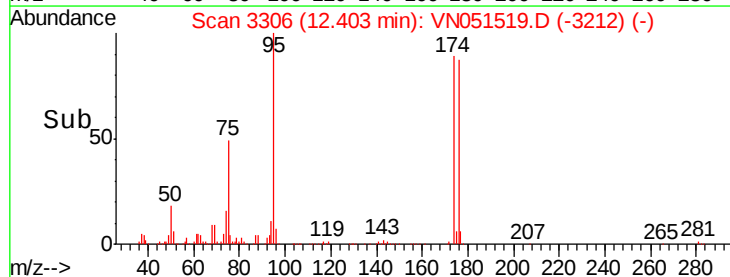
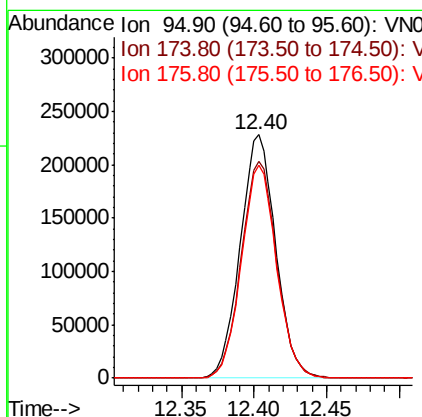
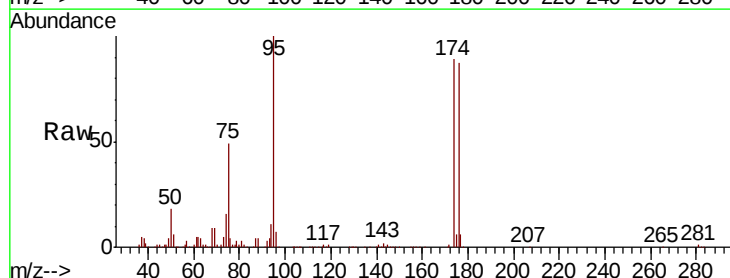
Instrument :
MSVOA_N
ClientSampleId :
PB113167ZHE#08

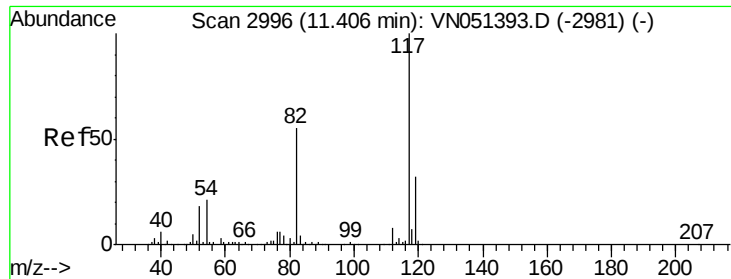
Tot Ion: 43 Resp: 17220
Ion Ratio Lower Upper
43 100
58 25.7 27.7 83.0#



#62
4-Bromofluorobenzene
Concen: 39.390 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN051519.D
Acq: 26 Sep 2018 7:03

Tgt Ion: 95 Resp: 388066
Ion Ratio Lower Upper
95 100
174 89.5 0.0 181.6
176 86.6 0.0 176.4

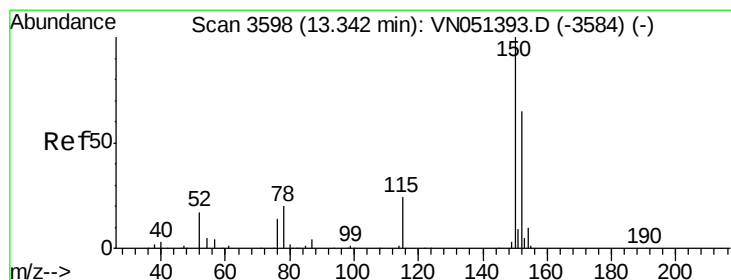
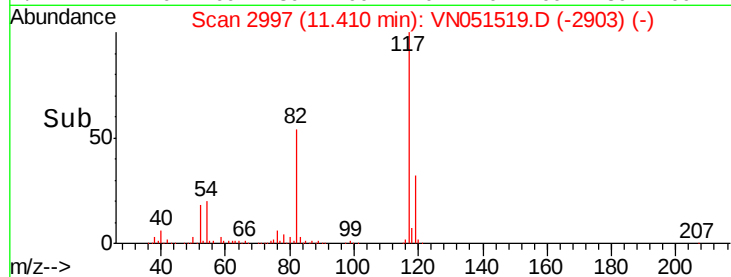
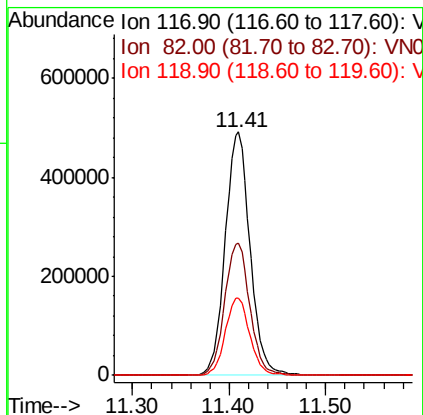
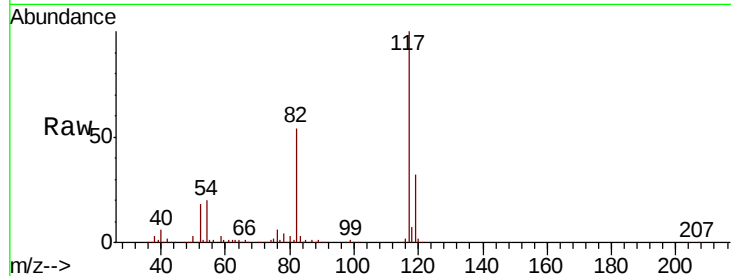




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN051519.D
Acq: 26 Sep 2018 7:03

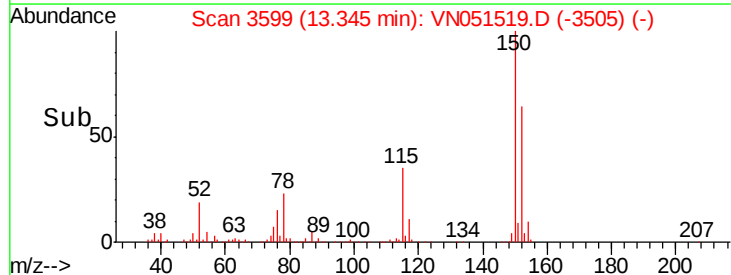
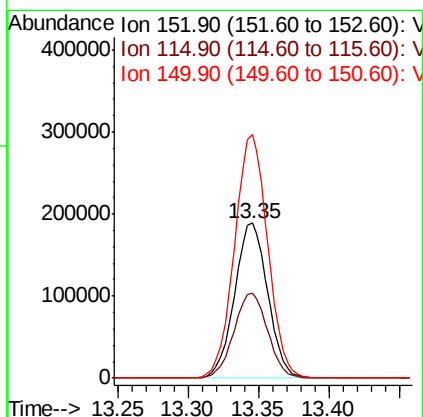
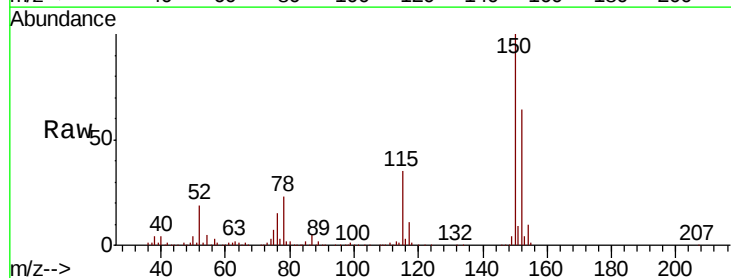
Instrument :
MSVOA_N
ClientSampleId :
PB113167ZHE#08

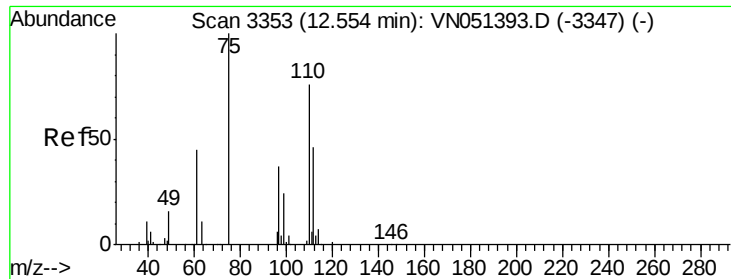
Tot Ion:117 Resp: 873387
Ion Ratio Lower Upper
117 100
82 54.4 44.2 66.2
119 31.7 25.9 38.9



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. 0.00 min
Lab File: VN051519.D
Acq: 26 Sep 2018 7:03

Tgt Ion:152 Resp: 311402
Ion Ratio Lower Upper
152 100
115 55.6 28.3 84.9
150 157.0 0.0 353.6





#76

1,2,3-Trichloropropane

Concen: 36.377 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN051519.D

Acq: 26 Sep 2018 7:03

Instrument :

MSVOA_N

ClientSampleId :

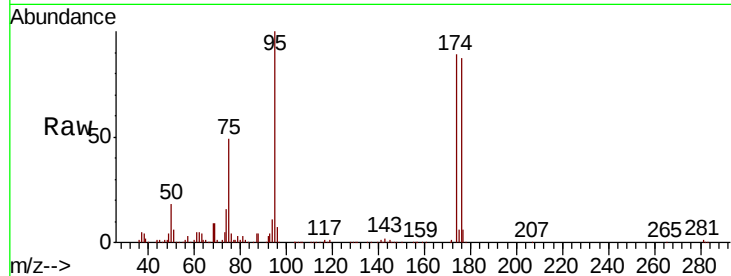
PB113167ZHE#08

Tot Ion: 75 Resp: 188051

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN051393.D (-3347) (-)

Ion 77.00 (76.70 to 77.70): VN051393.D (-3347) (-)

12.40

120000

100000

80000

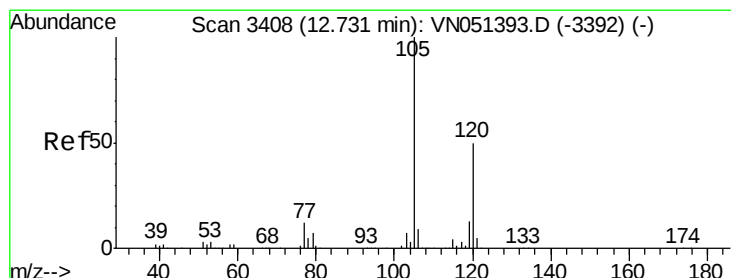
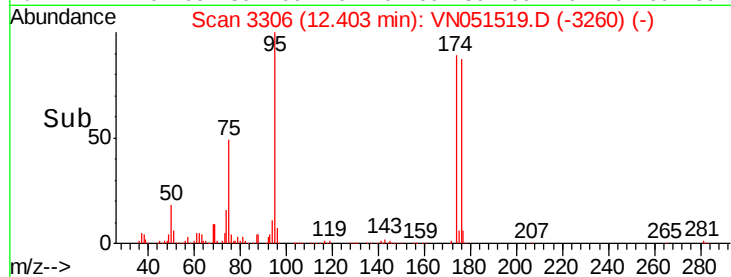
60000

40000

20000

0

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 0.236 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN051519.D

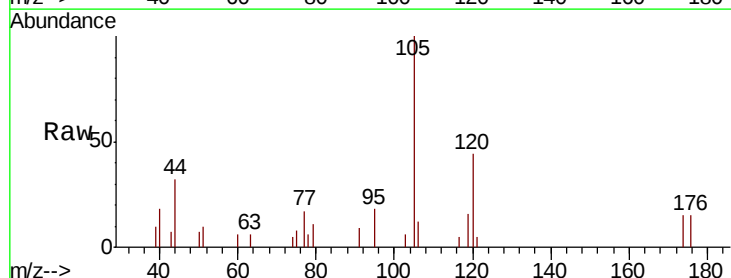
Acq: 26 Sep 2018 7:03

Tgt Ion: 105 Resp: 5048

Ion Ratio Lower Upper

105 100

120 46.3 24.8 74.4



Abundance Ion 105.00 (104.70 to 105.70): VN051393.D (-3392) (-)

Ion 120.00 (119.70 to 120.70): VN051393.D (-3392) (-)

12.73

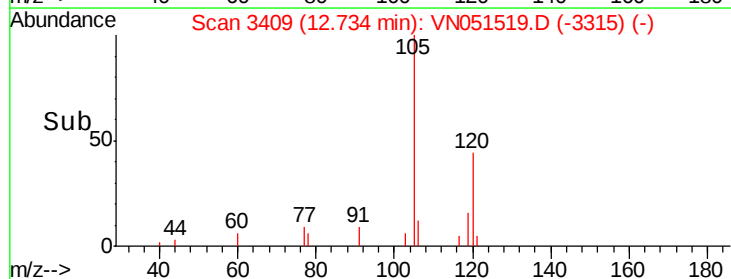
3000

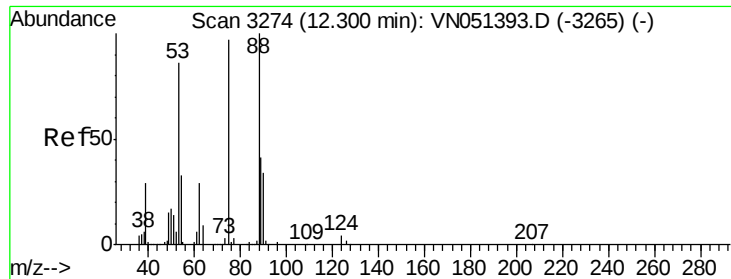
2000

1000

0

Time-->

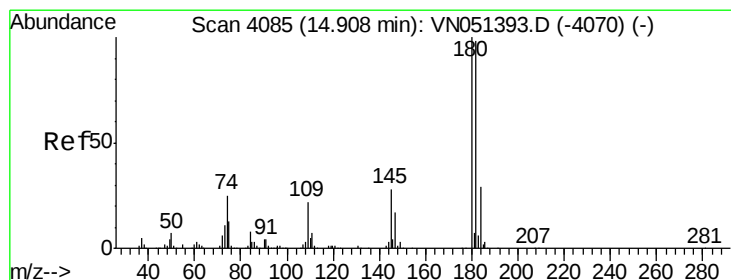
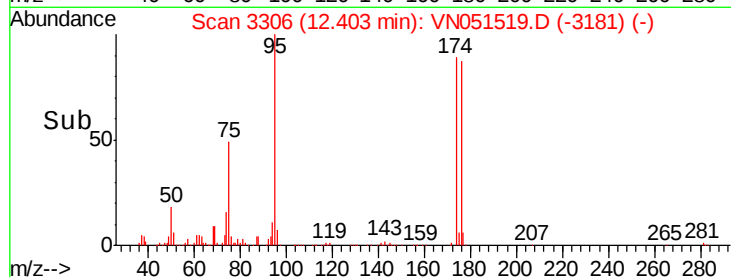
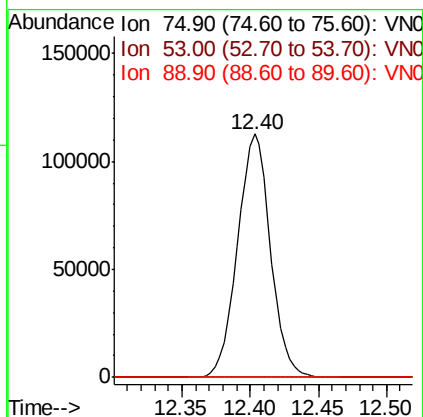
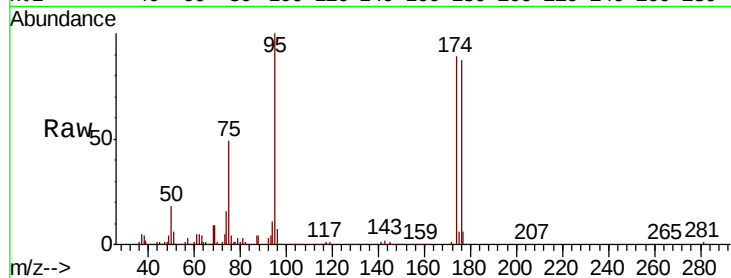




#81
trans-1,4-Dichloro-2-butene
Concen: 111.857 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.10 min
Lab File: VN051519.D
Acq: 26 Sep 2018 7:03

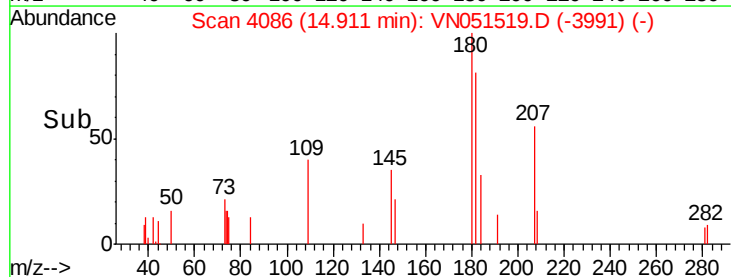
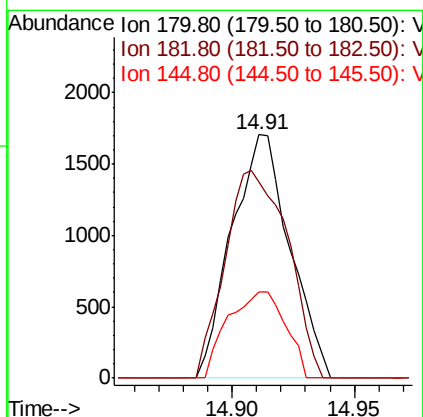
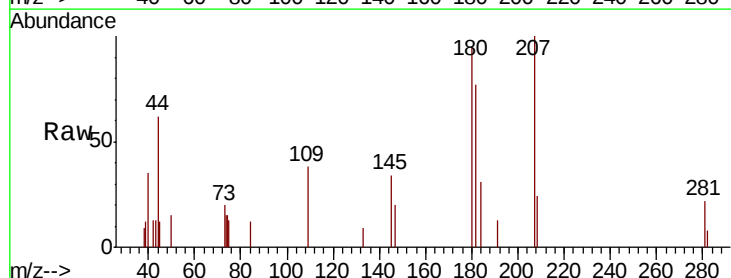
Instrument :
MSVOA_N
ClientSampleId :
PB113167ZHE#08

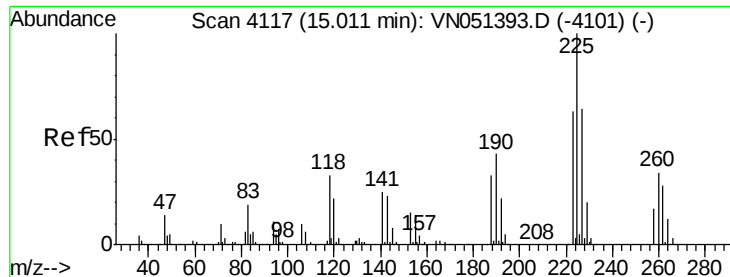
Tot Ion: 75 Resp: 188051
Ion Ratio Lower Upper
75 100
53 0.1 73.9 110.9#
89 0.0 36.7 55.1#



#93
1,2,4-Trichlorobenzene
Concen: 6.393 ug/l
RT: 14.91 min Scan# 4086
Delta R.T. 0.00 min
Lab File: VN051519.D
Acq: 26 Sep 2018 7:03

Tgt Ion: 180 Resp: 2814
Ion Ratio Lower Upper
180 100
182 92.6 48.5 145.6
145 35.3 14.1 42.4





#94

Hexachlorobutadiene

Concen: 0.219 ug/l

RT: 15.01 min Scan# 4116

Delta R.T. -0.00 min

Lab File: VN051519.D

Acq: 26 Sep 2018 7:03

Instrument :

MSVOA_N

ClientSampleId :

PB113167ZHE#08

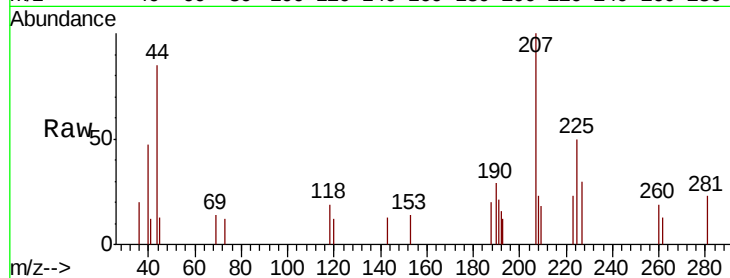
Tot Ion:225 Resp: 926

Ion Ratio Lower Upper

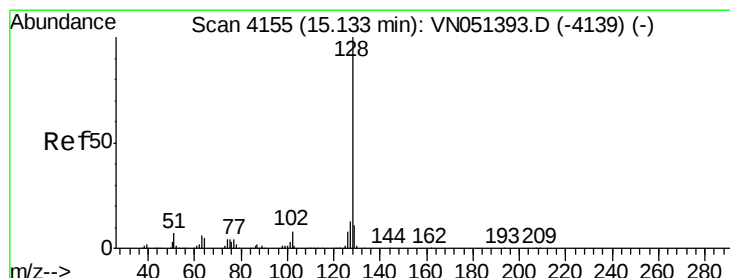
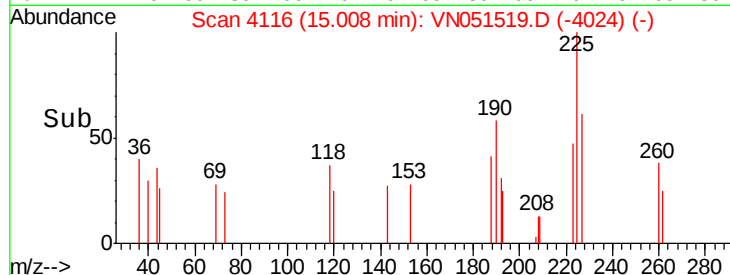
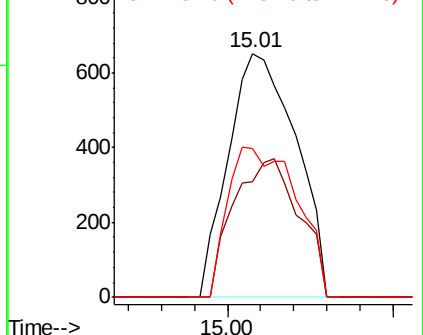
225 100

223 55.0 31.9 95.9

227 62.7 32.5 97.5



Abundance Ion 224.70 (224.40 to 225.40): V
Ion 222.70 (222.40 to 223.40): V
Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 8.480 ug/l

RT: 15.14 min Scan# 4157

Delta R.T. 0.01 min

Lab File: VN051519.D

Acq: 26 Sep 2018 7:03

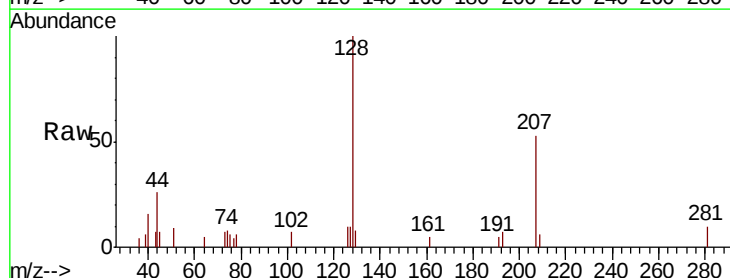
Tgt Ion:128 Resp: 6010

Ion Ratio Lower Upper

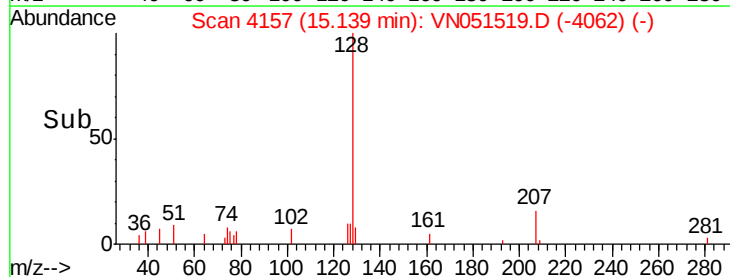
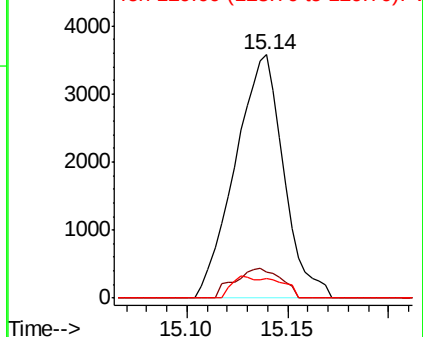
128 100

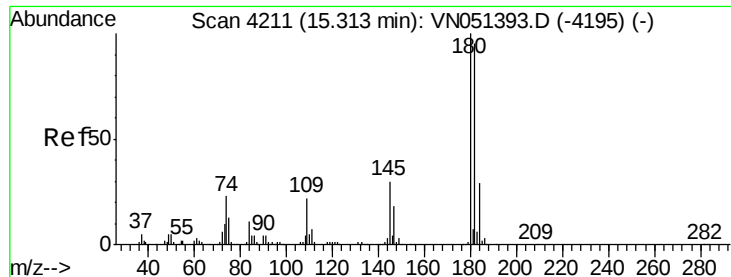
127 11.7 10.5 15.7

129 4.2 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

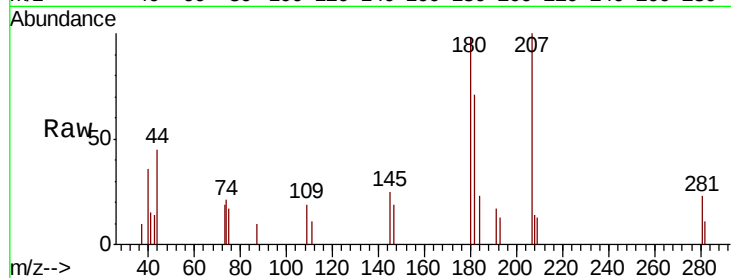




#96
 1,2,3-Trichlorobenzene
 Concen: 0.515 ug/l
 RT: 15.32 min Scan# 4212
 Delta R.T. 0.00 min
 Lab File: VN051519.D
 Acq: 26 Sep 2018 7:03

Instrument :
 MSVOA_N
 ClientSampleId :
 PB113167ZHE#08

Tot Ion	Ratio	Lower	Upper
180	100		
182	92.4	47.2	141.6
145	34.1	14.6	43.8



Abundance

Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

