

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092618\
 Data File : VN051520.D
 Acq On : 26 Sep 2018 7:28
 Operator : MD\SY
 Sample : PB113167ZHE#09
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB113167ZHE#09

Quant Time: Sep 26 08:17:54 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	628285	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	999216	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	832001	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	274547	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	445597	56.62	ug/l	0.00
Spiked Amount			Recovery	=	113.24%	
35) Dibromofluoromethane	7.59	113	382784	47.91	ug/l	0.00
Spiked Amount			Recovery	=	95.82%	
50) Toluene-d8	10.09	98	1392690	46.29	ug/l	0.00
Spiked Amount			Recovery	=	92.58%	
62) 4-Bromofluorobenzene	12.40	95	363602	37.36	ug/l	0.00
Spiked Amount			Recovery	=	74.72%	

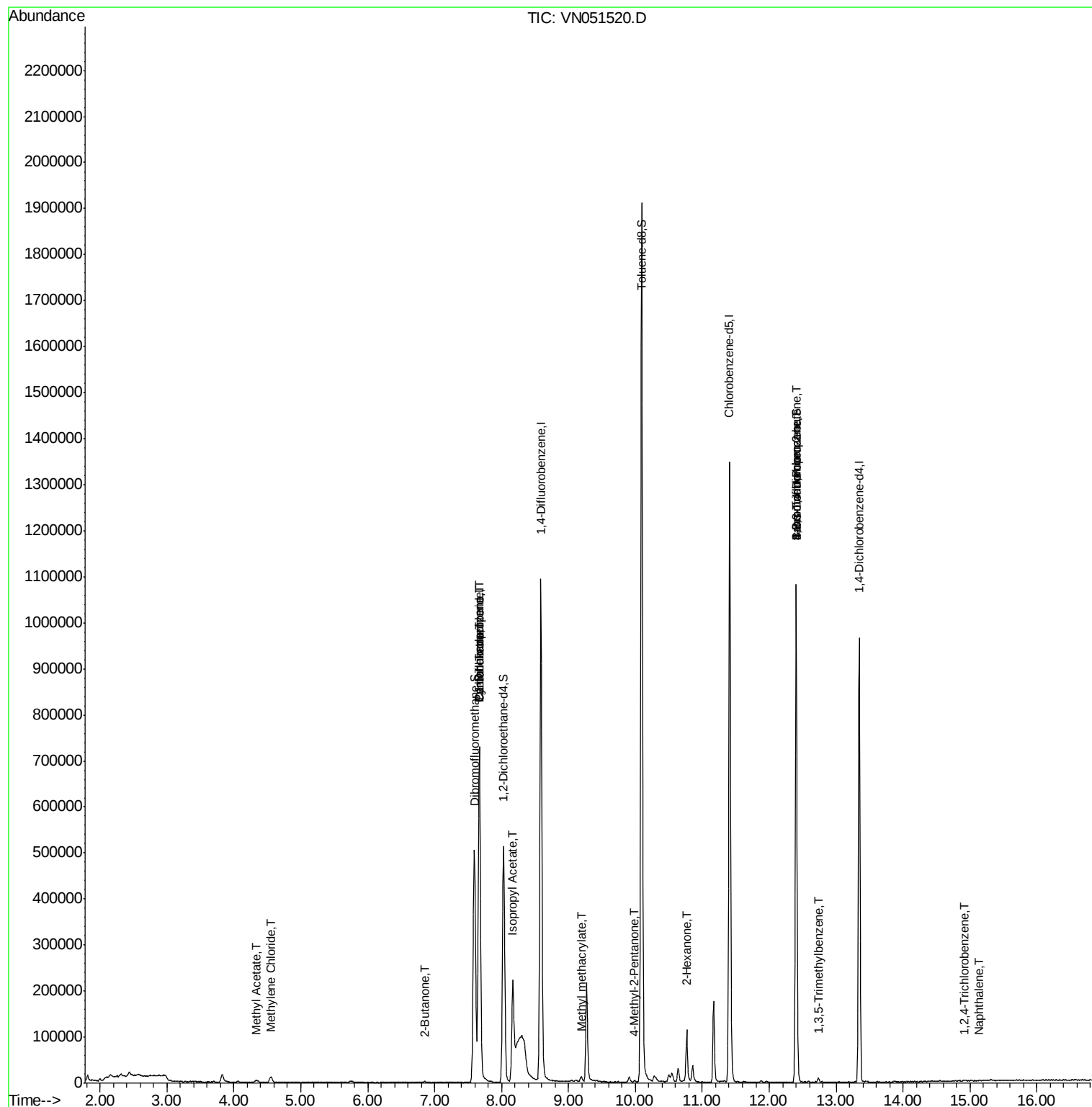
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.83	43	27535	Below Cal		92
18) Methyl Acetate	4.33	43	8020	1.338	ug/l #	68
20) Methylene Chloride	4.55	84	8646	1.110	ug/l	89
25) 2-Butanone	6.86	43	2989	1.110	ug/l	98
31) Cyclohexane	7.66	56	12067	0.974	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	44463	3.843	ug/l #	48
38) Carbon Tetrachloride	7.66	117	56895	4.701	ug/l #	16
43) Isopropyl Acetate	8.17	43	284589	23.656	ug/l	95
48) Methyl methacrylate	9.18	41	7301	1.217	ug/l #	17
51) 4-Methyl-2-Pentanone	9.99	43	1965	0.297	ug/l	94
59) 2-Hexanone	10.77	43	16711	3.896	ug/l #	58
71) Bromoform	12.41	173	4394	0.796	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	179820	39.454	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	4338	0.230	ug/l	89
81) trans-1,4-Dichloro-2-buten	12.40	75	179820	121.320	ug/l #	13
93) 1,2,4-Trichlorobenzene	14.91	180	568	6.076	ug/l #	54
95) Naphthalene	15.13	128	1587	8.175	ug/l #	86

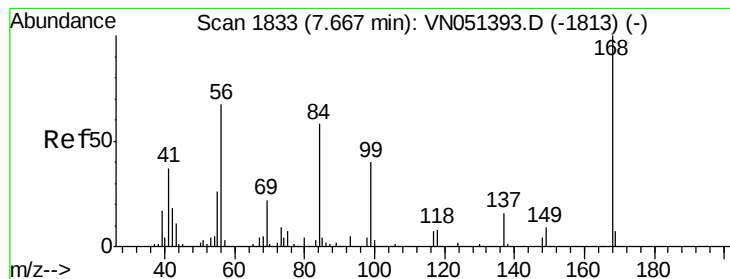
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.00 min

Lab File: VN051520.D

Acq: 26 Sep 2018 7:28

Instrument :

MSVOA_N

ClientSampleId :

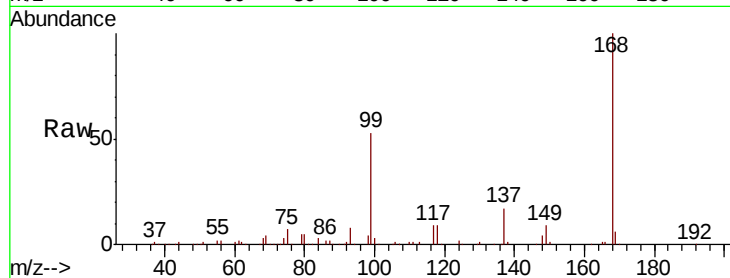
PB113167ZHE#09

Tot Ion:168 Resp: 628285

Ion Ratio Lower Upper

168 100

99 52.9 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

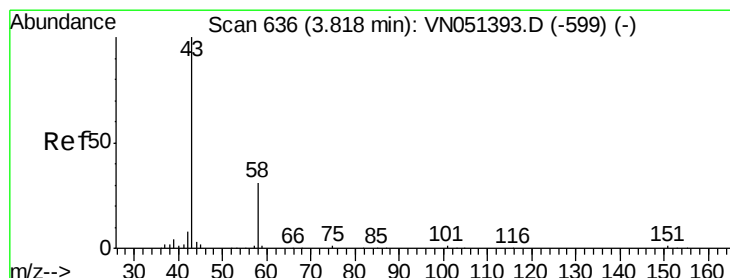
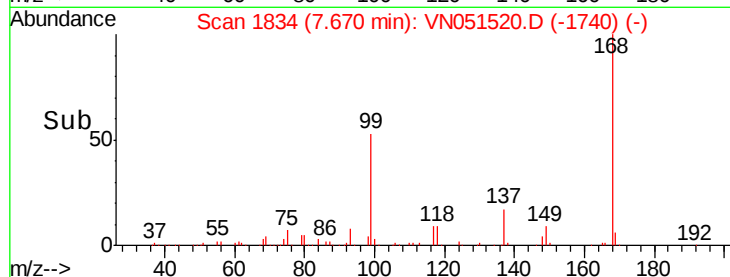
150000

100000

50000

0

Time-->



#16

Acetone

Concen: Below Cal

RT: 3.83 min Scan# 639

Delta R.T. 0.01 min

Lab File: VN051520.D

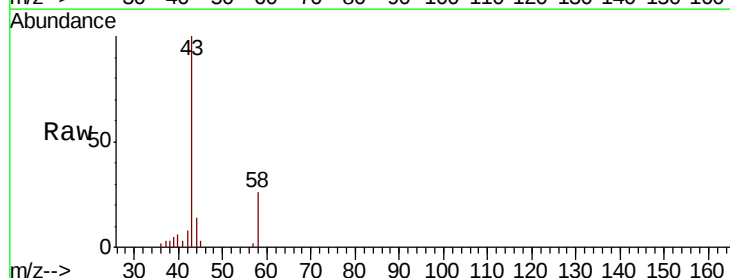
Acq: 26 Sep 2018 7:28

Tgt Ion: 43 Resp: 27535

Ion Ratio Lower Upper

43 100

58 26.7 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) (-)

3.83

12000

10000

8000

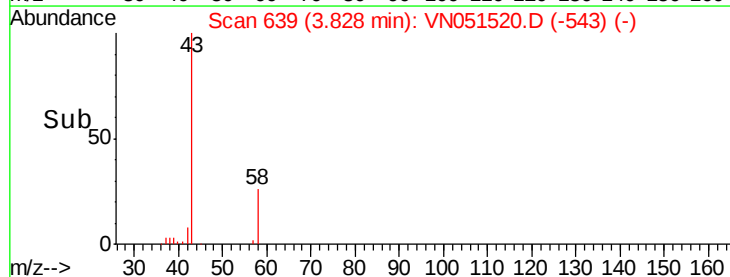
6000

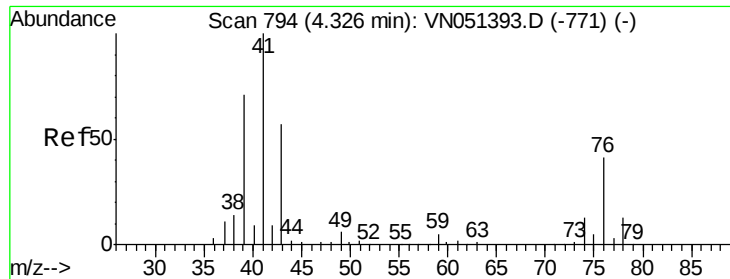
4000

2000

0

Time-->

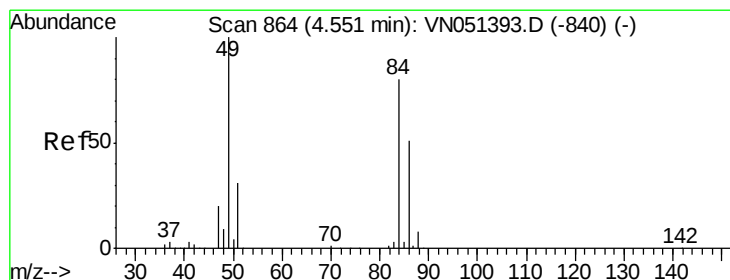
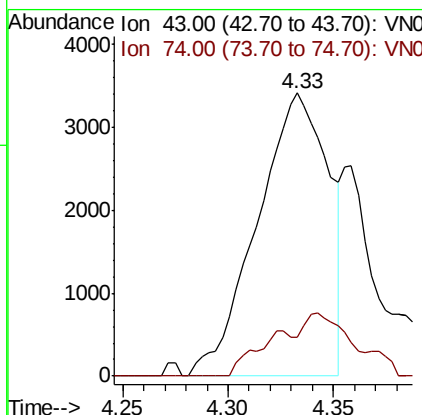
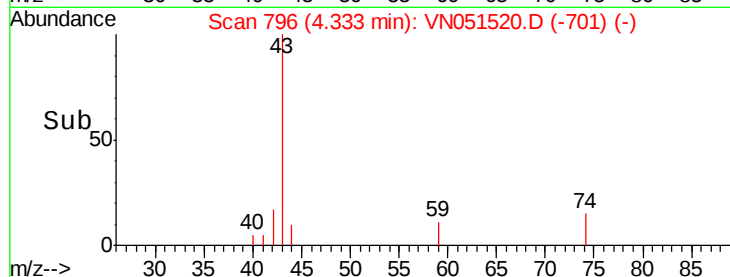
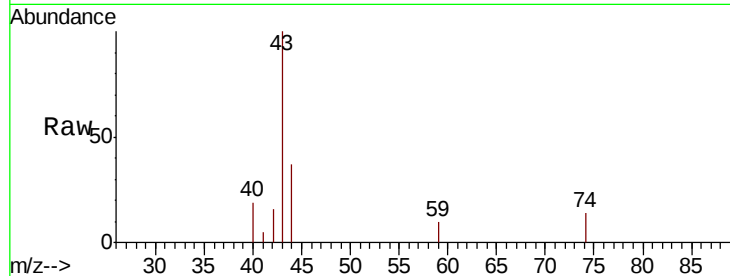




#18
Methyl Acetate
Concen: 1.338 ug/l
RT: 4.33 min Scan# 796
Delta R.T. 0.01 min
Lab File: VN051520.D
Acq: 26 Sep 2018 7:28

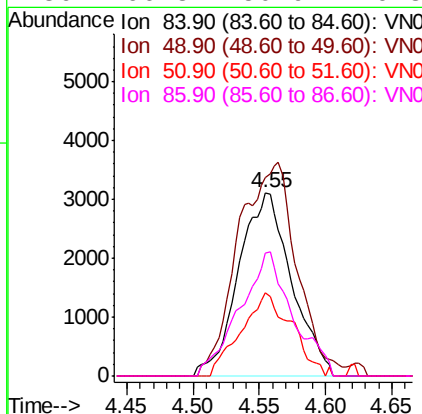
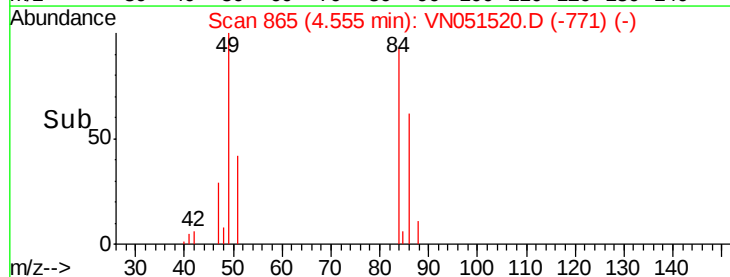
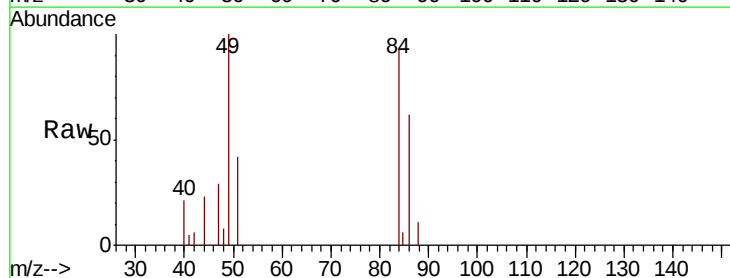
Instrument :
MSVOA_N
ClientSampleId :
PB113167ZHE#09

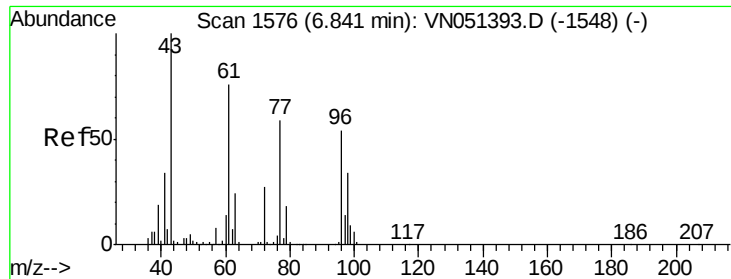
Tot Ion: 43 Resp: 8020
Ion Ratio Lower Upper
43 100
74 8.1 18.8 28.2#



#20
Methylene Chloride
Concen: 1.110 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN051520.D
Acq: 26 Sep 2018 7:28

Tgt Ion: 84 Resp: 8646
Ion Ratio Lower Upper
84 100
49 108.1 99.9 149.9
51 45.1 31.4 47.2
86 66.8 50.9 76.3

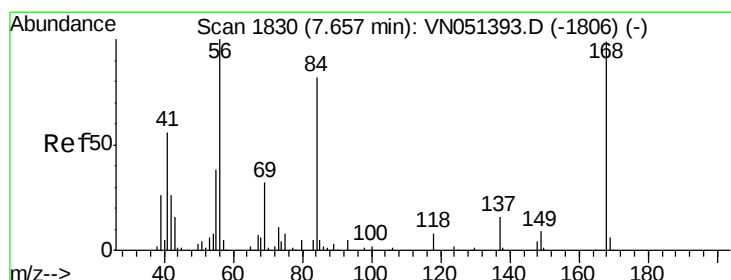
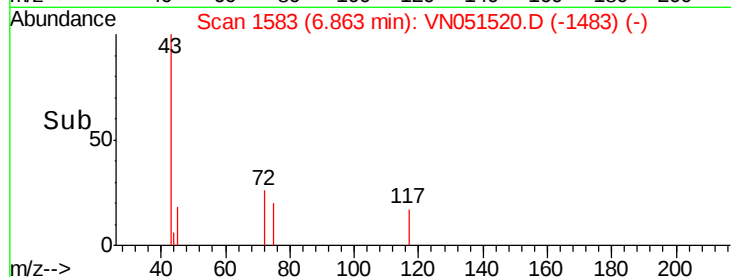
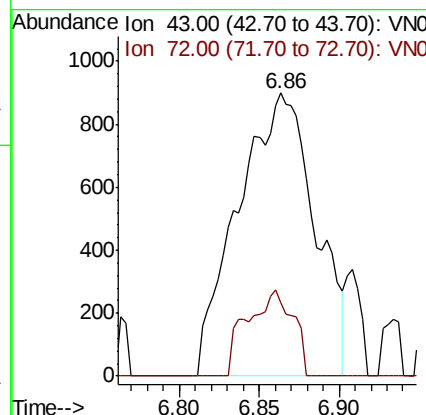
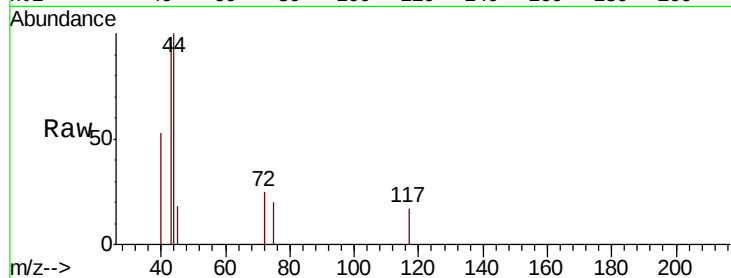




#25
2-Butanone
Concen: 1.110 ug/l
RT: 6.86 min Scan# 1583
Delta R.T. 0.02 min
Lab File: VN051520.D
Acq: 26 Sep 2018 7:28

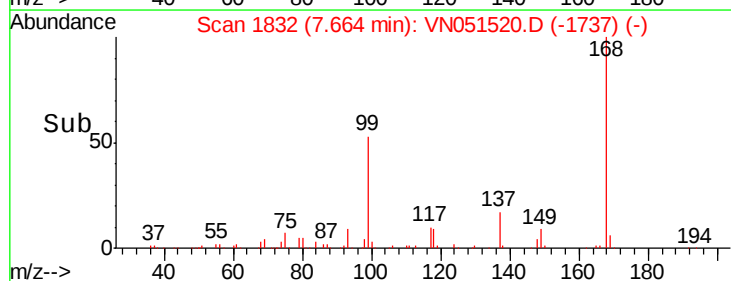
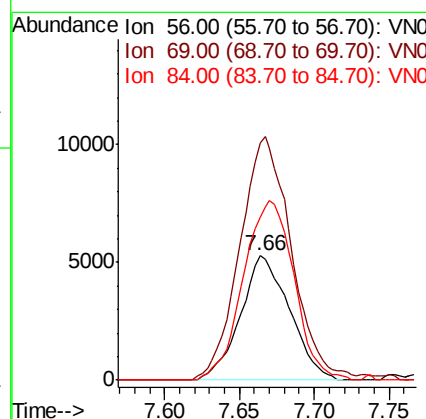
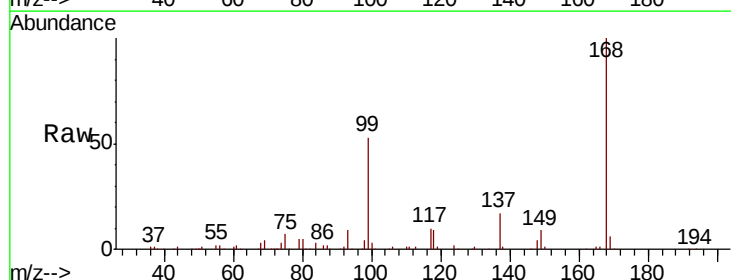
Instrument :
MSVOA_N
ClientSampleId :
PB113167ZHE#09

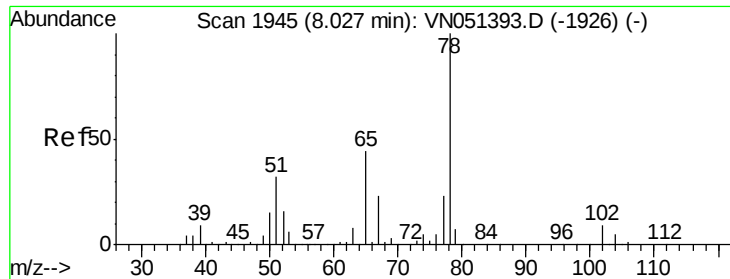
Tot Ion: 43 Resp: 2989
Ion Ratio Lower Upper
43 100
72 25.9 21.8 32.6



#31
Cyclohexane
Concen: 0.974 ug/l
RT: 7.66 min Scan# 1832
Delta R.T. 0.01 min
Lab File: VN051520.D
Acq: 26 Sep 2018 7:28

Tgt Ion: 56 Resp: 12067
Ion Ratio Lower Upper
56 100
69 190.9 25.8 38.6#
84 131.1 66.0 99.0#

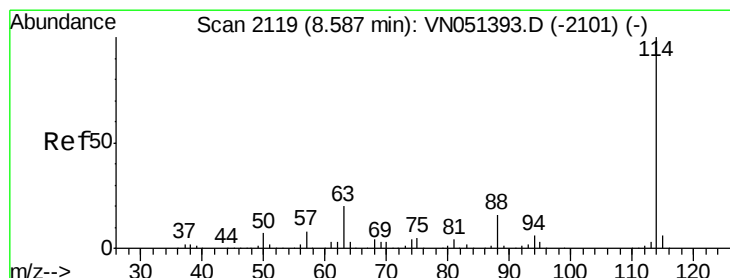
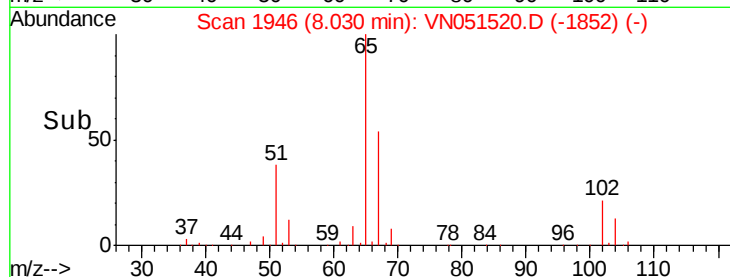
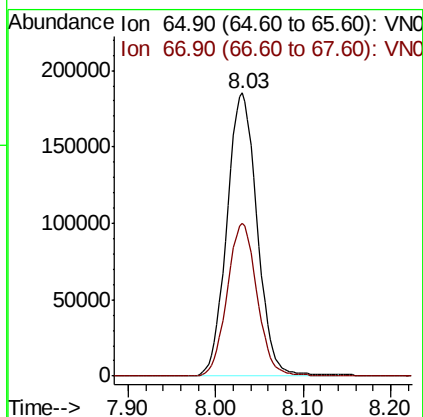
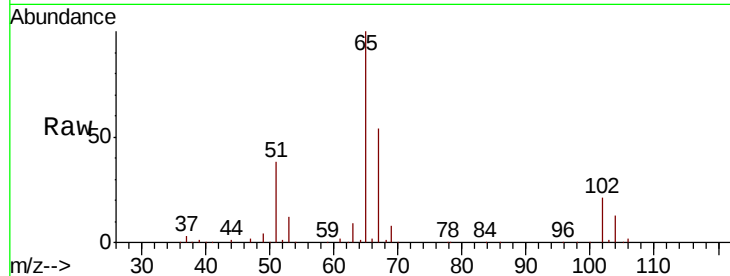




#33
 1,2-Dichloroethane-d4
 Concen: 56.617 ug/l
 RT: 8.03 min Scan# 1946
 Delta R.T. 0.00 min
 Lab File: VN051520.D
 Acq: 26 Sep 2018 7:28

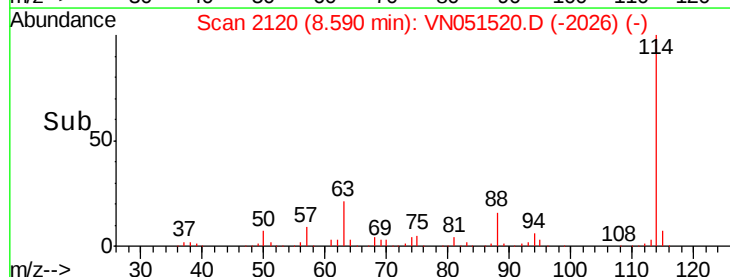
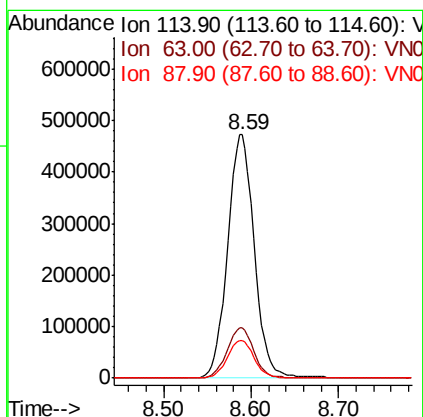
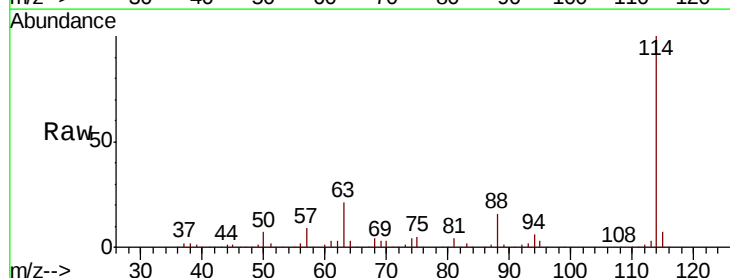
Instrument :
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 PB113167ZHE#09

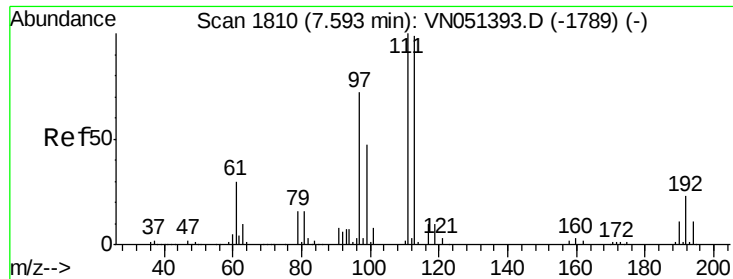
Tot Ion: 65 Resp: 445597
 Ion Ratio Lower Upper
 65 100
 67 53.0 0.0 107.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2120
 Delta R.T. 0.00 min
 Lab File: VN051520.D
 Acq: 26 Sep 2018 7:28

Tgt Ion: 114 Resp: 999216
 Ion Ratio Lower Upper
 114 100
 63 20.6 0.0 40.2
 88 15.6 0.0 31.4

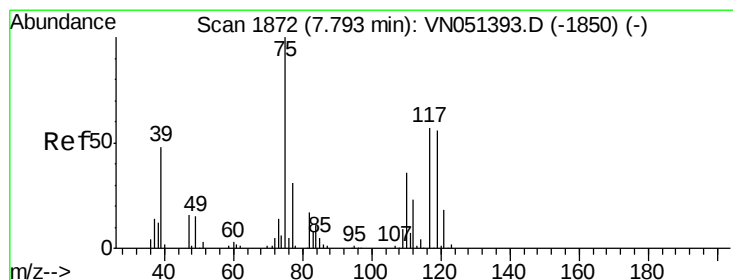
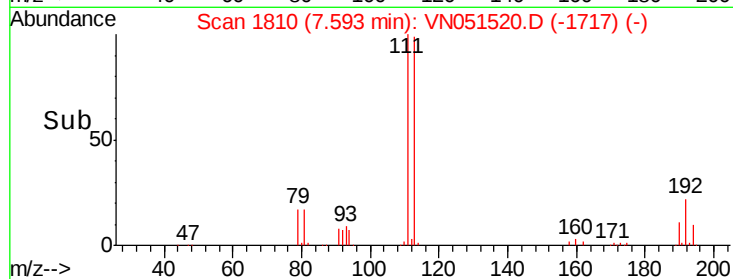
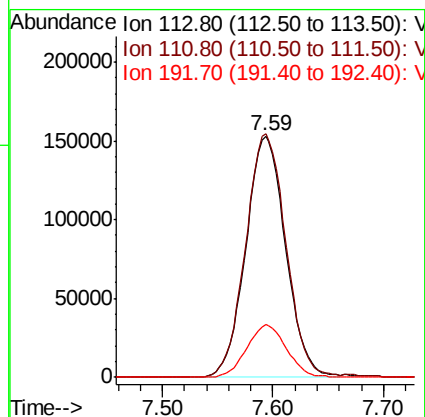
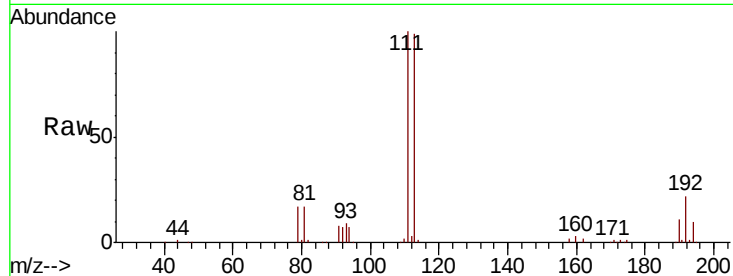




#35
 Dibromofluoromethane
 Concen: 47.906 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. -0.00 min
 Lab File: VN051520.D
 Acq: 26 Sep 2018 7:28

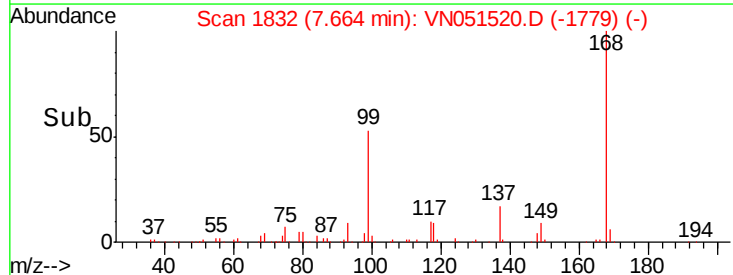
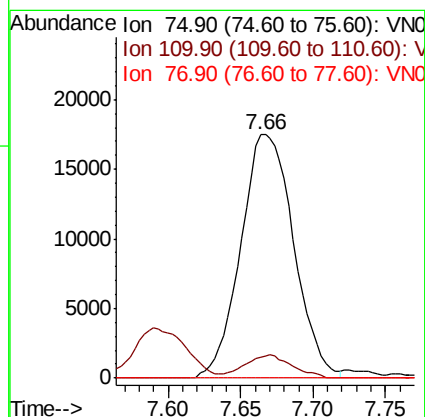
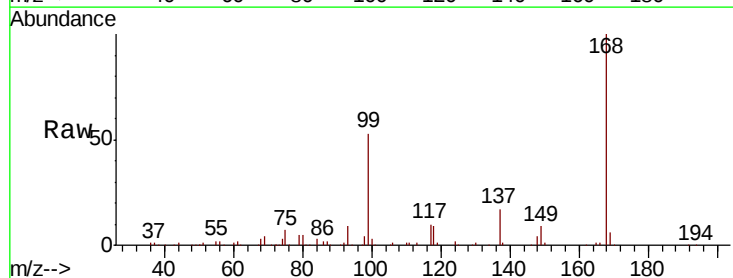
Instrument :
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 ClientSampleId :
 PB113167ZHE#09

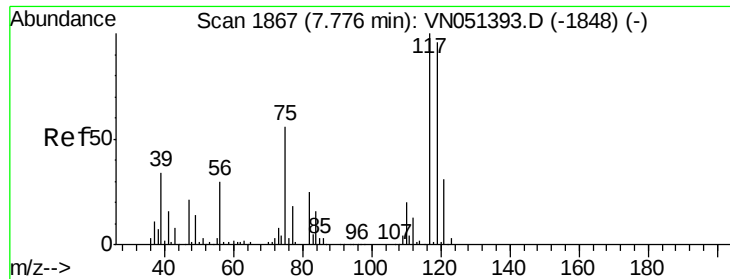
Tot Ion:113 Resp: 382784
 Ion Ratio Lower Upper
 113 100
 111 102.2 82.6 123.8
 192 21.9 18.0 27.0



#36
 1,1-Dichloropropene
 Concen: 3.843 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN051520.D
 Acq: 26 Sep 2018 7:28

Tgt Ion: 75 Resp: 44463
 Ion Ratio Lower Upper
 75 100
 110 8.6 18.1 54.3#
 77 0.0 25.6 38.4#





#38

Carbon Tetrachloride

Concen: 4.701 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.11 min

Lab File: VN051520.D

Acq: 26 Sep 2018 7:28

Instrument :

MSVOA_N

ClientSampleId :

PB113167ZHE#09

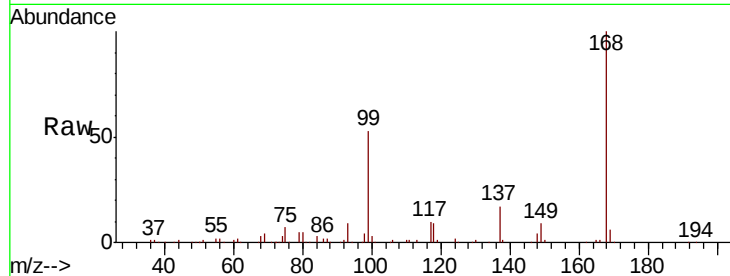
Tot Ion:117 Resp: 56895

Ion Ratio Lower Upper

117 100

119 5.2 76.9 115.3#

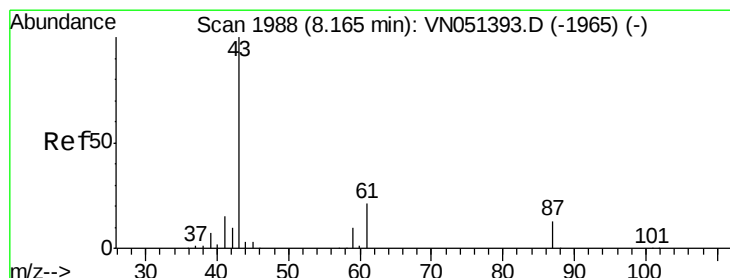
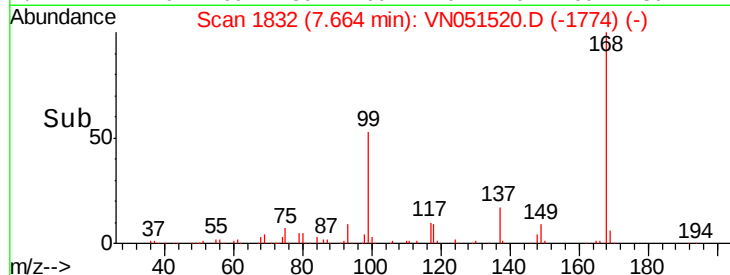
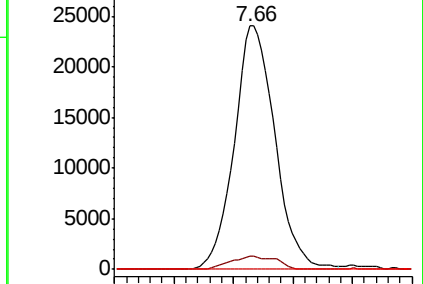
121 0.0 24.6 37.0#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 23.656 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. -0.00 min

Lab File: VN051520.D

Acq: 26 Sep 2018 7:28

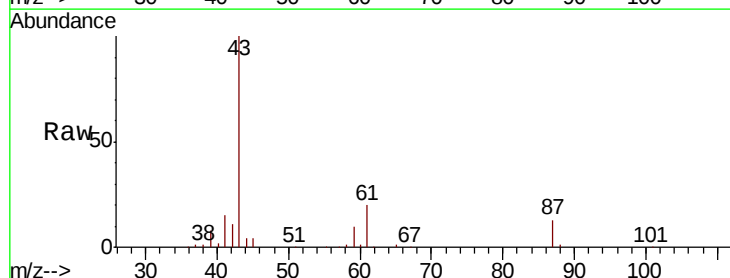
Tgt Ion: 43 Resp: 284589

Ion Ratio Lower Upper

43 100

61 18.5 16.8 25.2

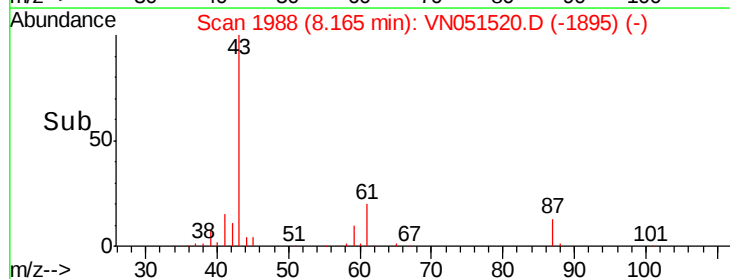
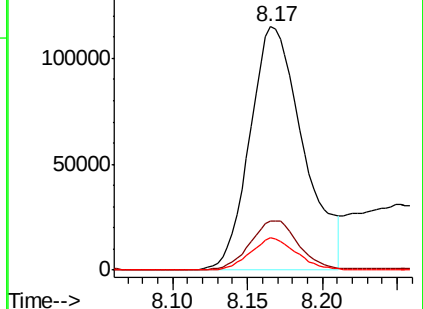
87 11.5 10.7 16.1

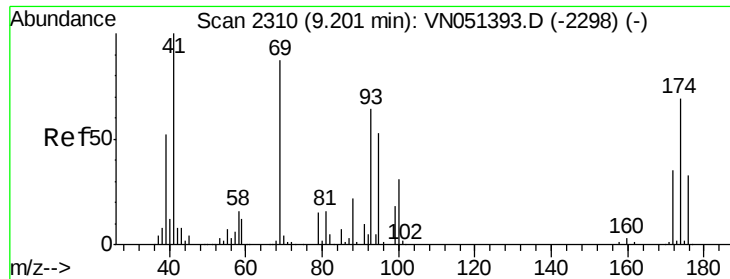


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

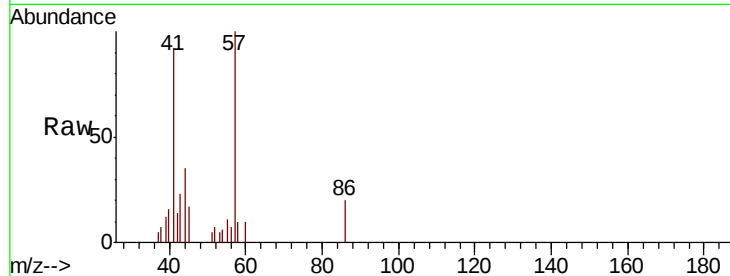




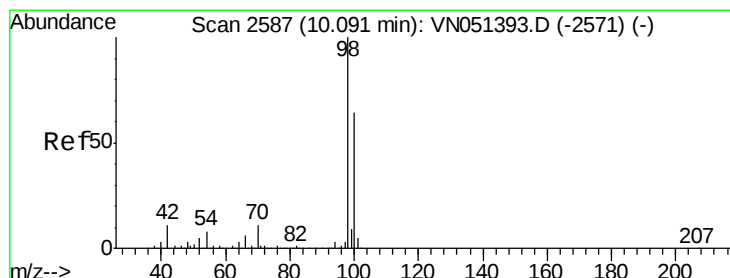
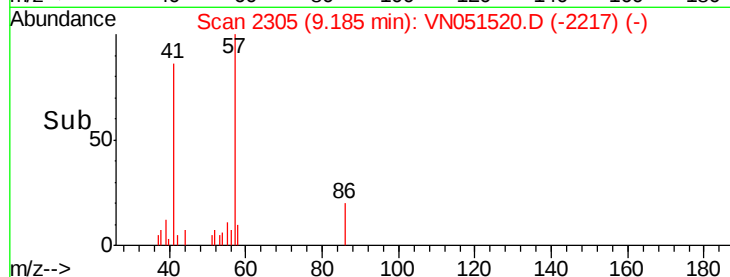
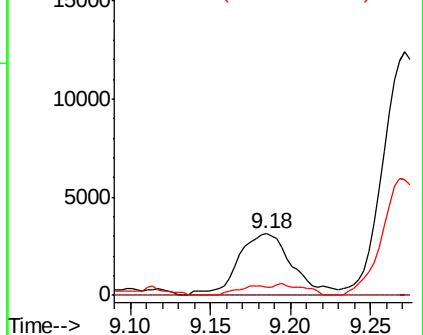
#48
Methyl methacrylate
Concen: 1.217 ug/l
RT: 9.18 min Scan# 2305
Delta R.T. -0.02 min
Lab File: VN051520.D
Acq: 26 Sep 2018 7:28

Instrument :
MSVOA_N
ClientSampleId :
PB113167ZHE#09

Tot Ion: 41 Resp: 7301
Ion Ratio Lower Upper
41 100
69 0.0 70.4 105.6#
39 8.1 43.8 65.8#

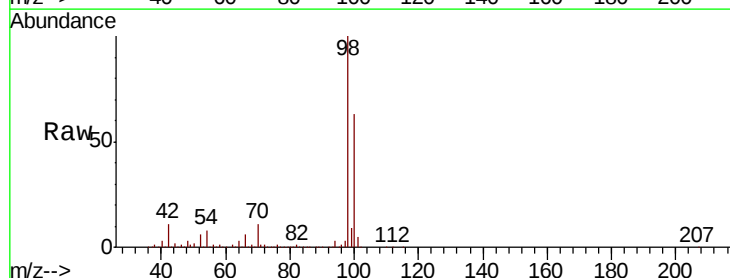


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

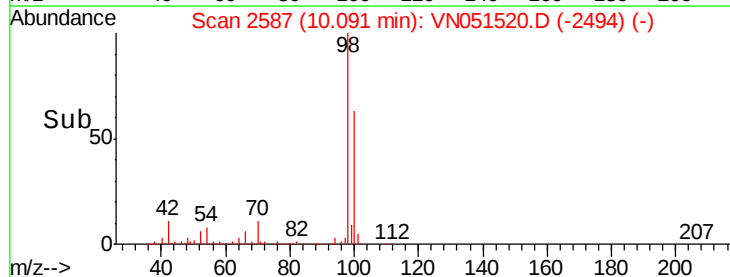
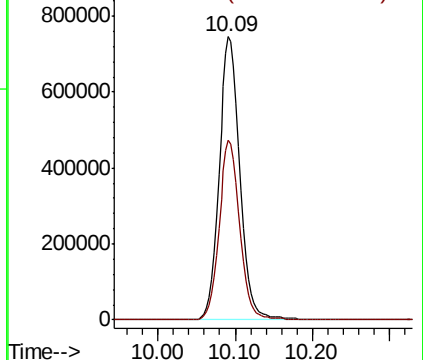


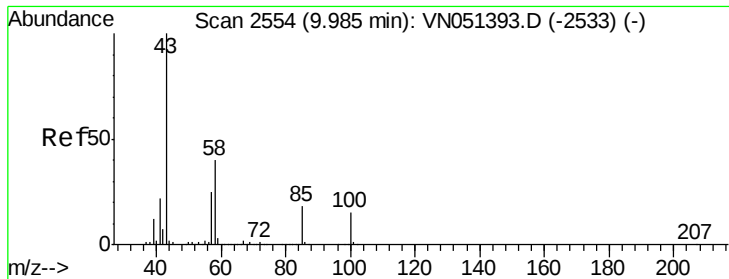
#50
Toluene-d8
Concen: 46.286 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN051520.D
Acq: 26 Sep 2018 7:28

Tgt Ion: 98 Resp: 1392690
Ion Ratio Lower Upper
98 100
100 63.1 50.6 75.8



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0

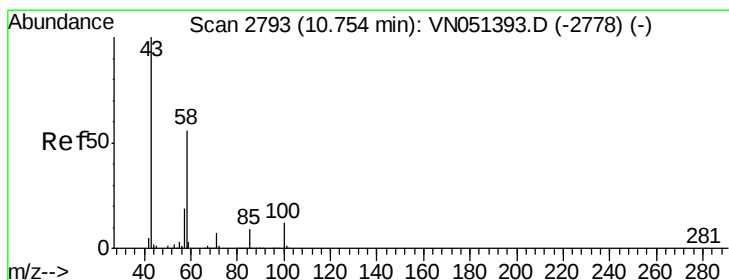
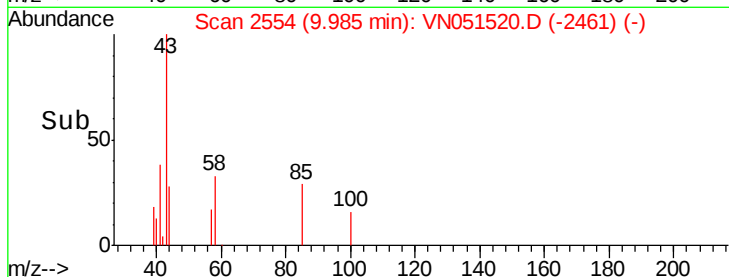
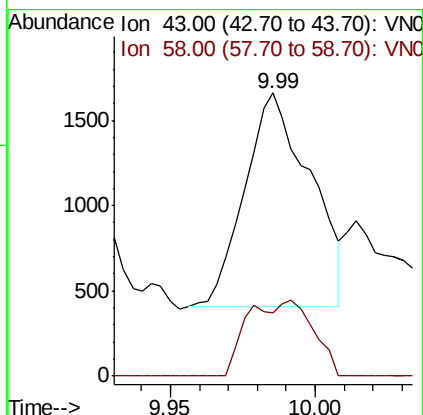
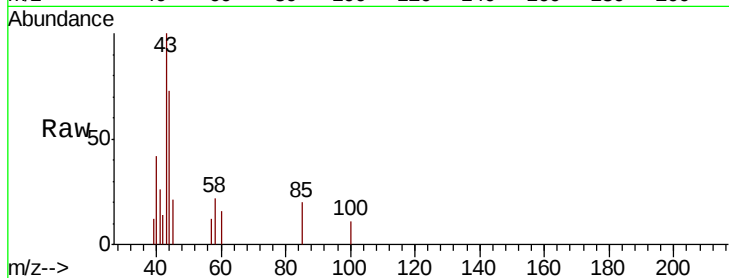




#51
4-Methyl-2-Pentanone
Concen: 0.297 ug/l
RT: 9.99 min Scan# 2554
Delta R.T. -0.00 min
Lab File: VN051520.D
Acq: 26 Sep 2018 7:28

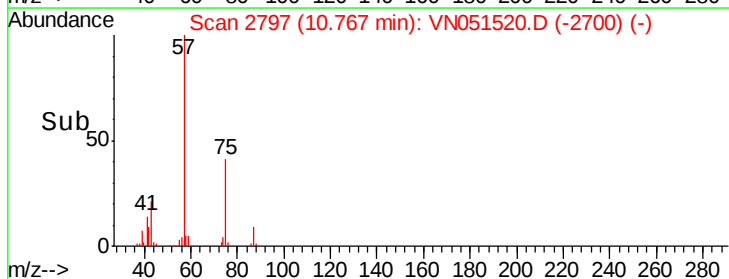
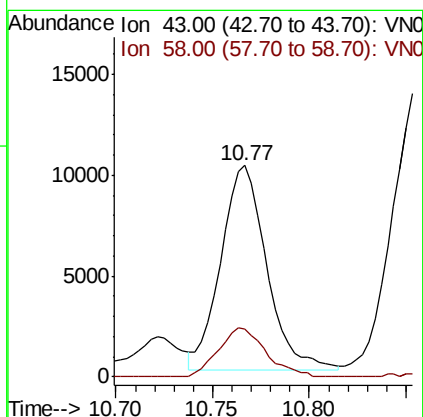
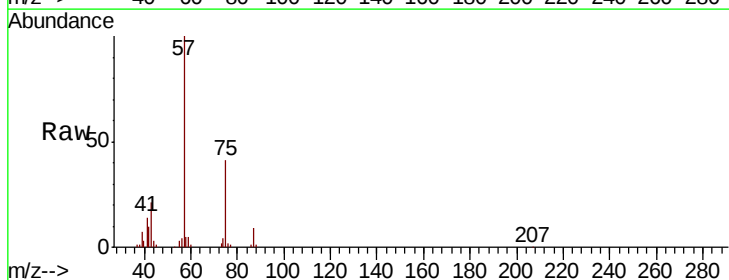
Instrument :
MSVOA_N
ClientSampleId :
PB113167ZHE#09

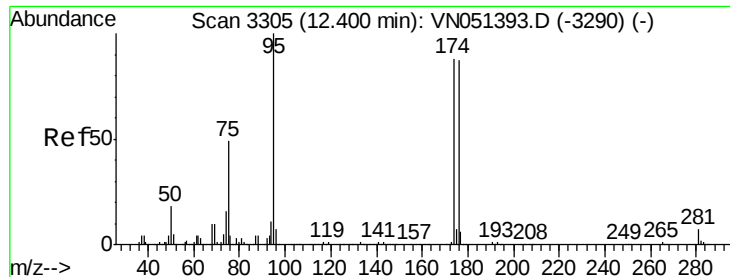
Tot Ion: 43 Resp: 1965
Ion Ratio Lower Upper
43 100
58 35.4 31.5 47.3



#59
2-Hexanone
Concen: 3.896 ug/l
RT: 10.77 min Scan# 2797
Delta R.T. 0.01 min
Lab File: VN051520.D
Acq: 26 Sep 2018 7:28

Tgt Ion: 43 Resp: 16711
Ion Ratio Lower Upper
43 100
58 24.6 27.7 83.0#





#62

4-Bromofluorobenzene

Concen: 37.355 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN051520.D

Acq: 26 Sep 2018 7:28

Instrument :

MSVOA_N

ClientSampleId :

PB113167ZHE#09

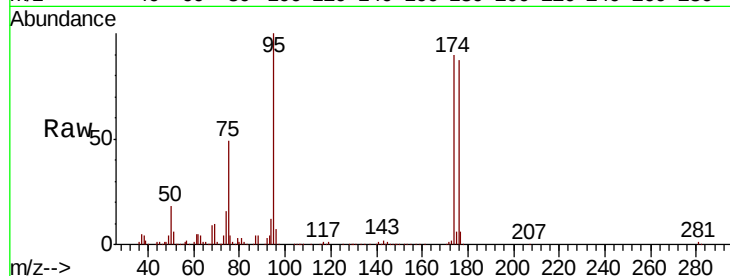
Tot Ion: 95 Resp: 363602

Ion Ratio Lower Upper

95 100

174 89.8 0.0 181.6

176 86.7 0.0 176.4



Abundance Ion 94.90 (94.60 to 95.60): VN051393.D (-3290) (-)

Ion 173.80 (173.50 to 174.50): VN051393.D (-3290) (-)

Ion 175.80 (175.50 to 176.50): VN051393.D (-3290) (-)

12.40

250000

200000

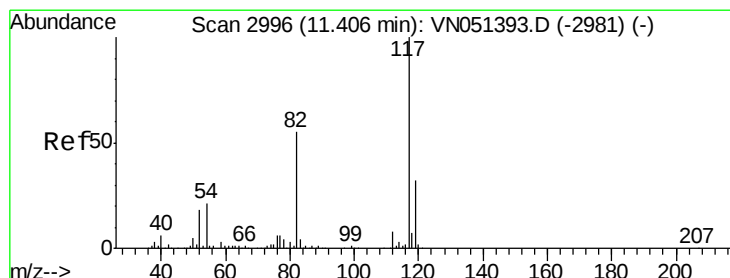
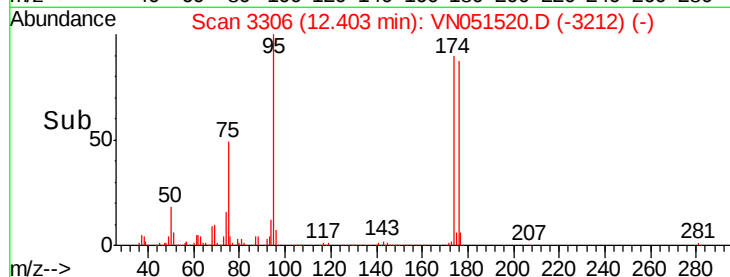
150000

100000

50000

0

Time--> 12.30 12.40 12.50



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN051520.D

Acq: 26 Sep 2018 7:28

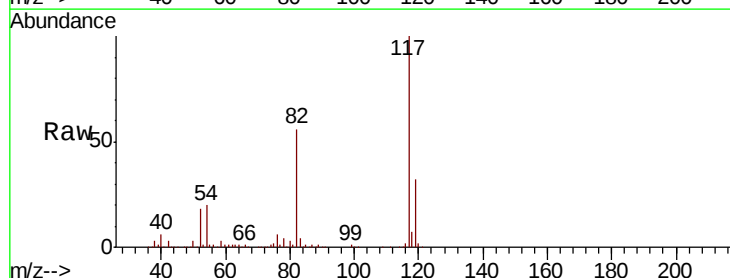
Tgt Ion: 117 Resp: 832001

Ion Ratio Lower Upper

117 100

82 55.6 44.2 66.2

119 31.8 25.9 38.9



Abundance Ion 116.90 (116.60 to 117.60): VN051393.D (-2981) (-)

Ion 82.00 (81.70 to 82.70): VN051393.D (-2981) (-)

Ion 118.90 (118.60 to 119.60): VN051393.D (-2981) (-)

11.41

600000

500000

400000

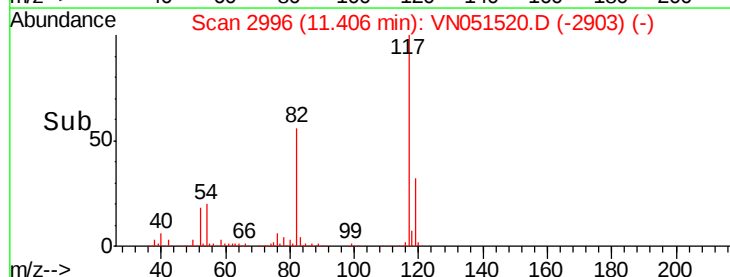
300000

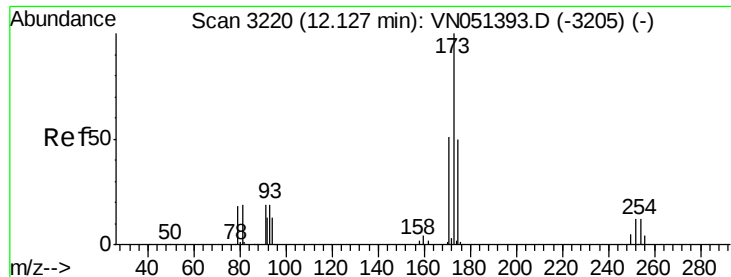
200000

100000

0

Time--> 11.30 11.40 11.50





#71

Bromoform

Concen: 0.796 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.28 min

Lab File: VN051520.D

Acq: 26 Sep 2018 7:28

Instrument :

MSVOA_N

ClientSampleId :

PB113167ZHE#09

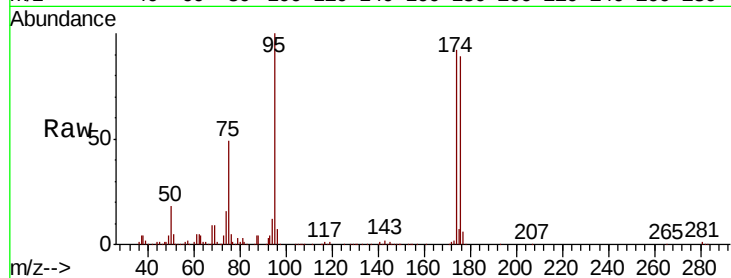
Tot Ion:173 Resp: 4394

Ion Ratio Lower Upper

173 100

175 449.4 24.8 74.3#

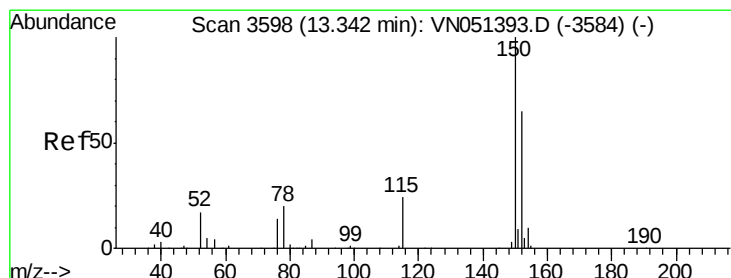
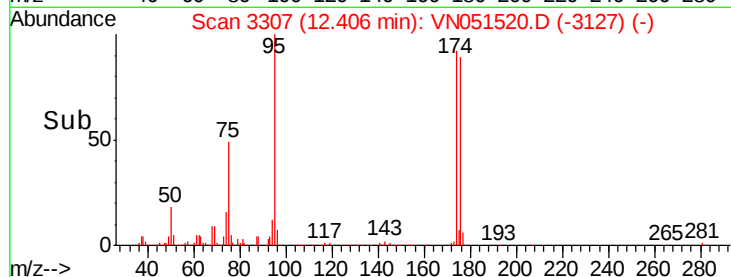
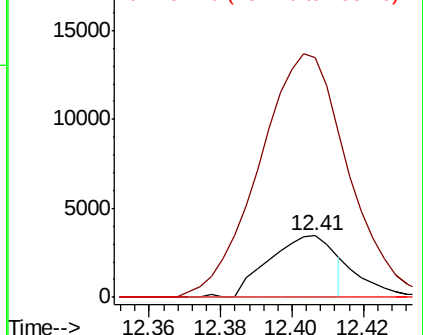
254 0.0 0.2 0.2#



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: VN051520.D

Acq: 26 Sep 2018 7:28

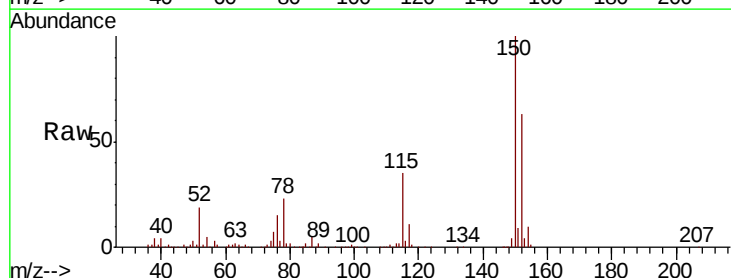
Tgt Ion:152 Resp: 274547

Ion Ratio Lower Upper

152 100

115 56.0 28.3 84.9

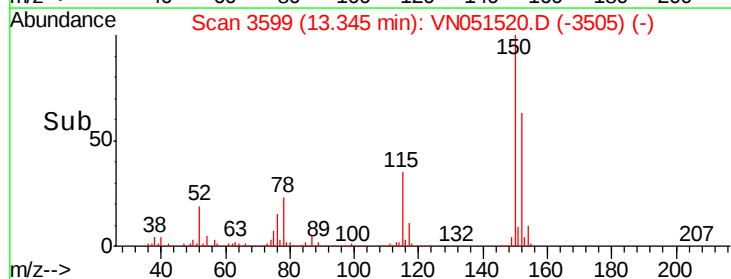
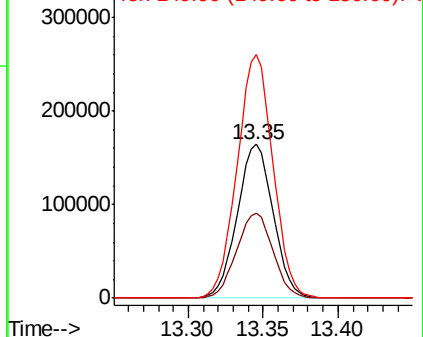
150 158.2 0.0 353.6

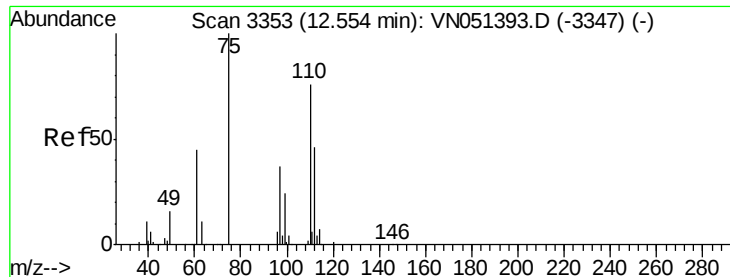


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 39.454 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN051520.D

Acq: 26 Sep 2018 7:28

Instrument :

MSVOA_N

ClientSampleId :

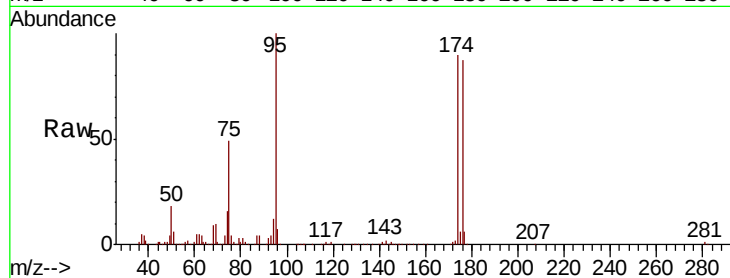
PB113167ZHE#09

Tot Ion: 75 Resp: 179820

Ion Ratio Lower Upper

75 100

77 1.4 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

100000

80000

60000

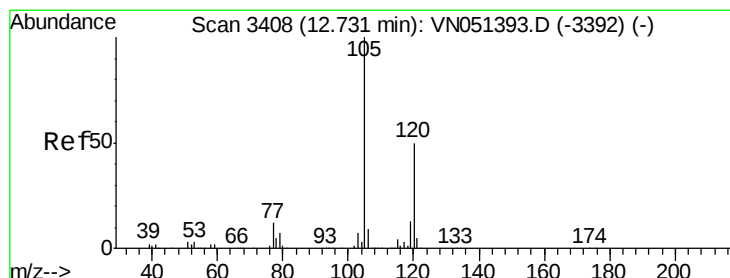
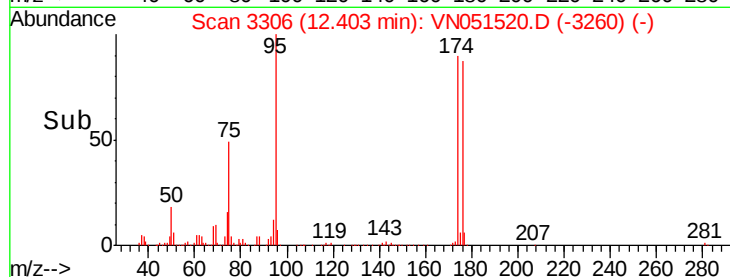
40000

20000

0

12.35 12.40 12.45

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 0.230 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN051520.D

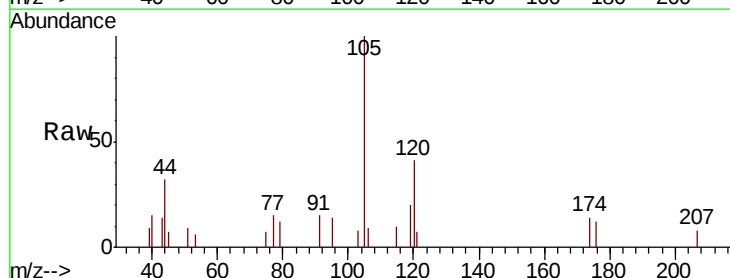
Acq: 26 Sep 2018 7:28

Tgt Ion: 105 Resp: 4338

Ion Ratio Lower Upper

105 100

120 42.3 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

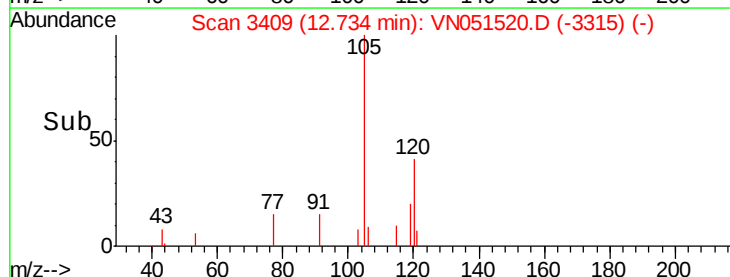
2000

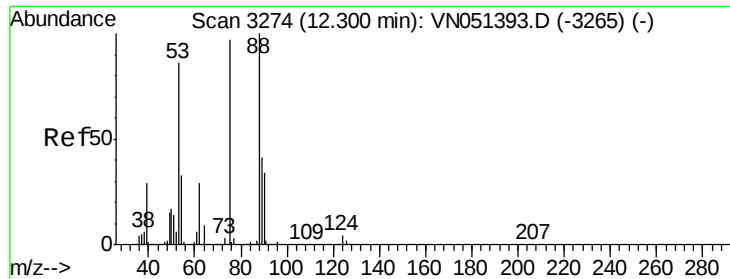
1000

0

12.70 12.75

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 121.320 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN051520.D

Acq: 26 Sep 2018 7:28

Instrument :

MSVOA_N

ClientSampleId :

PB113167ZHE#09

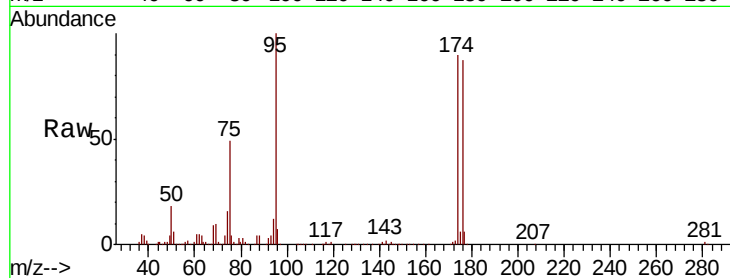
Tot Ion: 75 Resp: 179820

Ion Ratio Lower Upper

75 100

53 0.2 73.9 110.9#

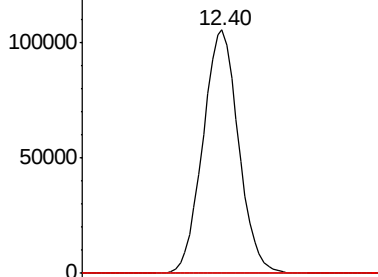
89 0.0 36.7 55.1#



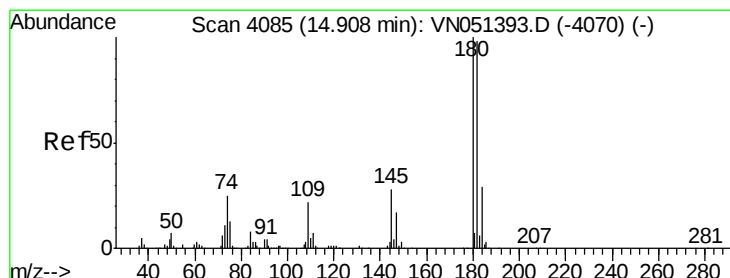
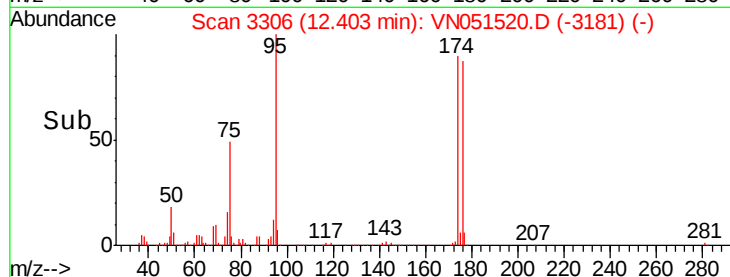
Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



Time-->



#93

1,2,4-Trichlorobenzene

Concen: 6.076 ug/l

RT: 14.91 min Scan# 4085

Delta R.T. 0.00 min

Lab File: VN051520.D

Acq: 26 Sep 2018 7:28

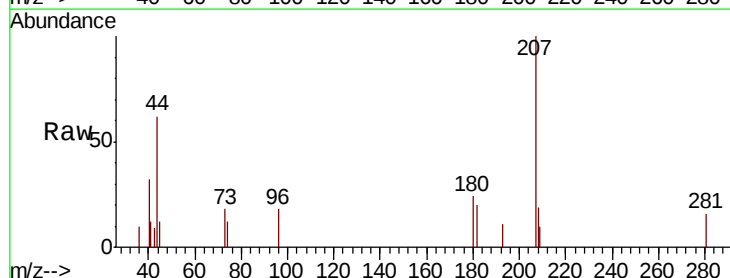
Tgt Ion: 180 Resp: 568

Ion Ratio Lower Upper

180 100

182 54.0 48.5 145.6

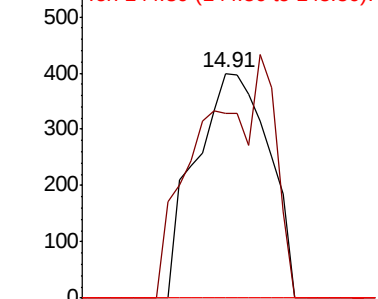
145 0.0 14.1 42.4#



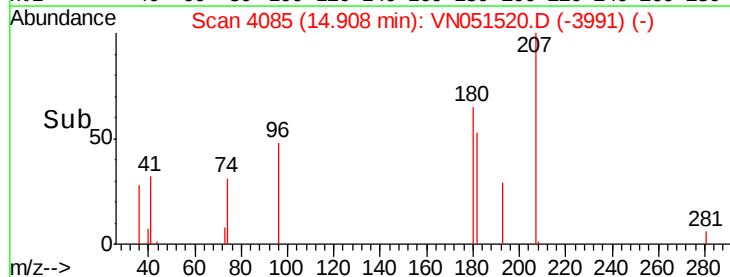
Abundance Ion 179.80 (179.50 to 180.50): V

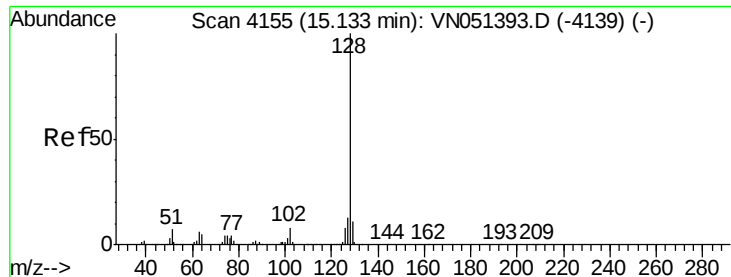
Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



Time-->





#95

Naphthalene

Concen: 8.175 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. -0.00 min

Lab File: VN051520.D

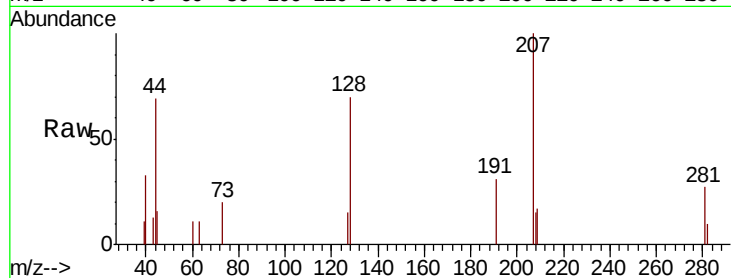
Acq: 26 Sep 2018 7:28

Instrument :

MSVOA_N

ClientSampleId :

PB113167ZHE#09



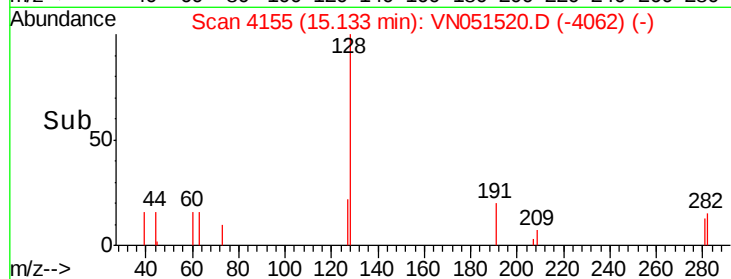
Tot Ion:128 Resp: 1587

Ion Ratio Lower Upper

128 100

127 14.2 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

