

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092718\
 Data File : VN051594.D
 Acq On : 27 Sep 2018 20:08
 Operator : MD\SY
 Sample : PB113263ZHE#06
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 59 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB113263ZHE#06

Quant Time: Sep 28 01:53:29 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	617982	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1024427	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	842337	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	285940	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	453700	58.61	ug/l	0.00
Spiked Amount			Recovery	=	117.22%	
35) Dibromofluoromethane	7.59	113	395044	48.22	ug/l	0.00
Spiked Amount			Recovery	=	96.44%	
50) Toluene-d8	10.09	98	1418465	45.98	ug/l	0.00
Spiked Amount			Recovery	=	91.96%	
62) 4-Bromofluorobenzene	12.40	95	367680	36.84	ug/l	0.00
Spiked Amount			Recovery	=	73.68%	

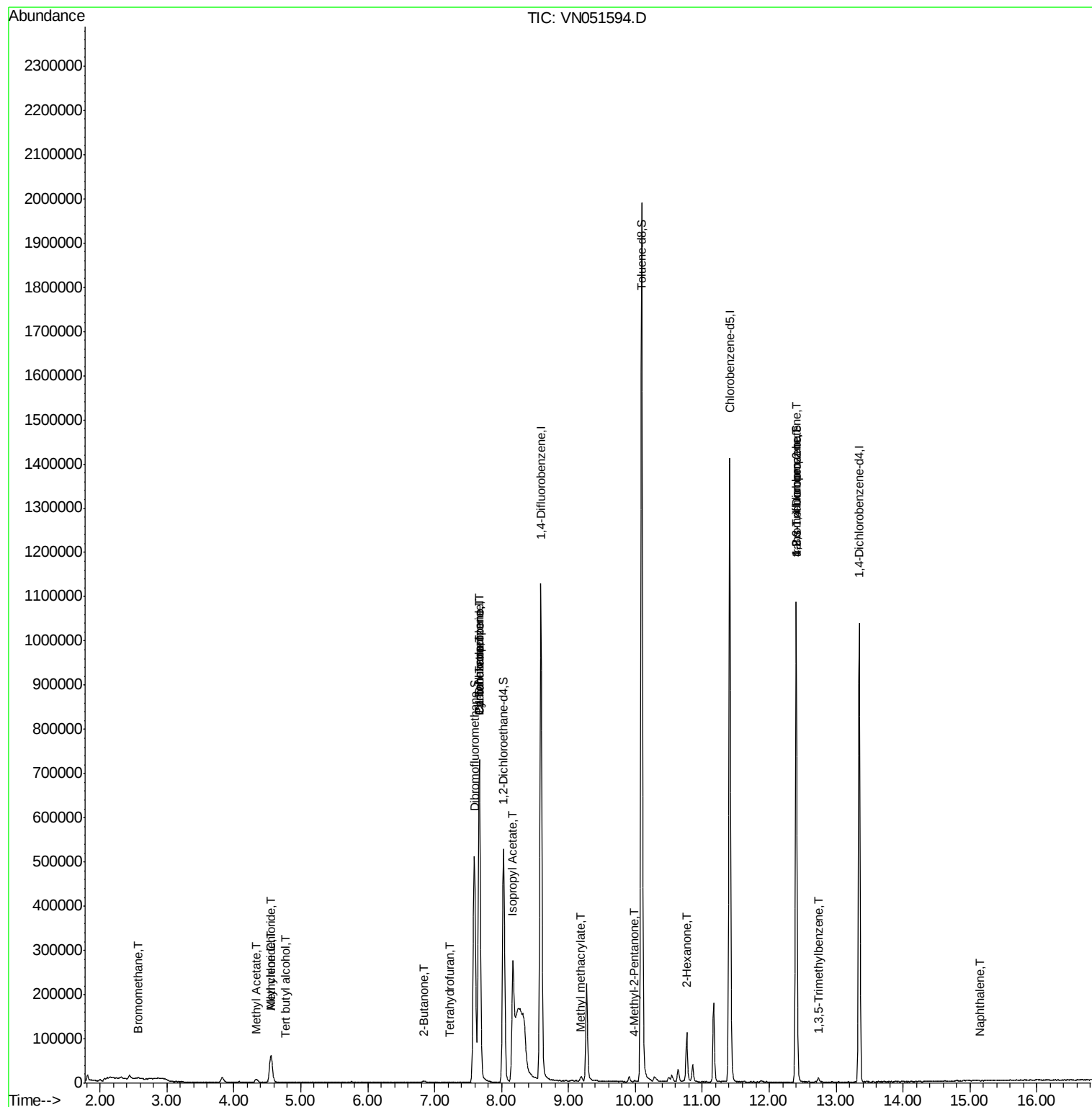
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.57	94	1131	0.245	ug/l #	61
11) Tert butyl alcohol	4.78	59	116	0.266	ug/l #	78
14) Allyl chloride	4.56	41	2396	0.208	ug/l #	26
16) Acetone	3.82	43	21088	Below Cal	#	88
18) Methyl Acetate	4.34	43	14304	2.426	ug/l	95
20) Methylene Chloride	4.56	84	46151	6.025	ug/l	98
25) 2-Butanone	6.85	43	3893	1.469	ug/l #	81
29) Tetrahydrofuran	7.22	42	642	0.382	ug/l #	70
31) Cyclohexane	7.67	56	12572	1.031	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	43768	3.689	ug/l #	47
38) Carbon Tetrachloride	7.67	117	58504	4.715	ug/l #	17
43) Isopropyl Acetate	8.17	43	346993	28.133	ug/l #	90
48) Methyl methacrylate	9.18	41	5808	0.945	ug/l #	24
51) 4-Methyl-2-Pentanone	9.99	43	1877	0.277	ug/l #	81
59) 2-Hexanone	10.76	43	16776	3.815	ug/l #	60
76) 1,2,3-Trichloropropane	12.40	75	180473	38.020	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.74	105	4055	0.206	ug/l #	28
81) trans-1,4-Dichloro-2-buten	12.40	75	180473	116.909	ug/l #	12
95) Naphthalene	15.14	128	206	8.061	ug/l #	69

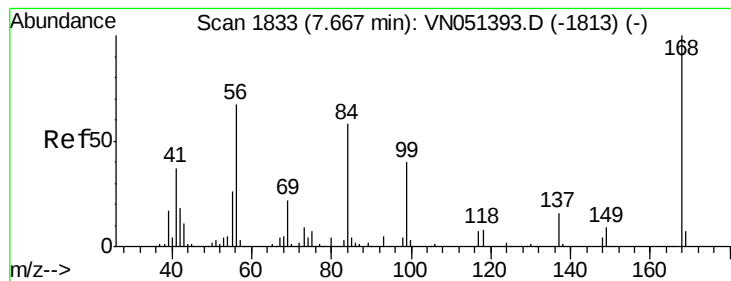
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.00 min

Lab File: VN051594.D

Acq: 27 Sep 2018 20:08

Instrument :

MSVOA_N

ClientSampleId :

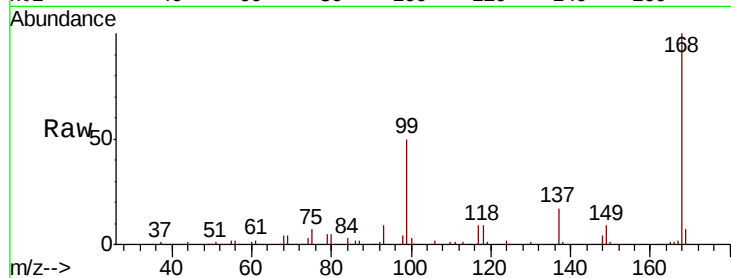
PB113263ZHE#06

Tot Ion:168 Resp: 617982

Ion Ratio Lower Upper

168 100

99 50.2 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

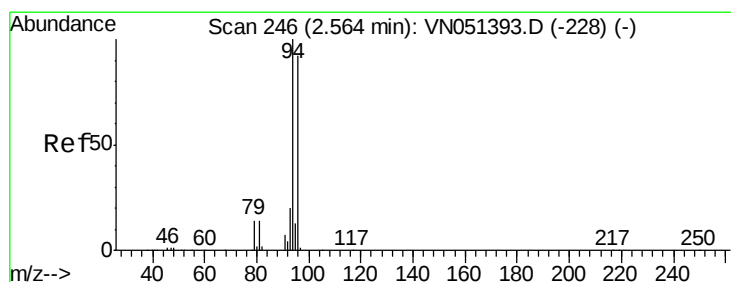
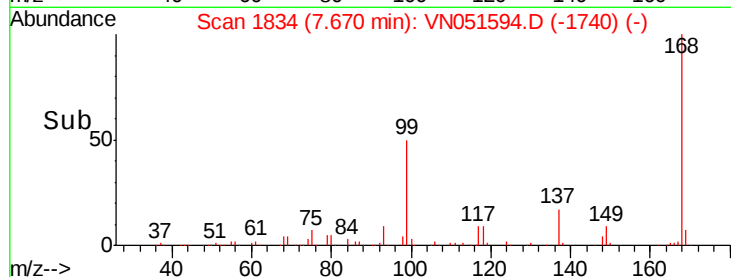
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: 0.245 ug/l

RT: 2.57 min Scan# 249

Delta R.T. 0.01 min

Lab File: VN051594.D

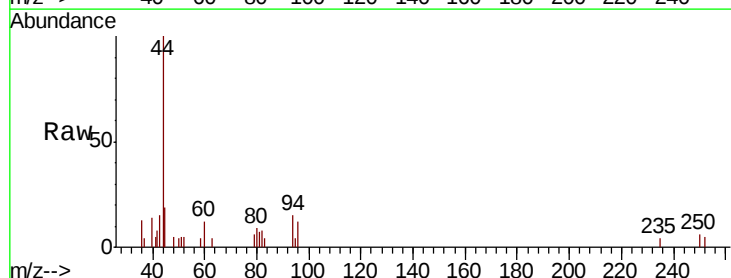
Acq: 27 Sep 2018 20:08

Tgt Ion: 94 Resp: 1131

Ion Ratio Lower Upper

94 100

96 54.5 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

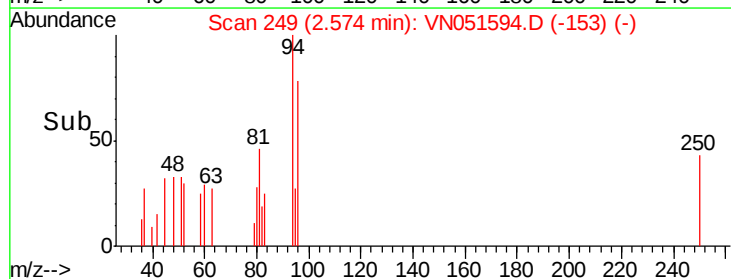
600

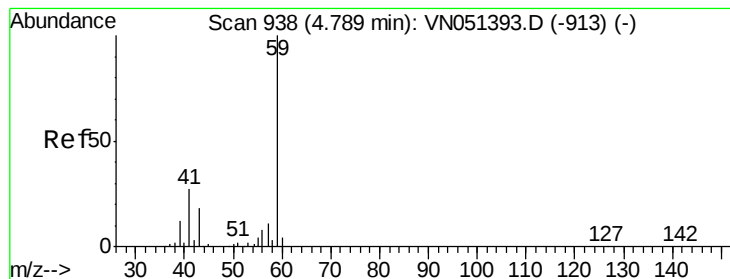
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200

0

Time-->



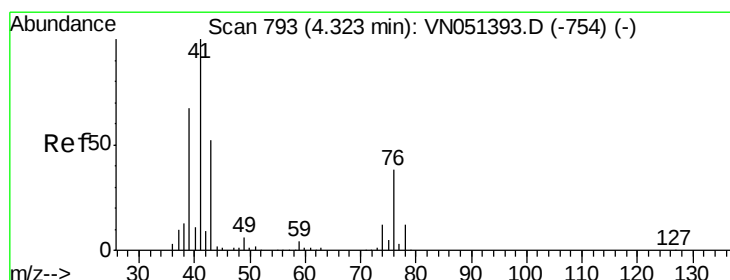
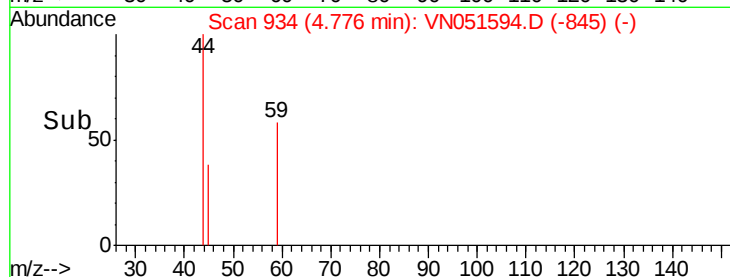
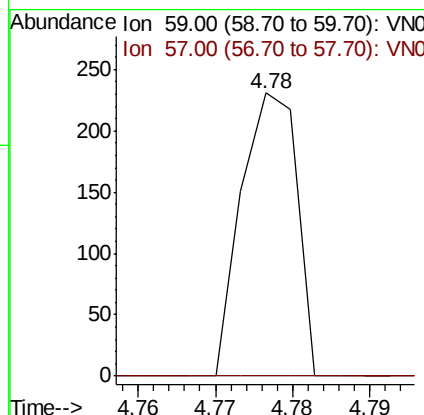
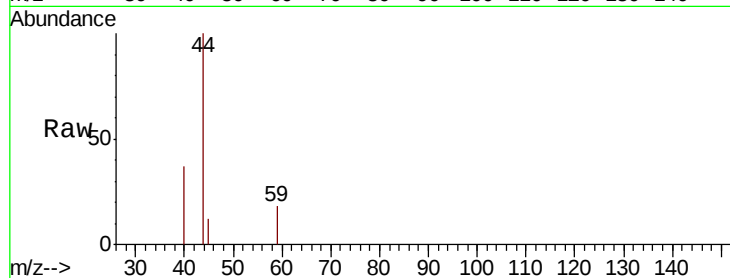


#11

Tert butyl alcohol
 Concen: 0.266 ug/l
 RT: 4.78 min Scan# 934
 Delta R.T. -0.01 min
 Lab File: VN051594.D
 Acq: 27 Sep 2018 20:08

Instrument :
 MSVOA_N
 ClientSampleId :
 PB113263ZHE#06

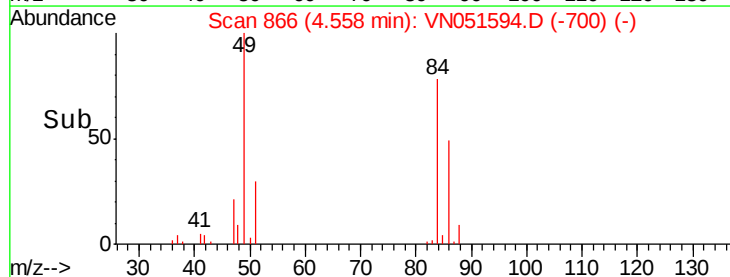
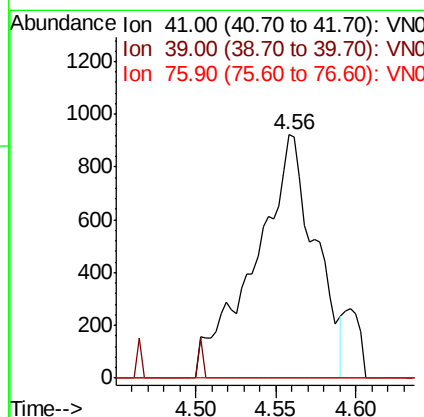
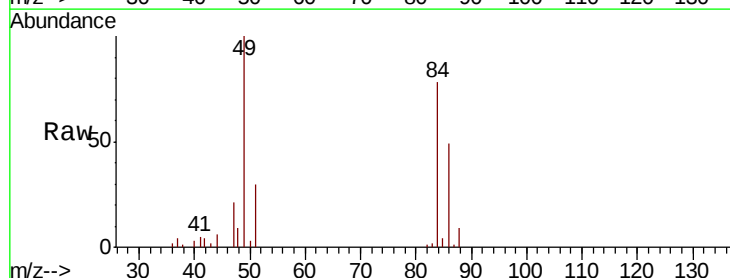
Tot Ion: 59 Resp: 116
 Ion Ratio Lower Upper
 59 100
 57 0.0 6.2 9.2#

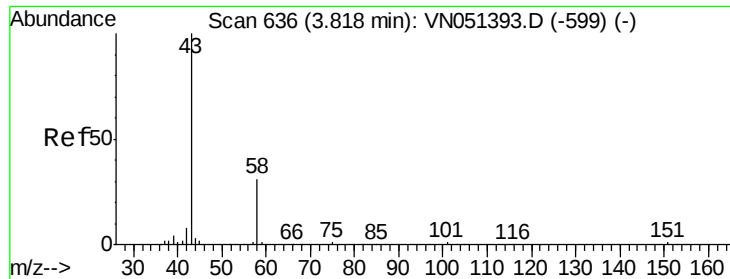


#14

Allyl chloride
 Concen: 0.208 ug/l
 RT: 4.56 min Scan# 866
 Delta R.T. 0.23 min
 Lab File: VN051594.D
 Acq: 27 Sep 2018 20:08

Tgt Ion: 41 Resp: 2396
 Ion Ratio Lower Upper
 41 100
 39 0.0 51.4 77.2#
 76 0.0 28.1 42.1#





#16

Acetone

Concen: Below Cal

RT: 3.82 min Scan# 638

Delta R.T. 0.01 min

Lab File: VN051594.D

Acq: 27 Sep 2018 20:08

Instrument :

MSVOA_N

ClientSampleId :

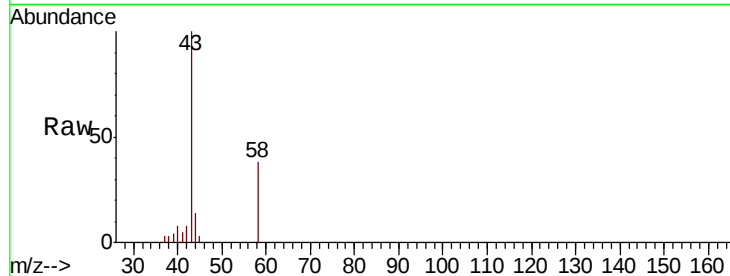
PB113263ZHE#06

Tot Ion: 43 Resp: 21088

Ion Ratio Lower Upper

43 100

58 37.9 25.0 37.4#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

8000

6000

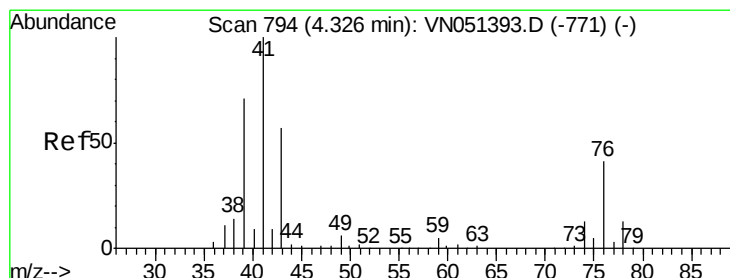
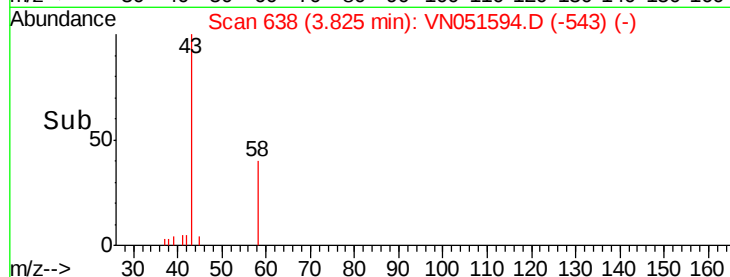
4000

2000

0

3.70 3.80 3.90

Time-->



#18

Methyl Acetate

Concen: 2.426 ug/l

RT: 4.34 min Scan# 797

Delta R.T. 0.01 min

Lab File: VN051594.D

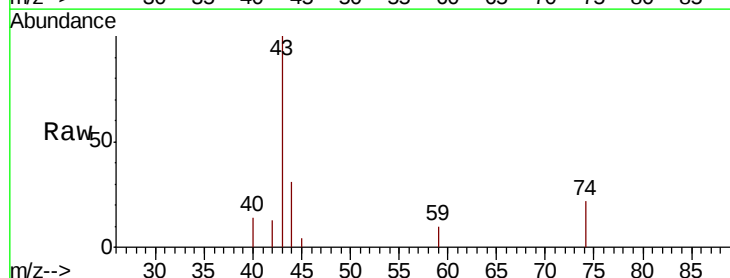
Acq: 27 Sep 2018 20:08

Tgt Ion: 43 Resp: 14304

Ion Ratio Lower Upper

43 100

74 20.9 18.8 28.2



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

5000

4000

3000

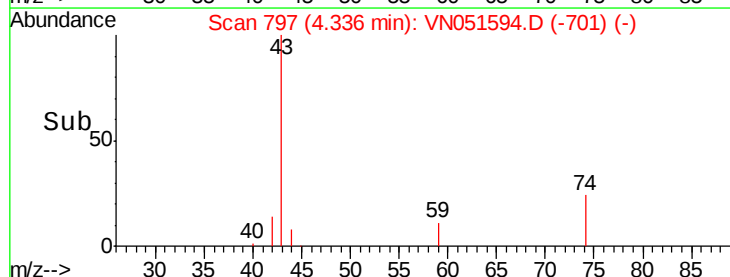
2000

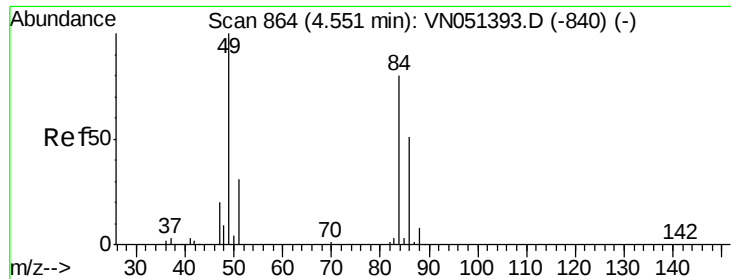
1000

0

4.25 4.30 4.35 4.40

Time-->

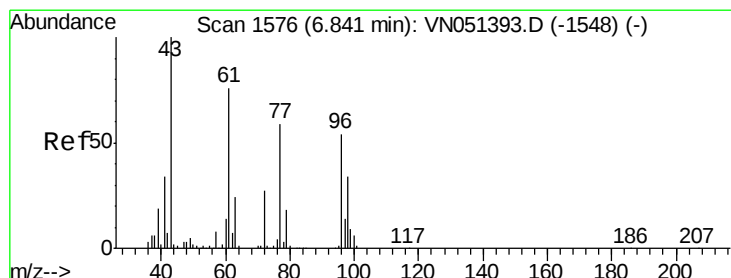
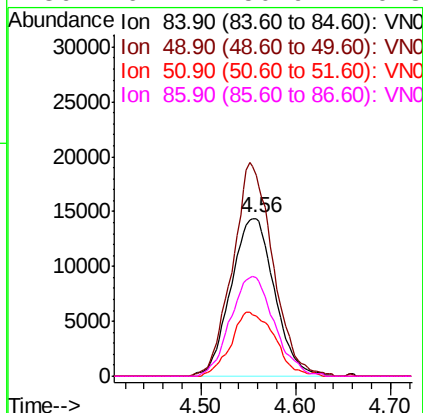
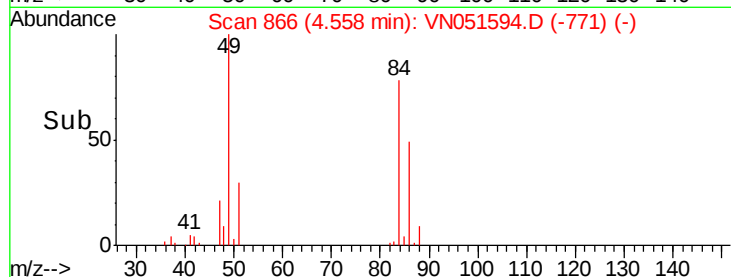
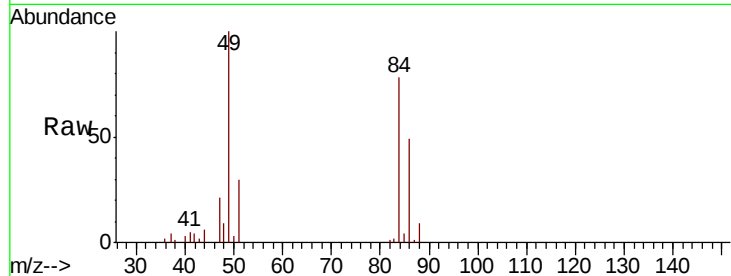




#20
Methvlene Chloride
Concen: 6.025 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.01 min
Lab File: VN051594.D
Acq: 27 Sep 2018 20:08

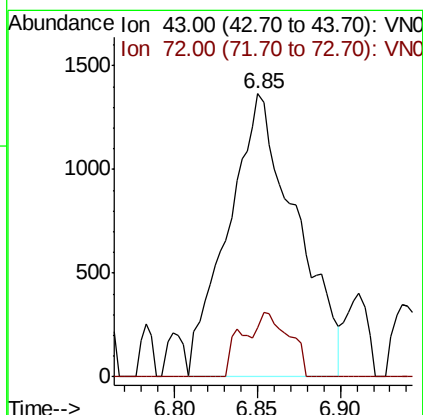
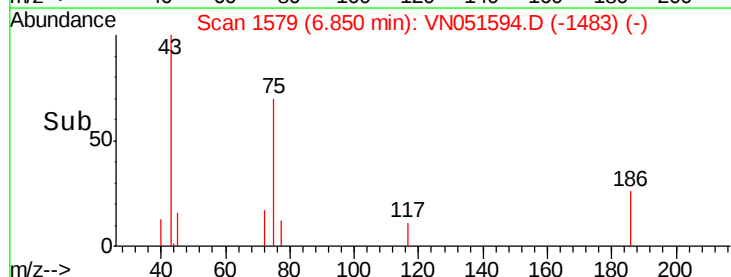
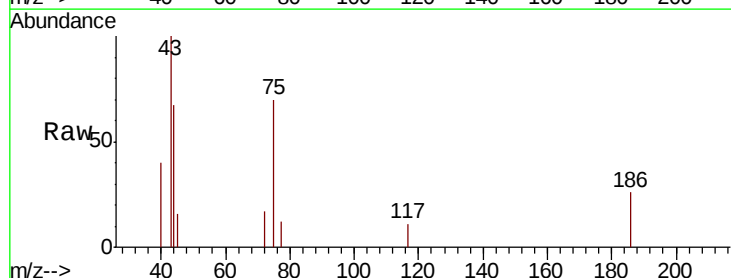
Instrument :
MSVOA_N
ClientSampleId :
PB113263ZHE#06

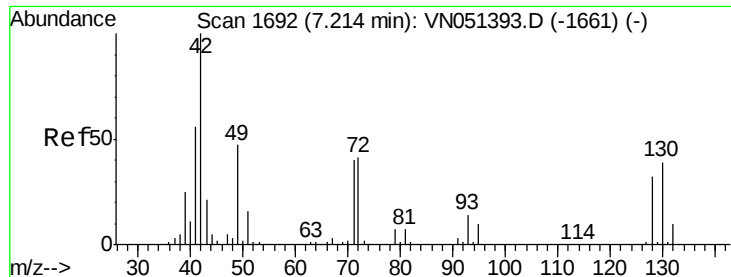
Tot Ion: 84 Resp: 46151
Ion Ratio Lower Upper
84 100
49 127.4 99.9 149.9
51 38.2 31.4 47.2
86 62.7 50.9 76.3



#25
2-Butanone
Concen: 1.469 ug/l
RT: 6.85 min Scan# 1579
Delta R.T. 0.01 min
Lab File: VN051594.D
Acq: 27 Sep 2018 20:08

Tgt Ion: 43 Resp: 3893
Ion Ratio Lower Upper
43 100
72 17.3 21.8 32.6#





#29

Tetrahydrofuran

Concen: 0.382 ug/l

RT: 7.22 min Scan# 1693

Delta R.T. 0.00 min

Lab File: VN051594.D

Acq: 27 Sep 2018 20:08

Instrument :

MSVOA_N

ClientSampleId :

PB113263ZHE#06

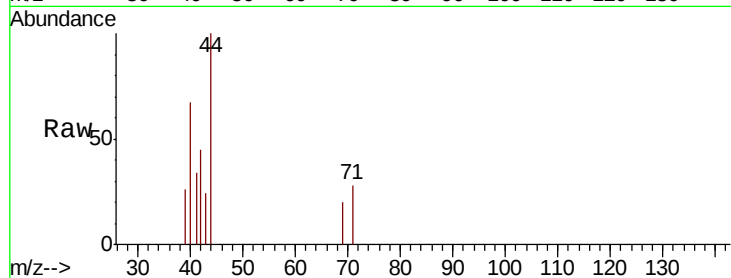
Tot Ion: 42 Resp: 642

Ion Ratio Lower Upper

42 100

72 10.4 34.3 51.5#

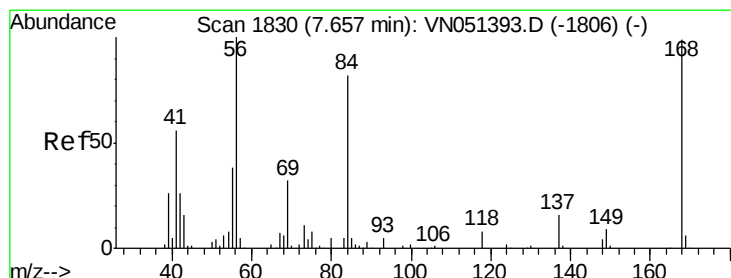
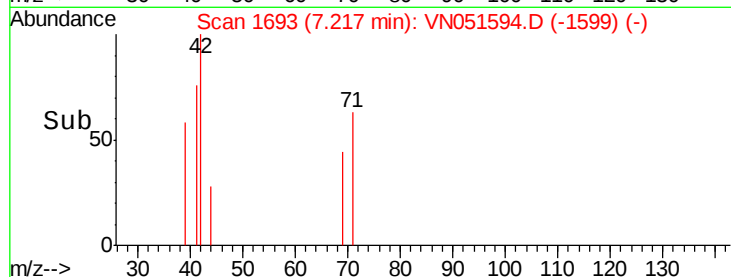
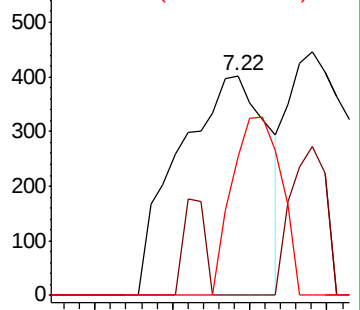
71 44.9 32.2 48.4



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0



#31

Cyclohexane

Concen: 1.031 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.01 min

Lab File: VN051594.D

Acq: 27 Sep 2018 20:08

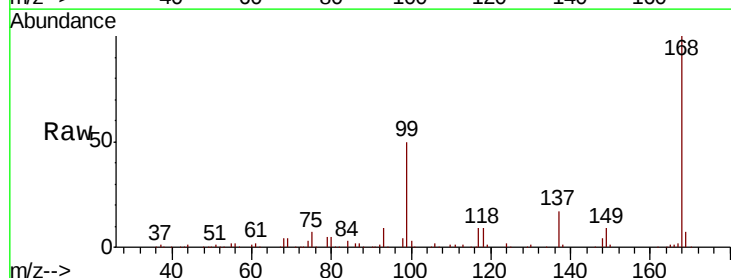
Tgt Ion: 56 Resp: 12572

Ion Ratio Lower Upper

56 100

69 191.3 25.8 38.6#

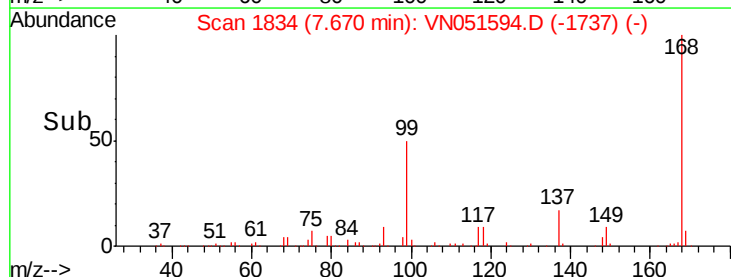
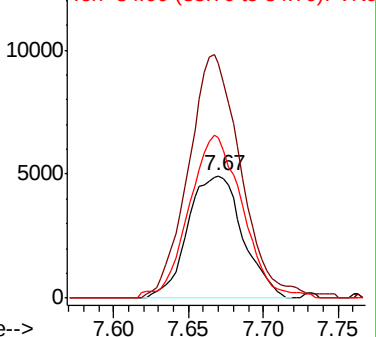
84 127.1 66.0 99.0#

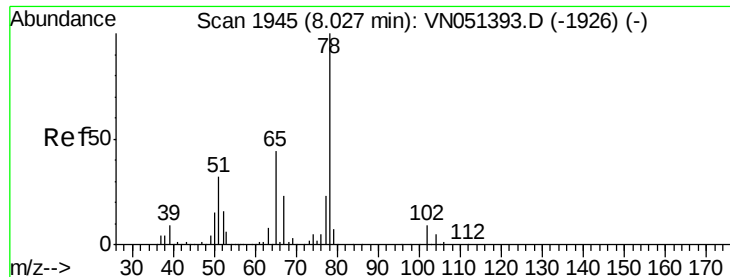


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0





#33

1,2-Dichloroethane-d4

Concen: 58.607 ug/l

RT: 8.03 min Scan# 1946

Delta R.T. 0.00 min

Lab File: VN051594.D

Acq: 27 Sep 2018 20:08

Instrument :

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ClientSampleId :

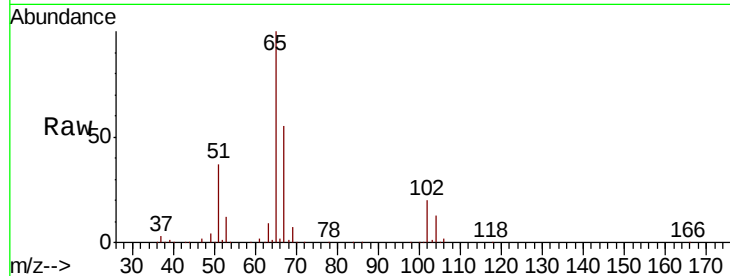
PB113263ZHE#06

Tot Ion: 65 Resp: 453700

Ion Ratio Lower Upper

65 100

67 53.6 0.0 107.8



Abundance Ion 64.90 (64.60 to 65.60): VN051393.D (-1926) (-)

Ion 66.90 (66.60 to 67.60): VN051393.D (-1926) (-)

8.03

200000

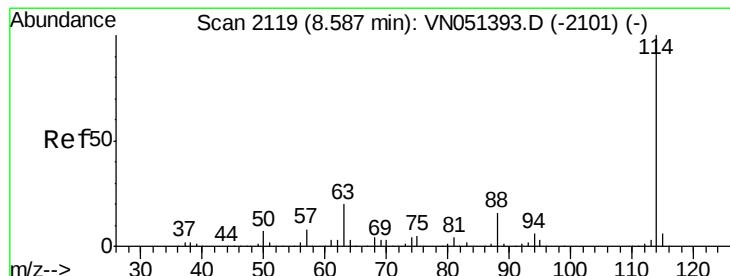
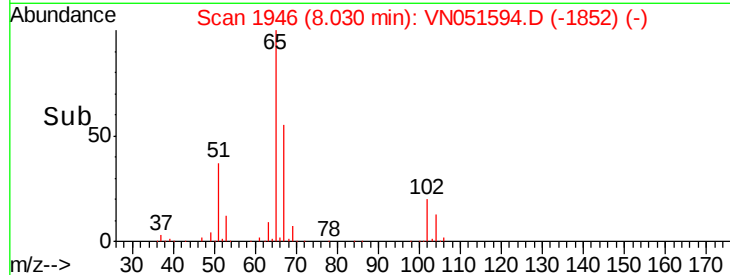
150000

100000

50000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. -0.00 min

Lab File: VN051594.D

Acq: 27 Sep 2018 20:08

Tgt Ion: 114 Resp: 1024427

Ion Ratio Lower Upper

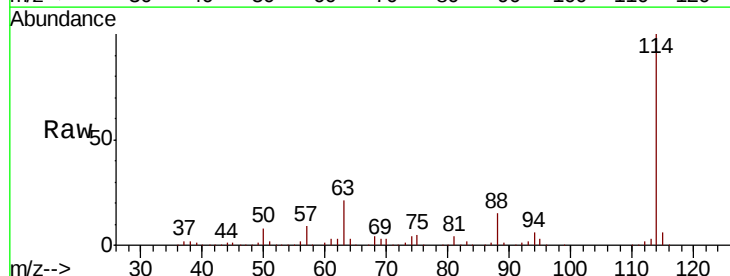
114 100

63 21.1

0.0 40.2

88 15.4

0.0 31.4



Abundance Ion 113.90 (113.60 to 114.60): VN051393.D (-2101) (-)

Ion 63.00 (62.70 to 63.70): VN051393.D (-2101) (-)

Ion 87.90 (87.60 to 88.60): VN051393.D (-2101) (-)

8.59

600000

500000

400000

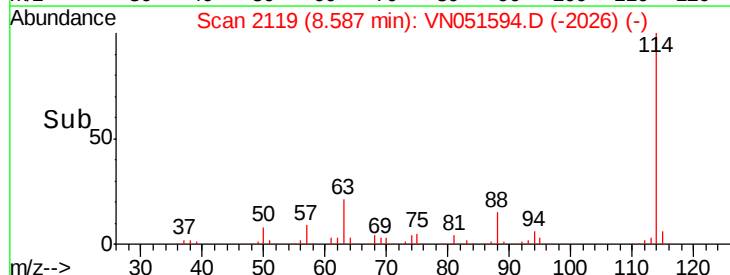
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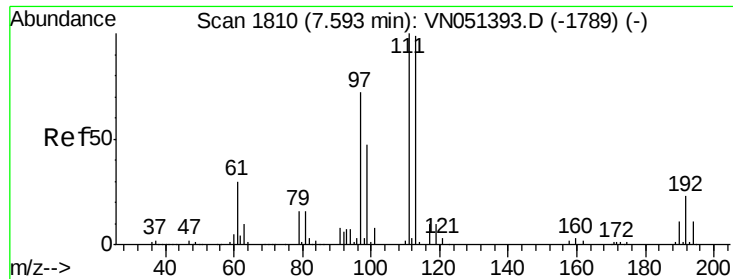
200000

100000

0

Time-->

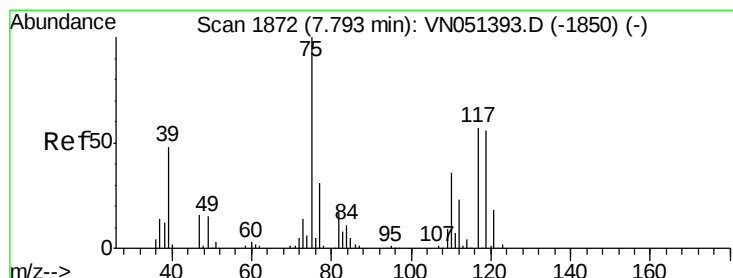
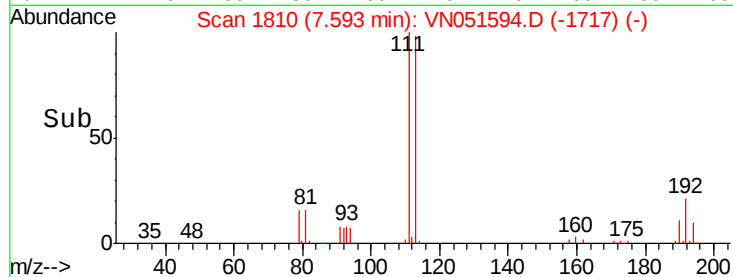
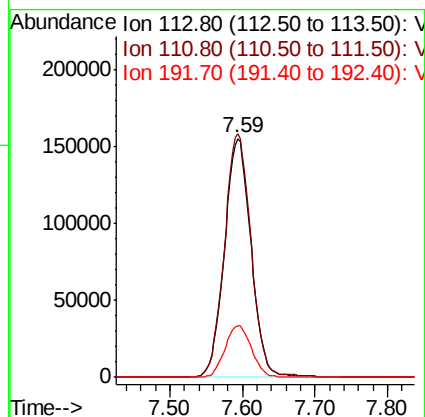
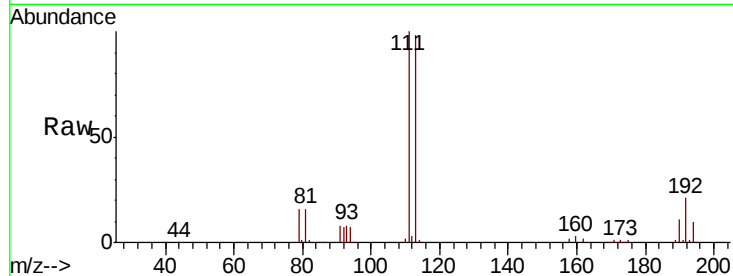




#35
 Dibromofluoromethane
 Concen: 48.224 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. -0.00 min
 Lab File: VN051594.D
 Acq: 27 Sep 2018 20:08

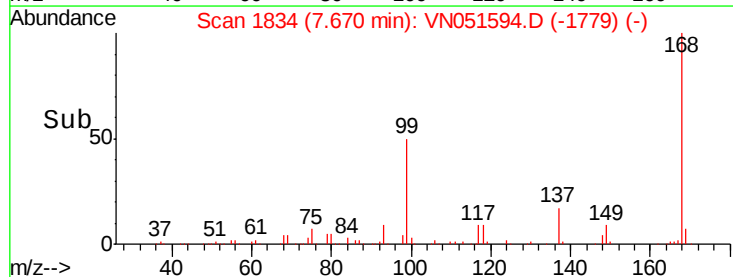
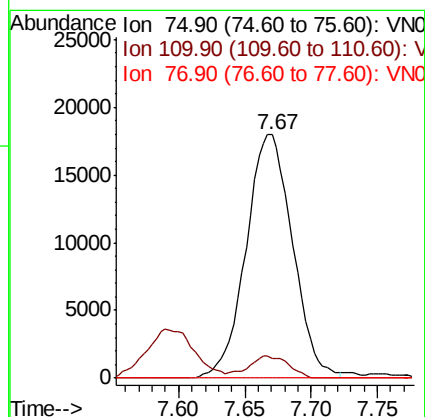
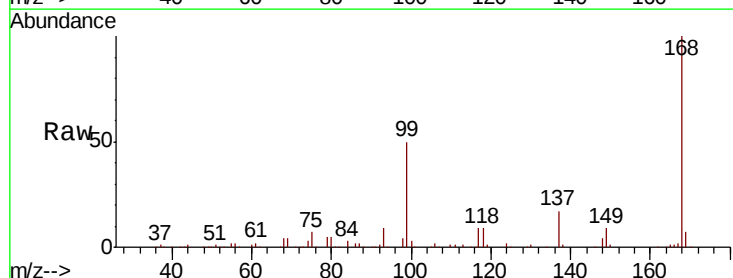
Instrument :
 MSVOA_N
 ClientSampleId :
 PB113263ZHE#06

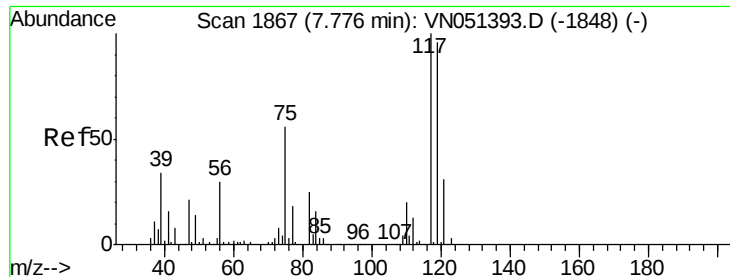
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.4	82.6	123.8
192	21.6	18.0	27.0



#36
 1,1-Dichloropropene
 Concen: 3.689 ug/l
 RT: 7.67 min Scan# 1834
 Delta R.T. -0.12 min
 Lab File: VN051594.D
 Acq: 27 Sep 2018 20:08

Tgt Ion	Ratio	Lower	Upper
75	100		
110	7.7	18.1	54.3#
77	0.0	25.6	38.4#





#38

Carbon Tetrachloride

Concen: 4.715 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN051594.D

Acq: 27 Sep 2018 20:08

Instrument :

MSVOA_N

ClientSampleId :

PB113263ZHE#06

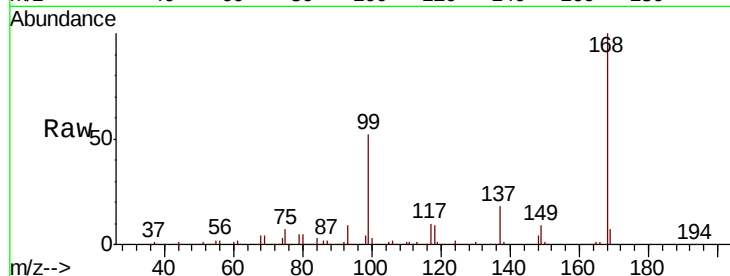
Tot Ion:117 Resp: 58504

Ion Ratio Lower Upper

117 100

119 6.7 76.9 115.3#

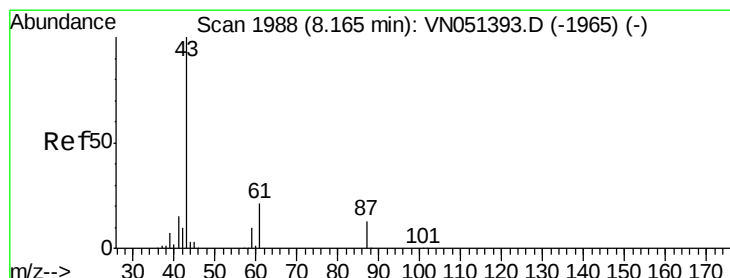
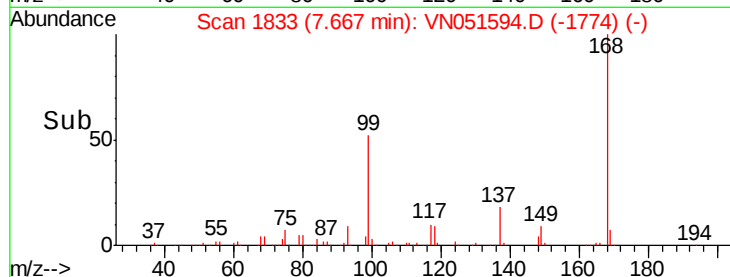
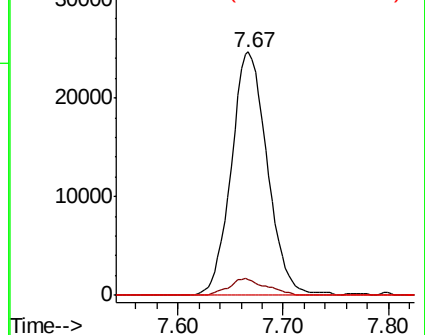
121 0.0 24.6 37.0#



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: 28.133 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.00 min

Lab File: VN051594.D

Acq: 27 Sep 2018 20:08

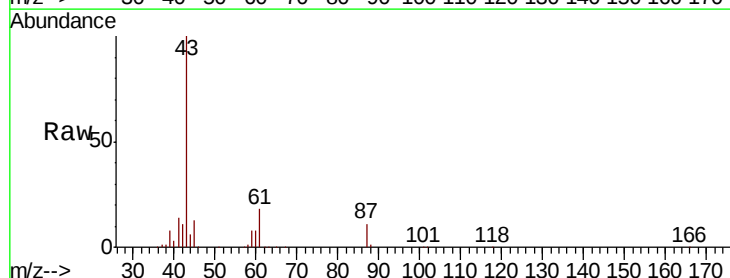
Tgt Ion: 43 Resp: 346993

Ion Ratio Lower Upper

43 100

61 16.0 16.8 25.2#

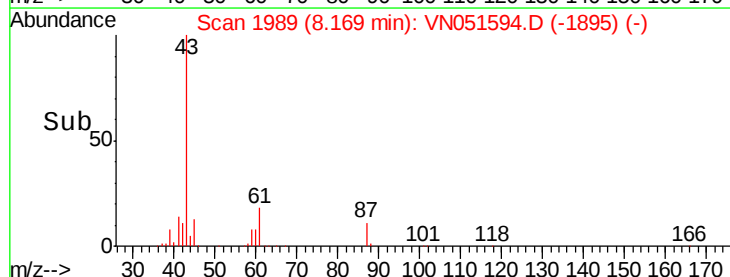
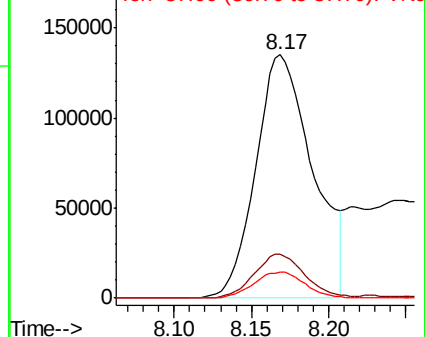
87 9.7 10.7 16.1#

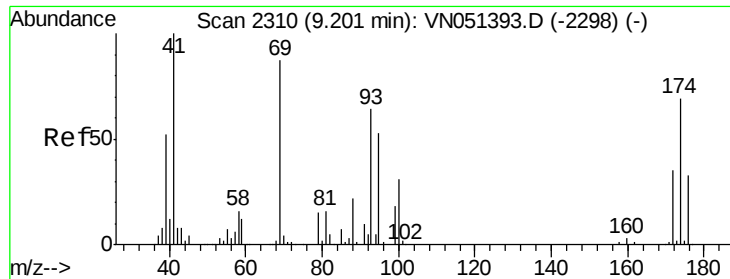


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

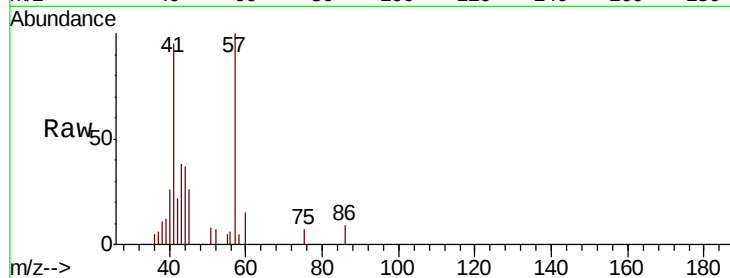




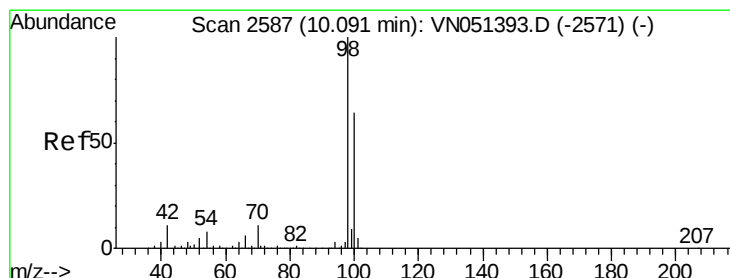
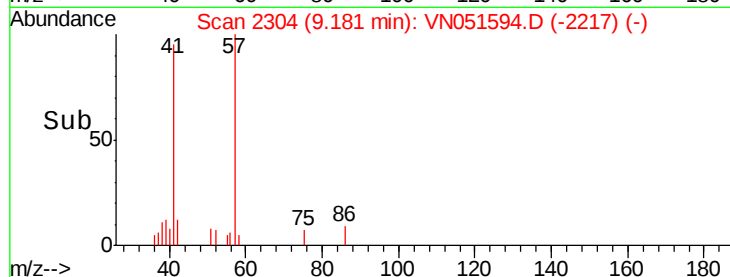
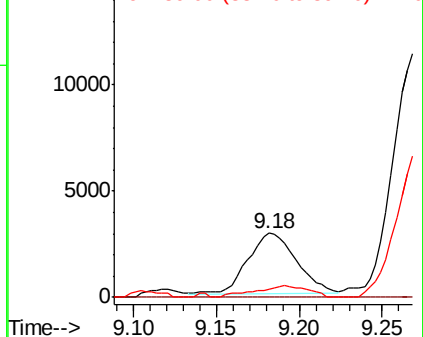
#48
Methyl methacrylate
Concen: 0.945 ug/l
RT: 9.18 min Scan# 2304
Delta R.T. -0.02 min
Lab File: VN051594.D
Acq: 27 Sep 2018 20:08

Instrument :
MSVOA_N
ClientSampleId :
PB113263ZHE#06

Tot Ion: 41 Resp: 5808
Ion Ratio Lower Upper
41 100
69 0.0 70.4 105.6#
39 21.3 43.8 65.8#

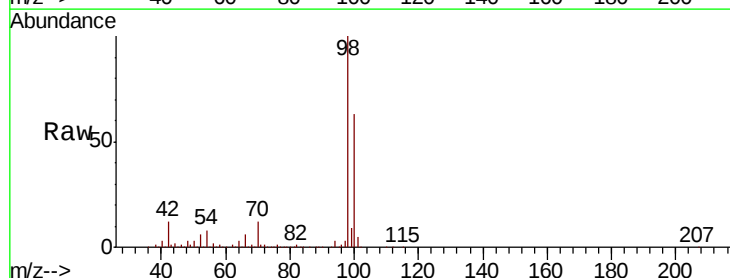


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

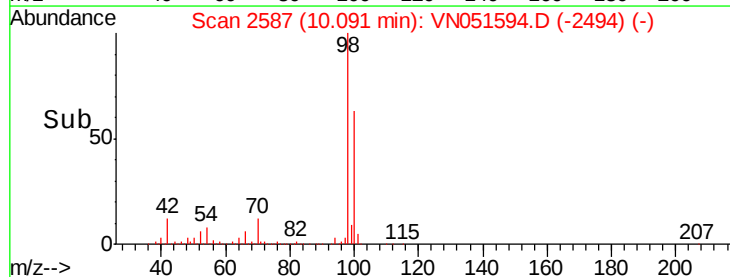
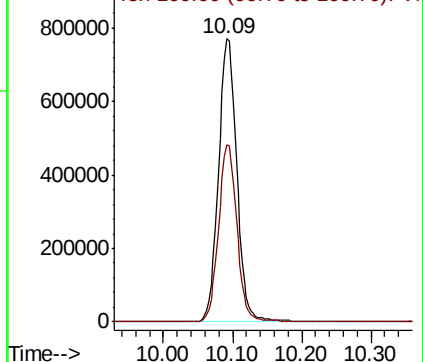


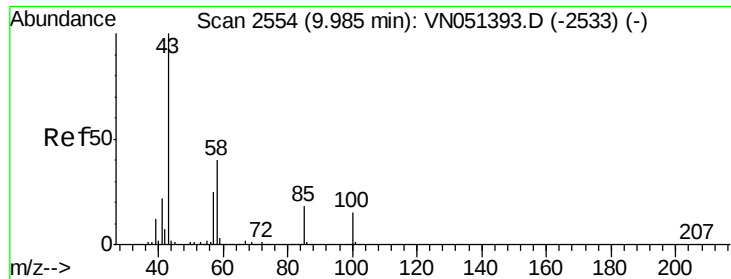
#50
Toluene-d8
Concen: 45.983 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN051594.D
Acq: 27 Sep 2018 20:08

Tgt Ion: 98 Resp: 1418465
Ion Ratio Lower Upper
98 100
100 62.6 50.6 75.8



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

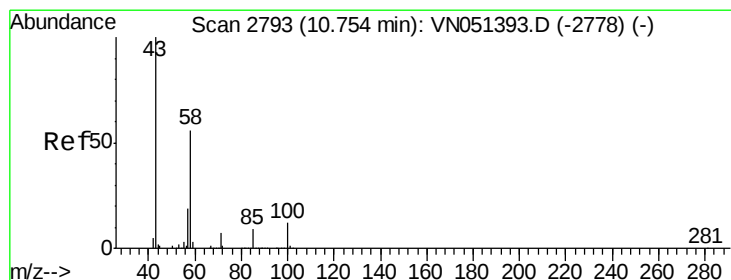
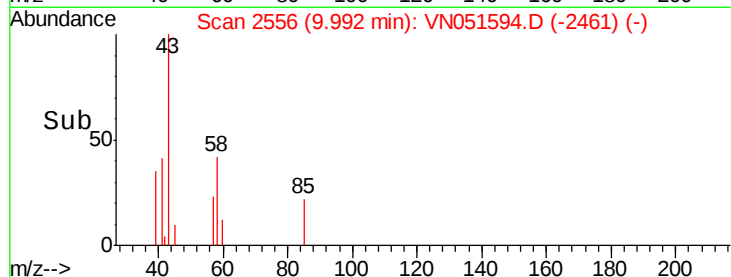
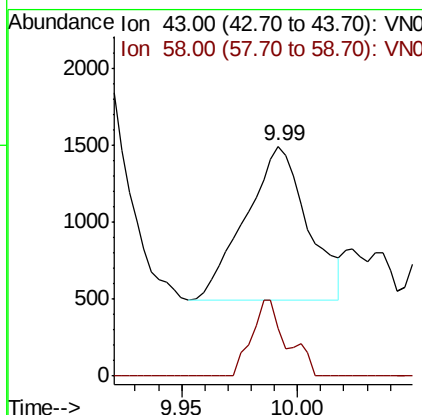
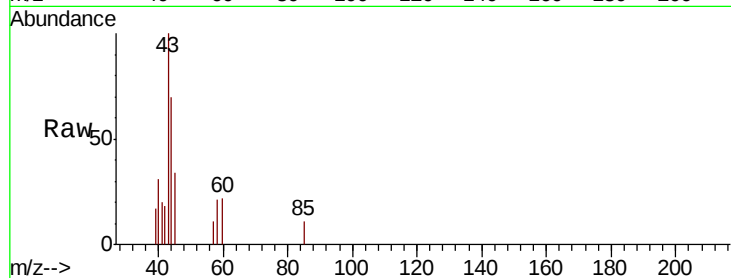




#51
4-Methyl-2-Pentanone
Concen: 0.277 ug/l
RT: 9.99 min Scan# 2556
Delta R.T. 0.01 min
Lab File: VN051594.D
Acq: 27 Sep 2018 20:08

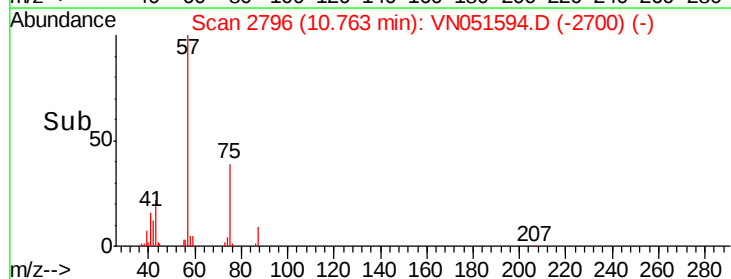
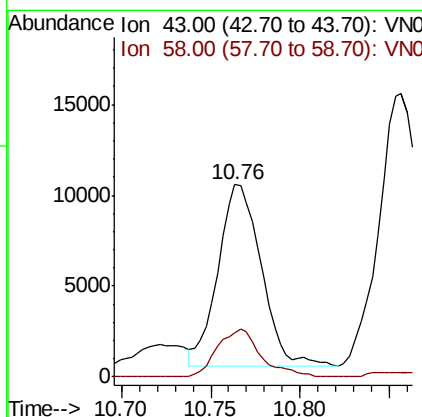
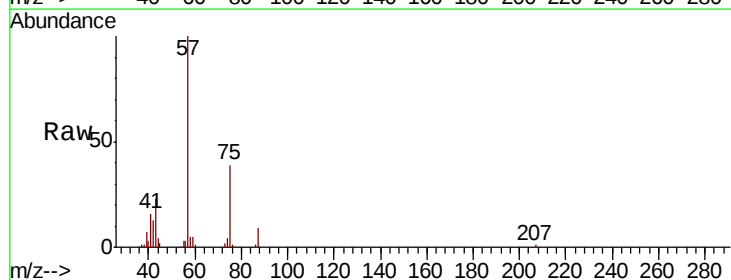
Instrument :
MSVOA_N
ClientSampleId :
PB113263ZHE#06

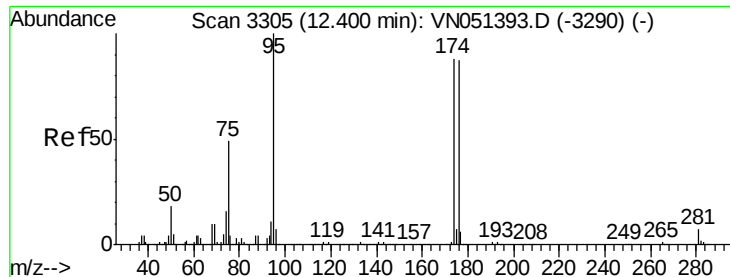
Tot Ion: 43 Resp: 1877
Ion Ratio Lower Upper
43 100
58 27.9 31.5 47.3#



#59
2-Hexanone
Concen: 3.815 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN051594.D
Acq: 27 Sep 2018 20:08

Tgt Ion: 43 Resp: 16776
Ion Ratio Lower Upper
43 100
58 26.6 27.7 83.0#





#62

4-Bromofluorobenzene

Concen: 36.845 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN051594.D

Acq: 27 Sep 2018 20:08

Instrument :

MSVOA_N

ClientSampleId :

PB113263ZHE#06

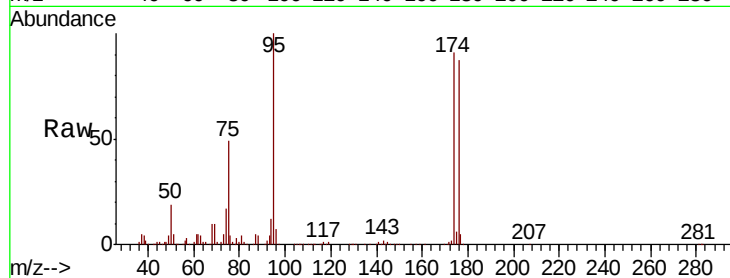
Tot Ion: 95 Resp: 367680

Ion Ratio Lower Upper

95 100

174 89.6 0.0 181.6

176 85.6 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

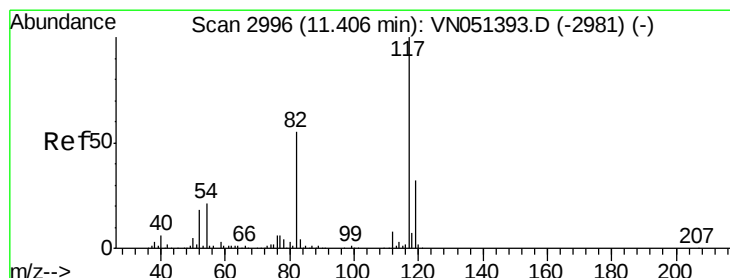
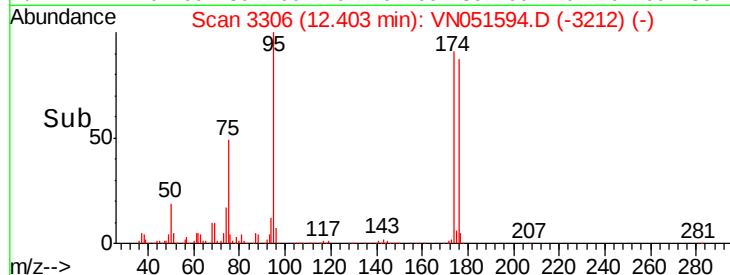
150000

100000

50000

0

Time--> 12.30 12.40 12.50



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN051594.D

Acq: 27 Sep 2018 20:08

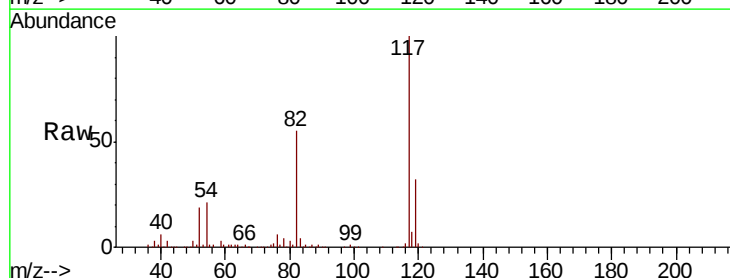
Tgt Ion: 117 Resp: 842337

Ion Ratio Lower Upper

117 100

82 55.4 44.2 66.2

119 32.3 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

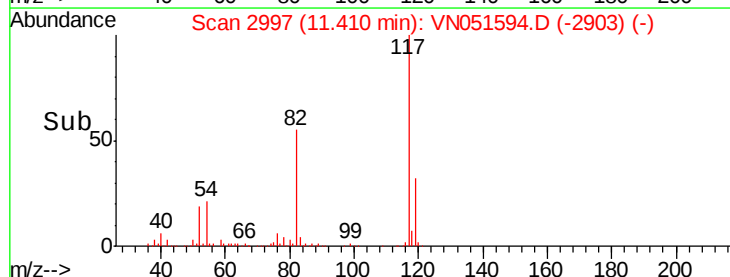
300000

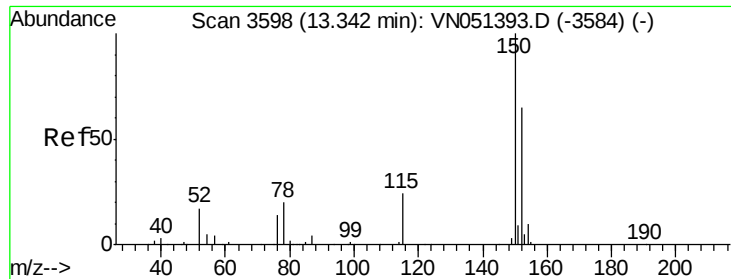
200000

100000

0

Time--> 11.30 11.40 11.50





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN051594.D

Acq: 27 Sep 2018 20:08

Instrument :

MSVOA_N

ClientSampleId :

PB113263ZHE#06

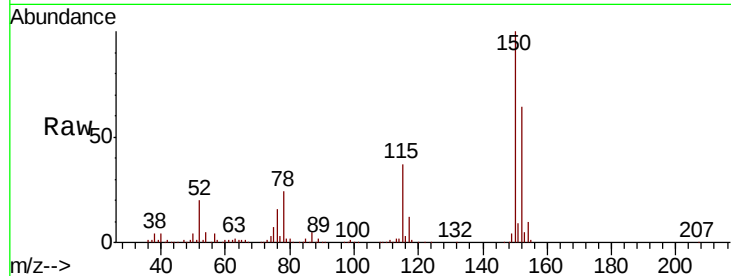
Tot Ion:152 Resp: 285940

Ion Ratio Lower Upper

152 100

115 56.6 28.3 84.9

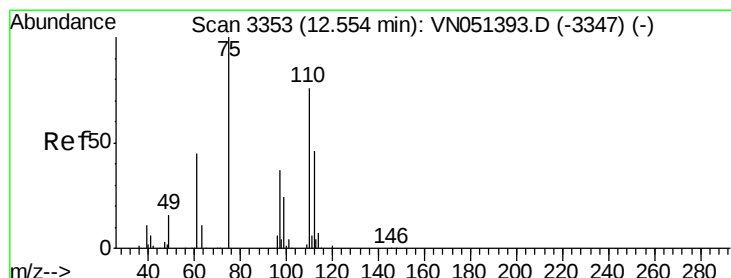
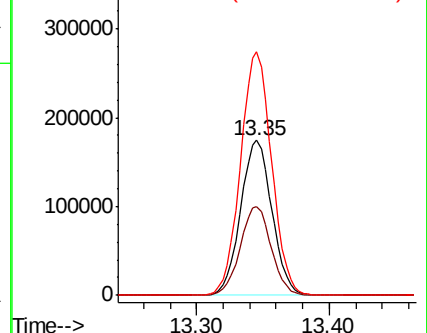
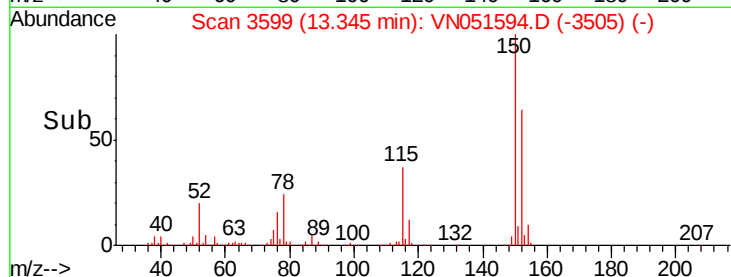
150 156.2 0.0 353.6



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: 38.020 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN051594.D

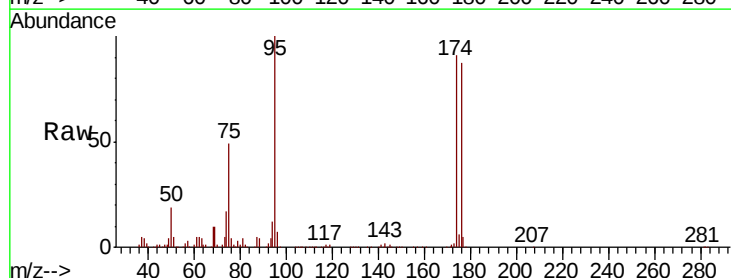
Acq: 27 Sep 2018 20:08

Tgt Ion: 75 Resp: 180473

Ion Ratio Lower Upper

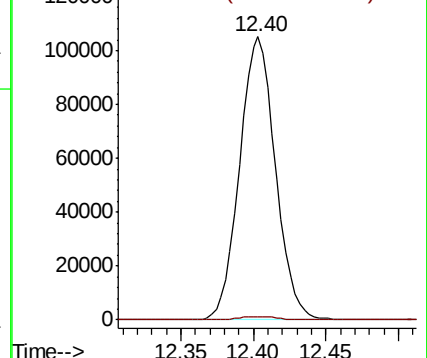
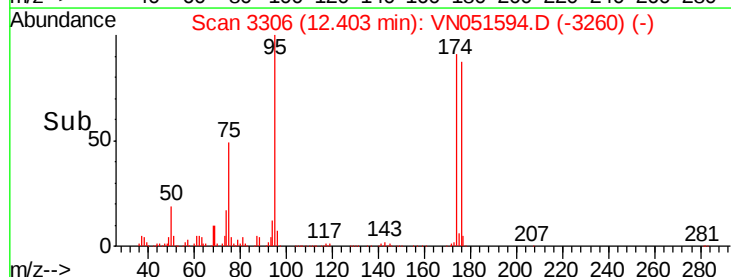
75 100

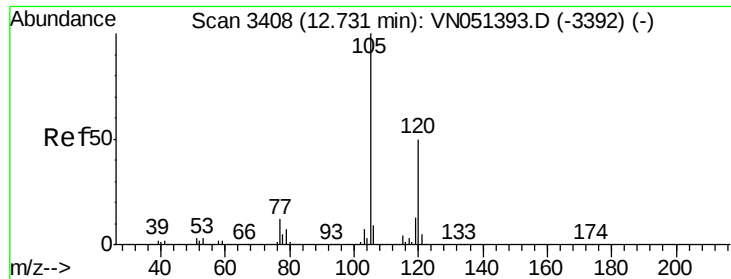
77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V

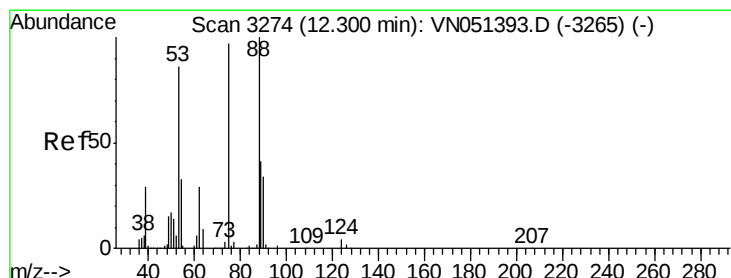
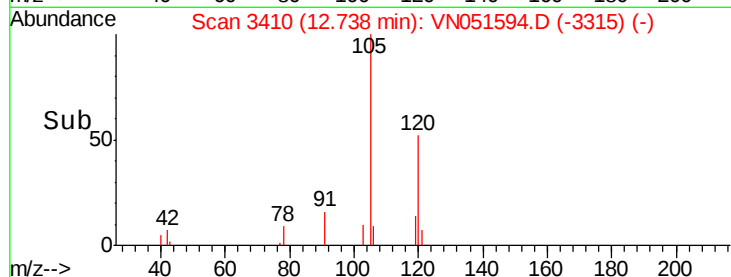
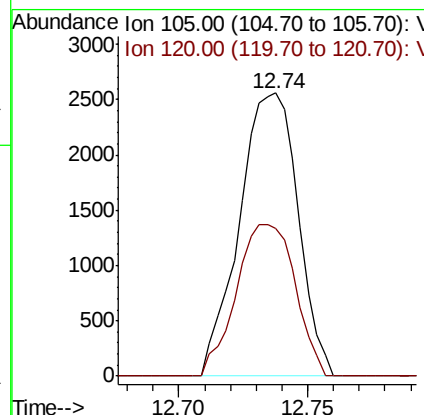
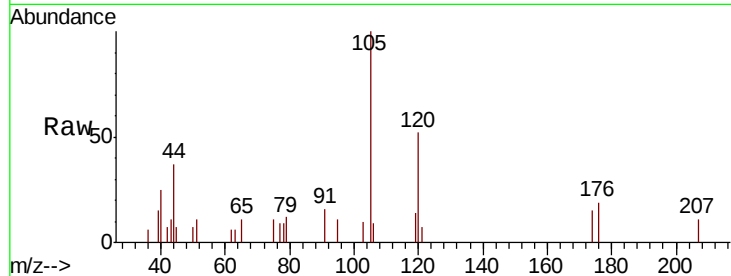




#80
 1,3,5-Trimethylbenzene
 Concen: 0.206 ug/l
 RT: 12.74 min Scan# 3410
 Delta R.T. 0.01 min
 Lab File: VN051594.D
 Acq: 27 Sep 2018 20:08

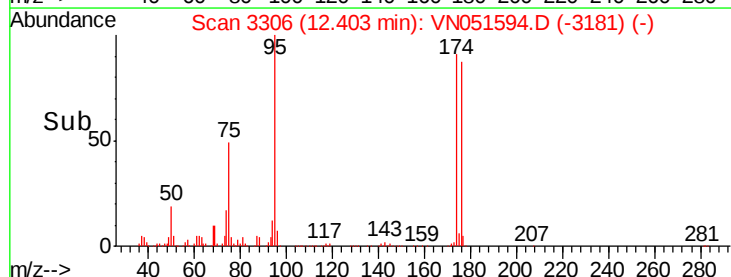
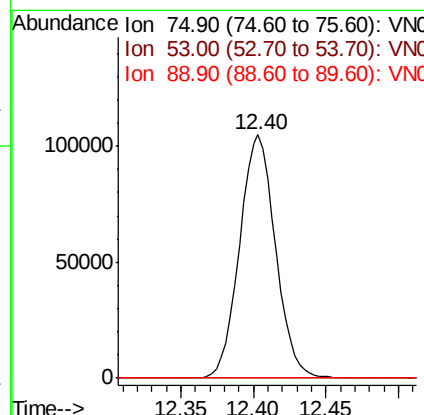
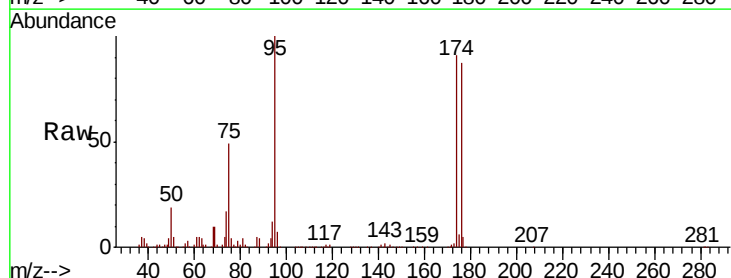
Instrument :
 MSVOA_N
 ClientSampleId :
 PB113263ZHE#06

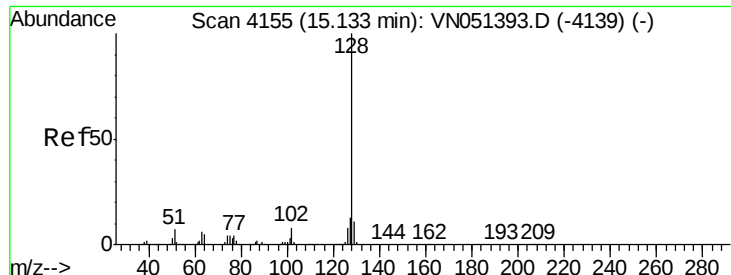
Tot Ion:105 Resp: 4055
 Ion Ratio Lower Upper
 105 100
 120 0.0 24.8 74.4#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 116.909 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. 0.10 min
 Lab File: VN051594.D
 Acq: 27 Sep 2018 20:08

Tgt Ion: 75 Resp: 180473
 Ion Ratio Lower Upper
 75 100
 53 0.2 73.9 110.9#
 89 0.0 36.7 55.1#





#95
 Naphthalene
 Concen: 8.061 ug/l
 RT: 15.14 min Scan# 4158
 Delta R.T. 0.01 min
 Lab File: VN051594.D
 Acq: 27 Sep 2018 20:08

Instrument :
 MSVOA_N
 ClientSampleId :
 PB113263ZHE#06

Tot Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.5	15.7#
129	0.0	8.6	12.8#

