

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092718\
 Data File : VN051592.D
 Acq On : 27 Sep 2018 19:18
 Operator : MD\SY
 Sample : PB113263ZHE#04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 57 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB113263ZHE#04

Quant Time: Sep 28 01:53:01 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	621868	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1025172	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	847485	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	283214	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	460353	59.10	ug/l	0.00
Spiked Amount			Recovery	=	118.20%	
35) Dibromofluoromethane	7.59	113	388556	47.40	ug/l	0.00
Spiked Amount			Recovery	=	94.80%	
50) Toluene-d8	10.09	98	1408316	45.62	ug/l	0.00
Spiked Amount			Recovery	=	91.24%	
62) 4-Bromofluorobenzene	12.40	95	370124	37.06	ug/l	0.00
Spiked Amount			Recovery	=	74.12%	

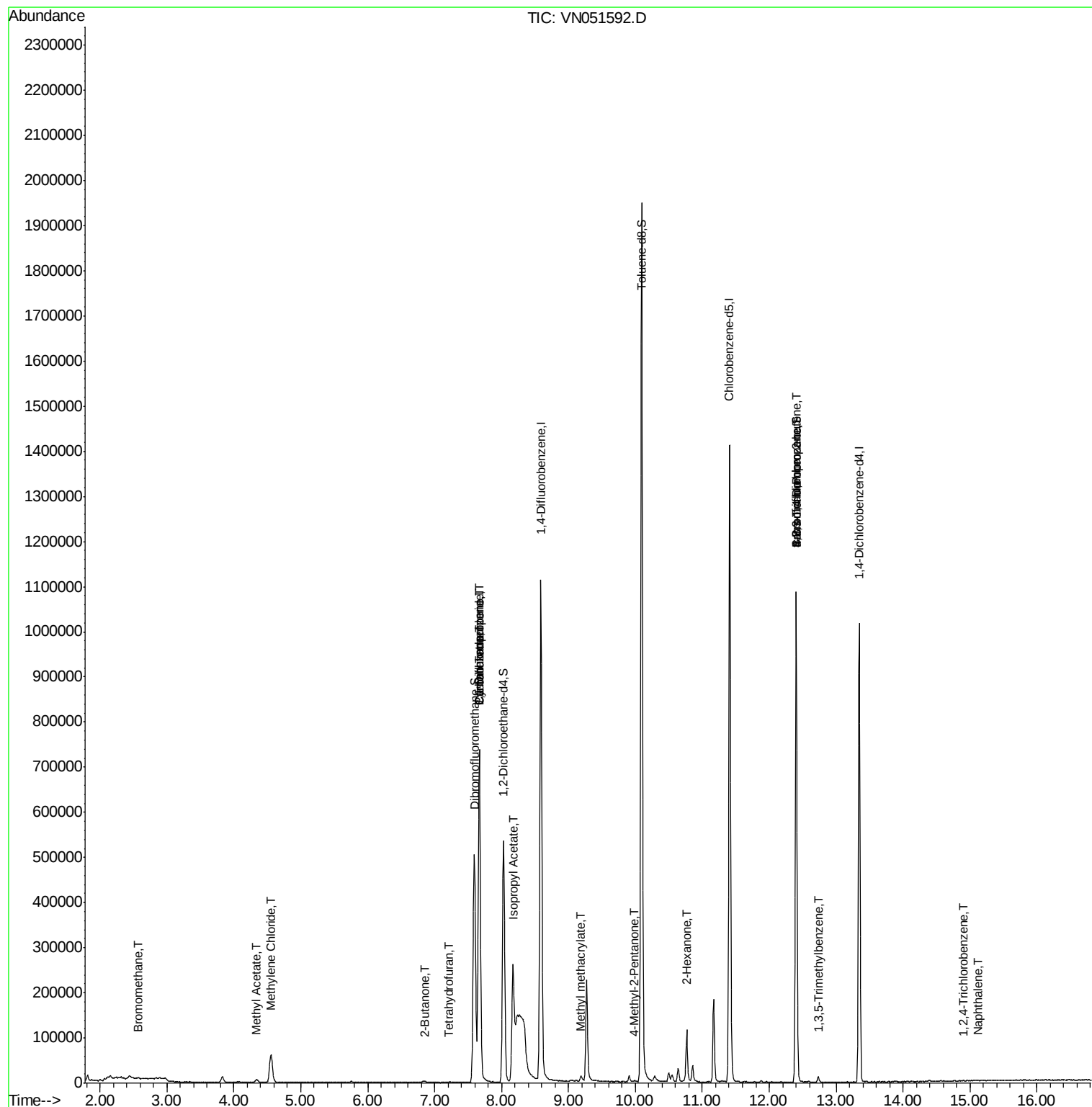
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.57	94	1293	0.271	ug/l	99
16) Acetone	3.83	43	19560	Below Cal		92
18) Methyl Acetate	4.34	43	13420	2.262	ug/l #	77
20) Methylene Chloride	4.55	84	45561	5.910	ug/l	98
25) 2-Butanone	6.86	43	3346	1.255	ug/l #	81
29) Tetrahydrofuran	7.20	42	516	0.305	ug/l #	75
31) Cyclohexane	7.66	56	11961	0.975	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	45665	3.847	ug/l #	48
38) Carbon Tetrachloride	7.67	117	56530	4.553	ug/l #	16
43) Isopropyl Acetate	8.17	43	343296	27.813	ug/l #	91
48) Methyl methacrylate	9.18	41	6943	1.128	ug/l #	23
51) 4-Methyl-2-Pentanone	9.99	43	2214	0.326	ug/l #	63
59) 2-Hexanone	10.77	43	17647	4.010	ug/l #	56
71) Bromoform	12.40	173	2938	0.523	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	182789	38.878	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	4469	0.229	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.40	75	182789	119.549	ug/l #	13
93) 1,2,4-Trichlorobenzene	14.91	180	65	5.992	ug/l #	11
95) Naphthalene	15.14	128	344	8.072	ug/l #	69

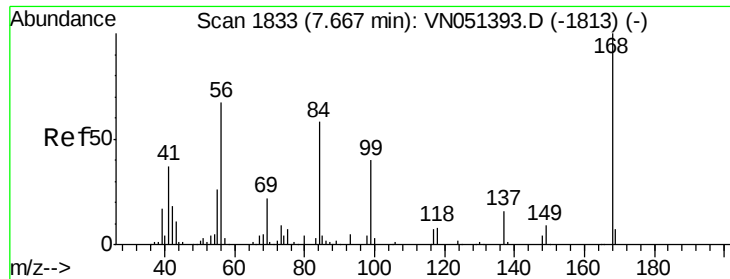
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN051592.D

Acq: 27 Sep 2018 19:18

Instrument :

MSVOA_N

ClientSampleId :

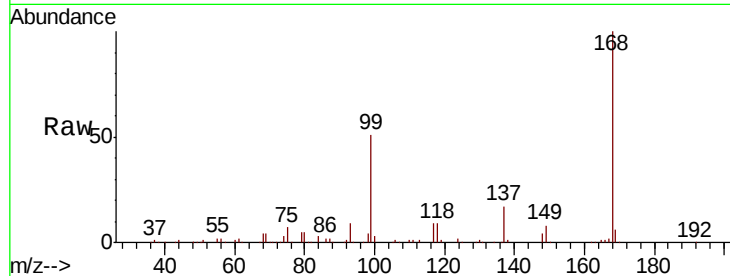
PB113263ZHE#04

Tot Ion:168 Resp: 621868

Ion Ratio Lower Upper

168 100

99 51.4 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

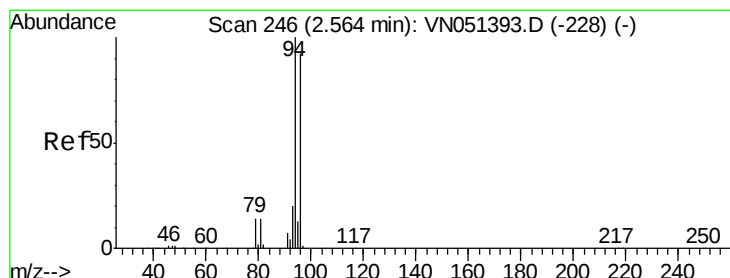
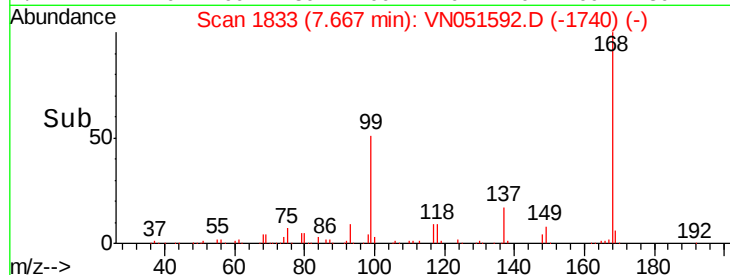
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: 0.271 ug/l

RT: 2.57 min Scan# 249

Delta R.T. 0.01 min

Lab File: VN051592.D

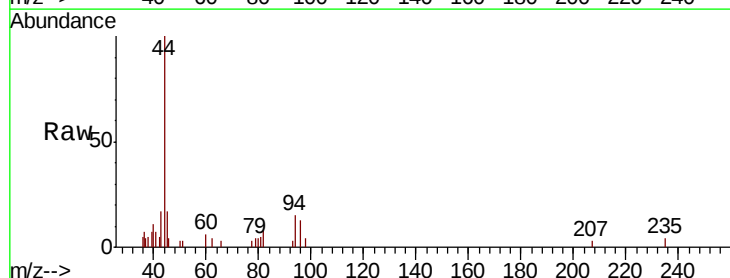
Acq: 27 Sep 2018 19:18

Tgt Ion: 94 Resp: 1293

Ion Ratio Lower Upper

94 100

96 91.2 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

800

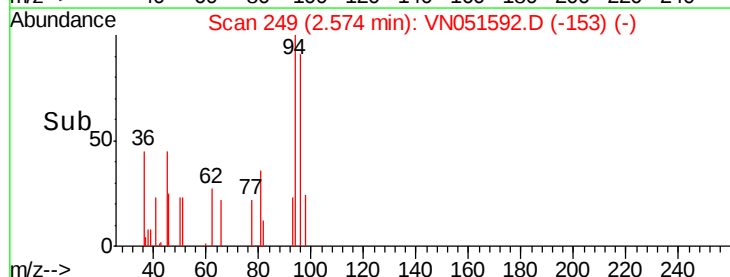
600

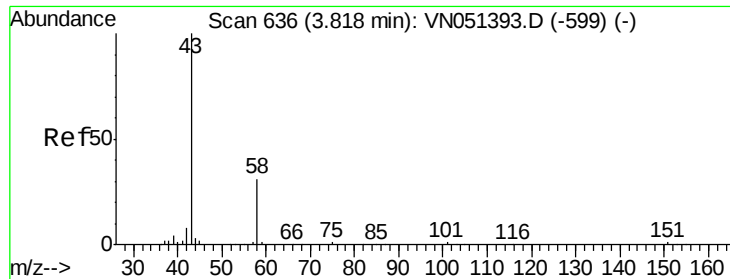
400

200

0

Time-->





#16

Acetone

Concen: Below Cal

RT: 3.83 min Scan# 639

Delta R.T. 0.01 min

Lab File: VN051592.D

Acq: 27 Sep 2018 19:18

Instrument :

MSVOA_N

ClientSampleId :

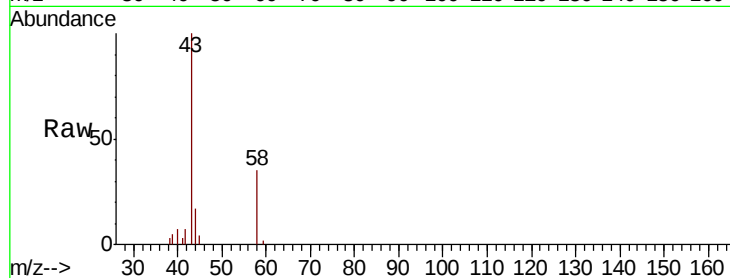
PB113263ZHE#04

Tot Ion: 43 Resp: 19560

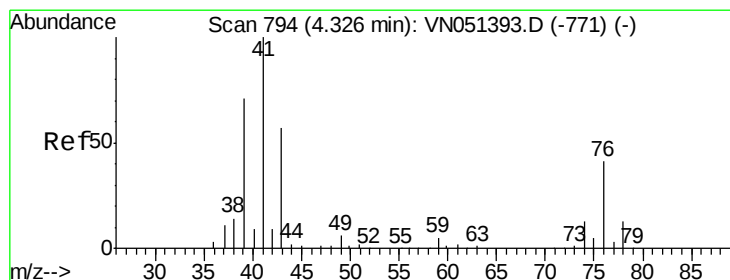
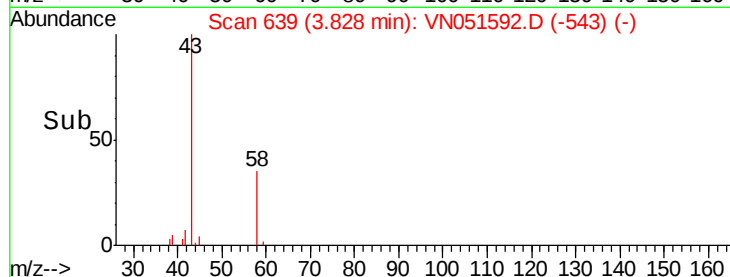
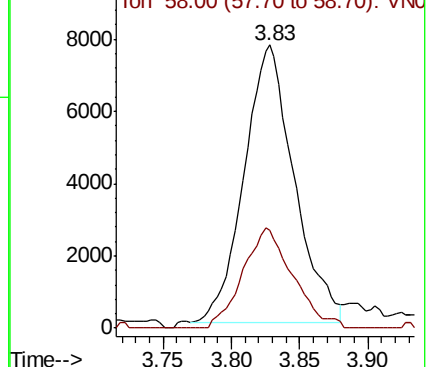
Ion Ratio Lower Upper

43 100

58 35.4 25.0 37.4



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



#18

Methyl Acetate

Concen: 2.262 ug/l

RT: 4.34 min Scan# 799

Delta R.T. 0.02 min

Lab File: VN051592.D

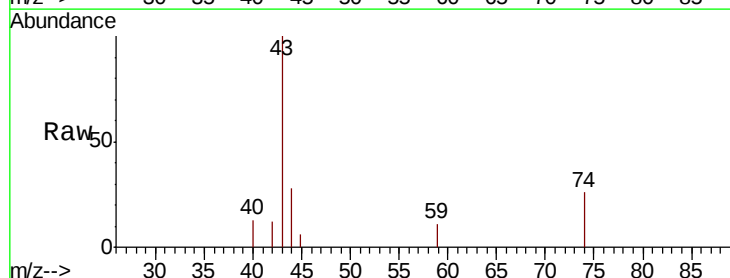
Acq: 27 Sep 2018 19:18

Tgt Ion: 43 Resp: 13420

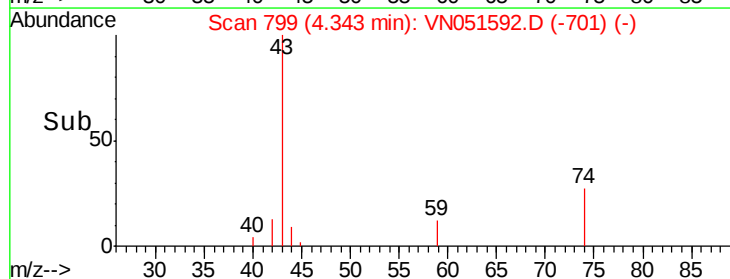
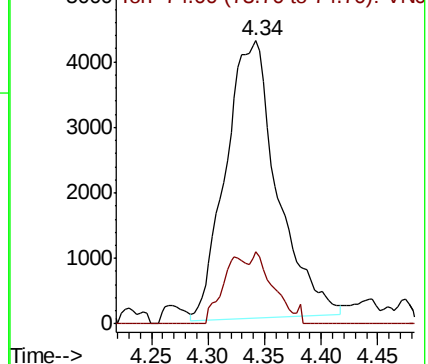
Ion Ratio Lower Upper

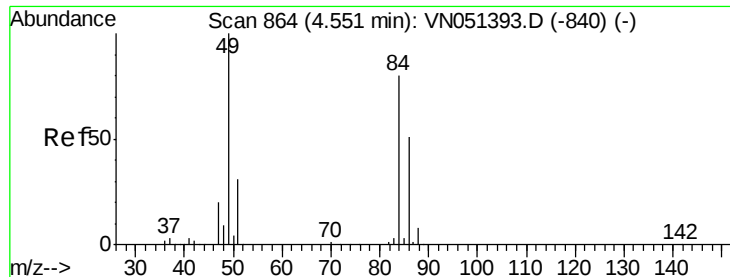
43 100

74 12.3 18.8 28.2#



Abundance Ion 43.00 (42.70 to 43.70): VN051393.D (-771) (-)

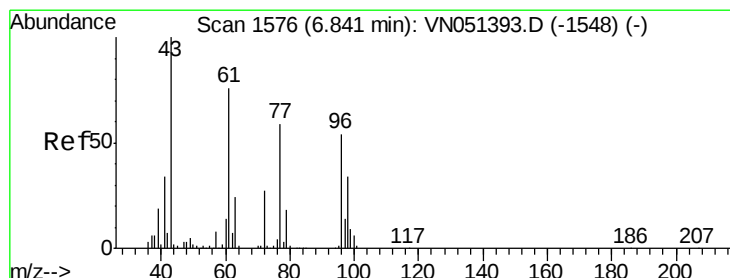
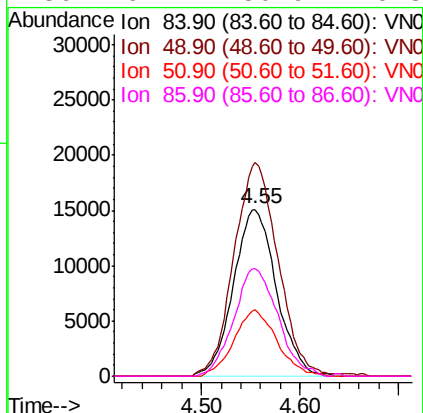
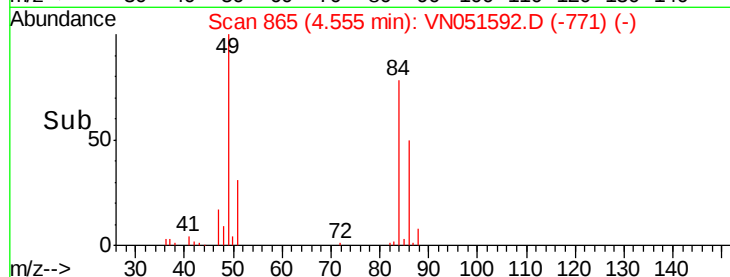
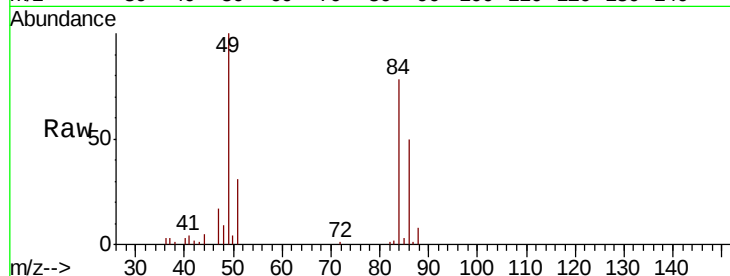




#20
Methvlene Chloride
Concen: 5.910 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN051592.D
Acq: 27 Sep 2018 19:18

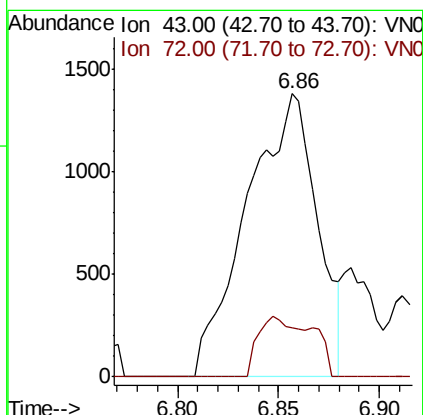
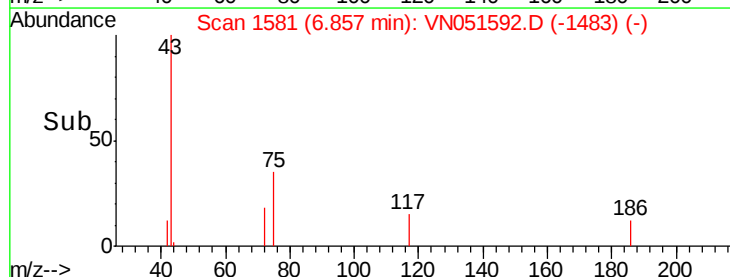
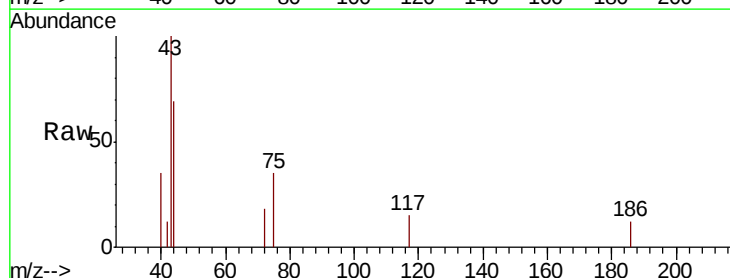
Instrument :
MSVOA_N
ClientSampleId :
PB113263ZHE#04

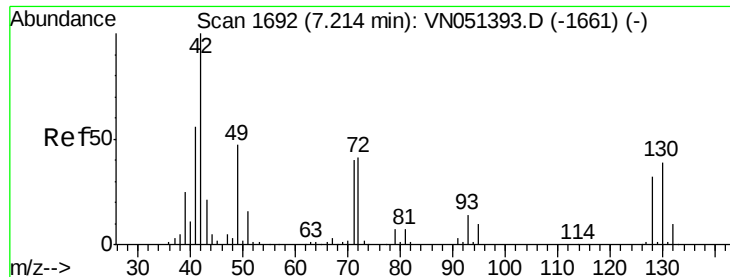
Tot Ion:	84	Resp:	45561
Ion	Ratio	Lower	Upper
84	100		
49	128.3	99.9	149.9
51	40.1	31.4	47.2
86	64.2	50.9	76.3



#25
2-Butanone
Concen: 1.255 ug/l
RT: 6.86 min Scan# 1581
Delta R.T. 0.02 min
Lab File: VN051592.D
Acq: 27 Sep 2018 19:18

Tgt Ion:	43	Resp:	3346
Ion	Ratio	Lower	Upper
43	100		
72	17.5	21.8	32.6#





#29

Tetrahydrofuran

Concen: 0.305 ug/l

RT: 7.20 min Scan# 1689

Delta R.T. -0.01 min

Lab File: VN051592.D

Acq: 27 Sep 2018 19:18

Instrument :

MSVOA_N

ClientSampleId :

PB113263ZHE#04

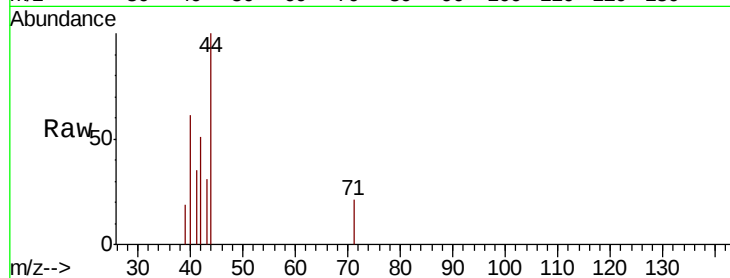
Tot Ion: 42 Resp: 516

Ion Ratio Lower Upper

42 100

72 46.3 34.3 51.5

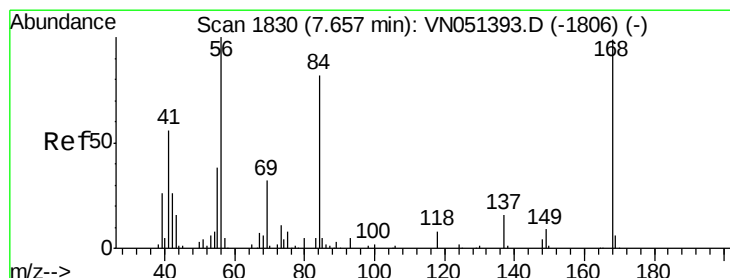
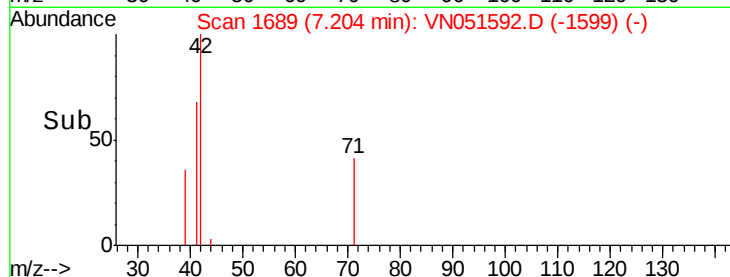
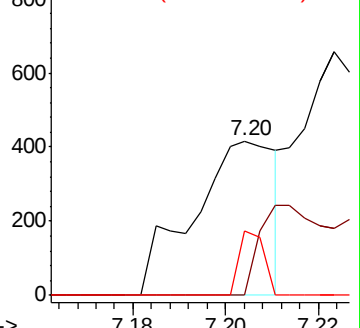
71 12.4 32.2 48.4#



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: 0.975 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.01 min

Lab File: VN051592.D

Acq: 27 Sep 2018 19:18

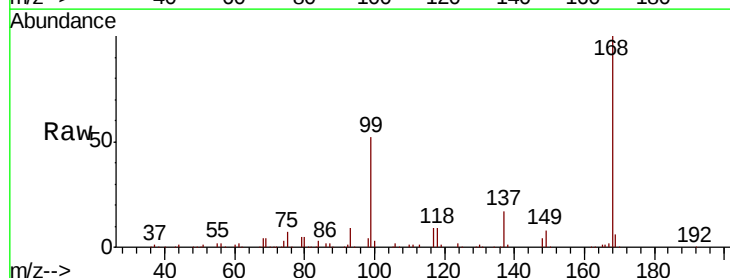
Tgt Ion: 56 Resp: 11961

Ion Ratio Lower Upper

56 100

69 188.4 25.8 38.6#

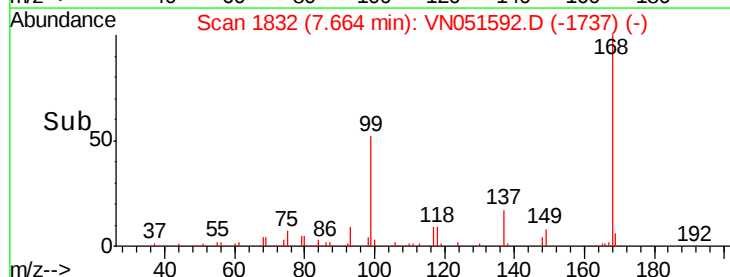
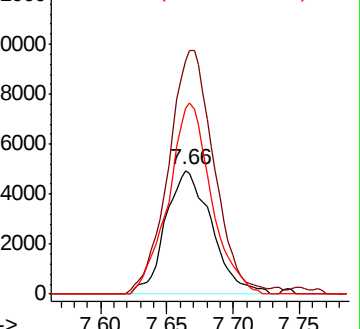
84 150.7 66.0 99.0#

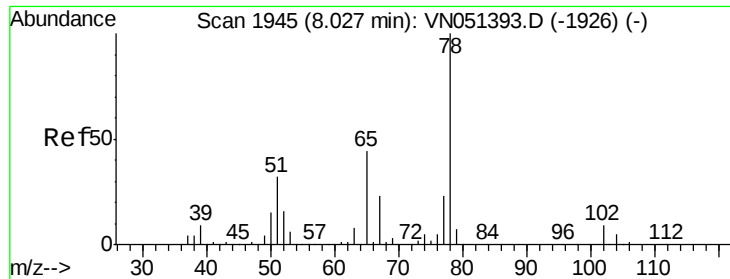


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

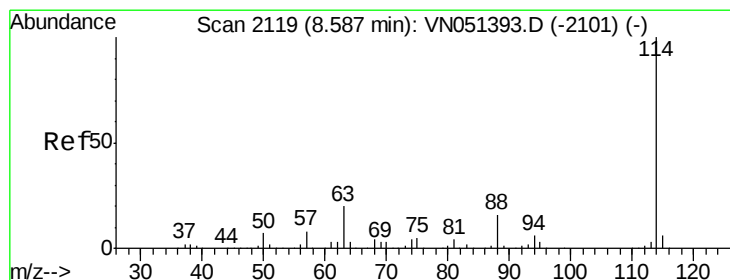
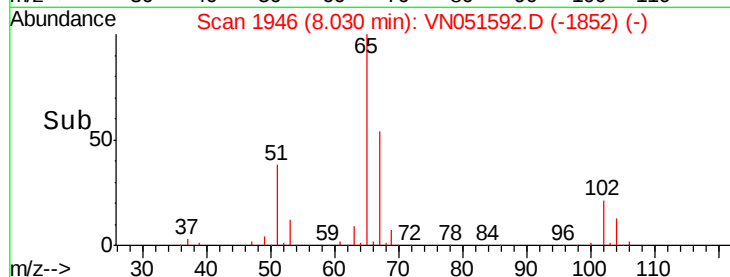
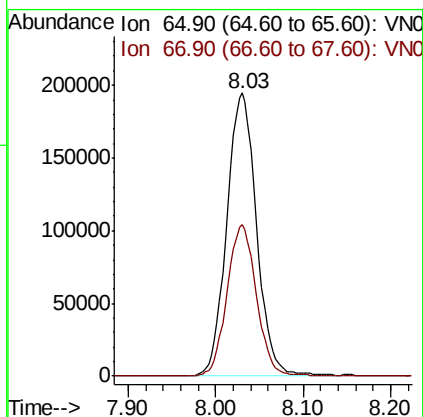
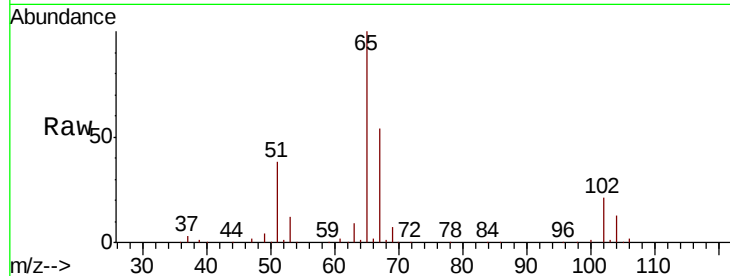




#33
 1,2-Dichloroethane-d4
 Concen: 59.095 ug/l
 RT: 8.03 min Scan# 1946
 Delta R.T. 0.00 min
 Lab File: VN051592.D
 Acq: 27 Sep 2018 19:18

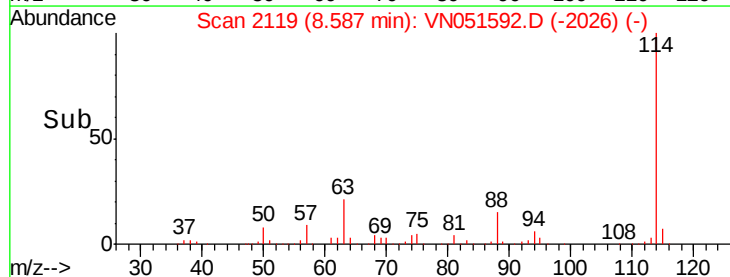
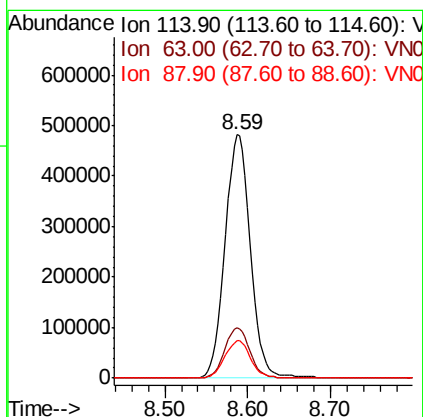
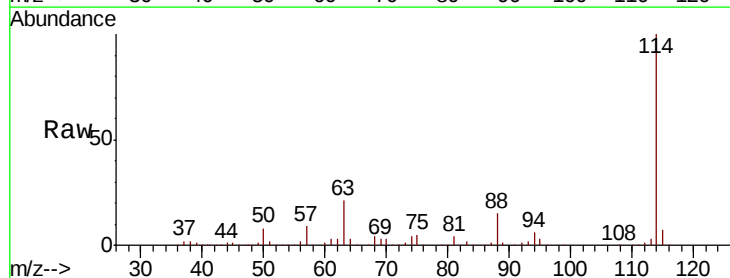
Instrument :
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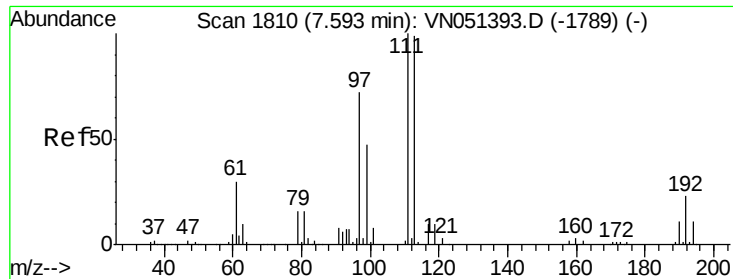
Tot Ion: 65 Resp: 460353
 Ion Ratio Lower Upper
 65 100
 67 52.7 0.0 107.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN051592.D
 Acq: 27 Sep 2018 19:18

Tgt Ion: 114 Resp: 1025172
 Ion Ratio Lower Upper
 114 100
 63 20.7 0.0 40.2
 88 15.2 0.0 31.4

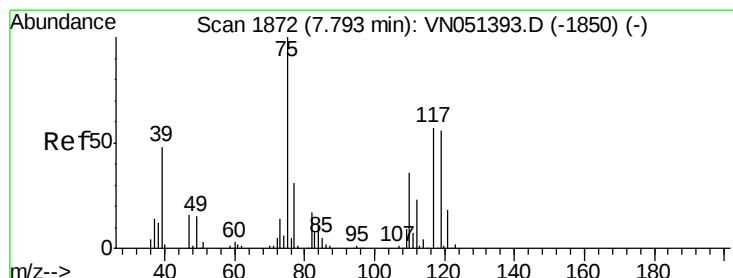
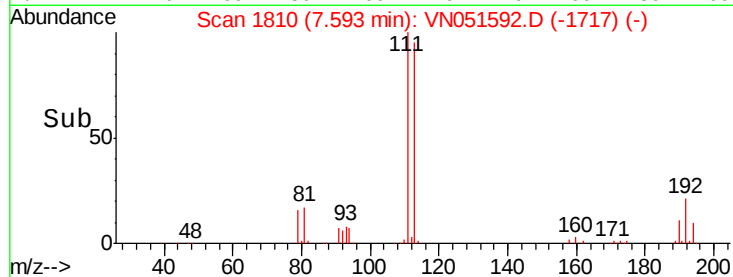
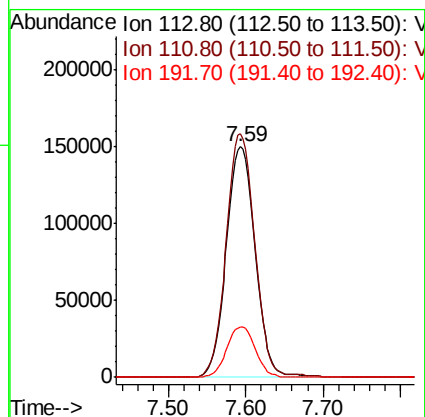
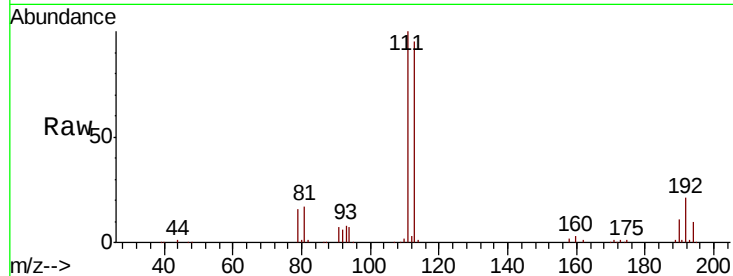




#35
 Dibromofluoromethane
 Concen: 47.397 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN051592.D
 Acq: 27 Sep 2018 19:18

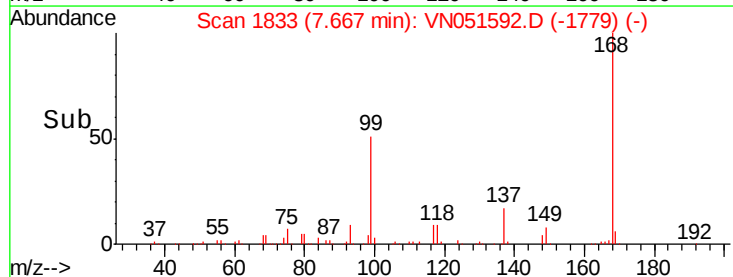
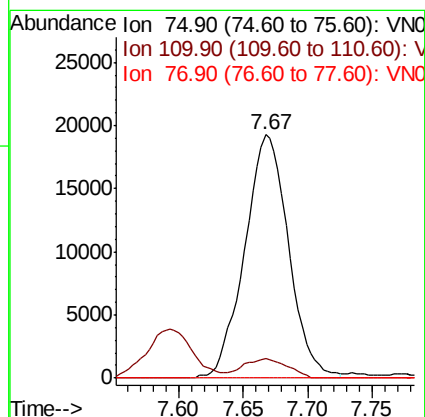
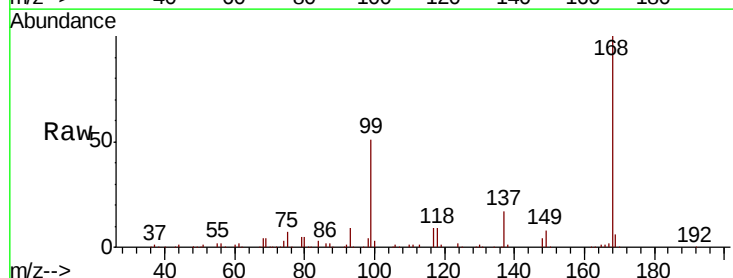
Instrument :
 MSVOA_N
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 PB113263ZHE#04

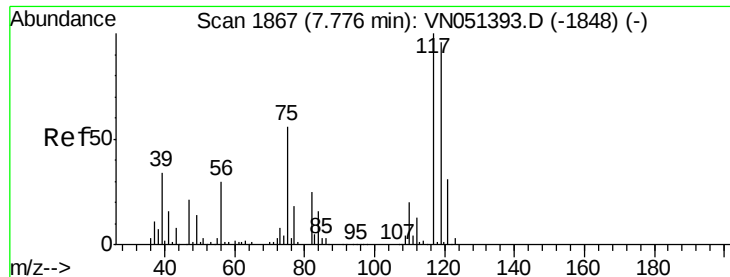
Tot Ion	Ratio	Lower	Upper
113	100		
111	104.4	82.6	123.8
192	21.7	18.0	27.0



#36
 1,1-Dichloropropene
 Concen: 3.847 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN051592.D
 Acq: 27 Sep 2018 19:18

Tgt Ion	Ratio	Lower	Upper
75	100		
110	7.9	18.1	54.3#
77	0.0	25.6	38.4#





#38

Carbon Tetrachloride

Concen: 4.553 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. -0.11 min

Lab File: VN051592.D

Acq: 27 Sep 2018 19:18

Instrument :

MSVOA_N

ClientSampleId :

PB113263ZHE#04

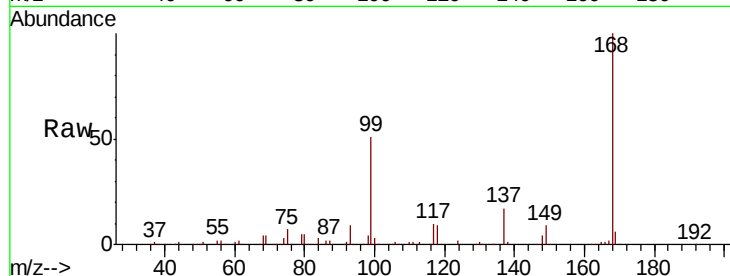
Tot Ion:117 Resp: 56530

Ion Ratio Lower Upper

117 100

119 5.2 76.9 115.3#

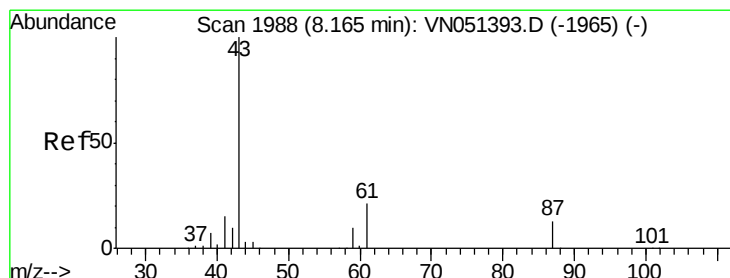
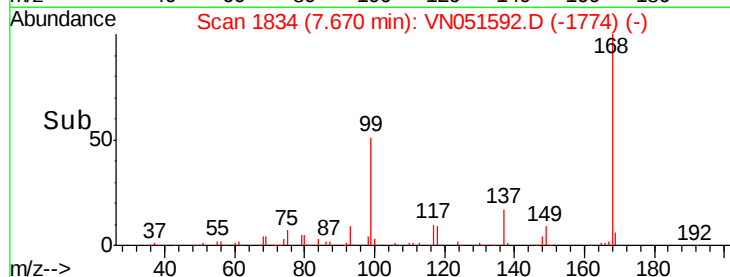
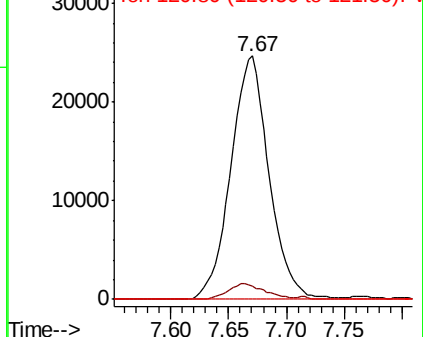
121 0.0 24.6 37.0#



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: 27.813 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.00 min

Lab File: VN051592.D

Acq: 27 Sep 2018 19:18

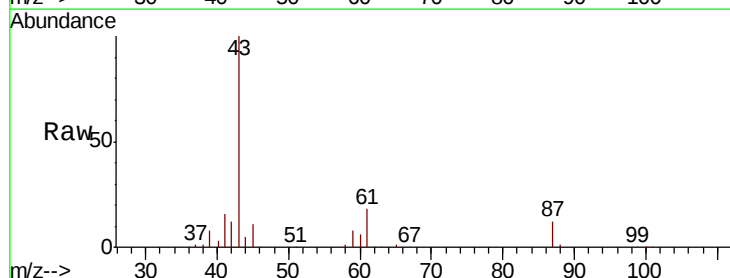
Tgt Ion: 43 Resp: 343296

Ion Ratio Lower Upper

43 100

61 16.4 16.8 25.2#

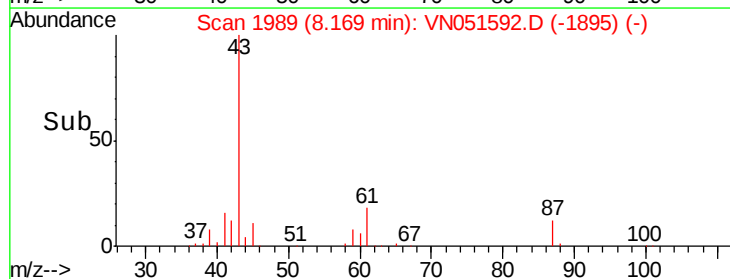
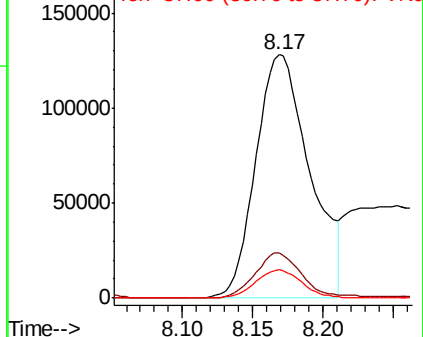
87 10.1 10.7 16.1#

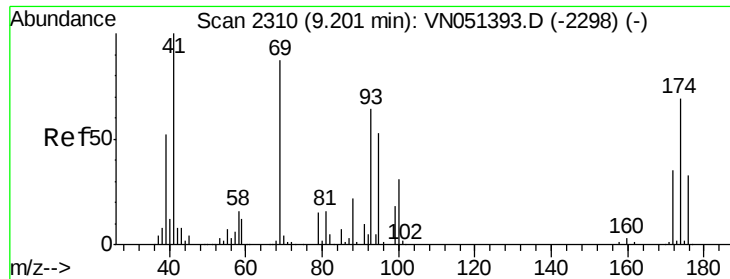


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

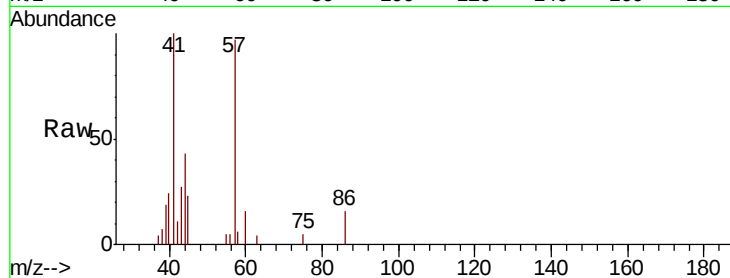




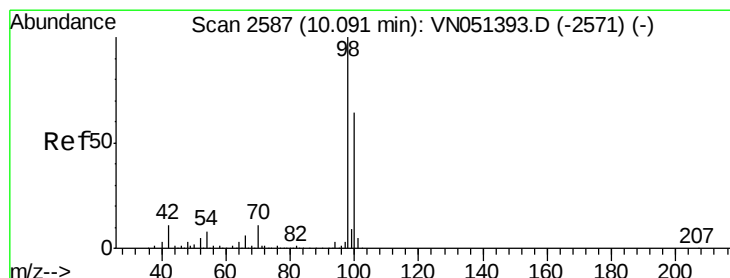
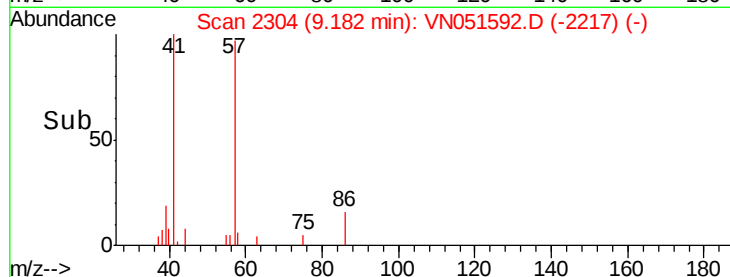
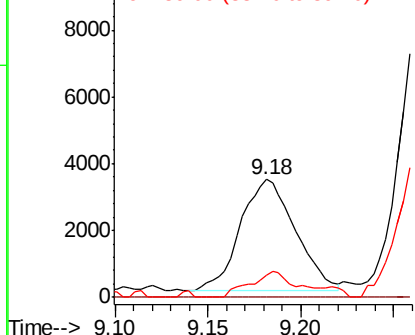
#48
Methvl methacrylate
Concen: 1.128 ug/l
RT: 9.18 min Scan# 2304
Delta R.T. -0.02 min
Lab File: VN051592.D
Acq: 27 Sep 2018 19:18

Instrument :
MSVOA_N
ClientSampleId :
PB113263ZHE#04

Tot Ion: 41 Resp: 6943
Ion Ratio Lower Upper
41 100
69 0.0 70.4 105.6#
39 19.3 43.8 65.8#

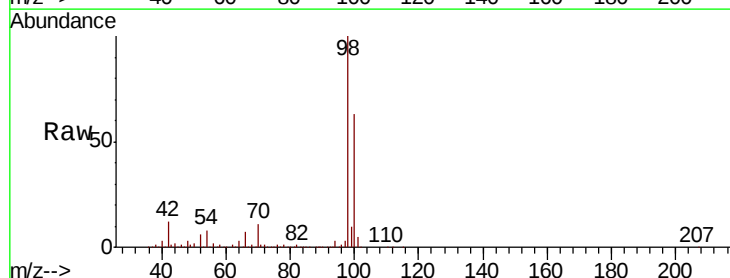


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

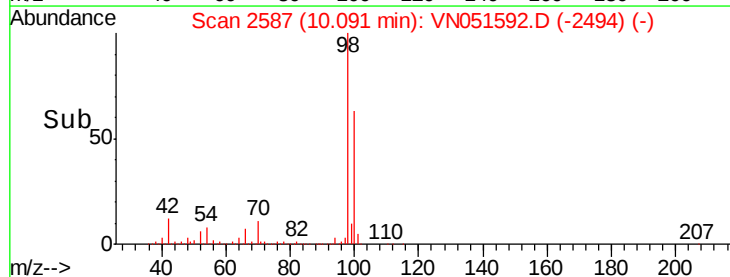
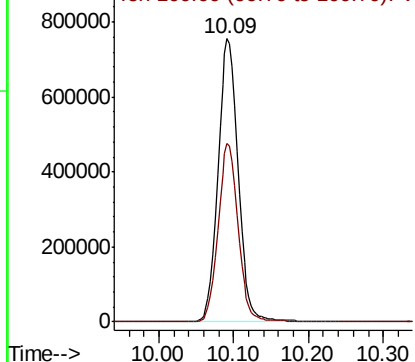


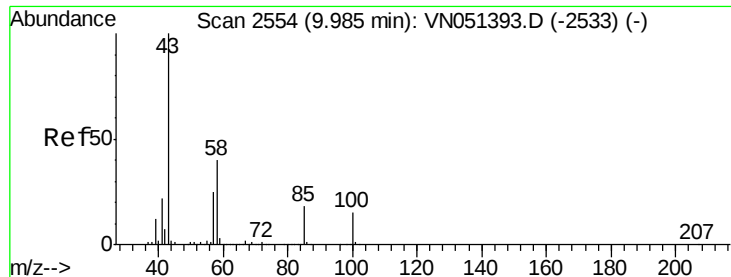
#50
Toluene-d8
Concen: 45.621 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN051592.D
Acq: 27 Sep 2018 19:18

Tgt Ion: 98 Resp: 1408316
Ion Ratio Lower Upper
98 100
100 62.3 50.6 75.8



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

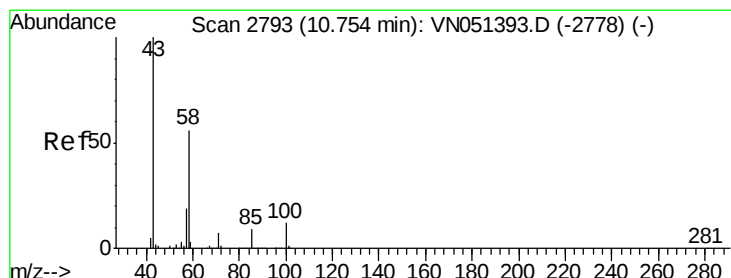
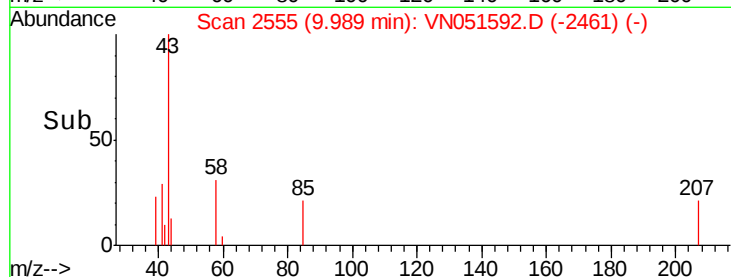
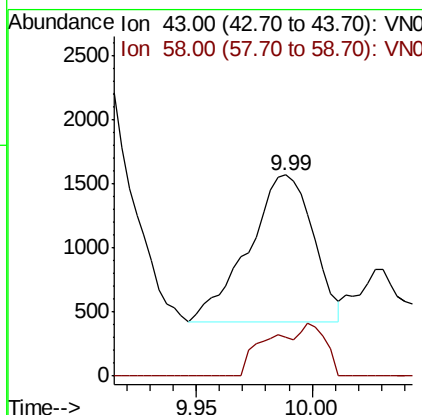
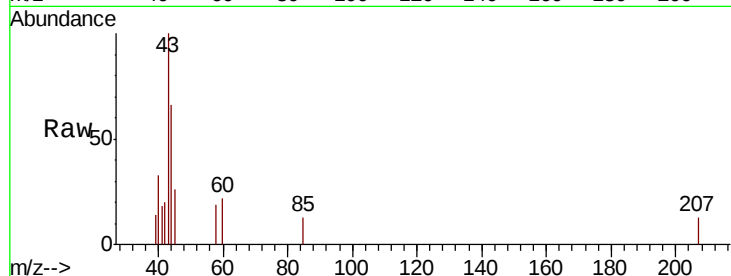




#51
4-Methyl-2-Pentanone
Concen: 0.326 ug/l
RT: 9.99 min Scan# 2555
Delta R.T. 0.00 min
Lab File: VN051592.D
Acq: 27 Sep 2018 19:18

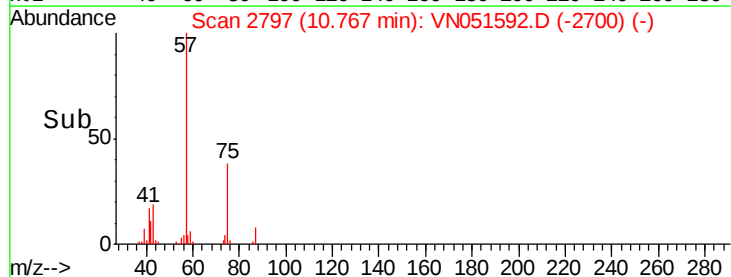
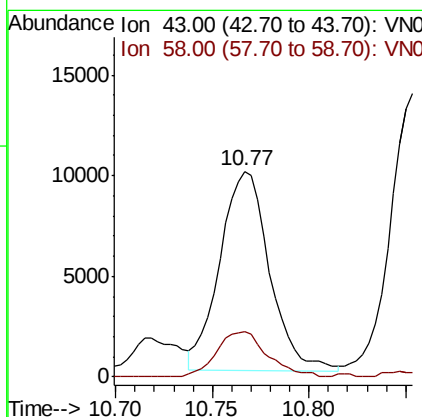
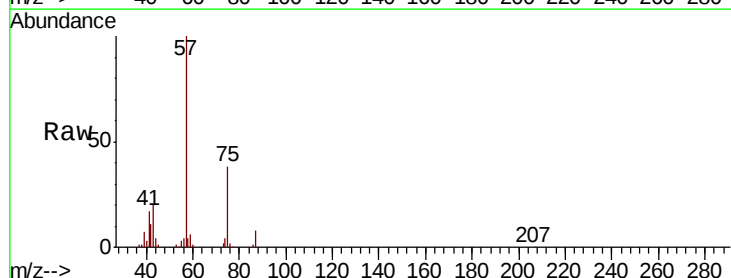
Instrument :
MSVOA_N
ClientSampleId :
PB113263ZHE#04

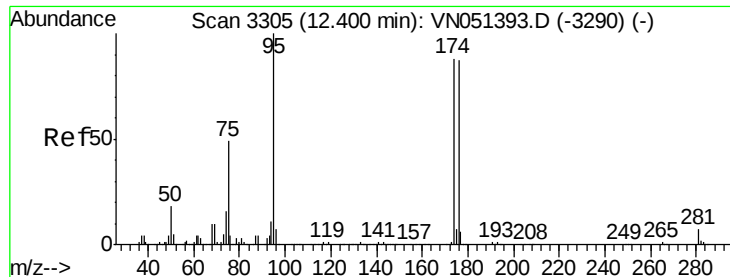
Tot Ion: 43 Resp: 2214
Ion Ratio Lower Upper
43 100
58 16.8 31.5 47.3#



#59
2-Hexanone
Concen: 4.010 ug/l
RT: 10.77 min Scan# 2797
Delta R.T. 0.01 min
Lab File: VN051592.D
Acq: 27 Sep 2018 19:18

Tgt Ion: 43 Resp: 17647
Ion Ratio Lower Upper
43 100
58 23.2 27.7 83.0#

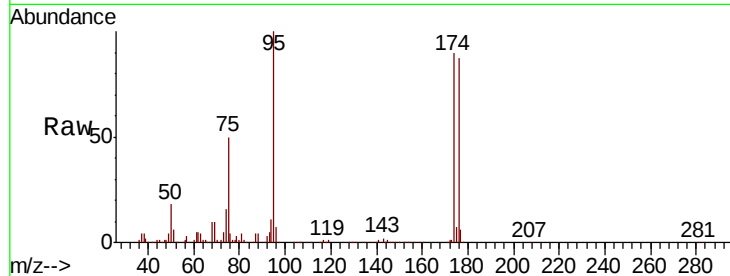




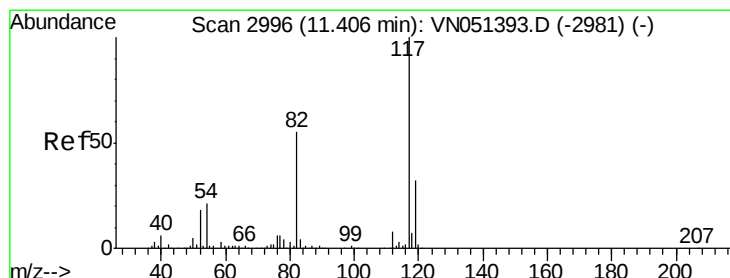
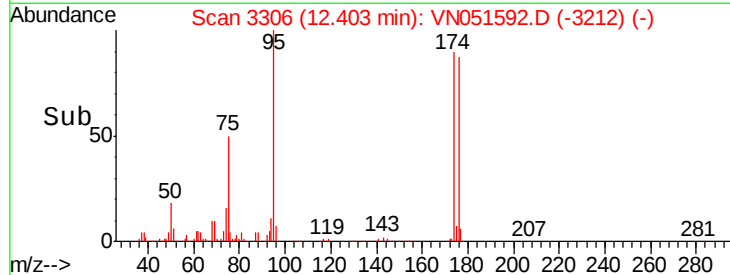
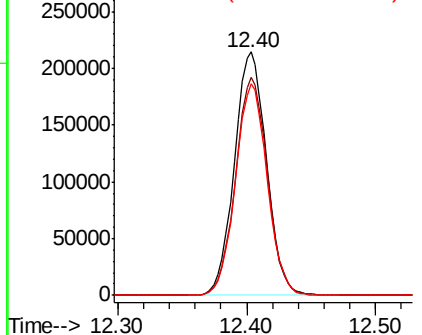
#62
 4-Bromofluorobenzene
 Concen: 37.063 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. 0.00 min
 Lab File: VN051592.D
 Acq: 27 Sep 2018 19:18

Instrument :
 MSVOA_N
 ClientSampleId :
 PB113263ZHE#04

Tot Ion: 95 Resp: 370124
 Ion Ratio Lower Upper
 95 100
 174 89.6 0.0 181.6
 176 86.2 0.0 176.4

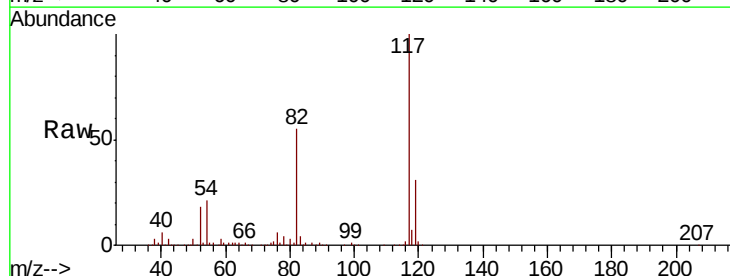


Abundance Ion 94.90 (94.60 to 95.60): VN0
 Ion 173.80 (173.50 to 174.50): V
 Ion 175.80 (175.50 to 176.50): V

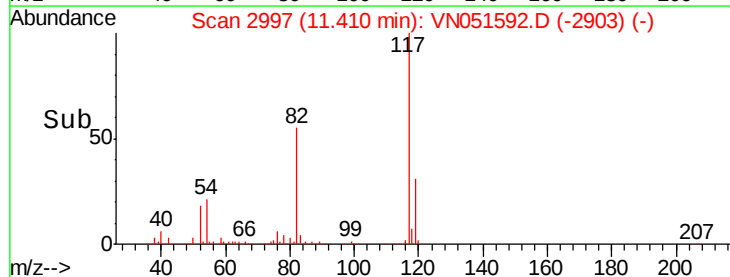
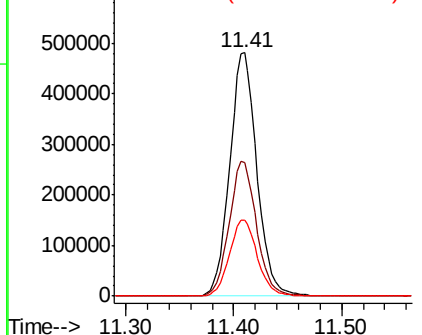


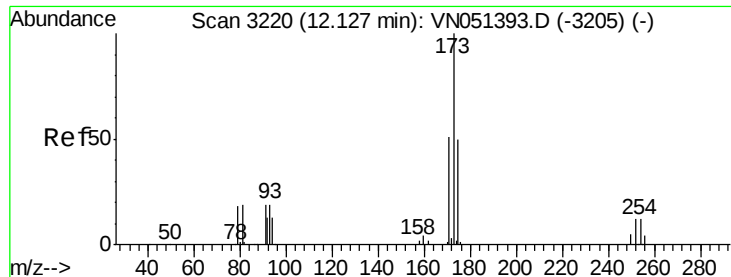
#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 11.41 min Scan# 2997
 Delta R.T. 0.00 min
 Lab File: VN051592.D
 Acq: 27 Sep 2018 19:18

Tgt Ion: 117 Resp: 847485
 Ion Ratio Lower Upper
 117 100
 82 54.9 44.2 66.2
 119 31.4 25.9 38.9



Abundance Ion 116.90 (116.60 to 117.60): V
 Ion 82.00 (81.70 to 82.70): VN0
 Ion 118.90 (118.60 to 119.60): V





#71

Bromoform

Concen: 0.523 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN051592.D

Acq: 27 Sep 2018 19:18

Instrument :

MSVOA_N

ClientSampleId :

PB113263ZHE#04

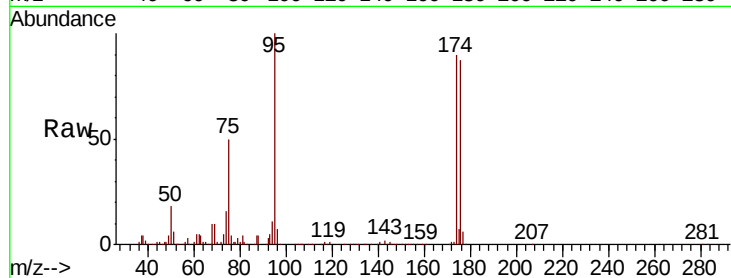
Tot Ion:173 Resp: 2938

Ion Ratio Lower Upper

173 100

175 705.7 24.8 74.3#

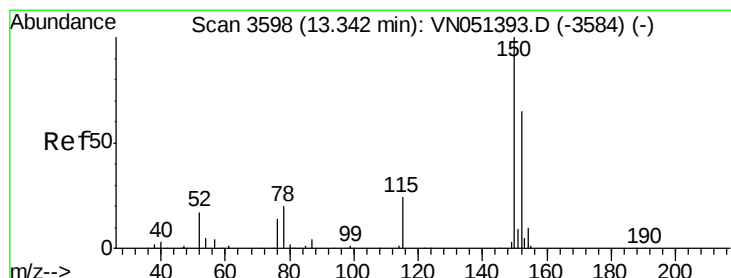
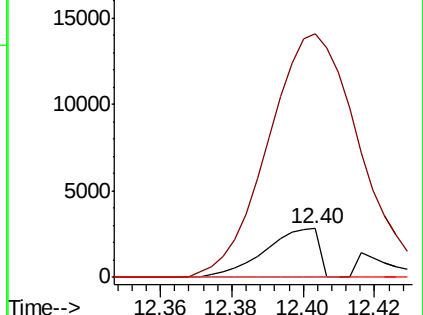
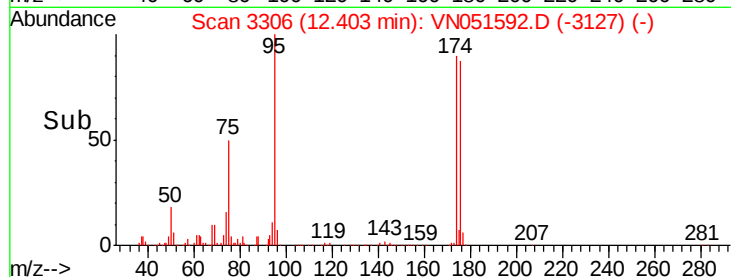
254 0.0 0.2 0.2#



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: VN051592.D

Acq: 27 Sep 2018 19:18

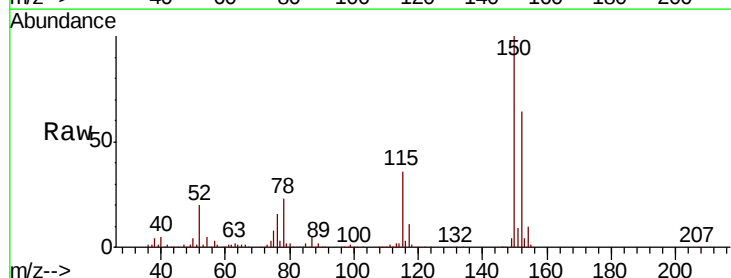
Tgt Ion:152 Resp: 283214

Ion Ratio Lower Upper

152 100

115 57.1 28.3 84.9

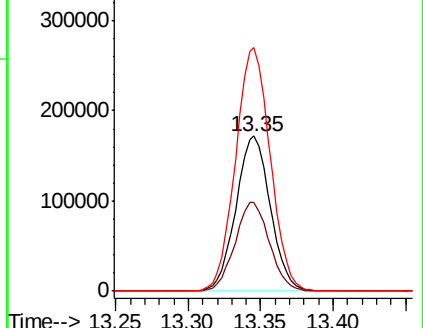
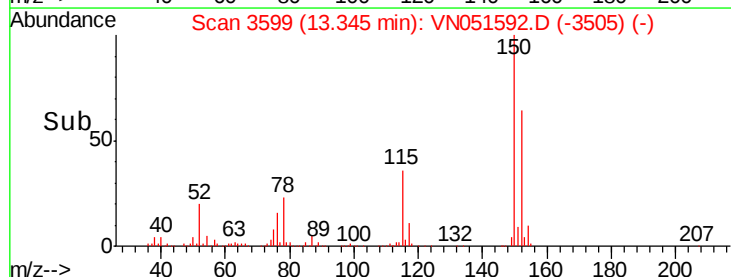
150 158.4 0.0 353.6

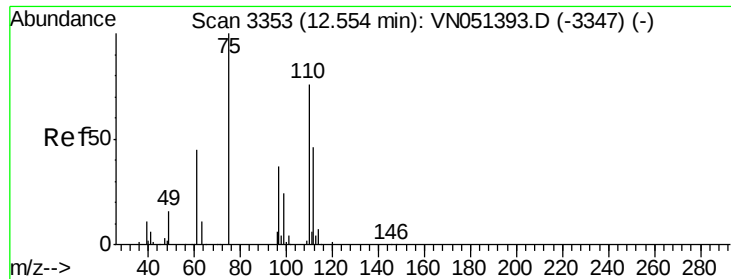


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 38.878 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN051592.D

Acq: 27 Sep 2018 19:18

Instrument :

MSVOA_N

ClientSampleId :

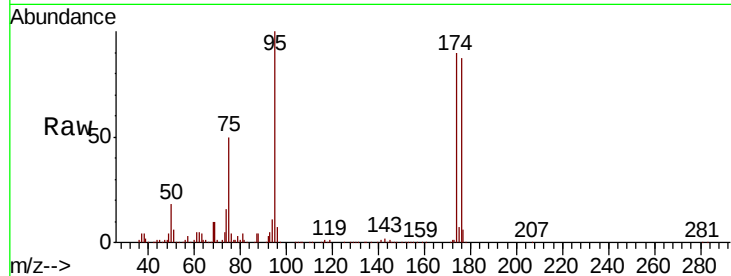
PB113263ZHE#04

Tot Ion: 75 Resp: 182789

Ion Ratio Lower Upper

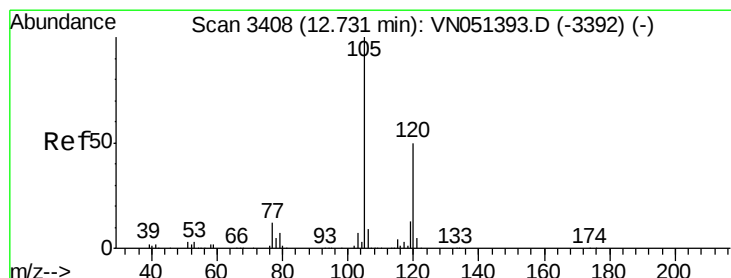
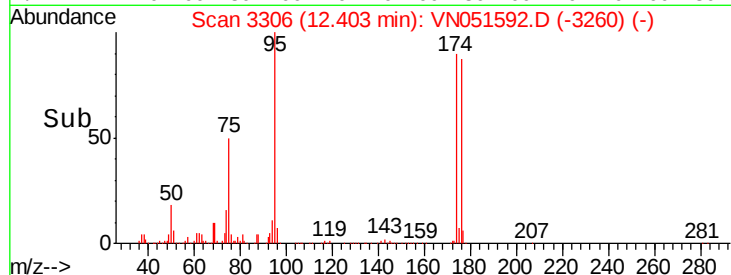
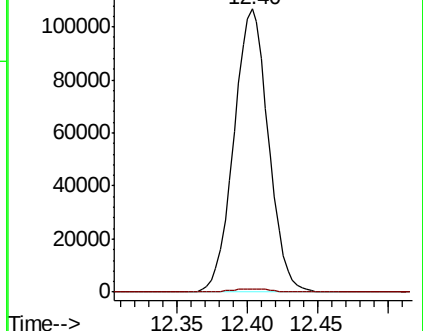
75 100

77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN051592.D (-3260) (-)

Ion 77.00 (76.70 to 77.70): VN051592.D (-3260) (-)



#80

1,3,5-Trimethylbenzene

Concen: 0.229 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN051592.D

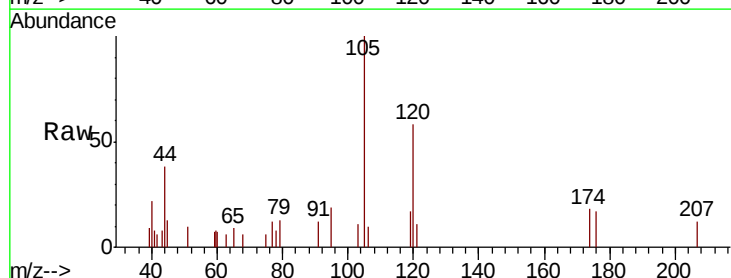
Acq: 27 Sep 2018 19:18

Tgt Ion: 105 Resp: 4469

Ion Ratio Lower Upper

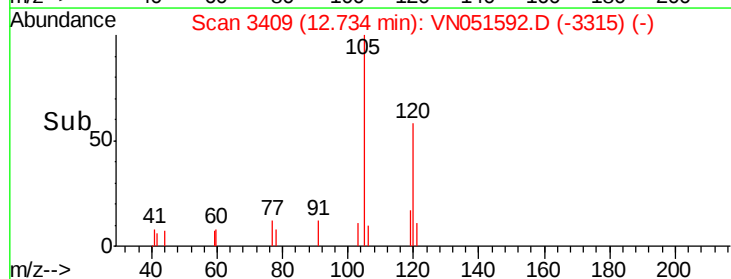
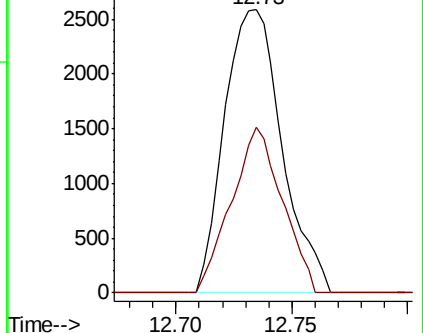
105 100

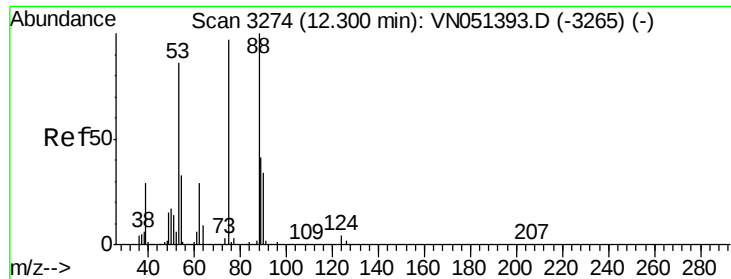
120 51.6 24.8 74.4



Abundance Ion 105.00 (104.70 to 105.70): VN051592.D (-3315) (-)

Ion 120.00 (119.70 to 120.70): VN051592.D (-3315) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 119.549 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN051592.D

Acq: 27 Sep 2018 19:18

Instrument :

MSVOA_N

ClientSampleId :

PB113263ZHE#04

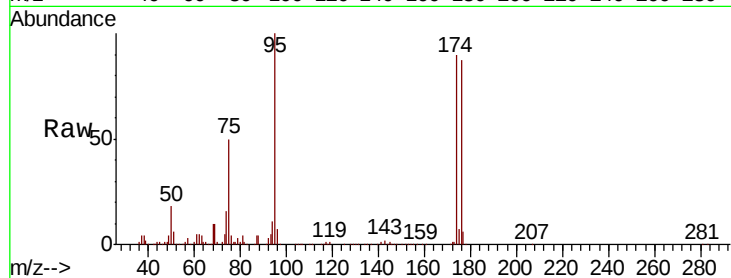
Tot Ion: 75 Resp: 182789

Ion Ratio Lower Upper

75 100

53 0.2 73.9 110.9#

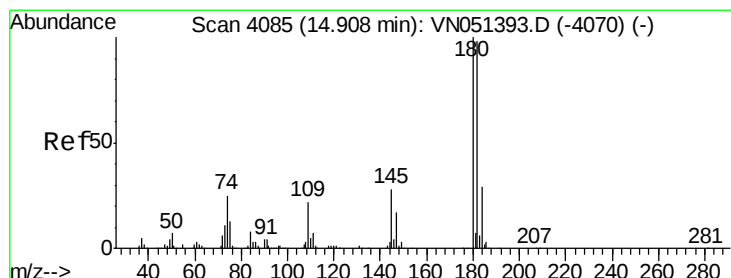
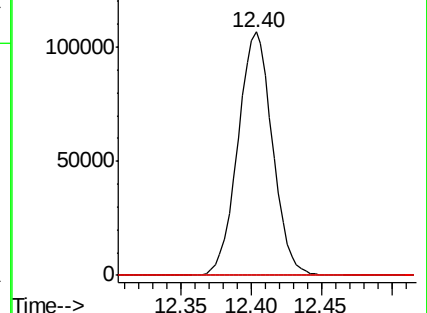
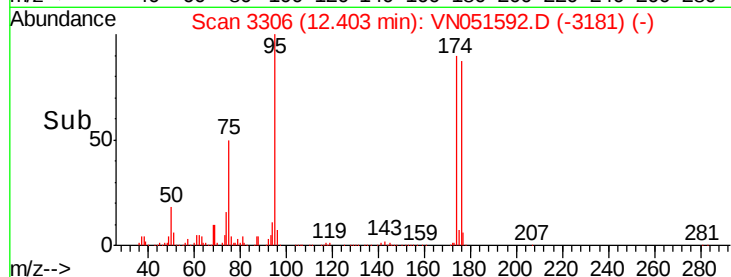
89 0.0 36.7 55.1#



Abundance Ion 74.90 (74.60 to 75.60): VN051592.D (-3181) (-)

Ion 53.00 (52.70 to 53.70): VN051592.D (-3181) (-)

Ion 88.90 (88.60 to 89.60): VN051592.D (-3181) (-)



#93

1,2,4-Trichlorobenzene

Concen: 5.992 ug/l

RT: 14.91 min Scan# 4087

Delta R.T. 0.01 min

Lab File: VN051592.D

Acq: 27 Sep 2018 19:18

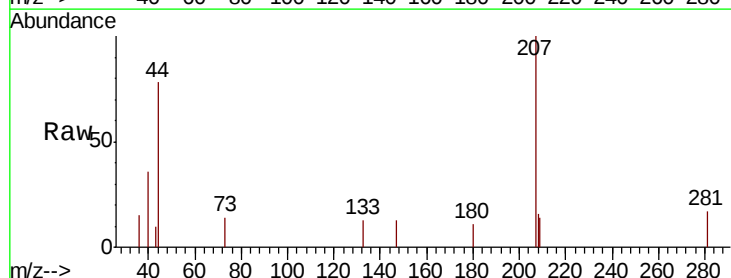
Tgt Ion: 180 Resp: 65

Ion Ratio Lower Upper

180 100

182 0.0 48.5 145.6#

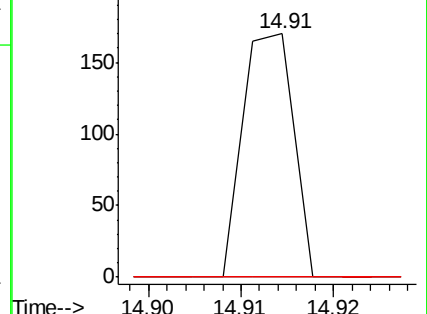
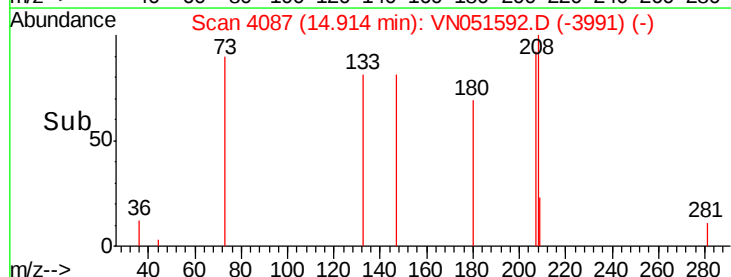
145 0.0 14.1 42.4#

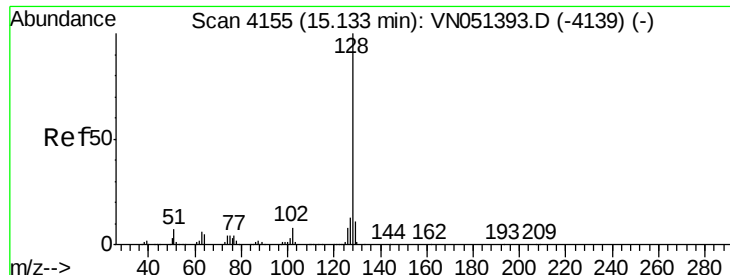


Abundance Ion 179.80 (179.50 to 180.50): VN051592.D (-3991) (-)

Ion 181.80 (181.50 to 182.50): VN051592.D (-3991) (-)

Ion 144.80 (144.50 to 145.50): VN051592.D (-3991) (-)





#95

Napthalene

Concen: 8.072 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.00 min

Lab File: VN051592.D

Acq: 27 Sep 2018 19:18

Instrument :

MSVOA_N

ClientSampleId :

PB113263ZHE#04

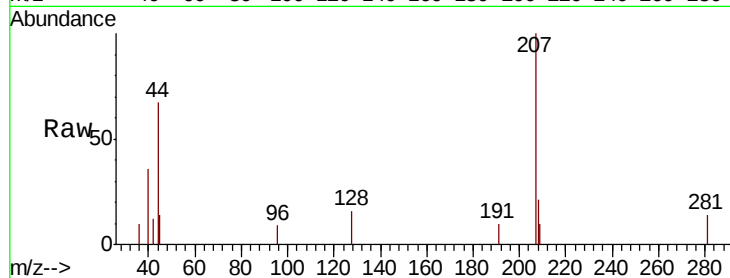
Tot Ion:128 Resp: 344

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

