

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN110518\
 Data File : VN052166.D
 Acq On : 5 Nov 2018 23:54
 Operator : MD\SY
 Sample : J5815-04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 26 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 HL-R47183-RT

Quant Time: Nov 06 05:18:38 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N110518W.M
 Quant Title : SW846 8260
 QLast Update : Mon Nov 05 22:32:25 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	317677	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	579720	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	578423	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	240201	50.00	ug/l	0.00

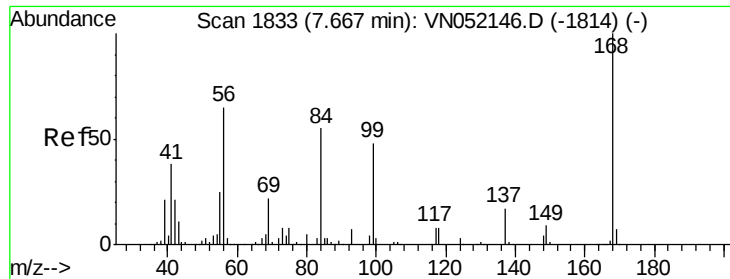
System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	253445	67.28	ug/l	0.00
Spiked Amount	50.000		Recovery	=	134.56%	
35) Dibromofluoromethane	7.59	113	220002	61.12	ug/l	0.00
Spiked Amount	50.000		Recovery	=	122.24%	
50) Toluene-d8	10.09	98	863842	62.08	ug/l	0.00
Spiked Amount	50.000		Recovery	=	124.16%	
62) 4-Bromofluorobenzene	12.40	95	295723	64.74	ug/l	0.00
Spiked Amount	50.000		Recovery	=	129.48%	

Target Compounds

						Qvalue
8) Diethyl Ether	3.42	74	779	0.429	ug/l	55
11) Tert butyl alcohol	4.77	59	107	0.653	ug/l #	79
13) Acrolein	3.60	56	87	32.456	ug/l #	39
16) Acetone	3.82	43	2873	3.366	ug/l	95
18) Methyl Acetate	4.33	43	3001	1.107	ug/l #	89
20) Methylene Chloride	4.55	84	81434	22.964	ug/l	94
25) 2-Butanone	6.84	43	910	0.688	ug/l #	48
29) Tetrahydrofuran	7.21	42	479	0.585	ug/l #	67
31) Cyclohexane	7.67	56	8536	Below Cal	#	44
36) 1,1-Dichloropropene	7.67	75	27219	5.308	ug/l #	52
38) Carbon Tetrachloride	7.66	117	33066	6.449	ug/l #	17
41) Methacrylonitrile	7.16	41	253	1.533	ug/l #	1
43) Isopropyl Acetate	8.17	43	191001	32.641	ug/l #	86
48) Methyl methacrylate	9.18	41	4904	1.741	ug/l #	17
54) cis-1,3-Dichloropropene	9.90	75	1295	0.228	ug/l #	54
59) 2-Hexanone	10.77	43	8050	3.741	ug/l #	58
68) m/p-Xylenes	11.62	106	1708	0.226	ug/l	97
71) Bromoform	12.40	173	3570	4.072	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	154448	40.858	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	154448	146.298	ug/l #	10
84) 1,2,4-Trimethylbenzene	13.04	105	4476	0.306	ug/l	98
93) 1,2,4-Trichlorobenzene	14.66	180	36	2.246	ug/l #	12
95) Naphthalene	15.13	128	2487	0.338	ug/l #	72
96) 1,2,3-Trichlorobenzene	15.31	180	60	1.750	ug/l #	13

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN052166.D

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MSVOA_N

ClientSampleId :

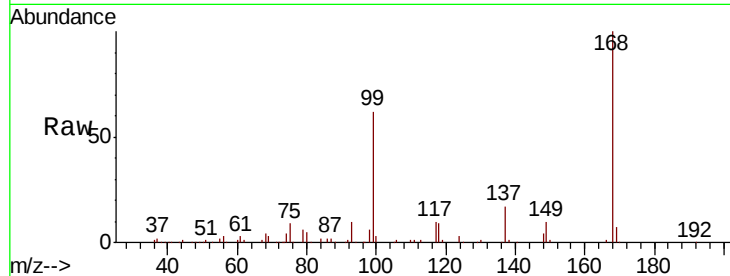
HL-R47183-RT

Tot Ion:168 Resp: 317677

Ion Ratio Lower Upper

168 100

99 61.7 45.4 68.2



Abundance Ion 167.90 (167.60 to 168.60): VN052166.D (-1740) (-)

Ion 98.90 (98.60 to 99.60): VN052166.D (-1740) (-)

7.67

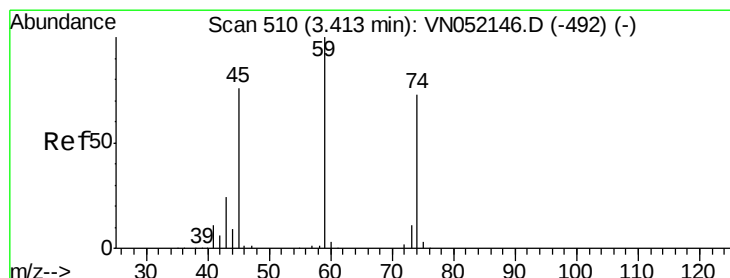
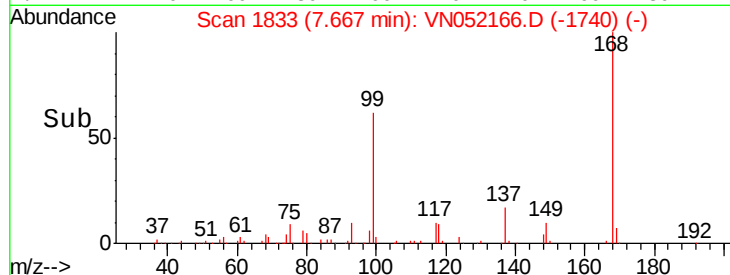
150000

100000

50000

0

Time--> 7.55 7.60 7.65 7.70 7.75



#8

Diethyl Ether

Concen: 0.429 ug/l

RT: 3.42 min Scan# 512

Delta R.T. 0.01 min

Lab File: VN052166.D

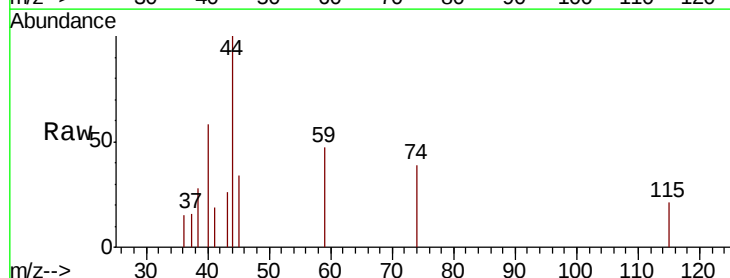
Acq: 5 Nov 2018 23:54

Tgt Ion: 74 Resp: 779

Ion Ratio Lower Upper

74 100

45 142.4 49.1 147.3



Abundance Ion 74.00 (73.70 to 74.70): VN052166.D (-417) (-)

Ion 45.00 (44.70 to 45.70): VN052166.D (-417) (-)

3.42

600

500

400

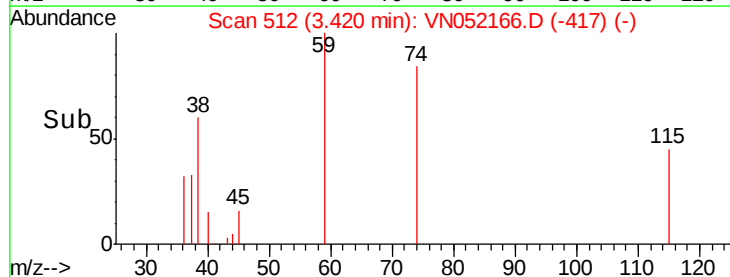
300

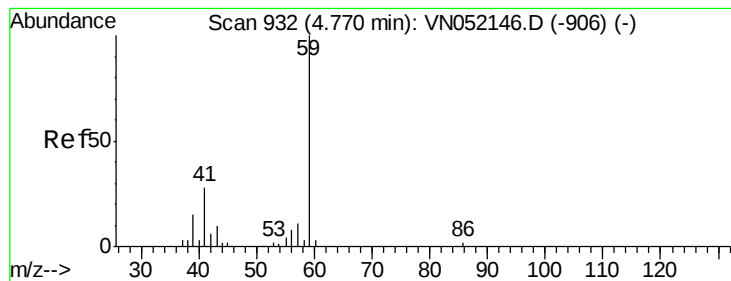
200

100

0

Time--> 3.40 3.45



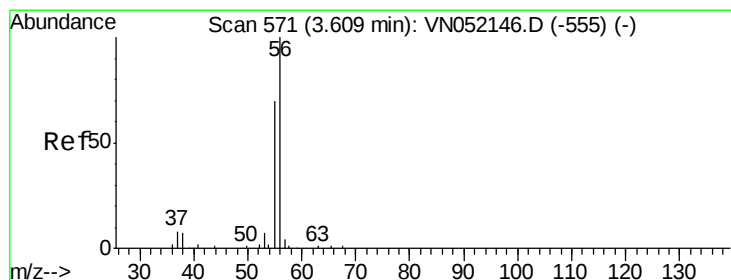
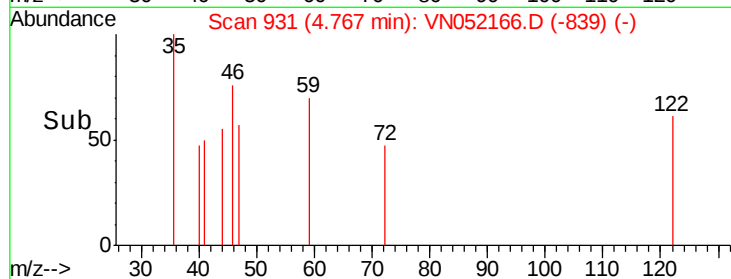
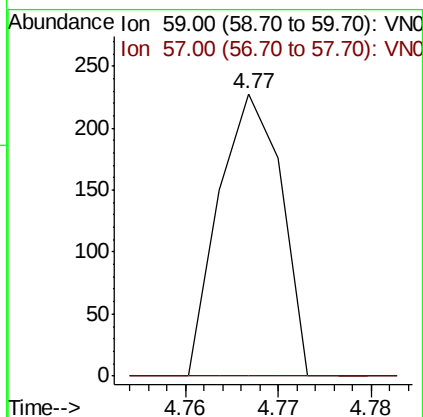
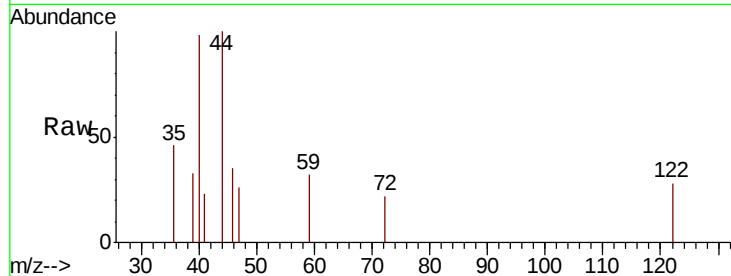


#11

Tert butyl alcohol
 Concen: 0.653 ug/l
 RT: 4.77 min Scan# 931
 Delta R.T. -0.00 min
 Lab File: VN052166.D
 Acq: 5 Nov 2018 23:54

Instrument :
 MSVOA_N
 ClientSampleId :
 HL-R47183-RT

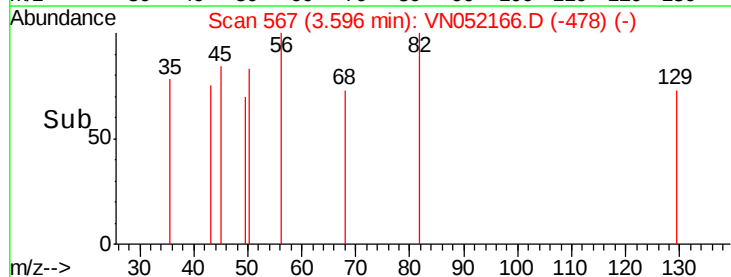
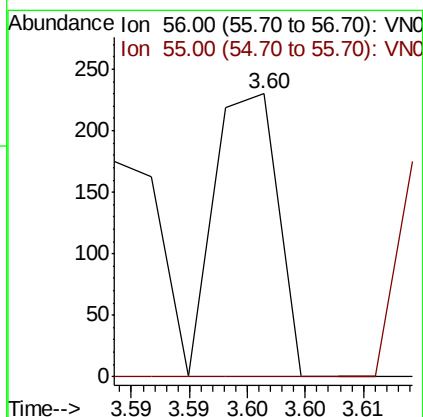
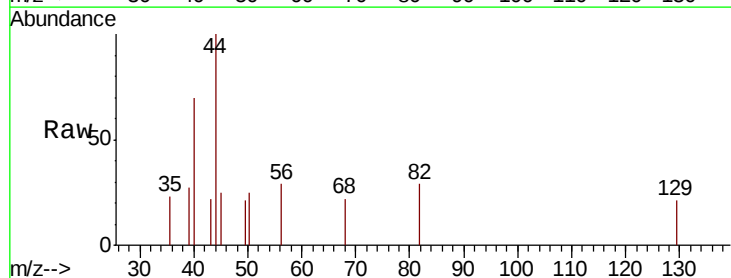
Tot Ion: 59 Resp: 107
 Ion Ratio Lower Upper
 59 100
 57 0.0 5.7 8.5#

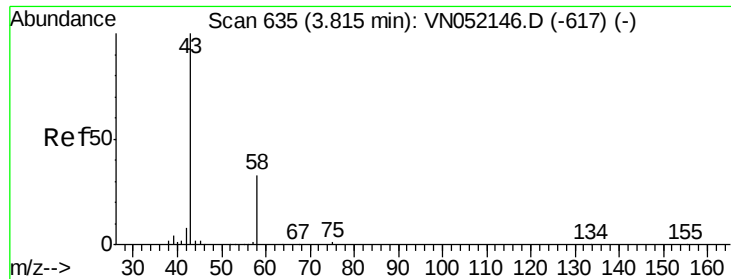


#13

Acrolein
 Concen: 32.456 ug/l
 RT: 3.60 min Scan# 567
 Delta R.T. -0.01 min
 Lab File: VN052166.D
 Acq: 5 Nov 2018 23:54

Tgt Ion: 56 Resp: 87
 Ion Ratio Lower Upper
 56 100
 55 120.7 56.6 84.8#





#16

Acetone

Concen: 3.366 ug/l

RT: 3.82 min Scan# 635

Delta R.T. -0.00 min

Lab File: VN052166.D

Acq: 5 Nov 2018 23:54

Instrument :

MSVOA_N

ClientSampled :

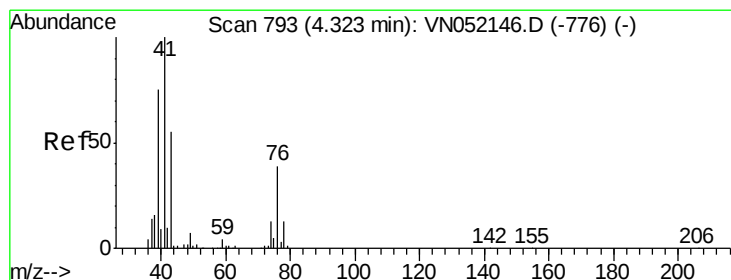
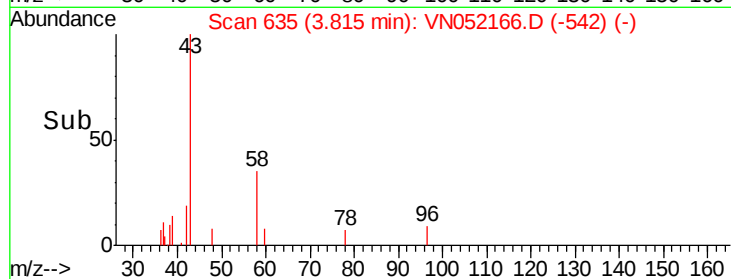
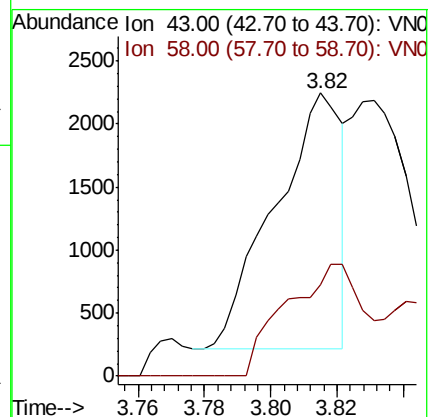
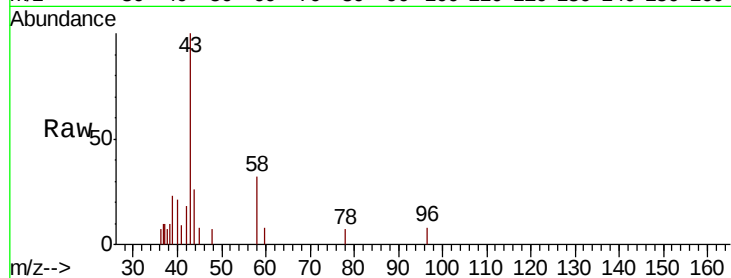
HL-R47183-RT

Tot Ion: 43 Resp: 2873

Ion Ratio Lower Upper

43 100

58 35.5 26.2 39.2



#18

Methyl Acetate

Concen: 1.107 ug/l

RT: 4.33 min Scan# 795

Delta R.T. 0.01 min

Lab File: VN052166.D

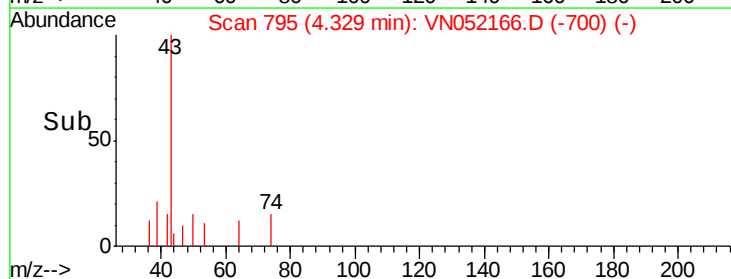
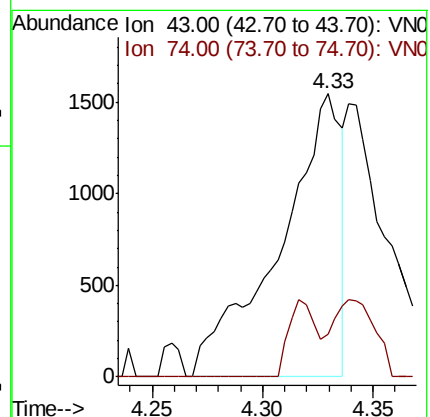
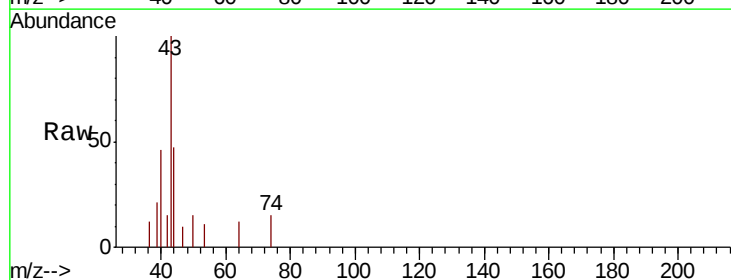
Acq: 5 Nov 2018 23:54

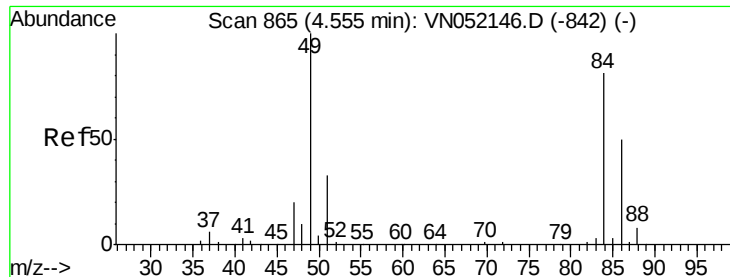
Tgt Ion: 43 Resp: 3001

Ion Ratio Lower Upper

43 100

74 18.6 19.3 28.9#

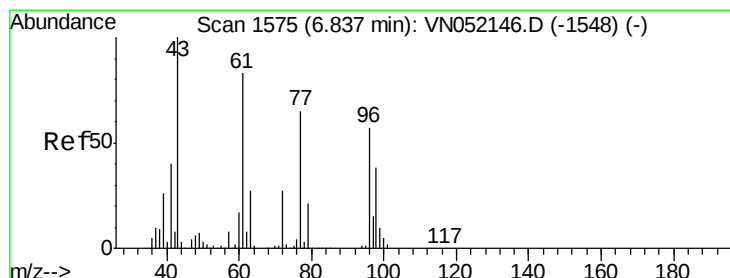
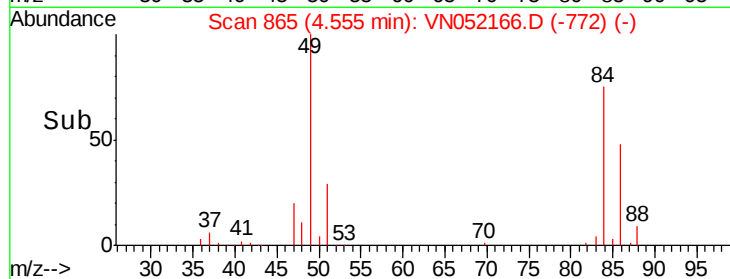
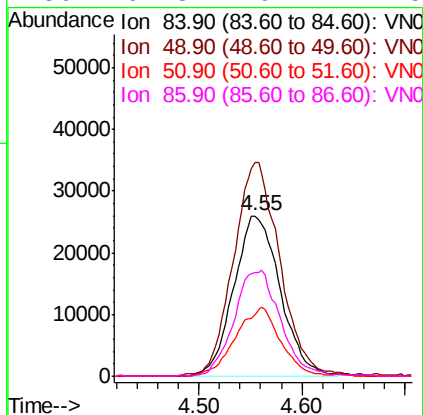
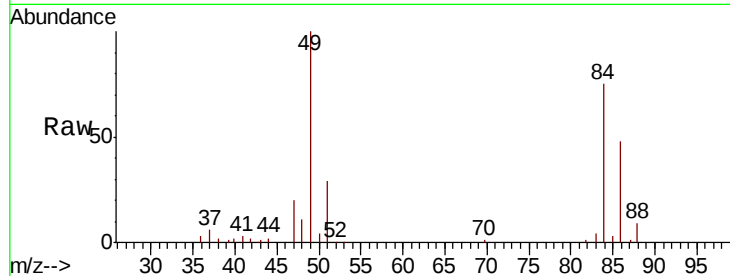




#20
Methvlene Chloride
Concen: 22.964 ug/l
RT: 4.55 min Scan# 865
Delta R.T. -0.00 min
Lab File: VN052166.D
Acq: 5 Nov 2018 23:54

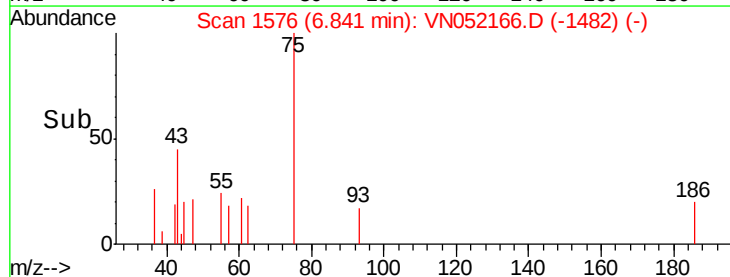
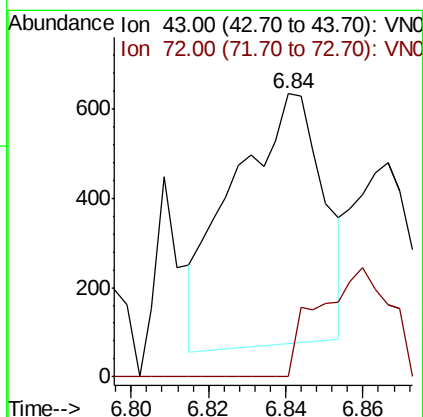
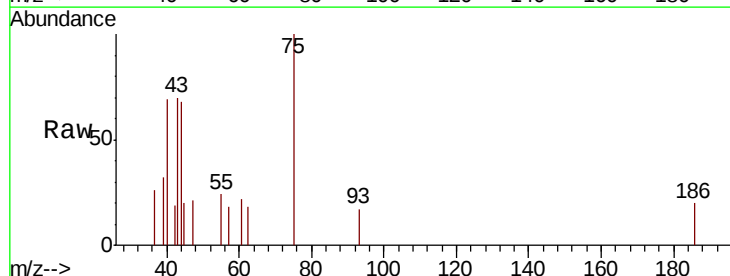
Instrument :
MSVOA_N
ClientSampled :
HL-R47183-RT

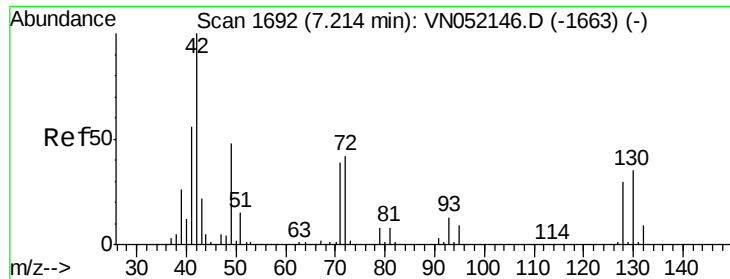
Tot Ion: 84 Resp: 81434
Ion Ratio Lower Upper
84 100
49 131.4 98.4 147.6
51 38.1 32.5 48.7
86 64.3 49.7 74.5



#25
2-Butanone
Concen: 0.688 ug/l
RT: 6.84 min Scan# 1576
Delta R.T. 0.00 min
Lab File: VN052166.D
Acq: 5 Nov 2018 23:54

Tgt Ion: 43 Resp: 910
Ion Ratio Lower Upper
43 100
72 0.0 21.4 32.2#





#29

Tetrahydrofuran

Concen: 0.585 ug/l

RT: 7.21 min Scan# 1690

Delta R.T. -0.01 min

Lab File: VN052166.D

Acq: 5 Nov 2018 23:54

Instrument :

MSVOA_N

ClientSampleId :

HL-R47183-RT

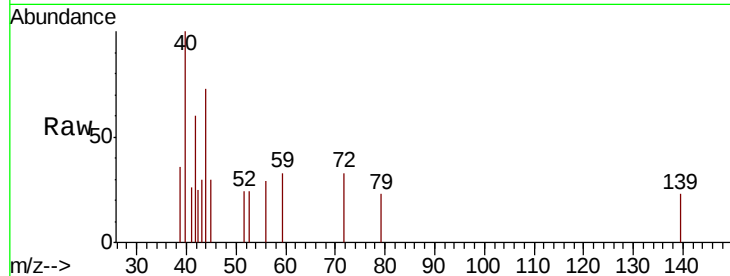
Tot Ion: 42 Resp: 479

Ion Ratio Lower Upper

42 100

72 38.4 32.3 48.5

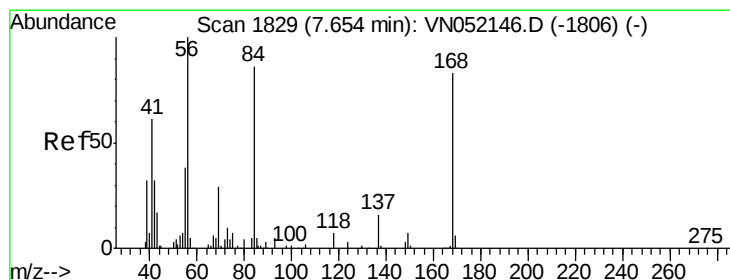
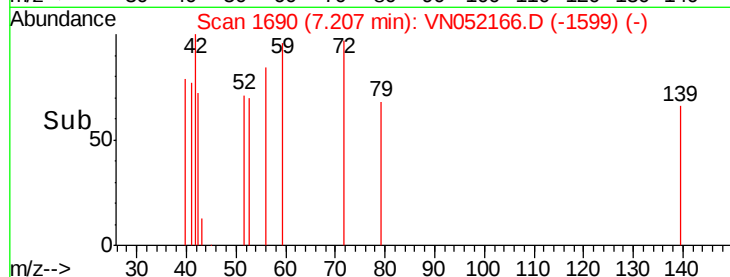
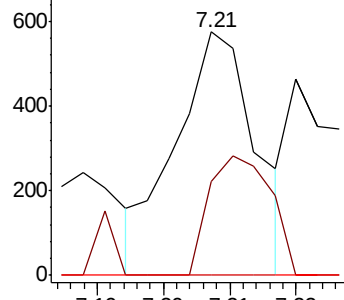
71 0.0 31.0 46.6#



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: Below Cal

RT: 7.67 min Scan# 1834

Delta R.T. 0.02 min

Lab File: VN052166.D

Acq: 5 Nov 2018 23:54

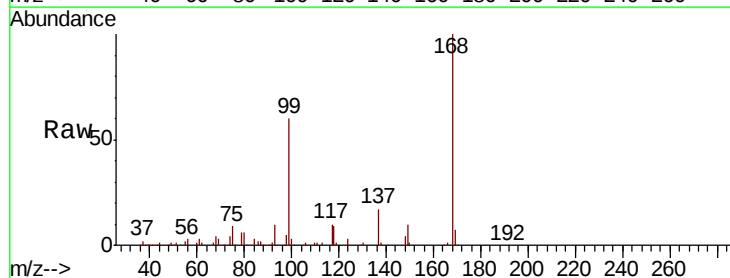
Tgt Ion: 56 Resp: 8536

Ion Ratio Lower Upper

56 100

69 125.0 23.5 35.3#

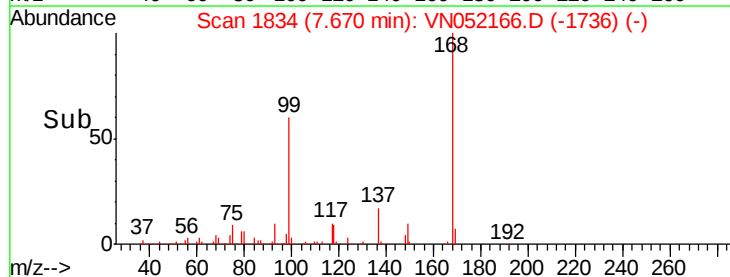
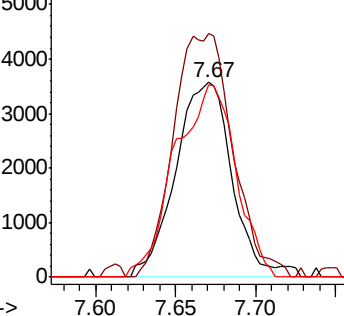
84 98.6 68.7 103.1

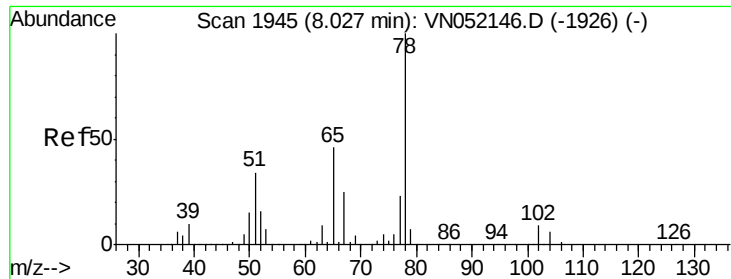


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

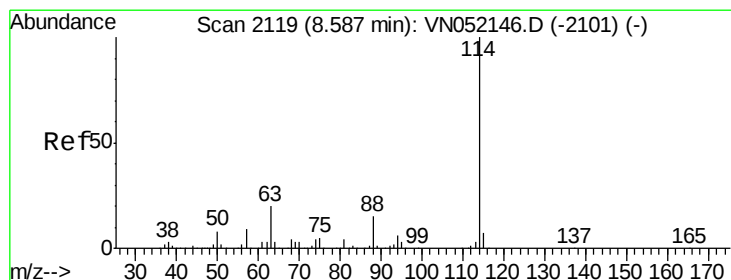
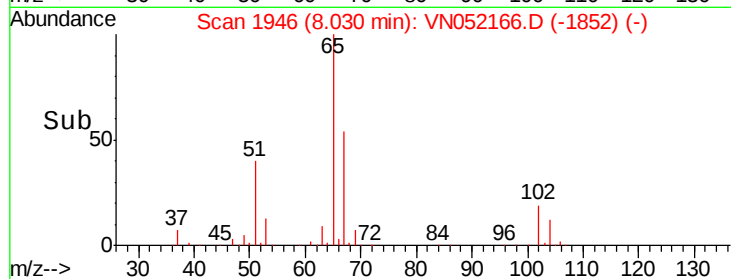
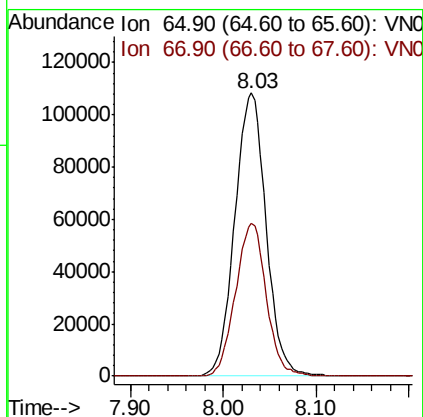
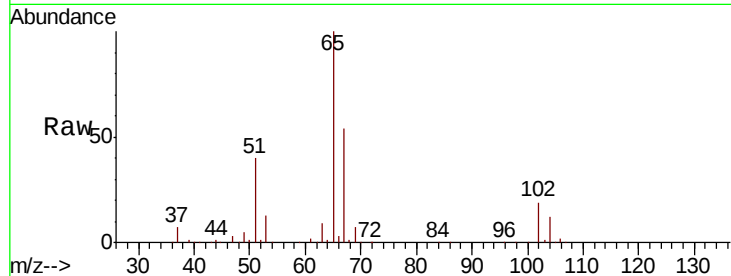




#33
 1,2-Dichloroethane-d4
 Concen: Below ug/l
 RT: 8.03 min Scan# 1946
 Delta R.T. 0.00 min
 Lab File: VN052166.D
 Acq: 5 Nov 2018 23:54

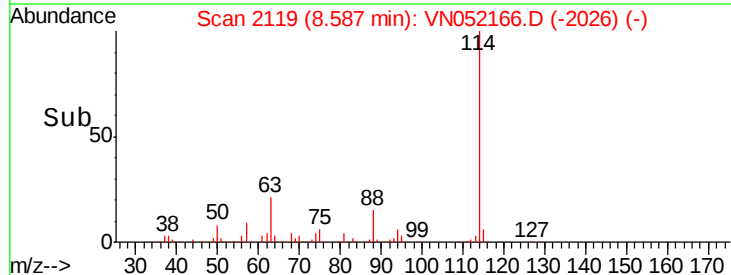
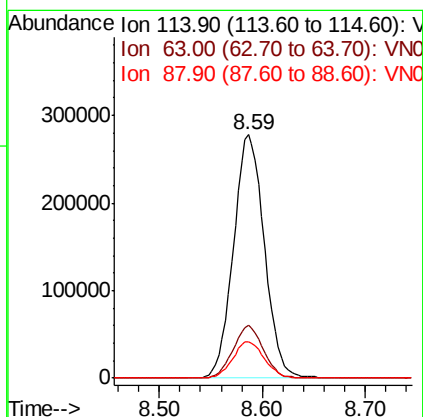
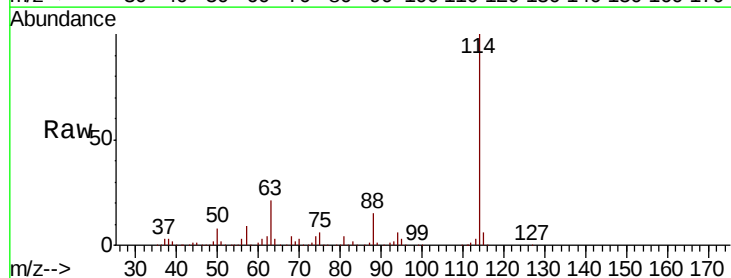
Instrument :
 MSVOA_N
 ClientSampleId :
 HL-R47183-RT

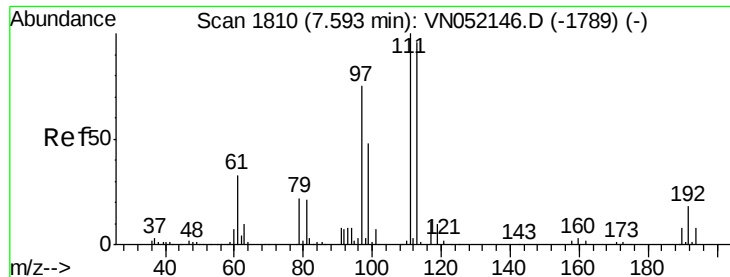
Tot Ion: 65 Resp: 253445
 Ion Ratio Lower Upper
 65 100
 67 52.9 0.0 107.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN052166.D
 Acq: 5 Nov 2018 23:54

Tgt Ion: 114 Resp: 579720
 Ion Ratio Lower Upper
 114 100
 63 21.5 0.0 40.0
 88 14.9 0.0 31.0

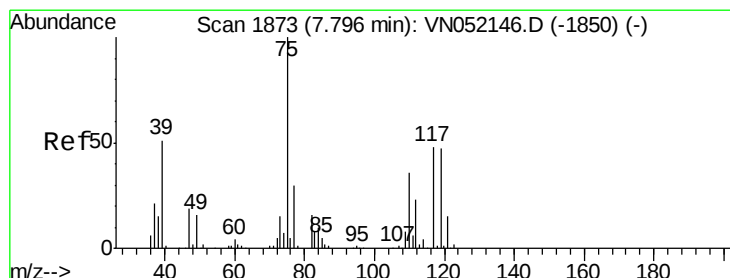
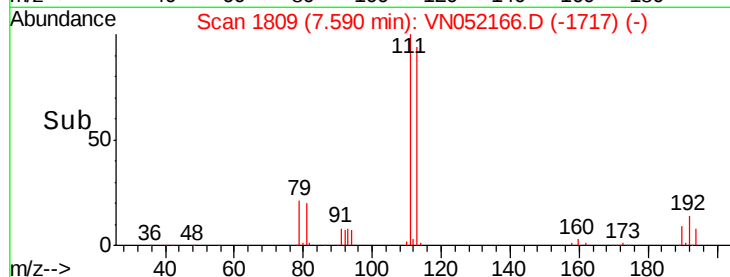
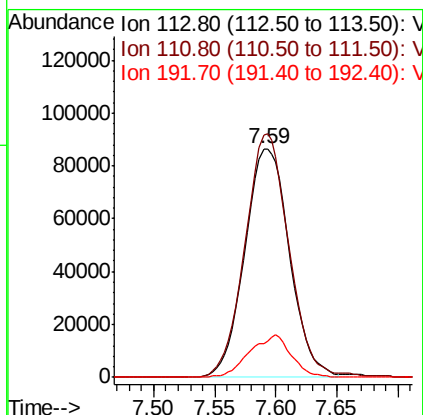
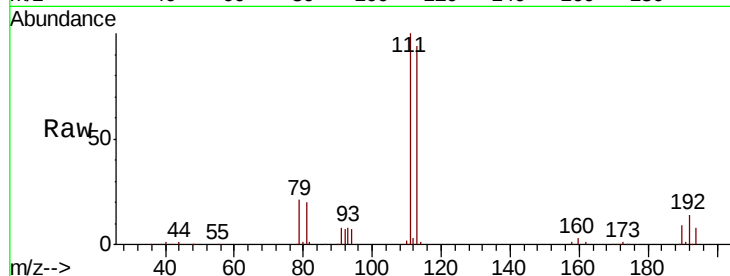




#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. -0.00 min
 Lab File: VN052166.D
 Acq: 5 Nov 2018 23:54

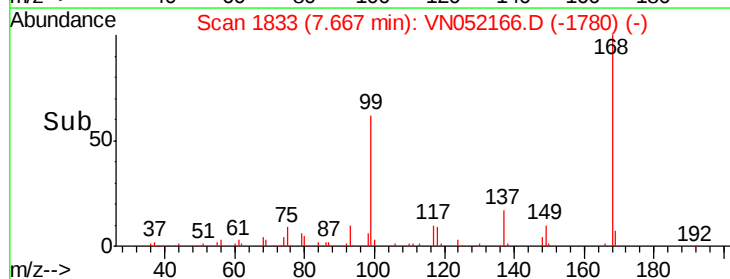
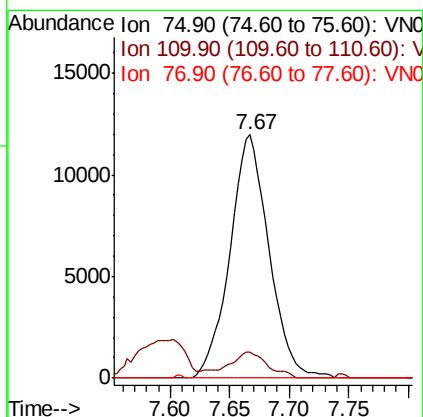
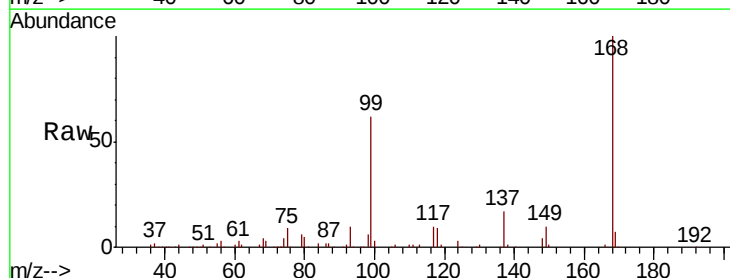
Instrument :
 MSVOA_N
 ClientSampleId :
 HL-R47183-RT

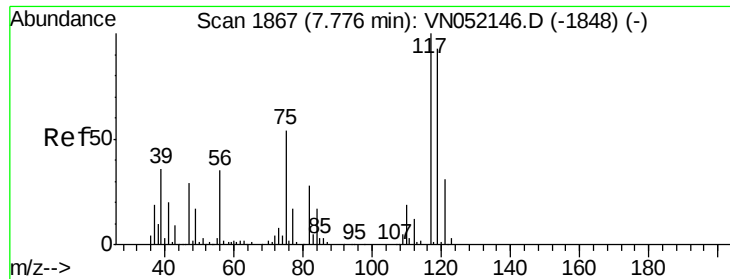
Tot Ion:113 Resp: 220002
 Ion Ratio Lower Upper
 113 100
 111 104.9 81.7 122.5
 192 17.3 14.2 21.4



#36
 1,1-Dichloropropene
 Concen: 5.308 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN052166.D
 Acq: 5 Nov 2018 23:54

Tgt Ion: 75 Resp: 27219
 Ion Ratio Lower Upper
 75 100
 110 11.2 17.8 53.5#
 77 0.0 24.0 36.0#





#38

Carbon Tetrachloride

Concen: 6.449 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.11 min

Lab File: VN052166.D

Acq: 5 Nov 2018 23:54

Instrument :

MSVOA_N

ClientSampleId :

HL-R47183-RT

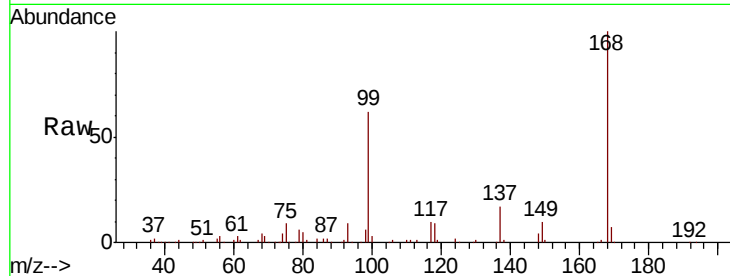
Tot Ion:117 Resp: 33066

Ion Ratio Lower Upper

117 100

119 5.1 74.7 112.1#

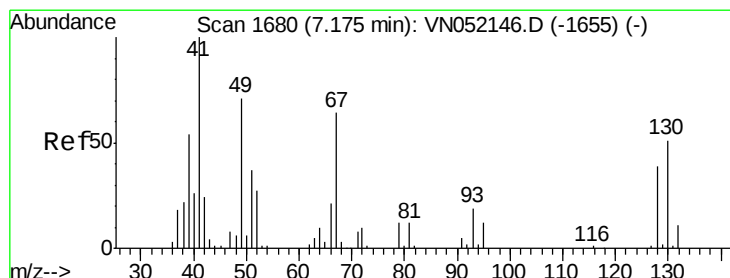
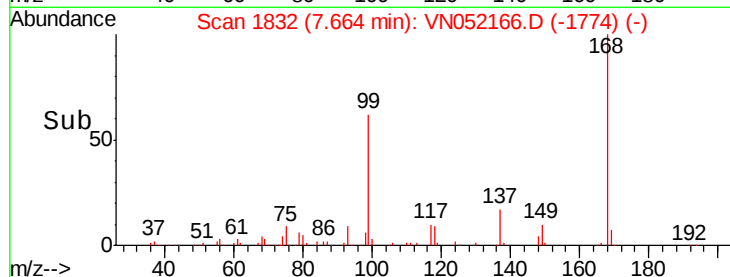
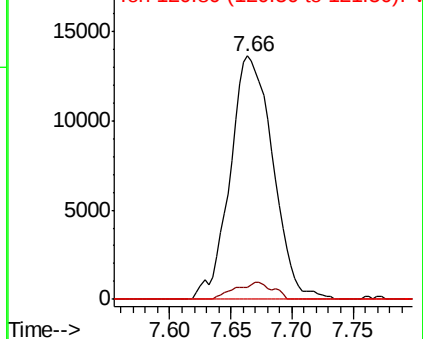
121 0.0 24.5 36.7#



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



#41

Methacrylonitrile

Concen: 1.533 ug/l

RT: 7.16 min Scan# 1674

Delta R.T. -0.02 min

Lab File: VN052166.D

Acq: 5 Nov 2018 23:54

Tgt Ion: 41 Resp: 253

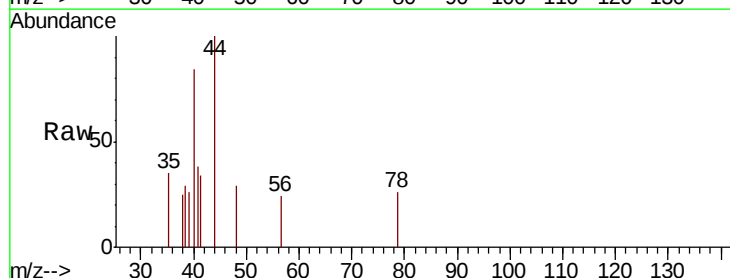
Ion Ratio Lower Upper

41 100

39 163.6 49.6 74.4#

67 0.0 65.4 98.2#

52 0.0 27.2 40.8#

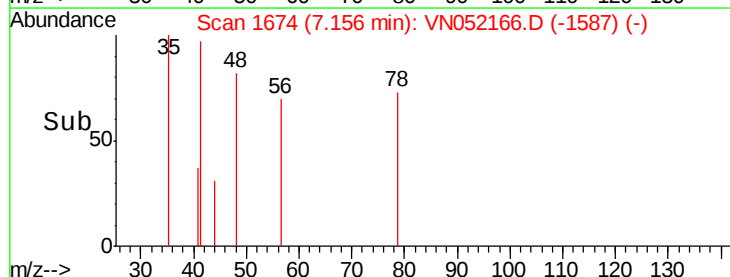
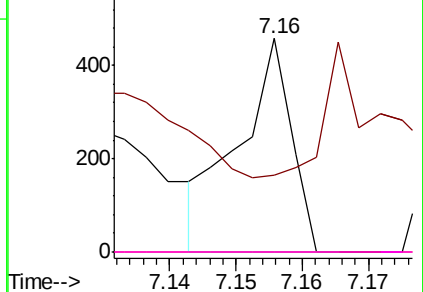


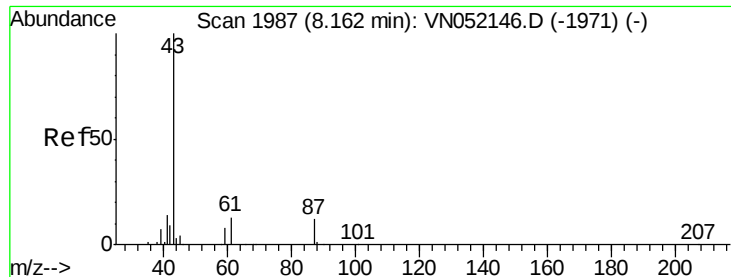
Abundance Ion 41.00 (40.70 to 41.70): VNC

Ion 39.00 (38.70 to 39.70): VNC

Ion 67.00 (66.70 to 67.70): VNC

Ion 52.00 (51.70 to 52.70): VNC





#43

Isopropyl Acetate

Concen: 32.641 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN052166.D

Acq: 5 Nov 2018 23:54

Instrument :

MSVOA_N

ClientSampleId :

HL-R47183-RT

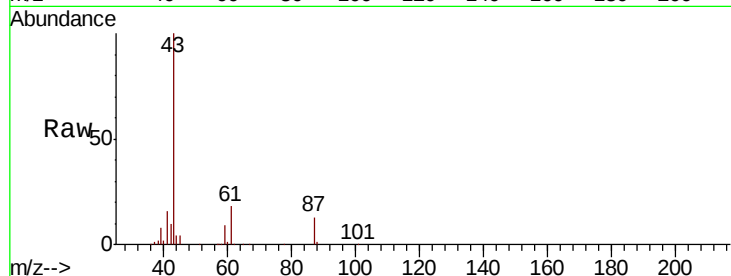
Tot Ion: 43 Resp: 191001

Ion Ratio Lower Upper

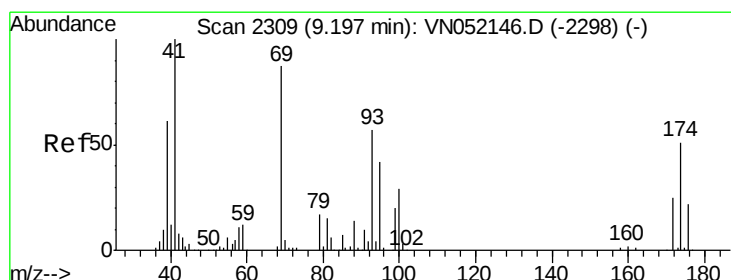
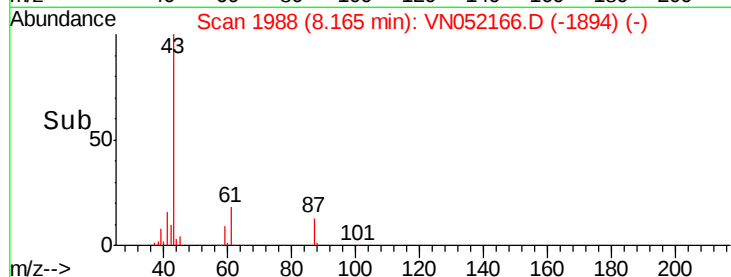
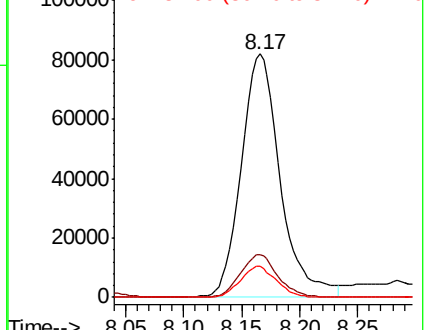
43 100

61 17.0 21.5 32.3#

87 11.9 10.2 15.2



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



#48

Methyl methacrylate

Concen: 1.741 ug/l

RT: 9.18 min Scan# 2304

Delta R.T. -0.02 min

Lab File: VN052166.D

Acq: 5 Nov 2018 23:54

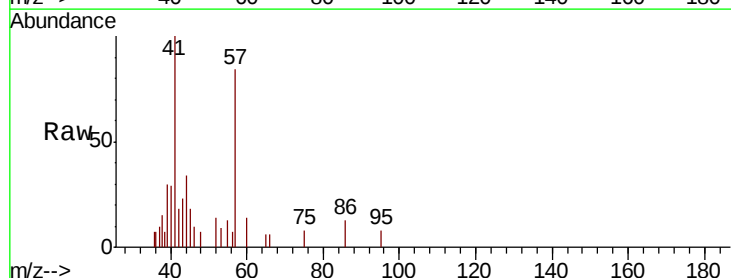
Tgt Ion: 41 Resp: 4904

Ion Ratio Lower Upper

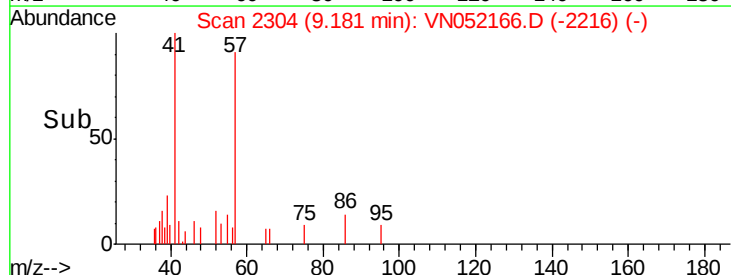
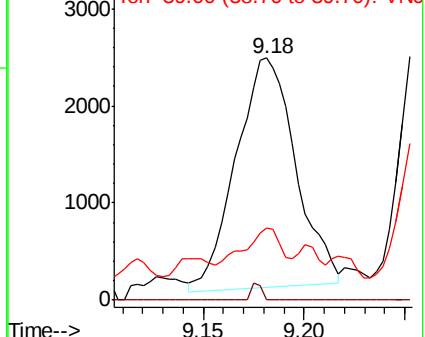
41 100

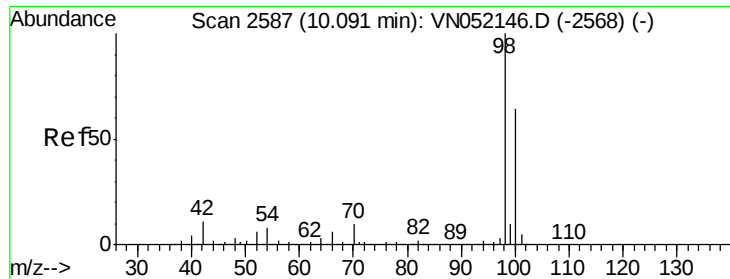
69 1.3 69.7 104.5#

39 9.6 50.6 76.0#



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





#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN052166.D

Acq: 5 Nov 2018 23:54

Instrument :

MSVOA_N

ClientSampled :

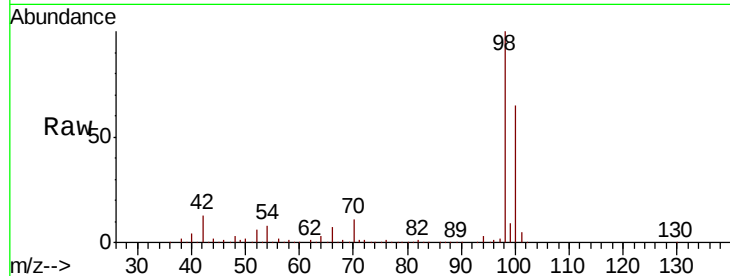
HL-R47183-RT

Tot Ion: 98 Resp: 863842

Ion Ratio Lower Upper

98 100

100 63.9 50.5 75.7



Abundance Ion 98.00 (97.70 to 98.70): VN052166.D (-2494) (-)

Ion 100.00 (99.70 to 100.70): VN052166.D (-2494) (-)

10.09

500000

400000

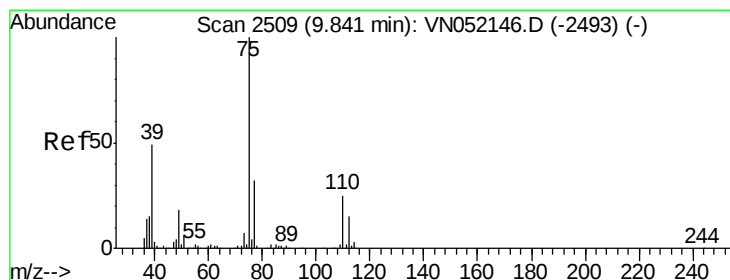
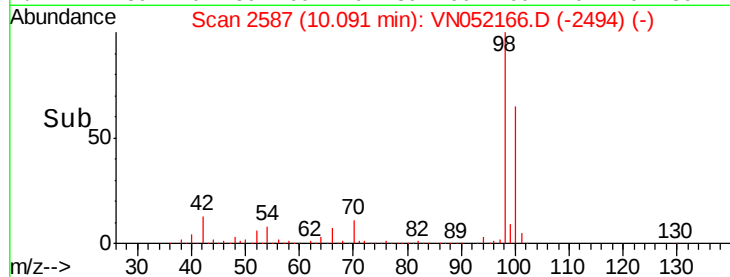
300000

200000

100000

0

Time-->



#54

cis-1,3-Dichloropropene

Concen: 0.228 ug/l

RT: 9.90 min Scan# 2528

Delta R.T. 0.06 min

Lab File: VN052166.D

Acq: 5 Nov 2018 23:54

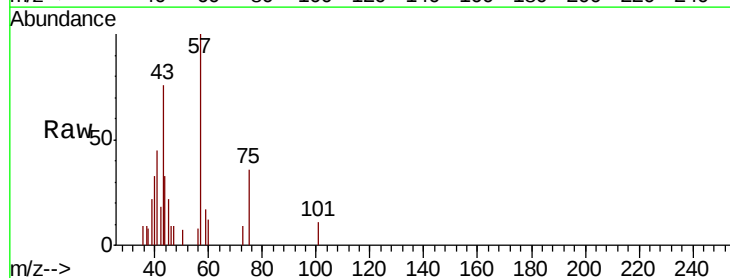
Tgt Ion: 75 Resp: 1295

Ion Ratio Lower Upper

75 100

77 0.0 25.8 38.8#

39 22.3 39.2 58.8#



Abundance Ion 74.90 (74.60 to 75.60): VN052166.D (-2416) (-)

Ion 76.90 (76.60 to 77.60): VN052166.D (-2416) (-)

Ion 39.00 (38.70 to 39.70): VN052166.D (-2416) (-)

9.90

1000

800

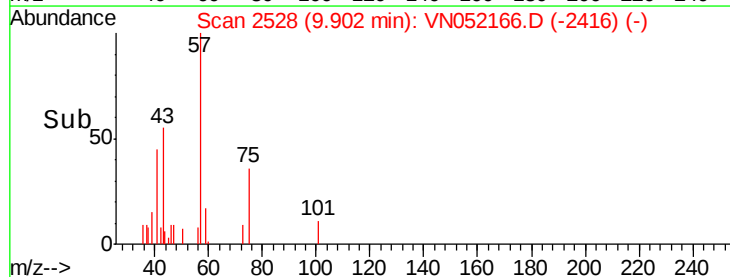
600

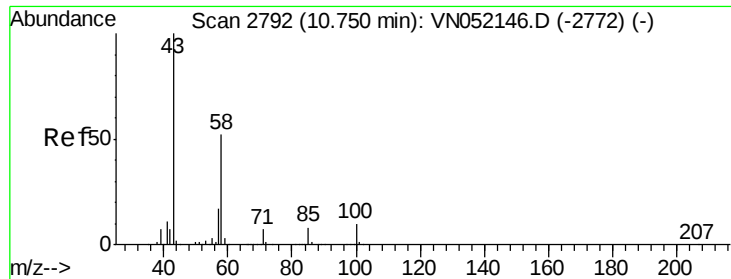
400

200

0

Time-->

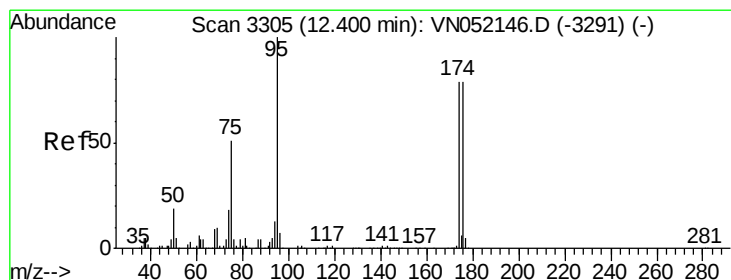
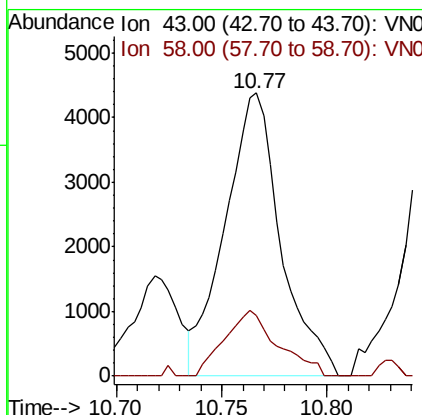
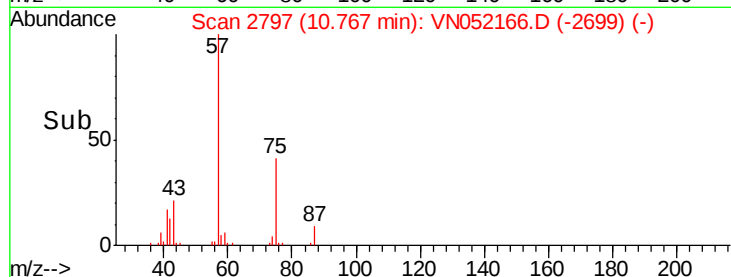
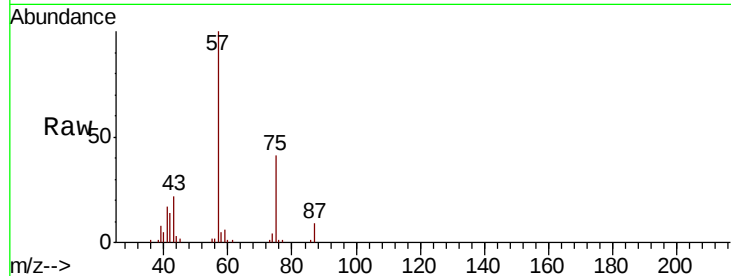




#59
2-Hexanone
Concen: 3.741 ug/l
RT: 10.77 min Scan# 2797
Delta R.T. 0.02 min
Lab File: VN052166.D
Acq: 5 Nov 2018 23:54

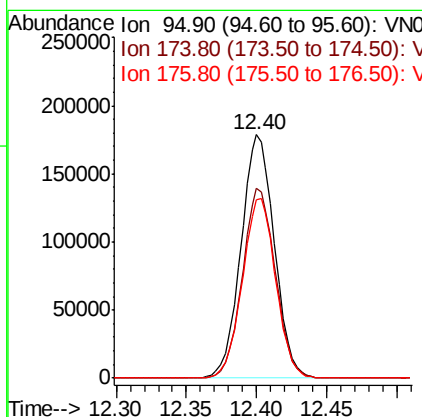
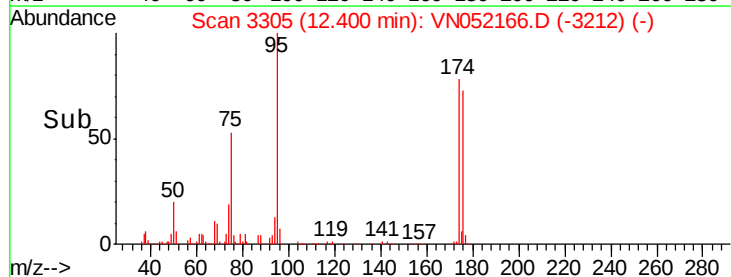
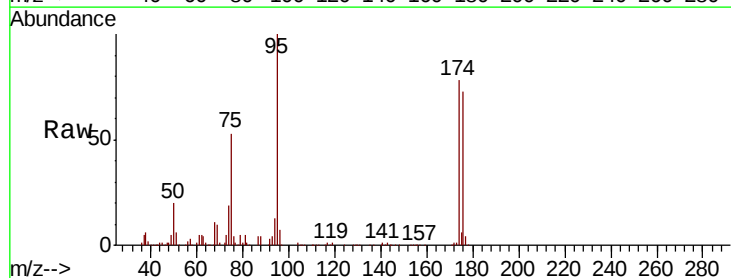
Instrument :
MSVOA_N
ClientSampleId :
HL-R47183-RT

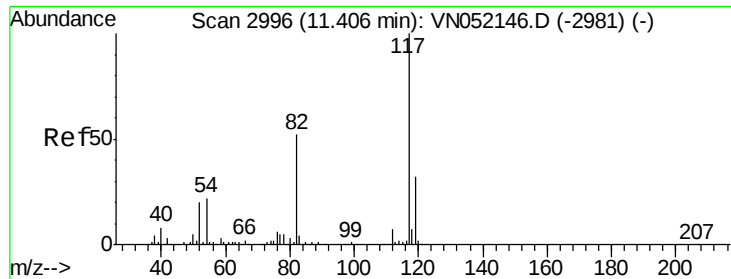
Tot Ion: 43 Resp: 8050
Ion Ratio Lower Upper
43 100
58 22.3 25.8 77.4#



#62
4-Bromofluorobenzene
Concen: Below ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN052166.D
Acq: 5 Nov 2018 23:54

Tgt Ion: 95 Resp: 295723
Ion Ratio Lower Upper
95 100
174 77.1 0.0 162.6
176 73.9 0.0 155.4

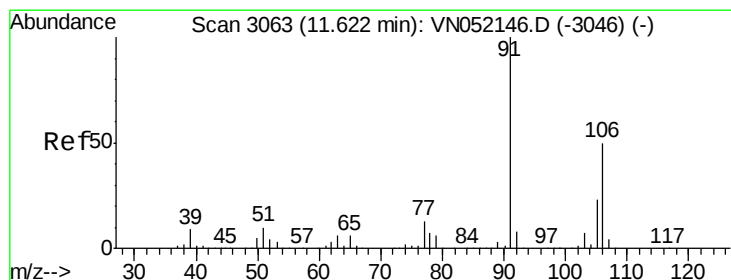
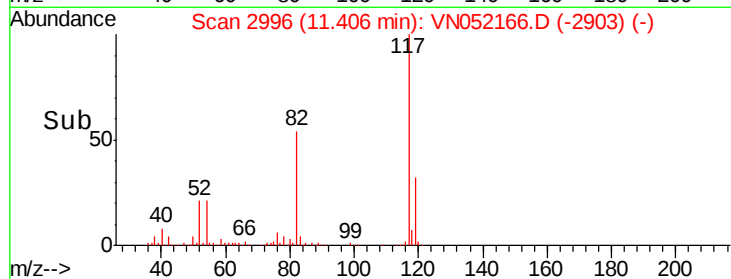
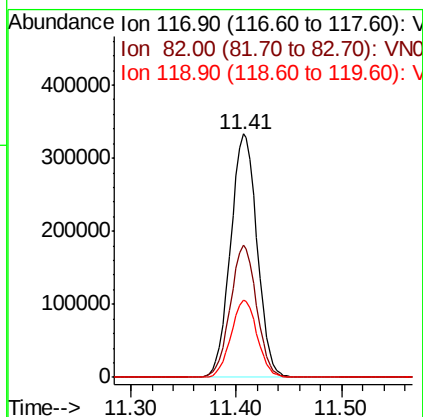
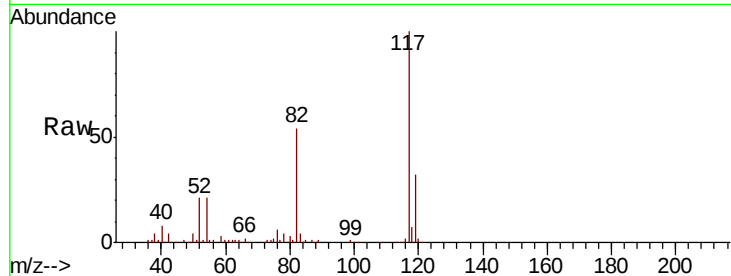




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN052166.D
Acq: 5 Nov 2018 23:54

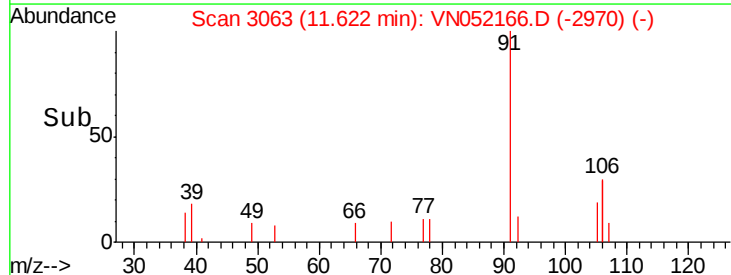
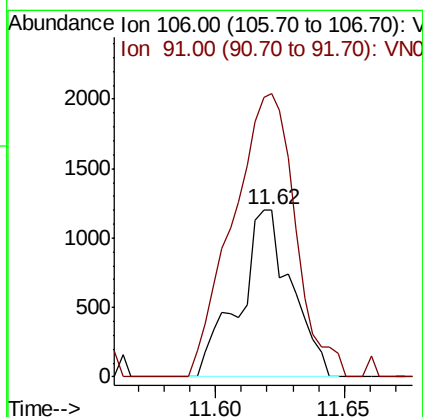
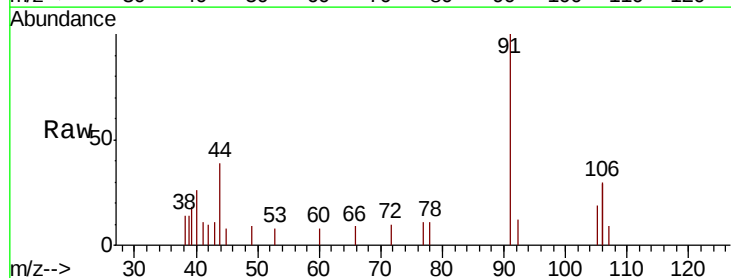
Instrument :
MSVOA_N
ClientSampleId :
HL-R47183-RT

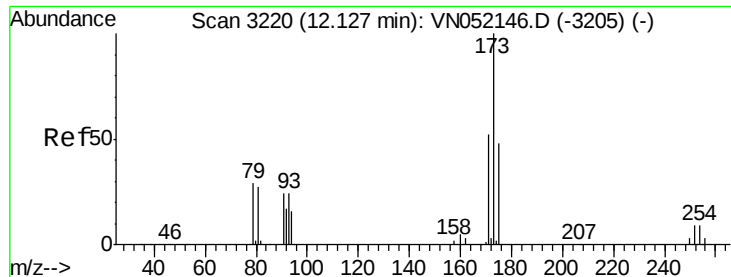
Tot Ion:117 Resp: 578423
Ion Ratio Lower Upper
117 100
82 54.5 41.9 62.9
119 31.9 25.7 38.5



#68
m/p-Xylenes
Concen: 0.226 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. -0.00 min
Lab File: VN052166.D
Acq: 5 Nov 2018 23:54

Tgt Ion:106 Resp: 1708
Ion Ratio Lower Upper
106 100
91 202.7 158.2 237.4





#71

Bromoform

Concen: 4.072 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN052166.D

Acq: 5 Nov 2018 23:54

Instrument :

MSVOA_N

ClientSampled :

HL-R47183-RT

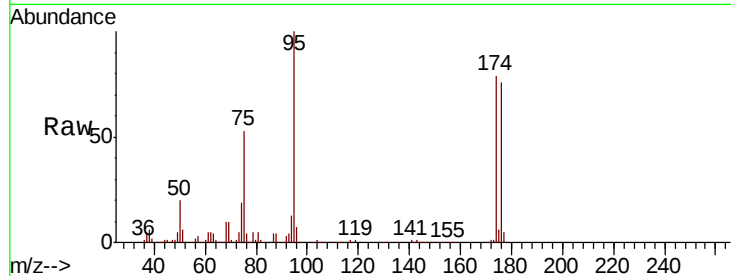
Tot Ion:173 Resp: 3570

Ion Ratio Lower Upper

173 100

175 450.2 24.8 74.4#

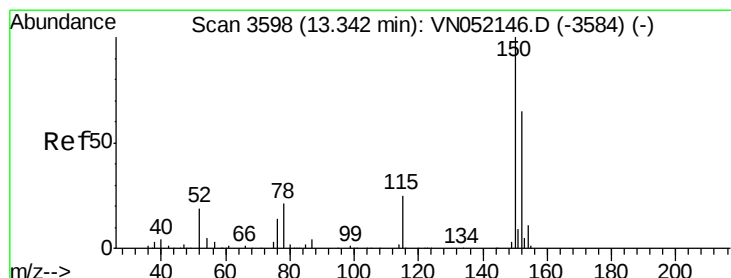
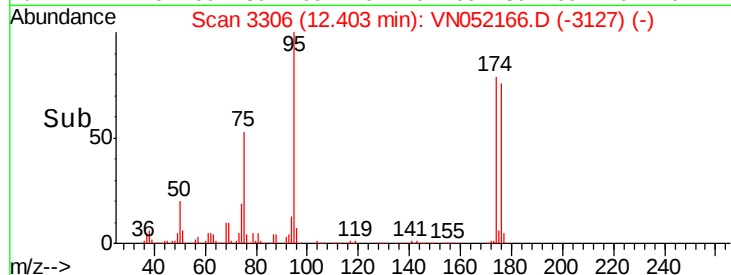
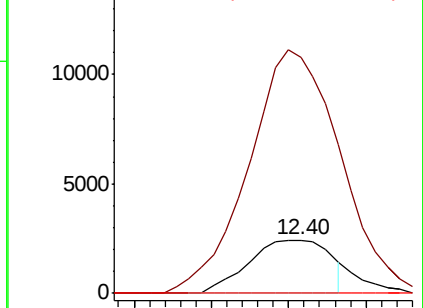
254 0.0 0.2 0.2#



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: 13.34 min Scan# 3598

Delta R.T. -0.00 min

Lab File: VN052166.D

Acq: 5 Nov 2018 23:54

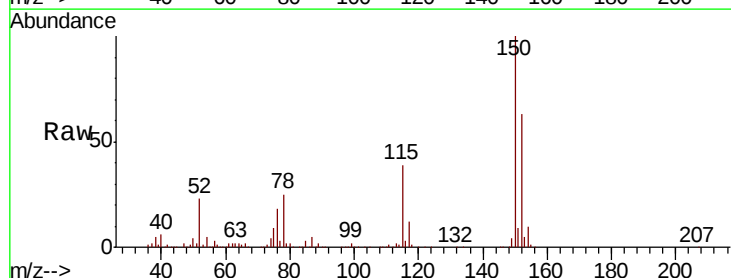
Tgt Ion:152 Resp: 240201

Ion Ratio Lower Upper

152 100

115 61.7 28.5 85.5

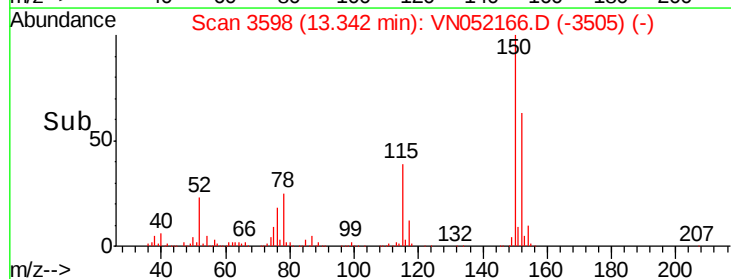
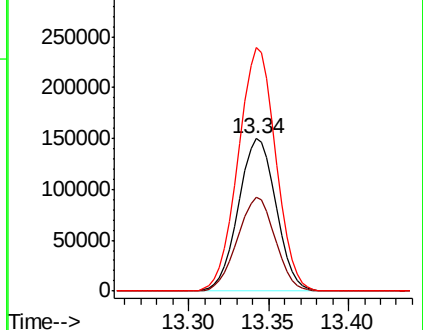
150 159.8 0.0 348.6

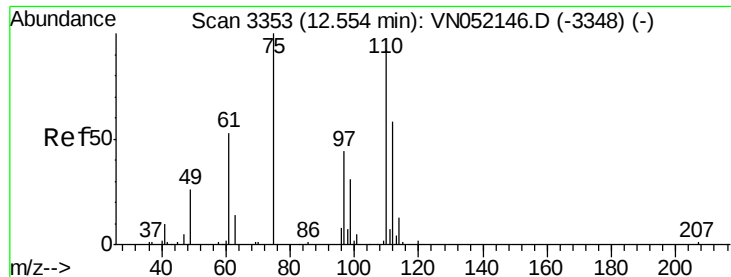


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 40.858 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN052166.D

Acq: 5 Nov 2018 23:54

Instrument :

MSVOA_N

ClientSampleId :

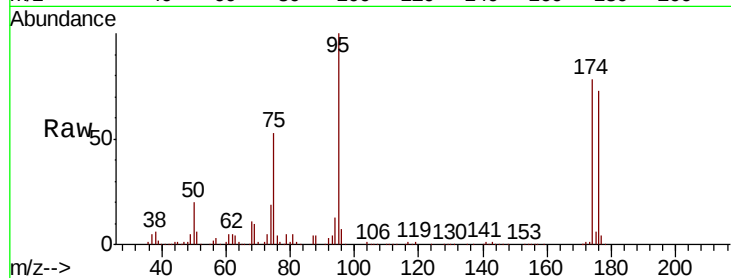
HL-R47183-RT

Tot Ion: 75 Resp: 154448

Ion Ratio Lower Upper

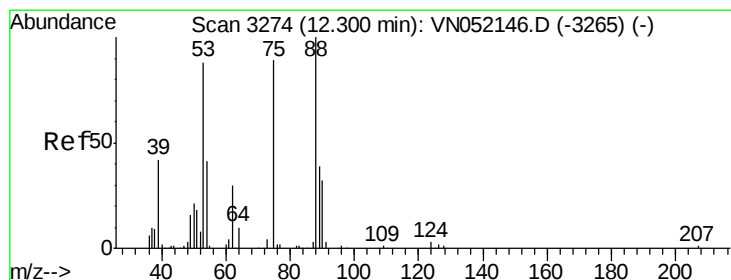
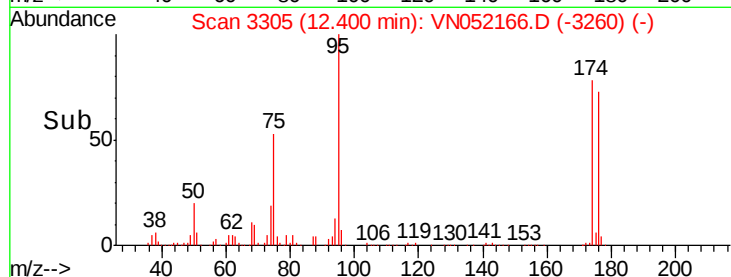
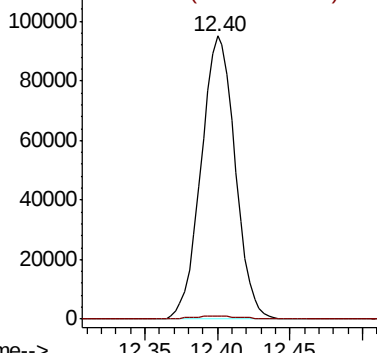
75 100

77 1.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#81

trans-1,4-Dichloro-2-butene

Concen: 146.298 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN052166.D

Acq: 5 Nov 2018 23:54

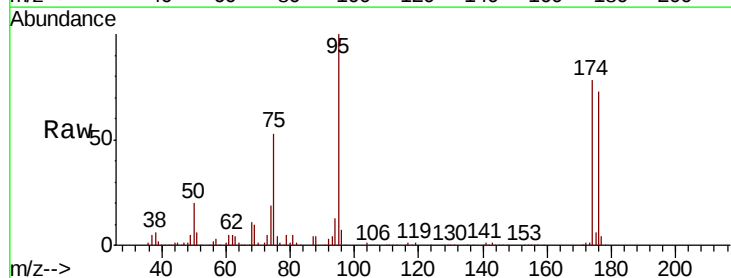
Tgt Ion: 75 Resp: 154448

Ion Ratio Lower Upper

75 100

53 0.1 79.4 119.0#

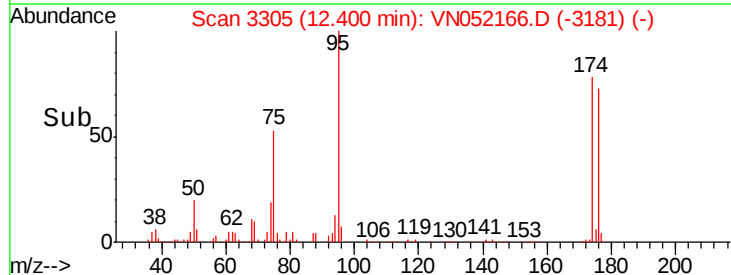
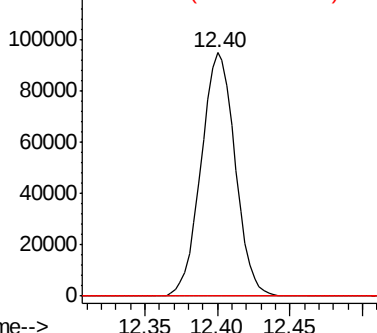
89 0.0 35.8 53.8#

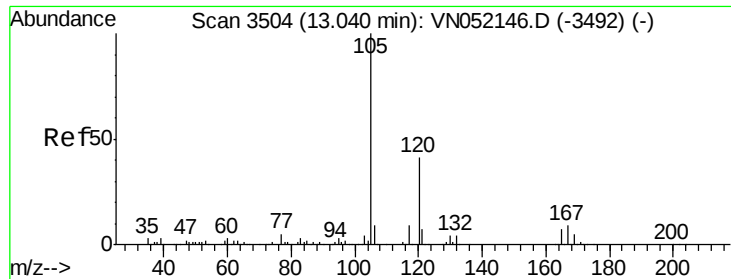


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

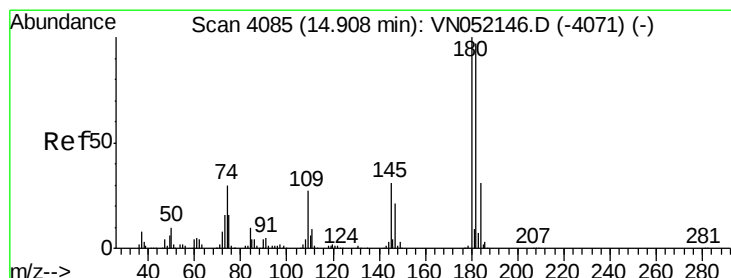
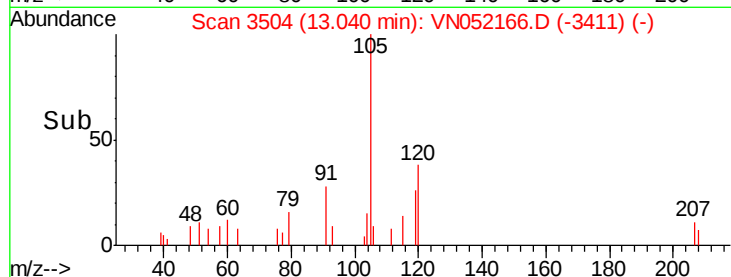
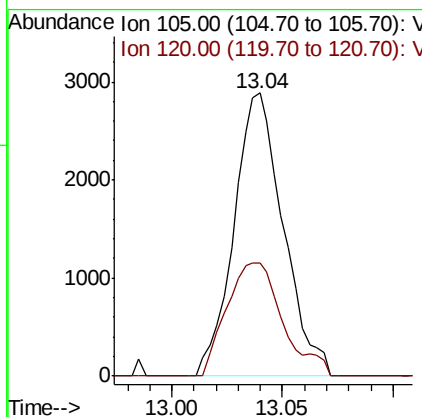
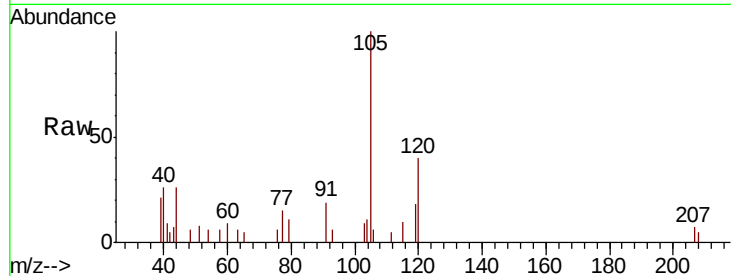




#84
 1,2,4-Trimethylbenzene
 Concen: 0.306 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. -0.00 min
 Lab File: VN052166.D
 Acq: 5 Nov 2018 23:54

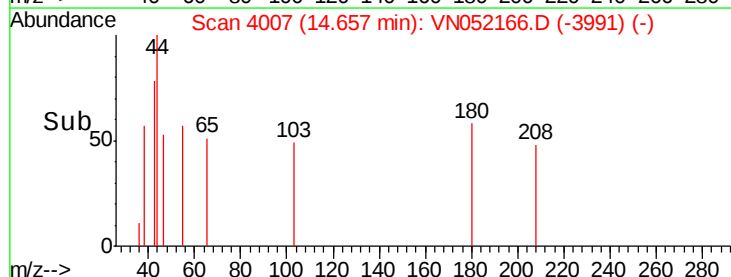
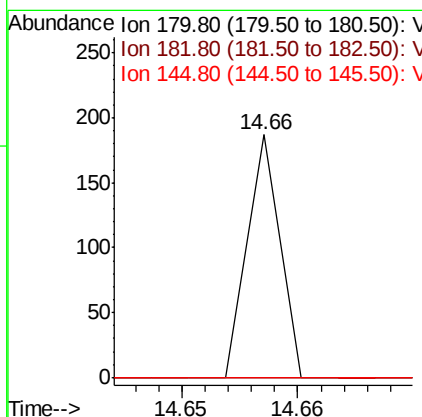
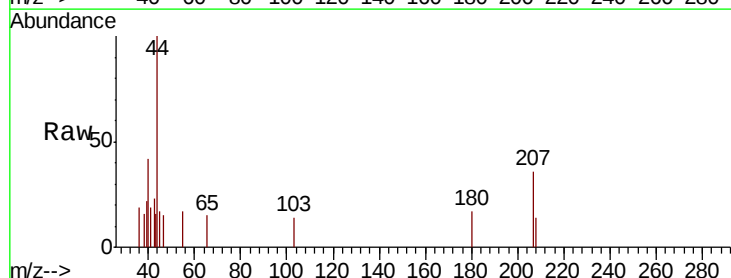
Instrument :
 MSVOA_N
 ClientSampleId :
 HL-R47183-RT

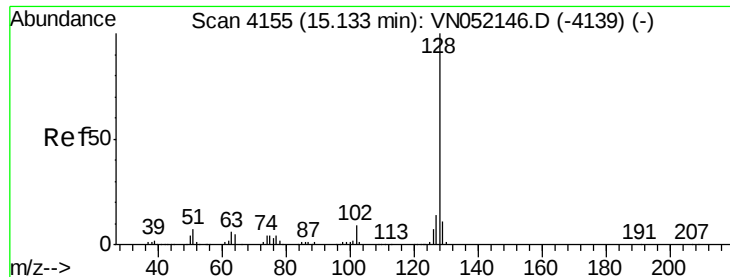
Tot Ion:105 Resp: 4476
 Ion Ratio Lower Upper
 105 100
 120 45.3 23.2 69.5



#93
 1,2,4-Trichlorobenzene
 Concen: 2.246 ug/l
 RT: 14.66 min Scan# 4007
 Delta R.T. -0.25 min
 Lab File: VN052166.D
 Acq: 5 Nov 2018 23:54

Tgt Ion:180 Resp: 36
 Ion Ratio Lower Upper
 180 100
 182 0.0 48.1 144.4#
 145 0.0 15.3 45.9#





#95

Naphthalene

Concen: 0.338 ug/l

RT: 15.13 min Scan# 4153

Delta R.T. -0.01 min

Lab File: VN052166.D

Acq: 5 Nov 2018 23:54

Instrument :

MSVOA_N

ClientSampleId :

HL-R47183-RT

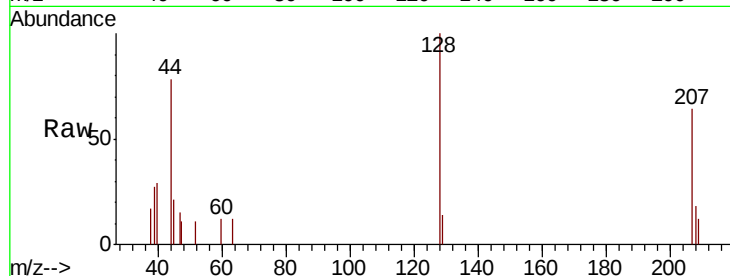
Tot Ion:128 Resp: 2487

Ion Ratio Lower Upper

128 100

127 3.1 10.8 16.2#

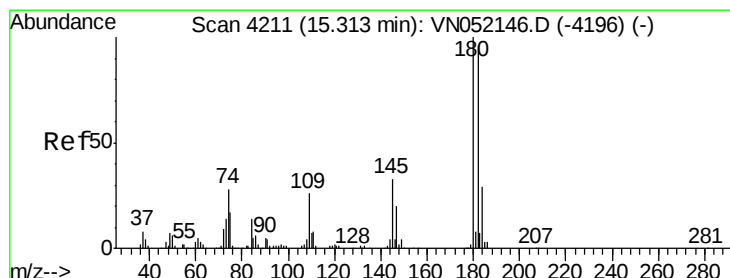
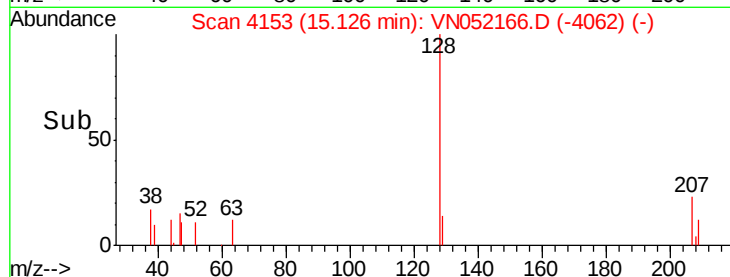
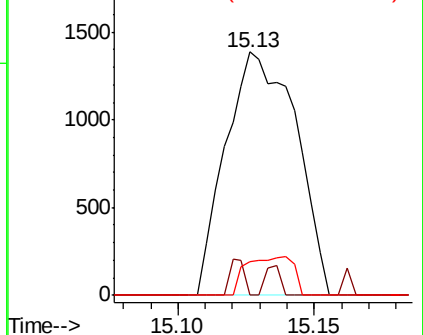
129 0.0 9.1 13.7#



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: 1.750 ug/l

RT: 15.31 min Scan# 4210

Delta R.T. -0.00 min

Lab File: VN052166.D

Acq: 5 Nov 2018 23:54

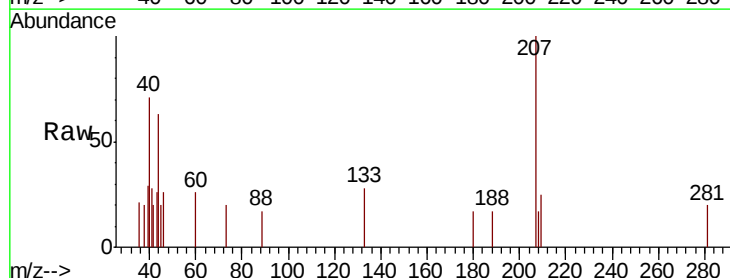
Tgt Ion:180 Resp: 60

Ion Ratio Lower Upper

180 100

182 0.0 46.6 139.7#

145 0.0 16.7 50.0#



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

