

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN121918\
 Data File : VN053016.D
 Acq On : 19 Dec 2018 17:30
 Operator : MD\SY
 Sample : PB115821ZHE#06
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 21 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Dec 20 05:22:34 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N121818W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 18 13:03:37 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1521729	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	2341242	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	2075820	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	815948	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	759305	49.17	ug/l	0.00
Spiked Amount			Recovery	=	98.34%	
35) Dibromofluoromethane	7.59	113	570667	53.36	ug/l	0.00
Spiked Amount			Recovery	=	106.72%	
50) Toluene-d8	10.09	98	2860518	49.82	ug/l	0.00
Spiked Amount			Recovery	=	99.64%	
62) 4-Bromofluorobenzene	12.40	95	922700	45.78	ug/l	0.00
Spiked Amount			Recovery	=	91.56%	

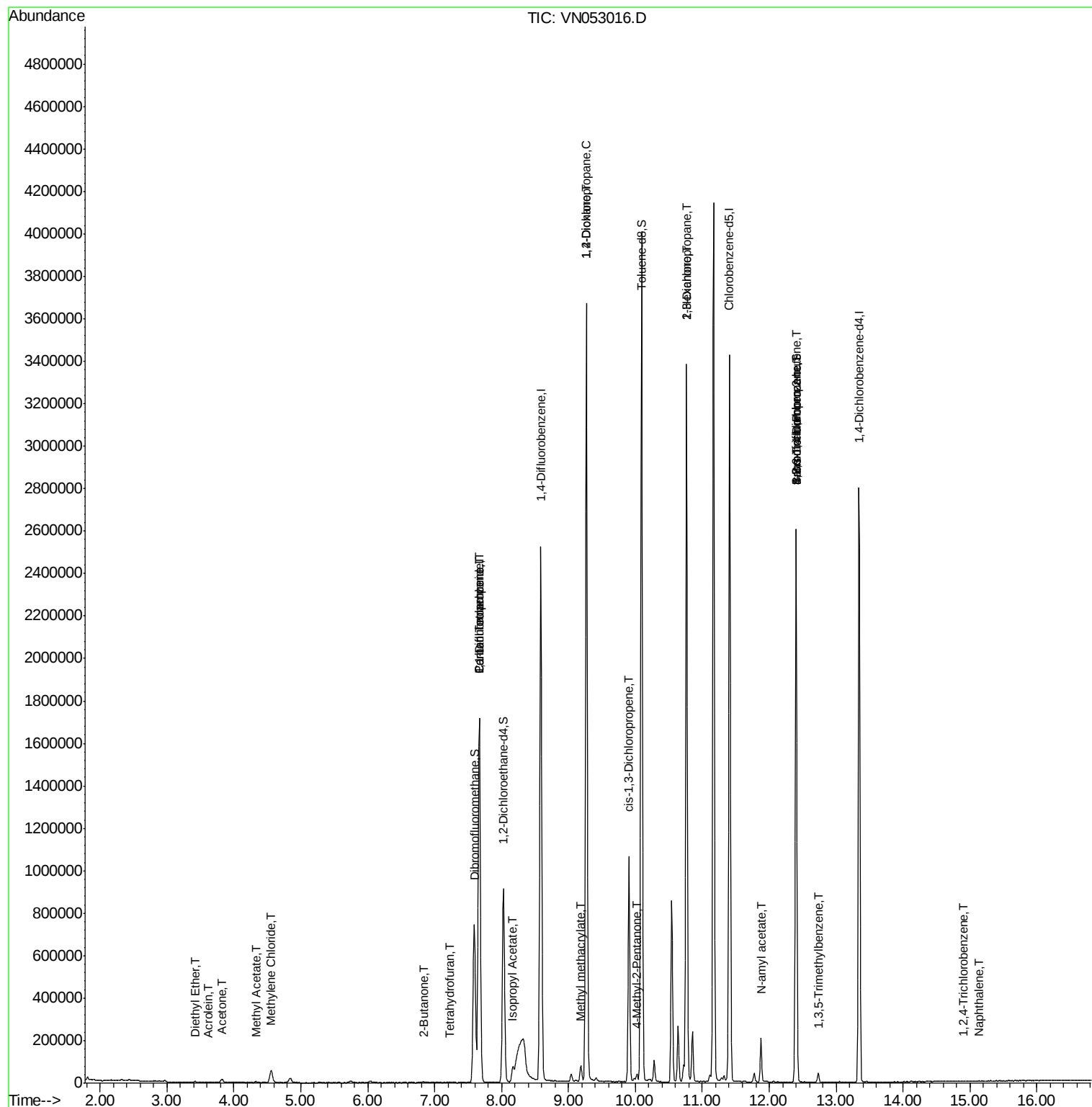
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	3.42	74	2628	0.296	ug/l #	28
13) Acrolein	3.62	56	239	0.280	ug/l #	45
16) Acetone	3.82	43	27931	9.225	ug/l	93
18) Methyl Acetate	4.33	43	7570	1.532	ug/l	97
20) Methylene Chloride	4.56	84	43565	2.638	ug/l	94
25) 2-Butanone	6.85	43	1726	0.340	ug/l #	77
29) Tetrahydrofuran	7.22	42	1718	0.453	ug/l #	45
31) Cyclohexane	7.67	56	24735	Below Cal	#	1
36) 1,1-Dichloropropene	7.67	75	100478	4.471	ug/l #	49
38) Carbon Tetrachloride	7.67	117	130506	6.336	ug/l #	16
43) Isopropyl Acetate	8.17	43	84737	2.498	ug/l #	84
45) 1,2-Dichloropropane	9.27	63	4441	0.255	ug/l #	44
48) Methyl methacrylate	9.18	41	25121	2.064	ug/l #	12
49) 1,4-Dioxane	9.27	88	566	3.676	ug/l #	1
51) 4-Methyl-2-Pentanone	10.02	43	28448	2.342	ug/l #	35
54) cis-1,3-Dichloropropene	9.90	75	200606	7.709	ug/l #	59
57) 1,3-Dichloropropane	10.76	76	35709	1.441	ug/l #	42
59) 2-Hexanone	10.76	43	470964	57.297	ug/l #	50
71) Bromoform	12.40	173	5486	0.475	ug/l #	1
74) N-amyl acetate	11.88	43	60211	3.397	ug/l #	52
76) 1,2,3-Trichloropropane	12.40	75	426021	31.016	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	21268	0.409	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.40	75	426021	99.967	ug/l #	12
93) 1,2,4-Trichlorobenzene	14.91	180	395	0.623	ug/l #	77
95) Naphthalene	15.13	128	827	1.172	ug/l #	69

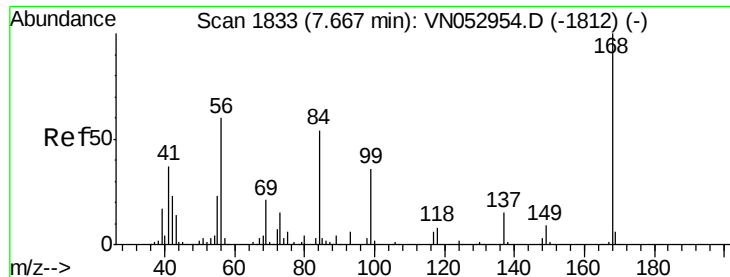
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Dec 18 13:03:37 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN053016.D

Acq: 19 Dec 2018 17:30

Instrument :

MSVOA_N

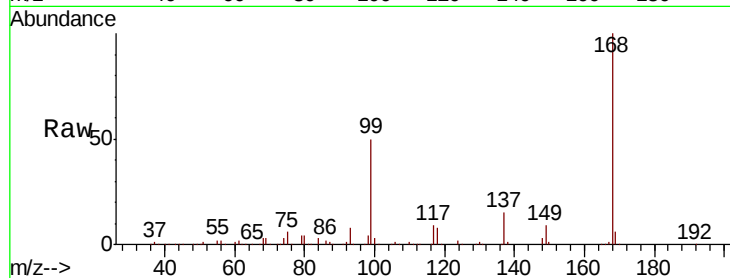
ClientSampled :

Tot Ion:168 Resp: 1521729

Ion Ratio Lower Upper

168 100

99 49.6 40.2 60.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

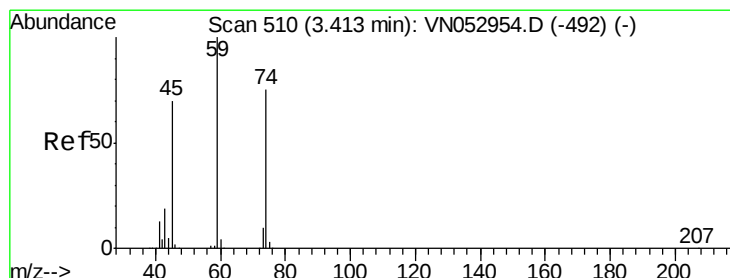
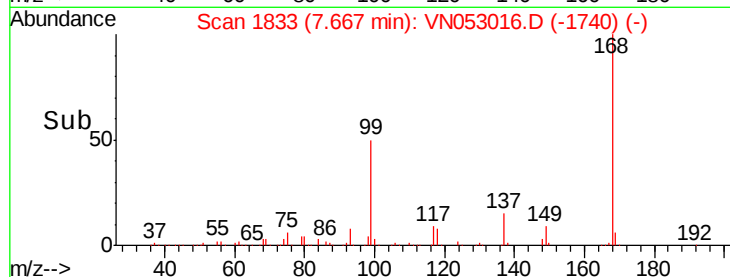
600000

400000

200000

0

Time-->



#8

Diethyl Ether

Concen: 0.296 ug/l

RT: 3.42 min Scan# 512

Delta R.T. 0.01 min

Lab File: VN053016.D

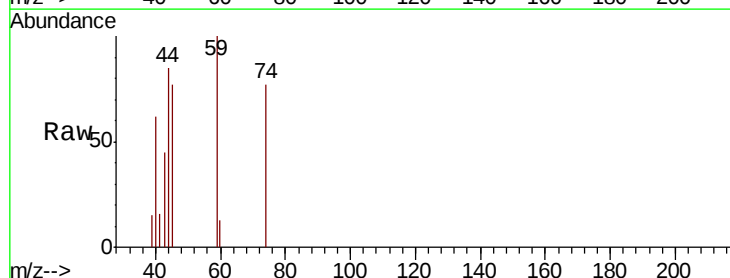
Acq: 19 Dec 2018 17:30

Tgt Ion: 74 Resp: 2628

Ion Ratio Lower Upper

74 100

45 27.1 49.4 148.0#



Abundance Ion 74.00 (73.70 to 74.70): VNO

Ion 45.00 (44.70 to 45.70): VNO

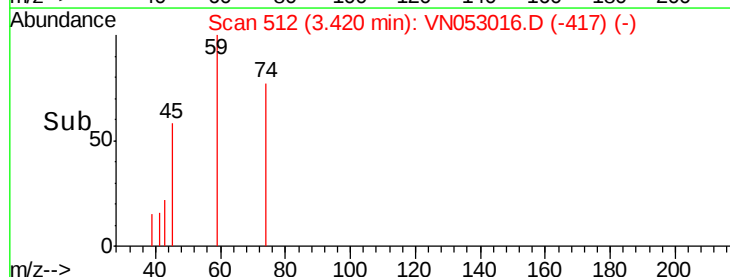
3.42

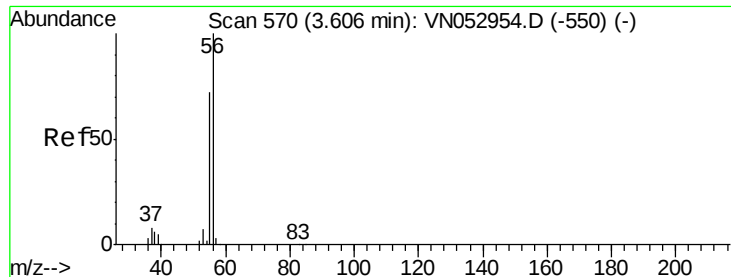
1000

500

0

Time-->





#13

Acrolein

Concen: 0.280 ug/l

RT: 3.62 min Scan# 573

Delta R.T. 0.01 min

Lab File: VN053016.D

Acq: 19 Dec 2018 17:30

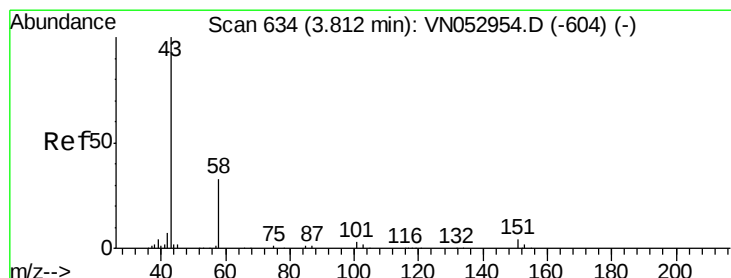
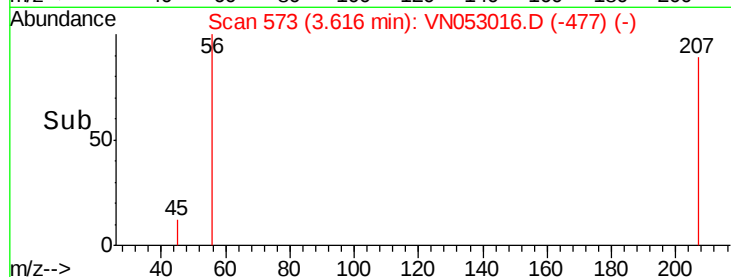
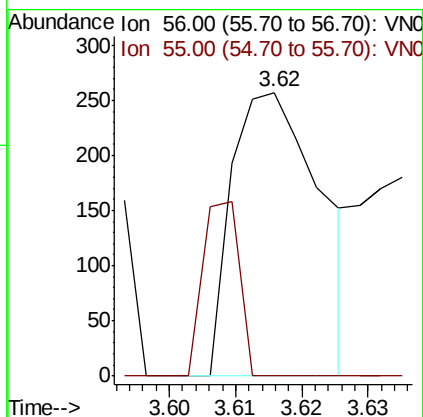
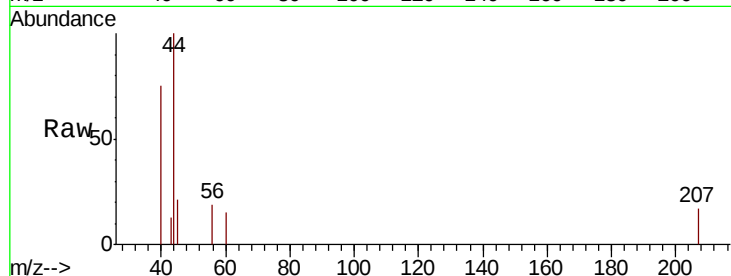
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 239

Ion Ratio Lower Upper

56 100

55 25.1 56.6 85.0#



#16

Acetone

Concen: 9.225 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.01 min

Lab File: VN053016.D

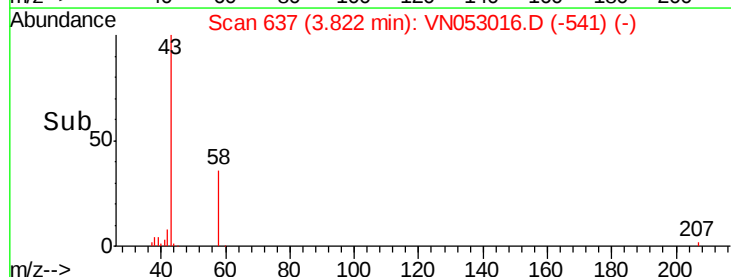
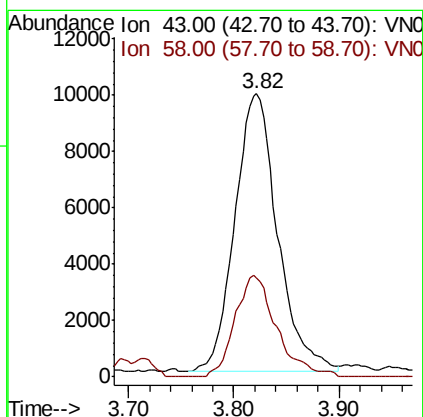
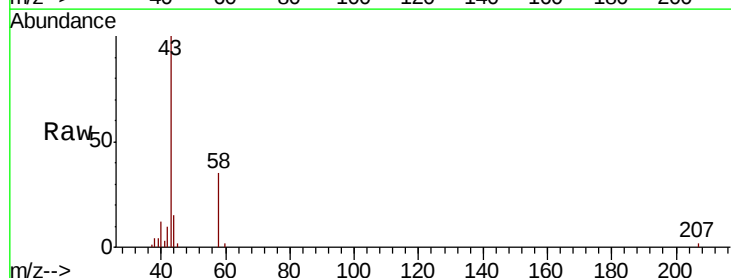
Acq: 19 Dec 2018 17:30

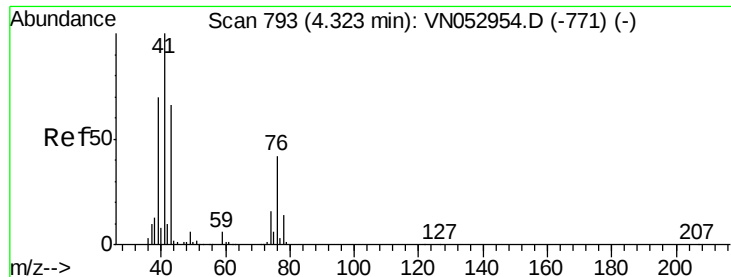
Tgt Ion: 43 Resp: 27931

Ion Ratio Lower Upper

43 100

58 35.7 25.4 38.0

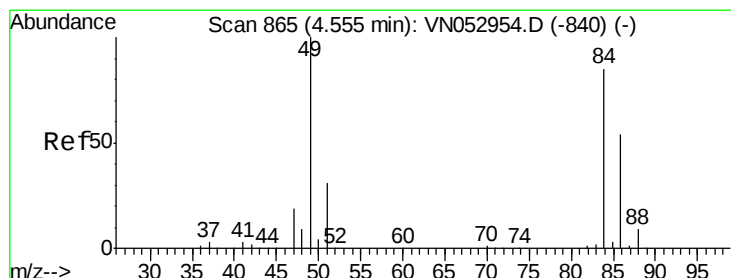
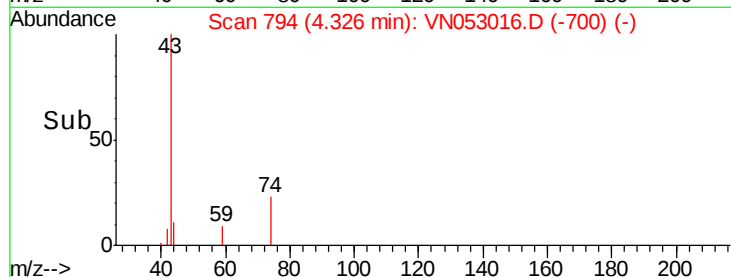
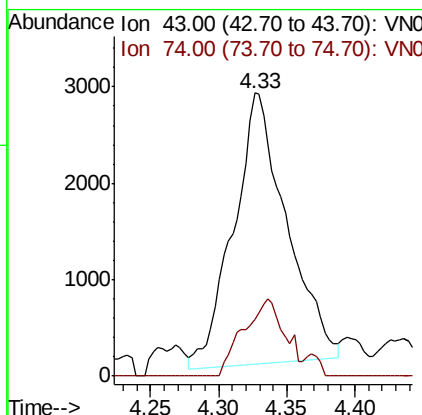
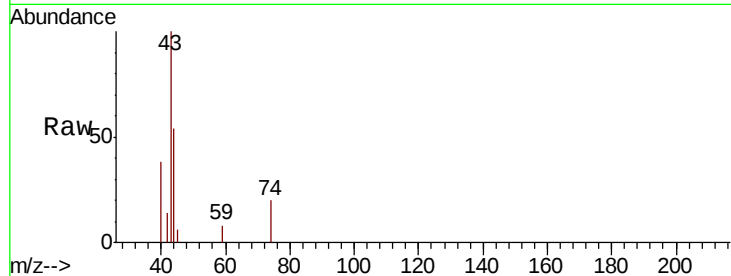




#18
Methyl Acetate
Concen: 1.532 ug/l
RT: 4.33 min Scan# 794
Delta R.T. 0.00 min
Lab File: VN053016.D
Acq: 19 Dec 2018 17:30

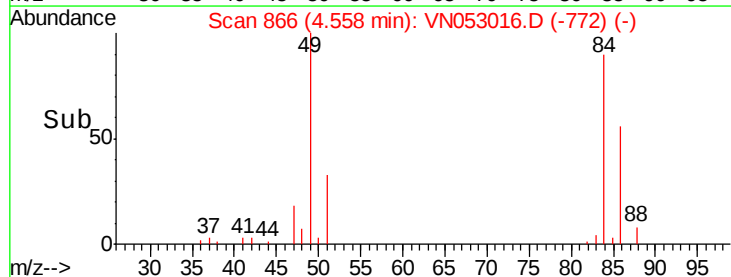
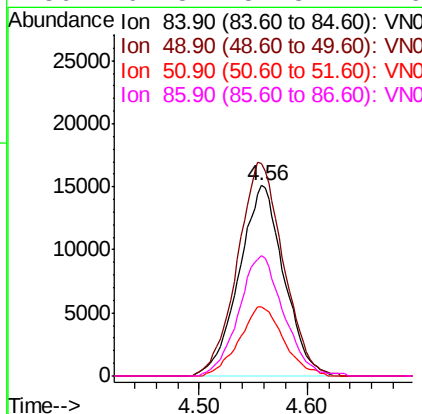
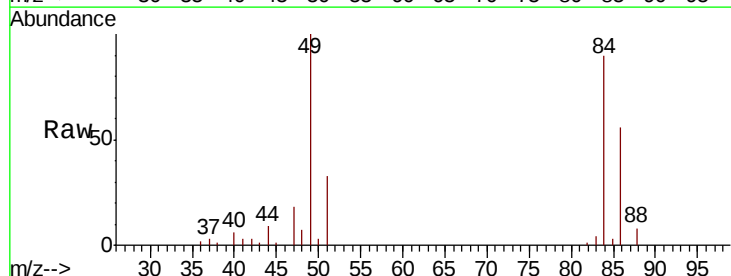
Instrument :
MSVOA_N
ClientSampled :

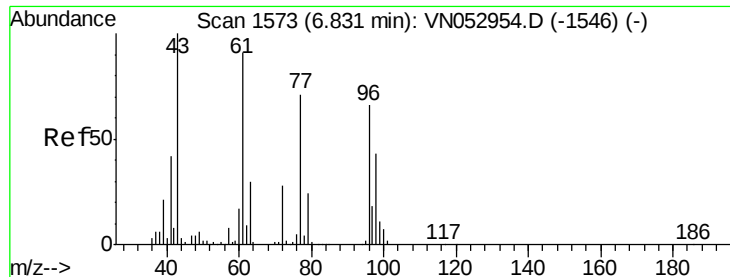
Tot Ion: 43 Resp: 7570
Ion Ratio Lower Upper
43 100
74 22.4 19.2 28.8



#20
Methylene Chloride
Concen: 2.638 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.00 min
Lab File: VN053016.D
Acq: 19 Dec 2018 17:30

Tgt Ion: 84 Resp: 43565
Ion Ratio Lower Upper
84 100
49 111.7 96.8 145.2
51 36.3 29.9 44.9
86 62.8 51.8 77.6

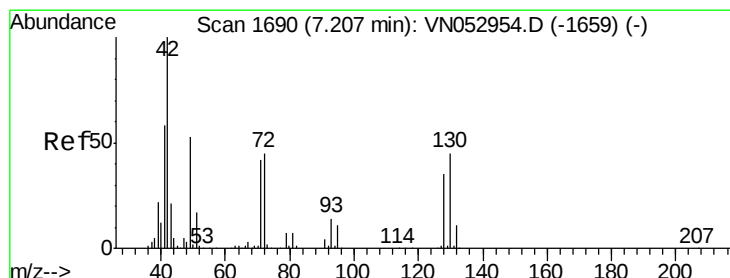
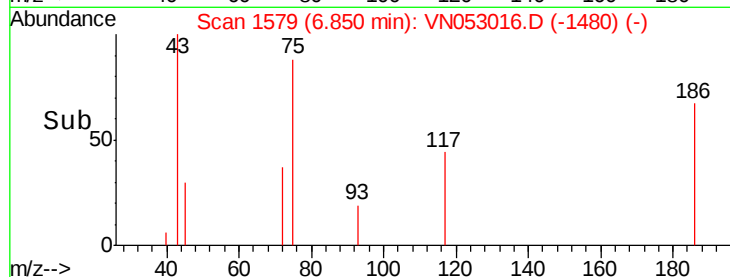
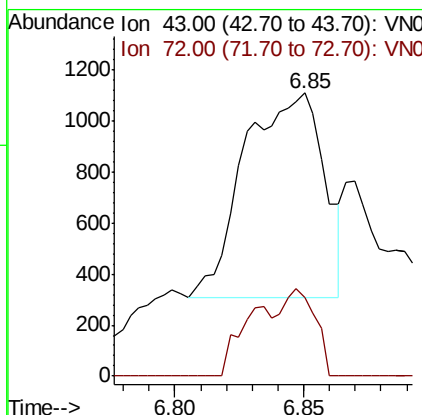
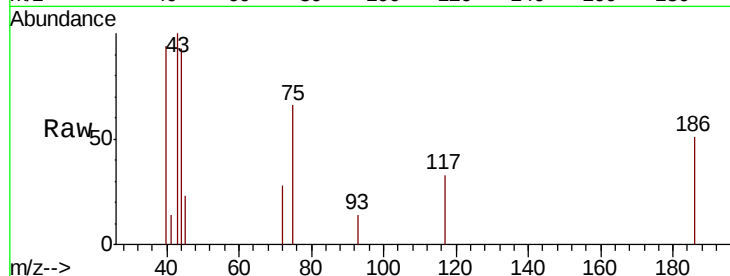




#25
2-Butanone
Concen: 0.340 ug/l
RT: 6.85 min Scan# 1579
Delta R.T. 0.02 min
Lab File: VN053016.D
Acq: 19 Dec 2018 17:30

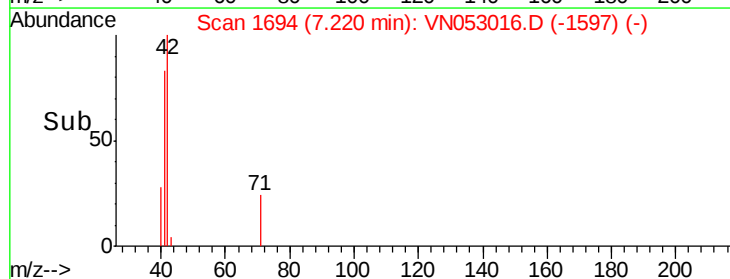
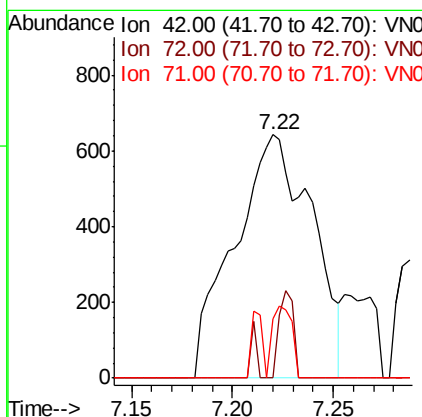
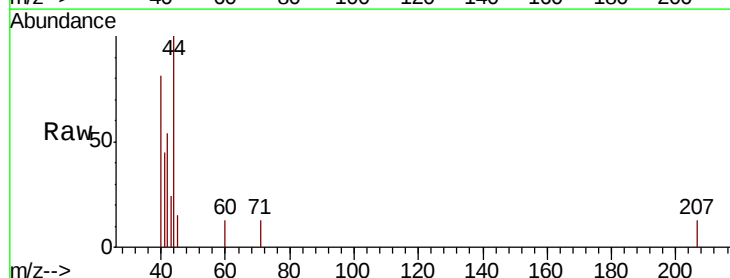
Instrument :
MSVOA_N
ClientSampled :

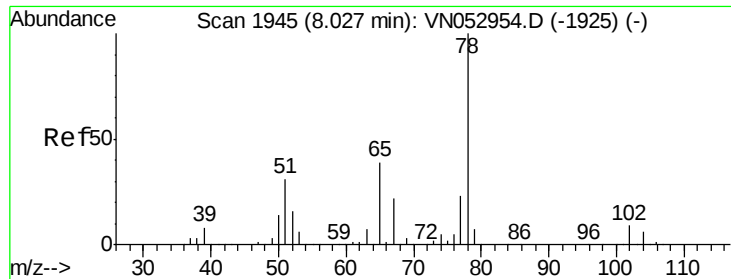
Tot Ion: 43 Resp: 1726
Ion Ratio Lower Upper
43 100
72 38.3 21.0 31.6#



#29
Tetrahydrofuran
Concen: 0.453 ug/l
RT: 7.22 min Scan# 1694
Delta R.T. 0.01 min
Lab File: VN053016.D
Acq: 19 Dec 2018 17:30

Tgt Ion: 42 Resp: 1718
Ion Ratio Lower Upper
42 100
72 6.8 34.7 52.1#
71 7.6 32.3 48.5#

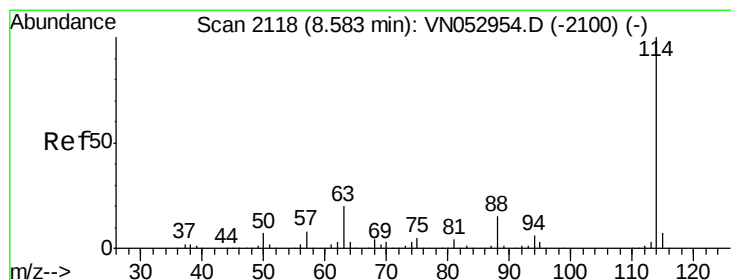
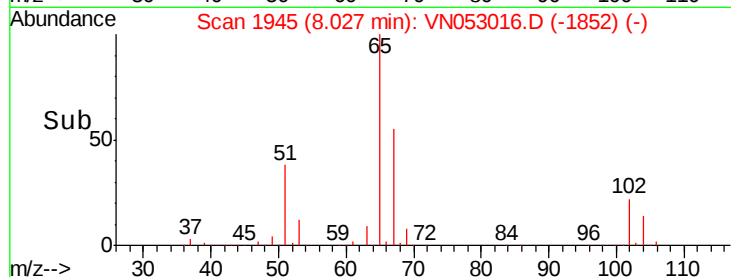
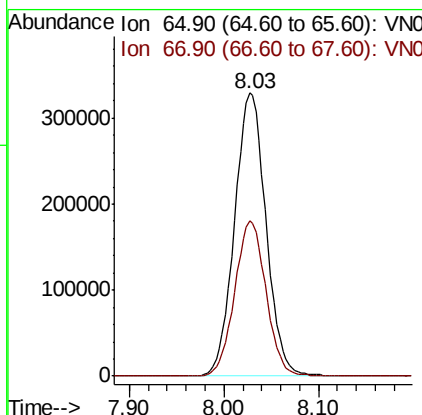
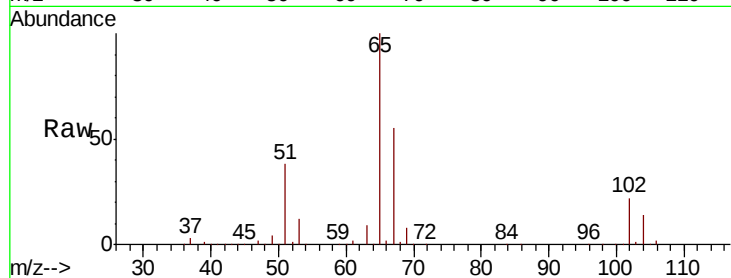




#33
 1,2-Dichloroethane-d4
 Concen: Below ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN053016.D
 Acq: 19 Dec 2018 17:30

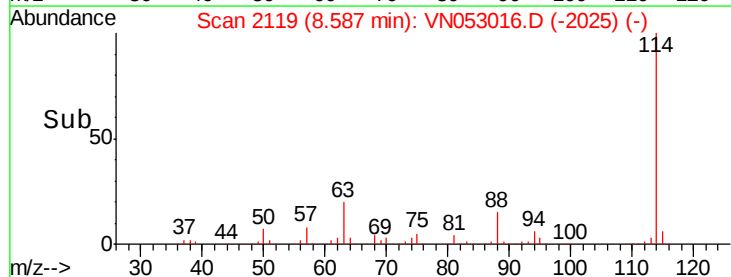
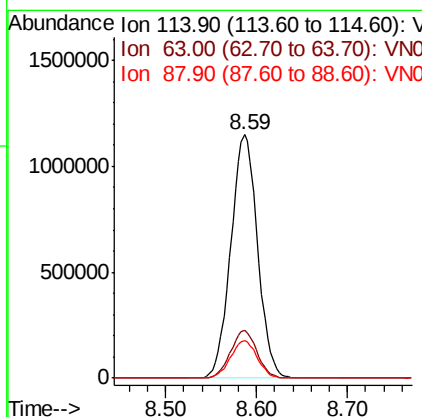
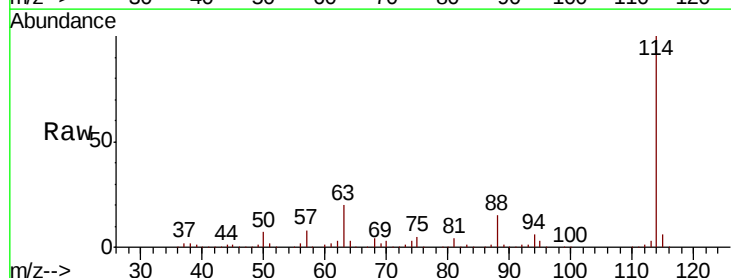
Instrument :
 MSVOA_N
 ClientSampleId :

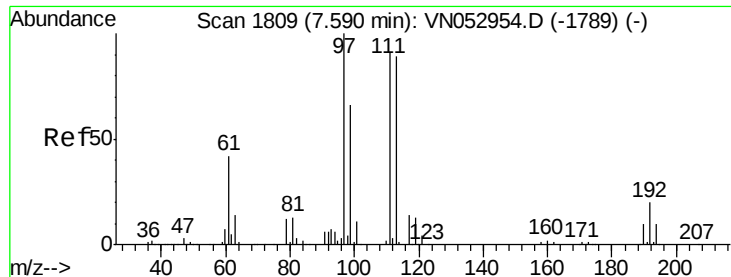
Tot Ion: 65 Resp: 759305
 Ion Ratio Lower Upper
 65 100
 67 54.6 0.0 110.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN053016.D
 Acq: 19 Dec 2018 17:30

Tgt Ion: 114 Resp: 2341242
 Ion Ratio Lower Upper
 114 100
 63 19.5 0.0 39.8
 88 15.4 0.0 31.0

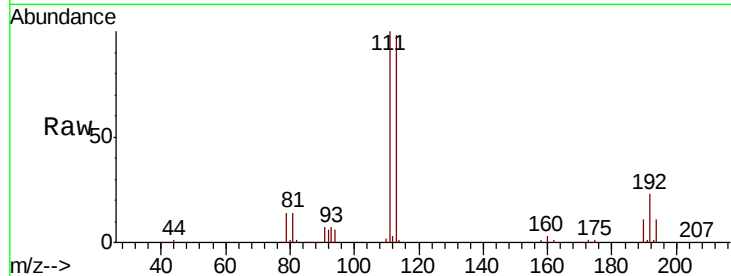




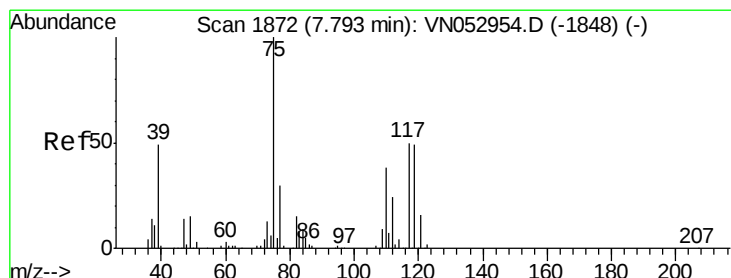
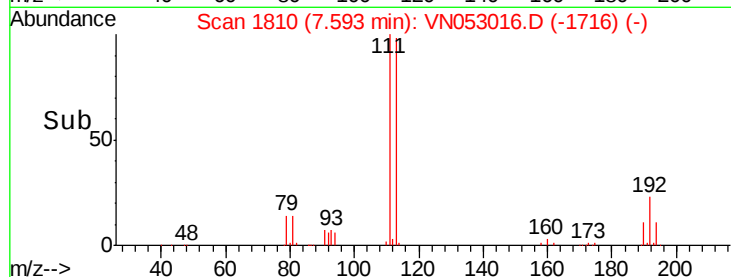
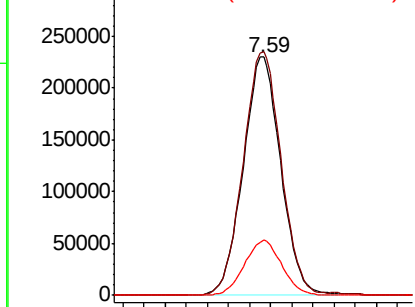
#35
Dibromofluoromethane
Concen: 50.000 ug/l
RT: 7.59 min Scan# 1810
Delta R.T. 0.00 min
Lab File: VN053016.D
Acq: 19 Dec 2018 17:30

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
113	100		
111	103.1	83.0	124.4
192	22.9	17.5	26.3

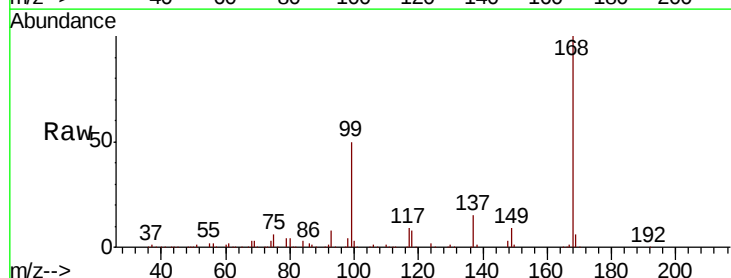


Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V

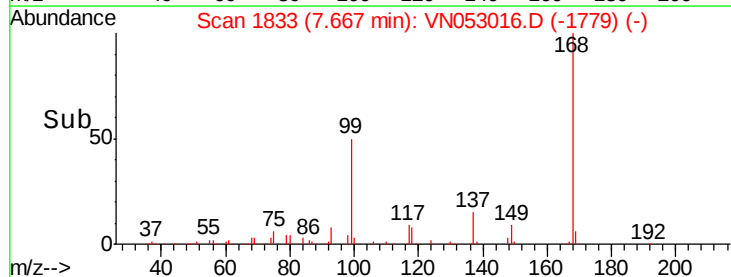
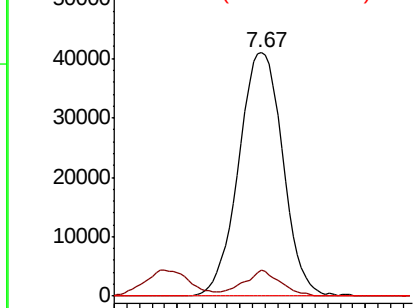


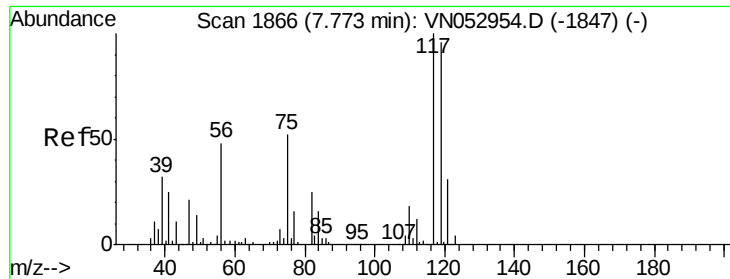
#36
1,1-Dichloropropene
Concen: 4.471 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. -0.13 min
Lab File: VN053016.D
Acq: 19 Dec 2018 17:30

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.8	18.2	54.6#
77	0.0	24.9	37.3#



Abundance Ion 74.90 (74.60 to 75.60): VNO
Ion 109.90 (109.60 to 110.60): V
Ion 76.90 (76.60 to 77.60): VNO

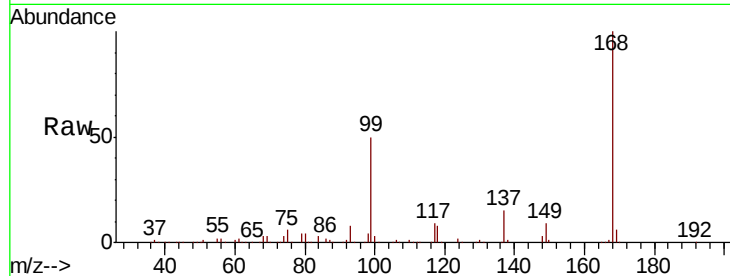




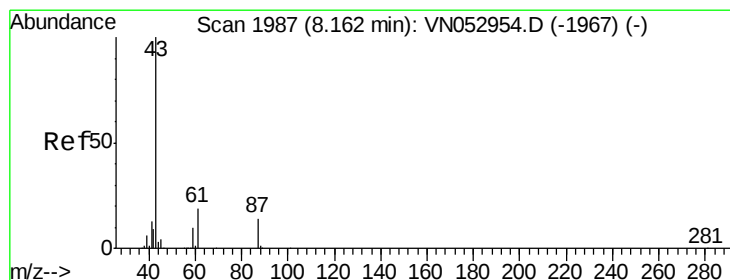
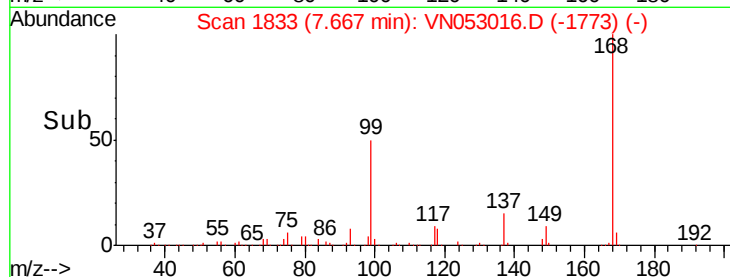
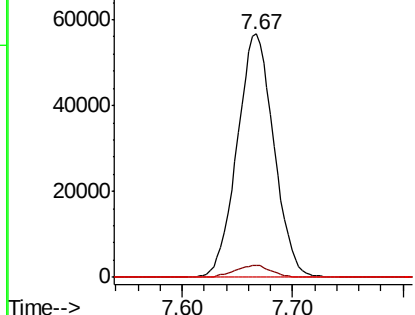
#38
Carbon Tetrachloride
Concen: 6.336 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. -0.11 min
Lab File: VN053016.D
Acq: 19 Dec 2018 17:30

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 130506
Ion Ratio Lower Upper
117 100
119 4.8 77.1 115.7#
121 0.0 24.9 37.3#

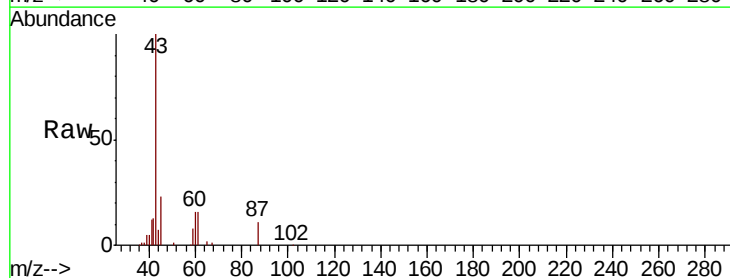


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

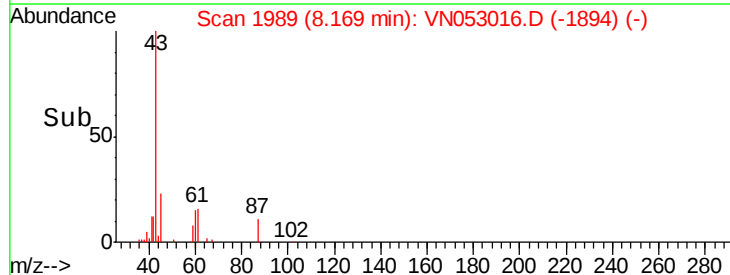
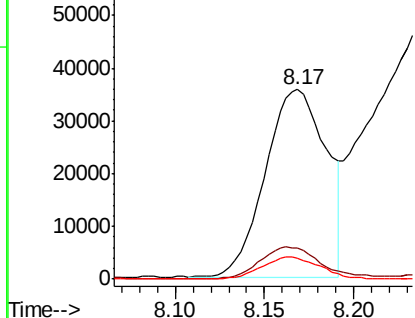


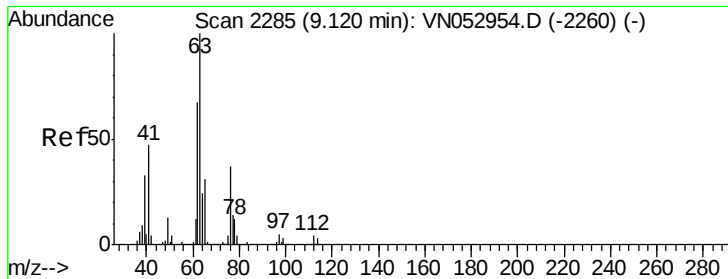
#43
Isopropyl Acetate
Concen: 2.498 ug/l
RT: 8.17 min Scan# 1989
Delta R.T. 0.01 min
Lab File: VN053016.D
Acq: 19 Dec 2018 17:30

Tgt Ion: 43 Resp: 84737
Ion Ratio Lower Upper
43 100
61 17.2 22.9 34.3#
87 11.1 10.6 15.8



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





#45

1,2-Dichloropropane

Concen: 0.255 ug/l

RT: 9.27 min Scan# 2330

Delta R.T. 0.14 min

Lab File: VN053016.D

Acq: 19 Dec 2018 17:30

Instrument :

MSVOA_N

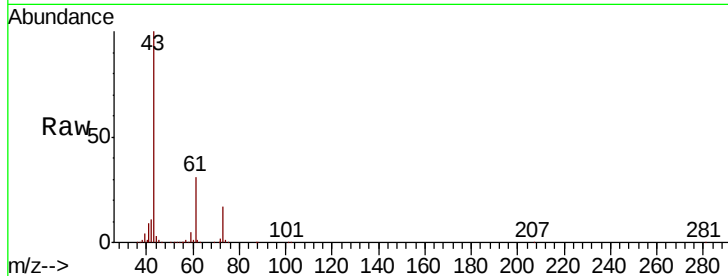
ClientSampleId :

Tot Ion: 63 Resp: 4441

Ion Ratio Lower Upper

63 100

65 0.0 24.6 37.0#



Abundance Ion 62.90 (62.60 to 63.60): VNC

Ion 64.90 (64.60 to 65.60): VNC

9.27

3000

2500

2000

1500

1000

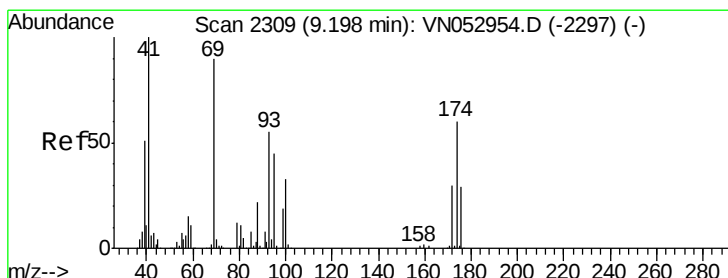
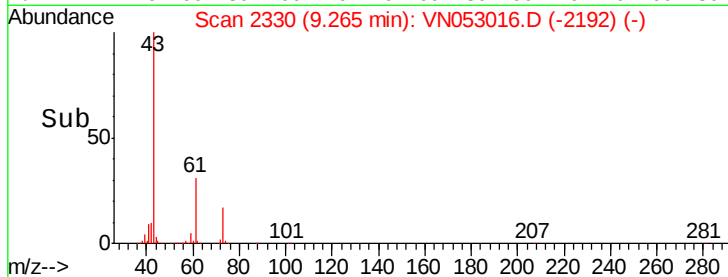
500

0

9.25

9.30

Time-->



#48

Methyl methacrylate

Concen: 2.064 ug/l

RT: 9.18 min Scan# 2303

Delta R.T. -0.02 min

Lab File: VN053016.D

Acq: 19 Dec 2018 17:30

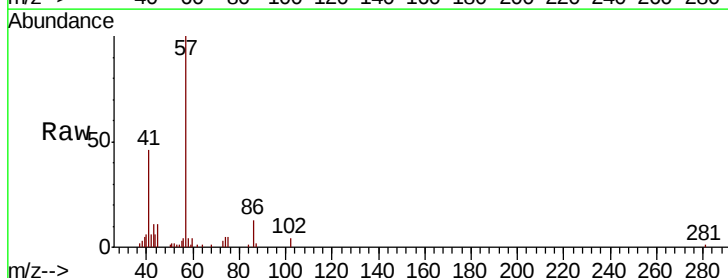
Tgt Ion: 41 Resp: 25121

Ion Ratio Lower Upper

41 100

69 0.0 72.2 108.2#

39 0.0 41.9 62.9#



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

200000

150000

100000

50000

0

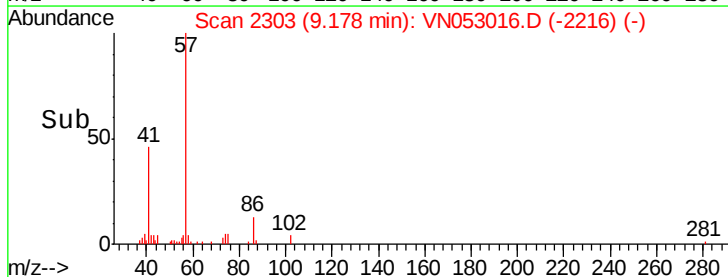
9.10

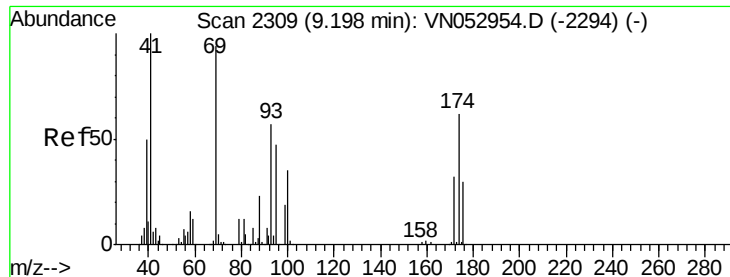
9.15

9.20

9.25

Time-->





#49

1,4-Dioxane

Concen: 3.676 ug/l

RT: 9.27 min Scan# 2330

Delta R.T. 0.07 min

Lab File: VN053016.D

Acq: 19 Dec 2018 17:30

Instrument :
MSVOA_N
ClientSampled :

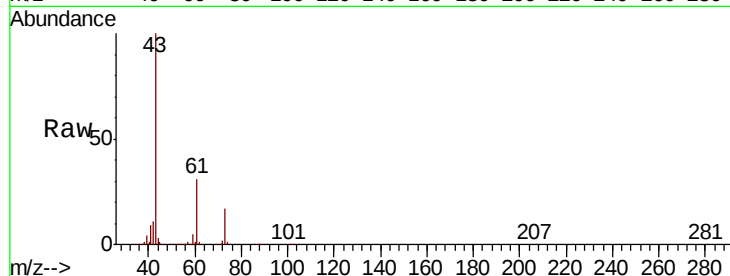
Tot Ion: 88 Resp: 566

Ion Ratio Lower Upper

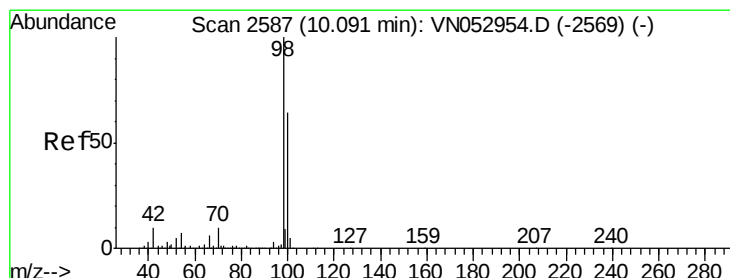
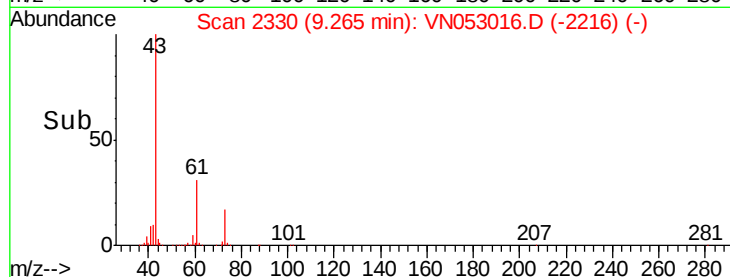
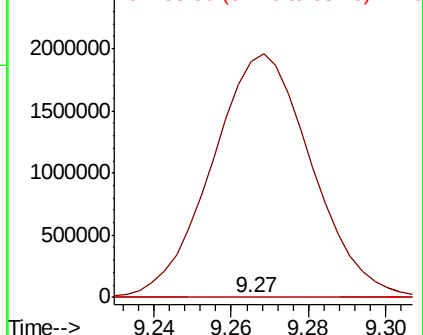
88 100

43 623421.6 26.6 40.0#

58 2611.5 58.4 87.6#



Abundance Ion 88.00 (87.70 to 88.70): VN0
Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0



#50

Toluene-d8

Concen: 3.676 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN053016.D

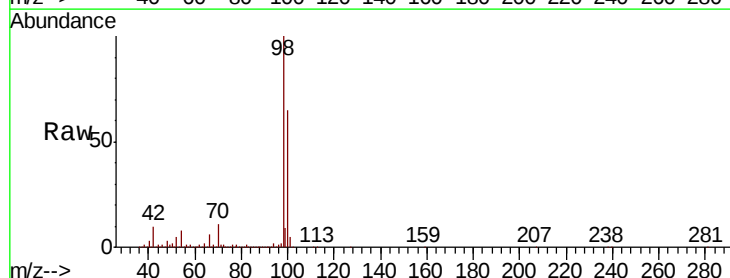
Acq: 19 Dec 2018 17:30

Tgt Ion: 98 Resp: 2860518

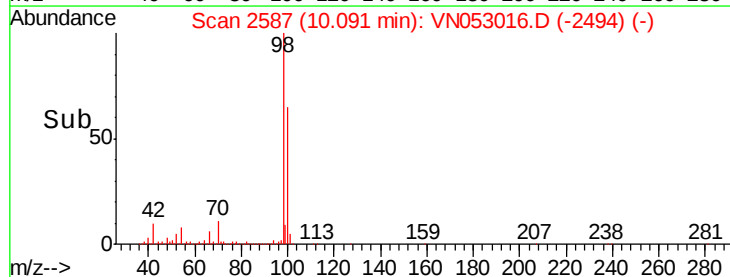
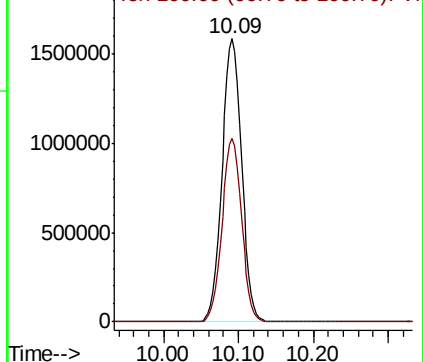
Ion Ratio Lower Upper

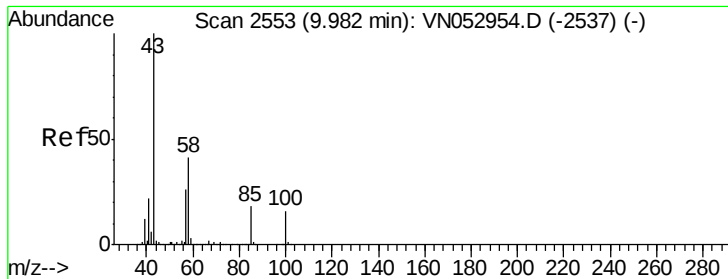
98 100

100 64.5 51.6 77.4



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

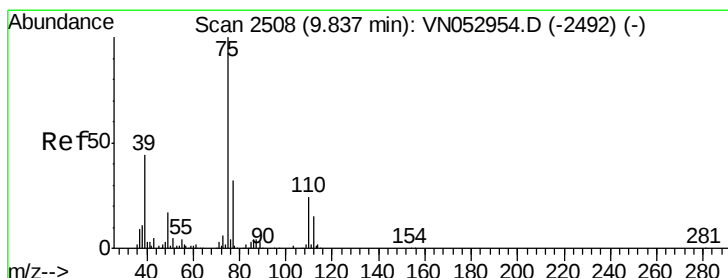
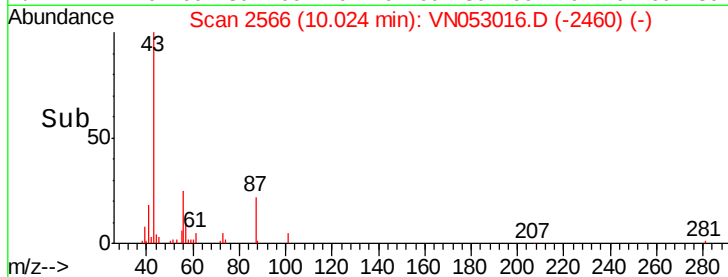
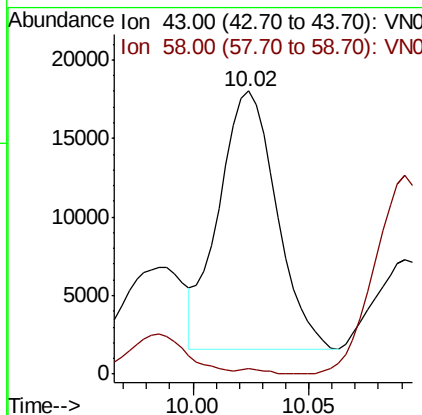
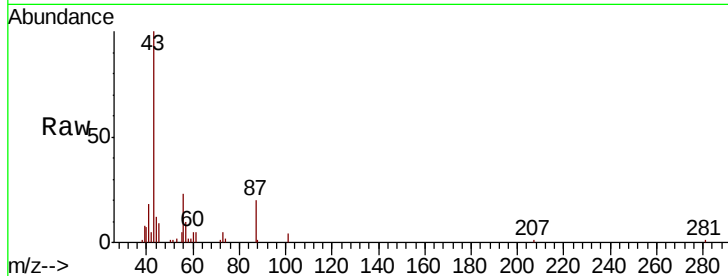




#51
 4-Methyl-2-Pentanone
 Concen: 2.342 ug/l
 RT: 10.02 min Scan# 2566
 Delta R.T. 0.04 min
 Lab File: VN053016.D
 Acq: 19 Dec 2018 17:30

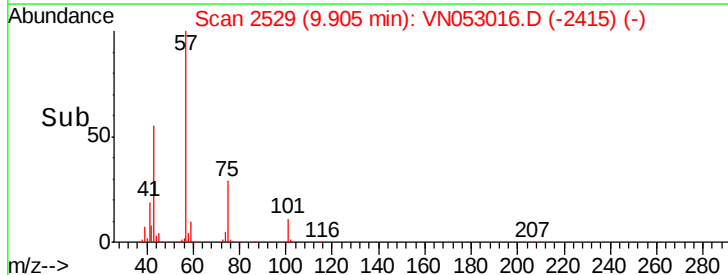
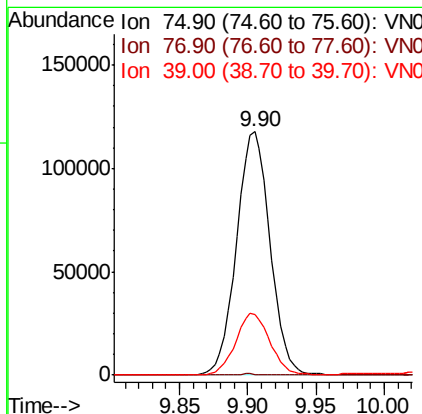
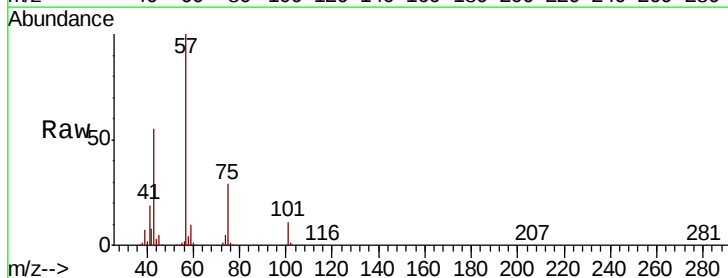
Instrument :
 MSVOA_N
 ClientSampleId :

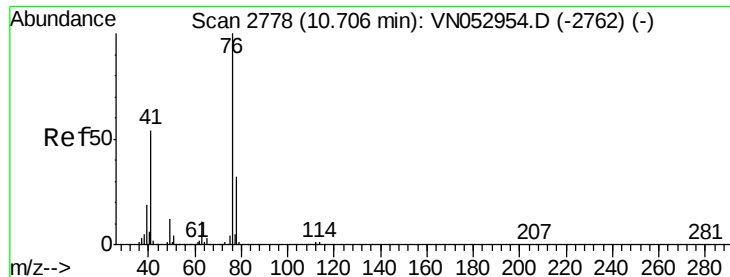
Tot Ion: 43 Resp: 28448
 Ion Ratio Lower Upper
 43 100
 58 0.0 32.2 48.4#



#54
 cis-1,3-Dichloropropene
 Concen: 7.709 ug/l
 RT: 9.90 min Scan# 2529
 Delta R.T. 0.07 min
 Lab File: VN053016.D
 Acq: 19 Dec 2018 17:30

Tgt Ion: 75 Resp: 200606
 Ion Ratio Lower Upper
 75 100
 77 0.4 25.8 38.8#
 39 25.1 34.8 52.2#

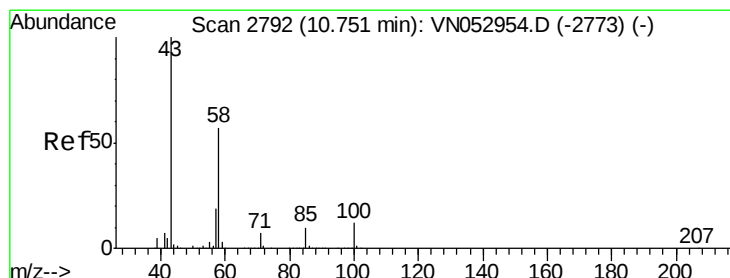
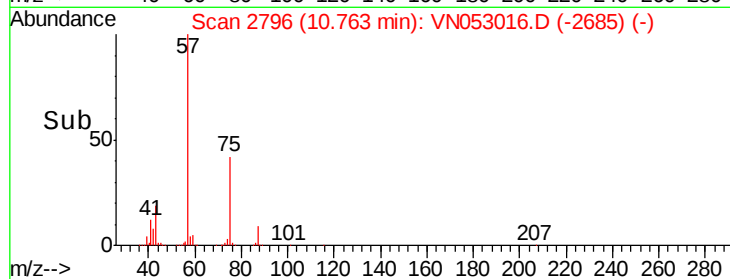
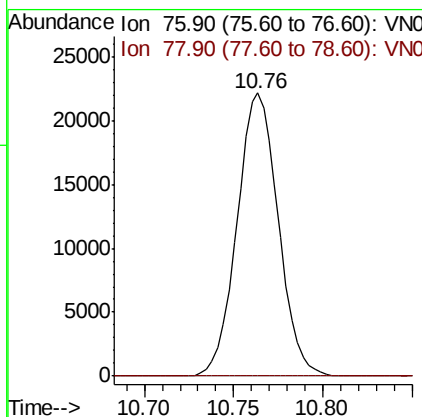
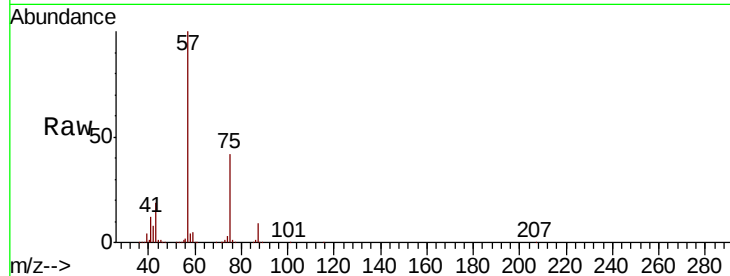




#57
 1,3-Dichloropropane
 Concen: 1.441 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.06 min
 Lab File: VN053016.D
 Acq: 19 Dec 2018 17:30

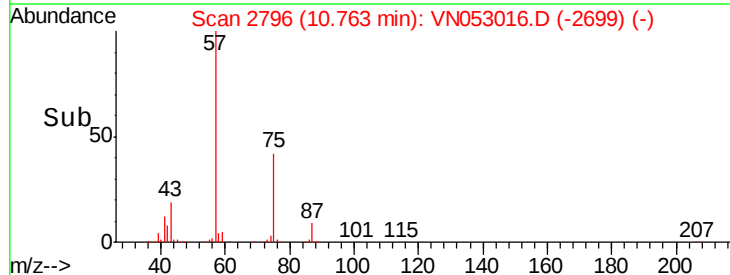
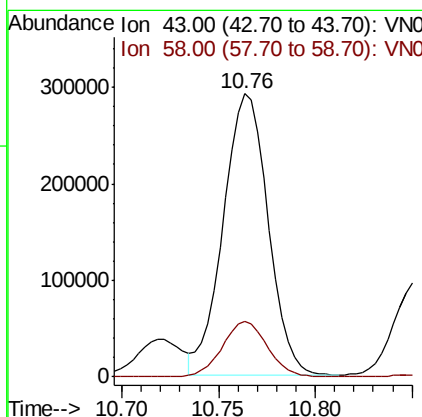
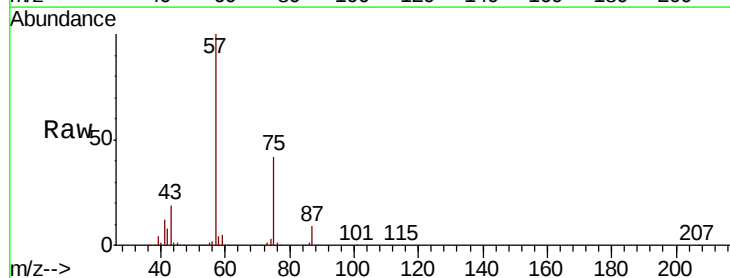
Instrument :
 MSVOA_N
 ClientSampled :

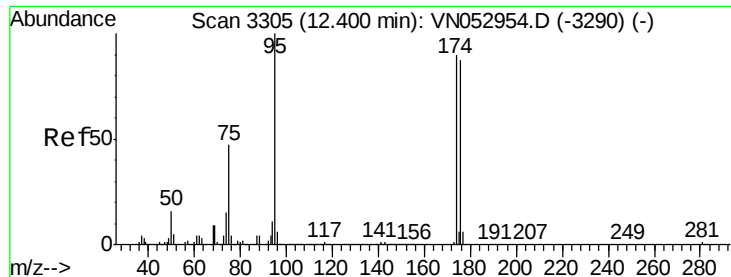
Tot Ion: 76 Resp: 35709
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.8 38.8#



#59
 2-Hexanone
 Concen: 57.297 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.01 min
 Lab File: VN053016.D
 Acq: 19 Dec 2018 17:30

Tgt Ion: 43 Resp: 470964
 Ion Ratio Lower Upper
 43 100
 58 19.9 28.1 84.3#

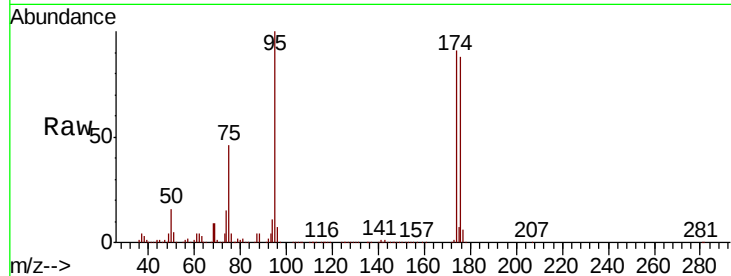




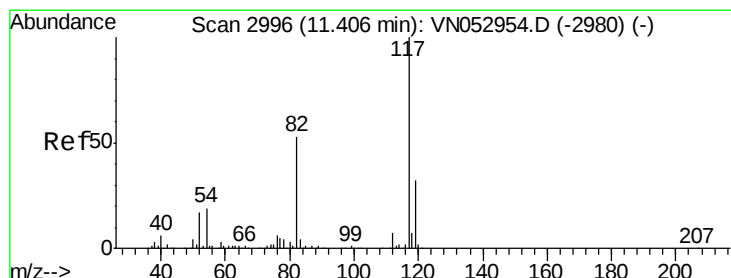
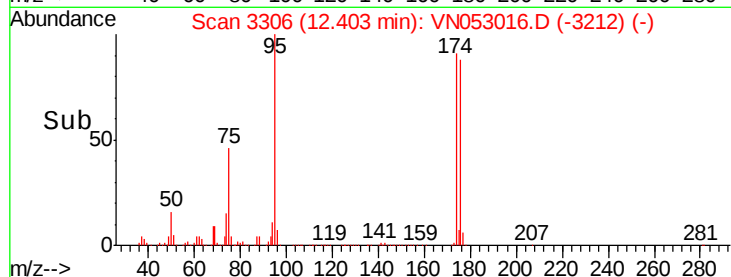
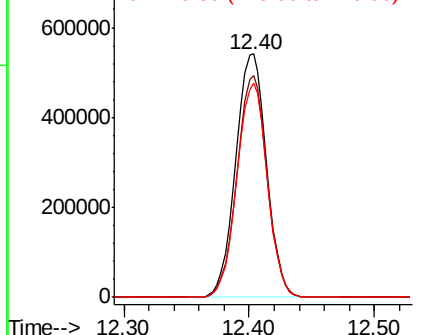
#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN053016.D
Acq: 19 Dec 2018 17:30

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 95 Resp: 922700
Ion Ratio Lower Upper
95 100
174 89.3 0.0 178.8
176 86.8 0.0 173.8

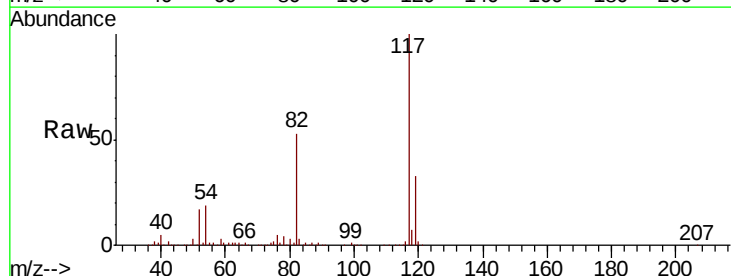


Abundance Ion 94.90 (94.60 to 95.60): VN052954.D (-3290) (-)
Ion 173.80 (173.50 to 174.50): VN052954.D (-3290) (-)
Ion 175.80 (175.50 to 176.50): VN052954.D (-3290) (-)

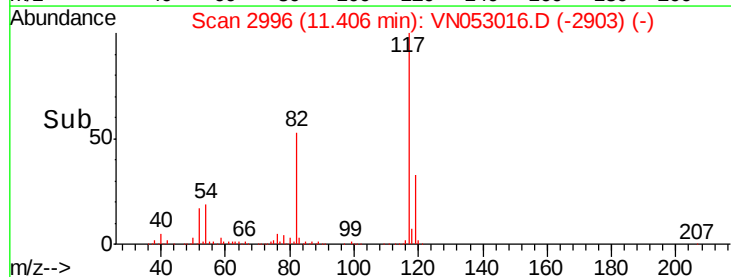
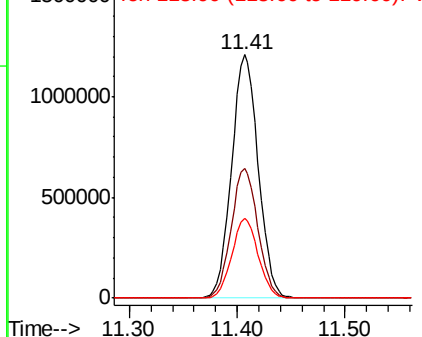


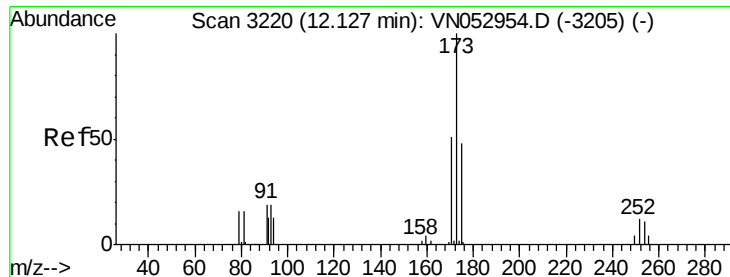
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN053016.D
Acq: 19 Dec 2018 17:30

Tgt Ion: 117 Resp: 2075820
Ion Ratio Lower Upper
117 100
82 53.4 42.8 64.2
119 32.5 25.5 38.3



Abundance Ion 116.90 (116.60 to 117.60): VN052954.D (-2980) (-)
Ion 82.00 (81.70 to 82.70): VN052954.D (-2980) (-)
Ion 118.90 (118.60 to 119.60): VN052954.D (-2980) (-)





#71

Bromoform

Concen: 0.475 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN053016.D

Acq: 19 Dec 2018 17:30

Instrument :

MSVOA_N

ClientSampleId :

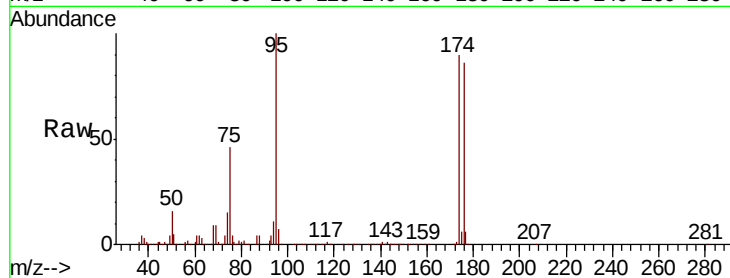
Tot Ion:173 Resp: 5486

Ion Ratio Lower Upper

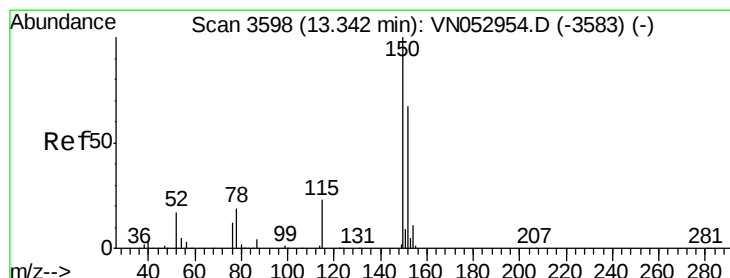
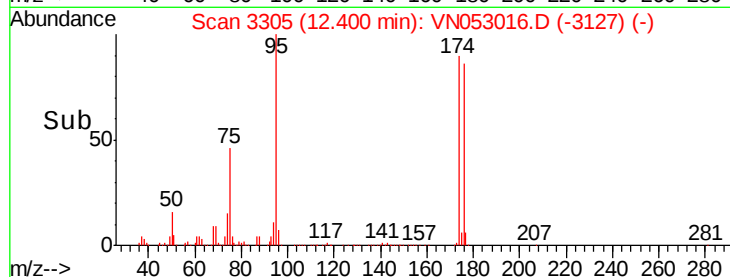
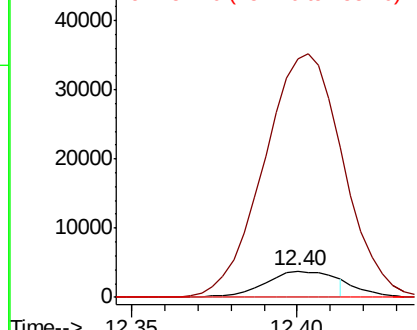
173 100

175 940.8 24.3 72.9#

254 0.0 0.1 0.1#



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: VN053016.D

Acq: 19 Dec 2018 17:30

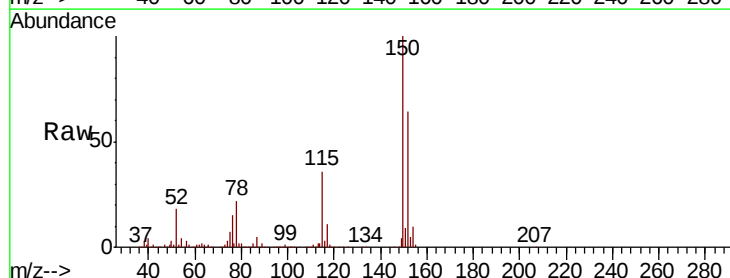
Tgt Ion:152 Resp: 815948

Ion Ratio Lower Upper

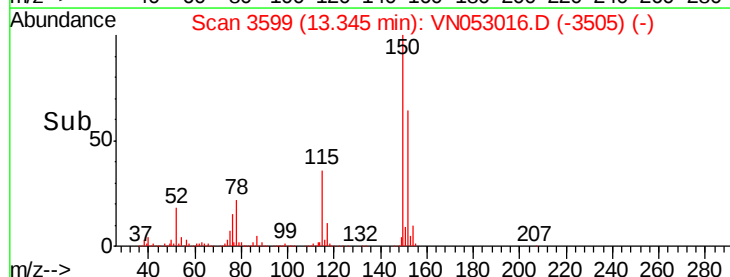
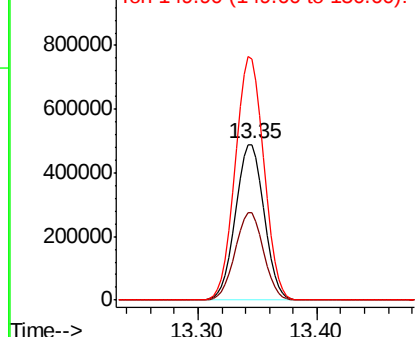
152 100

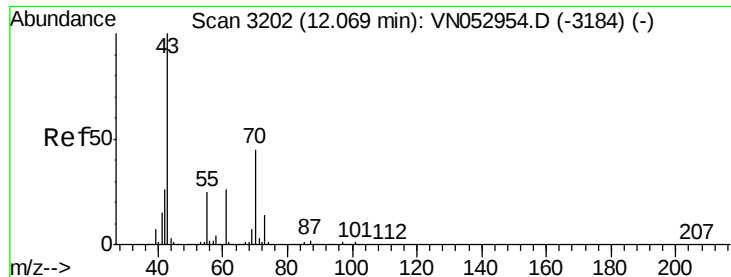
115 56.0 28.3 85.0

150 156.5 0.0 347.8



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





#74

N-amvl acetate

Concen: 3.397 ug/l

RT: 11.88 min Scan# 3142

Delta R.T. -0.19 min

Lab File: VN053016.D

Acq: 19 Dec 2018 17:30

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 43 Resp: 60211

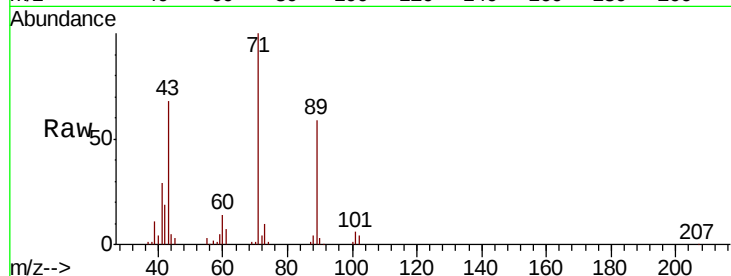
Ion Ratio Lower Upper

43 100

70 2.2 34.2 51.4#

55 4.9 20.3 30.5#

61 11.2 20.0 30.0#



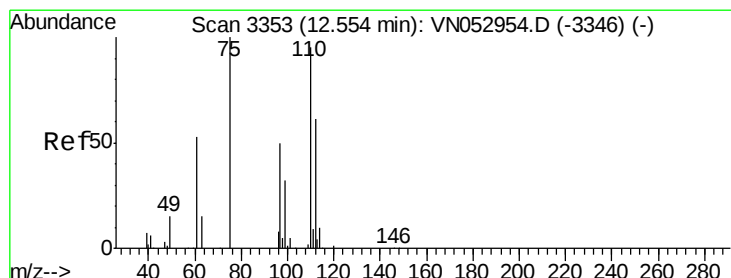
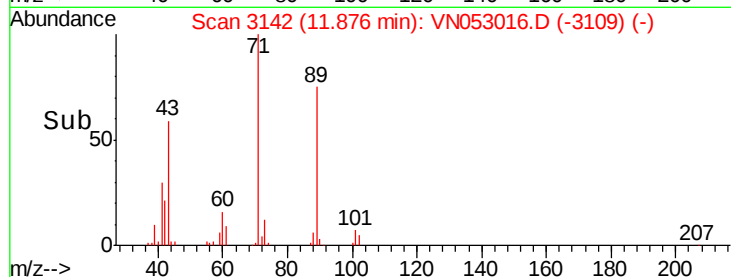
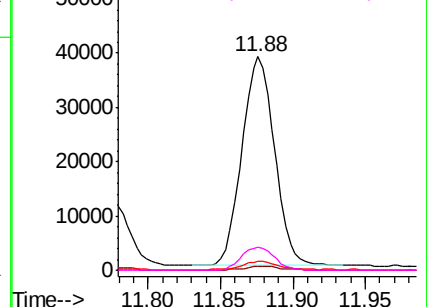
Abundance

Ion 43.00 (42.70 to 43.70): VNO

Ion 70.00 (69.70 to 70.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

Ion 61.00 (60.70 to 61.70): VNO



#76

1,2,3-Trichloropropane

Concen: 31.016 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN053016.D

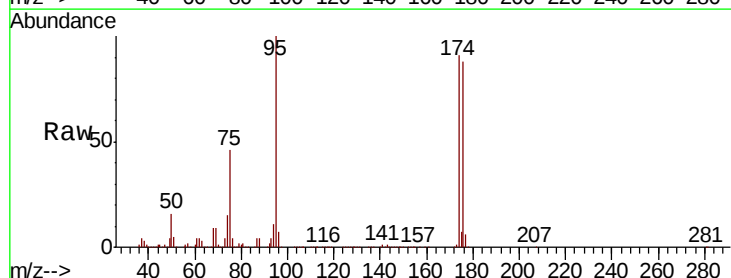
Acq: 19 Dec 2018 17:30

Tgt Ion: 75 Resp: 426021

Ion Ratio Lower Upper

75 100

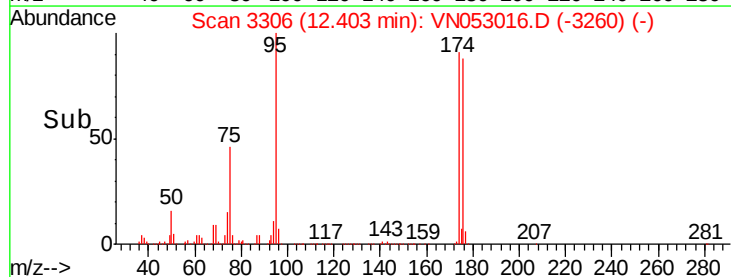
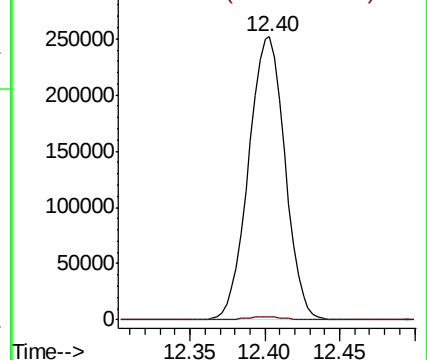
77 1.2 0.0 0.0#

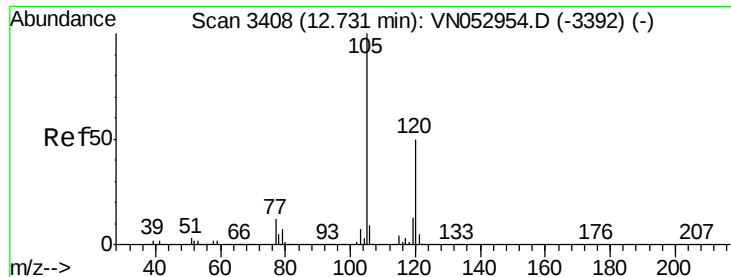


Abundance

Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO





#80

1,3,5-Trimethylbenzene

Concen: 0.409 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN053016.D

Acq: 19 Dec 2018 17:30

Instrument :

MSVOA_N

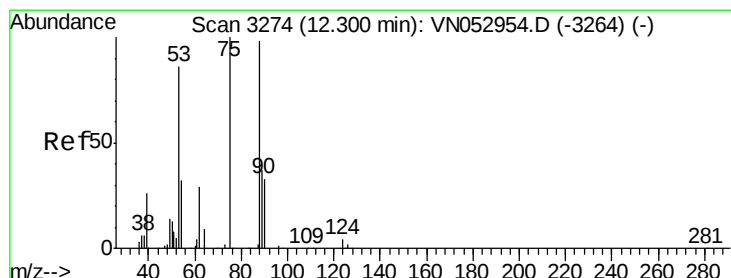
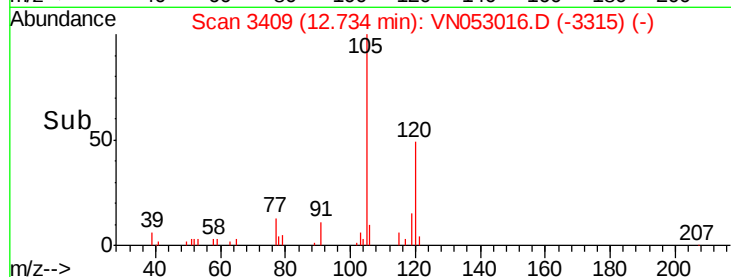
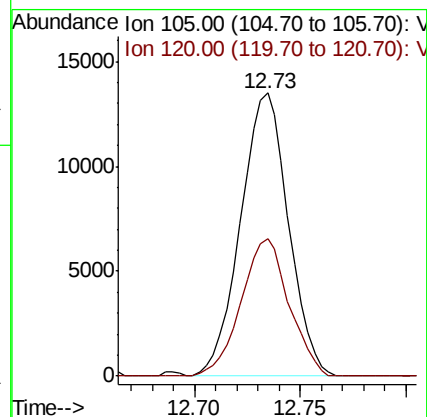
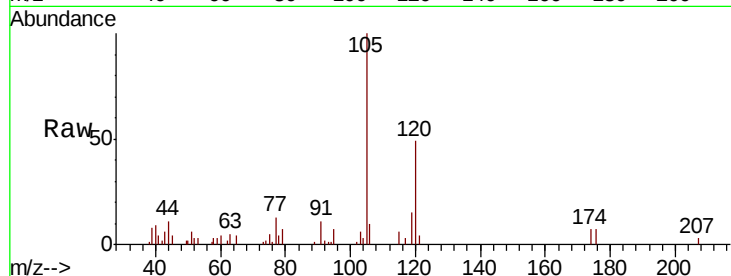
ClientSampleId :

Tot Ion:105 Resp: 21268

Ion Ratio Lower Upper

105 100

120 48.6 24.4 73.2



#81

trans-1,4-Dichloro-2-butene

Concen: 99.967 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN053016.D

Acq: 19 Dec 2018 17:30

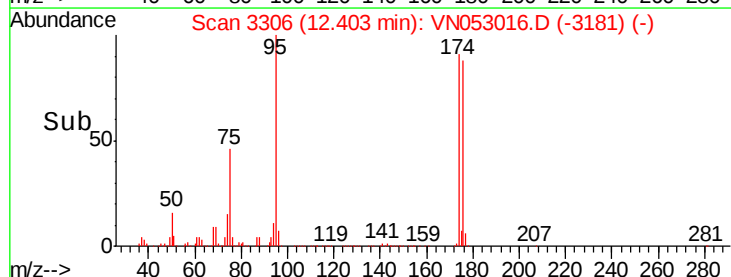
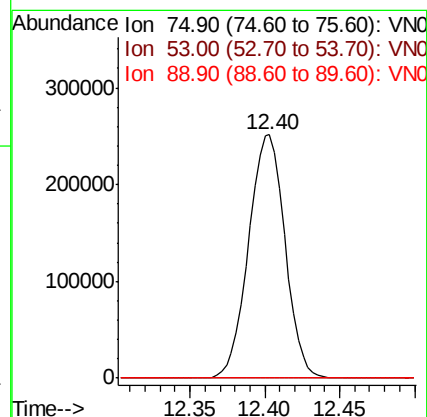
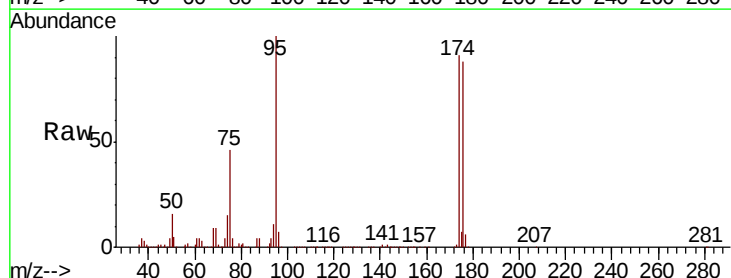
Tgt Ion: 75 Resp: 426021

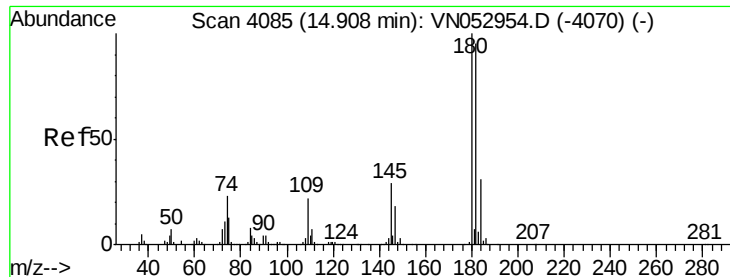
Ion Ratio Lower Upper

75 100

53 0.0 74.7 112.1#

89 0.0 36.1 54.1#

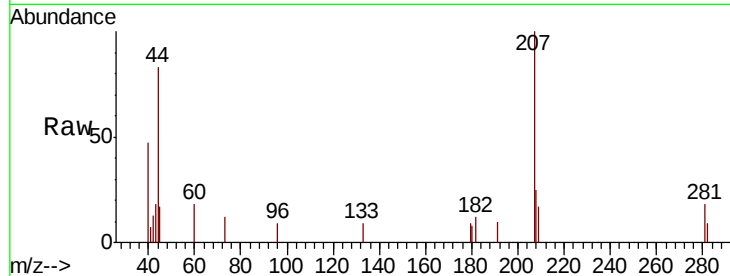




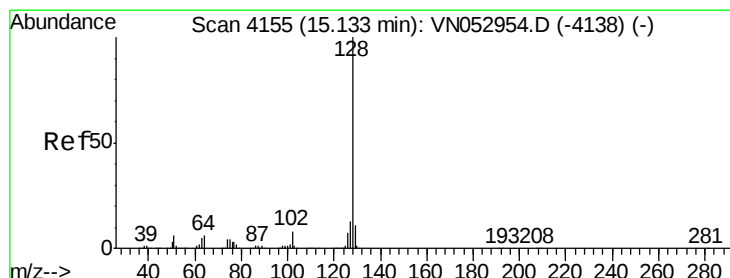
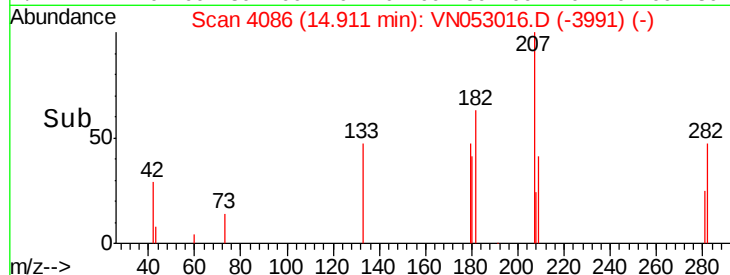
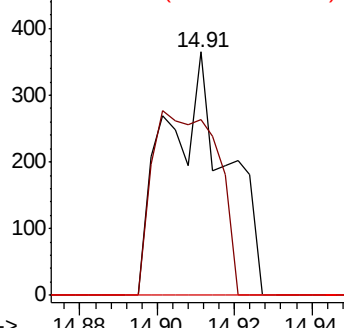
#93
 1,2,4-Trichlorobenzene
 Concen: 0.623 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.00 min
 Lab File: VN053016.D
 Acq: 19 Dec 2018 17:30

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	81.5	47.8	143.3
145	0.0	14.2	42.6#

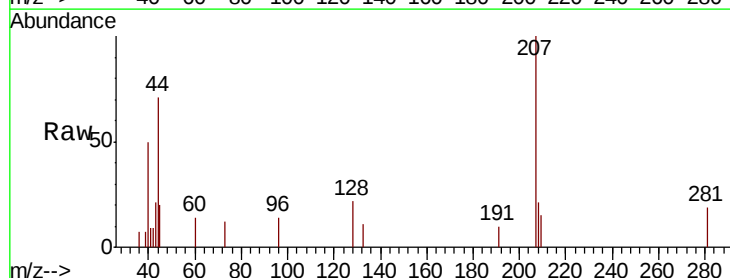


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V



#95
 Naphthalene
 Concen: 1.172 ug/l
 RT: 15.13 min Scan# 4154
 Delta R.T. -0.00 min
 Lab File: VN053016.D
 Acq: 19 Dec 2018 17:30

Tgt Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.2	15.4#
129	0.0	8.6	13.0#



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

