

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091718\
 Data File : VN051273.D
 Acq On : 17 Sep 2018 16:27
 Operator : MD\SY
 Sample : VN0917WBL01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 19 09:24:42 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091718W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 18 06:04:06 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	505627	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	752587	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	655627	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	236328	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	351807	64.02	ug/l	0.00
Spiked Amount			Recovery	=	128.04%	
35) Dibromofluoromethane	7.59	113	343283	58.70	ug/l	0.00
Spiked Amount			Recovery	=	117.40%	
50) Toluene-d8	10.09	98	1204689	55.73	ug/l	0.00
Spiked Amount			Recovery	=	111.46%	
62) 4-Bromofluorobenzene	12.40	95	327926	47.69	ug/l	0.00
Spiked Amount			Recovery	=	95.38%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	2203	Below Cal		95
5) Bromomethane	2.57	94	2720	1.22 ug/l		92
10) Methyl Iodide	3.96	142	707	6.22 ug/l	#	43
11) Tert butyl alcohol	4.78	59	62	0.20 ug/l	#	73
13) Acrolein	3.61	56	374	11.12 ug/l		96
15) Acrylonitrile	4.99	53	746	0.47 ug/l	#	64
16) Acetone	3.82	43	2856	Below Cal	#	86
17) Carbon Disulfide	4.05	76	7577	0.38 ug/l		100
18) Methyl Acetate	4.32	43	958	Below Cal	#	63
20) Methylene Chloride	4.56	84	2702	0.45 ug/l	#	93
21) trans-1,2-Dichloroethene	5.04	96	1356	0.24 ug/l	#	67
23) Vinyl Acetate	5.90	43	2393	0.25 ug/l	#	70
25) 2-Butanone	6.84	43	757	0.43 ug/l		89
29) Tetrahydrofuran	7.22	42	994	0.91 ug/l	#	49
31) Cyclohexane	7.67	56	8167	0.85 ug/l	#	1
38) Carbon Tetrachloride	7.66	117	43519	5.12 ug/l	#	17
46) Dibromomethane	9.21	93	750	0.20 ug/l		88
49) 1,4-Dioxane	9.20	88	299	5.92 ug/l	#	43
51) 4-Methyl-2-Pentanone	9.99	43	3980	1.06 ug/l		93
53) t-1,3-Dichloropropene	10.38	75	1774	0.24 ug/l	#	74
56) Ethyl methacrylate	10.43	69	865	2.19 ug/l	#	86
58) 2-Chloroethyl Vinyl ether	9.69	63	423	13.10 ug/l	#	63
59) 2-Hexanone	10.75	43	4370	1.78 ug/l		82
64) Tetrachloroethene	10.63	164	1256	0.20 ug/l		86
65) Chlorobenzene	11.43	112	6597	0.41 ug/l		99
67) Ethyl Benzene	11.51	91	7393	0.29 ug/l		96
68) m/p-Xylenes	11.62	106	4944	0.49 ug/l		97
70) Styrene	11.97	104	6497	1.62 ug/l		98
71) Bromoform	12.12	173	1003	0.25 ug/l	#	28
73) Isopropylbenzene	12.25	105	5010	0.25 ug/l		97
74) N-amyl acetate	12.08	43	2965	0.72 ug/l	#	84
75) 1,1,2,2-Tetrachloroethane	12.50	83	1505	Below Cal	#	92
76) 1,2,3-Trichloropropane	12.40	75	149639	46.10 ug/l	#	100
77) Bromobenzene	12.53	156	5961	0.30 ug/l		78

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

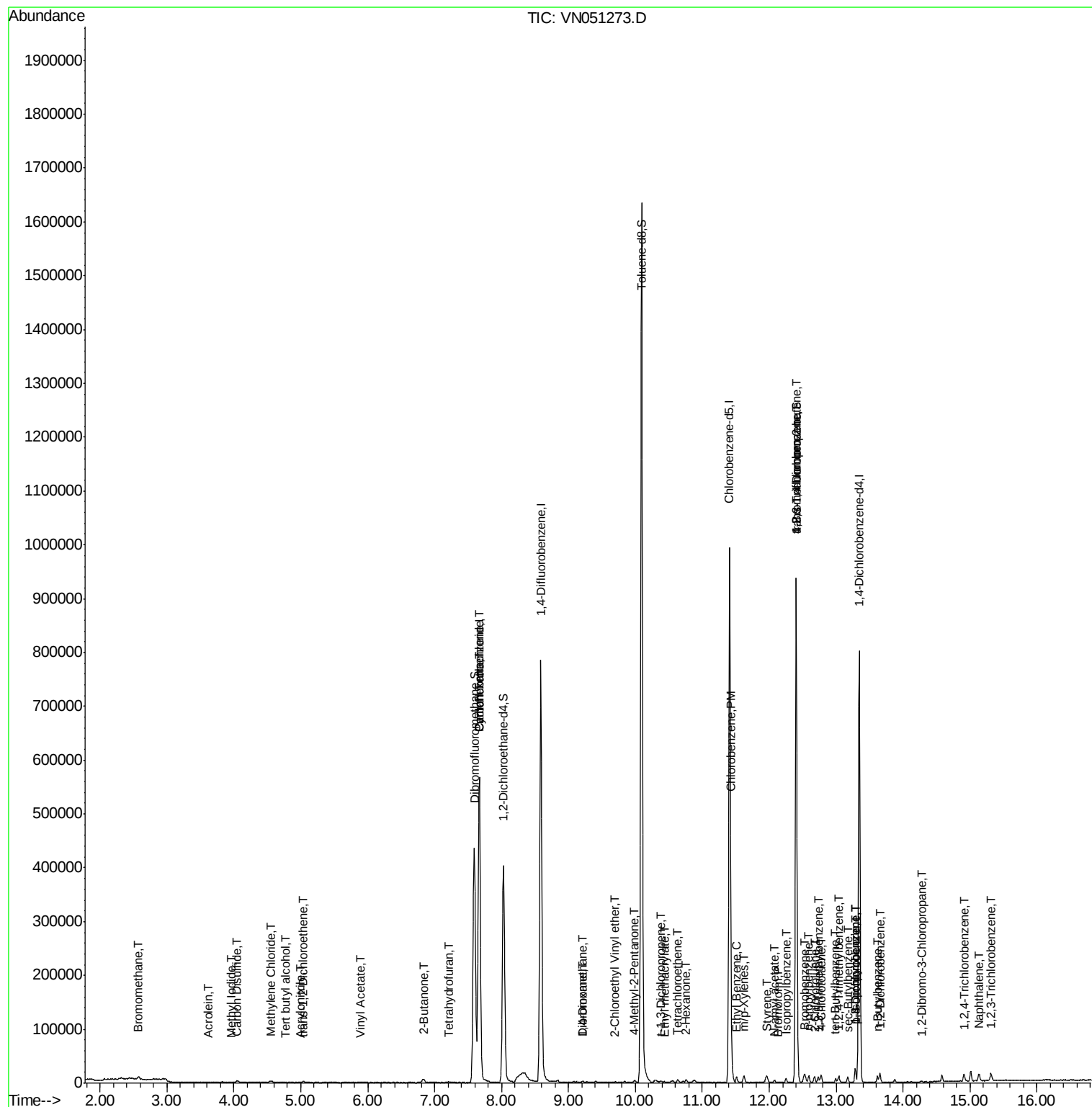
78) n-propylbenzene	12.59	91	11363	0.53	ug/l	99
79) 2-Chlorotoluene	12.68	91	6959	0.51	ug/l	97
80) 1,3,5-Trimethylbenzene	12.73	105	5335	0.33	ug/l	93
81) trans-1,4-Dichloro-2-buten	12.40	75	149639	140.63	ug/l #	15
82) 4-Chlorotoluene	12.78	91	9696	0.75	ug/l	92
83) tert-Butylbenzene	12.99	119	4366	0.31	ug/l	94
84) 1,2,4-Trimethylbenzene	13.04	105	6915	0.45	ug/l	94
85) sec-Butylbenzene	13.17	105	7280	0.41	ug/l	100
86) p-Isopropyltoluene	13.29	119	6344	0.42	ug/l	97
87) 1,3-Dichlorobenzene	13.28	146	7637	0.87	ug/l	94
88) 1,4-Dichlorobenzene	13.28	146	7637	1.32	ug/l	93
89) n-Butylbenzene	13.62	91	7336	2.59	ug/l	95
90) Hexachloroethane	13.88	117	902	Below	Cal	94
91) 1,2-Dichlorobenzene	13.65	146	8120	0.52	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	503	1.02	ug/l	65
93) 1,2,4-Trichlorobenzene	14.91	180	5009	6.16	ug/l	92
94) Hexachlorobutadiene	15.01	225	3801	Below	Cal	86
95) Naphthalene	15.13	128	12453	7.41	ug/l	99
96) 1,2,3-Trichlorobenzene	15.32	180	5965	5.32	ug/l	99

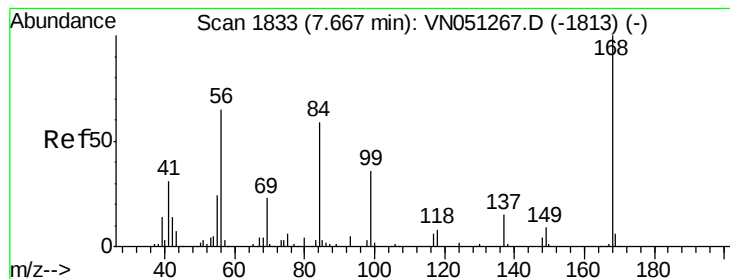
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN051273.D

Acq: 17 Sep 2018 16:27

Instrument :

MSVOA_N

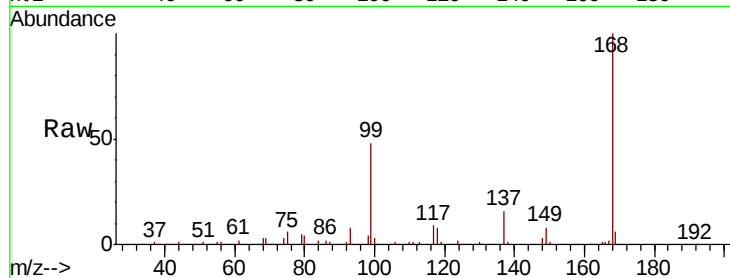
ClientSampled :

Tot Ion:168 Resp: 505627

Ion Ratio Lower Upper

168 100

99 48.0 38.2 57.4



Abundance Ion 167.90 (167.60 to 168.60): VN051267.D (-1813) (-)

Ion 98.90 (98.60 to 99.60): VN051267.D (-1813) (-)

7.67

250000

200000

150000

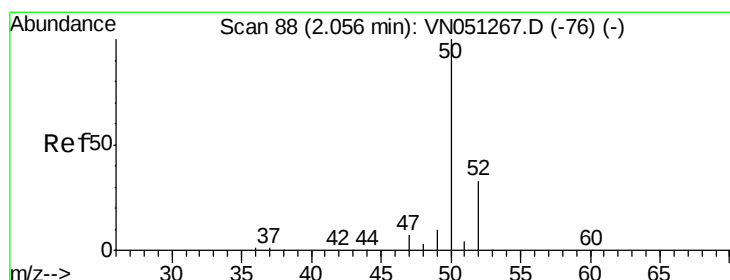
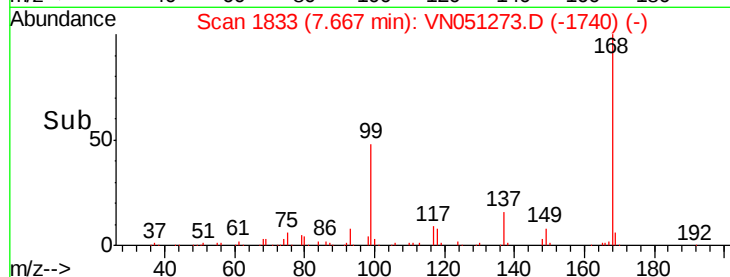
100000

50000

0

7.60 7.70 7.80

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 2.06 min Scan# 89

Delta R.T. 0.00 min

Lab File: VN051273.D

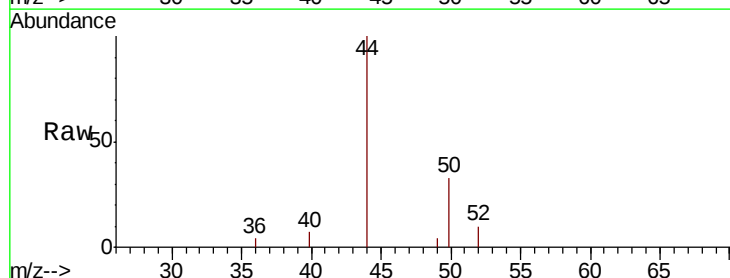
Acq: 17 Sep 2018 16:27

Tgt Ion: 50 Resp: 2203

Ion Ratio Lower Upper

50 100

52 30.2 26.6 40.0



Abundance Ion 49.90 (49.60 to 50.60): VN051267.D (-76) (-)

Ion 51.90 (51.60 to 52.60): VN051267.D (-76) (-)

2.06

1500

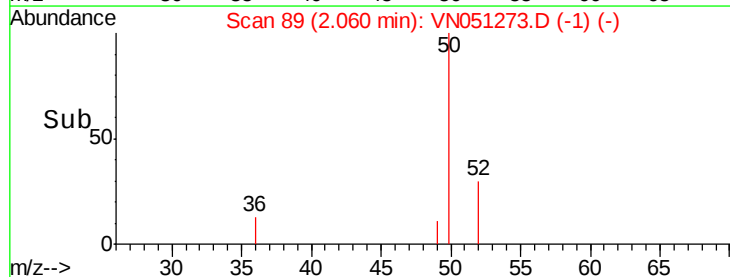
1000

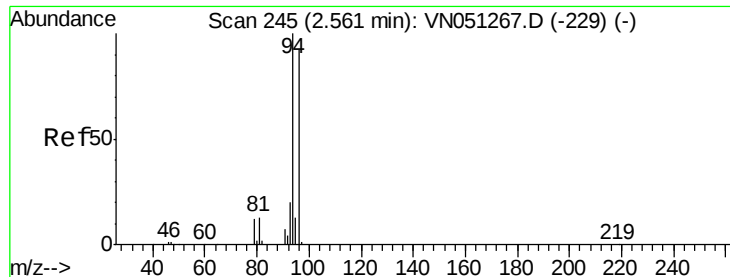
500

0

2.05 2.10

Time-->





#5

Bromomethane

Concen: 1.22 ug/l

RT: 2.57 min Scan# 248

Delta R.T. 0.01 min

Lab File: VN051273.D

Acq: 17 Sep 2018 16:27

Instrument :

MSVOA_N

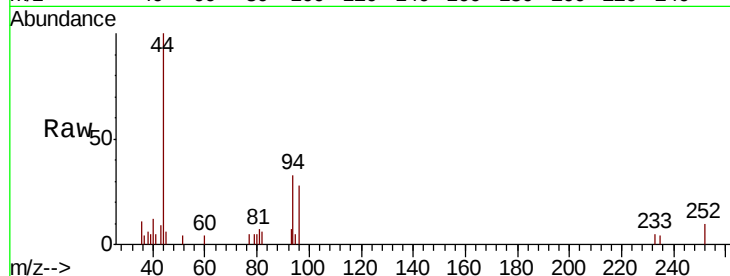
ClientSampled :

Tot Ion: 94 Resp: 2720

Ion Ratio Lower Upper

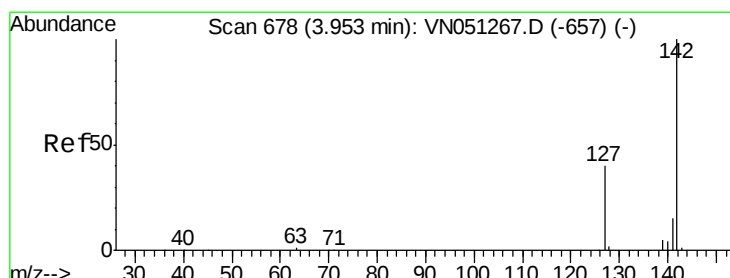
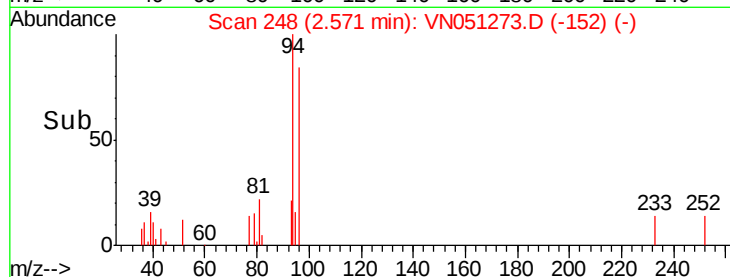
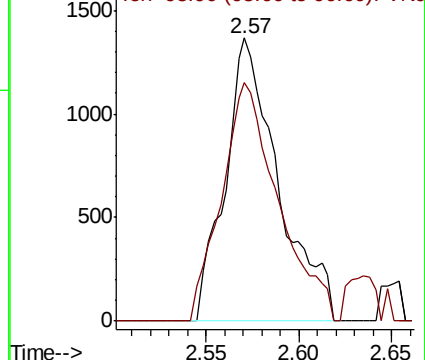
94 100

96 84.3 73.8 110.8



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#10

Methyl Iodide

Concen: 6.22 ug/l

RT: 3.96 min Scan# 681

Delta R.T. 0.01 min

Lab File: VN051273.D

Acq: 17 Sep 2018 16:27

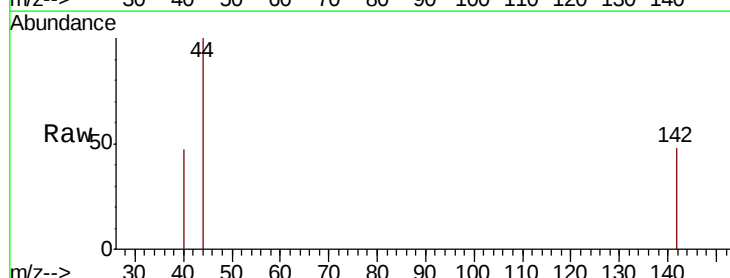
Tgt Ion: 142 Resp: 707

Ion Ratio Lower Upper

142 100

127 0.0 31.7 47.5#

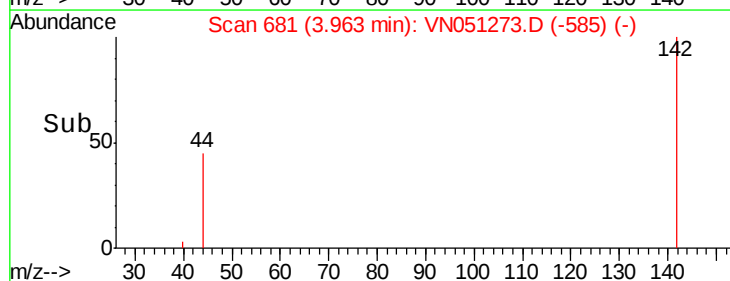
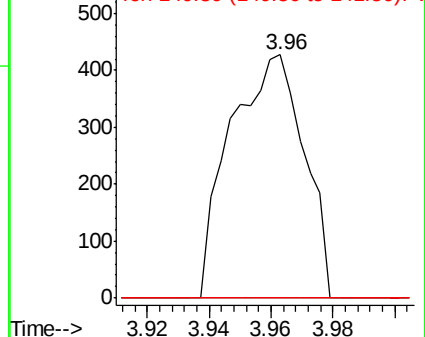
141 0.0 11.6 17.4#

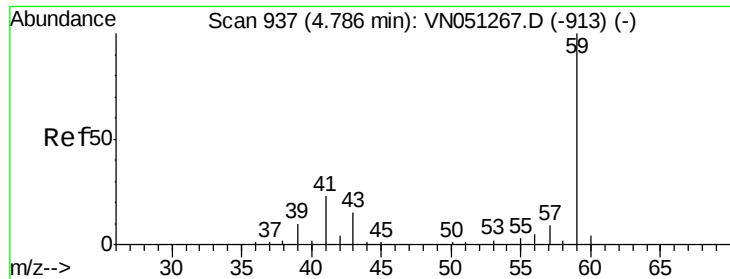


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

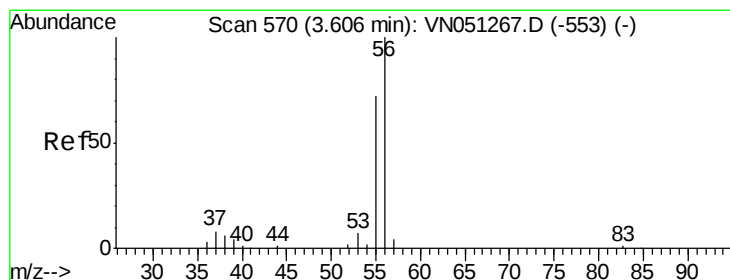
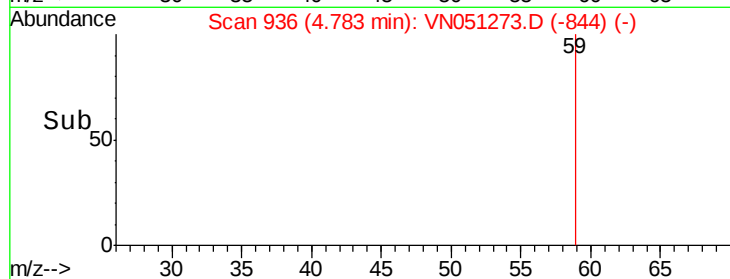
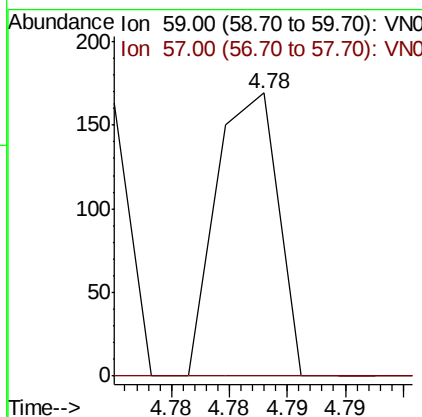
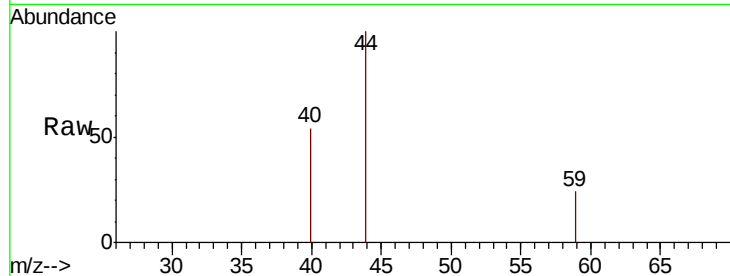




#11
Tert butvl alcohol
Concen: 0.20 ug/l
RT: 4.78 min Scan# 936
Delta R.T. -0.00 min
Lab File: VN051273.D
Acq: 17 Sep 2018 16:27

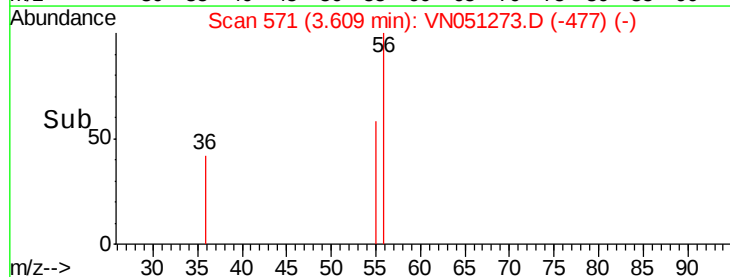
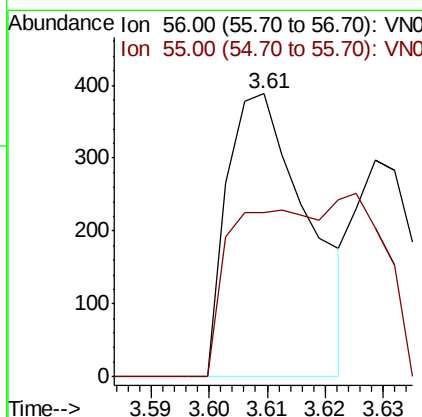
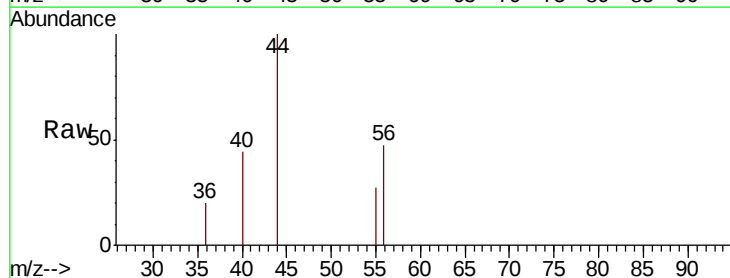
Instrument :
MSVOA_N
ClientSampleId :

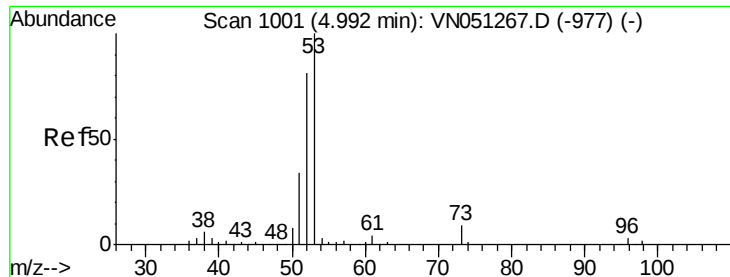
Tot Ion: 59 Resp: 62
Ion Ratio Lower Upper
59 100
57 0.0 7.9 11.9#



#13
Acrolein
Concen: 11.12 ug/l
RT: 3.61 min Scan# 571
Delta R.T. 0.00 min
Lab File: VN051273.D
Acq: 17 Sep 2018 16:27

Tgt Ion: 56 Resp: 374
Ion Ratio Lower Upper
56 100
55 67.4 56.4 84.6





#15

Acrylonitrile

Concen: 0.47 ug/l

RT: 4.99 min Scan# 1001

Delta R.T. 0.00 min

Lab File: VN051273.D

Acq: 17 Sep 2018 16:27

Instrument :
MSVOA_N
ClientSampled :

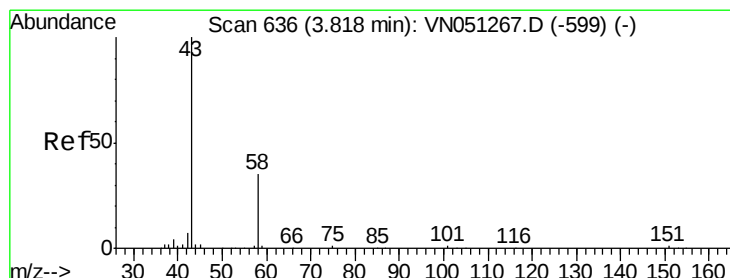
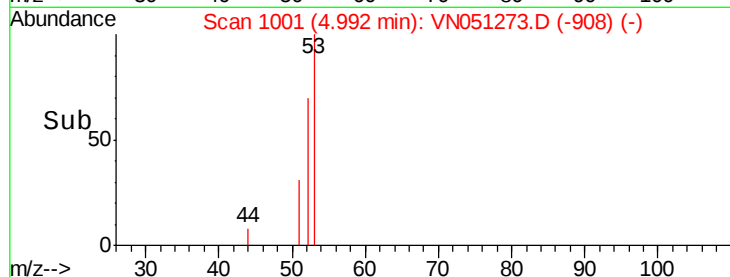
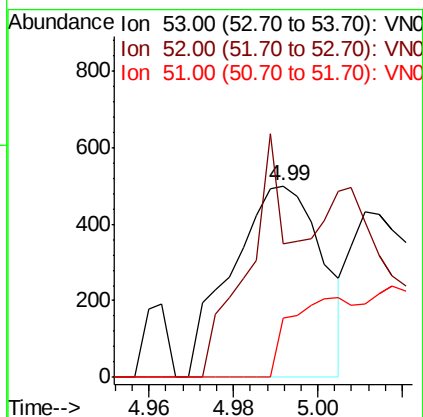
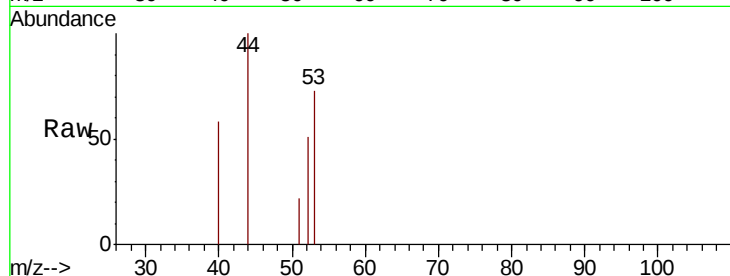
Tot Ion: 53 Resp: 746

Ion Ratio Lower Upper

53 100

52 59.0 65.0 97.6#

51 0.0 28.0 42.0#



#16

Acetone

Concen: Below Cal

RT: 3.82 min Scan# 638

Delta R.T. 0.01 min

Lab File: VN051273.D

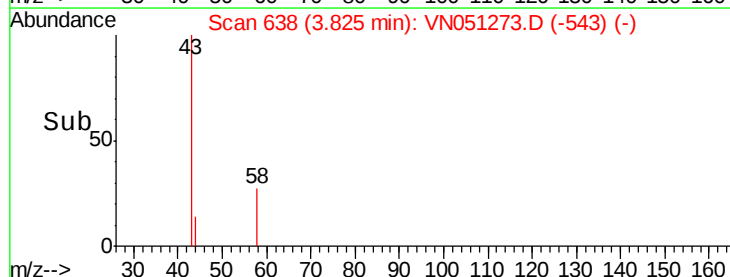
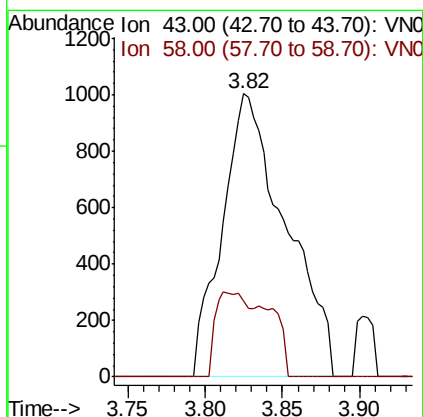
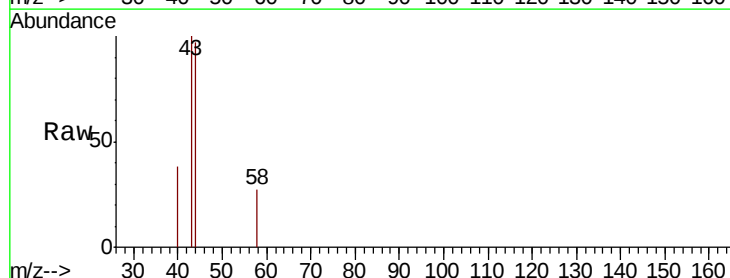
Acq: 17 Sep 2018 16:27

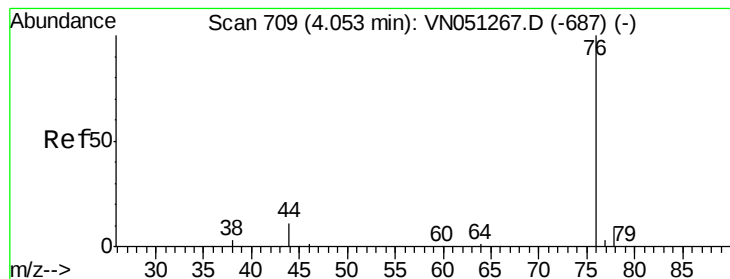
Tgt Ion: 43 Resp: 2856

Ion Ratio Lower Upper

43 100

58 26.9 28.2 42.2#





#17

Carbon Disulfide

Concen: 0.38 ug/l

RT: 4.05 min Scan# 709

Delta R.T. 0.00 min

Lab File: VN051273.D

Acq: 17 Sep 2018 16:27

Instrument :

MSVOA_N

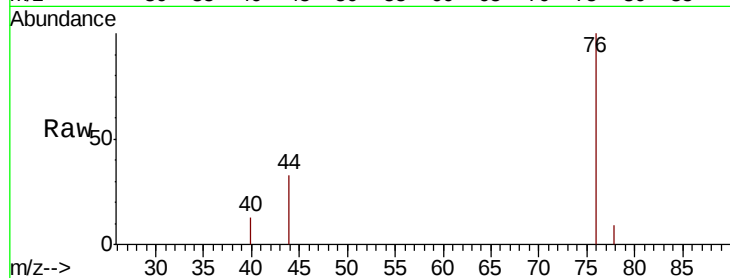
ClientSampled :

Tot Ion: 76 Resp: 7577

Ion Ratio Lower Upper

76 100

78 9.0 7.4 11.0



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

4.05

3000

2500

2000

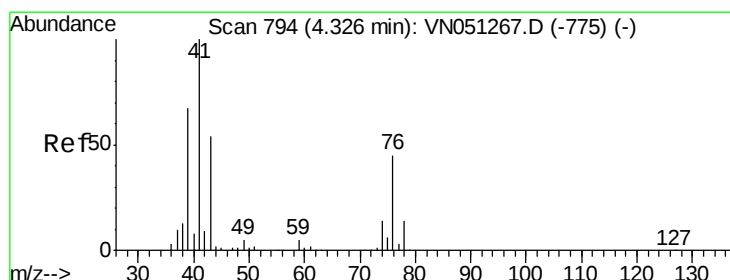
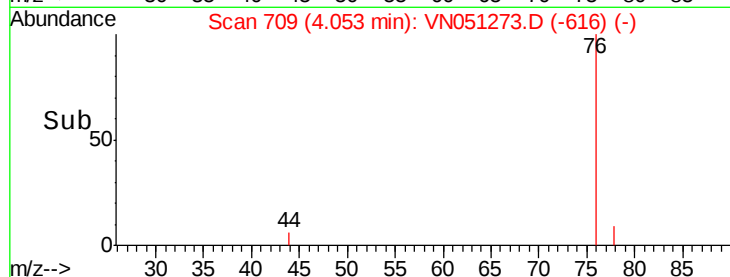
1500

1000

500

0

Time-->



#18

Methyl Acetate

Concen: Below Cal

RT: 4.32 min Scan# 793

Delta R.T. -0.00 min

Lab File: VN051273.D

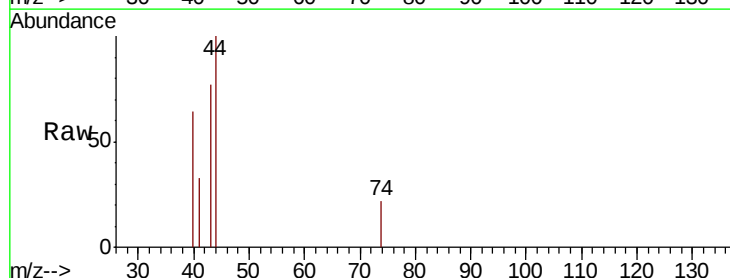
Acq: 17 Sep 2018 16:27

Tgt Ion: 43 Resp: 958

Ion Ratio Lower Upper

43 100

74 6.9 20.8 31.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

4.32

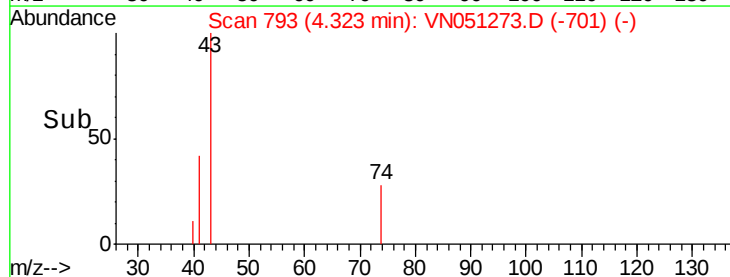
600

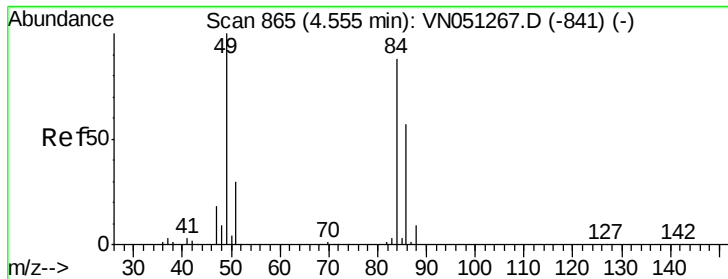
400

200

0

Time-->





#20

Methylene Chloride

Concen: 0.45 ug/l

RT: 4.56 min Scan# 866

Delta R.T. 0.00 min

Lab File: VN051273.D

Acq: 17 Sep 2018 16:27

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 84 Resp: 2702

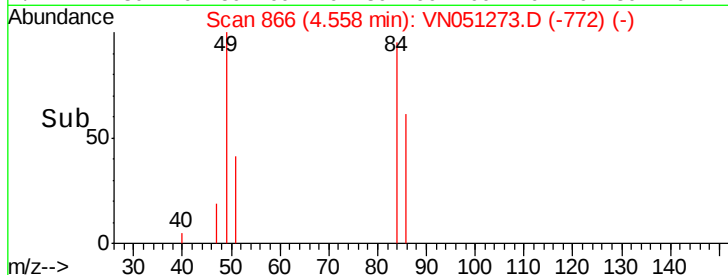
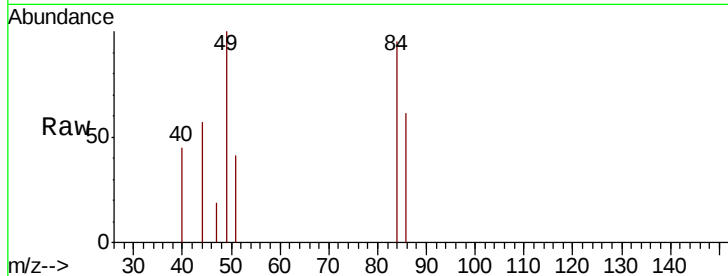
Ion Ratio Lower Upper

84 100

49 104.9 91.2 136.8

51 42.9 27.7 41.5#

86 63.5 52.0 78.0

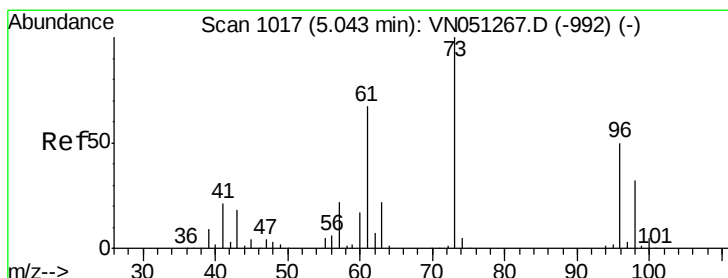
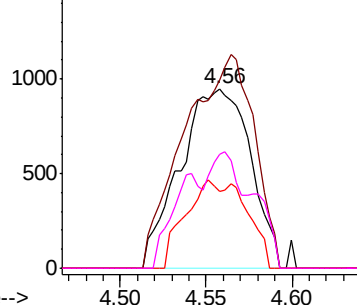


Abundance Ion 83.90 (83.60 to 84.60): VN0

Ion 48.90 (48.60 to 49.60): VN0

Ion 50.90 (50.60 to 51.60): VN0

Ion 85.90 (85.60 to 86.60): VN0



#21

trans-1,2-Dichloroethene

Concen: 0.24 ug/l

RT: 5.04 min Scan# 1016

Delta R.T. -0.00 min

Lab File: VN051273.D

Acq: 17 Sep 2018 16:27

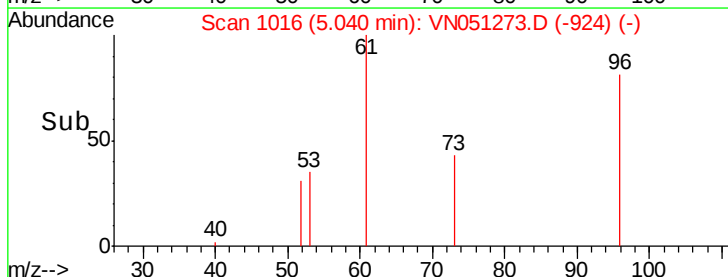
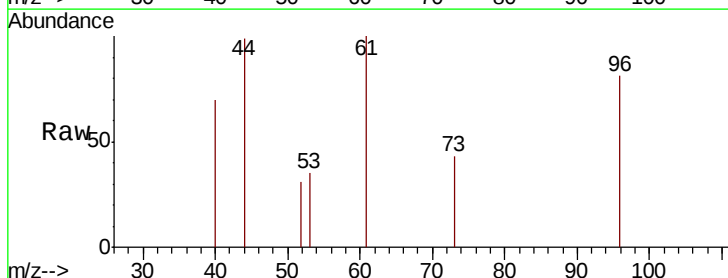
Tgt Ion: 96 Resp: 1356

Ion Ratio Lower Upper

96 100

61 122.8 106.7 160.1

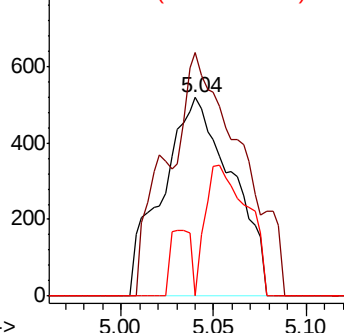
98 0.0 51.4 77.0#

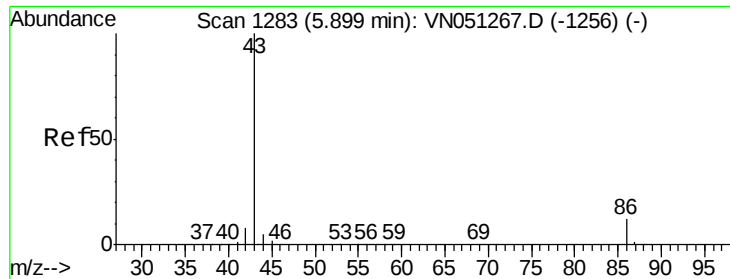


Abundance Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

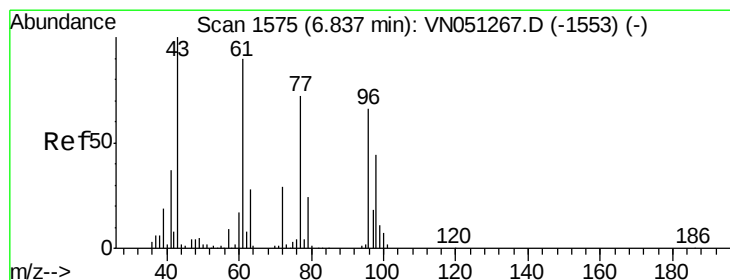
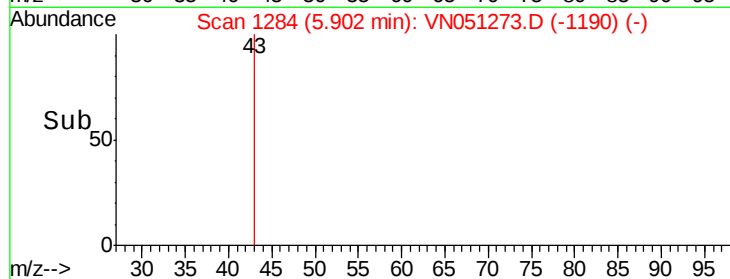
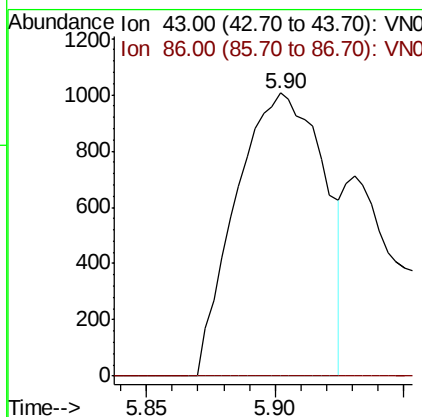
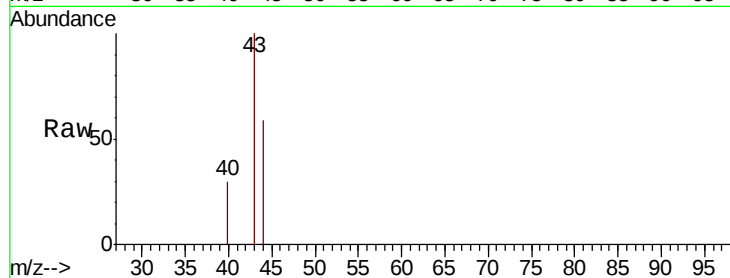




#23
 Vinyl Acetate
 Concen: 0.25 ug/l
 RT: 5.90 min Scan# 1284
 Delta R.T. 0.00 min
 Lab File: VN051273.D
 Acq: 17 Sep 2018 16:27

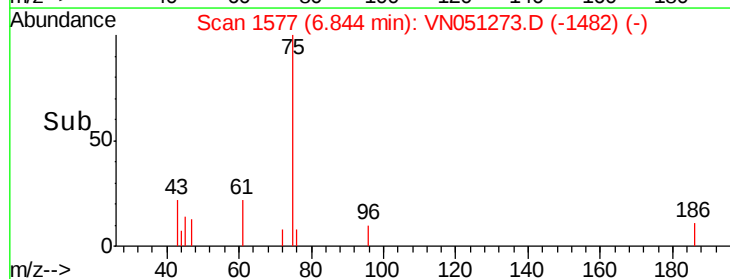
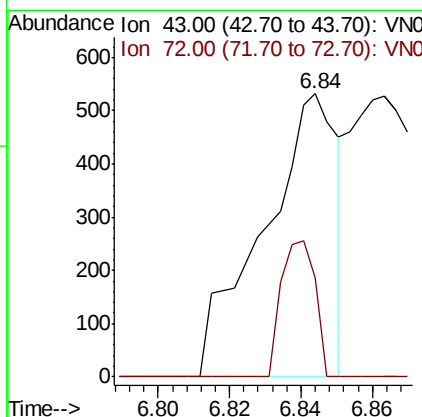
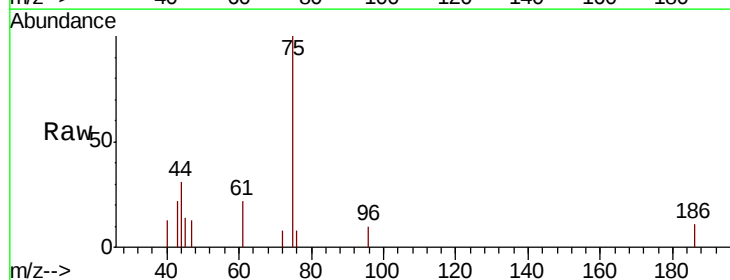
Instrument :
 MSVOA_N
 ClientSampled :

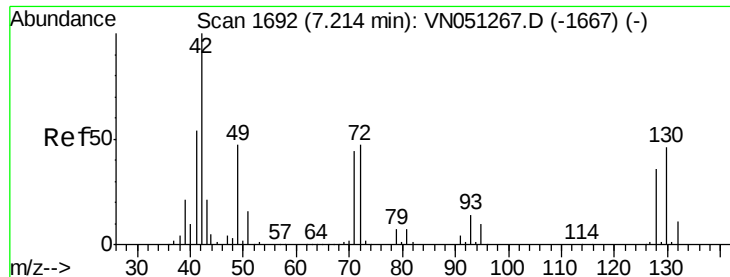
Tot Ion: 43 Resp: 2393
 Ion Ratio Lower Upper
 43 100
 86 0.0 9.3 13.9#



#25
 2-Butanone
 Concen: 0.43 ug/l
 RT: 6.84 min Scan# 1577
 Delta R.T. 0.01 min
 Lab File: VN051273.D
 Acq: 17 Sep 2018 16:27

Tgt Ion: 43 Resp: 757
 Ion Ratio Lower Upper
 43 100
 72 35.0 23.4 35.0

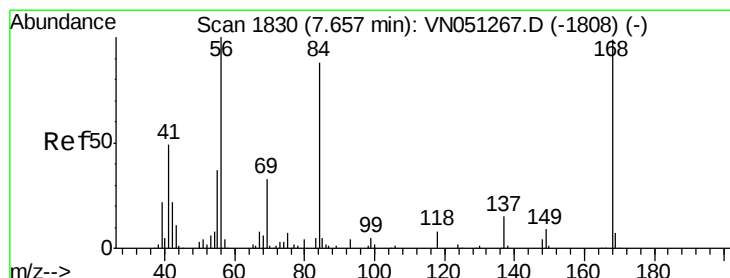
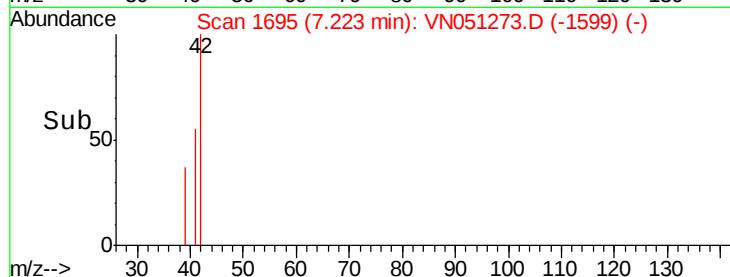
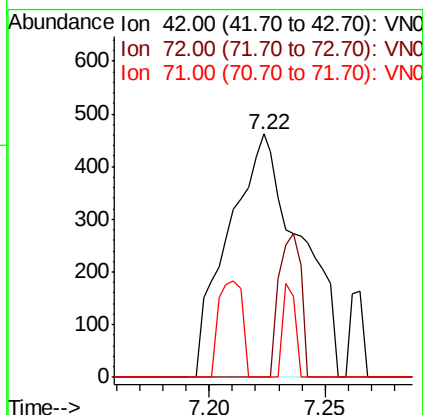
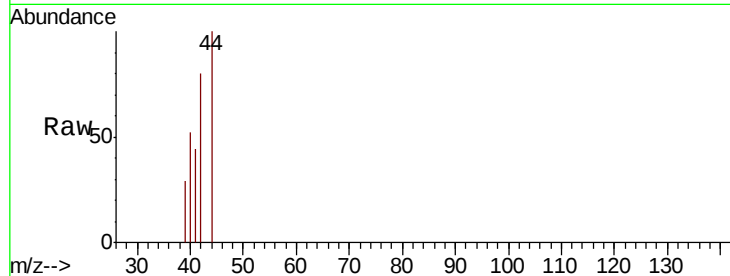




#29
Tetrahydrofuran
Concen: 0.91 ug/l
RT: 7.22 min Scan# 1695
Delta R.T. 0.01 min
Lab File: VN051273.D
Acq: 17 Sep 2018 16:27

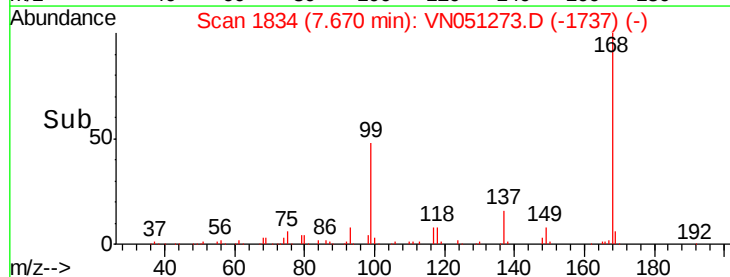
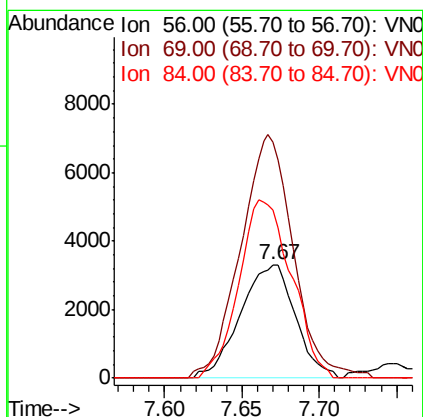
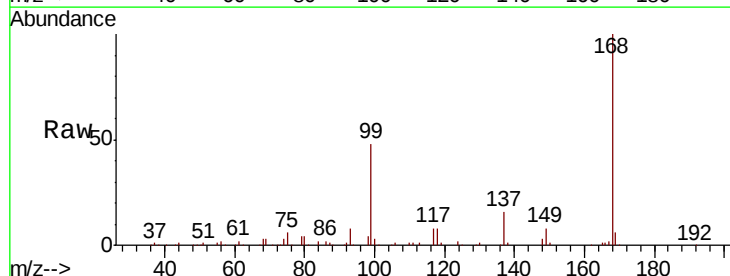
Instrument :
MSVOA_N
ClientSampleId :

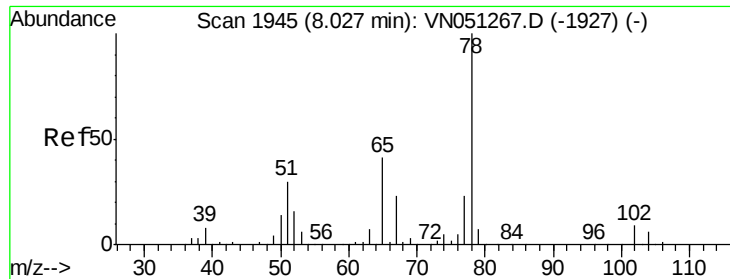
Tot Ion: 42 Resp: 994
Ion Ratio Lower Upper
42 100
72 17.9 37.6 56.4#
71 6.4 35.4 53.2#



#31
Cyclohexane
Concen: 0.85 ug/l
RT: 7.67 min Scan# 1834
Delta R.T. 0.01 min
Lab File: VN051273.D
Acq: 17 Sep 2018 16:27

Tgt Ion: 56 Resp: 8167
Ion Ratio Lower Upper
56 100
69 208.5 26.2 39.2#
84 148.8 70.6 106.0#

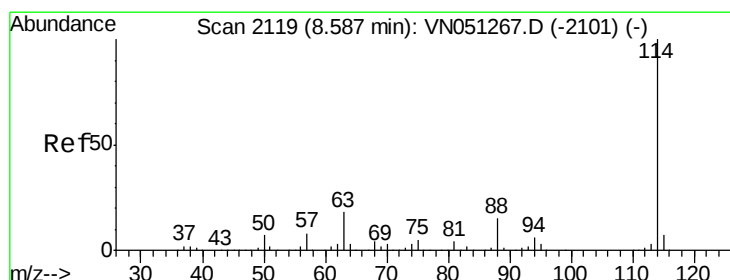
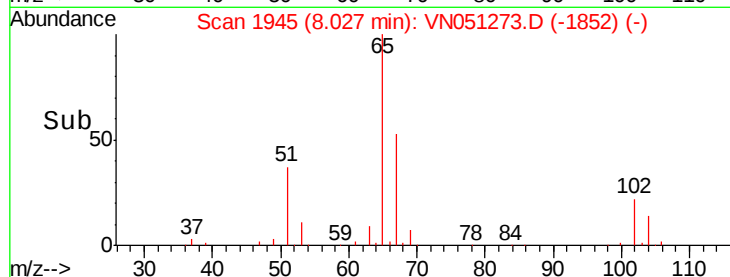
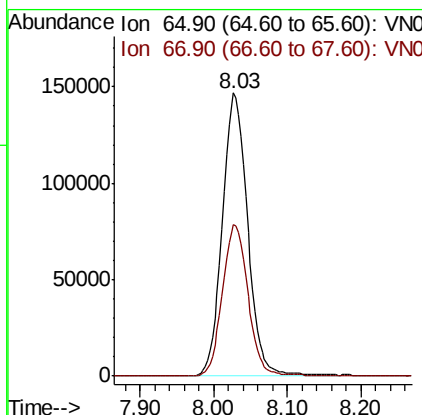
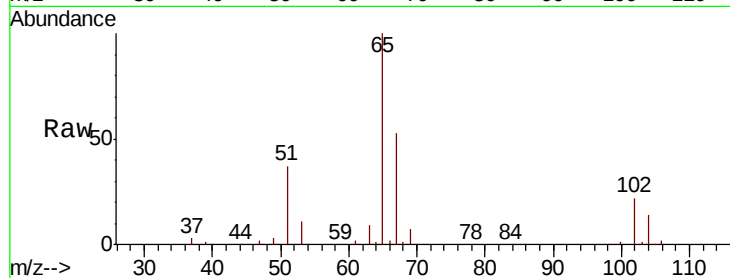




#33
 1,2-Dichloroethane-d4
 Concen: 64.02 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN051273.D
 Acq: 17 Sep 2018 16:27

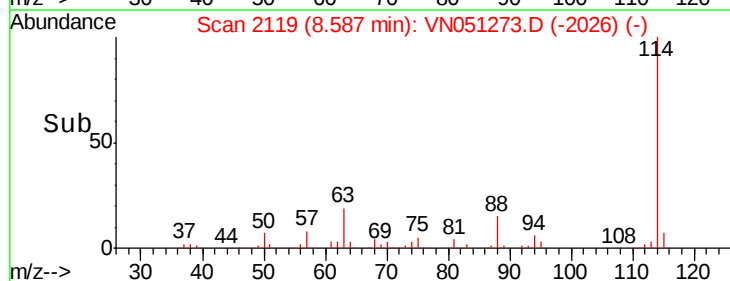
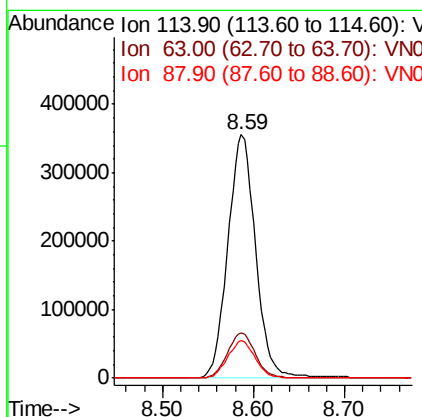
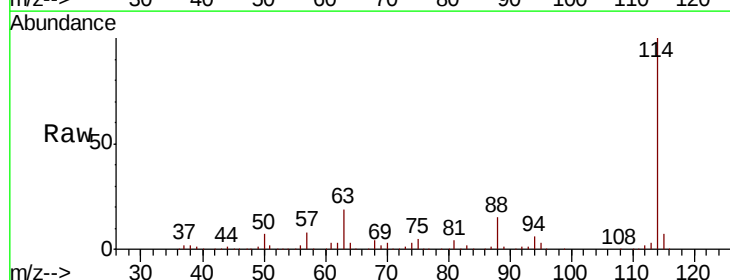
Instrument :
 MSVOA_N
 ClientSampleId :

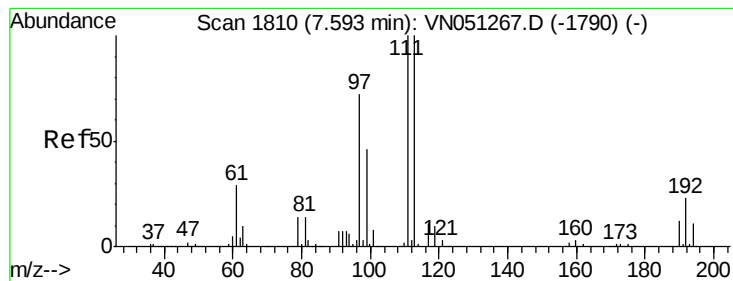
Tot Ion: 65 Resp: 351807
 Ion Ratio Lower Upper
 65 100
 67 54.0 0.0 111.0



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN051273.D
 Acq: 17 Sep 2018 16:27

Tgt Ion: 114 Resp: 752587
 Ion Ratio Lower Upper
 114 100
 63 18.7 0.0 36.8
 88 15.4 0.0 30.8





#35

Dibromofluoromethane

Concen: 58.70 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN051273.D

Acq: 17 Sep 2018 16:27

Instrument :
MSVOA_N
ClientSampleId :

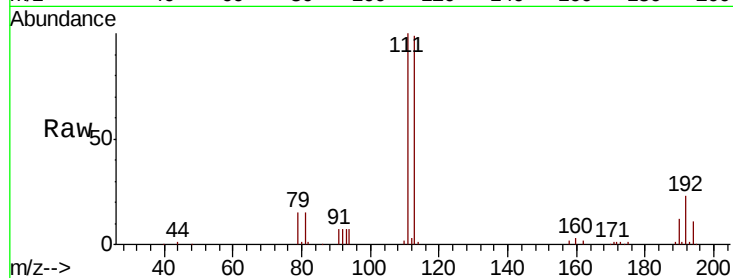
Tot Ion:113 Resp: 343283

Ion Ratio Lower Upper

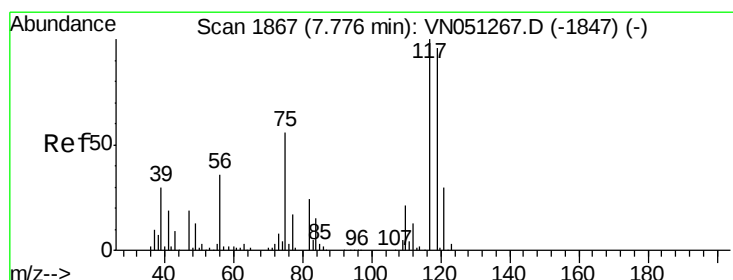
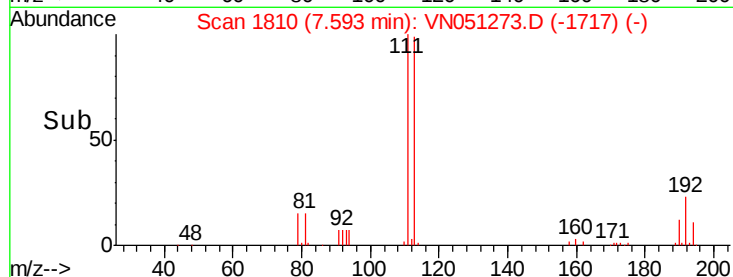
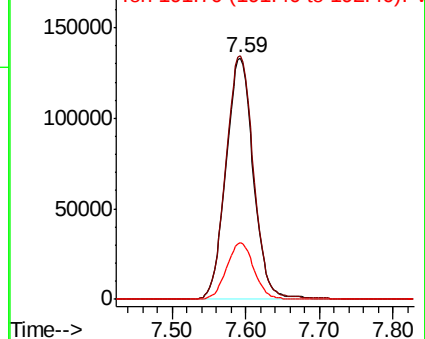
113 100

111 101.8 82.2 123.4

192 23.6 19.0 28.6



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



#38

Carbon Tetrachloride

Concen: 5.12 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.11 min

Lab File: VN051273.D

Acq: 17 Sep 2018 16:27

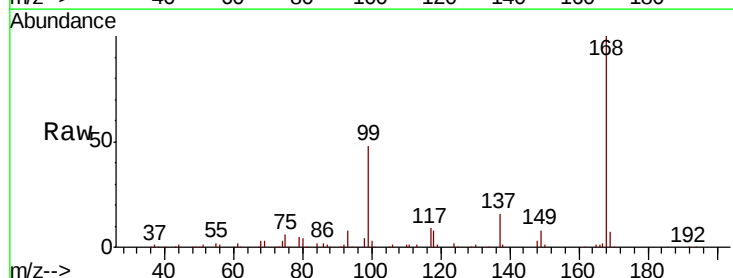
Tgt Ion:117 Resp: 43519

Ion Ratio Lower Upper

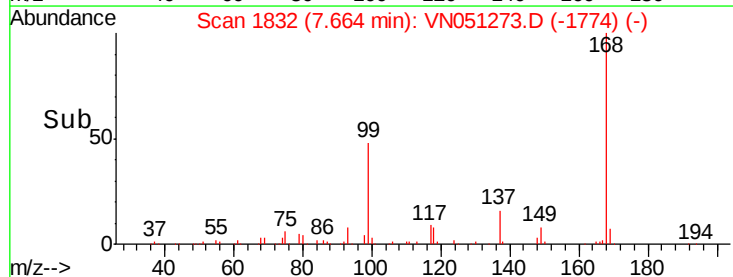
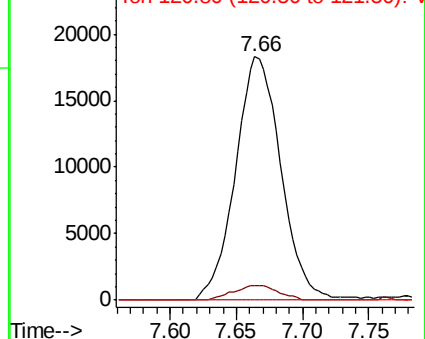
117 100

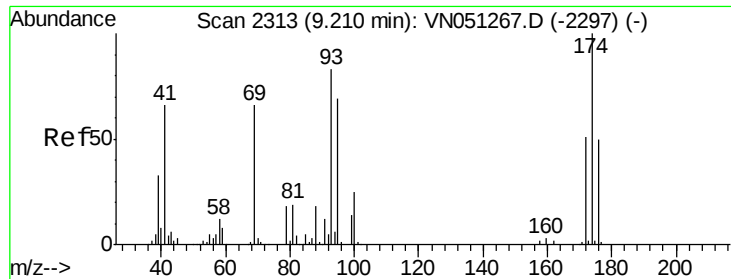
119 5.9 76.8 115.2#

121 0.0 24.2 36.2#



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

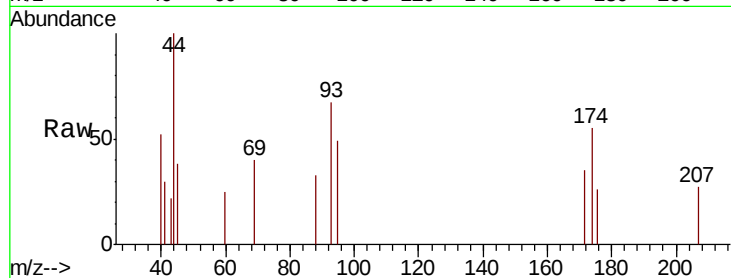




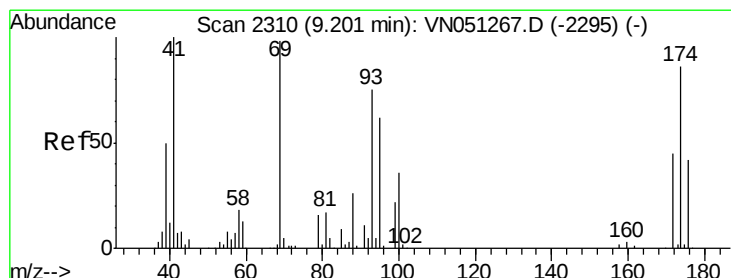
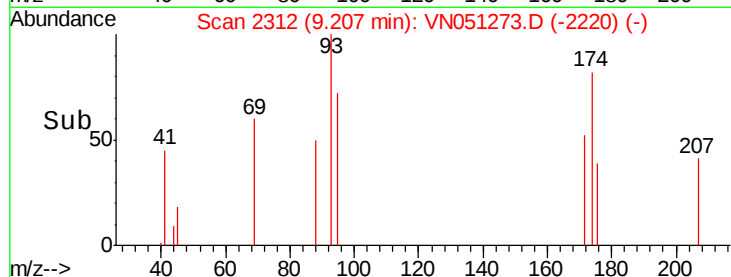
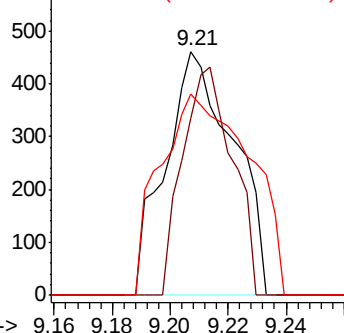
#46
Dibromomethane
Concen: 0.20 ug/l
RT: 9.21 min Scan# 2312
Delta R.T. -0.00 min
Lab File: VN051273.D
Acq: 17 Sep 2018 16:27

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 93 Resp: 750
Ion Ratio Lower Upper
93 100
95 68.8 66.6 100.0
174 108.7 95.6 143.4

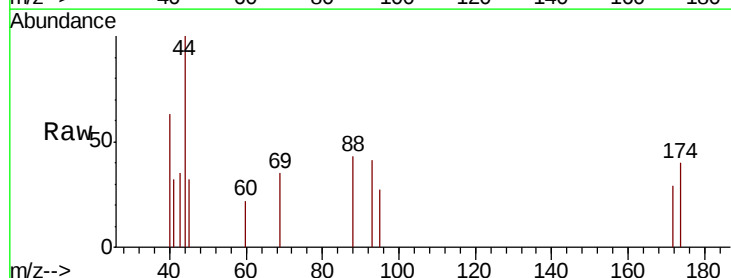


Abundance Ion 92.80 (92.50 to 93.50): VN0
Ion 94.80 (94.50 to 95.50): VN0
Ion 173.70 (173.40 to 174.40): VN0

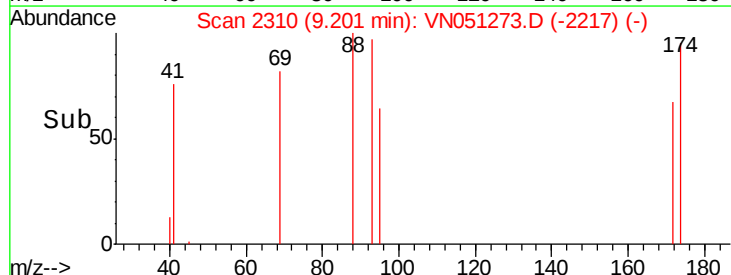
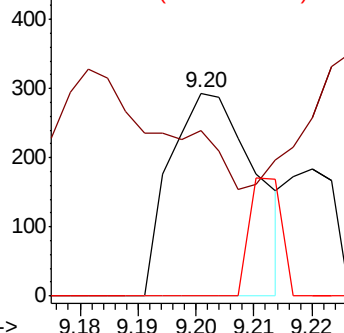


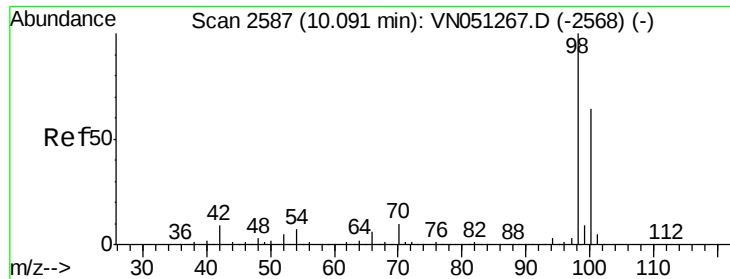
#49
1,4-Dioxane
Concen: 5.92 ug/l
RT: 9.20 min Scan# 2310
Delta R.T. 0.00 min
Lab File: VN051273.D
Acq: 17 Sep 2018 16:27

Tgt Ion: 88 Resp: 299
Ion Ratio Lower Upper
88 100
43 0.0 25.3 37.9#
58 21.7 54.9 82.3#



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: 55.73 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN051273.D

Acq: 17 Sep 2018 16:27

Instrument :

MSVOA_N

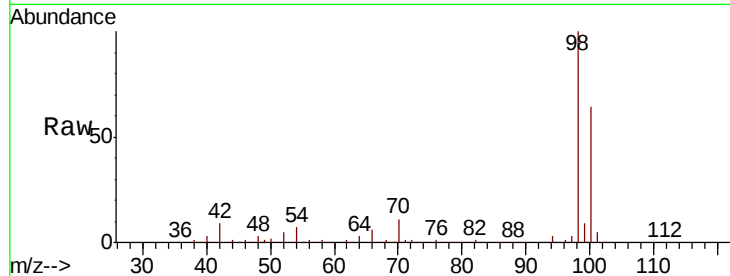
ClientSampled :

Tot Ion: 98 Resp: 1204689

Ion Ratio Lower Upper

98 100

100 64.2 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VN051267.D (-2568) (-)

Ion 100.00 (99.70 to 100.70): VN051267.D (-2568) (-)

10.09

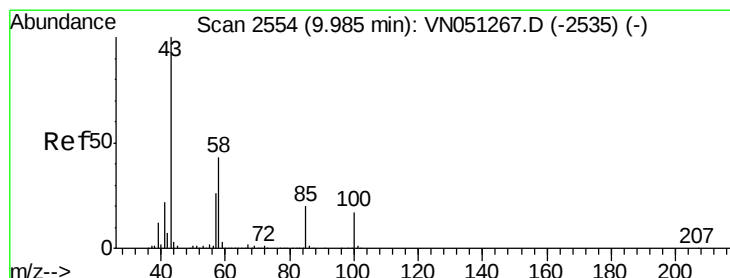
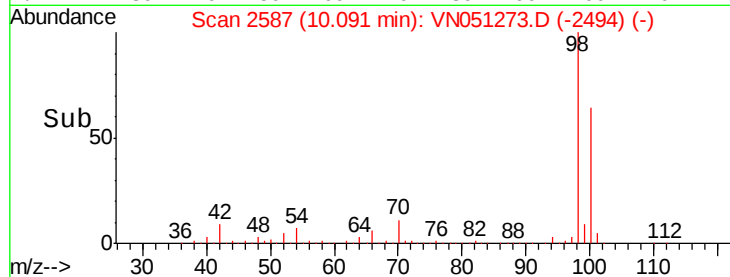
600000

400000

200000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.06 ug/l

RT: 9.99 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN051273.D

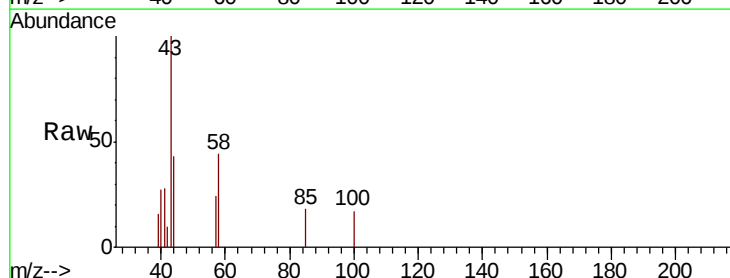
Acq: 17 Sep 2018 16:27

Tgt Ion: 43 Resp: 3980

Ion Ratio Lower Upper

43 100

58 37.8 33.8 50.6



Abundance Ion 43.00 (42.70 to 43.70): VN051267.D (-2535) (-)

Ion 58.00 (57.70 to 58.70): VN051267.D (-2535) (-)

9.99

2000

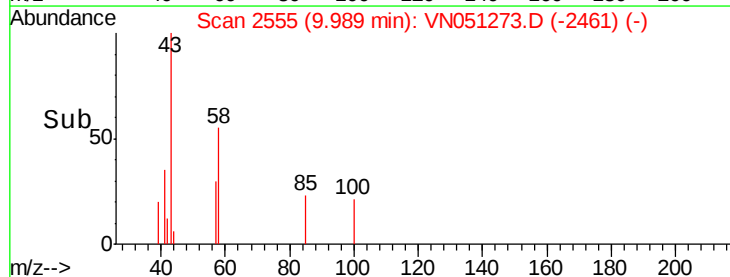
1500

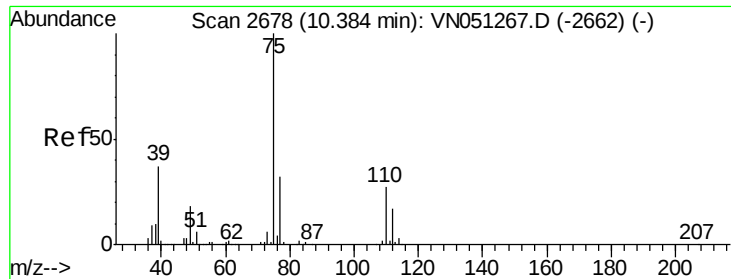
1000

500

0

Time-->

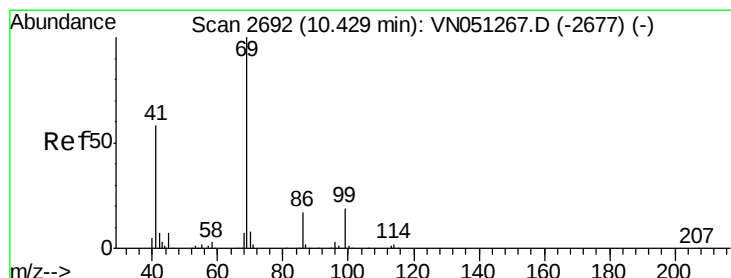
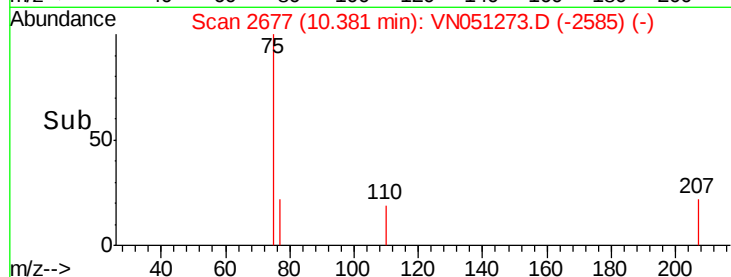
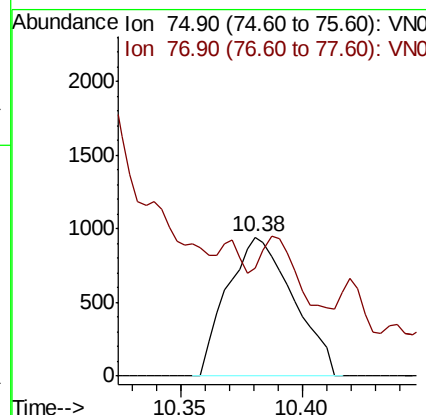
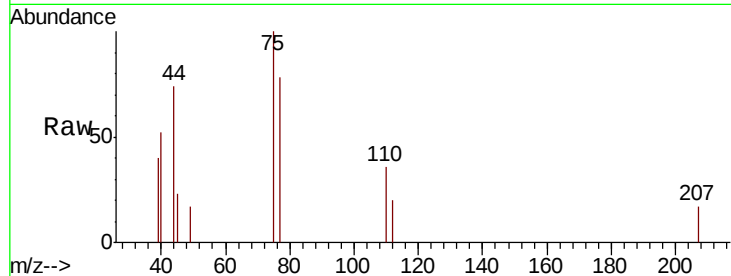




#53
t-1,3-Dichloropropene
Concen: 0.24 ug/l
RT: 10.38 min Scan# 2677
Delta R.T. -0.00 min
Lab File: VN051273.D
Acq: 17 Sep 2018 16:27

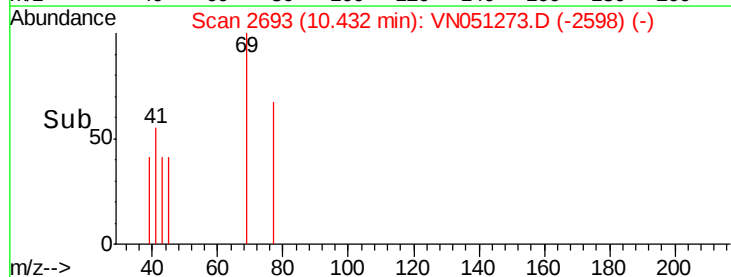
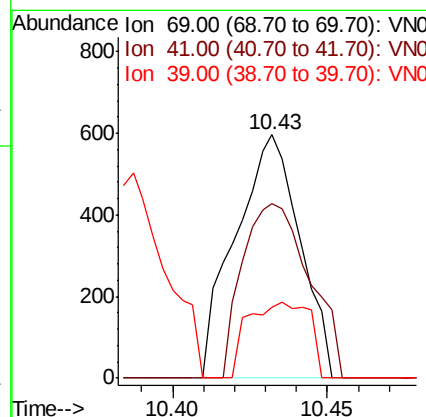
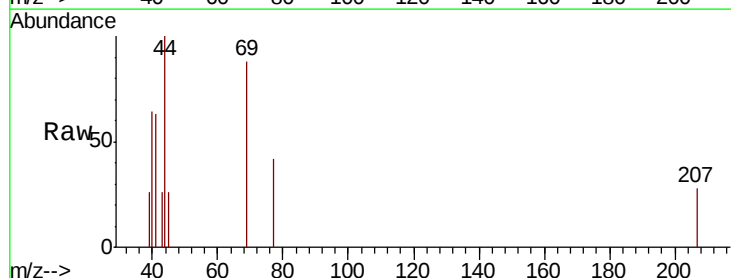
Instrument :
MSVOA_N
ClientSampled :

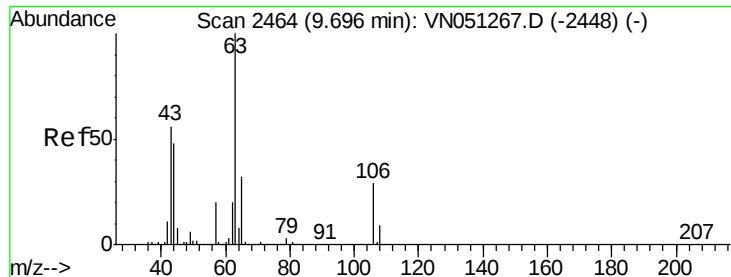
Tot Ion: 75 Resp: 1774
Ion Ratio Lower Upper
75 100
77 17.4 25.5 38.3#



#56
Ethyl methacrylate
Concen: 2.19 ug/l
RT: 10.43 min Scan# 2693
Delta R.T. 0.00 min
Lab File: VN051273.D
Acq: 17 Sep 2018 16:27

Tgt Ion: 69 Resp: 865
Ion Ratio Lower Upper
69 100
41 74.3 47.4 71.0#
39 29.7 23.7 35.5





#58

2-Chloroethyl Vinyl ether

Concen: 13.10 ug/l

RT: 9.69 min Scan# 2462

Delta R.T. -0.01 min

Lab File: VN051273.D

Acq: 17 Sep 2018 16:27

Instrument :

MSVOA_N

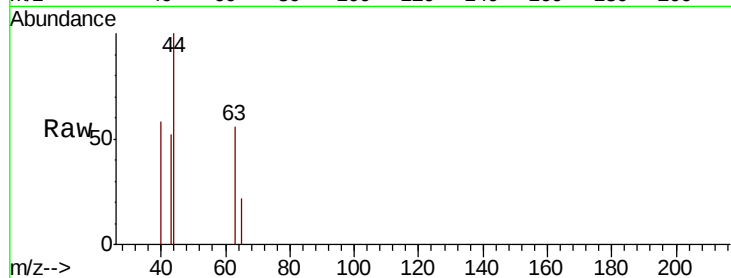
ClientSampled :

Tot Ion: 63 Resp: 423

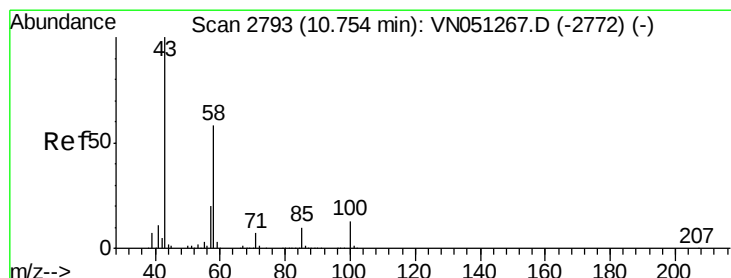
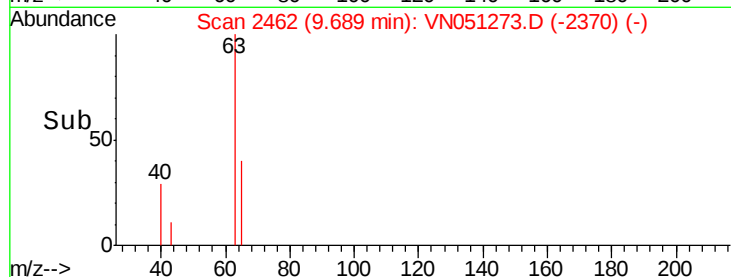
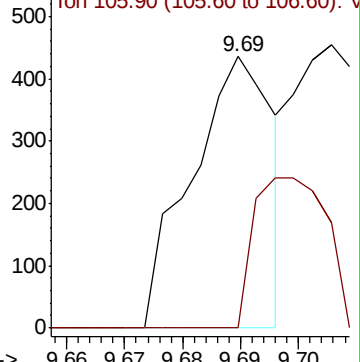
Ion Ratio Lower Upper

63 100

106 49.2 23.4 35.2#



Abundance Ion 62.90 (62.60 to 63.60): VN051267.D (-2448) (-)



#59

2-Hexanone

Concen: 1.78 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.00 min

Lab File: VN051273.D

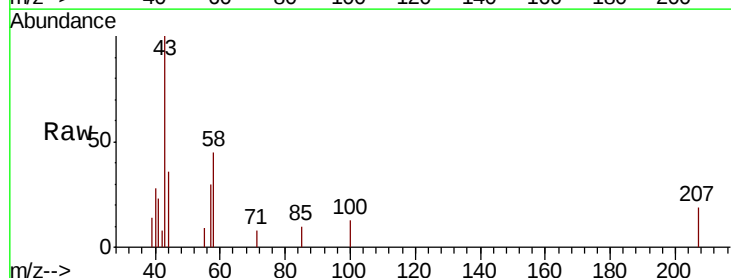
Acq: 17 Sep 2018 16:27

Tgt Ion: 43 Resp: 4370

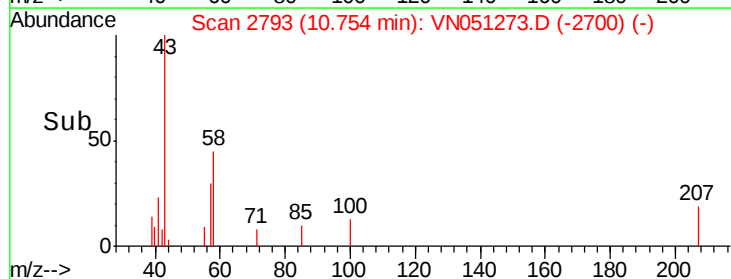
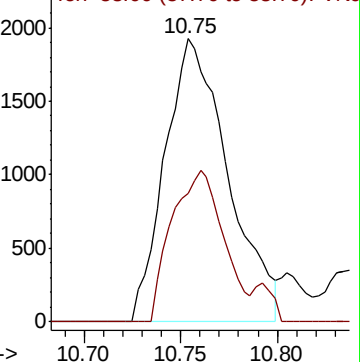
Ion Ratio Lower Upper

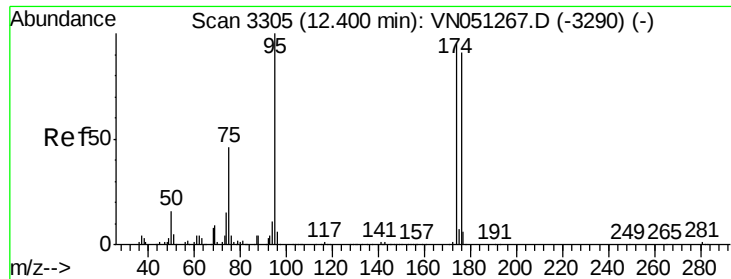
43 100

58 44.3 28.9 86.8



Abundance Ion 43.00 (42.70 to 43.70): VN051267.D (-2772) (-)

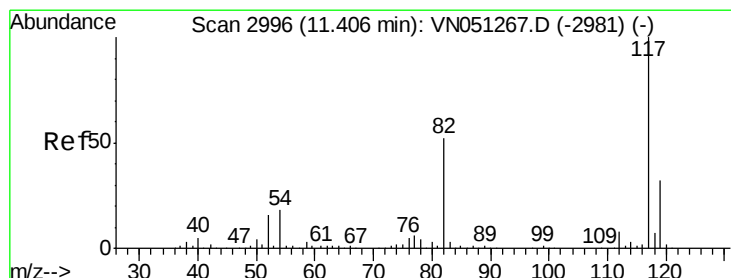
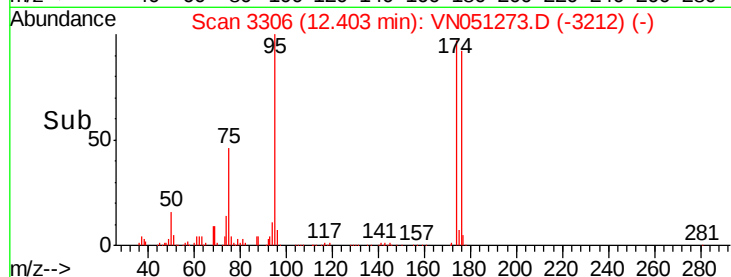
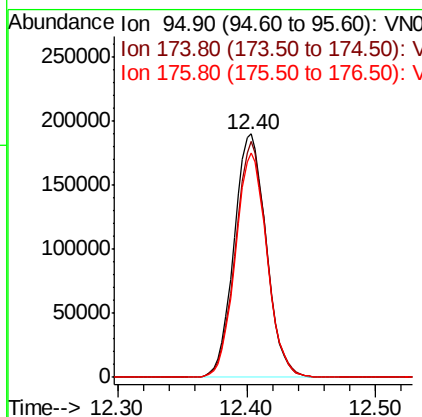
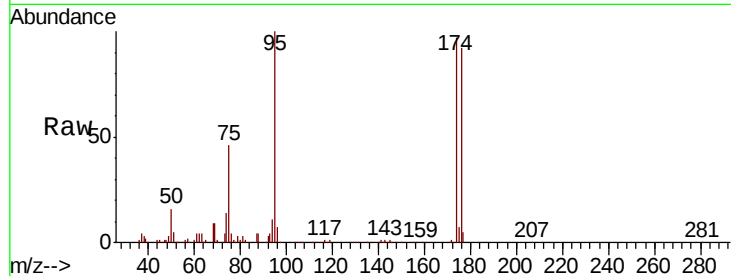




#62
4-Bromofluorobenzene
Concen: 47.69 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN051273.D
Acq: 17 Sep 2018 16:27

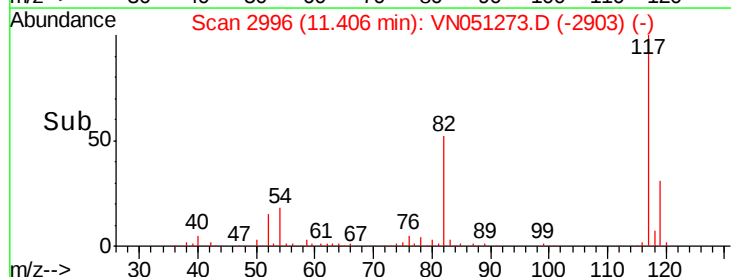
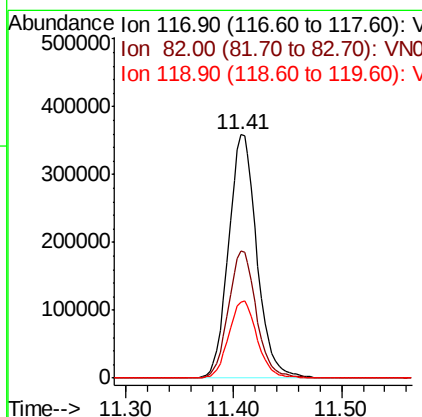
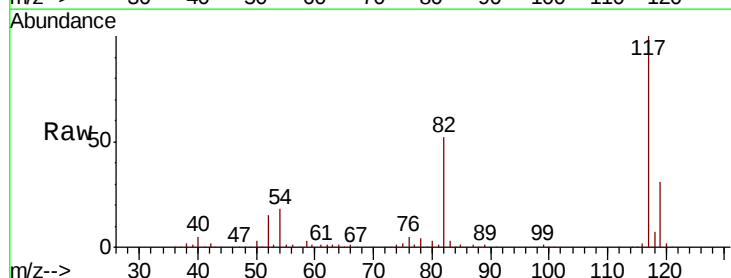
Instrument :
MSVOA_N
ClientSampled :

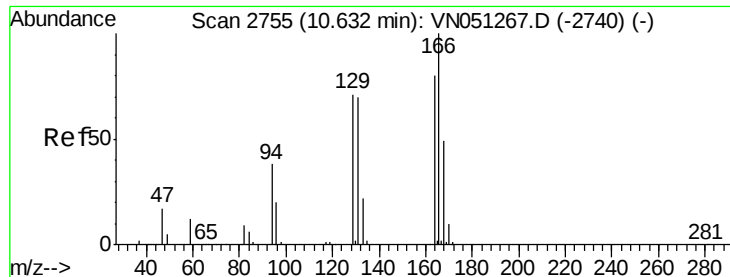
Tot Ion: 95 Resp: 327926
Ion Ratio Lower Upper
95 100
174 94.8 0.0 189.6
176 90.7 0.0 182.6



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN051273.D
Acq: 17 Sep 2018 16:27

Tgt Ion: 117 Resp: 655627
Ion Ratio Lower Upper
117 100
82 52.3 41.8 62.8
119 31.3 25.6 38.4

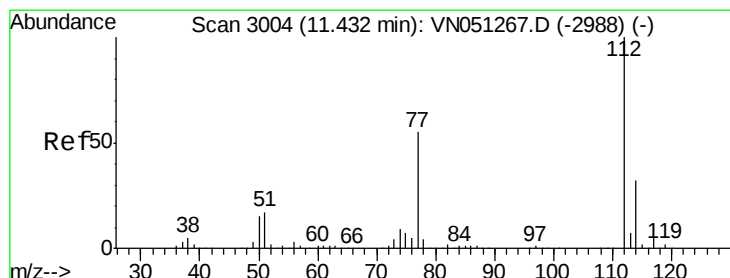
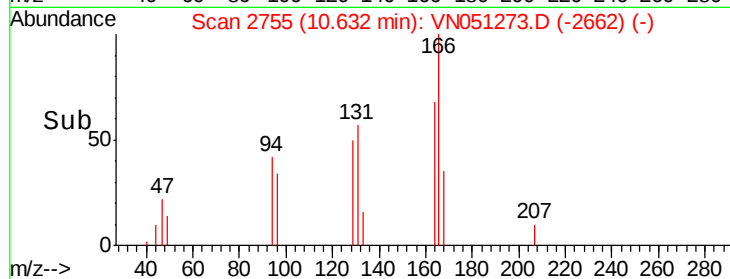
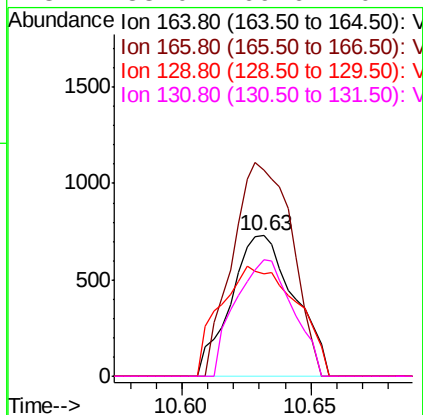
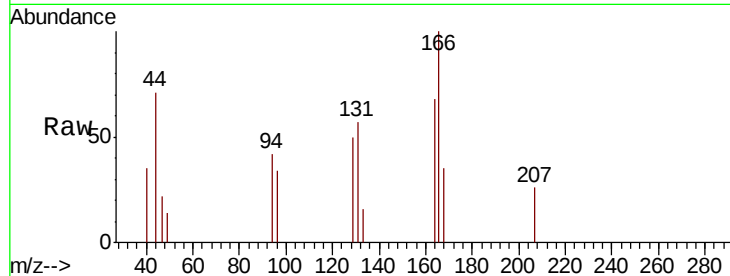




#64
Tetrachloroethene
Concen: 0.20 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN051273.D
Acq: 17 Sep 2018 16:27

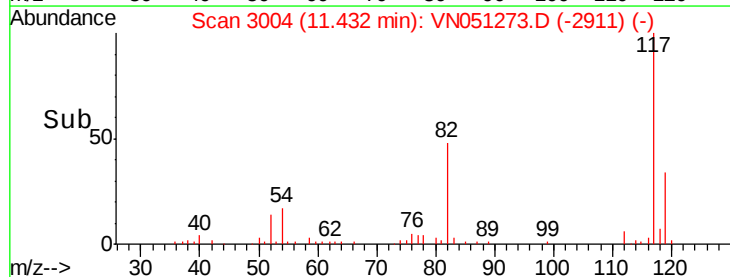
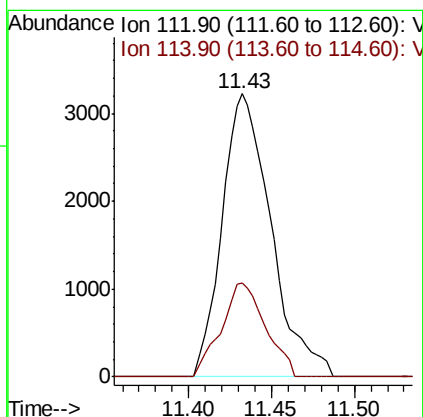
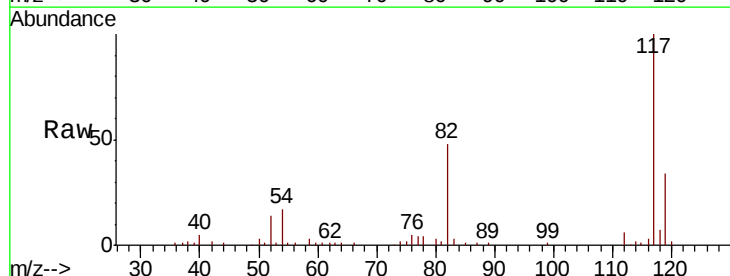
Instrument :
MSVOA_N
ClientSampleId :

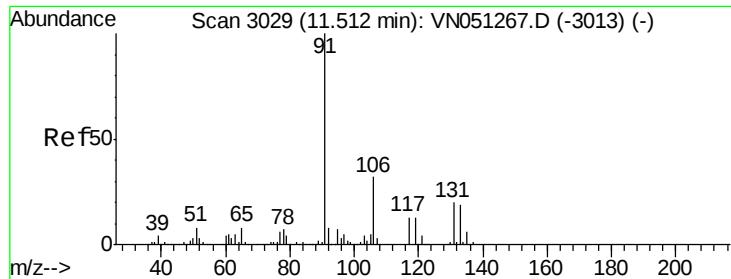
Tot Ion:164 Resp: 1256
Ion Ratio Lower Upper
164 100
166 146.3 100.0 150.0
129 72.5 70.8 106.2
131 83.0 69.6 104.4



#65
Chlorobenzene
Concen: 0.41 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. 0.00 min
Lab File: VN051273.D
Acq: 17 Sep 2018 16:27

Tgt Ion:112 Resp: 6597
Ion Ratio Lower Upper
112 100
114 33.2 25.9 38.9

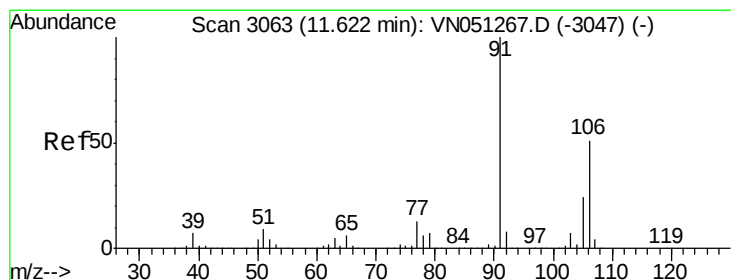
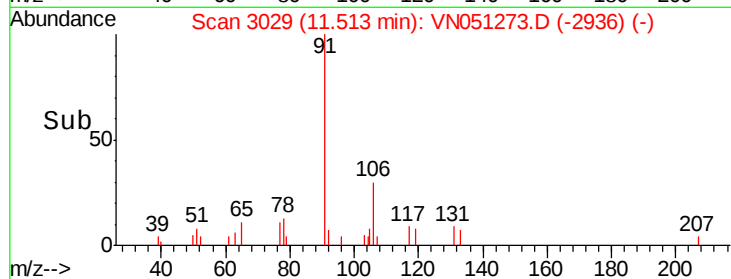
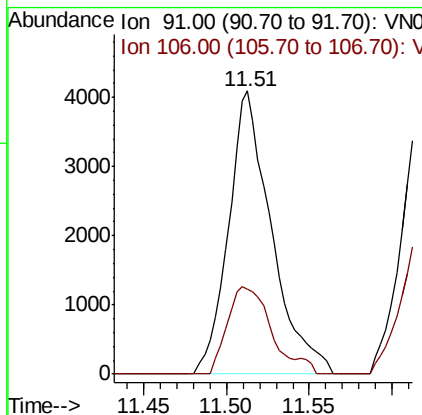
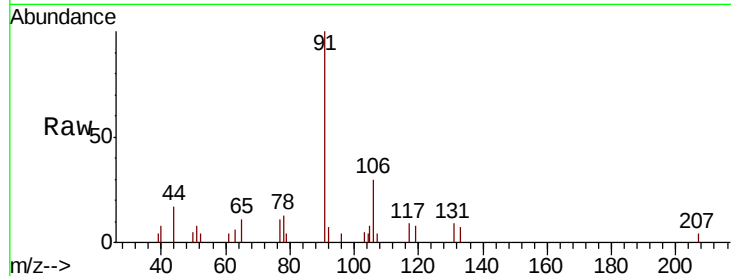




#67
Ethyl Benzene
Concen: 0.29 ug/l
RT: 11.51 min Scan# 3029
Delta R.T. 0.00 min
Lab File: VN051273.D
Acq: 17 Sep 2018 16:27

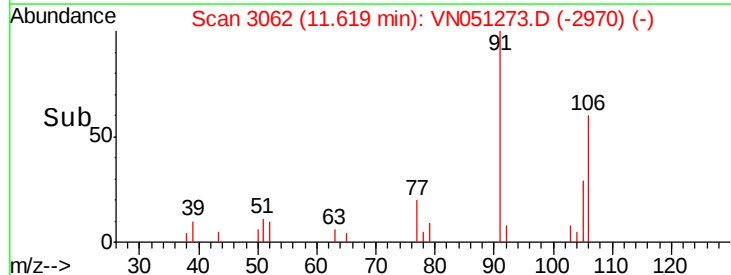
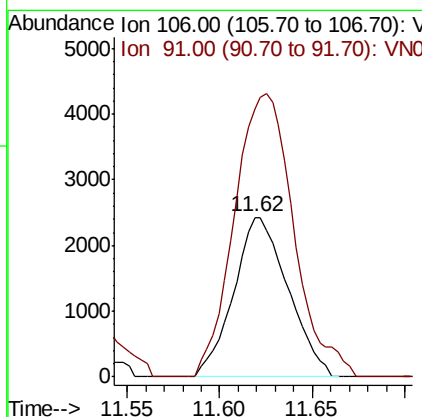
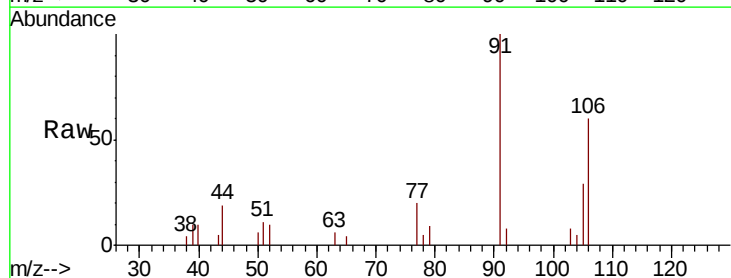
Instrument :
MSVOA_N
ClientSampleId :

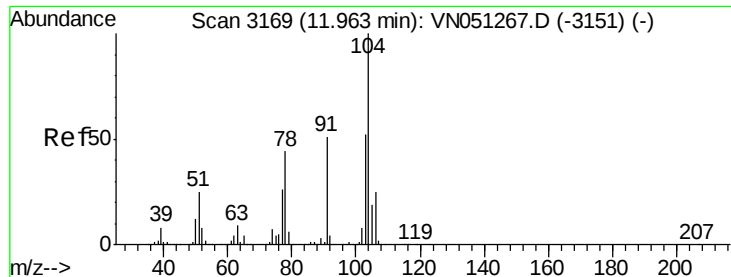
Tot Ion: 91 Resp: 7393
Ion Ratio Lower Upper
91 100
106 30.0 25.7 38.5



#68
m/p-Xylenes
Concen: 0.49 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. -0.00 min
Lab File: VN051273.D
Acq: 17 Sep 2018 16:27

Tgt Ion: 106 Resp: 4944
Ion Ratio Lower Upper
106 100
91 193.8 158.6 238.0

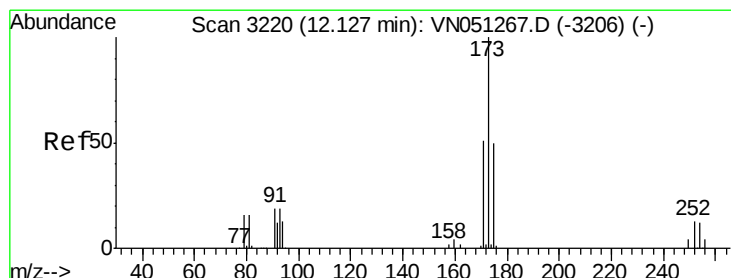
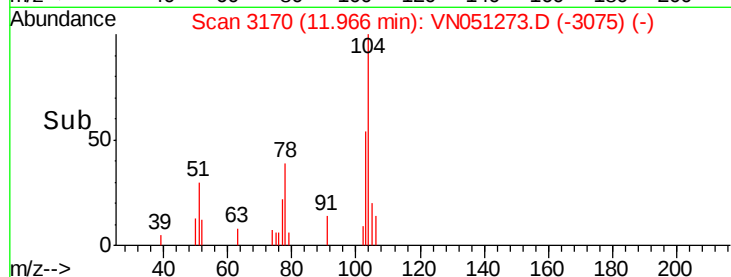
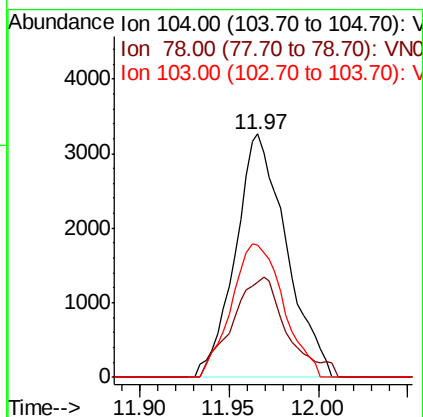
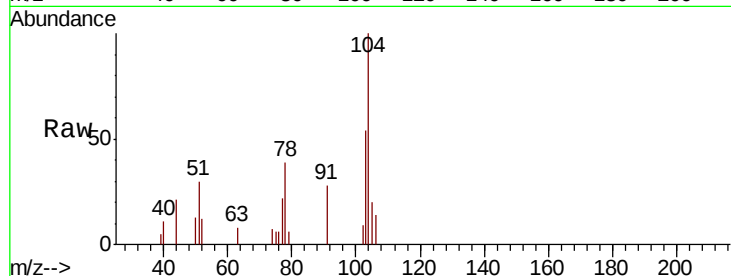




#70
Stvrene
Concen: 1.62 ug/l
RT: 11.97 min Scan# 3170
Delta R.T. 0.00 min
Lab File: VN051273.D
Acq: 17 Sep 2018 16:27

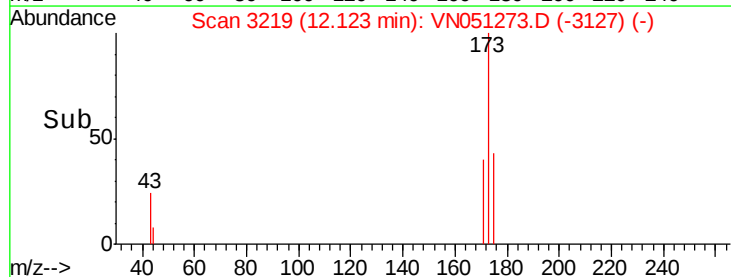
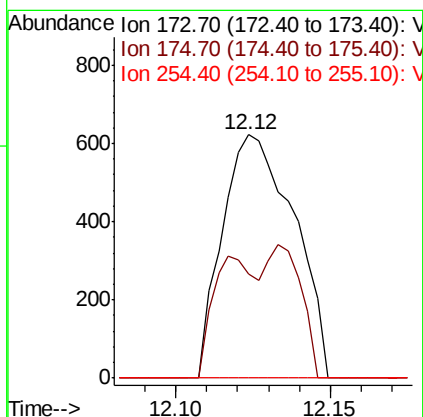
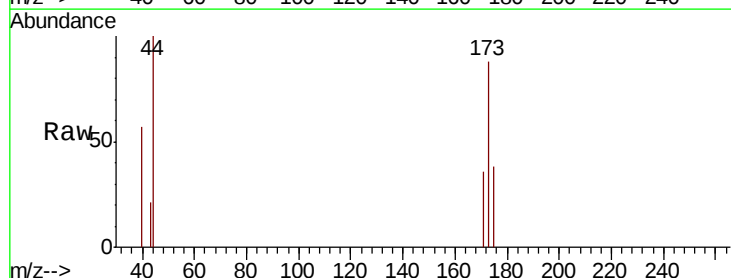
Instrument :
MSVOA_N
ClientSampleId :

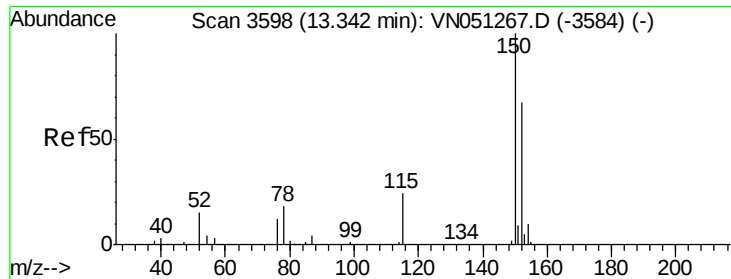
Tot Ion:104 Resp: 6497
Ion Ratio Lower Upper
104 100
78 44.3 38.1 57.1
103 56.1 44.8 67.2



#71
Bromoform
Concen: 0.25 ug/l
RT: 12.12 min Scan# 3219
Delta R.T. -0.00 min
Lab File: VN051273.D
Acq: 17 Sep 2018 16:27

Tgt Ion:173 Resp: 1003
Ion Ratio Lower Upper
173 100
175 0.0 24.4 73.2#
254 0.0 0.1 0.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN051273.D

Acq: 17 Sep 2018 16:27

Instrument :

MSVOA_N

ClientSampleId :

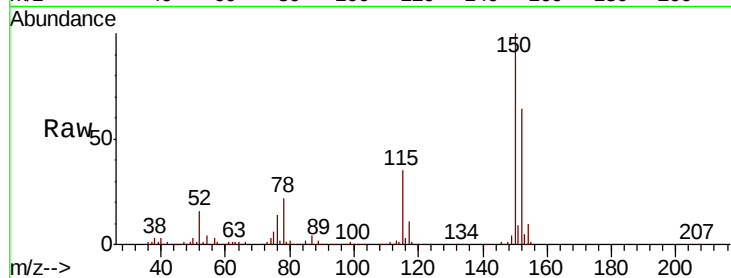
Tot Ion:152 Resp: 236328

Ion Ratio Lower Upper

152 100

115 55.4 27.1 81.2

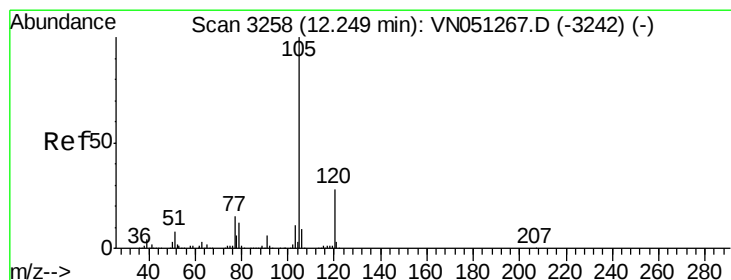
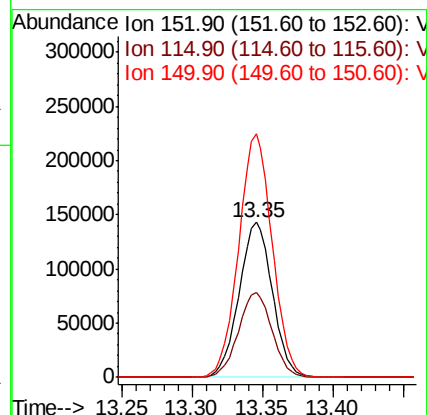
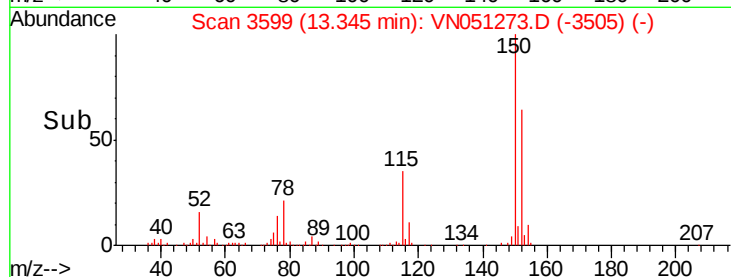
150 158.4 0.0 349.0



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



#73

Isopropylbenzene

Concen: 0.25 ug/l

RT: 12.25 min Scan# 3259

Delta R.T. 0.00 min

Lab File: VN051273.D

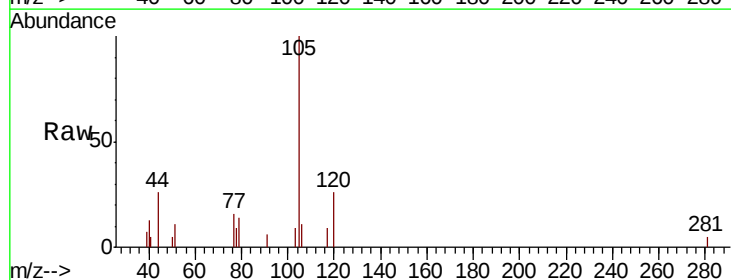
Acq: 17 Sep 2018 16:27

Tgt Ion:105 Resp: 5010

Ion Ratio Lower Upper

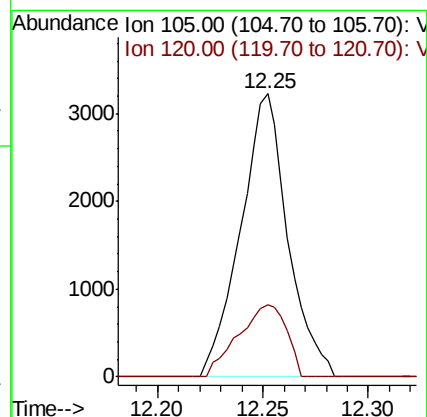
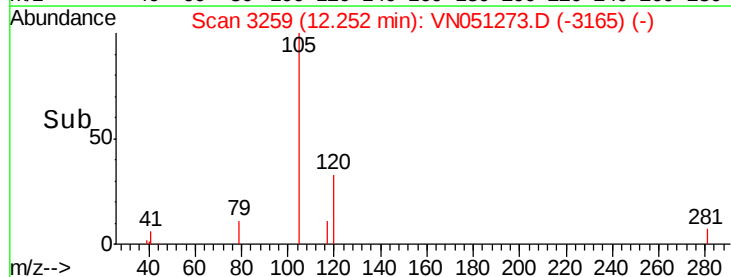
105 100

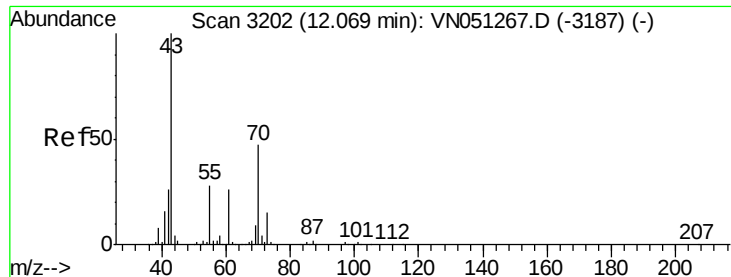
120 26.0 13.8 41.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#74

N-amvl acetate

Concen: 0.72 ug/l

RT: 12.08 min Scan# 3204

Delta R.T. 0.01 min

Lab File: VN051273.D

Acq: 17 Sep 2018 16:27

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 43 Resp: 2965

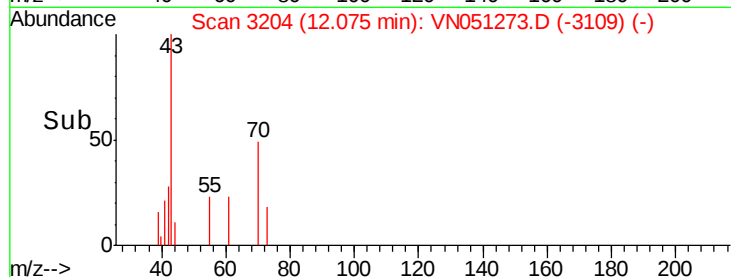
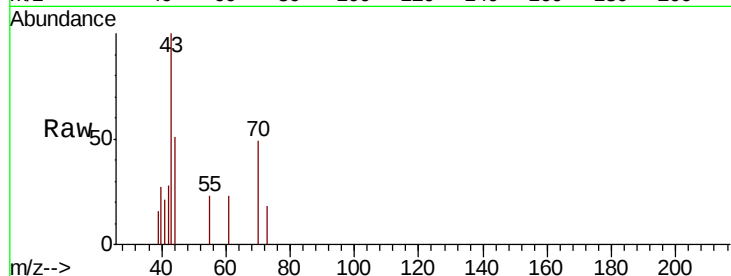
Ion Ratio Lower Upper

43 100

70 36.2 37.8 56.6#

55 20.8 22.6 34.0#

61 16.9 20.9 31.3#

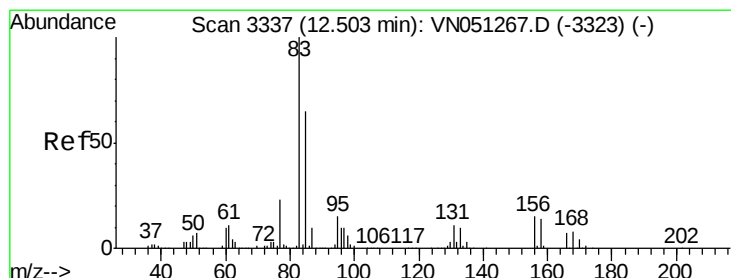
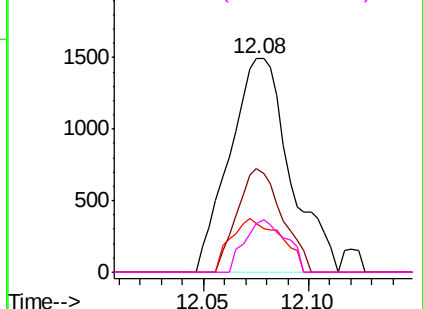


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN051273.D

Acq: 17 Sep 2018 16:27

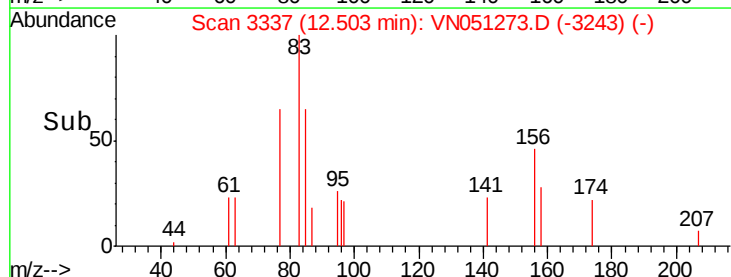
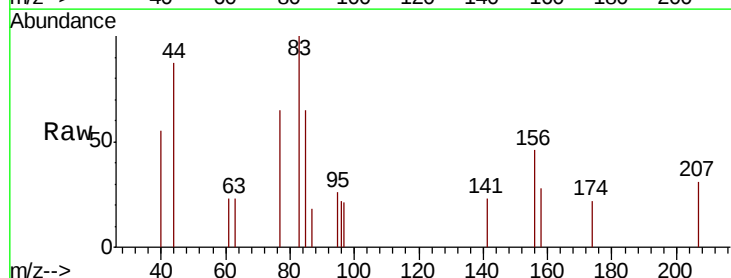
Tgt Ion: 83 Resp: 1505

Ion Ratio Lower Upper

83 100

131 0.0 5.5 16.7#

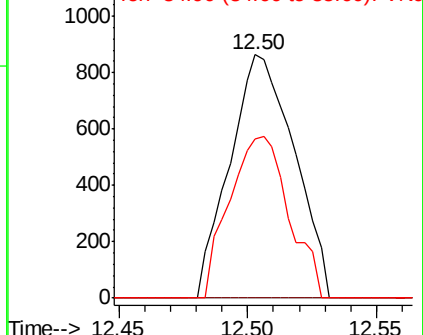
85 61.0 32.3 96.9

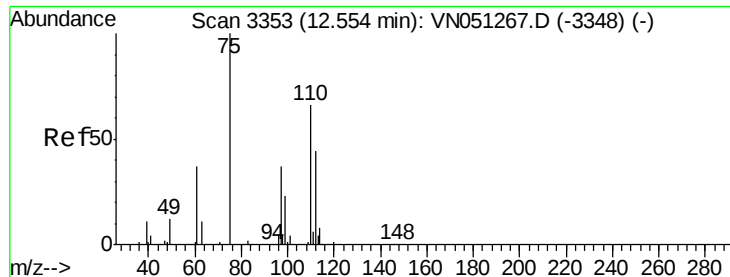


Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VN0





#76

1,2,3-Trichloropropane

Concen: 46.10 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN051273.D

Acq: 17 Sep 2018 16:27

Instrument :

MSVOA_N

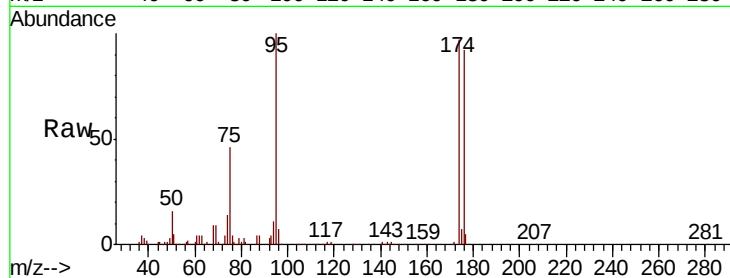
ClientSampleId :

Tot Ion: 75 Resp: 149639

Ion Ratio Lower Upper

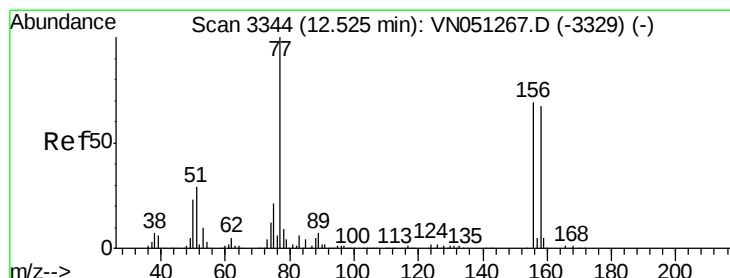
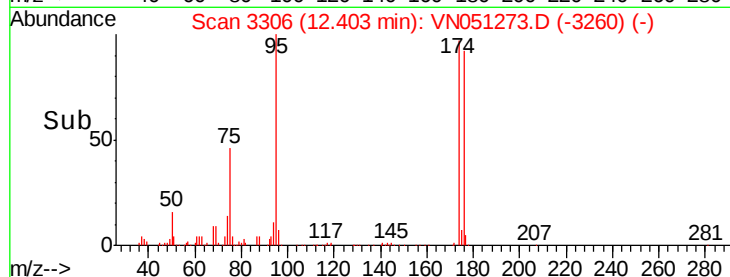
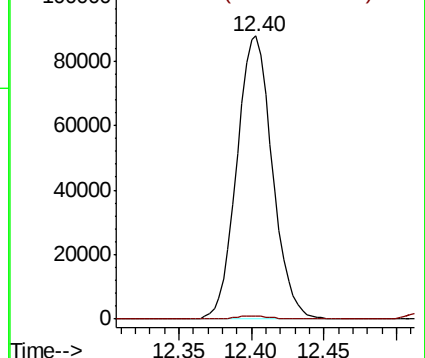
75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#77

Bromobenzene

Concen: 0.30 ug/l

RT: 12.53 min Scan# 3345

Delta R.T. 0.00 min

Lab File: VN051273.D

Acq: 17 Sep 2018 16:27

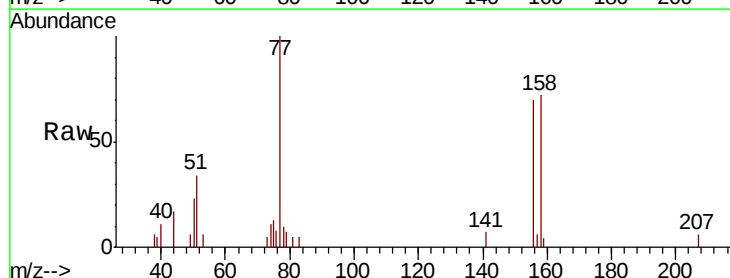
Tgt Ion: 156 Resp: 5961

Ion Ratio Lower Upper

156 100

77 130.3 83.7 251.1

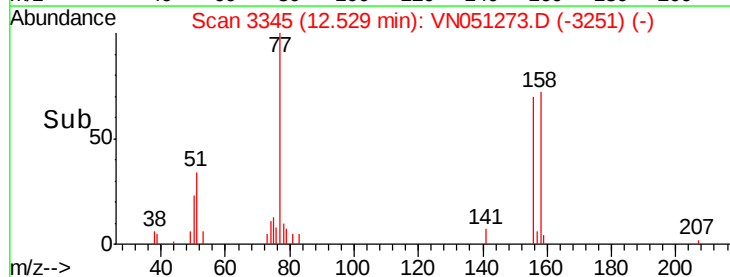
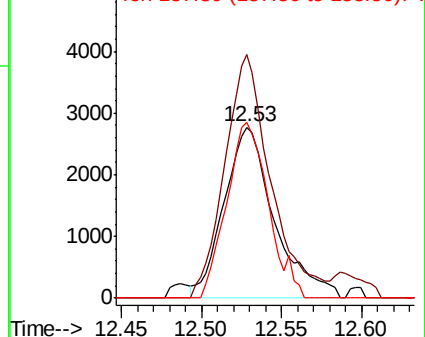
158 84.7 49.0 147.2

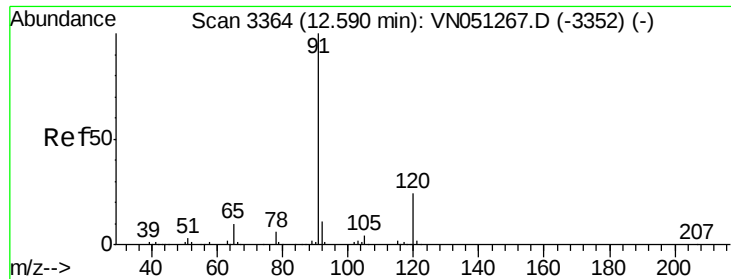


Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V

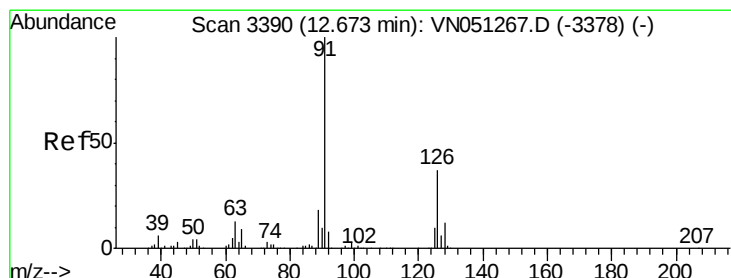
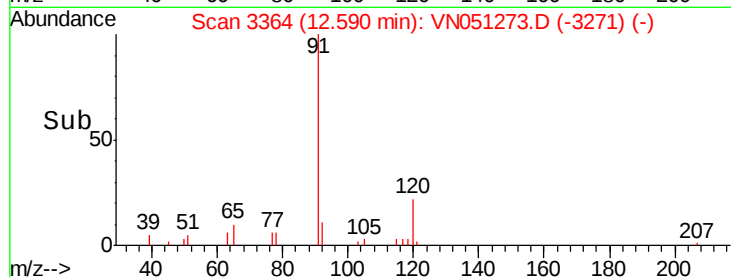
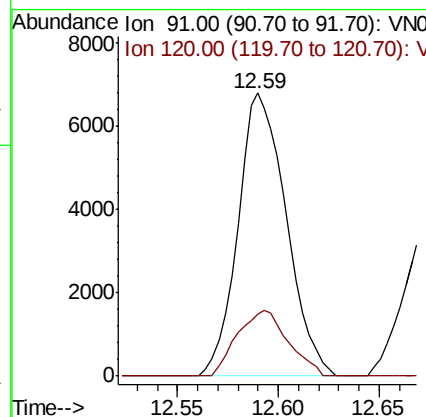
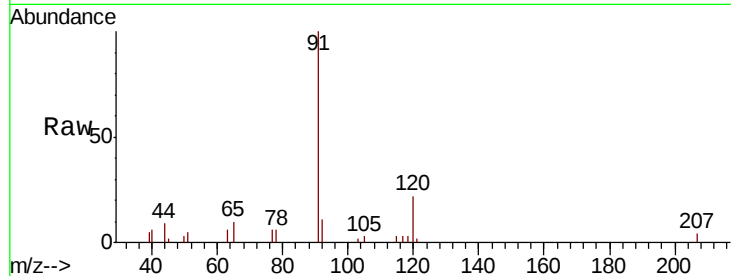




#78
n-propylbenzene
Concen: 0.53 ug/l
RT: 12.59 min Scan# 3364
Delta R.T. 0.00 min
Lab File: VN051273.D
Acq: 17 Sep 2018 16:27

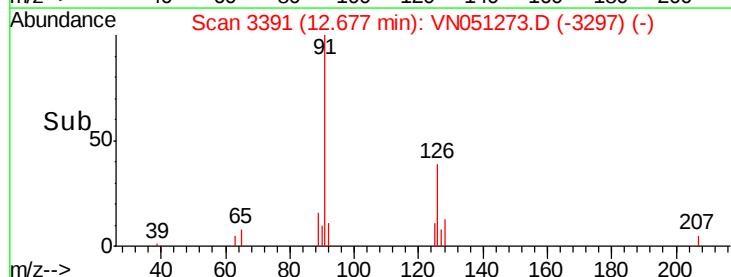
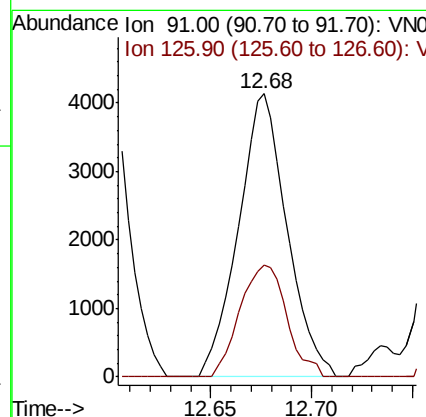
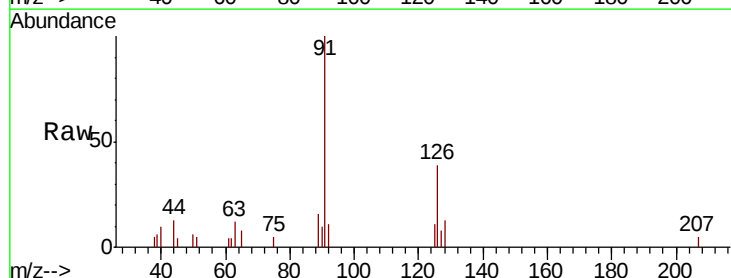
Instrument :
MSVOA_N
ClientSampled :

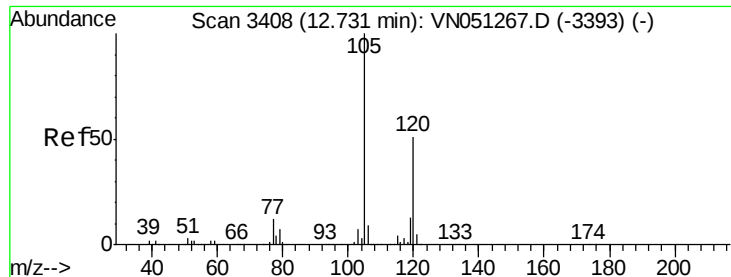
Tot Ion: 91 Resp: 11363
Ion Ratio Lower Upper
91 100
120 24.5 12.1 36.3



#79
2-Chlorotoluene
Concen: 0.51 ug/l
RT: 12.68 min Scan# 3391
Delta R.T. 0.00 min
Lab File: VN051273.D
Acq: 17 Sep 2018 16:27

Tgt Ion: 91 Resp: 6959
Ion Ratio Lower Upper
91 100
126 38.2 18.2 54.6





#80

1,3,5-Trimethylbenzene

Concen: 0.33 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN051273.D

Acq: 17 Sep 2018 16:27

Instrument :

MSVOA_N

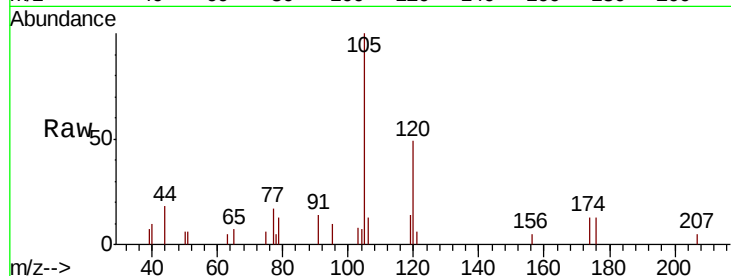
ClientSampleId :

Tot Ion:105 Resp: 5335

Ion Ratio Lower Upper

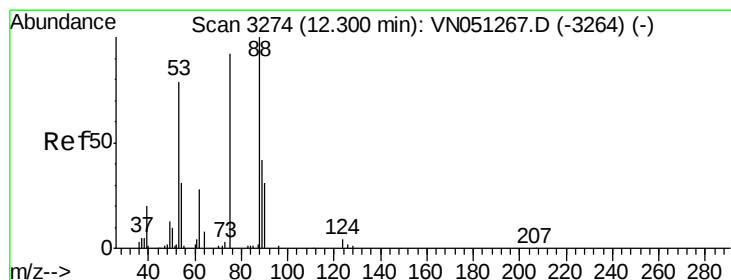
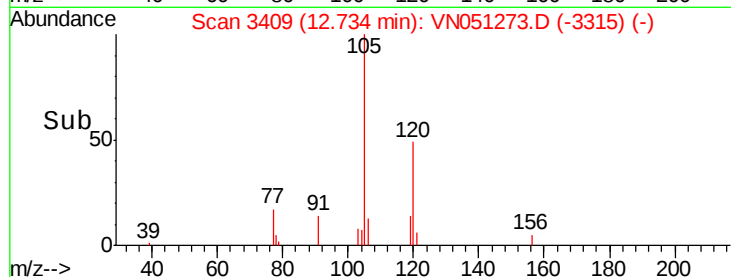
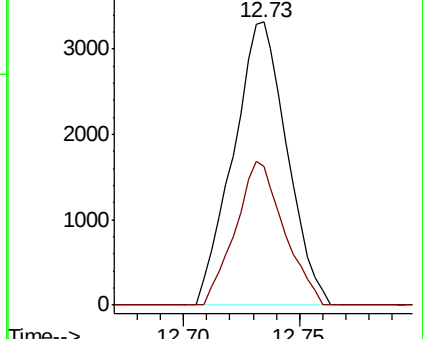
105 100

120 45.7 25.3 75.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 140.63 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN051273.D

Acq: 17 Sep 2018 16:27

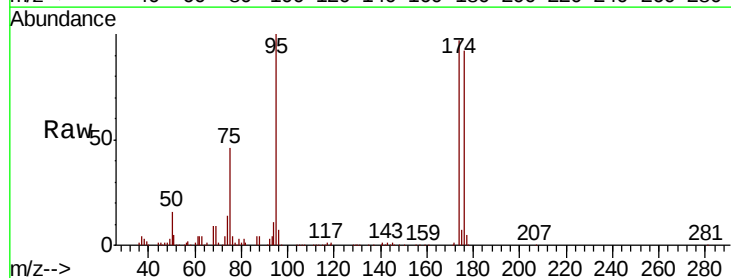
Tgt Ion: 75 Resp: 149639

Ion Ratio Lower Upper

75 100

53 0.2 67.7 101.5#

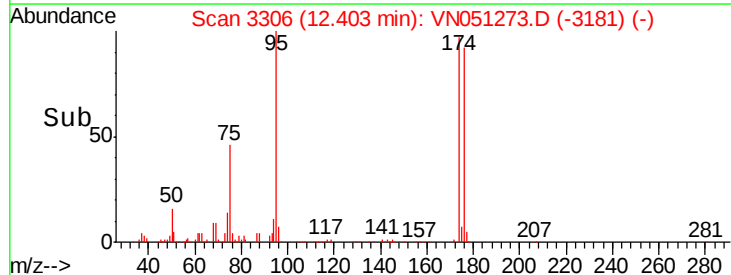
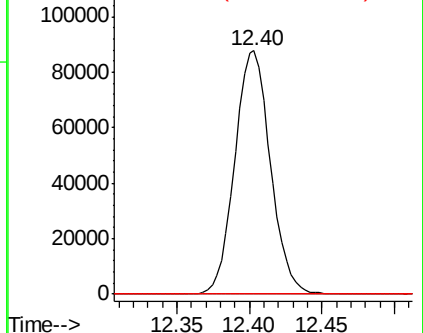
89 0.0 36.9 55.3#

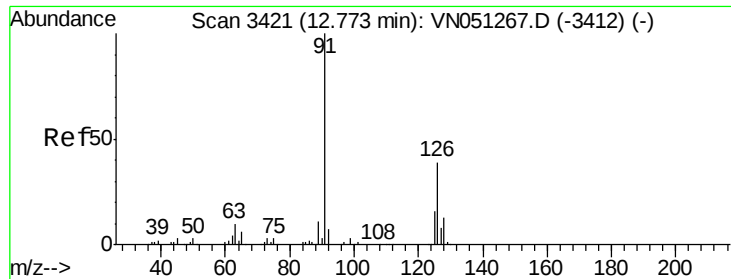


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

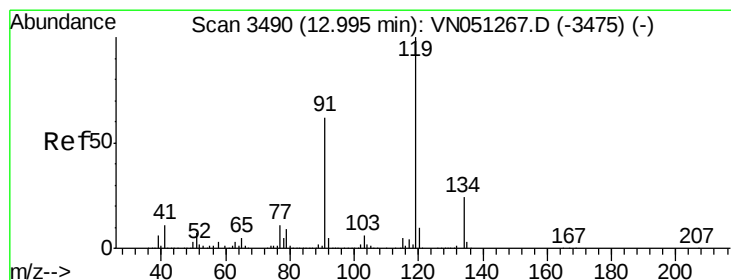
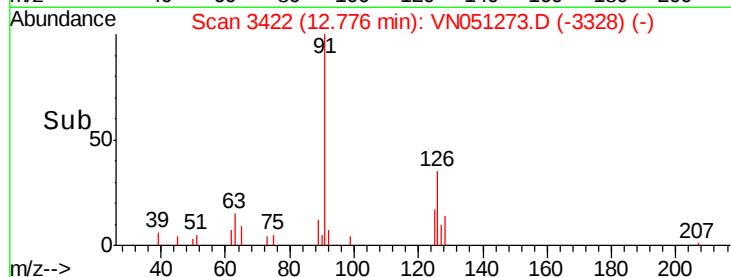
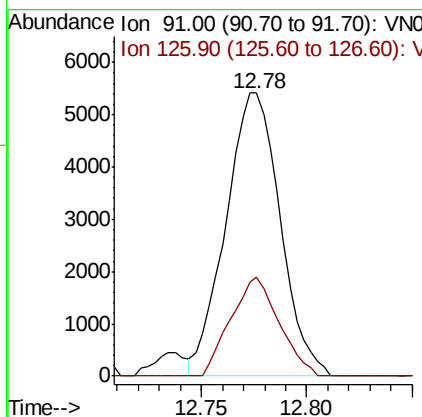
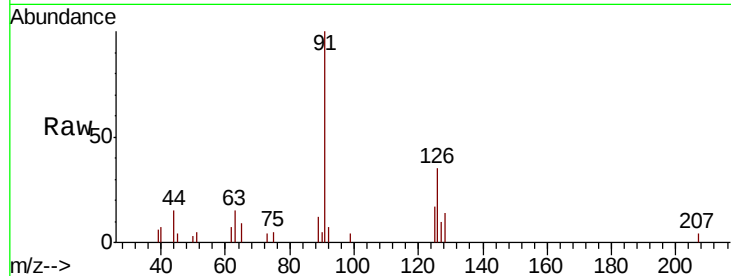




#82
4-Chlorotoluene
Concen: 0.75 ug/l
RT: 12.78 min Scan# 3422
Delta R.T. 0.00 min
Lab File: VN051273.D
Acq: 17 Sep 2018 16:27

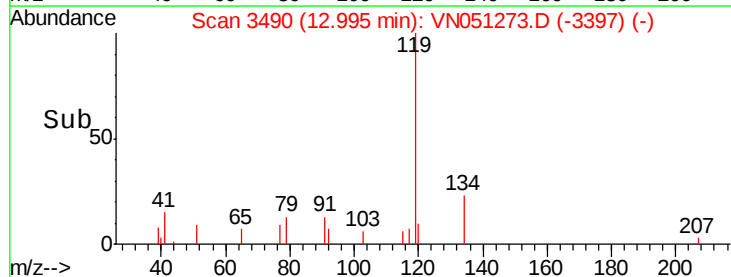
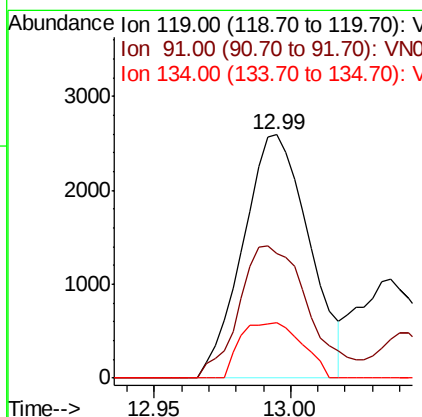
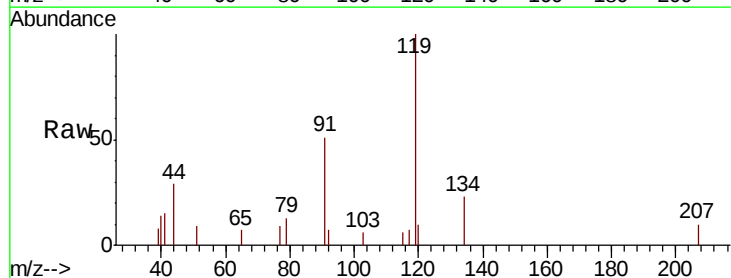
Instrument :
MSVOA_N
ClientSampleId :

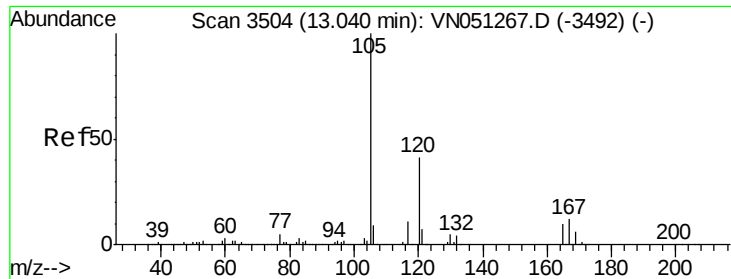
Tot Ion: 91 Resp: 9696
Ion Ratio Lower Upper
91 100
126 31.0 17.9 53.8



#83
tert-Butylbenzene
Concen: 0.31 ug/l
RT: 12.99 min Scan# 3490
Delta R.T. 0.00 min
Lab File: VN051273.D
Acq: 17 Sep 2018 16:27

Tgt Ion: 119 Resp: 4366
Ion Ratio Lower Upper
119 100
91 56.9 30.8 92.4
134 21.4 12.4 37.0





#84

1,2,4-Trimethylbenzene

Concen: 0.45 ug/l

RT: 13.04 min Scan# 3504

Delta R.T. 0.00 min

Lab File: VN051273.D

Acq: 17 Sep 2018 16:27

Instrument :

MSVOA_N

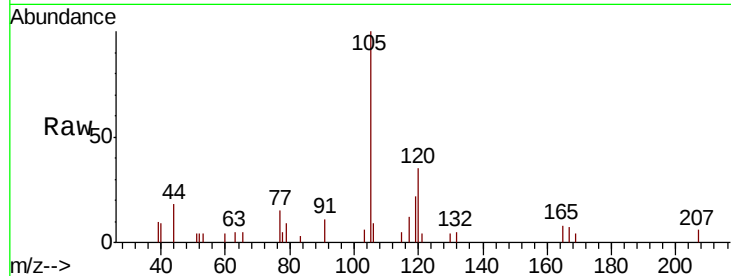
ClientSampleId :

Tot Ion:105 Resp: 6915

Ion Ratio Lower Upper

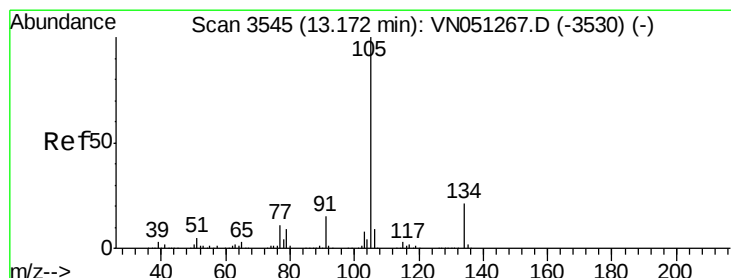
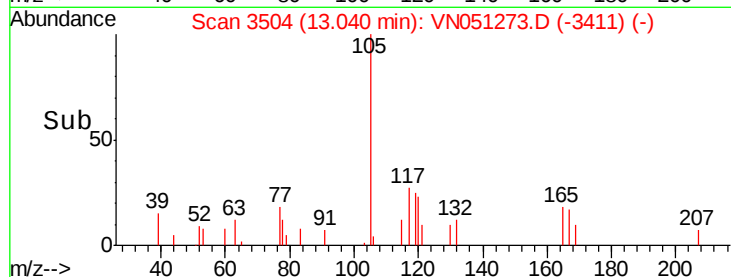
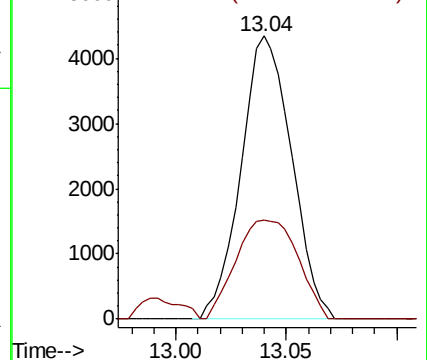
105 100

120 42.8 23.5 70.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#85

sec-Butylbenzene

Concen: 0.41 ug/l

RT: 13.17 min Scan# 3546

Delta R.T. 0.00 min

Lab File: VN051273.D

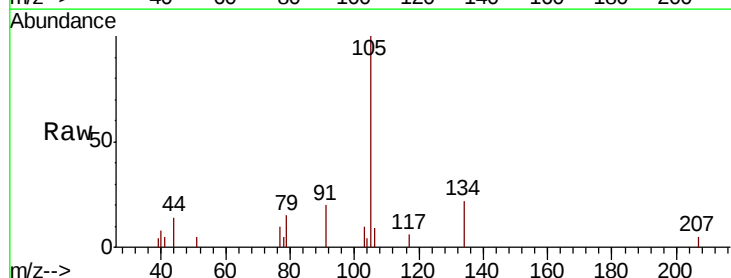
Acq: 17 Sep 2018 16:27

Tgt Ion:105 Resp: 7280

Ion Ratio Lower Upper

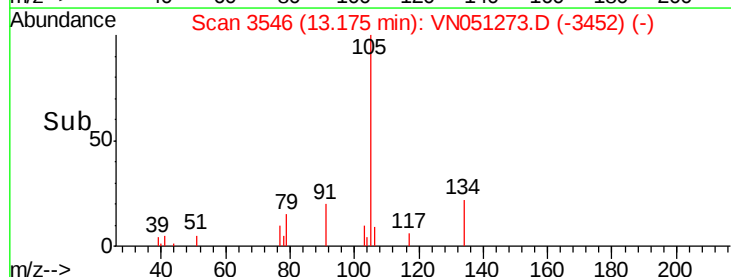
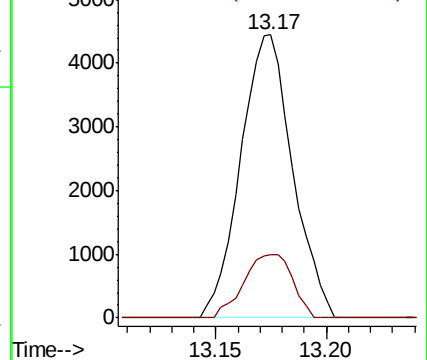
105 100

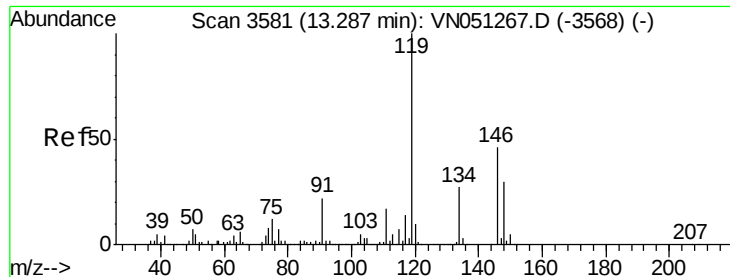
134 21.0 10.5 31.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

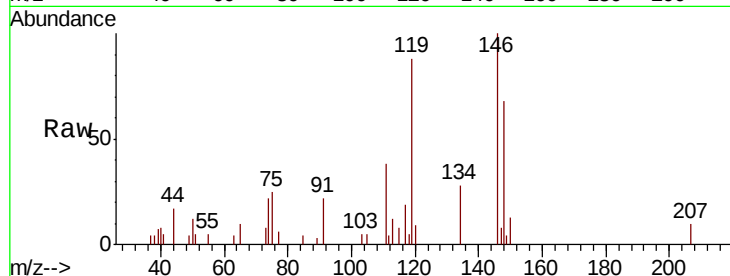




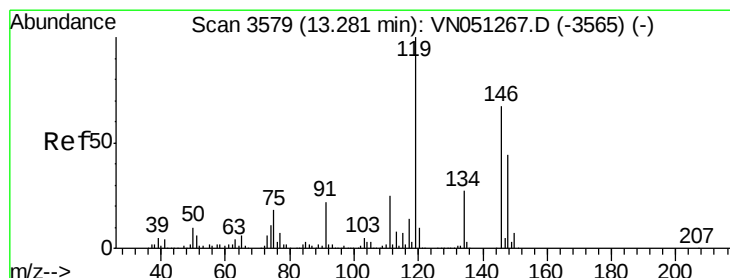
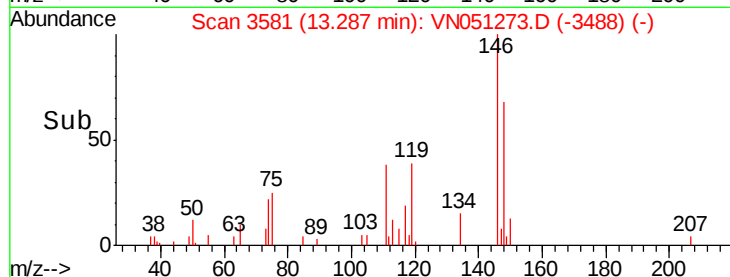
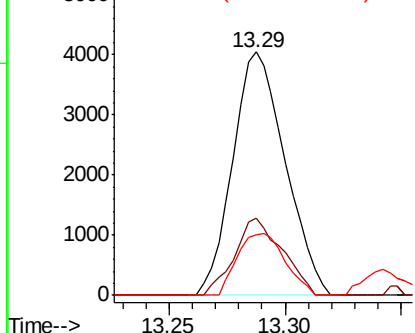
#86
p-Isopropyltoluene
Concen: 0.42 ug/l
RT: 13.29 min Scan# 3581
Delta R.T. 0.00 min
Lab File: VN051273.D
Acq: 17 Sep 2018 16:27

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:119 Resp: 6344
Ion Ratio Lower Upper
119 100
134 28.8 13.5 40.5
91 23.2 11.1 33.1

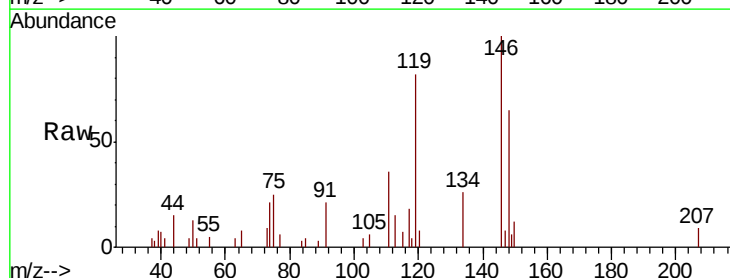


Abundance Ion 119.00 (118.70 to 119.70): V
Ion 134.00 (133.70 to 134.70): V
Ion 91.00 (90.70 to 91.70): V

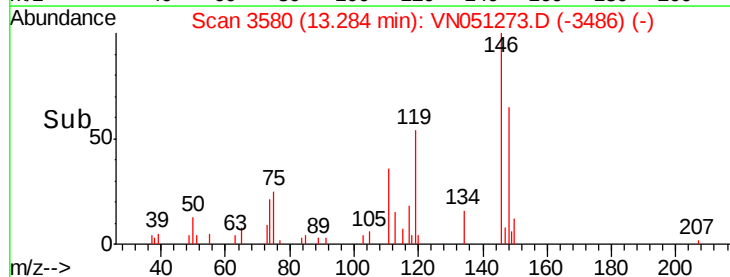
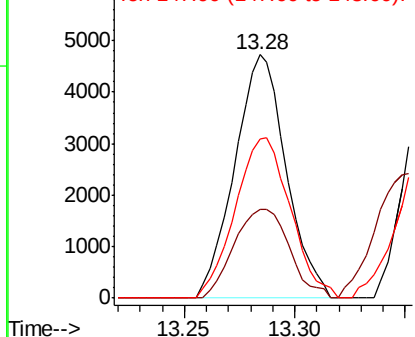


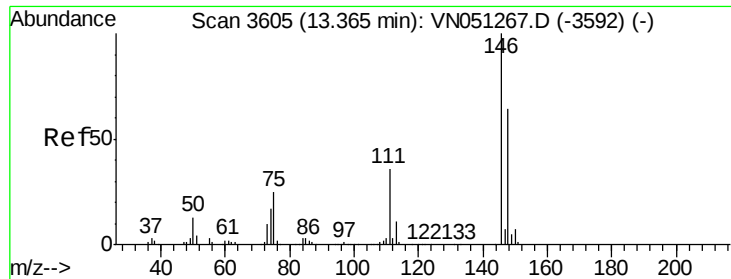
#87
1,3-Dichlorobenzene
Concen: 0.87 ug/l
RT: 13.28 min Scan# 3580
Delta R.T. 0.00 min
Lab File: VN051273.D
Acq: 17 Sep 2018 16:27

Tgt Ion:146 Resp: 7637
Ion Ratio Lower Upper
146 100
111 39.2 18.7 56.1
148 70.7 32.2 96.6



Abundance Ion 145.90 (145.60 to 146.60): V
Ion 110.90 (110.60 to 111.60): V
Ion 147.90 (147.60 to 148.60): V

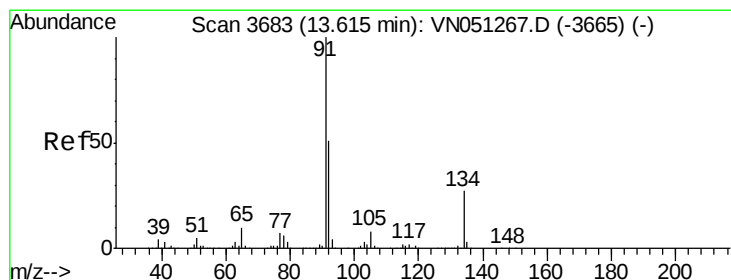
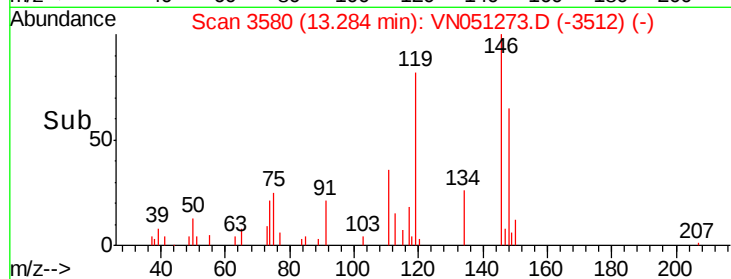
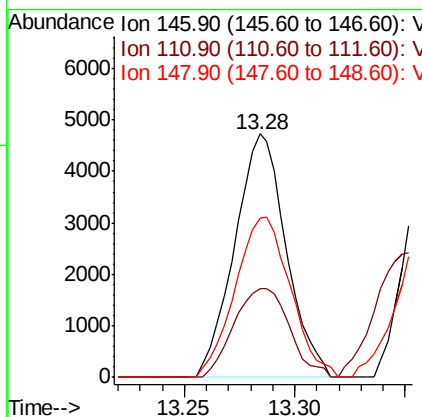
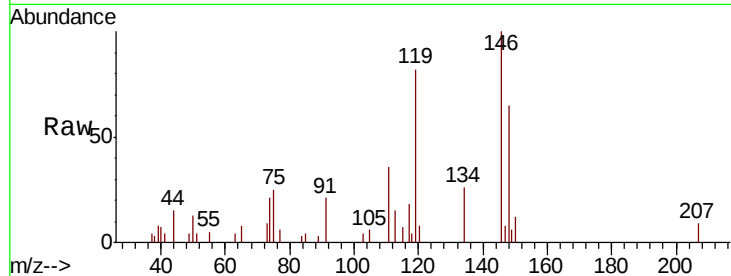




#88
1,4-Dichlorobenzene
Concen: 1.32 ug/l
RT: 13.28 min Scan# 3580
Delta R.T. -0.08 min
Lab File: VN051273.D
Acq: 17 Sep 2018 16:27

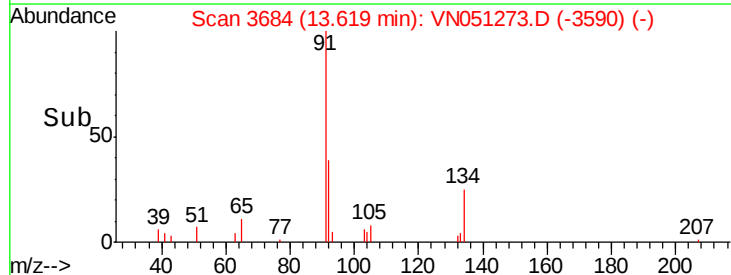
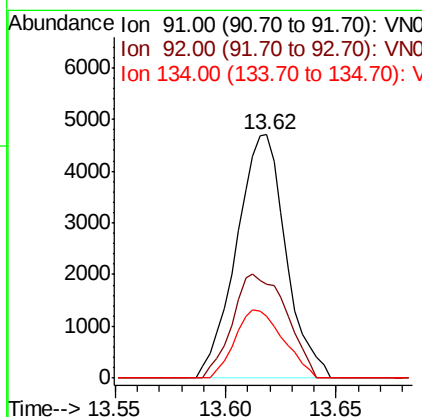
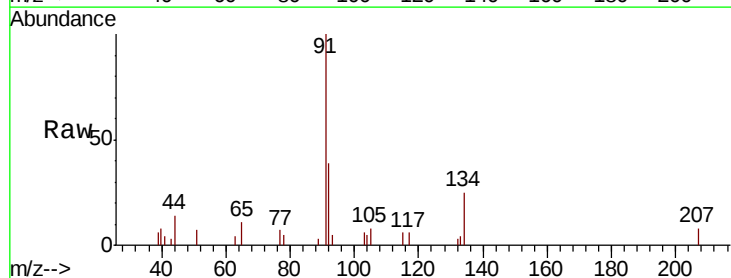
Instrument :
MSVOA_N
ClientSampleId :

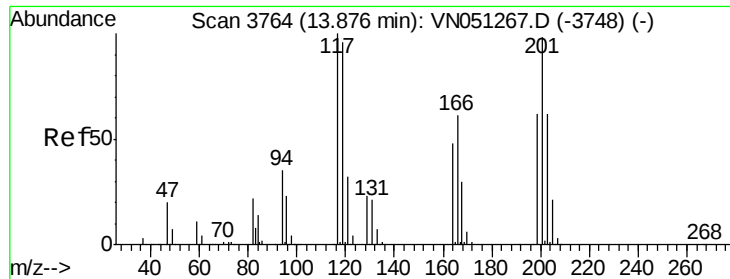
Tot Ion:146 Resp: 7637
Ion Ratio Lower Upper
146 100
111 39.2 18.2 54.6
148 70.7 31.9 95.7



#89
n-Butylbenzene
Concen: 2.59 ug/l
RT: 13.62 min Scan# 3684
Delta R.T. 0.00 min
Lab File: VN051273.D
Acq: 17 Sep 2018 16:27

Tgt Ion: 91 Resp: 7336
Ion Ratio Lower Upper
91 100
92 46.6 25.8 77.4
134 27.3 13.7 41.0





#90

Hexachloroethane

Concen: Below Cal

RT: 13.88 min Scan# 3765

Delta R.T. 0.00 min

Lab File: VN051273.D

Acq: 17 Sep 2018 16:27

Instrument :

MSVOA_N

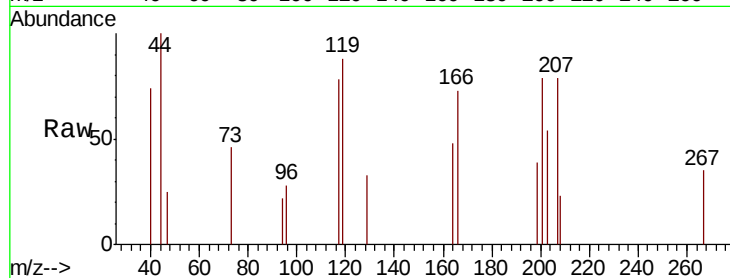
ClientSampled :

Tot Ion:117 Resp: 902

Ion Ratio Lower Upper

117 100

201 103.1 48.4 145.3



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

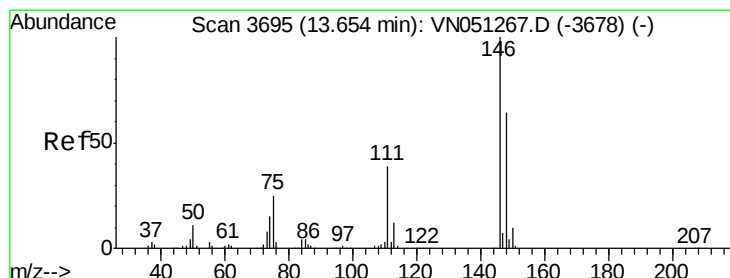
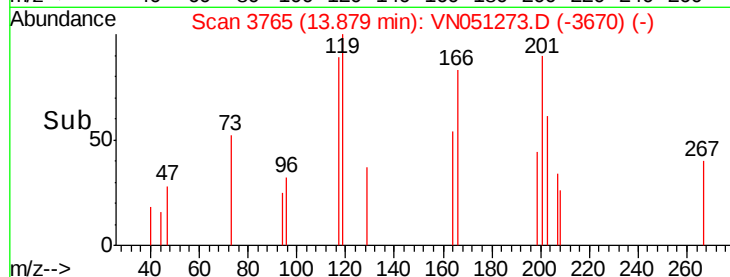
600

400

200

0

Time-->



#91

1,2-Dichlorobenzene

Concen: 0.52 ug/l

RT: 13.65 min Scan# 3695

Delta R.T. 0.00 min

Lab File: VN051273.D

Acq: 17 Sep 2018 16:27

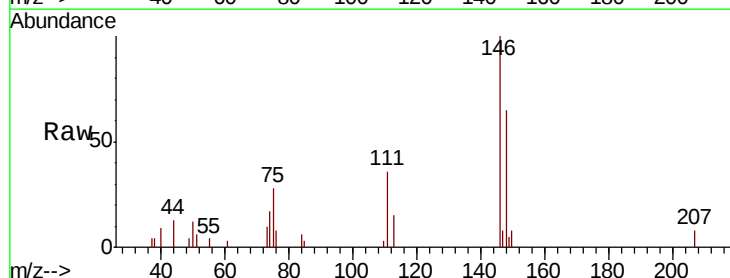
Tgt Ion:146 Resp: 8120

Ion Ratio Lower Upper

146 100

111 38.7 19.6 58.7

148 65.2 31.9 95.9



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

6000

5000

4000

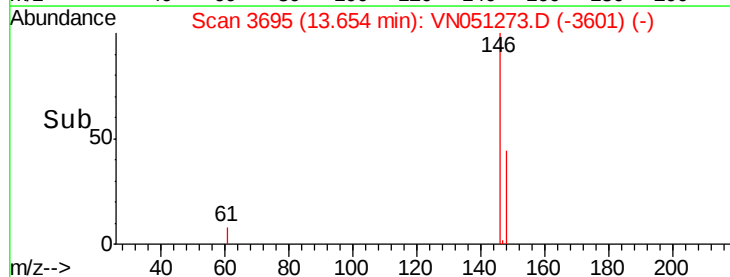
3000

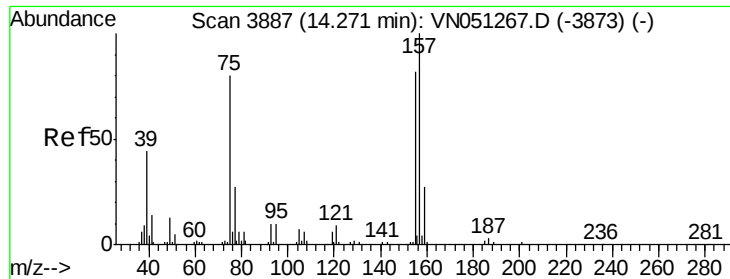
2000

1000

0

Time-->





#92

1,2-Dibromo-3-Chloropropane

Concen: 1.02 ug/l

RT: 14.27 min Scan# 3888

Delta R.T. 0.00 min

Lab File: VN051273.D

Acq: 17 Sep 2018 16:27

Instrument :

MSVOA_N

ClientSampled :

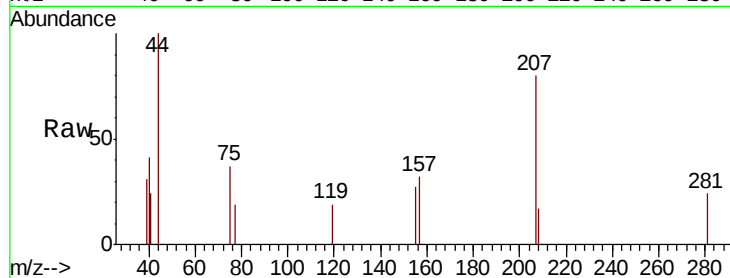
Tot Ion: 75 Resp: 503

Ion Ratio Lower Upper

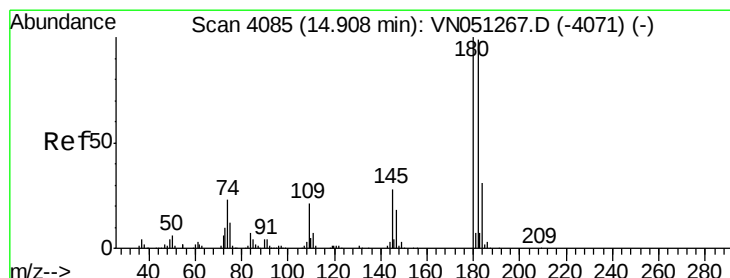
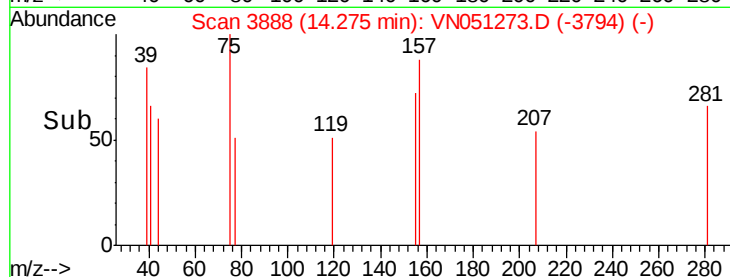
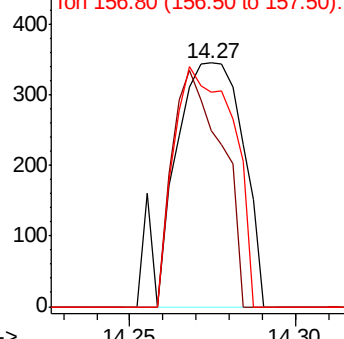
75 100

155 68.6 50.2 150.7

157 83.9 62.9 188.7



Abundance Ion 74.90 (74.60 to 75.60): VN051267.D (-3873) (-)



#93

1,2,4-Trichlorobenzene

Concen: 6.16 ug/l

RT: 14.91 min Scan# 4086

Delta R.T. 0.00 min

Lab File: VN051273.D

Acq: 17 Sep 2018 16:27

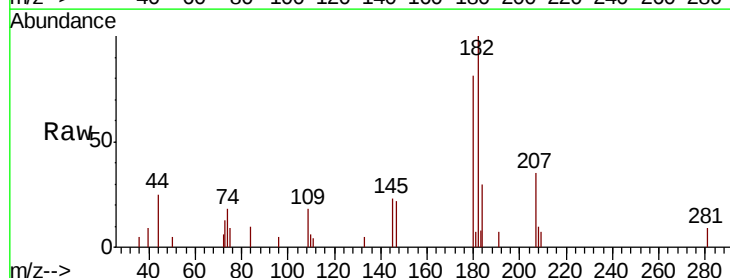
Tgt Ion: 180 Resp: 5009

Ion Ratio Lower Upper

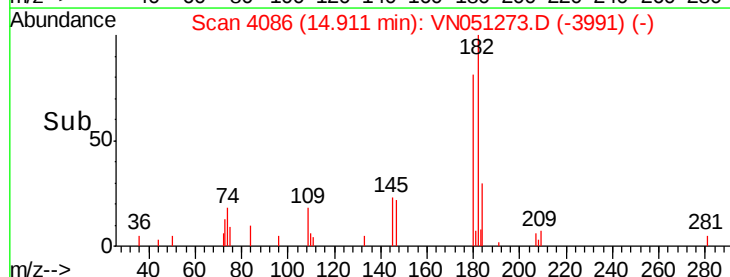
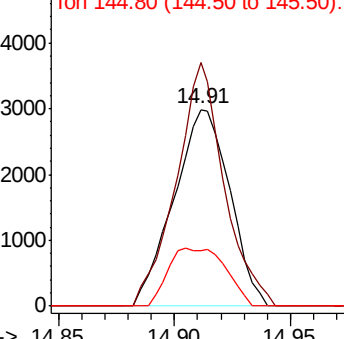
180 100

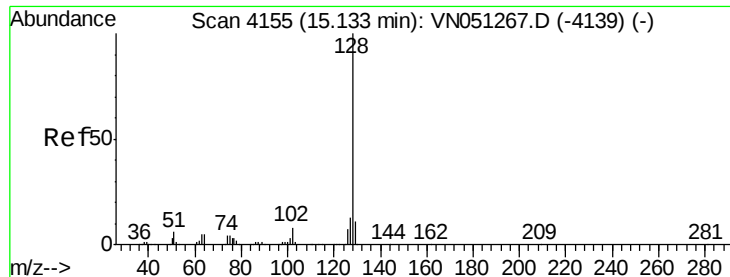
182 106.4 48.5 145.6

145 29.9 14.0 41.9



Abundance Ion 179.80 (179.50 to 180.50): VN051267.D (-4071) (-)





#95

Naphthalene

Concen: 7.41 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN051273.D

Acq: 17 Sep 2018 16:27

Instrument :

MSVOA_N

ClientSampleId :

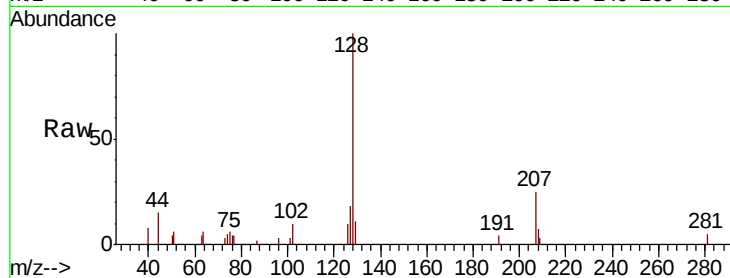
Tot Ion:128 Resp: 12453

Ion Ratio Lower Upper

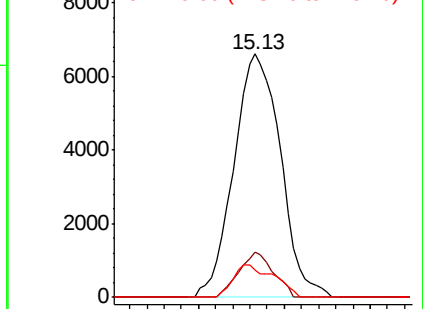
128 100

127 13.7 10.7 16.1

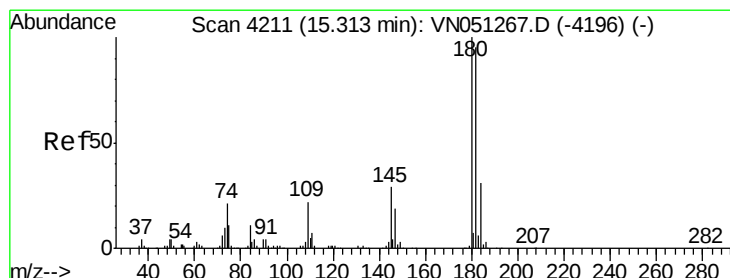
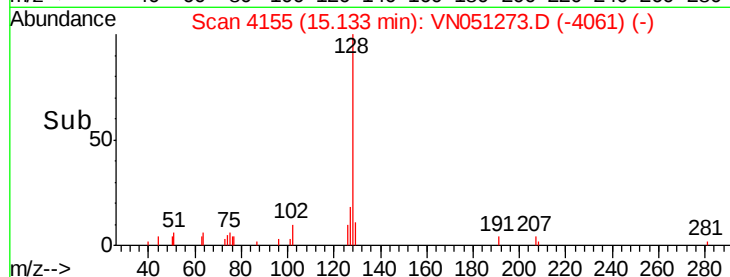
129 11.6 8.9 13.3



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



Time-->



#96

1,2,3-Trichlorobenzene

Concen: 5.32 ug/l

RT: 15.32 min Scan# 4212

Delta R.T. 0.00 min

Lab File: VN051273.D

Acq: 17 Sep 2018 16:27

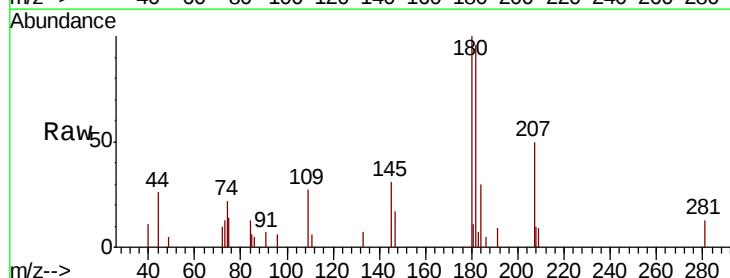
Tgt Ion:180 Resp: 5965

Ion Ratio Lower Upper

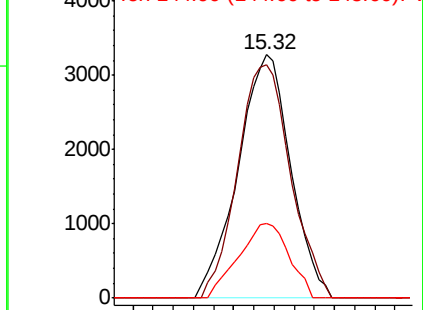
180 100

182 96.6 47.5 142.6

145 29.3 14.8 44.4



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



Time-->

