

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN012420\
 Data File : VN059853.D
 Acq On : 24 Jan 2020 18:14
 Operator : JC/MD
 Sample : PB126303ZHE#02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jan 25 00:30:17 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N011320W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jan 18 03:09:32 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	201474	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	304182	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	270631	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	108597	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.00	65	106832	47.75	ug/l	0.00
Spiked Amount			Recovery	=	95.50%	
35) Dibromofluoromethane	7.57	113	91782	50.60	ug/l	0.00
Spiked Amount			Recovery	=	101.20%	
50) Toluene-d8	10.08	98	361749	51.47	ug/l	0.00
Spiked Amount			Recovery	=	102.94%	
62) 4-Bromofluorobenzene	12.40	95	117894	46.53	ug/l	0.00
Spiked Amount			Recovery	=	93.06%	

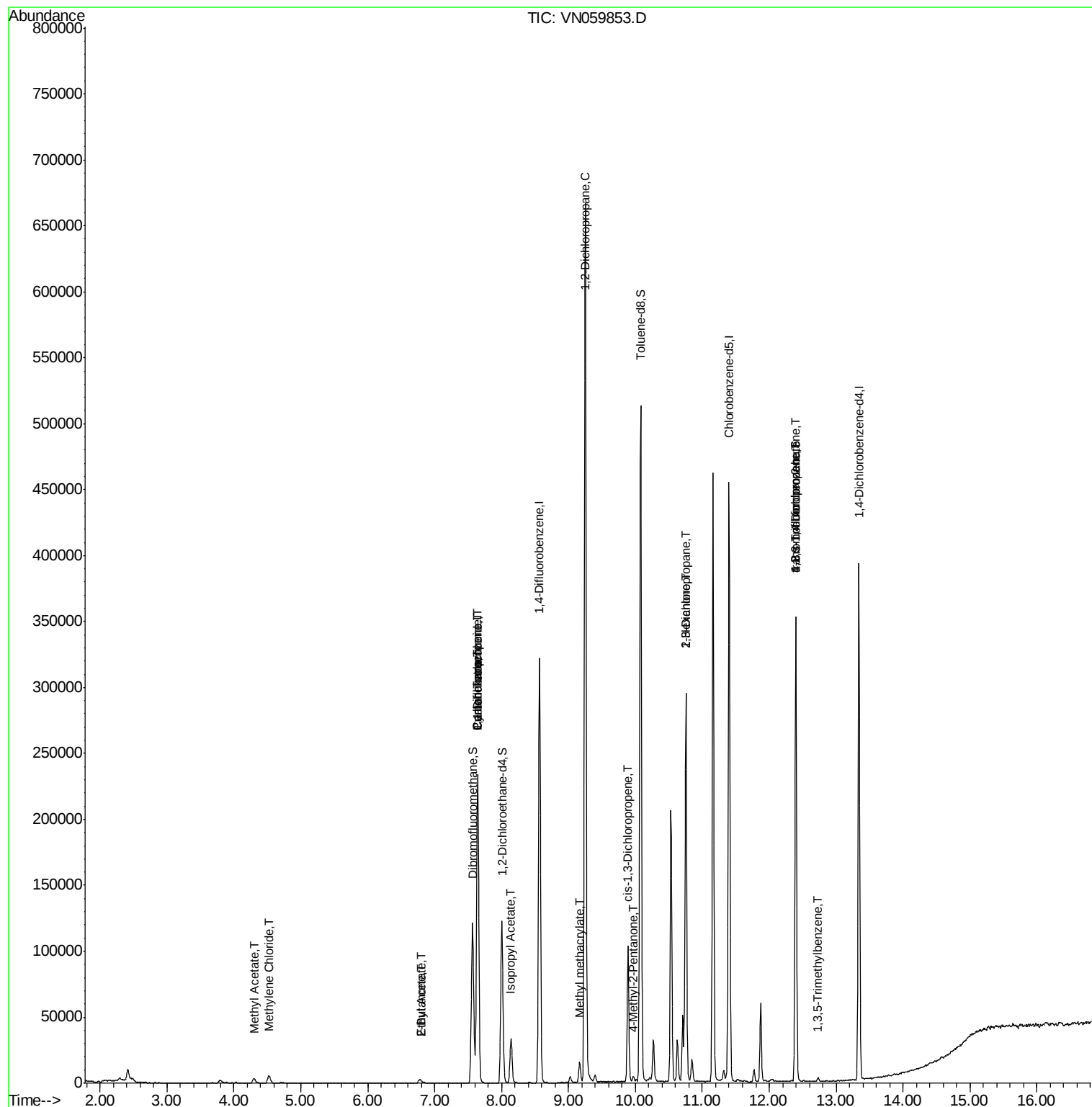
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.79	43	4235	Below Cal		96
18) Methyl Acetate	4.30	43	7241	2.771	ug/l	98
20) Methylene Chloride	4.52	84	4575	0.992	ug/l	88
25) 2-Butanone	6.81	43	795	0.627	ug/l #	50
31) Cyclohexane	7.64	56	3755	1.134	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	13835	5.223	ug/l #	50
37) Ethyl Acetate	6.81	43	795	0.320	ug/l #	69
38) Carbon Tetrachloride	7.64	117	18523	6.428	ug/l #	16
43) Isopropyl Acetate	8.14	43	40318	9.435	ug/l	92
45) 1,2-Dichloropropane	9.25	63	752	0.385	ug/l #	44
48) Methyl methacrylate	9.16	41	2379	1.245	ug/l #	13
51) 4-Methyl-2-Pentanone	9.97	43	2682	1.086	ug/l	89
54) cis-1,3-Dichloropropene	9.89	75	19036	5.831	ug/l #	59
57) 1,3-Dichloropropane	10.75	76	2997	0.955	ug/l #	42
59) 2-Hexanone	10.75	43	41116	22.593	ug/l #	55
76) 1,2,3-Trichloropropane	12.40	75	59755	32.696	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	2504	0.374	ug/l	95
81) trans-1,4-Dichloro-2-buten	12.40	75	59755	70.215	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	14.27	75	60	Below Cal	#	6

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

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N011320W.M
Quant Title : SW846 8260
QLast Update : Sat Jan 18 03:09:32 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.00 min

Lab File: VN059853.D

Acq: 24 Jan 2020 18:14

Instrument :

MSVOA_N

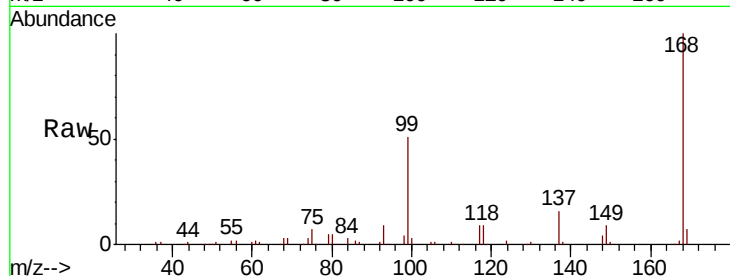
ClientSampleId :

Tot Ion:168 Resp: 201474

Ion Ratio Lower Upper

168 100

99 50.9 48.2 72.4

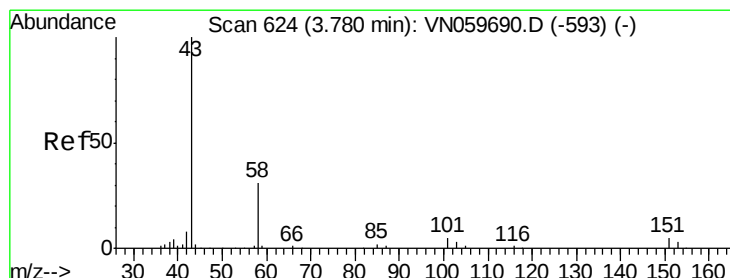
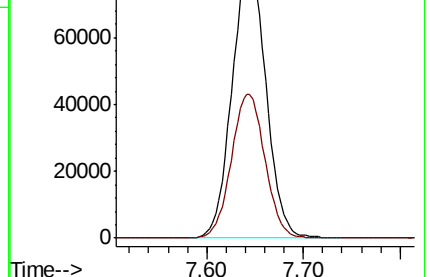
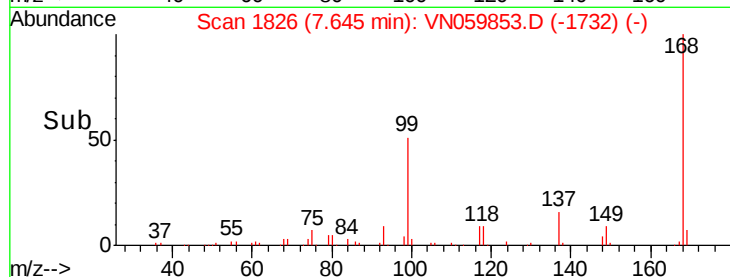


Abundance Ion 167.90 (167.60 to 168.60): VN059690.D (-1807) (-)

Ion 98.90 (98.60 to 99.60): VN059690.D (-1807) (-)

7.64

Time-->



#16

Acetone

Concen: Below Cal

RT: 3.79 min Scan# 626

Delta R.T. 0.01 min

Lab File: VN059853.D

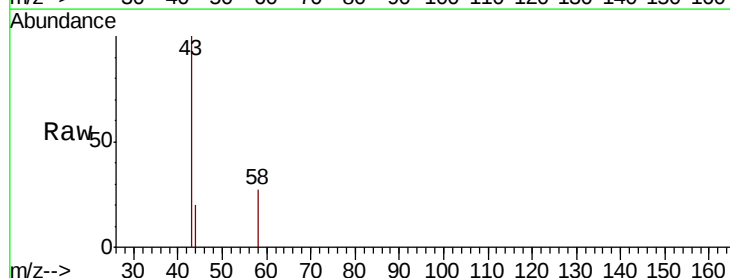
Acq: 24 Jan 2020 18:14

Tgt Ion: 43 Resp: 4235

Ion Ratio Lower Upper

43 100

58 27.2 23.6 35.4

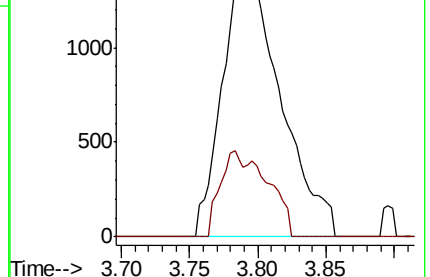
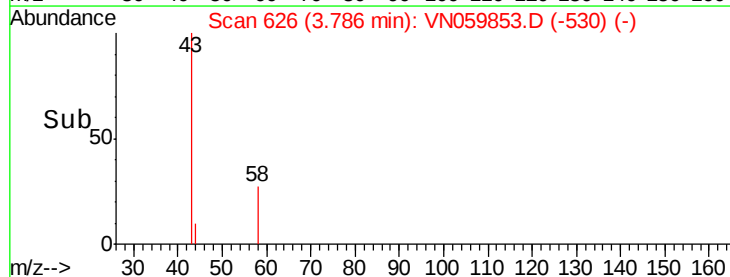


Abundance Ion 43.00 (42.70 to 43.70): VN059690.D (-593) (-)

Ion 58.00 (57.70 to 58.70): VN059690.D (-593) (-)

3.79

Time-->

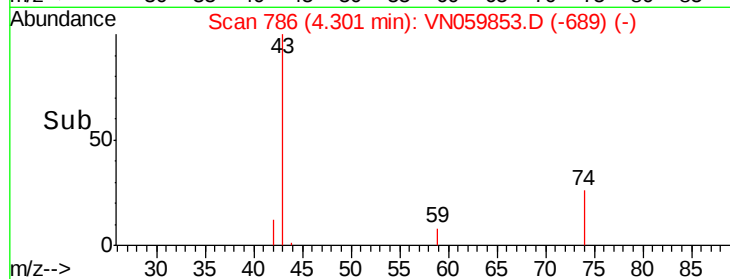
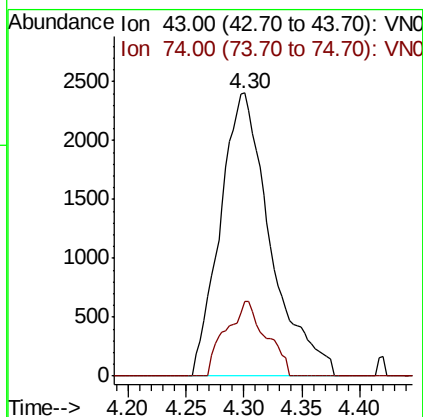
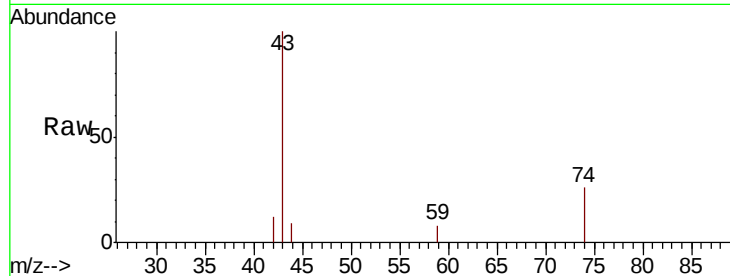




#18
Methyl Acetate
Concen: 2.771 ug/l
RT: 4.30 min Scan# 786
Delta R.T. 0.01 min
Lab File: VN059853.D
Acq: 24 Jan 2020 18:14

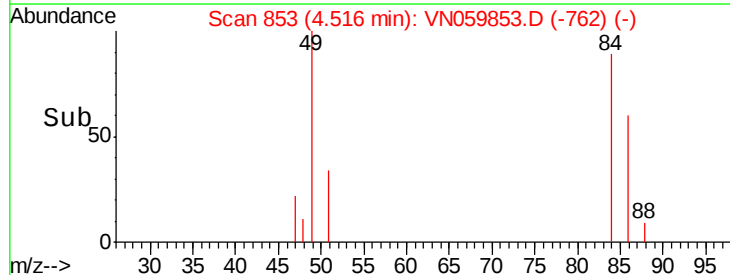
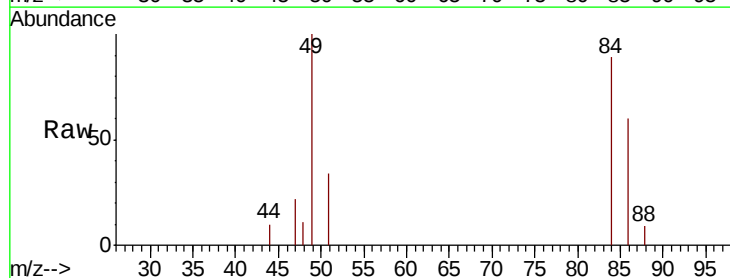
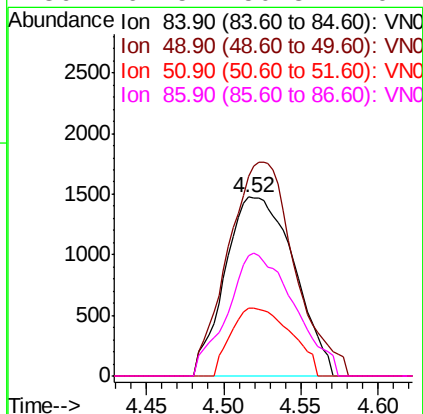
Instrument :
MSVOA_N
ClientSampled :

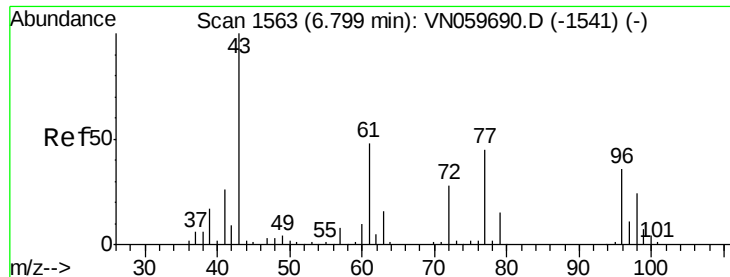
Tot Ion: 43 Resp: 7241
Ion Ratio Lower Upper
43 100
74 21.1 17.5 26.3



#20
Methylene Chloride
Concen: 0.992 ug/l
RT: 4.52 min Scan# 853
Delta R.T. -0.01 min
Lab File: VN059853.D
Acq: 24 Jan 2020 18:14

Tgt Ion: 84 Resp: 4575
Ion Ratio Lower Upper
84 100
49 111.9 106.6 160.0
51 38.1 31.9 47.9
86 67.5 50.8 76.2





#25

2-Butanone

Concen: 0.627 ug/l

RT: 6.81 min Scan# 1568

Delta R.T. 0.02 min

Lab File: VN059853.D

Acq: 24 Jan 2020 18:14

Instrument :

MSVOA_N

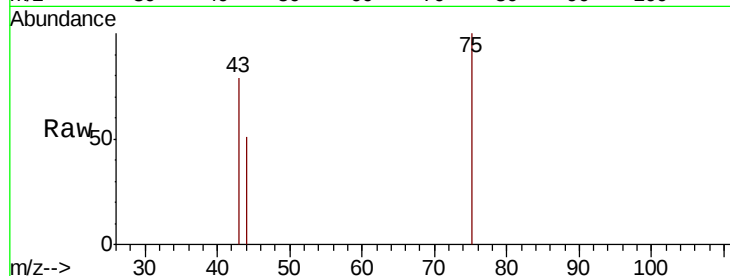
ClientSampled :

Tot Ion: 43 Resp: 795

Ion Ratio Lower Upper

43 100

72 0.0 19.9 29.9#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

6.81

400

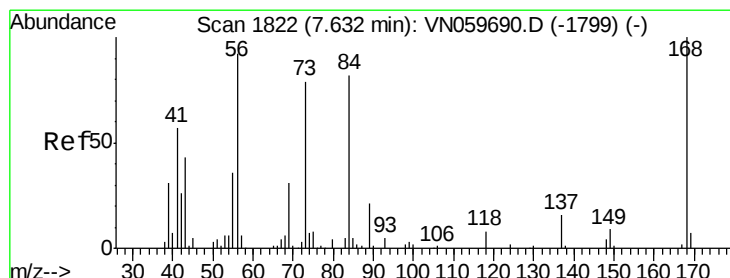
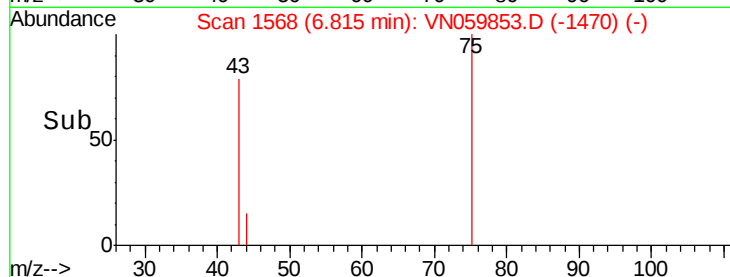
300

200

100

0

Time-->



#31

Cyclohexane

Concen: 1.134 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.01 min

Lab File: VN059853.D

Acq: 24 Jan 2020 18:14

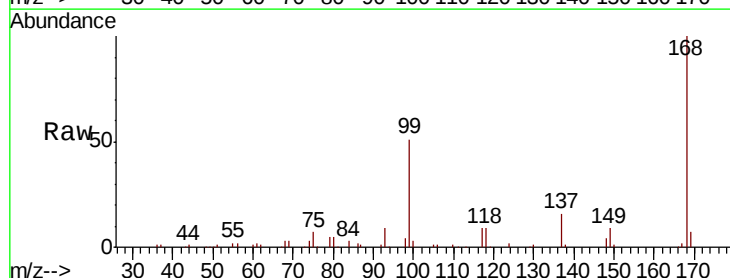
Tgt Ion: 56 Resp: 3755

Ion Ratio Lower Upper

56 100

69 156.6 26.5 39.7#

84 135.9 65.3 97.9#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

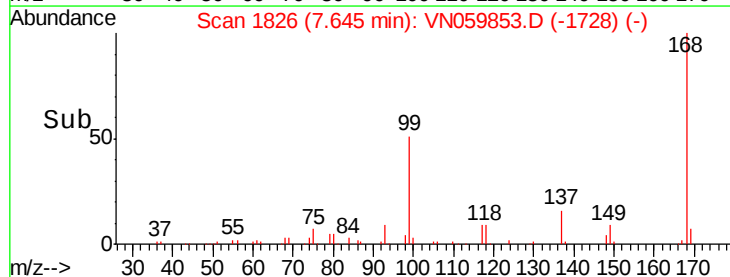
3000

2000

1000

0

Time-->

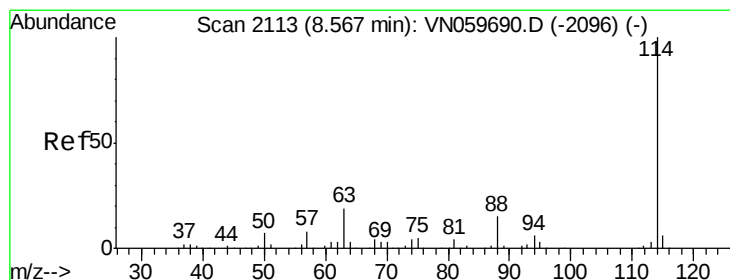
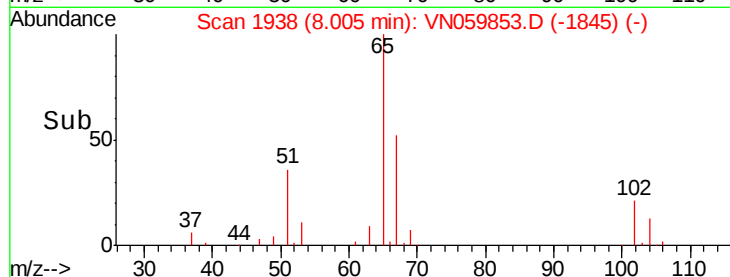
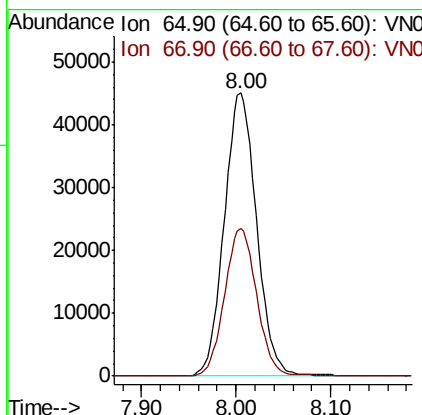
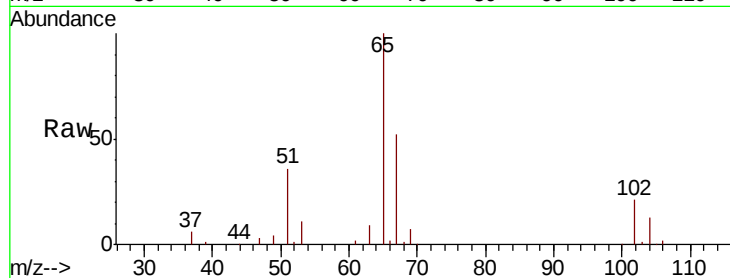




#33
 1,2-Dichloroethane-d4
 Concen: 47.748 ug/l
 RT: 8.00 min Scan# 1938
 Delta R.T. 0.00 min
 Lab File: VN059853.D
 Acq: 24 Jan 2020 18:14

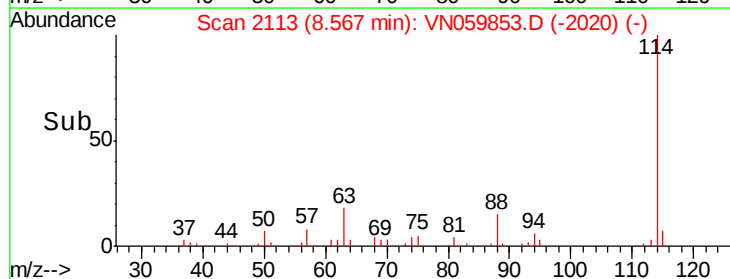
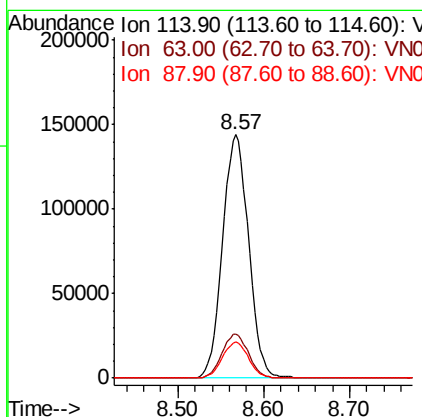
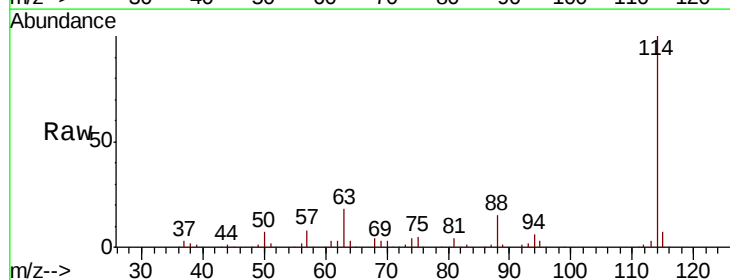
Instrument :
 MSVOA_N
 ClientSampled :

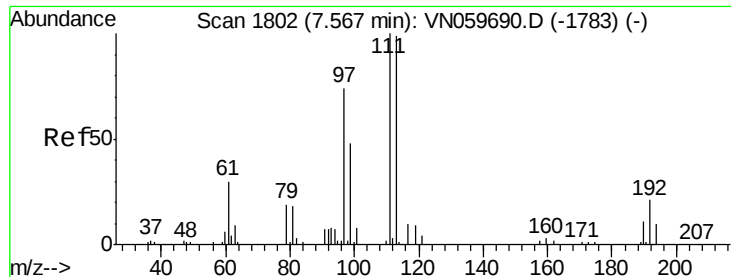
Tot Ion: 65 Resp: 106832
 Ion Ratio Lower Upper
 65 100
 67 51.9 0.0 103.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VN059853.D
 Acq: 24 Jan 2020 18:14

Tgt Ion: 114 Resp: 304182
 Ion Ratio Lower Upper
 114 100
 63 18.2 0.0 43.6
 88 14.9 0.0 31.4

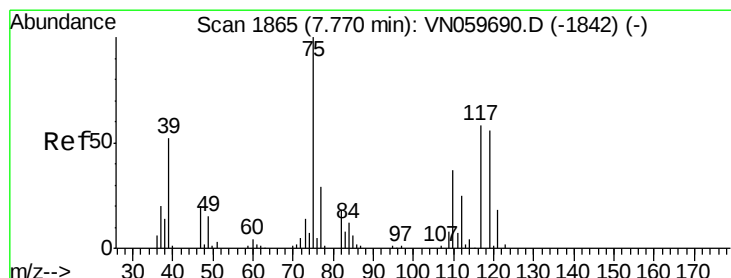
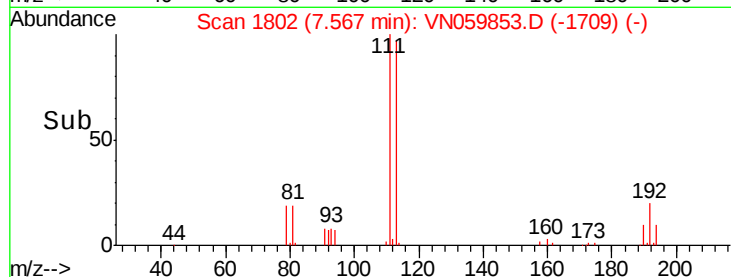
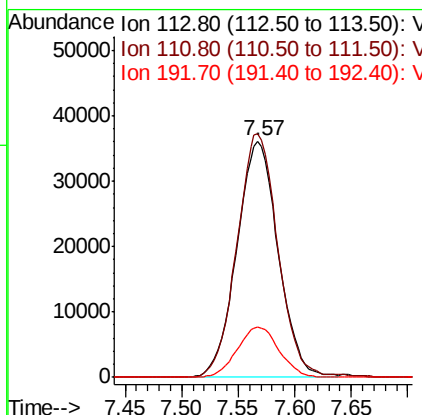
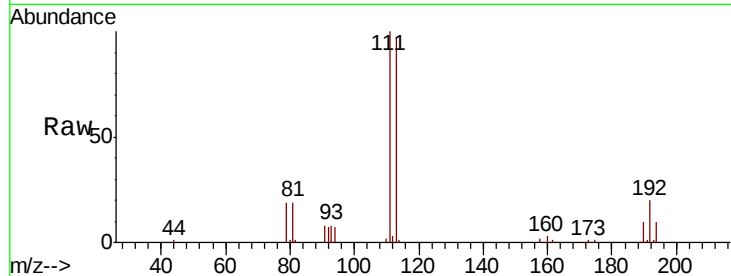




#35
 Dibromofluoromethane
 Concen: 50.597 ug/l
 RT: 7.57 min Scan# 1802
 Delta R.T. 0.00 min
 Lab File: VN059853.D
 Acq: 24 Jan 2020 18:14

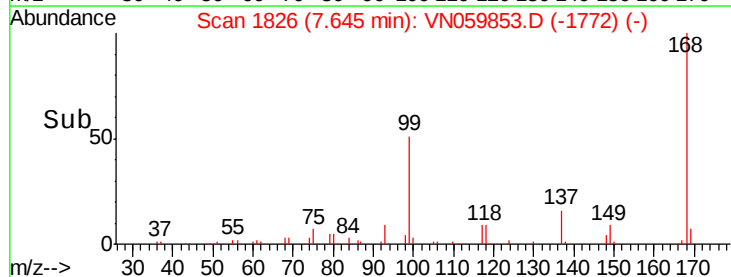
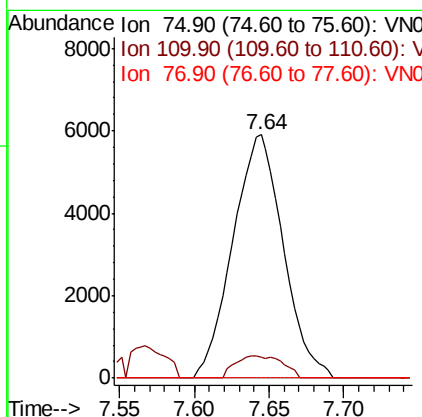
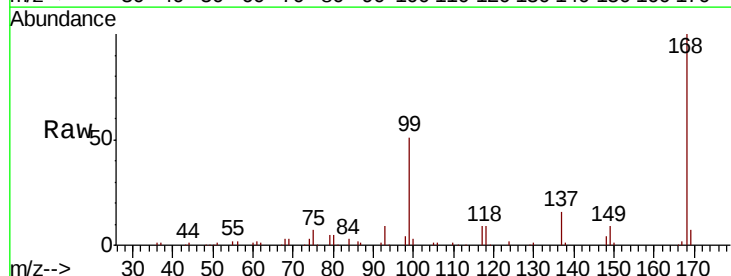
Instrument :
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 ClientSampleId :

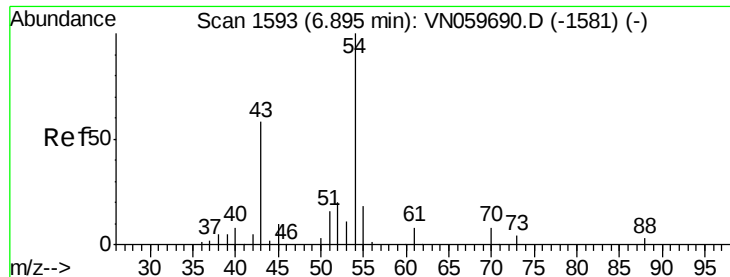
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.9	83.5	125.3
192	21.4	15.4	23.2



#36
 1,1-Dichloropropene
 Concen: 5.223 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. -0.13 min
 Lab File: VN059853.D
 Acq: 24 Jan 2020 18:14

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.5	16.6	49.7#
77	0.0	25.1	37.7#

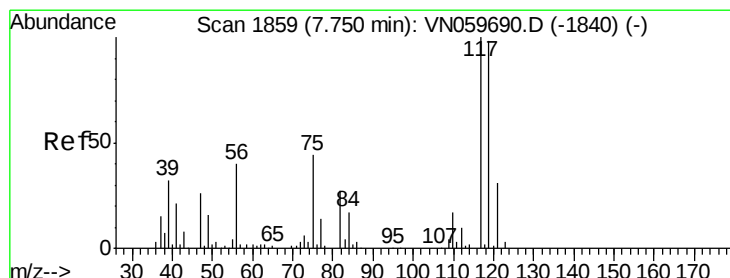
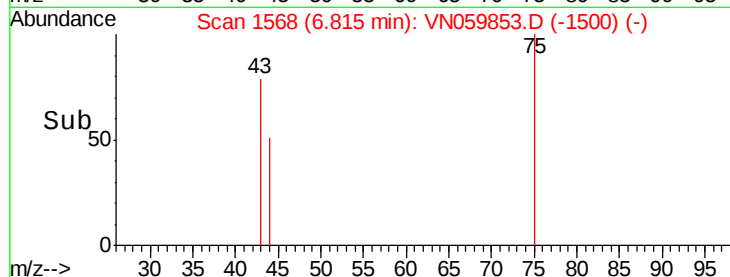
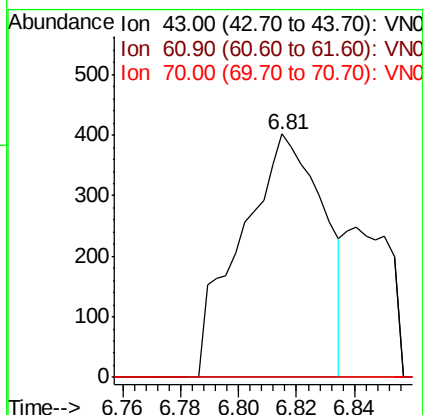
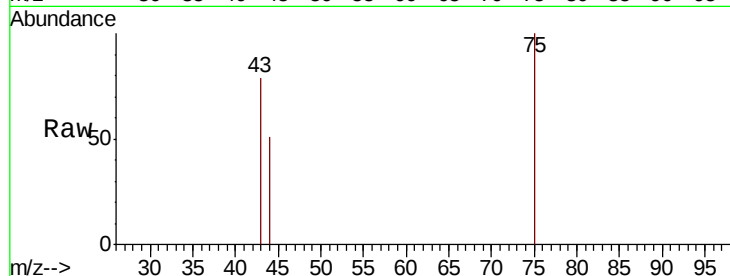




#37
Ethyl Acetate
Concen: 0.320 ug/l
RT: 6.81 min Scan# 1568
Delta R.T. -0.08 min
Lab File: VN059853.D
Acq: 24 Jan 2020 18:14

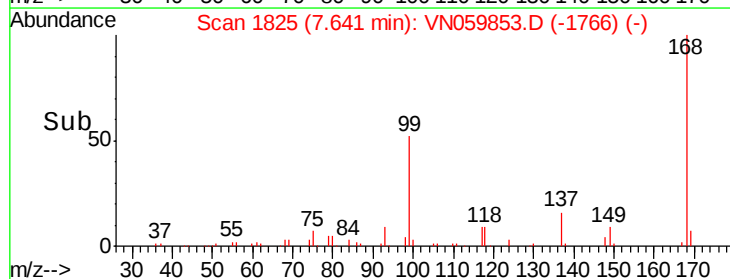
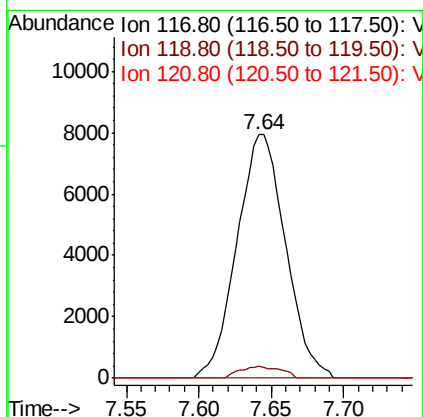
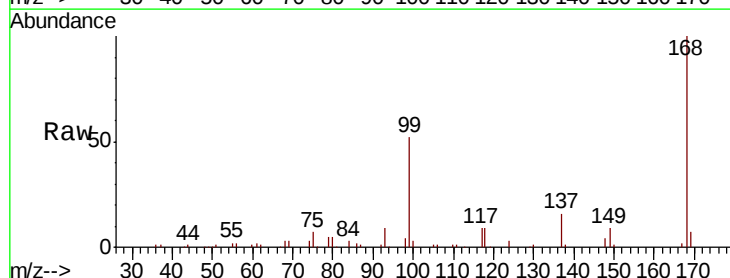
Instrument :
MSVOA_N
ClientSampled :

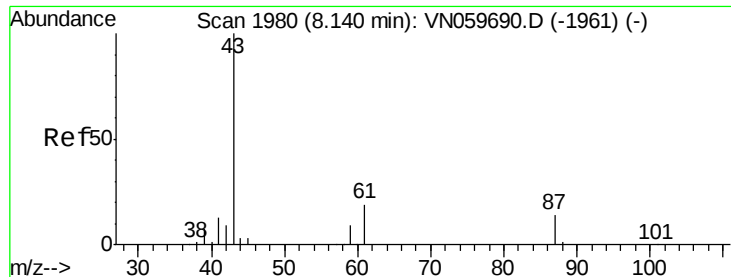
Tot Ion: 43 Resp: 795
Ion Ratio Lower Upper
43 100
61 0.0 10.9 16.3#
70 0.0 7.7 11.5#



#38
Carbon Tetrachloride
Concen: 6.428 ug/l
RT: 7.64 min Scan# 1825
Delta R.T. -0.11 min
Lab File: VN059853.D
Acq: 24 Jan 2020 18:14

Tgt Ion: 117 Resp: 18523
Ion Ratio Lower Upper
117 100
119 4.7 76.5 114.7#
121 0.0 25.1 37.7#





#43

Isopropyl Acetate

Concen: 9.435 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. 0.00 min

Lab File: VN059853.D

Acq: 24 Jan 2020 18:14

Instrument :

MSVOA_N

ClientSampleId :

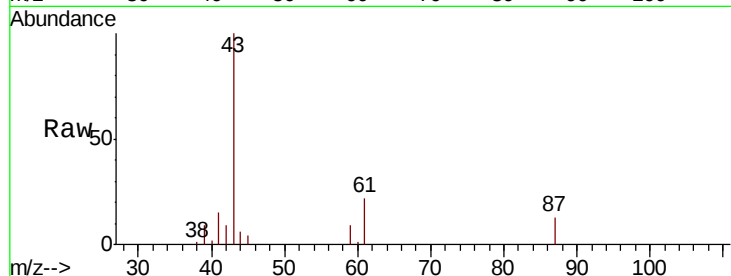
Tot Ion: 43 Resp: 40318

Ion Ratio Lower Upper

43 100

61 20.6 20.2 30.2

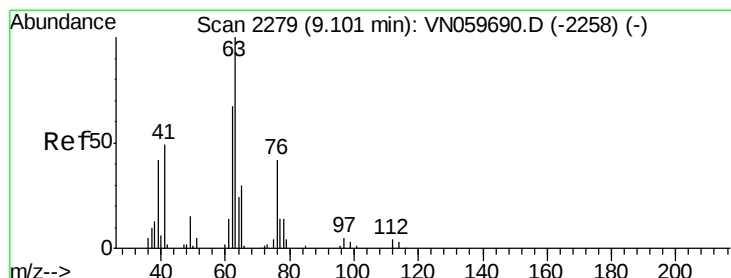
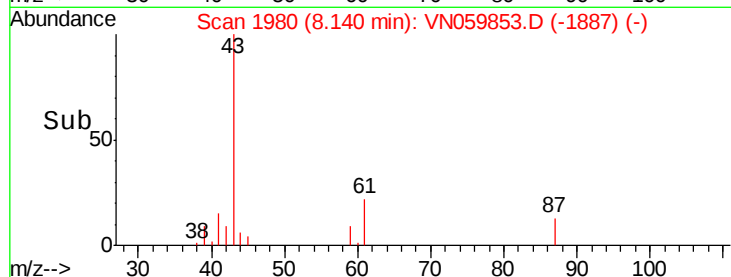
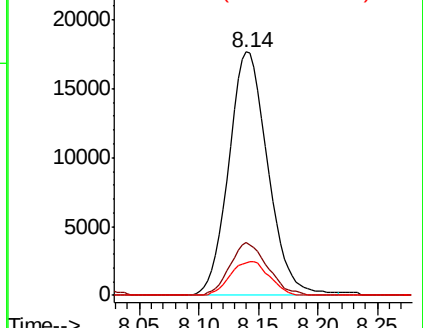
87 13.8 9.5 14.3



Abundance Ion 43.00 (42.70 to 43.70): VN059853.D (-1887) (-)

Ion 61.00 (60.70 to 61.70): VN059853.D (-1887) (-)

Ion 87.00 (86.70 to 87.70): VN059853.D (-1887) (-)



#45

1,2-Dichloropropane

Concen: 0.385 ug/l

RT: 9.25 min Scan# 2324

Delta R.T. 0.14 min

Lab File: VN059853.D

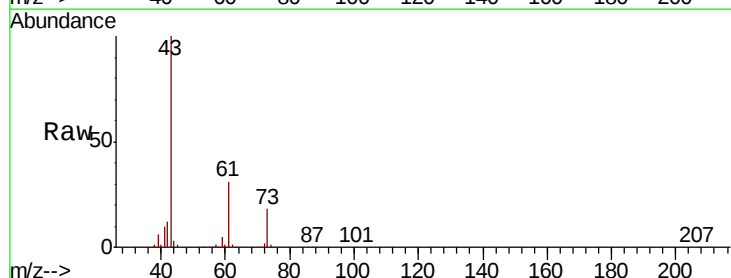
Acq: 24 Jan 2020 18:14

Tgt Ion: 63 Resp: 752

Ion Ratio Lower Upper

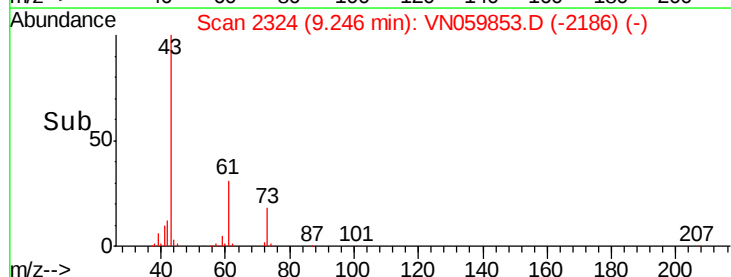
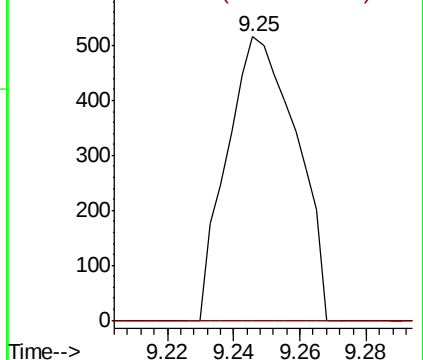
63 100

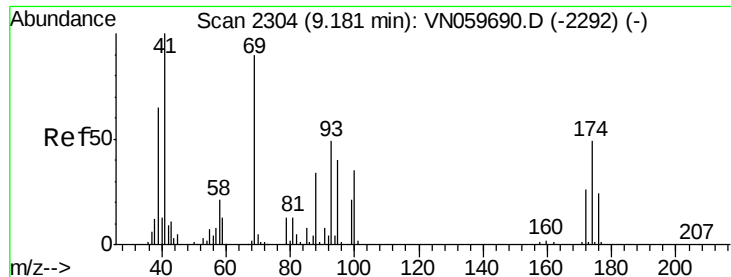
65 0.0 24.9 37.3#



Abundance Ion 62.90 (62.60 to 63.60): VN059853.D (-2186) (-)

Ion 64.90 (64.60 to 65.60): VN059853.D (-2186) (-)

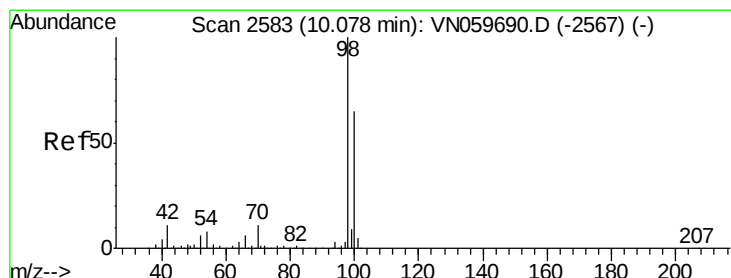
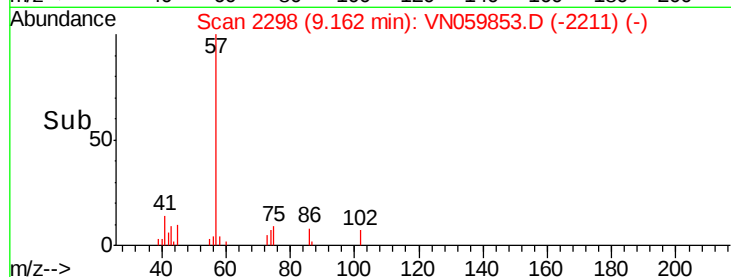
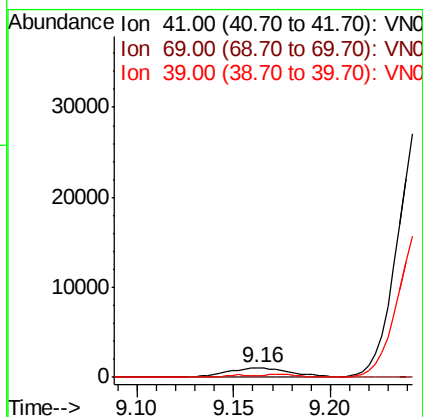
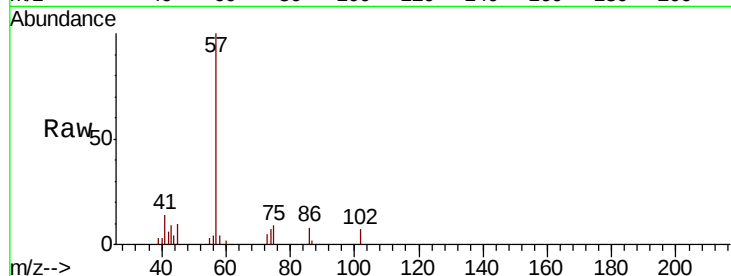




#48
Methvl methacrylate
Concen: 1.245 ug/l
RT: 9.16 min Scan# 2298
Delta R.T. -0.02 min
Lab File: VN059853.D
Acq: 24 Jan 2020 18:14

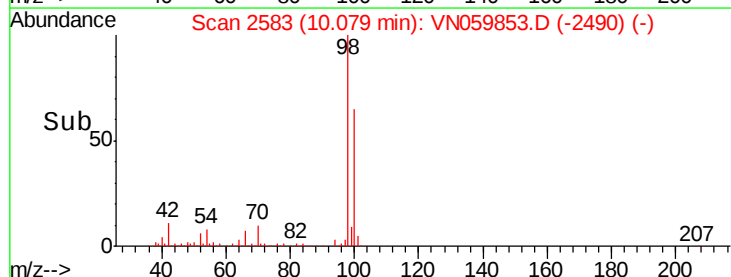
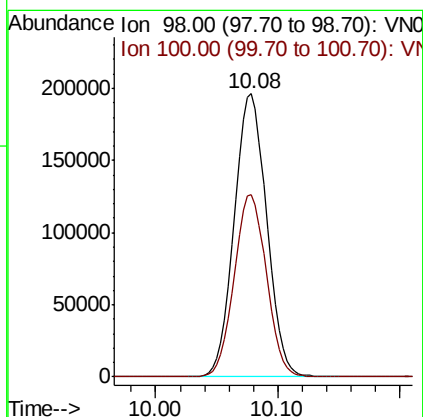
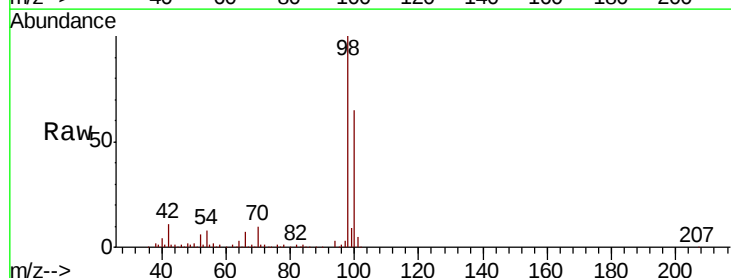
Instrument :
MSVOA_N
ClientSampled :

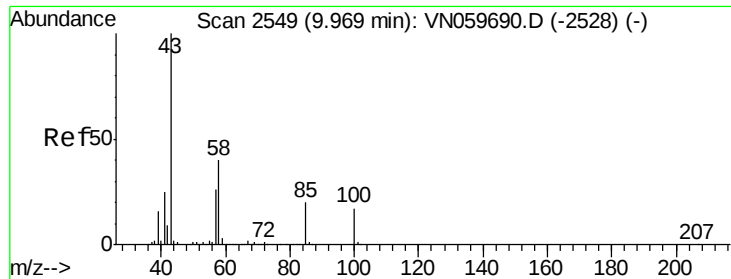
Tot Ion: 41 Resp: 2379
Ion Ratio Lower Upper
41 100
69 0.0 64.4 96.6#
39 0.0 51.3 76.9#



#50
Toluene-d8
Concen: 51.471 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. 0.00 min
Lab File: VN059853.D
Acq: 24 Jan 2020 18:14

Tgt Ion: 98 Resp: 361749
Ion Ratio Lower Upper
98 100
100 64.2 51.2 76.8





#51

4-Methyl-2-Pentanone

Concen: 1.086 ug/l

RT: 9.97 min Scan# 2548

Delta R.T. -0.00 min

Lab File: VN059853.D

Acq: 24 Jan 2020 18:14

Instrument :

MSVOA_N

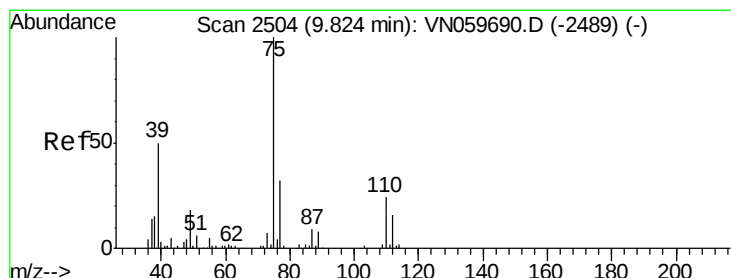
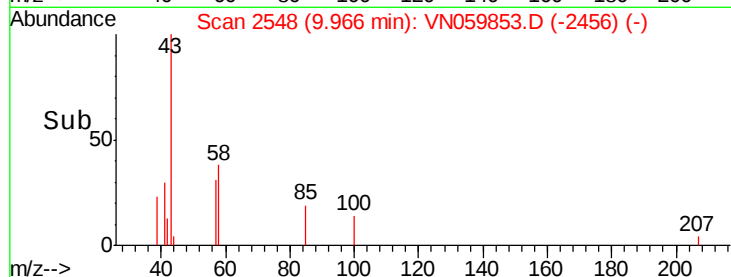
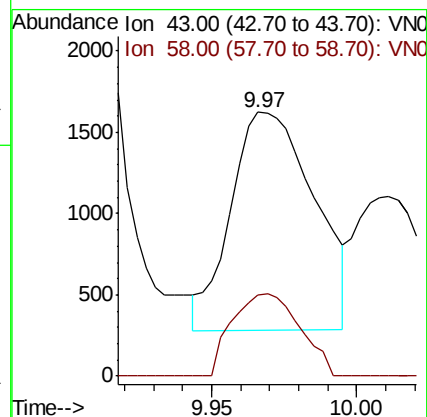
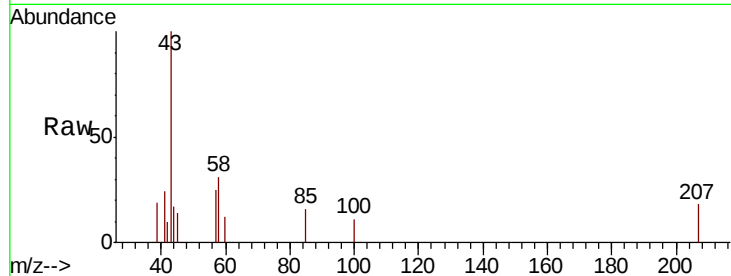
ClientSampleId :

Tot Ion: 43 Resp: 2682

Ion Ratio Lower Upper

43 100

58 30.7 29.8 44.8



#54

cis-1,3-Dichloropropene

Concen: 5.831 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.06 min

Lab File: VN059853.D

Acq: 24 Jan 2020 18:14

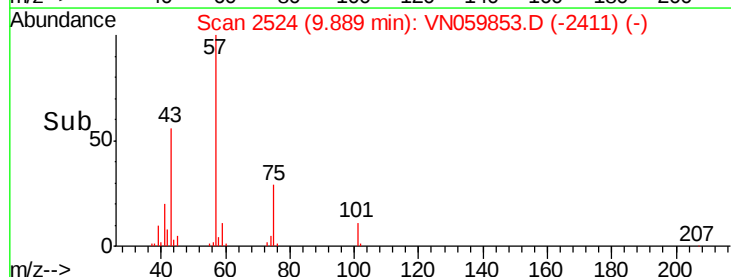
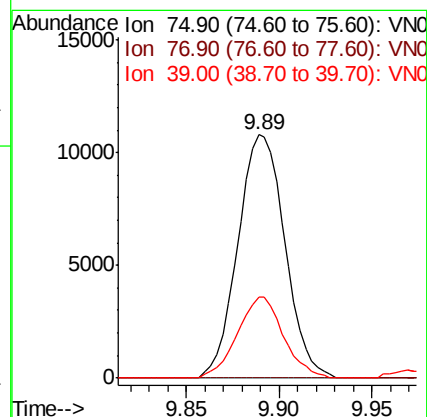
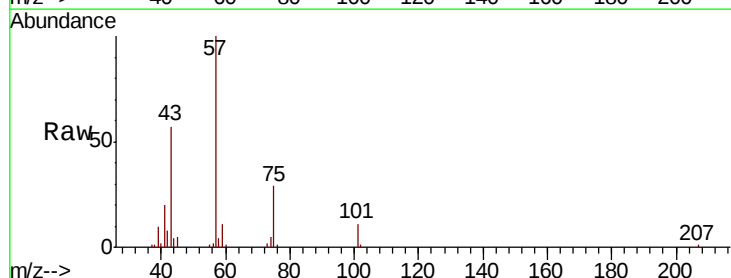
Tgt Ion: 75 Resp: 19036

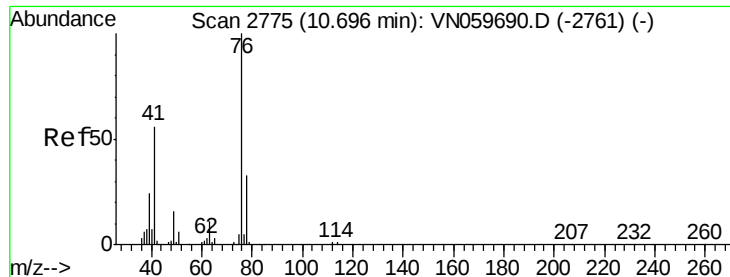
Ion Ratio Lower Upper

75 100

77 0.0 25.1 37.7#

39 33.5 46.1 69.1#

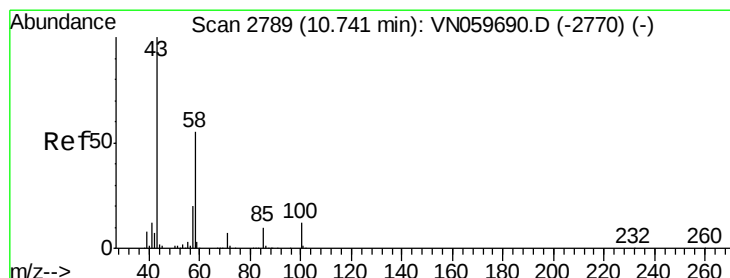
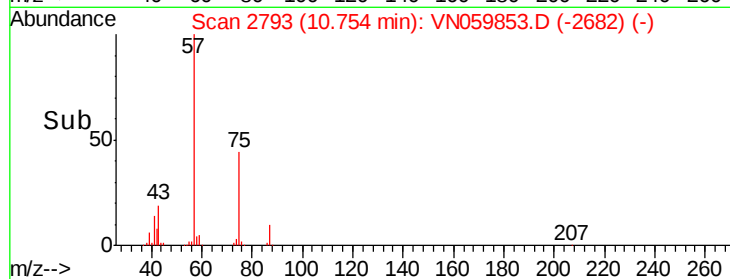
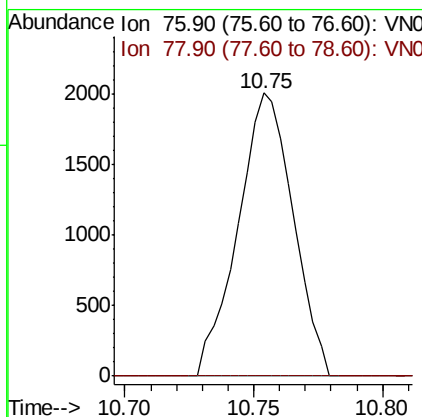
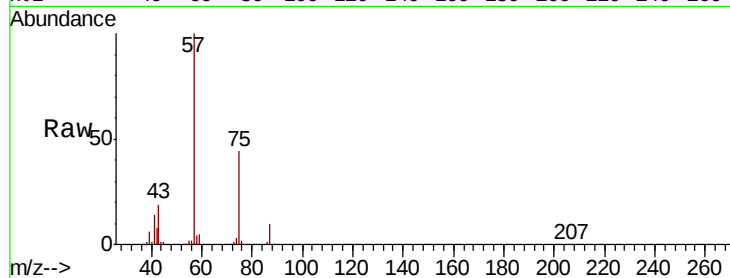




#57
 1,3-Dichloropropane
 Concen: 0.955 ug/l
 RT: 10.75 min Scan# 2793
 Delta R.T. 0.06 min
 Lab File: VN059853.D
 Acq: 24 Jan 2020 18:14

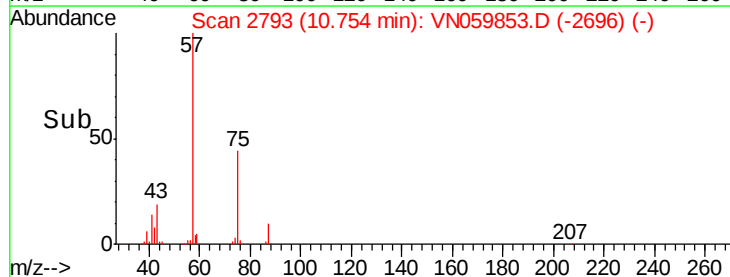
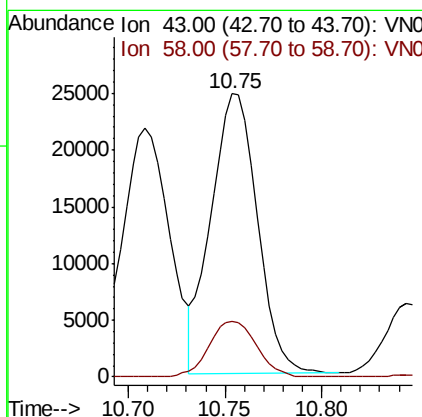
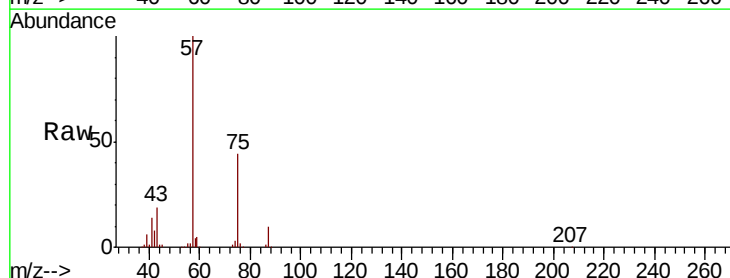
Instrument :
 MSVOA_N
 ClientSampled :

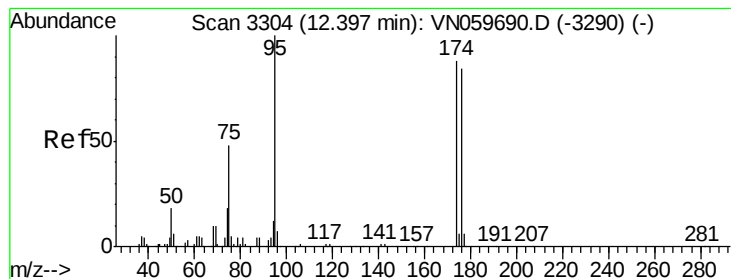
Tot Ion: 76 Resp: 2997
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.8 38.8#



#59
 2-Hexanone
 Concen: 22.593 ug/l
 RT: 10.75 min Scan# 2793
 Delta R.T. 0.01 min
 Lab File: VN059853.D
 Acq: 24 Jan 2020 18:14

Tgt Ion: 43 Resp: 41116
 Ion Ratio Lower Upper
 43 100
 58 20.3 25.8 77.3#





#62

4-Bromofluorobenzene

Concen: 46.531 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.00 min

Lab File: VN059853.D

Acq: 24 Jan 2020 18:14

Instrument :

MSVOA_N

ClientSampleId :

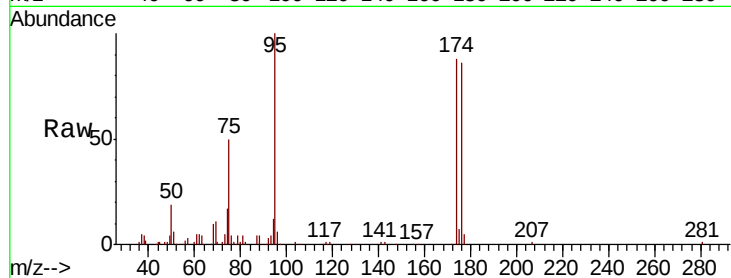
Tot Ion: 95 Resp: 117894

Ion Ratio Lower Upper

95 100

174 88.1 0.0 151.4

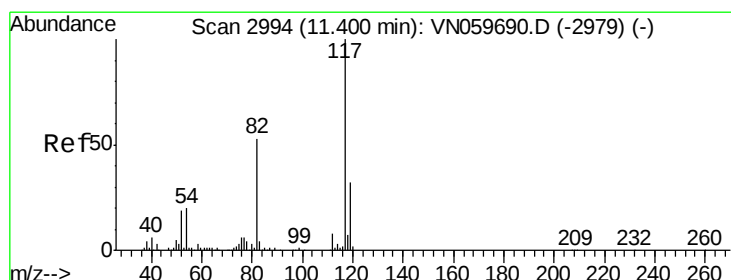
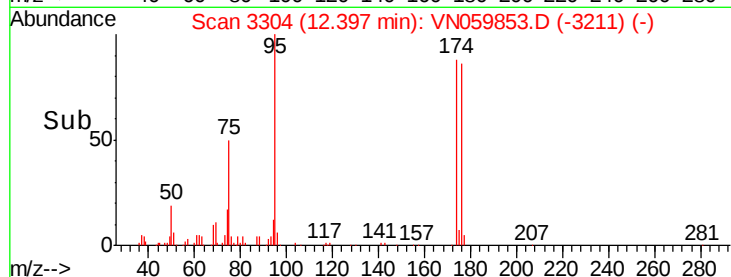
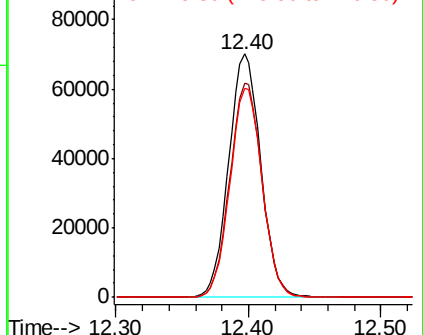
176 86.3 0.0 146.0



Abundance Ion 94.90 (94.60 to 95.60): VN059853.D (-3211) (-)

Ion 173.80 (173.50 to 174.50): VN059853.D (-3211) (-)

Ion 175.80 (175.50 to 176.50): VN059853.D (-3211) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. 0.00 min

Lab File: VN059853.D

Acq: 24 Jan 2020 18:14

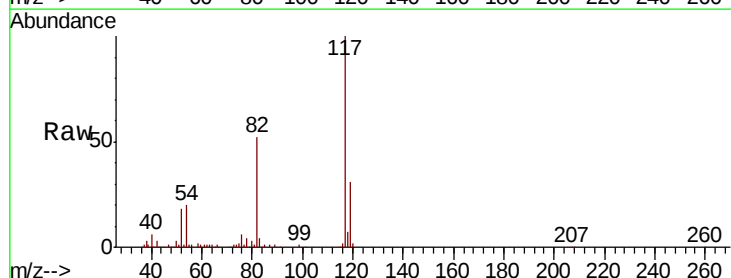
Tgt Ion: 117 Resp: 270631

Ion Ratio Lower Upper

117 100

82 52.2 45.9 68.9

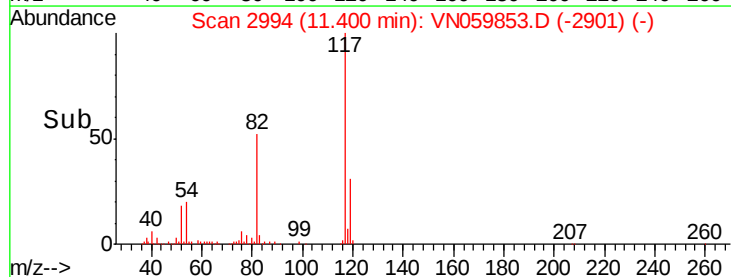
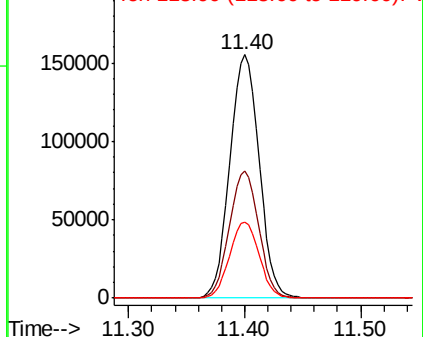
119 31.4 25.5 38.3

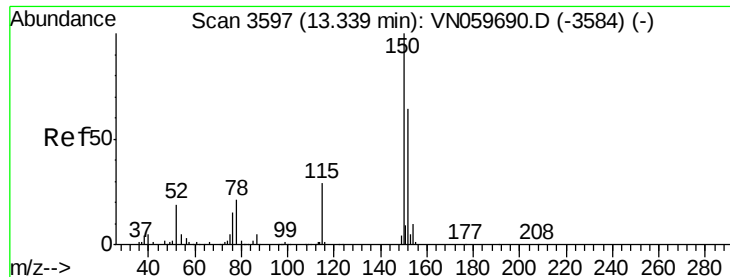


Abundance Ion 116.90 (116.60 to 117.60): VN059853.D (-2901) (-)

Ion 82.00 (81.70 to 82.70): VN059853.D (-2901) (-)

Ion 118.90 (118.60 to 119.60): VN059853.D (-2901) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3597

Delta R.T. 0.00 min

Lab File: VN059853.D

Acq: 24 Jan 2020 18:14

Instrument :

MSVOA_N

ClientSampled :

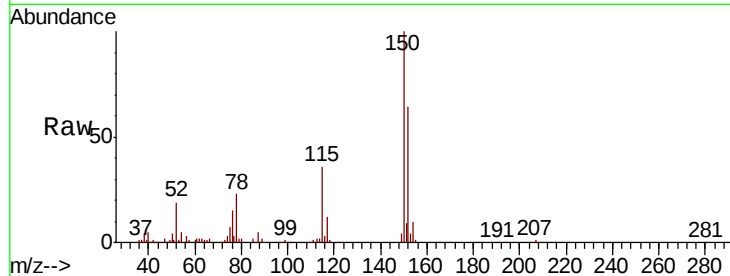
Tot Ion:152 Resp: 108597

Ion Ratio Lower Upper

152 100

115 56.1 30.3 90.9

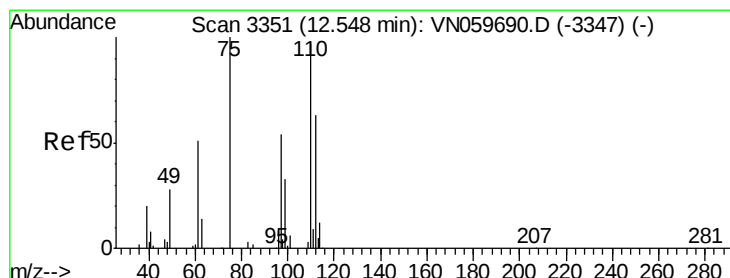
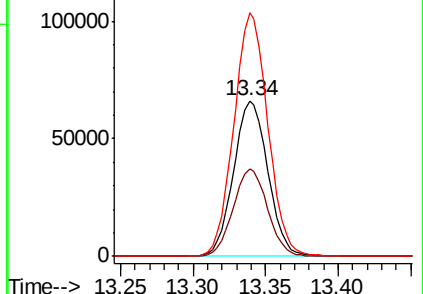
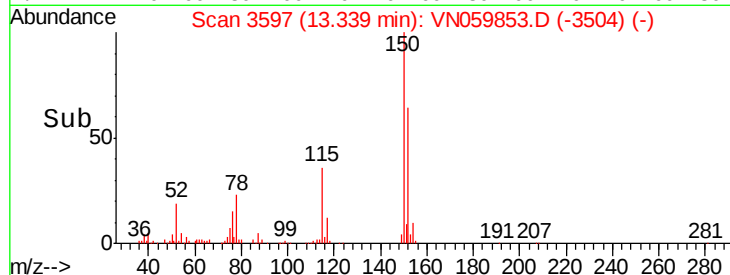
150 155.7 0.0 345.2



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 32.696 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN059853.D

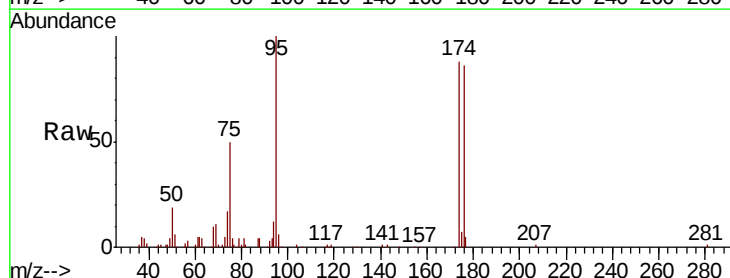
Acq: 24 Jan 2020 18:14

Tgt Ion: 75 Resp: 59755

Ion Ratio Lower Upper

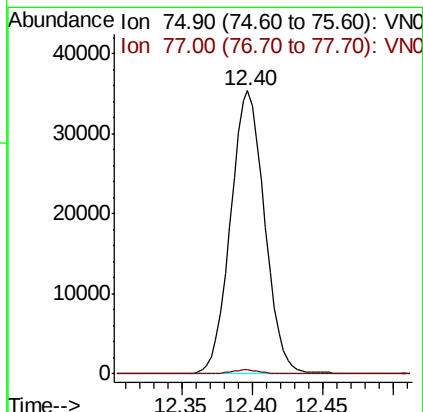
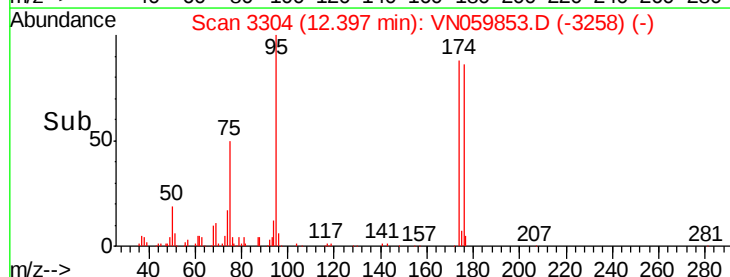
75 100

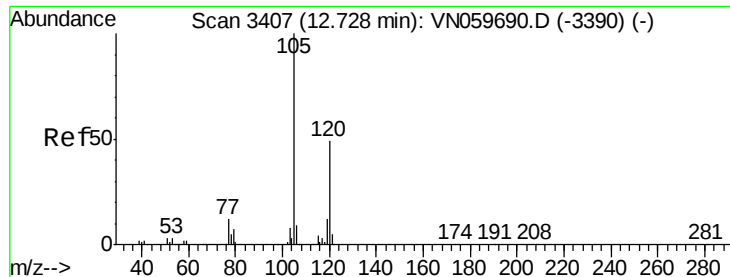
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

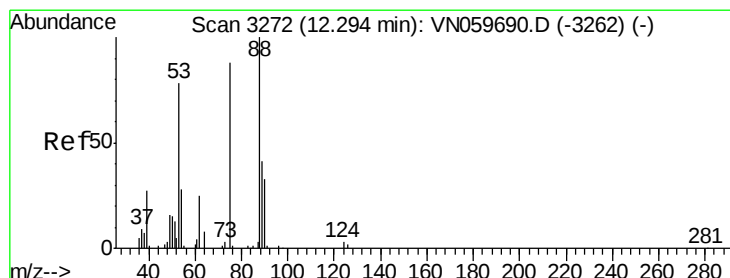
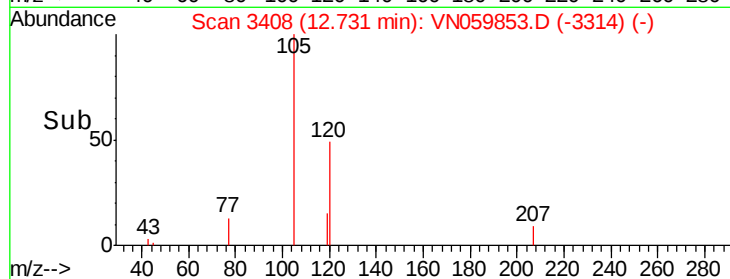
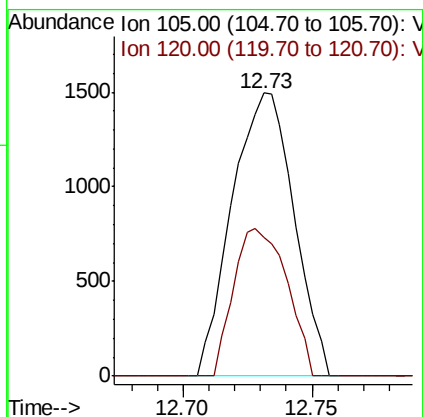
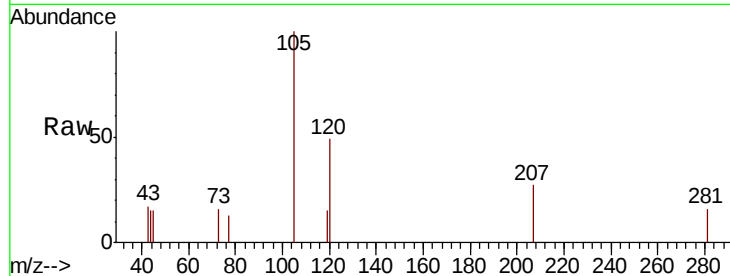




#80
 1,3,5-Trimethylbenzene
 Concen: 0.374 ug/l
 RT: 12.73 min Scan# 3408
 Delta R.T. 0.00 min
 Lab File: VN059853.D
 Acq: 24 Jan 2020 18:14

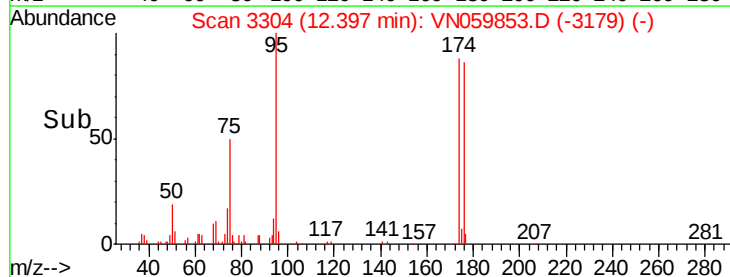
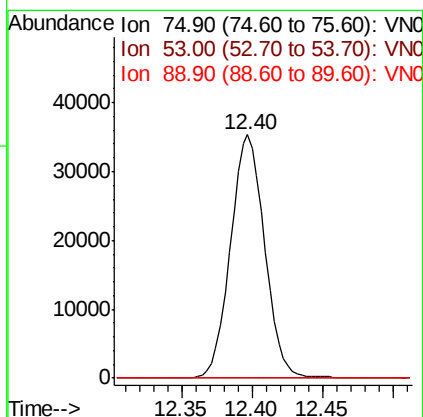
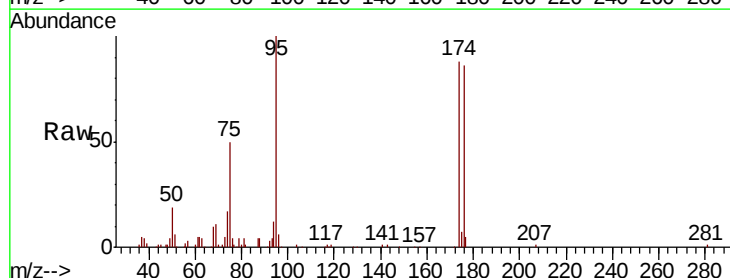
Instrument :
 MSVOA_N
 ClientSampleId :

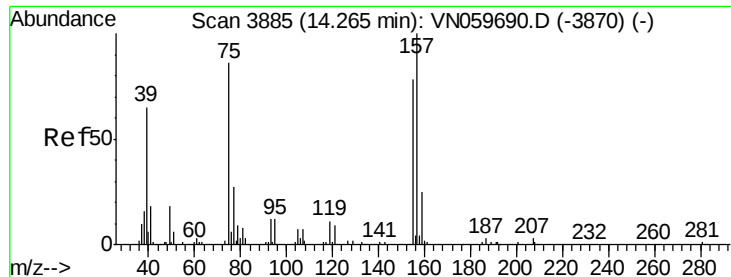
Tot Ion: 105 Resp: 2504
 Ion Ratio Lower Upper
 105 100
 120 44.8 24.1 72.4



#81
 trans-1,4-Dichloro-2-butene
 Concen: 70.215 ug/l
 RT: 12.40 min Scan# 3304
 Delta R.T. 0.10 min
 Lab File: VN059853.D
 Acq: 24 Jan 2020 18:14

Tgt Ion: 75 Resp: 59755
 Ion Ratio Lower Upper
 75 100
 53 0.0 78.1 117.1#
 89 0.0 35.4 53.2#





#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.27 min Scan# 3887

Delta R.T. 0.01 min

Lab File: VN059853.D

Acq: 24 Jan 2020 18:14

Instrument :

MSVOA_N

ClientSampleId :

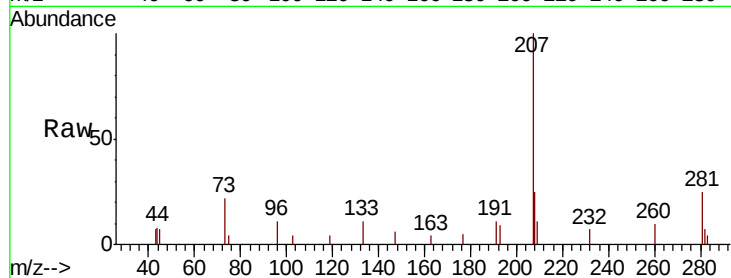
Tot Ion: 75 Resp: 60

Ion Ratio Lower Upper

75 100

155 0.0 37.0 110.9#

157 0.0 48.4 145.2#



Abundance Ion 74.90 (74.60 to 75.60): VN059853.D (-3791) (-)

Ion 154.80 (154.50 to 155.50): VN059853.D (-3791) (-)

Ion 156.80 (156.50 to 157.50): VN059853.D (-3791) (-)

