

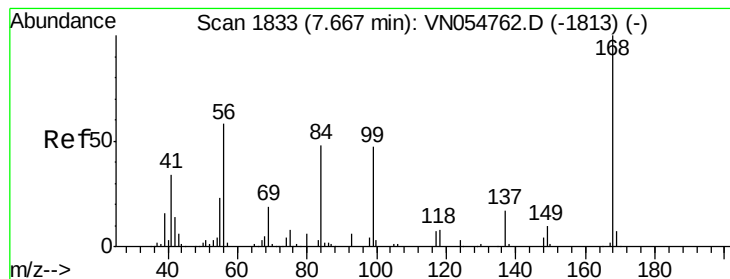
Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN040119\
 Data File : VN054886.D
 Acq On : 1 Apr 2019 20:20
 Operator : JC/SP
 Sample : K1695-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 SV-28399L

Quant Time: Apr 02 04:25:29 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N032919W.M
 Quant Title : SW846 8260
 QLast Update : Sat Mar 30 00:48:18 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	518359	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	859549	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	724173	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	253594	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	341768	48.91	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.82%	
35) Dibromofluoromethane	7.59	113	275710	48.11	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.22%	
50) Toluene-d8	10.09	98	1022036	47.97	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.94%	
62) 4-Bromofluorobenzene	12.40	95	314567	44.40	ug/l	0.00
Spiked Amount	50.000		Recovery	=	88.80%	
Target Compounds						
					Qvalue	
5) Bromomethane	2.58	94	96	Below Cal		87
11) Tert butyl alcohol	4.82	59	30486	83.737 ug/l #		88
16) Acetone	3.82	43	23183	13.913 ug/l #		79
18) Methyl Acetate	4.33	43	724	Below Cal #		49
19) Methyl tert-butyl Ether	5.06	73	3674	0.258 ug/l #		86
20) Methylene Chloride	4.55	84	2449	0.417 ug/l #		84
25) 2-Butanone	6.85	43	33893	13.760 ug/l		92
29) Tetrahydrofuran	7.22	42	60598	35.422 ug/l #		84
31) Cyclohexane	7.67	56	11551	Below Cal #		23
36) 1,1-Dichloropropene	7.66	75	40254	5.026 ug/l #		41
37) Ethyl Acetate	6.85	43	33893	5.771 ug/l #		68
38) Carbon Tetrachloride	7.66	117	49692	6.388 ug/l #		17
41) Methacrylonitrile	7.22	41	35632	10.799 ug/l #		40
43) Isopropyl Acetate	8.29	43	23291	2.441 ug/l #		60
51) 4-Methyl-2-Pentanone	9.99	43	1428	0.266 ug/l #		36
58) 2-Chloroethyl Vinyl ether	9.64	63	73	10.379 ug/l #		44
71) Bromoform	12.40	173	2821	0.907 ug/l #		1
73) Isopropylbenzene	12.25	105	15854	0.765 ug/l		96
75) 1,1,2,2-Tetrachloroethane	12.40	83	301	Below Cal #		1
76) 1,2,3-Trichloropropane	12.40	75	164789	37.405 ug/l #		100
81) trans-1,4-Dichloro-2-buten	12.40	75	164789	145.497 ug/l #		11
95) Naphthalene	15.13	128	109142	11.941 ug/l		97

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN054886.D

Acq: 1 Apr 2019 20:20

Instrument :

MSVOA_N

ClientSampleId :

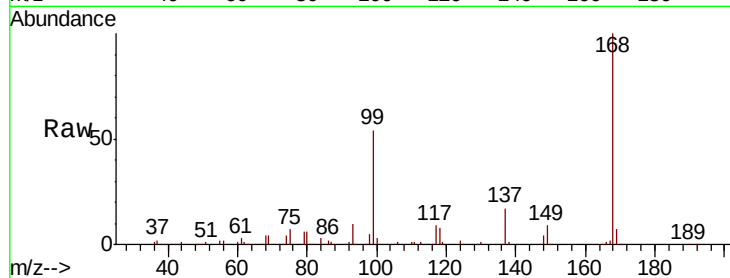
SV-28399L

Tot Ion:168 Resp: 518359

Ion Ratio Lower Upper

168 100

99 54.3 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

200000

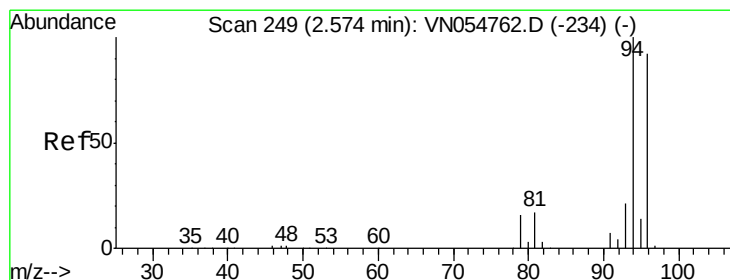
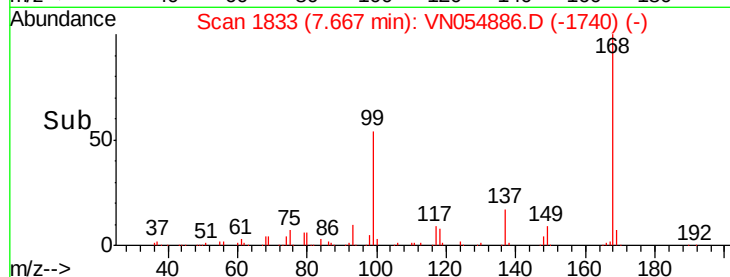
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.58 min Scan# 251

Delta R.T. 0.01 min

Lab File: VN054886.D

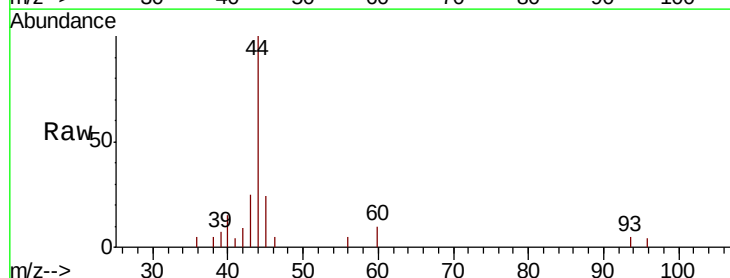
Acq: 1 Apr 2019 20:20

Tgt Ion: 94 Resp: 96

Ion Ratio Lower Upper

94 100

96 83.3 77.0 115.4



Abundance Ion 93.90 (93.60 to 94.60): VN

Ion 95.90 (95.60 to 96.60): VN

2.58

200

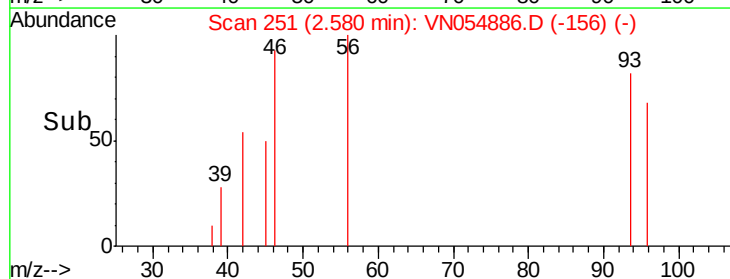
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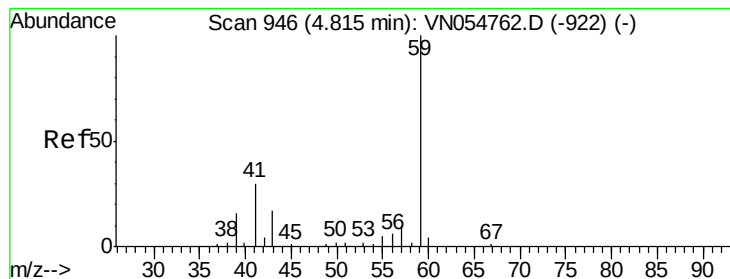
100

50

0

Time-->





#11

Tert butyl alcohol

Concen: 83.737 ug/l

RT: 4.82 min Scan# 946

Delta R.T. -0.00 min

Lab File: VN054886.D

Acq: 1 Apr 2019 20:20

Instrument :

MSVOA_N

ClientSampleId :

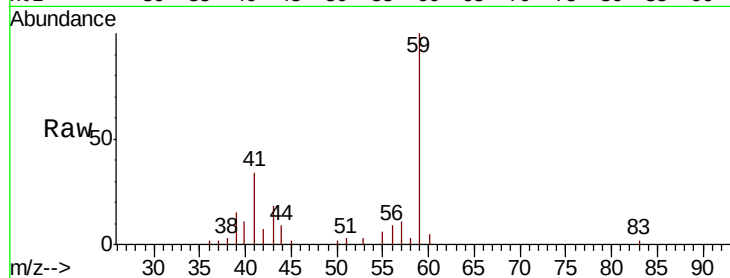
SV-28399L

Tot Ion: 59 Resp: 30486

Ion Ratio Lower Upper

59 100

57 6.6 9.0 13.6#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0

4.82

8000

6000

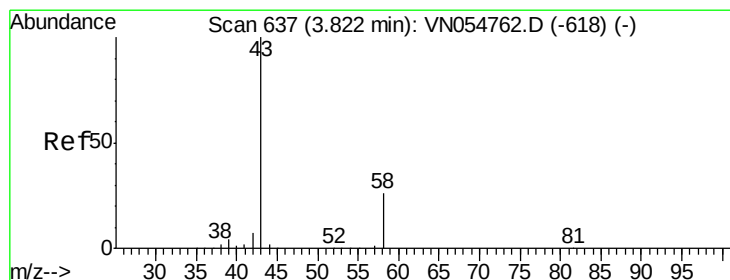
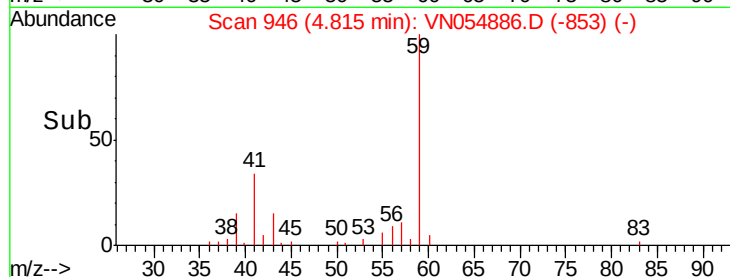
4000

2000

0

Time-->

4.70 4.80 4.90



#16

Acetone

Concen: 13.913 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.00 min

Lab File: VN054886.D

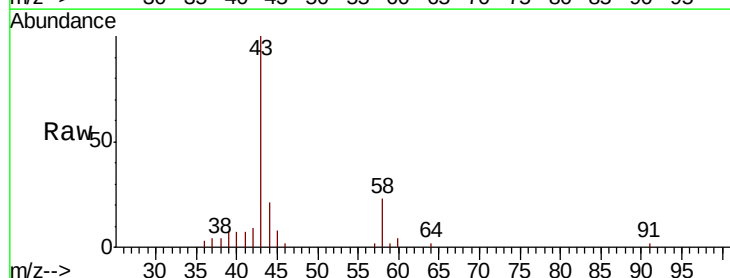
Acq: 1 Apr 2019 20:20

Tgt Ion: 43 Resp: 23183

Ion Ratio Lower Upper

43 100

58 25.0 29.9 44.9#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

12000

10000

8000

6000

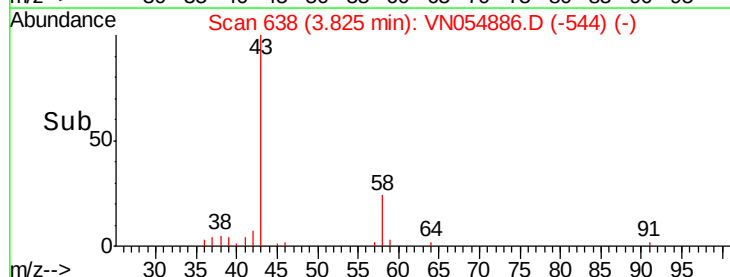
4000

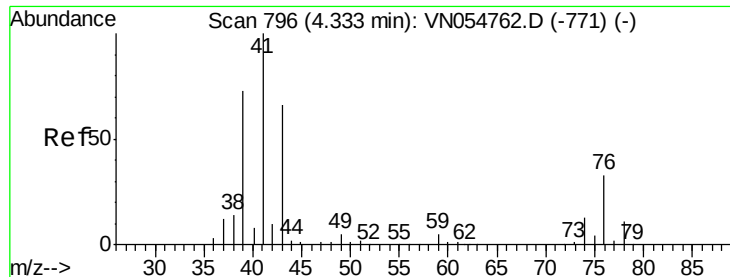
2000

0

Time-->

3.75 3.80 3.85 3.90

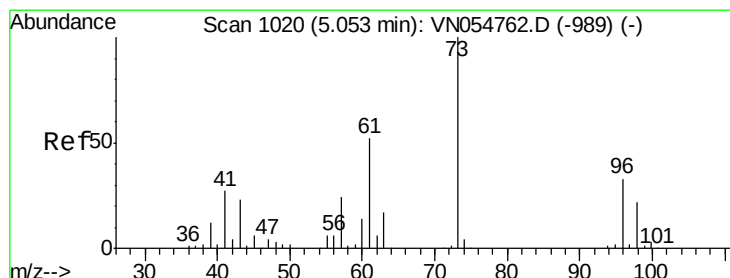
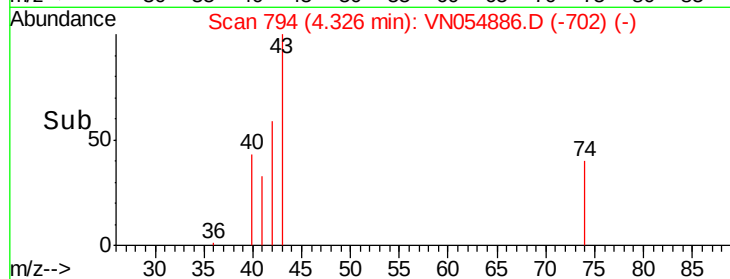
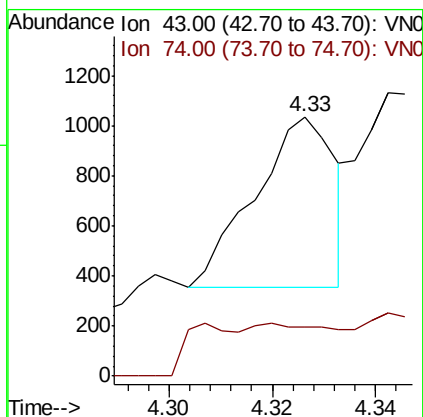
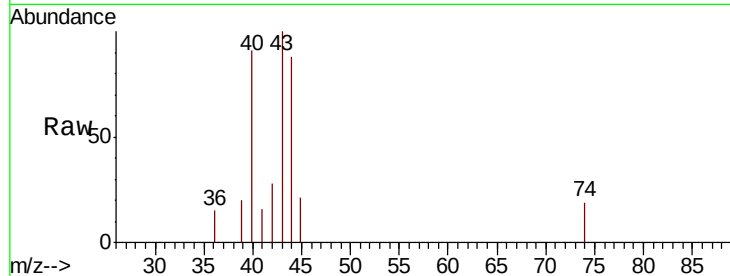




#18
Methyl Acetate
Concen: Below Cal
RT: 4.33 min Scan# 794
Delta R.T. -0.01 min
Lab File: VN054886.D
Acq: 1 Apr 2019 20:20

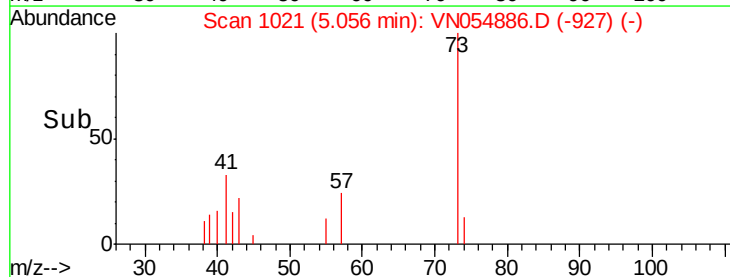
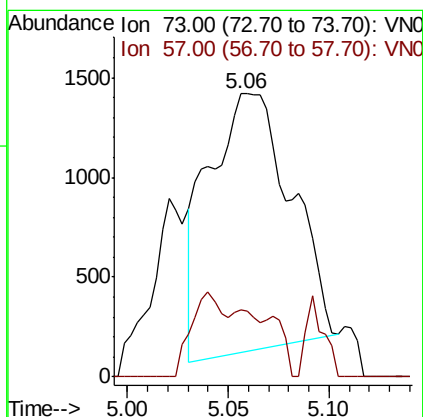
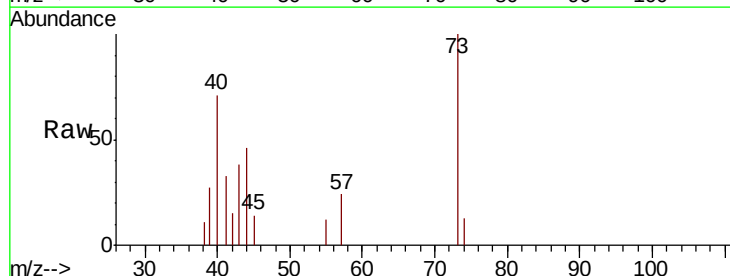
Instrument :
MSVOA_N
ClientSampled :
SV-28399L

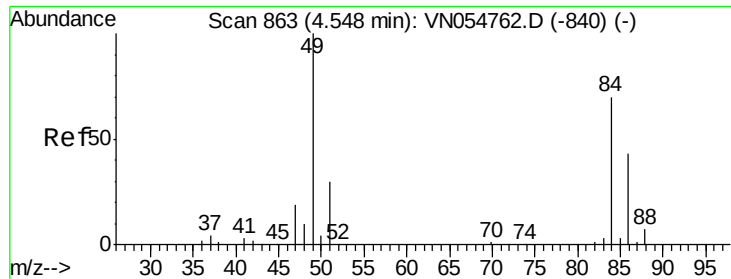
Tot Ion: 43 Resp: 724
Ion Ratio Lower Upper
43 100
74 0.0 20.8 31.2#



#19
Methyl tert-butyl Ether
Concen: 0.258 ug/l
RT: 5.06 min Scan# 1021
Delta R.T. 0.00 min
Lab File: VN054886.D
Acq: 1 Apr 2019 20:20

Tgt Ion: 73 Resp: 3674
Ion Ratio Lower Upper
73 100
57 27.8 16.8 25.2#

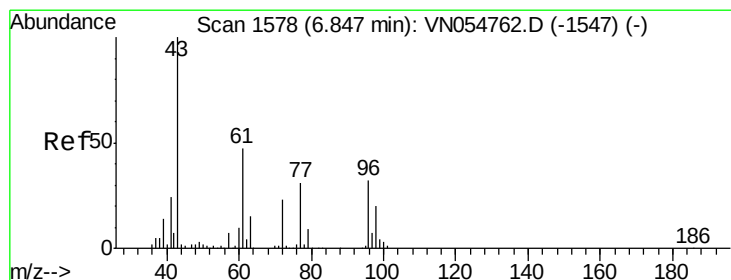
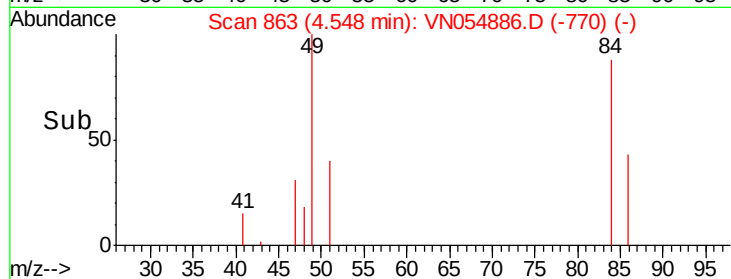
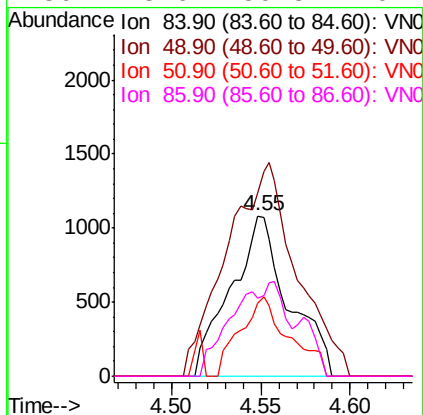
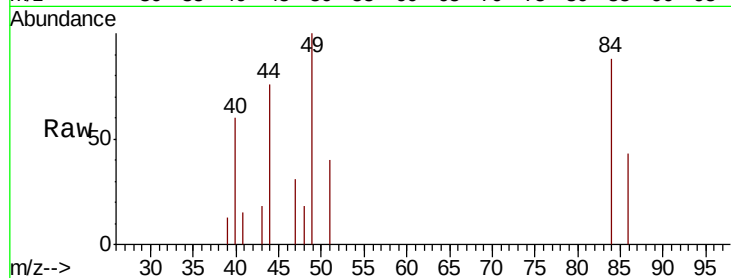




#20
Methvlene Chloride
Concen: 0.417 ug/l
RT: 4.55 min Scan# 863
Delta R.T. -0.00 min
Lab File: VN054886.D
Acq: 1 Apr 2019 20:20

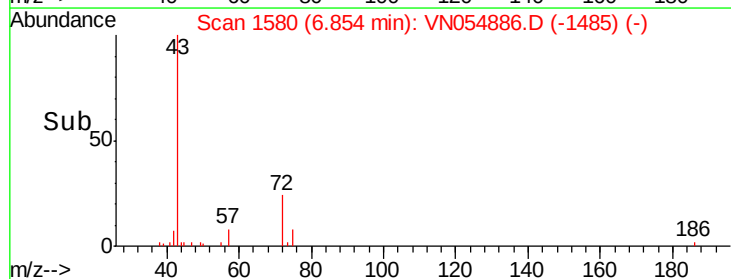
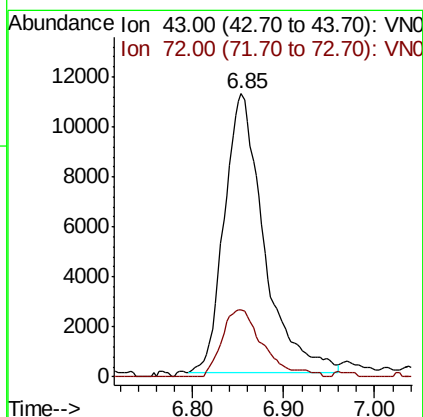
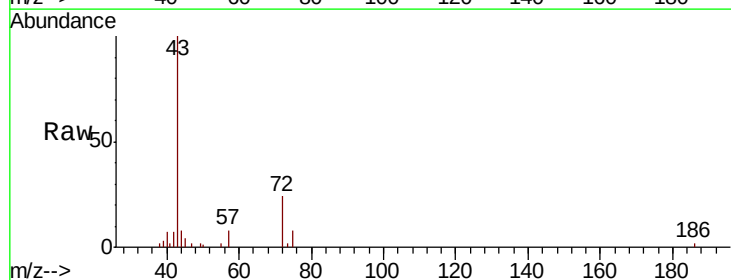
Instrument :
MSVOA_N
ClientSampleId :
SV-28399L

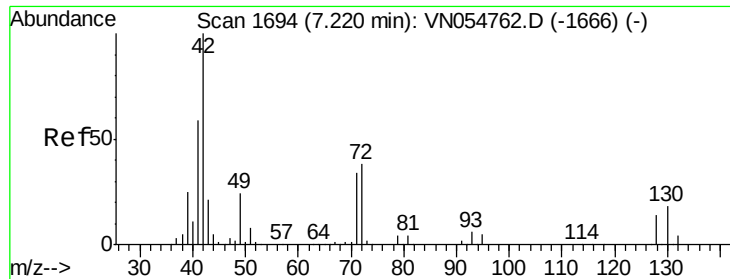
Tot Ion: 84 Resp: 2449
Ion Ratio Lower Upper
84 100
49 97.2 89.7 134.5
51 45.3 28.2 42.4#
86 48.6 50.8 76.2#



#25
2-Butanone
Concen: 13.760 ug/l
RT: 6.85 min Scan# 1580
Delta R.T. 0.01 min
Lab File: VN054886.D
Acq: 1 Apr 2019 20:20

Tgt Ion: 43 Resp: 33893
Ion Ratio Lower Upper
43 100
72 24.3 23.0 34.6





#29

Tetrahydrofuran

Concen: 35.422 ug/l

RT: 7.22 min Scan# 1695

Delta R.T. 0.00 min

Lab File: VN054886.D

Acq: 1 Apr 2019 20:20

Instrument :

MSVOA_N

ClientSampleId :

SV-28399L

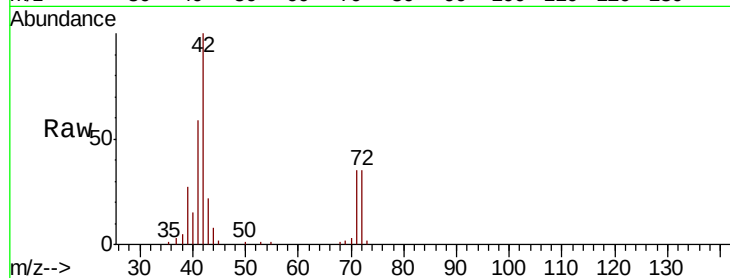
Tot Ion: 42 Resp: 60598

Ion Ratio Lower Upper

42 100

72 36.6 37.8 56.6#

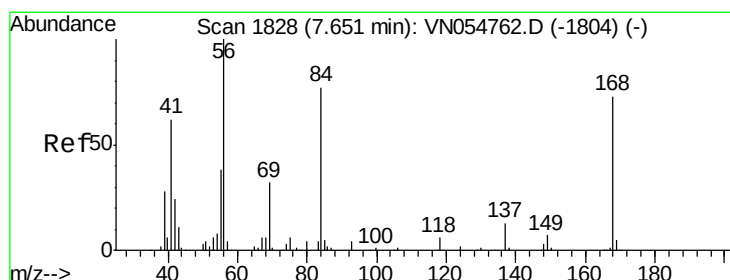
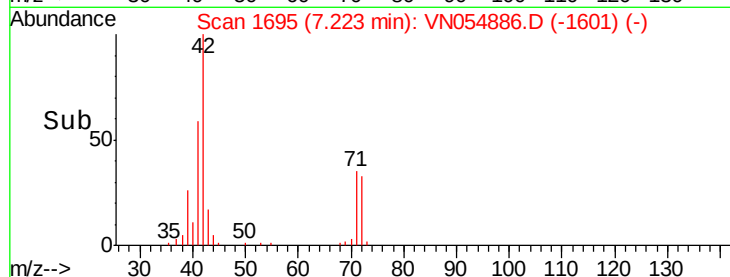
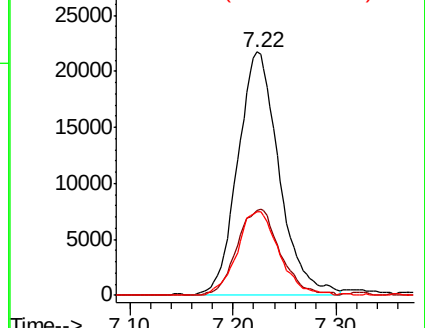
71 34.9 36.2 54.2#



Abundance Ion 42.00 (41.70 to 42.70): VN054762.D (-1666) (-)

Ion 72.00 (71.70 to 72.70): VN054762.D (-1666) (-)

Ion 71.00 (70.70 to 71.70): VN054762.D (-1666) (-)



#31

Cyclohexane

Concen: Below Cal

RT: 7.67 min Scan# 1833

Delta R.T. 0.02 min

Lab File: VN054886.D

Acq: 1 Apr 2019 20:20

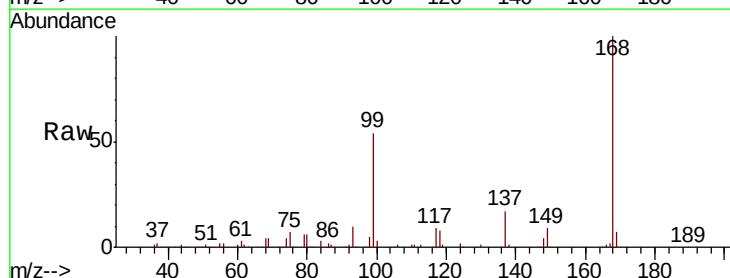
Tgt Ion: 56 Resp: 11551

Ion Ratio Lower Upper

56 100

69 164.9 27.8 41.6#

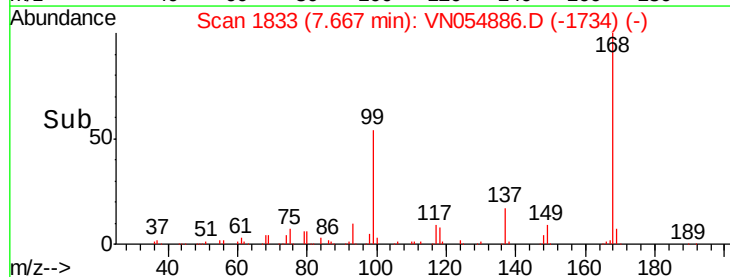
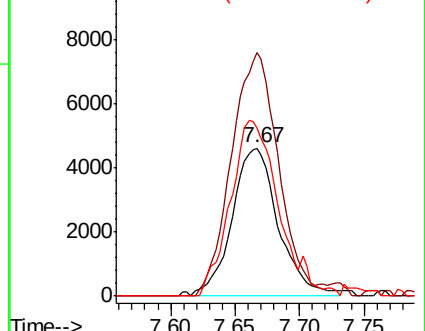
84 113.8 74.6 111.8#

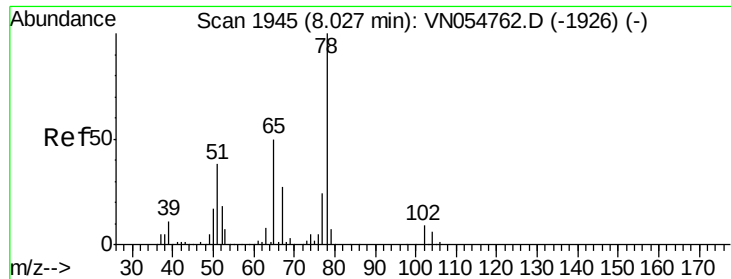


Abundance Ion 56.00 (55.70 to 56.70): VN054762.D (-1804) (-)

Ion 69.00 (68.70 to 69.70): VN054762.D (-1804) (-)

Ion 84.00 (83.70 to 84.70): VN054762.D (-1804) (-)

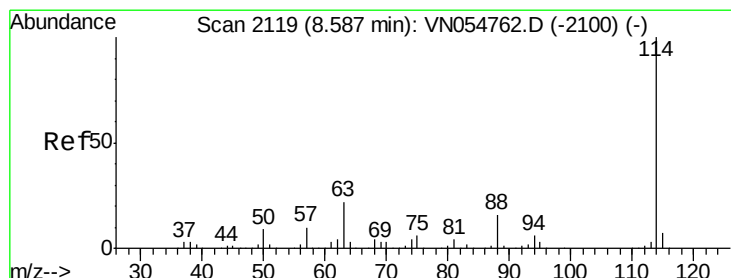
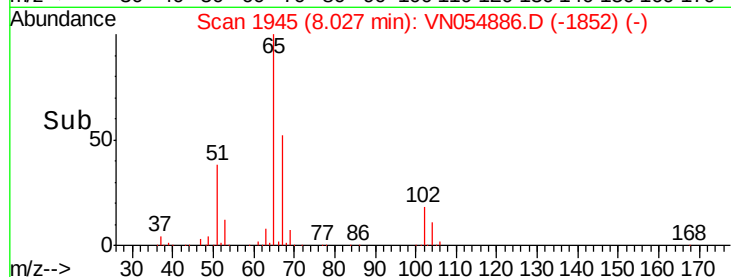
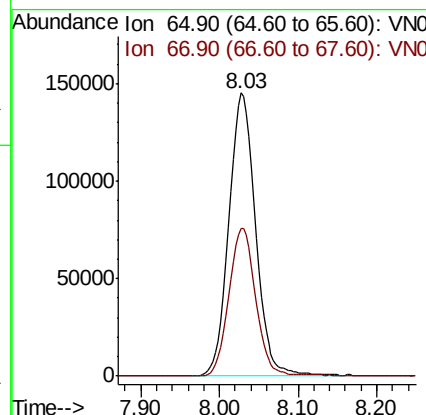
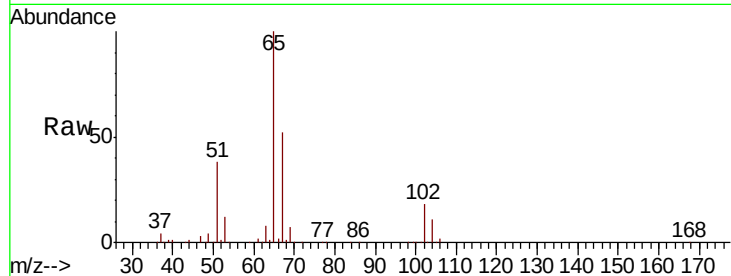




#33
 1,2-Dichloroethane-d4
 Concen: 48.911 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN054886.D
 Acq: 1 Apr 2019 20:20

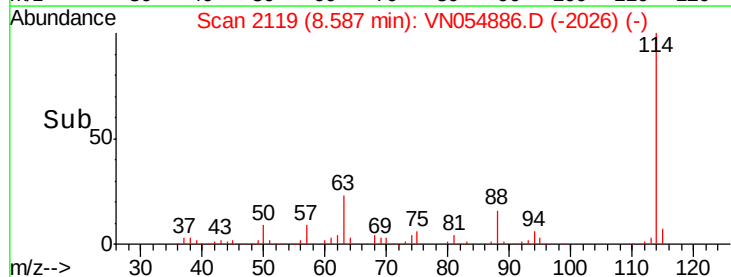
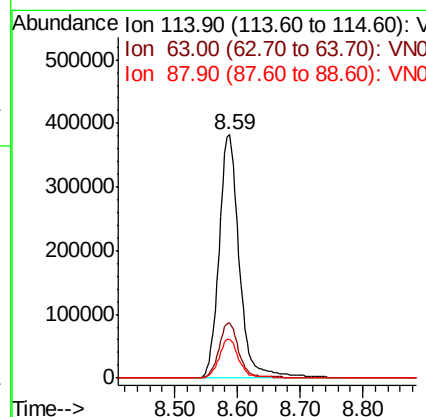
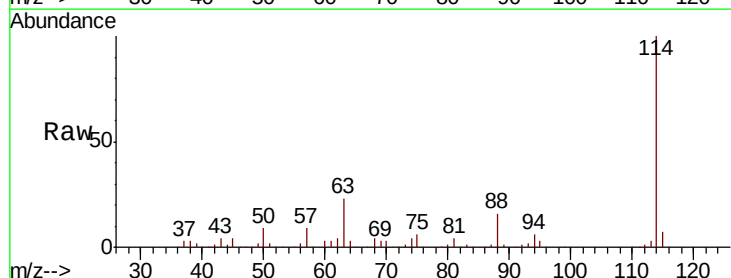
Instrument :
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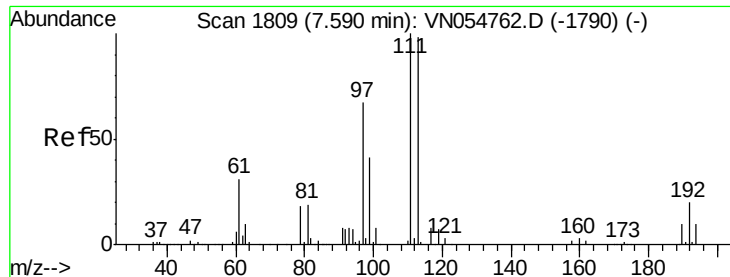
Tot Ion: 65 Resp: 341768
 Ion Ratio Lower Upper
 65 100
 67 51.9 0.0 104.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN054886.D
 Acq: 1 Apr 2019 20:20

Tgt Ion: 114 Resp: 859549
 Ion Ratio Lower Upper
 114 100
 63 22.6 0.0 35.2
 88 16.2 0.0 30.2

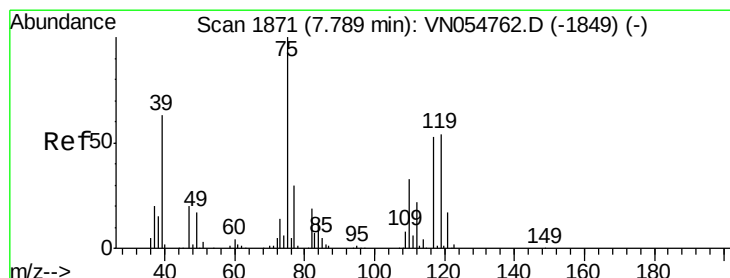
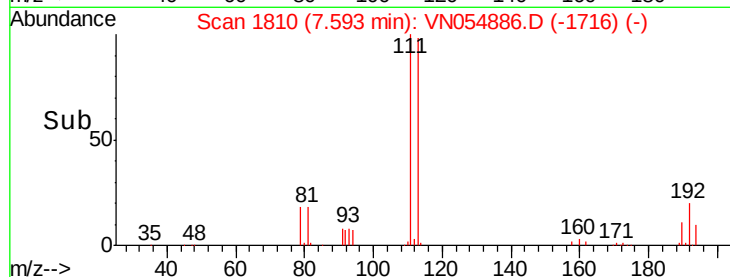
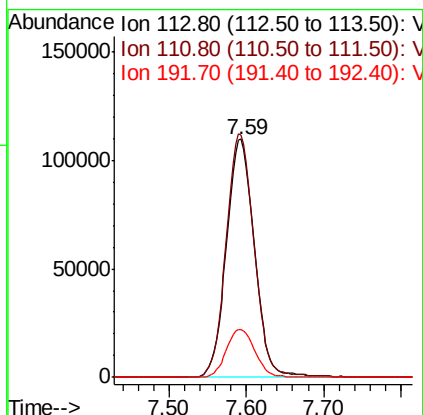
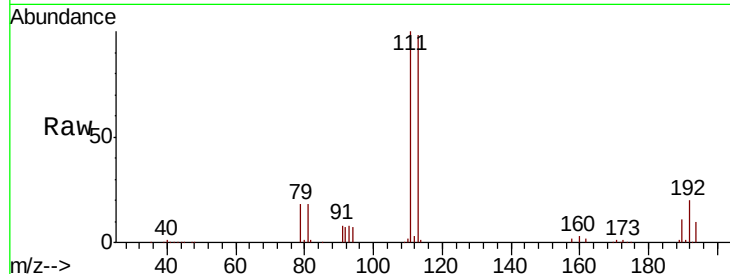




#35
 Dibromofluoromethane
 Concen: 48.112 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN054886.D
 Acq: 1 Apr 2019 20:20

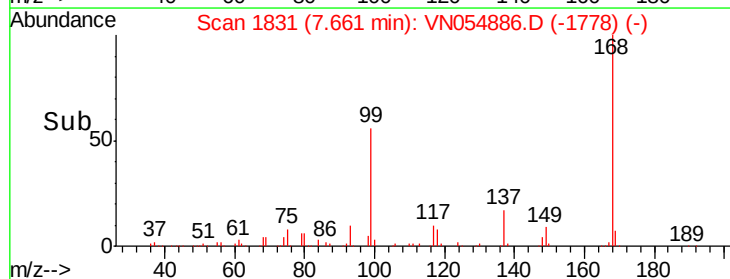
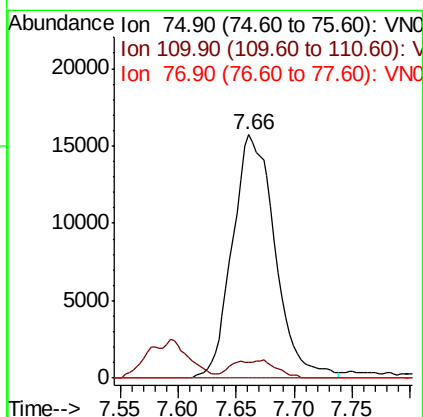
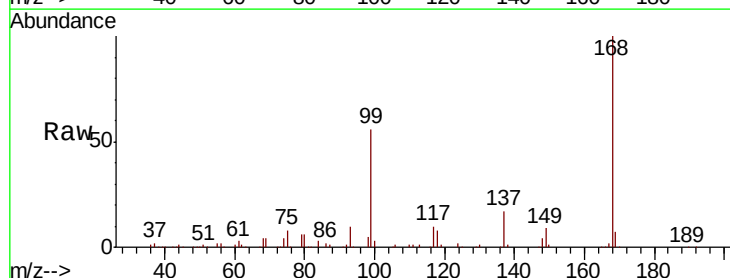
Instrument :
 MSVOA_N
 ClientSampleId :
 SV-28399L

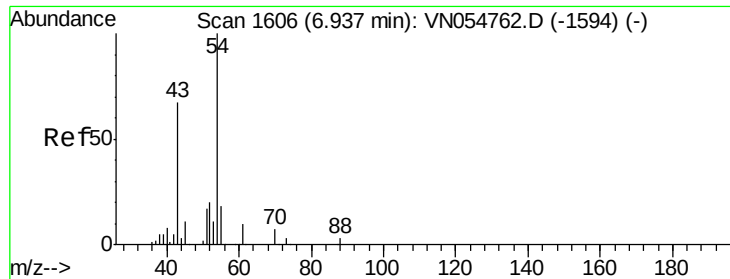
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.3	82.2	123.4
192	20.4	19.2	28.8



#36
 1,1-Dichloropropene
 Concen: 5.026 ug/l
 RT: 7.66 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN054886.D
 Acq: 1 Apr 2019 20:20

Tgt Ion	Ratio	Lower	Upper
75	100		
110	1.7	19.1	57.5#
77	0.0	25.0	37.4#

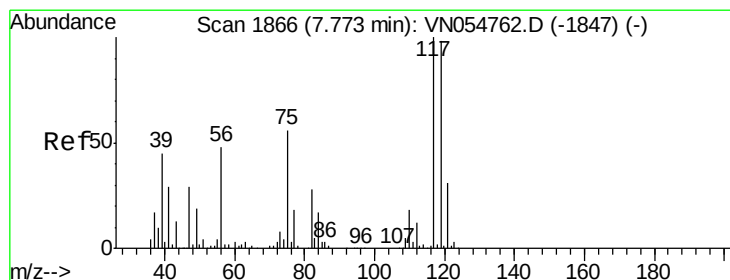
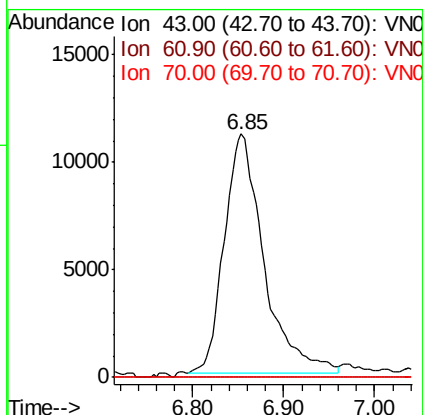
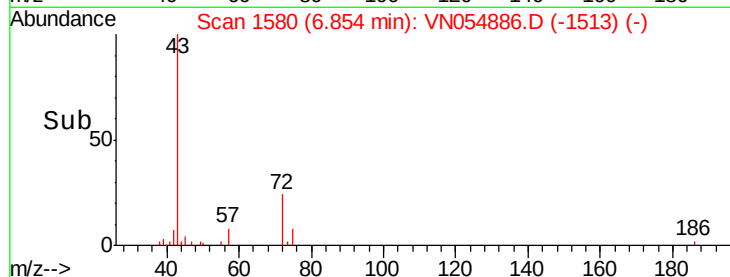
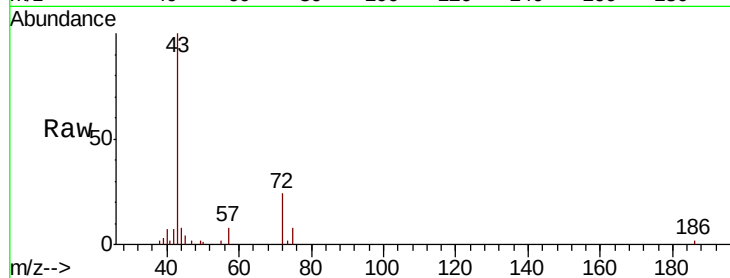




#37
Ethyl Acetate
Concen: 5.771 ug/l
RT: 6.85 min Scan# 1580
Delta R.T. -0.08 min
Lab File: VN054886.D
Acq: 1 Apr 2019 20:20

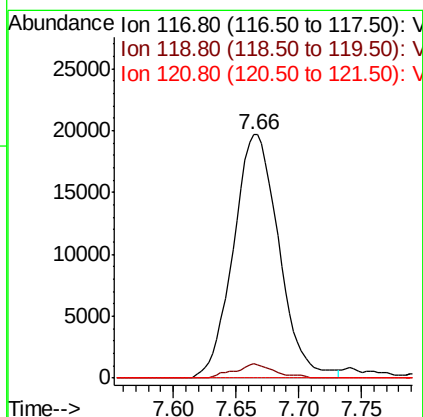
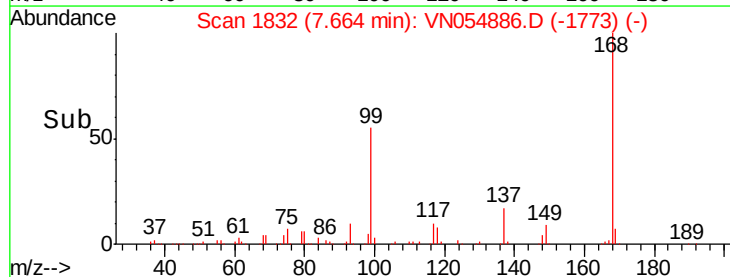
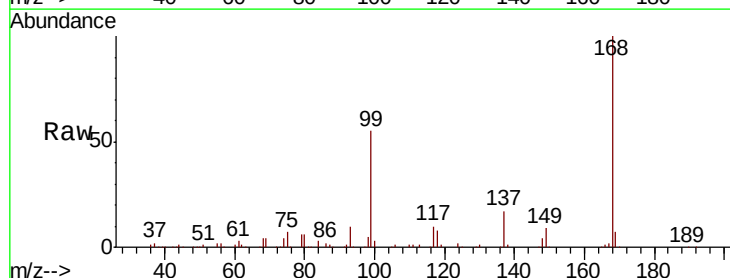
Instrument :
MSVOA_N
ClientSampled :
SV-28399L

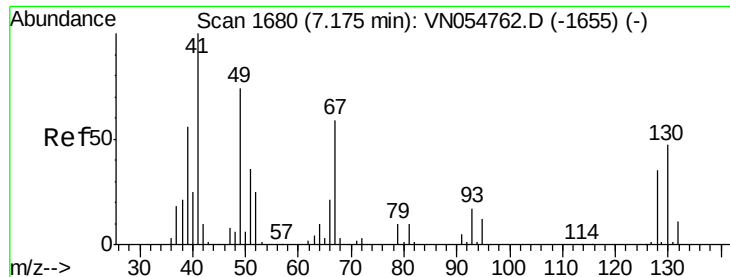
Tot Ion: 43 Resp: 33893
Ion Ratio Lower Upper
43 100
61 0.0 11.8 17.6#
70 0.0 8.4 12.6#



#38
Carbon Tetrachloride
Concen: 6.388 ug/l
RT: 7.66 min Scan# 1832
Delta R.T. -0.11 min
Lab File: VN054886.D
Acq: 1 Apr 2019 20:20

Tgt Ion: 117 Resp: 49692
Ion Ratio Lower Upper
117 100
119 6.0 76.3 114.5#
121 0.0 24.6 36.8#

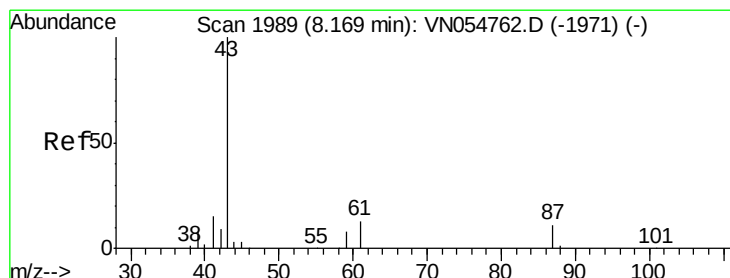
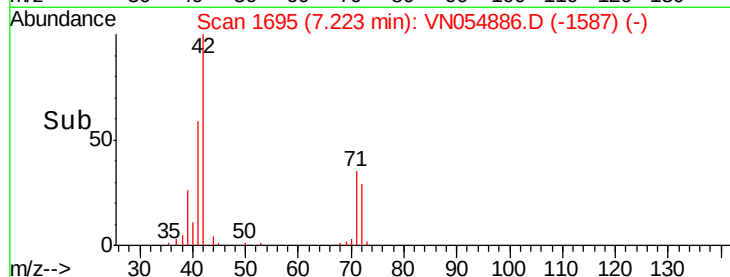
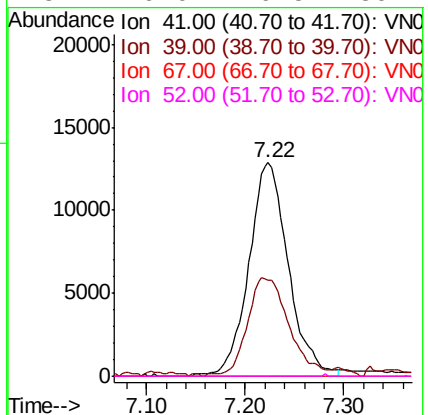
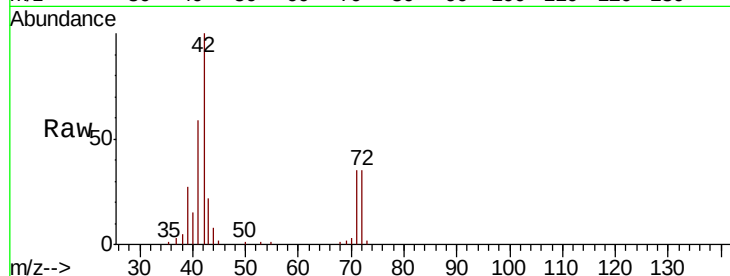




#41
Methacrylonitrile
Concen: 10.799 ug/l
RT: 7.22 min Scan# 1695
Delta R.T. 0.05 min
Lab File: VN054886.D
Acq: 1 Apr 2019 20:20

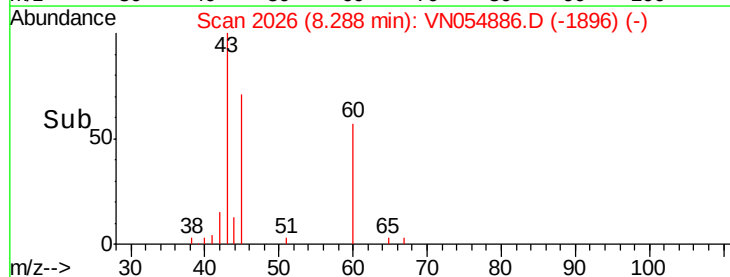
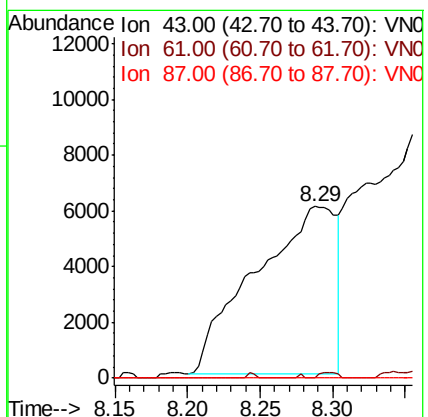
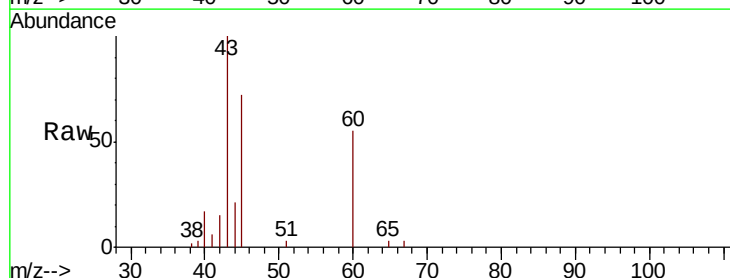
Instrument :
MSVOA_N
ClientSampleId :
SV-28399L

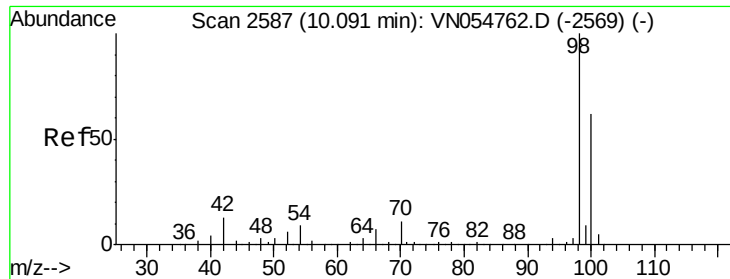
Tot Ion: 41 Resp: 35632
Ion Ratio Lower Upper
41 100
39 48.5 46.8 70.2
67 0.0 67.0 100.4#
52 0.0 26.5 39.7#



#43
Isopropyl Acetate
Concen: 2.441 ug/l
RT: 8.29 min Scan# 2026
Delta R.T. 0.12 min
Lab File: VN054886.D
Acq: 1 Apr 2019 20:20

Tgt Ion: 43 Resp: 23291
Ion Ratio Lower Upper
43 100
61 0.0 15.8 23.8#
87 0.0 12.0 18.0#





#50

Toluene-d8

Concen: 47.972 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN054886.D

Acq: 1 Apr 2019 20:20

Instrument :

MSVOA_N

ClientSampled :

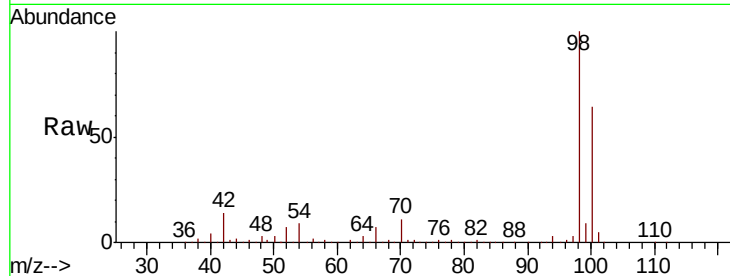
SV-28399L

Tot Ion: 98 Resp: 1022036

Ion Ratio Lower Upper

98 100

100 64.6 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN054762.D (-2569) (-)

Ion 100.00 (99.70 to 100.70): VN054762.D (-2569) (-)

10.09

500000

400000

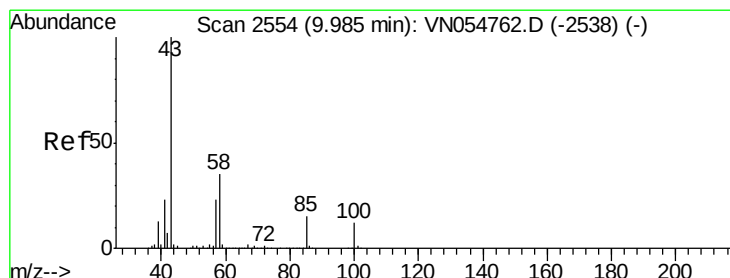
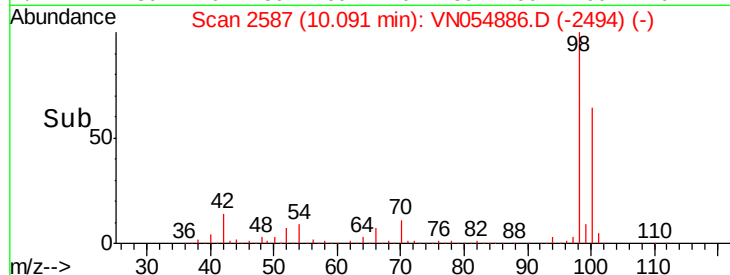
300000

200000

100000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.266 ug/l

RT: 9.99 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN054886.D

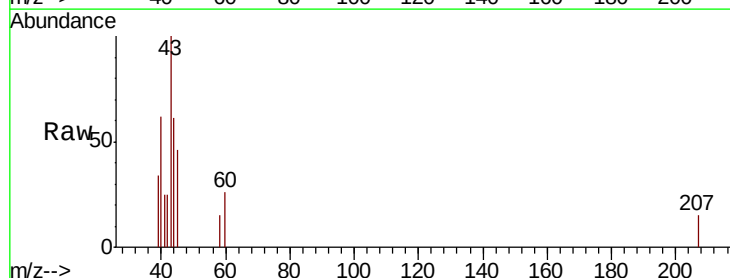
Acq: 1 Apr 2019 20:20

Tgt Ion: 43 Resp: 1428

Ion Ratio Lower Upper

43 100

58 0.0 31.8 47.6#



Abundance Ion 43.00 (42.70 to 43.70): VN054762.D (-2538) (-)

Ion 58.00 (57.70 to 58.70): VN054762.D (-2538) (-)

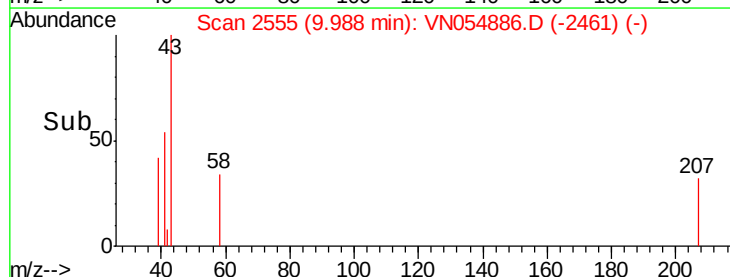
9.99

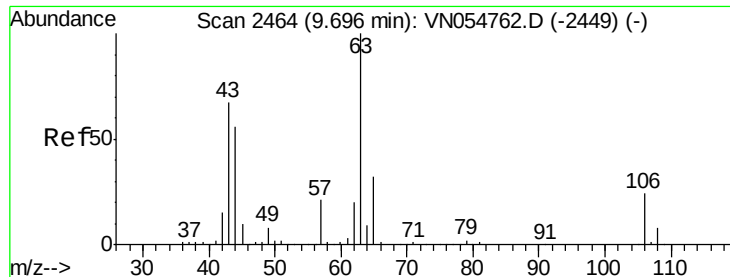
1000

500

0

Time-->

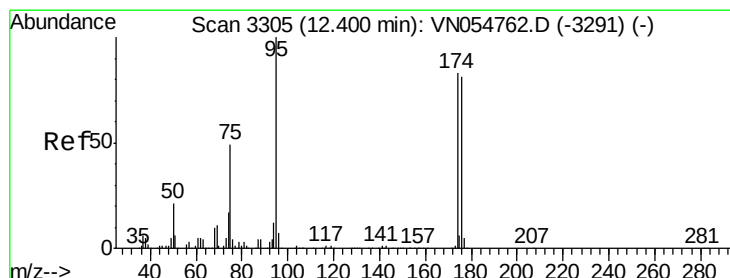
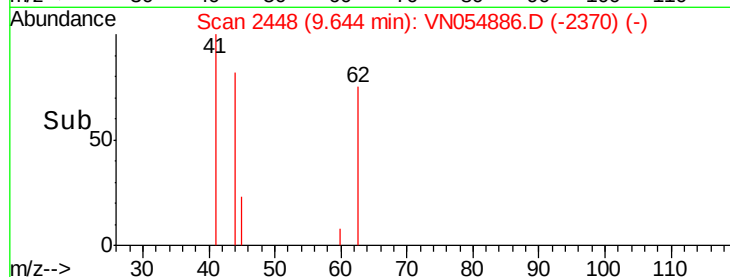
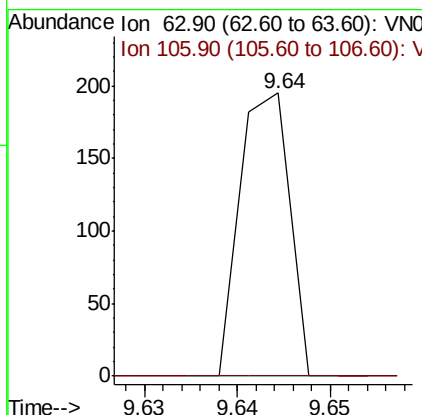
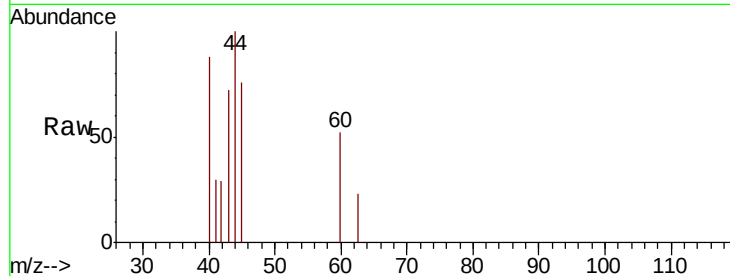




#58
 2-Chloroethyl Vinyl ether
 Concen: 10.379 ug/l
 RT: 9.64 min Scan# 2448
 Delta R.T. -0.05 min
 Lab File: VN054886.D
 Acq: 1 Apr 2019 20:20

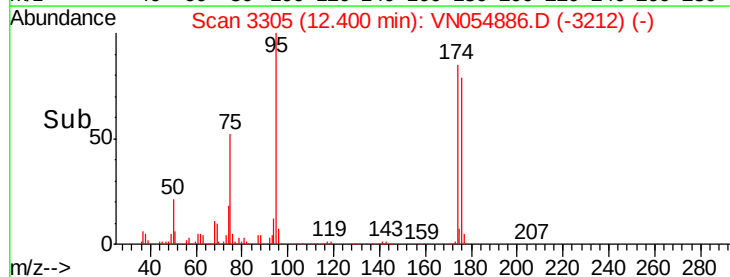
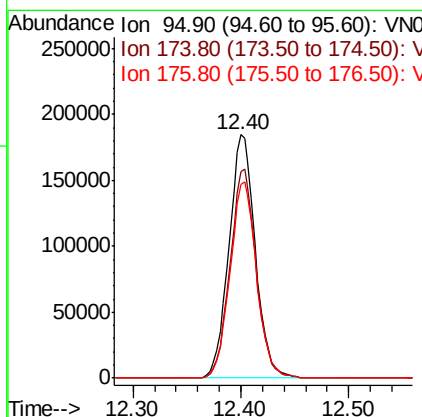
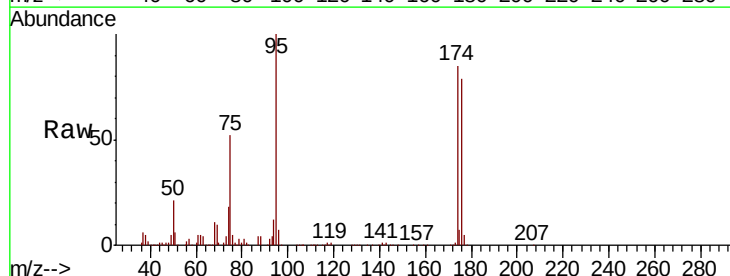
Instrument :
 MSVOA_N
 ClientSampleId :
 SV-28399L

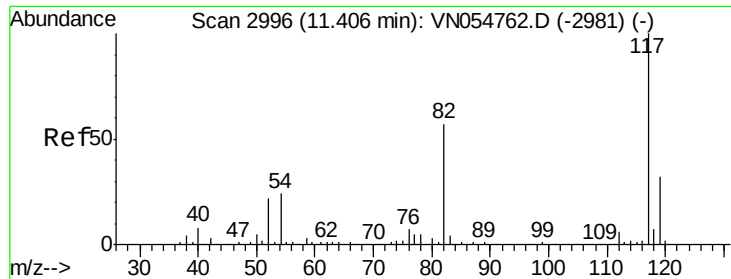
Tot Ion: 63 Resp: 73
 Ion Ratio Lower Upper
 63 100
 106 0.0 24.4 36.6#



#62
 4-Bromofluorobenzene
 Concen: 44.396 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. -0.00 min
 Lab File: VN054886.D
 Acq: 1 Apr 2019 20:20

Tgt Ion: 95 Resp: 314567
 Ion Ratio Lower Upper
 95 100
 174 85.2 0.0 191.0
 176 81.1 0.0 187.4

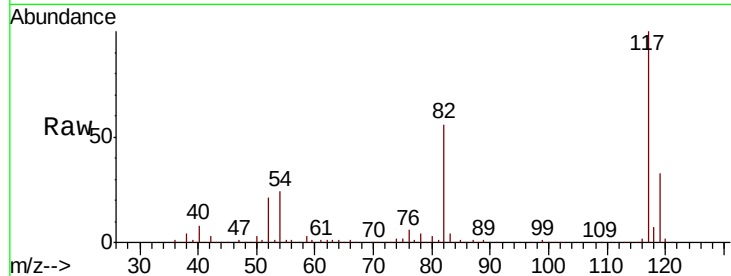




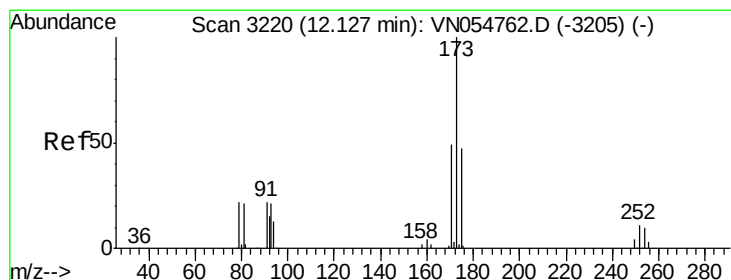
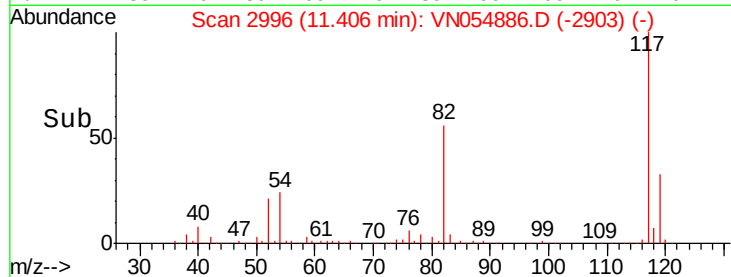
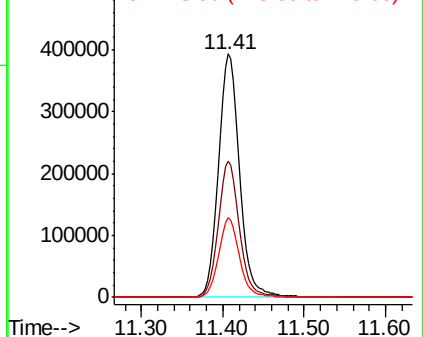
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN054886.D
Acq: 1 Apr 2019 20:20

Instrument :
MSVOA_N
ClientSampled :
SV-28399L

Tot Ion:117 Resp: 724173
Ion Ratio Lower Upper
117 100
82 56.0 40.0 60.0
119 32.6 25.8 38.6

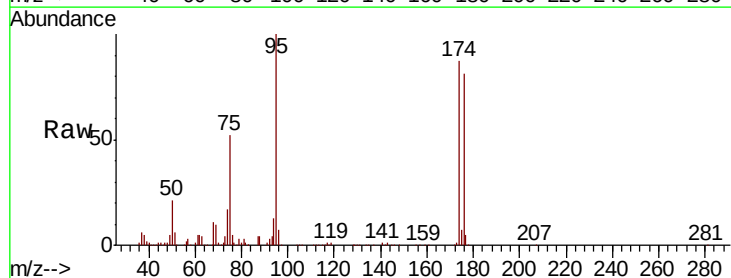


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

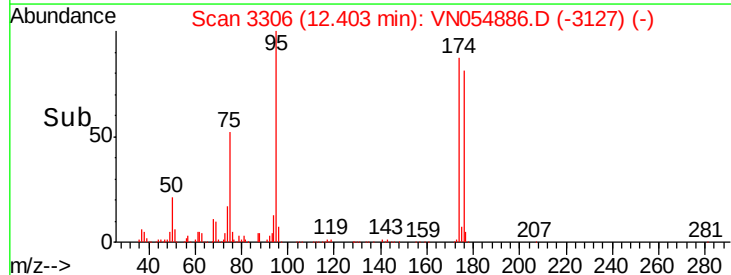
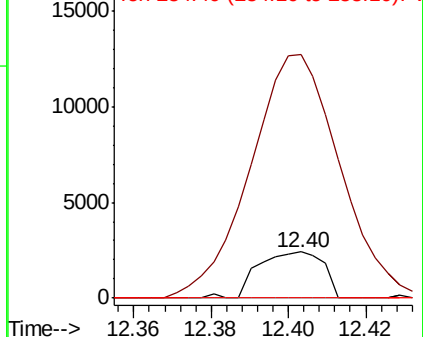


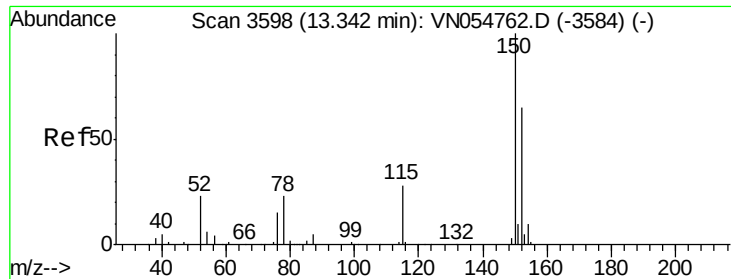
#71
Bromoform
Concen: 0.907 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN054886.D
Acq: 1 Apr 2019 20:20

Tgt Ion:173 Resp: 2821
Ion Ratio Lower Upper
173 100
175 638.1 24.4 73.2#
254 0.0 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. -0.00 min

Lab File: VN054886.D

Acq: 1 Apr 2019 20:20

Instrument :

MSVOA_N

ClientSampled :

SV-28399L

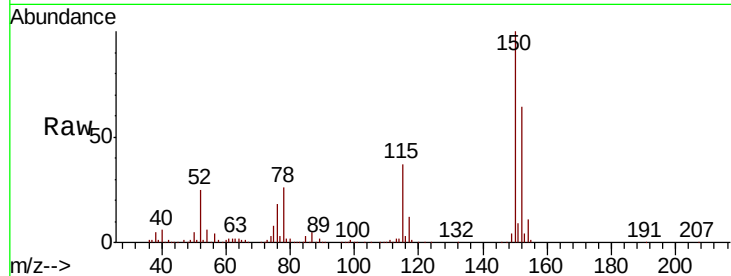
Tot Ion:152 Resp: 253594

Ion Ratio Lower Upper

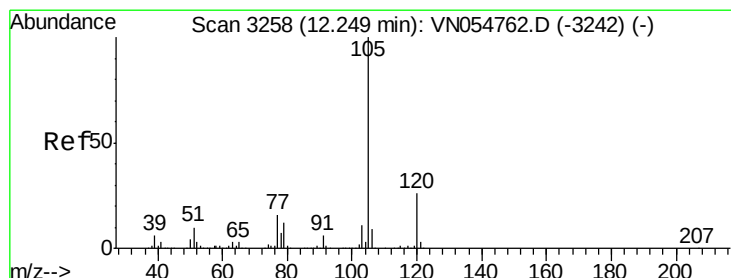
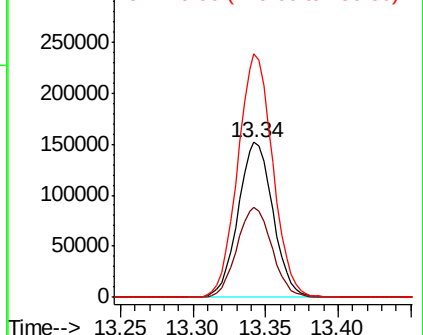
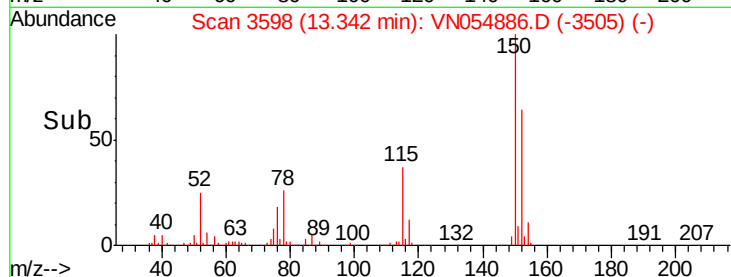
152 100

115 58.5 27.2 81.6

150 157.6 0.0 349.2



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



#73

Isopropylbenzene

Concen: 0.765 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. -0.00 min

Lab File: VN054886.D

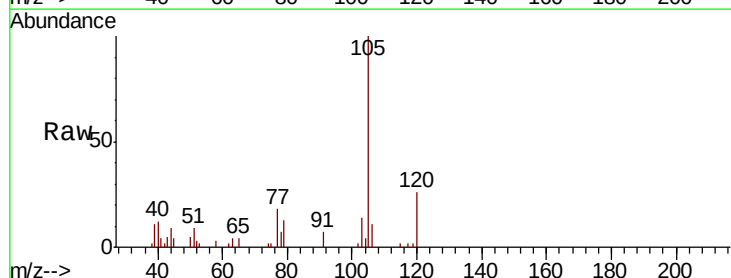
Acq: 1 Apr 2019 20:20

Tgt Ion:105 Resp: 15854

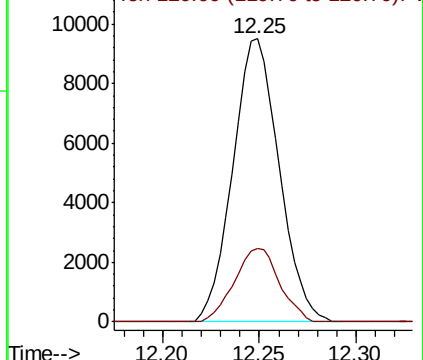
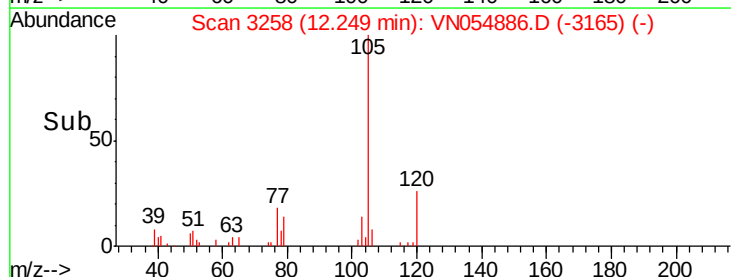
Ion Ratio Lower Upper

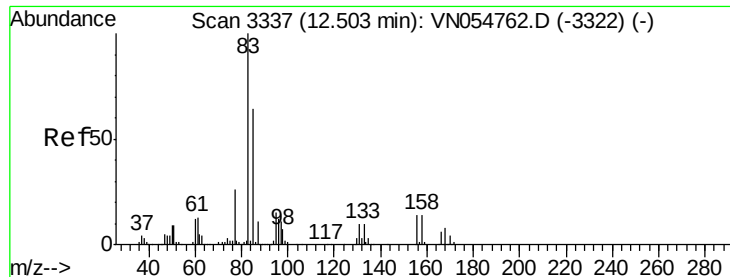
105 100

120 25.2 13.8 41.3



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.40 min Scan# 3306

Delta R.T. -0.10 min

Lab File: VN054886.D

Acq: 1 Apr 2019 20:20

Instrument :

MSVOA_N

ClientSampleId :

SV-28399L

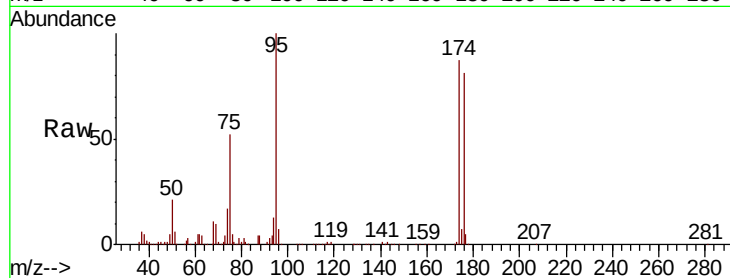
Tot Ion: 83 Resp: 301

Ion Ratio Lower Upper

83 100

131 117.6 5.8 17.4#

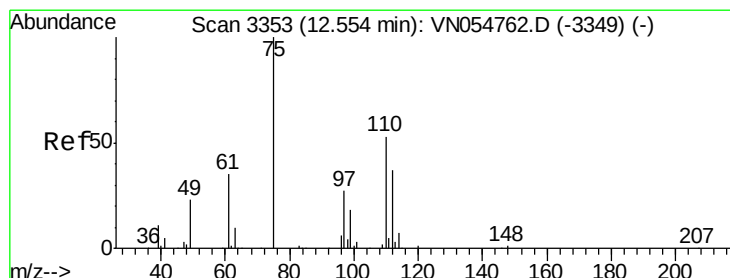
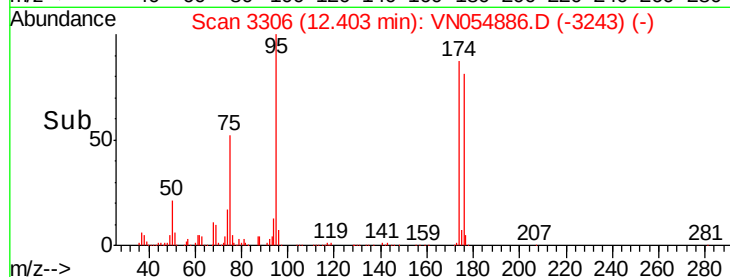
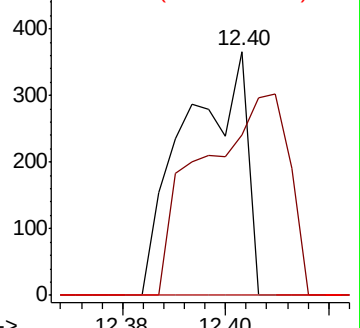
85 0.0 32.2 96.6#



Abundance Ion 82.90 (82.60 to 83.60): VNO

Ion 130.80 (130.50 to 131.50): VNO

Ion 84.90 (84.60 to 85.60): VNO



#76

1,2,3-Trichloropropane

Concen: 37.405 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN054886.D

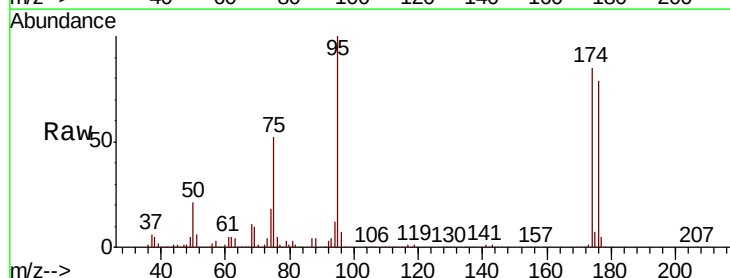
Acq: 1 Apr 2019 20:20

Tgt Ion: 75 Resp: 164789

Ion Ratio Lower Upper

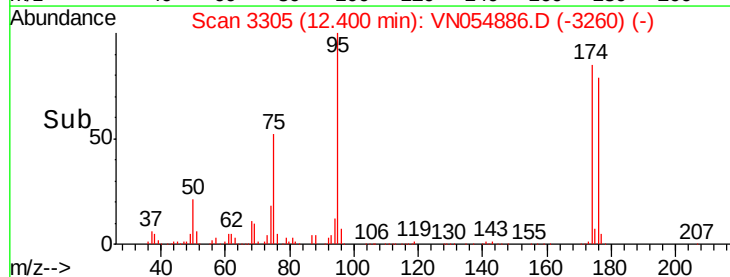
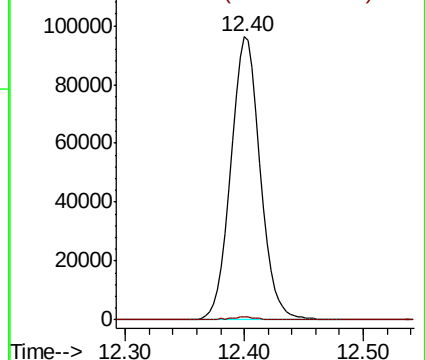
75 100

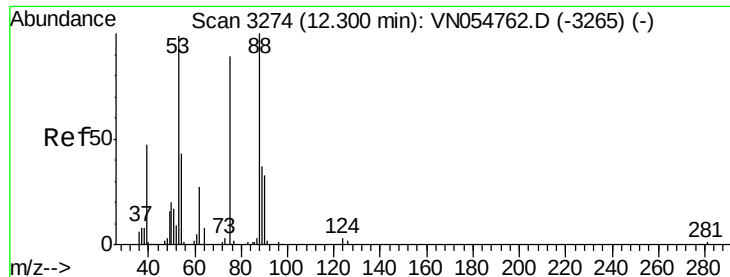
77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO

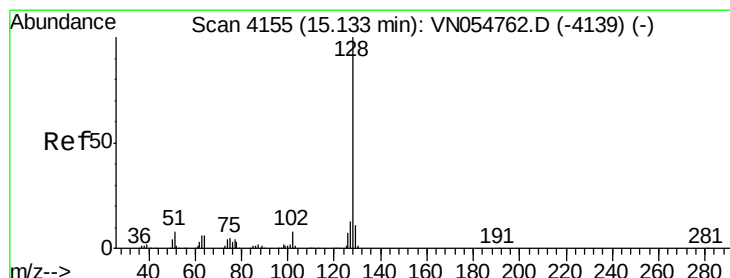
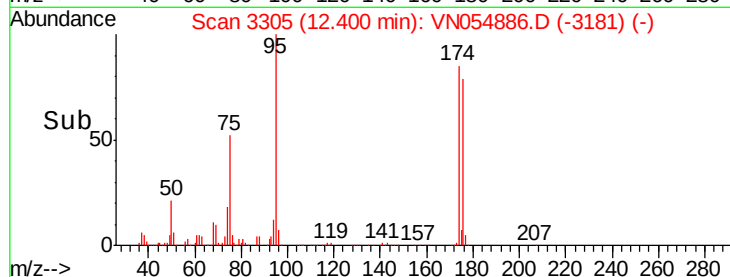
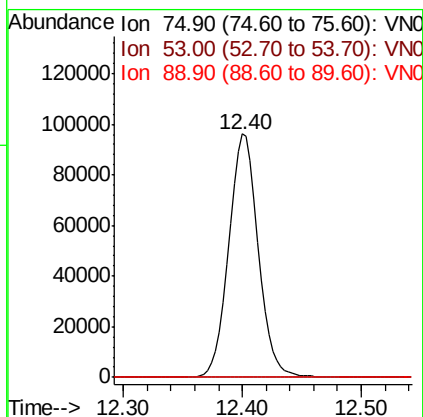
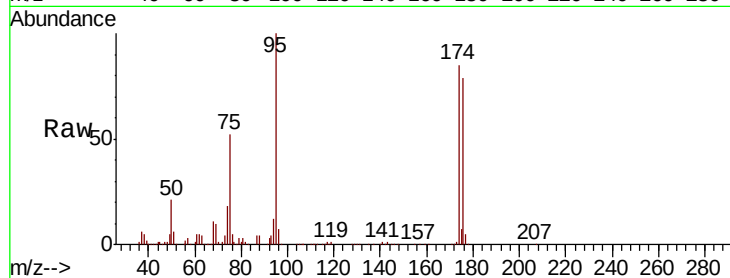




#81
trans-1,4-Dichloro-2-butene
Concen: 145.497 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.10 min
Lab File: VN054886.D
Acq: 1 Apr 2019 20:20

Instrument :
MSVOA_N
ClientSampleId :
SV-28399L

Tot Ion: 75 Resp: 164789
Ion Ratio Lower Upper
75 100
53 0.0 76.2 114.2#
89 0.0 39.2 58.8#



#95
Naphthalene
Concen: 11.941 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. -0.00 min
Lab File: VN054886.D
Acq: 1 Apr 2019 20:20

Tgt Ion:128 Resp: 109142
Ion Ratio Lower Upper
128 100
127 13.9 10.1 15.1
129 11.5 8.7 13.1

