

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111419\
 Data File : VN059243.D
 Acq On : 14 Nov 2019 18:40
 Operator : JC/SP
 Sample : K5563-18
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Nov 15 06:33:52 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N110619W.M
 Quant Title : SW846 8260
 QLast Update : Thu Nov 07 04:00:41 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	447270	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	685854	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	606471	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	212059	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.01	65	286382	52.09	ug/l	0.00
Spiked Amount			Recovery	=	104.18%	
35) Dibromofluoromethane	7.57	113	220260	53.78	ug/l	0.00
Spiked Amount			Recovery	=	107.56%	
50) Toluene-d8	10.08	98	886604	54.96	ug/l	0.00
Spiked Amount			Recovery	=	109.92%	
62) 4-Bromofluorobenzene	12.40	95	276522	47.54	ug/l	0.00
Spiked Amount			Recovery	=	95.08%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
14) Allyl chloride	4.52	41	10298	1.202	ug/l #	28
16) Acetone	3.80	43	15724	5.500	ug/l	96
17) Carbon Disulfide	4.03	76	4198	0.324	ug/l #	84
18) Methyl Acetate	4.30	43	4846	0.714	ug/l	93
20) Methylene Chloride	4.53	84	266716	53.546	ug/l	98
25) 2-Butanone	6.82	43	2108	0.559	ug/l #	50
31) Cyclohexane	7.64	56	8914	1.041	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	33659	5.250	ug/l #	49
38) Carbon Tetrachloride	7.64	117	41465	6.498	ug/l #	16
43) Isopropyl Acetate	8.15	43	92516	8.137	ug/l #	91
45) 1,2-Dichloropropane	9.26	63	2015	0.384	ug/l #	44
48) Methyl methacrylate	9.17	41	5453	1.072	ug/l #	14
49) 1,4-Dioxane	9.26	88	67	0.741	ug/l #	1
51) 4-Methyl-2-Pentanone	9.97	43	7324	1.138	ug/l	88
54) cis-1,3-Dichloropropene	9.89	75	37031	4.567	ug/l #	64
56) Ethyl methacrylate	10.54	69	1420	2.048	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	5486	0.681	ug/l #	42
59) 2-Hexanone	10.76	43	78369	15.871	ug/l #	53
65) Chlorobenzene	11.43	112	8285	0.701	ug/l	98
71) Bromoform	12.39	173	798	0.231	ug/l #	1
74) N-amyl acetate	12.03	43	2765	0.423	ug/l #	43
76) 1,2,3-Trichloropropane	12.40	75	137725	28.527	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	137725	75.348	ug/l #	13
93) 1,2,4-Trichlorobenzene	15.17	180	35	3.055	ug/l #	12
95) Naphthalene	15.13	128	3229	3.321	ug/l #	88

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.00 min

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MSVOA_N

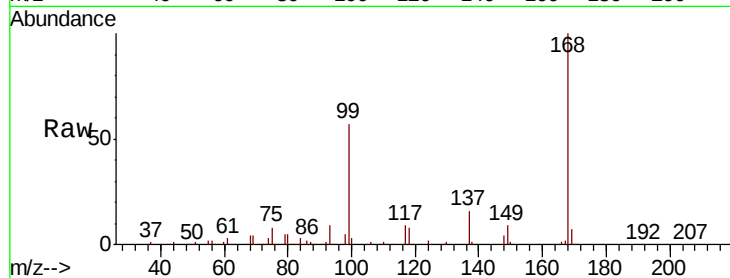
ClientSampleId :

Tot Ion:168 Resp: 447270

Ion Ratio Lower Upper

168 100

99 56.6 45.7 68.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.64

200000

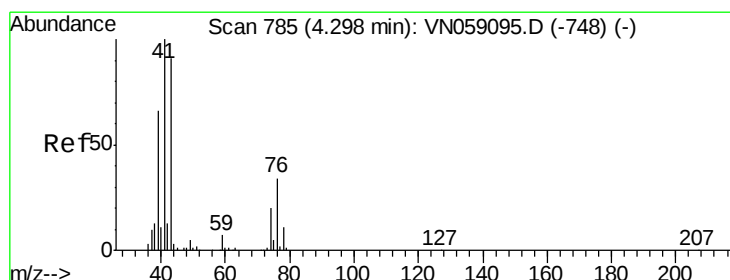
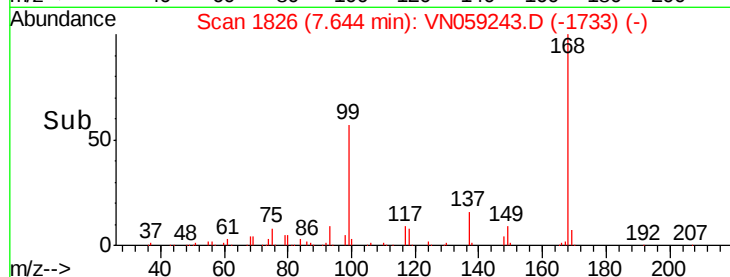
150000

100000

50000

0

Time--> 7.50 7.60 7.70 7.80



#14

Allyl chloride

Concen: 1.202 ug/l

RT: 4.52 min Scan# 855

Delta R.T. 0.22 min

Lab File: VN059243.D

Acq: 14 Nov 2019 18:40

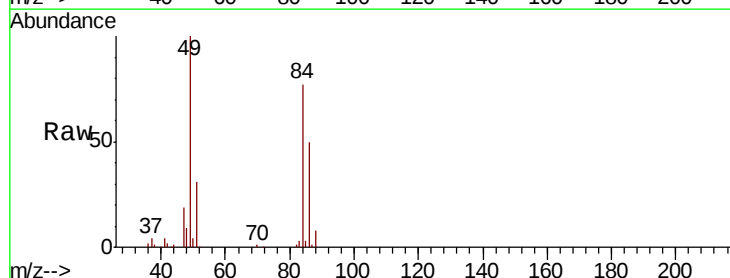
Tgt Ion: 41 Resp: 10298

Ion Ratio Lower Upper

41 100

39 0.0 49.1 73.7#

76 0.0 24.9 37.3#



Abundance Ion 41.00 (40.70 to 41.70): VN

Ion 39.00 (38.70 to 39.70): VN

Ion 75.90 (75.60 to 76.60): VN

4.52

5000

4000

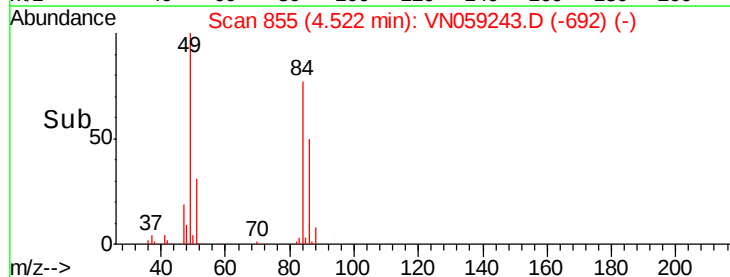
3000

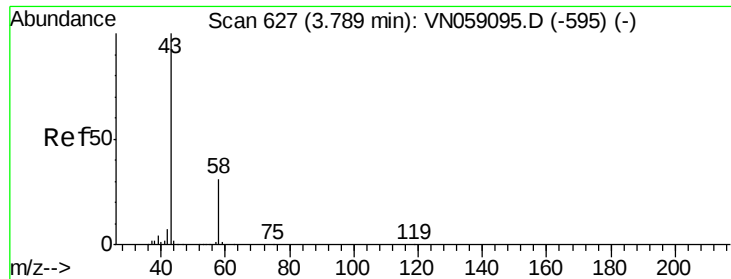
2000

1000

0

Time--> 4.45 4.50 4.55 4.60

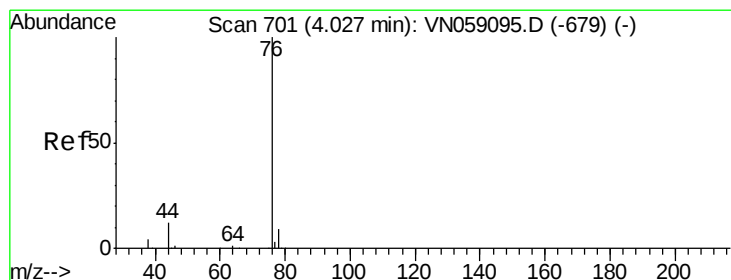
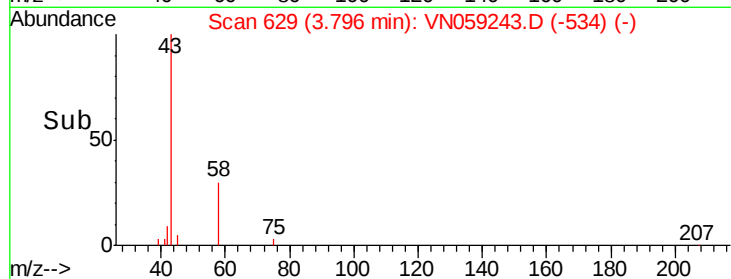
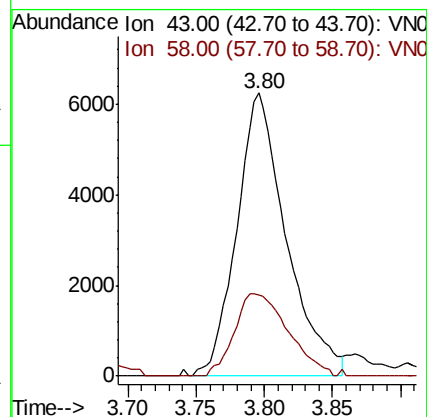
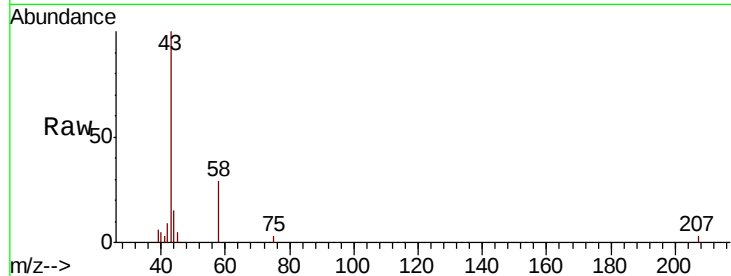




#16
Acetone
Concen: 5.500 ug/l
RT: 3.80 min Scan# 629
Delta R.T. 0.01 min
Lab File: VN059243.D
Acq: 14 Nov 2019 18:40

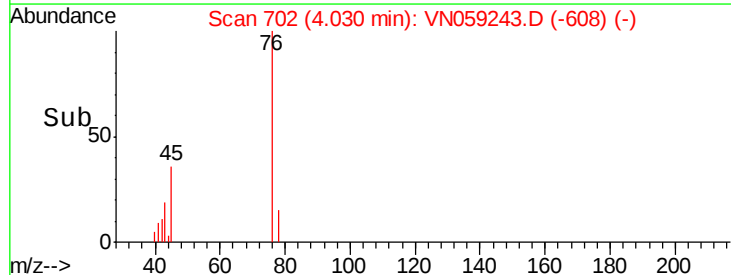
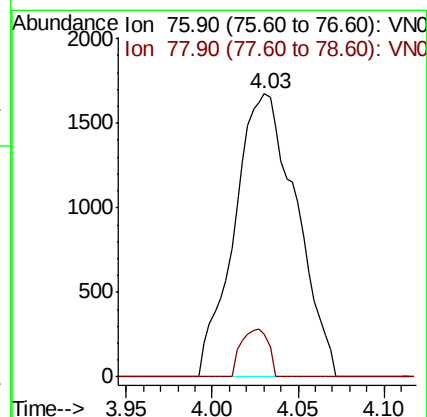
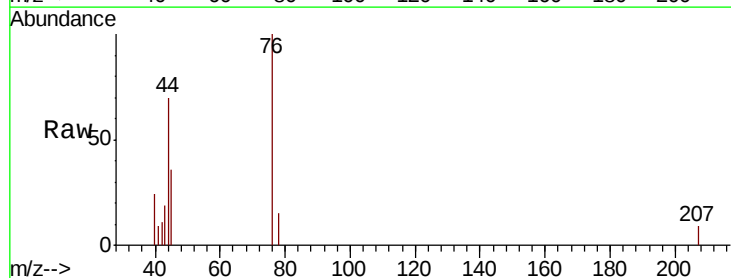
Instrument :
MSVOA_N
ClientSampleId :

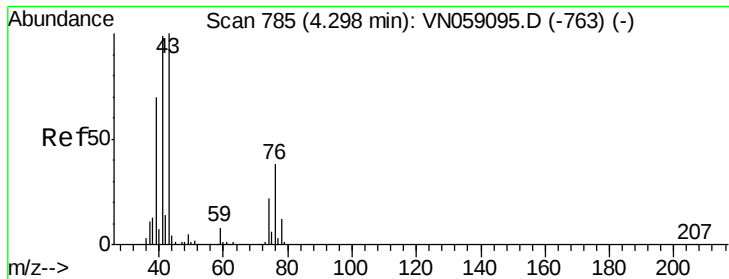
Tot Ion: 43 Resp: 15724
Ion Ratio Lower Upper
43 100
58 28.7 24.9 37.3



#17
Carbon Disulfide
Concen: 0.324 ug/l
RT: 4.03 min Scan# 702
Delta R.T. 0.00 min
Lab File: VN059243.D
Acq: 14 Nov 2019 18:40

Tgt Ion: 76 Resp: 4198
Ion Ratio Lower Upper
76 100
78 14.9 7.4 11.0#

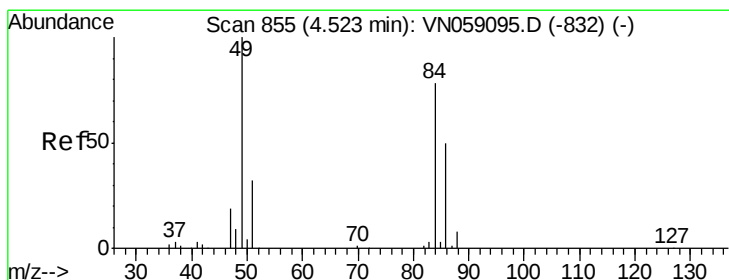
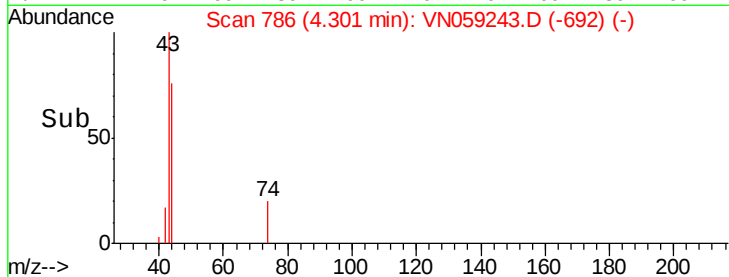
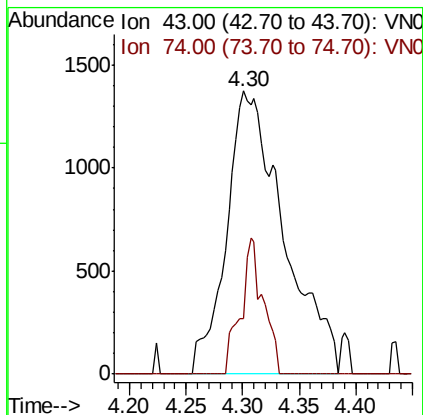
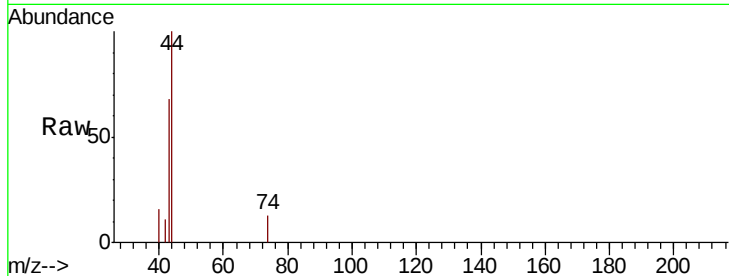




#18
Methyl Acetate
Concen: 0.714 ug/l
RT: 4.30 min Scan# 786
Delta R.T. 0.00 min
Lab File: VN059243.D
Acq: 14 Nov 2019 18:40

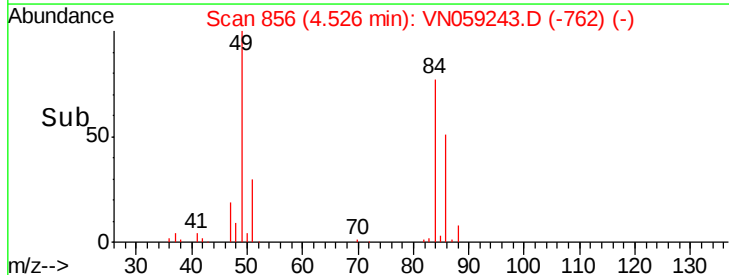
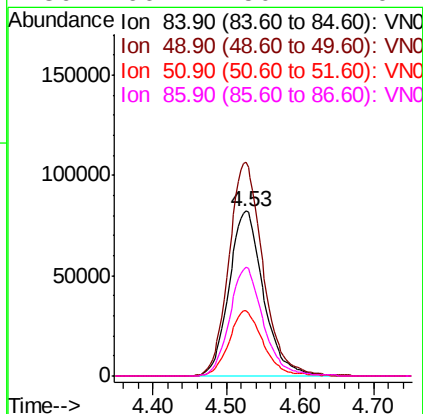
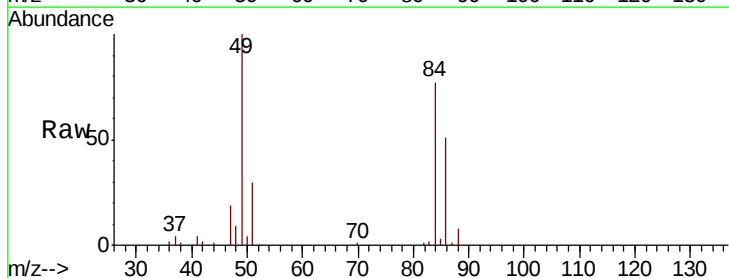
Instrument :
MSVOA_N
ClientSampleId :

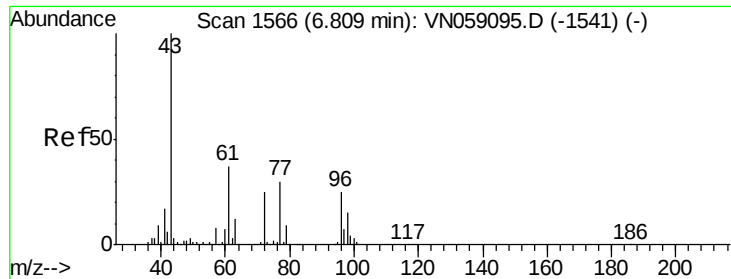
Tot Ion: 43 Resp: 4846
Ion Ratio Lower Upper
43 100
74 19.1 17.8 26.8



#20
Methylene Chloride
Concen: 53.546 ug/l
RT: 4.53 min Scan# 856
Delta R.T. 0.00 min
Lab File: VN059243.D
Acq: 14 Nov 2019 18:40

Tgt Ion: 84 Resp: 266716
Ion Ratio Lower Upper
84 100
49 129.5 102.0 153.0
51 39.3 32.2 48.2
86 66.1 50.7 76.1

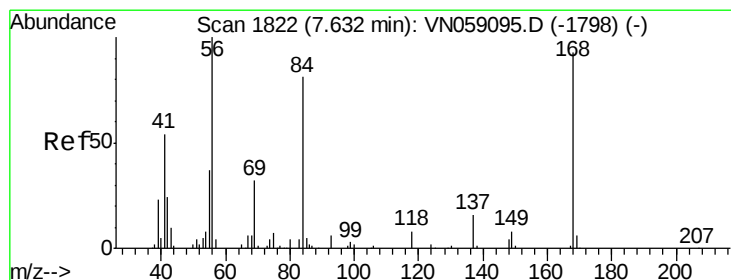
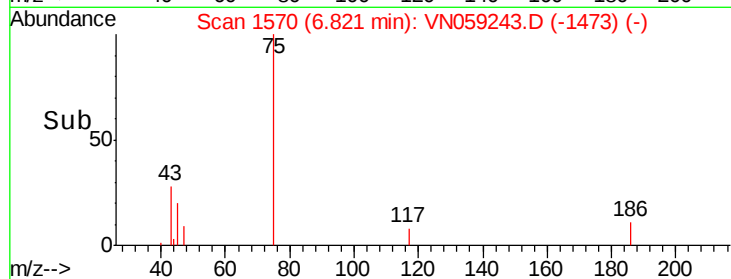
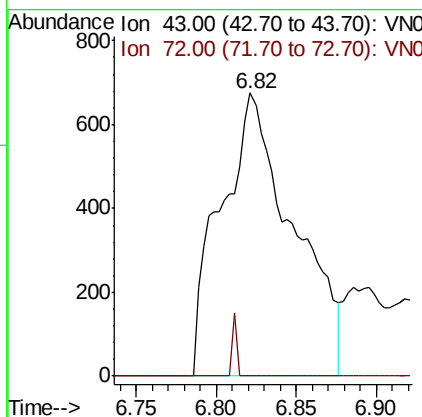
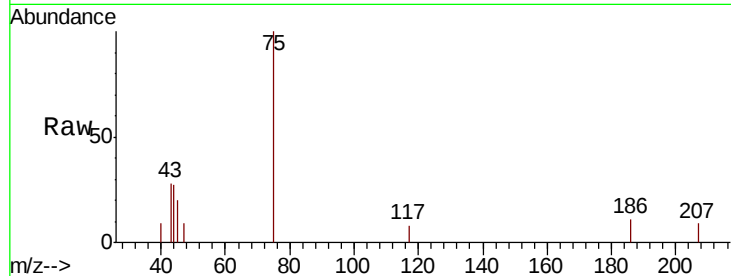




#25
2-Butanone
Concen: 0.559 ug/l
RT: 6.82 min Scan# 1570
Delta R.T. 0.01 min
Lab File: VN059243.D
Acq: 14 Nov 2019 18:40

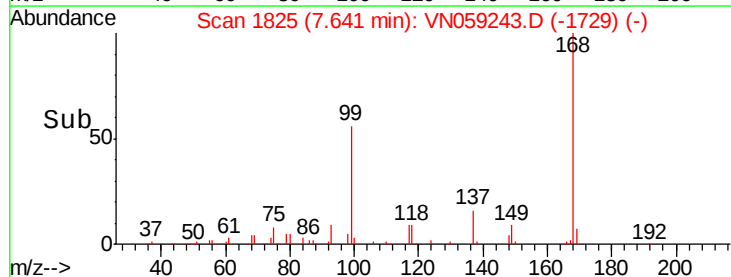
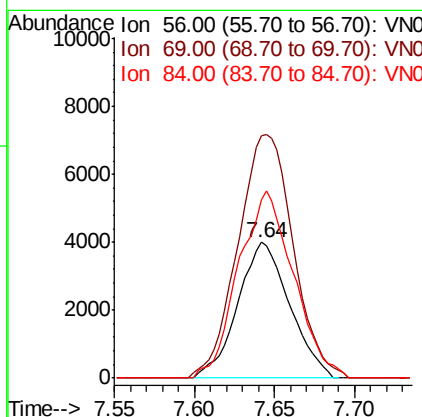
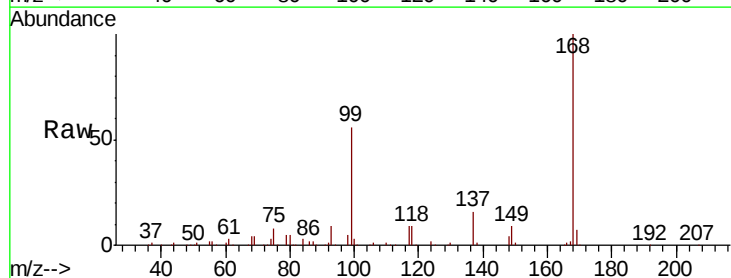
Instrument :
MSVOA_N
ClientSampled :

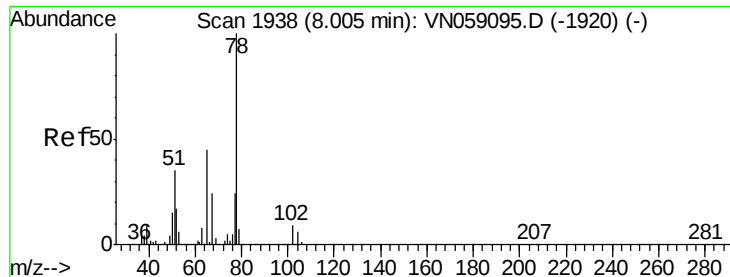
Tot Ion: 43 Resp: 2108
Ion Ratio Lower Upper
43 100
72 0.0 20.3 30.5#



#31
Cyclohexane
Concen: 1.041 ug/l
RT: 7.64 min Scan# 1825
Delta R.T. 0.01 min
Lab File: VN059243.D
Acq: 14 Nov 2019 18:40

Tgt Ion: 56 Resp: 8914
Ion Ratio Lower Upper
56 100
69 178.0 25.8 38.8#
84 131.2 65.0 97.4#

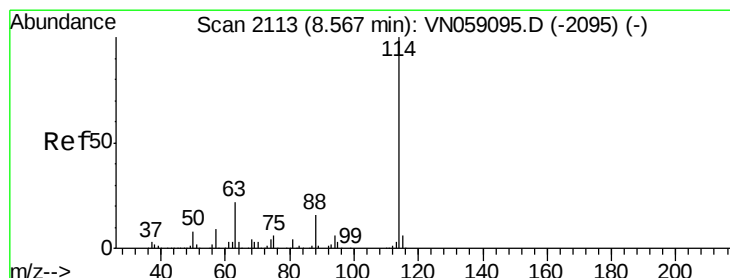
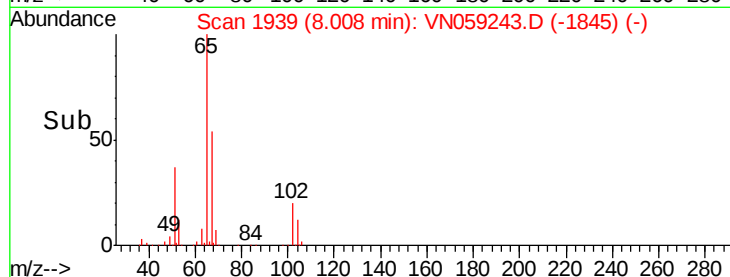
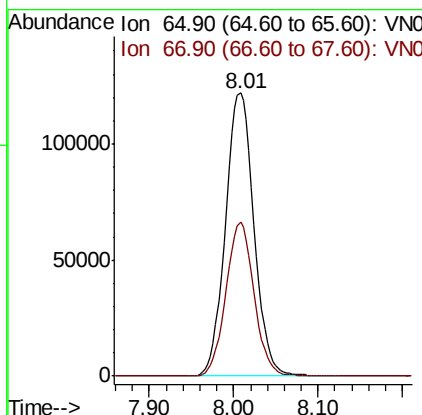
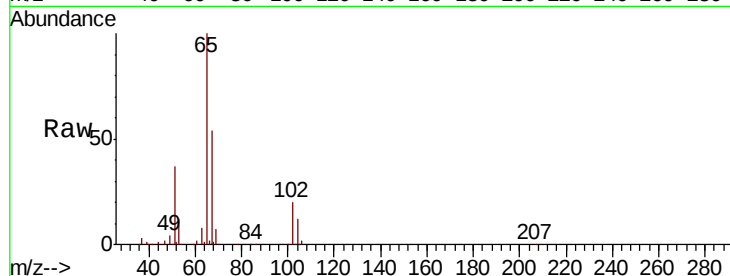




#33
 1,2-Dichloroethane-d4
 Concen: 52.087 ug/l
 RT: 8.01 min Scan# 1939
 Delta R.T. 0.00 min
 Lab File: VN059243.D
 Acq: 14 Nov 2019 18:40

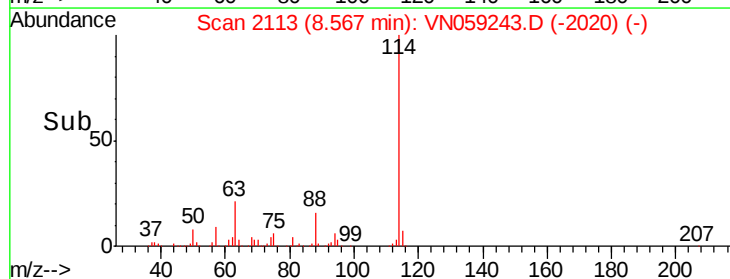
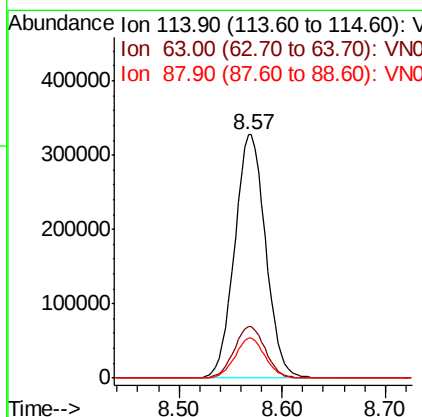
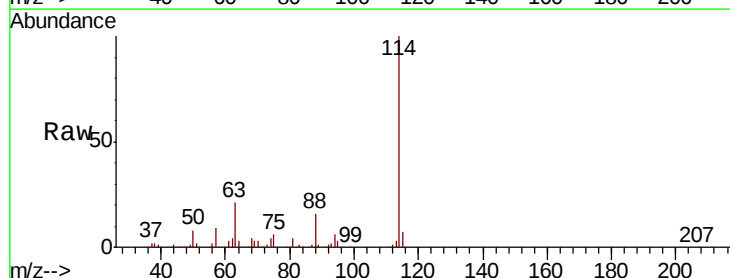
Instrument :
 MSVOA_N
 ClientSampled :

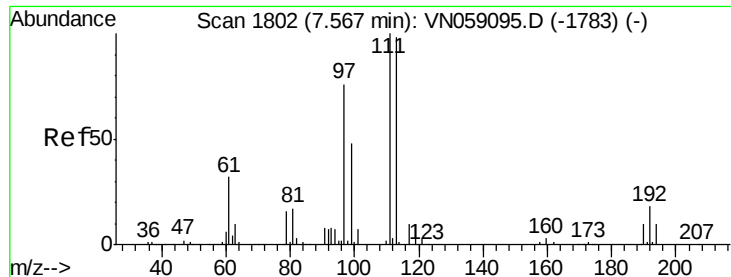
Tot Ion: 65 Resp: 286382
 Ion Ratio Lower Upper
 65 100
 67 53.5 0.0 107.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. -0.00 min
 Lab File: VN059243.D
 Acq: 14 Nov 2019 18:40

Tgt Ion: 114 Resp: 685854
 Ion Ratio Lower Upper
 114 100
 63 21.3 0.0 43.4
 88 16.2 0.0 32.2

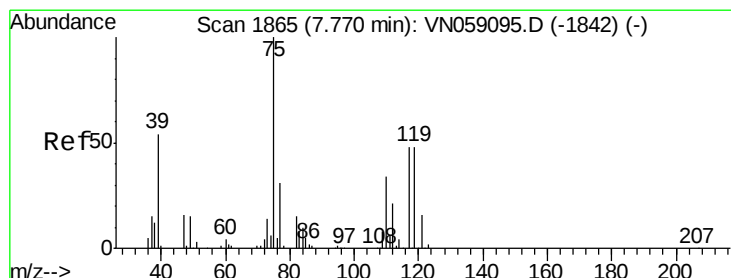
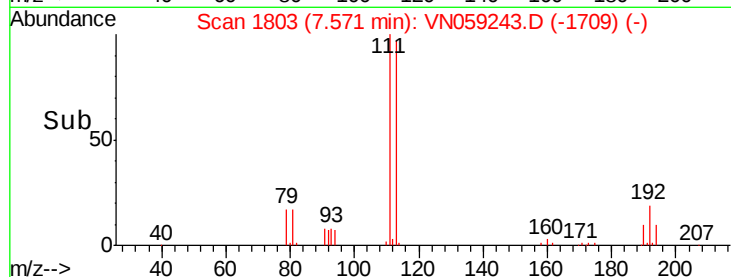
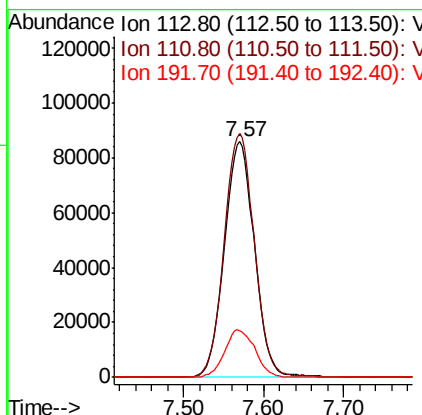
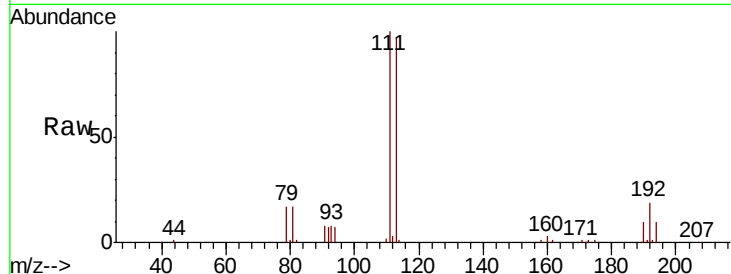




#35
 Dibromofluoromethane
 Concen: 53.785 ug/l
 RT: 7.57 min Scan# 1803
 Delta R.T. 0.00 min
 Lab File: VN059243.D
 Acq: 14 Nov 2019 18:40

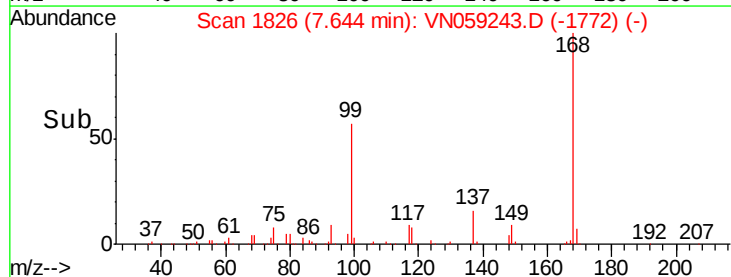
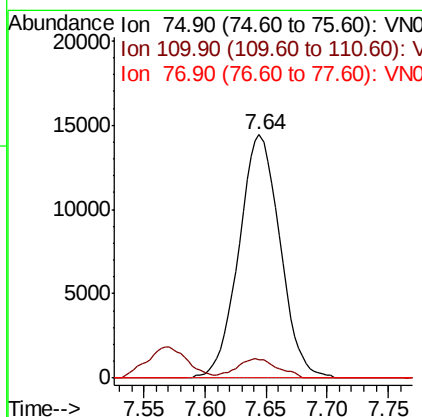
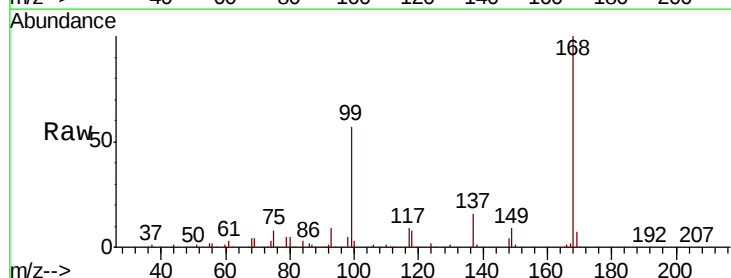
Instrument :
 MSVOA_N
 ClientSampleId :

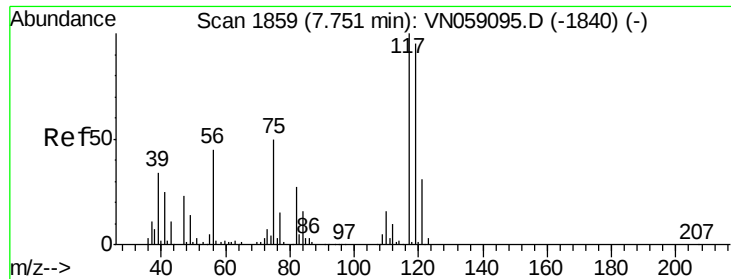
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.1	82.8	124.2
192	20.4	16.1	24.1



#36
 1,1-Dichloropropene
 Concen: 5.250 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. -0.13 min
 Lab File: VN059243.D
 Acq: 14 Nov 2019 18:40

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.0	17.1	51.2#
77	0.0	24.8	37.2#





#38

Carbon Tetrachloride

Concen: 6.498 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.11 min

Lab File: VN059243.D

Acq: 14 Nov 2019 18:40

Instrument :

MSVOA_N

ClientSampleId :

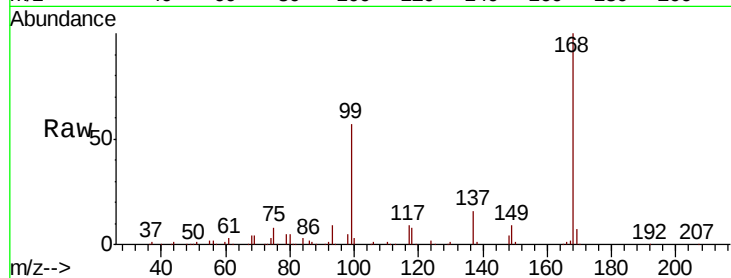
Tot Ion:117 Resp: 41465

Ion Ratio Lower Upper

117 100

119 4.6 75.6 113.4#

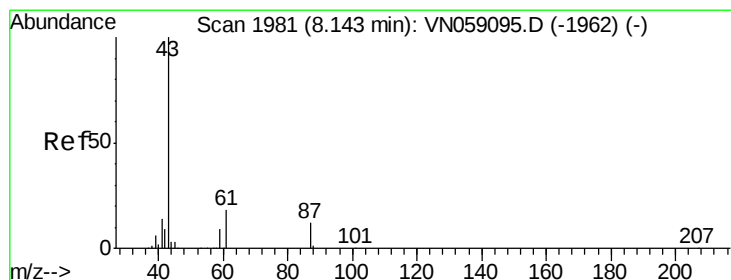
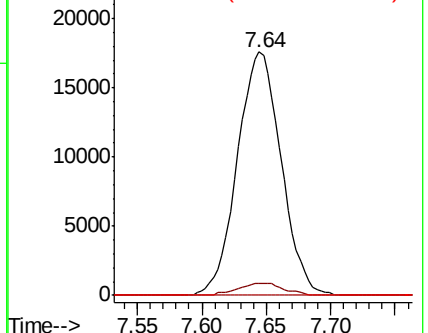
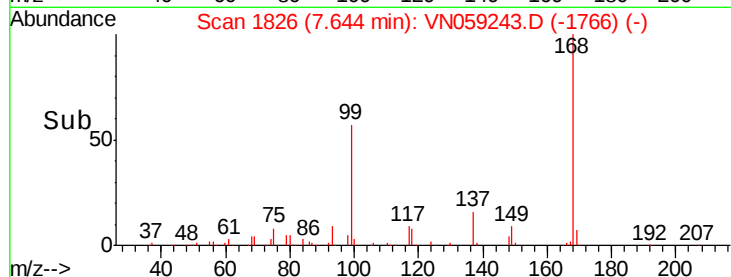
121 0.0 24.6 36.8#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 8.137 ug/l

RT: 8.15 min Scan# 1982

Delta R.T. 0.00 min

Lab File: VN059243.D

Acq: 14 Nov 2019 18:40

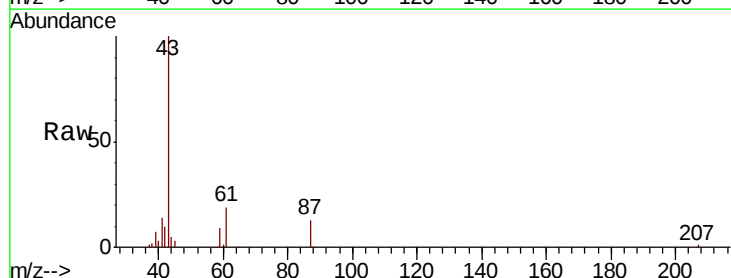
Tgt Ion: 43 Resp: 92516

Ion Ratio Lower Upper

43 100

61 20.1 21.0 31.6#

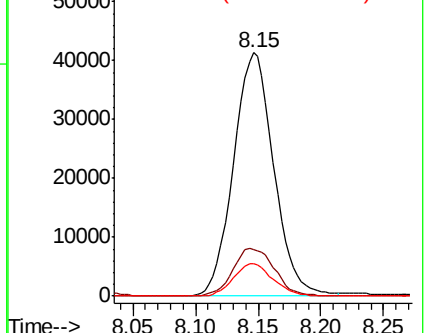
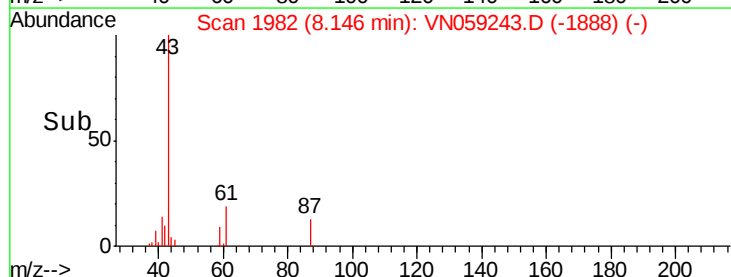
87 12.8 9.8 14.6

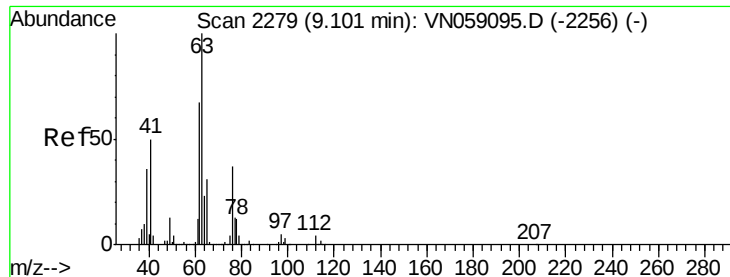


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#45

1,2-Dichloropropane

Concen: 0.384 ug/l

RT: 9.26 min Scan# 2328

Delta R.T. 0.16 min

Lab File: VN059243.D

Acq: 14 Nov 2019 18:40

Instrument :

MSVOA_N

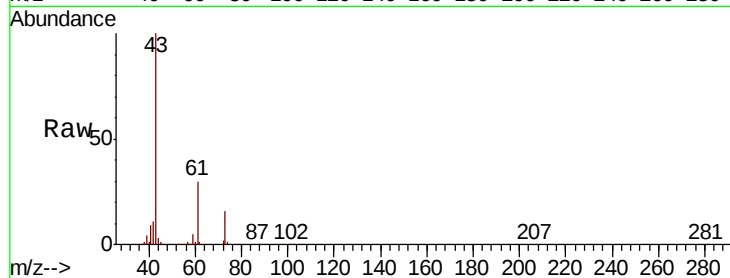
ClientSampleId :

Tot Ion: 63 Resp: 2015

Ion Ratio Lower Upper

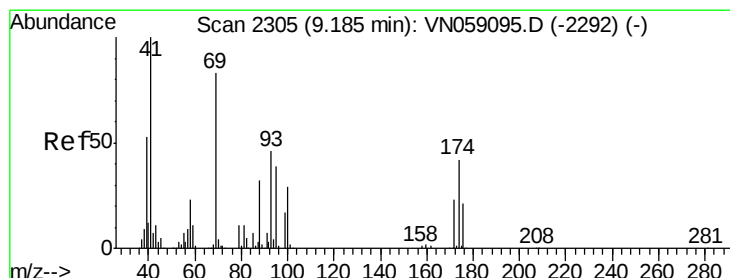
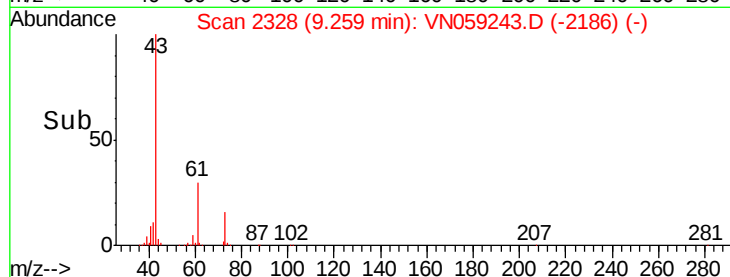
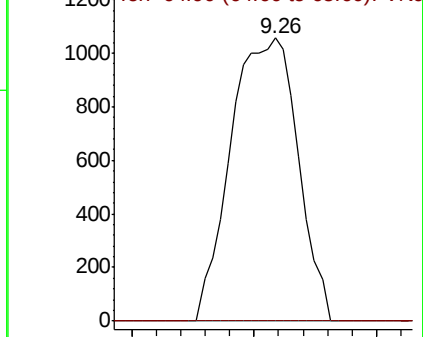
63 100

65 0.0 24.6 37.0#



Abundance Ion 62.90 (62.60 to 63.60): VNC

Ion 64.90 (64.60 to 65.60): VNC



#48

Methyl methacrylate

Concen: 1.072 ug/l

RT: 9.17 min Scan# 2300

Delta R.T. -0.02 min

Lab File: VN059243.D

Acq: 14 Nov 2019 18:40

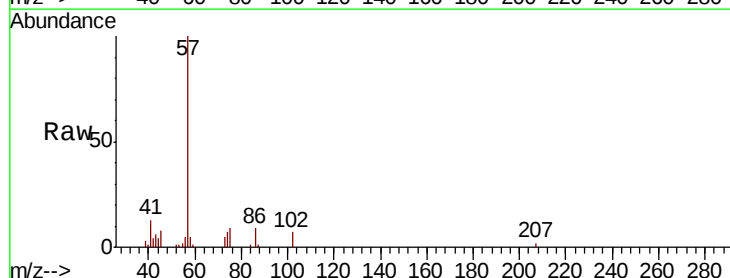
Tgt Ion: 41 Resp: 5453

Ion Ratio Lower Upper

41 100

69 0.0 67.3 100.9#

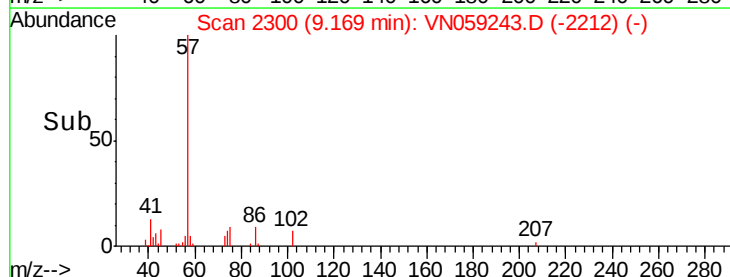
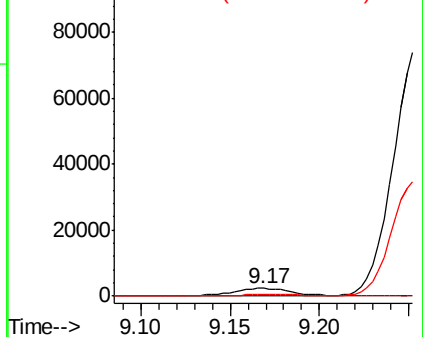
39 0.0 43.3 64.9#

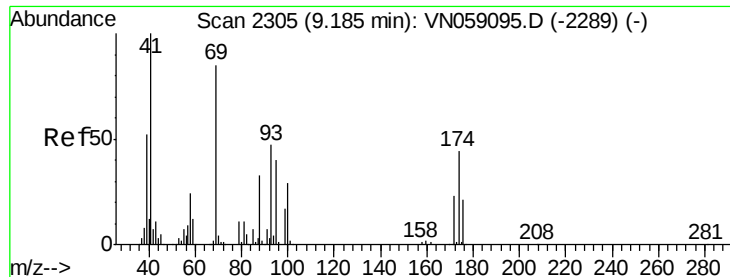


Abundance Ion 41.00 (40.70 to 41.70): VNC

Ion 69.00 (68.70 to 69.70): VNC

Ion 39.00 (38.70 to 39.70): VNC





#49

1,4-Dioxane

Concen: 0.741 ug/l

RT: 9.26 min Scan# 2327

Delta R.T. 0.07 min

Lab File: VN059243.D

Acq: 14 Nov 2019 18:40

Instrument :
MSVOA_N
ClientSampled :

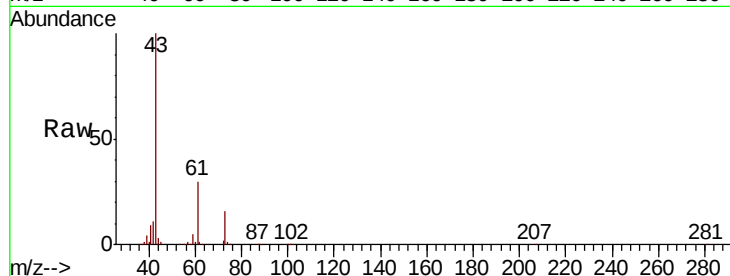
Tot Ion: 88 Resp: 67

Ion Ratio Lower Upper

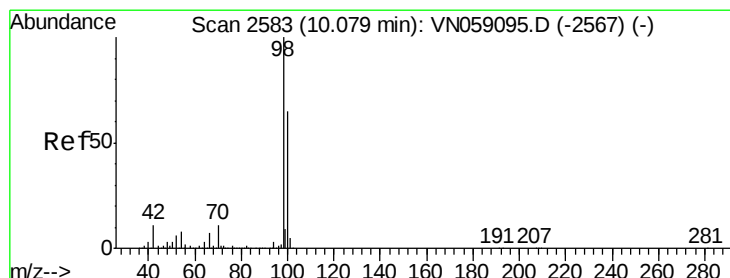
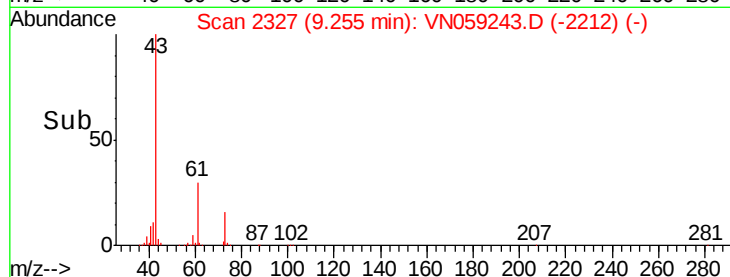
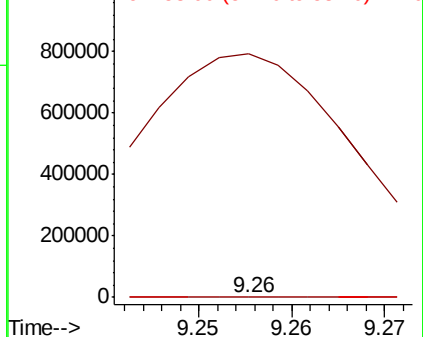
88 100

43 2221071.6 26.3 39.5#

58 10100.0 60.6 90.8#



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



#50

Toluene-d8

Concen: 54.964 ug/l

RT: 10.08 min Scan# 2584

Delta R.T. 0.00 min

Lab File: VN059243.D

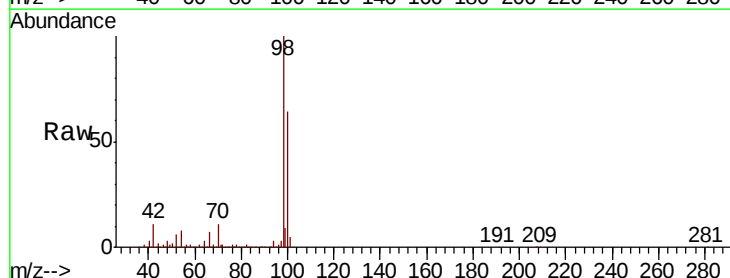
Acq: 14 Nov 2019 18:40

Tgt Ion: 98 Resp: 886604

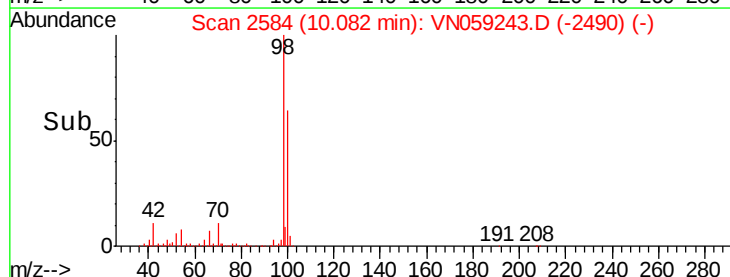
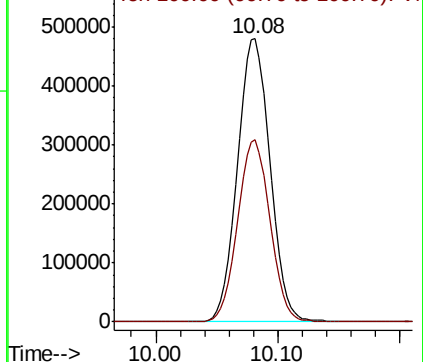
Ion Ratio Lower Upper

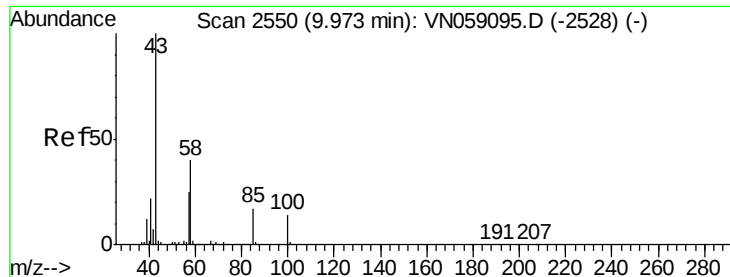
98 100

100 64.1 52.2 78.2



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





#51

4-Methyl-2-Pentanone

Concen: 1.138 ug/l

RT: 9.97 min Scan# 2550

Delta R.T. -0.00 min

Lab File: VN059243.D

Acq: 14 Nov 2019 18:40

Instrument :

MSVOA_N

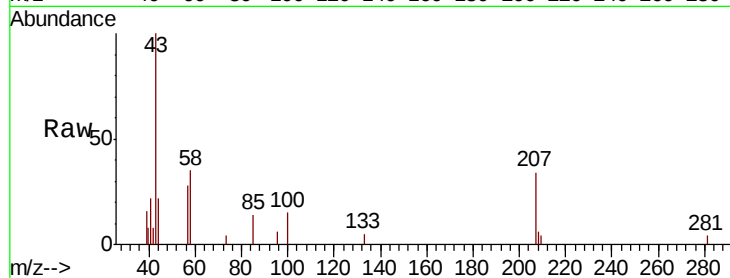
ClientSampleId :

Tot Ion: 43 Resp: 7324

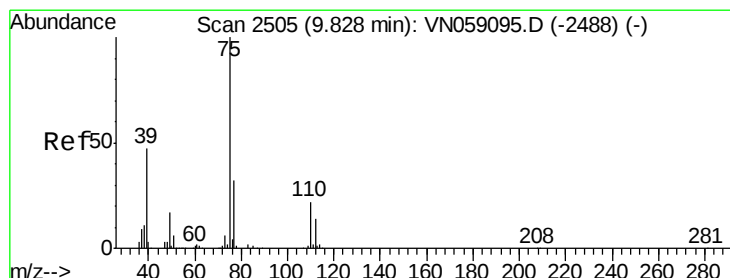
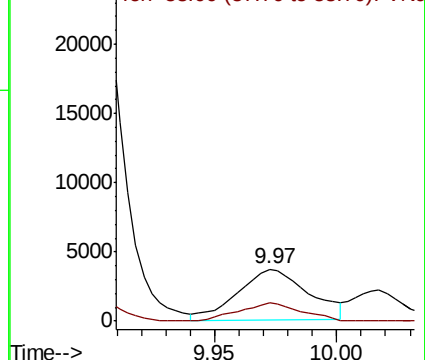
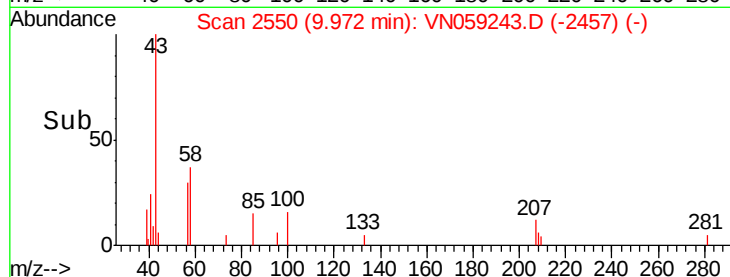
Ion Ratio Lower Upper

43 100

58 32.1 31.5 47.3



Abundance Ion 43.00 (42.70 to 43.70): VN059243.D (-2457) (-)



#54

cis-1,3-Dichloropropene

Concen: 4.567 ug/l

RT: 9.89 min Scan# 2525

Delta R.T. 0.06 min

Lab File: VN059243.D

Acq: 14 Nov 2019 18:40

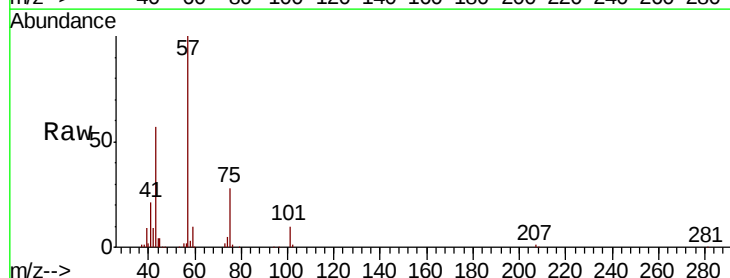
Tgt Ion: 75 Resp: 37031

Ion Ratio Lower Upper

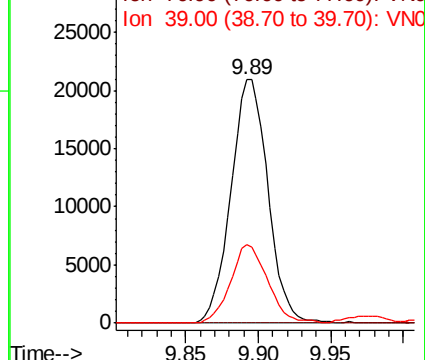
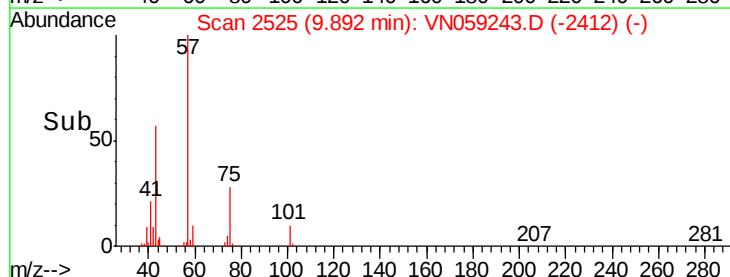
75 100

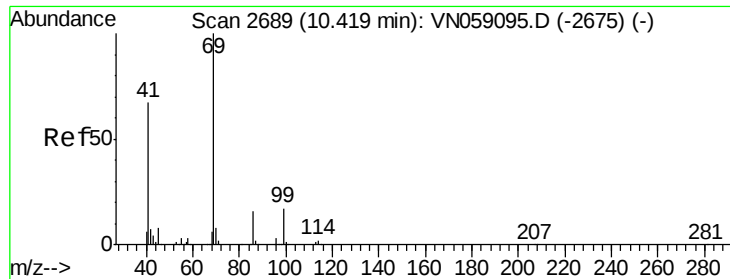
77 0.0 25.5 38.3#

39 32.3 37.3 55.9#



Abundance Ion 74.90 (74.60 to 75.60): VN059243.D (-2412) (-)





#56

Ethyl methacrylate

Concen: 2.048 ug/l

RT: 10.54 min Scan# 2726

Delta R.T. 0.12 min

Lab File: VN059243.D

Acq: 14 Nov 2019 18:40

Instrument :

MSVOA_N

ClientSampled :

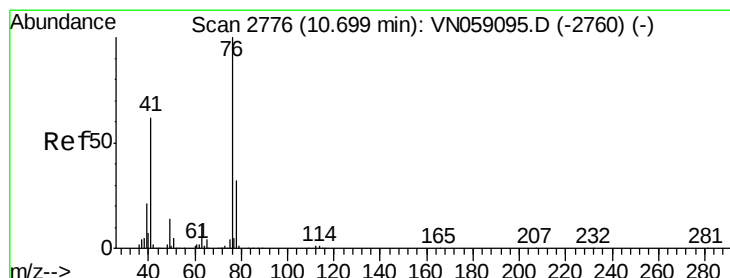
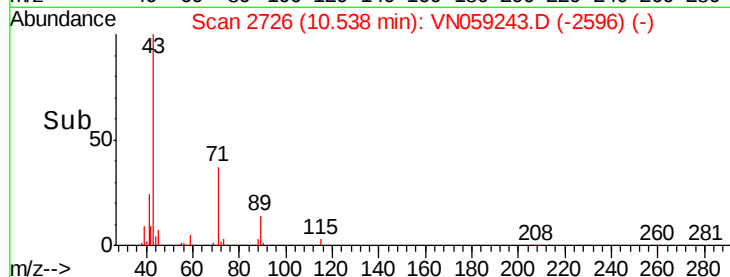
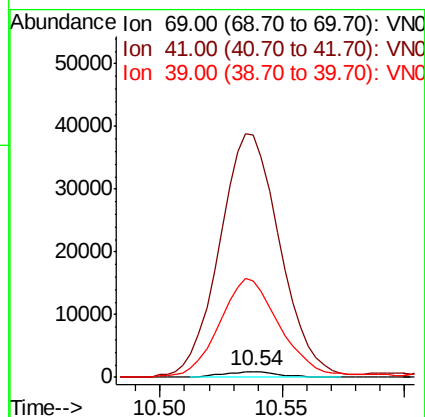
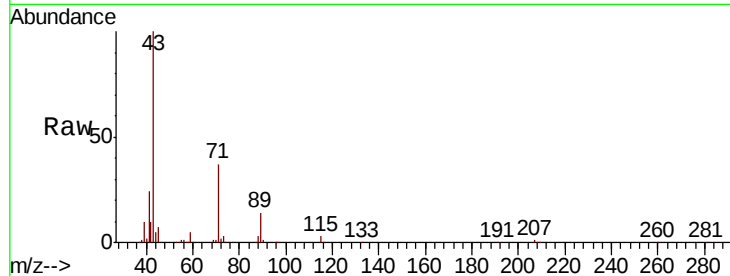
Tot Ion: 69 Resp: 1420

Ion Ratio Lower Upper

69 100

41 4734.2 53.6 80.4#

39 1918.5 26.2 39.4#



#57

1,3-Dichloropropane

Concen: 0.681 ug/l

RT: 10.76 min Scan# 2794

Delta R.T. 0.06 min

Lab File: VN059243.D

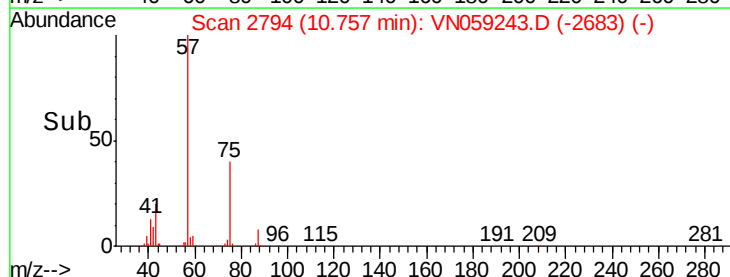
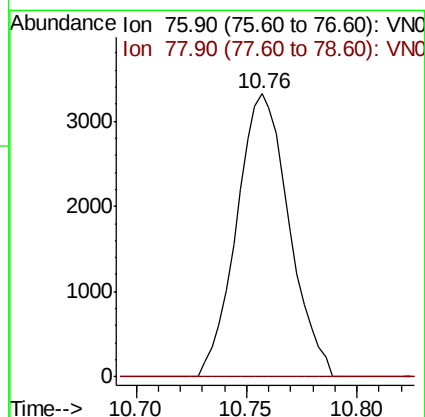
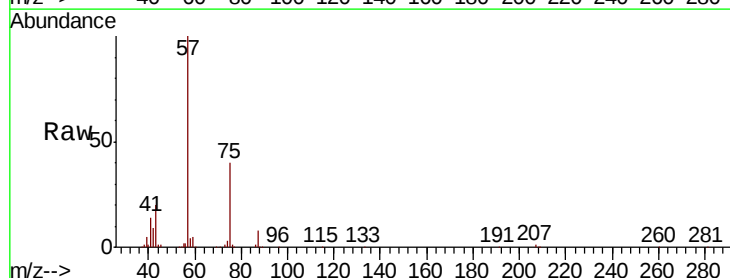
Acq: 14 Nov 2019 18:40

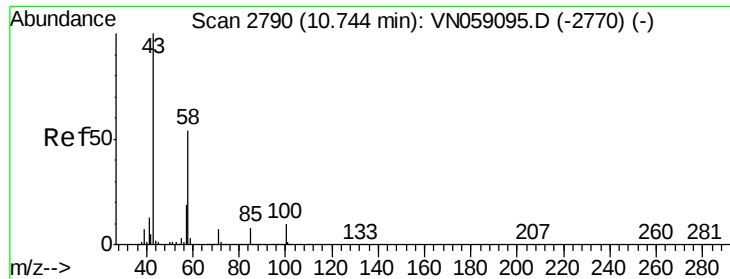
Tgt Ion: 76 Resp: 5486

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.8#

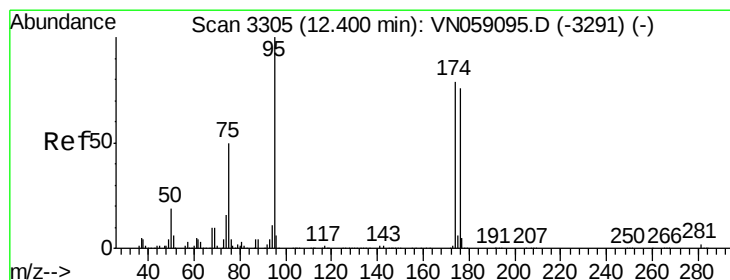
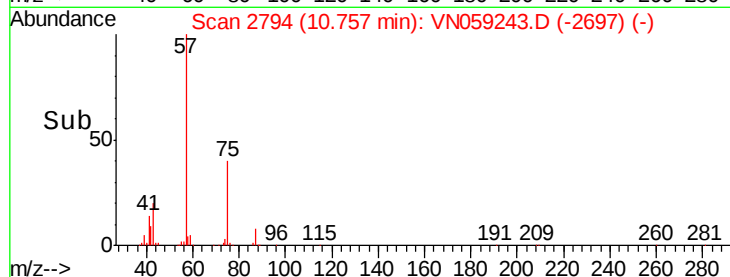
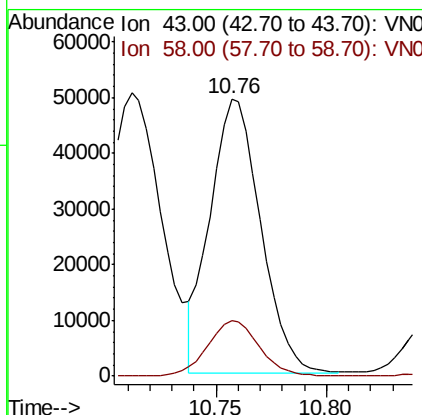
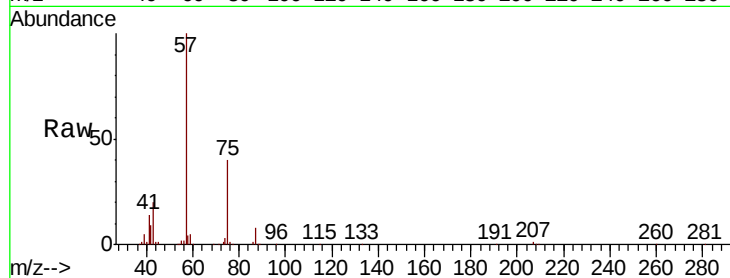




#59
2-Hexanone
Concen: 15.871 ug/l
RT: 10.76 min Scan# 2794
Delta R.T. 0.01 min
Lab File: VN059243.D
Acq: 14 Nov 2019 18:40

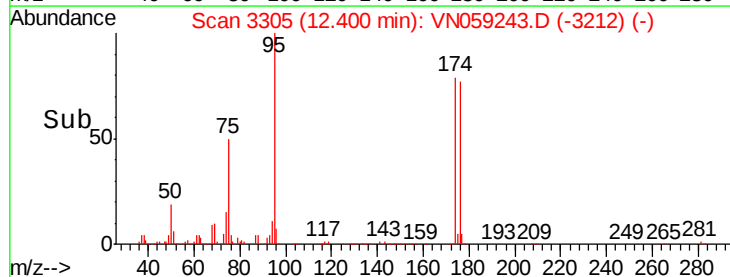
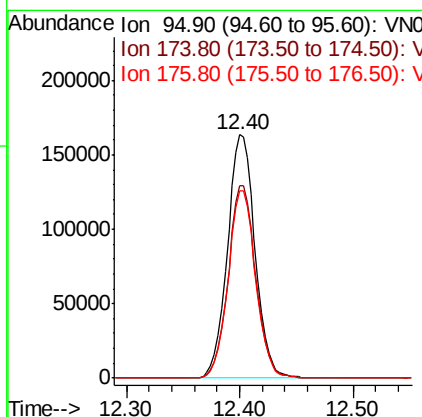
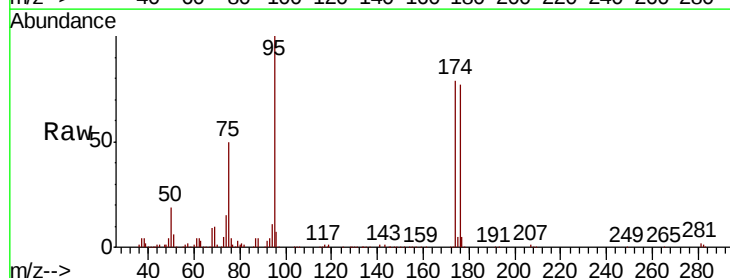
Instrument :
MSVOA_N
ClientSampled :

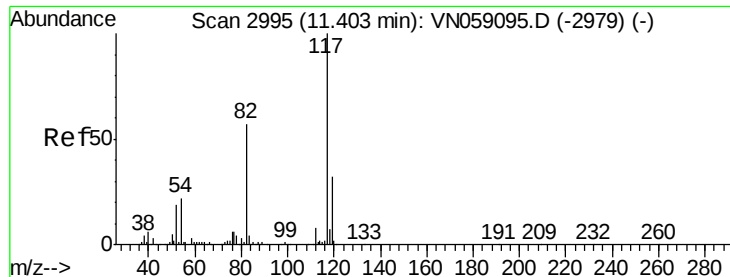
Tot Ion: 43 Resp: 78369
Ion Ratio Lower Upper
43 100
58 20.7 27.3 81.8#



#62
4-Bromofluorobenzene
Concen: 47.544 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN059243.D
Acq: 14 Nov 2019 18:40

Tgt Ion: 95 Resp: 276522
Ion Ratio Lower Upper
95 100
174 79.1 0.0 158.2
176 77.1 0.0 151.8

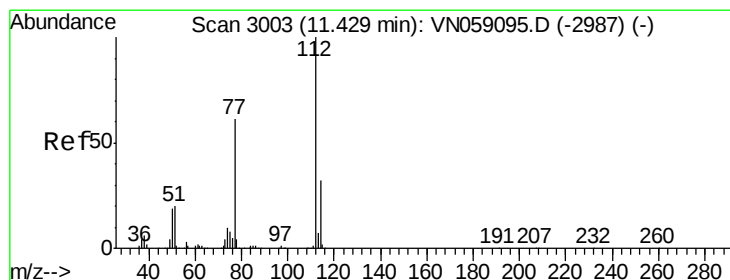
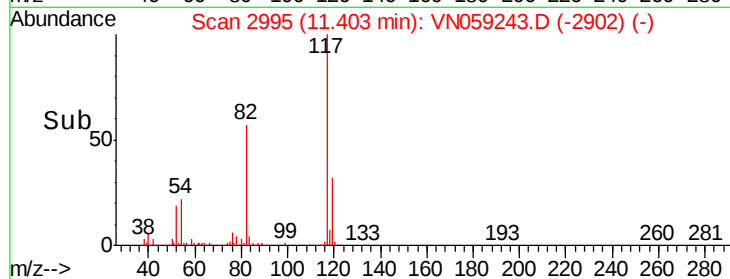
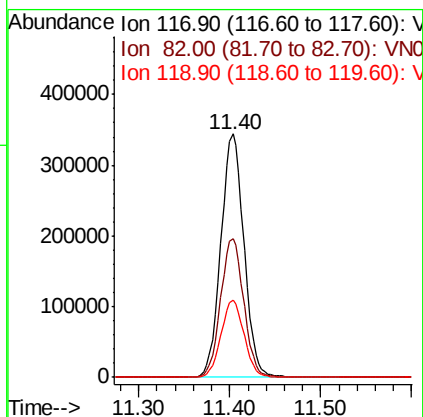
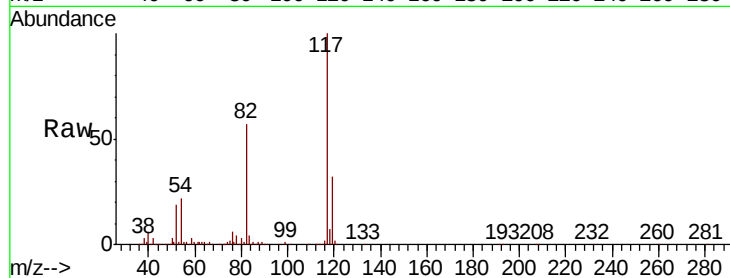




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2995
Delta R.T. -0.00 min
Lab File: VN059243.D
Acq: 14 Nov 2019 18:40

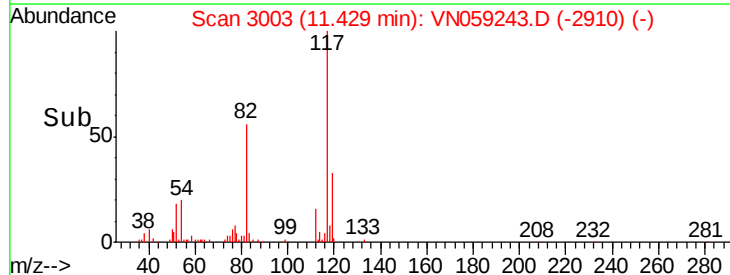
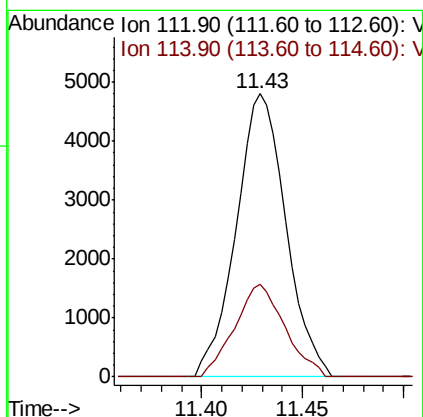
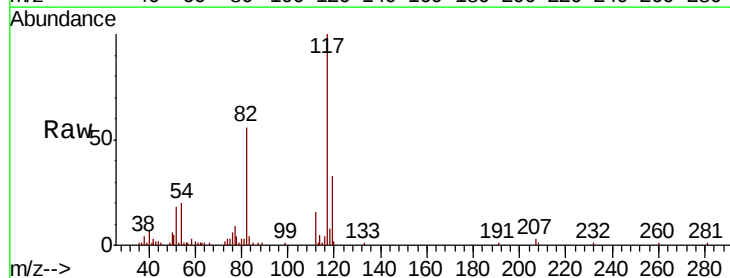
Instrument :
MSVOA_N
ClientSampled :

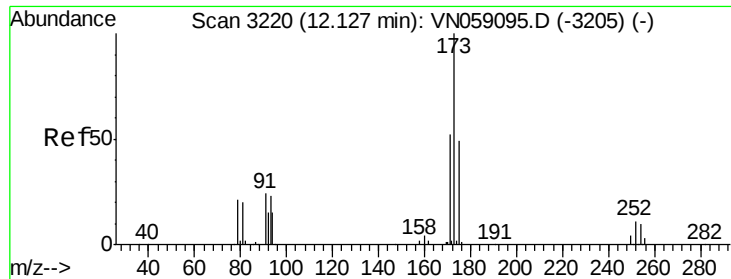
Tot Ion:117 Resp: 606471
Ion Ratio Lower Upper
117 100
82 57.0 45.8 68.8
119 31.8 25.8 38.6



#65
Chlorobenzene
Concen: 0.701 ug/l
RT: 11.43 min Scan# 3003
Delta R.T. -0.00 min
Lab File: VN059243.D
Acq: 14 Nov 2019 18:40

Tgt Ion:112 Resp: 8285
Ion Ratio Lower Upper
112 100
114 32.5 25.2 37.8





#71

Bromoform

Concen: 0.231 ug/l

RT: 12.39 min Scan# 3303

Delta R.T. 0.27 min

Lab File: VN059243.D

Acq: 14 Nov 2019 18:40

Instrument :

MSVOA_N

ClientSampled :

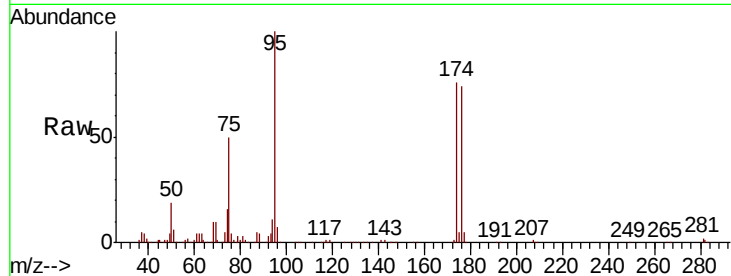
Tot Ion:173 Resp: 798

Ion Ratio Lower Upper

173 100

175 1675.9 24.2 72.6#

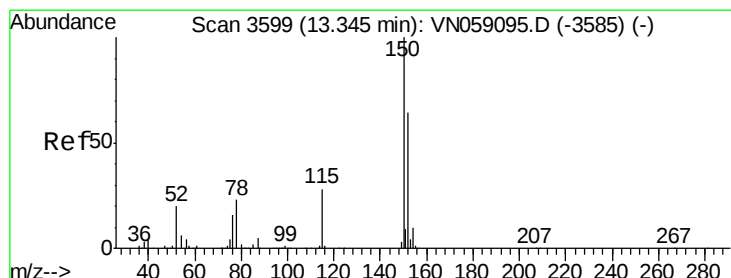
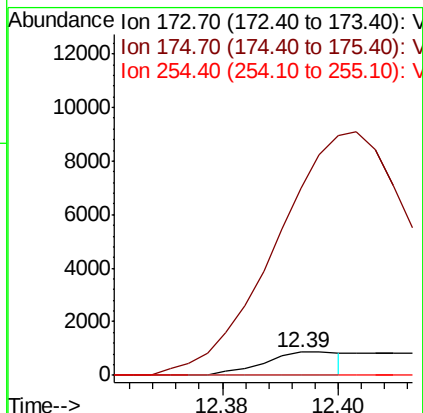
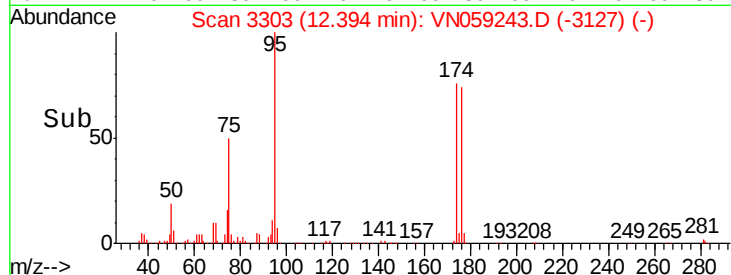
254 0.0 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. -0.00 min

Lab File: VN059243.D

Acq: 14 Nov 2019 18:40

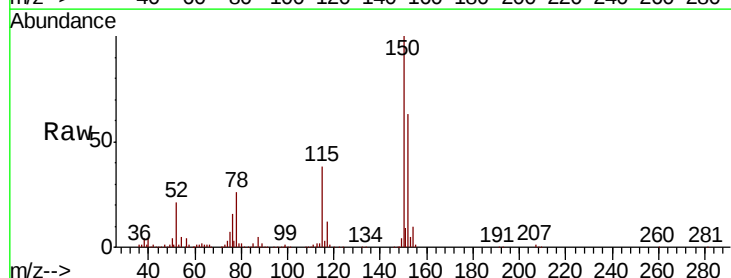
Tgt Ion:152 Resp: 212059

Ion Ratio Lower Upper

152 100

115 60.5 29.4 88.2

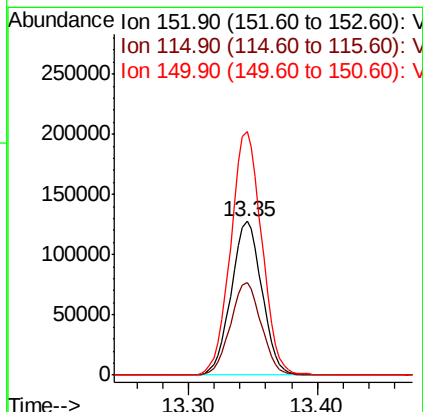
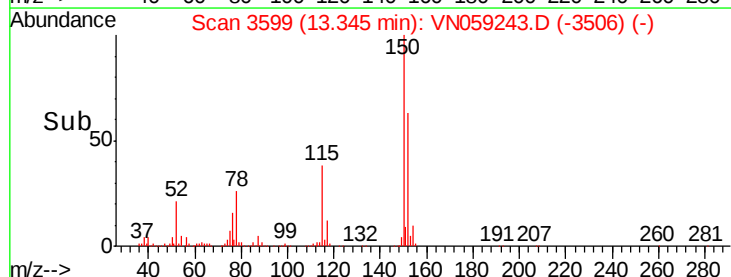
150 159.9 0.0 345.8

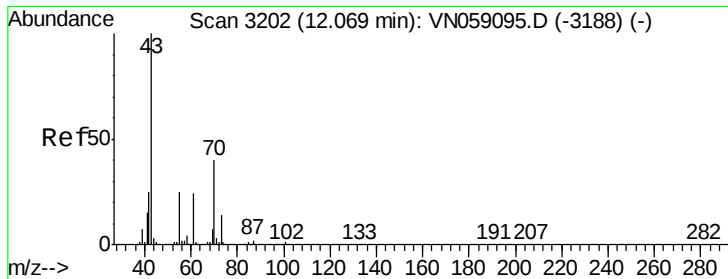


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 0.423 ug/l

RT: 12.03 min Scan# 3191

Delta R.T. -0.04 min

Lab File: VN059243.D

Acq: 14 Nov 2019 18:40

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 43 Resp: 2765

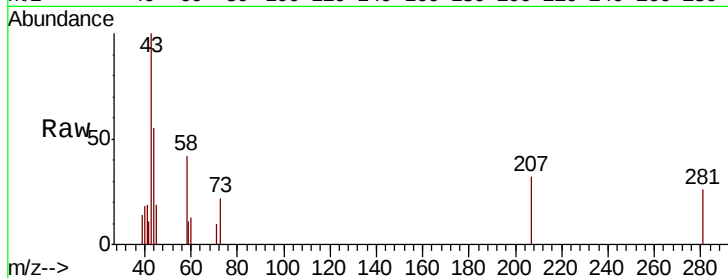
Ion Ratio Lower Upper

43 100

70 0.0 32.2 48.4#

55 0.0 20.4 30.6#

61 0.0 19.3 28.9#

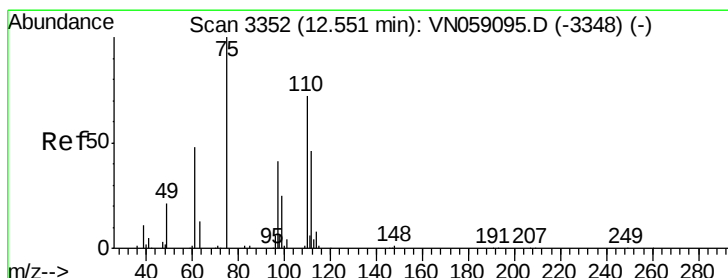
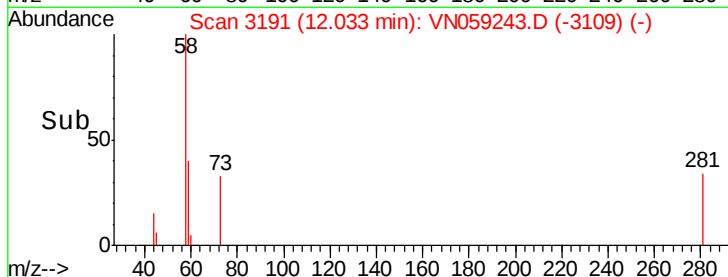
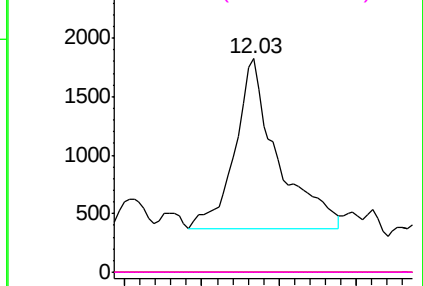


Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 70.00 (69.70 to 70.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

Ion 61.00 (60.70 to 61.70): VNO



#76

1,2,3-Trichloropropane

Concen: 28.527 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN059243.D

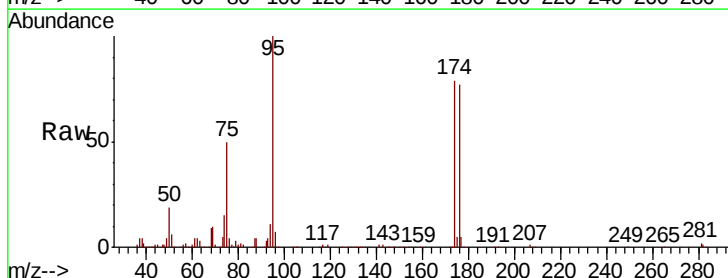
Acq: 14 Nov 2019 18:40

Tgt Ion: 75 Resp: 137725

Ion Ratio Lower Upper

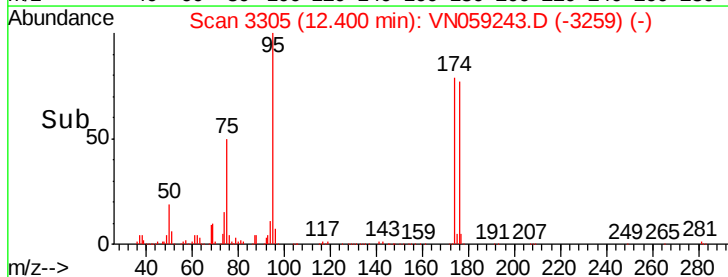
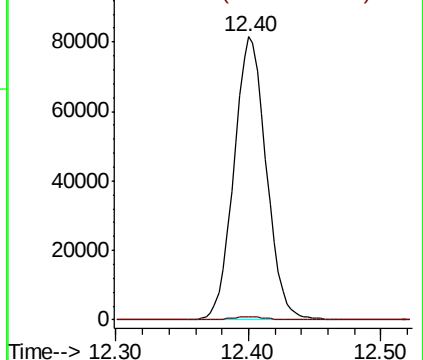
75 100

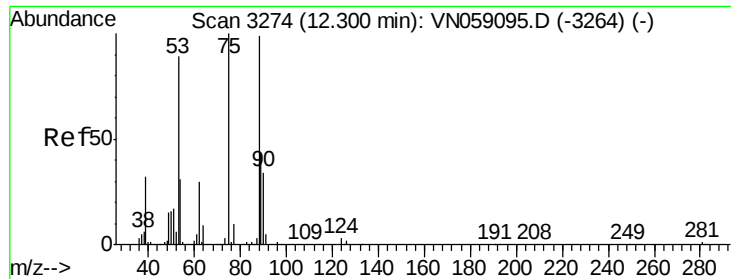
77 1.1 0.0 0.0#



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: 75.348 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN059243.D

Acq: 14 Nov 2019 18:40

Instrument :

MSVOA_N

ClientSampled :

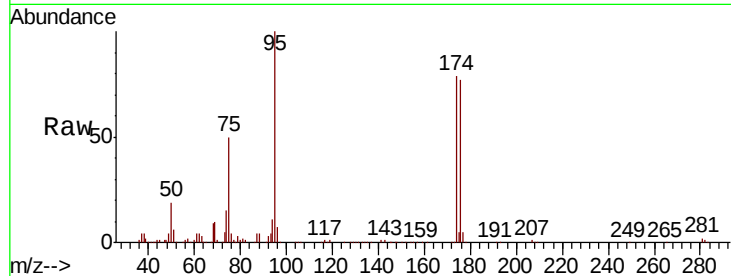
Tot Ion: 75 Resp: 137725

Ion Ratio Lower Upper

75 100

53 0.0 72.2 108.2#

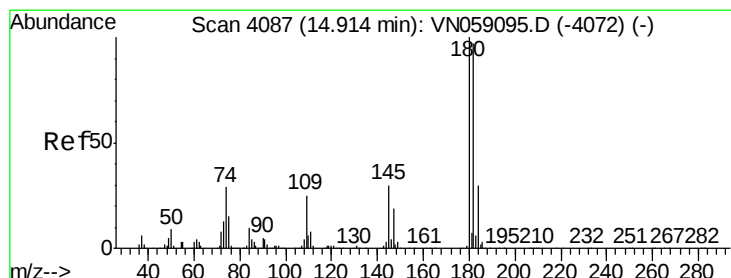
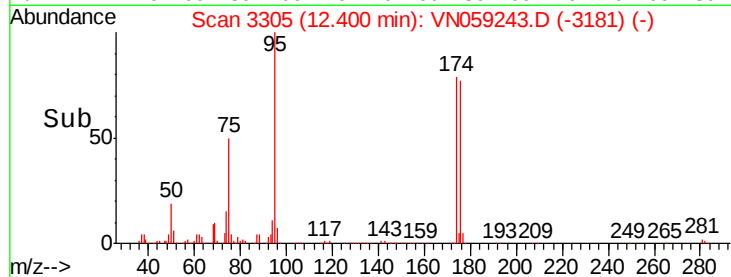
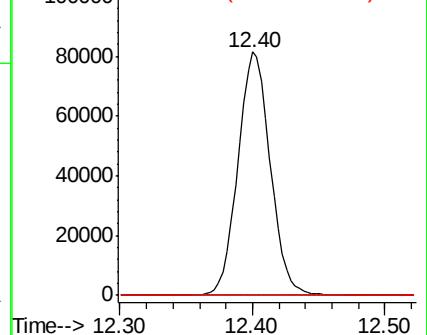
89 0.0 35.8 53.8#



Abundance Ion 74.90 (74.60 to 75.60): VN059095.D (-3264) (-)

Ion 53.00 (52.70 to 53.70): VN059095.D (-3264) (-)

Ion 88.90 (88.60 to 89.60): VN059095.D (-3264) (-)



#93

1,2,4-Trichlorobenzene

Concen: 3.055 ug/l

RT: 15.17 min Scan# 4165

Delta R.T. 0.25 min

Lab File: VN059243.D

Acq: 14 Nov 2019 18:40

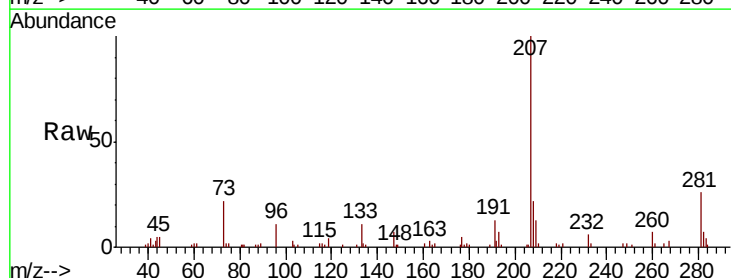
Tgt Ion: 180 Resp: 35

Ion Ratio Lower Upper

180 100

182 0.0 48.1 144.3#

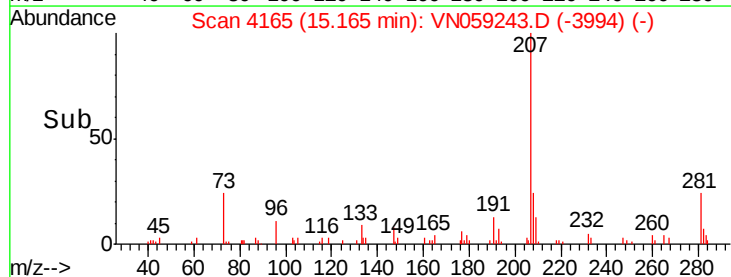
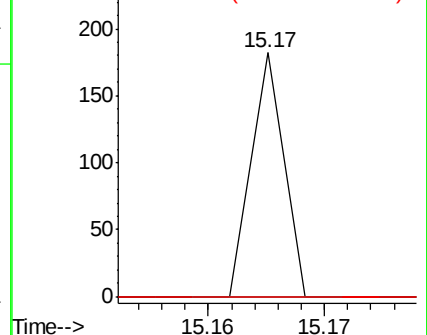
145 0.0 15.1 45.3#

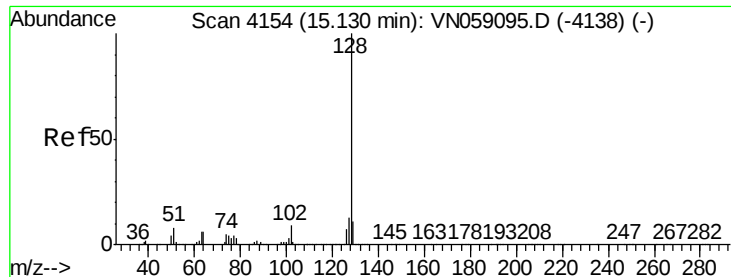


Abundance Ion 179.80 (179.50 to 180.50): VN059095.D (-4072) (-)

Ion 181.80 (181.50 to 182.50): VN059095.D (-4072) (-)

Ion 144.80 (144.50 to 145.50): VN059095.D (-4072) (-)





#95
Naphthalene
Concen: 3.321 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. 0.00 min
Lab File: VN059243.D
Acq: 14 Nov 2019 18:40

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:128 Resp: 3229
Ion Ratio Lower Upper
128 100
127 11.3 10.2 15.2
129 2.0 8.6 12.8#

