

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091519\
 Data File : VN058089.D
 Acq On : 15 Sep 2019 14:16
 Operator : JC/SP
 Sample : K4695-23
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 16 03:40:51 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091019W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 10 03:02:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	324679	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	529709	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	496251	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	258370	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.01	65	369915	56.25	ug/l	0.00
Spiked Amount	50.000		Recovery	=	112.50%	
35) Dibromofluoromethane	7.58	113	253402	51.83	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.66%	
50) Toluene-d8	10.09	98	996995	52.52	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.04%	
62) 4-Bromofluorobenzene	12.41	95	332960	46.03	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.06%	

Target Compounds

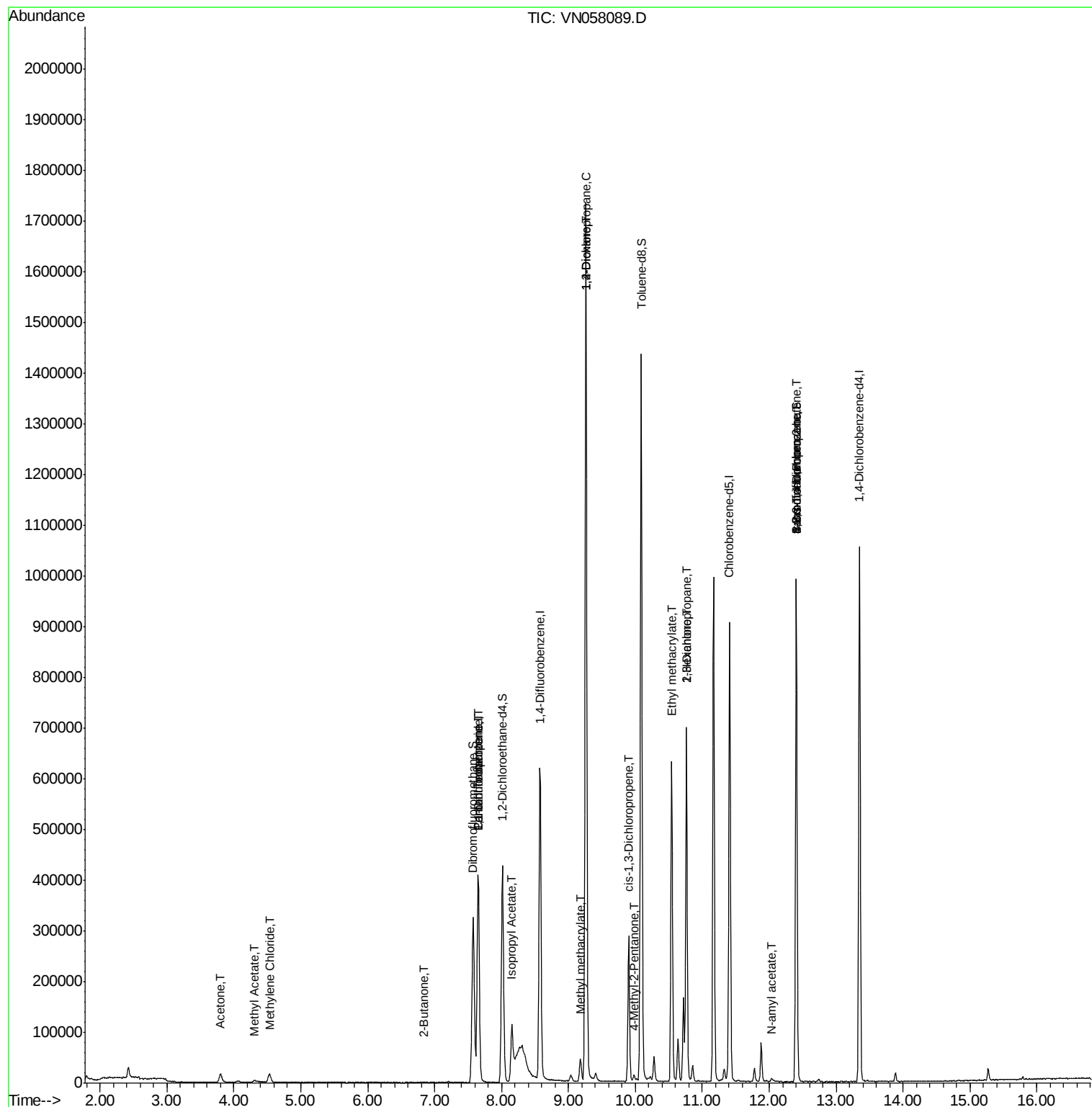
					Qvalue
5) Bromomethane	2.54	94	61	Below Cal	# 2
16) Acetone	3.80	43	31644	14.679	ug/l 98
18) Methyl Acetate	4.31	43	5398	0.939	ug/l # 71
20) Methylene Chloride	4.54	84	11772	1.679	ug/l 99
25) 2-Butanone	6.83	43	2412	0.773	ug/l 92
31) Cyclohexane	7.65	56	8335	Below Cal	# 20
36) 1,1-Dichloropropene	7.65	75	27020	4.398	ug/l # 51
38) Carbon Tetrachloride	7.65	117	32003	5.706	ug/l # 16
43) Isopropyl Acetate	8.15	43	149250	13.983	ug/l # 83
45) 1,2-Dichloropropane	9.27	63	2033	0.378	ug/l # 44
48) Methyl methacrylate	9.18	41	5166	0.954	ug/l # 13
49) 1,4-Dioxane	9.27	88	66	0.721	ug/l # 1
51) 4-Methyl-2-Pentanone	9.98	43	8329	1.319	ug/l 100
54) cis-1,3-Dichloropropene	9.90	75	47692	6.317	ug/l # 66
56) Ethyl methacrylate	10.54	69	2417	0.325	ug/l # 1
57) 1,3-Dichloropropane	10.76	76	6659	0.783	ug/l # 43
59) 2-Hexanone	10.76	43	105925	22.374	ug/l # 54
71) Bromoform	12.40	173	2283	0.813	ug/l # 1
74) N-amyl acetate	12.03	43	4490	0.515	ug/l # 47
76) 1,2,3-Trichloropropane	12.40	75	184825	31.622	ug/l # 100
81) trans-1,4-Dichloro-2-buten	12.40	75	184825	111.279	ug/l # 6
95) Naphthalene	15.14	128	1130	Below Cal	# 69

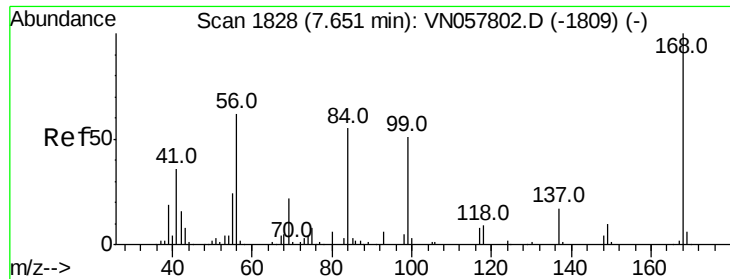
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN091519\
Data File : VN058089.D
Acq On : 15 Sep 2019 14:16
Operator : JC/SP
Sample : K4695-23
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :

Quant Time: Sep 16 03:40:51 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N091019W.M
Quant Title : SW846 8260
QLast Update : Tue Sep 10 03:02:13 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN058089.D

Acq: 15 Sep 2019 14:16

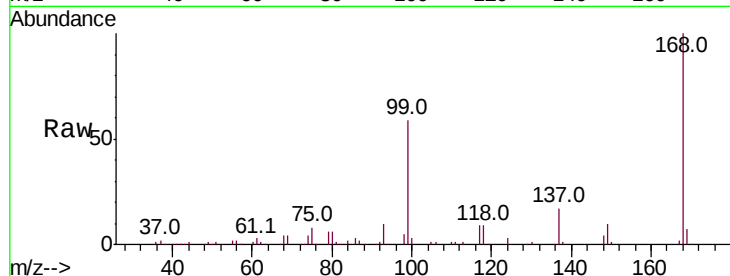
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 324679

Ion Ratio Lower Upper

168 100

99 59.0 48.0 72.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.65

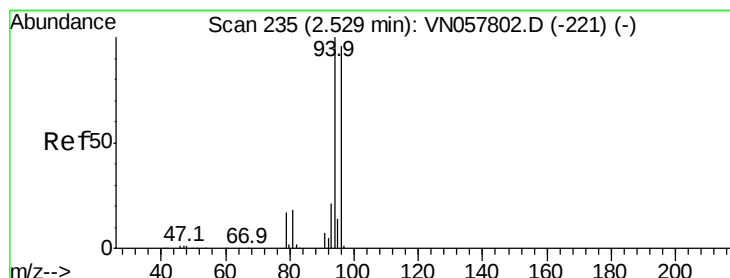
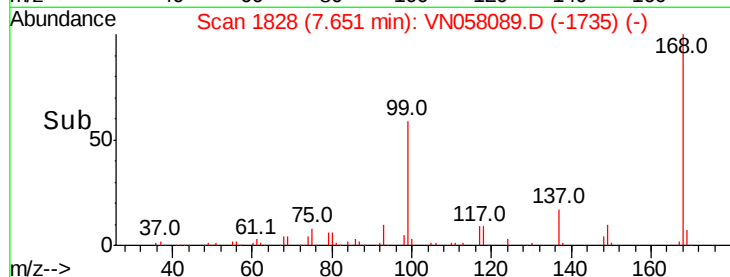
150000

100000

50000

0

Time--> 7.50 7.60 7.70 7.80



#5

Bromomethane

Concen: Below Cal

RT: 2.54 min Scan# 238

Delta R.T. 0.01 min

Lab File: VN058089.D

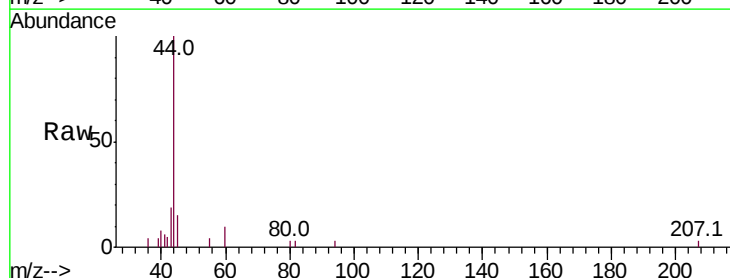
Acq: 15 Sep 2019 14:16

Tgt Ion: 94 Resp: 61

Ion Ratio Lower Upper

94 100

96 0.0 77.0 115.4#



Abundance Ion 93.90 (93.60 to 94.60): VN

Ion 95.90 (95.60 to 96.60): VN

250

200

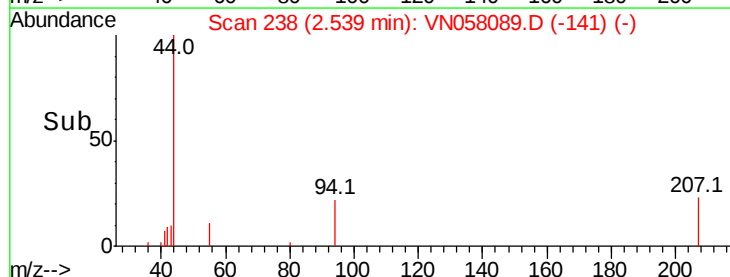
150

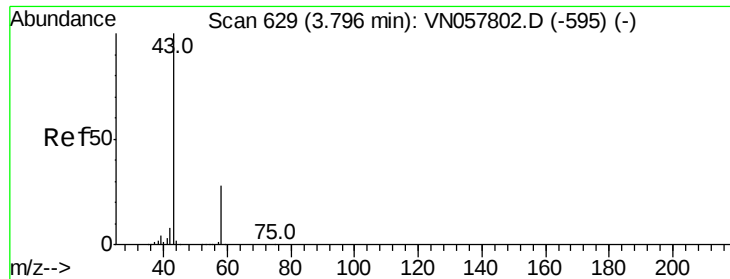
100

50

0

Time--> 2.53 2.54 2.55





#16

Acetone

Concen: 14.679 ug/l

RT: 3.80 min Scan# 631

Delta R.T. 0.01 min

Lab File: VN058089.D

Acq: 15 Sep 2019 14:16

Instrument :

MSVOA_N

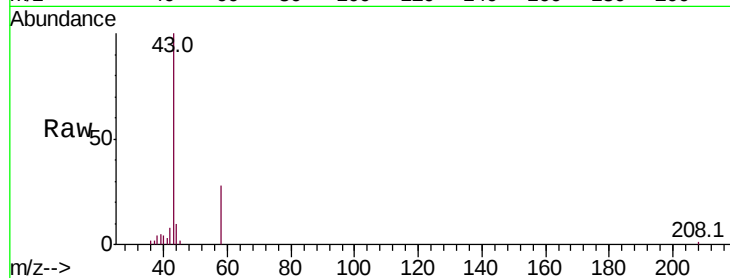
ClientSampled :

Tot Ion: 43 Resp: 31644

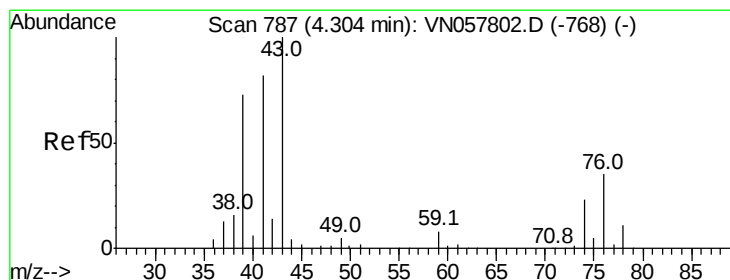
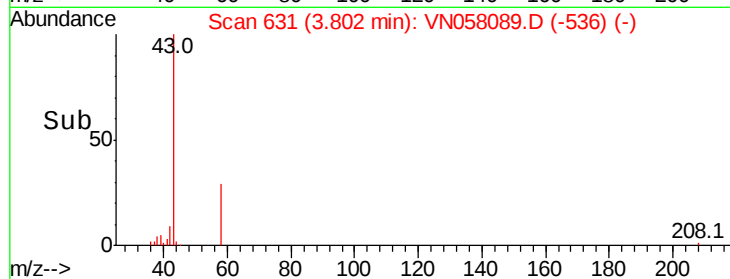
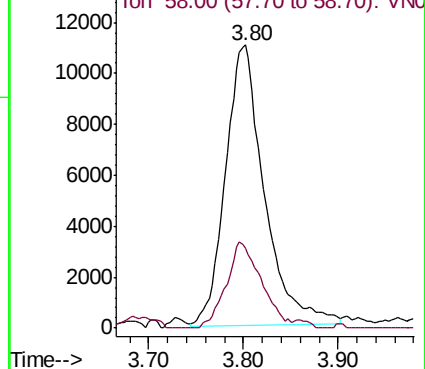
Ion Ratio Lower Upper

43 100

58 28.5 22.2 33.2



Abundance Ion 43.00 (42.70 to 43.70): VN057802.D (-595) (-)



#18

Methyl Acetate

Concen: 0.939 ug/l

RT: 4.31 min Scan# 790

Delta R.T. 0.01 min

Lab File: VN058089.D

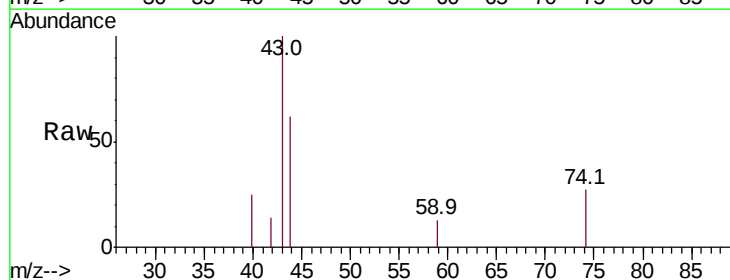
Acq: 15 Sep 2019 14:16

Tgt Ion: 43 Resp: 5398

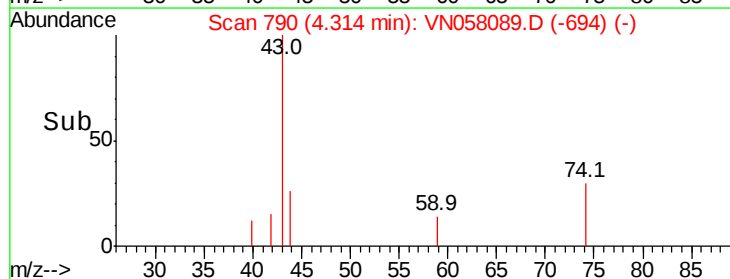
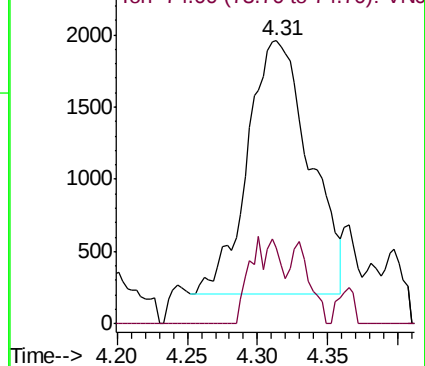
Ion Ratio Lower Upper

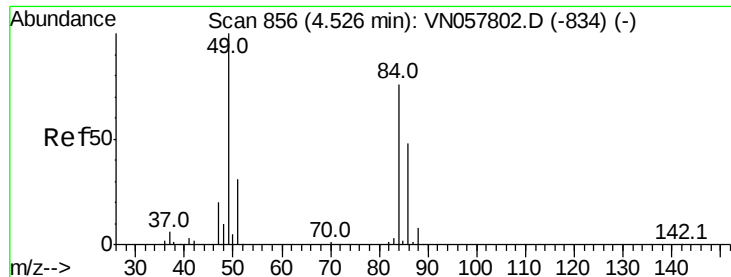
43 100

74 8.3 17.9 26.9#



Abundance Ion 43.00 (42.70 to 43.70): VN057802.D (-768) (-)

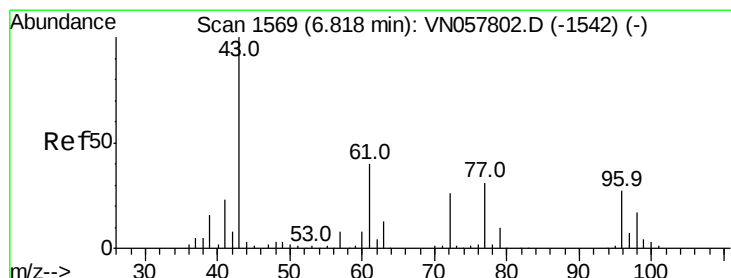
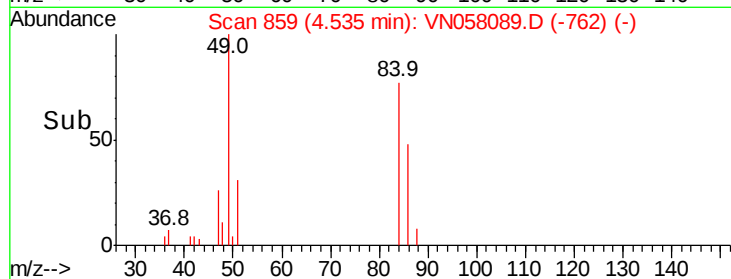
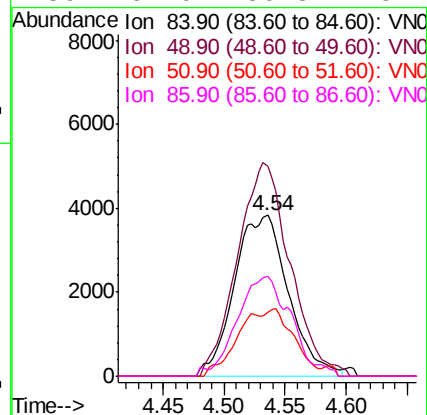
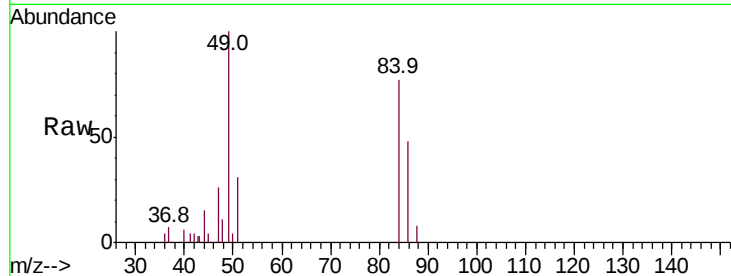




#20
Methvlene Chloride
Concen: 1.679 ug/l
RT: 4.54 min Scan# 859
Delta R.T. 0.01 min
Lab File: VN058089.D
Acq: 15 Sep 2019 14:16

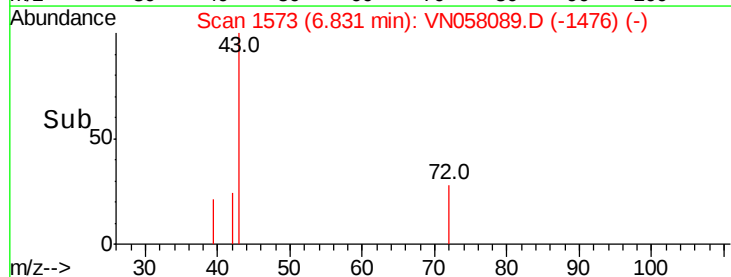
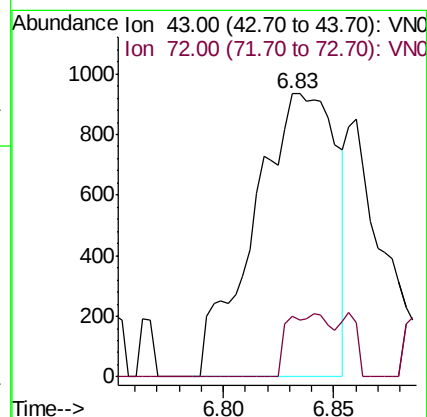
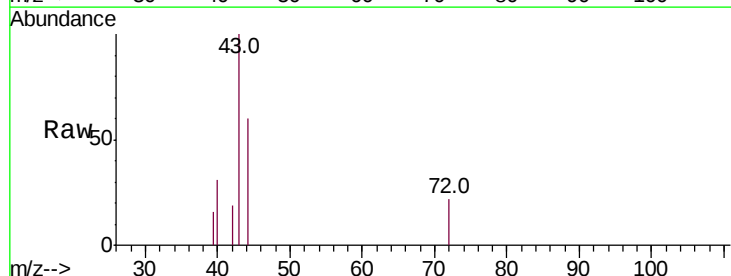
Instrument :
MSVOA_N
ClientSampleId :

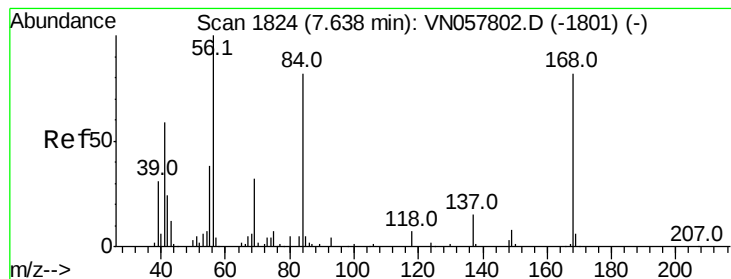
Tot Ion: 84 Resp: 11772
Ion Ratio Lower Upper
84 100
49 130.2 104.8 157.2
51 40.0 33.0 49.4
86 62.0 50.5 75.7



#25
2-Butanone
Concen: 0.773 ug/l
RT: 6.83 min Scan# 1573
Delta R.T. 0.01 min
Lab File: VN058089.D
Acq: 15 Sep 2019 14:16

Tgt Ion: 43 Resp: 2412
Ion Ratio Lower Upper
43 100
72 21.6 20.6 30.8





#31

Cyclohexane

Concen: Below Cal

RT: 7.65 min Scan# 1829

Delta R.T. 0.02 min

Lab File: VN058089.D

Acq: 15 Sep 2019 14:16

Instrument :
MSVOA_N
ClientSampled :

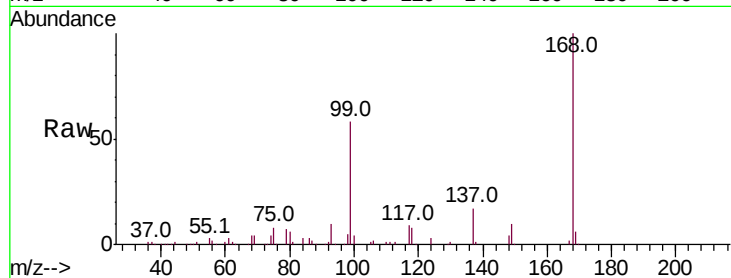
Tot Ion: 56 Resp: 8335

Ion Ratio Lower Upper

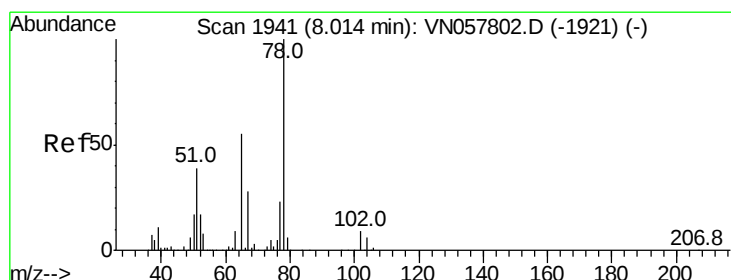
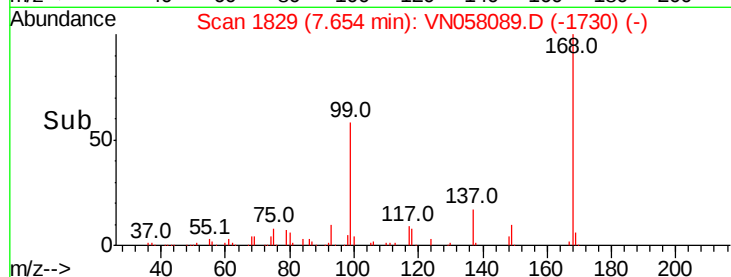
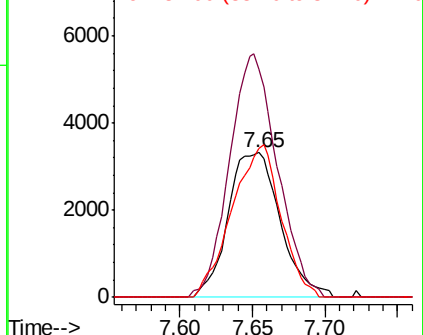
56 100

69 157.8 25.9 38.9#

84 102.7 65.6 98.4#



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



#33

1,2-Dichloroethane-d4

Concen: 56.251 ug/l

RT: 8.01 min Scan# 1940

Delta R.T. -0.00 min

Lab File: VN058089.D

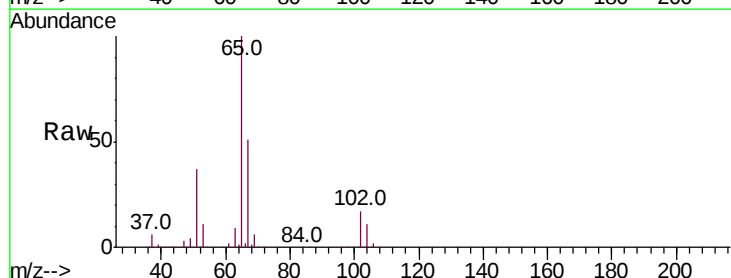
Acq: 15 Sep 2019 14:16

Tgt Ion: 65 Resp: 369915

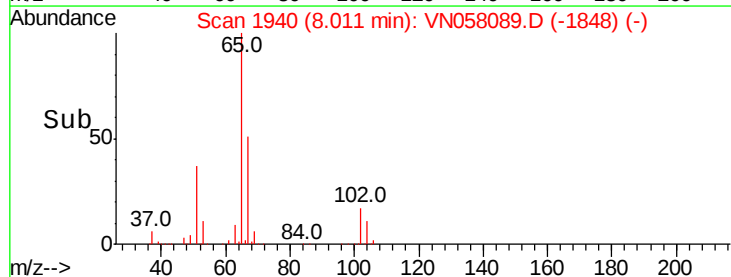
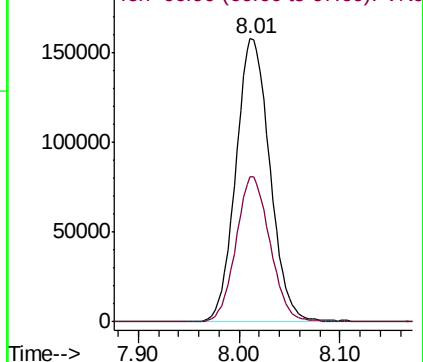
Ion Ratio Lower Upper

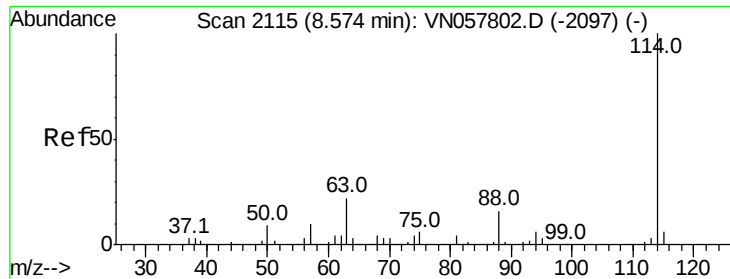
65 100

67 51.3 0.0 104.0



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

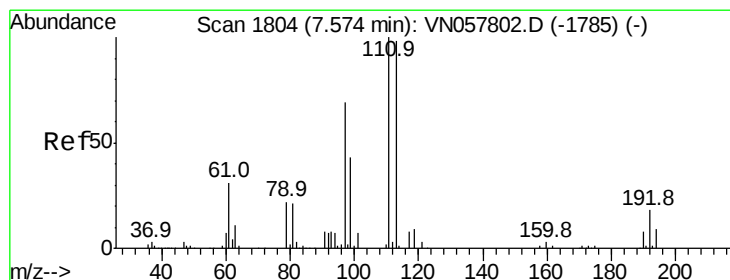
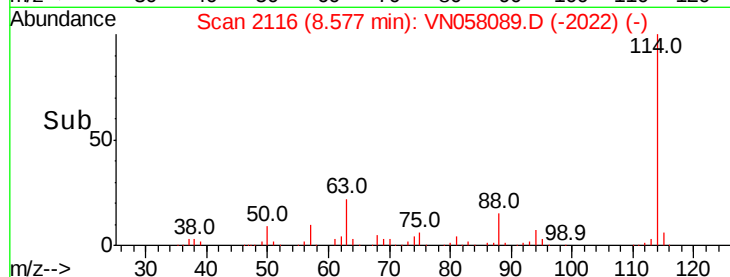
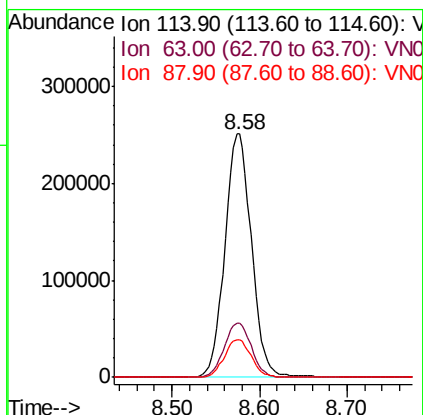
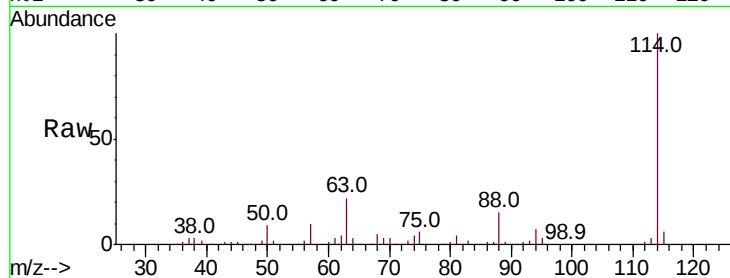




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2116
 Delta R.T. 0.00 min
 Lab File: VN058089.D
 Acq: 15 Sep 2019 14:16

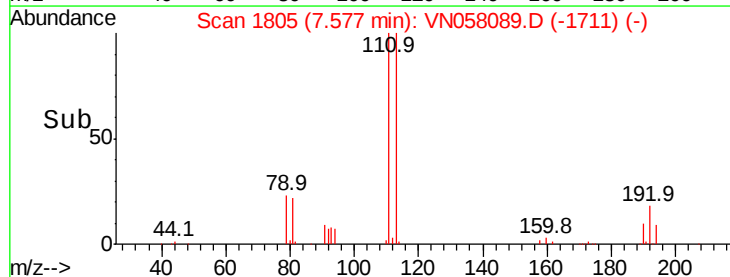
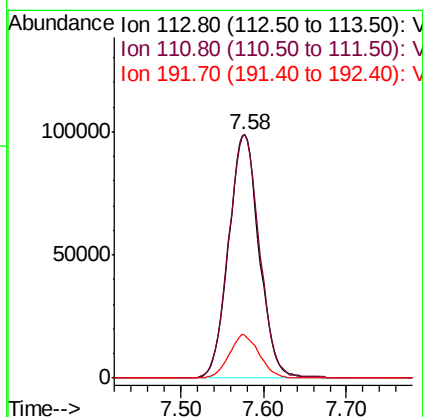
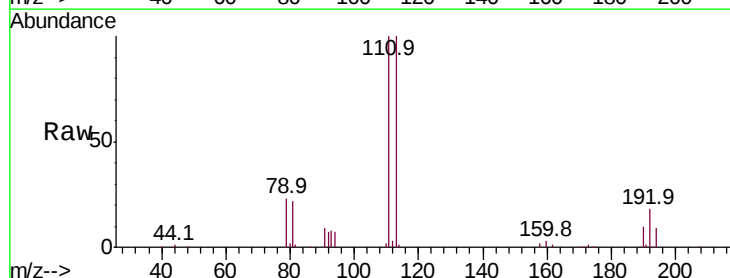
Instrument :
 MSVOA_N
 ClientSampleId :

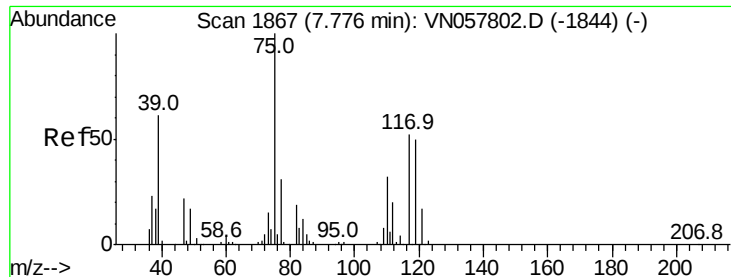
Tot Ion	Ratio	Lower	Upper
114	100		
63	22.4	0.0	44.0
88	15.5	0.0	31.4



#35
 Dibromofluoromethane
 Concen: 51.831 ug/l
 RT: 7.58 min Scan# 1805
 Delta R.T. 0.00 min
 Lab File: VN058089.D
 Acq: 15 Sep 2019 14:16

Tgt Ion	Ratio	Lower	Upper
113	100		
111	100.8	81.3	121.9
192	17.6	14.6	22.0

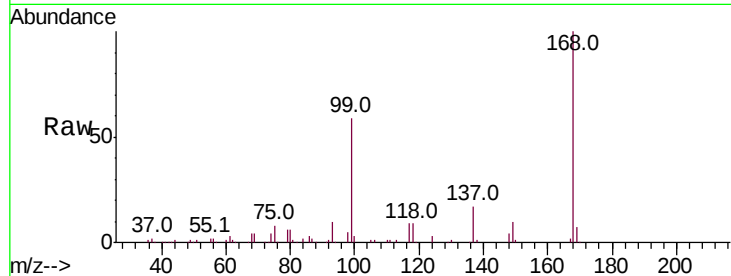




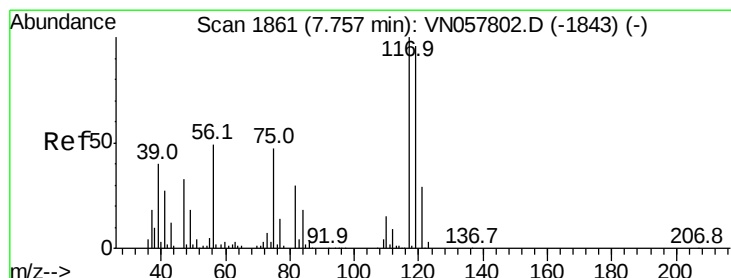
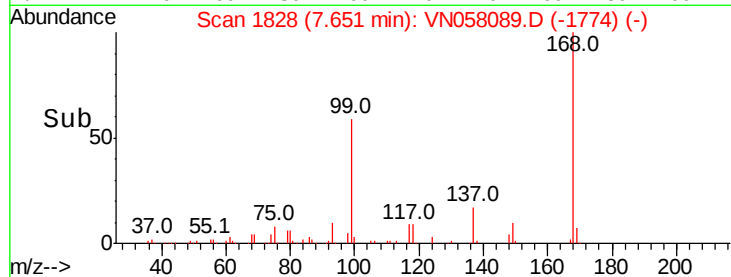
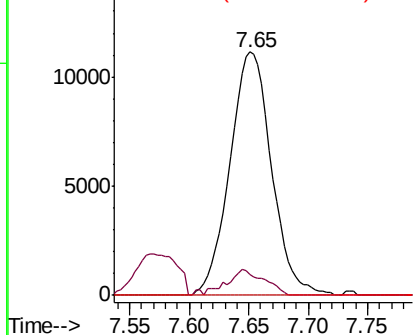
#36
 1,1-Dichloropropene
 Concen: 4.398 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.13 min
 Lab File: VN058089.D
 Acq: 15 Sep 2019 14:16

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion	Ratio	Lower	Upper
75	100		
110	9.4	16.3	48.9#
77	0.0	25.0	37.4#

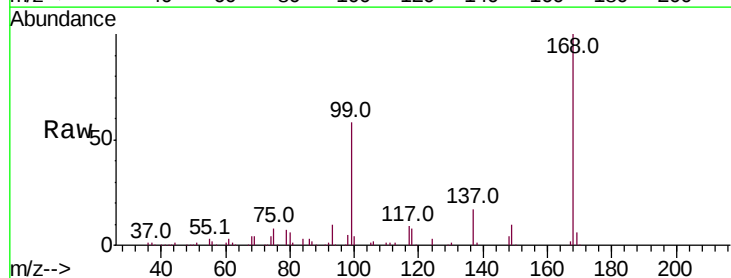


Abundance Ion 74.90 (74.60 to 75.60): VN057802.D (-1844) (-)
 Ion 109.90 (109.60 to 110.60): VN057802.D (-1844) (-)
 Ion 76.90 (76.60 to 77.60): VN057802.D (-1844) (-)

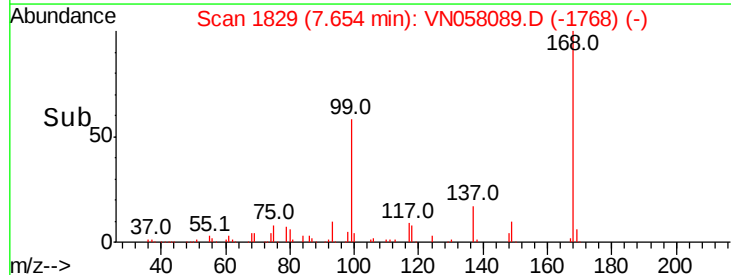
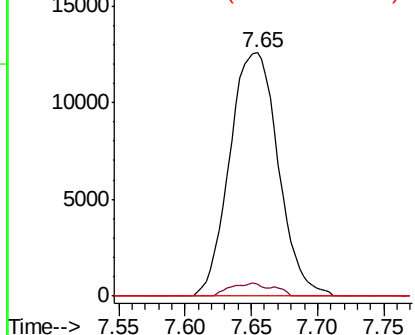


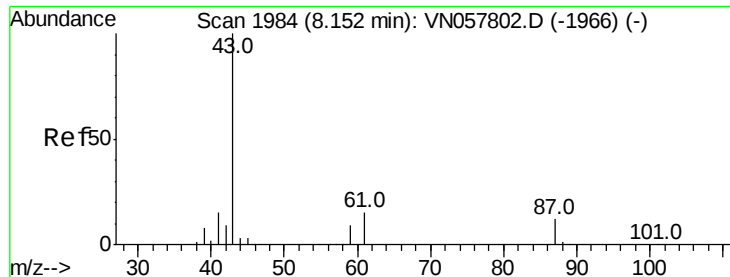
#38
 Carbon Tetrachloride
 Concen: 5.706 ug/l
 RT: 7.65 min Scan# 1829
 Delta R.T. -0.10 min
 Lab File: VN058089.D
 Acq: 15 Sep 2019 14:16

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.0	76.9	115.3#
121	0.0	23.4	35.2#



Abundance Ion 116.80 (116.50 to 117.50): VN057802.D (-1843) (-)
 Ion 118.80 (118.50 to 119.50): VN057802.D (-1843) (-)
 Ion 120.80 (120.50 to 121.50): VN057802.D (-1843) (-)





#43

Isopropyl Acetate

Concen: 13.983 ug/l

RT: 8.15 min Scan# 1984

Delta R.T. 0.00 min

Lab File: VN058089.D

Acq: 15 Sep 2019 14:16

Instrument :

MSVOA_N

ClientSampleId :

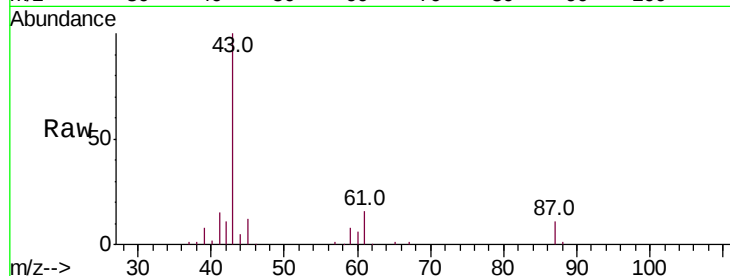
Tot Ion: 43 Resp: 149250

Ion Ratio Lower Upper

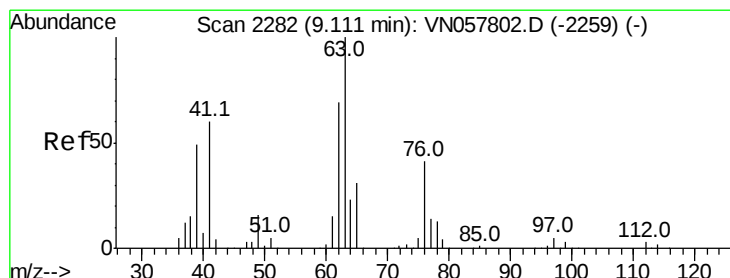
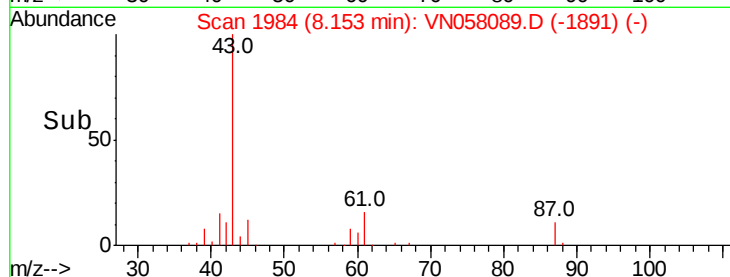
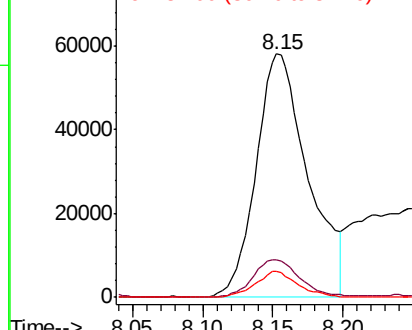
43 100

61 14.2 20.1 30.1#

87 8.9 9.5 14.3#



Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 61.00 (60.70 to 61.70): VNO
Ion 87.00 (86.70 to 87.70): VNO



#45

1,2-Dichloropropane

Concen: 0.378 ug/l

RT: 9.27 min Scan# 2330

Delta R.T. 0.15 min

Lab File: VN058089.D

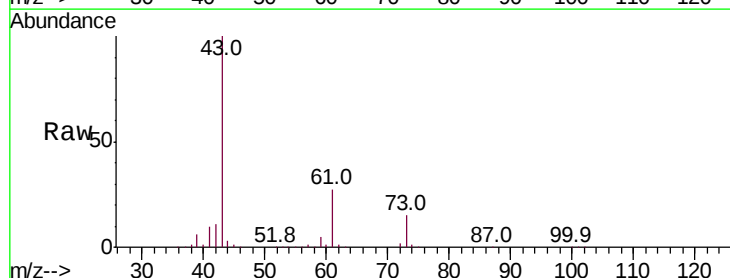
Acq: 15 Sep 2019 14:16

Tgt Ion: 63 Resp: 2033

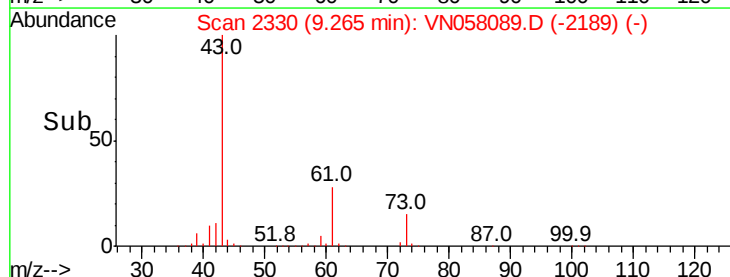
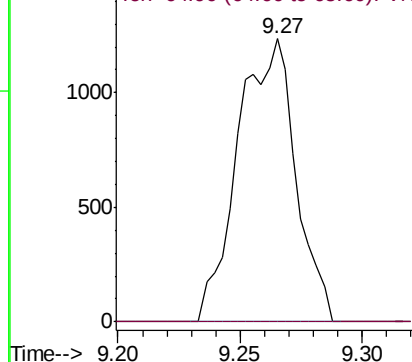
Ion Ratio Lower Upper

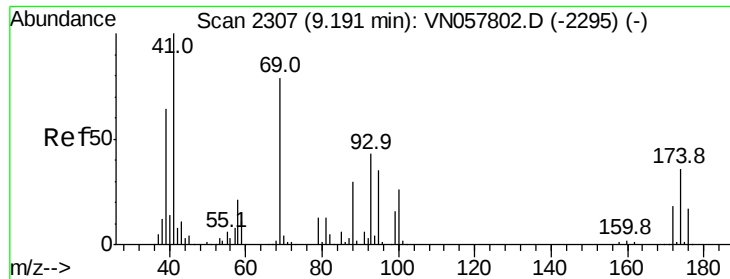
63 100

65 0.0 24.8 37.2#



Abundance Ion 62.90 (62.60 to 63.60): VNO
Ion 64.90 (64.60 to 65.60): VNO

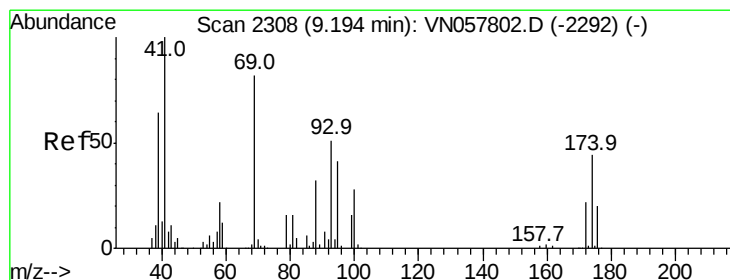
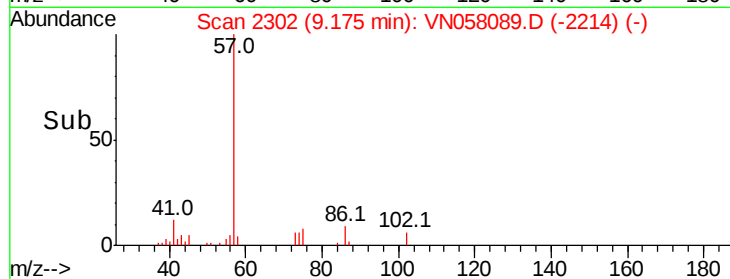
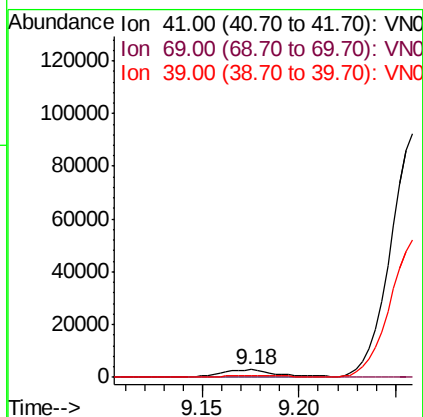
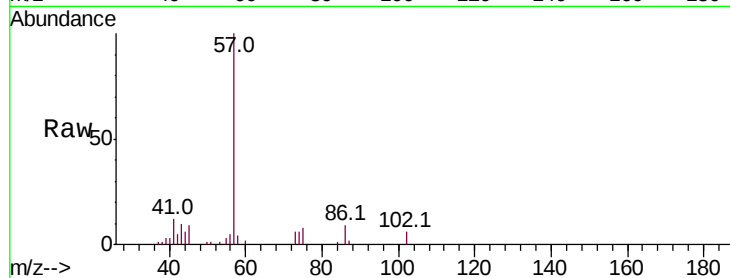




#48
Methyl methacrylate
Concen: 0.954 ug/l
RT: 9.18 min Scan# 2302
Delta R.T. -0.02 min
Lab File: VN058089.D
Acq: 15 Sep 2019 14:16

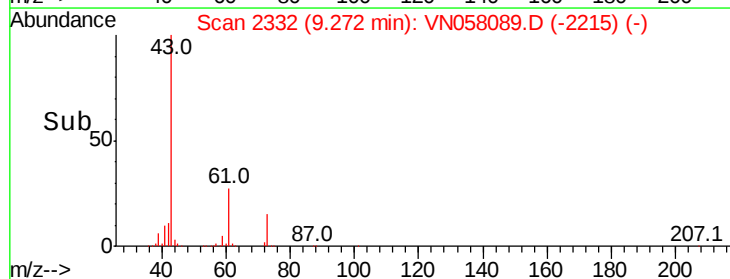
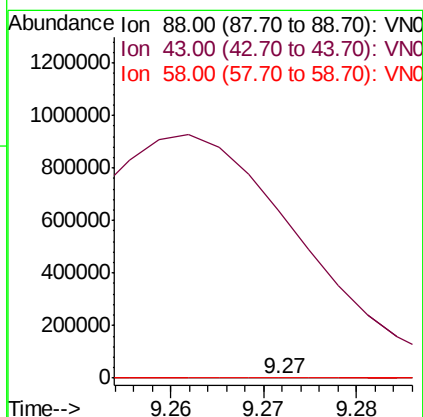
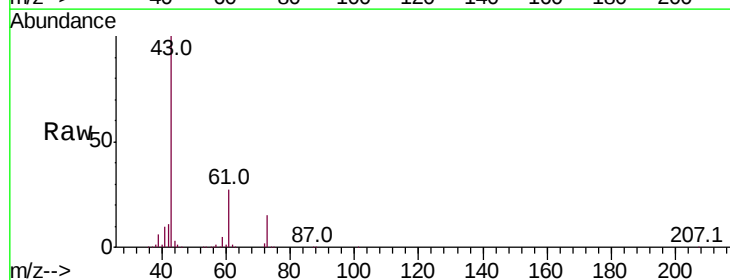
Instrument :
MSVOA_N
ClientSampled :

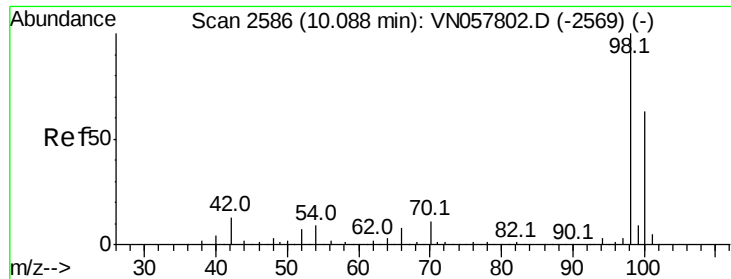
Tot Ion: 41 Resp: 5166
Ion Ratio Lower Upper
41 100
69 0.0 62.7 94.1#
39 0.0 52.7 79.1#



#49
1,4-Dioxane
Concen: 0.721 ug/l
RT: 9.27 min Scan# 2332
Delta R.T. 0.08 min
Lab File: VN058089.D
Acq: 15 Sep 2019 14:16

Tgt Ion: 88 Resp: 66
Ion Ratio Lower Upper
88 100
43 2592947.0 28.5 42.7#
58 11745.5 55.8 83.6#





#50

Toluene-d8

Concen: 52.524 ug/l

RT: 10.09 min Scan# 2585

Delta R.T. -0.00 min

Lab File: VN058089.D

Acq: 15 Sep 2019 14:16

Instrument :

MSVOA_N

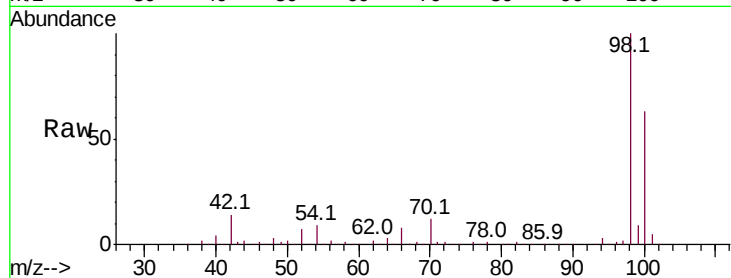
ClientSampleId :

Tot Ion: 98 Resp: 996995

Ion Ratio Lower Upper

98 100

100 63.4 50.3 75.5



Abundance Ion 98.00 (97.70 to 98.70): VN057802.D (-2569) (-)

Ion 100.00 (99.70 to 100.70): VN057802.D (-2569) (-)

10.09

600000

500000

400000

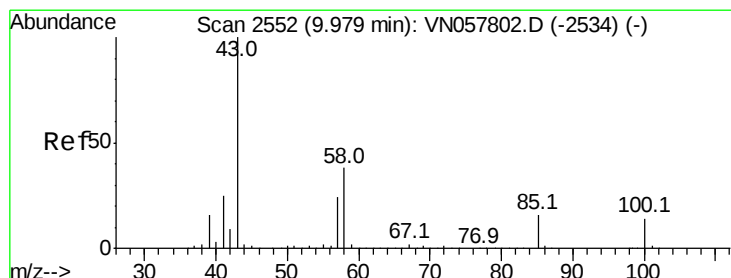
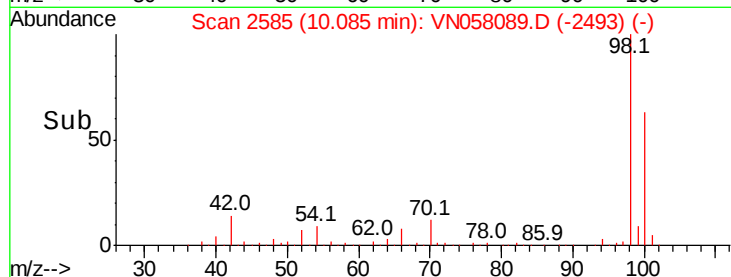
300000

200000

100000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.319 ug/l

RT: 9.98 min Scan# 2552

Delta R.T. 0.00 min

Lab File: VN058089.D

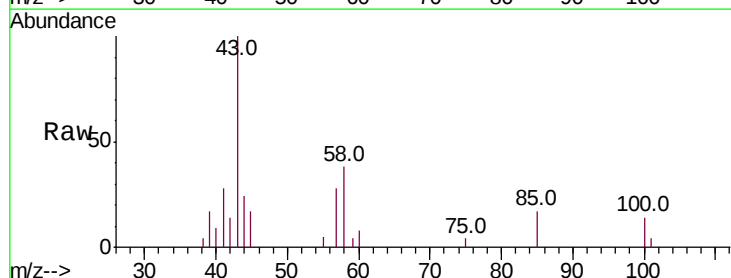
Acq: 15 Sep 2019 14:16

Tgt Ion: 43 Resp: 8329

Ion Ratio Lower Upper

43 100

58 37.0 29.8 44.6



Abundance Ion 43.00 (42.70 to 43.70): VN057802.D (-2534) (-)

Ion 58.00 (57.70 to 58.70): VN057802.D (-2534) (-)

9.98

10000

8000

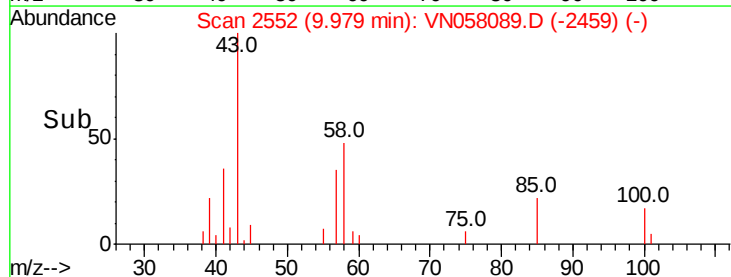
6000

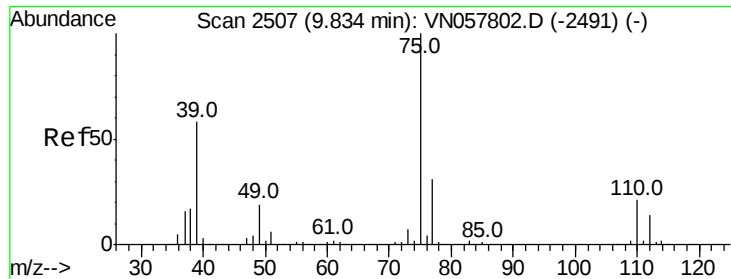
4000

2000

0

Time-->





#54

cis-1,3-Dichloropropene

Concen: 6.317 ug/l

RT: 9.90 min Scan# 2528

Delta R.T. 0.07 min

Lab File: VN058089.D

Acq: 15 Sep 2019 14:16

Instrument :

MSVOA_N

ClientSampleId :

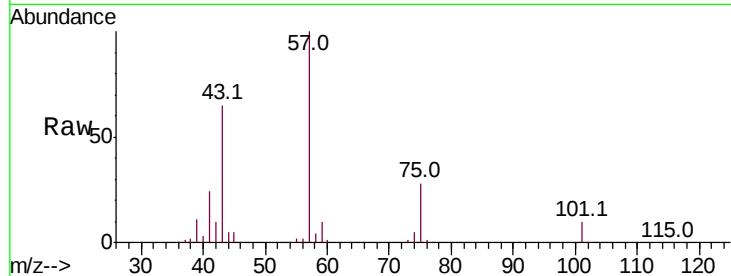
Tot Ion: 75 Resp: 47692

Ion Ratio Lower Upper

75 100

77 0.8 24.8 37.2#

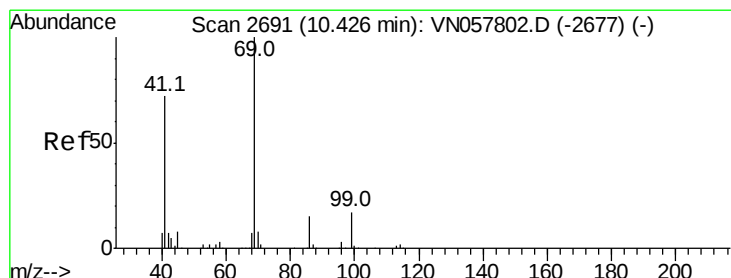
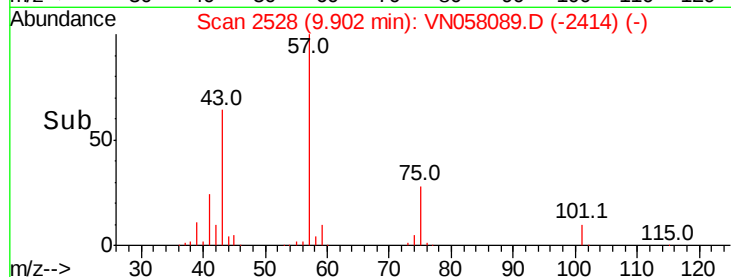
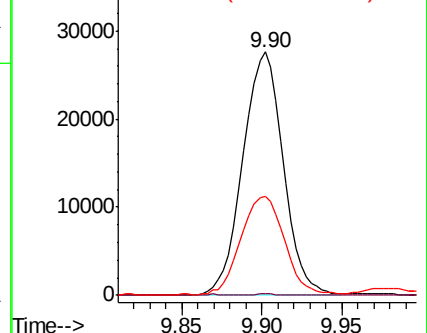
39 40.8 46.2 69.4#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0



#56

Ethyl methacrylate

Concen: 0.325 ug/l

RT: 10.54 min Scan# 2728

Delta R.T. 0.12 min

Lab File: VN058089.D

Acq: 15 Sep 2019 14:16

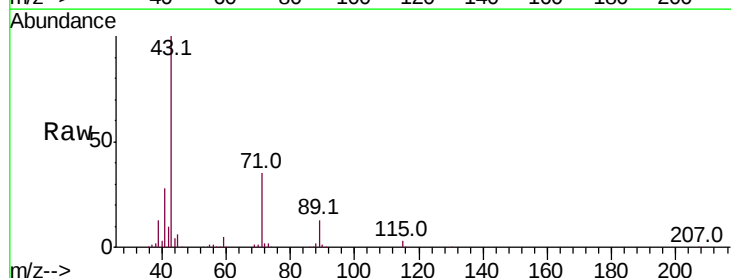
Tgt Ion: 69 Resp: 2417

Ion Ratio Lower Upper

69 100

41 5288.4 56.7 85.1#

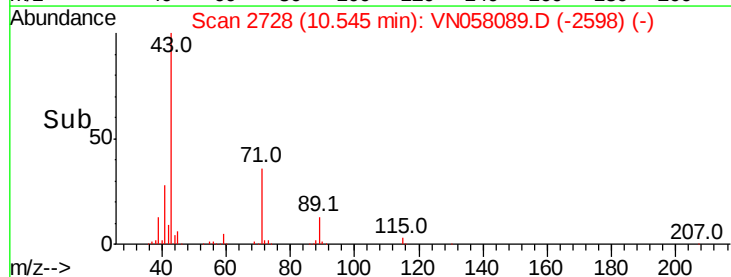
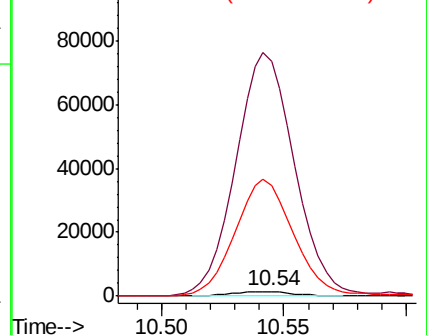
39 2506.9 36.3 54.5#

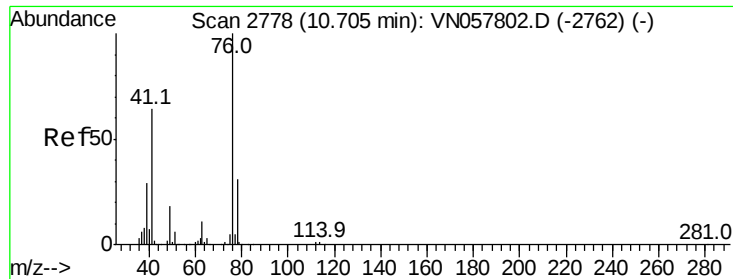


Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





#57

1,3-Dichloropropane

Concen: 0.783 ug/l

RT: 10.76 min Scan# 2795

Delta R.T. 0.05 min

Lab File: VN058089.D

Acq: 15 Sep 2019 14:16

Instrument :

MSVOA_N

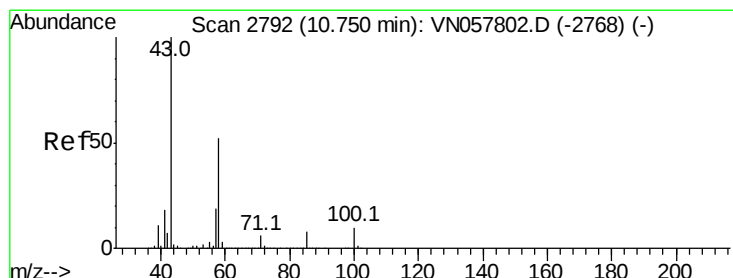
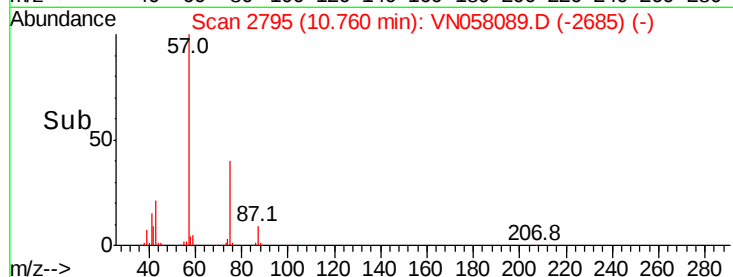
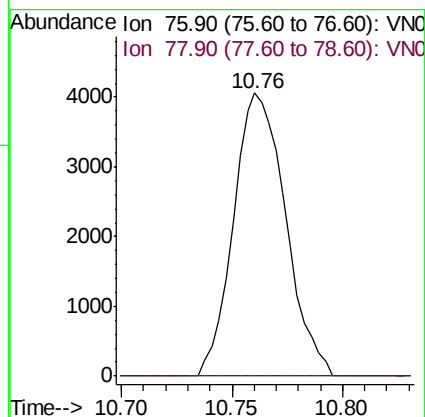
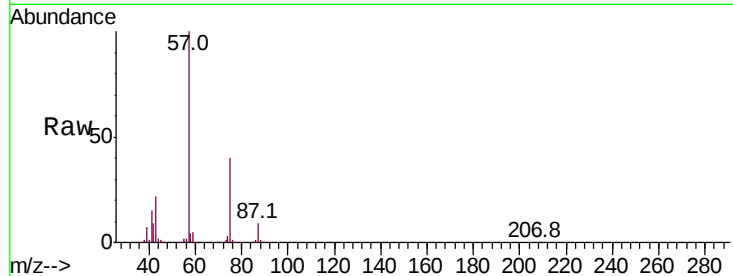
ClientSampleId :

Tot Ion: 76 Resp: 6659

Ion Ratio Lower Upper

76 100

78 0.0 25.4 38.2#



#59

2-Hexanone

Concen: 22.374 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN058089.D

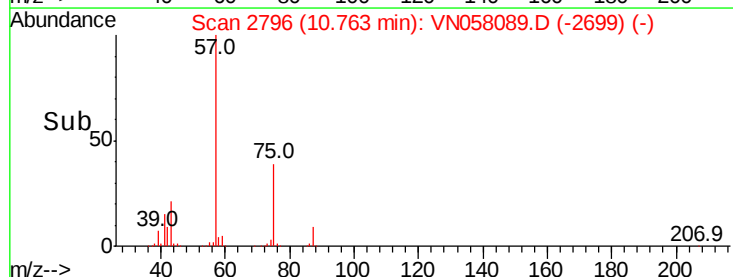
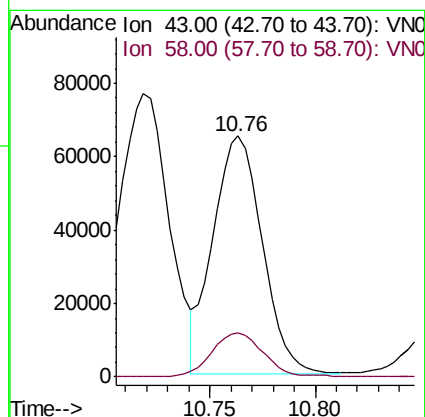
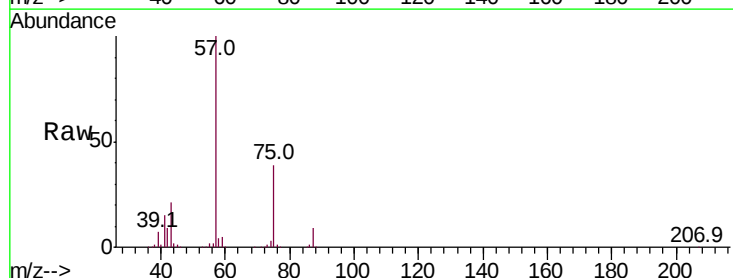
Acq: 15 Sep 2019 14:16

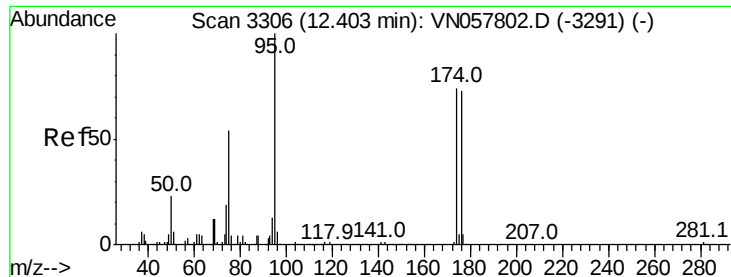
Tgt Ion: 43 Resp: 105925

Ion Ratio Lower Upper

43 100

58 19.3 25.6 76.8#





#62

4-Bromofluorobenzene

Concen: 46.029 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.00 min

Lab File: VN058089.D

Acq: 15 Sep 2019 14:16

Instrument :

MSVOA_N

ClientSampled :

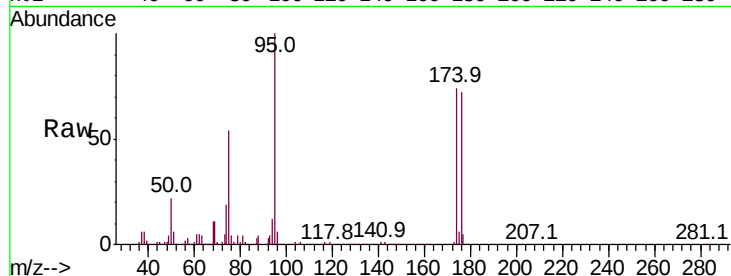
Tot Ion: 95 Resp: 332960

Ion Ratio Lower Upper

95 100

174 75.3 0.0 150.2

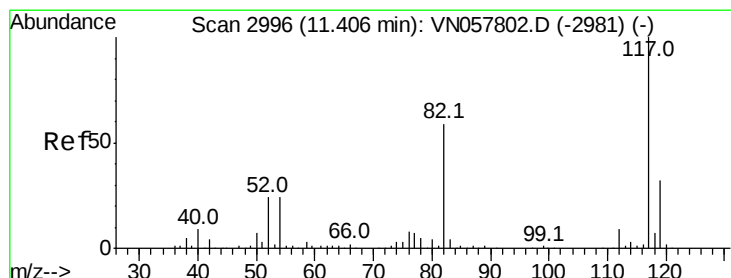
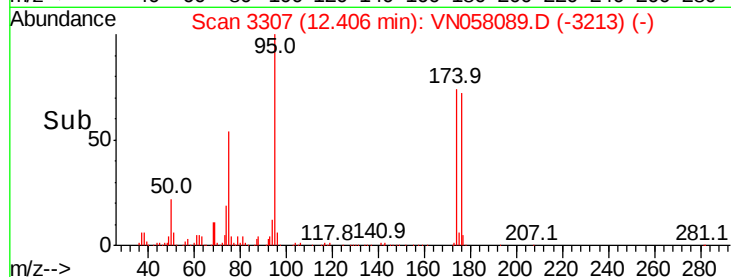
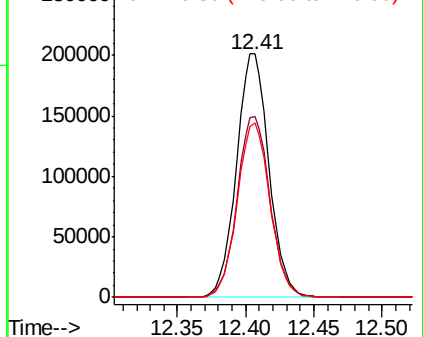
176 72.2 0.0 146.0



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): VN0

Ion 175.80 (175.50 to 176.50): VN0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN058089.D

Acq: 15 Sep 2019 14:16

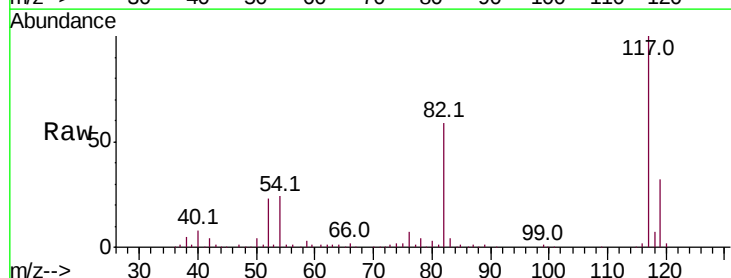
Tgt Ion: 117 Resp: 496251

Ion Ratio Lower Upper

117 100

82 58.8 47.2 70.8

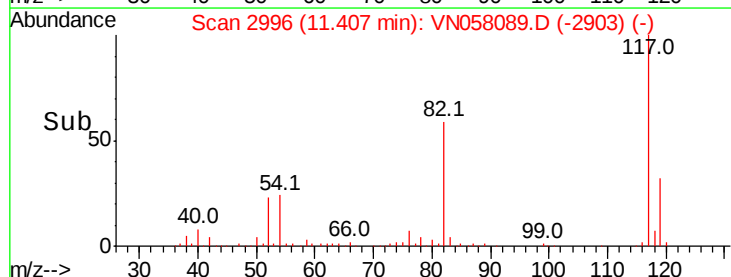
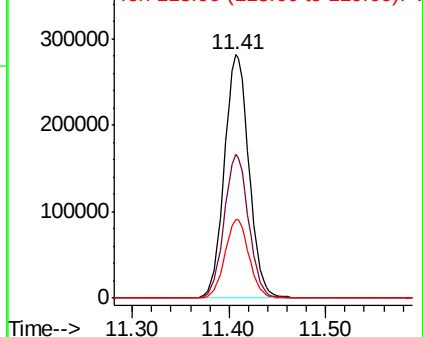
119 32.2 25.3 37.9

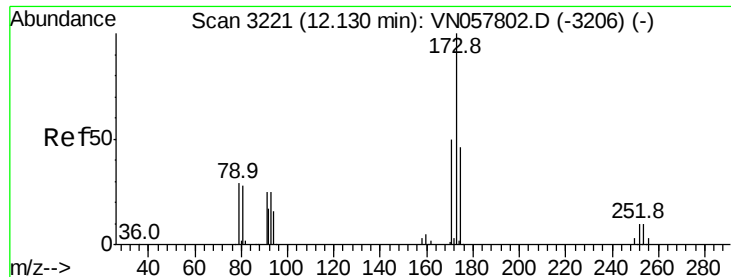


Abundance Ion 116.90 (116.60 to 117.60): VN0

Ion 82.00 (81.70 to 82.70): VN0

Ion 118.90 (118.60 to 119.60): VN0





#71

Bromoform

Concen: 0.813 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.27 min

Lab File: VN058089.D

Acq: 15 Sep 2019 14:16

Instrument :

MSVOA_N

ClientSampleId :

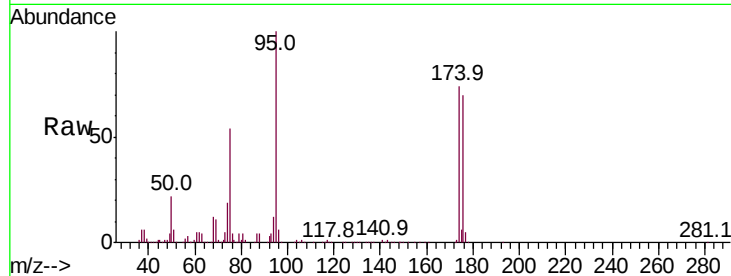
Tot Ion:173 Resp: 2283

Ion Ratio Lower Upper

173 100

175 748.1 23.5 70.6#

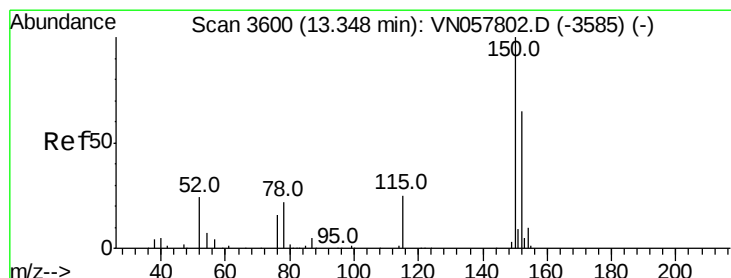
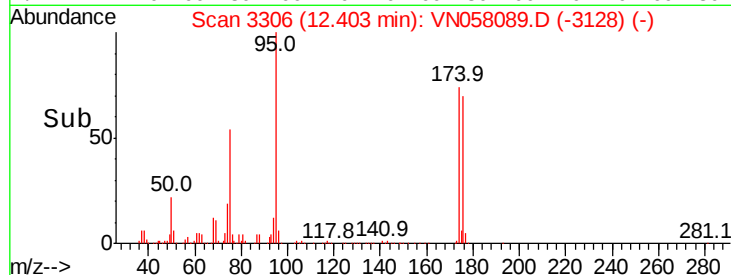
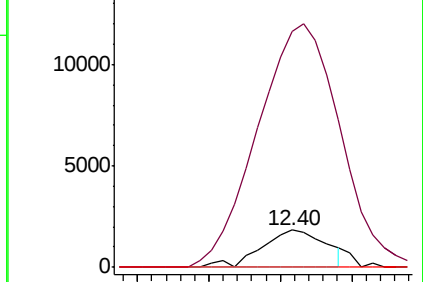
254 0.0 0.1 0.1#



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# 3600

Delta R.T. 0.00 min

Lab File: VN058089.D

Acq: 15 Sep 2019 14:16

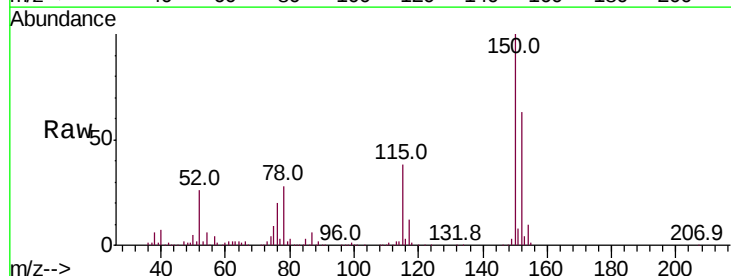
Tgt Ion:152 Resp: 258370

Ion Ratio Lower Upper

152 100

115 61.8 30.3 91.0

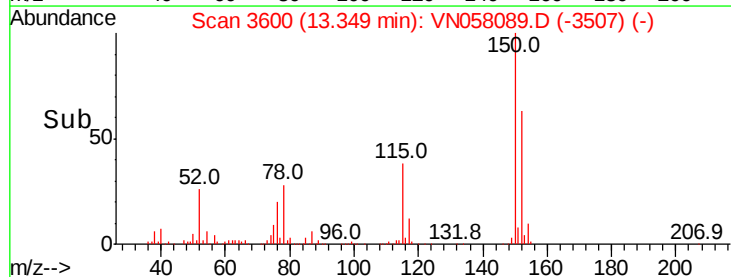
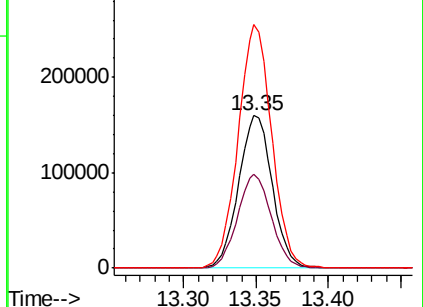
150 158.7 0.0 352.4

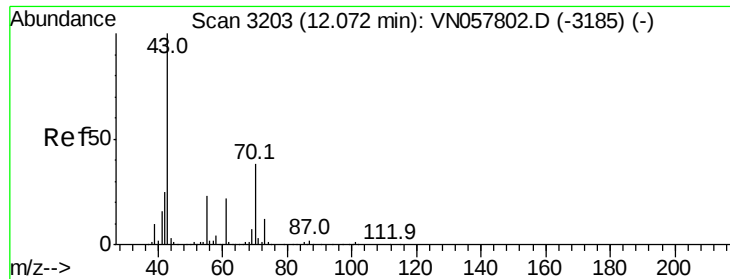


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amyl acetate

Concen: 0.515 ug/l

RT: 12.03 min Scan# 3191

Delta R.T. -0.04 min

Lab File: VN058089.D

Acq: 15 Sep 2019 14:16

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 43 Resp: 4490

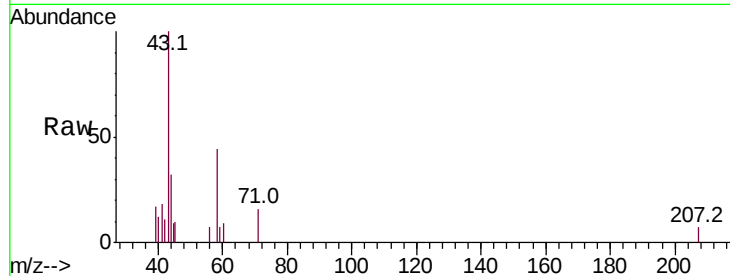
Ion Ratio Lower Upper

43 100

70 0.0 30.6 45.8#

55 2.3 18.6 27.8#

61 0.0 17.4 26.2#

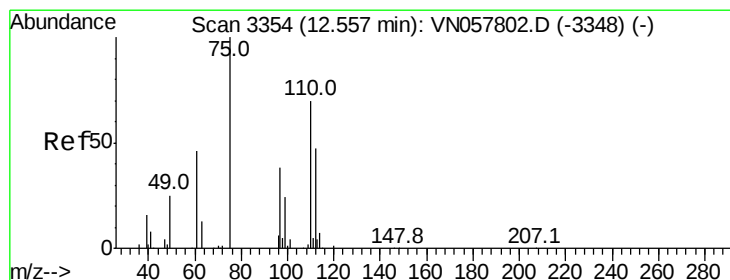
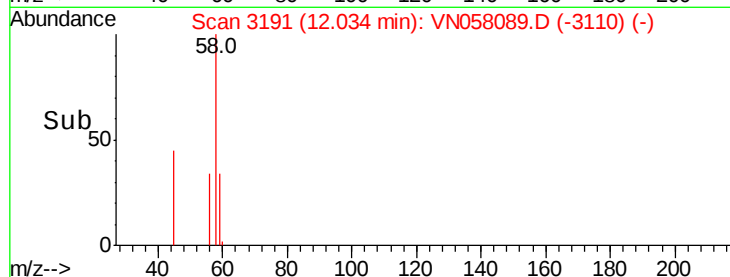
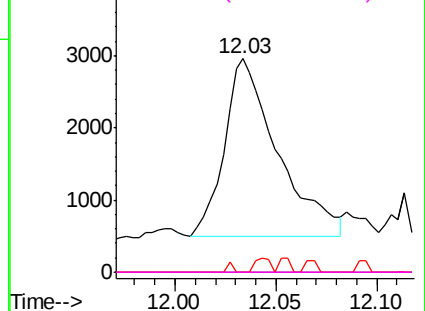


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#76

1,2,3-Trichloropropane

Concen: 31.622 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN058089.D

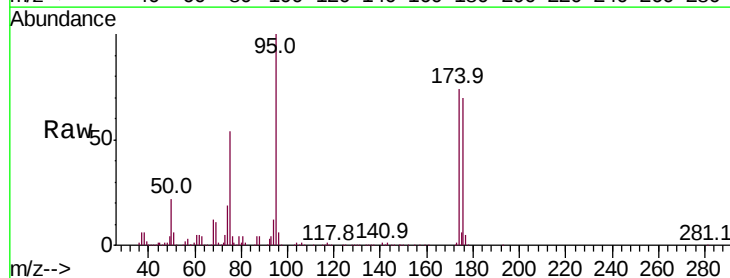
Acq: 15 Sep 2019 14:16

Tgt Ion: 75 Resp: 184825

Ion Ratio Lower Upper

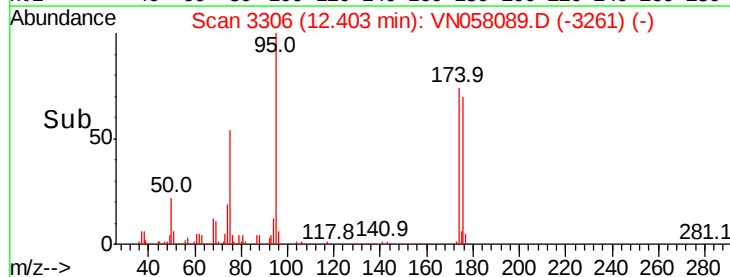
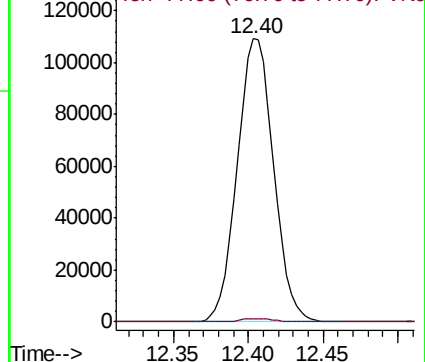
75 100

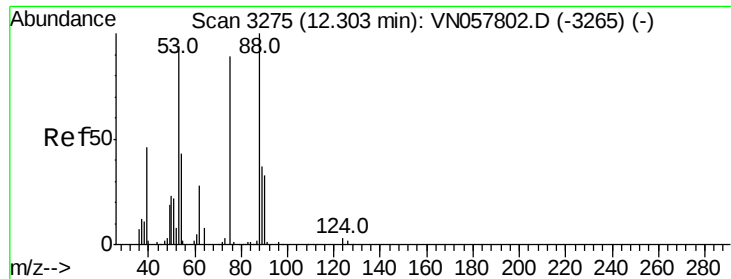
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#81

trans-1,4-Dichloro-2-butene

Concen: 111.279 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN058089.D

Acq: 15 Sep 2019 14:16

Instrument :

MSVOA_N

ClientSampleId :

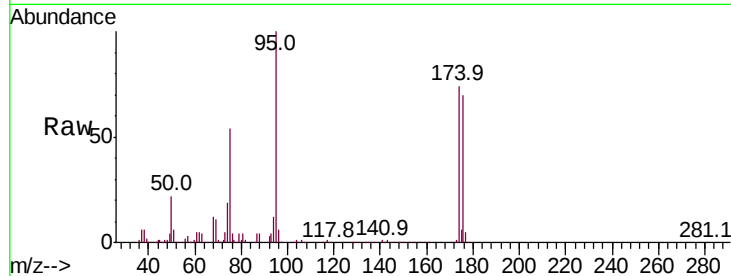
Tot Ion: 75 Resp: 184825

Ion Ratio Lower Upper

75 100

53 0.0 88.4 132.6#

89 0.0 35.3 52.9#



Abundance Ion 74.90 (74.60 to 75.60): VN058089.D (-3306) (-)

150000

Ion 53.00 (52.70 to 53.70): VN058089.D (-3306) (-)

Ion 88.90 (88.60 to 89.60): VN058089.D (-3306) (-)

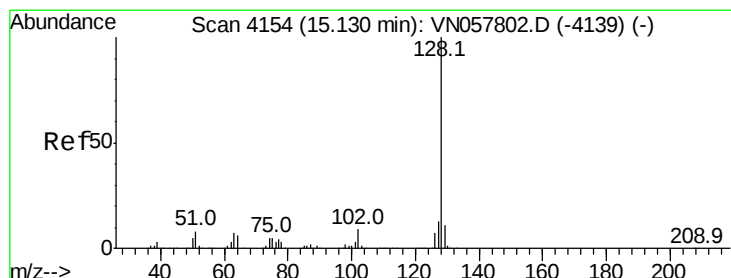
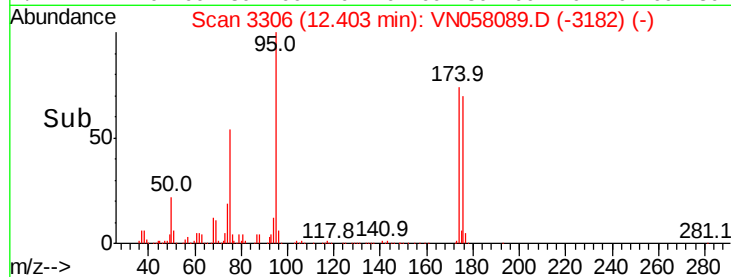
12.40

100000

50000

0

Time-->



#95

Naphthalene

Concen: Below Cal

RT: 15.14 min Scan# 4157

Delta R.T. 0.01 min

Lab File: VN058089.D

Acq: 15 Sep 2019 14:16

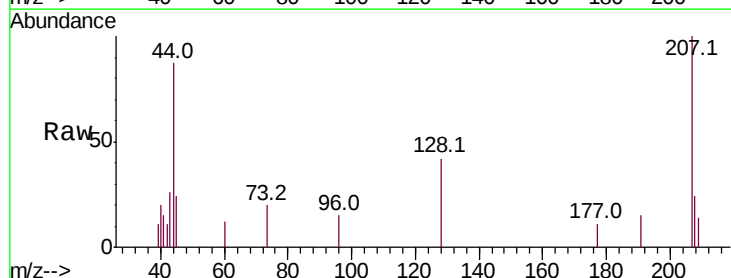
Tgt Ion: 128 Resp: 1130

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

129 0.0 8.6 12.8#



Abundance Ion 128.00 (127.70 to 128.70): VN058089.D (-4157) (-)

800

Ion 127.00 (126.70 to 127.70): VN058089.D (-4157) (-)

Ion 129.00 (128.70 to 129.70): VN058089.D (-4157) (-)

15.14

600

400

200

0

Time-->

