

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091519\
 Data File : VN058091.D
 Acq On : 15 Sep 2019 15:00
 Operator : JC/SP
 Sample : K4695-25
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 16 03:41:22 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	324588	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	546587	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	502436	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	268056	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	370455	56.35	ug/l	0.00
Spiked Amount			Recovery	=	112.70%	
35) Dibromofluoromethane	7.58	113	258261	51.19	ug/l	0.00
Spiked Amount			Recovery	=	102.38%	
50) Toluene-d8	10.08	98	1001320	51.12	ug/l	0.00
Spiked Amount			Recovery	=	102.24%	
62) 4-Bromofluorobenzene	12.41	95	338398	45.34	ug/l	0.00
Spiked Amount			Recovery	=	90.68%	

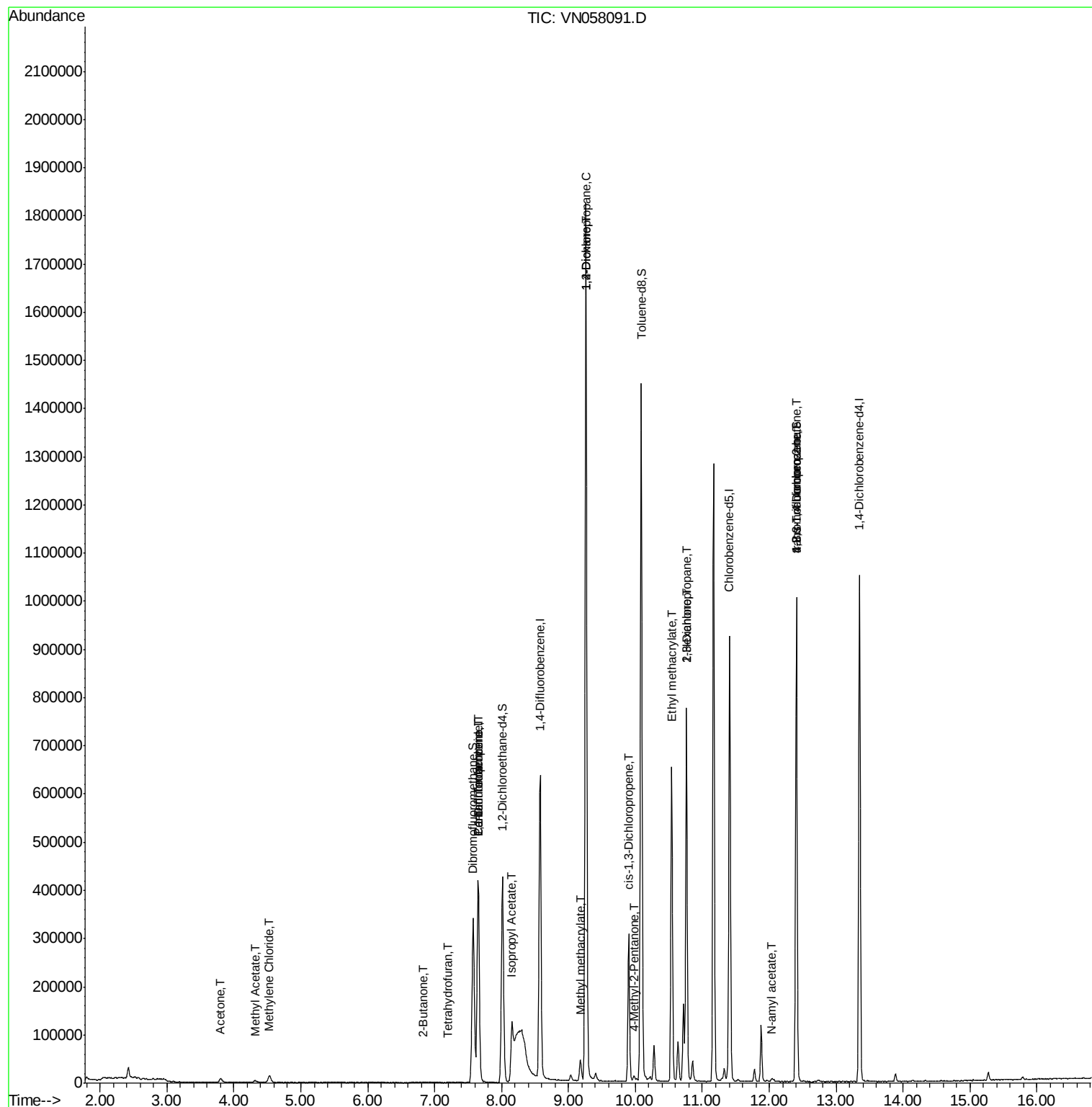
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.55	94	62	Below Cal	#	2
16) Acetone	3.80	43	13719	6.366	ug/l	100
18) Methyl Acetate	4.31	43	8394	1.461	ug/l	95
20) Methylene Chloride	4.53	84	10116	1.266	ug/l	94
25) 2-Butanone	6.83	43	1588	0.509	ug/l #	66
29) Tetrahydrofuran	7.19	42	909	0.473	ug/l #	50
31) Cyclohexane	7.65	56	8064	Below Cal	#	1
36) 1,1-Dichloropropene	7.65	75	28239	4.455	ug/l #	50
38) Carbon Tetrachloride	7.65	117	31602	5.460	ug/l #	15
43) Isopropyl Acetate	8.16	43	168537	15.302	ug/l #	81
45) 1,2-Dichloropropane	9.26	63	2312	0.416	ug/l #	44
48) Methyl methacrylate	9.17	41	6262	1.121	ug/l #	13
49) 1,4-Dioxane	9.26	88	242	2.561	ug/l #	1
51) 4-Methyl-2-Pentanone	9.98	43	8492	1.303	ug/l	98
54) cis-1,3-Dichloropropene	9.90	75	50795	6.520	ug/l #	66
56) Ethyl methacrylate	10.54	69	2457	0.320	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	7122	0.812	ug/l #	43
59) 2-Hexanone	10.76	43	115802	23.705	ug/l #	53
74) N-amyl acetate	12.03	43	4388	0.485	ug/l #	49
76) 1,2,3-Trichloropropane	12.40	75	186798	30.805	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	186798	108.403	ug/l #	6
95) Naphthalene	15.13	128	1042	Below Cal	#	73

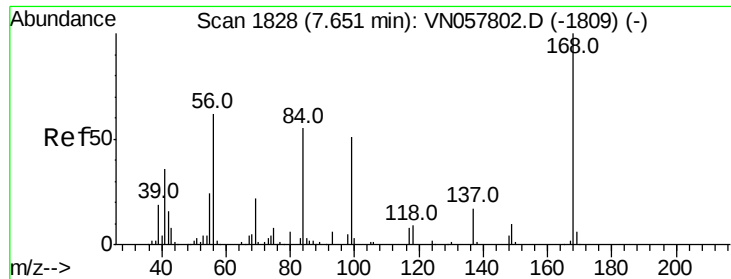
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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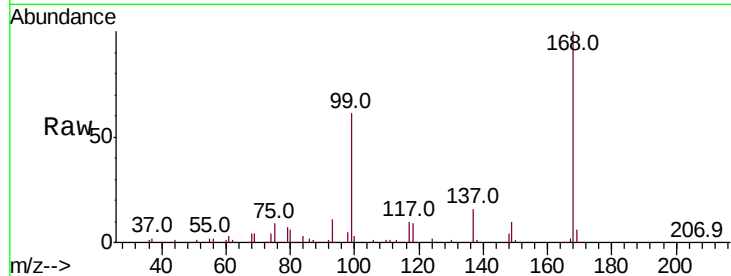




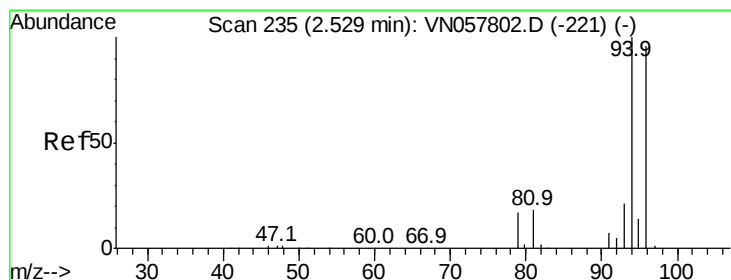
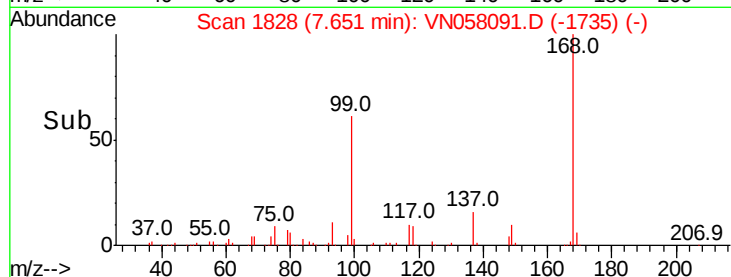
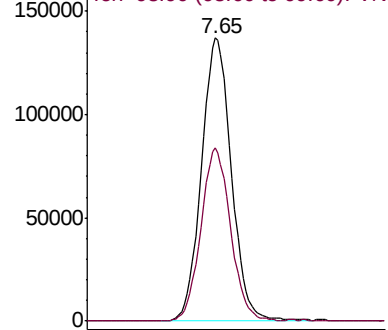
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.65 min Scan# 1828
Delta R.T. 0.00 min
Lab File: VN058091.D
Acq: 15 Sep 2019 15:00

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 324588
Ion Ratio Lower Upper
168 100
99 61.1 48.0 72.0

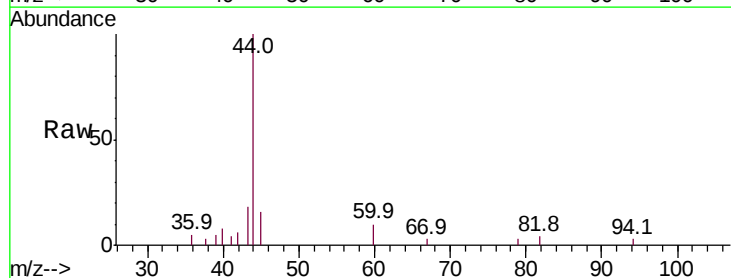


Abundance Ion 167.90 (167.60 to 168.60): VN058091.D (-1735) (-)
Ion 98.90 (98.60 to 99.60): VN058091.D (-1735) (-)

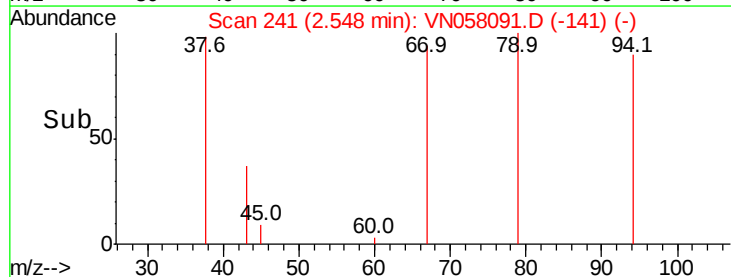
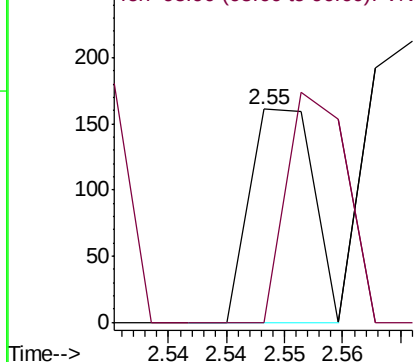


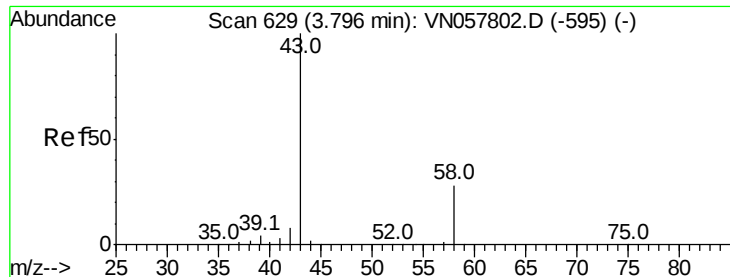
#5
Bromomethane
Concen: Below Cal
RT: 2.55 min Scan# 241
Delta R.T. 0.02 min
Lab File: VN058091.D
Acq: 15 Sep 2019 15:00

Tgt Ion: 94 Resp: 62
Ion Ratio Lower Upper
94 100
96 0.0 77.0 115.4#



Abundance Ion 93.90 (93.60 to 94.60): VN058091.D (-141) (-)
Ion 95.90 (95.60 to 96.60): VN058091.D (-141) (-)





#16

Acetone

Concen: 6.366 ug/l

RT: 3.80 min Scan# 630

Delta R.T. 0.00 min

Lab File: VN058091.D

Acq: 15 Sep 2019 15:00

Instrument :

MSVOA_N

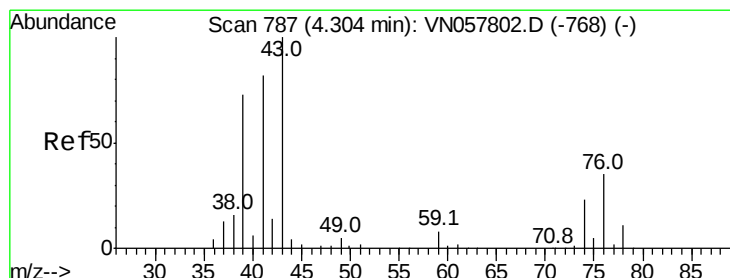
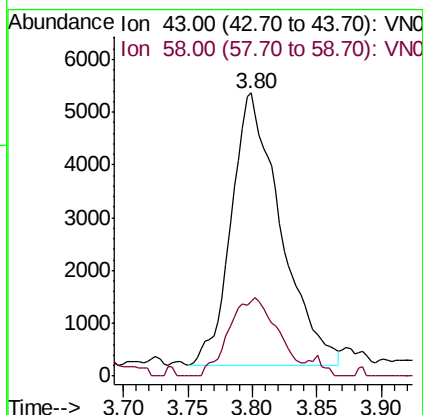
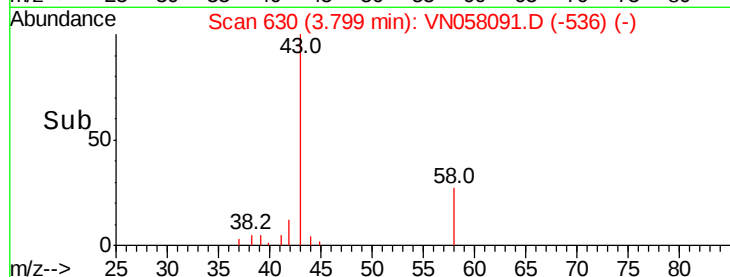
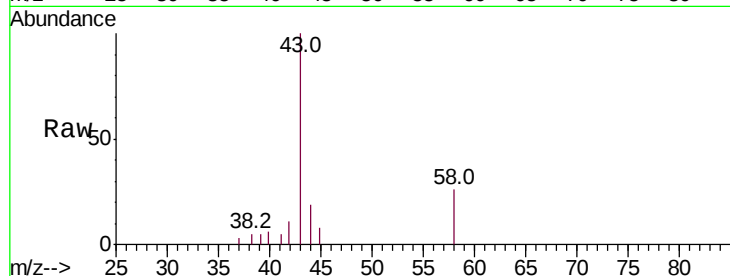
ClientSampled :

Tot Ion: 43 Resp: 13719

Ion Ratio Lower Upper

43 100

58 27.5 22.2 33.2



#18

Methyl Acetate

Concen: 1.461 ug/l

RT: 4.31 min Scan# 790

Delta R.T. 0.01 min

Lab File: VN058091.D

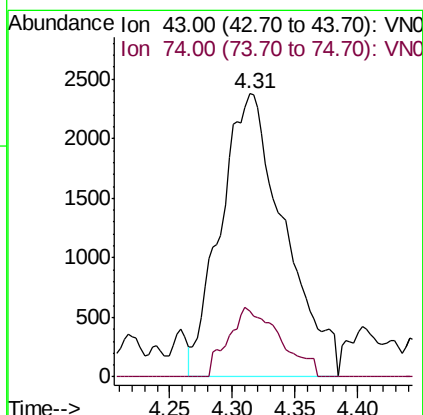
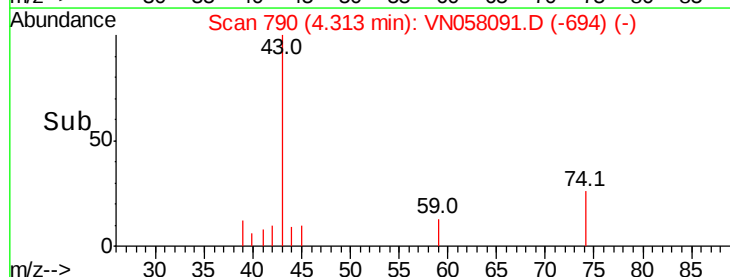
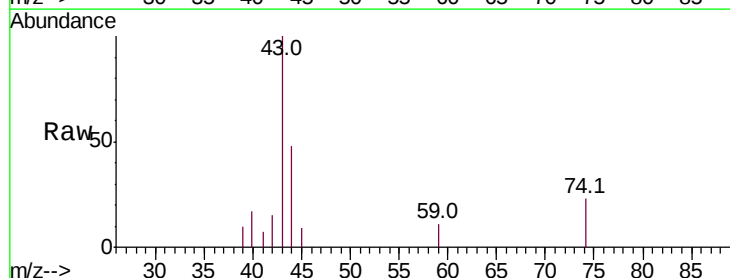
Acq: 15 Sep 2019 15:00

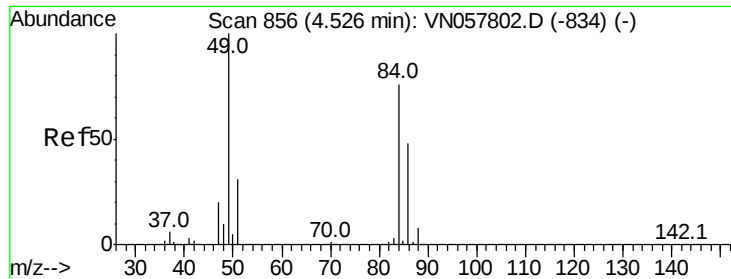
Tgt Ion: 43 Resp: 8394

Ion Ratio Lower Upper

43 100

74 19.9 17.9 26.9

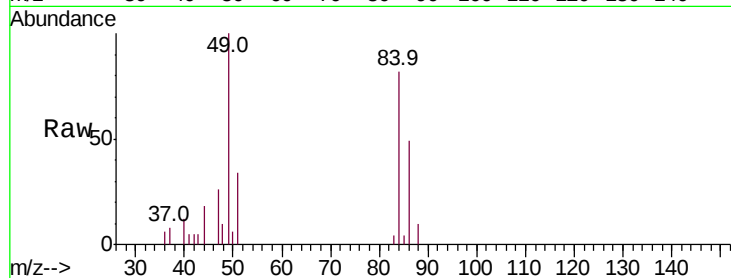




#20
Methvlene Chloride
Concen: 1.266 ug/l
RT: 4.53 min Scan# 856
Delta R.T. 0.00 min
Lab File: VN058091.D
Acq: 15 Sep 2019 15:00

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:	84	Resp:	10116
Ion	Ratio	Lower	Upper
84	100		
49	121.3	104.8	157.2
51	41.6	33.0	49.4
86	58.9	50.5	75.7



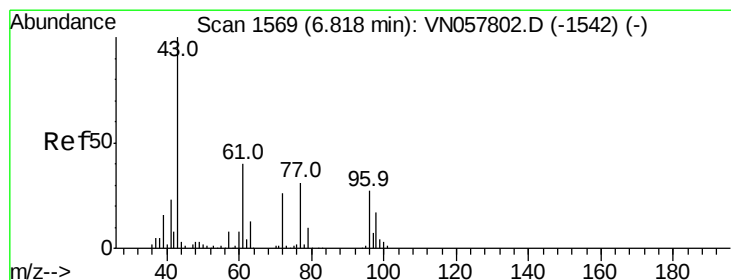
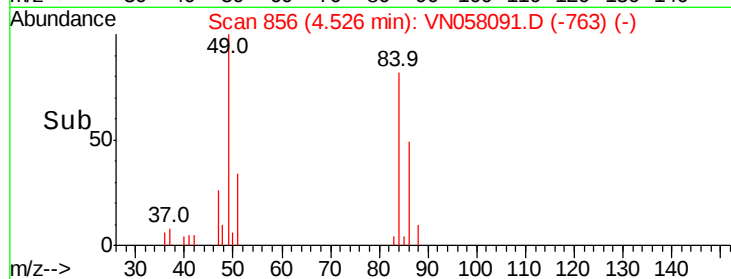
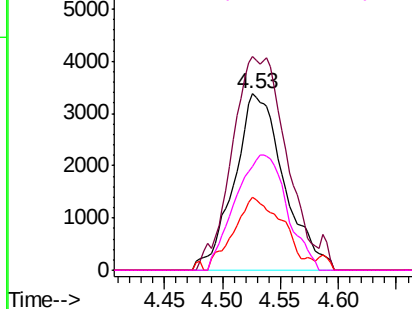
Abundance

Ion 83.90 (83.60 to 84.60): VNO

Ion 48.90 (48.60 to 49.60): VNO

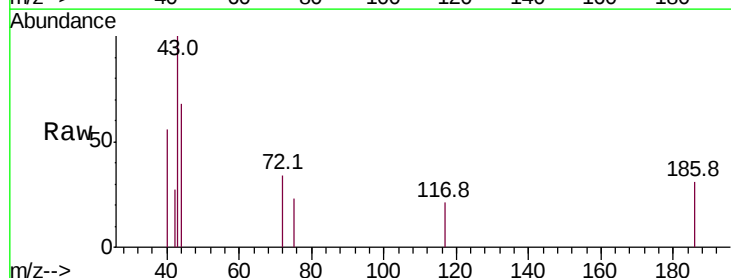
Ion 50.90 (50.60 to 51.60): VNO

Ion 85.90 (85.60 to 86.60): VNO



#25
2-Butanone
Concen: 0.509 ug/l
RT: 6.83 min Scan# 1572
Delta R.T. 0.01 min
Lab File: VN058091.D
Acq: 15 Sep 2019 15:00

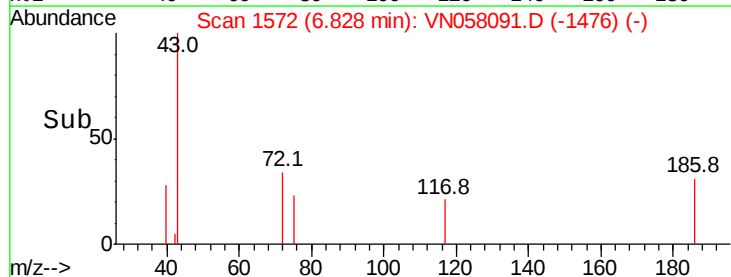
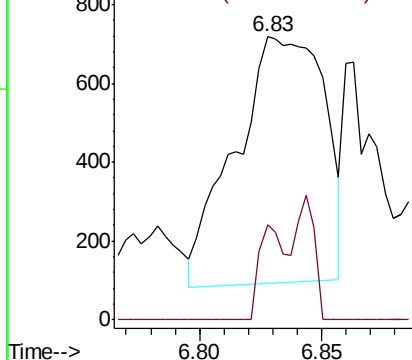
Tgt Ion:	43	Resp:	1588
Ion	Ratio	Lower	Upper
43	100		
72	42.8	20.6	30.8#

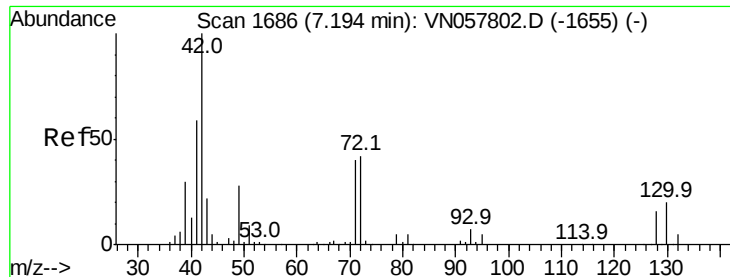


Abundance

Ion 43.00 (42.70 to 43.70): VNO

Ion 72.00 (71.70 to 72.70): VNO





#29

Tetrahydrofuran

Concen: 0.473 ug/l

RT: 7.19 min Scan# 1685

Delta R.T. -0.00 min

Lab File: VN058091.D

Acq: 15 Sep 2019 15:00

Instrument :

MSVOA_N

ClientSampleId :

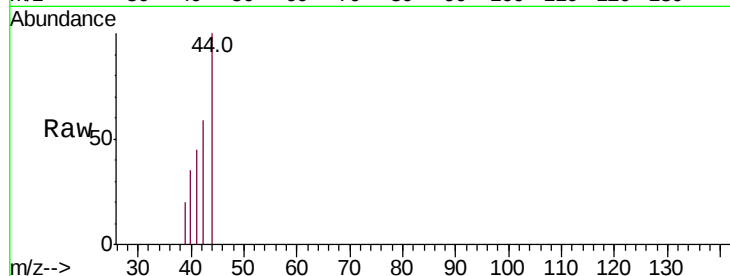
Tot Ion: 42 Resp: 909

Ion Ratio Lower Upper

42 100

72 18.8 33.7 50.5#

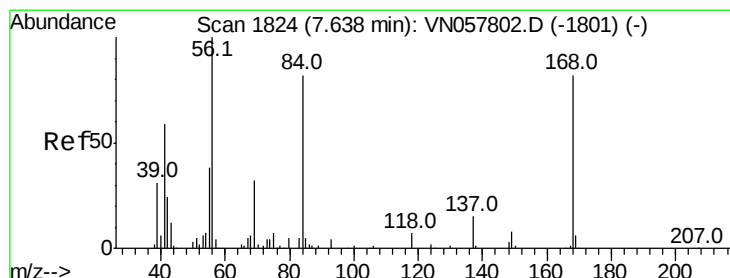
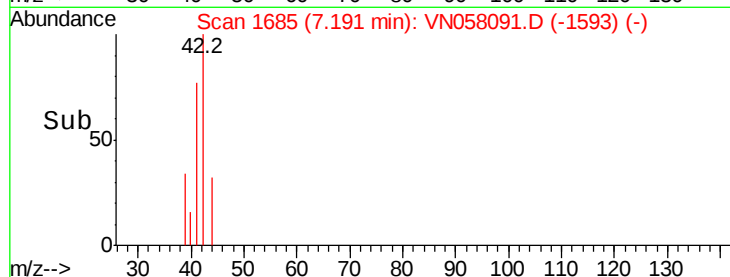
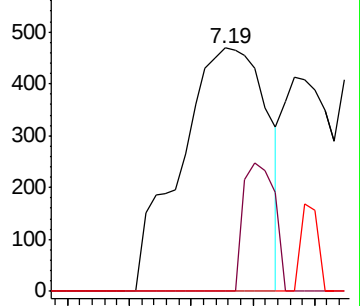
71 0.0 31.9 47.9#



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0



#31

Cyclohexane

Concen: Below Cal

RT: 7.65 min Scan# 1827

Delta R.T. 0.01 min

Lab File: VN058091.D

Acq: 15 Sep 2019 15:00

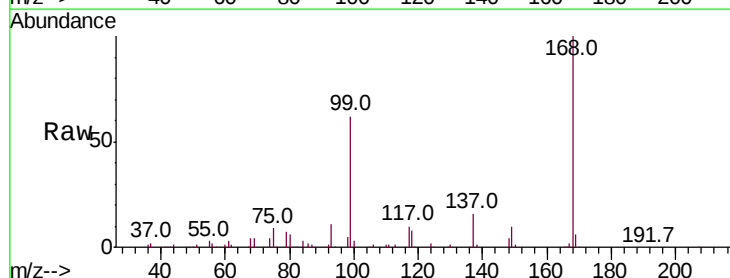
Tgt Ion: 56 Resp: 8064

Ion Ratio Lower Upper

56 100

69 170.3 25.9 38.9#

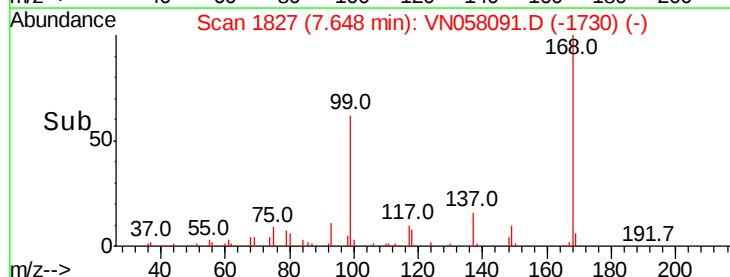
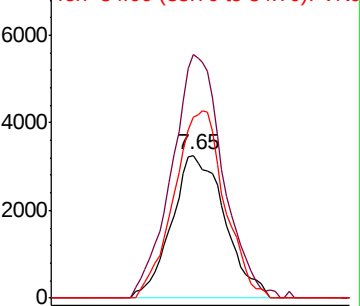
84 126.7 65.6 98.4#

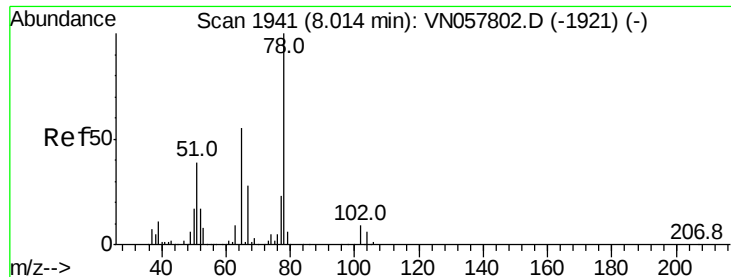


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

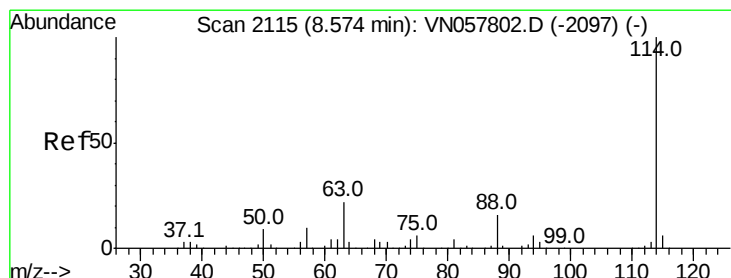
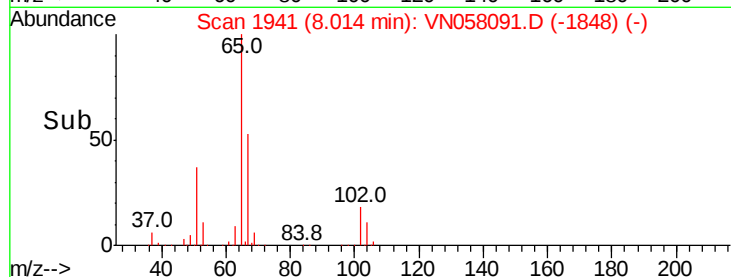
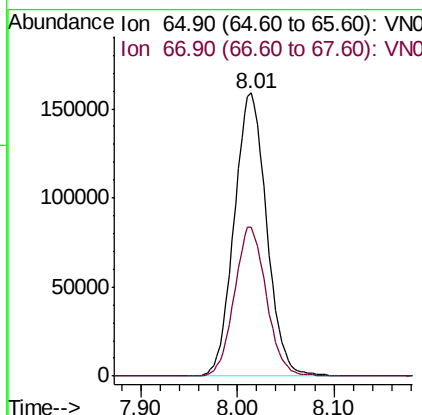
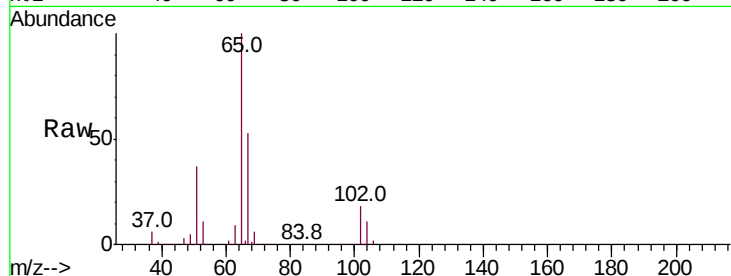




#33
 1,2-Dichloroethane-d4
 Concen: 56.349 ug/l
 RT: 8.01 min Scan# 1941
 Delta R.T. 0.00 min
 Lab File: VN058091.D
 Acq: 15 Sep 2019 15:00

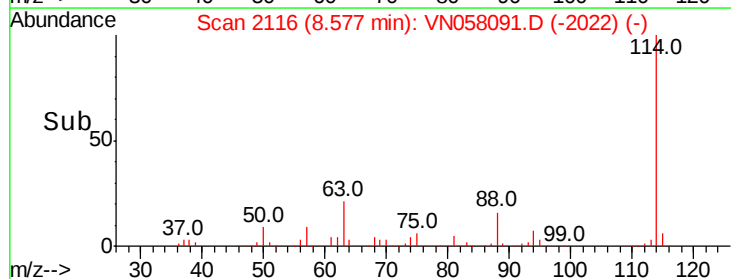
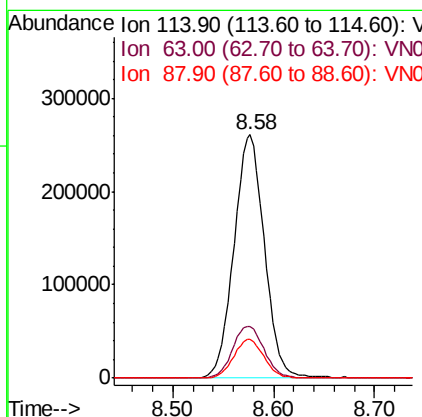
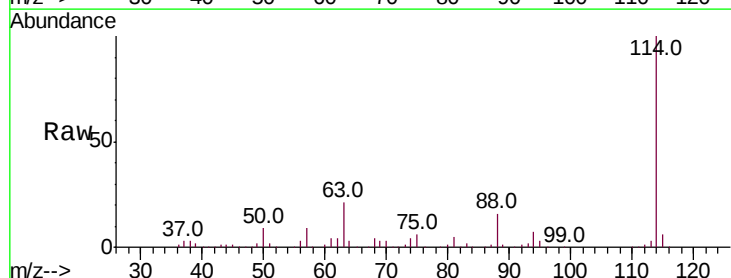
Instrument :
 MSVOA_N
 ClientSampleId :

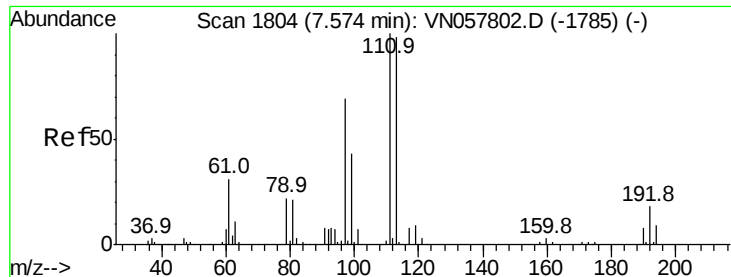
Tot Ion: 65 Resp: 370455
 Ion Ratio Lower Upper
 65 100
 67 52.0 0.0 104.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2116
 Delta R.T. 0.00 min
 Lab File: VN058091.D
 Acq: 15 Sep 2019 15:00

Tgt Ion: 114 Resp: 546587
 Ion Ratio Lower Upper
 114 100
 63 21.2 0.0 44.0
 88 15.8 0.0 31.4

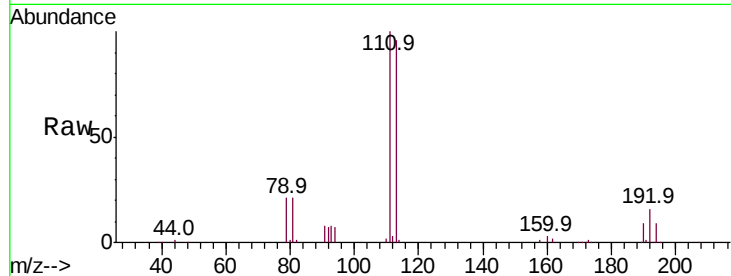




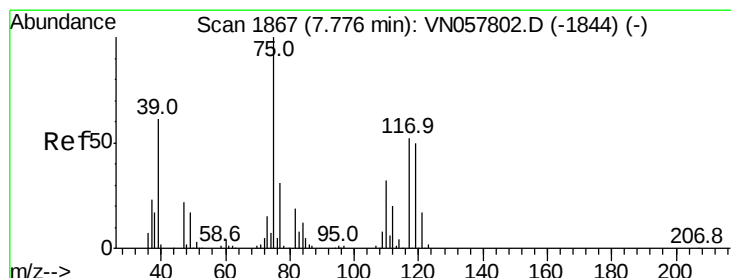
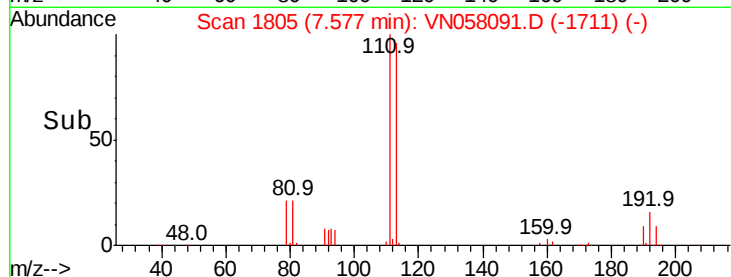
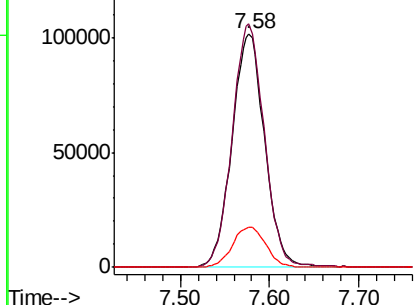
#35
 Dibromofluoromethane
 Concen: 51.194 ug/l
 RT: 7.58 min Scan# 1805
 Delta R.T. 0.00 min
 Lab File: VN058091.D
 Acq: 15 Sep 2019 15:00

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:113 Resp: 258261
 Ion Ratio Lower Upper
 113 100
 111 102.6 81.3 121.9
 192 17.6 14.6 22.0

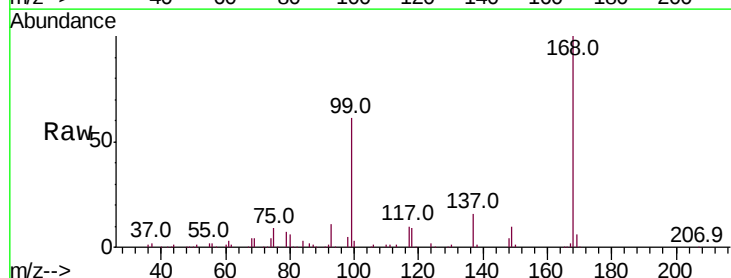


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

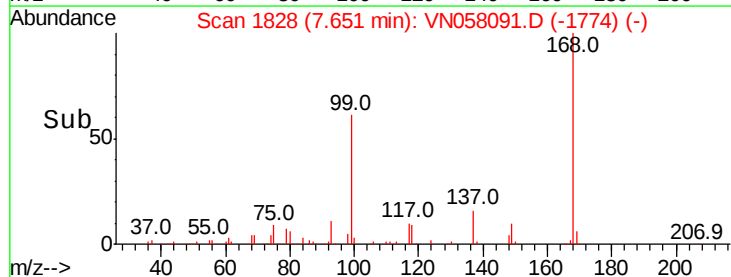
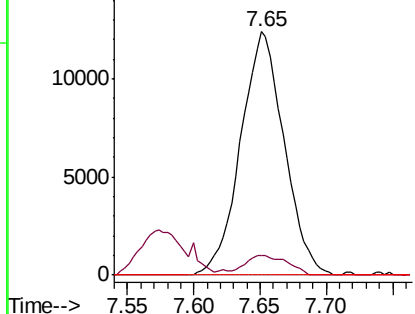


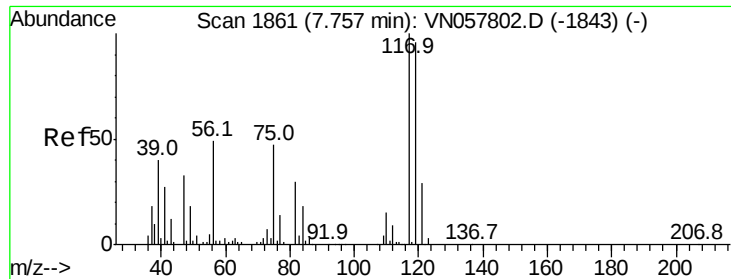
#36
 1,1-Dichloropropene
 Concen: 4.455 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.13 min
 Lab File: VN058091.D
 Acq: 15 Sep 2019 15:00

Tgt Ion: 75 Resp: 28239
 Ion Ratio Lower Upper
 75 100
 110 7.8 16.3 48.9#
 77 0.0 25.0 37.4#



Abundance Ion 74.90 (74.60 to 75.60): VNO
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VNO





#38

Carbon Tetrachloride

Concen: 5.460 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.11 min

Lab File: VN058091.D

Acq: 15 Sep 2019 15:00

Instrument :

MSVOA_N

ClientSampleId :

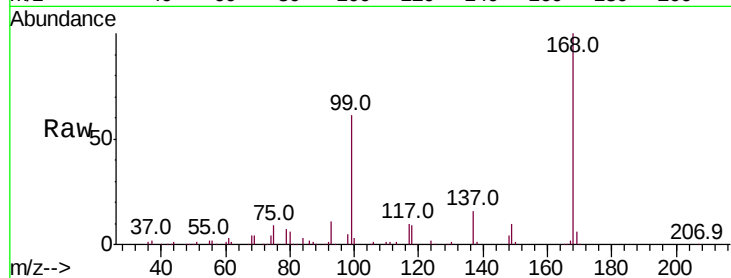
Tot Ion:117 Resp: 31602

Ion Ratio Lower Upper

117 100

119 4.3 76.9 115.3#

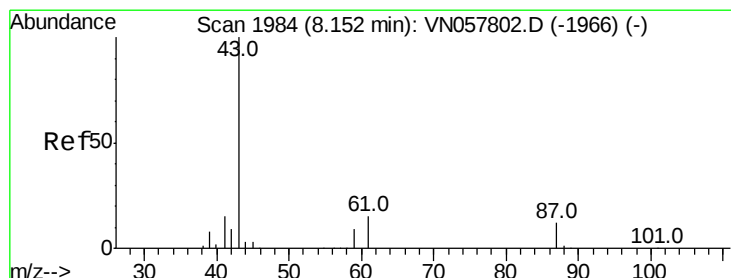
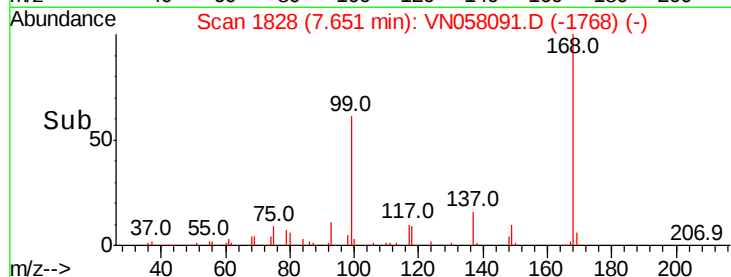
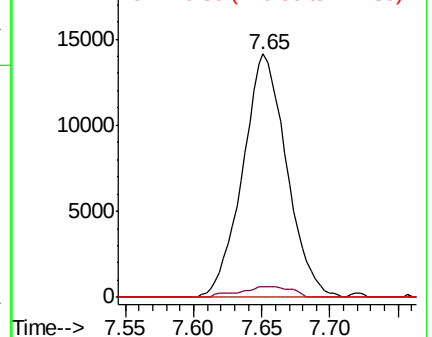
121 0.0 23.4 35.2#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 15.302 ug/l

RT: 8.16 min Scan# 1985

Delta R.T. 0.00 min

Lab File: VN058091.D

Acq: 15 Sep 2019 15:00

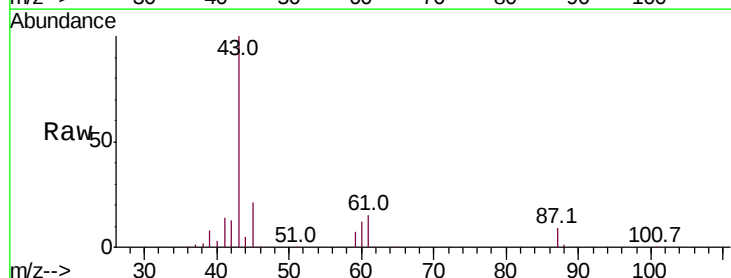
Tgt Ion: 43 Resp: 168537

Ion Ratio Lower Upper

43 100

61 13.6 20.1 30.1#

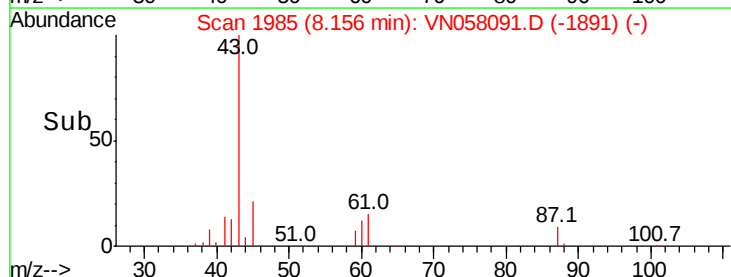
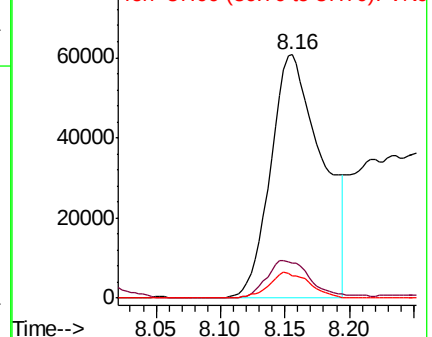
87 8.3 9.5 14.3#

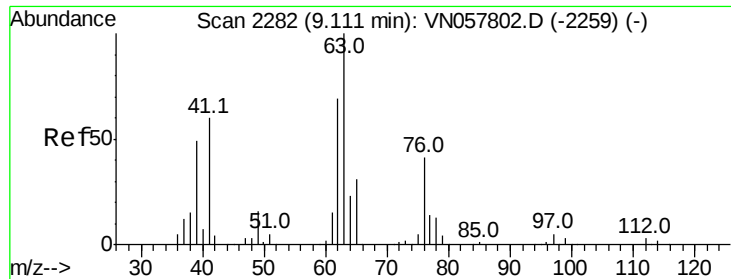


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#45

1,2-Dichloropropane

Concen: 0.416 ug/l

RT: 9.26 min Scan# 2329

Delta R.T. 0.15 min

Lab File: VN058091.D

Acq: 15 Sep 2019 15:00

Instrument :

MSVOA_N

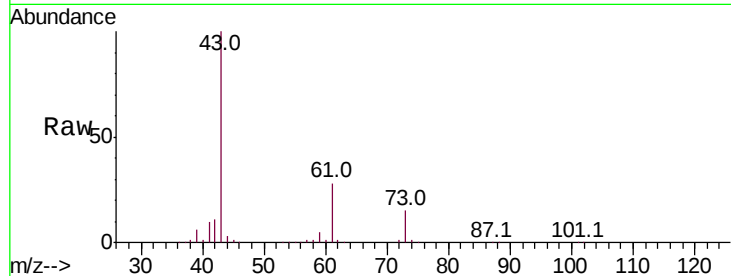
ClientSampled :

Tot Ion: 63 Resp: 2312

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

1500

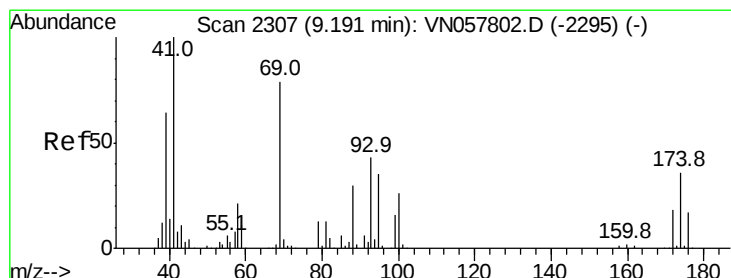
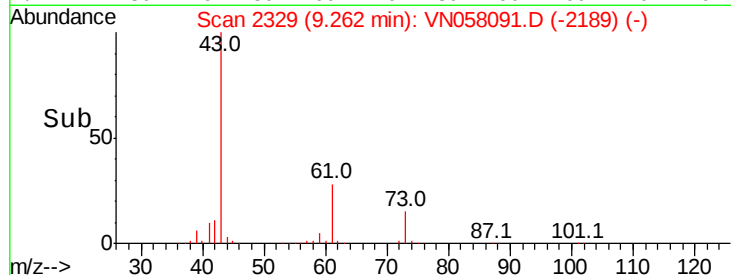
1000

500

0

9.25 9.26 9.30

Time-->



#48

Methyl methacrylate

Concen: 1.121 ug/l

RT: 9.17 min Scan# 2301

Delta R.T. -0.02 min

Lab File: VN058091.D

Acq: 15 Sep 2019 15:00

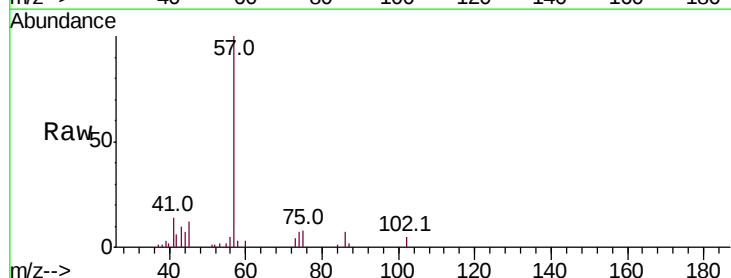
Tgt Ion: 41 Resp: 6262

Ion Ratio Lower Upper

41 100

69 0.0 62.7 94.1#

39 0.0 52.7 79.1#



Abundance Ion 41.00 (40.70 to 41.70): VNO

Ion 69.00 (68.70 to 69.70): VNO

Ion 39.00 (38.70 to 39.70): VNO

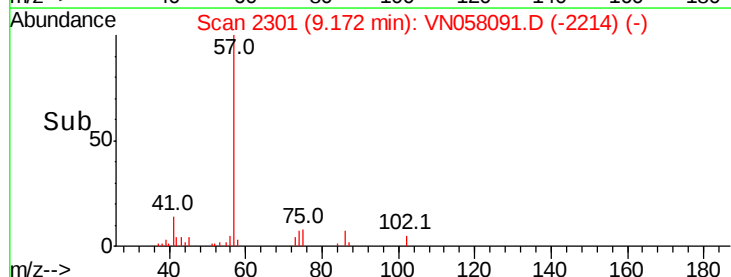
100000

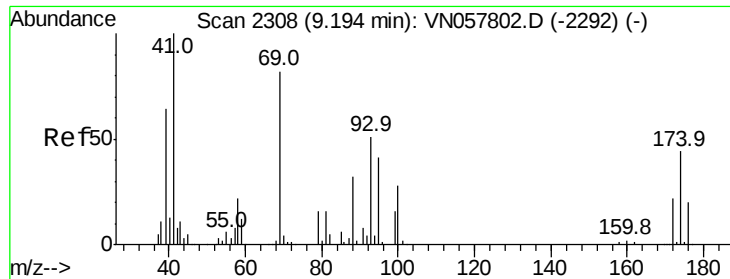
50000

0

9.10 9.15 9.20 9.25

Time-->





#49

1,4-Dioxane

Concen: 2.561 ug/l

RT: 9.26 min Scan# 2329

Delta R.T. 0.07 min

Lab File: VN058091.D

Acq: 15 Sep 2019 15:00

Instrument :
MSVOA_N
ClientSampleId :

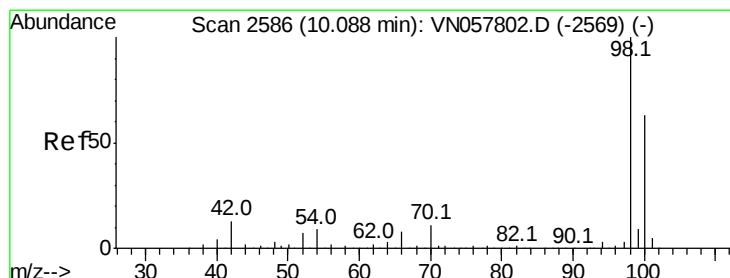
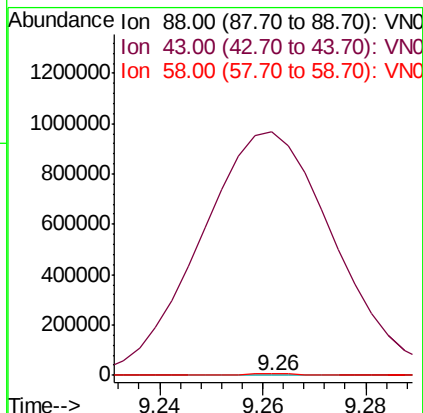
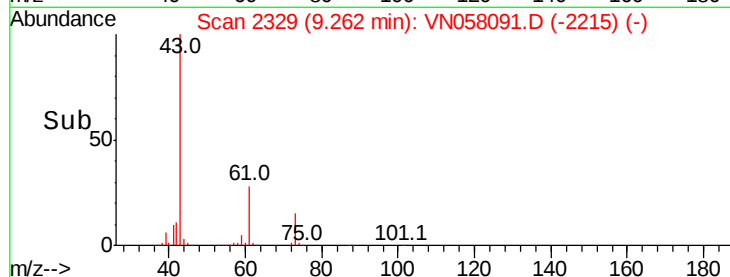
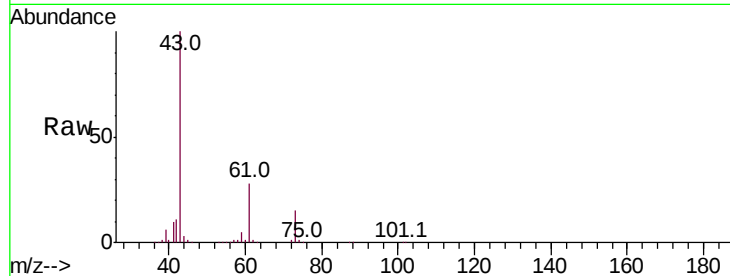
Tot Ion: 88 Resp: 242

Ion Ratio Lower Upper

88 100

43 735465.7 28.5 42.7#

58 3611.2 55.8 83.6#



#50

Toluene-d8

Concen: 51.123 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. -0.00 min

Lab File: VN058091.D

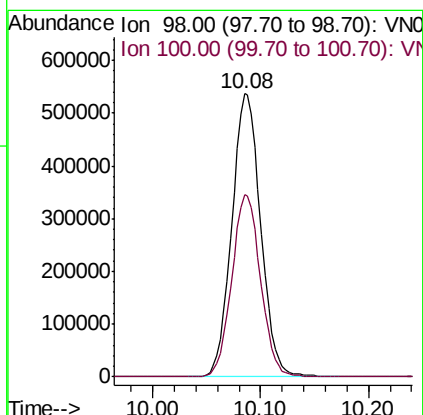
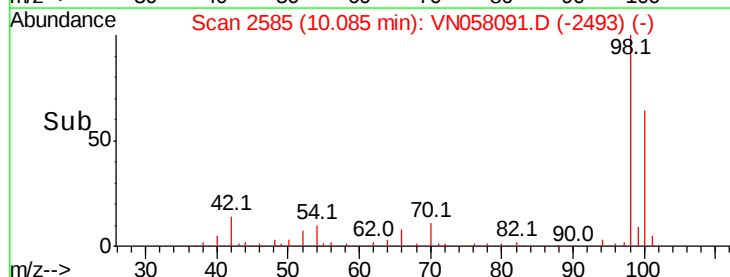
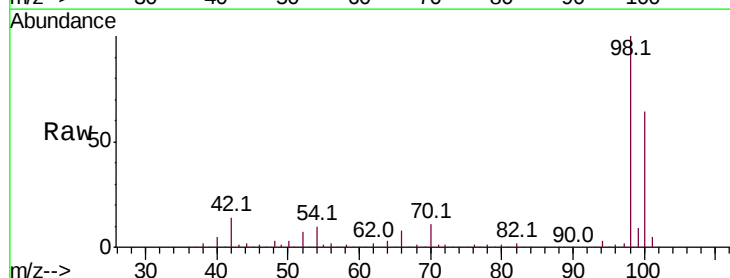
Acq: 15 Sep 2019 15:00

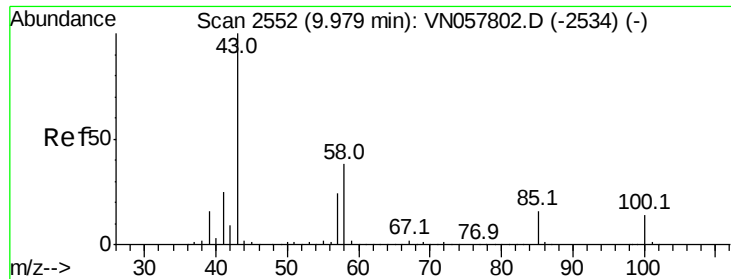
Tgt Ion: 98 Resp: 1001320

Ion Ratio Lower Upper

98 100

100 64.1 50.3 75.5





#51

4-Methyl-2-Pentanone

Concen: 1.303 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. 0.00 min

Lab File: VN058091.D

Acq: 15 Sep 2019 15:00

Instrument :

MSVOA_N

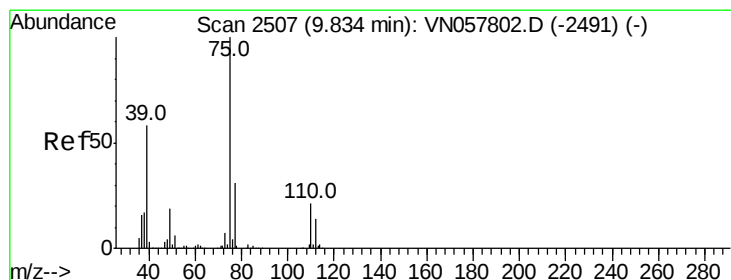
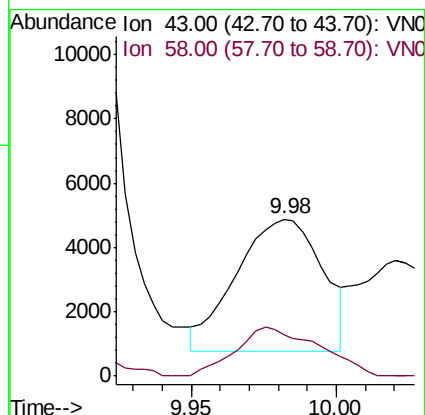
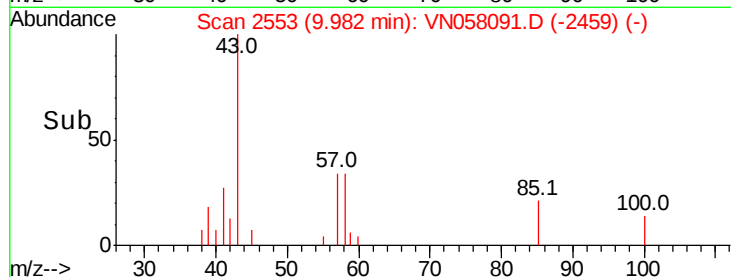
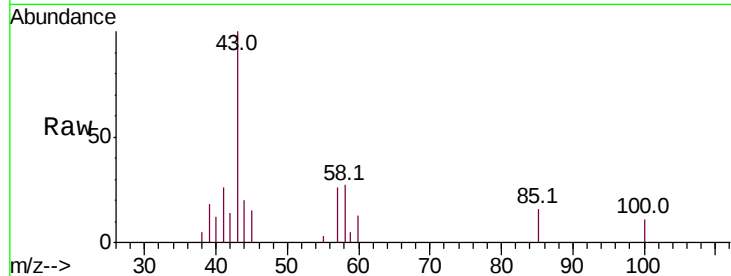
ClientSampled :

Tot Ion: 43 Resp: 8492

Ion Ratio Lower Upper

43 100

58 36.0 29.8 44.6



#54

cis-1,3-Dichloropropene

Concen: 6.520 ug/l

RT: 9.90 min Scan# 2528

Delta R.T. 0.07 min

Lab File: VN058091.D

Acq: 15 Sep 2019 15:00

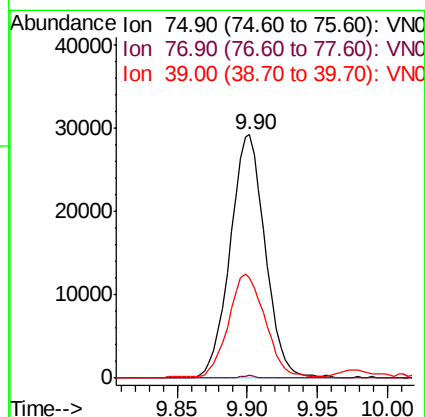
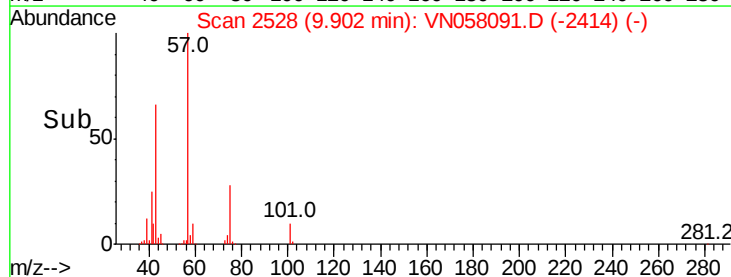
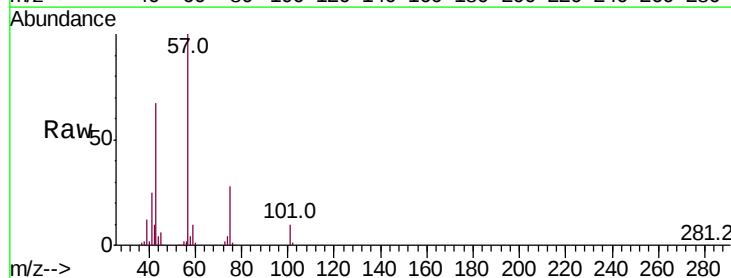
Tgt Ion: 75 Resp: 50795

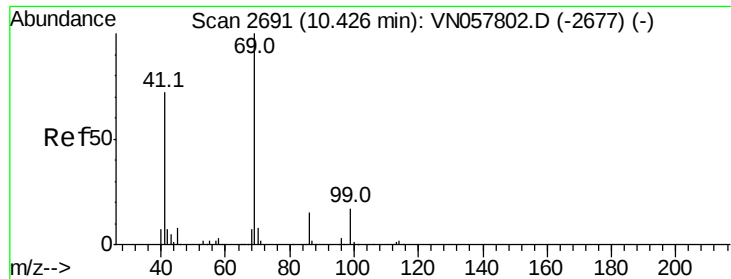
Ion Ratio Lower Upper

75 100

77 1.0 24.8 37.2#

39 40.6 46.2 69.4#





#56

Ethyl methacrylate

Concen: 0.320 ug/l

RT: 10.54 min Scan# 2727

Delta R.T. 0.12 min

Lab File: VN058091.D

Acq: 15 Sep 2019 15:00

Instrument :

MSVOA_N

ClientSampled :

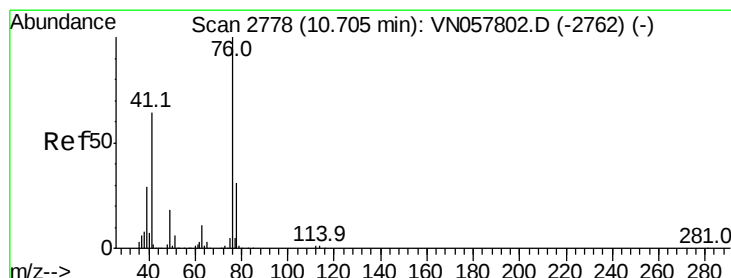
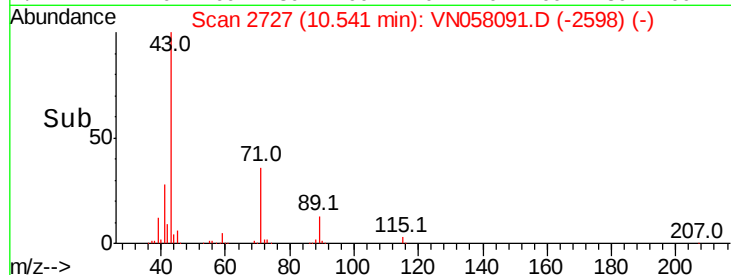
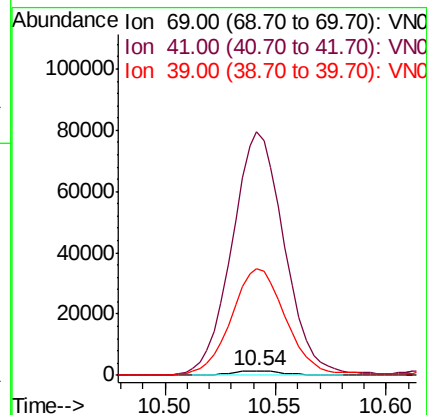
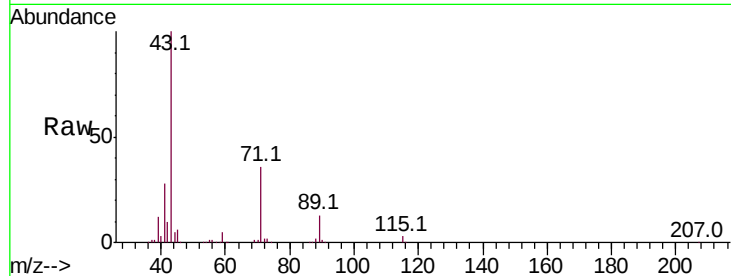
Tot Ion: 69 Resp: 2457

Ion Ratio Lower Upper

69 100

41 5327.2 56.7 85.1#

39 2457.1 36.3 54.5#



#57

1,3-Dichloropropane

Concen: 0.812 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.06 min

Lab File: VN058091.D

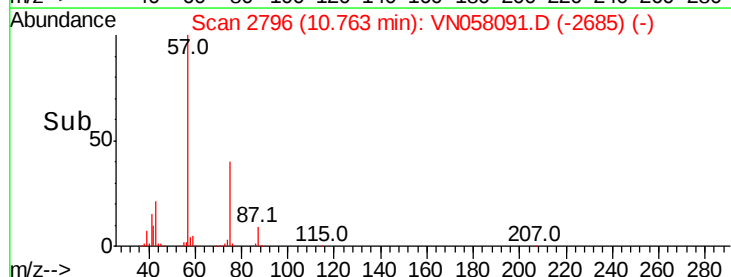
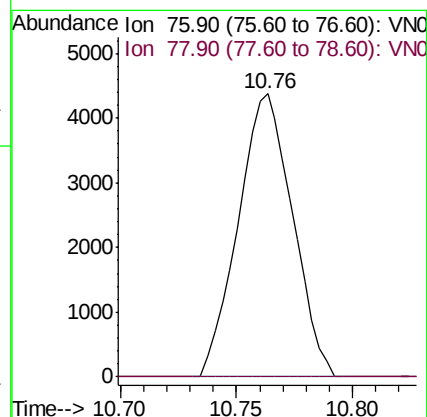
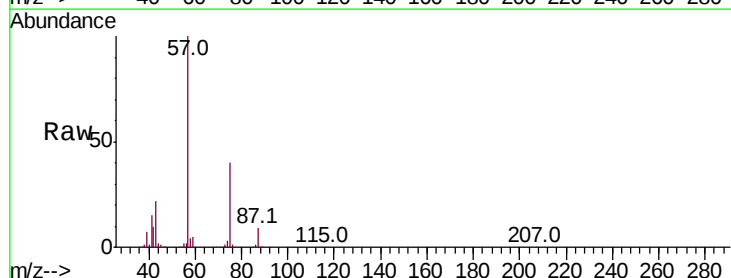
Acq: 15 Sep 2019 15:00

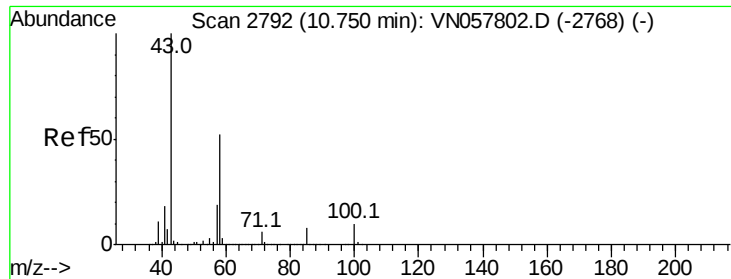
Tgt Ion: 76 Resp: 7122

Ion Ratio Lower Upper

76 100

78 0.0 25.4 38.2#





#59

2-Hexanone

Concen: 23.705 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN058091.D

Acq: 15 Sep 2019 15:00

Instrument :

MSVOA_N

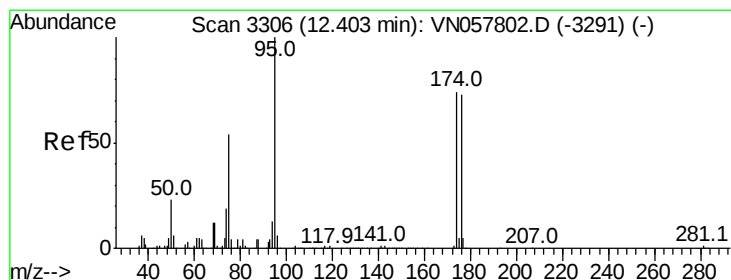
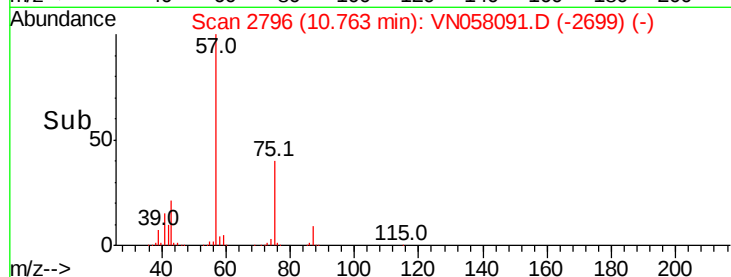
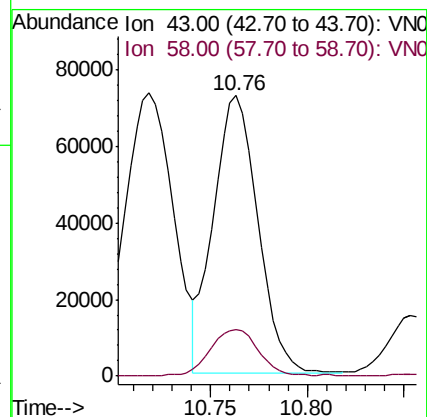
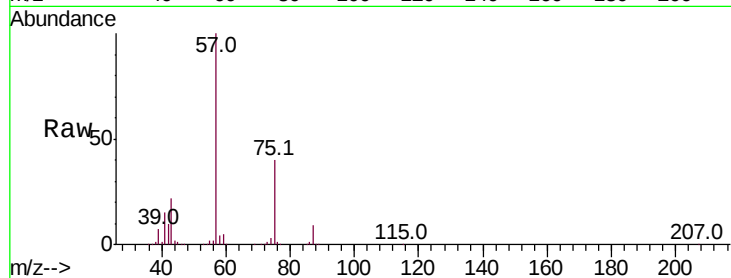
ClientSampleId :

Tot Ion: 43 Resp: 115802

Ion Ratio Lower Upper

43 100

58 18.5 25.6 76.8#



#62

4-Bromofluorobenzene

Concen: 45.336 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.00 min

Lab File: VN058091.D

Acq: 15 Sep 2019 15:00

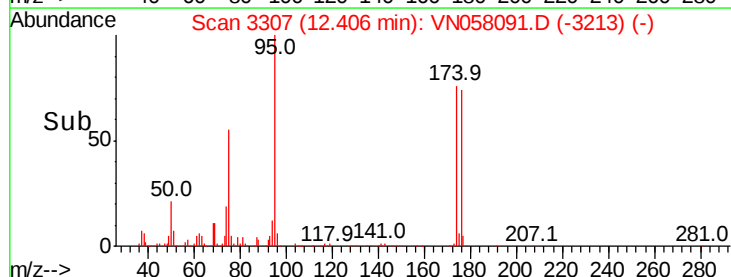
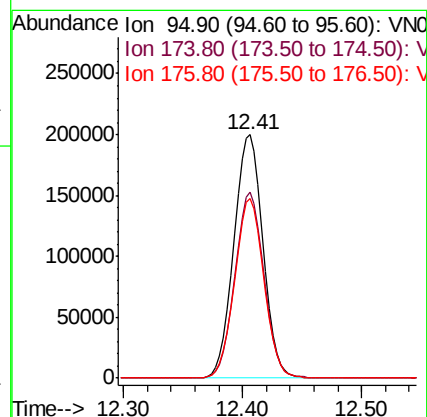
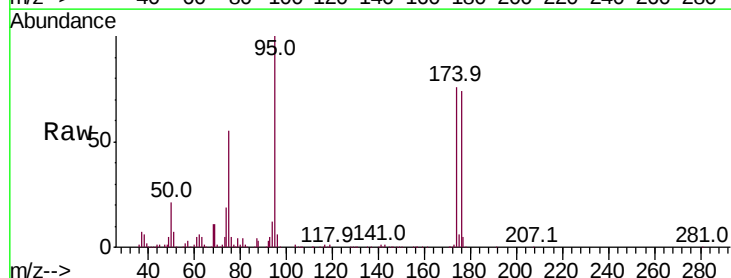
Tgt Ion: 95 Resp: 338398

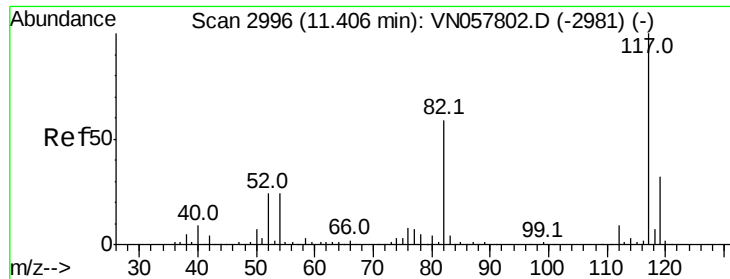
Ion Ratio Lower Upper

95 100

174 76.2 0.0 150.2

176 74.1 0.0 146.0

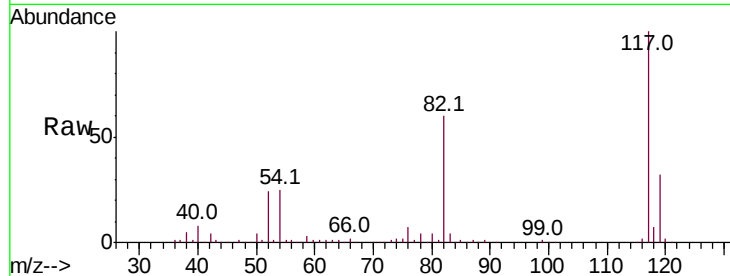




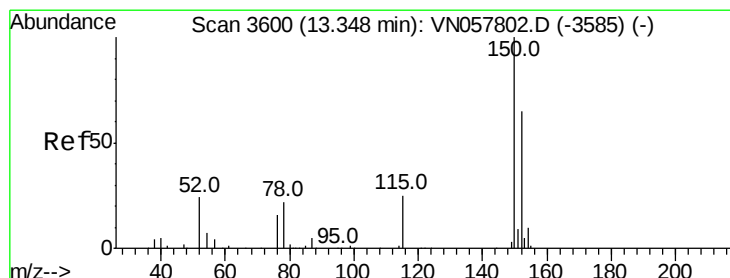
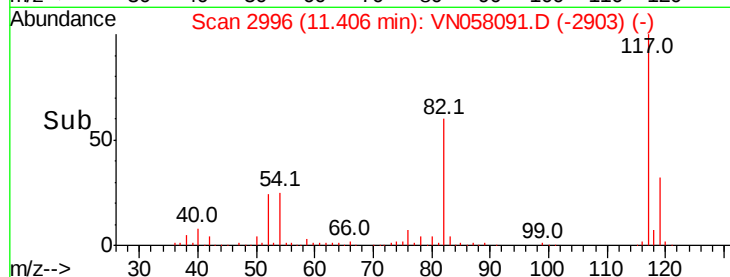
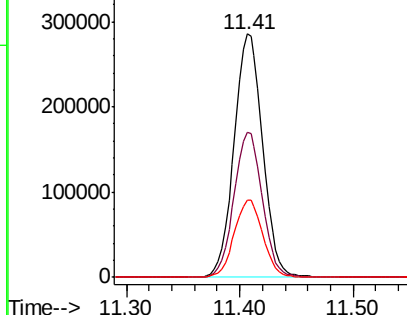
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN058091.D
Acq: 15 Sep 2019 15:00

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 502436
Ion Ratio Lower Upper
117 100
82 59.8 47.2 70.8
119 31.5 25.3 37.9

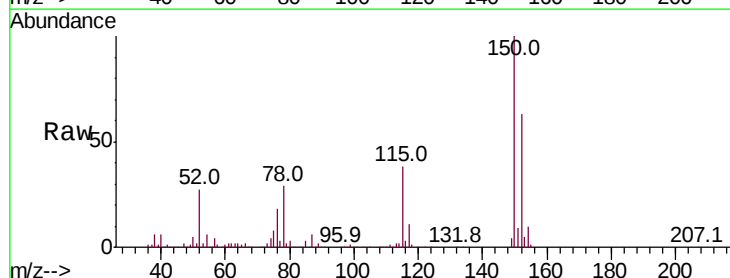


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

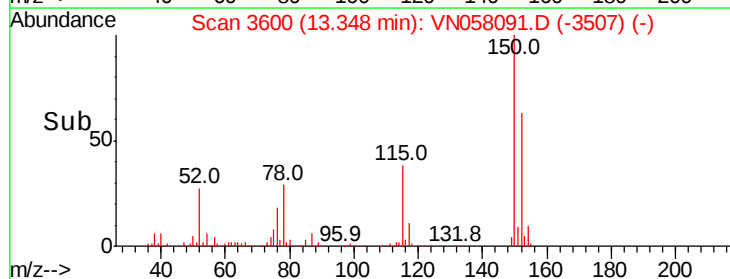
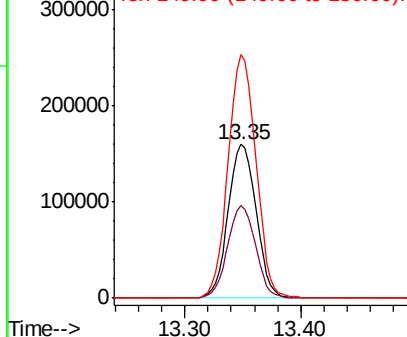


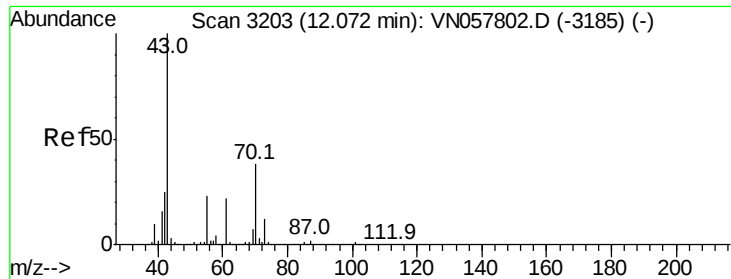
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3600
Delta R.T. 0.00 min
Lab File: VN058091.D
Acq: 15 Sep 2019 15:00

Tgt Ion:152 Resp: 268056
Ion Ratio Lower Upper
152 100
115 59.8 30.3 91.0
150 157.8 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-amvl acetate

Concen: 0.485 ug/l

RT: 12.03 min Scan# 3190

Delta R.T. -0.04 min

Lab File: VN058091.D

Acq: 15 Sep 2019 15:00

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 43 Resp: 4388

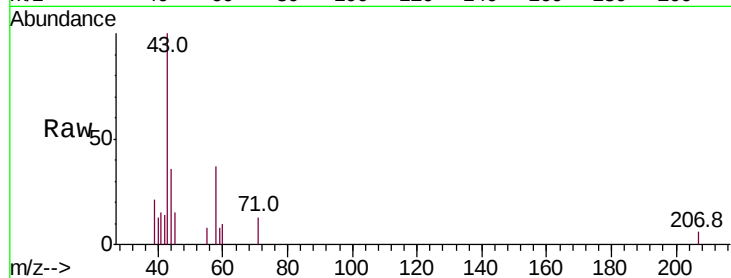
Ion Ratio Lower Upper

43 100

70 0.0 30.6 45.8#

55 5.9 18.6 27.8#

61 0.0 17.4 26.2#

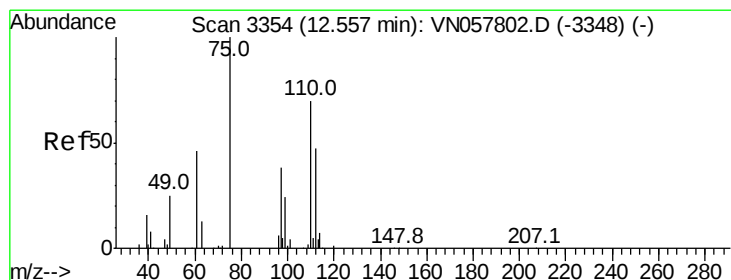
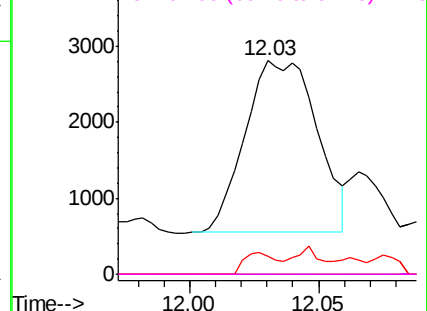
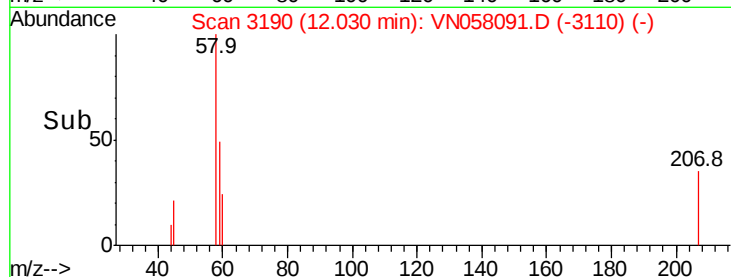


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 30.805 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN058091.D

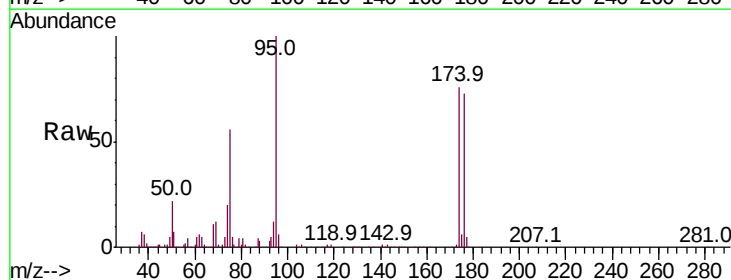
Acq: 15 Sep 2019 15:00

Tgt Ion: 75 Resp: 186798

Ion Ratio Lower Upper

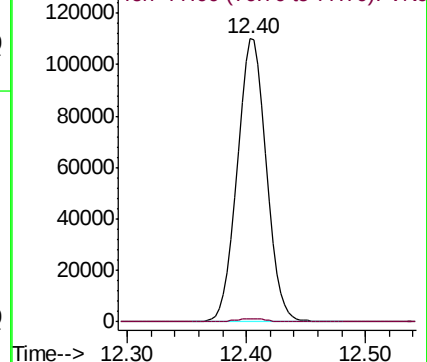
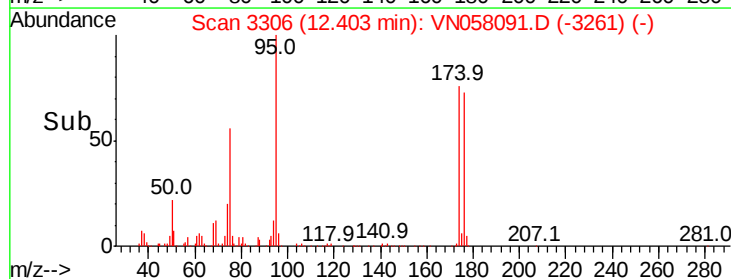
75 100

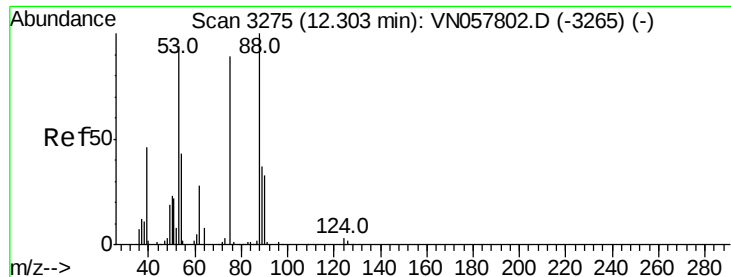
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#81

trans-1,4-Dichloro-2-butene

Concen: 108.403 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN058091.D

Acq: 15 Sep 2019 15:00

Instrument :

MSVOA_N

ClientSampled :

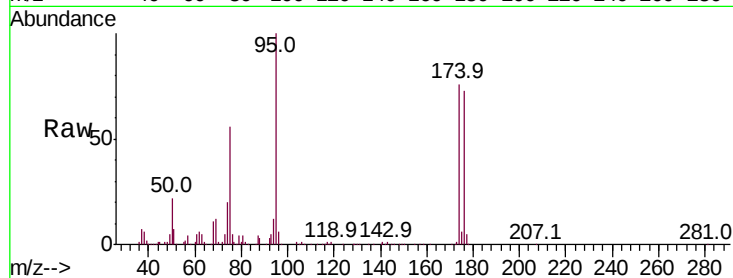
Tot Ion: 75 Resp: 186798

Ion Ratio Lower Upper

75 100

53 0.0 88.4 132.6#

89 0.0 35.3 52.9#

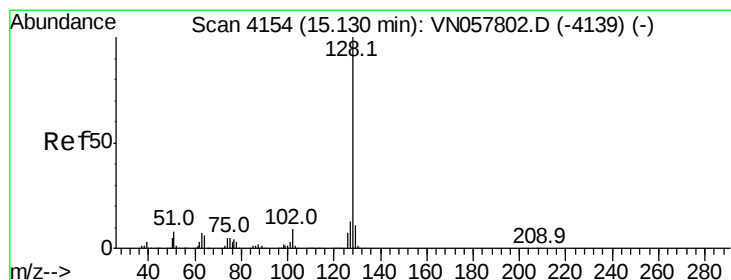
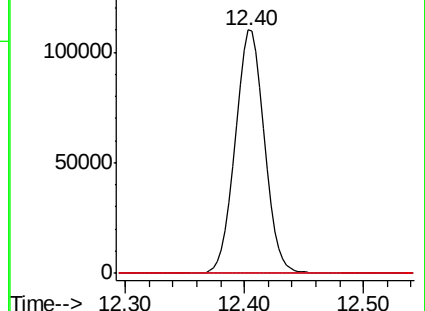
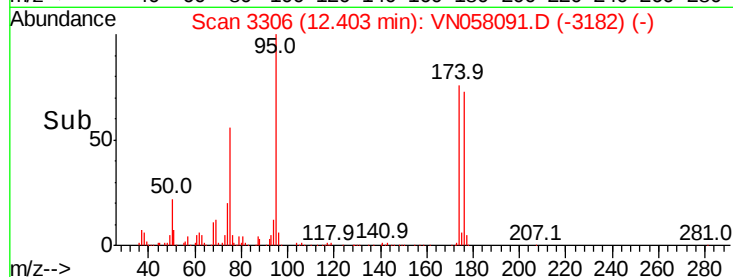


Abundance Ion 74.90 (74.60 to 75.60): VN058091.D (-3306) (-)

150000 Ion 53.00 (52.70 to 53.70): VN058091.D (-3306) (-)

Ion 88.90 (88.60 to 89.60): VN058091.D (-3306) (-)

12.40



#95

Naphthalene

Concen: Below Cal

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN058091.D

Acq: 15 Sep 2019 15:00

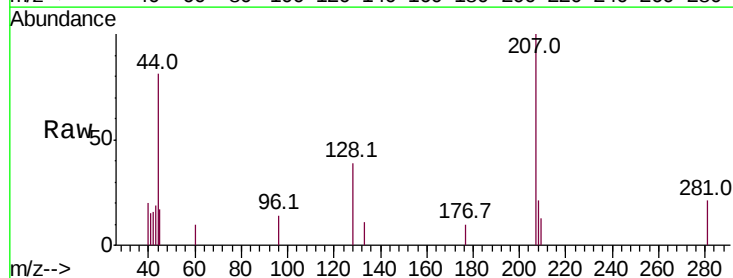
Tgt Ion: 128 Resp: 1042

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

129 3.1 8.6 12.8#



Abundance Ion 128.00 (127.70 to 128.70): VN058091.D (-4154) (-)

800 Ion 127.00 (126.70 to 127.70): VN058091.D (-4154) (-)

Ion 129.00 (128.70 to 129.70): VN058091.D (-4154) (-)

15.13

