

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN091419\
 Data File : VN058029.D
 Acq On : 13 Sep 2019 20:07
 Operator : JC/SP
 Sample : PB123049TB
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 T3-3-(1.5)

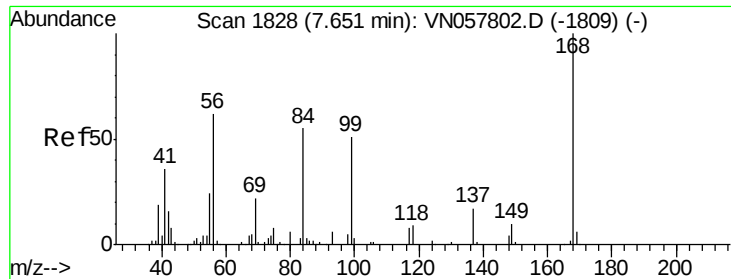
Quant Time: Sep 14 03:38:45 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091019W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 10 03:02:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	318982	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	534874	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	492708	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	252453	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	338581	52.41	ug/l	0.00
Spiked Amount			Recovery	=	104.82%	
35) Dibromofluoromethane	7.57	113	235104	47.62	ug/l	0.00
Spiked Amount			Recovery	=	95.24%	
50) Toluene-d8	10.09	98	898686	46.89	ug/l	0.00
Spiked Amount			Recovery	=	93.78%	
62) 4-Bromofluorobenzene	12.41	95	313534	42.92	ug/l	0.00
Spiked Amount			Recovery	=	85.84%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.54	94	338	Below Cal		94
11) Tert butyl alcohol	4.74	59	388	0.496	ug/l #	72
16) Acetone	3.80	43	15248	7.199	ug/l	98
17) Carbon Disulfide	4.04	76	398	0.234	ug/l #	75
18) Methyl Acetate	4.32	43	3682	0.652	ug/l #	89
20) Methylene Chloride	4.53	84	9269	1.095	ug/l	90
31) Cyclohexane	7.64	56	8185	Below Cal	#	12
36) 1,1-Dichloropropene	7.65	75	26711	4.306	ug/l #	46
38) Carbon Tetrachloride	7.65	117	32075	5.664	ug/l #	16
43) Isopropyl Acetate	8.15	43	98414	9.131	ug/l #	88
45) 1,2-Dichloropropane	9.27	63	1704	0.314	ug/l #	44
48) Methyl methacrylate	9.17	41	4964	0.908	ug/l #	13
49) 1,4-Dioxane	9.26	88	60	0.649	ug/l #	1
51) 4-Methyl-2-Pentanone	9.98	43	5972	0.936	ug/l #	87
54) cis-1,3-Dichloropropene	9.90	75	39023	5.118	ug/l #	69
56) Ethyl methacrylate	10.54	69	1591	0.212	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	5895	0.687	ug/l #	43
59) 2-Hexanone	10.76	43	97333	20.360	ug/l #	53
74) N-amyl acetate	12.04	43	4200	0.493	ug/l #	50
76) 1,2,3-Trichloropropane	12.40	75	172340	30.177	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	172340	106.194	ug/l #	6
95) Naphthalene	15.13	128	5627	Below Cal	#	96
96) 1,2,3-Trichlorobenzene	15.30	180	1182	1.225	ug/l	87

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

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MSVOA_N

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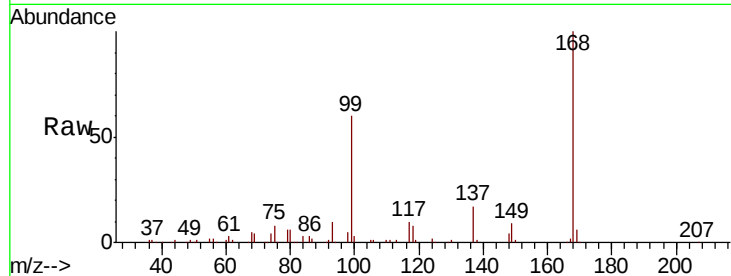
T3-3-(1.5)

Tgt Ion:168 Resp: 318982

Ion Ratio Lower Upper

168 100

99 59.6 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

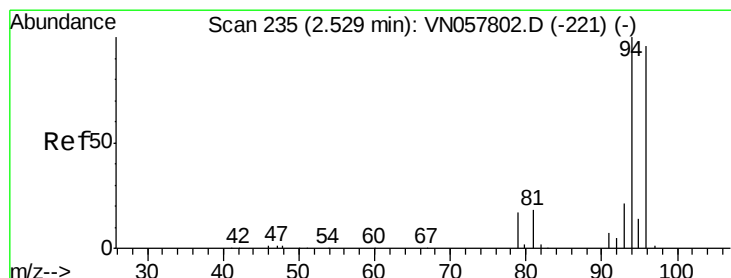
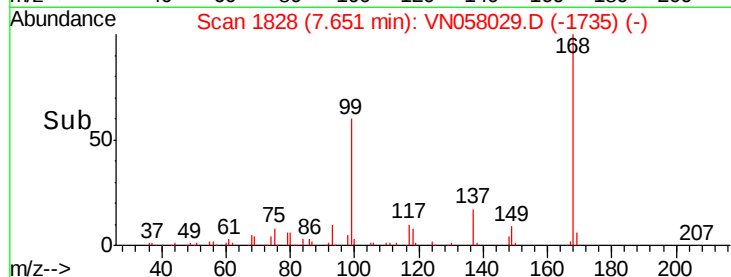
100000

50000

0

7.60 7.70

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.54 min Scan# 237

Delta R.T. 0.01 min

Lab File: VN058029.D

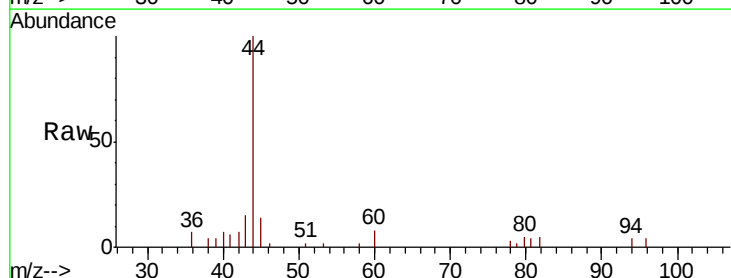
Acq: 13 Sep 2019 20:07

Tgt Ion: 94 Resp: 338

Ion Ratio Lower Upper

94 100

96 102.4 77.0 115.4



Abundance Ion 93.90 (93.60 to 94.60): VN

Ion 95.90 (95.60 to 96.60): VN

300

250

200

150

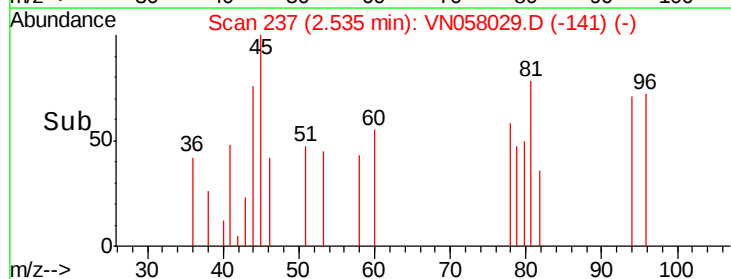
100

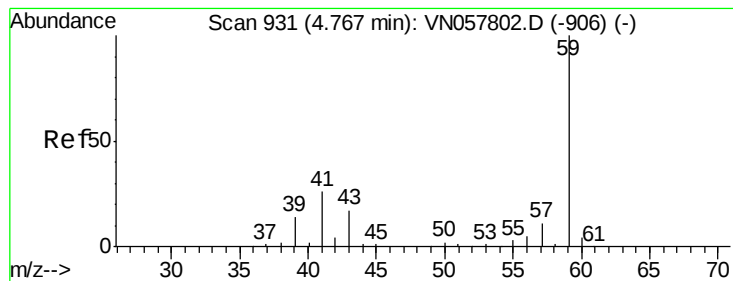
50

0

2.52 2.54 2.56

Time-->





#11

Tert butyl alcohol

Concen: 0.496 ug/l

RT: 4.74 min Scan# 924

Delta R.T. -0.02 min

Lab File: VN058029.D

Acq: 13 Sep 2019 20:07

Instrument :

MSVOA_N

ClientSampled :

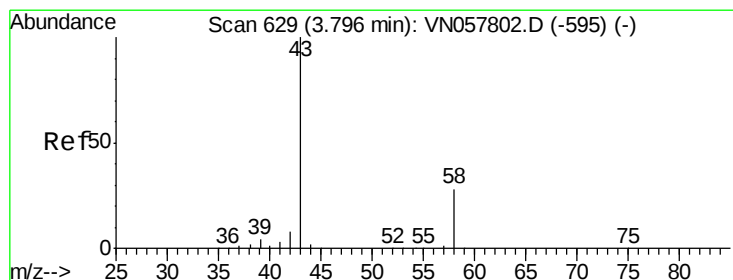
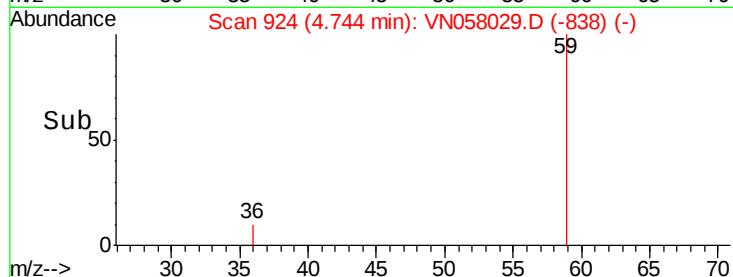
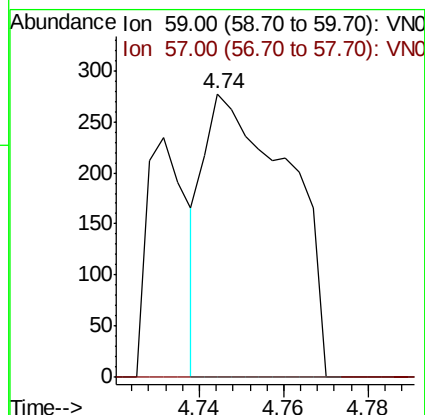
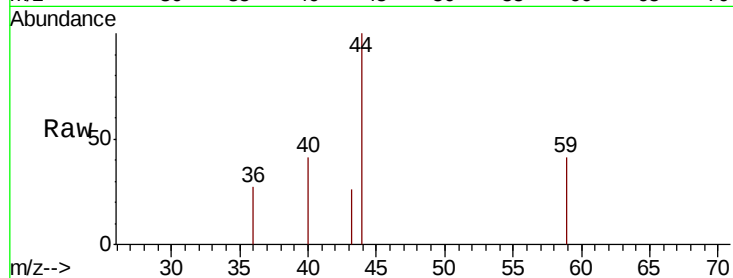
T3-3-(1.5)

Tgt Ion: 59 Resp: 388

Ion Ratio Lower Upper

59 100

57 0.0 8.4 12.6#



#16

Acetone

Concen: 7.199 ug/l

RT: 3.80 min Scan# 629

Delta R.T. 0.00 min

Lab File: VN058029.D

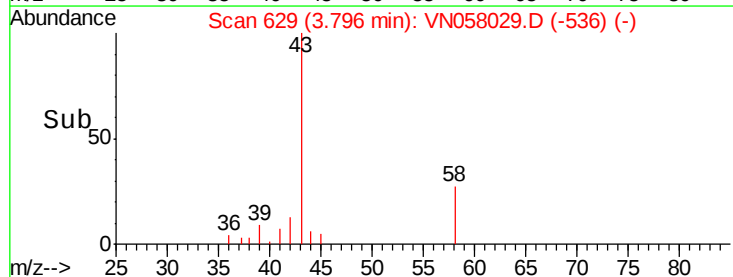
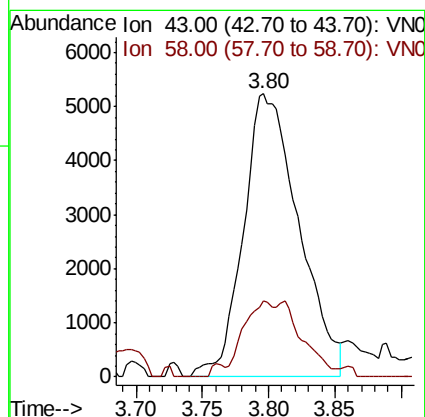
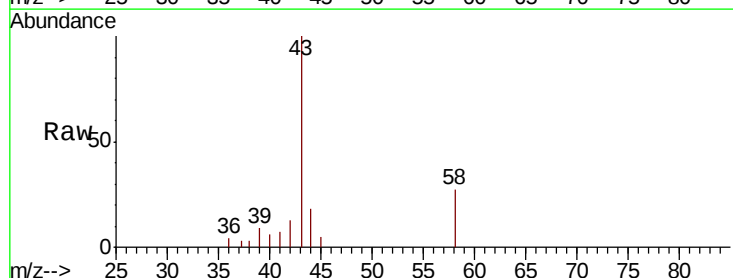
Acq: 13 Sep 2019 20:07

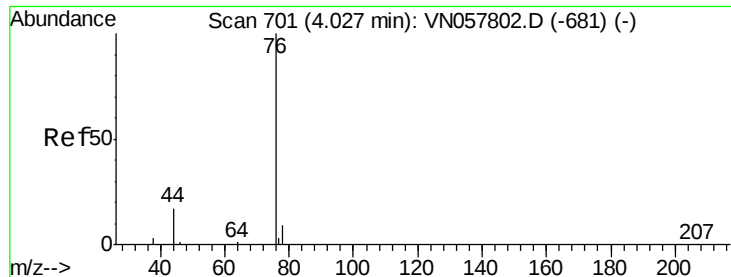
Tgt Ion: 43 Resp: 15248

Ion Ratio Lower Upper

43 100

58 26.7 22.2 33.2

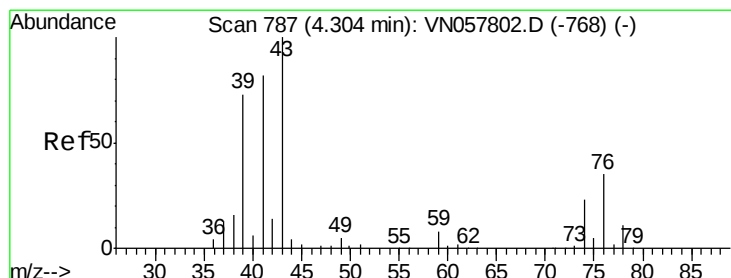
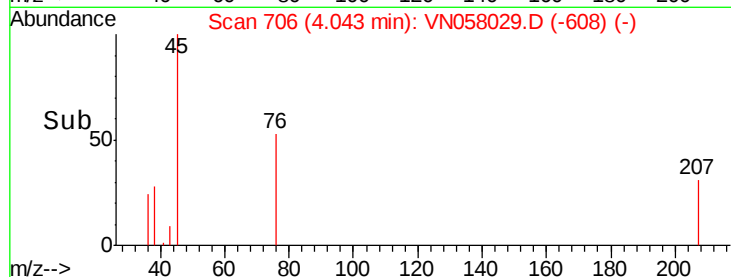
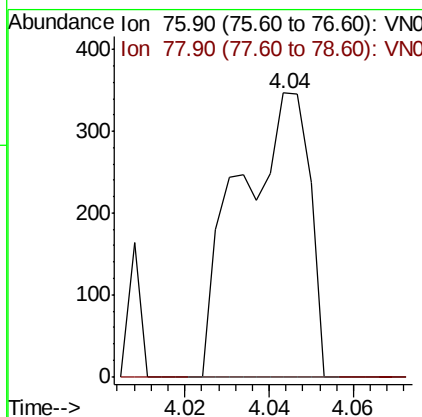
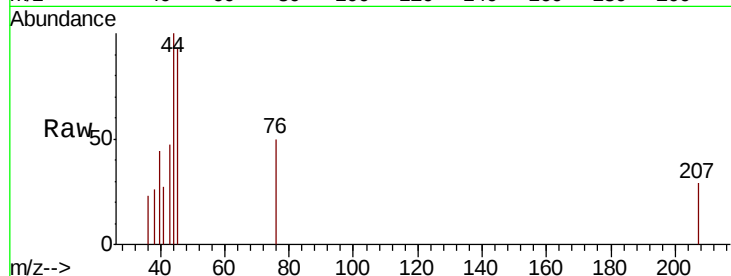




#17
 Carbon Disulfide
 Concen: 0.234 ug/l
 RT: 4.04 min Scan# 706
 Delta R.T. 0.02 min
 Lab File: VN058029.D
 Acq: 13 Sep 2019 20:07

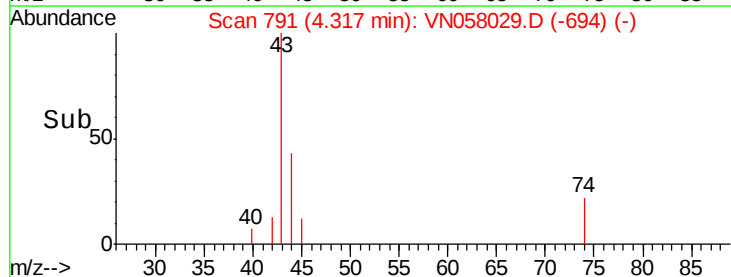
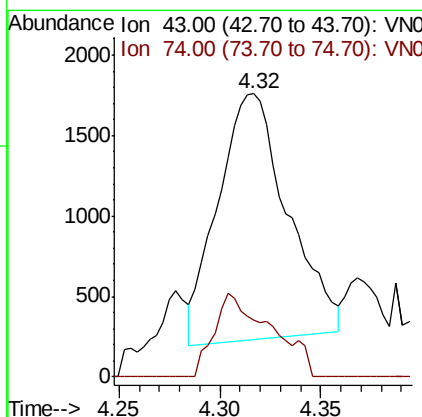
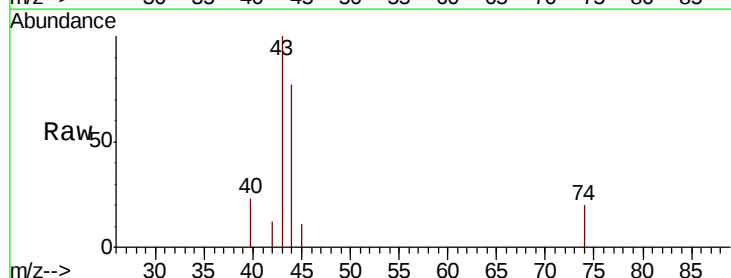
Instrument :
 MSVOA_N
 ClientSampleId :
 T3-3-(1.5)

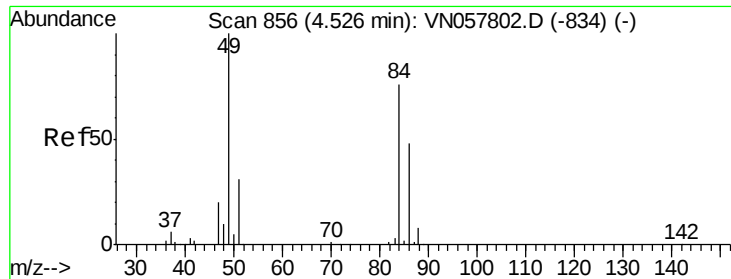
Tgt Ion: 76 Resp: 398
 Ion Ratio Lower Upper
 76 100
 78 0.0 7.1 10.7#



#18
 Methyl Acetate
 Concen: 0.652 ug/l
 RT: 4.32 min Scan# 791
 Delta R.T. 0.01 min
 Lab File: VN058029.D
 Acq: 13 Sep 2019 20:07

Tgt Ion: 43 Resp: 3682
 Ion Ratio Lower Upper
 43 100
 74 27.8 17.9 26.9#

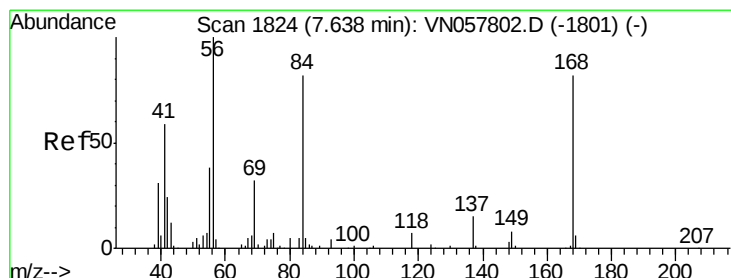
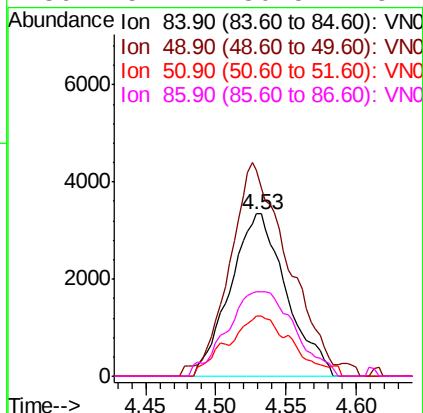
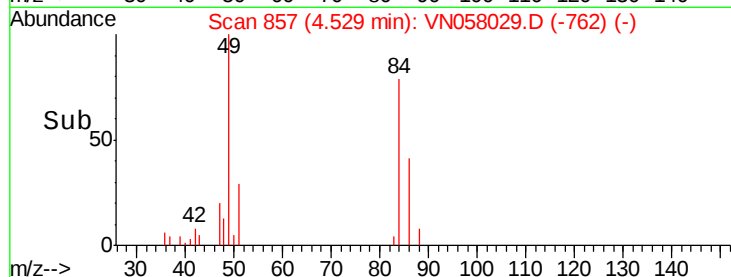
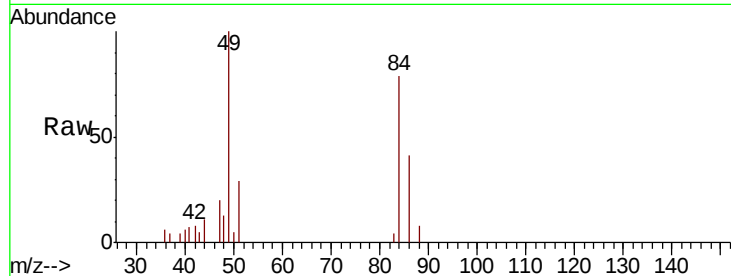




#20
Methylene Chloride
Concen: 1.095 ug/l
RT: 4.53 min Scan# 857
Delta R.T. 0.00 min
Lab File: VN058029.D
Acq: 13 Sep 2019 20:07

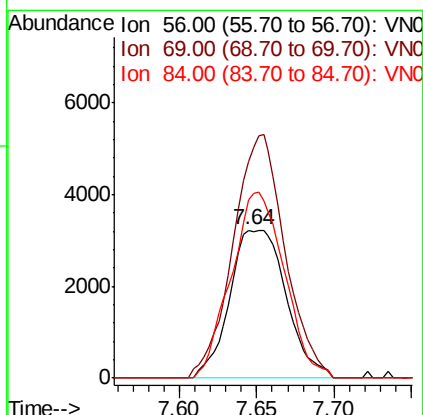
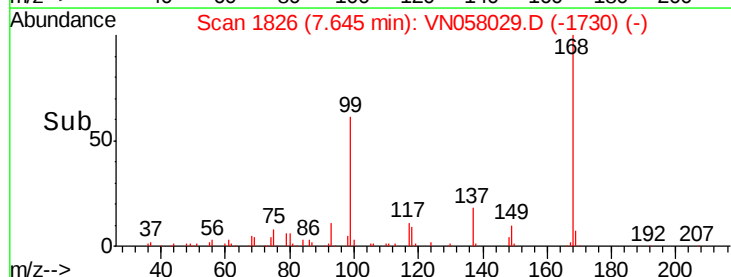
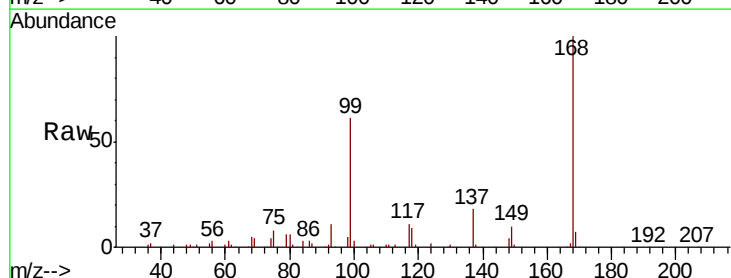
Instrument :
MSVOA_N
ClientSampleId :
T3-3-(1.5)

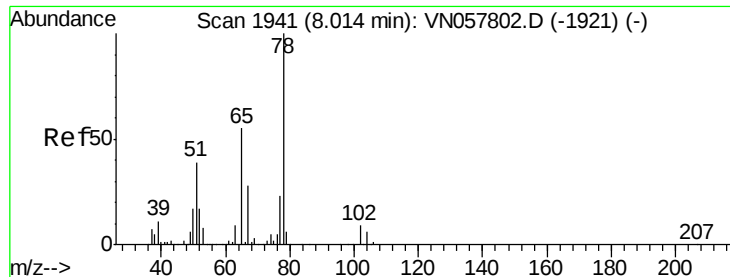
Tgt Ion:	84	Resp:	9269
Ion	Ratio	Lower	Upper
84	100		
49	120.6	104.8	157.2
51	36.9	33.0	49.4
86	52.4	50.5	75.7



#31
Cyclohexane
Concen: Below Cal
RT: 7.64 min Scan# 1826
Delta R.T. 0.01 min
Lab File: VN058029.D
Acq: 13 Sep 2019 20:07

Tgt Ion:	56	Resp:	8185
Ion	Ratio	Lower	Upper
56	100		
69	146.8	25.9	38.9#
84	120.2	65.6	98.4#

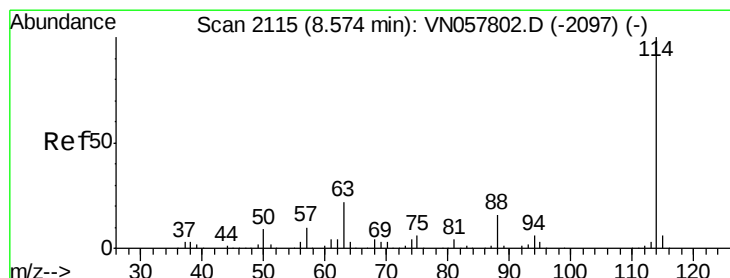
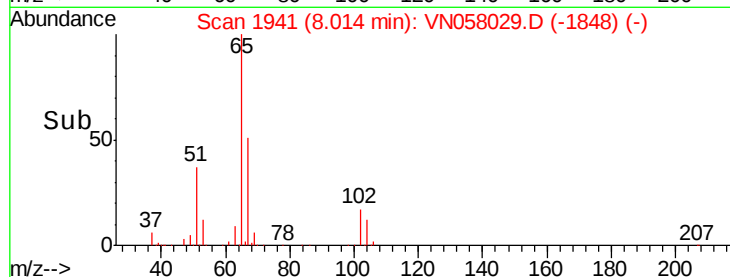
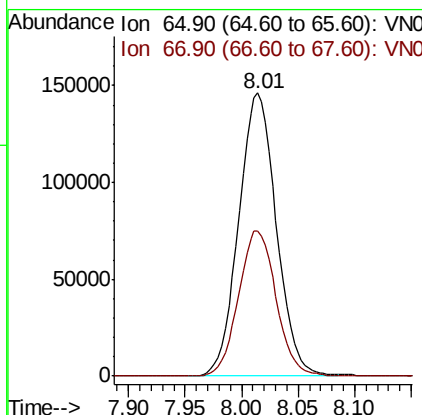
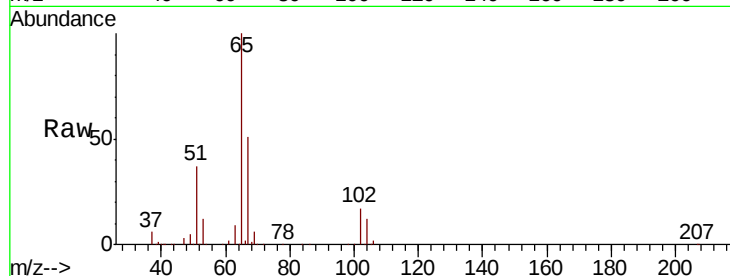




#33
 1,2-Dichloroethane-d4
 Concen: 52.406 ug/l
 RT: 8.01 min Scan# 1941
 Delta R.T. 0.00 min
 Lab File: VN058029.D
 Acq: 13 Sep 2019 20:07

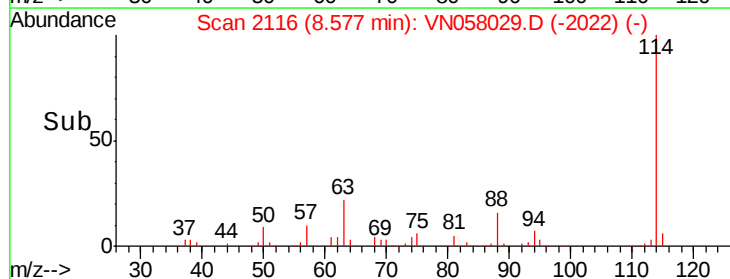
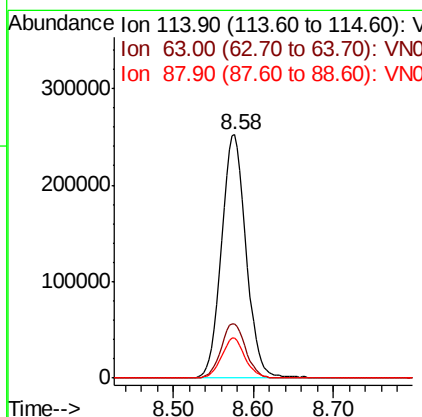
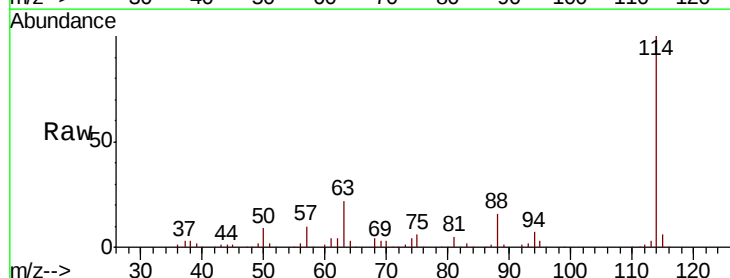
Instrument :
 MSVOA_N
 ClientSampleId :
 T3-3-(1.5)

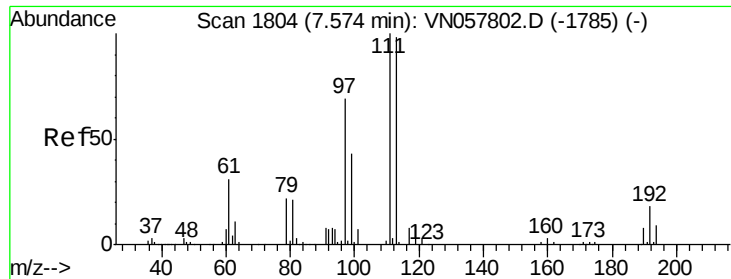
Tgt Ion: 65 Resp: 338581
 Ion Ratio Lower Upper
 65 100
 67 51.4 0.0 104.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2116
 Delta R.T. 0.00 min
 Lab File: VN058029.D
 Acq: 13 Sep 2019 20:07

Tgt Ion: 114 Resp: 534874
 Ion Ratio Lower Upper
 114 100
 63 22.0 0.0 44.0
 88 16.4 0.0 31.4

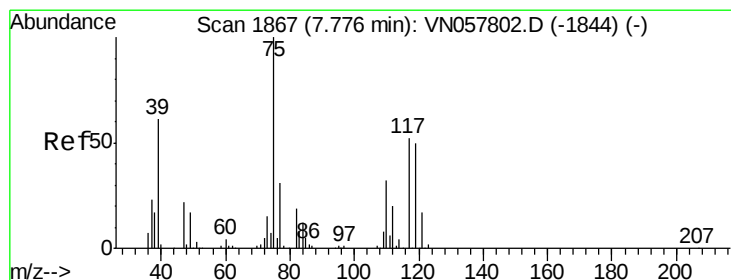
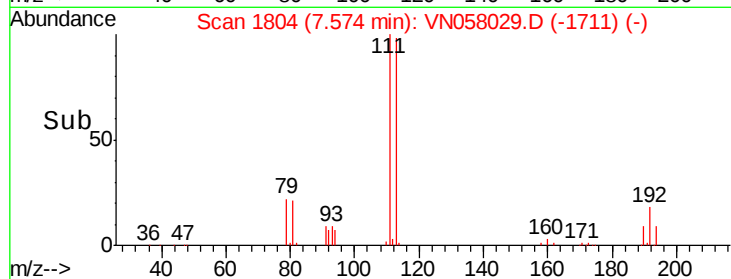
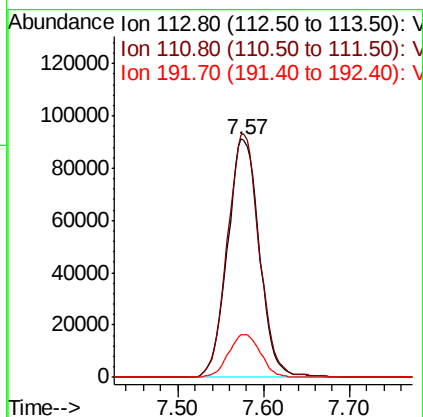
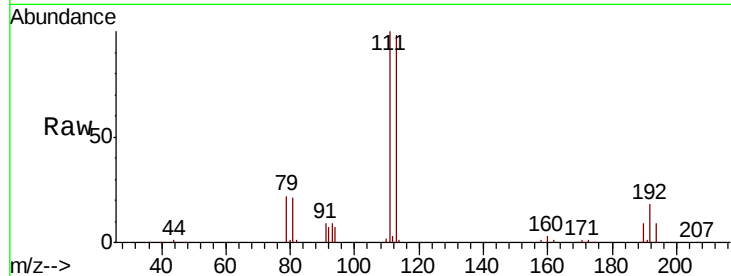




#35
 Dibromofluoromethane
 Concen: 47.624 ug/l
 RT: 7.57 min Scan# 1804
 Delta R.T. 0.00 min
 Lab File: VN058029.D
 Acq: 13 Sep 2019 20:07

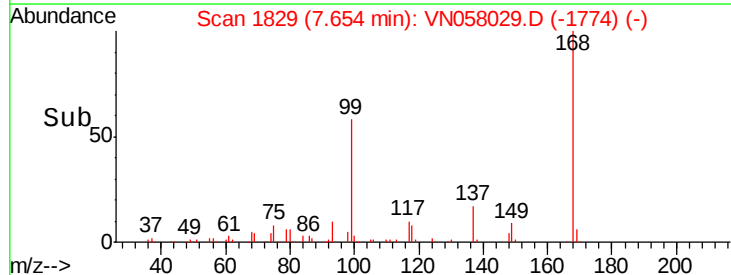
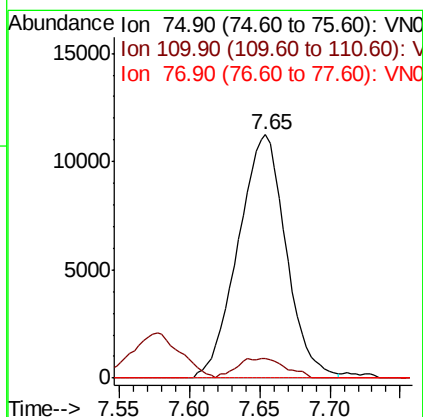
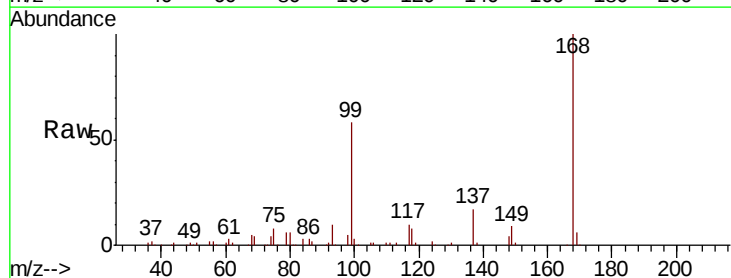
Instrument :
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 ClientSampleId :
 T3-3-(1.5)

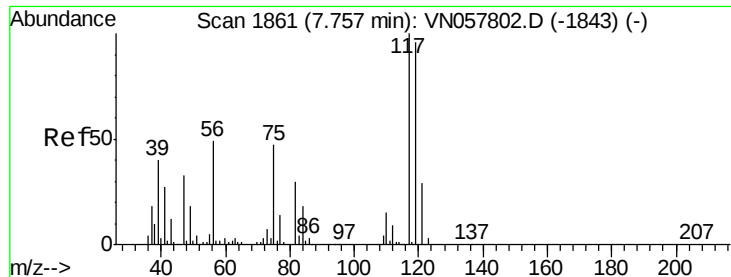
Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.5	81.3	121.9
192	18.0	14.6	22.0



#36
 1,1-Dichloropropene
 Concen: 4.306 ug/l
 RT: 7.65 min Scan# 1829
 Delta R.T. -0.12 min
 Lab File: VN058029.D
 Acq: 13 Sep 2019 20:07

Tgt Ion	Ratio	Lower	Upper
75	100		
110	3.7	16.3	48.9#
77	0.0	25.0	37.4#





#38

Carbon Tetrachloride

Concen: 5.664 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.11 min

Lab File: VN058029.D

Acq: 13 Sep 2019 20:07

Instrument :

MSVOA_N

ClientSampled :

T3-3-(1.5)

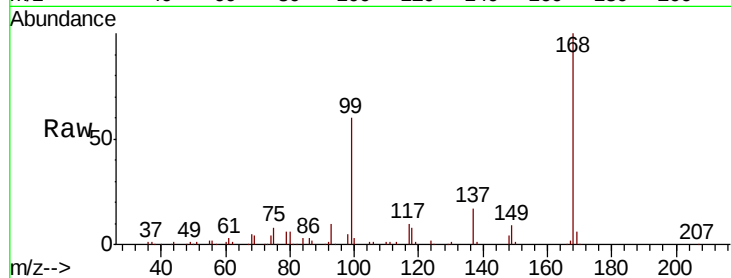
Tgt Ion:117 Resp: 32075

Ion Ratio Lower Upper

117 100

119 5.7 76.9 115.3#

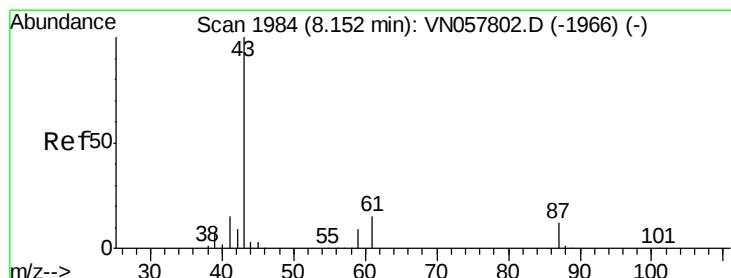
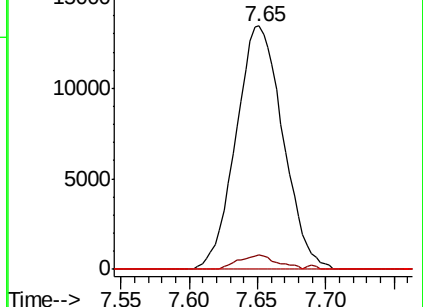
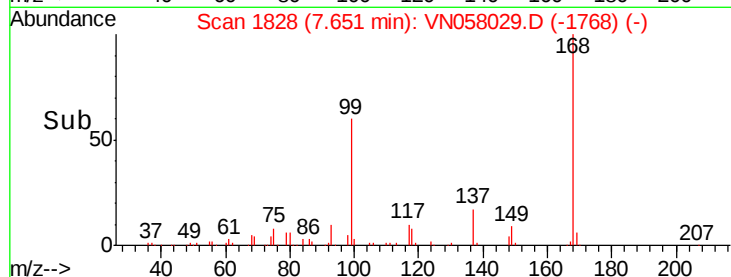
121 0.0 23.4 35.2#



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: 9.131 ug/l

RT: 8.15 min Scan# 1984

Delta R.T. 0.00 min

Lab File: VN058029.D

Acq: 13 Sep 2019 20:07

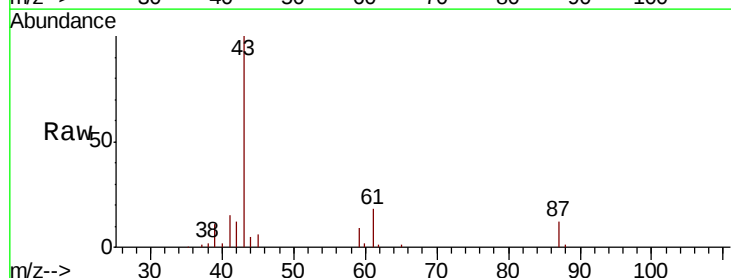
Tgt Ion: 43 Resp: 98414

Ion Ratio Lower Upper

43 100

61 16.7 20.1 30.1#

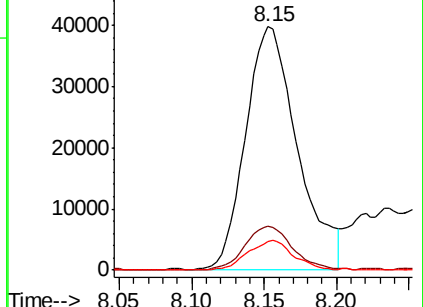
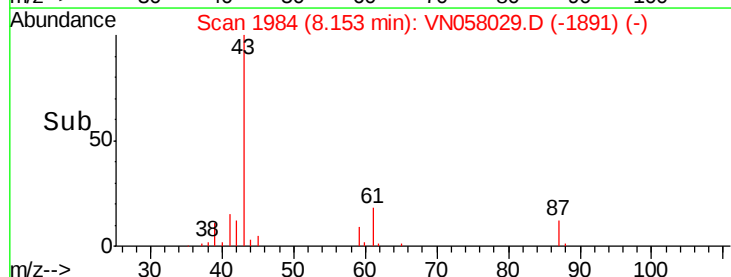
87 10.7 9.5 14.3

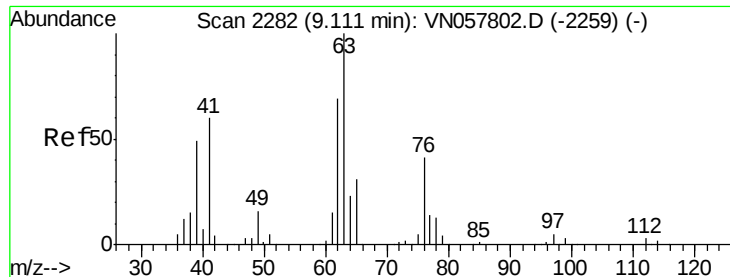


Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 61.00 (60.70 to 61.70): VNO

Ion 87.00 (86.70 to 87.70): VNO





#45

1,2-Dichloropropane

Concen: 0.314 ug/l

RT: 9.27 min Scan# 2330

Delta R.T. 0.15 min

Lab File: VN058029.D

Acq: 13 Sep 2019 20:07

Instrument :

MSVOA_N

ClientSampled :

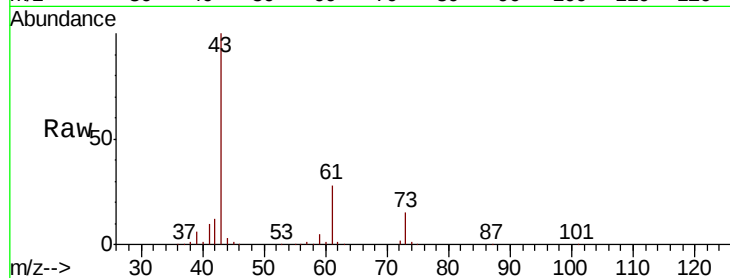
T3-3-(1.5)

Tgt Ion: 63 Resp: 1704

Ion Ratio Lower Upper

63 100

65 0.0 24.8 37.2#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

9.27

1000

800

600

400

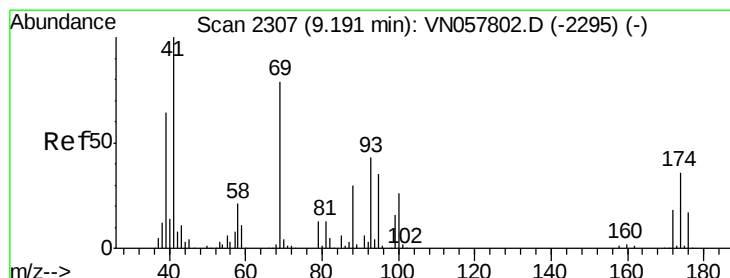
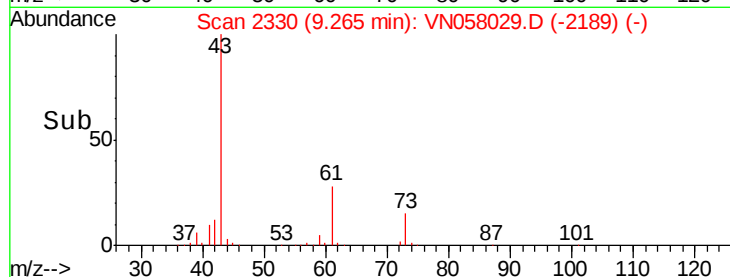
200

0

9.25

9.30

Time-->



#48

Methyl methacrylate

Concen: 0.908 ug/l

RT: 9.17 min Scan# 2301

Delta R.T. -0.02 min

Lab File: VN058029.D

Acq: 13 Sep 2019 20:07

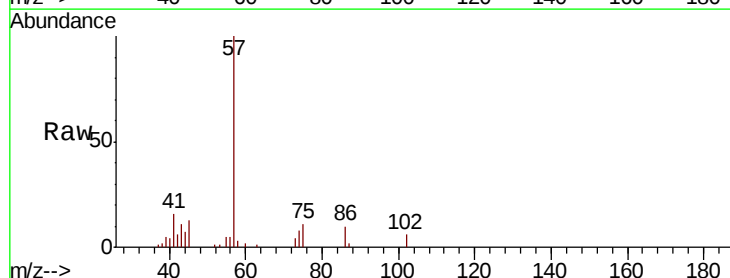
Tgt Ion: 41 Resp: 4964

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): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

100000

80000

60000

40000

20000

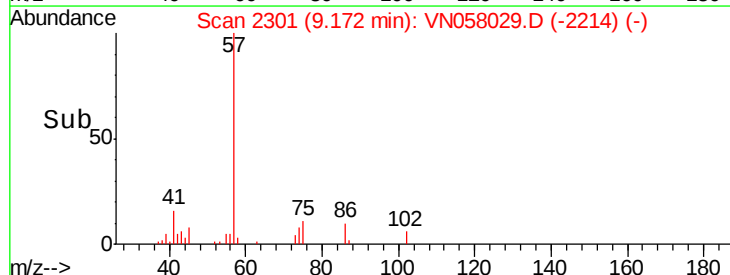
0

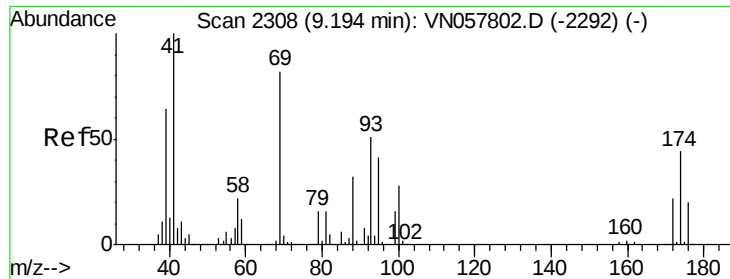
9.10

9.15

9.20

Time-->





#49

1,4-Dioxane

Concen: 0.649 ug/l

RT: 9.26 min Scan# 2327

Delta R.T. 0.06 min

Lab File: VN058029.D

Acq: 13 Sep 2019 20:07

Instrument :

MSVOA_N

ClientSampled :

T3-3-(1.5)

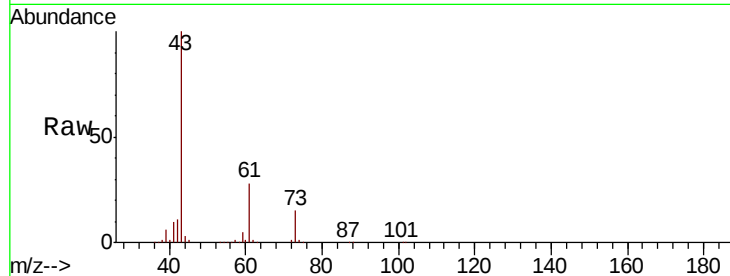
Tgt Ion: 88 Resp: 60

Ion Ratio Lower Upper

88 100

43 2329408.3 28.5 42.7#

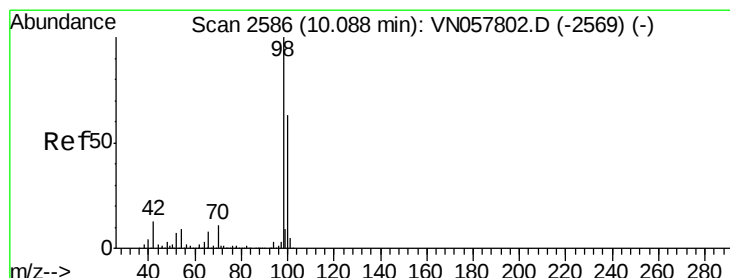
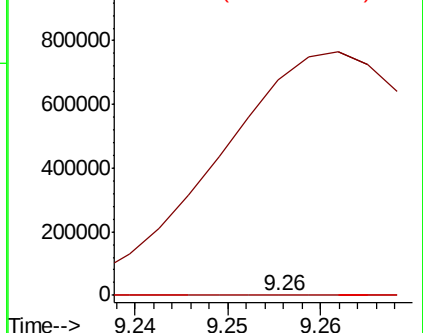
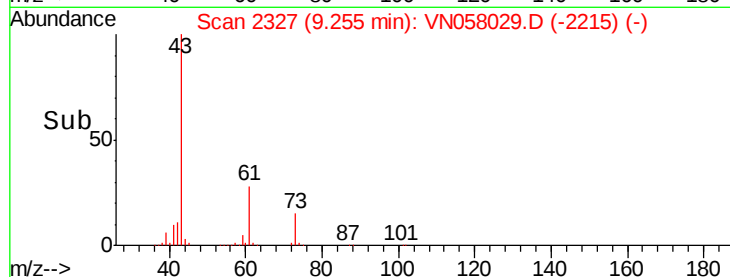
58 11056.7 55.8 83.6#



Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#50

Toluene-d8

Concen: 46.888 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. 0.00 min

Lab File: VN058029.D

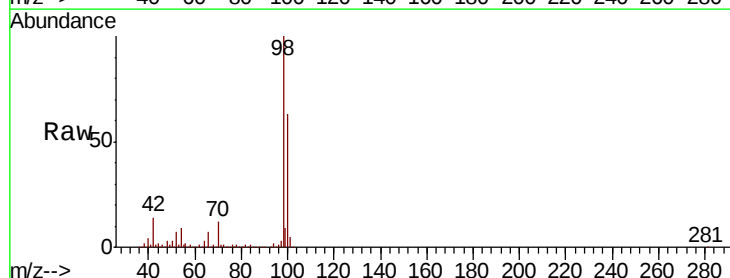
Acq: 13 Sep 2019 20:07

Tgt Ion: 98 Resp: 898686

Ion Ratio Lower Upper

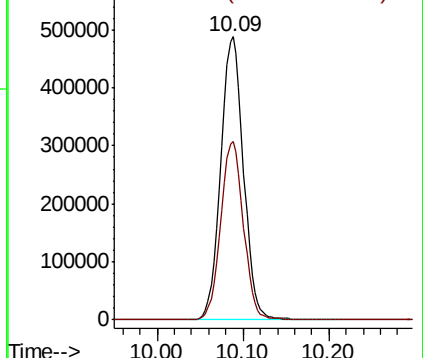
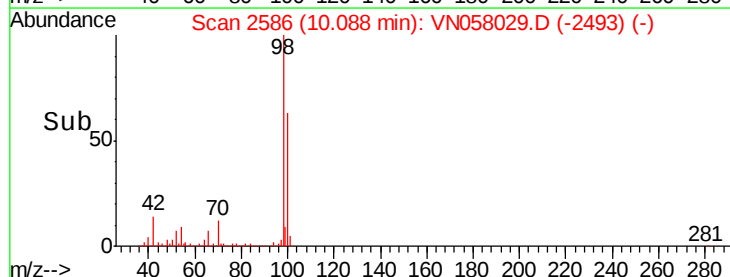
98 100

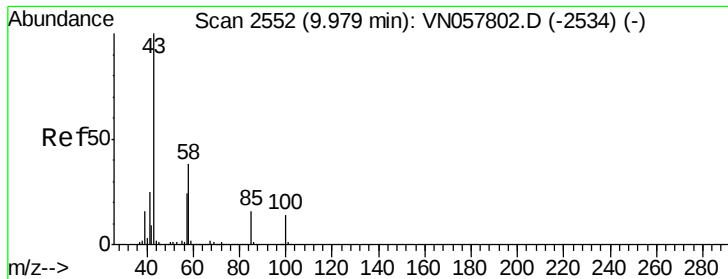
100 62.8 50.3 75.5



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0

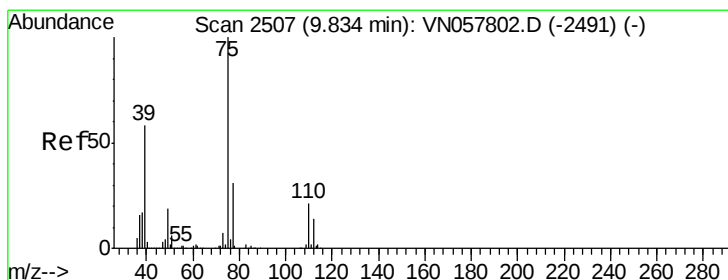
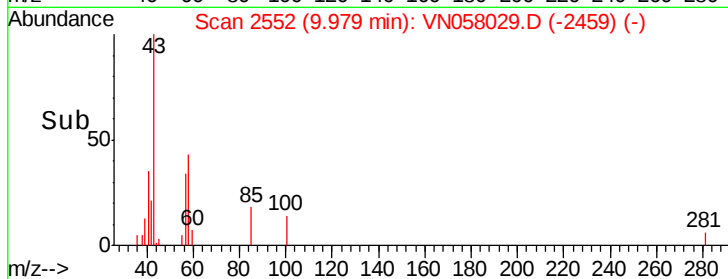
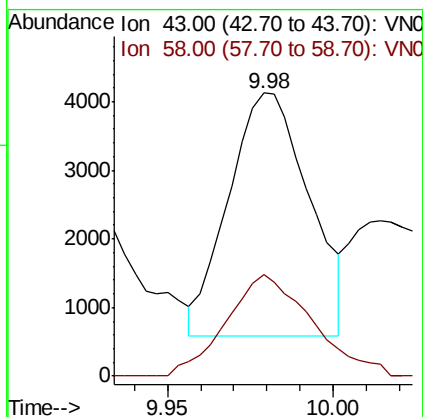
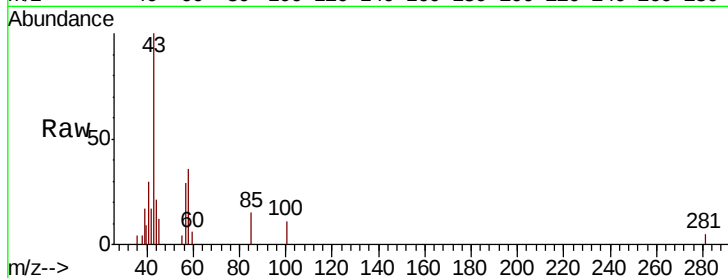




#51
 4-Methyl-2-Pentanone
 Concen: 0.936 ug/l
 RT: 9.98 min Scan# 2552
 Delta R.T. 0.00 min
 Lab File: VN058029.D
 Acq: 13 Sep 2019 20:07

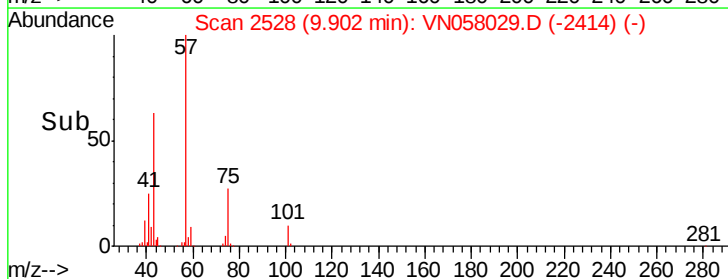
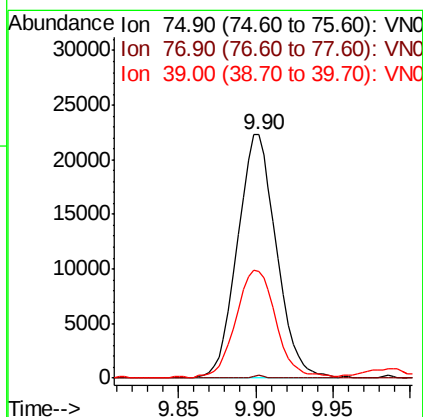
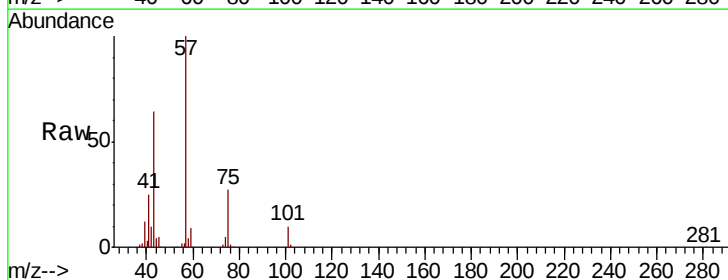
Instrument :
 MSVOA_N
 ClientSampleId :
 T3-3-(1.5)

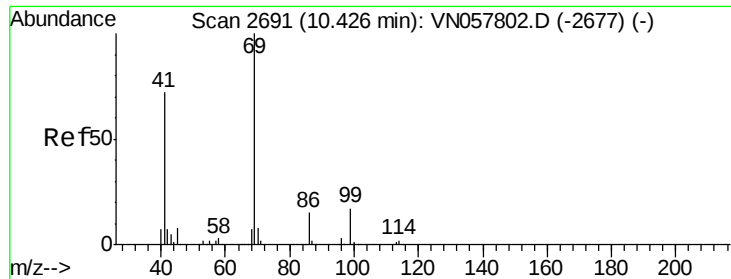
Tgt Ion: 43 Resp: 5972
 Ion Ratio Lower Upper
 43 100
 58 44.8 29.8 44.6#



#54
 cis-1,3-Dichloropropene
 Concen: 5.118 ug/l
 RT: 9.90 min Scan# 2528
 Delta R.T. 0.07 min
 Lab File: VN058029.D
 Acq: 13 Sep 2019 20:07

Tgt Ion: 75 Resp: 39023
 Ion Ratio Lower Upper
 75 100
 77 1.0 24.8 37.2#
 39 43.9 46.2 69.4#

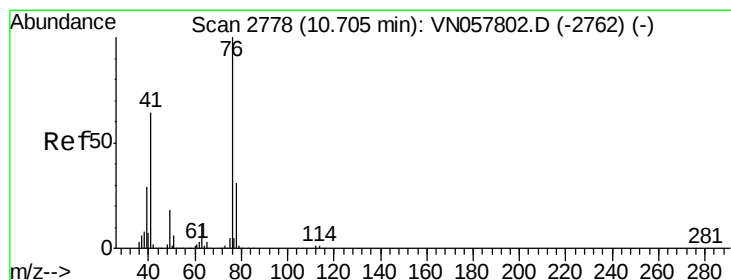
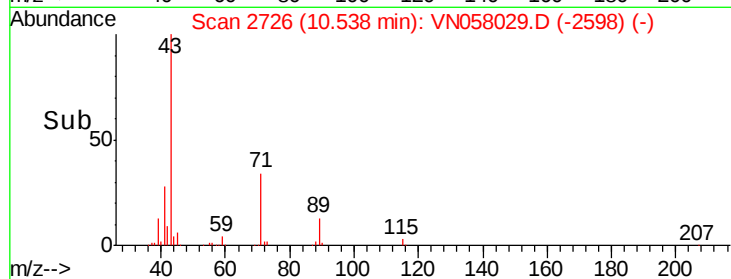
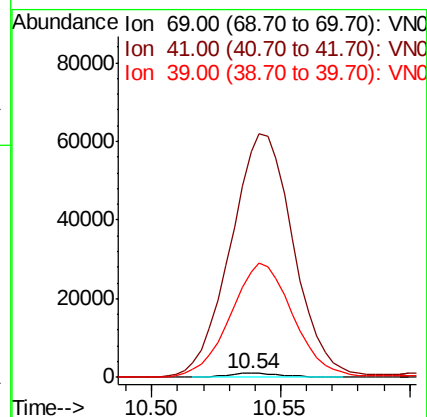
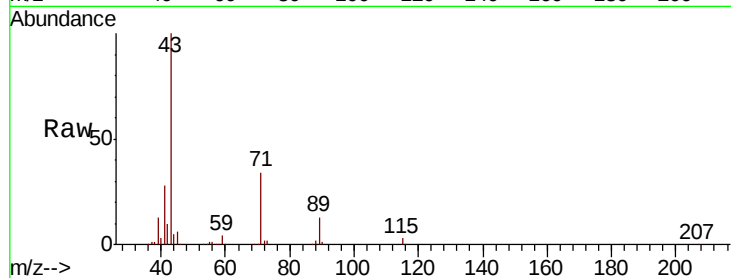




#56
Ethyl methacrylate
Concen: 0.212 ug/l
RT: 10.54 min Scan# 2726
Delta R.T. 0.11 min
Lab File: VN058029.D
Acq: 13 Sep 2019 20:07

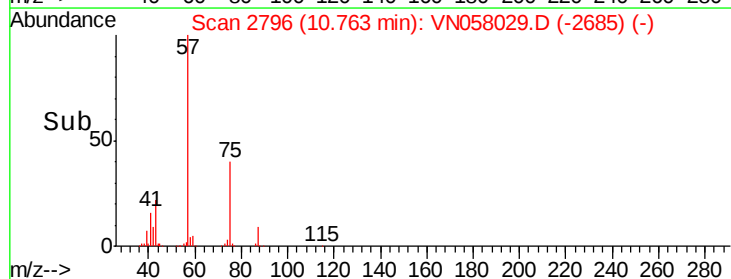
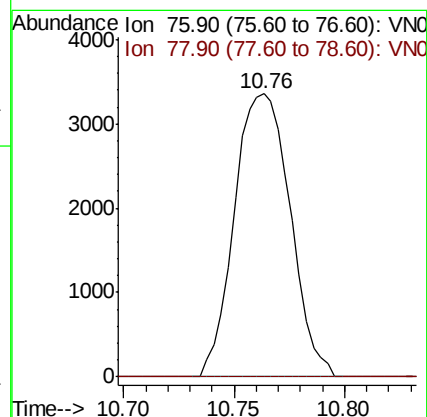
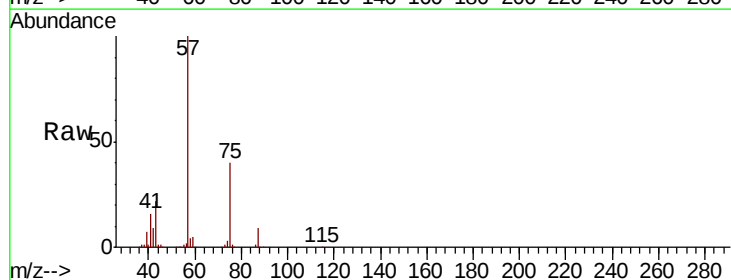
Instrument :
MSVOA_N
ClientSampled :
T3-3-(1.5)

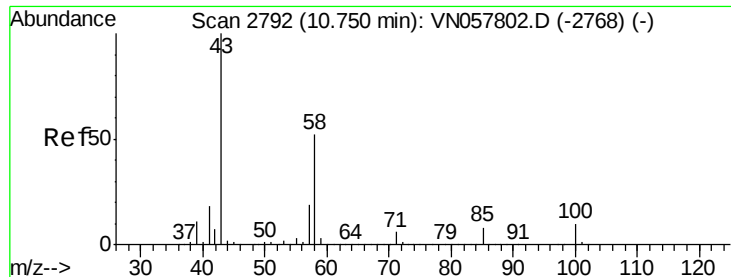
Tgt Ion: 69 Resp: 1591
Ion Ratio Lower Upper
69 100
41 6595.9 56.7 85.1#
39 3119.4 36.3 54.5#



#57
1,3-Dichloropropane
Concen: 0.687 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.06 min
Lab File: VN058029.D
Acq: 13 Sep 2019 20:07

Tgt Ion: 76 Resp: 5895
Ion Ratio Lower Upper
76 100
78 0.0 25.4 38.2#

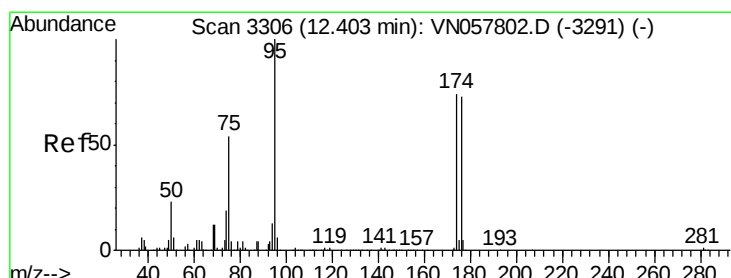
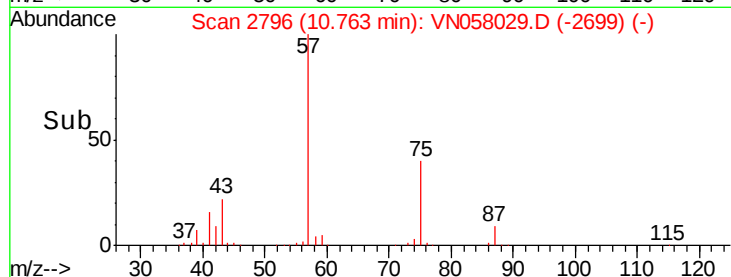
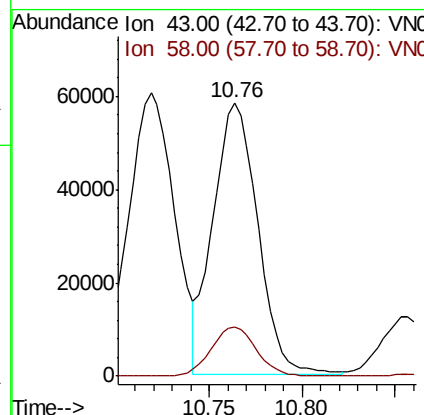
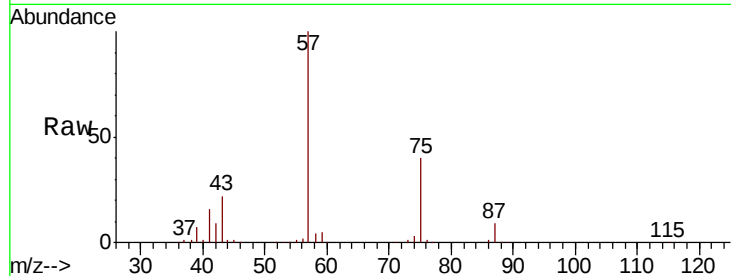




#59
2-Hexanone
Concen: 20.360 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN058029.D
Acq: 13 Sep 2019 20:07

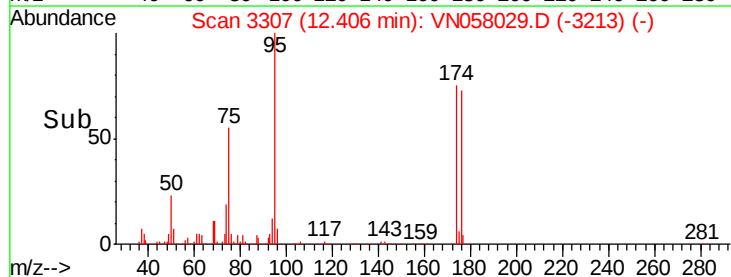
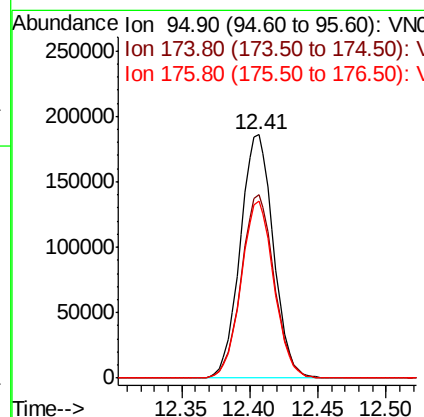
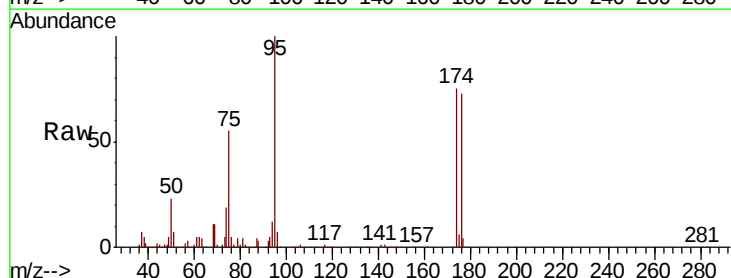
Instrument :
MSVOA_N
ClientSampled :
T3-3-(1.5)

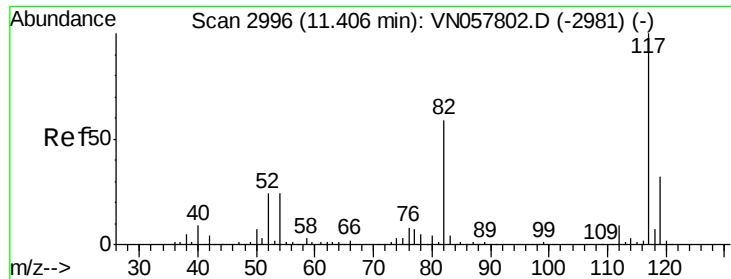
Tgt Ion: 43 Resp: 97333
Ion Ratio Lower Upper
43 100
58 18.3 25.6 76.8#



#62
4-Bromofluorobenzene
Concen: 42.925 ug/l
RT: 12.41 min Scan# 3307
Delta R.T. 0.00 min
Lab File: VN058029.D
Acq: 13 Sep 2019 20:07

Tgt Ion: 95 Resp: 313534
Ion Ratio Lower Upper
95 100
174 74.9 0.0 150.2
176 72.1 0.0 146.0

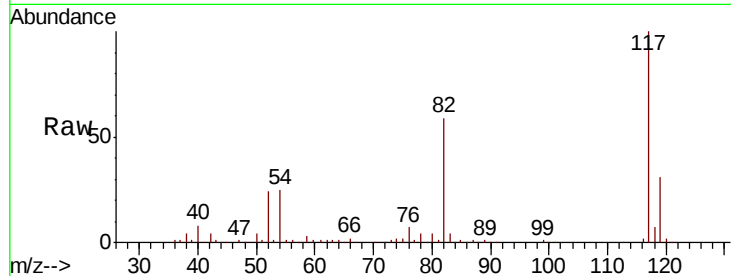




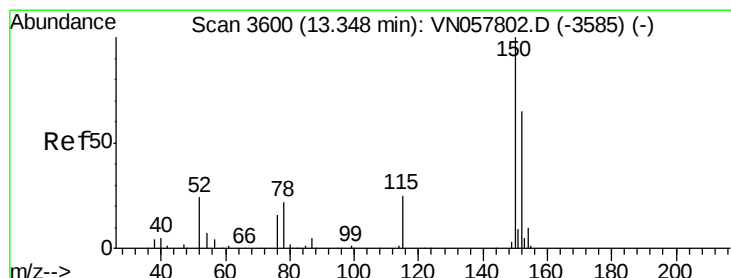
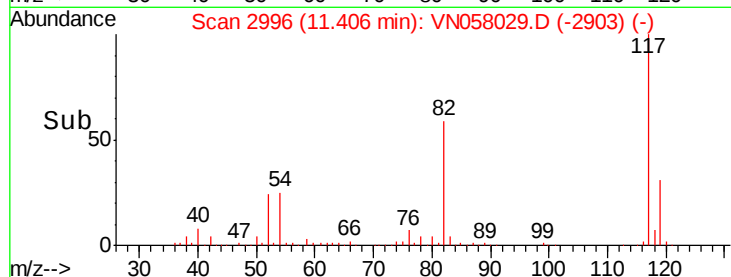
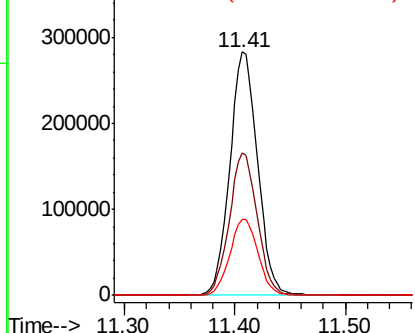
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN058029.D
Acq: 13 Sep 2019 20:07

Instrument :
MSVOA_N
ClientSampleId :
T3-3-(1.5)

Tgt Ion:117 Resp: 492708
Ion Ratio Lower Upper
117 100
82 58.7 47.2 70.8
119 31.1 25.3 37.9

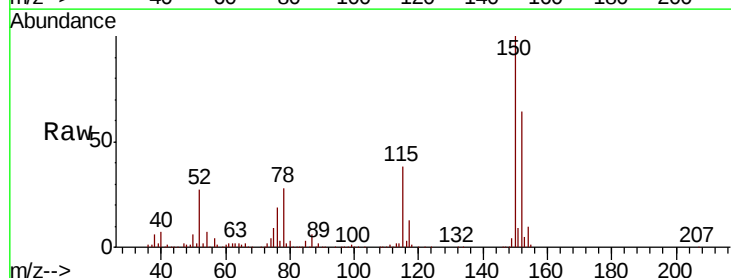


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

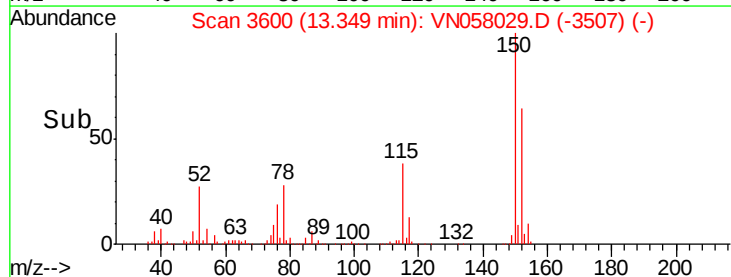
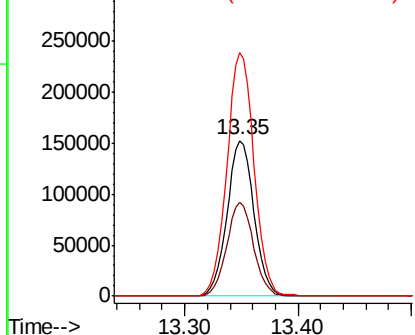


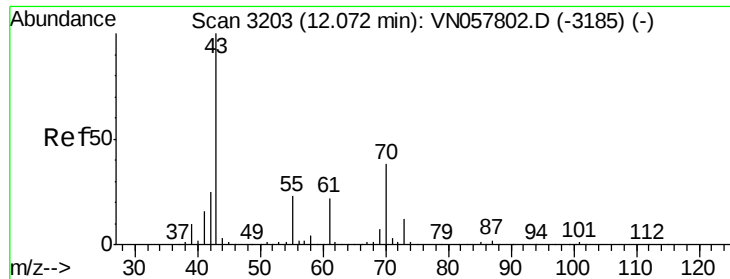
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3600
Delta R.T. 0.00 min
Lab File: VN058029.D
Acq: 13 Sep 2019 20:07

Tgt Ion:152 Resp: 252453
Ion Ratio Lower Upper
152 100
115 60.1 30.3 91.0
150 158.1 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-ethyl acetate

Concen: 0.493 ug/l

RT: 12.04 min Scan# 3192

Delta R.T. -0.04 min

Lab File: VN058029.D

Acq: 13 Sep 2019 20:07

Instrument :

MSVOA_N

ClientSampleId :

T3-3-(1.5)

Tgt Ion: 43 Resp: 4200

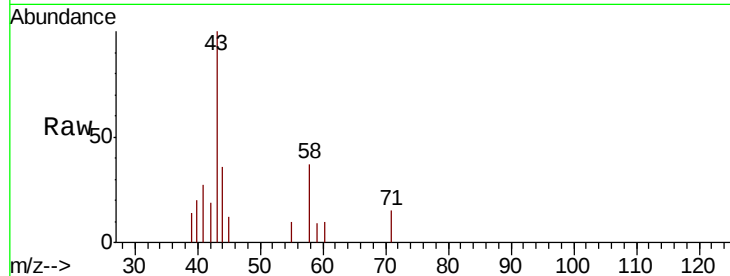
Ion Ratio Lower Upper

43 100

70 0.8 30.6 45.8#

55 6.6 18.6 27.8#

61 0.0 17.4 26.2#

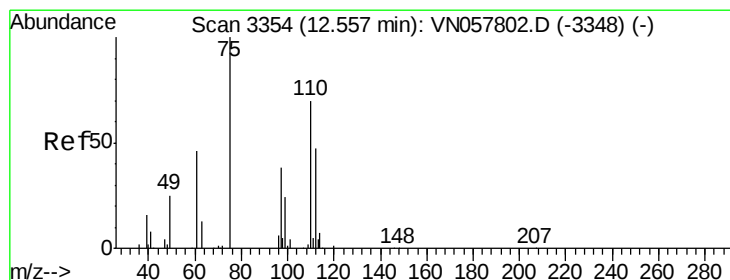
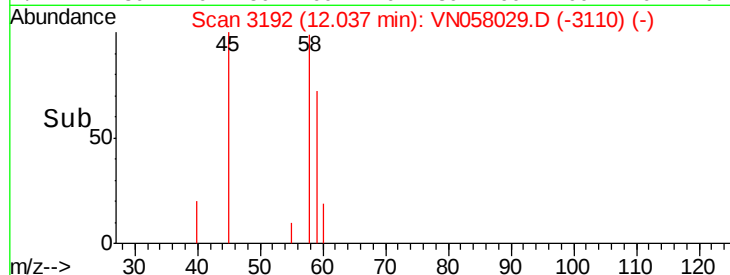
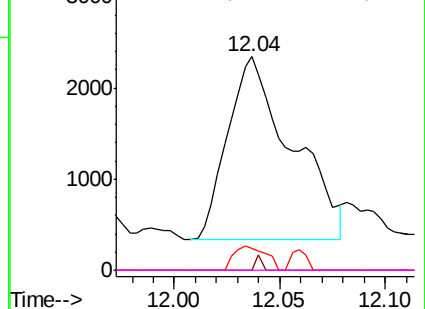


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 30.177 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN058029.D

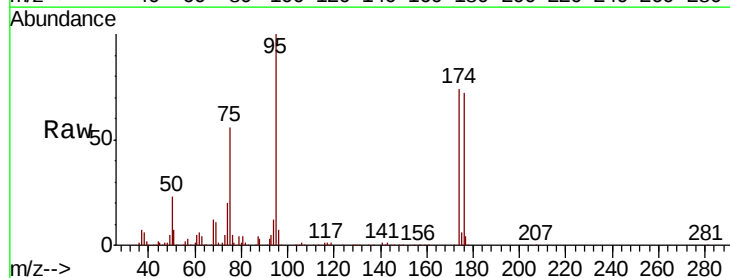
Acq: 13 Sep 2019 20:07

Tgt Ion: 75 Resp: 172340

Ion Ratio Lower Upper

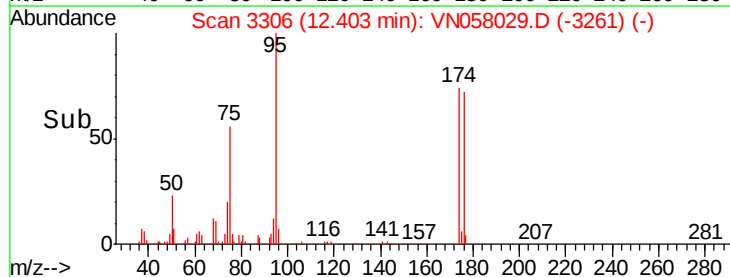
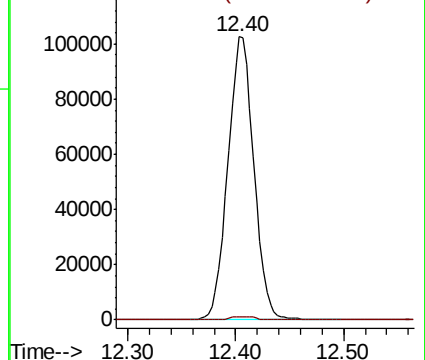
75 100

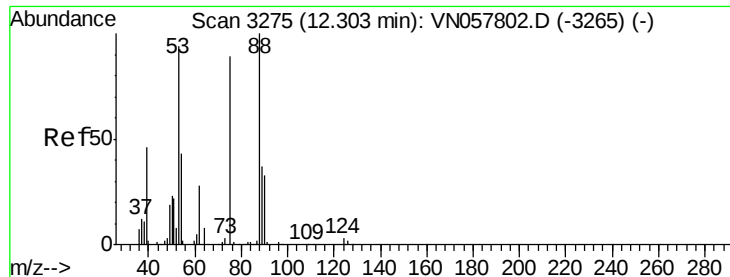
77 0.6 0.0 0.0#



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: 106.194 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN058029.D

Acq: 13 Sep 2019 20:07

Instrument :

MSVOA_N

ClientSampled :

T3-3-(1.5)

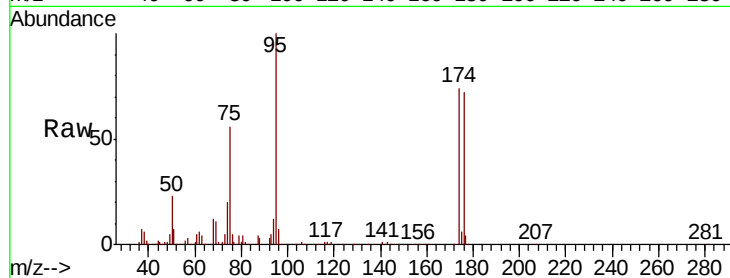
Tgt Ion: 75 Resp: 172340

Ion Ratio Lower Upper

75 100

53 0.0 88.4 132.6#

89 0.0 35.3 52.9#

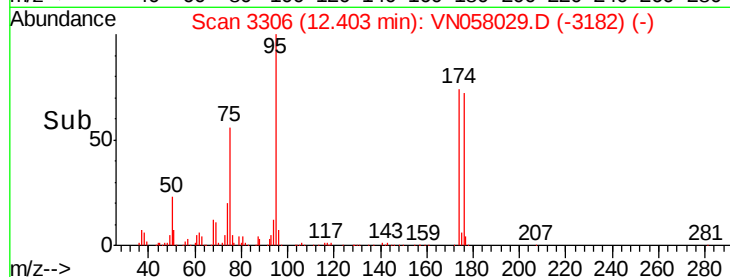


Abundance Ion 74.90 (74.60 to 75.60): VN058029.D (-3306) (-)

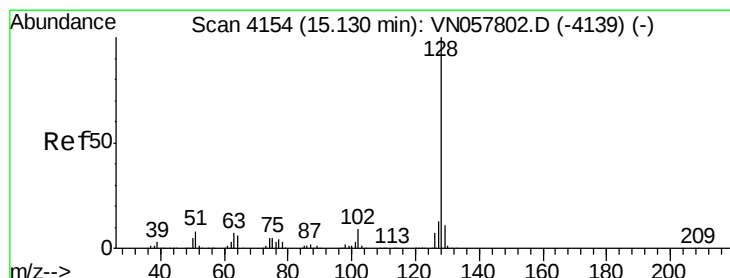
Ion 53.00 (52.70 to 53.70): VN058029.D (-3306) (-)

Ion 88.90 (88.60 to 89.60): VN058029.D (-3306) (-)

12.40



Time-->



#95

Naphthalene

Concen: Below Cal

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN058029.D

Acq: 13 Sep 2019 20:07

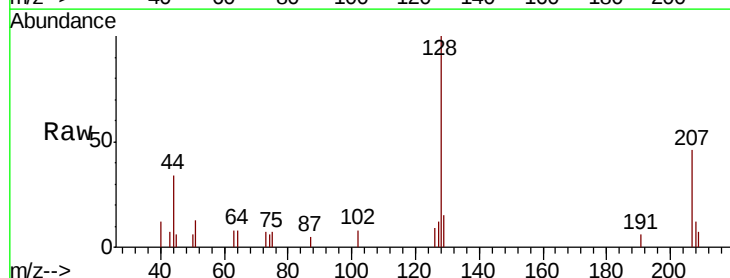
Tgt Ion: 128 Resp: 5627

Ion Ratio Lower Upper

128 100

127 10.2 10.3 15.5#

129 11.3 8.6 12.8

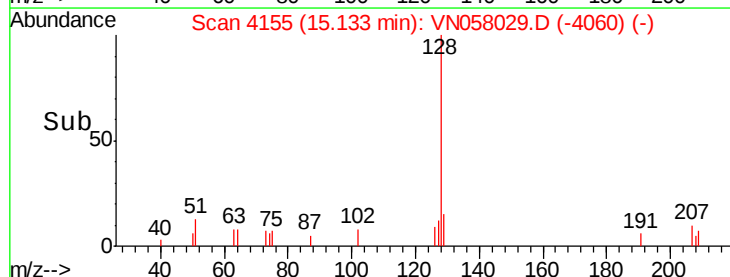


Abundance Ion 128.00 (127.70 to 128.70): VN058029.D (-4155) (-)

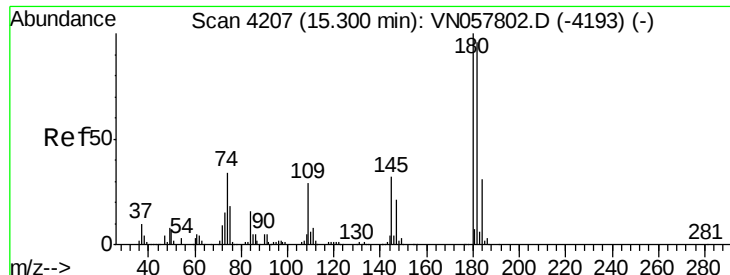
Ion 127.00 (126.70 to 127.70): VN058029.D (-4155) (-)

Ion 129.00 (128.70 to 129.70): VN058029.D (-4155) (-)

15.13



Time-->



#96
 1,2,3-Trichlorobenzene
 Concen: 1.225 ug/l
 RT: 15.30 min Scan# 4207
 Delta R.T. 0.00 min
 Lab File: VN058029.D
 Acq: 13 Sep 2019 20:07

Instrument :
 MSVOA_N
 ClientSampleId :
 T3-3-(1.5)

Tgt Ion	Resp	Lower	Upper
180	100		
182	82.1	48.3	144.8
145	28.0	16.3	48.8

