

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN091619\
 Data File : VN058114.D
 Acq On : 16 Sep 2019 13:34
 Operator : JC/SP
 Sample : K4694-40
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 T3-1-(0)

Quant Time: Sep 17 03:50:34 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	312857	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	514865	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	473386	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	251958	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	357952	56.49	ug/l	0.00
Spiked Amount			Recovery	=	112.98%	
35) Dibromofluoromethane	7.58	113	244916	51.54	ug/l	0.00
Spiked Amount			Recovery	=	103.08%	
50) Toluene-d8	10.09	98	963331	52.21	ug/l	0.00
Spiked Amount			Recovery	=	104.42%	
62) 4-Bromofluorobenzene	12.40	95	321023	45.66	ug/l	0.00
Spiked Amount			Recovery	=	91.32%	

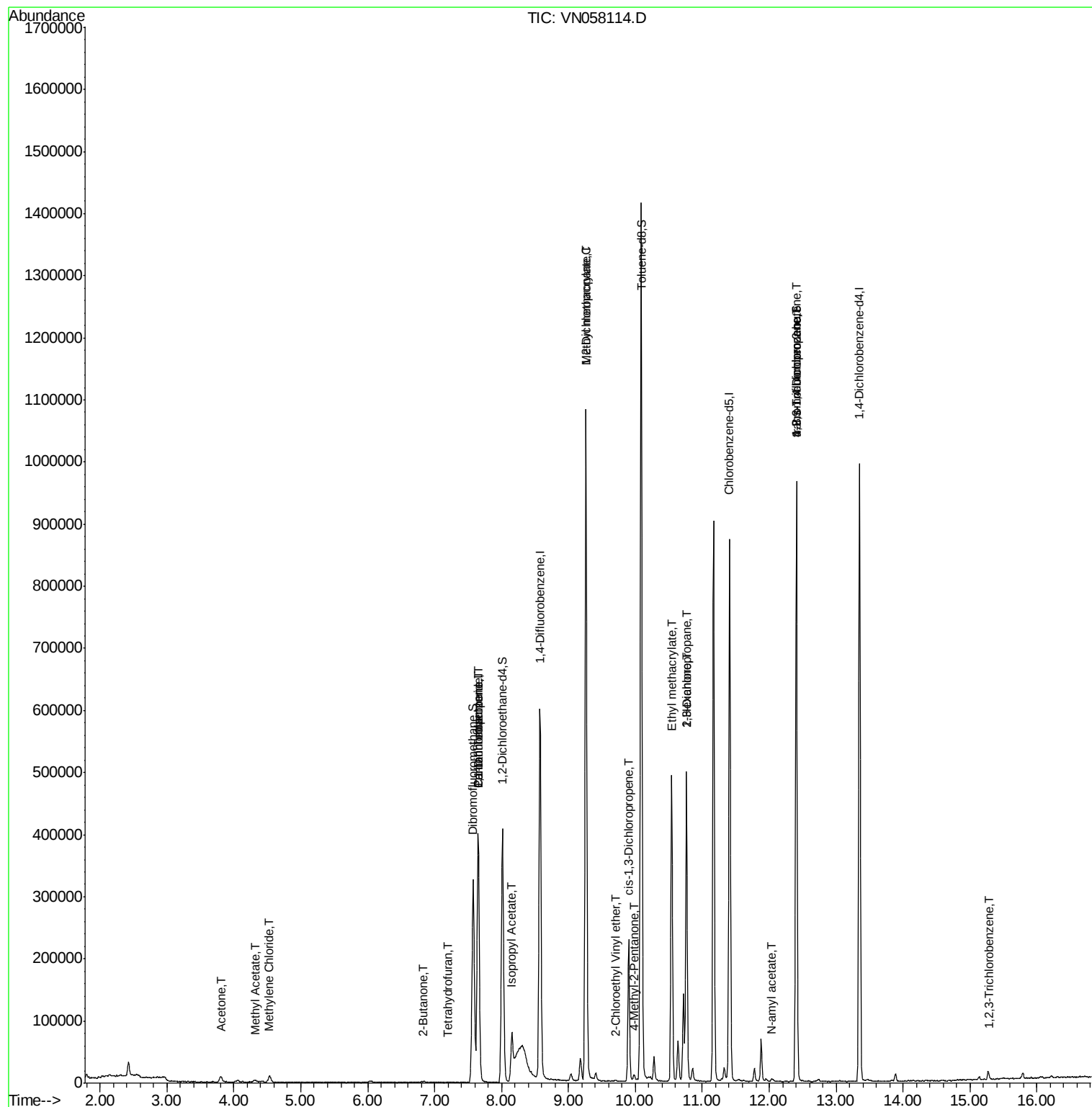
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.54	94	71	Below Cal	#	2
16) Acetone	3.81	43	15575	7.498	ug/l	99
18) Methyl Acetate	4.32	43	5927	1.070	ug/l #	66
20) Methylene Chloride	4.53	84	6860	0.516	ug/l	93
25) 2-Butanone	6.83	43	3521	1.171	ug/l #	84
29) Tetrahydrofuran	7.20	42	671	0.362	ug/l #	64
31) Cyclohexane	7.65	56	8437	Below Cal	#	33
36) 1,1-Dichloropropene	7.65	75	26847	4.496	ug/l #	46
38) Carbon Tetrachloride	7.65	117	31067	5.699	ug/l #	16
43) Isopropyl Acetate	8.15	43	107145	10.328	ug/l #	84
45) 1,2-Dichloropropane	9.26	63	1368	0.262	ug/l #	44
48) Methyl methacrylate	9.26	41	110064	20.914	ug/l #	46
51) 4-Methyl-2-Pentanone	9.98	43	7991	1.302	ug/l	99
54) cis-1,3-Dichloropropene	9.90	75	37664	5.132	ug/l #	67
56) Ethyl methacrylate	10.54	69	1827	0.253	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	5188	0.628	ug/l #	43
58) 2-Chloroethyl Vinyl ether	9.70	63	855	0.251	ug/l #	69
59) 2-Hexanone	10.76	43	74755	16.245	ug/l #	55
74) N-amyl acetate	12.04	43	4424	0.520	ug/l #	47
76) 1,2,3-Trichloropropane	12.40	75	176097	30.896	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	176097	108.723	ug/l #	6
95) Naphthalene	15.14	128	3220	Below Cal	#	89
96) 1,2,3-Trichlorobenzene	15.29	180	129	1.023	ug/l #	12

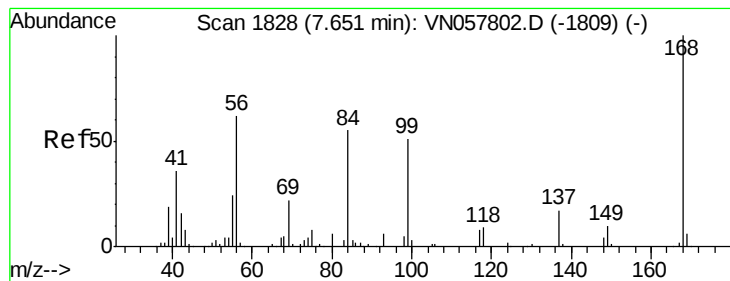
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN058114.D

Acq: 16 Sep 2019 13:34

Instrument :

MSVOA_N

ClientSampleId :

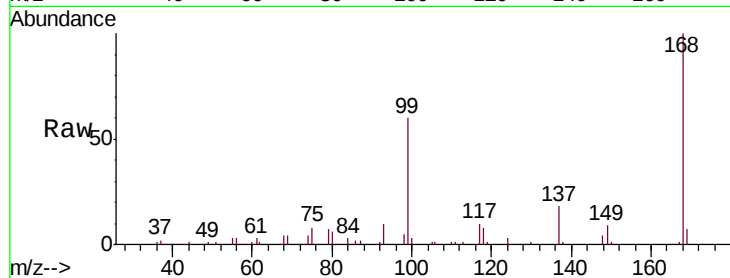
T3-1-(0)

Tgt Ion:168 Resp: 312857

Ion Ratio Lower Upper

168 100

99 59.9 48.0 72.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.65

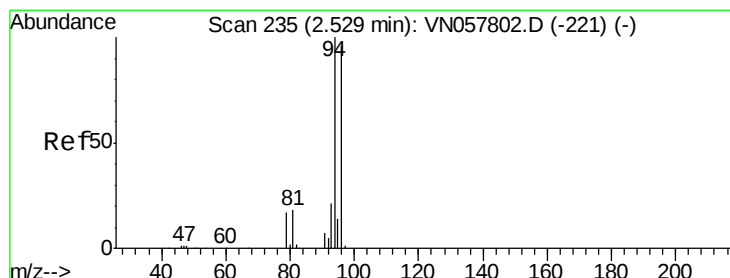
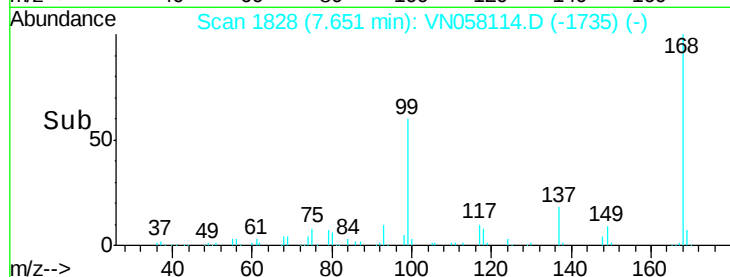
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.54 min Scan# 239

Delta R.T. 0.01 min

Lab File: VN058114.D

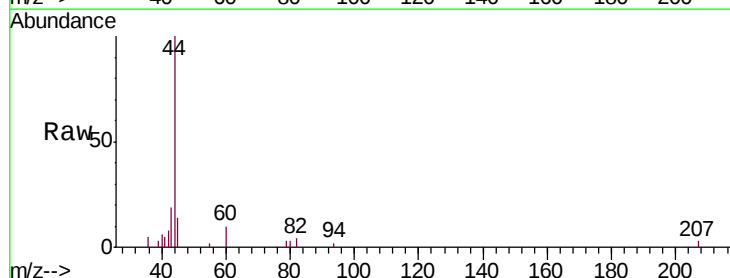
Acq: 16 Sep 2019 13:34

Tgt Ion: 94 Resp: 71

Ion Ratio Lower Upper

94 100

96 0.0 77.0 115.4#



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO

2.54

200

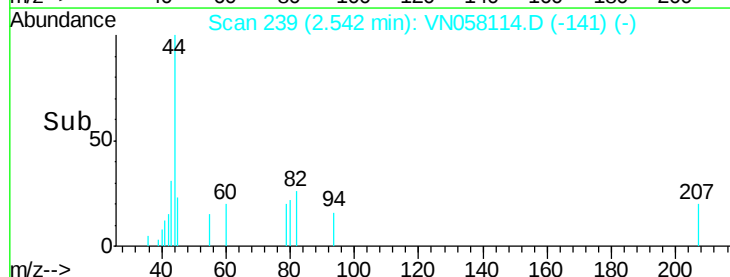
150

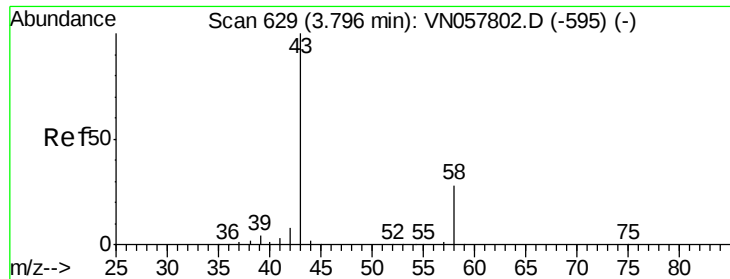
100

50

0

Time-->





#16

Acetone

Concen: 7.498 ug/l

RT: 3.81 min Scan# 632

Delta R.T. 0.01 min

Lab File: VN058114.D

Acq: 16 Sep 2019 13:34

Instrument :

MSVOA_N

ClientSampleId :

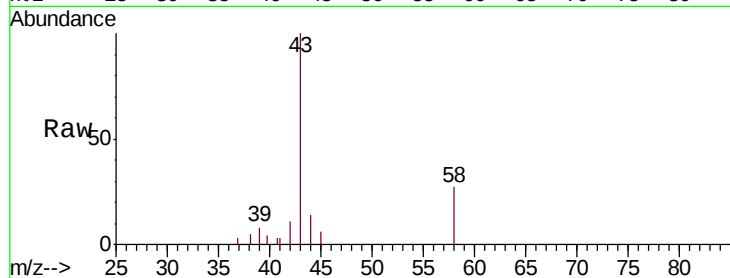
T3-1-(0)

Tgt Ion: 43 Resp: 15575

Ion Ratio Lower Upper

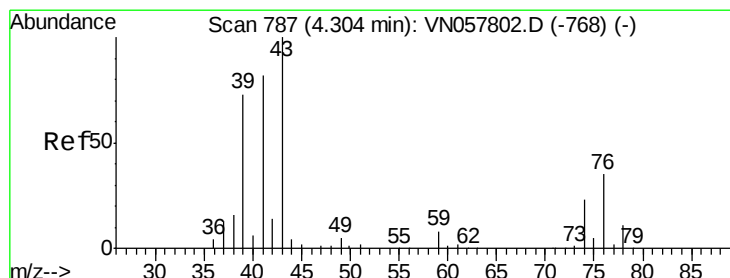
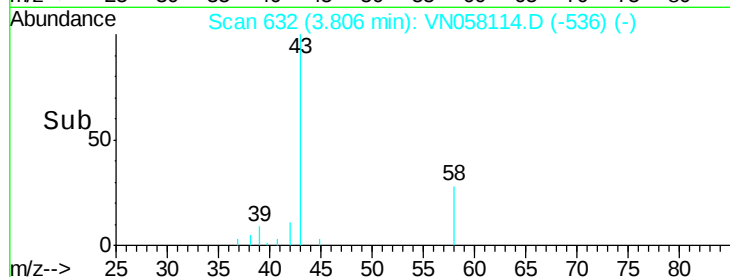
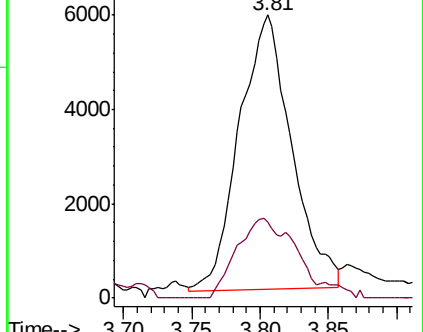
43 100

58 28.1 22.2 33.2



Abundance Ion 43.00 (42.70 to 43.70): VN058114.D (-536) (-)

Ion 58.00 (57.70 to 58.70): VN058114.D (-536) (-)



#18

Methyl Acetate

Concen: 1.070 ug/l

RT: 4.32 min Scan# 791

Delta R.T. 0.01 min

Lab File: VN058114.D

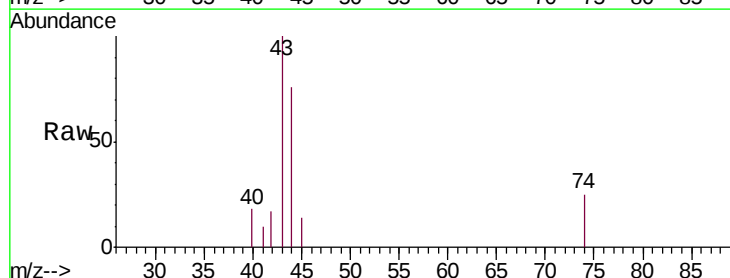
Acq: 16 Sep 2019 13:34

Tgt Ion: 43 Resp: 5927

Ion Ratio Lower Upper

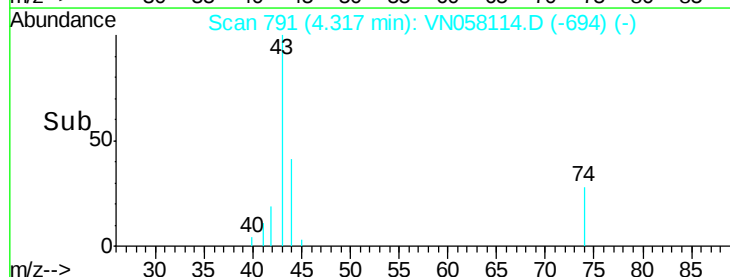
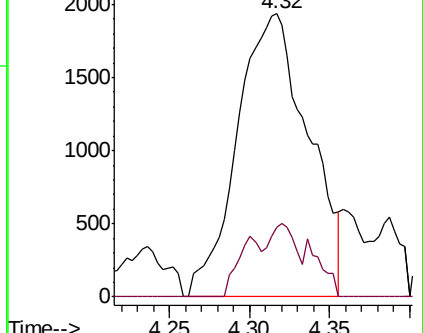
43 100

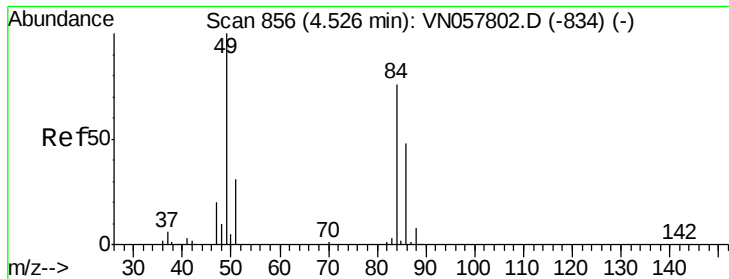
74 5.9 17.9 26.9#



Abundance Ion 43.00 (42.70 to 43.70): VN058114.D (-694) (-)

Ion 74.00 (73.70 to 74.70): VN058114.D (-694) (-)

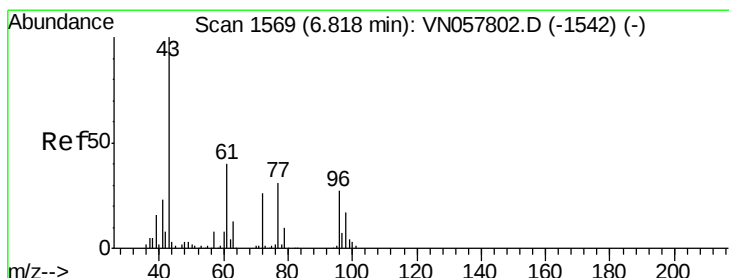
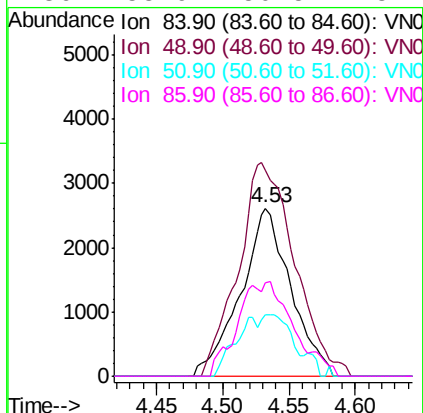
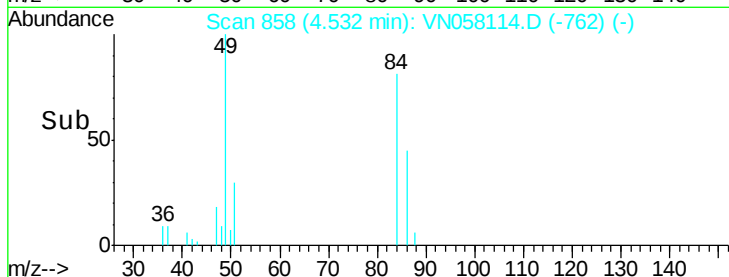
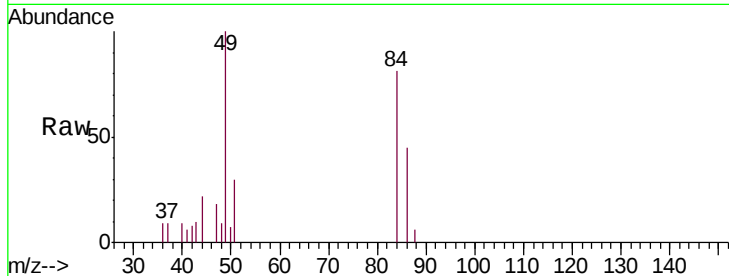




#20
Methylene Chloride
Concen: 0.516 ug/l
RT: 4.53 min Scan# 858
Delta R.T. 0.01 min
Lab File: VN058114.D
Acq: 16 Sep 2019 13:34

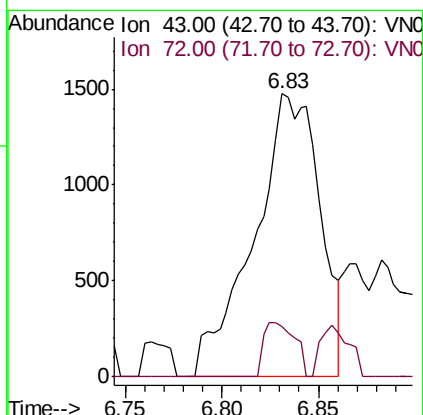
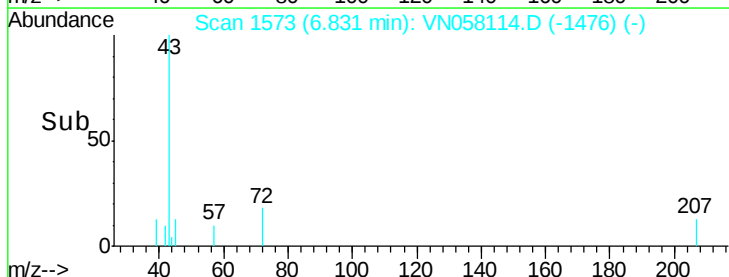
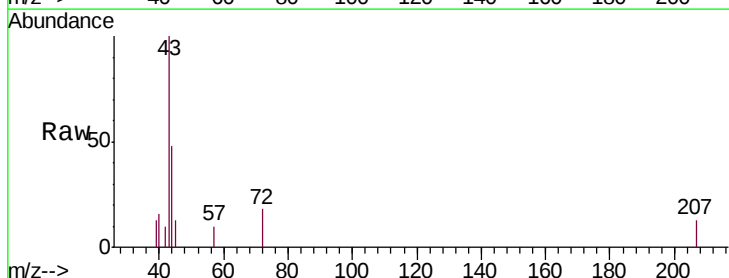
Instrument :
MSVOA_N
ClientSampleId :
T3-1-(0)

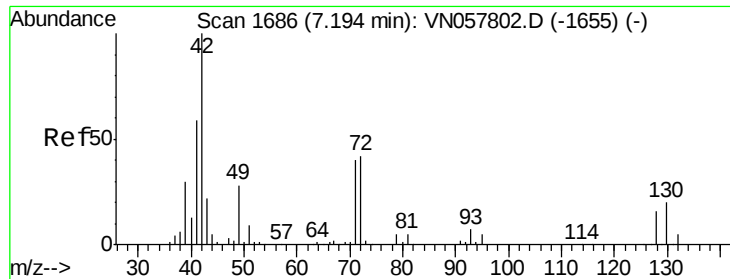
Tgt Ion:	84	Resp:	6860
Ion	Ratio	Lower	Upper
84	100		
49	123.1	104.8	157.2
51	36.8	33.0	49.4
86	55.9	50.5	75.7



#25
2-Butanone
Concen: 1.171 ug/l
RT: 6.83 min Scan# 1573
Delta R.T. 0.01 min
Lab File: VN058114.D
Acq: 16 Sep 2019 13:34

Tgt Ion:	43	Resp:	3521
Ion	Ratio	Lower	Upper
43	100		
72	17.8	20.6	30.8#





#29

Tetrahydrofuran

Concen: 0.362 ug/l

RT: 7.20 min Scan# 1689

Delta R.T. 0.01 min

Lab File: VN058114.D

Acq: 16 Sep 2019 13:34

Instrument :

MSVOA_N

ClientSampled :

T3-1-(0)

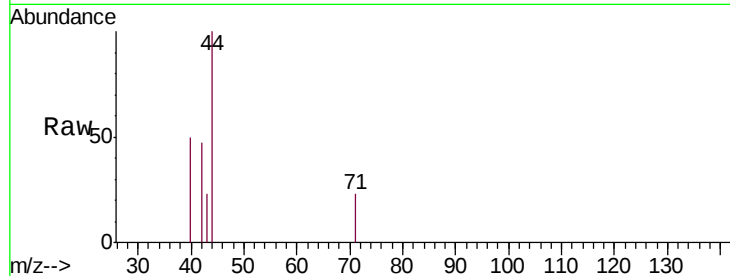
Tgt Ion: 42 Resp: 671

Ion Ratio Lower Upper

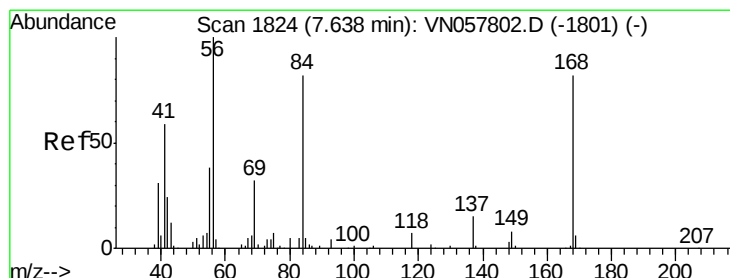
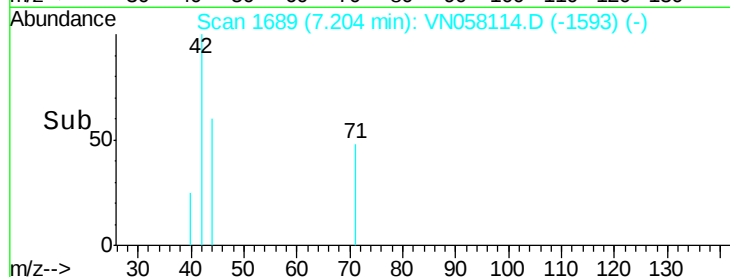
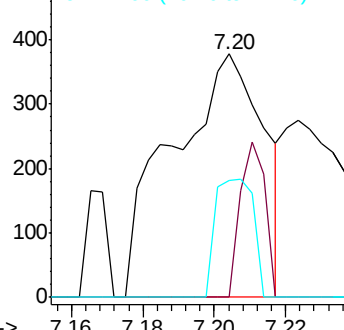
42 100

72 17.3 33.7 50.5#

71 20.0 31.9 47.9#



Abundance Ion 42.00 (41.70 to 42.70): VNO
Ion 72.00 (71.70 to 72.70): VNO
Ion 71.00 (70.70 to 71.70): VNO



#31

Cyclohexane

Concen: Below Cal

RT: 7.65 min Scan# 1829

Delta R.T. 0.02 min

Lab File: VN058114.D

Acq: 16 Sep 2019 13:34

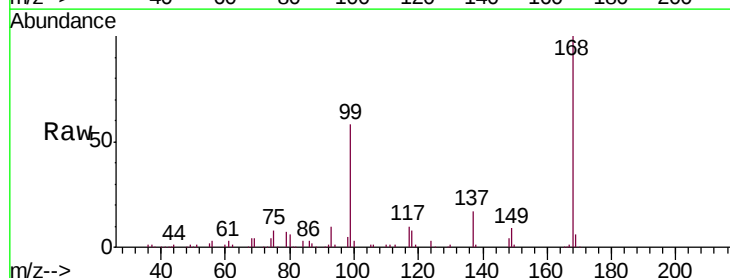
Tgt Ion: 56 Resp: 8437

Ion Ratio Lower Upper

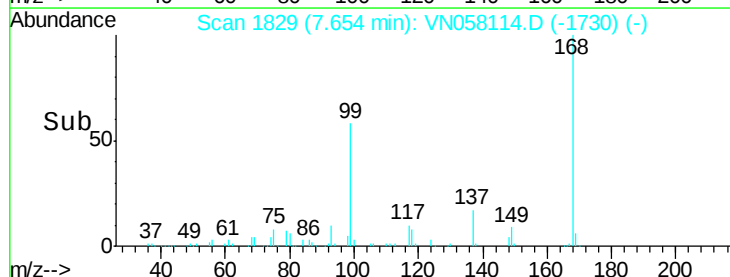
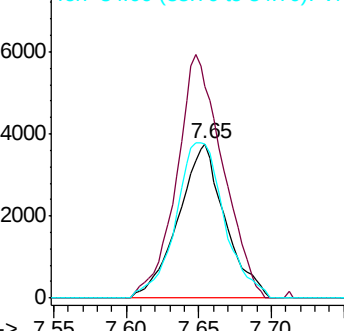
56 100

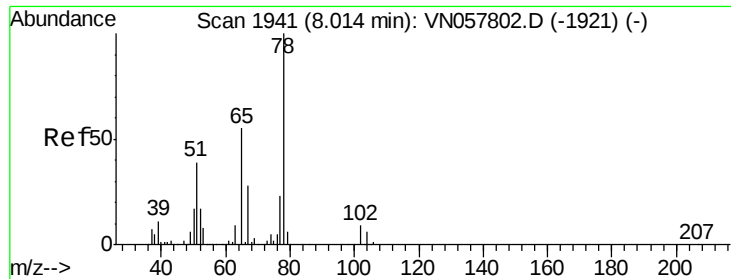
69 137.2 25.9 38.9#

84 100.0 65.6 98.4#



Abundance Ion 56.00 (55.70 to 56.70): VNO
Ion 69.00 (68.70 to 69.70): VNO
Ion 84.00 (83.70 to 84.70): VNO





#33

1,2-Dichloroethane-d4

Concen: 56.489 ug/l

RT: 8.01 min Scan# 1941

Delta R.T. 0.00 min

Lab File: VN058114.D

Acq: 16 Sep 2019 13:34

Instrument :

MSVOA_N

ClientSampleId :

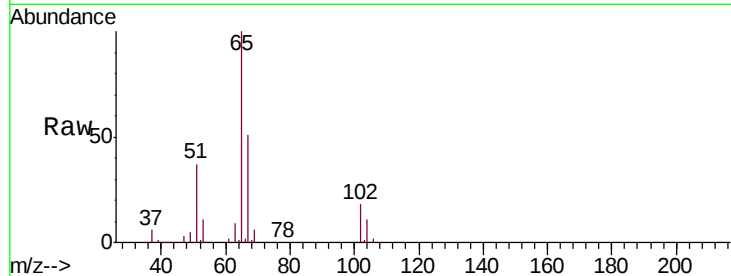
T3-1-(0)

Tgt Ion: 65 Resp: 357952

Ion Ratio Lower Upper

65 100

67 50.7 0.0 104.0



Abundance Ion 64.90 (64.60 to 65.60): VN058114.D (-1848) (-)

Ion 66.90 (66.60 to 67.60): VN058114.D (-1848) (-)

8.01

150000

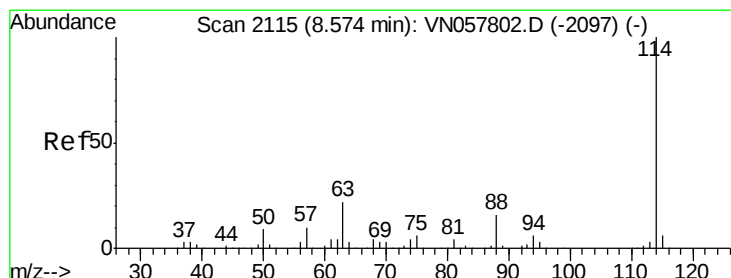
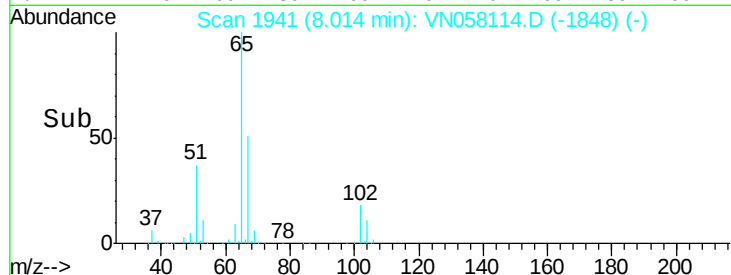
100000

50000

0

7.90 8.00 8.10

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2115

Delta R.T. 0.00 min

Lab File: VN058114.D

Acq: 16 Sep 2019 13:34

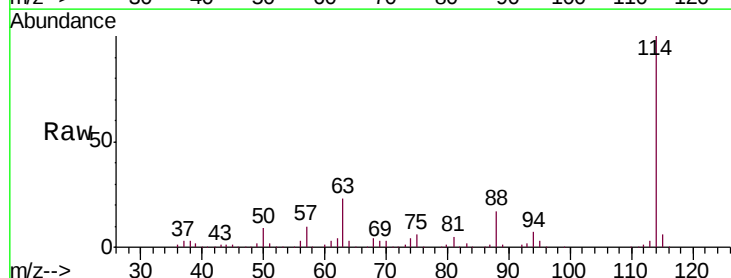
Tgt Ion: 114 Resp: 514865

Ion Ratio Lower Upper

114 100

63 23.0 0.0 44.0

88 16.5 0.0 31.4



Abundance Ion 113.90 (113.60 to 114.60): VN058114.D (-2022) (-)

Ion 63.00 (62.70 to 63.70): VN058114.D (-2022) (-)

Ion 87.90 (87.60 to 88.60): VN058114.D (-2022) (-)

8.57

300000

250000

200000

150000

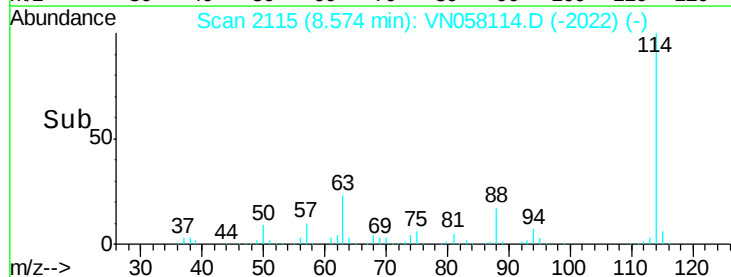
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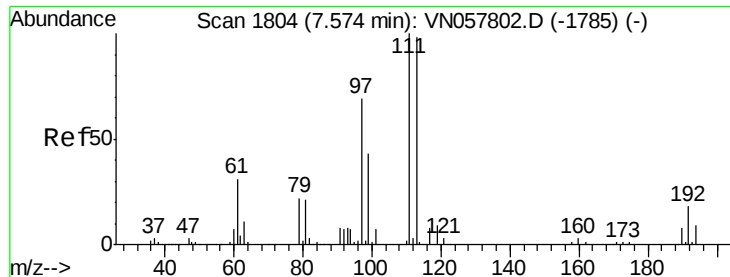
50000

0

8.50 8.60

Time-->

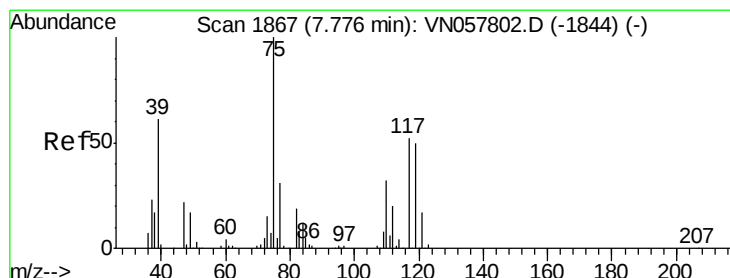
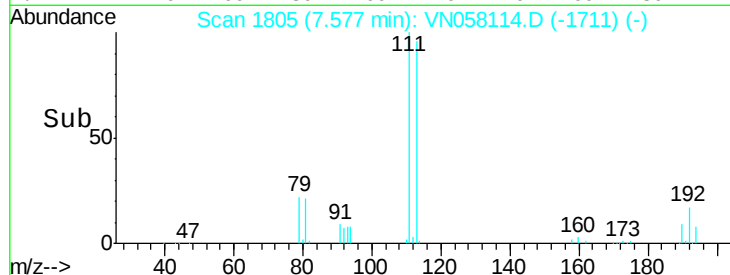
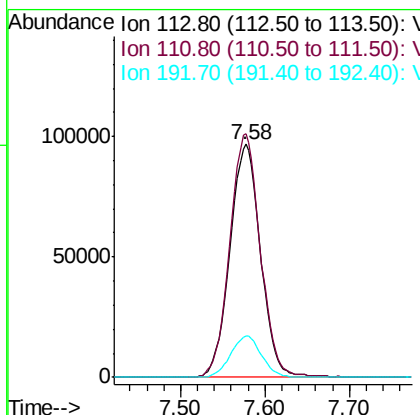
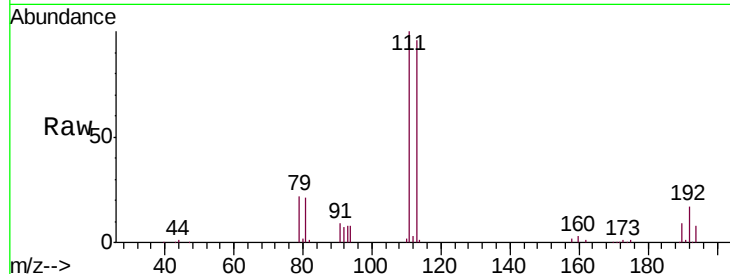




#35
 Dibromofluoromethane
 Concen: 51.540 ug/l
 RT: 7.58 min Scan# 1805
 Delta R.T. 0.00 min
 Lab File: VN058114.D
 Acq: 16 Sep 2019 13:34

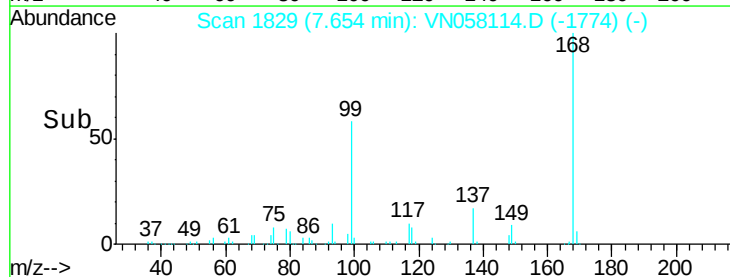
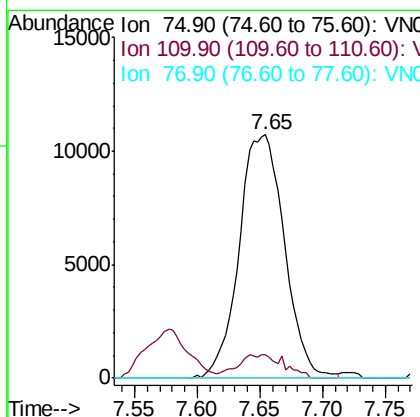
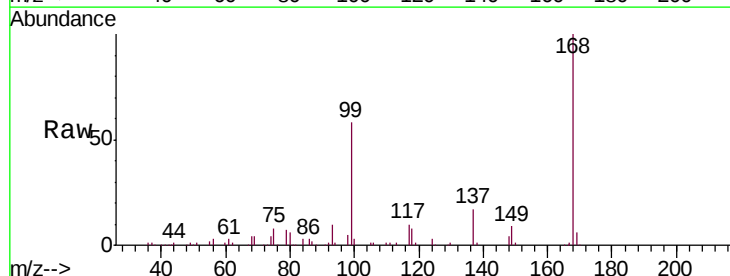
Instrument :
 MSVOA_N
 ClientSampled :
 T3-1-(0)

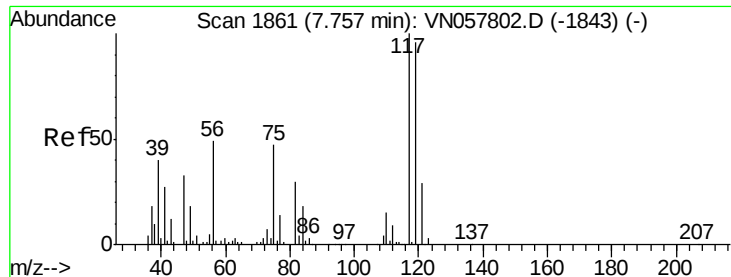
Tgt Ion	Ratio	Lower	Upper
113	100		
111	104.0	81.3	121.9
192	17.9	14.6	22.0



#36
 1,1-Dichloropropene
 Concen: 4.496 ug/l
 RT: 7.65 min Scan# 1829
 Delta R.T. -0.12 min
 Lab File: VN058114.D
 Acq: 16 Sep 2019 13:34

Tgt Ion	Ratio	Lower	Upper
75	100		
110	3.4	16.3	48.9#
77	0.0	25.0	37.4#





#38

Carbon Tetrachloride

Concen: 5.699 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.11 min

Lab File: VN058114.D

Acq: 16 Sep 2019 13:34

Instrument :
MSVOA_N
ClientSampled :
T3-1-(0)

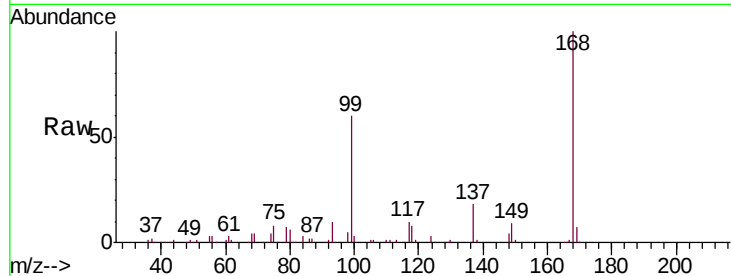
Tgt Ion: 117 Resp: 31067

Ion Ratio Lower Upper

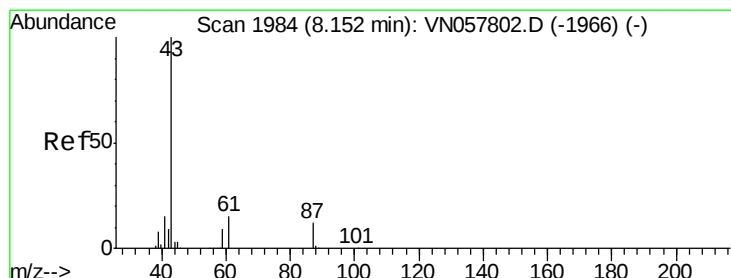
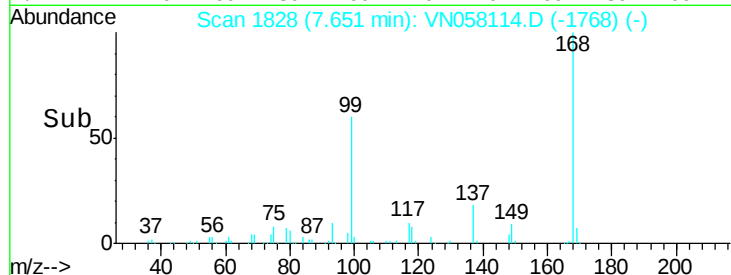
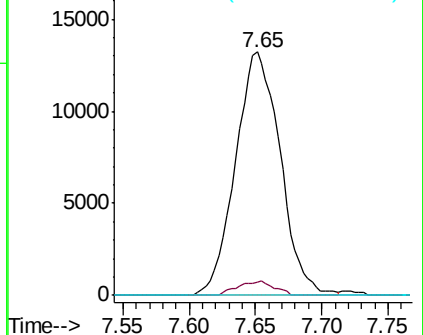
117 100

119 5.6 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: 10.328 ug/l

RT: 8.15 min Scan# 1984

Delta R.T. 0.00 min

Lab File: VN058114.D

Acq: 16 Sep 2019 13:34

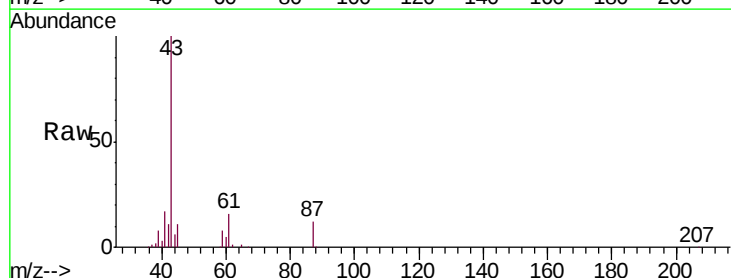
Tgt Ion: 43 Resp: 107145

Ion Ratio Lower Upper

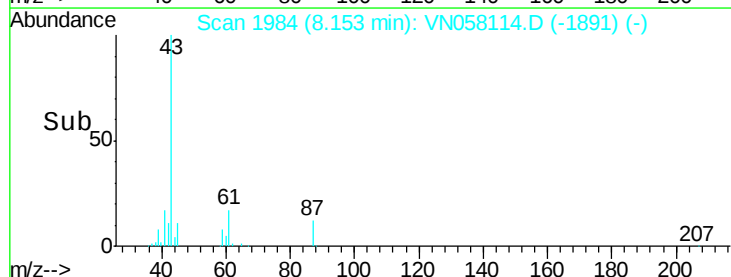
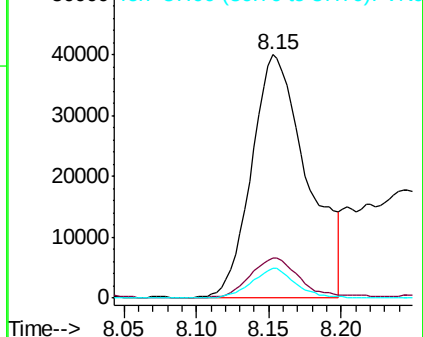
43 100

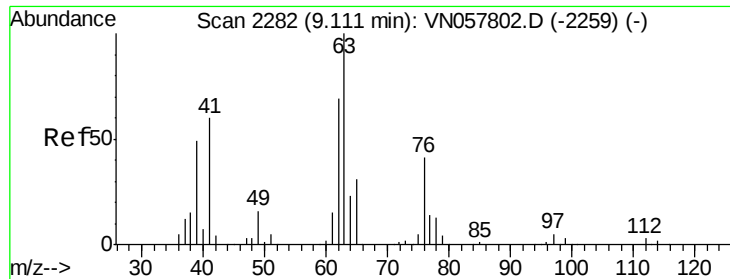
61 14.6 20.1 30.1#

87 9.6 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

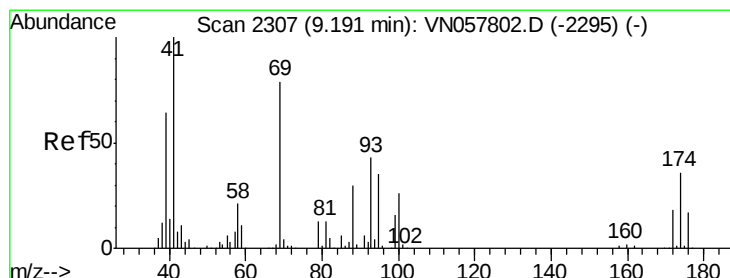
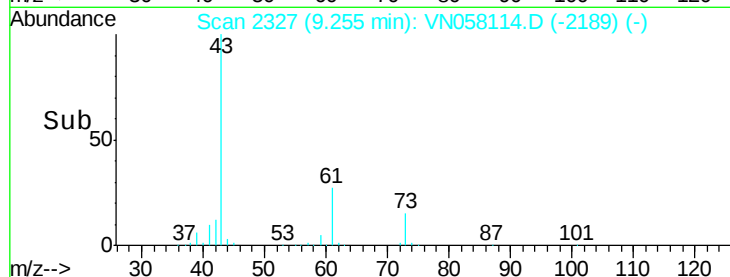
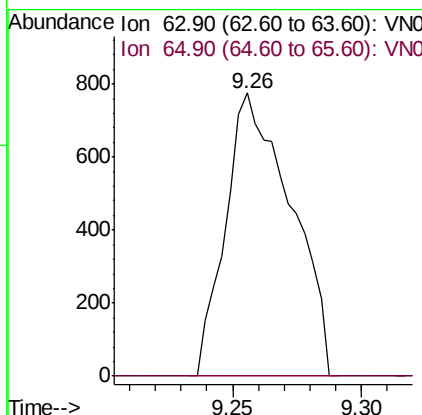
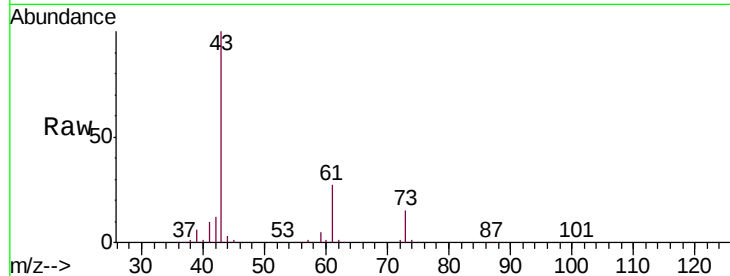




#45
 1,2-Dichloropropane
 Concen: 0.262 ug/l
 RT: 9.26 min Scan# 2327
 Delta R.T. 0.14 min
 Lab File: VN058114.D
 Acq: 16 Sep 2019 13:34

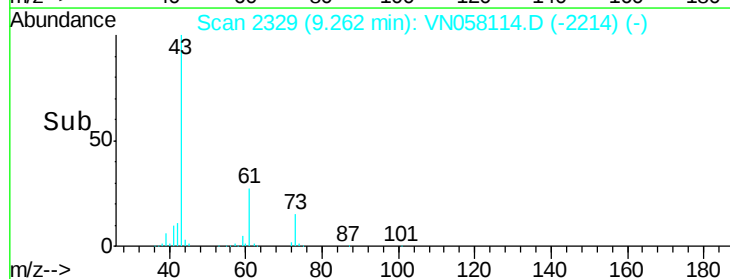
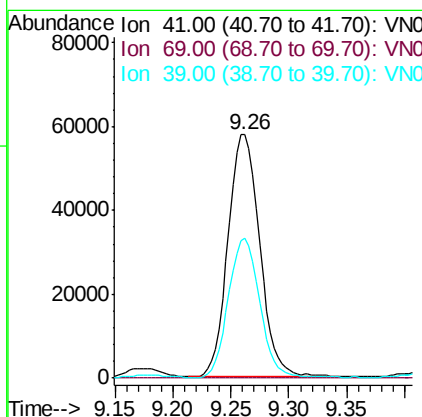
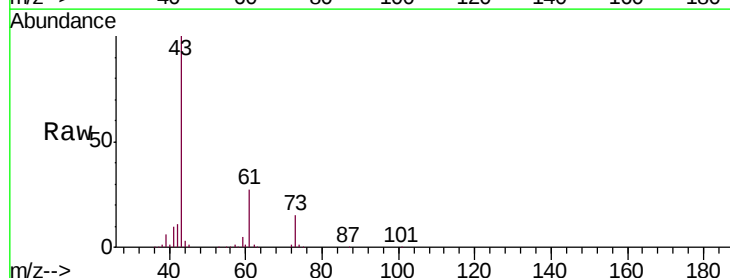
Instrument :
 MSVOA_N
 ClientSampleId :
 T3-1-(0)

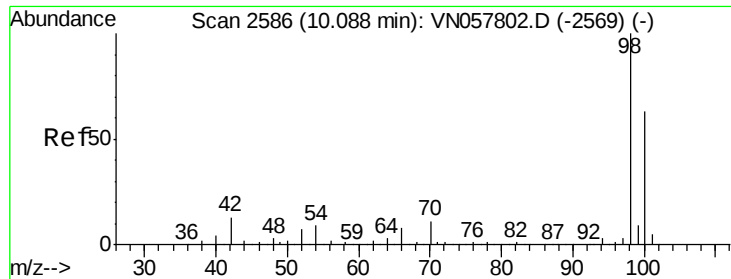
Tgt Ion: 63 Resp: 1368
 Ion Ratio Lower Upper
 63 100
 65 0.0 24.8 37.2#



#48
 Methyl methacrylate
 Concen: 20.914 ug/l
 RT: 9.26 min Scan# 2329
 Delta R.T. 0.07 min
 Lab File: VN058114.D
 Acq: 16 Sep 2019 13:34

Tgt Ion: 41 Resp: 110064
 Ion Ratio Lower Upper
 41 100
 69 0.0 62.7 94.1#
 39 56.7 52.7 79.1

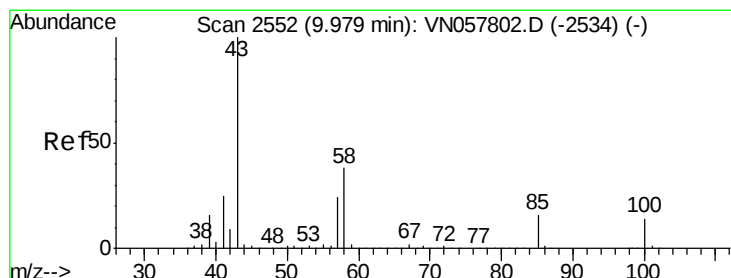
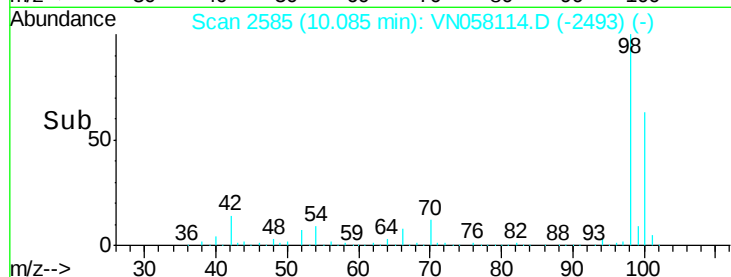
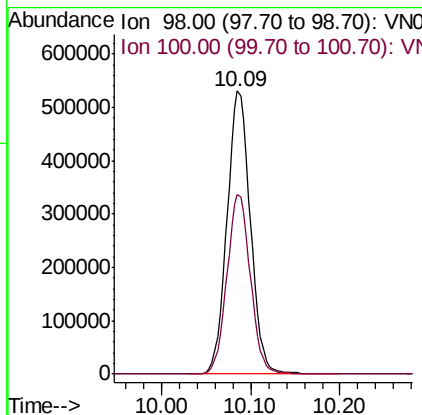
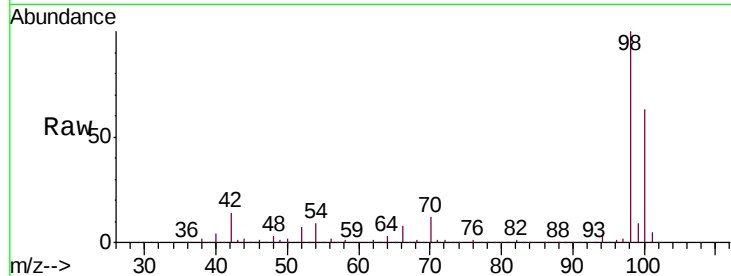




#50
Toluene-d8
Concen: 52.214 ug/l
RT: 10.09 min Scan# 2585
Delta R.T. -0.00 min
Lab File: VN058114.D
Acq: 16 Sep 2019 13:34

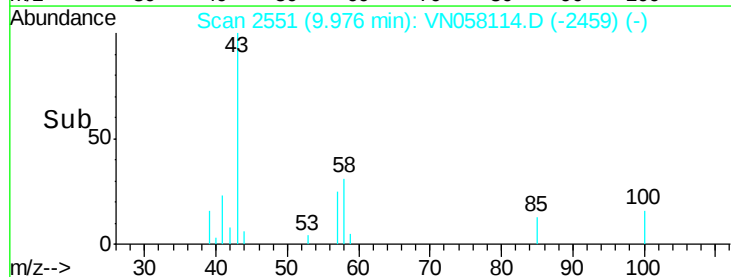
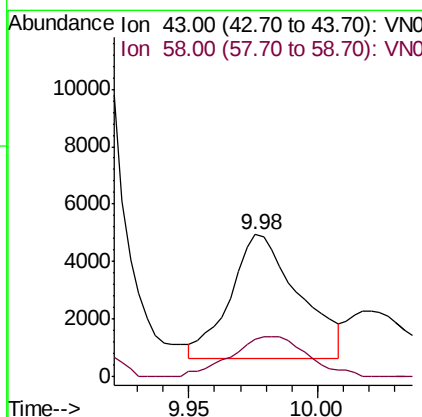
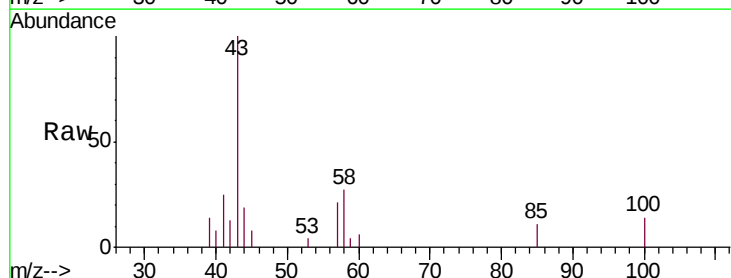
Instrument :
MSVOA_N
ClientSampled :
T3-1-(0)

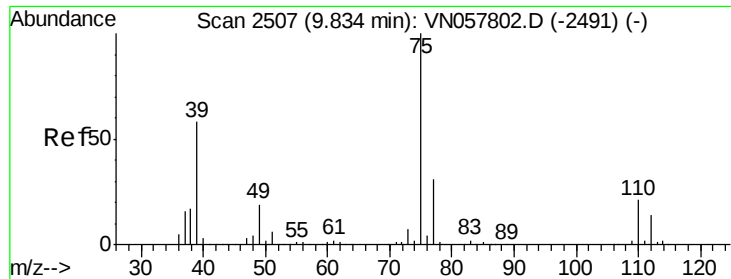
Tgt Ion: 98 Resp: 963331
Ion Ratio Lower Upper
98 100
100 63.6 50.3 75.5



#51
4-Methyl-2-Pentanone
Concen: 1.302 ug/l
RT: 9.98 min Scan# 2551
Delta R.T. -0.00 min
Lab File: VN058114.D
Acq: 16 Sep 2019 13:34

Tgt Ion: 43 Resp: 7991
Ion Ratio Lower Upper
43 100
58 36.4 29.8 44.6





#54

cis-1,3-Dichloropropene

Concen: 5.132 ug/l

RT: 9.90 min Scan# 2528

Delta R.T. 0.07 min

Lab File: VN058114.D

Acq: 16 Sep 2019 13:34

Instrument :

MSVOA_N

ClientSampleId :

T3-1-(0)

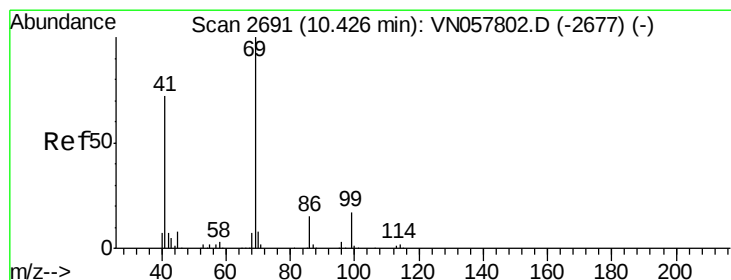
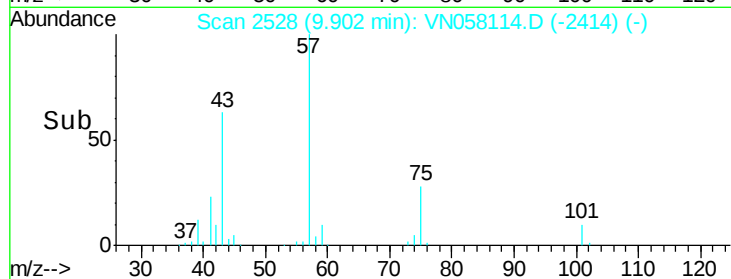
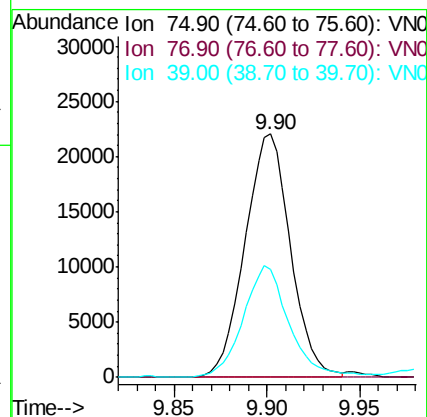
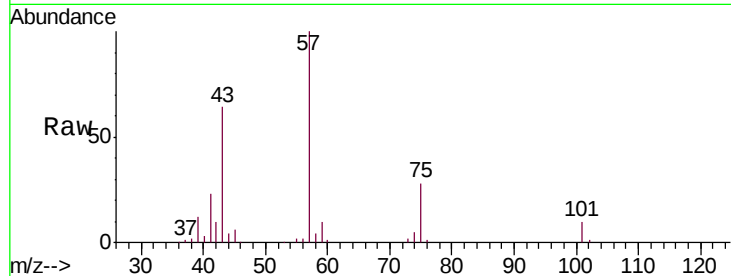
Tgt Ion: 75 Resp: 37664

Ion Ratio Lower Upper

75 100

77 0.0 24.8 37.2#

39 43.1 46.2 69.4#



#56

Ethyl methacrylate

Concen: 0.253 ug/l

RT: 10.54 min Scan# 2727

Delta R.T. 0.12 min

Lab File: VN058114.D

Acq: 16 Sep 2019 13:34

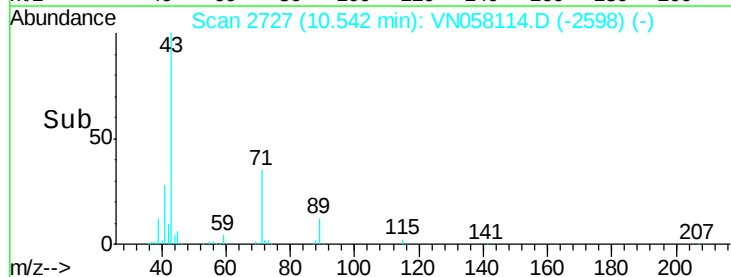
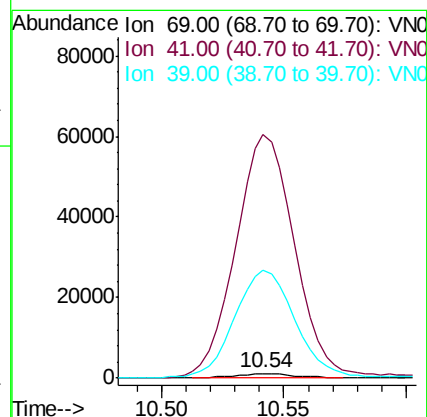
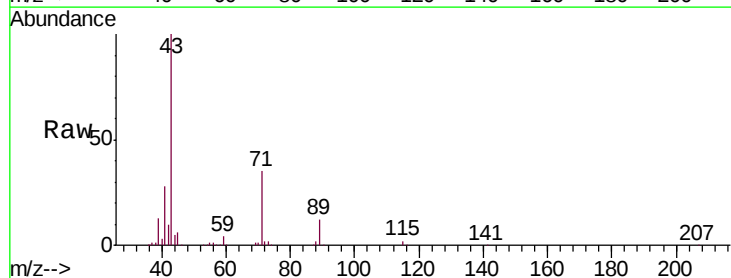
Tgt Ion: 69 Resp: 1827

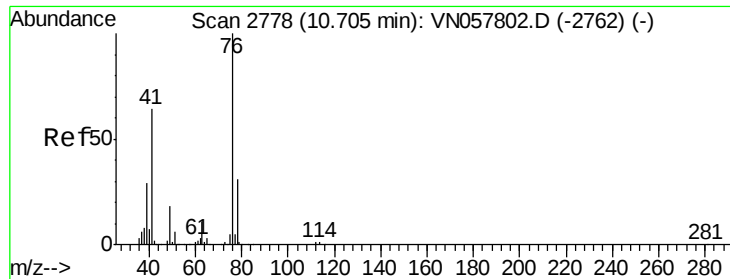
Ion Ratio Lower Upper

69 100

41 5616.7 56.7 85.1#

39 2533.2 36.3 54.5#

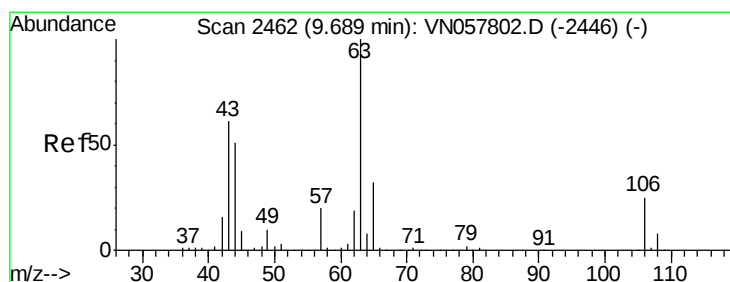
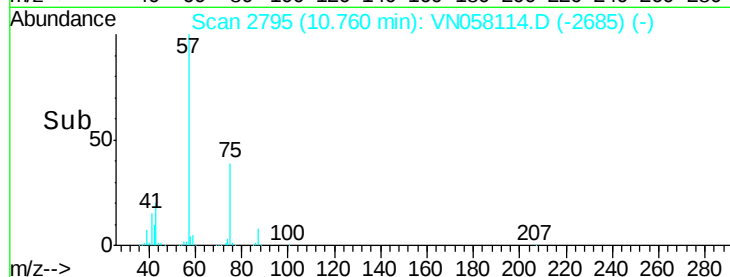
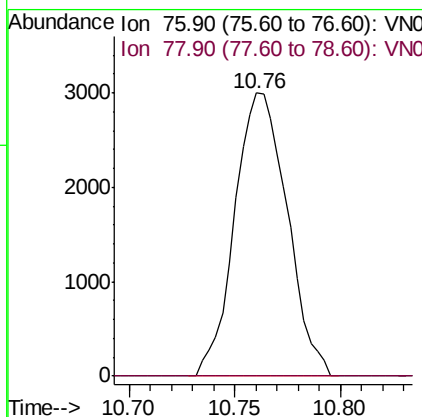
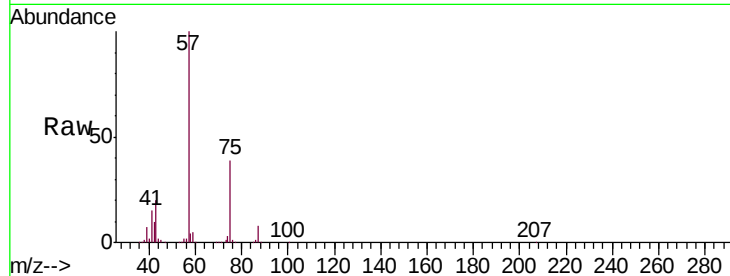




#57
 1,3-Dichloropropane
 Concen: 0.628 ug/l
 RT: 10.76 min Scan# 2795
 Delta R.T. 0.05 min
 Lab File: VN058114.D
 Acq: 16 Sep 2019 13:34

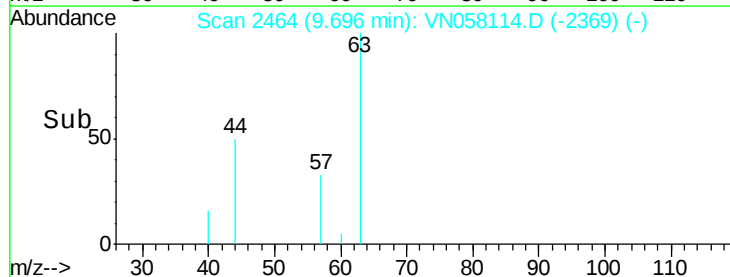
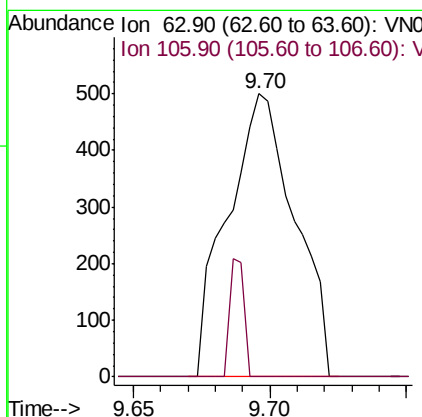
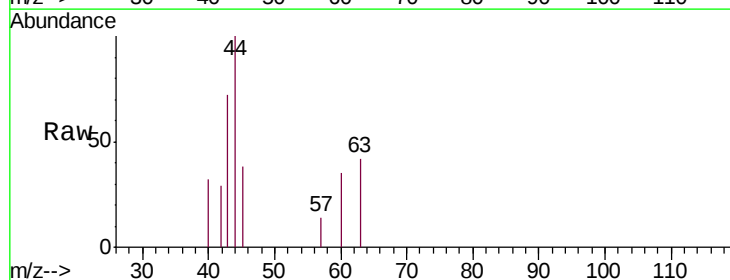
Instrument :
 MSVOA_N
 ClientSampleId :
 T3-1-(0)

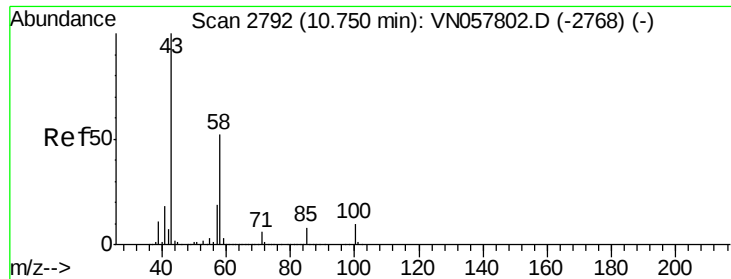
Tgt Ion: 76 Resp: 5188
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.4 38.2#



#58
 2-Chloroethyl Vinyl ether
 Concen: 0.251 ug/l
 RT: 9.70 min Scan# 2464
 Delta R.T. 0.01 min
 Lab File: VN058114.D
 Acq: 16 Sep 2019 13:34

Tgt Ion: 63 Resp: 855
 Ion Ratio Lower Upper
 63 100
 106 9.2 20.0 30.0#

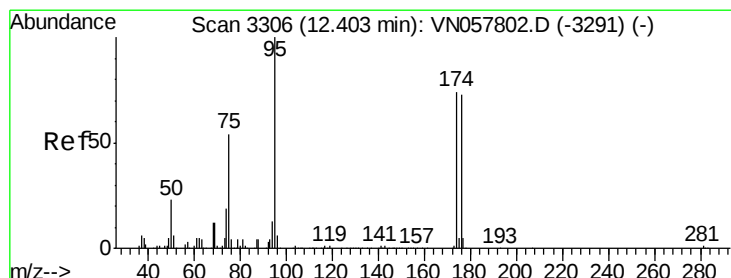
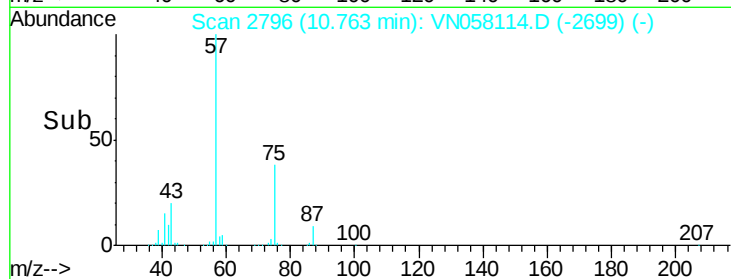
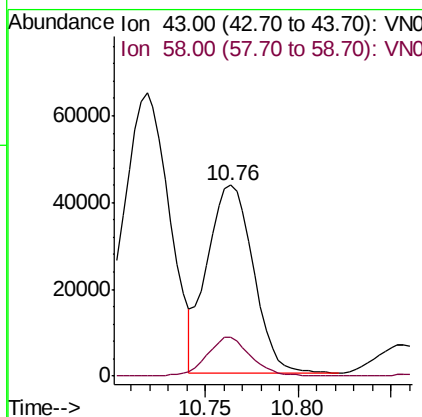
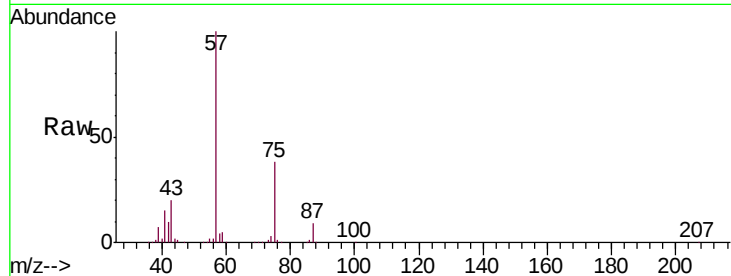




#59
2-Hexanone
Concen: 16.245 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN058114.D
Acq: 16 Sep 2019 13:34

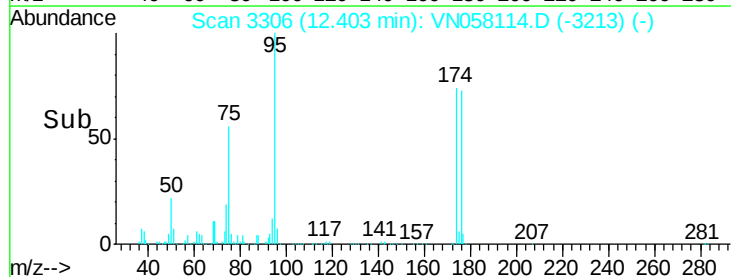
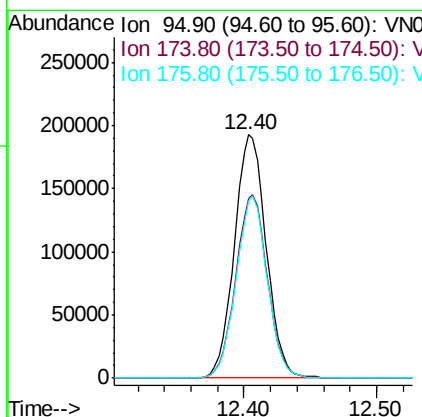
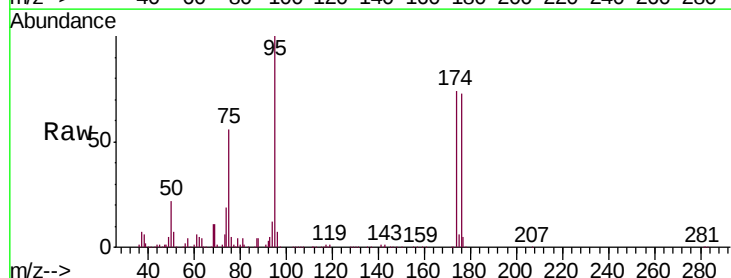
Instrument :
MSVOA_N
ClientSampled :
T3-1-(0)

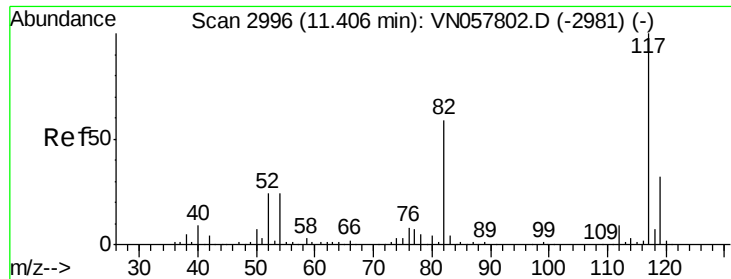
Tgt Ion: 43 Resp: 74755
Ion Ratio Lower Upper
43 100
58 19.7 25.6 76.8#



#62
4-Bromofluorobenzene
Concen: 45.658 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN058114.D
Acq: 16 Sep 2019 13:34

Tgt Ion: 95 Resp: 321023
Ion Ratio Lower Upper
95 100
174 75.3 0.0 150.2
176 73.1 0.0 146.0

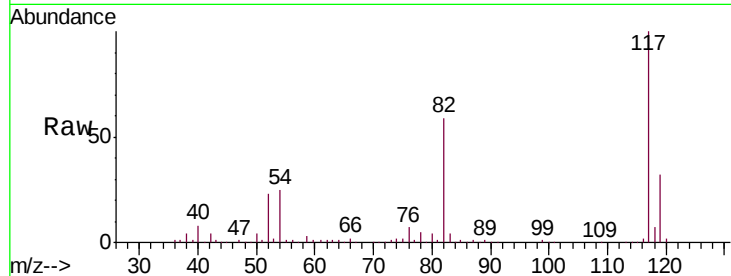




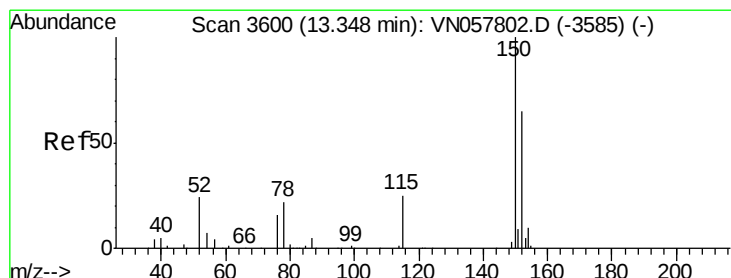
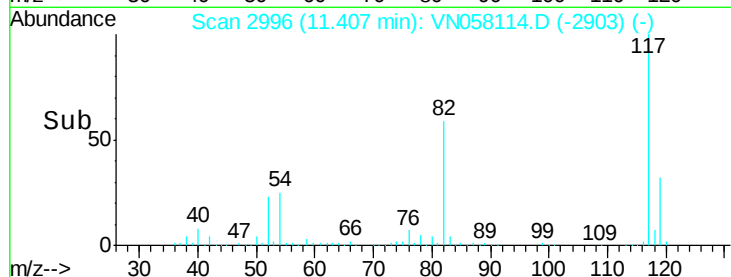
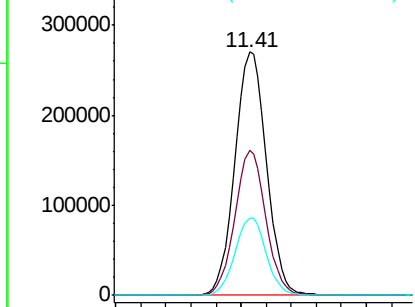
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN058114.D
Acq: 16 Sep 2019 13:34

Instrument :
MSVOA_N
ClientSampleId :
T3-1-(0)

Tgt Ion:117 Resp: 473386
Ion Ratio Lower Upper
117 100
82 59.5 47.2 70.8
119 31.8 25.3 37.9

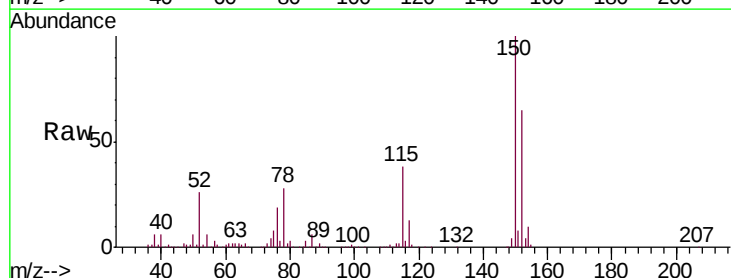


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

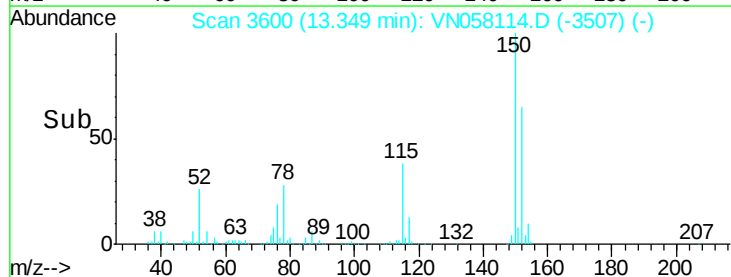
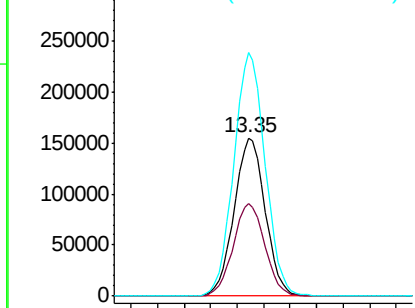


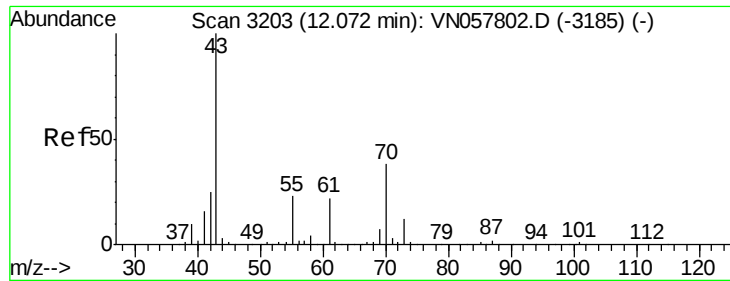
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3600
Delta R.T. 0.00 min
Lab File: VN058114.D
Acq: 16 Sep 2019 13:34

Tgt Ion:152 Resp: 251958
Ion Ratio Lower Upper
152 100
115 59.4 30.3 91.0
150 155.4 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: 0.520 ug/l

RT: 12.04 min Scan# 3192

Delta R.T. -0.04 min

Lab File: VN058114.D

Acq: 16 Sep 2019 13:34

Instrument :

MSVOA_N

ClientSampled :

T3-1-(0)

Tgt Ion: 43 Resp: 4424

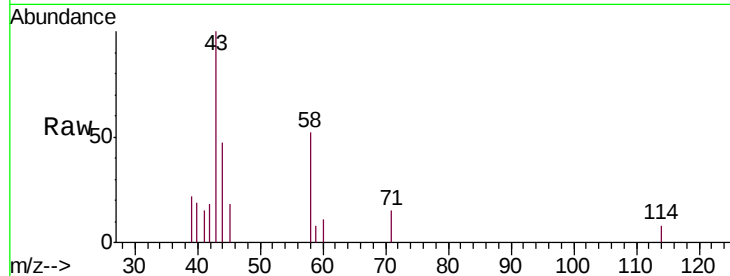
Ion Ratio Lower Upper

43 100

70 0.0 30.6 45.8#

55 2.9 18.6 27.8#

61 0.0 17.4 26.2#

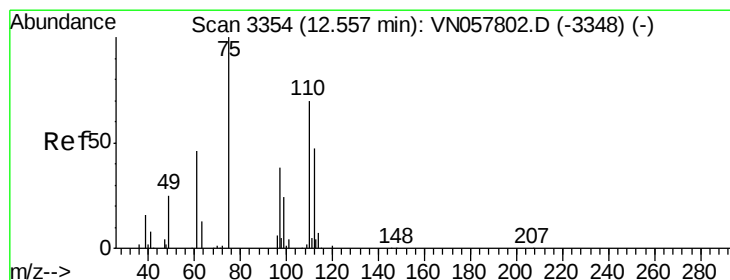
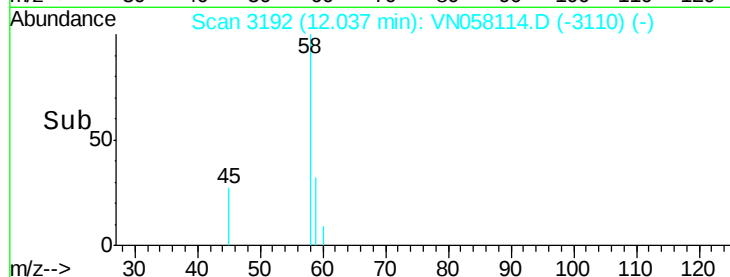
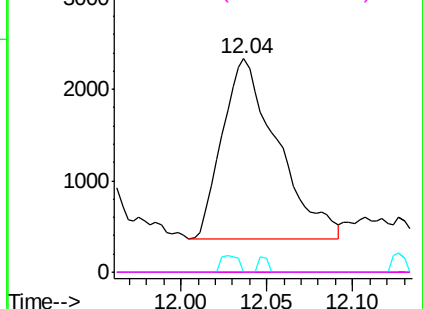


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 30.896 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN058114.D

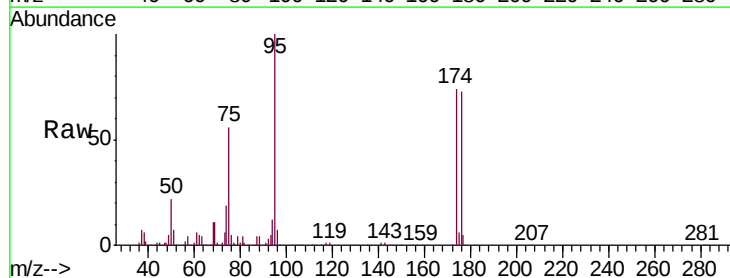
Acq: 16 Sep 2019 13:34

Tgt Ion: 75 Resp: 176097

Ion Ratio Lower Upper

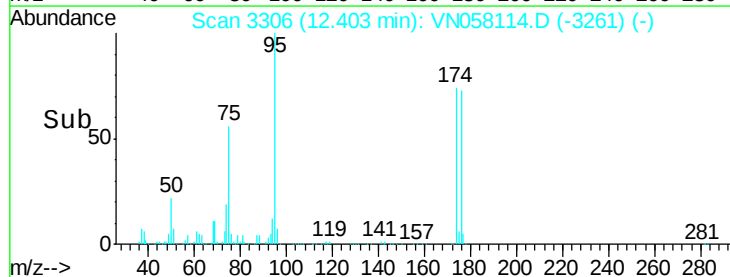
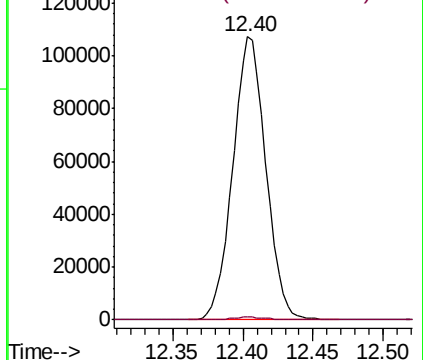
75 100

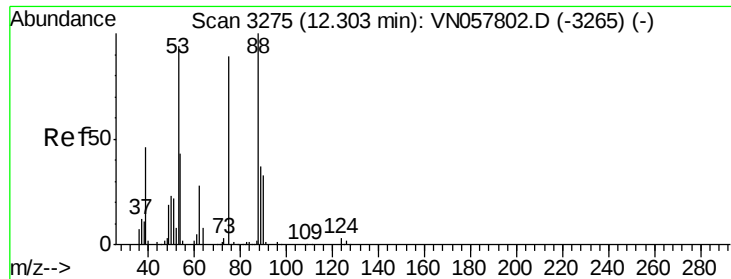
77 1.0 0.0 0.0#



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: 108.723 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN058114.D

Acq: 16 Sep 2019 13:34

Instrument :

MSVOA_N

ClientSampleId :

T3-1-(0)

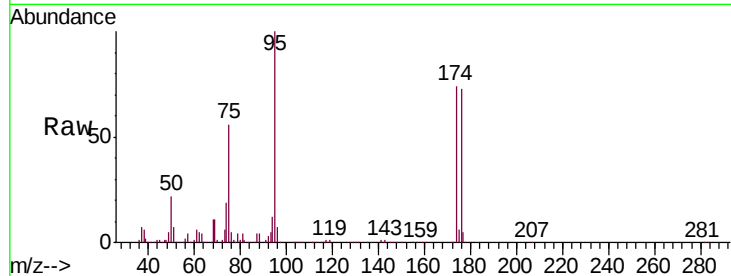
Tgt Ion: 75 Resp: 176097

Ion Ratio Lower Upper

75 100

53 0.0 88.4 132.6#

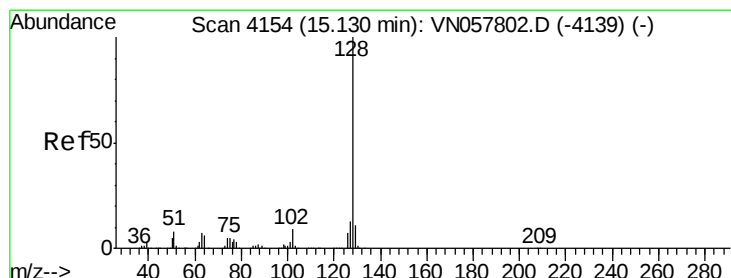
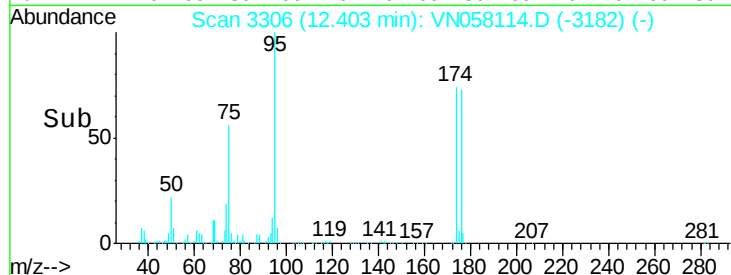
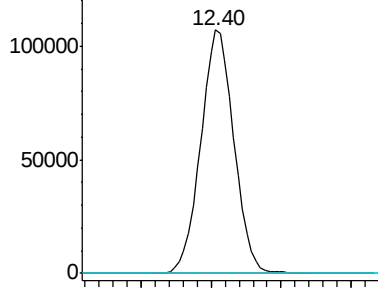
89 0.0 35.3 52.9#



Abundance Ion 74.90 (74.60 to 75.60): VN058114.D (-3306) (-)

Ion 53.00 (52.70 to 53.70): VN058114.D (-3306) (-)

Ion 88.90 (88.60 to 89.60): VN058114.D (-3306) (-)



#95

Naphthalene

Concen: Below Cal

RT: 15.14 min Scan# 4156

Delta R.T. 0.01 min

Lab File: VN058114.D

Acq: 16 Sep 2019 13:34

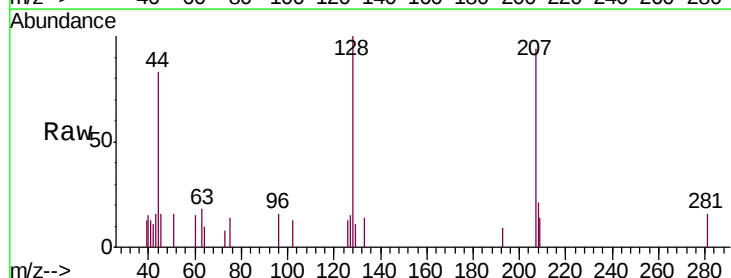
Tgt Ion: 128 Resp: 3220

Ion Ratio Lower Upper

128 100

127 8.0 10.3 15.5#

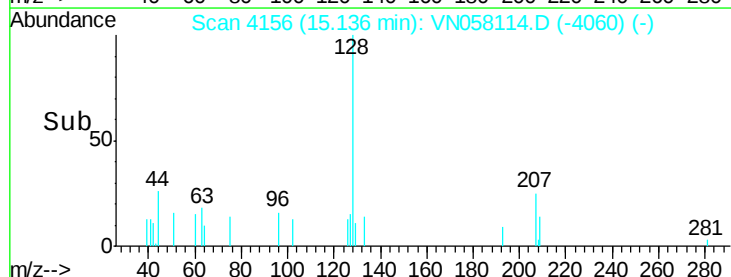
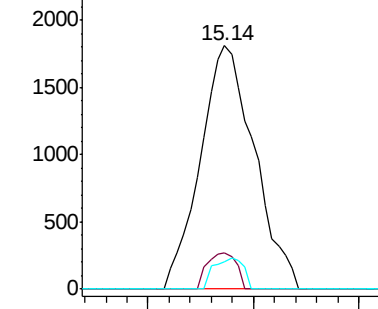
129 7.0 8.6 12.8#

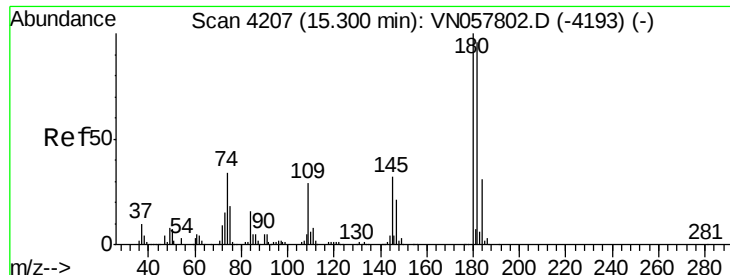


Abundance Ion 128.00 (127.70 to 128.70): VN058114.D (-4156) (-)

Ion 127.00 (126.70 to 127.70): VN058114.D (-4156) (-)

Ion 129.00 (128.70 to 129.70): VN058114.D (-4156) (-)

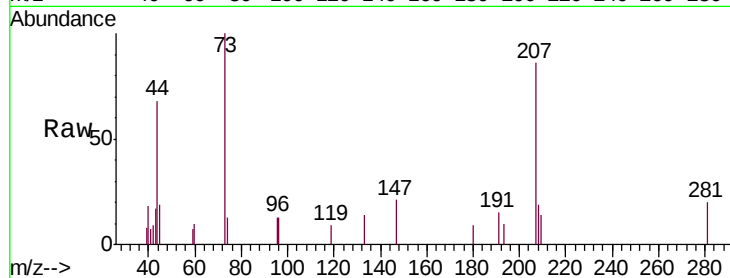




#96
 1,2,3-Trichlorobenzene
 Concen: 1.023 ug/l
 RT: 15.29 min Scan# 4204
 Delta R.T. -0.01 min
 Lab File: VN058114.D
 Acq: 16 Sep 2019 13:34

Instrument :
 MSVOA_N
 ClientSampleId :
 T3-1-(0)

Tgt Ion	Ratio	Lower	Upper
180	100		
182	0.0	48.3	144.8#
145	0.0	16.3	48.8#



Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.90 (144.60 to 145.60): V

