

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN091419\
 Data File : VN058047.D
 Acq On : 14 Sep 2019 2:43
 Operator : JC/SP
 Sample : K4694-37
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 47 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 T2-4-(1.5)

Quant Time: Sep 14 03:43:26 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	302135	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	526848	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	481580	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	246895	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	330816	54.06	ug/l	0.00
Spiked Amount 50.000			Recovery =	108.12%		
35) Dibromofluoromethane	7.58	113	229420	47.18	ug/l	0.00
Spiked Amount 50.000			Recovery =	94.36%		
50) Toluene-d8	10.09	98	857719	45.43	ug/l	0.00
Spiked Amount 50.000			Recovery =	90.86%		
62) 4-Bromofluorobenzene	12.40	95	297490	41.35	ug/l	0.00
Spiked Amount 50.000			Recovery =	82.70%		

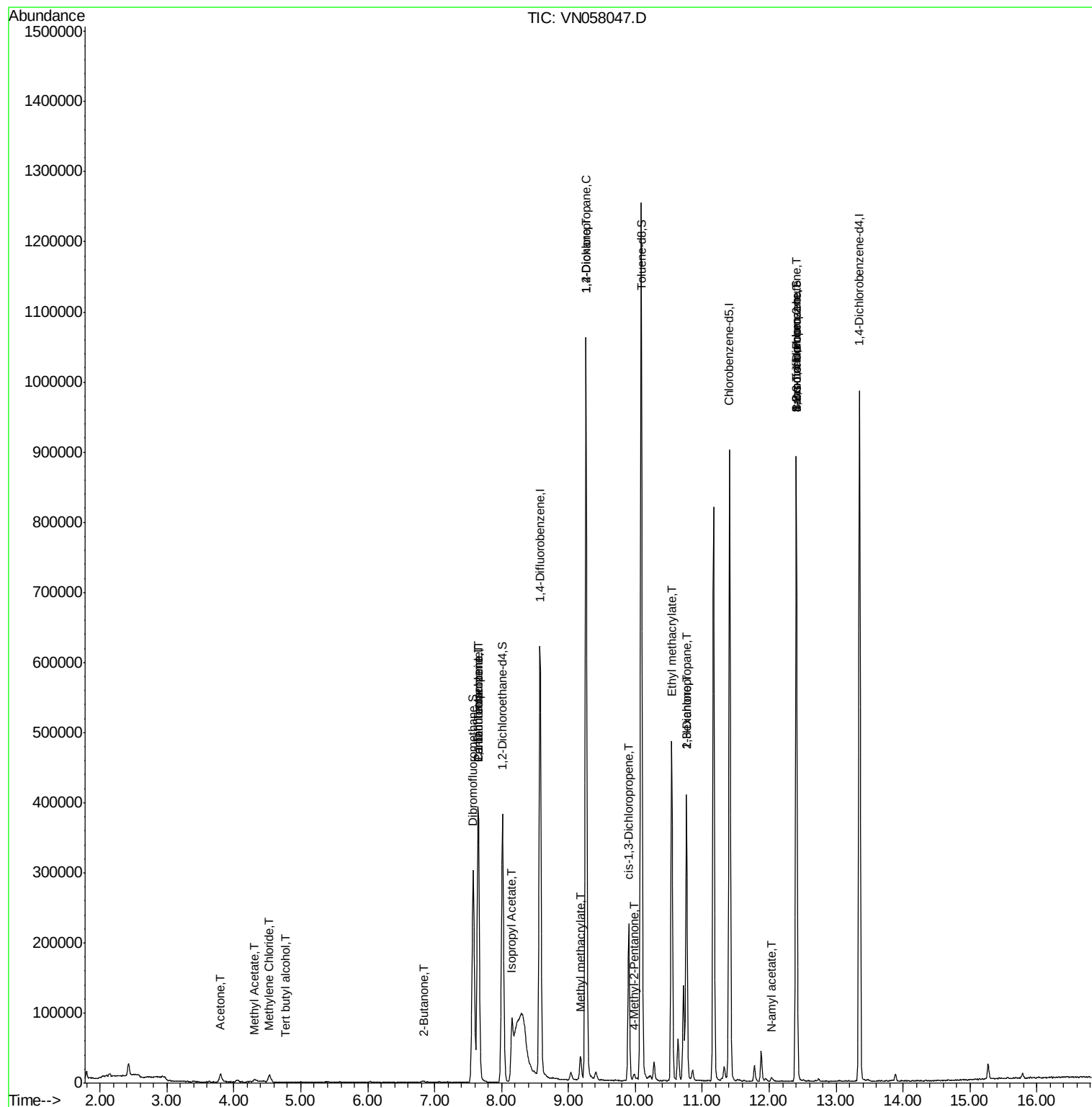
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.55	94	176	Below Cal	#	2
11) Tert butyl alcohol	4.77	59	192	0.259	ug/l #	72
16) Acetone	3.80	43	20634	10.286	ug/l	92
18) Methyl Acetate	4.31	43	3767	0.704	ug/l	92
20) Methylene Chloride	4.53	84	7034	0.626	ug/l	98
25) 2-Butanone	6.84	43	2406	0.829	ug/l	98
31) Cyclohexane	7.65	56	8183	Below Cal	#	37
36) 1,1-Dichloropropene	7.65	75	26412	4.323	ug/l #	50
38) Carbon Tetrachloride	7.65	117	30871	5.534	ug/l #	15
43) Isopropyl Acetate	8.15	43	112778	10.623	ug/l #	83
45) 1,2-Dichloropropane	9.26	63	1141	0.213	ug/l #	44
48) Methyl methacrylate	9.18	41	5417	1.006	ug/l #	13
49) 1,4-Dioxane	9.25	88	29	0.318	ug/l #	1
51) 4-Methyl-2-Pentanone	9.98	43	5542	0.882	ug/l	97
54) cis-1,3-Dichloropropene	9.90	75	36678	4.884	ug/l #	68
56) Ethyl methacrylate	10.55	69	1861	0.252	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	4479	0.530	ug/l #	43
59) 2-Hexanone	10.76	43	63034	13.386	ug/l #	55
71) Bromoform	12.40	173	2419	0.887	ug/l #	1
74) N-amyl acetate	12.04	43	4566	0.548	ug/l #	49
76) 1,2,3-Trichloropropane	12.40	75	163608	29.293	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	163608	103.083	ug/l #	6
95) Naphthalene	15.13	128	521	Below Cal	#	69

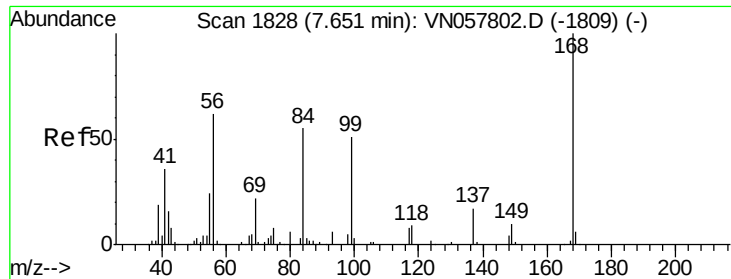
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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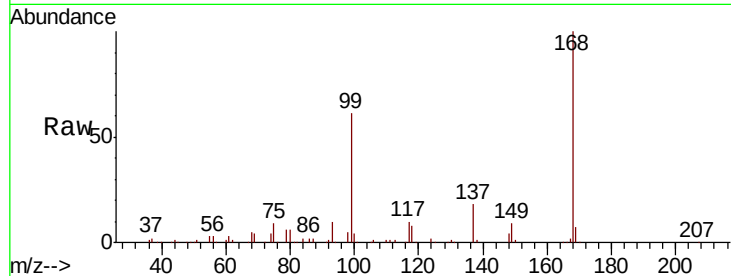




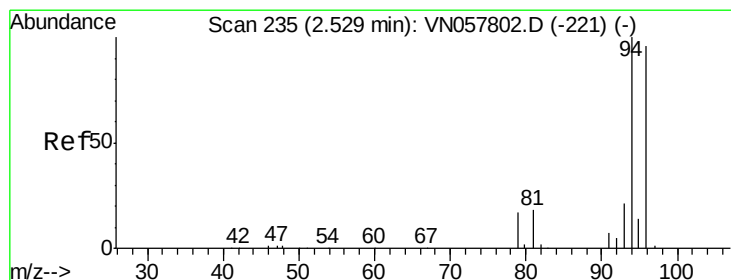
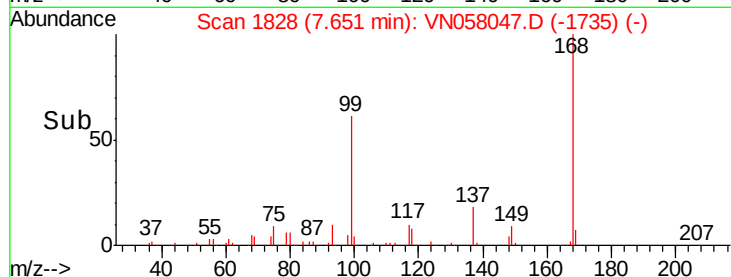
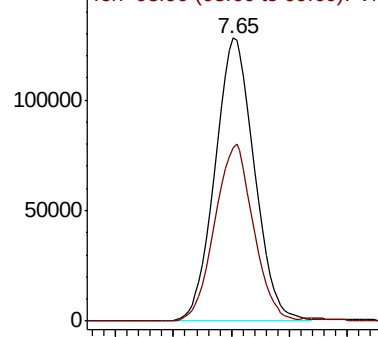
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.65 min Scan# 1828
Delta R.T. 0.00 min
Lab File: VN058047.D
Acq: 14 Sep 2019 2:43

Instrument :
MSVOA_N
ClientSampleId :
T2-4-(1.5)

Tgt Ion:168 Resp: 302135
Ion Ratio Lower Upper
168 100
99 61.4 48.0 72.0

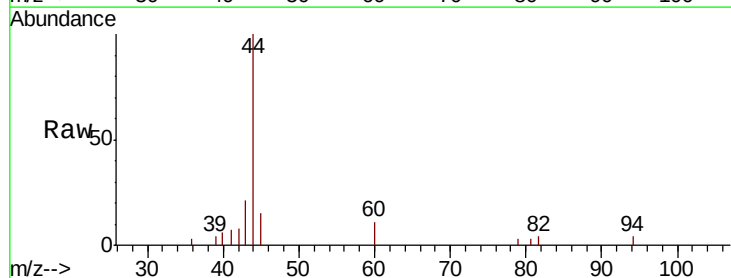


Abundance Ion 167.90 (167.60 to 168.60): V
Ion 98.90 (98.60 to 99.60): VN0

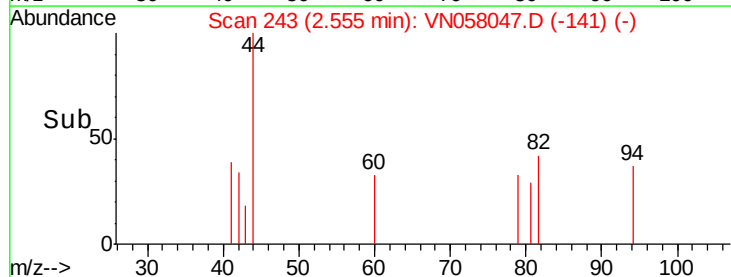
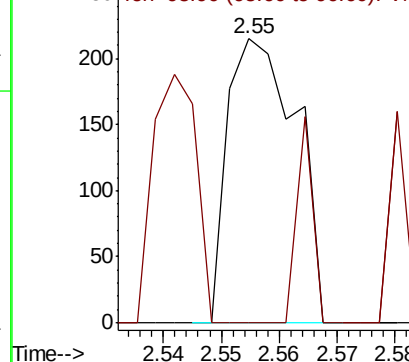


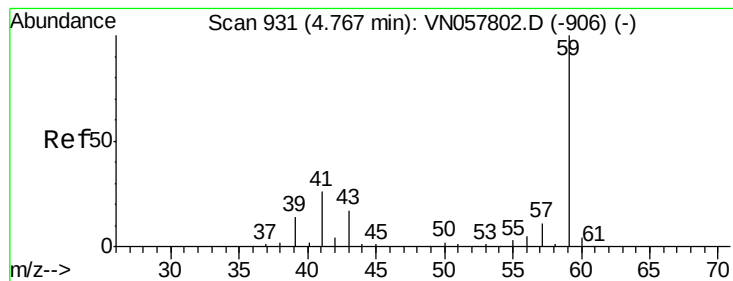
#5
Bromomethane
Concen: Below Cal
RT: 2.55 min Scan# 243
Delta R.T. 0.03 min
Lab File: VN058047.D
Acq: 14 Sep 2019 2:43

Tgt Ion: 94 Resp: 176
Ion Ratio Lower Upper
94 100
96 0.0 77.0 115.4#



Abundance Ion 93.90 (93.60 to 94.60): VN0
Ion 95.90 (95.60 to 96.60): VN0





#11

Tert butyl alcohol

Concen: 0.259 ug/l

RT: 4.77 min Scan# 931

Delta R.T. 0.00 min

Lab File: VN058047.D

Acq: 14 Sep 2019 2:43

Instrument :

MSVOA_N

ClientSampled :

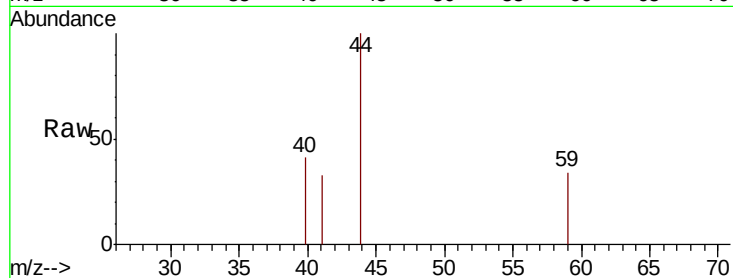
T2-4-(1.5)

Tgt Ion: 59 Resp: 192

Ion Ratio Lower Upper

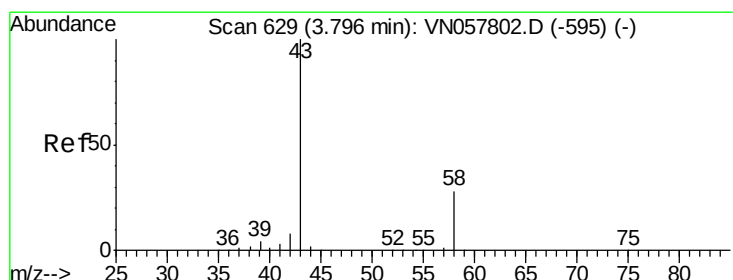
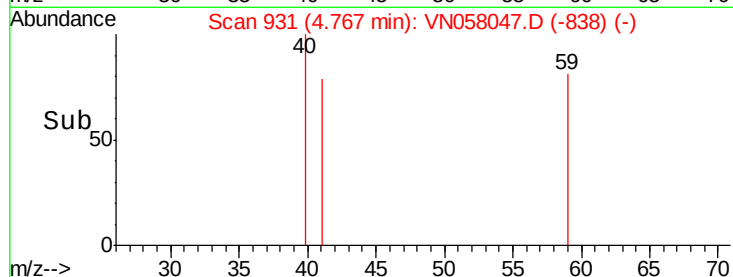
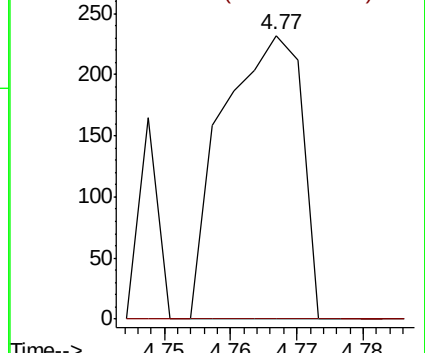
59 100

57 0.0 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0



#16

Acetone

Concen: 10.286 ug/l

RT: 3.80 min Scan# 631

Delta R.T. 0.01 min

Lab File: VN058047.D

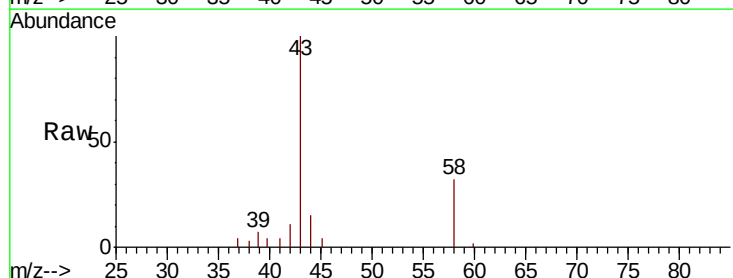
Acq: 14 Sep 2019 2:43

Tgt Ion: 43 Resp: 20634

Ion Ratio Lower Upper

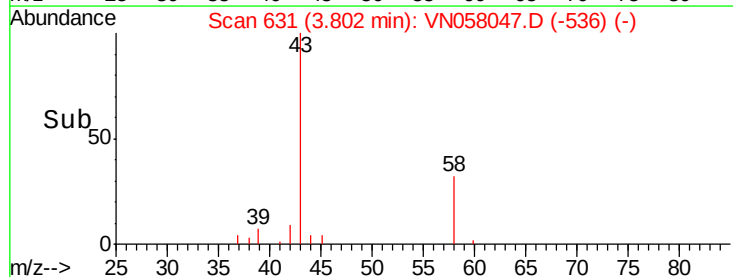
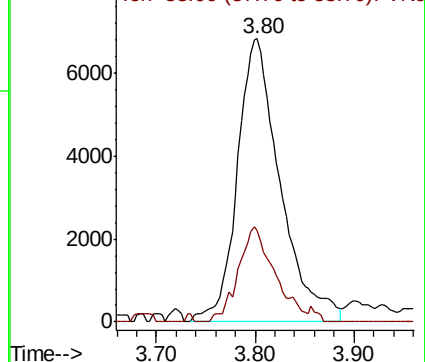
43 100

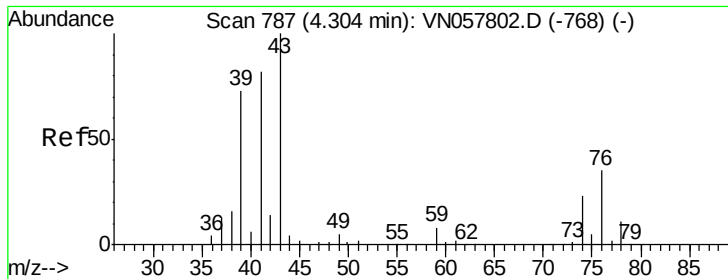
58 32.1 22.2 33.2



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

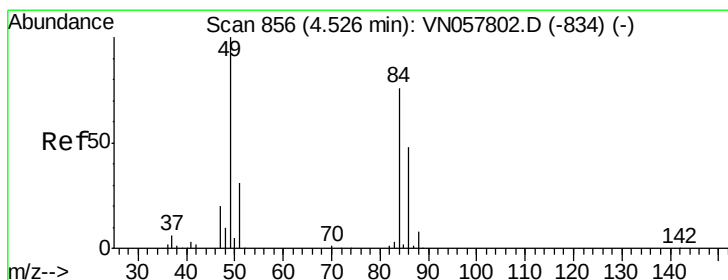
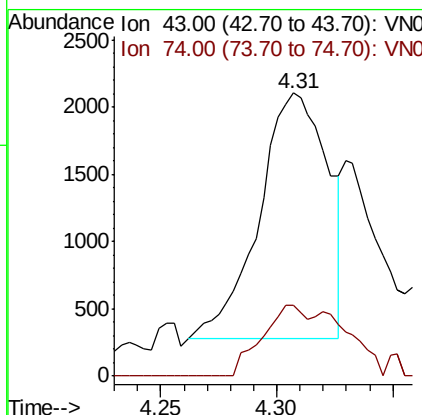
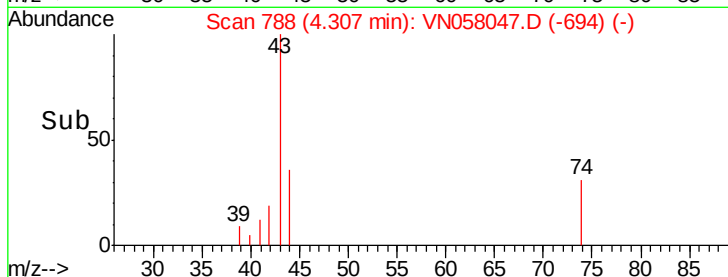
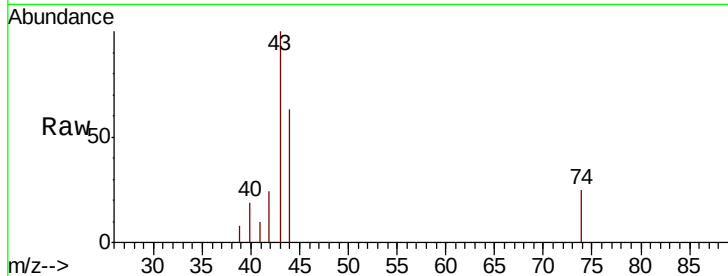




#18
Methyl Acetate
Concen: 0.704 ug/l
RT: 4.31 min Scan# 788
Delta R.T. 0.00 min
Lab File: VN058047.D
Acq: 14 Sep 2019 2:43

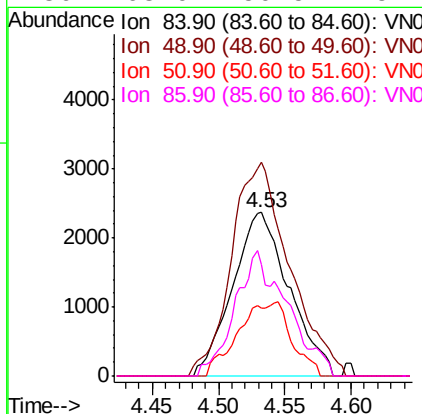
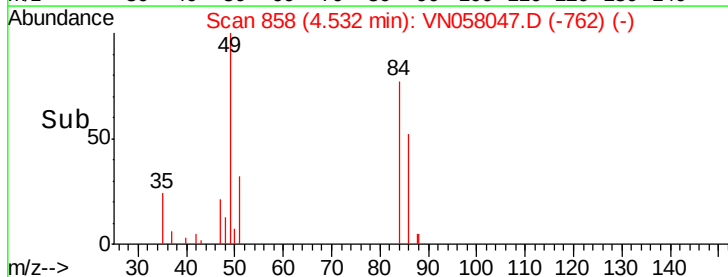
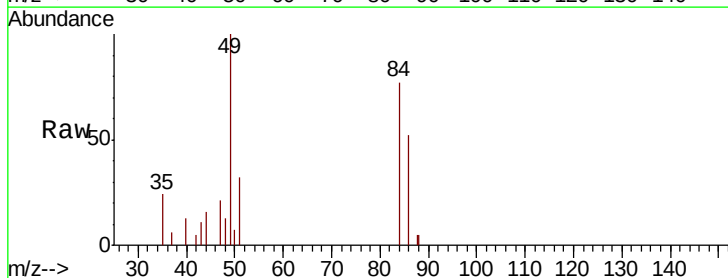
Instrument :
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T2-4-(1.5)

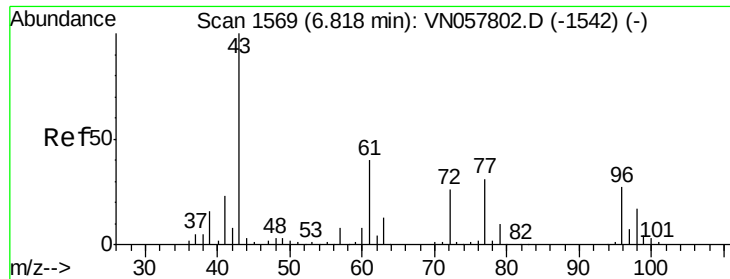
Tgt Ion: 43 Resp: 3767
Ion Ratio Lower Upper
43 100
74 18.7 17.9 26.9



#20
Methylene Chloride
Concen: 0.626 ug/l
RT: 4.53 min Scan# 858
Delta R.T. 0.01 min
Lab File: VN058047.D
Acq: 14 Sep 2019 2:43

Tgt Ion: 84 Resp: 7034
Ion Ratio Lower Upper
84 100
49 130.5 104.8 157.2
51 41.8 33.0 49.4
86 68.0 50.5 75.7

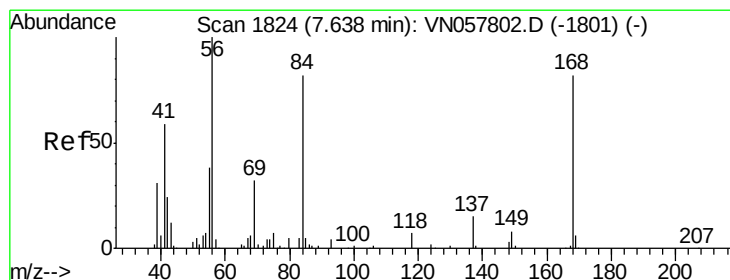
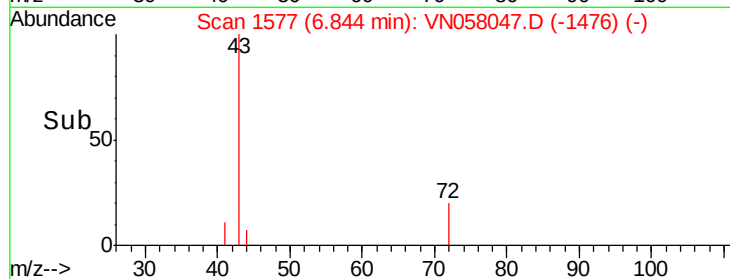
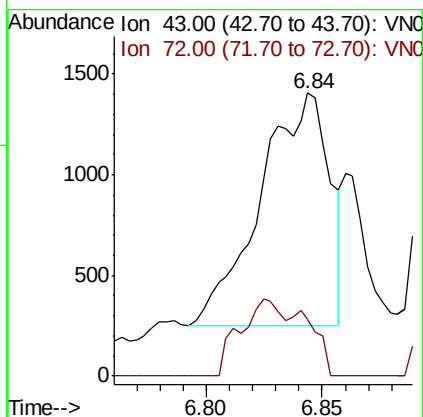
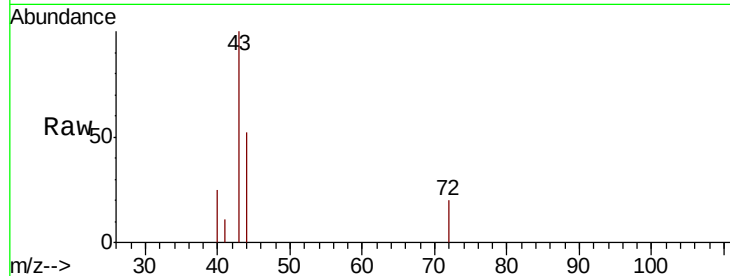




#25
2-Butanone
Concen: 0.829 ug/l
RT: 6.84 min Scan# 1577
Delta R.T. 0.03 min
Lab File: VN058047.D
Acq: 14 Sep 2019 2:43

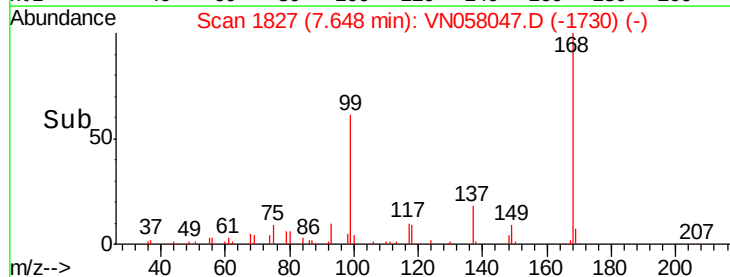
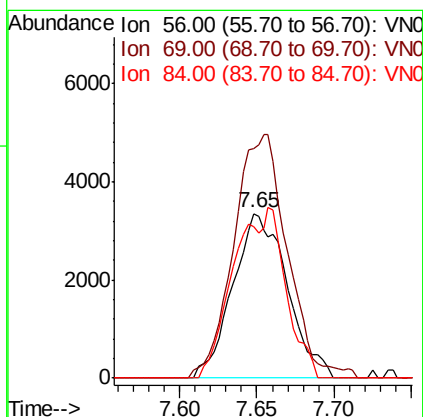
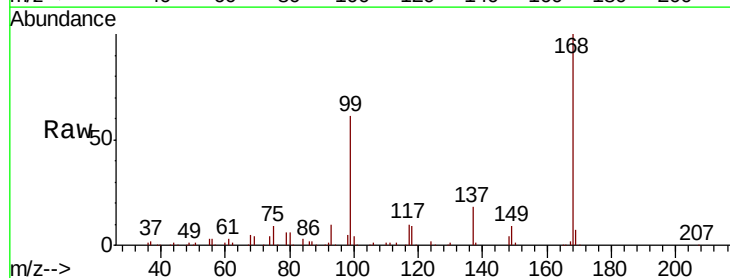
Instrument :
MSVOA_N
ClientSampled :
T2-4-(1.5)

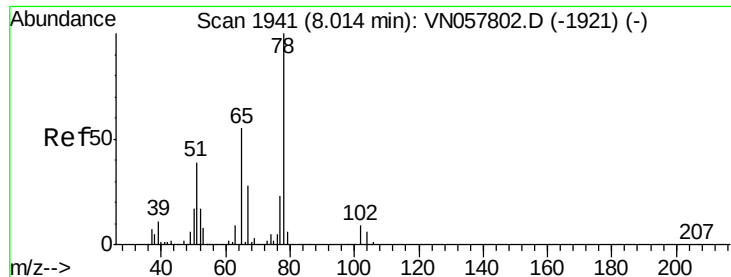
Tgt Ion: 43 Resp: 2406
Ion Ratio Lower Upper
43 100
72 24.5 20.6 30.8



#31
Cyclohexane
Concen: Below Cal
RT: 7.65 min Scan# 1827
Delta R.T. 0.01 min
Lab File: VN058047.D
Acq: 14 Sep 2019 2:43

Tgt Ion: 56 Resp: 8183
Ion Ratio Lower Upper
56 100
69 140.1 25.9 38.9#
84 92.3 65.6 98.4

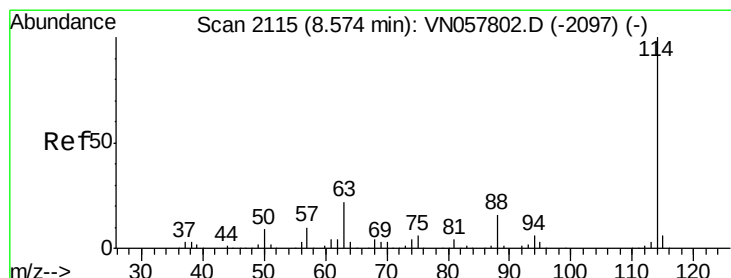
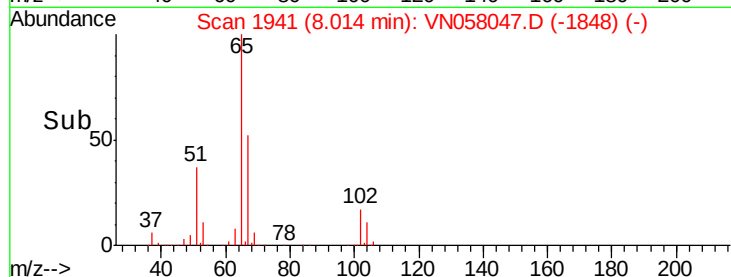
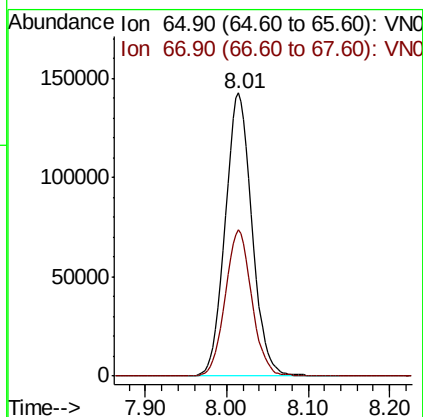
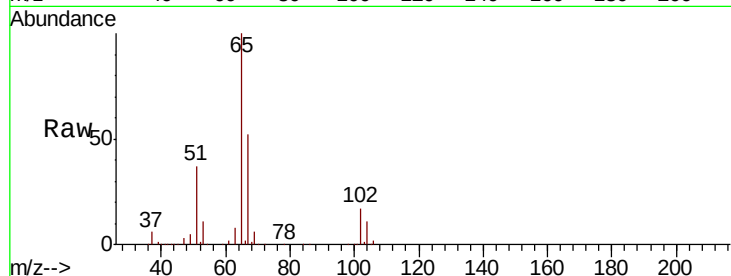




#33
 1,2-Dichloroethane-d4
 Concen: 54.059 ug/l
 RT: 8.01 min Scan# 1941
 Delta R.T. 0.00 min
 Lab File: VN058047.D
 Acq: 14 Sep 2019 2:43

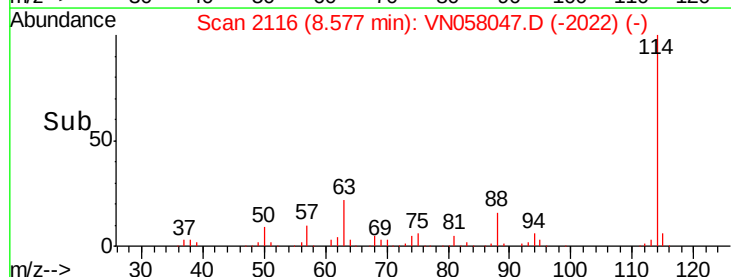
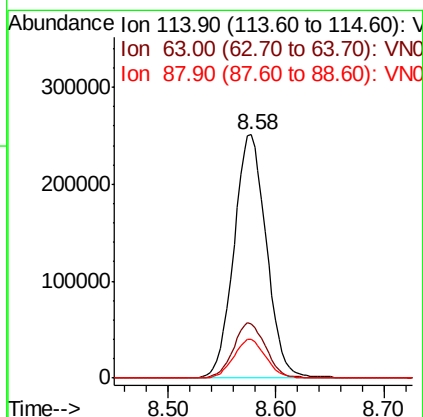
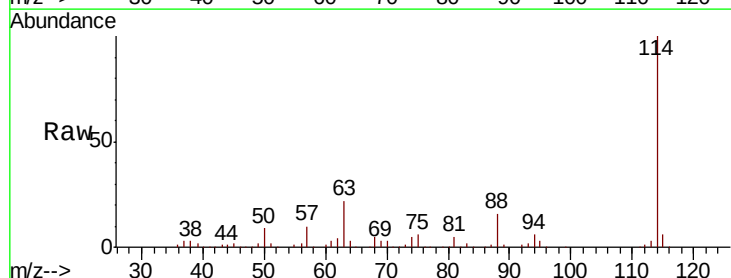
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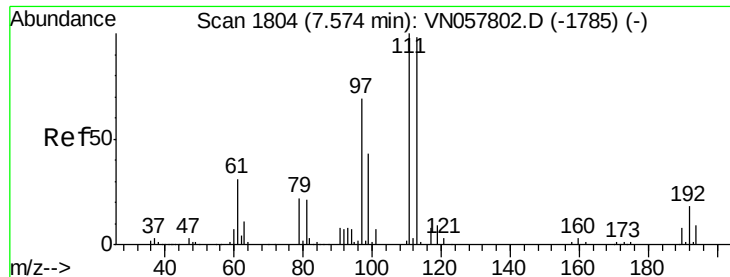
Tgt Ion: 65 Resp: 330816
 Ion Ratio Lower Upper
 65 100
 67 51.1 0.0 104.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2116
 Delta R.T. 0.00 min
 Lab File: VN058047.D
 Acq: 14 Sep 2019 2:43

Tgt Ion: 114 Resp: 526848
 Ion Ratio Lower Upper
 114 100
 63 22.3 0.0 44.0
 88 16.0 0.0 31.4

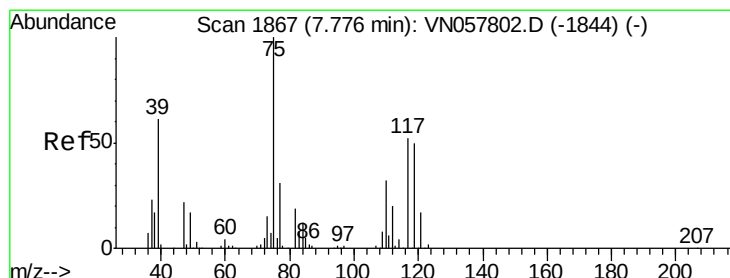
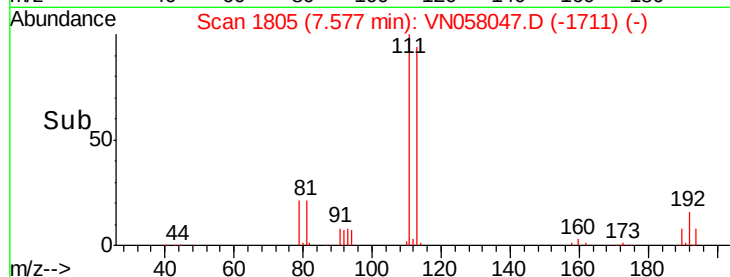
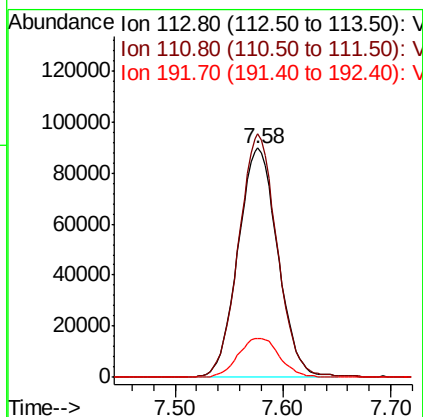
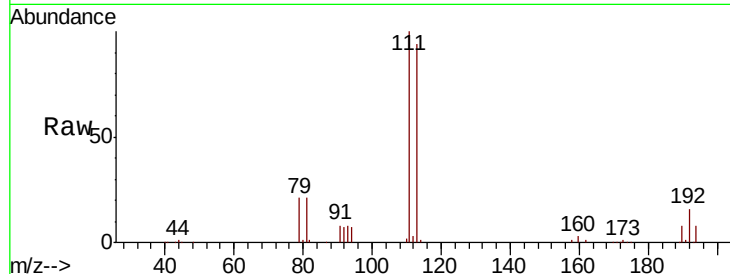




#35
 Dibromofluoromethane
 Concen: 47.181 ug/l
 RT: 7.58 min Scan# 1805
 Delta R.T. 0.00 min
 Lab File: VN058047.D
 Acq: 14 Sep 2019 2:43

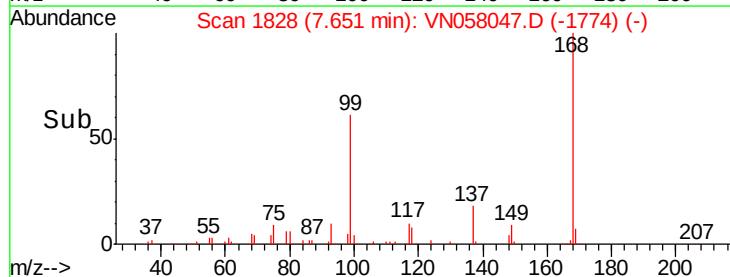
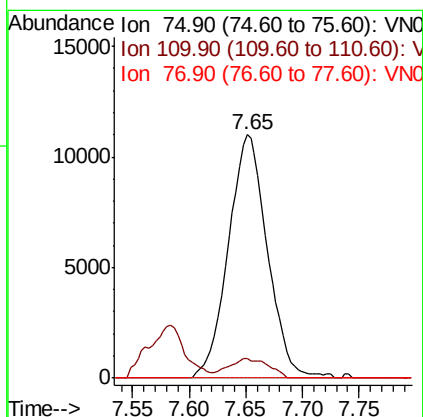
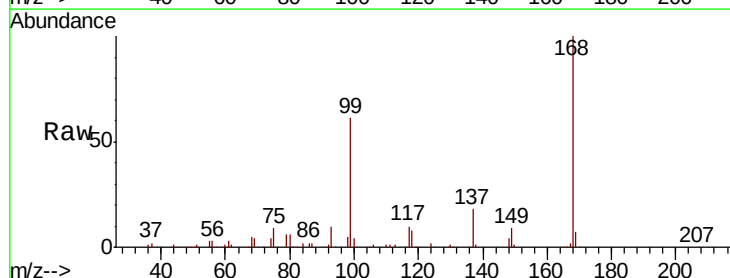
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 ClientSampled :
 T2-4-(1.5)

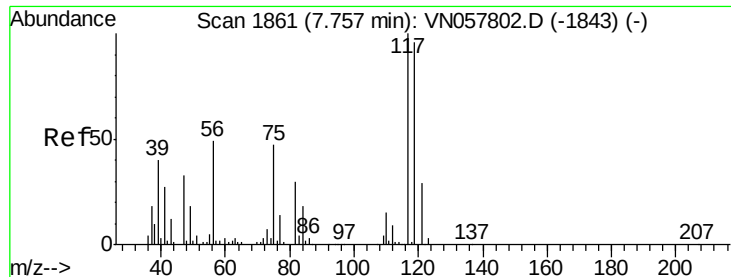
Tgt Ion: 113 Resp: 229420
 Ion Ratio Lower Upper
 113 100
 111 103.2 81.3 121.9
 192 17.7 14.6 22.0



#36
 1,1-Dichloropropene
 Concen: 4.323 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.13 min
 Lab File: VN058047.D
 Acq: 14 Sep 2019 2:43

Tgt Ion: 75 Resp: 26412
 Ion Ratio Lower Upper
 75 100
 110 8.3 16.3 48.9#
 77 0.0 25.0 37.4#





#38

Carbon Tetrachloride

Concen: 5.534 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.11 min

Lab File: VN058047.D

Acq: 14 Sep 2019 2:43

Instrument :

MSVOA_N

ClientSampled :

T2-4-(1.5)

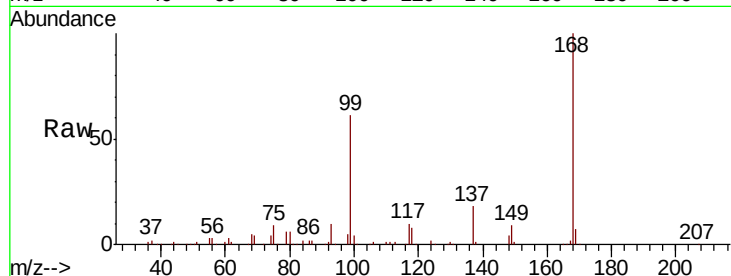
Tgt Ion:117 Resp: 30871

Ion Ratio Lower Upper

117 100

119 4.5 76.9 115.3#

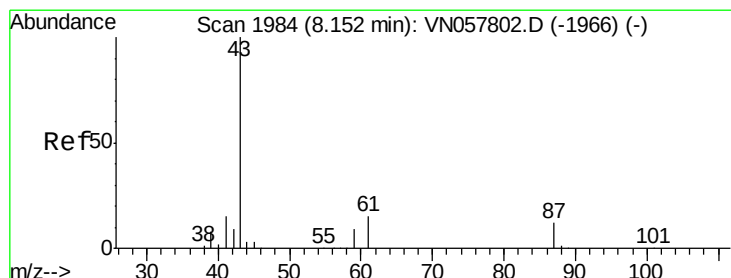
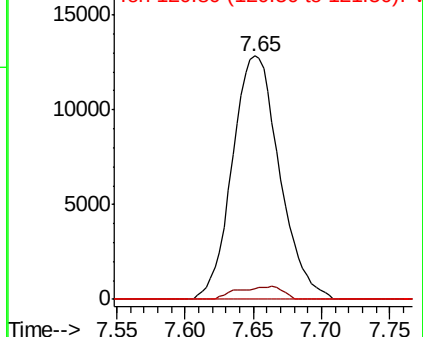
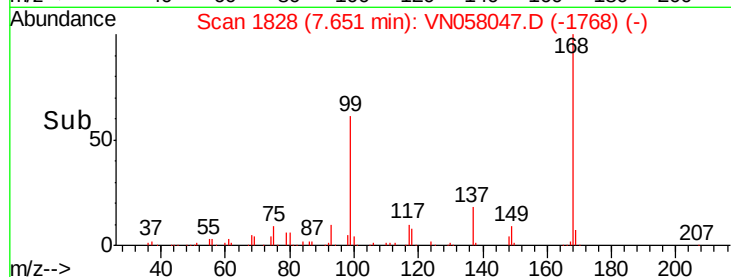
121 0.0 23.4 35.2#



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: 10.623 ug/l

RT: 8.15 min Scan# 1984

Delta R.T. 0.00 min

Lab File: VN058047.D

Acq: 14 Sep 2019 2:43

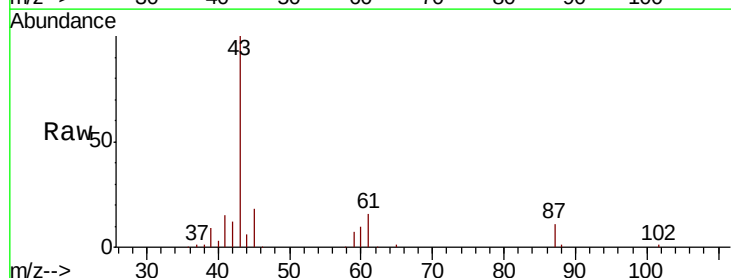
Tgt Ion: 43 Resp: 112778

Ion Ratio Lower Upper

43 100

61 14.3 20.1 30.1#

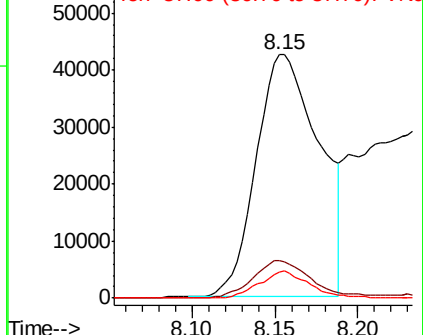
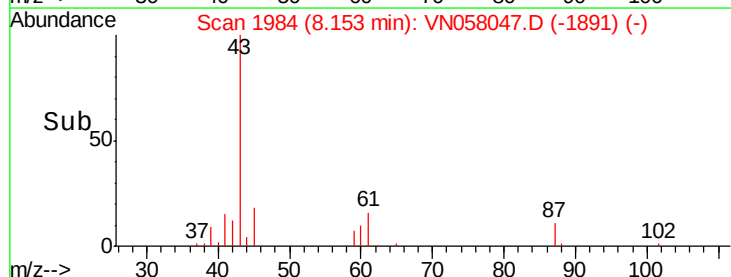
87 8.7 9.5 14.3#

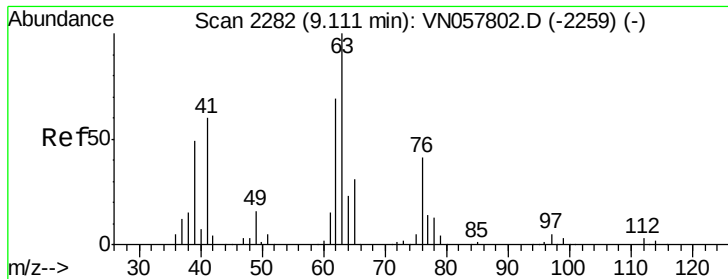


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0

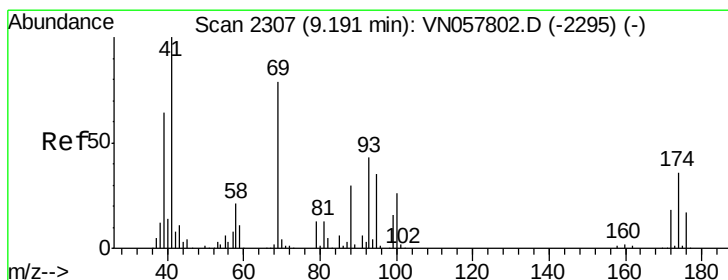
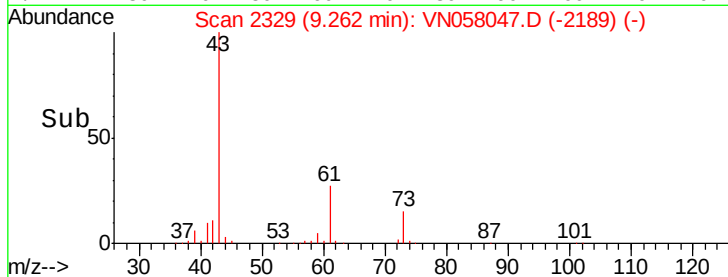
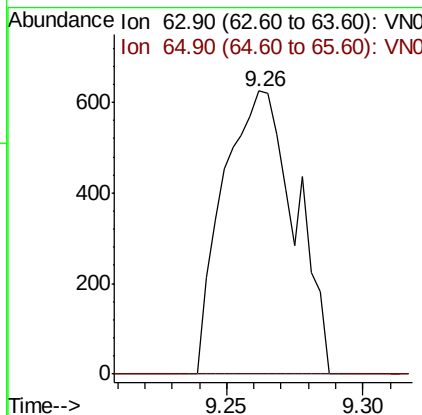
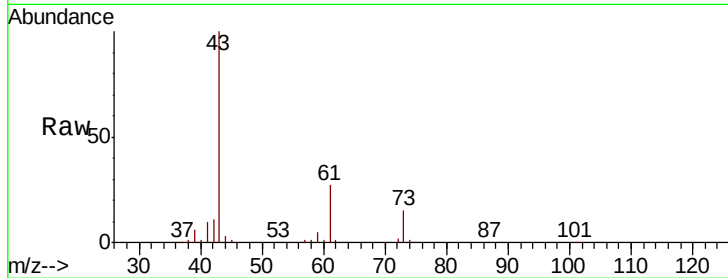




#45
 1,2-Dichloropropane
 Concen: 0.213 ug/l
 RT: 9.26 min Scan# 2329
 Delta R.T. 0.15 min
 Lab File: VN058047.D
 Acq: 14 Sep 2019 2:43

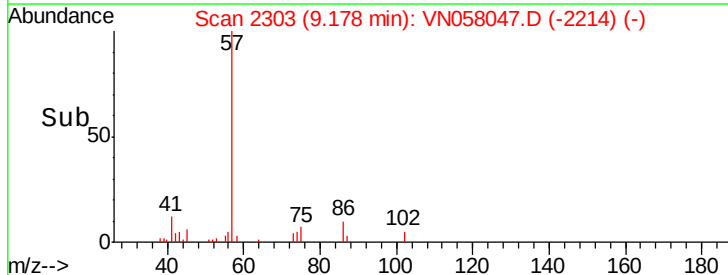
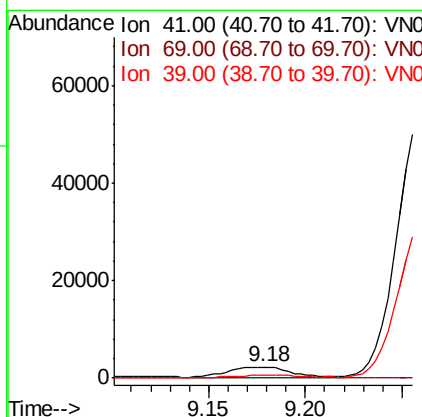
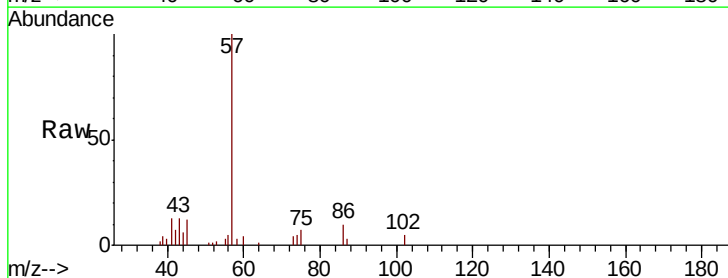
Instrument :
 MSVOA_N
 ClientSampleId :
 T2-4-(1.5)

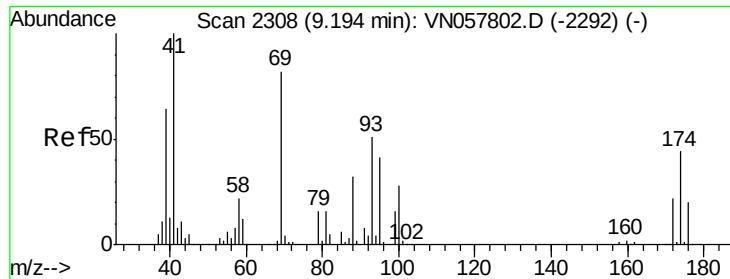
Tgt Ion: 63 Resp: 1141
 Ion Ratio Lower Upper
 63 100
 65 0.0 24.8 37.2#



#48
 Methyl methacrylate
 Concen: 1.006 ug/l
 RT: 9.18 min Scan# 2303
 Delta R.T. -0.01 min
 Lab File: VN058047.D
 Acq: 14 Sep 2019 2:43

Tgt Ion: 41 Resp: 5417
 Ion Ratio Lower Upper
 41 100
 69 0.0 62.7 94.1#
 39 0.0 52.7 79.1#





#49

1,4-Dioxane

Concen: 0.318 ug/l

RT: 9.25 min Scan# 2326

Delta R.T. 0.06 min

Lab File: VN058047.D

Acq: 14 Sep 2019 2:43

Instrument :

MSVOA_N

ClientSampleId :

T2-4-(1.5)

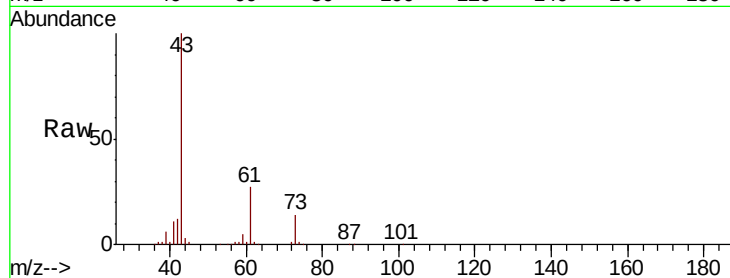
Tgt Ion: 88 Resp: 29

Ion Ratio Lower Upper

88 100

43 3570865.5 28.5 42.7#

58 18924.1 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

600000

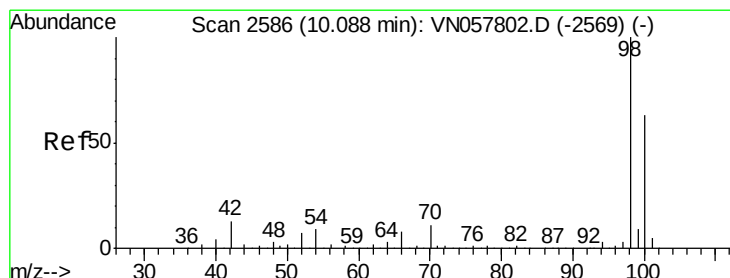
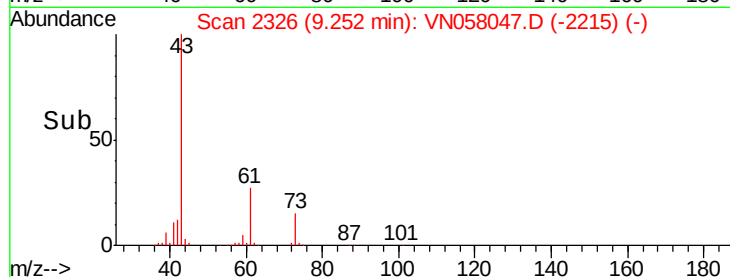
400000

200000

0

9.25

Time-->



#50

Toluene-d8

Concen: 45.432 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. 0.00 min

Lab File: VN058047.D

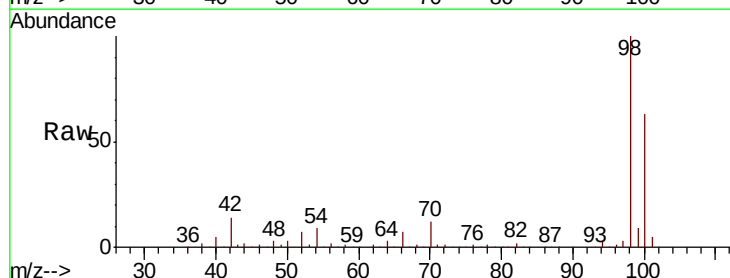
Acq: 14 Sep 2019 2:43

Tgt Ion: 98 Resp: 857719

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

500000

400000

300000

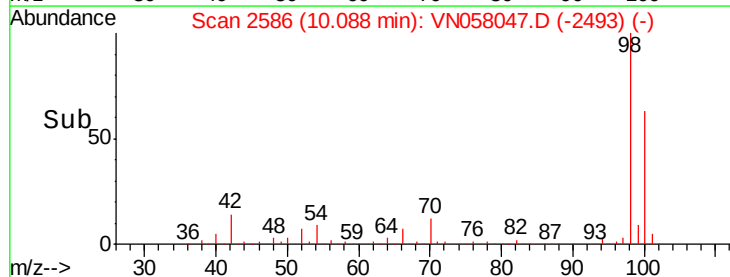
200000

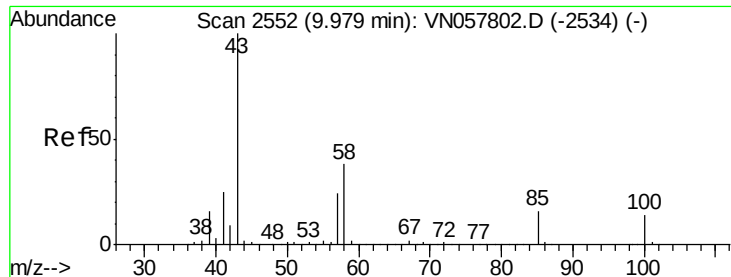
100000

0

10.09

Time-->





#51

4-Methyl-2-Pentanone

Concen: 0.882 ug/l

RT: 9.98 min Scan# 2552

Delta R.T. 0.00 min

Lab File: VN058047.D

Acq: 14 Sep 2019 2:43

Instrument :

MSVOA_N

ClientSampled :

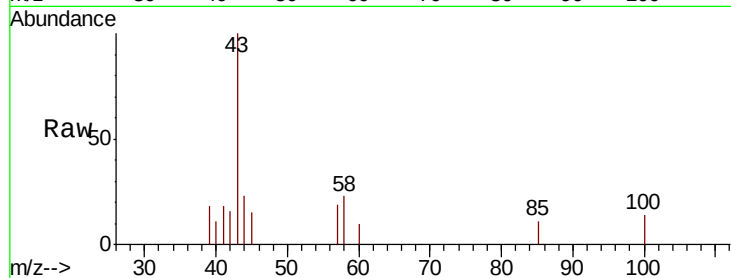
T2-4-(1.5)

Tgt Ion: 43 Resp: 5542

Ion Ratio Lower Upper

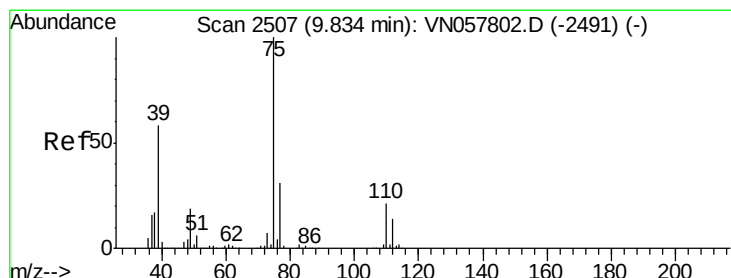
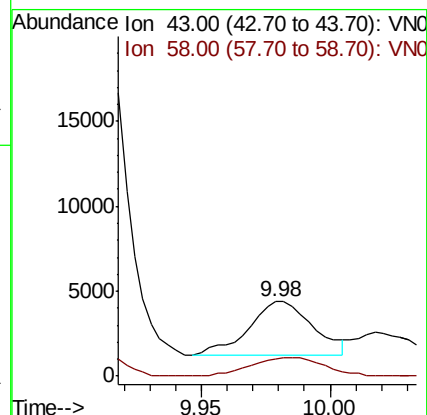
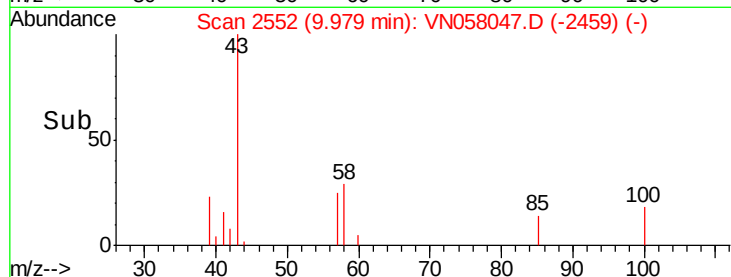
43 100

58 39.1 29.8 44.6



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

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



#54

cis-1,3-Dichloropropene

Concen: 4.884 ug/l

RT: 9.90 min Scan# 2528

Delta R.T. 0.07 min

Lab File: VN058047.D

Acq: 14 Sep 2019 2:43

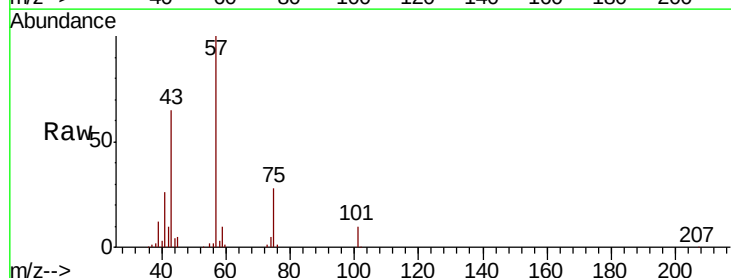
Tgt Ion: 75 Resp: 36678

Ion Ratio Lower Upper

75 100

77 0.0 24.8 37.2#

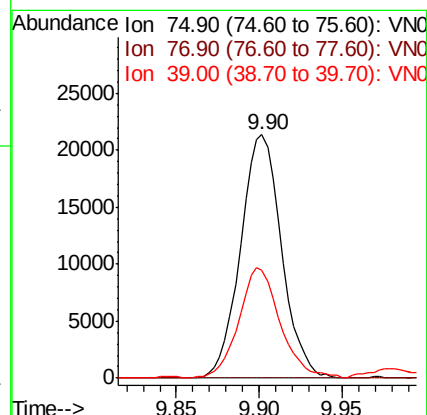
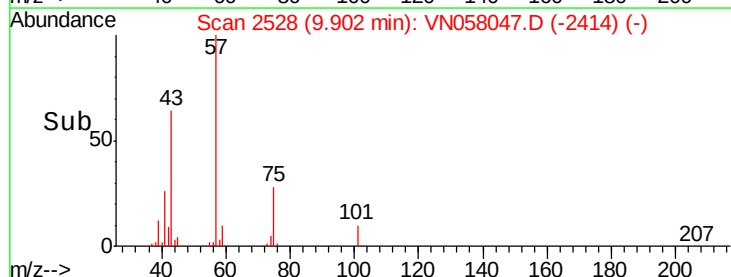
39 44.2 46.2 69.4#

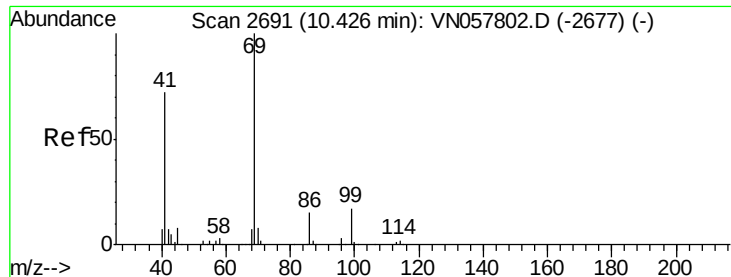


Abundance Ion 74.90 (74.60 to 75.60): VN057802.D (-2491) (-)

Ion 76.90 (76.60 to 77.60): VN057802.D (-2491) (-)

Ion 39.00 (38.70 to 39.70): VN057802.D (-2491) (-)





#56

Ethyl methacrylate

Concen: 0.252 ug/l

RT: 10.55 min Scan# 2729

Delta R.T. 0.12 min

Lab File: VN058047.D

Acq: 14 Sep 2019 2:43

Instrument :

MSVOA_N

ClientSampleId :

T2-4-(1.5)

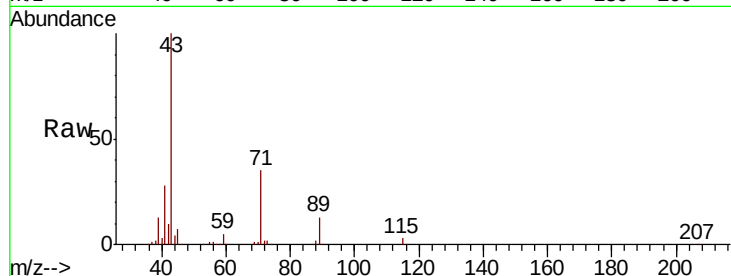
Tgt Ion: 69 Resp: 1861

Ion Ratio Lower Upper

69 100

41 5407.8 56.7 85.1#

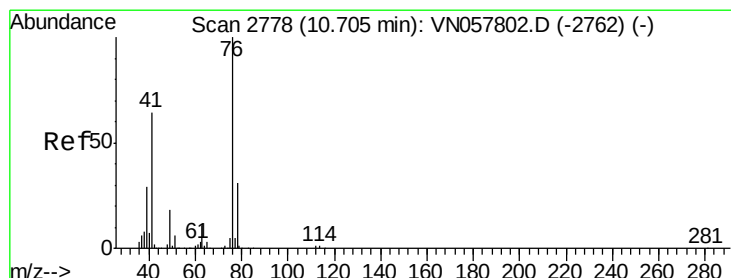
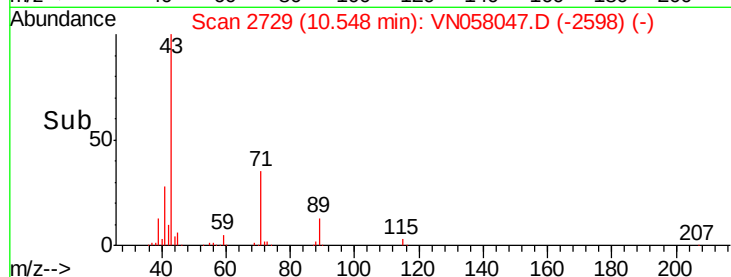
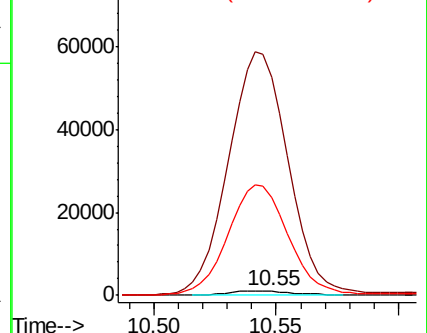
39 2481.8 36.3 54.5#



Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



#57

1,3-Dichloropropane

Concen: 0.530 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.06 min

Lab File: VN058047.D

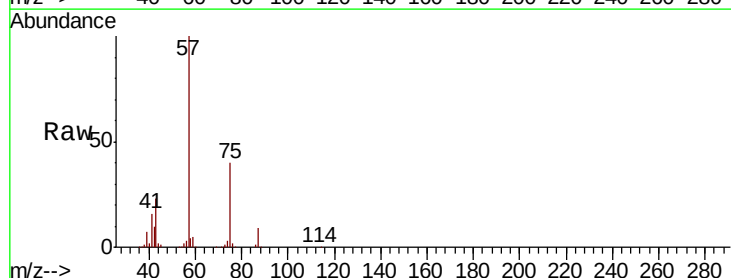
Acq: 14 Sep 2019 2:43

Tgt Ion: 76 Resp: 4479

Ion Ratio Lower Upper

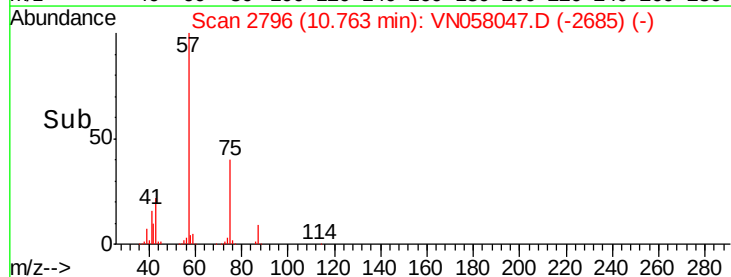
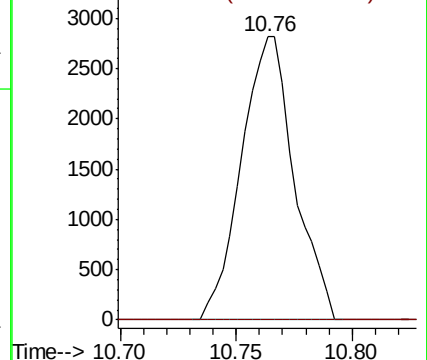
76 100

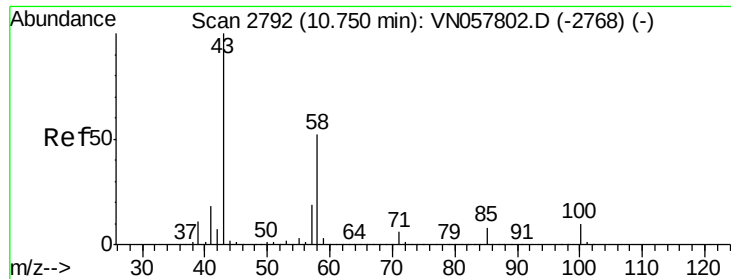
78 0.0 25.4 38.2#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0





#59

2-Hexanone

Concen: 13.386 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN058047.D

Acq: 14 Sep 2019 2:43

Instrument :

MSVOA_N

ClientSampleId :

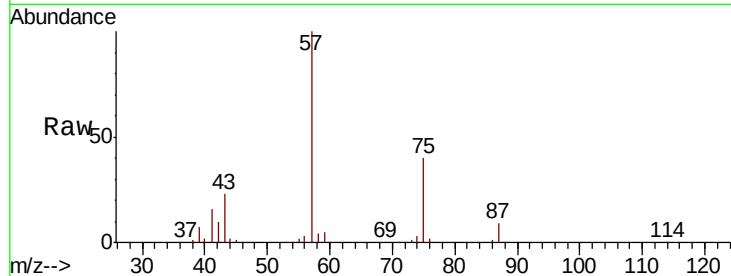
T2-4-(1.5)

Tgt Ion: 43 Resp: 63034

Ion Ratio Lower Upper

43 100

58 20.0 25.6 76.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

60000

40000

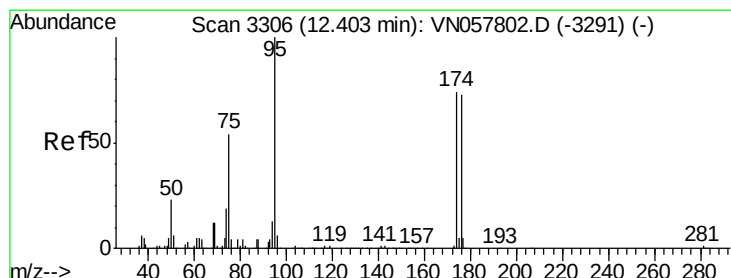
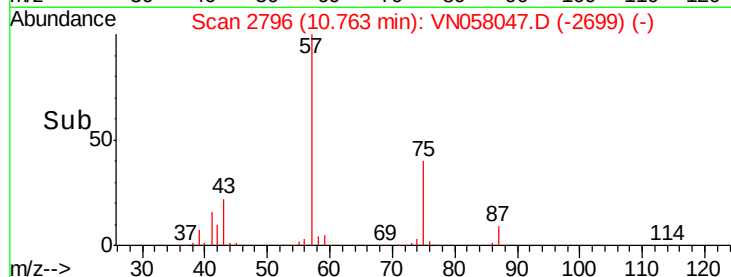
20000

0

10.75

10.80

Time-->



#62

4-Bromofluorobenzene

Concen: 41.349 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN058047.D

Acq: 14 Sep 2019 2:43

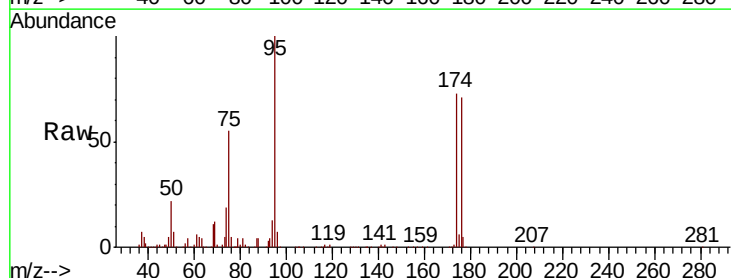
Tgt Ion: 95 Resp: 297490

Ion Ratio Lower Upper

95 100

174 75.0 0.0 150.2

176 72.8 0.0 146.0



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

200000

150000

100000

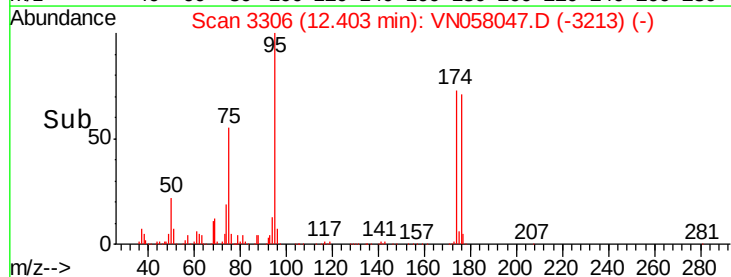
50000

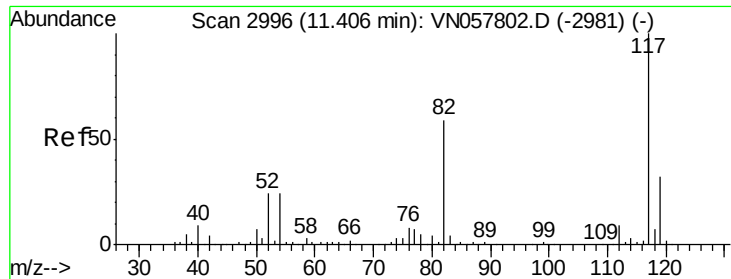
0

12.40

12.50

Time-->

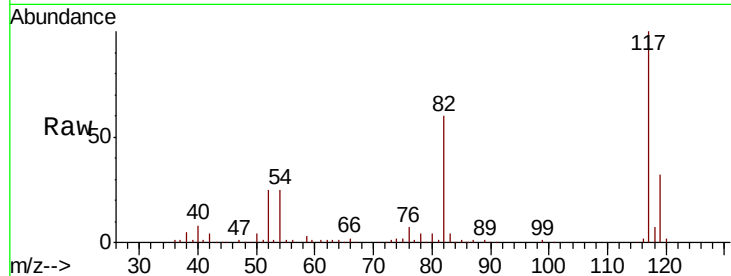




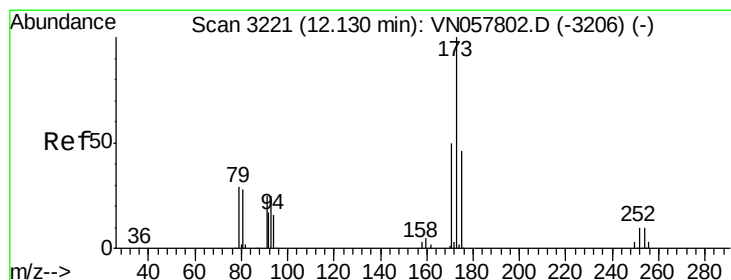
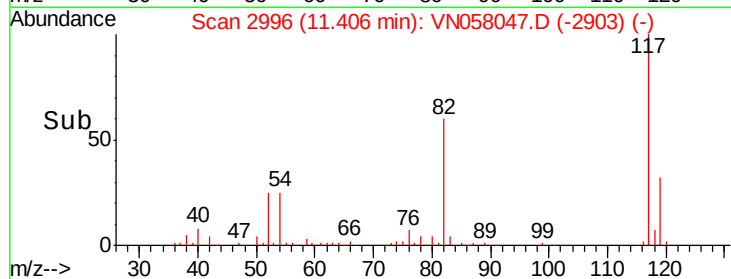
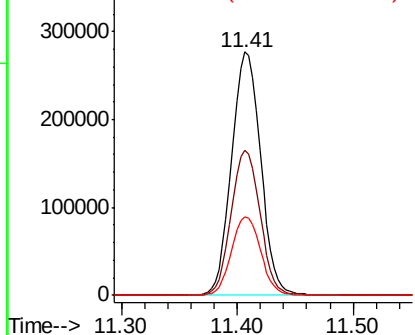
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN058047.D
Acq: 14 Sep 2019 2:43

Instrument :
MSVOA_N
ClientSampled :
T2-4-(1.5)

Tgt Ion:117 Resp: 481580
Ion Ratio Lower Upper
117 100
82 59.8 47.2 70.8
119 32.4 25.3 37.9

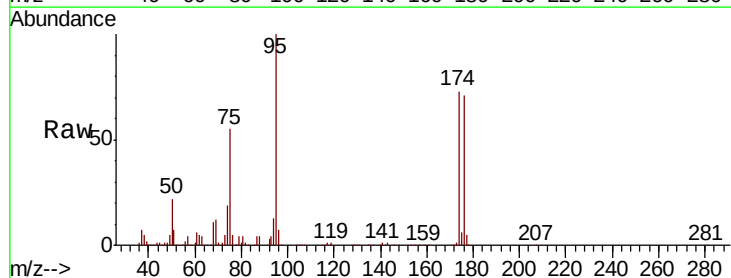


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VN
Ion 118.90 (118.60 to 119.60): V

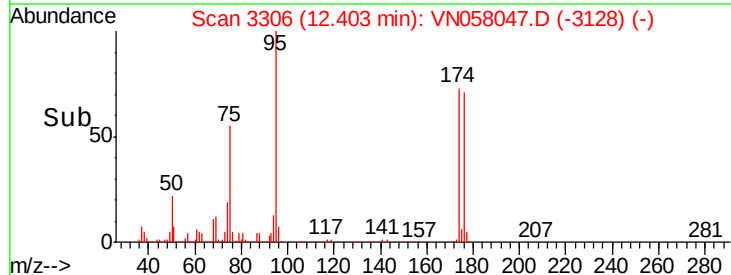
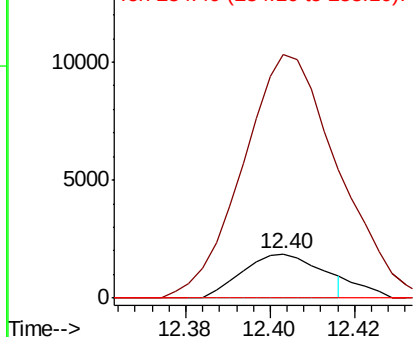


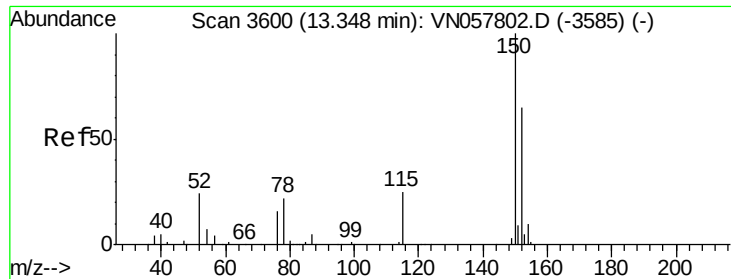
#71
Bromoform
Concen: 0.887 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.27 min
Lab File: VN058047.D
Acq: 14 Sep 2019 2:43

Tgt Ion:173 Resp: 2419
Ion Ratio Lower Upper
173 100
175 581.6 23.5 70.6#
254 0.0 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3600

Delta R.T. 0.00 min

Lab File: VN058047.D

Acq: 14 Sep 2019 2:43

Instrument :

MSVOA_N

ClientSampleId :

T2-4-(1.5)

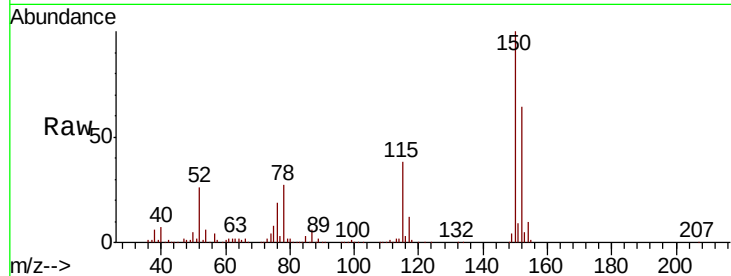
Tgt Ion:152 Resp: 246895

Ion Ratio Lower Upper

152 100

115 61.5 30.3 91.0

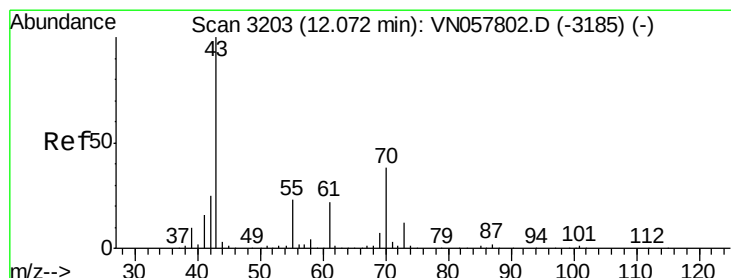
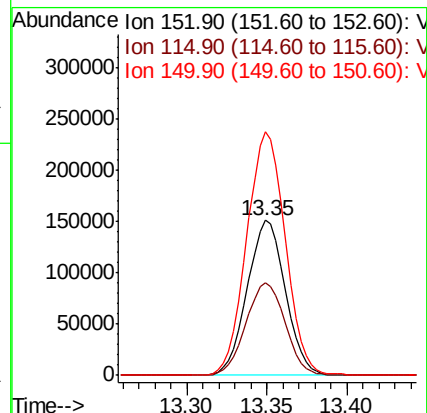
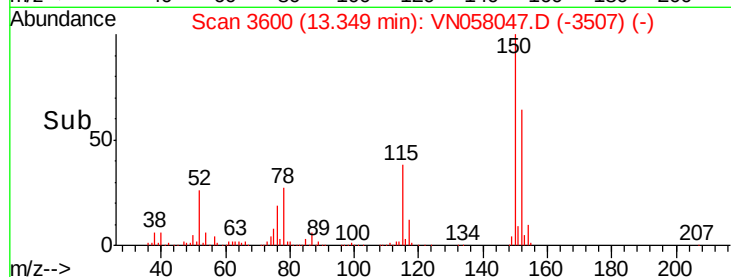
150 159.0 0.0 352.4



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: 0.548 ug/l

RT: 12.04 min Scan# 3192

Delta R.T. -0.04 min

Lab File: VN058047.D

Acq: 14 Sep 2019 2:43

Tgt Ion: 43 Resp: 4566

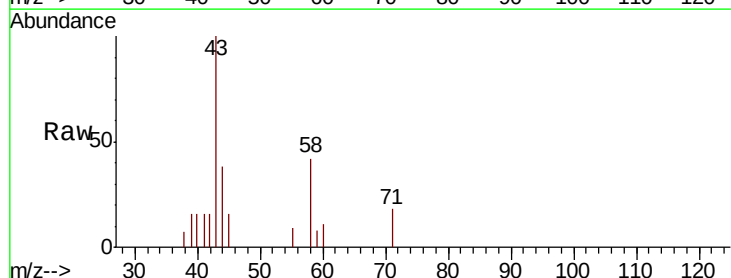
Ion Ratio Lower Upper

43 100

70 0.0 30.6 45.8#

55 5.0 18.6 27.8#

61 0.0 17.4 26.2#

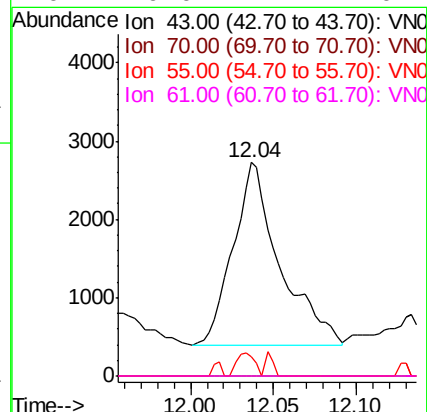
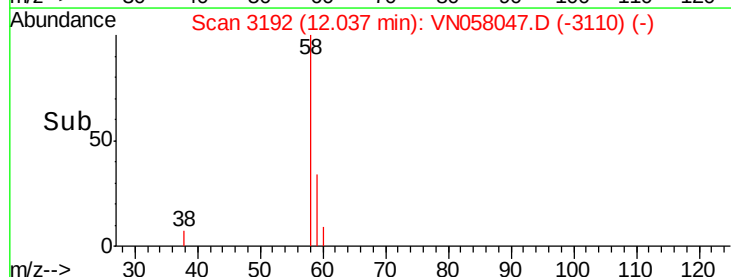


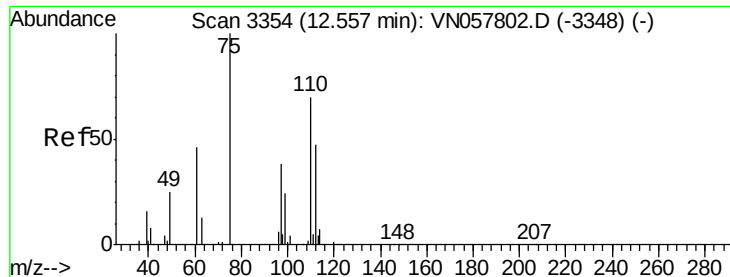
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#76

1,2,3-Trichloropropane

Concen: 29.293 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN058047.D

Acq: 14 Sep 2019 2:43

Instrument :

MSVOA_N

ClientSampled :

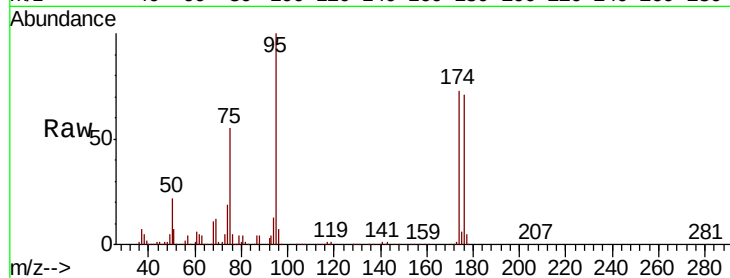
T2-4-(1.5)

Tgt Ion: 75 Resp: 163608

Ion Ratio Lower Upper

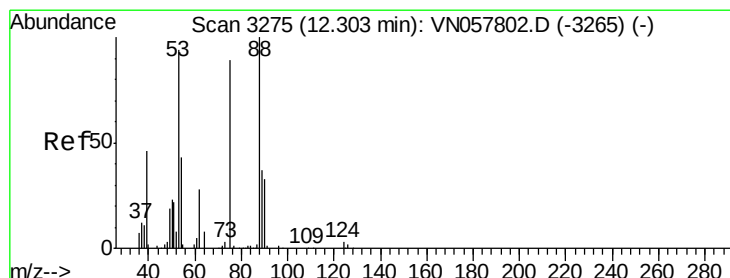
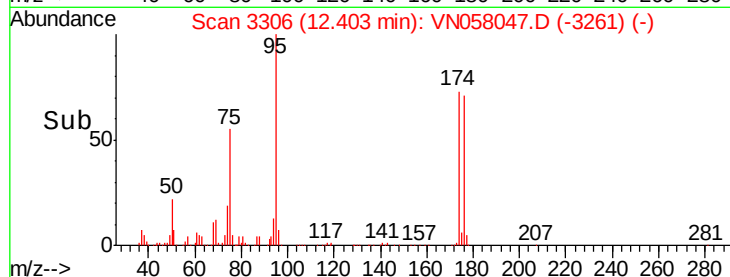
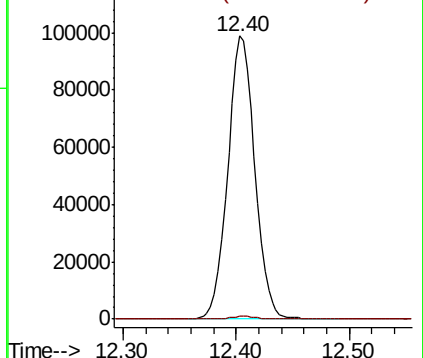
75 100

77 0.9 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: 103.083 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN058047.D

Acq: 14 Sep 2019 2:43

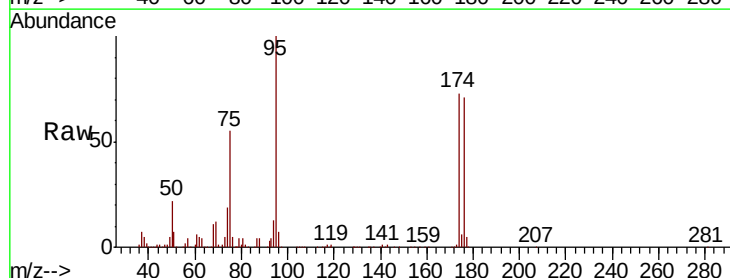
Tgt Ion: 75 Resp: 163608

Ion Ratio Lower Upper

75 100

53 0.0 88.4 132.6#

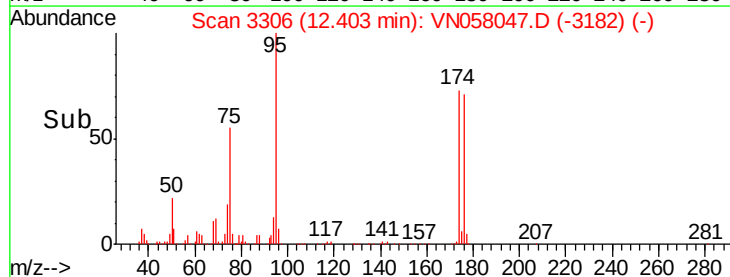
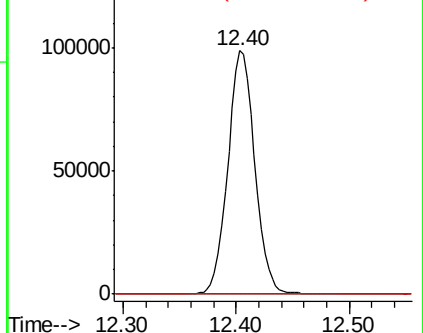
89 0.0 35.3 52.9#

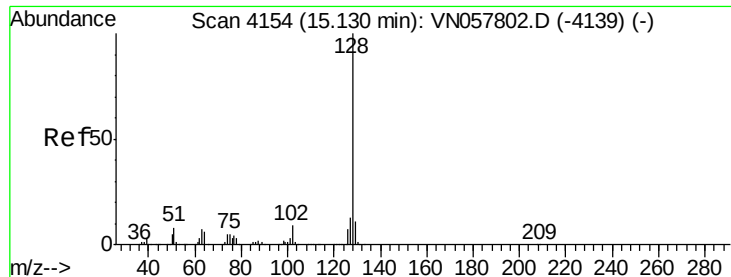


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0





#95

Naphthalene

Concen: Below Cal

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN058047.D

Acq: 14 Sep 2019 2:43

Instrument :

MSVOA_N

ClientSampleId :

T2-4-(1.5)

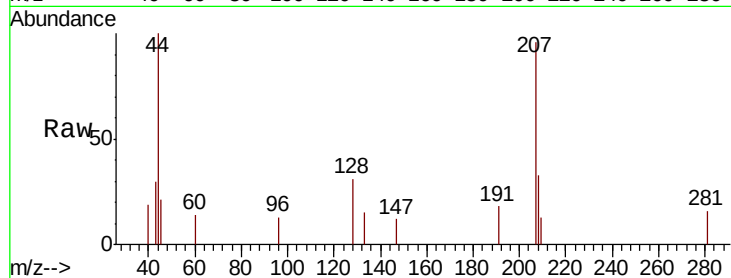
Tgt Ion:128 Resp: 521

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

129 0.0 8.6 12.8#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

