

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN090619\
 Data File : VN057738.D
 Acq On : 7 Sep 2019 00:50
 Operator : JC/SP
 Sample : K4580-39
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 T12-A1-(3.5)

Quant Time: Sep 07 03:41:37 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N090619W.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 06 03:46:54 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	190987	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	323301	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	300299	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	152191	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	246352	53.02	ug/l	0.00
Spiked Amount			Recovery	=	106.04%	
35) Dibromofluoromethane	7.57	113	146660	49.80	ug/l	0.00
Spiked Amount			Recovery	=	99.60%	
50) Toluene-d8	10.08	98	560372	51.44	ug/l	0.00
Spiked Amount			Recovery	=	102.88%	
62) 4-Bromofluorobenzene	12.40	95	209839	46.38	ug/l	0.00
Spiked Amount			Recovery	=	92.76%	

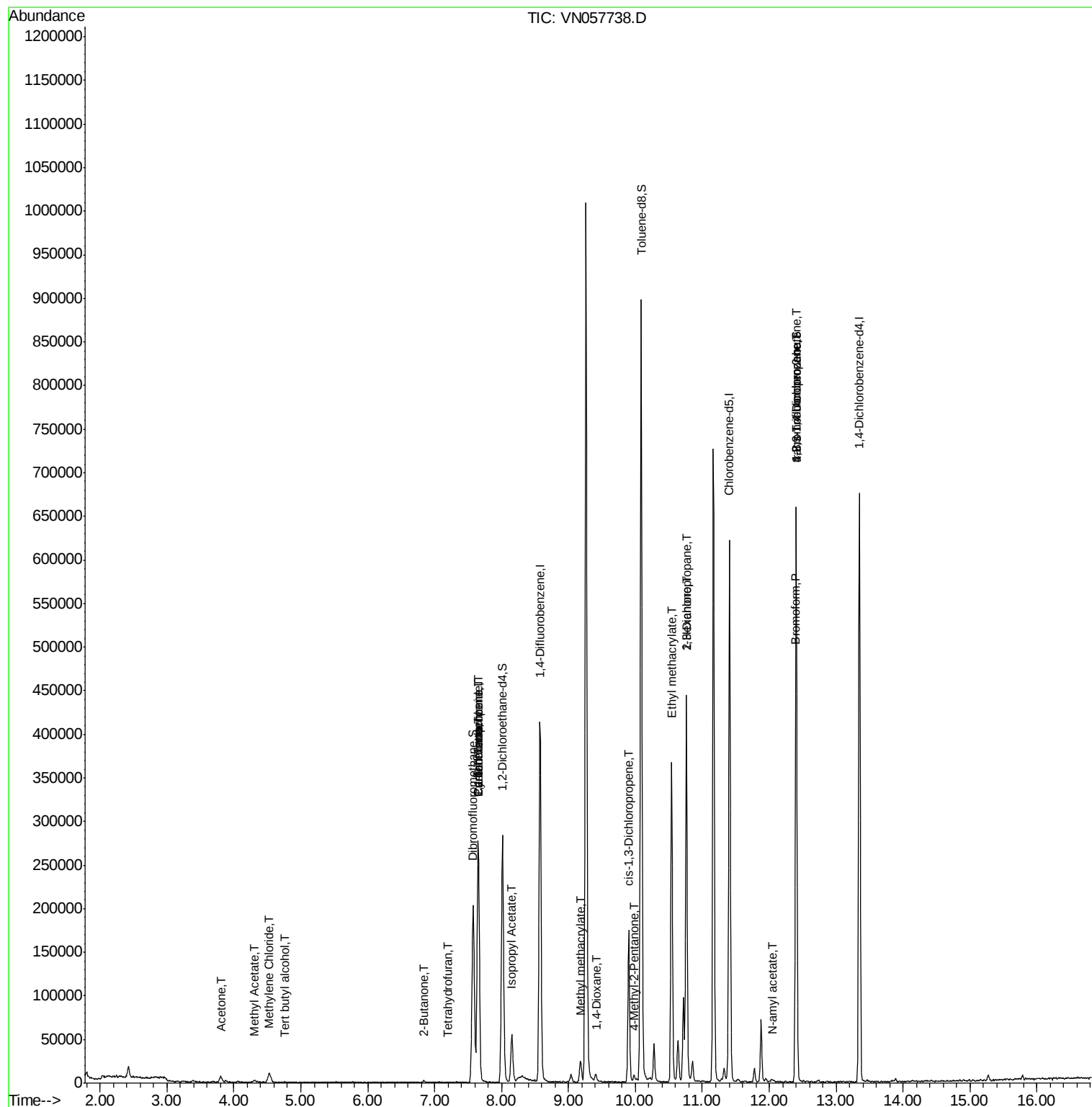
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	1049	Below Cal		96
11) Tert butyl alcohol	4.76	59	136	0.258	ug/l #	71
16) Acetone	3.80	43	11514	8.053	ug/l #	89
18) Methyl Acetate	4.30	43	1068	0.275	ug/l #	58
20) Methylene Chloride	4.52	84	6856	2.218	ug/l	90
25) 2-Butanone	6.83	43	3594	1.755	ug/l	94
29) Tetrahydrofuran	7.20	42	326	0.247	ug/l #	40
31) Cyclohexane	7.65	56	6017	1.154	ug/l #	15
36) 1,1-Dichloropropene	7.65	75	19674	4.574	ug/l #	53
38) Carbon Tetrachloride	7.65	117	22145	5.377	ug/l #	17
43) Isopropyl Acetate	8.15	43	67547	8.242	ug/l	99
48) Methyl methacrylate	9.17	41	4062	0.964	ug/l #	16
49) 1,4-Dioxane	9.41	88	32	0.652	ug/l #	19
51) 4-Methyl-2-Pentanone	9.98	43	5938	1.305	ug/l	95
54) cis-1,3-Dichloropropene	9.90	75	26353	5.242	ug/l #	64
56) Ethyl methacrylate	10.54	69	1216	0.257	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	3708	0.696	ug/l #	43
59) 2-Hexanone	10.76	43	73012	22.748	ug/l #	57
71) Bromoform	12.38	173	78	3.278	ug/l #	28
74) N-amyl acetate	12.03	43	2129	0.317	ug/l #	54
76) 1,2,3-Trichloropropane	12.40	75	126613	36.228	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	126613	112.670	ug/l #	1

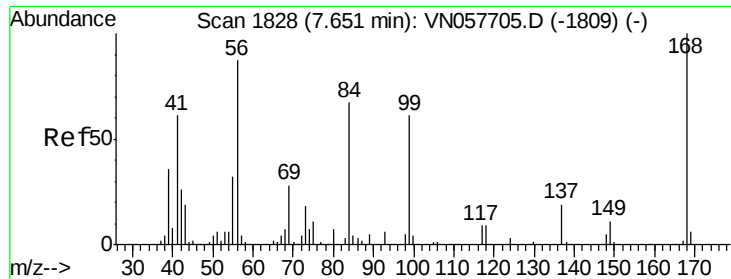
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Sep 06 03:46:54 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: VN057738.D

Acq: 7 Sep 2019 00:50

Instrument :

MSVOA_N

ClientSampleId :

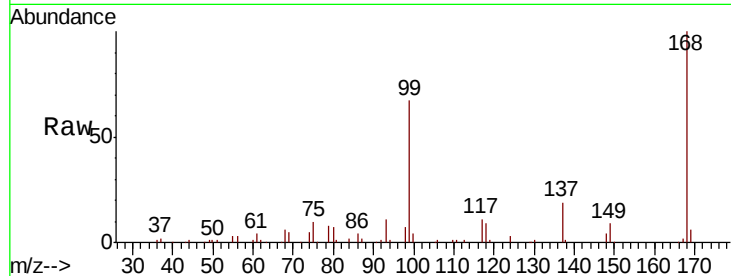
T12-A1-(3.5)

Tgt Ion:168 Resp: 190987

Ion Ratio Lower Upper

168 100

99 66.5 57.4 86.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.65

80000

60000

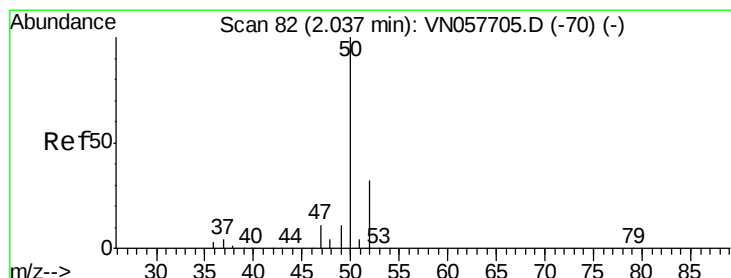
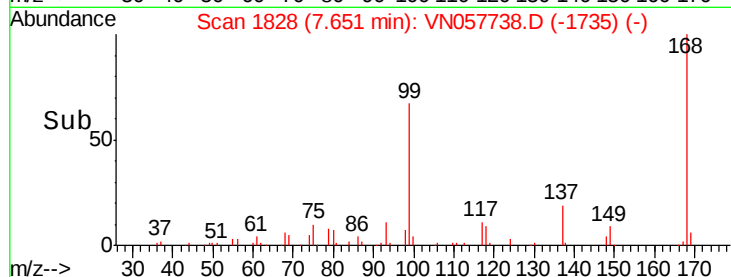
40000

20000

0

Time-->

7.55 7.60 7.65 7.70 7.75



#3

Chloromethane

Concen: Below Cal

RT: 2.04 min Scan# 82

Delta R.T. 0.00 min

Lab File: VN057738.D

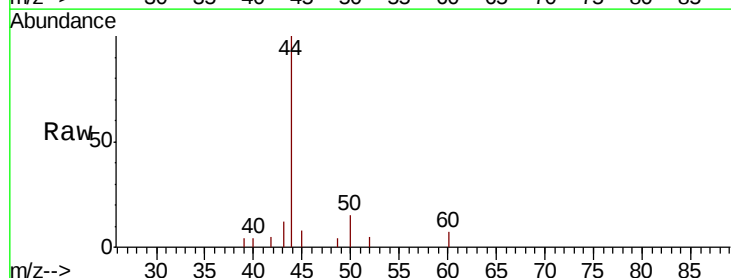
Acq: 7 Sep 2019 00:50

Tgt Ion: 50 Resp: 1049

Ion Ratio Lower Upper

50 100

52 35.0 26.0 39.0



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

2.04

800

600

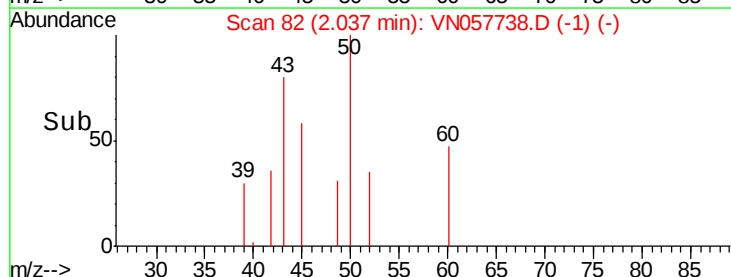
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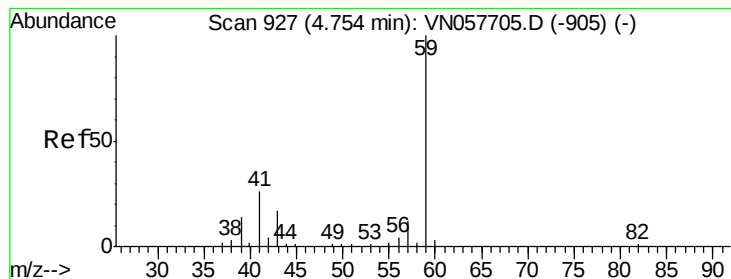
200

0

Time-->

2.00 2.02 2.04 2.06





#11

Tert butyl alcohol

Concen: 0.258 ug/l

RT: 4.76 min Scan# 928

Delta R.T. 0.00 min

Lab File: VN057738.D

Acq: 7 Sep 2019 00:50

Instrument :

MSVOA_N

ClientSampled :

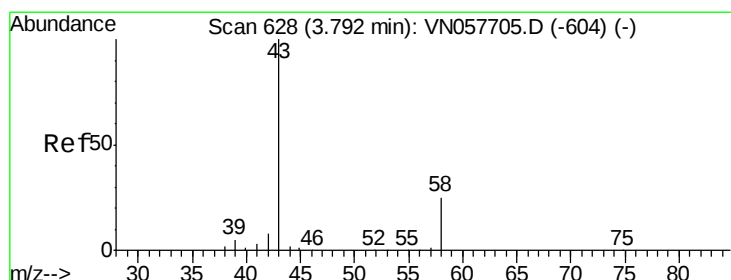
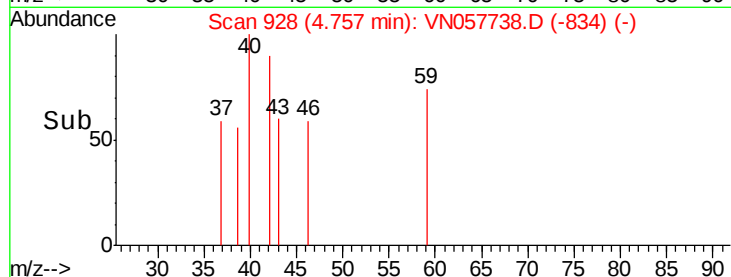
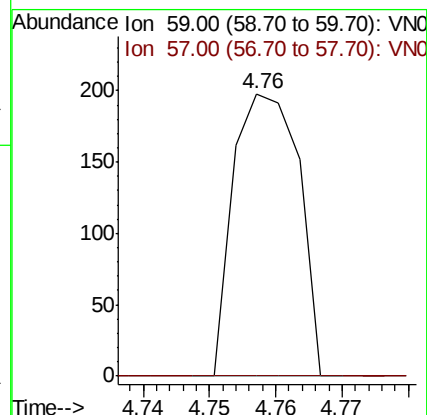
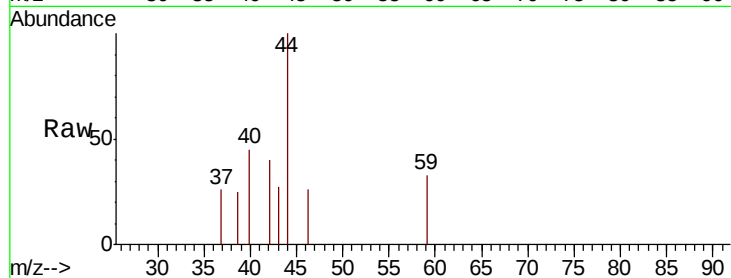
T12-A1-(3.5)

Tgt Ion: 59 Resp: 136

Ion Ratio Lower Upper

59 100

57 0.0 8.9 13.3#



#16

Acetone

Concen: 8.053 ug/l

RT: 3.80 min Scan# 631

Delta R.T. 0.01 min

Lab File: VN057738.D

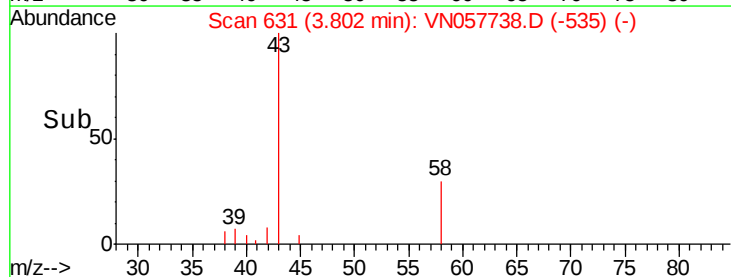
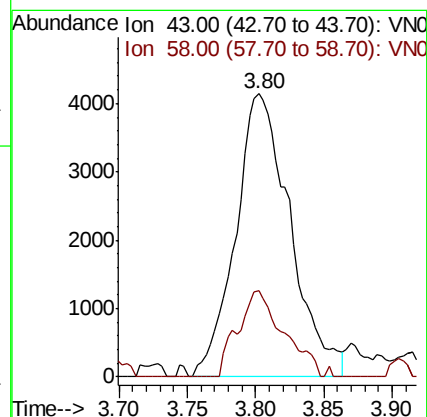
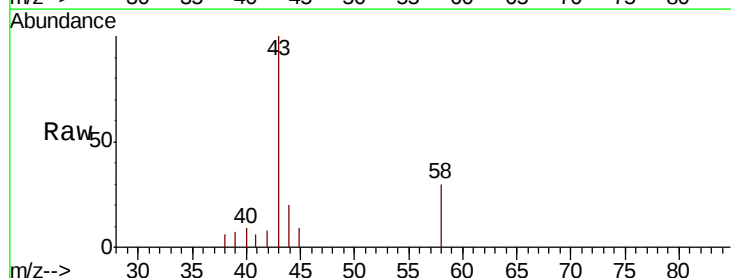
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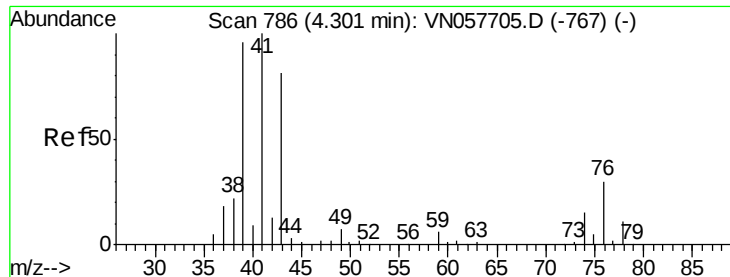
Tgt Ion: 43 Resp: 11514

Ion Ratio Lower Upper

43 100

58 30.4 19.8 29.8#

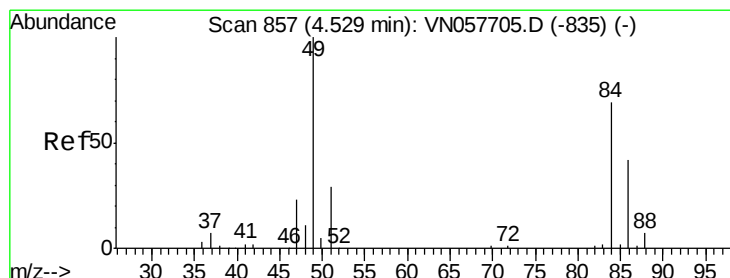
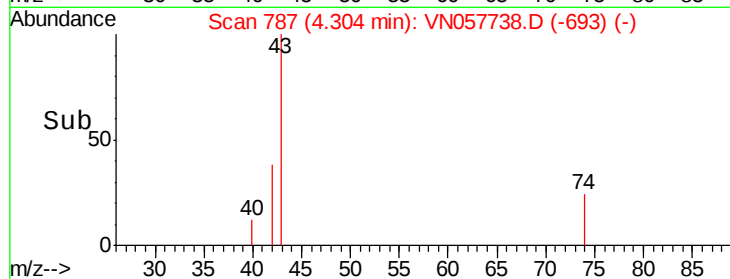
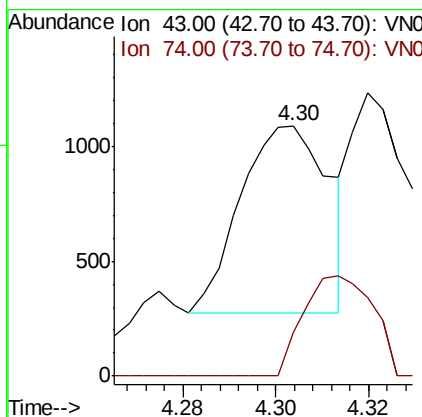
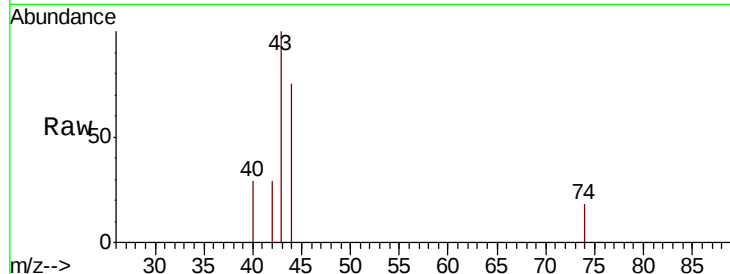




#18
Methyl Acetate
Concen: 0.275 ug/l
RT: 4.30 min Scan# 787
Delta R.T. 0.00 min
Lab File: VN057738.D
Acq: 7 Sep 2019 00:50

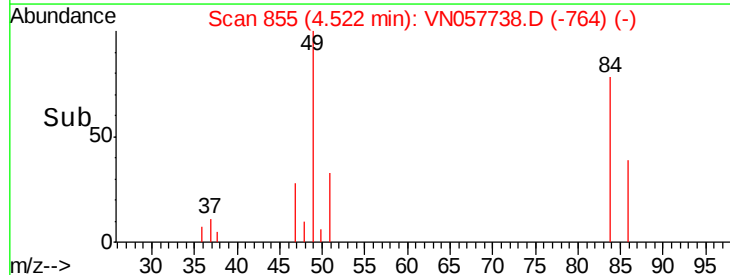
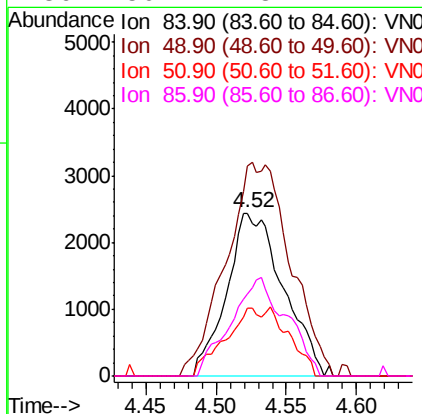
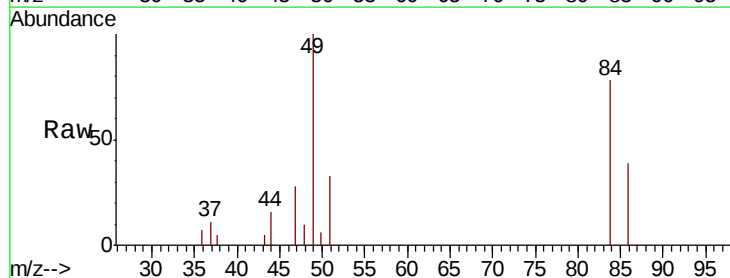
Instrument :
MSVOA_N
ClientSampled :
T12-A1-(3.5)

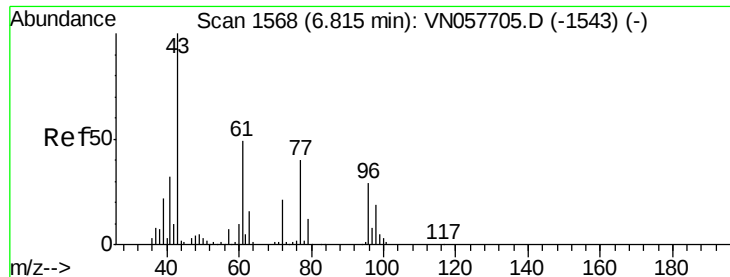
Tgt Ion: 43 Resp: 1068
Ion Ratio Lower Upper
43 100
74 0.0 15.3 22.9#



#20
Methylene Chloride
Concen: 2.218 ug/l
RT: 4.52 min Scan# 855
Delta R.T. -0.01 min
Lab File: VN057738.D
Acq: 7 Sep 2019 00:50

Tgt Ion: 84 Resp: 6856
Ion Ratio Lower Upper
84 100
49 128.9 115.0 172.6
51 42.0 33.8 50.8
86 50.4 48.2 72.2

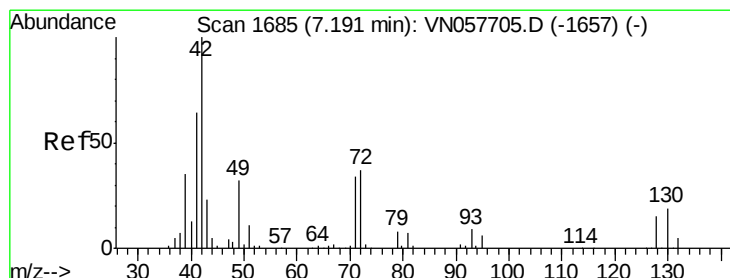
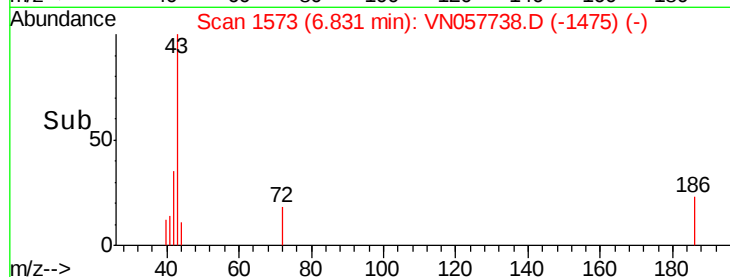
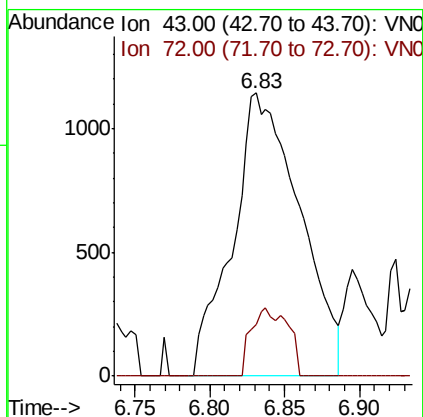
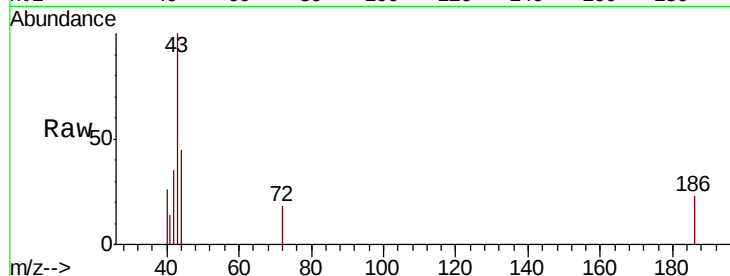




#25
 2-Butanone
 Concen: 1.755 ug/l
 RT: 6.83 min Scan# 1573
 Delta R.T. 0.02 min
 Lab File: VN057738.D
 Acq: 7 Sep 2019 00:50

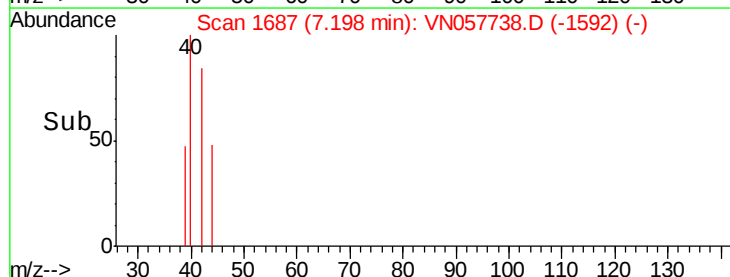
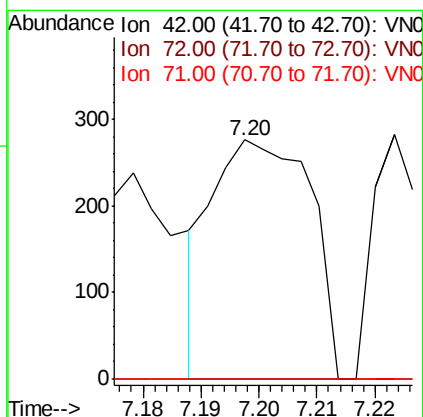
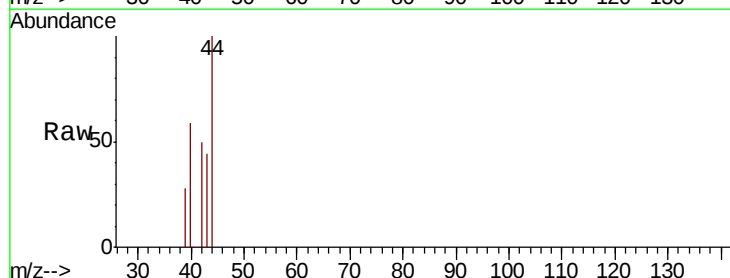
Instrument :
 MSVOA_N
 ClientSampled :
 T12-A1-(3.5)

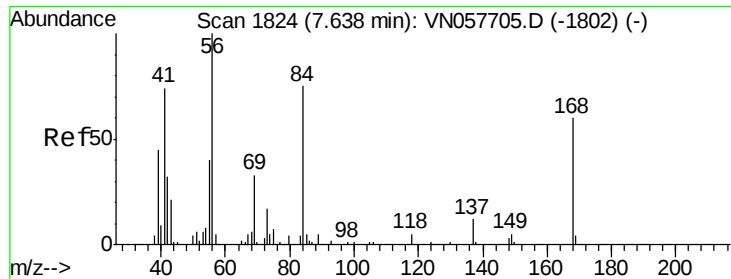
Tgt Ion: 43 Resp: 3594
 Ion Ratio Lower Upper
 43 100
 72 18.3 17.0 25.6



#29
 Tetrahydrofuran
 Concen: 0.247 ug/l
 RT: 7.20 min Scan# 1687
 Delta R.T. 0.01 min
 Lab File: VN057738.D
 Acq: 7 Sep 2019 00:50

Tgt Ion: 42 Resp: 326
 Ion Ratio Lower Upper
 42 100
 72 0.0 29.2 43.8#
 71 0.0 27.0 40.4#

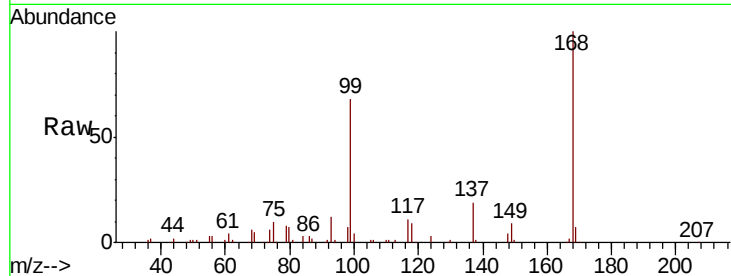




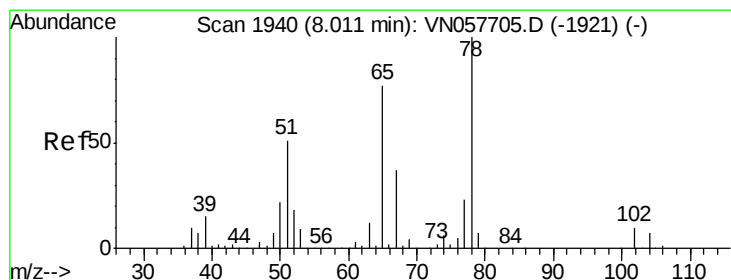
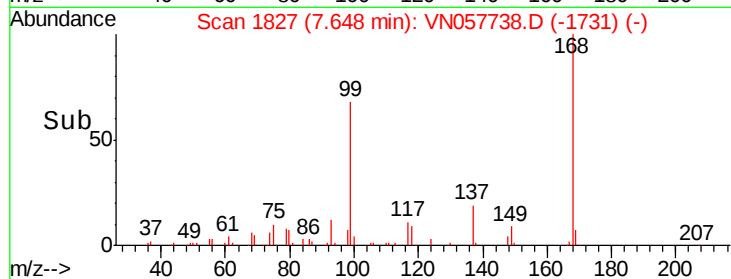
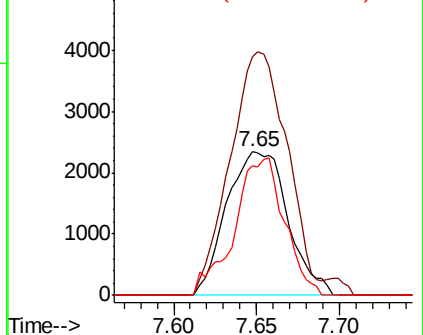
#31
Cyclohexane
Concen: 1.154 ug/l
RT: 7.65 min Scan# 1827
Delta R.T. 0.01 min
Lab File: VN057738.D
Acq: 7 Sep 2019 00:50

Instrument :
MSVOA_N
ClientSampleId :
T12-A1-(3.5)

Tgt Ion: 56 Resp: 6017
Ion Ratio Lower Upper
56 100
69 166.4 26.2 39.2#
84 90.7 59.8 89.8#

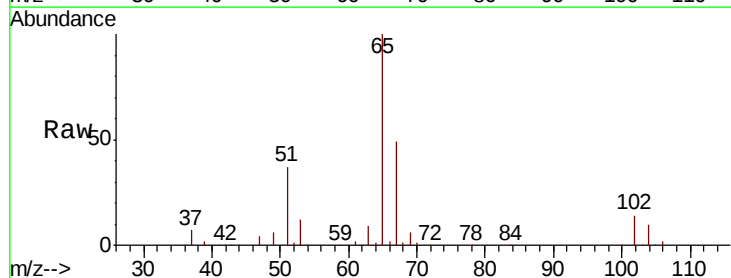


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

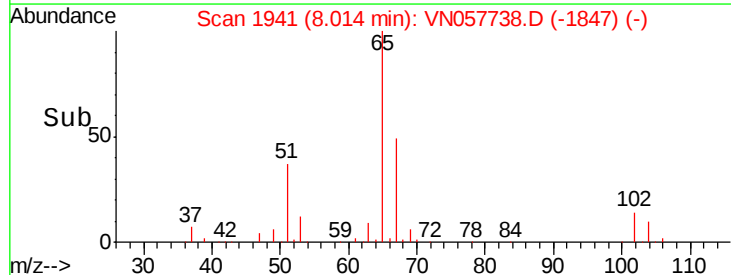
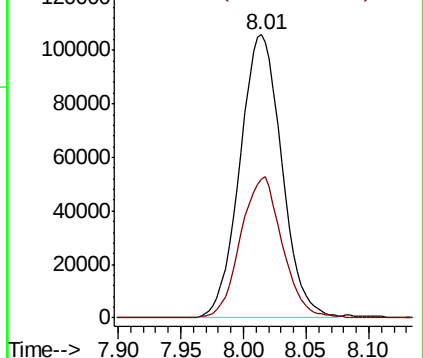


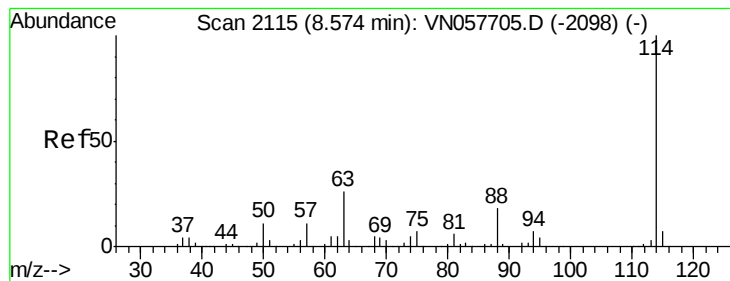
#33
1,2-Dichloroethane-d4
Concen: 53.023 ug/l
RT: 8.01 min Scan# 1941
Delta R.T. 0.00 min
Lab File: VN057738.D
Acq: 7 Sep 2019 00:50

Tgt Ion: 65 Resp: 246352
Ion Ratio Lower Upper
65 100
67 49.5 0.0 98.2



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





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.58 min Scan# 2116

Delta R.T. 0.00 min

Lab File: VN057738.D

Acq: 7 Sep 2019 00:50

Instrument :

MSVOA_N

ClientSampleId :

T12-A1-(3.5)

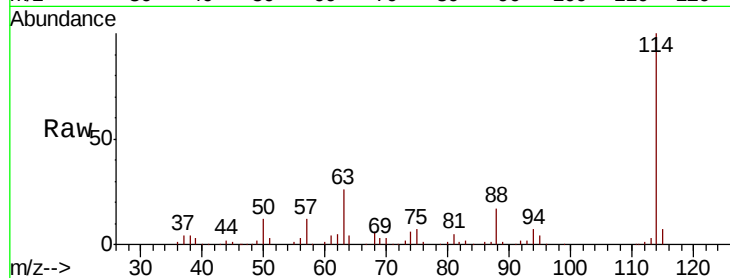
Tgt Ion:114 Resp: 323301

Ion Ratio Lower Upper

114 100

63 26.2 0.0 52.4

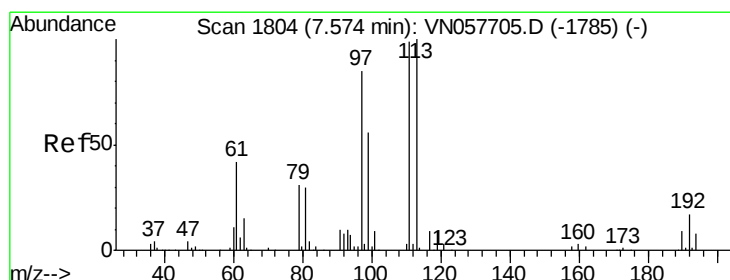
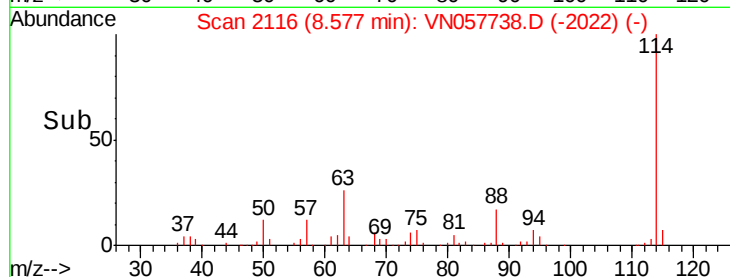
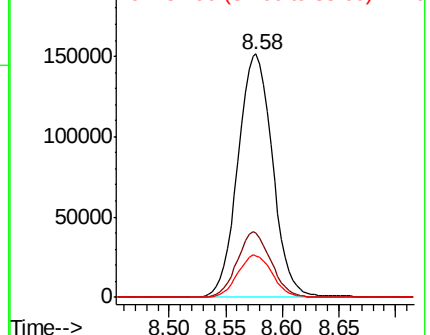
88 17.2 0.0 35.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN



#35

Dibromofluoromethane

Concen: 49.803 ug/l

RT: 7.57 min Scan# 1804

Delta R.T. 0.00 min

Lab File: VN057738.D

Acq: 7 Sep 2019 00:50

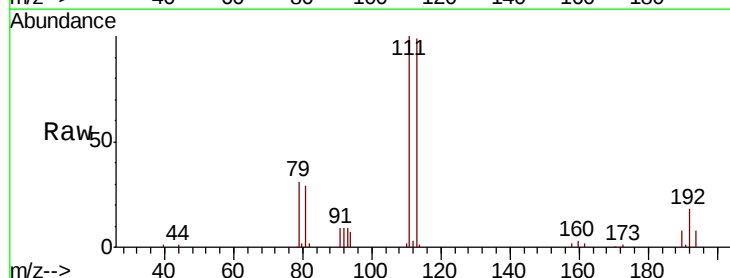
Tgt Ion:113 Resp: 146660

Ion Ratio Lower Upper

113 100

111 103.3 82.7 124.1

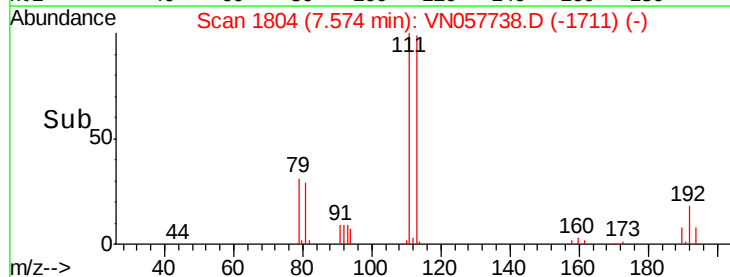
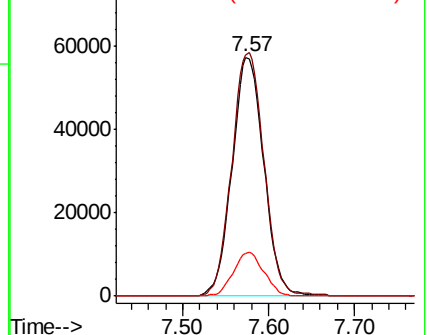
192 17.6 13.8 20.6

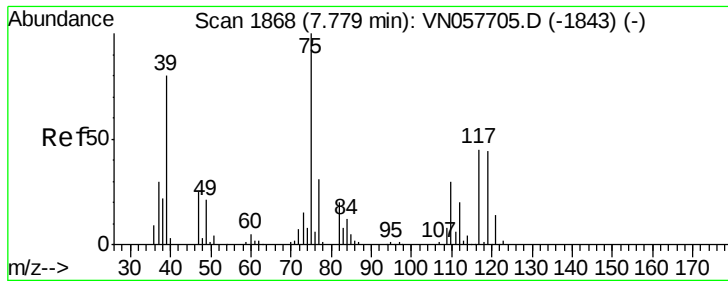


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

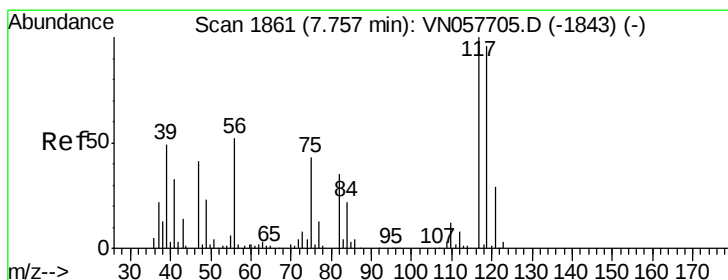
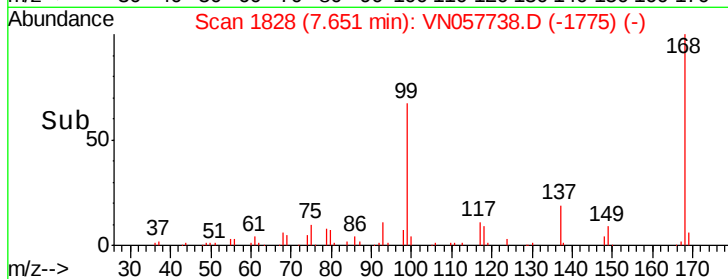
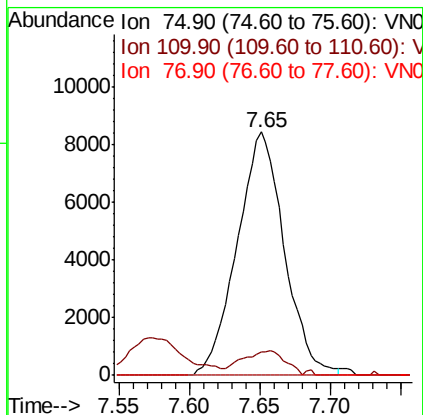
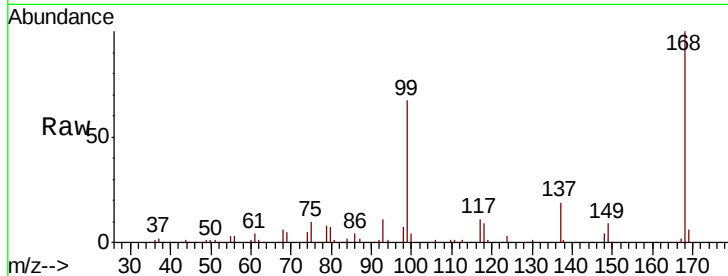




#36
 1,1-Dichloropropene
 Concen: 4.574 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.13 min
 Lab File: VN057738.D
 Acq: 7 Sep 2019 00:50

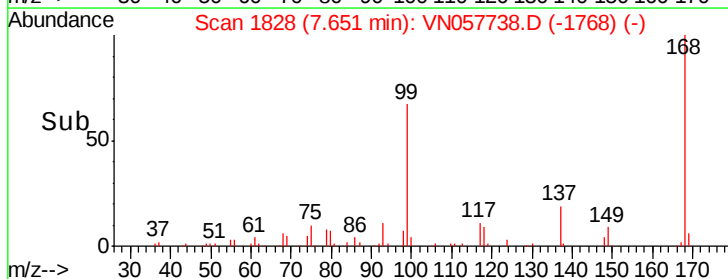
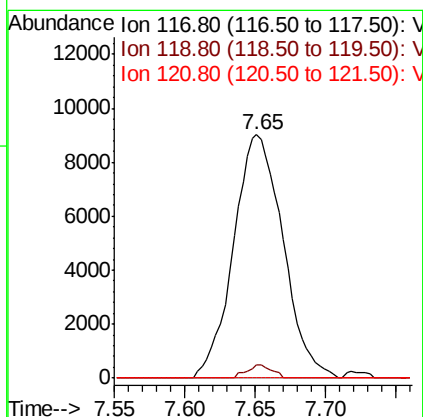
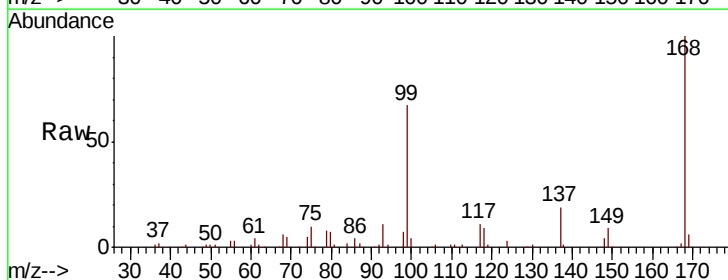
Instrument :
 MSVOA_N
 ClientSampled :
 T12-A1-(3.5)

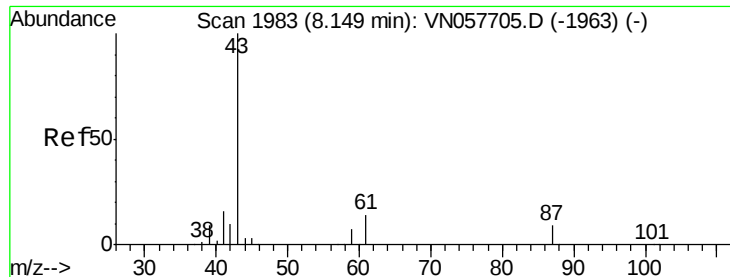
Tgt Ion: 75 Resp: 19674
 Ion Ratio Lower Upper
 75 100
 110 9.5 15.0 45.0#
 77 0.0 24.6 37.0#



#38
 Carbon Tetrachloride
 Concen: 5.377 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.11 min
 Lab File: VN057738.D
 Acq: 7 Sep 2019 00:50

Tgt Ion: 117 Resp: 22145
 Ion Ratio Lower Upper
 117 100
 119 5.3 76.1 114.1#
 121 0.0 23.4 35.2#





#43

Isopropyl Acetate

Concen: 8.242 ug/l

RT: 8.15 min Scan# 1984

Delta R.T. 0.00 min

Lab File: VN057738.D

Acq: 7 Sep 2019 00:50

Instrument :

MSVOA_N

ClientSampleId :

T12-A1-(3.5)

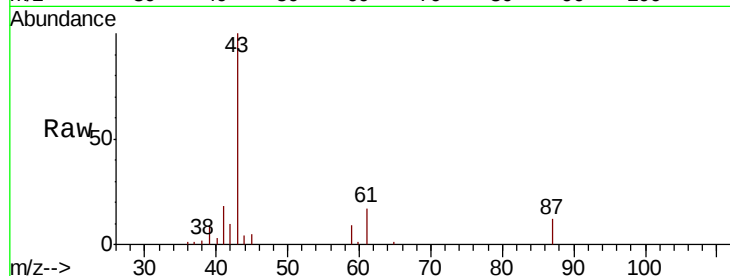
Tgt Ion: 43 Resp: 67547

Ion Ratio Lower Upper

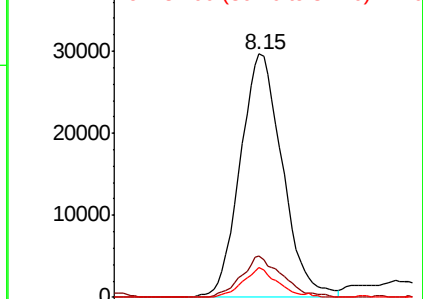
43 100

61 16.3 12.8 19.2

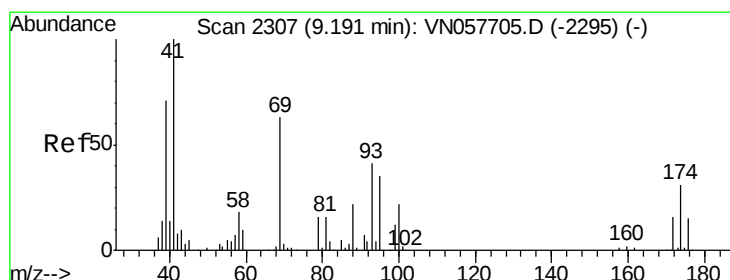
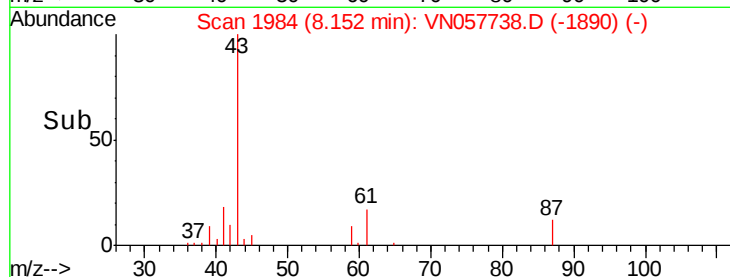
87 10.0 7.8 11.8



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



Time--> 8.05 8.10 8.15 8.20 8.25



#48

Methyl methacrylate

Concen: 0.964 ug/l

RT: 9.17 min Scan# 2302

Delta R.T. -0.02 min

Lab File: VN057738.D

Acq: 7 Sep 2019 00:50

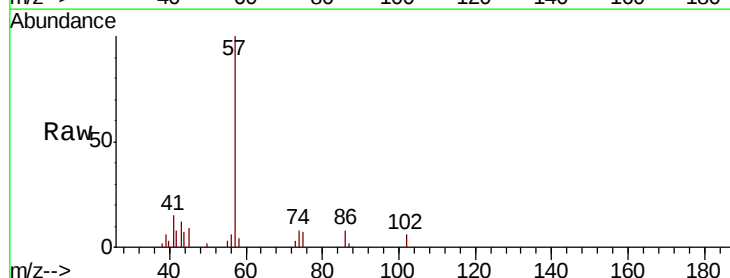
Tgt Ion: 41 Resp: 4062

Ion Ratio Lower Upper

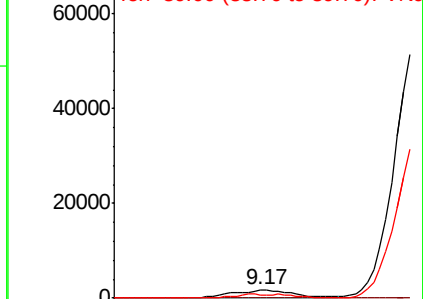
41 100

69 0.0 51.2 76.8#

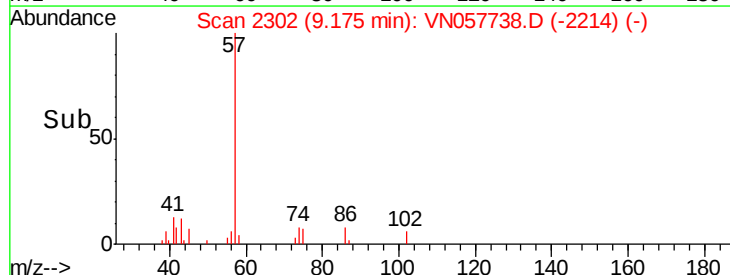
39 0.0 57.3 85.9#

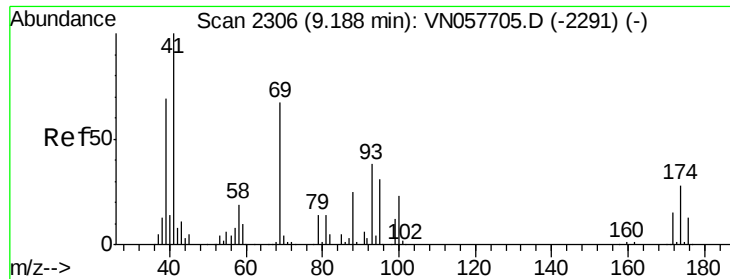


Abundance Ion 41.00 (40.70 to 41.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 39.00 (38.70 to 39.70): VNC



Time--> 9.10 9.15 9.20

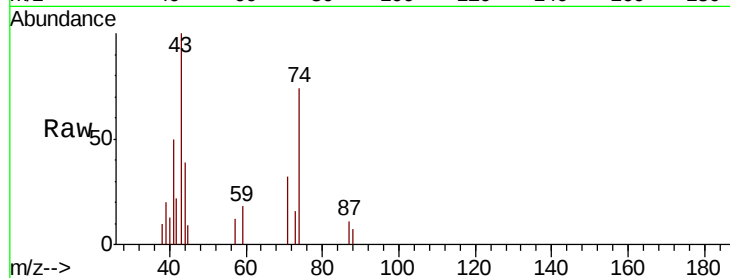




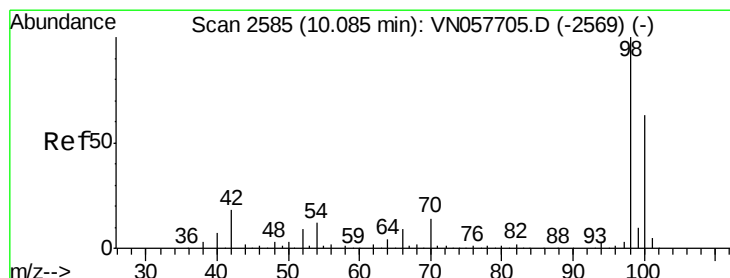
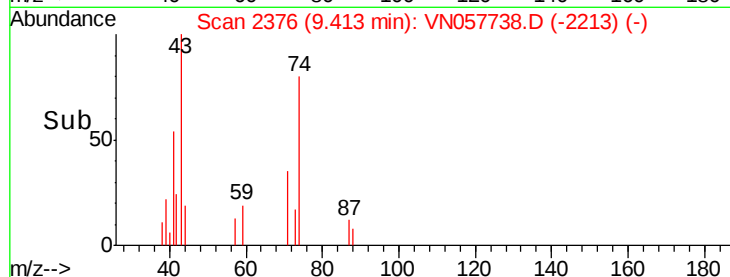
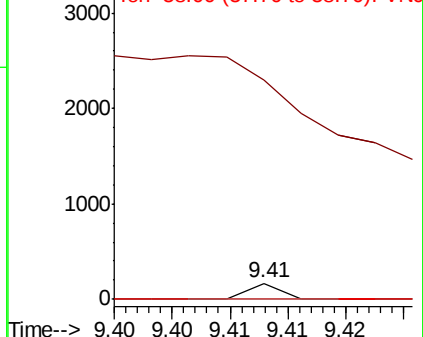
#49
1,4-Dioxane
Concen: 0.652 ug/l
RT: 9.41 min Scan# 2376
Delta R.T. 0.23 min
Lab File: VN057738.D
Acq: 7 Sep 2019 00:50

Instrument :
MSVOA_N
ClientSampleId :
T12-A1-(3.5)

Tgt Ion: 88 Resp: 32
Ion Ratio Lower Upper
88 100
43 0.0 35.4 53.2#
58 0.0 61.5 92.3#

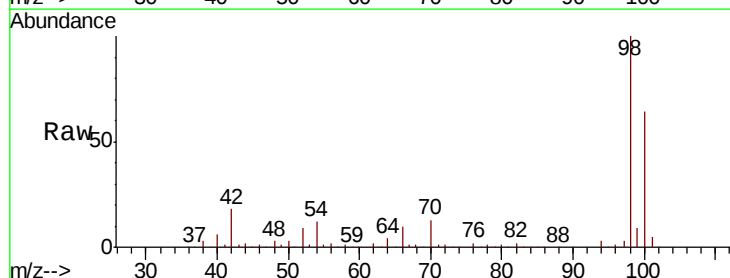


Abundance Ion 88.00 (87.70 to 88.70): VN0
Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0

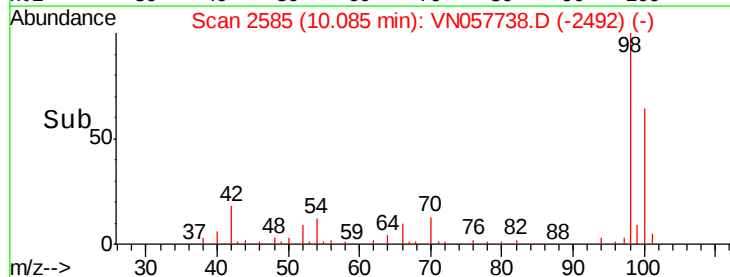
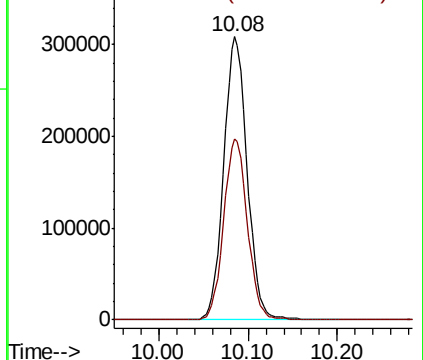


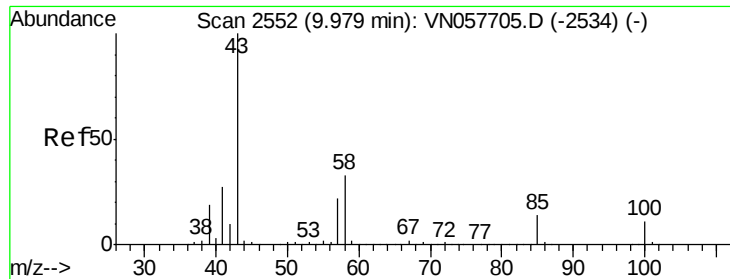
#50
Toluene-d8
Concen: 51.441 ug/l
RT: 10.08 min Scan# 2585
Delta R.T. 0.00 min
Lab File: VN057738.D
Acq: 7 Sep 2019 00:50

Tgt Ion: 98 Resp: 560372
Ion Ratio Lower Upper
98 100
100 64.9 50.7 76.1



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0

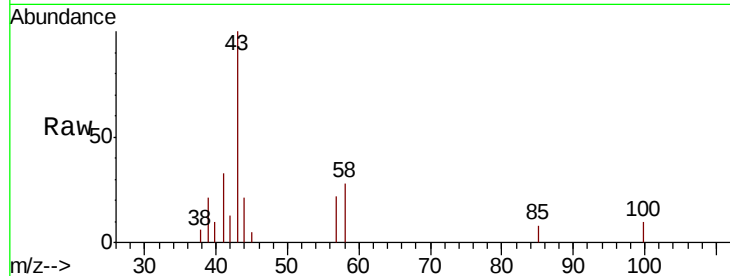




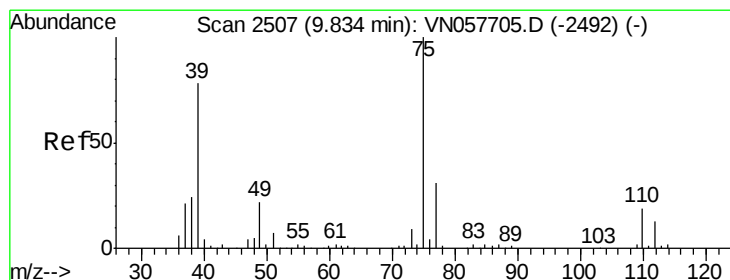
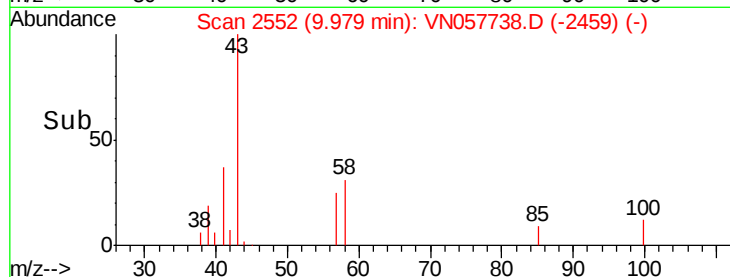
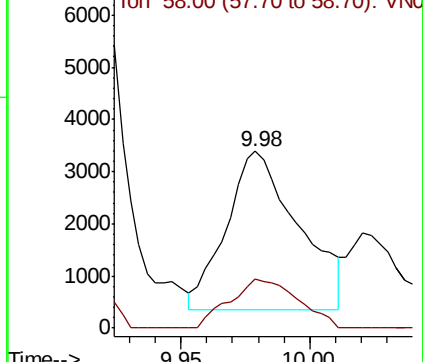
#51
4-Methyl-2-Pentanone
Concen: 1.305 ug/l
RT: 9.98 min Scan# 2552
Delta R.T. 0.00 min
Lab File: VN057738.D
Acq: 7 Sep 2019 00:50

Instrument :
MSVOA_N
ClientSampled :
T12-A1-(3.5)

Tgt Ion: 43 Resp: 5938
Ion Ratio Lower Upper
43 100
58 29.4 25.8 38.8

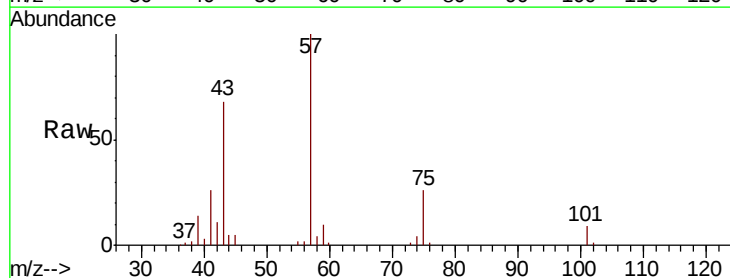


Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0

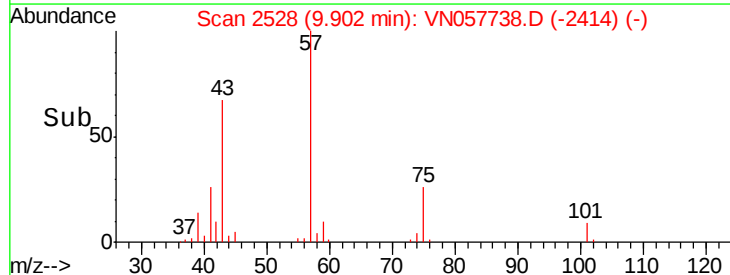
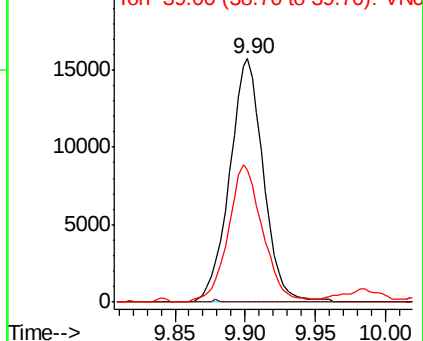


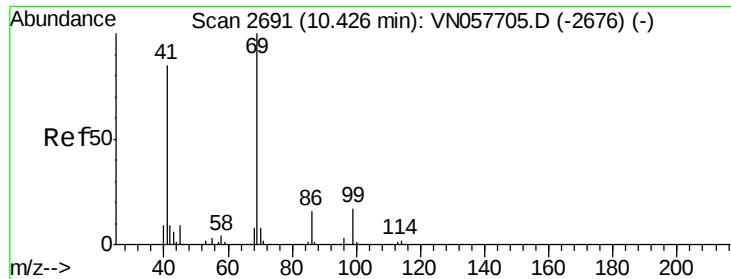
#54
cis-1,3-Dichloropropene
Concen: 5.242 ug/l
RT: 9.90 min Scan# 2528
Delta R.T. 0.07 min
Lab File: VN057738.D
Acq: 7 Sep 2019 00:50

Tgt Ion: 75 Resp: 26353
Ion Ratio Lower Upper
75 100
77 0.0 25.1 37.7#
39 54.5 62.4 93.6#



Abundance Ion 74.90 (74.60 to 75.60): VN0
Ion 76.90 (76.60 to 77.60): VN0
Ion 39.00 (38.70 to 39.70): VN0





#56

Ethyl methacrylate

Concen: 0.257 ug/l

RT: 10.54 min Scan# 2726

Delta R.T. 0.11 min

Lab File: VN057738.D

Acq: 7 Sep 2019 00:50

Instrument :

MSVOA_N

ClientSampleId :

T12-A1-(3.5)

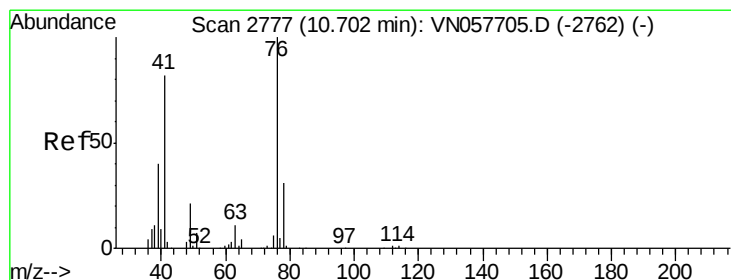
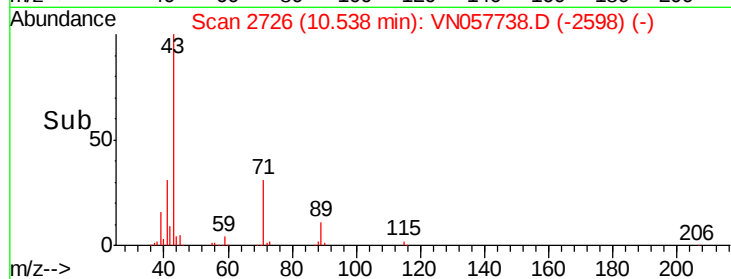
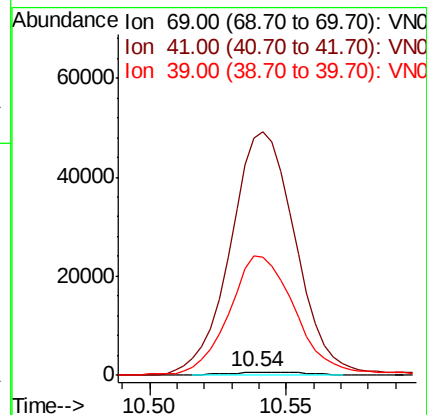
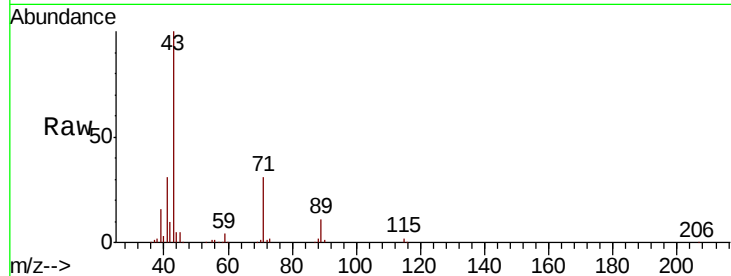
Tgt Ion: 69 Resp: 1216

Ion Ratio Lower Upper

69 100

41 6732.7 69.0 103.4#

39 3402.7 49.2 73.8#



#57

1,3-Dichloropropane

Concen: 0.696 ug/l

RT: 10.76 min Scan# 2795

Delta R.T. 0.06 min

Lab File: VN057738.D

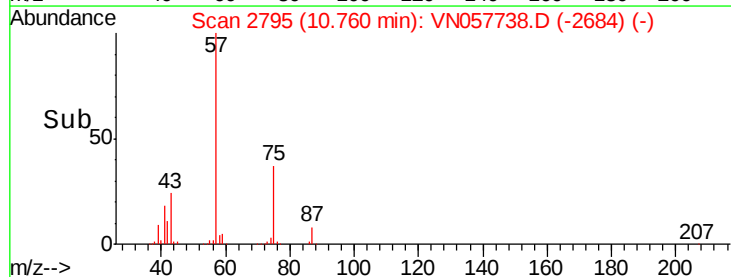
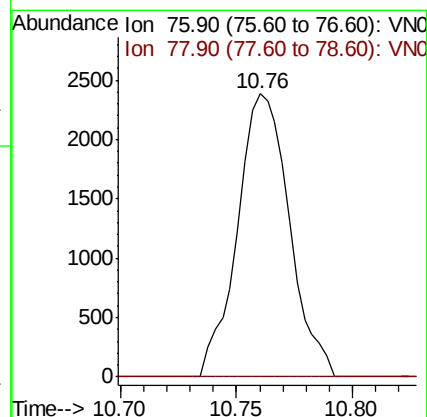
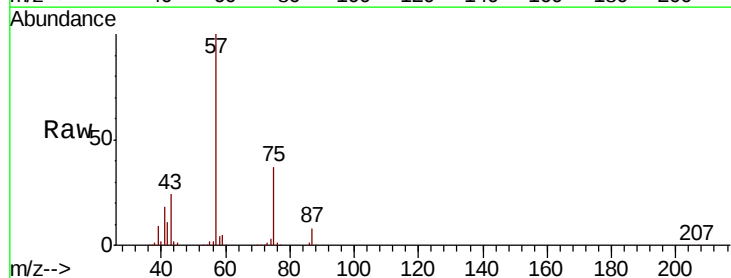
Acq: 7 Sep 2019 00:50

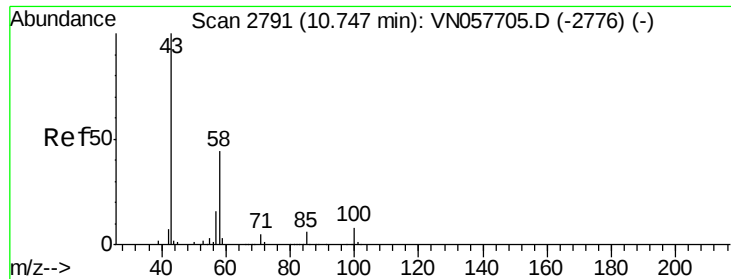
Tgt Ion: 76 Resp: 3708

Ion Ratio Lower Upper

76 100

78 0.0 25.5 38.3#

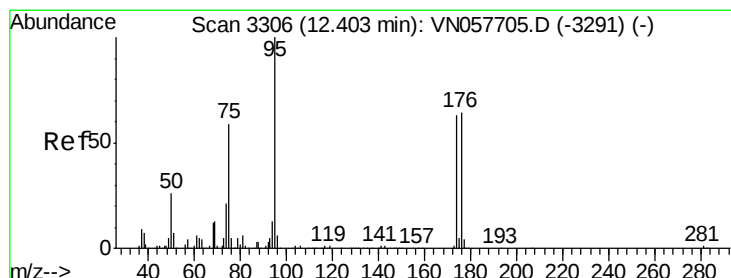
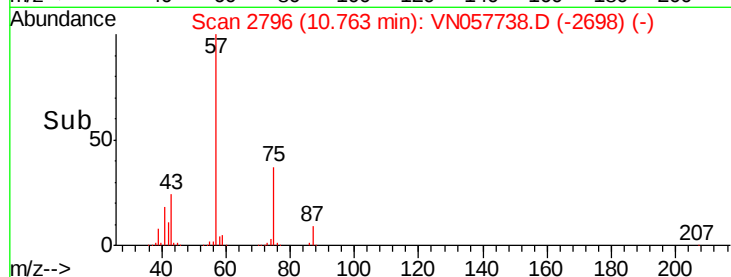
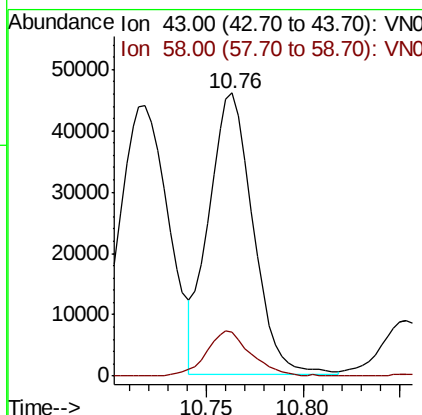
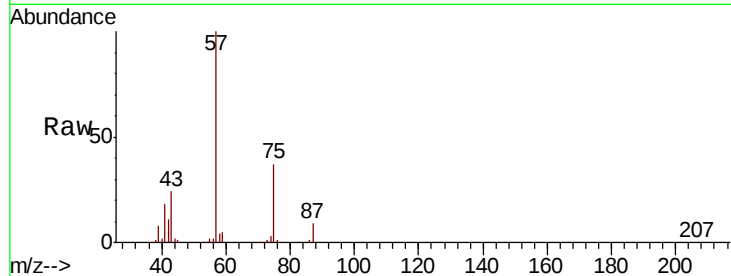




#59
2-Hexanone
Concen: 22.748 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.02 min
Lab File: VN057738.D
Acq: 7 Sep 2019 00:50

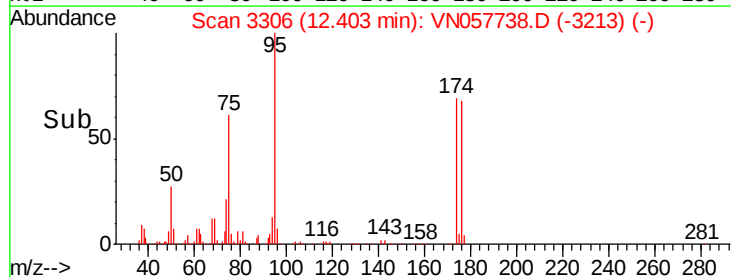
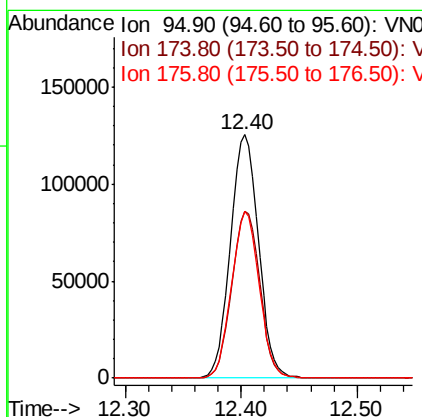
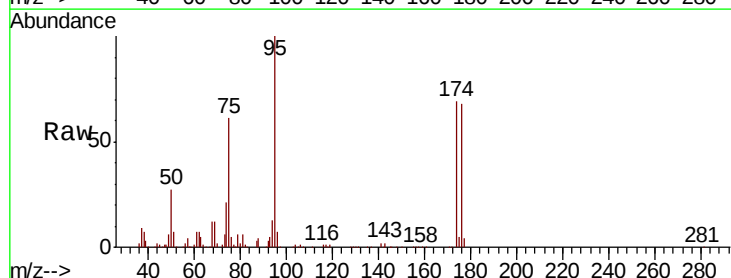
Instrument :
MSVOA_N
ClientSampleId :
T12-A1-(3.5)

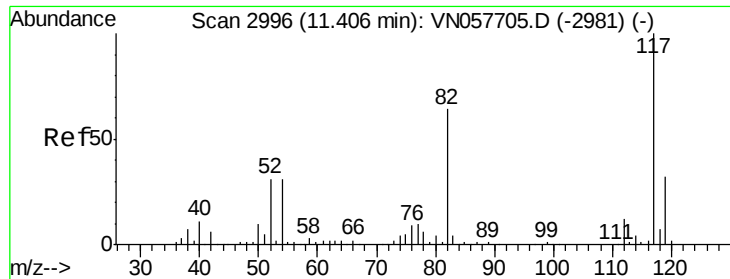
Tgt Ion: 43 Resp: 73012
Ion Ratio Lower Upper
43 100
58 16.3 22.1 66.5#



#62
4-Bromofluorobenzene
Concen: 46.377 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN057738.D
Acq: 7 Sep 2019 00:50

Tgt Ion: 95 Resp: 209839
Ion Ratio Lower Upper
95 100
174 68.5 0.0 128.0
176 67.2 0.0 128.0

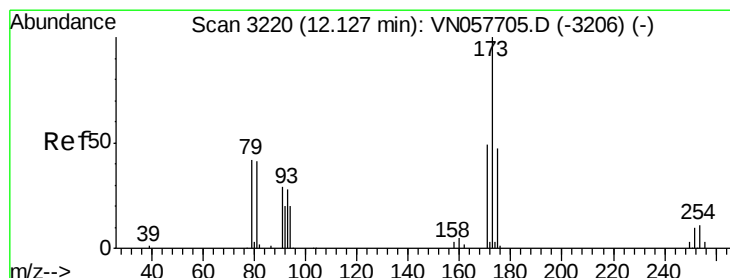
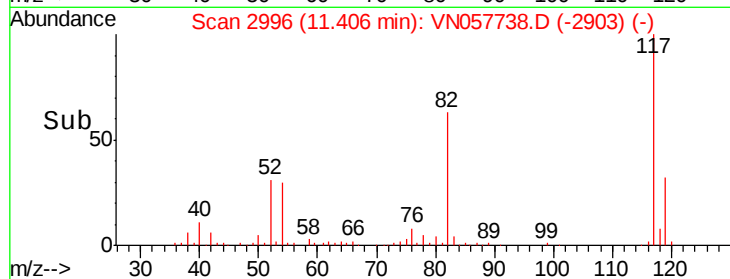
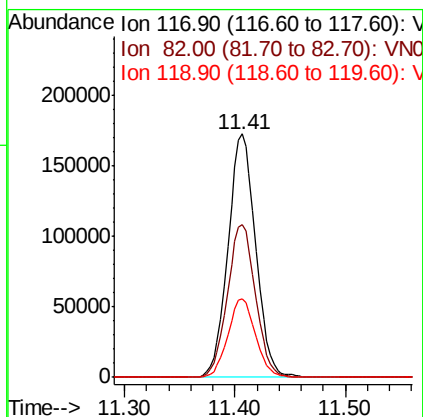
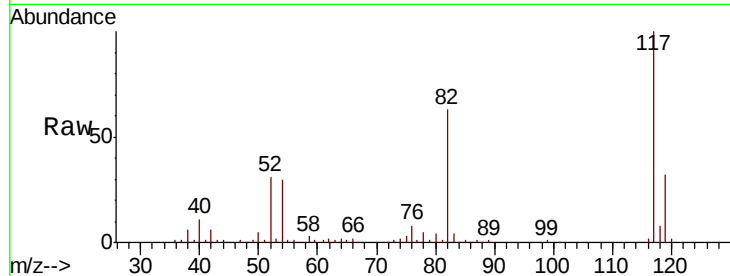




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN057738.D
Acq: 7 Sep 2019 00:50

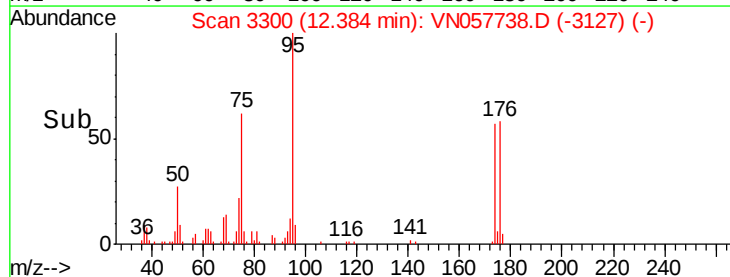
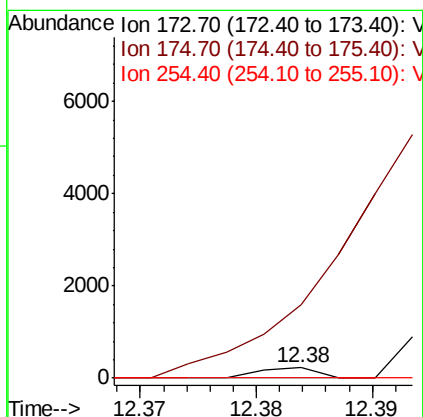
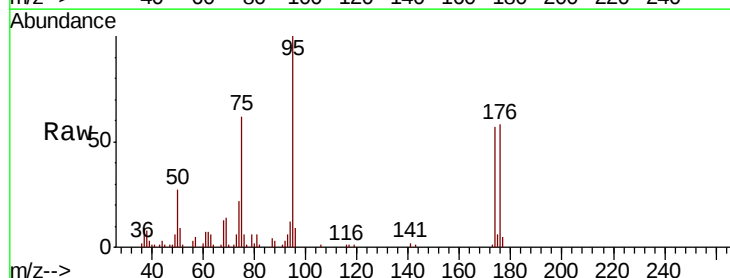
Instrument :
MSVOA_N
ClientSampled :
T12-A1-(3.5)

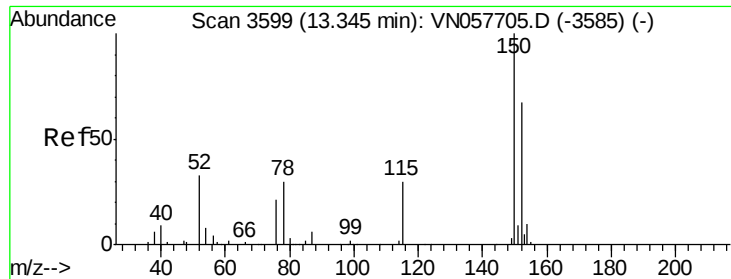
Tgt Ion:117 Resp: 300299
Ion Ratio Lower Upper
117 100
82 62.9 51.4 77.0
119 32.4 25.4 38.2



#71
Bromoform
Concen: 3.278 ug/l
RT: 12.38 min Scan# 3300
Delta R.T. 0.26 min
Lab File: VN057738.D
Acq: 7 Sep 2019 00:50

Tgt Ion:173 Resp: 78
Ion Ratio Lower Upper
173 100
175 0.0 24.6 73.8#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3600

Delta R.T. 0.00 min

Lab File: VN057738.D

Acq: 7 Sep 2019 00:50

Instrument :

MSVOA_N

ClientSampleId :

T12-A1-(3.5)

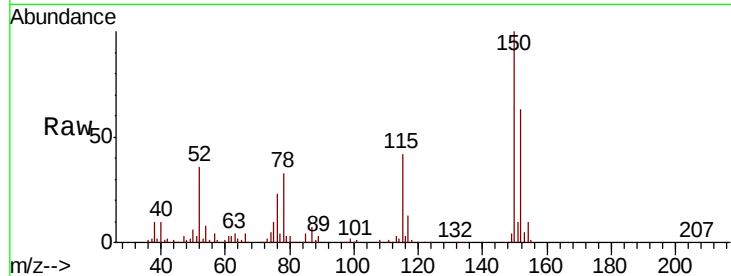
Tgt Ion:152 Resp: 152191

Ion Ratio Lower Upper

152 100

115 64.0 33.8 101.3

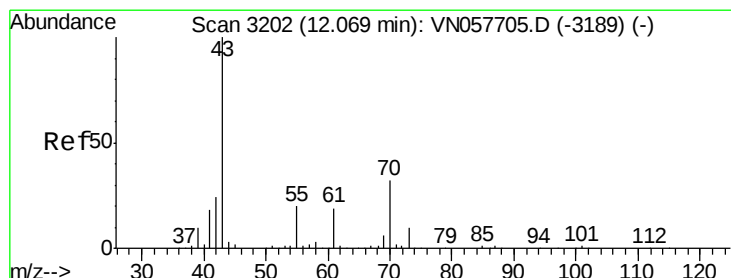
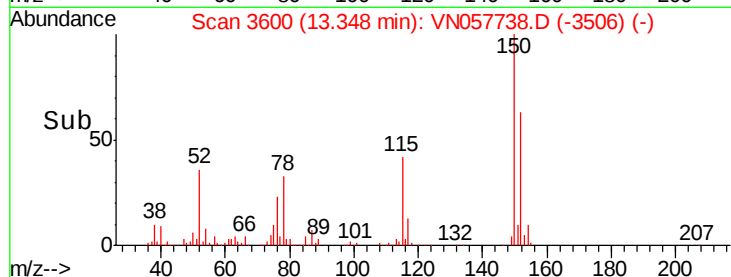
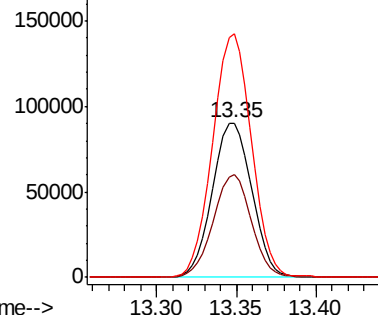
150 155.0 0.0 345.4



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: 0.317 ug/l

RT: 12.03 min Scan# 3191

Delta R.T. -0.04 min

Lab File: VN057738.D

Acq: 7 Sep 2019 00:50

Tgt Ion: 43 Resp: 2129

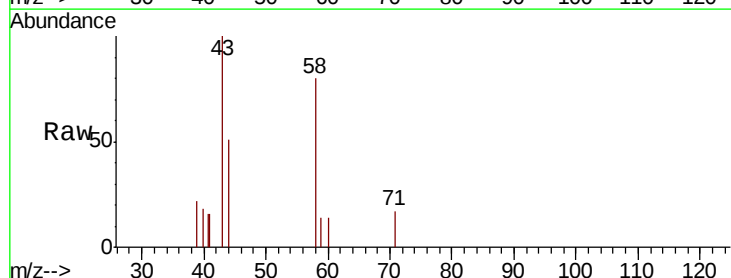
Ion Ratio Lower Upper

43 100

70 0.0 26.1 39.1#

55 5.4 16.3 24.5#

61 0.0 15.0 22.4#

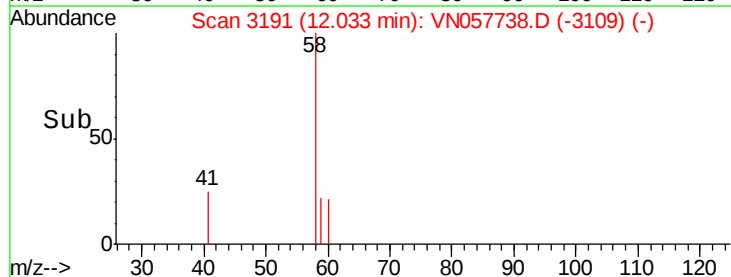
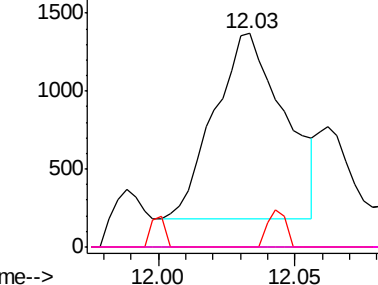


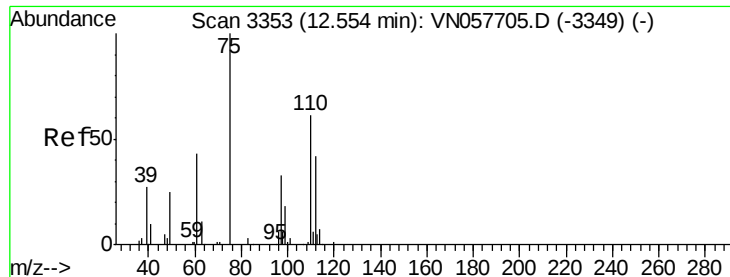
Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 70.00 (69.70 to 70.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

Ion 61.00 (60.70 to 61.70): VNO





#76

1,2,3-Trichloropropane

Concen: 36.228 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN057738.D

Acq: 7 Sep 2019 00:50

Instrument :

MSVOA_N

ClientSampleId :

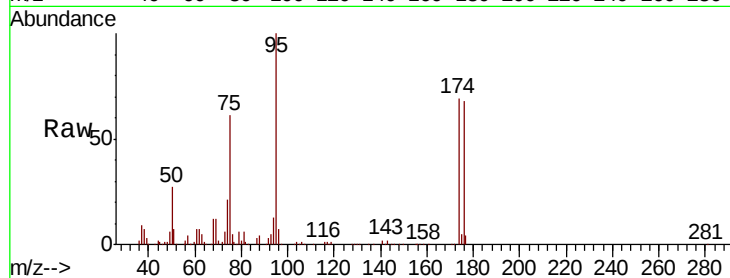
T12-A1-(3.5)

Tgt Ion: 75 Resp: 126613

Ion Ratio Lower Upper

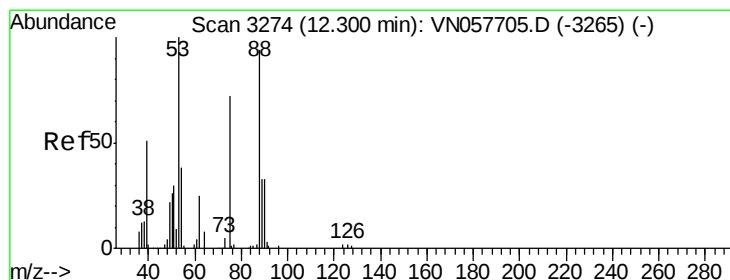
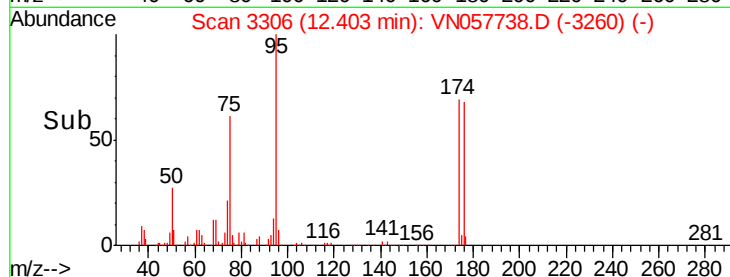
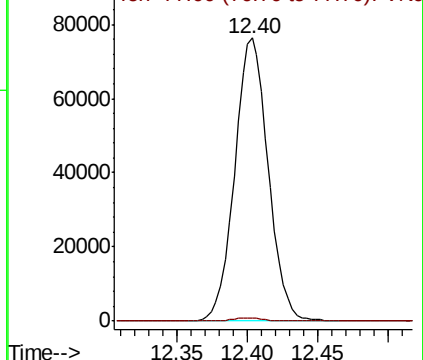
75 100

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: 112.670 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN057738.D

Acq: 7 Sep 2019 00:50

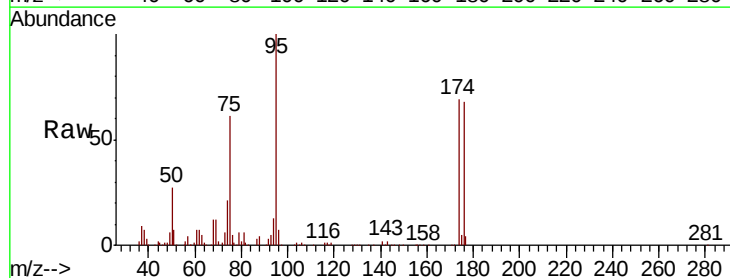
Tgt Ion: 75 Resp: 126613

Ion Ratio Lower Upper

75 100

53 0.0 107.0 160.6#

89 0.1 36.5 54.7#



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

