

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN091419\
 Data File : VN058045.D
 Acq On : 14 Sep 2019 1:59
 Operator : JC/SP
 Sample : K4694-35
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 45 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 T2-3-(1.5)

Quant Time: Sep 14 03:42:50 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	309906	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	536358	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	485726	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	245595	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	334751	53.33	ug/l	0.00
Spiked Amount 50.000			Recovery =	106.66%		
35) Dibromofluoromethane	7.58	113	230115	46.48	ug/l	0.00
Spiked Amount 50.000			Recovery =	92.96%		
50) Toluene-d8	10.08	98	871288	45.33	ug/l	0.00
Spiked Amount 50.000			Recovery =	90.66%		
62) 4-Bromofluorobenzene	12.40	95	301662	41.19	ug/l	0.00
Spiked Amount 50.000			Recovery =	82.38%		

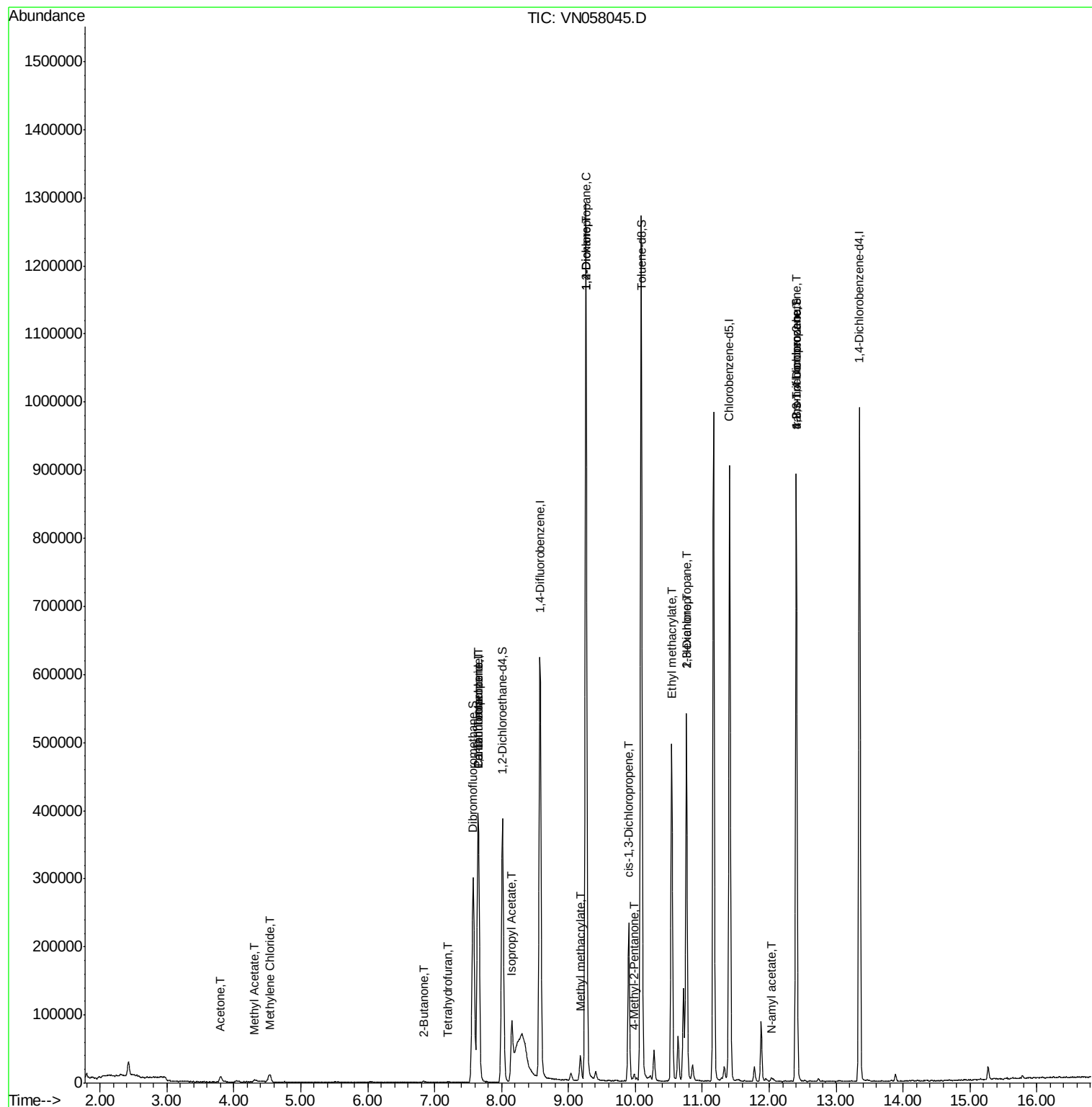
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.55	94	274	Below Cal	#	2
16) Acetone	3.80	43	14870	7.227	ug/l	94
18) Methyl Acetate	4.31	43	2621	0.478	ug/l	93
20) Methylene Chloride	4.53	84	8252	0.898	ug/l #	84
25) 2-Butanone	6.84	43	2874	0.965	ug/l #	88
29) Tetrahydrofuran	7.20	42	513	0.280	ug/l #	34
31) Cyclohexane	7.65	56	7907	Below Cal	#	17
36) 1,1-Dichloropropene	7.65	75	26857	4.318	ug/l #	51
38) Carbon Tetrachloride	7.65	117	31048	5.467	ug/l #	16
43) Isopropyl Acetate	8.15	43	116555	10.784	ug/l #	83
45) 1,2-Dichloropropane	9.26	63	1399	0.257	ug/l #	44
48) Methyl methacrylate	9.17	41	4392	0.801	ug/l #	13
49) 1,4-Dioxane	9.25	88	64	0.690	ug/l #	23
51) 4-Methyl-2-Pentanone	9.98	43	7111	1.112	ug/l	96
54) cis-1,3-Dichloropropene	9.90	75	37552	4.912	ug/l #	69
56) Ethyl methacrylate	10.54	69	2018	0.268	ug/l #	1
57) 1,3-Dichloropropane	10.77	76	5233	0.608	ug/l #	43
59) 2-Hexanone	10.76	43	83205	17.357	ug/l #	53
74) N-amyl acetate	12.03	43	5156	0.622	ug/l #	48
76) 1,2,3-Trichloropropane	12.40	75	165767	29.837	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	165767	104.996	ug/l #	6
95) Naphthalene	15.13	128	316	Below Cal	#	69

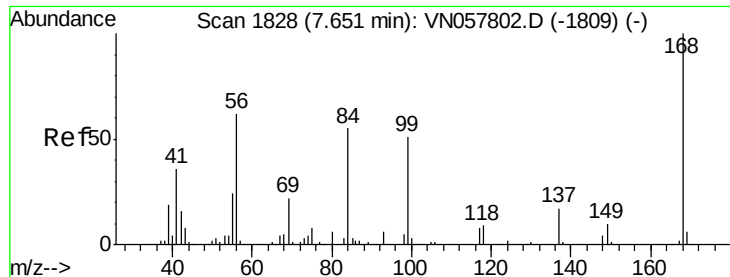
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN058045.D

Acq: 14 Sep 2019 1:59

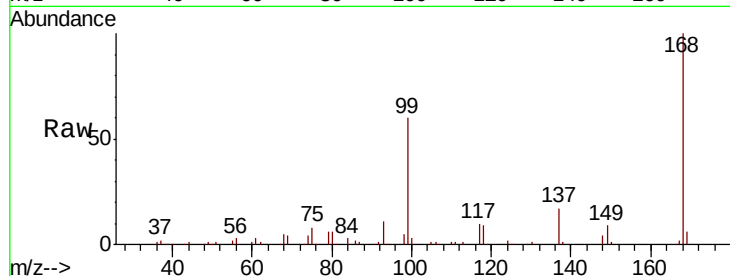
Instrument :
MSVOA_N
ClientSampleId :
T2-3-(1.5)

Tgt Ion: 168 Resp: 309906

Ion Ratio Lower Upper

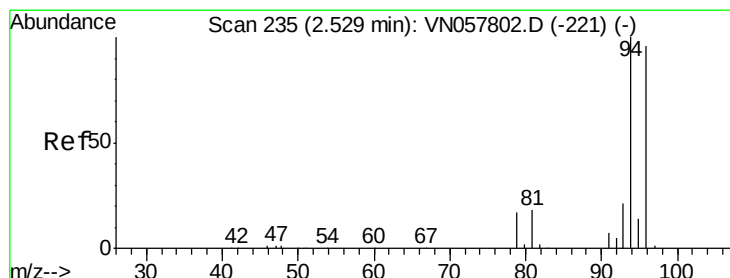
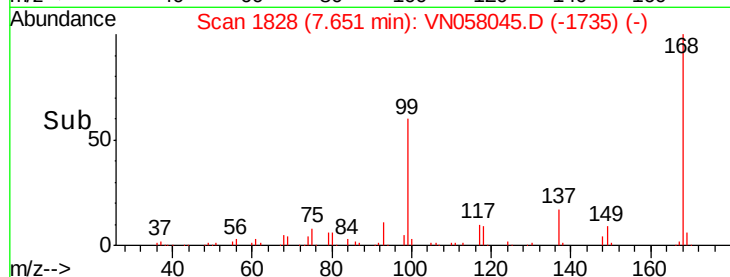
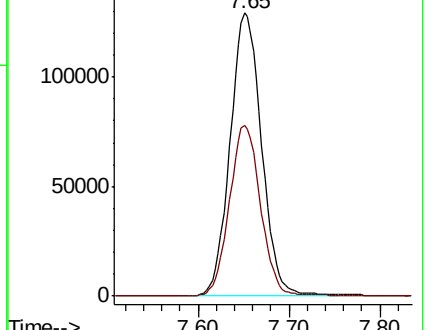
168 100

99 60.5 48.0 72.0



Abundance Ion 167.90 (167.60 to 168.60): VN057802.D (-1809) (-)

Ion 98.90 (98.60 to 99.60): VN057802.D (-1809) (-)



#5

Bromomethane

Concen: Below Cal

RT: 2.55 min Scan# 242

Delta R.T. 0.02 min

Lab File: VN058045.D

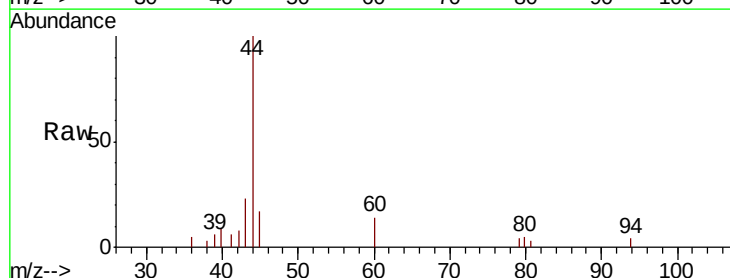
Acq: 14 Sep 2019 1:59

Tgt Ion: 94 Resp: 274

Ion Ratio Lower Upper

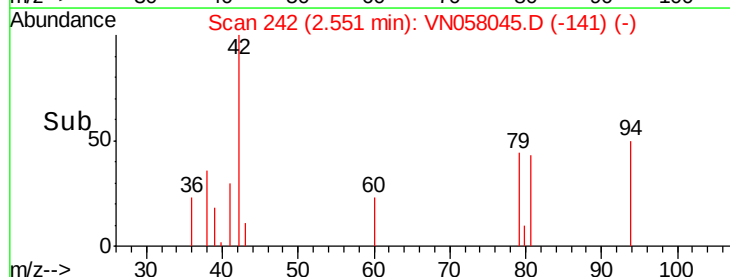
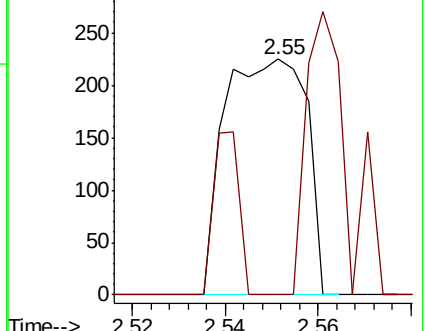
94 100

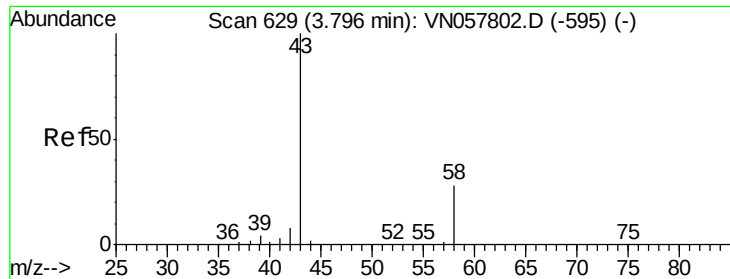
96 0.0 77.0 115.4#



Abundance Ion 93.90 (93.60 to 94.60): VN057802.D (-221) (-)

Ion 95.90 (95.60 to 96.60): VN057802.D (-221) (-)





#16

Acetone

Concen: 7.227 ug/l

RT: 3.80 min Scan# 629

Delta R.T. 0.00 min

Lab File: VN058045.D

Acq: 14 Sep 2019 1:59

Instrument :

MSVOA_N

ClientSampleId :

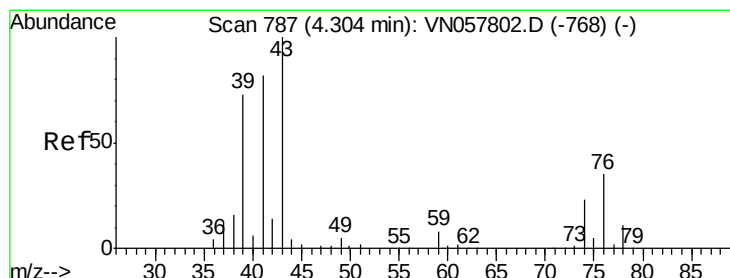
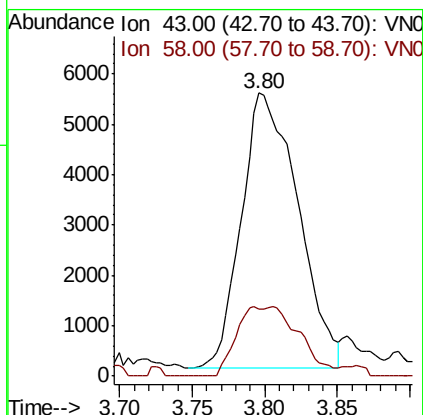
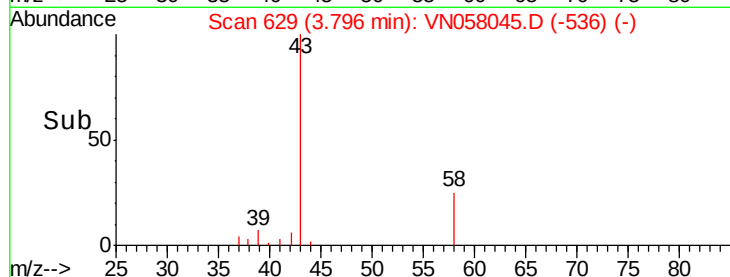
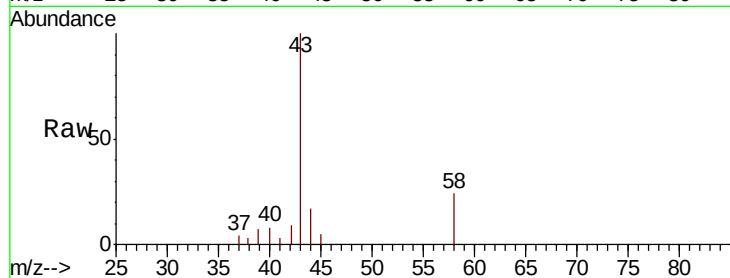
T2-3-(1.5)

Tgt Ion: 43 Resp: 14870

Ion Ratio Lower Upper

43 100

58 24.4 22.2 33.2



#18

Methyl Acetate

Concen: 0.478 ug/l

RT: 4.31 min Scan# 789

Delta R.T. 0.01 min

Lab File: VN058045.D

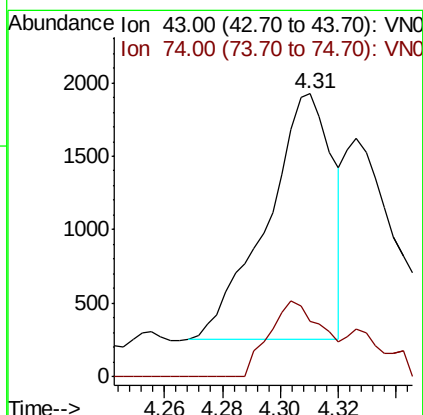
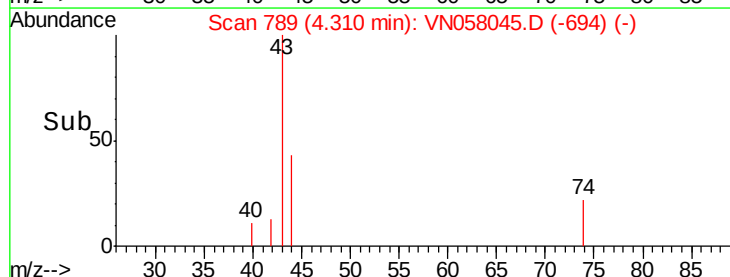
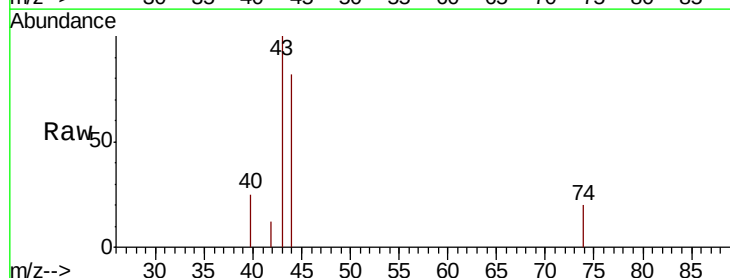
Acq: 14 Sep 2019 1:59

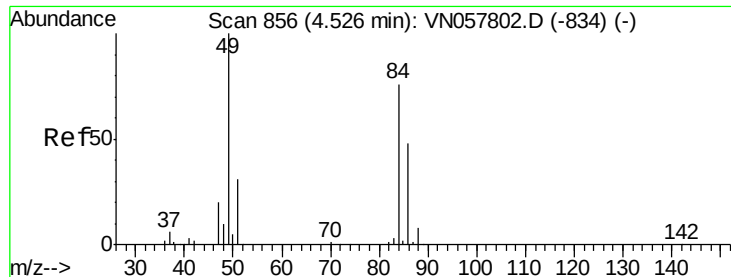
Tgt Ion: 43 Resp: 2621

Ion Ratio Lower Upper

43 100

74 25.5 17.9 26.9

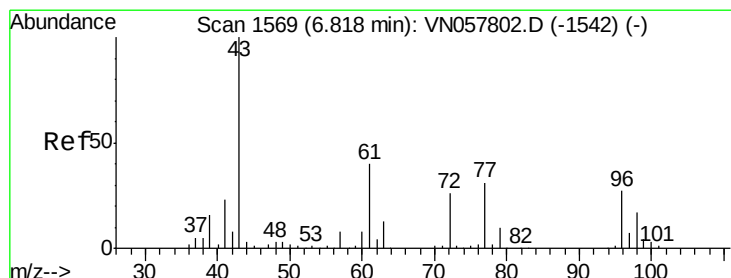
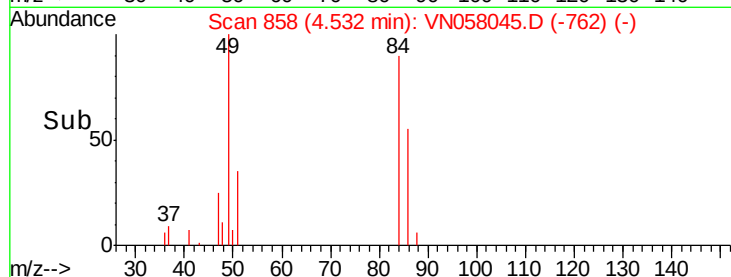
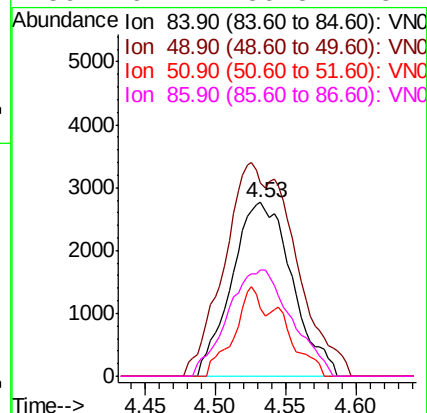
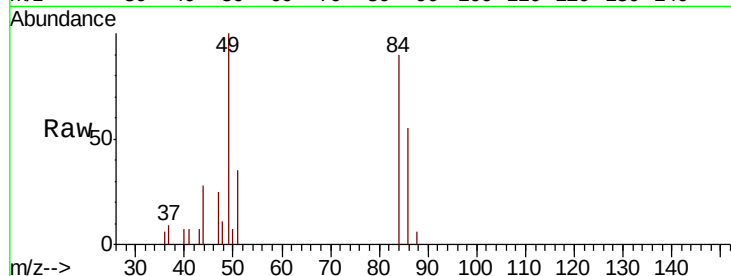




#20
Methylene Chloride
Concen: 0.898 ug/l
RT: 4.53 min Scan# 858
Delta R.T. 0.01 min
Lab File: VN058045.D
Acq: 14 Sep 2019 1:59

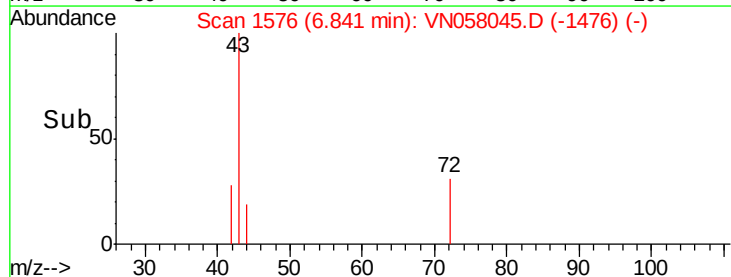
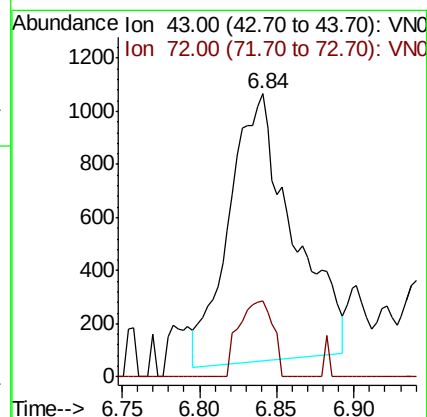
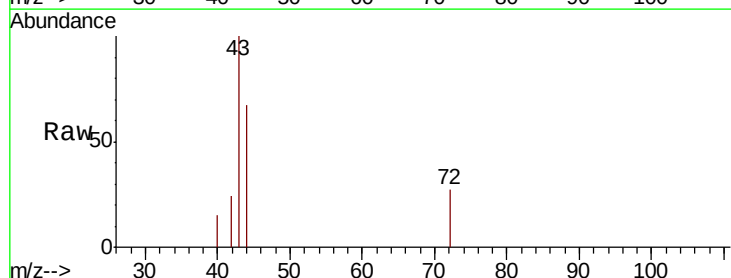
Instrument :
MSVOA_N
ClientSampled :
T2-3-(1.5)

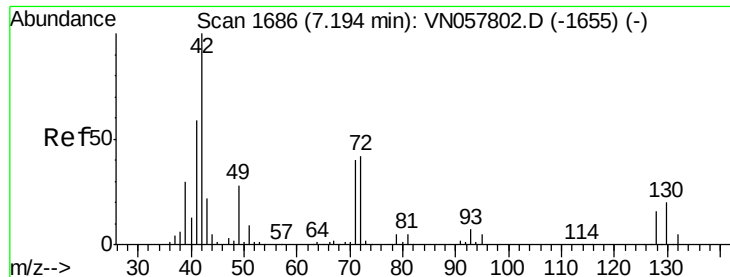
Tgt Ion: 84 Resp: 8252
Ion Ratio Lower Upper
84 100
49 100.3 104.8 157.2#
51 38.7 33.0 49.4
86 61.2 50.5 75.7



#25
2-Butanone
Concen: 0.965 ug/l
RT: 6.84 min Scan# 1576
Delta R.T. 0.02 min
Lab File: VN058045.D
Acq: 14 Sep 2019 1:59

Tgt Ion: 43 Resp: 2874
Ion Ratio Lower Upper
43 100
72 31.9 20.6 30.8#





#29

Tetrahydrofuran

Concen: 0.280 ug/l

RT: 7.20 min Scan# 1688

Delta R.T. 0.01 min

Lab File: VN058045.D

Acq: 14 Sep 2019 1:59

Instrument :

MSVOA_N

ClientSampled :

T2-3-(1.5)

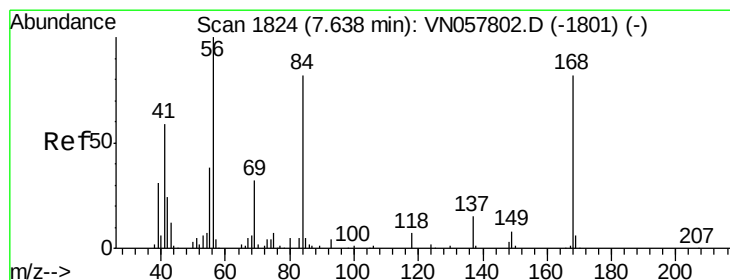
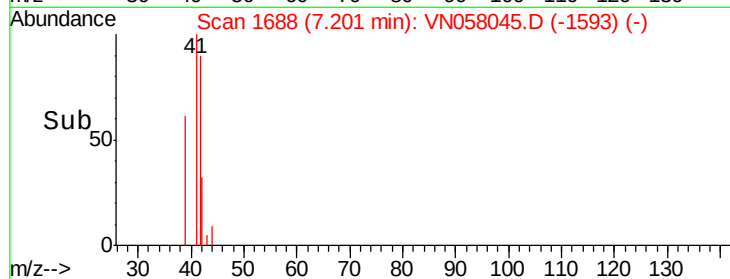
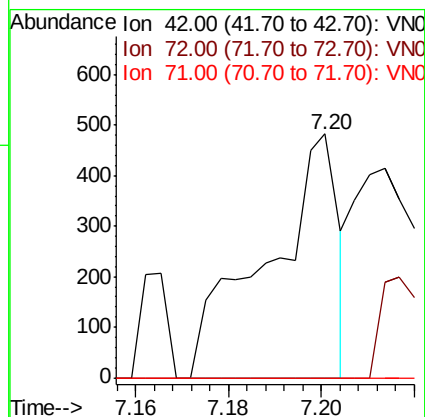
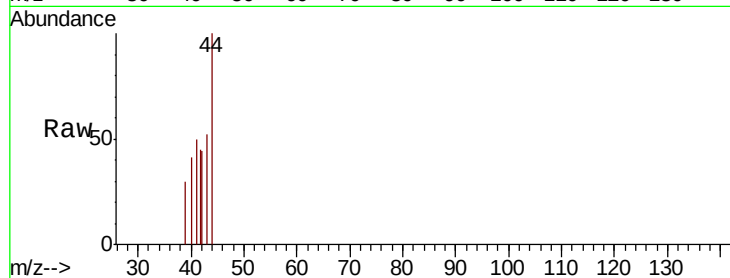
Tgt Ion: 42 Resp: 513

Ion Ratio Lower Upper

42 100

72 0.0 33.7 50.5#

71 0.0 31.9 47.9#



#31

Cyclohexane

Concen: Below Cal

RT: 7.65 min Scan# 1828

Delta R.T. 0.01 min

Lab File: VN058045.D

Acq: 14 Sep 2019 1:59

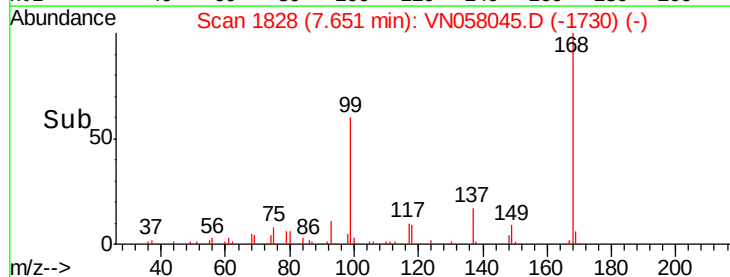
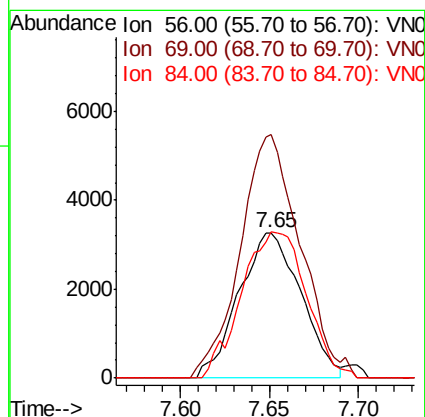
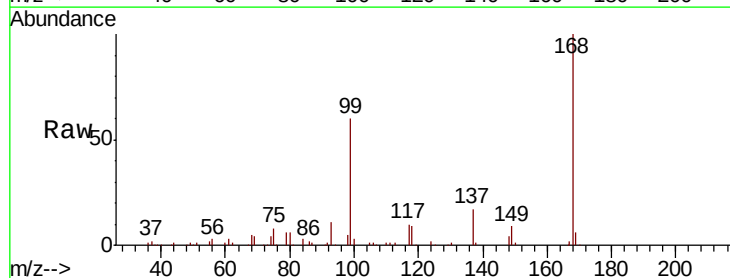
Tgt Ion: 56 Resp: 7907

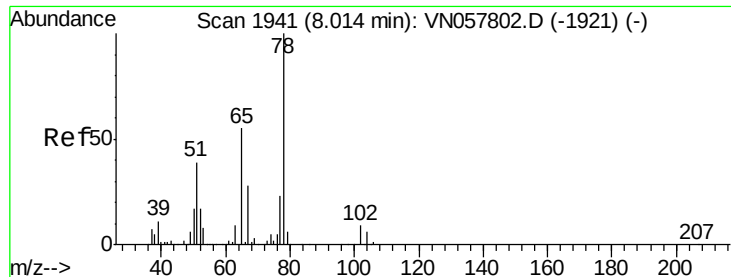
Ion Ratio Lower Upper

56 100

69 167.1 25.9 38.9#

84 100.4 65.6 98.4#

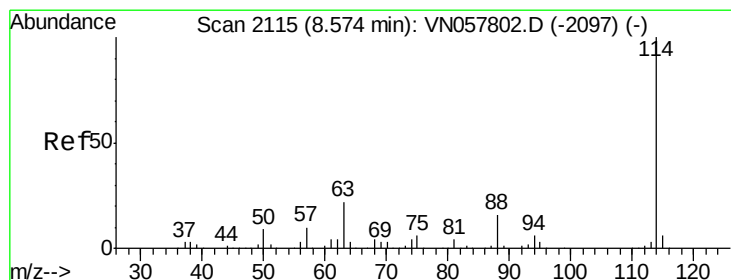
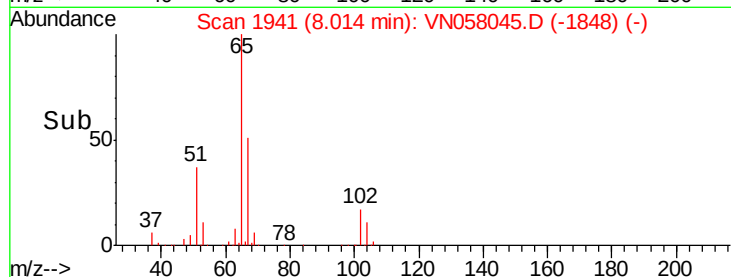
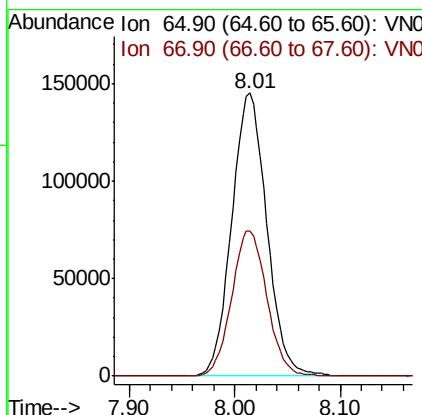
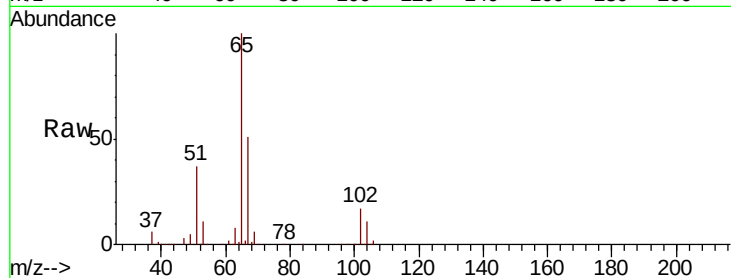




#33
 1,2-Dichloroethane-d4
 Concen: 53.331 ug/l
 RT: 8.01 min Scan# 1941
 Delta R.T. 0.00 min
 Lab File: VN058045.D
 Acq: 14 Sep 2019 1:59

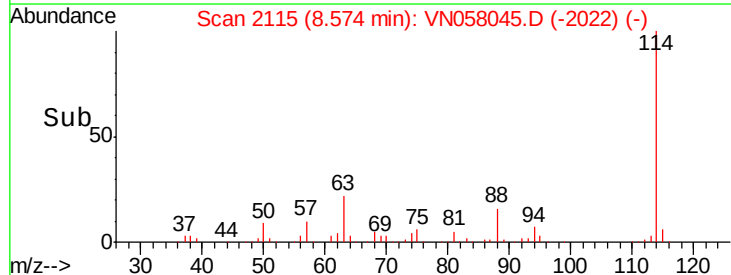
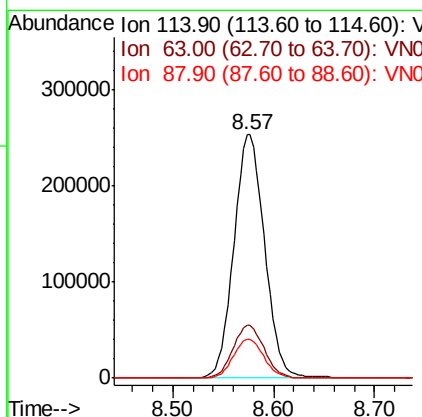
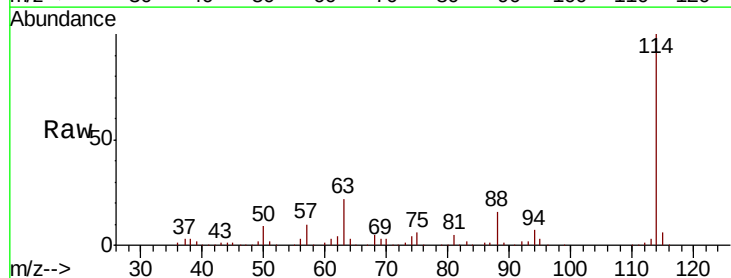
Instrument :
 MSVOA_N
 ClientSampleId :
 T2-3-(1.5)

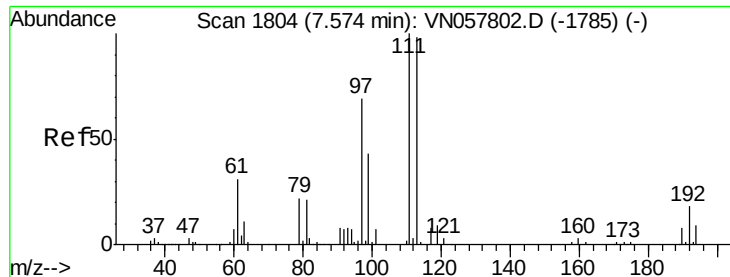
Tgt Ion: 65 Resp: 334751
 Ion Ratio Lower Upper
 65 100
 67 51.7 0.0 104.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. 0.00 min
 Lab File: VN058045.D
 Acq: 14 Sep 2019 1:59

Tgt Ion: 114 Resp: 536358
 Ion Ratio Lower Upper
 114 100
 63 21.6 0.0 44.0
 88 16.0 0.0 31.4

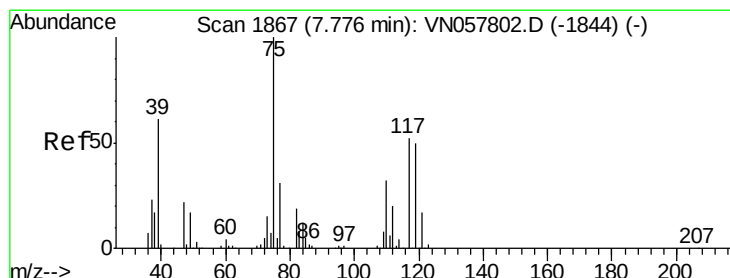
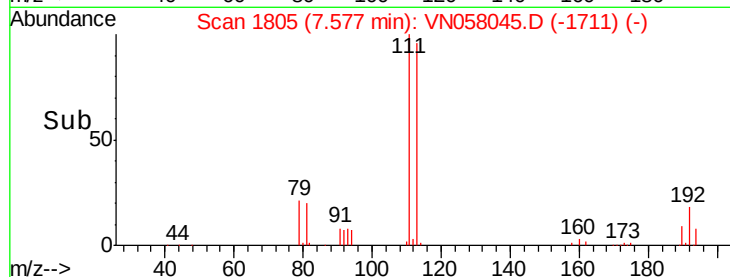
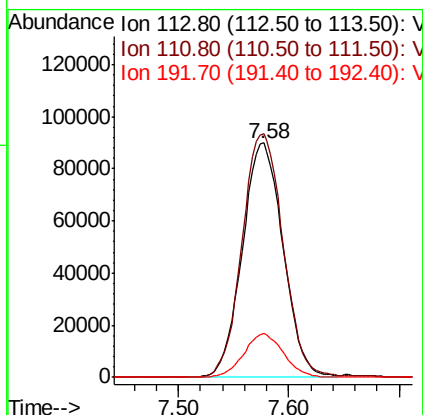
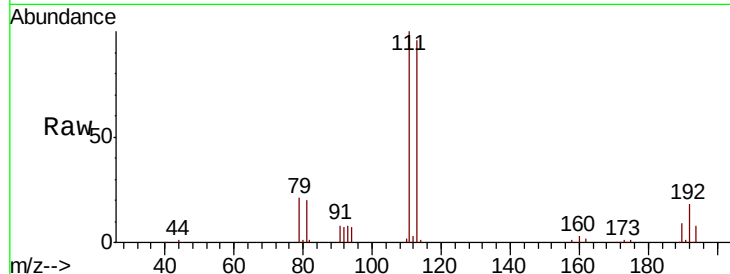




#35
 Dibromofluoromethane
 Concen: 46.484 ug/l
 RT: 7.58 min Scan# 1805
 Delta R.T. 0.00 min
 Lab File: VN058045.D
 Acq: 14 Sep 2019 1:59

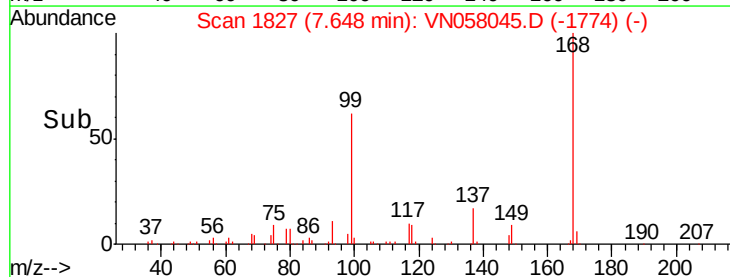
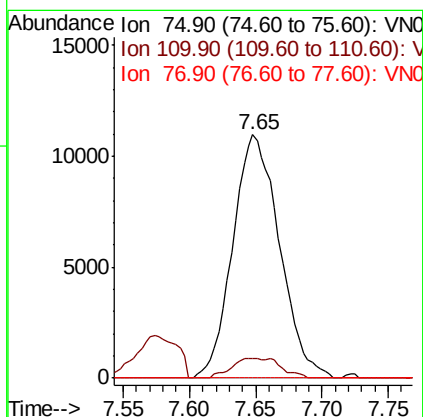
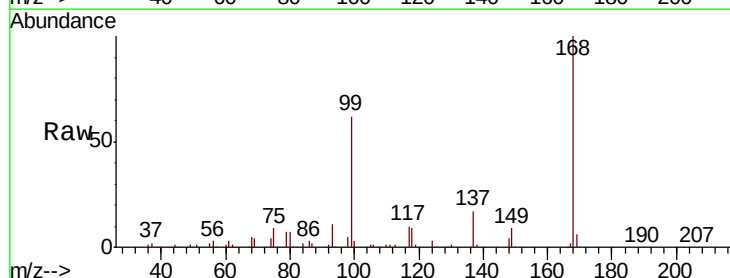
Instrument :
 MSVOA_N
 ClientSampleId :
 T2-3-(1.5)

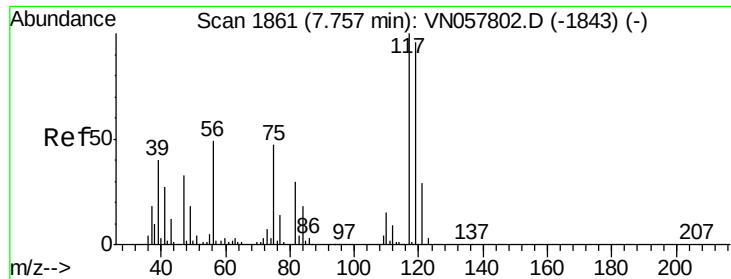
Tgt Ion	Ratio	Lower	Upper
113	100		
111	105.2	81.3	121.9
192	18.3	14.6	22.0



#36
 1,1-Dichloropropene
 Concen: 4.318 ug/l
 RT: 7.65 min Scan# 1827
 Delta R.T. -0.13 min
 Lab File: VN058045.D
 Acq: 14 Sep 2019 1:59

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.6	16.3	48.9#
77	0.0	25.0	37.4#





#38

Carbon Tetrachloride

Concen: 5.467 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.11 min

Lab File: VN058045.D

Acq: 14 Sep 2019 1:59

Instrument :

MSVOA_N

ClientSampled :

T2-3-(1.5)

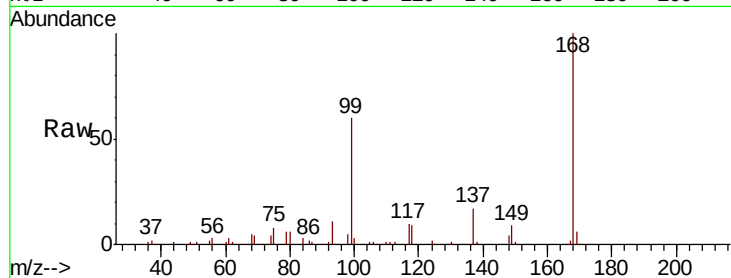
Tgt Ion:117 Resp: 31048

Ion Ratio Lower Upper

117 100

119 4.8 76.9 115.3#

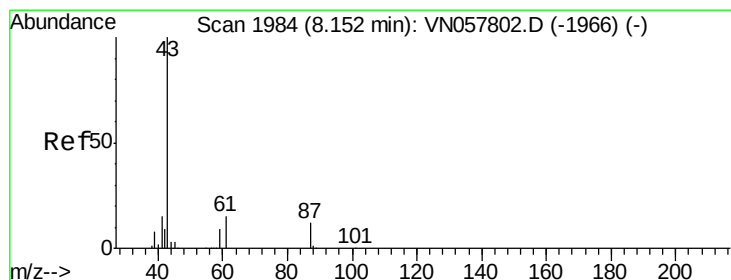
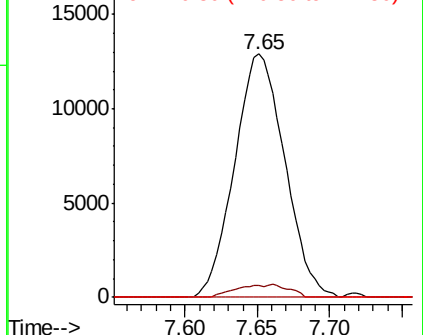
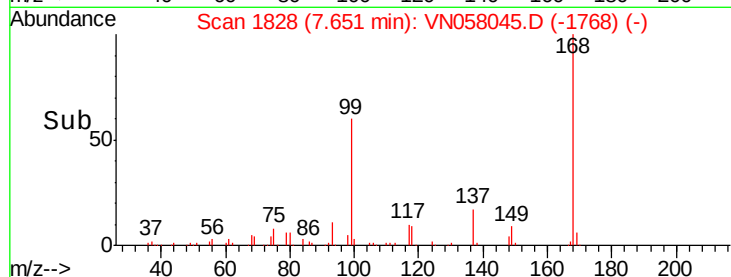
121 0.0 23.4 35.2#



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: 10.784 ug/l

RT: 8.15 min Scan# 1984

Delta R.T. 0.00 min

Lab File: VN058045.D

Acq: 14 Sep 2019 1:59

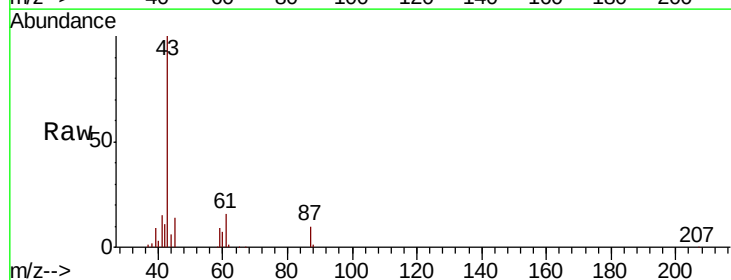
Tgt Ion: 43 Resp: 116555

Ion Ratio Lower Upper

43 100

61 14.3 20.1 30.1#

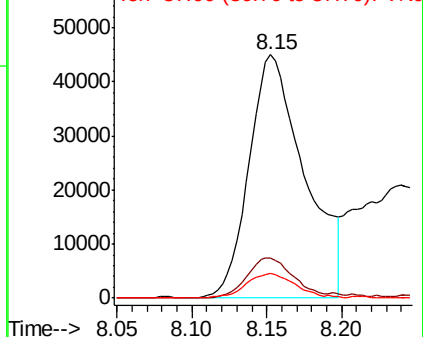
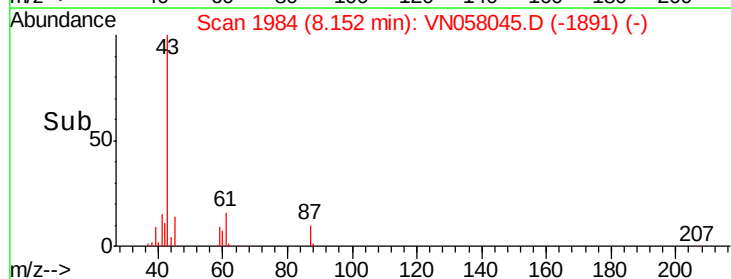
87 9.0 9.5 14.3#

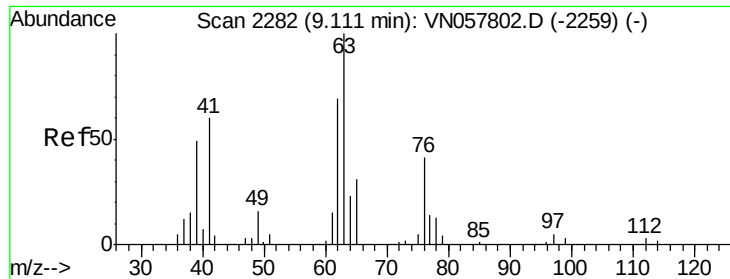


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

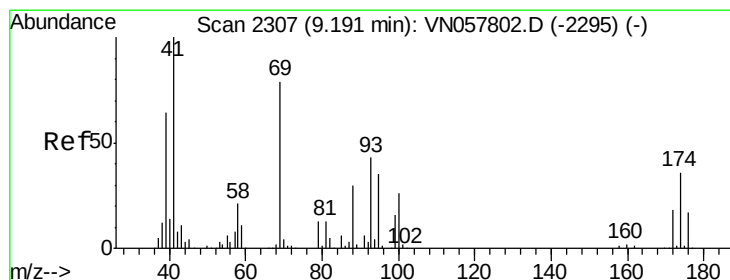
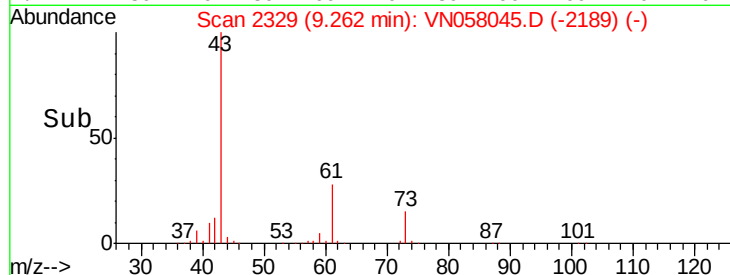
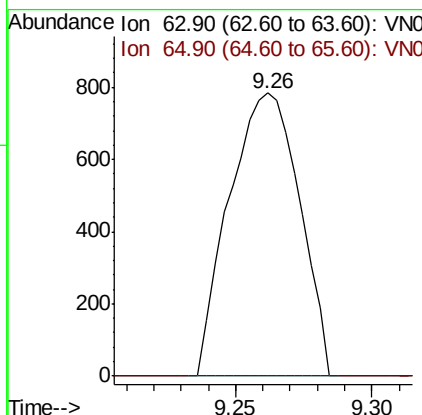
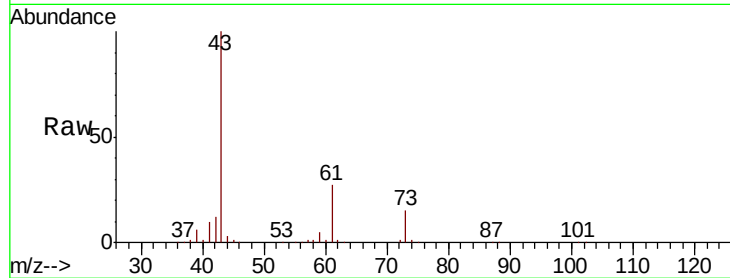




#45
 1,2-Dichloropropane
 Concen: 0.257 ug/l
 RT: 9.26 min Scan# 2329
 Delta R.T. 0.15 min
 Lab File: VN058045.D
 Acq: 14 Sep 2019 1:59

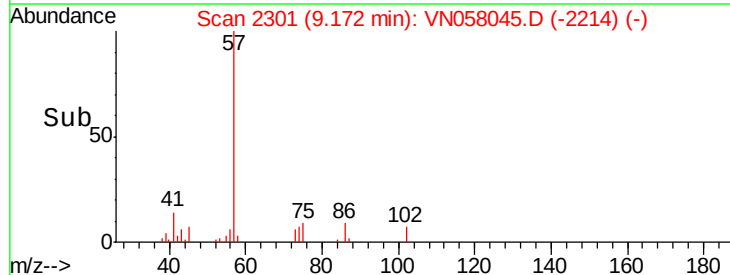
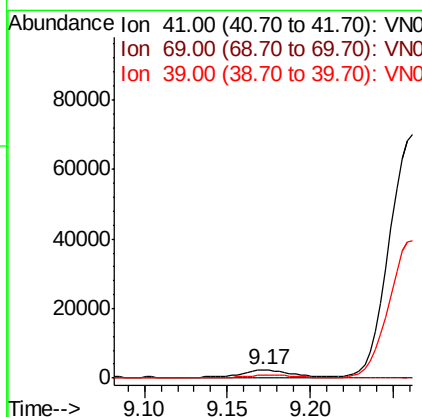
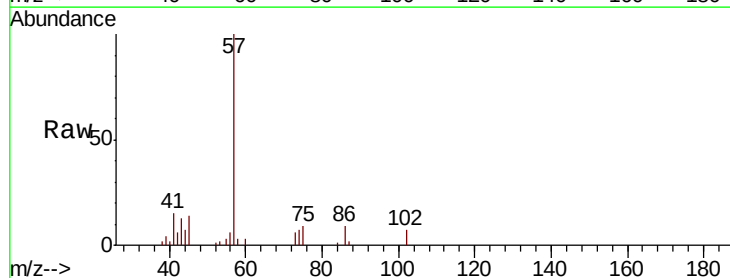
Instrument :
 MSVOA_N
 ClientSampleId :
 T2-3-(1.5)

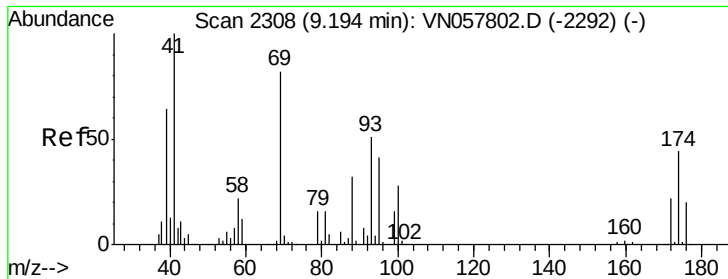
Tgt Ion: 63 Resp: 1399
 Ion Ratio Lower Upper
 63 100
 65 0.0 24.8 37.2#



#48
 Methyl methacrylate
 Concen: 0.801 ug/l
 RT: 9.17 min Scan# 2301
 Delta R.T. -0.02 min
 Lab File: VN058045.D
 Acq: 14 Sep 2019 1:59

Tgt Ion: 41 Resp: 4392
 Ion Ratio Lower Upper
 41 100
 69 0.0 62.7 94.1#
 39 0.0 52.7 79.1#

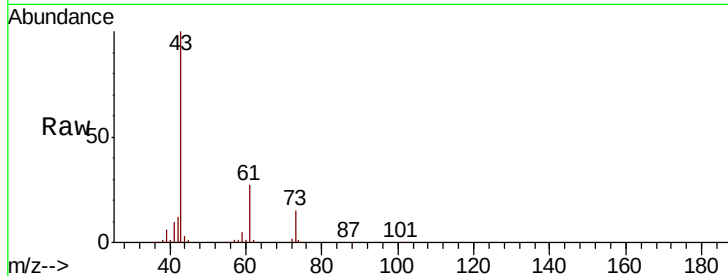




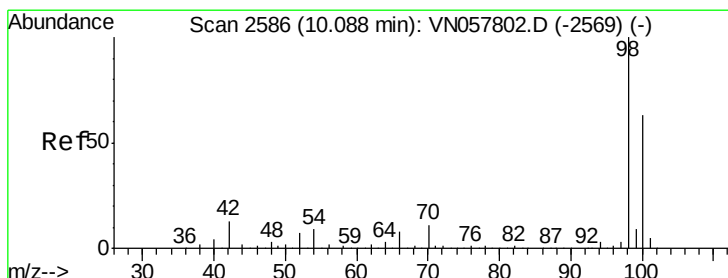
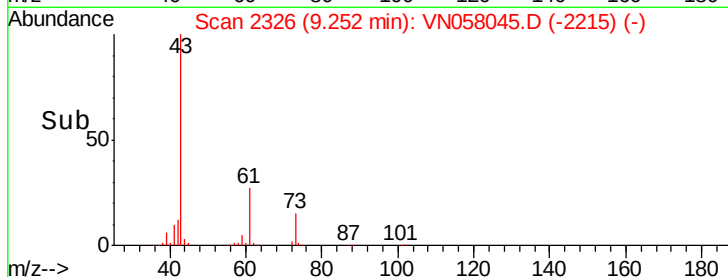
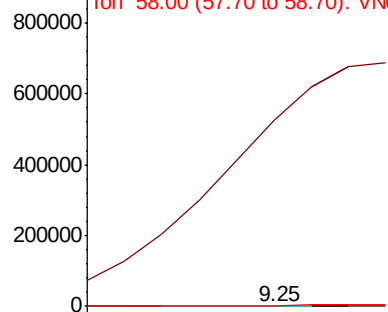
#49
1,4-Dioxane
Concen: 0.690 ug/l
RT: 9.25 min Scan# 2326
Delta R.T. 0.06 min
Lab File: VN058045.D
Acq: 14 Sep 2019 1:59

Instrument :
MSVOA_N
ClientSampleId :
T2-3-(1.5)

Tgt Ion: 88 Resp: 64
Ion Ratio Lower Upper
88 100
43 0.0 28.5 42.7#
58 0.0 55.8 83.6#

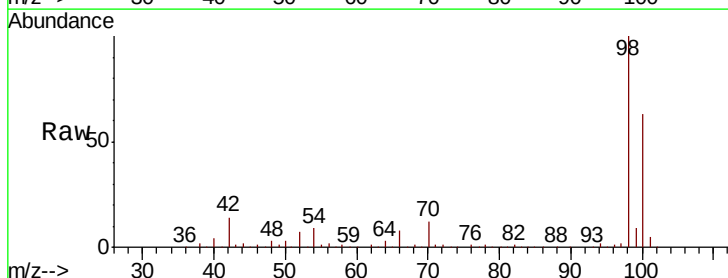


Abundance Ion 88.00 (87.70 to 88.70): VN0
Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0

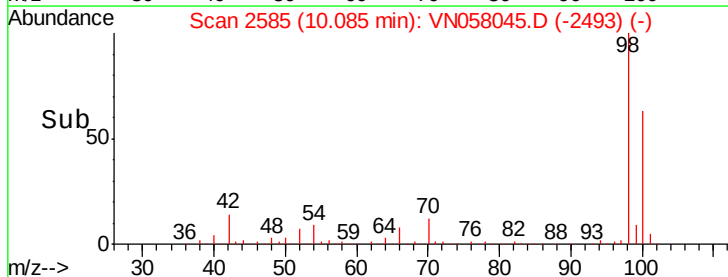
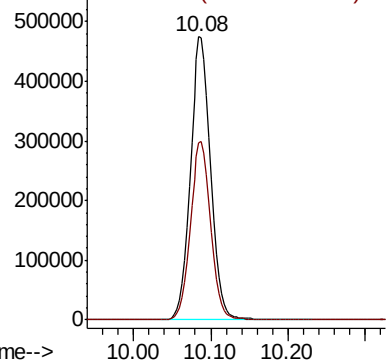


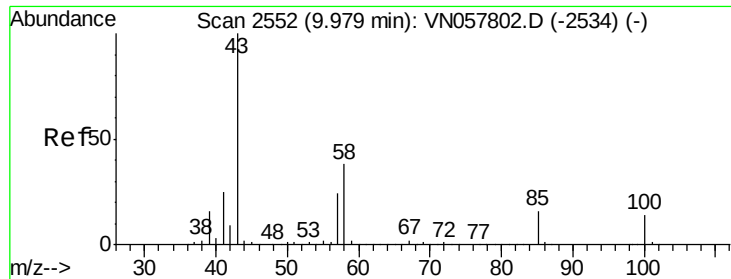
#50
Toluene-d8
Concen: 45.332 ug/l
RT: 10.08 min Scan# 2585
Delta R.T. -0.00 min
Lab File: VN058045.D
Acq: 14 Sep 2019 1:59

Tgt Ion: 98 Resp: 871288
Ion Ratio Lower Upper
98 100
100 63.1 50.3 75.5



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





#51

4-Methyl-2-Pentanone

Concen: 1.112 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. 0.00 min

Lab File: VN058045.D

Acq: 14 Sep 2019 1:59

Instrument :

MSVOA_N

ClientSampleId :

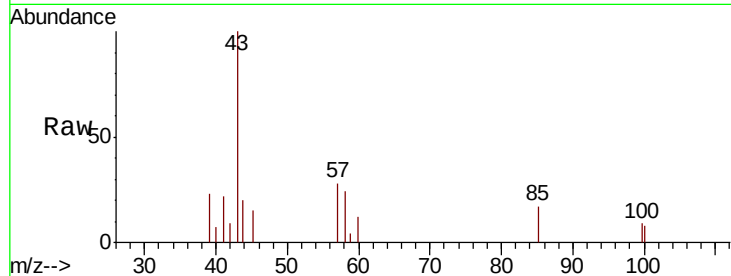
T2-3-(1.5)

Tgt Ion: 43 Resp: 7111

Ion Ratio Lower Upper

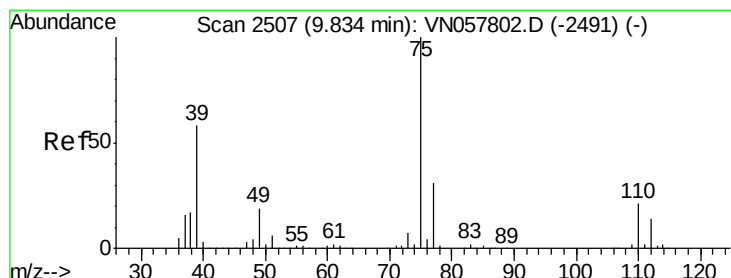
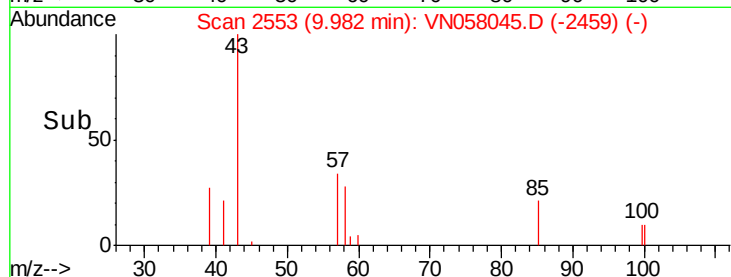
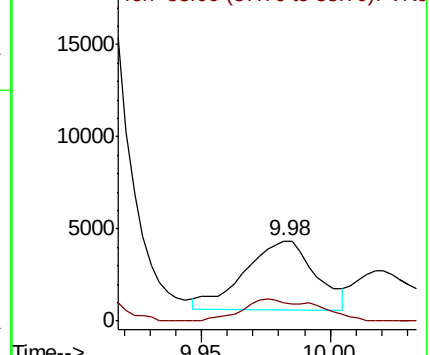
43 100

58 34.8 29.8 44.6



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: 4.912 ug/l

RT: 9.90 min Scan# 2528

Delta R.T. 0.07 min

Lab File: VN058045.D

Acq: 14 Sep 2019 1:59

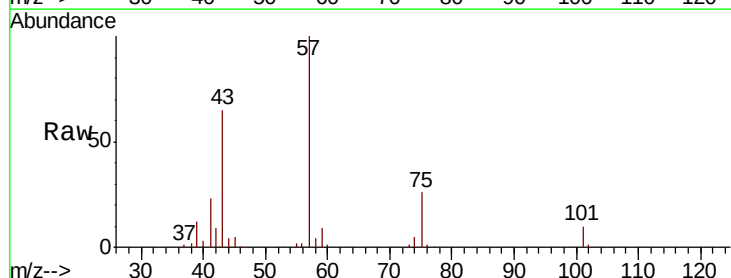
Tgt Ion: 75 Resp: 37552

Ion Ratio Lower Upper

75 100

77 0.8 24.8 37.2#

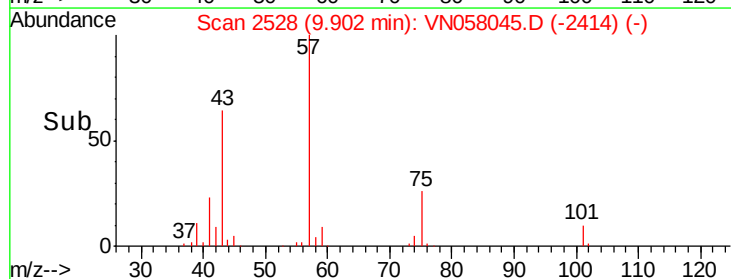
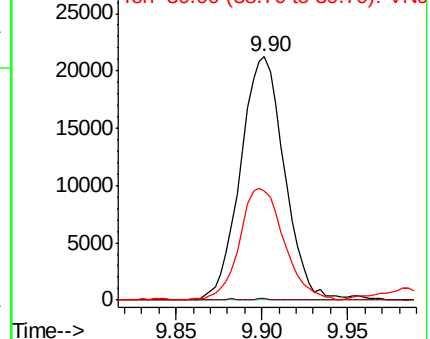
39 44.2 46.2 69.4#

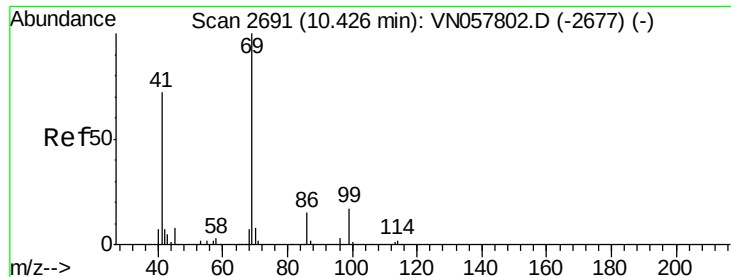


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0





#56

Ethyl methacrylate

Concen: 0.268 ug/l

RT: 10.54 min Scan# 2727

Delta R.T. 0.12 min

Lab File: VN058045.D

Acq: 14 Sep 2019 1:59

Instrument :

MSVOA_N

ClientSampleId :

T2-3-(1.5)

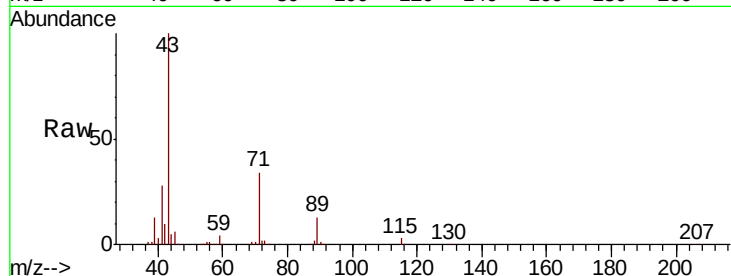
Tgt Ion: 69 Resp: 2018

Ion Ratio Lower Upper

69 100

41 5120.8 56.7 85.1#

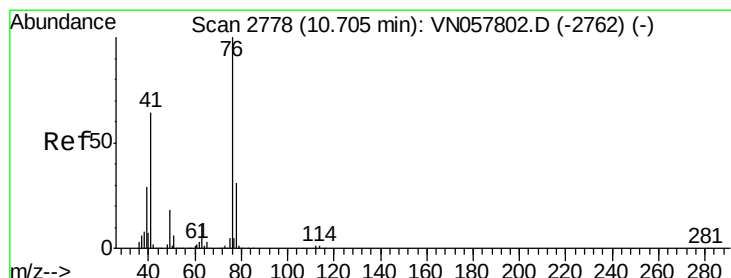
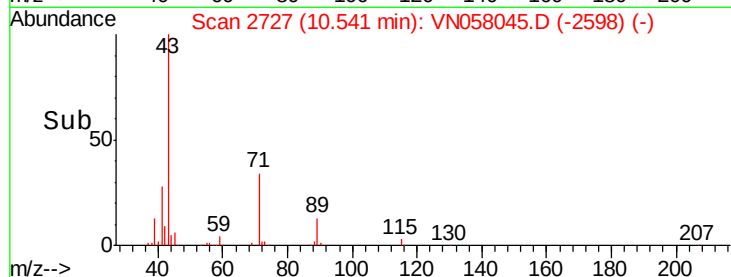
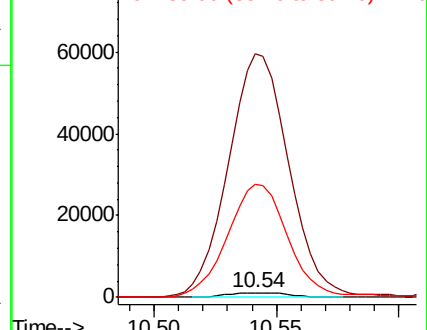
39 2375.6 36.3 54.5#



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: 0.608 ug/l

RT: 10.77 min Scan# 2797

Delta R.T. 0.06 min

Lab File: VN058045.D

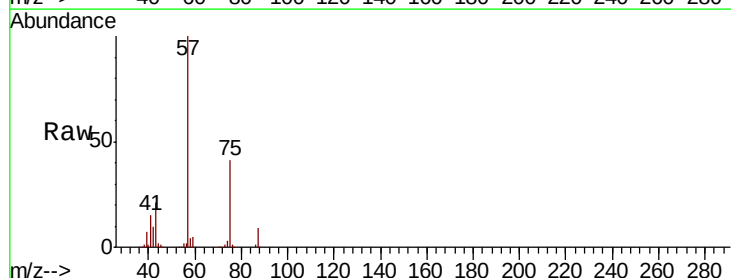
Acq: 14 Sep 2019 1:59

Tgt Ion: 76 Resp: 5233

Ion Ratio Lower Upper

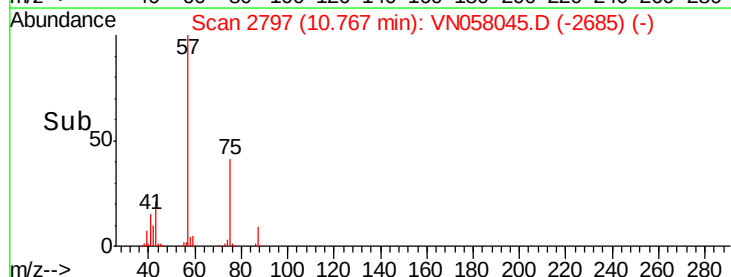
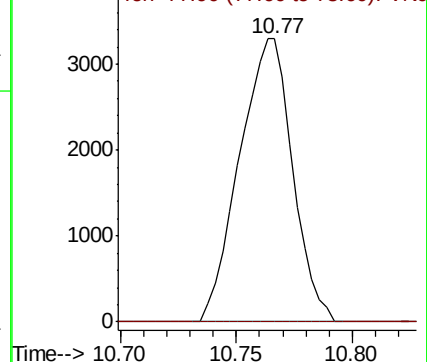
76 100

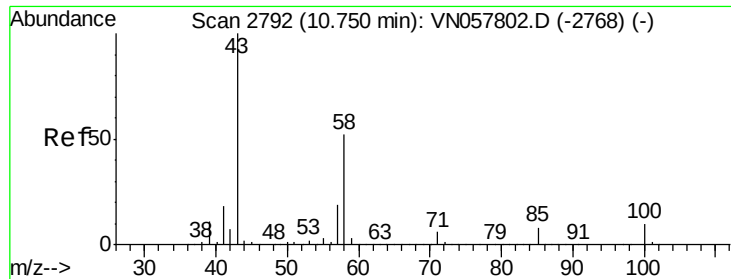
78 0.0 25.4 38.2#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

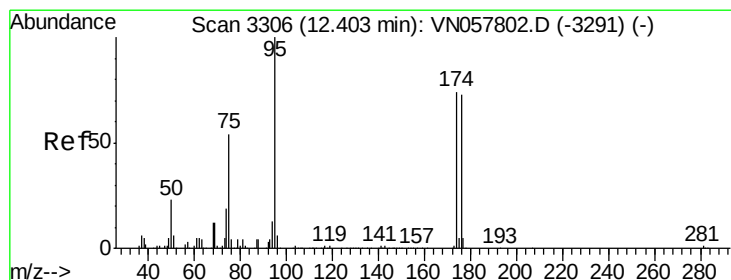
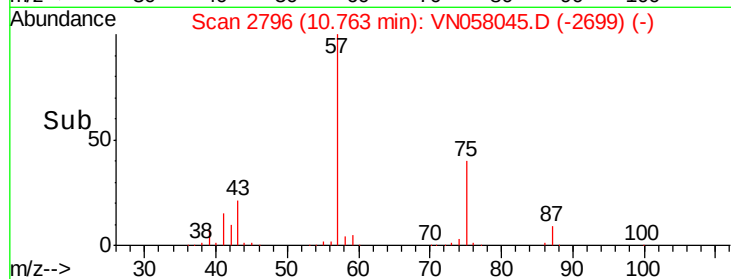
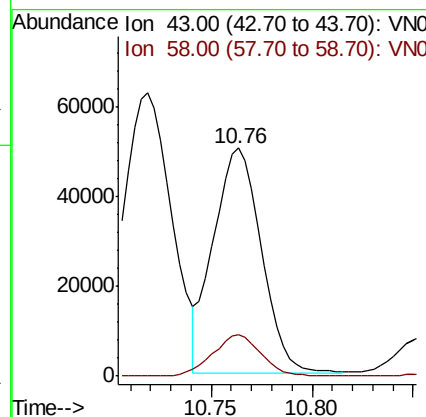
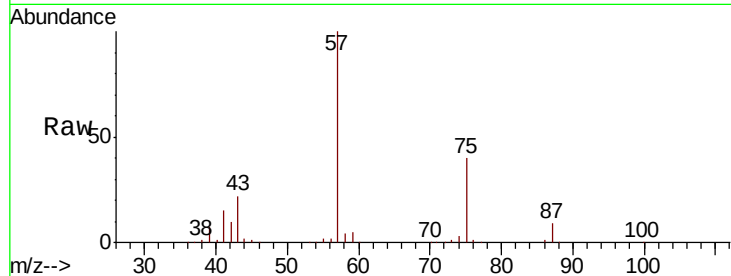




#59
2-Hexanone
Concen: 17.357 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN058045.D
Acq: 14 Sep 2019 1:59

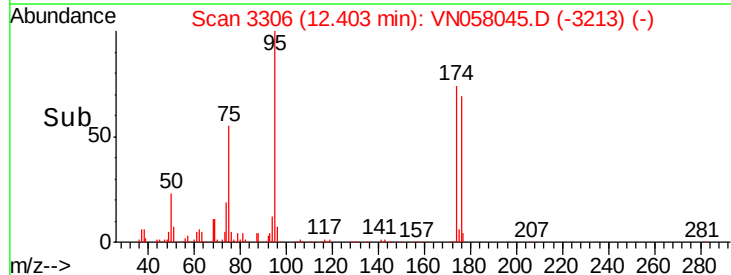
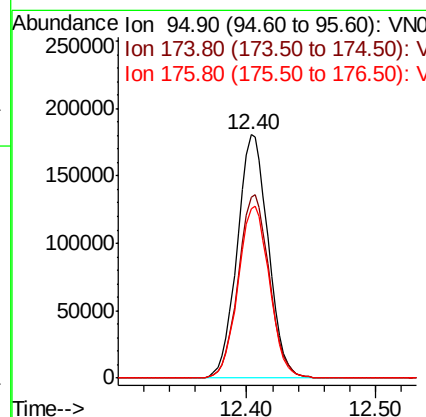
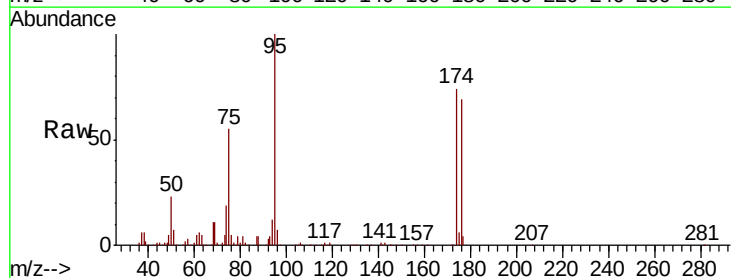
Instrument :
MSVOA_N
ClientSampled :
T2-3-(1.5)

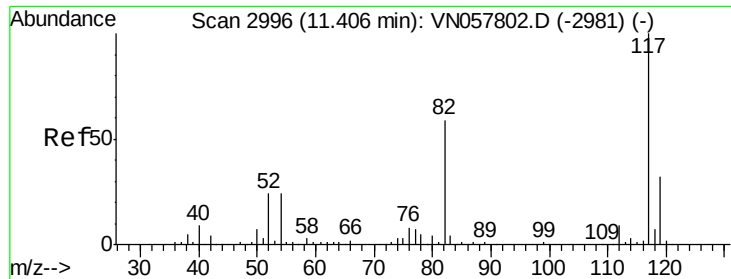
Tgt Ion: 43 Resp: 83205
Ion Ratio Lower Upper
43 100
58 18.4 25.6 76.8#



#62
4-Bromofluorobenzene
Concen: 41.185 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN058045.D
Acq: 14 Sep 2019 1:59

Tgt Ion: 95 Resp: 301662
Ion Ratio Lower Upper
95 100
174 75.6 0.0 150.2
176 71.6 0.0 146.0

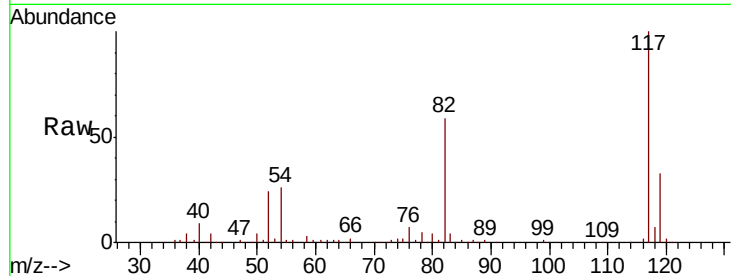




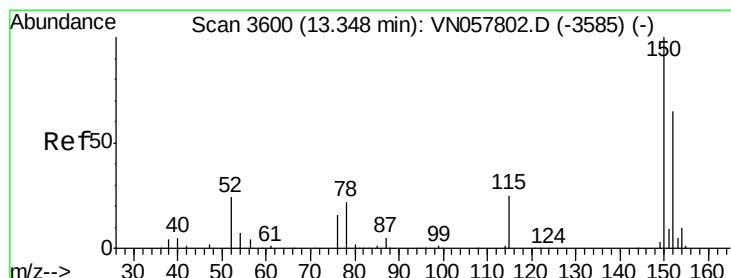
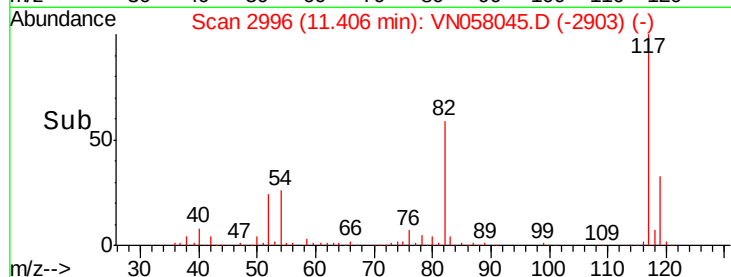
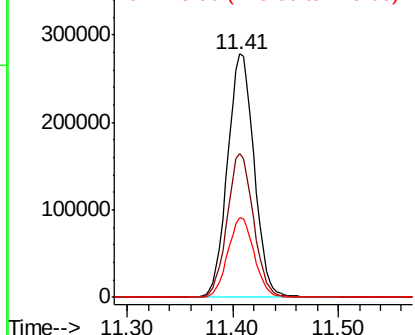
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN058045.D
Acq: 14 Sep 2019 1:59

Instrument :
MSVOA_N
ClientSampled :
T2-3-(1.5)

Tgt Ion:117 Resp: 485726
Ion Ratio Lower Upper
117 100
82 59.2 47.2 70.8
119 32.6 25.3 37.9

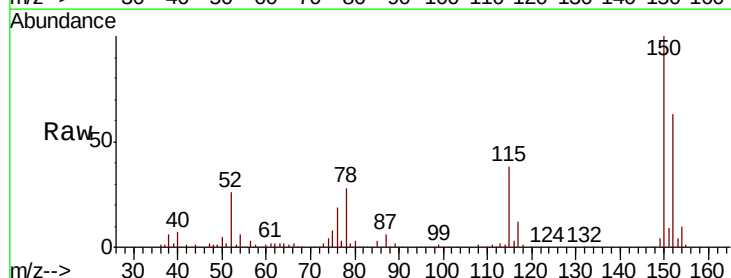


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

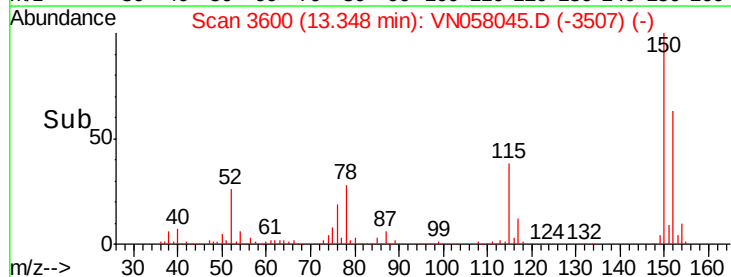
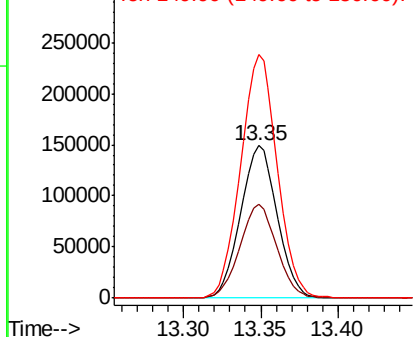


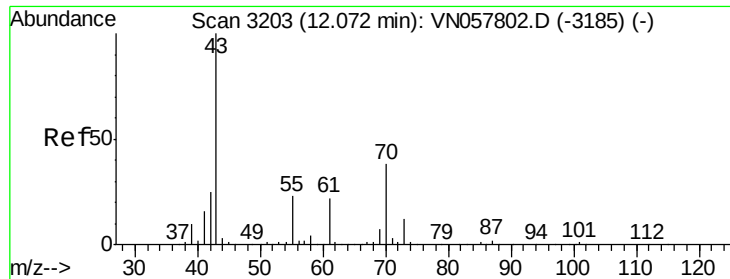
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3600
Delta R.T. 0.00 min
Lab File: VN058045.D
Acq: 14 Sep 2019 1:59

Tgt Ion:152 Resp: 245595
Ion Ratio Lower Upper
152 100
115 62.1 30.3 91.0
150 159.8 0.0 352.4



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#74

N-ethyl acetate

Concen: 0.622 ug/l

RT: 12.03 min Scan# 3191

Delta R.T. -0.04 min

Lab File: VN058045.D

Acq: 14 Sep 2019 1:59

Instrument :

MSVOA_N

ClientSampled :

T2-3-(1.5)

Tgt Ion: 43 Resp: 5156

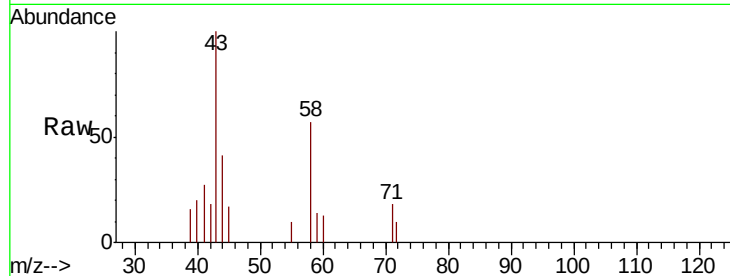
Ion Ratio Lower Upper

43 100

70 0.0 30.6 45.8#

55 4.4 18.6 27.8#

61 0.0 17.4 26.2#

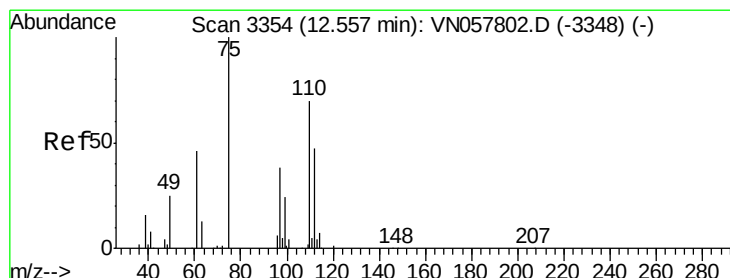
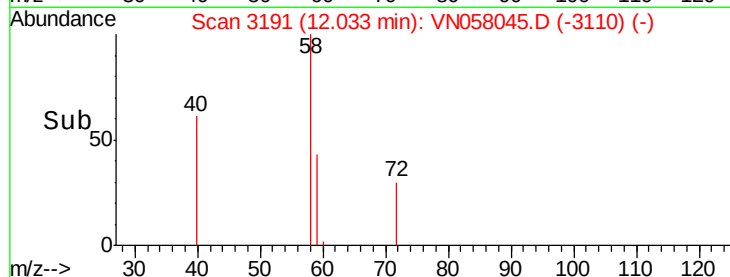
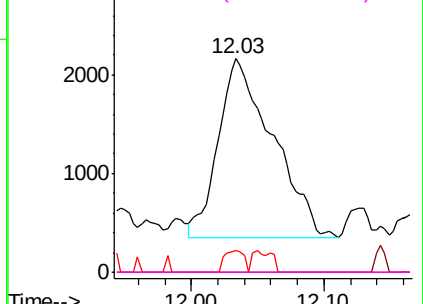


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 29.837 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN058045.D

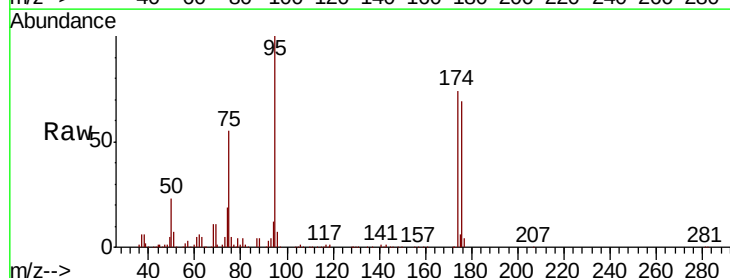
Acq: 14 Sep 2019 1:59

Tgt Ion: 75 Resp: 165767

Ion Ratio Lower Upper

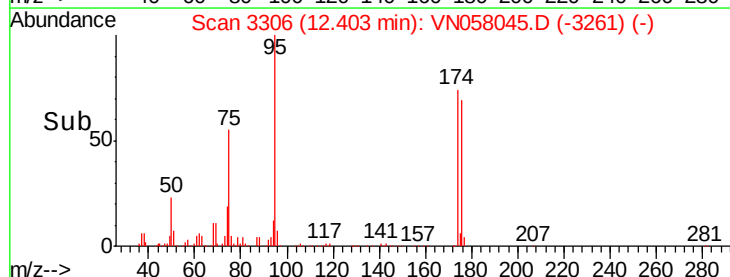
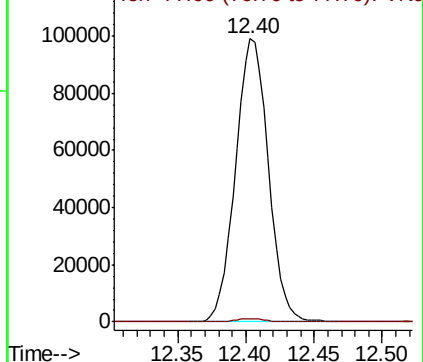
75 100

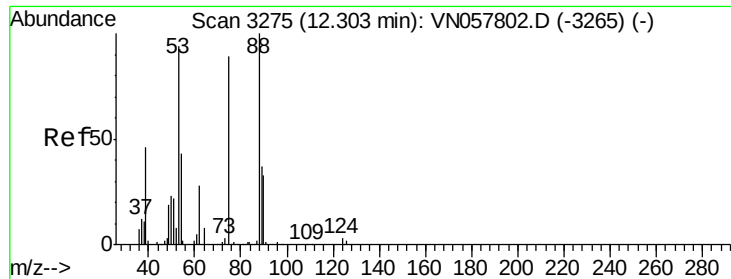
77 1.0 0.0 0.0#



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: 104.996 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN058045.D

Acq: 14 Sep 2019 1:59

Instrument :

MSVOA_N

ClientSampleId :

T2-3-(1.5)

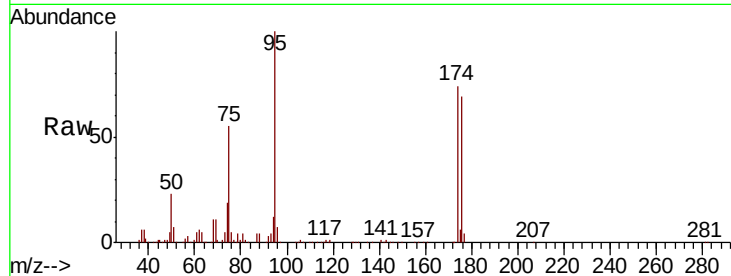
Tgt Ion: 75 Resp: 165767

Ion Ratio Lower Upper

75 100

53 0.0 88.4 132.6#

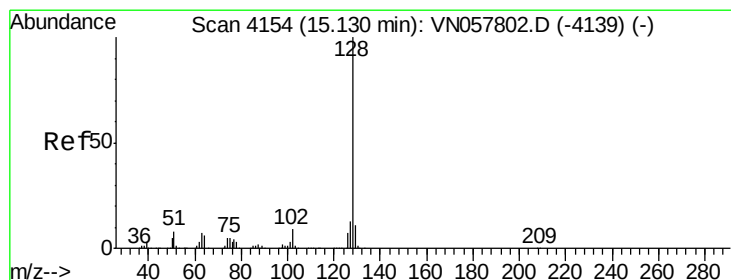
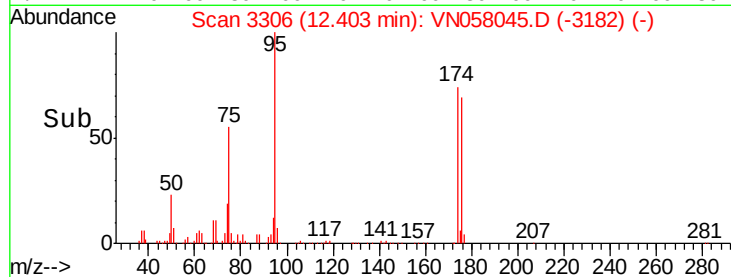
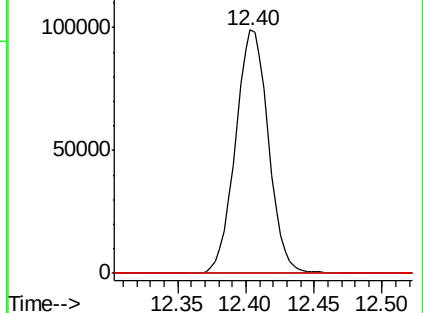
89 0.0 35.3 52.9#



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# 4154

Delta R.T. 0.00 min

Lab File: VN058045.D

Acq: 14 Sep 2019 1:59

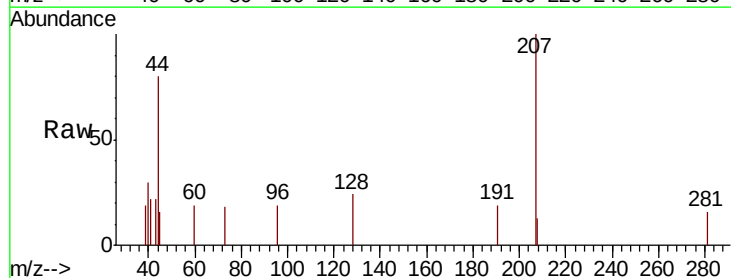
Tgt Ion: 128 Resp: 316

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

