

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN112719\
 Data File : VN059429.D
 Acq On : 27 Nov 2019 18:26
 Operator : JC/SP
 Sample : VN1127WBL01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Nov 29 03:00:57 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N112719W.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 27 16:56:05 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	349650	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	540224	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	469731	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	180854	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	197463	48.21	ug/l	0.00
Spiked Amount			Recovery	=	96.42%	
35) Dibromofluoromethane	7.57	113	161030	48.94	ug/l	0.00
Spiked Amount			Recovery	=	97.88%	
50) Toluene-d8	10.08	98	644997	49.19	ug/l	0.00
Spiked Amount			Recovery	=	98.38%	
62) 4-Bromofluorobenzene	12.40	95	210399	46.09	ug/l	0.00
Spiked Amount			Recovery	=	92.18%	

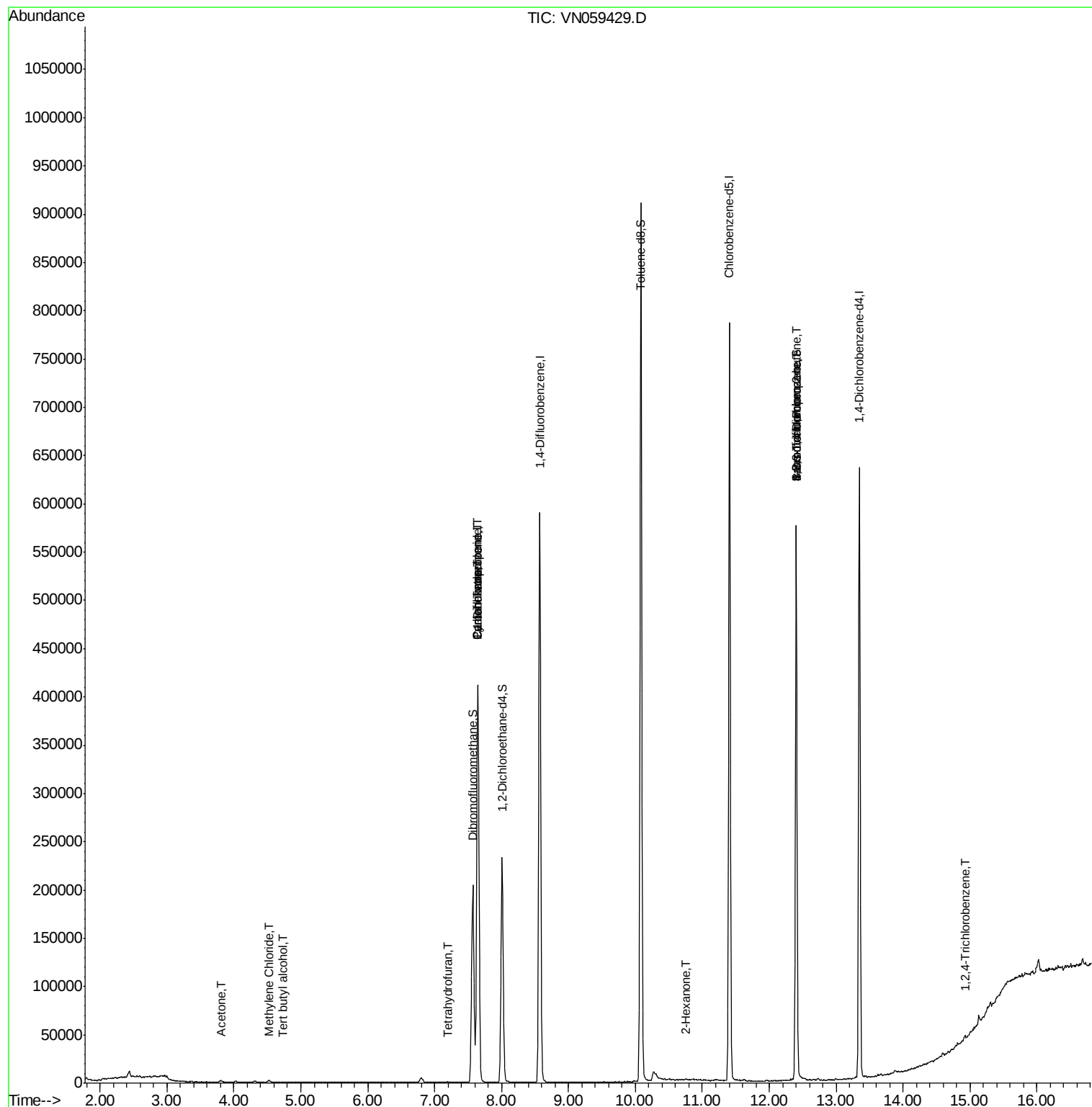
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.74	59	435	0.613	ug/l #	85
16) Acetone	3.80	43	3468	1.777	ug/l #	84
20) Methylene Chloride	4.52	84	1579	0.398	ug/l	84
29) Tetrahydrofuran	7.19	42	802	0.449	ug/l #	40
31) Cyclohexane	7.64	56	6286	0.911	ug/l #	1
36) 1,1-Dichloropropene	7.65	75	26036	5.012	ug/l #	49
38) Carbon Tetrachloride	7.65	117	33016	6.734	ug/l #	16
59) 2-Hexanone	10.76	43	1077	0.300	ug/l	71
70) Styrene	11.97	104	184	Below Cal	#	87
71) Bromoform	12.40	173	778	0.296	ug/l #	1
74) N-amyl acetate	12.07	43	460	Below Cal	#	42
76) 1,2,3-Trichloropropane	12.40	75	101038	24.695	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	101038	63.453	ug/l #	17
92) 1,2-Dibromo-3-Chloropropan	14.27	75	28	Below Cal	#	1
93) 1,2,4-Trichlorobenzene	14.92	180	1251	0.353	ug/l	91
95) Naphthalene	15.13	128	5578	Below Cal		97
96) 1,2,3-Trichlorobenzene	15.30	180	1718	Below Cal	#	82

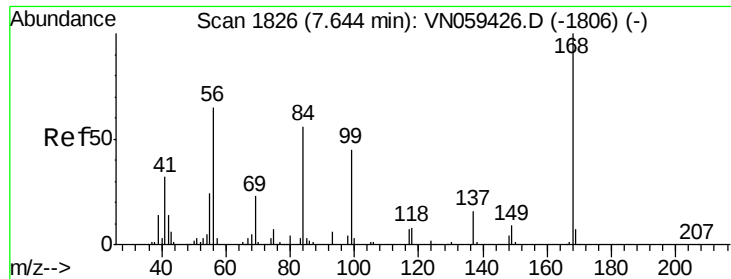
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Nov 27 16:56:05 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.00 min

Lab File: VN059429.D

Acq: 27 Nov 2019 18:26

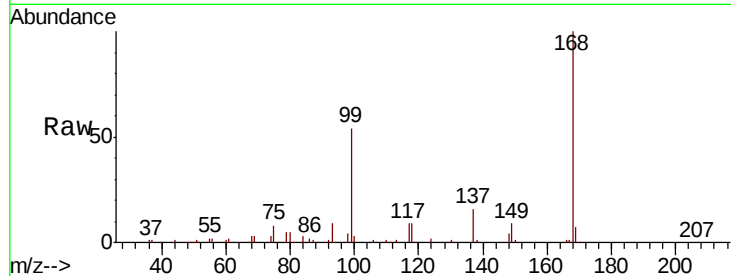
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 349650

Ion Ratio Lower Upper

168 100

99 54.5 43.0 64.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.64

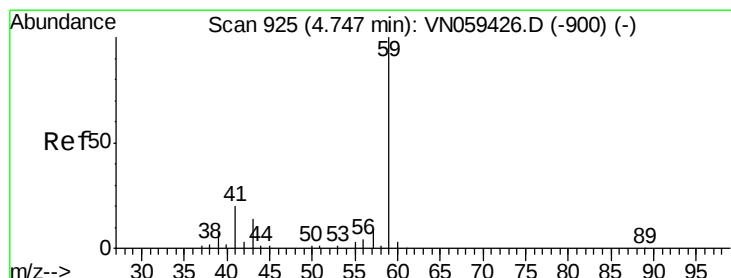
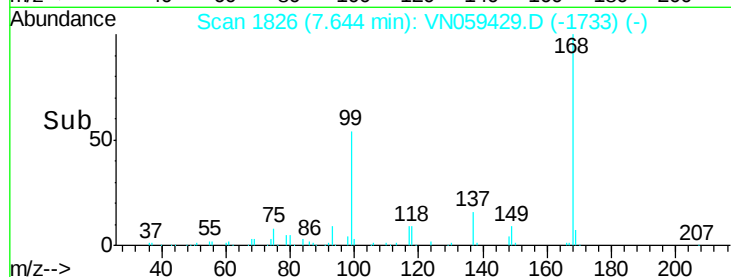
150000

100000

50000

0

Time--> 7.50 7.60 7.70 7.80



#11

Tert butyl alcohol

Concen: 0.613 ug/l

RT: 4.74 min Scan# 922

Delta R.T. -0.01 min

Lab File: VN059429.D

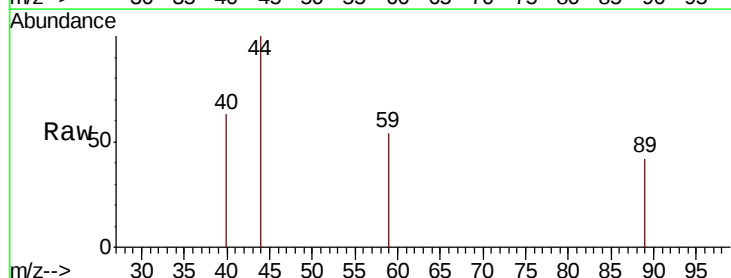
Acq: 27 Nov 2019 18:26

Tgt Ion: 59 Resp: 435

Ion Ratio Lower Upper

59 100

57 0.0 3.8 5.8#



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO

4.74

300

250

200

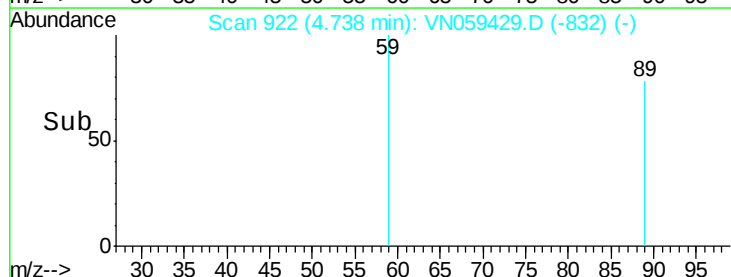
150

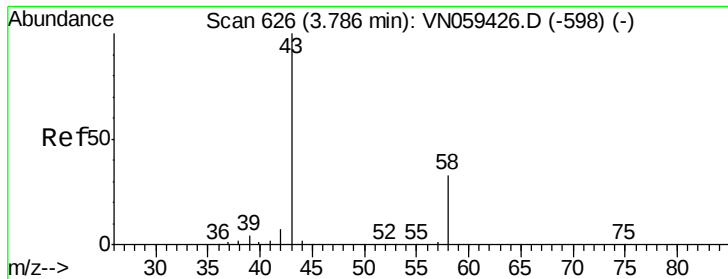
100

50

0

Time--> 4.70 4.72 4.74 4.76

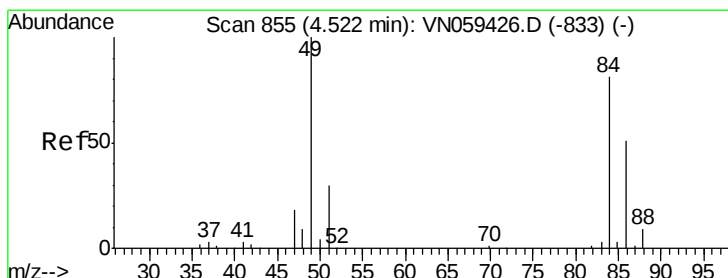
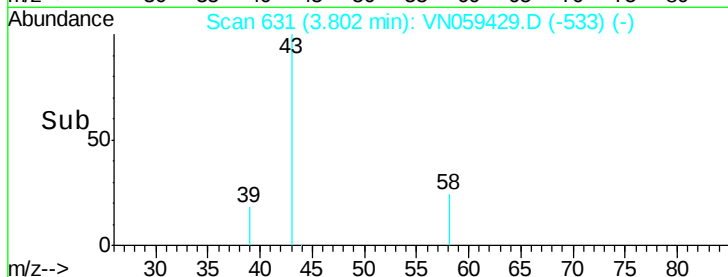
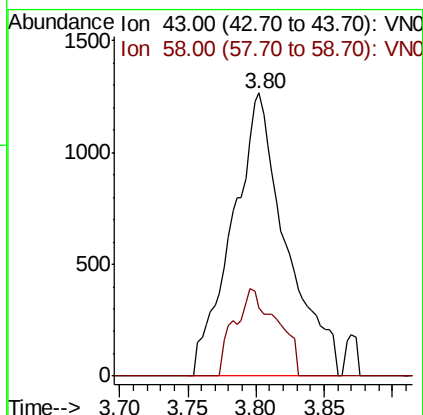
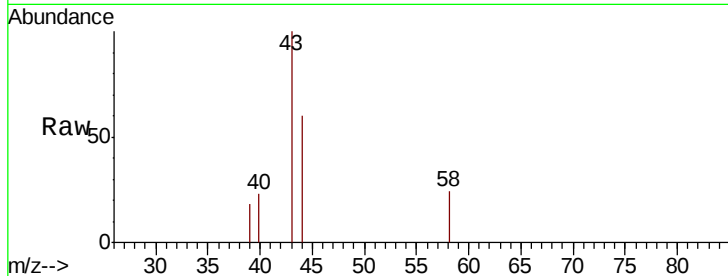




#16
Acetone
Concen: 1.777 ug/l
RT: 3.80 min Scan# 631
Delta R.T. 0.02 min
Lab File: VN059429.D
Acq: 27 Nov 2019 18:26

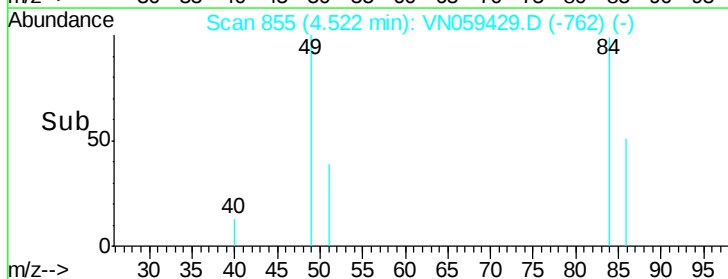
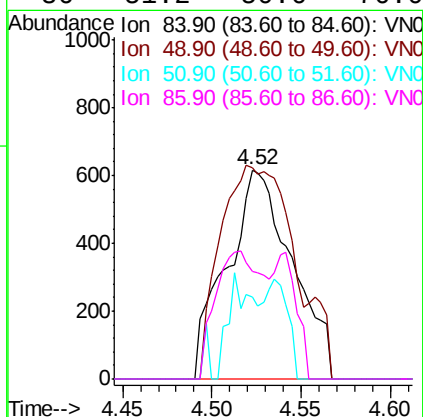
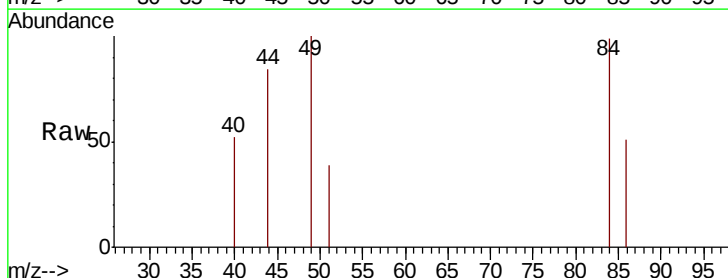
Instrument :
MSVOA_N
ClientSampled :

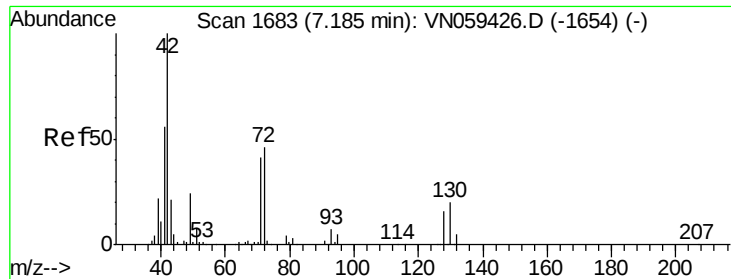
Tot Ion: 43 Resp: 3468
Ion Ratio Lower Upper
43 100
58 24.3 26.6 39.8#



#20
Methylene Chloride
Concen: 0.398 ug/l
RT: 4.52 min Scan# 855
Delta R.T. 0.00 min
Lab File: VN059429.D
Acq: 27 Nov 2019 18:26

Tgt Ion: 84 Resp: 1579
Ion Ratio Lower Upper
84 100
49 101.1 98.6 148.0
51 39.1 29.4 44.0
86 51.2 50.6 76.0





#29

Tetrahydrofuran

Concen: 0.449 ug/l

RT: 7.19 min Scan# 1686

Delta R.T. 0.01 min

Lab File: VN059429.D

Acq: 27 Nov 2019 18:26

Instrument :

MSVOA_N

ClientSampled :

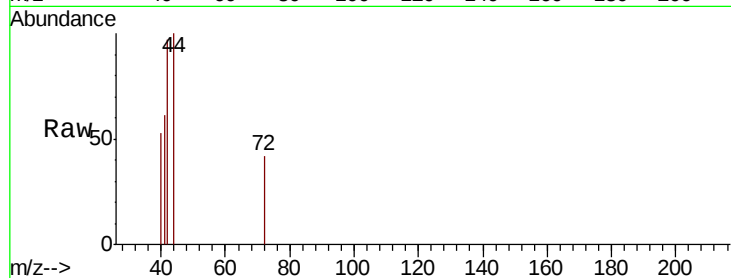
Tot Ion: 42 Resp: 802

Ion Ratio Lower Upper

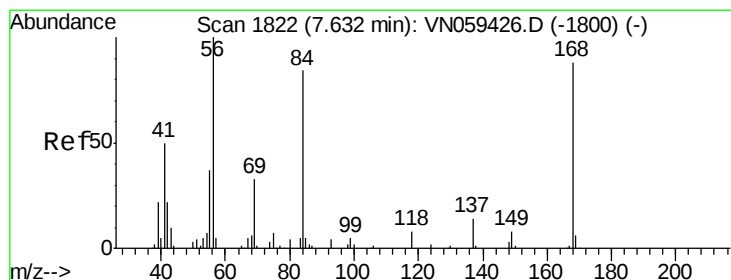
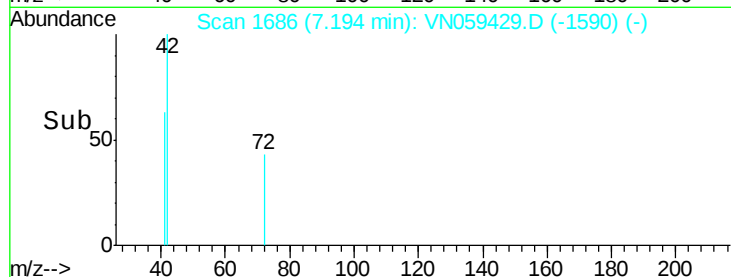
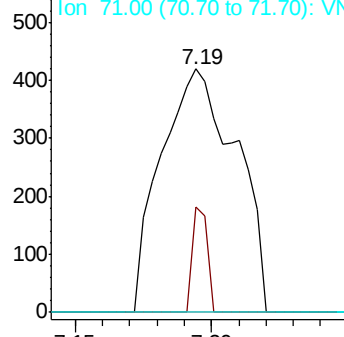
42 100

72 8.4 34.6 51.8#

71 0.0 33.0 49.6#



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



#31

Cyclohexane

Concen: 0.911 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.01 min

Lab File: VN059429.D

Acq: 27 Nov 2019 18:26

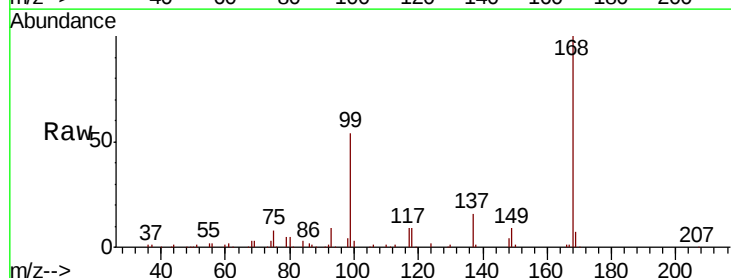
Tgt Ion: 56 Resp: 6286

Ion Ratio Lower Upper

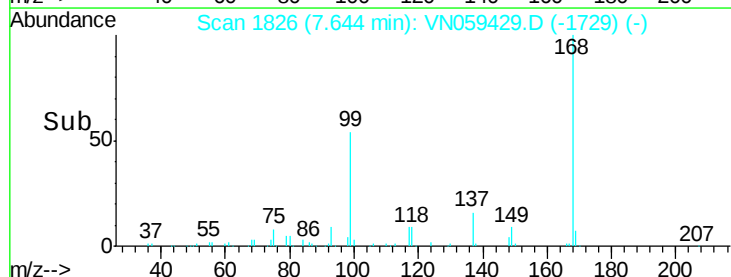
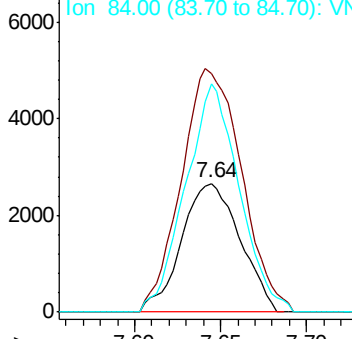
56 100

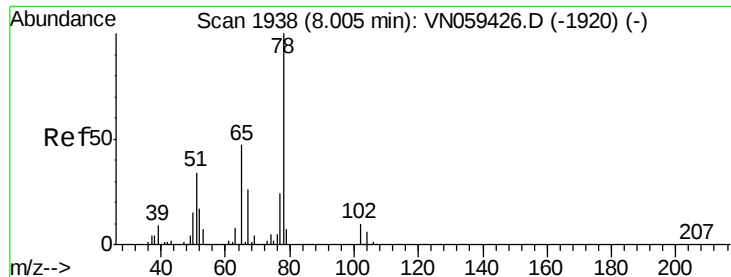
69 186.0 26.4 39.6#

84 177.2 67.0 100.6#



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





#33

1,2-Dichloroethane-d4

Concen: 48.211 ug/l

RT: 8.01 min Scan# 1939

Delta R.T. 0.00 min

Lab File: VN059429.D

Acq: 27 Nov 2019 18:26

Instrument :

MSVOA_N

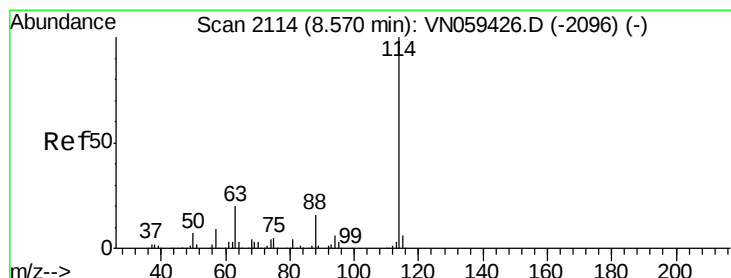
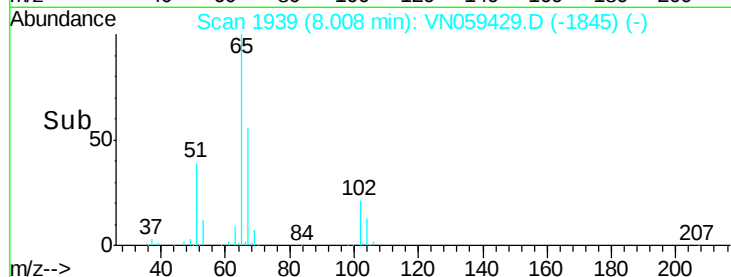
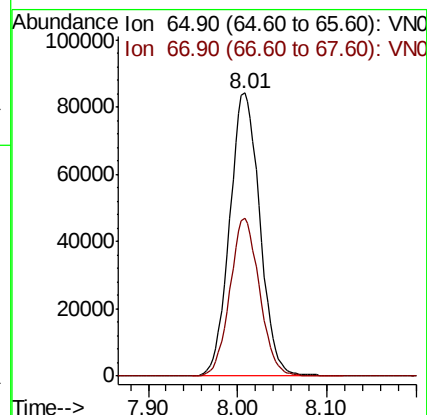
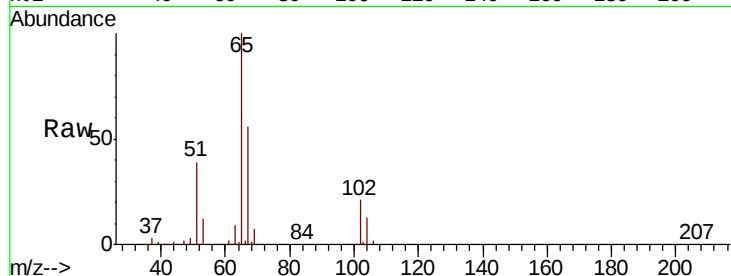
ClientSampleId :

Tot Ion: 65 Resp: 197463

Ion Ratio Lower Upper

65 100

67 54.7 0.0 111.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2114

Delta R.T. 0.00 min

Lab File: VN059429.D

Acq: 27 Nov 2019 18:26

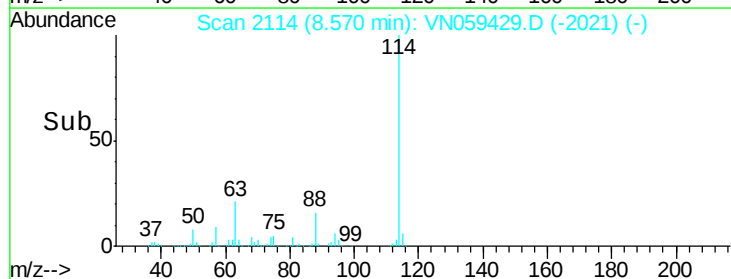
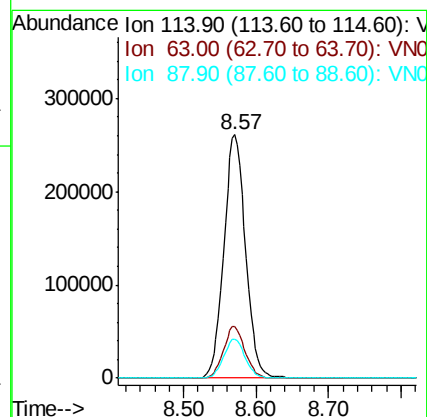
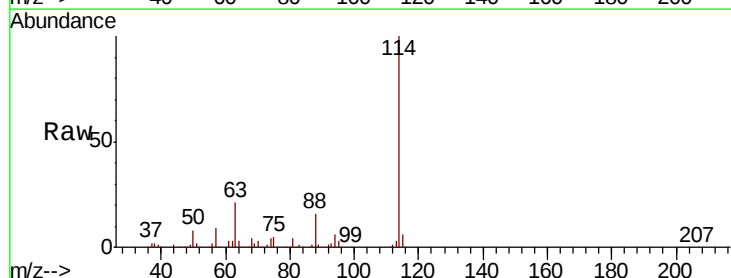
Tgt Ion: 114 Resp: 540224

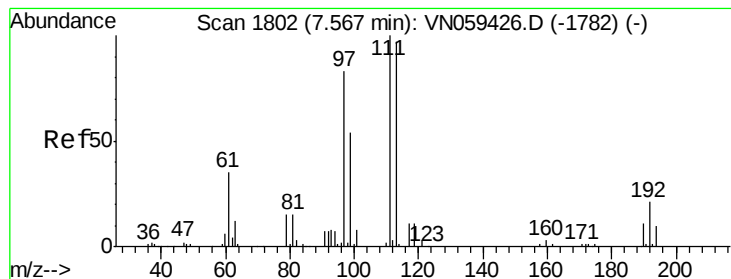
Ion Ratio Lower Upper

114 100

63 21.0 0.0 40.4

88 16.0 0.0 32.2





#35

Dibromofluoromethane

Concen: 48.936 ug/l

RT: 7.57 min Scan# 1803

Delta R.T. 0.00 min

Lab File: VN059429.D

Acq: 27 Nov 2019 18:26

Instrument :

MSVOA_N

ClientSampleId :

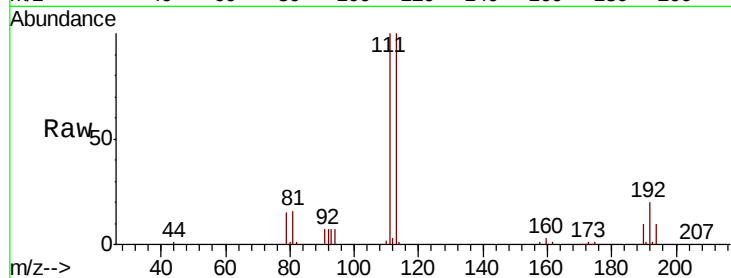
Tot Ion:113 Resp: 161030

Ion Ratio Lower Upper

113 100

111 103.5 81.9 122.9

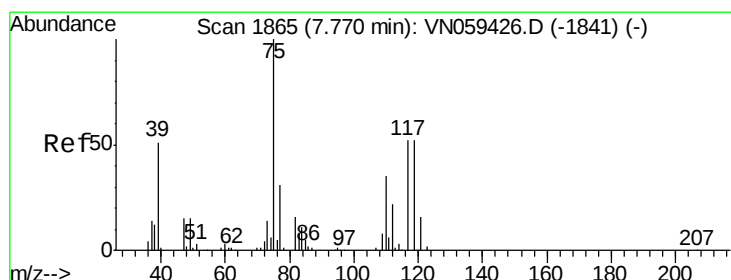
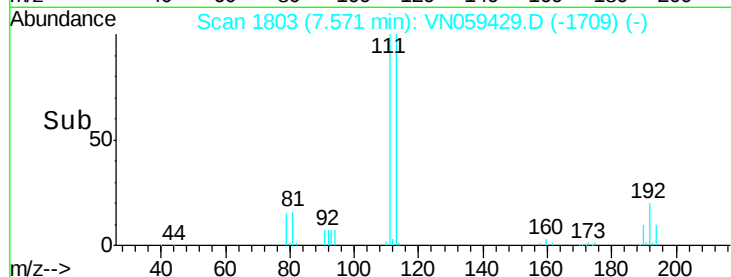
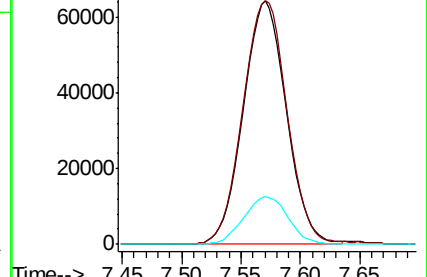
192 20.2 16.6 24.8



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: 5.012 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. -0.12 min

Lab File: VN059429.D

Acq: 27 Nov 2019 18:26

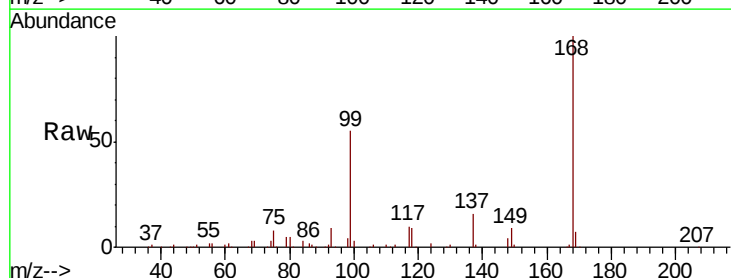
Tgt Ion: 75 Resp: 26036

Ion Ratio Lower Upper

75 100

110 8.6 17.3 52.0#

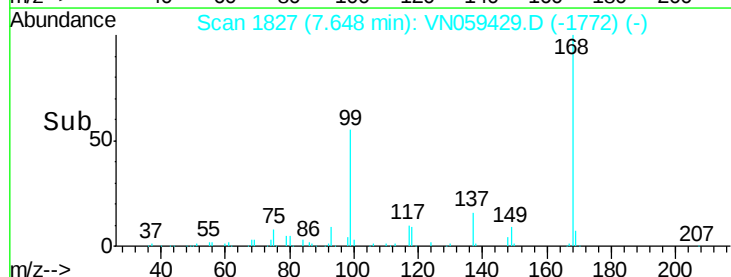
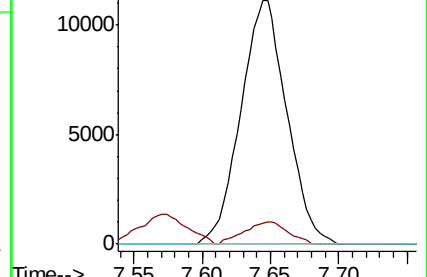
77 0.0 24.9 37.3#

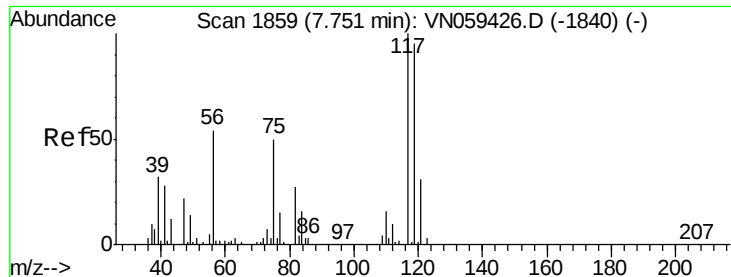


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V

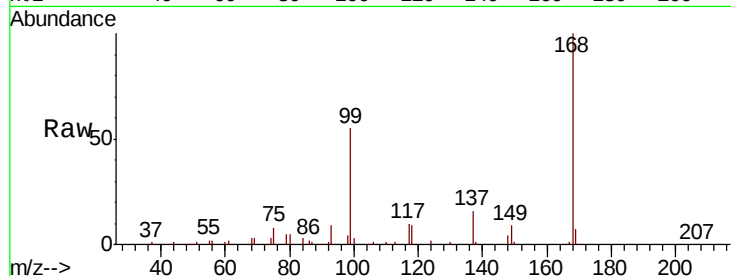




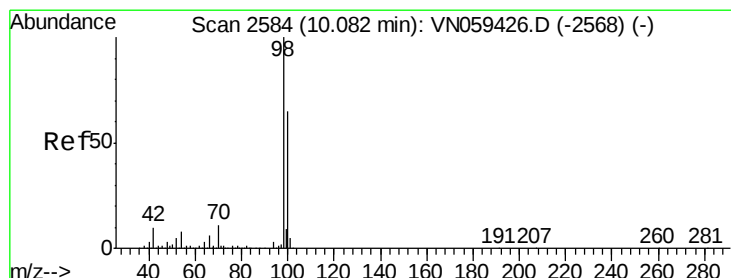
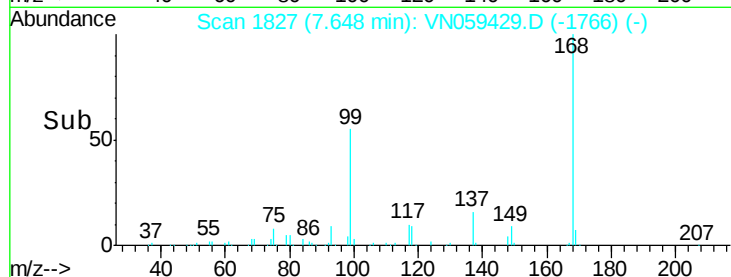
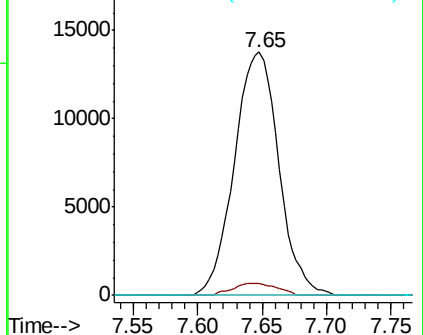
#38
Carbon Tetrachloride
Concen: 6.734 ug/l
RT: 7.65 min Scan# 1827
Delta R.T. -0.10 min
Lab File: VN059429.D
Acq: 27 Nov 2019 18:26

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 33016
Ion Ratio Lower Upper
117 100
119 4.9 75.9 113.9#
121 0.0 24.6 36.8#

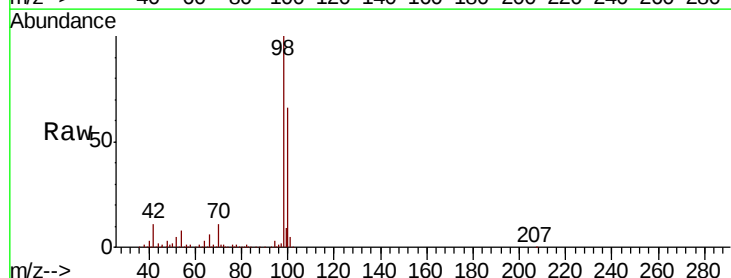


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

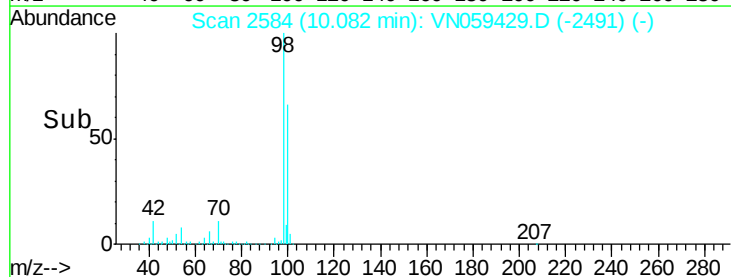
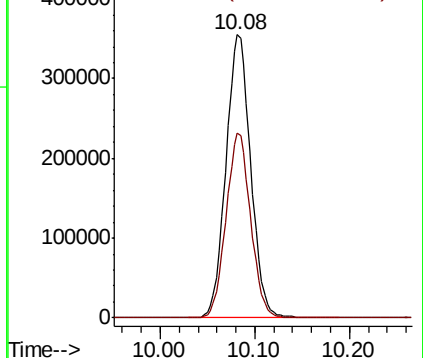


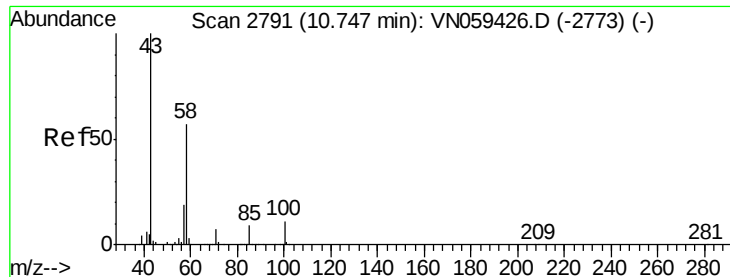
#50
Toluene-d8
Concen: 49.193 ug/l
RT: 10.08 min Scan# 2584
Delta R.T. 0.00 min
Lab File: VN059429.D
Acq: 27 Nov 2019 18:26

Tgt Ion: 98 Resp: 644997
Ion Ratio Lower Upper
98 100
100 64.9 52.2 78.2



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





#59

2-Hexanone

Concen: 0.300 ug/l

RT: 10.76 min Scan# 2794

Delta R.T. 0.01 min

Lab File: VN059429.D

Acq: 27 Nov 2019 18:26

Instrument :

MSVOA_N

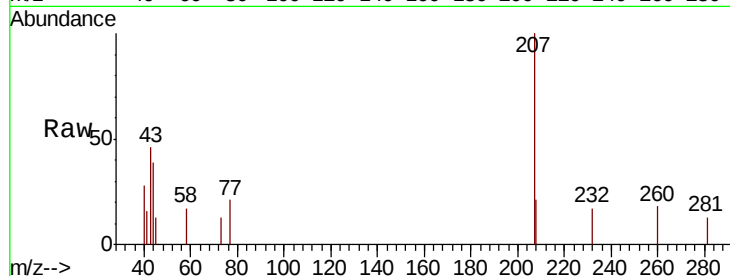
ClientSampleId :

Tot Ion: 43 Resp: 1077

Ion Ratio Lower Upper

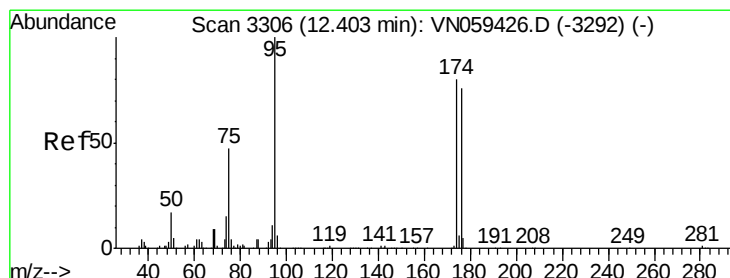
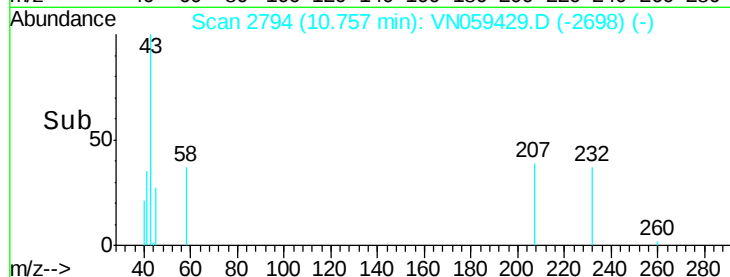
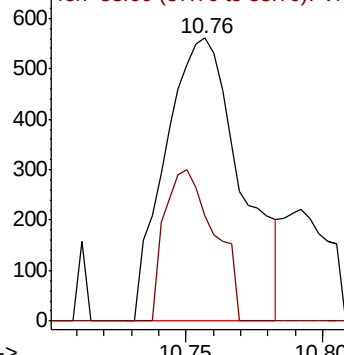
43 100

58 35.6 28.3 85.0



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#62

4-Bromofluorobenzene

Concen: 46.087 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN059429.D

Acq: 27 Nov 2019 18:26

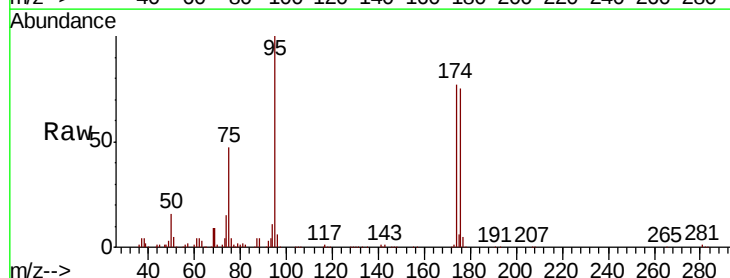
Tgt Ion: 95 Resp: 210399

Ion Ratio Lower Upper

95 100

174 78.8 0.0 158.0

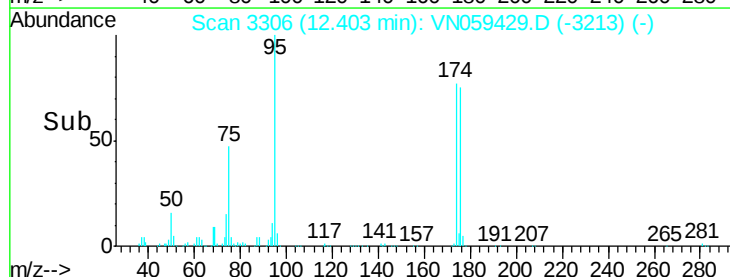
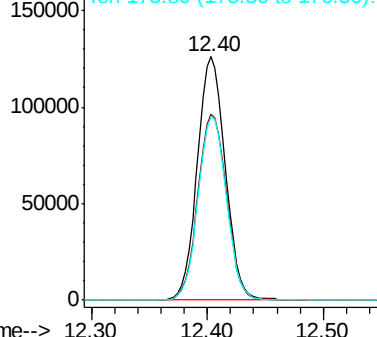
176 76.8 0.0 153.0

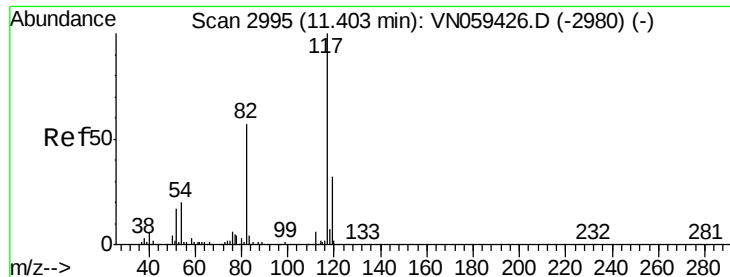


Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN059429.D

Acq: 27 Nov 2019 18:26

Instrument :

MSVOA_N

ClientSampleId :

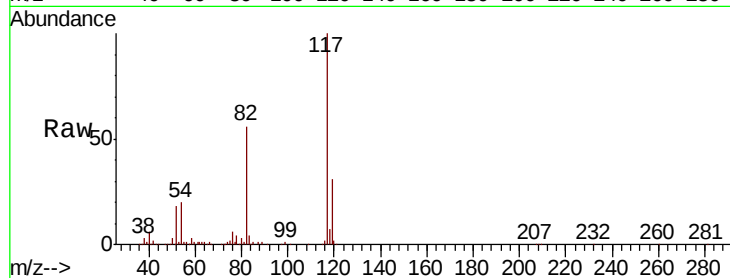
Tot Ion:117 Resp: 469731

Ion Ratio Lower Upper

117 100

82 55.7 45.4 68.0

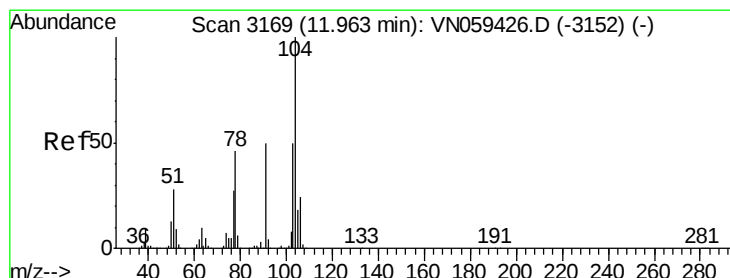
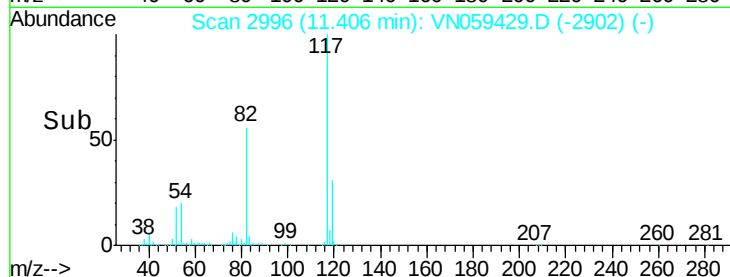
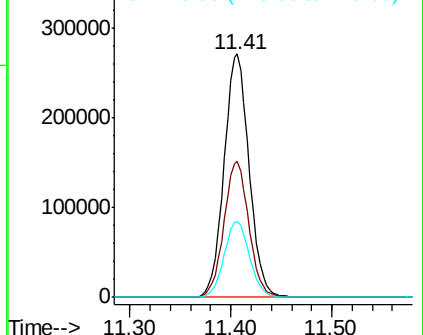
119 31.3 25.6 38.4



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VN0

Ion 118.90 (118.60 to 119.60): V



#70

Styrene

Concen: Below Cal

RT: 11.97 min Scan# 3171

Delta R.T. 0.01 min

Lab File: VN059429.D

Acq: 27 Nov 2019 18:26

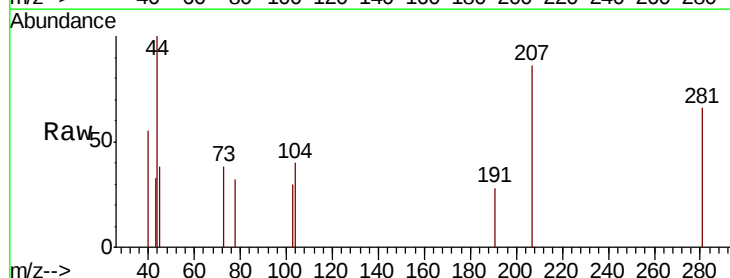
Tgt Ion:104 Resp: 184

Ion Ratio Lower Upper

104 100

78 33.7 40.4 60.6#

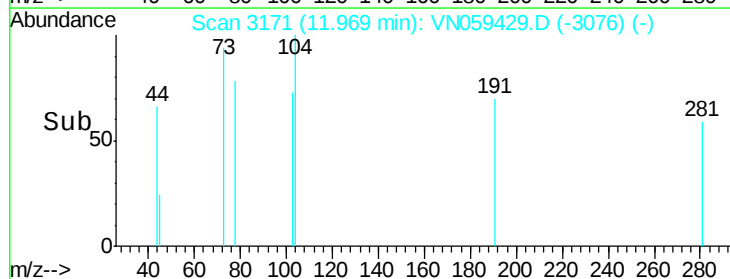
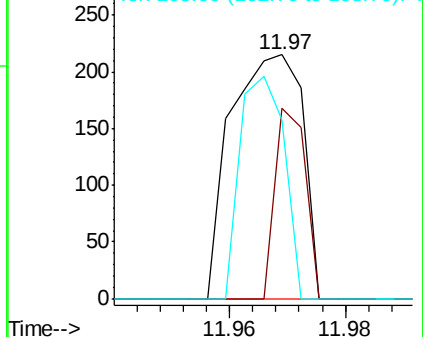
103 56.0 43.8 65.6

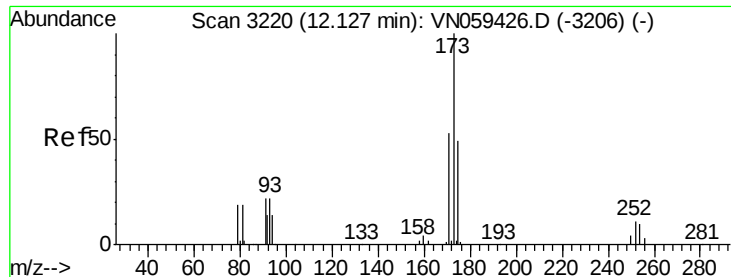


Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VN0

Ion 103.00 (102.70 to 103.70): V





#71

Bromoform

Concen: 0.296 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN059429.D

Acq: 27 Nov 2019 18:26

Instrument :

MSVOA_N

ClientSampled :

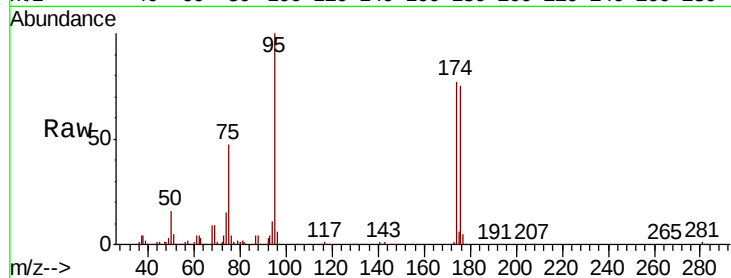
Tot Ion:173 Resp: 778

Ion Ratio Lower Upper

173 100

175 1298.6 24.1 72.3#

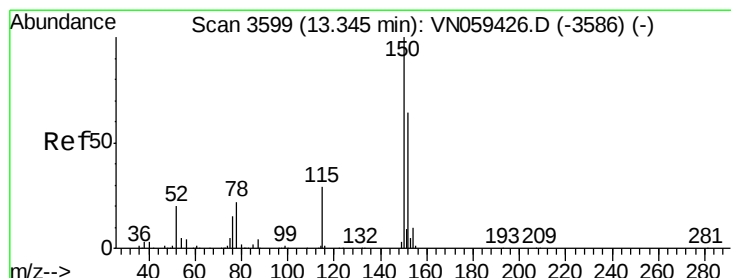
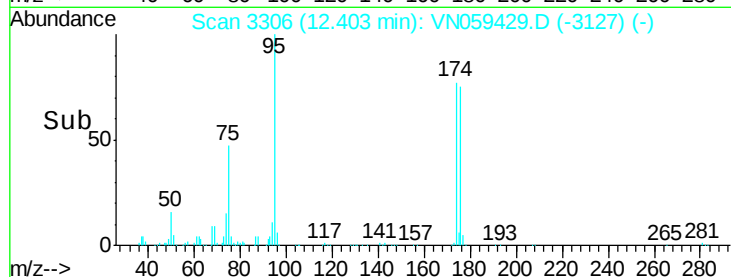
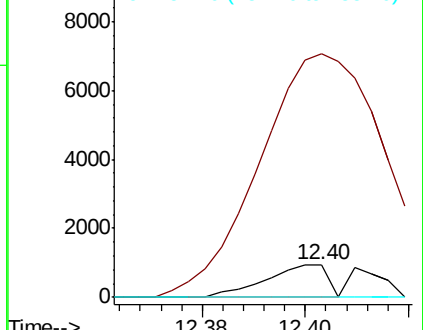
254 0.0 0.0 0.0



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: VN059429.D

Acq: 27 Nov 2019 18:26

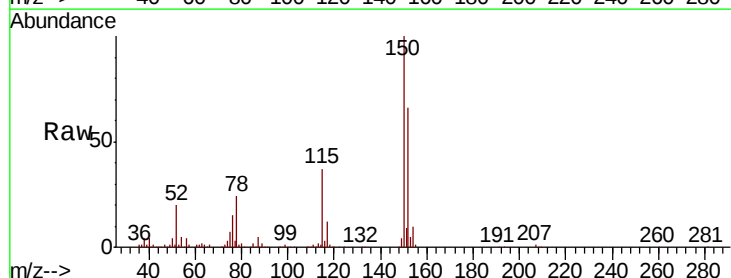
Tgt Ion:152 Resp: 180854

Ion Ratio Lower Upper

152 100

115 57.9 29.5 88.6

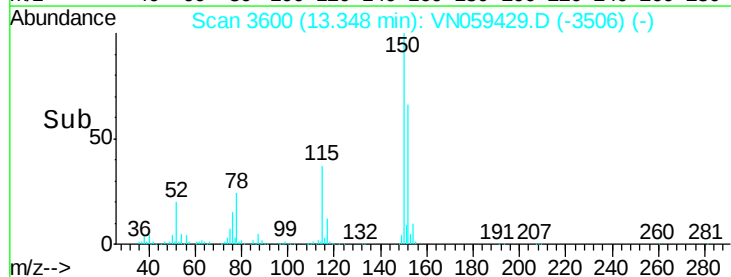
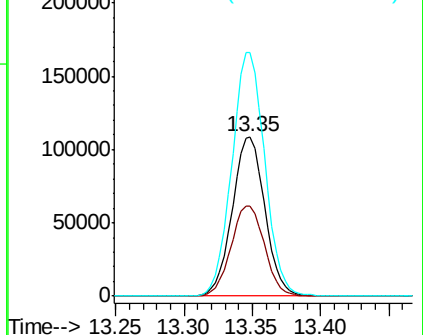
150 154.8 0.0 347.2

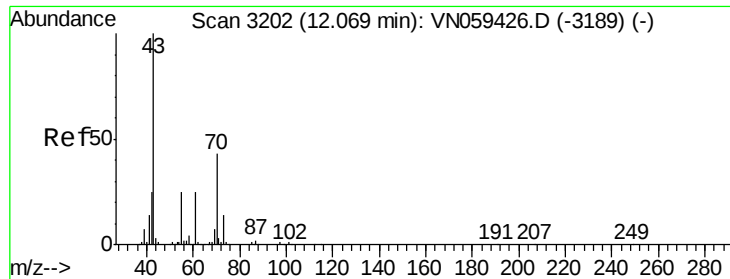


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: Below Cal

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN059429.D

Acq: 27 Nov 2019 18:26

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 43 Resp: 460

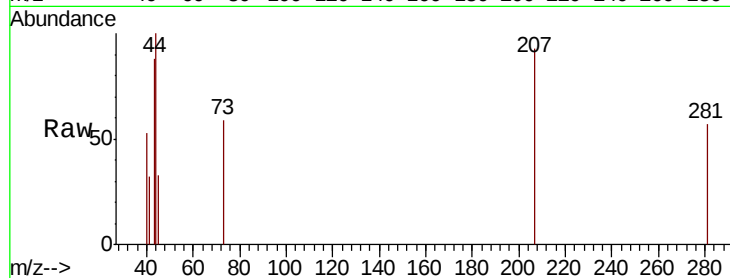
Ion Ratio Lower Upper

43 100

70 0.0 34.6 52.0#

55 0.0 20.5 30.7#

61 0.0 20.2 30.4#



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

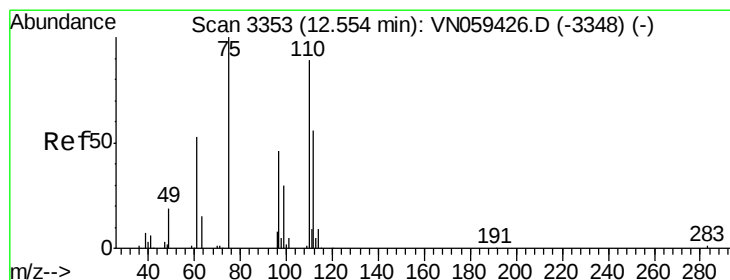
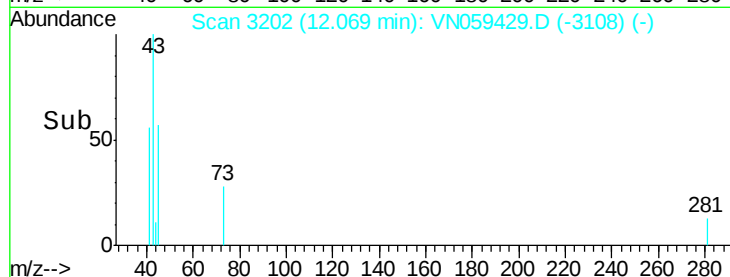
600

400

200

0

Time-->



#76

1,2,3-Trichloropropane

Concen: 24.695 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN059429.D

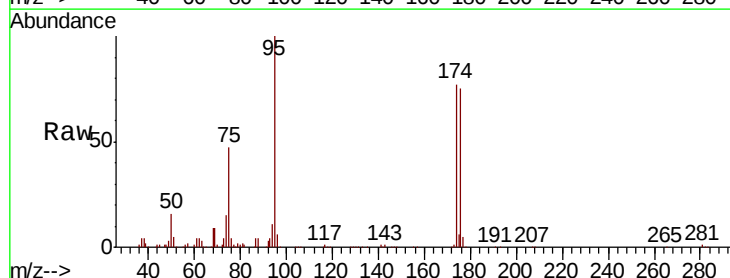
Acq: 27 Nov 2019 18:26

Tgt Ion: 75 Resp: 101038

Ion Ratio Lower Upper

75 100

77 1.5 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO

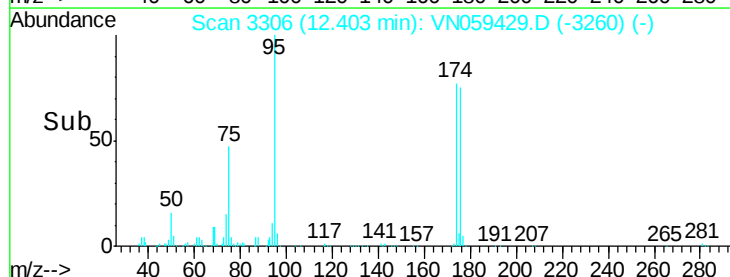
60000

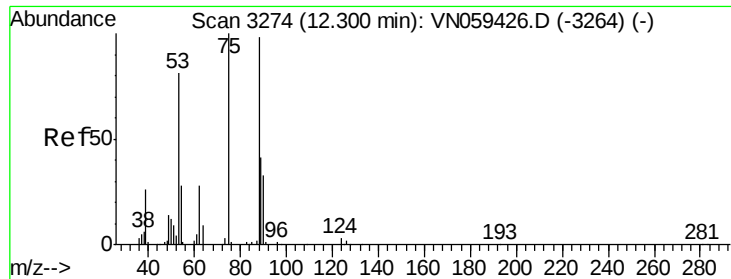
40000

20000

0

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 63.453 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN059429.D

Acq: 27 Nov 2019 18:26

Instrument :

MSVOA_N

ClientSampled :

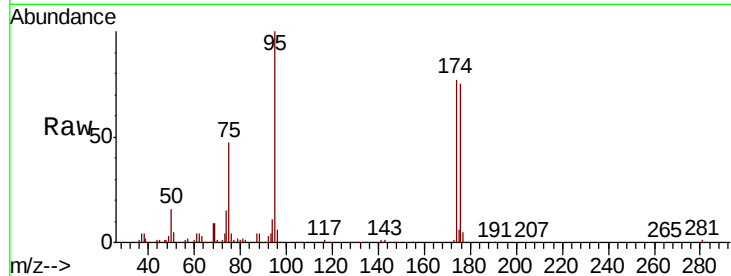
Tot Ion: 75 Resp: 101038

Ion Ratio Lower Upper

75 100

53 0.0 66.2 99.4#

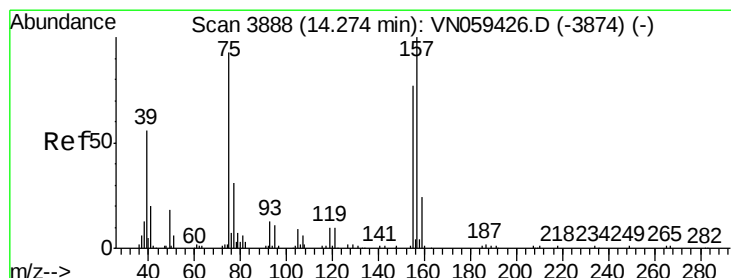
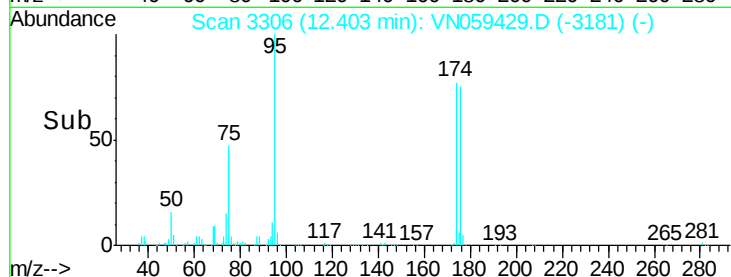
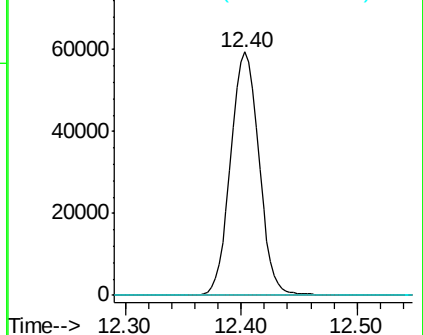
89 0.0 33.9 50.9#



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



#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.27 min Scan# 3888

Delta R.T. 0.00 min

Lab File: VN059429.D

Acq: 27 Nov 2019 18:26

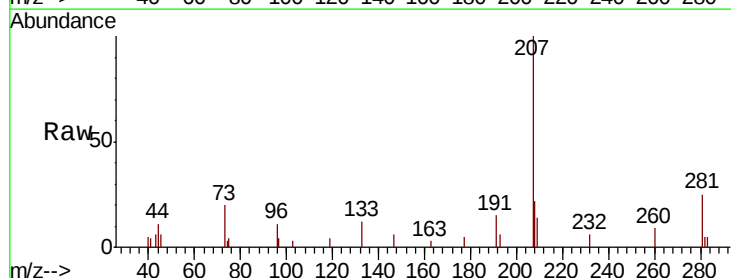
Tgt Ion: 75 Resp: 28

Ion Ratio Lower Upper

75 100

155 0.0 41.9 125.8#

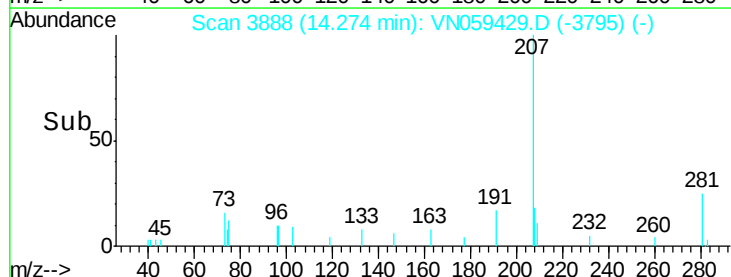
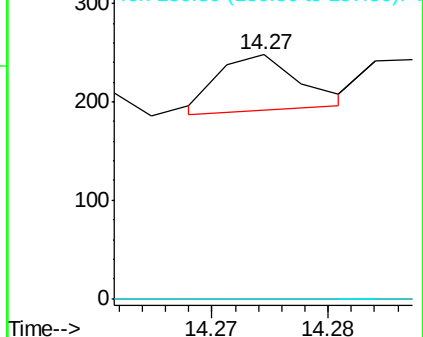
157 0.0 54.1 162.3#

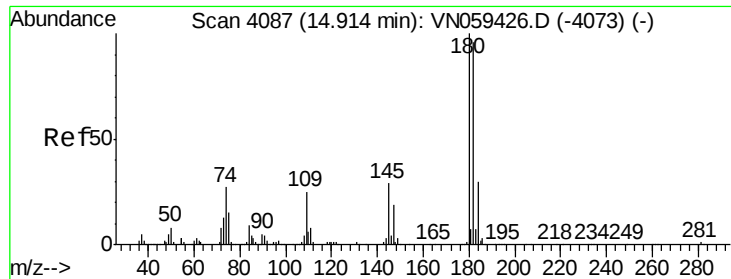


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

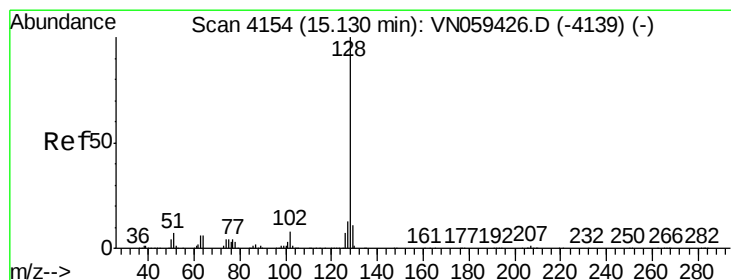
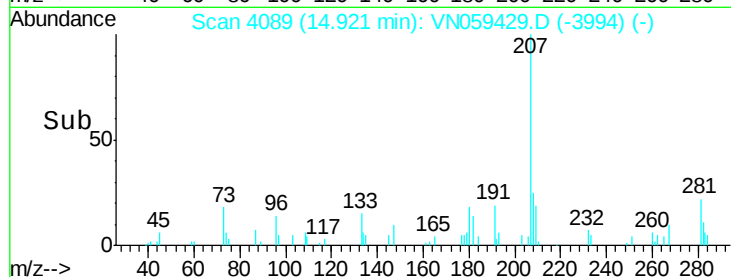
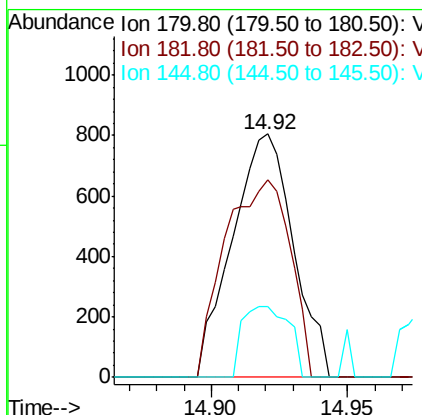
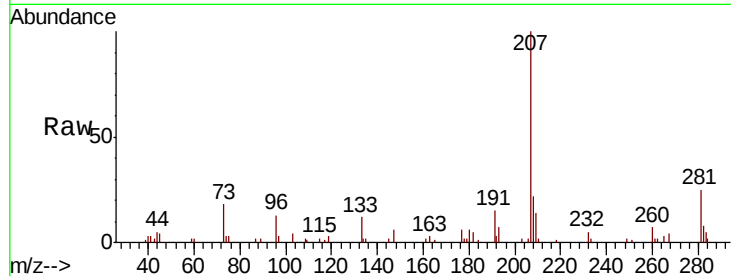




#93
 1,2,4-Trichlorobenzene
 Concen: 0.353 ug/l
 RT: 14.92 min Scan# 4089
 Delta R.T. 0.01 min
 Lab File: VN059429.D
 Acq: 27 Nov 2019 18:26

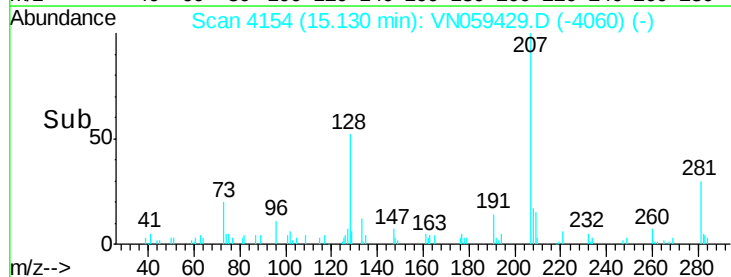
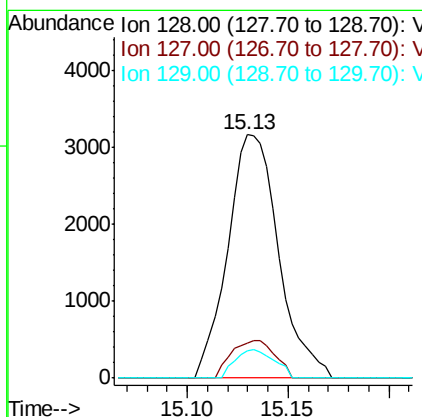
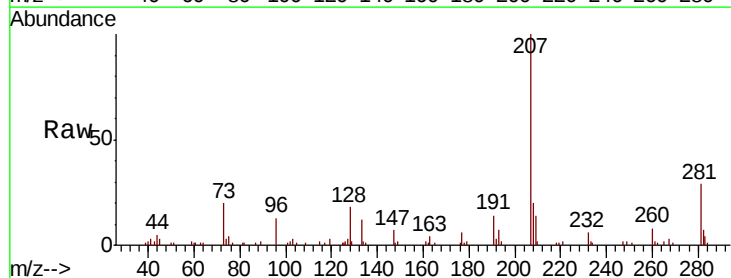
Instrument :
 MSVOA_N
 ClientSampled :

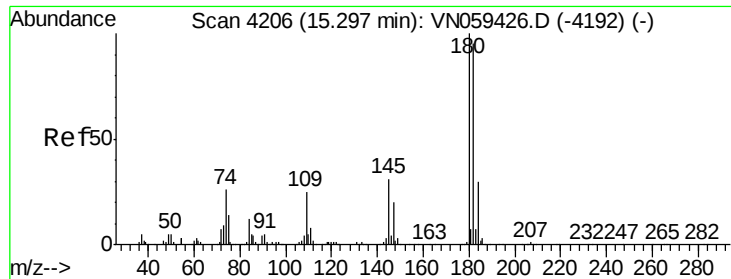
Tot Ion:180 Resp: 1251
 Ion Ratio Lower Upper
 180 100
 182 86.9 47.3 142.0
 145 22.1 14.8 44.4



#95
 Naphthalene
 Concen: Below Cal
 RT: 15.13 min Scan# 4154
 Delta R.T. 0.00 min
 Lab File: VN059429.D
 Acq: 27 Nov 2019 18:26

Tgt Ion:128 Resp: 5578
 Ion Ratio Lower Upper
 128 100
 127 13.3 10.1 15.1
 129 9.1 8.6 12.8

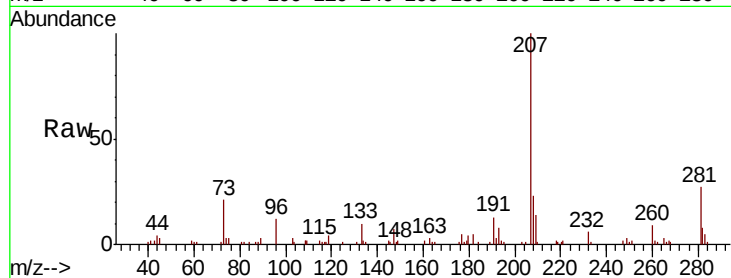




#96
 1,2,3-Trichlorobenzene
 Concen: Below Cal
 RT: 15.30 min Scan# 4207
 Delta R.T. 0.00 min
 Lab File: VN059429.D
 Acq: 27 Nov 2019 18:26

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	87.3	47.5	142.6
145	5.7	15.7	47.1



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

