

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN090119\
 Data File : VN057629.D
 Acq On : 31 Aug 2019 21:39
 Operator : JC/SP
 Sample : K4517-34
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Aug 31 23:49:12 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N090119W.M
 Quant Title : SW846 8260
 QLast Update : Sat Aug 31 15:54:32 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	304888	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	532913	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	457733	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	139079	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	258111	37.48	ug/l	0.00
Spiked Amount			Recovery	=	74.96%	
35) Dibromofluoromethane	7.58	113	160505	34.49	ug/l	0.00
Spiked Amount			Recovery	=	68.98%	
50) Toluene-d8	10.09	98	667198	37.34	ug/l	0.00
Spiked Amount			Recovery	=	74.68%	
62) 4-Bromofluorobenzene	12.40	95	205058	30.18	ug/l	0.00
Spiked Amount			Recovery	=	60.36%	

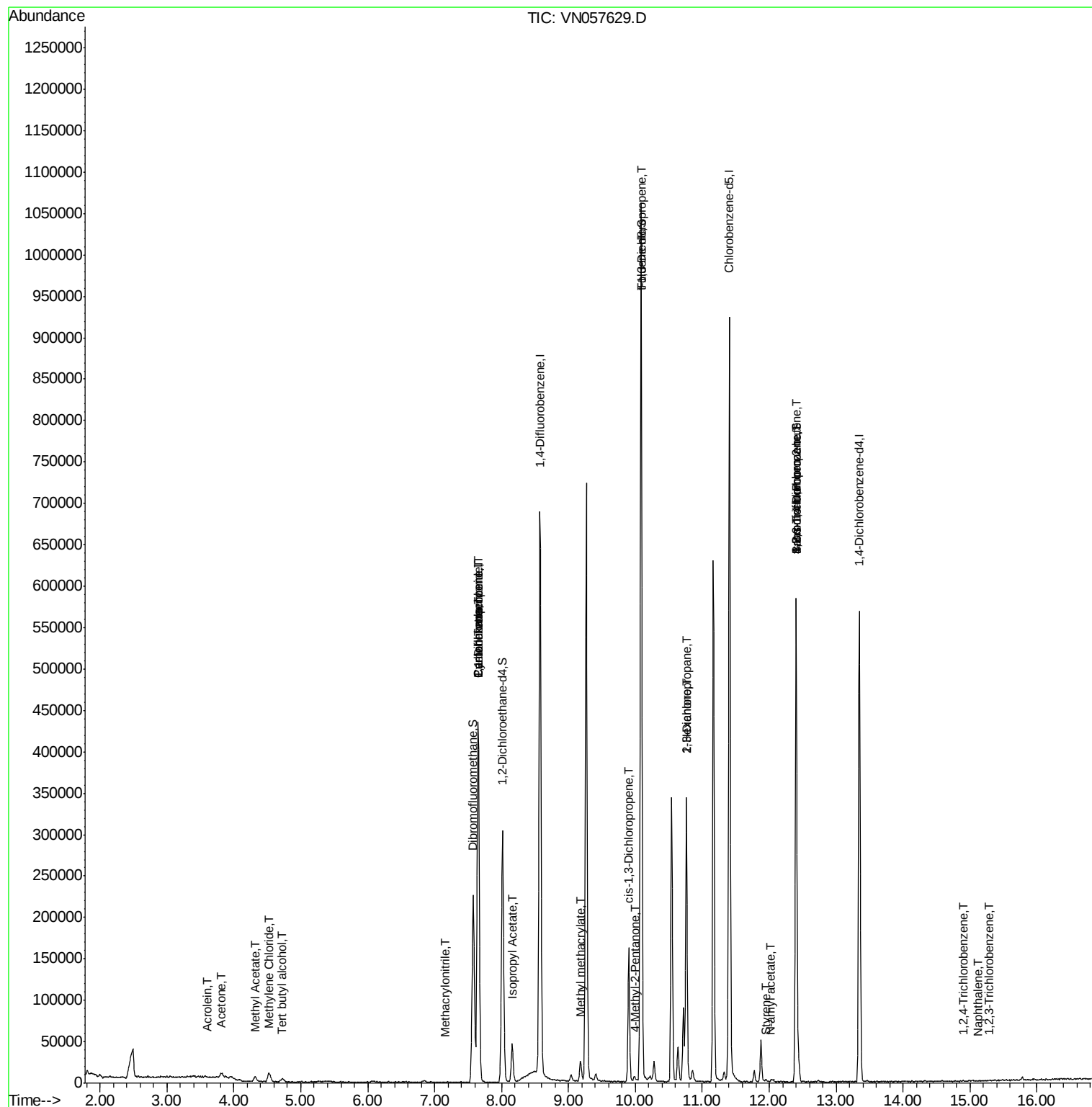
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.73	59	4104	5.681	ug/l #	81
13) Acrolein	3.60	56	239	0.832	ug/l #	1
16) Acetone	3.80	43	6690	3.466	ug/l #	87
18) Methyl Acetate	4.31	43	12394	1.870	ug/l	93
20) Methylene Chloride	4.52	84	6761	1.415	ug/l	91
31) Cyclohexane	7.64	56	10874	1.192	ug/l #	45
36) 1,1-Dichloropropene	7.65	75	31073	4.398	ug/l #	52
38) Carbon Tetrachloride	7.65	117	35951	5.684	ug/l #	13
41) Methacrylonitrile	7.15	41	93	2.306	ug/l #	37
43) Isopropyl Acetate	8.16	43	52617	4.345	ug/l	99
48) Methyl methacrylate	9.18	41	4046	0.654	ug/l #	15
51) 4-Methyl-2-Pentanone	9.99	43	3537	0.510	ug/l #	83
53) t-1,3-Dichloropropene	10.10	75	184	3.242	ug/l #	1
54) cis-1,3-Dichloropropene	9.90	75	25643	4.607	ug/l #	65
57) 1,3-Dichloropropane	10.76	76	3645	0.431	ug/l #	43
59) 2-Hexanone	10.76	43	56962	11.177	ug/l #	57
70) Styrene	11.96	104	112	2.591	ug/l #	23
71) Bromoform	12.39	173	599	6.396	ug/l #	28
74) N-amyl acetate	12.03	43	1961	0.296	ug/l #	53
76) 1,2,3-Trichloropropane	12.40	75	122584	33.508	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	122584	114.858	ug/l #	1
93) 1,2,4-Trichlorobenzene	14.90	180	58	8.320	ug/l #	1
95) Naphthalene	15.13	128	319	6.947	ug/l #	70
96) 1,2,3-Trichlorobenzene	15.28	180	235	7.863	ug/l #	40

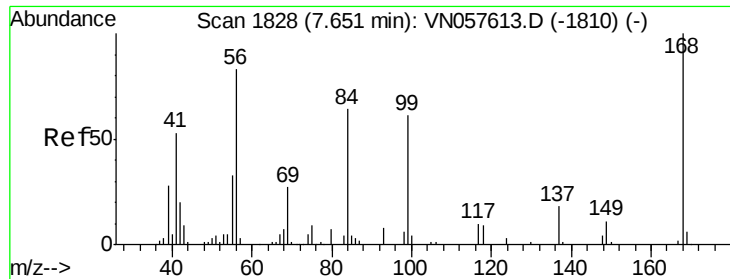
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Sat Aug 31 15:54:32 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: VN057629.D

Acq: 31 Aug 2019 21:39

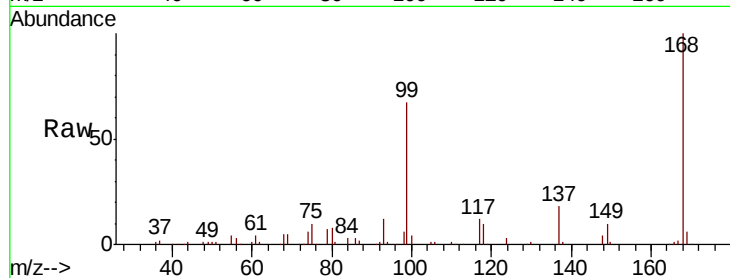
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 304888

Ion Ratio Lower Upper

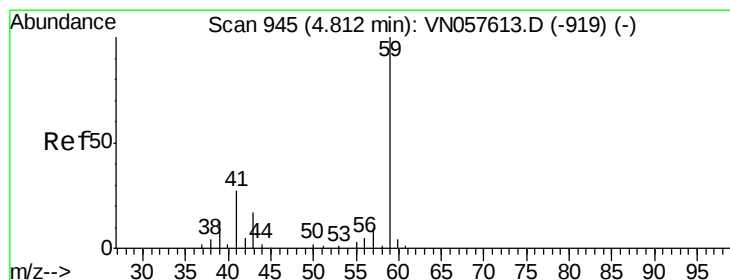
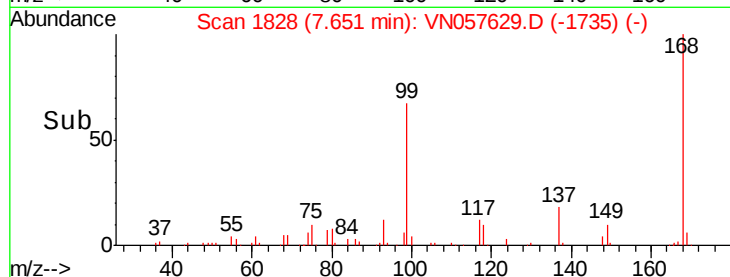
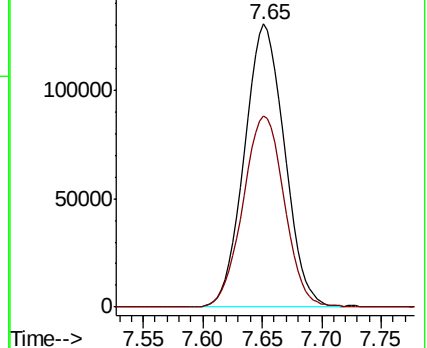
168 100

99 67.4 54.2 81.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#11

Tert butyl alcohol

Concen: 5.681 ug/l

RT: 4.73 min Scan# 919

Delta R.T. -0.08 min

Lab File: VN057629.D

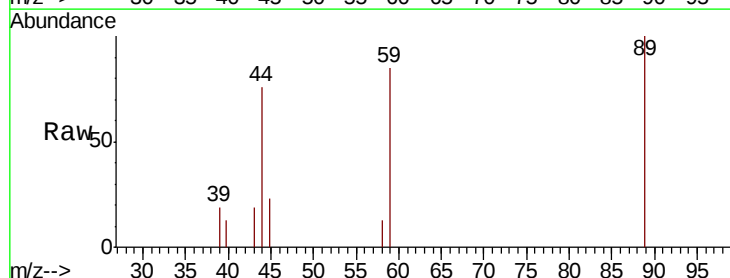
Acq: 31 Aug 2019 21:39

Tgt Ion: 59 Resp: 4104

Ion Ratio Lower Upper

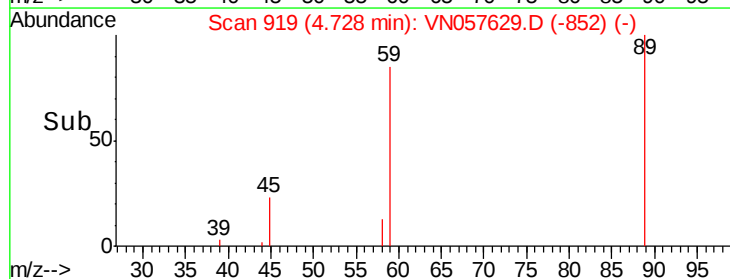
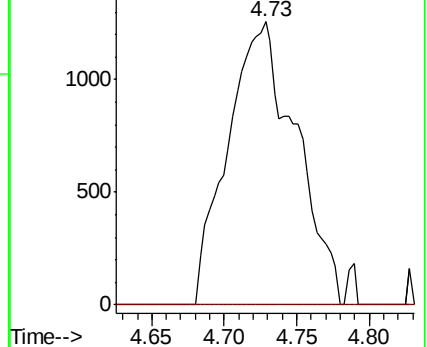
59 100

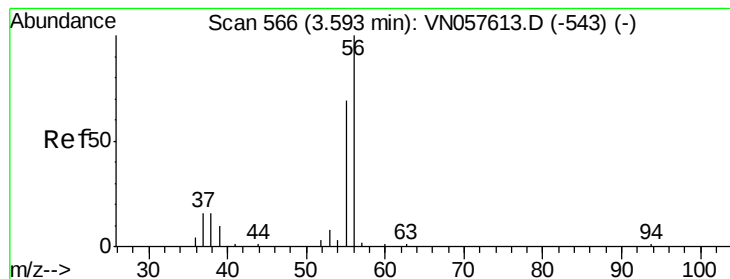
57 0.0 5.0 7.6#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN





#13

Acrolein

Concen: 0.832 ug/l

RT: 3.60 min Scan# 568

Delta R.T. 0.01 min

Lab File: VN057629.D

Acq: 31 Aug 2019 21:39

Instrument :

MSVOA_N

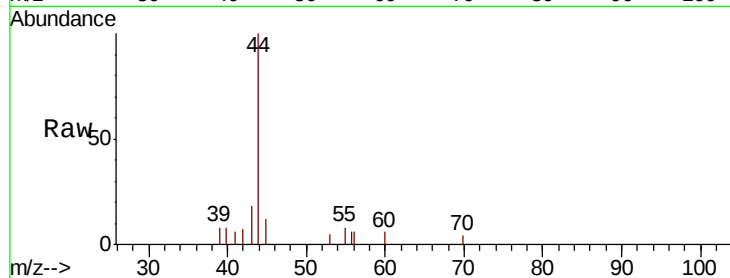
ClientSampled :

Tot Ion: 56 Resp: 239

Ion Ratio Lower Upper

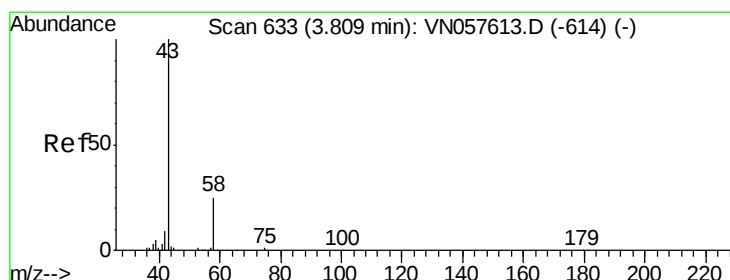
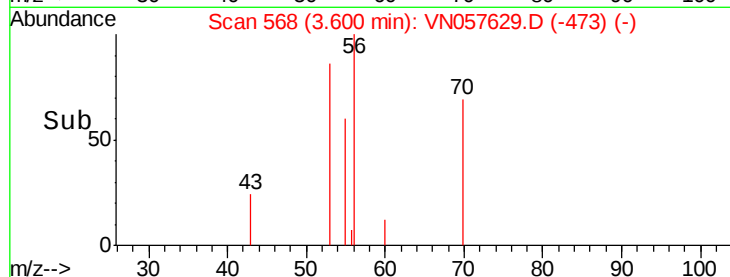
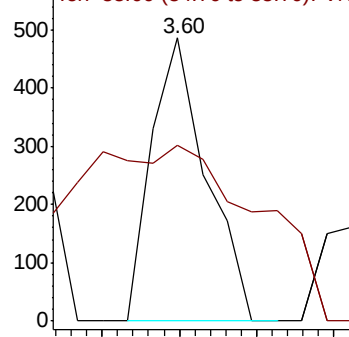
56 100

55 238.5 56.5 84.7#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#16

Acetone

Concen: 3.466 ug/l

RT: 3.80 min Scan# 631

Delta R.T. -0.01 min

Lab File: VN057629.D

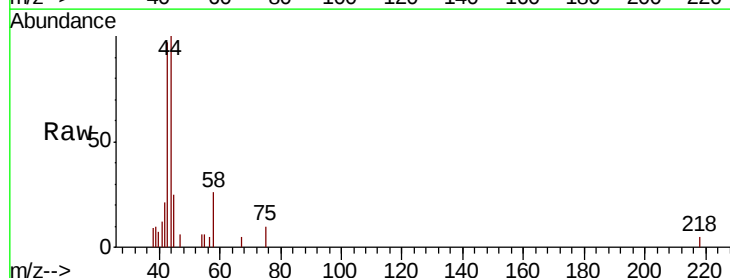
Acq: 31 Aug 2019 21:39

Tgt Ion: 43 Resp: 6690

Ion Ratio Lower Upper

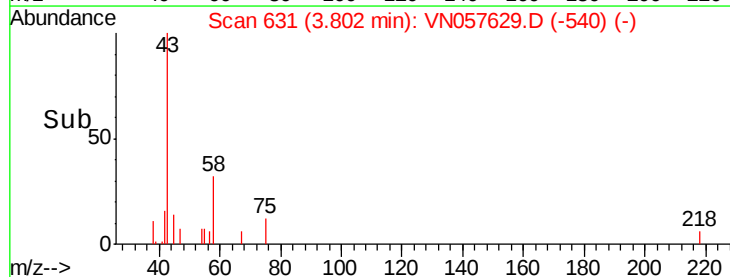
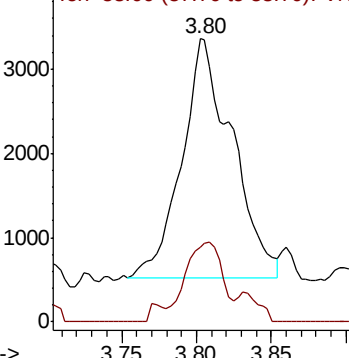
43 100

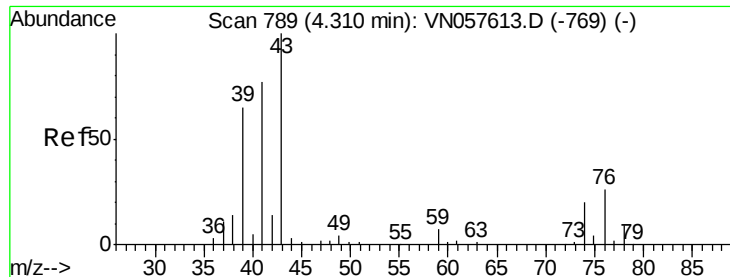
58 31.5 20.0 30.0#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

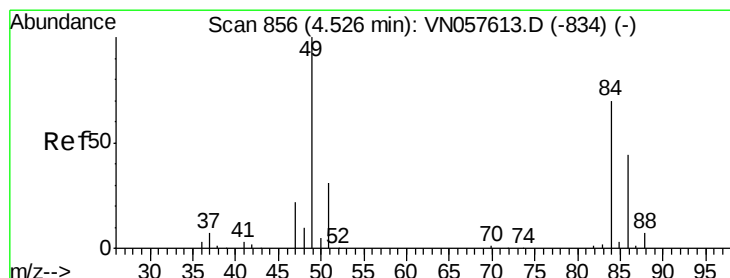
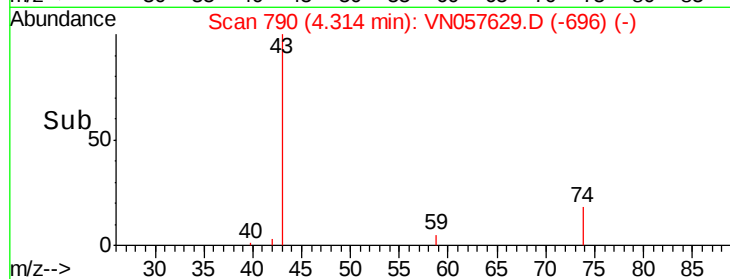
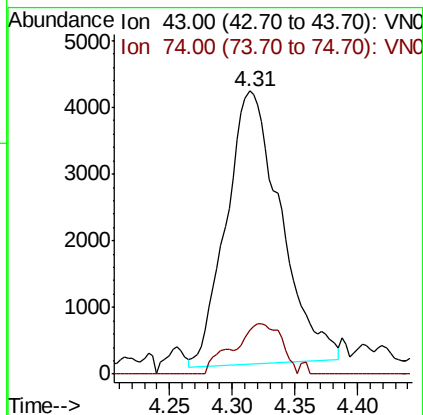
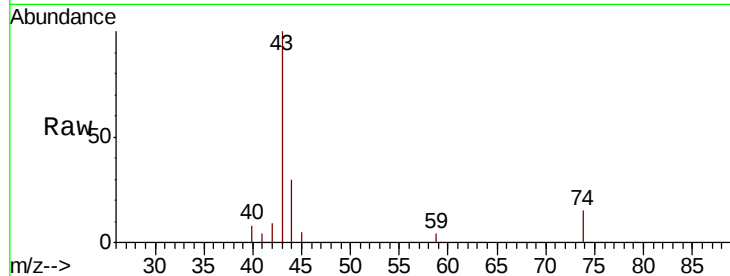




#18
Methyl Acetate
Concen: 1.870 ug/l
RT: 4.31 min Scan# 790
Delta R.T. 0.00 min
Lab File: VN057629.D
Acq: 31 Aug 2019 21:39

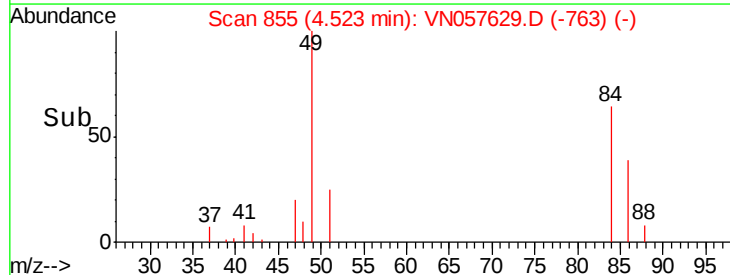
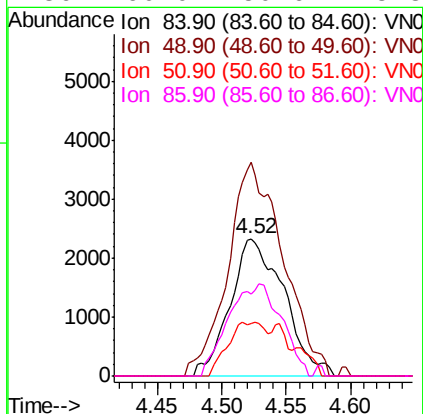
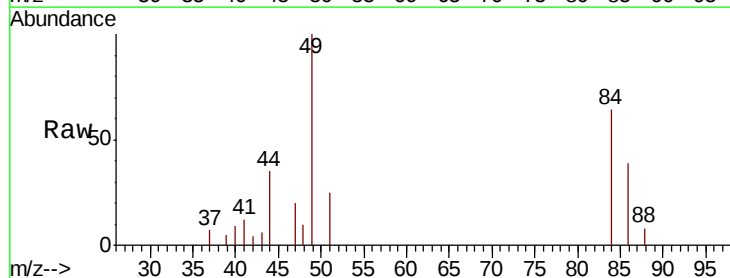
Instrument :
MSVOA_N
ClientSampled :

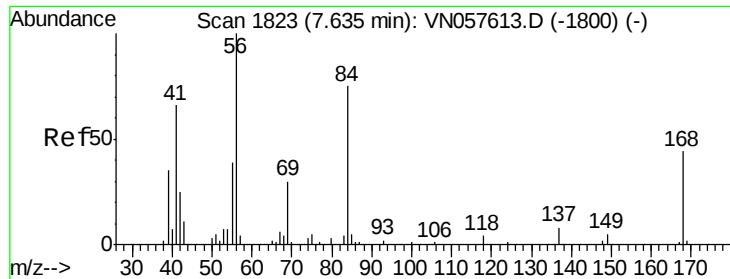
Tot Ion: 43 Resp: 12394
Ion Ratio Lower Upper
43 100
74 16.2 15.7 23.5



#20
Methylene Chloride
Concen: 1.415 ug/l
RT: 4.52 min Scan# 855
Delta R.T. -0.00 min
Lab File: VN057629.D
Acq: 31 Aug 2019 21:39

Tgt Ion: 84 Resp: 6761
Ion Ratio Lower Upper
84 100
49 155.9 113.8 170.6
51 38.4 35.0 52.6
86 60.0 50.6 75.8

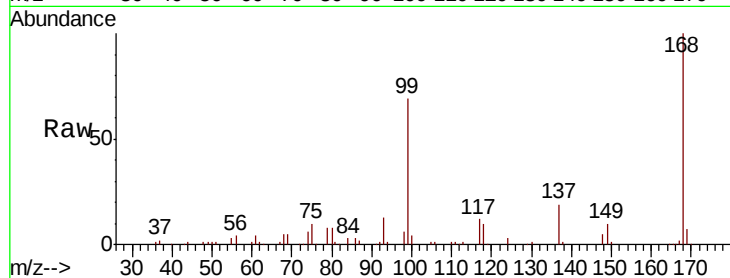




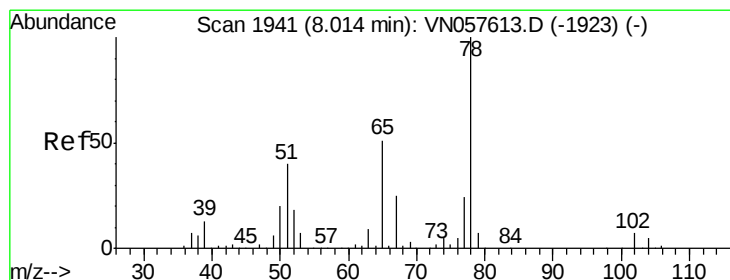
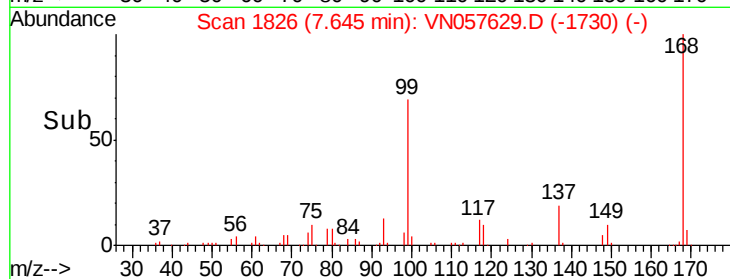
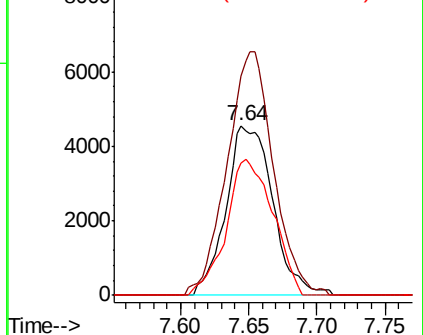
#31
Cyclohexane
Concen: 1.192 ug/l
RT: 7.64 min Scan# 1826
Delta R.T. 0.01 min
Lab File: VN057629.D
Acq: 31 Aug 2019 21:39

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 10874
Ion Ratio Lower Upper
56 100
69 128.8 24.4 36.6#
84 77.9 59.9 89.9

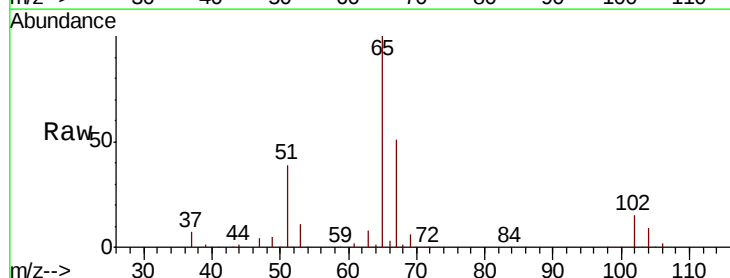


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

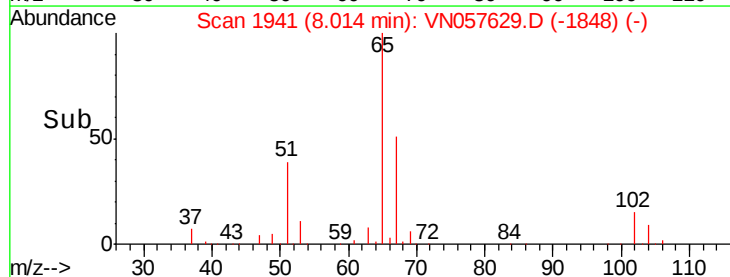
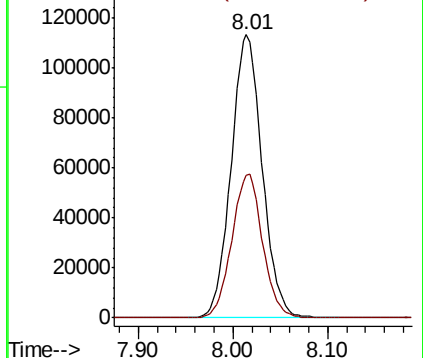


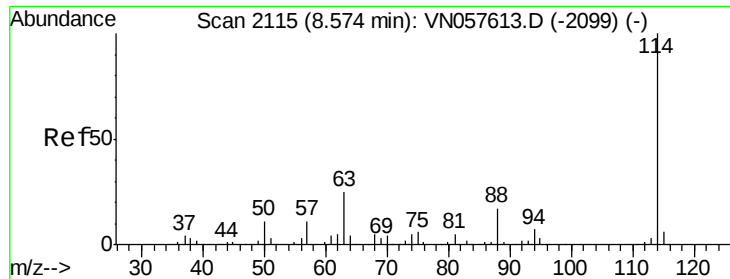
#33
1,2-Dichloroethane-d4
Concen: 37.476 ug/l
RT: 8.01 min Scan# 1941
Delta R.T. 0.00 min
Lab File: VN057629.D
Acq: 31 Aug 2019 21:39

Tgt Ion: 65 Resp: 258111
Ion Ratio Lower Upper
65 100
67 50.3 0.0 102.2



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

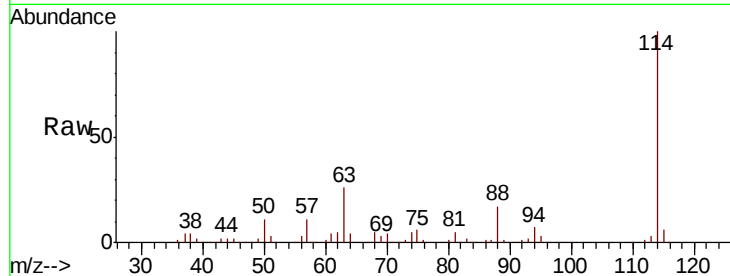




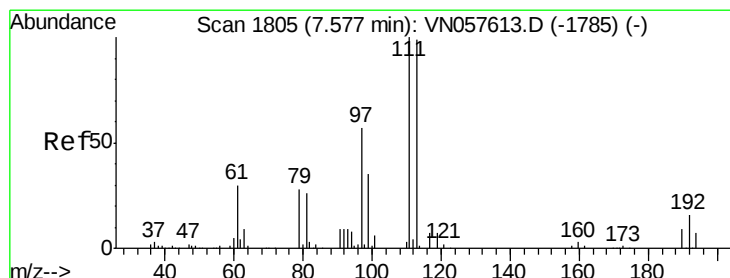
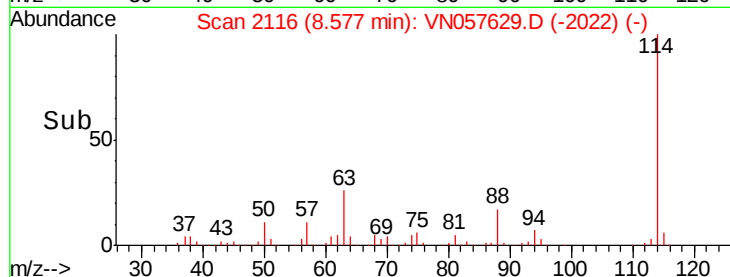
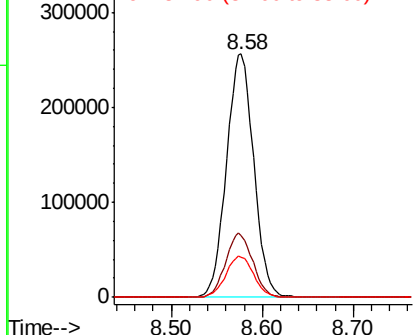
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2116
 Delta R.T. 0.00 min
 Lab File: VN057629.D
 Acq: 31 Aug 2019 21:39

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:114 Resp: 532913
 Ion Ratio Lower Upper
 114 100
 63 25.6 0.0 49.0
 88 16.6 0.0 33.0

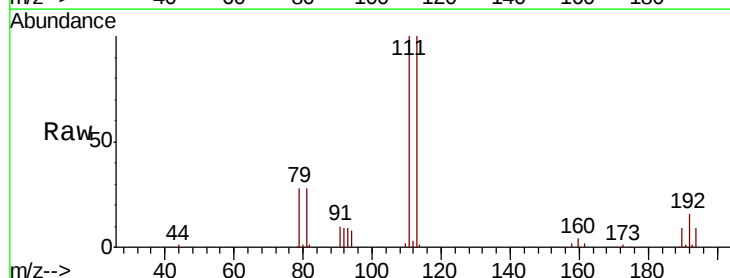


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

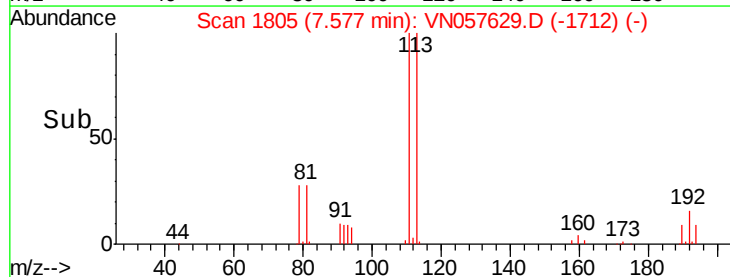
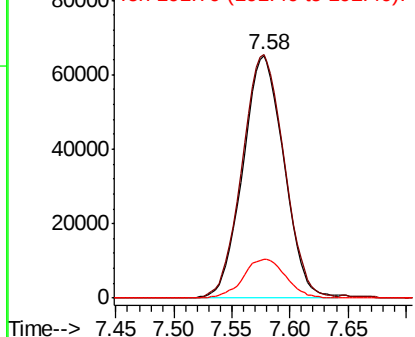


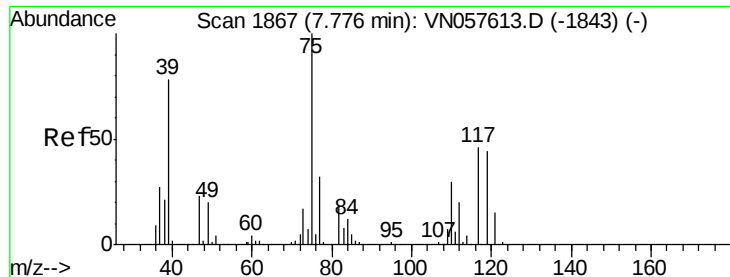
#35
 Dibromofluoromethane
 Concen: 34.489 ug/l
 RT: 7.58 min Scan# 1805
 Delta R.T. 0.00 min
 Lab File: VN057629.D
 Acq: 31 Aug 2019 21:39

Tgt Ion:113 Resp: 160505
 Ion Ratio Lower Upper
 113 100
 111 103.1 81.3 121.9
 192 16.8 13.5 20.3



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

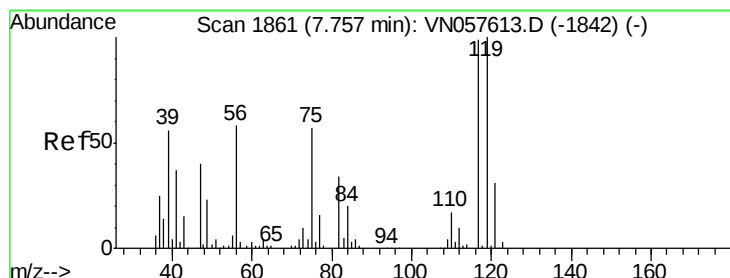
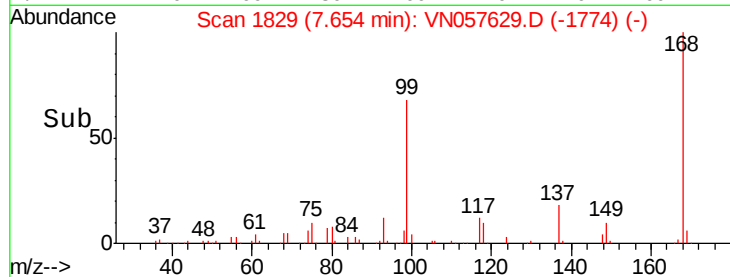
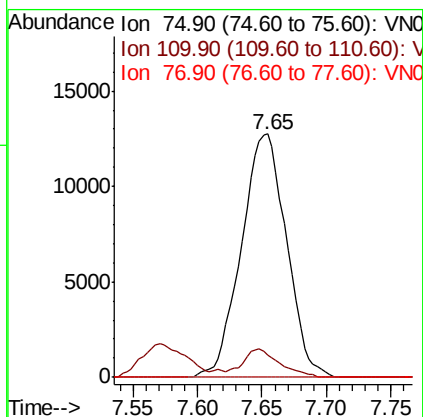
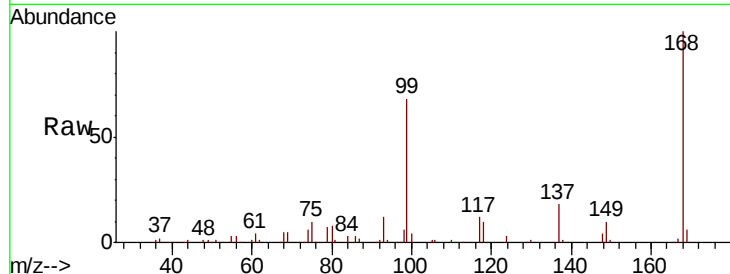




#36
 1,1-Dichloropropene
 Concen: 4.398 ug/l
 RT: 7.65 min Scan# 1829
 Delta R.T. -0.12 min
 Lab File: VN057629.D
 Acq: 31 Aug 2019 21:39

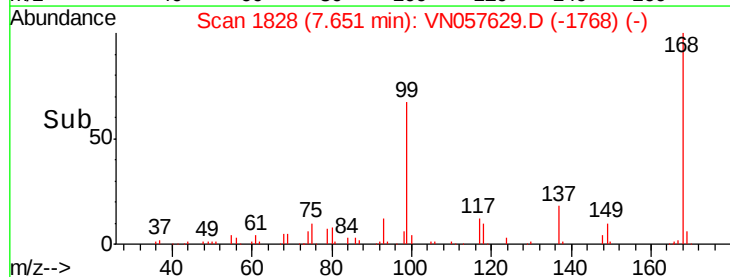
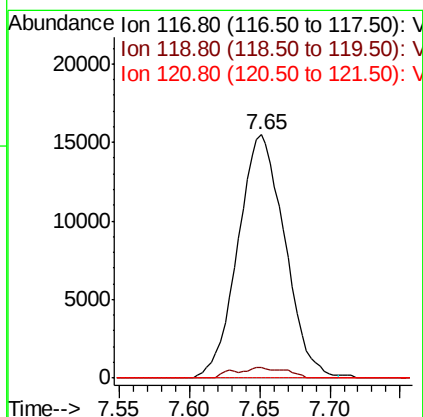
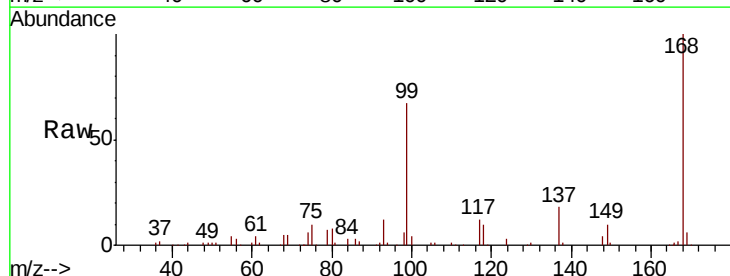
Instrument :
 MSVOA_N
 ClientSampleId :

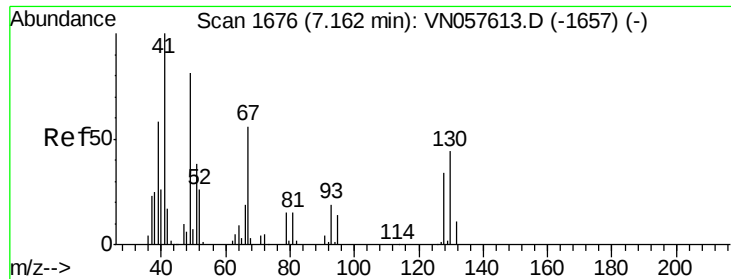
Tot Ion: 75 Resp: 31073
 Ion Ratio Lower Upper
 75 100
 110 9.5 15.6 46.8#
 77 0.0 24.9 37.3#



#38
 Carbon Tetrachloride
 Concen: 5.684 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.11 min
 Lab File: VN057629.D
 Acq: 31 Aug 2019 21:39

Tgt Ion: 117 Resp: 35951
 Ion Ratio Lower Upper
 117 100
 119 4.2 80.6 120.8#
 121 0.0 25.1 37.7#

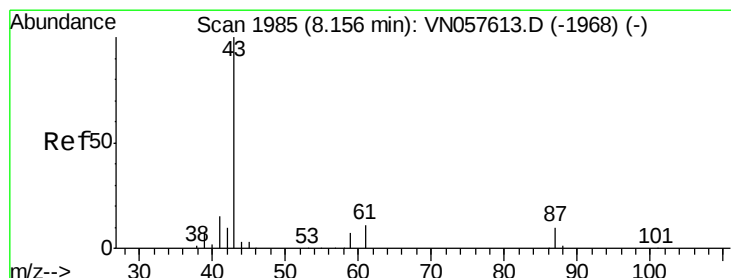
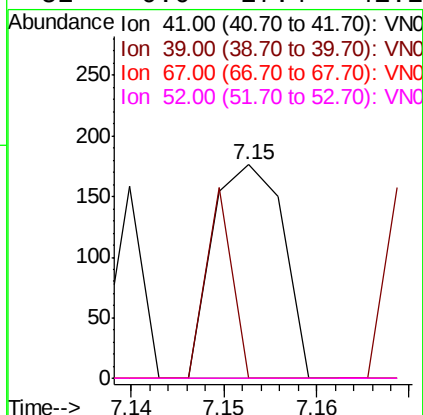
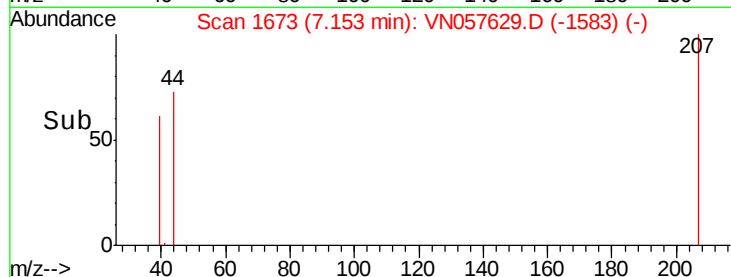
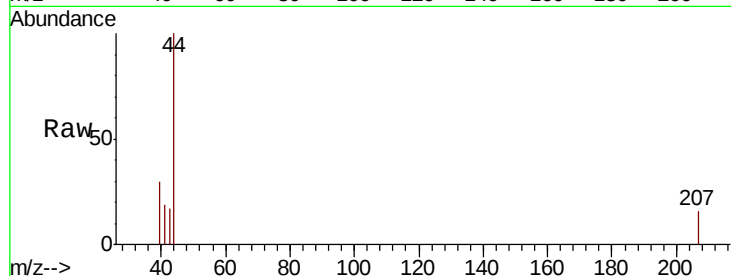




#41
Methacrylonitrile
Concen: 2.306 ug/l
RT: 7.15 min Scan# 1673
Delta R.T. -0.01 min
Lab File: VN057629.D
Acq: 31 Aug 2019 21:39

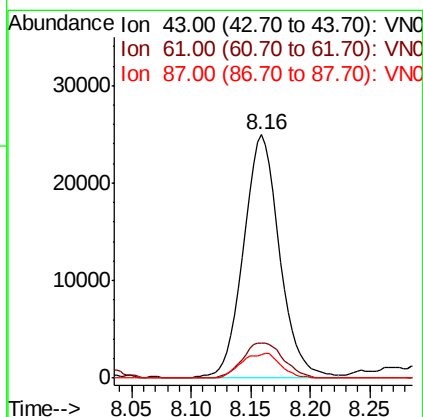
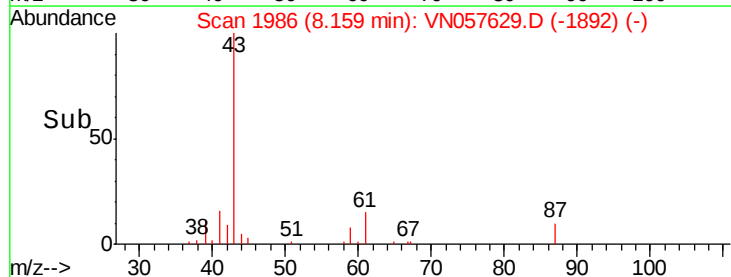
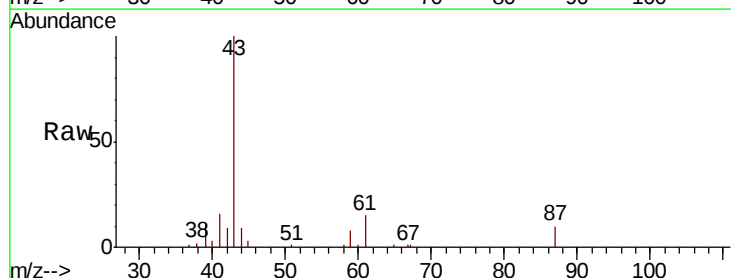
Instrument :
MSVOA_N
ClientSampled :

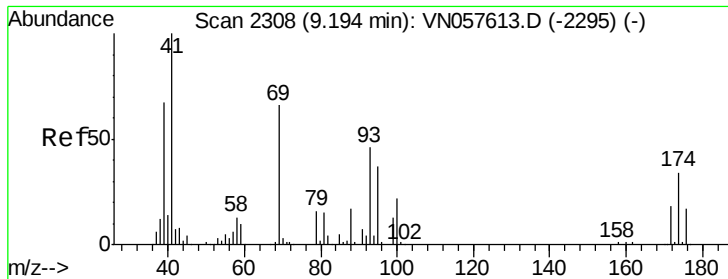
Tot Ion: 41 Resp: 93
Ion Ratio Lower Upper
41 100
39 32.3 50.6 75.8#
67 0.0 56.9 85.3#
52 0.0 27.4 41.2#



#43
Isopropyl Acetate
Concen: 4.345 ug/l
RT: 8.16 min Scan# 1986
Delta R.T. 0.00 min
Lab File: VN057629.D
Acq: 31 Aug 2019 21:39

Tgt Ion: 43 Resp: 52617
Ion Ratio Lower Upper
43 100
61 16.3 13.1 19.7
87 11.0 8.1 12.1

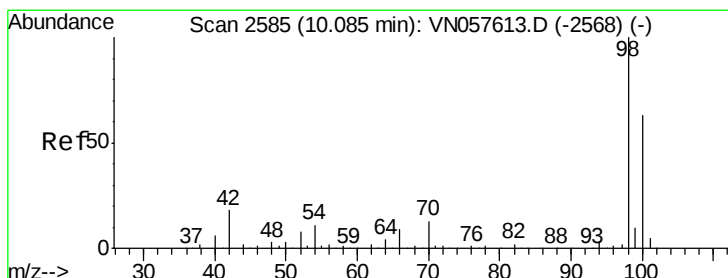
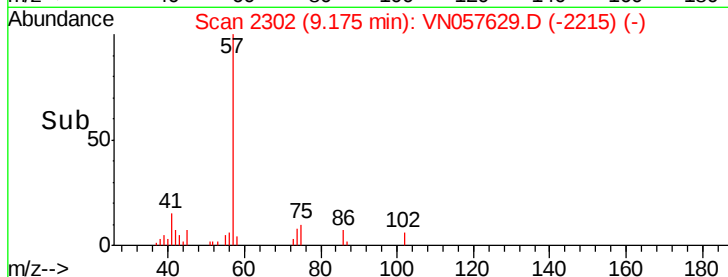
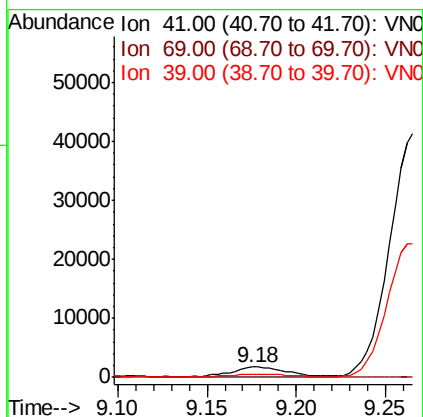
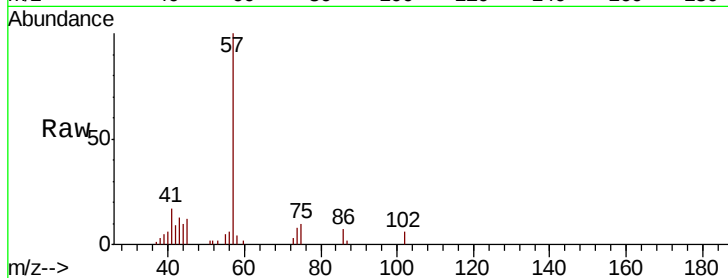




#48
Methyl methacrylate
Concen: 0.654 ug/l
RT: 9.18 min Scan# 2302
Delta R.T. -0.02 min
Lab File: VN057629.D
Acq: 31 Aug 2019 21:39

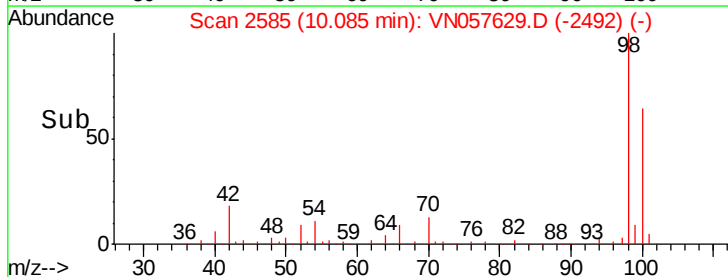
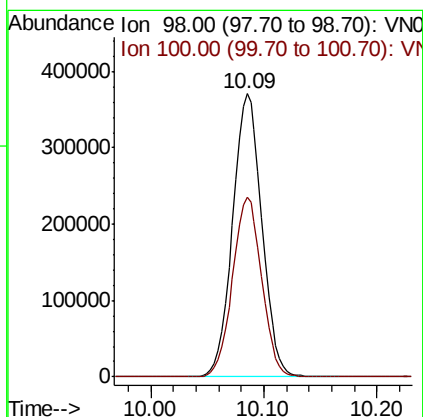
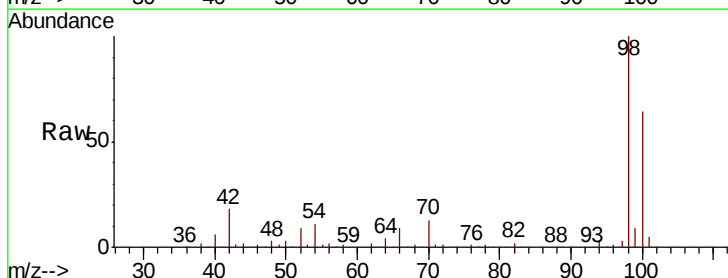
Instrument :
MSVOA_N
ClientSampled :

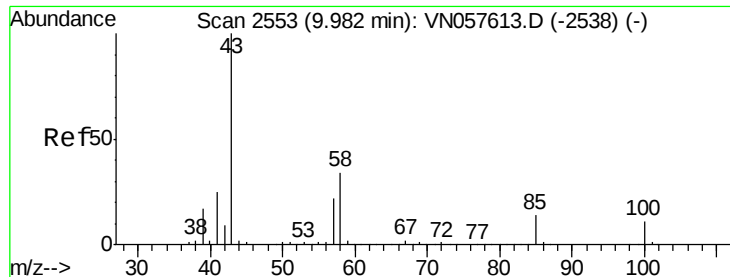
Tot Ion: 41 Resp: 4046
Ion Ratio Lower Upper
41 100
69 0.0 55.1 82.7#
39 0.0 55.4 83.2#



#50
Toluene-d8
Concen: 37.342 ug/l
RT: 10.09 min Scan# 2585
Delta R.T. 0.00 min
Lab File: VN057629.D
Acq: 31 Aug 2019 21:39

Tgt Ion: 98 Resp: 667198
Ion Ratio Lower Upper
98 100
100 63.2 49.8 74.8





#51

4-Methyl-2-Pentanone

Concen: 0.510 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN057629.D

Acq: 31 Aug 2019 21:39

Instrument :

MSVOA_N

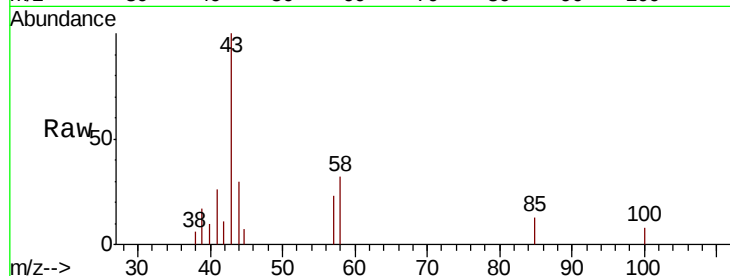
ClientSampled :

Tot Ion: 43 Resp: 3537

Ion Ratio Lower Upper

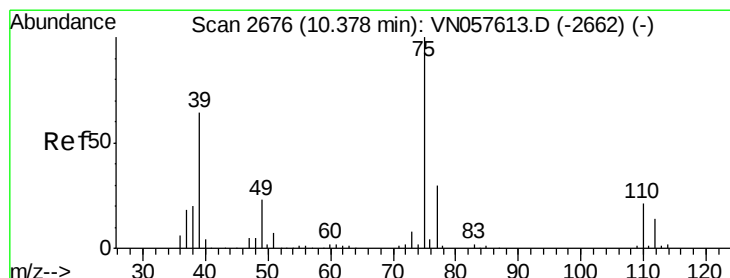
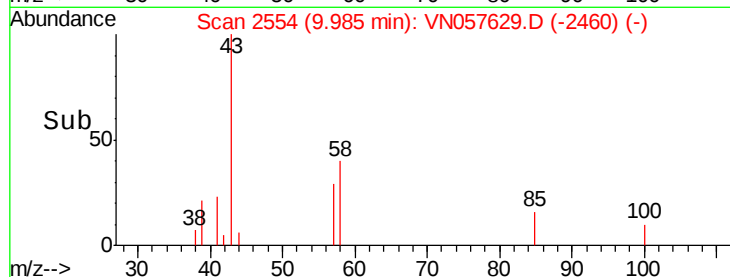
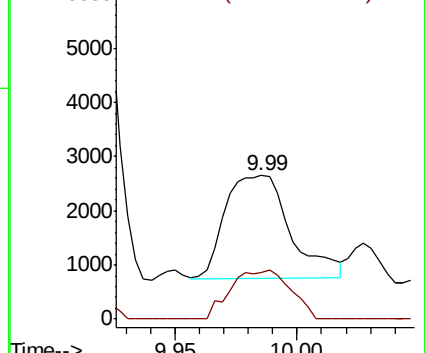
43 100

58 43.5 26.9 40.3#



Abundance Ion 43.00 (42.70 to 43.70): VN057613.D (-2538) (-)

Ion 58.00 (57.70 to 58.70): VN057613.D (-2538) (-)



#53

t-1,3-Dichloropropene

Concen: 3.242 ug/l

RT: 10.10 min Scan# 2589

Delta R.T. -0.28 min

Lab File: VN057629.D

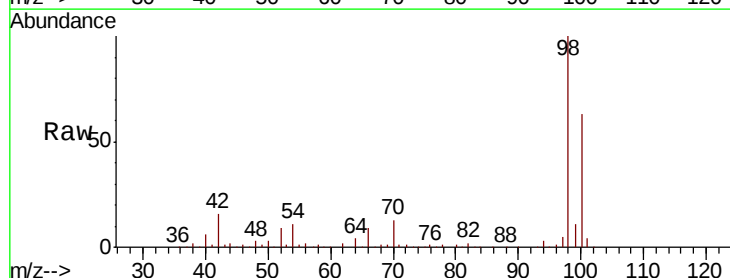
Acq: 31 Aug 2019 21:39

Tgt Ion: 75 Resp: 184

Ion Ratio Lower Upper

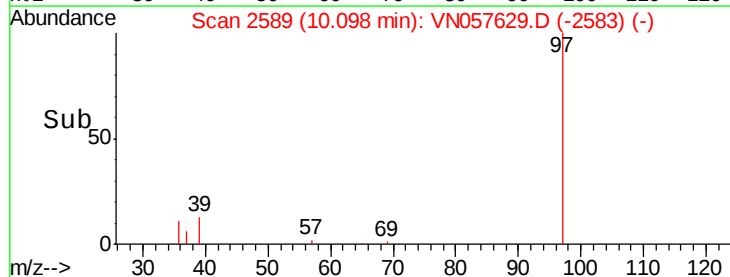
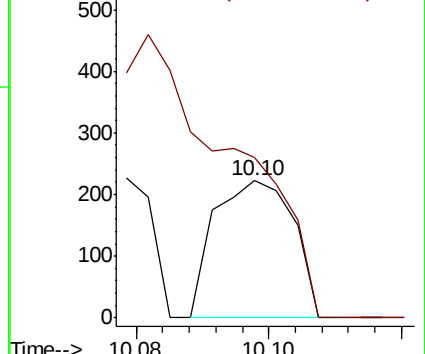
75 100

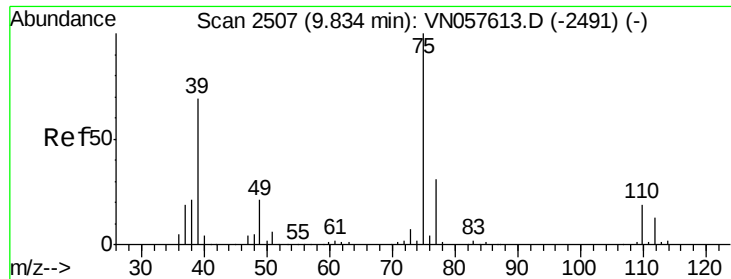
77 117.6 24.1 36.1#



Abundance Ion 74.90 (74.60 to 75.60): VN057613.D (-2662) (-)

Ion 76.90 (76.60 to 77.60): VN057613.D (-2662) (-)





#54

cis-1,3-Dichloropropene

Concen: 4.607 ug/l

RT: 9.90 min Scan# 2528

Delta R.T. 0.07 min

Lab File: VN057629.D

Acq: 31 Aug 2019 21:39

Instrument :

MSVOA_N

ClientSampleId :

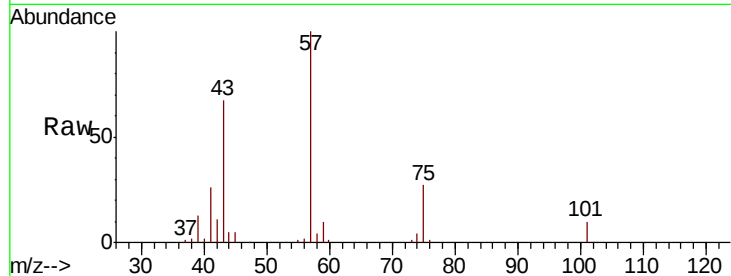
Tot Ion: 75 Resp: 25643

Ion Ratio Lower Upper

75 100

77 0.0 24.8 37.2#

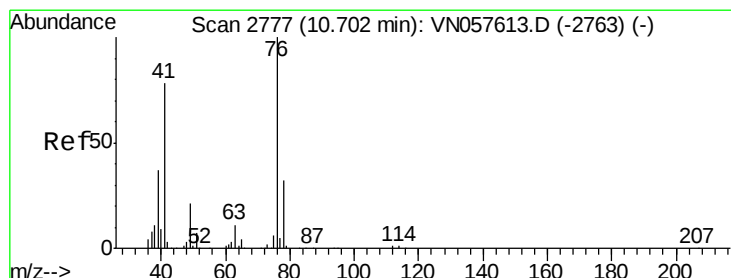
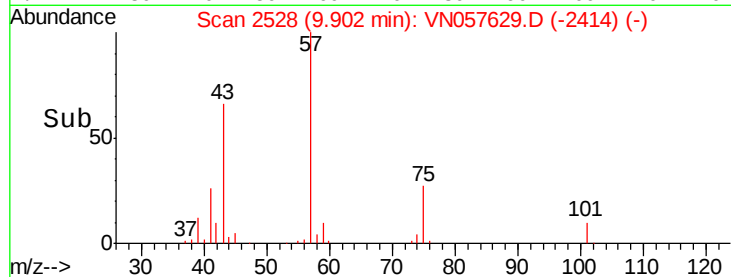
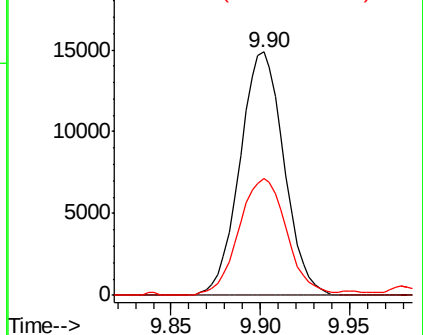
39 47.8 55.0 82.4#



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



#57

1,3-Dichloropropane

Concen: 0.431 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.06 min

Lab File: VN057629.D

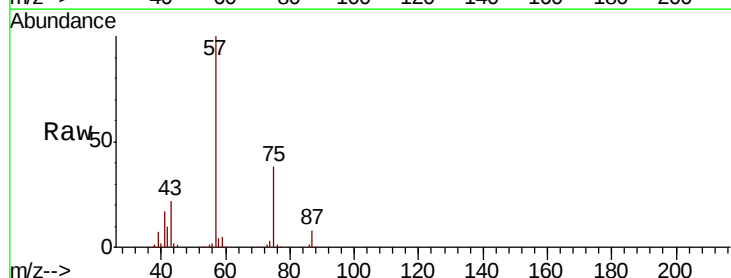
Acq: 31 Aug 2019 21:39

Tgt Ion: 76 Resp: 3645

Ion Ratio Lower Upper

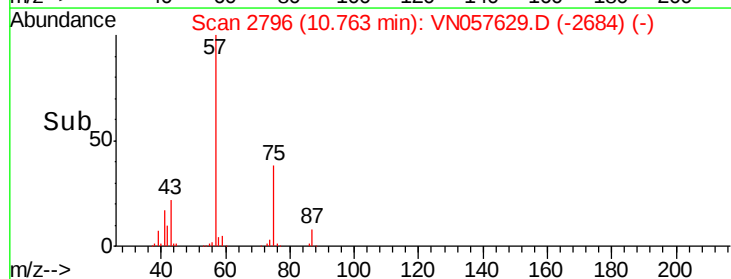
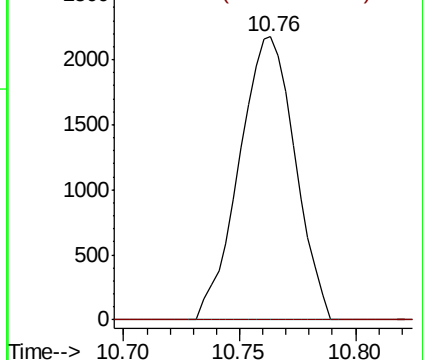
76 100

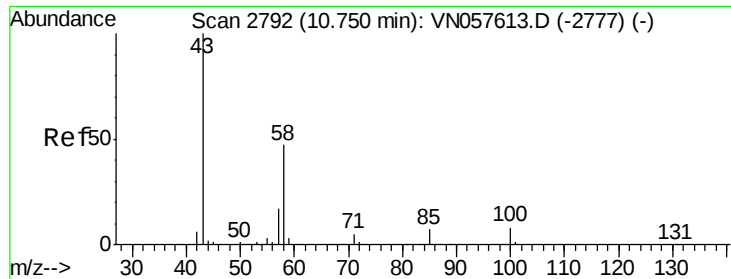
78 0.0 25.4 38.2#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

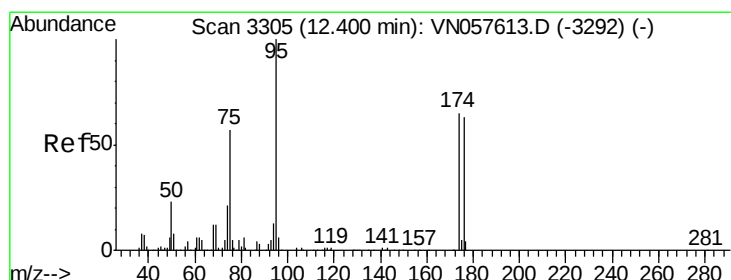
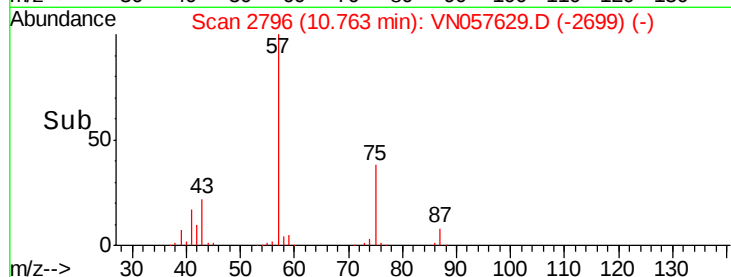
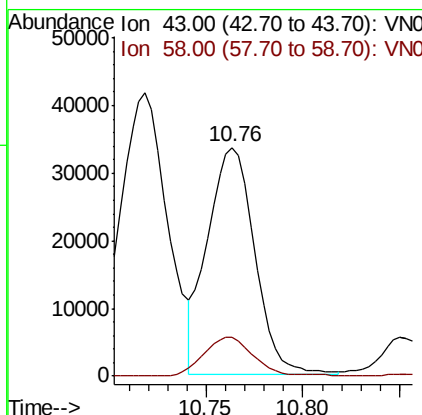
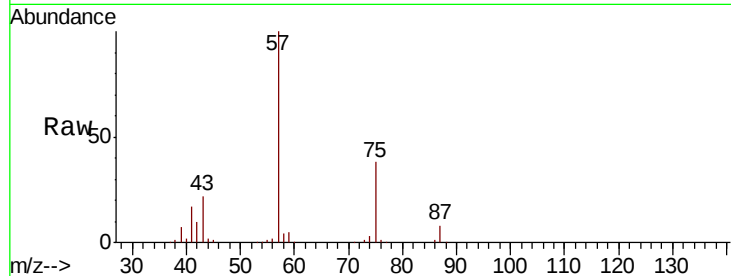




#59
2-Hexanone
Concen: 11.177 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN057629.D
Acq: 31 Aug 2019 21:39

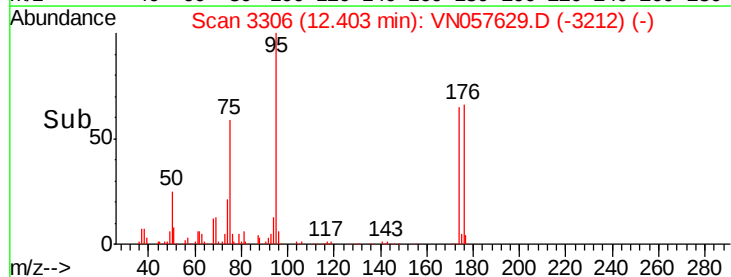
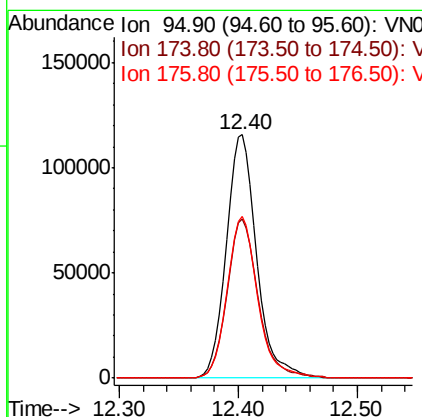
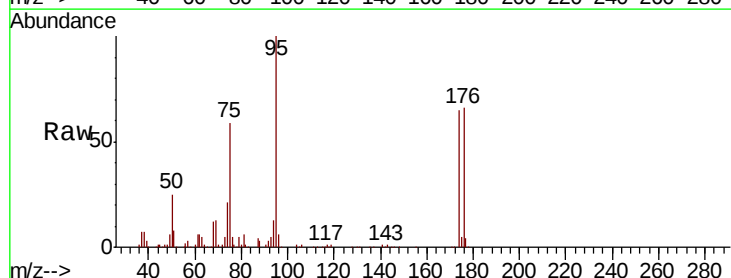
Instrument :
MSVOA_N
ClientSampleId :

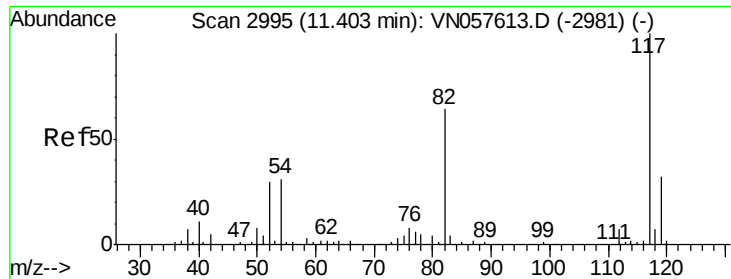
Tot Ion: 43 Resp: 56962
Ion Ratio Lower Upper
43 100
58 18.4 23.5 70.5#



#62
4-Bromofluorobenzene
Concen: 30.181 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN057629.D
Acq: 31 Aug 2019 21:39

Tgt Ion: 95 Resp: 205058
Ion Ratio Lower Upper
95 100
174 66.6 0.0 134.8
176 66.9 0.0 131.6

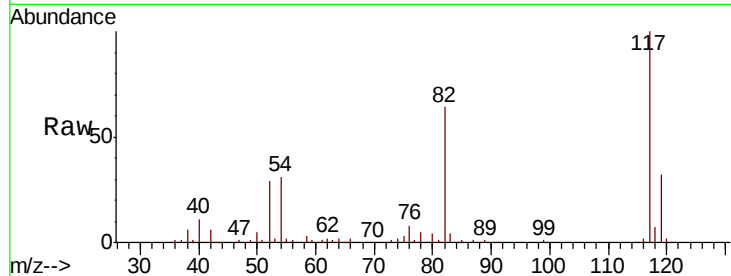




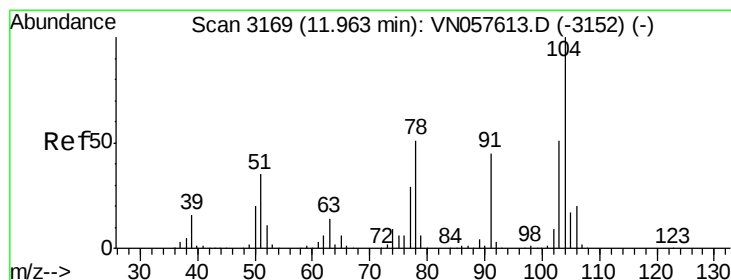
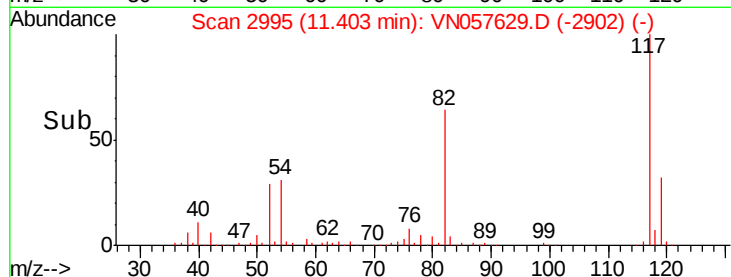
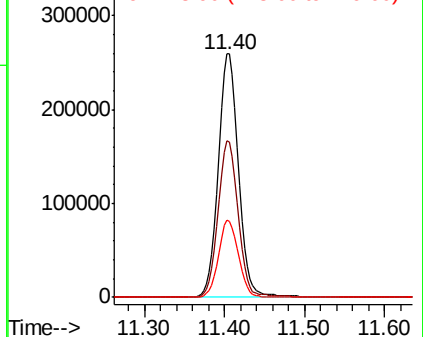
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2995
Delta R.T. 0.00 min
Lab File: VN057629.D
Acq: 31 Aug 2019 21:39

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 457733
Ion Ratio Lower Upper
117 100
82 64.3 51.6 77.4
119 31.8 25.8 38.6

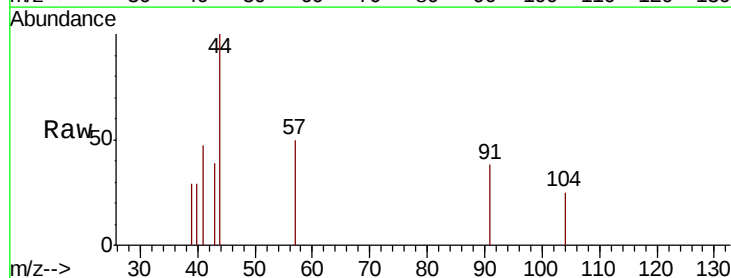


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VN
Ion 118.90 (118.60 to 119.60): V

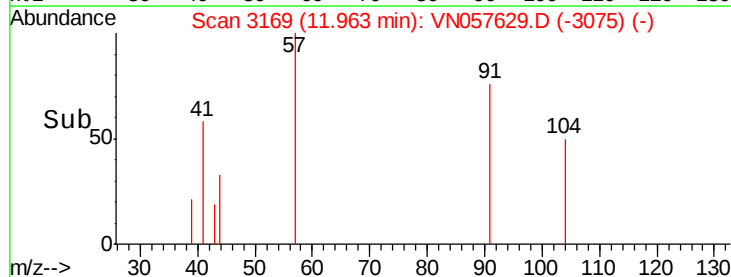
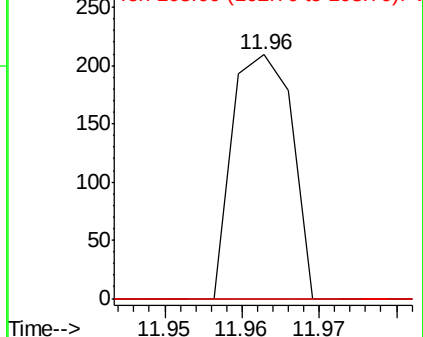


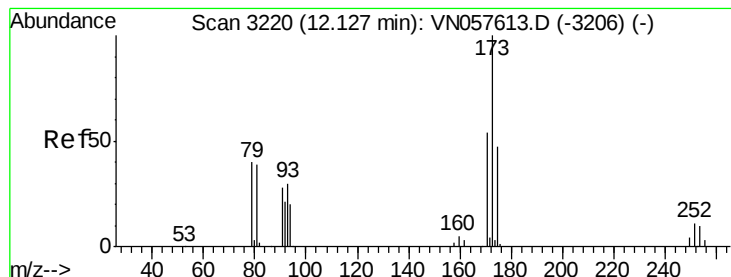
#70
Styrene
Concen: 2.591 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN057629.D
Acq: 31 Aug 2019 21:39

Tgt Ion:104 Resp: 112
Ion Ratio Lower Upper
104 100
78 0.0 46.6 70.0#
103 0.0 44.7 67.1#



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VN
Ion 103.00 (102.70 to 103.70): V





#71

Bromoform

Concen: 6.396 ug/l

RT: 12.39 min Scan# 3303

Delta R.T. 0.27 min

Lab File: VN057629.D

Acq: 31 Aug 2019 21:39

Instrument :

MSVOA_N

ClientSampled :

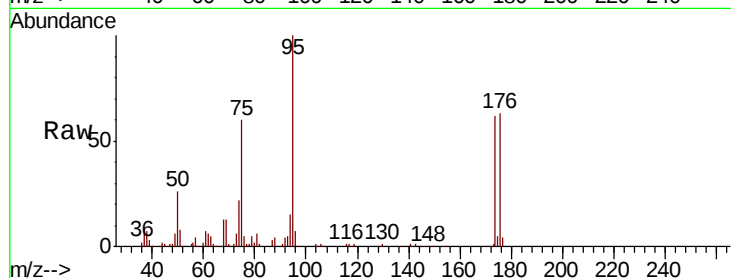
Tot Ion:173 Resp: 599

Ion Ratio Lower Upper

173 100

175 0.0 24.4 73.4#

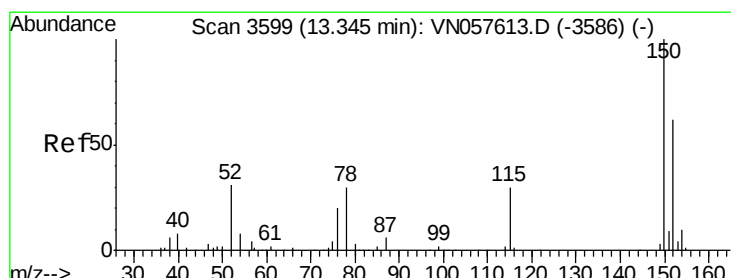
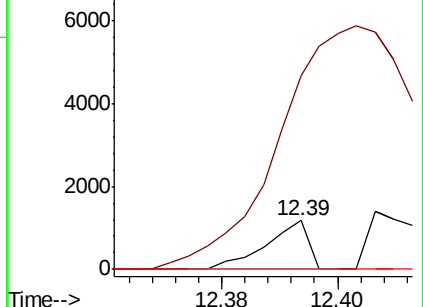
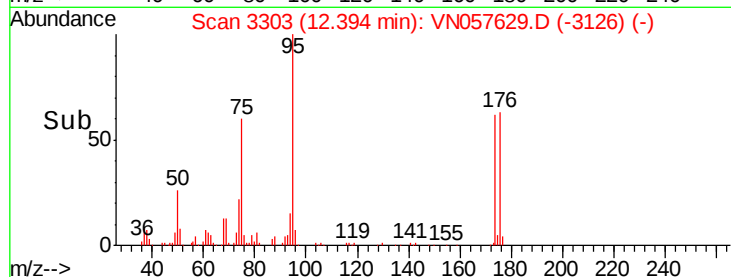
254 0.0 0.0 0.0



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# 3599

Delta R.T. 0.00 min

Lab File: VN057629.D

Acq: 31 Aug 2019 21:39

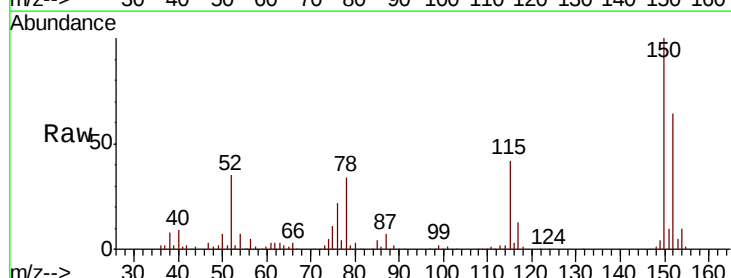
Tgt Ion:152 Resp: 139079

Ion Ratio Lower Upper

152 100

115 64.3 33.2 99.6

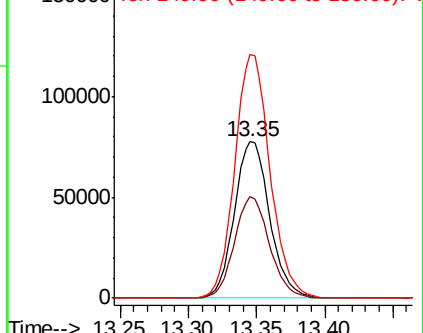
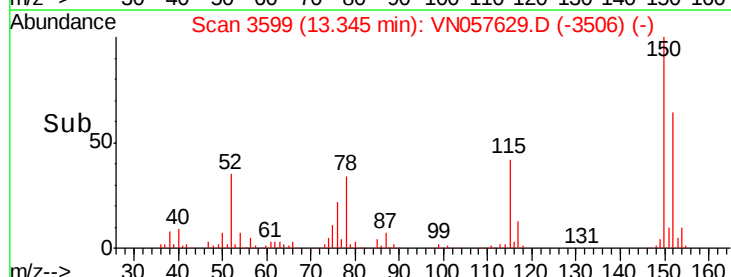
150 155.6 0.0 365.2

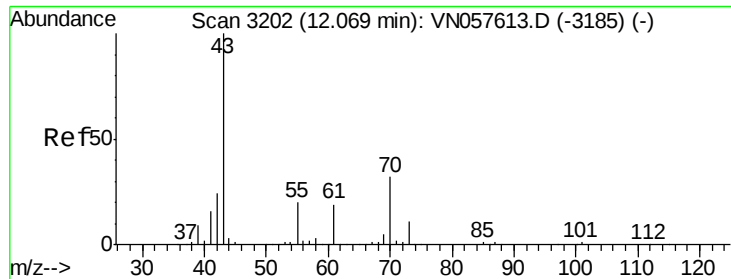


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

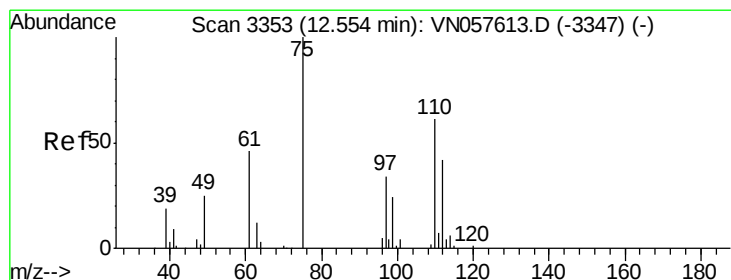
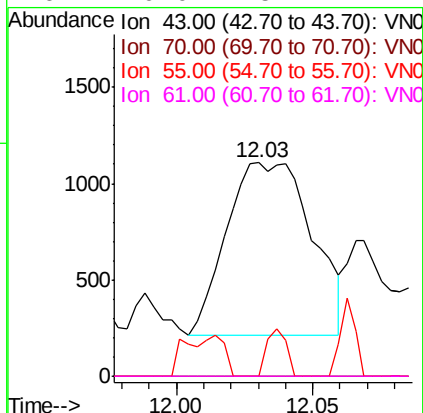
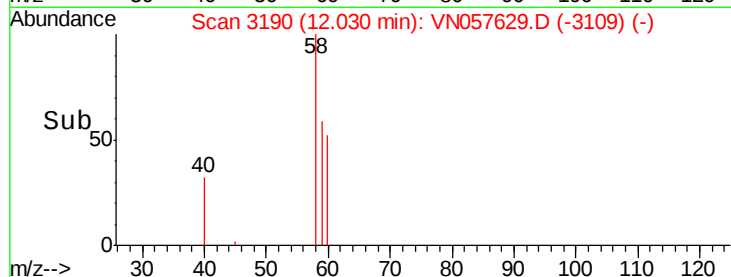
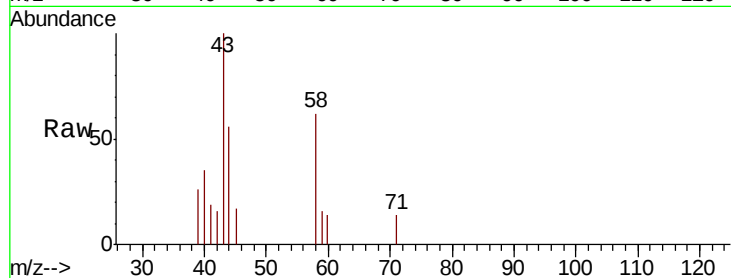




#74
N-amyl acetate
Concen: 0.296 ug/l
RT: 12.03 min Scan# 3190
Delta R.T. -0.04 min
Lab File: VN057629.D
Acq: 31 Aug 2019 21:39

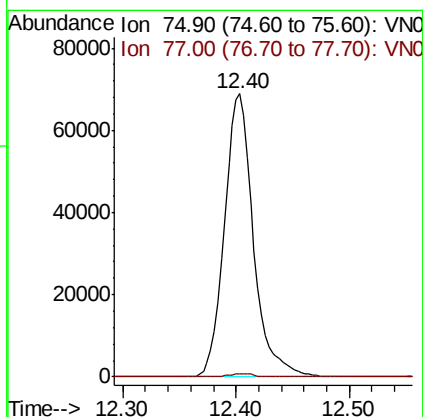
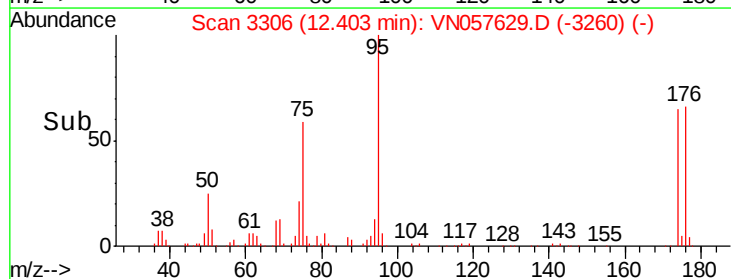
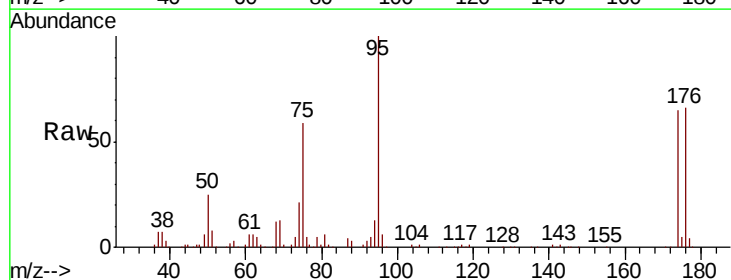
Instrument :
MSVOA_N
ClientSampled :

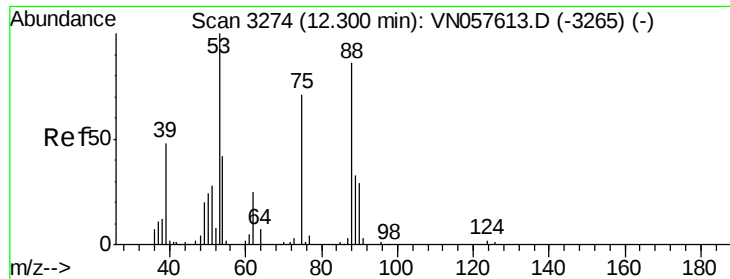
Tot Ion: 43 Resp: 1961
Ion Ratio Lower Upper
43 100
70 0.0 26.9 40.3#
55 6.1 16.8 25.2#
61 0.0 15.1 22.7#



#76
1,2,3-Trichloropropane
Concen: 33.508 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. -0.15 min
Lab File: VN057629.D
Acq: 31 Aug 2019 21:39

Tgt Ion: 75 Resp: 122584
Ion Ratio Lower Upper
75 100
77 1.1 0.0 0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 114.858 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN057629.D

Acq: 31 Aug 2019 21:39

Instrument :

MSVOA_N

ClientSampleId :

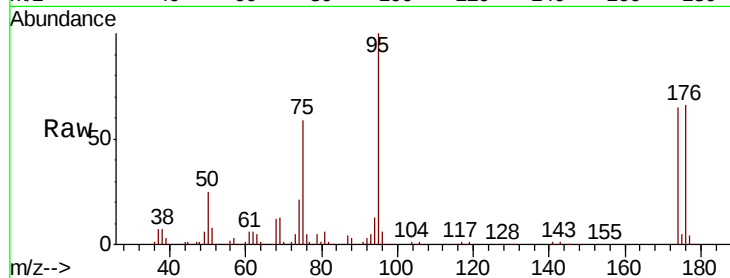
Tot Ion: 75 Resp: 122584

Ion Ratio Lower Upper

75 100

53 0.0 111.0 166.6#

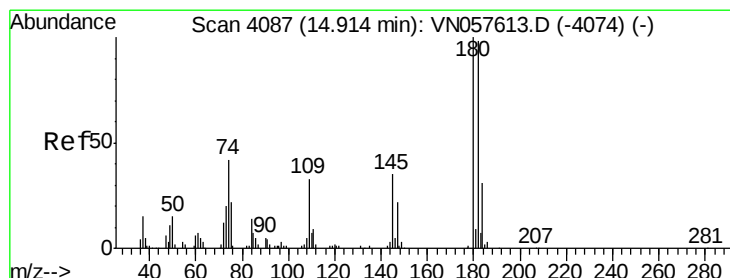
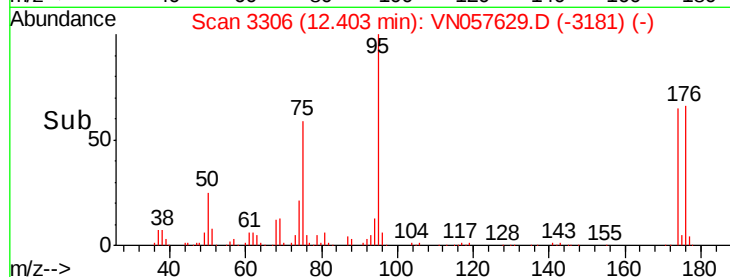
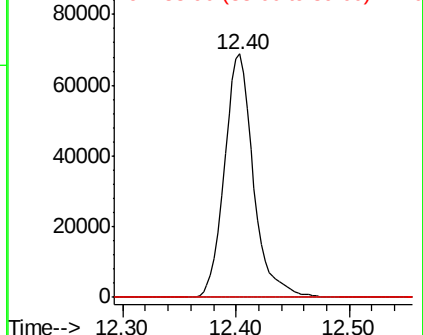
89 0.0 38.3 57.5#



Abundance Ion 74.90 (74.60 to 75.60): VN057613.D (-3265) (-)

Ion 53.00 (52.70 to 53.70): VN057613.D (-3265) (-)

Ion 88.90 (88.60 to 89.60): VN057613.D (-3265) (-)



#93

1,2,4-Trichlorobenzene

Concen: 8.320 ug/l

RT: 14.90 min Scan# 4084

Delta R.T. -0.01 min

Lab File: VN057629.D

Acq: 31 Aug 2019 21:39

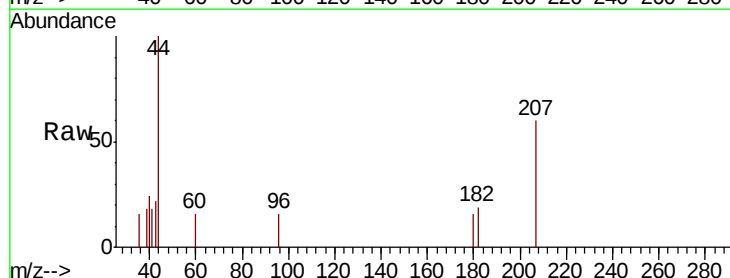
Tgt Ion:180 Resp: 58

Ion Ratio Lower Upper

180 100

182 436.2 47.8 143.3#

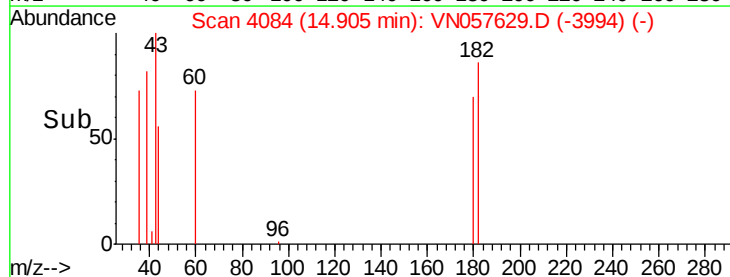
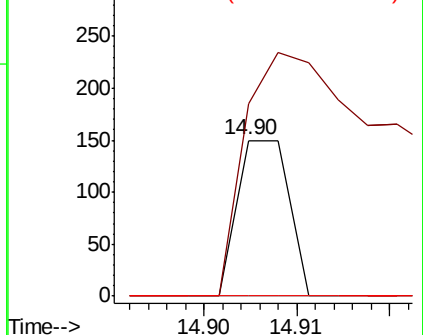
145 0.0 16.9 50.7#

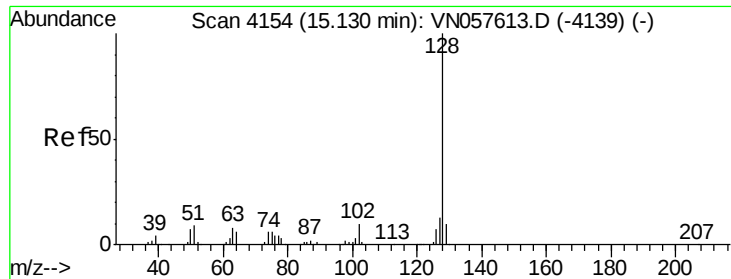


Abundance Ion 179.80 (179.50 to 180.50): VN057613.D (-4074) (-)

Ion 181.80 (181.50 to 182.50): VN057613.D (-4074) (-)

Ion 144.80 (144.50 to 145.50): VN057613.D (-4074) (-)





#95

Naphthalene

Concen: 6.947 ug/l

RT: 15.13 min Scan# 4153

Delta R.T. -0.00 min

Lab File: VN057629.D

Acq: 31 Aug 2019 21:39

Instrument :

MSVOA_N

ClientSampleId :

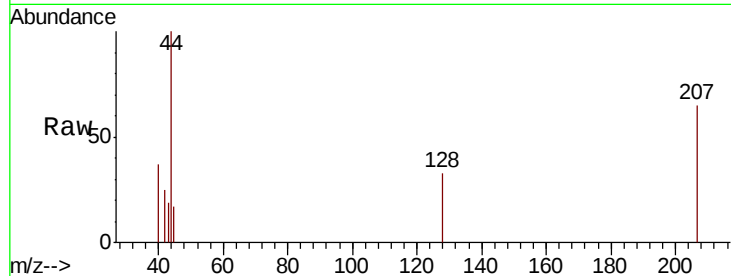
Tot Ion:128 Resp: 319

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.2#

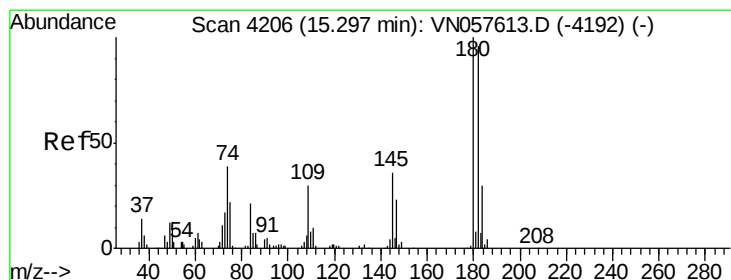
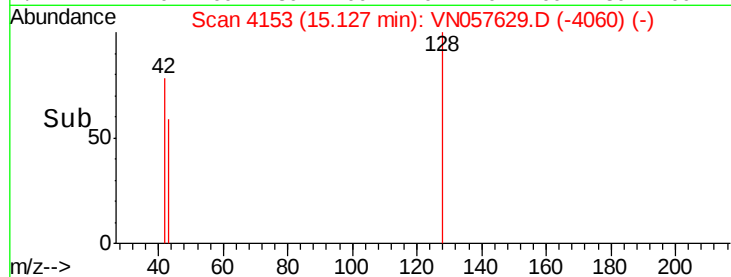
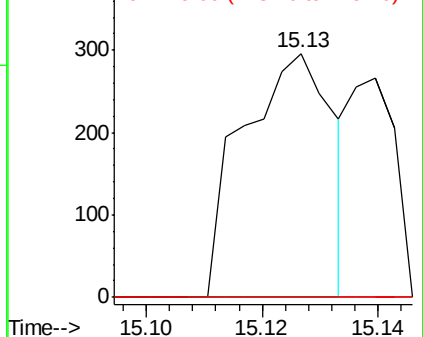
129 0.0 8.6 12.8#



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



#96

1,2,3-Trichlorobenzene

Concen: 7.863 ug/l

RT: 15.28 min Scan# 4202

Delta R.T. -0.01 min

Lab File: VN057629.D

Acq: 31 Aug 2019 21:39

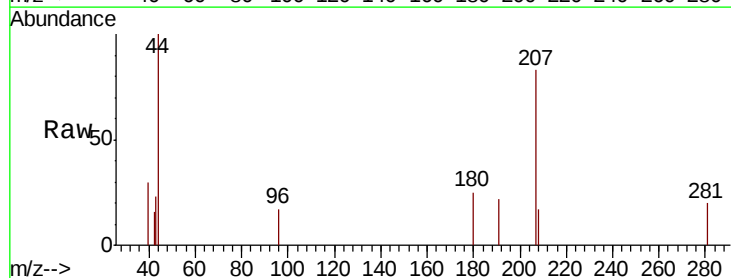
Tgt Ion:180 Resp: 235

Ion Ratio Lower Upper

180 100

182 26.4 46.3 138.9#

145 14.0 17.8 53.3#



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

