

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN091119\
 Data File : VN057871.D
 Acq On : 10 Sep 2019 18:30
 Operator : JC/SP
 Sample : K4623-26
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PAR-11-C3-(4)

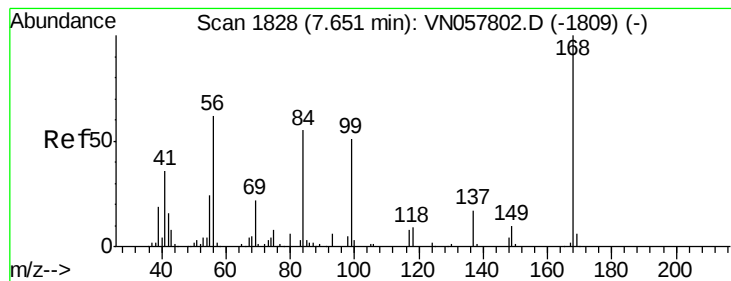
Quant Time: Sep 11 03:56:10 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091019W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 10 03:02:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	297788	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	505692	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	466914	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	239568	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	331329	54.93	ug/l	0.00
Spiked Amount			Recovery	=	109.86%	
35) Dibromofluoromethane	7.58	113	223907	47.97	ug/l	0.00
Spiked Amount			Recovery	=	95.94%	
50) Toluene-d8	10.09	98	930563	51.35	ug/l	0.00
Spiked Amount			Recovery	=	102.70%	
62) 4-Bromofluorobenzene	12.40	95	300913	43.57	ug/l	0.00
Spiked Amount			Recovery	=	87.14%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.52	94	67	Below Cal	#	2
11) Tert butyl alcohol	4.73	59	420	0.575	ug/l #	72
16) Acetone	3.80	43	9215	4.661	ug/l	93
17) Carbon Disulfide	4.02	76	308	0.221	ug/l #	75
18) Methyl Acetate	4.32	43	7412	1.406	ug/l #	80
20) Methylene Chloride	4.53	84	7445	0.766	ug/l	89
25) 2-Butanone	6.83	43	1319	0.461	ug/l #	49
29) Tetrahydrofuran	7.21	42	530	0.301	ug/l #	43
31) Cyclohexane	7.66	56	7971	Below Cal	#	33
36) 1,1-Dichloropropene	7.65	75	26190	4.466	ug/l #	47
38) Carbon Tetrachloride	7.65	117	30888	5.769	ug/l #	16
43) Isopropyl Acetate	8.16	43	81763	8.024	ug/l #	88
45) 1,2-Dichloropropane	9.26	63	1305	0.254	ug/l #	44
48) Methyl methacrylate	9.18	41	5160	0.998	ug/l #	13
49) 1,4-Dioxane	9.27	88	163	1.865	ug/l #	1
51) 4-Methyl-2-Pentanone	9.98	43	4092	0.679	ug/l #	86
54) cis-1,3-Dichloropropene	9.90	75	34239	4.750	ug/l #	65
56) Ethyl methacrylate	10.54	69	1910	0.269	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	5176	0.638	ug/l #	43
59) 2-Hexanone	10.76	43	82930	18.348	ug/l #	54
74) N-amyl acetate	12.04	43	1858	0.230	ug/l #	50
76) 1,2,3-Trichloropropane	12.40	75	165772	30.588	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	165772	107.641	ug/l #	6
95) Naphthalene	15.13	128	1209	Below Cal	#	69
96) 1,2,3-Trichlorobenzene	15.29	180	188	1.036	ug/l #	37

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. 0.00 min

Lab File: VN057871.D

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MSVOA_N

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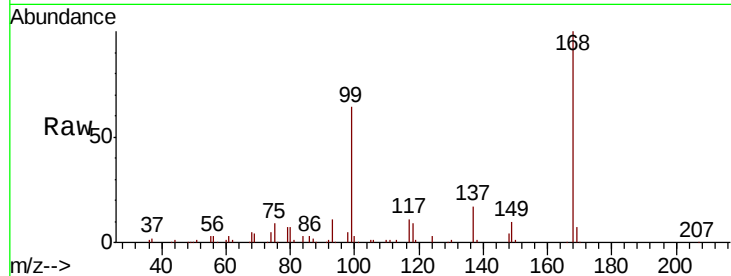
PAR-11-C3-(4)

Tgt Ion:168 Resp: 297788

Ion Ratio Lower Upper

168 100

99 63.7 48.0 72.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

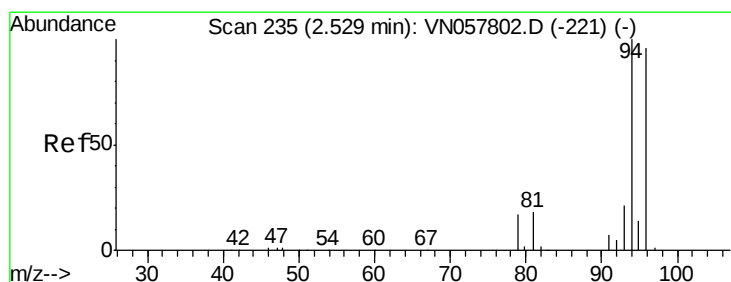
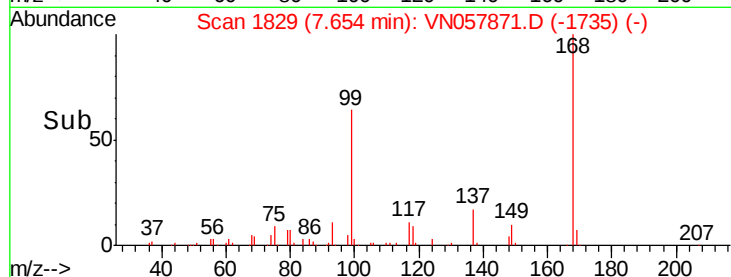
7.65

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.52 min Scan# 232

Delta R.T. -0.01 min

Lab File: VN057871.D

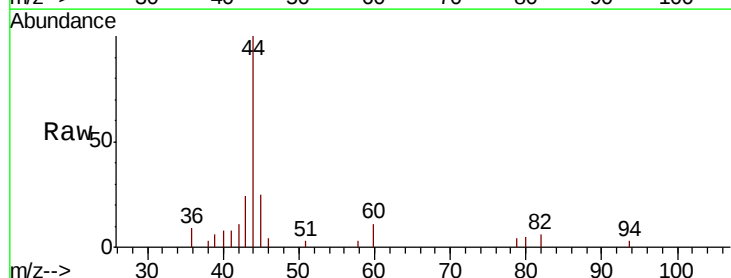
Acq: 10 Sep 2019 18:30

Tgt Ion: 94 Resp: 67

Ion Ratio Lower Upper

94 100

96 0.0 77.0 115.4#



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO

2.52

200

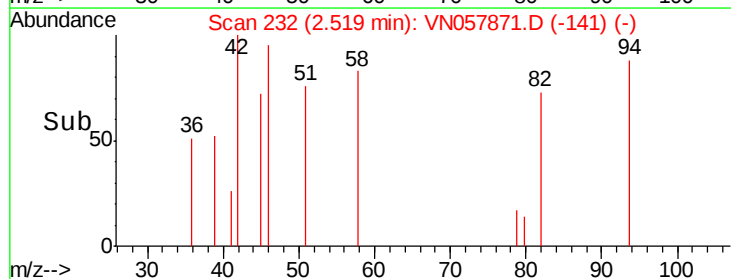
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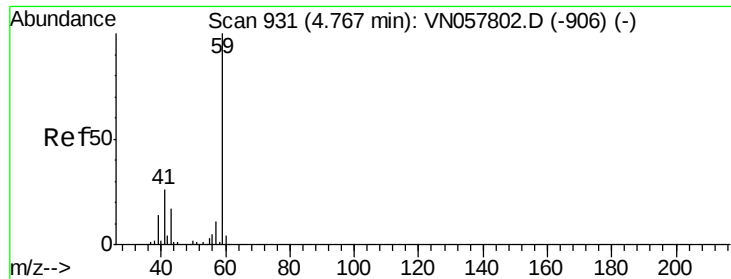
100

50

0

Time-->

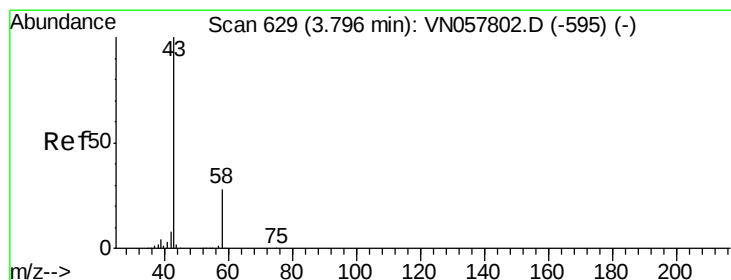
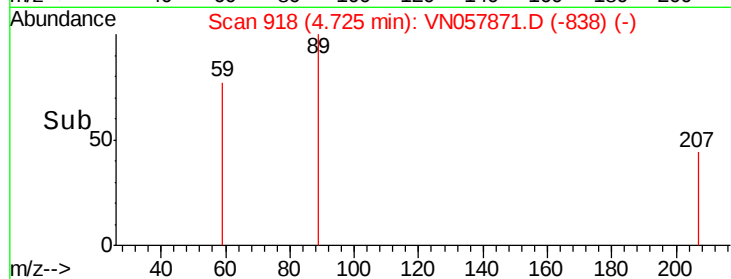
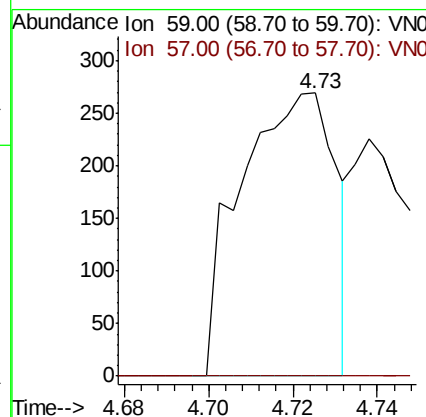
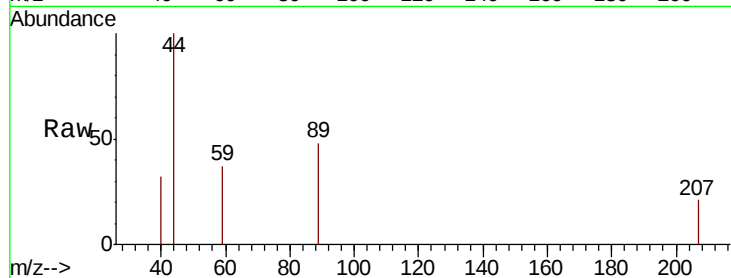




#11
Tert butyl alcohol
Concen: 0.575 ug/l
RT: 4.73 min Scan# 918
Delta R.T. -0.04 min
Lab File: VN057871.D
Acq: 10 Sep 2019 18:30

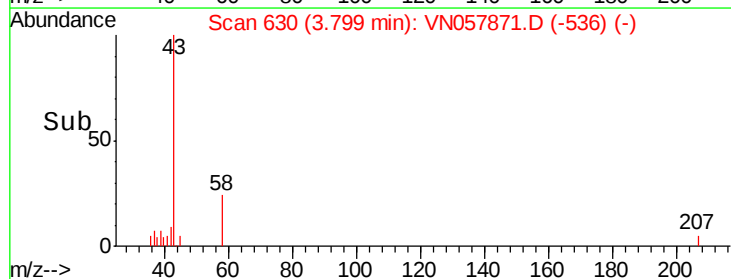
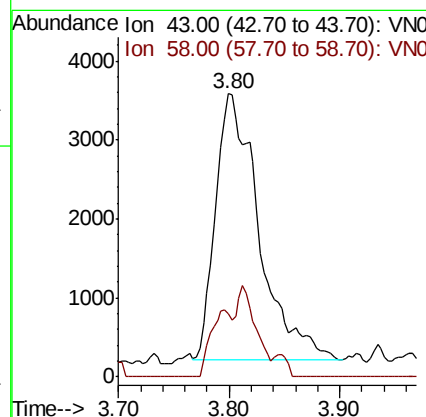
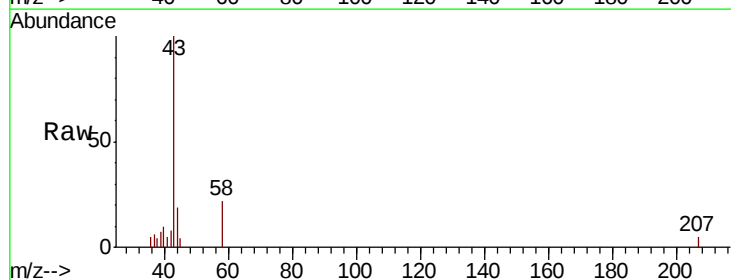
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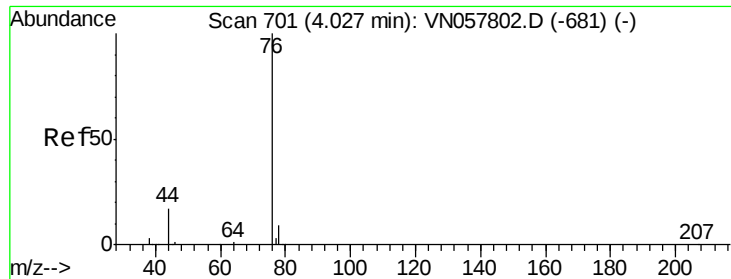
Tgt Ion: 59 Resp: 420
Ion Ratio Lower Upper
59 100
57 0.0 8.4 12.6#



#16
Acetone
Concen: 4.661 ug/l
RT: 3.80 min Scan# 630
Delta R.T. 0.00 min
Lab File: VN057871.D
Acq: 10 Sep 2019 18:30

Tgt Ion: 43 Resp: 9215
Ion Ratio Lower Upper
43 100
58 23.9 22.2 33.2

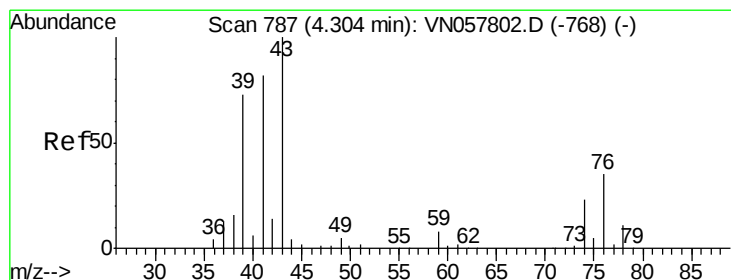
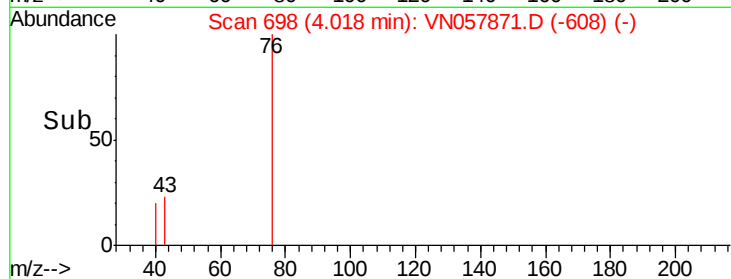
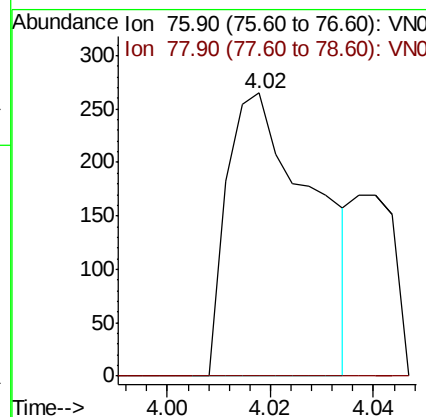
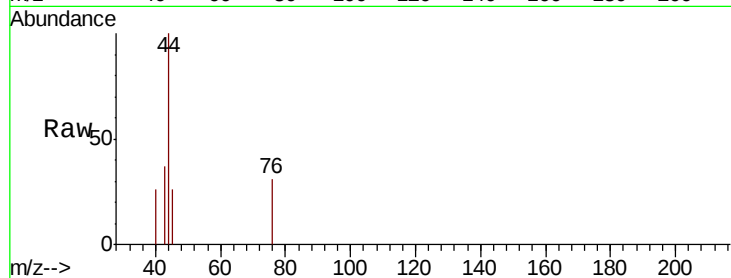




#17
Carbon Disulfide
Concen: 0.221 ug/l
RT: 4.02 min Scan# 698
Delta R.T. -0.01 min
Lab File: VN057871.D
Acq: 10 Sep 2019 18:30

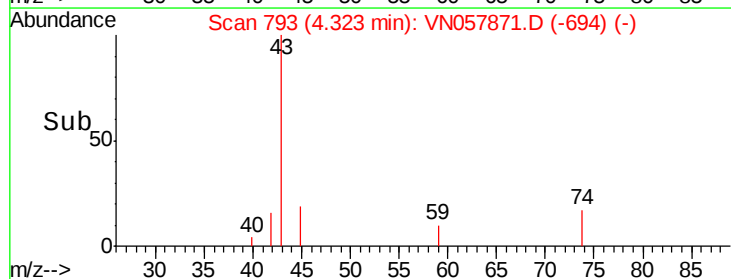
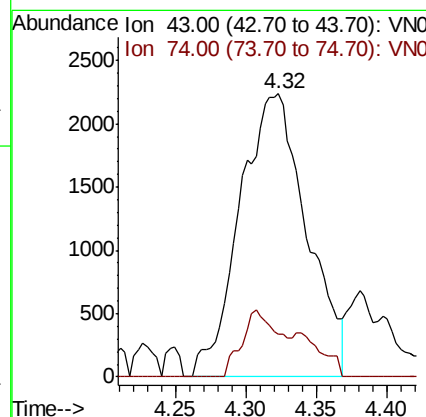
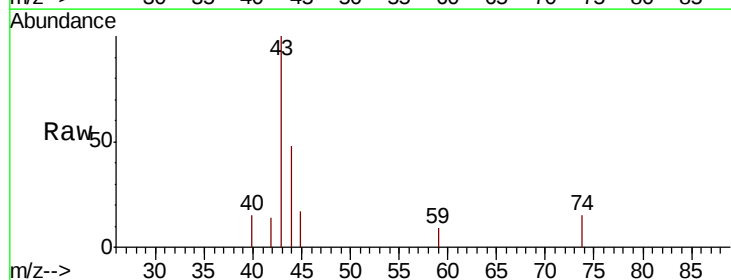
Instrument :
MSVOA_N
ClientSampleId :
PAR-11-C3-(4)

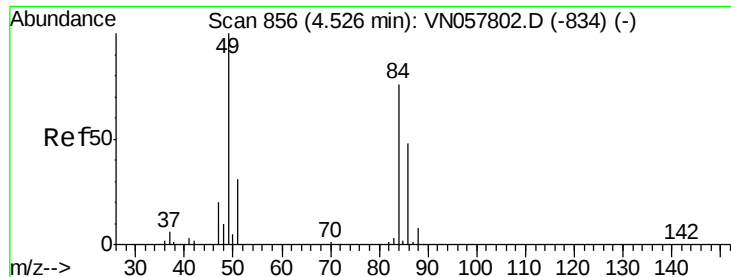
Tgt Ion: 76 Resp: 308
Ion Ratio Lower Upper
76 100
78 0.0 7.1 10.7#



#18
Methyl Acetate
Concen: 1.406 ug/l
RT: 4.32 min Scan# 793
Delta R.T. 0.02 min
Lab File: VN057871.D
Acq: 10 Sep 2019 18:30

Tgt Ion: 43 Resp: 7412
Ion Ratio Lower Upper
43 100
74 12.8 17.9 26.9#

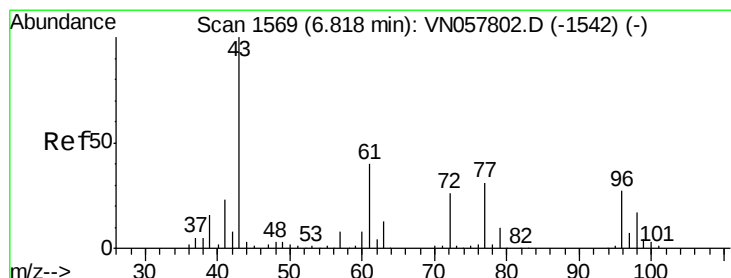
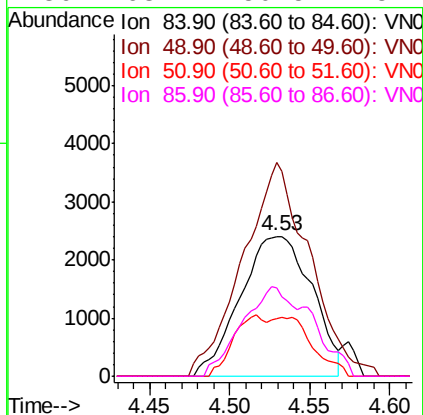
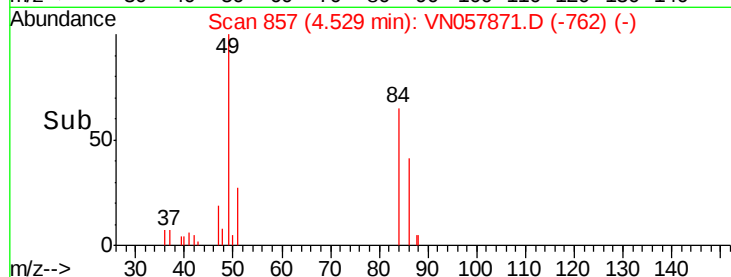
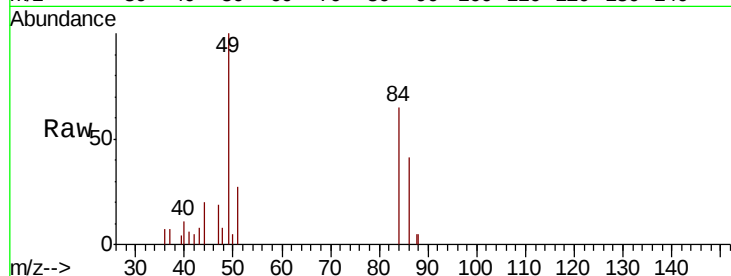




#20
Methylene Chloride
Concen: 0.766 ug/l
RT: 4.53 min Scan# 857
Delta R.T. 0.00 min
Lab File: VN057871.D
Acq: 10 Sep 2019 18:30

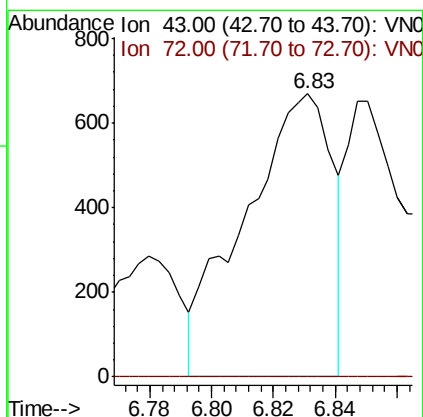
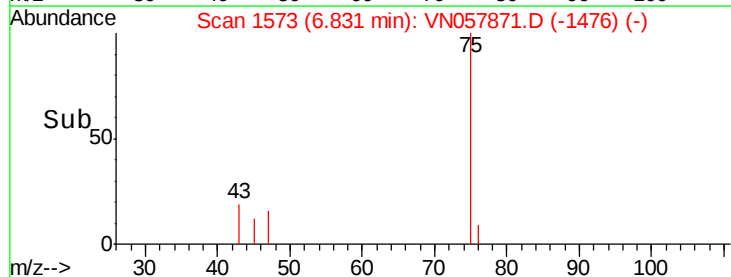
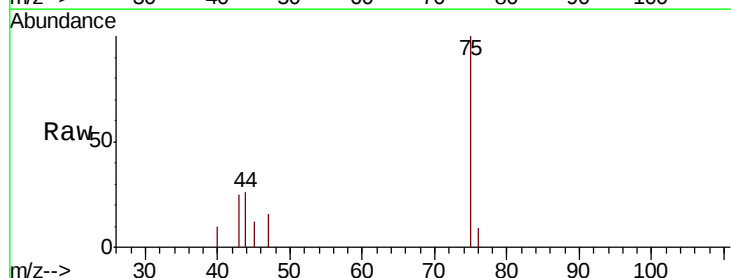
Instrument :
MSVOA_N
ClientSampleId :
PAR-11-C3-(4)

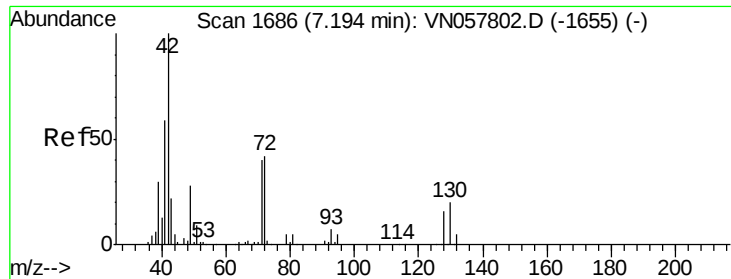
Tgt Ion: 84 Resp: 7445
Ion Ratio Lower Upper
84 100
49 153.0 104.8 157.2
51 41.7 33.0 49.4
86 63.1 50.5 75.7



#25
2-Butanone
Concen: 0.461 ug/l
RT: 6.83 min Scan# 1573
Delta R.T. 0.01 min
Lab File: VN057871.D
Acq: 10 Sep 2019 18:30

Tgt Ion: 43 Resp: 1319
Ion Ratio Lower Upper
43 100
72 0.0 20.6 30.8#

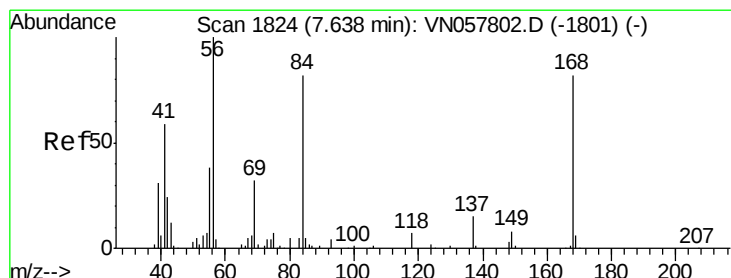
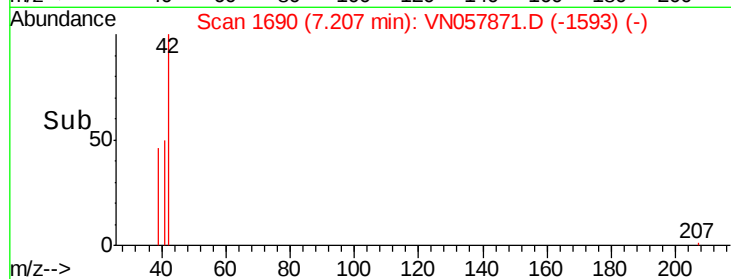
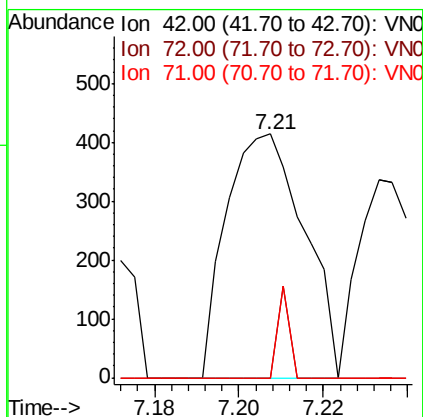
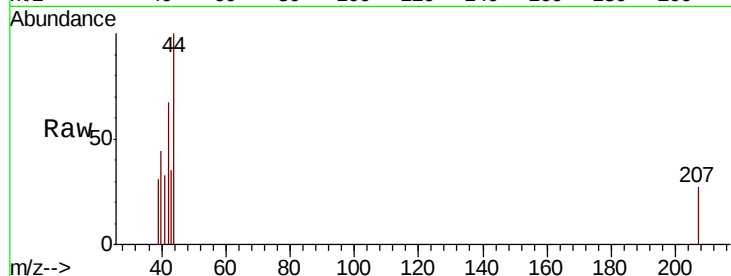




#29
Tetrahydrofuran
Concen: 0.301 ug/l
RT: 7.21 min Scan# 1690
Delta R.T. 0.01 min
Lab File: VN057871.D
Acq: 10 Sep 2019 18:30

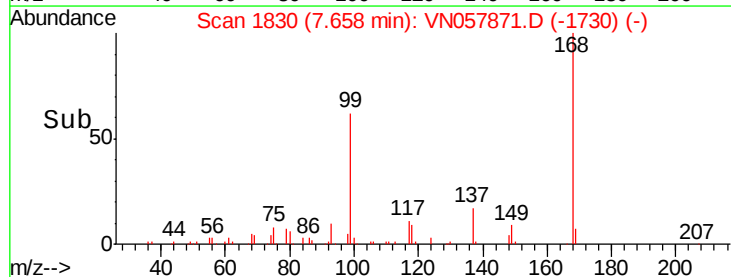
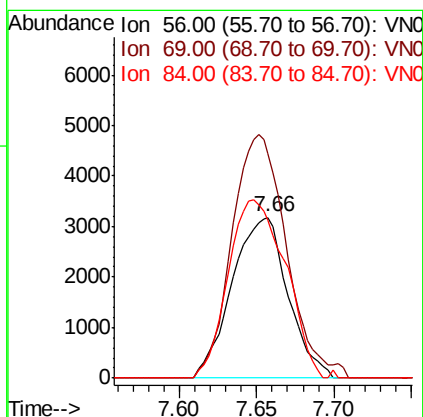
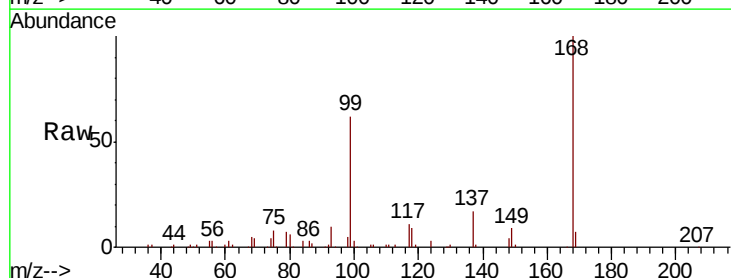
Instrument :
MSVOA_N
ClientSampled :
PAR-11-C3-(4)

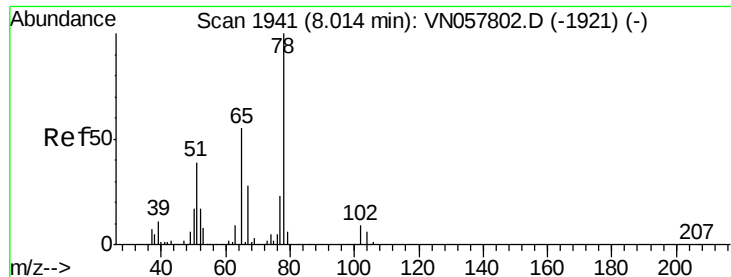
Tgt Ion: 42 Resp: 530
Ion Ratio Lower Upper
42 100
72 5.7 33.7 50.5#
71 5.7 31.9 47.9#



#31
Cyclohexane
Concen: Below Cal
RT: 7.66 min Scan# 1830
Delta R.T. 0.02 min
Lab File: VN057871.D
Acq: 10 Sep 2019 18:30

Tgt Ion: 56 Resp: 7971
Ion Ratio Lower Upper
56 100
69 139.5 25.9 38.9#
84 98.3 65.6 98.4

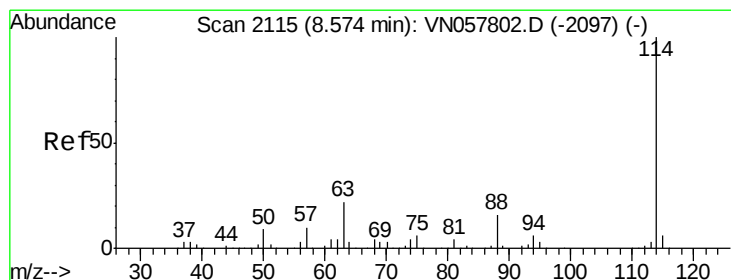
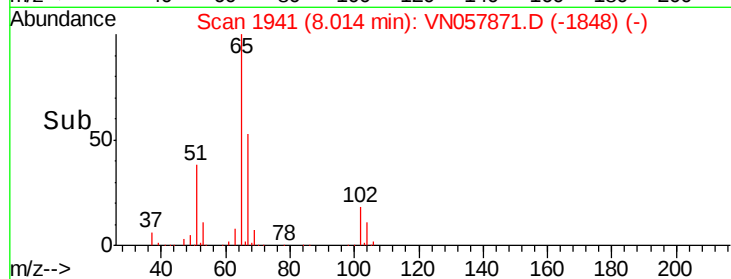
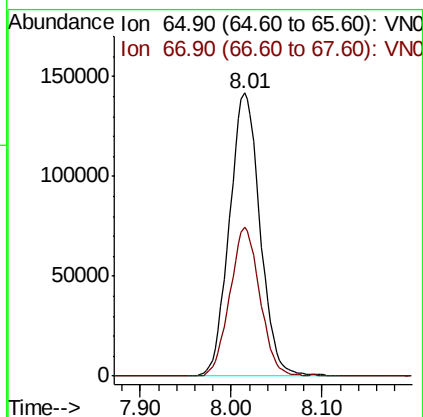
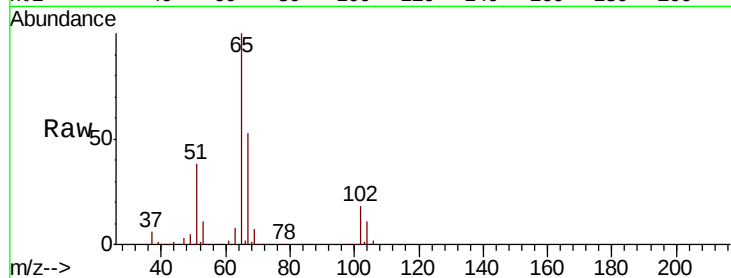




#33
 1,2-Dichloroethane-d4
 Concen: 54.933 ug/l
 RT: 8.01 min Scan# 1941
 Delta R.T. 0.00 min
 Lab File: VN057871.D
 Acq: 10 Sep 2019 18:30

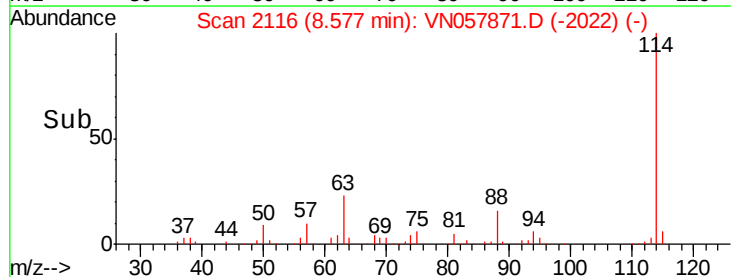
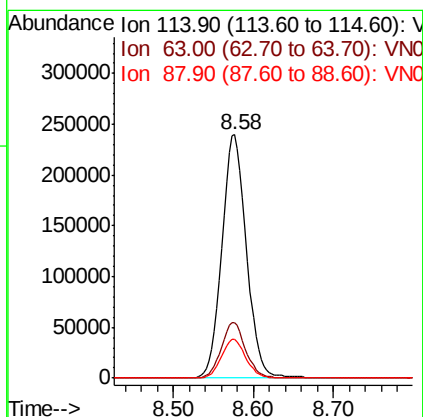
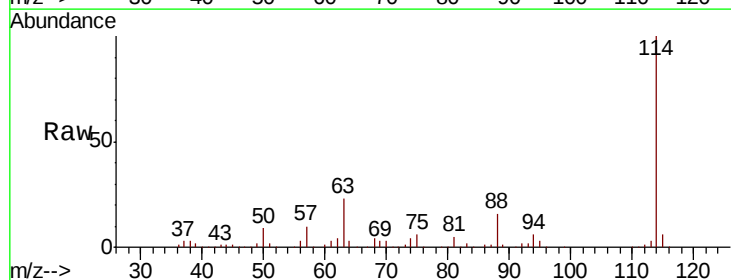
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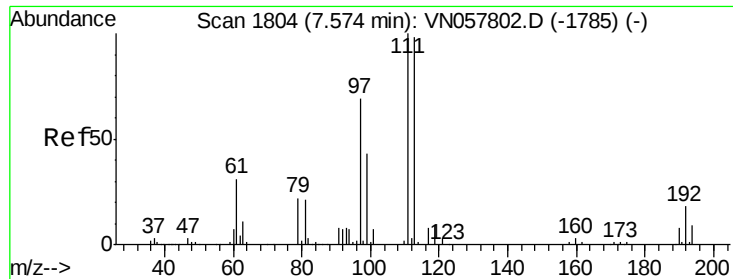
Tgt Ion: 65 Resp: 331329
 Ion Ratio Lower Upper
 65 100
 67 51.5 0.0 104.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2116
 Delta R.T. 0.00 min
 Lab File: VN057871.D
 Acq: 10 Sep 2019 18:30

Tgt Ion: 114 Resp: 505692
 Ion Ratio Lower Upper
 114 100
 63 22.9 0.0 44.0
 88 15.8 0.0 31.4

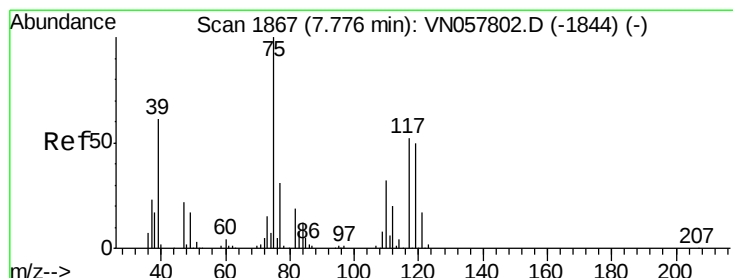
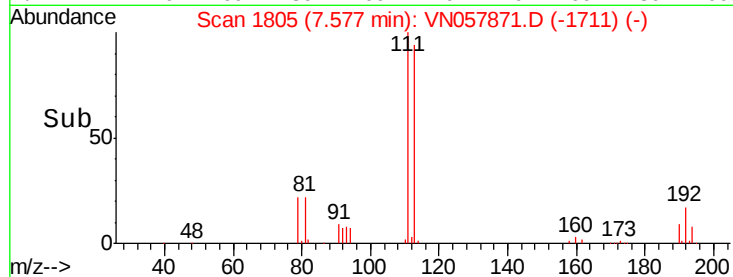
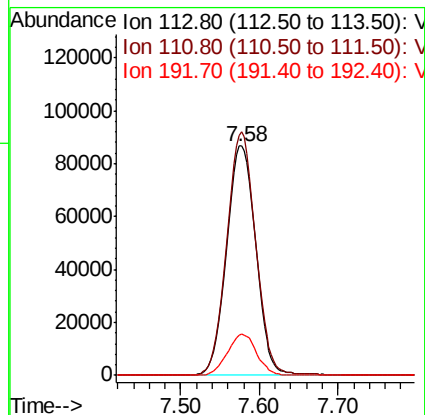
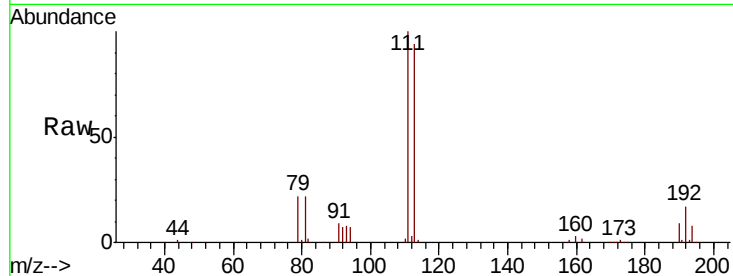




#35
 Dibromofluoromethane
 Concen: 47.973 ug/l
 RT: 7.58 min Scan# 1805
 Delta R.T. 0.00 min
 Lab File: VN057871.D
 Acq: 10 Sep 2019 18:30

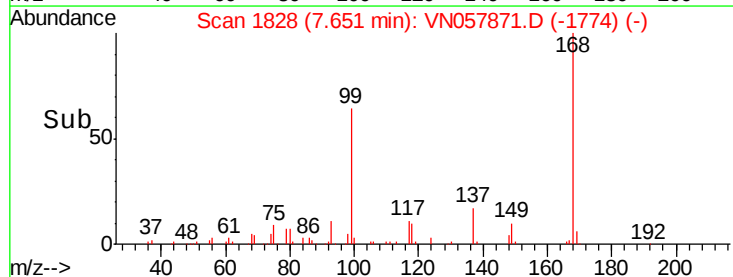
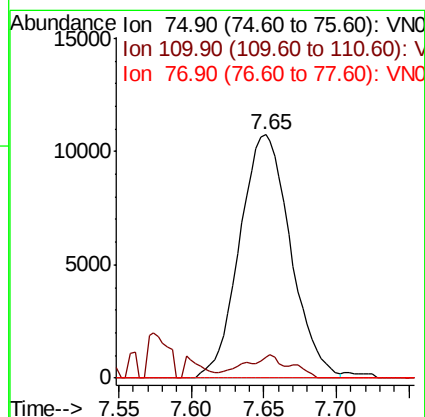
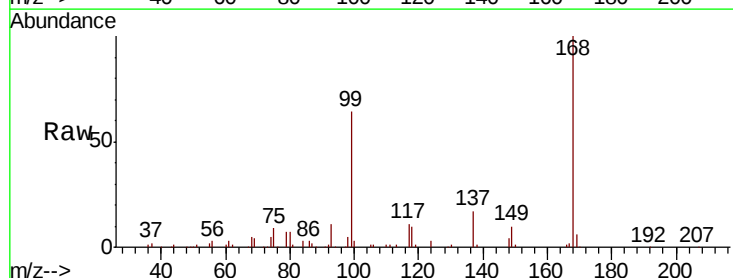
Instrument :
 MSVOA_N
 ClientSampleId :
 PAR-11-C3-(4)

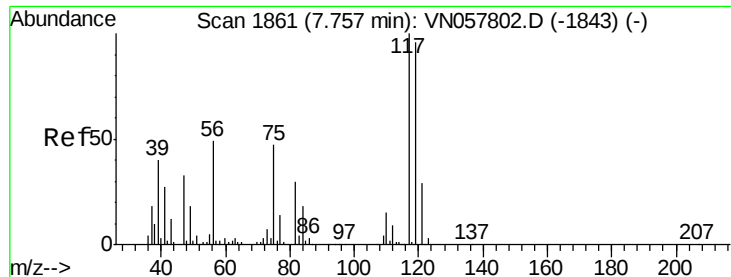
Tgt Ion	Ratio	Lower	Upper
113	100		
111	104.1	81.3	121.9
192	17.8	14.6	22.0



#36
 1,1-Dichloropropene
 Concen: 4.466 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.13 min
 Lab File: VN057871.D
 Acq: 10 Sep 2019 18:30

Tgt Ion	Ratio	Lower	Upper
75	100		
110	4.3	16.3	48.9#
77	0.0	25.0	37.4#





#38

Carbon Tetrachloride

Concen: 5.769 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. -0.10 min

Lab File: VN057871.D

Acq: 10 Sep 2019 18:30

Instrument :

MSVOA_N

ClientSampleId :

PAR-11-C3-(4)

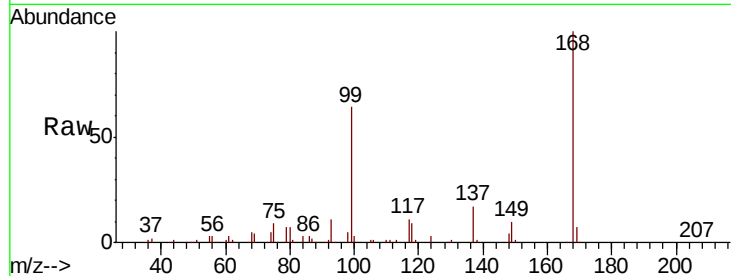
Tgt Ion:117 Resp: 30888

Ion Ratio Lower Upper

117 100

119 4.8 76.9 115.3#

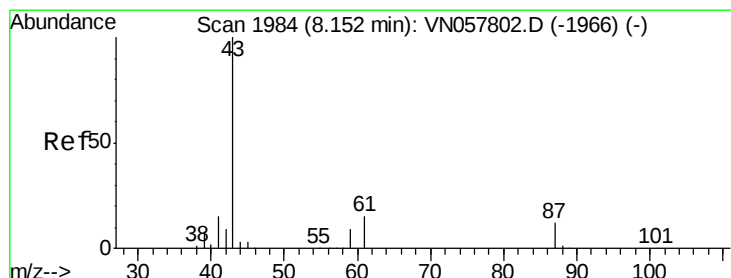
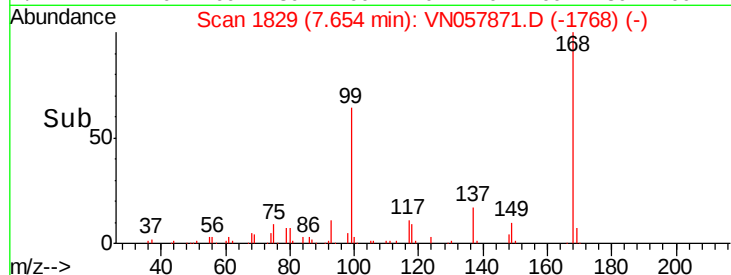
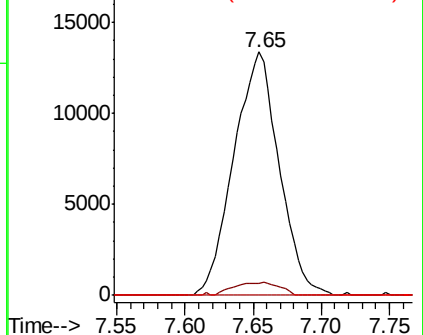
121 0.0 23.4 35.2#



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: 8.024 ug/l

RT: 8.16 min Scan# 1985

Delta R.T. 0.00 min

Lab File: VN057871.D

Acq: 10 Sep 2019 18:30

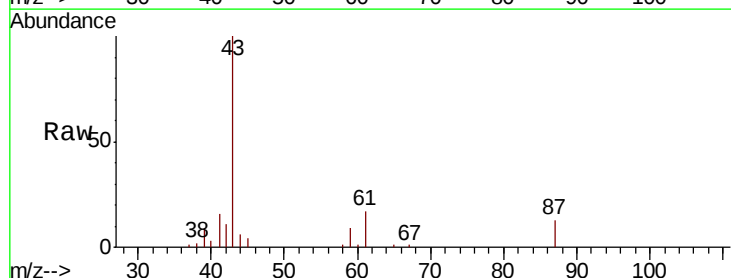
Tgt Ion: 43 Resp: 81763

Ion Ratio Lower Upper

43 100

61 16.2 20.1 30.1#

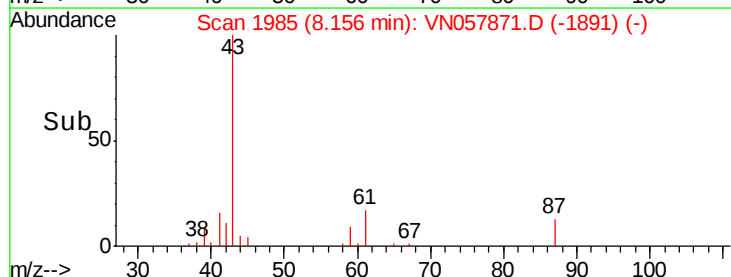
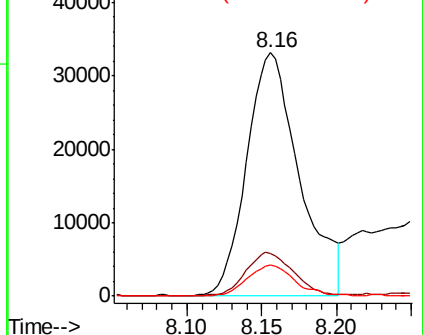
87 11.5 9.5 14.3

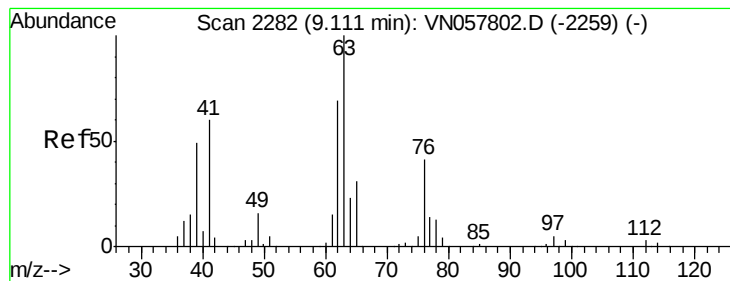


Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 61.00 (60.70 to 61.70): VNO

Ion 87.00 (86.70 to 87.70): VNO





#45

1,2-Dichloropropane

Concen: 0.254 ug/l

RT: 9.26 min Scan# 2329

Delta R.T. 0.15 min

Lab File: VN057871.D

Acq: 10 Sep 2019 18:30

Instrument :

MSVOA_N

ClientSampleId :

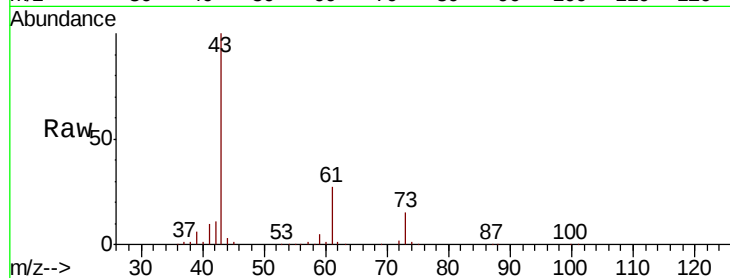
PAR-11-C3-(4)

Tgt Ion: 63 Resp: 1305

Ion Ratio Lower Upper

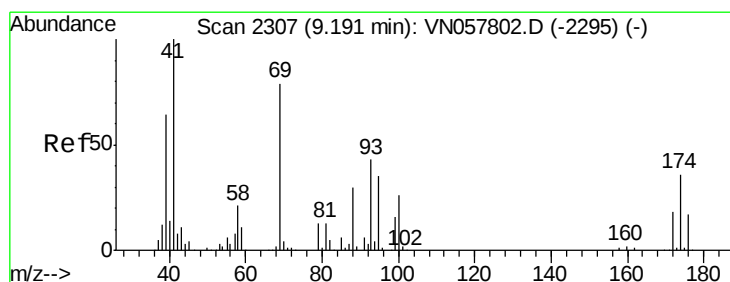
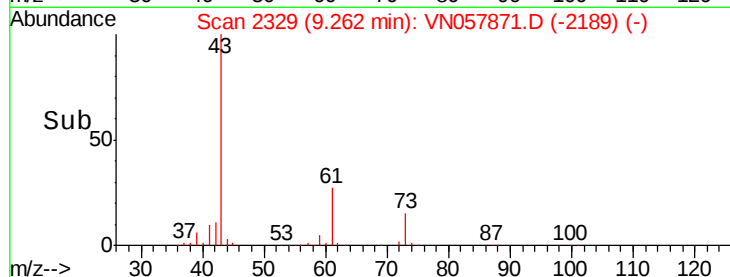
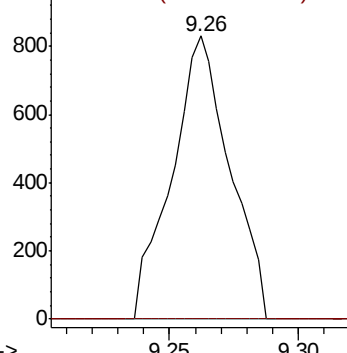
63 100

65 0.0 24.8 37.2#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0



#48

Methyl methacrylate

Concen: 0.998 ug/l

RT: 9.18 min Scan# 2303

Delta R.T. -0.01 min

Lab File: VN057871.D

Acq: 10 Sep 2019 18:30

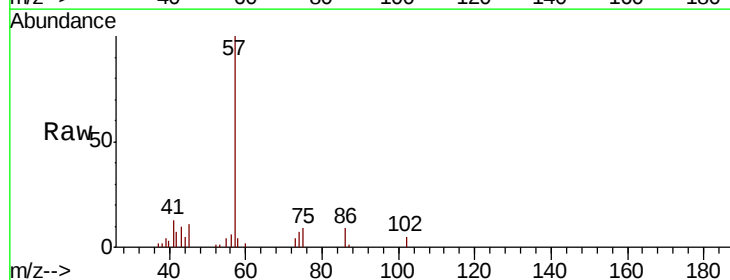
Tgt Ion: 41 Resp: 5160

Ion Ratio Lower Upper

41 100

69 0.0 62.7 94.1#

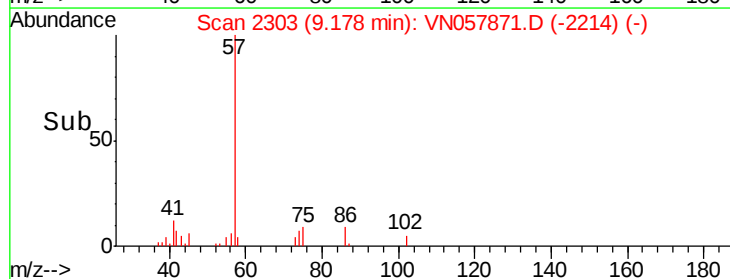
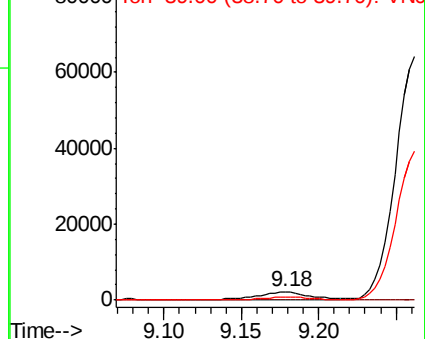
39 0.0 52.7 79.1#

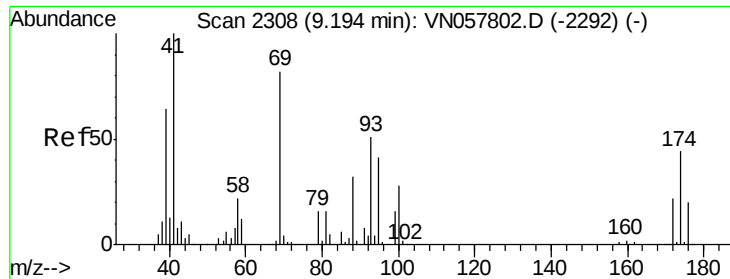


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





#49

1,4-Dioxane

Concen: 1.865 ug/l

RT: 9.27 min Scan# 2331

Delta R.T. 0.07 min

Lab File: VN057871.D

Acq: 10 Sep 2019 18:30

Instrument :

MSVOA_N

ClientSampleId :

PAR-11-C3-(4)

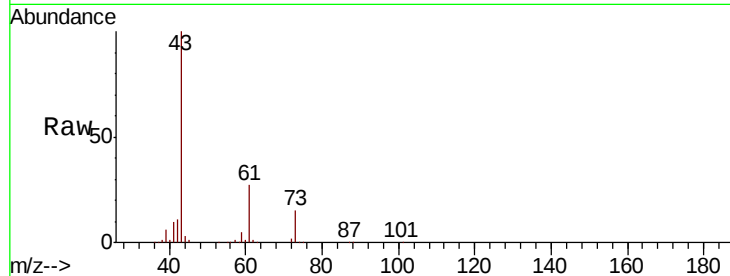
Tgt Ion: 88 Resp: 163

Ion Ratio Lower Upper

88 100

43 753396.3 28.5 42.7#

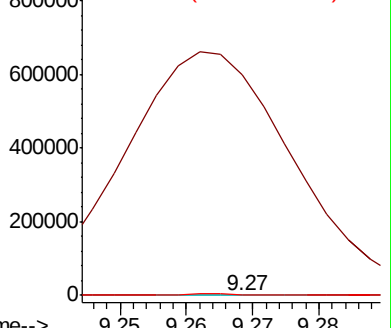
58 3440.5 55.8 83.6#



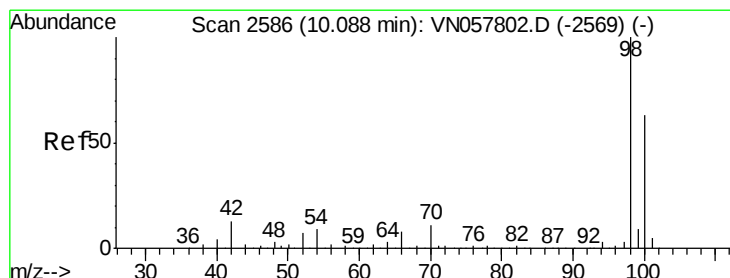
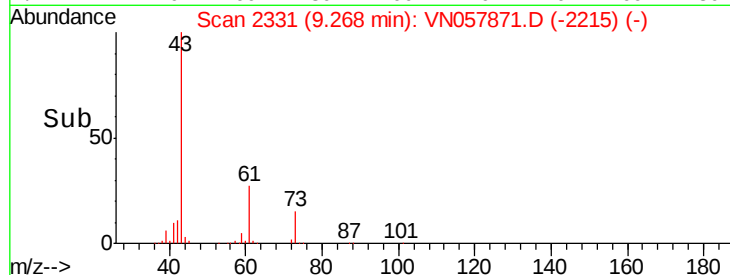
Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



Time-->



#50

Toluene-d8

Concen: 51.352 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. 0.00 min

Lab File: VN057871.D

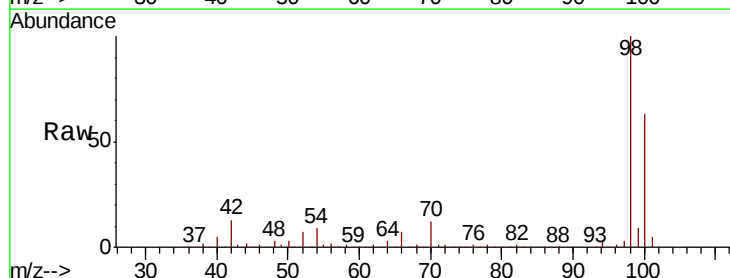
Acq: 10 Sep 2019 18:30

Tgt Ion: 98 Resp: 930563

Ion Ratio Lower Upper

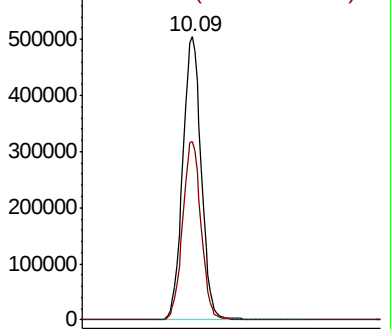
98 100

100 62.7 50.3 75.5

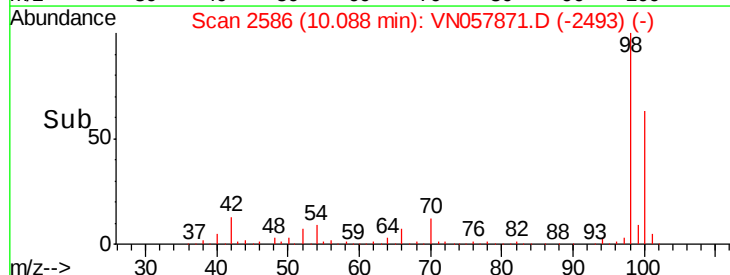


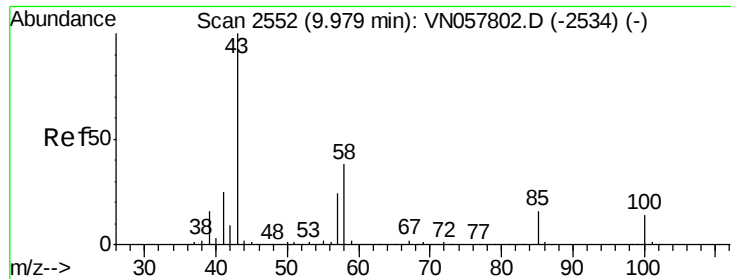
Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0



Time-->





#51

4-Methyl-2-Pentanone

Concen: 0.679 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. 0.00 min

Lab File: VN057871.D

Acq: 10 Sep 2019 18:30

Instrument :

MSVOA_N

ClientSampleId :

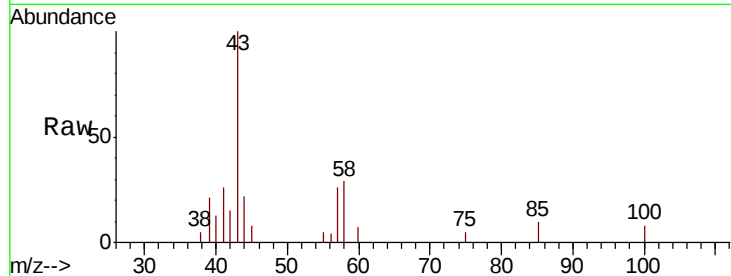
PAR-11-C3-(4)

Tgt Ion: 43 Resp: 4092

Ion Ratio Lower Upper

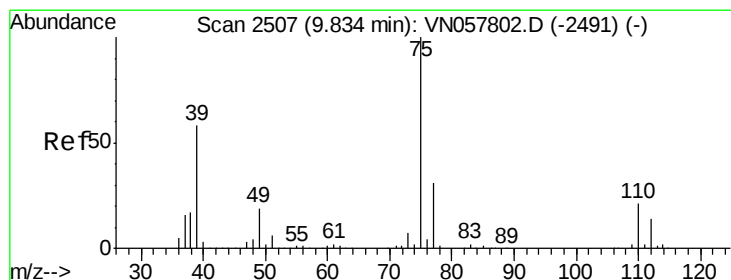
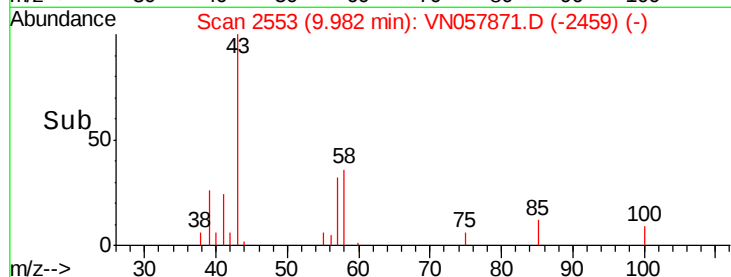
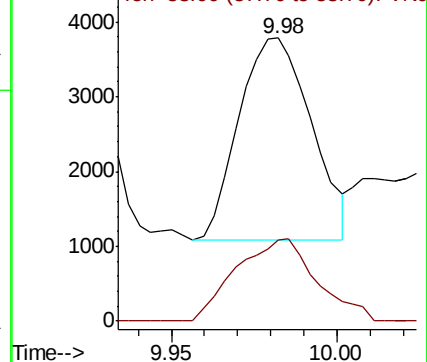
43 100

58 45.6 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: 4.750 ug/l

RT: 9.90 min Scan# 2528

Delta R.T. 0.07 min

Lab File: VN057871.D

Acq: 10 Sep 2019 18:30

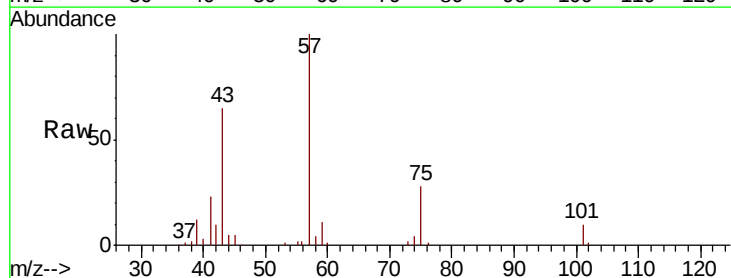
Tgt Ion: 75 Resp: 34239

Ion Ratio Lower Upper

75 100

77 0.0 24.8 37.2#

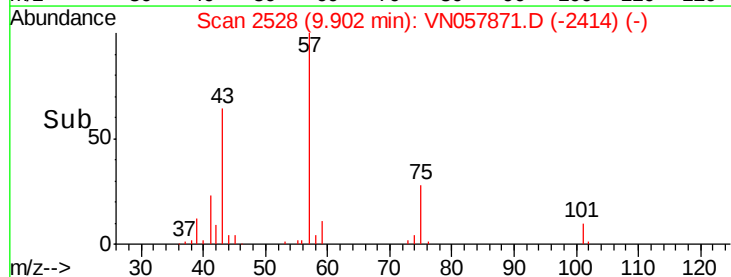
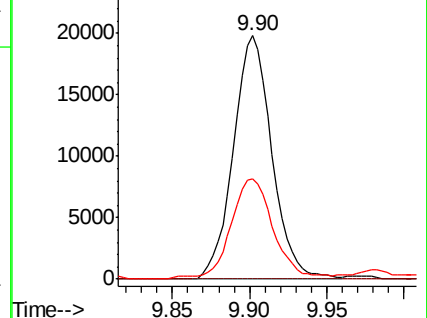
39 39.9 46.2 69.4#

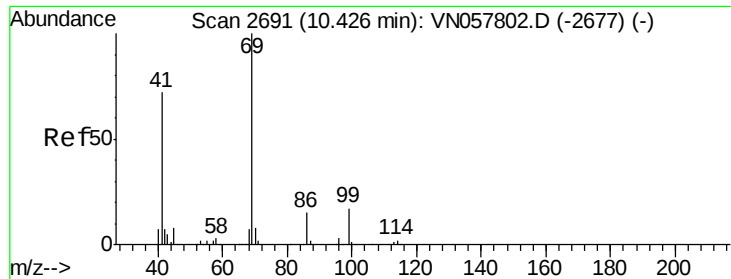


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0





#56

Ethyl methacrylate

Concen: 0.269 ug/l

RT: 10.54 min Scan# 2728

Delta R.T. 0.12 min

Lab File: VN057871.D

Acq: 10 Sep 2019 18:30

Instrument :

MSVOA_N

ClientSampleId :

PAR-11-C3-(4)

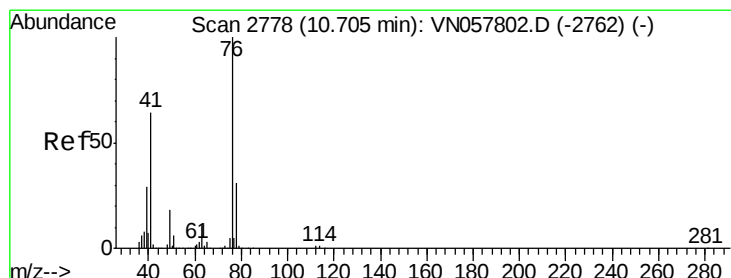
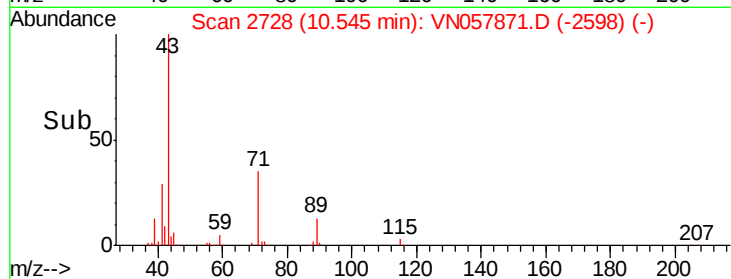
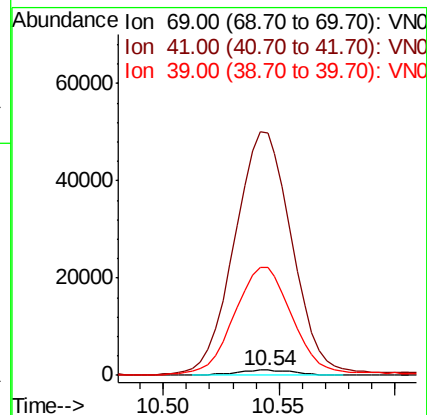
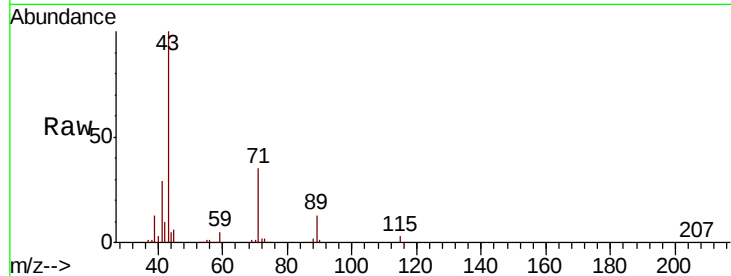
Tgt Ion: 69 Resp: 1910

Ion Ratio Lower Upper

69 100

41 4545.1 56.7 85.1#

39 2063.0 36.3 54.5#



#57

1,3-Dichloropropane

Concen: 0.638 ug/l

RT: 10.76 min Scan# 2795

Delta R.T. 0.05 min

Lab File: VN057871.D

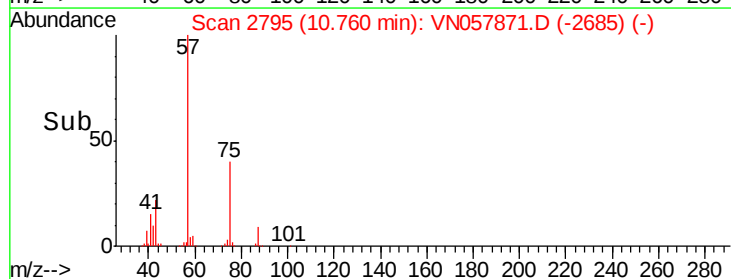
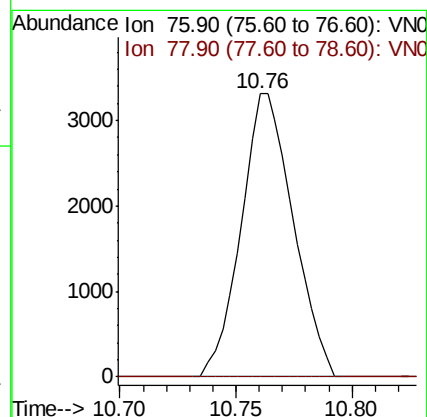
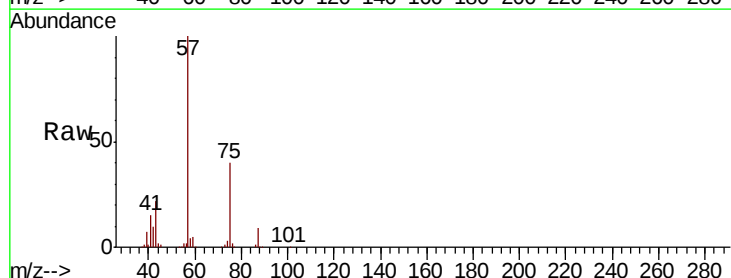
Acq: 10 Sep 2019 18:30

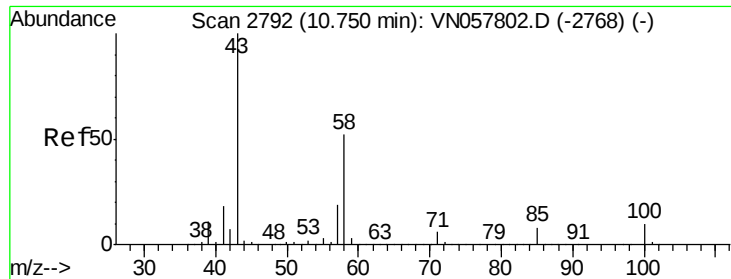
Tgt Ion: 76 Resp: 5176

Ion Ratio Lower Upper

76 100

78 0.0 25.4 38.2#

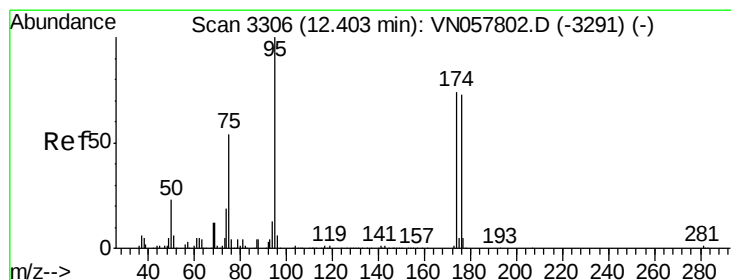
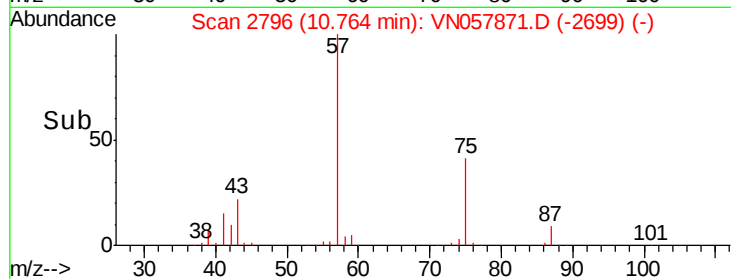
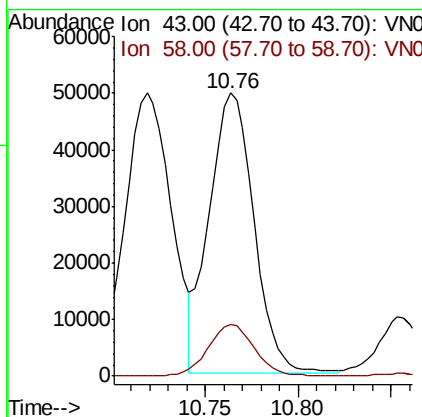
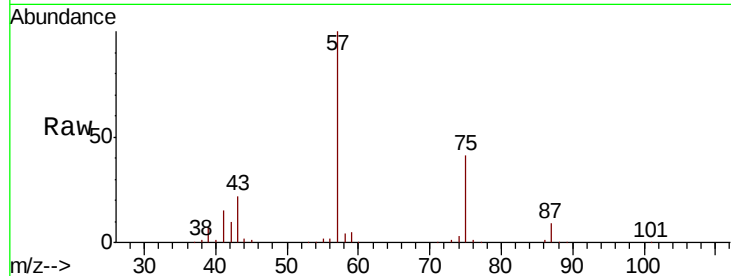




#59
 2-Hexanone
 Concen: 18.348 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.01 min
 Lab File: VN057871.D
 Acq: 10 Sep 2019 18:30

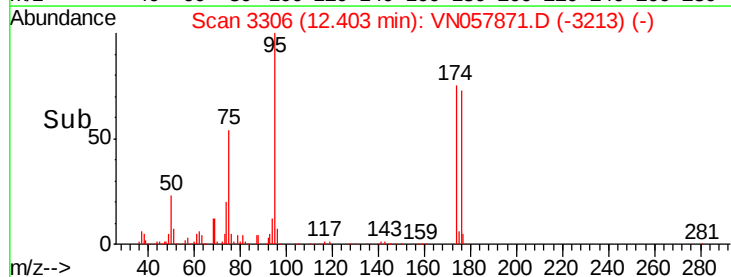
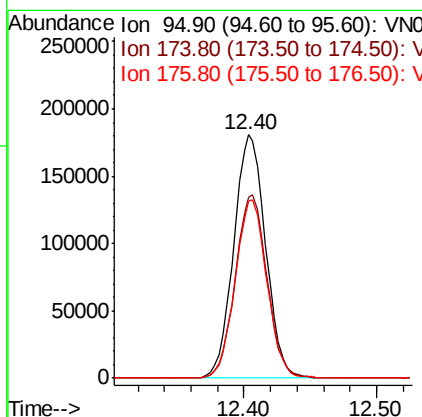
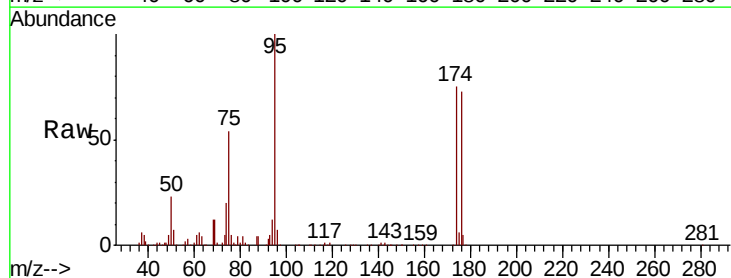
Instrument :
 MSVOA_N
 ClientSampleId :
 PAR-11-C3-(4)

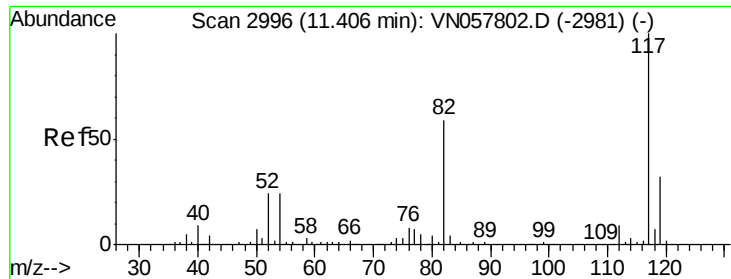
Tgt Ion: 43 Resp: 82930
 Ion Ratio Lower Upper
 43 100
 58 19.1 25.6 76.8#



#62
 4-Bromofluorobenzene
 Concen: 43.574 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. 0.00 min
 Lab File: VN057871.D
 Acq: 10 Sep 2019 18:30

Tgt Ion: 95 Resp: 300913
 Ion Ratio Lower Upper
 95 100
 174 75.0 0.0 150.2
 176 73.1 0.0 146.0

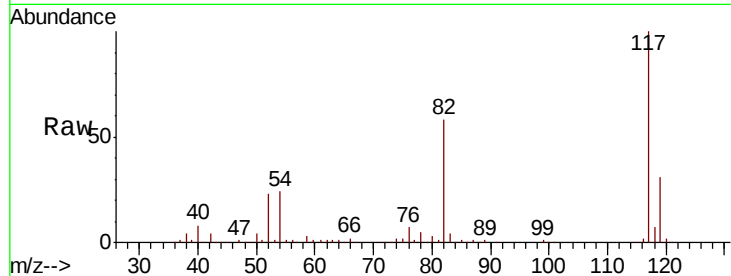




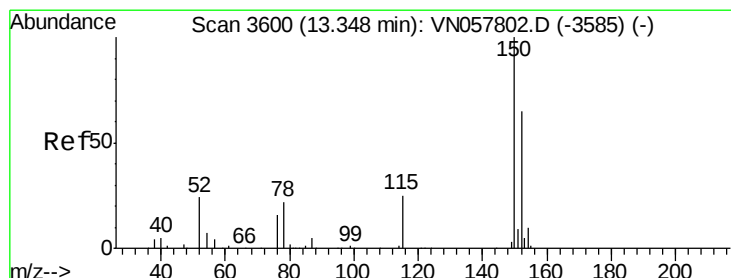
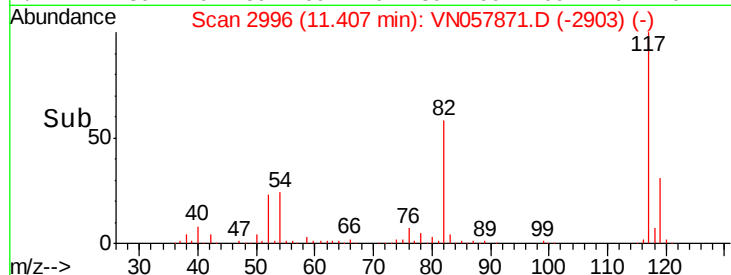
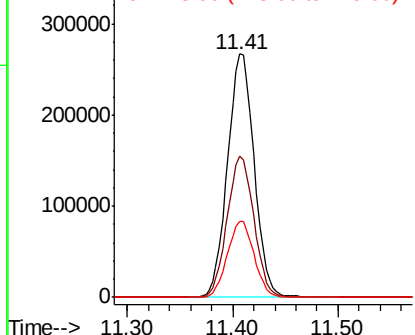
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN057871.D
Acq: 10 Sep 2019 18:30

Instrument :
MSVOA_N
ClientSampleId :
PAR-11-C3-(4)

Tgt Ion:117 Resp: 466914
Ion Ratio Lower Upper
117 100
82 57.9 47.2 70.8
119 31.5 25.3 37.9

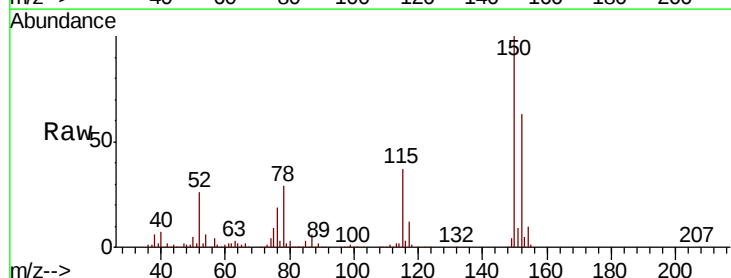


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

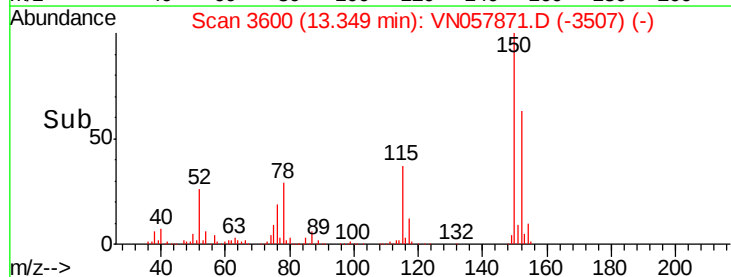
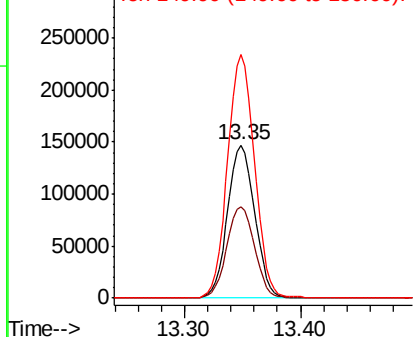


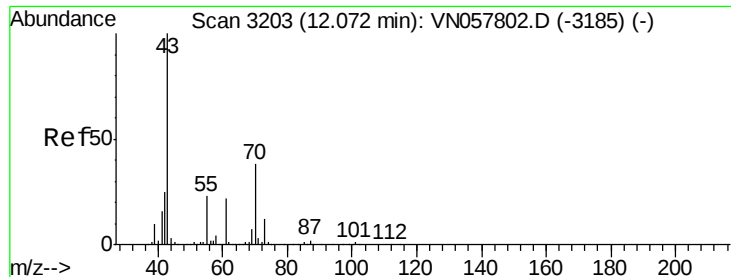
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3600
Delta R.T. 0.00 min
Lab File: VN057871.D
Acq: 10 Sep 2019 18:30

Tgt Ion:152 Resp: 239568
Ion Ratio Lower Upper
152 100
115 61.0 30.3 91.0
150 157.3 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: 0.230 ug/l

RT: 12.04 min Scan# 3193

Delta R.T. -0.03 min

Lab File: VN057871.D

Acq: 10 Sep 2019 18:30

Instrument :

MSVOA_N

ClientSampled :

PAR-11-C3-(4)

Tgt Ion: 43 Resp: 1858

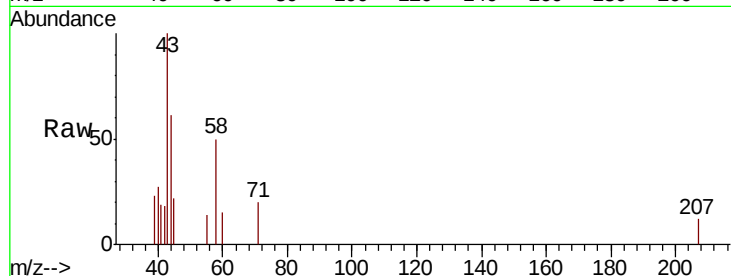
Ion Ratio Lower Upper

43 100

70 0.0 30.6 45.8#

55 7.2 18.6 27.8#

61 0.0 17.4 26.2#

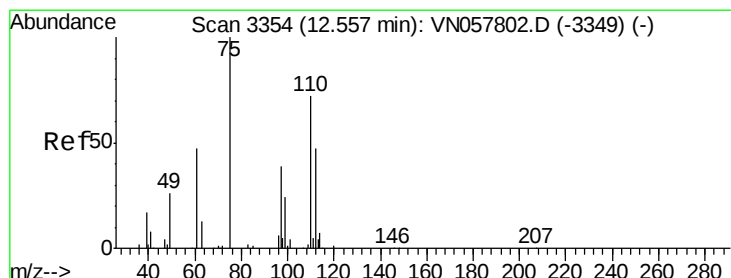
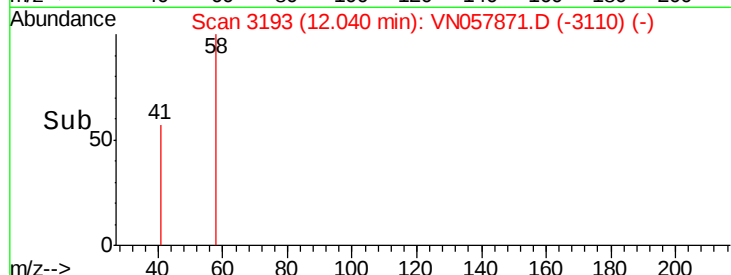
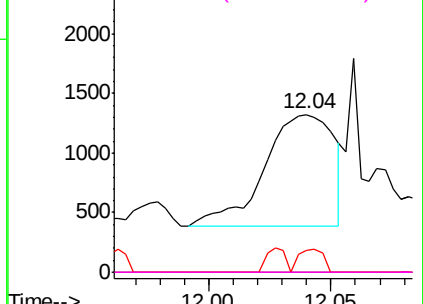


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 30.588 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN057871.D

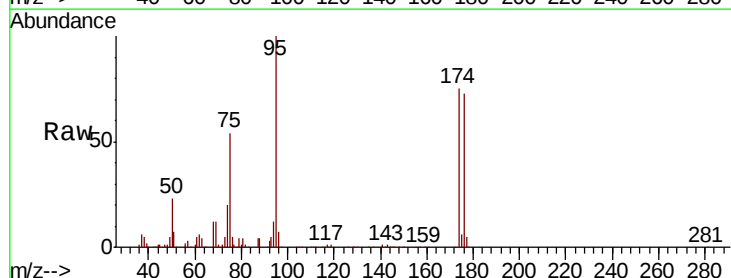
Acq: 10 Sep 2019 18:30

Tgt Ion: 75 Resp: 165772

Ion Ratio Lower Upper

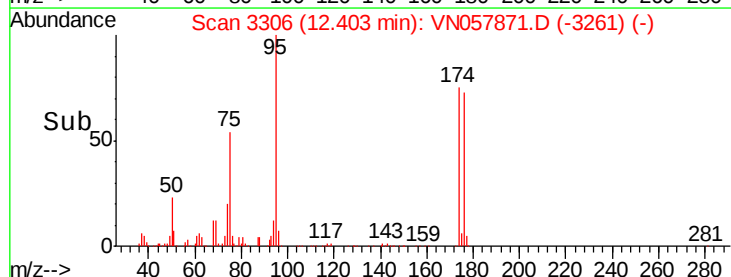
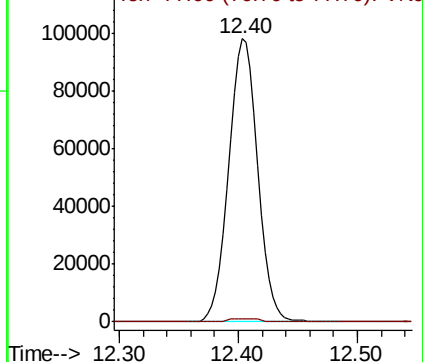
75 100

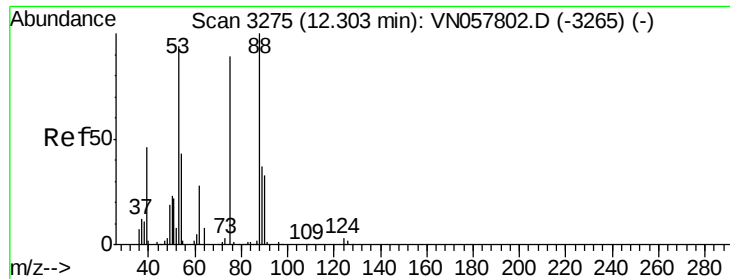
77 1.3 0.0 0.0#



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: 107.641 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN057871.D

Acq: 10 Sep 2019 18:30

Instrument :

MSVOA_N

ClientSampleId :

PAR-11-C3-(4)

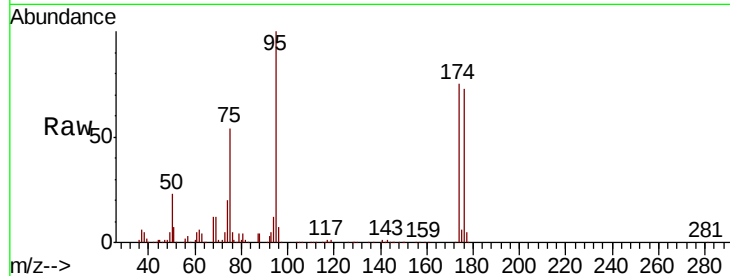
Tgt Ion: 75 Resp: 165772

Ion Ratio Lower Upper

75 100

53 0.0 88.4 132.6#

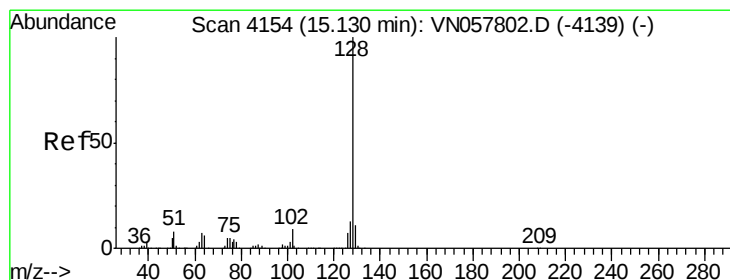
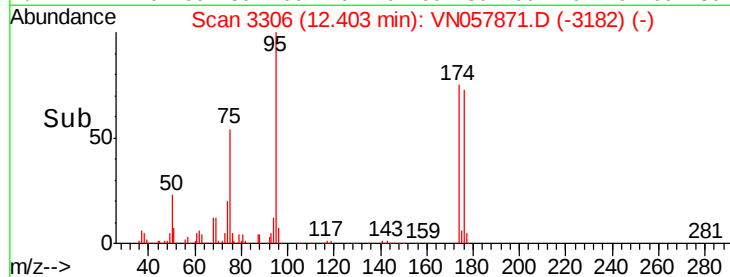
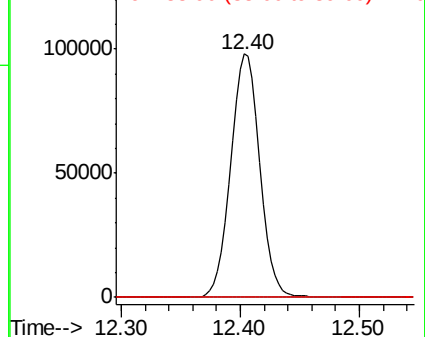
89 0.0 35.3 52.9#



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: VN057871.D

Acq: 10 Sep 2019 18:30

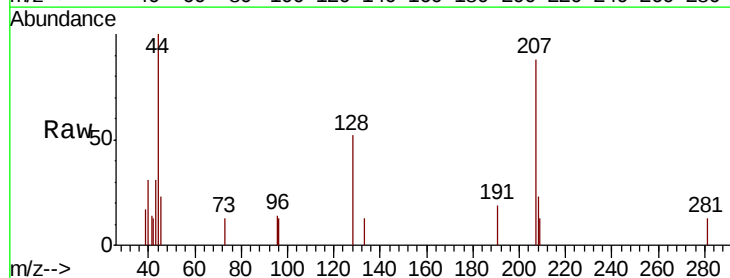
Tgt Ion: 128 Resp: 1209

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

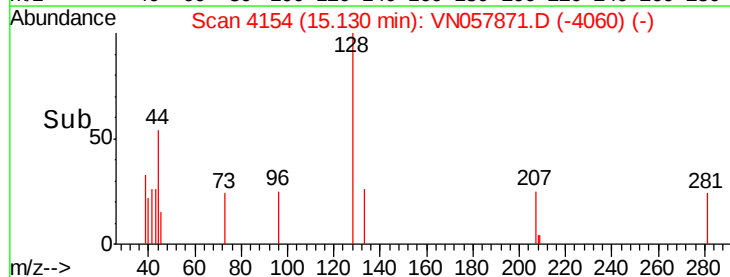
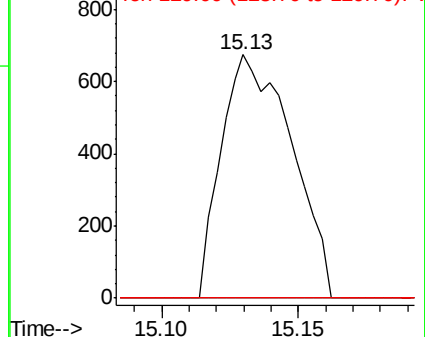
129 0.0 8.6 12.8#

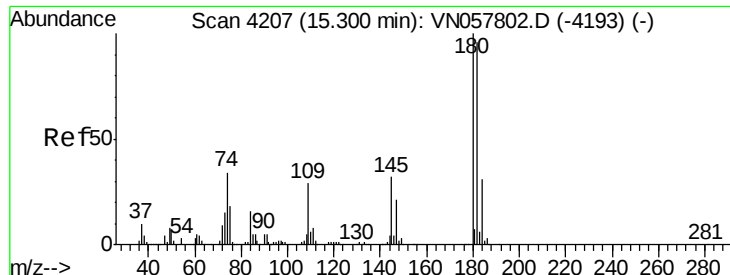


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

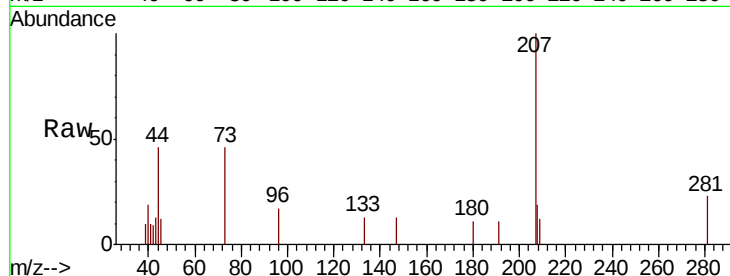




#96
 1,2,3-Trichlorobenzene
 Concen: 1.036 ug/l
 RT: 15.29 min Scan# 4204
 Delta R.T. -0.01 min
 Lab File: VN057871.D
 Acq: 10 Sep 2019 18:30

Instrument :
 MSVOA_N
 ClientSampleId :
 PAR-11-C3-(4)

Tgt Ion	Ratio	Lower	Upper
180	100		
182	32.4	48.3	144.8#
145	0.0	16.3	48.8#



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

