

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN091319\
 Data File : VN057993.D
 Acq On : 13 Sep 2019 00:30
 Operator : JC/SP
 Sample : K4680-33
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 T3-2-(0)

Quant Time: Sep 13 04:53:08 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	266197	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	472848	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	437333	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	224143	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	319138	59.19	ug/l	0.00
Spiked Amount			Recovery	=	118.38%	
35) Dibromofluoromethane	7.58	113	220378	50.50	ug/l	0.00
Spiked Amount			Recovery	=	101.00%	
50) Toluene-d8	10.09	98	854903	50.45	ug/l	0.00
Spiked Amount			Recovery	=	100.90%	
62) 4-Bromofluorobenzene	12.41	95	282172	43.70	ug/l	0.00
Spiked Amount			Recovery	=	87.40%	

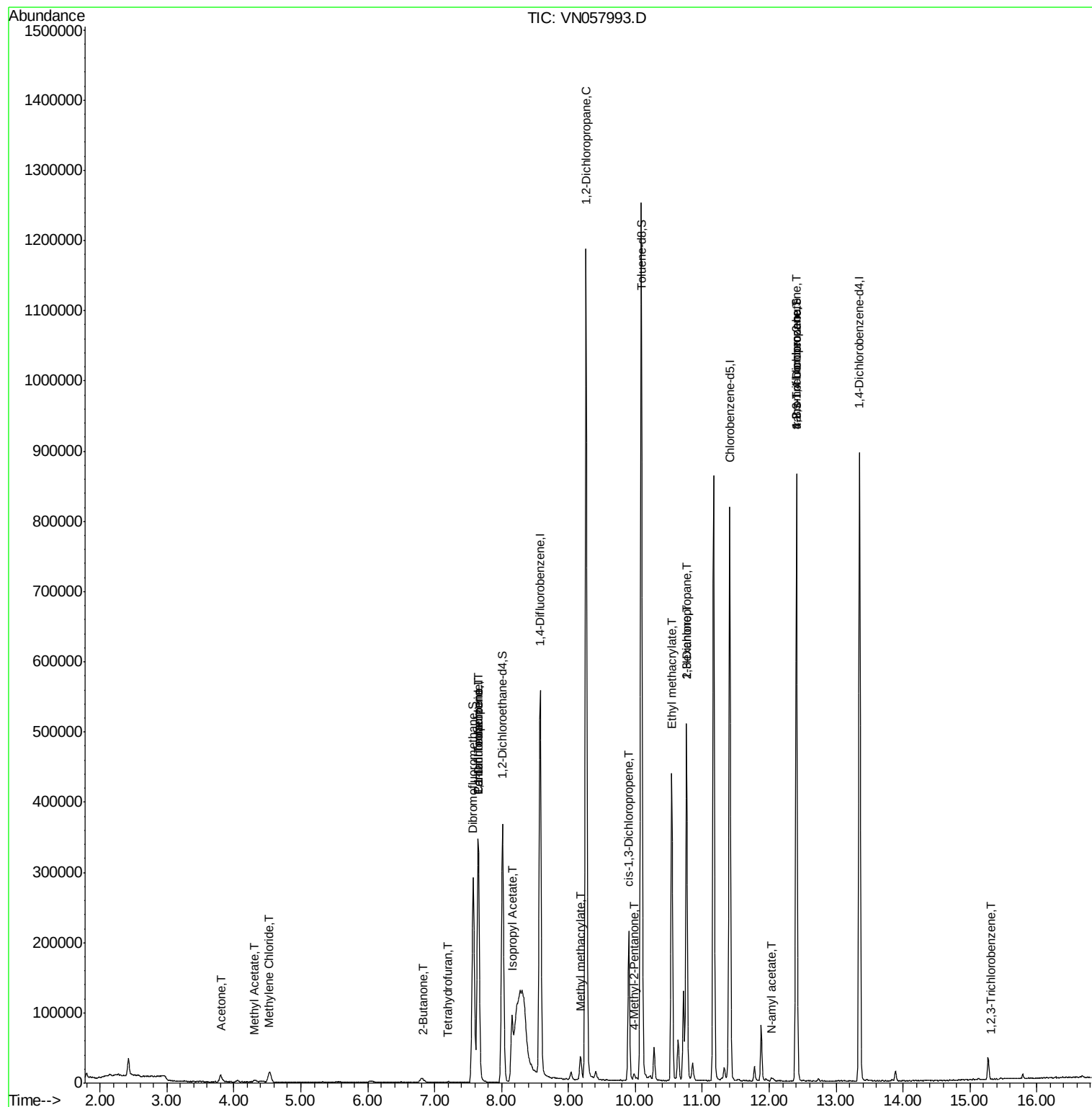
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.53	94	67	Below Cal	#	2
16) Acetone	3.80	43	16217	9.175	ug/l	92
18) Methyl Acetate	4.30	43	1822	0.387	ug/l #	71
20) Methylene Chloride	4.53	84	10500	1.937	ug/l	97
25) 2-Butanone	6.84	43	2427	0.949	ug/l	92
29) Tetrahydrofuran	7.20	42	494	0.313	ug/l #	34
31) Cyclohexane	7.65	56	6781	Below Cal	#	1
36) 1,1-Dichloropropene	7.65	75	23356	4.259	ug/l #	51
38) Carbon Tetrachloride	7.65	117	27546	5.502	ug/l #	16
43) Isopropyl Acetate	8.16	43	107724	11.306	ug/l #	83
45) 1,2-Dichloropropane	9.26	63	1208	0.251	ug/l #	44
48) Methyl methacrylate	9.17	41	4536	0.939	ug/l #	13
51) 4-Methyl-2-Pentanone	9.98	43	7189	1.275	ug/l	90
54) cis-1,3-Dichloropropene	9.90	75	35450	5.260	ug/l #	70
56) Ethyl methacrylate	10.54	69	1600	0.241	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	5139	0.677	ug/l #	43
59) 2-Hexanone	10.76	43	76176	18.025	ug/l #	54
74) N-amyl acetate	12.04	43	4111	0.543	ug/l #	51
76) 1,2,3-Trichloropropane	12.41	75	155658	30.699	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.41	75	155658	108.029	ug/l #	6
95) Naphthalene	15.13	128	336	Below Cal	#	69
96) 1,2,3-Trichlorobenzene	15.31	180	34	1.006	ug/l #	12

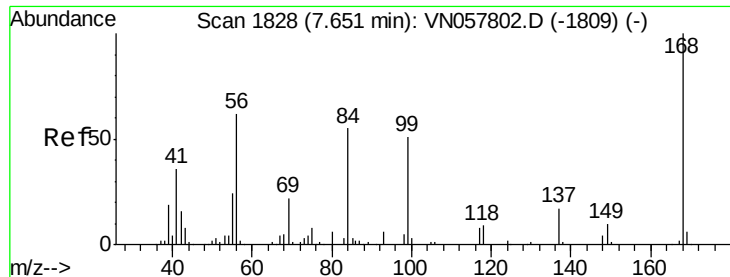
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN057993.D

Acq: 13 Sep 2019 00:30

Instrument :

MSVOA_N

ClientSampleId :

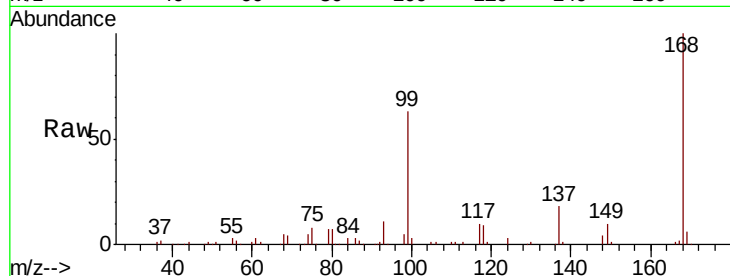
T3-2-(0)

Tgt Ion:168 Resp: 266197

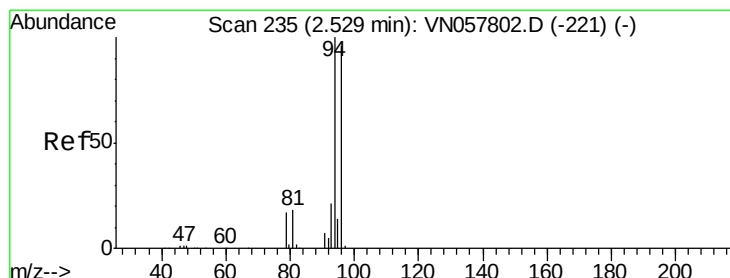
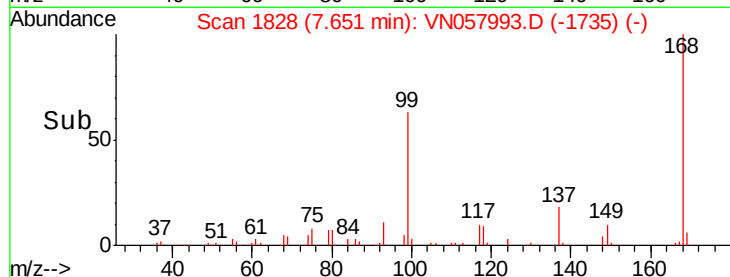
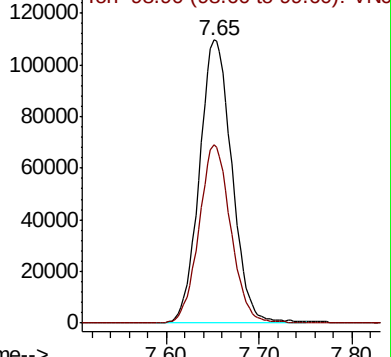
Ion Ratio Lower Upper

168 100

99 62.9 48.0 72.0



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



#5

Bromomethane

Concen: Below Cal

RT: 2.53 min Scan# 235

Delta R.T. 0.00 min

Lab File: VN057993.D

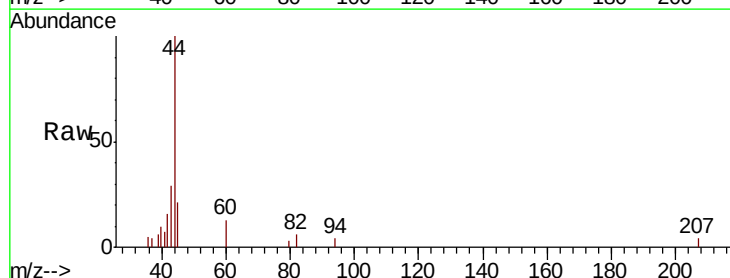
Acq: 13 Sep 2019 00:30

Tgt Ion: 94 Resp: 67

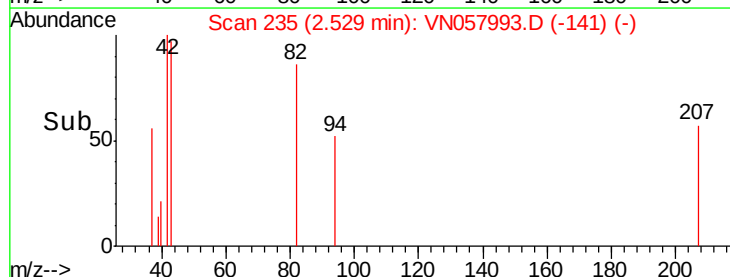
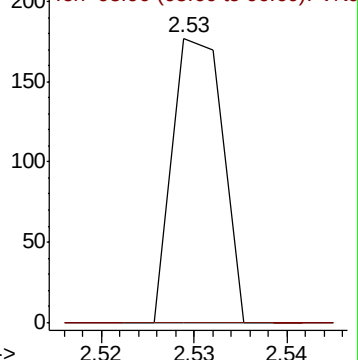
Ion Ratio Lower Upper

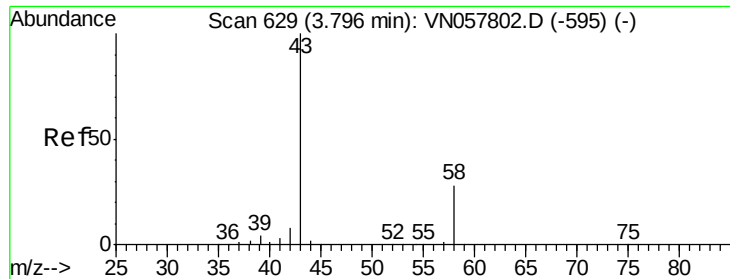
94 100

96 0.0 77.0 115.4#



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





#16

Acetone

Concen: 9.175 ug/l

RT: 3.80 min Scan# 631

Delta R.T. 0.01 min

Lab File: VN057993.D

Acq: 13 Sep 2019 00:30

Instrument :

MSVOA_N

ClientSampled :

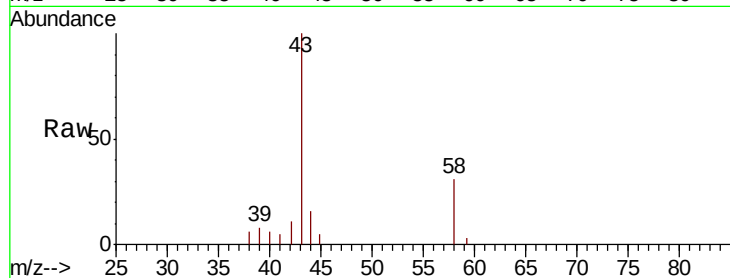
T3-2-(0)

Tgt Ion: 43 Resp: 16217

Ion Ratio Lower Upper

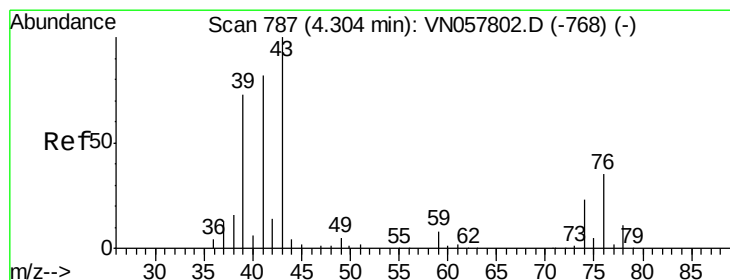
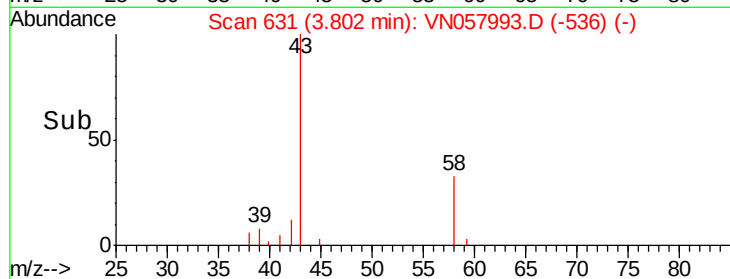
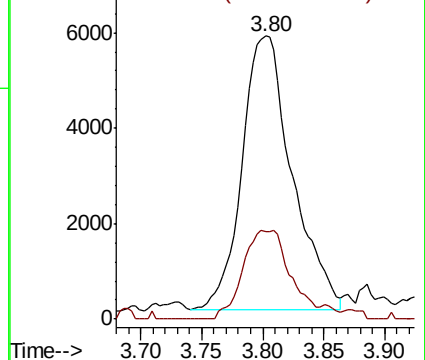
43 100

58 32.0 22.2 33.2



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: 0.387 ug/l

RT: 4.30 min Scan# 785

Delta R.T. -0.01 min

Lab File: VN057993.D

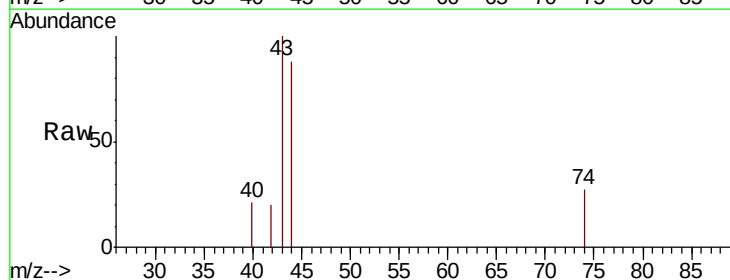
Acq: 13 Sep 2019 00:30

Tgt Ion: 43 Resp: 1822

Ion Ratio Lower Upper

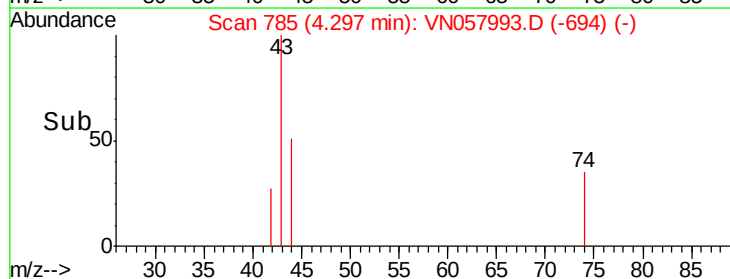
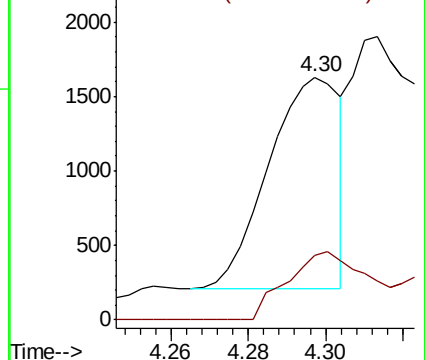
43 100

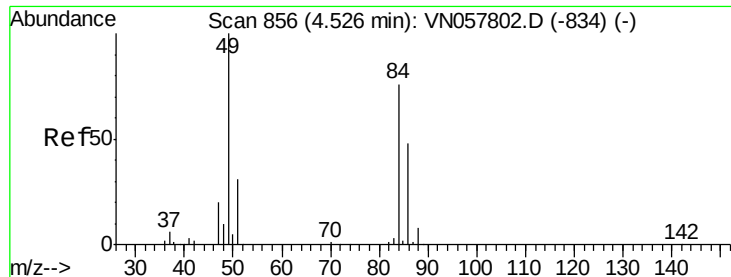
74 36.3 17.9 26.9#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

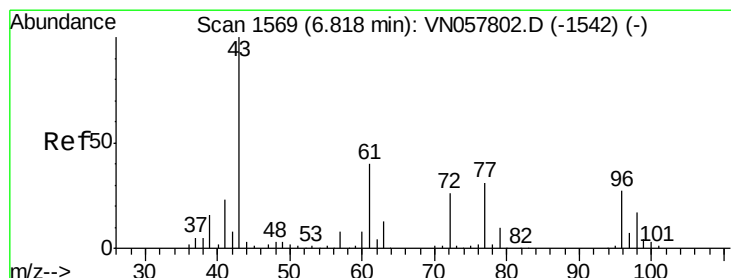
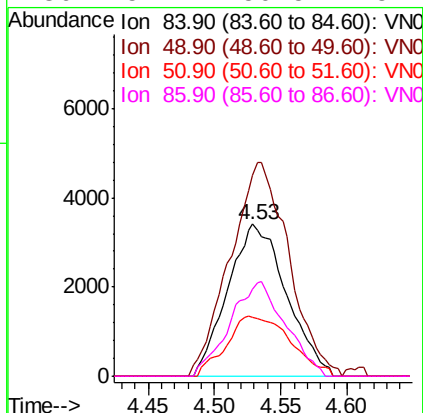
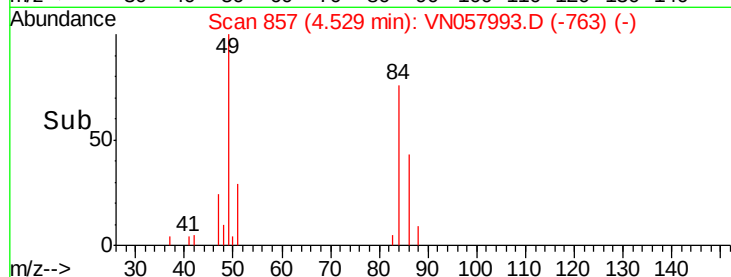
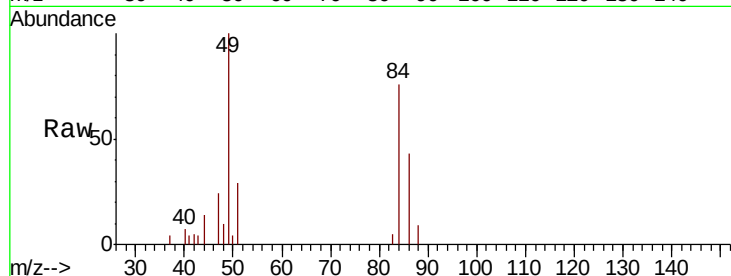




#20
Methylene Chloride
Concen: 1.937 ug/l
RT: 4.53 min Scan# 857
Delta R.T. 0.00 min
Lab File: VN057993.D
Acq: 13 Sep 2019 00:30

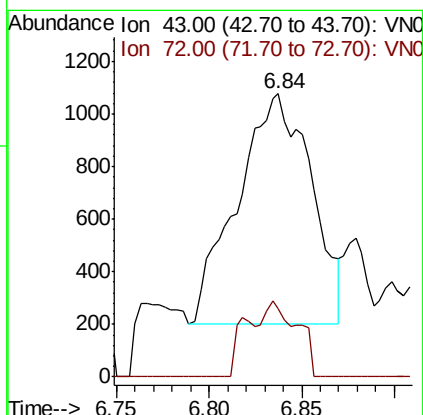
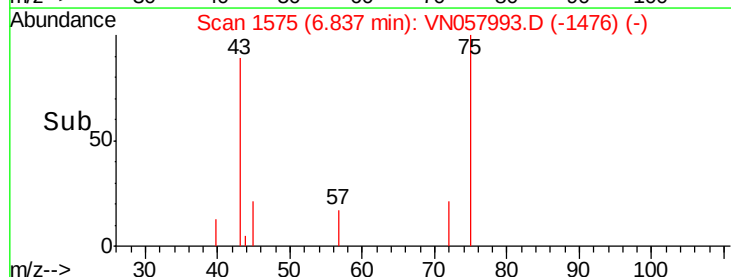
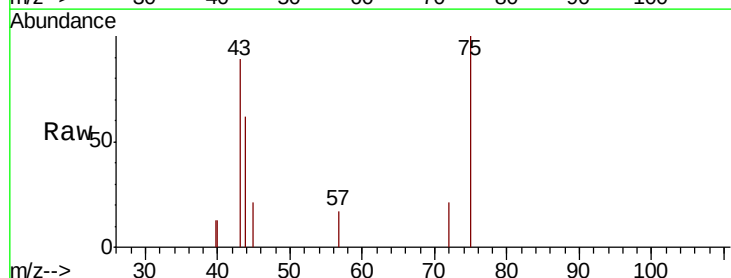
Instrument :
MSVOA_N
ClientSampleId :
T3-2-(0)

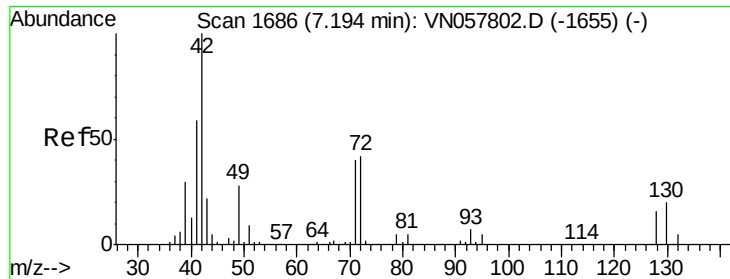
Tgt Ion:	84	Resp:	10500
Ion	Ratio	Lower	Upper
84	100		
49	132.3	104.8	157.2
51	38.7	33.0	49.4
86	57.1	50.5	75.7



#25
2-Butanone
Concen: 0.949 ug/l
RT: 6.84 min Scan# 1575
Delta R.T. 0.02 min
Lab File: VN057993.D
Acq: 13 Sep 2019 00:30

Tgt Ion:	43	Resp:	2427
Ion	Ratio	Lower	Upper
43	100		
72	29.8	20.6	30.8





#29

Tetrahydrofuran

Concen: 0.313 ug/l

RT: 7.20 min Scan# 1689

Delta R.T. 0.01 min

Lab File: VN057993.D

Acq: 13 Sep 2019 00:30

Instrument :

MSVOA_N

ClientSampleId :

T3-2-(0)

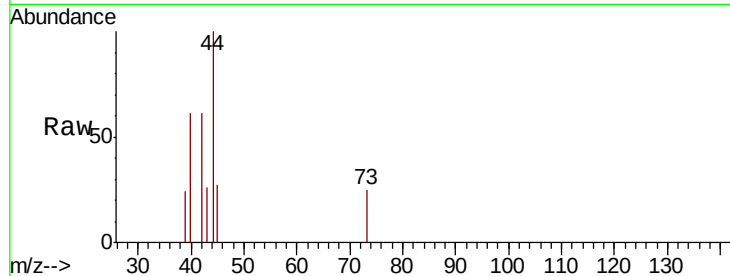
Tgt Ion: 42 Resp: 494

Ion Ratio Lower Upper

42 100

72 0.0 33.7 50.5#

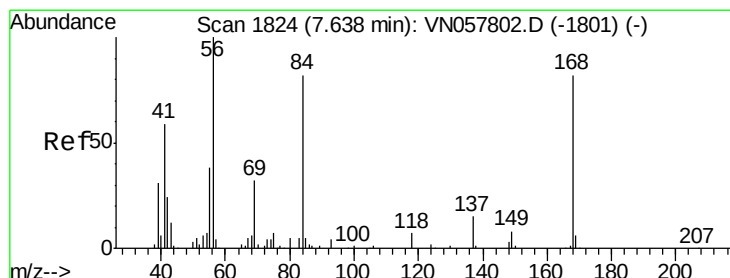
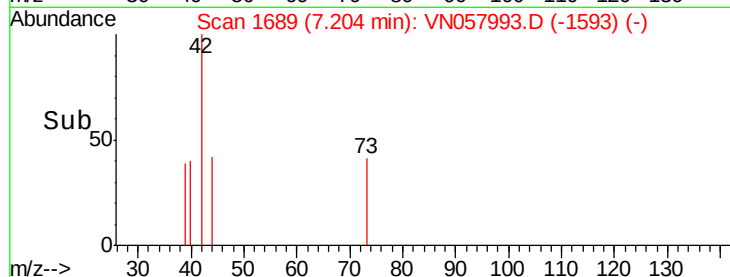
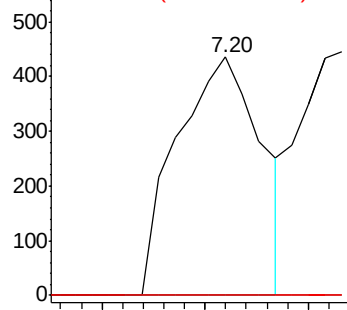
71 0.0 31.9 47.9#



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0



#31

Cyclohexane

Concen: Below Cal

RT: 7.65 min Scan# 1827

Delta R.T. 0.01 min

Lab File: VN057993.D

Acq: 13 Sep 2019 00:30

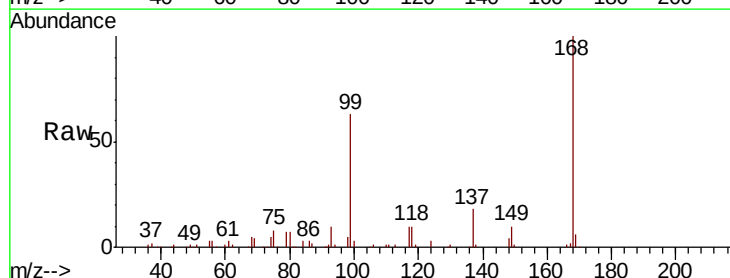
Tgt Ion: 56 Resp: 6781

Ion Ratio Lower Upper

56 100

69 166.4 25.9 38.9#

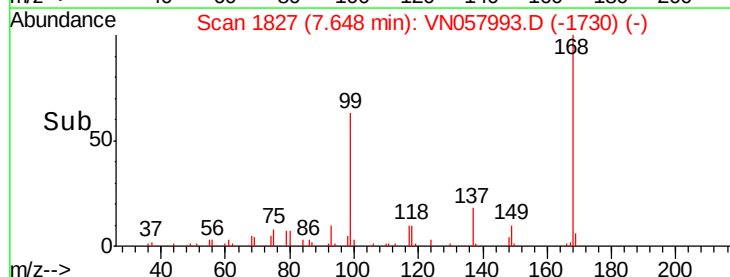
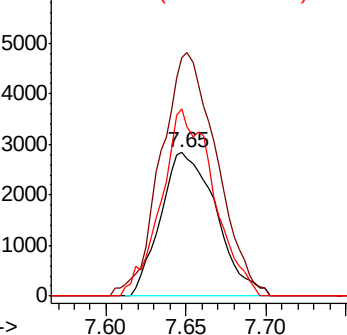
84 130.3 65.6 98.4#

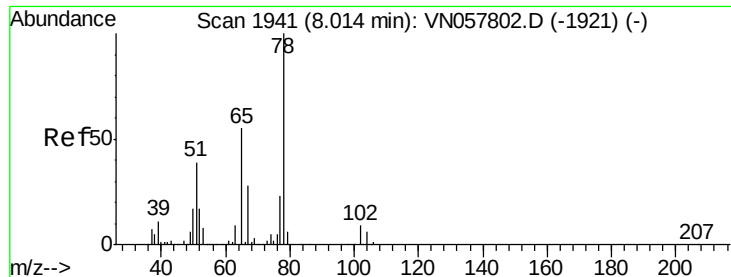


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

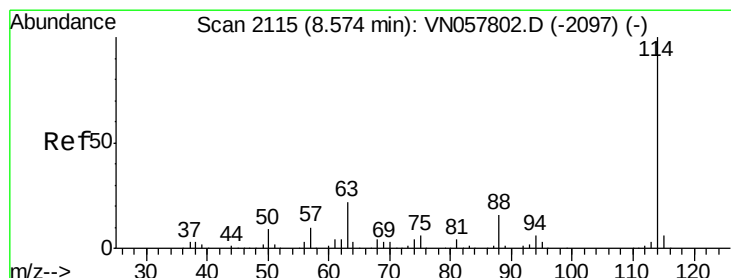
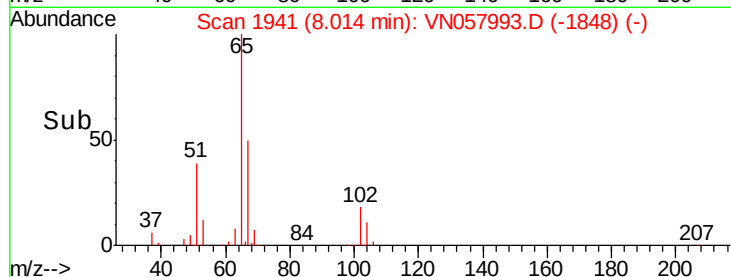
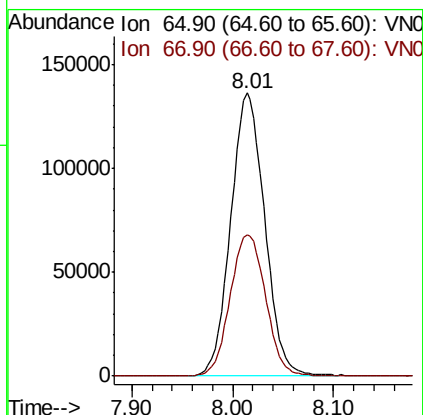
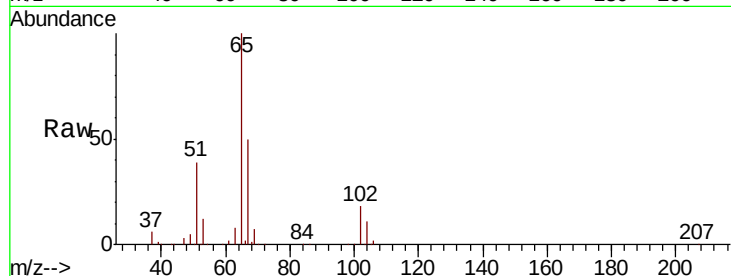




#33
 1,2-Dichloroethane-d4
 Concen: 59.192 ug/l
 RT: 8.01 min Scan# 1941
 Delta R.T. 0.00 min
 Lab File: VN057993.D
 Acq: 13 Sep 2019 00:30

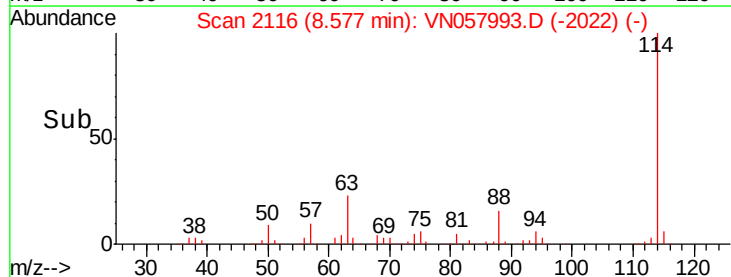
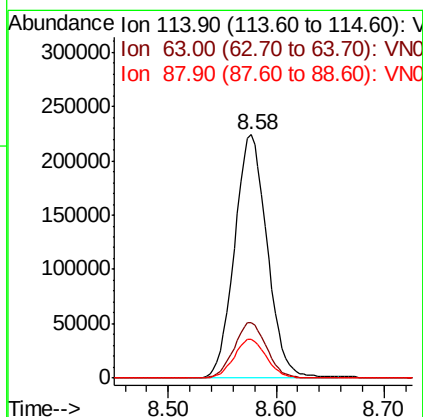
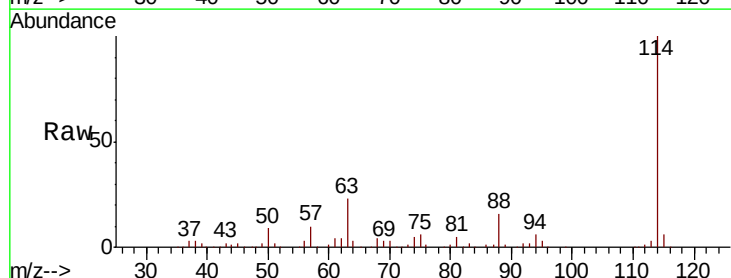
Instrument :
 MSVOA_N
 ClientSampled :
 T3-2-(0)

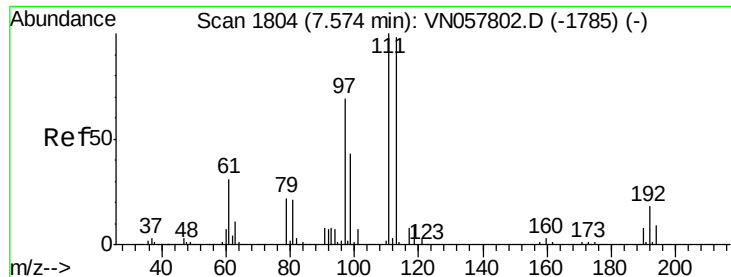
Tgt Ion: 65 Resp: 319138
 Ion Ratio Lower Upper
 65 100
 67 52.2 0.0 104.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2116
 Delta R.T. 0.00 min
 Lab File: VN057993.D
 Acq: 13 Sep 2019 00:30

Tgt Ion: 114 Resp: 472848
 Ion Ratio Lower Upper
 114 100
 63 22.9 0.0 44.0
 88 15.7 0.0 31.4

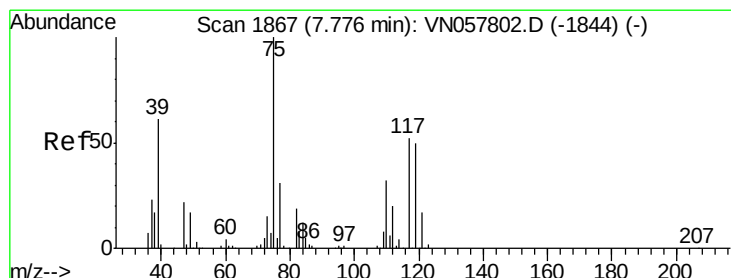
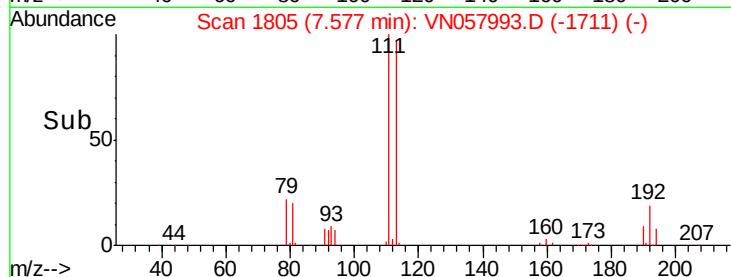
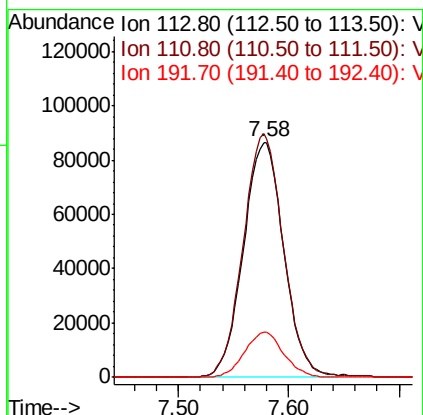
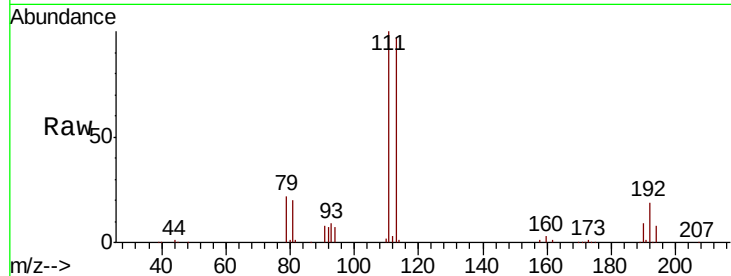




#35
 Dibromofluoromethane
 Concen: 50.497 ug/l
 RT: 7.58 min Scan# 1805
 Delta R.T. 0.00 min
 Lab File: VN057993.D
 Acq: 13 Sep 2019 00:30

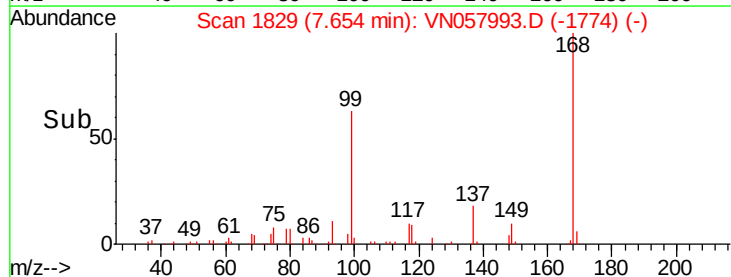
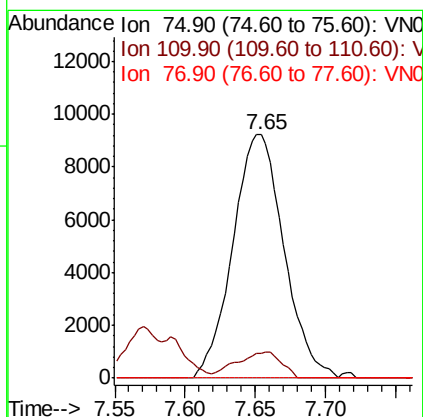
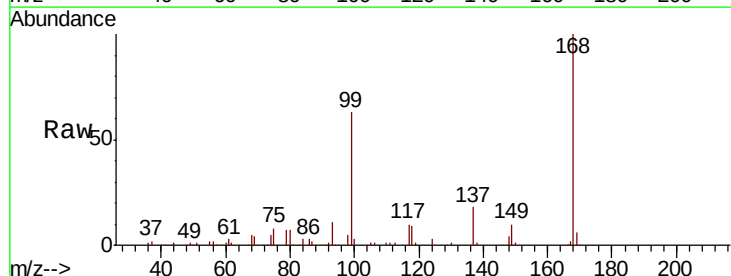
Instrument :
 MSVOA_N
 ClientSampleId :
 T3-2-(0)

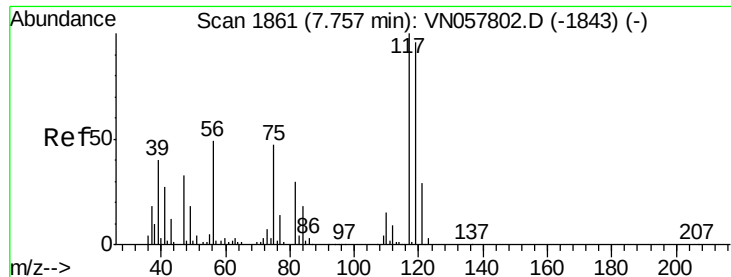
Tgt Ion:113 Resp: 220378
 Ion Ratio Lower Upper
 113 100
 111 103.1 81.3 121.9
 192 18.6 14.6 22.0



#36
 1,1-Dichloropropene
 Concen: 4.259 ug/l
 RT: 7.65 min Scan# 1829
 Delta R.T. -0.12 min
 Lab File: VN057993.D
 Acq: 13 Sep 2019 00:30

Tgt Ion: 75 Resp: 23356
 Ion Ratio Lower Upper
 75 100
 110 9.4 16.3 48.9#
 77 0.0 25.0 37.4#





#38

Carbon Tetrachloride

Concen: 5.502 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. -0.10 min

Lab File: VN057993.D

Acq: 13 Sep 2019 00:30

Instrument :

MSVOA_N

ClientSampleId :

T3-2-(0)

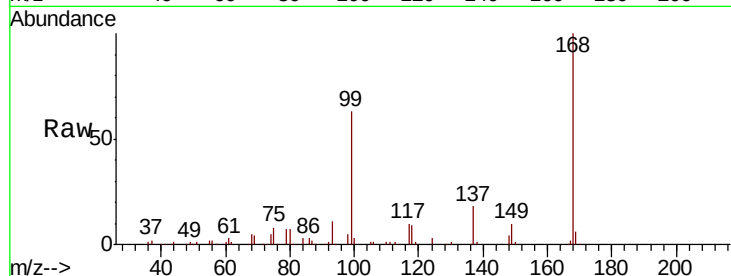
Tgt Ion:117 Resp: 27546

Ion Ratio Lower Upper

117 100

119 5.6 76.9 115.3#

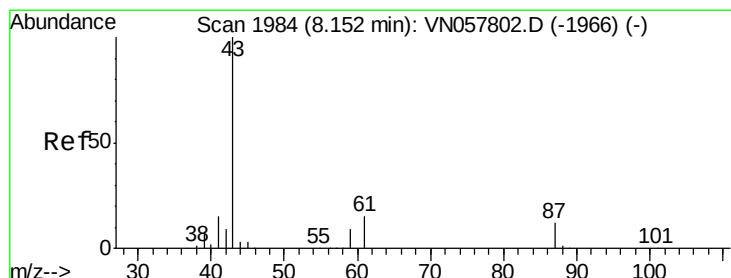
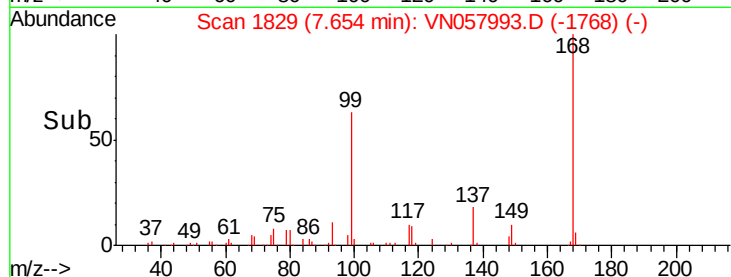
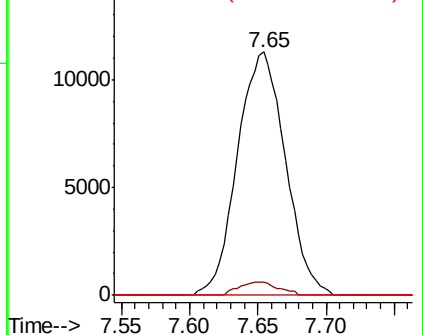
121 0.0 23.4 35.2#



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: 11.306 ug/l

RT: 8.16 min Scan# 1985

Delta R.T. 0.00 min

Lab File: VN057993.D

Acq: 13 Sep 2019 00:30

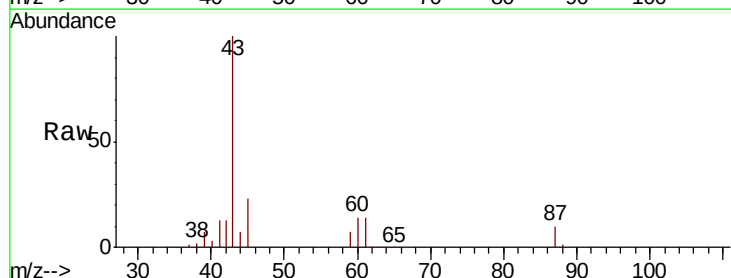
Tgt Ion: 43 Resp: 107724

Ion Ratio Lower Upper

43 100

61 14.2 20.1 30.1#

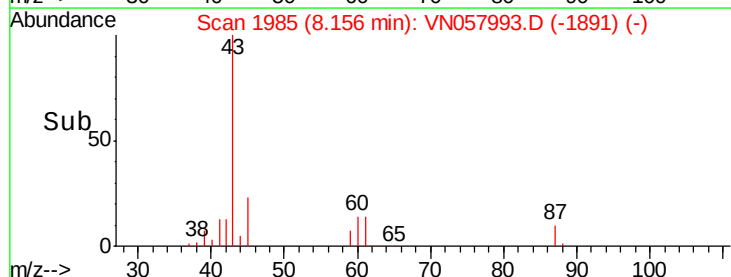
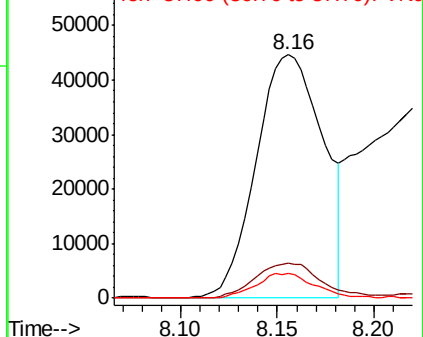
87 9.0 9.5 14.3#

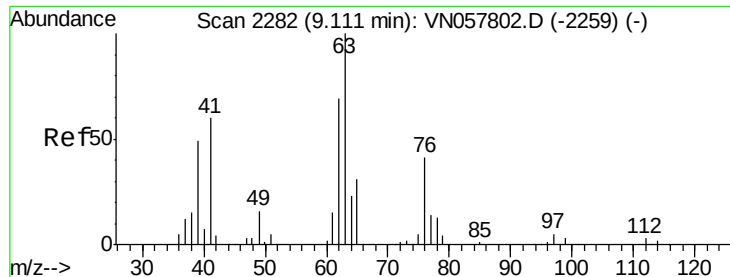


Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 61.00 (60.70 to 61.70): VNO

Ion 87.00 (86.70 to 87.70): VNO

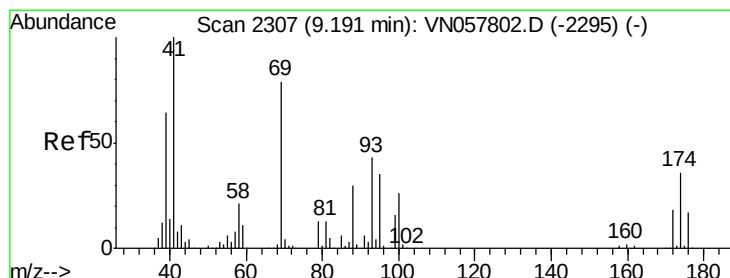
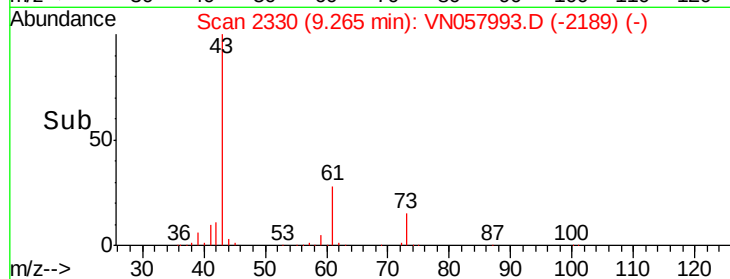
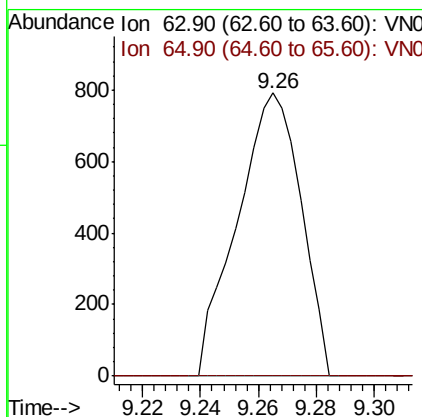
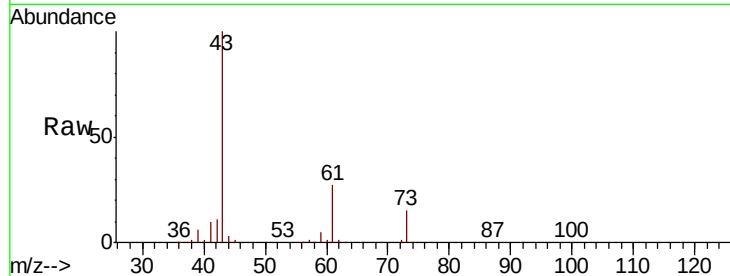




#45
 1,2-Dichloropropane
 Concen: 0.251 ug/l
 RT: 9.26 min Scan# 2330
 Delta R.T. 0.15 min
 Lab File: VN057993.D
 Acq: 13 Sep 2019 00:30

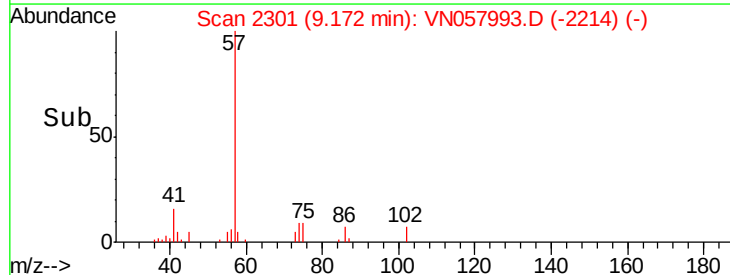
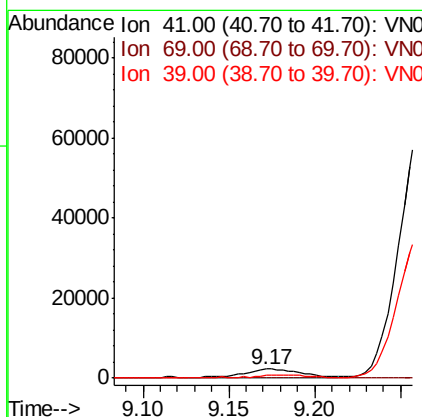
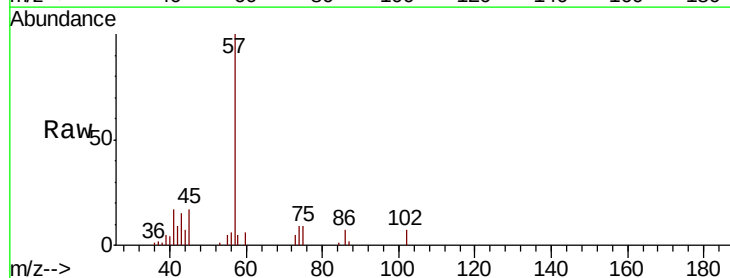
Instrument :
 MSVOA_N
 ClientSampleId :
 T3-2-(0)

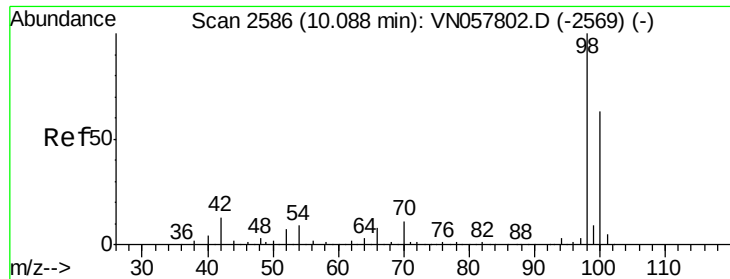
Tgt Ion: 63 Resp: 1208
 Ion Ratio Lower Upper
 63 100
 65 0.0 24.8 37.2#



#48
 Methyl methacrylate
 Concen: 0.939 ug/l
 RT: 9.17 min Scan# 2301
 Delta R.T. -0.02 min
 Lab File: VN057993.D
 Acq: 13 Sep 2019 00:30

Tgt Ion: 41 Resp: 4536
 Ion Ratio Lower Upper
 41 100
 69 0.0 62.7 94.1#
 39 0.0 52.7 79.1#





#50

Toluene-d8

Concen: 50.454 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. 0.00 min

Lab File: VN057993.D

Acq: 13 Sep 2019 00:30

Instrument :

MSVOA_N

ClientSampled :

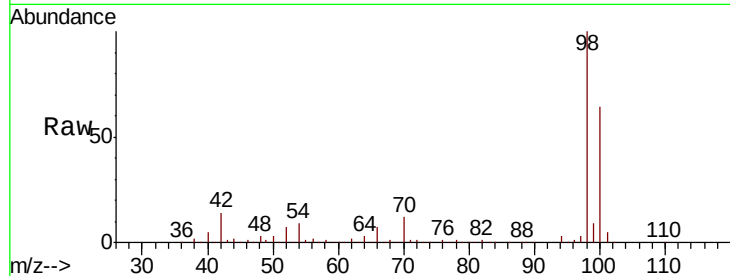
T3-2-(0)

Tgt Ion: 98 Resp: 854903

Ion Ratio Lower Upper

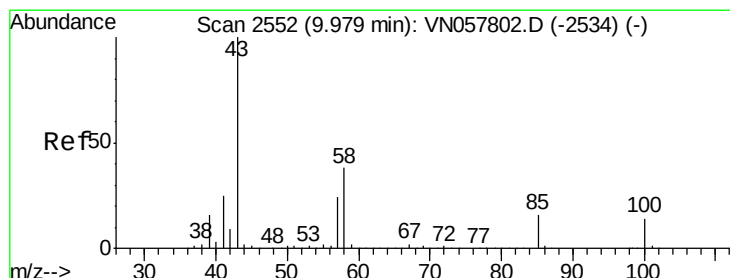
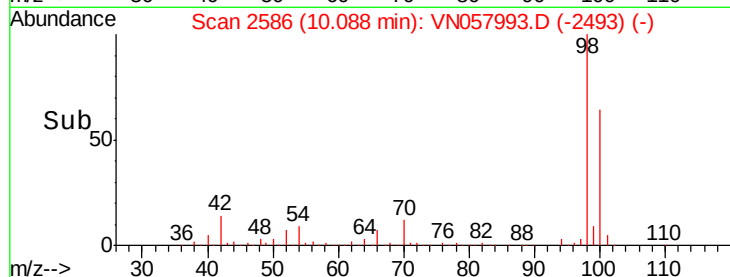
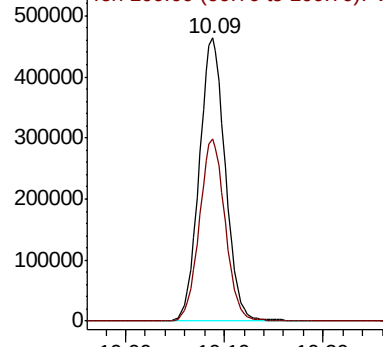
98 100

100 64.1 50.3 75.5



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN



#51

4-Methyl-2-Pentanone

Concen: 1.275 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. 0.00 min

Lab File: VN057993.D

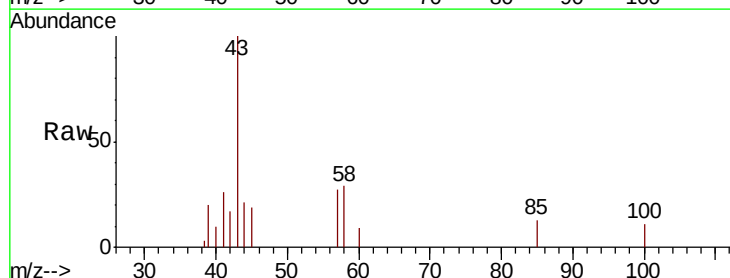
Acq: 13 Sep 2019 00:30

Tgt Ion: 43 Resp: 7189

Ion Ratio Lower Upper

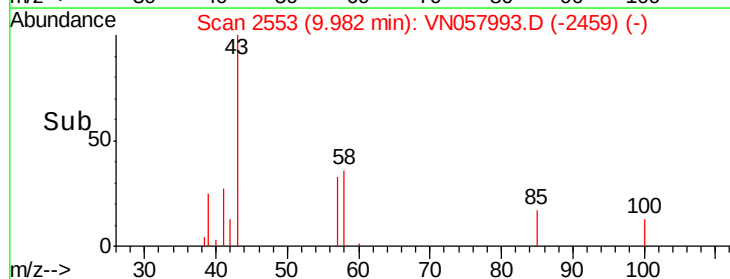
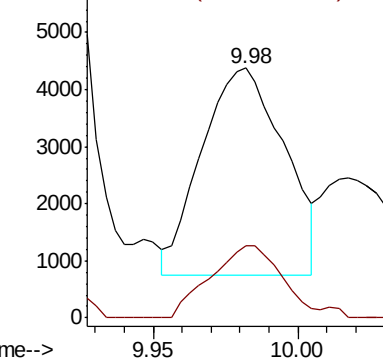
43 100

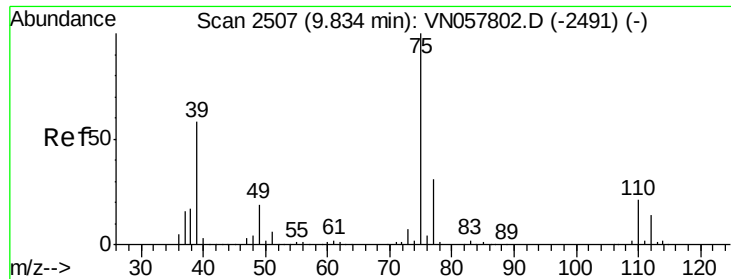
58 31.2 29.8 44.6



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: 5.260 ug/l

RT: 9.90 min Scan# 2528

Delta R.T. 0.07 min

Lab File: VN057993.D

Acq: 13 Sep 2019 00:30

Instrument :

MSVOA_N

ClientSampled :

T3-2-(0)

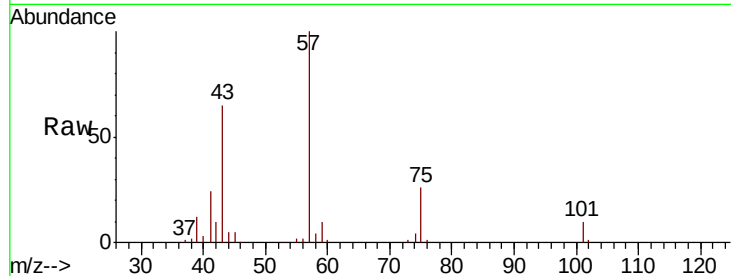
Tgt Ion: 75 Resp: 35450

Ion Ratio Lower Upper

75 100

77 0.0 24.8 37.2#

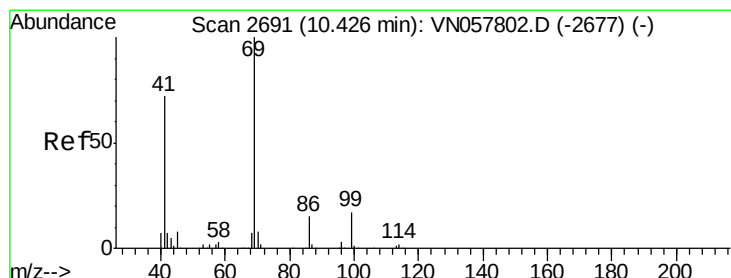
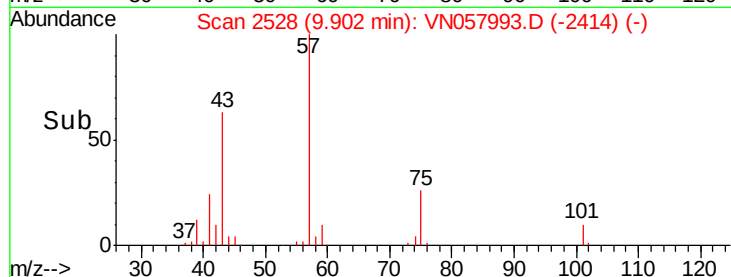
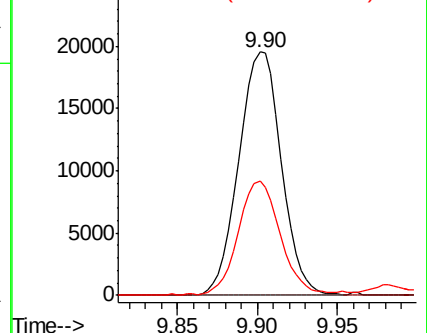
39 46.0 46.2 69.4#



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: 0.241 ug/l

RT: 10.54 min Scan# 2728

Delta R.T. 0.12 min

Lab File: VN057993.D

Acq: 13 Sep 2019 00:30

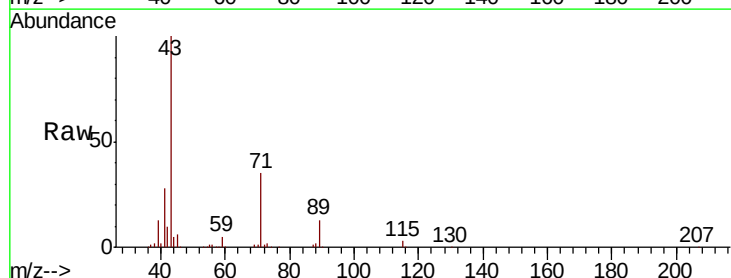
Tgt Ion: 69 Resp: 1600

Ion Ratio Lower Upper

69 100

41 5756.9 56.7 85.1#

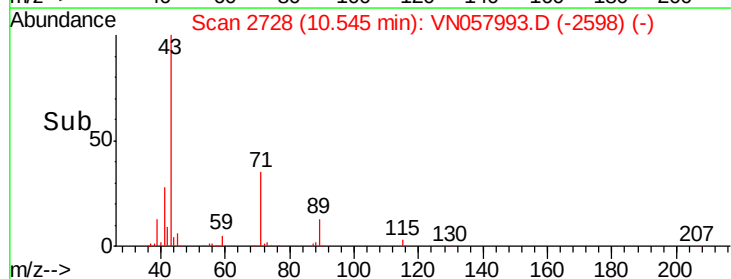
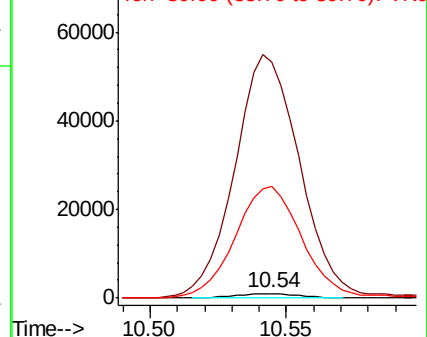
39 2707.4 36.3 54.5#

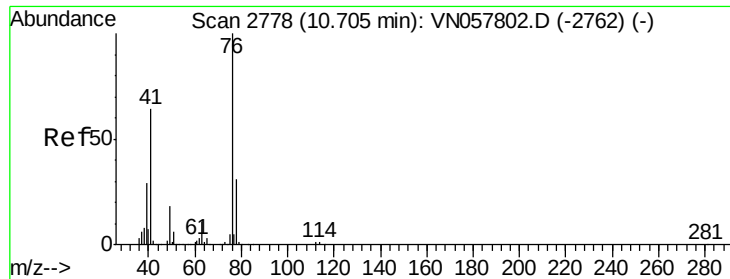


Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

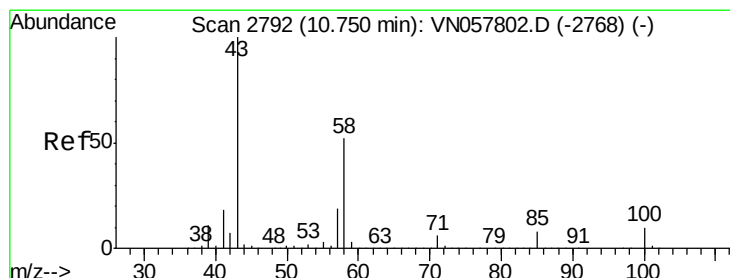
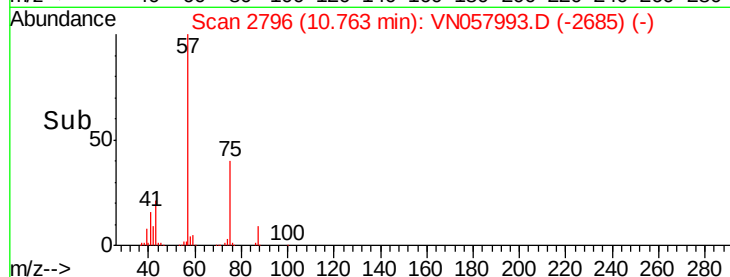
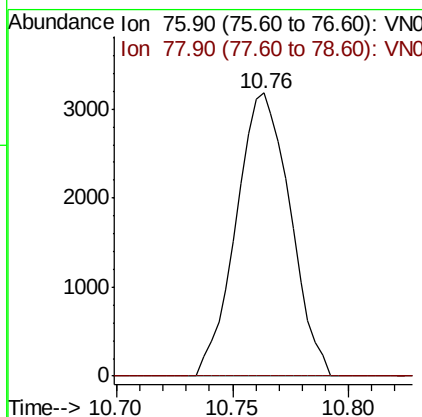
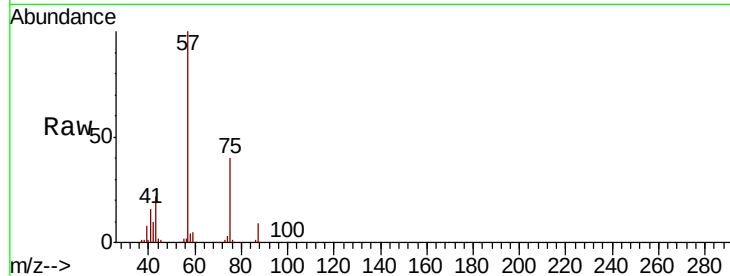




#57
 1,3-Dichloropropane
 Concen: 0.677 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.06 min
 Lab File: VN057993.D
 Acq: 13 Sep 2019 00:30

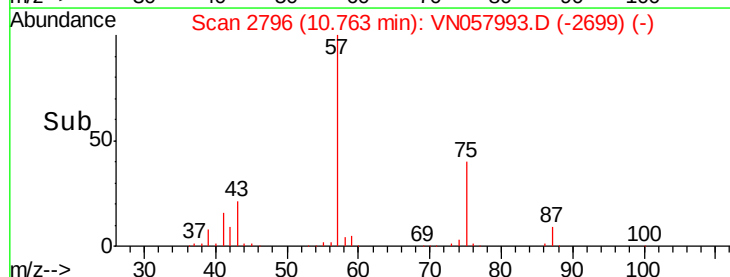
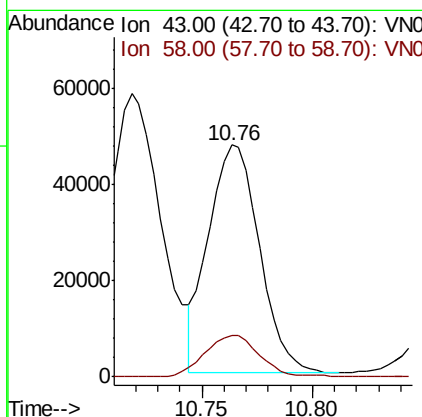
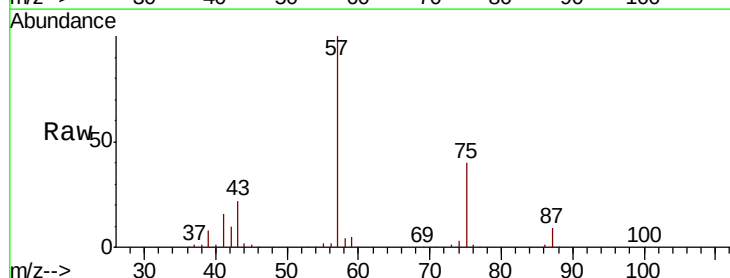
Instrument :
 MSVOA_N
 ClientSampleId :
 T3-2-(0)

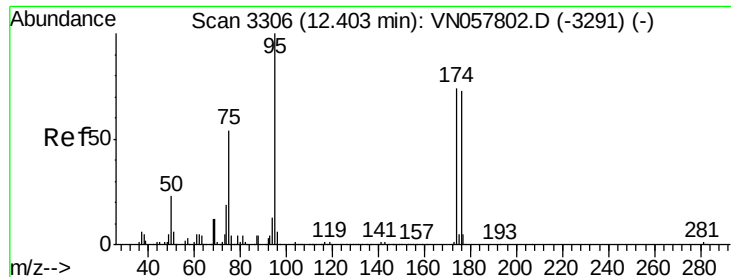
Tgt Ion: 76 Resp: 5139
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.4 38.2#



#59
 2-Hexanone
 Concen: 18.025 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.01 min
 Lab File: VN057993.D
 Acq: 13 Sep 2019 00:30

Tgt Ion: 43 Resp: 76176
 Ion Ratio Lower Upper
 43 100
 58 19.5 25.6 76.8#





#62

4-Bromofluorobenzene

Concen: 43.699 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.00 min

Lab File: VN057993.D

Acq: 13 Sep 2019 00:30

Instrument :

MSVOA_N

ClientSampled :

T3-2-(0)

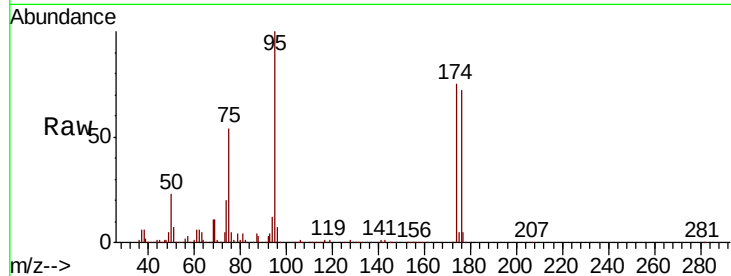
Tgt Ion: 95 Resp: 282172

Ion Ratio Lower Upper

95 100

174 76.2 0.0 150.2

176 72.6 0.0 146.0



Abundance Ion 94.90 (94.60 to 95.60): VN057802.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN057802.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN057802.D (-3291) (-)

12.41

200000

150000

100000

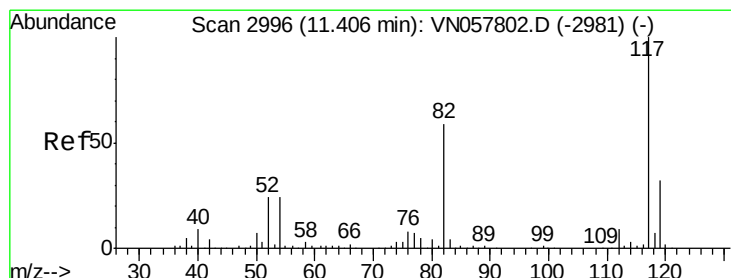
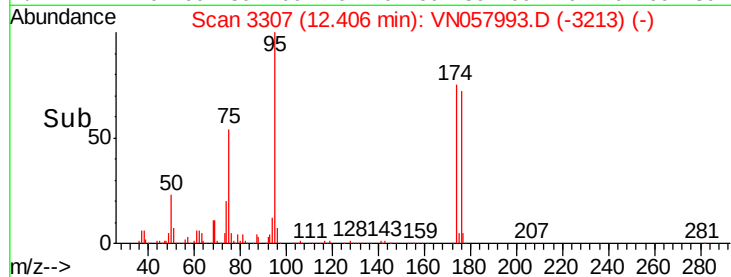
50000

0

12.40

12.50

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN057993.D

Acq: 13 Sep 2019 00:30

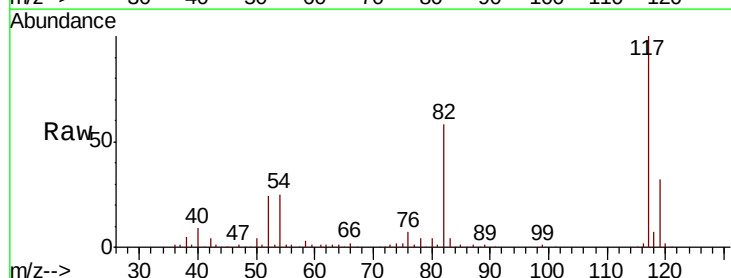
Tgt Ion: 117 Resp: 437333

Ion Ratio Lower Upper

117 100

82 58.4 47.2 70.8

119 31.8 25.3 37.9



Abundance Ion 116.90 (116.60 to 117.60): VN057802.D (-2981) (-)

Ion 82.00 (81.70 to 82.70): VN057802.D (-2981) (-)

Ion 118.90 (118.60 to 119.60): VN057802.D (-2981) (-)

11.41

300000

200000

100000

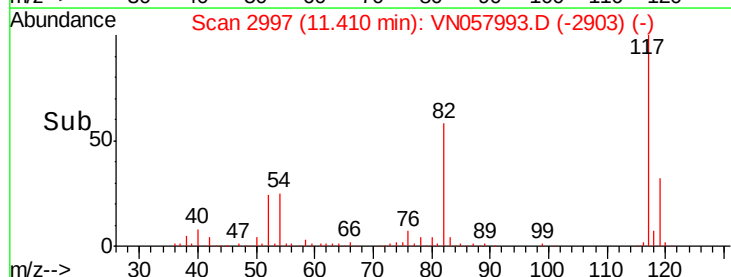
0

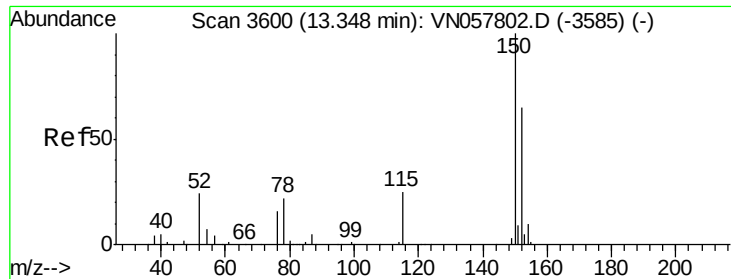
11.30

11.40

11.50

Time-->

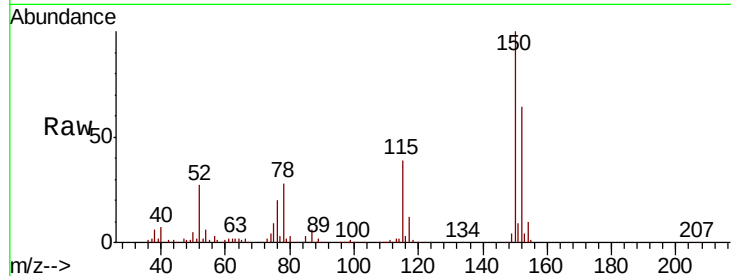




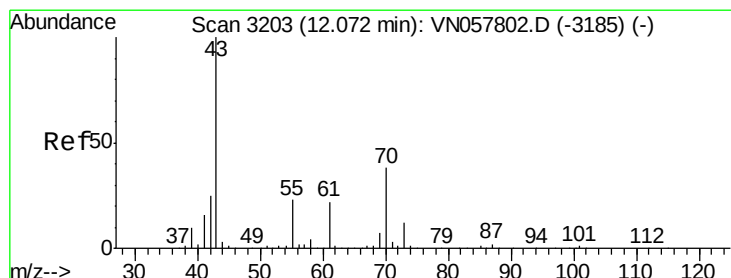
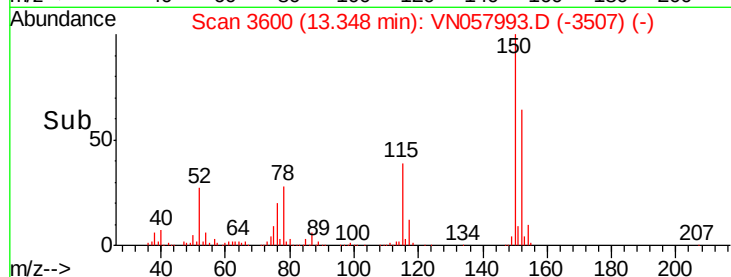
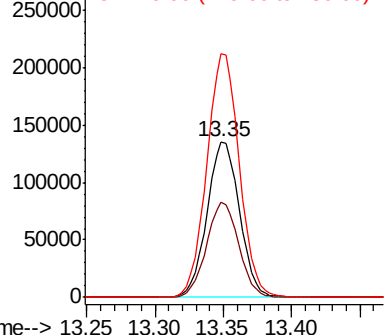
#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.35 min Scan# 3600
 Delta R.T. 0.00 min
 Lab File: VN057993.D
 Acq: 13 Sep 2019 00:30

Instrument :
 MSVOA_N
 ClientSampled :
 T3-2-(0)

Tgt Ion: 152 Resp: 224143
 Ion Ratio Lower Upper
 152 100
 115 60.7 30.3 91.0
 150 157.0 0.0 352.4

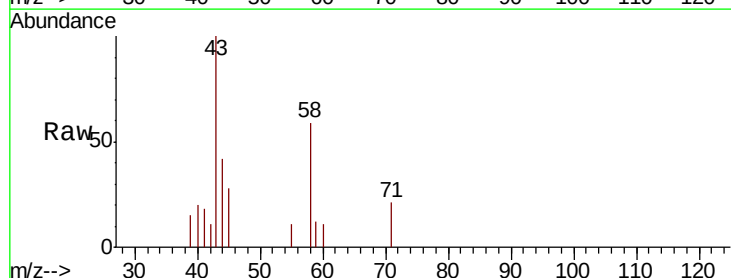


Abundance Ion 151.90 (151.60 to 152.60): V
 Ion 114.90 (114.60 to 115.60): V
 Ion 149.90 (149.60 to 150.60): V

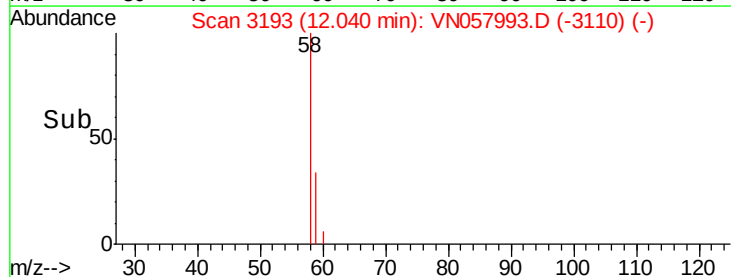
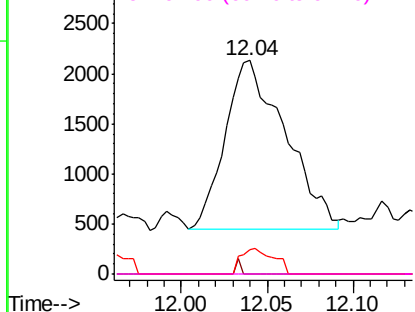


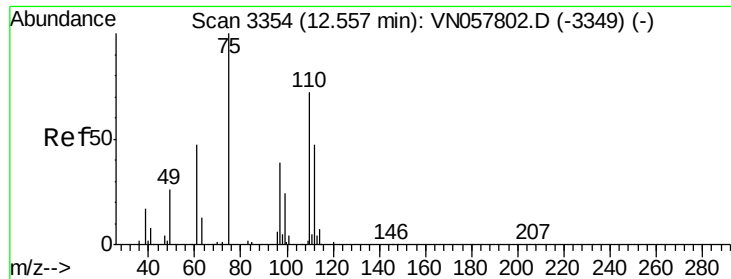
#74
 N-ethyl acetate
 Concen: 0.543 ug/l
 RT: 12.04 min Scan# 3193
 Delta R.T. -0.03 min
 Lab File: VN057993.D
 Acq: 13 Sep 2019 00:30

Tgt Ion: 43 Resp: 4111
 Ion Ratio Lower Upper
 43 100
 70 0.7 30.6 45.8#
 55 8.1 18.6 27.8#
 61 0.0 17.4 26.2#



Abundance Ion 43.00 (42.70 to 43.70): VNO
 Ion 70.00 (69.70 to 70.70): VNO
 Ion 55.00 (54.70 to 55.70): VNO
 Ion 61.00 (60.70 to 61.70): VNO

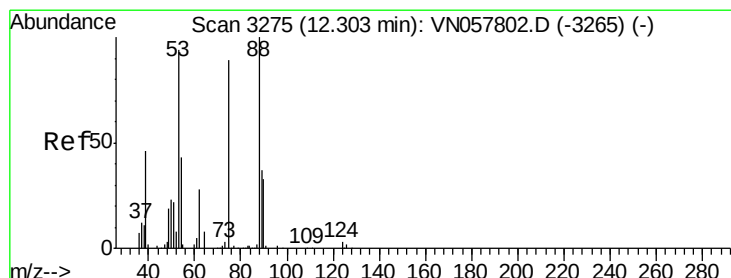
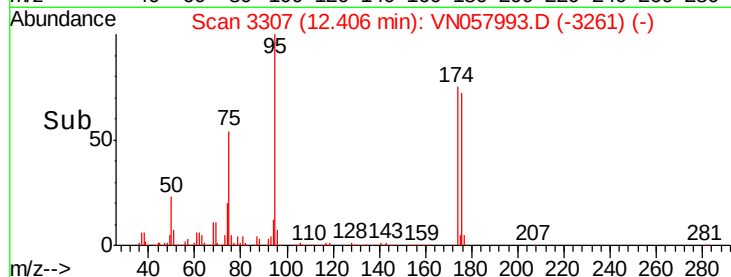
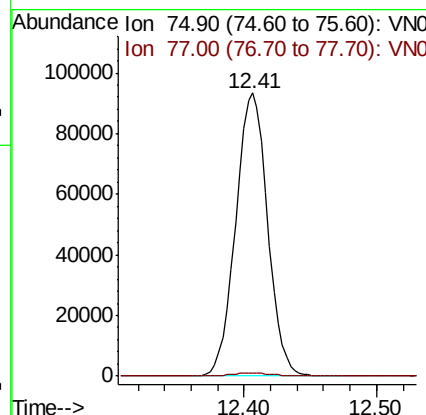
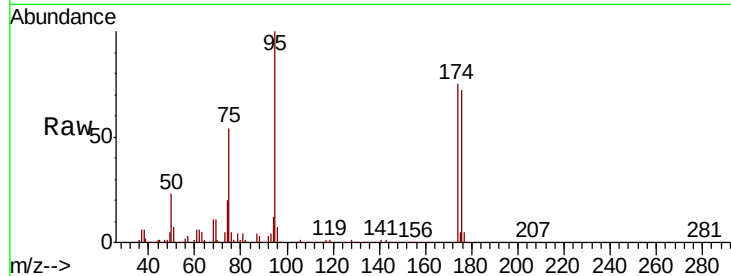




#76
 1,2,3-Trichloropropane
 Concen: 30.699 ug/l
 RT: 12.41 min Scan# 3307
 Delta R.T. -0.15 min
 Lab File: VN057993.D
 Acq: 13 Sep 2019 00:30

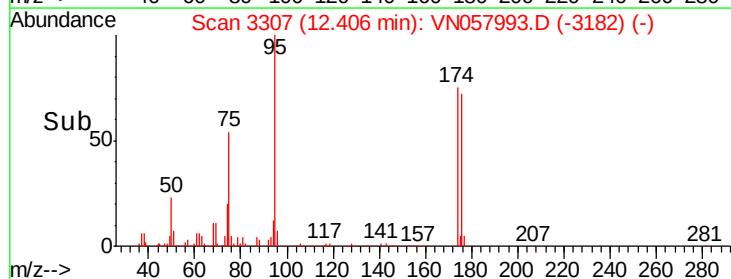
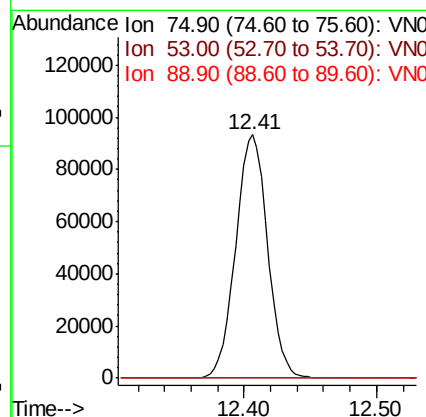
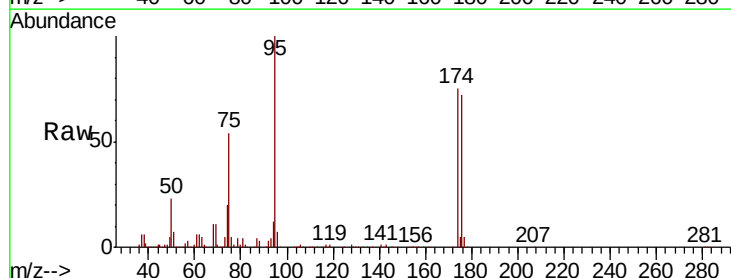
Instrument :
 MSVOA_N
 ClientSampled :
 T3-2-(0)

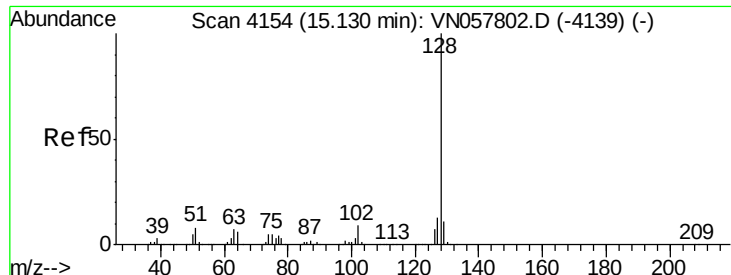
Tgt Ion: 75 Resp: 155658
 Ion Ratio Lower Upper
 75 100
 77 1.4 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 108.029 ug/l
 RT: 12.41 min Scan# 3307
 Delta R.T. 0.10 min
 Lab File: VN057993.D
 Acq: 13 Sep 2019 00:30

Tgt Ion: 75 Resp: 155658
 Ion Ratio Lower Upper
 75 100
 53 0.0 88.4 132.6#
 89 0.0 35.3 52.9#

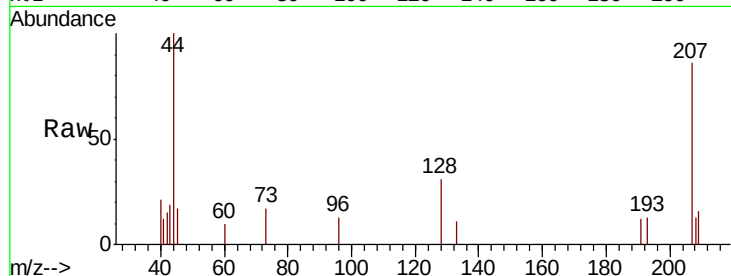




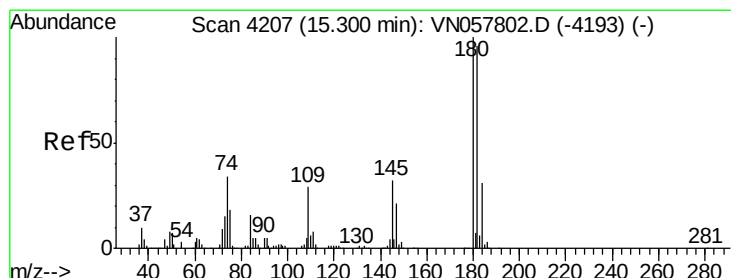
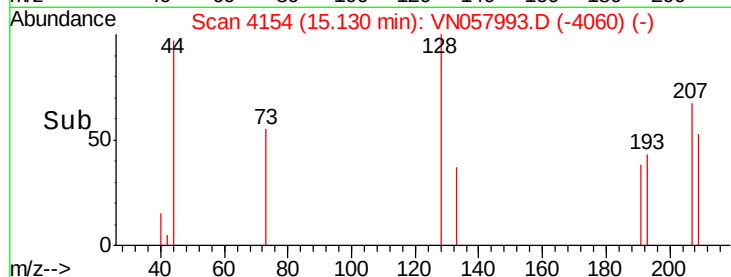
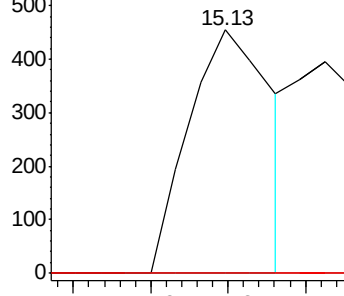
#95
Naphthalene
Concen: Below Cal
RT: 15.13 min Scan# 4154
Delta R.T. 0.00 min
Lab File: VN057993.D
Acq: 13 Sep 2019 00:30

Instrument :
MSVOA_N
ClientSampleId :
T3-2-(0)

Tgt Ion:128 Resp: 336
Ion Ratio Lower Upper
128 100
127 0.0 10.3 15.5#
129 0.0 8.6 12.8#

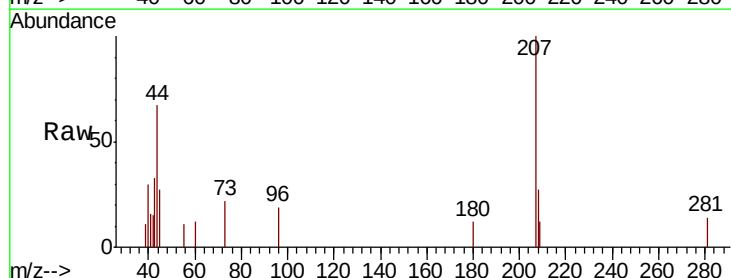


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#96
1,2,3-Trichlorobenzene
Concen: 1.006 ug/l
RT: 15.31 min Scan# 4211
Delta R.T. 0.01 min
Lab File: VN057993.D
Acq: 13 Sep 2019 00:30

Tgt Ion:180 Resp: 34
Ion Ratio Lower Upper
180 100
182 0.0 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

