

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111319\
 Data File : VN059214.D
 Acq On : 13 Nov 2019 17:05
 Operator : JC/SP
 Sample : K5814-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 30557

Quant Time: Nov 22 04:03:14 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N110619W.M
 Quant Title : SW846 8260
 QLast Update : Thu Nov 07 04:00:41 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	411185	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	643581	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	549880	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	187276	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	266176	52.66	ug/l	0.00
Spiked Amount			Recovery	=	105.32%	
35) Dibromofluoromethane	7.57	113	202173	52.61	ug/l	0.00
Spiked Amount			Recovery	=	105.22%	
50) Toluene-d8	10.08	98	780241	51.55	ug/l	0.00
Spiked Amount			Recovery	=	103.10%	
62) 4-Bromofluorobenzene	12.40	95	240444	44.06	ug/l	0.00
Spiked Amount			Recovery	=	88.12%	

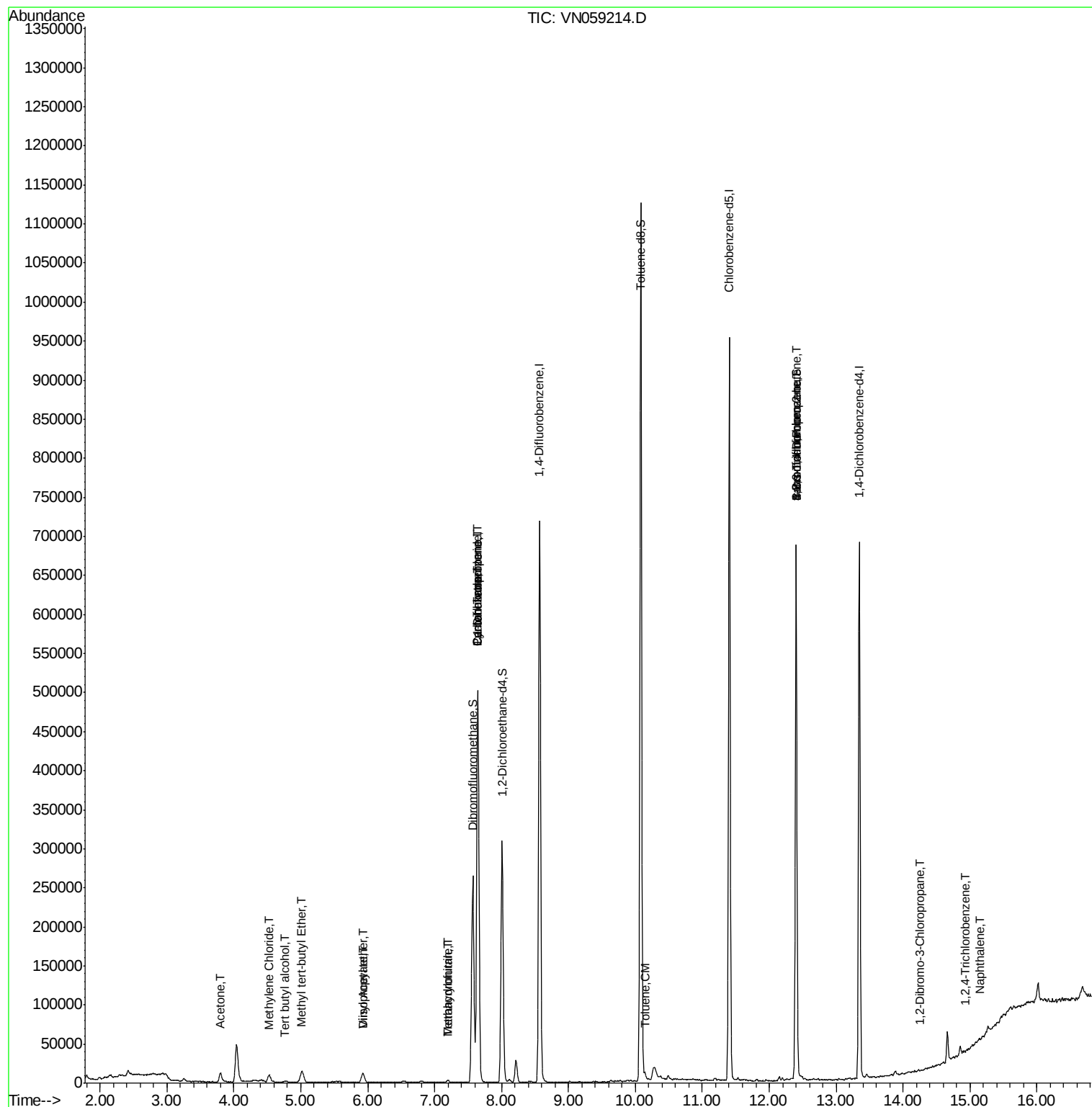
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.75	59	1252	1.300	ug/l #	72
16) Acetone	3.80	43	21357	8.125	ug/l	97
19) Methyl tert-butyl Ether	5.01	73	24826	1.880	ug/l	99
20) Methylene Chloride	4.53	84	7949	1.736	ug/l	98
22) Diisopropyl ether	5.92	45	15747	1.058	ug/l	94
23) Vinyl Acetate	5.93	43	8802	0.763	ug/l #	74
29) Tetrahydrofuran	7.20	42	2111	0.959	ug/l #	69
31) Cyclohexane	7.65	56	8390	1.066	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	32289	5.368	ug/l #	46
38) Carbon Tetrachloride	7.64	117	38616	6.449	ug/l #	16
41) Methacrylonitrile	7.19	41	791	0.272	ug/l #	100
52) Toluene	10.14	92	2885	0.266	ug/l	86
71) Bromoform	12.40	173	1542	0.493	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	120643	28.296	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	120643	74.737	ug/l #	13
92) 1,2-Dibromo-3-Chloropropan	14.26	75	168	0.208	ug/l #	3
93) 1,2,4-Trichlorobenzene	14.91	180	96	3.072	ug/l #	12
95) Naphthalene	15.13	128	1326	3.173	ug/l #	82

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.00 min

Lab File: VN059214.D

Acq: 13 Nov 2019 17:05

Instrument :

MSVOA_N

ClientSampled :

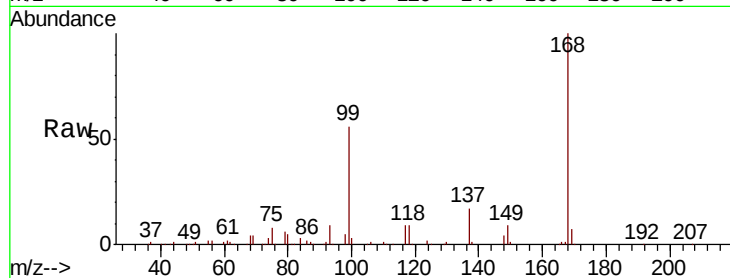
30557

Tot Ion:168 Resp: 411185

Ion Ratio Lower Upper

168 100

99 56.2 45.7 68.5



Abundance Ion 167.90 (167.60 to 168.60): VN059214.D (-1733) (-)

Ion 98.90 (98.60 to 99.60): VN059214.D (-1733) (-)

7.64

150000

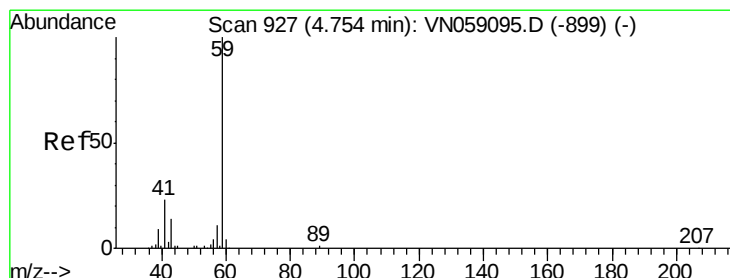
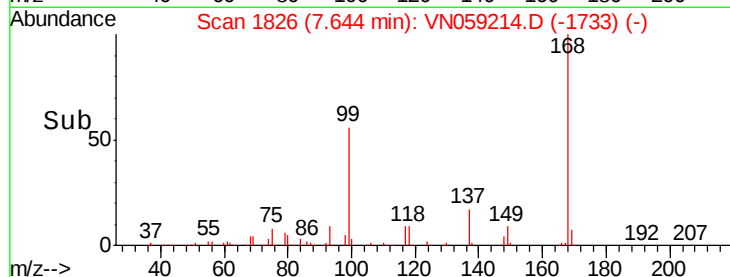
100000

50000

0

7.60 7.70

Time-->



#11

Tert butyl alcohol

Concen: 1.300 ug/l

RT: 4.75 min Scan# 926

Delta R.T. -0.00 min

Lab File: VN059214.D

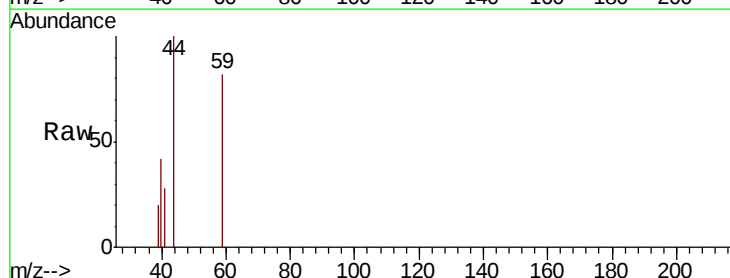
Acq: 13 Nov 2019 17:05

Tgt Ion: 59 Resp: 1252

Ion Ratio Lower Upper

59 100

57 0.0 8.3 12.5#



Abundance Ion 59.00 (58.70 to 59.70): VN059214.D (-834) (-)

Ion 57.00 (56.70 to 57.70): VN059214.D (-834) (-)

4.75

600

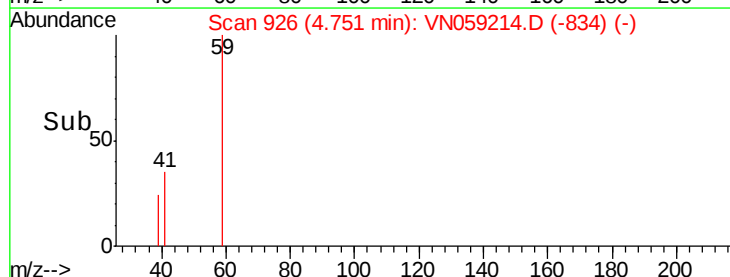
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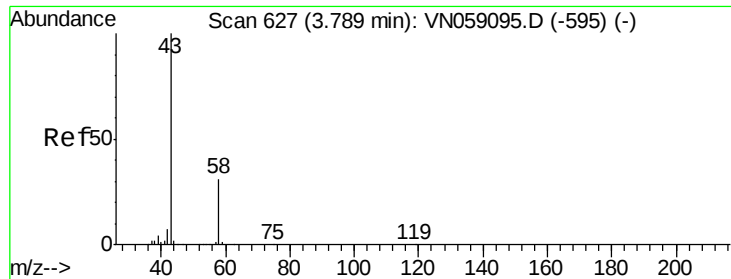
200

0

4.70 4.72 4.74 4.76 4.78

Time-->





#16

Acetone

Concen: 8.125 ug/l

RT: 3.80 min Scan# 630

Delta R.T. 0.01 min

Lab File: VN059214.D

Acq: 13 Nov 2019 17:05

Instrument :

MSVOA_N

ClientSampled :

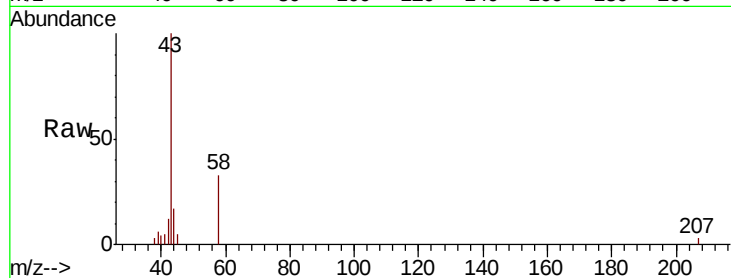
30557

Tot Ion: 43 Resp: 21357

Ion Ratio Lower Upper

43 100

58 33.0 24.9 37.3



Abundance Ion 43.00 (42.70 to 43.70): VN059095.D (-595) (-)

Ion 58.00 (57.70 to 58.70): VN059095.D (-595) (-)

3.80

8000

6000

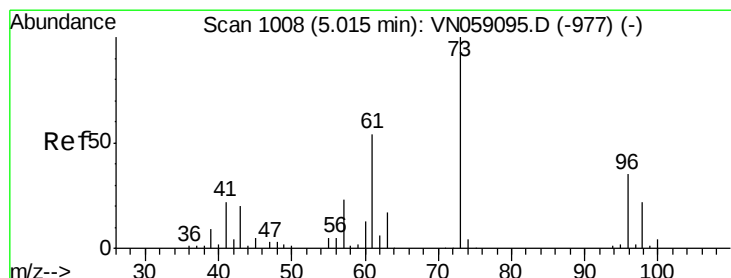
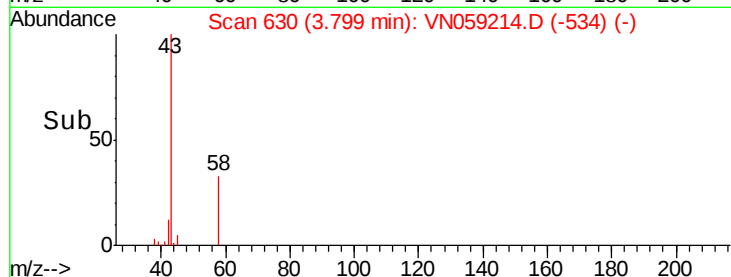
4000

2000

0

Time-->

3.70 3.80 3.90



#19

Methyl tert-butyl Ether

Concen: 1.880 ug/l

RT: 5.01 min Scan# 1008

Delta R.T. -0.00 min

Lab File: VN059214.D

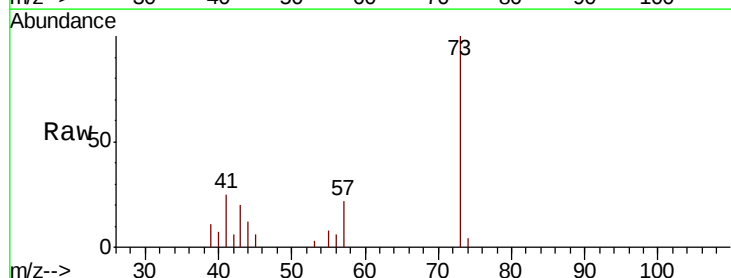
Acq: 13 Nov 2019 17:05

Tgt Ion: 73 Resp: 24826

Ion Ratio Lower Upper

73 100

57 22.4 18.4 27.6



Abundance Ion 73.00 (72.70 to 73.70): VN059095.D (-977) (-)

Ion 57.00 (56.70 to 57.70): VN059095.D (-977) (-)

5.01

8000

6000

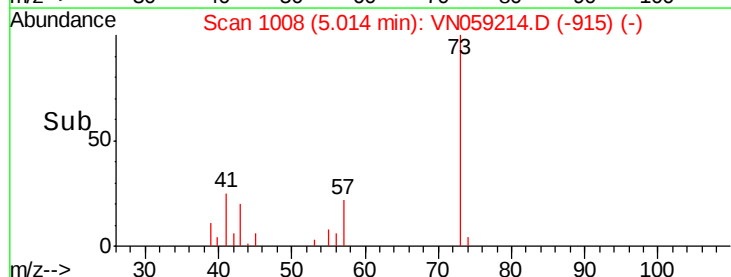
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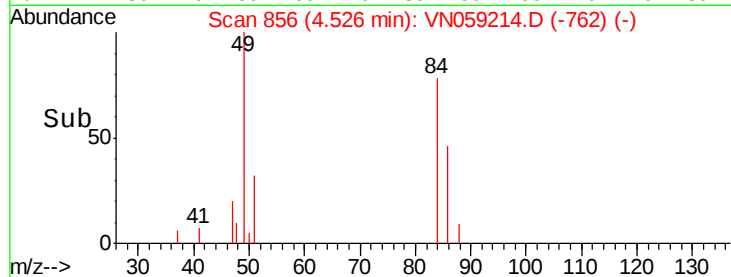
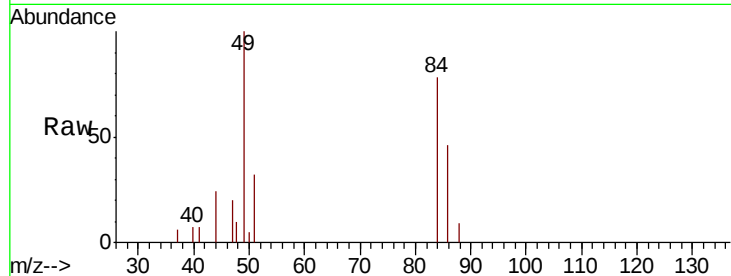
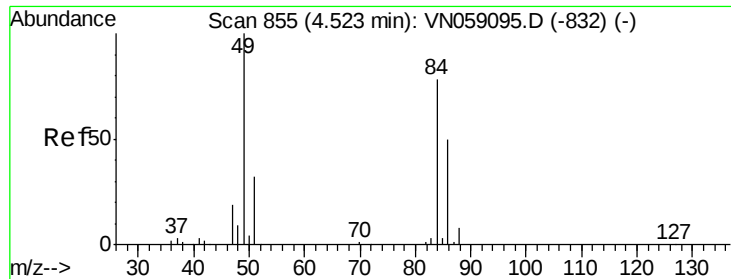
2000

0

Time-->

4.90 5.00 5.10

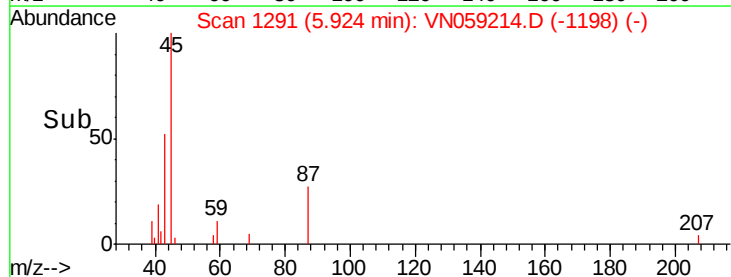
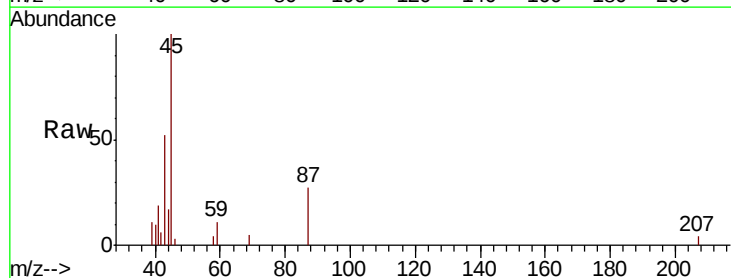
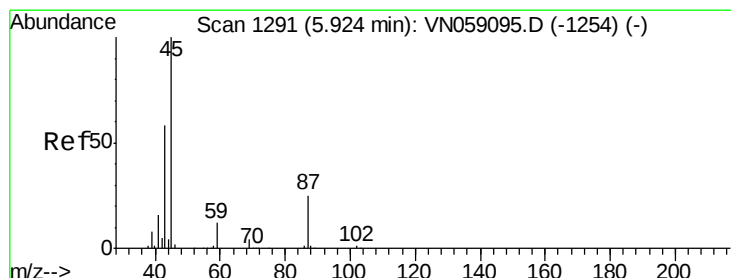
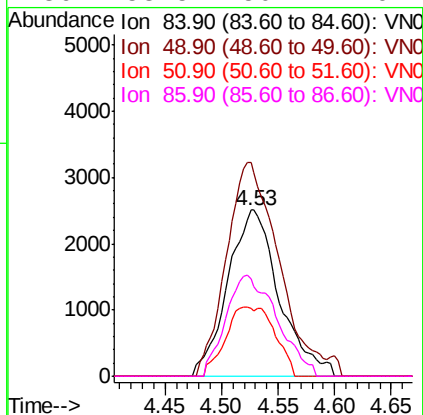




#20
Methvlene Chloride
Concen: 1.736 ug/l
RT: 4.53 min Scan# 856
Delta R.T. 0.00 min
Lab File: VN059214.D
Acq: 13 Nov 2019 17:05

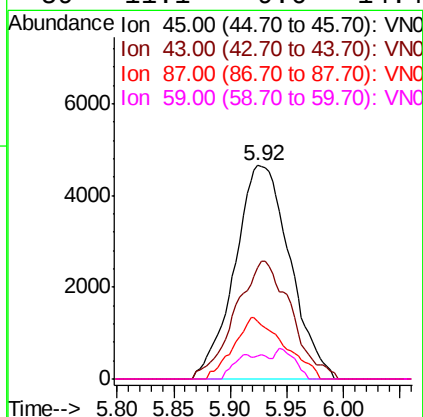
Instrument :
MSVOA_N
ClientSampleId :
30557

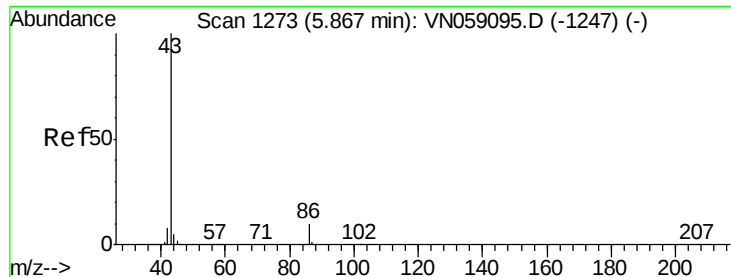
Tot Ion:	84	Resp:	7949
Ion	Ratio	Lower	Upper
84	100		
49	128.2	102.0	153.0
51	40.4	32.2	48.2
86	58.5	50.7	76.1



#22
Diisopropyl ether
Concen: 1.058 ug/l
RT: 5.92 min Scan# 1291
Delta R.T. -0.00 min
Lab File: VN059214.D
Acq: 13 Nov 2019 17:05

Tgt Ion:	45	Resp:	15747
Ion	Ratio	Lower	Upper
45	100		
43	52.3	46.7	70.1
87	26.9	20.5	30.7
59	11.1	9.6	14.4





#23

Vinyl Acetate

Concen: 0.763 ug/l

RT: 5.93 min Scan# 1292

Delta R.T. 0.06 min

Lab File: VN059214.D

Acq: 13 Nov 2019 17:05

Instrument :

MSVOA_N

ClientSampleId :

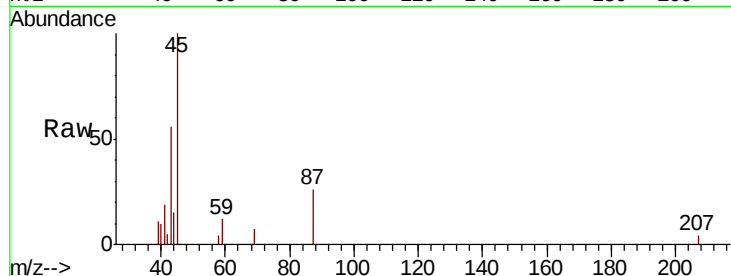
30557

Tot Ion: 43 Resp: 8802

Ion Ratio Lower Upper

43 100

86 0.0 7.7 11.5#



Abundance Ion 43.00 (42.70 to 43.70): VN059095.D (-1247) (-)

Ion 86.00 (85.70 to 86.70): VN059095.D (-1247) (-)

5.93

2500

2000

1500

1000

500

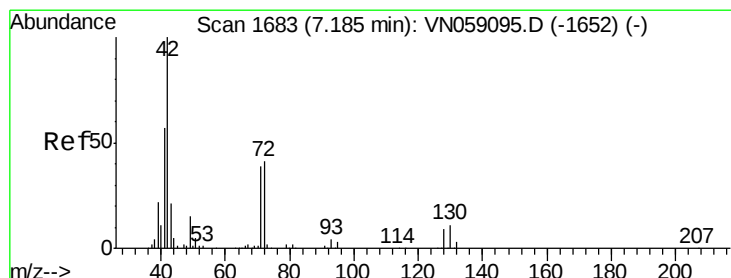
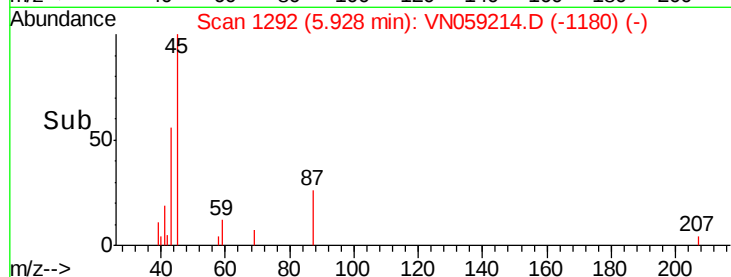
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Time-->

5.80

5.90

6.00



#29

Tetrahydrofuran

Concen: 0.959 ug/l

RT: 7.20 min Scan# 1689

Delta R.T. 0.02 min

Lab File: VN059214.D

Acq: 13 Nov 2019 17:05

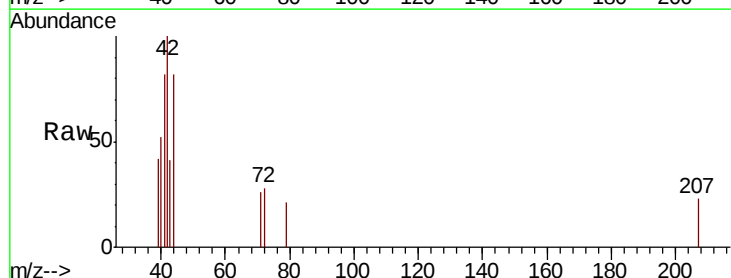
Tgt Ion: 42 Resp: 2111

Ion Ratio Lower Upper

42 100

72 28.6 33.1 49.7#

71 13.1 30.9 46.3#



Abundance Ion 42.00 (41.70 to 42.70): VN059095.D (-1652) (-)

Ion 72.00 (71.70 to 72.70): VN059095.D (-1652) (-)

Ion 71.00 (70.70 to 71.70): VN059095.D (-1652) (-)

7.20

1000

800

600

400

200

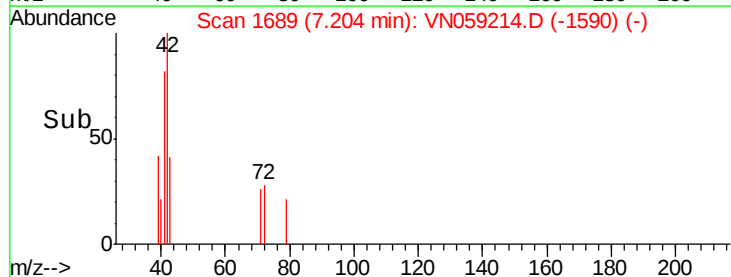
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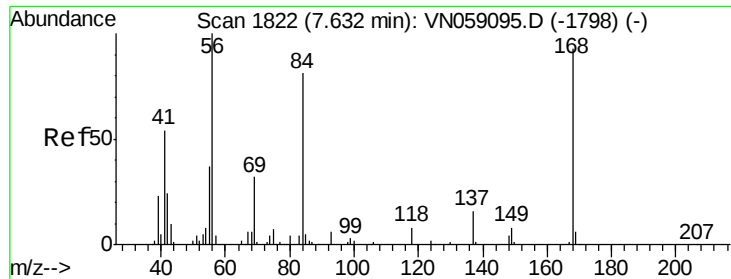
Time-->

7.15

7.20

7.25





#31

Cyclohexane

Concen: 1.066 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. 0.02 min

Lab File: VN059214.D

Acq: 13 Nov 2019 17:05

Instrument :

MSVOA_N

ClientSampled :

30557

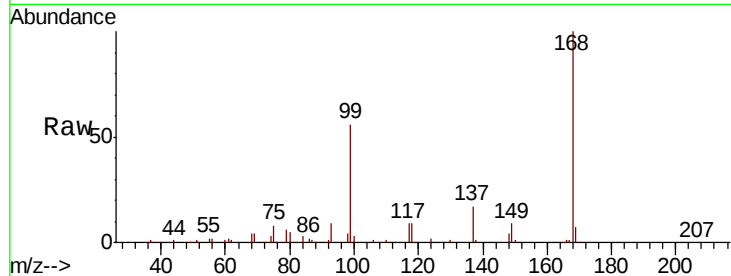
Tot Ion: 56 Resp: 8390

Ion Ratio Lower Upper

56 100

69 183.9 25.8 38.8#

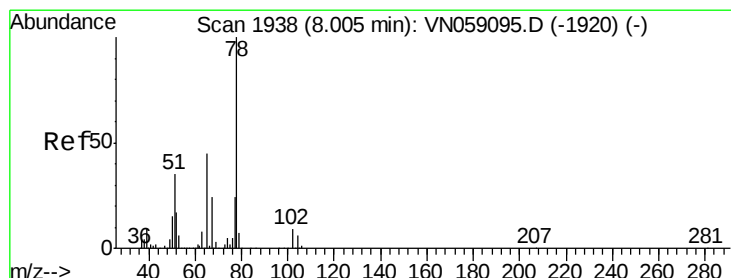
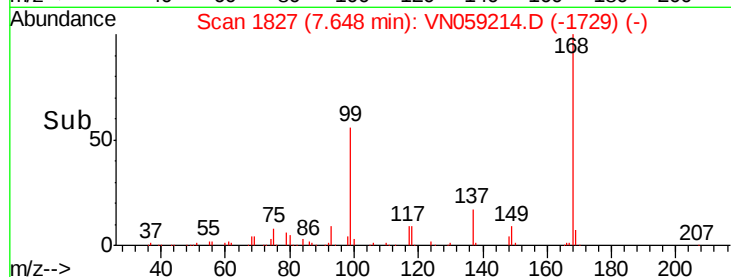
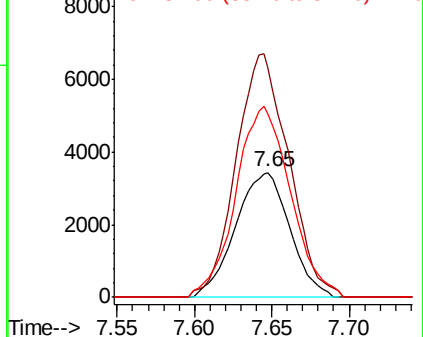
84 146.7 65.0 97.4#



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: 52.661 ug/l

RT: 8.01 min Scan# 1939

Delta R.T. 0.00 min

Lab File: VN059214.D

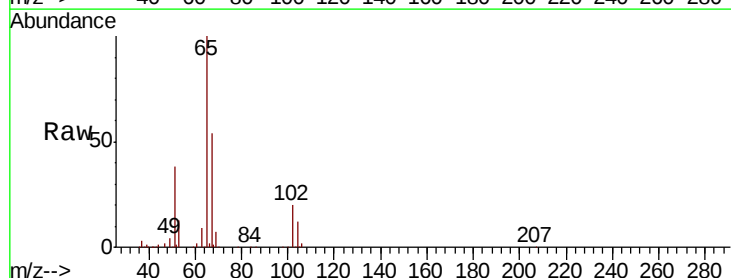
Acq: 13 Nov 2019 17:05

Tgt Ion: 65 Resp: 266176

Ion Ratio Lower Upper

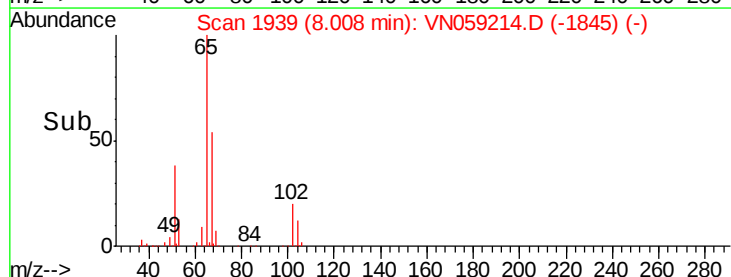
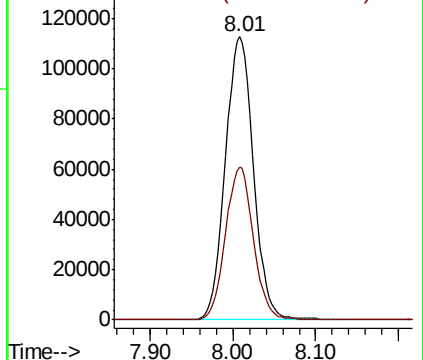
65 100

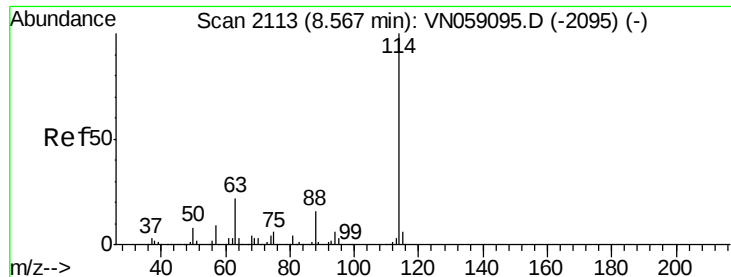
67 53.5 0.0 107.4



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

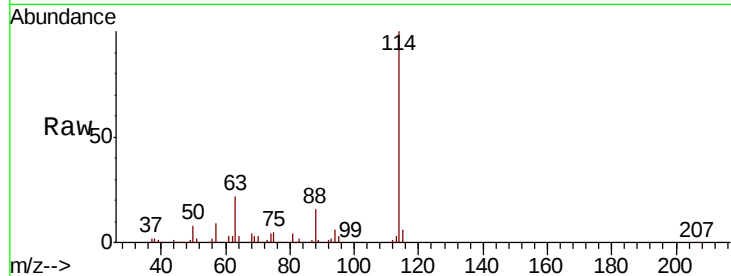




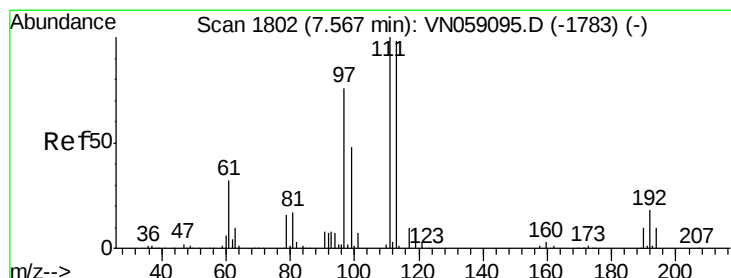
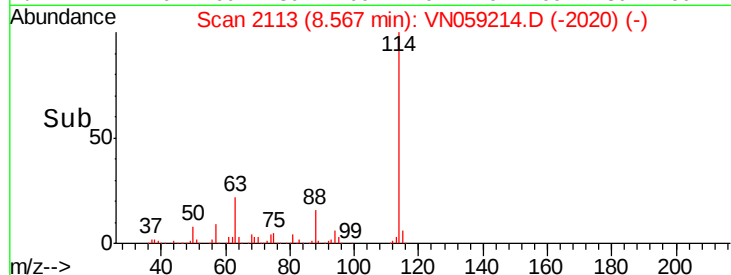
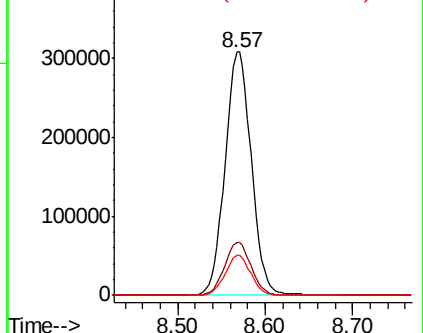
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.57 min Scan# 2113
Delta R.T. -0.00 min
Lab File: VN059214.D
Acq: 13 Nov 2019 17:05

Instrument :
MSVOA_N
ClientSampleId :
30557

Tot Ion	Ratio	Lower	Upper
114	100		
63	21.7	0.0	43.4
88	16.4	0.0	32.2

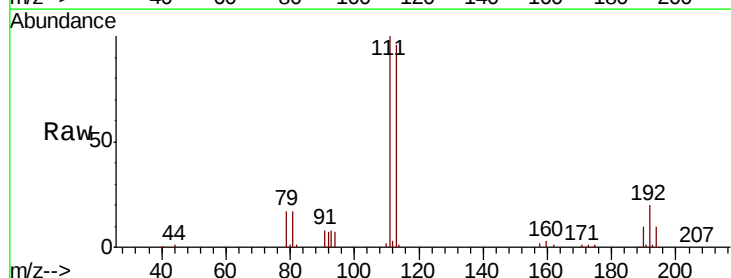


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

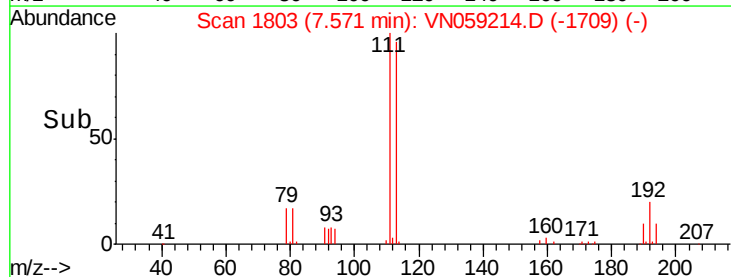
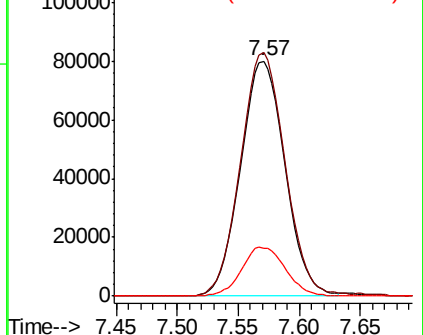


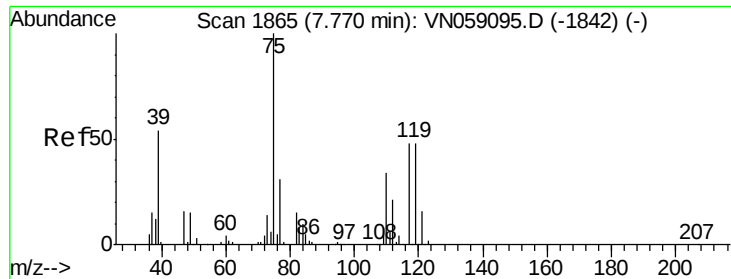
#35
Dibromofluoromethane
Concen: 52.611 ug/l
RT: 7.57 min Scan# 1803
Delta R.T. 0.00 min
Lab File: VN059214.D
Acq: 13 Nov 2019 17:05

Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.7	82.8	124.2
192	20.6	16.1	24.1



Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V

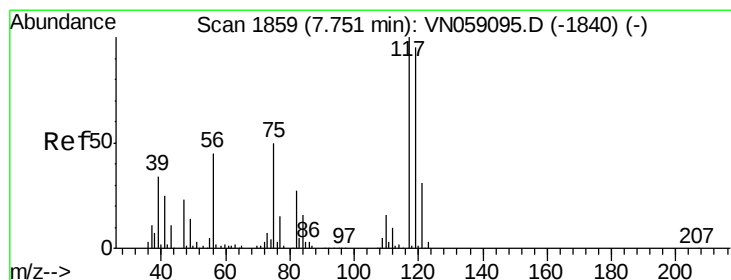
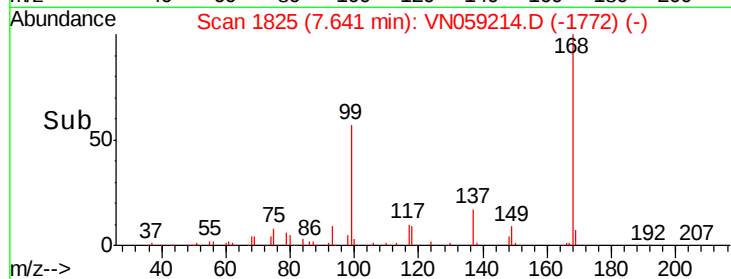
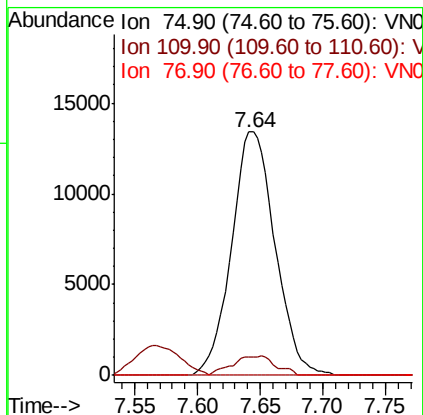
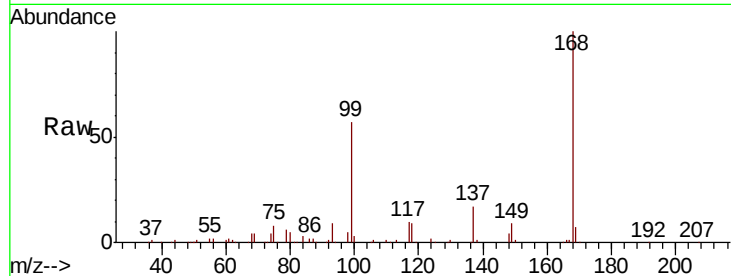




#36
 1,1-Dichloropropene
 Concen: 5.368 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.13 min
 Lab File: VN059214.D
 Acq: 13 Nov 2019 17:05

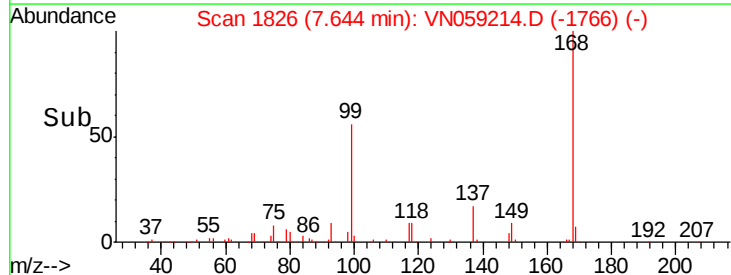
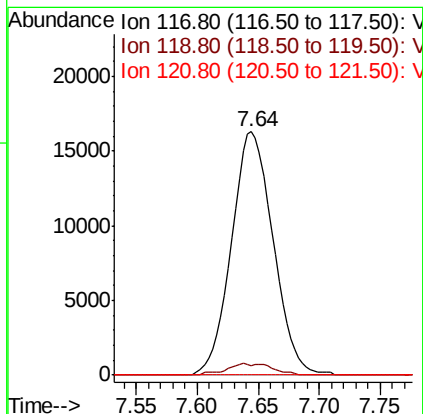
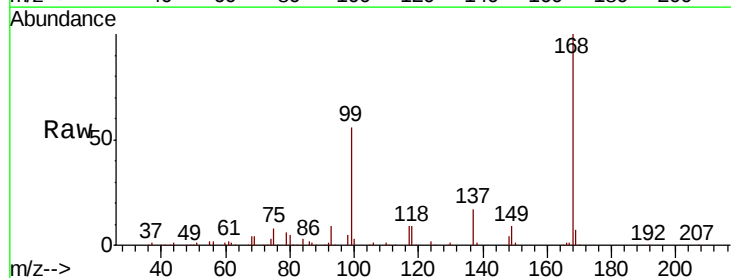
Instrument :
 MSVOA_N
 ClientSampled :
 30557

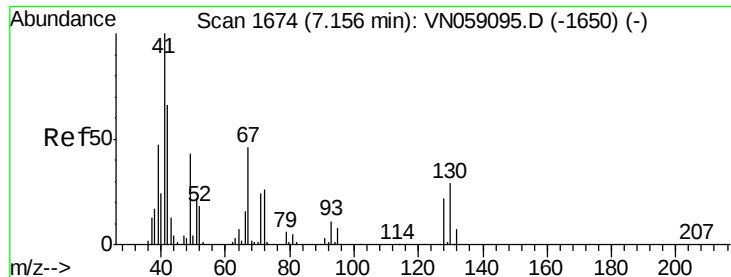
Tot Ion	75	Resp	32289
Ion Ratio	Lower	Upper	
75	100		
110	4.2	17.1	51.2#
77	0.0	24.8	37.2#



#38
 Carbon Tetrachloride
 Concen: 6.449 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. -0.11 min
 Lab File: VN059214.D
 Acq: 13 Nov 2019 17:05

Tgt Ion	117	Resp	38616
Ion Ratio	Lower	Upper	
117	100		
119	4.1	75.6	113.4#
121	0.0	24.6	36.8#

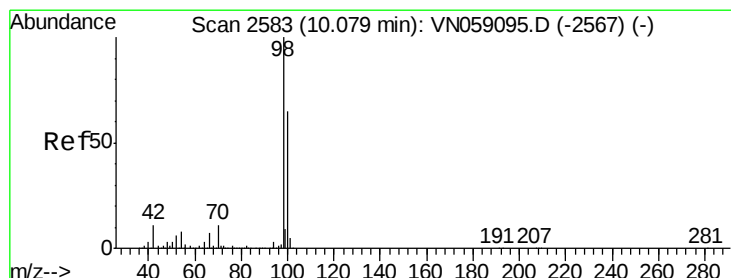
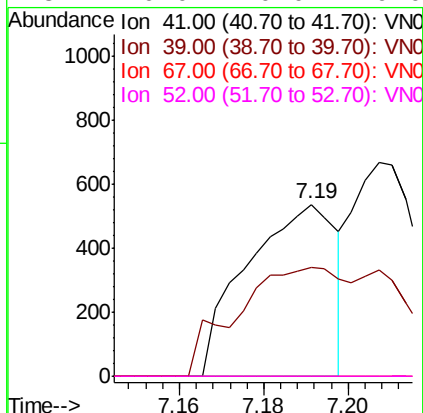
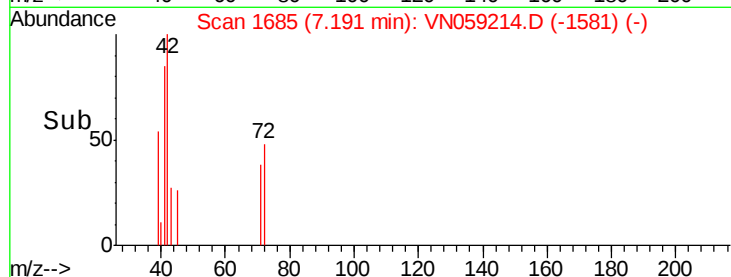
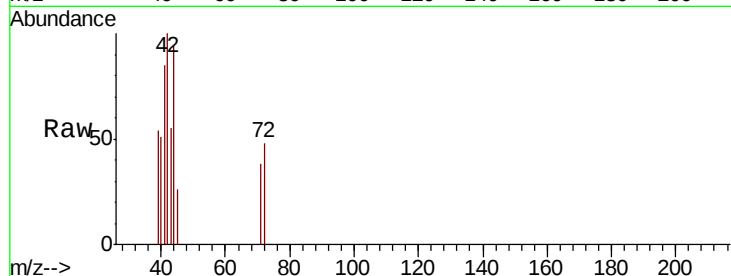




#41
Methacrylonitrile
Concen: 0.272 ug/l
RT: 7.19 min Scan# 1685
Delta R.T. 0.04 min
Lab File: VN059214.D
Acq: 13 Nov 2019 17:05

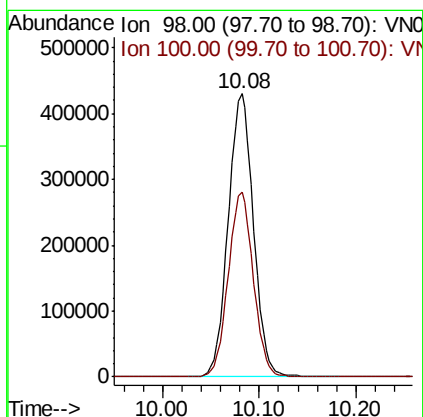
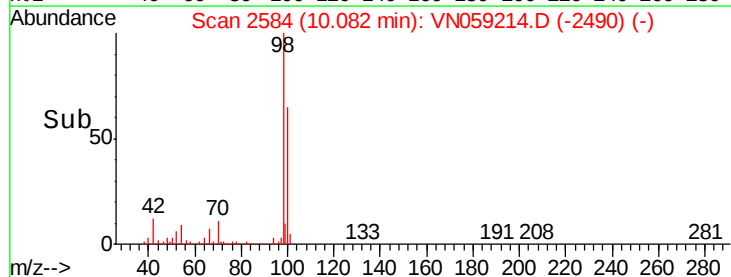
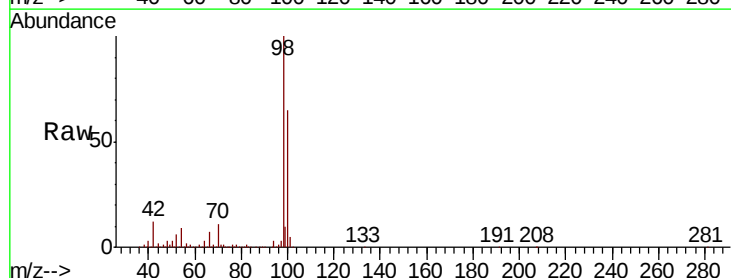
Instrument :
MSVOA_N
ClientSampled :
30557

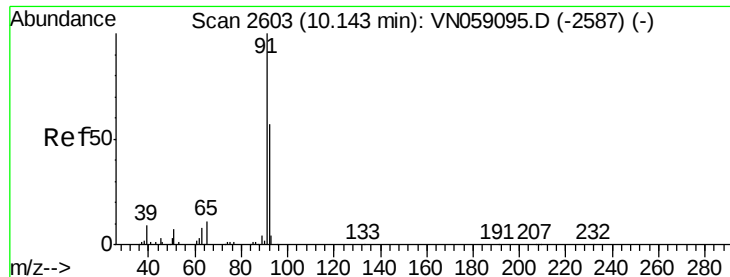
Tot Ion:	41	Resp:	791
Ion	Ratio	Lower	Upper
41	100		
39	78.0	0.0	0.0#
67	0.0	0.0	0.0
52	0.0	0.0	0.0



#50
Toluene-d8
Concen: 51.547 ug/l
RT: 10.08 min Scan# 2584
Delta R.T. 0.00 min
Lab File: VN059214.D
Acq: 13 Nov 2019 17:05

Tgt Ion:	98	Resp:	780241
Ion	Ratio	Lower	Upper
98	100		
100	64.8	52.2	78.2





#52

Toluene

Concen: 0.266 ug/l

RT: 10.14 min Scan# 2603

Delta R.T. -0.00 min

Lab File: VN059214.D

Acq: 13 Nov 2019 17:05

Instrument :

MSVOA_N

ClientSampled :

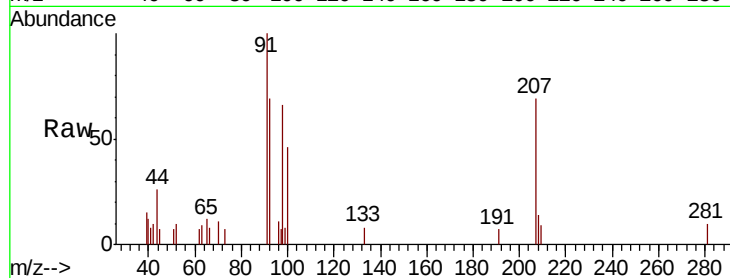
30557

Tot Ion: 92 Resp: 2885

Ion Ratio Lower Upper

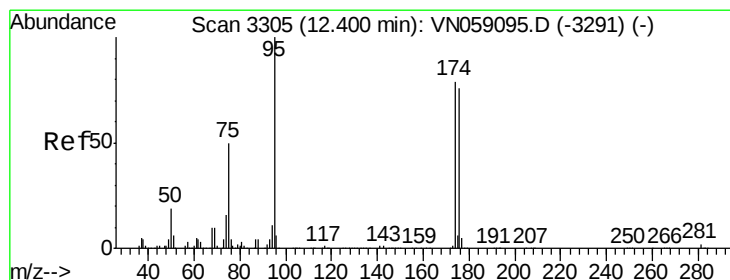
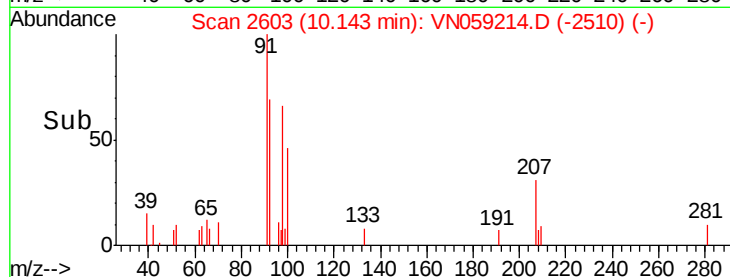
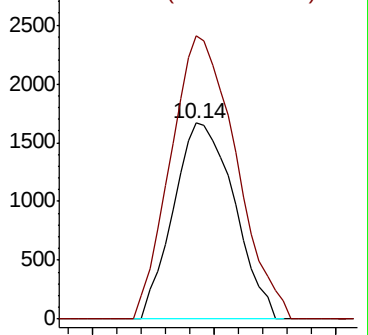
92 100

91 154.9 139.5 209.3



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0



#62

4-Bromofluorobenzene

Concen: 44.056 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN059214.D

Acq: 13 Nov 2019 17:05

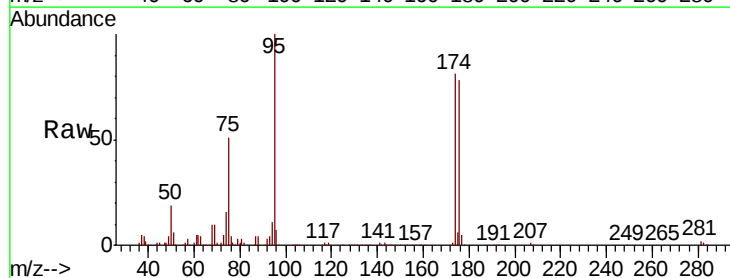
Tgt Ion: 95 Resp: 240444

Ion Ratio Lower Upper

95 100

174 79.3 0.0 158.2

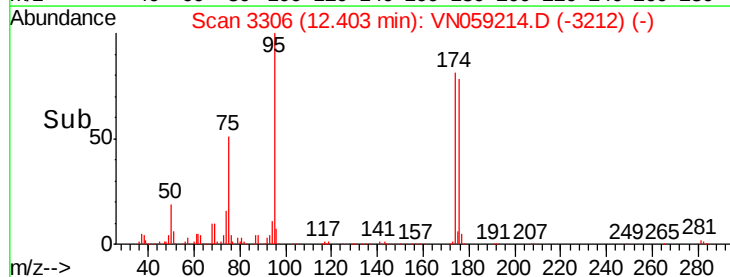
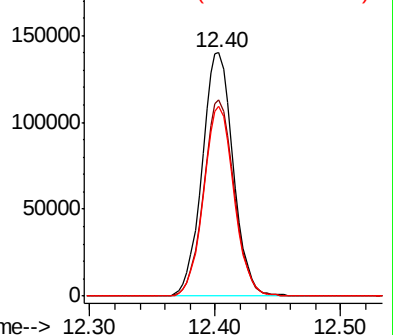
176 76.7 0.0 151.8

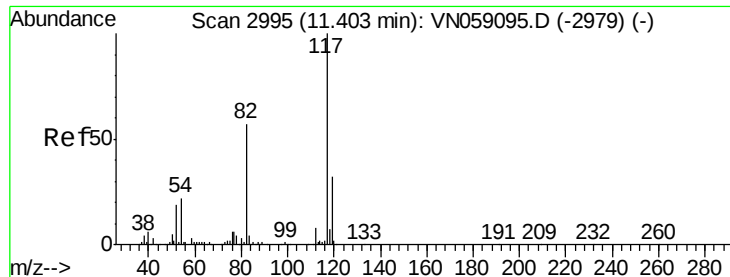


Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2995

Delta R.T. -0.00 min

Lab File: VN059214.D

Acq: 13 Nov 2019 17:05

Instrument :

MSVOA_N

ClientSampled :

30557

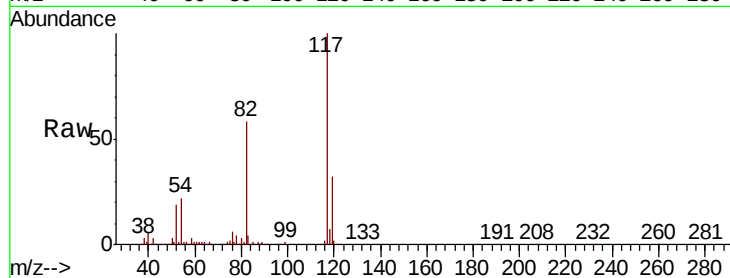
Tot Ion:117 Resp: 549880

Ion Ratio Lower Upper

117 100

82 57.7 45.8 68.8

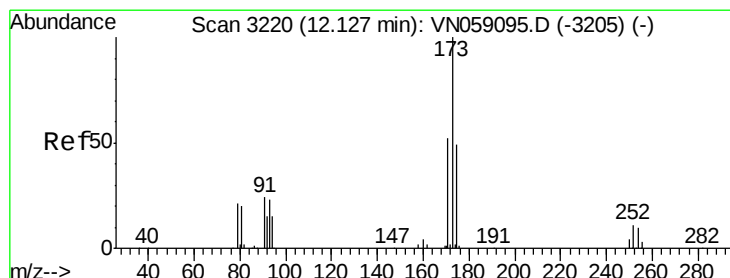
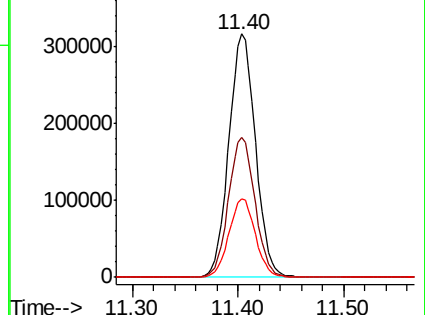
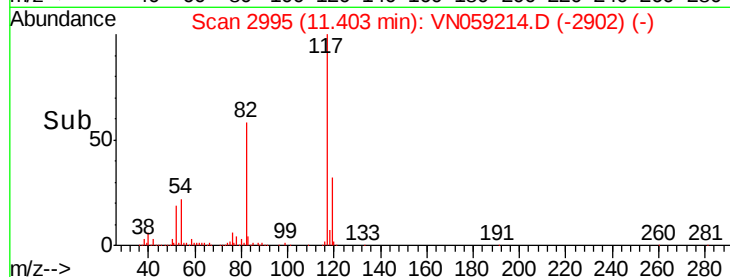
119 32.1 25.8 38.6



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



#71

Bromoform

Concen: 0.493 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN059214.D

Acq: 13 Nov 2019 17:05

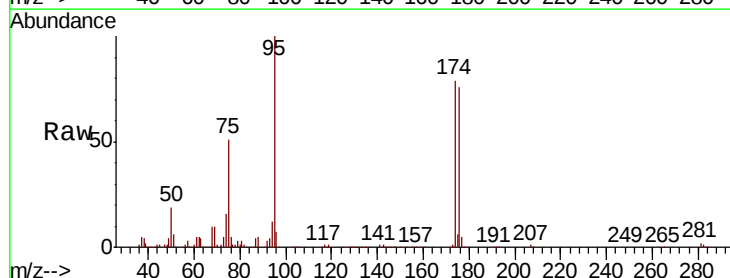
Tgt Ion:173 Resp: 1542

Ion Ratio Lower Upper

173 100

175 758.4 24.2 72.6#

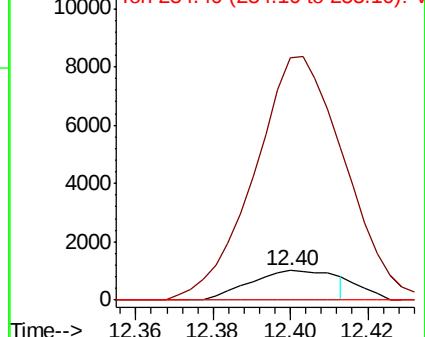
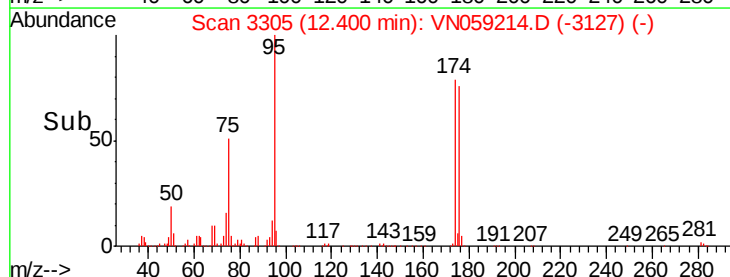
254 0.0 0.1 0.1#

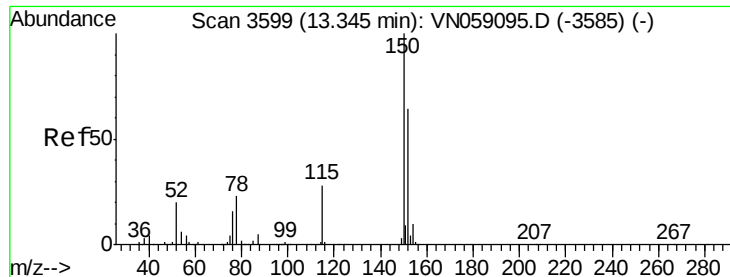


Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



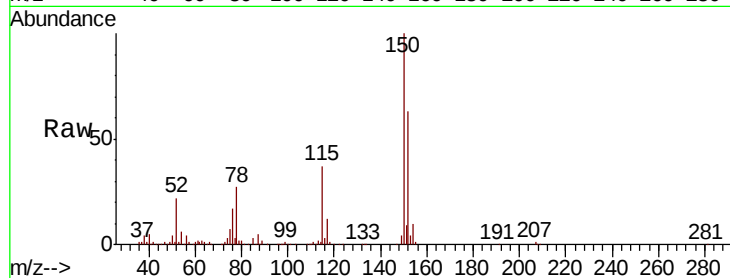


#72

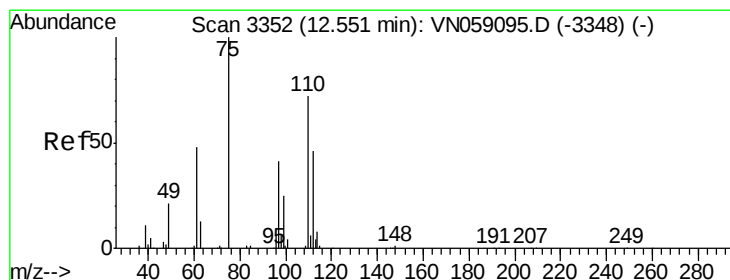
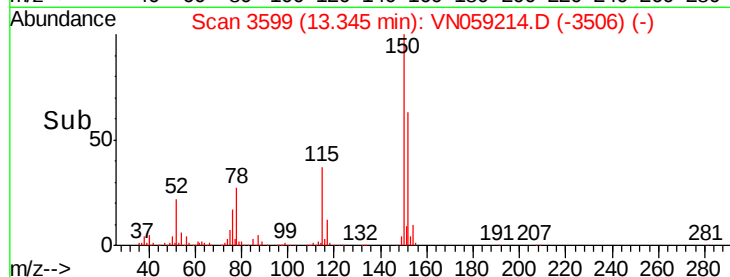
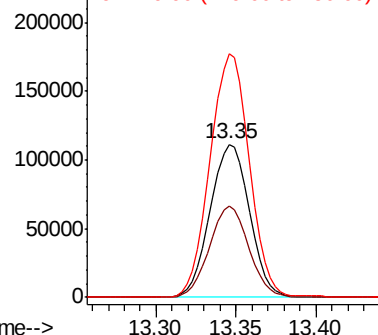
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. -0.00 min
Lab File: VN059214.D
Acq: 13 Nov 2019 17:05

Instrument :
MSVOA_N
ClientSampleId :
30557

Tot Ion	Ratio	Lower	Upper
152	100		
115	59.2	29.4	88.2
150	159.5	0.0	345.8



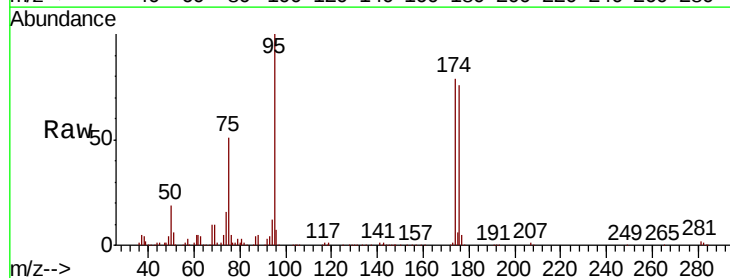
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



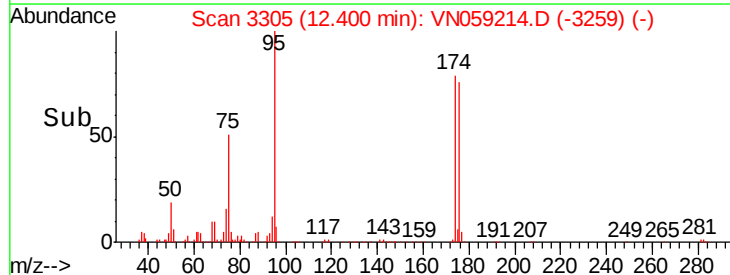
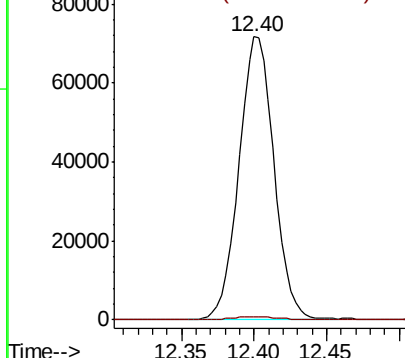
#76

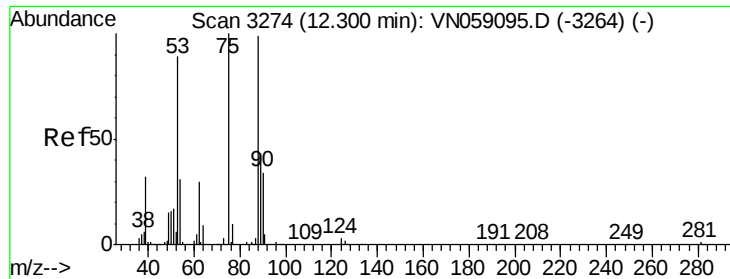
1,2,3-Trichloropropane
Concen: 28.296 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.15 min
Lab File: VN059214.D
Acq: 13 Nov 2019 17:05

Tgt Ion	Ratio	Lower	Upper
75	100		
77	1.7	0.0	0.0#



Abundance Ion 74.90 (74.60 to 75.60): V
Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 74.737 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN059214.D

Acq: 13 Nov 2019 17:05

Instrument :

MSVOA_N

ClientSampleId :

30557

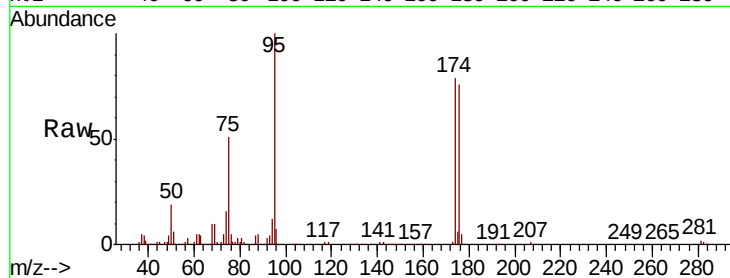
Tot Ion: 75 Resp: 120643

Ion Ratio Lower Upper

75 100

53 0.0 72.2 108.2#

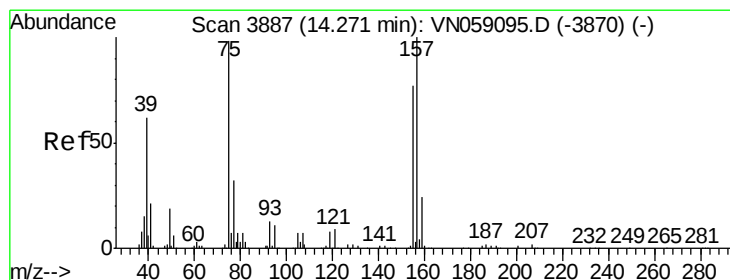
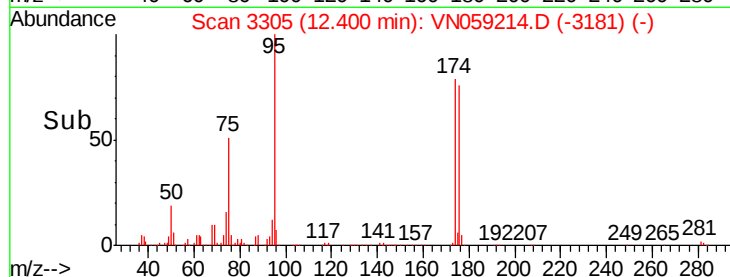
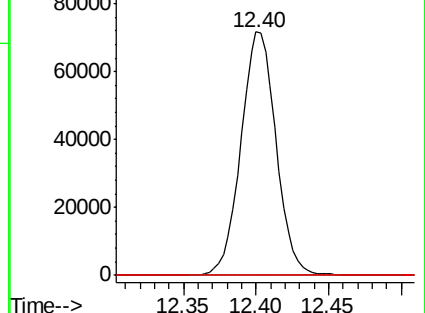
89 0.0 35.8 53.8#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.208 ug/l

RT: 14.26 min Scan# 3882

Delta R.T. -0.02 min

Lab File: VN059214.D

Acq: 13 Nov 2019 17:05

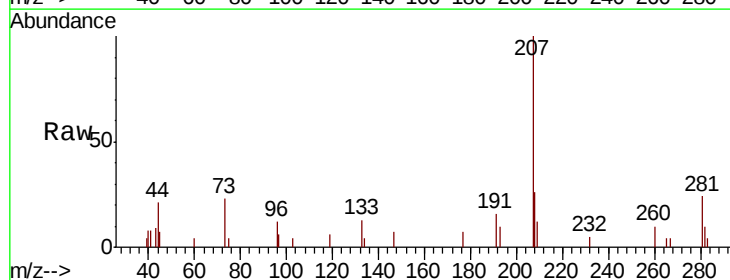
Tgt Ion: 75 Resp: 168

Ion Ratio Lower Upper

75 100

155 0.0 40.2 120.6#

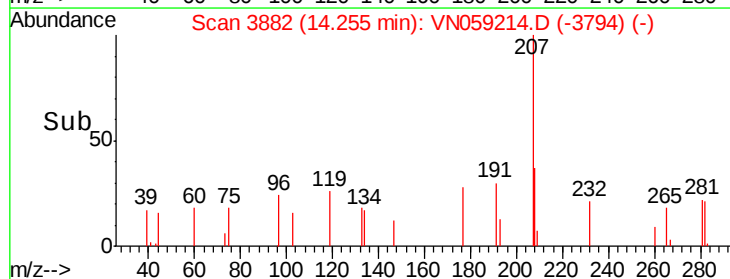
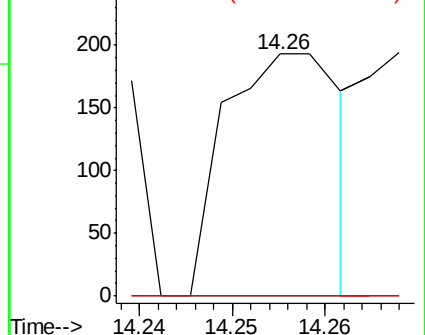
157 0.0 51.8 155.5#

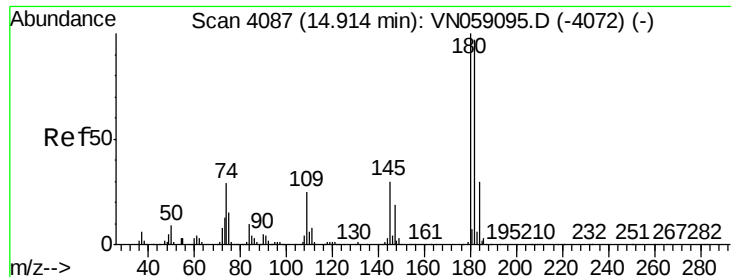


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

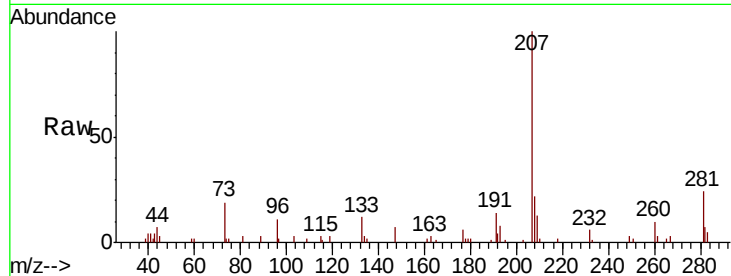




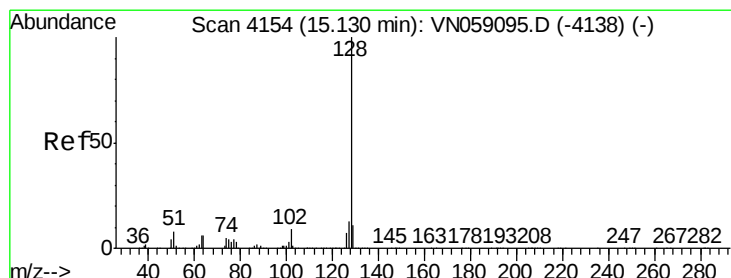
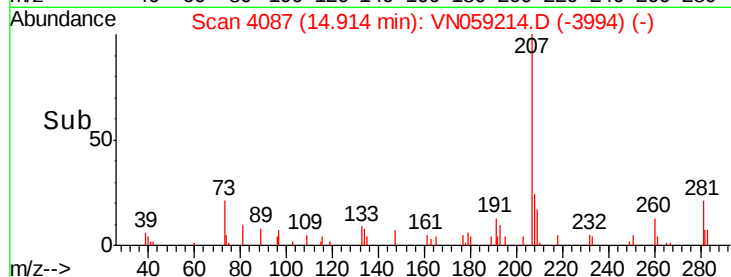
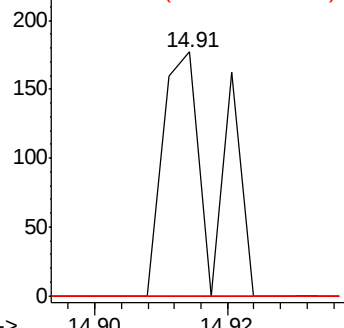
#93
 1,2,4-Trichlorobenzene
 Concen: 3.072 ug/l
 RT: 14.91 min Scan# 4087
 Delta R.T. 0.00 min
 Lab File: VN059214.D
 Acq: 13 Nov 2019 17:05

Instrument :
 MSVOA_N
 ClientSampleId :
 30557

Tot Ion	Ratio	Lower	Upper
180	100		
182	0.0	48.1	144.3#
145	0.0	15.1	45.3#

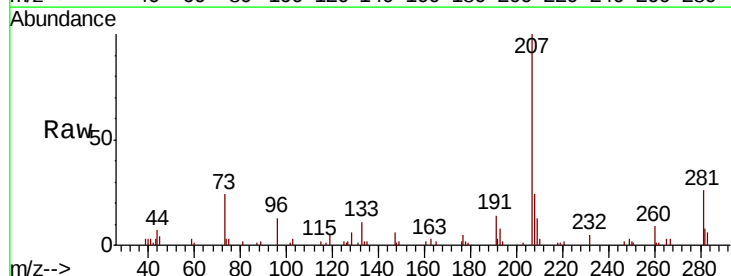


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V



#95
 Naphthalene
 Concen: 3.173 ug/l
 RT: 15.13 min Scan# 4155
 Delta R.T. 0.00 min
 Lab File: VN059214.D
 Acq: 13 Nov 2019 17:05

Tgt Ion	Ratio	Lower	Upper
128	100		
127	9.2	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

