

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN121119\
 Data File : VN059560.D
 Acq On : 11 Dec 2019 14:40
 Operator : JC/SP
 Sample : K5664-04 50X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 02-03-08-09-10-11-12-COMP

Quant Time: Dec 12 00:51:59 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N120919W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 10 01:09:52 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	246136	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	396596	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	353984	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	139557	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.00	65	175771	51.10	ug/l	0.00
Spiked Amount			Recovery	=	102.20%	
35) Dibromofluoromethane	7.57	113	125290	52.94	ug/l	0.00
Spiked Amount			Recovery	=	105.88%	
50) Toluene-d8	10.08	98	486612	50.36	ug/l	0.00
Spiked Amount			Recovery	=	100.72%	
62) 4-Bromofluorobenzene	12.40	95	161103	45.04	ug/l	0.00
Spiked Amount			Recovery	=	90.08%	

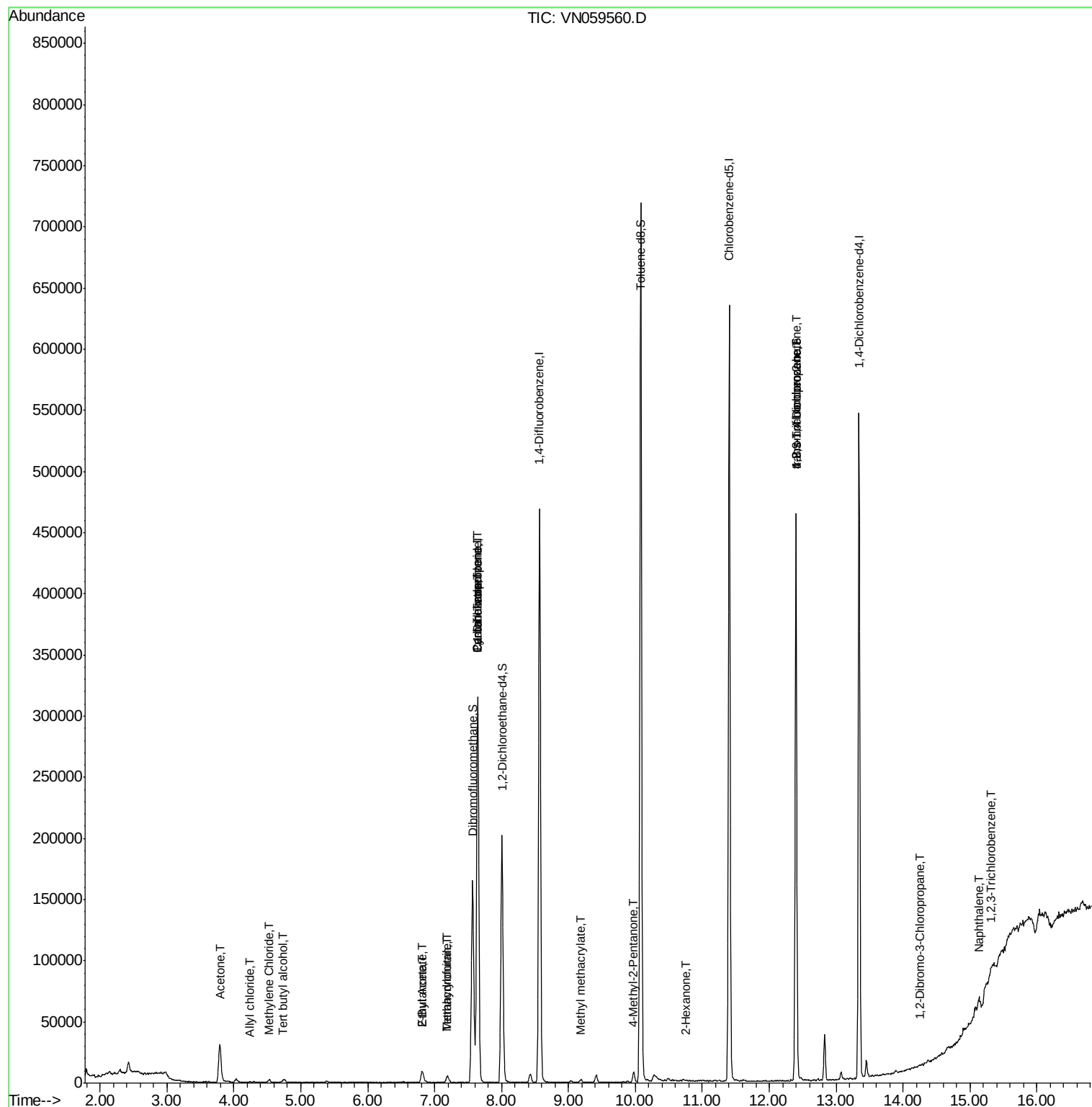
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.74	59	1679	2.950	ug/l #	92
14) Allyl chloride	4.25	41	1216	0.247	ug/l #	23
16) Acetone	3.79	43	53413	33.238	ug/l	100
17) Carbon Disulfide	4.03	76	2512	Below Cal	#	74
20) Methylene Chloride	4.53	84	1609	0.283	ug/l #	82
25) 2-Butanone	6.81	43	19256	8.902	ug/l	93
29) Tetrahydrofuran	7.19	42	4753	3.159	ug/l	93
31) Cyclohexane	7.65	56	5923	1.143	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	20563	5.054	ug/l #	45
37) Ethyl Acetate	6.81	43	19256	5.471	ug/l #	69
38) Carbon Tetrachloride	7.64	117	24552	6.122	ug/l #	16
41) Methacrylonitrile	7.19	41	2991	1.513	ug/l #	100
48) Methyl methacrylate	9.19	41	1090	0.355	ug/l #	65
51) 4-Methyl-2-Pentanone	9.97	43	6606	0.672	ug/l	90
59) 2-Hexanone	10.74	43	60	2.232	ug/l	95
76) 1,2,3-Trichloropropane	12.40	75	84474	23.670	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	84474	63.684	ug/l #	16
92) 1,2-Dibromo-3-Chloropropan	14.26	75	167	2.277	ug/l #	3
95) Naphthalene	15.13	128	1949	0.214	ug/l #	78
96) 1,2,3-Trichlorobenzene	15.30	180	680	2.623	ug/l #	34

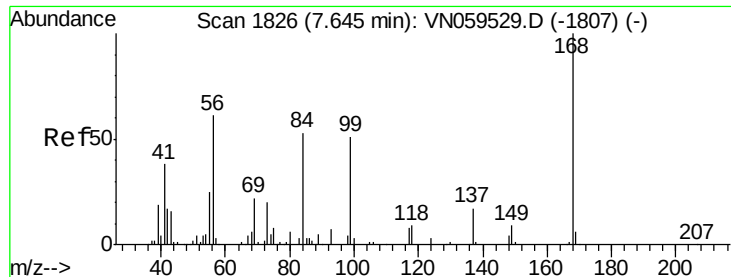
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N120919W.M
Quant Title : SW846 8260
QLast Update : Tue Dec 10 01:09:52 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.00 min

Lab File: VN059560.D

Acq: 11 Dec 2019 14:40

Instrument :

MSVOA_N

ClientSampleId :

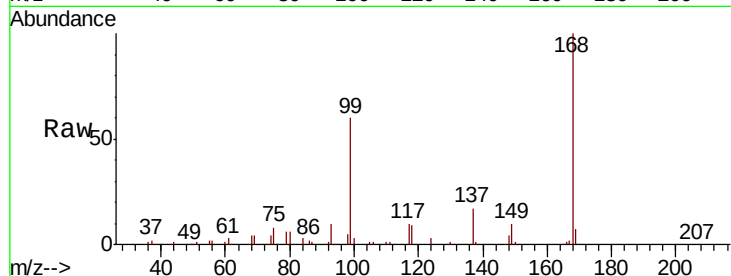
02-03-08-09-10-11-12-COMP

Tot Ion:168 Resp: 246136

Ion Ratio Lower Upper

168 100

99 59.9 46.6 70.0



Abundance Ion 167.90 (167.60 to 168.60): VN059529.D (-1807) (-)

Ion 98.90 (98.60 to 99.60): VN059529.D (-1807) (-)

7.64

120000

100000

80000

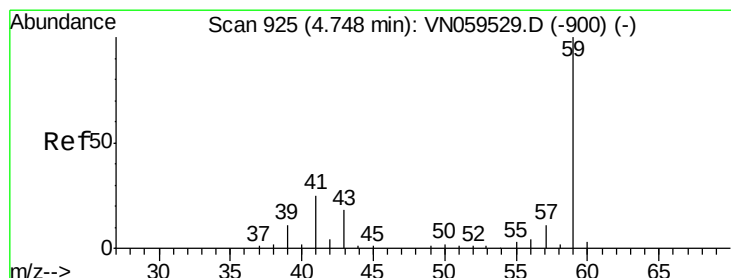
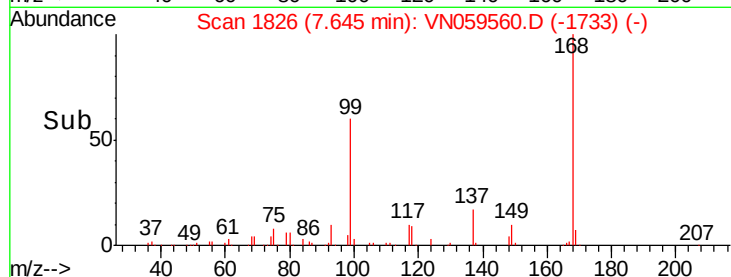
60000

40000

20000

0

Time-->



#11

Tert butyl alcohol

Concen: 2.950 ug/l

RT: 4.74 min Scan# 922

Delta R.T. -0.01 min

Lab File: VN059560.D

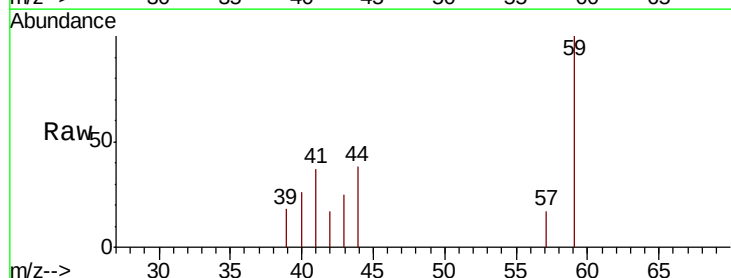
Acq: 11 Dec 2019 14:40

Tgt Ion: 59 Resp: 1679

Ion Ratio Lower Upper

59 100

57 7.7 8.6 13.0#



Abundance Ion 59.00 (58.70 to 59.70): VN059529.D (-900) (-)

Ion 57.00 (56.70 to 57.70): VN059529.D (-900) (-)

4.74

1200

1000

800

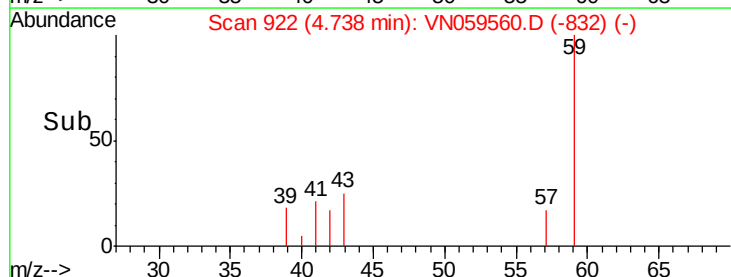
600

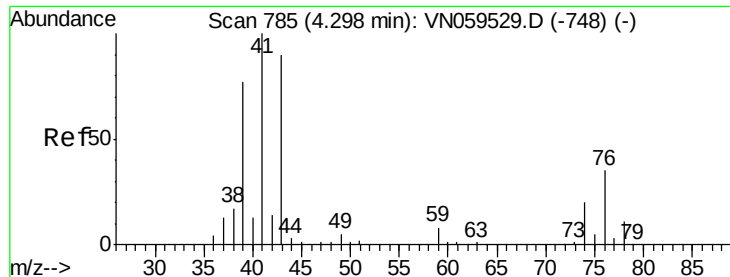
400

200

0

Time-->

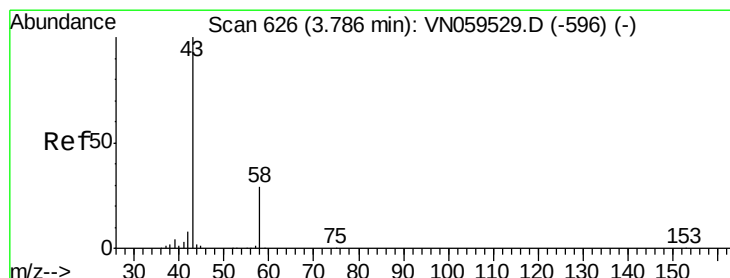
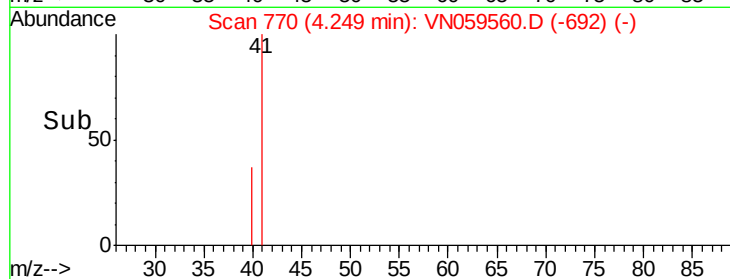
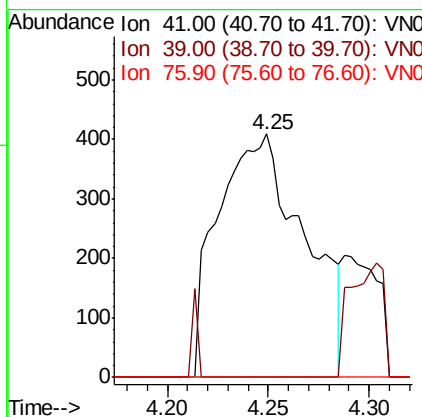
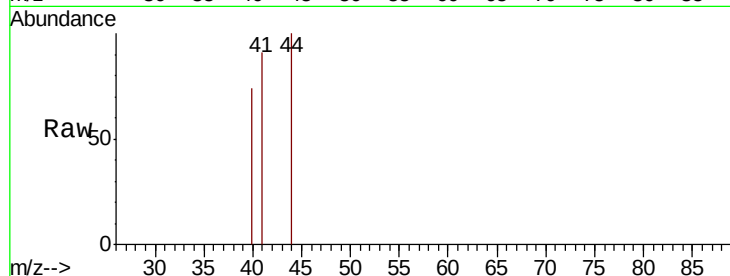




#14
 Allvl chloride
 Concen: 0.247 ug/l
 RT: 4.25 min Scan# 770
 Delta R.T. -0.05 min
 Lab File: VN059560.D
 Acq: 11 Dec 2019 14:40

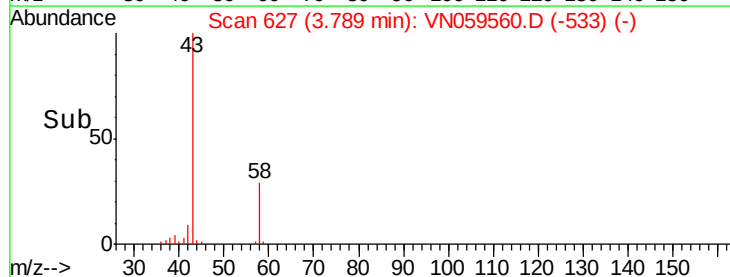
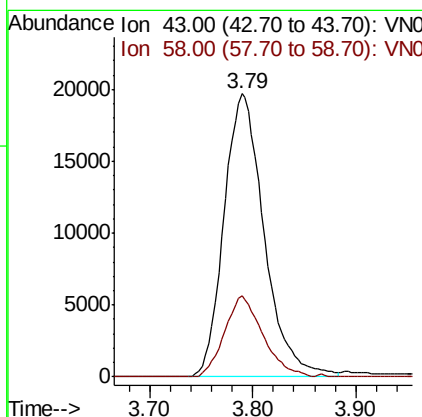
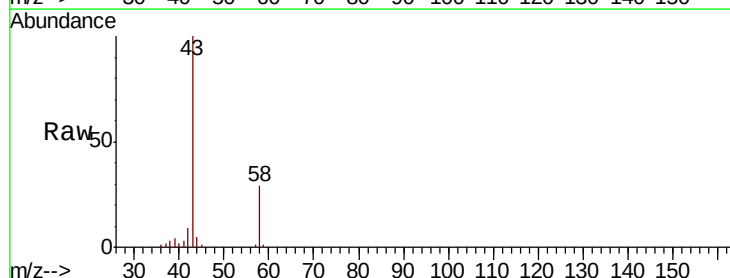
Instrument :
 MSVOA_N
 ClientSampleId :
 02-03-08-09-10-11-12-COMP

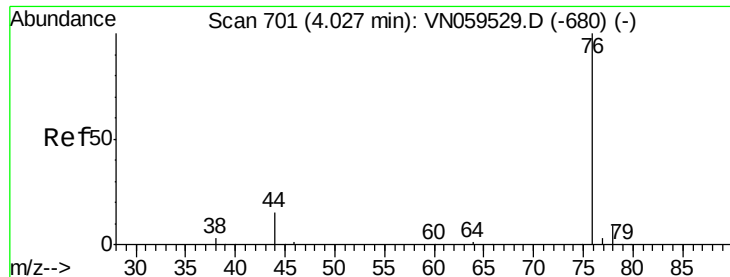
Tot Ion: 41 Resp: 1216
 Ion Ratio Lower Upper
 41 100
 39 0.0 56.7 85.1#
 76 0.0 25.5 38.3#



#16
 Acetone
 Concen: 33.238 ug/l
 RT: 3.79 min Scan# 627
 Delta R.T. 0.00 min
 Lab File: VN059560.D
 Acq: 11 Dec 2019 14:40

Tgt Ion: 43 Resp: 53413
 Ion Ratio Lower Upper
 43 100
 58 28.9 23.0 34.4





#17

Carbon Disulfide

Concen: Below Cal

RT: 4.03 min Scan# 701

Delta R.T. 0.00 min

Lab File: VN059560.D

Acq: 11 Dec 2019 14:40

Instrument :

MSVOA_N

ClientSampleId :

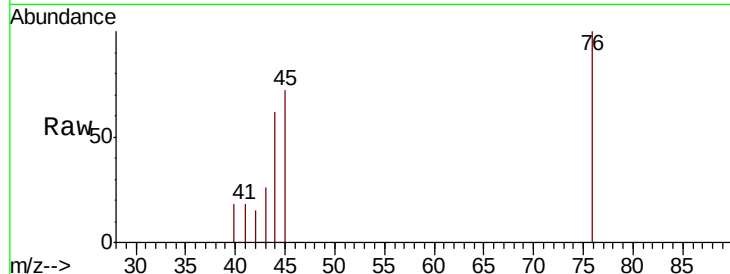
02-03-08-09-10-11-12-COMP

Tot Ion: 76 Resp: 2512

Ion Ratio Lower Upper

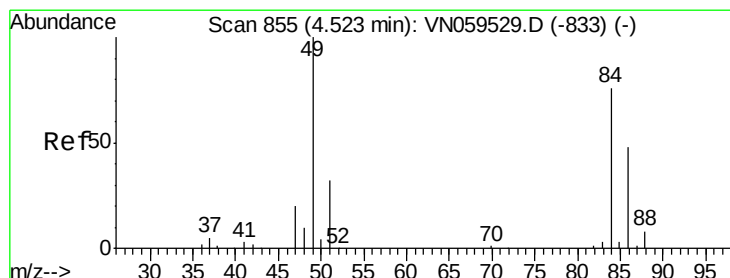
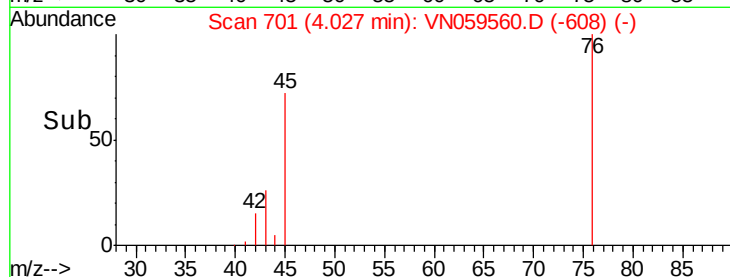
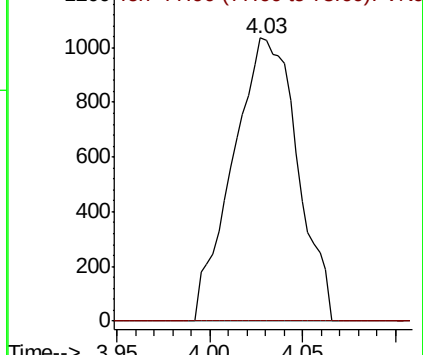
76 100

78 0.0 7.4 11.2#



Abundance Ion 75.90 (75.60 to 76.60): VNO

Ion 77.90 (77.60 to 78.60): VNO



#20

Methylene Chloride

Concen: 0.283 ug/l

RT: 4.53 min Scan# 858

Delta R.T. 0.01 min

Lab File: VN059560.D

Acq: 11 Dec 2019 14:40

Tgt Ion: 84 Resp: 1609

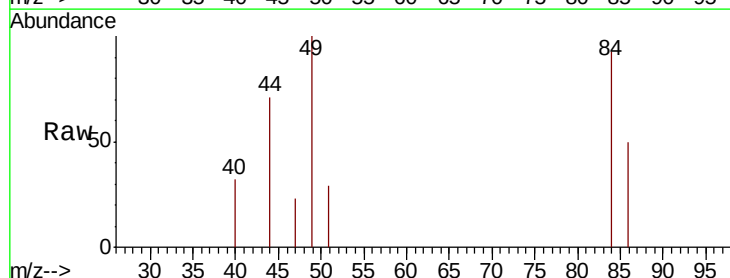
Ion Ratio Lower Upper

84 100

49 107.8 105.8 158.8

51 31.3 33.7 50.5#

86 54.1 51.0 76.4

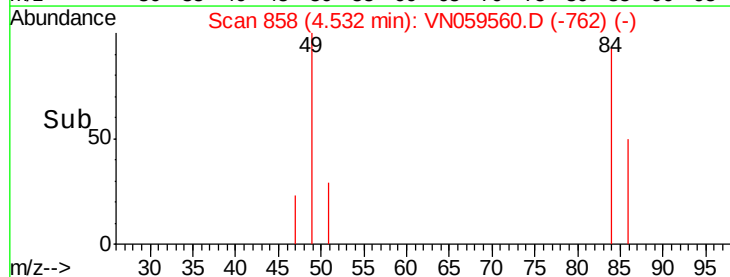
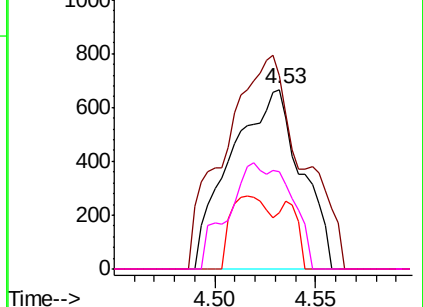


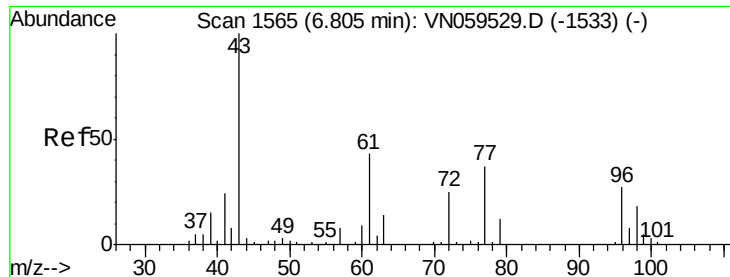
Abundance Ion 83.90 (83.60 to 84.60): VNO

Ion 48.90 (48.60 to 49.60): VNO

Ion 50.90 (50.60 to 51.60): VNO

Ion 85.90 (85.60 to 86.60): VNO





#25

2-Butanone

Concen: 8.902 ug/l

RT: 6.81 min Scan# 1568

Delta R.T. 0.01 min

Lab File: VN059560.D

Acq: 11 Dec 2019 14:40

Instrument :

MSVOA_N

ClientSampleId :

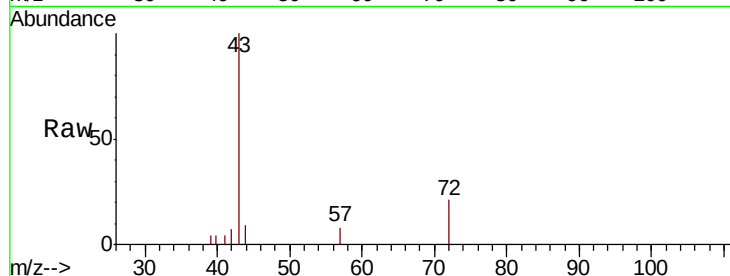
02-03-08-09-10-11-12-COMP

Tot Ion: 43 Resp: 19256

Ion Ratio Lower Upper

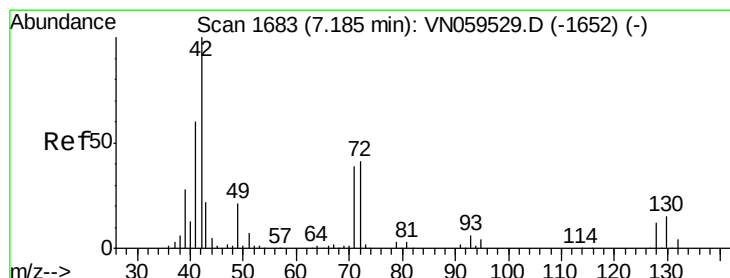
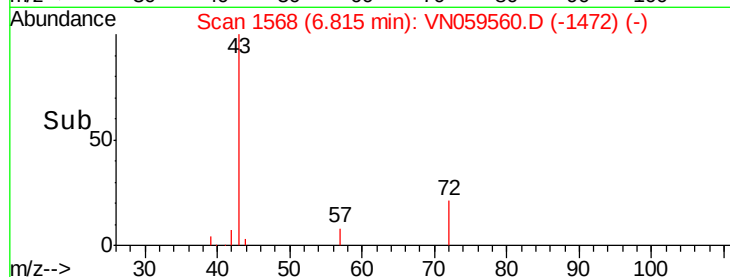
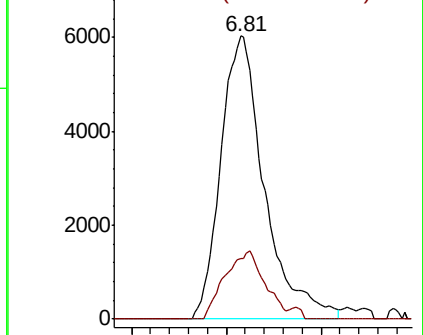
43 100

72 21.3 19.9 29.9



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0



#29

Tetrahydrofuran

Concen: 3.159 ug/l

RT: 7.19 min Scan# 1685

Delta R.T. 0.01 min

Lab File: VN059560.D

Acq: 11 Dec 2019 14:40

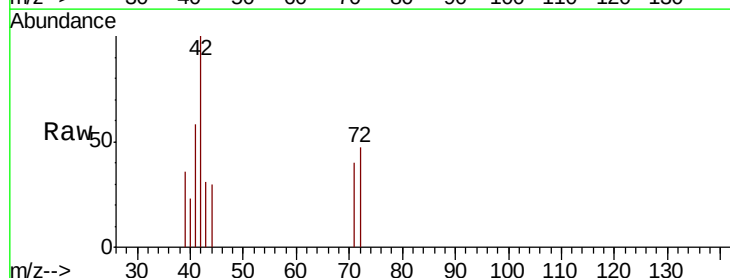
Tgt Ion: 42 Resp: 4753

Ion Ratio Lower Upper

42 100

72 37.6 32.7 49.1

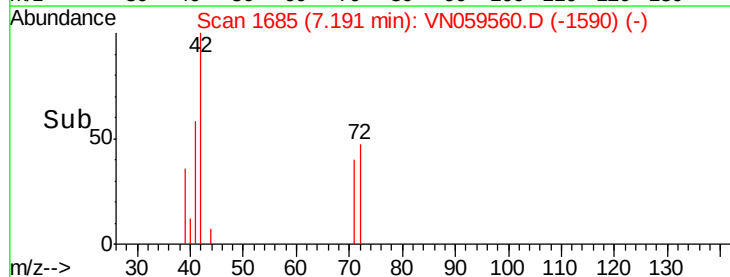
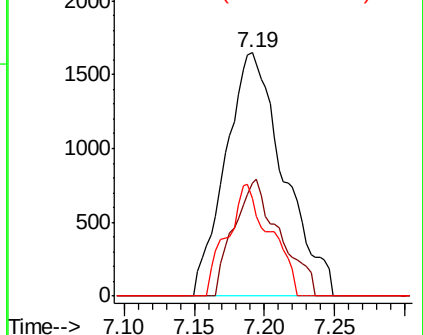
71 34.1 31.4 47.2

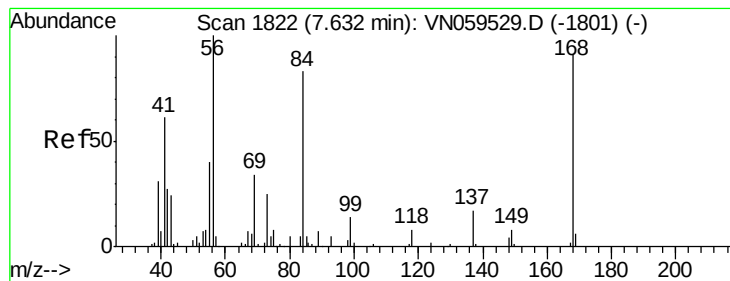


Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0





#31

Cyclohexane

Concen: 1.143 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. 0.02 min

Lab File: VN059560.D

Acq: 11 Dec 2019 14:40

Instrument :

MSVOA_N

ClientSampleId :

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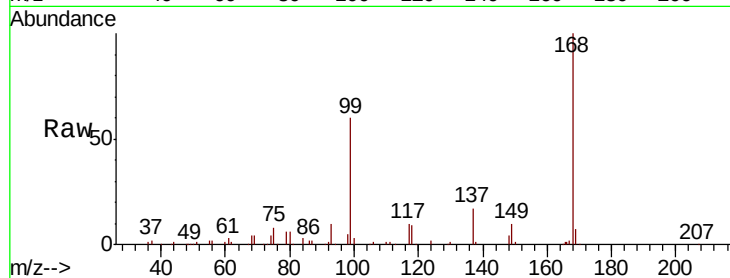
Tot Ion: 56 Resp: 5923

Ion Ratio Lower Upper

56 100

69 174.1 26.9 40.3#

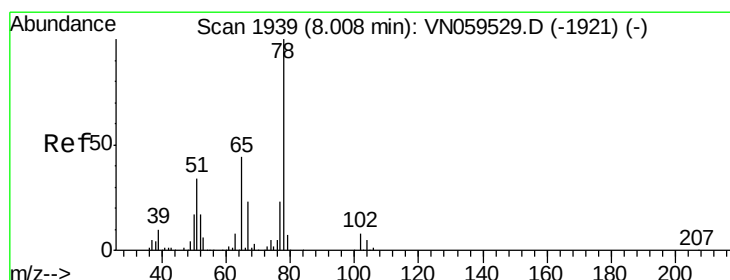
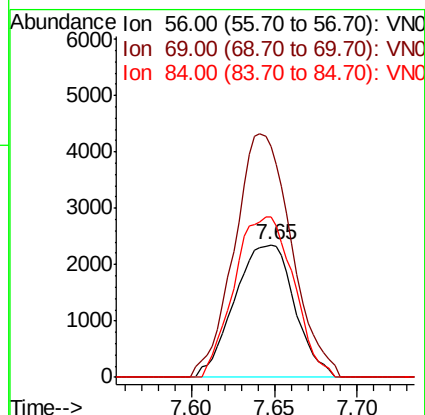
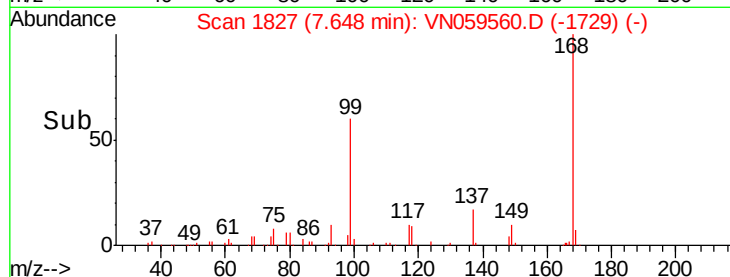
84 120.6 66.5 99.7#



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: 51.096 ug/l

RT: 8.00 min Scan# 1938

Delta R.T. -0.00 min

Lab File: VN059560.D

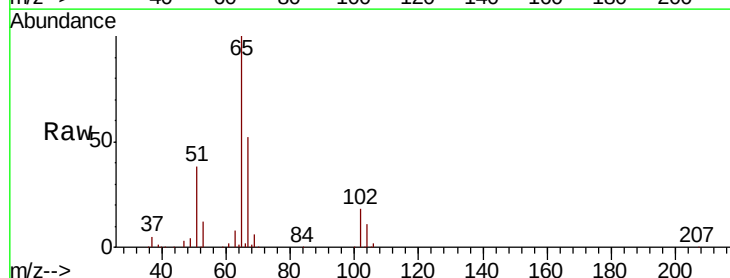
Acq: 11 Dec 2019 14:40

Tgt Ion: 65 Resp: 175771

Ion Ratio Lower Upper

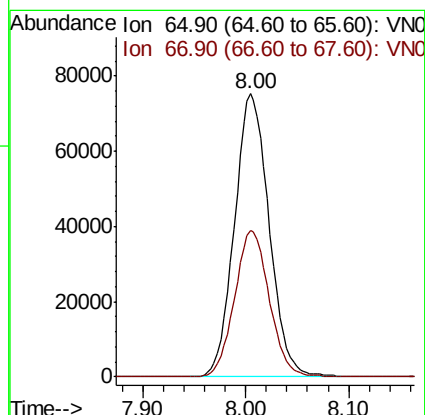
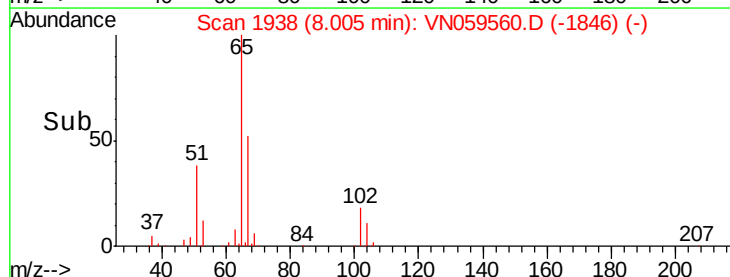
65 100

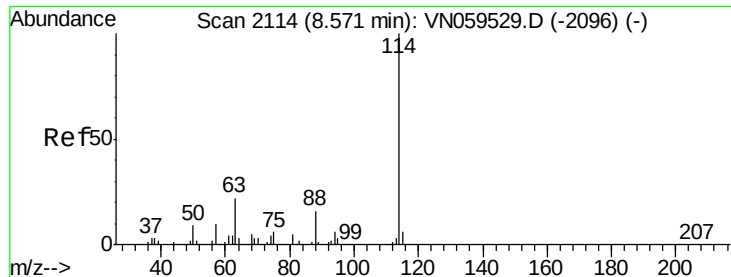
67 51.9 0.0 103.6



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: VN059560.D

Acq: 11 Dec 2019 14:40

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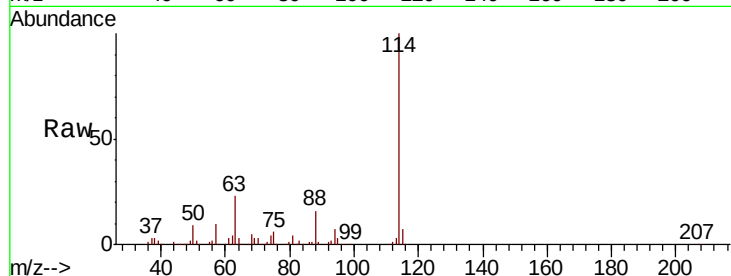
Tot Ion:114 Resp: 396596

Ion Ratio Lower Upper

114 100

63 22.7 0.0 45.0

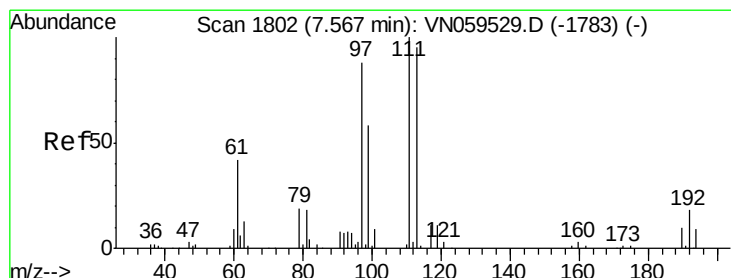
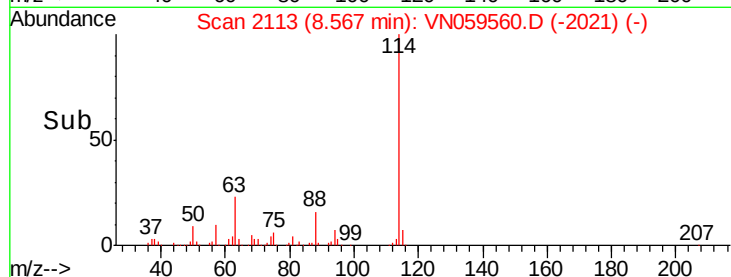
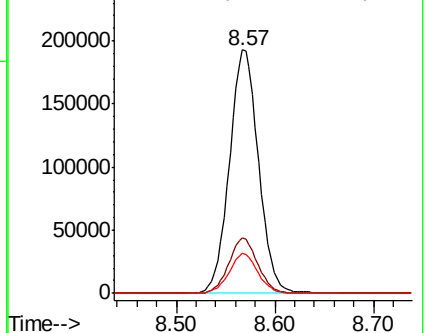
88 16.3 0.0 32.2



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: 52.940 ug/l

RT: 7.57 min Scan# 1802

Delta R.T. -0.00 min

Lab File: VN059560.D

Acq: 11 Dec 2019 14:40

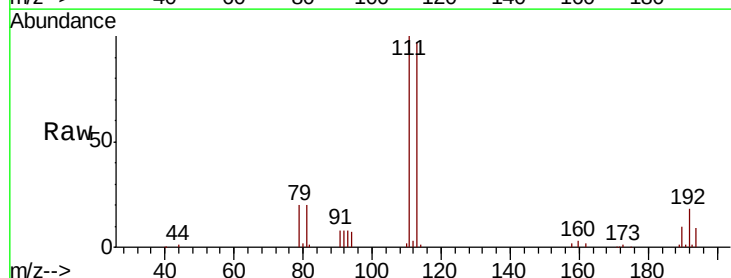
Tgt Ion:113 Resp: 125290

Ion Ratio Lower Upper

113 100

111 101.1 82.2 123.4

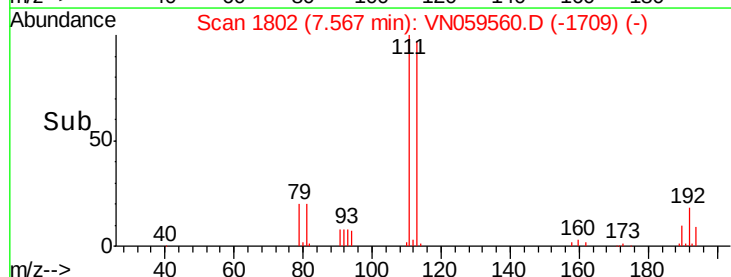
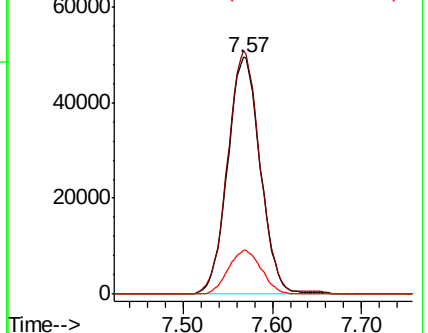
192 18.8 14.8 22.2

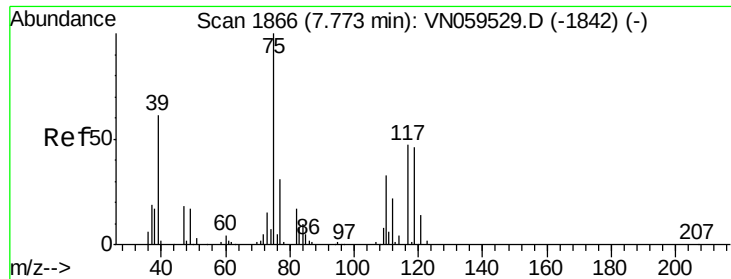


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

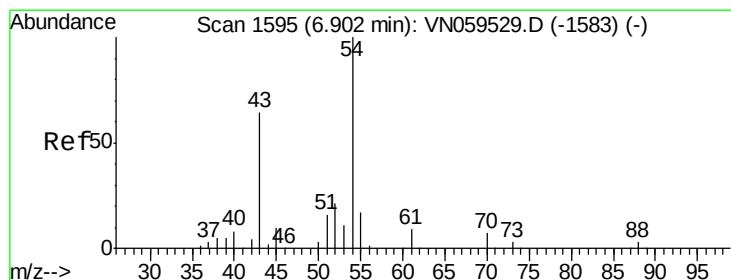
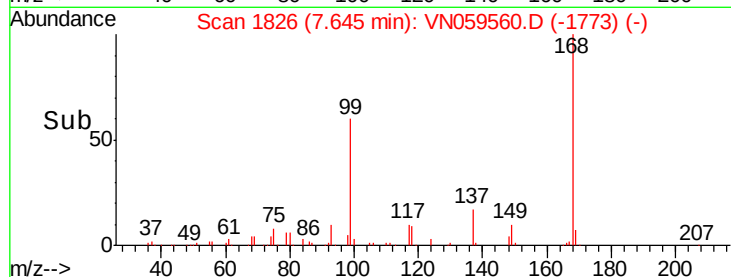
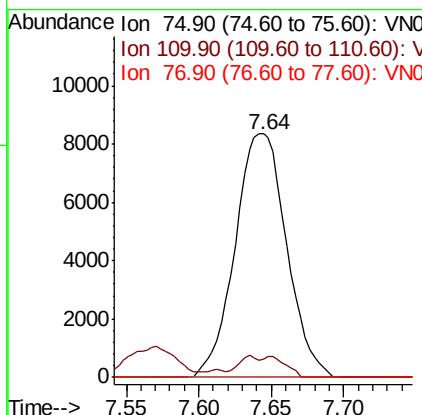
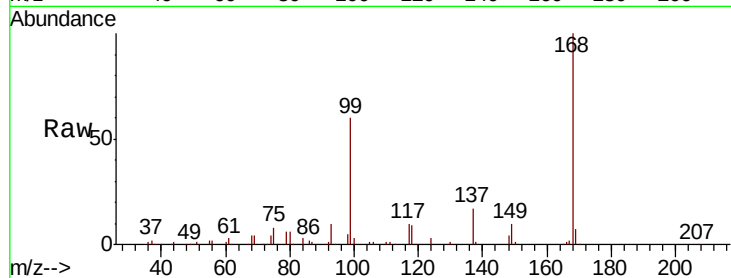




#36
 1,1-Dichloropropene
 Concen: 5.054 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. -0.13 min
 Lab File: VN059560.D
 Acq: 11 Dec 2019 14:40

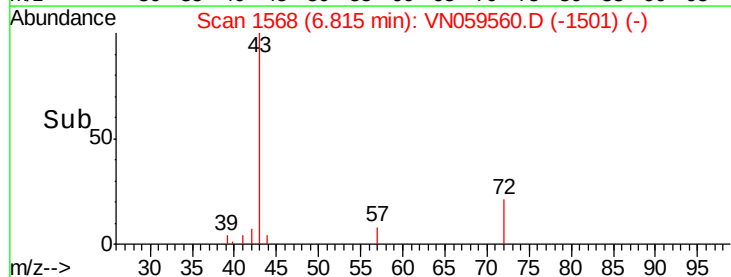
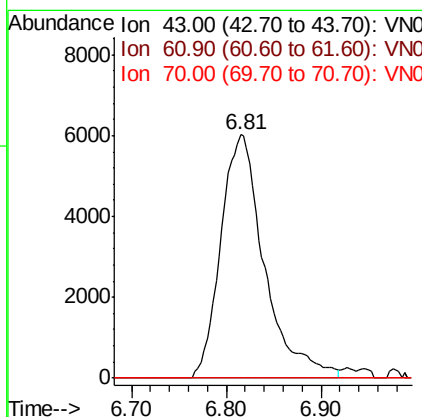
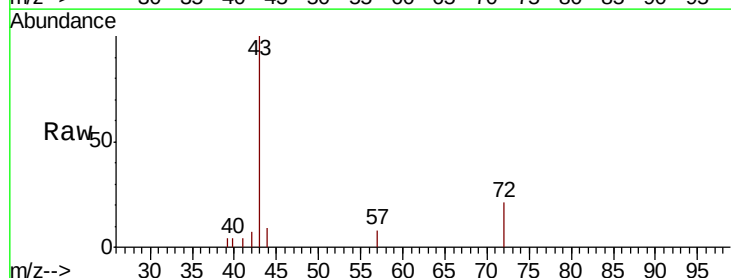
Instrument :
 MSVOA_N
 ClientSampleId :
 02-03-08-09-10-11-12-COMP

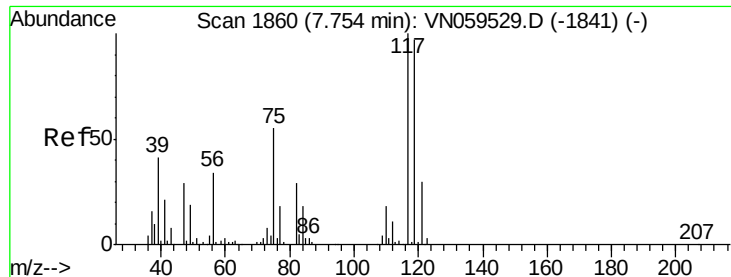
Tot Ion	Ratio	Lower	Upper
75	100		
110	2.2	16.7	50.0#
77	0.0	24.6	37.0#



#37
 Ethyl Acetate
 Concen: 5.471 ug/l
 RT: 6.81 min Scan# 1568
 Delta R.T. -0.09 min
 Lab File: VN059560.D
 Acq: 11 Dec 2019 14:40

Tgt Ion	Ratio	Lower	Upper
43	100		
61	0.0	11.0	16.6#
70	0.0	7.7	11.5#





#38

Carbon Tetrachloride

Concen: 6.122 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.11 min

Lab File: VN059560.D

Acq: 11 Dec 2019 14:40

Instrument :

MSVOA_N

ClientSampleId :

02-03-08-09-10-11-12-COMP

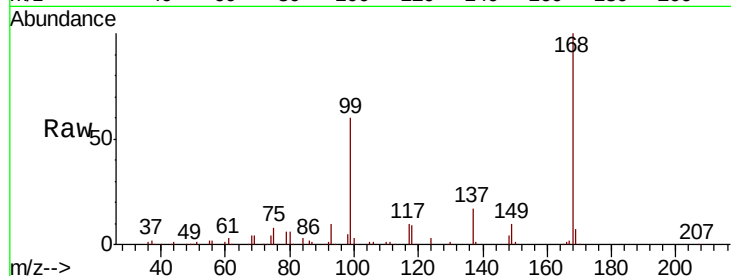
Tot Ion:117 Resp: 24552

Ion Ratio Lower Upper

117 100

119 4.7 77.0 115.4#

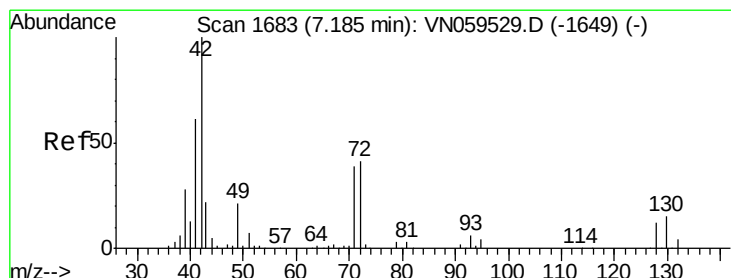
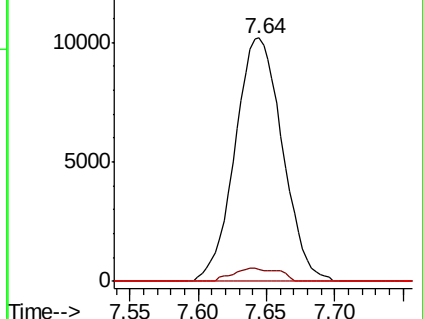
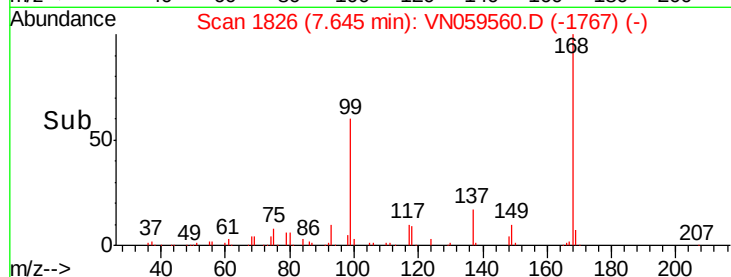
121 0.0 24.1 36.1#



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



#41

Methacrylonitrile

Concen: 1.513 ug/l

RT: 7.19 min Scan# 1685

Delta R.T. 0.04 min

Lab File: VN059560.D

Acq: 11 Dec 2019 14:40

Tgt Ion: 41 Resp: 2991

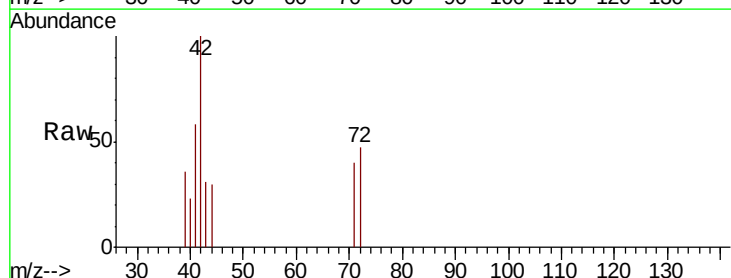
Ion Ratio Lower Upper

41 100

39 52.7 0.0 0.0#

67 0.0 0.0 0.0

52 0.0 0.0 0.0

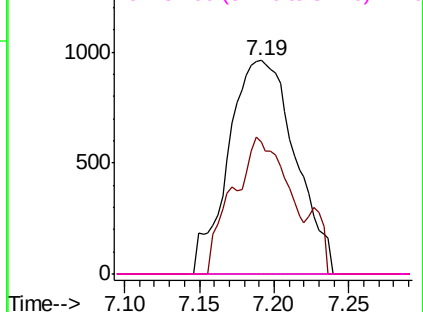
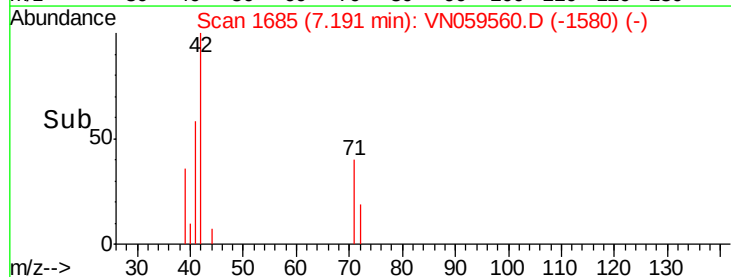


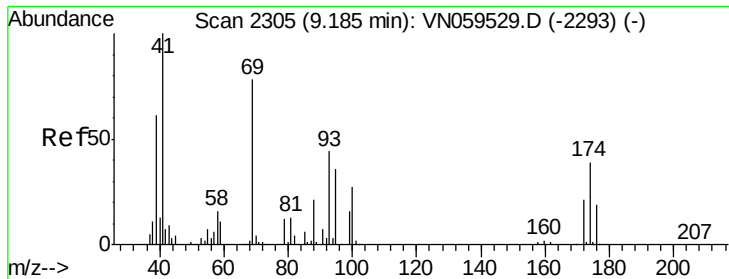
Abundance Ion 41.00 (40.70 to 41.70): V

Ion 39.00 (38.70 to 39.70): V

Ion 67.00 (66.70 to 67.70): V

Ion 52.00 (51.70 to 52.70): V

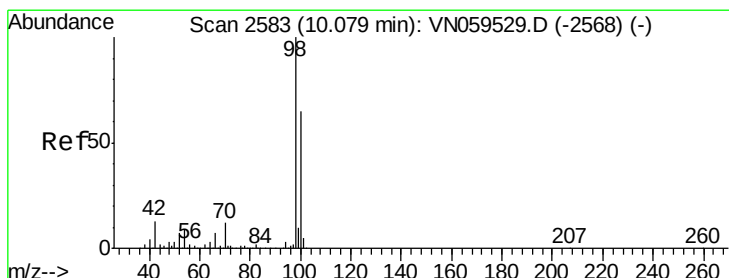
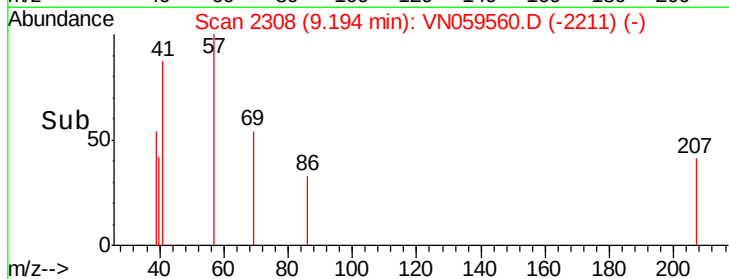
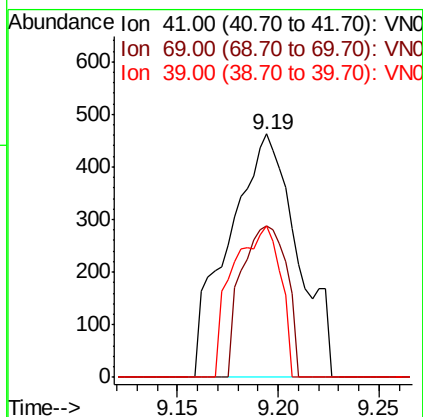
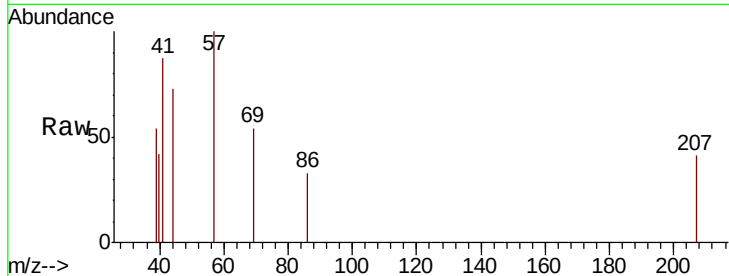




#48
Methvl methacrylate
Concen: 0.355 ug/l
RT: 9.19 min Scan# 2308
Delta R.T. 0.01 min
Lab File: VN059560.D
Acq: 11 Dec 2019 14:40

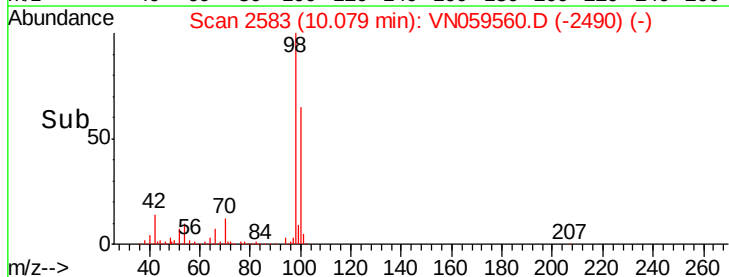
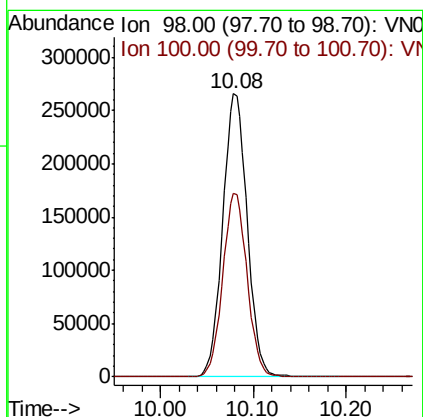
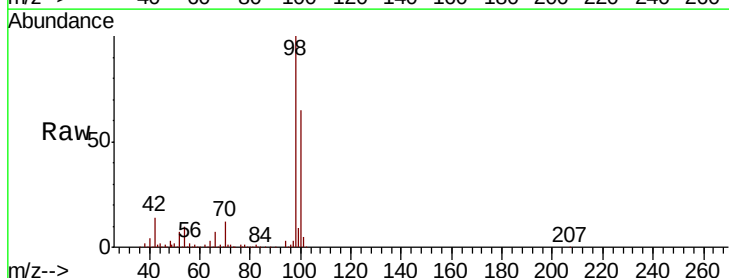
Instrument :
MSVOA_N
ClientSampleId :
02-03-08-09-10-11-12-COMP

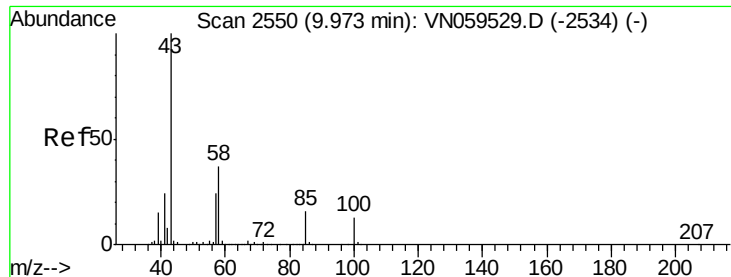
Tot Ion: 41 Resp: 1090
Ion Ratio Lower Upper
41 100
69 41.4 64.0 96.0#
39 43.9 50.0 75.0#



#50
Toluene-d8
Concen: 50.363 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. -0.00 min
Lab File: VN059560.D
Acq: 11 Dec 2019 14:40

Tgt Ion: 98 Resp: 486612
Ion Ratio Lower Upper
98 100
100 64.4 51.8 77.8

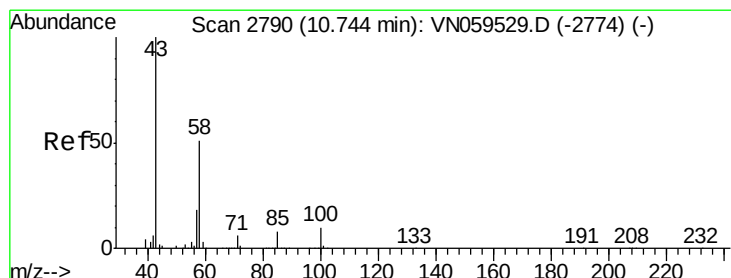
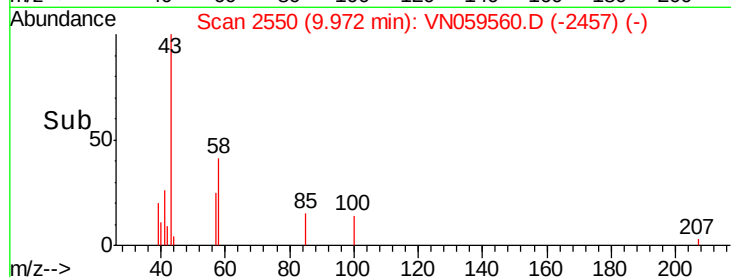
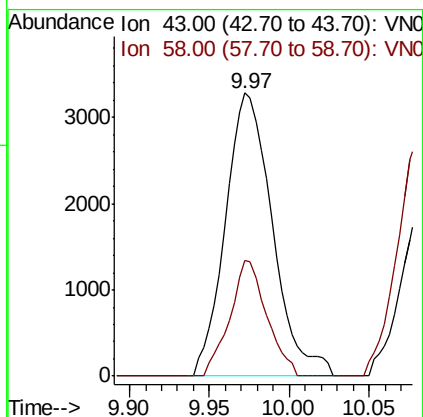
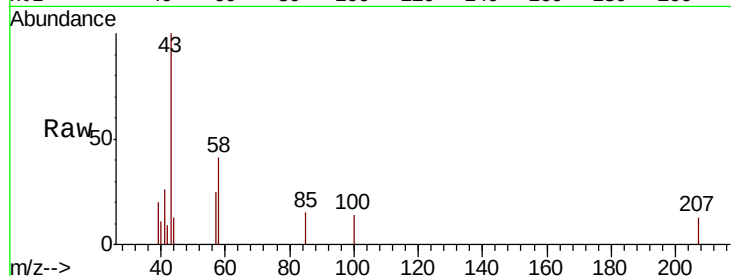




#51
4-Methyl-2-Pentanone
Concen: 0.672 ug/l
RT: 9.97 min Scan# 2550
Delta R.T. 0.00 min
Lab File: VN059560.D
Acq: 11 Dec 2019 14:40

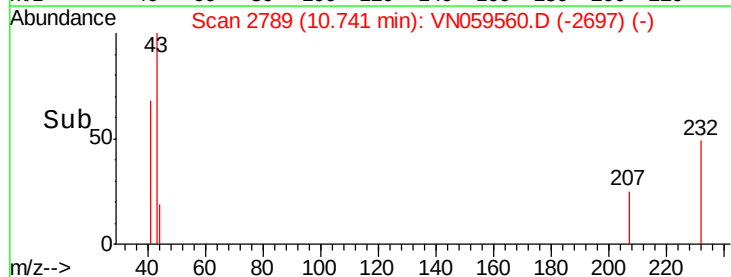
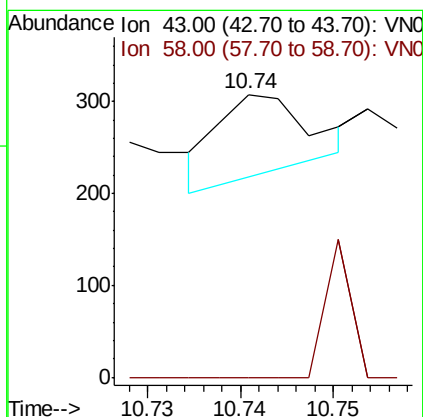
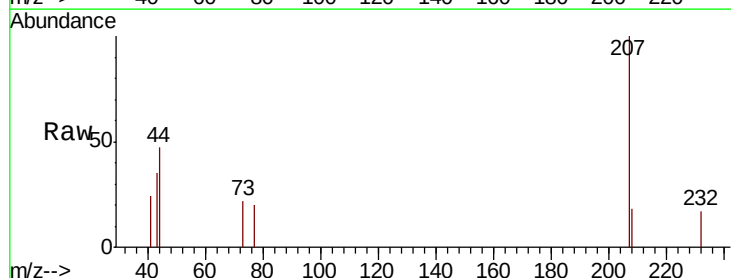
Instrument :
MSVOA_N
ClientSampleId :
02-03-08-09-10-11-12-COMP

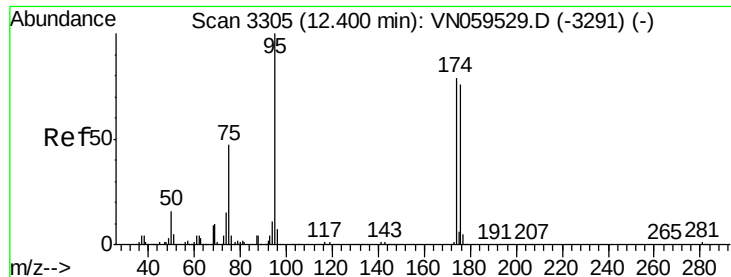
Tot Ion: 43 Resp: 6606
Ion Ratio Lower Upper
43 100
58 31.8 30.1 45.1



#59
2-Hexanone
Concen: 2.232 ug/l
RT: 10.74 min Scan# 2789
Delta R.T. -0.00 min
Lab File: VN059560.D
Acq: 11 Dec 2019 14:40

Tgt Ion: 43 Resp: 60
Ion Ratio Lower Upper
43 100
58 48.3 25.9 77.6





#62

4-Bromofluorobenzene

Concen: 45.044 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN059560.D

Acq: 11 Dec 2019 14:40

Instrument :

MSVOA_N

ClientSampleId :

02-03-08-09-10-11-12-COMP

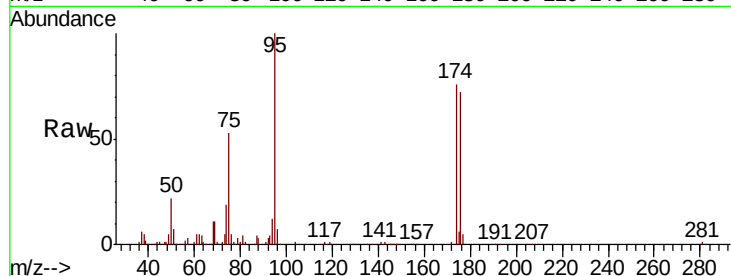
Tot Ion: 95 Resp: 161103

Ion Ratio Lower Upper

95 100

174 75.4 0.0 158.0

176 72.6 0.0 155.4

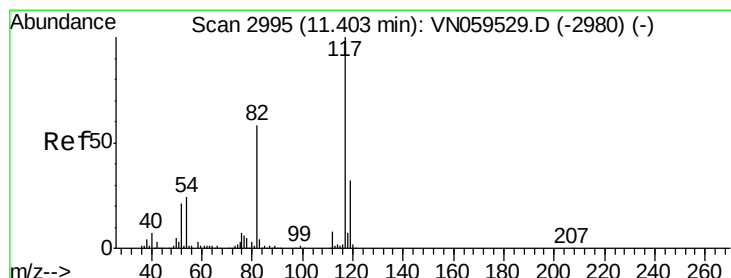
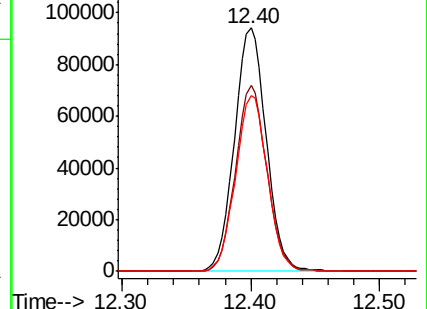
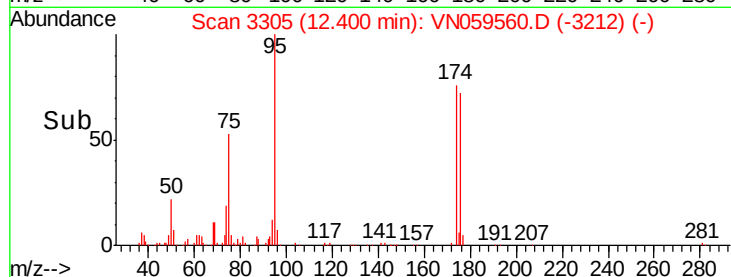


Abundance Ion 94.90 (94.60 to 95.60): VN059529.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN059529.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN059529.D (-3291) (-)

12.40



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2995

Delta R.T. -0.00 min

Lab File: VN059560.D

Acq: 11 Dec 2019 14:40

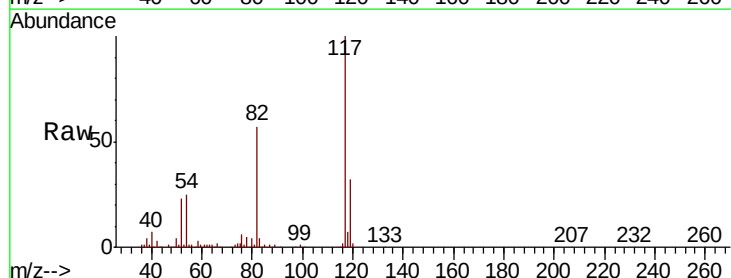
Tgt Ion: 117 Resp: 353984

Ion Ratio Lower Upper

117 100

82 57.1 46.5 69.7

119 31.7 25.2 37.8

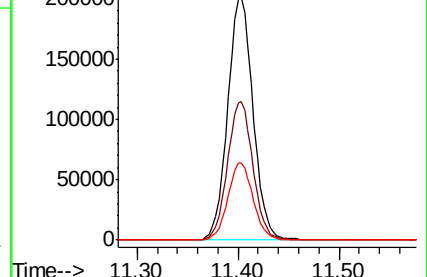
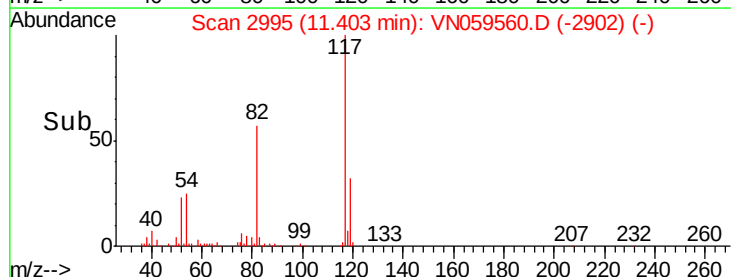


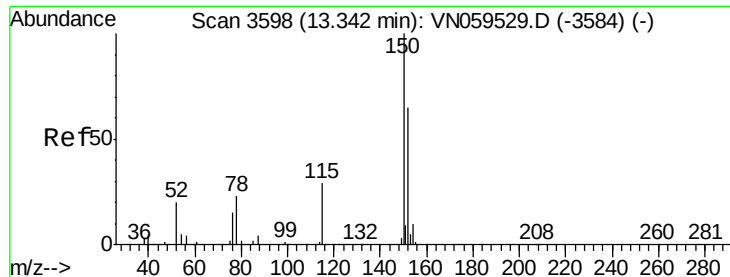
Abundance Ion 116.90 (116.60 to 117.60): VN059529.D (-2980) (-)

Ion 82.00 (81.70 to 82.70): VN059529.D (-2980) (-)

Ion 118.90 (118.60 to 119.60): VN059529.D (-2980) (-)

11.40





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. -0.00 min

Lab File: VN059560.D

Acq: 11 Dec 2019 14:40

Instrument :

MSVOA_N

ClientSampleId :

02-03-08-09-10-11-12-COMP

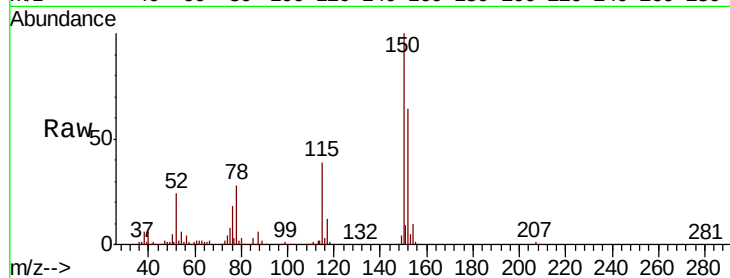
Tot Ion:152 Resp: 139557

Ion Ratio Lower Upper

152 100

115 60.3 29.4 88.2

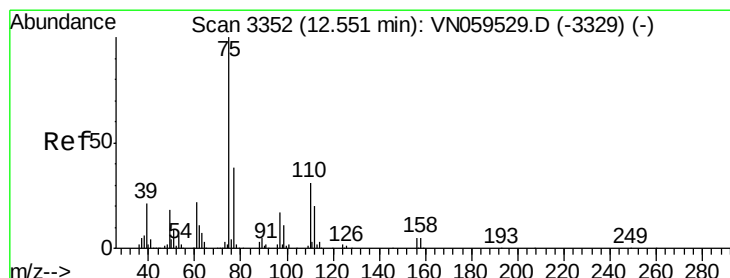
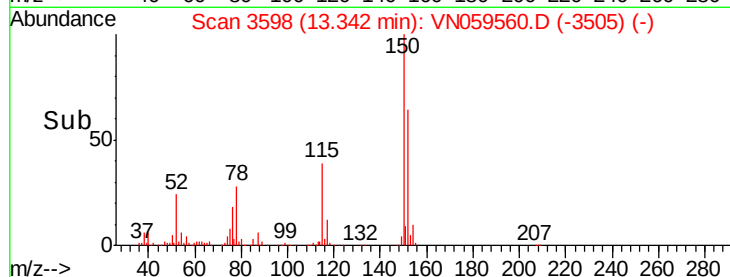
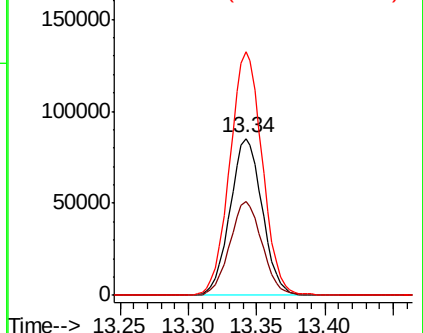
150 156.8 0.0 342.4



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



#76

1,2,3-Trichloropropane

Concen: 23.670 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN059560.D

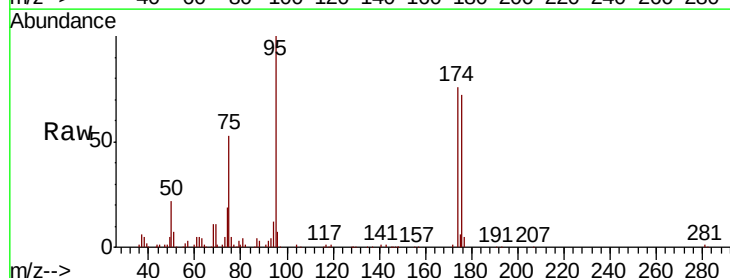
Acq: 11 Dec 2019 14:40

Tgt Ion: 75 Resp: 84474

Ion Ratio Lower Upper

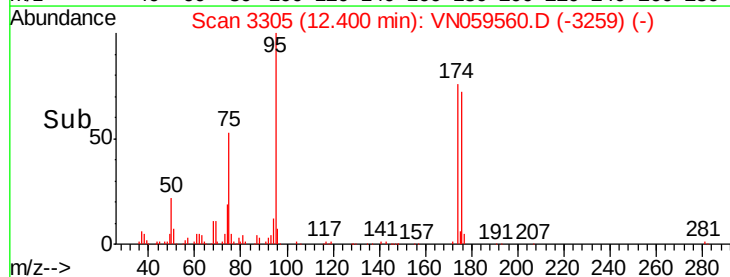
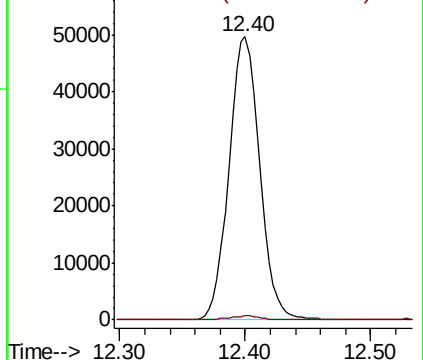
75 100

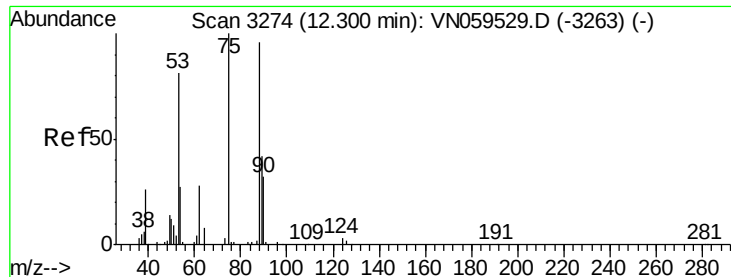
77 1.4 0.0 0.0#



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: 63.684 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN059560.D

Acq: 11 Dec 2019 14:40

Instrument :

MSVOA_N

ClientSampleId :

02-03-08-09-10-11-12-COMP

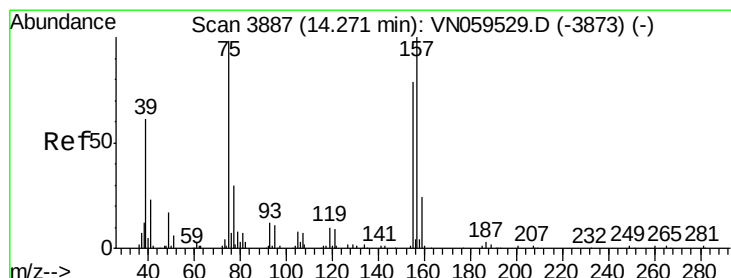
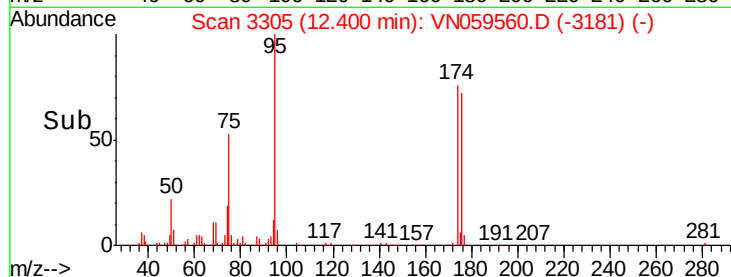
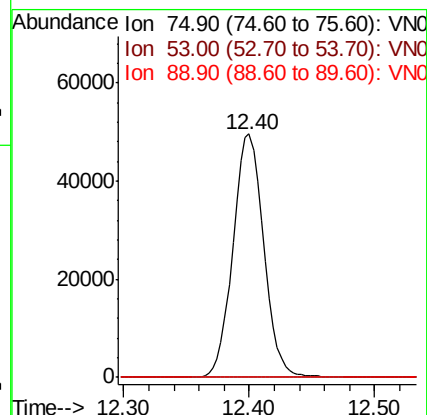
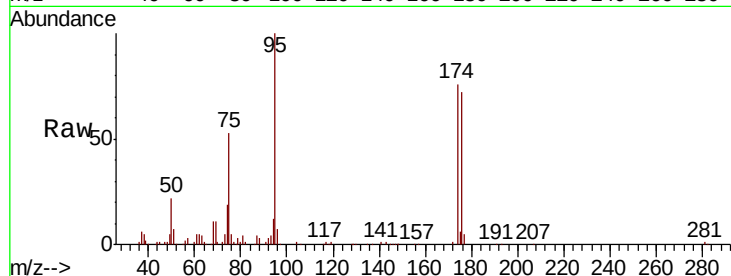
Tot Ion: 75 Resp: 84474

Ion Ratio Lower Upper

75 100

53 0.0 67.0 100.6#

89 0.0 35.5 53.3#



#92

1,2-Dibromo-3-Chloropropane

Concen: 2.277 ug/l

RT: 14.26 min Scan# 3884

Delta R.T. -0.01 min

Lab File: VN059560.D

Acq: 11 Dec 2019 14:40

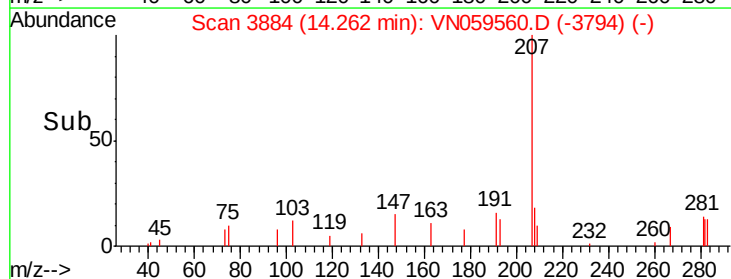
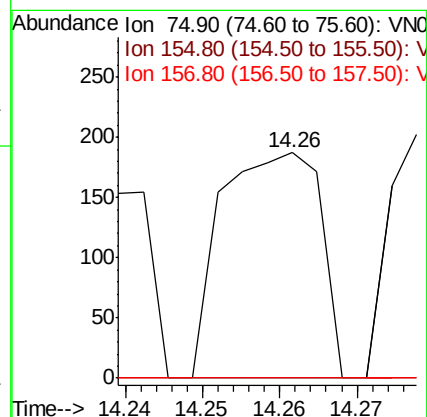
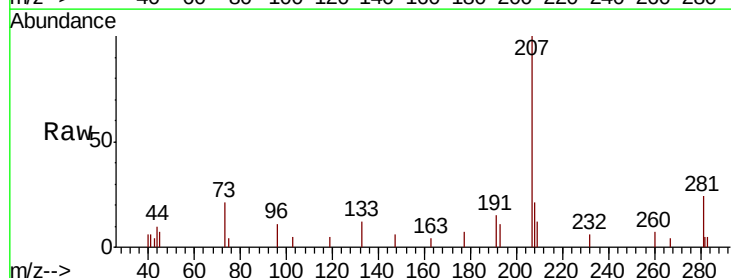
Tgt Ion: 75 Resp: 167

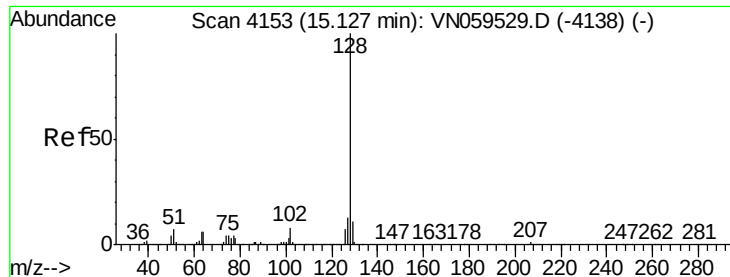
Ion Ratio Lower Upper

75 100

155 0.0 40.4 121.1#

157 0.0 51.1 153.3#





#95

Naphthalene

Concen: 0.214 ug/l

RT: 15.13 min Scan# 4153

Delta R.T. 0.00 min

Lab File: VN059560.D

Acq: 11 Dec 2019 14:40

Instrument :

MSVOA_N

ClientSampleId :

02-03-08-09-10-11-12-COMP

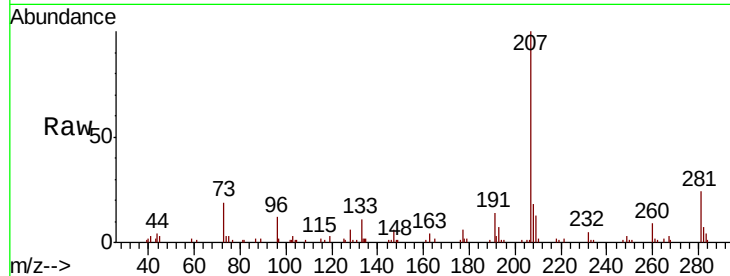
Tot Ion:128 Resp: 1949

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.4#

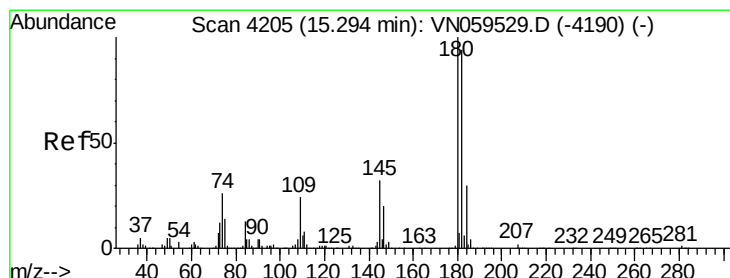
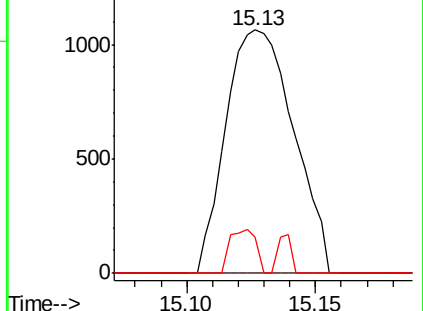
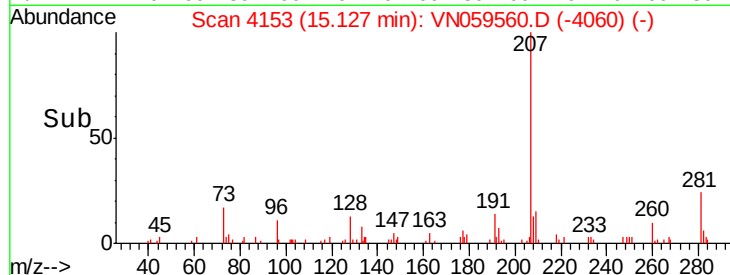
129 6.9 8.6 13.0#



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: 2.623 ug/l

RT: 15.30 min Scan# 4207

Delta R.T. 0.01 min

Lab File: VN059560.D

Acq: 11 Dec 2019 14:40

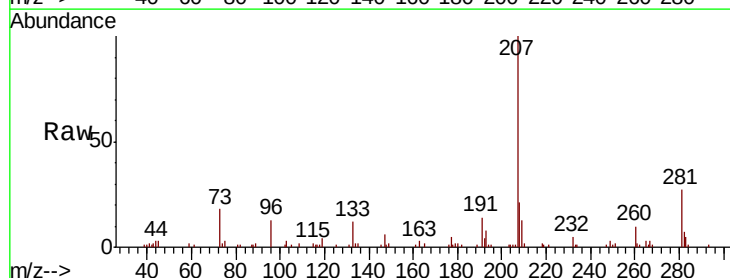
Tgt Ion:180 Resp: 680

Ion Ratio Lower Upper

180 100

182 34.0 47.1 141.4#

145 74.1 15.8 47.4#



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

