

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN120419\
 Data File : VN059483.D
 Acq On : 4 Dec 2019 13:46
 Operator : JC/SP
 Sample : K6084-03DL 50X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 30735DL

Quant Time: Dec 05 06:59:30 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N120319W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 03 16:37:42 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	337452	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	531770	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	481626	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	206414	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.00	65	200017	47.71	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.42%	
35) Dibromofluoromethane	7.57	113	159646	48.20	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.40%	
50) Toluene-d8	10.08	98	651907	49.92	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.84%	
62) 4-Bromofluorobenzene	12.40	95	230503	50.54	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.08%	

Target Compounds

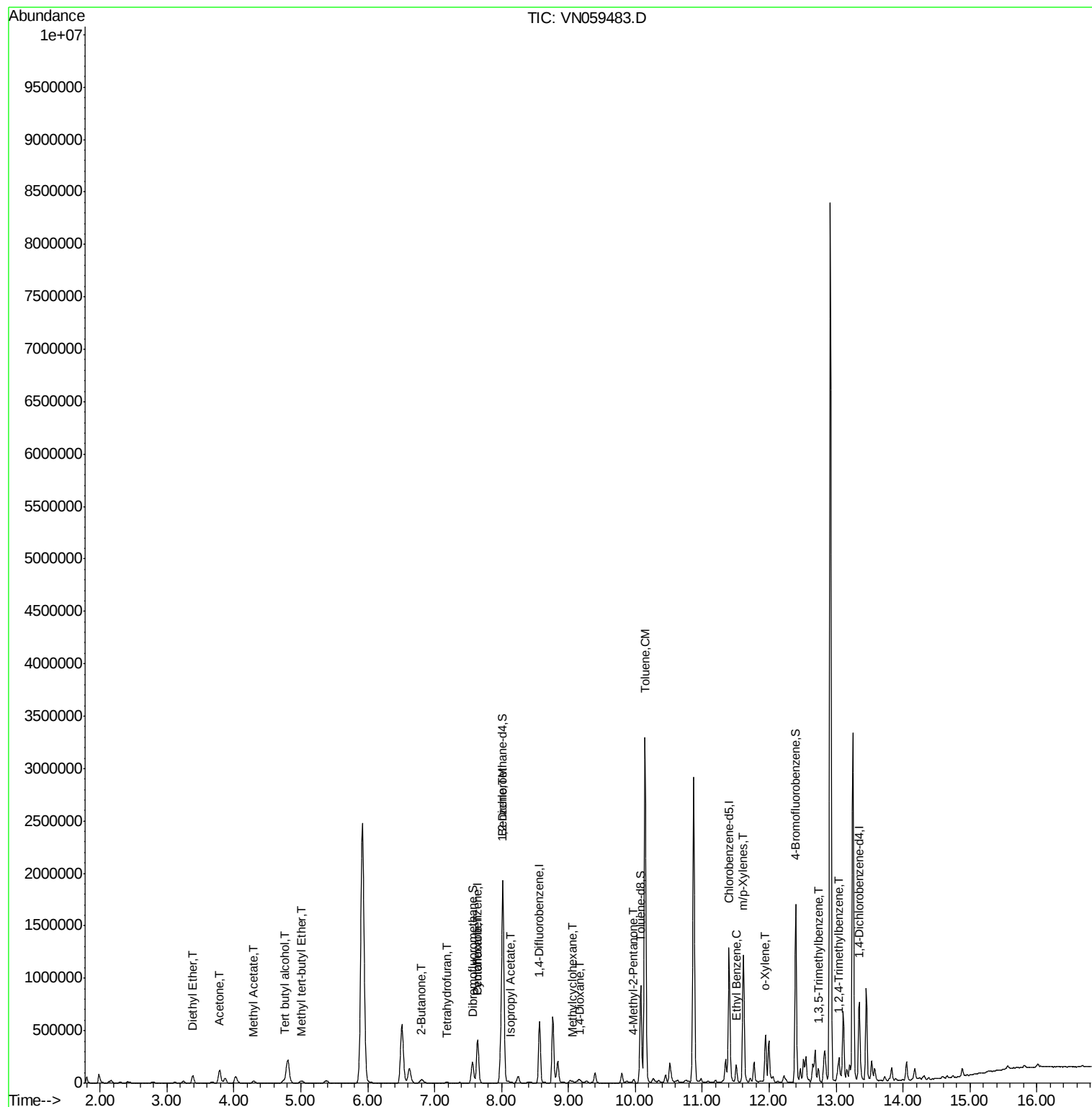
						Qvalue
8) Diethyl Ether	3.38	74	35436	14.911	ug/l	96
11) Tert butyl alcohol	4.74	59	53758	68.053	ug/l #	93
16) Acetone	3.79	43	201671	82.664	ug/l	99
18) Methyl Acetate	4.30	43	37618	6.666	ug/l	96
19) Methyl tert-butyl Ether	5.01	73	31022	2.601	ug/l	91
25) 2-Butanone	6.81	43	54925	17.238	ug/l	98
29) Tetrahydrofuran	7.19	42	3731	1.862	ug/l #	69
31) Cyclohexane	7.64	56	12647	1.791	ug/l #	26
39) Methylcyclohexane	9.07	83	5285	0.794	ug/l	87
40) Benzene	8.02	78	1921679	118.588	ug/l	99
43) Isopropyl Acetate	8.14	43	7510	0.817	ug/l #	89
49) 1,4-Dioxane	9.18	88	7867	125.348	ug/l #	22
51) 4-Methyl-2-Pentanone	9.97	43	22494	4.122	ug/l	99
52) Toluene	10.15	92	1502305	153.288	ug/l	96
67) Ethyl Benzene	11.51	91	124907	6.771	ug/l	99
68) m/p-Xylenes	11.61	106	383817	55.878	ug/l	98
69) o-Xylene	11.94	106	123585	18.898	ug/l	100
80) 1,3,5-Trimethylbenzene	12.73	105	74193	5.363	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	131682	9.740	ug/l	98

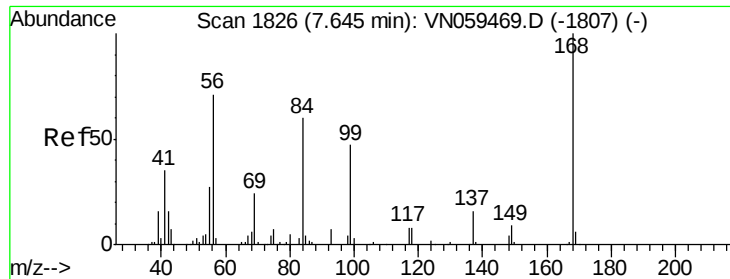
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Dec 03 16:37:42 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: VN059483.D

Acq: 4 Dec 2019 13:46

Instrument :

MSVOA_N

ClientSampleId :

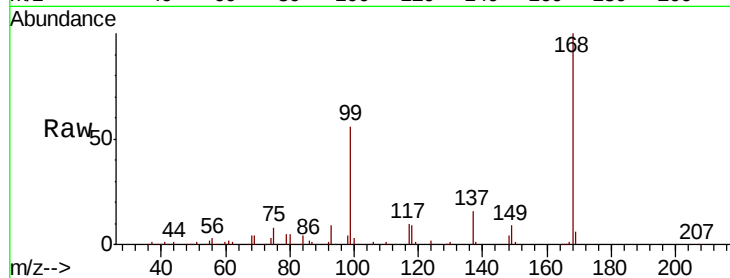
30735DL

Tot Ion:168 Resp: 337452

Ion Ratio Lower Upper

168 100

99 55.6 43.4 65.2



Abundance Ion 167.90 (167.60 to 168.60): VN059469.D (-1807) (-)

Ion 98.90 (98.60 to 99.60): VN059469.D (-1807) (-)

7.64

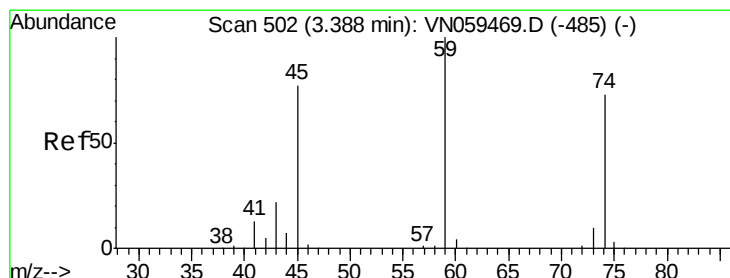
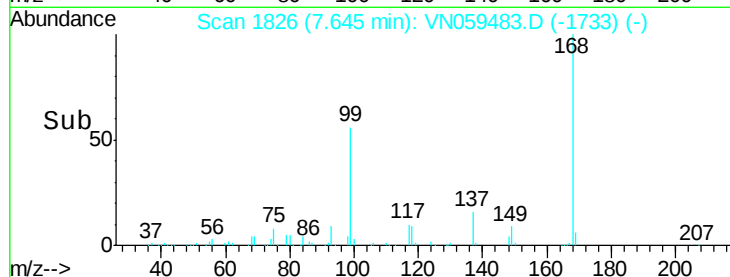
150000

100000

50000

0

Time-->



#8

Diethyl Ether

Concen: 14.911 ug/l

RT: 3.38 min Scan# 501

Delta R.T. -0.00 min

Lab File: VN059483.D

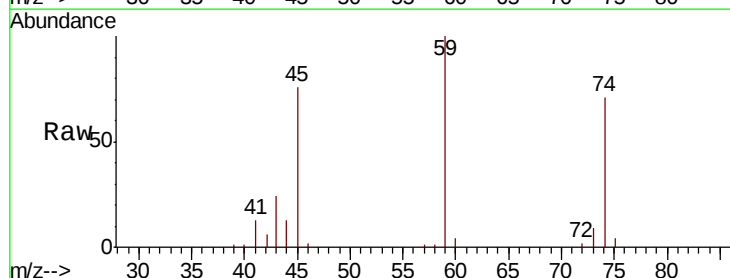
Acq: 4 Dec 2019 13:46

Tgt Ion: 74 Resp: 35436

Ion Ratio Lower Upper

74 100

45 109.1 52.3 157.1



Abundance Ion 74.00 (73.70 to 74.70): VN059469.D (-485) (-)

Ion 45.00 (44.70 to 45.70): VN059469.D (-485) (-)

3.38

20000

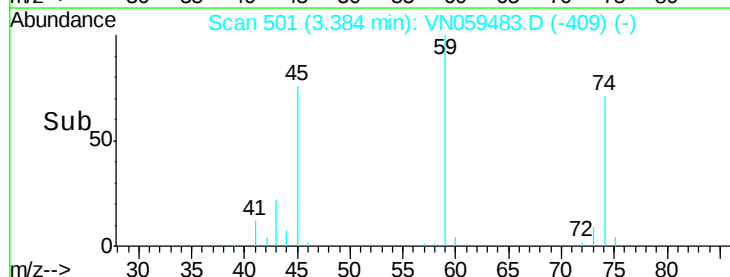
15000

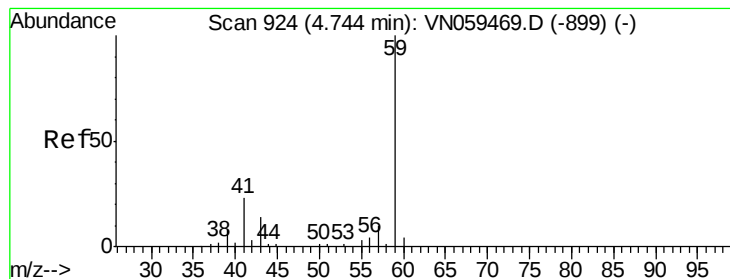
10000

5000

0

Time-->





#11

Tert butyl alcohol

Concen: 68.053 ug/l

RT: 4.74 min Scan# 924

Delta R.T. -0.00 min

Lab File: VN059483.D

Acq: 4 Dec 2019 13:46

Instrument :

MSVOA_N

ClientSampleId :

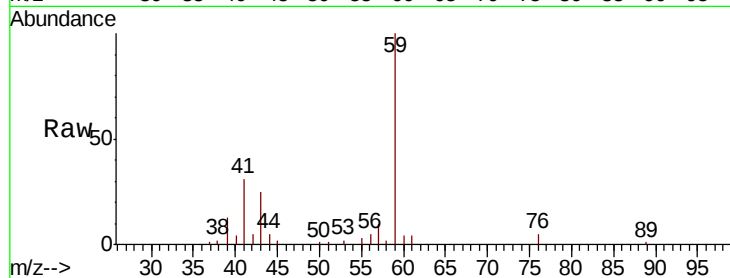
30735DL

Tot Ion: 59 Resp: 53758

Ion Ratio Lower Upper

59 100

57 7.6 8.1 12.1#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0

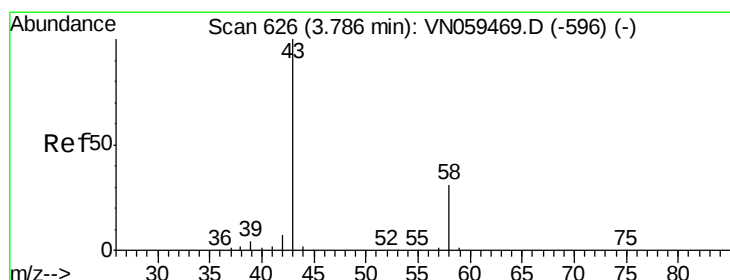
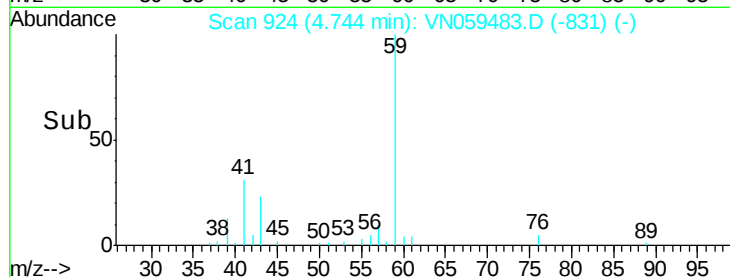
15000

10000

5000

0

Time-->



#16

Acetone

Concen: 82.664 ug/l

RT: 3.79 min Scan# 626

Delta R.T. 0.00 min

Lab File: VN059483.D

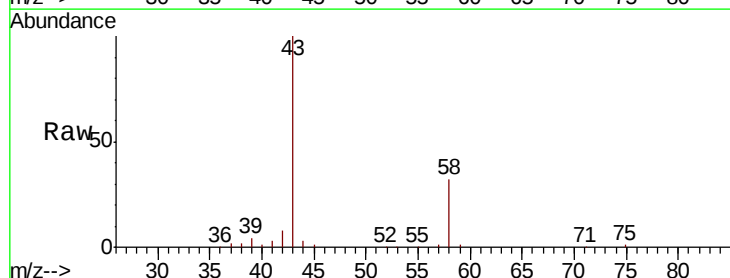
Acq: 4 Dec 2019 13:46

Tgt Ion: 43 Resp: 201671

Ion Ratio Lower Upper

43 100

58 31.8 24.9 37.3



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

80000

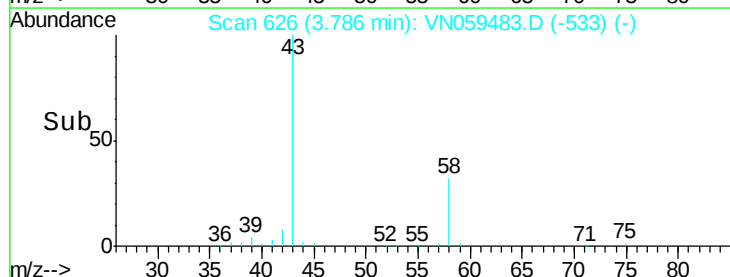
60000

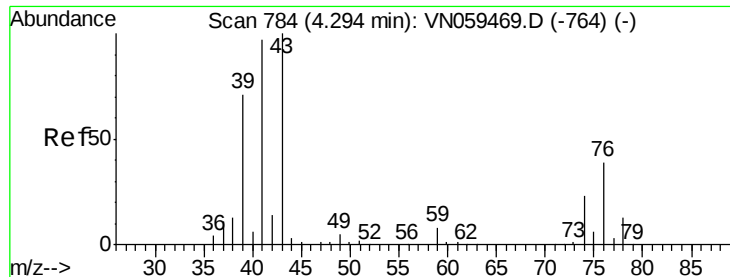
40000

20000

0

Time-->

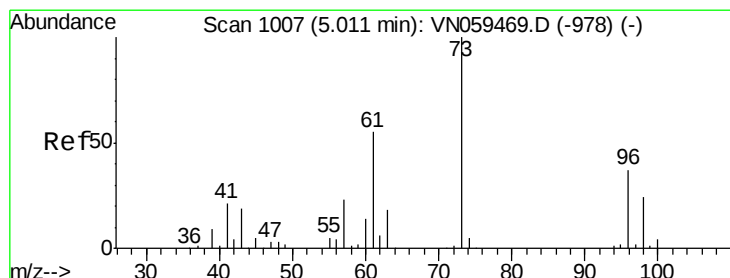
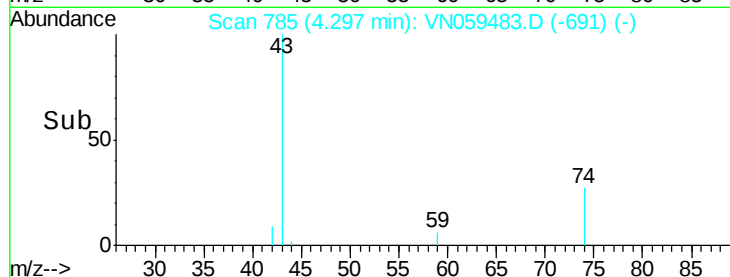
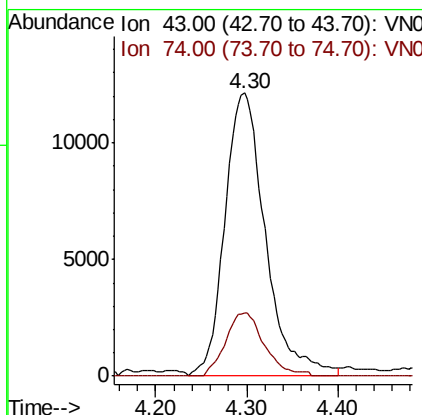
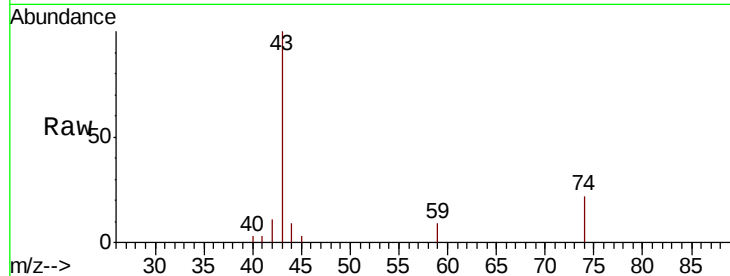




#18
Methyl Acetate
Concen: 6.666 ug/l
RT: 4.30 min Scan# 785
Delta R.T. 0.00 min
Lab File: VN059483.D
Acq: 4 Dec 2019 13:46

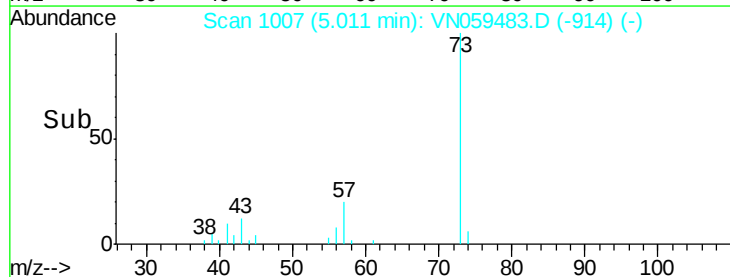
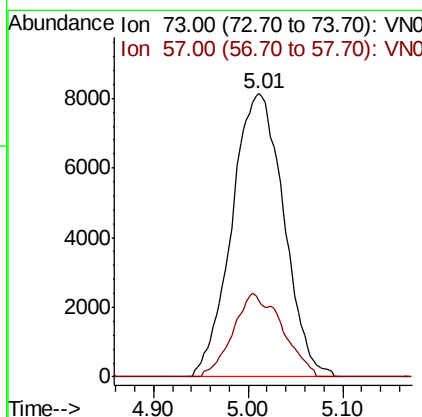
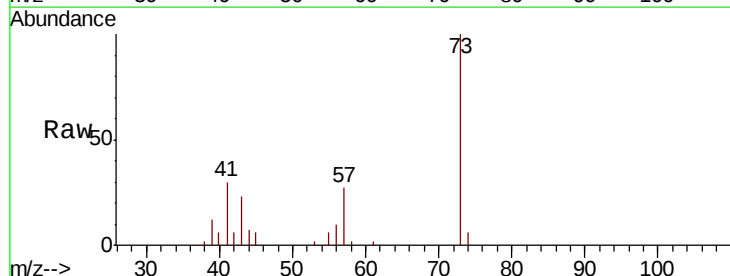
Instrument :
MSVOA_N
ClientSampled :
30735DL

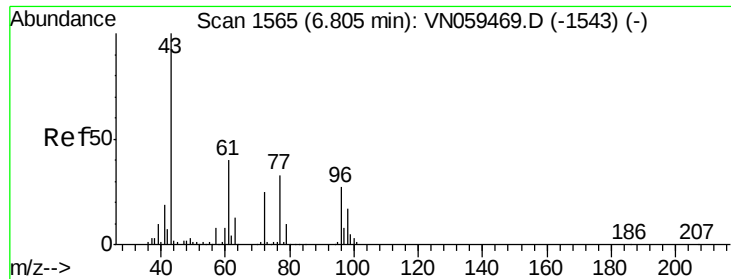
Tot Ion: 43 Resp: 37618
Ion Ratio Lower Upper
43 100
74 21.1 18.3 27.5



#19
Methyl tert-butyl Ether
Concen: 2.601 ug/l
RT: 5.01 min Scan# 1007
Delta R.T. -0.00 min
Lab File: VN059483.D
Acq: 4 Dec 2019 13:46

Tgt Ion: 73 Resp: 31022
Ion Ratio Lower Upper
73 100
57 26.9 18.0 27.0





#25

2-Butanone

Concen: 17.238 ug/l

RT: 6.81 min Scan# 1566

Delta R.T. 0.00 min

Lab File: VN059483.D

Acq: 4 Dec 2019 13:46

Instrument :

MSVOA_N

ClientSampleId :

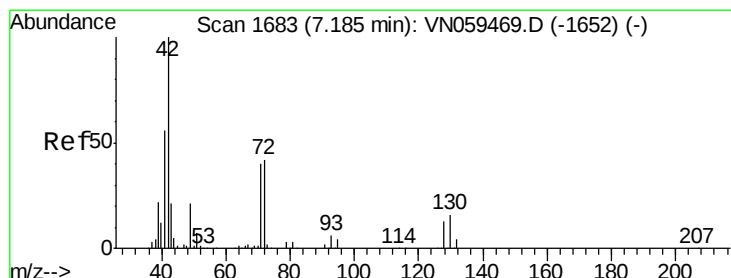
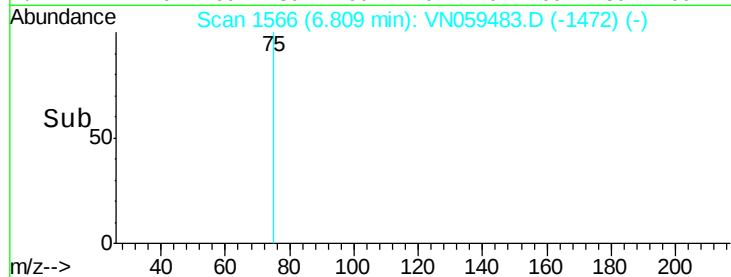
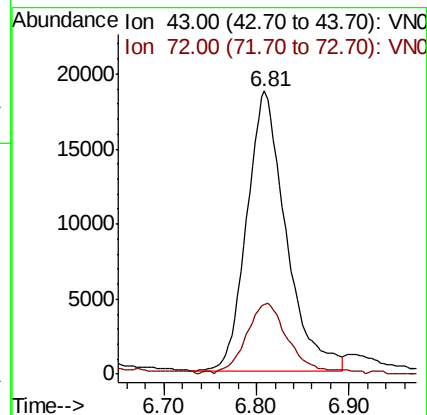
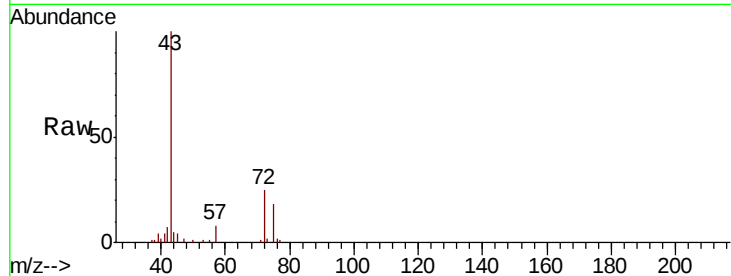
30735DL

Tot Ion: 43 Resp: 54925

Ion Ratio Lower Upper

43 100

72 24.1 20.2 30.2



#29

Tetrahydrofuran

Concen: 1.862 ug/l

RT: 7.19 min Scan# 1686

Delta R.T. 0.01 min

Lab File: VN059483.D

Acq: 4 Dec 2019 13:46

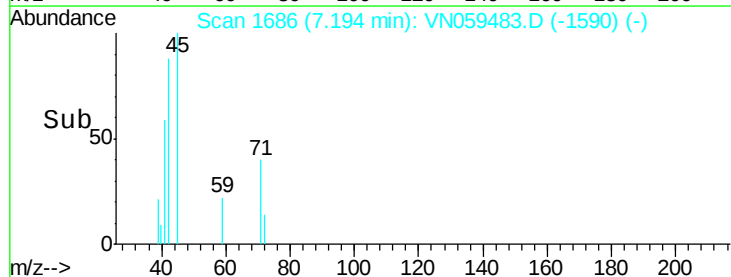
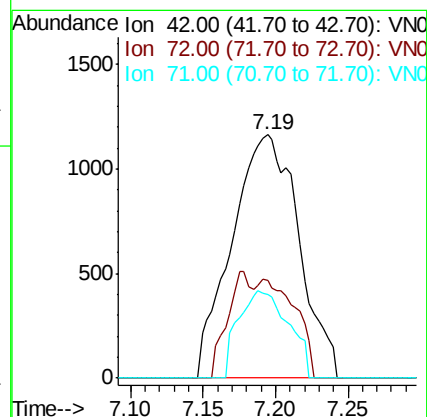
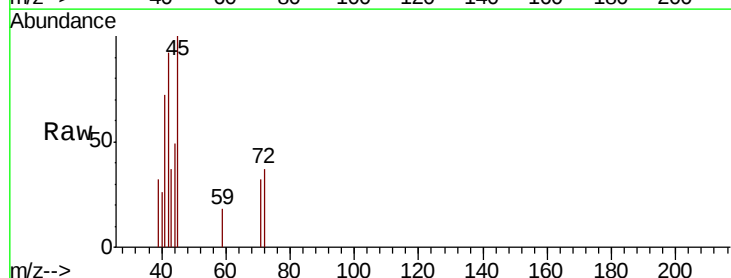
Tgt Ion: 42 Resp: 3731

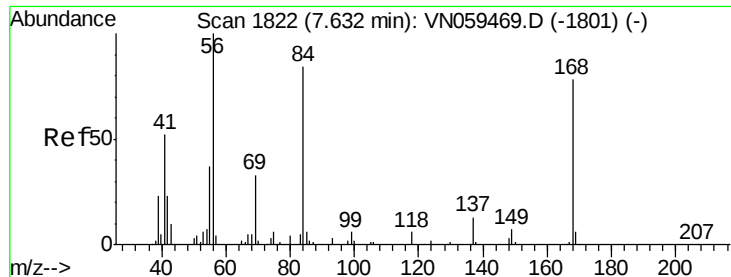
Ion Ratio Lower Upper

42 100

72 16.6 34.2 51.2#

71 26.8 32.0 48.0#

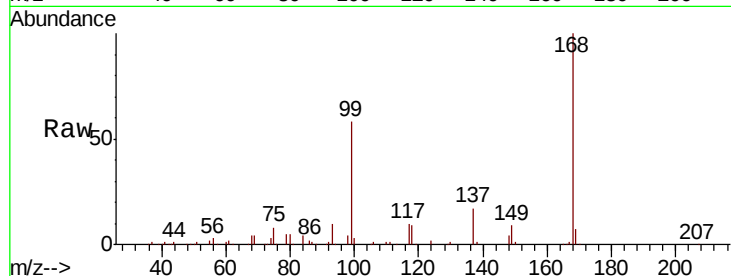




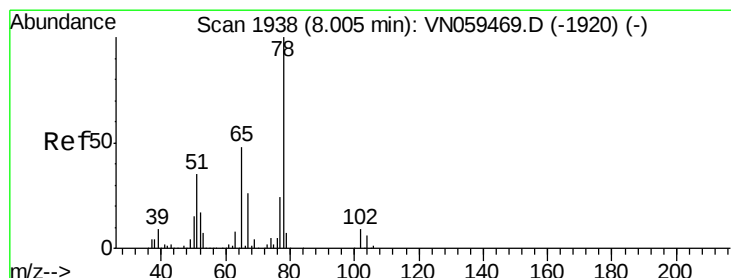
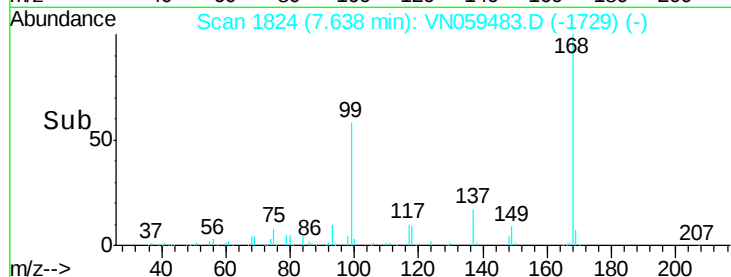
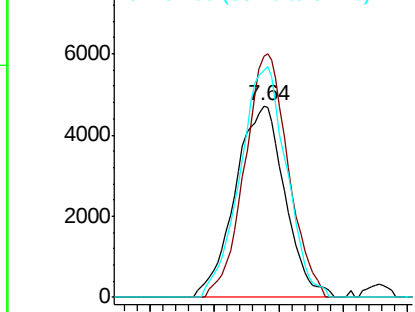
#31
Cyclohexane
Concen: 1.791 ug/l
RT: 7.64 min Scan# 1824
Delta R.T. 0.01 min
Lab File: VN059483.D
Acq: 4 Dec 2019 13:46

Instrument :
MSVOA_N
ClientSampled :
30735DL

Tot Ion: 56 Resp: 12647
Ion Ratio Lower Upper
56 100
69 125.7 26.2 39.4#
84 118.7 66.8 100.2#

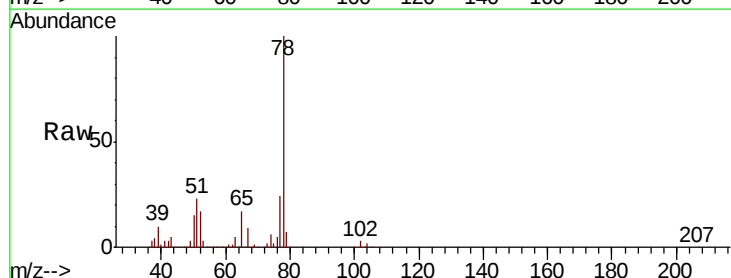


Abundance Ion 56.00 (55.70 to 56.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 84.00 (83.70 to 84.70): VNC

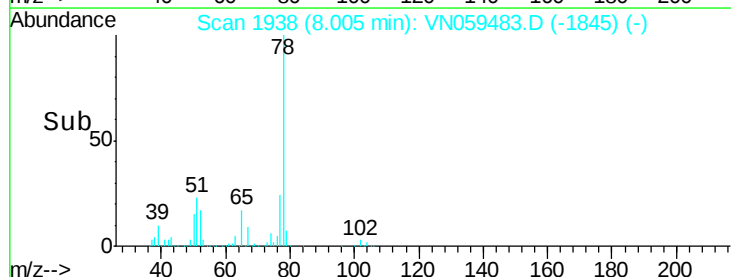
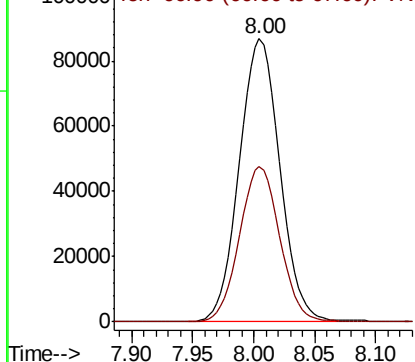


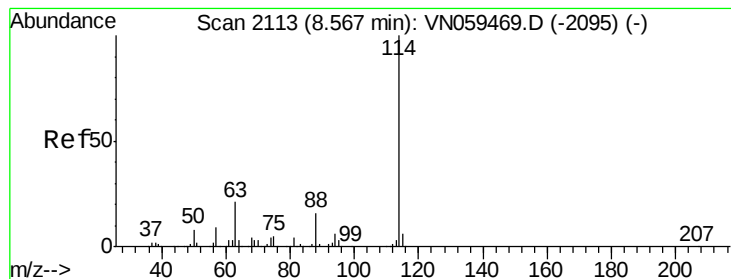
#33
1,2-Dichloroethane-d4
Concen: 47.713 ug/l
RT: 8.00 min Scan# 1938
Delta R.T. -0.00 min
Lab File: VN059483.D
Acq: 4 Dec 2019 13:46

Tgt Ion: 65 Resp: 200017
Ion Ratio Lower Upper
65 100
67 54.5 0.0 107.4



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





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2113

Delta R.T. -0.00 min

Lab File: VN059483.D

Acq: 4 Dec 2019 13:46

Instrument :

MSVOA_N

ClientSampleId :

30735DL

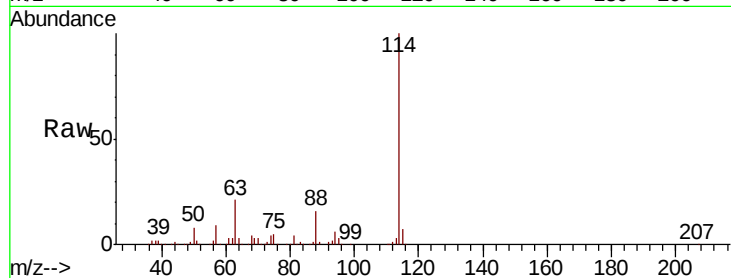
Tot Ion:114 Resp: 531770

Ion Ratio Lower Upper

114 100

63 21.2 0.0 42.4

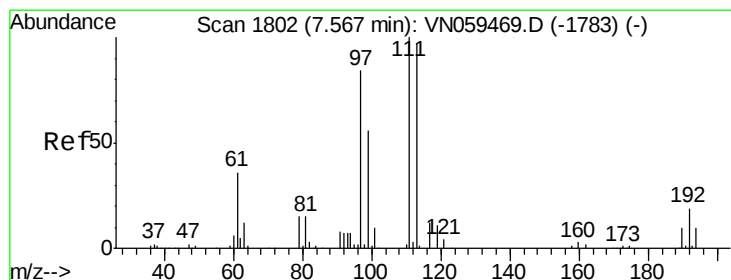
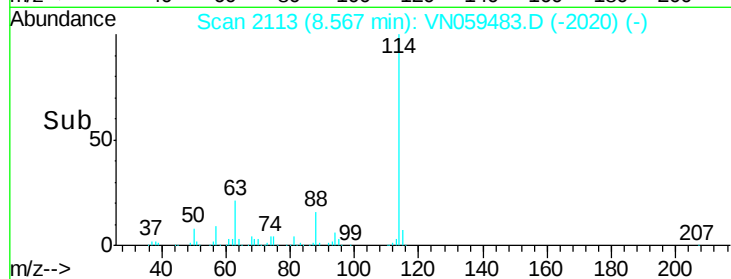
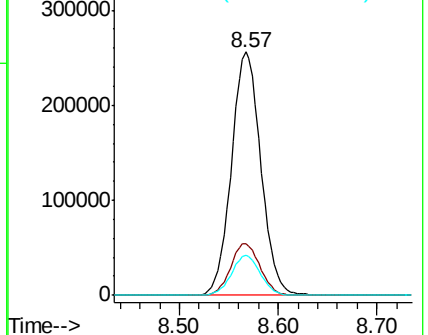
88 16.3 0.0 32.8



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: 48.202 ug/l

RT: 7.57 min Scan# 1802

Delta R.T. -0.00 min

Lab File: VN059483.D

Acq: 4 Dec 2019 13:46

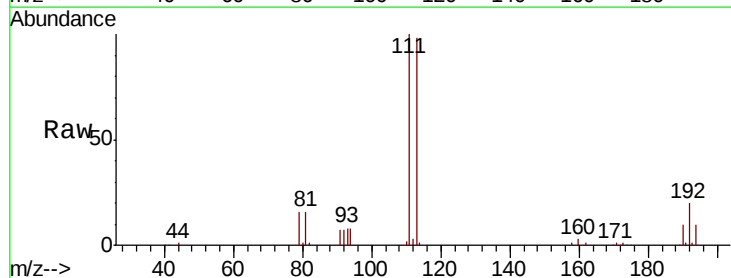
Tgt Ion:113 Resp: 159646

Ion Ratio Lower Upper

113 100

111 104.0 82.5 123.7

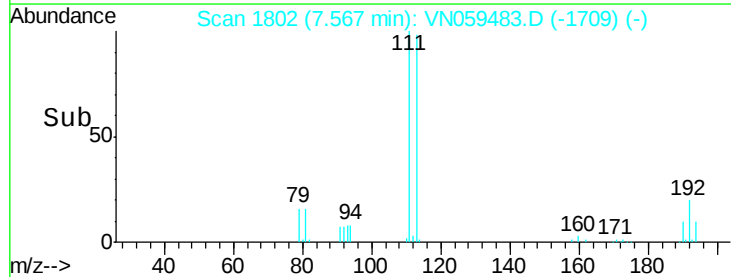
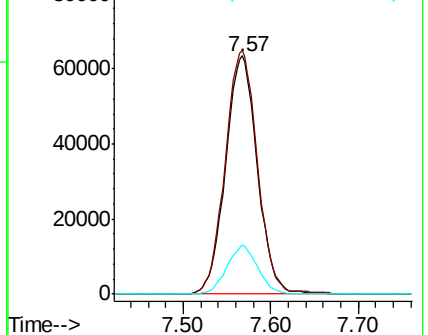
192 19.9 16.1 24.1

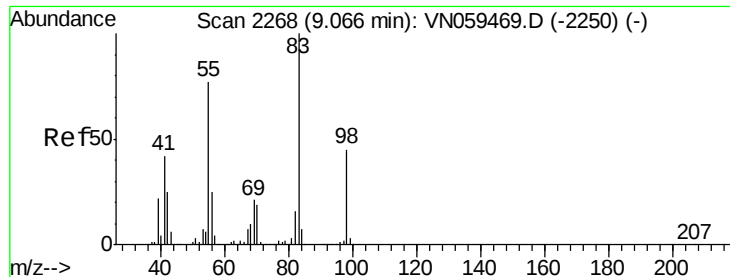


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

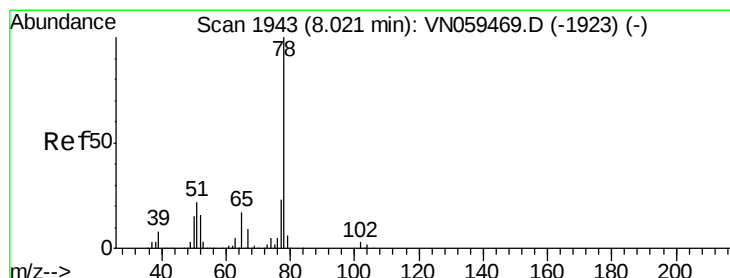
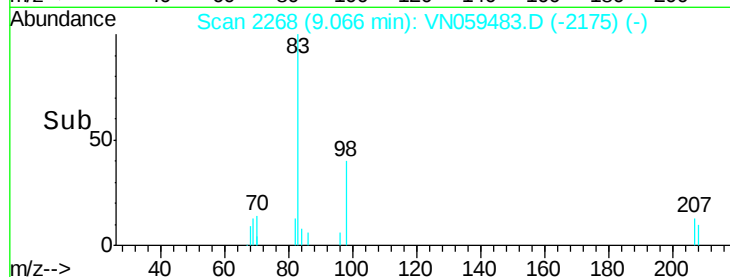
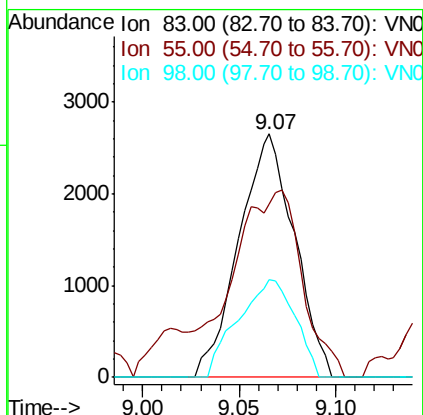
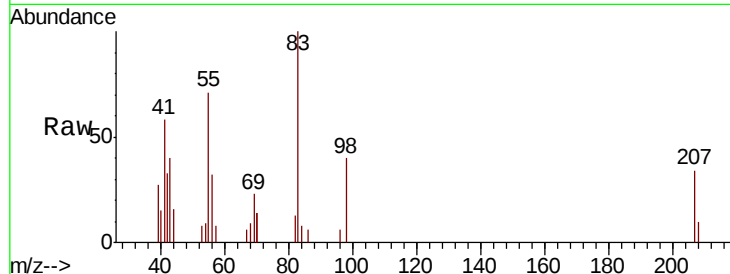




#39
Methvlcvclohexane
Concen: 0.794 ug/l
RT: 9.07 min Scan# 2268
Delta R.T. -0.00 min
Lab File: VN059483.D
Acq: 4 Dec 2019 13:46

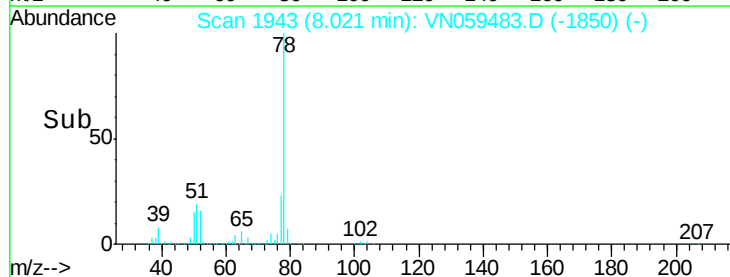
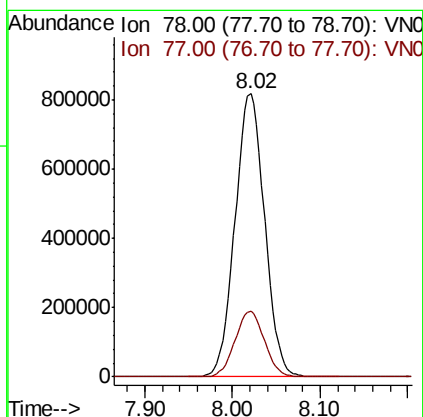
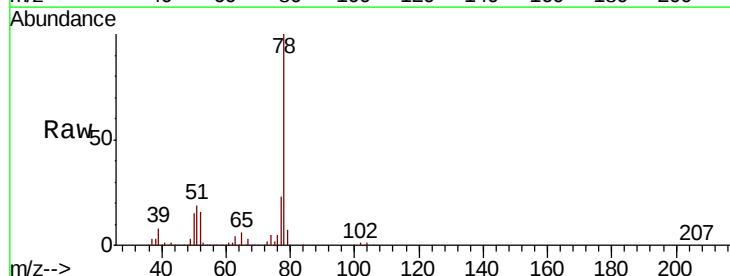
Instrument :
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30735DL

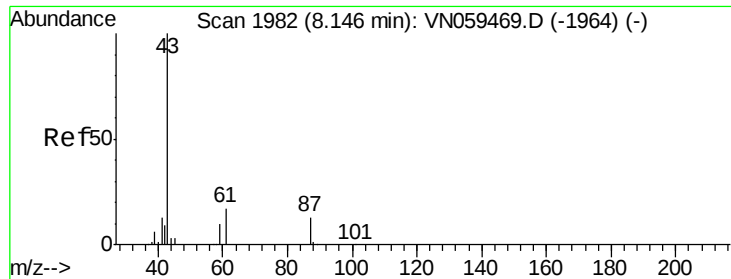
Tot Ion: 83 Resp: 5285
Ion Ratio Lower Upper
83 100
55 63.9 61.8 92.6
98 40.1 36.2 54.2



#40
Benzene
Concen: 118.588 ug/l
RT: 8.02 min Scan# 1943
Delta R.T. -0.00 min
Lab File: VN059483.D
Acq: 4 Dec 2019 13:46

Tgt Ion: 78 Resp: 1921679
Ion Ratio Lower Upper
78 100
77 23.2 18.2 27.2





#43

Isopropyl Acetate

Concen: 0.817 ug/l

RT: 8.14 min Scan# 1981

Delta R.T. -0.00 min

Lab File: VN059483.D

Acq: 4 Dec 2019 13:46

Instrument :

MSVOA_N

ClientSampleID :

30735DL

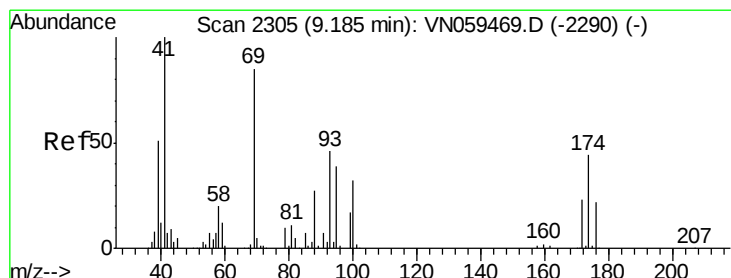
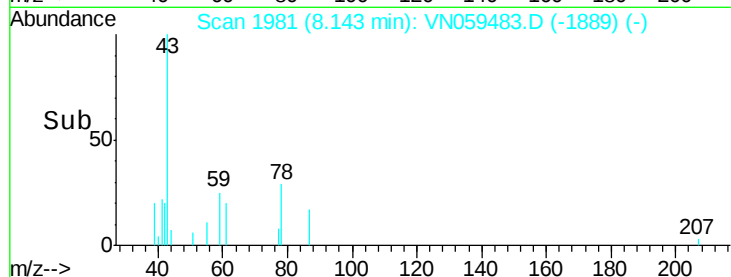
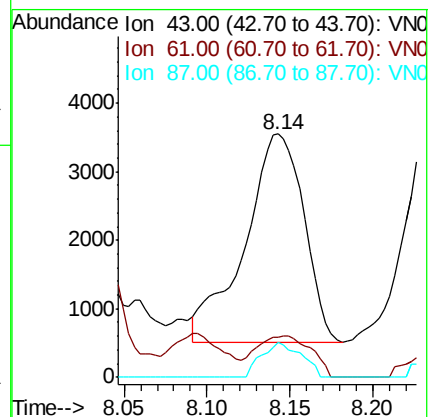
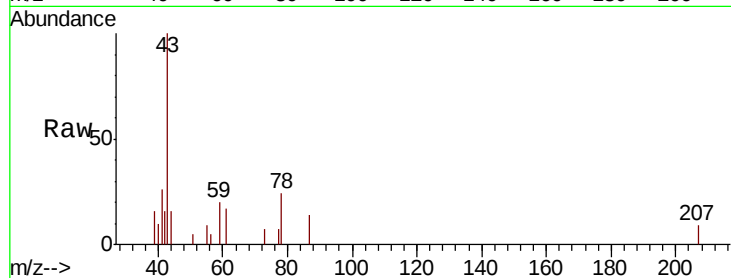
Tot Ion: 43 Resp: 7510

Ion Ratio Lower Upper

43 100

61 18.8 21.0 31.6#

87 11.3 10.4 15.6



#49

1,4-Dioxane

Concen: 125.348 ug/l

RT: 9.18 min Scan# 2304

Delta R.T. -0.00 min

Lab File: VN059483.D

Acq: 4 Dec 2019 13:46

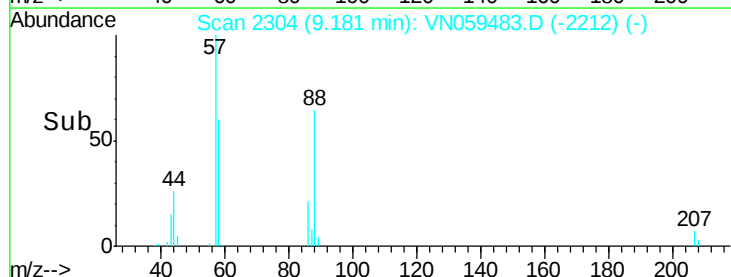
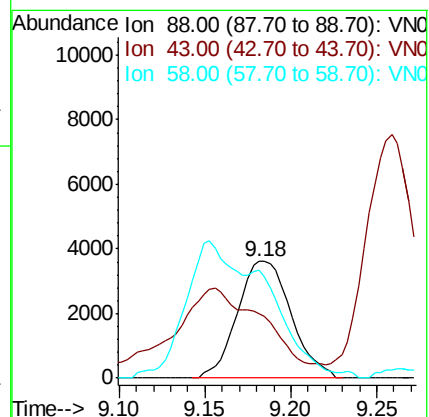
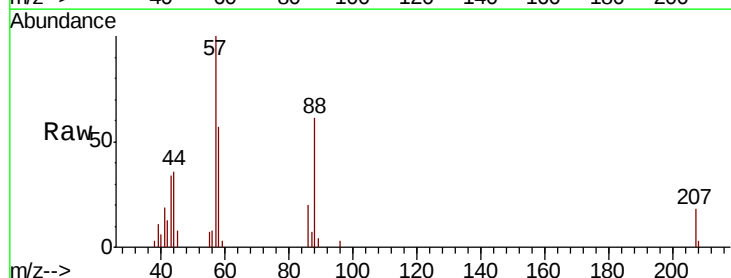
Tgt Ion: 88 Resp: 7867

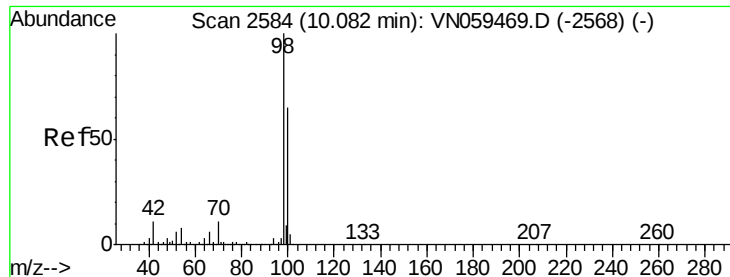
Ion Ratio Lower Upper

88 100

43 0.0 27.1 40.7#

58 0.0 57.8 86.6#





#50

Toluene-d8

Concen: 49.922 ug/l

RT: 10.08 min Scan# 2583

Delta R.T. -0.00 min

Lab File: VN059483.D

Acq: 4 Dec 2019 13:46

Instrument :

MSVOA_N

ClientSampleId :

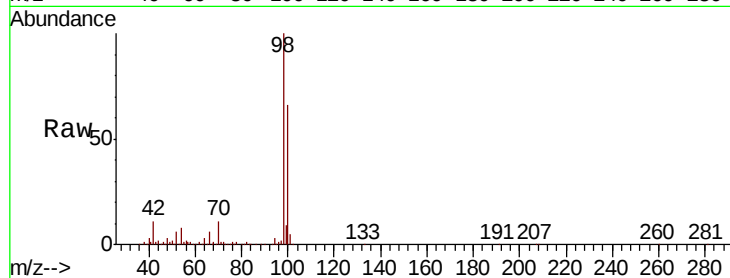
30735DL

Tot Ion: 98 Resp: 651907

Ion Ratio Lower Upper

98 100

100 65.0 52.1 78.1



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN

10.08

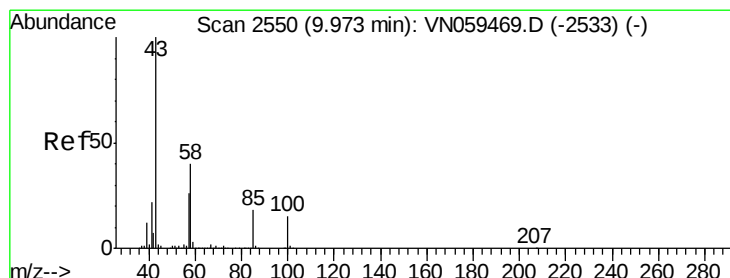
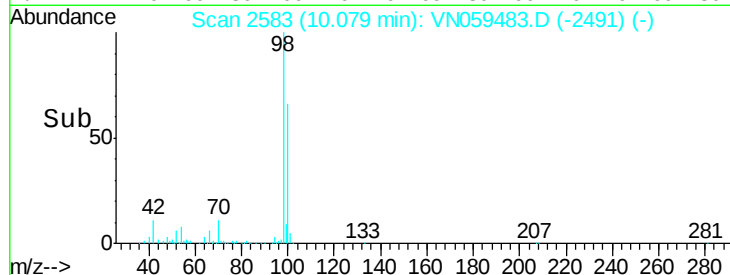
300000

200000

100000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 4.122 ug/l

RT: 9.97 min Scan# 2550

Delta R.T. -0.00 min

Lab File: VN059483.D

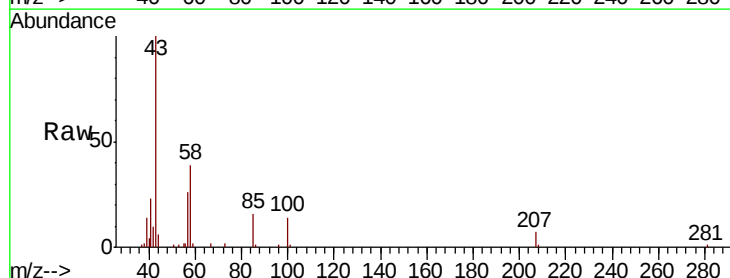
Acq: 4 Dec 2019 13:46

Tgt Ion: 43 Resp: 22494

Ion Ratio Lower Upper

43 100

58 40.6 32.1 48.1



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

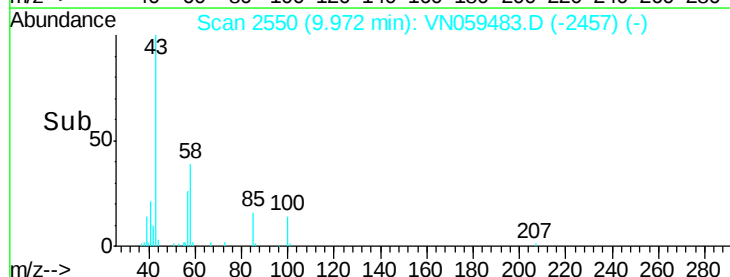
15000

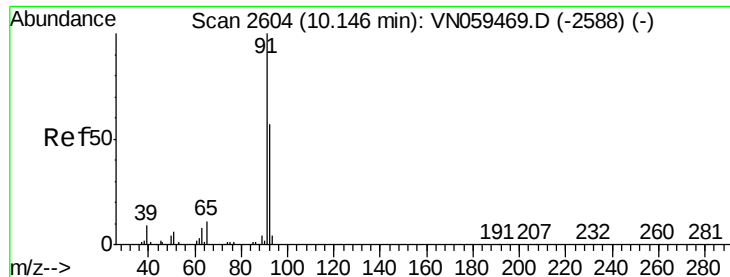
10000

5000

0

Time-->





#52

Toluene

Concen: 153.288 ug/l

RT: 10.15 min Scan# 2604

Delta R.T. -0.00 min

Lab File: VN059483.D

Acq: 4 Dec 2019 13:46

Instrument :

MSVOA_N

ClientSampled :

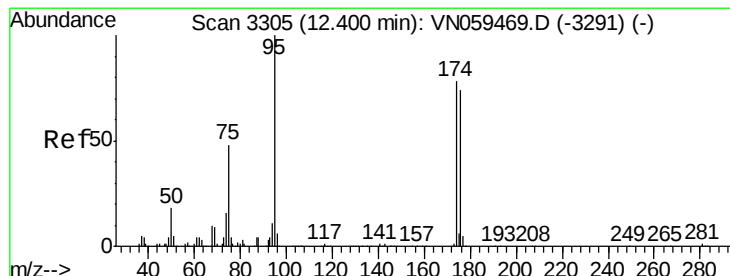
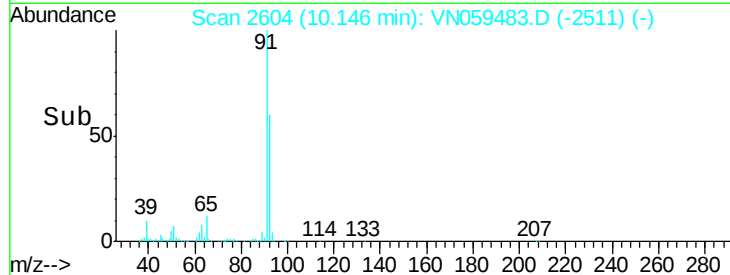
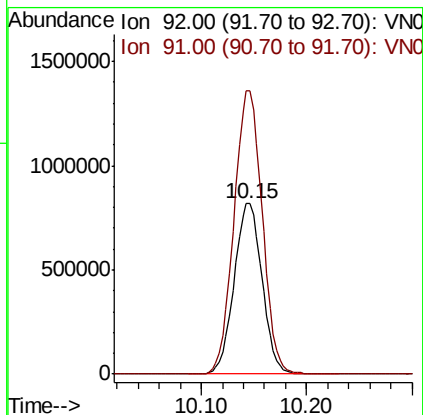
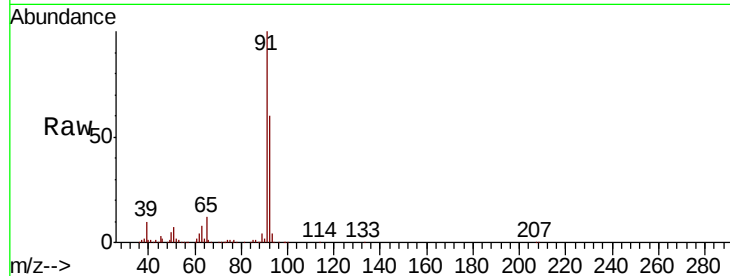
30735DL

Tot Ion: 92 Resp: 1502305

Ion Ratio Lower Upper

92 100

91 168.3 138.6 208.0



#62

4-Bromofluorobenzene

Concen: 50.544 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN059483.D

Acq: 4 Dec 2019 13:46

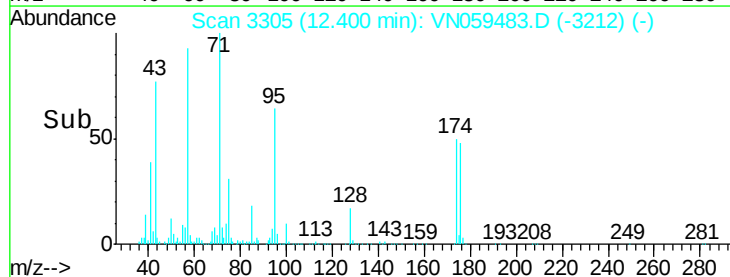
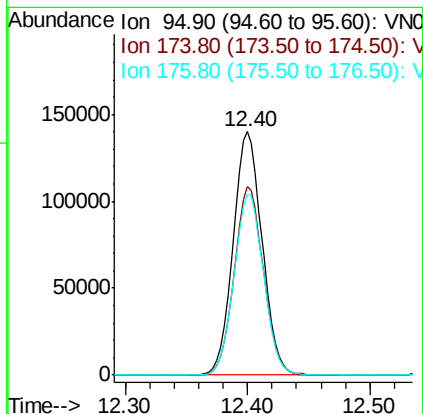
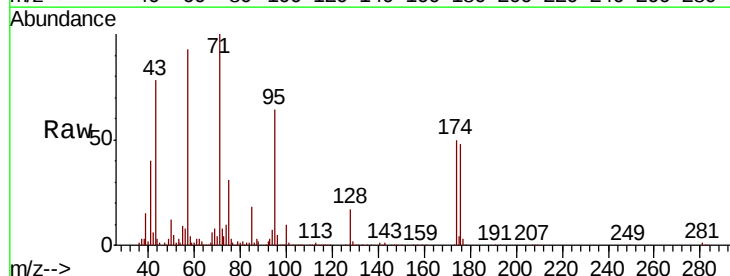
Tgt Ion: 95 Resp: 230503

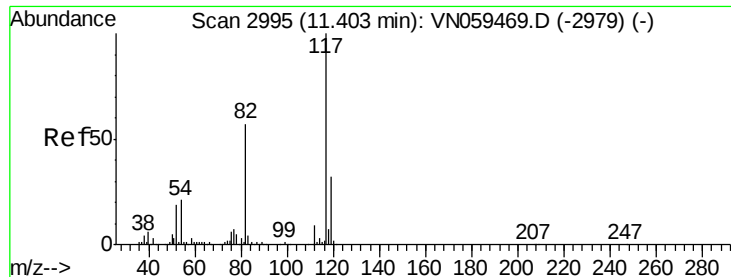
Ion Ratio Lower Upper

95 100

174 77.8 0.0 157.0

176 75.9 0.0 152.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2995

Delta R.T. -0.00 min

Lab File: VN059483.D

Acq: 4 Dec 2019 13:46

Instrument :

MSVOA_N

ClientSampleId :

30735DL

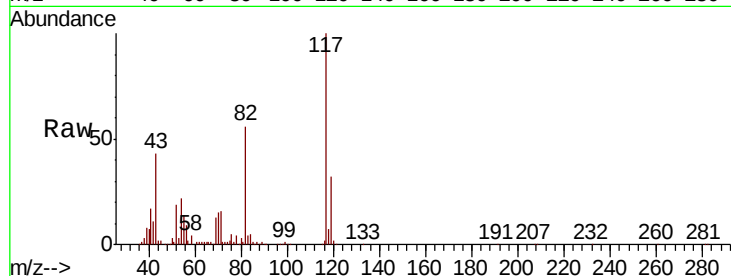
Tot Ion:117 Resp: 481626

Ion Ratio Lower Upper

117 100

82 56.3 45.8 68.8

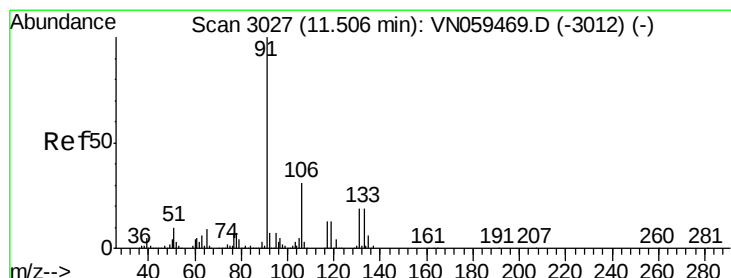
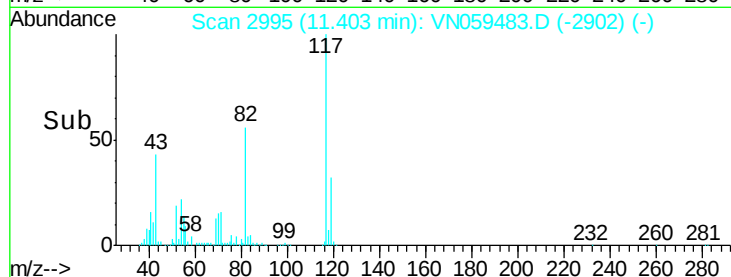
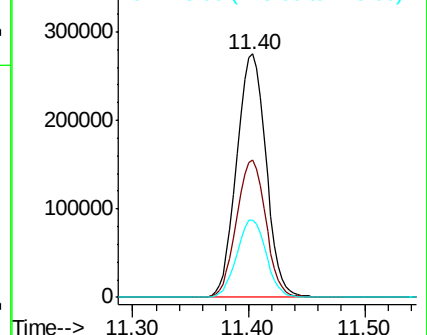
119 32.0 25.4 38.0



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



#67

Ethyl Benzene

Concen: 6.771 ug/l

RT: 11.51 min Scan# 3027

Delta R.T. -0.00 min

Lab File: VN059483.D

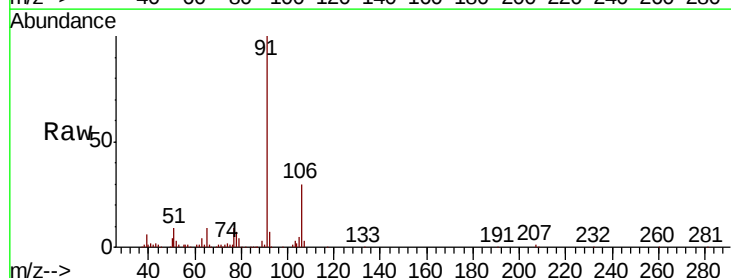
Acq: 4 Dec 2019 13:46

Tgt Ion: 91 Resp: 124907

Ion Ratio Lower Upper

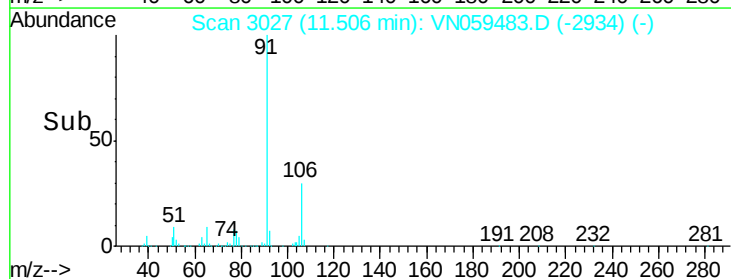
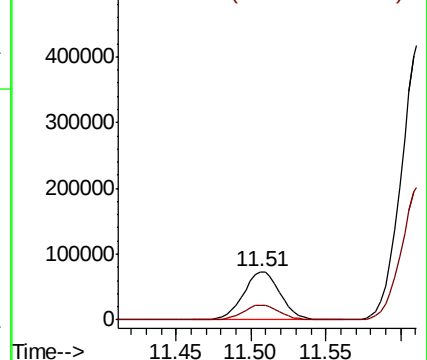
91 100

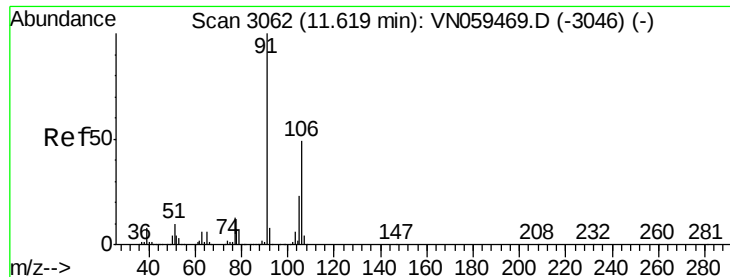
106 30.5 24.7 37.1



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 106.00 (105.70 to 106.70): V

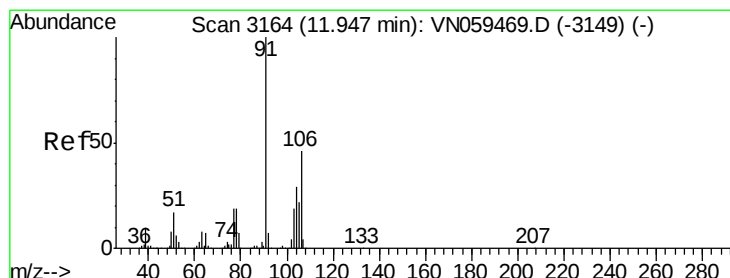
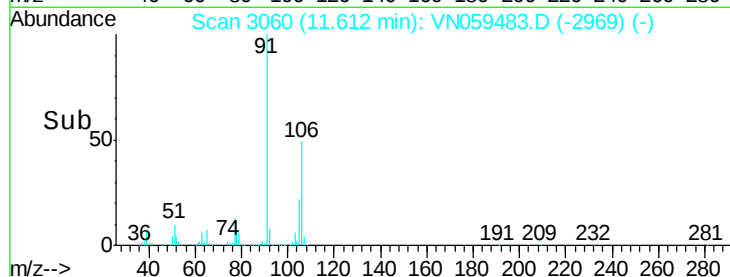
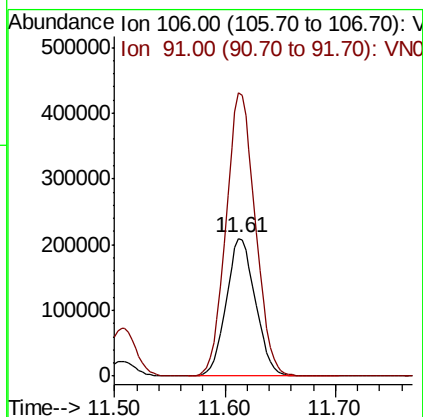
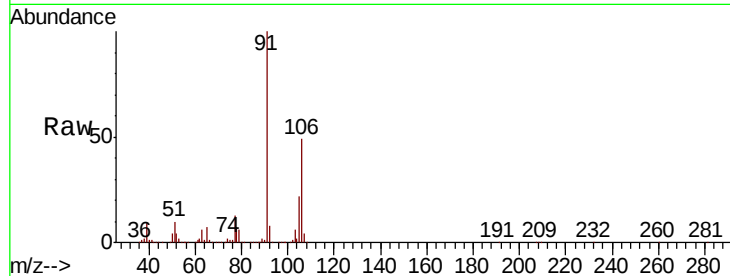




#68
m/p-Xylenes
Concen: 55.878 ug/l
RT: 11.61 min Scan# 3060
Delta R.T. -0.01 min
Lab File: VN059483.D
Acq: 4 Dec 2019 13:46

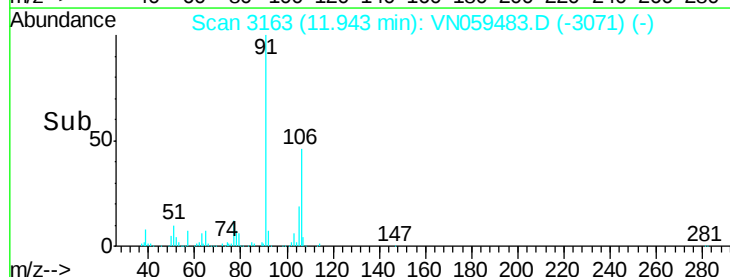
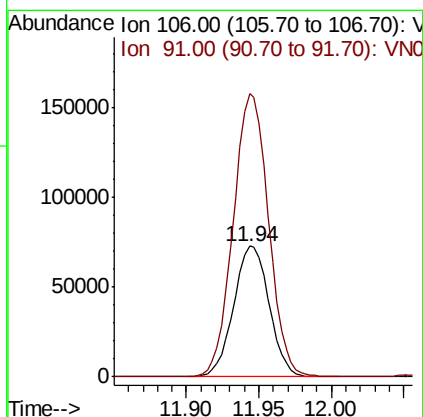
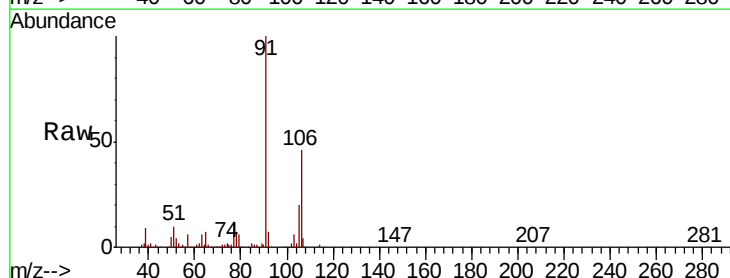
Instrument :
MSVOA_N
ClientSampled :
30735DL

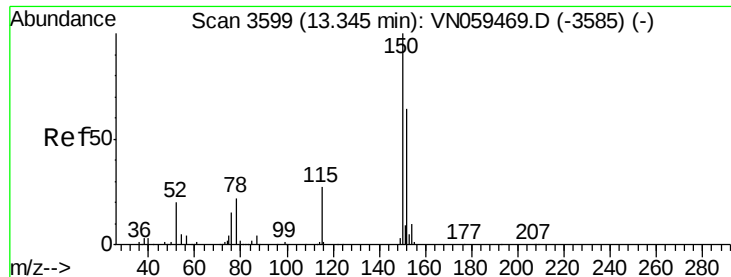
Tot Ion:106 Resp: 383817
Ion Ratio Lower Upper
106 100
91 205.9 162.2 243.4



#69
o-Xylene
Concen: 18.898 ug/l
RT: 11.94 min Scan# 3163
Delta R.T. -0.00 min
Lab File: VN059483.D
Acq: 4 Dec 2019 13:46

Tgt Ion:106 Resp: 123585
Ion Ratio Lower Upper
106 100
91 216.2 108.5 325.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. -0.00 min

Lab File: VN059483.D

Acq: 4 Dec 2019 13:46

Instrument :

MSVOA_N

ClientSampleId :

30735DL

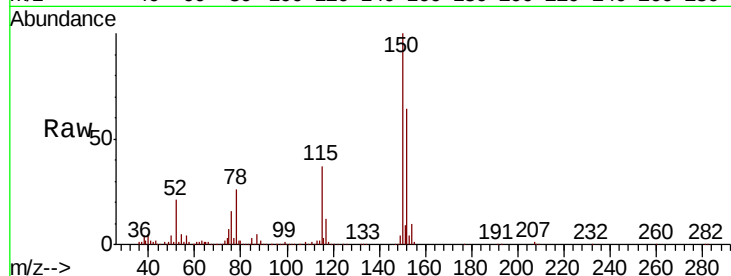
Tot Ion:152 Resp: 206414

Ion Ratio Lower Upper

152 100

115 59.2 29.2 87.6

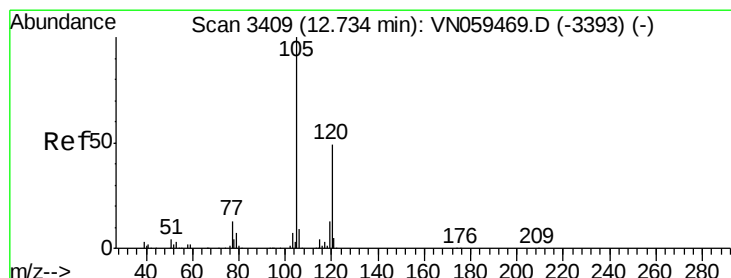
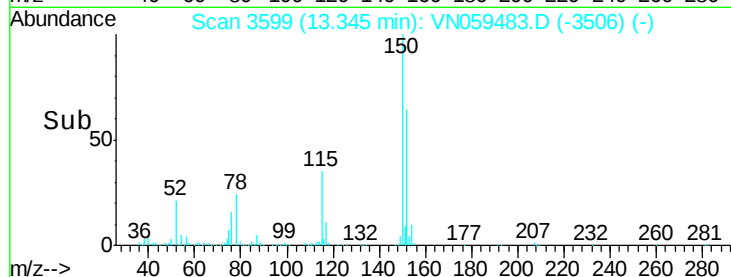
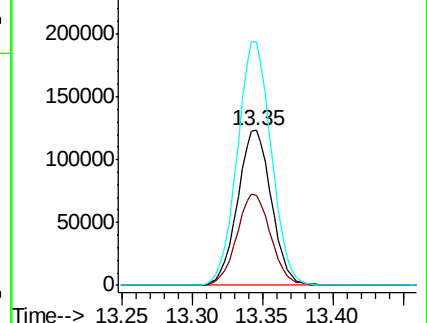
150 158.8 0.0 352.8



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



#80

1,3,5-Trimethylbenzene

Concen: 5.363 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. -0.00 min

Lab File: VN059483.D

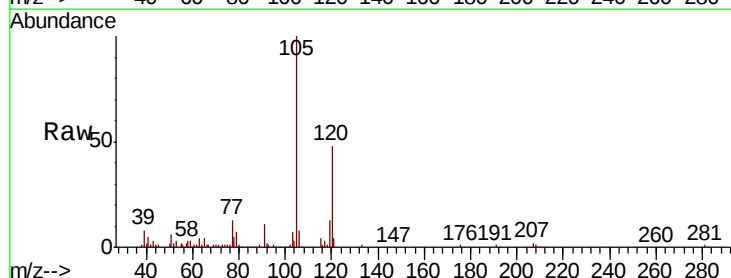
Acq: 4 Dec 2019 13:46

Tgt Ion:105 Resp: 74193

Ion Ratio Lower Upper

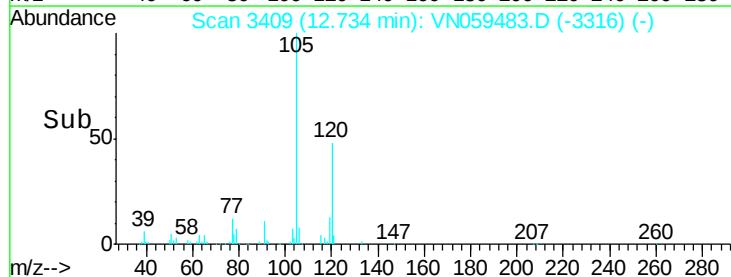
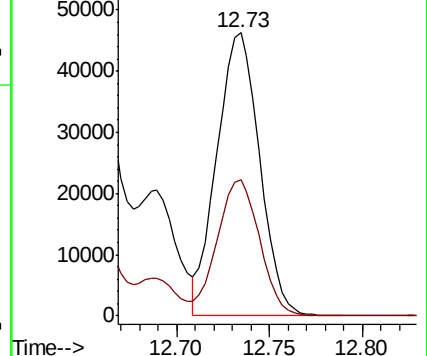
105 100

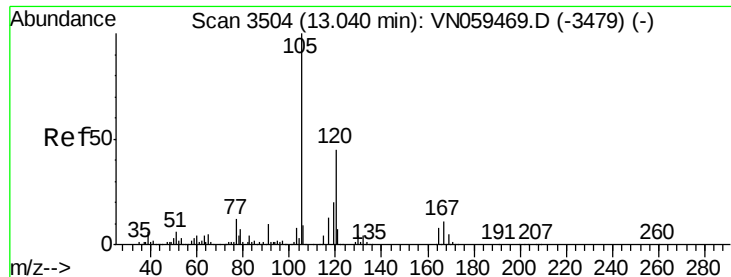
120 47.8 24.3 73.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#84

1,2,4-Trimethylbenzene

Concen: 9.740 ug/l

RT: 13.04 min Scan# 3504

Delta R.T. -0.00 min

Lab File: VN059483.D

Acq: 4 Dec 2019 13:46

Instrument :

MSVOA_N

ClientSampleId :

30735DL

Tot Ion:105 Resp: 131682

Ion Ratio Lower Upper

105 100

120 44.0 22.6 67.8

