

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111819\
 Data File : VN059294.D
 Acq On : 18 Nov 2019 19:02
 Operator : JC/SP
 Sample : K5900-18 5X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 30726

Quant Time: Nov 19 08:54:17 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	7.65	168	517875	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	812150	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	720389	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	346466	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.01	65	294540	46.27	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.54%	
35) Dibromofluoromethane	7.57	113	239934	49.48	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.96%	
50) Toluene-d8	10.08	98	992238	51.95	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.90%	
62) 4-Bromofluorobenzene	12.40	95	352988	51.25	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.50%	

Target Compounds

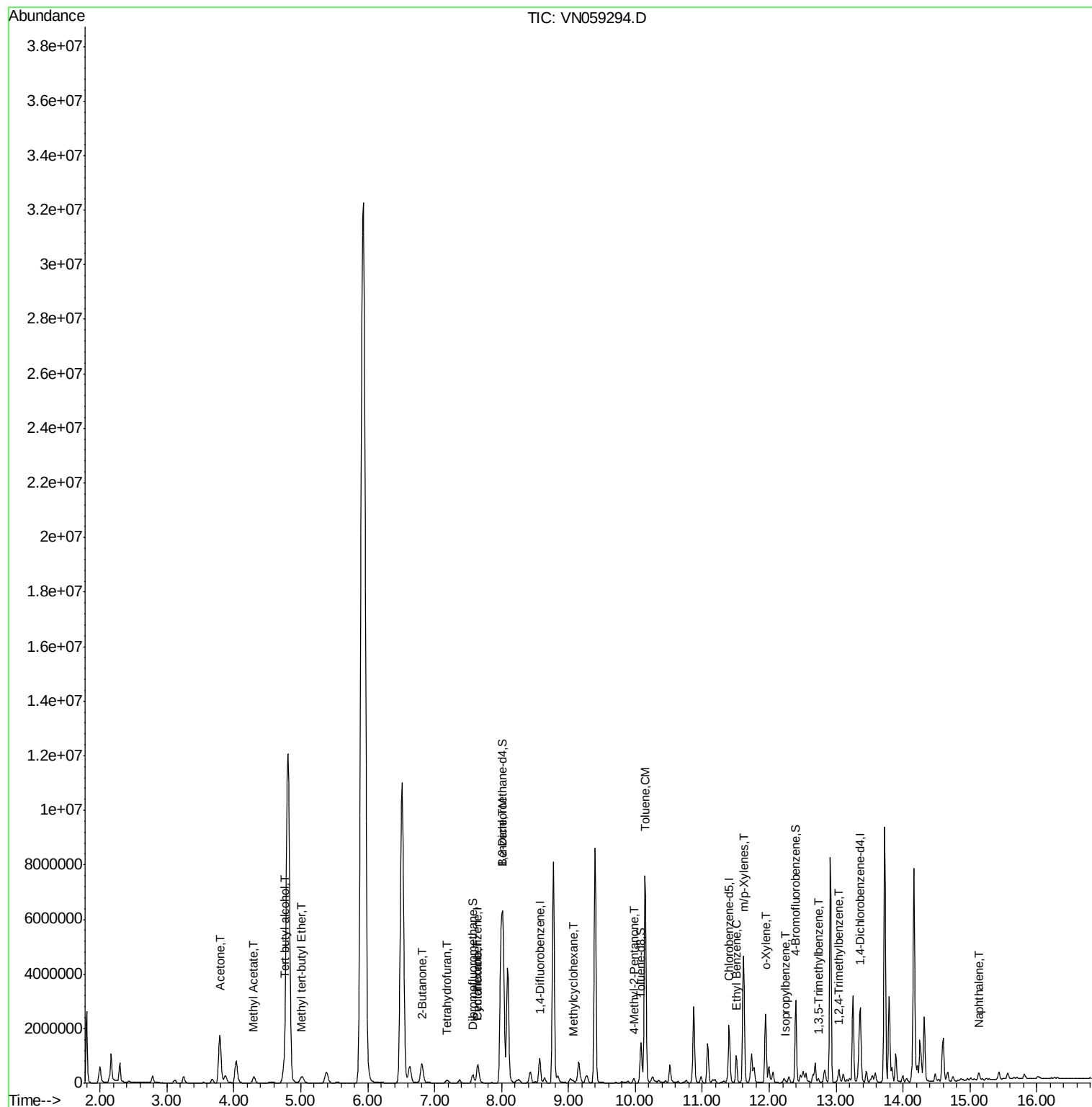
						Qvalue
11) Tert butyl alcohol	4.75	59	1007638	830.545	ug/l #	72
16) Acetone	3.79	43	2930325	885.173	ug/l	97
18) Methyl Acetate	4.30	43	433292	55.143	ug/l	98
19) Methyl tert-butyl Ether	5.01	73	382091	22.973	ug/l #	90
25) 2-Butanone	6.81	43	1264894	289.915	ug/l	97
29) Tetrahydrofuran	7.19	42	72786	26.255	ug/l	97
31) Cyclohexane	7.63	56	51206	5.167	ug/l #	77
39) Methylcyclohexane	9.07	83	41549	4.716	ug/l	97
40) Benzene	8.02	78	5590981	244.576	ug/l #	90
51) 4-Methyl-2-Pentanone	9.98	43	107600	14.124	ug/l	94
52) Toluene	10.15	92	3907873	285.214	ug/l	76
67) Ethyl Benzene	11.51	91	754235	30.271	ug/l	99
68) m/p-Xylenes	11.62	106	1553078	166.404	ug/l	95
69) o-Xylene	11.95	106	682156	75.631	ug/l	98
73) Isopropylbenzene	12.25	105	27857	1.105	ug/l	100
80) 1,3,5-Trimethylbenzene	12.73	105	85056	3.983	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	286966	13.889	ug/l	97
95) Naphthalene	15.13	128	188300	12.894	ug/l	99

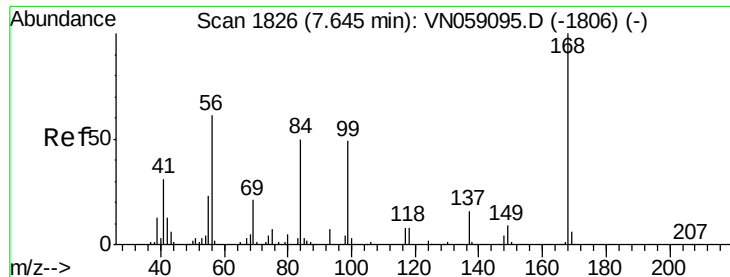
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. 0.00 min

Lab File: VN059294.D

Acq: 18 Nov 2019 19:02

Instrument :

MSVOA_N

ClientSampleId :

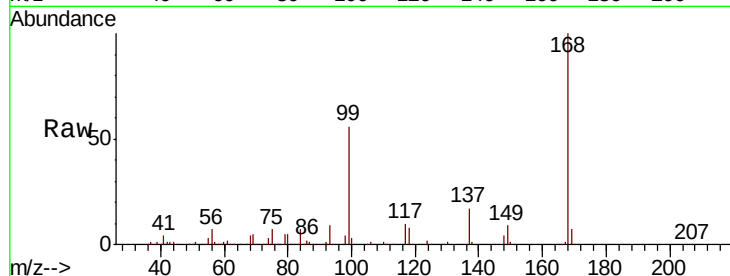
30726

Tot Ion:168 Resp: 517875

Ion Ratio Lower Upper

168 100

99 55.9 45.7 68.5



Abundance Ion 167.90 (167.60 to 168.60): VN059095.D (-1806) (-)

Ion 98.90 (98.60 to 99.60): VN059095.D (-1806) (-)

7.65

250000

200000

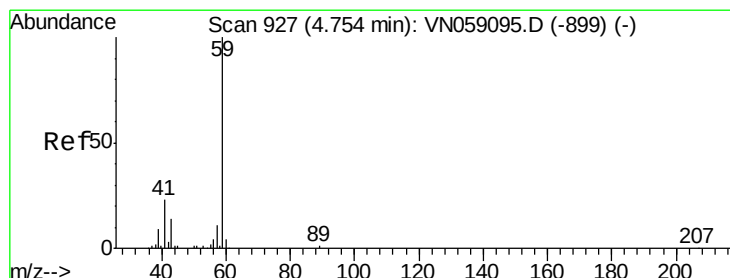
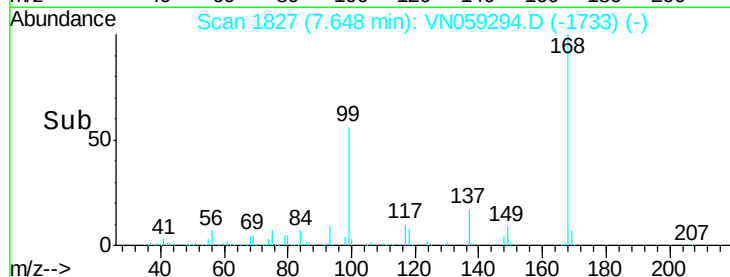
150000

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 830.545 ug/l

RT: 4.75 min Scan# 927

Delta R.T. -0.00 min

Lab File: VN059294.D

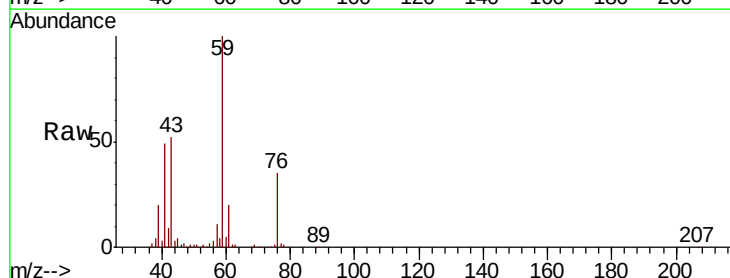
Acq: 18 Nov 2019 19:02

Tgt Ion: 59 Resp: 1007638

Ion Ratio Lower Upper

59 100

57 0.0 8.3 12.5#



Abundance Ion 59.00 (58.70 to 59.70): VN059095.D (-899) (-)

Ion 57.00 (56.70 to 57.70): VN059095.D (-899) (-)

500000

400000

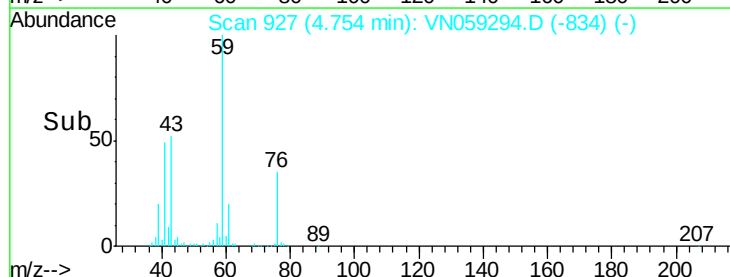
300000

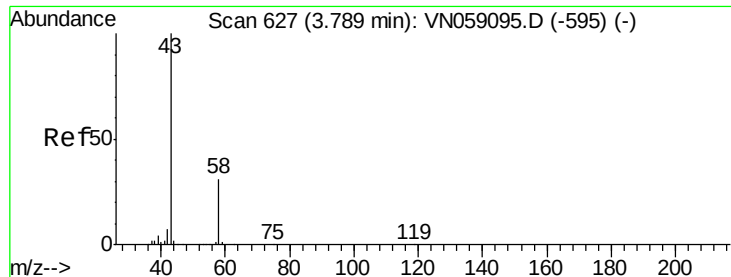
200000

100000

0

Time-->





#16

Acetone

Concen: 885.173 ug/l

RT: 3.79 min Scan# 627

Delta R.T. -0.00 min

Lab File: VN059294.D

Acq: 18 Nov 2019 19:02

Instrument :

MSVOA_N

ClientSampled :

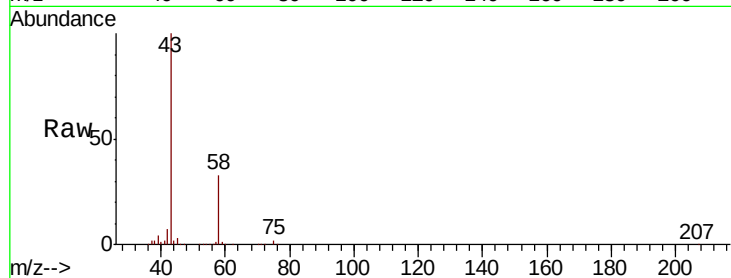
30726

Tot Ion: 43 Resp: 2930325

Ion Ratio Lower Upper

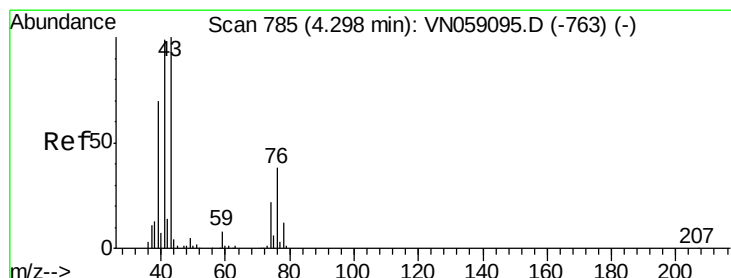
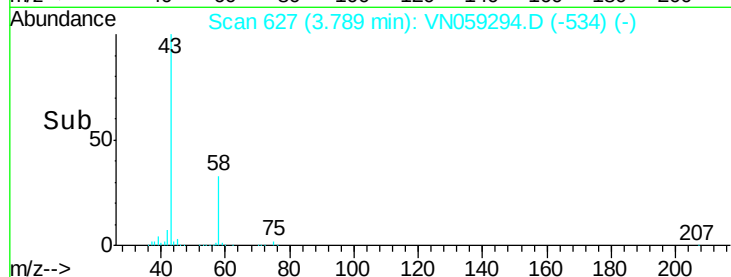
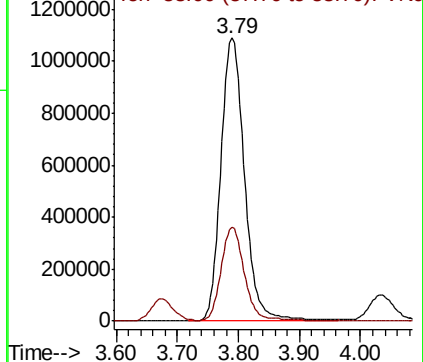
43 100

58 33.0 24.9 37.3



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: 55.143 ug/l

RT: 4.30 min Scan# 785

Delta R.T. -0.00 min

Lab File: VN059294.D

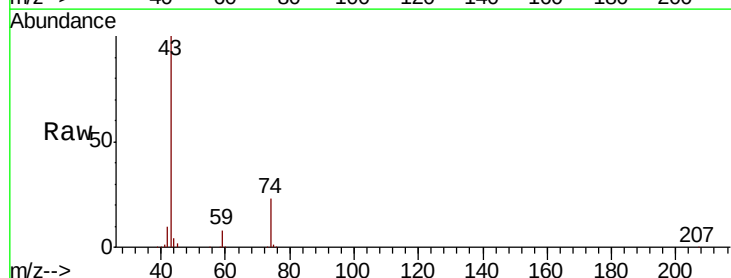
Acq: 18 Nov 2019 19:02

Tgt Ion: 43 Resp: 433292

Ion Ratio Lower Upper

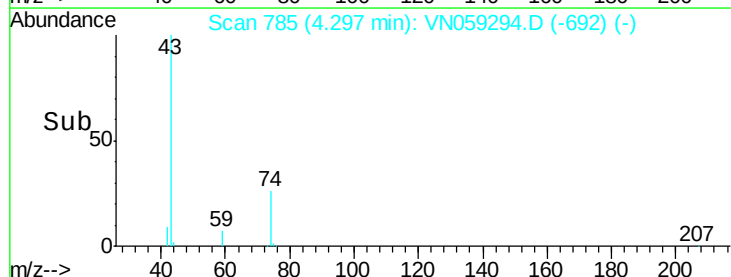
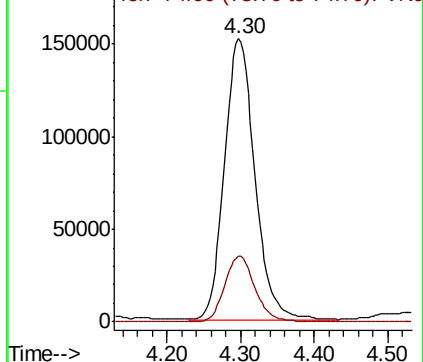
43 100

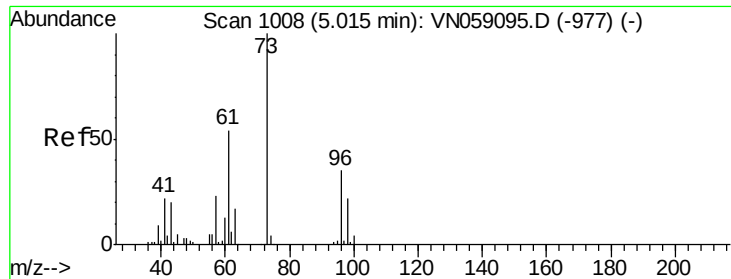
74 23.5 17.8 26.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

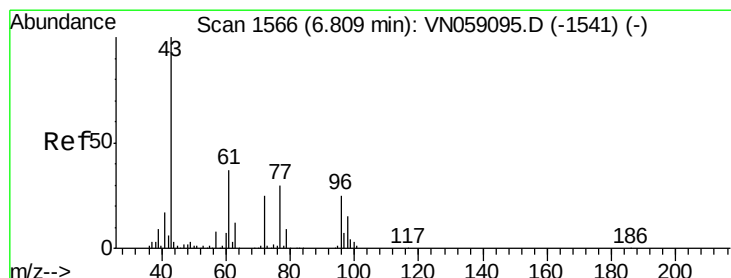
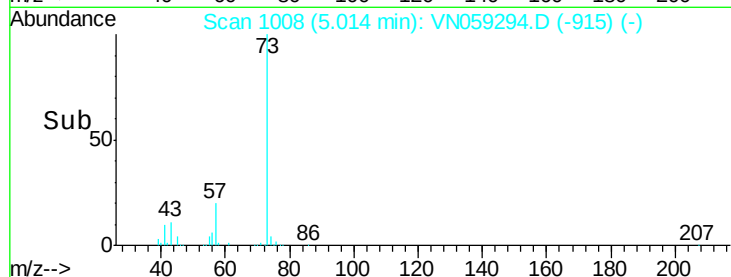
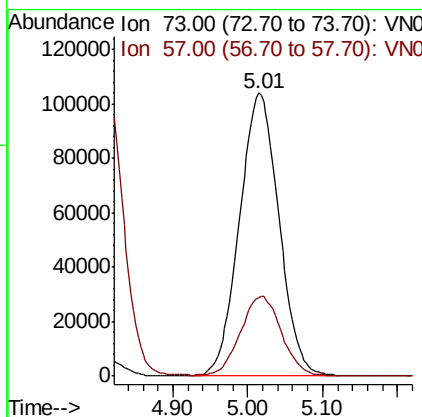
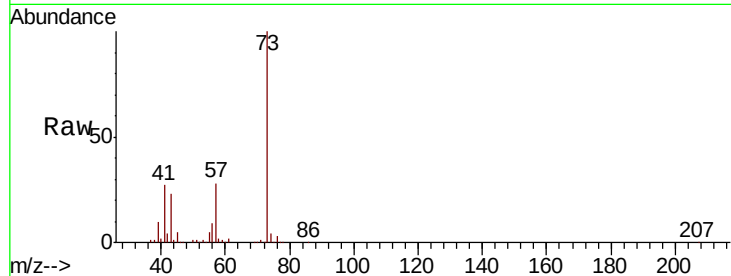




#19
Methyl tert-butyl Ether
Concen: 22.973 ug/l
RT: 5.01 min Scan# 1008
Delta R.T. -0.00 min
Lab File: VN059294.D
Acq: 18 Nov 2019 19:02

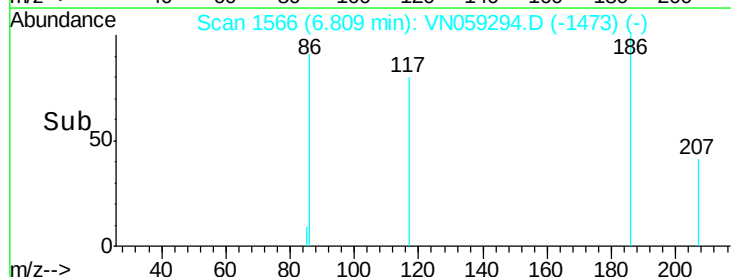
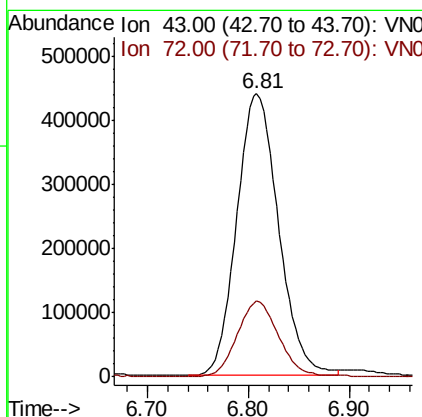
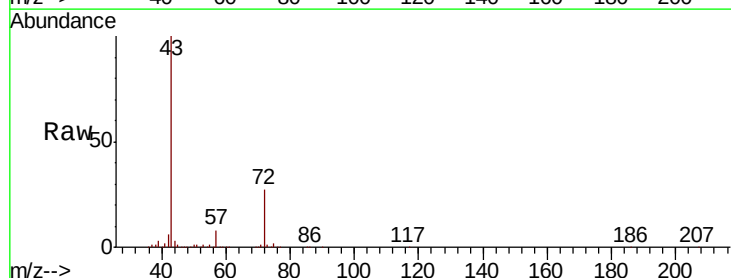
Instrument :
MSVOA_N
ClientSampled :
30726

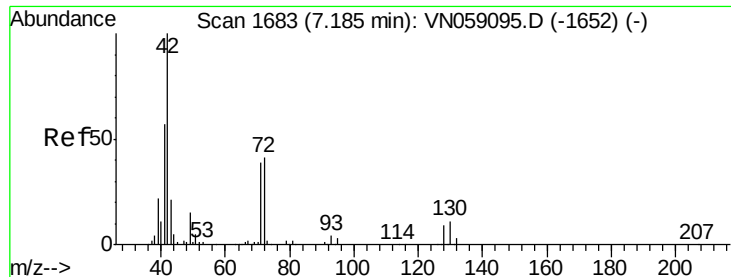
Tot Ion: 73 Resp: 382091
Ion Ratio Lower Upper
73 100
57 27.8 18.4 27.6#



#25
2-Butanone
Concen: 289.915 ug/l
RT: 6.81 min Scan# 1566
Delta R.T. -0.00 min
Lab File: VN059294.D
Acq: 18 Nov 2019 19:02

Tgt Ion: 43 Resp: 1264894
Ion Ratio Lower Upper
43 100
72 26.7 20.3 30.5

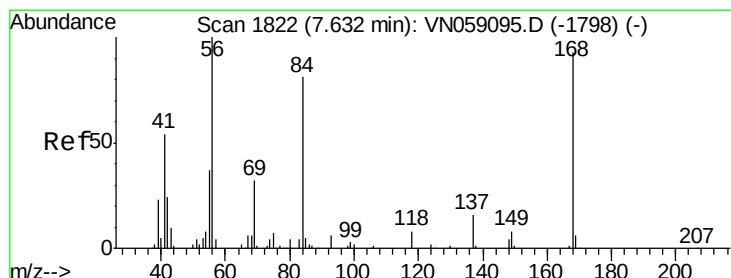
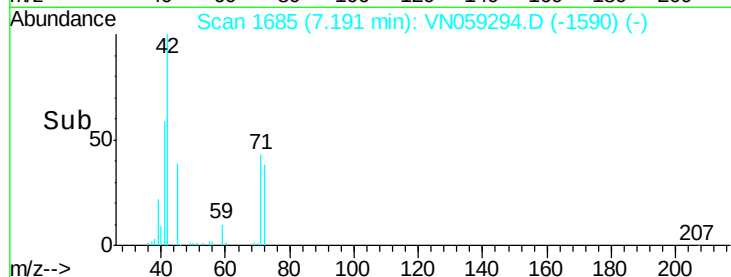
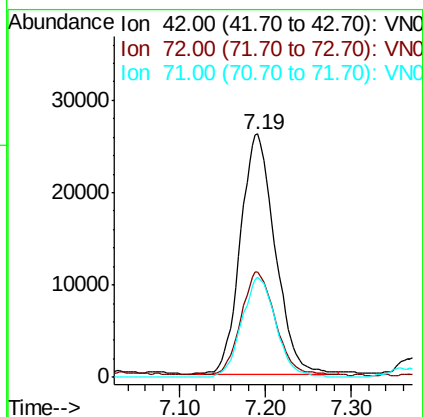
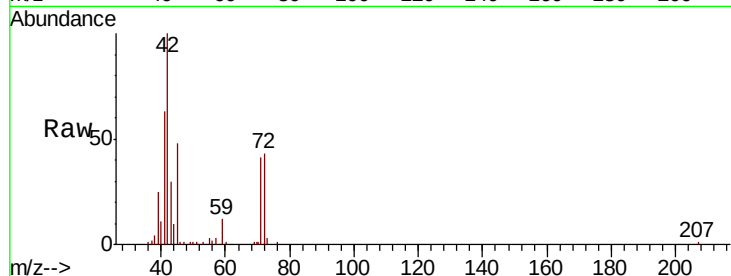




#29
Tetrahydrofuran
Concen: 26.255 ug/l
RT: 7.19 min Scan# 1685
Delta R.T. 0.01 min
Lab File: VN059294.D
Acq: 18 Nov 2019 19:02

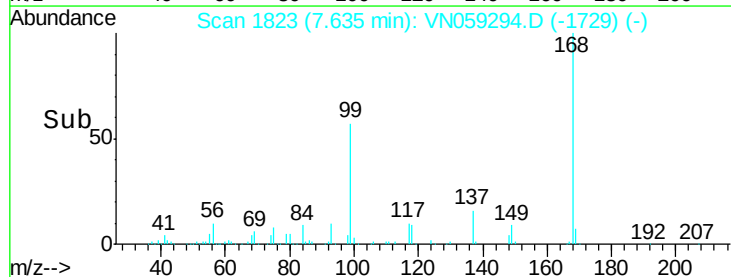
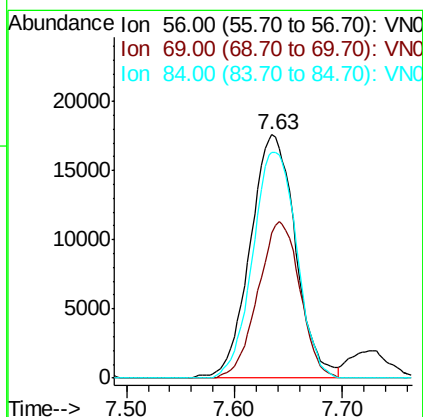
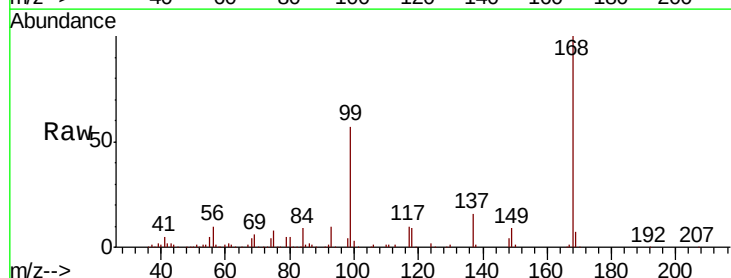
Instrument :
MSVOA_N
ClientSampleId :
30726

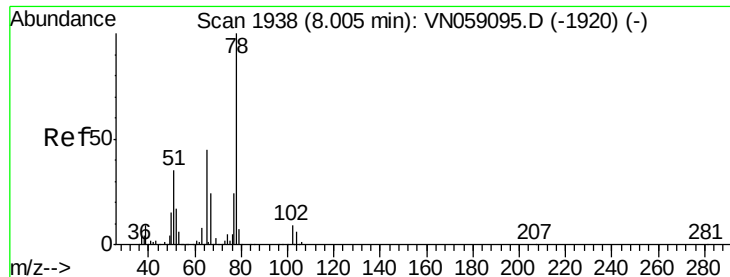
Tot Ion: 42 Resp: 72786
Ion Ratio Lower Upper
42 100
72 42.2 33.1 49.7
71 41.0 30.9 46.3



#31
Cyclohexane
Concen: 5.167 ug/l
RT: 7.63 min Scan# 1823
Delta R.T. 0.00 min
Lab File: VN059294.D
Acq: 18 Nov 2019 19:02

Tgt Ion: 56 Resp: 51206
Ion Ratio Lower Upper
56 100
69 59.5 25.8 38.8#
84 92.5 65.0 97.4

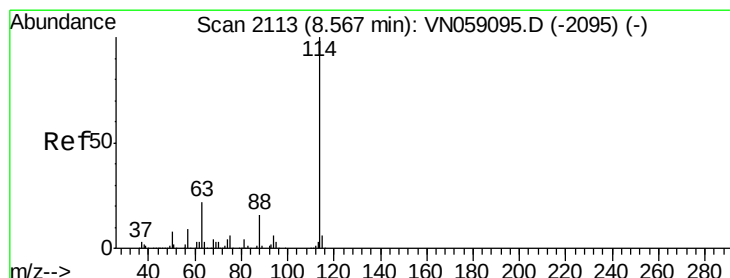
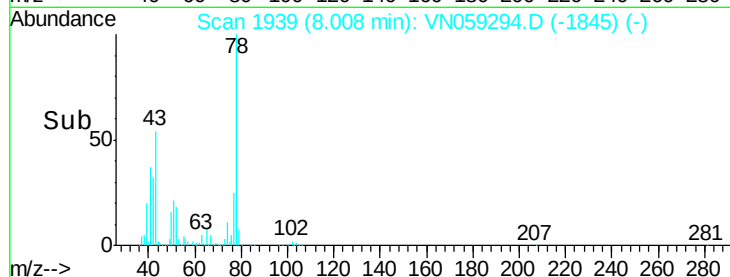
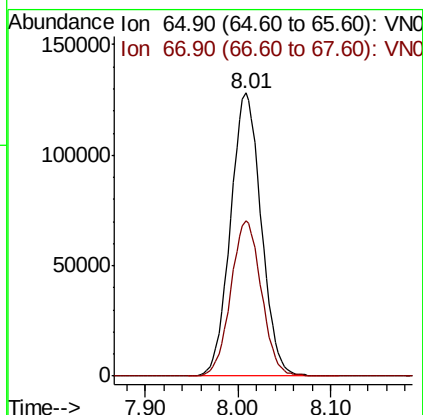
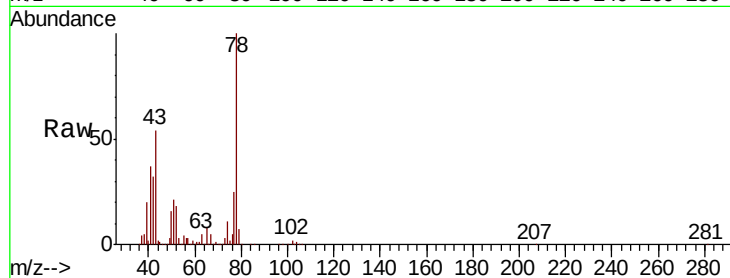




#33
 1,2-Dichloroethane-d4
 Concen: 46.268 ug/l
 RT: 8.01 min Scan# 1939
 Delta R.T. 0.00 min
 Lab File: VN059294.D
 Acq: 18 Nov 2019 19:02

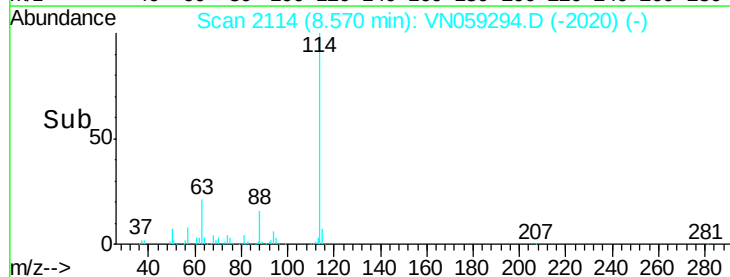
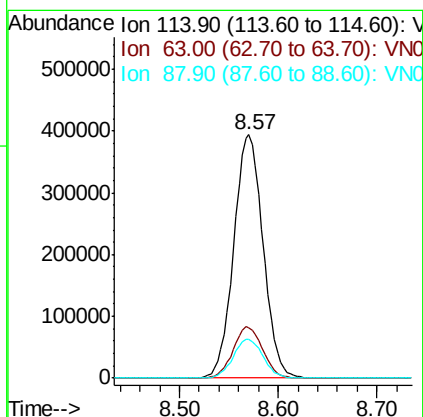
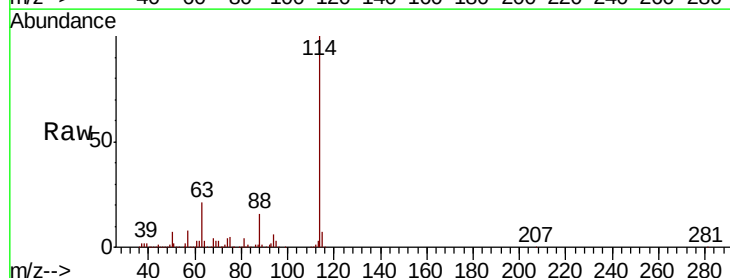
Instrument :
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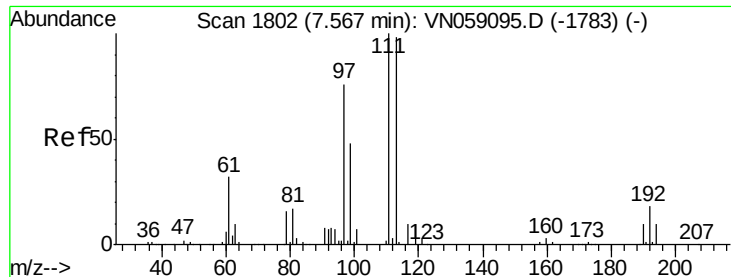
Tot Ion: 65 Resp: 294540
 Ion Ratio Lower Upper
 65 100
 67 54.6 0.0 107.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2114
 Delta R.T. 0.00 min
 Lab File: VN059294.D
 Acq: 18 Nov 2019 19:02

Tgt Ion: 114 Resp: 812150
 Ion Ratio Lower Upper
 114 100
 63 20.9 0.0 43.4
 88 15.7 0.0 32.2

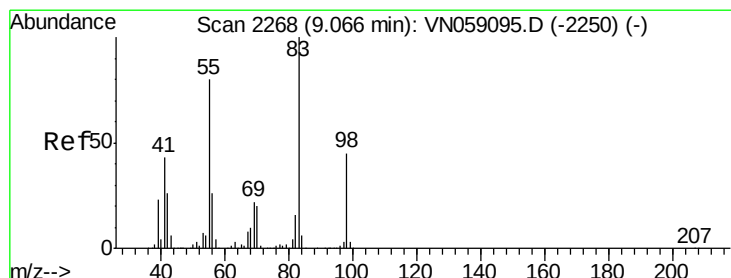
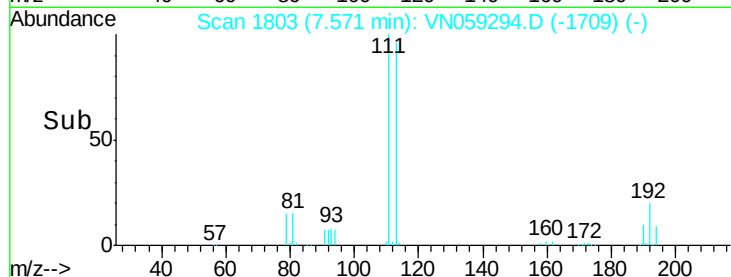
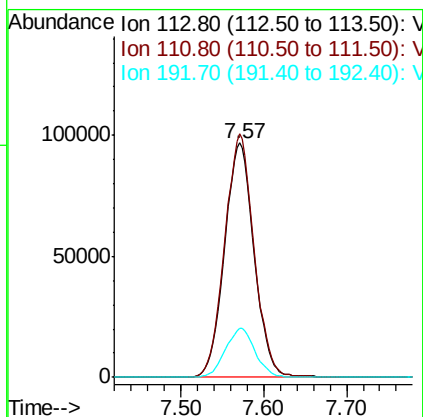
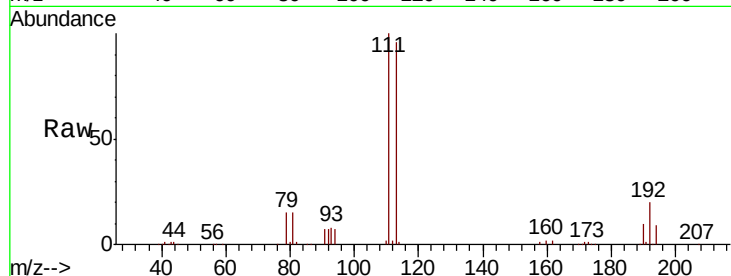




#35
Dibromofluoromethane
Concen: 49.478 ug/l
RT: 7.57 min Scan# 1803
Delta R.T. 0.00 min
Lab File: VN059294.D
Acq: 18 Nov 2019 19:02

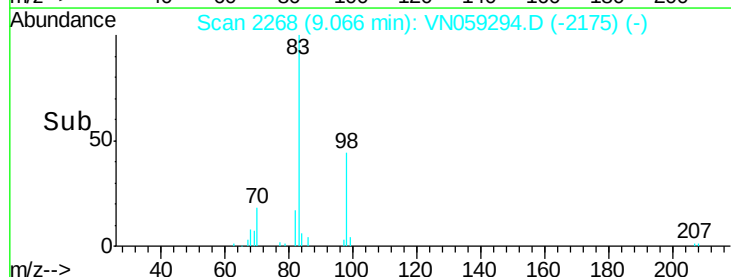
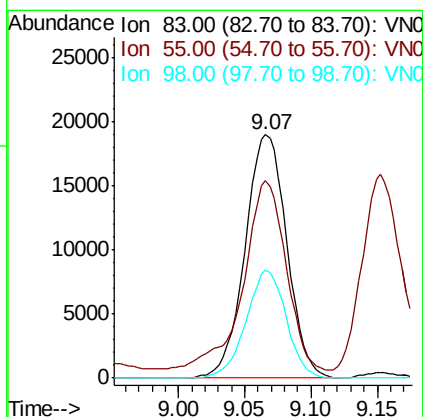
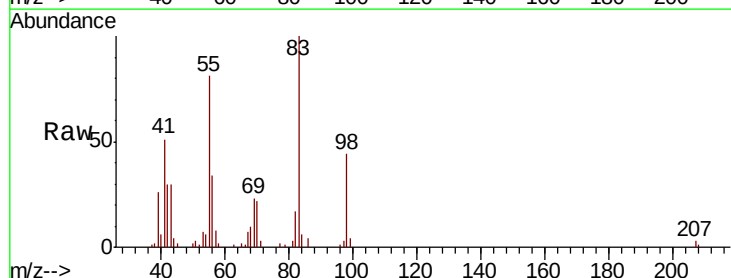
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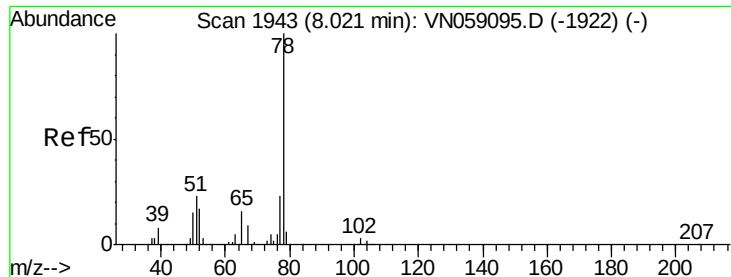
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.2	82.8	124.2
192	20.9	16.1	24.1



#39
Methylcyclohexane
Concen: 4.716 ug/l
RT: 9.07 min Scan# 2268
Delta R.T. -0.00 min
Lab File: VN059294.D
Acq: 18 Nov 2019 19:02

Tgt Ion	Ratio	Lower	Upper
83	100		
55	76.0	63.9	95.9
98	44.4	35.6	53.4





#40

Benzene

Concen: 244.576 ug/l

RT: 8.02 min Scan# 1944

Delta R.T. 0.00 min

Lab File: VN059294.D

Acq: 18 Nov 2019 19:02

Instrument :

MSVOA_N

ClientSampleId :

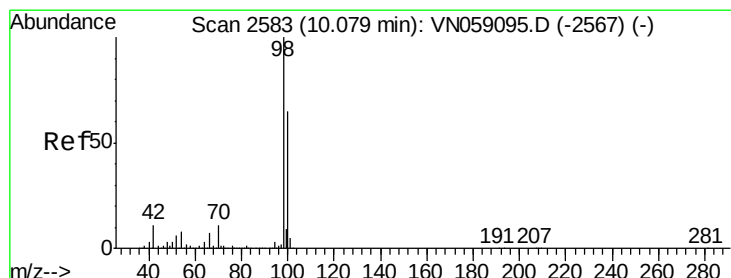
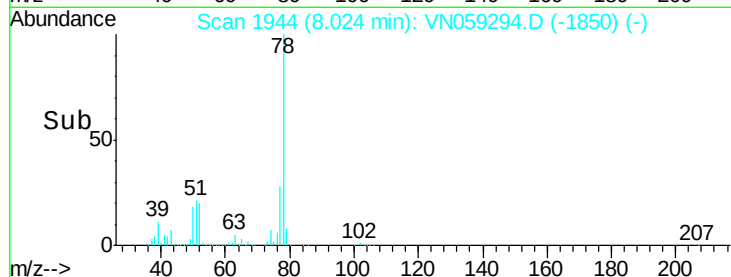
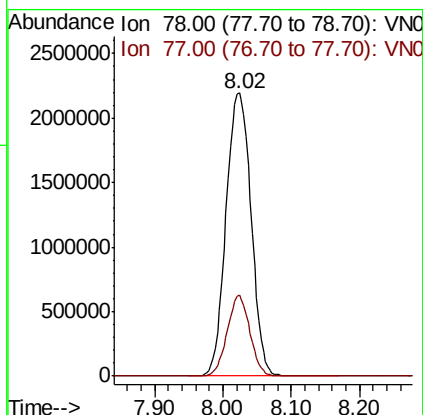
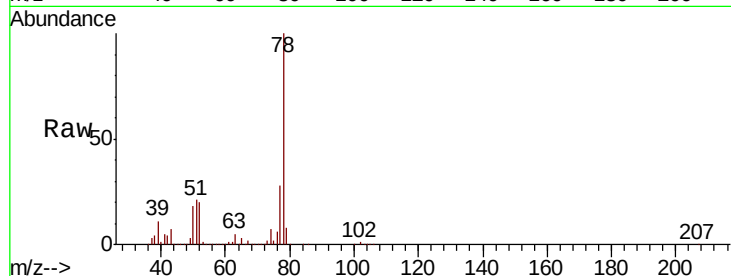
30726

Tot Ion: 78 Resp: 5590981

Ion Ratio Lower Upper

78 100

77 28.4 18.8 28.2#



#50

Toluene-d8

Concen: 51.947 ug/l

RT: 10.08 min Scan# 2584

Delta R.T. 0.00 min

Lab File: VN059294.D

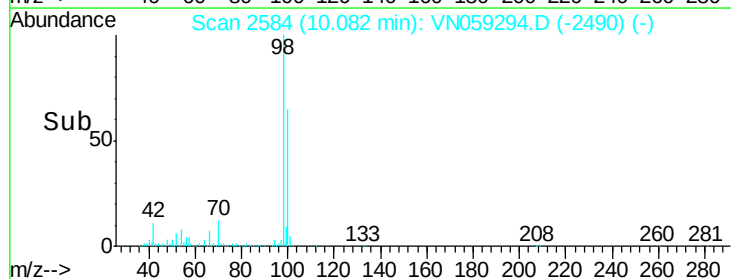
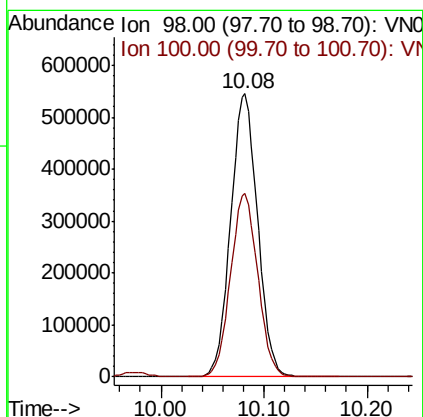
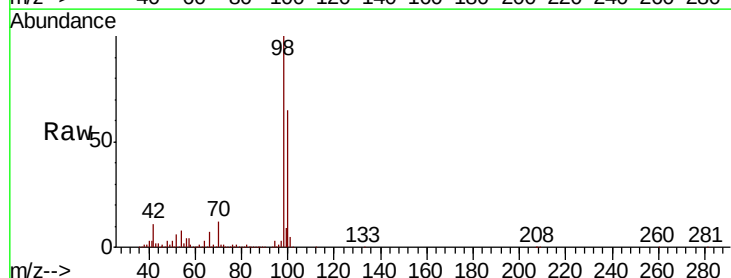
Acq: 18 Nov 2019 19:02

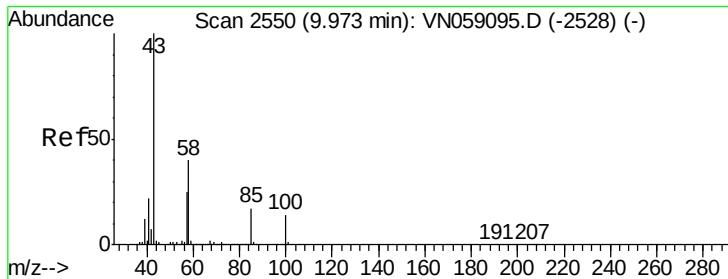
Tgt Ion: 98 Resp: 992238

Ion Ratio Lower Upper

98 100

100 65.6 52.2 78.2

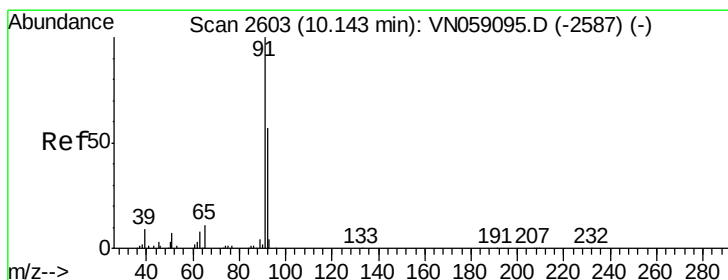
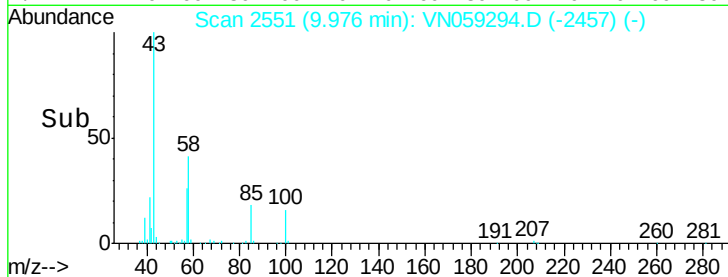
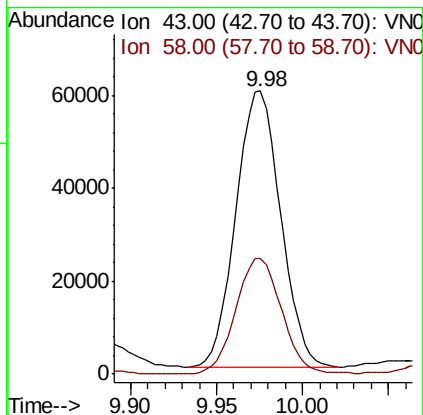
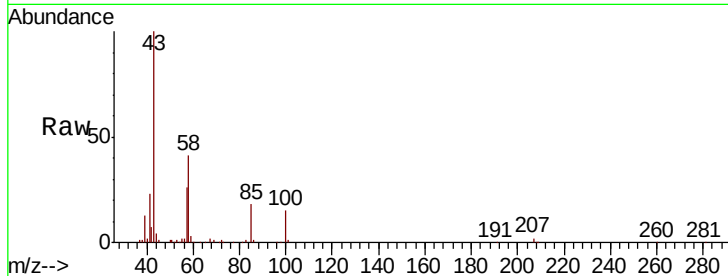




#51
 4-Methyl-2-Pentanone
 Concen: 14.124 ug/l
 RT: 9.98 min Scan# 2551
 Delta R.T. 0.00 min
 Lab File: VN059294.D
 Acq: 18 Nov 2019 19:02

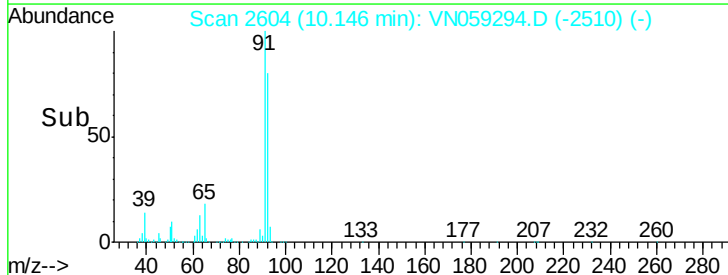
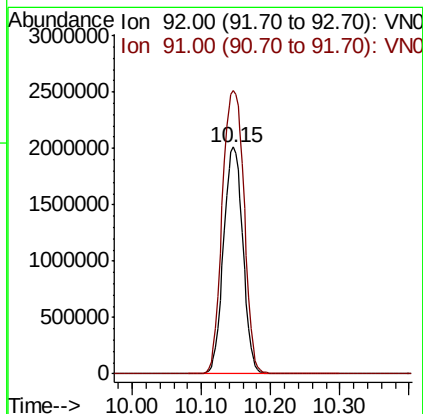
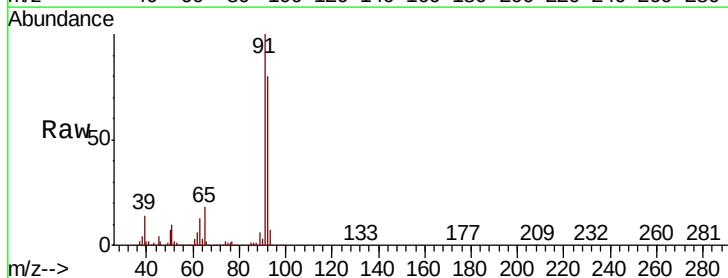
Instrument :
 MSVOA_N
 ClientSampleId :
 30726

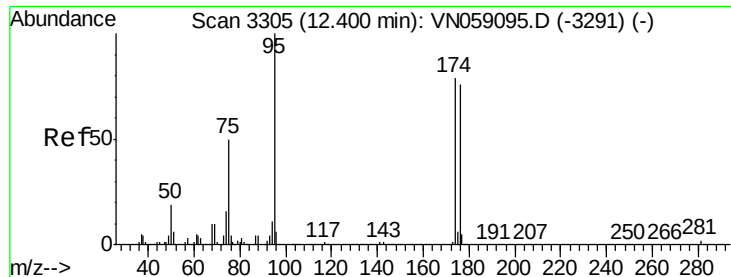
Tot Ion: 43 Resp: 107600
 Ion Ratio Lower Upper
 43 100
 58 43.1 31.5 47.3



#52
 Toluene
 Concen: 285.214 ug/l
 RT: 10.15 min Scan# 2604
 Delta R.T. 0.00 min
 Lab File: VN059294.D
 Acq: 18 Nov 2019 19:02

Tgt Ion: 92 Resp: 3907873
 Ion Ratio Lower Upper
 92 100
 91 141.1 139.5 209.3





#62

4-Bromofluorobenzene

Concen: 51.253 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN059294.D

Acq: 18 Nov 2019 19:02

Instrument :

MSVOA_N

ClientSampled :

30726

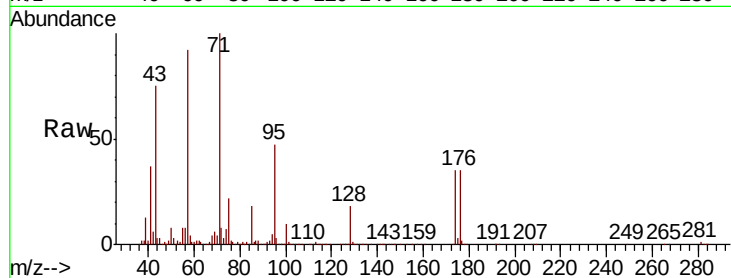
Tot Ion: 95 Resp: 352988

Ion Ratio Lower Upper

95 100

174 76.2 0.0 158.2

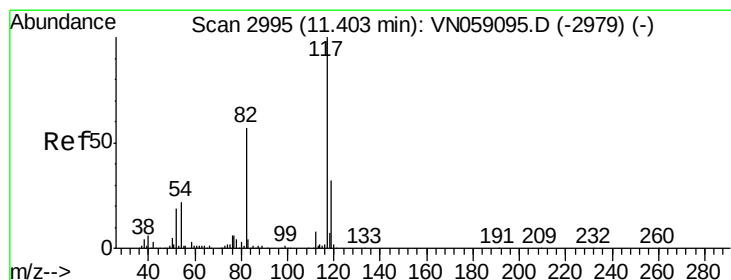
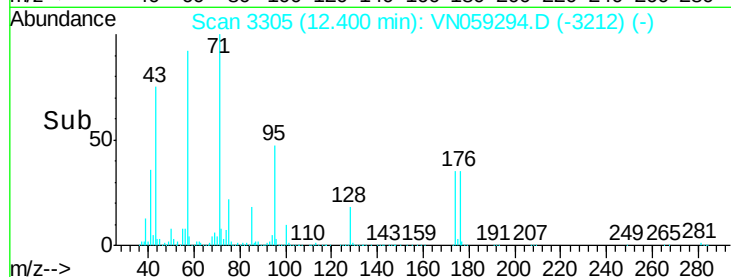
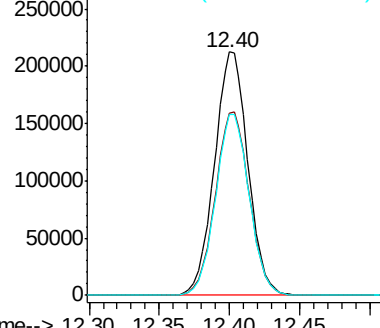
176 75.0 0.0 151.8



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): VN0

Ion 175.80 (175.50 to 176.50): VN0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2995

Delta R.T. -0.00 min

Lab File: VN059294.D

Acq: 18 Nov 2019 19:02

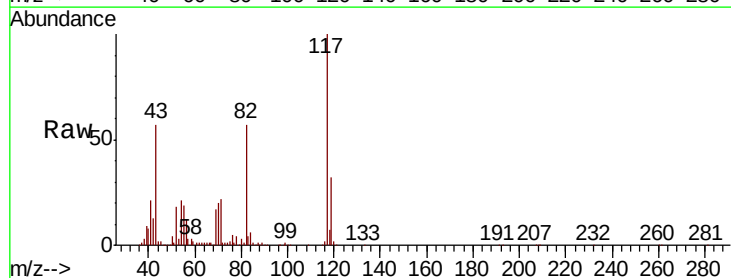
Tgt Ion: 117 Resp: 720389

Ion Ratio Lower Upper

117 100

82 57.3 45.8 68.8

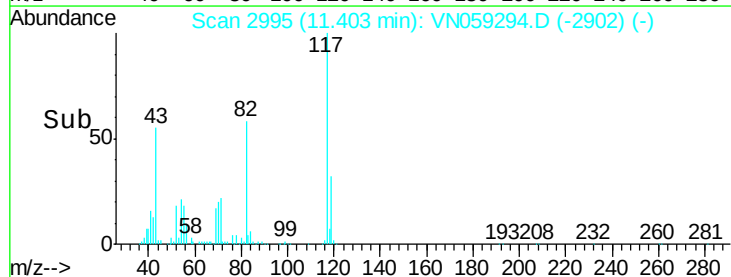
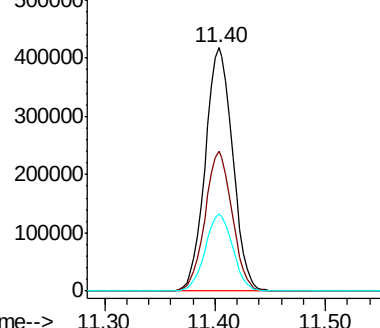
119 31.8 25.8 38.6

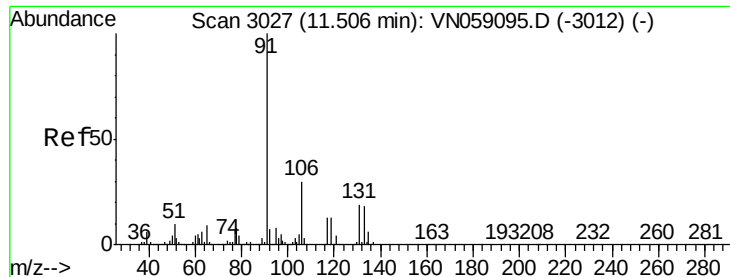


Abundance Ion 116.90 (116.60 to 117.60): VN0

Ion 82.00 (81.70 to 82.70): VN0

Ion 118.90 (118.60 to 119.60): VN0





#67

Ethyl Benzene

Concen: 30.271 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. 0.00 min

Lab File: VN059294.D

Acq: 18 Nov 2019 19:02

Instrument :

MSVOA_N

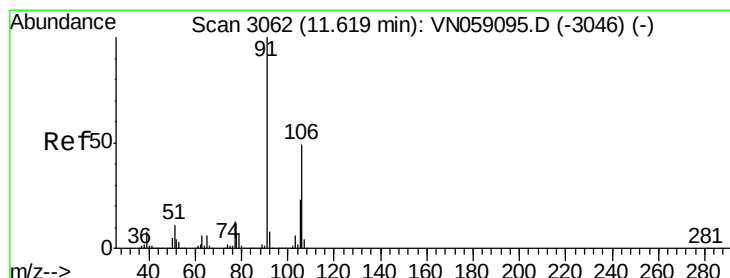
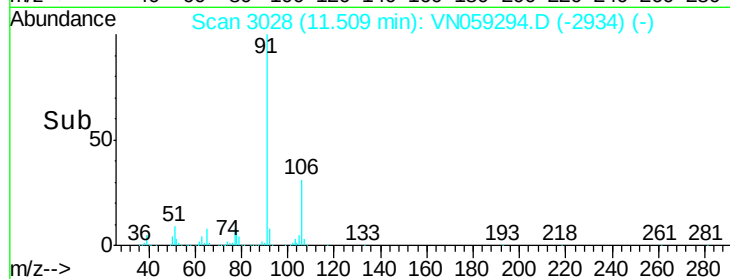
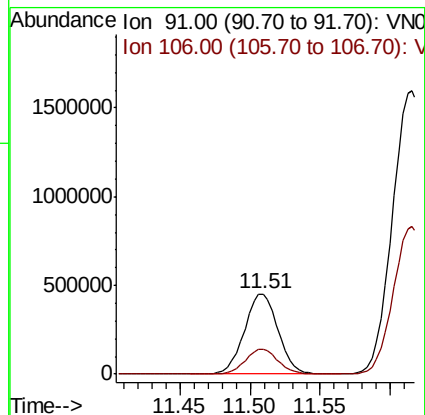
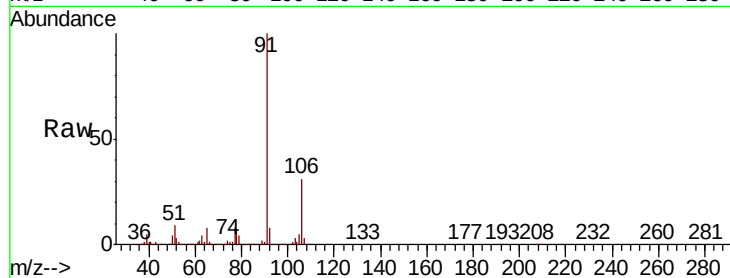
ClientSampled :
30726

Tot Ion: 91 Resp: 754235

Ion Ratio Lower Upper

91 100

106 30.9 24.1 36.1



#68

m/p-Xylenes

Concen: 166.404 ug/l

RT: 11.62 min Scan# 3061

Delta R.T. -0.00 min

Lab File: VN059294.D

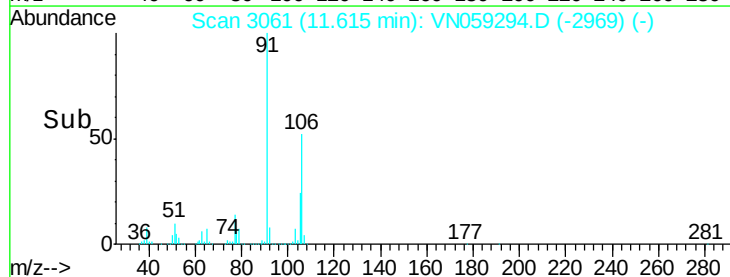
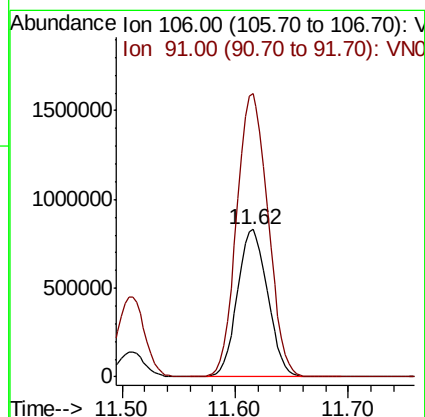
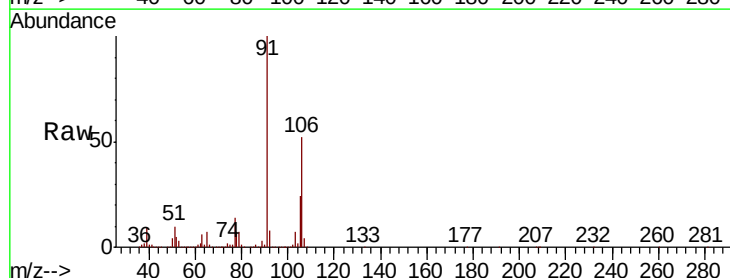
Acq: 18 Nov 2019 19:02

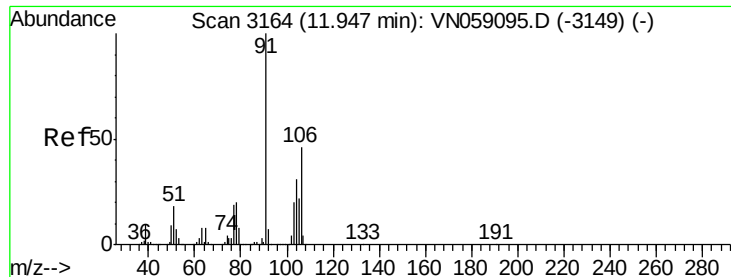
Tgt Ion:106 Resp: 1553078

Ion Ratio Lower Upper

106 100

91 198.0 164.7 247.1

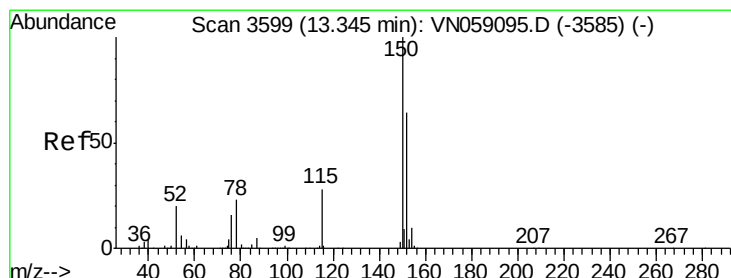
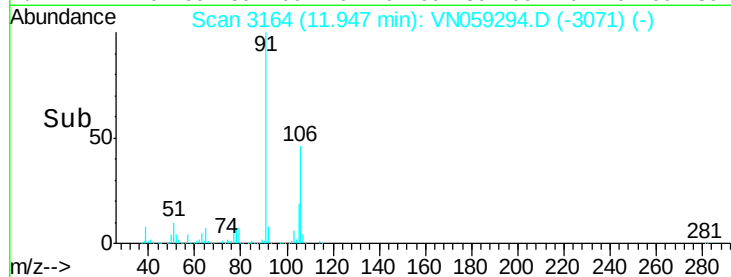
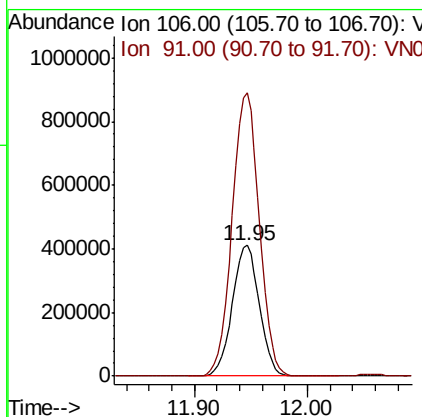
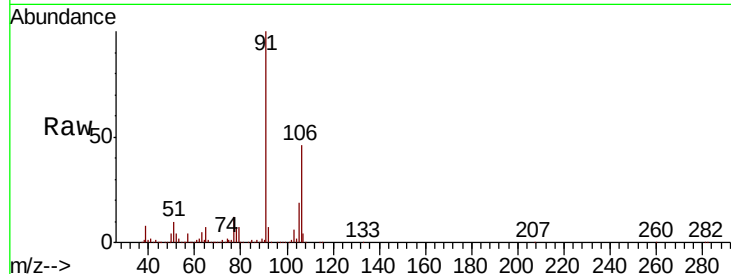




#69
o-Xylene
Concen: 75.631 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. -0.00 min
Lab File: VN059294.D
Acq: 18 Nov 2019 19:02

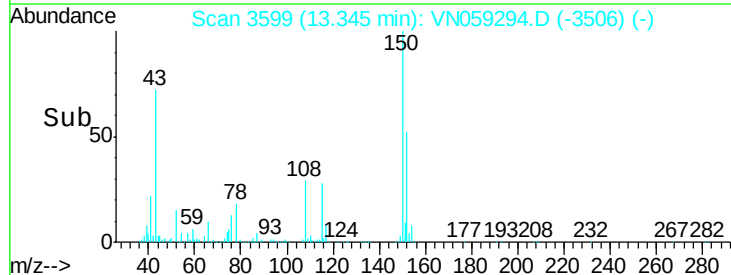
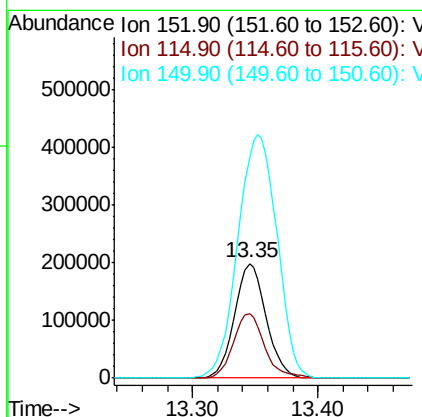
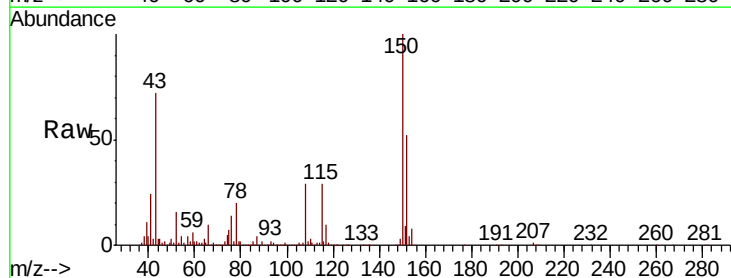
Instrument :
MSVOA_N
ClientSampleId :
30726

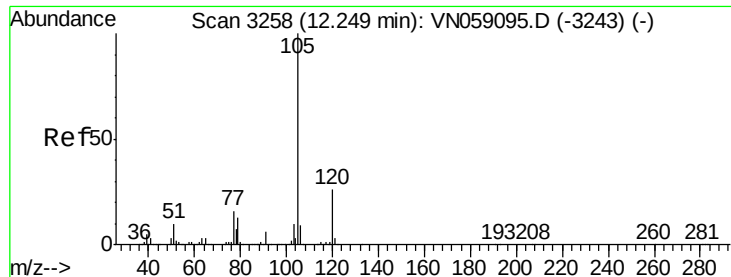
Tot Ion:106 Resp: 682156
Ion Ratio Lower Upper
106 100
91 217.7 110.1 330.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. -0.00 min
Lab File: VN059294.D
Acq: 18 Nov 2019 19:02

Tgt Ion:152 Resp: 346466
Ion Ratio Lower Upper
152 100
115 55.6 29.4 88.2
150 264.1 0.0 345.8





#73

Isopropylbenzene

Concen: 1.105 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. -0.00 min

Lab File: VN059294.D

Acq: 18 Nov 2019 19:02

Instrument :

MSVOA_N

ClientSampled :

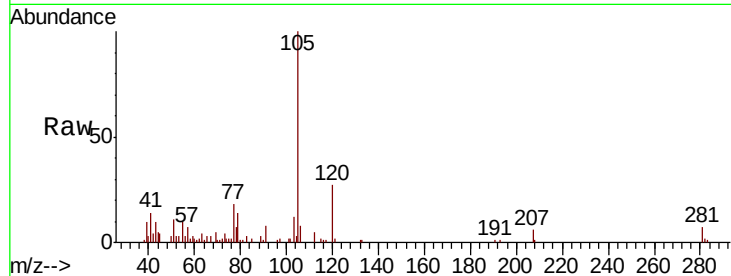
30726

Tot Ion:105 Resp: 27857

Ion Ratio Lower Upper

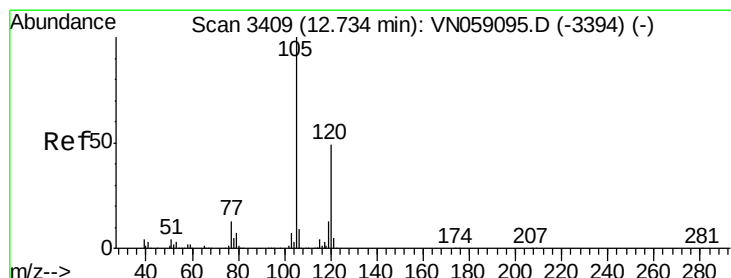
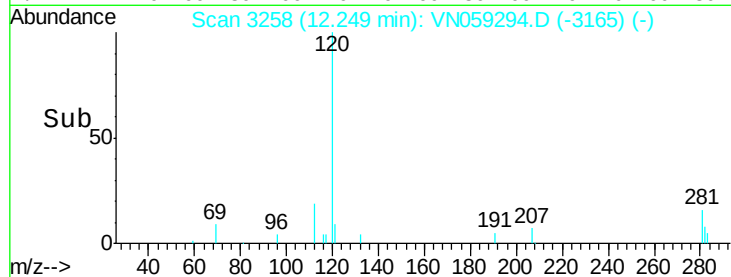
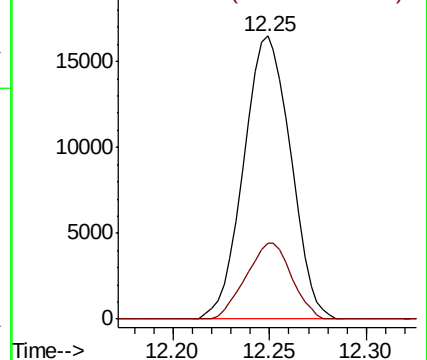
105 100

120 26.1 13.1 39.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#80

1,3,5-Trimethylbenzene

Concen: 3.983 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. -0.00 min

Lab File: VN059294.D

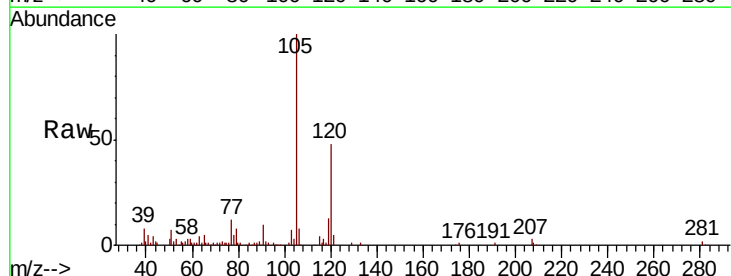
Acq: 18 Nov 2019 19:02

Tgt Ion:105 Resp: 85056

Ion Ratio Lower Upper

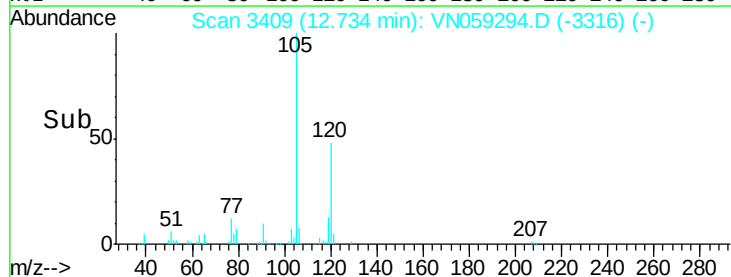
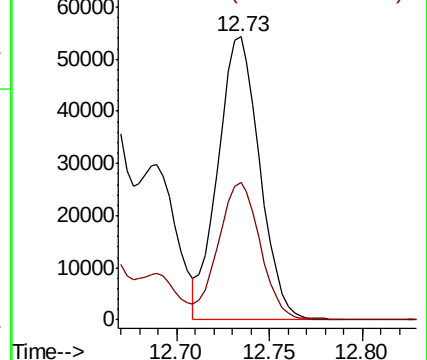
105 100

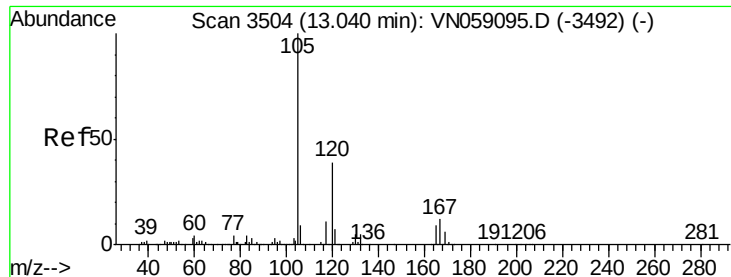
120 48.4 24.0 72.0



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: 13.889 ug/l

RT: 13.04 min Scan# 3504

Delta R.T. -0.00 min

Lab File: VN059294.D

Acq: 18 Nov 2019 19:02

Instrument :

MSVOA_N

ClientSampled :

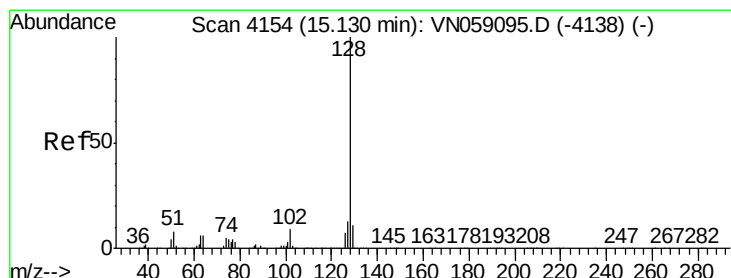
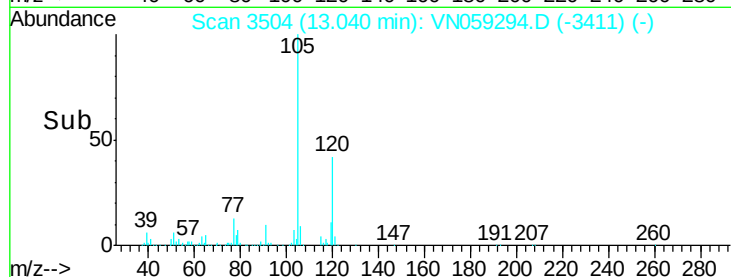
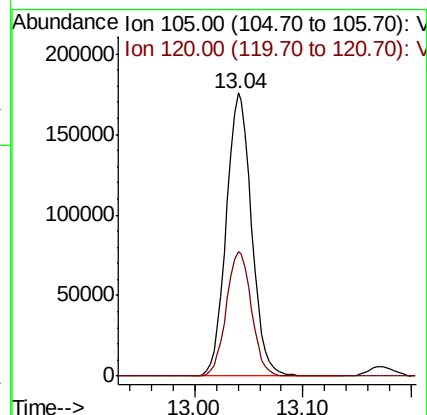
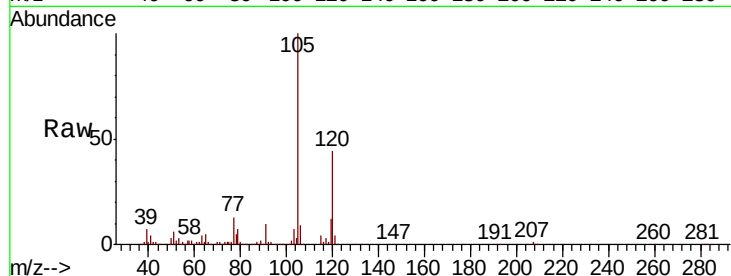
30726

Tot Ion:105 Resp: 286966

Ion Ratio Lower Upper

105 100

120 43.5 22.8 68.4



#95

Naphthalene

Concen: 12.894 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN059294.D

Acq: 18 Nov 2019 19:02

Tgt Ion:128 Resp: 188300

Ion Ratio Lower Upper

128 100

127 12.8 10.2 15.2

129 11.5 8.6 12.8

