

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX112420\
 Data File : VX019626.D
 Acq On : 25 Nov 2020 00:03
 Operator : JC/MD
 Sample : L4841-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 40741

Manual Integrations
 APPROVED

MMDadoda
 11/25/2020 9:54:51 AM

Quant Time: Nov 25 06:41:57 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X112120W.M
 Quant Title : SW846 8260
 QLast Update : Sat Nov 21 01:57:45 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.62	168	301478	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	497445	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	455990	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	204551	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.03	65	184013	47.08	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery =	94.16%		
35) Dibromofluoromethane	5.46	113	149202	47.78	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery =	95.56%		
50) Toluene-d8	8.70	98	607471	50.07	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery =	100.14%		
62) 4-Bromofluorobenzene	11.12	95	220055	50.41	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery =	100.82%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	3.03	59	33984	45.939	ug/l	96
16) Acetone	2.42	43	1467345	970.692	ug/l	100
17) Carbon Disulfide	2.54	76	25380	3.156	ug/l	96
19) Methyl tert-butyl Ether	3.17	73	46830	4.533	ug/l	100
22) Diisopropyl ether	3.82	45	45481	4.689	ug/l #	84
25) 2-Butanone	4.64	43	352346	155.165	ug/l	99
29) Tetrahydrofuran	5.10	42	5111	3.528	ug/l #	75
31) Cyclohexane	5.54	56	1515	0.298	ug/l	93
39) Methylcyclohexane	7.43	83	6688	1.232	ug/l	93
40) Benzene	6.11	78	182559	12.741	ug/l	98
51) 4-Methyl-2-Pentanone	8.62	43	44541	10.379	ug/l	99
52) Toluene	8.76	92	248135	28.308	ug/l	99
59) 2-Hexanone	9.48	43	45527	13.987	ug/l	96
67) Ethyl Benzene	10.23	91	572138	34.836	ug/l	99
68) m/p-Xylenes	10.34	106	1003829	164.052	ug/l	98
69) o-Xylene	10.68	106	615319	105.195	ug/l	100
73) Isopropylbenzene	11.00	105	175111	12.375	ug/l	100
78) n-propylbenzene	11.34	91	812045	50.024	ug/l	99
80) 1,3,5-Trimethylbenzene	11.49	105	1139510	95.996	ug/l	99
84) 1,2,4-Trimethylbenzene	11.79	105	4910338	408.833	ug/l	97
85) sec-Butylbenzene	11.93	105	108645m	7.952	ug/l	
86) p-Isopropyltoluene	12.05	119	70125	5.653	ug/l	100
95) Naphthalene	13.82	128	2857237	183.303	ug/l	100

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

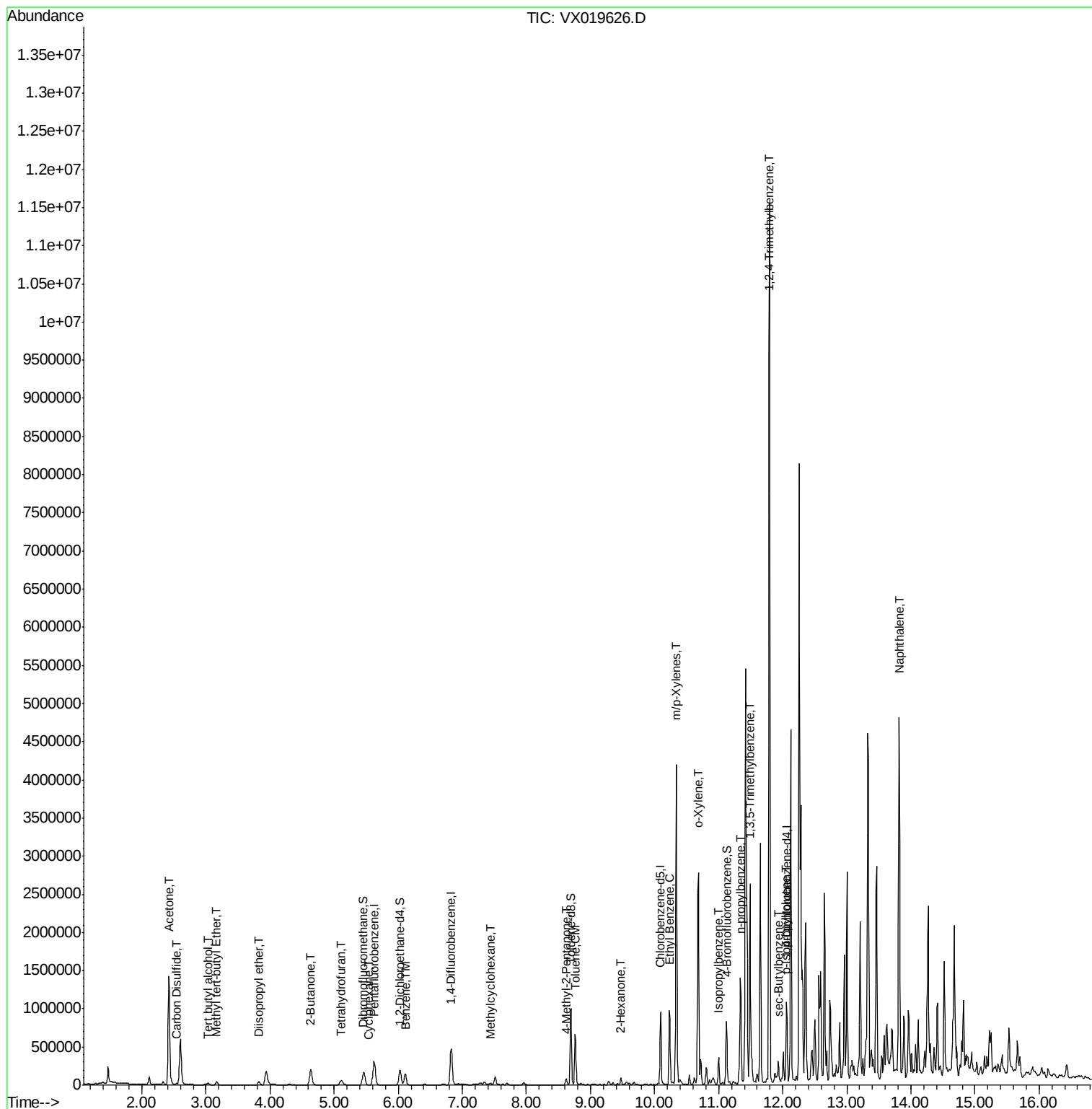
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX112420\
Data File : VX019626.D
Acq On : 25 Nov 2020 00:03
Operator : JC/MD
Sample : L4841-01
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 36 Sample Multiplier: 1

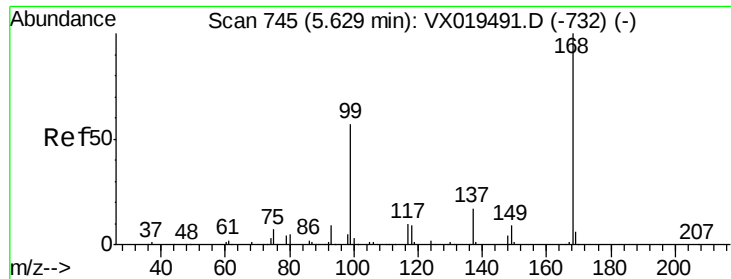
Instrument :
MSVOA_X
ClientSampleId :
40741

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Quant Time: Nov 25 06:41:57 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X112120W.M
Quant Title : SW846 8260
QLast Update : Sat Nov 21 01:57:45 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.62 min Scan# 744

Delta R.T. -0.01 min

Lab File: VX019626.D

Acq: 25 Nov 2020 00:03

Instrument :

MSVOA_X

ClientSampleId :

40741

Tot Ion:168 Resp: 301478

Ion Ratio Lower Upper

168 100

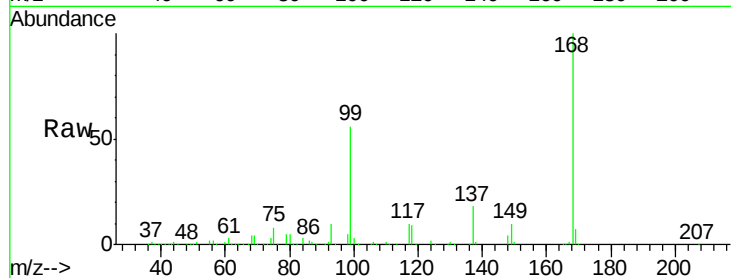
99 56.2 45.8 68.6

Manual Integrations

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11/25/2020 9:54:51 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.62

120000

100000

80000

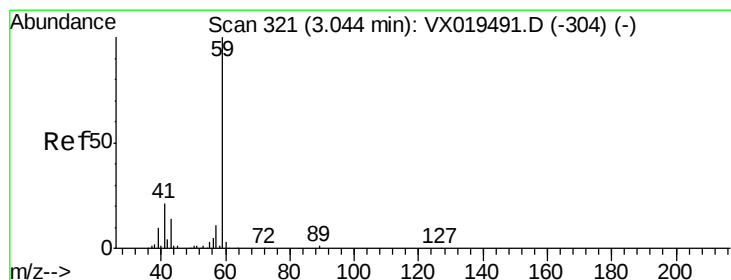
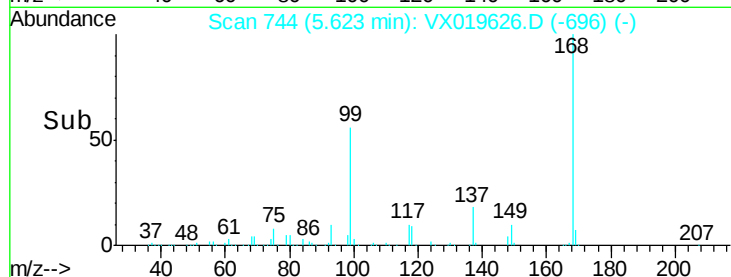
60000

40000

20000

0

Time-->



#11

Tert butyl alcohol

Concen: 45.939 ug/l

RT: 3.03 min Scan# 319

Delta R.T. -0.01 min

Lab File: VX019626.D

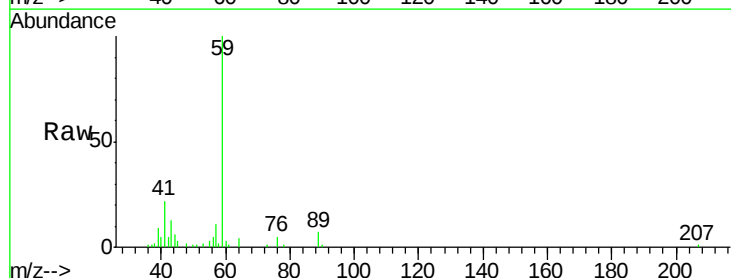
Acq: 25 Nov 2020 00:03

Tgt Ion: 59 Resp: 33984

Ion Ratio Lower Upper

59 100

57 8.5 7.9 11.9



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

3.03

12000

10000

8000

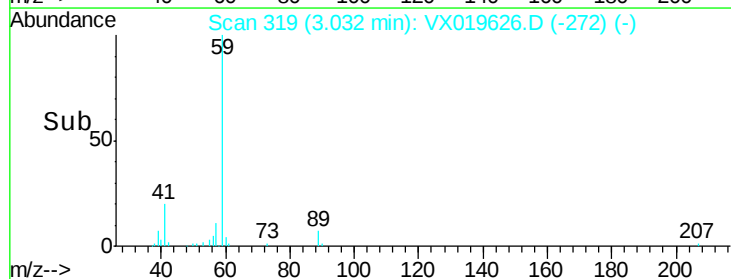
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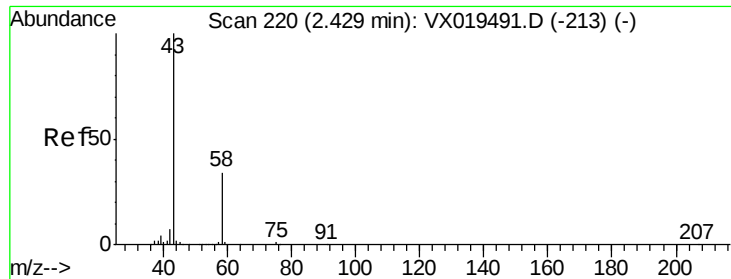
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2000

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Time-->





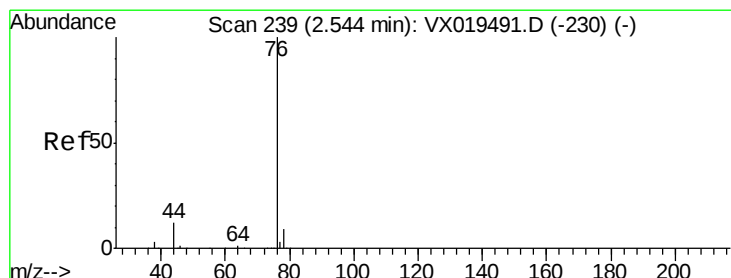
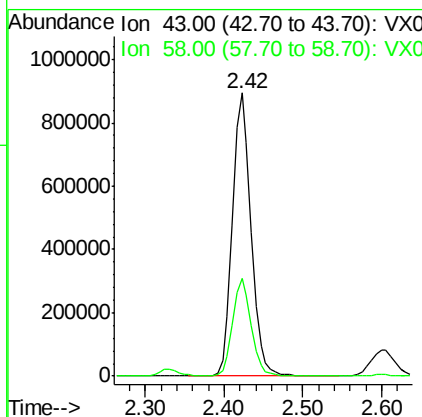
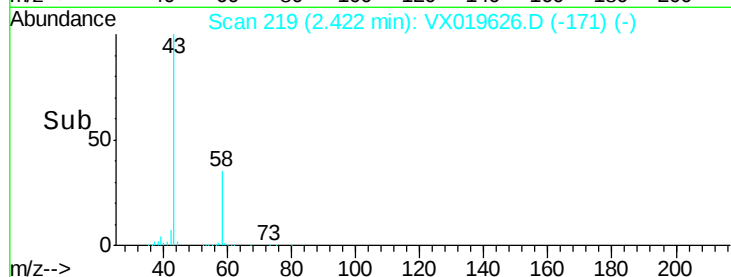
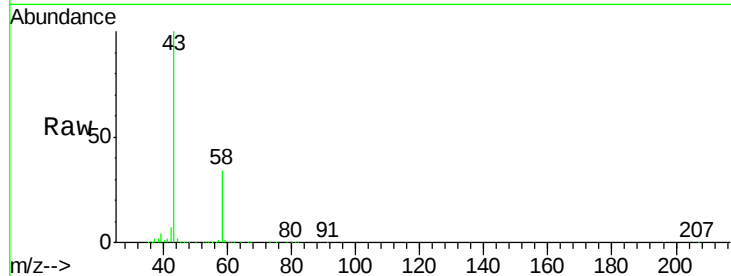
#16
Acetone
Concen: 970.692 ug/l
RT: 2.42 min Scan# 219
Delta R.T. -0.01 min
Lab File: VX019626.D
Acq: 25 Nov 2020 00:03

Instrument :
MSVOA_X
ClientSampleId :
40741

Tot Ion: 43 Resp: 1467345
Ion Ratio Lower Upper
43 100
58 34.3 27.4 41.2

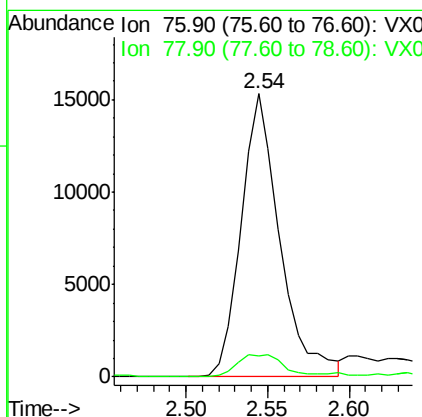
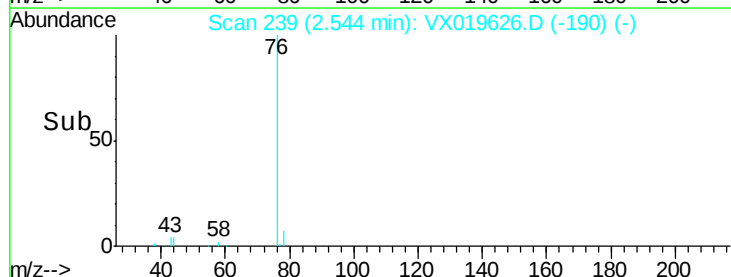
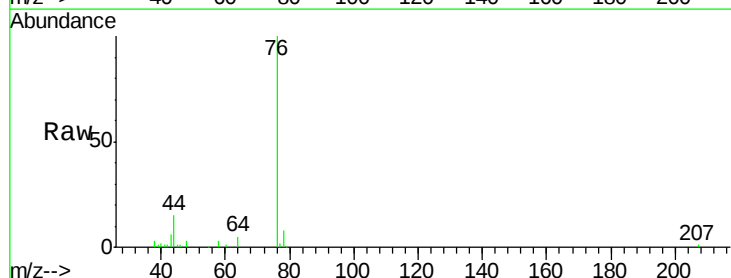
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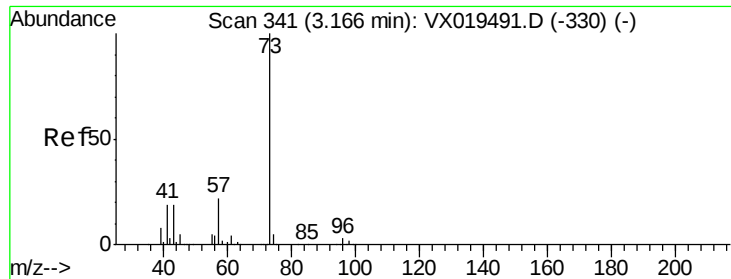
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#17
Carbon Disulfide
Concen: 3.156 ug/l
RT: 2.54 min Scan# 239
Delta R.T. -0.00 min
Lab File: VX019626.D
Acq: 25 Nov 2020 00:03

Tgt Ion: 76 Resp: 25380
Ion Ratio Lower Upper
76 100
78 7.5 7.2 10.8





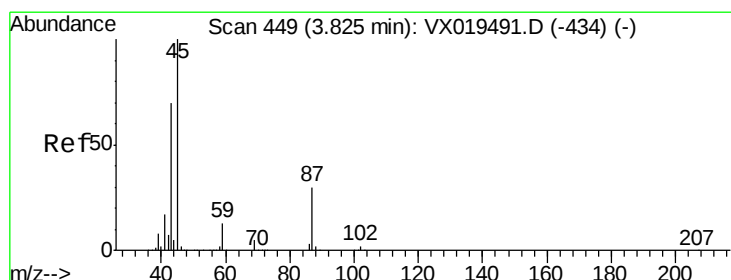
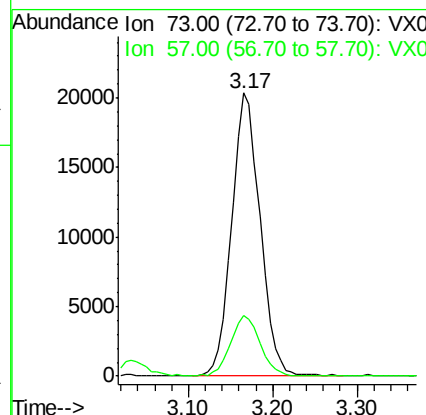
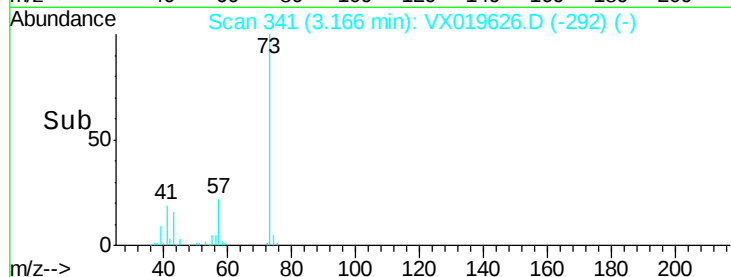
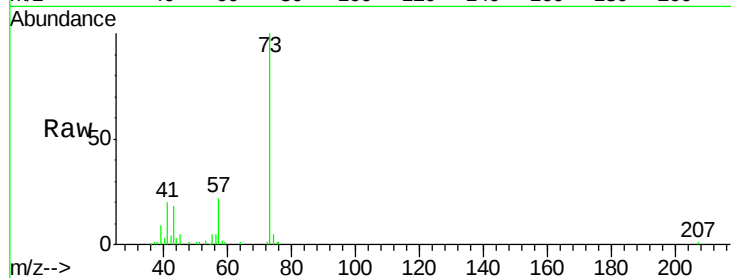
#19
Methvl tert-butvl Ether
Concen: 4.533 ug/l
RT: 3.17 min Scan# 341
Delta R.T. -0.00 min
Lab File: VX019626.D
Acq: 25 Nov 2020 00:03

Instrument :
MSVOA_X
ClientSampleId :
40741

Tot Ion	Ratio	Lower	Upper
73	100		
57	21.5	17.3	25.9

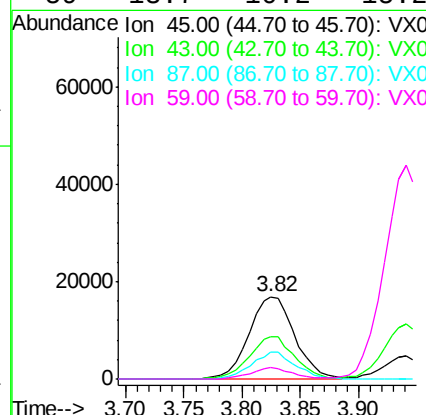
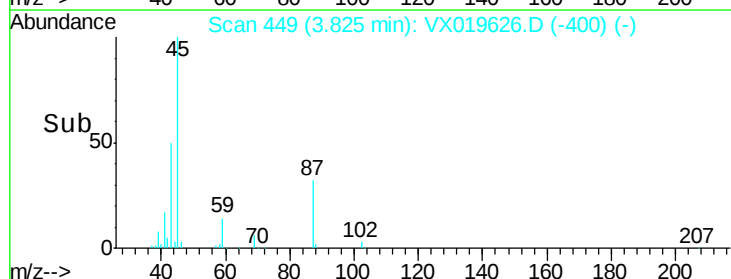
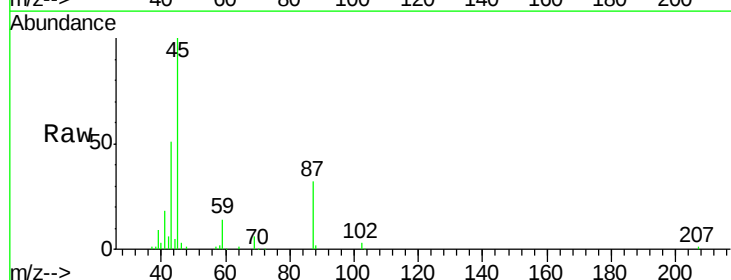
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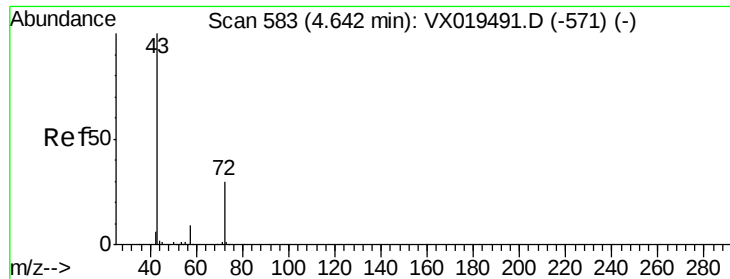
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#22
Diisopropyl ether
Concen: 4.689 ug/l
RT: 3.82 min Scan# 449
Delta R.T. -0.00 min
Lab File: VX019626.D
Acq: 25 Nov 2020 00:03

Tgt Ion	Ratio	Lower	Upper
45	100		
43	50.4	56.1	84.1#
87	32.2	24.2	36.2
59	13.7	10.2	15.2





#25

2-Butanone

Concen: 155.165 ug/l

RT: 4.64 min Scan# 582

Delta R.T. -0.01 min

Lab File: VX019626.D

Acq: 25 Nov 2020 00:03

Instrument :

MSVOA_X

ClientSampleId :

40741

Tot Ion: 43 Resp: 352346

Ion Ratio Lower Upper

43 100

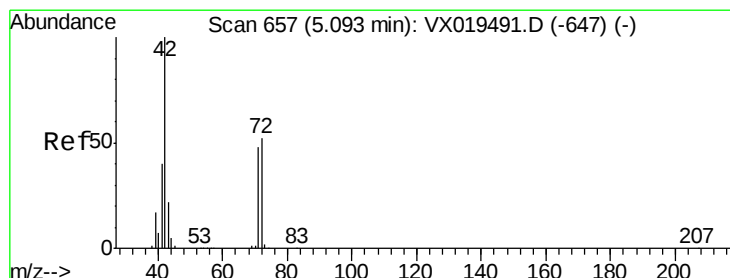
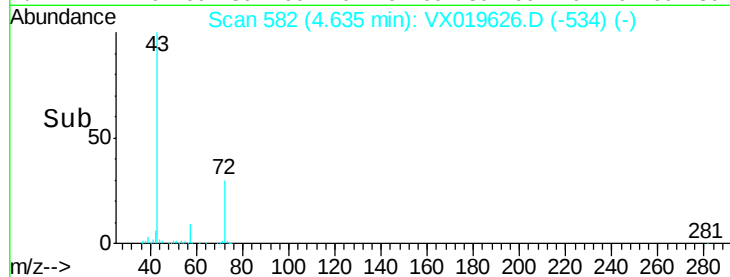
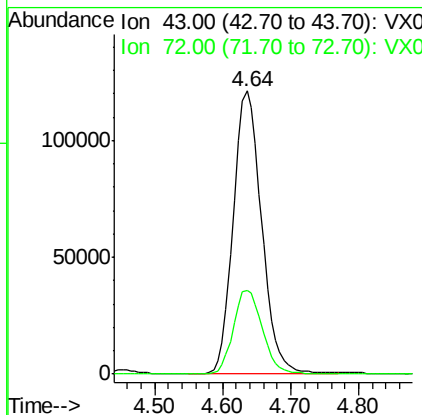
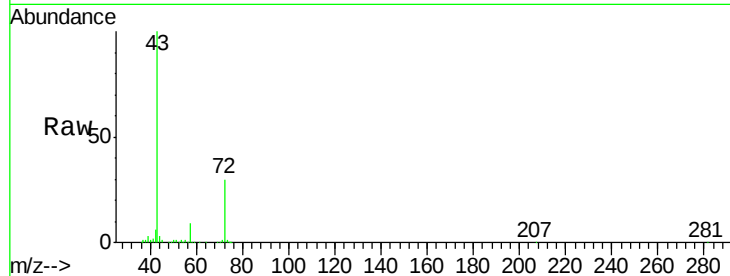
72 29.7 24.0 36.0

Manual Integrations

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#29

Tetrahydrofuran

Concen: 3.528 ug/l

RT: 5.10 min Scan# 658

Delta R.T. 0.01 min

Lab File: VX019626.D

Acq: 25 Nov 2020 00:03

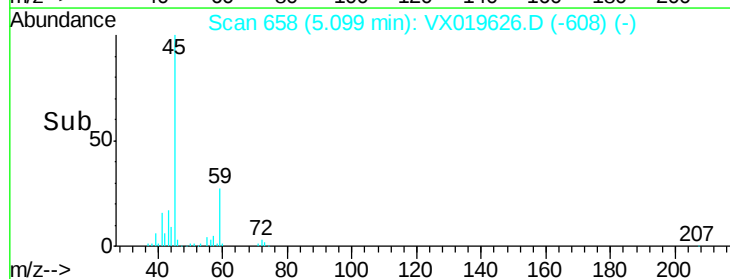
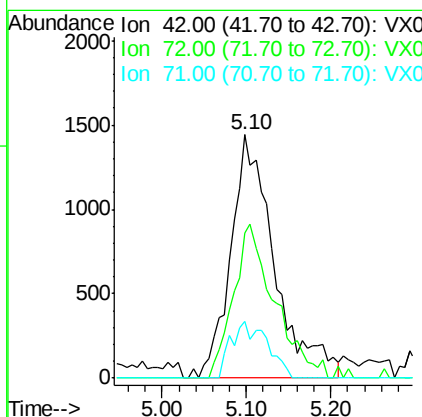
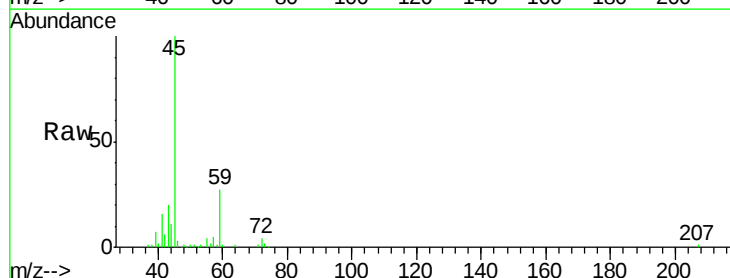
Tgt Ion: 42 Resp: 5111

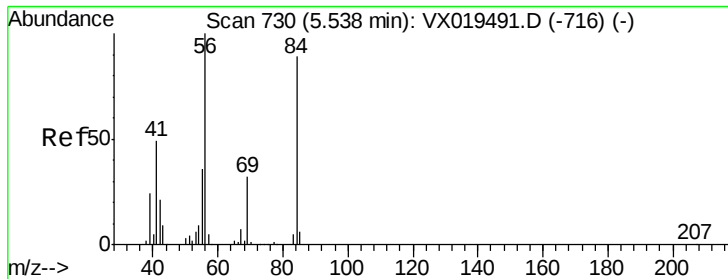
Ion Ratio Lower Upper

42 100

72 59.4 42.6 63.8

71 19.2 39.0 58.6#





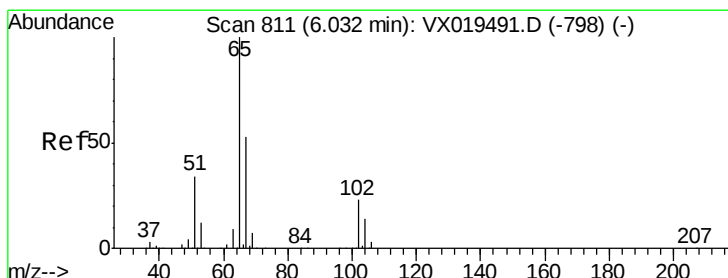
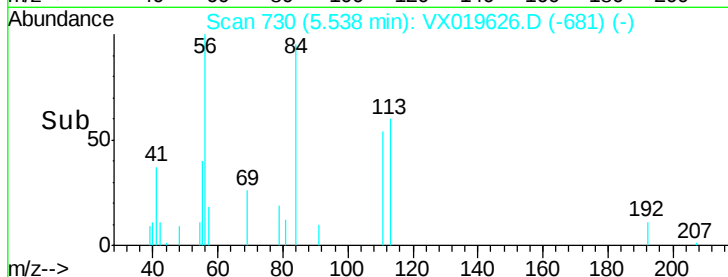
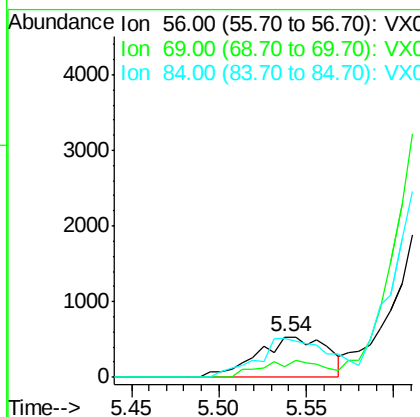
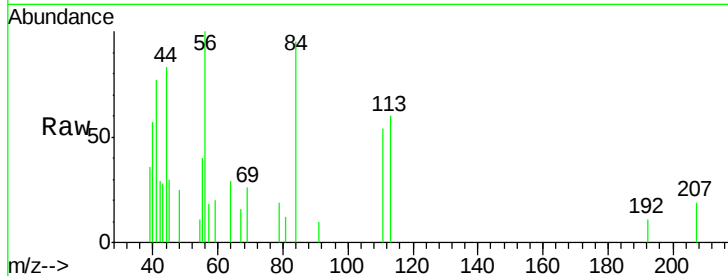
#31
Cyclohexane
Concen: 0.298 ug/l
RT: 5.54 min Scan# 730
Delta R.T. -0.00 min
Lab File: VX019626.D
Acq: 25 Nov 2020 00:03

Instrument :
MSVOA_X
ClientSampleId :
40741

Tot Ion	Ratio	Lower	Upper
56	100		
69	25.9	25.5	38.3
84	94.8	71.1	106.7

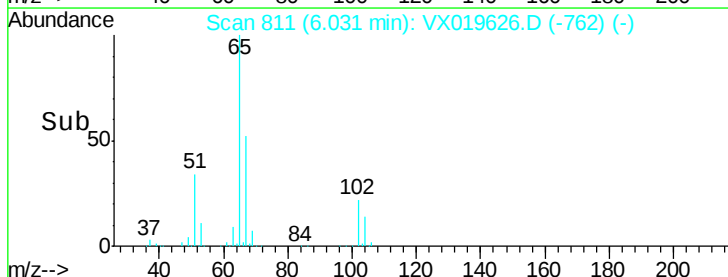
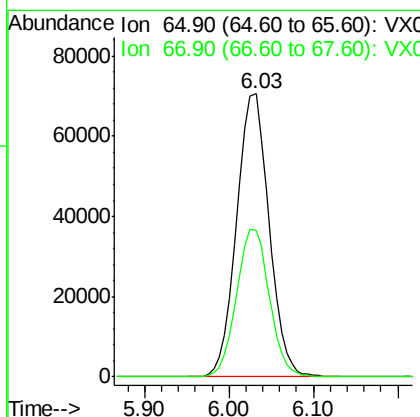
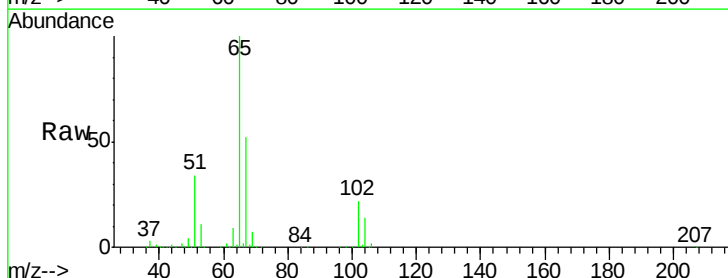
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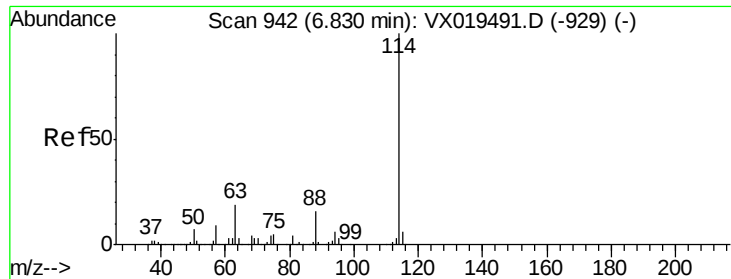
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#33
1,2-Dichloroethane-d4
Concen: 47.075 ug/l
RT: 6.03 min Scan# 811
Delta R.T. -0.00 min
Lab File: VX019626.D
Acq: 25 Nov 2020 00:03

Tgt Ion	Ratio	Lower	Upper
65	100		
67	52.8	0.0	105.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.83 min Scan# 942

Delta R.T. -0.00 min

Lab File: VX019626.D

Acq: 25 Nov 2020 00:03

Instrument :

MSVOA_X

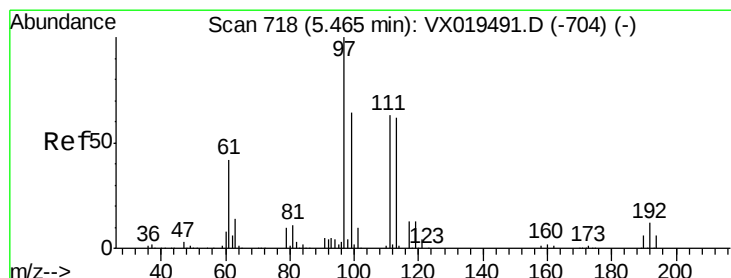
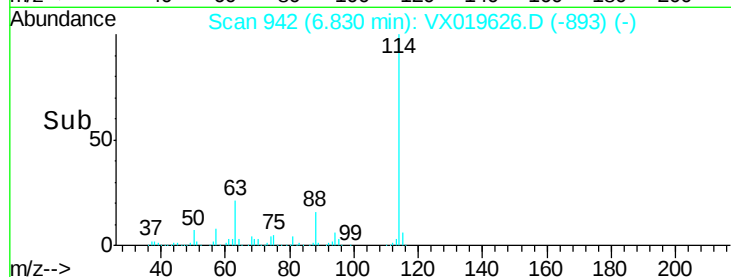
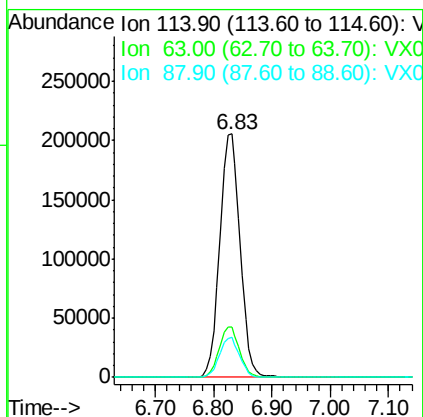
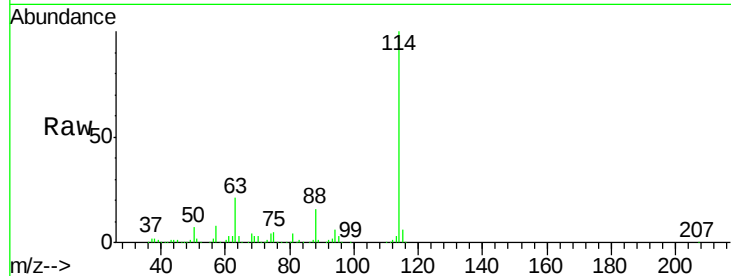
ClientSampled :

40741

Tot Ion	Ratio	Resp	Lower	Upper
114	100	497445		
63	20.6		0.0	38.8
88	16.5		0.0	31.6

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#35

Dibromofluoromethane

Concen: 47.783 ug/l

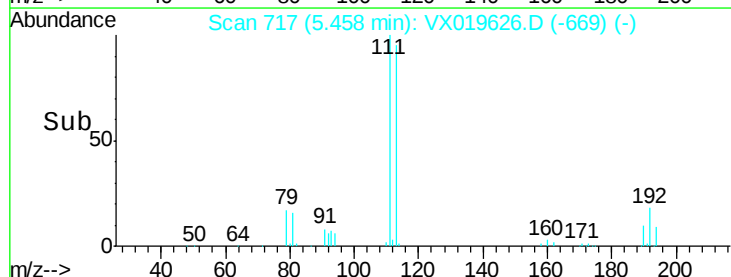
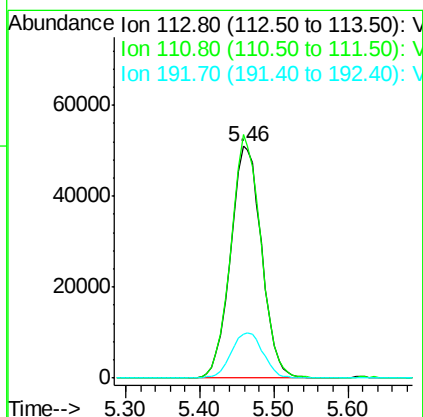
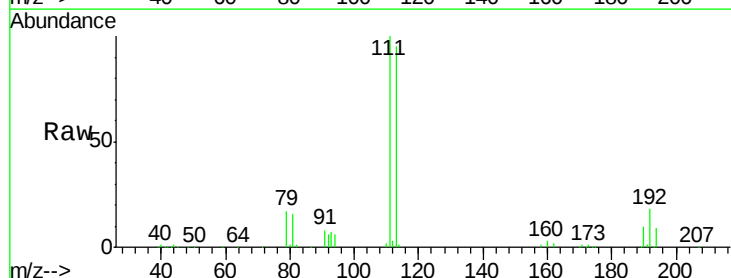
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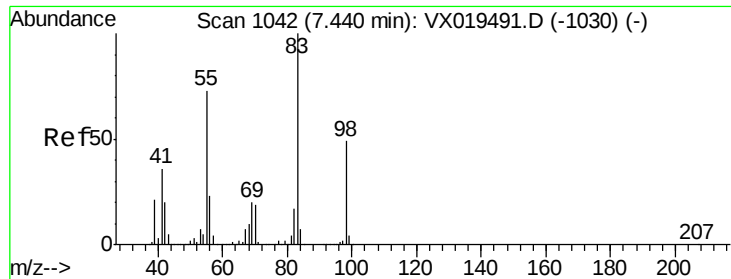
Delta R.T. -0.01 min

Lab File: VX019626.D

Acq: 25 Nov 2020 00:03

Tgt Ion	Ratio	Resp	Lower	Upper
113	100	149202		
111	101.3		81.5	122.3
192	20.1		16.2	24.2





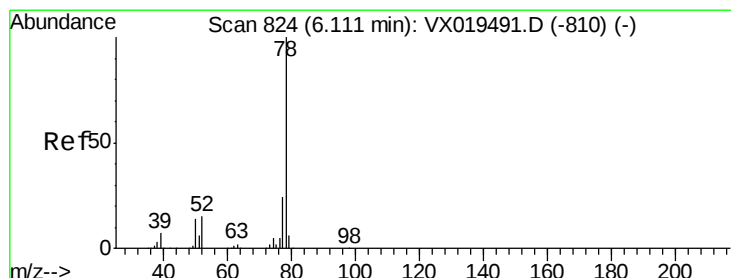
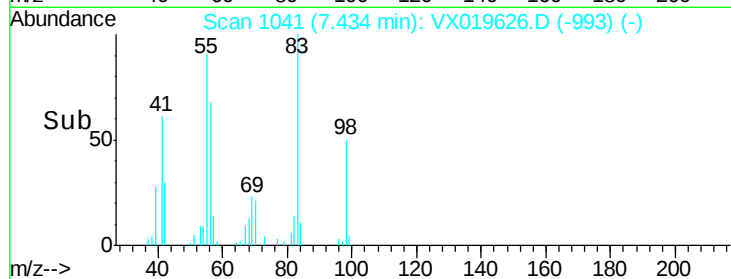
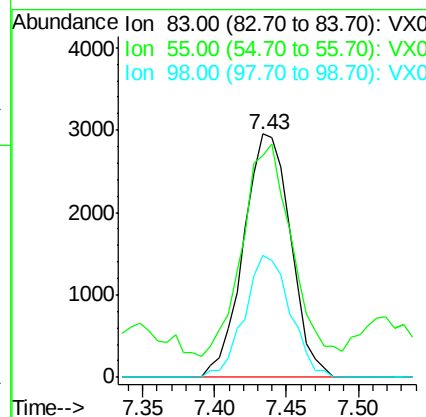
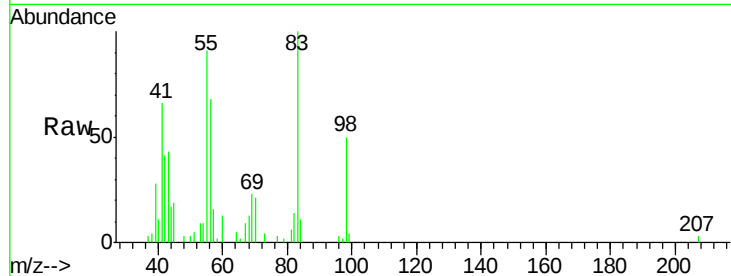
#39
Methvlcvclohexane
Concen: 1.232 ug/l
RT: 7.43 min Scan# 1041
Delta R.T. -0.01 min
Lab File: VX019626.D
Acq: 25 Nov 2020 00:03

Instrument :
MSVOA_X
ClientSampleId :
40741

Tot Ion	Ratio	Lower	Upper
83	100		
55	80.9	58.3	87.5
98	50.3	38.9	58.3

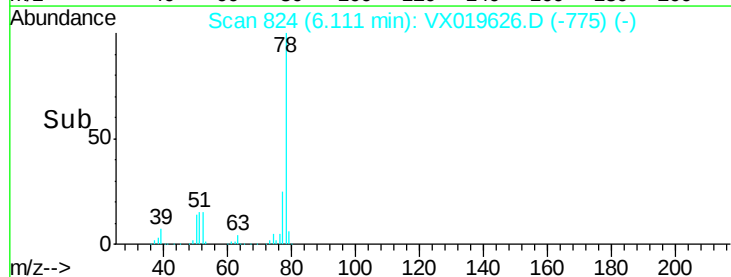
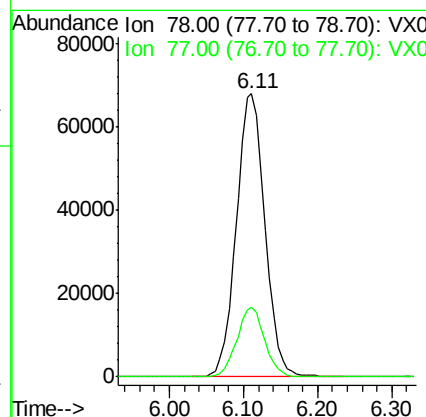
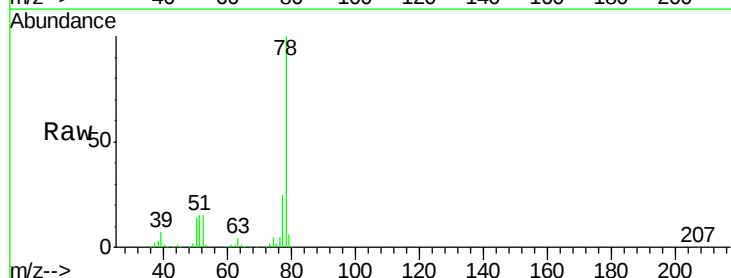
Manual Integrations
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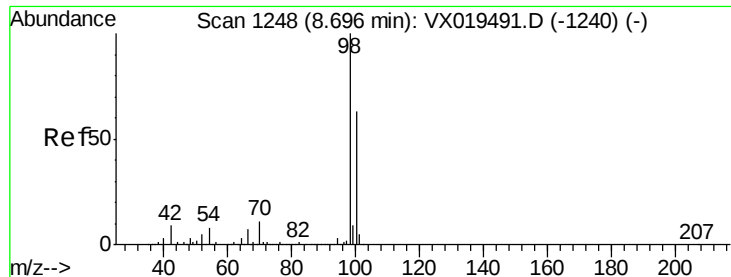
MMDadoda
11/25/2020 9:54:51 AM



#40
Benzene
Concen: 12.741 ug/l
RT: 6.11 min Scan# 824
Delta R.T. -0.00 min
Lab File: VX019626.D
Acq: 25 Nov 2020 00:03

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.7	18.9	28.3





#50

Toluene-d8

Concen: 50.065 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX019626.D

Acq: 25 Nov 2020 00:03

Instrument :

MSVOA_X

ClientSampled :

40741

Tot Ion: 98 Resp: 607471

Ion Ratio Lower Upper

98 100

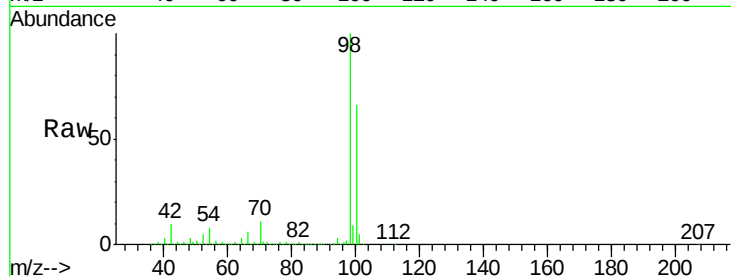
100 66.2 52.4 78.6

Manual Integrations

APPROVED

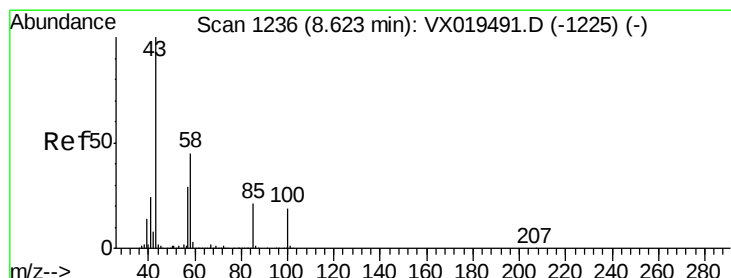
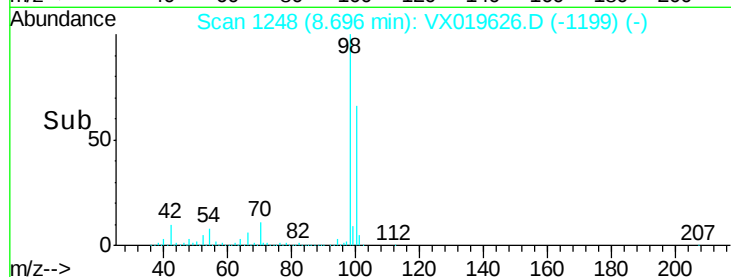
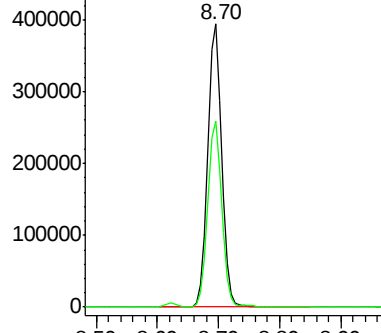
MMDadoda

11/25/2020 9:54:51 AM



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0



#51

4-Methyl-2-Pentanone

Concen: 10.379 ug/l

RT: 8.62 min Scan# 1236

Delta R.T. -0.00 min

Lab File: VX019626.D

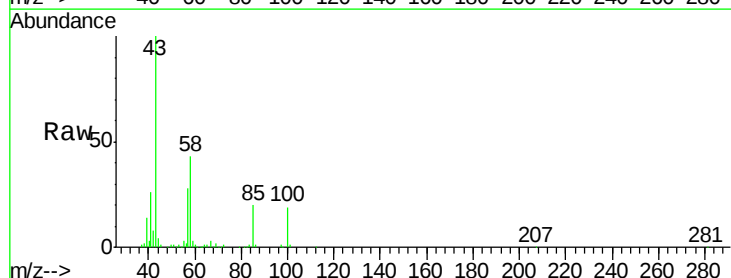
Acq: 25 Nov 2020 00:03

Tgt Ion: 43 Resp: 44541

Ion Ratio Lower Upper

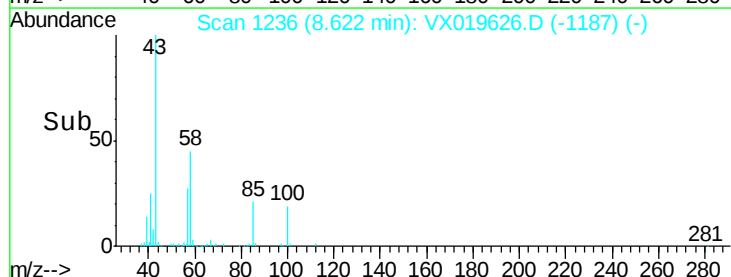
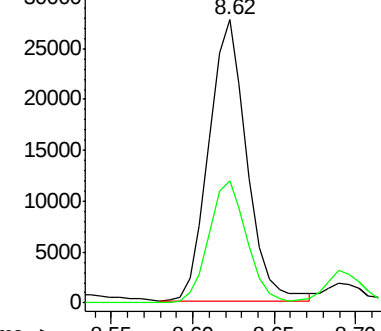
43 100

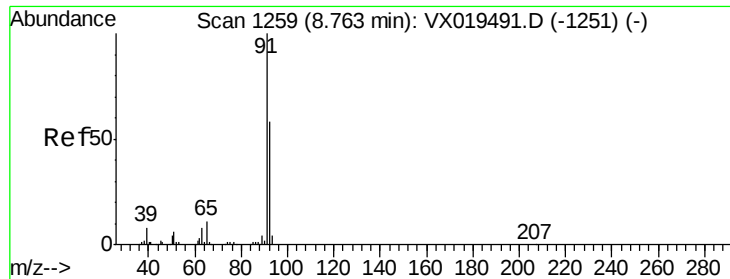
58 43.5 35.1 52.7



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#52

Toluene

Concen: 28.308 ug/l

RT: 8.76 min Scan# 1259

Delta R.T. -0.00 min

Lab File: VX019626.D

Acq: 25 Nov 2020 00:03

Instrument :

MSVOA_X

ClientSampleId :

40741

Tot Ion: 92 Resp: 248135

Ion Ratio Lower Upper

92 100

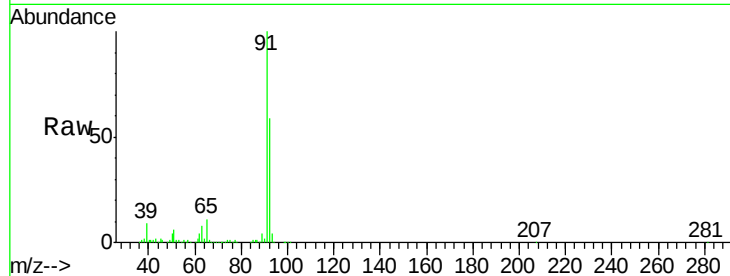
91 171.3 138.1 207.1

Manual Integrations

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MMDadoda

11/25/2020 9:54:51 AM



Abundance Ion 92.00 (91.70 to 92.70): VX0

Ion 91.00 (90.70 to 91.70): VX0

300000

250000

200000

150000

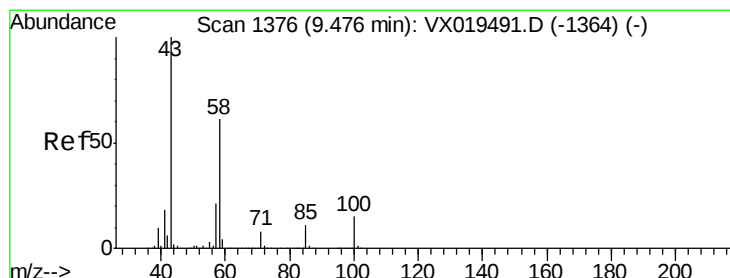
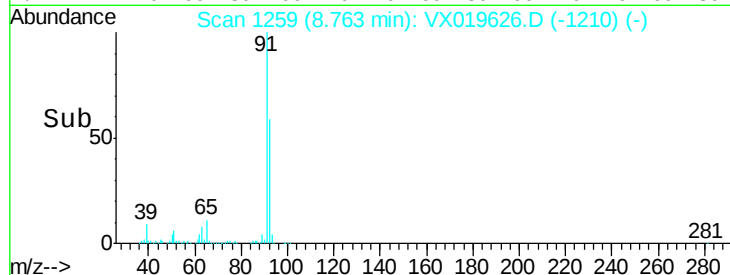
100000

50000

0

8.70 8.80 8.90

Time-->



#59

2-Hexanone

Concen: 13.987 ug/l

RT: 9.48 min Scan# 1376

Delta R.T. -0.00 min

Lab File: VX019626.D

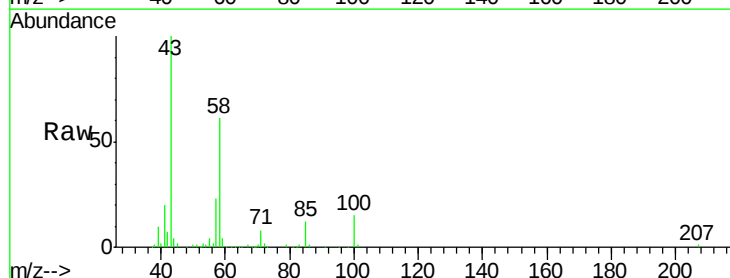
Acq: 25 Nov 2020 00:03

Tgt Ion: 43 Resp: 45527

Ion Ratio Lower Upper

43 100

58 64.3 30.6 91.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

30000

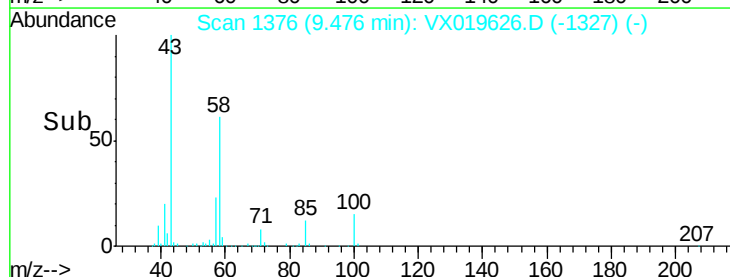
20000

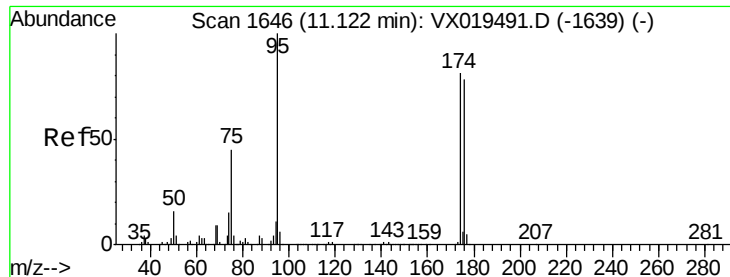
10000

0

9.45 9.50

Time-->





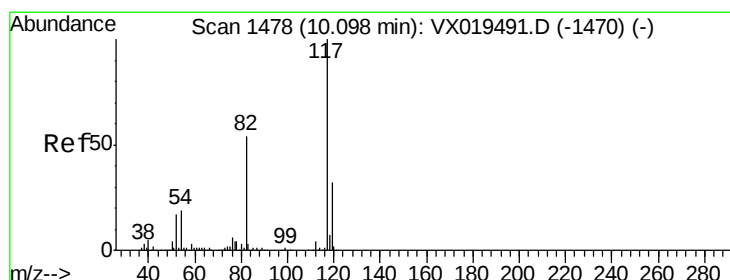
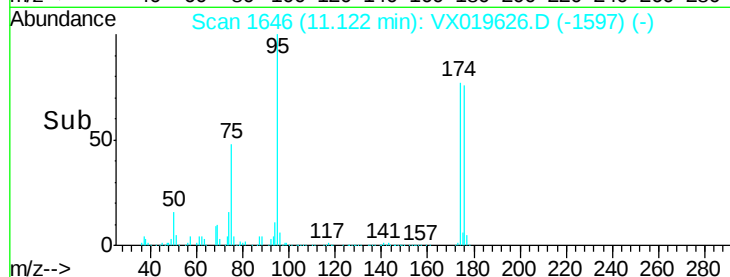
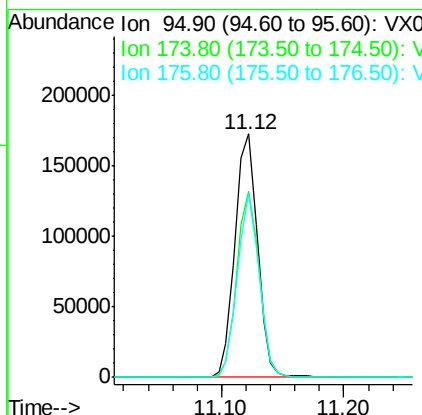
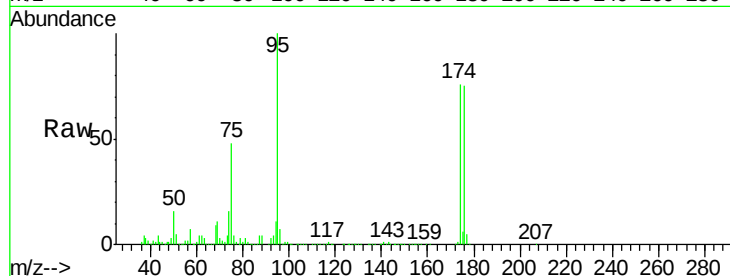
#62
4-Bromofluorobenzene
Concen: 50.408 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. -0.00 min
Lab File: VX019626.D
Acq: 25 Nov 2020 00:03

Instrument :
MSVOA_X
ClientSampleId :
40741

Tot Ion	Ratio	Resp	Lower	Upper
95	100	220055		
174	75.6	0.0	156.2	
176	72.7	0.0	151.4	

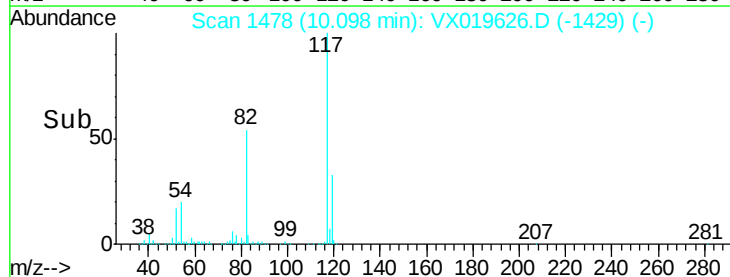
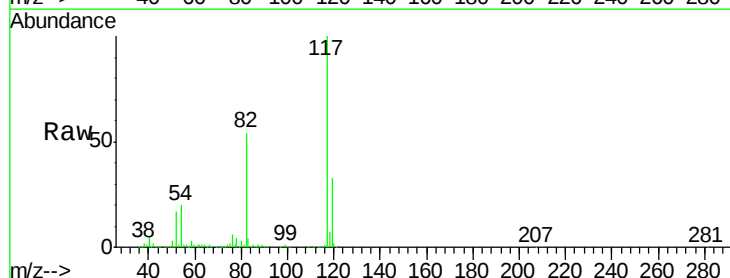
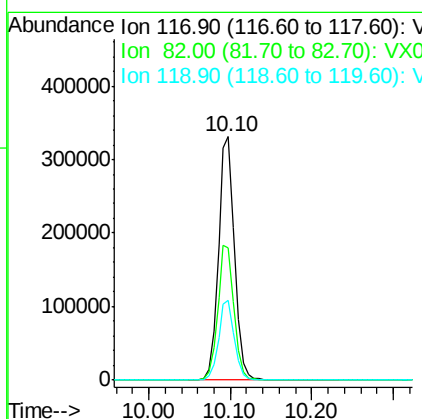
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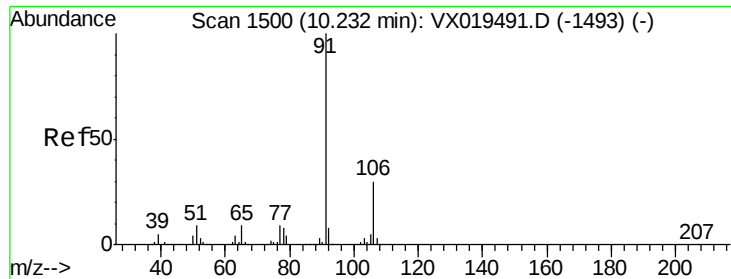
MMDadoda
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#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX019626.D
Acq: 25 Nov 2020 00:03

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	455990		
82	54.3	43.0	64.4	
119	32.6	25.6	38.4	





#67

Ethyl Benzene

Concen: 34.836 ug/l

RT: 10.23 min Scan# 1500

Delta R.T. -0.00 min

Lab File: VX019626.D

Acq: 25 Nov 2020 00:03

Instrument :

MSVOA_X

ClientSampled :
40741

Tot Ion: 91 Resp: 572138

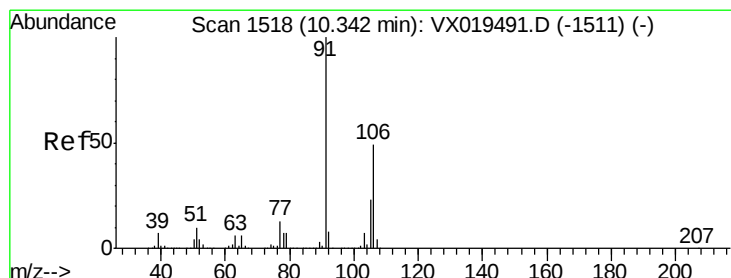
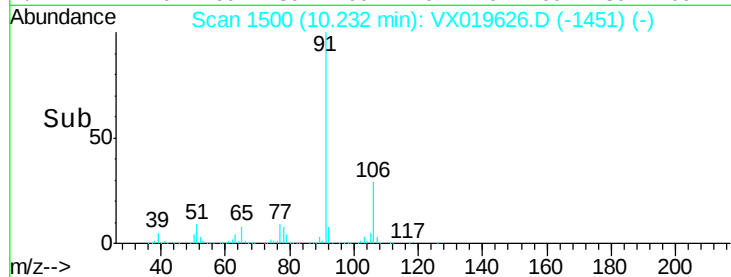
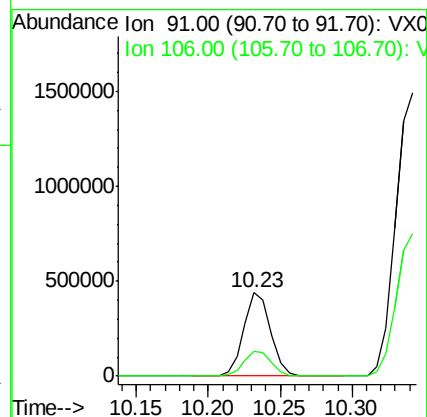
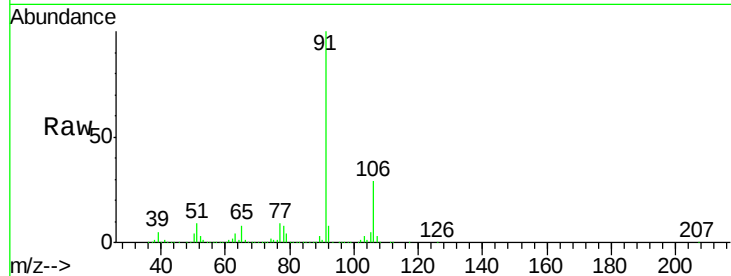
Ion Ratio Lower Upper

91 100

106 29.2 24.0 36.0

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#68

m/p-Xylenes

Concen: 164.052 ug/l

RT: 10.34 min Scan# 1518

Delta R.T. -0.00 min

Lab File: VX019626.D

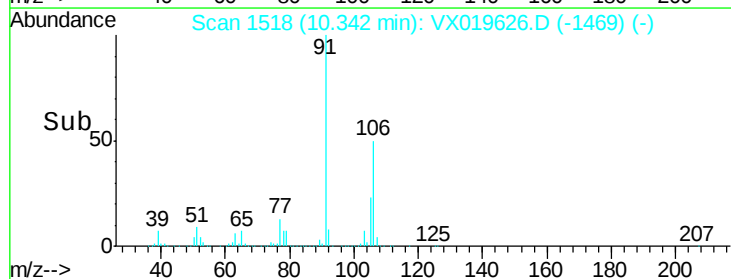
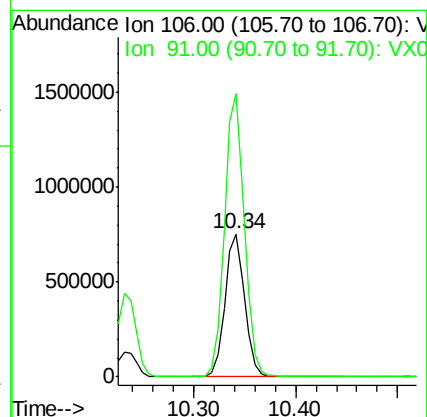
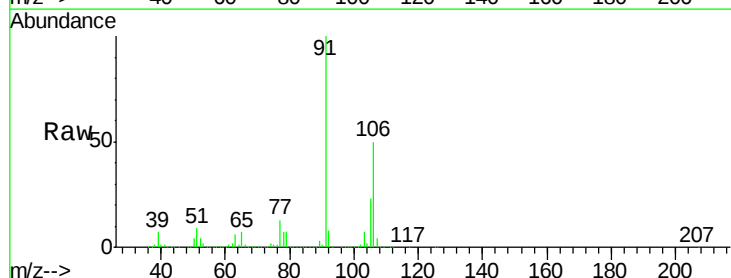
Acq: 25 Nov 2020 00:03

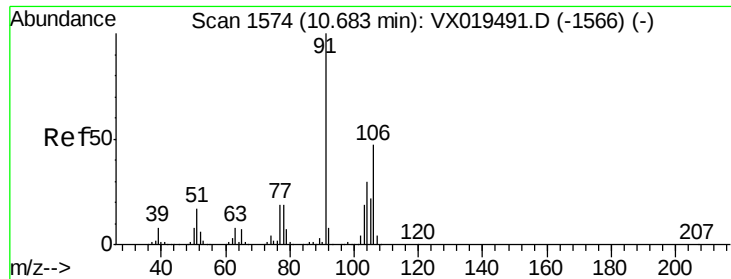
Tgt Ion: 106 Resp: 1003829

Ion Ratio Lower Upper

106 100

91 201.0 163.3 244.9





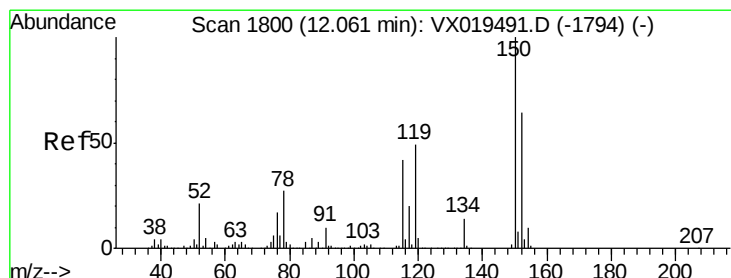
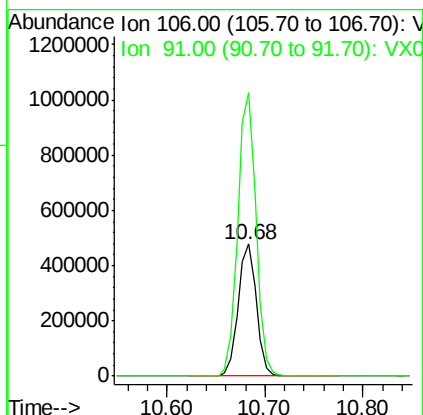
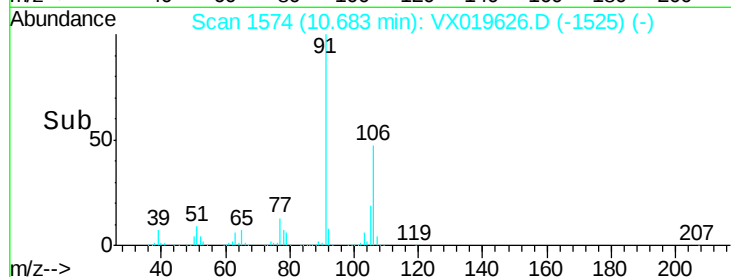
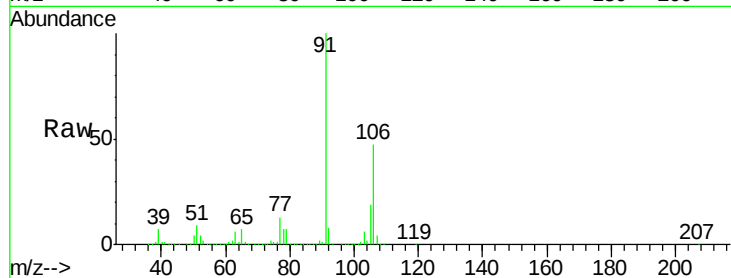
#69
o-Xylene
Concen: 105.195 ug/l
RT: 10.68 min Scan# 1574
Delta R.T. -0.00 min
Lab File: VX019626.D
Acq: 25 Nov 2020 00:03

Instrument :
MSVOA_X
ClientSampleId :
40741

Tot Ion:106 Resp: 615319
Ion Ratio Lower Upper
106 100
91 215.5 108.0 324.0

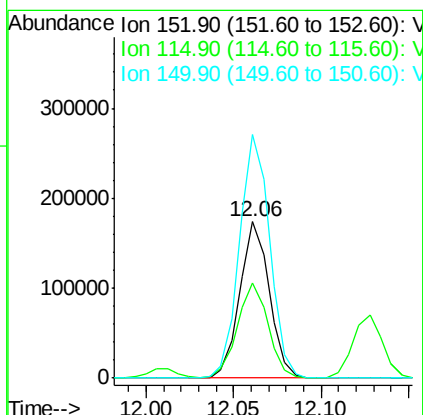
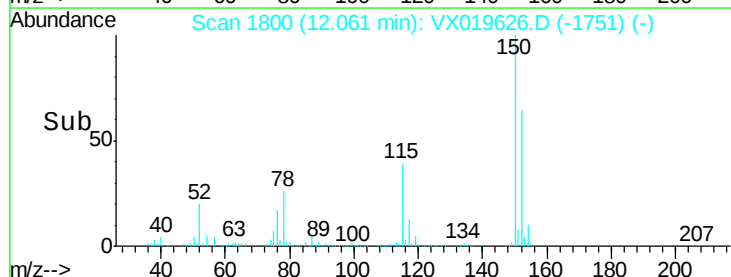
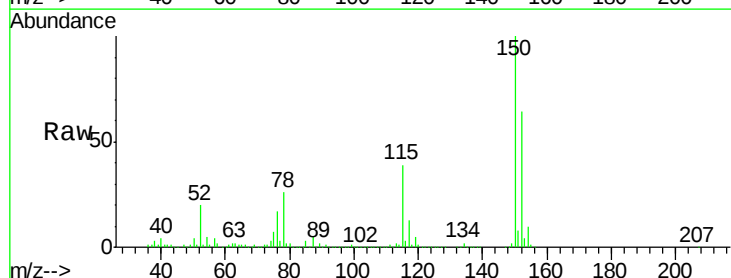
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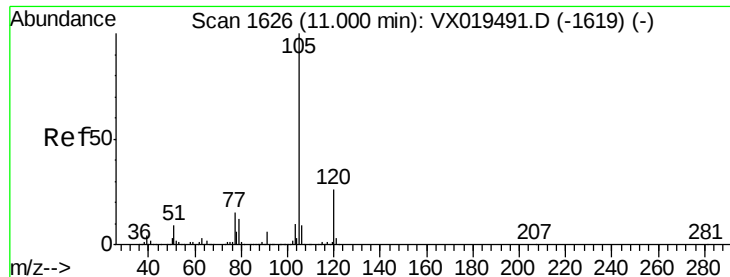
MMDadoda
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#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. -0.00 min
Lab File: VX019626.D
Acq: 25 Nov 2020 00:03

Tgt Ion:152 Resp: 204551
Ion Ratio Lower Upper
152 100
115 62.8 41.8 125.4
150 159.4 0.0 348.2





#73

Isopropylbenzene

Concen: 12.375 ug/l

RT: 11.00 min Scan# 1626

Delta R.T. -0.00 min

Lab File: VX019626.D

Acq: 25 Nov 2020 00:03

Instrument :

MSVOA_X

ClientSampleId :

40741

Tot Ion: 105 Resp: 175111

Ion Ratio Lower Upper

105 100

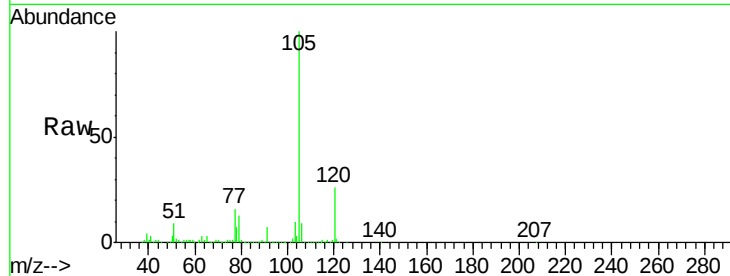
120 26.2 13.0 39.0

Manual Integrations

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

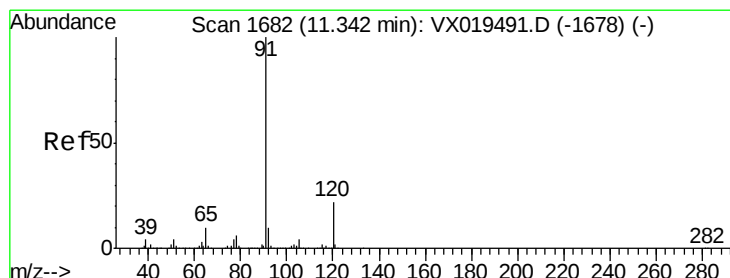
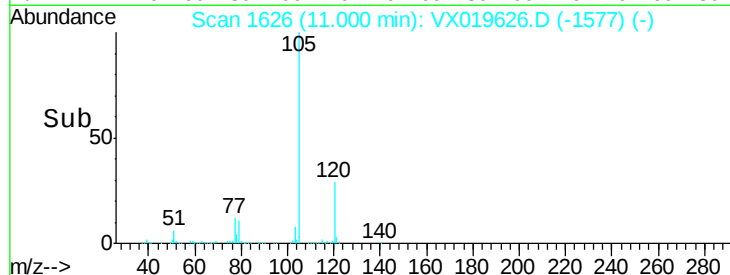
150000

100000

50000

0

Time--> 10.90 11.00 11.10



#78

n-propylbenzene

Concen: 50.024 ug/l

RT: 11.34 min Scan# 1682

Delta R.T. -0.00 min

Lab File: VX019626.D

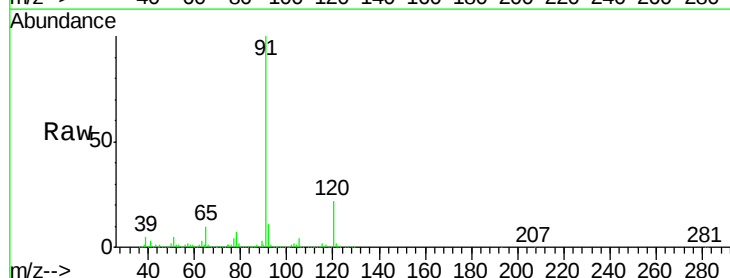
Acq: 25 Nov 2020 00:03

Tgt Ion: 91 Resp: 812045

Ion Ratio Lower Upper

91 100

120 22.6 11.5 34.4



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 120.00 (119.70 to 120.70): V

800000

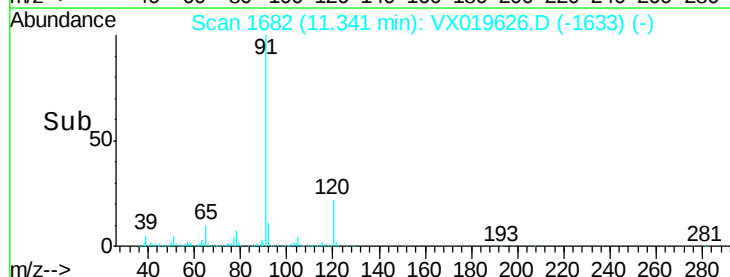
600000

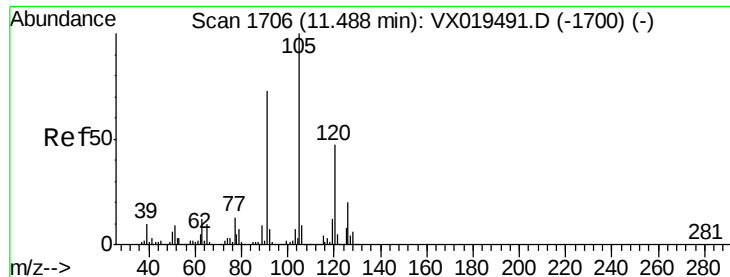
400000

200000

0

Time--> 11.30 11.35 11.40





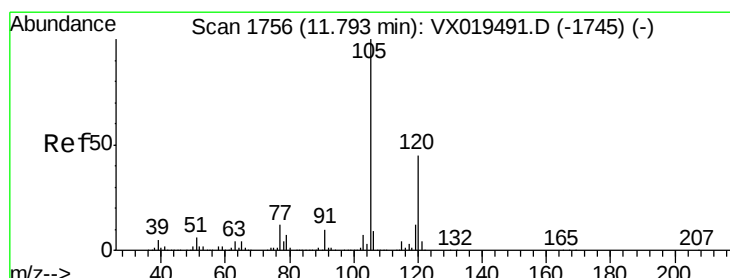
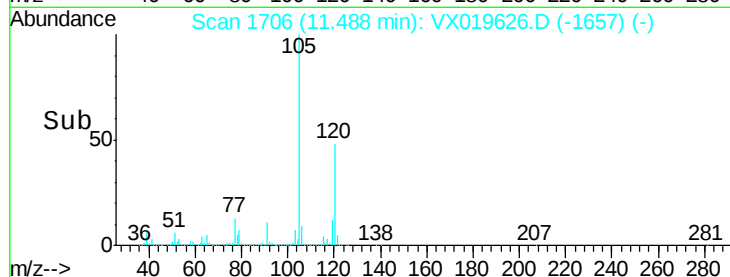
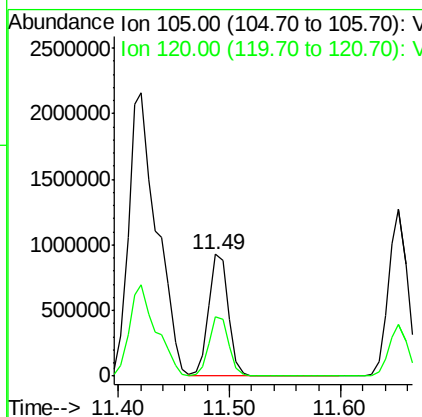
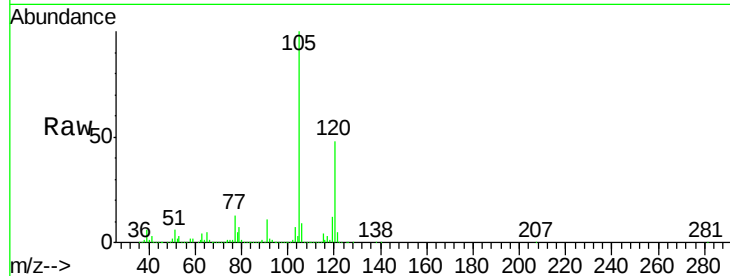
#80
 1,3,5-Trimethylbenzene
 Concen: 95.996 ug/l
 RT: 11.49 min Scan# 1706
 Delta R.T. -0.00 min
 Lab File: VX019626.D
 Acq: 25 Nov 2020 00:03

Instrument :
 MSVOA_X
 ClientSampled :
 40741

Tot Ion:105 Resp: 1139510
 Ion Ratio Lower Upper
 105 100
 120 48.8 24.1 72.3

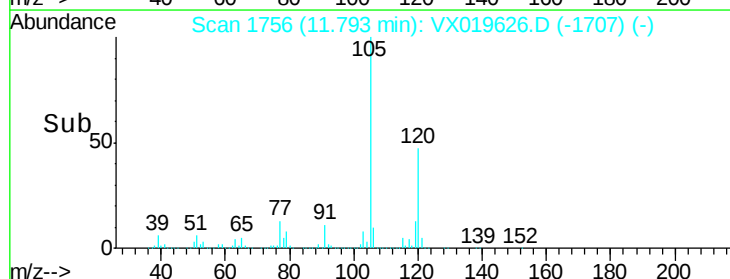
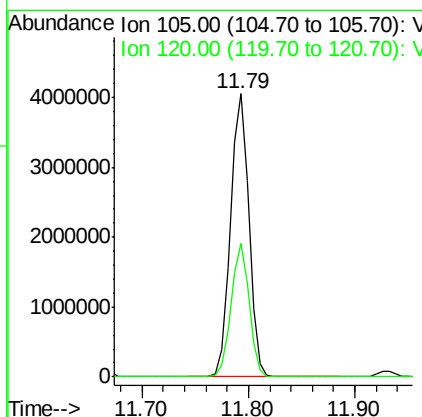
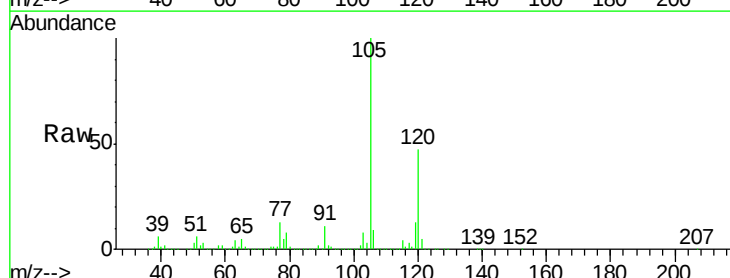
Manual Integrations
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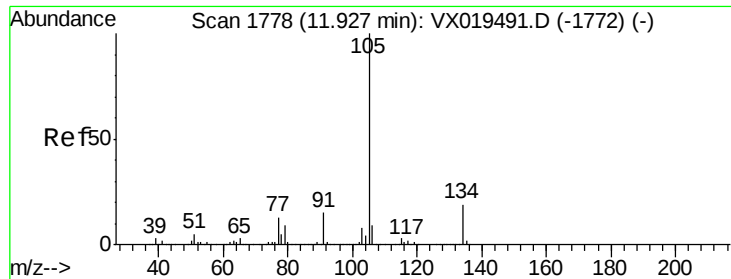
MMDadoda
 11/25/2020 9:54:51 AM



#84
 1,2,4-Trimethylbenzene
 Concen: 408.833 ug/l
 RT: 11.79 min Scan# 1756
 Delta R.T. -0.00 min
 Lab File: VX019626.D
 Acq: 25 Nov 2020 00:03

Tgt Ion:105 Resp: 4910338
 Ion Ratio Lower Upper
 105 100
 120 46.3 22.2 66.6





#85

sec-Butylbenzene

Concen: 7.952 ug/l m

RT: 11.93 min Scan# 1778

Delta R.T. -0.00 min

Lab File: VX019626.D

Acq: 25 Nov 2020 00:03

Instrument :

MSVOA_X

ClientSampleId :

40741

Tot Ion:105 Resp: 108645

Ion Ratio Lower Upper

105 100

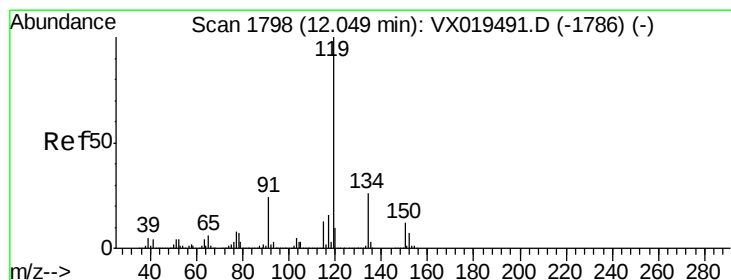
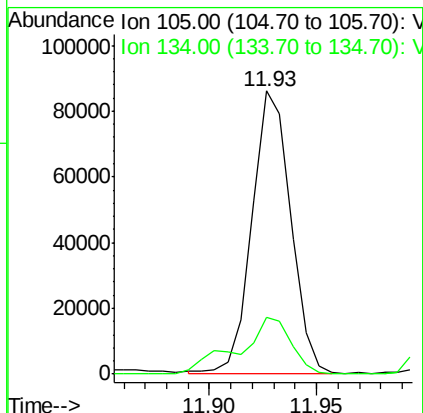
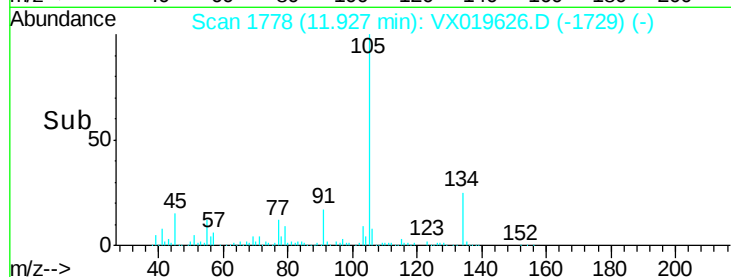
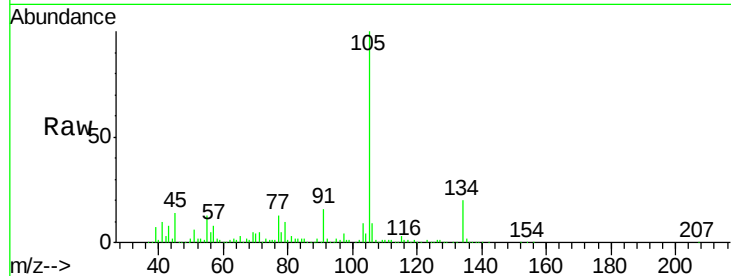
134 0.0 10.1 30.3#

Manual Integrations

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#86

p-Isopropyltoluene

Concen: 5.653 ug/l

RT: 12.05 min Scan# 1798

Delta R.T. -0.00 min

Lab File: VX019626.D

Acq: 25 Nov 2020 00:03

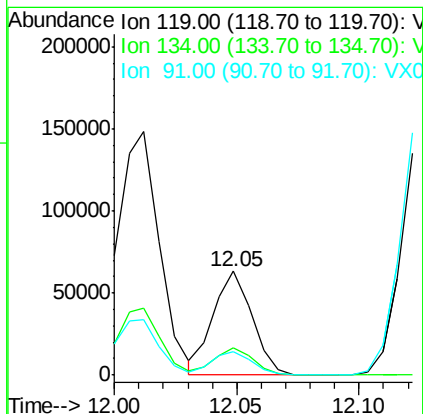
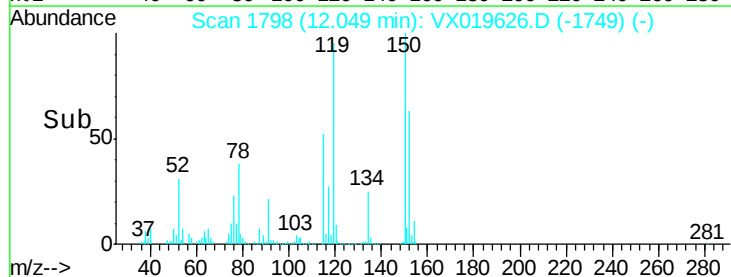
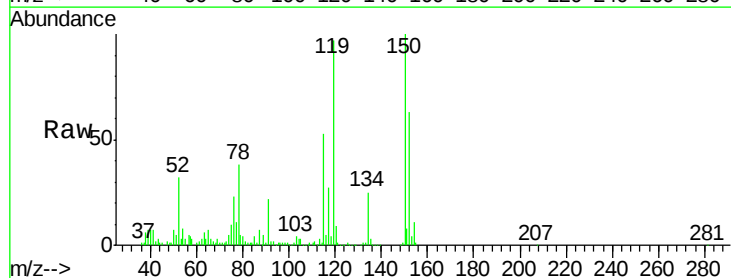
Tgt Ion:119 Resp: 70125

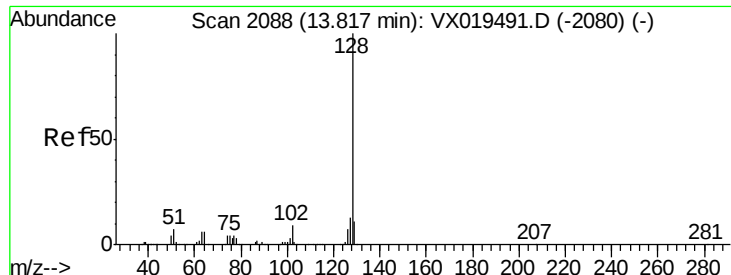
Ion Ratio Lower Upper

119 100

134 26.3 13.1 39.3

91 23.6 11.8 35.4





#95
Naphthalene
Concen: 183.303 ug/l
RT: 13.82 min Scan# 2088
Delta R.T. 0.00 min
Lab File: VX019626.D
Acq: 25 Nov 2020 00:03

Instrument :
MSVOA_X
ClientSampled :
40741

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.3	15.5
129	11.2	8.7	13.1

Manual Integrations
APPROVED

MMDadoda
11/25/2020 9:54:51 AM

