

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX112520\
 Data File : VX019659.D
 Acq On : 25 Nov 2020 16:18
 Operator : JC/MD
 Sample : L4841-02 5X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 16855

Manual Integrations
 APPROVED

MMDadoda
 11/30/2020 9:54:00 AM

Quant Time: Nov 26 06:40:09 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	307957	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	504083	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	448283	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	211466	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.03	65	187092	46.86	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	93.72%
35) Dibromofluoromethane	5.46	113	148714	47.00	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	94.00%
50) Toluene-d8	8.70	98	599757	48.78	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	97.56%
62) 4-Bromofluorobenzene	11.12	95	215068	48.62	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	97.24%

Target Compounds

					Qvalue
11) Tert butyl alcohol	3.03	59	4051m	5.361	ug/l
16) Acetone	2.42	43	479712	310.667	ug/l
20) Methylene Chloride	2.84	84	1316	0.341	ug/l #
25) 2-Butanone	4.64	43	32763	14.125	ug/l
31) Cyclohexane	5.53	56	2510	0.483	ug/l #
39) Methylcyclohexane	7.43	83	3471	0.631	ug/l
40) Benzene	6.11	78	26387	1.817	ug/l
51) 4-Methyl-2-Pentanone	8.62	43	1760	0.405	ug/l
52) Toluene	8.76	92	83420	9.391	ug/l
64) Tetrachloroethene	9.32	164	726	0.206	ug/l
67) Ethyl Benzene	10.23	91	24766	1.534	ug/l
68) m/p-Xylenes	10.34	106	49123	8.166	ug/l
69) o-Xylene	10.68	106	23954	4.166	ug/l
73) Isopropylbenzene	11.00	105	6564	0.449	ug/l
78) n-propylbenzene	11.34	91	22747	1.355	ug/l
80) 1,3,5-Trimethylbenzene	11.49	105	51079	4.162	ug/l
84) 1,2,4-Trimethylbenzene	11.79	105	194587	15.671	ug/l
85) sec-Butylbenzene	11.93	105	6327	0.448	ug/l
86) p-Isopropyltoluene	12.05	119	5475	0.427	ug/l
89) n-Butylbenzene	12.36	91	22410	1.933	ug/l #
95) Naphthalene	13.82	128	314690	21.474	ug/l

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

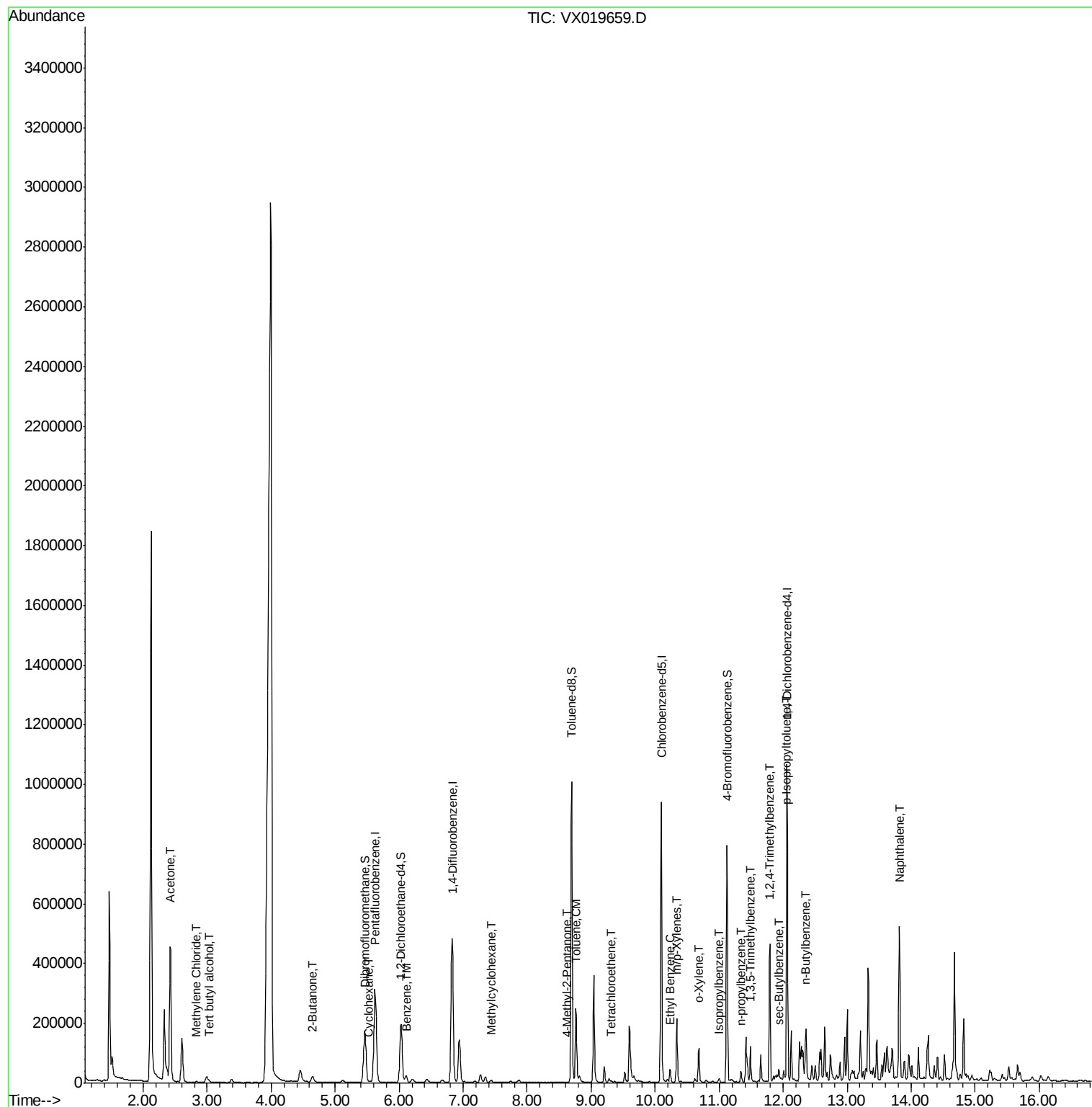
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX112520\
Data File : VX019659.D
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ALS Vial : 15 Sample Multiplier: 1

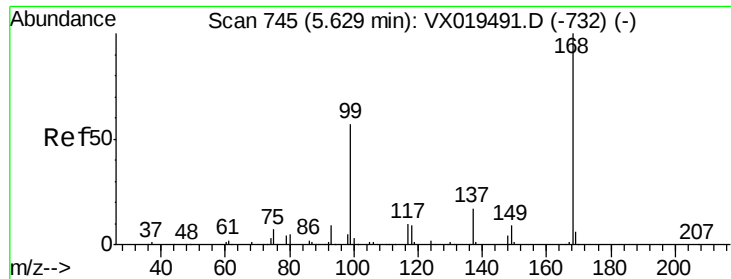
Instrument :
MSVOA_X
ClientSampleId :
16855

Manual Integrations
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11/30/2020 9:54:00 AM

Quant Time: Nov 26 06:40:09 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: VX019659.D

Acq: 25 Nov 2020 16:18

Instrument :

MSVOA_X

ClientSampleId :

16855

Tot Ion:168 Resp: 307957

Ion Ratio Lower Upper

168 100

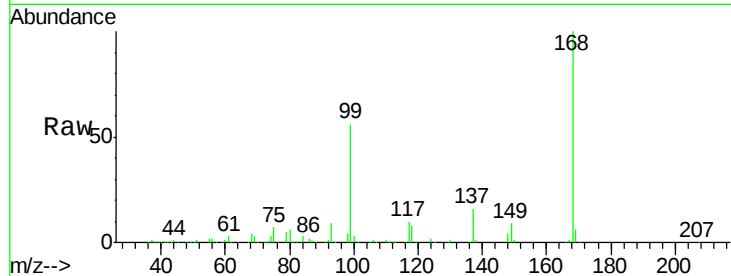
99 56.0 45.8 68.6

Manual Integrations

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11/30/2020 9:54:00 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

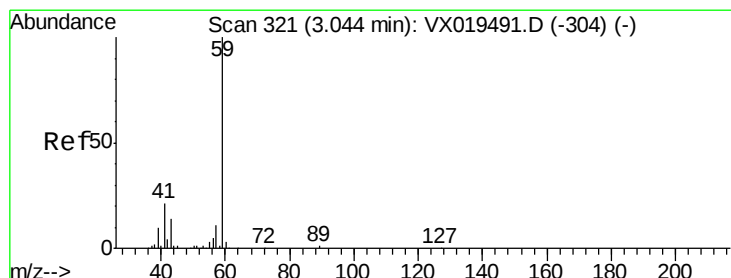
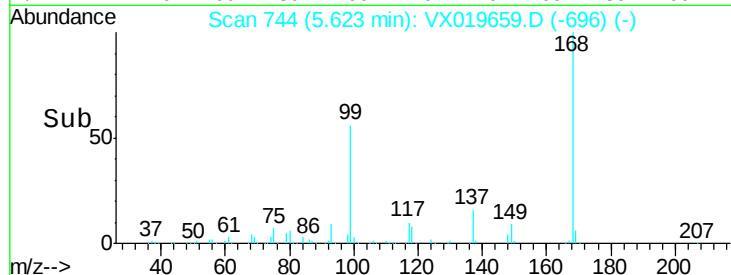
60000

40000

20000

0

Time-->



#11

Tert butyl alcohol

Concen: 5.361 ug/l m

RT: 3.03 min Scan# 319

Delta R.T. -0.01 min

Lab File: VX019659.D

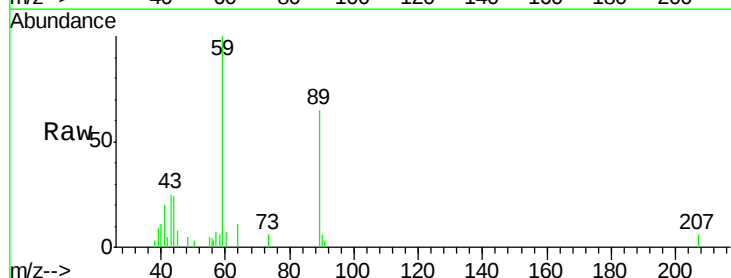
Acq: 25 Nov 2020 16:18

Tgt Ion: 59 Resp: 4051

Ion Ratio Lower Upper

59 100

57 3.0 7.9 11.9#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

6000

5000

4000

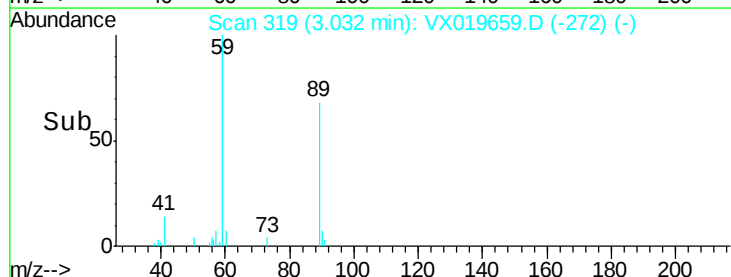
3000

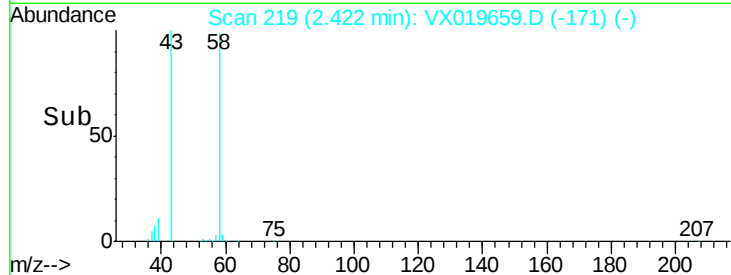
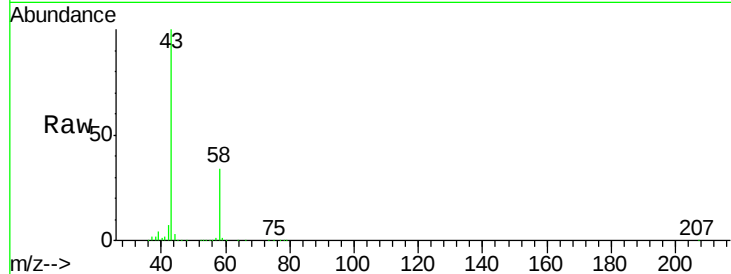
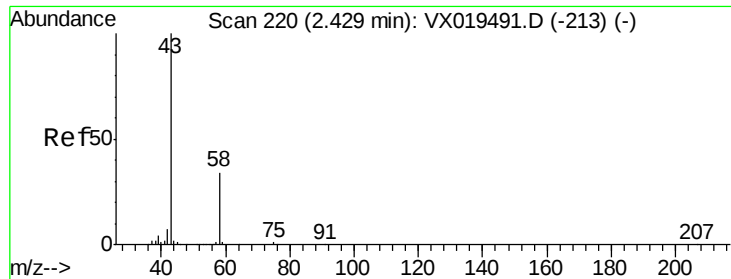
2000

1000

0

Time-->





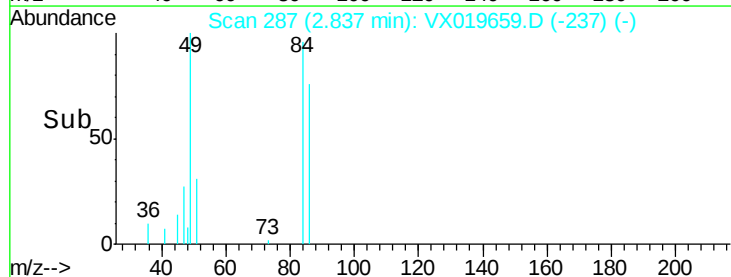
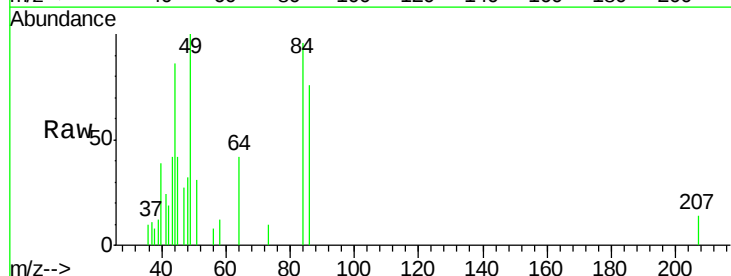
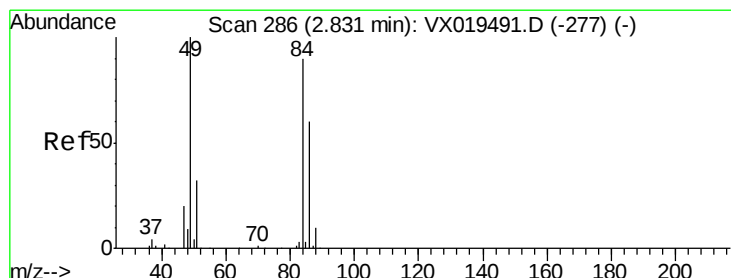
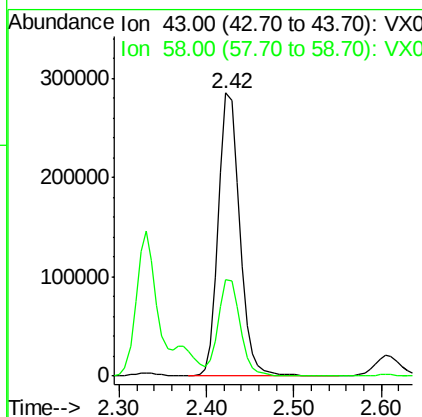
#16
Acetone
Concen: 310.667 ug/l
RT: 2.42 min Scan# 219
Delta R.T. -0.01 min
Lab File: VX019659.D
Acq: 25 Nov 2020 16:18

Tot Ion: 43 Resp: 479712
Ion Ratio Lower Upper
43 100
58 33.9 27.4 41.2

Instrument :
MSVOA_X
ClientSampleId :
16855

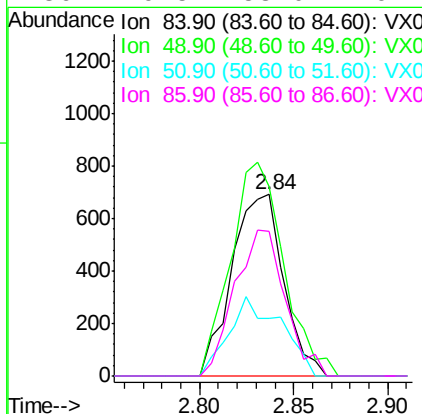
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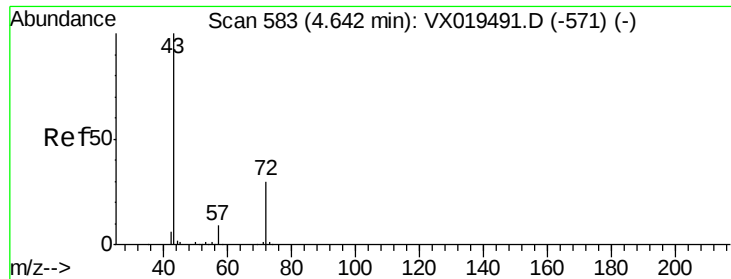
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#20
Methylene Chloride
Concen: 0.341 ug/l
RT: 2.84 min Scan# 287
Delta R.T. 0.01 min
Lab File: VX019659.D
Acq: 25 Nov 2020 16:18

Tgt Ion: 84 Resp: 1316
Ion Ratio Lower Upper
84 100
49 104.3 88.5 132.7
51 32.1 28.0 42.0
86 79.5 53.0 79.4#





#25

2-Butanone

Concen: 14.125 ug/l

RT: 4.64 min Scan# 583

Delta R.T. -0.00 min

Lab File: VX019659.D

Acq: 25 Nov 2020 16:18

Instrument :

MSVOA_X

ClientSampleId :

16855

Tot Ion: 43 Resp: 32763

Ion Ratio Lower Upper

43 100

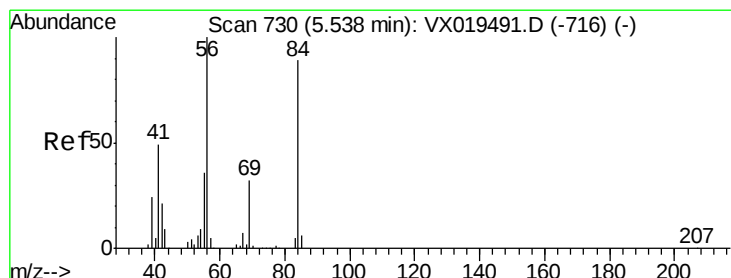
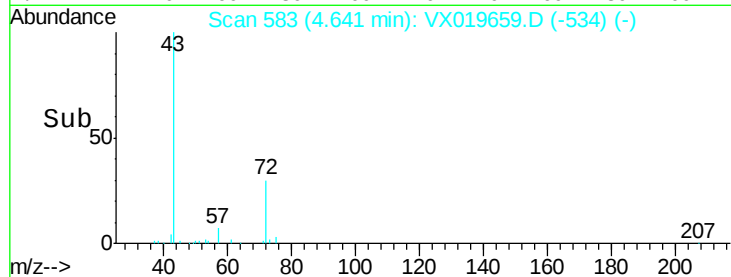
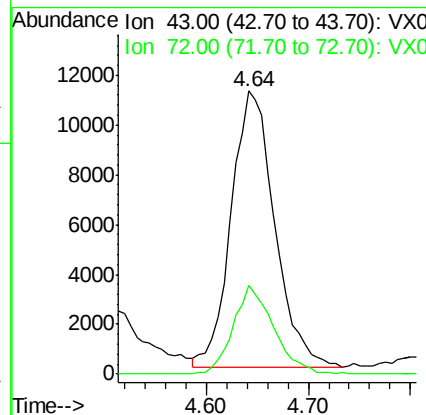
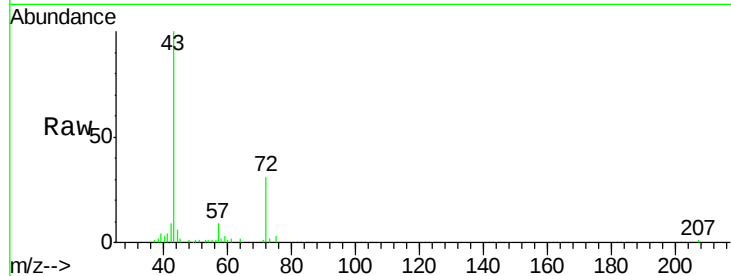
72 32.3 24.0 36.0

Manual Integrations

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#31

Cyclohexane

Concen: 0.483 ug/l

RT: 5.53 min Scan# 729

Delta R.T. -0.01 min

Lab File: VX019659.D

Acq: 25 Nov 2020 16:18

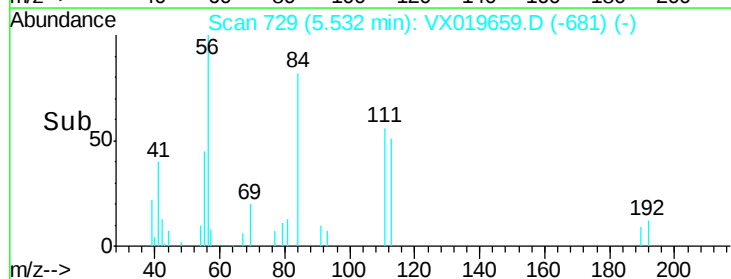
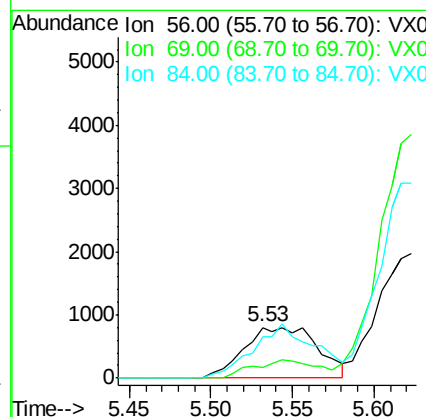
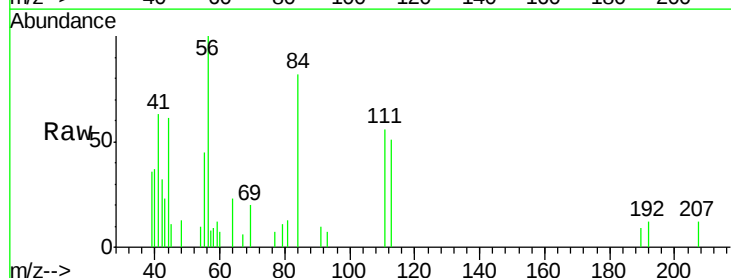
Tgt Ion: 56 Resp: 2510

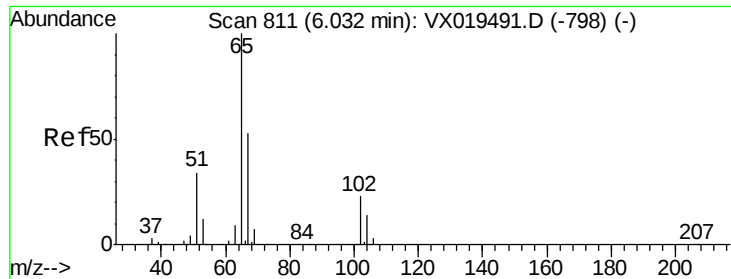
Ion Ratio Lower Upper

56 100

69 20.2 25.5 38.3#

84 82.3 71.1 106.7





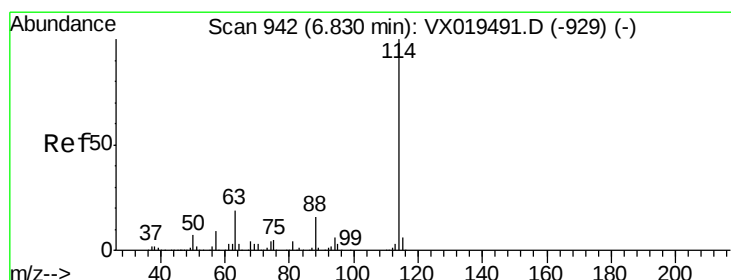
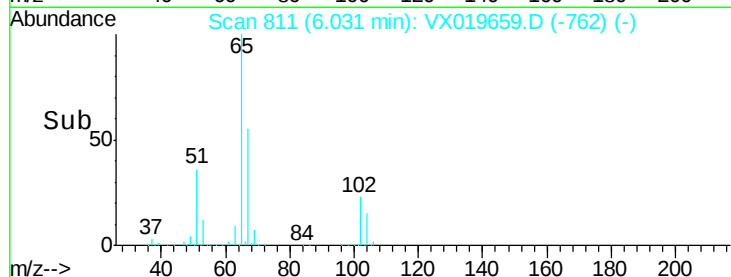
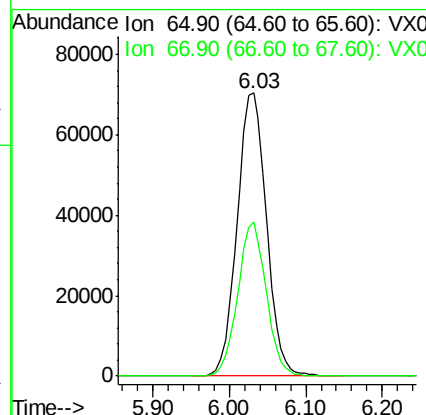
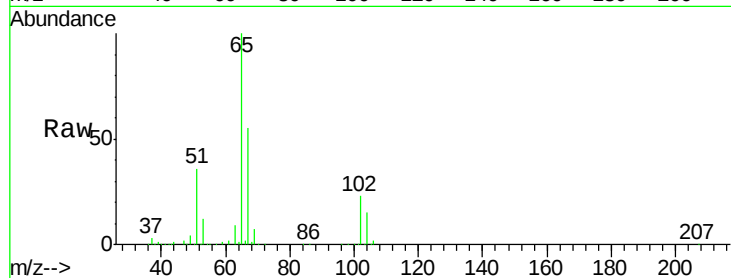
#33
 1,2-Dichloroethane-d4
 Concen: 46.856 ug/l
 RT: 6.03 min Scan# 811
 Delta R.T. -0.00 min
 Lab File: VX019659.D
 Acq: 25 Nov 2020 16:18

Instrument :
 MSVOA_X
 ClientSampleId :
 16855

Tot Ion	Ratio	Resp	Lower	Upper
65	100	187092		
67	52.8	0.0	0.0	105.0

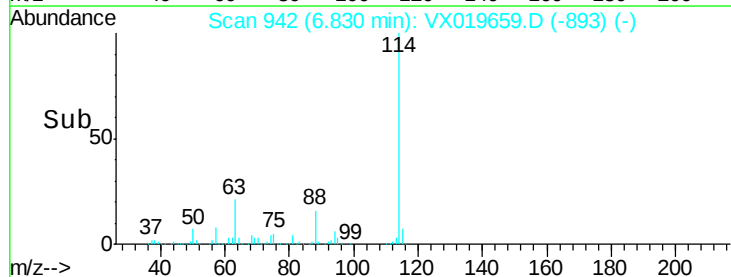
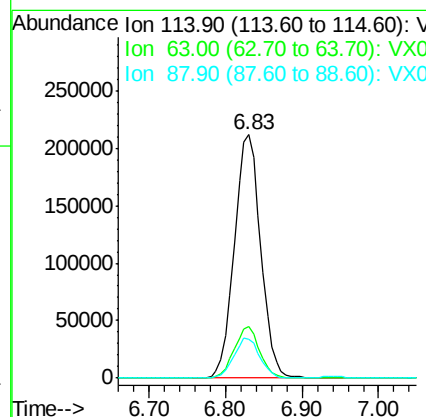
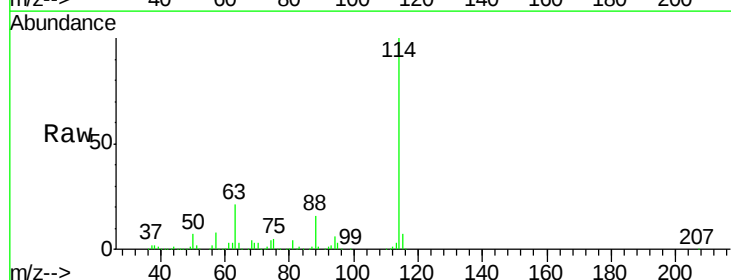
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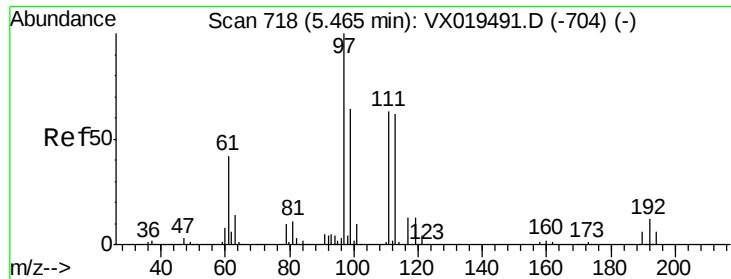
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 11/30/2020 9:54:00 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.83 min Scan# 942
 Delta R.T. -0.00 min
 Lab File: VX019659.D
 Acq: 25 Nov 2020 16:18

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	504083		
63	21.0	0.0	0.0	38.8
88	16.2	0.0	0.0	31.6





#35

Dibromofluoromethane

Concen: 47.000 ug/l

RT: 5.46 min Scan# 718

Delta R.T. -0.00 min

Lab File: VX019659.D

Acq: 25 Nov 2020 16:18

Instrument :

MSVOA_X

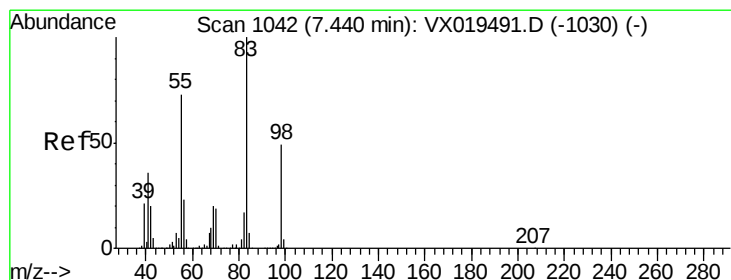
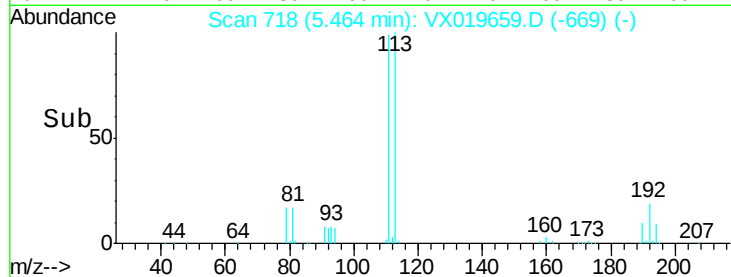
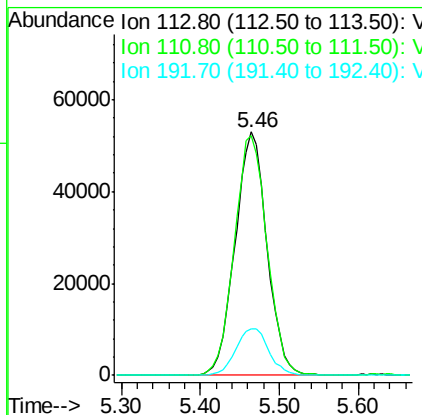
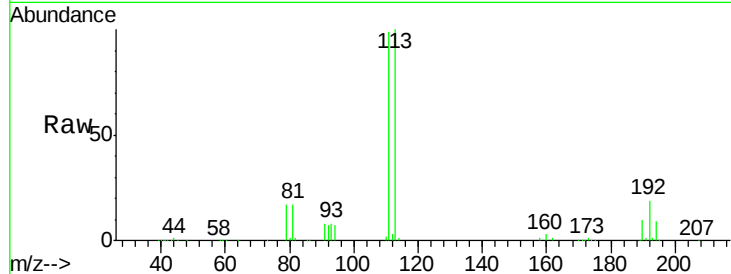
ClientSampleId :

16855

Tot Ion:	113	Resp:	148714
Ion Ratio	Lower	Upper	
113	100		
111	101.1	81.5	122.3
192	19.8	16.2	24.2

Manual Integrations
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11/30/2020 9:54:00 AM



#39

Methylcyclohexane

Concen: 0.631 ug/l

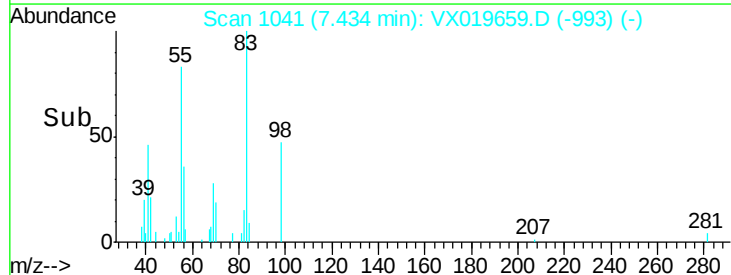
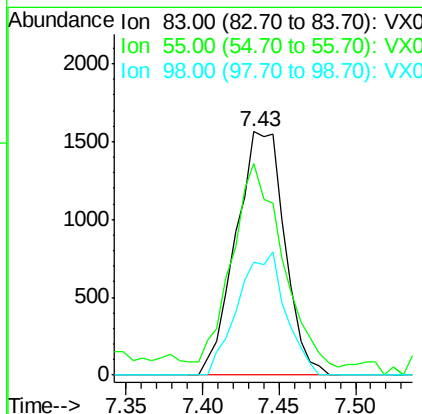
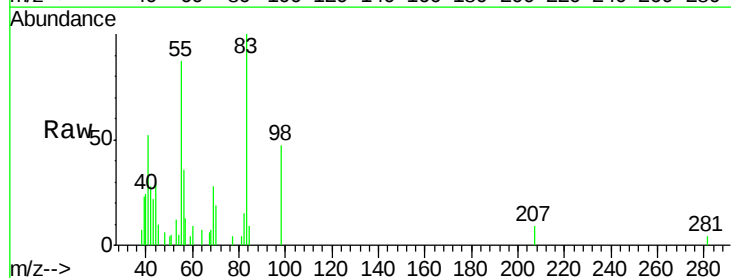
RT: 7.43 min Scan# 1041

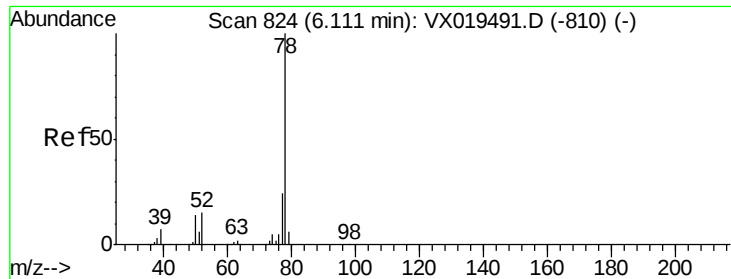
Delta R.T. -0.01 min

Lab File: VX019659.D

Acq: 25 Nov 2020 16:18

Tgt Ion:	83	Resp:	3471
Ion Ratio	Lower	Upper	
83	100		
55	83.3	58.3	87.5
98	46.7	38.9	58.3





#40

Benzene

Concen: 1.817 ug/l

RT: 6.11 min Scan# 824

Delta R.T. -0.00 min

Lab File: VX019659.D

Acq: 25 Nov 2020 16:18

Instrument :

MSVOA_X

ClientSampleId :

16855

Tot Ion: 78 Resp: 26387

Ion Ratio Lower Upper

78 100

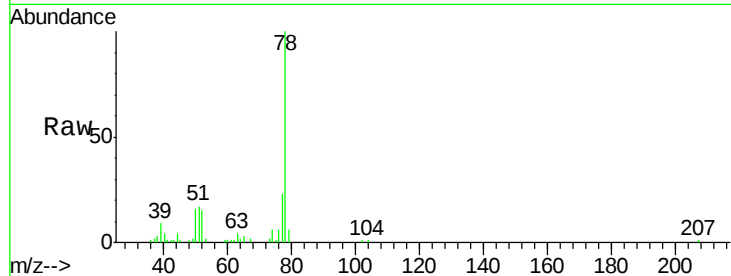
77 23.0 18.9 28.3

Manual Integrations

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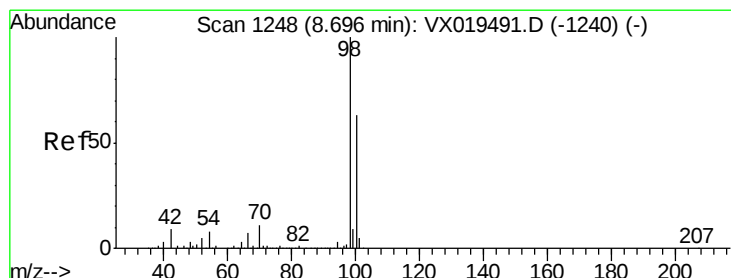
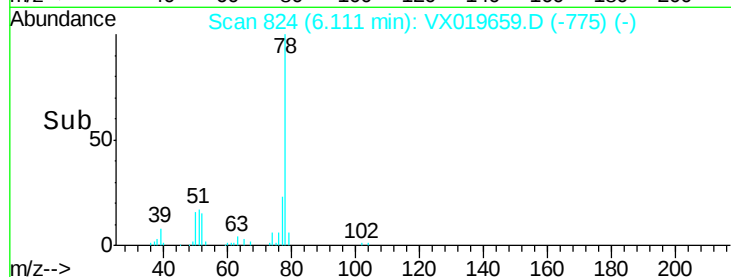
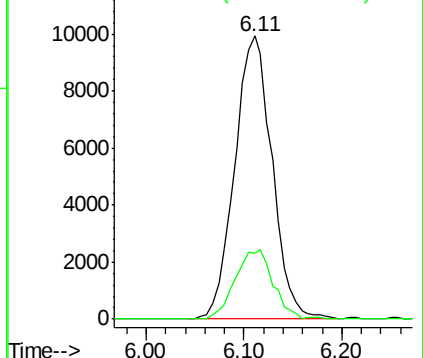
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11/30/2020 9:54:00 AM



Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0



#50

Toluene-d8

Concen: 48.779 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX019659.D

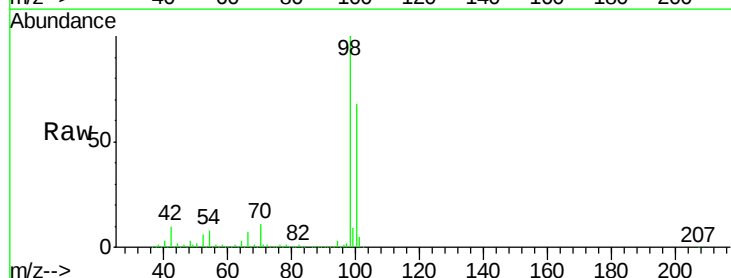
Acq: 25 Nov 2020 16:18

Tgt Ion: 98 Resp: 599757

Ion Ratio Lower Upper

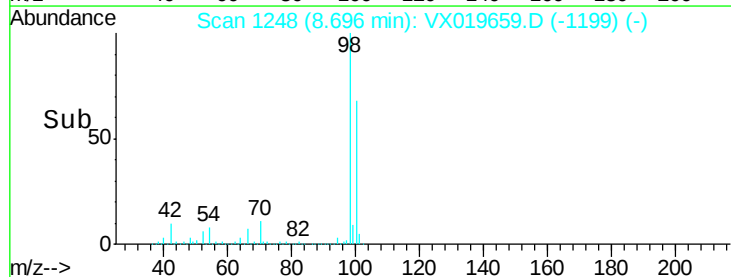
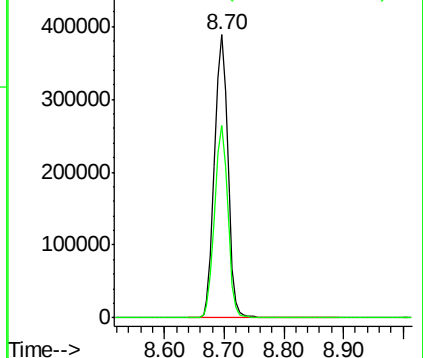
98 100

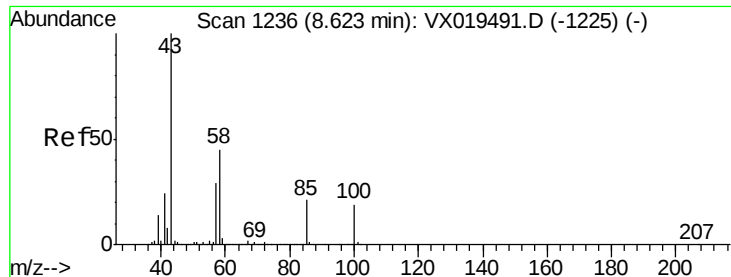
100 66.9 52.4 78.6



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0





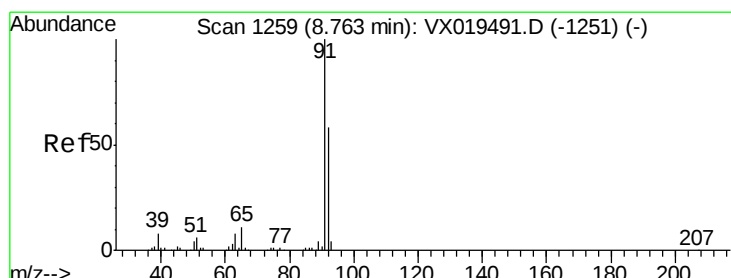
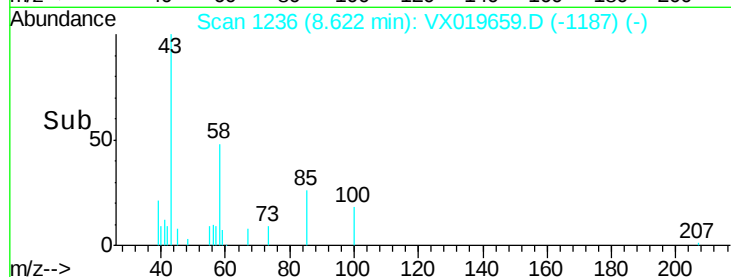
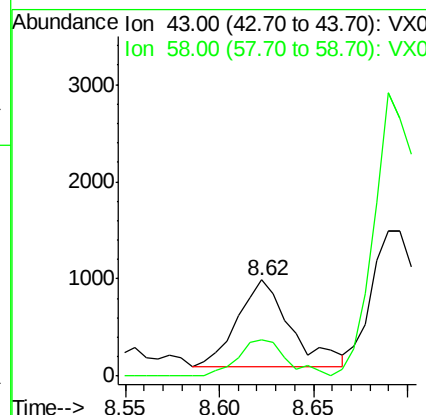
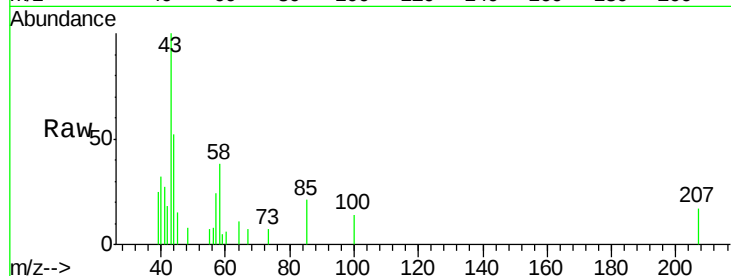
#51
 4-Methyl-2-Pentanone
 Concen: 0.405 ug/l
 RT: 8.62 min Scan# 1236
 Delta R.T. -0.00 min
 Lab File: VX019659.D
 Acq: 25 Nov 2020 16:18

Instrument :
 MSVOA_X
 ClientSampleId :
 16855

Tot Ion: 43 Resp: 1760
 Ion Ratio Lower Upper
 43 100
 58 38.5 35.1 52.7

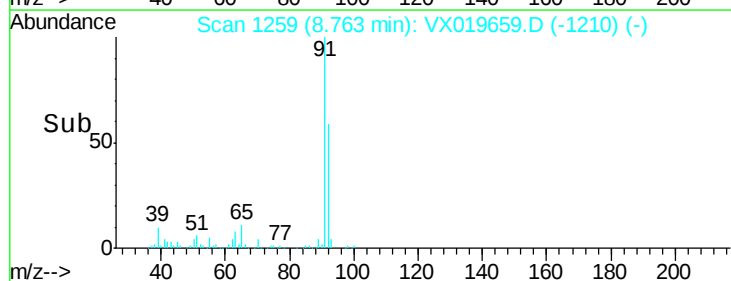
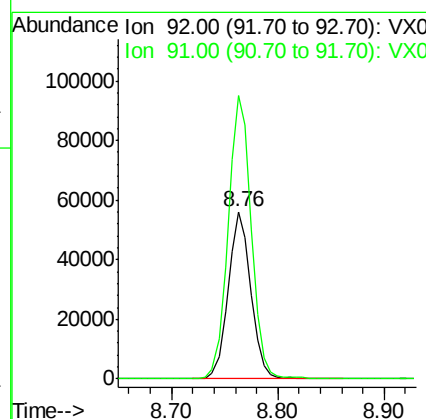
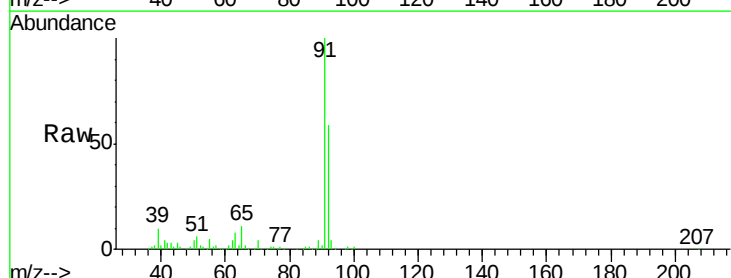
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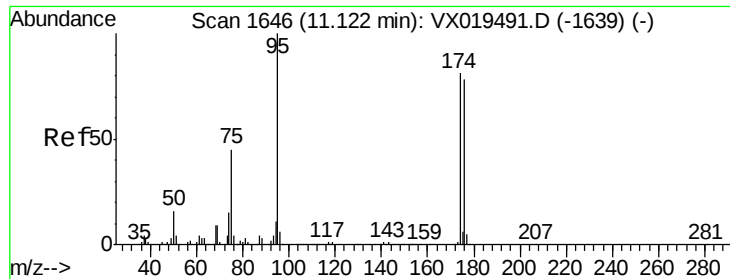
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#52
 Toluene
 Concen: 9.391 ug/l
 RT: 8.76 min Scan# 1259
 Delta R.T. -0.00 min
 Lab File: VX019659.D
 Acq: 25 Nov 2020 16:18

Tgt Ion: 92 Resp: 83420
 Ion Ratio Lower Upper
 92 100
 91 173.2 138.1 207.1





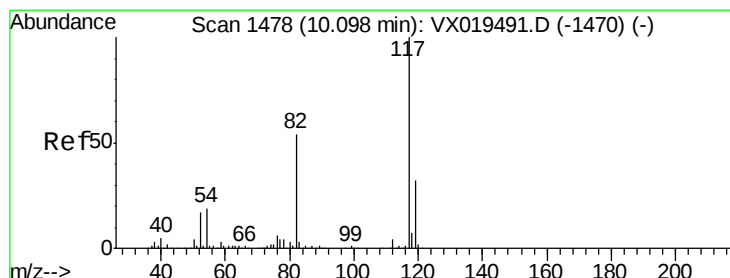
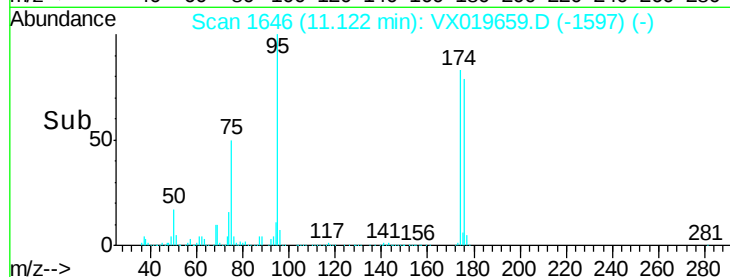
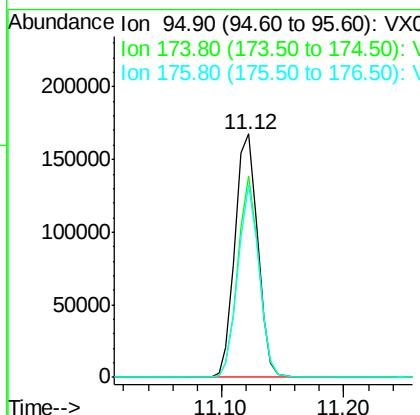
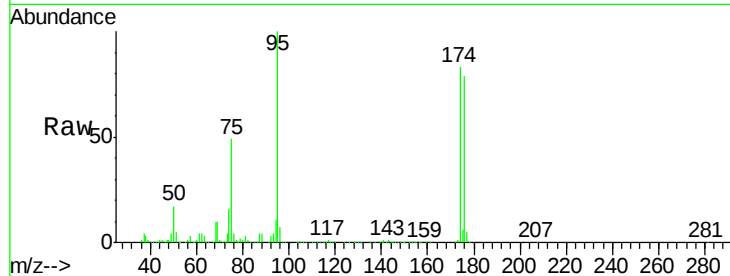
#62
4-Bromofluorobenzene
Concen: 48.617 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. -0.00 min
Lab File: VX019659.D
Acq: 25 Nov 2020 16:18

Instrument :
MSVOA_X
ClientSampled :
16855

Tot Ion	Ratio	Resp	Lower	Upper
95	100	215068		
174	76.4	0.0	156.2	
176	73.8	0.0	151.4	

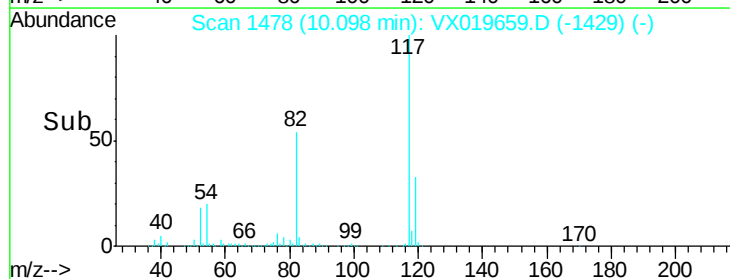
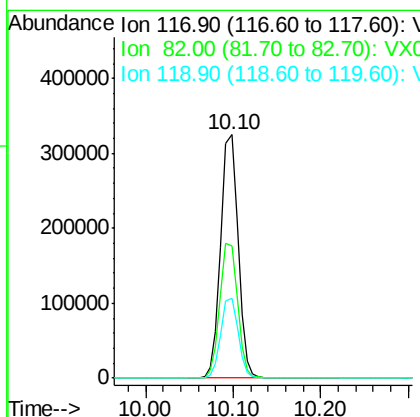
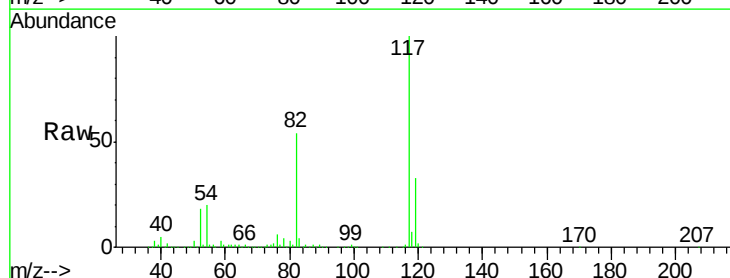
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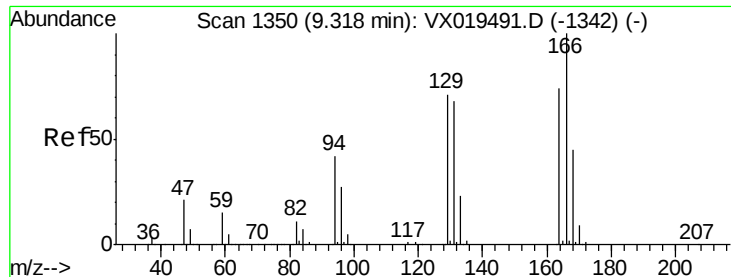
MMDadoda
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#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX019659.D
Acq: 25 Nov 2020 16:18

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	448283		
82	54.4	43.0	64.4	
119	32.5	25.6	38.4	





#64

Tetrachloroethene

Concen: 0.206 ug/l

RT: 9.32 min Scan# 1350

Delta R.T. -0.00 min

Lab File: VX019659.D

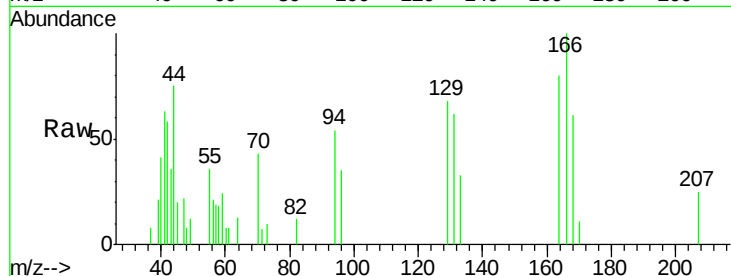
Acq: 25 Nov 2020 16:18

Instrument :

MSVOA_X

ClientSampled :

16855



Tot Ion:164 Resp: 726

Ion Ratio Lower Upper

164 100

166 124.5 107.4 161.0

129 84.1 76.6 114.8

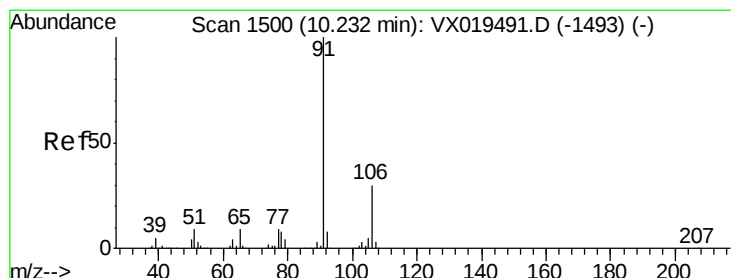
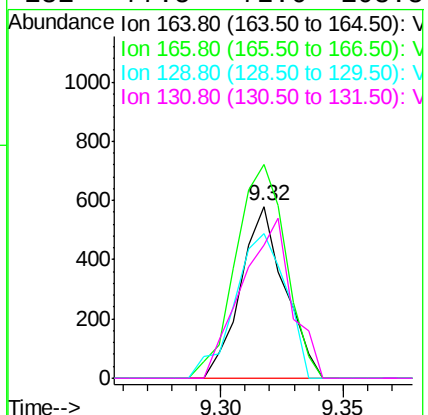
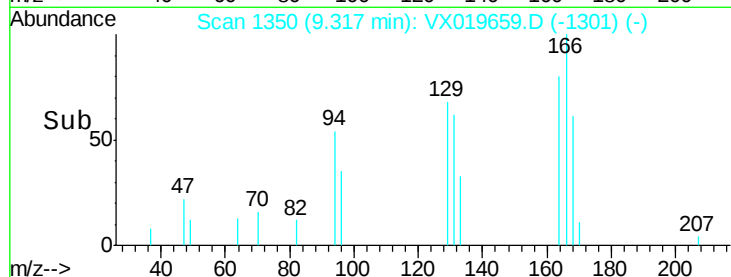
131 77.5 72.6 108.8

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#67

Ethyl Benzene

Concen: 1.534 ug/l

RT: 10.23 min Scan# 1500

Delta R.T. -0.00 min

Lab File: VX019659.D

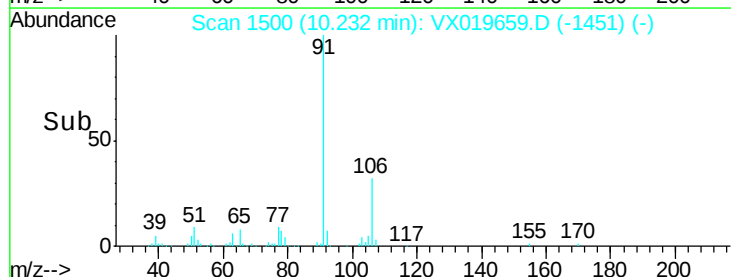
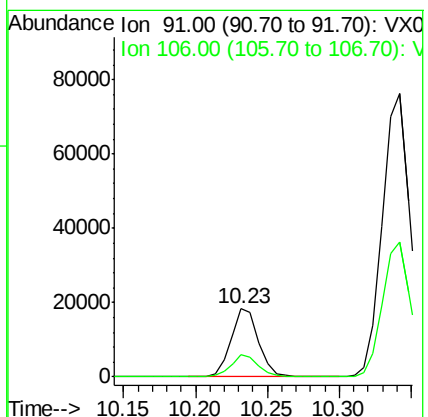
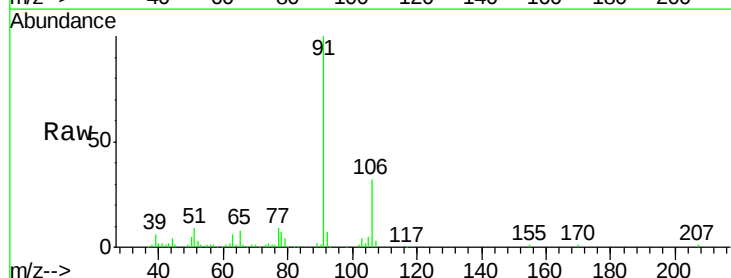
Acq: 25 Nov 2020 16:18

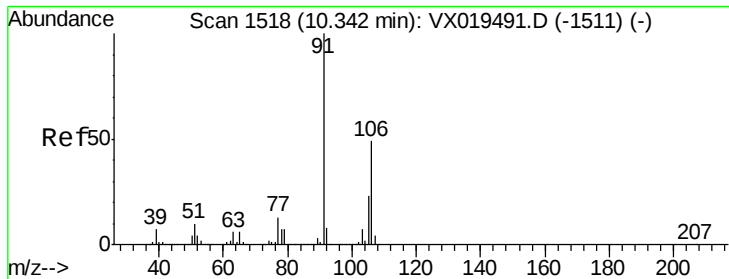
Tgt Ion: 91 Resp: 24766

Ion Ratio Lower Upper

91 100

106 31.8 24.0 36.0





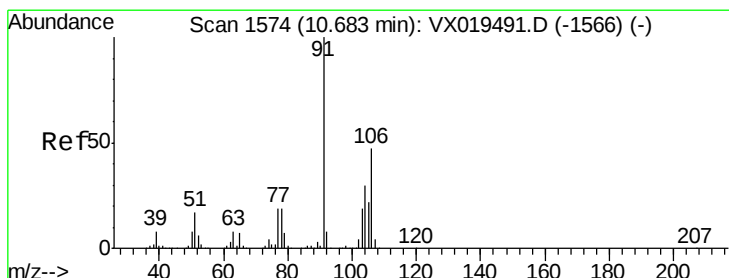
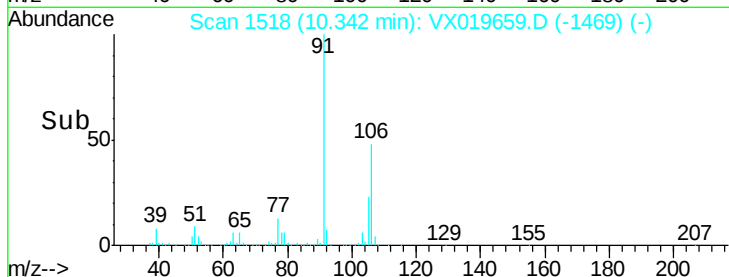
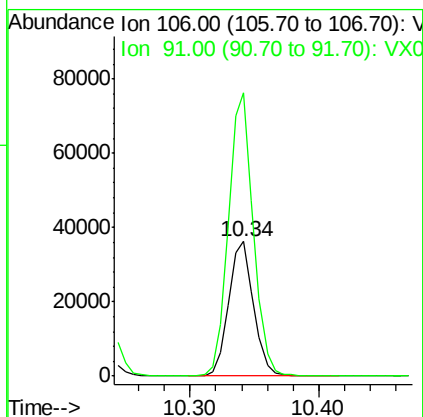
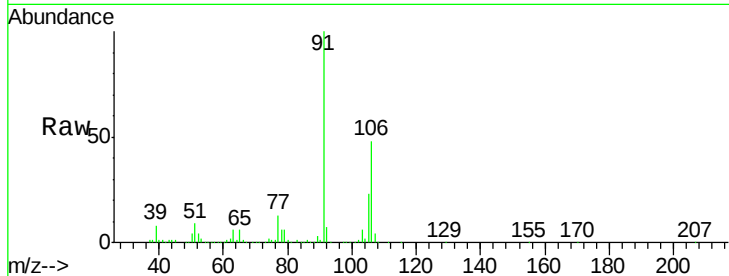
#68
m/p-Xylenes
Concen: 8.166 ug/l
RT: 10.34 min Scan# 1518
Delta R.T. -0.00 min
Lab File: VX019659.D
Acq: 25 Nov 2020 16:18

Instrument :
MSVOA_X
ClientSampled :
16855

Tot Ion:106 Resp: 49123
Ion Ratio Lower Upper
106 100
91 210.0 163.3 244.9

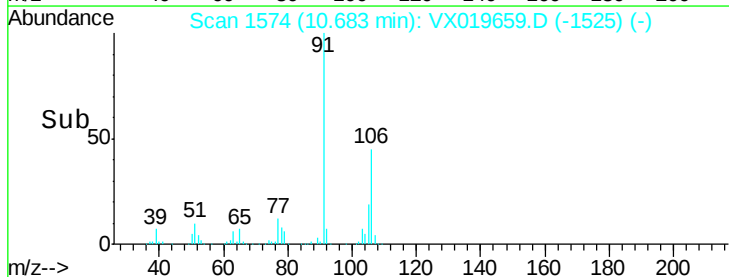
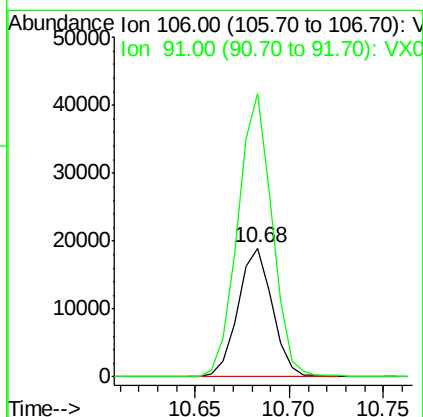
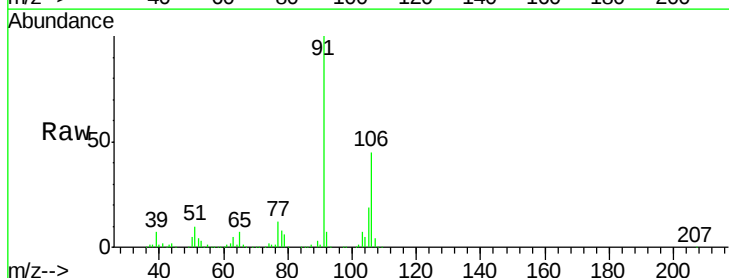
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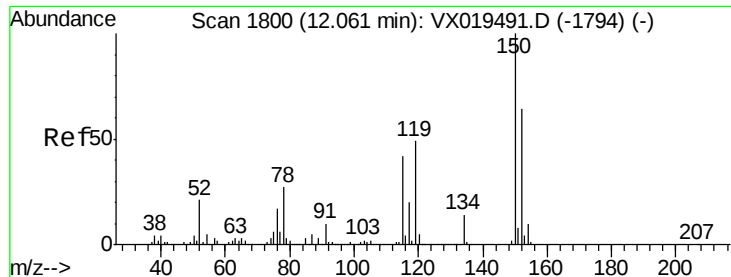
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#69
o-Xylene
Concen: 4.166 ug/l
RT: 10.68 min Scan# 1574
Delta R.T. -0.00 min
Lab File: VX019659.D
Acq: 25 Nov 2020 16:18

Tgt Ion:106 Resp: 23954
Ion Ratio Lower Upper
106 100
91 220.3 108.0 324.0





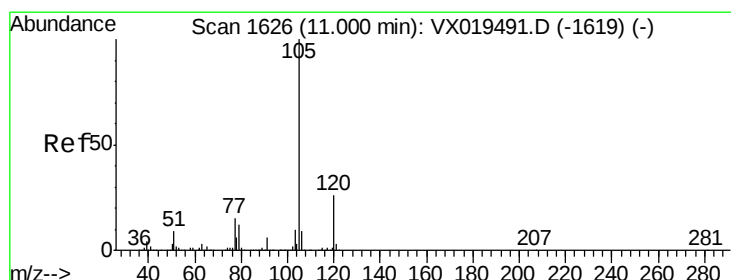
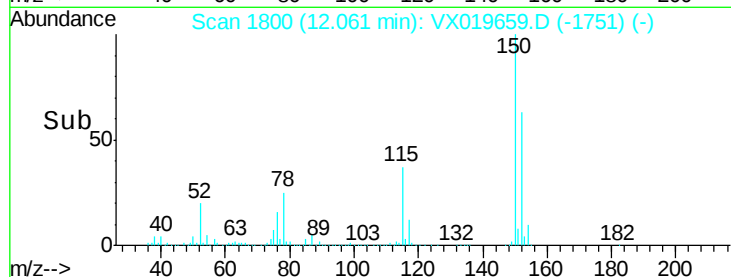
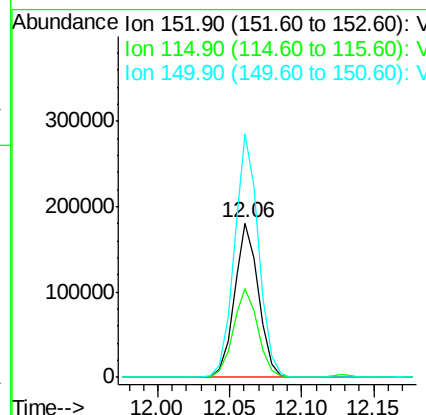
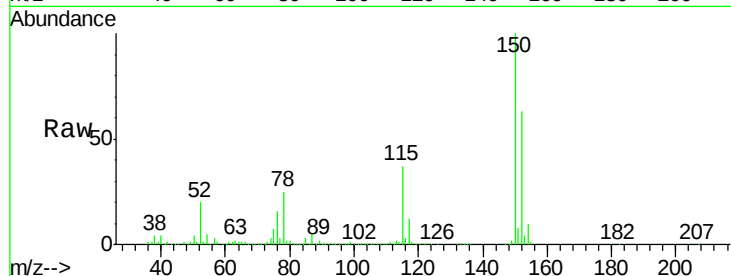
#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.06 min Scan# 1800
 Delta R.T. -0.00 min
 Lab File: VX019659.D
 Acq: 25 Nov 2020 16:18

Instrument :
 MSVOA_X
 ClientSampleId :
 16855

Tot Ion	Ratio	Resp	Lower	Upper
152	100	211466		
115	58.5	41.8	125.4	
150	157.8	0.0	348.2	

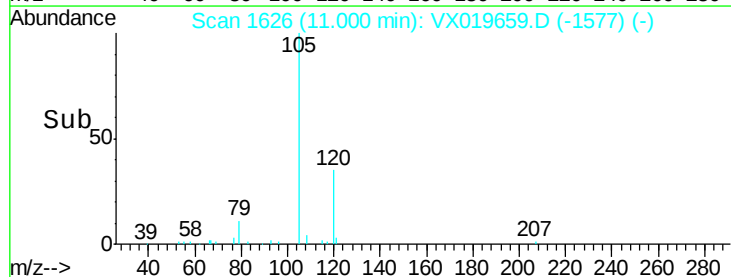
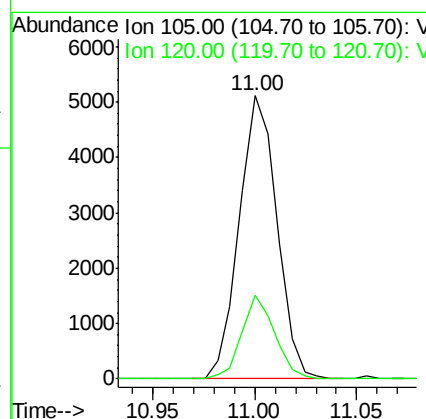
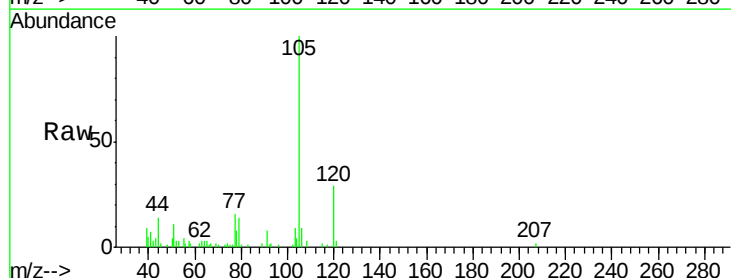
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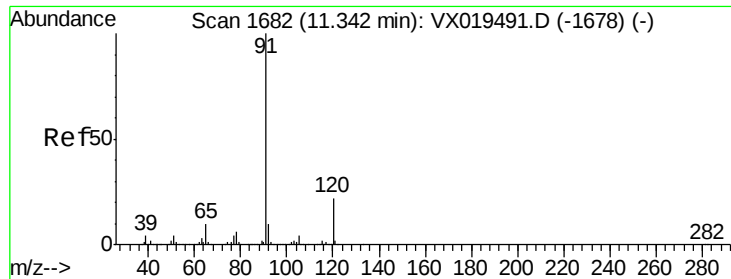
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#73
 Isopropylbenzene
 Concen: 0.449 ug/l
 RT: 11.00 min Scan# 1626
 Delta R.T. -0.00 min
 Lab File: VX019659.D
 Acq: 25 Nov 2020 16:18

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	6564		
120	25.7	13.0	39.0	





#78

n-propylbenzene

Concen: 1.355 ug/l

RT: 11.34 min Scan# 1682

Delta R.T. -0.00 min

Lab File: VX019659.D

Acq: 25 Nov 2020 16:18

Instrument :

MSVOA_X

ClientSampleId :

16855

Tot Ion: 91 Resp: 22747

Ion Ratio Lower Upper

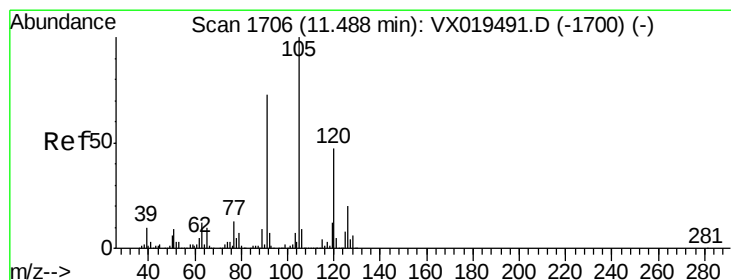
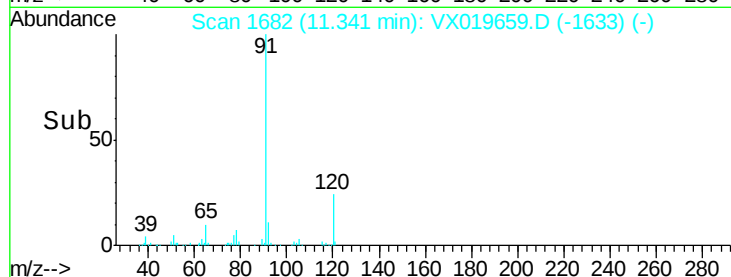
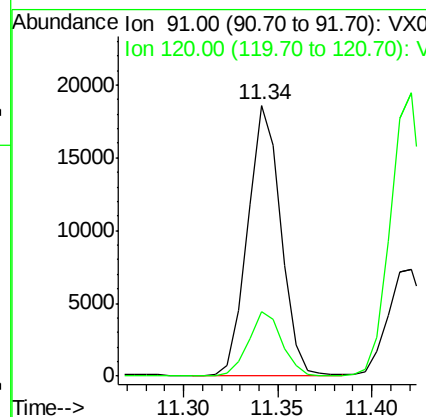
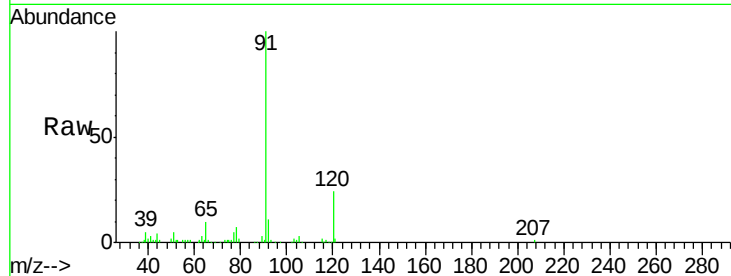
91 100

120 24.0 11.5 34.4

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#80

1,3,5-Trimethylbenzene

Concen: 4.162 ug/l

RT: 11.49 min Scan# 1706

Delta R.T. -0.00 min

Lab File: VX019659.D

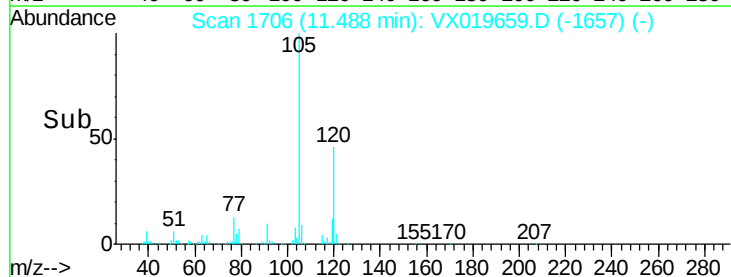
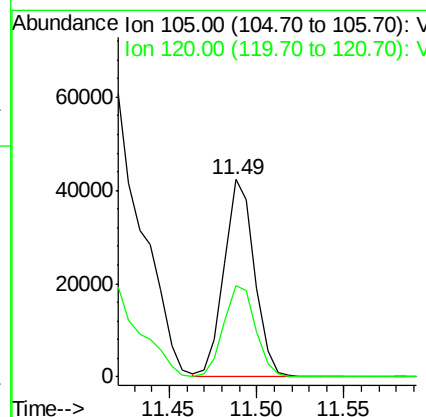
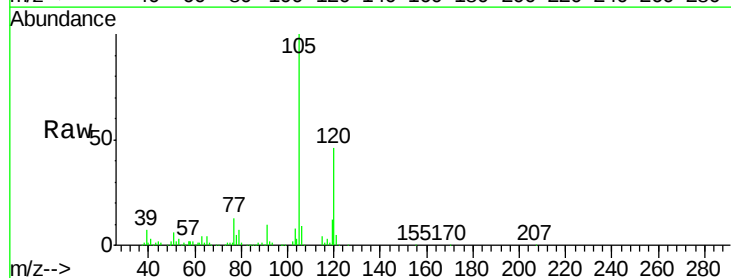
Acq: 25 Nov 2020 16:18

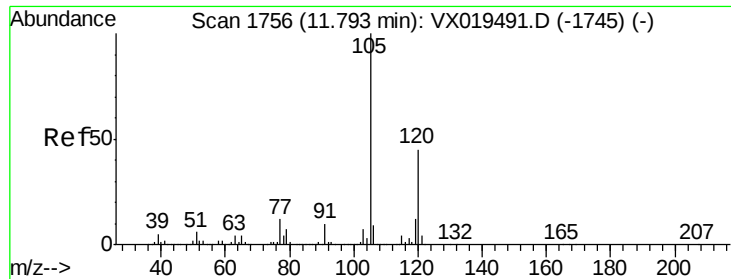
Tgt Ion: 105 Resp: 51079

Ion Ratio Lower Upper

105 100

120 48.7 24.1 72.3





#84

1,2,4-Trimethylbenzene

Concen: 15.671 ug/l

RT: 11.79 min Scan# 1756

Delta R.T. -0.00 min

Lab File: VX019659.D

Acq: 25 Nov 2020 16:18

Instrument :

MSVOA_X

ClientSampleId :

16855

Tot Ion:105 Resp: 194587

Ion Ratio Lower Upper

105 100

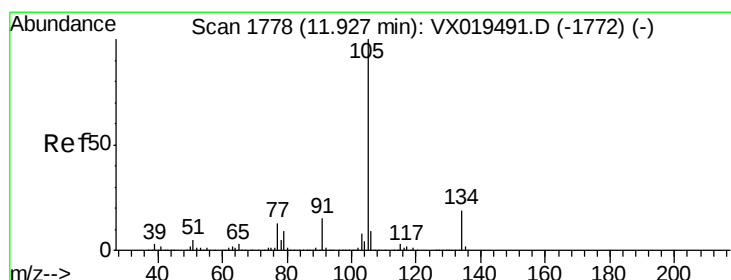
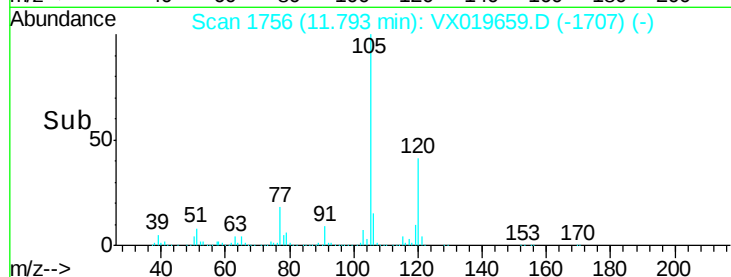
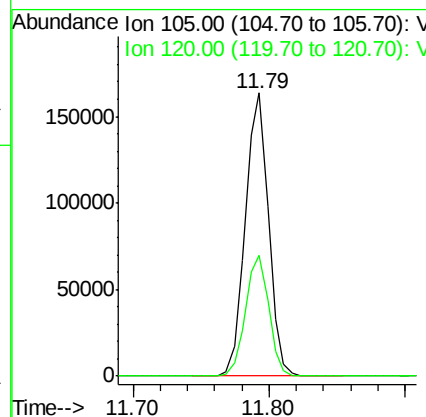
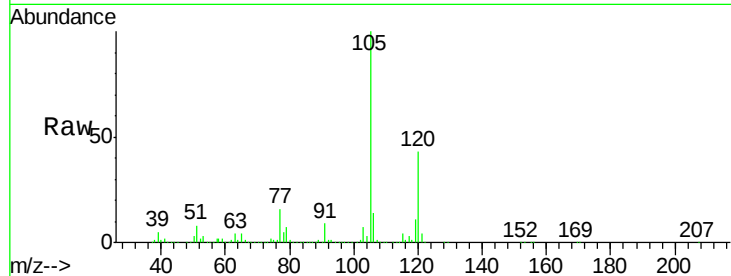
120 42.6 22.2 66.6

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#85

sec-Butylbenzene

Concen: 0.448 ug/l

RT: 11.93 min Scan# 1779

Delta R.T. 0.01 min

Lab File: VX019659.D

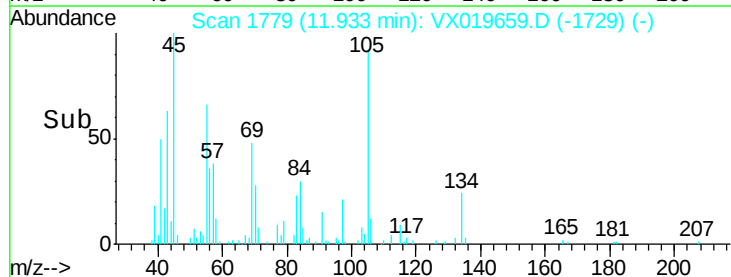
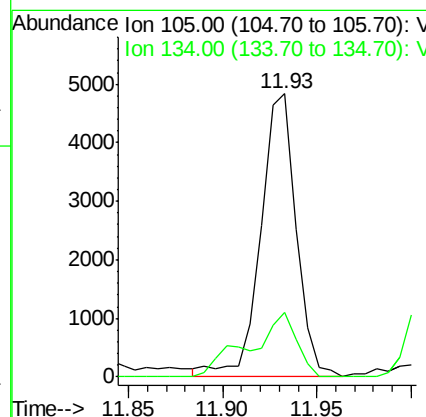
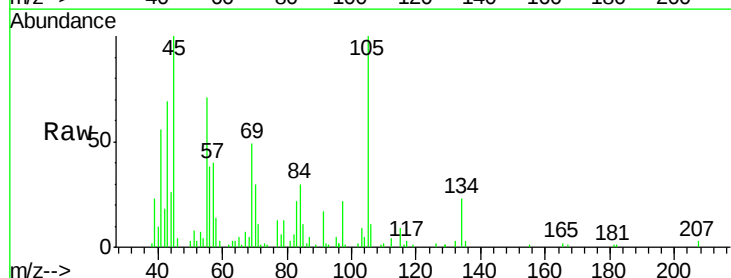
Acq: 25 Nov 2020 16:18

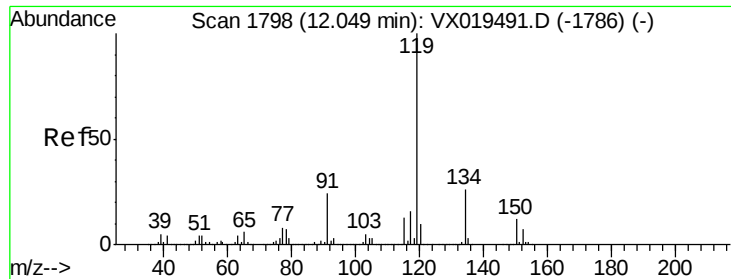
Tgt Ion:105 Resp: 6327

Ion Ratio Lower Upper

105 100

134 30.1 10.1 30.3





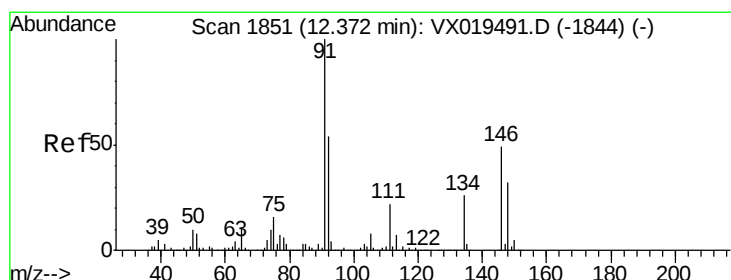
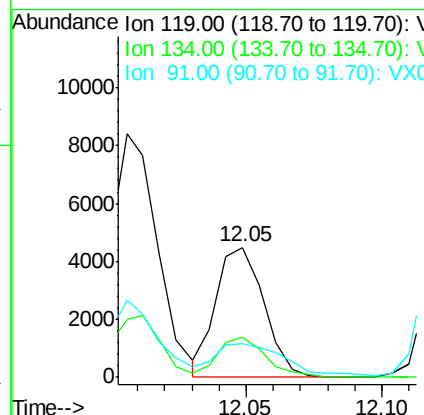
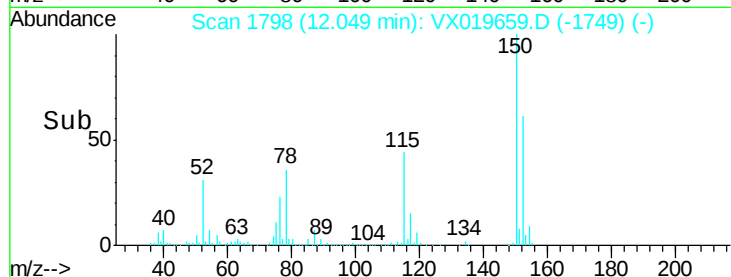
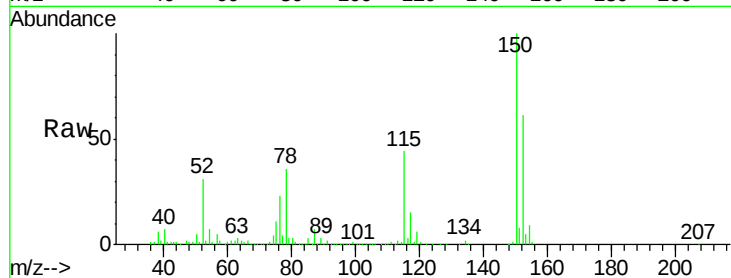
#86
p-Isopropyltoluene
Concen: 0.427 ug/l
RT: 12.05 min Scan# 1798
Delta R.T. -0.00 min
Lab File: VX019659.D
Acq: 25 Nov 2020 16:18

Instrument :
MSVOA_X
ClientSampled :
16855

Tot Ion	Ratio	Lower	Upper
119	100		
134	31.0	13.1	39.3
91	34.3	11.8	35.4

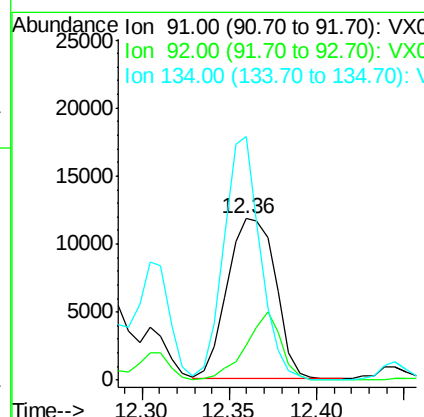
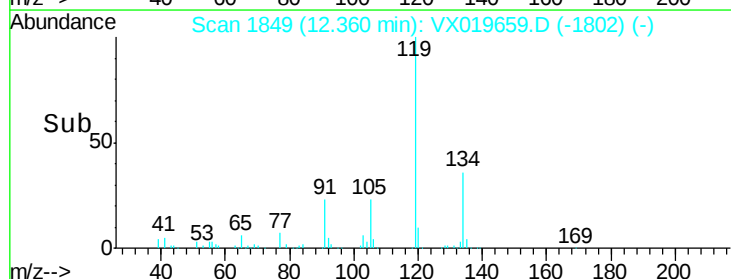
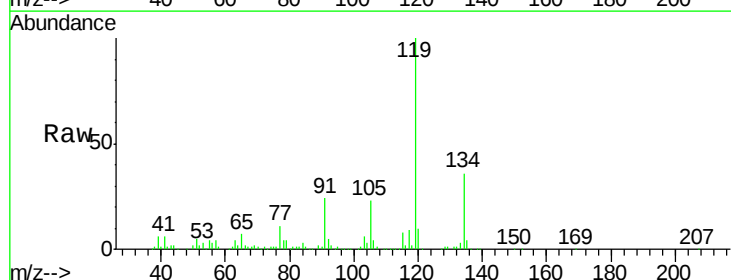
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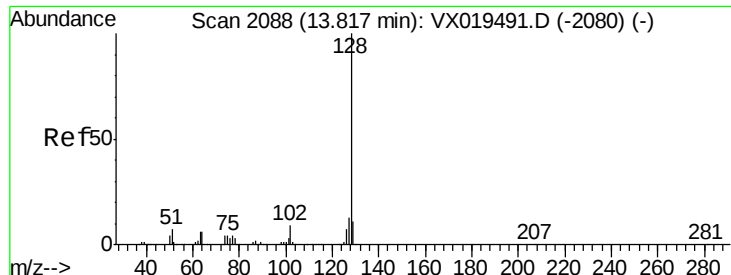
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#89
n-Butylbenzene
Concen: 1.933 ug/l
RT: 12.36 min Scan# 1849
Delta R.T. -0.01 min
Lab File: VX019659.D
Acq: 25 Nov 2020 16:18

Tgt Ion	Ratio	Lower	Upper
91	100		
92	31.5	26.9	80.6
134	115.8	12.9	38.6#





#95
Naphthalene
Concen: 21.474 ug/l
RT: 13.82 min Scan# 2088
Delta R.T. 0.00 min
Lab File: VX019659.D
Acq: 25 Nov 2020 16:18

Instrument :
MSVOA_X
ClientSampleId :
16855

Tot Ion	Ratio	Resp Lower	Upper
128	100		
127	13.0	10.3	15.5
129	11.3	8.7	13.1

Manual Integrations
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