

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX072419\
 Data File : VX011061.D
 Acq On : 24 Jul 2019 16:49
 Operator : JC/SP
 Sample : K3991-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 55-ST-19

Manual Integrations
 APPROVED

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 7/25/2019 3:55:07 PM

Quant Time: Jul 25 03:45:04 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X071919W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jul 19 03:27:28 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.02	128	32953	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	182358	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	159428	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.06	65	66287	29.67	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.90%
60) 4-Bromofluorobenzene	11.13	95	73237	27.91	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	93.03%
63) Toluene-d8	8.71	98	211042	30.12	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.40%

Target Compounds

					Ovalue
15) Acetone	2.45	58	2549m	9.036	ug/l
22) cis-1,2-Dichloroethene	4.59	96	10010	4.471	ug/l
25) Chloroform	5.21	83	1849m	0.521	ug/l
66) Ethyl Benzene	10.25	91	3833	0.402	ug/l
67) m/p-Xylenes	10.35	106	6496	1.781	ug/l
68) o-Xylene	10.70	106	3417	0.956	ug/l
74) n-propylbenzene	11.36	91	3565	0.333	ug/l
76) 1,3,5-Trimethylbenzene	11.51	105	7372	0.915	ug/l
80) 1,2,4-Trimethylbenzene	11.80	105	29175	3.596	ug/l
91) Naphthalene	13.83	128	15224	1.630	ug/l

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

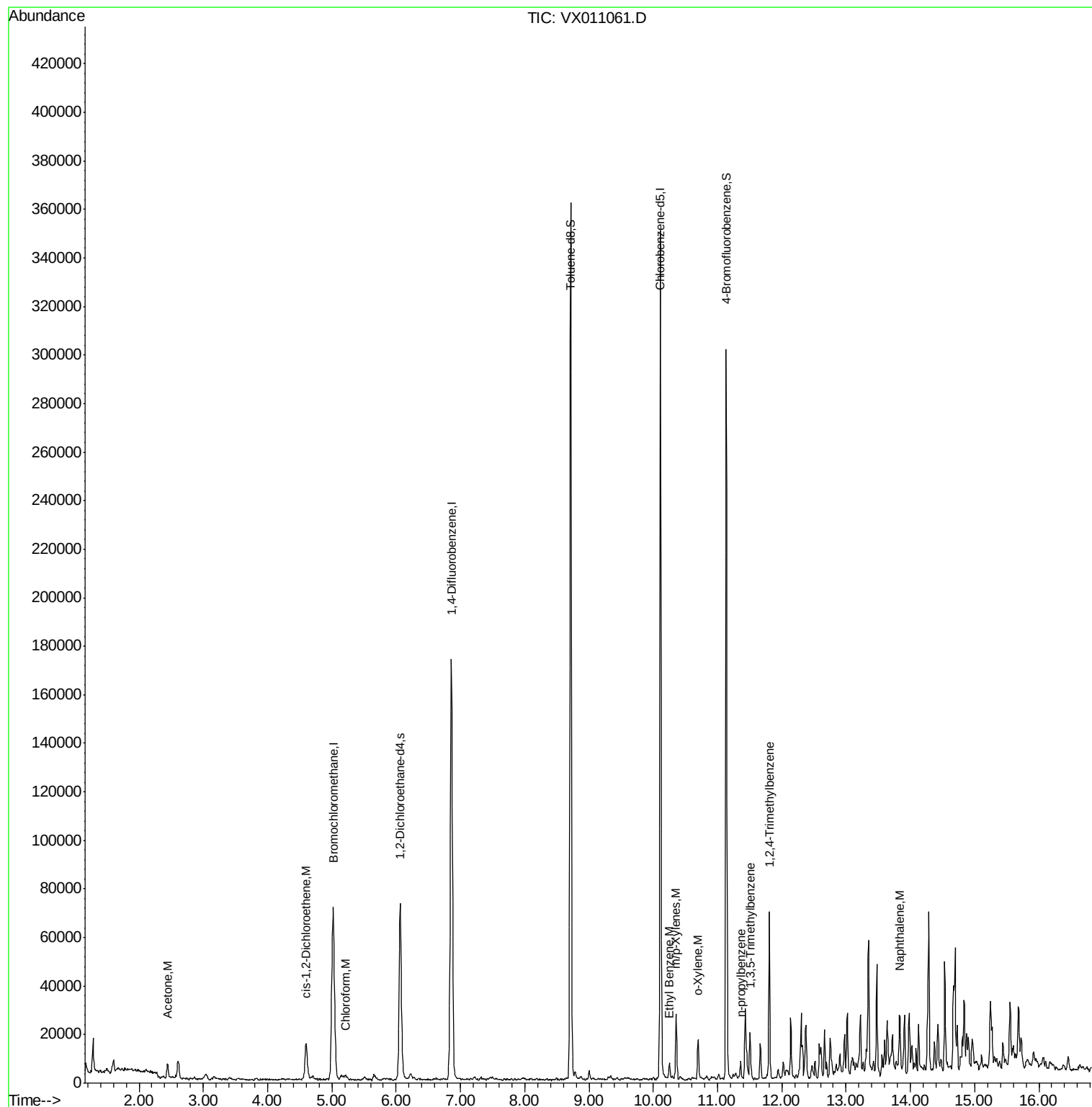
Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX072419\
Data File : VX011061.D
Acq On : 24 Jul 2019 16:49
Operator : JC/SP
Sample : K3991-01
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 13 Sample Multiplier: 1

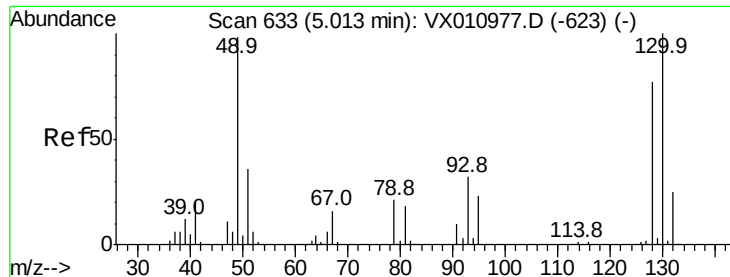
Instrument :
MSVOA_X
ClientSampleId :
55-ST-19

Manual Integrations
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7/25/2019 3:55:07 PM

Quant Time: Jul 25 03:45:04 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X071919W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Jul 19 03:27:28 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 5.02 min Scan# 634

Delta R.T. 0.01 min

Lab File: VX011061.D

Acq: 24 Jul 2019 16:49

Instrument :

MSVOA_X

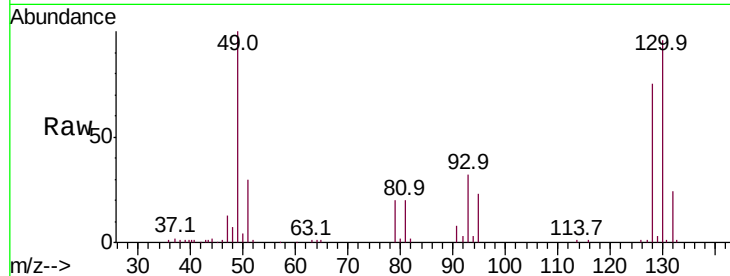
ClientSampleId :

55-ST-19

Tot Ion:	128	Resp:	32953
Ion	Ratio	Lower	Upper
128	100		
49	133.7	0.0	343.5
130	128.1	0.0	324.7

Manual Integrations
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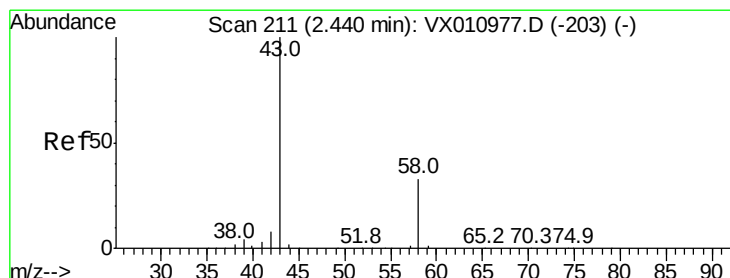
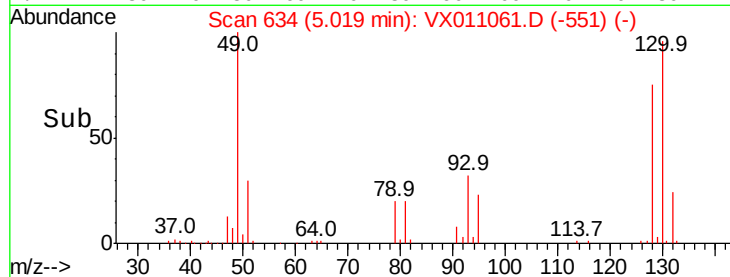
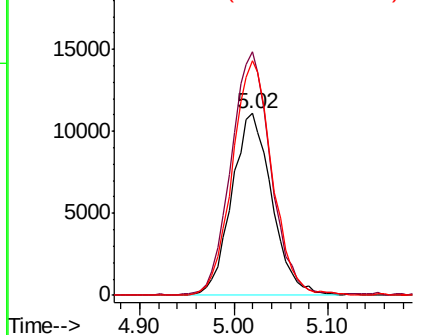
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Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VX0

Ion 130.00 (129.70 to 130.70): V



#15

Acetone

Concen: 9.036 ug/l m

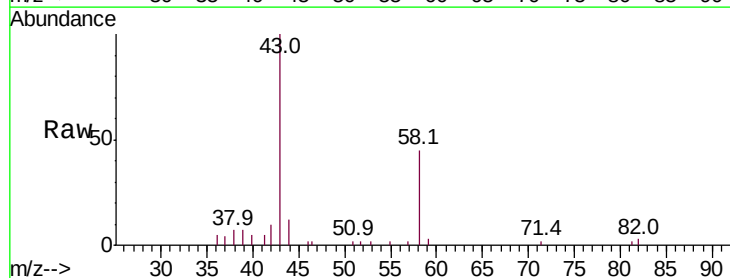
RT: 2.45 min Scan# 212

Delta R.T. 0.01 min

Lab File: VX011061.D

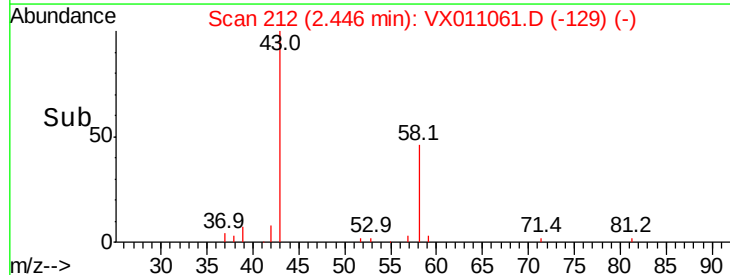
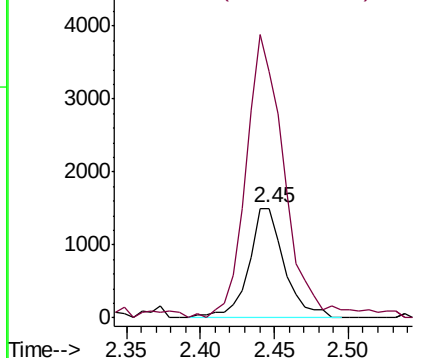
Acq: 24 Jul 2019 16:49

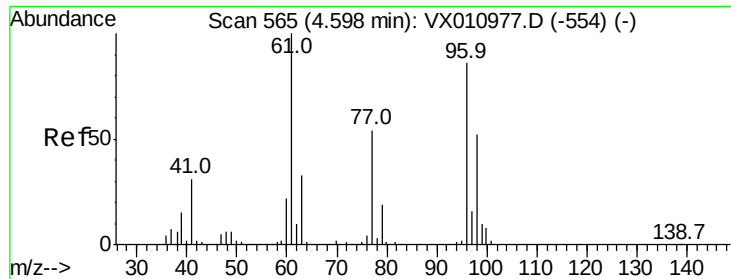
Tgt Ion:	58	Resp:	2549
Ion	Ratio	Lower	Upper
58	100		
43	224.2	243.8	365.6#



Abundance Ion 58.00 (57.70 to 58.70): VX0

Ion 43.00 (42.70 to 43.70): VX0





#22

cis-1,2-Dichloroethene

Concen: 4.471 ug/l

RT: 4.59 min Scan# 564

Delta R.T. -0.01 min

Lab File: VX011061.D

Acq: 24 Jul 2019 16:49

Instrument :

MSVOA_X

ClientSampled :

55-ST-19

Tot Ion: 96 Resp: 10010

Ion Ratio Lower Upper

96 100

61 116.8 102.9 154.3

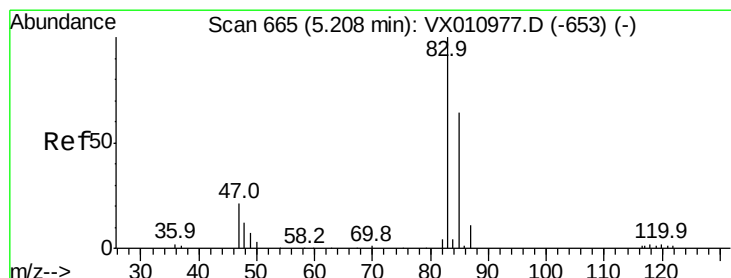
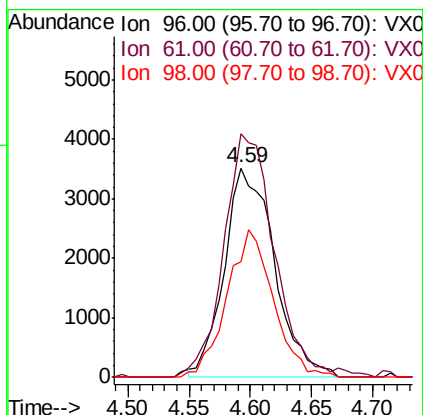
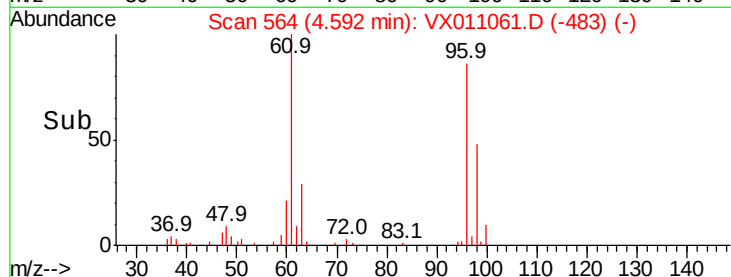
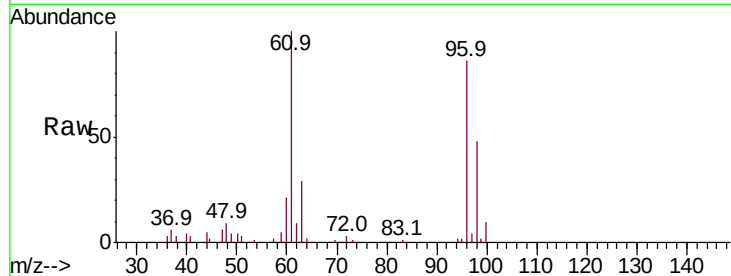
98 64.3 50.9 76.3

Manual Integrations

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#25

Chloroform

Concen: 0.521 ug/l m

RT: 5.21 min Scan# 665

Delta R.T. 0.00 min

Lab File: VX011061.D

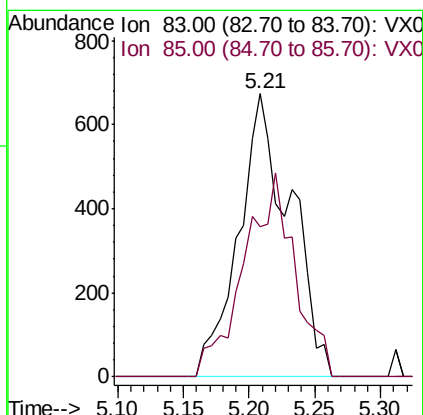
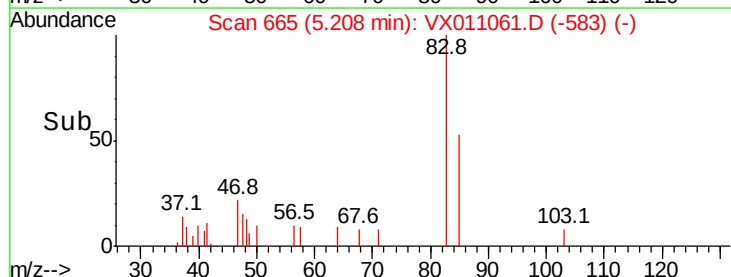
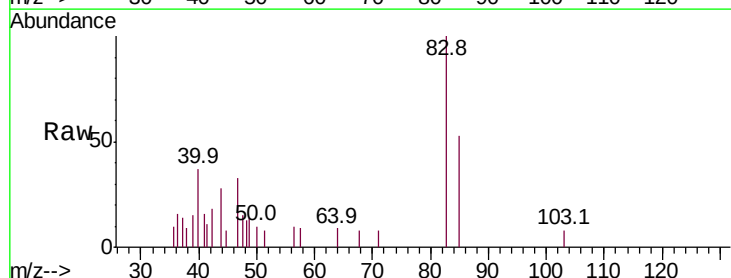
Acq: 24 Jul 2019 16:49

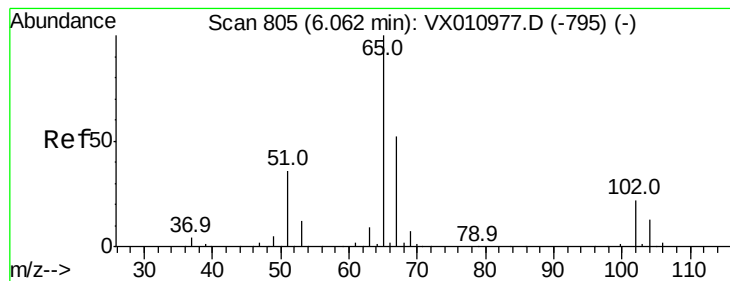
Tgt Ion: 83 Resp: 1849

Ion Ratio Lower Upper

83 100

85 53.0 50.9 76.3





#27

1,2-Dichloroethane-d4

Concen: 29.671 ug/l

RT: 6.06 min Scan# 805

Delta R.T. 0.00 min

Lab File: VX011061.D

Acq: 24 Jul 2019 16:49

Instrument :

MSVOA_X

ClientSampleId :

55-ST-19

Tot Ion: 65 Resp: 66287

Ion Ratio Lower Upper

65 100

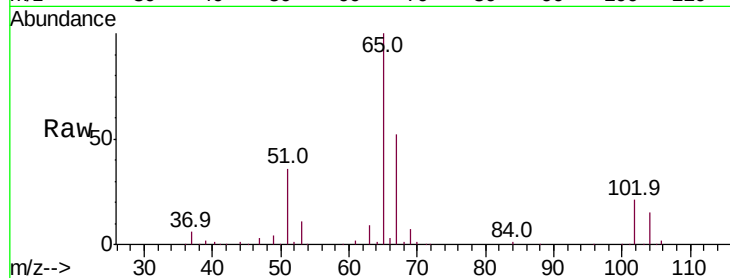
67 53.6 41.7 62.5

Manual Integrations

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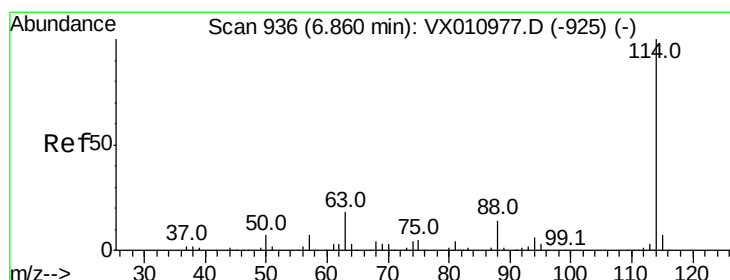
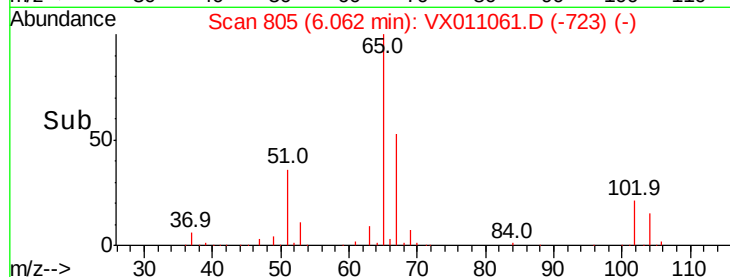
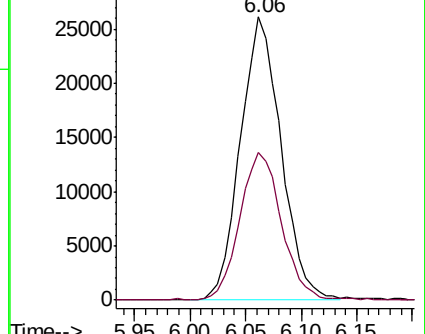
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Abundance Ion 65.00 (64.70 to 65.70): VX0

Ion 67.00 (66.70 to 67.70): VX0



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX011061.D

Acq: 24 Jul 2019 16:49

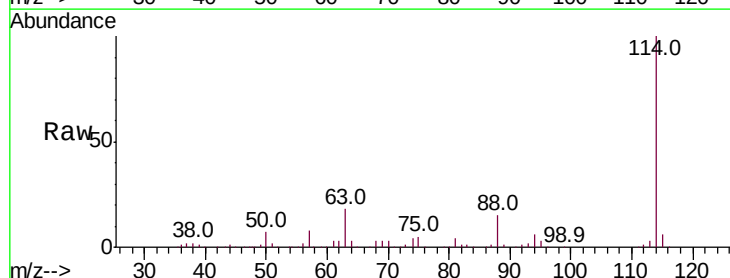
Tgt Ion:114 Resp: 182358

Ion Ratio Lower Upper

114 100

63 18.5 14.6 22.0

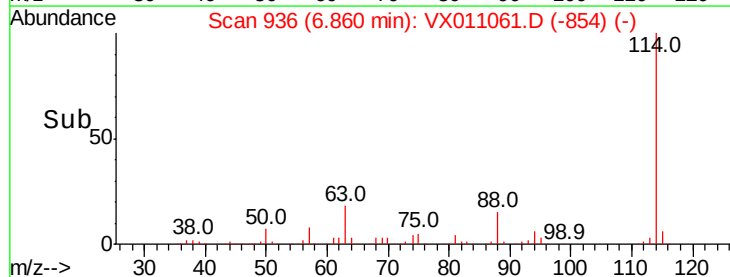
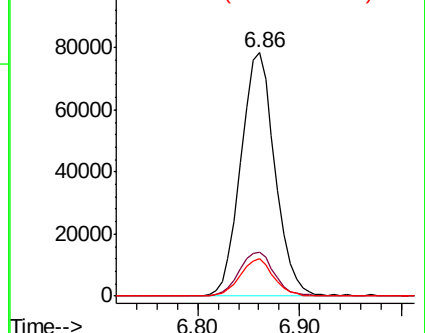
88 15.1 11.8 17.8

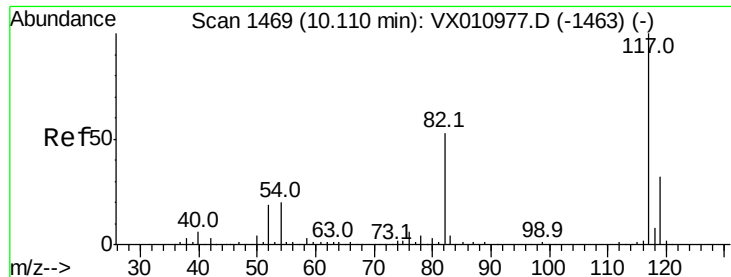


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 88.00 (87.70 to 88.70): VX0





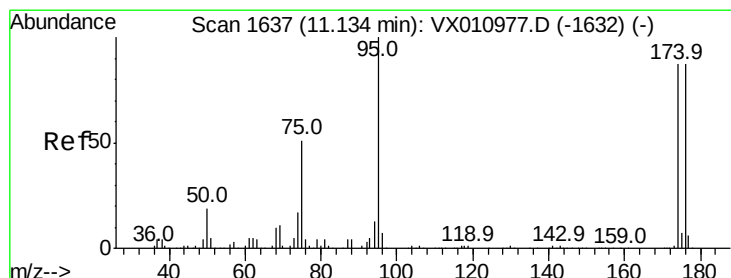
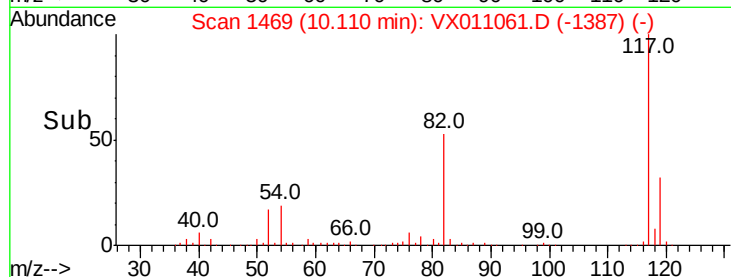
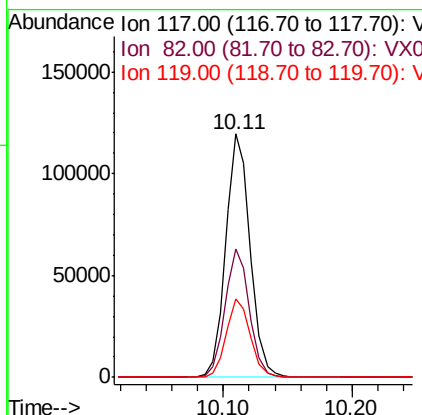
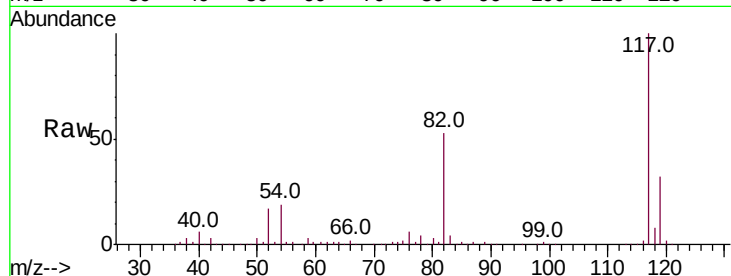
#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX011061.D
Acq: 24 Jul 2019 16:49

Instrument :
MSVOA_X
ClientSampleId :
55-ST-19

Tot Ion	Ratio	Lower	Upper
117	100		
82	52.5	41.6	62.4
119	31.9	26.0	39.0

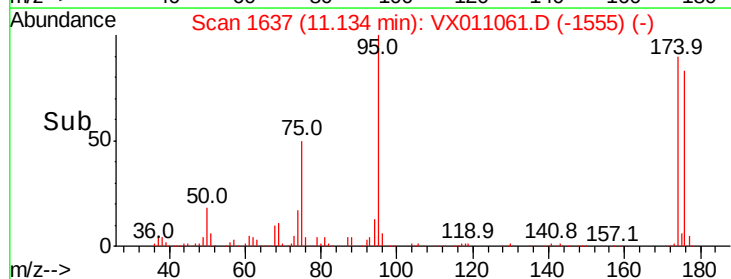
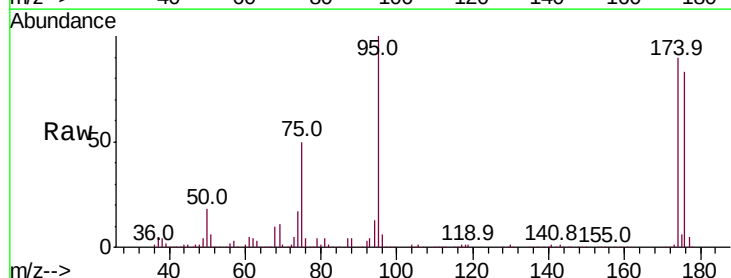
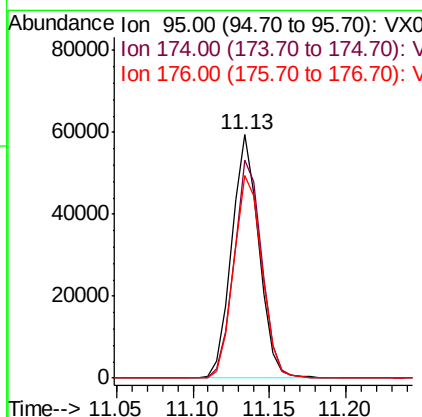
Manual Integrations
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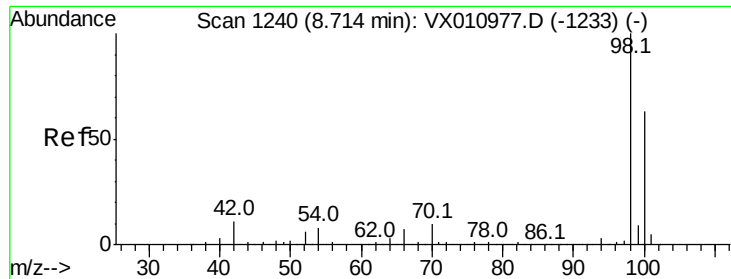
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#60
4-Bromofluorobenzene
Concen: 27.910 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.00 min
Lab File: VX011061.D
Acq: 24 Jul 2019 16:49

Tgt Ion	Ratio	Lower	Upper
95	100		
174	91.7	73.3	109.9
176	86.6	71.2	106.8





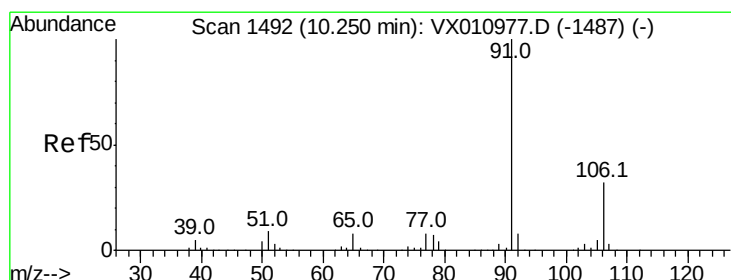
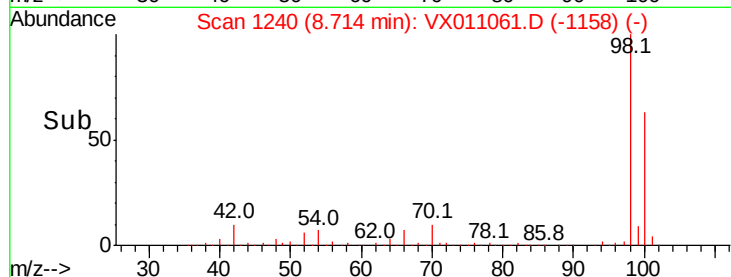
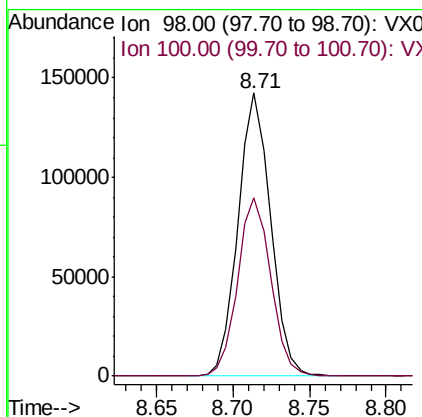
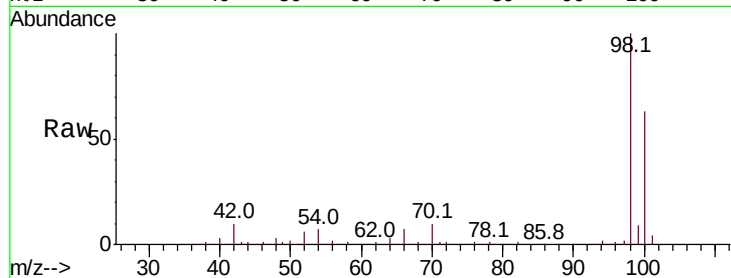
#63
Toluene-d8
Concen: 30.117 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX011061.D
Acq: 24 Jul 2019 16:49

Instrument :
MSVOA_X
ClientSampleId :
55-ST-19

Tot Ion: 98 Resp: 211042
Ion Ratio Lower Upper
98 100
100 64.1 51.4 77.0

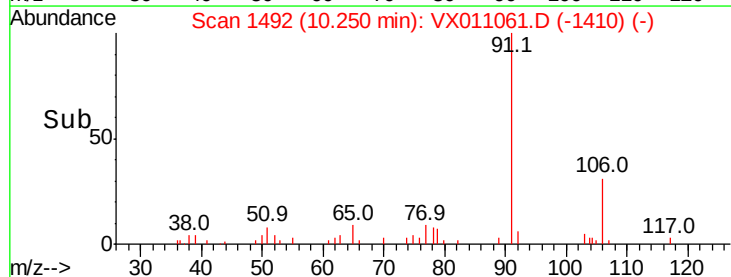
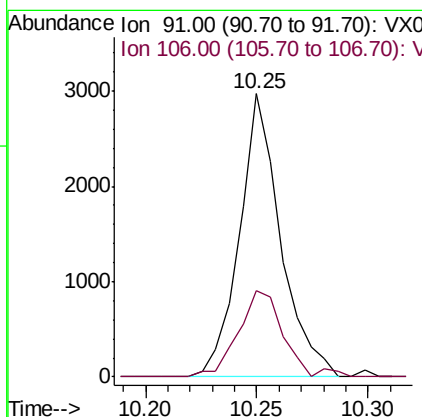
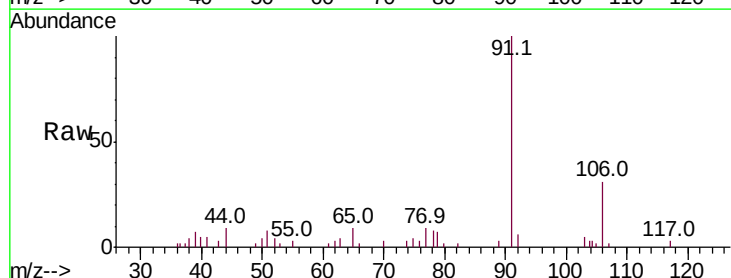
Manual Integrations
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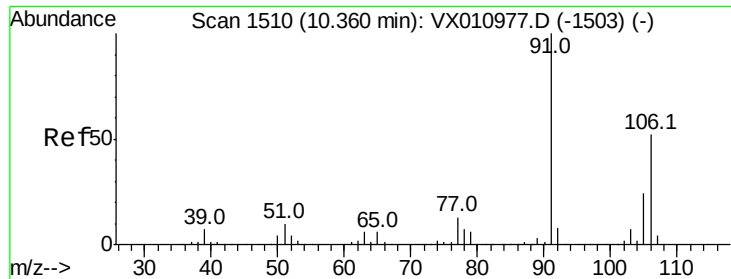
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#66
Ethyl Benzene
Concen: 0.402 ug/l
RT: 10.25 min Scan# 1492
Delta R.T. 0.00 min
Lab File: VX011061.D
Acq: 24 Jul 2019 16:49

Tgt Ion: 91 Resp: 3833
Ion Ratio Lower Upper
91 100
106 30.6 25.8 38.8





#67

m/p-Xylenes

Concen: 1.781 ug/l

RT: 10.35 min Scan# 1509

Delta R.T. -0.01 min

Lab File: VX011061.D

Acq: 24 Jul 2019 16:49

Instrument :

MSVOA_X

ClientSampleId :

55-ST-19

Tot Ion:106 Resp: 6496

Ion Ratio Lower Upper

106 100

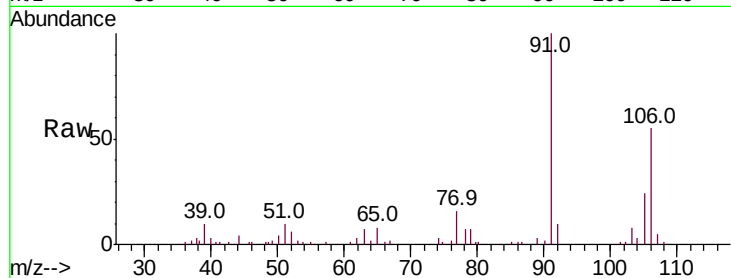
91 188.5 156.6 235.0

Manual Integrations

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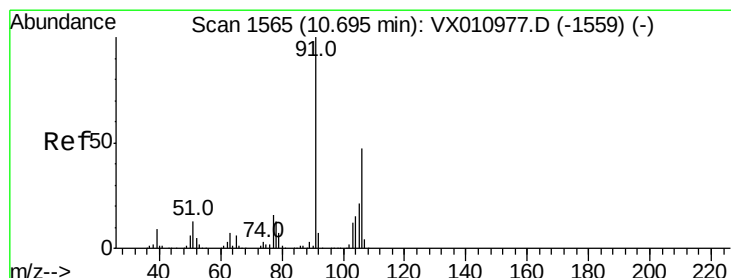
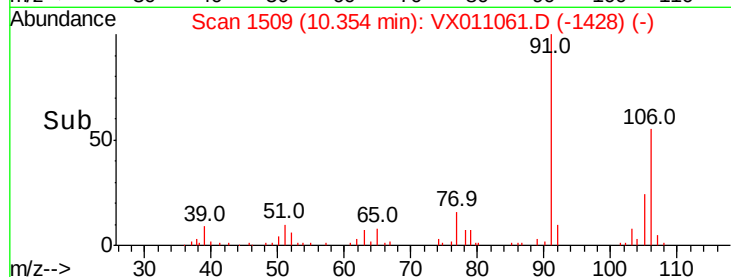
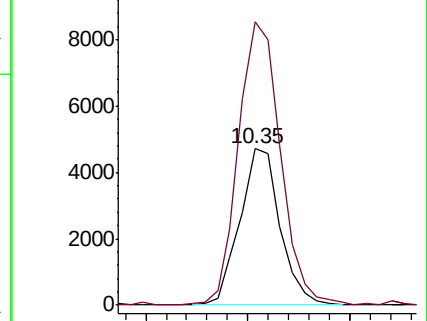
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Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0



#68

o-Xylene

Concen: 0.956 ug/l

RT: 10.70 min Scan# 1566

Delta R.T. 0.01 min

Lab File: VX011061.D

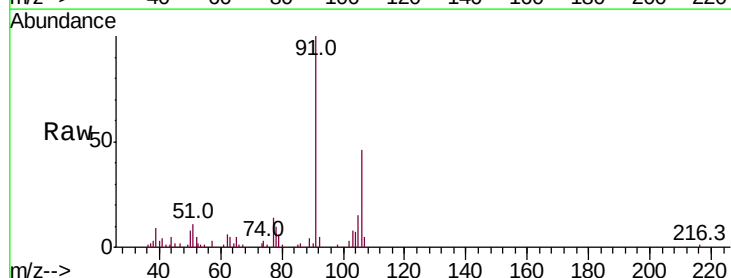
Acq: 24 Jul 2019 16:49

Tgt Ion:106 Resp: 3417

Ion Ratio Lower Upper

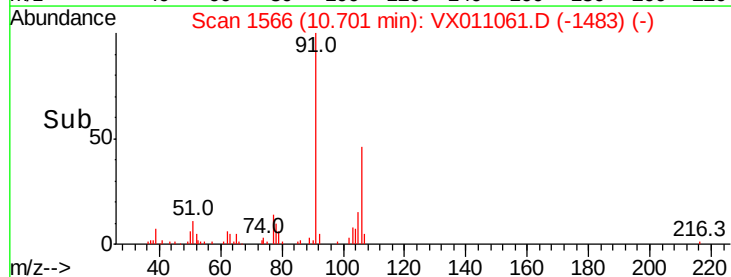
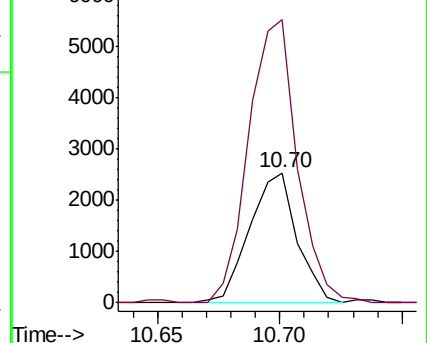
106 100

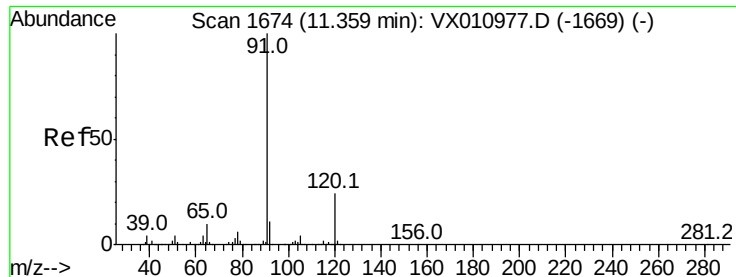
91 222.7 104.0 312.0



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0





#74

n-propylbenzene

Concen: 0.333 ug/l

RT: 11.36 min Scan# 1674

Delta R.T. 0.00 min

Lab File: VX011061.D

Acq: 24 Jul 2019 16:49

Instrument :

MSVOA_X

ClientSampled :

55-ST-19

Tot Ion: 91 Resp: 3565

Ion Ratio Lower Upper

91 100

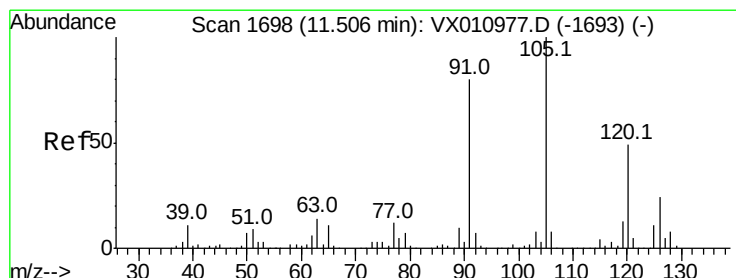
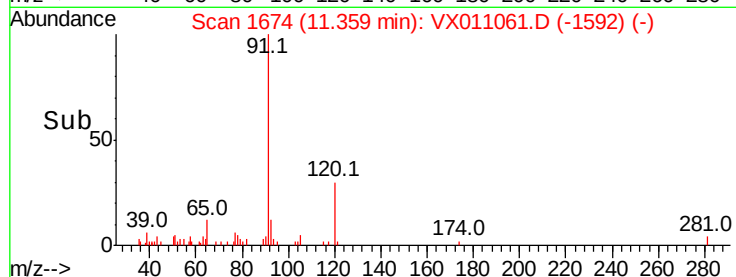
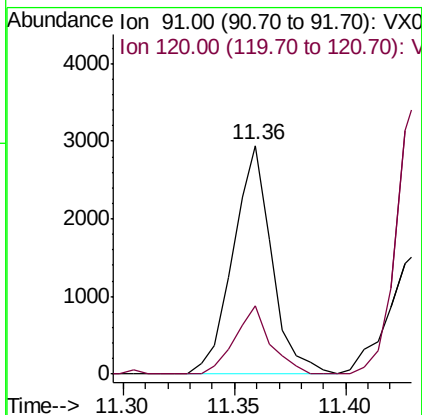
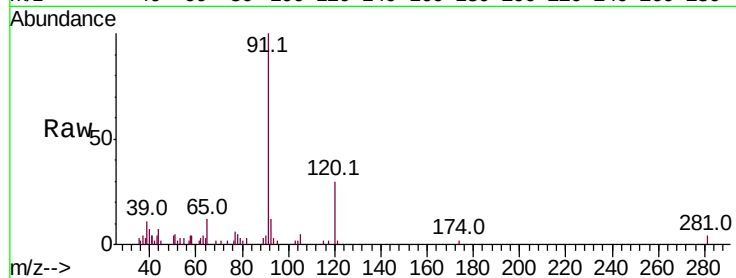
120 27.5 0.0 47.6

Manual Integrations

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#76

1,3,5-Trimethylbenzene

Concen: 0.915 ug/l

RT: 11.51 min Scan# 1698

Delta R.T. 0.00 min

Lab File: VX011061.D

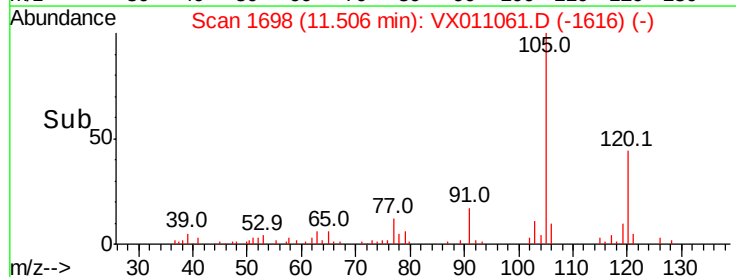
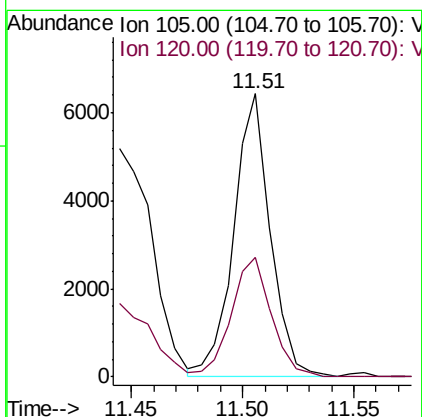
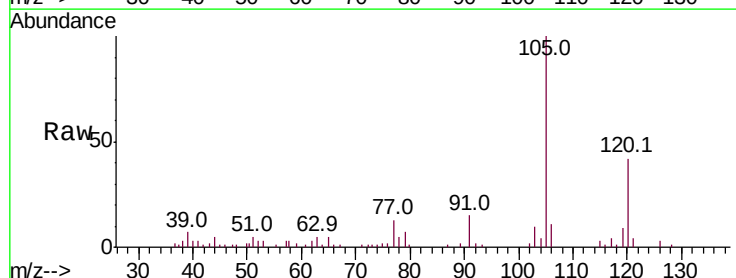
Acq: 24 Jul 2019 16:49

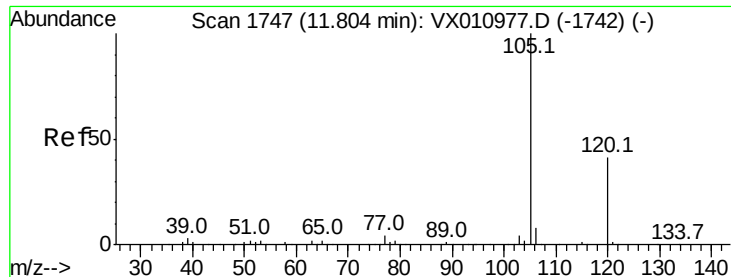
Tgt Ion: 105 Resp: 7372

Ion Ratio Lower Upper

105 100

120 46.1 0.0 96.6





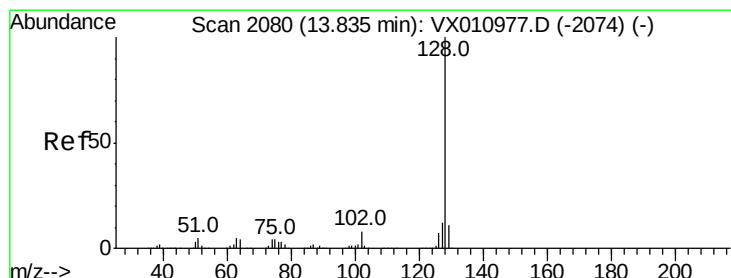
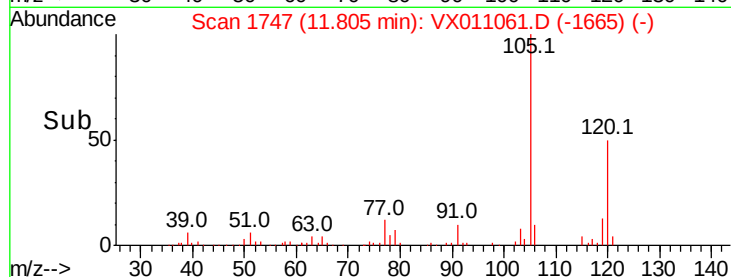
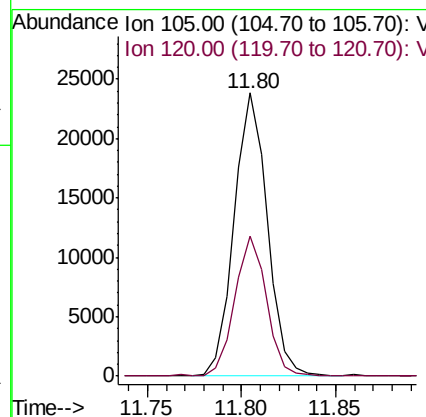
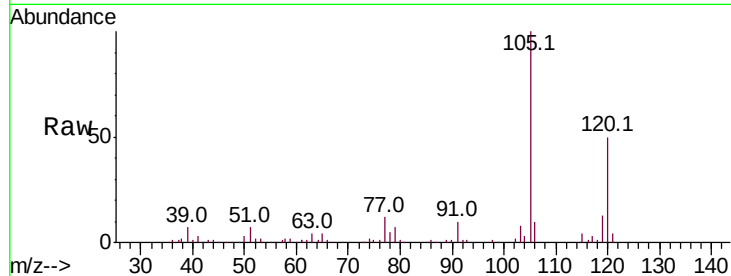
#80
 1,2,4-Trimethylbenzene
 Concen: 3.596 ug/l
 RT: 11.80 min Scan# 1747
 Delta R.T. 0.00 min
 Lab File: VX011061.D
 Acq: 24 Jul 2019 16:49

Instrument :
 MSVOA_X
 ClientSampleId :
 55-ST-19

Tot Ion:105 Resp: 29175
 Ion Ratio Lower Upper
 105 100
 120 47.1 0.0 91.6

Manual Integrations
 APPROVED

MMDadoda
 7/25/2019 3:55:07 PM



#91
 Naphthalene
 Concen: 1.630 ug/l
 RT: 13.83 min Scan# 2080
 Delta R.T. 0.00 min
 Lab File: VX011061.D
 Acq: 24 Jul 2019 16:49

Tgt Ion:128 Resp: 15224
 Ion Ratio Lower Upper
 128 100
 127 12.1 10.2 15.2
 129 12.2 8.5 12.7

