

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX030620\
 Data File : VX015126.D
 Acq On : 06 Mar 2020 14:54
 Operator : JC/SP
 Sample : L1802-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 400304782.2-VOA

Manual Integrations
 APPROVED

MMDadoda
 3/9/2020 9:39:24 AM

Quant Time: Mar 09 11:19:42 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X022120W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Feb 22 00:37:56 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.01	128	61265	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	322325	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	297105	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.05	65	128281	30.11	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.37%
60) 4-Bromofluorobenzene	11.13	95	134591	29.09	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	96.97%
63) Toluene-d8	8.71	98	390223	30.12	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.40%

Target Compounds

					Ovalue
8) Diethyl Ether	2.18	74	17399	7.464 ug/l	98
15) Acetone	2.43	58	3727	5.754 ug/l	97
23) tert-Butyl Alcohol	3.02	59	4146086	5778.905 ug/l #	100
24) Methyl tert-Butyl Ether	3.18	73	19200	1.792 ug/l #	84
34) Benzene	6.14	78	38197	2.777 ug/l	94
45) 1,4-Dioxane	7.73	88	6383	86.302 ug/l #	84
62) Toluene	8.78	91	35452	2.330 ug/l	99
64) Chlorobenzene	10.14	112	6731m	0.693 ug/l	
66) Ethyl Benzene	10.25	91	13450	0.802 ug/l	99
67) m/p-Xylenes	10.35	106	46816	7.242 ug/l	98
68) o-Xylene	10.70	106	41758	6.676 ug/l	98
70) Isopropylbenzene	11.01	105	3693	0.222 ug/l	99
76) 1,3,5-Trimethylbenzene	11.50	105	12451	0.894 ug/l	97
80) 1,2,4-Trimethylbenzene	11.81	105	31845	2.300 ug/l	97
82) p-Isopropyltoluene	12.06	119	12790	0.855 ug/l	99
84) 1,4-Dichlorobenzene	12.09	146	20215	2.551 ug/l	95
87) 1,2-Dichlorobenzene	12.39	146	1719	0.220 ug/l	78

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

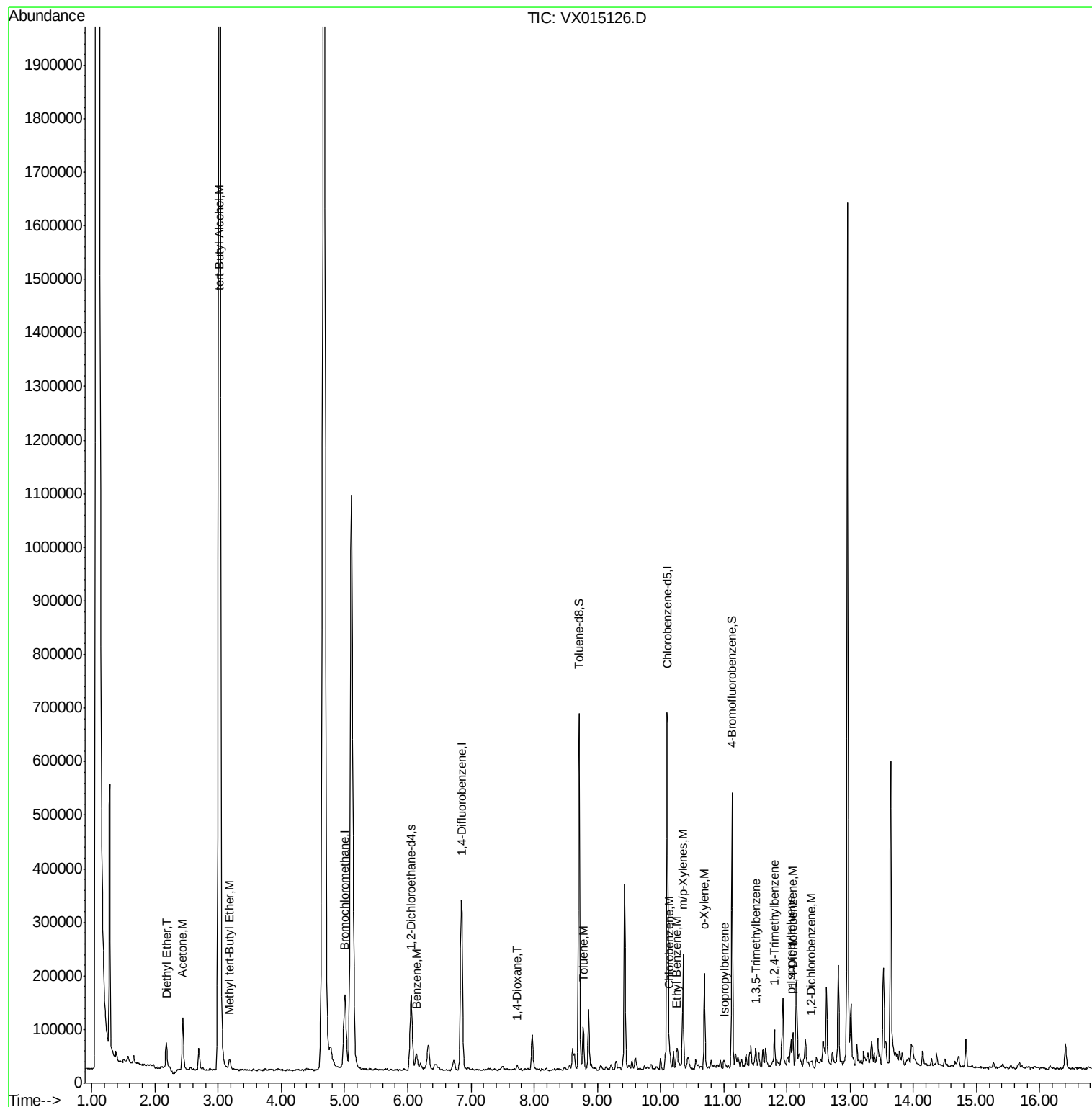
Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX030620\
Data File : VX015126.D
Acq On : 06 Mar 2020 14:54
Operator : JC/SP
Sample : L1802-01
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 11 Sample Multiplier: 1

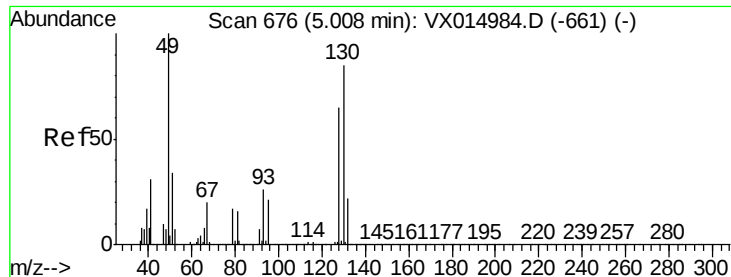
Instrument :
MSVOA_X
ClientSampleId :
400304782.2-VOA

Manual Integrations
APPROVED

MMDadoda
3/9/2020 9:39:24 AM

Quant Time: Mar 09 11:19:42 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X022120W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Feb 22 00:37:56 2020
Response via : Initial Calibration





#1

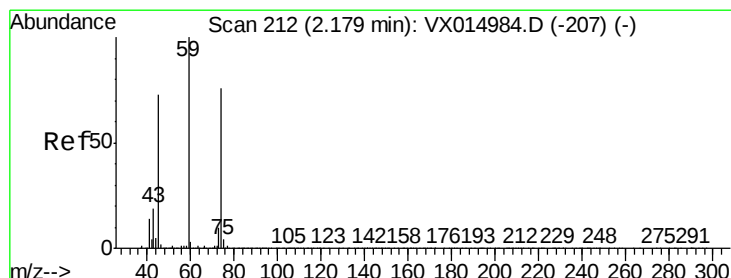
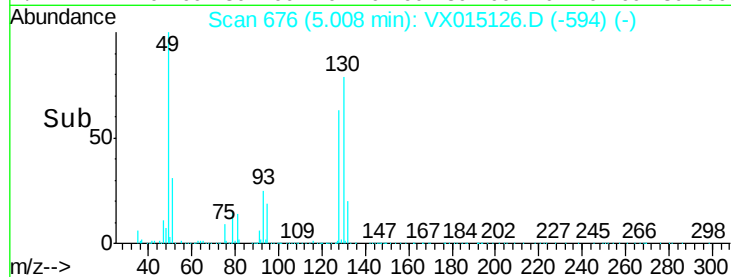
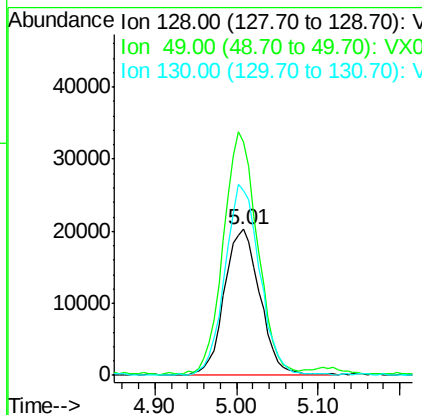
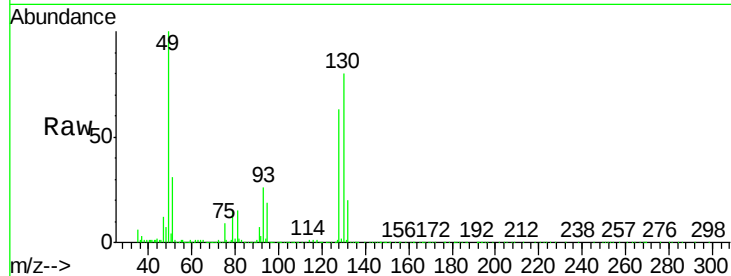
Bromochloromethane
Concen: 30.000 ug/l
RT: 5.01 min Scan# 676
Delta R.T. 0.00 min
Lab File: VX015126.D
Acq: 06 Mar 2020 14:54

Instrument :
MSVOA_X
ClientSampleId :
400304782.2-VOA

Tot Ion	Ratio	Lower	Upper
128	100		
49	159.6	0.0	384.7
130	126.9	0.0	330.8

Manual Integrations
APPROVED

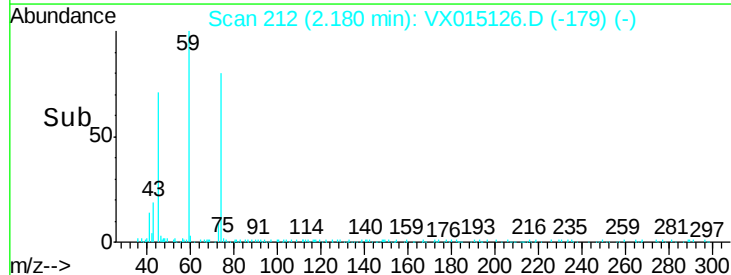
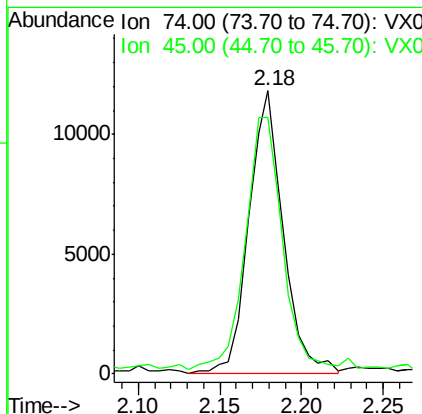
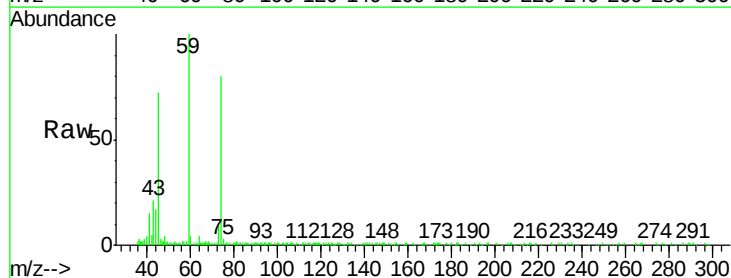
MMDadoda
3/9/2020 9:39:24 AM

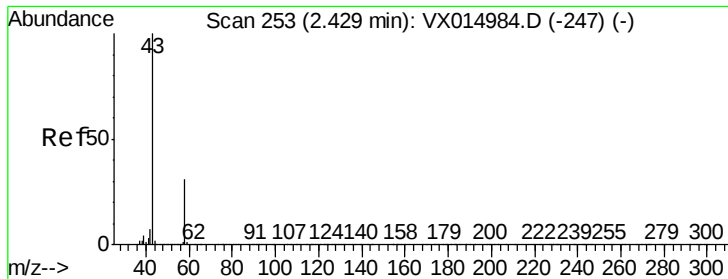


#8

Diethyl Ether
Concen: 7.464 ug/l
RT: 2.18 min Scan# 212
Delta R.T. 0.00 min
Lab File: VX015126.D
Acq: 06 Mar 2020 14:54

Tgt Ion	Ratio	Lower	Upper
74	100		
45	95.8	19.6	176.8





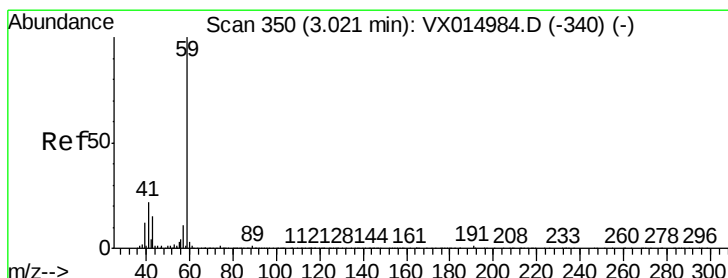
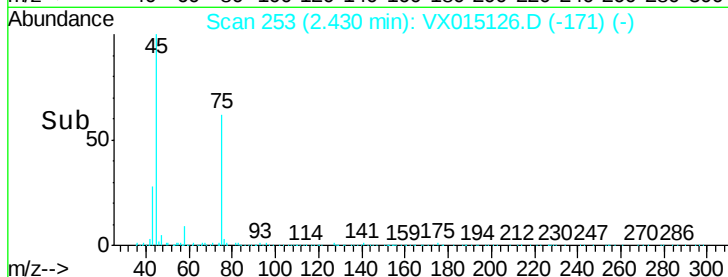
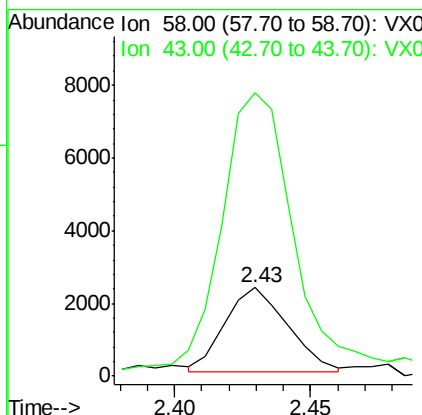
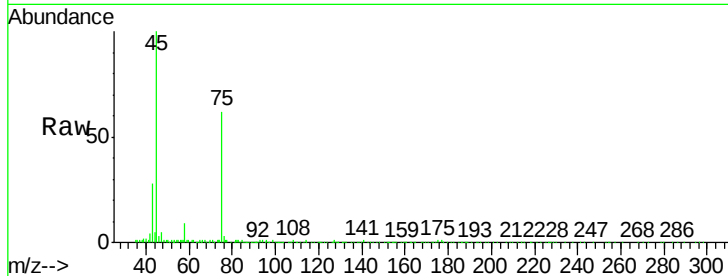
#15
Acetone
Concen: 5.754 ug/l
RT: 2.43 min Scan# 253
Delta R.T. 0.00 min
Lab File: VX015126.D
Acq: 06 Mar 2020 14:54

Instrument :
MSVOA_X
ClientSampleId :
400304782.2-VOA

Tot Ion: 58 Resp: 3727
Ion Ratio Lower Upper
58 100
43 327.6 257.7 386.5

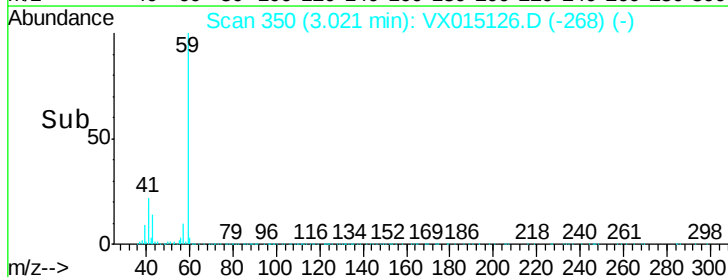
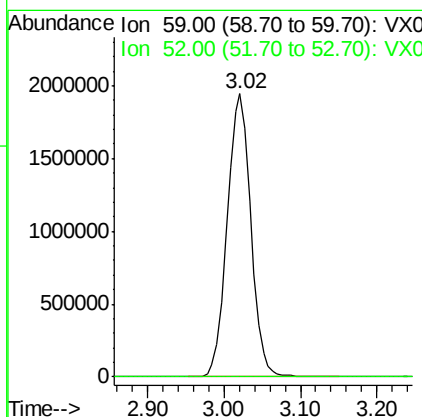
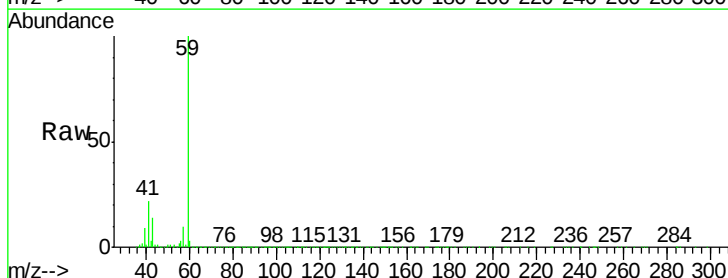
Manual Integrations
APPROVED

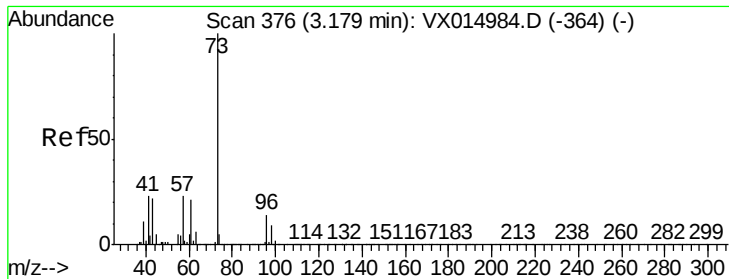
MMDadoda
3/9/2020 9:39:24 AM



#23
tert-Butyl Alcohol
Concen: 5778.905 ug/l
RT: 3.02 min Scan# 350
Delta R.T. 0.00 min
Lab File: VX015126.D
Acq: 06 Mar 2020 14:54

Tgt Ion: 59 Resp: 4146086
Ion Ratio Lower Upper
59 100
52 0.2 0.4 0.6#





#24

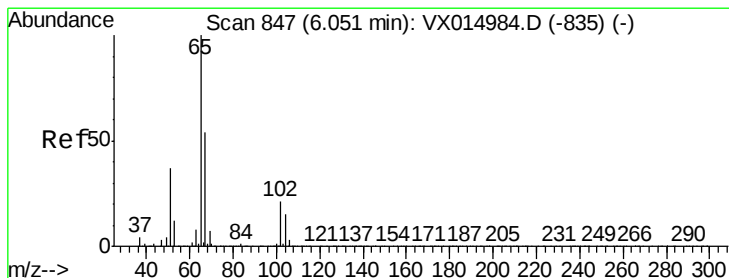
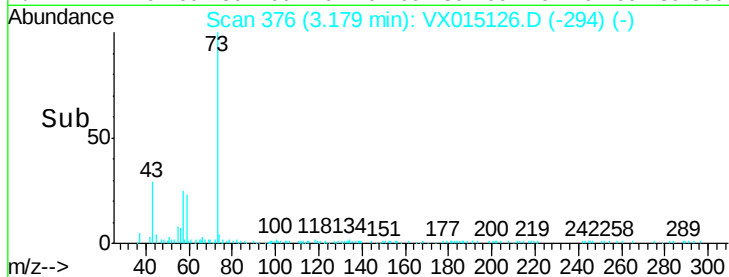
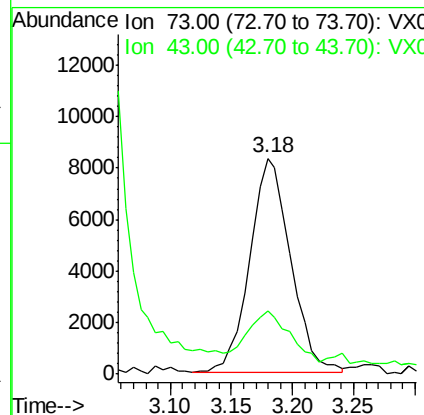
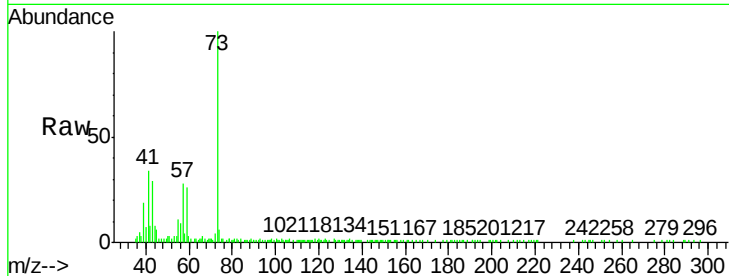
Methyl tert-Butyl Ether
 Concen: 1.792 ug/l
 RT: 3.18 min Scan# 376
 Delta R.T. 0.00 min
 Lab File: VX015126.D
 Acq: 06 Mar 2020 14:54

Instrument :
 MSVOA_X
 ClientSampleId :
 400304782.2-VOA

Tot Ion	Ratio	Lower	Upper
73	100		
43	29.9	17.7	26.5#

Manual Integrations
 APPROVED

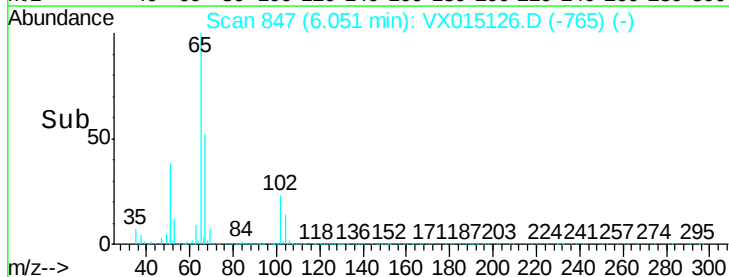
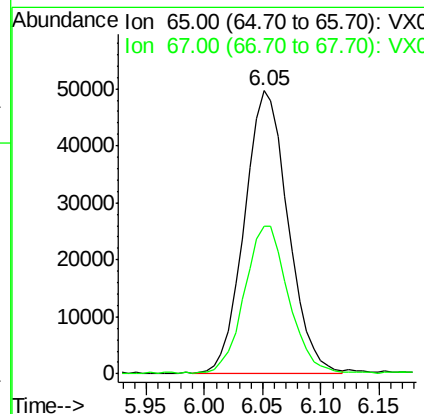
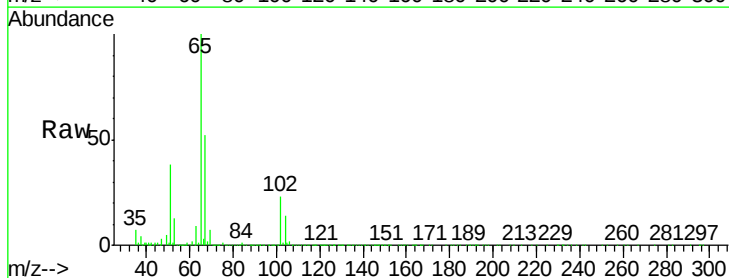
MMDadoda
 3/9/2020 9:39:24 AM

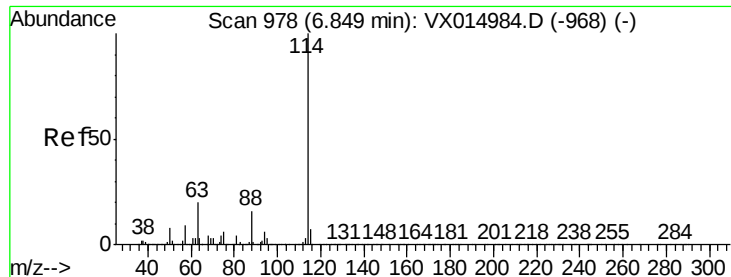


#27

1,2-Dichloroethane-d4
 Concen: 30.112 ug/l
 RT: 6.05 min Scan# 847
 Delta R.T. 0.00 min
 Lab File: VX015126.D
 Acq: 06 Mar 2020 14:54

Tgt Ion	Ratio	Lower	Upper
65	100		
67	52.9	41.9	62.9





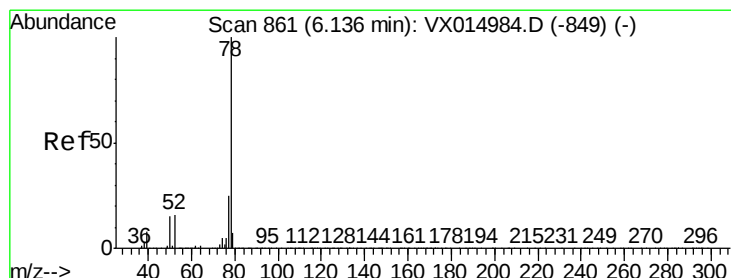
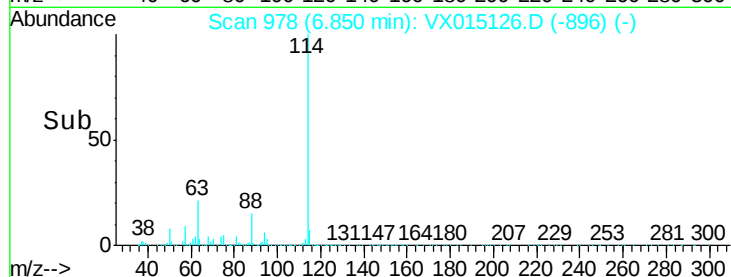
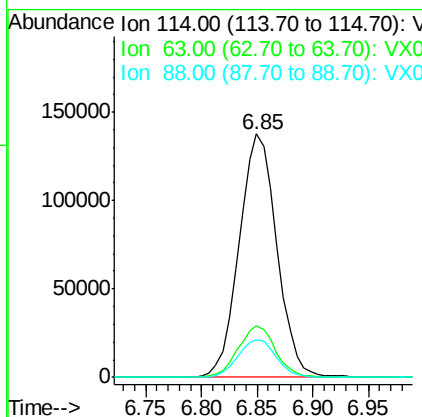
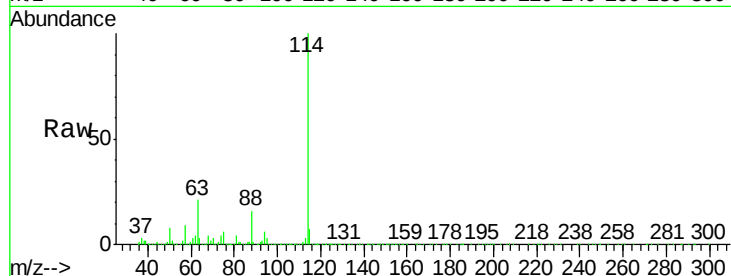
#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 6.85 min Scan# 978
Delta R.T. 0.00 min
Lab File: VX015126.D
Acq: 06 Mar 2020 14:54

Instrument :
MSVOA_X
ClientSampleId :
400304782.2-VOA

Tot Ion	Ratio	Resp	Lower	Upper
114	100	322325		
63	20.7		15.6	23.4
88	15.9		12.2	18.2

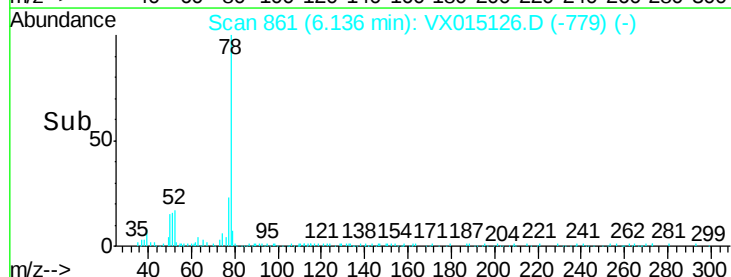
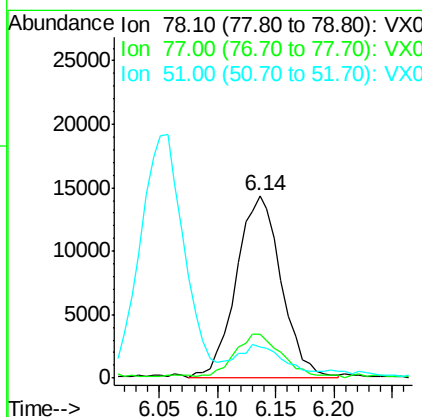
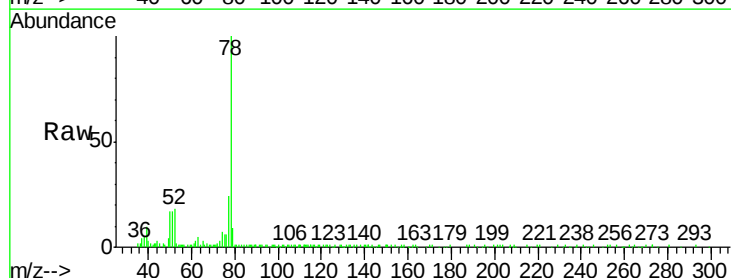
Manual Integrations
APPROVED

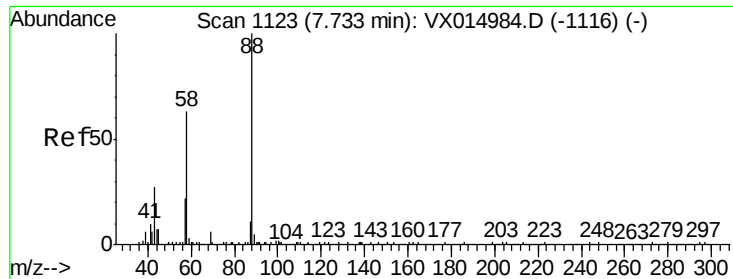
MMDadoda
3/9/2020 9:39:24 AM



#34
Benzene
Concen: 2.777 ug/l
RT: 6.14 min Scan# 861
Delta R.T. 0.00 min
Lab File: VX015126.D
Acq: 06 Mar 2020 14:54

Tgt Ion	Ratio	Resp	Lower	Upper
78	100	38197		
77	22.2		20.0	30.0
51	13.6		13.3	19.9





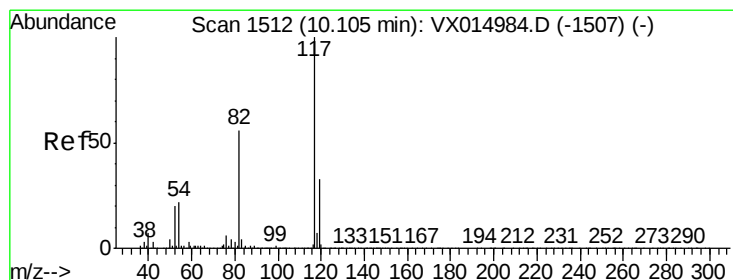
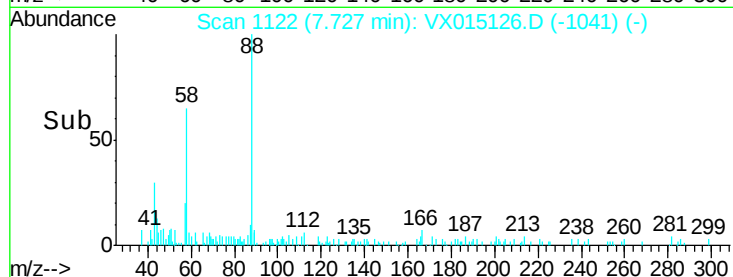
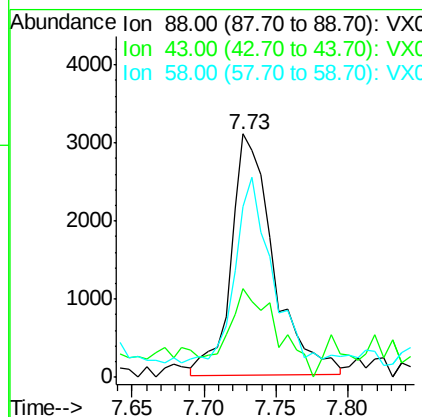
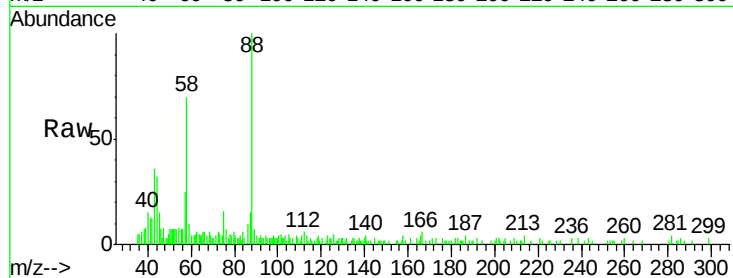
#45
1,4-Dioxane
Concen: 86.302 ug/l
RT: 7.73 min Scan# 1122
Delta R.T. -0.01 min
Lab File: VX015126.D
Acq: 06 Mar 2020 14:54

Instrument :
MSVOA_X
ClientSampleId :
400304782.2-VOA

Tot Ion	Ratio	Lower	Upper
88	100		
43	16.6	25.4	38.2#
58	60.6	55.8	83.8

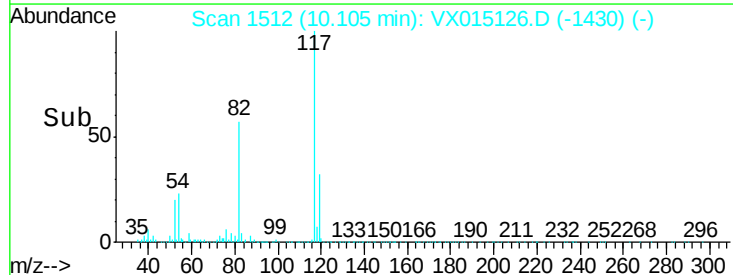
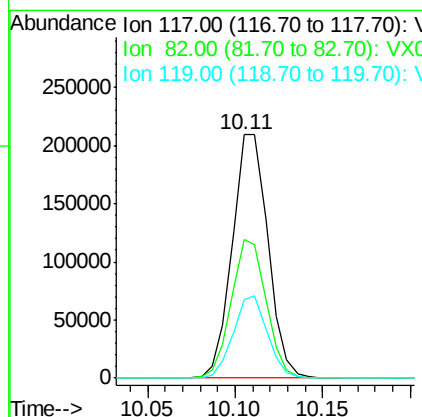
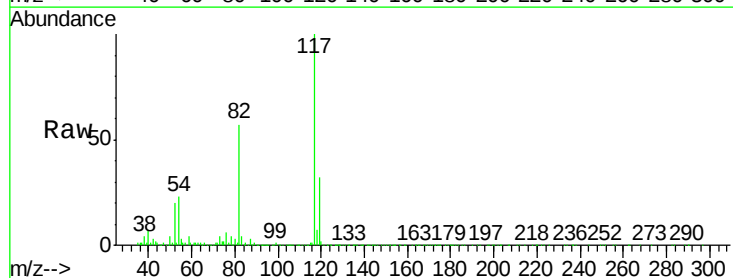
Manual Integrations
APPROVED

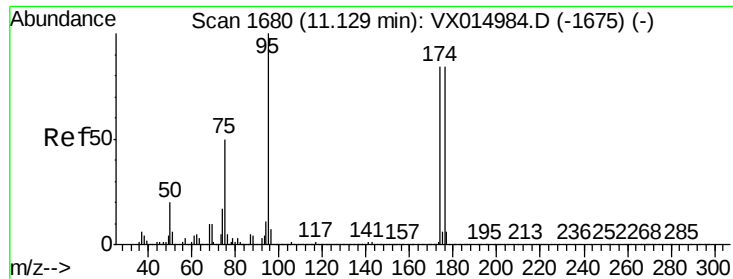
MMDadoda
3/9/2020 9:39:24 AM



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.11 min Scan# 1512
Delta R.T. 0.00 min
Lab File: VX015126.D
Acq: 06 Mar 2020 14:54

Tgt Ion	Ratio	Lower	Upper
117	100		
82	56.3	43.4	65.2
119	32.8	26.0	39.0





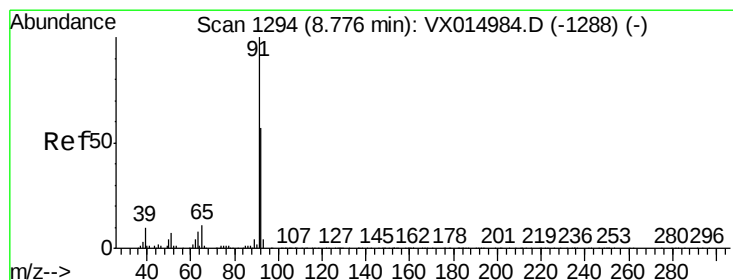
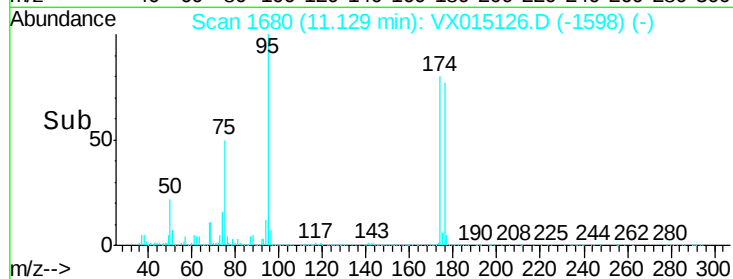
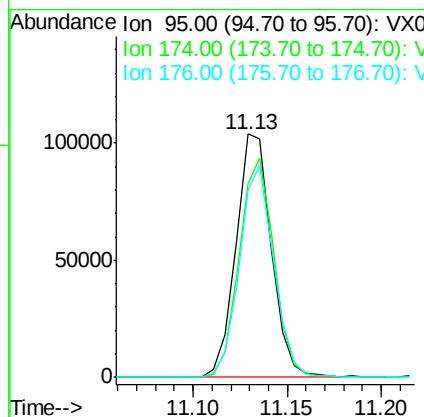
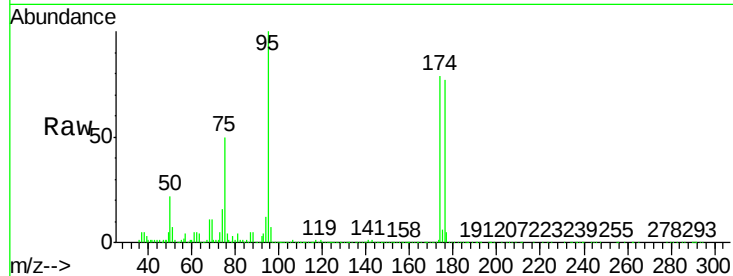
#60
4-Bromofluorobenzene
Concen: 29.086 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. 0.00 min
Lab File: VX015126.D
Acq: 06 Mar 2020 14:54

Instrument :
MSVOA_X
ClientSampleId :
400304782.2-VOA

Tot Ion	Ratio	Lower	Upper
95	100		
174	88.8	72.3	108.5
176	84.8	72.0	108.0

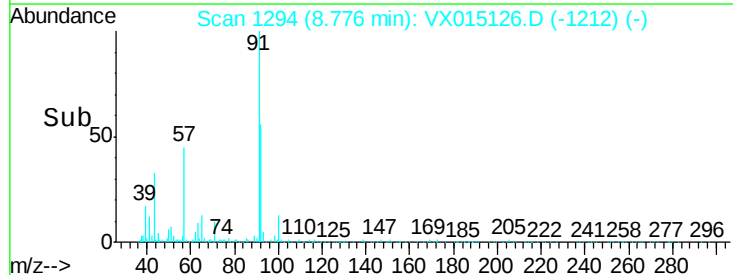
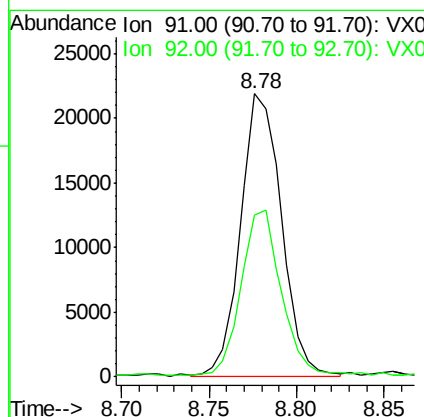
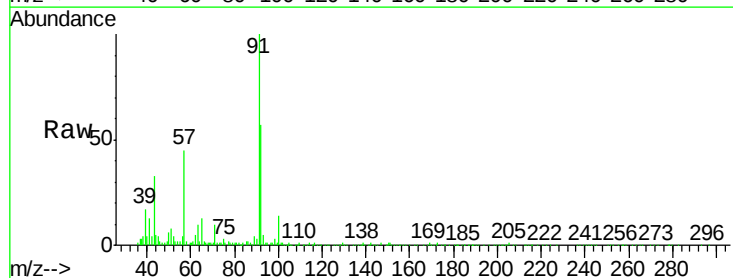
Manual Integrations
APPROVED

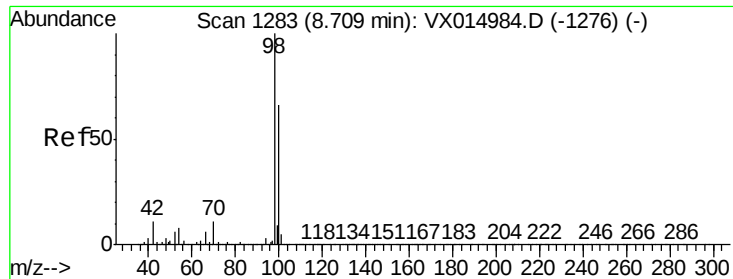
MMDadoda
3/9/2020 9:39:24 AM



#62
Toluene
Concen: 2.330 ug/l
RT: 8.78 min Scan# 1294
Delta R.T. 0.00 min
Lab File: VX015126.D
Acq: 06 Mar 2020 14:54

Tgt Ion	Ratio	Lower	Upper
91	100		
92	57.3	46.6	69.8





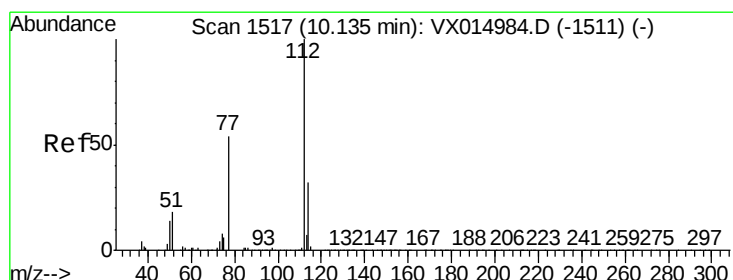
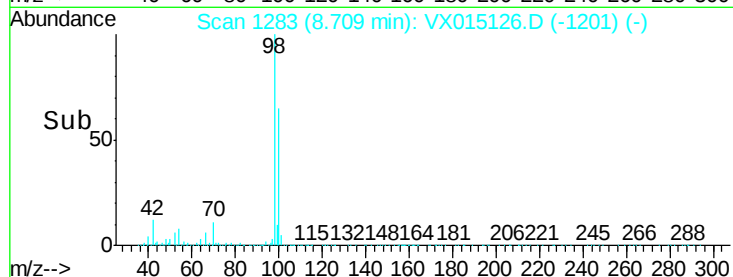
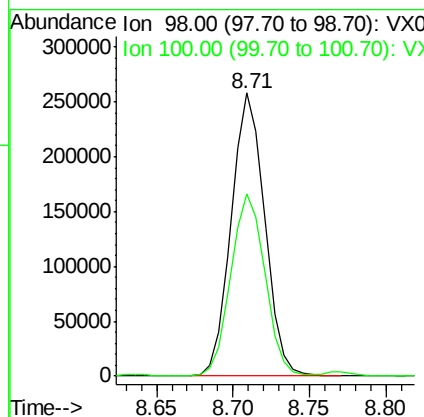
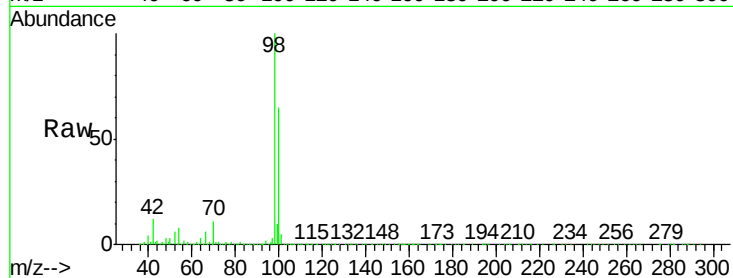
#63
Toluene-d8
Concen: 30.118 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. 0.00 min
Lab File: VX015126.D
Acq: 06 Mar 2020 14:54

Instrument :
MSVOA_X
ClientSampleId :
400304782.2-VOA

Tot Ion: 98 Resp: 390223
Ion Ratio Lower Upper
98 100
100 65.7 52.8 79.2

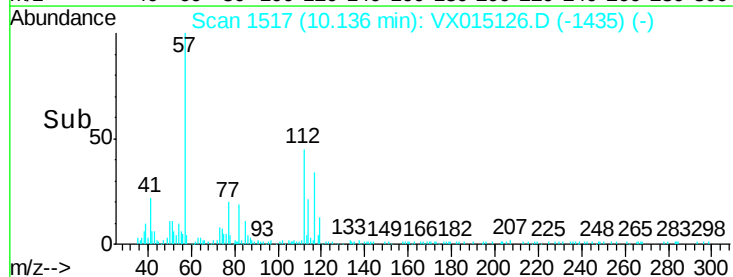
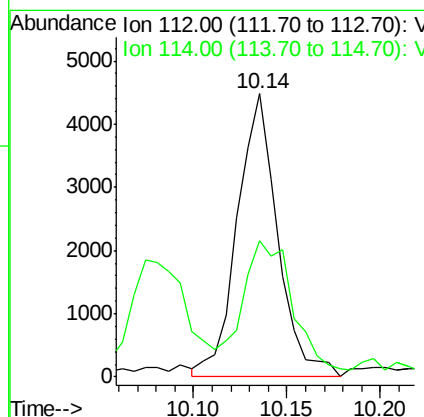
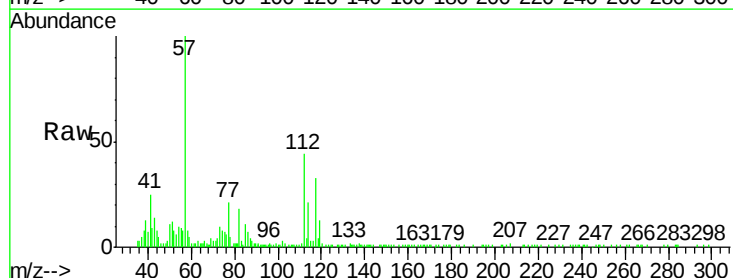
Manual Integrations
APPROVED

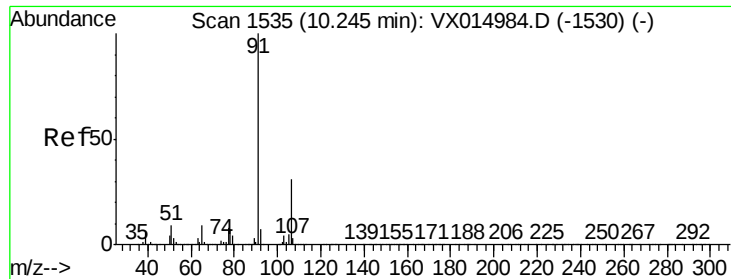
MMDadoda
3/9/2020 9:39:24 AM



#64
Chlorobenzene
Concen: 0.693 ug/l m
RT: 10.14 min Scan# 1517
Delta R.T. 0.00 min
Lab File: VX015126.D
Acq: 06 Mar 2020 14:54

Tgt Ion: 112 Resp: 6731
Ion Ratio Lower Upper
112 100
114 48.1 25.8 38.6#





#66

Ethyl Benzene

Concen: 0.802 ug/l

RT: 10.25 min Scan# 1535

Delta R.T. 0.00 min

Lab File: VX015126.D

Acq: 06 Mar 2020 14:54

Instrument :

MSVOA_X

ClientSampleId :

400304782.2-VOA

Tot Ion: 91 Resp: 13450

Ion Ratio Lower Upper

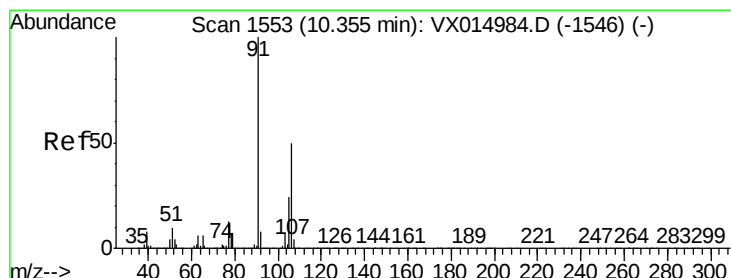
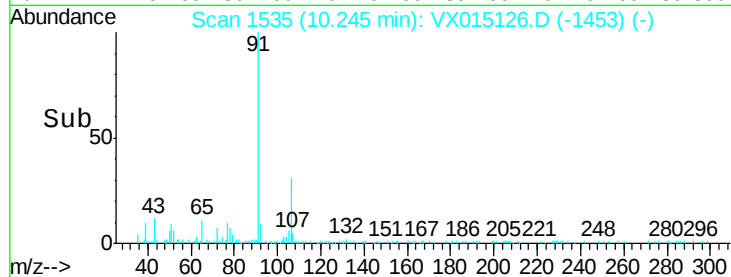
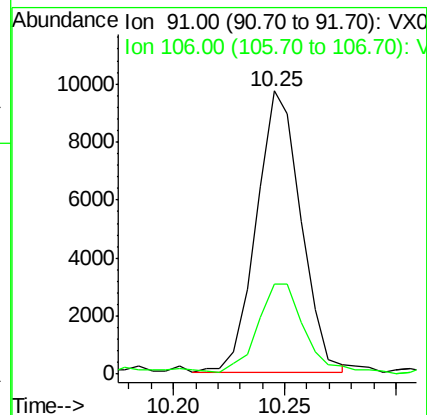
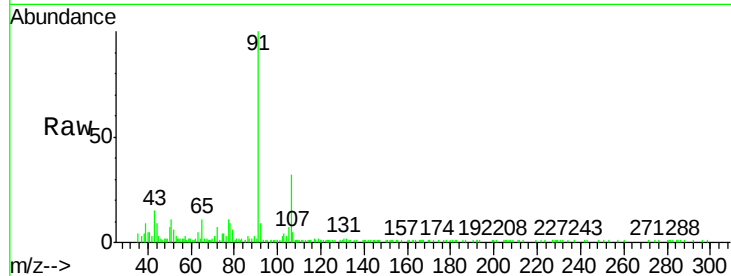
91 100

106 30.3 24.7 37.1

Manual Integrations
APPROVED

MMDadoda

3/9/2020 9:39:24 AM



#67

m/p-Xylenes

Concen: 7.242 ug/l

RT: 10.35 min Scan# 1553

Delta R.T. 0.00 min

Lab File: VX015126.D

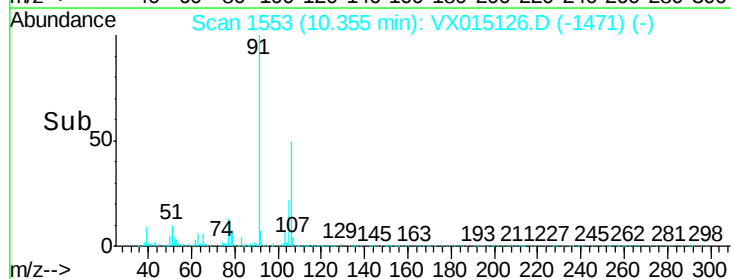
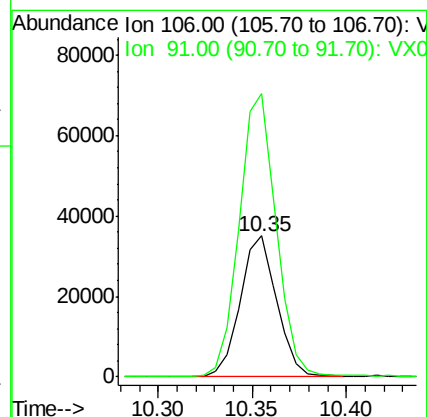
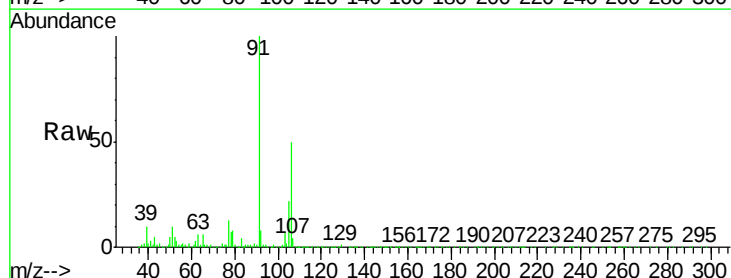
Acq: 06 Mar 2020 14:54

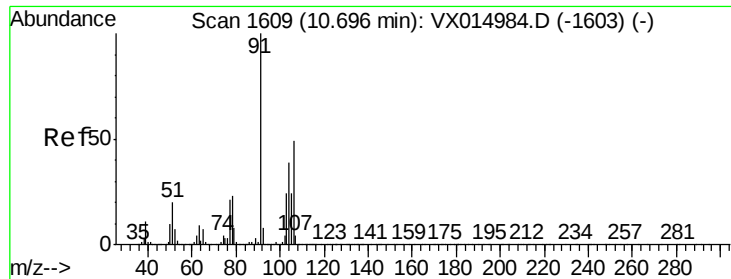
Tgt Ion: 106 Resp: 46816

Ion Ratio Lower Upper

106 100

91 203.5 160.4 240.6





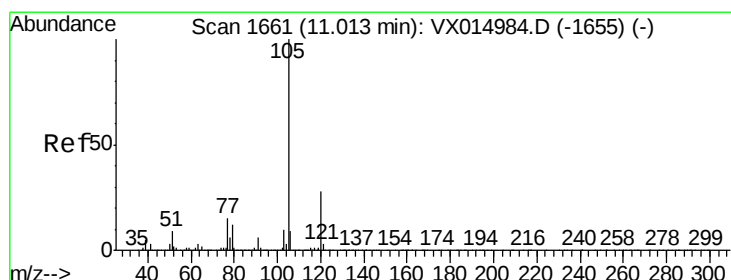
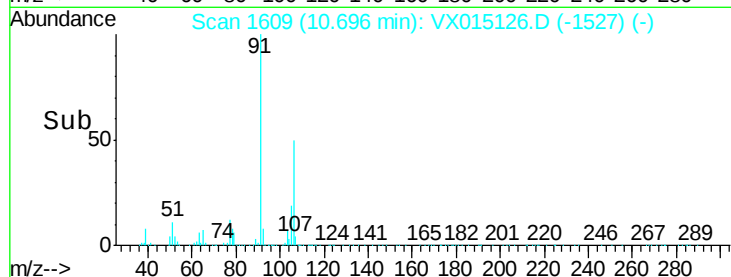
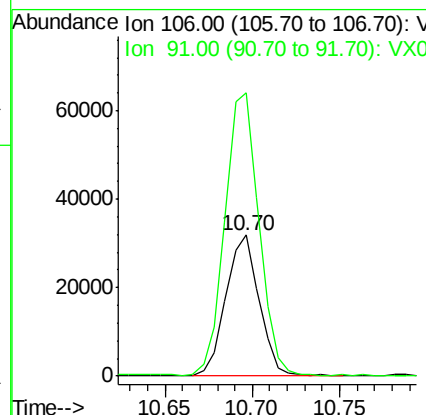
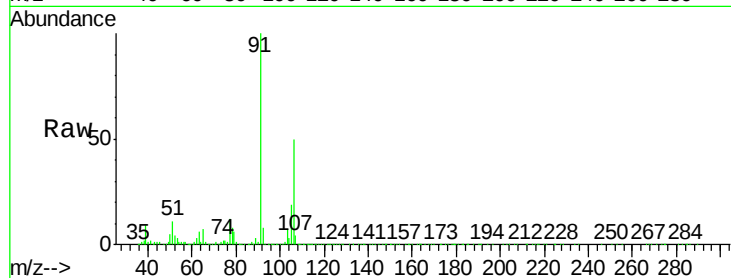
#68
o-Xylene
Concen: 6.676 ug/l
RT: 10.70 min Scan# 1609
Delta R.T. 0.00 min
Lab File: VX015126.D
Acq: 06 Mar 2020 14:54

Instrument :
MSVOA_X
ClientSampled :
400304782.2-VOA

Tot Ion	Ratio	Lower	Upper
106	100		
91	207.1	105.3	315.9

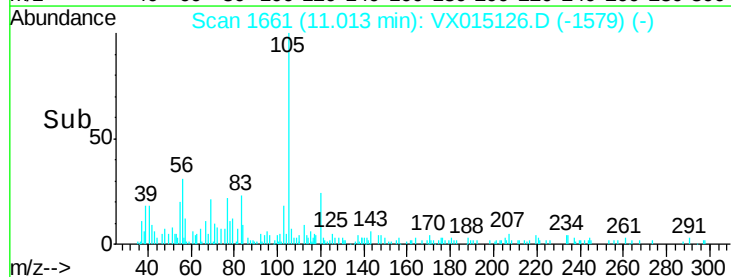
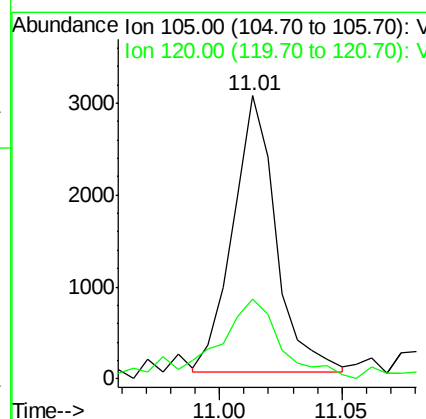
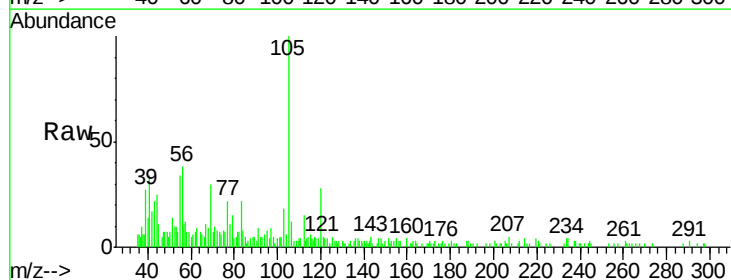
Manual Integrations
APPROVED

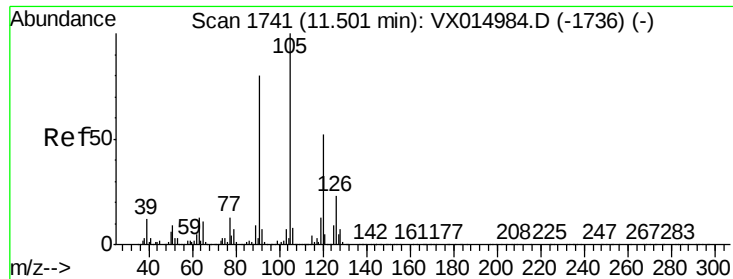
MMDadoda
3/9/2020 9:39:24 AM



#70
Isopropylbenzene
Concen: 0.222 ug/l
RT: 11.01 min Scan# 1661
Delta R.T. 0.00 min
Lab File: VX015126.D
Acq: 06 Mar 2020 14:54

Tgt Ion	Ratio	Lower	Upper
105	100		
120	27.3	18.8	35.0





#76

1,3,5-Trimethylbenzene

Concen: 0.894 ug/l

RT: 11.50 min Scan# 1741

Delta R.T. 0.00 min

Lab File: VX015126.D

Acq: 06 Mar 2020 14:54

Instrument :

MSVOA_X

ClientSampleId :

400304782.2-VOA

Tot Ion:105 Resp: 12451

Ion Ratio Lower Upper

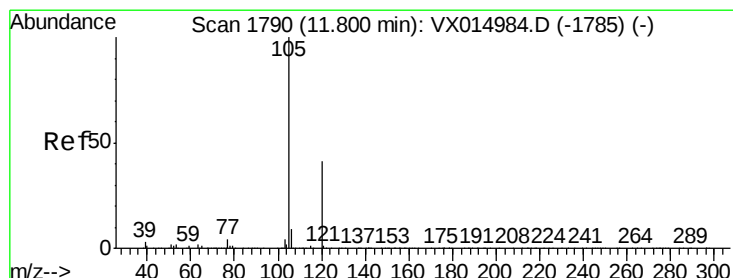
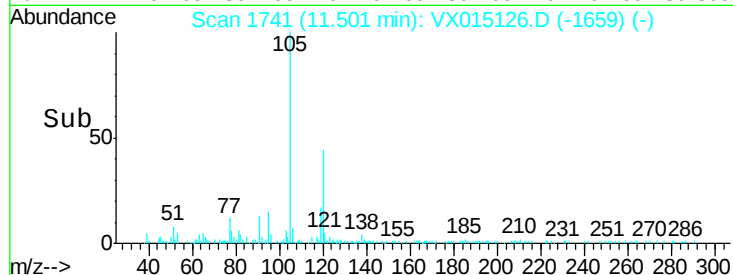
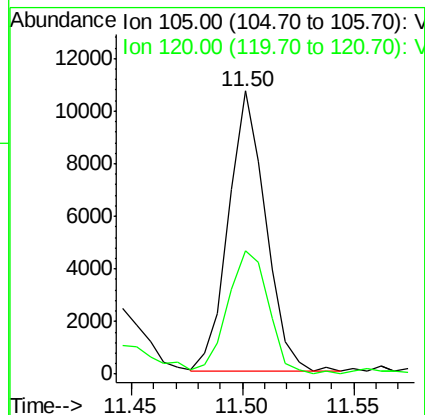
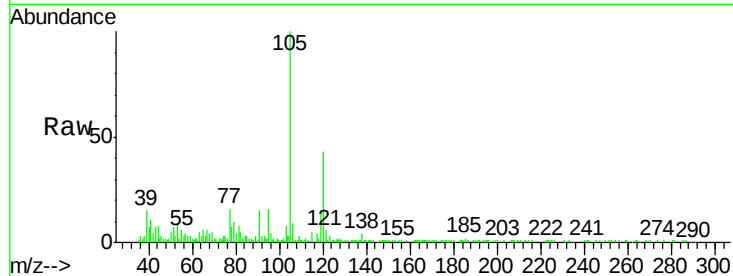
105 100

120 48.3 0.0 101.0

Manual Integrations
APPROVED

MMDadoda

3/9/2020 9:39:24 AM



#80

1,2,4-Trimethylbenzene

Concen: 2.300 ug/l

RT: 11.81 min Scan# 1791

Delta R.T. 0.01 min

Lab File: VX015126.D

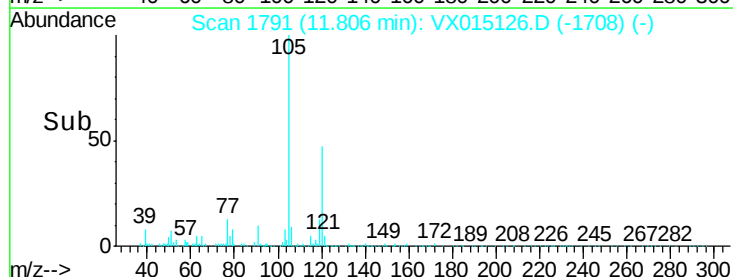
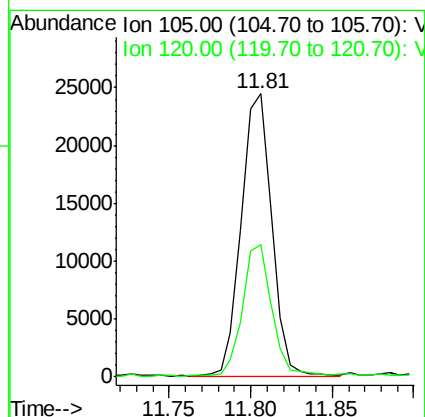
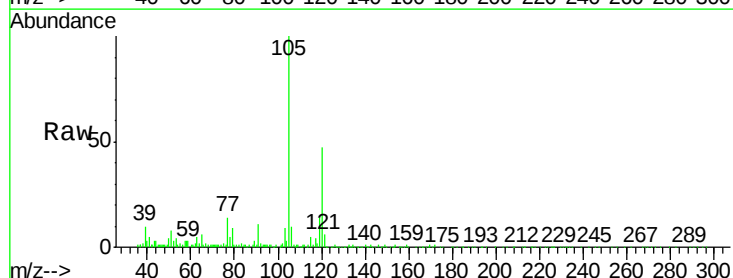
Acq: 06 Mar 2020 14:54

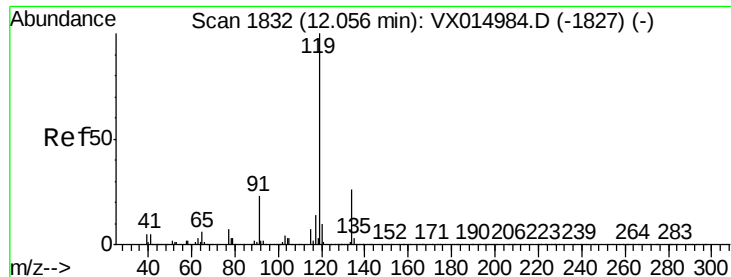
Tgt Ion:105 Resp: 31845

Ion Ratio Lower Upper

105 100

120 44.9 0.0 93.4





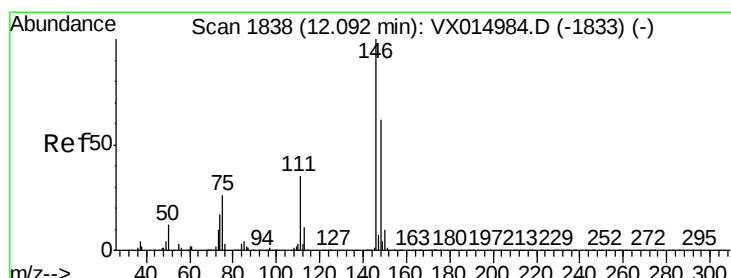
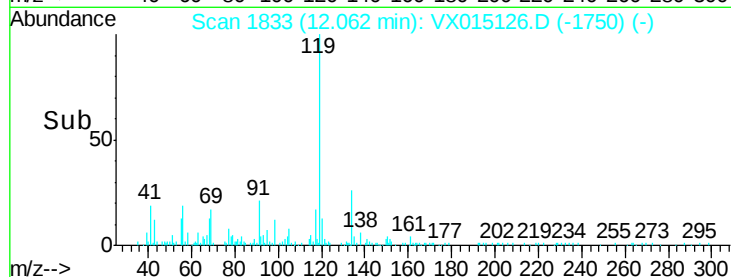
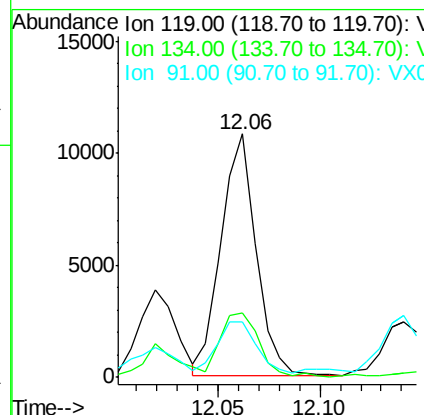
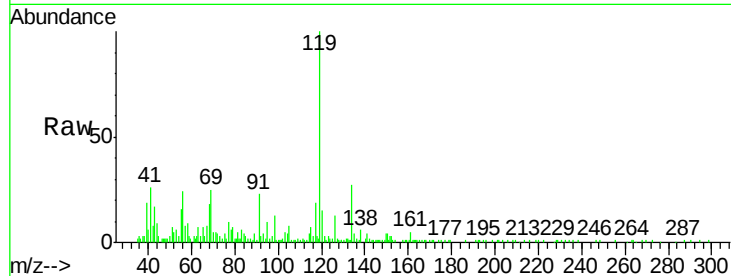
#82
 p-Isopropyltoluene
 Concen: 0.855 ug/l
 RT: 12.06 min Scan# 1833
 Delta R.T. 0.01 min
 Lab File: VX015126.D
 Acq: 06 Mar 2020 14:54

Instrument :
 MSVOA_X
 ClientSampleId :
 400304782.2-VOA

Tot Ion:	119	Resp:	12790
Ion Ratio	Lower	Upper	
119	100		
134	27.1	0.0	53.2
91	23.3	0.0	44.6

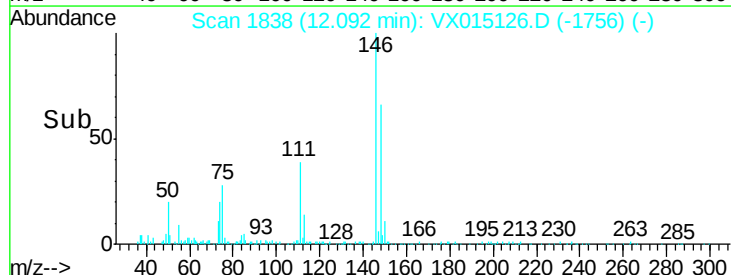
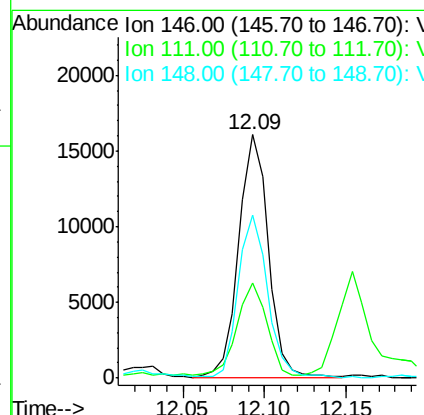
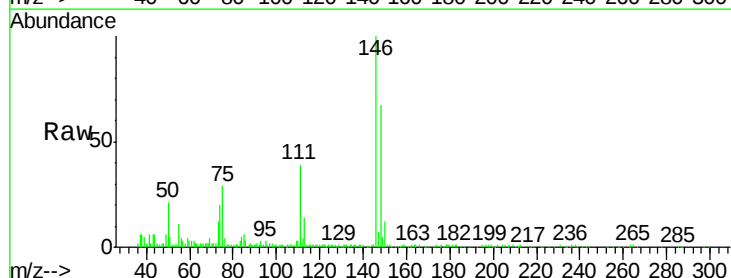
Manual Integrations
 APPROVED

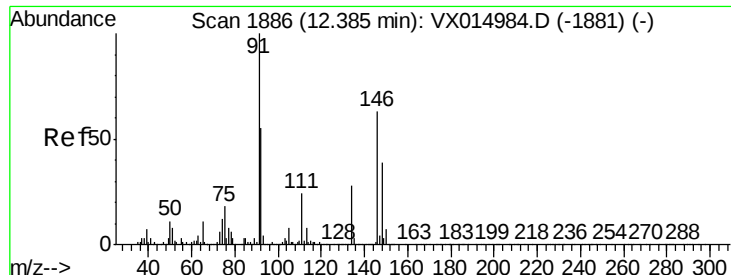
MMDadoda
 3/9/2020 9:39:24 AM



#84
 1,4-Dichlorobenzene
 Concen: 2.551 ug/l
 RT: 12.09 min Scan# 1838
 Delta R.T. 0.00 min
 Lab File: VX015126.D
 Acq: 06 Mar 2020 14:54

Tgt Ion:	146	Resp:	20215
Ion Ratio	Lower	Upper	
146	100		
111	39.3	17.8	53.5
148	65.8	31.4	94.2





#87
 1,2-Dichlorobenzene
 Concen: 0.220 ug/l
 RT: 12.39 min Scan# 1886
 Delta R.T. 0.00 min
 Lab File: VX015126.D
 Acq: 06 Mar 2020 14:54

Instrument :
 MSVOA_X
 ClientSampleId :
 400304782.2-VOA

Tot Ion	Ratio	Lower	Upper
146	100		
111	53.9	19.7	59.1
148	80.9	32.0	96.0

Manual Integrations
 APPROVED

MMDadoda
 3/9/2020 9:39:24 AM

