

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX112219\
 Data File : VX013545.D
 Acq On : 22 Nov 2019 19:51
 Operator : JC/SP
 Sample : K5979-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 391120775.1-VOA

Quant Time: Nov 25 08:53:34 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X111119W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Nov 12 01:16:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.00	128	99749	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	545076	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	491909	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.05	65	223164	30.30	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	101.00%
60) 4-Bromofluorobenzene	11.14	95	228026	28.84	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	96.13%
63) Toluene-d8	8.71	98	652065	29.31	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	97.70%

Target Compounds

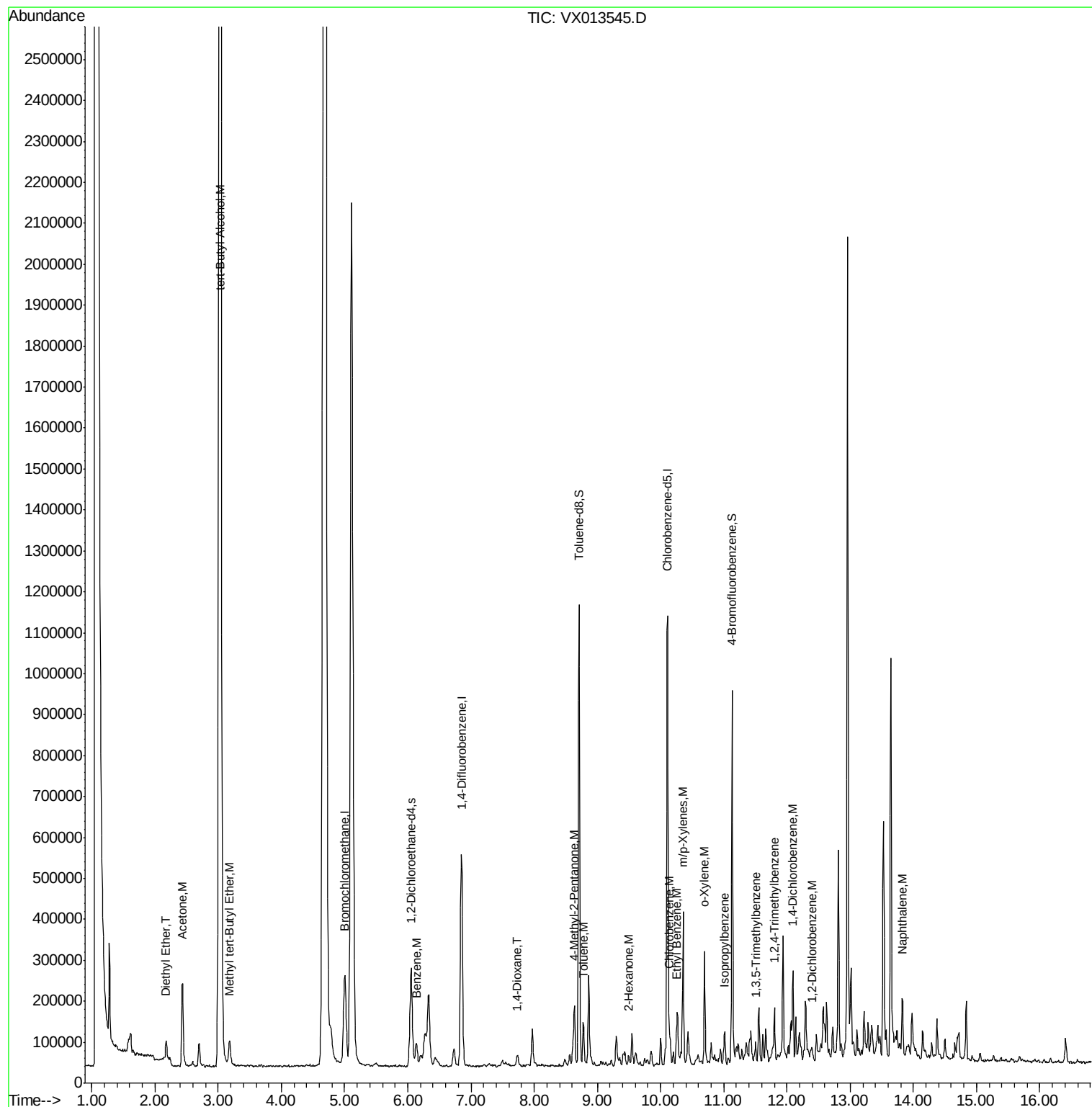
					Ovalue
8) Diethyl Ether	2.17	74	16297	3.582	ug/l 98
15) Acetone	2.43	58	46861	38.978	ug/l 96
23) tert-Butyl Alcohol	3.03	59	10194522	5336.472	ug/l # 100
24) Methyl tert-Butyl Ether	3.19	73	62587	3.070	ug/l 97
34) Benzene	6.14	78	73050	2.893	ug/l 97
45) 1,4-Dioxane	7.73	88	20959	117.833	ug/l 92
58) 4-Methyl-2-Pentanone	8.64	43	102962	10.020	ug/l 89
59) 2-Hexanone	9.49	43	11142	1.370	ug/l 90
62) Toluene	8.78	91	59239	2.162	ug/l 97
64) Chlorobenzene	10.14	112	16119	0.941	ug/l 92
66) Ethyl Benzene	10.25	91	32169	1.069	ug/l 96
67) m/p-Xylenes	10.35	106	81305	7.002	ug/l 100
68) o-Xylene	10.70	106	61610	5.498	ug/l 96
70) Isopropylbenzene	11.01	105	30605	1.036	ug/l 99
76) 1,3,5-Trimethylbenzene	11.50	105	20643	0.832	ug/l 100
80) 1,2,4-Trimethylbenzene	11.81	105	55934	2.261	ug/l 96
84) 1,4-Dichlorobenzene	12.09	146	71097	5.232	ug/l 99
87) 1,2-Dichlorobenzene	12.38	146	5629	0.411	ug/l 96
91) Naphthalene	13.83	128	27649	0.925	ug/l 98

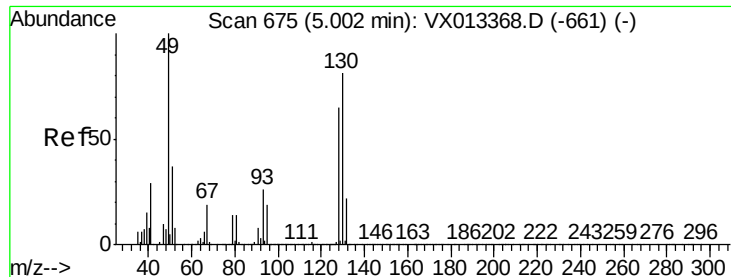
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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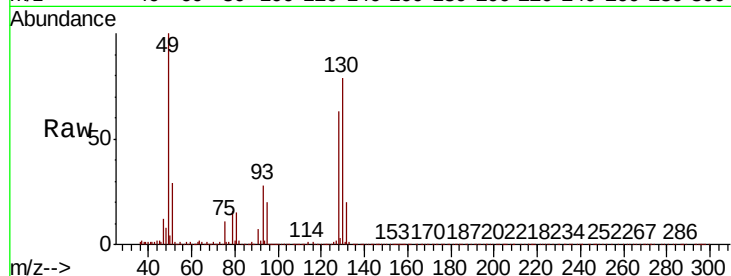




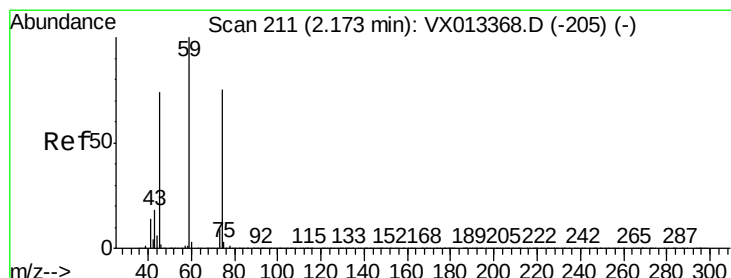
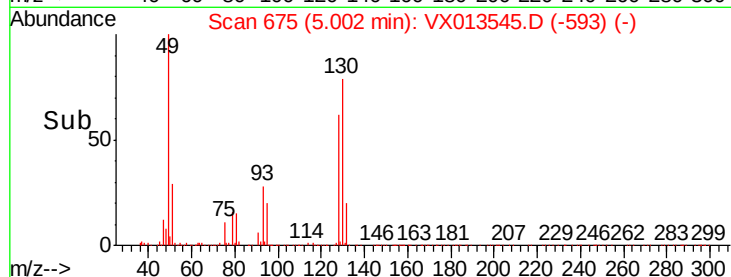
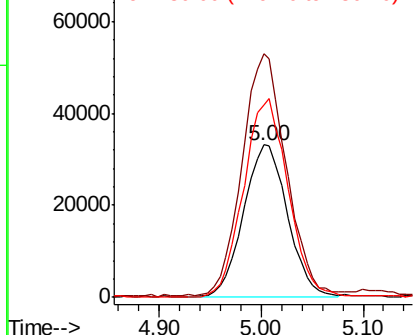
#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 5.00 min Scan# 675
Delta R.T. -0.00 min
Lab File: VX013545.D
Acq: 22 Nov 2019 19:51

Instrument :
MSVOA_X
ClientSampleId :
391120775.1-VOA

Tot Ion:128 Resp: 99749
Ion Ratio Lower Upper
128 100
49 159.5 0.0 388.3
130 131.3 0.0 318.5

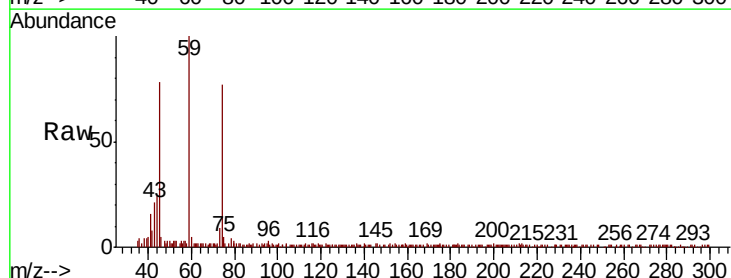


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 49.00 (48.70 to 49.70): VX0
Ion 130.00 (129.70 to 130.70): V

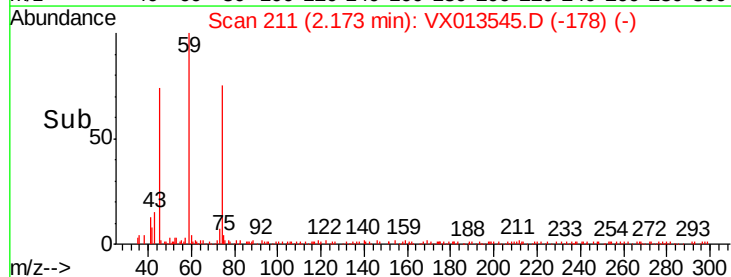
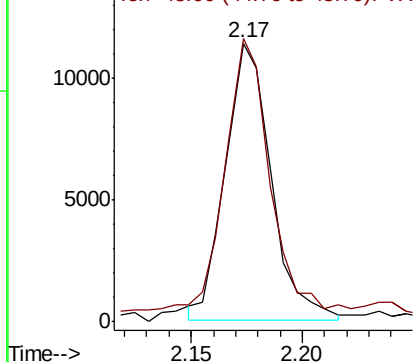


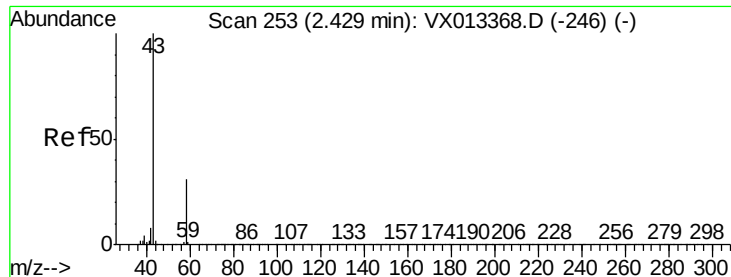
#8
Diethyl Ether
Concen: 3.582 ug/l
RT: 2.17 min Scan# 211
Delta R.T. -0.00 min
Lab File: VX013545.D
Acq: 22 Nov 2019 19:51

Tgt Ion: 74 Resp: 16297
Ion Ratio Lower Upper
74 100
45 95.6 19.5 175.5



Abundance Ion 74.00 (73.70 to 74.70): VX0
Ion 45.00 (44.70 to 45.70): VX0





#15

Acetone

Concen: 38.978 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.00 min

Lab File: VX013545.D

Acq: 22 Nov 2019 19:51

Instrument :

MSVOA_X

ClientSampleId :

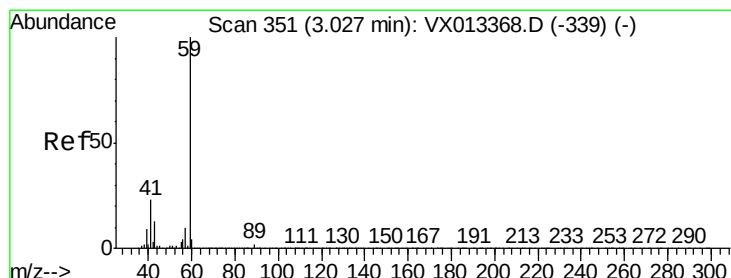
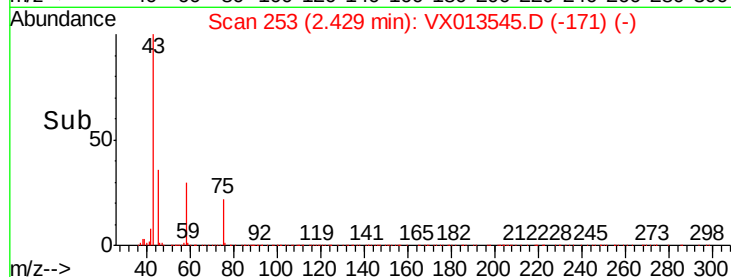
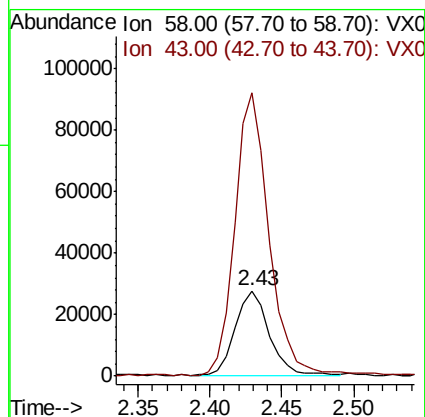
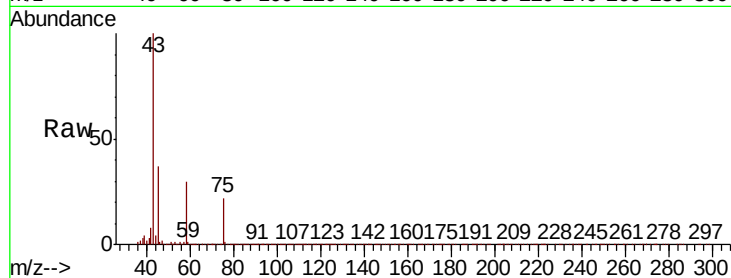
391120775.1-VOA

Tot Ion: 58 Resp: 46861

Ion Ratio Lower Upper

58 100

43 334.8 261.4 392.2



#23

tert-Butyl Alcohol

Concen: 5336.472 ug/l

RT: 3.03 min Scan# 351

Delta R.T. -0.00 min

Lab File: VX013545.D

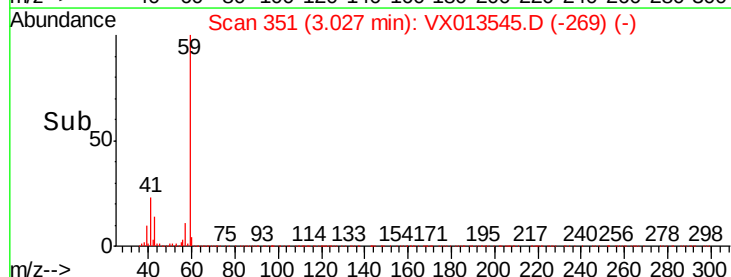
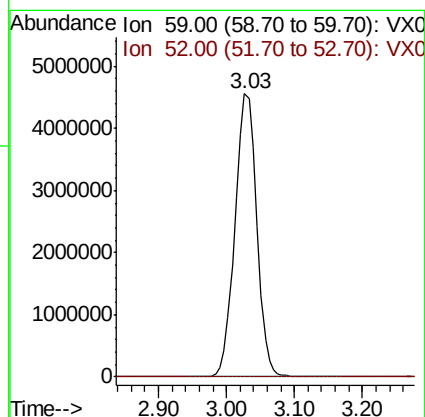
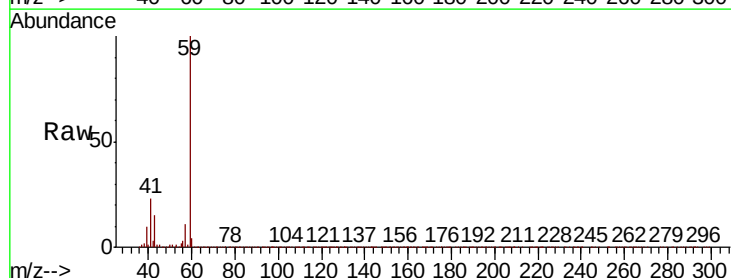
Acq: 22 Nov 2019 19:51

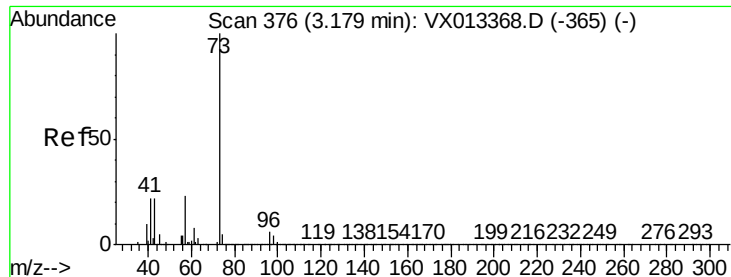
Tgt Ion: 59 Resp: 10194522

Ion Ratio Lower Upper

59 100

52 0.2 0.1 0.1#



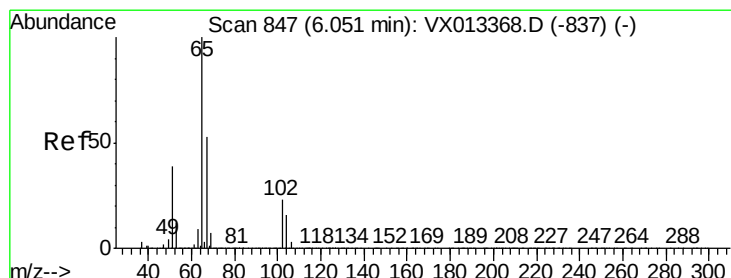
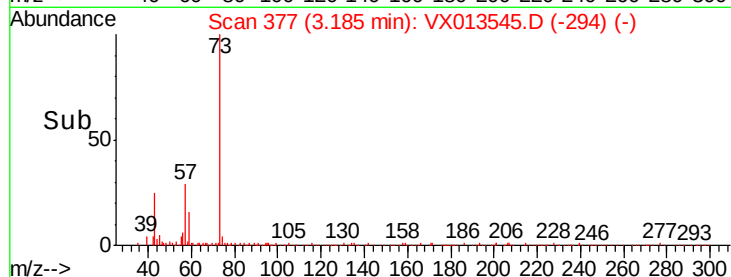
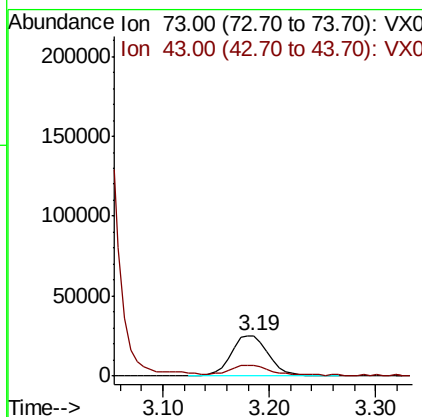
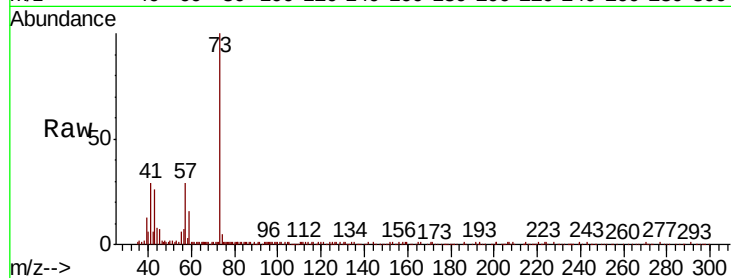


#24

Methyl tert-Butyl Ether
 Concen: 3.070 ug/l
 RT: 3.19 min Scan# 377
 Delta R.T. 0.01 min
 Lab File: VX013545.D
 Acq: 22 Nov 2019 19:51

Instrument :
 MSVOA_X
 ClientSampleId :
 391120775.1-VOA

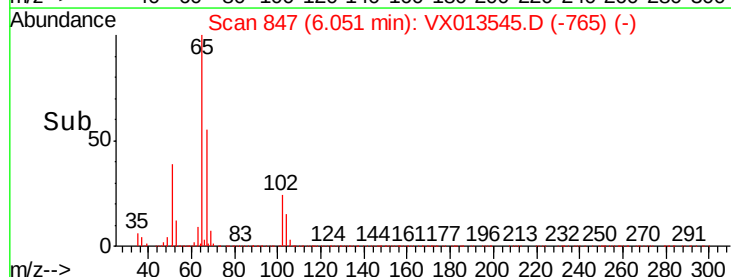
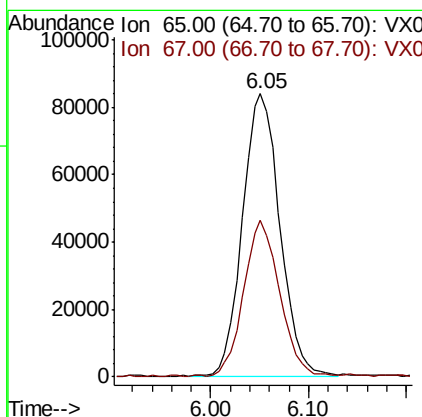
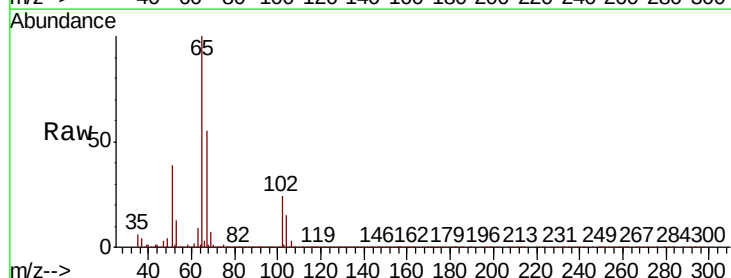
Tot Ion: 73 Resp: 62587
 Ion Ratio Lower Upper
 73 100
 43 22.6 17.0 25.6

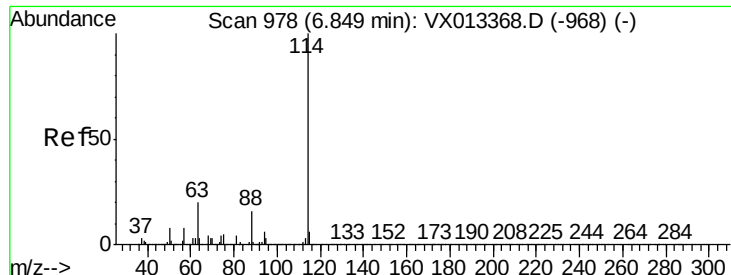


#27

1,2-Dichloroethane-d4
 Concen: 30.298 ug/l
 RT: 6.05 min Scan# 847
 Delta R.T. -0.00 min
 Lab File: VX013545.D
 Acq: 22 Nov 2019 19:51

Tgt Ion: 65 Resp: 223164
 Ion Ratio Lower Upper
 65 100
 67 52.1 41.0 61.6

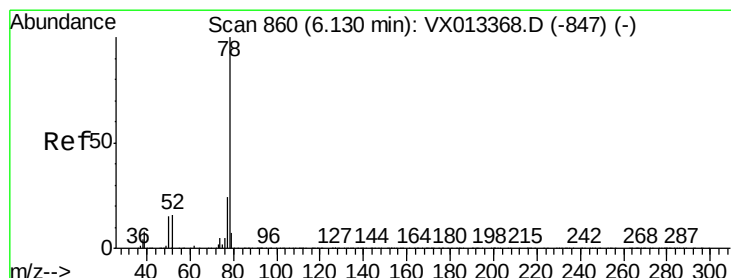
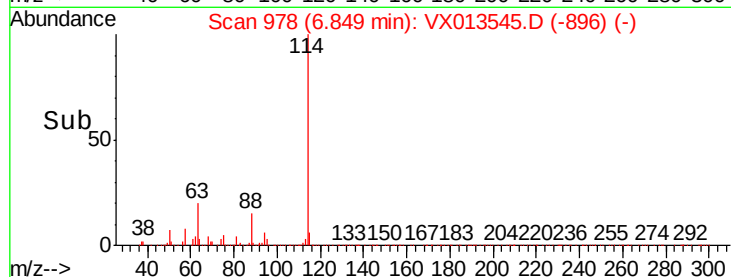
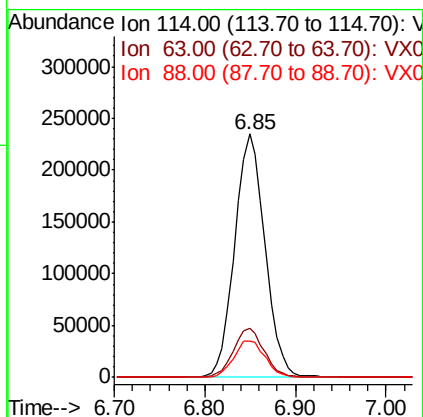
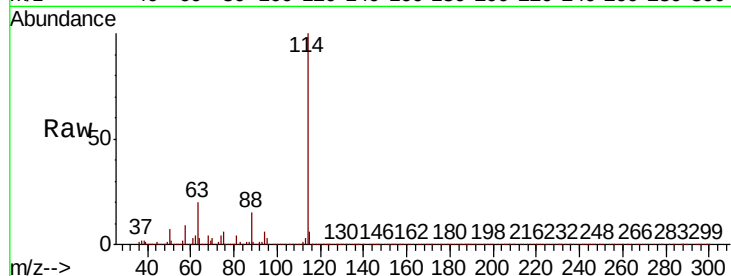




#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 6.85 min Scan# 978
Delta R.T. -0.00 min
Lab File: VX013545.D
Acq: 22 Nov 2019 19:51

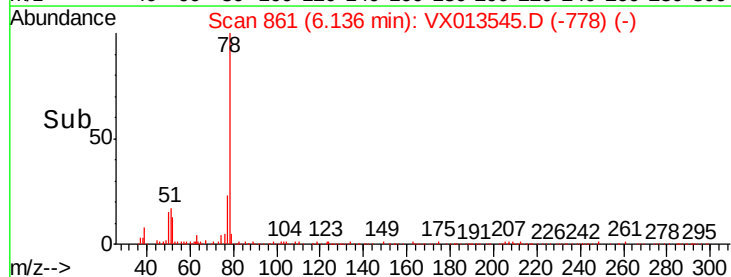
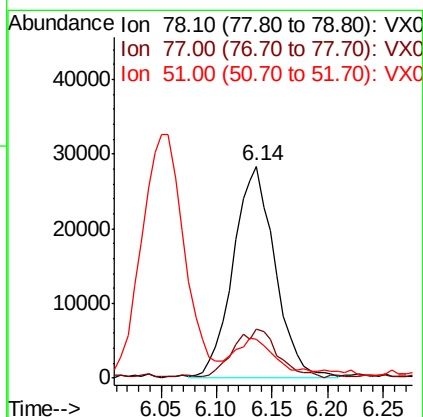
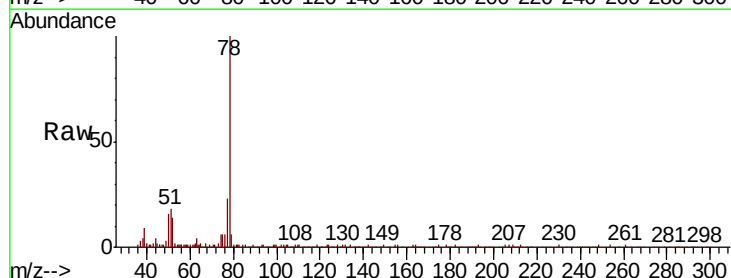
Instrument :
MSVOA_X
ClientSampleId :
391120775.1-VOA

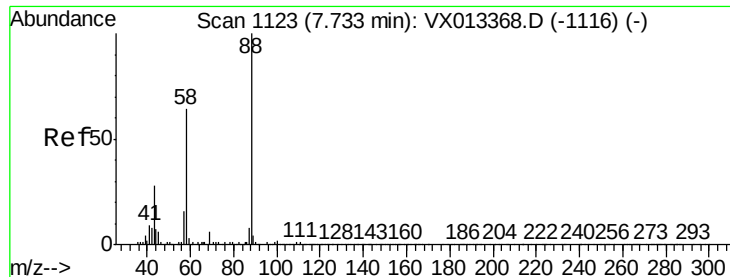
Tot Ion	Ratio	Lower	Upper
114	100		
63	20.2	16.1	24.1
88	15.6	12.3	18.5



#34
Benzene
Concen: 2.893 ug/l
RT: 6.14 min Scan# 861
Delta R.T. 0.01 min
Lab File: VX013545.D
Acq: 22 Nov 2019 19:51

Tgt Ion	Ratio	Lower	Upper
78	100		
77	22.2	19.3	28.9
51	15.6	12.2	18.4





#45

1,4-Dioxane

Concen: 117.833 ug/l

RT: 7.73 min Scan# 1123

Delta R.T. -0.00 min

Lab File: VX013545.D

Acq: 22 Nov 2019 19:51

Instrument :

MSVOA_X

ClientSampleId :

391120775.1-VOA

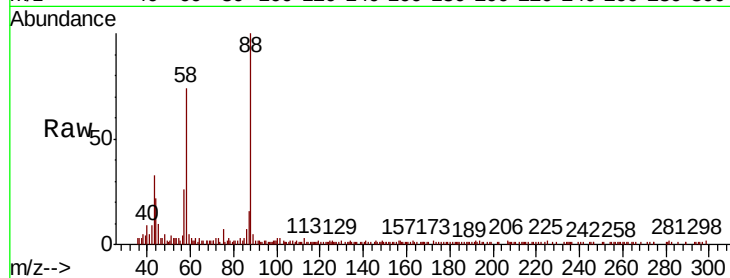
Tot Ion: 88 Resp: 20959

Ion Ratio Lower Upper

88 100

43 28.9 26.1 39.1

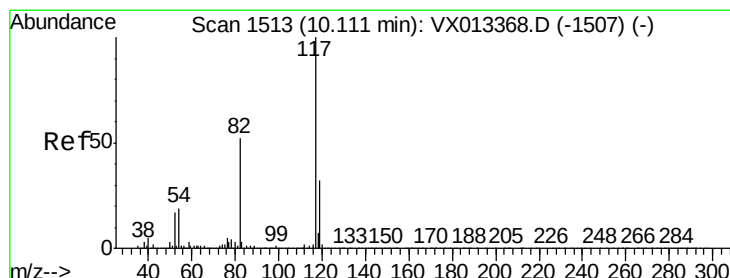
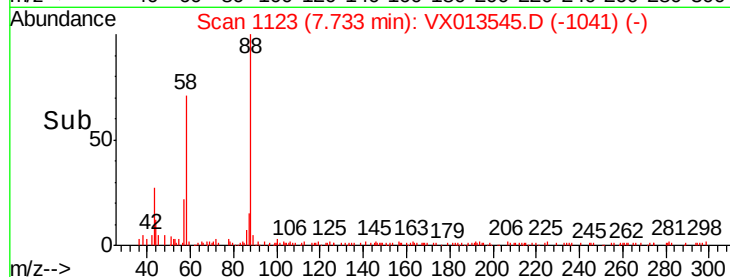
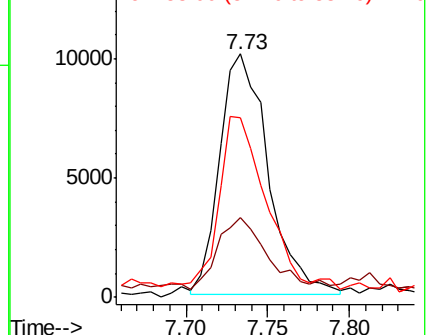
58 63.1 55.8 83.8



Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VX013545.D

Acq: 22 Nov 2019 19:51

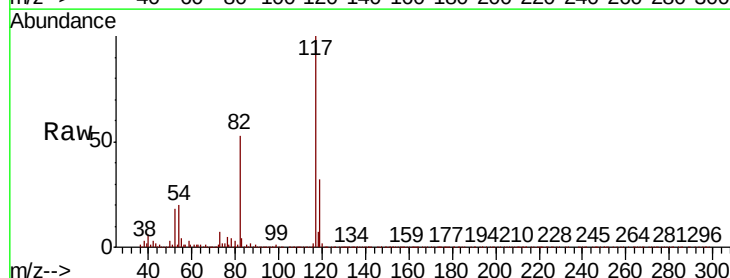
Tgt Ion: 117 Resp: 491909

Ion Ratio Lower Upper

117 100

82 54.0 43.7 65.5

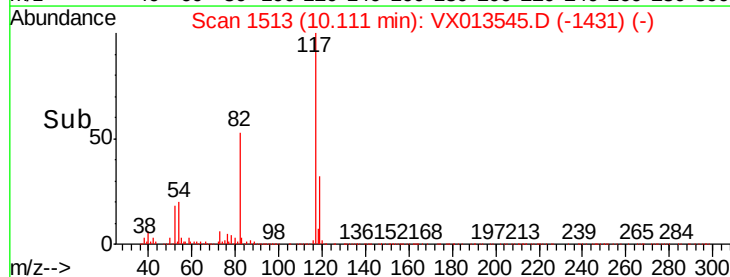
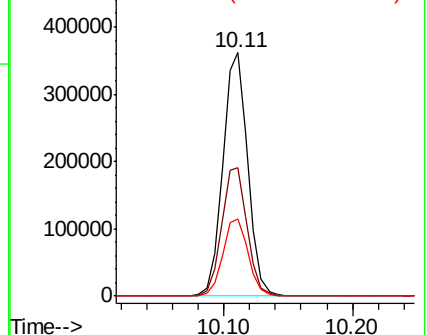
119 32.2 25.5 38.3

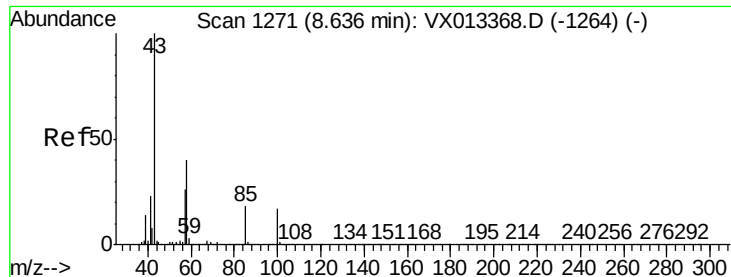


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 119.00 (118.70 to 119.70): V

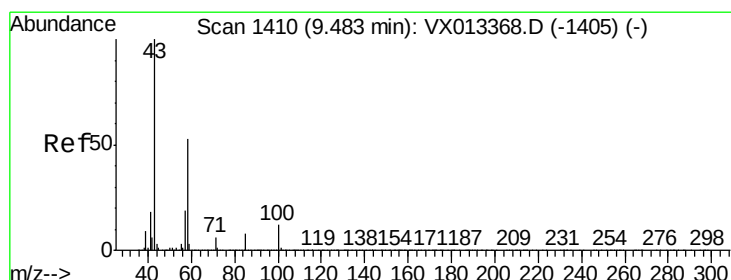
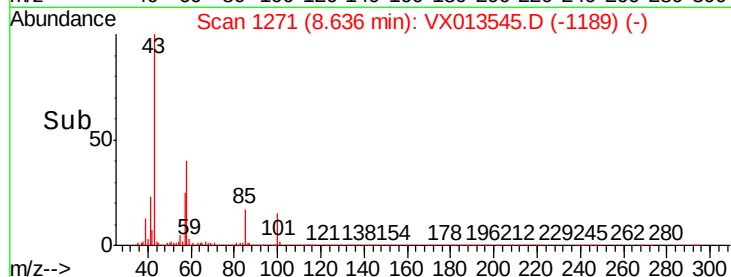
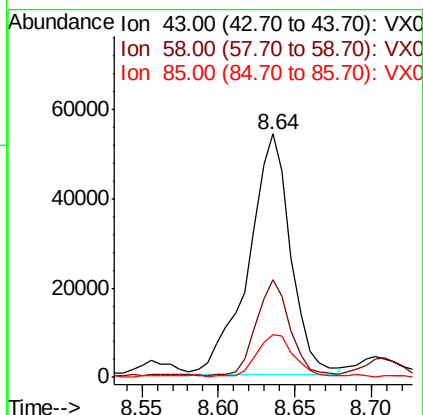
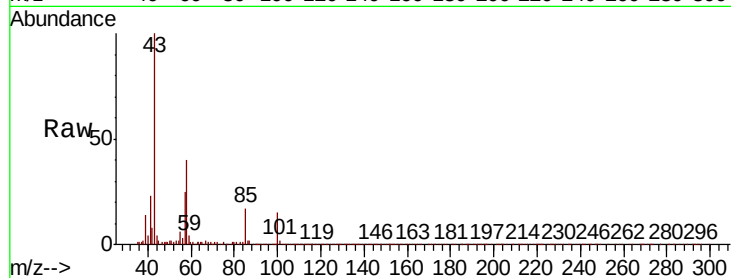




#58
4-Methyl-2-Pentanone
Concen: 10.020 ug/l
RT: 8.64 min Scan# 1271
Delta R.T. -0.00 min
Lab File: VX013545.D
Acq: 22 Nov 2019 19:51

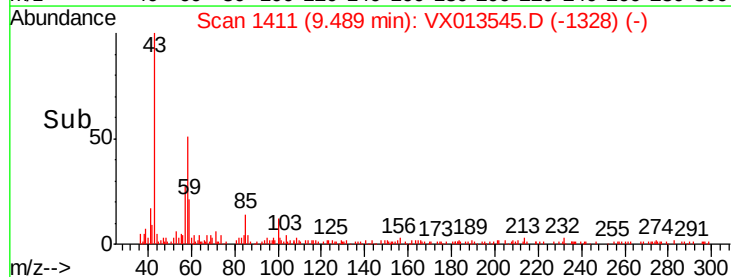
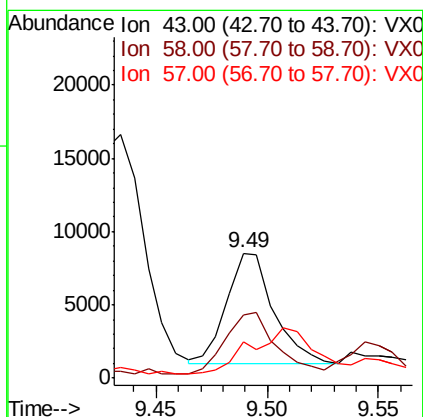
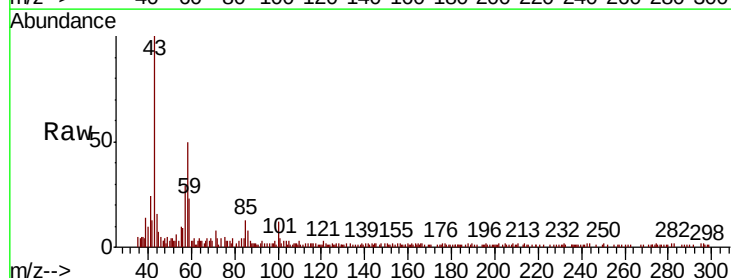
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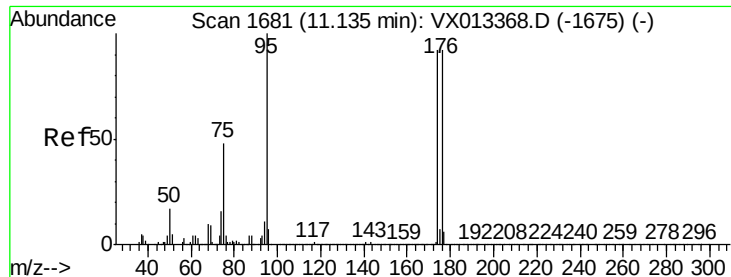
Tot Ion:	43	Resp:	102962
Ion	Ratio	Lower	Upper
43	100		
58	31.8	31.6	47.4
85	15.1	14.2	21.2



#59
2-Hexanone
Concen: 1.370 ug/l
RT: 9.49 min Scan# 1411
Delta R.T. 0.01 min
Lab File: VX013545.D
Acq: 22 Nov 2019 19:51

Tgt Ion:	43	Resp:	11142
Ion	Ratio	Lower	Upper
43	100		
58	63.2	43.8	65.6
57	16.3	15.1	22.7

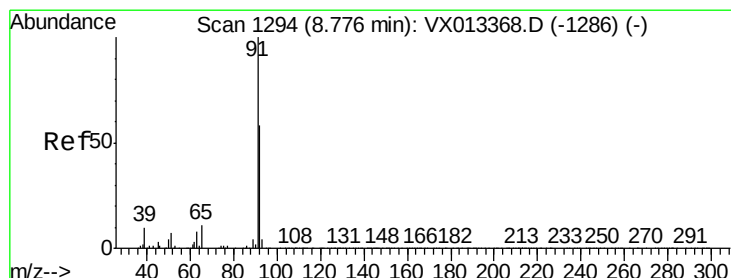
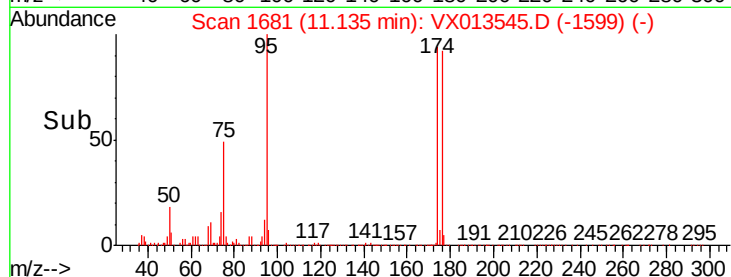
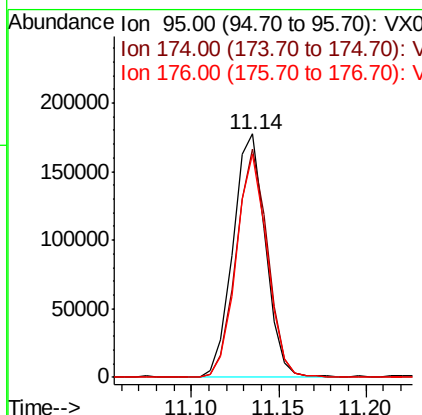
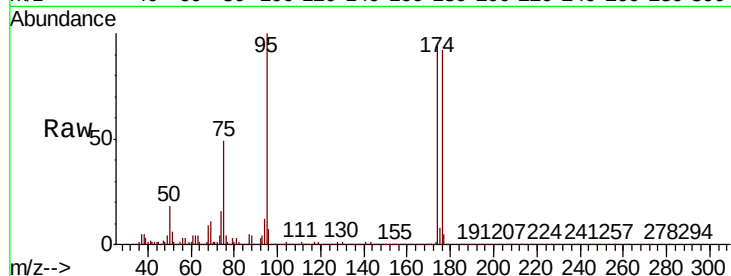




#60
4-Bromofluorobenzene
Concen: 28.841 ug/l
RT: 11.14 min Scan# 1681
Delta R.T. -0.00 min
Lab File: VX013545.D
Acq: 22 Nov 2019 19:51

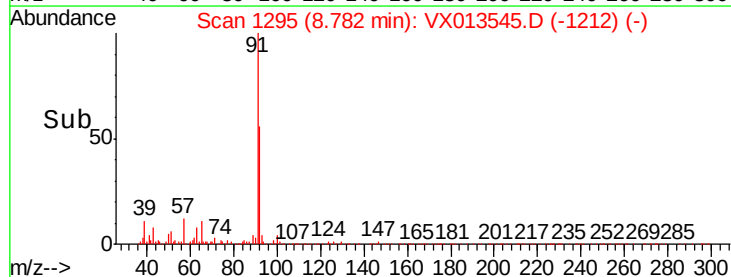
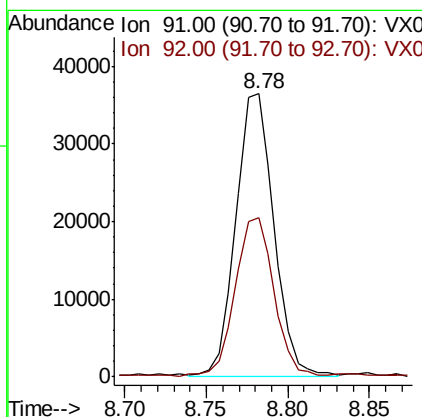
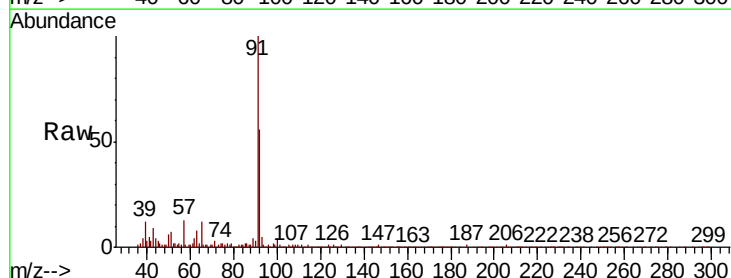
Instrument :
MSVOA_X
ClientSampleId :
391120775.1-VOA

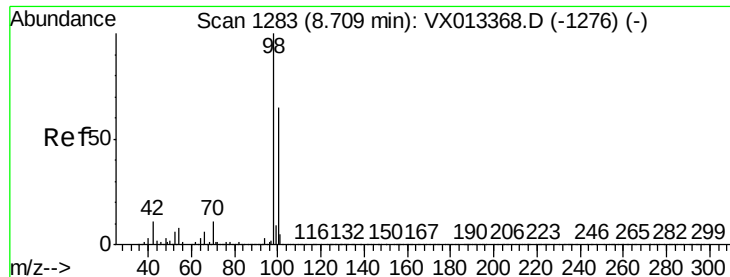
Tot Ion	95	Resp	228026
Ion Ratio	Lower	Upper	
95	100		
174	91.2	70.2	105.2
176	88.2	68.3	102.5



#62
Toluene
Concen: 2.162 ug/l
RT: 8.78 min Scan# 1295
Delta R.T. 0.01 min
Lab File: VX013545.D
Acq: 22 Nov 2019 19:51

Tgt Ion	91	Resp	59239
Ion Ratio	Lower	Upper	
91	100		
92	56.3	46.6	69.8





#63

Toluene-d8

Concen: 29.314 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX013545.D

Acq: 22 Nov 2019 19:51

Instrument :

MSVOA_X

ClientSampleId :

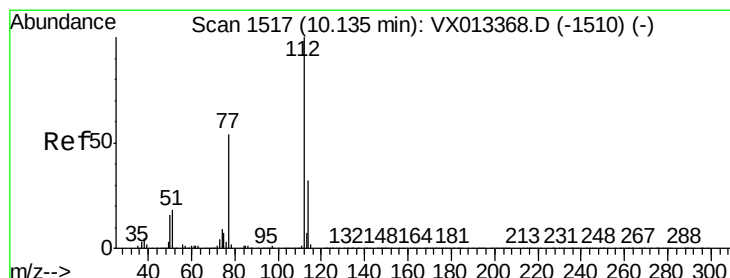
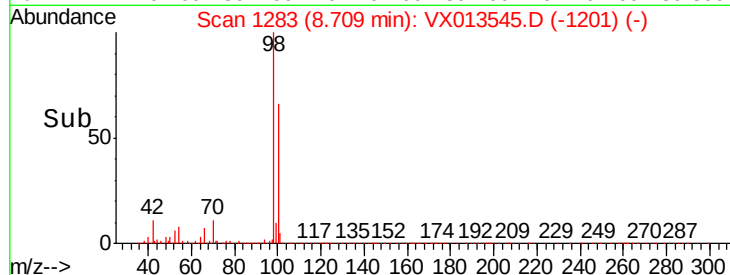
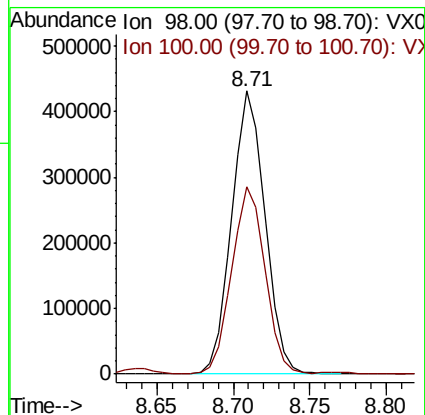
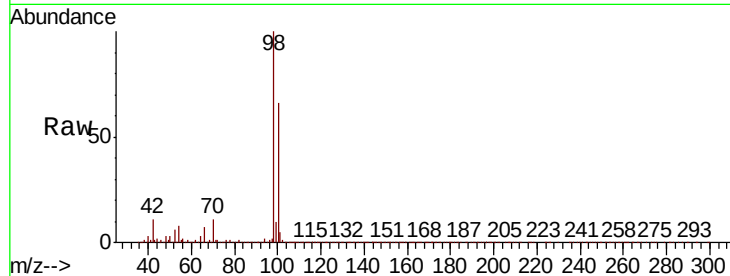
391120775.1-VOA

Tot Ion: 98 Resp: 652065

Ion Ratio Lower Upper

98 100

100 66.2 52.5 78.7



#64

Chlorobenzene

Concen: 0.941 ug/l

RT: 10.14 min Scan# 1517

Delta R.T. -0.00 min

Lab File: VX013545.D

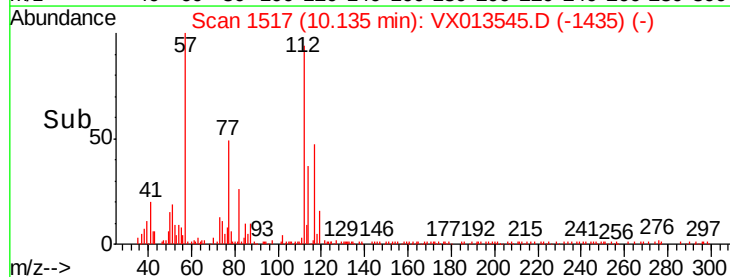
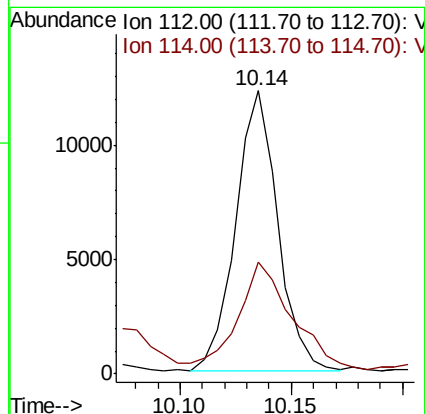
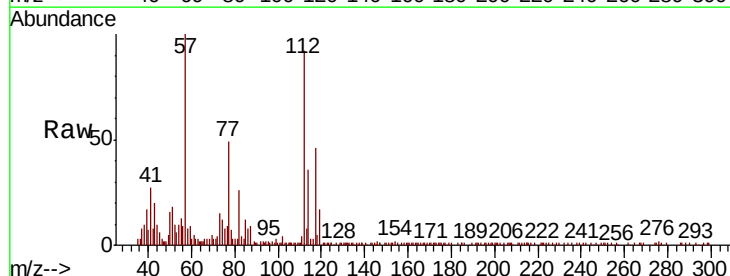
Acq: 22 Nov 2019 19:51

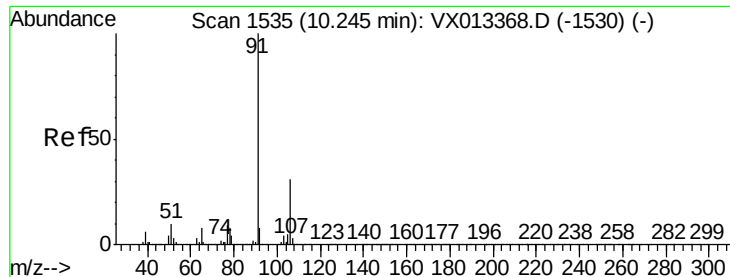
Tgt Ion: 112 Resp: 16119

Ion Ratio Lower Upper

112 100

114 36.3 25.7 38.5





#66

Ethyl Benzene

Concen: 1.069 ug/l

RT: 10.25 min Scan# 1536

Delta R.T. 0.01 min

Lab File: VX013545.D

Acq: 22 Nov 2019 19:51

Instrument :

MSVOA_X

ClientSampleId :

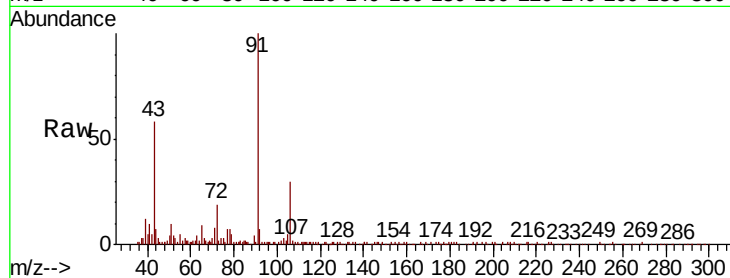
391120775.1-VOA

Tot Ion: 91 Resp: 32169

Ion Ratio Lower Upper

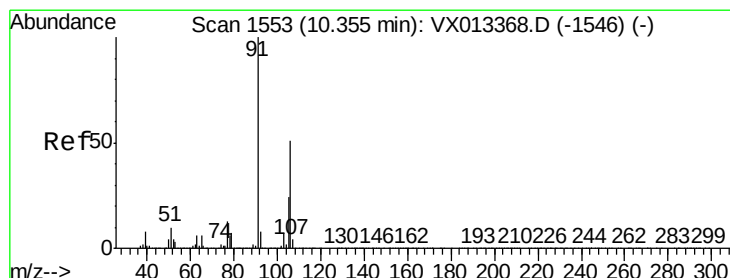
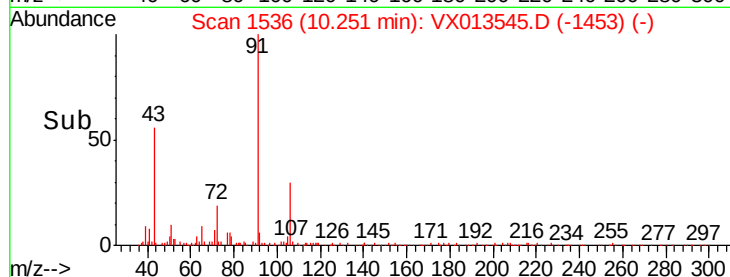
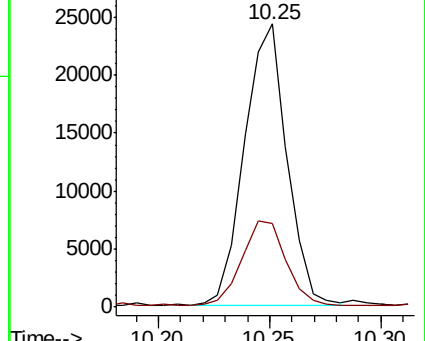
91 100

106 29.1 25.0 37.4



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 106.00 (105.70 to 106.70): V



#67

m/p-Xylenes

Concen: 7.002 ug/l

RT: 10.35 min Scan# 1553

Delta R.T. -0.00 min

Lab File: VX013545.D

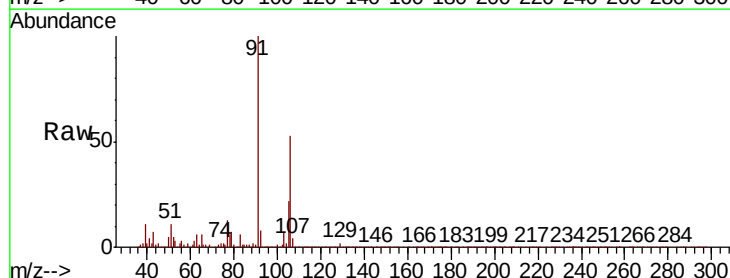
Acq: 22 Nov 2019 19:51

Tgt Ion: 106 Resp: 81305

Ion Ratio Lower Upper

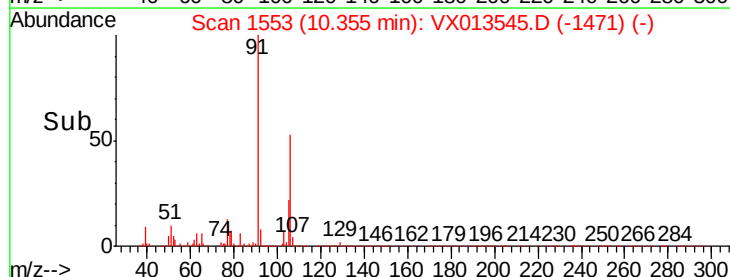
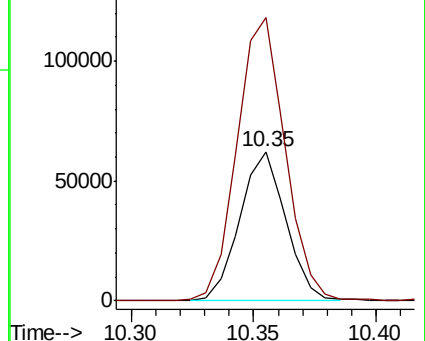
106 100

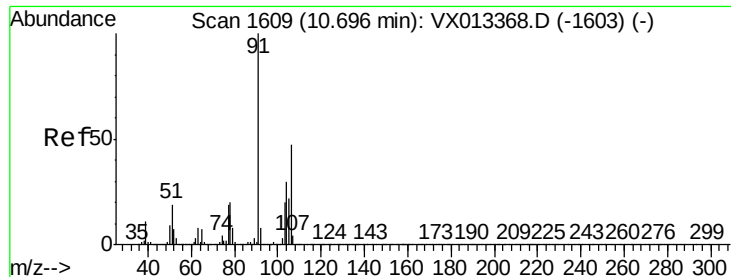
91 197.4 158.4 237.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0

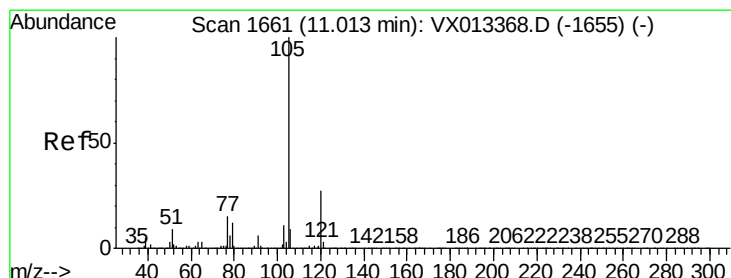
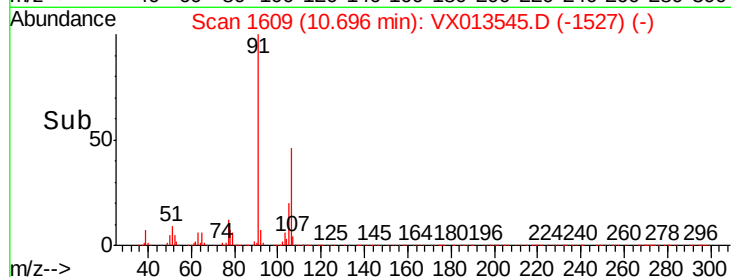
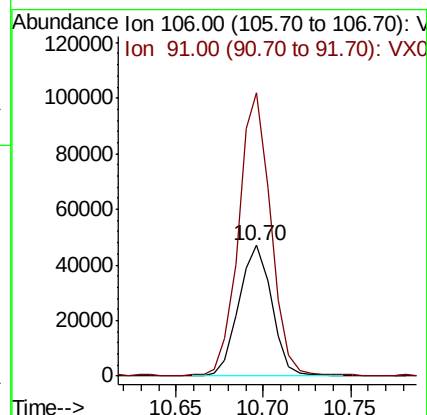
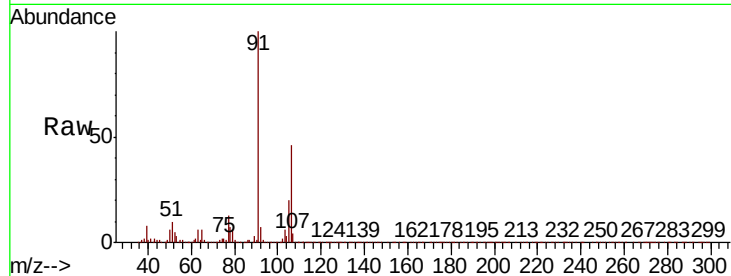




#68
o-Xylene
Concen: 5.498 ug/l
RT: 10.70 min Scan# 1609
Delta R.T. -0.00 min
Lab File: VX013545.D
Acq: 22 Nov 2019 19:51

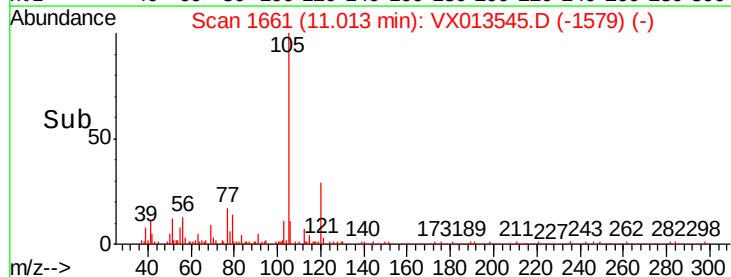
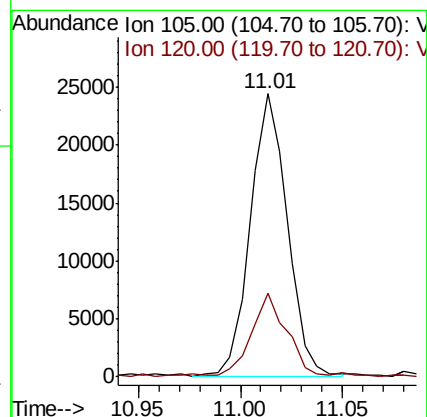
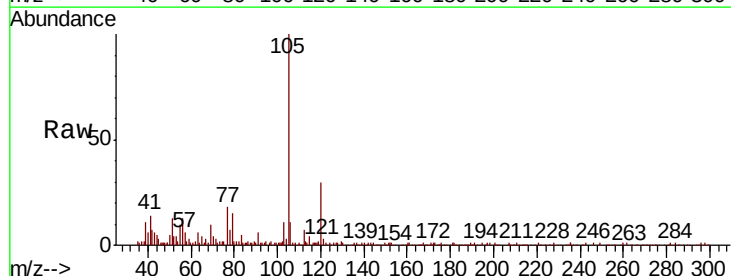
Instrument :
MSVOA_X
ClientSampleId :
391120775.1-VOA

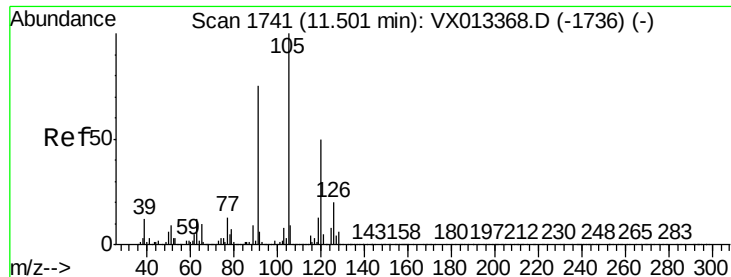
Tot Ion:106 Resp: 61610
Ion Ratio Lower Upper
106 100
91 207.3 106.4 319.2



#70
Isopropylbenzene
Concen: 1.036 ug/l
RT: 11.01 min Scan# 1661
Delta R.T. -0.00 min
Lab File: VX013545.D
Acq: 22 Nov 2019 19:51

Tgt Ion:105 Resp: 30605
Ion Ratio Lower Upper
105 100
120 27.3 18.8 34.8





#76

1,3,5-Trimethylbenzene

Concen: 0.832 ug/l

RT: 11.50 min Scan# 1741

Delta R.T. -0.00 min

Lab File: VX013545.D

Acq: 22 Nov 2019 19:51

Instrument :

MSVOA_X

ClientSampleId :

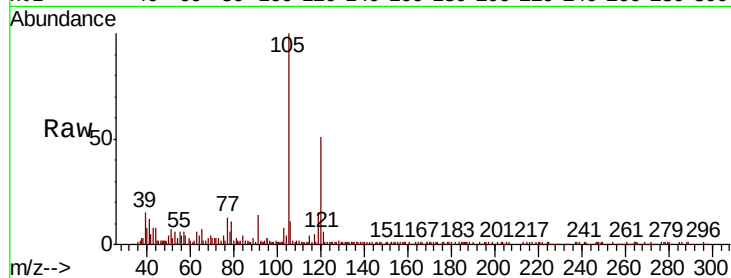
391120775.1-VOA

Tot Ion:105 Resp: 20643

Ion Ratio Lower Upper

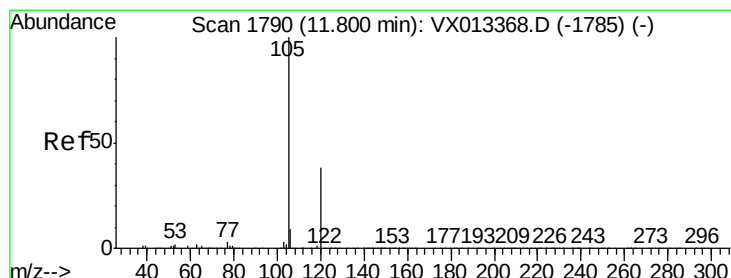
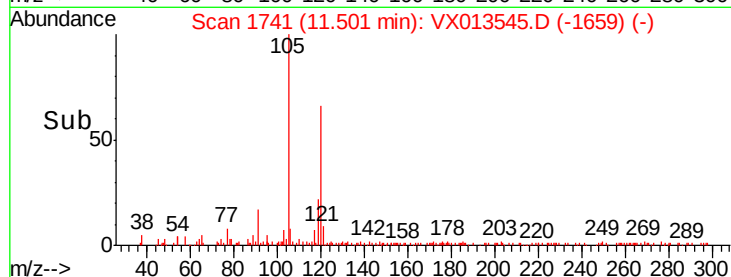
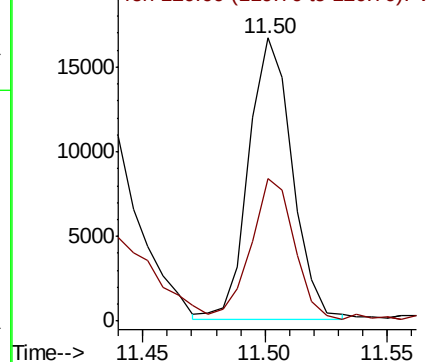
105 100

120 49.7 0.0 100.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#80

1,2,4-Trimethylbenzene

Concen: 2.261 ug/l

RT: 11.81 min Scan# 1791

Delta R.T. 0.01 min

Lab File: VX013545.D

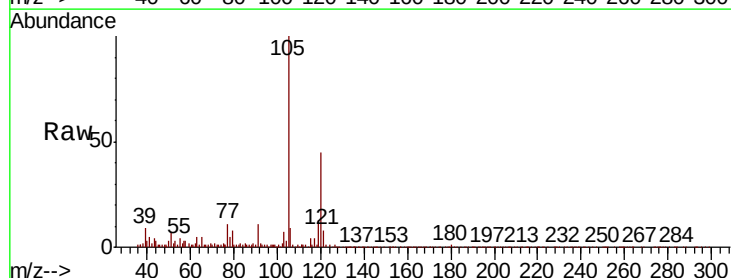
Acq: 22 Nov 2019 19:51

Tgt Ion:105 Resp: 55934

Ion Ratio Lower Upper

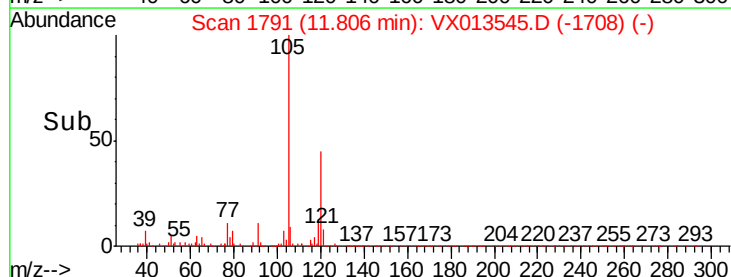
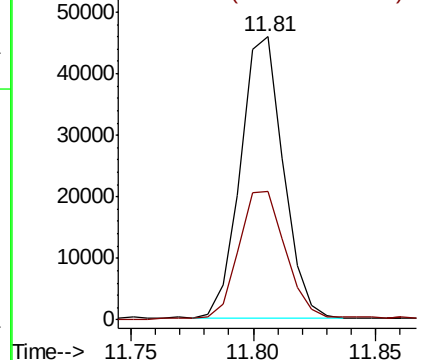
105 100

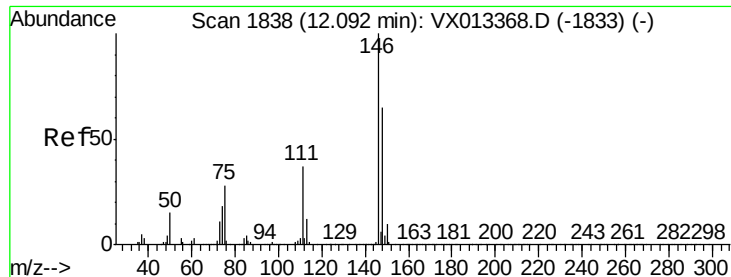
120 49.8 0.0 94.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

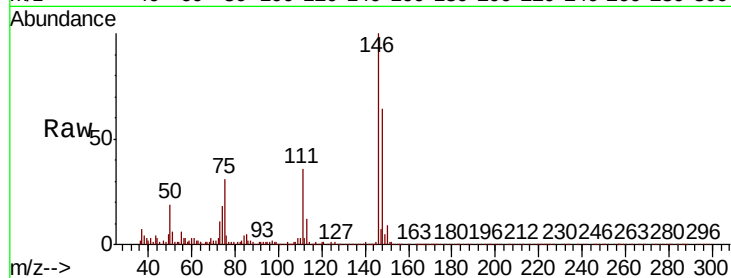




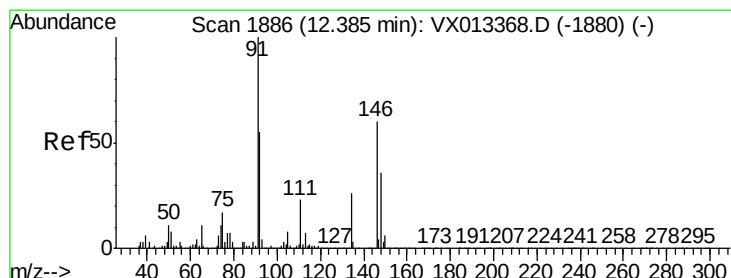
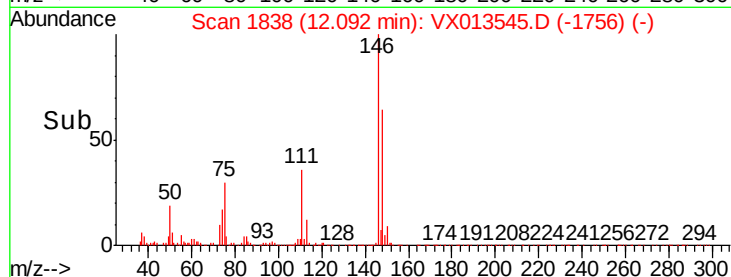
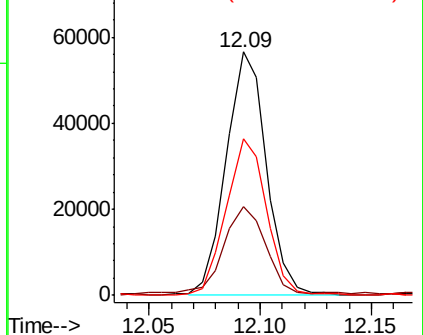
#84
1,4-Dichlorobenzene
Concen: 5.232 ug/l
RT: 12.09 min Scan# 1838
Delta R.T. -0.00 min
Lab File: VX013545.D
Acq: 22 Nov 2019 19:51

Instrument :
MSVOA_X
ClientSampleId :
391120775.1-VOA

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.4	18.6	55.6
148	65.2	32.5	97.4

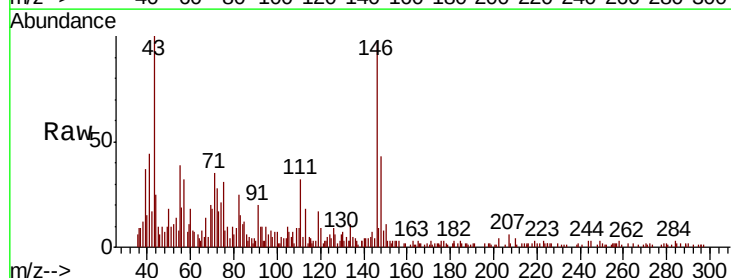


Abundance Ion 146.00 (145.70 to 146.70): V
Ion 111.00 (110.70 to 111.70): V
Ion 148.00 (147.70 to 148.70): V

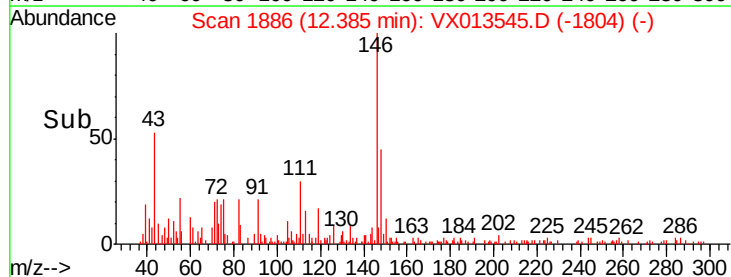
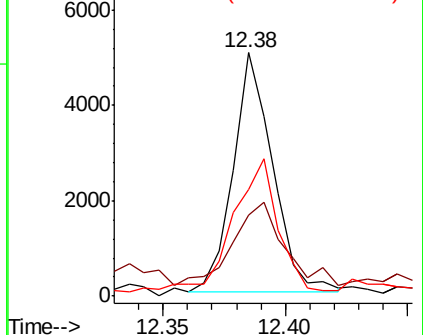


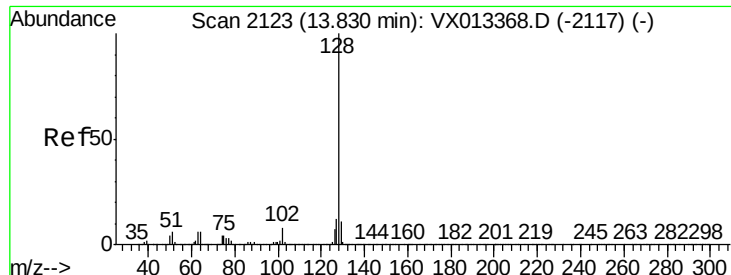
#87
1,2-Dichlorobenzene
Concen: 0.411 ug/l
RT: 12.38 min Scan# 1886
Delta R.T. -0.00 min
Lab File: VX013545.D
Acq: 22 Nov 2019 19:51

Tgt Ion	Ratio	Lower	Upper
146	100		
111	45.3	19.6	58.7
148	62.5	31.6	94.7



Abundance Ion 146.00 (145.70 to 146.70): V
Ion 111.00 (110.70 to 111.70): V
Ion 148.00 (147.70 to 148.70): V





#91
Naphthalene
Concen: 0.925 ug/l
RT: 13.83 min Scan# 2123
Delta R.T. -0.00 min
Lab File: VX013545.D
Acq: 22 Nov 2019 19:51

Instrument :
MSVOA_X
ClientSampleId :
391120775.1-VOA

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.2	10.2	15.2
129	11.8	8.8	13.2

