

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX110720\
 Data File : VX019334.D
 Acq On : 06 Nov 2020 12:21
 Operator : JC/MD
 Sample : L4624-10DL 10X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 32733DL

Quant Time: Nov 07 01:47:22 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X102720W.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 27 13:55:07 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	293343	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	514752	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	486932	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	254152	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.03	65	205397	54.29	ug/l	0.00
Spiked Amount			Recovery	=	108.58%	
35) Dibromofluoromethane	5.47	113	160391	49.61	ug/l	0.00
Spiked Amount			Recovery	=	99.22%	
50) Toluene-d8	8.70	98	626603	51.41	ug/l	0.00
Spiked Amount			Recovery	=	102.82%	
62) 4-Bromofluorobenzene	11.12	95	250078	54.18	ug/l	0.00
Spiked Amount			Recovery	=	108.36%	

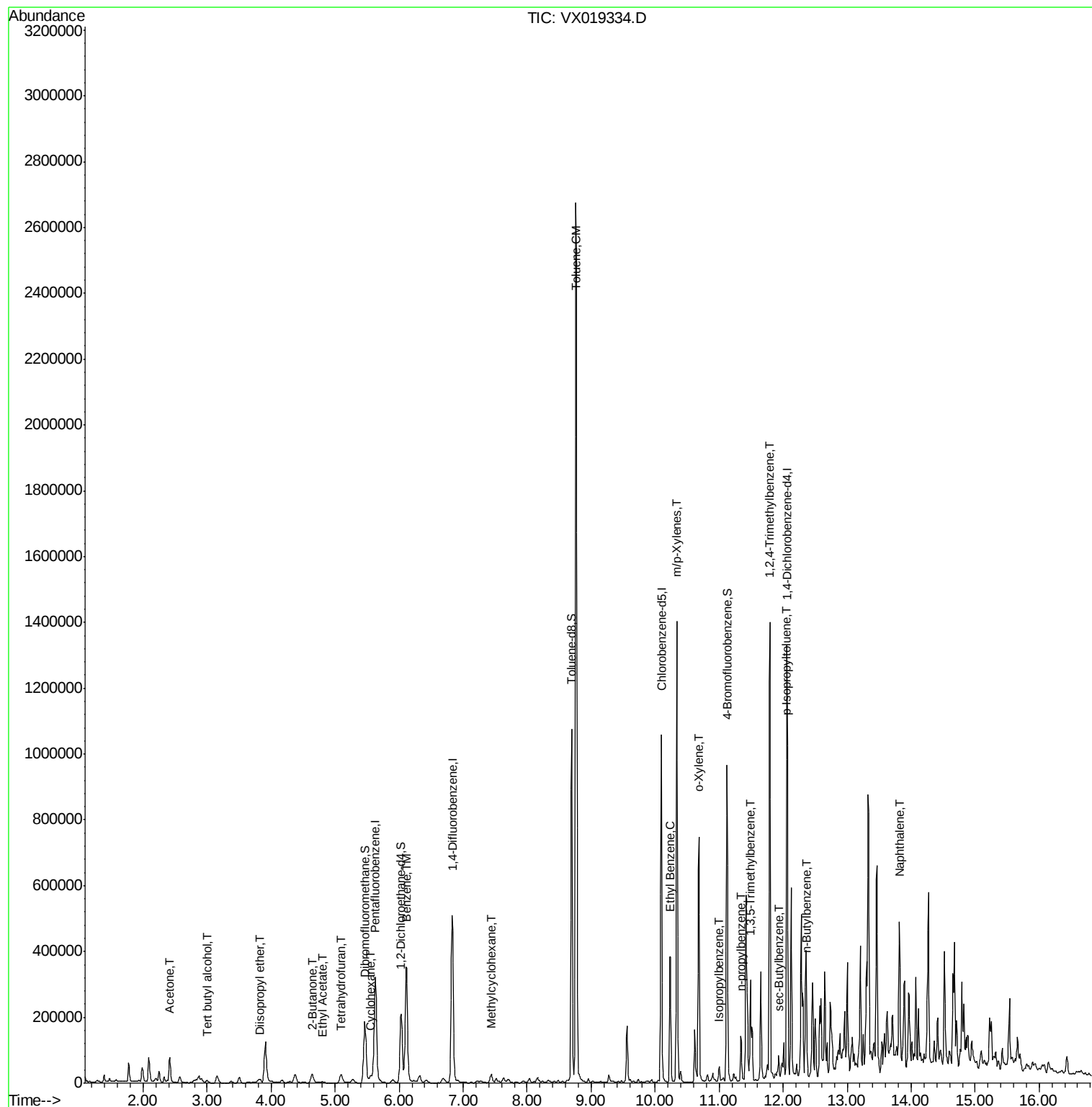
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	3.00	59	5586	7.476	ug/l #	72
16) Acetone	2.42	43	80843	61.945	ug/l	99
22) Diisopropyl ether	3.82	45	10704	1.247	ug/l #	85
25) 2-Butanone	4.64	43	25673	12.482	ug/l	98
29) Tetrahydrofuran	5.09	42	21782	16.805	ug/l	94
31) Cyclohexane	5.55	56	14594	3.052	ug/l	97
37) Ethyl Acetate	4.80	43	5013	1.136	ug/l	97
39) Methylcyclohexane	7.44	83	12072	2.124	ug/l	94
40) Benzene	6.12	78	438127	32.509	ug/l	100
52) Toluene	8.76	92	1023895	117.958	ug/l	100
67) Ethyl Benzene	10.24	91	230595	13.003	ug/l	99
68) m/p-Xylenes	10.34	106	325302	48.873	ug/l	97
69) o-Xylene	10.68	106	160131	25.364	ug/l	100
73) Isopropylbenzene	11.00	105	20882	1.161	ug/l	99
78) n-propylbenzene	11.34	91	82604	4.022	ug/l	97
80) 1,3,5-Trimethylbenzene	11.49	105	132411	8.712	ug/l	100
84) 1,2,4-Trimethylbenzene	11.79	105	591418	38.546	ug/l	99
85) sec-Butylbenzene	11.93	105	26030	1.491	ug/l	89
86) p-Isopropyltoluene	12.05	119	18385	1.141	ug/l	97
89) n-Butylbenzene	12.37	91	64268	4.244	ug/l #	44
95) Naphthalene	13.82	128	258747	13.699	ug/l	99

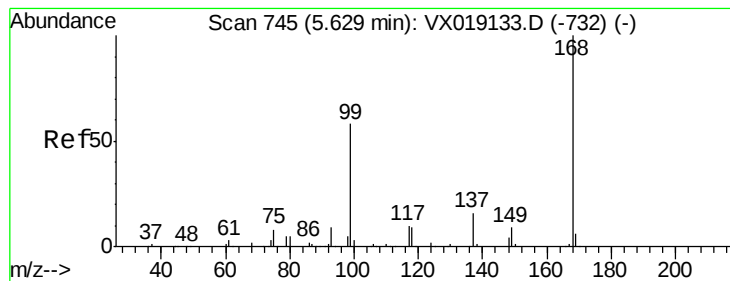
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.00 min

Lab File: VX019334.D

Acq: 06 Nov 2020 12:21

Instrument :

MSVOA_X

ClientSampleId :

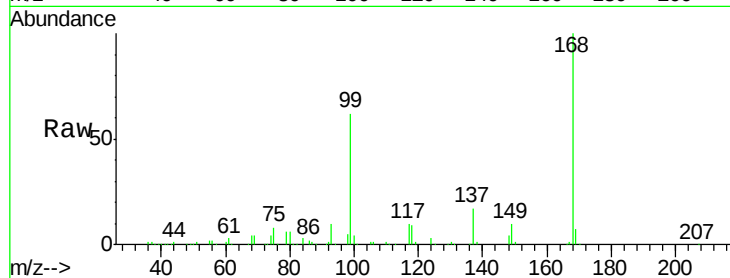
32733DL

Tot Ion:168 Resp: 293343

Ion Ratio Lower Upper

168 100

99 61.9 46.6 69.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

120000

100000

80000

60000

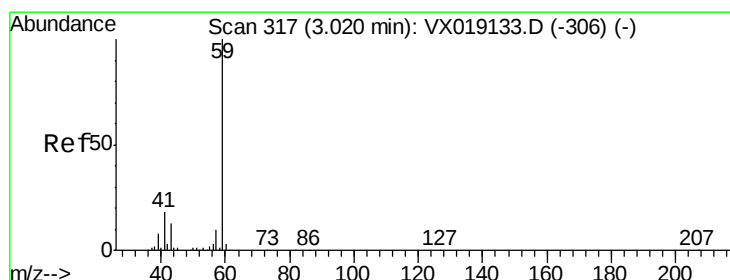
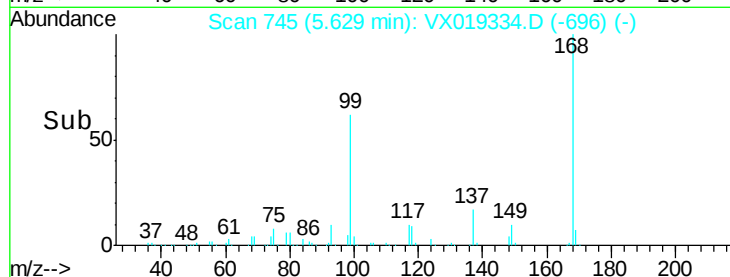
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#11

Tert butyl alcohol

Concen: 7.476 ug/l

RT: 3.00 min Scan# 313

Delta R.T. -0.02 min

Lab File: VX019334.D

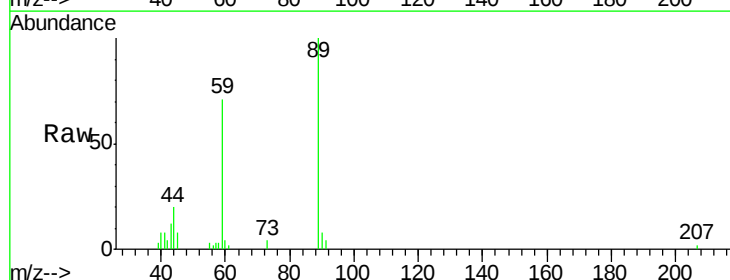
Acq: 06 Nov 2020 12:21

Tgt Ion: 59 Resp: 5586

Ion Ratio Lower Upper

59 100

57 0.0 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

3.00

2500

2000

1500

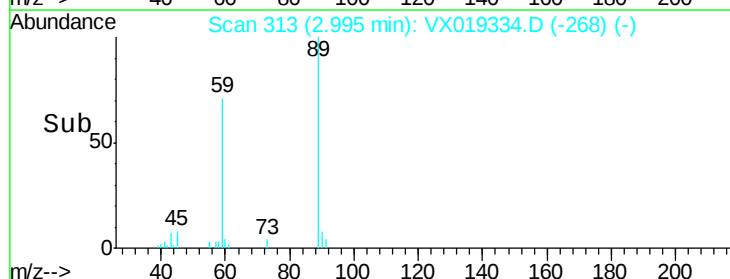
1000

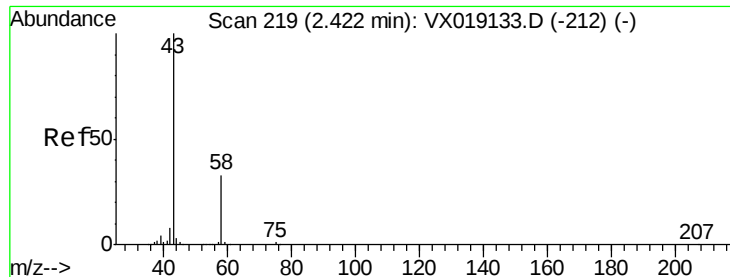
500

0

Time-->

2.90 2.95 3.00 3.05





#16

Acetone

Concen: 61.945 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.01 min

Lab File: VX019334.D

Acq: 06 Nov 2020 12:21

Instrument :

MSVOA_X

ClientSampled :

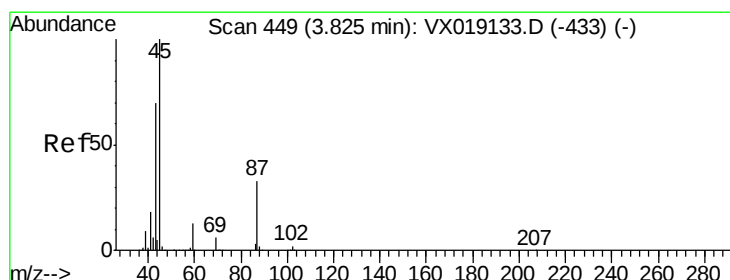
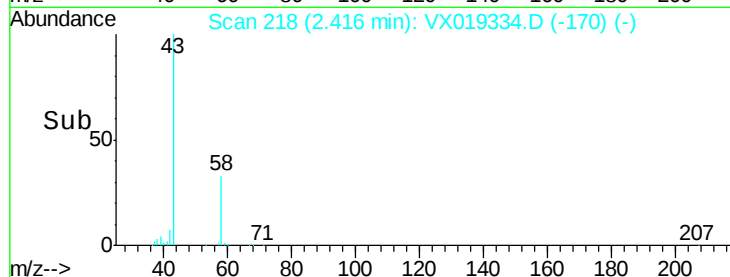
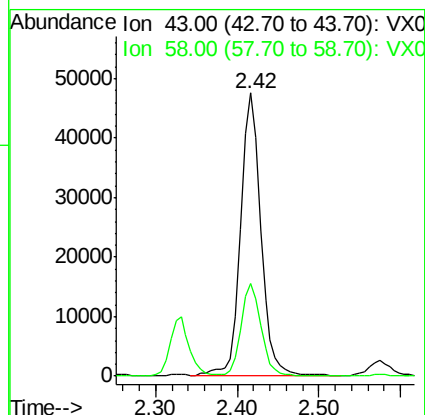
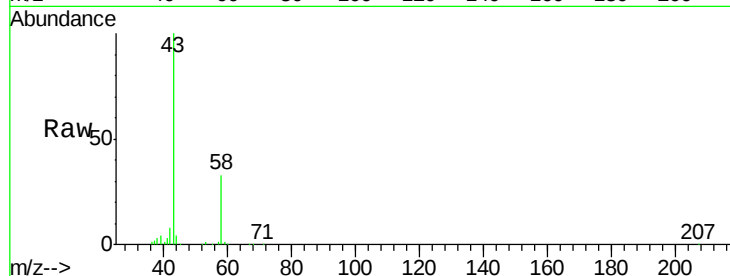
32733DL

Tot Ion: 43 Resp: 80843

Ion Ratio Lower Upper

43 100

58 32.4 26.3 39.5



#22

Diisopropyl ether

Concen: 1.247 ug/l

RT: 3.82 min Scan# 449

Delta R.T. -0.00 min

Lab File: VX019334.D

Acq: 06 Nov 2020 12:21

Tgt Ion: 45 Resp: 10704

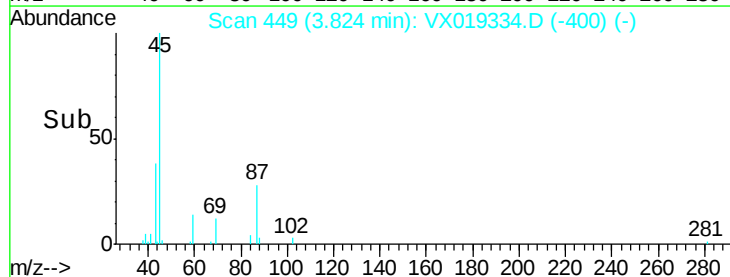
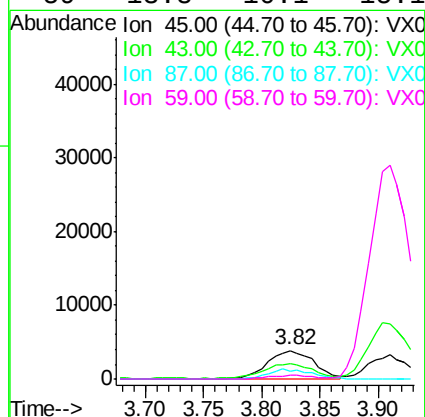
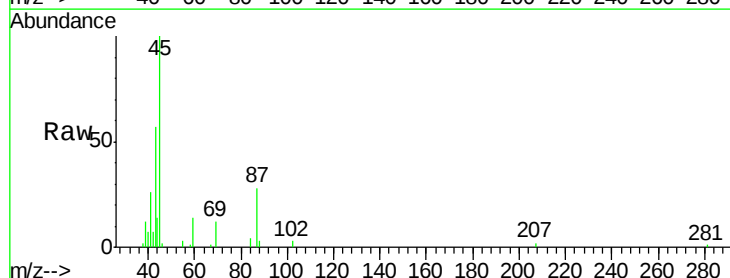
Ion Ratio Lower Upper

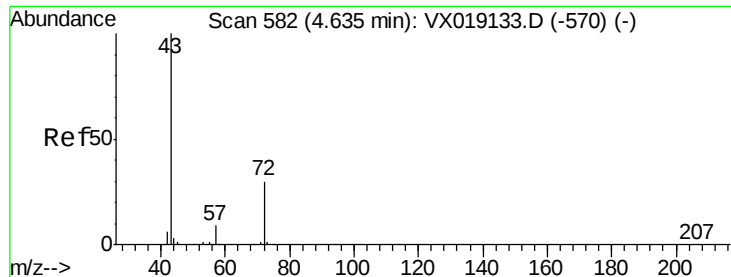
45 100

43 54.5 56.2 84.4#

87 27.6 26.2 39.2

59 13.8 10.1 15.1





#25

2-Butanone

Concen: 12.482 ug/l

RT: 4.64 min Scan# 582

Delta R.T. -0.00 min

Lab File: VX019334.D

Acq: 06 Nov 2020 12:21

Instrument :

MSVOA_X

ClientSampleId :

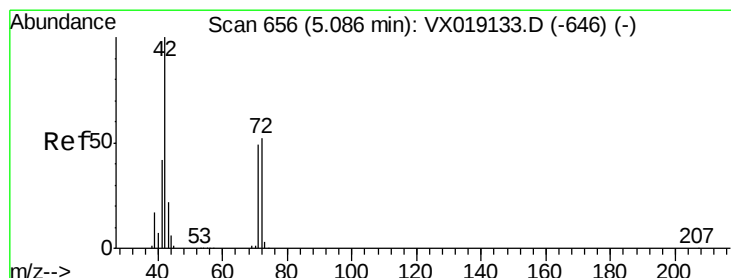
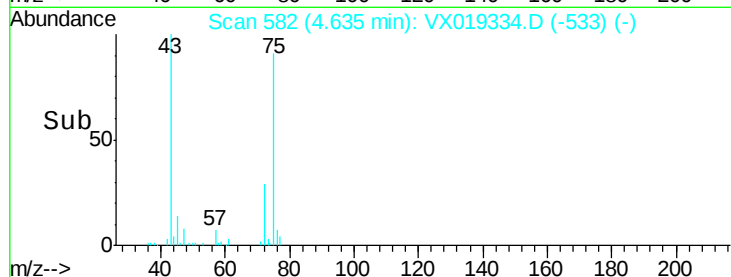
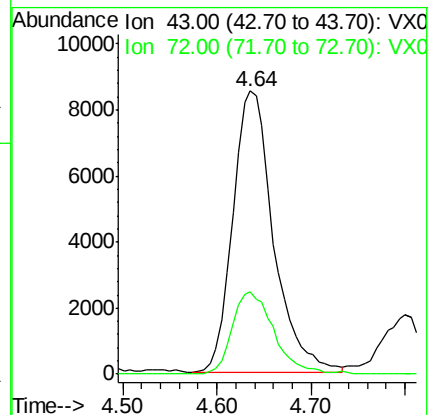
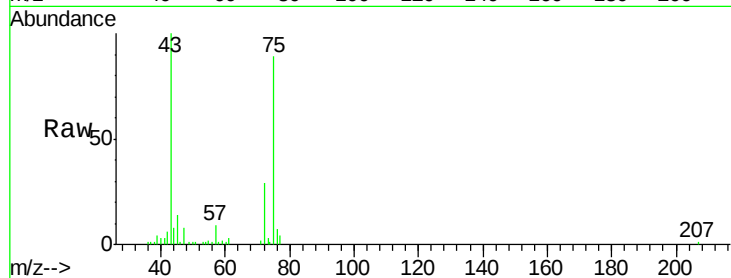
32733DL

Tot Ion: 43 Resp: 25673

Ion Ratio Lower Upper

43 100

72 29.5 24.6 36.8



#29

Tetrahydrofuran

Concen: 16.805 ug/l

RT: 5.09 min Scan# 657

Delta R.T. 0.01 min

Lab File: VX019334.D

Acq: 06 Nov 2020 12:21

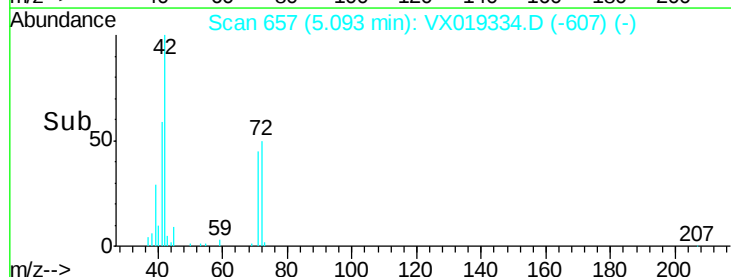
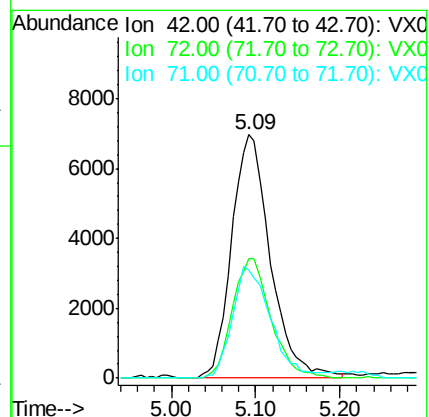
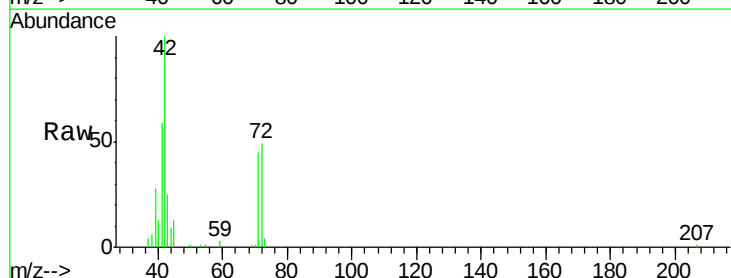
Tgt Ion: 42 Resp: 21782

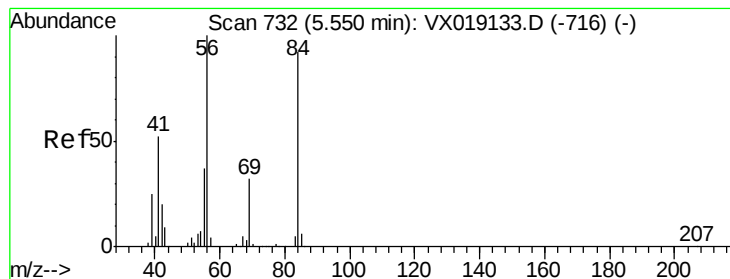
Ion Ratio Lower Upper

42 100

72 48.5 42.6 63.8

71 45.6 39.7 59.5





#31

Cyclohexane

Concen: 3.052 ug/l

RT: 5.55 min Scan# 732

Delta R.T. -0.00 min

Lab File: VX019334.D

Acq: 06 Nov 2020 12:21

Instrument :

MSVOA_X

ClientSampleId :

32733DL

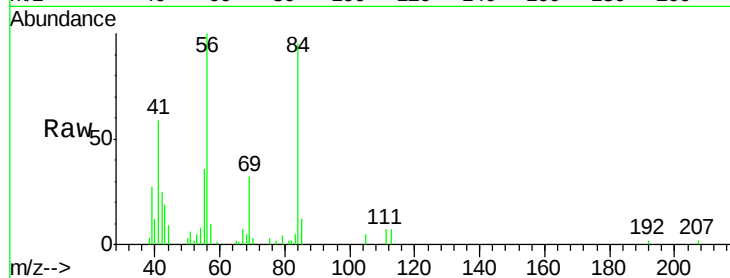
Tot Ion: 56 Resp: 14594

Ion Ratio Lower Upper

56 100

69 31.0 25.9 38.9

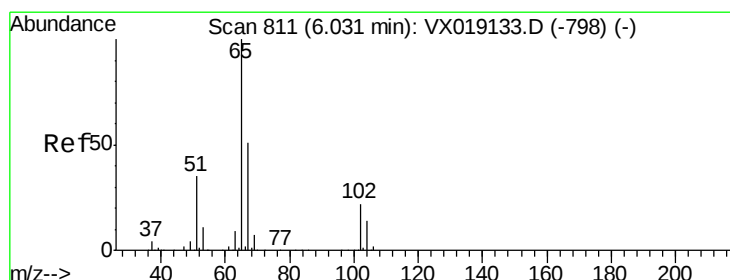
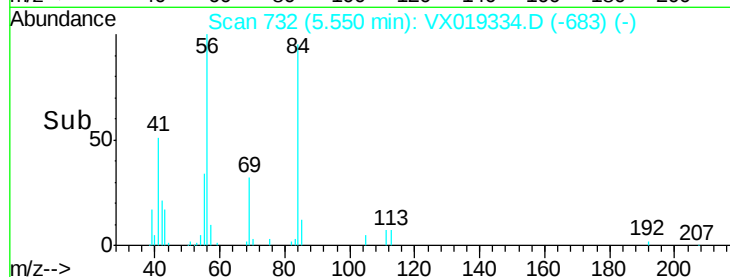
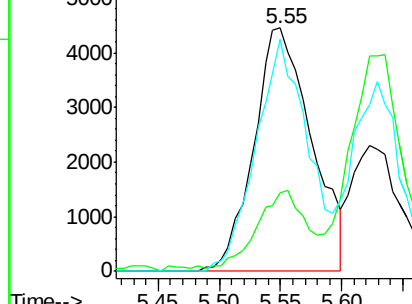
84 95.3 73.4 110.2



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 54.294 ug/l

RT: 6.03 min Scan# 811

Delta R.T. -0.00 min

Lab File: VX019334.D

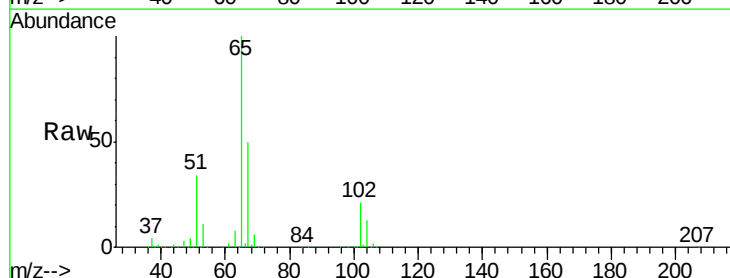
Acq: 06 Nov 2020 12:21

Tgt Ion: 65 Resp: 205397

Ion Ratio Lower Upper

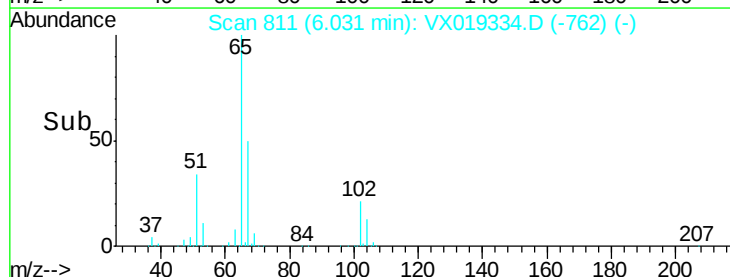
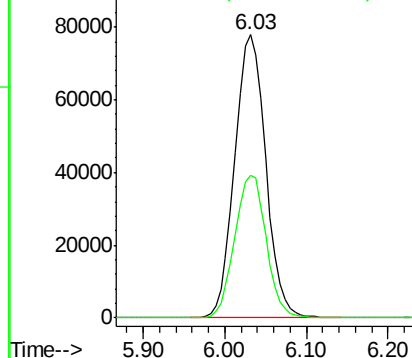
65 100

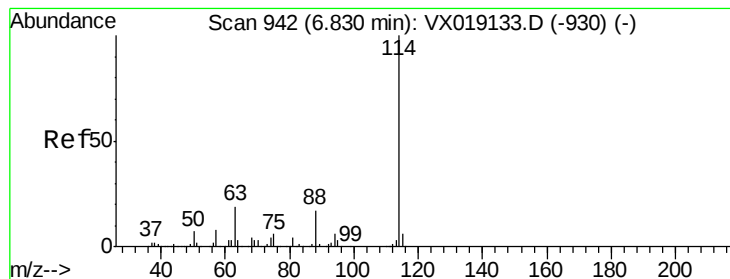
67 51.0 0.0 103.0



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.83 min Scan# 942

Delta R.T. -0.00 min

Lab File: VX019334.D

Acq: 06 Nov 2020 12:21

Instrument :

MSVOA_X

ClientSampleId :

32733DL

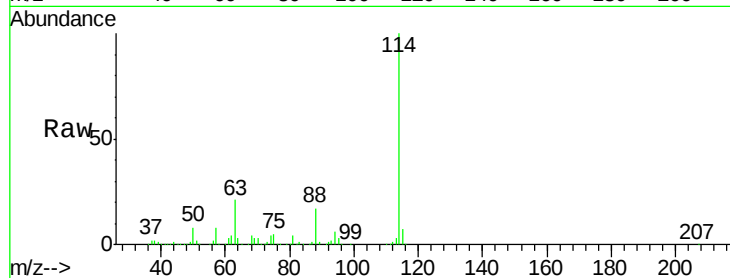
Tot Ion:114 Resp: 514752

Ion Ratio Lower Upper

114 100

63 20.7 0.0 38.8

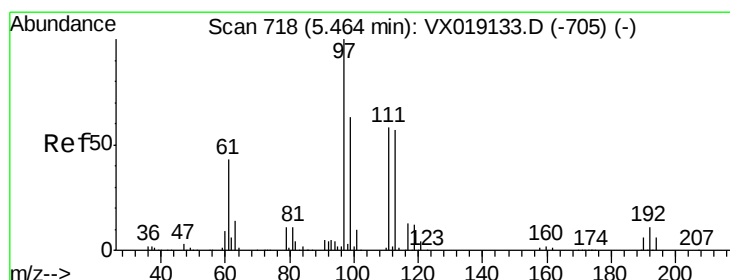
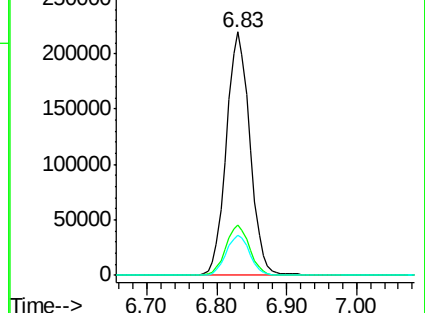
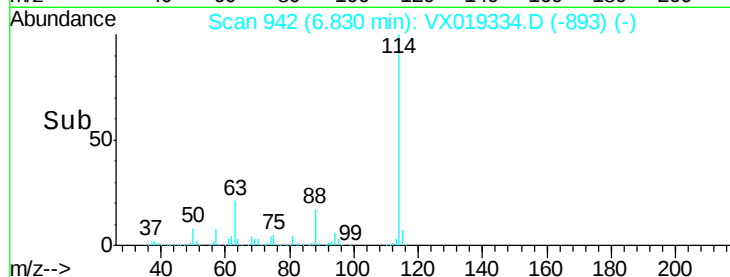
88 16.5 0.0 34.2



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 49.605 ug/l

RT: 5.47 min Scan# 719

Delta R.T. 0.01 min

Lab File: VX019334.D

Acq: 06 Nov 2020 12:21

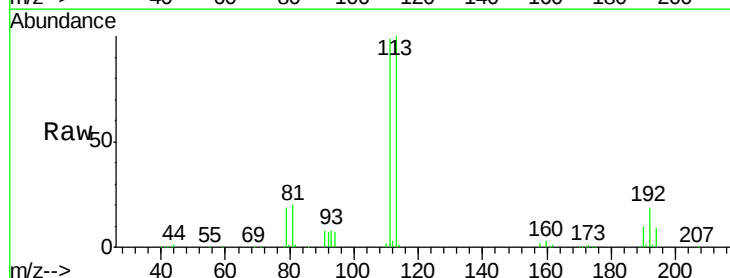
Tgt Ion:113 Resp: 160391

Ion Ratio Lower Upper

113 100

111 103.2 82.3 123.5

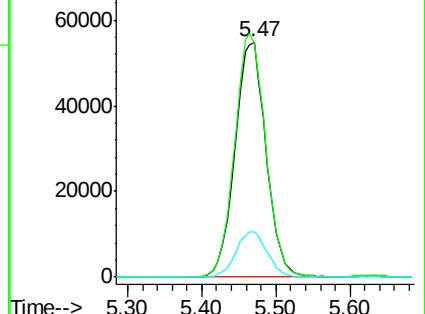
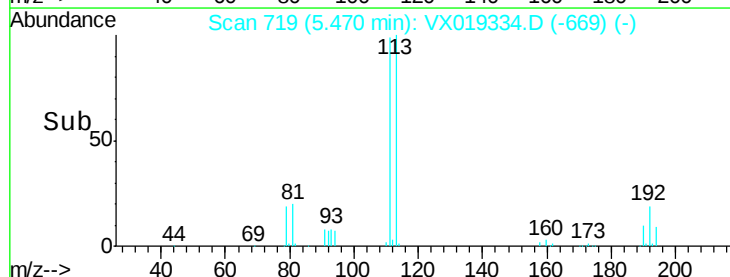
192 19.5 16.2 24.2

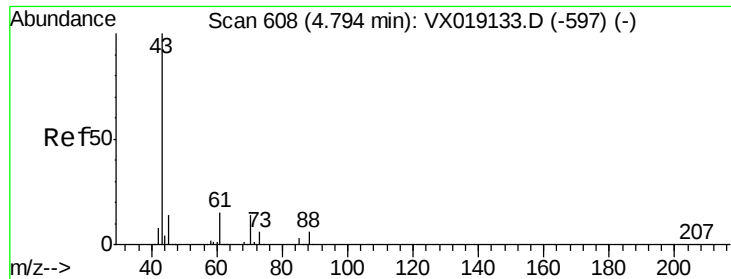


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

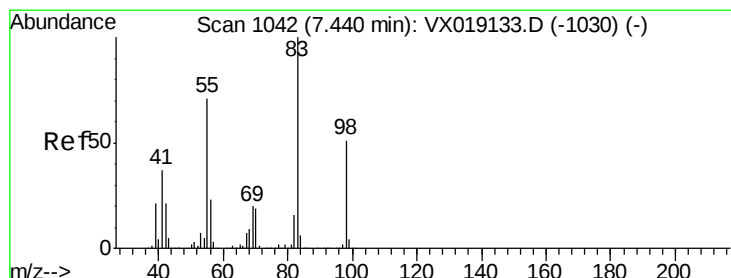
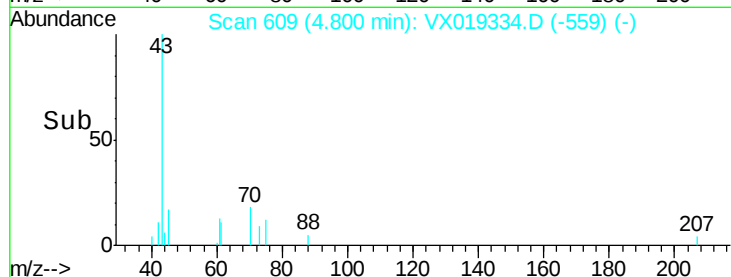
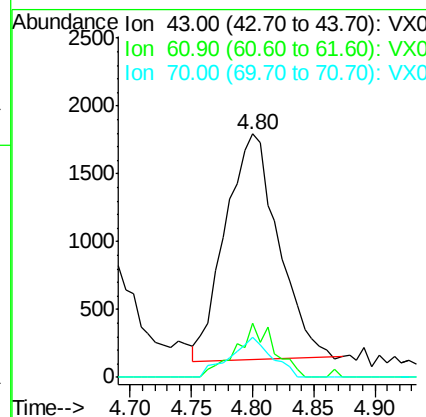
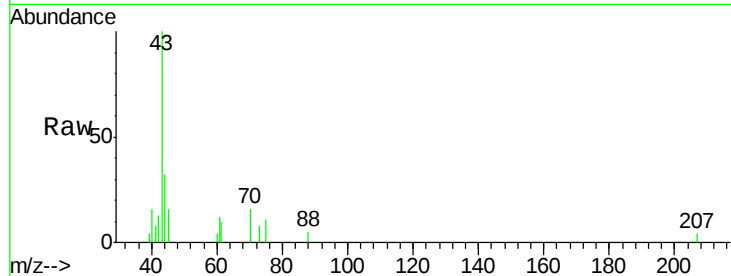




#37
Ethyl Acetate
Concen: 1.136 ug/l
RT: 4.80 min Scan# 609
Delta R.T. 0.01 min
Lab File: VX019334.D
Acq: 06 Nov 2020 12:21

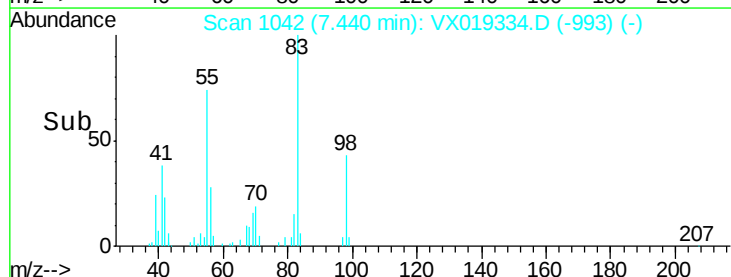
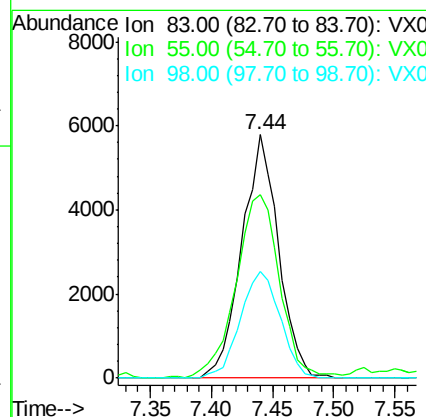
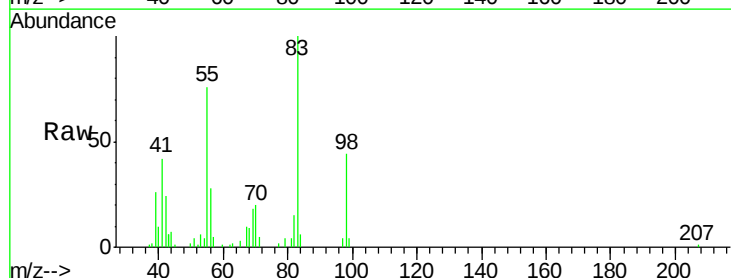
Instrument :
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32733DL

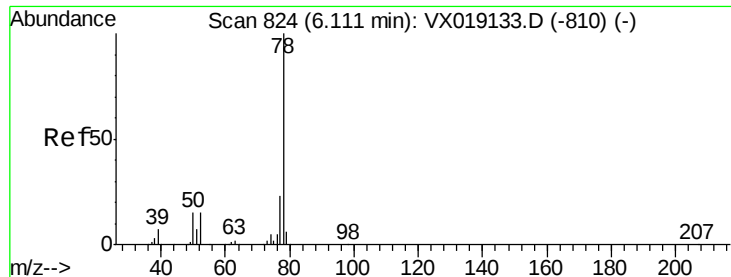
Tot Ion	Ratio	Lower	Upper
43	100		
61	17.6	12.5	18.7
70	13.9	10.5	15.7



#39
Methylcyclohexane
Concen: 2.124 ug/l
RT: 7.44 min Scan# 1042
Delta R.T. -0.00 min
Lab File: VX019334.D
Acq: 06 Nov 2020 12:21

Tgt Ion	Ratio	Lower	Upper
83	100		
55	74.3	57.0	85.6
98	43.9	40.5	60.7





#40

Benzene

Concen: 32.509 ug/l

RT: 6.12 min Scan# 825

Delta R.T. 0.01 min

Lab File: VX019334.D

Acq: 06 Nov 2020 12:21

Instrument :

MSVOA_X

ClientSampleId :

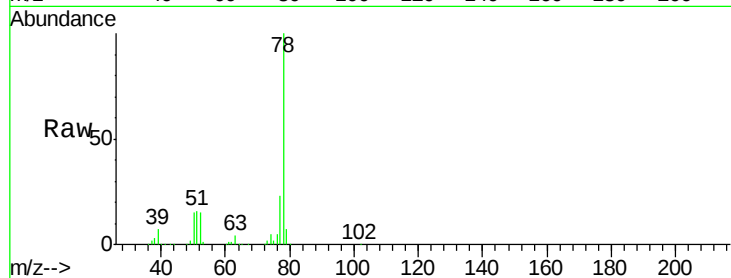
32733DL

Tot Ion: 78 Resp: 438127

Ion Ratio Lower Upper

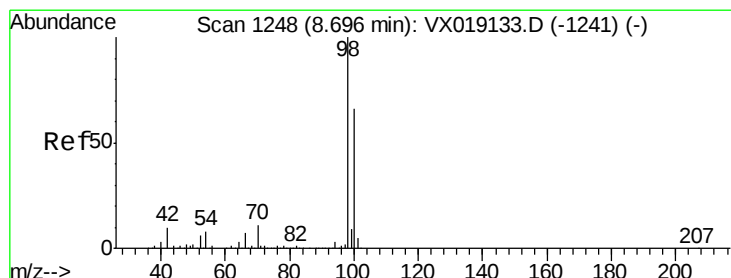
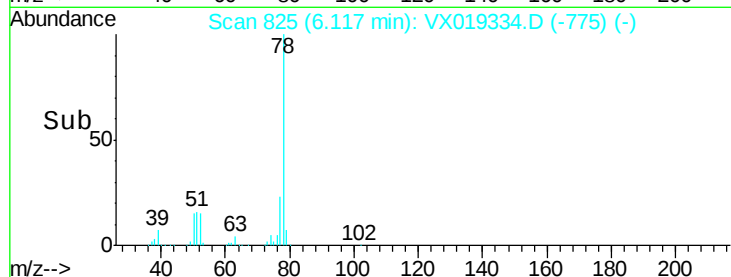
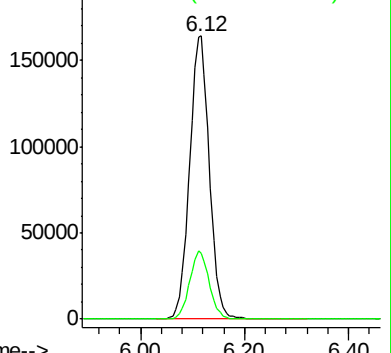
78 100

77 23.3 18.7 28.1



Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0



#50

Toluene-d8

Concen: 51.409 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX019334.D

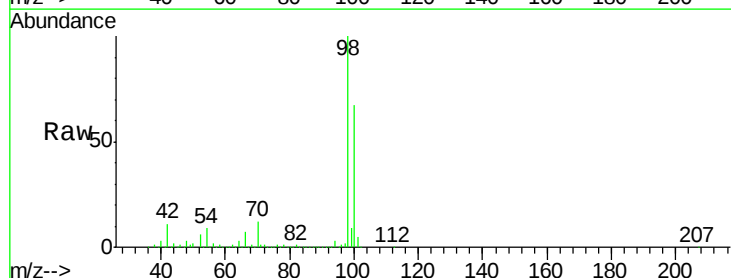
Acq: 06 Nov 2020 12:21

Tgt Ion: 98 Resp: 626603

Ion Ratio Lower Upper

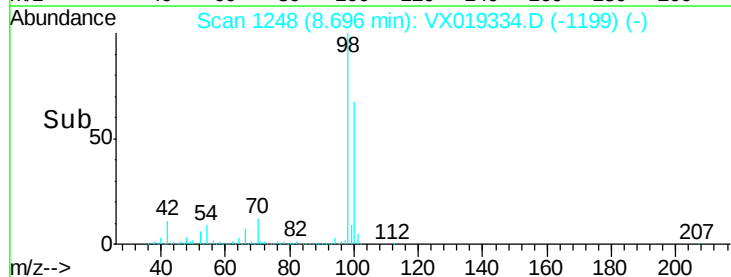
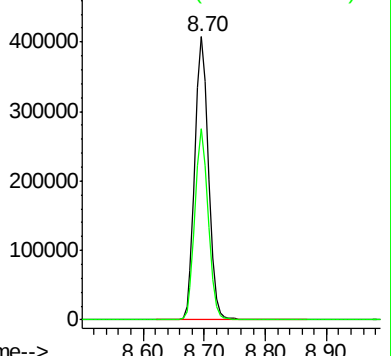
98 100

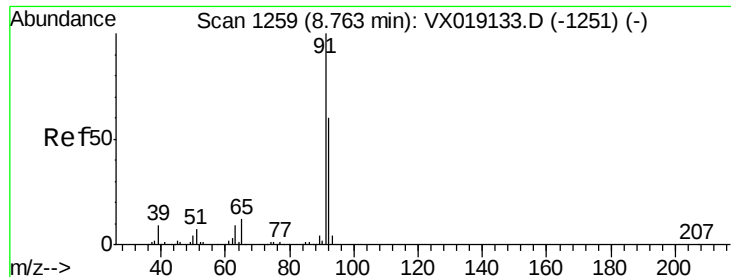
100 66.1 53.0 79.6



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0





#52

Toluene

Concen: 117.958 ug/l

RT: 8.76 min Scan# 1259

Delta R.T. -0.00 min

Lab File: VX019334.D

Acq: 06 Nov 2020 12:21

Instrument :

MSVOA_X

ClientSampleId :

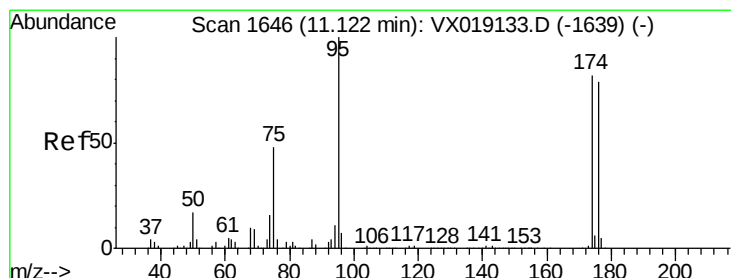
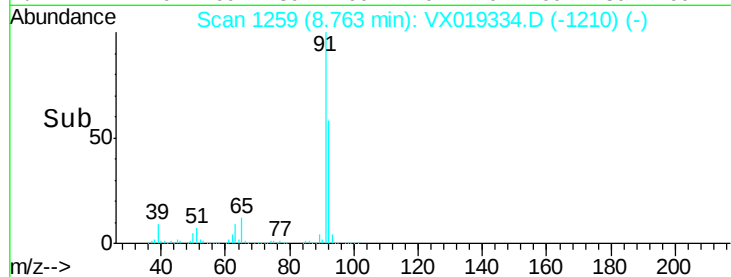
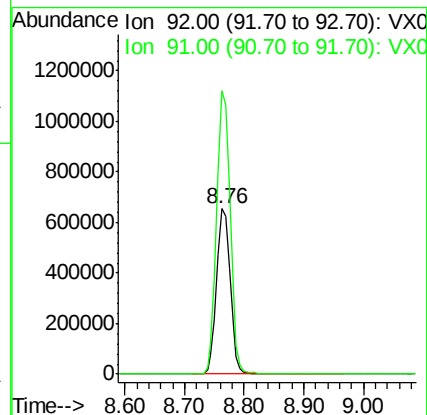
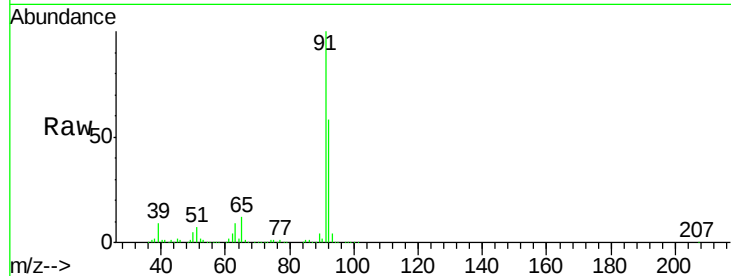
32733DL

Tot Ion: 92 Resp: 1023895

Ion Ratio Lower Upper

92 100

91 171.1 136.3 204.5



#62

4-Bromofluorobenzene

Concen: 54.178 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX019334.D

Acq: 06 Nov 2020 12:21

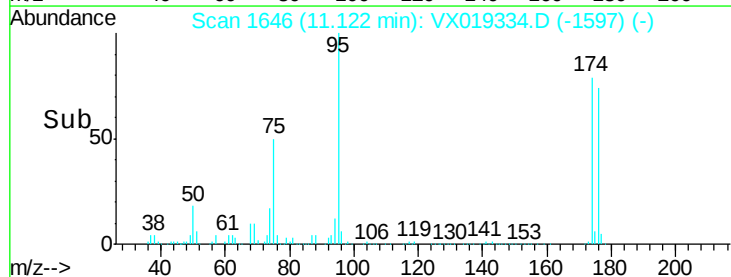
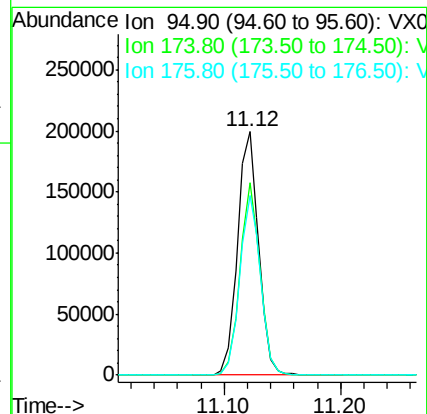
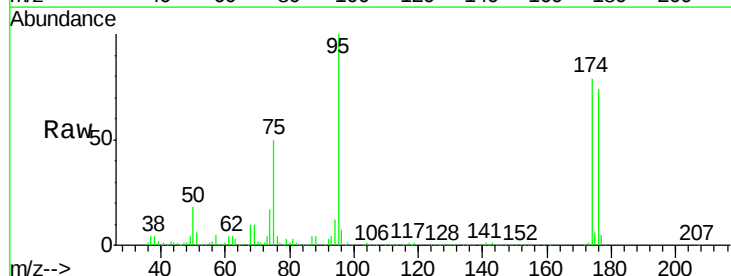
Tgt Ion: 95 Resp: 250078

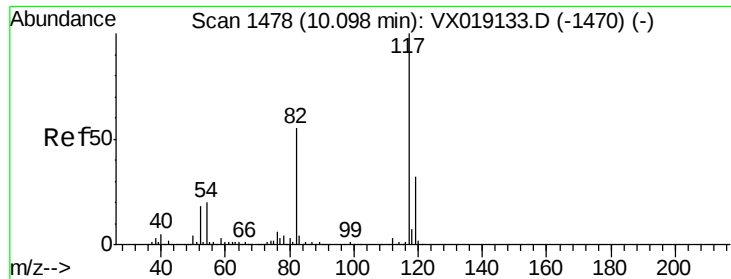
Ion Ratio Lower Upper

95 100

174 75.8 0.0 156.0

176 72.9 0.0 149.8

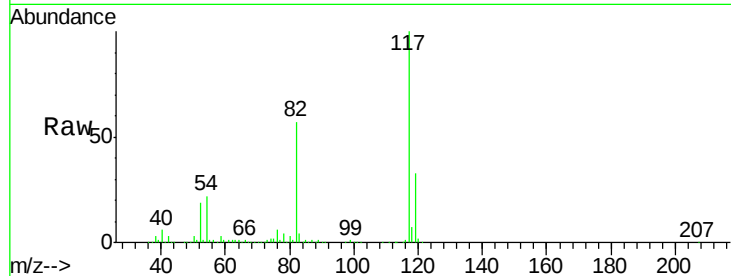




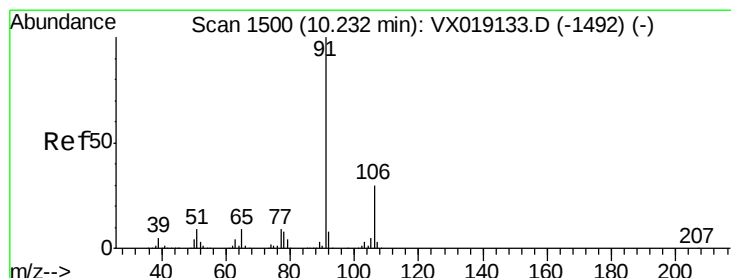
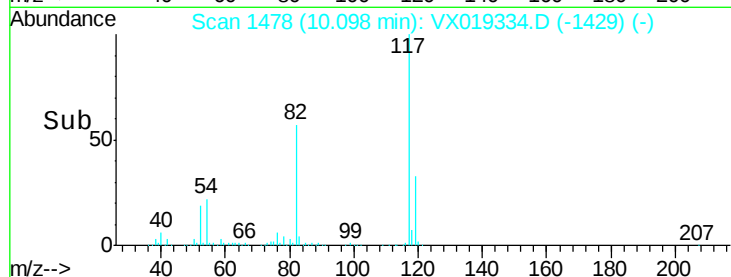
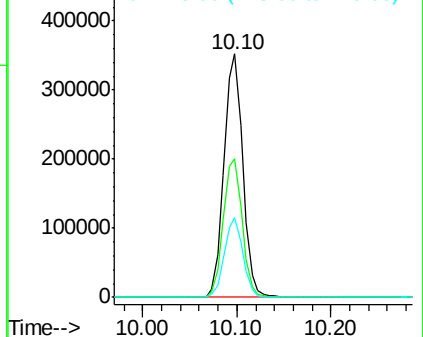
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX019334.D
Acq: 06 Nov 2020 12:21

Instrument :
MSVOA_X
ClientSampleId :
32733DL

Tot Ion:117 Resp: 486932
Ion Ratio Lower Upper
117 100
82 57.0 43.6 65.4
119 32.6 25.5 38.3

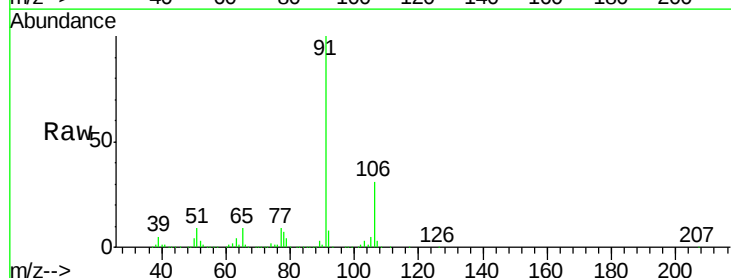


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

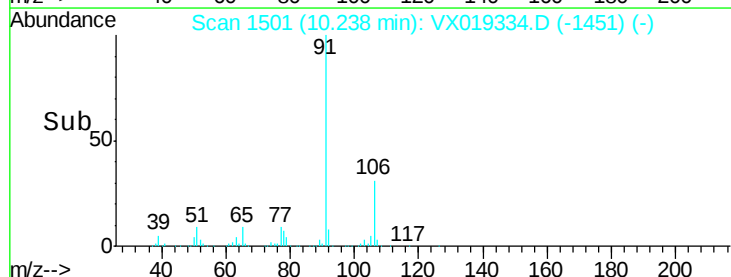
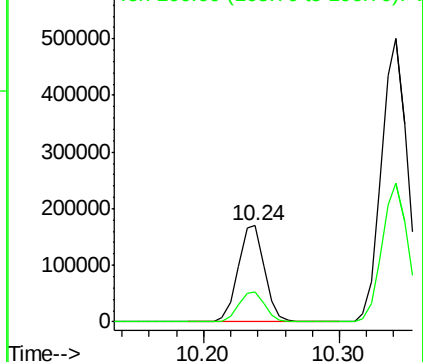


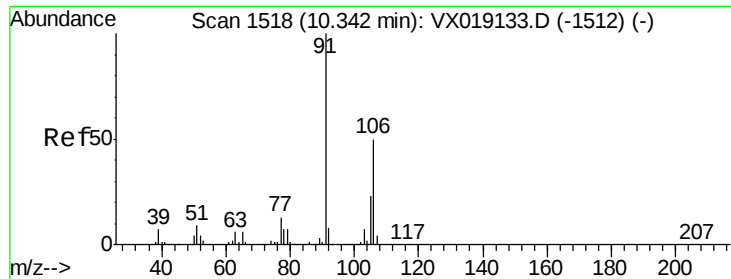
#67
Ethyl Benzene
Concen: 13.003 ug/l
RT: 10.24 min Scan# 1501
Delta R.T. 0.01 min
Lab File: VX019334.D
Acq: 06 Nov 2020 12:21

Tgt Ion: 91 Resp: 230595
Ion Ratio Lower Upper
91 100
106 31.2 24.3 36.5



Abundance Ion 91.00 (90.70 to 91.70): VX0
Ion 106.00 (105.70 to 106.70): V

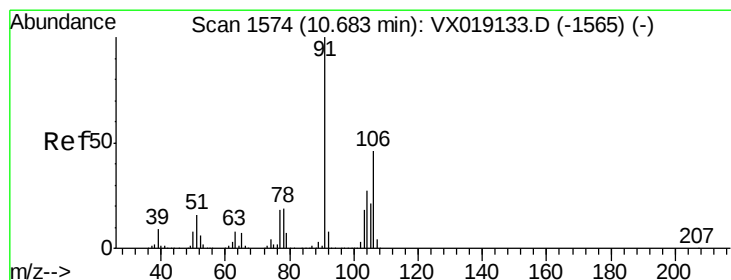
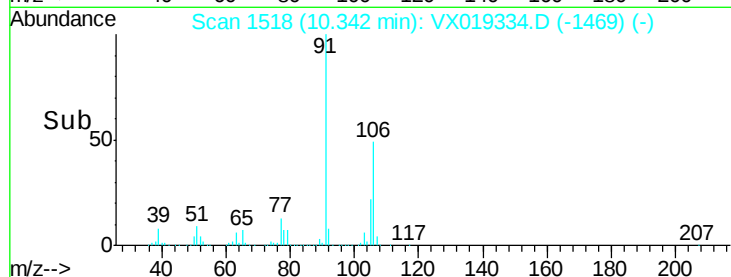
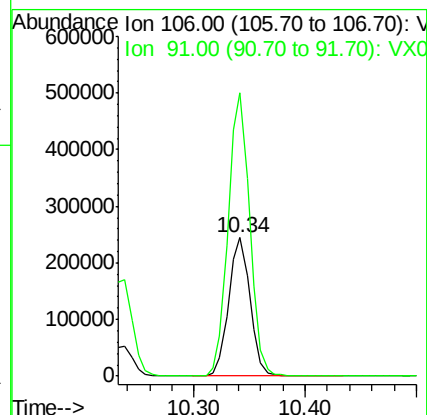
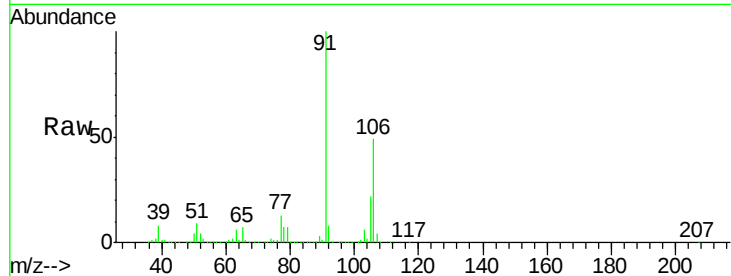




#68
m/p-Xylenes
Concen: 48.873 ug/l
RT: 10.34 min Scan# 1518
Delta R.T. -0.00 min
Lab File: VX019334.D
Acq: 06 Nov 2020 12:21

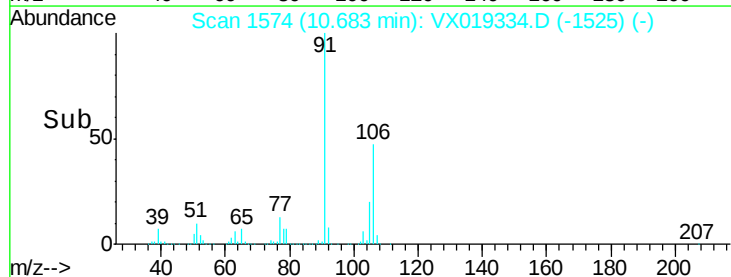
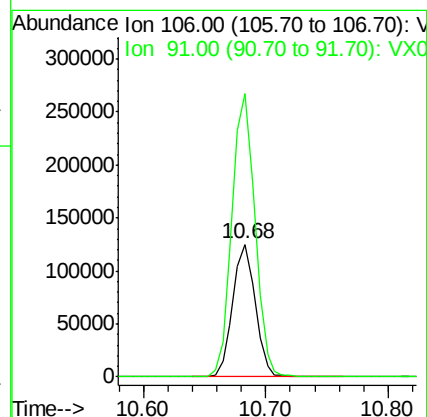
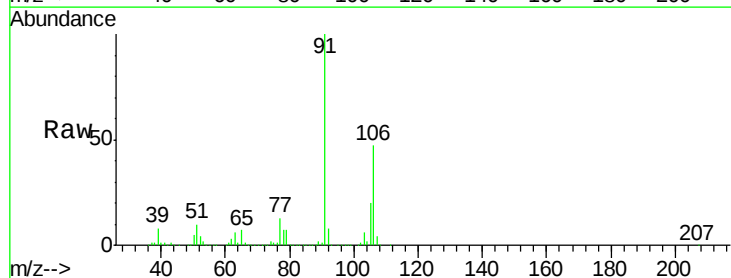
Instrument :
MSVOA_X
ClientSampled :
32733DL

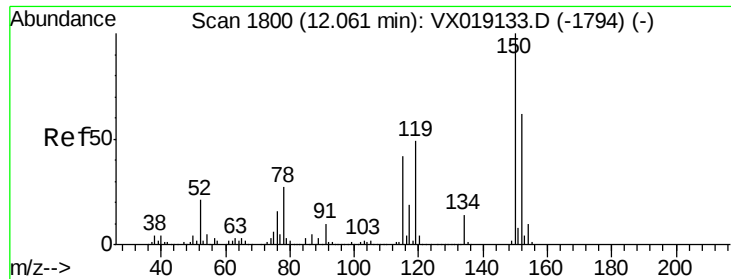
Tot Ion:106 Resp: 325302
Ion Ratio Lower Upper
106 100
91 205.8 161.0 241.4



#69
o-Xylene
Concen: 25.364 ug/l
RT: 10.68 min Scan# 1574
Delta R.T. -0.00 min
Lab File: VX019334.D
Acq: 06 Nov 2020 12:21

Tgt Ion:106 Resp: 160131
Ion Ratio Lower Upper
106 100
91 216.6 108.3 324.8





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX019334.D

Acq: 06 Nov 2020 12:21

Instrument :

MSVOA_X

ClientSampleId :

32733DL

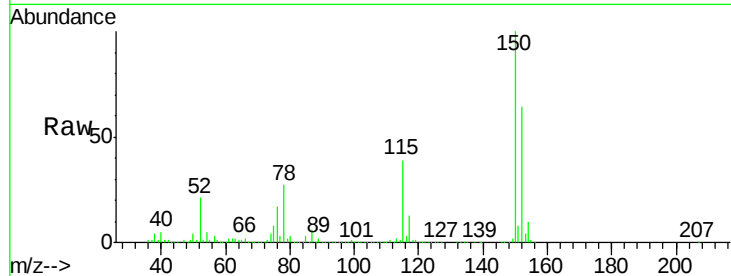
Tot Ion:152 Resp: 254152

Ion Ratio Lower Upper

152 100

115 61.6 41.9 125.7

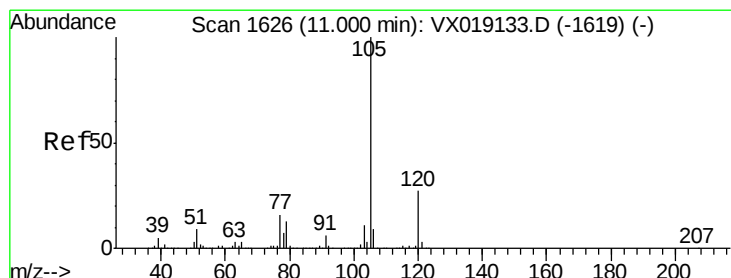
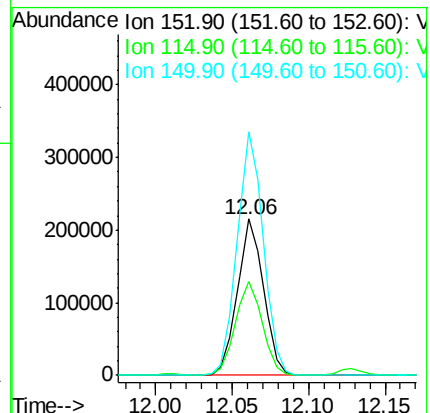
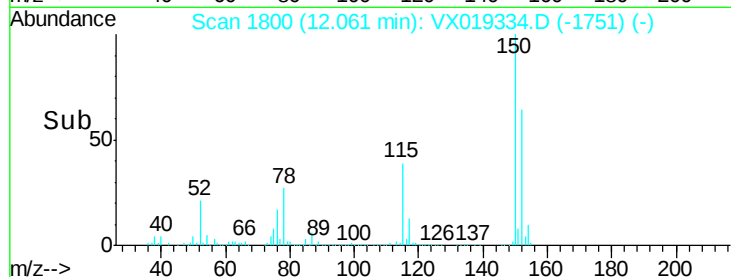
150 156.6 0.0 347.8



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#73

Isopropylbenzene

Concen: 1.161 ug/l

RT: 11.00 min Scan# 1626

Delta R.T. -0.00 min

Lab File: VX019334.D

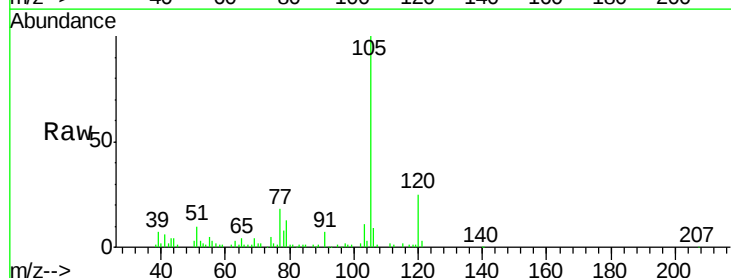
Acq: 06 Nov 2020 12:21

Tgt Ion:105 Resp: 20882

Ion Ratio Lower Upper

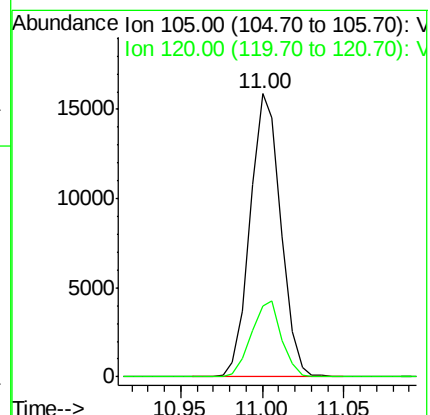
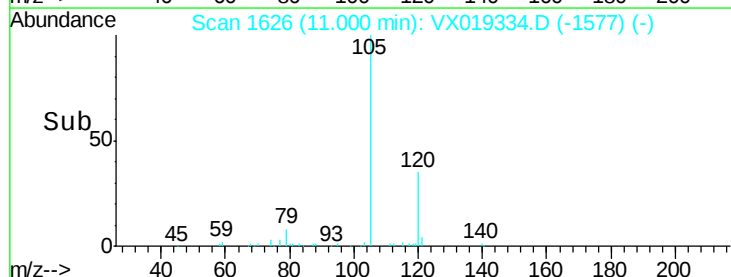
105 100

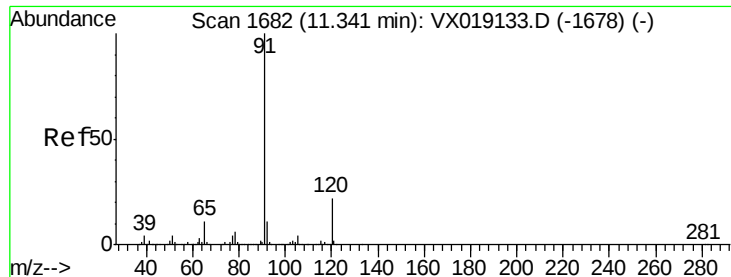
120 26.2 13.3 39.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

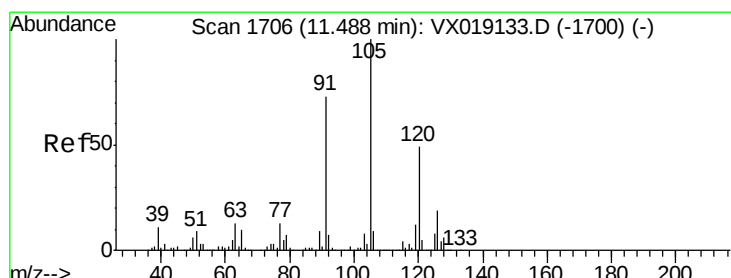
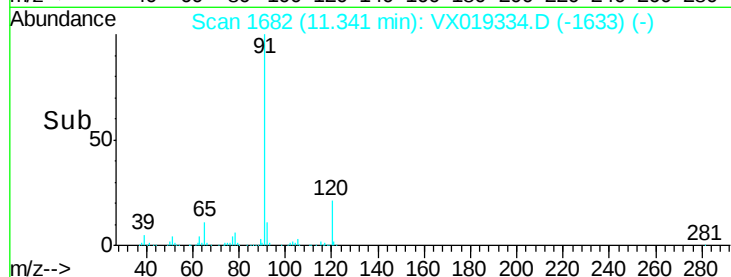
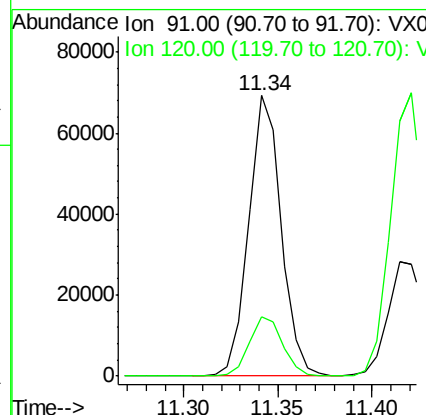
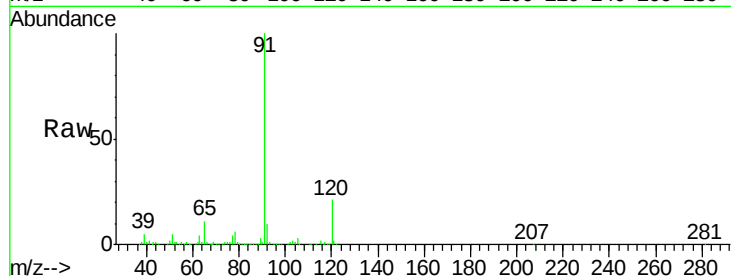




#78
n-propylbenzene
Concen: 4.022 ug/l
RT: 11.34 min Scan# 1682
Delta R.T. -0.00 min
Lab File: VX019334.D
Acq: 06 Nov 2020 12:21

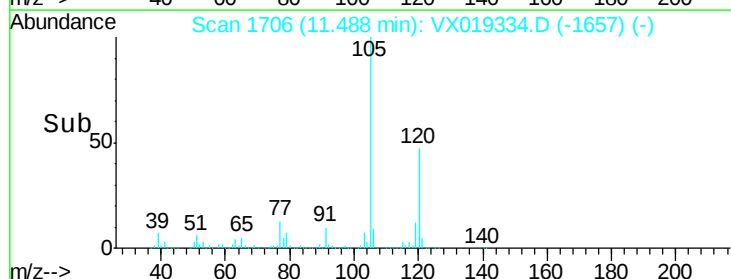
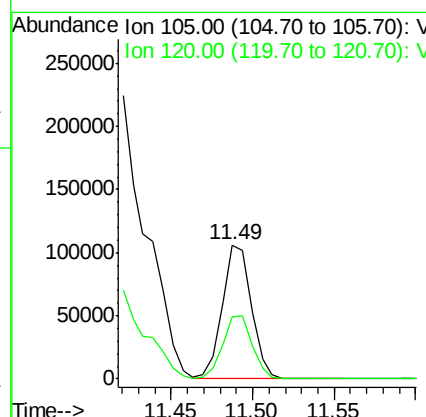
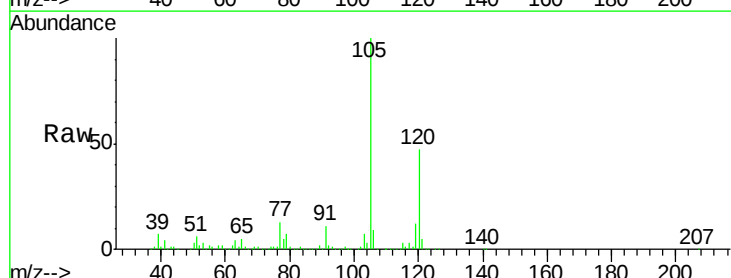
Instrument :
MSVOA_X
ClientSampleId :
32733DL

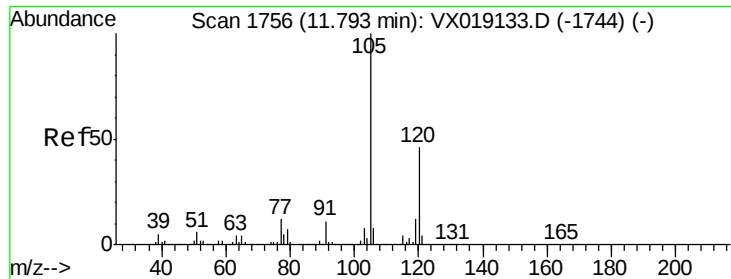
Tot Ion: 91 Resp: 82604
Ion Ratio Lower Upper
91 100
120 21.8 11.7 35.0



#80
1,3,5-Trimethylbenzene
Concen: 8.712 ug/l
RT: 11.49 min Scan# 1706
Delta R.T. -0.00 min
Lab File: VX019334.D
Acq: 06 Nov 2020 12:21

Tgt Ion: 105 Resp: 132411
Ion Ratio Lower Upper
105 100
120 48.3 24.3 72.8

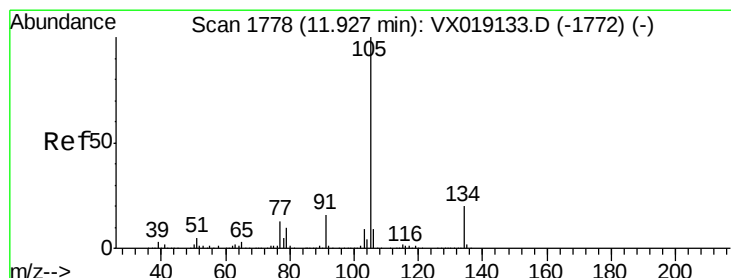
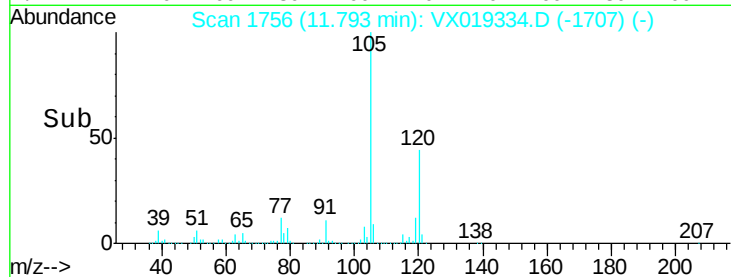
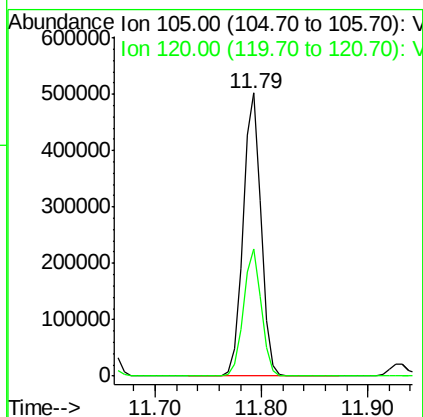
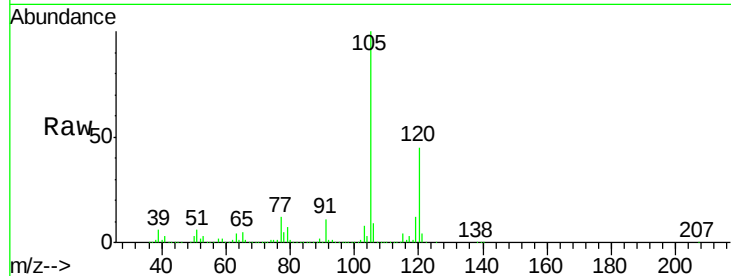




#84
 1,2,4-Trimethylbenzene
 Concen: 38.546 ug/l
 RT: 11.79 min Scan# 1756
 Delta R.T. -0.00 min
 Lab File: VX019334.D
 Acq: 06 Nov 2020 12:21

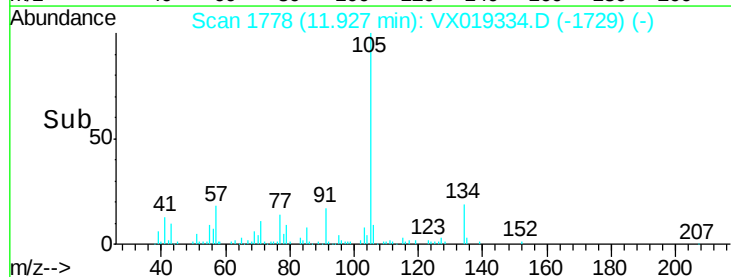
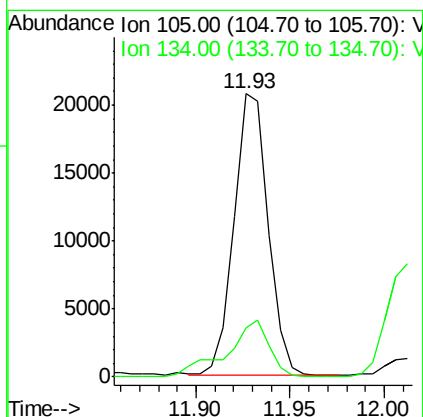
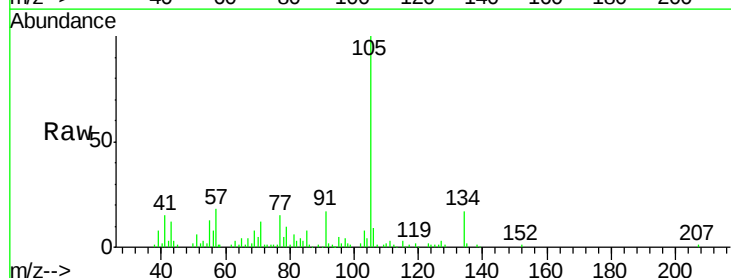
Instrument :
 MSVOA_X
 ClientSampled :
 32733DL

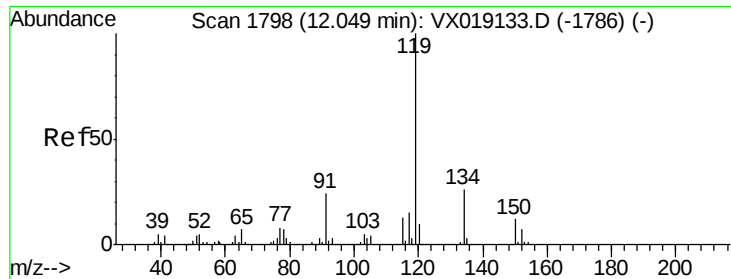
Tot Ion:105 Resp: 591418
 Ion Ratio Lower Upper
 105 100
 120 44.6 22.4 67.3



#85
 sec-Butylbenzene
 Concen: 1.491 ug/l
 RT: 11.93 min Scan# 1778
 Delta R.T. -0.00 min
 Lab File: VX019334.D
 Acq: 06 Nov 2020 12:21

Tgt Ion:105 Resp: 26030
 Ion Ratio Lower Upper
 105 100
 134 25.0 10.1 30.1

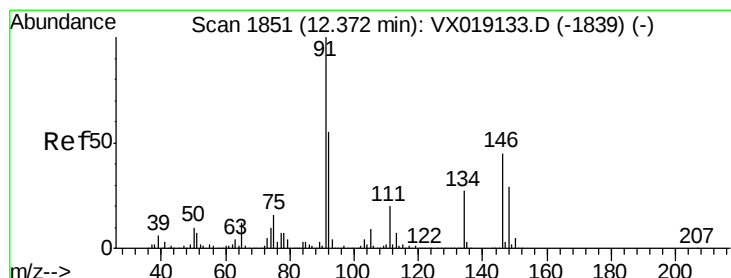
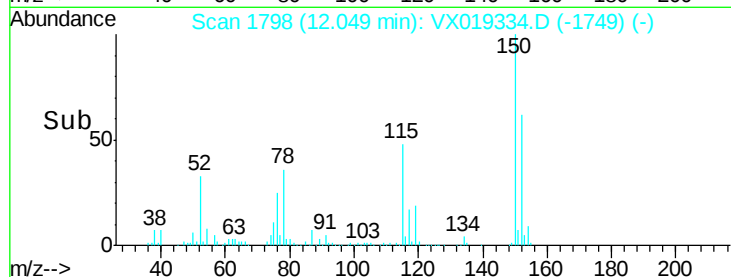
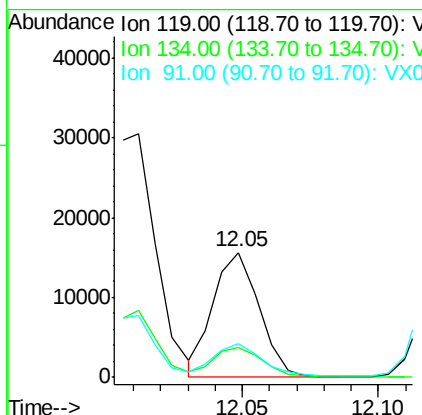
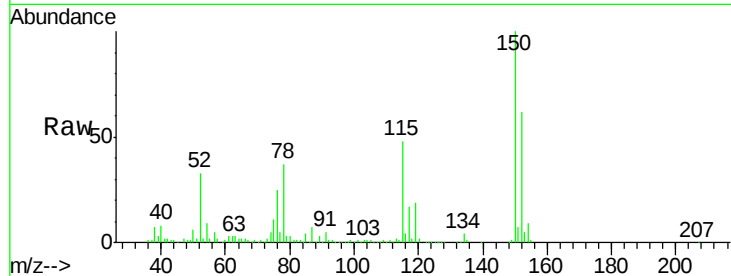




#86
 p-Isopropyltoluene
 Concen: 1.141 ug/l
 RT: 12.05 min Scan# 1798
 Delta R.T. -0.00 min
 Lab File: VX019334.D
 Acq: 06 Nov 2020 12:21

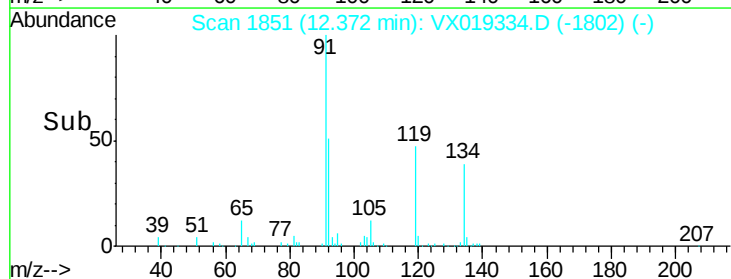
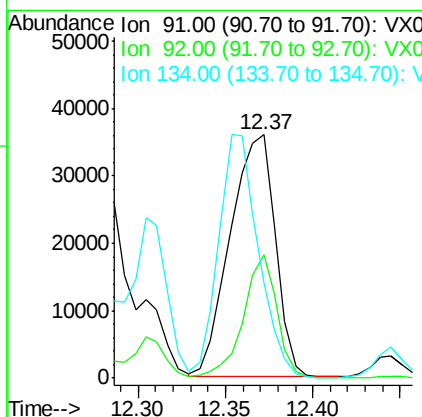
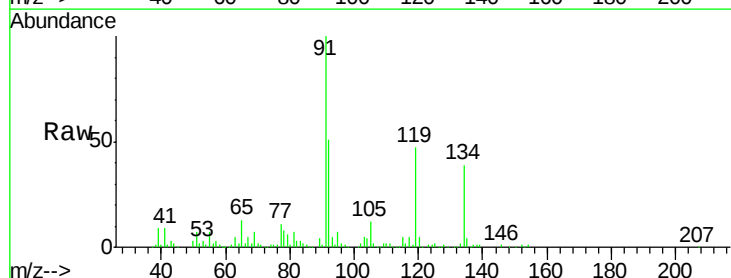
Instrument :
 MSVOA_X
 ClientSampled :
 32733DL

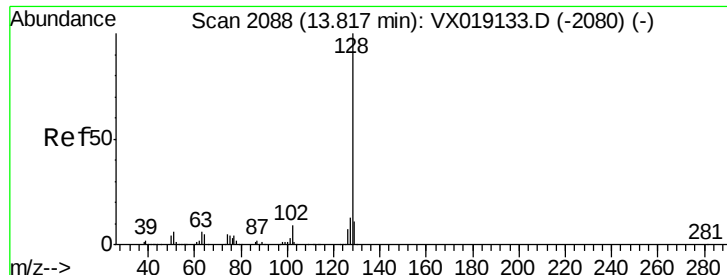
Tot Ion	Ratio	Lower	Upper
119	100		
134	26.0	12.9	38.7
91	26.5	12.0	36.0



#89
 n-Butylbenzene
 Concen: 4.244 ug/l
 RT: 12.37 min Scan# 1851
 Delta R.T. -0.00 min
 Lab File: VX019334.D
 Acq: 06 Nov 2020 12:21

Tgt Ion	Ratio	Lower	Upper
91	100		
92	37.9	27.5	82.4
134	89.2	13.2	39.6





#95

Naphthalene

Concen: 13.699 ug/l

RT: 13.82 min Scan# 2088

Delta R.T. -0.00 min

Lab File: VX019334.D

Acq: 06 Nov 2020 12:21

Instrument :

MSVOA_X

ClientSampleId :

32733DL

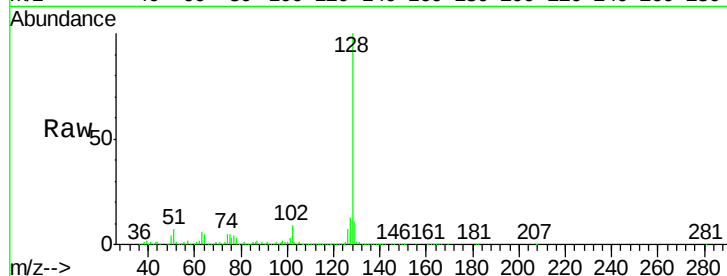
Tot Ion:128 Resp: 258747

Ion Ratio Lower Upper

128 100

127 13.0 10.3 15.5

129 11.3 8.6 13.0



Abundance

Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

