

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX101520\
 Data File : VX018951.D
 Acq On : 15 Oct 2020 22:31
 Operator : JC/SP
 Sample : L4386-03 5X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 14B-3

Quant Time: Oct 16 01:46:23 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X101520W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Oct 15 15:32:58 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	4.98	128	43859	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.83	114	246162	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.10	117	212363	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.03	65	91795	32.81	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	109.37%
60) 4-Bromofluorobenzene	11.12	95	97431	29.47	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	98.23%
63) Toluene-d8	8.70	98	291279	31.40	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	104.67%

Target Compounds

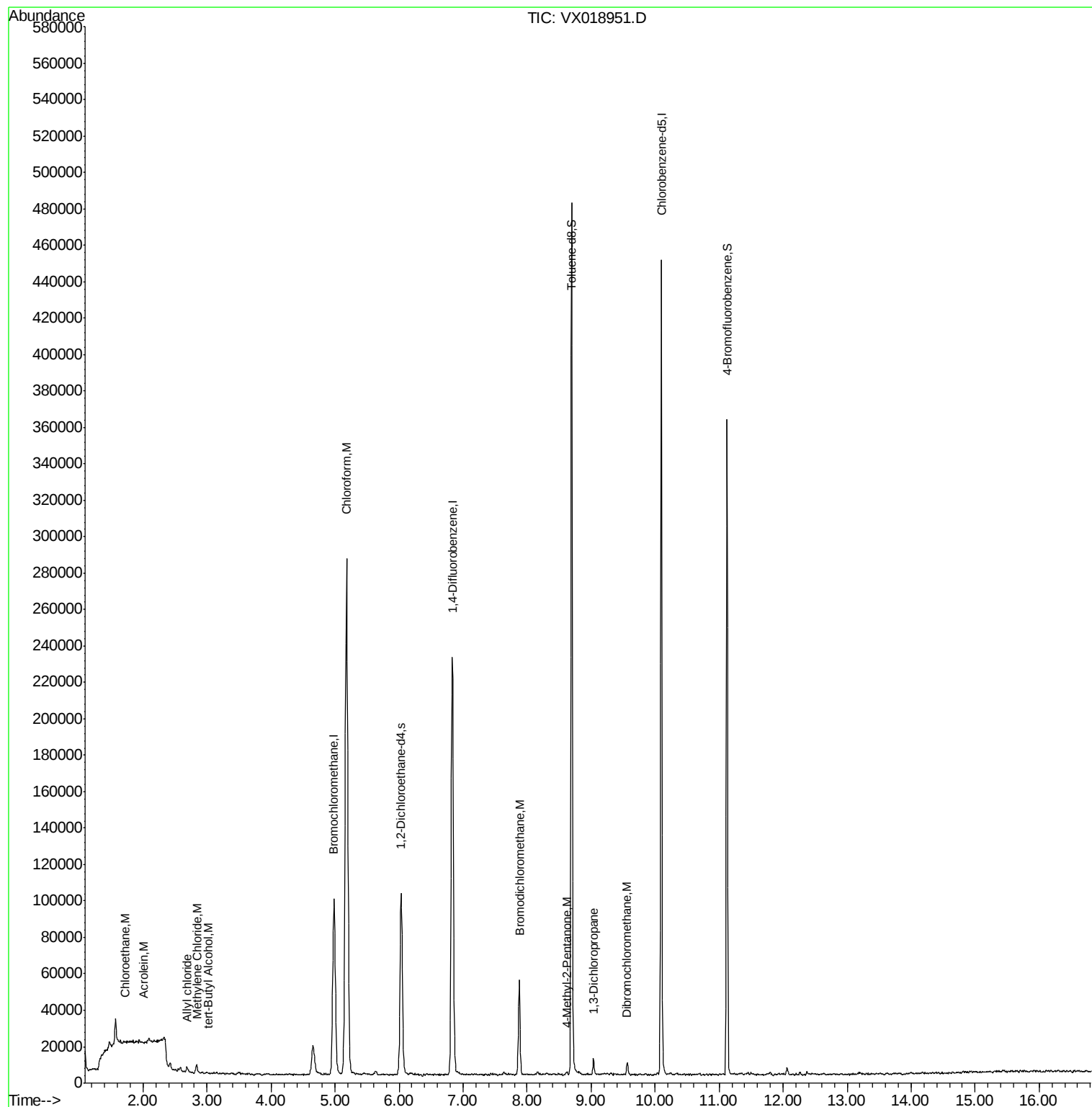
					Ovalue
6) Chloroethane	1.72	64	543	0.273 ug/l	89
13) Acrolein	2.00	56	109	0.221 ug/l	94
17) Allyl chloride	2.68	41	3554	1.043 ug/l #	32
18) Methylene Chloride	2.83	84	2401	0.907 ug/l	93
23) tert-Butyl Alcohol	3.02	59	164	0.246 ug/l #	55
25) Chloroform	5.18	83	342101	74.579 ug/l	98
41) Bromodichloromethane	7.88	83	32933	8.514 ug/l	99
52) 1,3-Dichloropropane	9.04	76	1329	0.295 ug/l	48
53) Dibromochloromethane	9.57	129	2171	0.669 ug/l	93
58) 4-Methyl-2-Pentanone	8.61	43	1414	0.417 ug/l #	62

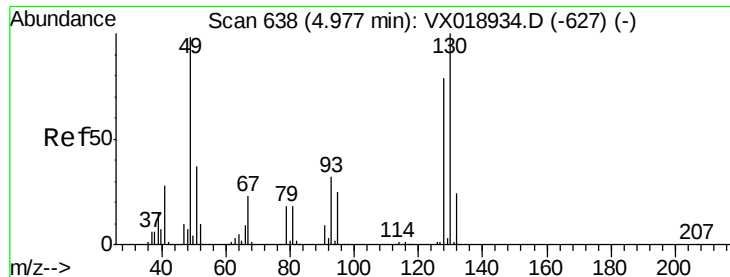
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX101520\
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Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
14B-3

Quant Time: Oct 16 01:46:23 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA X\METHOD\624X101520W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Oct 15 15:32:58 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 4.98 min Scan# 639

Delta R.T. 0.01 min

Lab File: VX018951.D

Acq: 15 Oct 2020 22:31

Instrument :

MSVOA_X

ClientSampled :

14B-3

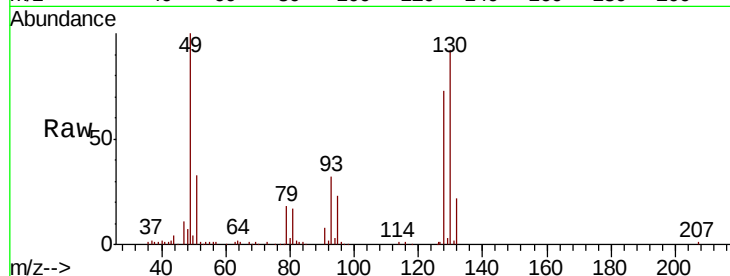
Tot Ion:128 Resp: 43859

Ion Ratio Lower Upper

128 100

49 137.5 0.0 330.5

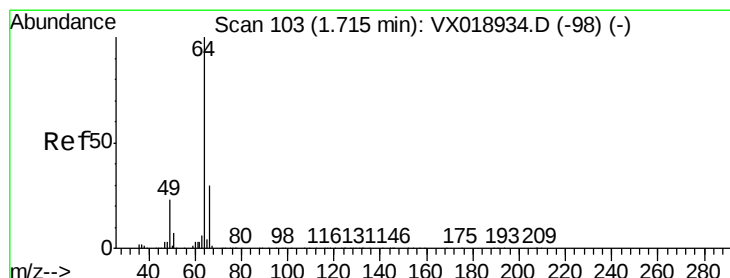
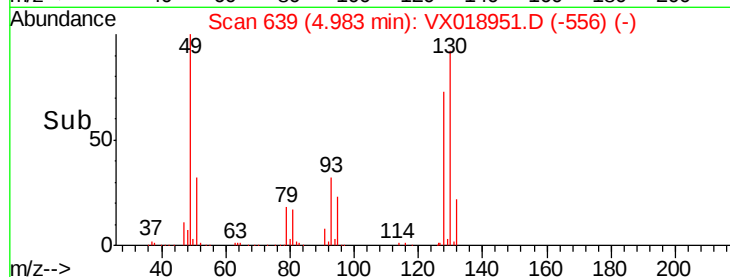
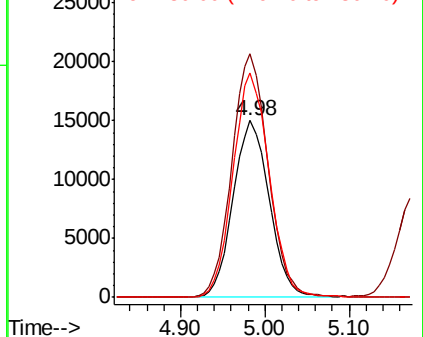
130 126.3 0.0 323.8



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



#6

Chloroethane

Concen: 0.273 ug/l

RT: 1.72 min Scan# 103

Delta R.T. 0.00 min

Lab File: VX018951.D

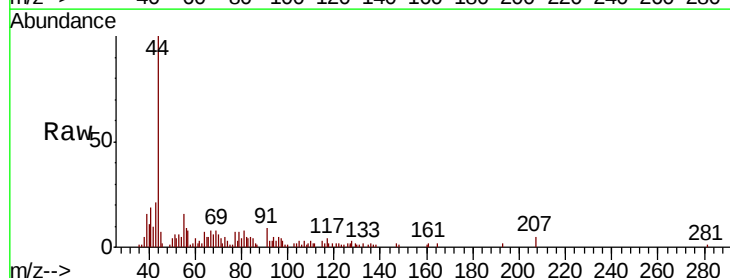
Acq: 15 Oct 2020 22:31

Tgt Ion: 64 Resp: 543

Ion Ratio Lower Upper

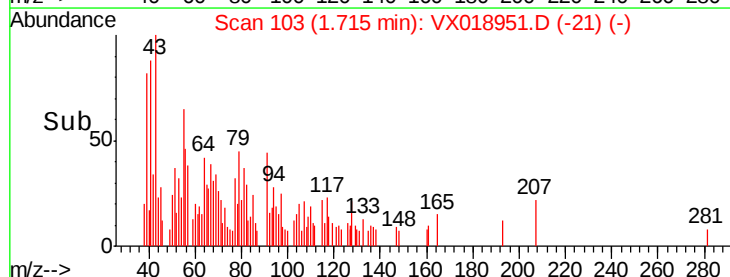
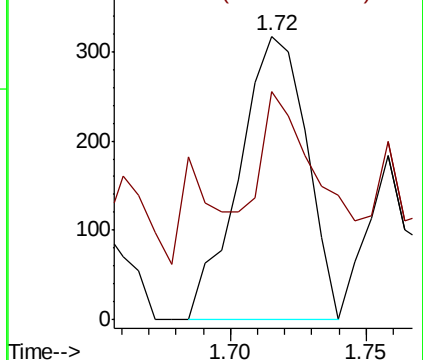
64 100

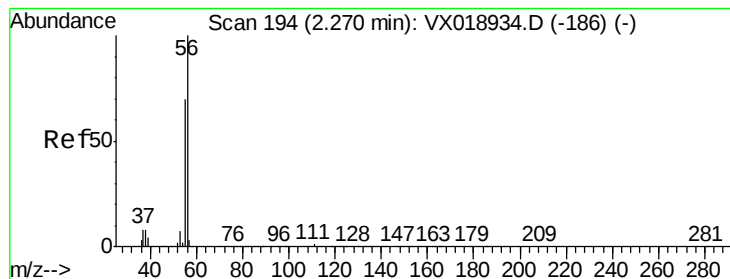
66 36.6 24.5 36.7



Abundance Ion 64.00 (63.70 to 64.70): VX0

Ion 66.00 (65.70 to 66.70): VX0





#13

Acrolein

Concen: 0.221 ug/l

RT: 2.00 min Scan# 149

Delta R.T. -0.27 min

Lab File: VX018951.D

Acq: 15 Oct 2020 22:31

Instrument :

MSVOA_X

ClientSampled :

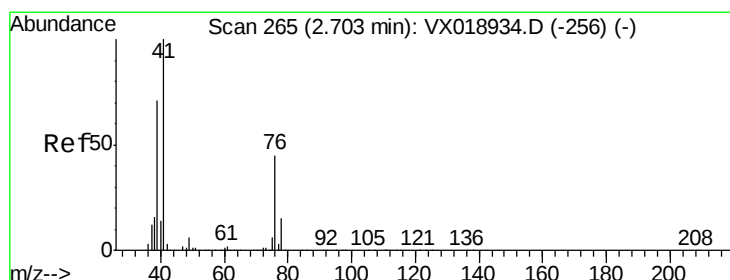
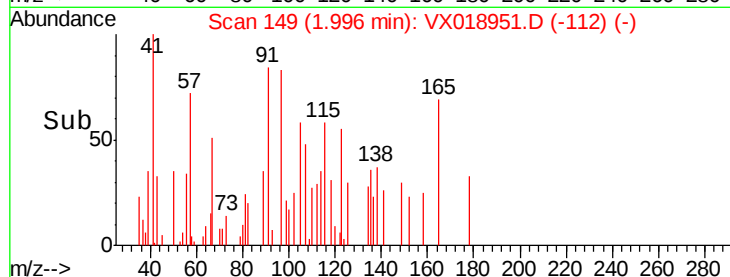
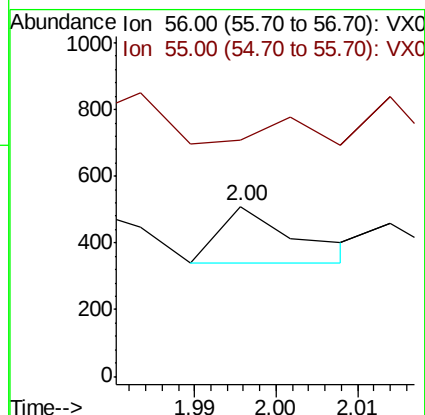
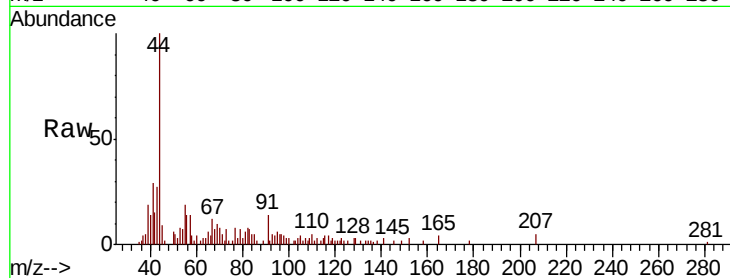
14B-3

Tot Ion: 56 Resp: 109

Ion Ratio Lower Upper

56 100

55 76.1 57.1 85.7



#17

Allyl chloride

Concen: 1.043 ug/l

RT: 2.68 min Scan# 262

Delta R.T. -0.02 min

Lab File: VX018951.D

Acq: 15 Oct 2020 22:31

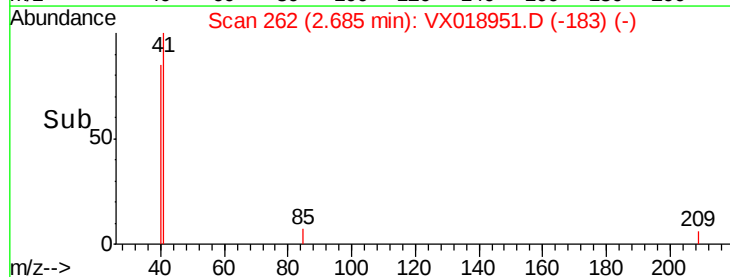
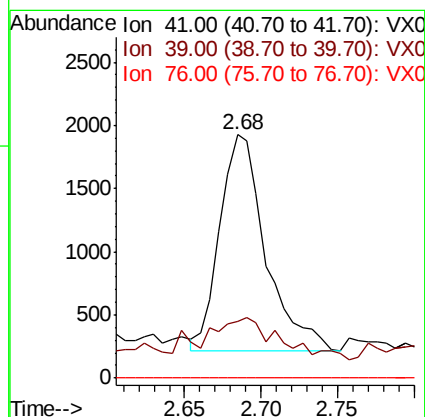
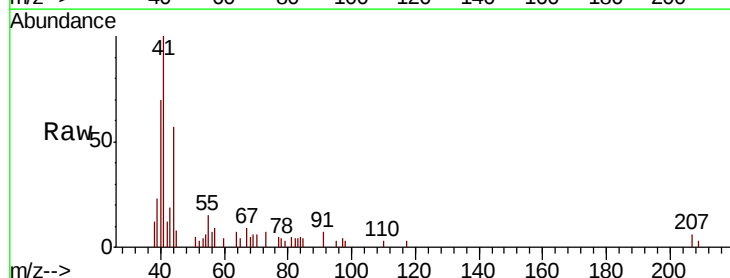
Tgt Ion: 41 Resp: 3554

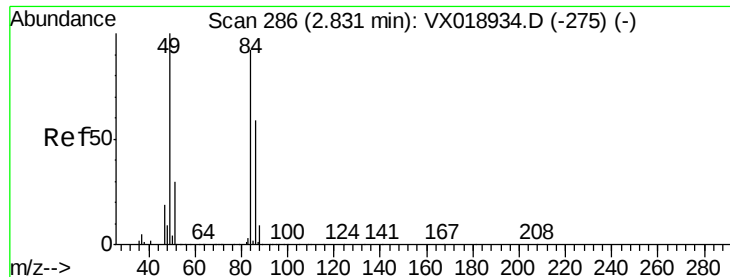
Ion Ratio Lower Upper

41 100

39 15.1 35.4 106.3#

76 0.0 22.4 67.2#

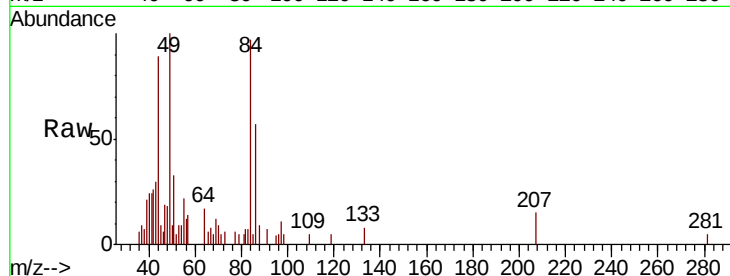




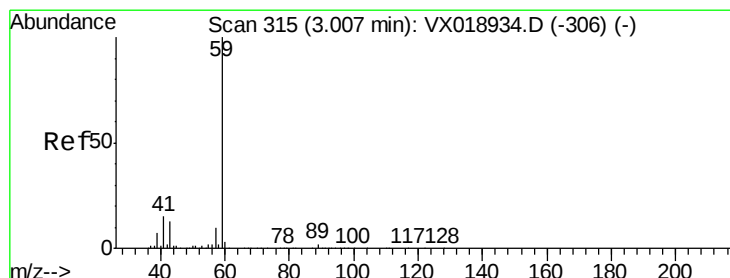
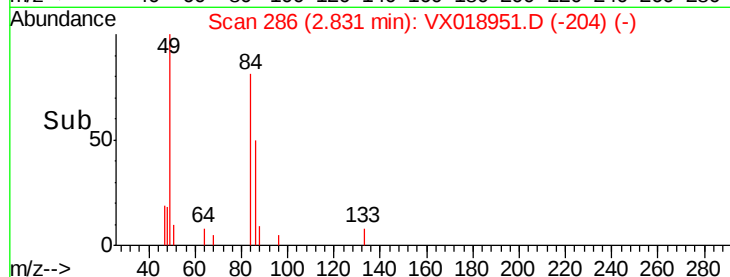
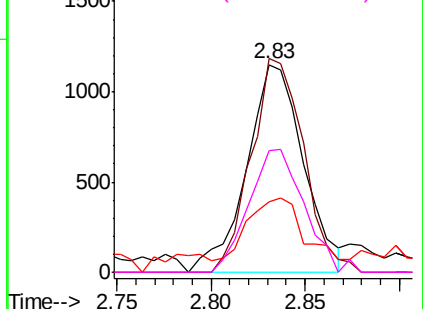
#18
Methvlene Chloride
Concen: 0.907 ug/l
RT: 2.83 min Scan# 286
Delta R.T. 0.00 min
Lab File: VX018951.D
Acq: 15 Oct 2020 22:31

Instrument :
MSVOA_X
ClientSampleId :
14B-3

Tot Ion:	84	Resp:	2401
Ion	Ratio	Lower	Upper
84	100		
49	102.9	87.2	130.8
51	27.9	25.9	38.9
86	58.7	51.3	76.9

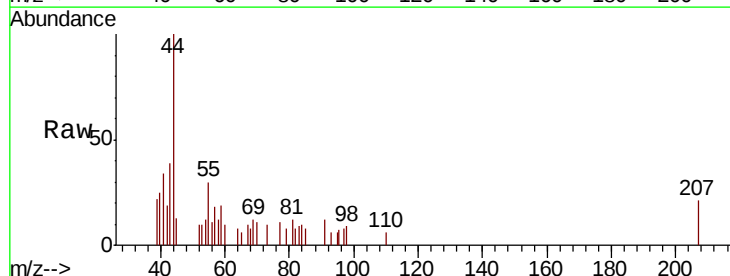


Abundance Ion 84.00 (83.70 to 84.70): VX0
Ion 49.00 (48.70 to 49.70): VX0
Ion 51.00 (50.70 to 51.70): VX0
Ion 86.00 (85.70 to 86.70): VX0

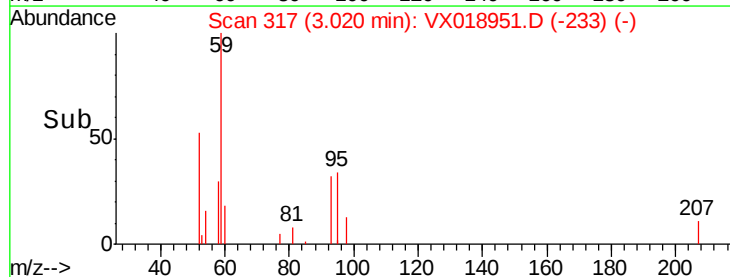
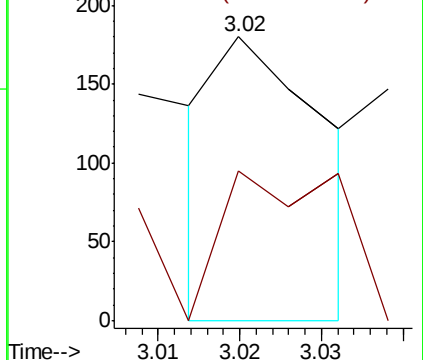


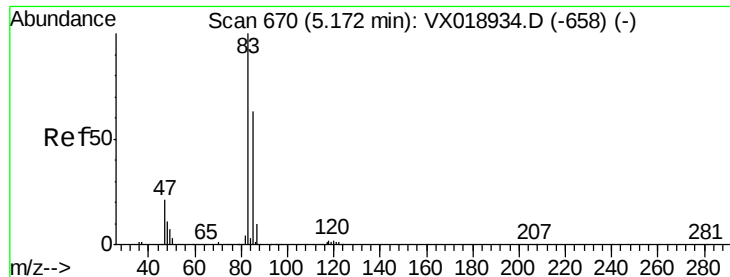
#23
tert-Butyl Alcohol
Concen: 0.246 ug/l
RT: 3.02 min Scan# 317
Delta R.T. 0.01 min
Lab File: VX018951.D
Acq: 15 Oct 2020 22:31

Tgt Ion:	59	Resp:	164
Ion	Ratio	Lower	Upper
59	100		
52	57.9	0.2	0.2#



Abundance Ion 59.00 (58.70 to 59.70): VX0
Ion 52.00 (51.70 to 52.70): VX0





#25

Chloroform

Concen: 74.579 ug/l

RT: 5.18 min Scan# 671

Delta R.T. 0.01 min

Lab File: VX018951.D

Acq: 15 Oct 2020 22:31

Instrument :

MSVOA_X

ClientSampleId :

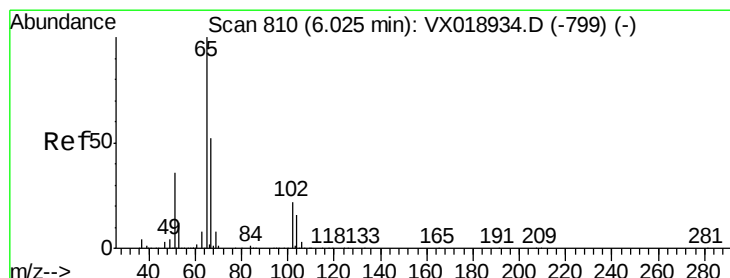
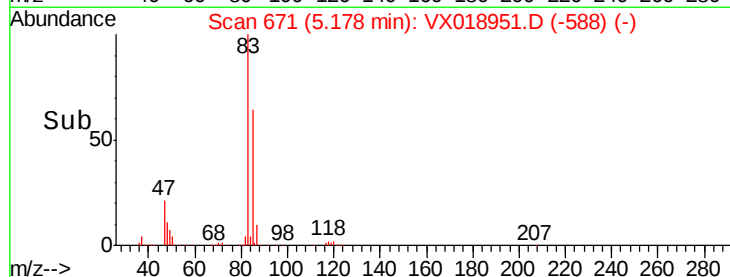
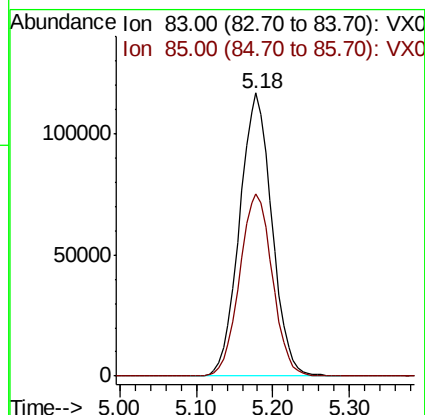
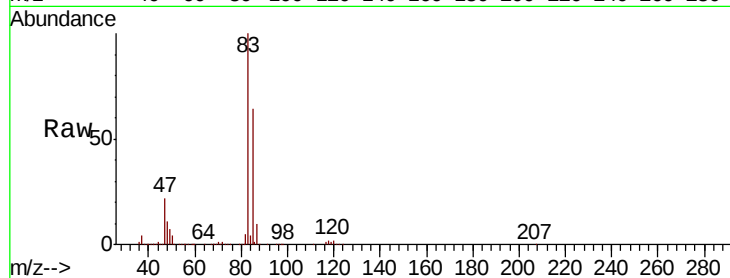
14B-3

Tot Ion: 83 Resp: 342101

Ion Ratio Lower Upper

83 100

85 64.2 50.3 75.5



#27

1,2-Dichloroethane-d4

Concen: 32.810 ug/l

RT: 6.03 min Scan# 811

Delta R.T. 0.01 min

Lab File: VX018951.D

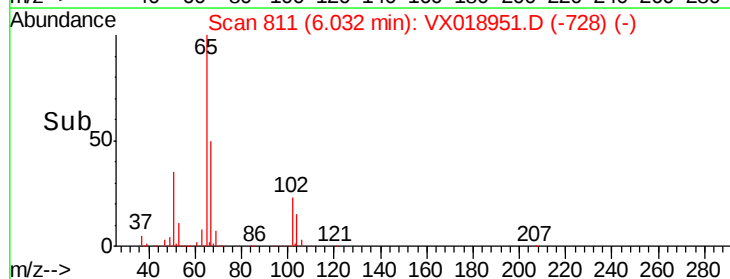
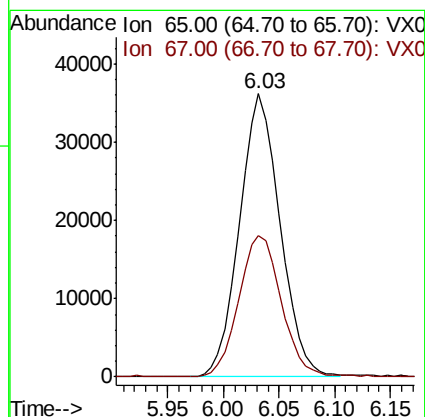
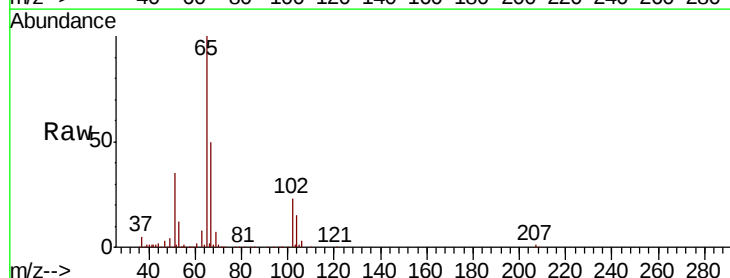
Acq: 15 Oct 2020 22:31

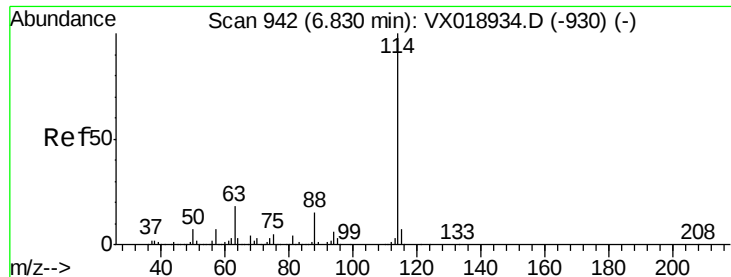
Tgt Ion: 65 Resp: 91795

Ion Ratio Lower Upper

65 100

67 52.3 42.1 63.1

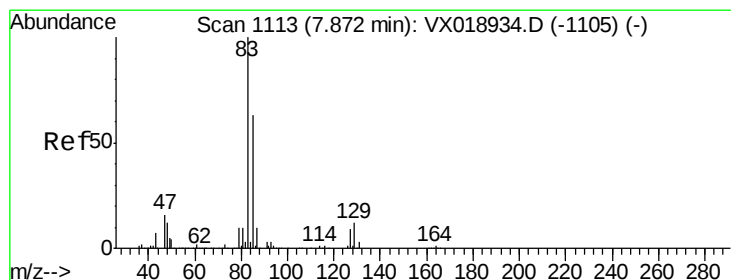
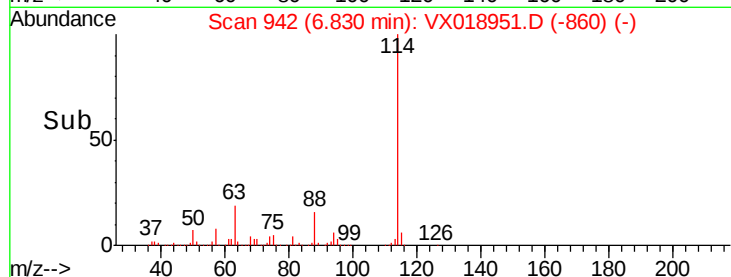
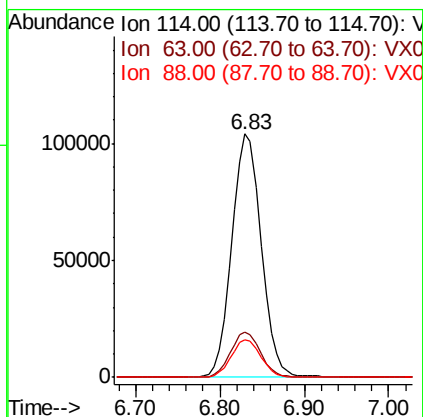
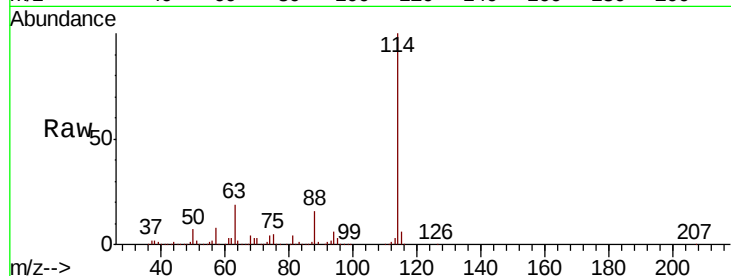




#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 6.83 min Scan# 942
 Delta R.T. 0.00 min
 Lab File: VX018951.D
 Acq: 15 Oct 2020 22:31

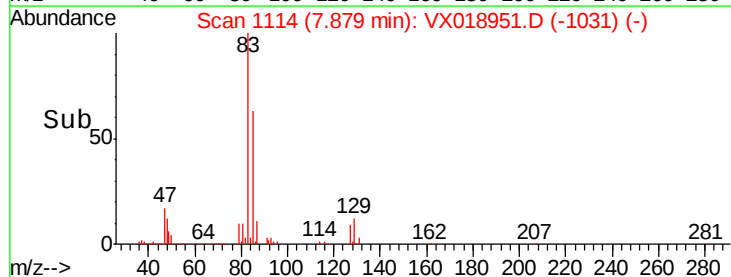
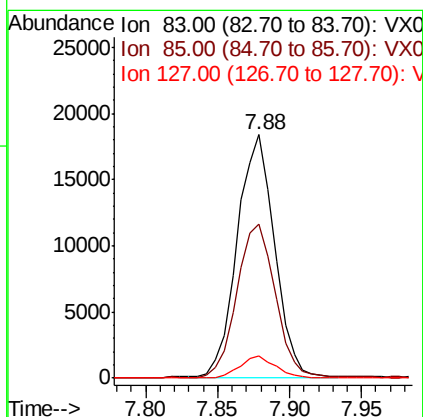
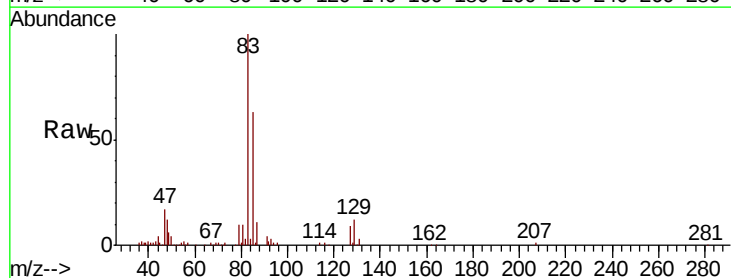
Instrument :
 MSVOA_X
 ClientSampled :
 14B-3

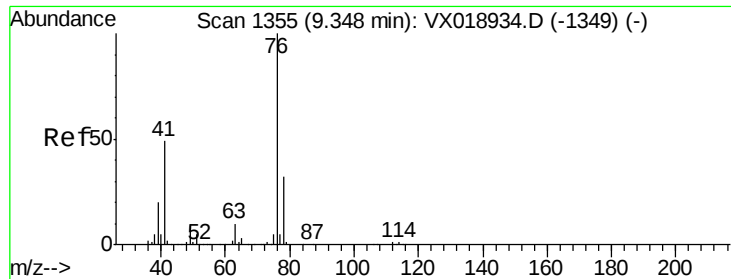
Tot Ion	Ratio	Lower	Upper
114	100		
63	18.9	14.6	21.8
88	15.6	12.3	18.5



#41
 Bromodichloromethane
 Concen: 8.514 ug/l
 RT: 7.88 min Scan# 1114
 Delta R.T. 0.01 min
 Lab File: VX018951.D
 Acq: 15 Oct 2020 22:31

Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.5	50.4	75.6
127	9.0	7.5	11.3





#52

1,3-Dichloropropane

Concen: 0.295 ug/l

RT: 9.04 min Scan# 1304

Delta R.T. -0.31 min

Lab File: VX018951.D

Acq: 15 Oct 2020 22:31

Instrument :

MSVOA_X

ClientSampleId :

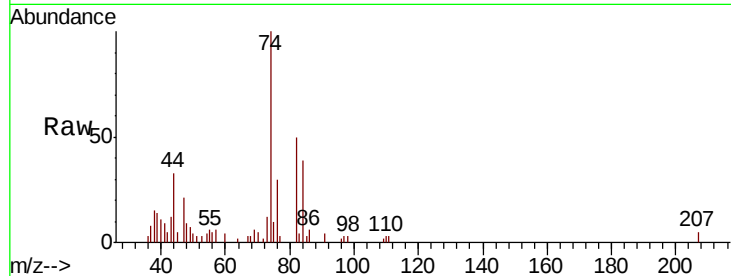
14B-3

Tot Ion: 76 Resp: 1329

Ion Ratio Lower Upper

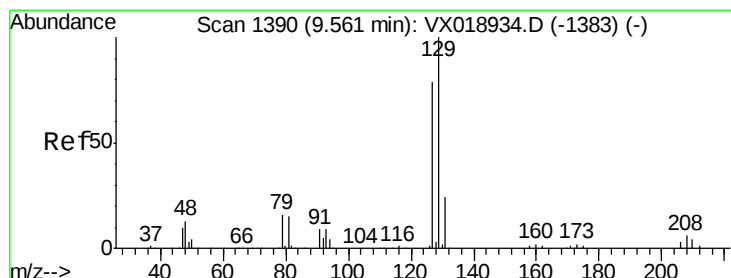
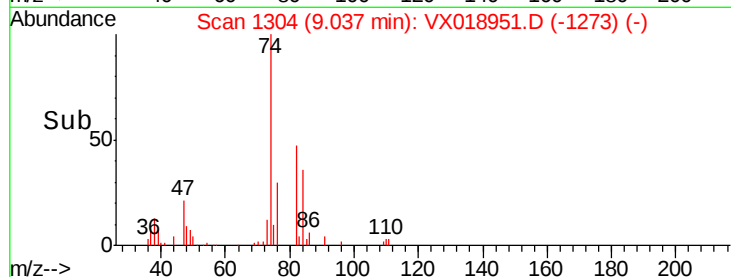
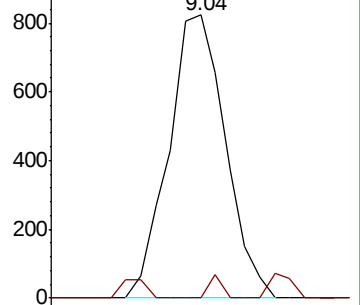
76 100

78 3.5 0.0 65.2



Abundance Ion 76.00 (75.70 to 76.70): VX0

Ion 78.00 (77.70 to 78.70): VX0



#53

Dibromochloromethane

Concen: 0.669 ug/l

RT: 9.57 min Scan# 1391

Delta R.T. 0.01 min

Lab File: VX018951.D

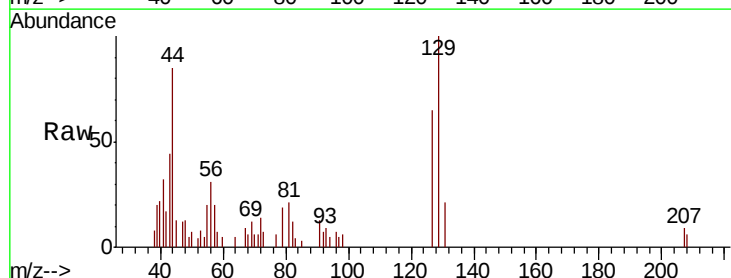
Acq: 15 Oct 2020 22:31

Tgt Ion: 129 Resp: 2171

Ion Ratio Lower Upper

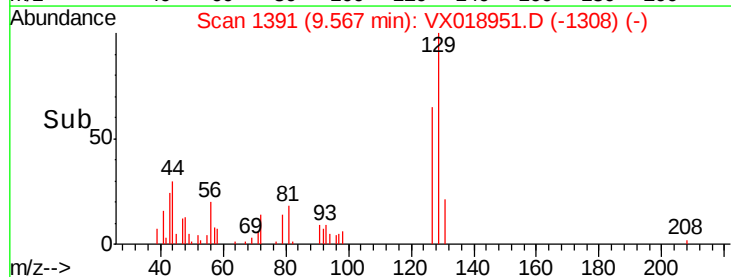
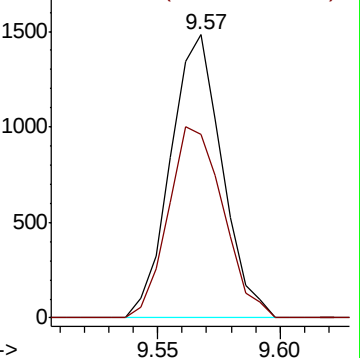
129 100

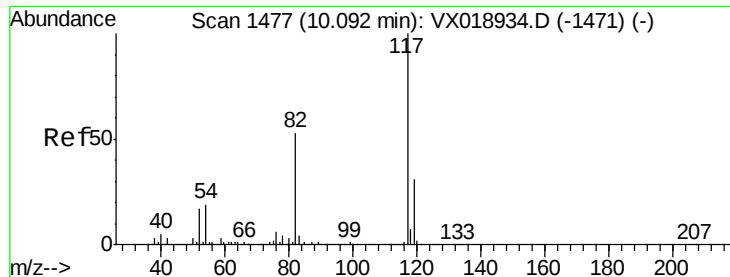
127 71.8 38.7 116.1



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

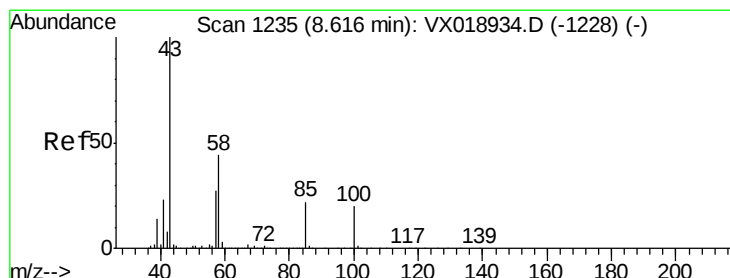
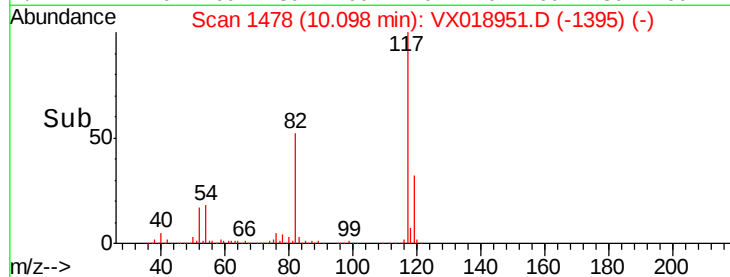
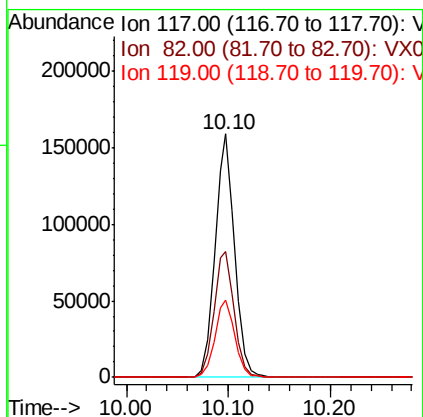
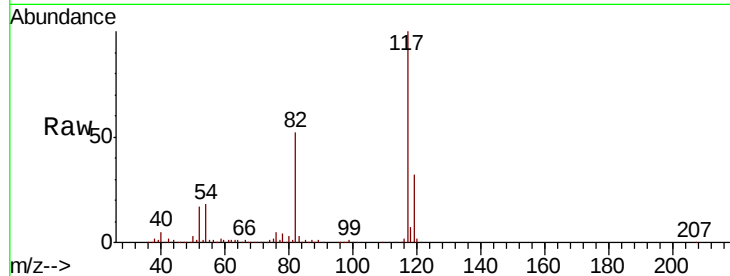




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. 0.01 min
Lab File: VX018951.D
Acq: 15 Oct 2020 22:31

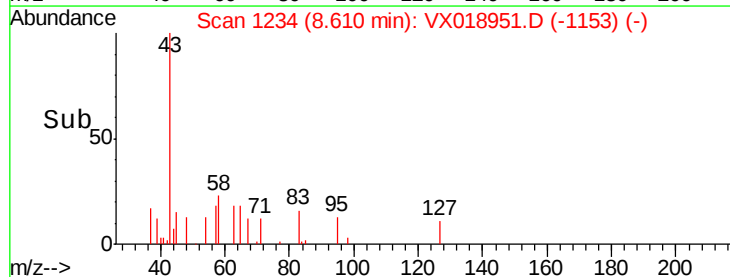
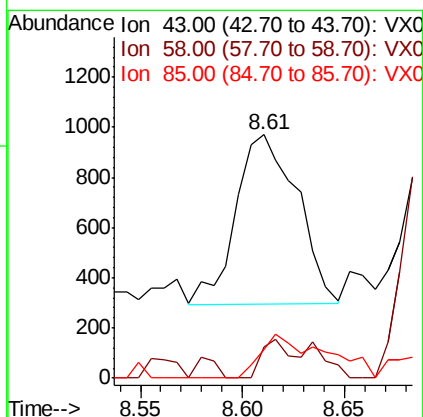
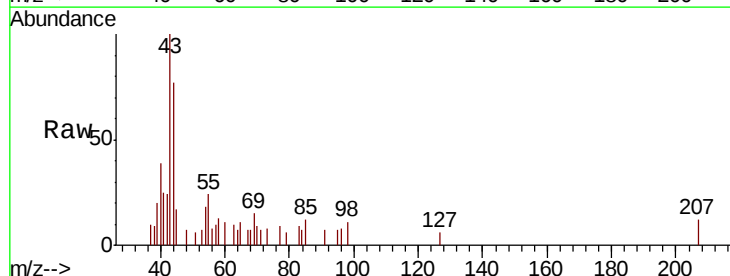
Instrument :
MSVOA_X
ClientSampled :
14B-3

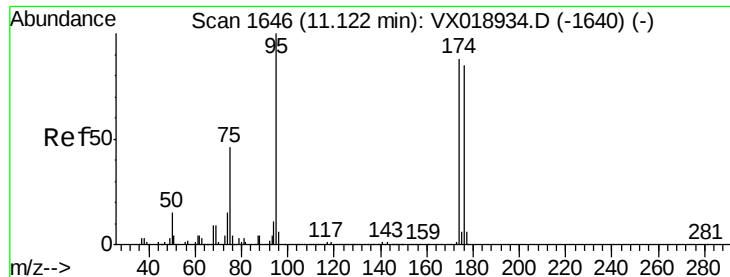
Tot Ion:117 Resp: 212363
Ion Ratio Lower Upper
117 100
82 53.6 41.6 62.4
119 32.6 25.7 38.5



#58
4-Methyl-2-Pentanone
Concen: 0.417 ug/l
RT: 8.61 min Scan# 1234
Delta R.T. -0.01 min
Lab File: VX018951.D
Acq: 15 Oct 2020 22:31

Tgt Ion: 43 Resp: 1414
Ion Ratio Lower Upper
43 100
58 11.9 35.4 53.2#
85 14.9 18.0 27.0#





#60

4-Bromofluorobenzene

Concen: 29.469 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.00 min

Lab File: VX018951.D

Acq: 15 Oct 2020 22:31

Instrument :

MSVOA_X

ClientSampled :

14B-3

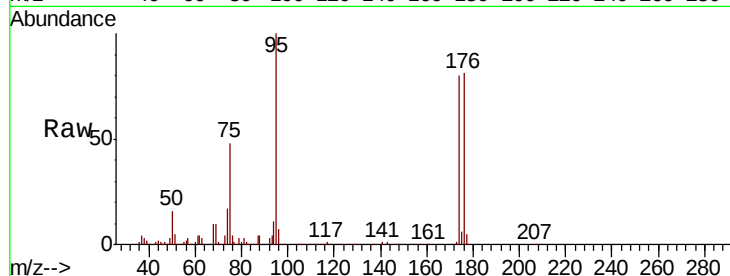
Tot Ion: 95 Resp: 97431

Ion Ratio Lower Upper

95 100

174 76.6 67.0 100.4

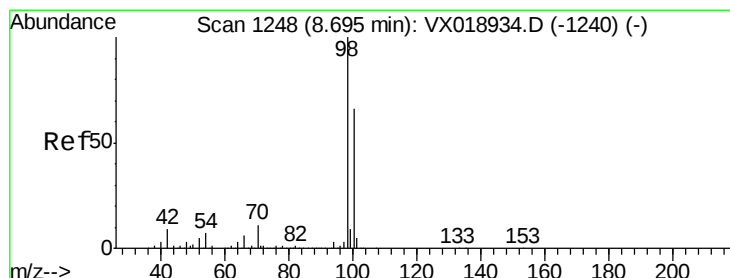
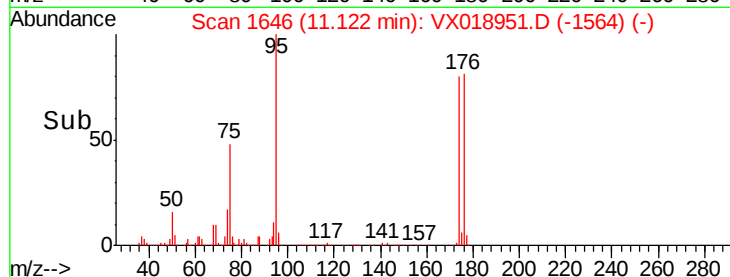
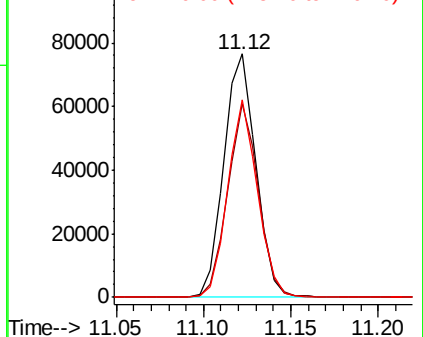
176 75.5 64.5 96.7



Abundance Ion 95.00 (94.70 to 95.70): VX0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V



#63

Toluene-d8

Concen: 31.398 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. 0.00 min

Lab File: VX018951.D

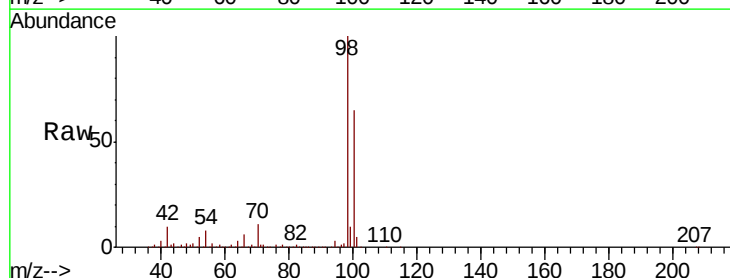
Acq: 15 Oct 2020 22:31

Tgt Ion: 98 Resp: 291279

Ion Ratio Lower Upper

98 100

100 65.4 53.2 79.8



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

