

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX042120\
 Data File : VX015798.D
 Acq On : 21 Apr 2020 16:39
 Operator : JC/SP
 Sample : L2327-15
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TP-4-D

Quant Time: Apr 22 04:19:43 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X032720W.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 27 09:35:51 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	1043503	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	1591906	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	1511301	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	867008	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.04	65	581657	39.52	ug/l	0.00
Spiked Amount			Recovery	=	79.04%	
35) Dibromofluoromethane	5.47	113	463993	45.60	ug/l	0.00
Spiked Amount			Recovery	=	91.20%	
50) Toluene-d8	8.70	98	1904129	50.82	ug/l	0.00
Spiked Amount			Recovery	=	101.64%	
62) 4-Bromofluorobenzene	11.12	95	810453	53.23	ug/l	0.00
Spiked Amount			Recovery	=	106.46%	

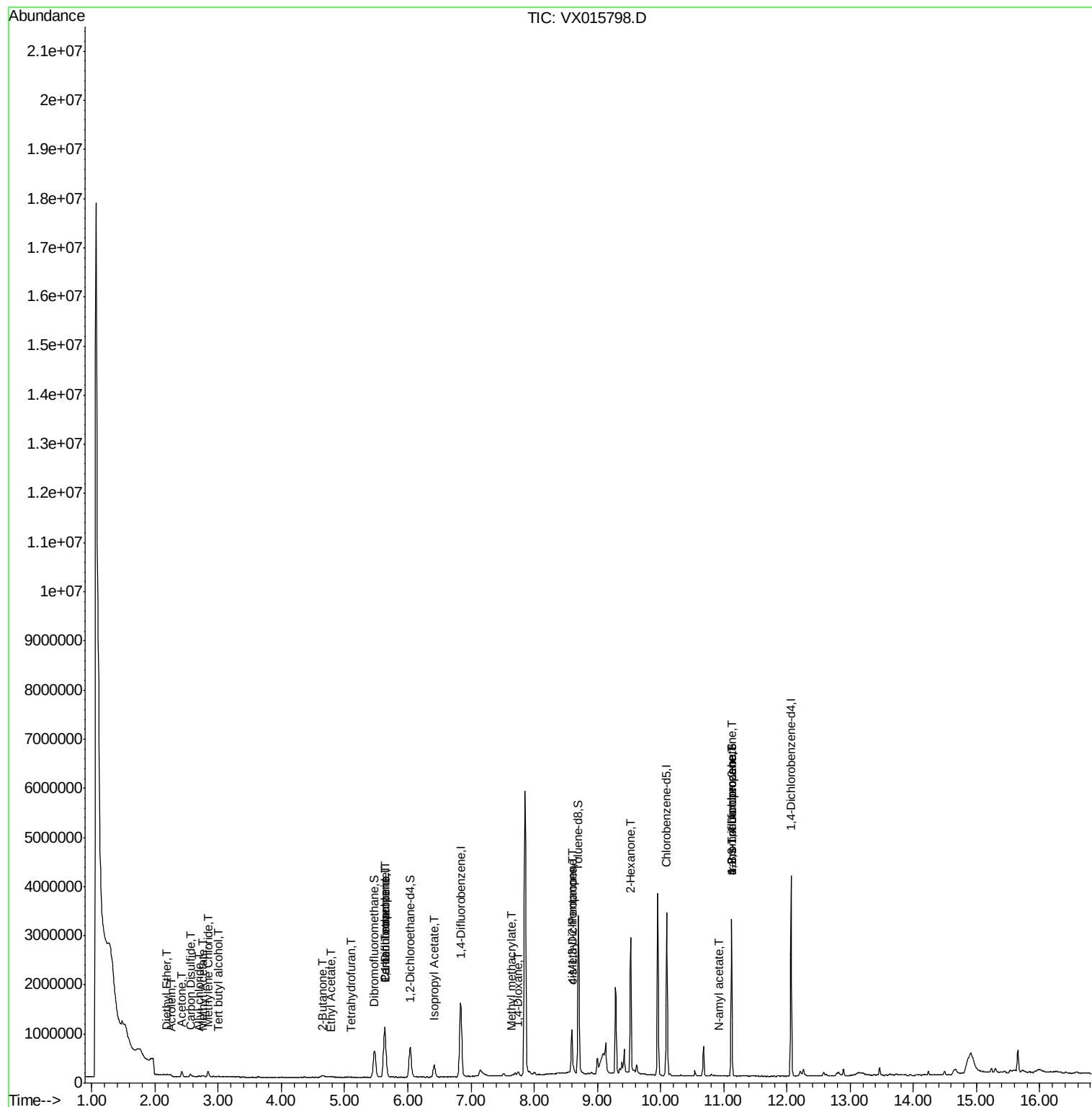
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	1195	Below Cal	#	62
8) Diethyl Ether	2.18	74	2012	0.331	ug/l	61
11) Tert butyl alcohol	3.01	59	4692	1.332	ug/l #	63
13) Acrolein	2.27	56	413	0.206	ug/l #	14
14) Allyl chloride	2.69	41	4742	0.206	ug/l #	76
16) Acetone	2.42	43	137163	21.693	ug/l	99
17) Carbon Disulfide	2.56	76	80725	2.686	ug/l	96
18) Methyl Acetate	2.76	43	28257	1.751	ug/l	97
20) Methylene Chloride	2.84	84	45915	3.888	ug/l	96
25) 2-Butanone	4.65	43	34085	3.352	ug/l	99
29) Tetrahydrofuran	5.11	42	4178	0.639	ug/l #	53
36) 1,1-Dichloropropene	5.64	75	68762	4.688	ug/l #	53
37) Ethyl Acetate	4.80	43	5089	0.266	ug/l #	96
38) Carbon Tetrachloride	5.63	117	95876	6.035	ug/l #	15
43) Isopropyl Acetate	6.42	43	364775	11.314	ug/l	99
48) Methyl methacrylate	7.65	41	20819	1.293	ug/l #	19
49) 1,4-Dioxane	7.74	88	5331	17.746	ug/l #	65
51) 4-Methyl-2-Pentanone	8.60	43	394333	21.582	ug/l #	47
54) cis-1,3-Dichloropropene	8.60	75	139005	7.082	ug/l #	50
59) 2-Hexanone	9.53	43	420566	30.489	ug/l #	47
74) N-amyl acetate	10.92	43	18280	0.579	ug/l #	55
76) 1,2,3-Trichloropropane	11.12	75	389356	21.838	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.12	75	389356	52.399	ug/l #	10

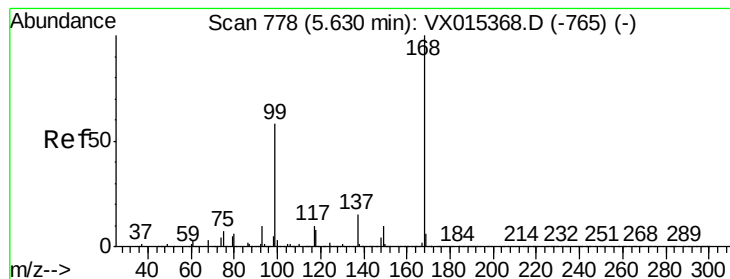
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Apr 22 04:19:43 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X032720W.M
Quant Title : SW846 8260
QLast Update : Fri Mar 27 09:35:51 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 779

Delta R.T. 0.01 min

Lab File: VX015798.D

Acq: 21 Apr 2020 16:39

Instrument :

MSVOA_X

ClientSampled :

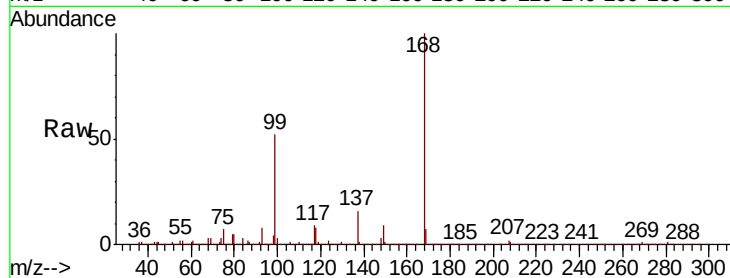
TP-4-D

Tot Ion:168 Resp: 1043503

Ion Ratio Lower Upper

168 100

99 51.9 46.4 69.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.64

400000

300000

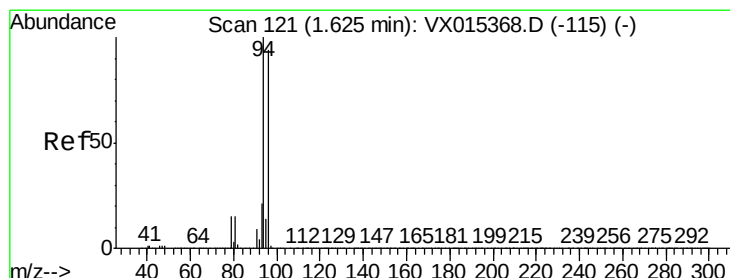
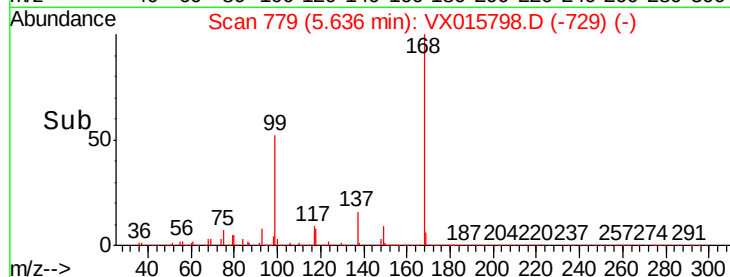
200000

100000

0

Time-->

5.50 5.60 5.70 5.80 5.90



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 125

Delta R.T. 0.03 min

Lab File: VX015798.D

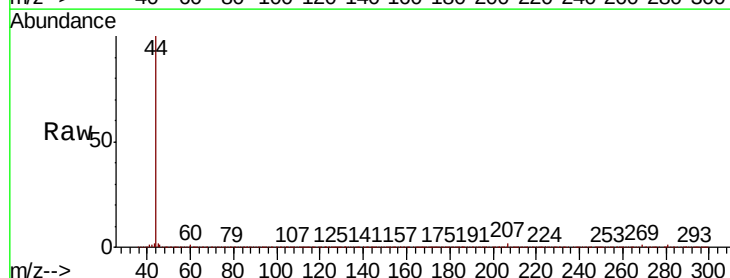
Acq: 21 Apr 2020 16:39

Tgt Ion: 94 Resp: 1195

Ion Ratio Lower Upper

94 100

96 56.7 74.8 112.2#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

3000

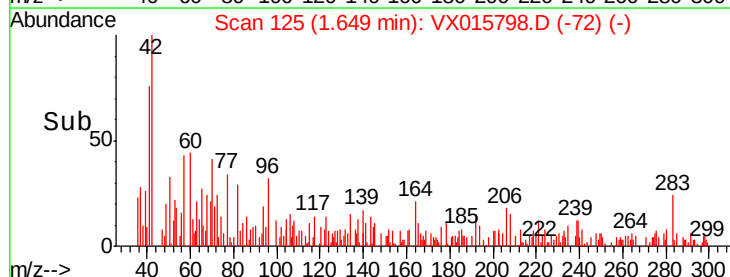
2000

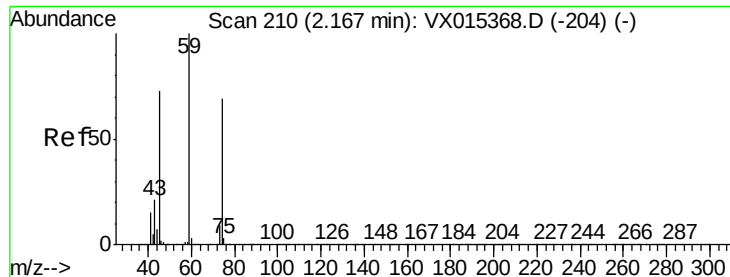
1000

0

Time-->

1.62 1.64 1.66 1.68 1.70





#8

Diethyl Ether

Concen: 0.331 ug/l

RT: 2.18 min Scan# 212

Delta R.T. 0.01 min

Lab File: VX015798.D

Acq: 21 Apr 2020 16:39

Instrument :

MSVOA_X

ClientSampleId :

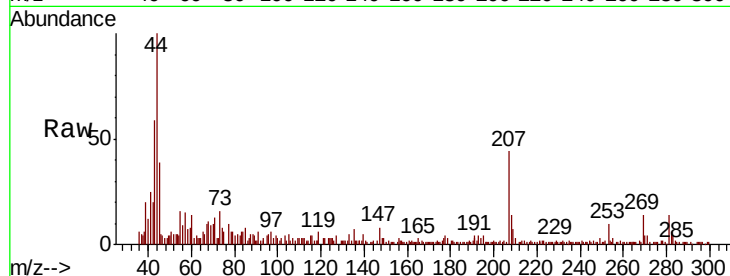
TP-4-D

Tot Ion: 74 Resp: 2012

Ion Ratio Lower Upper

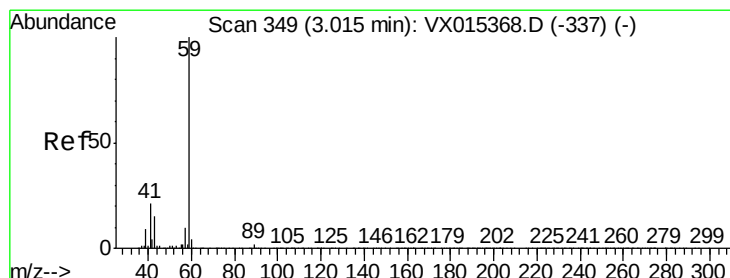
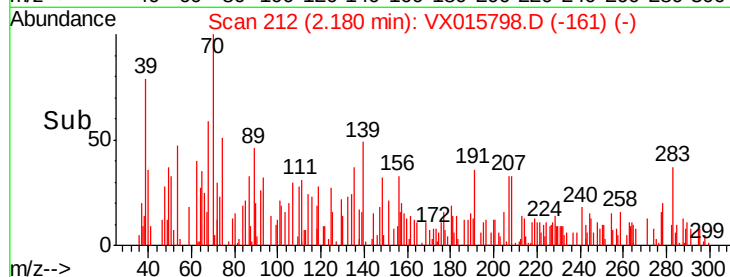
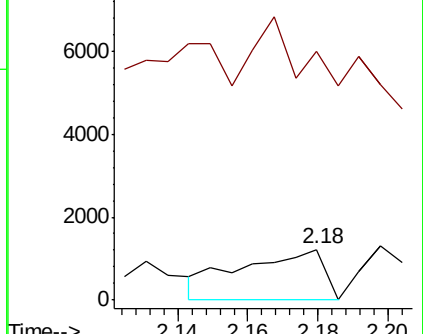
74 100

45 148.7 53.8 161.4



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0



#11

Tert butyl alcohol

Concen: 1.332 ug/l

RT: 3.01 min Scan# 348

Delta R.T. -0.01 min

Lab File: VX015798.D

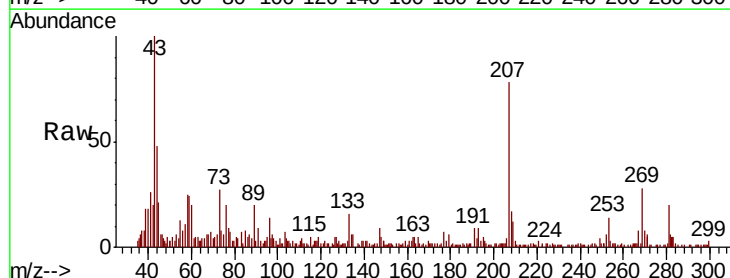
Acq: 21 Apr 2020 16:39

Tgt Ion: 59 Resp: 4692

Ion Ratio Lower Upper

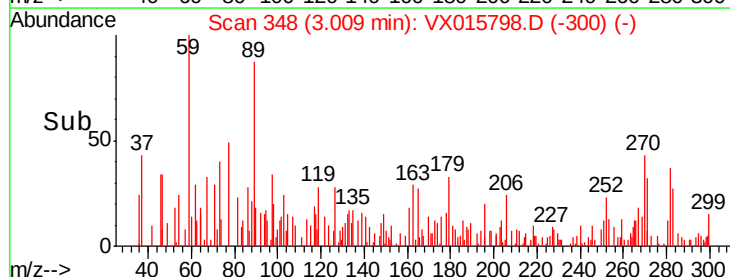
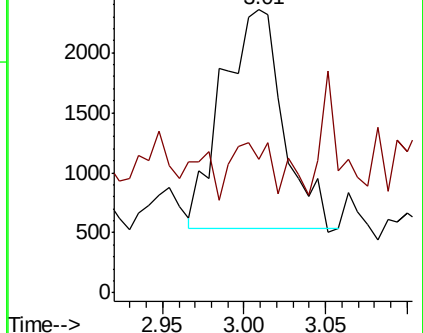
59 100

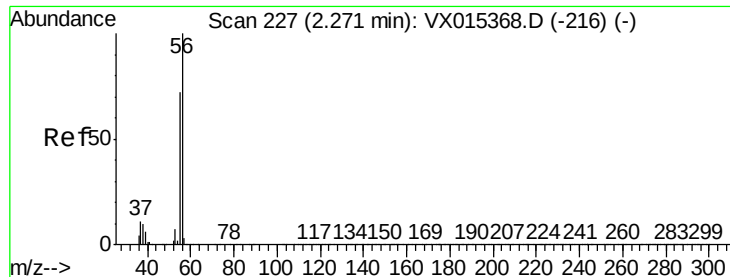
57 23.8 8.1 12.1#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 0.206 ug/l

RT: 2.27 min Scan# 226

Delta R.T. -0.01 min

Lab File: VX015798.D

Acq: 21 Apr 2020 16:39

Instrument :

MSVOA_X

ClientSampled :

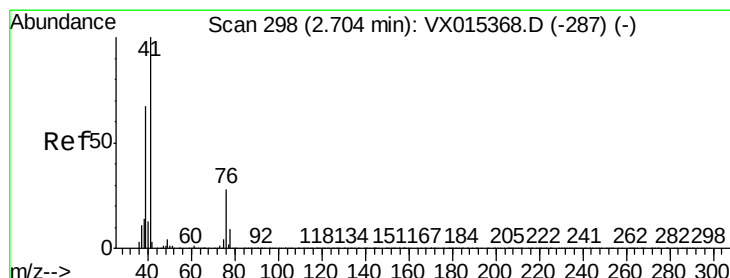
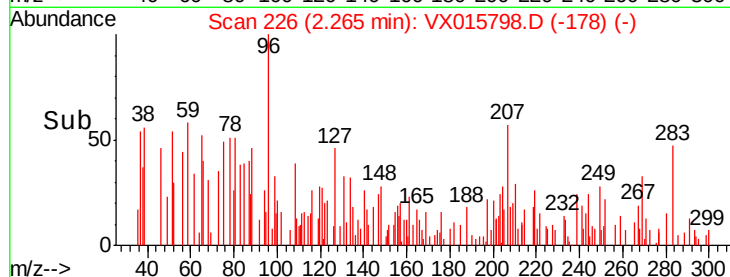
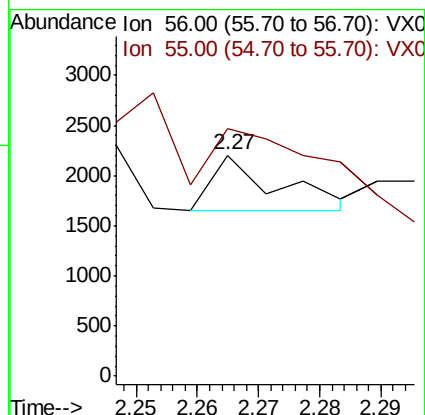
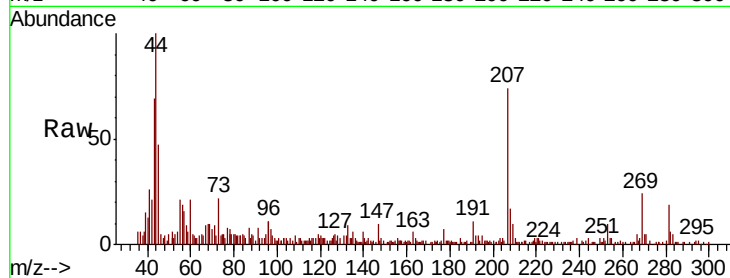
TP-4-D

Tot Ion: 56 Resp: 413

Ion Ratio Lower Upper

56 100

55 0.0 57.0 85.4#



#14

Allyl chloride

Concen: 0.206 ug/l

RT: 2.69 min Scan# 296

Delta R.T. -0.01 min

Lab File: VX015798.D

Acq: 21 Apr 2020 16:39

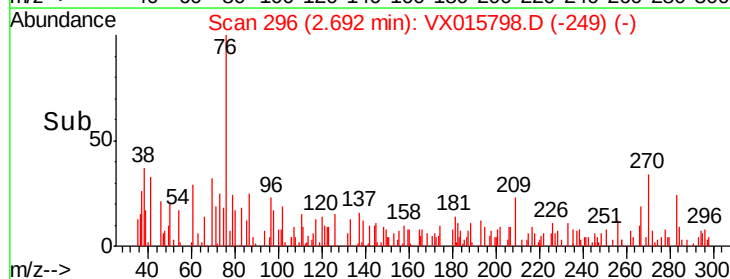
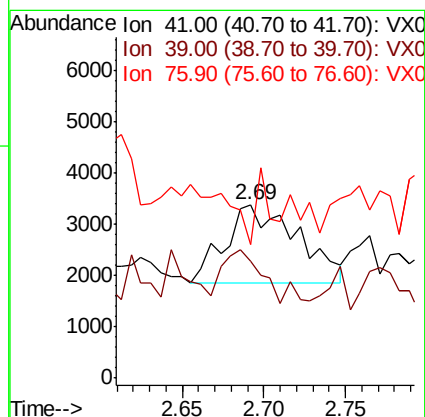
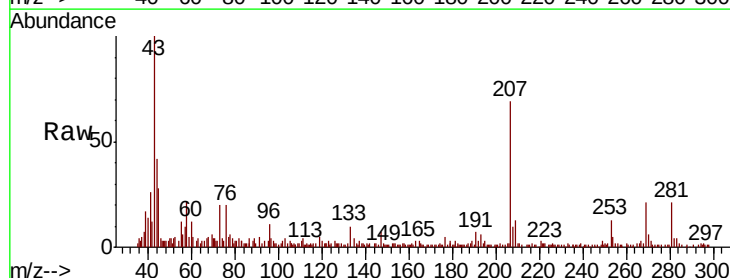
Tgt Ion: 41 Resp: 4742

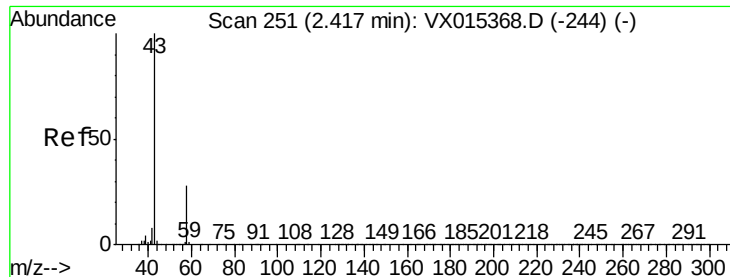
Ion Ratio Lower Upper

41 100

39 54.7 51.4 77.0

76 0.0 21.8 32.8#





#16

Acetone

Concen: 21.693 ug/l

RT: 2.42 min Scan# 252

Delta R.T. 0.01 min

Lab File: VX015798.D

Acq: 21 Apr 2020 16:39

Instrument :

MSVOA_X

ClientSampleId :

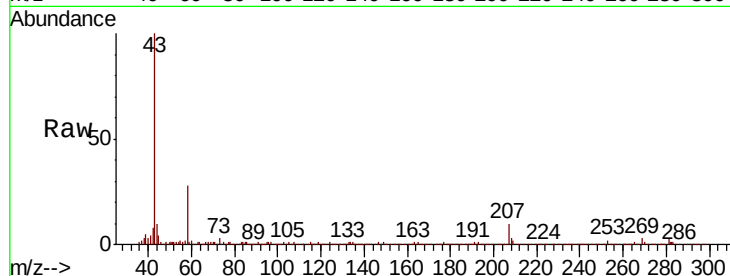
TP-4-D

Tot Ion: 43 Resp: 137163

Ion Ratio Lower Upper

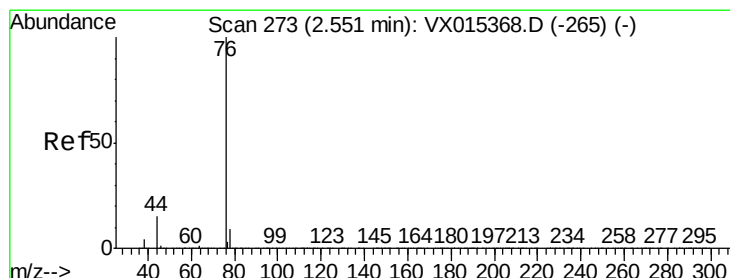
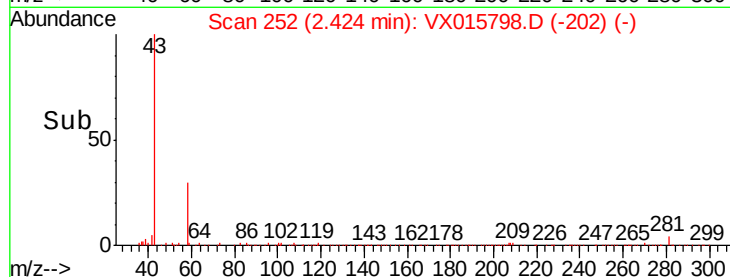
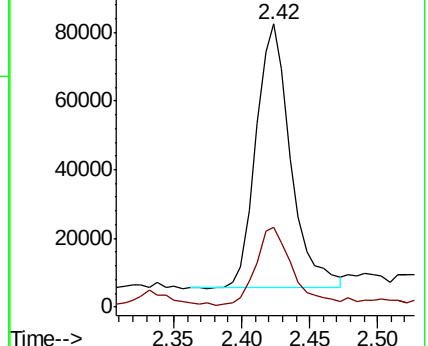
43 100

58 28.3 22.1 33.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#17

Carbon Disulfide

Concen: 2.686 ug/l

RT: 2.56 min Scan# 274

Delta R.T. 0.01 min

Lab File: VX015798.D

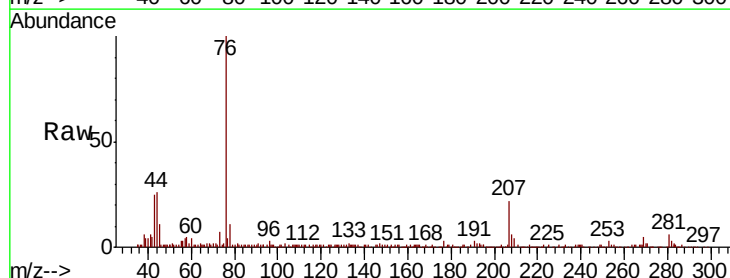
Acq: 21 Apr 2020 16:39

Tgt Ion: 76 Resp: 80725

Ion Ratio Lower Upper

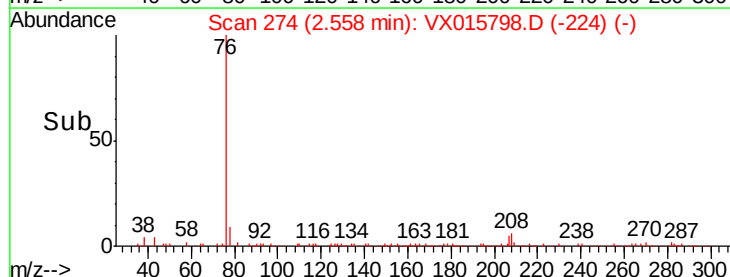
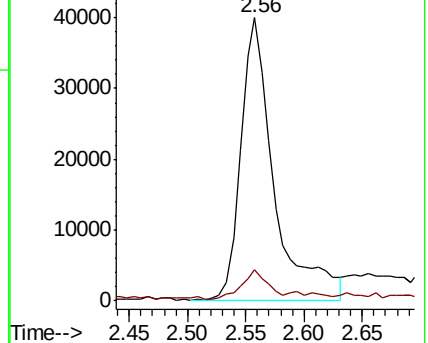
76 100

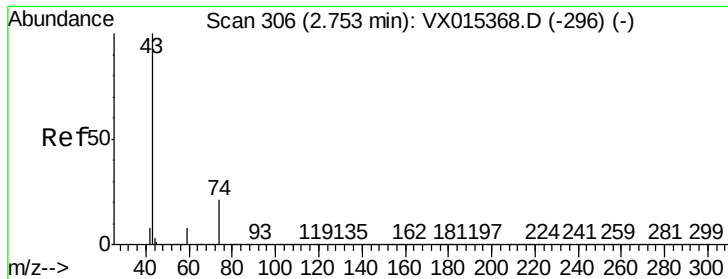
78 10.2 7.1 10.7



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

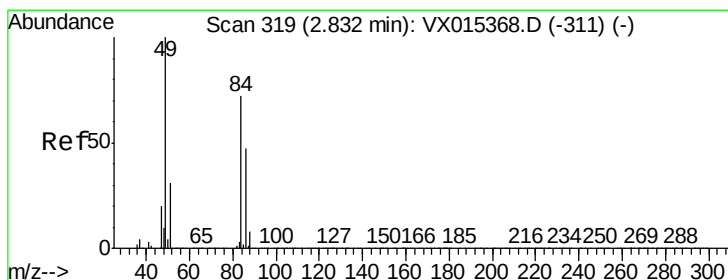
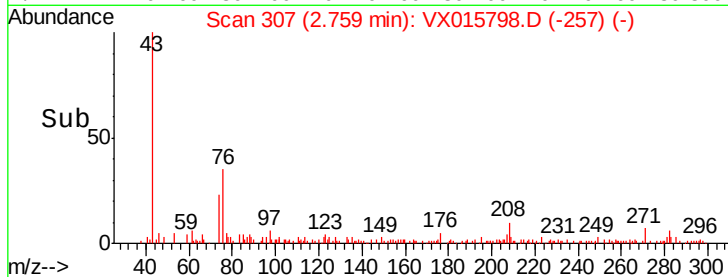
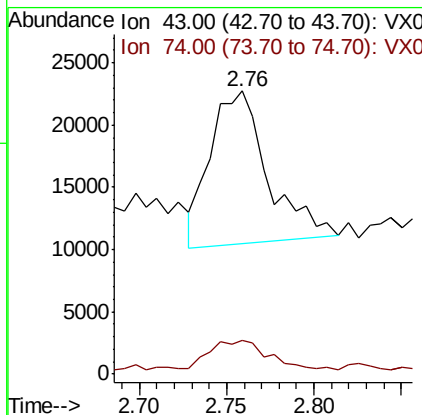
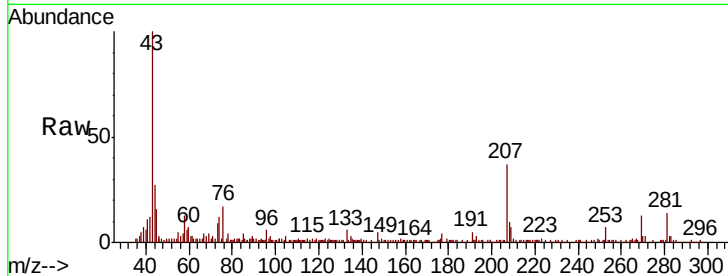




#18
Methvl Acetate
Concen: 1.751 ug/l
RT: 2.76 min Scan# 307
Delta R.T. 0.01 min
Lab File: VX015798.D
Acq: 21 Apr 2020 16:39

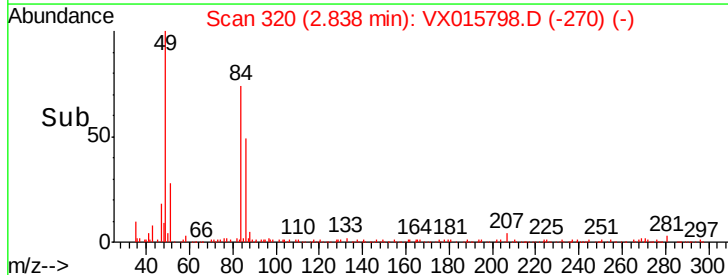
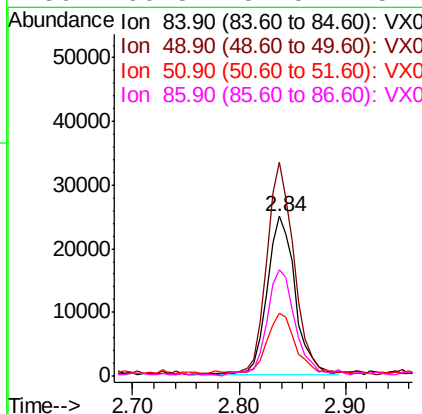
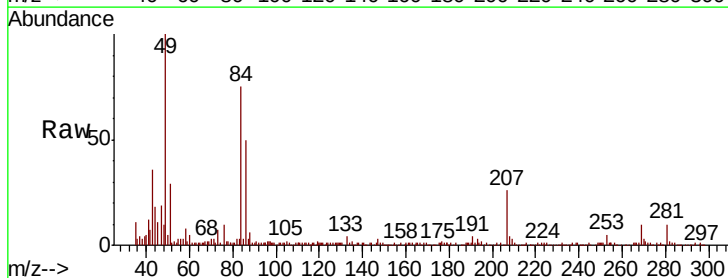
Instrument :
MSVOA_X
ClientSampled :
TP-4-D

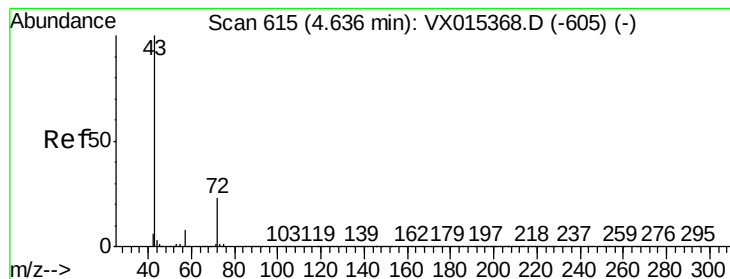
Tot Ion: 43 Resp: 28257
Ion Ratio Lower Upper
43 100
74 19.2 16.5 24.7



#20
Methylene Chloride
Concen: 3.888 ug/l
RT: 2.84 min Scan# 320
Delta R.T. 0.01 min
Lab File: VX015798.D
Acq: 21 Apr 2020 16:39

Tgt Ion: 84 Resp: 45915
Ion Ratio Lower Upper
84 100
49 133.9 111.3 166.9
51 36.4 34.0 51.0
86 66.3 52.5 78.7





#25

2-Butanone

Concen: 3.352 ug/l

RT: 4.65 min Scan# 617

Delta R.T. 0.01 min

Lab File: VX015798.D

Acq: 21 Apr 2020 16:39

Instrument :

MSVOA_X

ClientSampleId :

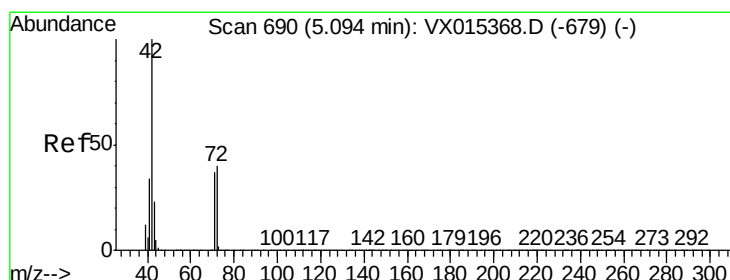
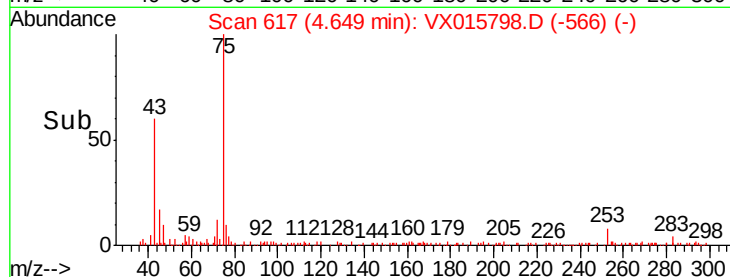
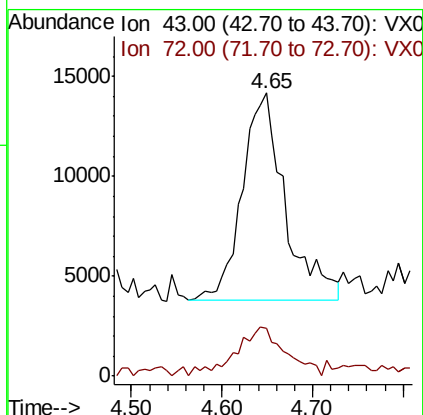
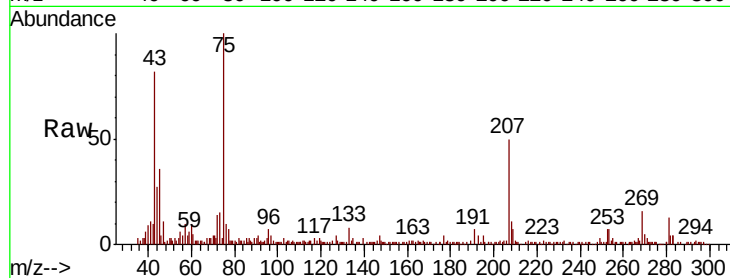
TP-4-D

Tot Ion: 43 Resp: 34085

Ion Ratio Lower Upper

43 100

72 23.2 19.0 28.4



#29

Tetrahydrofuran

Concen: 0.639 ug/l

RT: 5.11 min Scan# 692

Delta R.T. 0.01 min

Lab File: VX015798.D

Acq: 21 Apr 2020 16:39

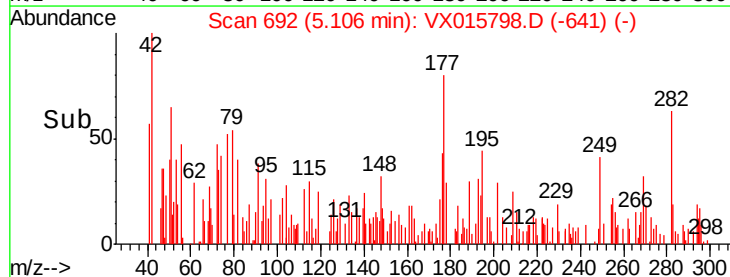
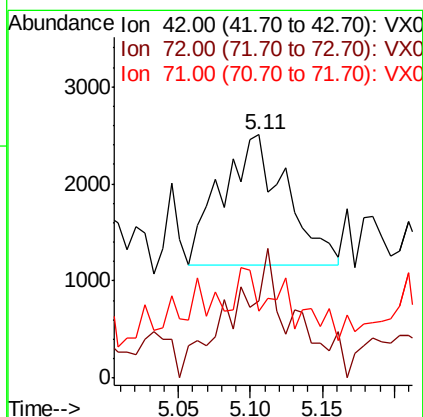
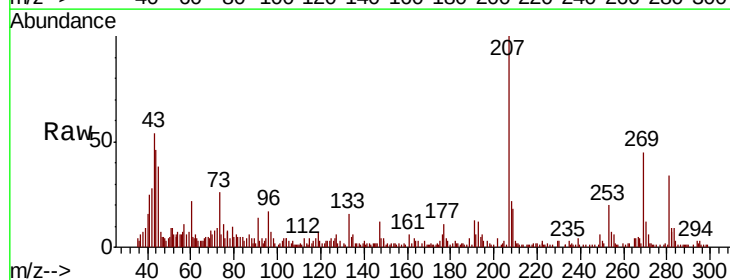
Tgt Ion: 42 Resp: 4178

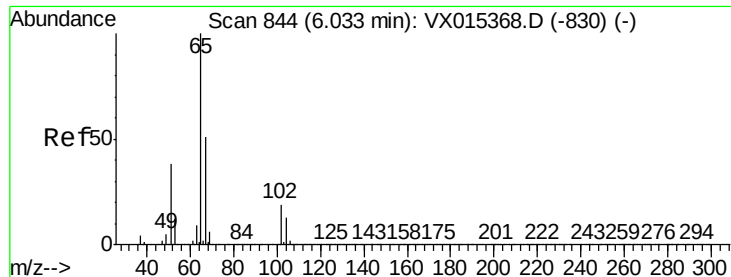
Ion Ratio Lower Upper

42 100

72 67.6 31.7 47.5#

71 8.6 29.6 44.4#

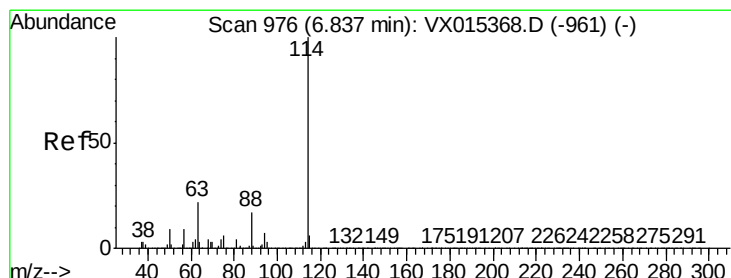
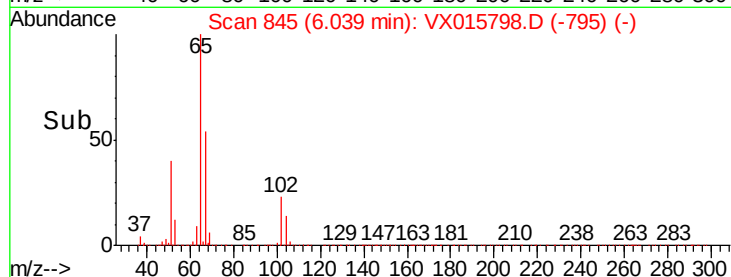
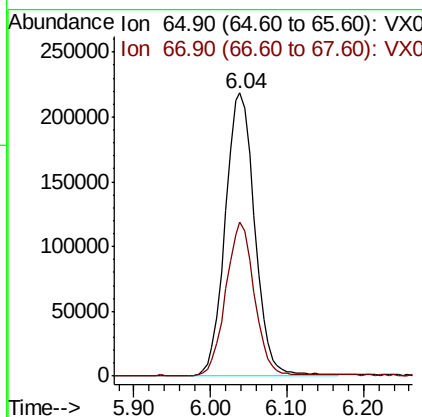
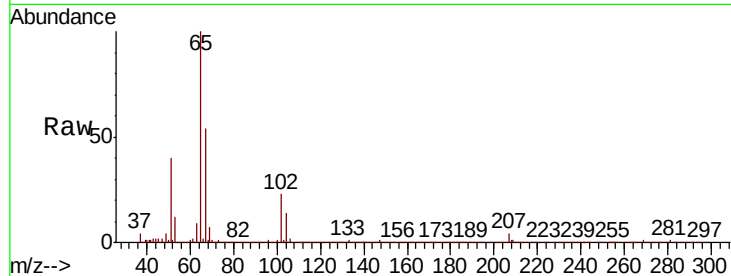




#33
 1,2-Dichloroethane-d4
 Concen: 39.522 ug/l
 RT: 6.04 min Scan# 845
 Delta R.T. 0.01 min
 Lab File: VX015798.D
 Acq: 21 Apr 2020 16:39

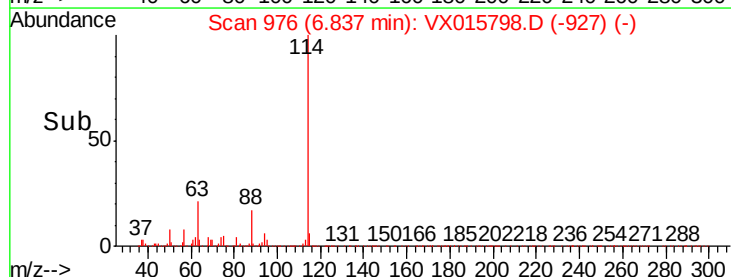
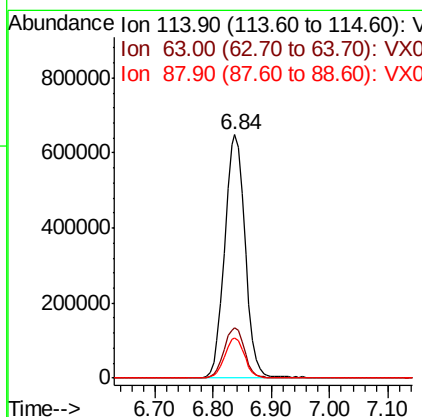
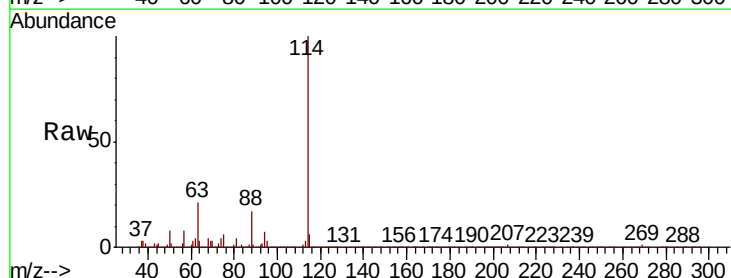
Instrument :
 MSVOA_X
 ClientSampleId :
 TP-4-D

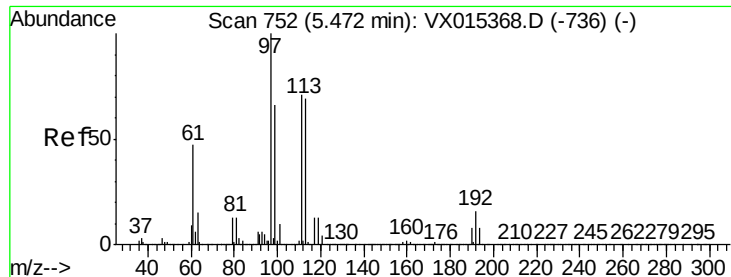
Tot Ion: 65 Resp: 581657
 Ion Ratio Lower Upper
 65 100
 67 52.2 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.84 min Scan# 976
 Delta R.T. 0.00 min
 Lab File: VX015798.D
 Acq: 21 Apr 2020 16:39

Tgt Ion: 114 Resp: 1591906
 Ion Ratio Lower Upper
 114 100
 63 20.7 0.0 44.2
 88 16.6 0.0 33.8

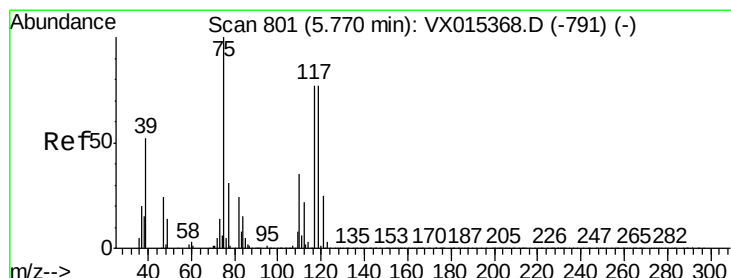
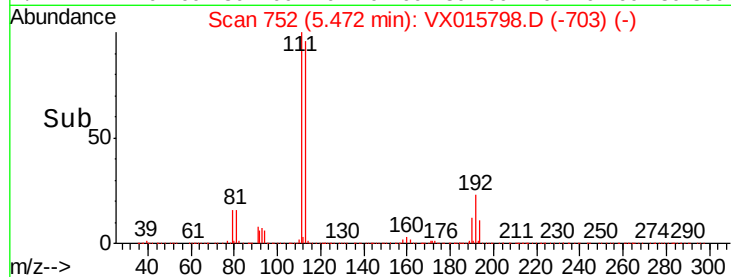
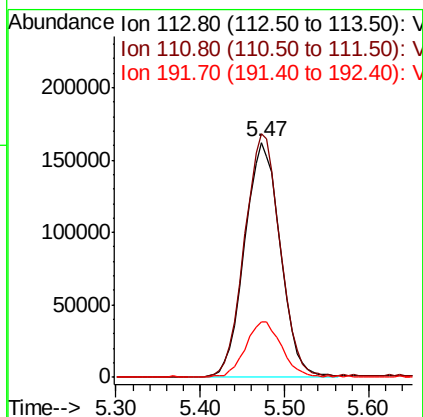
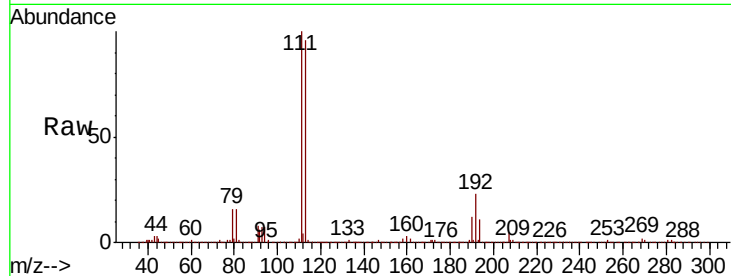




#35
Dibromofluoromethane
Concen: 45.597 ug/l
RT: 5.47 min Scan# 752
Delta R.T. 0.00 min
Lab File: VX015798.D
Acq: 21 Apr 2020 16:39

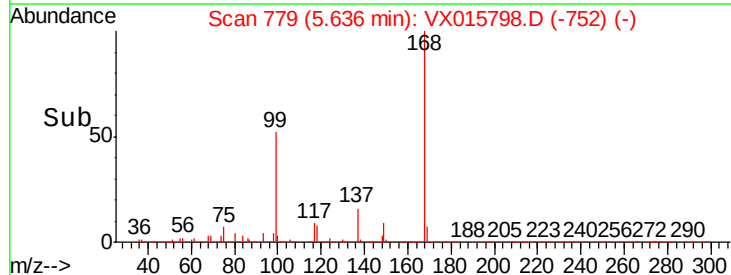
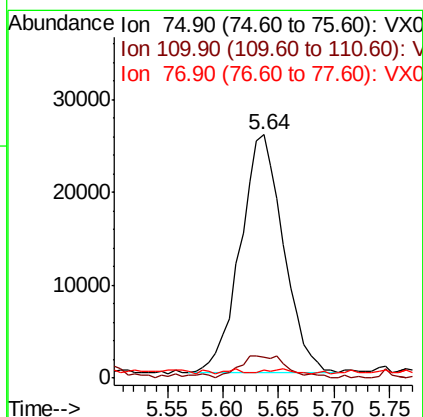
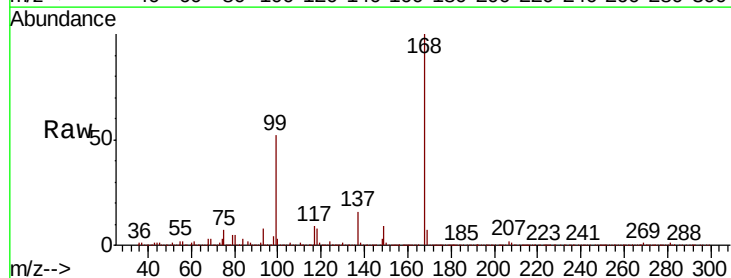
Instrument :
MSVOA_X
ClientSampleId :
TP-4-D

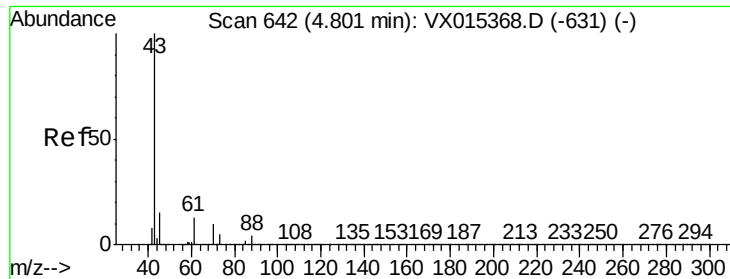
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.5	81.5	122.3
192	23.7	17.8	26.6



#36
1,1-Dichloropropene
Concen: 4.688 ug/l
RT: 5.64 min Scan# 779
Delta R.T. -0.13 min
Lab File: VX015798.D
Acq: 21 Apr 2020 16:39

Tgt Ion	Ratio	Lower	Upper
75	100		
110	10.4	17.1	51.3#
77	1.4	24.6	36.8#

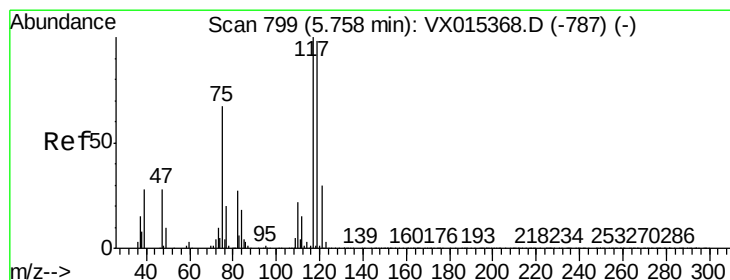
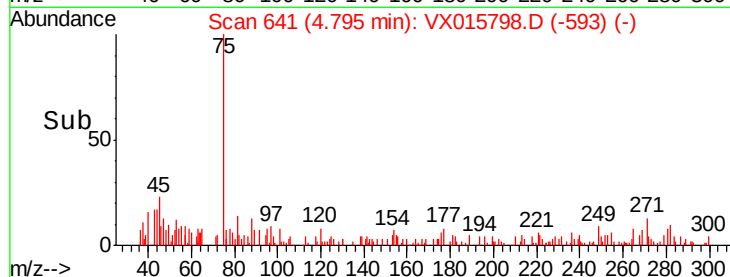
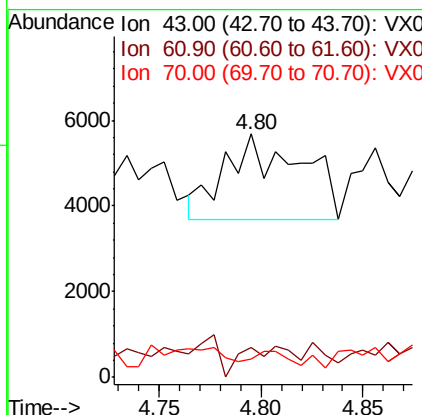
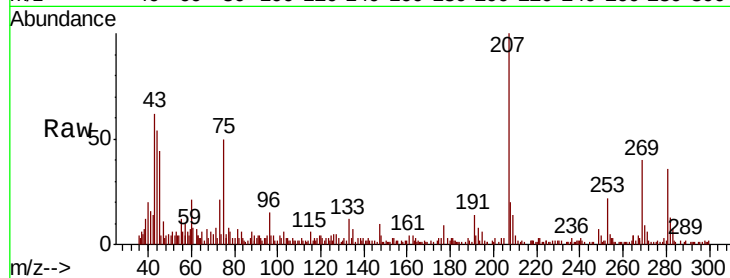




#37
Ethyl Acetate
Concen: 0.266 ug/l
RT: 4.80 min Scan# 641
Delta R.T. -0.01 min
Lab File: VX015798.D
Acq: 21 Apr 2020 16:39

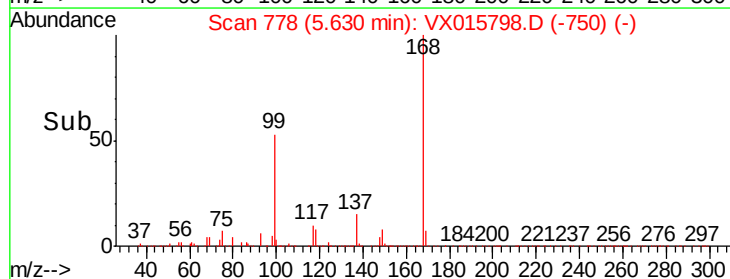
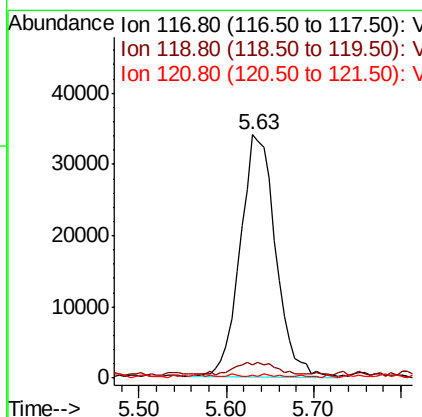
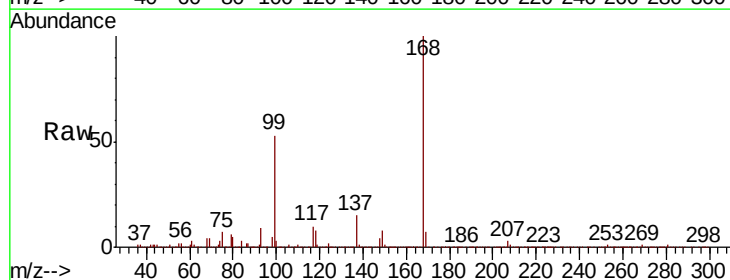
Instrument :
MSVOA_X
ClientSampleId :
TP-4-D

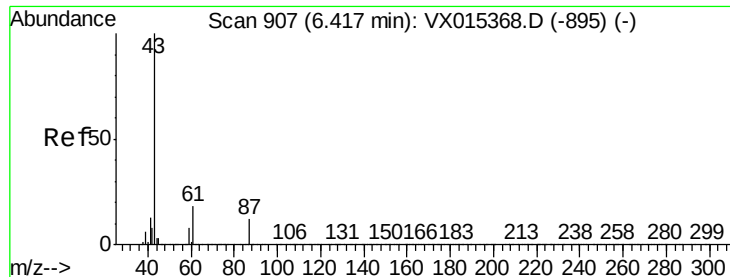
Tot Ion: 43 Resp: 5089
Ion Ratio Lower Upper
43 100
61 12.4 9.9 14.9
70 6.8 8.1 12.1#



#38
Carbon Tetrachloride
Concen: 6.035 ug/l
RT: 5.63 min Scan# 778
Delta R.T. -0.13 min
Lab File: VX015798.D
Acq: 21 Apr 2020 16:39

Tgt Ion: 117 Resp: 95876
Ion Ratio Lower Upper
117 100
119 3.7 78.0 117.0#
121 0.7 23.8 35.8#



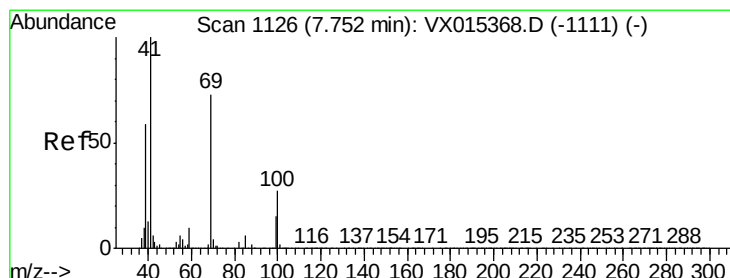
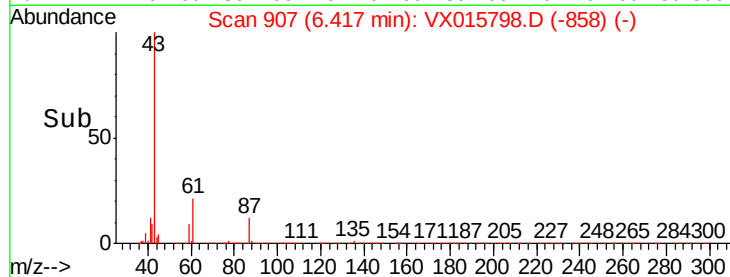
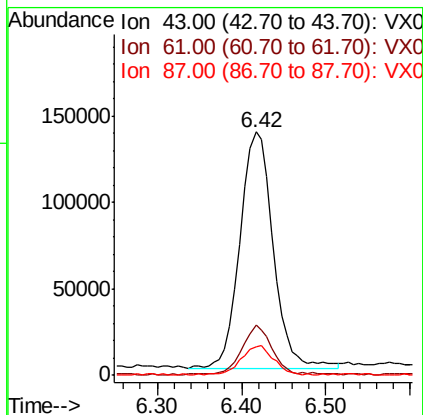
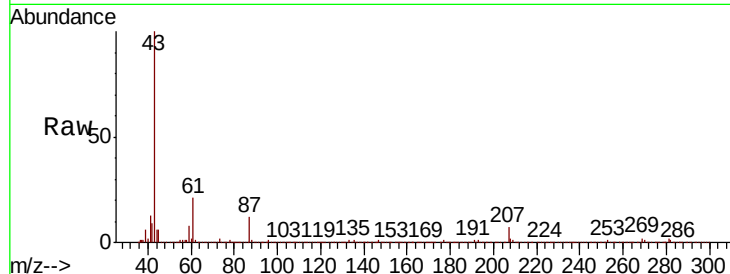


#43

Isopropyl Acetate
 Concen: 11.314 ug/l
 RT: 6.42 min Scan# 907
 Delta R.T. 0.00 min
 Lab File: VX015798.D
 Acq: 21 Apr 2020 16:39

Instrument :
 MSVOA_X
 ClientSampleId :
 TP-4-D

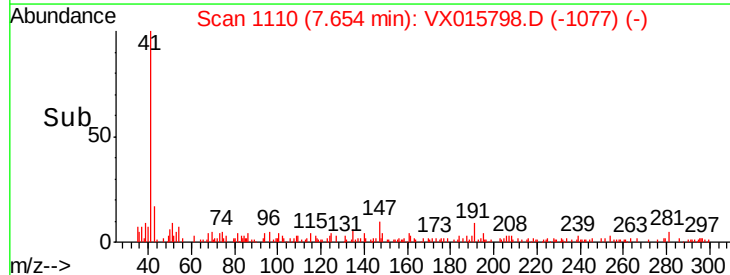
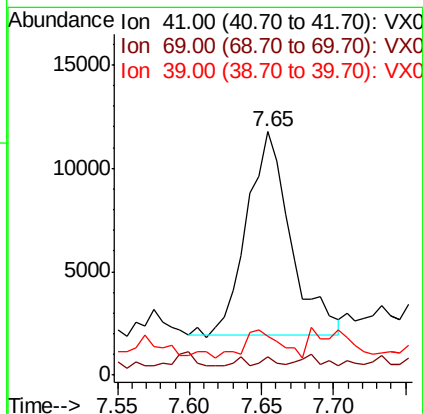
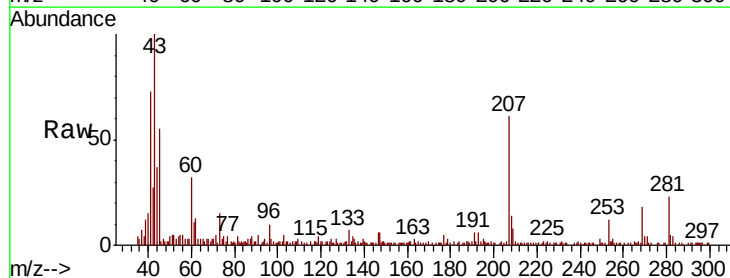
Tot Ion:	43	Resp:	364775
Ion	Ratio	Lower	Upper
43	100		
61	18.1	14.8	22.2
87	11.9	9.4	14.0

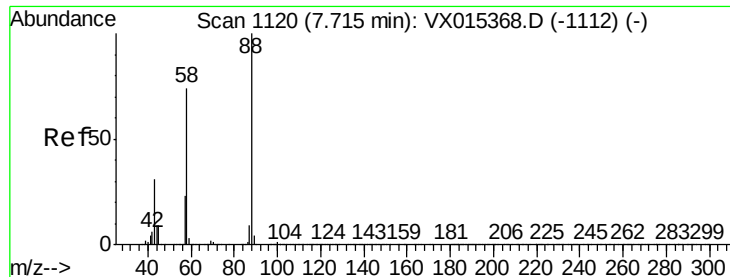


#48

Methyl methacrylate
 Concen: 1.293 ug/l
 RT: 7.65 min Scan# 1110
 Delta R.T. -0.10 min
 Lab File: VX015798.D
 Acq: 21 Apr 2020 16:39

Tgt Ion:	41	Resp:	20819
Ion	Ratio	Lower	Upper
41	100		
69	1.6	56.7	85.1#
39	0.0	46.5	69.7#





#49

1,4-Dioxane

Concen: 17.746 ug/l

RT: 7.74 min Scan# 1124

Delta R.T. 0.02 min

Lab File: VX015798.D

Acq: 21 Apr 2020 16:39

Instrument :

MSVOA_X

ClientSampled :

TP-4-D

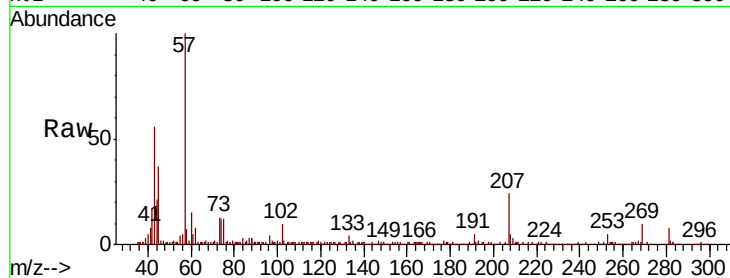
Tot Ion: 88 Resp: 5331

Ion Ratio Lower Upper

88 100

43 0.0 30.1 45.1#

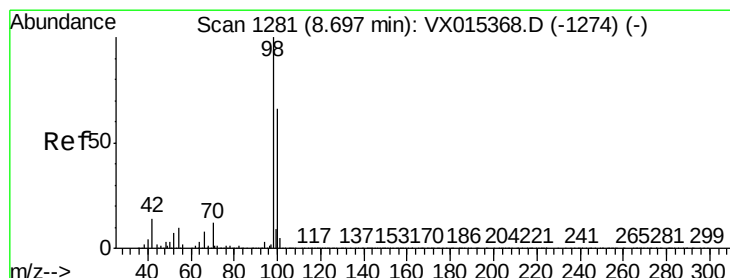
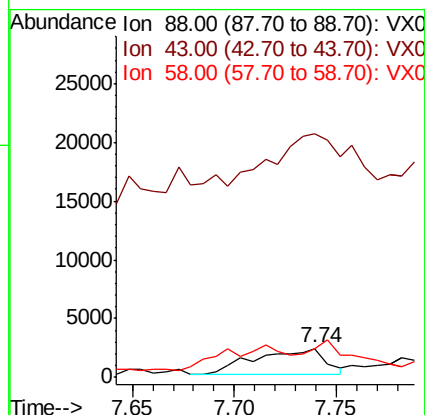
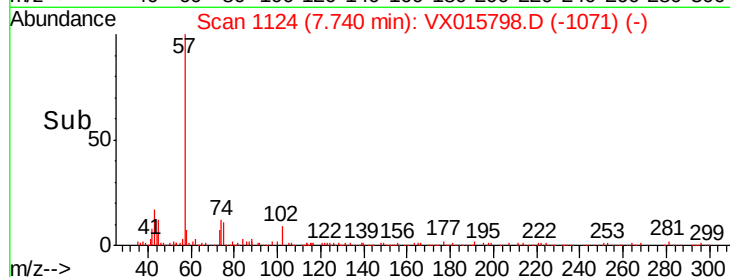
58 57.7 60.6 90.8#



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



#50

Toluene-d8

Concen: 50.824 ug/l

RT: 8.70 min Scan# 1281

Delta R.T. 0.00 min

Lab File: VX015798.D

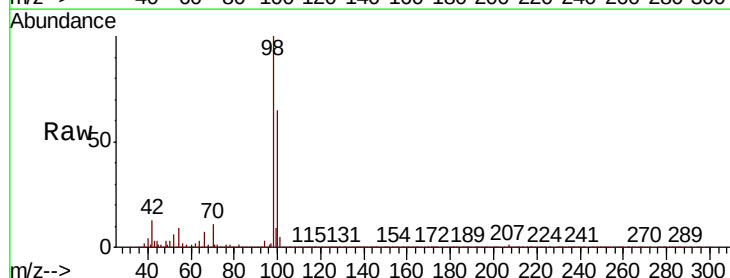
Acq: 21 Apr 2020 16:39

Tgt Ion: 98 Resp: 1904129

Ion Ratio Lower Upper

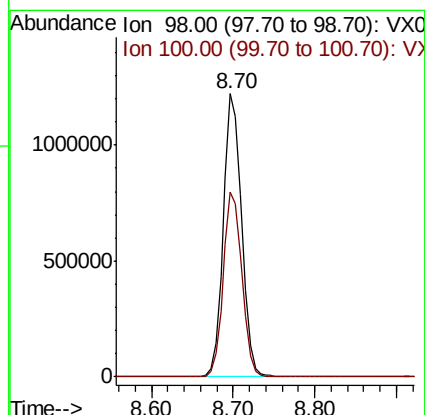
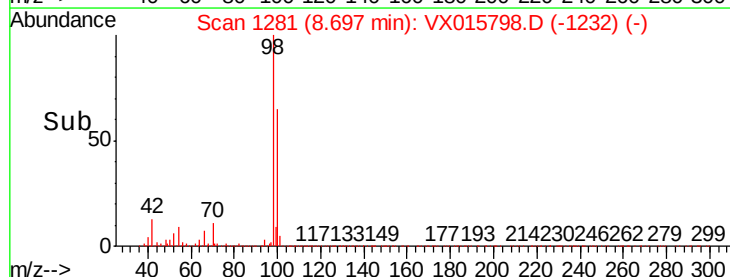
98 100

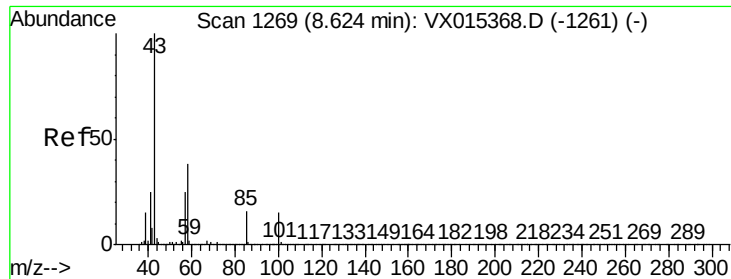
100 66.6 53.5 80.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

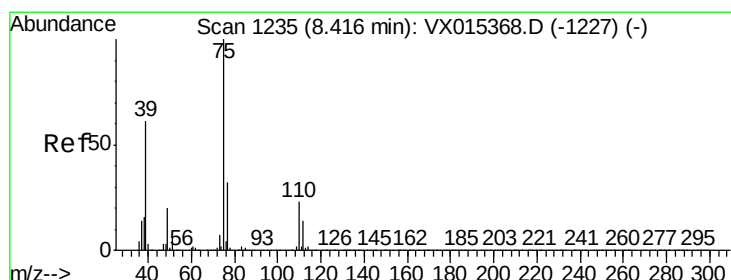
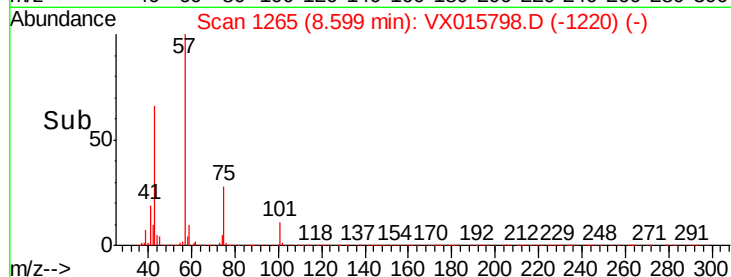
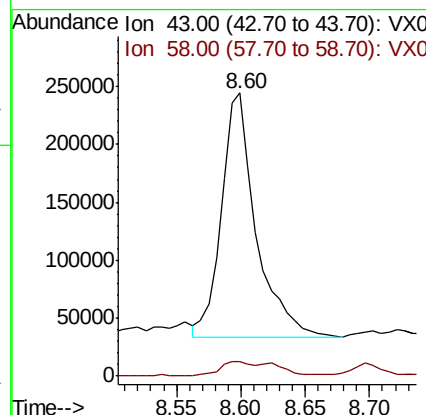
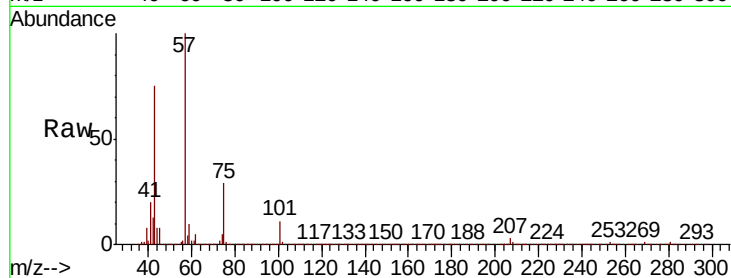




#51
4-Methyl-2-Pentanone
Concen: 21.582 ug/l
RT: 8.60 min Scan# 1265
Delta R.T. -0.02 min
Lab File: VX015798.D
Acq: 21 Apr 2020 16:39

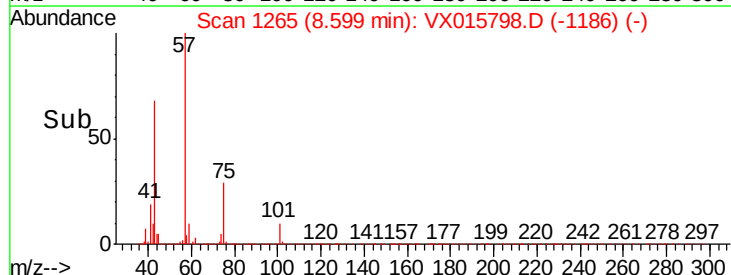
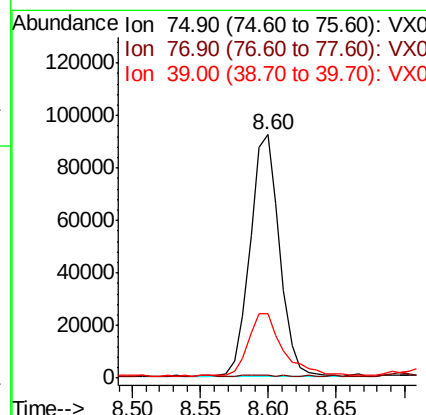
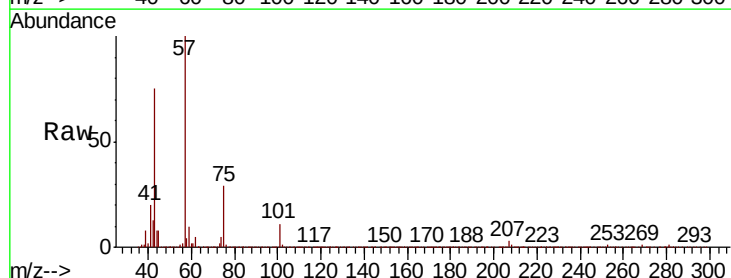
Instrument :
MSVOA_X
ClientSampled :
TP-4-D

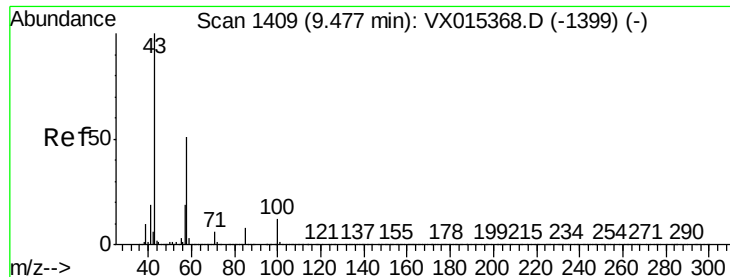
Tot Ion: 43 Resp: 394333
Ion Ratio Lower Upper
43 100
58 5.4 29.7 44.5#



#54
cis-1,3-Dichloropropene
Concen: 7.082 ug/l
RT: 8.60 min Scan# 1265
Delta R.T. 0.18 min
Lab File: VX015798.D
Acq: 21 Apr 2020 16:39

Tgt Ion: 75 Resp: 139005
Ion Ratio Lower Upper
75 100
77 0.6 25.8 38.6#
39 25.7 49.0 73.4#

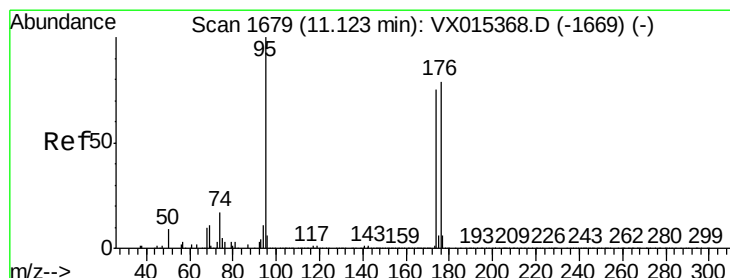
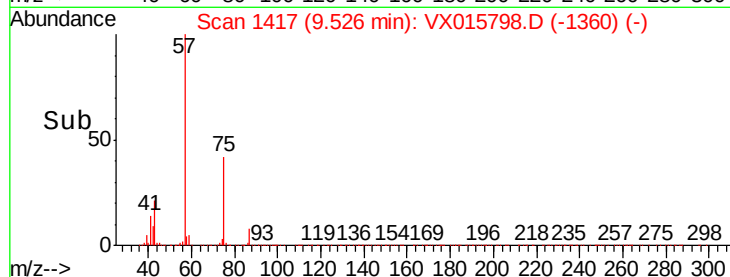
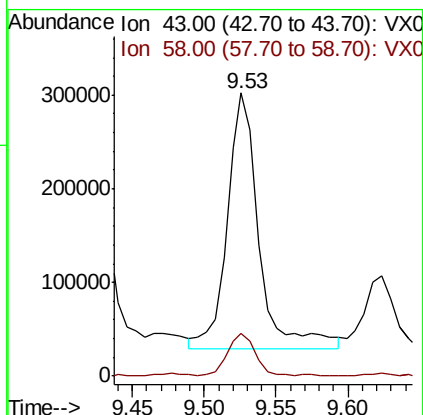
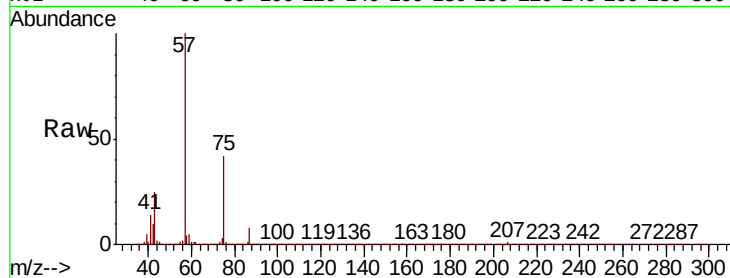




#59
2-Hexanone
Concen: 30.489 ug/l
RT: 9.53 min Scan# 1417
Delta R.T. 0.05 min
Lab File: VX015798.D
Acq: 21 Apr 2020 16:39

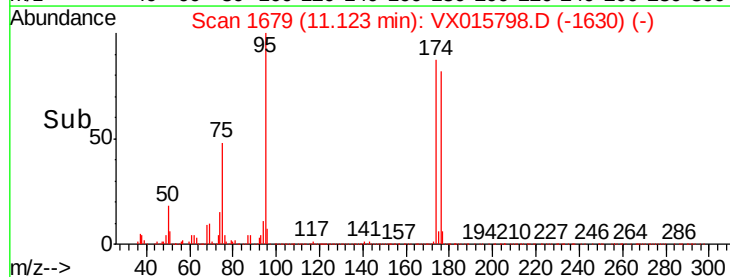
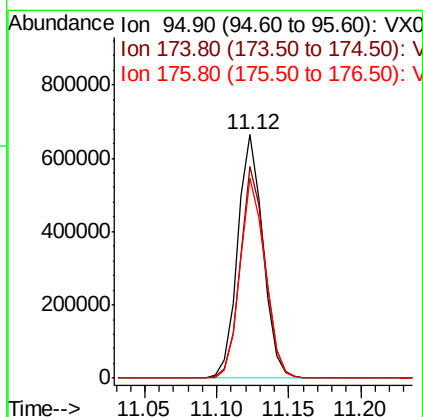
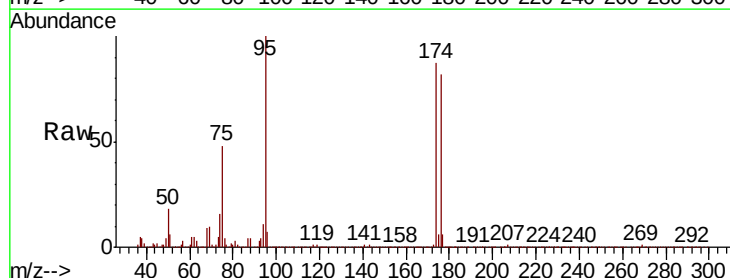
Instrument :
MSVOA_X
ClientSampleId :
TP-4-D

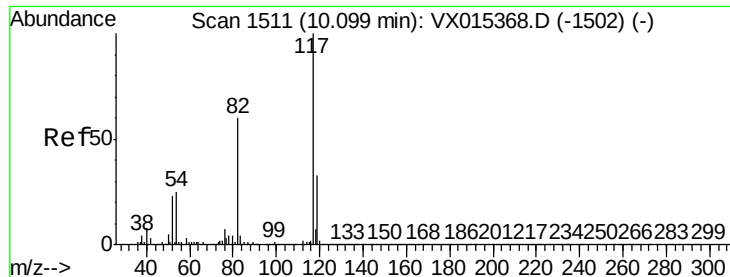
Tot Ion: 43 Resp: 420566
Ion Ratio Lower Upper
43 100
58 14.3 25.6 76.6#



#62
4-Bromofluorobenzene
Concen: 53.229 ug/l
RT: 11.12 min Scan# 1679
Delta R.T. 0.00 min
Lab File: VX015798.D
Acq: 21 Apr 2020 16:39

Tgt Ion: 95 Resp: 810453
Ion Ratio Lower Upper
95 100
174 85.4 0.0 158.6
176 81.8 0.0 159.0

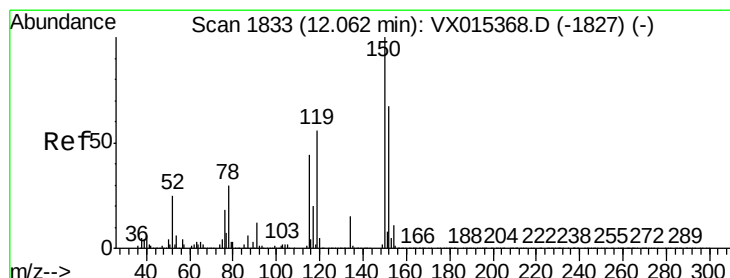
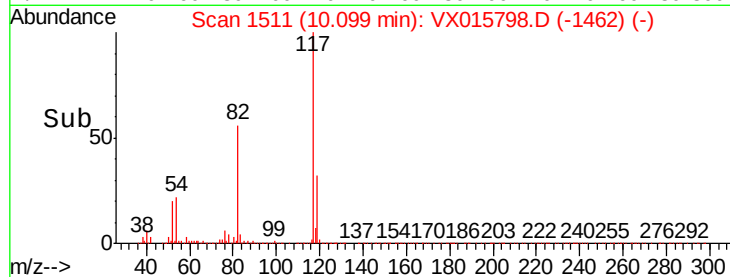
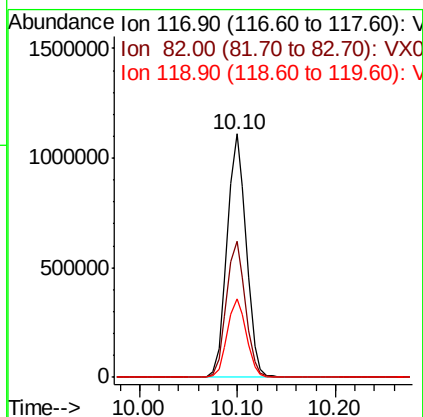
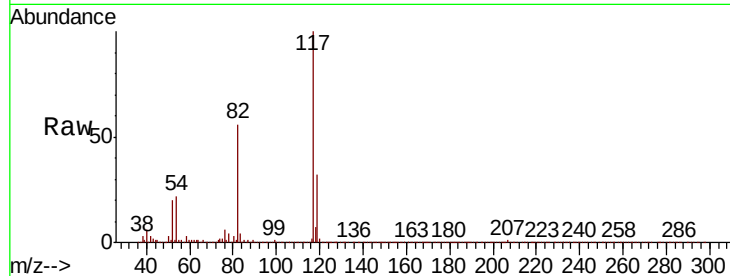




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1511
Delta R.T. 0.00 min
Lab File: VX015798.D
Acq: 21 Apr 2020 16:39

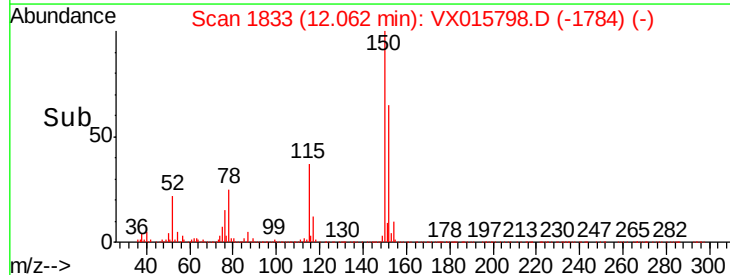
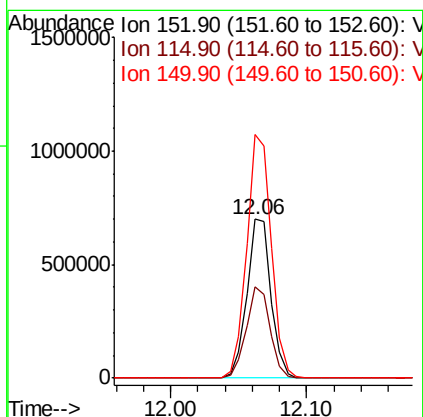
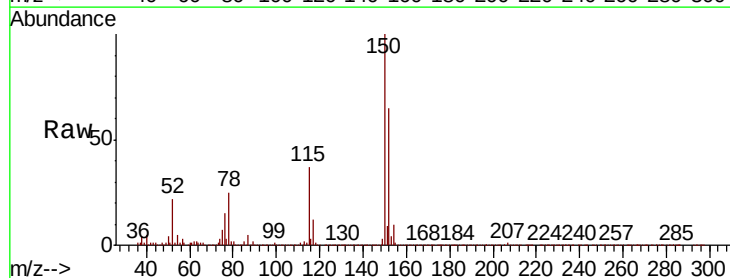
Instrument :
MSVOA_X
ClientSampleId :
TP-4-D

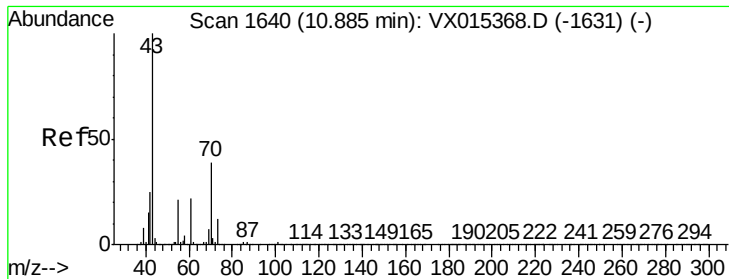
Tot Ion:117 Resp: 1511301
Ion Ratio Lower Upper
117 100
82 55.7 47.8 71.8
119 31.9 26.8 40.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1833
Delta R.T. 0.00 min
Lab File: VX015798.D
Acq: 21 Apr 2020 16:39

Tgt Ion:152 Resp: 867008
Ion Ratio Lower Upper
152 100
115 56.8 39.0 116.9
150 156.1 0.0 340.8





#74

N-amvl acetate

Concen: 0.579 ug/l

RT: 10.92 min Scan# 1646

Delta R.T. 0.04 min

Lab File: VX015798.D

Acq: 21 Apr 2020 16:39

Instrument :

MSVOA_X

ClientSampled :

TP-4-D

Tot Ion: 43 Resp: 18280

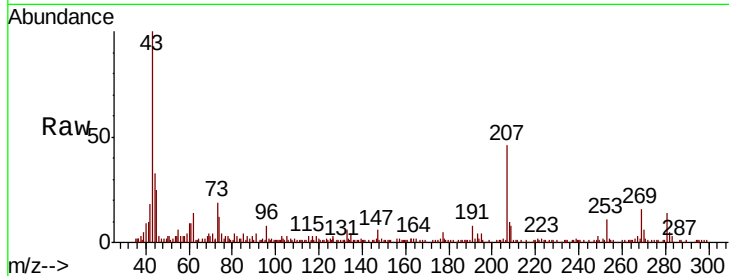
Ion Ratio Lower Upper

43 100

70 0.0 30.2 45.4#

55 2.6 16.8 25.2#

61 12.8 18.2 27.2#

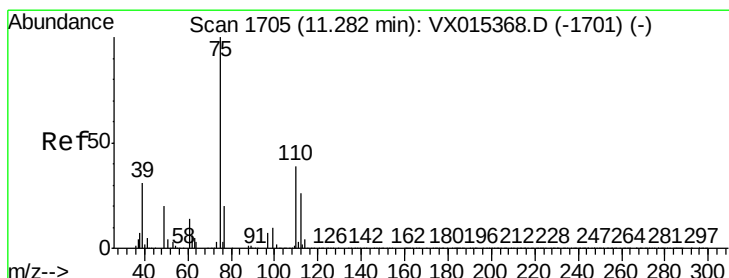
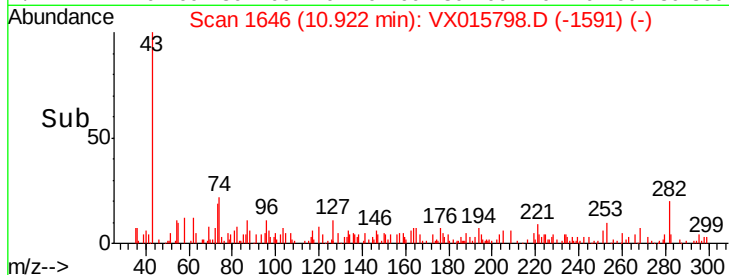
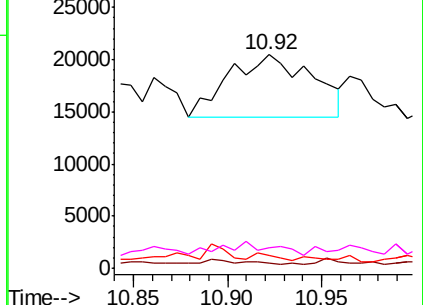


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0



#76

1,2,3-Trichloropropane

Concen: 21.838 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. -0.16 min

Lab File: VX015798.D

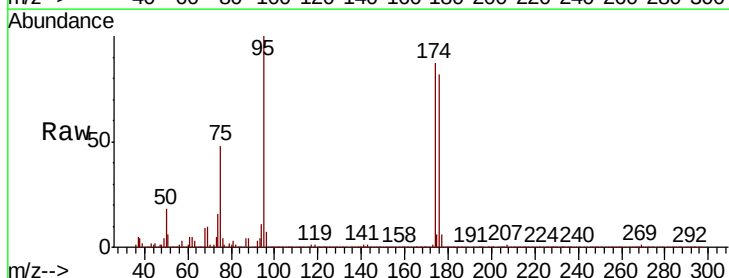
Acq: 21 Apr 2020 16:39

Tgt Ion: 75 Resp: 389356

Ion Ratio Lower Upper

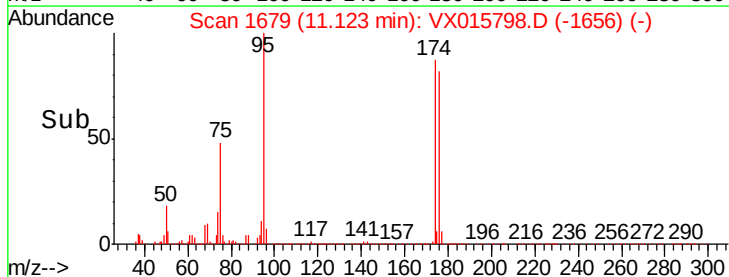
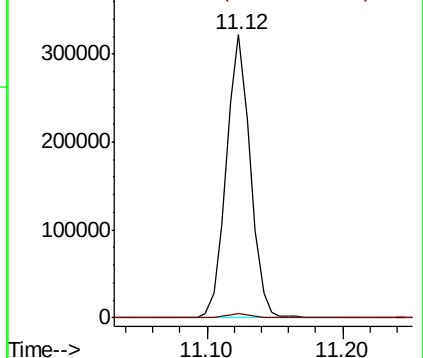
75 100

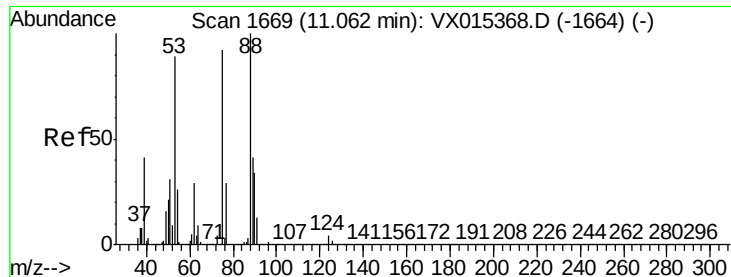
77 1.3 21.2 63.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 52.399 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. 0.06 min

Lab File: VX015798.D

Acq: 21 Apr 2020 16:39

Instrument :

MSVOA_X

ClientSampleId :

TP-4-D

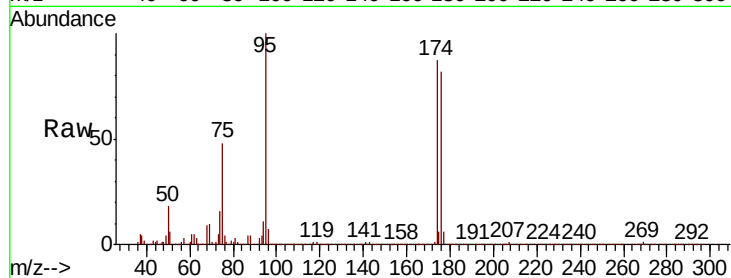
Tot Ion: 75 Resp: 389356

Ion Ratio Lower Upper

75 100

53 0.6 80.1 120.1#

89 0.3 36.1 54.1#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

