

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX040220\
 Data File : VX015498.D
 Acq On : 02 Apr 2020 21:24
 Operator : JC/SP
 Sample : L2107-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 S32-MULTI-IDW01

Quant Time: Apr 03 08:05:41 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	1090920	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	1723595	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	1664126	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	891871	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	729099	47.39	ug/l	0.00
Spiked Amount			Recovery	=	94.78%	
35) Dibromofluoromethane	5.47	113	547046	49.65	ug/l	0.00
Spiked Amount			Recovery	=	99.30%	
50) Toluene-d8	8.70	98	2089864	51.52	ug/l	0.00
Spiked Amount			Recovery	=	103.04%	
62) 4-Bromofluorobenzene	11.12	95	915619	55.54	ug/l	0.00
Spiked Amount			Recovery	=	111.08%	

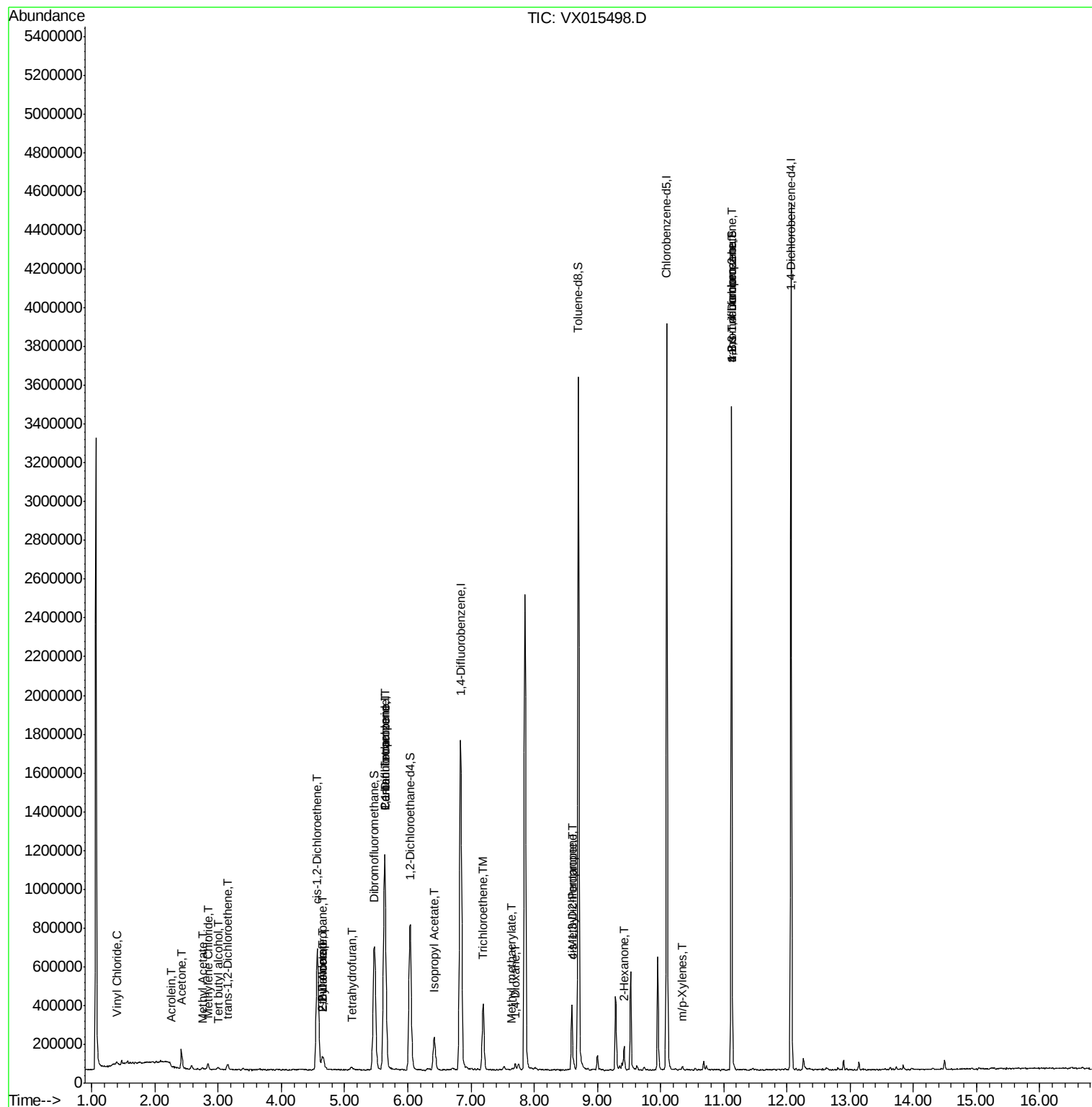
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.39	62	8490	0.755	ug/l	93
5) Bromomethane	1.64	94	338	Below Cal	#	3
11) Tert butyl alcohol	3.00	59	11547	3.135	ug/l	97
13) Acrolein	2.27	56	1494	0.712	ug/l #	63
16) Acetone	2.42	43	112768	17.059	ug/l	98
18) Methyl Acetate	2.75	43	12423	0.736	ug/l #	87
20) Methylene Chloride	2.83	84	12226	0.990	ug/l	88
21) trans-1,2-Dichloroethene	3.15	96	12525	1.096	ug/l	98
25) 2-Butanone	4.65	43	36889	3.470	ug/l #	87
26) 2,2-Dichloropropane	4.65	77	4356	0.236	ug/l	82
27) cis-1,2-Dichloroethene	4.58	96	385706	29.166	ug/l	93
29) Tetrahydrofuran	5.11	42	16487	2.412	ug/l	94
36) 1,1-Dichloropropene	5.64	75	78957	4.972	ug/l #	53
37) Ethyl Acetate	4.65	43	37070	1.793	ug/l #	73
38) Carbon Tetrachloride	5.63	117	102526	5.961	ug/l #	16
43) Isopropyl Acetate	6.42	43	249602	7.151	ug/l	98
44) Trichloroethene	7.19	130	127118	10.019	ug/l	96
48) Methyl methacrylate	7.65	41	17072	0.979	ug/l #	20
49) 1,4-Dioxane	7.71	88	428	1.316	ug/l #	1
51) 4-Methyl-2-Pentanone	8.60	43	138568	7.005	ug/l #	47
54) cis-1,3-Dichloropropene	8.60	75	54082	2.545	ug/l #	54
59) 2-Hexanone	9.42	43	94873	6.352	ug/l #	27
68) m/p-Xylenes	10.35	106	4772	0.218	ug/l	99
76) 1,2,3-Trichloropropane	11.12	75	468255	25.531	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.12	75	468255	61.261	ug/l #	10

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

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Quant Time: Apr 03 08:05:41 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: VX015498.D

Acq: 02 Apr 2020 21:24

Instrument :

MSVOA_X

ClientSampleId :

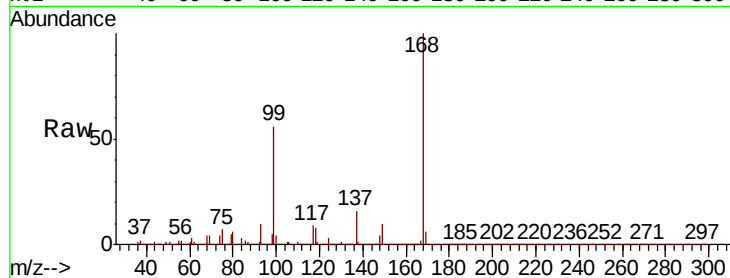
S32-MULTI-IDW01

Tot Ion:168 Resp: 1090920

Ion Ratio Lower Upper

168 100

99 56.3 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

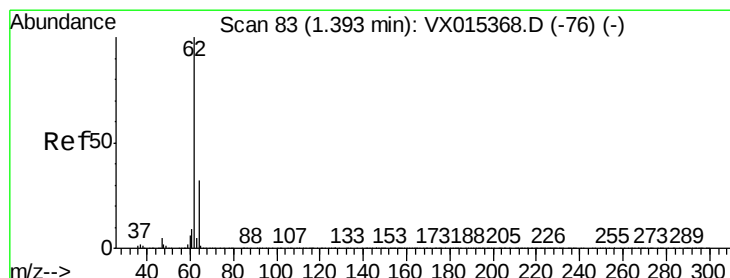
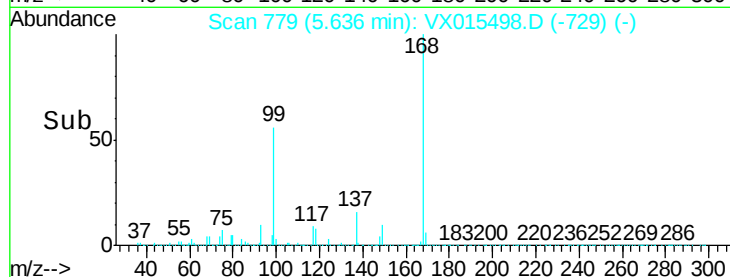
200000

100000

0

Time-->

5.50 5.60 5.70 5.80



#4

Vinyl Chloride

Concen: 0.755 ug/l

RT: 1.39 min Scan# 83

Delta R.T. -0.00 min

Lab File: VX015498.D

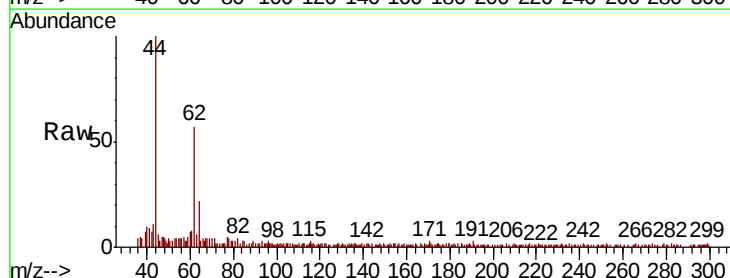
Acq: 02 Apr 2020 21:24

Tgt Ion: 62 Resp: 8490

Ion Ratio Lower Upper

62 100

64 28.7 26.0 39.0



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

10000

8000

6000

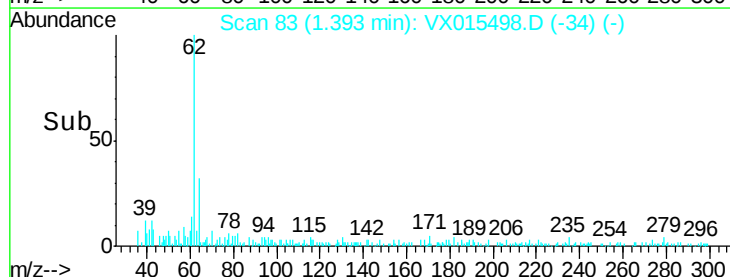
4000

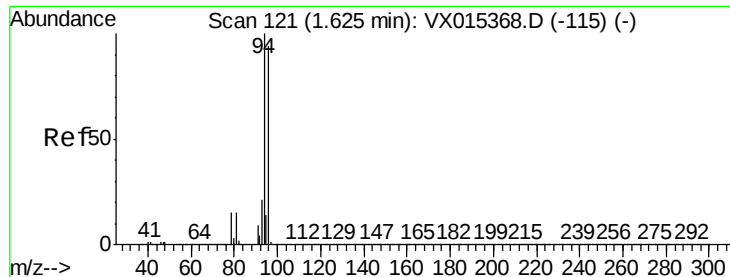
2000

0

Time-->

1.35 1.40





#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 123

Delta R.T. 0.01 min

Lab File: VX015498.D

Acq: 02 Apr 2020 21:24

Instrument :

MSVOA_X

ClientSampleId :

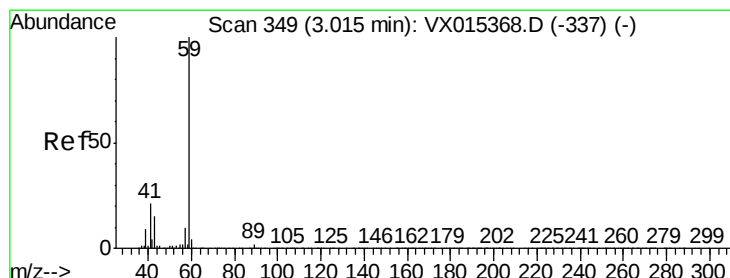
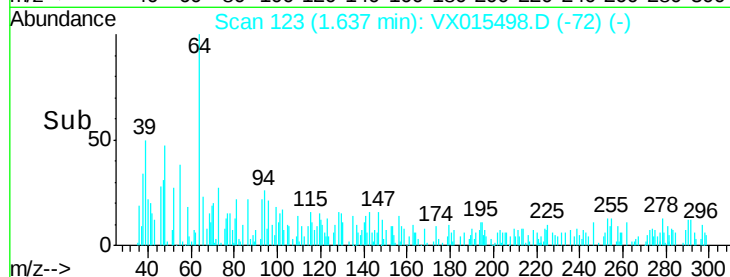
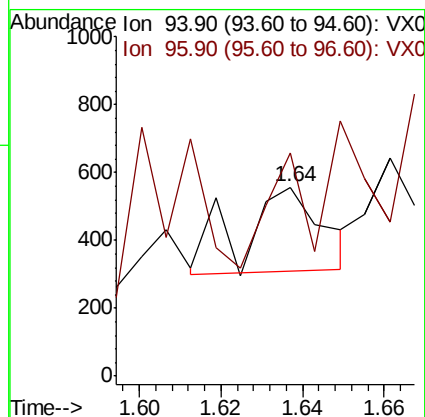
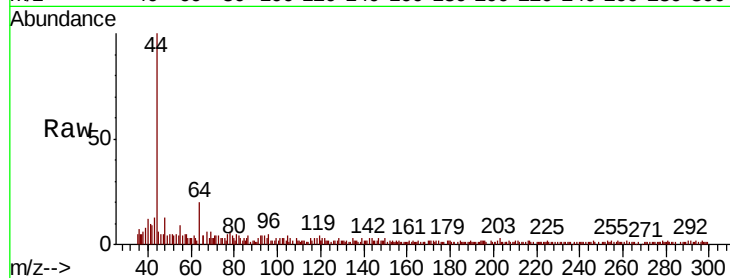
S32-MULTI-IDW01

Tot Ion: 94 Resp: 338

Ion Ratio Lower Upper

94 100

96 0.0 74.8 112.2#



#11

Tert butyl alcohol

Concen: 3.135 ug/l

RT: 3.00 min Scan# 347

Delta R.T. -0.01 min

Lab File: VX015498.D

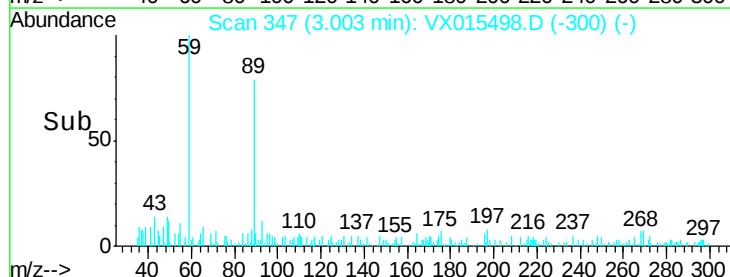
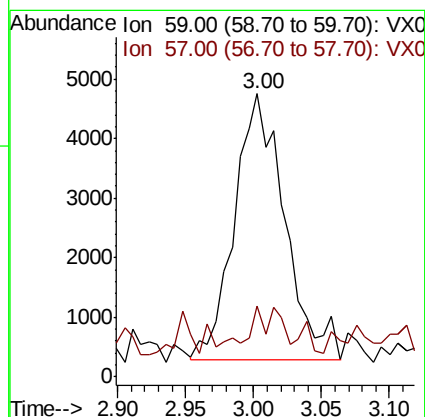
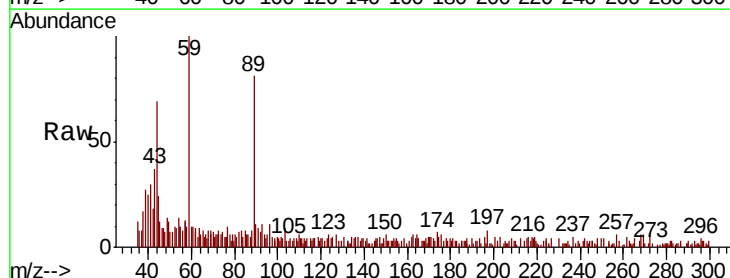
Acq: 02 Apr 2020 21:24

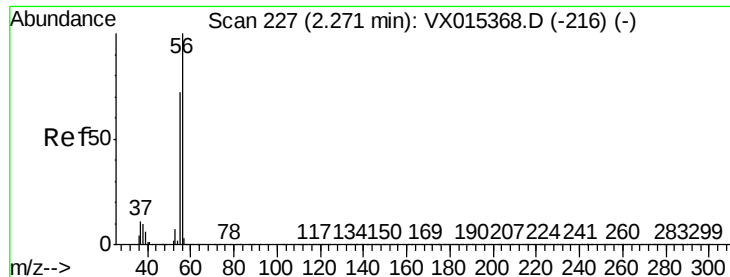
Tgt Ion: 59 Resp: 11547

Ion Ratio Lower Upper

59 100

57 8.9 8.1 12.1

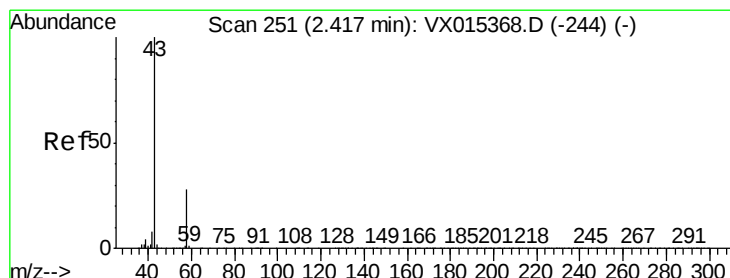
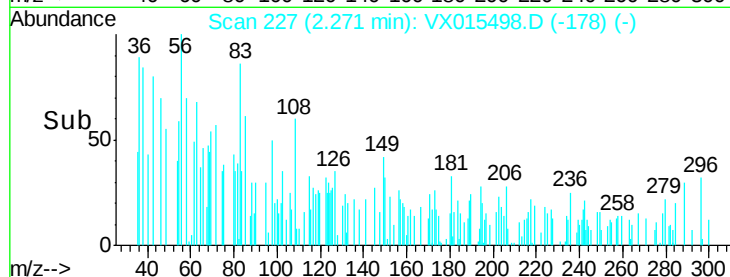
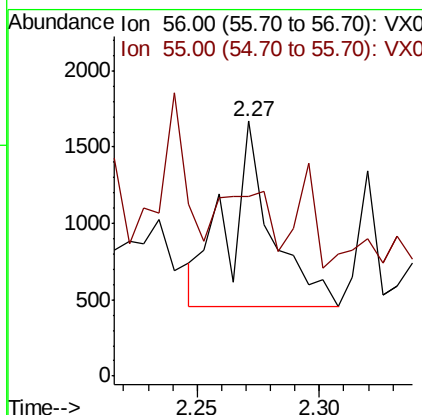




#13
Acrolein
Concen: 0.712 ug/l
RT: 2.27 min Scan# 227
Delta R.T. -0.00 min
Lab File: VX015498.D
Acq: 02 Apr 2020 21:24

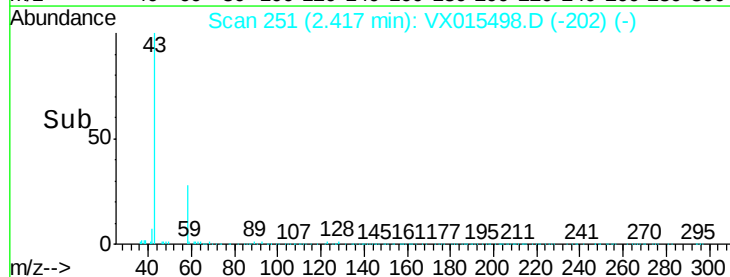
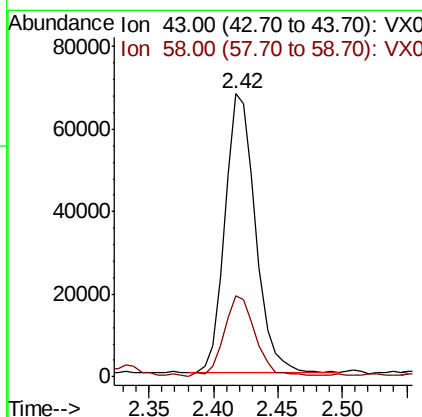
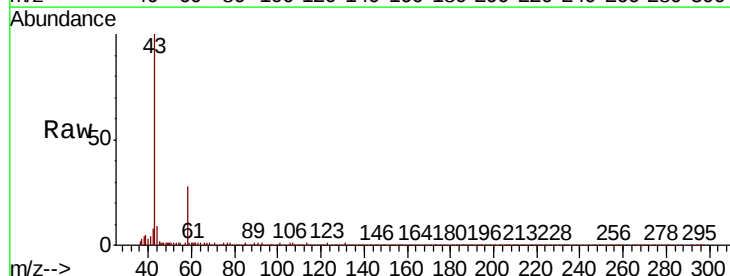
Instrument :
MSVOA_X
ClientSampleId :
S32-MULTI-IDW01

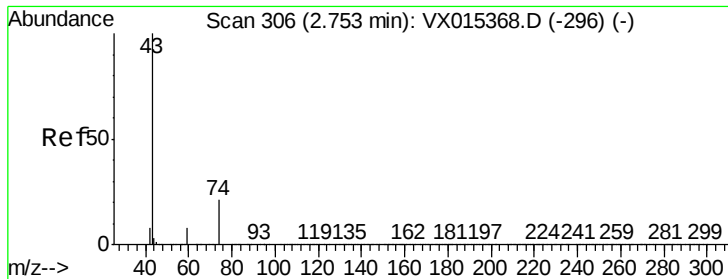
Tot Ion: 56 Resp: 1494
Ion Ratio Lower Upper
56 100
55 40.6 57.0 85.4#



#16
Acetone
Concen: 17.059 ug/l
RT: 2.42 min Scan# 251
Delta R.T. -0.00 min
Lab File: VX015498.D
Acq: 02 Apr 2020 21:24

Tgt Ion: 43 Resp: 112768
Ion Ratio Lower Upper
43 100
58 28.9 22.1 33.1

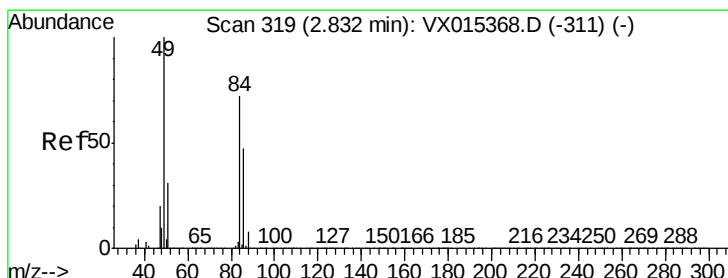
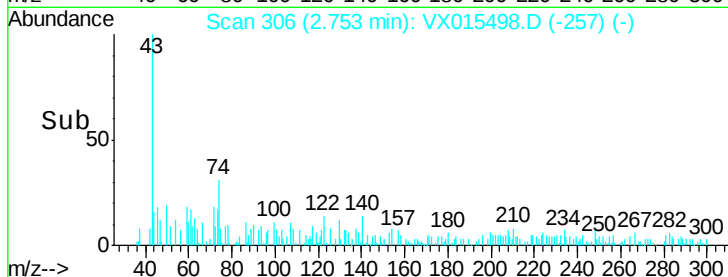
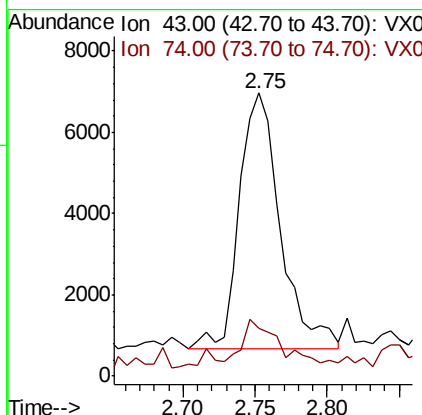
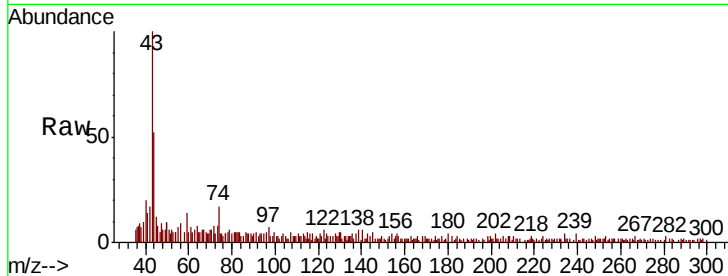




#18
Methyl Acetate
Concen: 0.736 ug/l
RT: 2.75 min Scan# 306
Delta R.T. -0.00 min
Lab File: VX015498.D
Acq: 02 Apr 2020 21:24

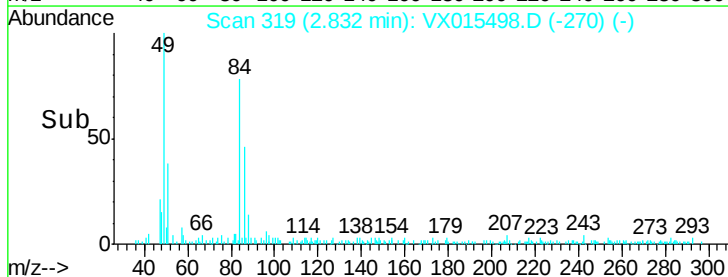
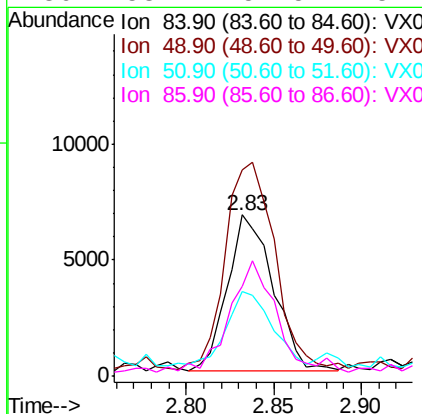
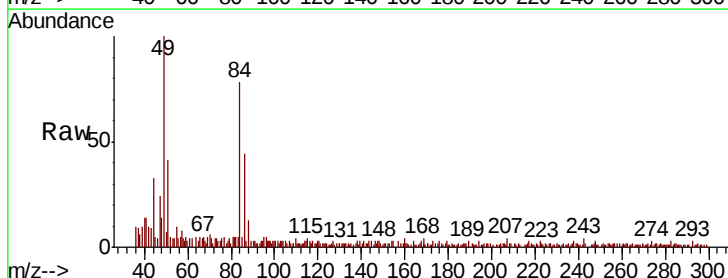
Instrument :
MSVOA_X
ClientSampleId :
S32-MULTI-IDW01

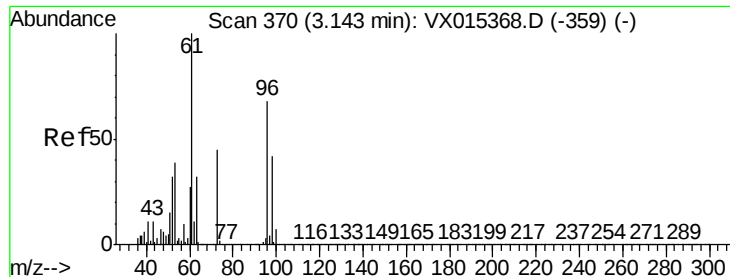
Tot Ion: 43 Resp: 12423
Ion Ratio Lower Upper
43 100
74 14.7 16.5 24.7#



#20
Methylene Chloride
Concen: 0.990 ug/l
RT: 2.83 min Scan# 319
Delta R.T. -0.00 min
Lab File: VX015498.D
Acq: 02 Apr 2020 21:24

Tgt Ion: 84 Resp: 12226
Ion Ratio Lower Upper
84 100
49 124.2 111.3 166.9
51 46.7 34.0 51.0
86 53.1 52.5 78.7





#21

trans-1,2-Dichloroethene

Concen: 1.096 ug/l

RT: 3.15 min Scan# 371

Delta R.T. 0.01 min

Lab File: VX015498.D

Acq: 02 Apr 2020 21:24

Instrument :

MSVOA_X

ClientSampleId :

S32-MULTI-IDW01

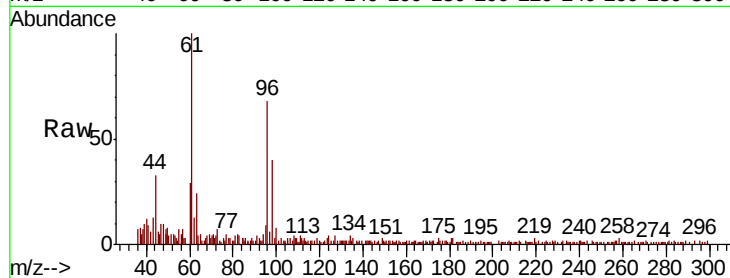
Tot Ion: 96 Resp: 12525

Ion Ratio Lower Upper

96 100

61 147.9 116.9 175.3

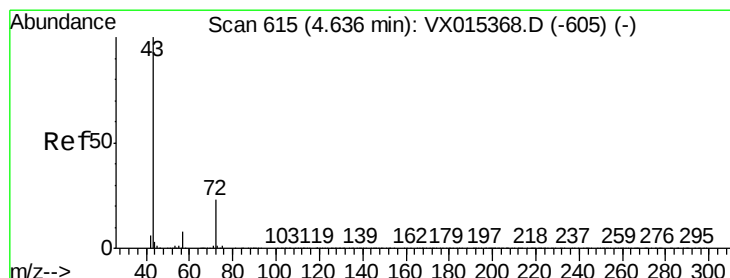
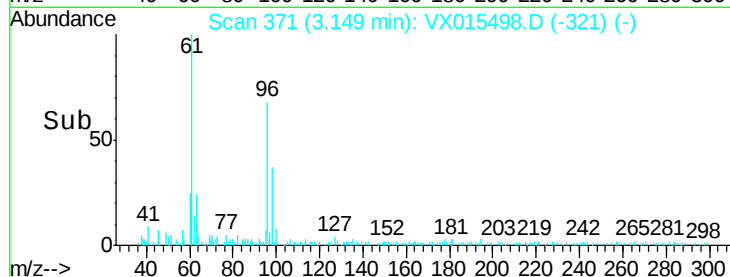
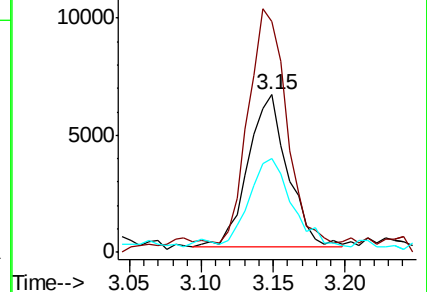
98 58.4 48.6 73.0



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#25

2-Butanone

Concen: 3.470 ug/l

RT: 4.65 min Scan# 617

Delta R.T. 0.01 min

Lab File: VX015498.D

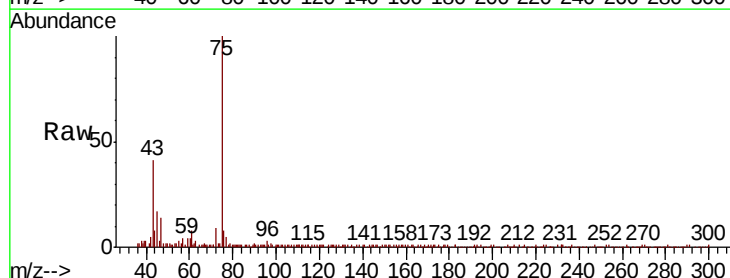
Acq: 02 Apr 2020 21:24

Tgt Ion: 43 Resp: 36889

Ion Ratio Lower Upper

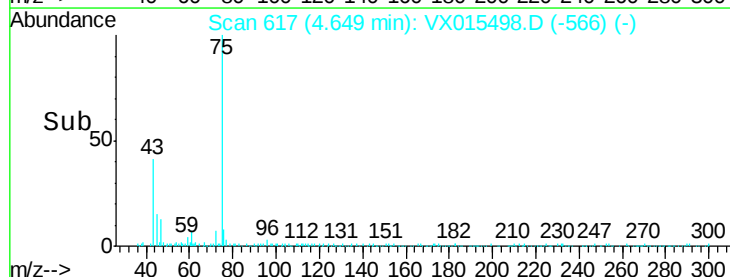
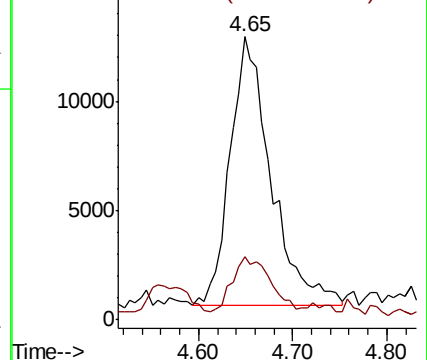
43 100

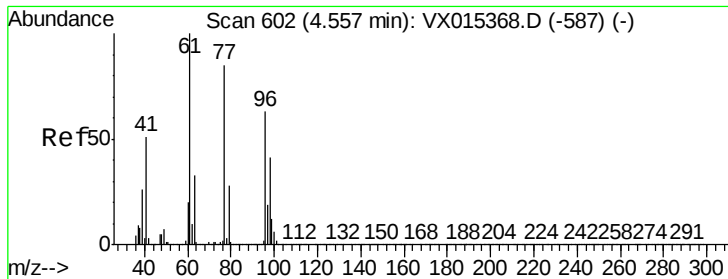
72 17.1 19.0 28.4#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0





#26

2,2-Dichloropropane

Concen: 0.236 ug/l

RT: 4.65 min Scan# 617

Delta R.T. 0.09 min

Lab File: VX015498.D

Acq: 02 Apr 2020 21:24

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ClientSampleId :

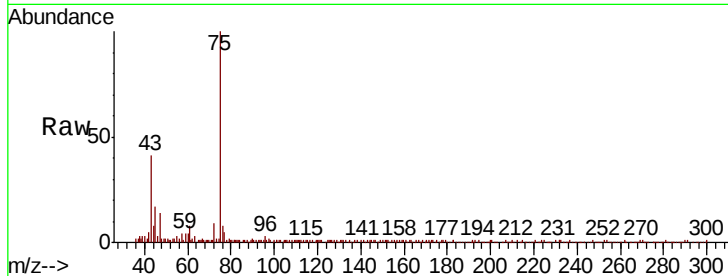
S32-MULTI-IDW01

Tot Ion: 77 Resp: 4356

Ion Ratio Lower Upper

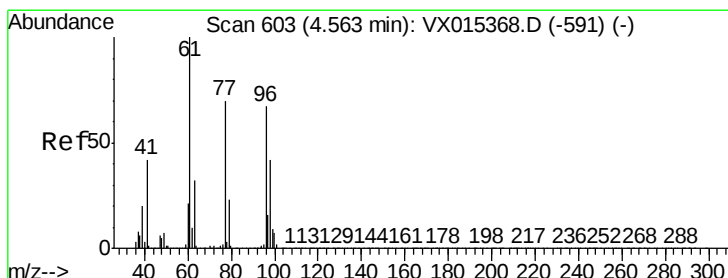
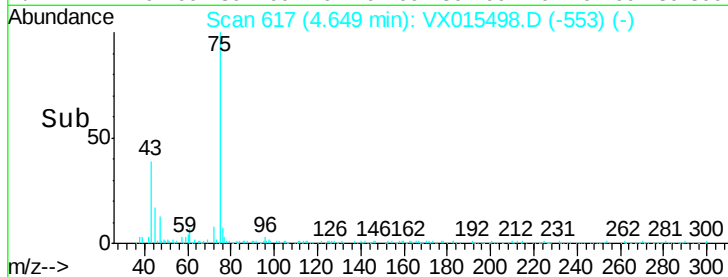
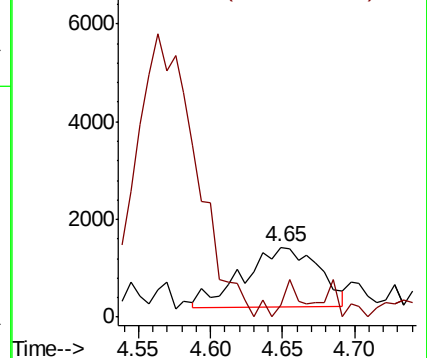
77 100

97 13.6 11.3 33.8



Abundance Ion 76.90 (76.60 to 77.60): VX0

Ion 96.90 (96.60 to 97.60): VX0



#27

cis-1,2-Dichloroethene

Concen: 29.166 ug/l

RT: 4.58 min Scan# 605

Delta R.T. 0.01 min

Lab File: VX015498.D

Acq: 02 Apr 2020 21:24

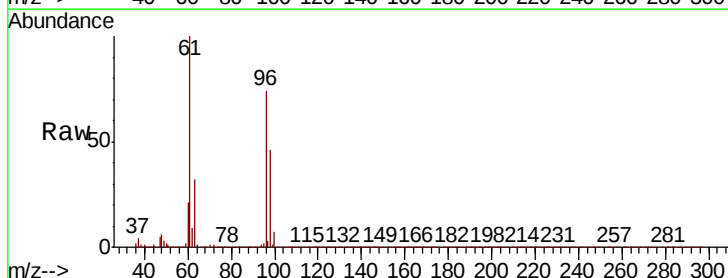
Tgt Ion: 96 Resp: 385706

Ion Ratio Lower Upper

96 100

61 141.4 0.0 308.4

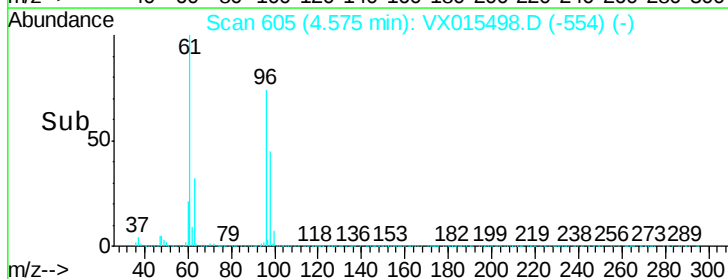
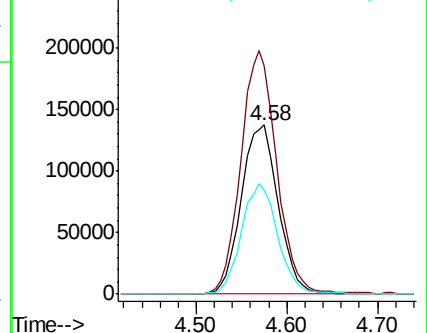
98 64.8 0.0 129.2

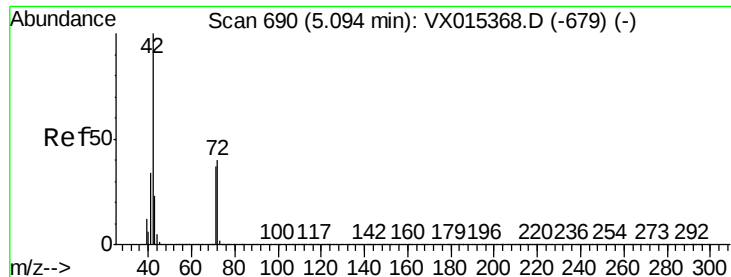


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0





#29

Tetrahydrofuran

Concen: 2.412 ug/l

RT: 5.11 min Scan# 693

Delta R.T. 0.02 min

Lab File: VX015498.D

Acq: 02 Apr 2020 21:24

Instrument :

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ClientSampleId :

S32-MULTI-IDW01

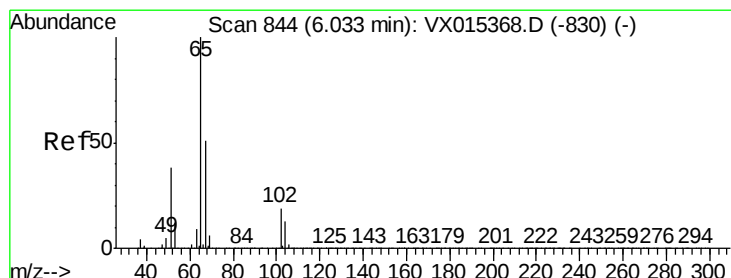
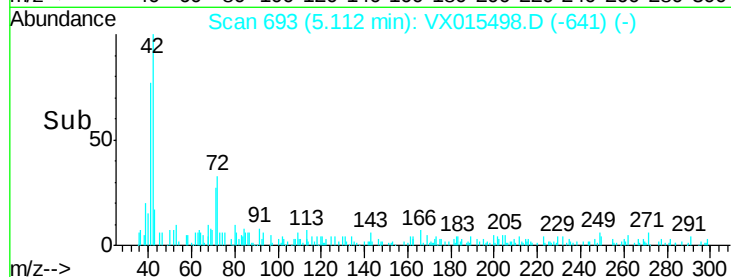
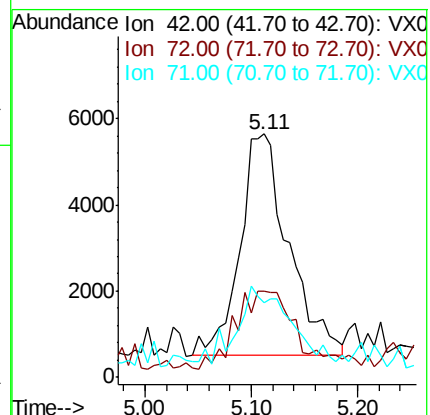
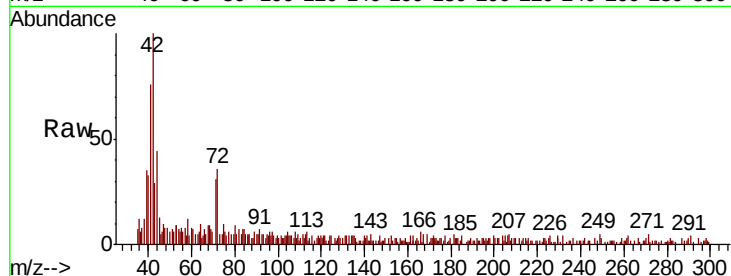
Tot Ion: 42 Resp: 16487

Ion Ratio Lower Upper

42 100

72 45.9 31.7 47.5

71 37.9 29.6 44.4



#33

1,2-Dichloroethane-d4

Concen: 47.386 ug/l

RT: 6.03 min Scan# 844

Delta R.T. -0.00 min

Lab File: VX015498.D

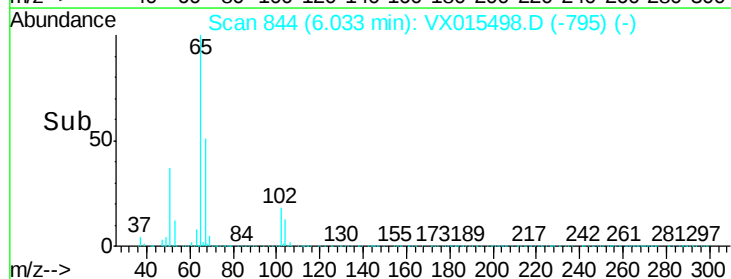
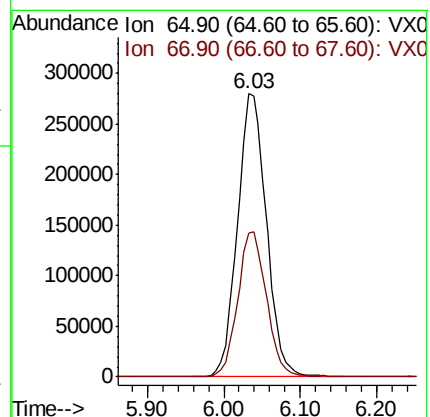
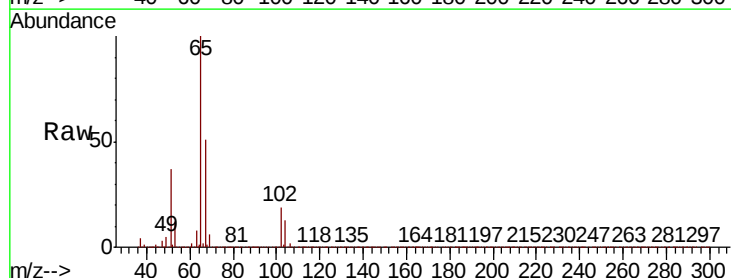
Acq: 02 Apr 2020 21:24

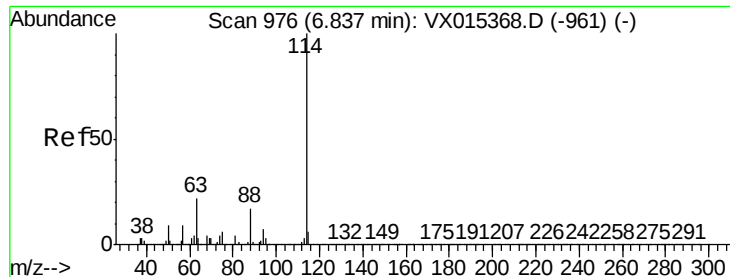
Tgt Ion: 65 Resp: 729099

Ion Ratio Lower Upper

65 100

67 50.7 0.0 102.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.83 min Scan# 975

Delta R.T. -0.01 min

Lab File: VX015498.D

Acq: 02 Apr 2020 21:24

Instrument :

MSVOA_X

ClientSampleId :

S32-MULTI-IDW01

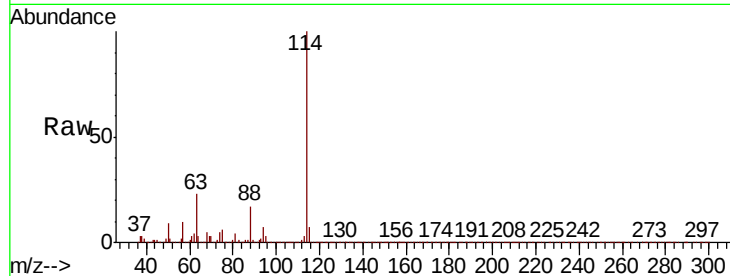
Tot Ion:114 Resp: 1723595

Ion Ratio Lower Upper

114 100

63 23.0 0.0 44.2

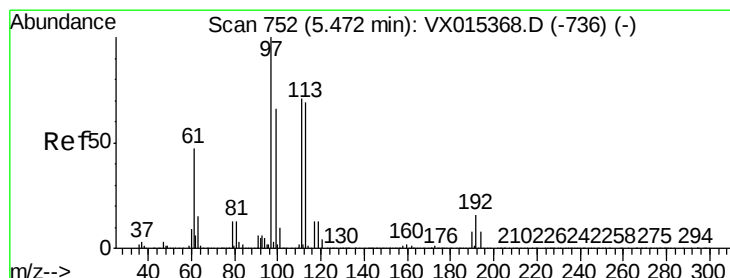
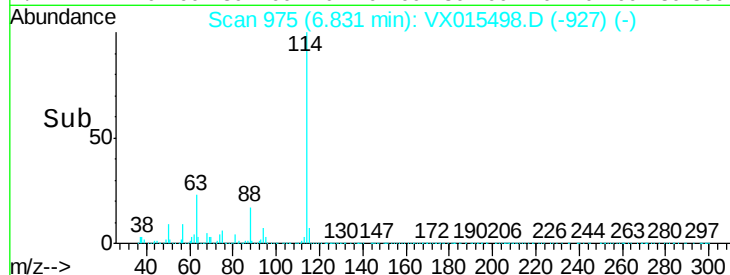
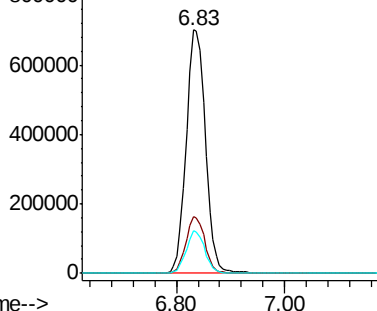
88 17.2 0.0 33.8



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: 49.652 ug/l

RT: 5.47 min Scan# 752

Delta R.T. -0.00 min

Lab File: VX015498.D

Acq: 02 Apr 2020 21:24

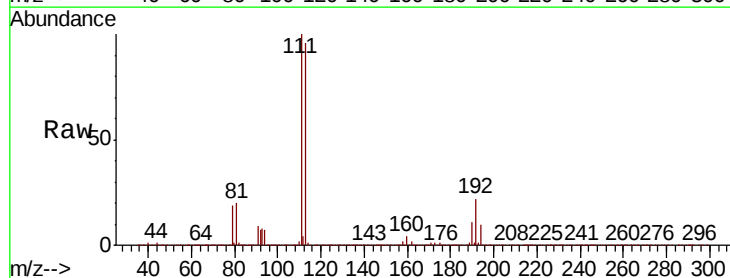
Tgt Ion:113 Resp: 547046

Ion Ratio Lower Upper

113 100

111 102.9 81.5 122.3

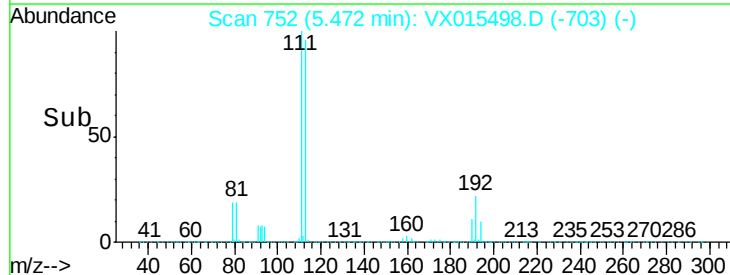
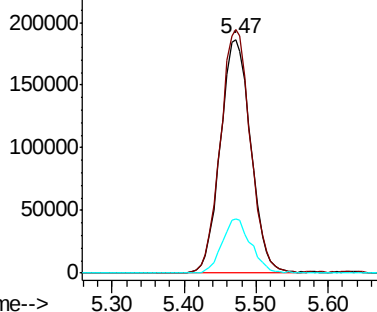
192 22.0 17.8 26.6

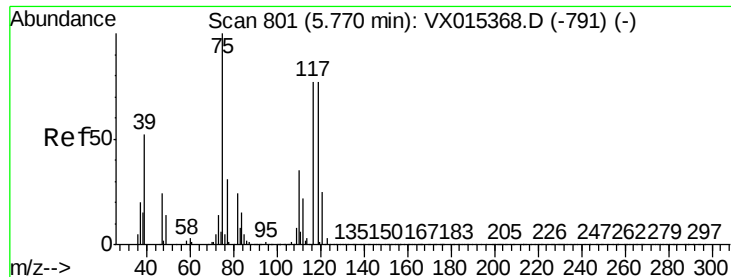


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

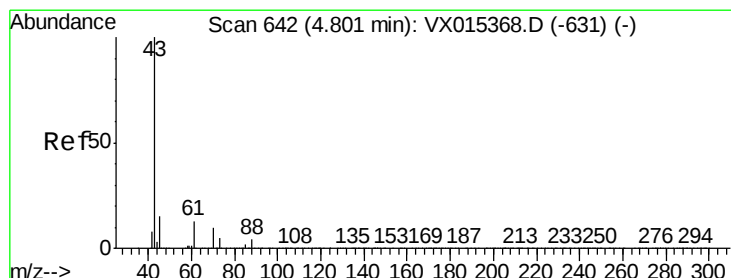
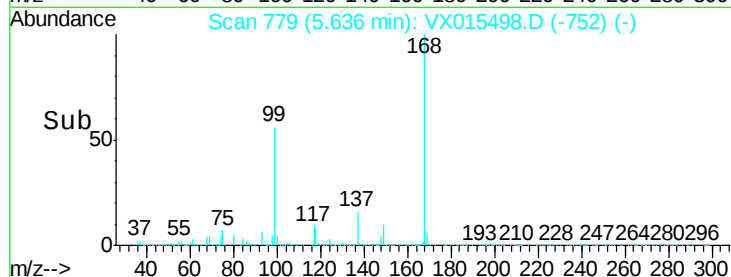
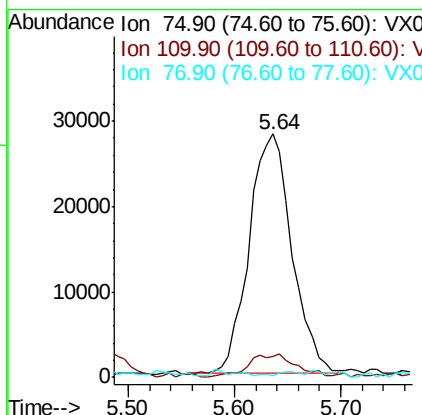
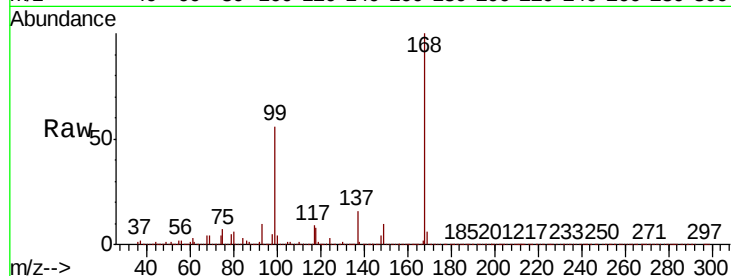




#36
 1,1-Dichloropropene
 Concen: 4.972 ug/l
 RT: 5.64 min Scan# 779
 Delta R.T. -0.13 min
 Lab File: VX015498.D
 Acq: 02 Apr 2020 21:24

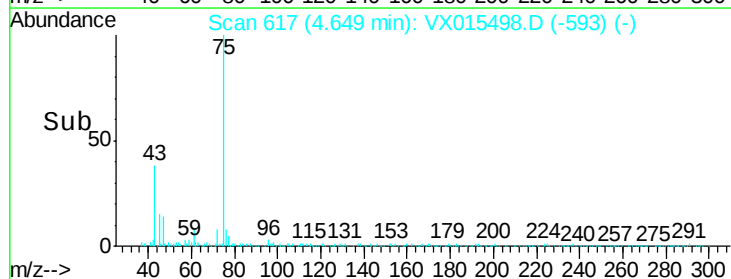
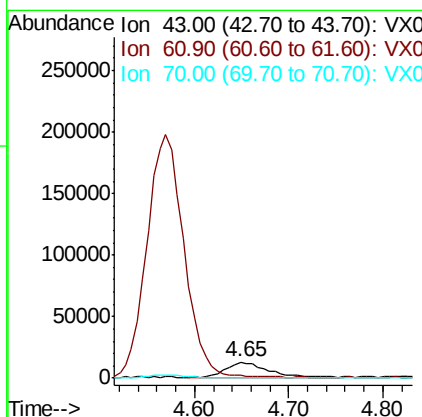
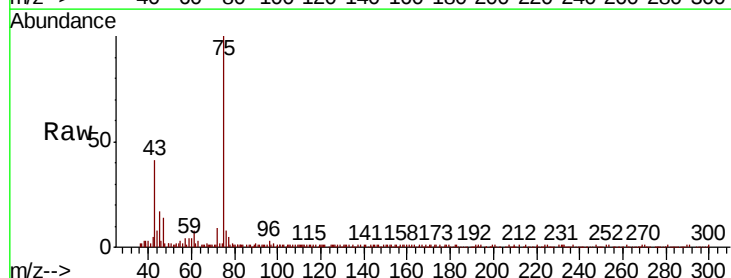
Instrument :
 MSVOA_X
 ClientSampleId :
 S32-MULTI-IDW01

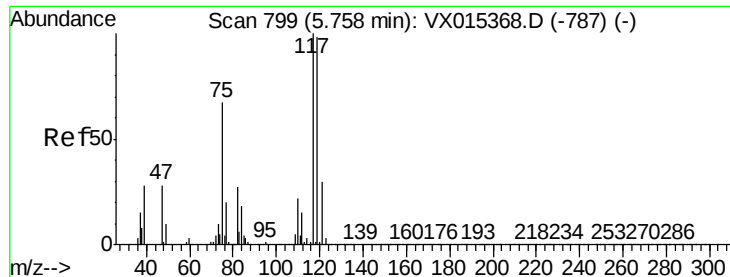
Tot Ion	Ratio	Lower	Upper
75	100		
110	10.9	17.1	51.3#
77	0.6	24.6	36.8#



#37
 Ethyl Acetate
 Concen: 1.793 ug/l
 RT: 4.65 min Scan# 617
 Delta R.T. -0.15 min
 Lab File: VX015498.D
 Acq: 02 Apr 2020 21:24

Tgt Ion	Ratio	Lower	Upper
43	100		
61	0.0	9.9	14.9#
70	2.5	8.1	12.1#





#38

Carbon Tetrachloride

Concen: 5.961 ug/l

RT: 5.63 min Scan# 778

Delta R.T. -0.13 min

Lab File: VX015498.D

Acq: 02 Apr 2020 21:24

Instrument :

MSVOA_X

ClientSampleId :

S32-MULTI-IDW01

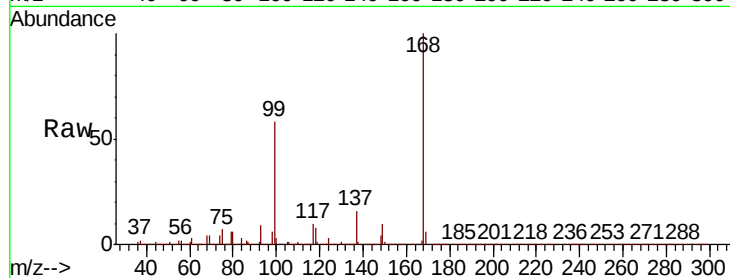
Tot Ion:117 Resp: 102526

Ion Ratio Lower Upper

117 100

119 5.1 78.0 117.0#

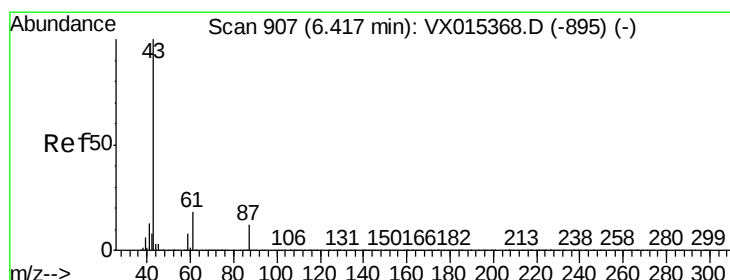
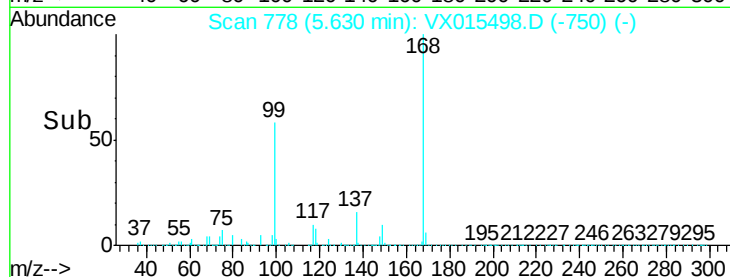
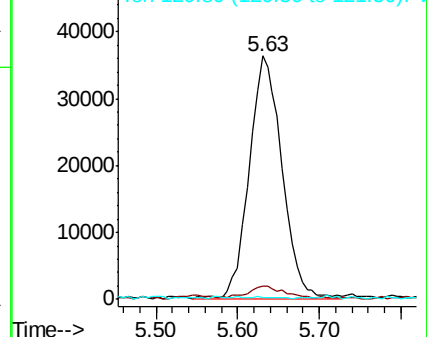
121 0.6 23.8 35.8#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 7.151 ug/l

RT: 6.42 min Scan# 907

Delta R.T. -0.00 min

Lab File: VX015498.D

Acq: 02 Apr 2020 21:24

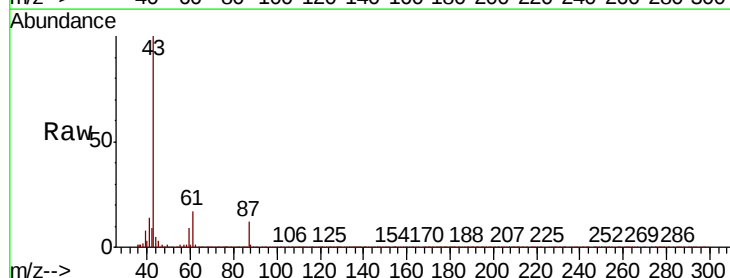
Tgt Ion: 43 Resp: 249602

Ion Ratio Lower Upper

43 100

61 17.5 14.8 22.2

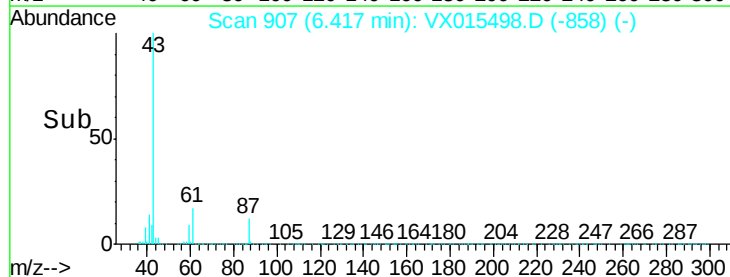
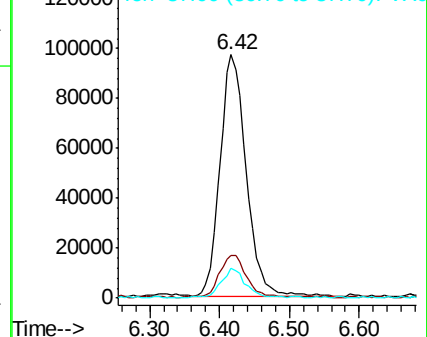
87 11.0 9.4 14.0

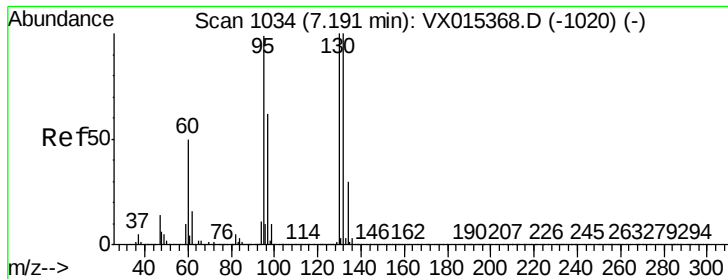


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

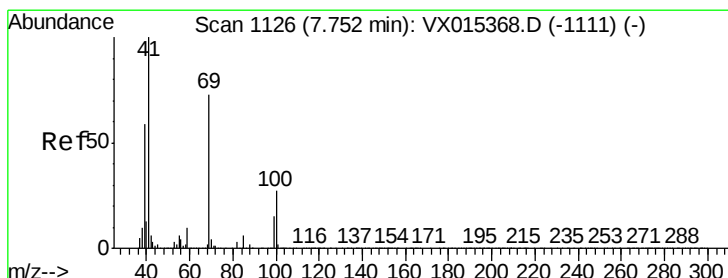
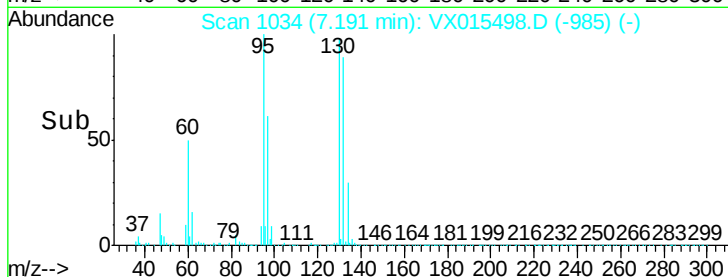
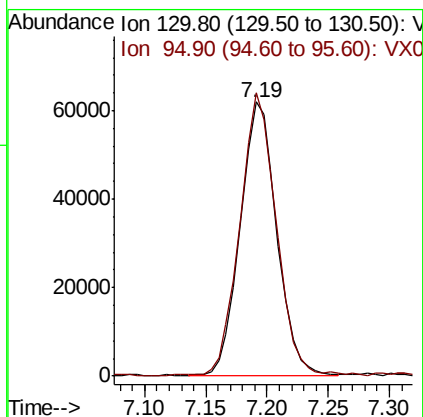
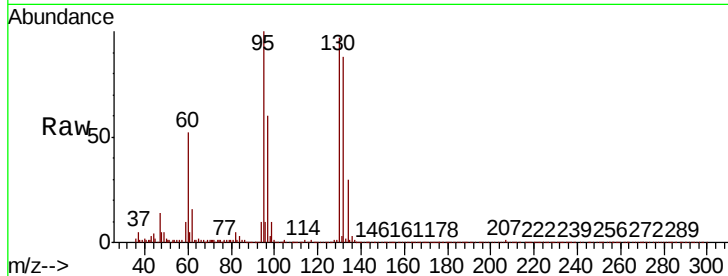




#44
 Trichloroethene
 Concen: 10.019 ug/l
 RT: 7.19 min Scan# 1034
 Delta R.T. -0.00 min
 Lab File: VX015498.D
 Acq: 02 Apr 2020 21:24

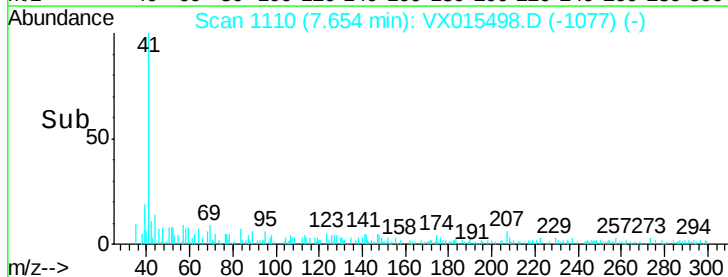
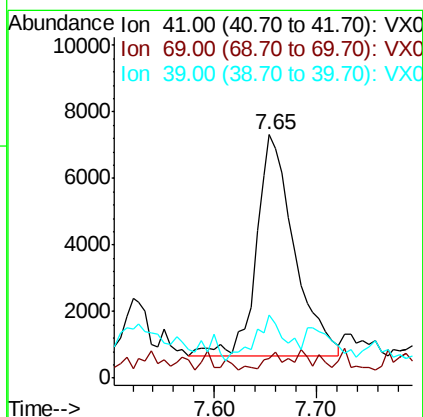
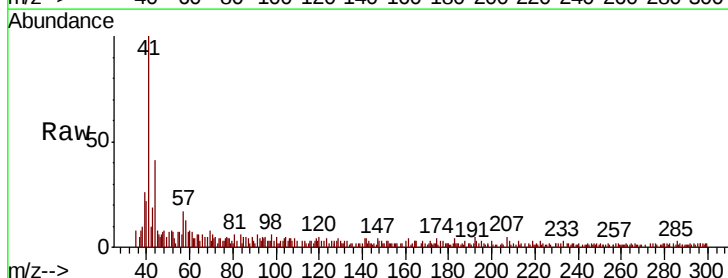
Instrument :
 MSVOA_X
 ClientSampleId :
 S32-MULTI-IDW01

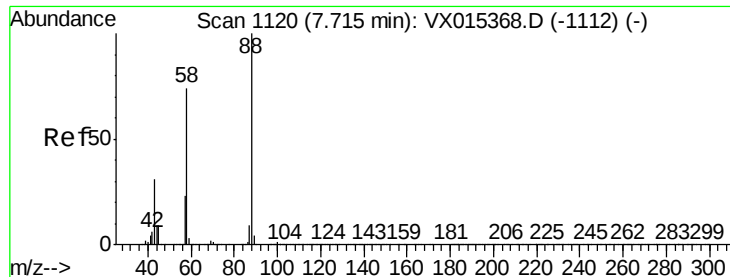
Tot Ion:130 Resp: 127118
 Ion Ratio Lower Upper
 130 100
 95 103.2 0.0 199.0



#48
 Methyl methacrylate
 Concen: 0.979 ug/l
 RT: 7.65 min Scan# 1110
 Delta R.T. -0.10 min
 Lab File: VX015498.D
 Acq: 02 Apr 2020 21:24

Tgt Ion: 41 Resp: 17072
 Ion Ratio Lower Upper
 41 100
 69 2.8 56.7 85.1#
 39 0.0 46.5 69.7#





#49

1,4-Dioxane

Concen: 1.316 ug/l

RT: 7.71 min Scan# 1119

Delta R.T. -0.01 min

Lab File: VX015498.D

Acq: 02 Apr 2020 21:24

Instrument :

MSVOA_X

ClientSampleId :

S32-MULTI-IDW01

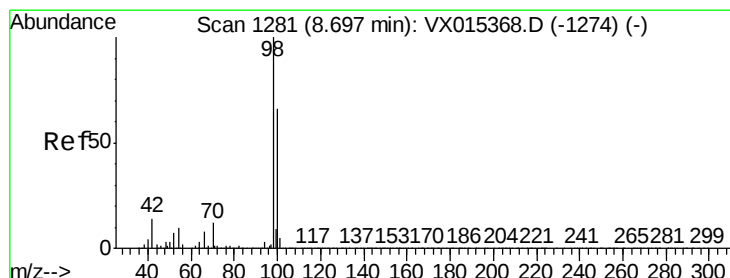
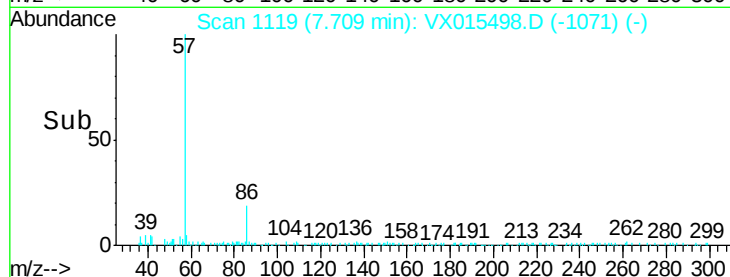
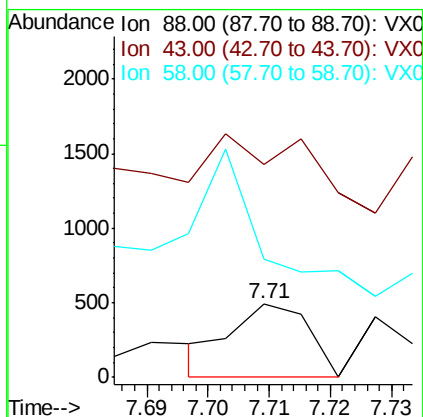
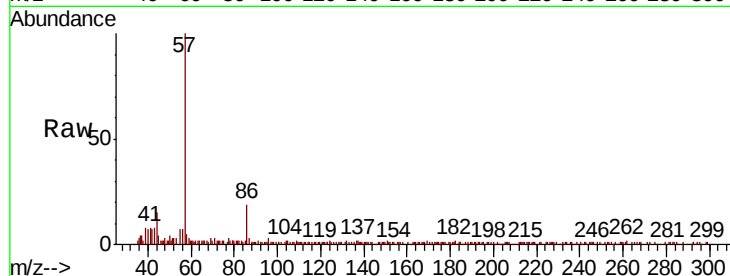
Tot Ion: 88 Resp: 428

Ion Ratio Lower Upper

88 100

43 0.0 30.1 45.1#

58 204.7 60.6 90.8#



#50

Toluene-d8

Concen: 51.520 ug/l

RT: 8.70 min Scan# 1281

Delta R.T. -0.00 min

Lab File: VX015498.D

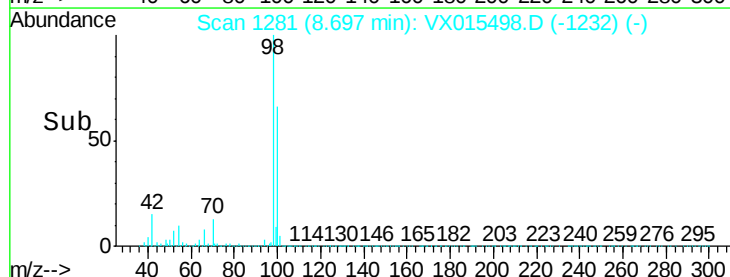
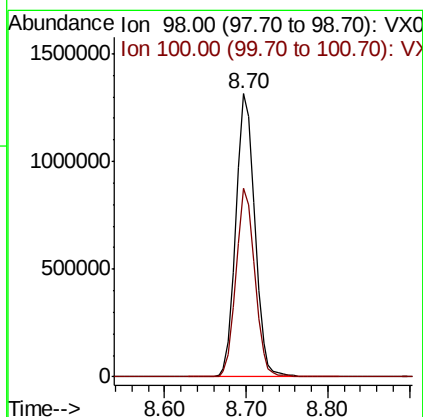
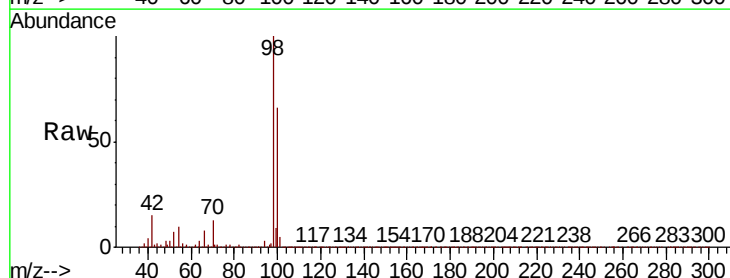
Acq: 02 Apr 2020 21:24

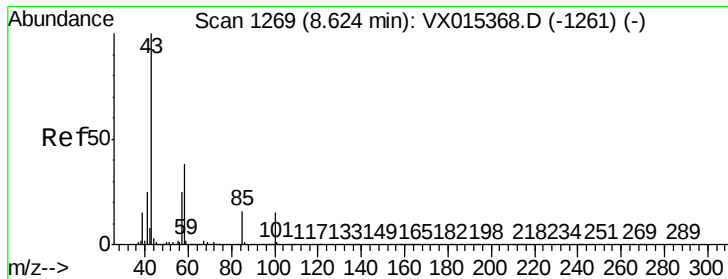
Tgt Ion: 98 Resp: 2089864

Ion Ratio Lower Upper

98 100

100 65.7 53.5 80.3

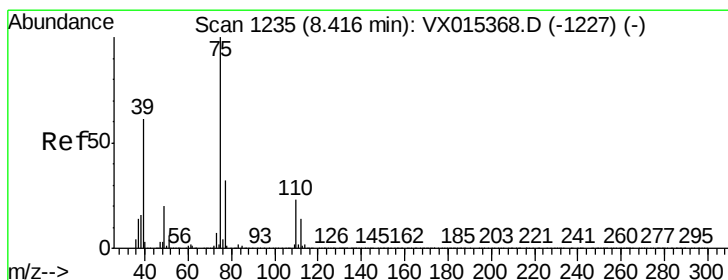
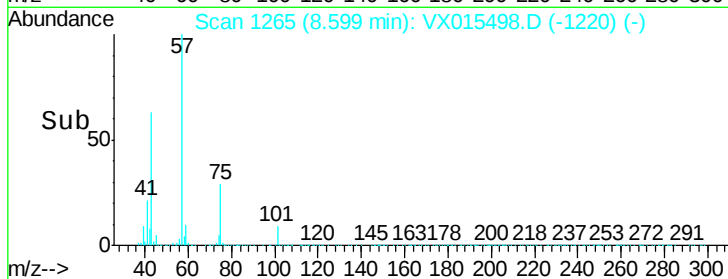
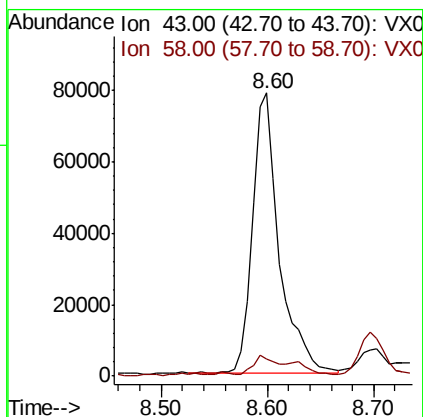
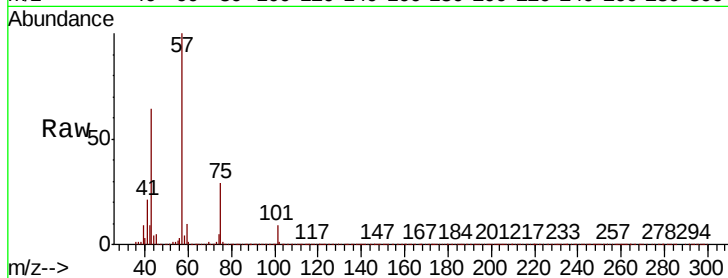




#51
 4-Methyl-2-Pentanone
 Concen: 7.005 ug/l
 RT: 8.60 min Scan# 1265
 Delta R.T. -0.02 min
 Lab File: VX015498.D
 Acq: 02 Apr 2020 21:24

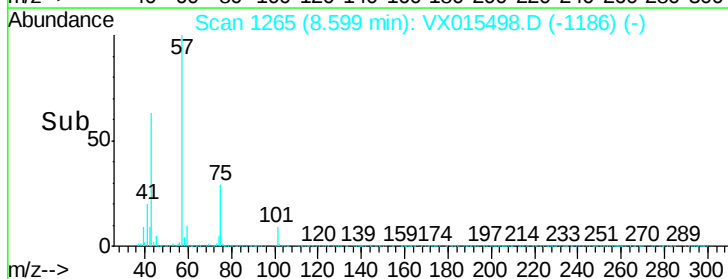
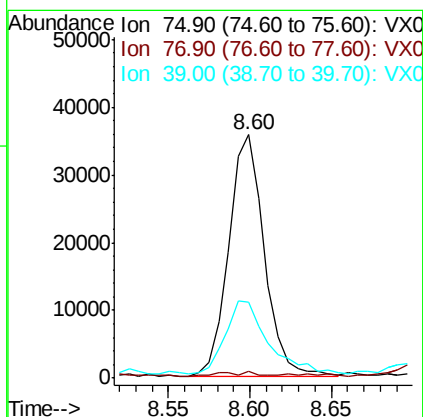
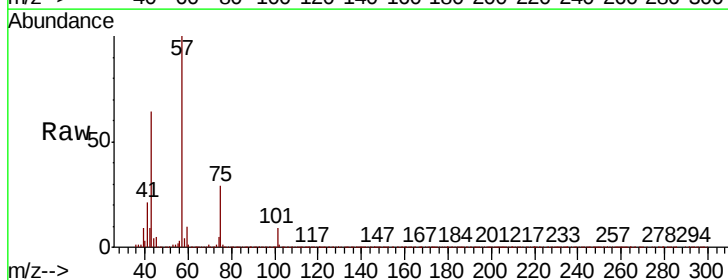
Instrument :
 MSVOA_X
 ClientSampleId :
 S32-MULTI-IDW01

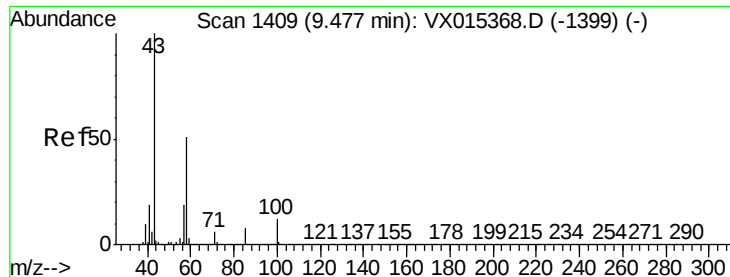
Tot Ion: 43 Resp: 138568
 Ion Ratio Lower Upper
 43 100
 58 5.3 29.7 44.5#



#54
 cis-1,3-Dichloropropene
 Concen: 2.545 ug/l
 RT: 8.60 min Scan# 1265
 Delta R.T. 0.18 min
 Lab File: VX015498.D
 Acq: 02 Apr 2020 21:24

Tgt Ion: 75 Resp: 54082
 Ion Ratio Lower Upper
 75 100
 77 1.8 25.8 38.6#
 39 29.9 49.0 73.4#





#59

2-Hexanone

Concen: 6.352 ug/l

RT: 9.42 min Scan# 1400

Delta R.T. -0.05 min

Lab File: VX015498.D

Acq: 02 Apr 2020 21:24

Instrument :

MSVOA_X

ClientSampleId :

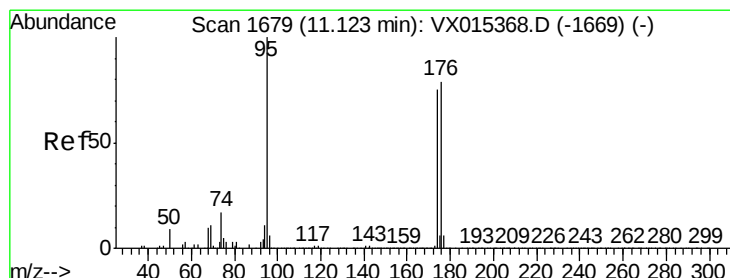
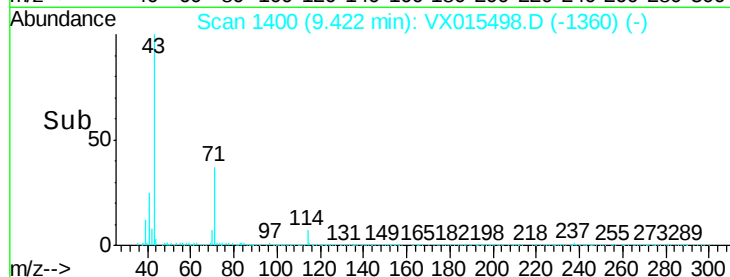
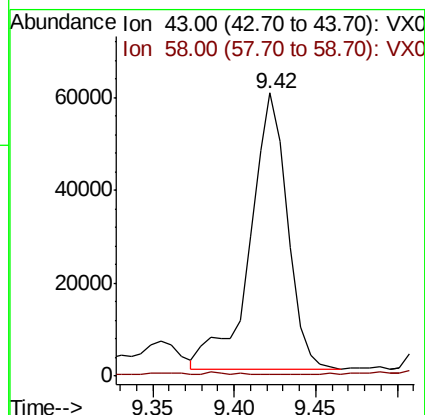
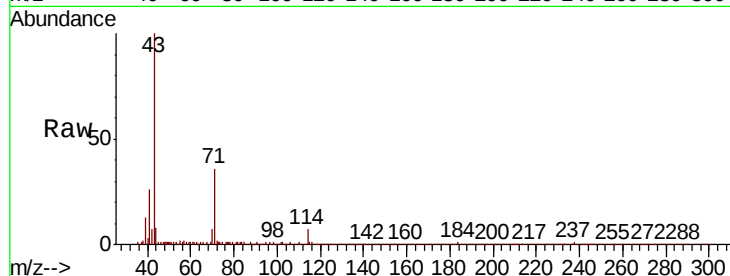
S32-MULTI-IDW01

Tot Ion: 43 Resp: 94873

Ion Ratio Lower Upper

43 100

58 0.0 25.6 76.6#



#62

4-Bromofluorobenzene

Concen: 55.541 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. -0.00 min

Lab File: VX015498.D

Acq: 02 Apr 2020 21:24

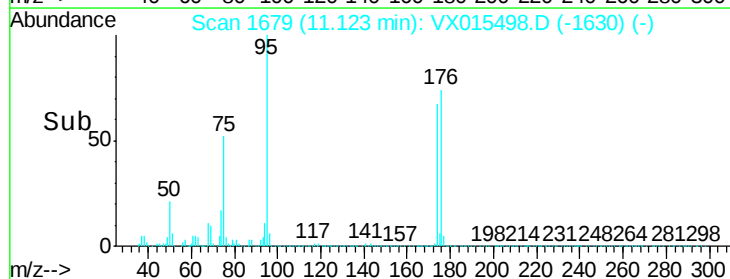
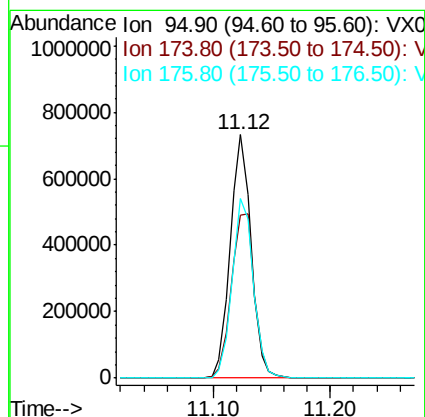
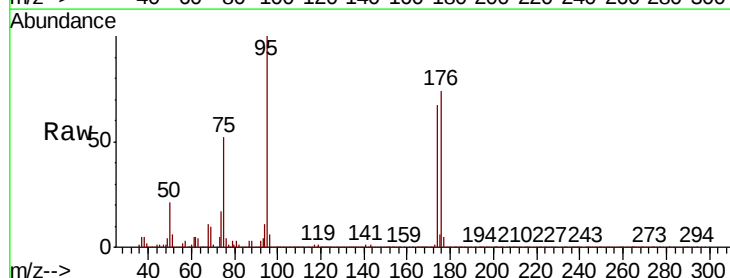
Tgt Ion: 95 Resp: 915619

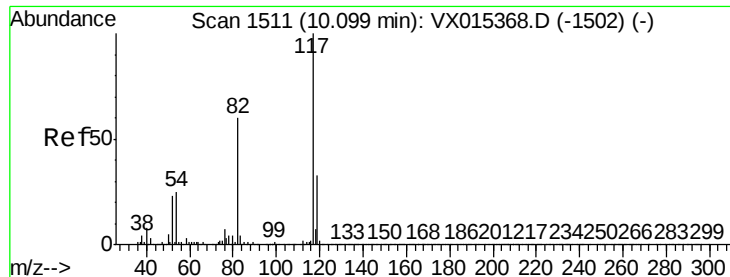
Ion Ratio Lower Upper

95 100

174 75.0 0.0 158.6

176 75.3 0.0 159.0

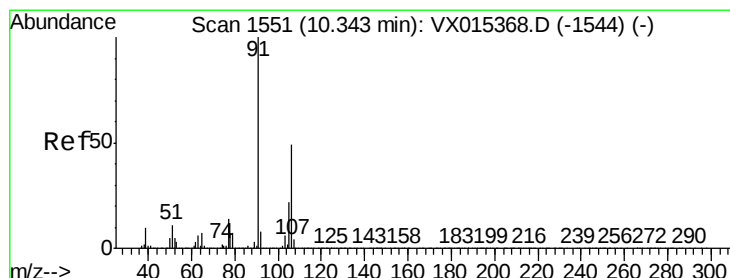
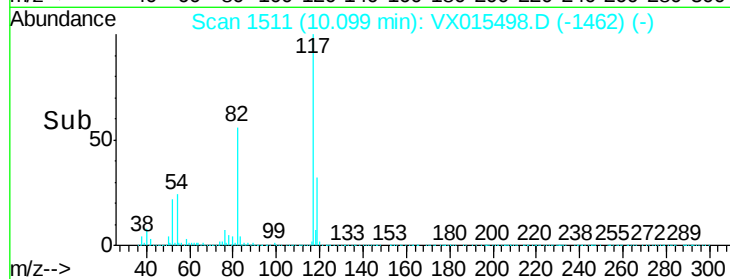
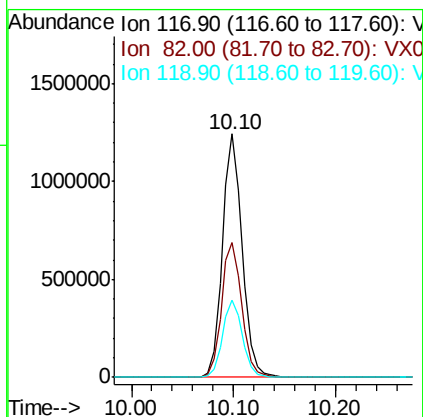
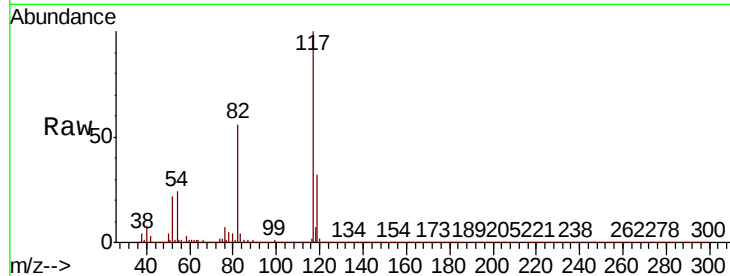




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1511
Delta R.T. -0.00 min
Lab File: VX015498.D
Acq: 02 Apr 2020 21:24

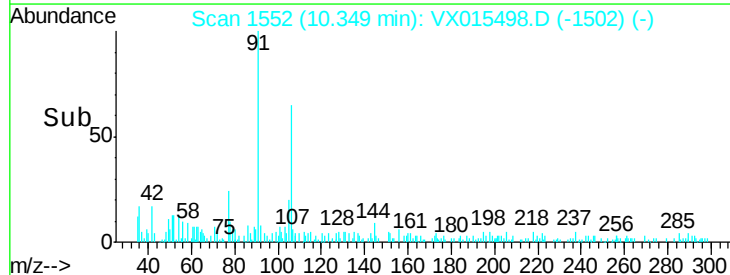
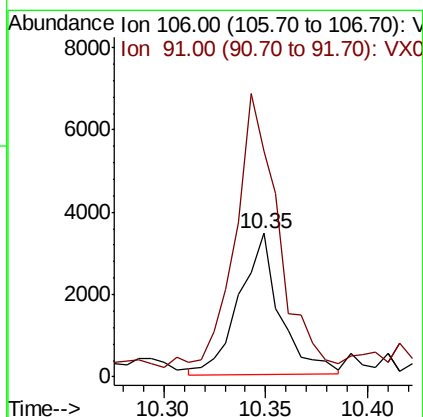
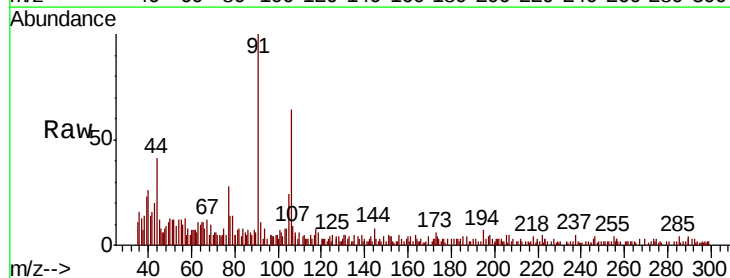
Instrument :
MSVOA_X
ClientSampleId :
S32-MULTI-IDW01

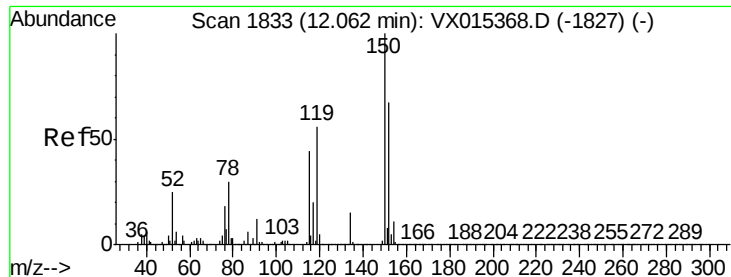
Tot Ion:117 Resp: 1664126
Ion Ratio Lower Upper
117 100
82 55.6 47.8 71.8
119 31.8 26.8 40.2



#68
m/p-Xylenes
Concen: 0.218 ug/l
RT: 10.35 min Scan# 1552
Delta R.T. 0.01 min
Lab File: VX015498.D
Acq: 02 Apr 2020 21:24

Tgt Ion:106 Resp: 4772
Ion Ratio Lower Upper
106 100
91 202.8 163.4 245.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1834

Delta R.T. 0.01 min

Lab File: VX015498.D

Acq: 02 Apr 2020 21:24

Instrument :

MSVOA_X

ClientSampleId :

S32-MULTI-IDW01

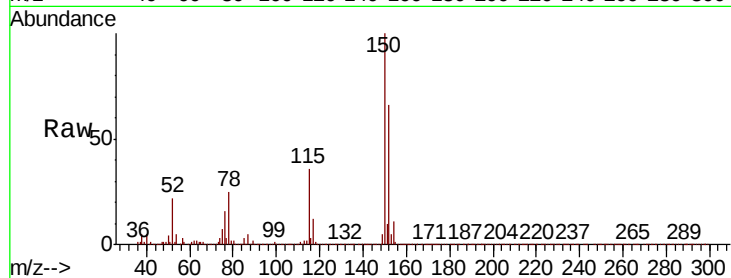
Tot Ion:152 Resp: 891871

Ion Ratio Lower Upper

152 100

115 59.3 39.0 116.9

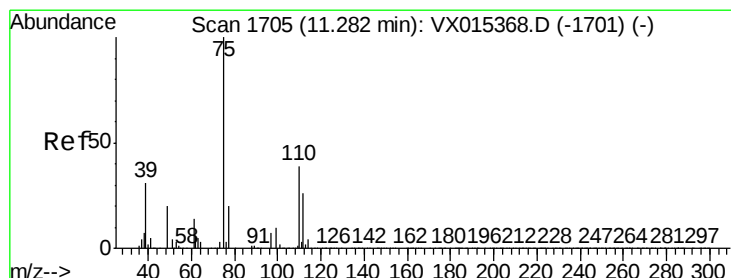
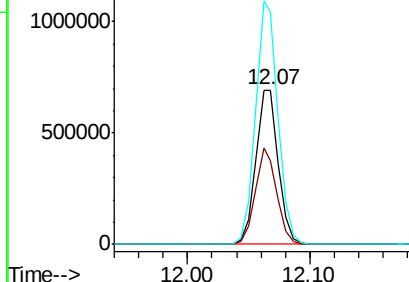
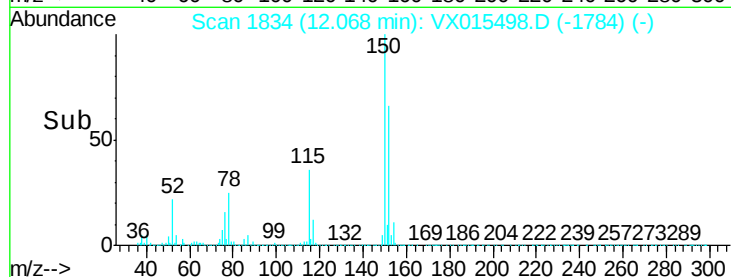
150 156.6 0.0 340.8



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



#76

1,2,3-Trichloropropane

Concen: 25.531 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. -0.16 min

Lab File: VX015498.D

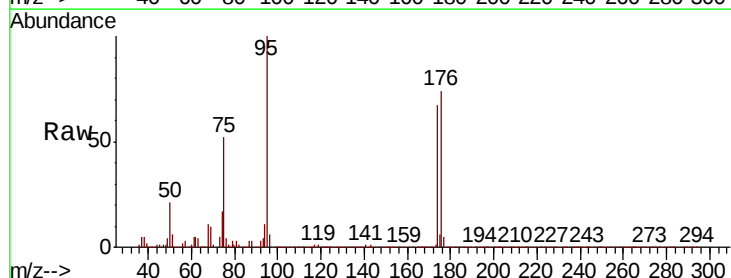
Acq: 02 Apr 2020 21:24

Tgt Ion: 75 Resp: 468255

Ion Ratio Lower Upper

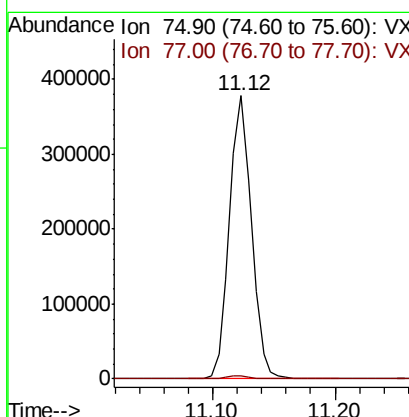
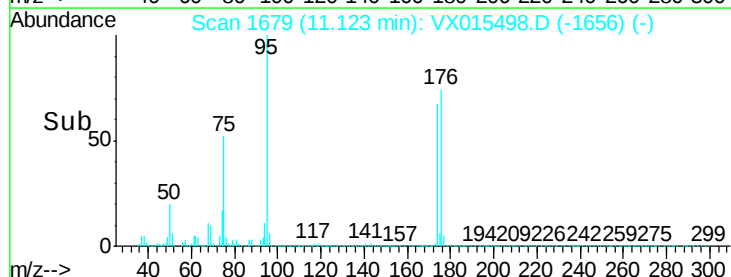
75 100

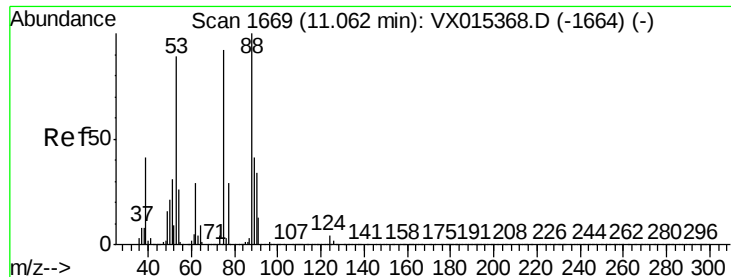
77 1.1 21.2 63.6#



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: 61.261 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. 0.06 min

Lab File: VX015498.D

Acq: 02 Apr 2020 21:24

Instrument :

MSVOA_X

ClientSampleId :

S32-MULTI-IDW01

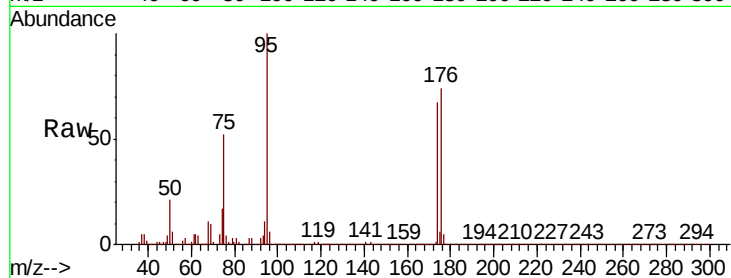
Tot Ion: 75 Resp: 468255

Ion Ratio Lower Upper

75 100

53 0.1 80.1 120.1#

89 0.0 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

