

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX073120\
 Data File : VX017728.D
 Acq On : 01 Aug 2020 02:31
 Operator : JC/SP
 Sample : PB130661ZHE#24
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BFB

Quant Time: Aug 01 05:11:58 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X072320W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jul 24 05:48:09 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	454696	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	756042	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	779435	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	417824	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	320132	54.81	ug/l	0.00
Spiked Amount			Recovery	=	109.62%	
35) Dibromofluoromethane	5.47	113	271853	53.76	ug/l	0.00
Spiked Amount			Recovery	=	107.52%	
50) Toluene-d8	8.70	98	877415	48.10	ug/l	0.00
Spiked Amount			Recovery	=	96.20%	
62) 4-Bromofluorobenzene	11.12	95	407516	55.82	ug/l	0.00
Spiked Amount			Recovery	=	111.64%	

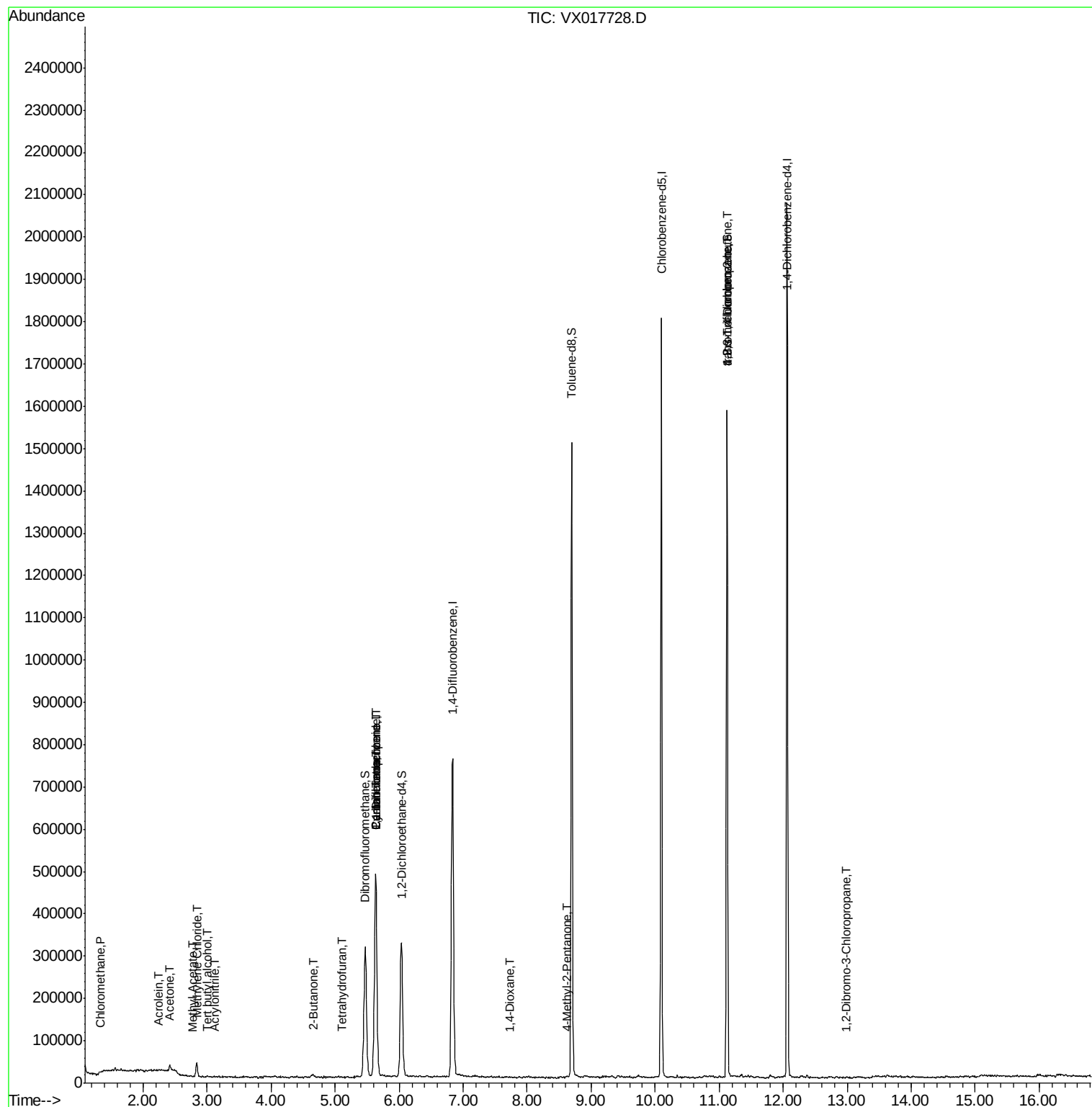
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.18	85	187	Below Cal	#	42
3) Chloromethane	1.32	50	997	0.543	ug/l #	86
5) Bromomethane	1.60	94	496	Below Cal	#	17
6) Chloroethane	1.72	64	614	Below Cal	#	46
8) Diethyl Ether	2.18	74	1180	Below Cal		61
11) Tert butyl alcohol	3.00	59	837	0.680	ug/l #	86
13) Acrolein	2.23	56	1116	5.316	ug/l #	60
15) Acrylonitrile	3.12	53	670	0.252	ug/l #	69
16) Acetone	2.42	43	11343	4.412	ug/l	95
18) Methyl Acetate	2.76	43	1357	0.224	ug/l #	87
20) Methylene Chloride	2.84	84	16970	2.279	ug/l	93
25) 2-Butanone	4.66	43	3973	1.088	ug/l #	82
29) Tetrahydrofuran	5.10	42	551	0.244	ug/l #	1
31) Cyclohexane	5.63	56	10367	1.439	ug/l #	35
36) 1,1-Dichloropropene	5.64	75	34257	4.724	ug/l #	53
38) Carbon Tetrachloride	5.64	117	46339	5.263	ug/l #	17
49) 1,4-Dioxane	7.72	88	171	1.375	ug/l #	1
51) 4-Methyl-2-Pentanone	8.62	43	2028	0.260	ug/l #	31
76) 1,2,3-Trichloropropane	11.12	75	200792	23.362	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.12	75	200792	58.867	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	12.98	75	280	2.682	ug/l #	18

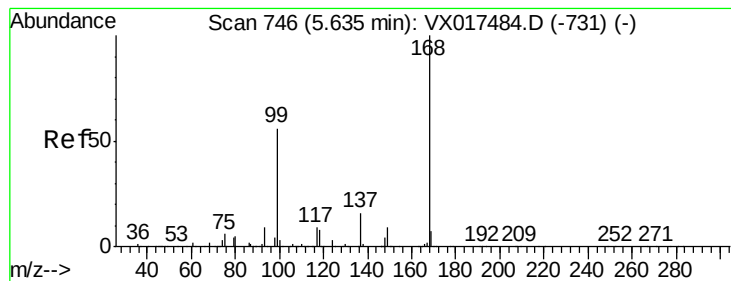
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampleId :
BFB

Quant Time: Aug 01 05:11:58 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X072320W.M
Quant Title : SW846 8260
QLast Update : Fri Jul 24 05:48:09 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.00 min

Lab File: VX017728.D

Acq: 01 Aug 2020 02:31

Instrument :

MSVOA_X

ClientSampled :

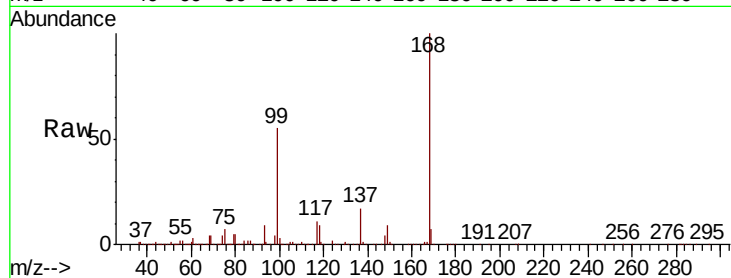
BFB

Tot Ion:168 Resp: 454696

Ion Ratio Lower Upper

168 100

99 55.2 43.4 65.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.64

150000

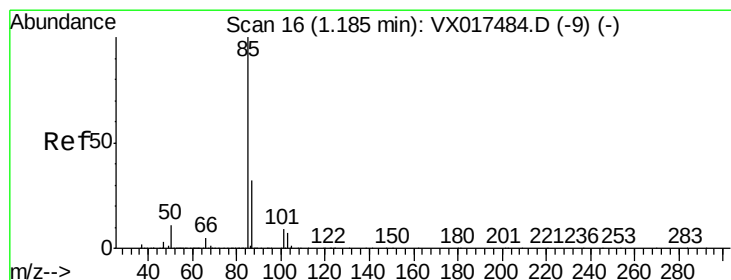
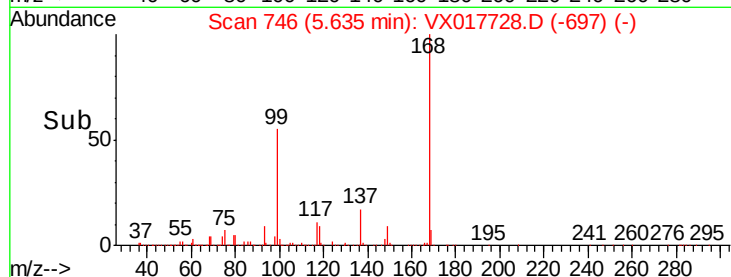
100000

50000

0

Time-->

5.50 5.60 5.70



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.18 min Scan# 16

Delta R.T. 0.00 min

Lab File: VX017728.D

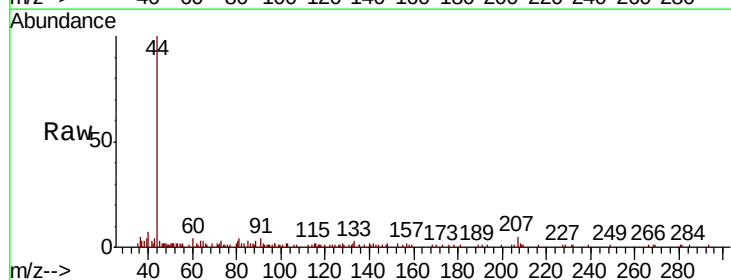
Acq: 01 Aug 2020 02:31

Tgt Ion: 85 Resp: 187

Ion Ratio Lower Upper

85 100

87 0.0 16.1 48.3#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

400

300

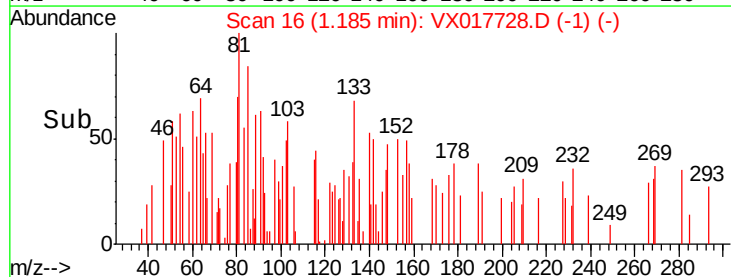
200

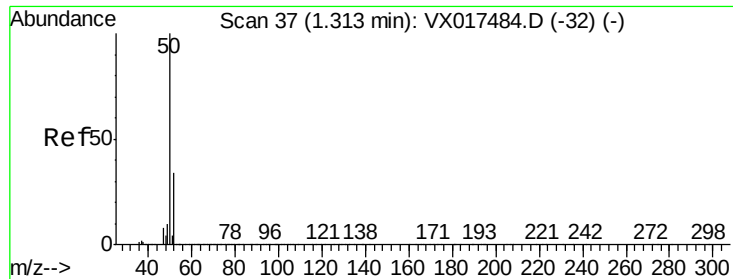
100

0

Time-->

1.16 1.18 1.20





#3

Chloromethane

Concen: 0.543 ug/l

RT: 1.32 min Scan# 39

Delta R.T. 0.01 min

Lab File: VX017728.D

Acq: 01 Aug 2020 02:31

Instrument :

MSVOA_X

ClientSampled :

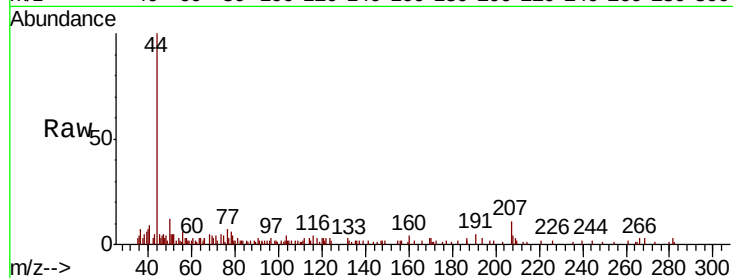
BFB

Tot Ion: 50 Resp: 997

Ion Ratio Lower Upper

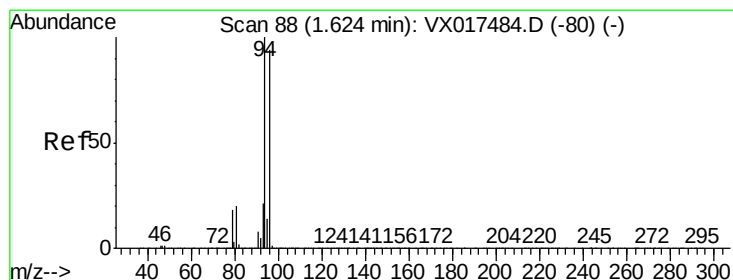
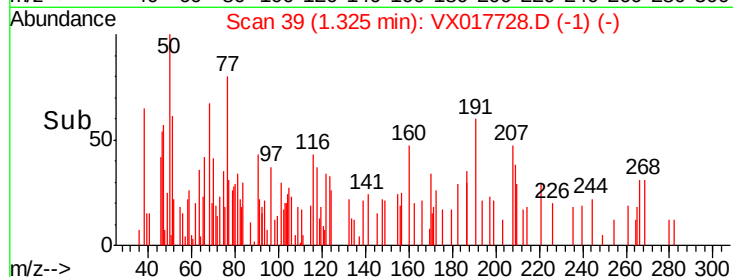
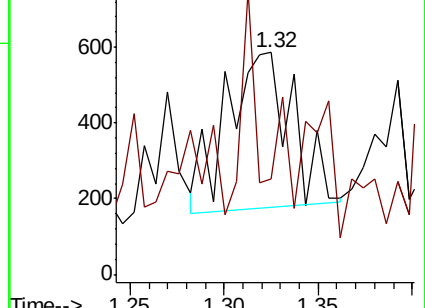
50 100

52 40.0 25.9 38.9#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



#5

Bromomethane

Concen: Below Cal

RT: 1.60 min Scan# 84

Delta R.T. -0.02 min

Lab File: VX017728.D

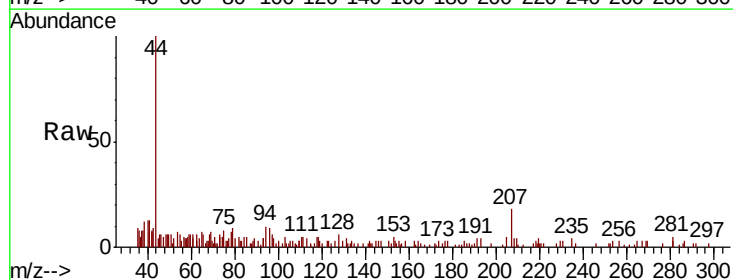
Acq: 01 Aug 2020 02:31

Tgt Ion: 94 Resp: 496

Ion Ratio Lower Upper

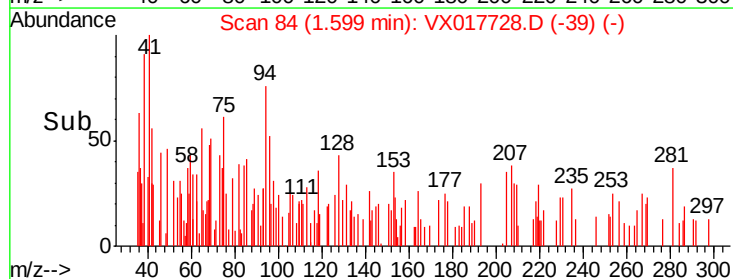
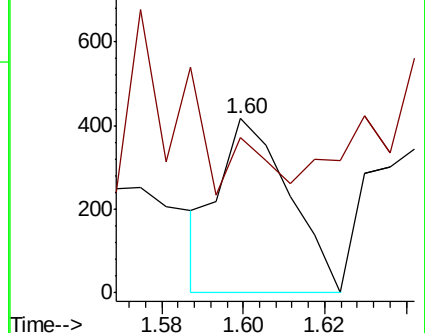
94 100

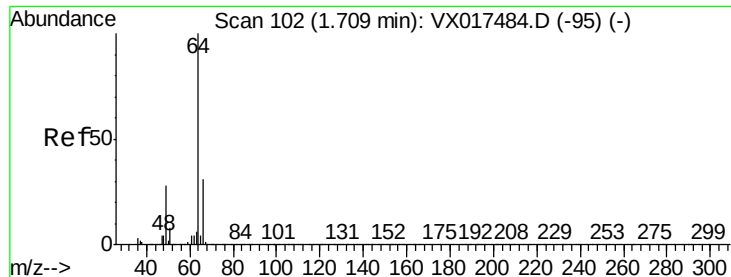
96 13.2 74.1 111.1#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: Below Cal

RT: 1.72 min Scan# 104

Delta R.T. 0.01 min

Lab File: VX017728.D

Acq: 01 Aug 2020 02:31

Instrument :

MSVOA_X

ClientSampled :

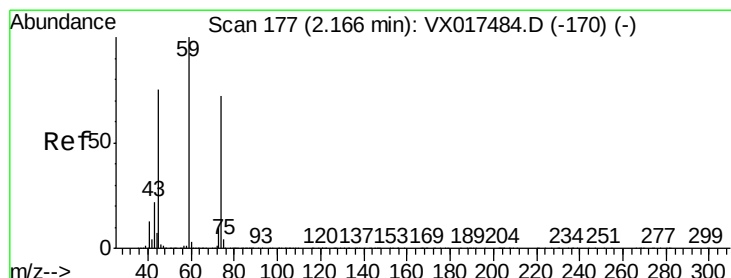
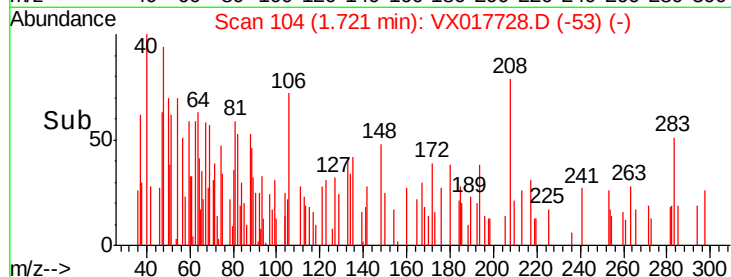
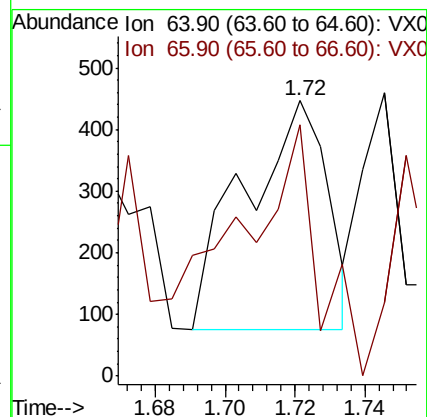
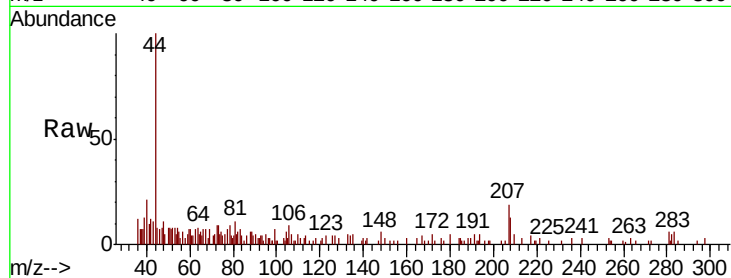
BFB

Tot Ion: 64 Resp: 614

Ion Ratio Lower Upper

64 100

66 60.9 24.9 37.3#



#8

Diethyl Ether

Concen: Below Cal

RT: 2.18 min Scan# 180

Delta R.T. 0.02 min

Lab File: VX017728.D

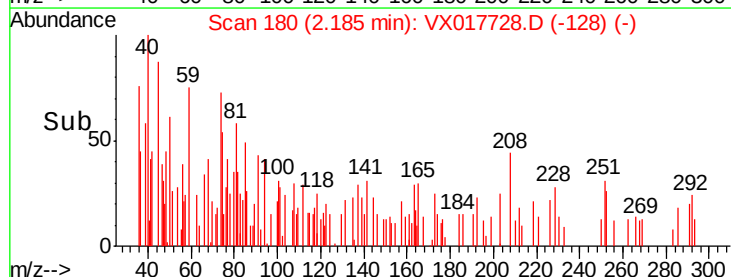
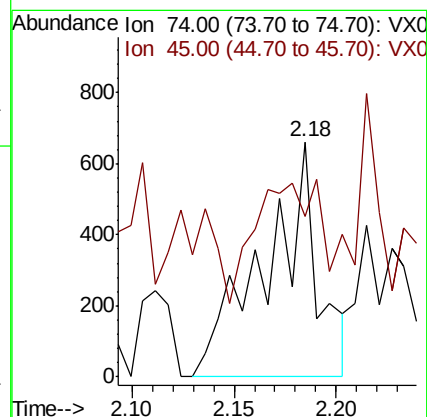
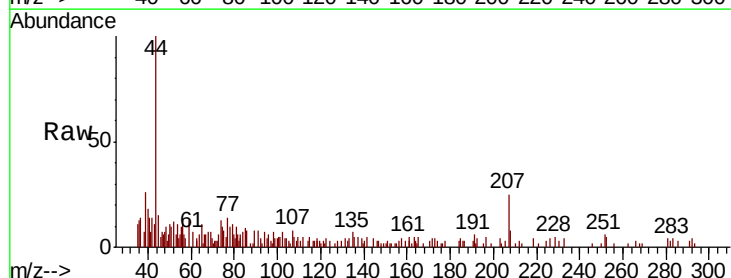
Acq: 01 Aug 2020 02:31

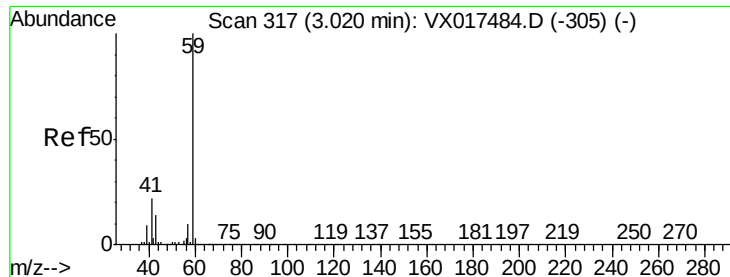
Tgt Ion: 74 Resp: 1180

Ion Ratio Lower Upper

74 100

45 62.6 50.8 152.5



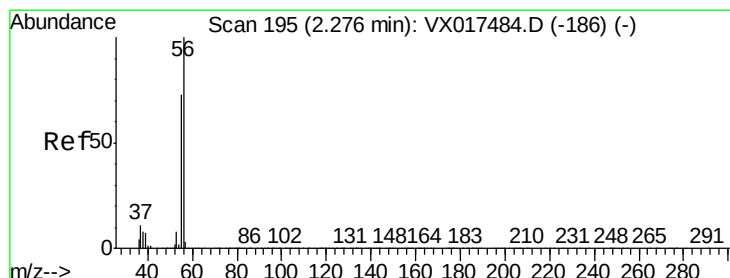
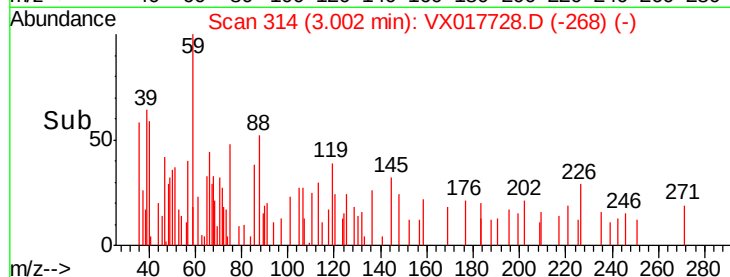
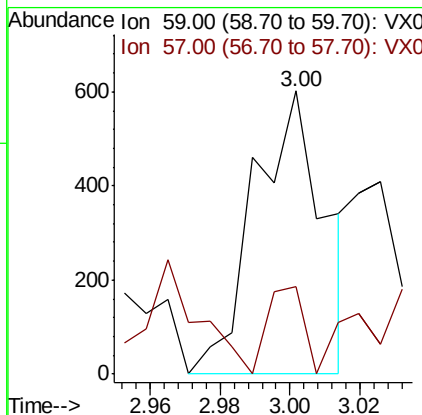
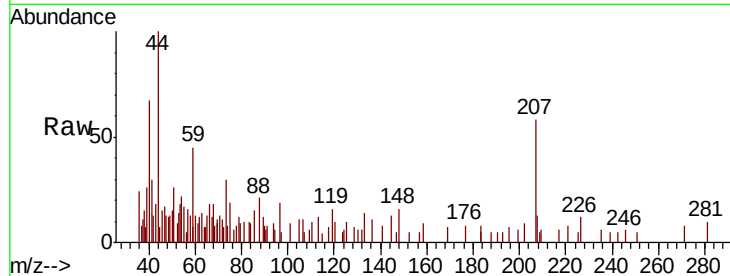


#11

Tert butyl alcohol
Concen: 0.680 ug/l
RT: 3.00 min Scan# 314
Delta R.T. -0.02 min
Lab File: VX017728.D
Acq: 01 Aug 2020 02:31

Instrument :
MSVOA_X
ClientSampled :
BFB

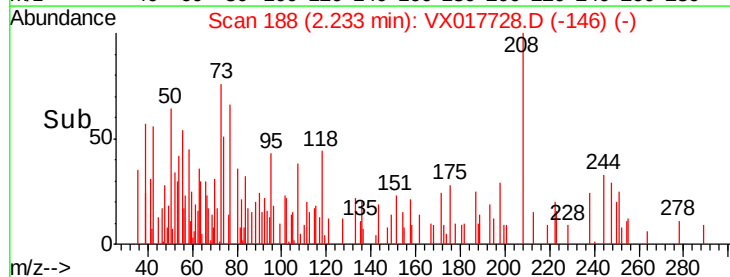
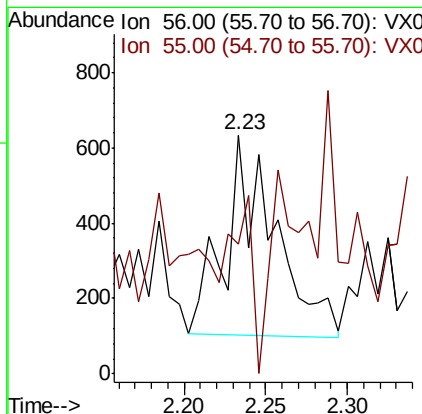
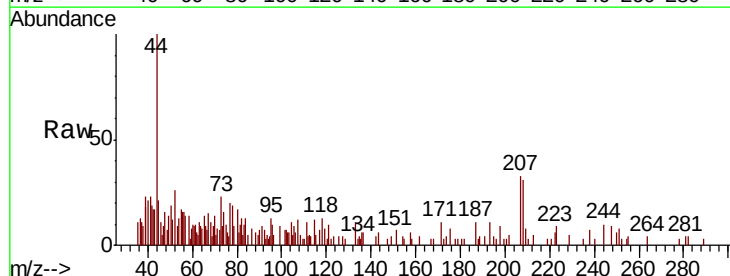
Tot Ion: 59 Resp: 837
Ion Ratio Lower Upper
59 100
57 15.9 8.6 12.8#

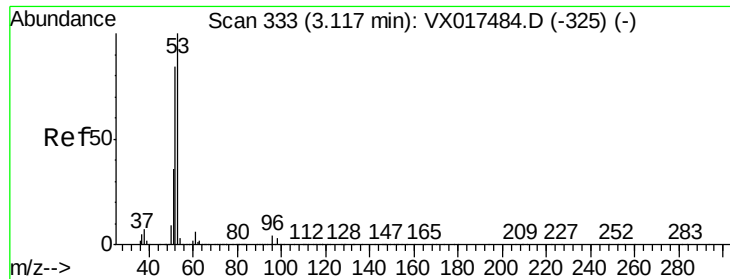


#13

Acrolein
Concen: 5.316 ug/l
RT: 2.23 min Scan# 188
Delta R.T. -0.04 min
Lab File: VX017728.D
Acq: 01 Aug 2020 02:31

Tgt Ion: 56 Resp: 1116
Ion Ratio Lower Upper
56 100
55 38.9 57.4 86.2#





#15

Acrylonitrile

Concen: 0.252 ug/l

RT: 3.12 min Scan# 333

Delta R.T. -0.00 min

Lab File: VX017728.D

Acq: 01 Aug 2020 02:31

Instrument :

MSVOA_X

ClientSampled :

BFB

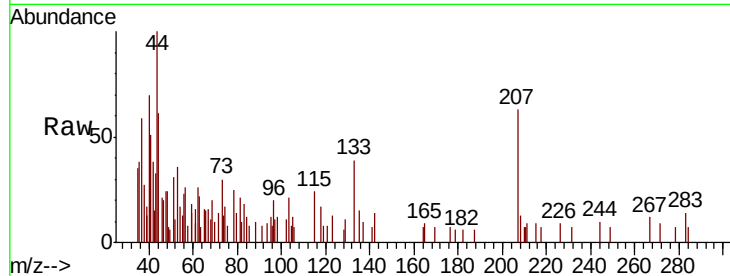
Tot Ion: 53 Resp: 670

Ion Ratio Lower Upper

53 100

52 98.5 66.6 99.8

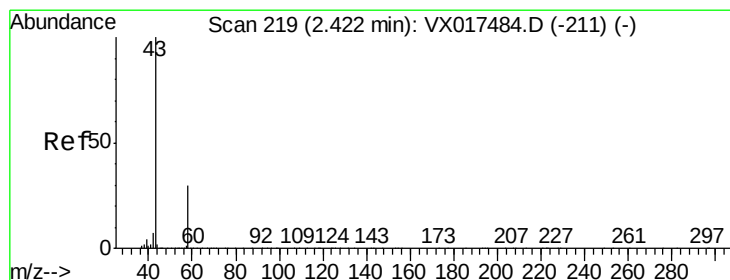
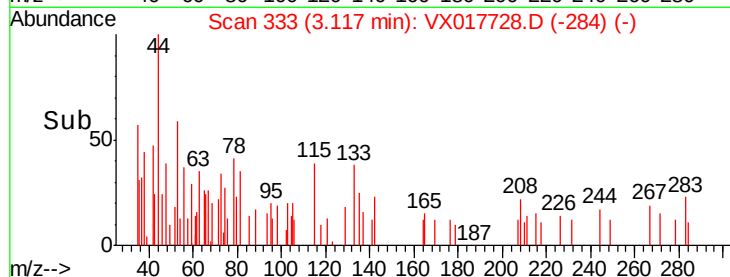
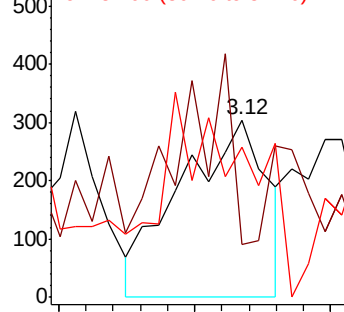
51 0.0 29.4 44.2#



Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0



#16

Acetone

Concen: 4.412 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.01 min

Lab File: VX017728.D

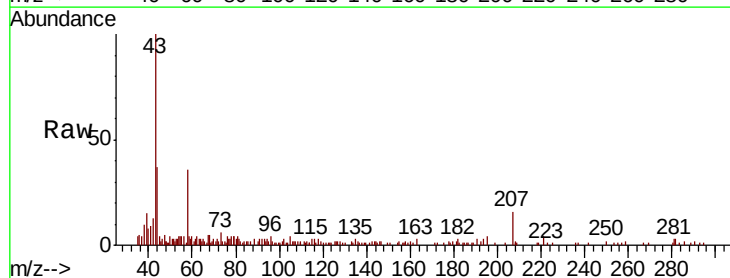
Acq: 01 Aug 2020 02:31

Tgt Ion: 43 Resp: 11343

Ion Ratio Lower Upper

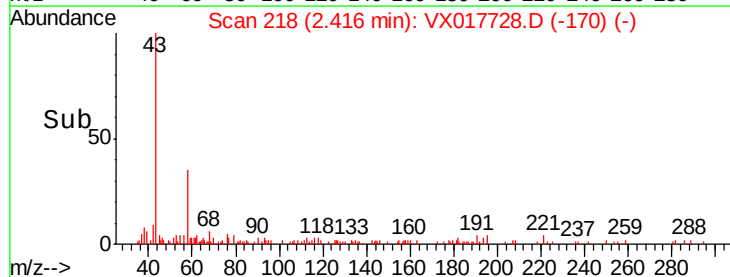
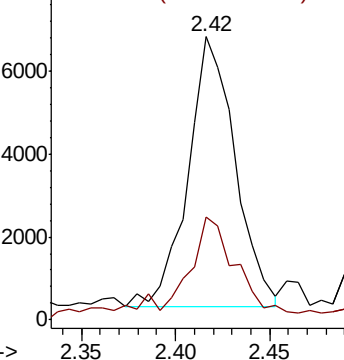
43 100

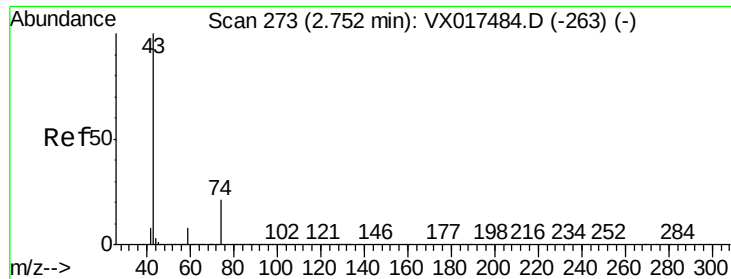
58 32.8 24.2 36.4



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

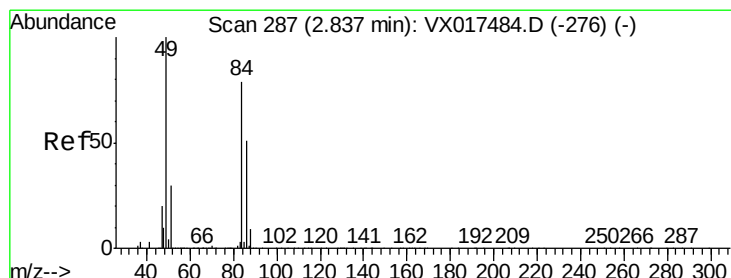
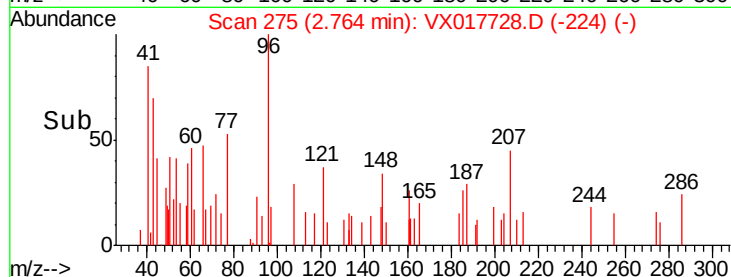
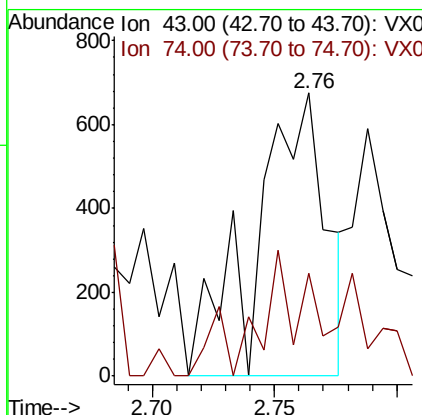
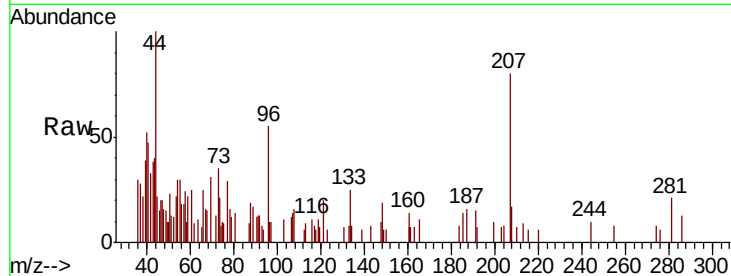




#18
Methyl Acetate
Concen: 0.224 ug/l
RT: 2.76 min Scan# 275
Delta R.T. 0.01 min
Lab File: VX017728.D
Acq: 01 Aug 2020 02:31

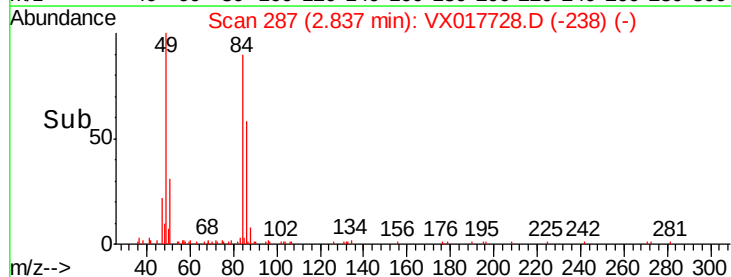
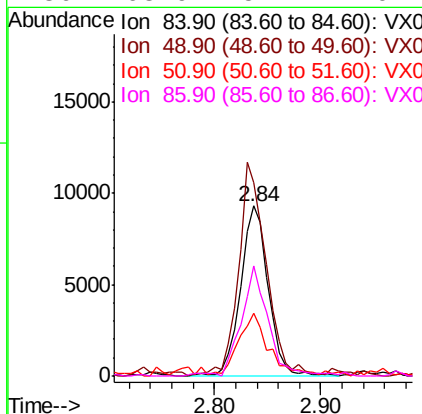
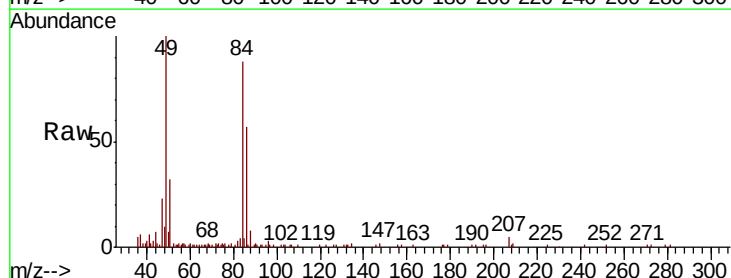
Instrument :
MSVOA_X
ClientSampled :
BFB

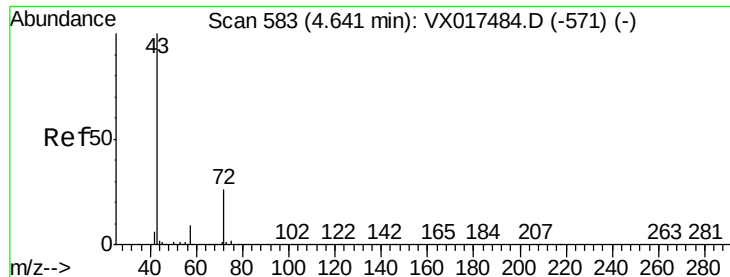
Tot Ion: 43 Resp: 1357
Ion Ratio Lower Upper
43 100
74 27.9 17.5 26.3#



#20
Methylene Chloride
Concen: 2.279 ug/l
RT: 2.84 min Scan# 287
Delta R.T. 0.00 min
Lab File: VX017728.D
Acq: 01 Aug 2020 02:31

Tgt Ion: 84 Resp: 16970
Ion Ratio Lower Upper
84 100
49 113.7 100.3 150.5
51 34.3 30.5 45.7
86 63.9 51.1 76.7





#25

2-Butanone

Concen: 1.088 ug/l

RT: 4.66 min Scan# 586

Delta R.T. 0.02 min

Lab File: VX017728.D

Acq: 01 Aug 2020 02:31

Instrument :

MSVOA_X

ClientSampled :

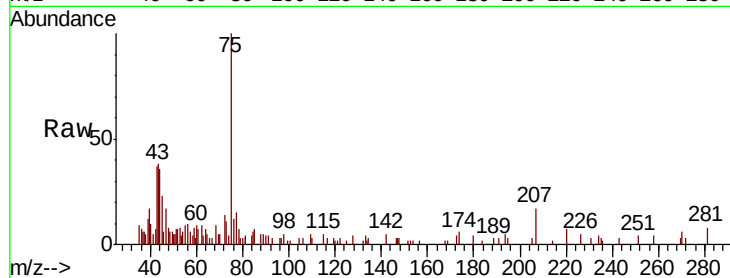
BFB

Tot Ion: 43 Resp: 3973

Ion Ratio Lower Upper

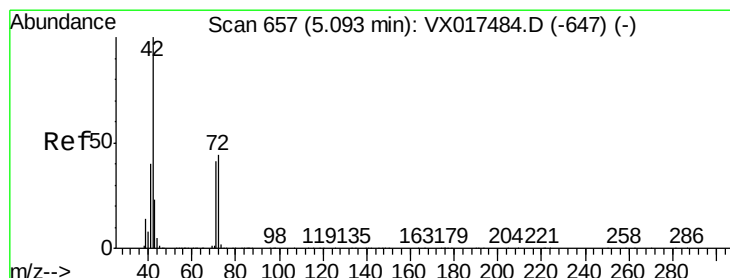
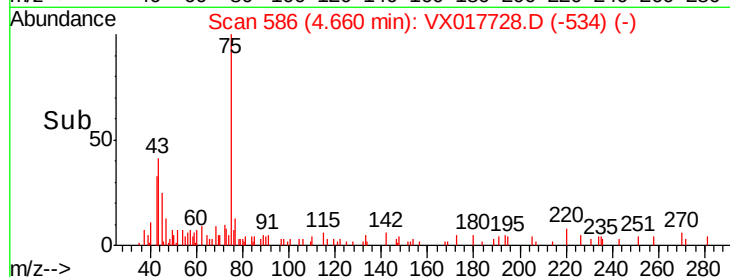
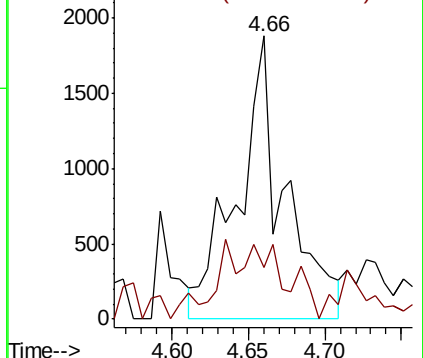
43 100

72 14.9 19.0 28.4#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#29

Tetrahydrofuran

Concen: 0.244 ug/l

RT: 5.10 min Scan# 659

Delta R.T. 0.01 min

Lab File: VX017728.D

Acq: 01 Aug 2020 02:31

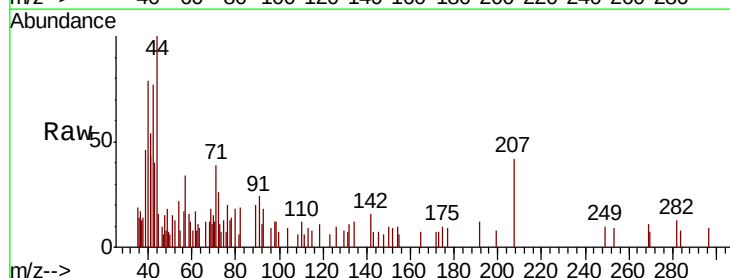
Tgt Ion: 42 Resp: 551

Ion Ratio Lower Upper

42 100

72 121.4 35.5 53.3#

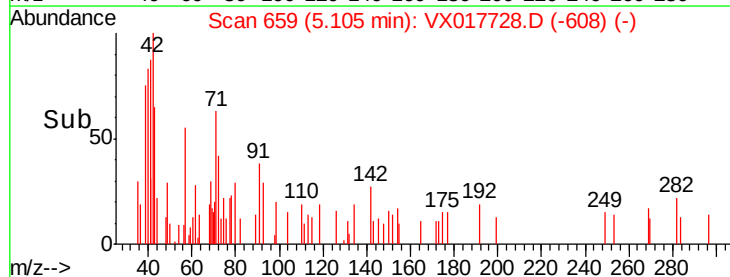
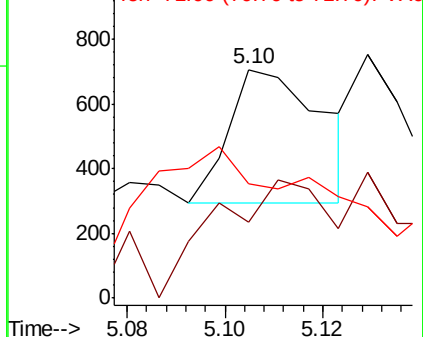
71 228.9 33.0 49.4#

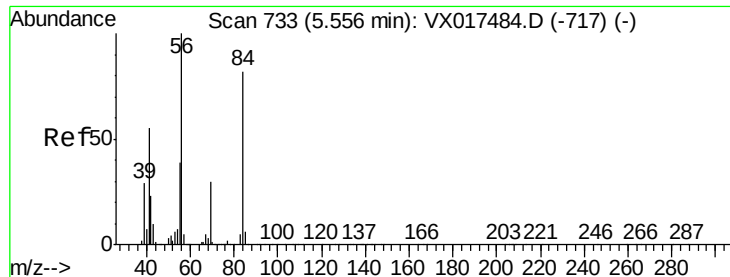


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0

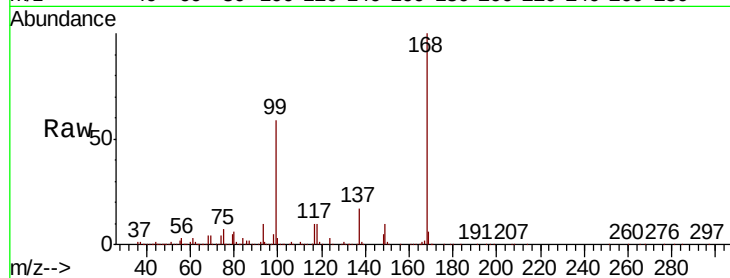




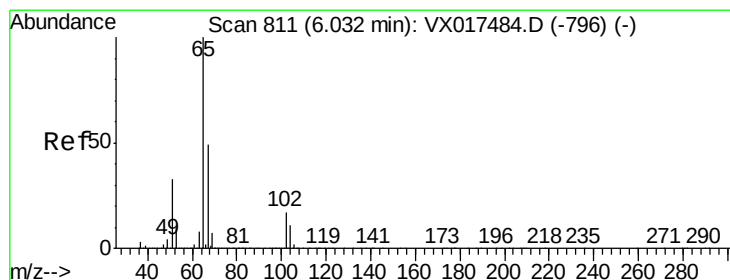
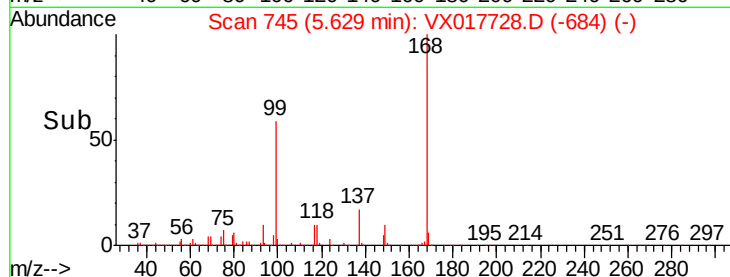
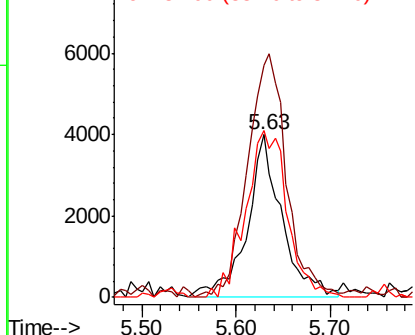
#31
Cyclohexane
Concen: 1.439 ug/l
RT: 5.63 min Scan# 745
Delta R.T. 0.07 min
Lab File: VX017728.D
Acq: 01 Aug 2020 02:31

Instrument :
MSVOA_X
ClientSampleId :
BFB

Tot Ion: 56 Resp: 10367
Ion Ratio Lower Upper
56 100
69 139.7 24.2 36.4#
84 102.7 69.0 103.6

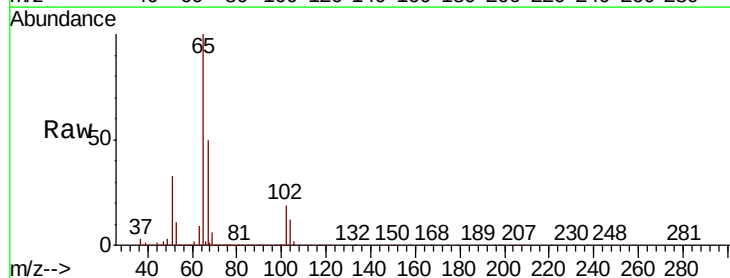


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

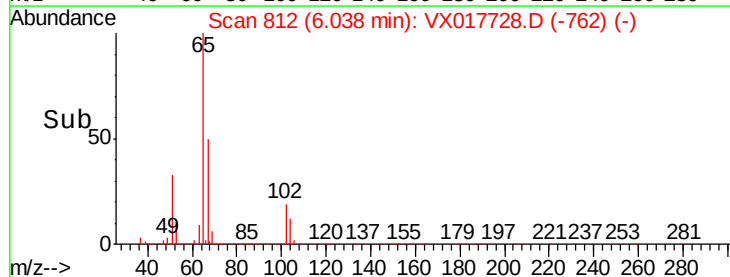
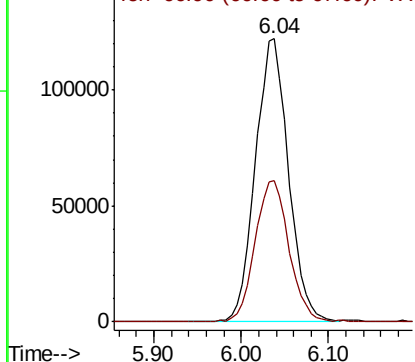


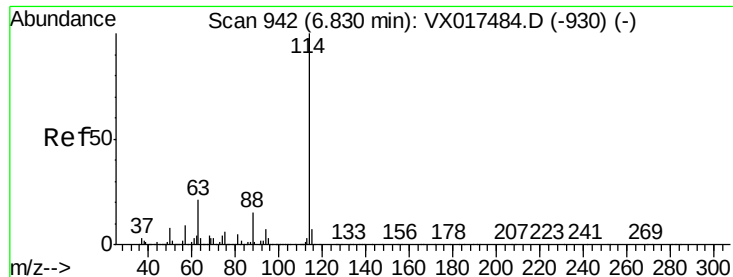
#33
1,2-Dichloroethane-d4
Concen: 54.810 ug/l
RT: 6.04 min Scan# 812
Delta R.T. 0.01 min
Lab File: VX017728.D
Acq: 01 Aug 2020 02:31

Tgt Ion: 65 Resp: 320132
Ion Ratio Lower Upper
65 100
67 51.0 0.0 102.8



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: 6.84 min Scan# 943

Delta R.T. 0.01 min

Lab File: VX017728.D

Acq: 01 Aug 2020 02:31

Instrument :

MSVOA_X

ClientSampleId :

BFB

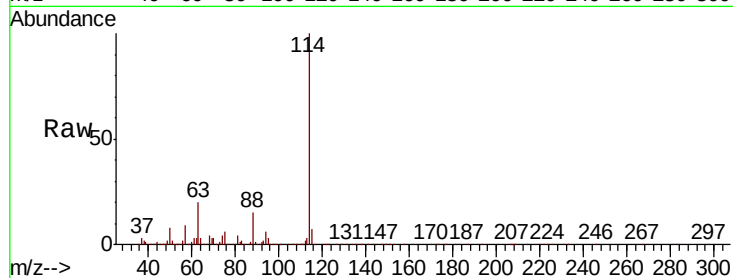
Tot Ion:114 Resp: 756042

Ion Ratio Lower Upper

114 100

63 20.1 0.0 40.6

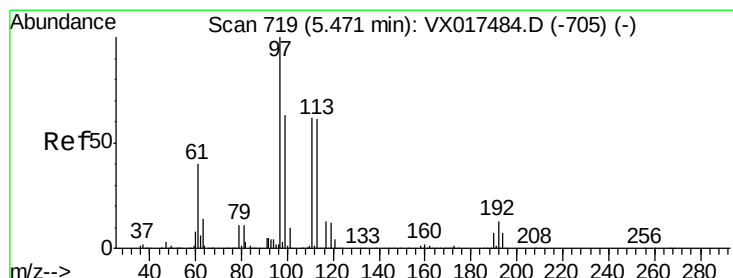
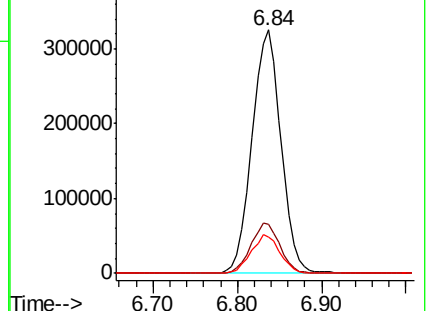
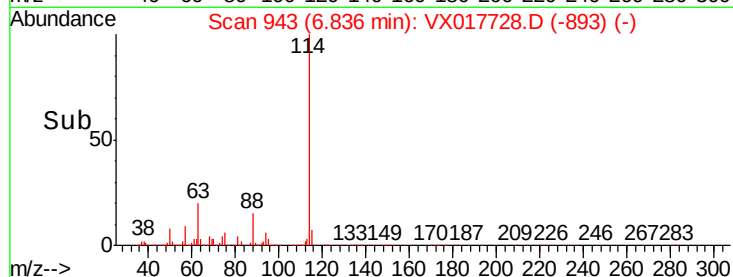
88 15.0 0.0 33.4



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: 53.764 ug/l

RT: 5.47 min Scan# 719

Delta R.T. -0.00 min

Lab File: VX017728.D

Acq: 01 Aug 2020 02:31

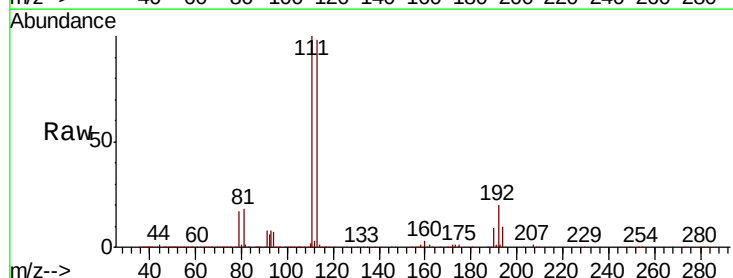
Tgt Ion:113 Resp: 271853

Ion Ratio Lower Upper

113 100

111 100.2 80.7 121.1

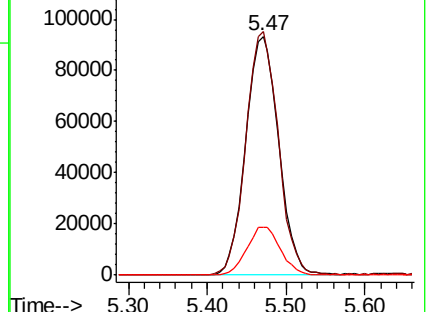
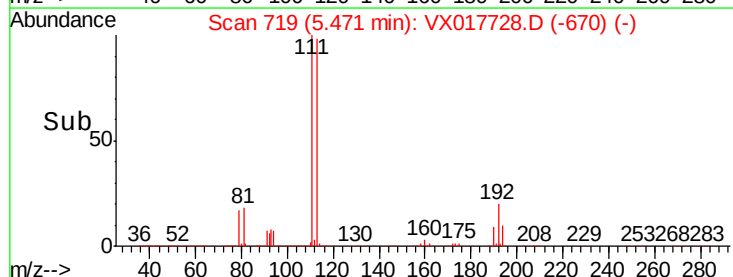
192 20.5 16.9 25.3

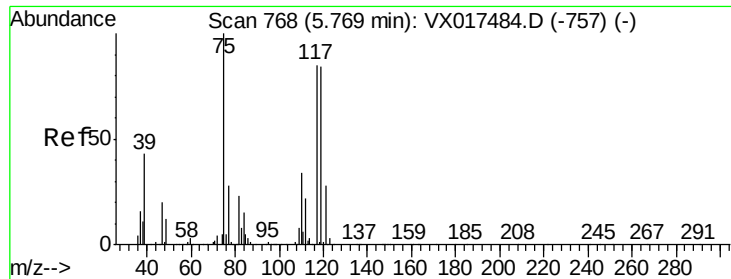


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

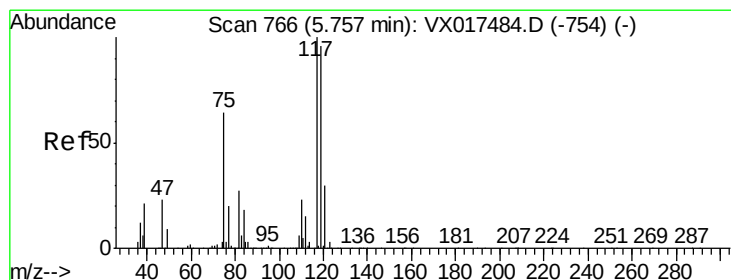
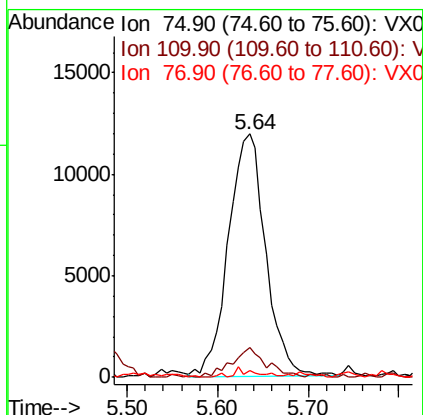
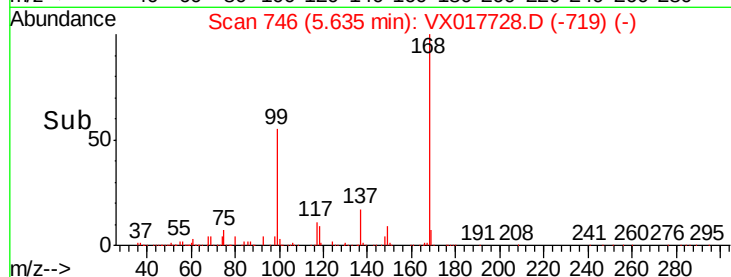
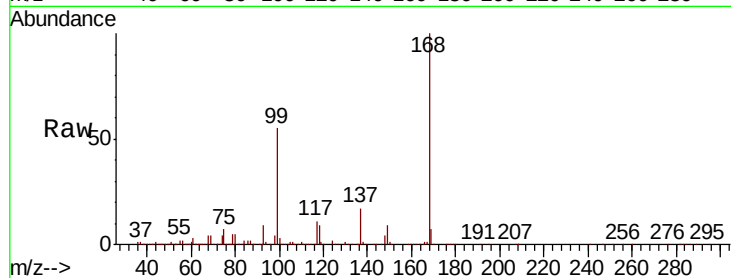




#36
 1,1-Dichloropropene
 Concen: 4.724 ug/l
 RT: 5.64 min Scan# 746
 Delta R.T. -0.13 min
 Lab File: VX017728.D
 Acq: 01 Aug 2020 02:31

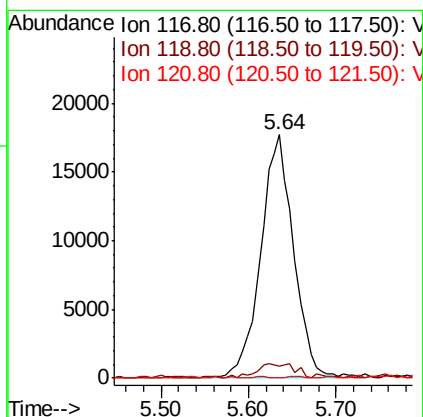
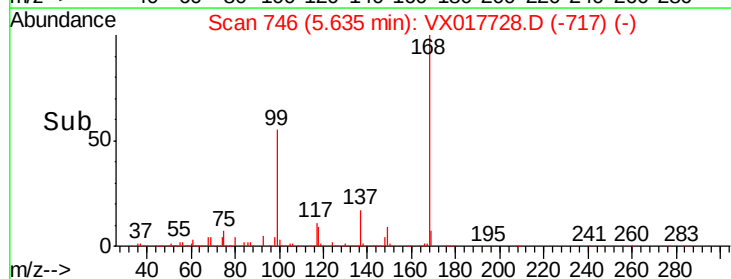
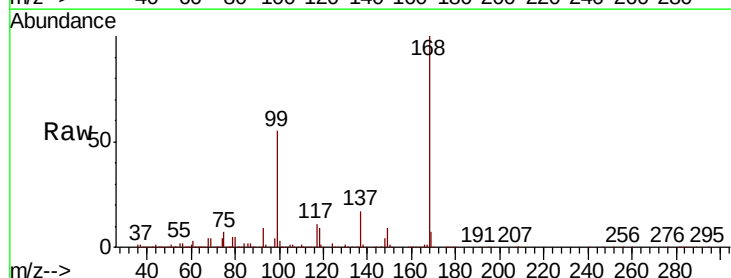
Instrument :
 MSVOA_X
 ClientSampleId :
 BFB

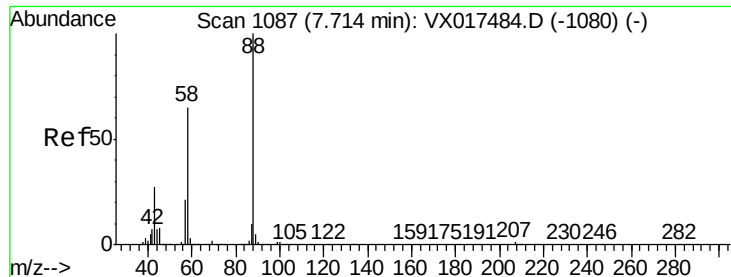
Tot Ion	Ratio	Lower	Upper
75	100		
110	11.4	18.1	54.3#
77	2.0	24.6	37.0#



#38
 Carbon Tetrachloride
 Concen: 5.263 ug/l
 RT: 5.64 min Scan# 746
 Delta R.T. -0.12 min
 Lab File: VX017728.D
 Acq: 01 Aug 2020 02:31

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.9	75.4	113.0#
121	0.0	24.3	36.5#





#49

1,4-Dioxane

Concen: 1.375 ug/l

RT: 7.72 min Scan# 1088

Delta R.T. 0.01 min

Lab File: VX017728.D

Acq: 01 Aug 2020 02:31

Instrument :

MSVOA_X

ClientSampleId :

BFB

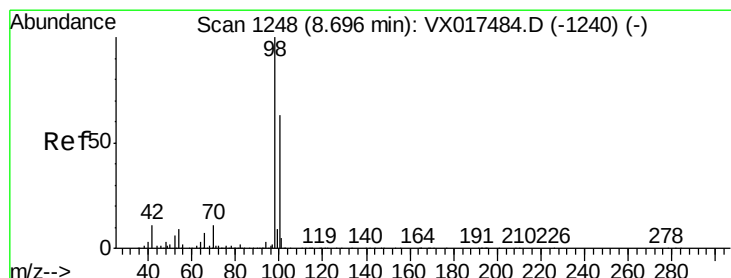
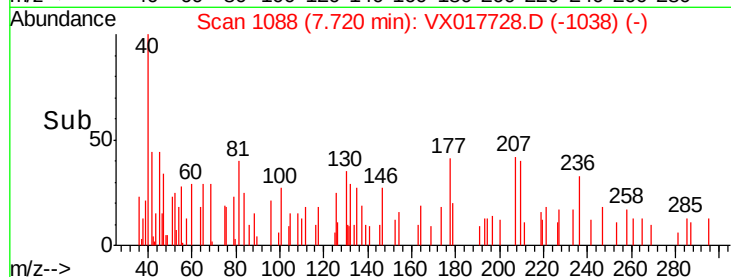
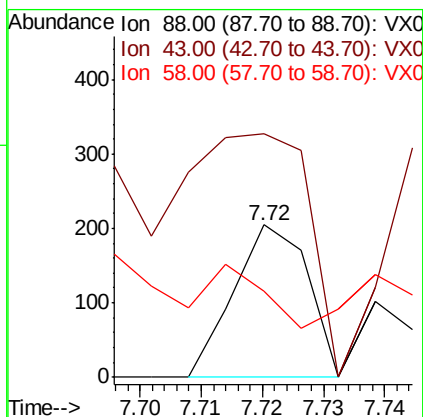
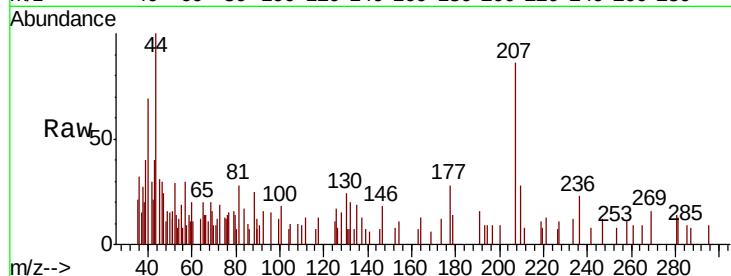
Tot Ion: 88 Resp: 171

Ion Ratio Lower Upper

88 100

43 263.2 27.8 41.6#

58 0.0 58.3 87.5#



#50

Toluene-d8

Concen: 48.101 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX017728.D

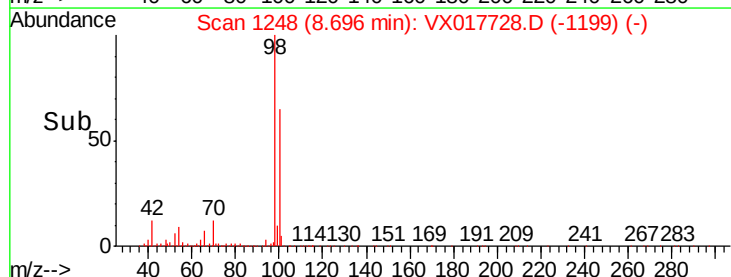
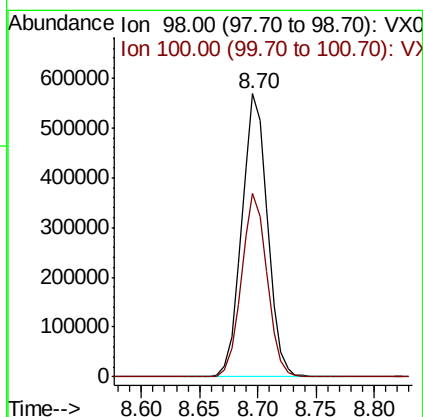
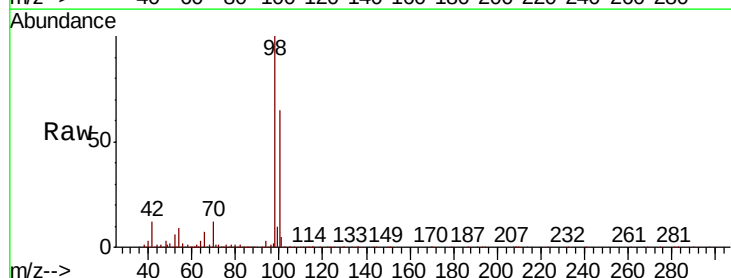
Acq: 01 Aug 2020 02:31

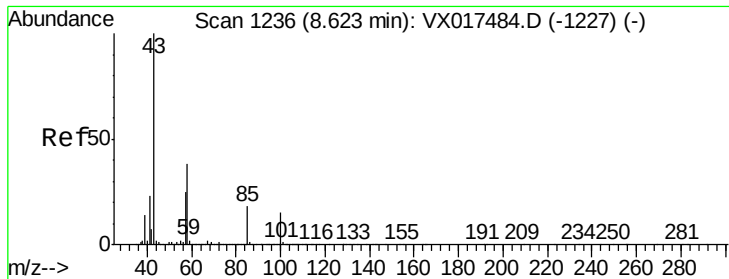
Tgt Ion: 98 Resp: 877415

Ion Ratio Lower Upper

98 100

100 64.5 52.3 78.5

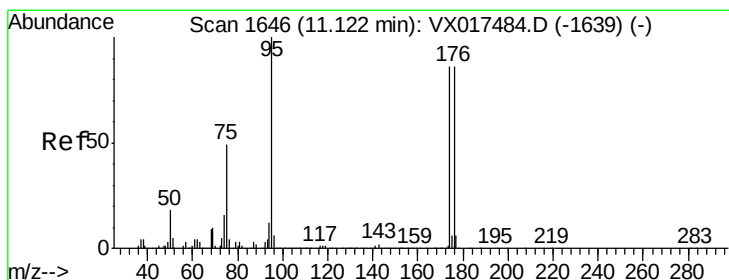
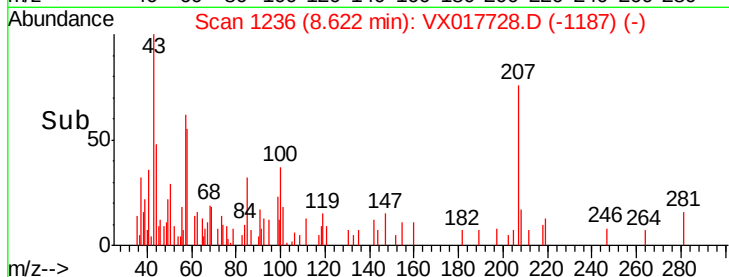
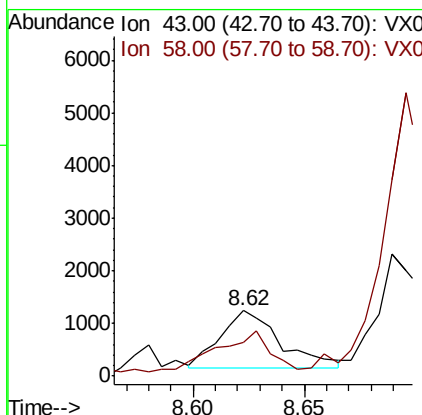
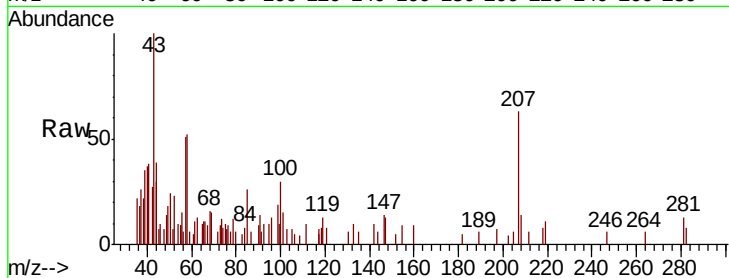




#51
4-Methyl-2-Pentanone
Concen: 0.260 ug/l
RT: 8.62 min Scan# 1236
Delta R.T. -0.00 min
Lab File: VX017728.D
Acq: 01 Aug 2020 02:31

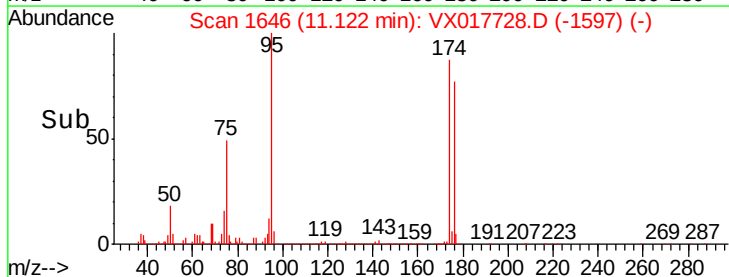
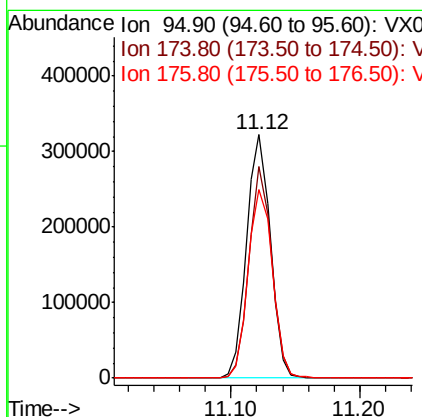
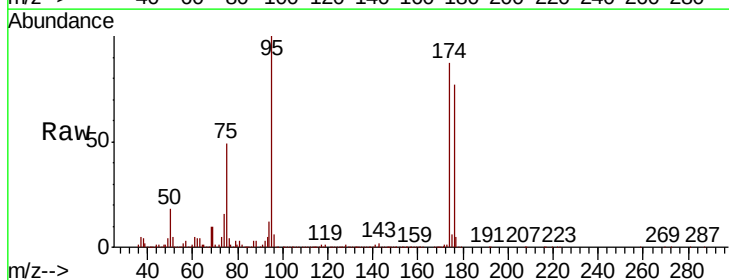
Instrument :
MSVOA_X
ClientSampled :
BFB

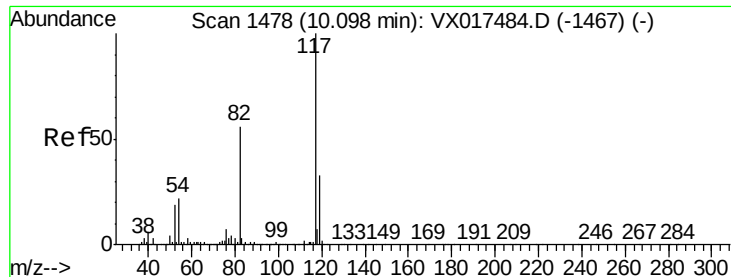
Tot Ion: 43 Resp: 2028
Ion Ratio Lower Upper
43 100
58 80.7 31.0 46.4#



#62
4-Bromofluorobenzene
Concen: 55.823 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. -0.00 min
Lab File: VX017728.D
Acq: 01 Aug 2020 02:31

Tgt Ion: 95 Resp: 407516
Ion Ratio Lower Upper
95 100
174 83.0 0.0 169.0
176 79.5 0.0 161.0

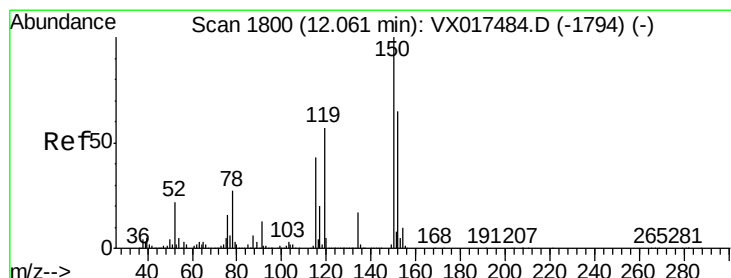
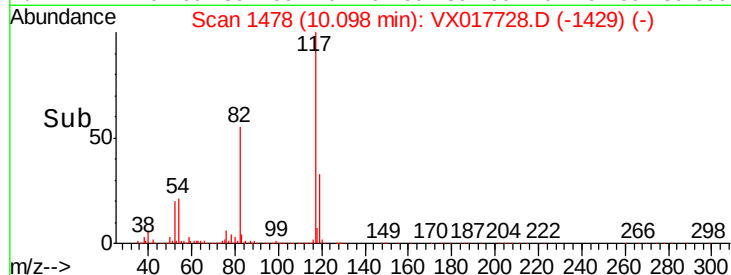
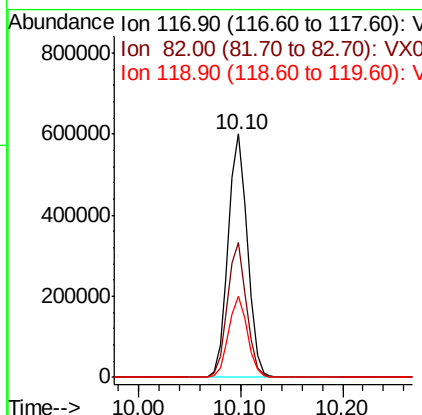
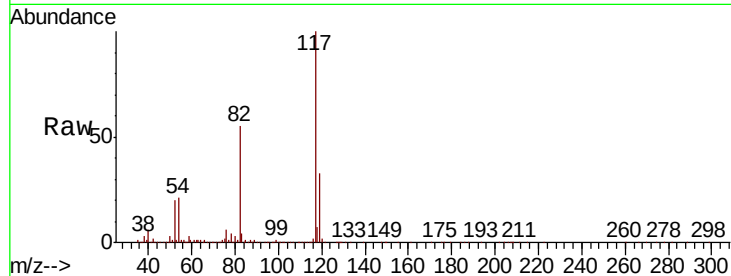




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX017728.D
Acq: 01 Aug 2020 02:31

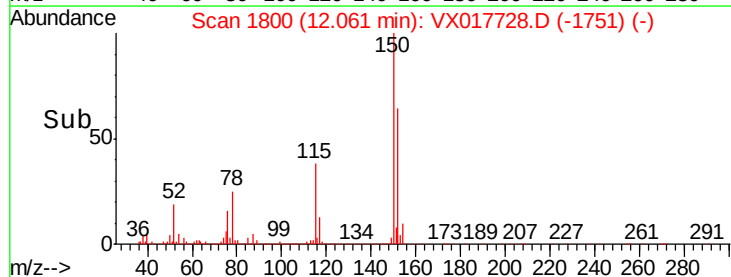
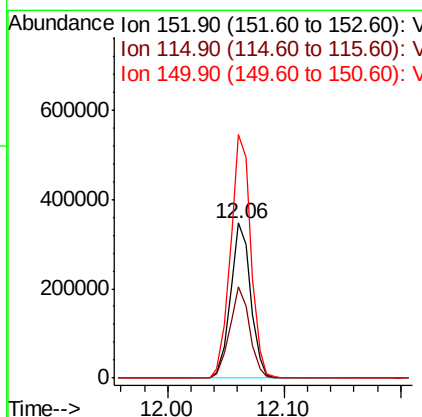
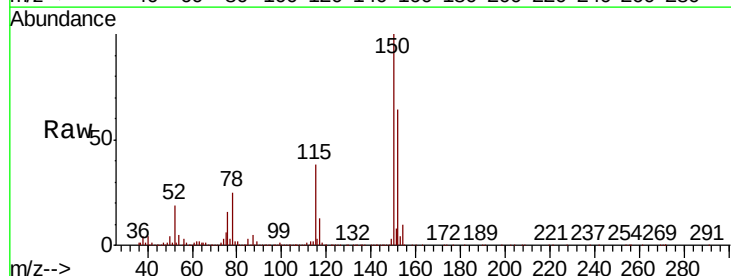
Instrument :
MSVOA_X
ClientSampled :
BFB

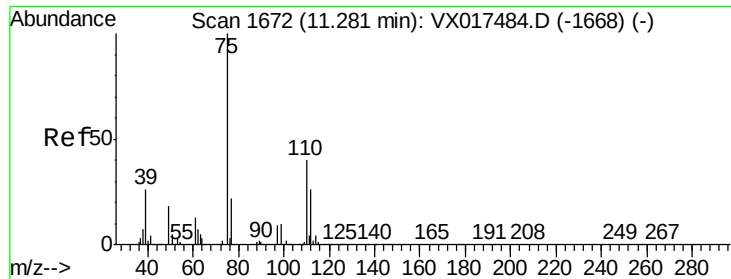
Tot Ion:117 Resp: 779435
Ion Ratio Lower Upper
117 100
82 55.3 44.0 66.0
119 33.2 25.4 38.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. -0.00 min
Lab File: VX017728.D
Acq: 01 Aug 2020 02:31

Tgt Ion:152 Resp: 417824
Ion Ratio Lower Upper
152 100
115 58.0 65.5 196.6#
150 158.2 0.0 412.6





#76

1,2,3-Trichloropropane

Concen: 23.362 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX017728.D

Acq: 01 Aug 2020 02:31

Instrument :

MSVOA_X

ClientSampleId :

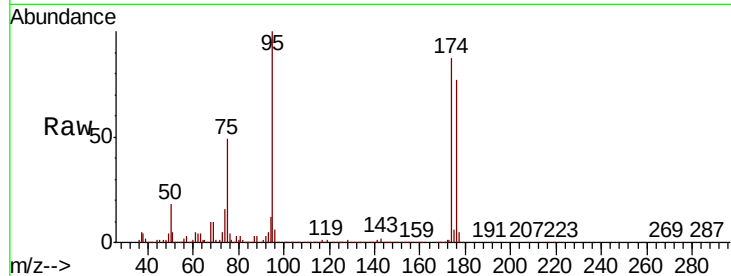
BFB

Tot Ion: 75 Resp: 200792

Ion Ratio Lower Upper

75 100

77 1.5 21.8 65.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

11.12

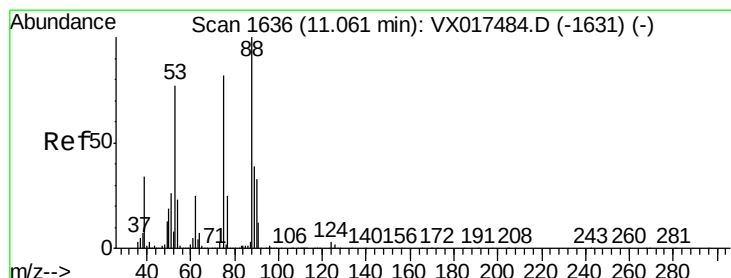
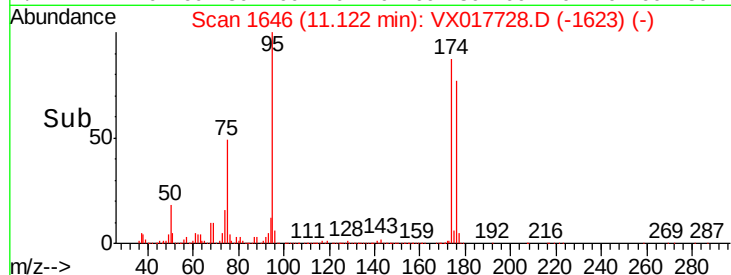
150000

100000

50000

0

Time--> 11.05 11.10 11.15 11.20



#81

trans-1,4-Dichloro-2-butene

Concen: 58.867 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX017728.D

Acq: 01 Aug 2020 02:31

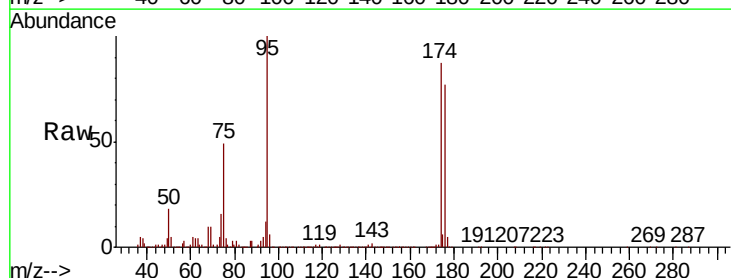
Tgt Ion: 75 Resp: 200792

Ion Ratio Lower Upper

75 100

53 0.1 75.9 113.9#

89 0.1 37.8 56.6#



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

11.12

200000

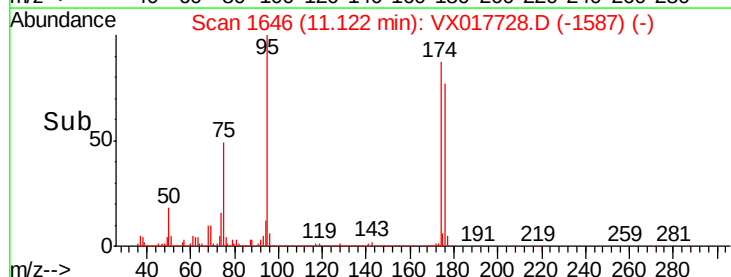
150000

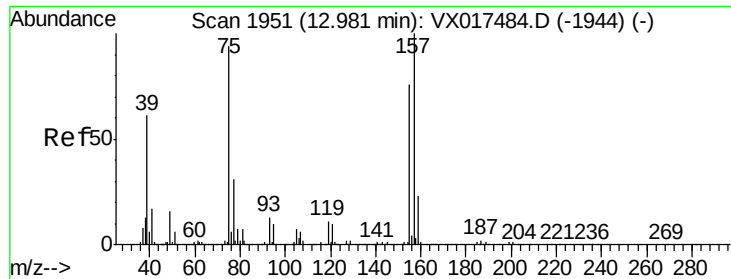
100000

50000

0

Time--> 11.05 11.10 11.15 11.20





#92
 1,2-Dibromo-3-Chloropropane
 Concen: 2.682 ug/l
 RT: 12.98 min Scan# 1951
 Delta R.T. 0.00 min
 Lab File: VX017728.D
 Acq: 01 Aug 2020 02:31

Instrument :
 MSVOA_X
 ClientSampleId :
 BFB

Tot Ion	Ratio	Lower	Upper
75	100		
155	20.7	42.3	126.8#
157	12.5	54.3	162.9#

