

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX072720\
 Data File : VX017631.D
 Acq On : 27 Jul 2020 20:49
 Operator : JC/SP
 Sample : L3421-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TRIP-BLANK

Quant Time: Jul 28 01:37:31 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	470670	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	816437	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	811656	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	429053	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	316598	52.37	ug/l	0.00
Spiked Amount			Recovery	=	104.74%	
35) Dibromofluoromethane	5.47	113	264989	48.53	ug/l	0.00
Spiked Amount			Recovery	=	97.06%	
50) Toluene-d8	8.70	98	939668	47.70	ug/l	0.00
Spiked Amount			Recovery	=	95.40%	
62) 4-Bromofluorobenzene	11.12	95	403871	51.23	ug/l	0.00
Spiked Amount			Recovery	=	102.46%	

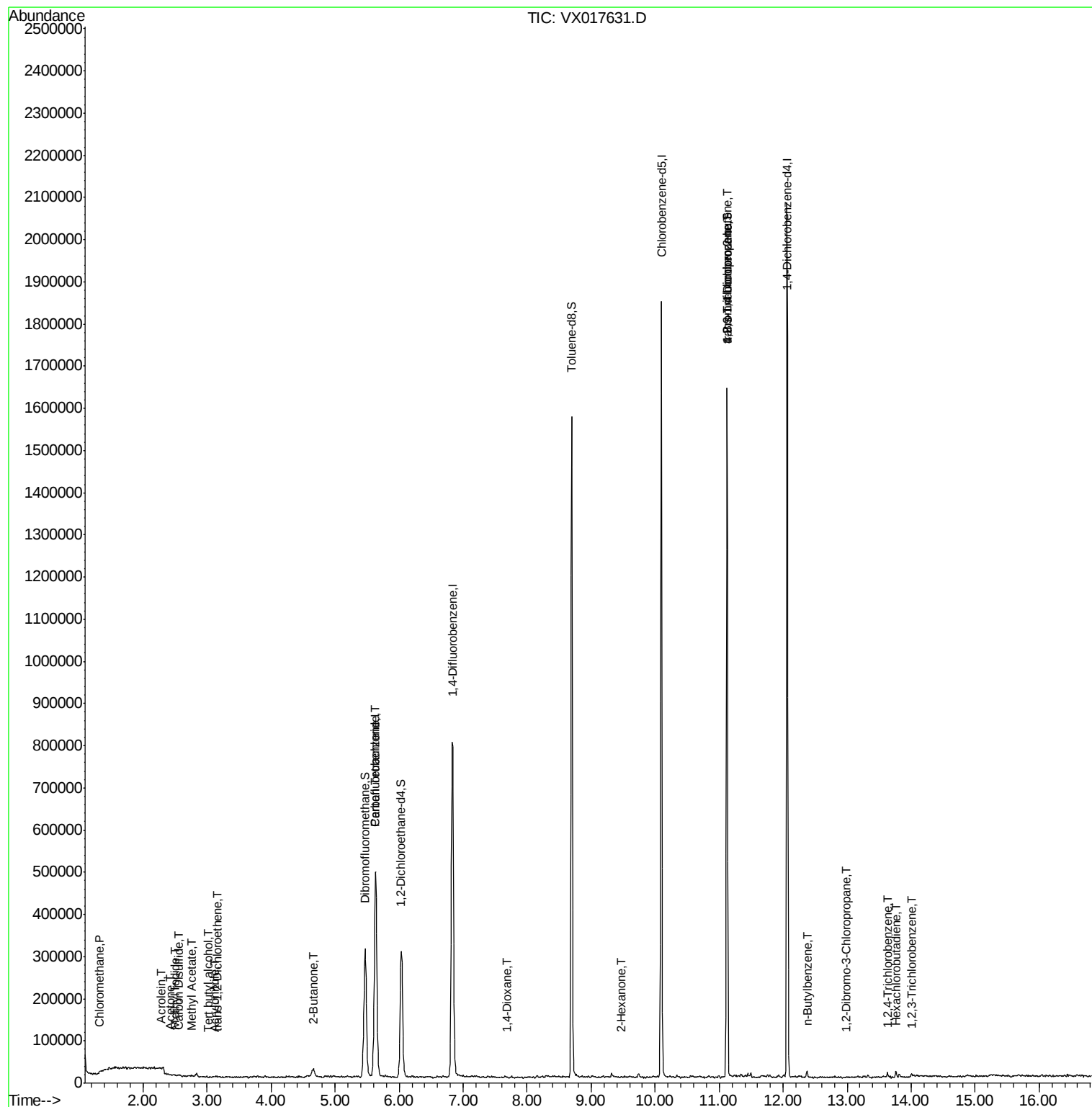
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.18	85	677	Below Cal	#	63
3) Chloromethane	1.32	50	1434	0.612	ug/l #	62
5) Bromomethane	1.65	94	700	Below Cal	#	46
6) Chloroethane	1.71	64	649	Below Cal	#	52
8) Diethyl Ether	2.07	74	553	Below Cal		91
10) Methyl Iodide	2.50	142	1687	0.258	ug/l #	69
11) Tert butyl alcohol	3.01	59	1273	0.999	ug/l #	37
13) Acrolein	2.27	56	907	5.065	ug/l #	25
15) Acrylonitrile	3.11	53	1386	0.504	ug/l #	19
16) Acetone	2.42	43	2553	0.959	ug/l	98
17) Carbon Disulfide	2.55	76	5473	0.370	ug/l #	94
18) Methyl Acetate	2.75	43	2187	0.349	ug/l	97
20) Methylene Chloride	2.84	84	3791	Below Cal	#	84
21) trans-1,2-Dichloroethene	3.17	96	1383	0.266	ug/l #	11
25) 2-Butanone	4.67	43	1334	0.353	ug/l #	83
38) Carbon Tetrachloride	5.63	117	47473	4.992	ug/l #	17
49) 1,4-Dioxane	7.69	88	189	1.407	ug/l #	1
59) 2-Hexanone	9.48	43	1379	0.217	ug/l	68
76) 1,2,3-Trichloropropane	11.12	75	206672	23.417	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.12	75	206672	59.005	ug/l #	12
89) n-Butylbenzene	12.37	91	4802	0.202	ug/l	94
92) 1,2-Dibromo-3-Chloropropan	12.99	75	794	2.866	ug/l #	50
93) 1,2,4-Trichlorobenzene	13.63	180	3005	0.317	ug/l	85
94) Hexachlorobutadiene	13.76	225	1671	0.382	ug/l	71
96) 1,2,3-Trichlorobenzene	14.01	180	1936	0.207	ug/l	80

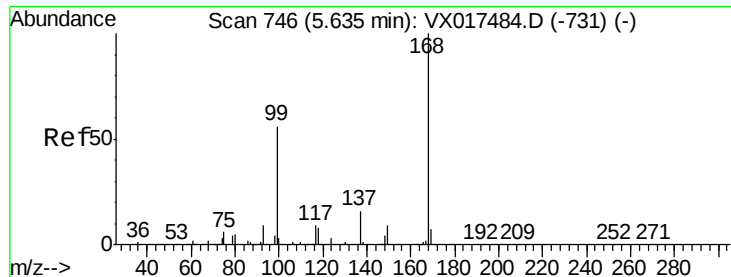
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX072720\
Data File : VX017631.D
Acq On : 27 Jul 2020 20:49
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Misc : 5.0mL/MSVOA X/WATER
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Instrument :
MSVOA_X
ClientSampleId :
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Quant Time: Jul 28 01:37:31 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: VX017631.D

Acq: 27 Jul 2020 20:49

Instrument :

MSVOA_X

ClientSampleId :

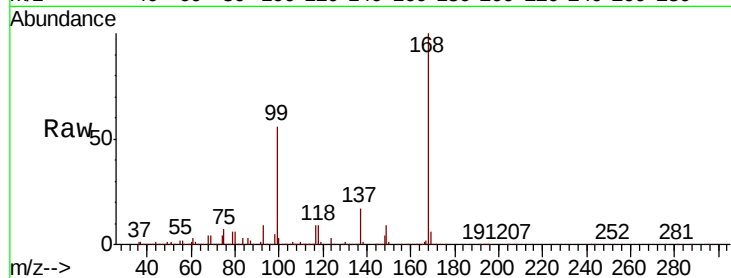
TRIP-BLANK

Tot Ion:168 Resp: 470670

Ion Ratio Lower Upper

168 100

99 56.3 43.4 65.2



Abundance Ion 167.90 (167.60 to 168.60): VX0

Ion 98.90 (98.60 to 99.60): VX0

5.64

150000

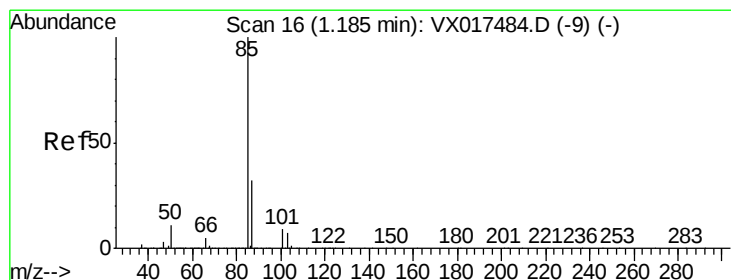
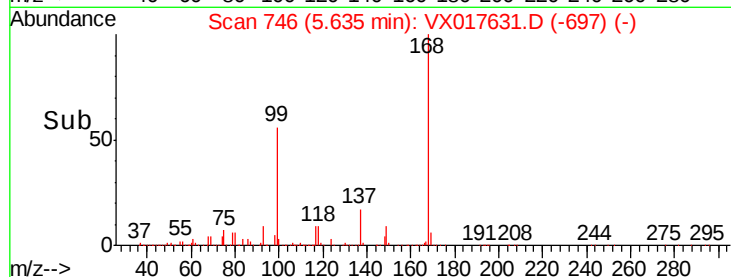
100000

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: VX017631.D

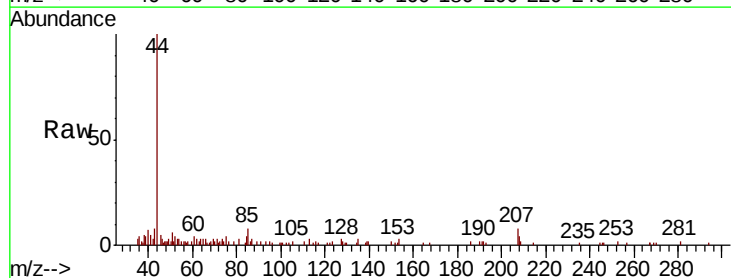
Acq: 27 Jul 2020 20:49

Tgt Ion: 85 Resp: 677

Ion Ratio Lower Upper

85 100

87 11.7 16.1 48.3#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.18

800

600

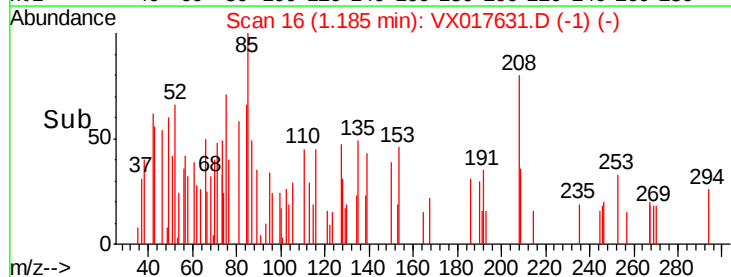
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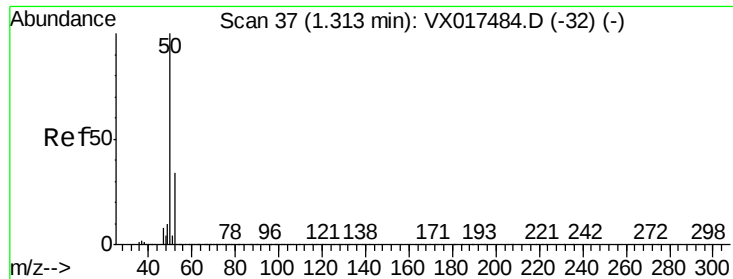
200

0

Time-->

1.15 1.20





#3

Chloromethane

Concen: 0.612 ug/l

RT: 1.32 min Scan# 38

Delta R.T. 0.01 min

Lab File: VX017631.D

Acq: 27 Jul 2020 20:49

Instrument :

MSVOA_X

ClientSampled :

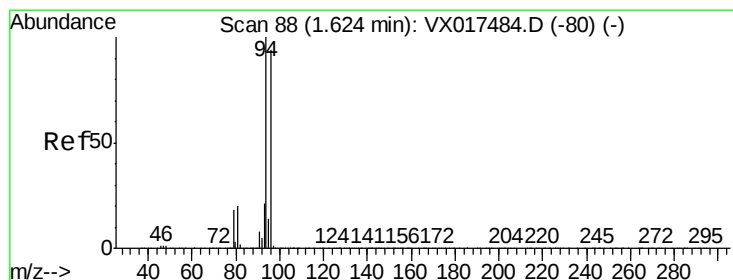
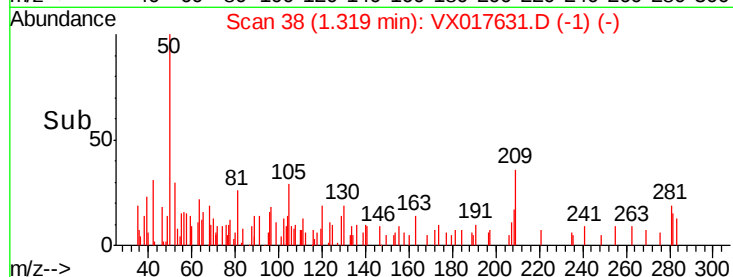
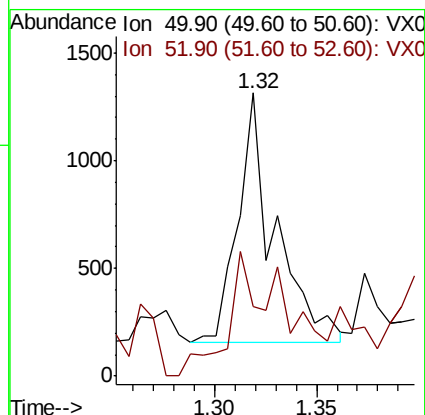
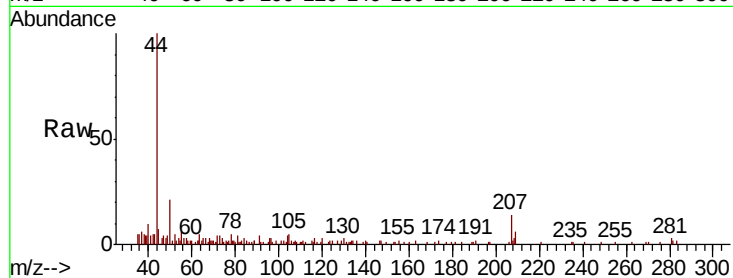
TRIP-BLANK

Tot Ion: 50 Resp: 1434

Ion Ratio Lower Upper

50 100

52 11.1 25.9 38.9#



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 92

Delta R.T. 0.02 min

Lab File: VX017631.D

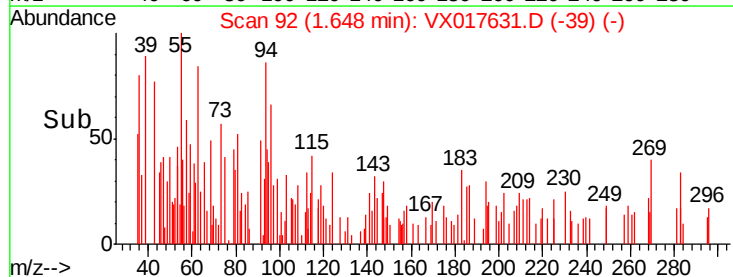
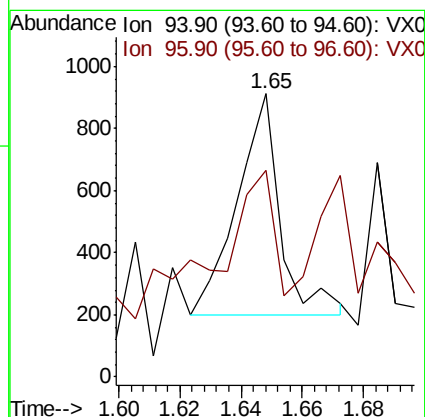
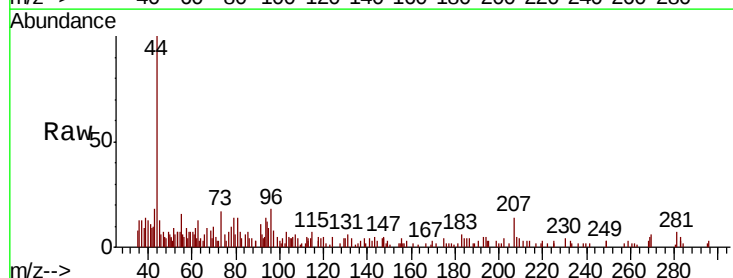
Acq: 27 Jul 2020 20:49

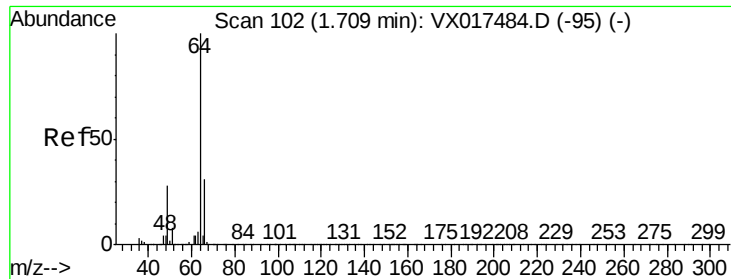
Tgt Ion: 94 Resp: 700

Ion Ratio Lower Upper

94 100

96 40.7 74.1 111.1#





#6

Chloroethane

Concen: Below Cal

RT: 1.71 min Scan# 102

Delta R.T. -0.00 min

Lab File: VX017631.D

Acq: 27 Jul 2020 20:49

Instrument :

MSVOA_X

ClientSampleId :

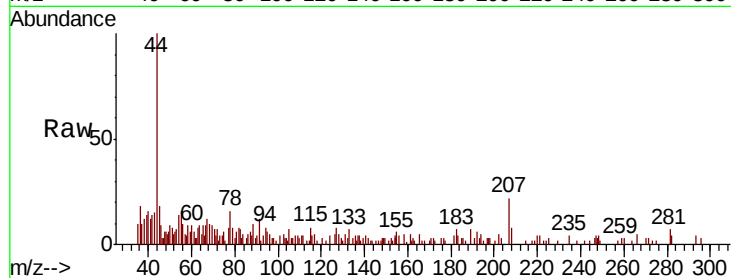
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Tot Ion: 64 Resp: 649

Ion Ratio Lower Upper

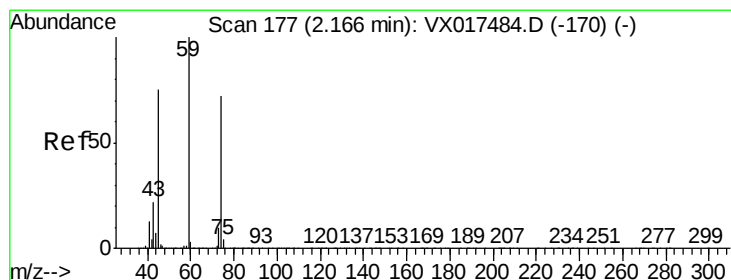
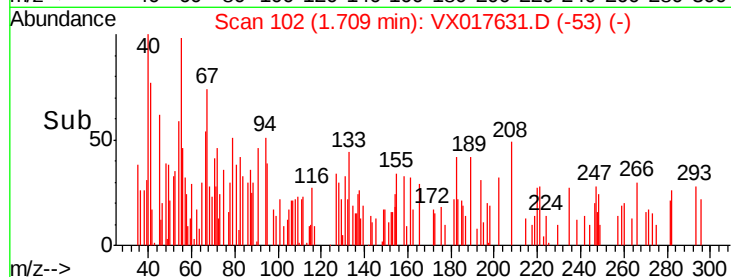
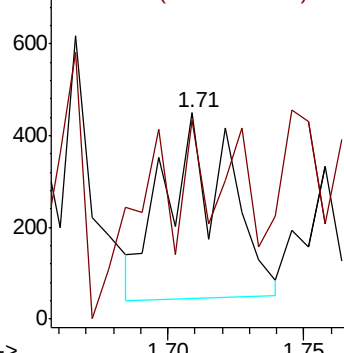
64 100

66 57.4 24.9 37.3#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#8

Diethyl Ether

Concen: Below Cal

RT: 2.07 min Scan# 162

Delta R.T. -0.09 min

Lab File: VX017631.D

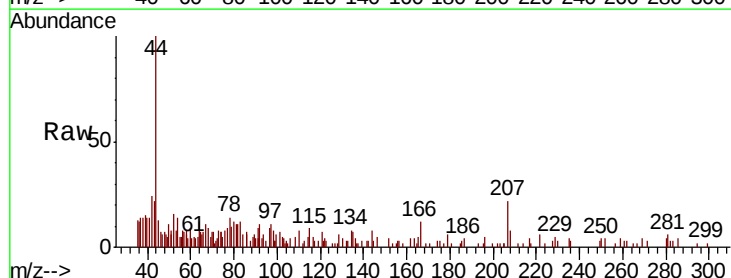
Acq: 27 Jul 2020 20:49

Tgt Ion: 74 Resp: 553

Ion Ratio Lower Upper

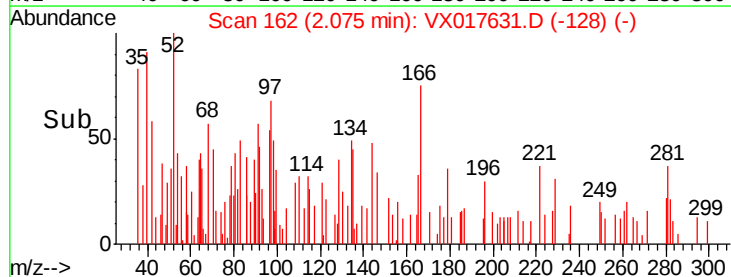
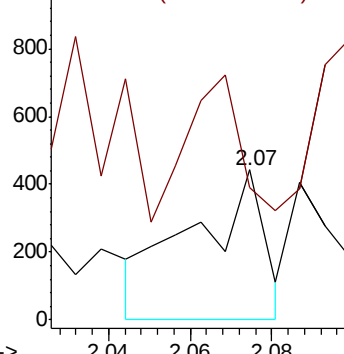
74 100

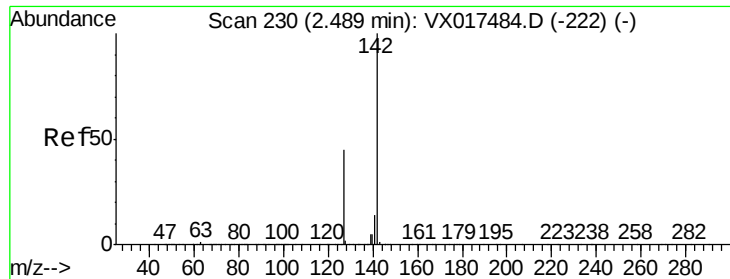
45 92.2 50.8 152.5



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

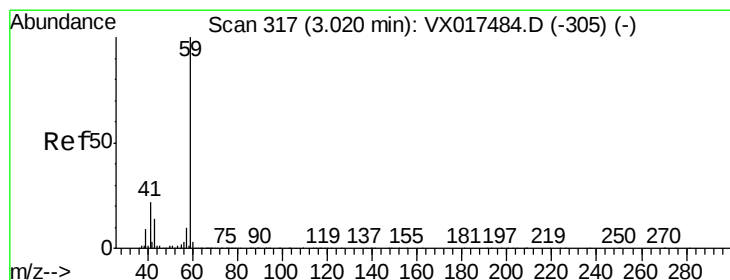
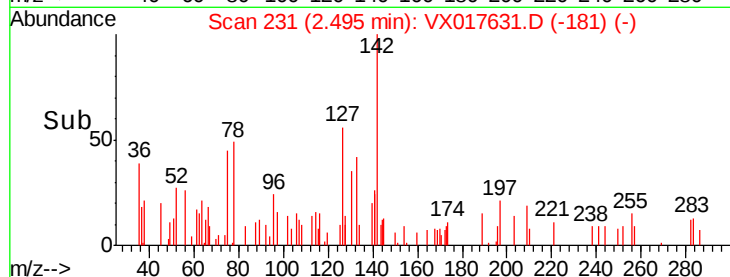
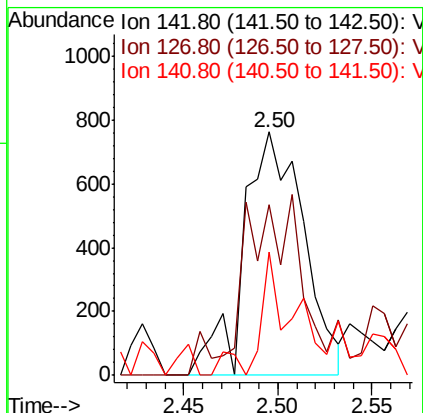
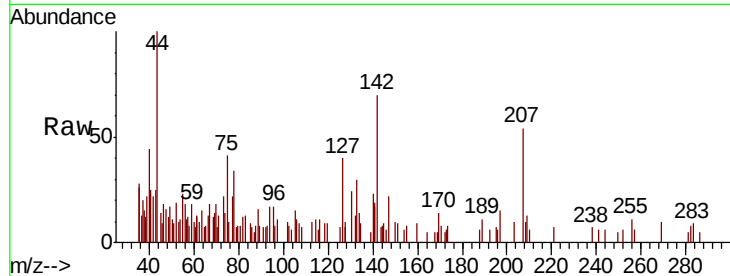




#10
Methyl Iodide
Concen: 0.258 ug/l
RT: 2.50 min Scan# 231
Delta R.T. 0.01 min
Lab File: VX017631.D
Acq: 27 Jul 2020 20:49

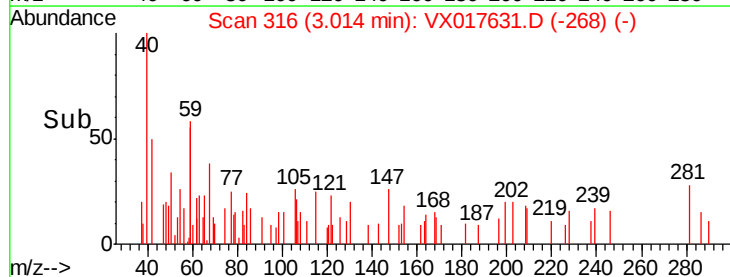
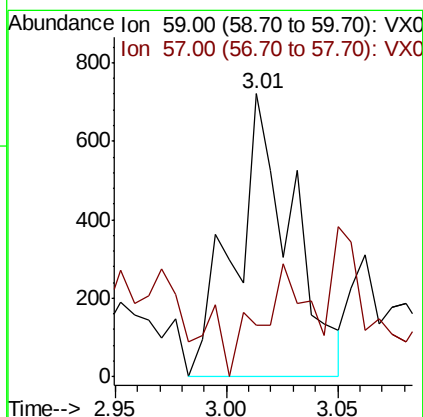
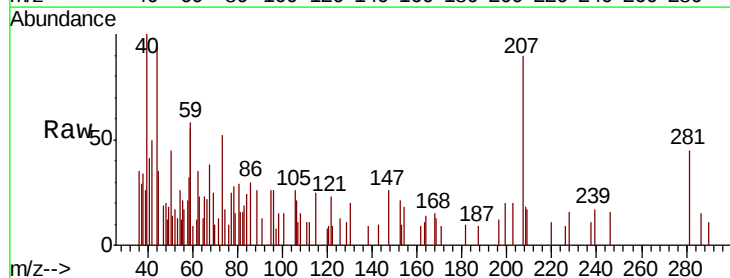
Instrument :
MSVOA_X
ClientSampleId :
TRIP-BLANK

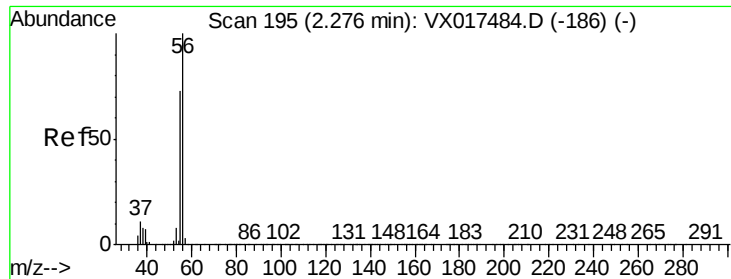
Tot Ion:142 Resp: 1687
Ion Ratio Lower Upper
142 100
127 64.3 35.9 53.9#
141 28.9 11.4 17.0#



#11
Tert butyl alcohol
Concen: 0.999 ug/l
RT: 3.01 min Scan# 316
Delta R.T. -0.01 min
Lab File: VX017631.D
Acq: 27 Jul 2020 20:49

Tgt Ion: 59 Resp: 1273
Ion Ratio Lower Upper
59 100
57 34.6 8.6 12.8#

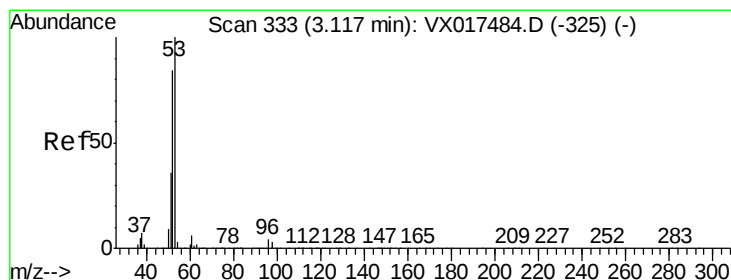
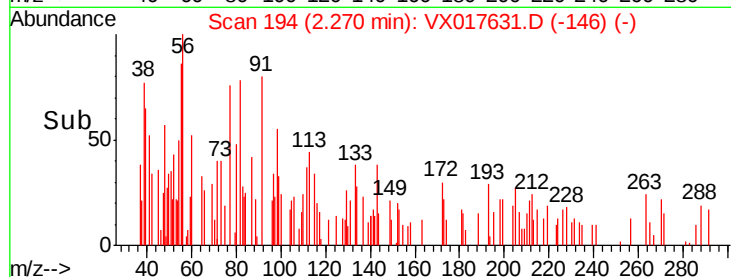
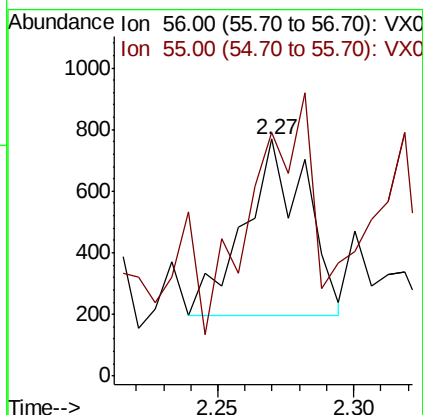
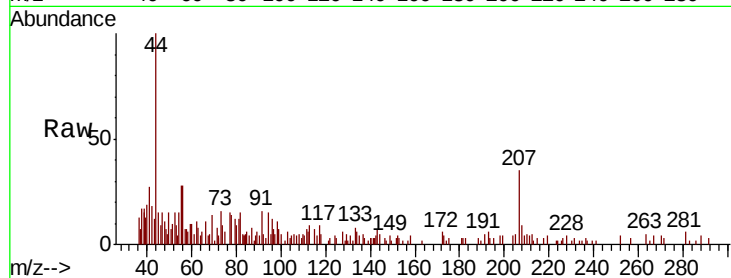




#13
Acrolein
Concen: 5.065 ug/l
RT: 2.27 min Scan# 194
Delta R.T. -0.01 min
Lab File: VX017631.D
Acq: 27 Jul 2020 20:49

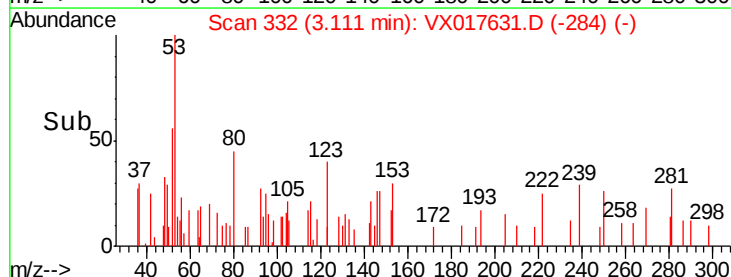
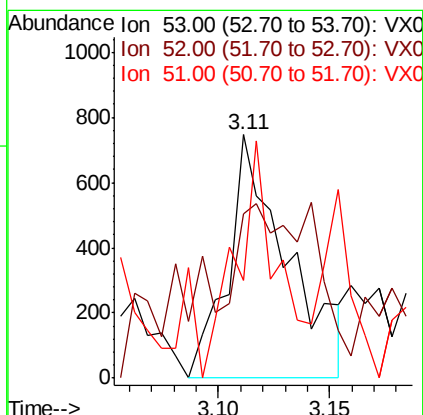
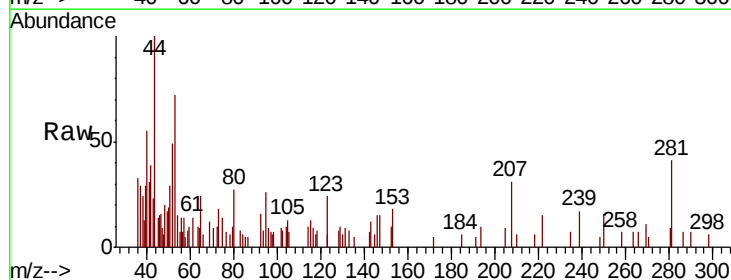
Instrument :
MSVOA_X
ClientSampled :
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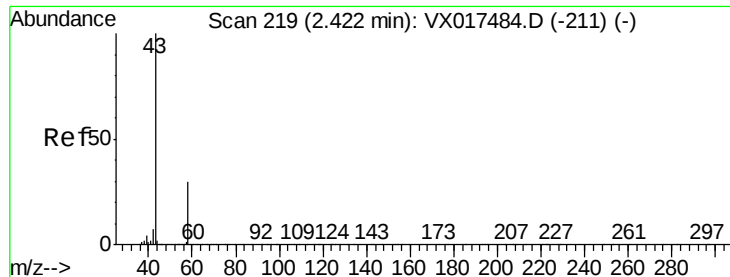
Tot Ion: 56 Resp: 907
Ion Ratio Lower Upper
56 100
55 134.1 57.4 86.2#



#15
Acrylonitrile
Concen: 0.504 ug/l
RT: 3.11 min Scan# 332
Delta R.T. -0.01 min
Lab File: VX017631.D
Acq: 27 Jul 2020 20:49

Tgt Ion: 53 Resp: 1386
Ion Ratio Lower Upper
53 100
52 0.0 66.6 99.8#
51 69.3 29.4 44.2#

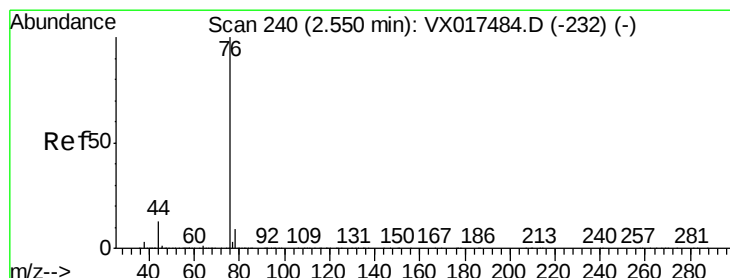
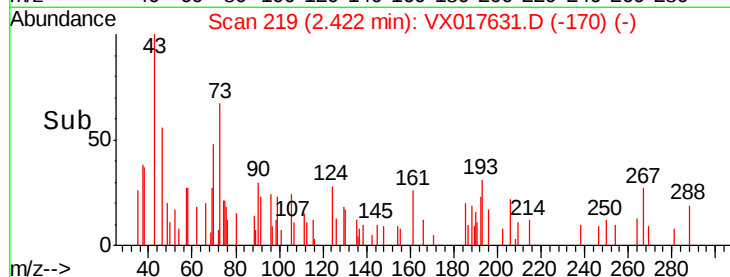
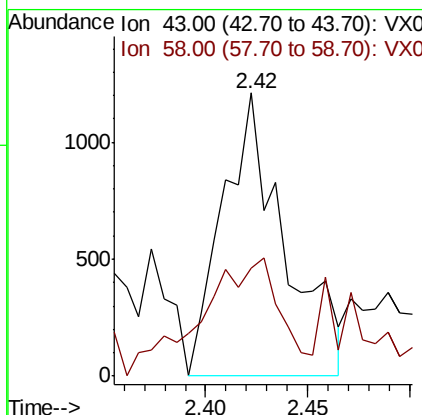
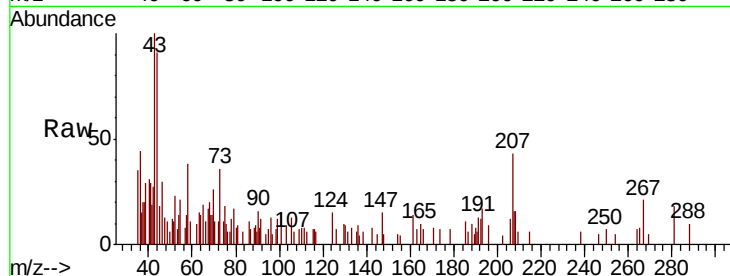




#16
Acetone
Concen: 0.959 ug/l
RT: 2.42 min Scan# 219
Delta R.T. -0.00 min
Lab File: VX017631.D
Acq: 27 Jul 2020 20:49

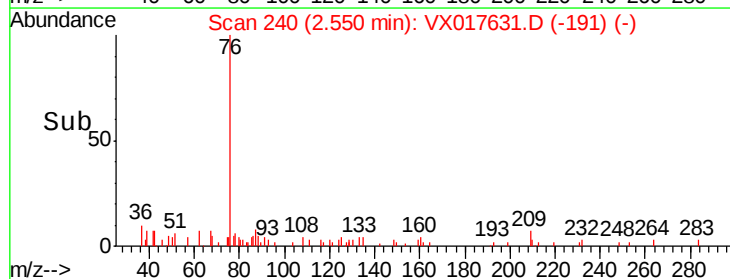
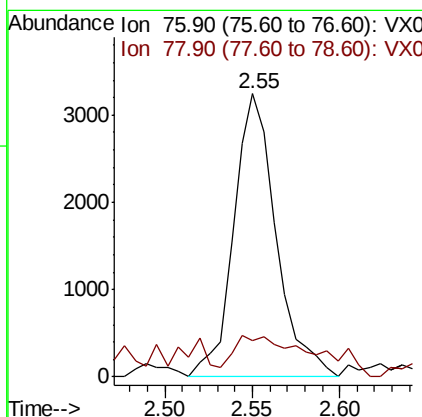
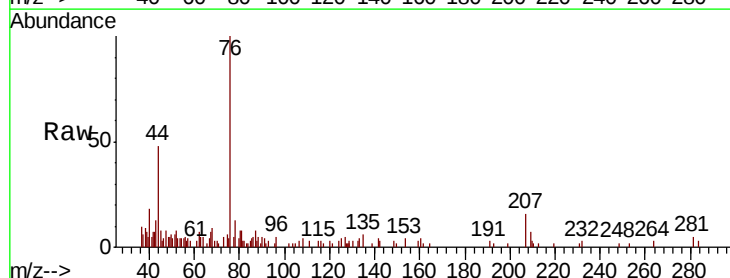
Instrument :
MSVOA_X
ClientSampled :
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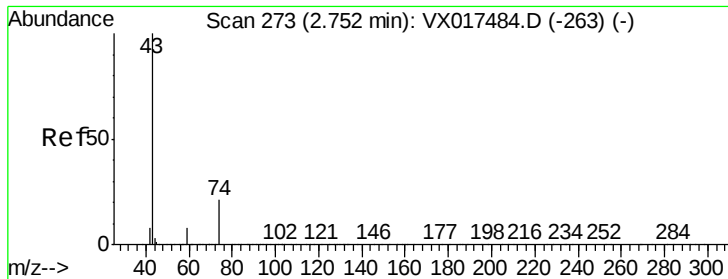
Tot Ion: 43 Resp: 2553
Ion Ratio Lower Upper
43 100
58 29.0 24.2 36.4



#17
Carbon Disulfide
Concen: 0.370 ug/l
RT: 2.55 min Scan# 240
Delta R.T. -0.00 min
Lab File: VX017631.D
Acq: 27 Jul 2020 20:49

Tgt Ion: 76 Resp: 5473
Ion Ratio Lower Upper
76 100
78 7.1 7.5 11.3#

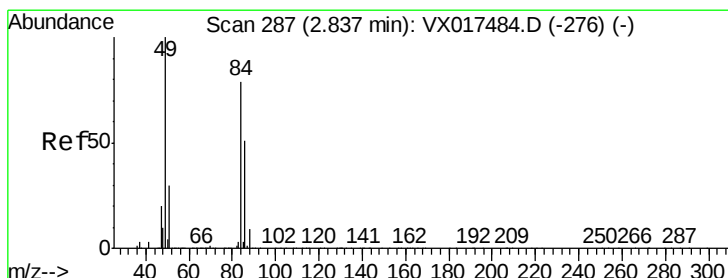
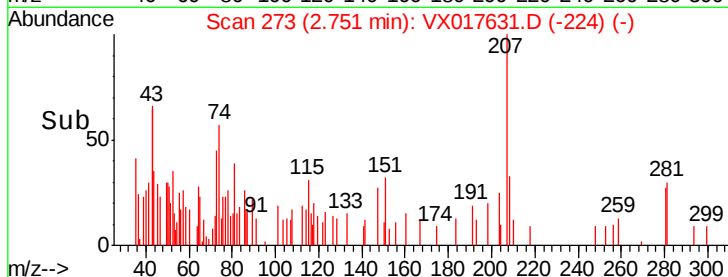
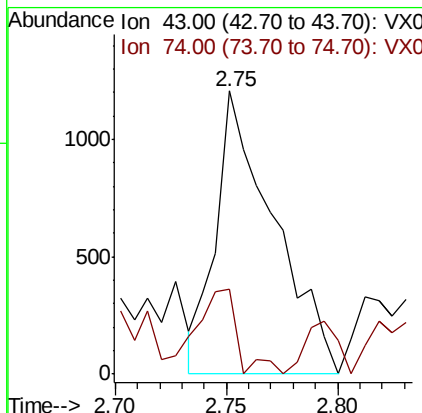
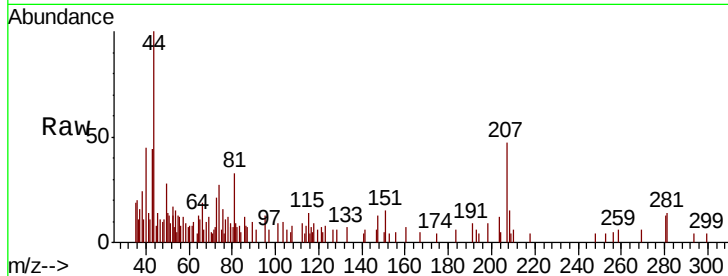




#18
Methyl Acetate
Concen: 0.349 ug/l
RT: 2.75 min Scan# 273
Delta R.T. -0.00 min
Lab File: VX017631.D
Acq: 27 Jul 2020 20:49

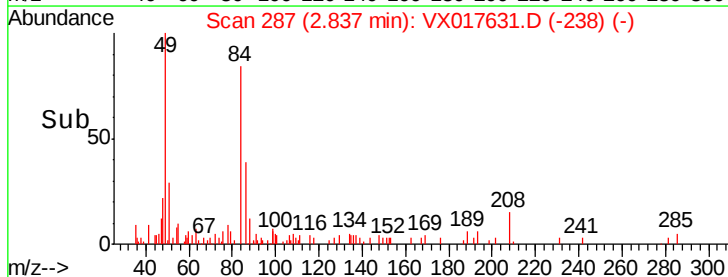
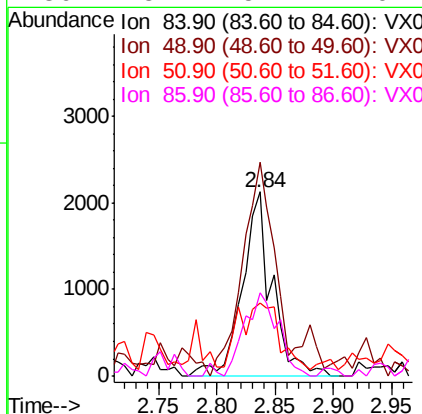
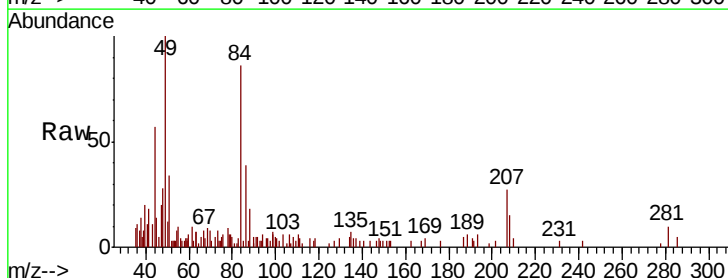
Instrument :
MSVOA_X
ClientSampled :
TRIP-BLANK

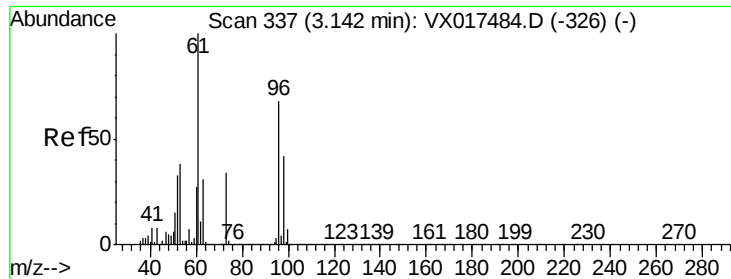
Tot Ion: 43 Resp: 2187
Ion Ratio Lower Upper
43 100
74 20.6 17.5 26.3



#20
Methylene Chloride
Concen: Below Cal
RT: 2.84 min Scan# 287
Delta R.T. 0.00 min
Lab File: VX017631.D
Acq: 27 Jul 2020 20:49

Tgt Ion: 84 Resp: 3791
Ion Ratio Lower Upper
84 100
49 107.7 100.3 150.5
51 36.5 30.5 45.7
86 45.1 51.1 76.7#





#21

trans-1,2-Dichloroethene

Concen: 0.266 ug/l

RT: 3.17 min Scan# 341

Delta R.T. 0.02 min

Lab File: VX017631.D

Acq: 27 Jul 2020 20:49

Instrument :

MSVOA_X

ClientSampleId :

TRIP-BLANK

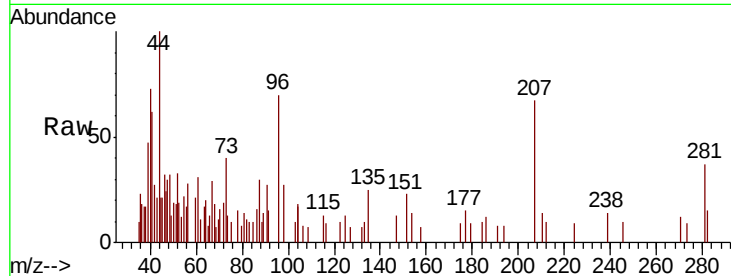
Tot Ion: 96 Resp: 1383

Ion Ratio Lower Upper

96 100

61 20.3 113.0 169.4#

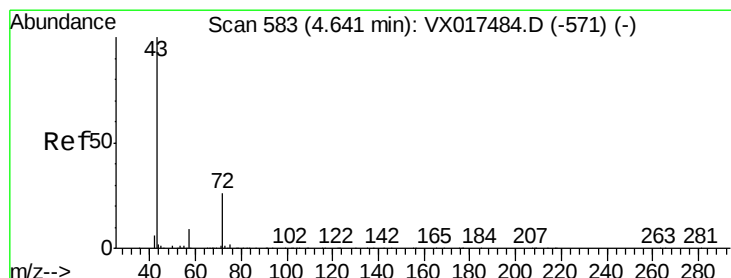
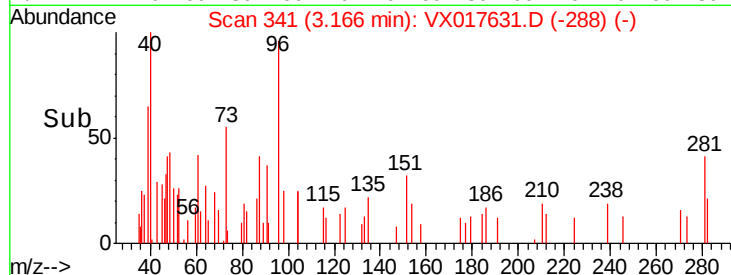
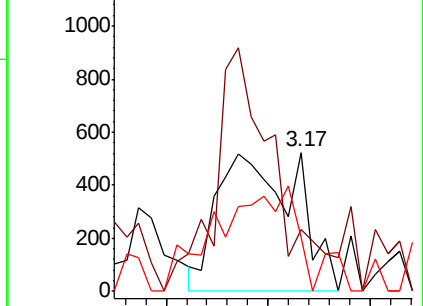
98 12.6 51.8 77.8#



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: 0.353 ug/l

RT: 4.67 min Scan# 587

Delta R.T. 0.02 min

Lab File: VX017631.D

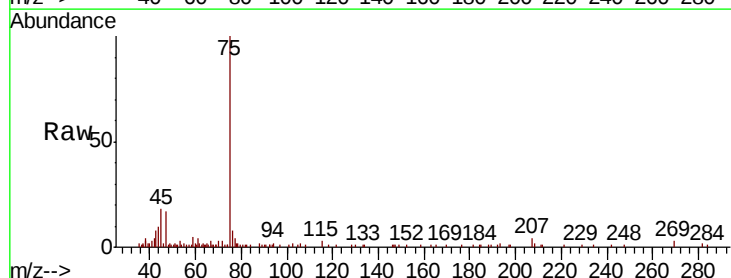
Acq: 27 Jul 2020 20:49

Tgt Ion: 43 Resp: 1334

Ion Ratio Lower Upper

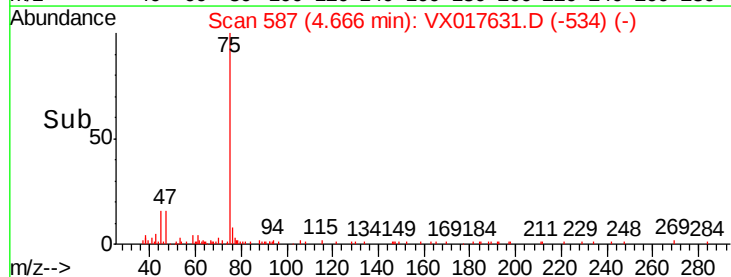
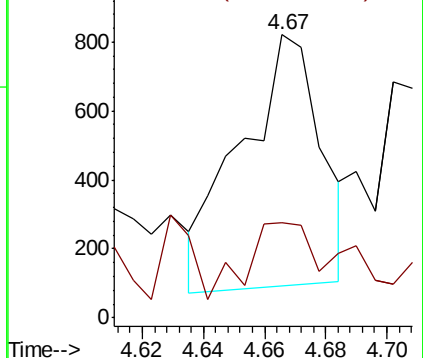
43 100

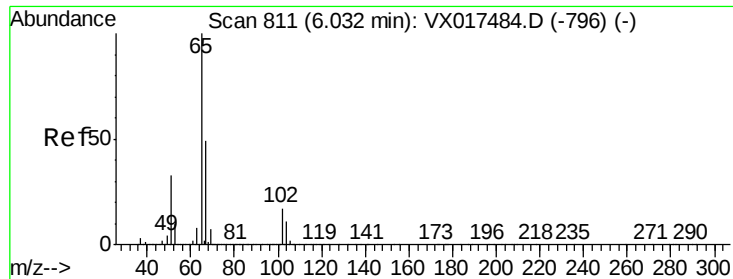
72 15.2 19.0 28.4#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 52.365 ug/l

RT: 6.03 min Scan# 811

Delta R.T. -0.00 min

Lab File: VX017631.D

Acq: 27 Jul 2020 20:49

Instrument :

MSVOA_X

ClientSampleId :

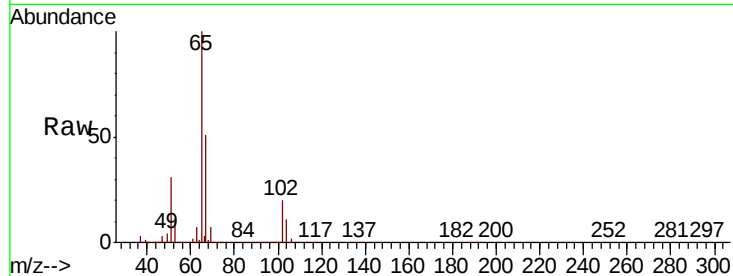
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Tot Ion: 65 Resp: 316598

Ion Ratio Lower Upper

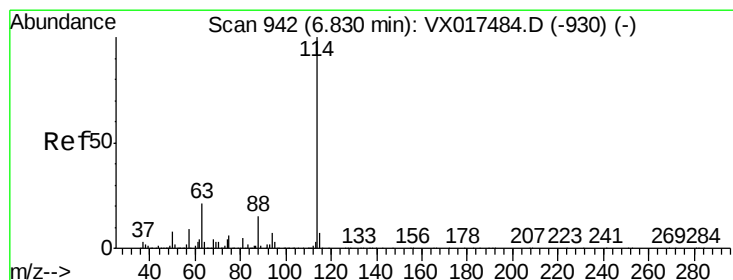
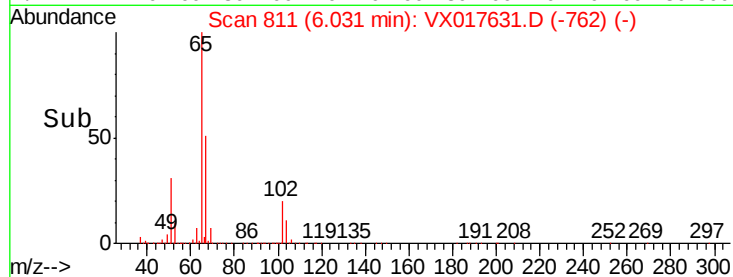
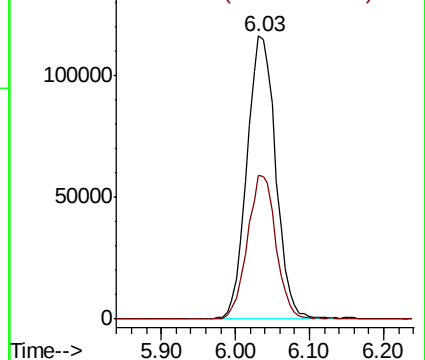
65 100

67 50.3 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: 6.83 min Scan# 942

Delta R.T. -0.00 min

Lab File: VX017631.D

Acq: 27 Jul 2020 20:49

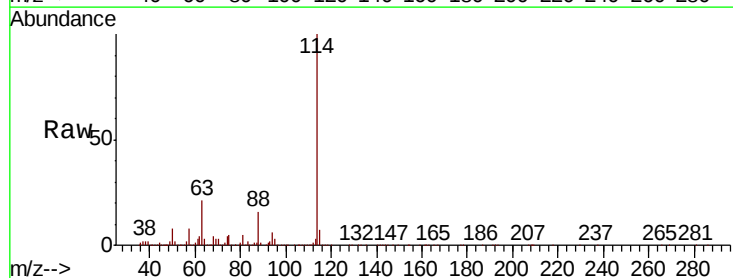
Tgt Ion: 114 Resp: 816437

Ion Ratio Lower Upper

114 100

63 20.9 0.0 40.6

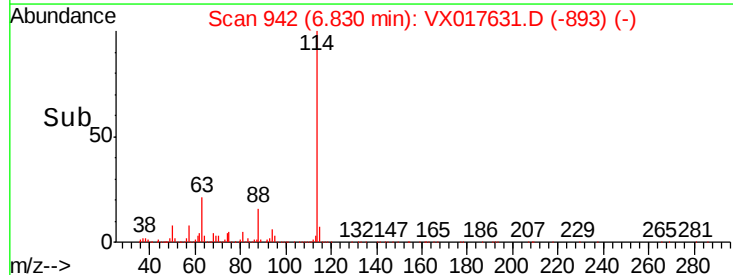
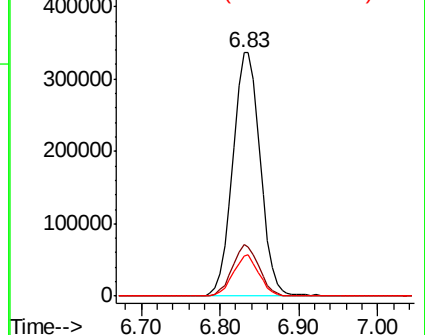
88 16.3 0.0 33.4

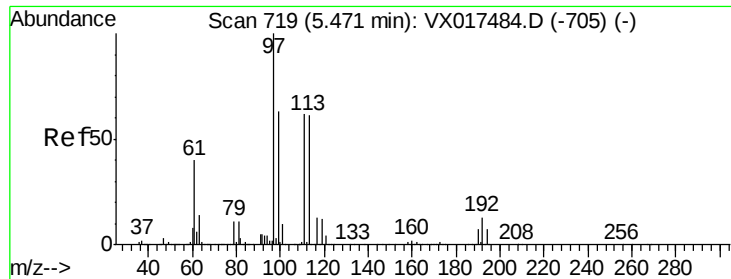


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 48.529 ug/l

RT: 5.47 min Scan# 719

Delta R.T. -0.00 min

Lab File: VX017631.D

Acq: 27 Jul 2020 20:49

Instrument :

MSVOA_X

ClientSampleId :

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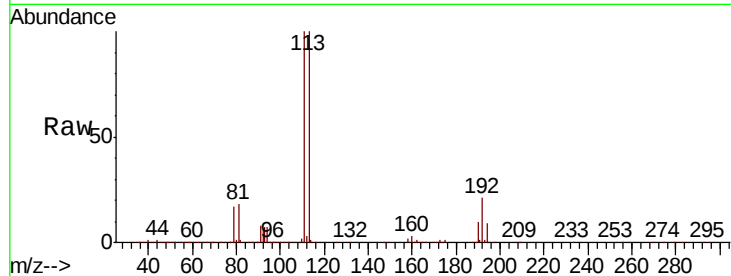
Tot Ion:113 Resp: 264989

Ion Ratio Lower Upper

113 100

111 100.3 80.7 121.1

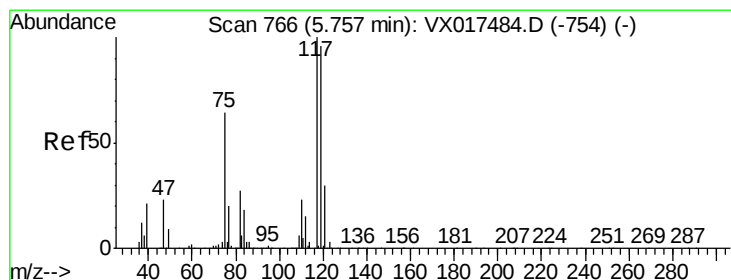
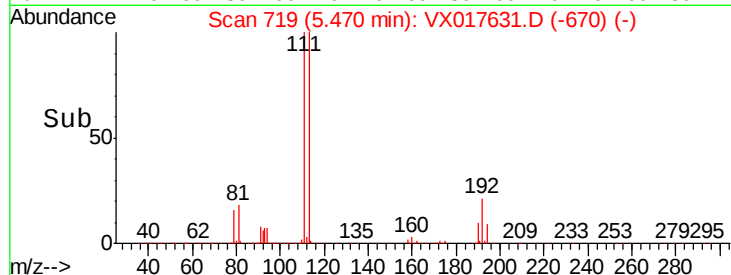
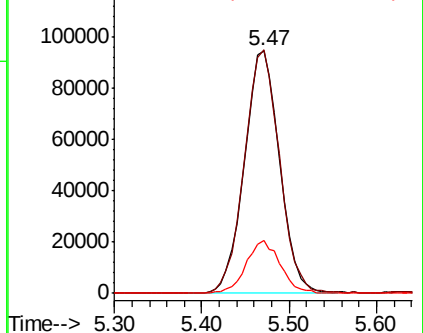
192 21.2 16.9 25.3



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



#38

Carbon Tetrachloride

Concen: 4.992 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.13 min

Lab File: VX017631.D

Acq: 27 Jul 2020 20:49

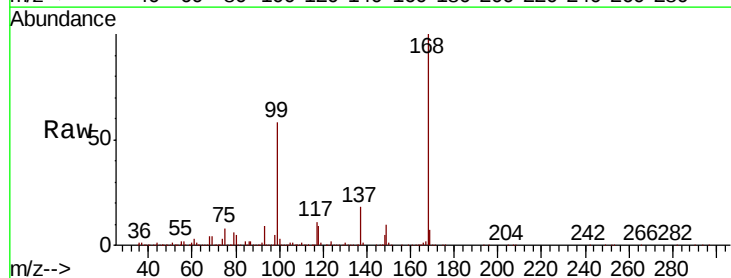
Tgt Ion:117 Resp: 47473

Ion Ratio Lower Upper

117 100

119 4.8 75.4 113.0#

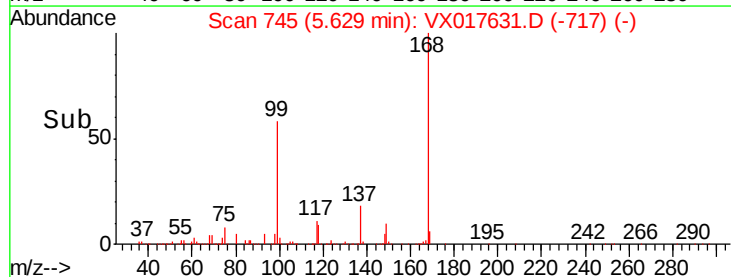
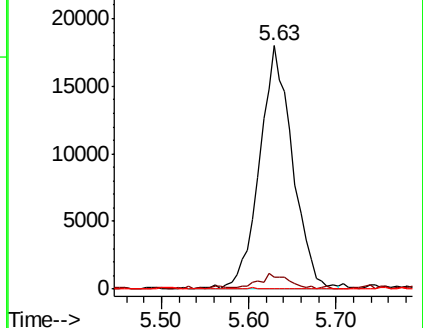
121 0.4 24.3 36.5#

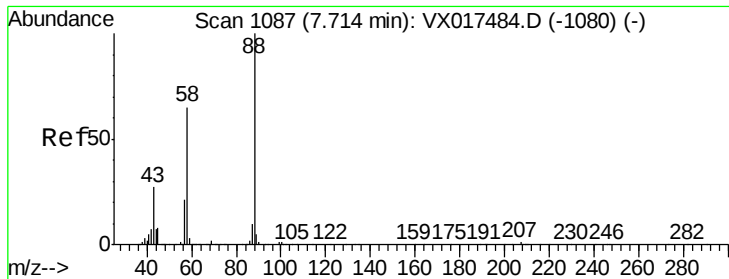


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#49

1,4-Dioxane

Concen: 1.407 ug/l

RT: 7.69 min Scan# 1083

Delta R.T. -0.02 min

Lab File: VX017631.D

Acq: 27 Jul 2020 20:49

Instrument :

MSVOA_X

ClientSampleId :

TRIP-BLANK

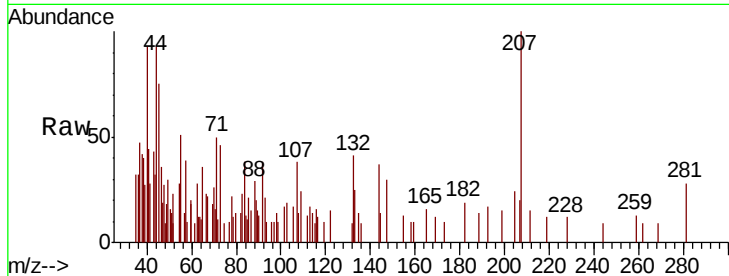
Tot Ion: 88 Resp: 189

Ion Ratio Lower Upper

88 100

43 236.5 27.8 41.6#

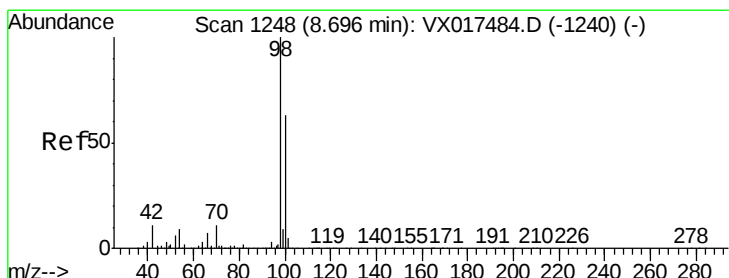
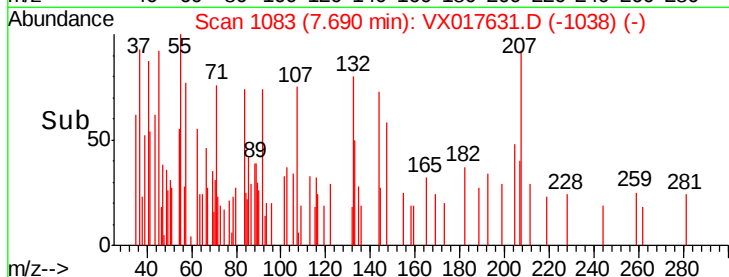
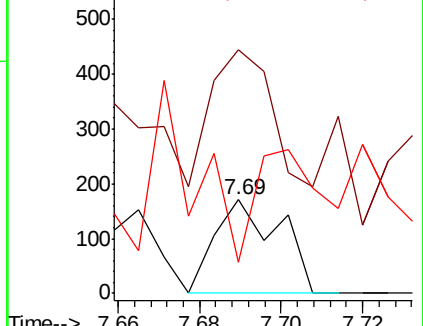
58 122.2 58.3 87.5#



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: 47.703 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX017631.D

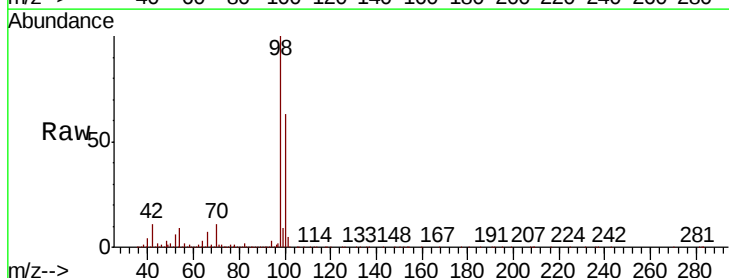
Acq: 27 Jul 2020 20:49

Tgt Ion: 98 Resp: 939668

Ion Ratio Lower Upper

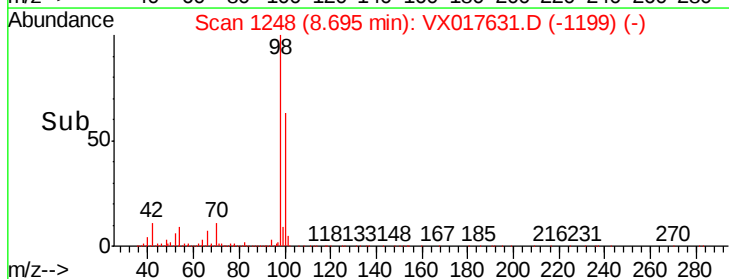
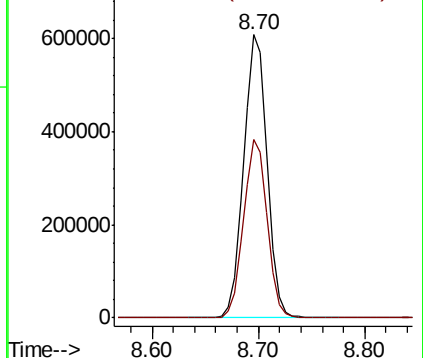
98 100

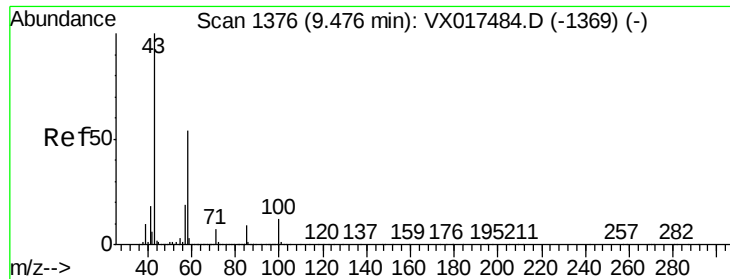
100 63.5 52.3 78.5



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

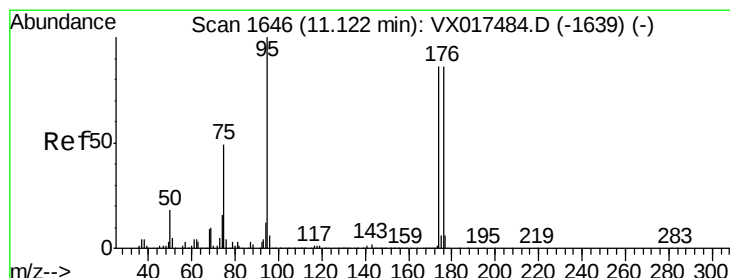
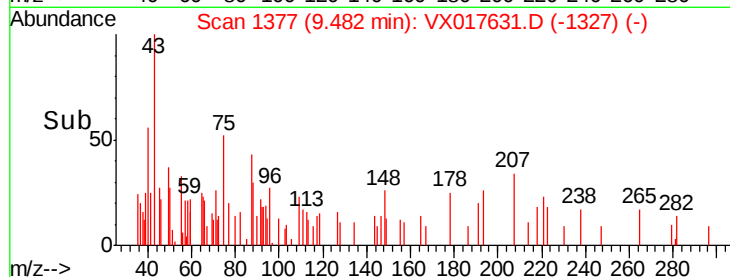
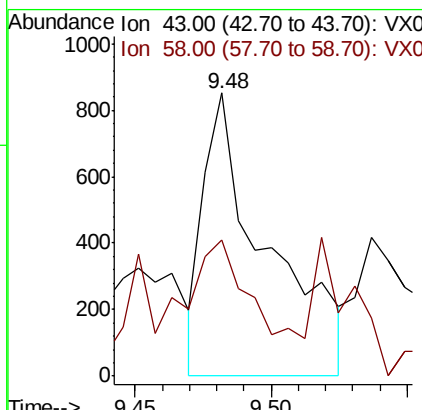
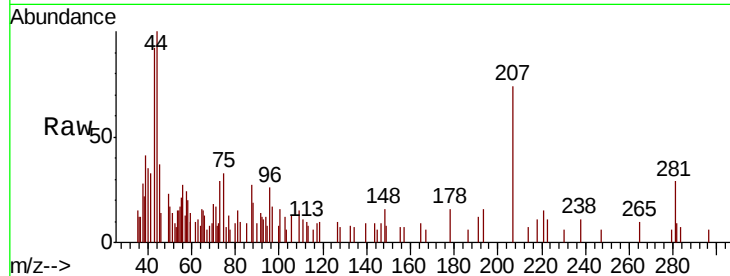




#59
2-Hexanone
Concen: 0.217 ug/l
RT: 9.48 min Scan# 1377
Delta R.T. 0.01 min
Lab File: VX017631.D
Acq: 27 Jul 2020 20:49

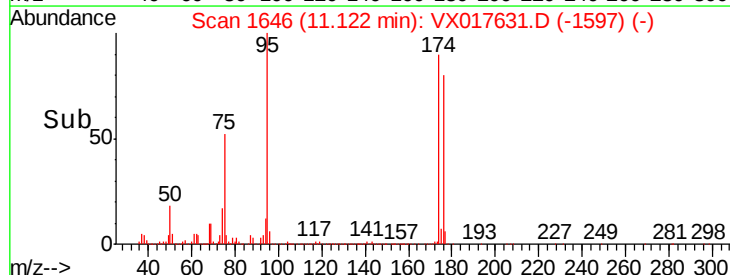
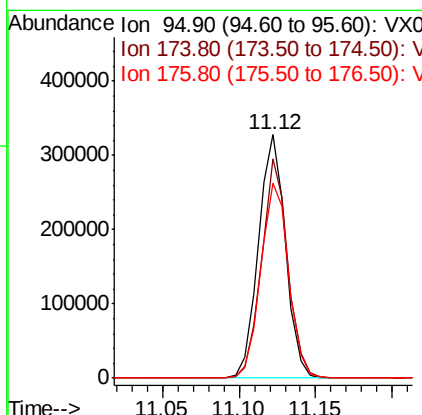
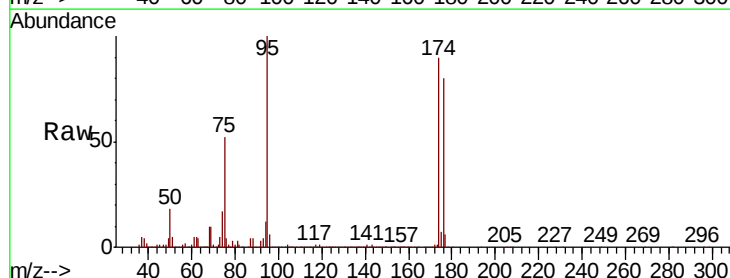
Instrument :
MSVOA_X
ClientSampleId :
TRIP-BLANK

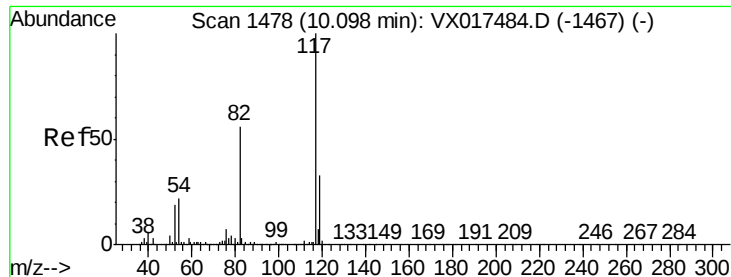
Tot Ion: 43 Resp: 1379
Ion Ratio Lower Upper
43 100
58 30.3 26.6 79.8



#62
4-Bromofluorobenzene
Concen: 51.232 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. -0.00 min
Lab File: VX017631.D
Acq: 27 Jul 2020 20:49

Tgt Ion: 95 Resp: 403871
Ion Ratio Lower Upper
95 100
174 88.0 0.0 169.0
176 82.7 0.0 161.0

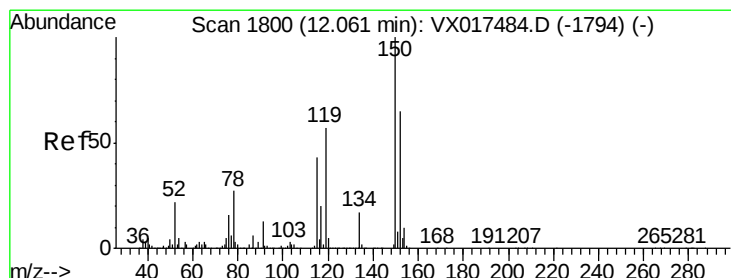
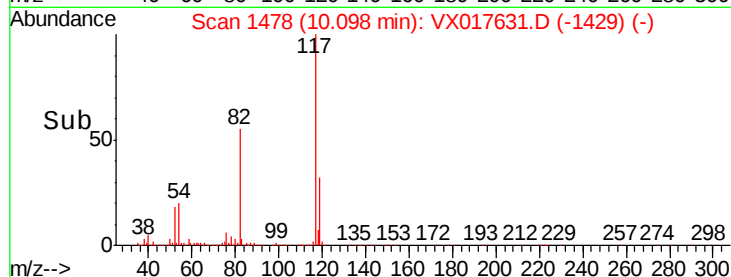
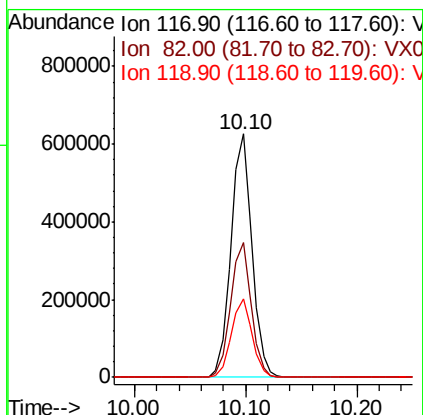
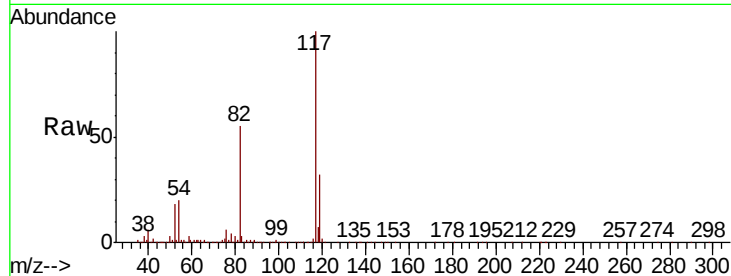




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX017631.D
Acq: 27 Jul 2020 20:49

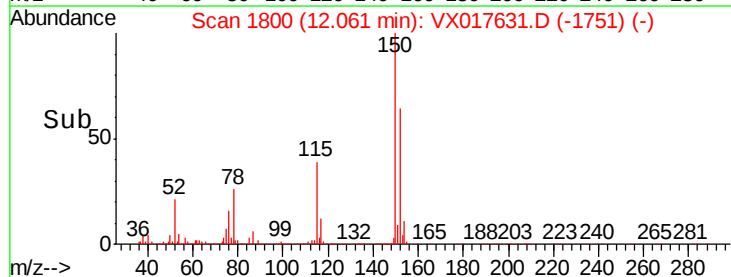
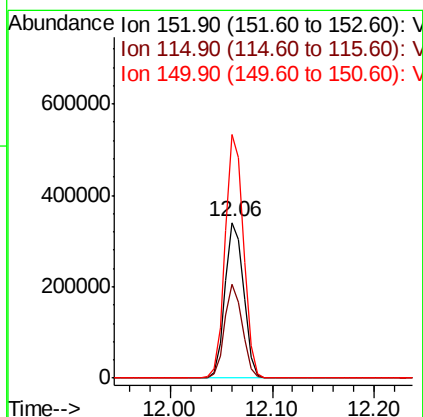
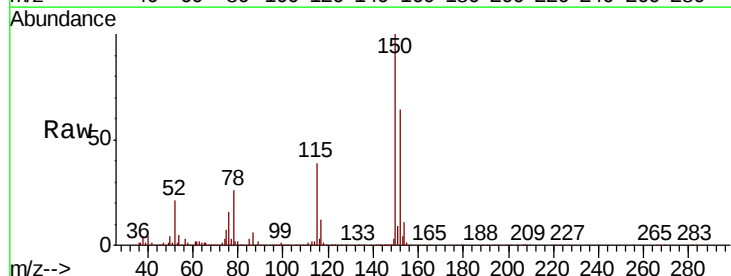
Instrument :
MSVOA_X
ClientSampleId :
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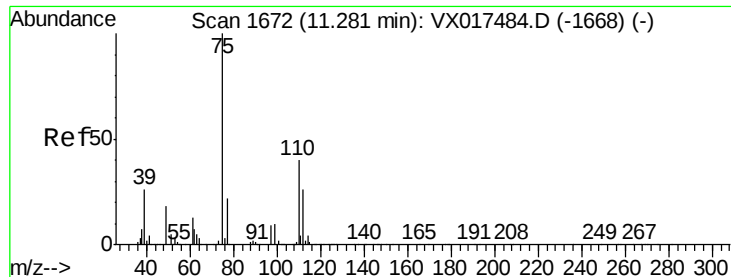
Tot Ion:117 Resp: 811656
Ion Ratio Lower Upper
117 100
82 55.3 44.0 66.0
119 32.0 25.4 38.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. -0.00 min
Lab File: VX017631.D
Acq: 27 Jul 2020 20:49

Tgt Ion:152 Resp: 429053
Ion Ratio Lower Upper
152 100
115 58.2 65.5 196.6#
150 154.5 0.0 412.6





#76

1,2,3-Trichloropropane

Concen: 23.417 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX017631.D

Acq: 27 Jul 2020 20:49

Instrument :

MSVOA_X

ClientSampleId :

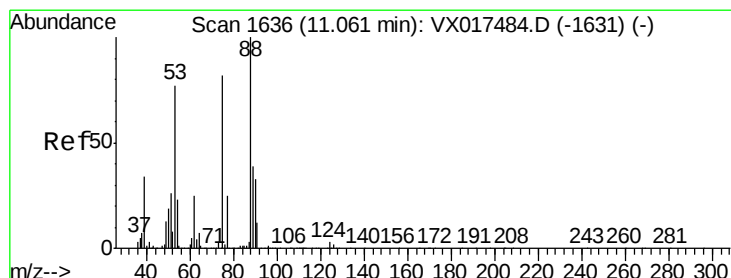
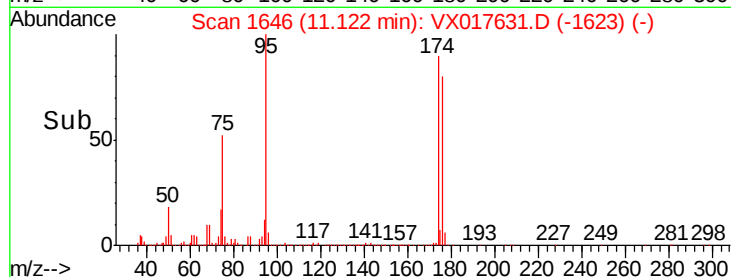
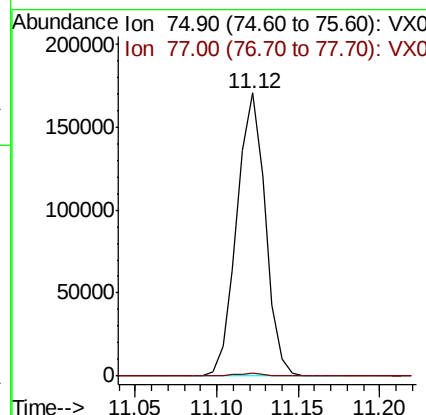
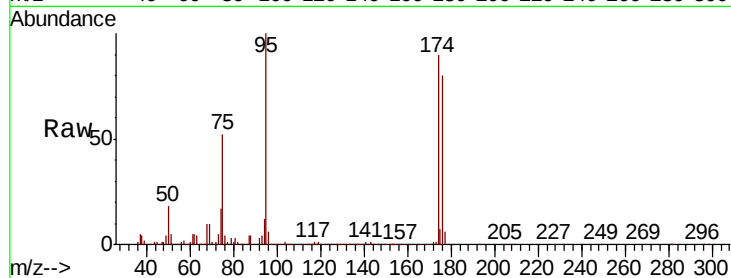
TRIP-BLANK

Tot Ion: 75 Resp: 206672

Ion Ratio Lower Upper

75 100

77 1.3 21.8 65.3#



#81

trans-1,4-Dichloro-2-butene

Concen: 59.005 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX017631.D

Acq: 27 Jul 2020 20:49

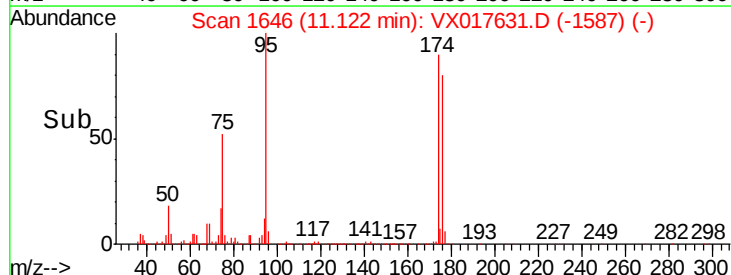
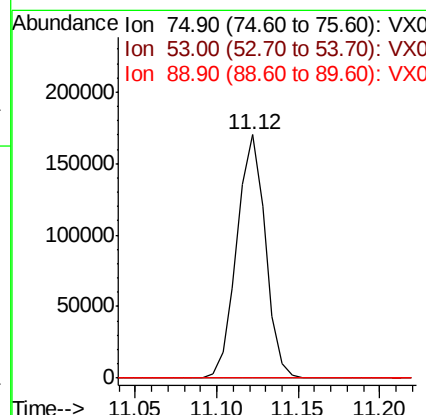
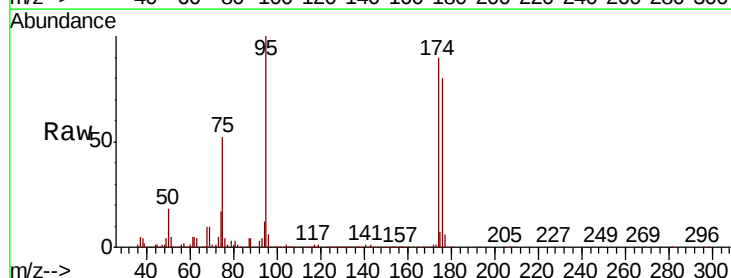
Tgt Ion: 75 Resp: 206672

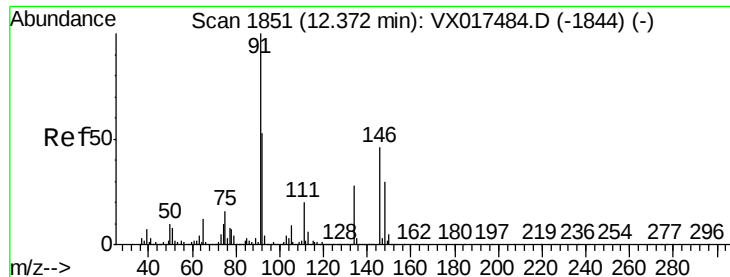
Ion Ratio Lower Upper

75 100

53 0.4 75.9 113.9#

89 0.1 37.8 56.6#

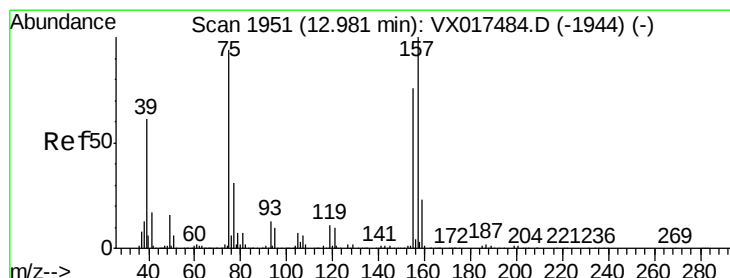
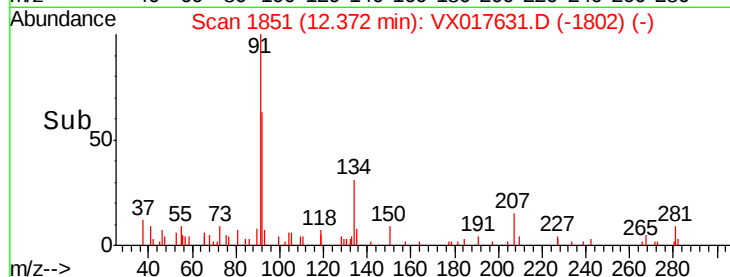
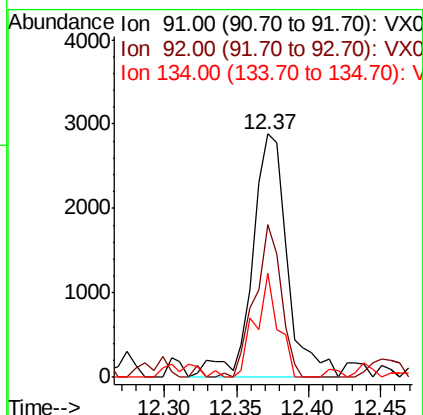
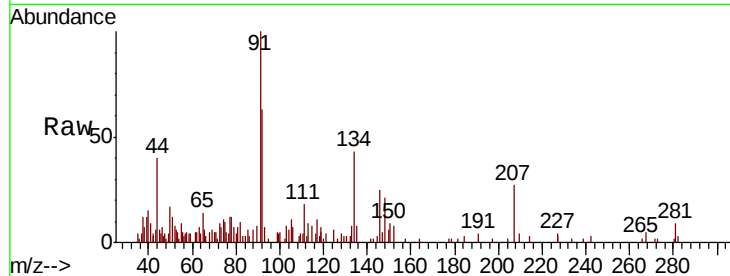




#89
n-Butylbenzene
Concen: 0.202 ug/l
RT: 12.37 min Scan# 1851
Delta R.T. -0.00 min
Lab File: VX017631.D
Acq: 27 Jul 2020 20:49

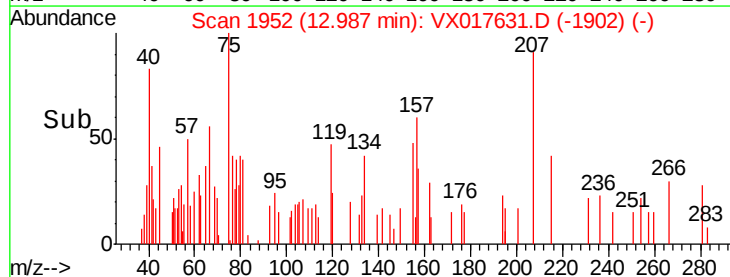
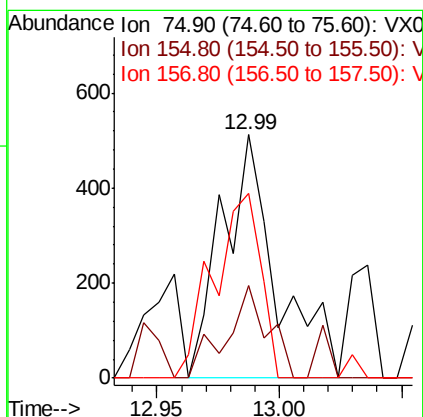
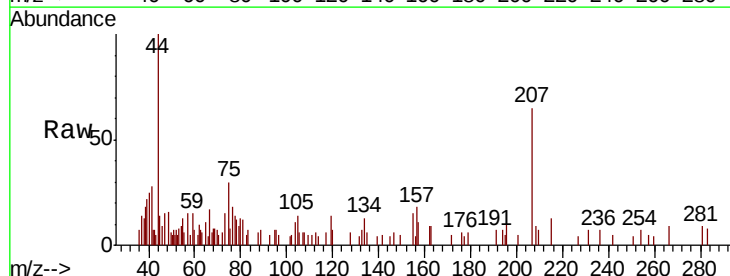
Instrument :
MSVOA_X
ClientSampleId :
TRIP-BLANK

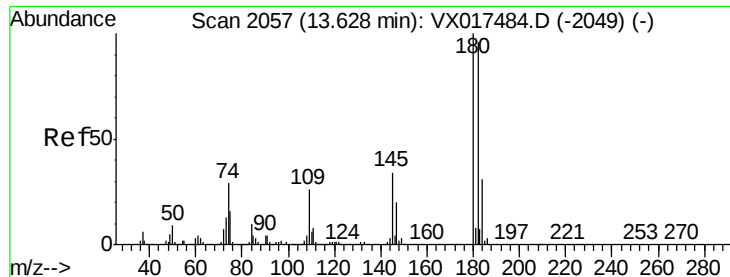
Tot Ion: 91 Resp: 4802
Ion Ratio Lower Upper
91 100
92 47.4 26.7 80.1
134 27.8 13.6 40.7



#92
1,2-Dibromo-3-Chloropropane
Concen: 2.866 ug/l
RT: 12.99 min Scan# 1952
Delta R.T. 0.01 min
Lab File: VX017631.D
Acq: 27 Jul 2020 20:49

Tgt Ion: 75 Resp: 794
Ion Ratio Lower Upper
75 100
155 29.3 42.3 126.8#
157 65.2 54.3 162.9

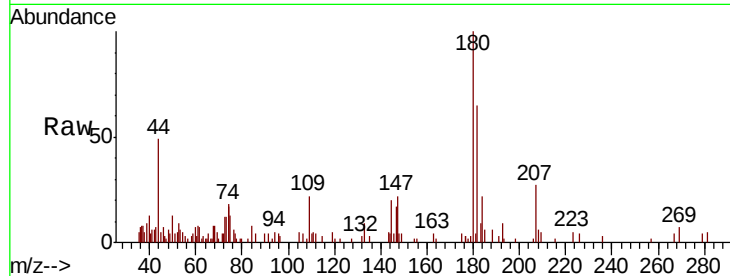




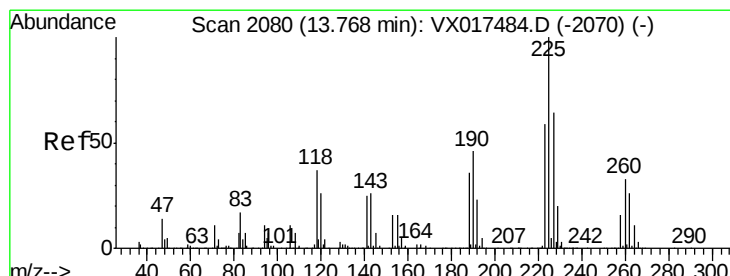
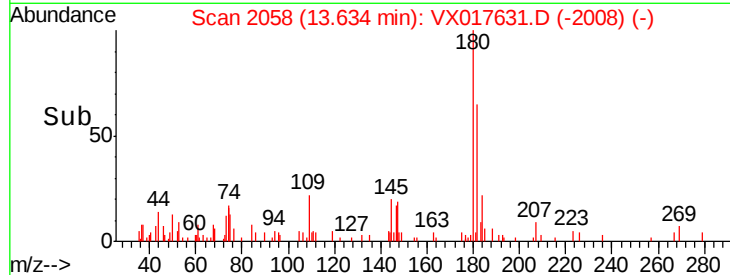
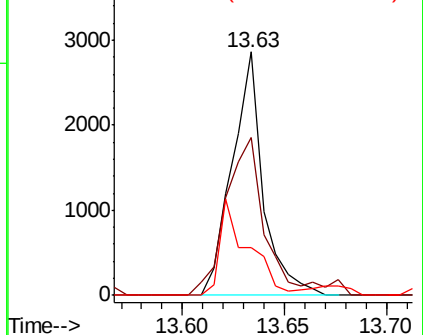
#93
 1,2,4-Trichlorobenzene
 Concen: 0.317 ug/l
 RT: 13.63 min Scan# 2058
 Delta R.T. 0.01 min
 Lab File: VX017631.D
 Acq: 27 Jul 2020 20:49

Instrument :
 MSVOA_X
 ClientSampleId :
 TRIP-BLANK

Tot Ion:180 Resp: 3005
 Ion Ratio Lower Upper
 180 100
 182 79.2 47.5 142.6
 145 36.8 15.4 46.4

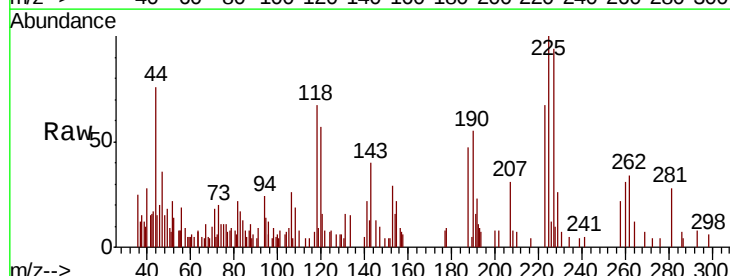


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

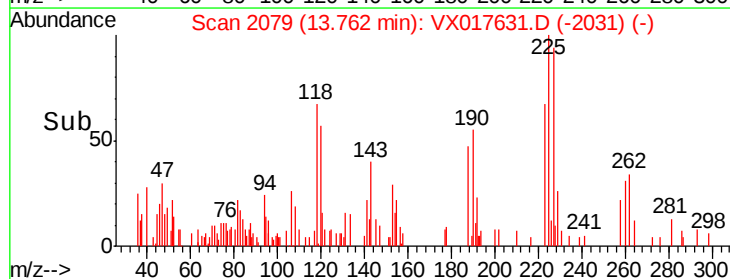
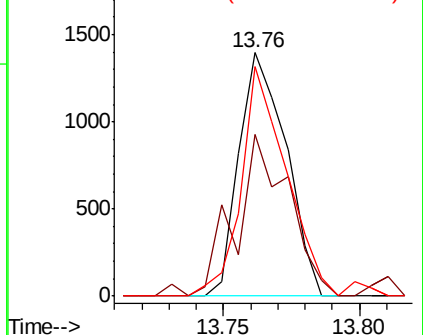


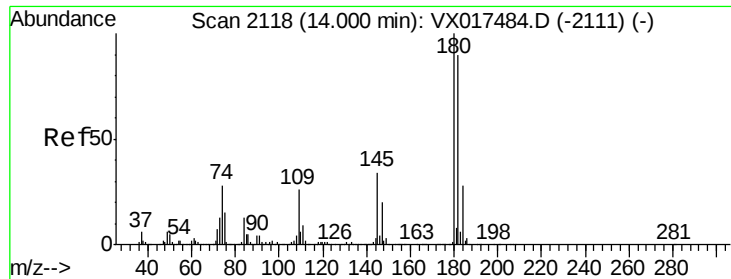
#94
 Hexachlorobutadiene
 Concen: 0.382 ug/l
 RT: 13.76 min Scan# 2079
 Delta R.T. -0.01 min
 Lab File: VX017631.D
 Acq: 27 Jul 2020 20:49

Tgt Ion:225 Resp: 1671
 Ion Ratio Lower Upper
 225 100
 223 76.0 30.3 90.9
 227 90.6 31.1 93.2



Abundance Ion 224.70 (224.40 to 225.40): V
 Ion 222.70 (222.40 to 223.40): V
 Ion 226.70 (226.40 to 227.40): V





#96

1,2,3-Trichlorobenzene

Concen: 0.207 ug/l

RT: 14.01 min Scan# 2119

Delta R.T. 0.01 min

Lab File: VX017631.D

Acq: 27 Jul 2020 20:49

Instrument :

MSVOA_X

ClientSampleId :

TRIP-BLANK

Tot Ion:180 Resp: 1936

Ion Ratio Lower Upper

180 100

182 114.2 47.4 142.3

145 44.6 16.3 48.9

