

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX072320\
 Data File : VX017514.D
 Acq On : 24 Jul 2020 00:43
 Operator : JC/SP
 Sample : PB130403ZHE#04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB130403ZHE#04

Quant Time: Jul 24 06:05:10 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	5.63	168	502431	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	858315	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	871718	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	430619	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	351751	54.50	ug/l	0.00
Spiked Amount			Recovery	=	109.00%	
35) Dibromofluoromethane	5.47	113	294539	51.31	ug/l	0.00
Spiked Amount			Recovery	=	102.62%	
50) Toluene-d8	8.70	98	1088713	52.57	ug/l	0.00
Spiked Amount			Recovery	=	105.14%	
62) 4-Bromofluorobenzene	11.12	95	426202	51.43	ug/l	0.00
Spiked Amount			Recovery	=	102.86%	

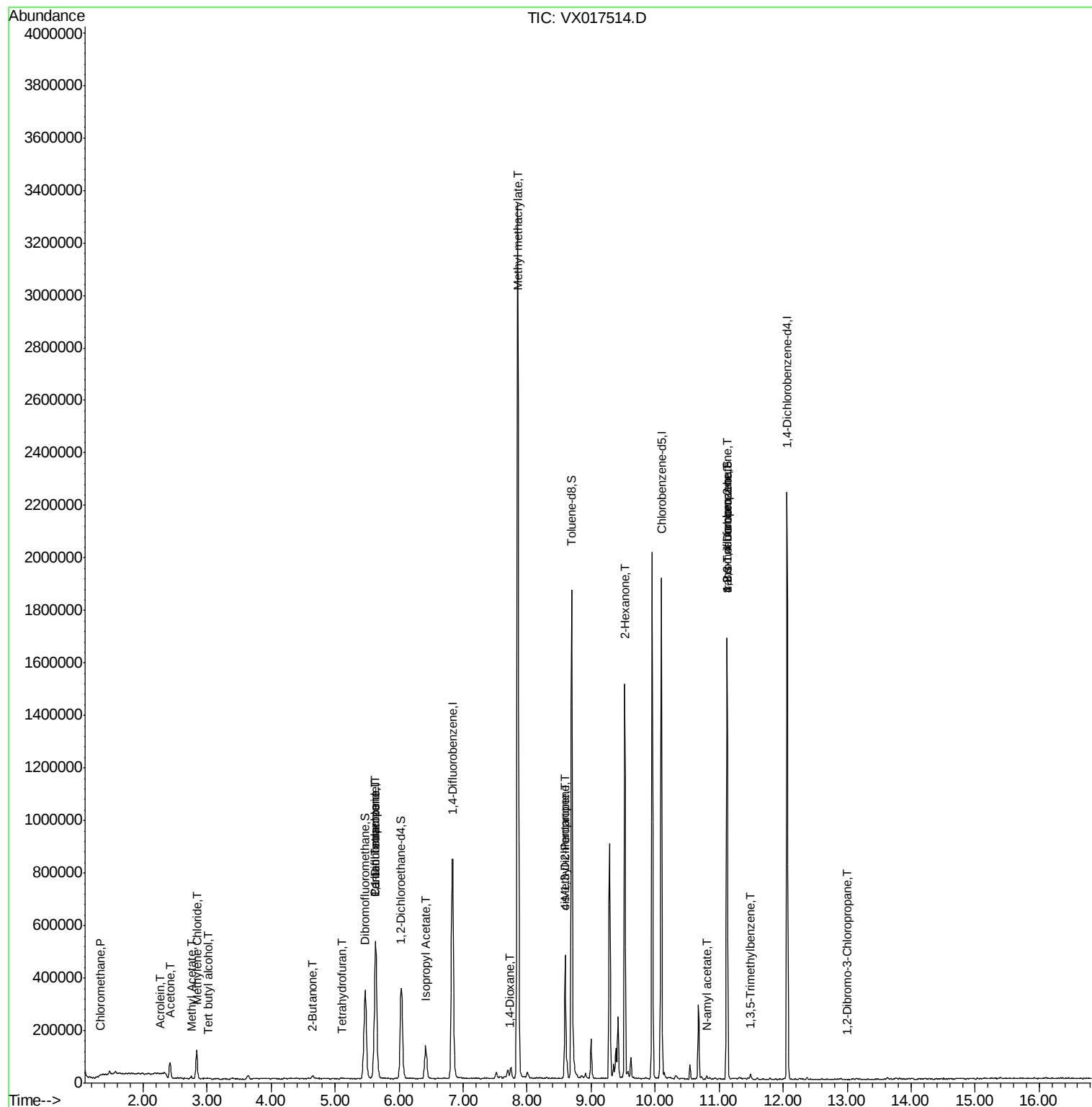
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.18	85	597	Below Cal		95
3) Chloromethane	1.32	50	996	0.526 ug/l #		74
5) Bromomethane	1.61	94	265	Below Cal #		23
6) Chloroethane	1.72	64	520	Below Cal #		70
8) Diethyl Ether	2.18	74	2764	Below Cal		89
11) Tert butyl alcohol	3.02	59	3374	2.480 ug/l #		82
13) Acrolein	2.27	56	1041	5.134 ug/l #		59
16) Acetone	2.42	43	66444	23.391 ug/l		97
18) Methyl Acetate	2.75	43	6251	0.934 ug/l		91
20) Methylene Chloride	2.84	84	47732	7.839 ug/l		96
25) 2-Butanone	4.64	43	17695	4.385 ug/l		97
29) Tetrahydrofuran	5.10	42	1827	0.731 ug/l #		52
36) 1,1-Dichloropropene	5.62	75	38867	4.721 ug/l #		41
38) Carbon Tetrachloride	5.63	117	50852	5.087 ug/l #		17
43) Isopropyl Acetate	6.42	43	176299	11.863 ug/l		99
48) Methyl methacrylate	7.85	41	286052	38.831 ug/l #		46
49) 1,4-Dioxane	7.73	88	216	1.529 ug/l #		22
51) 4-Methyl-2-Pentanone	8.59	43	171682	19.362 ug/l #		48
54) cis-1,3-Dichloropropene	8.59	75	72762	6.850 ug/l #		57
59) 2-Hexanone	9.52	43	171753	25.727 ug/l #		51
74) N-amyl acetate	10.80	43	7837	0.597 ug/l #		58
76) 1,2,3-Trichloropropane	11.12	75	220491	24.892 ug/l #		34
80) 1,3,5-Trimethylbenzene	11.49	105	8093	0.321 ug/l		83
81) trans-1,4-Dichloro-2-buten	11.12	75	220491	62.721 ug/l #		11
92) 1,2-Dibromo-3-Chloropropan	12.99	75	122	2.621 ug/l #		12

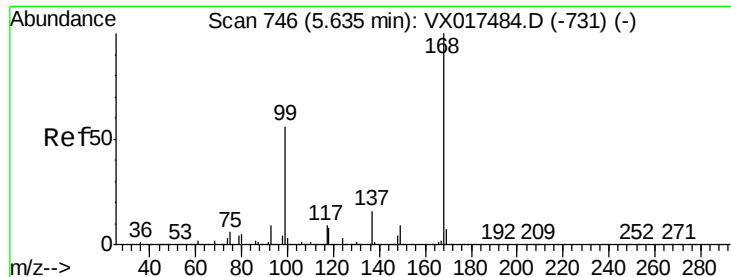
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: 5.63 min Scan# 745

Delta R.T. -0.01 min

Lab File: VX017514.D

Acq: 24 Jul 2020 00:43

Instrument :

MSVOA_X

ClientSampleId :

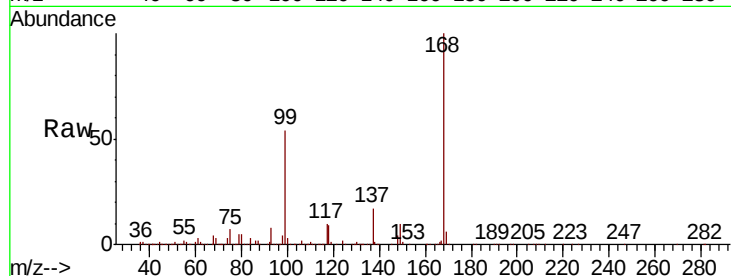
PB130403ZHE#04

Tot Ion:168 Resp: 502431

Ion Ratio Lower Upper

168 100

99 54.3 43.4 65.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

200000

150000

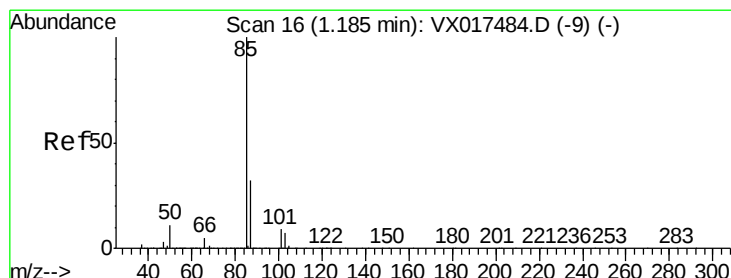
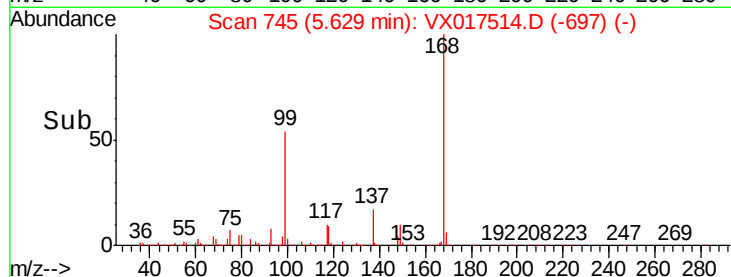
100000

50000

0

5.50 5.60 5.70

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.18 min Scan# 16

Delta R.T. 0.00 min

Lab File: VX017514.D

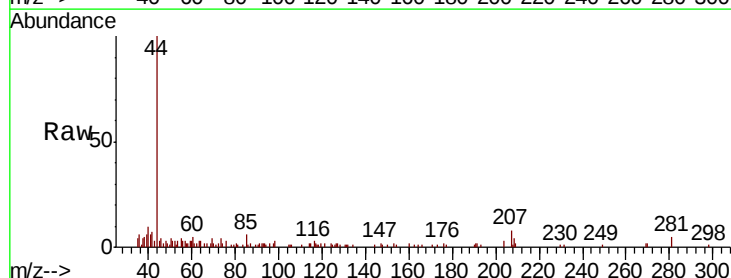
Acq: 24 Jul 2020 00:43

Tgt Ion: 85 Resp: 597

Ion Ratio Lower Upper

85 100

87 29.3 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

400

300

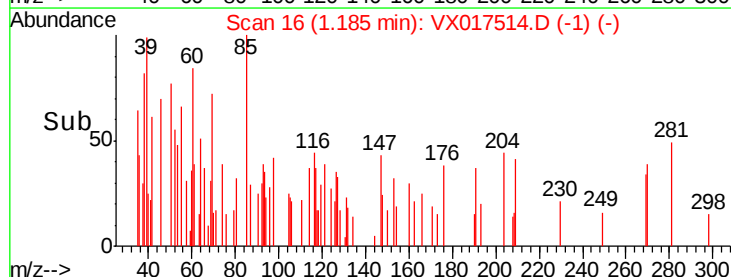
200

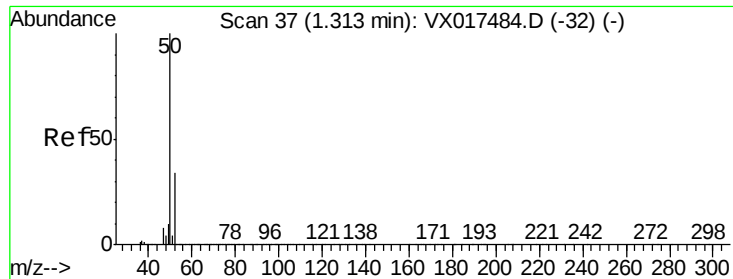
100

0

1.15 1.20

Time-->





#3

Chloromethane

Concen: 0.526 ug/l

RT: 1.32 min Scan# 38

Delta R.T. 0.01 min

Lab File: VX017514.D

Acq: 24 Jul 2020 00:43

Instrument :

MSVOA_X

ClientSampleId :

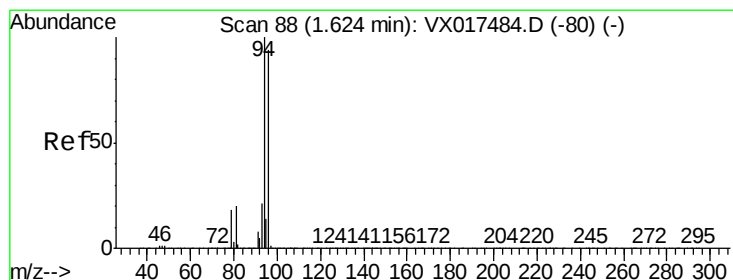
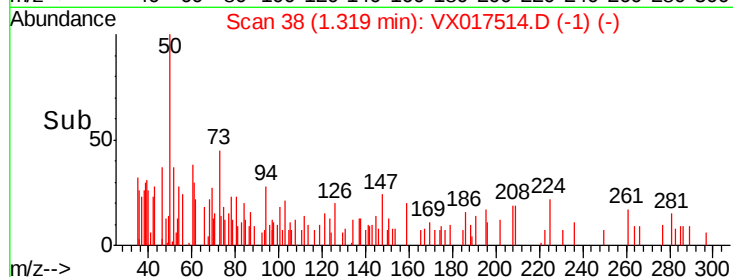
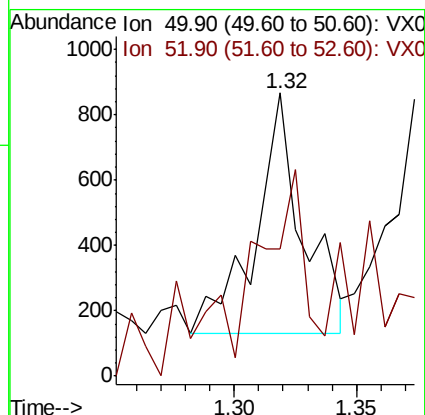
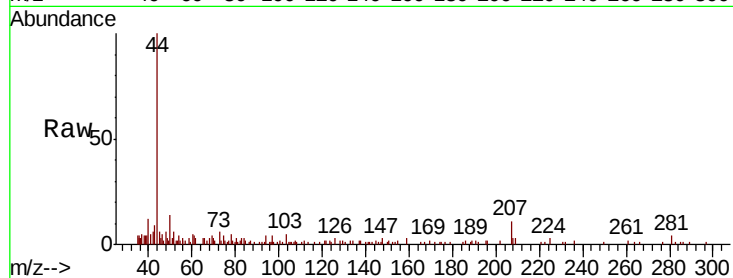
PB130403ZHE#04

Tot Ion: 50 Resp: 996

Ion Ratio Lower Upper

50 100

52 18.1 25.9 38.9#



#5

Bromomethane

Concen: Below Cal

RT: 1.61 min Scan# 85

Delta R.T. -0.02 min

Lab File: VX017514.D

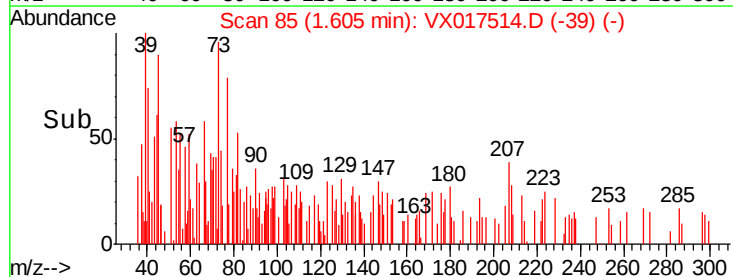
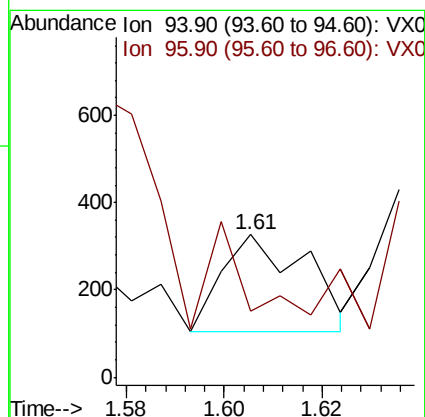
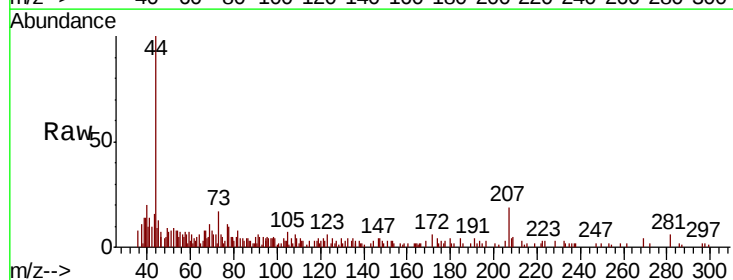
Acq: 24 Jul 2020 00:43

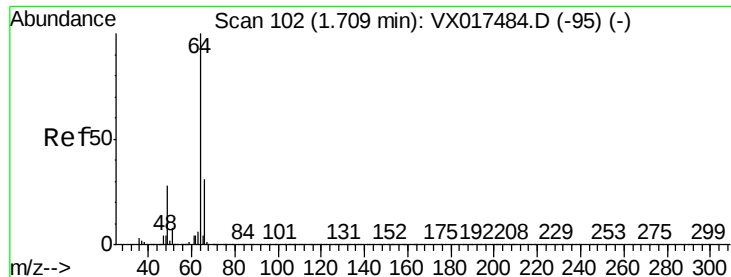
Tgt Ion: 94 Resp: 265

Ion Ratio Lower Upper

94 100

96 18.8 74.1 111.1#





#6

Chloroethane

Concen: Below Cal

RT: 1.72 min Scan# 103

Delta R.T. 0.01 min

Lab File: VX017514.D

Acq: 24 Jul 2020 00:43

Instrument :

MSVOA_X

ClientSampleId :

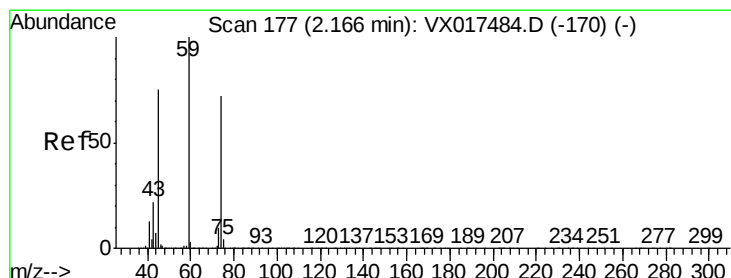
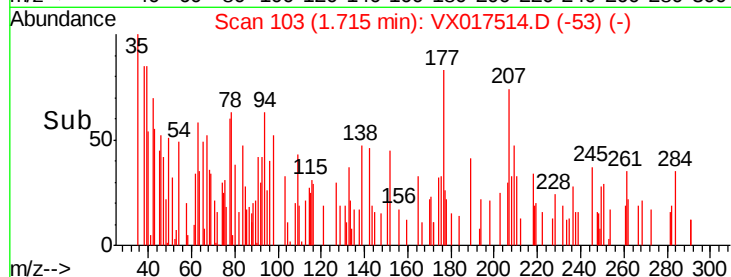
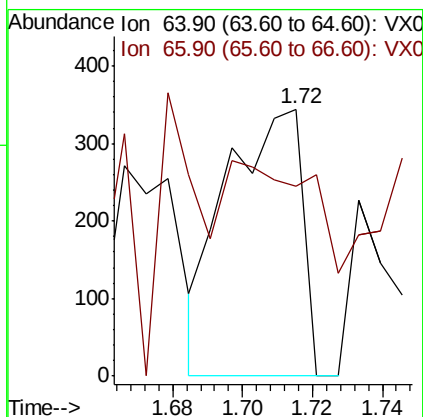
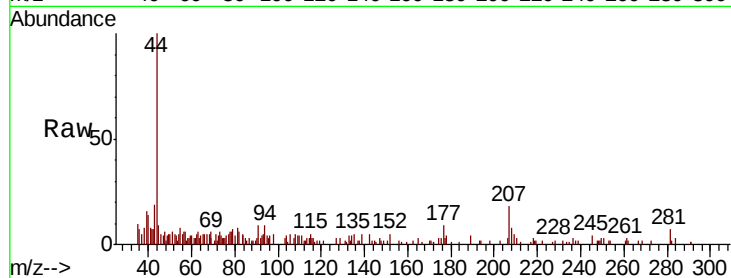
PB130403ZHE#04

Tot Ion: 64 Resp: 520

Ion Ratio Lower Upper

64 100

66 47.7 24.9 37.3#



#8

Diethyl Ether

Concen: Below Cal

RT: 2.18 min Scan# 180

Delta R.T. 0.02 min

Lab File: VX017514.D

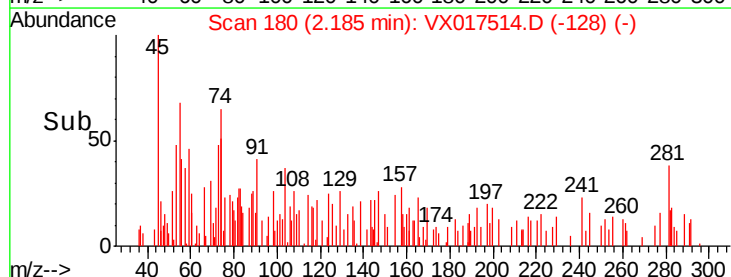
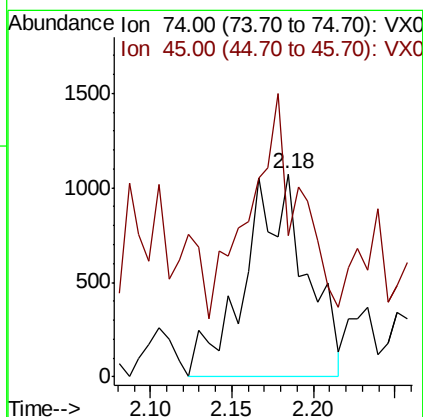
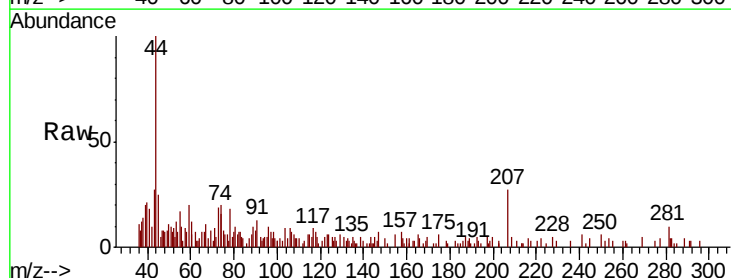
Acq: 24 Jul 2020 00:43

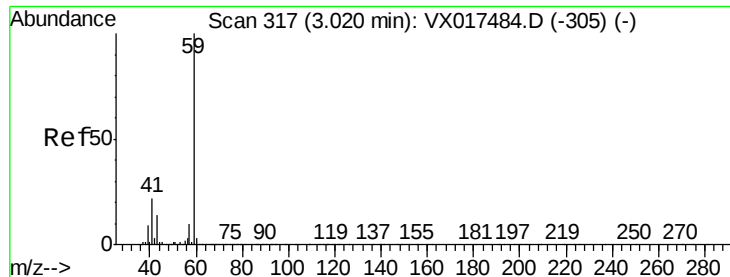
Tgt Ion: 74 Resp: 2764

Ion Ratio Lower Upper

74 100

45 90.3 50.8 152.5

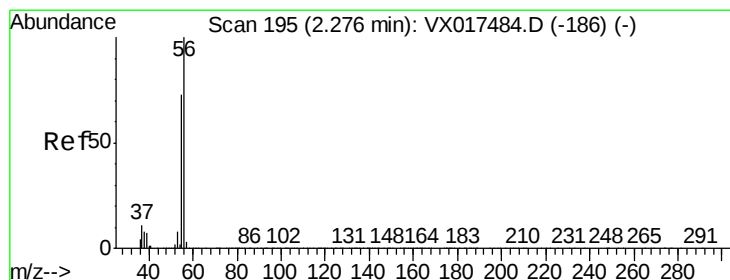
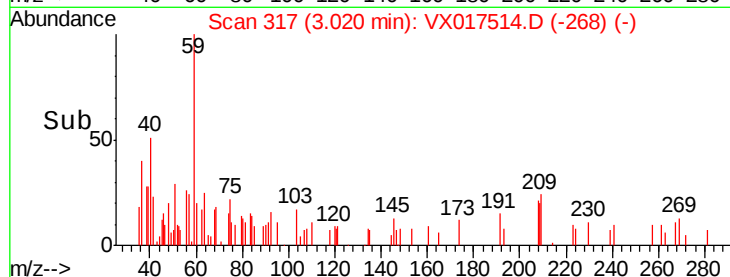
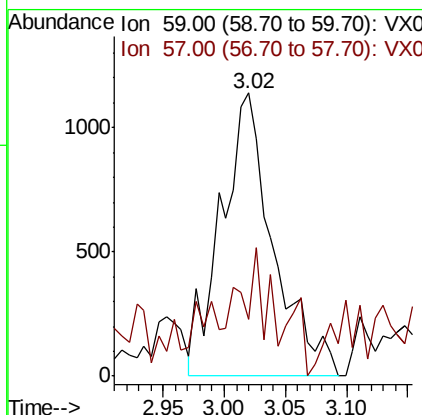
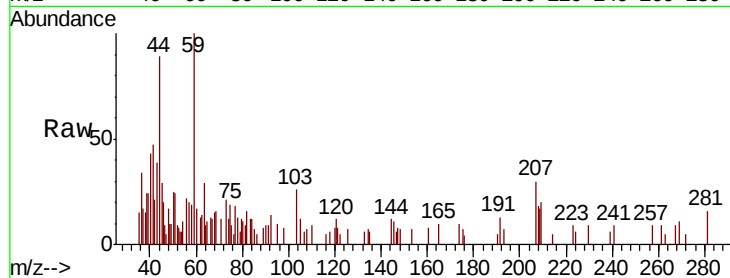




#11
Tert butyl alcohol
Concen: 2.480 ug/l
RT: 3.02 min Scan# 317
Delta R.T. -0.00 min
Lab File: VX017514.D
Acq: 24 Jul 2020 00:43

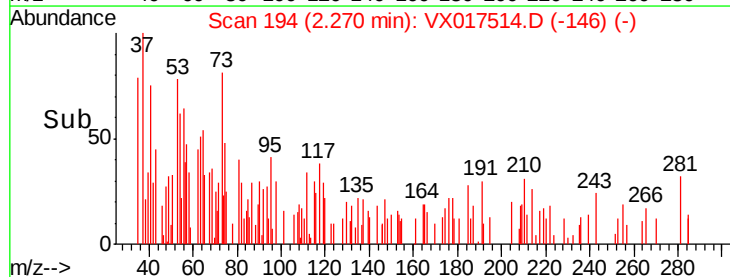
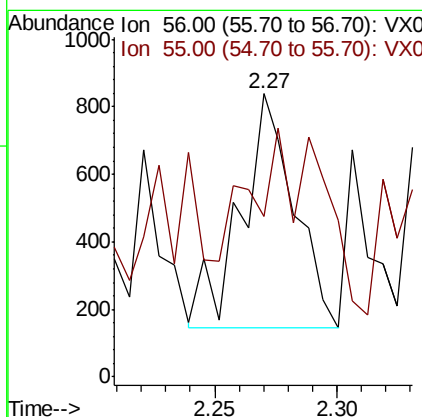
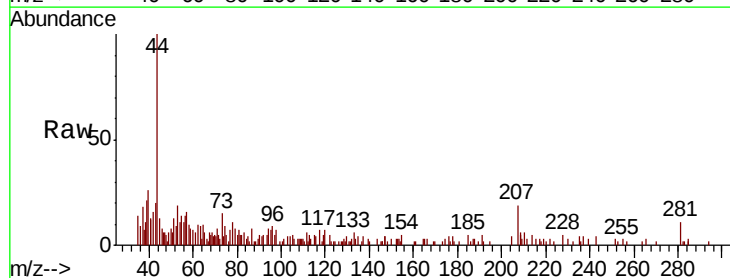
Instrument :
MSVOA_X
ClientSampled :
PB130403ZHE#04

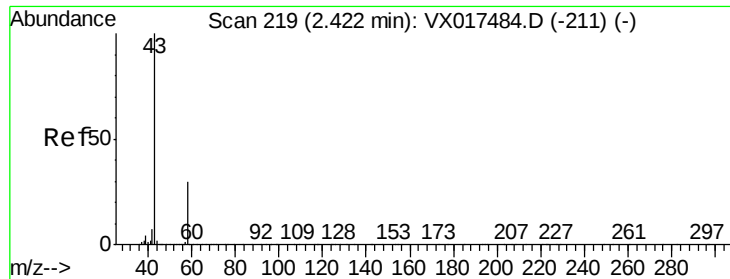
Tot Ion: 59 Resp: 3374
Ion Ratio Lower Upper
59 100
57 3.8 8.6 12.8#



#13
Acrolein
Concen: 5.134 ug/l
RT: 2.27 min Scan# 194
Delta R.T. -0.01 min
Lab File: VX017514.D
Acq: 24 Jul 2020 00:43

Tgt Ion: 56 Resp: 1041
Ion Ratio Lower Upper
56 100
55 37.8 57.4 86.2#





#16

Acetone

Concen: 23.391 ug/l

RT: 2.42 min Scan# 219

Delta R.T. -0.00 min

Lab File: VX017514.D

Acq: 24 Jul 2020 00:43

Instrument :

MSVOA_X

ClientSampleId :

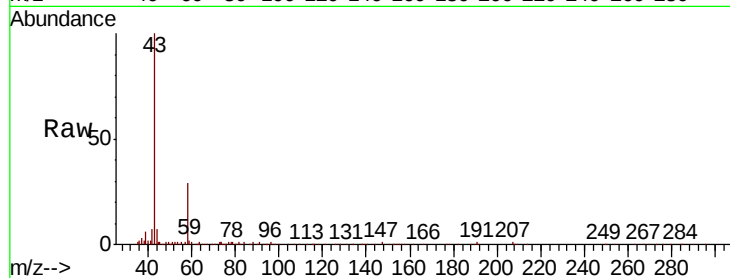
PB130403ZHE#04

Tot Ion: 43 Resp: 66444

Ion Ratio Lower Upper

43 100

58 28.7 24.2 36.4



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.42

40000

30000

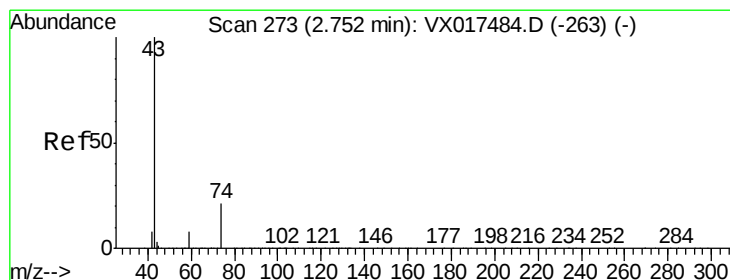
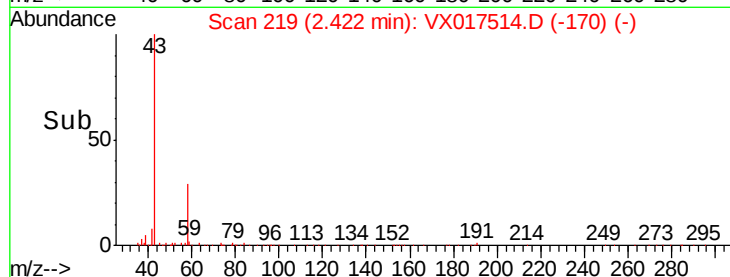
20000

10000

0

Time-->

2.35 2.40 2.45 2.50



#18

Methyl Acetate

Concen: 0.934 ug/l

RT: 2.75 min Scan# 273

Delta R.T. -0.00 min

Lab File: VX017514.D

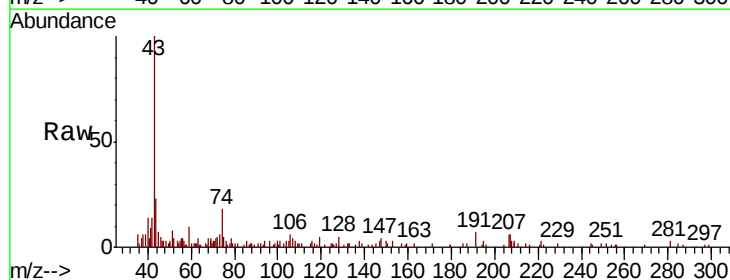
Acq: 24 Jul 2020 00:43

Tgt Ion: 43 Resp: 6251

Ion Ratio Lower Upper

43 100

74 26.2 17.5 26.3



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

2.75

6000

5000

4000

3000

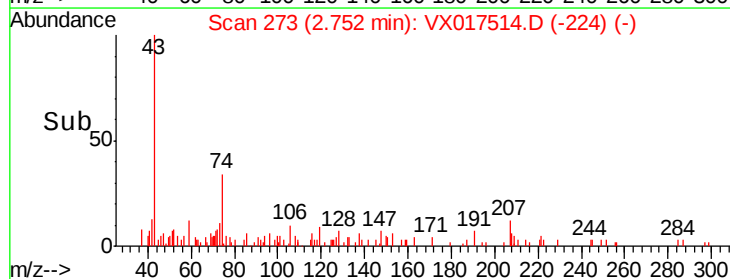
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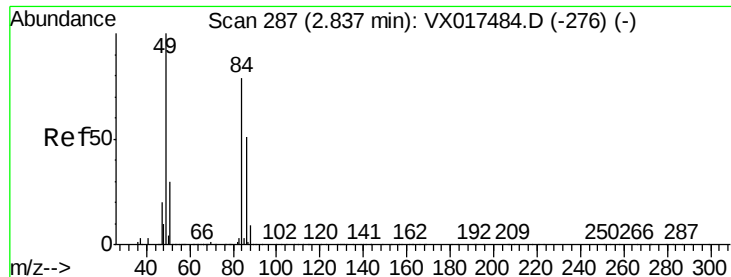
1000

0

Time-->

2.70 2.75 2.80

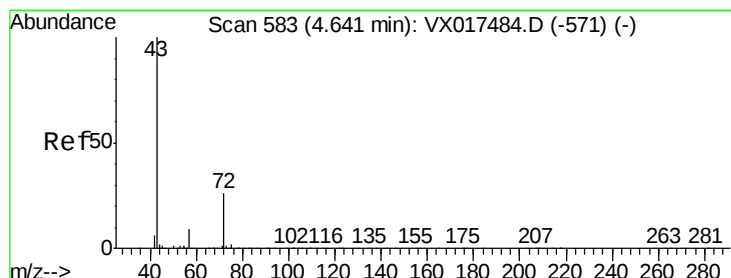
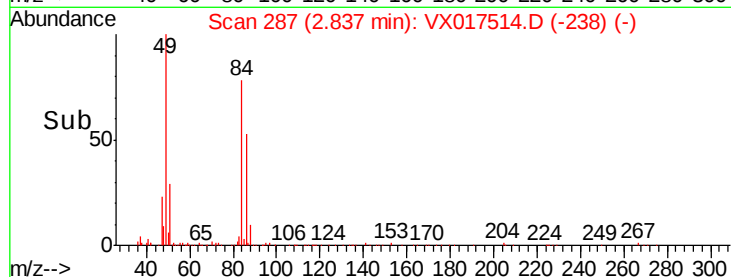
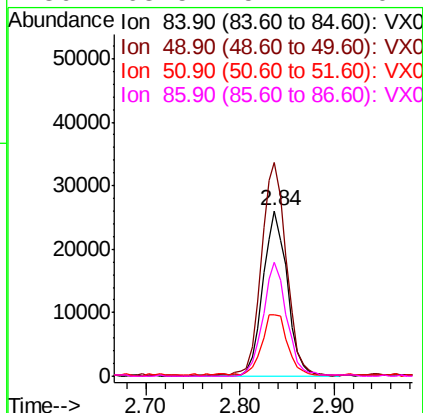
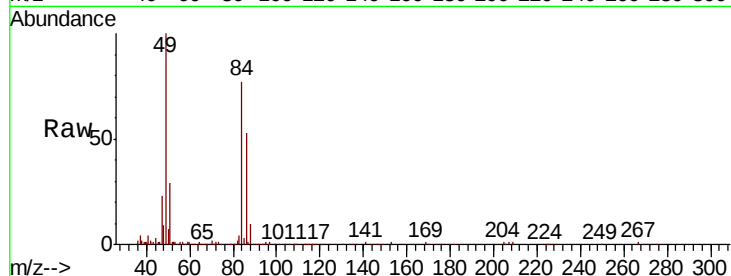




#20
Methvlene Chloride
Concen: 7.839 ug/l
RT: 2.84 min Scan# 287
Delta R.T. 0.00 min
Lab File: VX017514.D
Acq: 24 Jul 2020 00:43

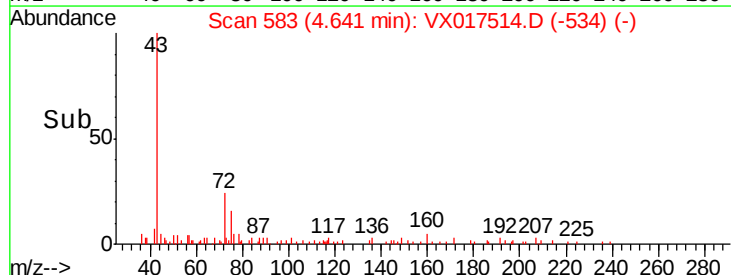
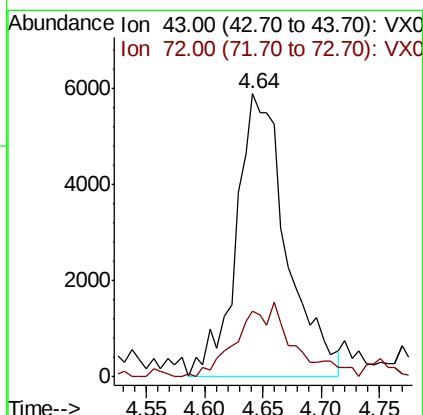
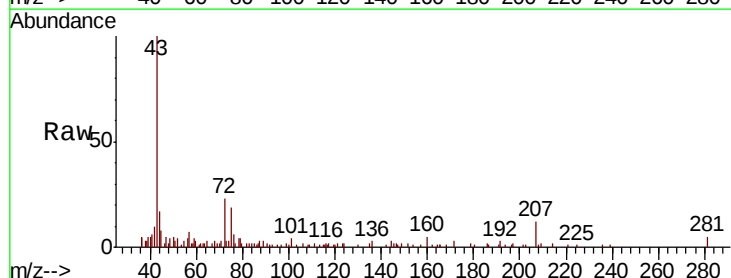
Instrument :
MSVOA_X
ClientSampleId :
PB130403ZHE#04

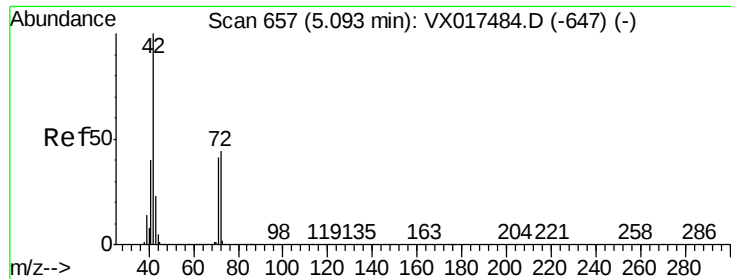
Tot Ion: 84 Resp: 47732
Ion Ratio Lower Upper
84 100
49 128.7 100.3 150.5
51 36.5 30.5 45.7
86 68.5 51.1 76.7



#25
2-Butanone
Concen: 4.385 ug/l
RT: 4.64 min Scan# 583
Delta R.T. -0.00 min
Lab File: VX017514.D
Acq: 24 Jul 2020 00:43

Tgt Ion: 43 Resp: 17695
Ion Ratio Lower Upper
43 100
72 22.1 19.0 28.4





#29

Tetrahydrofuran

Concen: 0.731 ug/l

RT: 5.10 min Scan# 659

Delta R.T. 0.01 min

Lab File: VX017514.D

Acq: 24 Jul 2020 00:43

Instrument :

MSVOA_X

ClientSampleId :

PB130403ZHE#04

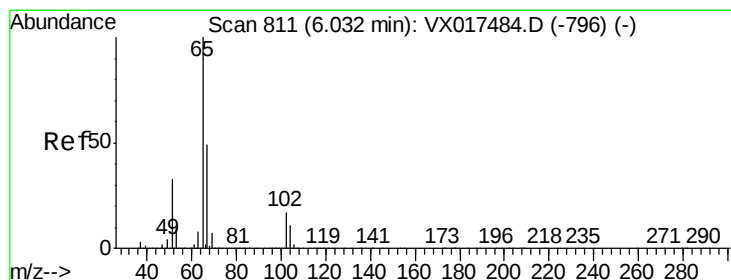
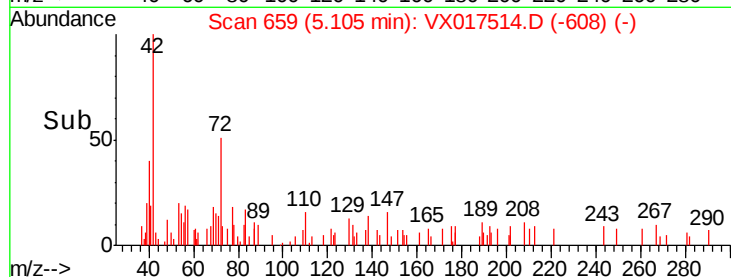
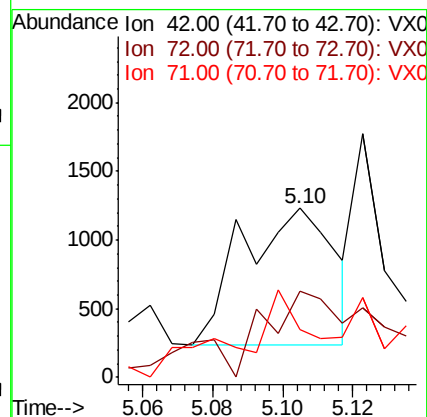
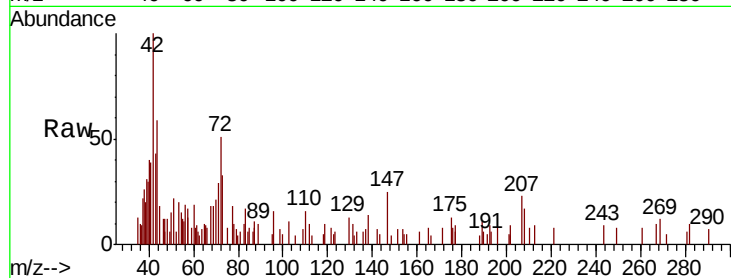
Tot Ion: 42 Resp: 1827

Ion Ratio Lower Upper

42 100

72 98.0 35.5 53.3#

71 47.8 33.0 49.4



#33

1,2-Dichloroethane-d4

Concen: 54.502 ug/l

RT: 6.04 min Scan# 812

Delta R.T. 0.01 min

Lab File: VX017514.D

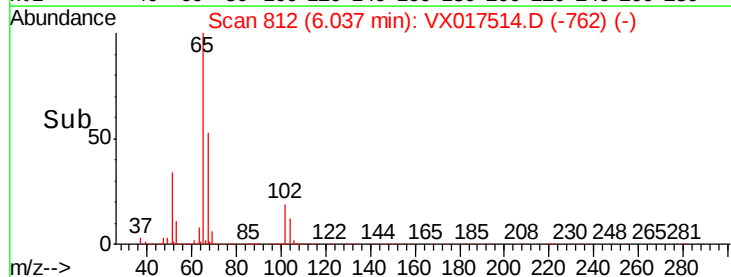
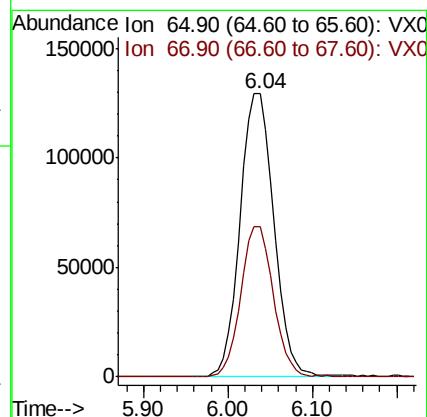
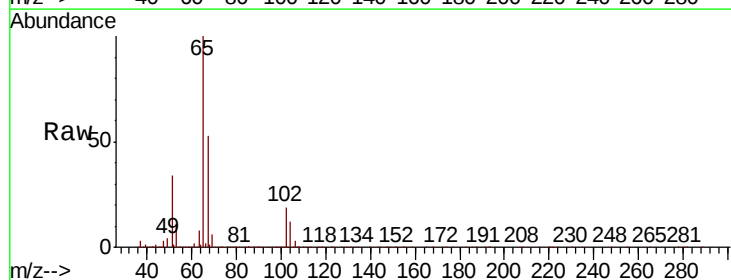
Acq: 24 Jul 2020 00:43

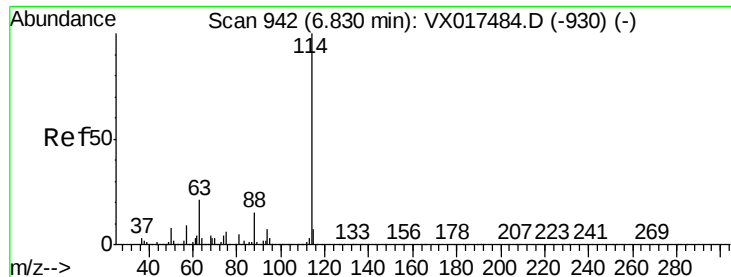
Tgt Ion: 65 Resp: 351751

Ion Ratio Lower Upper

65 100

67 50.7 0.0 102.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.84 min Scan# 943

Delta R.T. 0.01 min

Lab File: VX017514.D

Acq: 24 Jul 2020 00:43

Instrument :

MSVOA_X

ClientSampleId :

PB130403ZHE#04

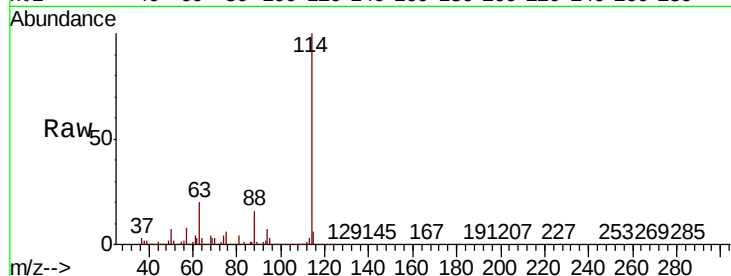
Tot Ion:114 Resp: 858315

Ion Ratio Lower Upper

114 100

63 20.2 0.0 40.6

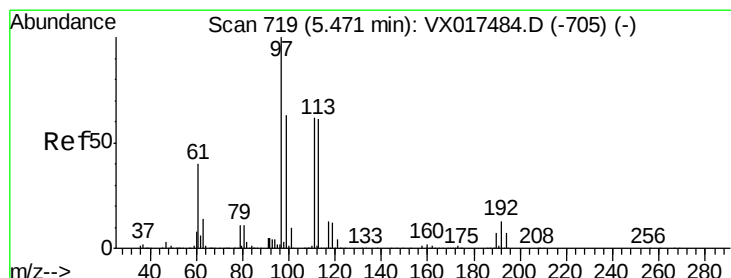
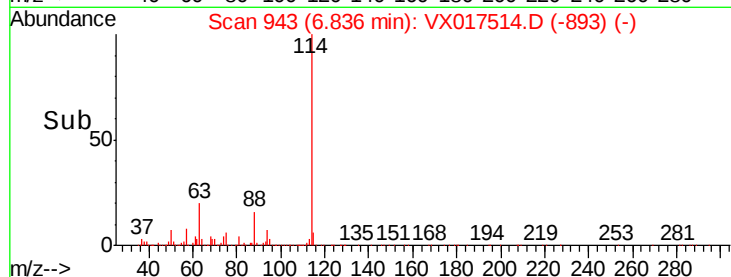
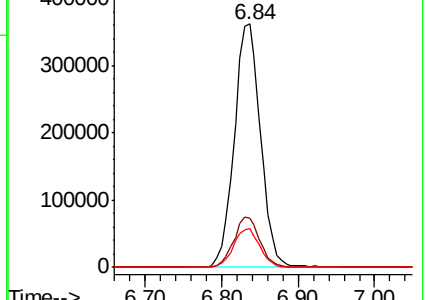
88 16.1 0.0 33.4



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: 51.309 ug/l

RT: 5.47 min Scan# 719

Delta R.T. -0.00 min

Lab File: VX017514.D

Acq: 24 Jul 2020 00:43

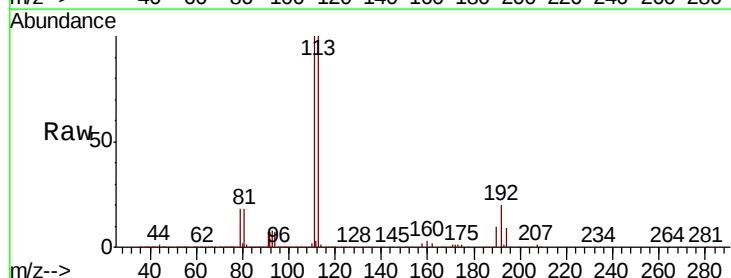
Tgt Ion:113 Resp: 294539

Ion Ratio Lower Upper

113 100

111 100.6 80.7 121.1

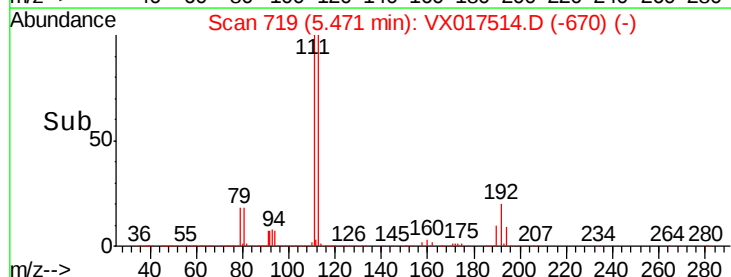
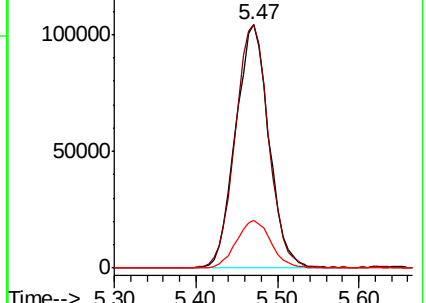
192 20.6 16.9 25.3

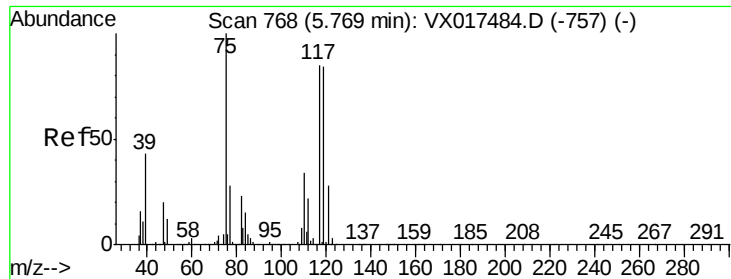


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.721 ug/l

RT: 5.62 min Scan# 744

Delta R.T. -0.15 min

Lab File: VX017514.D

Acq: 24 Jul 2020 00:43

Instrument :

MSVOA_X

ClientSampleId :

PB130403ZHE#04

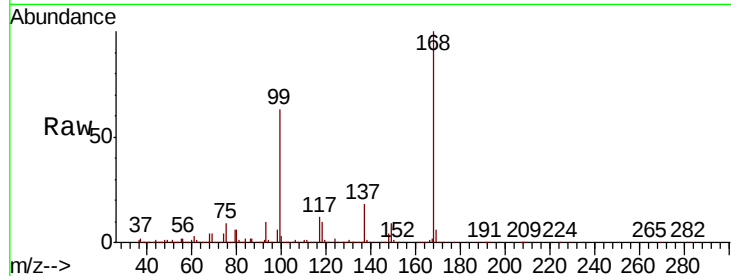
Tot Ion: 75 Resp: 38867

Ion Ratio Lower Upper

75 100

110 0.0 18.1 54.3#

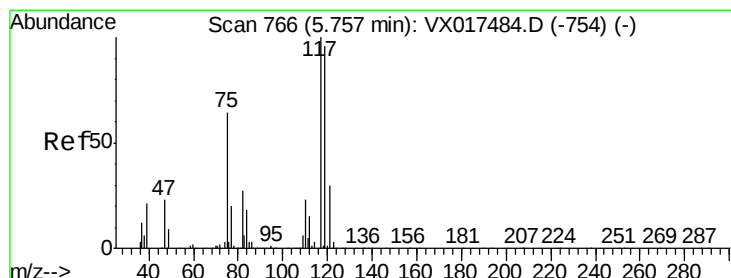
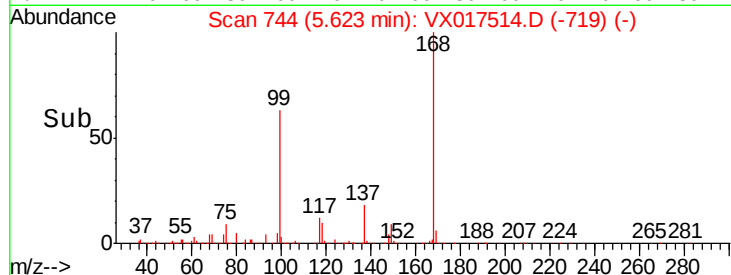
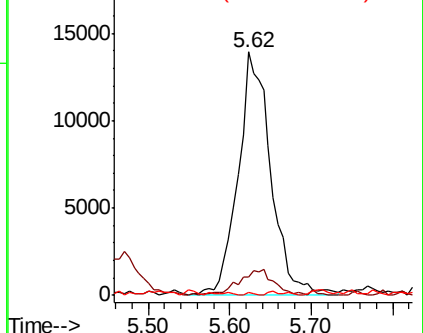
77 0.3 24.6 37.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0



#38

Carbon Tetrachloride

Concen: 5.087 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.13 min

Lab File: VX017514.D

Acq: 24 Jul 2020 00:43

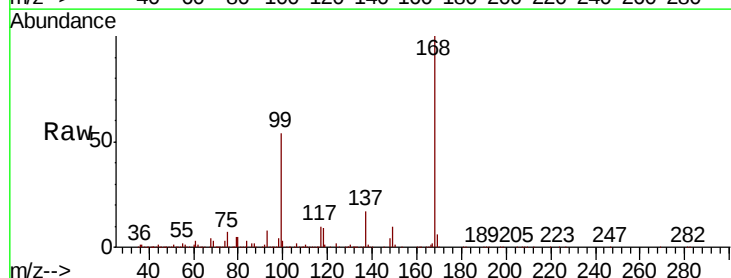
Tgt Ion: 117 Resp: 50852

Ion Ratio Lower Upper

117 100

119 5.3 75.4 113.0#

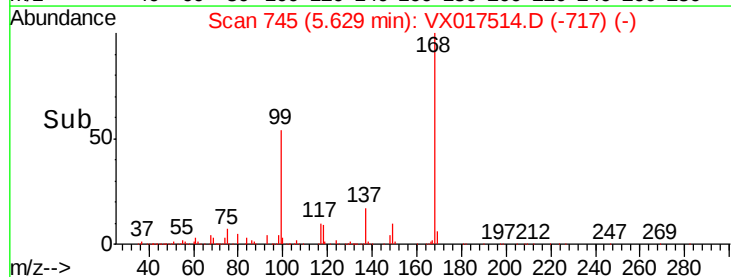
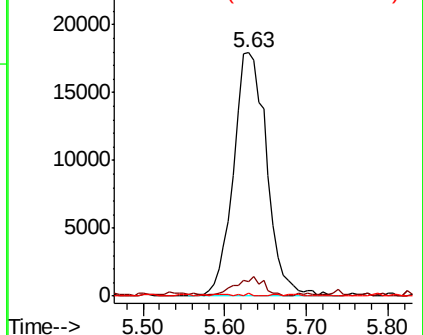
121 1.2 24.3 36.5#

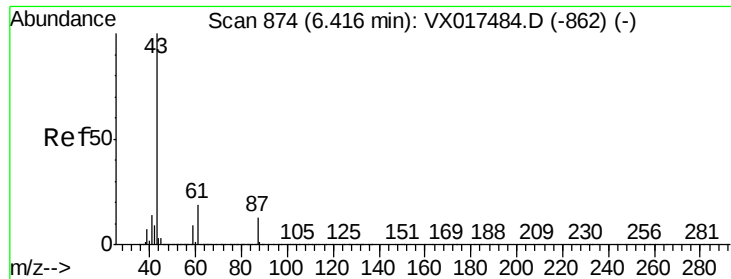


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



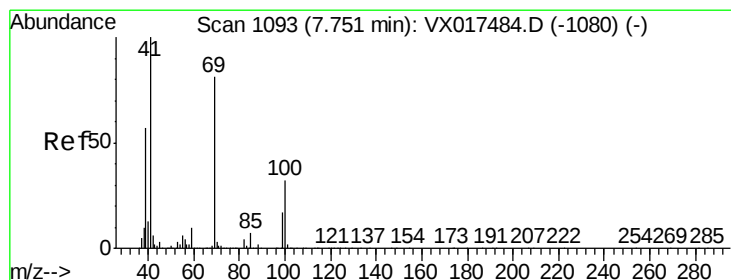
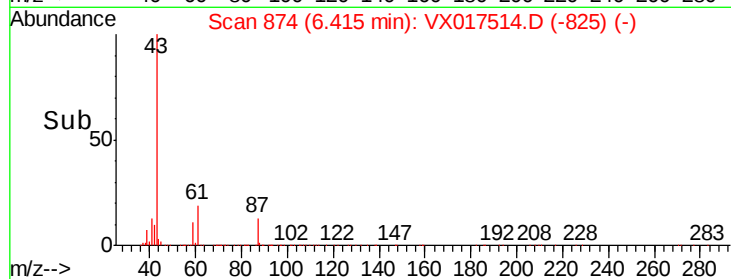
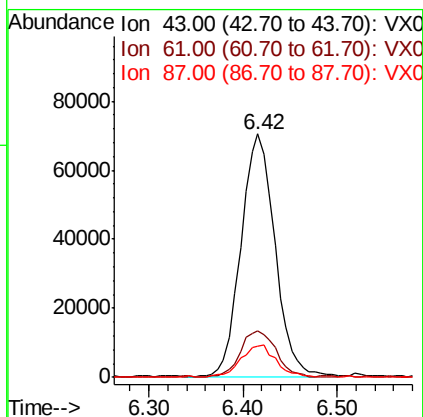
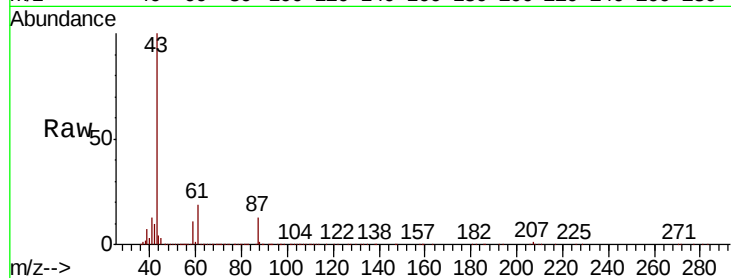


#43

Isopropyl Acetate
 Concen: 11.863 ug/l
 RT: 6.42 min Scan# 874
 Delta R.T. -0.00 min
 Lab File: VX017514.D
 Acq: 24 Jul 2020 00:43

Instrument :
 MSVOA_X
 ClientSampleId :
 PB130403ZHE#04

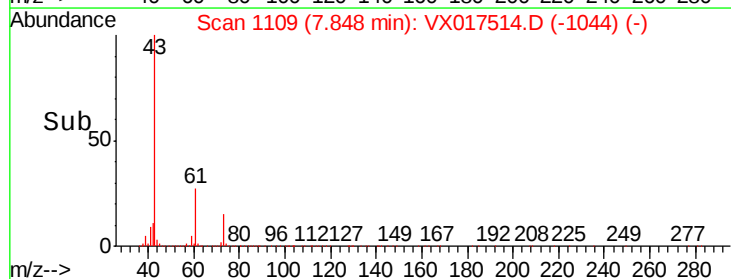
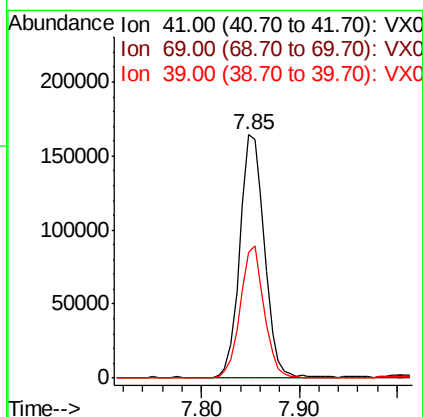
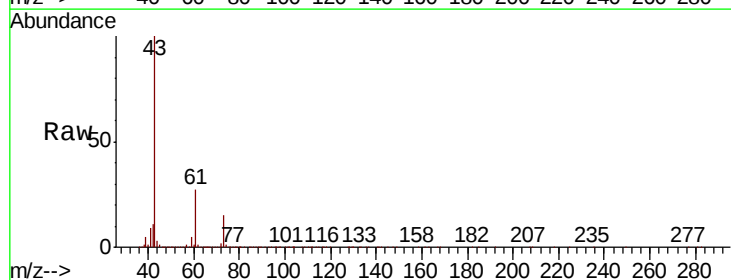
Tot Ion	Ratio	Lower	Upper
43	100		
61	19.7	15.5	23.3
87	13.7	10.5	15.7

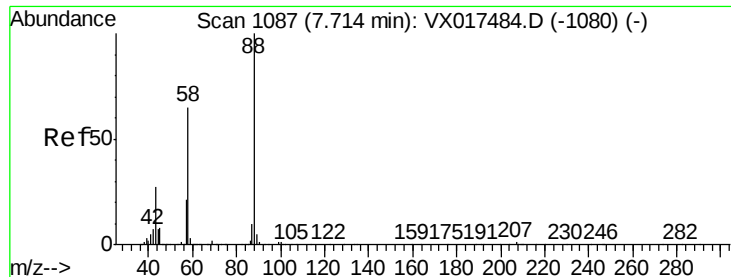


#48

Methyl methacrylate
 Concen: 38.831 ug/l
 RT: 7.85 min Scan# 1109
 Delta R.T. 0.10 min
 Lab File: VX017514.D
 Acq: 24 Jul 2020 00:43

Tgt Ion	Ratio	Lower	Upper
41	100		
69	0.2	63.1	94.7#
39	53.3	45.1	67.7

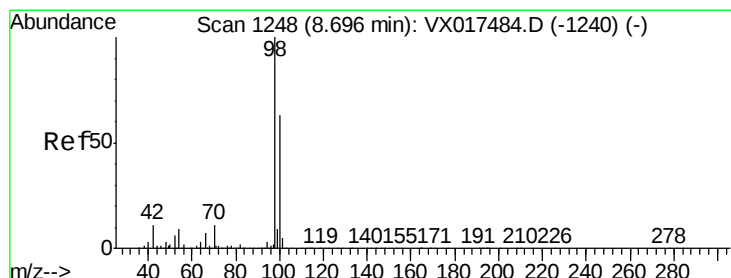
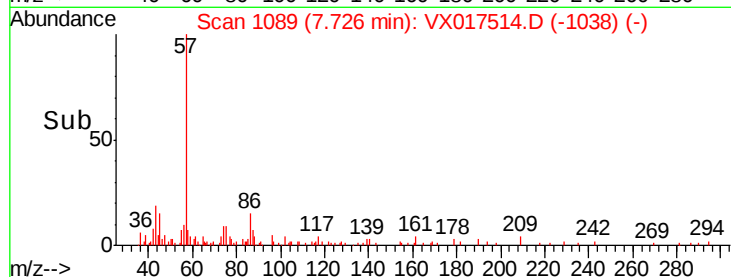
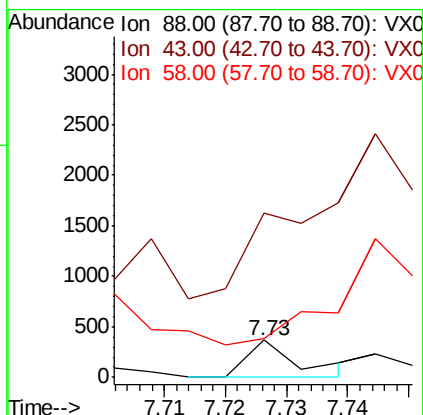
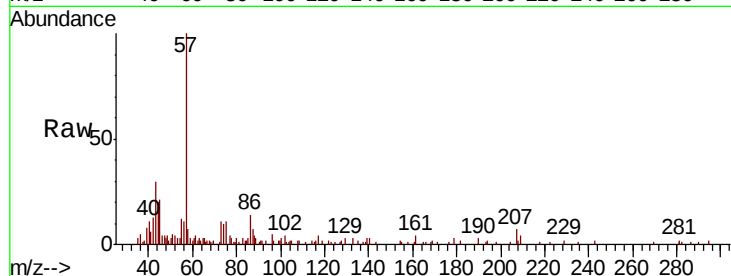




#49
1,4-Dioxane
Concen: 1.529 ug/l
RT: 7.73 min Scan# 1089
Delta R.T. 0.01 min
Lab File: VX017514.D
Acq: 24 Jul 2020 00:43

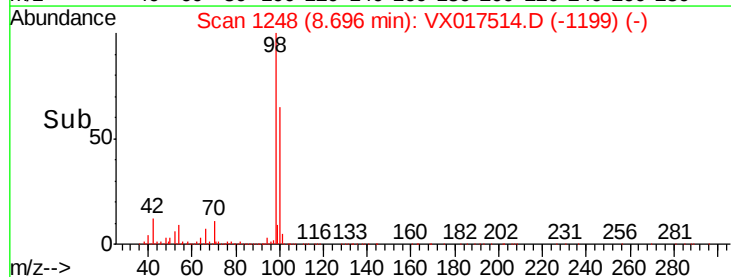
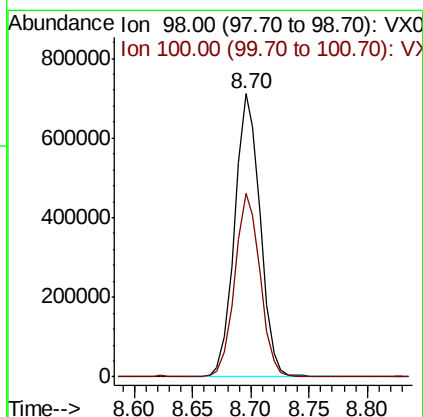
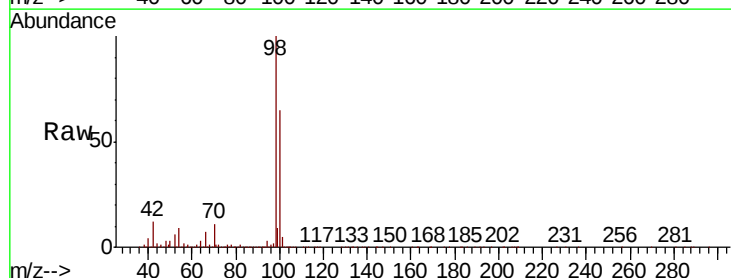
Instrument :
MSVOA_X
ClientSampleId :
PB130403ZHE#04

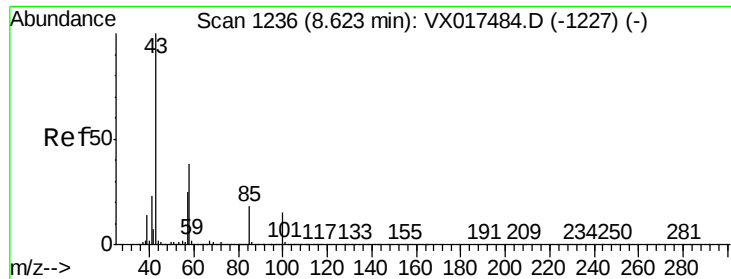
Tot Ion: 88 Resp: 216
Ion Ratio Lower Upper
88 100
43 0.0 27.8 41.6#
58 0.0 58.3 87.5#



#50
Toluene-d8
Concen: 52.573 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. -0.00 min
Lab File: VX017514.D
Acq: 24 Jul 2020 00:43

Tgt Ion: 98 Resp: 1088713
Ion Ratio Lower Upper
98 100
100 64.2 52.3 78.5





#51

4-Methyl-2-Pentanone

Concen: 19.362 ug/l

RT: 8.59 min Scan# 1231

Delta R.T. -0.03 min

Lab File: VX017514.D

Acq: 24 Jul 2020 00:43

Instrument :

MSVOA_X

ClientSampleId :

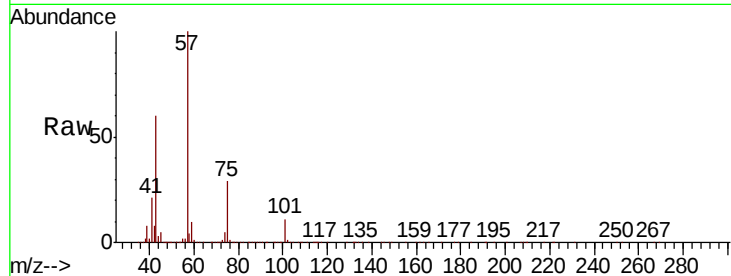
PB130403ZHE#04

Tot Ion: 43 Resp: 171682

Ion Ratio Lower Upper

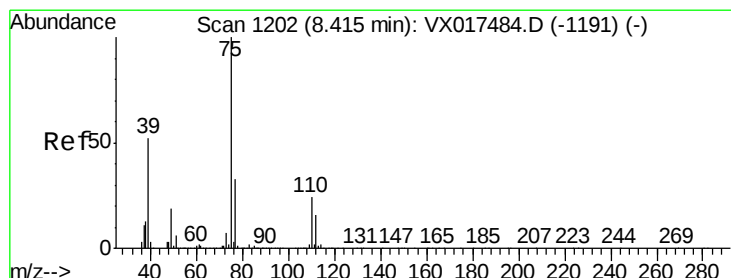
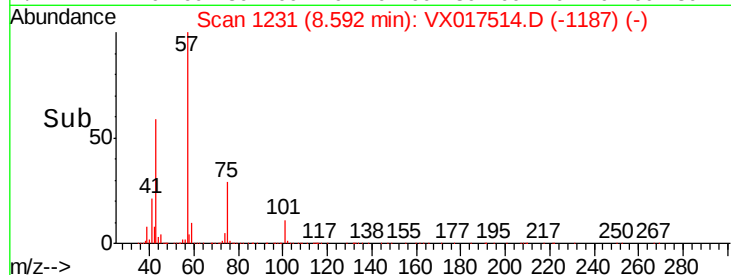
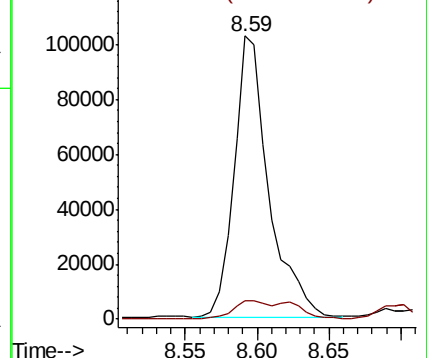
43 100

58 7.0 31.0 46.4#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#54

cis-1,3-Dichloropropene

Concen: 6.850 ug/l

RT: 8.59 min Scan# 1231

Delta R.T. 0.18 min

Lab File: VX017514.D

Acq: 24 Jul 2020 00:43

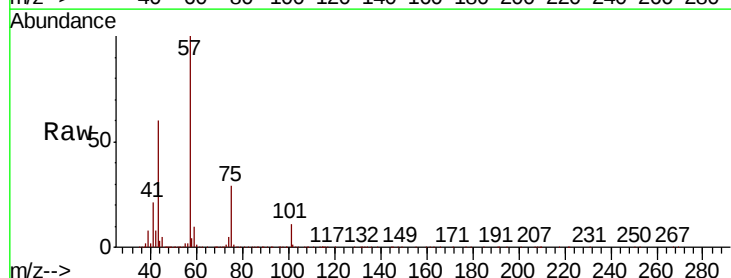
Tgt Ion: 75 Resp: 72762

Ion Ratio Lower Upper

75 100

77 0.3 25.5 38.3#

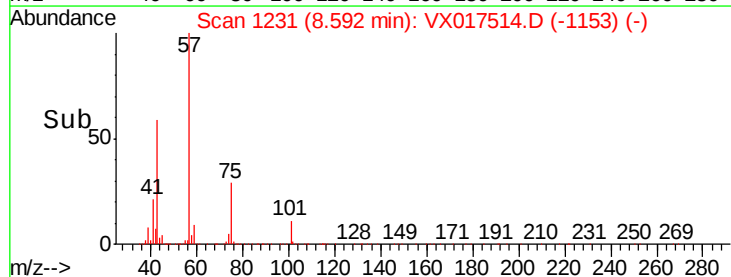
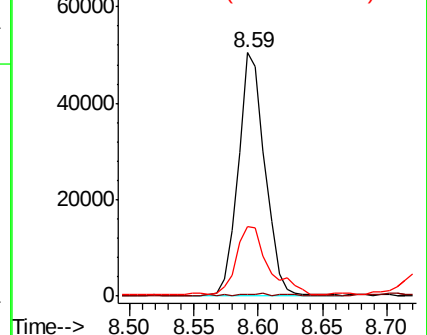
39 27.5 41.8 62.8#

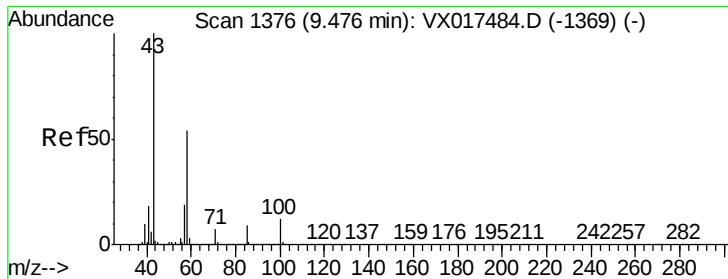


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0

Ion 39.00 (38.70 to 39.70): VX0

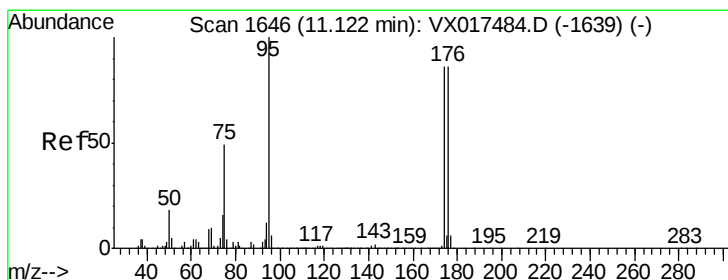
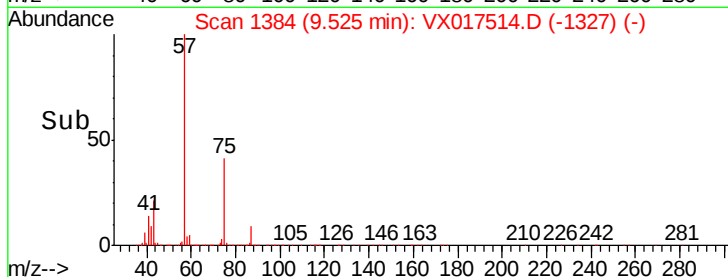
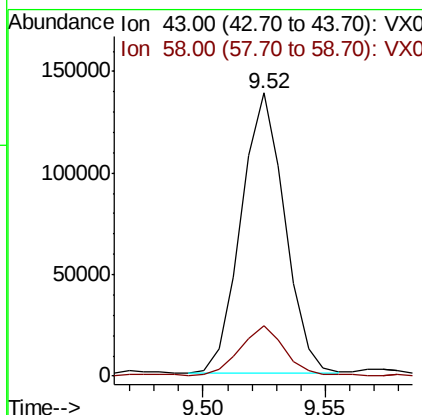
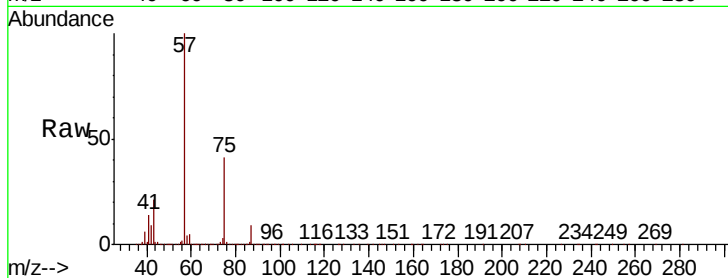




#59
2-Hexanone
Concen: 25.727 ug/l
RT: 9.52 min Scan# 1384
Delta R.T. 0.05 min
Lab File: VX017514.D
Acq: 24 Jul 2020 00:43

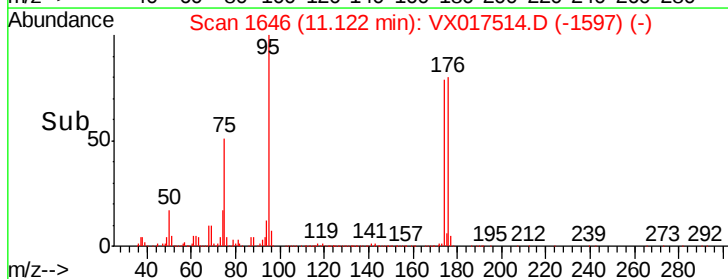
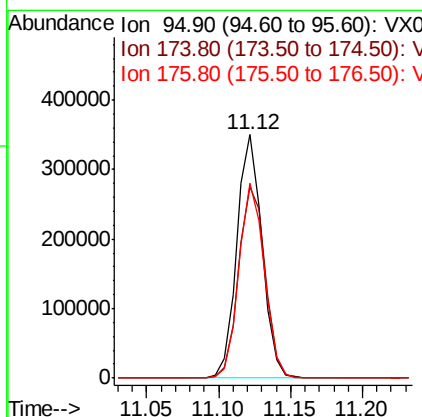
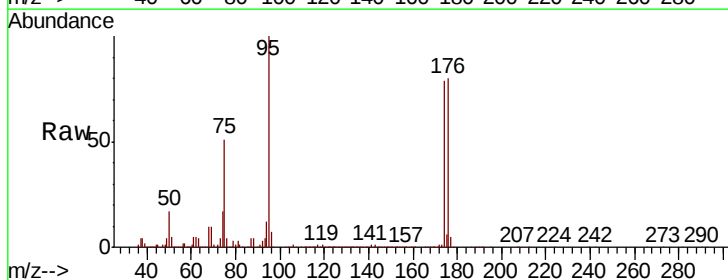
Instrument :
MSVOA_X
ClientSampleId :
PB130403ZHE#04

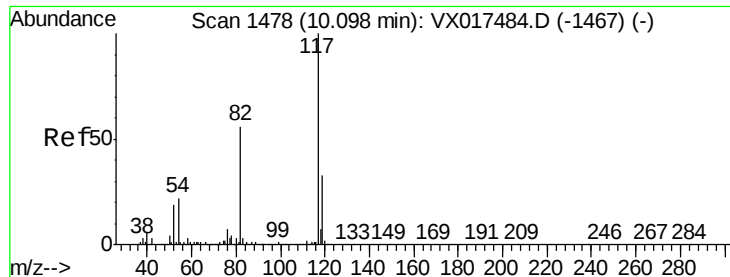
Tot Ion: 43 Resp: 171753
Ion Ratio Lower Upper
43 100
58 18.3 26.6 79.8#



#62
4-Bromofluorobenzene
Concen: 51.426 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. -0.00 min
Lab File: VX017514.D
Acq: 24 Jul 2020 00:43

Tgt Ion: 95 Resp: 426202
Ion Ratio Lower Upper
95 100
174 82.9 0.0 169.0
176 80.9 0.0 161.0

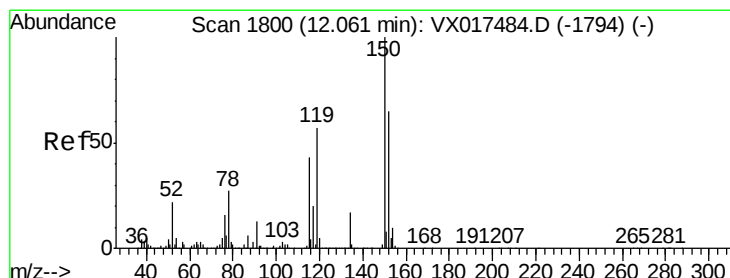
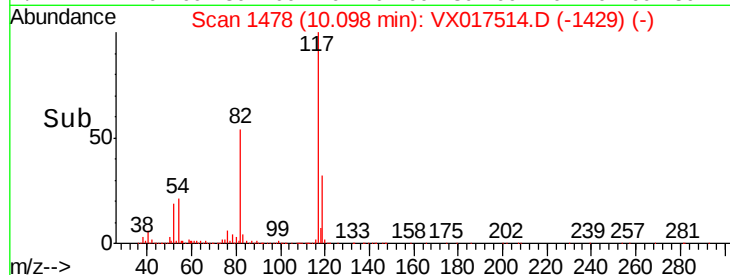
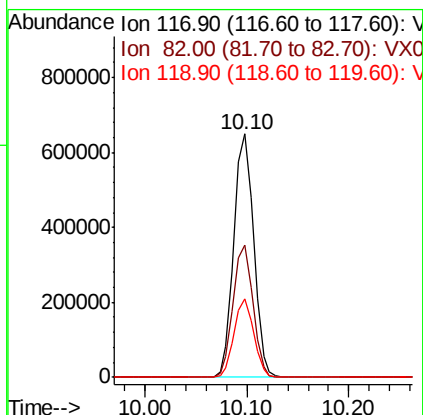
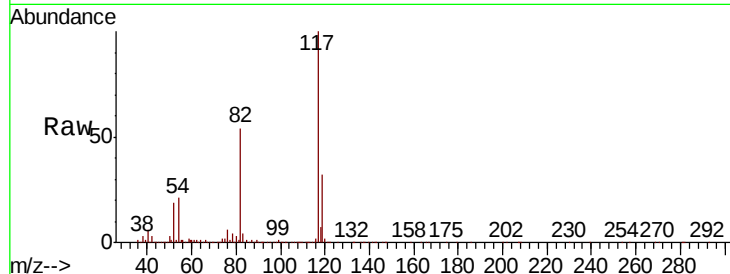




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX017514.D
Acq: 24 Jul 2020 00:43

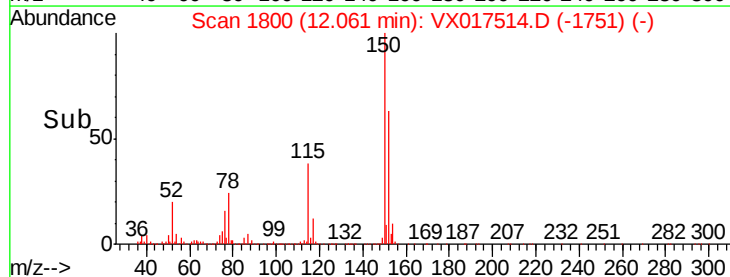
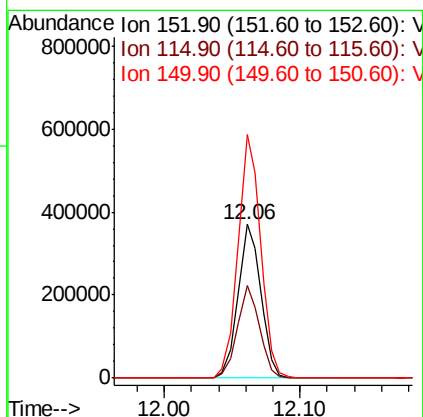
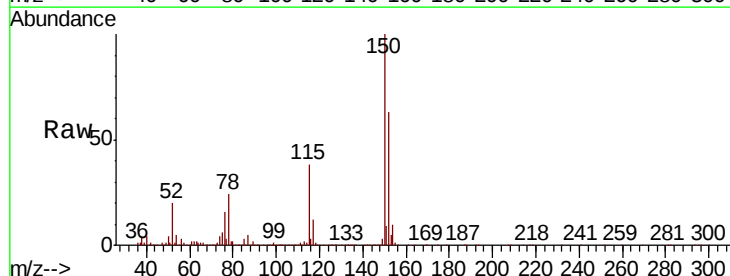
Instrument :
MSVOA_X
ClientSampleId :
PB130403ZHE#04

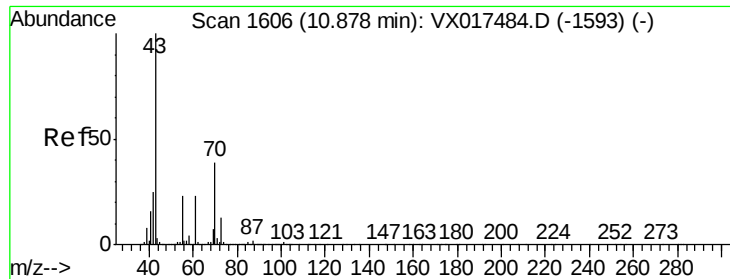
Tot Ion:117 Resp: 871718
Ion Ratio Lower Upper
117 100
82 54.3 44.0 66.0
119 32.2 25.4 38.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. -0.00 min
Lab File: VX017514.D
Acq: 24 Jul 2020 00:43

Tgt Ion:152 Resp: 430619
Ion Ratio Lower Upper
152 100
115 58.6 65.5 196.6#
150 157.0 0.0 412.6





#74

N-amvl acetate

Concen: 0.597 ug/l

RT: 10.80 min Scan# 1594

Delta R.T. -0.07 min

Lab File: VX017514.D

Acq: 24 Jul 2020 00:43

Instrument :

MSVOA_X

ClientSampleId :

PB130403ZHE#04

Tot Ion: 43 Resp: 7837

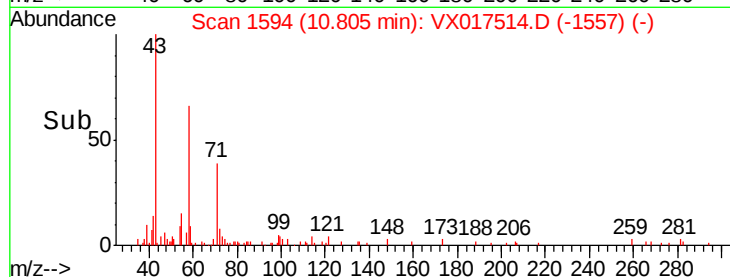
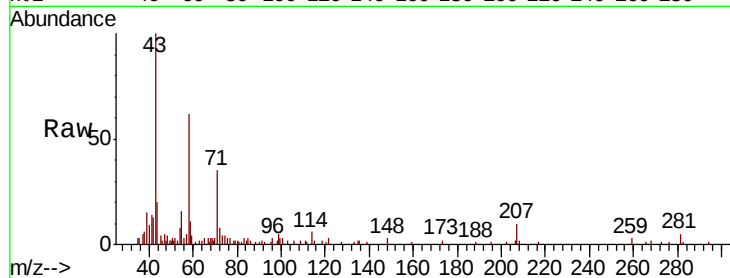
Ion Ratio Lower Upper

43 100

70 6.8 32.3 48.5#

55 15.5 18.4 27.6#

61 0.0 18.6 28.0#

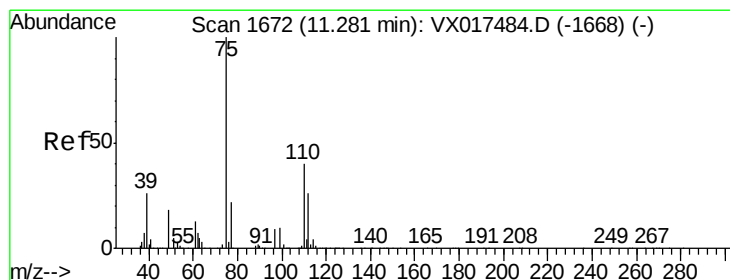
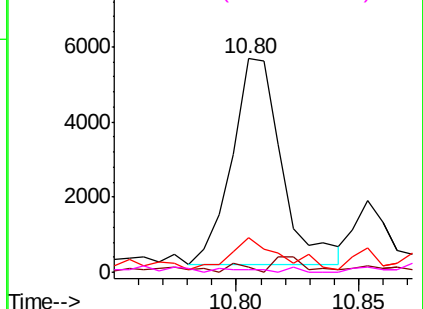


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0



#76

1,2,3-Trichloropropane

Concen: 24.892 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX017514.D

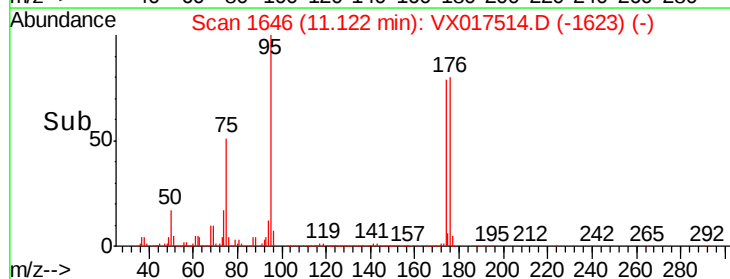
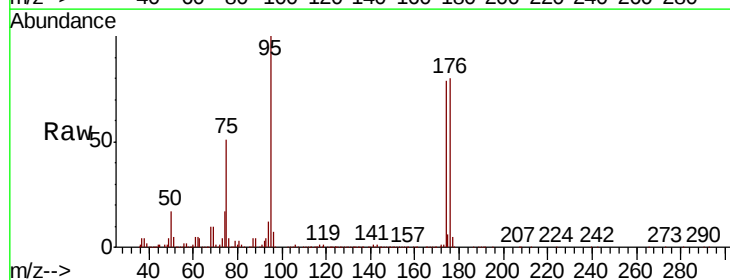
Acq: 24 Jul 2020 00:43

Tgt Ion: 75 Resp: 220491

Ion Ratio Lower Upper

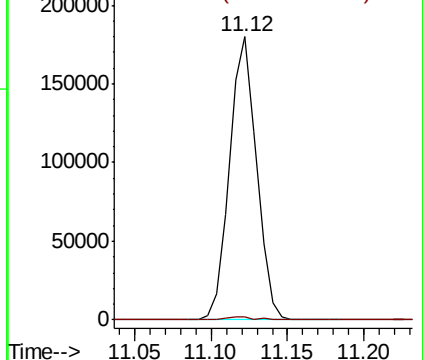
75 100

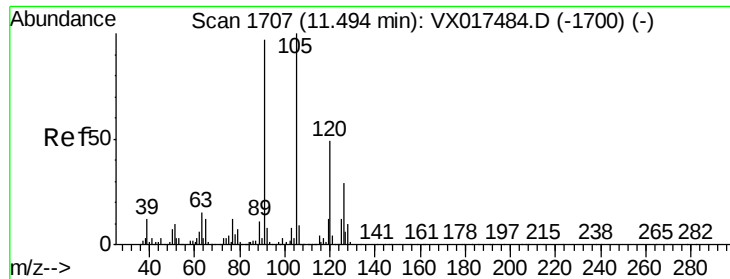
77 1.3 21.8 65.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#80

1,3,5-Trimethylbenzene

Concen: 0.321 ug/l

RT: 11.49 min Scan# 1706

Delta R.T. -0.01 min

Lab File: VX017514.D

Acq: 24 Jul 2020 00:43

Instrument :

MSVOA_X

ClientSampleId :

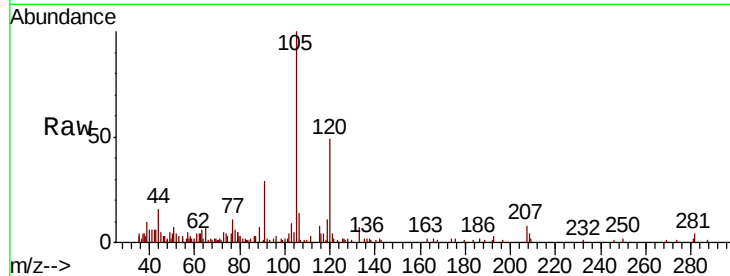
PB130403ZHE#04

Tot Ion:105 Resp: 8093

Ion Ratio Lower Upper

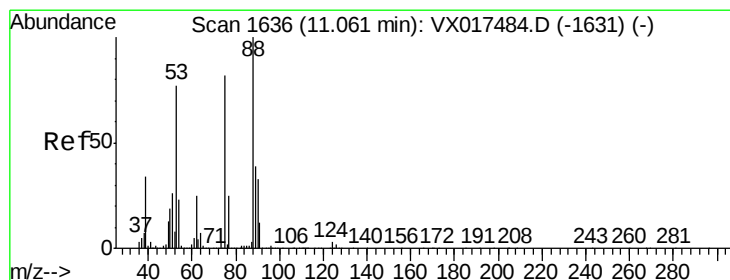
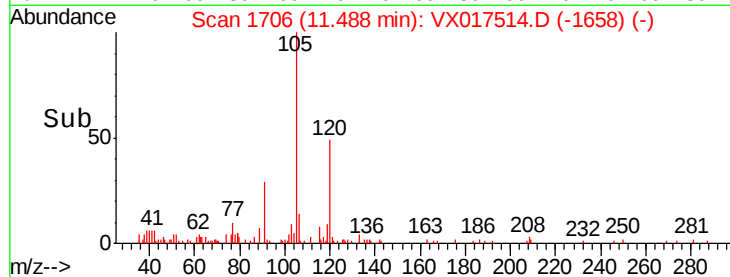
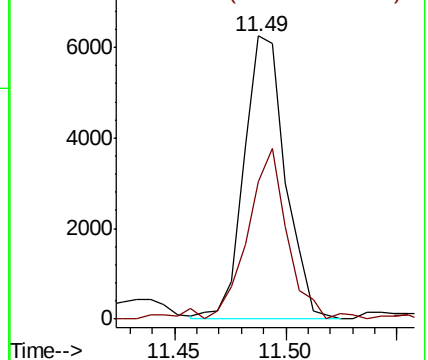
105 100

120 59.5 24.1 72.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 62.721 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX017514.D

Acq: 24 Jul 2020 00:43

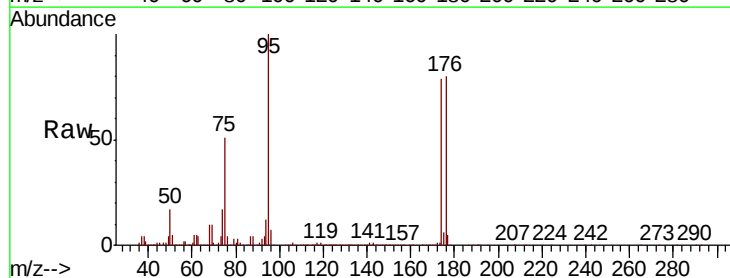
Tgt Ion: 75 Resp: 220491

Ion Ratio Lower Upper

75 100

53 0.3 75.9 113.9#

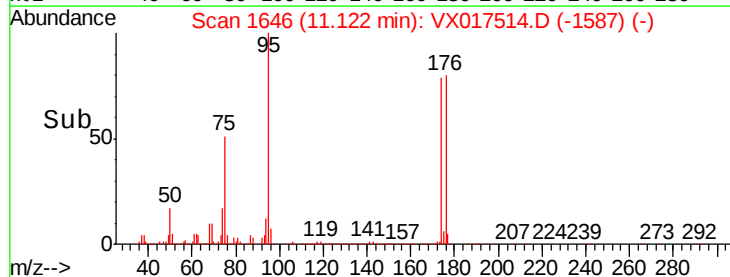
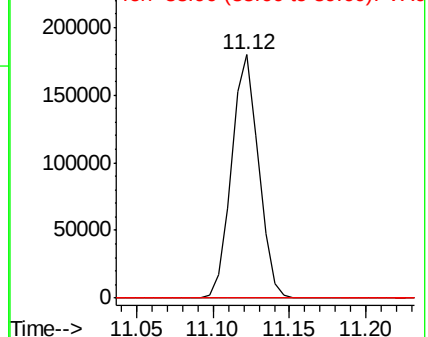
89 0.1 37.8 56.6#

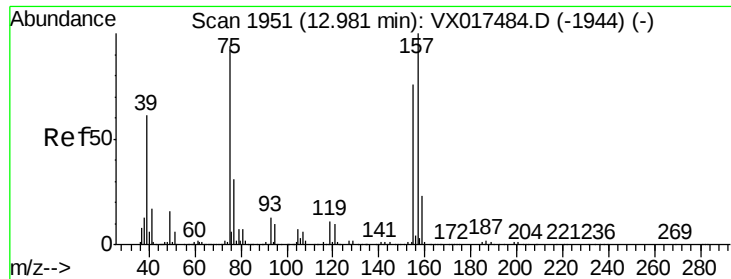


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0





#92

1,2-Dibromo-3-Chloropropane

Concen: 2.621 ug/l

RT: 12.99 min Scan# 1953

Delta R.T. 0.01 min

Lab File: VX017514.D

Acq: 24 Jul 2020 00:43

Instrument :

MSVOA_X

ClientSampleId :

PB130403ZHE#04

Tot Ion: 75 Resp: 122

Ion Ratio Lower Upper

75 100

155 22.1 42.3 126.8#

157 0.0 54.3 162.9#

