

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX110620\
 Data File : VX019317.D
 Acq On : 05 Nov 2020 16:25
 Operator : JC/MD
 Sample : PB132824ZHE#07
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 45 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB132824ZHE#07

Quant Time: Nov 06 01:09:03 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X102720W.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 27 13:55:07 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	272462	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	484741	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	467950	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	228513	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	197491	56.21	ug/l	0.00
Spiked Amount			Recovery	=	112.42%	
35) Dibromofluoromethane	5.46	113	156364	51.35	ug/l	0.00
Spiked Amount			Recovery	=	102.70%	
50) Toluene-d8	8.70	98	606538	52.84	ug/l	0.00
Spiked Amount			Recovery	=	105.68%	
62) 4-Bromofluorobenzene	11.12	95	230271	52.98	ug/l	0.00
Spiked Amount			Recovery	=	105.96%	

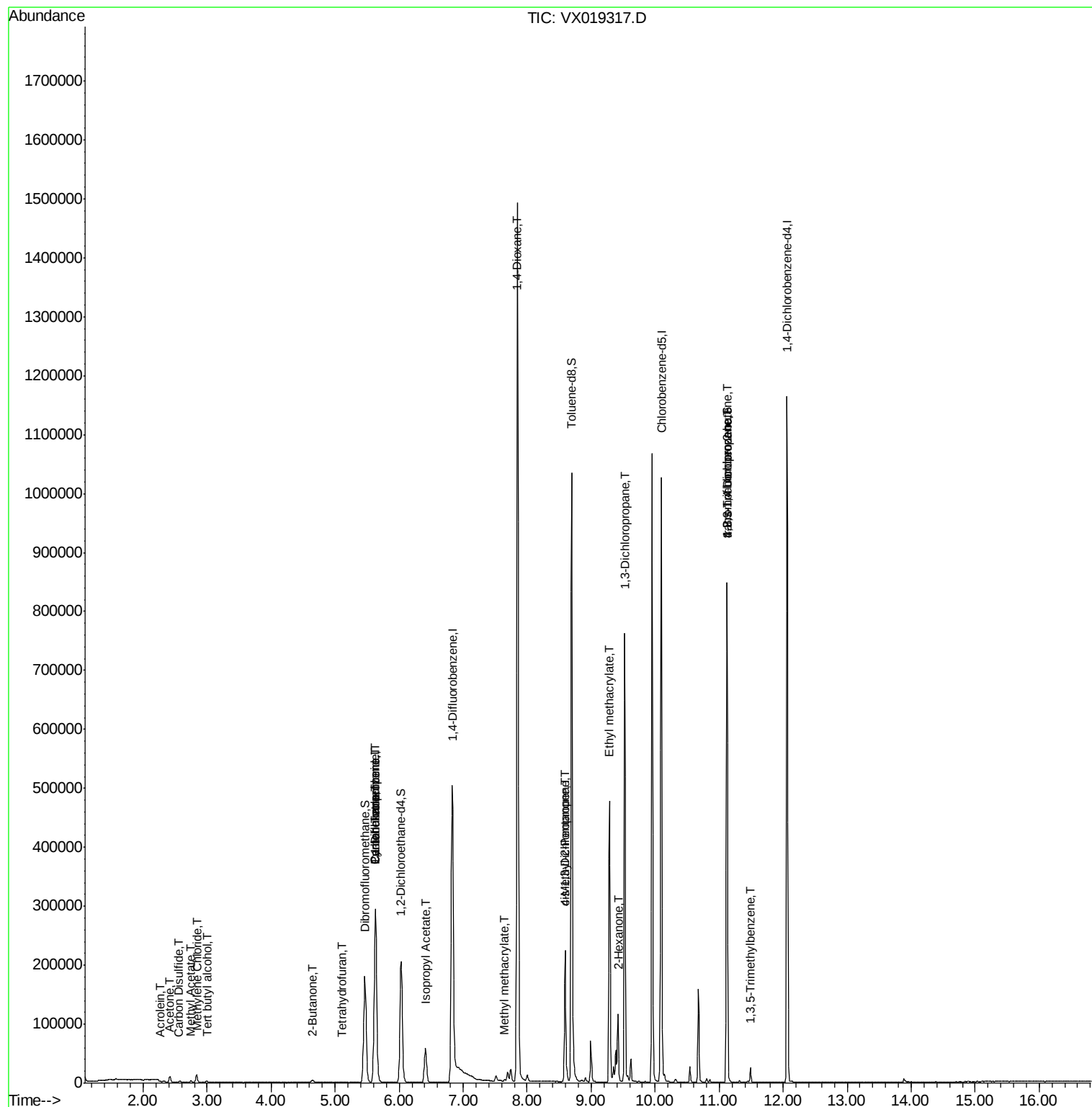
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	3.00	59	1622	2.337	ug/l #	72
13) Acrolein	2.26	56	53	5.815	ug/l #	1
16) Acetone	2.42	43	10113	8.343	ug/l	94
17) Carbon Disulfide	2.56	76	342	0.805	ug/l #	75
18) Methyl Acetate	2.75	43	2941	0.998	ug/l	97
20) Methylene Chloride	2.84	84	6282	2.064	ug/l	98
25) 2-Butanone	4.64	43	1664	0.871	ug/l #	70
29) Tetrahydrofuran	5.10	42	1051	0.873	ug/l #	82
31) Cyclohexane	5.64	56	5929	1.335	ug/l #	5
36) 1,1-Dichloropropene	5.63	75	22456	5.017	ug/l #	49
38) Carbon Tetrachloride	5.63	117	29146	6.388	ug/l #	17
43) Isopropyl Acetate	6.41	43	77447	11.129	ug/l	98
48) Methyl methacrylate	7.65	41	4094	1.222	ug/l #	9
49) 1,4-Dioxane	7.85	88	238	3.195	ug/l #	1
51) 4-Methyl-2-Pentanone	8.59	43	76401	19.102	ug/l #	47
54) cis-1,3-Dichloropropene	8.59	75	37363	6.866	ug/l #	62
56) Ethyl methacrylate	9.29	69	1256	0.257	ug/l #	1
57) 1,3-Dichloropropane	9.52	76	6665	1.224	ug/l #	42
59) 2-Hexanone	9.42	43	72416	23.785	ug/l #	20
76) 1,2,3-Trichloropropane	11.12	75	117620	24.928	ug/l #	37
80) 1,3,5-Trimethylbenzene	11.49	105	10587	0.775	ug/l	98
81) trans-1,4-Dichloro-2-buten	11.12	75	117620	65.636	ug/l #	12

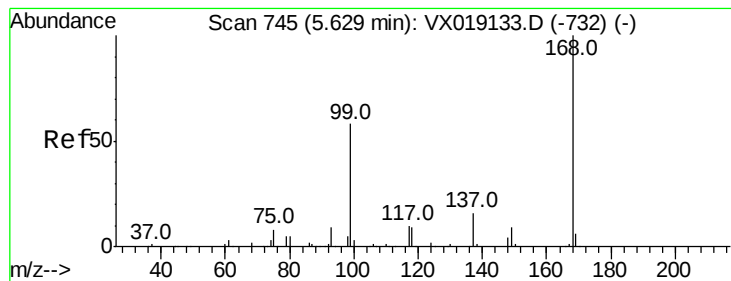
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Nov 06 01:09:03 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X102720W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 27 13:55:07 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 746

Delta R.T. 0.01 min

Lab File: VX019317.D

Acq: 05 Nov 2020 16:25

Instrument :

MSVOA_X

ClientSampleId :

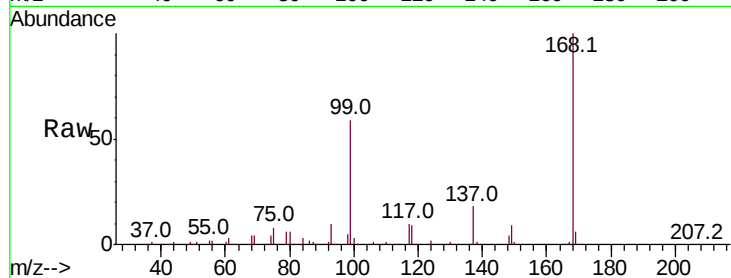
PB132824ZHE#07

Tot Ion:168 Resp: 272462

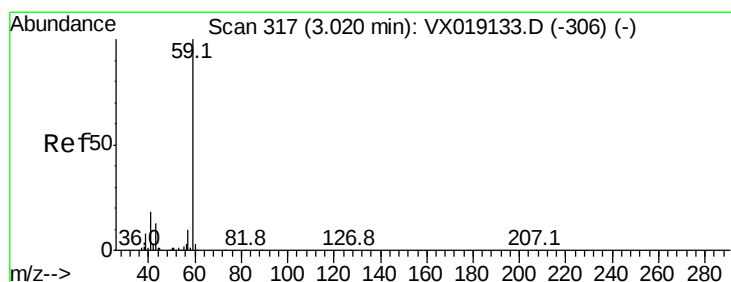
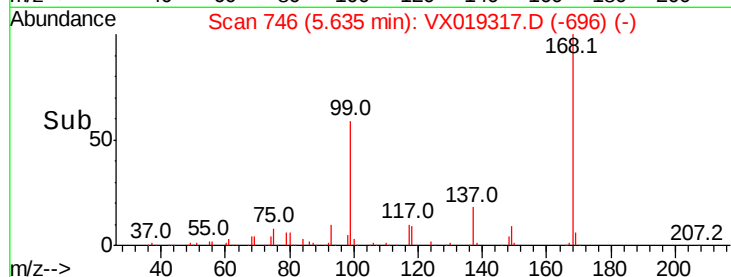
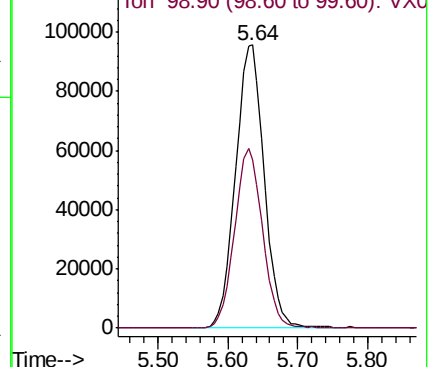
Ion Ratio Lower Upper

168 100

99 59.4 46.6 69.8



Abundance Ion 167.90 (167.60 to 168.60): V



#11

Tert butyl alcohol

Concen: 2.337 ug/l

RT: 3.00 min Scan# 314

Delta R.T. -0.02 min

Lab File: VX019317.D

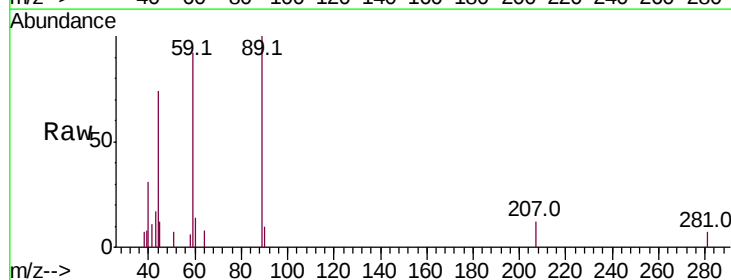
Acq: 05 Nov 2020 16:25

Tgt Ion: 59 Resp: 1622

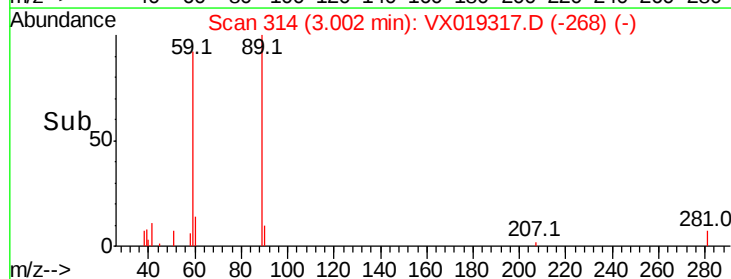
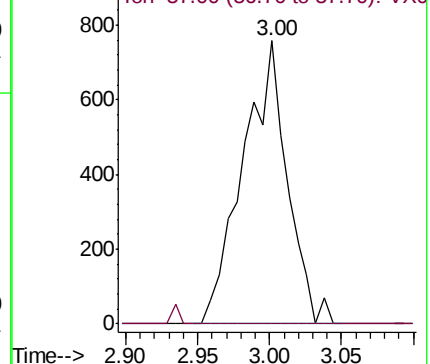
Ion Ratio Lower Upper

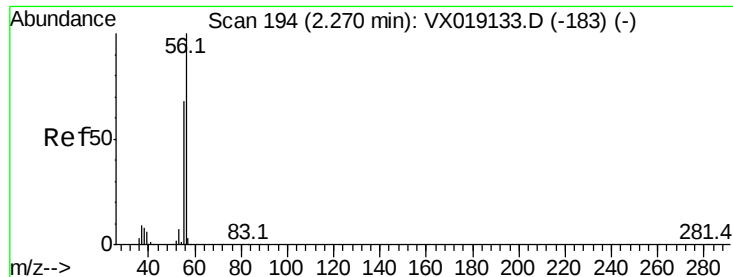
59 100

57 0.0 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VX0





#13

Acrolein

Concen: 5.815 ug/l

RT: 2.26 min Scan# 193

Delta R.T. -0.01 min

Lab File: VX019317.D

Acq: 05 Nov 2020 16:25

Instrument :

MSVOA_X

ClientSampleId :

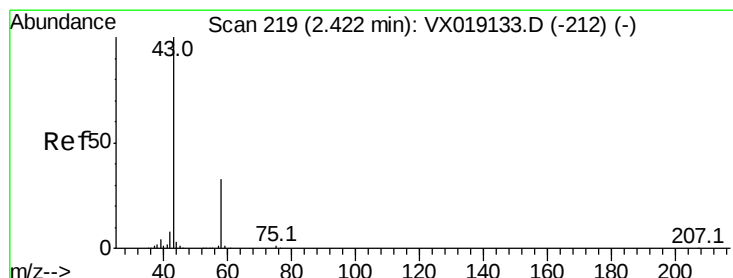
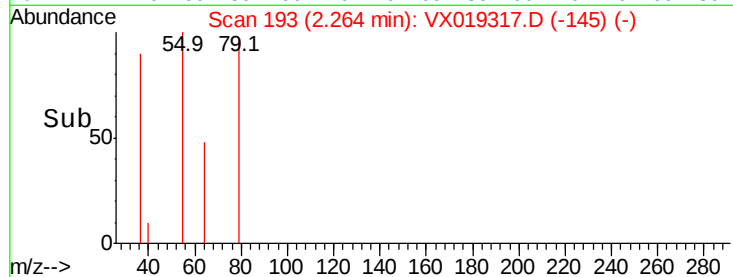
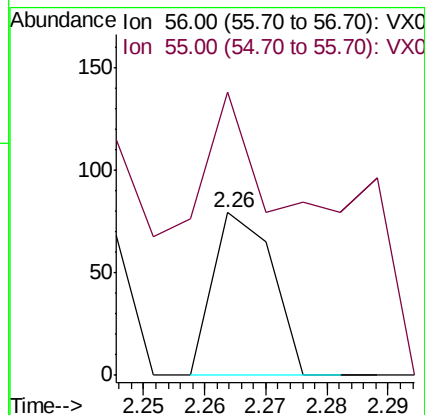
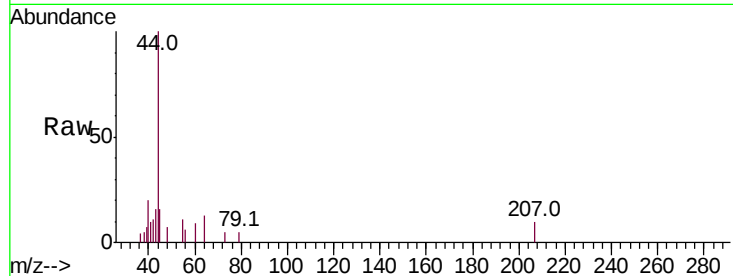
PB132824ZHE#07

Tot Ion: 56 Resp: 53

Ion Ratio Lower Upper

56 100

55 328.3 54.7 82.1#



#16

Acetone

Concen: 8.343 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.01 min

Lab File: VX019317.D

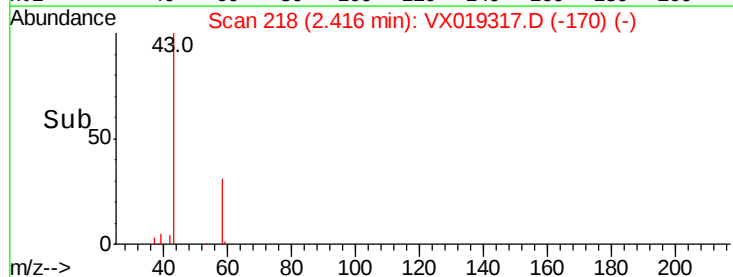
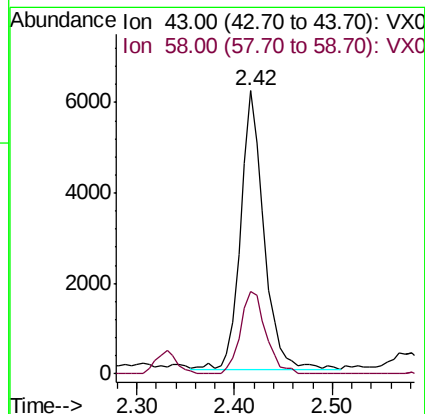
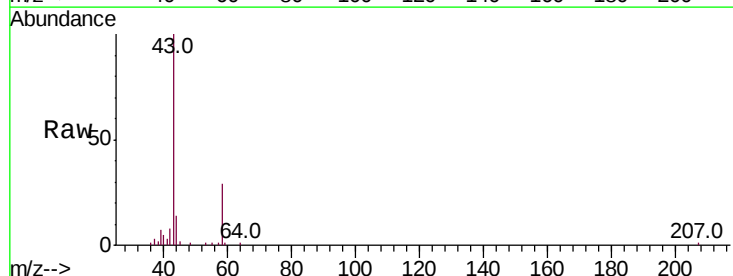
Acq: 05 Nov 2020 16:25

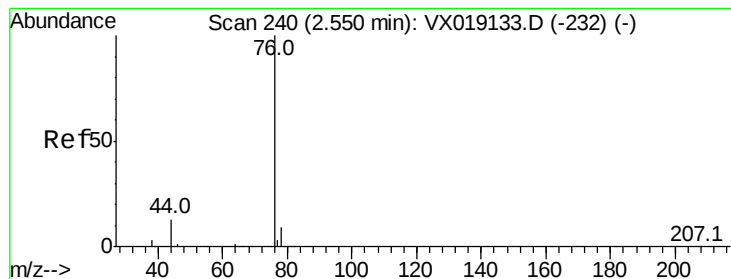
Tgt Ion: 43 Resp: 10113

Ion Ratio Lower Upper

43 100

58 29.5 26.3 39.5





#17

Carbon Disulfide

Concen: 0.805 ug/l

RT: 2.56 min Scan# 241

Delta R.T. 0.01 min

Lab File: VX019317.D

Acq: 05 Nov 2020 16:25

Instrument :

MSVOA_X

ClientSampleId :

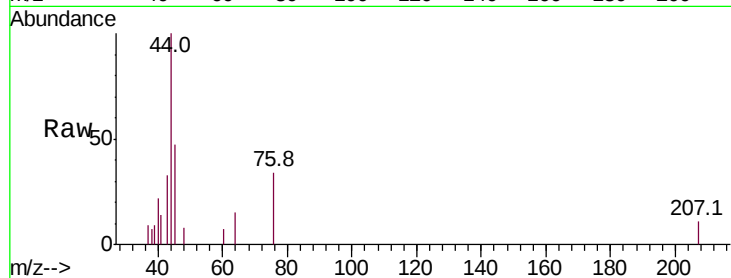
PB132824ZHE#07

Tot Ion: 76 Resp: 342

Ion Ratio Lower Upper

76 100

78 0.0 7.3 10.9#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.56

250

200

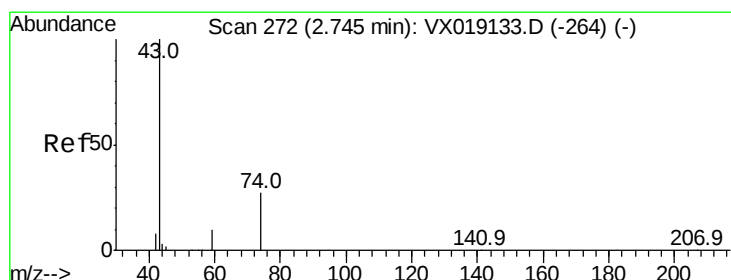
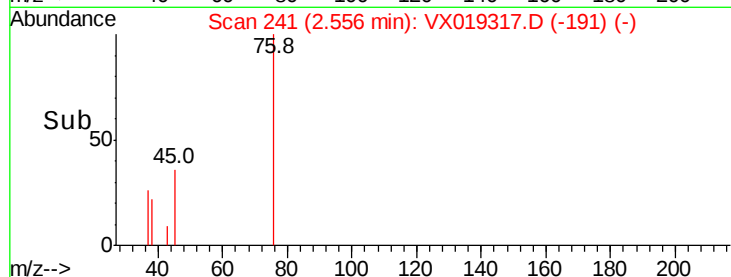
150

100

50

0

Time--> 2.50 2.55 2.60



#18

Methyl Acetate

Concen: 0.998 ug/l

RT: 2.75 min Scan# 272

Delta R.T. 0.00 min

Lab File: VX019317.D

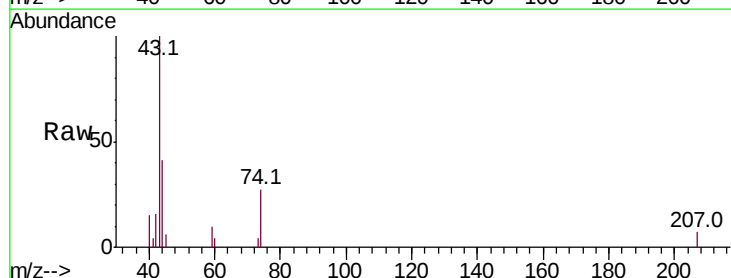
Acq: 05 Nov 2020 16:25

Tgt Ion: 43 Resp: 2941

Ion Ratio Lower Upper

43 100

74 26.6 22.6 33.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

2000

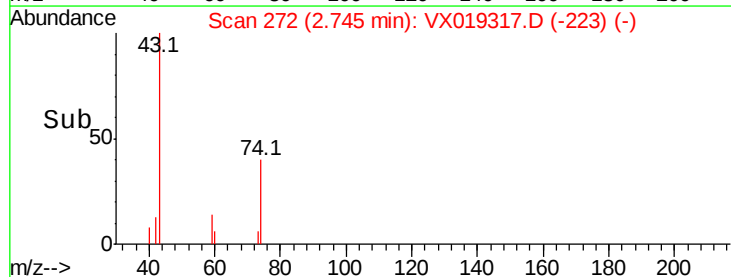
1500

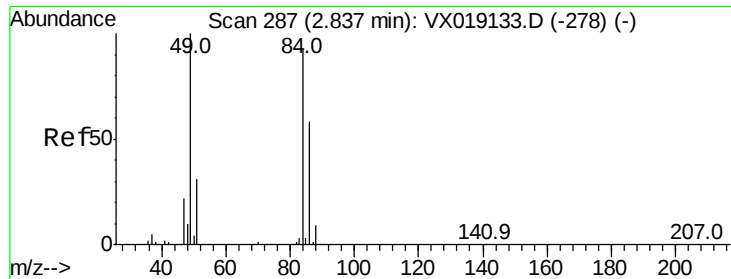
1000

500

0

Time--> 2.70 2.75 2.80 2.85

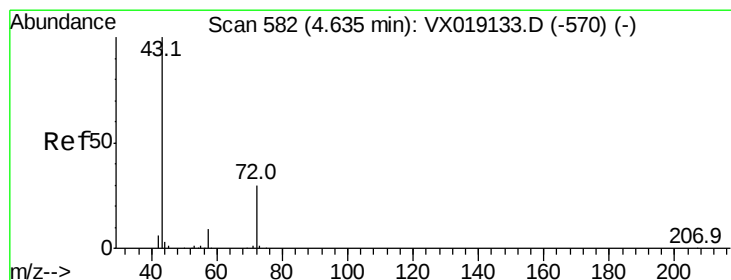
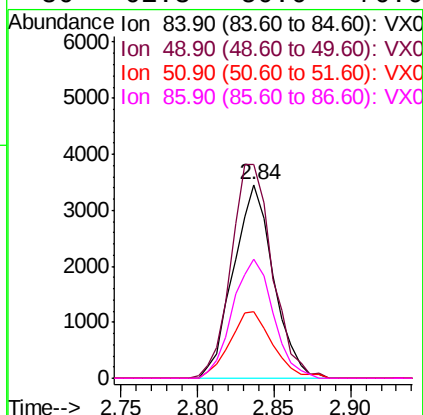
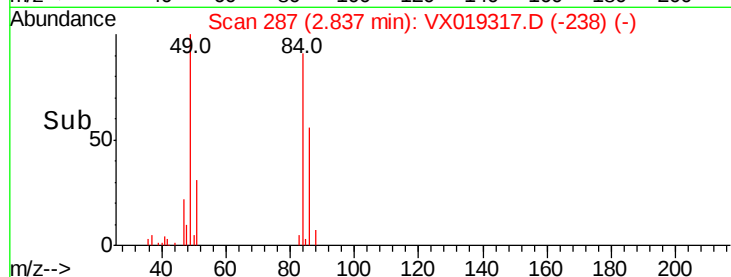
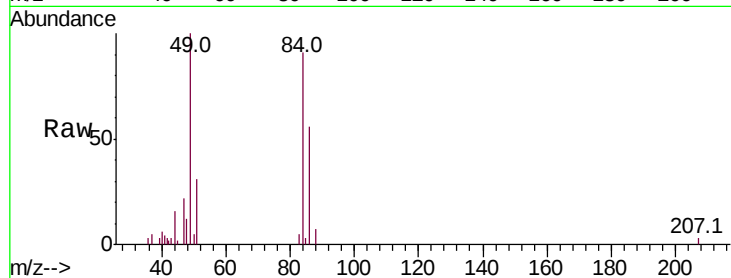




#20
Methvlene Chloride
Concen: 2.064 ug/l
RT: 2.84 min Scan# 287
Delta R.T. 0.00 min
Lab File: VX019317.D
Acq: 05 Nov 2020 16:25

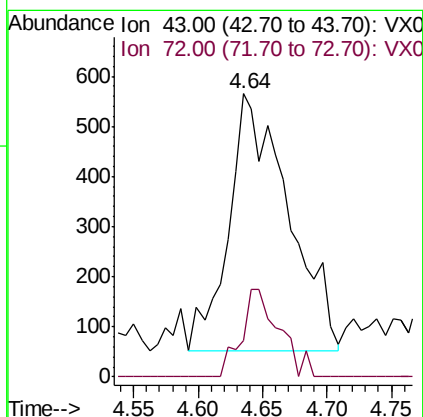
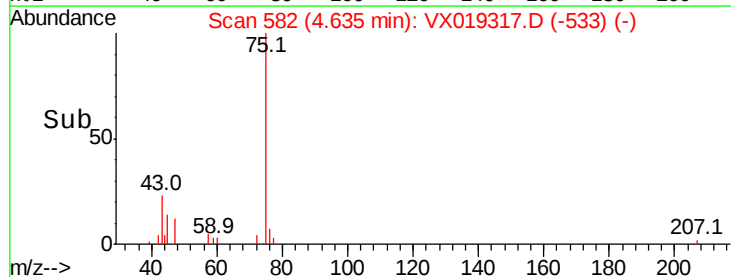
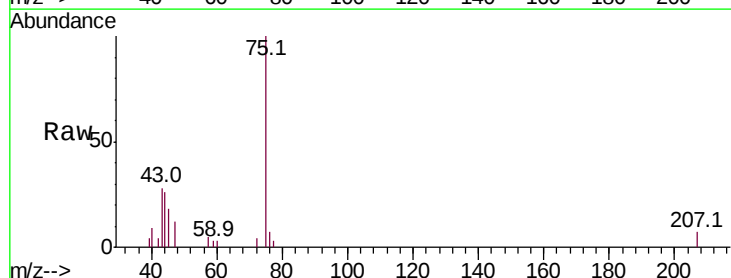
Instrument :
MSVOA_X
ClientSampleId :
PB132824ZHE#07

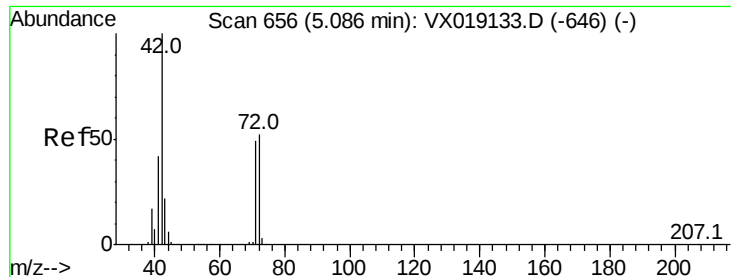
Tot Ion:	84	Resp:	6282
Ion	Ratio	Lower	Upper
84	100		
49	110.3	86.8	130.2
51	34.2	27.3	40.9
86	61.3	50.6	76.0



#25
2-Butanone
Concen: 0.871 ug/l
RT: 4.64 min Scan# 582
Delta R.T. 0.00 min
Lab File: VX019317.D
Acq: 05 Nov 2020 16:25

Tgt Ion:	43	Resp:	1664
Ion	Ratio	Lower	Upper
43	100		
72	14.2	24.6	36.8#





#29

Tetrahydrofuran

Concen: 0.873 ug/l

RT: 5.10 min Scan# 659

Delta R.T. 0.02 min

Lab File: VX019317.D

Acq: 05 Nov 2020 16:25

Instrument :

MSVOA_X

ClientSampleId :

PB132824ZHE#07

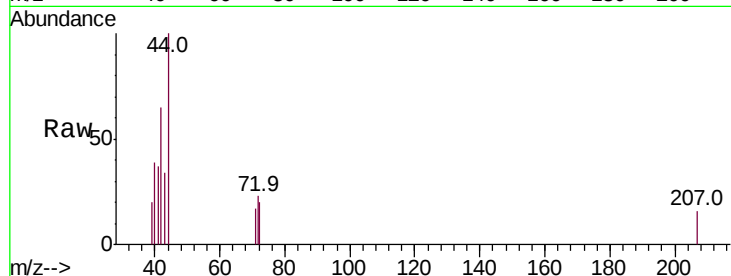
Tot Ion: 42 Resp: 1051

Ion Ratio Lower Upper

42 100

72 44.7 42.6 63.8

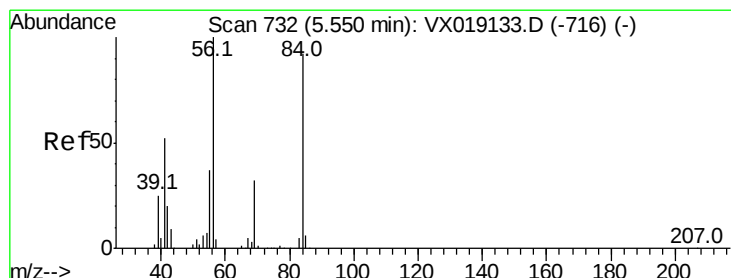
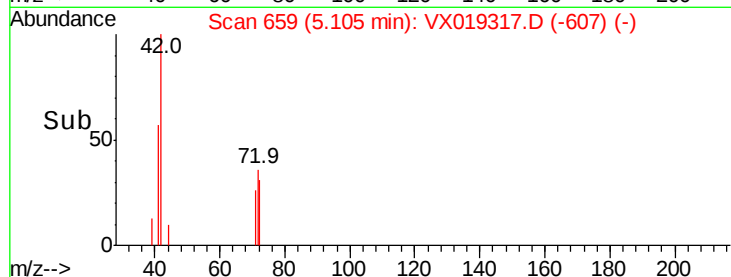
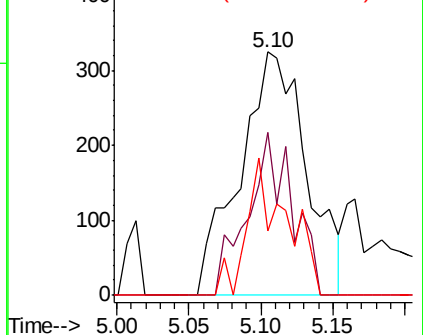
71 33.2 39.7 59.5#



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: 1.335 ug/l

RT: 5.64 min Scan# 746

Delta R.T. 0.09 min

Lab File: VX019317.D

Acq: 05 Nov 2020 16:25

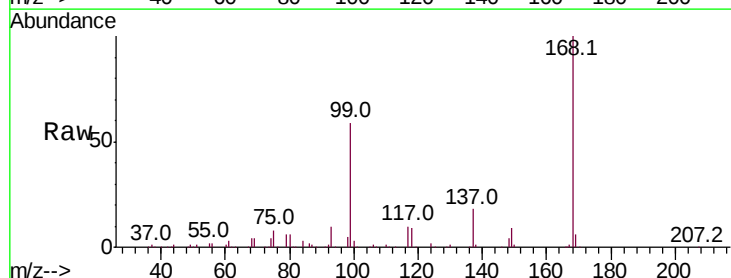
Tgt Ion: 56 Resp: 5929

Ion Ratio Lower Upper

56 100

69 168.1 25.9 38.9#

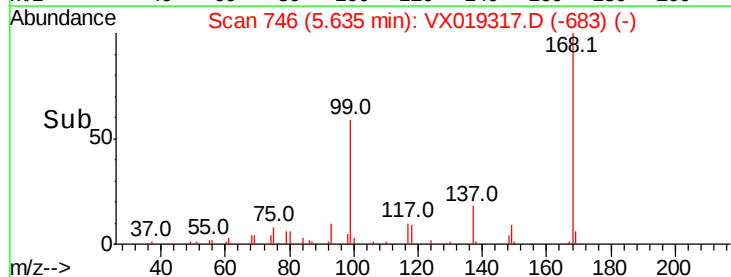
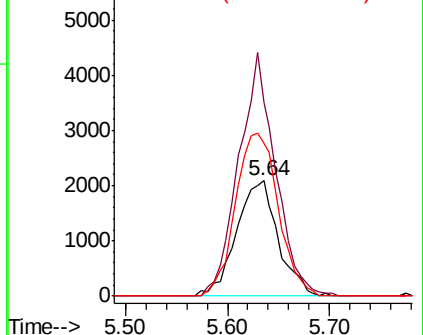
84 132.6 73.4 110.2#

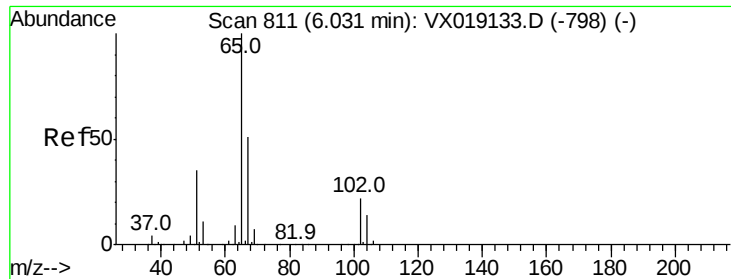


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 56.205 ug/l

RT: 6.03 min Scan# 811

Delta R.T. 0.00 min

Lab File: VX019317.D

Acq: 05 Nov 2020 16:25

Instrument :

MSVOA_X

ClientSampleId :

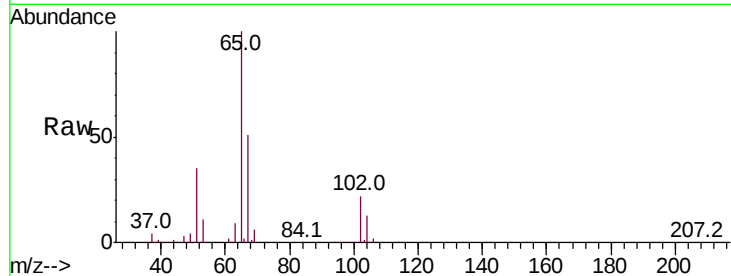
PB132824ZHE#07

Tot Ion: 65 Resp: 197491

Ion Ratio Lower Upper

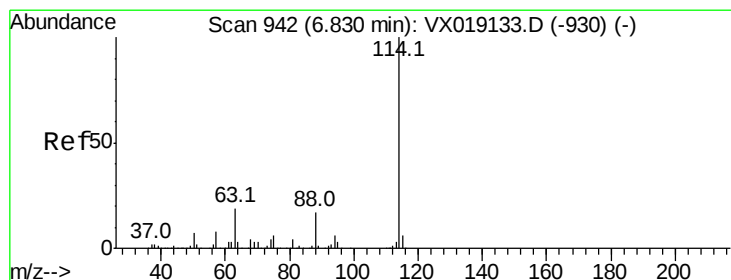
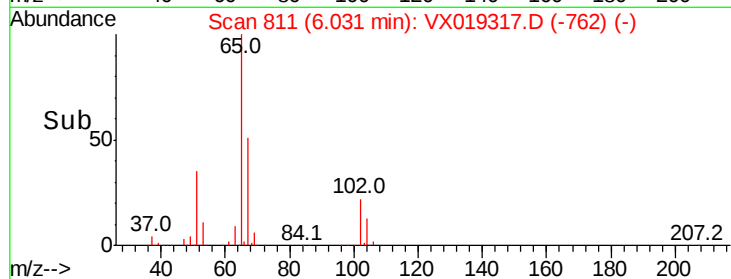
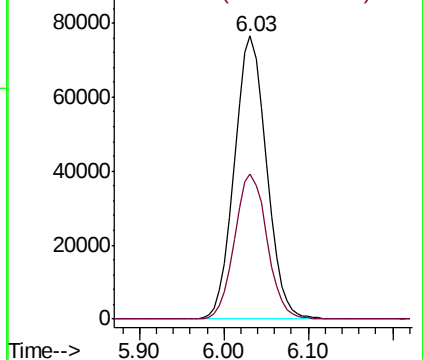
65 100

67 51.6 0.0 103.0



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: VX019317.D

Acq: 05 Nov 2020 16:25

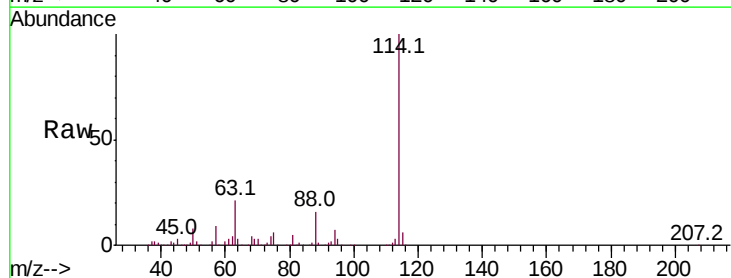
Tgt Ion: 114 Resp: 484741

Ion Ratio Lower Upper

114 100

63 20.9 0.0 38.8

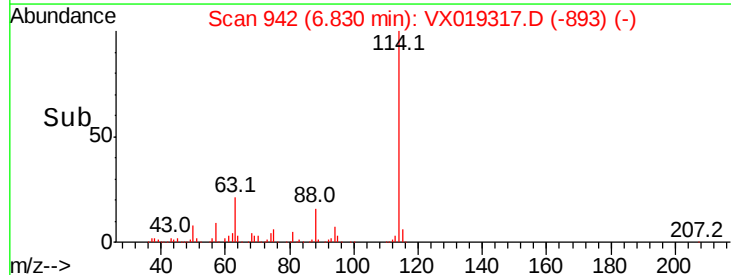
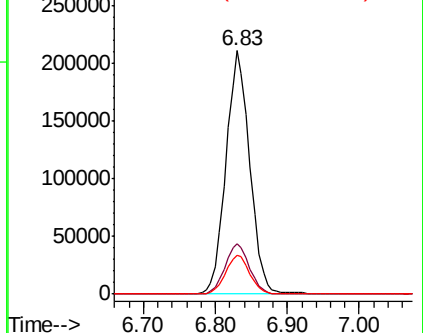
88 16.0 0.0 34.2

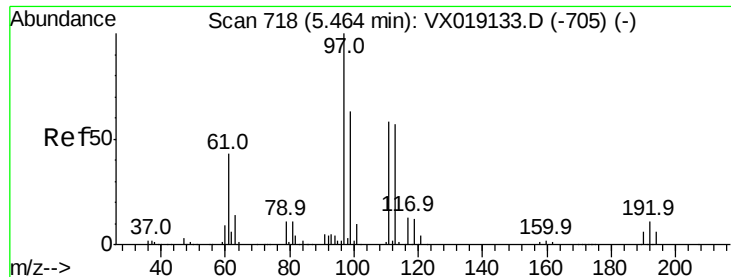


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

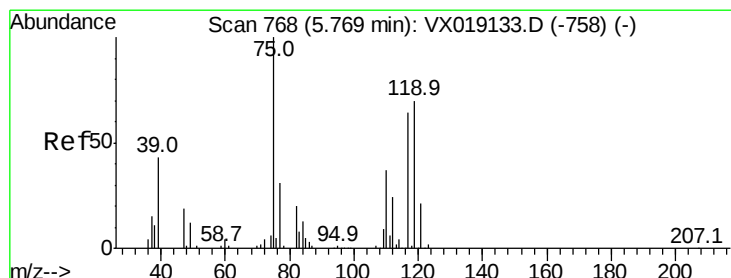
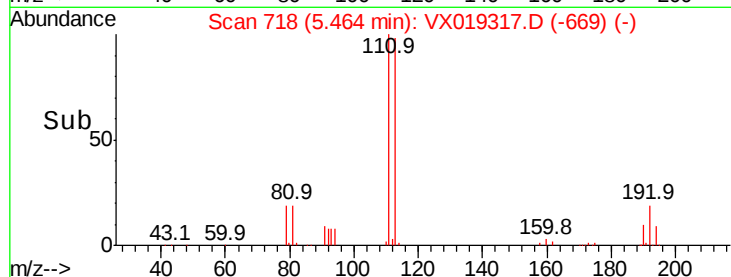
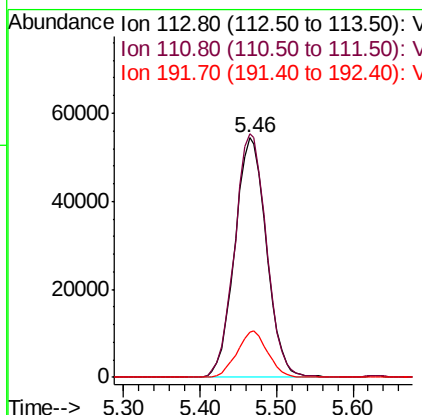
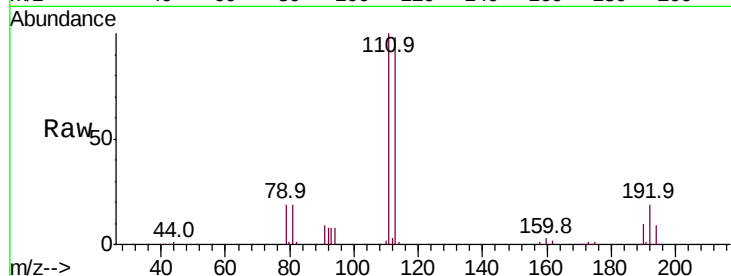




#35
 Dibromofluoromethane
 Concen: 51.354 ug/l
 RT: 5.46 min Scan# 718
 Delta R.T. 0.00 min
 Lab File: VX019317.D
 Acq: 05 Nov 2020 16:25

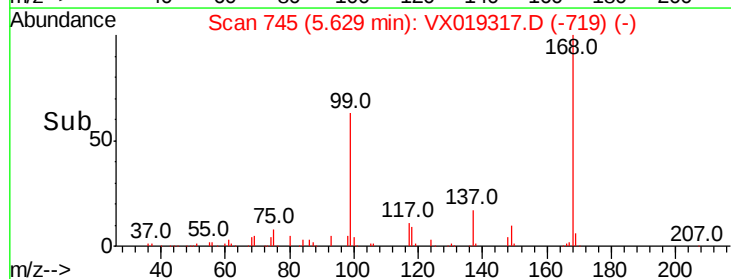
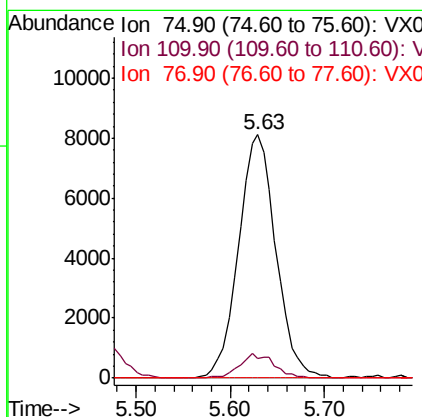
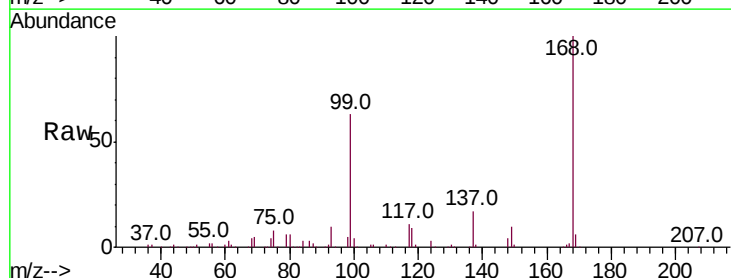
Instrument :
 MSVOA_X
 ClientSampleId :
 PB132824ZHE#07

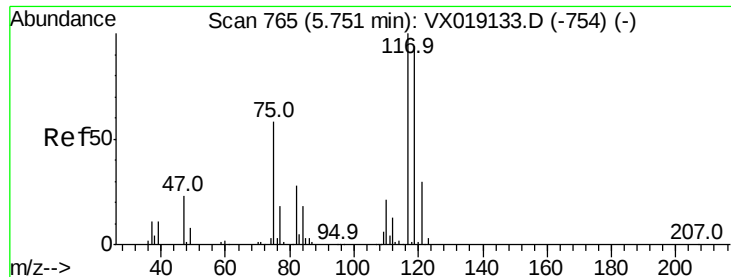
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.0	82.3	123.5
192	18.7	16.2	24.2



#36
 1,1-Dichloropropene
 Concen: 5.017 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.14 min
 Lab File: VX019317.D
 Acq: 05 Nov 2020 16:25

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.2	18.3	54.9#
77	0.0	24.9	37.3#





#38

Carbon Tetrachloride

Concen: 6.388 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.12 min

Lab File: VX019317.D

Acq: 05 Nov 2020 16:25

Instrument :

MSVOA_X

ClientSampleId :

PB132824ZHE#07

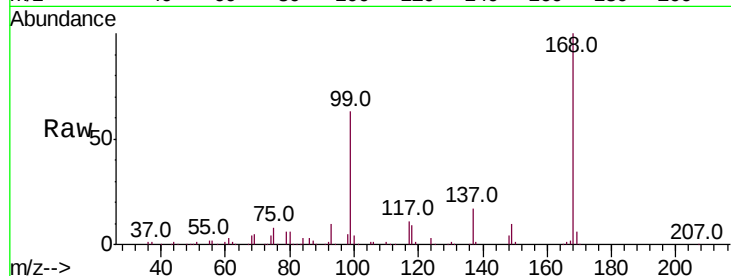
Tot Ion:117 Resp: 29146

Ion Ratio Lower Upper

117 100

119 5.0 75.0 112.6#

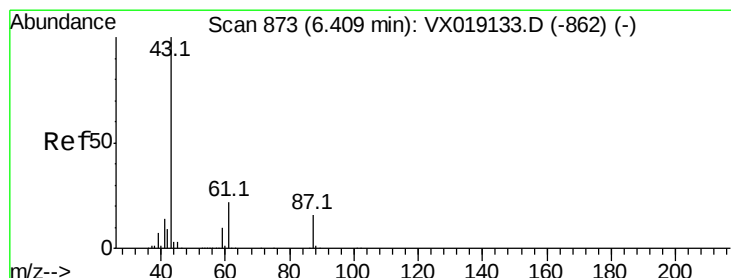
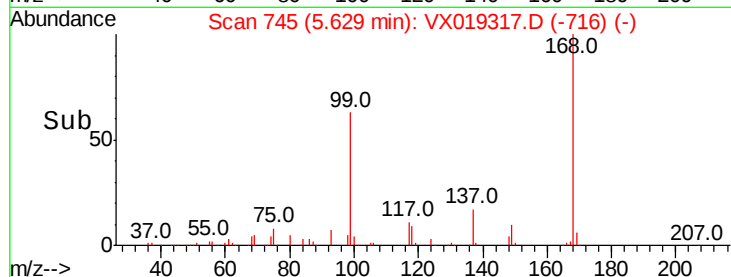
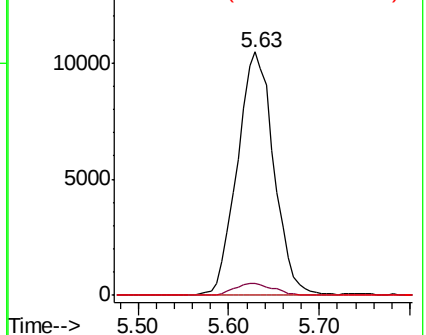
121 0.0 23.9 35.9#



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: 11.129 ug/l

RT: 6.41 min Scan# 873

Delta R.T. 0.00 min

Lab File: VX019317.D

Acq: 05 Nov 2020 16:25

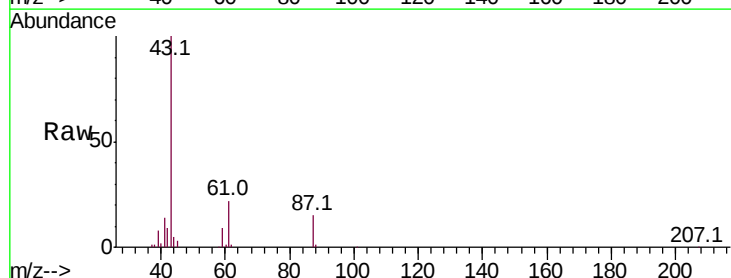
Tgt Ion: 43 Resp: 77447

Ion Ratio Lower Upper

43 100

61 21.6 17.8 26.6

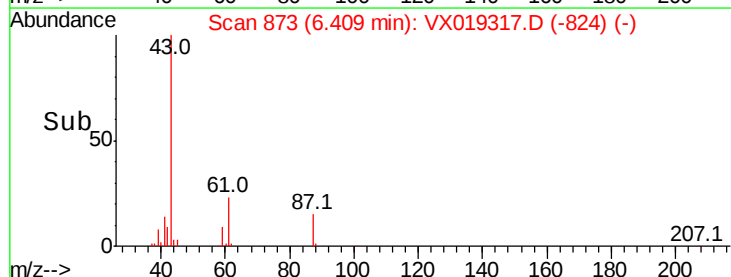
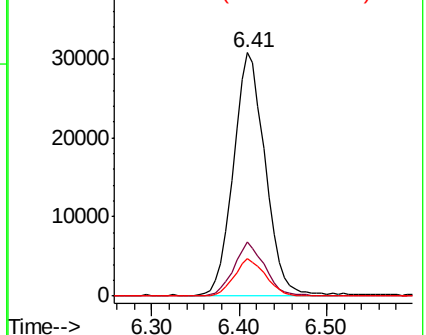
87 14.9 12.6 19.0

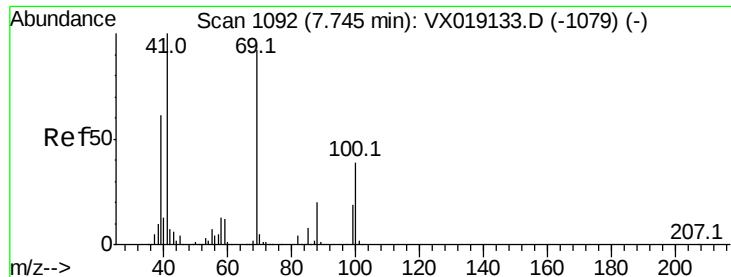


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

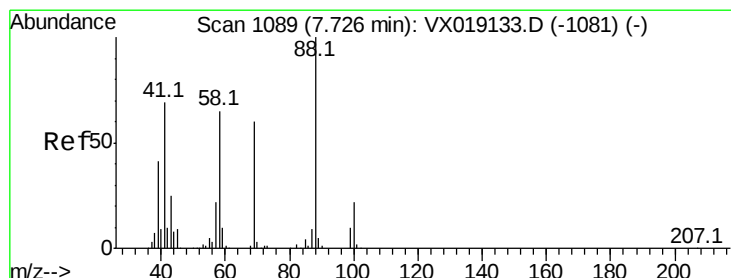
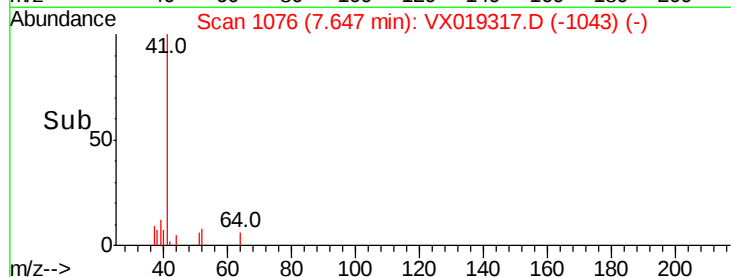
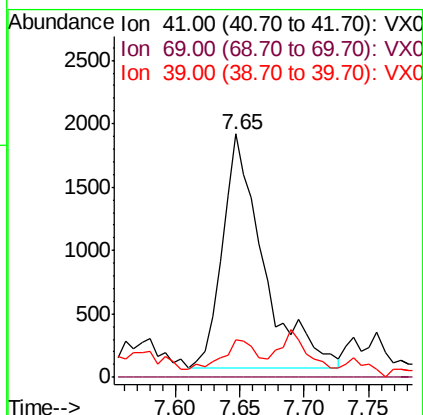
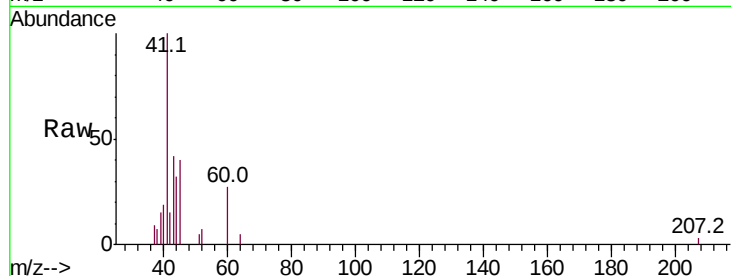




#48
Methvl methacrylate
Concen: 1.222 ug/l
RT: 7.65 min Scan# 1076
Delta R.T. -0.10 min
Lab File: VX019317.D
Acq: 05 Nov 2020 16:25

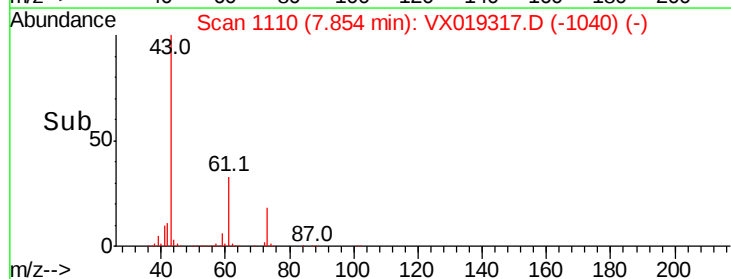
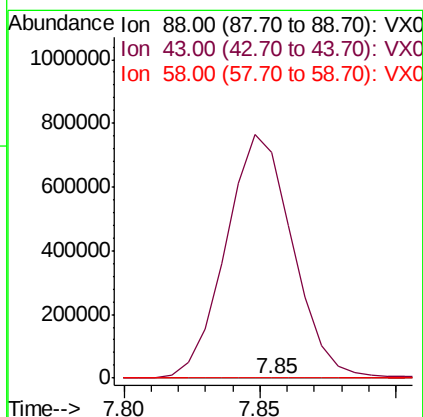
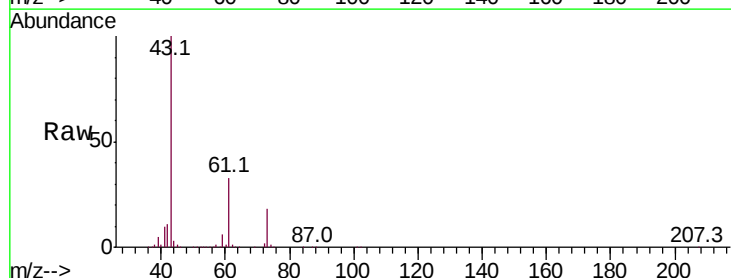
Instrument :
MSVOA_X
ClientSampleId :
PB132824ZHE#07

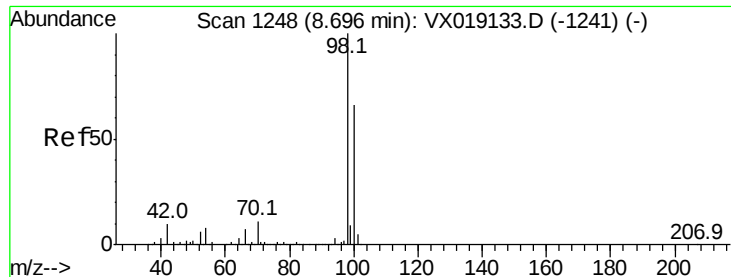
Tot Ion: 41 Resp: 4094
Ion Ratio Lower Upper
41 100
69 0.0 75.5 113.3#
39 0.0 48.9 73.3#



#49
1,4-Dioxane
Concen: 3.195 ug/l
RT: 7.85 min Scan# 1110
Delta R.T. 0.13 min
Lab File: VX019317.D
Acq: 05 Nov 2020 16:25

Tgt Ion: 88 Resp: 238
Ion Ratio Lower Upper
88 100
43 551978.6 23.0 34.6#
58 2530.7 52.2 78.2#





#50

Toluene-d8

Concen: 52.844 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. 0.00 min

Lab File: VX019317.D

Acq: 05 Nov 2020 16:25

Instrument :

MSVOA_X

ClientSampleId :

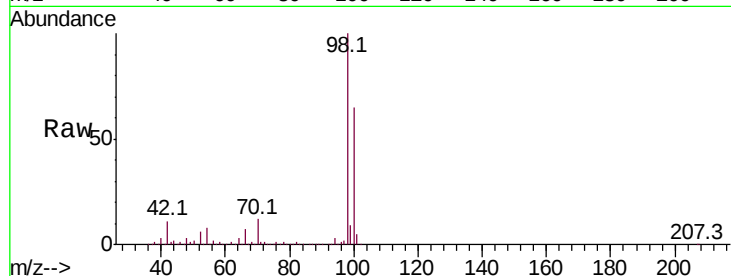
PB132824ZHE#07

Tot Ion: 98 Resp: 606538

Ion Ratio Lower Upper

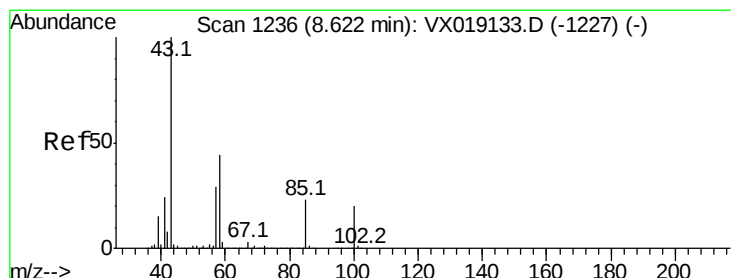
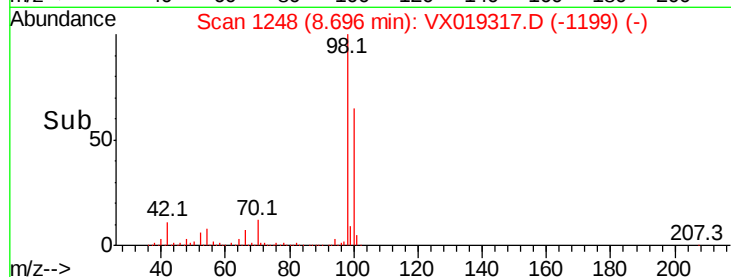
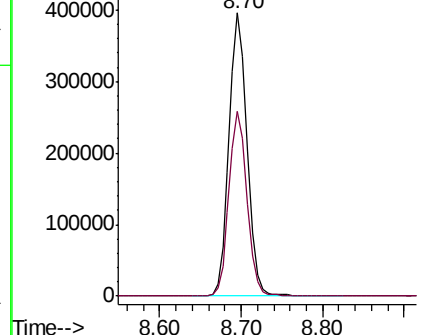
98 100

100 65.3 53.0 79.6



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX



#51

4-Methyl-2-Pentanone

Concen: 19.102 ug/l

RT: 8.59 min Scan# 1231

Delta R.T. -0.03 min

Lab File: VX019317.D

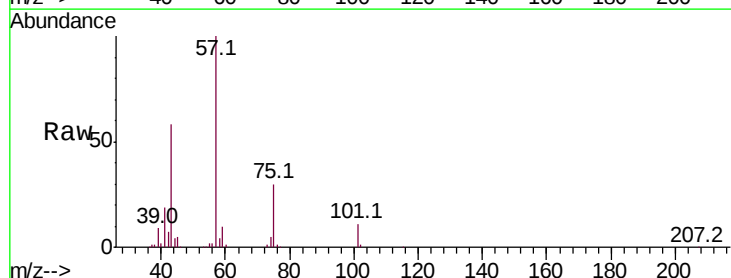
Acq: 05 Nov 2020 16:25

Tgt Ion: 43 Resp: 76401

Ion Ratio Lower Upper

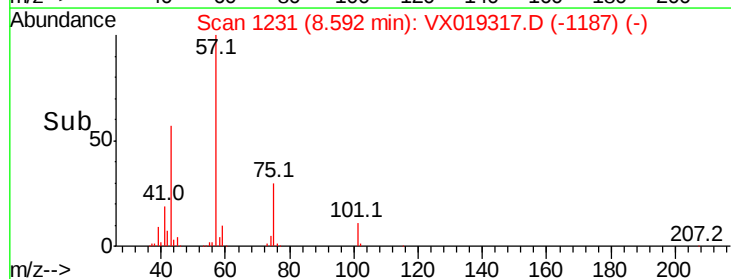
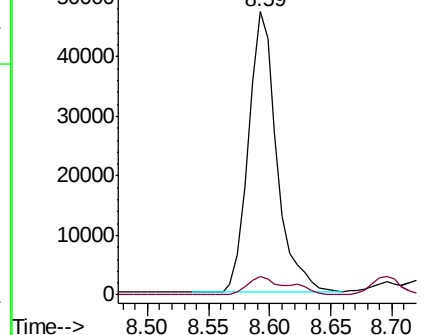
43 100

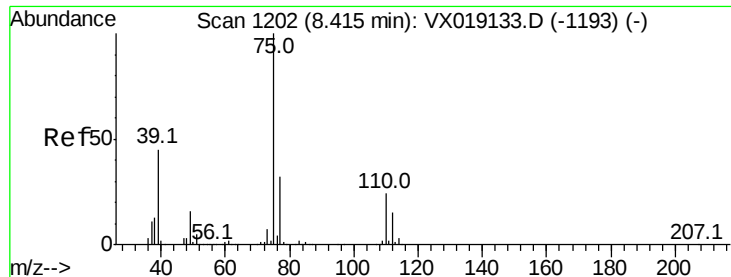
58 9.4 35.0 52.4#



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: 6.866 ug/l

RT: 8.59 min Scan# 1231

Delta R.T. 0.18 min

Lab File: VX019317.D

Acq: 05 Nov 2020 16:25

Instrument :

MSVOA_X

ClientSampleId :

PB132824ZHE#07

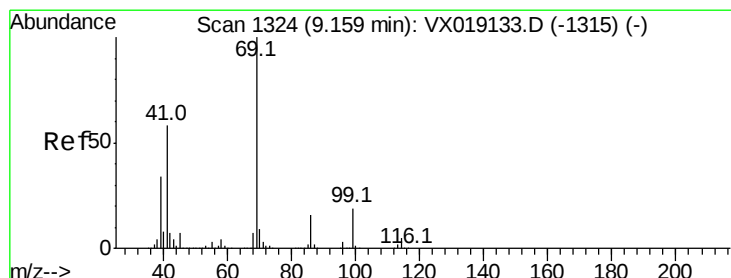
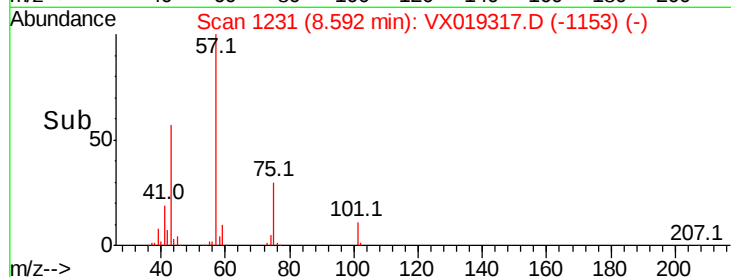
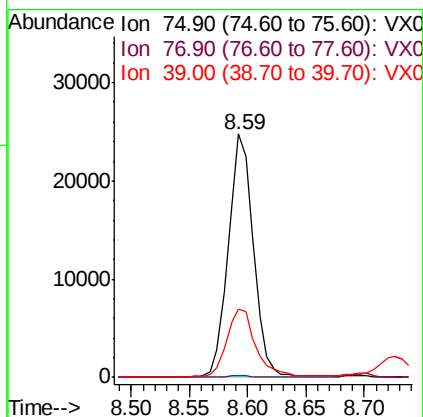
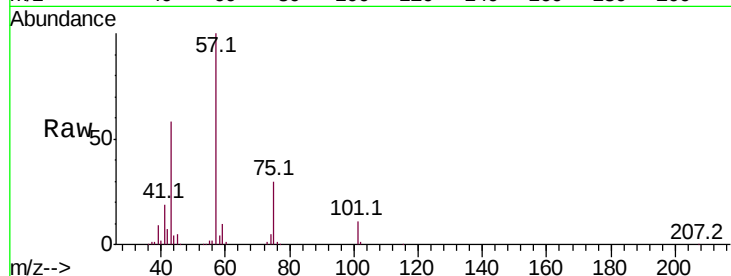
Tot Ion: 75 Resp: 37363

Ion Ratio Lower Upper

75 100

77 0.5 25.5 38.3#

39 28.3 36.2 54.2#



#56

Ethyl methacrylate

Concen: 0.257 ug/l

RT: 9.29 min Scan# 1345

Delta R.T. 0.13 min

Lab File: VX019317.D

Acq: 05 Nov 2020 16:25

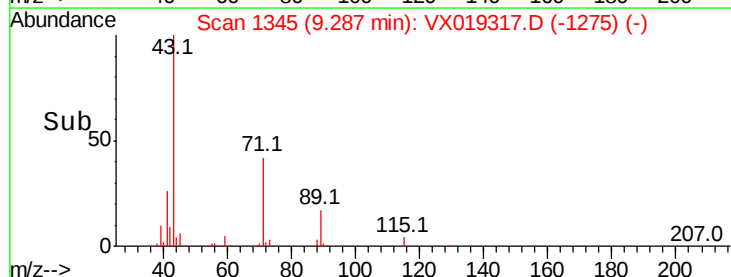
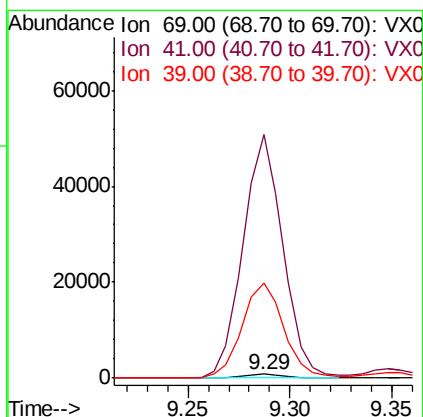
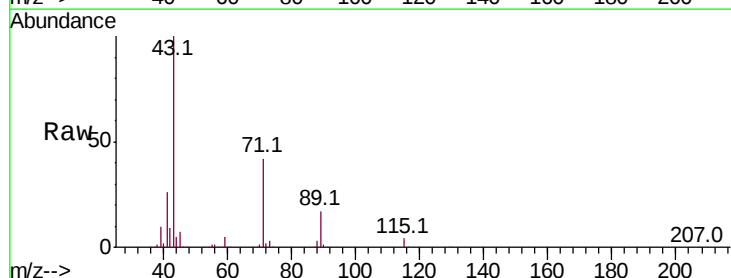
Tgt Ion: 69 Resp: 1256

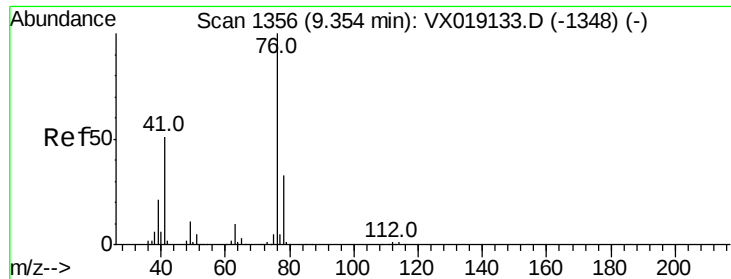
Ion Ratio Lower Upper

69 100

41 5503.7 46.5 69.7#

39 2271.6 27.6 41.4#





#57

1,3-Dichloropropane

Concen: 1.224 ug/l

RT: 9.52 min Scan# 1384

Delta R.T. 0.17 min

Lab File: VX019317.D

Acq: 05 Nov 2020 16:25

Instrument :

MSVOA_X

ClientSampleId :

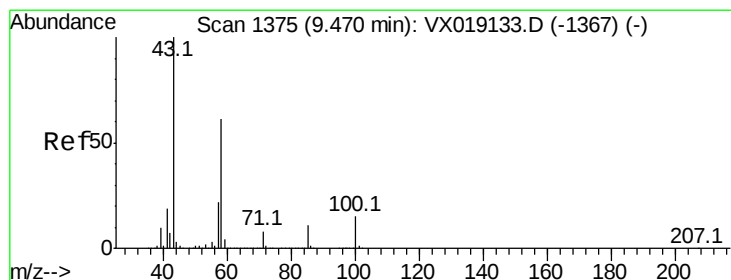
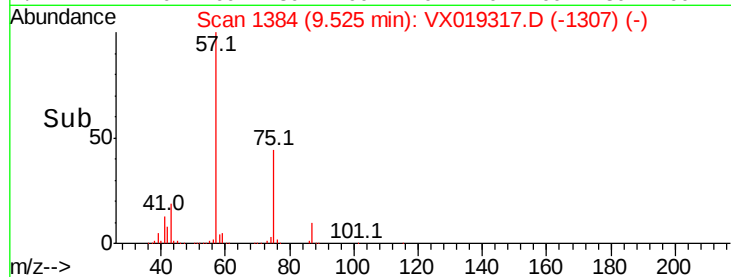
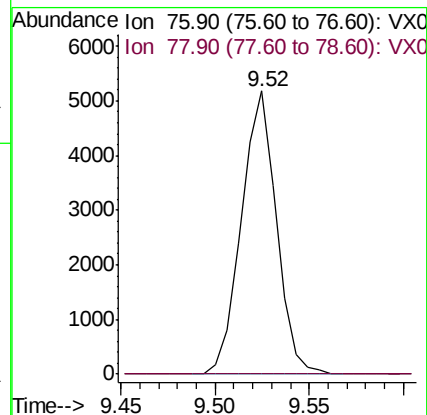
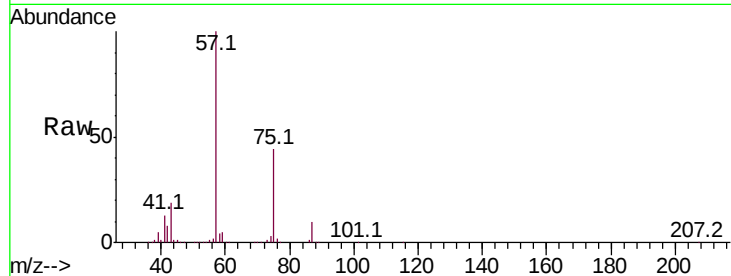
PB132824ZHE#07

Tot Ion: 76 Resp: 6665

Ion Ratio Lower Upper

76 100

78 0.0 25.9 38.9#



#59

2-Hexanone

Concen: 23.785 ug/l

RT: 9.42 min Scan# 1367

Delta R.T. -0.05 min

Lab File: VX019317.D

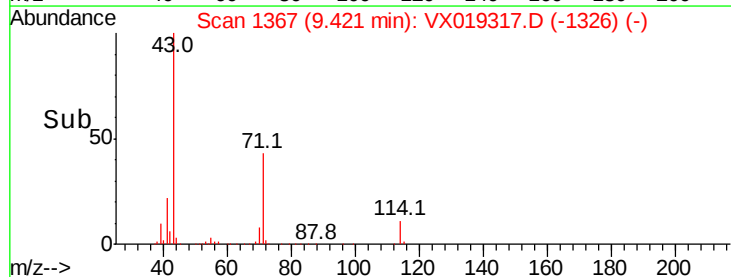
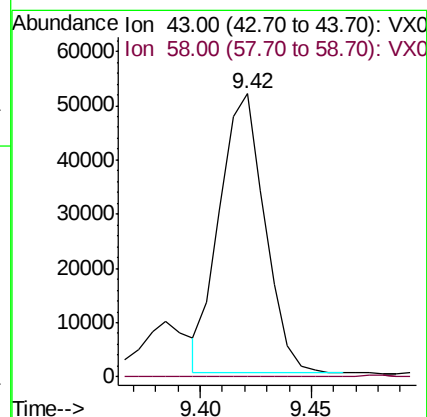
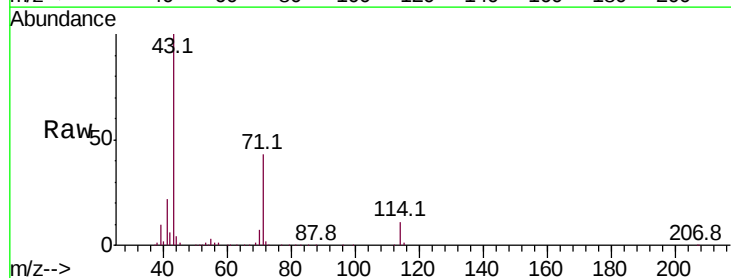
Acq: 05 Nov 2020 16:25

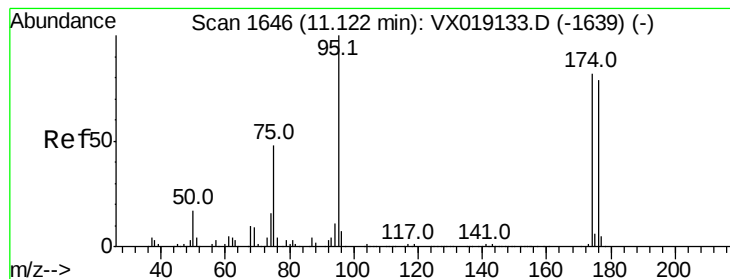
Tgt Ion: 43 Resp: 72416

Ion Ratio Lower Upper

43 100

58 0.0 30.5 91.5#





#62

4-Bromofluorobenzene

Concen: 52.975 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.00 min

Lab File: VX019317.D

Acq: 05 Nov 2020 16:25

Instrument :

MSVOA_X

ClientSampleId :

PB132824ZHE#07

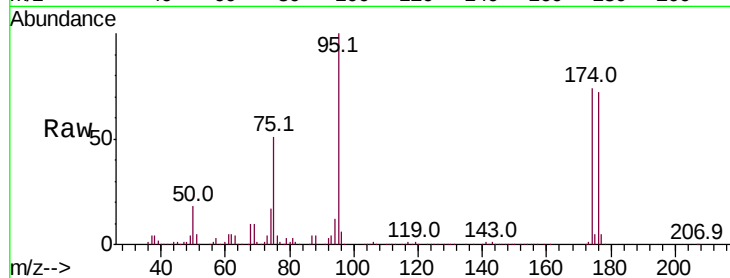
Tot Ion: 95 Resp: 230271

Ion Ratio Lower Upper

95 100

174 73.5 0.0 156.0

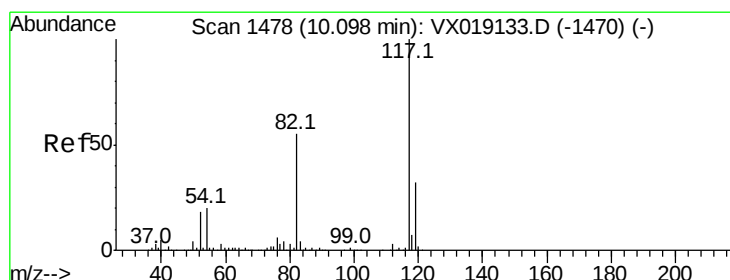
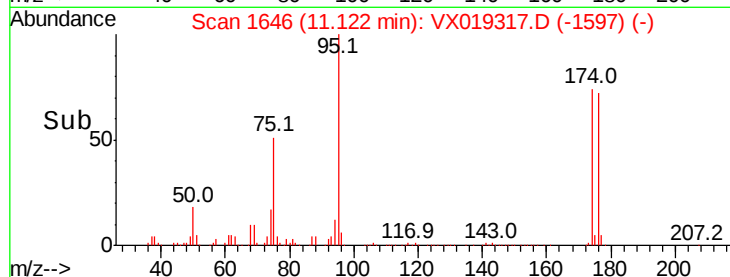
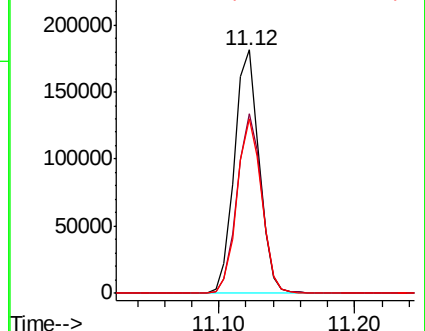
176 71.6 0.0 149.8



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. 0.00 min

Lab File: VX019317.D

Acq: 05 Nov 2020 16:25

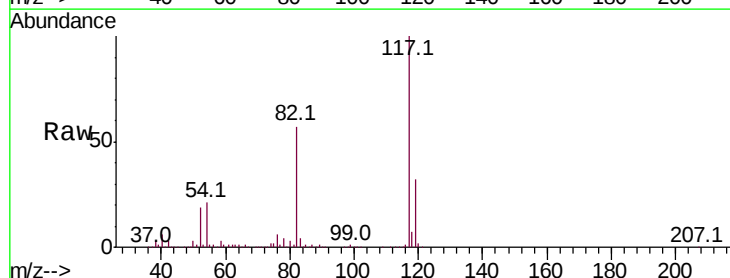
Tgt Ion: 117 Resp: 467950

Ion Ratio Lower Upper

117 100

82 56.9 43.6 65.4

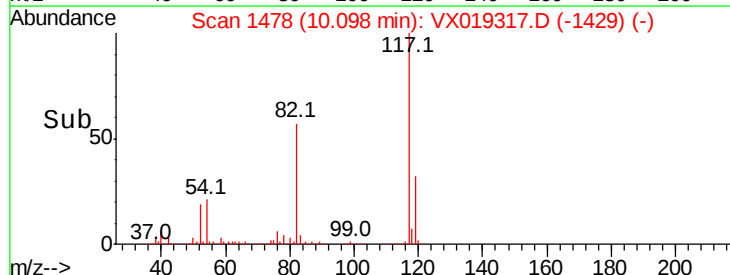
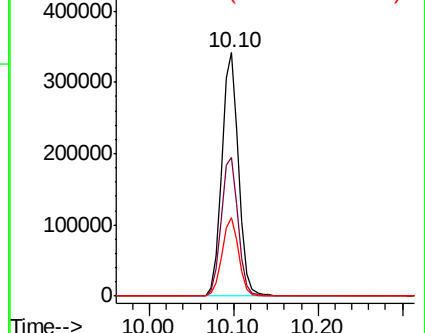
119 32.3 25.5 38.3

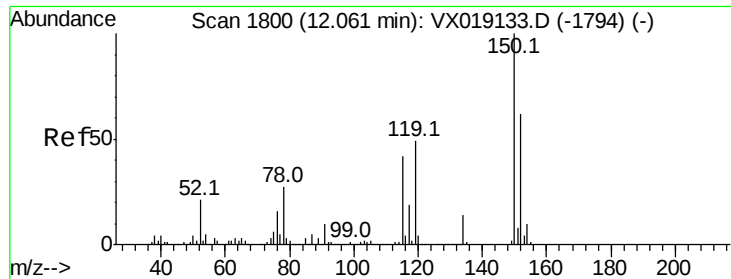


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. 0.00 min

Lab File: VX019317.D

Acq: 05 Nov 2020 16:25

Instrument :

MSVOA_X

ClientSampleId :

PB132824ZHE#07

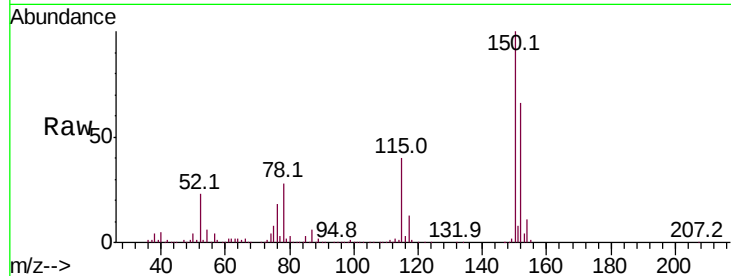
Tot Ion:152 Resp: 228513

Ion Ratio Lower Upper

152 100

115 61.6 41.9 125.7

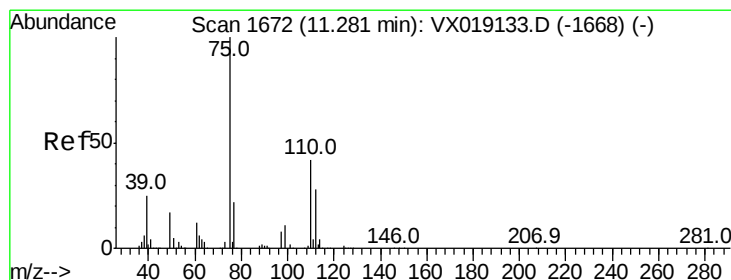
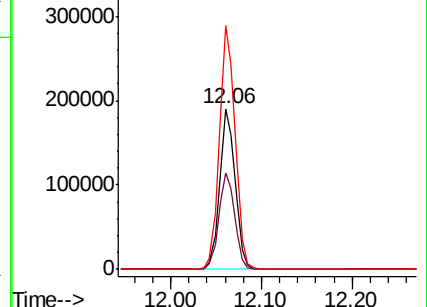
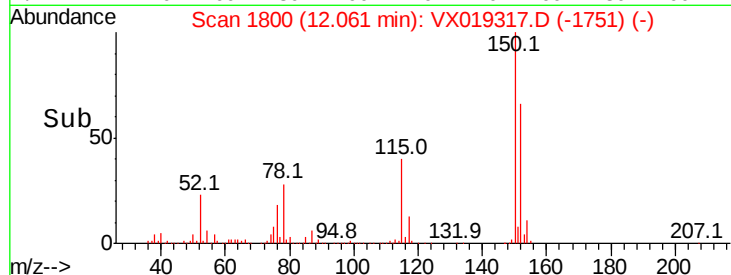
150 155.3 0.0 347.8



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 24.928 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX019317.D

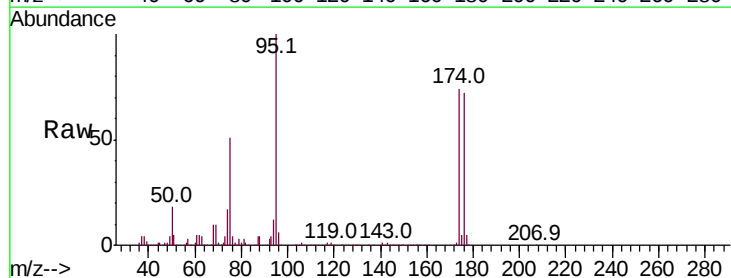
Acq: 05 Nov 2020 16:25

Tgt Ion: 75 Resp: 117620

Ion Ratio Lower Upper

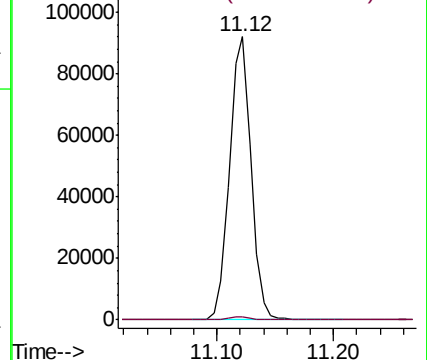
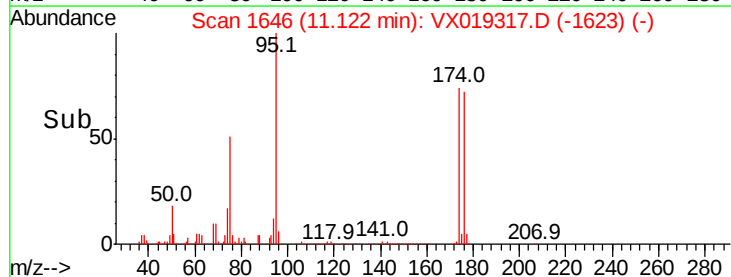
75 100

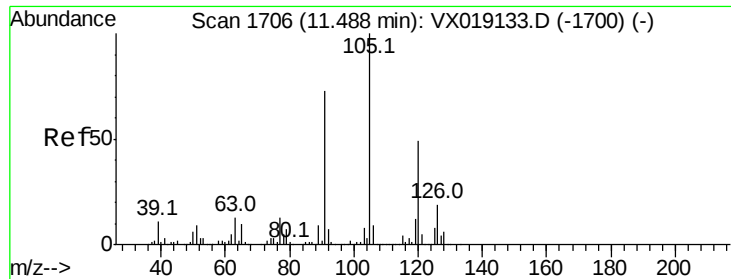
77 1.1 20.3 60.9#



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: 0.775 ug/l

RT: 11.49 min Scan# 1706

Delta R.T. 0.00 min

Lab File: VX019317.D

Acq: 05 Nov 2020 16:25

Instrument :

MSVOA_X

ClientSampleId :

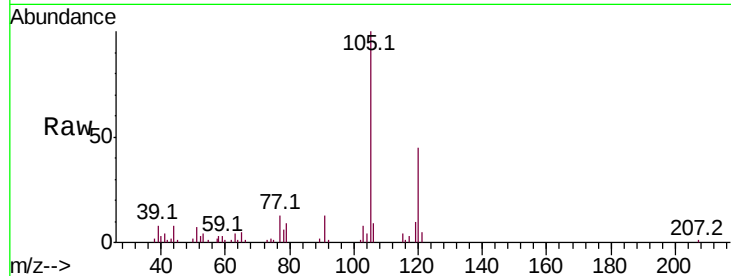
PB132824ZHE#07

Tot Ion:105 Resp: 10587

Ion Ratio Lower Upper

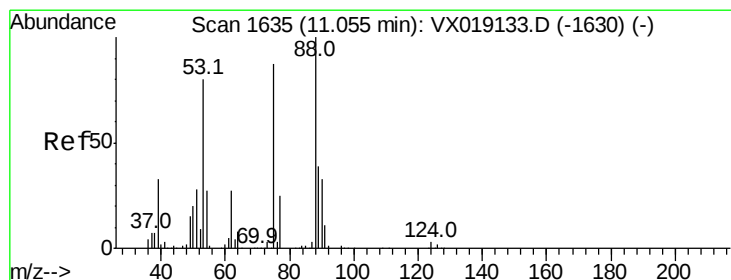
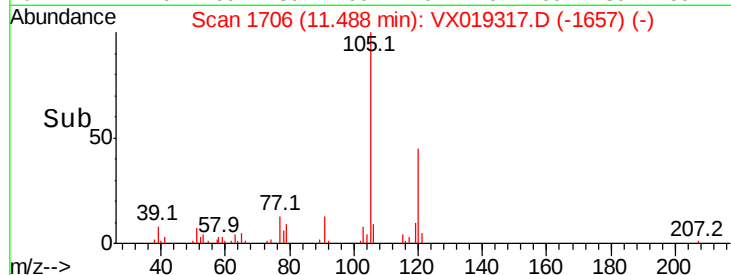
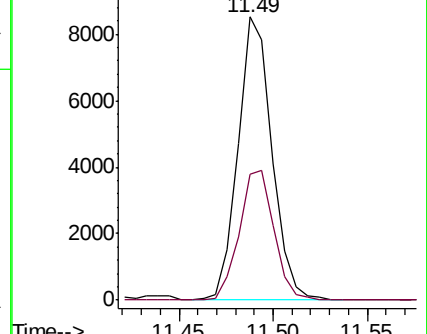
105 100

120 47.0 24.3 72.8



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: 65.636 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX019317.D

Acq: 05 Nov 2020 16:25

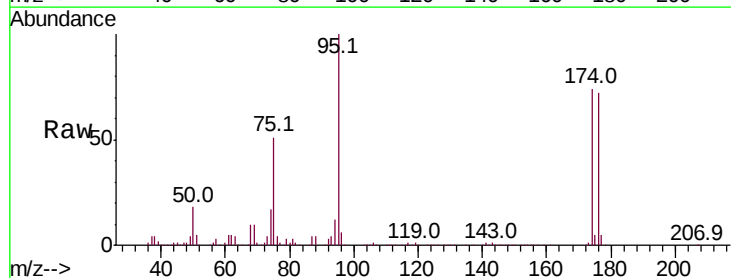
Tgt Ion: 75 Resp: 117620

Ion Ratio Lower Upper

75 100

53 0.0 73.3 109.9#

89 0.0 38.2 57.2#



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

