

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX110620\
 Data File : VX019297.D
 Acq On : 05 Nov 2020 02:02
 Operator : JC/MD
 Sample : L4622-12
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PAV-B7-110220-DP

Quant Time: Nov 05 02:42:15 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	5.63	168	289685	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	517518	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	499151	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	243494	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	207789	55.62	ug/l	0.00
Spiked Amount			Recovery	=	111.24%	
35) Dibromofluoromethane	5.46	113	166305	51.16	ug/l	0.00
Spiked Amount			Recovery	=	102.32%	
50) Toluene-d8	8.70	98	652410	53.24	ug/l	0.00
Spiked Amount			Recovery	=	106.48%	
62) 4-Bromofluorobenzene	11.12	95	244283	52.64	ug/l	0.00
Spiked Amount			Recovery	=	105.28%	

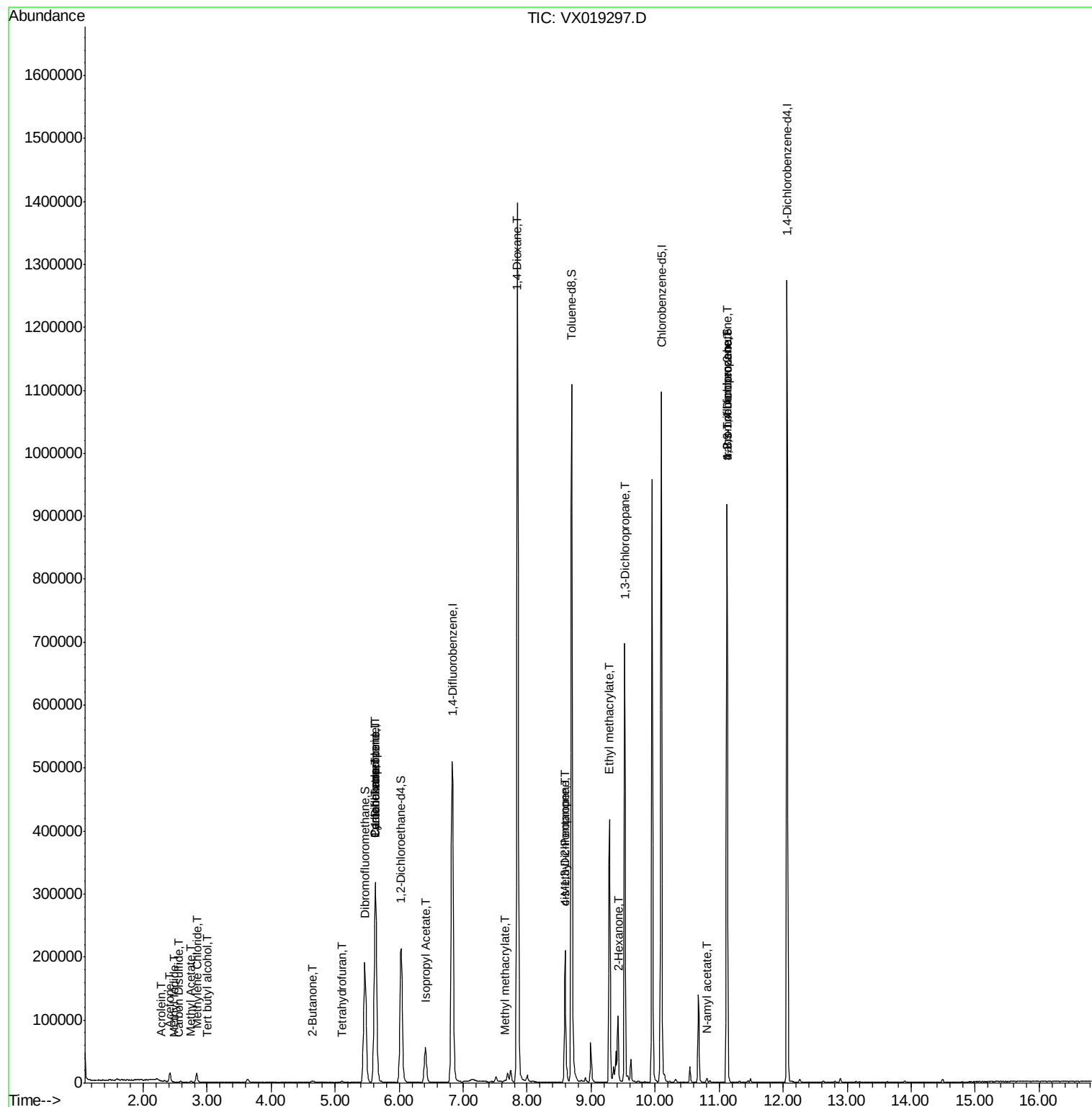
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Methyl Iodide	2.49	142	58	6.394	ug/l #	39
11) Tert butyl alcohol	2.99	59	887	1.202	ug/l #	72
13) Acrolein	2.28	56	26	5.725	ug/l #	16
16) Acetone	2.42	43	15891	12.330	ug/l	97
17) Carbon Disulfide	2.56	76	386	0.807	ug/l #	75
18) Methyl Acetate	2.75	43	2974	0.949	ug/l	97
20) Methylene Chloride	2.84	84	6369	1.968	ug/l	97
25) 2-Butanone	4.65	43	2656	1.308	ug/l	93
29) Tetrahydrofuran	5.10	42	1758	1.373	ug/l	90
31) Cyclohexane	5.62	56	6353	1.345	ug/l #	1
36) 1,1-Dichloropropene	5.63	75	23805	4.981	ug/l #	49
38) Carbon Tetrachloride	5.63	117	31198	6.405	ug/l #	17
43) Isopropyl Acetate	6.41	43	73003	9.826	ug/l	98
48) Methyl methacrylate	7.65	41	3944	1.103	ug/l #	9
49) 1,4-Dioxane	7.85	88	249	3.131	ug/l #	1
51) 4-Methyl-2-Pentanone	8.59	43	71579	16.763	ug/l #	48
54) cis-1,3-Dichloropropene	8.59	75	34420	5.924	ug/l #	61
56) Ethyl methacrylate	9.29	69	1128	0.217	ug/l #	1
57) 1,3-Dichloropropane	9.52	76	6030	1.037	ug/l #	42
59) 2-Hexanone	9.42	43	67056	20.630	ug/l #	20
74) N-amyl acetate	10.80	43	2931	0.465	ug/l #	44
76) 1,2,3-Trichloropropane	11.12	75	125619	24.986	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.12	75	125619	65.787	ug/l #	12

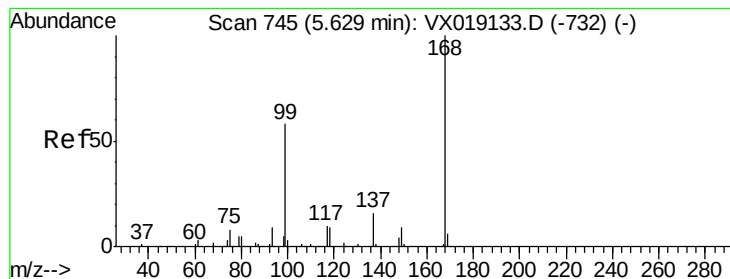
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: 5.63 min Scan# 745

Delta R.T. -0.00 min

Lab File: VX019297.D

Acq: 05 Nov 2020 02:02

Instrument :

MSVOA_X

ClientSampleId :

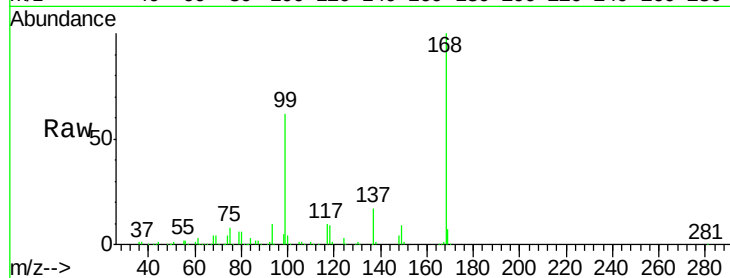
PAV-B7-110220-DP

Tot Ion:168 Resp: 289685

Ion Ratio Lower Upper

168 100

99 62.4 46.6 69.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

120000

100000

80000

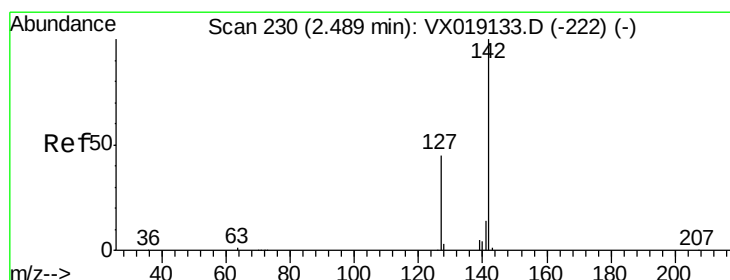
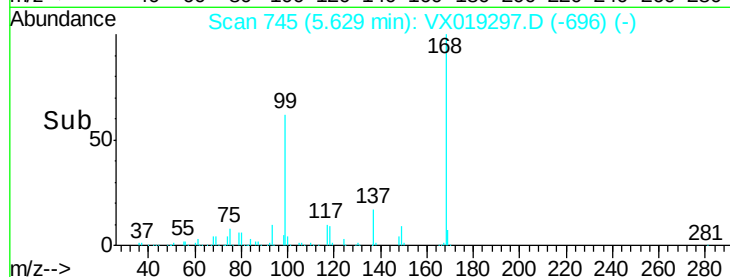
60000

40000

20000

0

Time-->



#10

Methyl Iodide

Concen: 6.394 ug/l

RT: 2.49 min Scan# 230

Delta R.T. 0.00 min

Lab File: VX019297.D

Acq: 05 Nov 2020 02:02

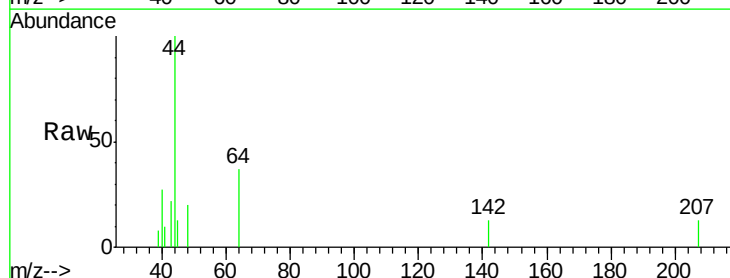
Tgt Ion:142 Resp: 58

Ion Ratio Lower Upper

142 100

127 0.0 36.1 54.1#

141 0.0 11.3 16.9#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

2.49

120

100

80

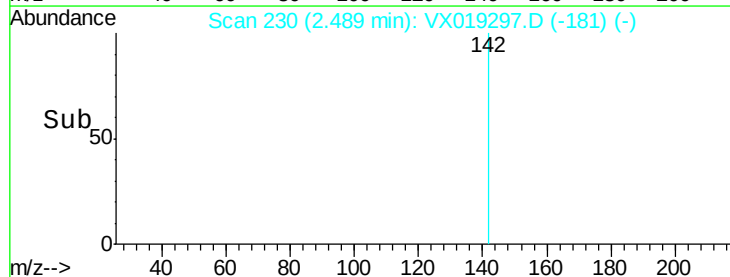
60

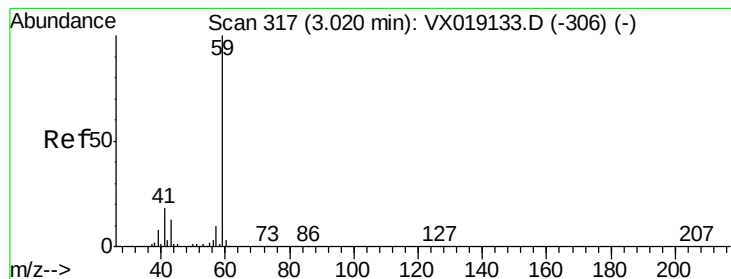
40

20

0

Time-->





#11

Tert butyl alcohol

Concen: 1.202 ug/l

RT: 2.99 min Scan# 312

Delta R.T. -0.03 min

Lab File: VX019297.D

Acq: 05 Nov 2020 02:02

Instrument :

MSVOA_X

ClientSampleId :

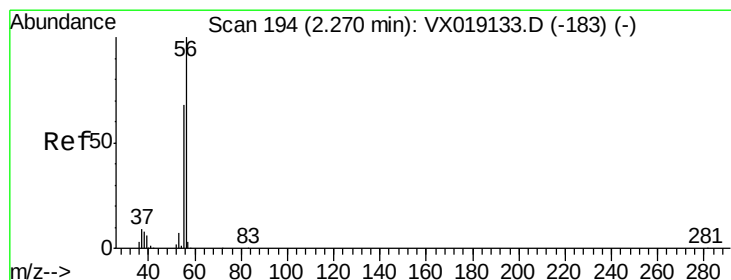
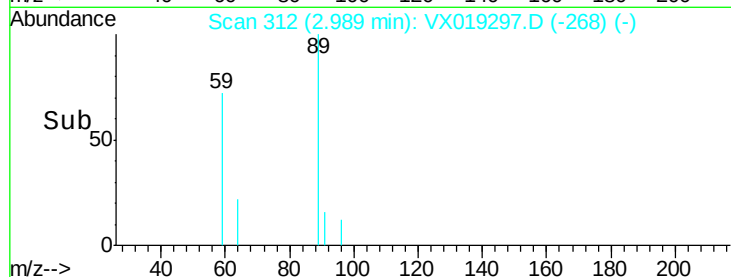
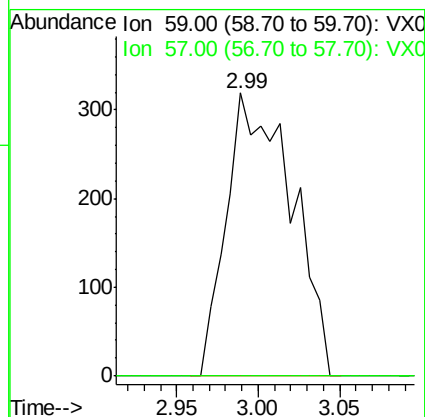
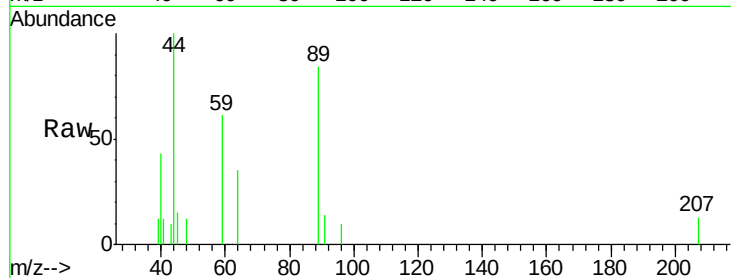
PAV-B7-110220-DP

Tot Ion: 59 Resp: 887

Ion Ratio Lower Upper

59 100

57 0.0 8.4 12.6#



#13

Acrolein

Concen: 5.725 ug/l

RT: 2.28 min Scan# 195

Delta R.T. 0.01 min

Lab File: VX019297.D

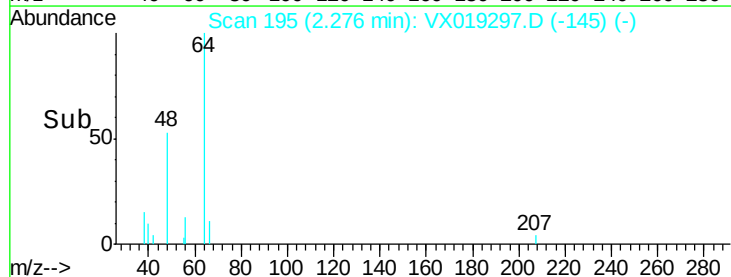
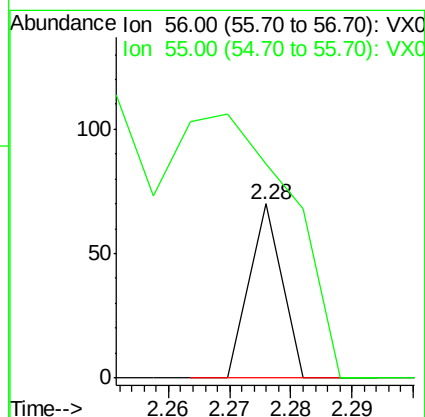
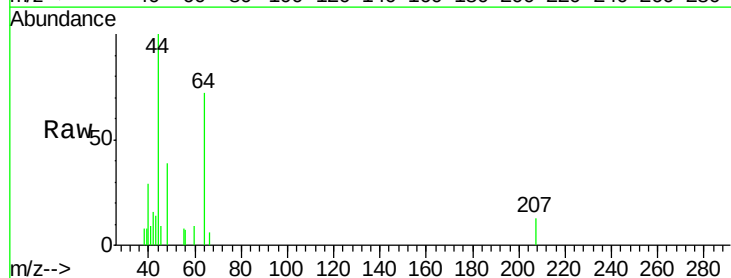
Acq: 05 Nov 2020 02:02

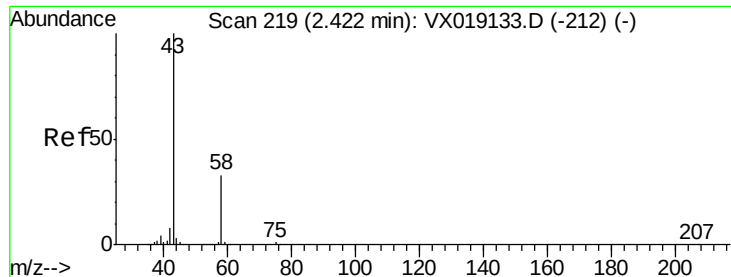
Tgt Ion: 56 Resp: 26

Ion Ratio Lower Upper

56 100

55 0.0 54.7 82.1#





#16

Acetone

Concen: 12.330 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.01 min

Lab File: VX019297.D

Acq: 05 Nov 2020 02:02

Instrument :

MSVOA_X

ClientSampleId :

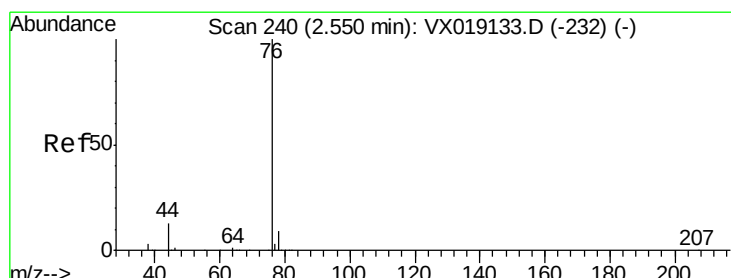
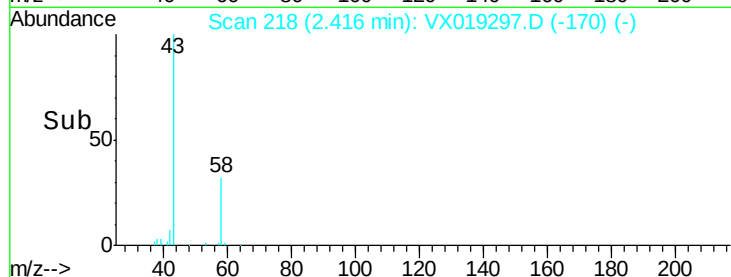
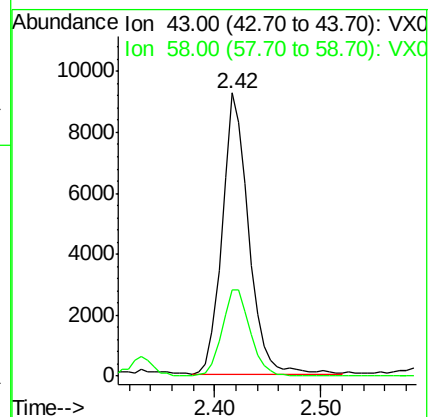
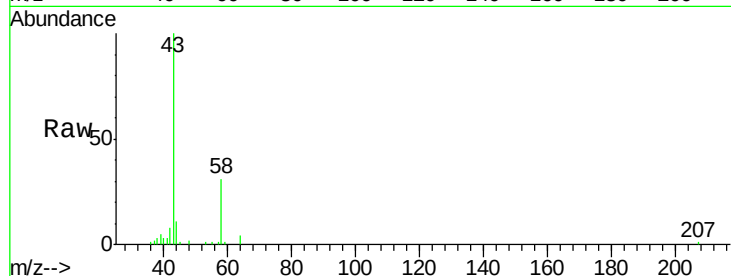
PAV-B7-110220-DP

Tot Ion: 43 Resp: 15891

Ion Ratio Lower Upper

43 100

58 30.9 26.3 39.5



#17

Carbon Disulfide

Concen: 0.807 ug/l

RT: 2.56 min Scan# 241

Delta R.T. 0.01 min

Lab File: VX019297.D

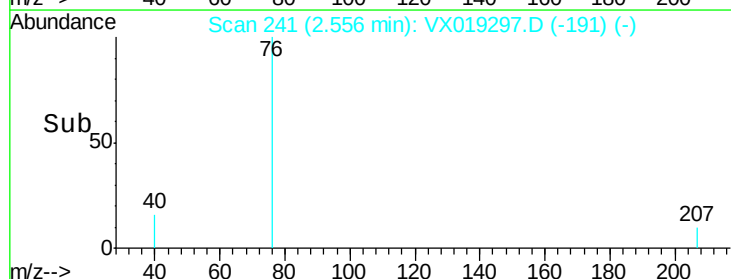
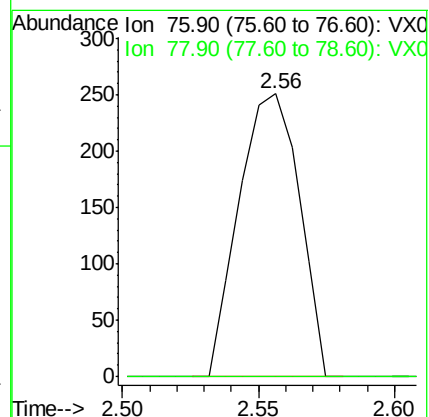
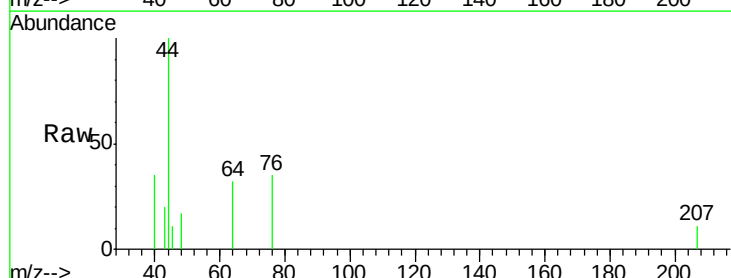
Acq: 05 Nov 2020 02:02

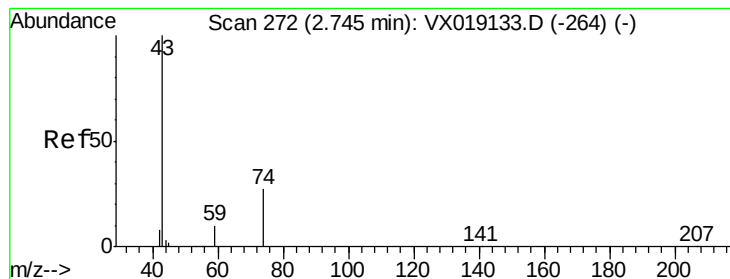
Tgt Ion: 76 Resp: 386

Ion Ratio Lower Upper

76 100

78 0.0 7.3 10.9#





#18

Methvl Acetate

Concen: 0.949 ug/l

RT: 2.75 min Scan# 272

Delta R.T. -0.00 min

Lab File: VX019297.D

Acq: 05 Nov 2020 02:02

Instrument :

MSVOA_X

ClientSampleId :

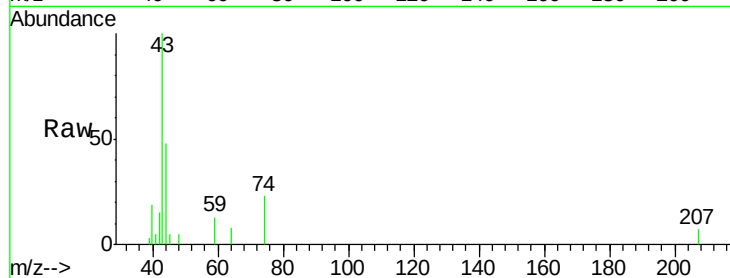
PAV-B7-110220-DP

Tot Ion: 43 Resp: 2974

Ion Ratio Lower Upper

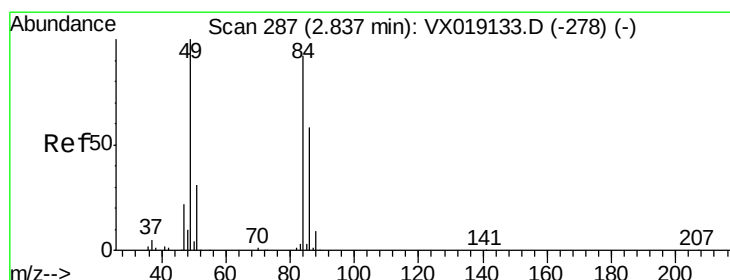
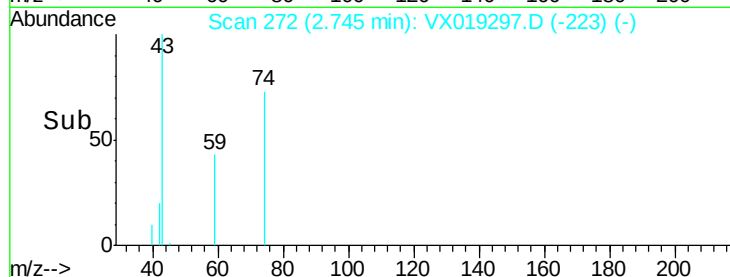
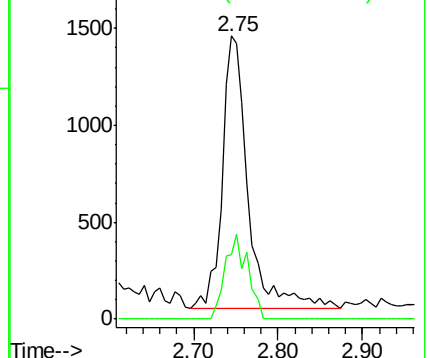
43 100

74 26.7 22.6 33.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0



#20

Methylene Chloride

Concen: 1.968 ug/l

RT: 2.84 min Scan# 287

Delta R.T. -0.00 min

Lab File: VX019297.D

Acq: 05 Nov 2020 02:02

Tgt Ion: 84 Resp: 6369

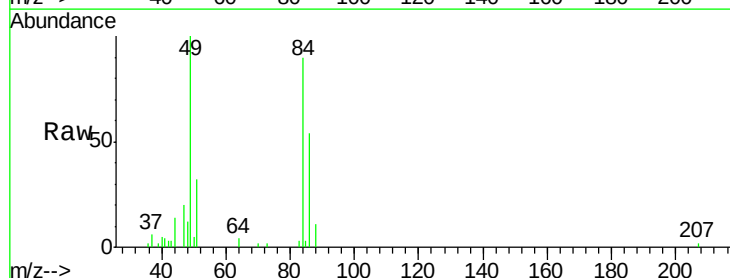
Ion Ratio Lower Upper

84 100

49 111.2 86.8 130.2

51 35.7 27.3 40.9

86 60.0 50.6 76.0

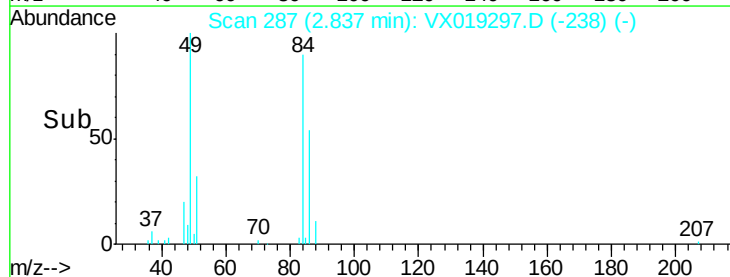
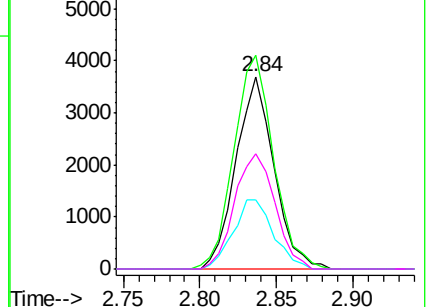


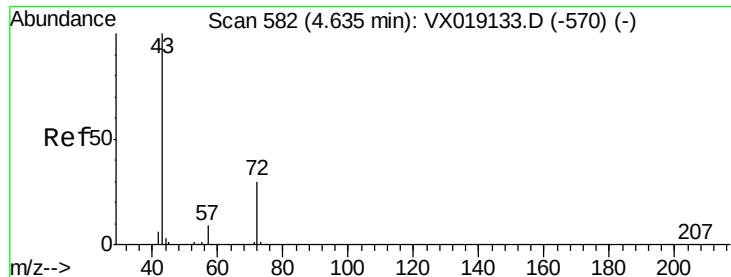
Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0





#25

2-Butanone

Concen: 1.308 ug/l

RT: 4.65 min Scan# 584

Delta R.T. 0.01 min

Lab File: VX019297.D

Acq: 05 Nov 2020 02:02

Instrument :

MSVOA_X

ClientSampleId :

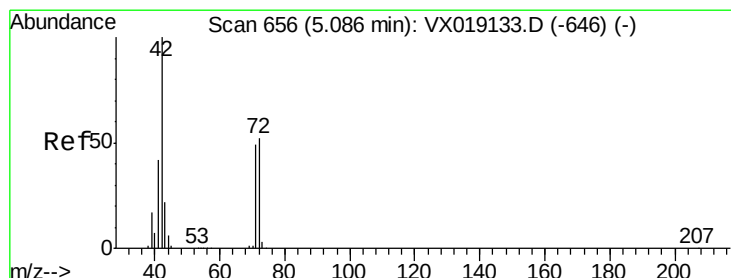
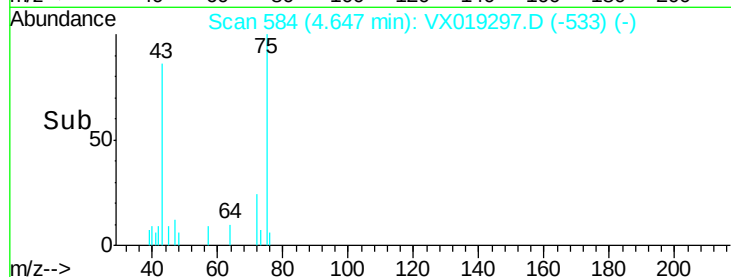
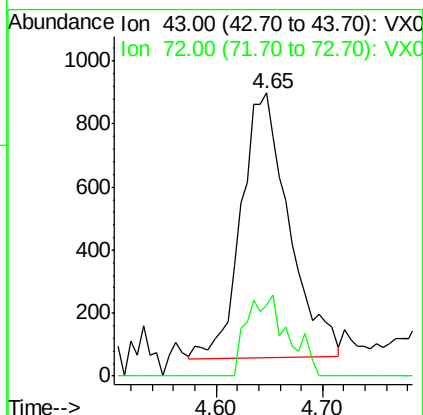
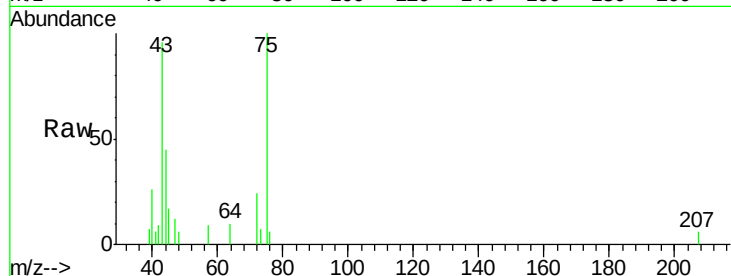
PAV-B7-110220-DP

Tot Ion: 43 Resp: 2656

Ion Ratio Lower Upper

43 100

72 26.9 24.6 36.8



#29

Tetrahydrofuran

Concen: 1.373 ug/l

RT: 5.10 min Scan# 658

Delta R.T. 0.01 min

Lab File: VX019297.D

Acq: 05 Nov 2020 02:02

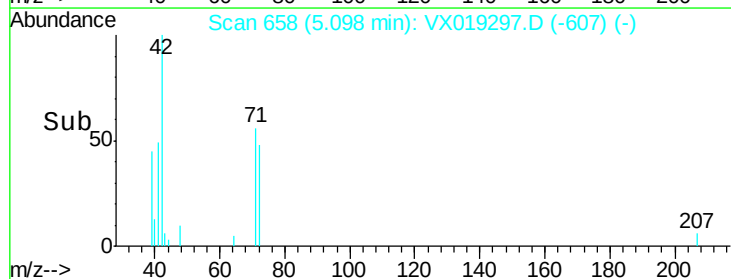
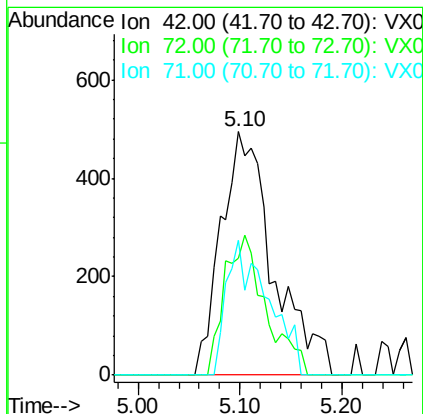
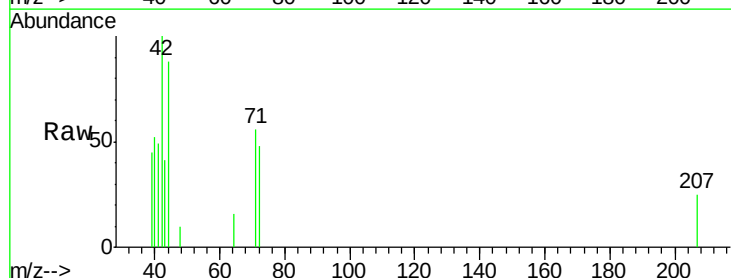
Tgt Ion: 42 Resp: 1758

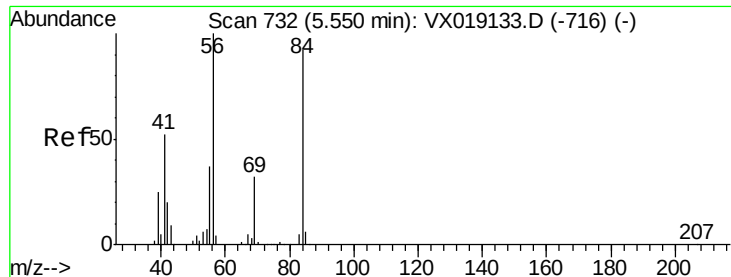
Ion Ratio Lower Upper

42 100

72 45.2 42.6 63.8

71 43.9 39.7 59.5





#31

Cyclohexane

Concen: 1.345 ug/l

RT: 5.62 min Scan# 744

Delta R.T. 0.07 min

Lab File: VX019297.D

Acq: 05 Nov 2020 02:02

Instrument :

MSVOA_X

ClientSampleId :

PAV-B7-110220-DP

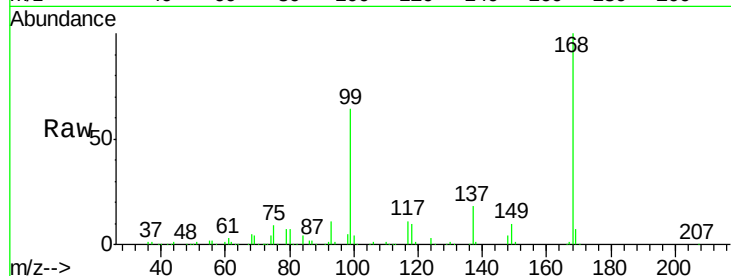
Tot Ion: 56 Resp: 6353

Ion Ratio Lower Upper

56 100

69 196.7 25.9 38.9#

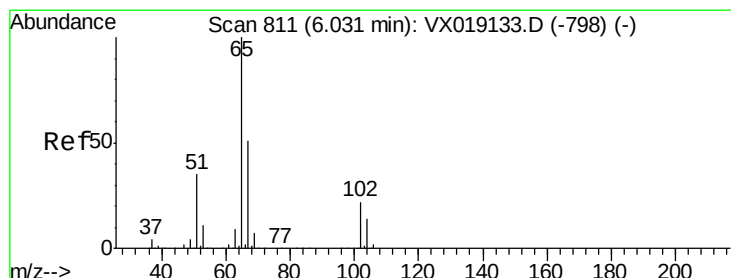
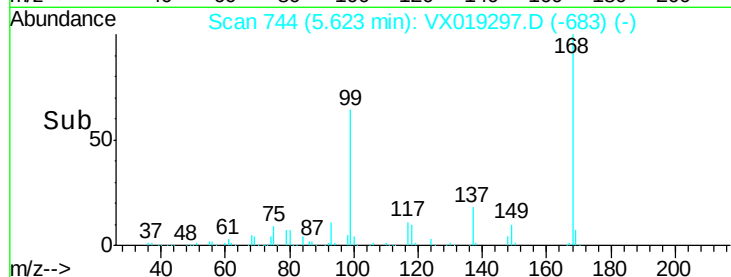
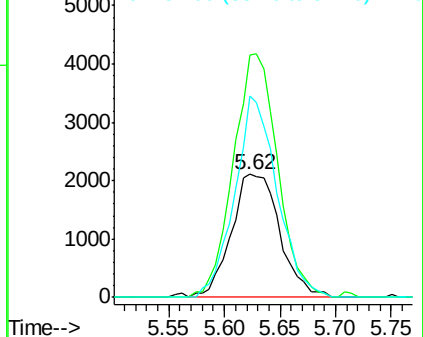
84 163.6 73.4 110.2#



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: 55.620 ug/l

RT: 6.03 min Scan# 811

Delta R.T. -0.00 min

Lab File: VX019297.D

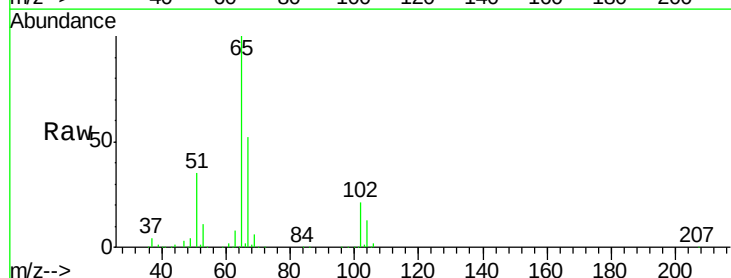
Acq: 05 Nov 2020 02:02

Tgt Ion: 65 Resp: 207789

Ion Ratio Lower Upper

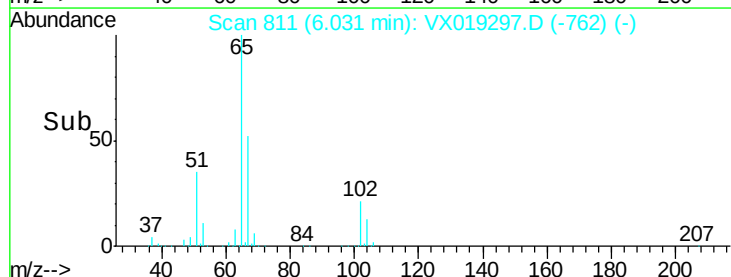
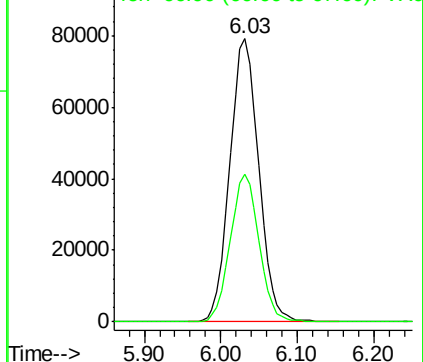
65 100

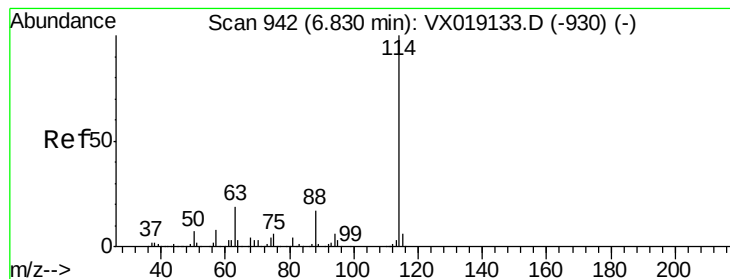
67 51.8 0.0 103.0



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: VX019297.D

Acq: 05 Nov 2020 02:02

Instrument :

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ClientSampleId :

PAV-B7-110220-DP

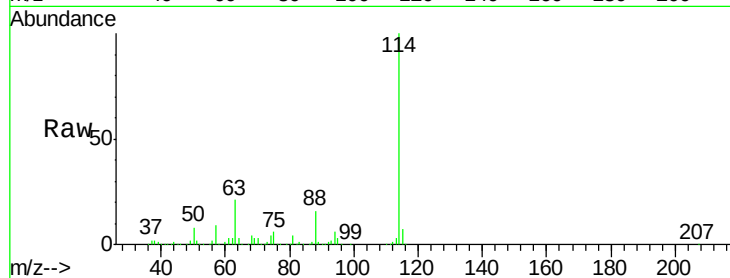
Tot Ion:114 Resp: 517518

Ion Ratio Lower Upper

114 100

63 21.1 0.0 38.8

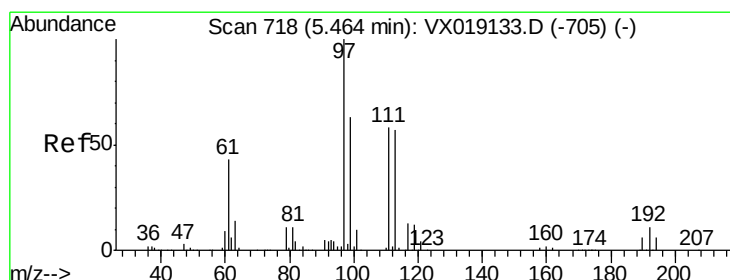
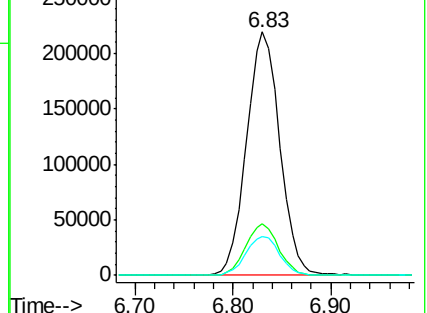
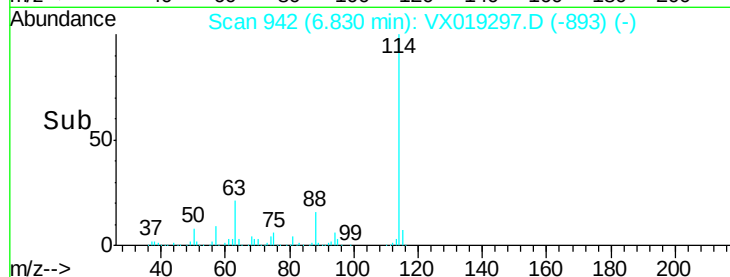
88 15.9 0.0 34.2



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: 51.159 ug/l

RT: 5.46 min Scan# 718

Delta R.T. -0.00 min

Lab File: VX019297.D

Acq: 05 Nov 2020 02:02

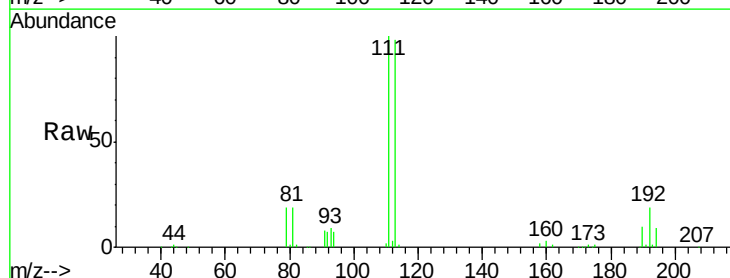
Tgt Ion:113 Resp: 166305

Ion Ratio Lower Upper

113 100

111 102.6 82.3 123.5

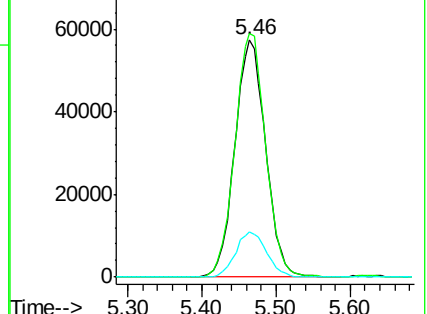
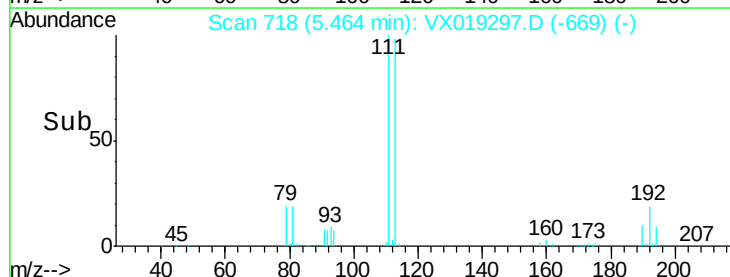
192 19.3 16.2 24.2

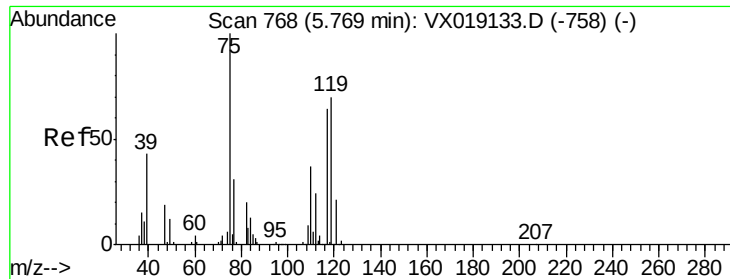


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.981 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.14 min

Lab File: VX019297.D

Acq: 05 Nov 2020 02:02

Instrument :

MSVOA_X

ClientSampleId :

PAV-B7-110220-DP

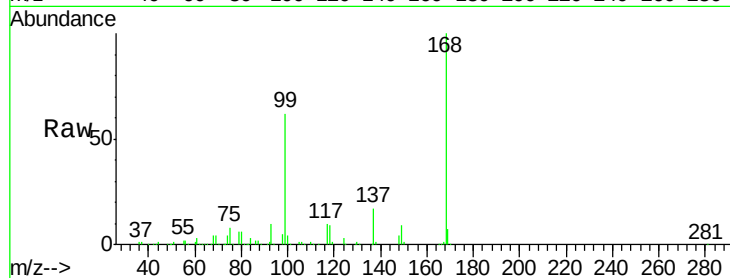
Tot Ion: 75 Resp: 23805

Ion Ratio Lower Upper

75 100

110 9.1 18.3 54.9#

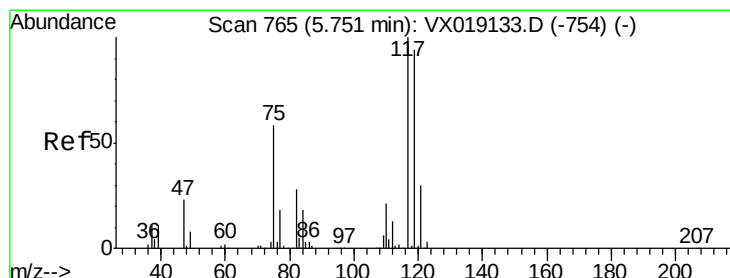
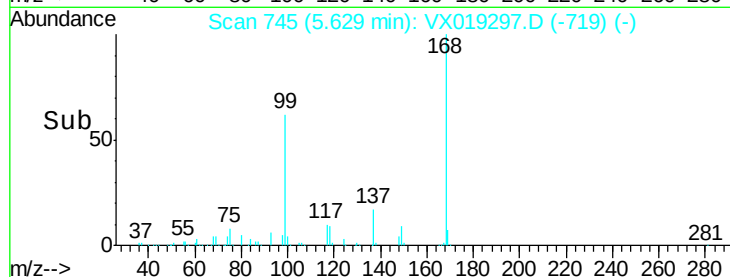
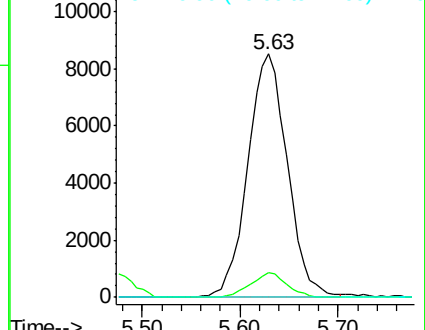
77 0.0 24.9 37.3#



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: 6.405 ug/l

RT: 5.63 min Scan# 746

Delta R.T. -0.12 min

Lab File: VX019297.D

Acq: 05 Nov 2020 02:02

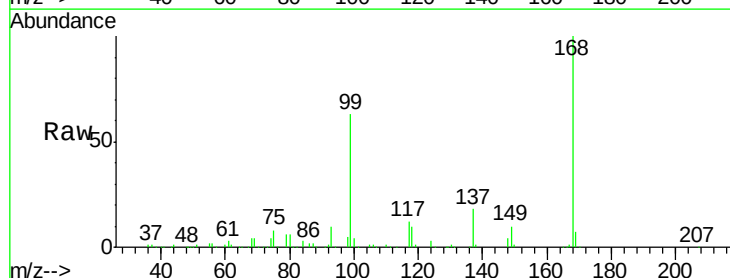
Tgt Ion: 117 Resp: 31198

Ion Ratio Lower Upper

117 100

119 5.1 75.0 112.6#

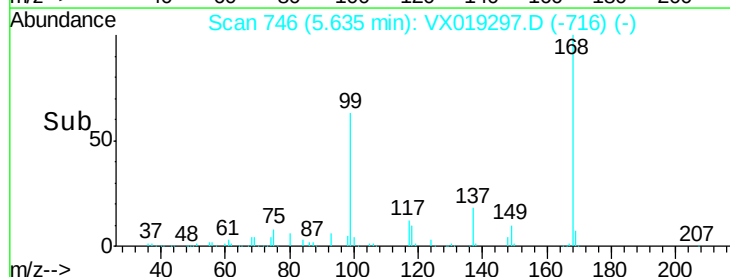
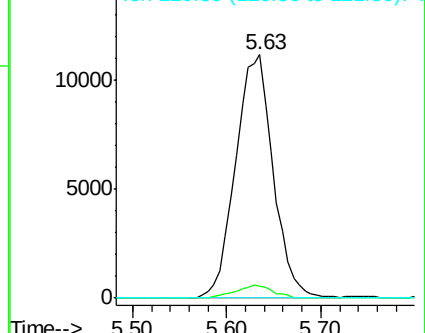
121 0.0 23.9 35.9#

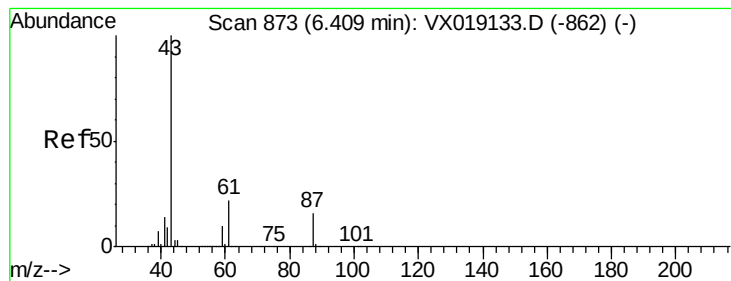


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#43

Isopropyl Acetate

Concen: 9.826 ug/l

RT: 6.41 min Scan# 873

Delta R.T. -0.00 min

Lab File: VX019297.D

Acq: 05 Nov 2020 02:02

Instrument :

MSVOA_X

ClientSampleId :

PAV-B7-110220-DP

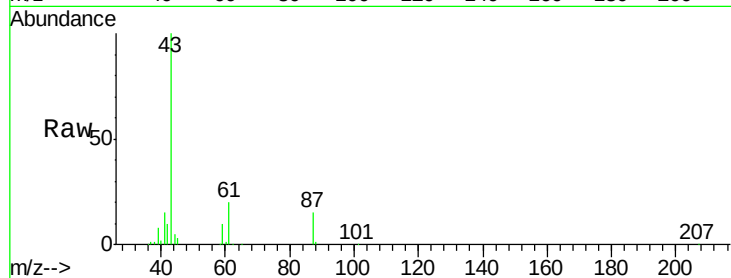
Tot Ion: 43 Resp: 73003

Ion Ratio Lower Upper

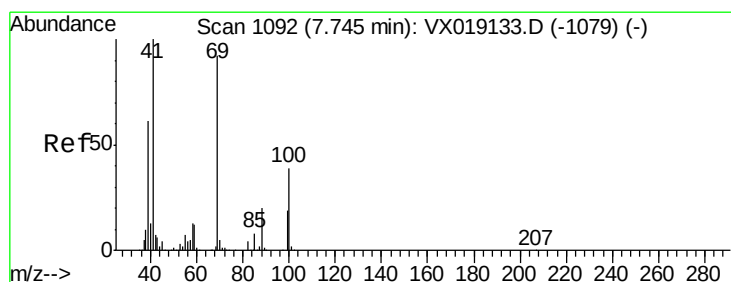
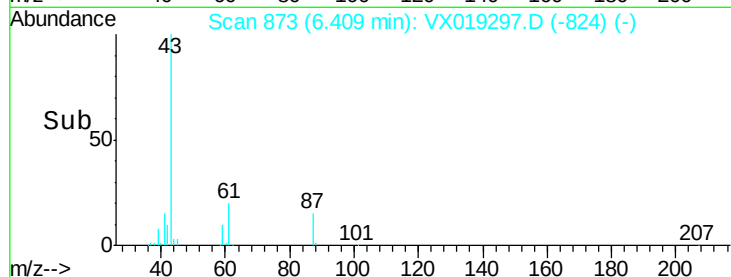
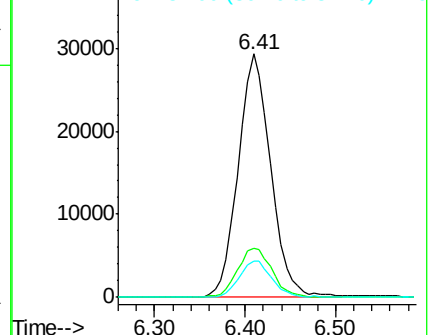
43 100

61 21.4 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

Methyl methacrylate

Concen: 1.103 ug/l

RT: 7.65 min Scan# 1077

Delta R.T. -0.09 min

Lab File: VX019297.D

Acq: 05 Nov 2020 02:02

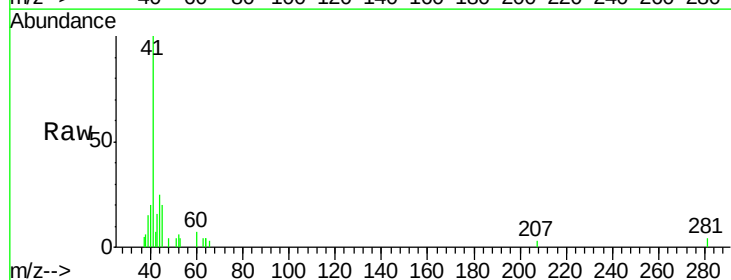
Tgt Ion: 41 Resp: 3944

Ion Ratio Lower Upper

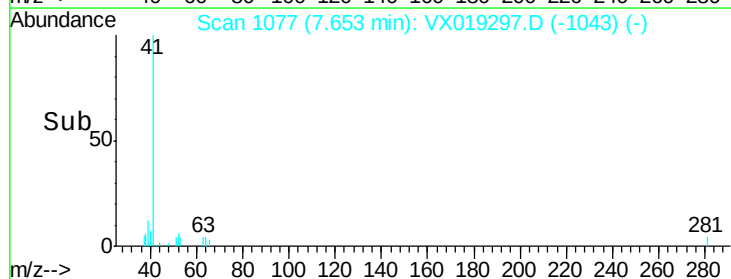
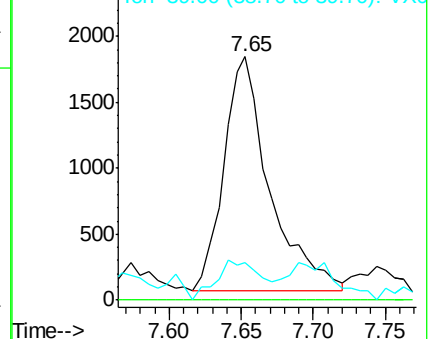
41 100

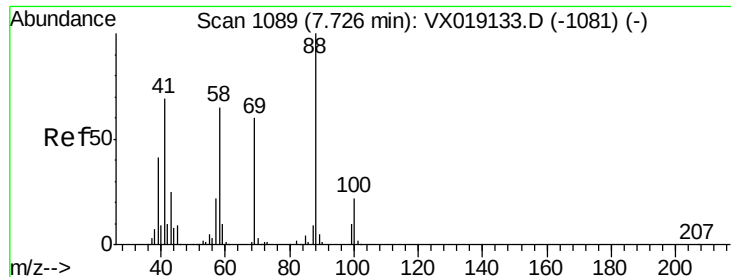
69 0.0 75.5 113.3#

39 0.0 48.9 73.3#



Abundance Ion 41.00 (40.70 to 41.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 39.00 (38.70 to 39.70): VX0





#49

1,4-Dioxane

Concen: 3.131 ug/l

RT: 7.85 min Scan# 1109

Delta R.T. 0.12 min

Lab File: VX019297.D

Acq: 05 Nov 2020 02:02

Instrument :

MSVOA_X

ClientSampleId :

PAV-B7-110220-DP

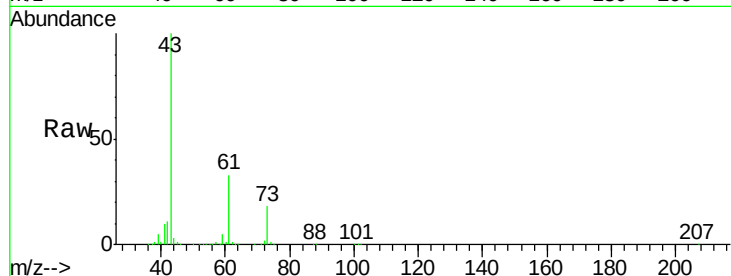
Tot Ion: 88 Resp: 249

Ion Ratio Lower Upper

88 100

43 485655.8 23.0 34.6#

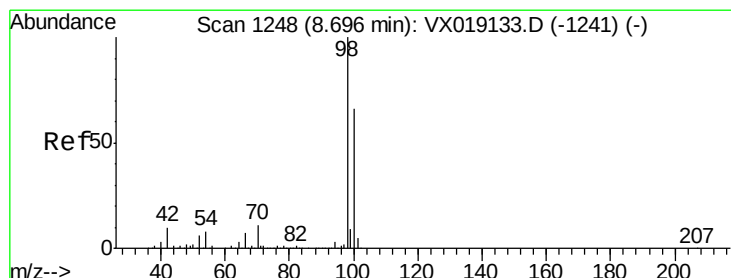
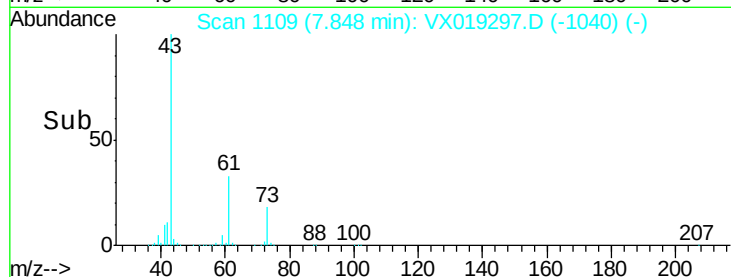
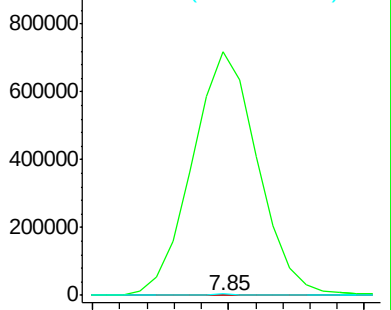
58 2357.0 52.2 78.2#



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: 53.240 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX019297.D

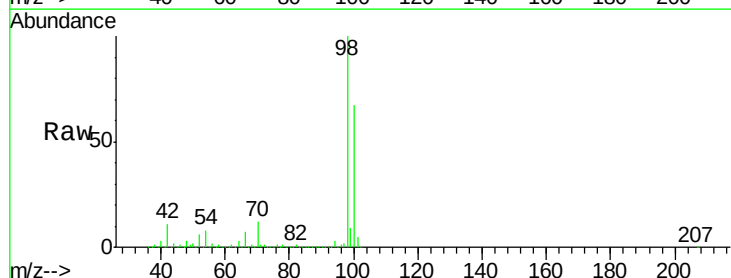
Acq: 05 Nov 2020 02:02

Tgt Ion: 98 Resp: 652410

Ion Ratio Lower Upper

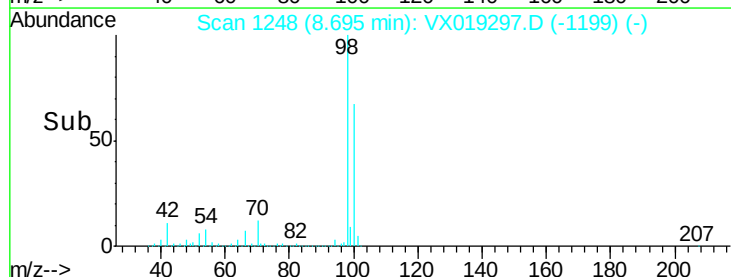
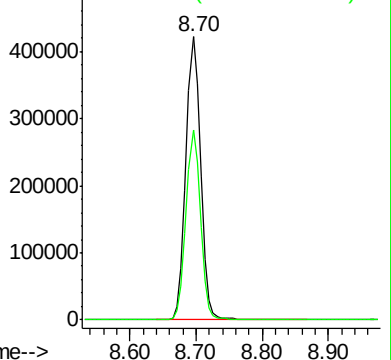
98 100

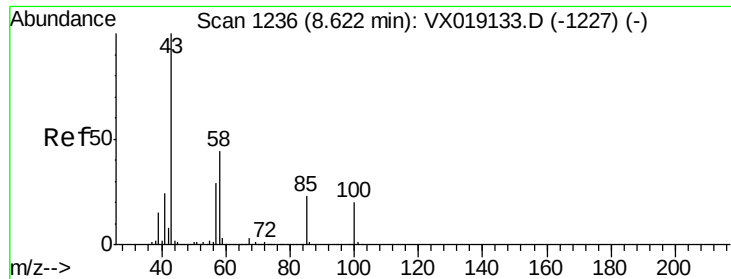
100 65.9 53.0 79.6



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0





#51

4-Methyl-2-Pentanone

Concen: 16.763 ug/l

RT: 8.59 min Scan# 1231

Delta R.T. -0.03 min

Lab File: VX019297.D

Acq: 05 Nov 2020 02:02

Instrument :

MSVOA_X

ClientSampleId :

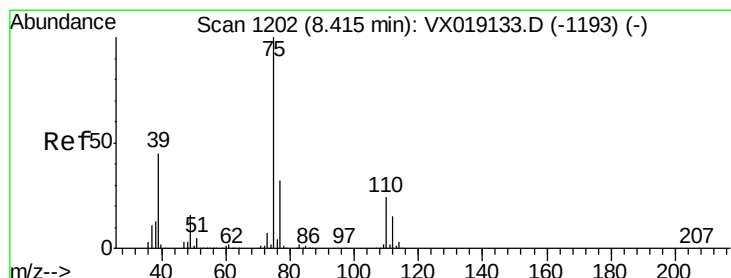
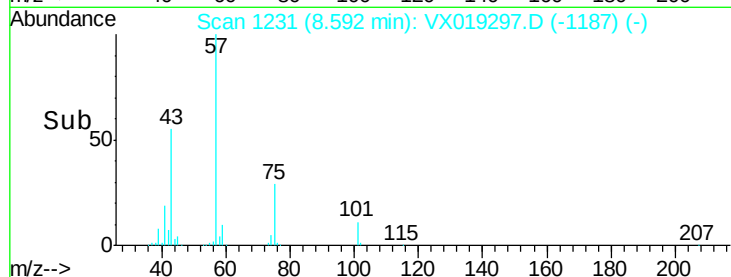
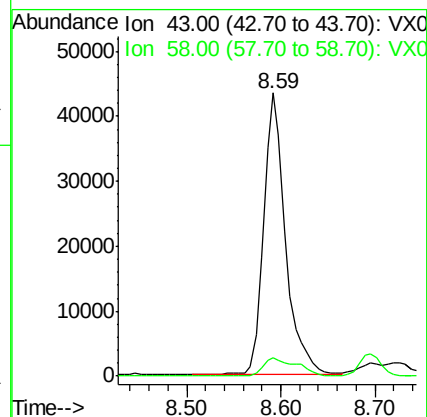
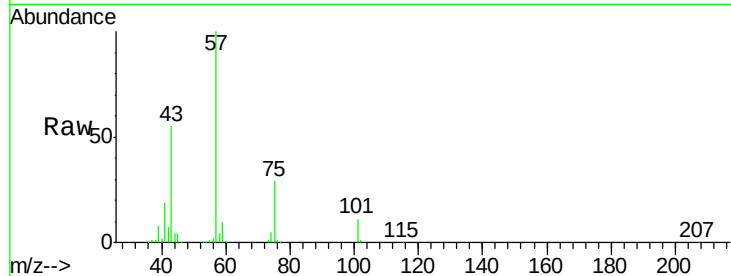
PAV-B7-110220-DP

Tot Ion: 43 Resp: 71579

Ion Ratio Lower Upper

43 100

58 9.9 35.0 52.4#



#54

cis-1,3-Dichloropropene

Concen: 5.924 ug/l

RT: 8.59 min Scan# 1231

Delta R.T. 0.18 min

Lab File: VX019297.D

Acq: 05 Nov 2020 02:02

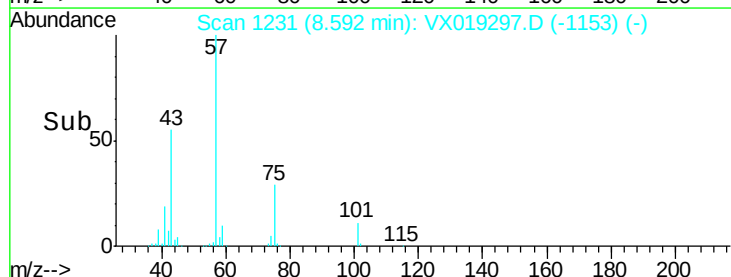
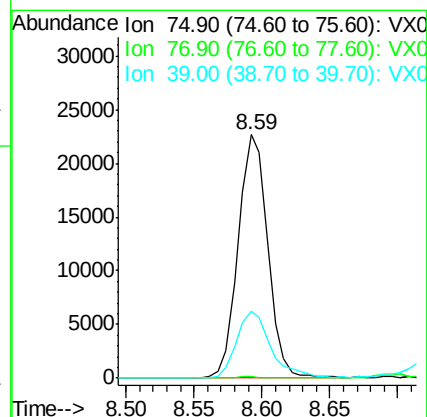
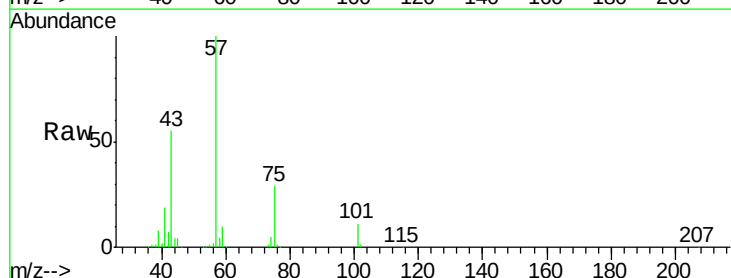
Tgt Ion: 75 Resp: 34420

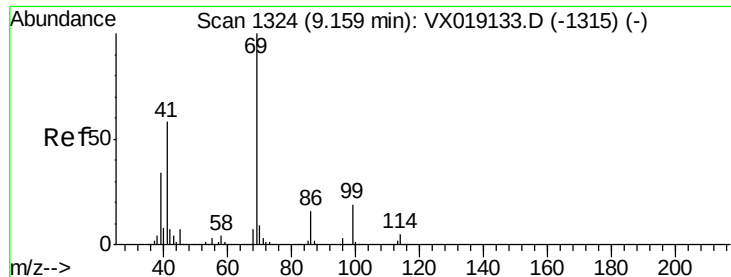
Ion Ratio Lower Upper

75 100

77 0.5 25.5 38.3#

39 27.4 36.2 54.2#





#56

Ethyl methacrylate

Concen: 0.217 ug/l

RT: 9.29 min Scan# 1345

Delta R.T. 0.13 min

Lab File: VX019297.D

Acq: 05 Nov 2020 02:02

Instrument :

MSVOA_X

ClientSampleId :

PAV-B7-110220-DP

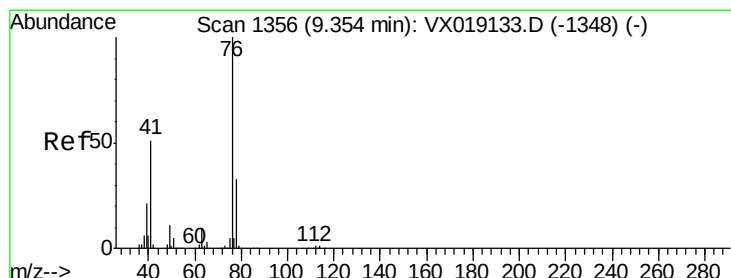
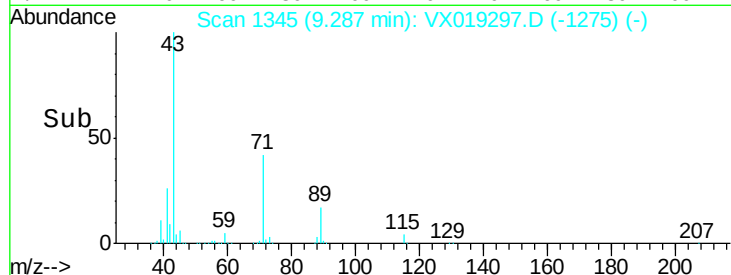
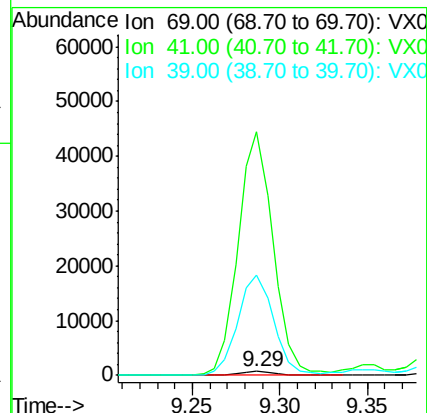
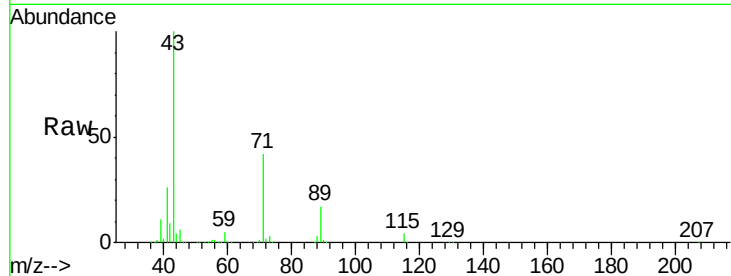
Tot Ion: 69 Resp: 1128

Ion Ratio Lower Upper

69 100

41 5464.5 46.5 69.7#

39 2322.9 27.6 41.4#



#57

1,3-Dichloropropane

Concen: 1.037 ug/l

RT: 9.52 min Scan# 1384

Delta R.T. 0.17 min

Lab File: VX019297.D

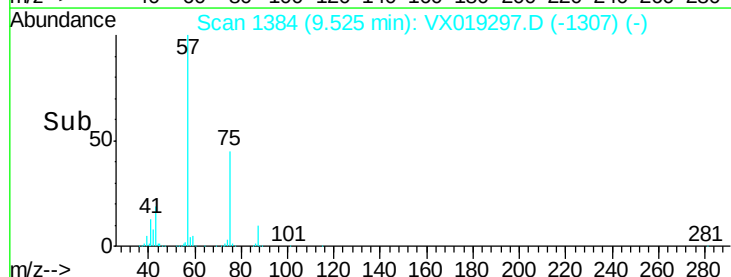
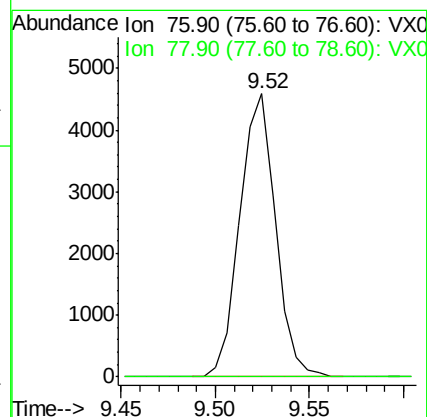
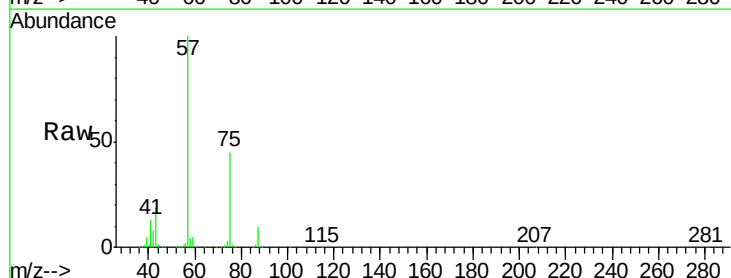
Acq: 05 Nov 2020 02:02

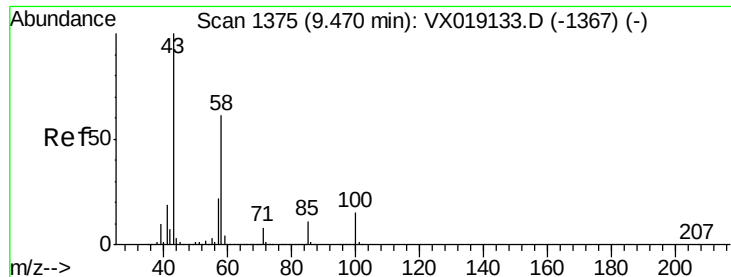
Tgt Ion: 76 Resp: 6030

Ion Ratio Lower Upper

76 100

78 0.0 25.9 38.9#

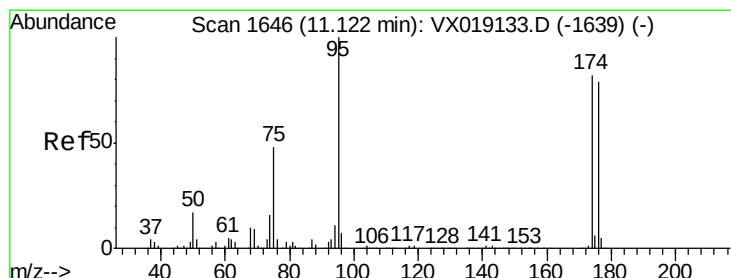
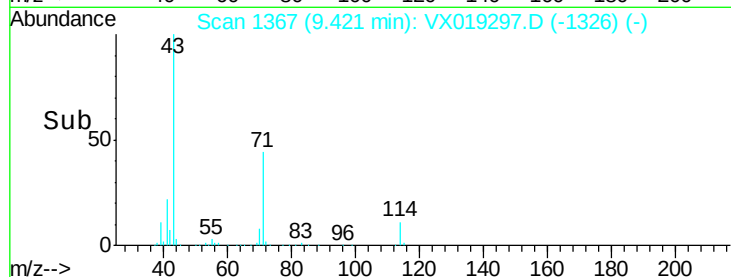
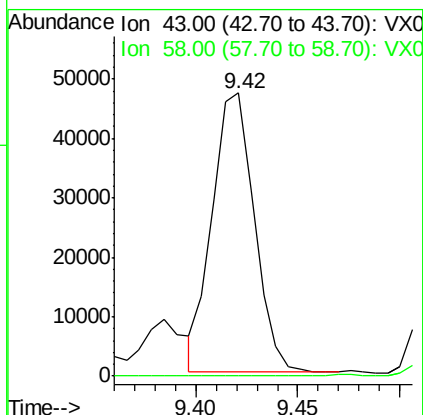
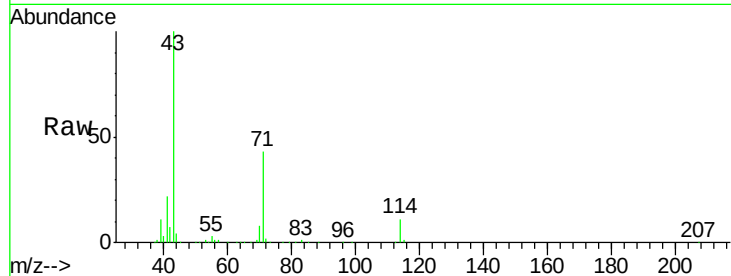




#59
2-Hexanone
Concen: 20.630 ug/l
RT: 9.42 min Scan# 1367
Delta R.T. -0.05 min
Lab File: VX019297.D
Acq: 05 Nov 2020 02:02

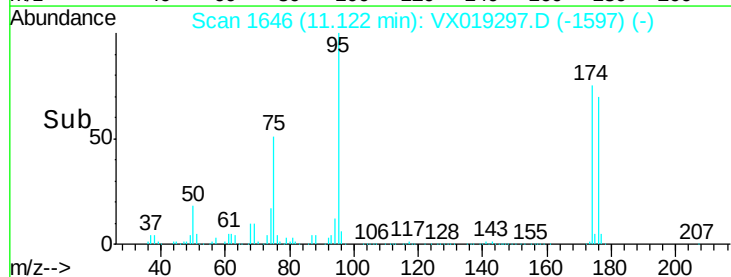
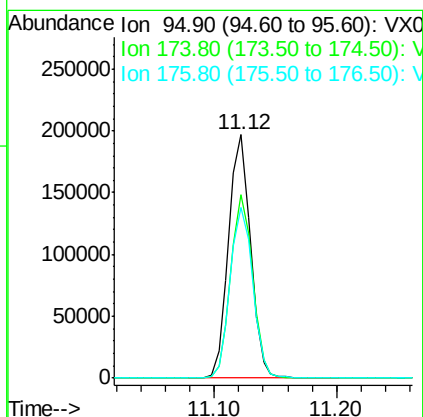
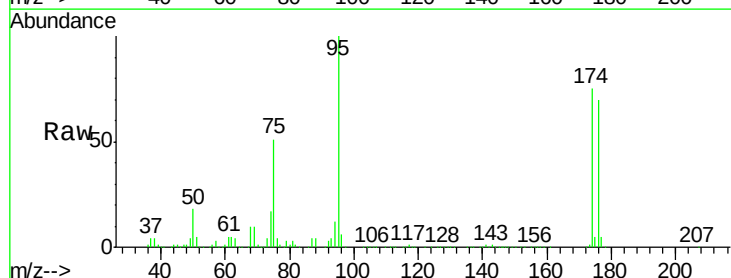
Instrument :
MSVOA_X
ClientSampleId :
PAV-B7-110220-DP

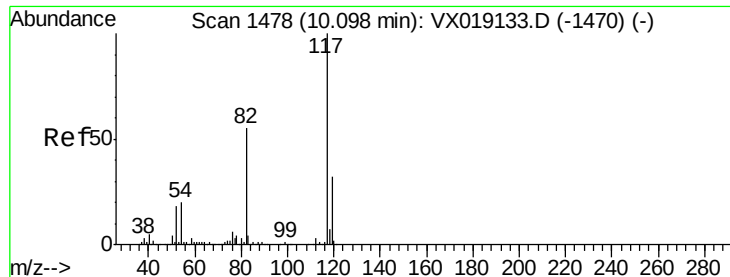
Tot Ion: 43 Resp: 67056
Ion Ratio Lower Upper
43 100
58 0.0 30.5 91.5#



#62
4-Bromofluorobenzene
Concen: 52.639 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. -0.00 min
Lab File: VX019297.D
Acq: 05 Nov 2020 02:02

Tgt Ion: 95 Resp: 244283
Ion Ratio Lower Upper
95 100
174 75.4 0.0 156.0
176 72.2 0.0 149.8

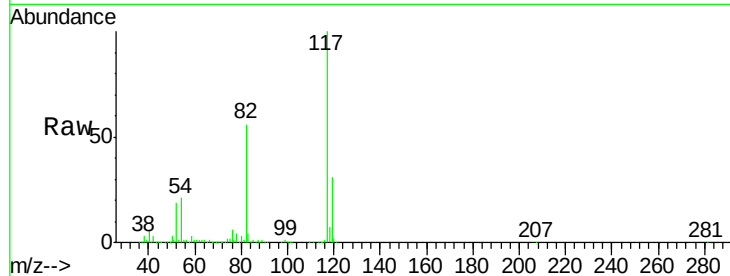




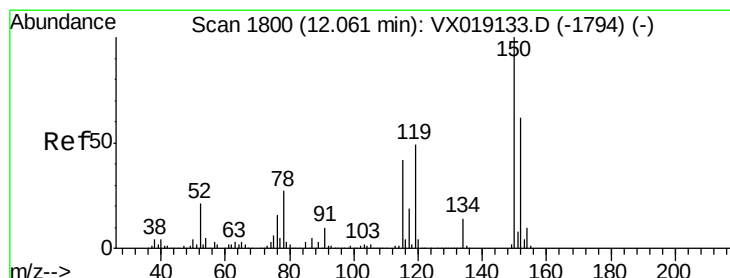
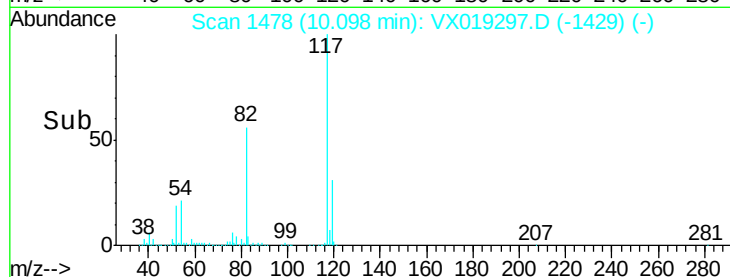
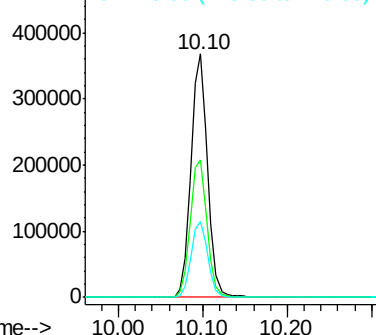
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX019297.D
Acq: 05 Nov 2020 02:02

Instrument :
MSVOA_X
ClientSampleId :
PAV-B7-110220-DP

Tot Ion:117 Resp: 499151
Ion Ratio Lower Upper
117 100
82 56.4 43.6 65.4
119 31.2 25.5 38.3

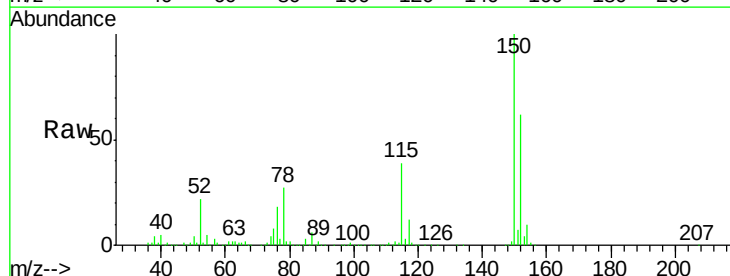


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

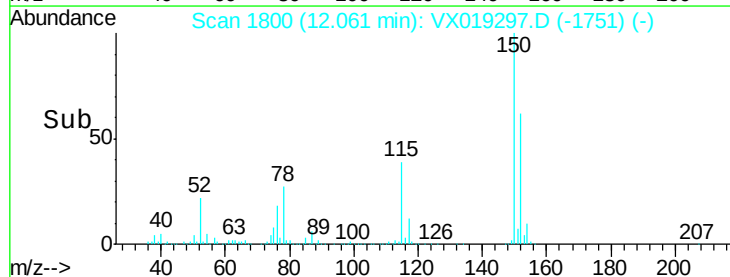
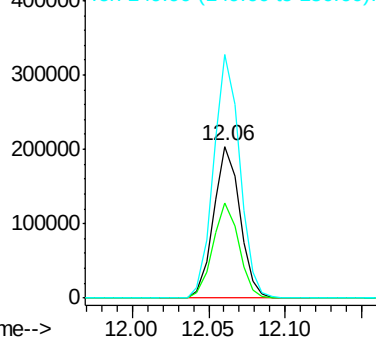


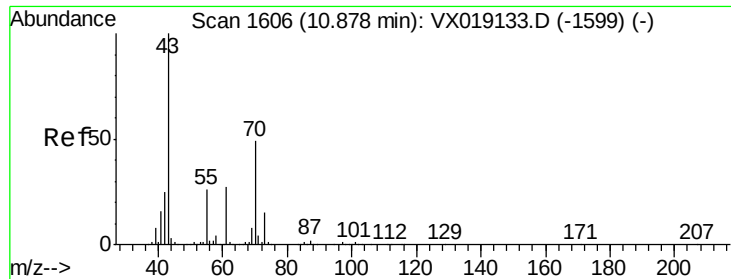
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. -0.00 min
Lab File: VX019297.D
Acq: 05 Nov 2020 02:02

Tgt Ion:152 Resp: 243494
Ion Ratio Lower Upper
152 100
115 62.0 41.9 125.7
150 159.3 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





#74

N-amvl acetate

Concen: 0.465 ug/l

RT: 10.80 min Scan# 1594

Delta R.T. -0.07 min

Lab File: VX019297.D

Acq: 05 Nov 2020 02:02

Instrument :

MSVOA_X

ClientSampleId :

PAV-B7-110220-DP

Tot Ion: 43 Resp: 2931

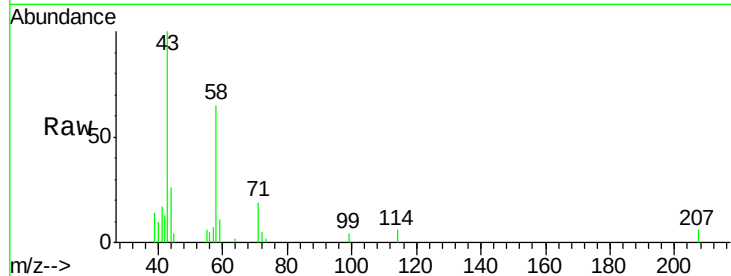
Ion Ratio Lower Upper

43 100

70 0.0 39.6 59.4#

55 10.5 20.7 31.1#

61 0.0 21.9 32.9#

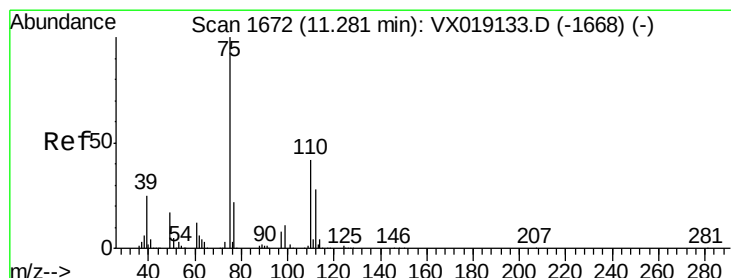
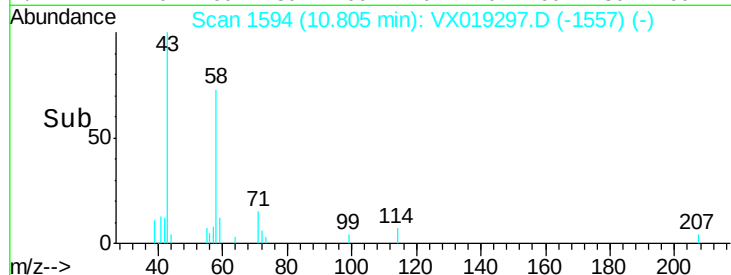
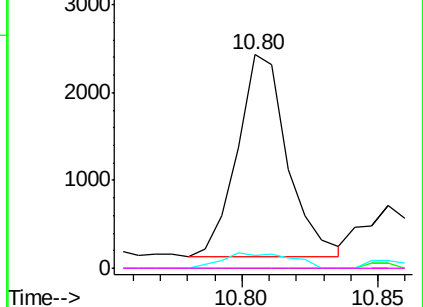


Abundance Ion 43.00 (42.70 to 43.70): VX0

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: 24.986 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX019297.D

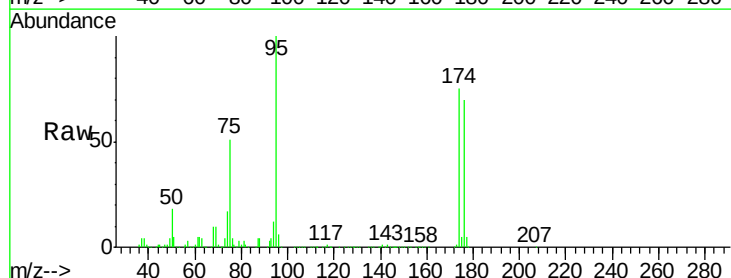
Acq: 05 Nov 2020 02:02

Tgt Ion: 75 Resp: 125619

Ion Ratio Lower Upper

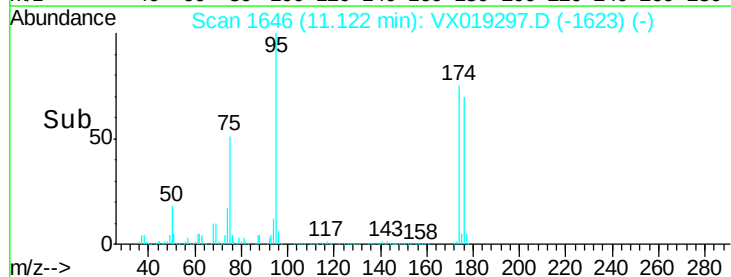
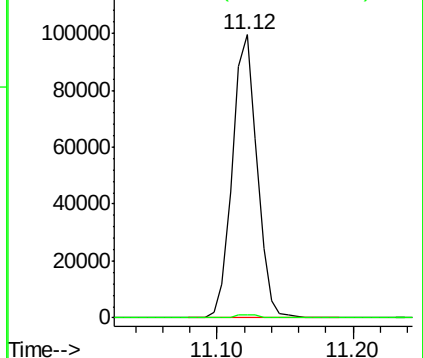
75 100

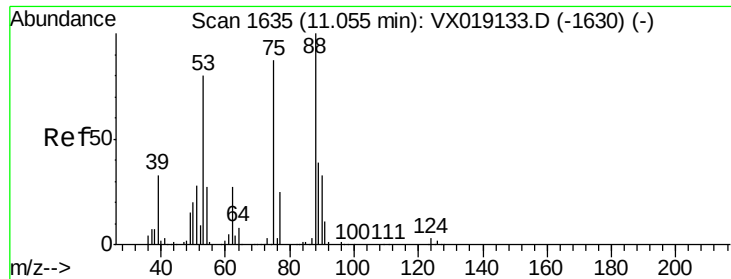
77 1.1 20.3 60.9#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 65.787 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX019297.D

Acq: 05 Nov 2020 02:02

Instrument :

MSVOA_X

ClientSampleId :

PAV-B7-110220-DP

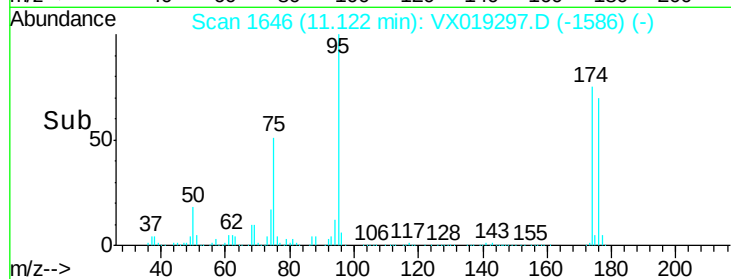
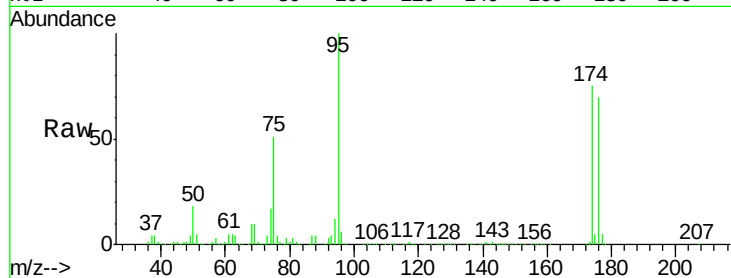
Tot Ion: 75 Resp: 125619

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

