

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX112320\
 Data File : VX019579.D
 Acq On : 24 Nov 2020 03:08
 Operator : JC/MD
 Sample : PB133157ZHE#09
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB133157ZHE#09

Quant Time: Nov 24 05:17:40 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X112120W.M
 Quant Title : SW846 8260
 QLast Update : Sat Nov 21 01:57:45 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	331241	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.82	114	538852	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	471044	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	206680	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	201138	46.83	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	93.66%	
35) Dibromofluoromethane		5.46	113	159630	47.19	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	94.38%	
50) Toluene-d8		8.70	98	638403	48.57	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	97.14%	
62) 4-Bromofluorobenzene		11.12	95	220225	46.57	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	93.14%	

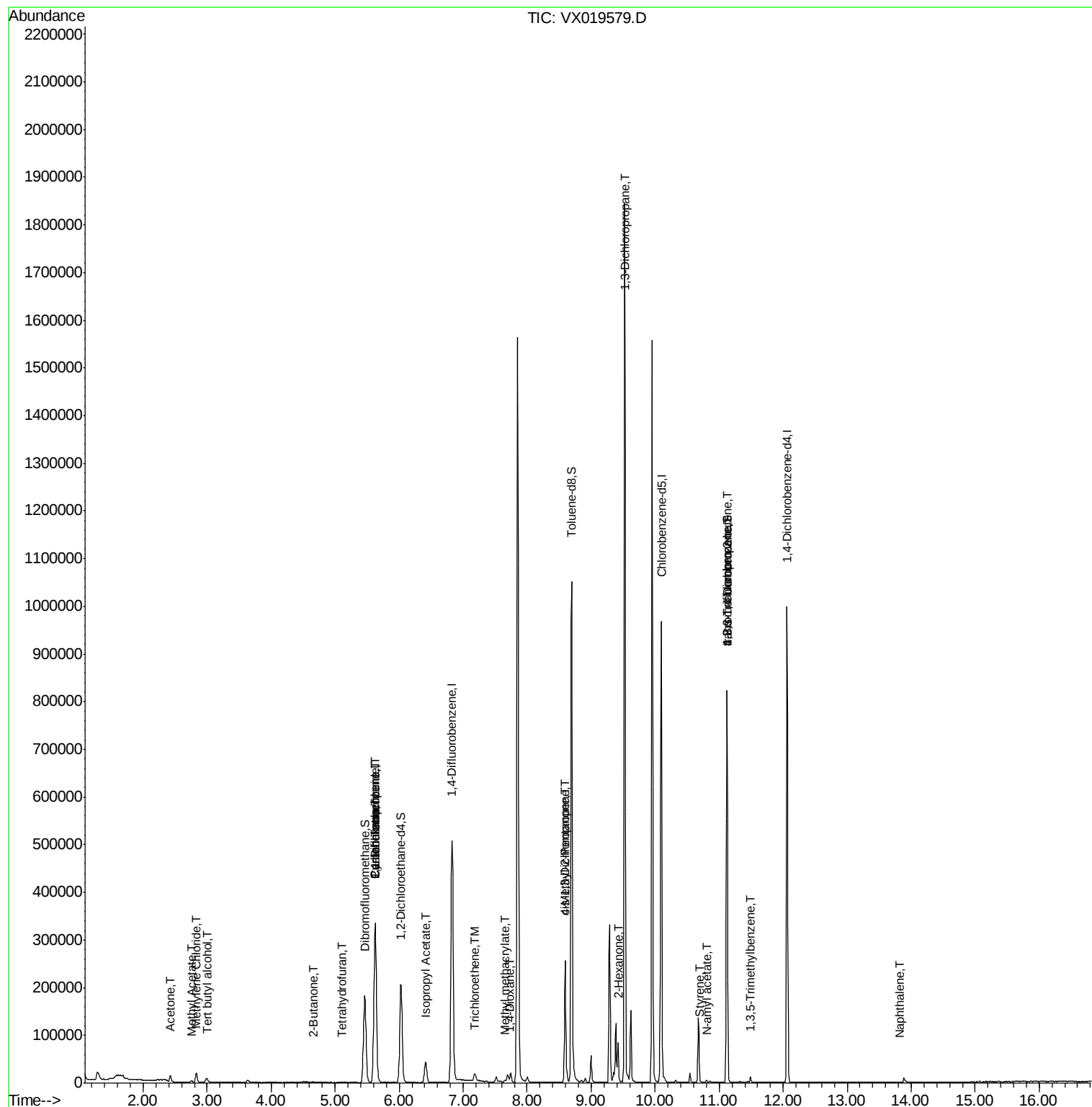
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Chloroethane	1.70	64	1365	Below Cal	#	45
11) Tert butyl alcohol	3.00	59	6594	8.113	ug/l #	73
16) Acetone	2.43	43	12506	7.530	ug/l	99
18) Methyl Acetate	2.75	43	4503	1.726	ug/l	95
20) Methylene Chloride	2.83	84	9596	2.312	ug/l	95
25) 2-Butanone	4.65	43	2747	1.101	ug/l	95
29) Tetrahydrofuran	5.10	42	1590	0.999	ug/l #	61
31) Cyclohexane	5.62	56	6301	1.128	ug/l #	1
36) 1,1-Dichloropropene	5.62	75	25123	4.973	ug/l #	50
38) Carbon Tetrachloride	5.62	117	32351	6.616	ug/l #	17
43) Isopropyl Acetate	6.41	43	59145	7.419	ug/l	99
44) Trichloroethene	7.19	130	2885	0.710	ug/l	86
48) Methyl methacrylate	7.65	41	5350	1.433	ug/l #	9
49) 1,4-Dioxane	7.73	88	68	0.802	ug/l #	1
51) 4-Methyl-2-Pentanone	8.59	43	85157	18.318	ug/l #	47
54) cis-1,3-Dichloropropene	8.59	75	46128	7.584	ug/l #	59
57) 1,3-Dichloropropane	9.52	76	16652	2.572	ug/l #	43
59) 2-Hexanone	9.42	43	51923	14.727	ug/l #	20
70) Styrene	10.70	104	269	1.669	ug/l #	75
74) N-amyl acetate	10.81	43	2371	0.443	ug/l #	45
76) 1,2,3-Trichloropropane	11.12	75	108479	24.051	ug/l #	37
80) 1,3,5-Trimethylbenzene	11.49	105	5752	0.480	ug/l	100
81) trans-1,4-Dichloro-2-buten	11.12	75	108479	63.692	ug/l #	12
95) Naphthalene	13.82	128	256	2.194	ug/l #	69

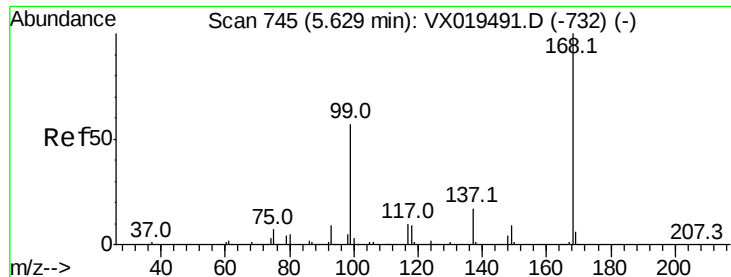
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Nov 24 05:17:40 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X112120W.M
Quant Title : SW846 8260
QLast Update : Sat Nov 21 01:57:45 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: VX019579.D

Acq: 24 Nov 2020 03:08

Instrument :

MSVOA_X

ClientSampleId :

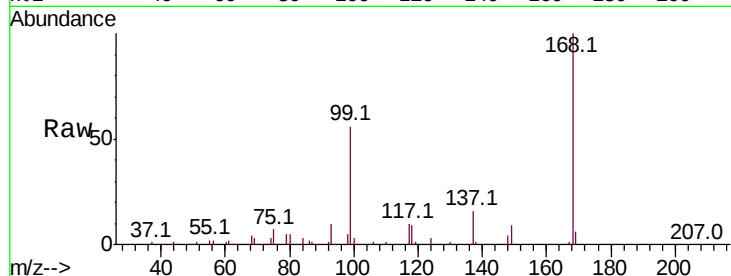
PB133157ZHE#09

Tot Ion:168 Resp: 331241

Ion Ratio Lower Upper

168 100

99 56.4 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

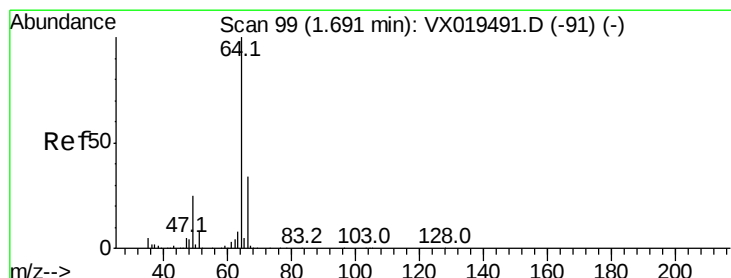
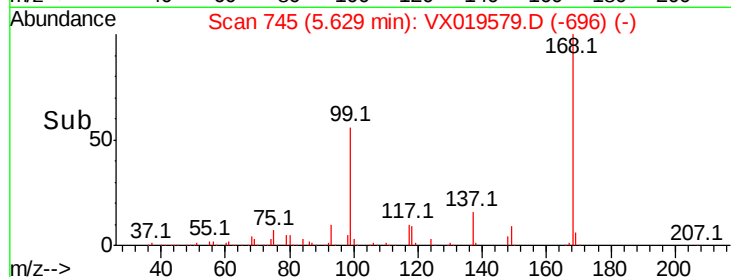
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#6

Chloroethane

Concen: Below Cal

RT: 1.70 min Scan# 100

Delta R.T. 0.01 min

Lab File: VX019579.D

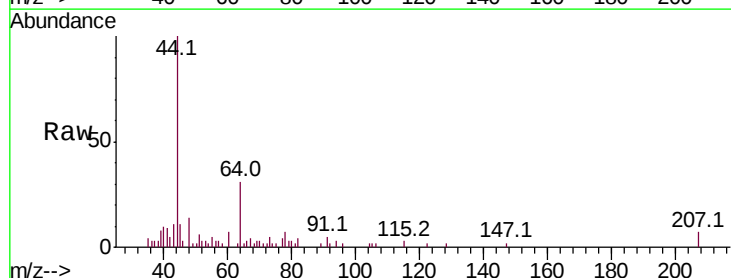
Acq: 24 Nov 2020 03:08

Tgt Ion: 64 Resp: 1365

Ion Ratio Lower Upper

64 100

66 2.5 27.1 40.7#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.70

1200

1000

800

600

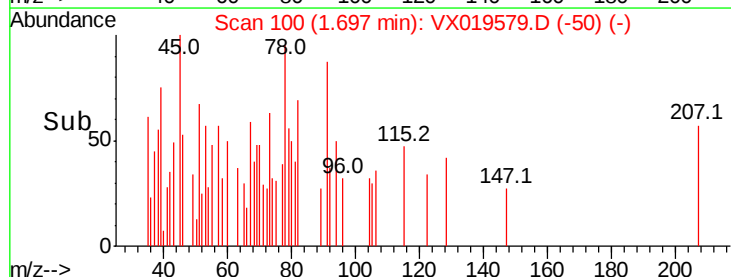
400

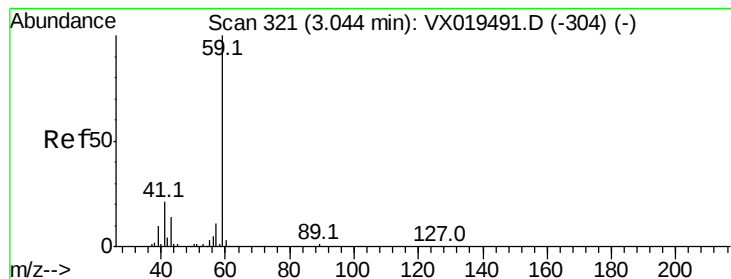
200

0

Time-->

1.65 1.70



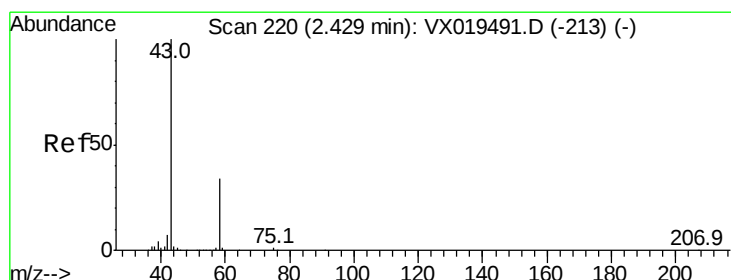
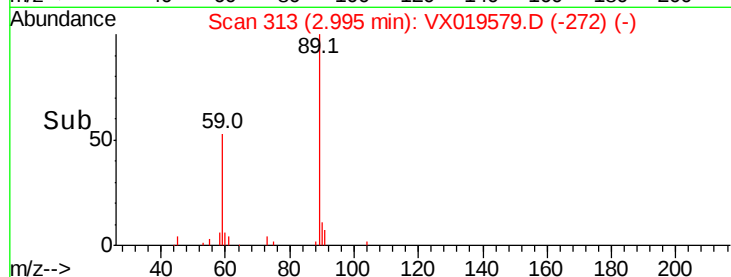
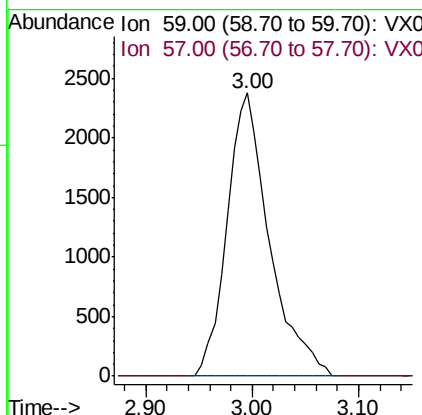
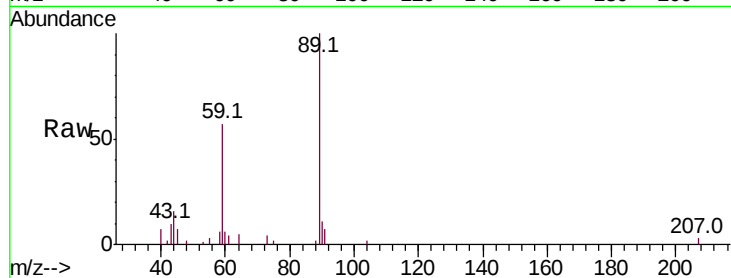


#11

Tert butyl alcohol
 Concen: 8.113 ug/l
 RT: 3.00 min Scan# 313
 Delta R.T. -0.05 min
 Lab File: VX019579.D
 Acq: 24 Nov 2020 03:08

Instrument :
 MSVOA_X
 ClientSampleId :
 PB133157ZHE#09

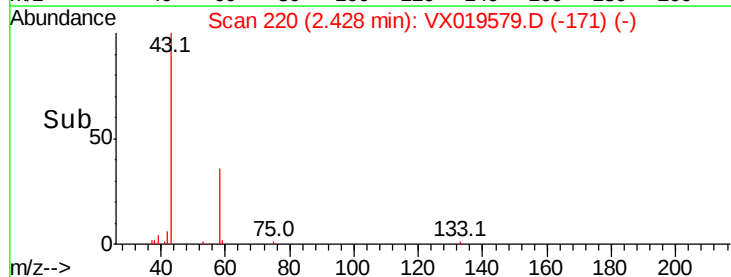
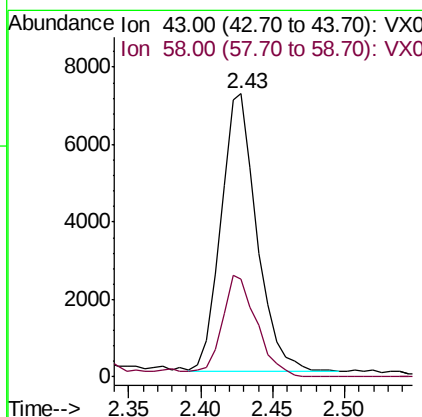
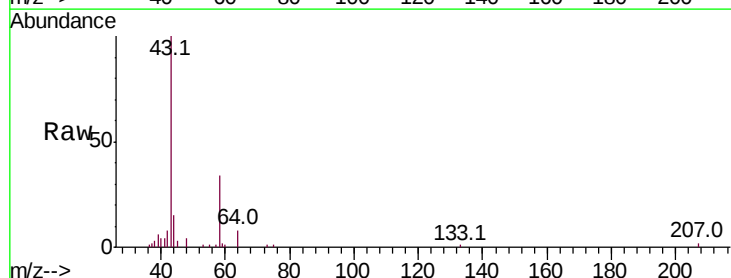
Tot Ion: 59 Resp: 6594
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.9 11.9#

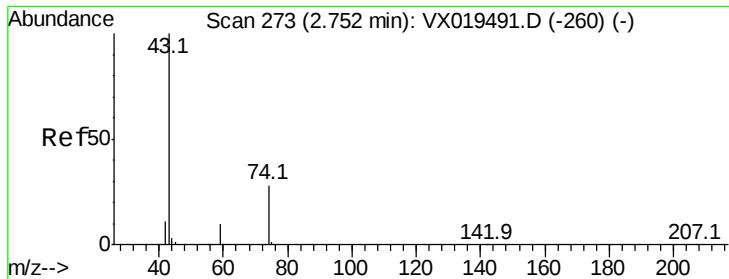


#16

Acetone
 Concen: 7.530 ug/l
 RT: 2.43 min Scan# 220
 Delta R.T. -0.00 min
 Lab File: VX019579.D
 Acq: 24 Nov 2020 03:08

Tgt Ion: 43 Resp: 12506
 Ion Ratio Lower Upper
 43 100
 58 35.1 27.4 41.2

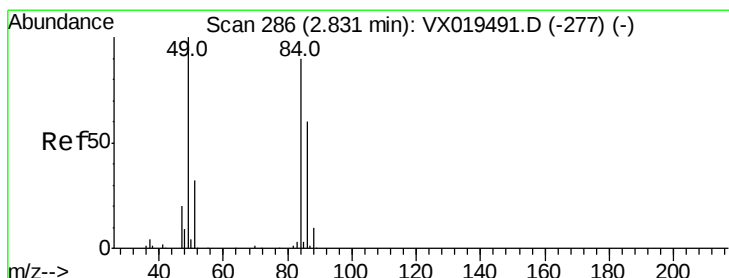
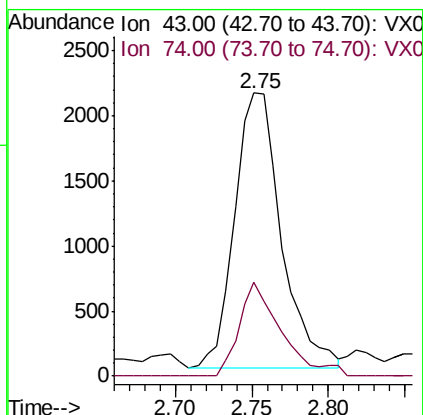
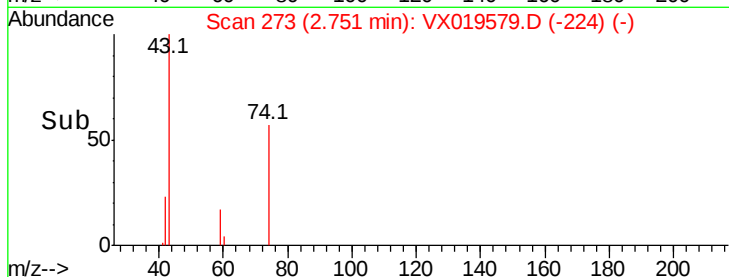
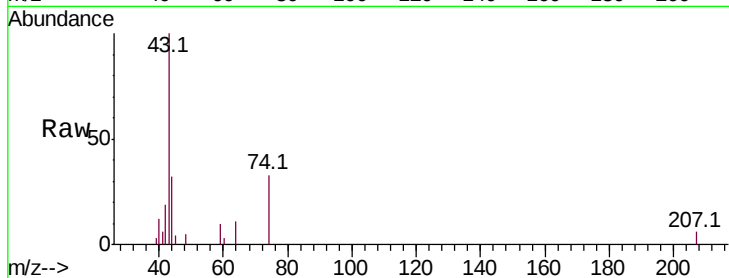




#18
Methvl Acetate
Concen: 1.726 ug/l
RT: 2.75 min Scan# 273
Delta R.T. 0.00 min
Lab File: VX019579.D
Acq: 24 Nov 2020 03:08

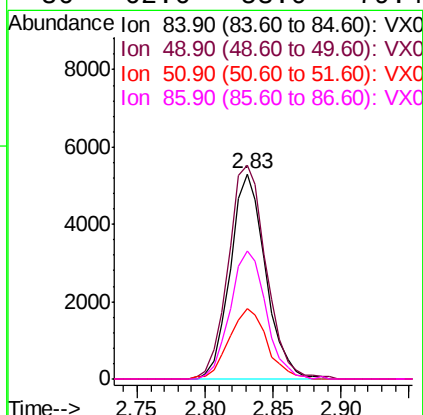
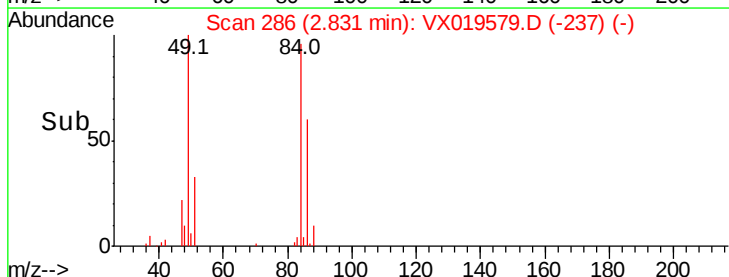
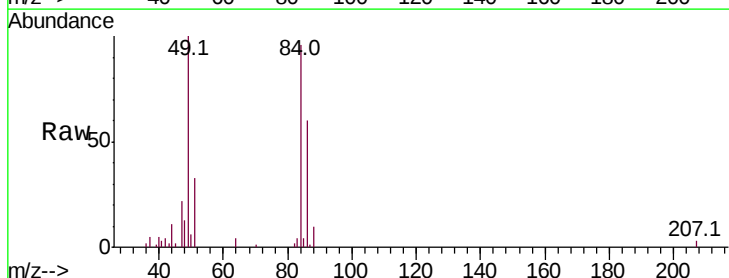
Instrument :
MSVOA_X
ClientSampleId :
PB133157ZHE#09

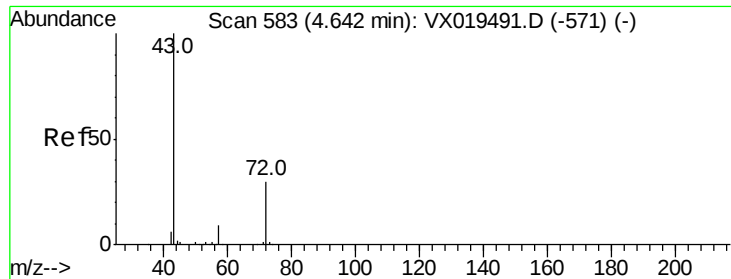
Tot Ion: 43 Resp: 4503
Ion Ratio Lower Upper
43 100
74 30.4 22.2 33.4



#20
Methylene Chloride
Concen: 2.312 ug/l
RT: 2.83 min Scan# 286
Delta R.T. -0.00 min
Lab File: VX019579.D
Acq: 24 Nov 2020 03:08

Tgt Ion: 84 Resp: 9596
Ion Ratio Lower Upper
84 100
49 104.0 88.5 132.7
51 34.1 28.0 42.0
86 62.6 53.0 79.4





#25

2-Butanone

Concen: 1.101 ug/l

RT: 4.65 min Scan# 585

Delta R.T. 0.01 min

Lab File: VX019579.D

Acq: 24 Nov 2020 03:08

Instrument :

MSVOA_X

ClientSampleId :

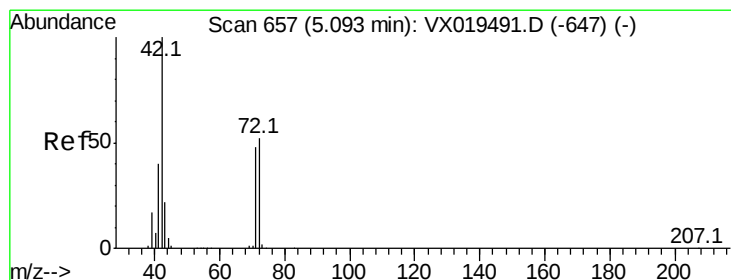
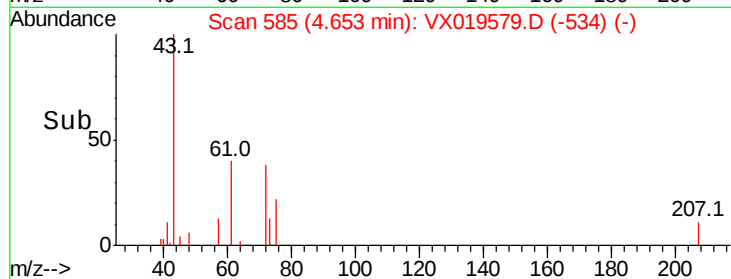
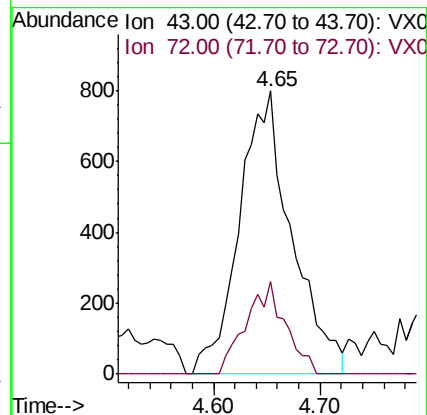
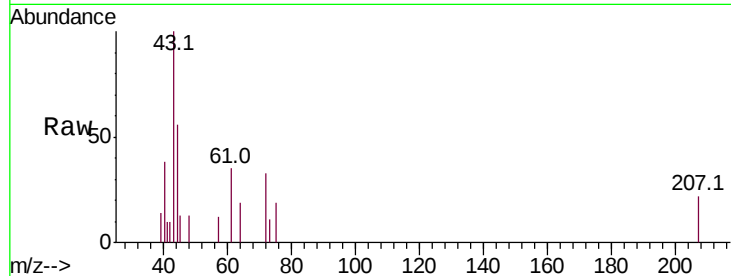
PB133157ZHE#09

Tot Ion: 43 Resp: 2747

Ion Ratio Lower Upper

43 100

72 32.6 24.0 36.0



#29

Tetrahydrofuran

Concen: 0.999 ug/l

RT: 5.10 min Scan# 658

Delta R.T. 0.01 min

Lab File: VX019579.D

Acq: 24 Nov 2020 03:08

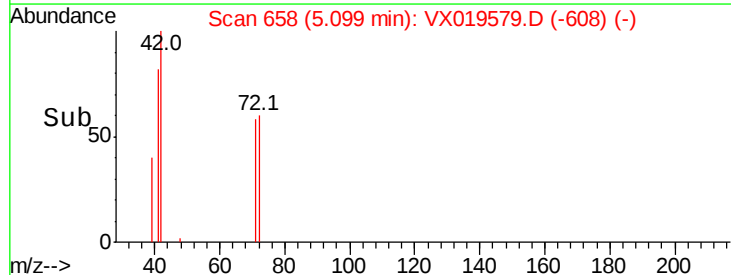
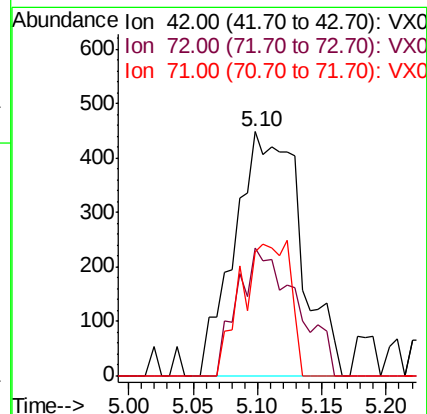
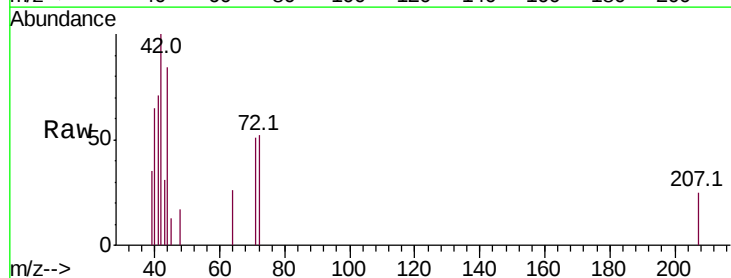
Tgt Ion: 42 Resp: 1590

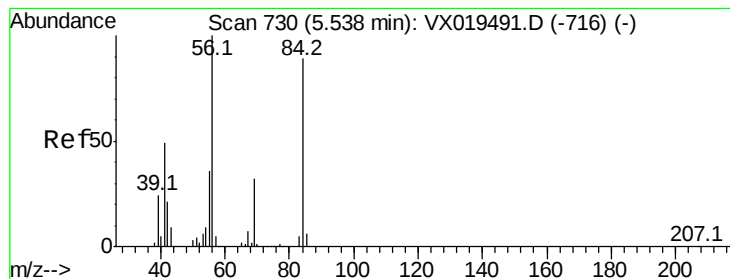
Ion Ratio Lower Upper

42 100

72 46.6 42.6 63.8

71 0.0 39.0 58.6#





#31

Cyclohexane

Concen: 1.128 ug/l

RT: 5.62 min Scan# 744

Delta R.T. 0.09 min

Lab File: VX019579.D

Acq: 24 Nov 2020 03:08

Instrument :

MSVOA_X

ClientSampleId :

PB133157ZHE#09

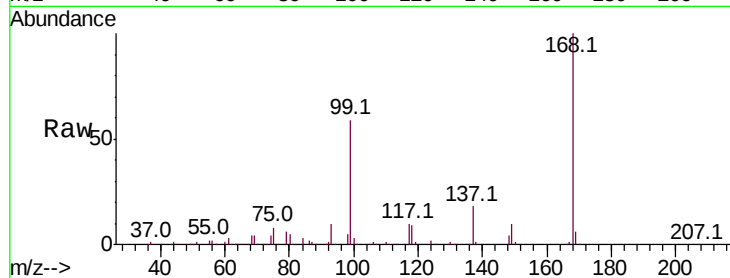
Tot Ion: 56 Resp: 6301

Ion Ratio Lower Upper

56 100

69 191.5 25.5 38.3#

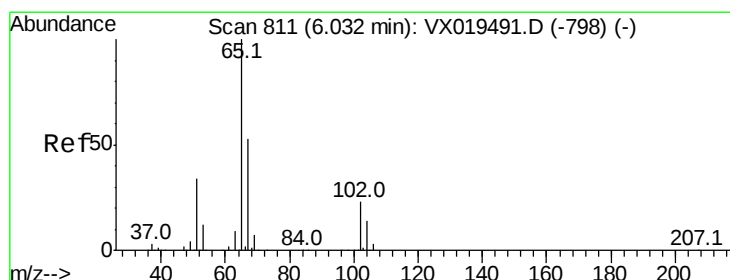
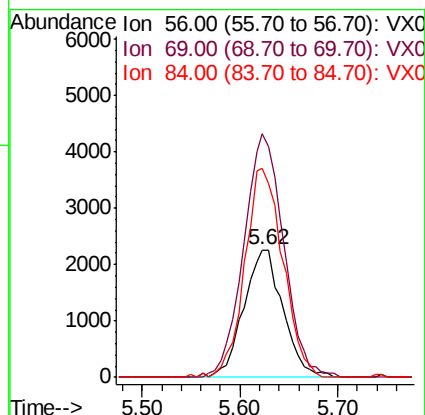
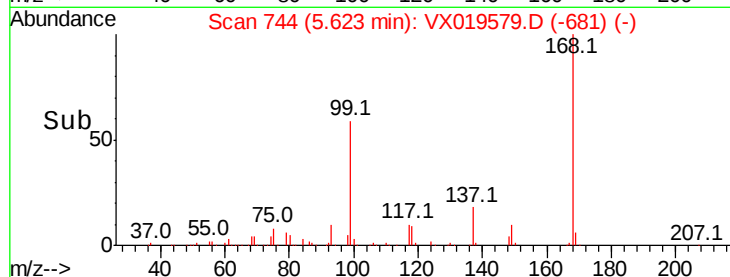
84 164.0 71.1 106.7#



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: 46.833 ug/l

RT: 6.03 min Scan# 810

Delta R.T. -0.01 min

Lab File: VX019579.D

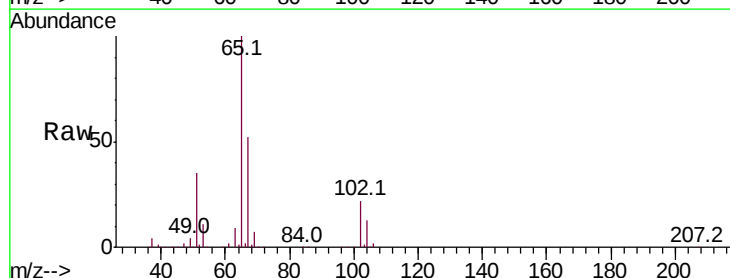
Acq: 24 Nov 2020 03:08

Tgt Ion: 65 Resp: 201138

Ion Ratio Lower Upper

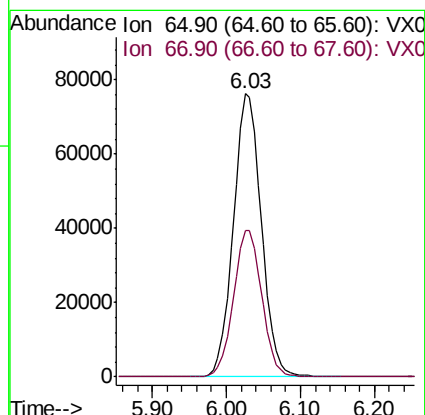
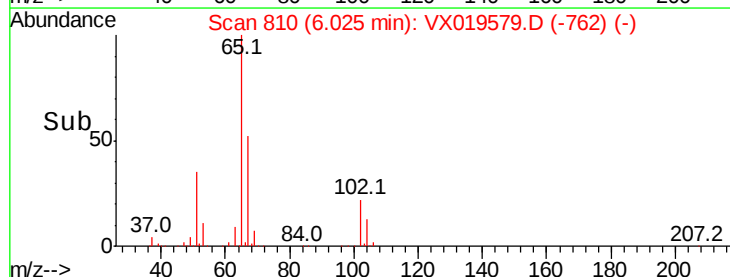
65 100

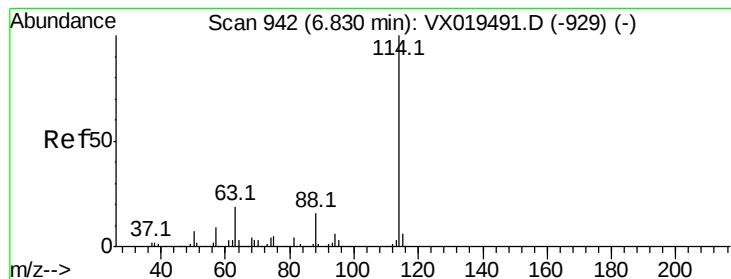
67 52.2 0.0 105.0



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: 6.82 min Scan# 941

Delta R.T. -0.01 min

Lab File: VX019579.D

Acq: 24 Nov 2020 03:08

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ClientSampleId :

PB133157ZHE#09

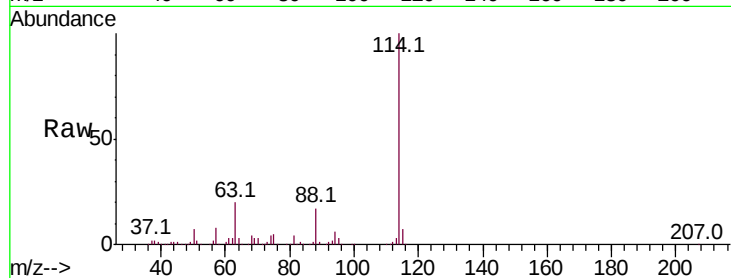
Tot Ion:114 Resp: 538852

Ion Ratio Lower Upper

114 100

63 20.3 0.0 38.8

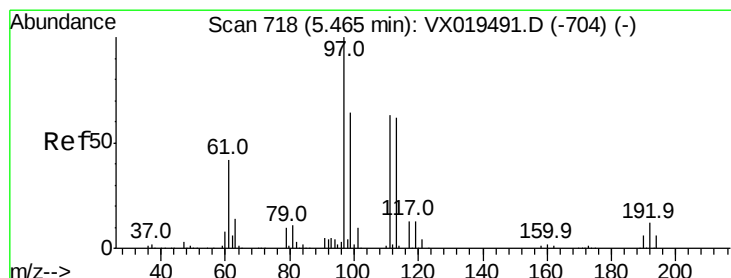
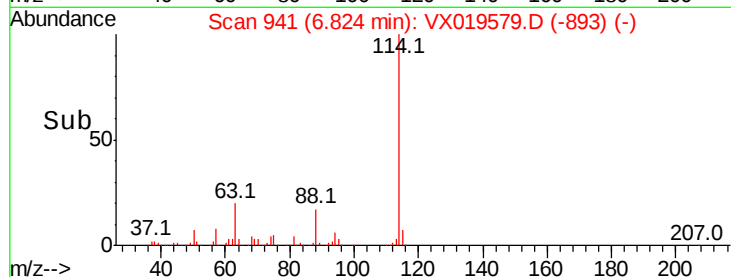
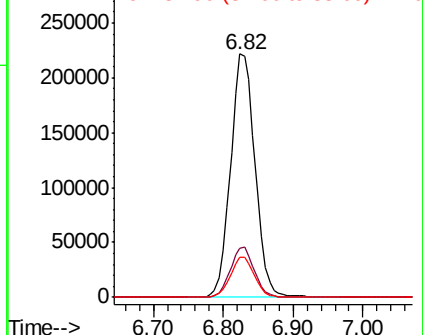
88 16.6 0.0 31.6



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: 47.195 ug/l

RT: 5.46 min Scan# 718

Delta R.T. -0.00 min

Lab File: VX019579.D

Acq: 24 Nov 2020 03:08

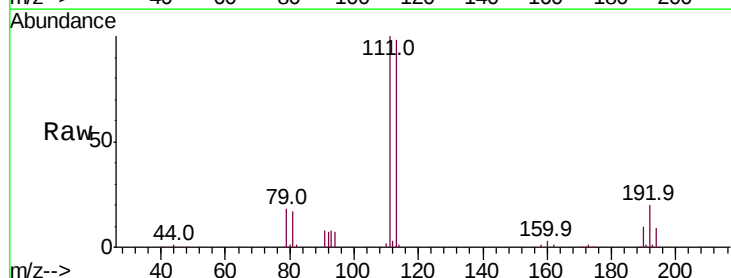
Tgt Ion:113 Resp: 159630

Ion Ratio Lower Upper

113 100

111 103.9 81.5 122.3

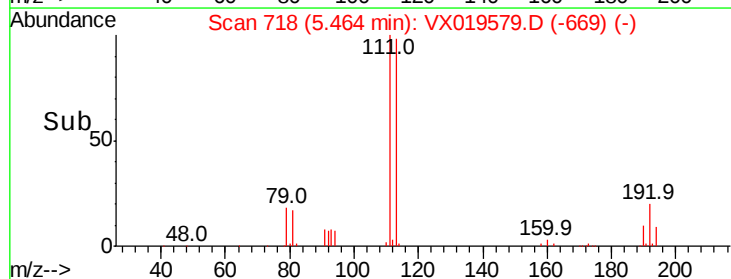
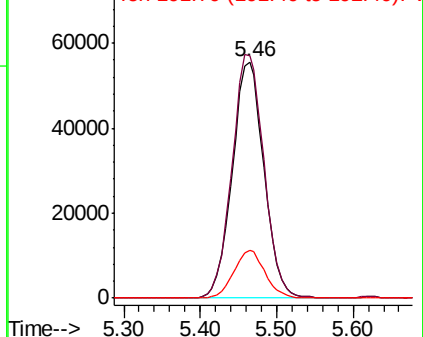
192 19.8 16.2 24.2

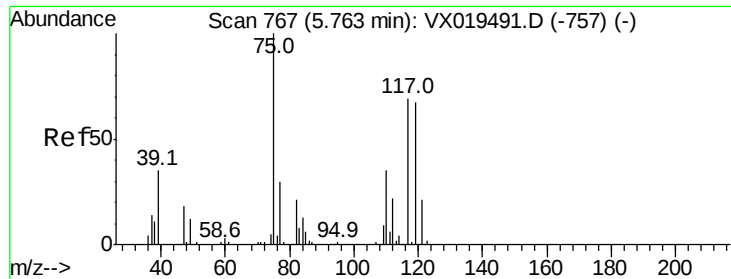


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

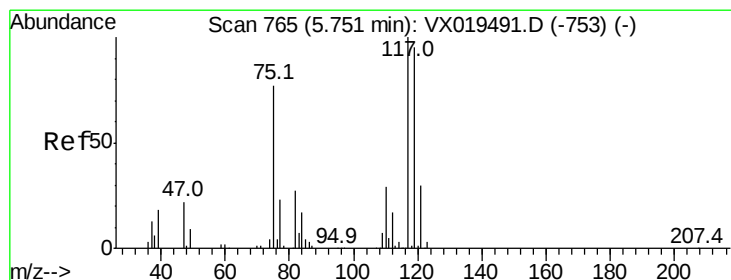
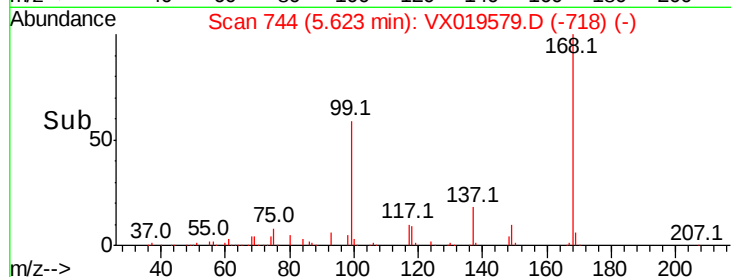
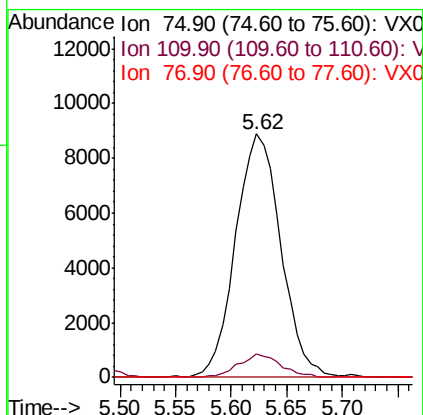
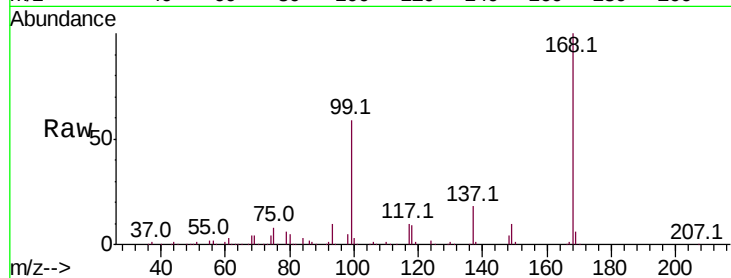




#36
 1,1-Dichloropropene
 Concen: 4.973 ug/l
 RT: 5.62 min Scan# 744
 Delta R.T. -0.14 min
 Lab File: VX019579.D
 Acq: 24 Nov 2020 03:08

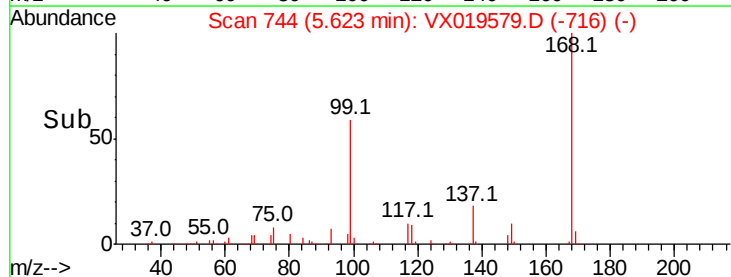
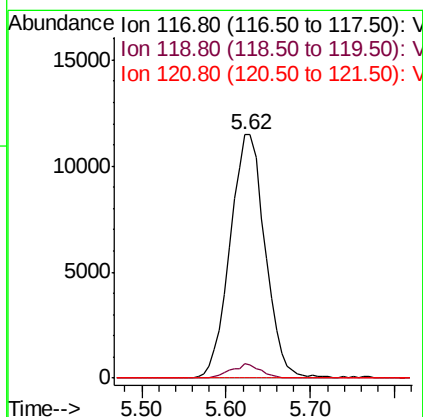
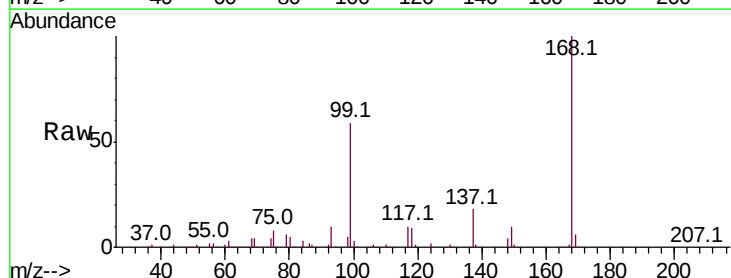
Instrument :
 MSVOA_X
 ClientSampleId :
 PB133157ZHE#09

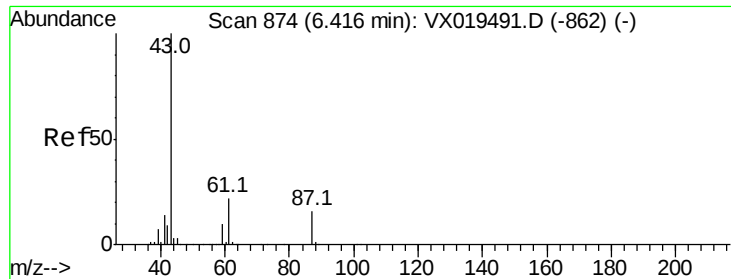
Tot Ion	Ratio	Lower	Upper
75	100		
110	9.0	18.1	54.3#
77	0.0	24.2	36.4#



#38
 Carbon Tetrachloride
 Concen: 6.616 ug/l
 RT: 5.62 min Scan# 744
 Delta R.T. -0.13 min
 Lab File: VX019579.D
 Acq: 24 Nov 2020 03:08

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.1	75.9	113.9#
121	0.0	24.0	36.0#





#43

Isopropyl Acetate

Concen: 7.419 ug/l

RT: 6.41 min Scan# 873

Delta R.T. -0.01 min

Lab File: VX019579.D

Acq: 24 Nov 2020 03:08

Instrument :

MSVOA_X

ClientSampleId :

PB133157ZHE#09

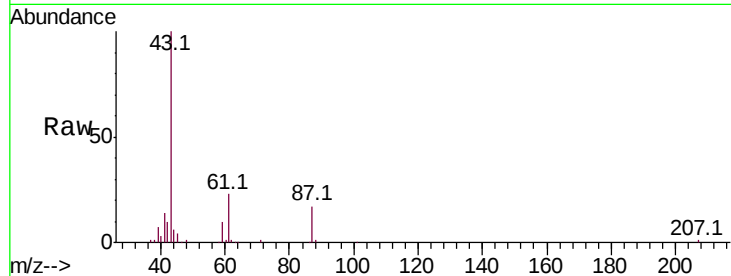
Tot Ion: 43 Resp: 59145

Ion Ratio Lower Upper

43 100

61 22.2 18.2 27.2

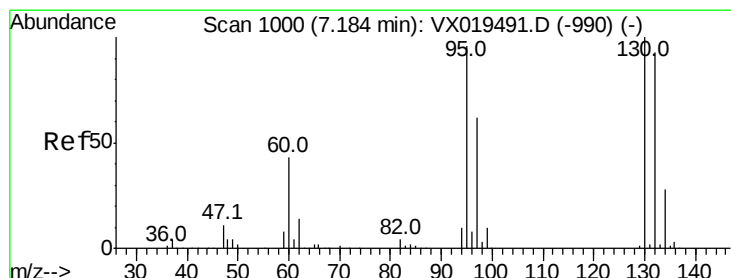
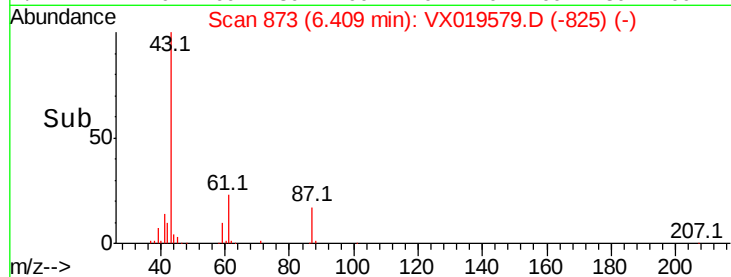
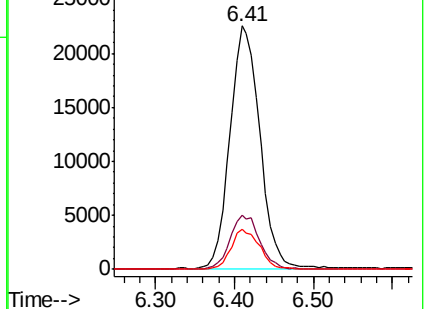
87 15.7 12.6 18.8



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



#44

Trichloroethene

Concen: 0.710 ug/l

RT: 7.19 min Scan# 1001

Delta R.T. 0.01 min

Lab File: VX019579.D

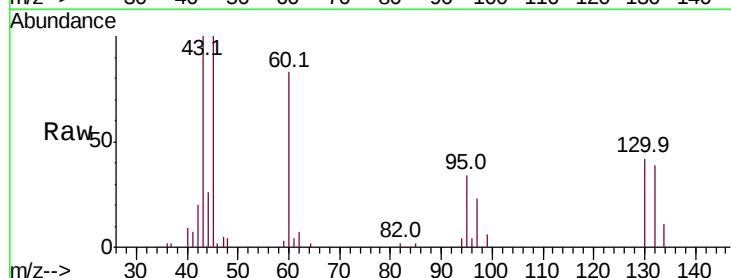
Acq: 24 Nov 2020 03:08

Tgt Ion: 130 Resp: 2885

Ion Ratio Lower Upper

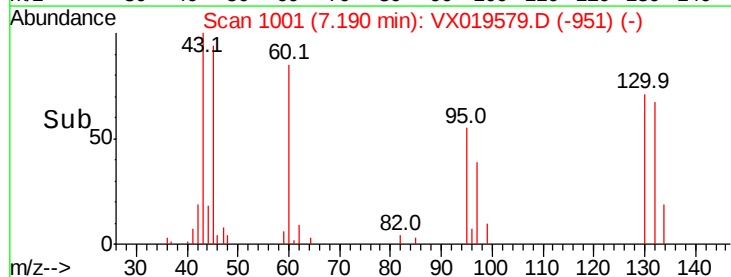
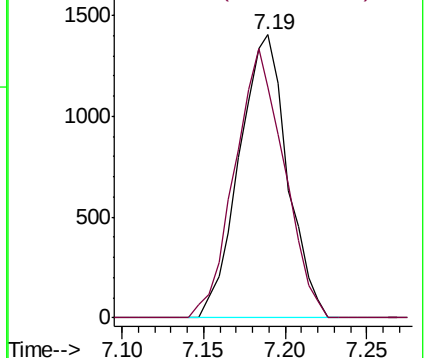
130 100

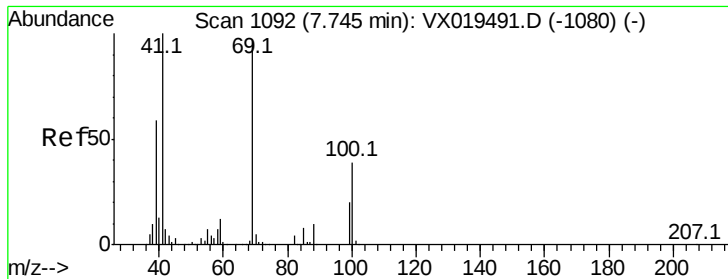
95 81.8 0.0 191.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

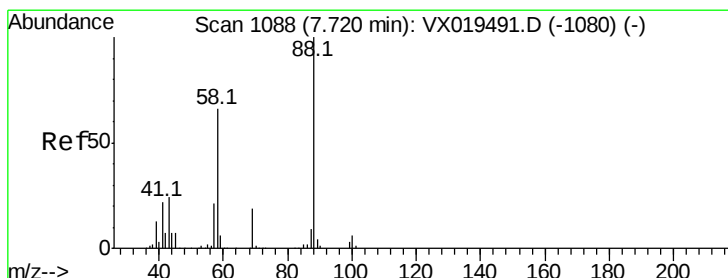
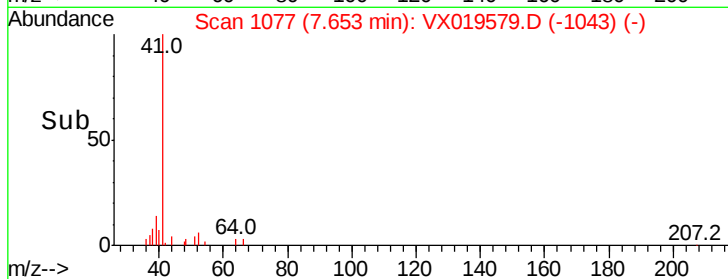
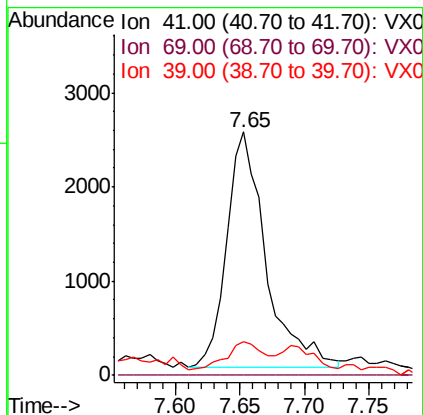
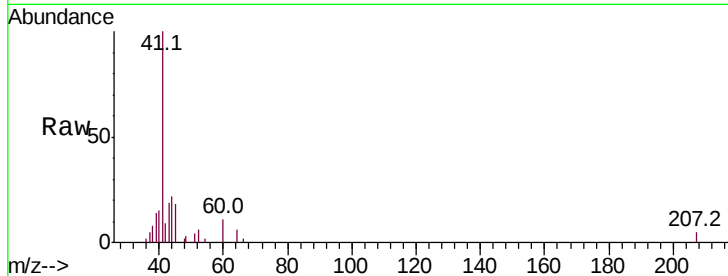




#48
Methvl methacrylate
Concen: 1.433 ug/l
RT: 7.65 min Scan# 1077
Delta R.T. -0.09 min
Lab File: VX019579.D
Acq: 24 Nov 2020 03:08

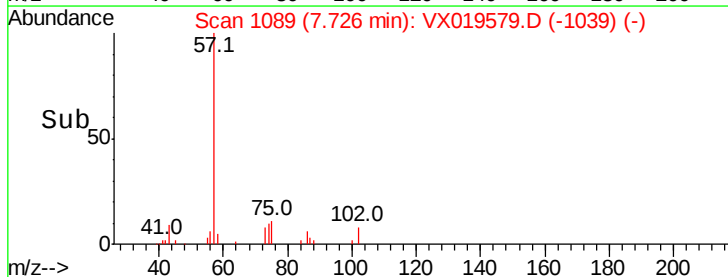
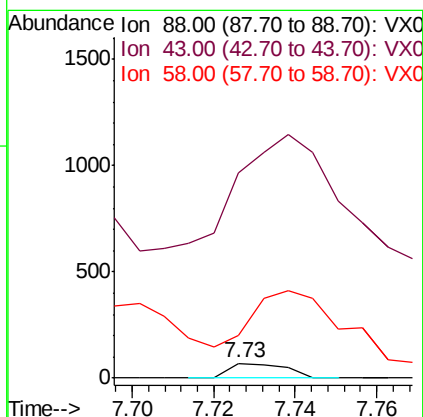
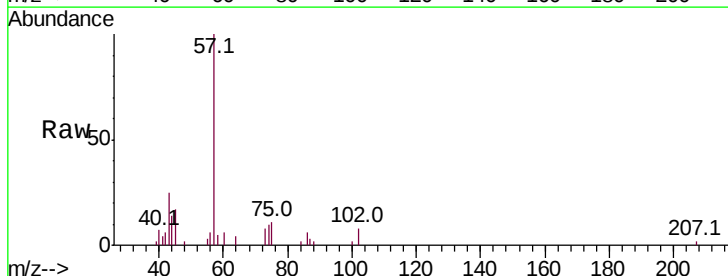
Instrument :
MSVOA_X
ClientSampleId :
PB133157ZHE#09

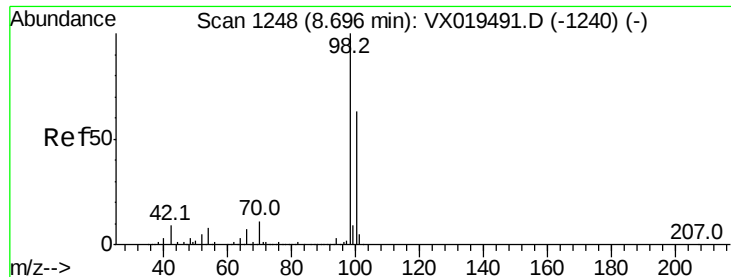
Tot Ion: 41 Resp: 5350
Ion Ratio Lower Upper
41 100
69 0.0 77.0 115.6#
39 0.0 45.6 68.4#



#49
1,4-Dioxane
Concen: 0.802 ug/l
RT: 7.73 min Scan# 1089
Delta R.T. 0.01 min
Lab File: VX019579.D
Acq: 24 Nov 2020 03:08

Tgt Ion: 88 Resp: 68
Ion Ratio Lower Upper
88 100
43 0.0 23.8 35.6#
58 1073.5 54.2 81.2#





#50

Toluene-d8

Concen: 48.572 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX019579.D

Acq: 24 Nov 2020 03:08

Instrument :

MSVOA_X

ClientSampleId :

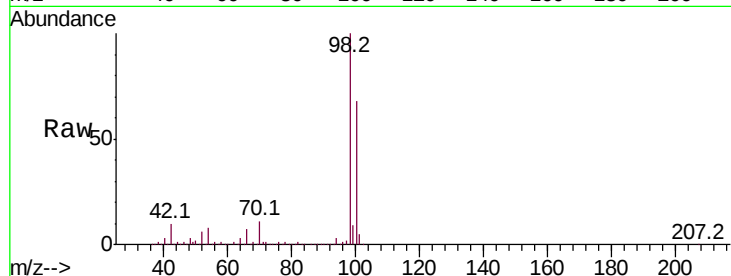
PB133157ZHE#09

Tot Ion: 98 Resp: 638403

Ion Ratio Lower Upper

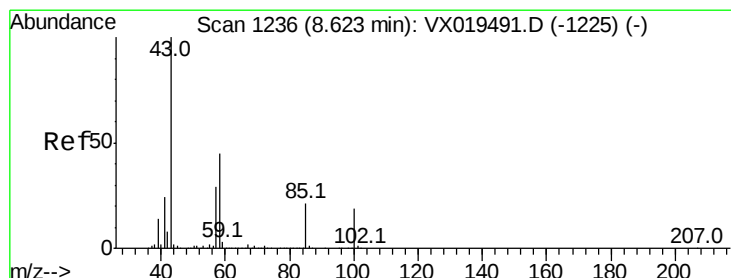
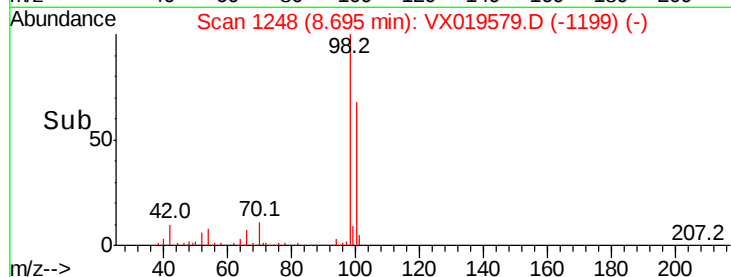
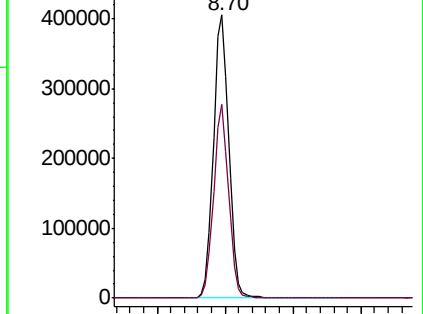
98 100

100 66.6 52.4 78.6



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: 18.318 ug/l

RT: 8.59 min Scan# 1231

Delta R.T. -0.03 min

Lab File: VX019579.D

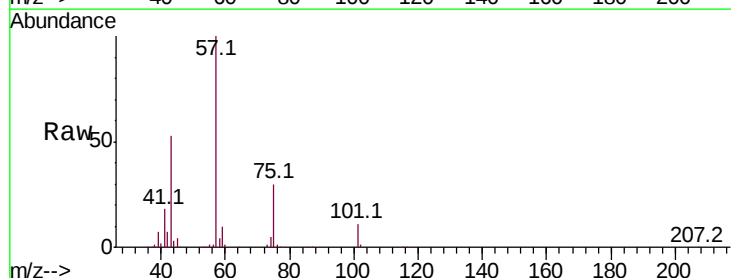
Acq: 24 Nov 2020 03:08

Tgt Ion: 43 Resp: 85157

Ion Ratio Lower Upper

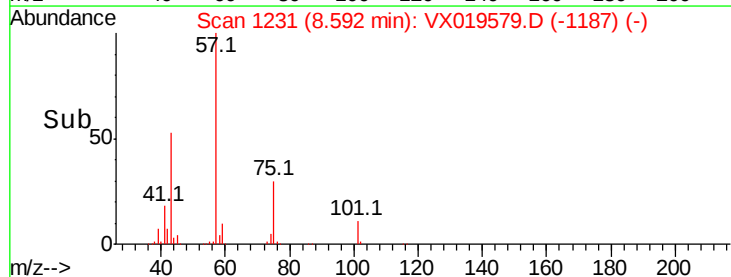
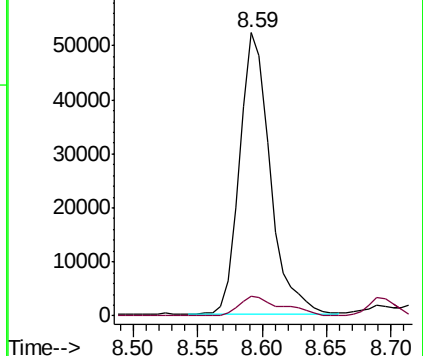
43 100

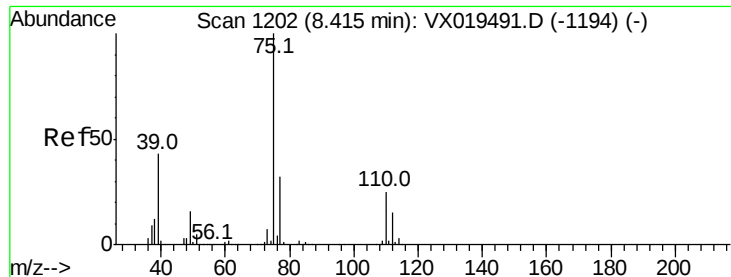
58 10.0 35.1 52.7#



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: 7.584 ug/l

RT: 8.59 min Scan# 1231

Delta R.T. 0.18 min

Lab File: VX019579.D

Acq: 24 Nov 2020 03:08

Instrument :

MSVOA_X

ClientSampleId :

PB133157ZHE#09

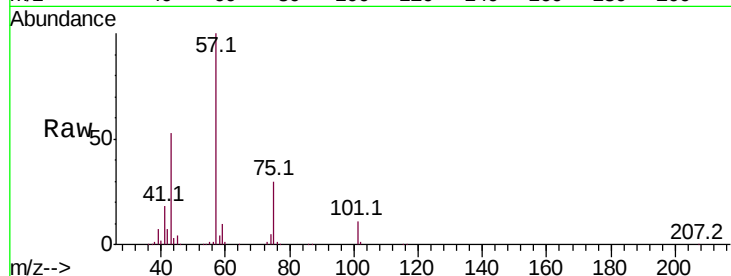
Tot Ion: 75 Resp: 46128

Ion Ratio Lower Upper

75 100

77 0.5 25.8 38.6#

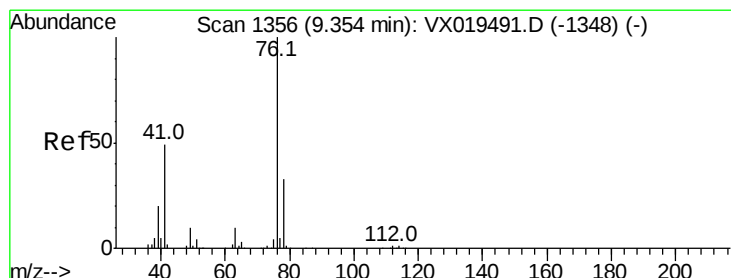
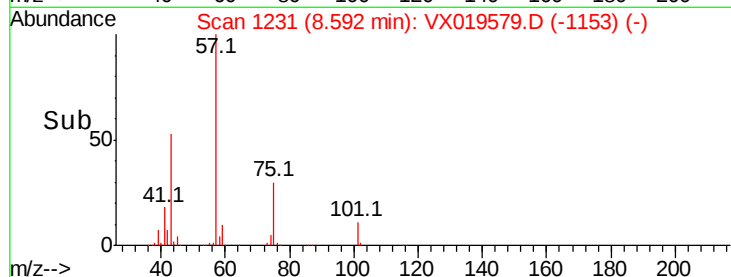
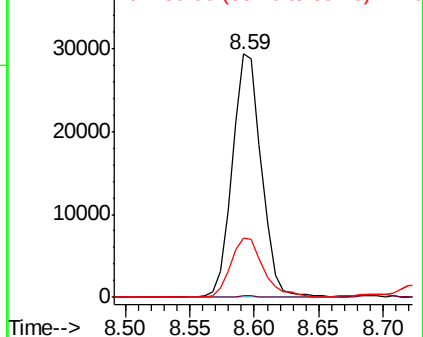
39 24.3 34.6 51.8#



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



#57

1,3-Dichloropropane

Concen: 2.572 ug/l

RT: 9.52 min Scan# 1384

Delta R.T. 0.17 min

Lab File: VX019579.D

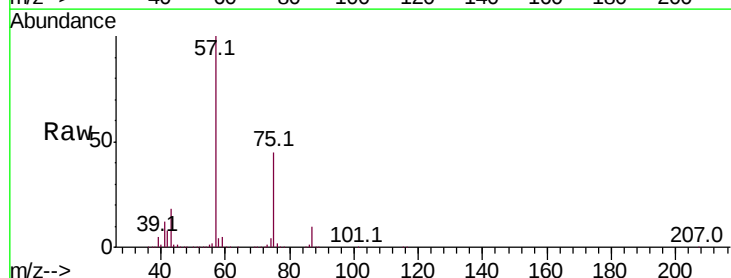
Acq: 24 Nov 2020 03:08

Tgt Ion: 76 Resp: 16652

Ion Ratio Lower Upper

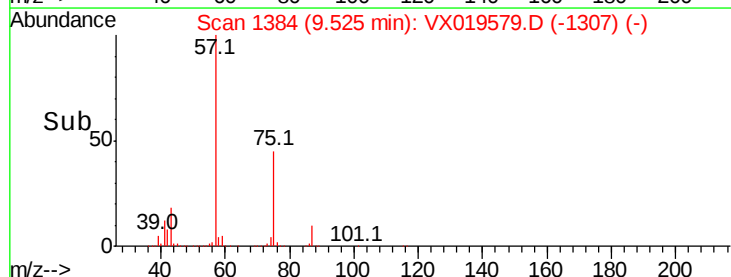
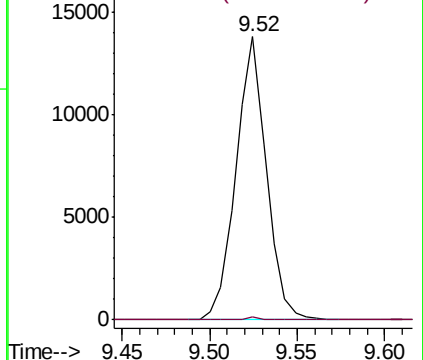
76 100

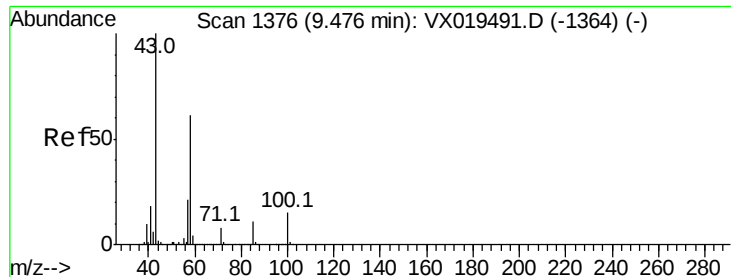
78 0.3 25.7 38.5#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

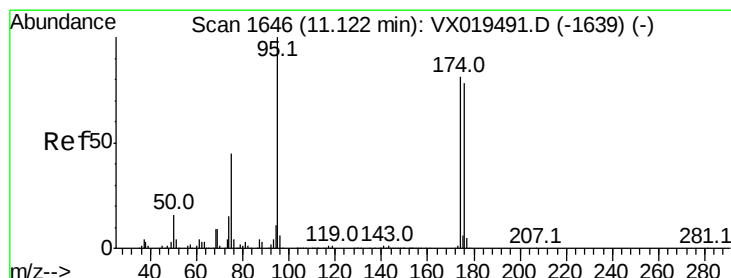
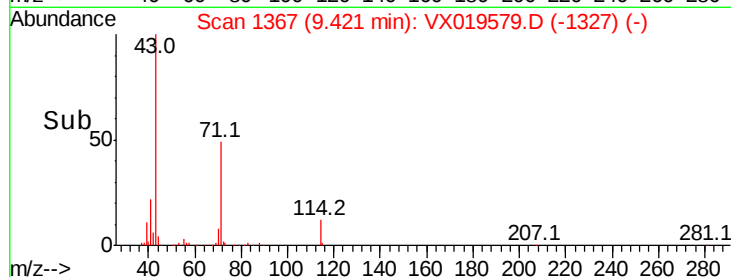
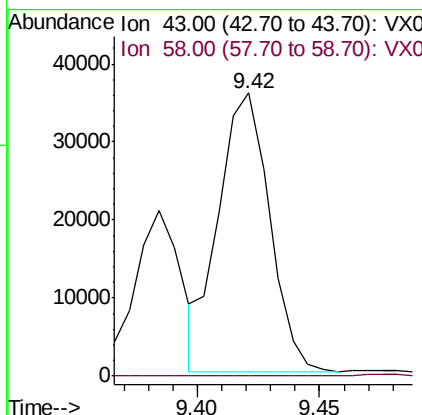
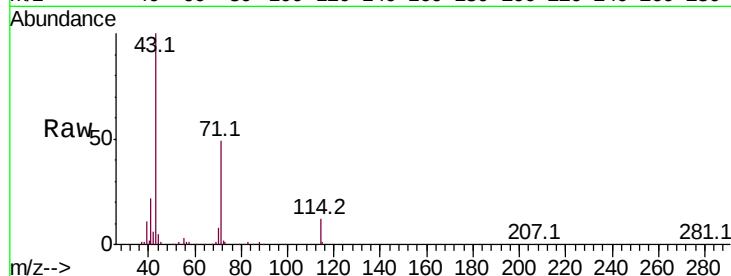




#59
2-Hexanone
Concen: 14.727 ug/l
RT: 9.42 min Scan# 1367
Delta R.T. -0.06 min
Lab File: VX019579.D
Acq: 24 Nov 2020 03:08

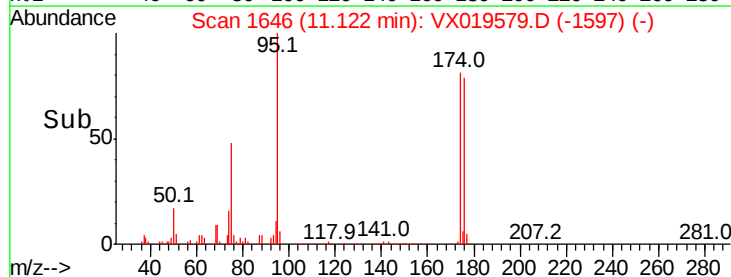
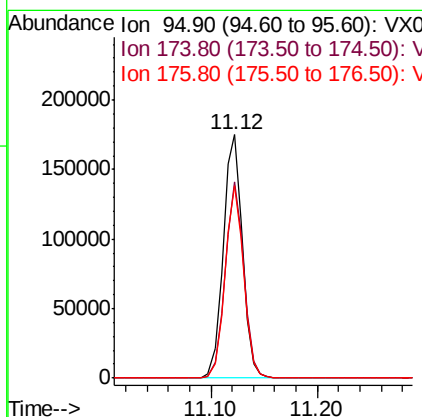
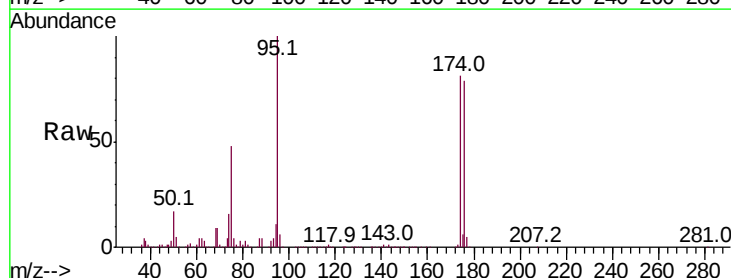
Instrument :
MSVOA_X
ClientSampleId :
PB133157ZHE#09

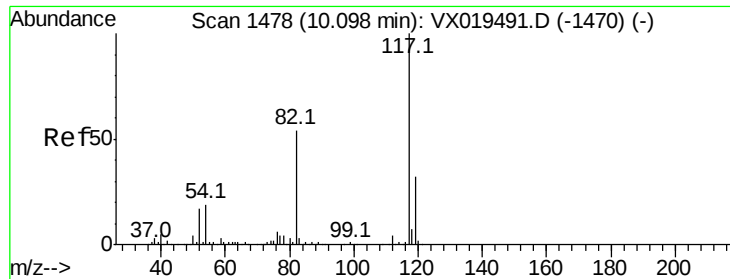
Tot Ion: 43 Resp: 51923
Ion Ratio Lower Upper
43 100
58 0.0 30.6 91.6#



#62
4-Bromofluorobenzene
Concen: 46.570 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. -0.00 min
Lab File: VX019579.D
Acq: 24 Nov 2020 03:08

Tgt Ion: 95 Resp: 220225
Ion Ratio Lower Upper
95 100
174 78.6 0.0 156.2
176 76.8 0.0 151.4

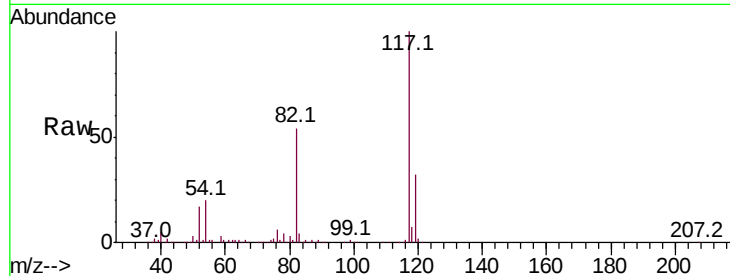




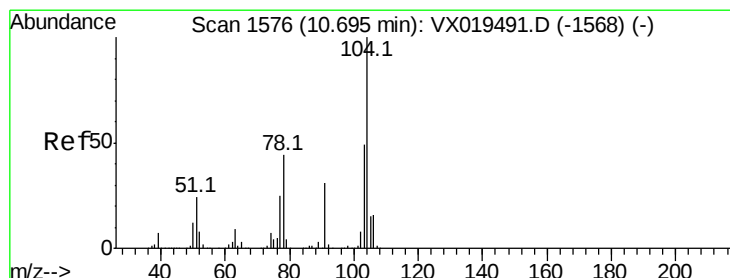
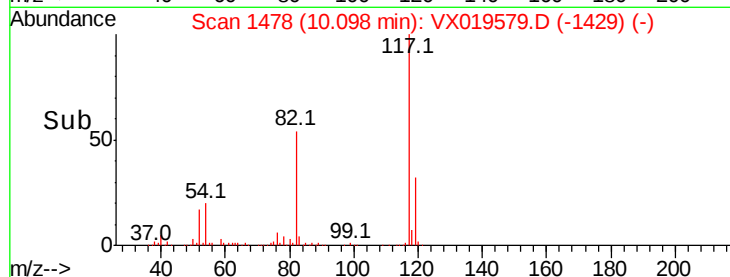
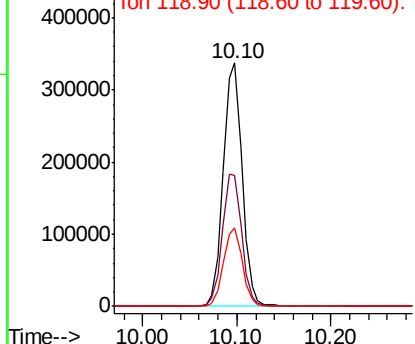
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX019579.D
Acq: 24 Nov 2020 03:08

Instrument :
MSVOA_X
ClientSampleId :
PB133157ZHE#09

Tot Ion:117 Resp: 471044
Ion Ratio Lower Upper
117 100
82 53.8 43.0 64.4
119 32.0 25.6 38.4

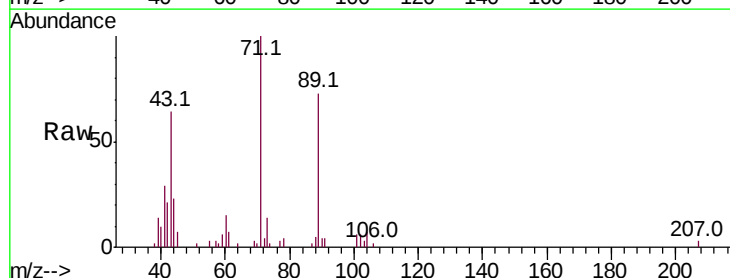


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

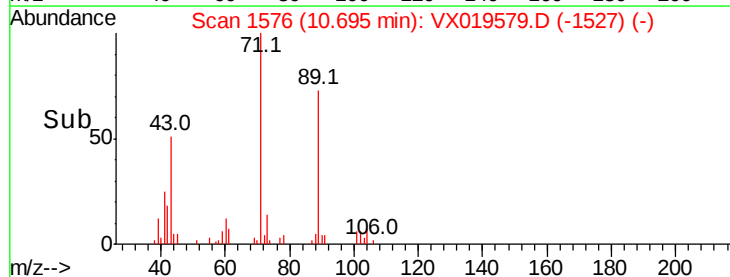
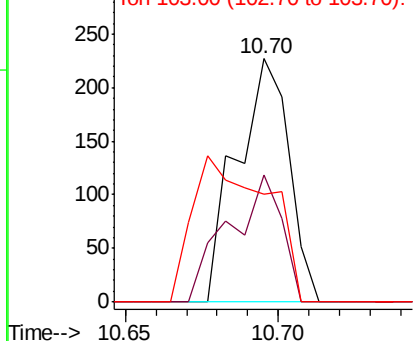


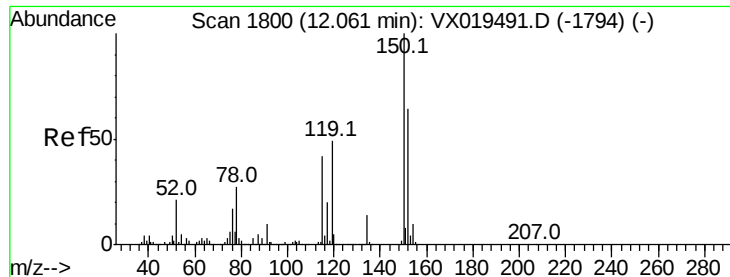
#70
Styrene
Concen: 1.669 ug/l
RT: 10.70 min Scan# 1576
Delta R.T. 0.00 min
Lab File: VX019579.D
Acq: 24 Nov 2020 03:08

Tgt Ion:104 Resp: 269
Ion Ratio Lower Upper
104 100
78 52.8 39.5 59.3
103 86.2 43.6 65.4#



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VX0
Ion 103.00 (102.70 to 103.70): 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: VX019579.D

Acq: 24 Nov 2020 03:08

Instrument :

MSVOA_X

ClientSampleId :

PB133157ZHE#09

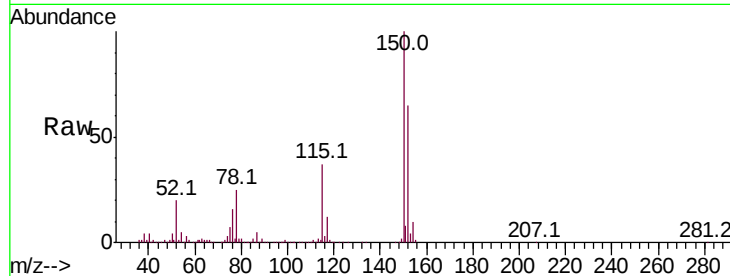
Tot Ion:152 Resp: 206680

Ion Ratio Lower Upper

152 100

115 59.6 41.8 125.4

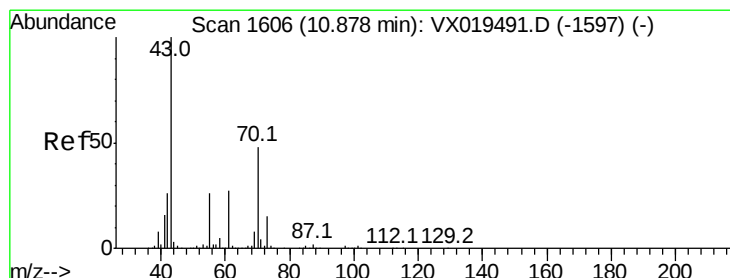
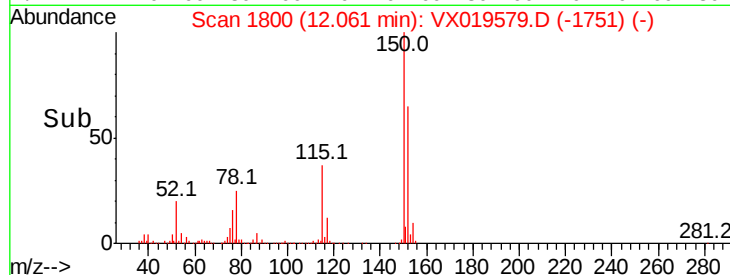
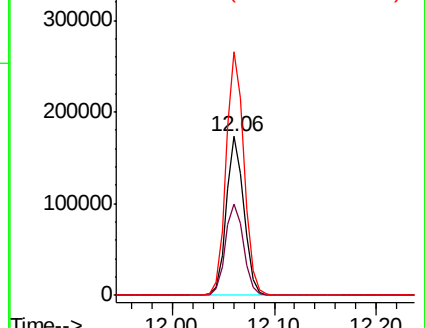
150 156.0 0.0 348.2



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-ethyl acetate

Concen: 0.443 ug/l

RT: 10.81 min Scan# 1595

Delta R.T. -0.07 min

Lab File: VX019579.D

Acq: 24 Nov 2020 03:08

Tgt Ion: 43 Resp: 2371

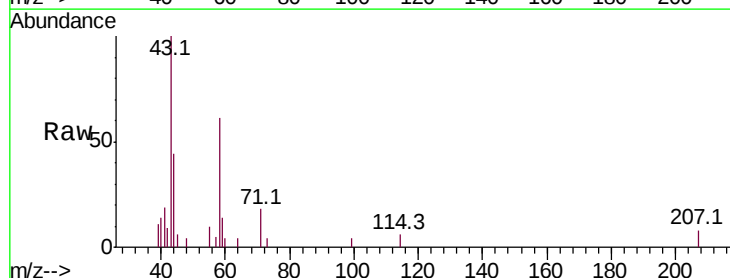
Ion Ratio Lower Upper

43 100

70 0.0 39.7 59.5#

55 14.6 21.8 32.6#

61 0.0 22.2 33.4#

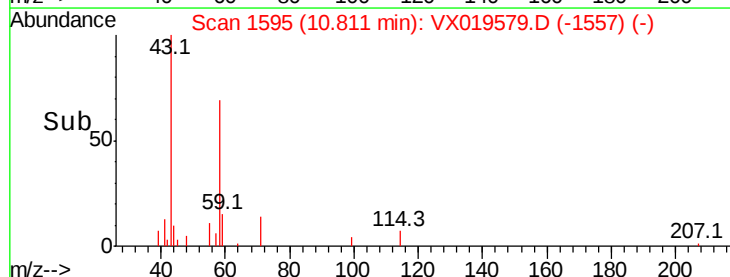
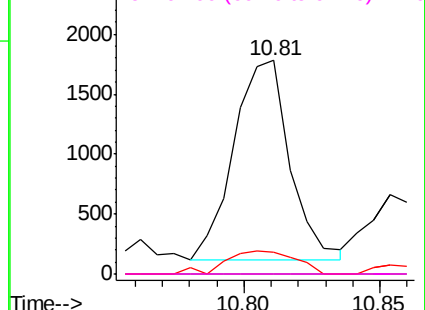


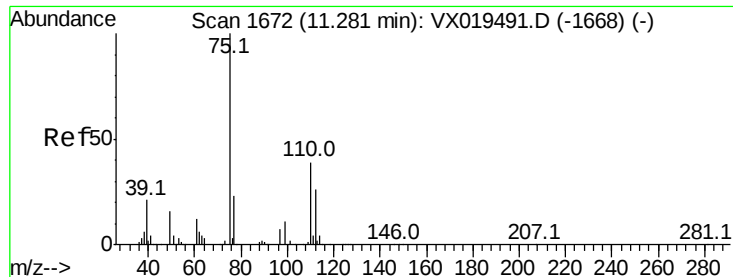
Abundance Ion 43.00 (42.70 to 43.70): VX0

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: 24.051 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX019579.D

Acq: 24 Nov 2020 03:08

Instrument :

MSVOA_X

ClientSampleId :

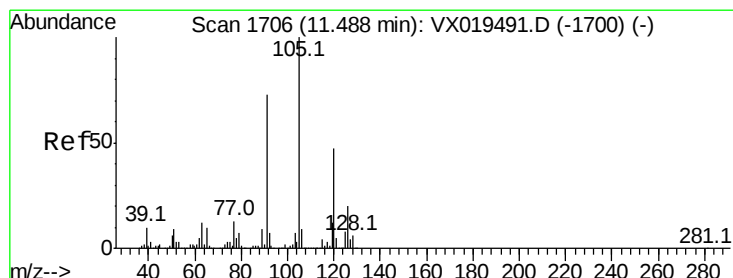
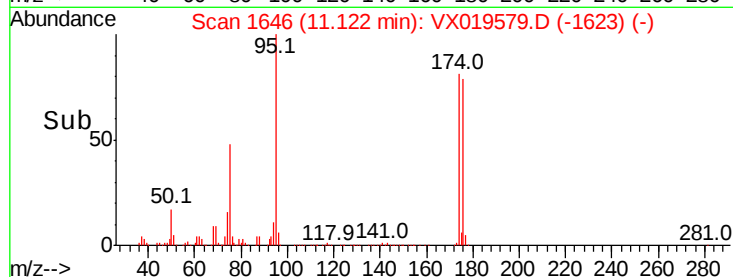
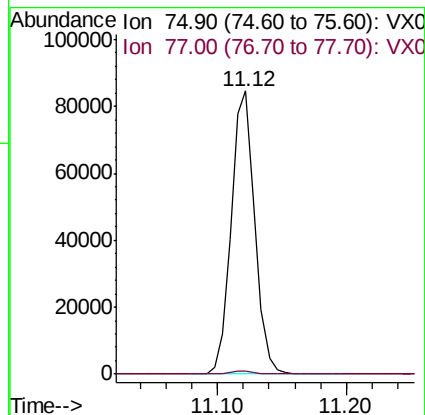
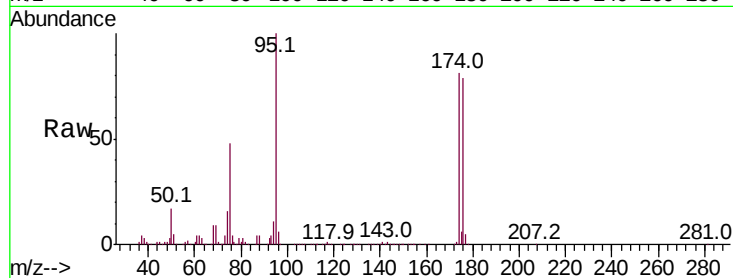
PB133157ZHE#09

Tot Ion: 75 Resp: 108479

Ion Ratio Lower Upper

75 100

77 1.1 20.0 60.0#



#80

1,3,5-Trimethylbenzene

Concen: 0.480 ug/l

RT: 11.49 min Scan# 1707

Delta R.T. 0.01 min

Lab File: VX019579.D

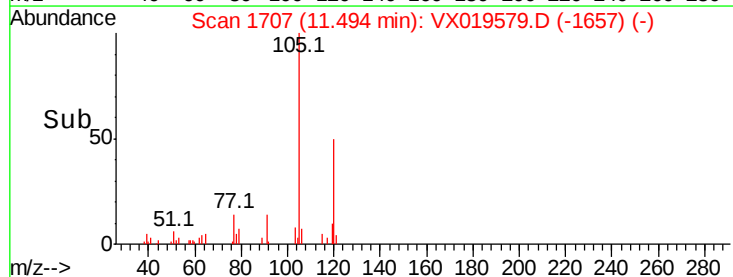
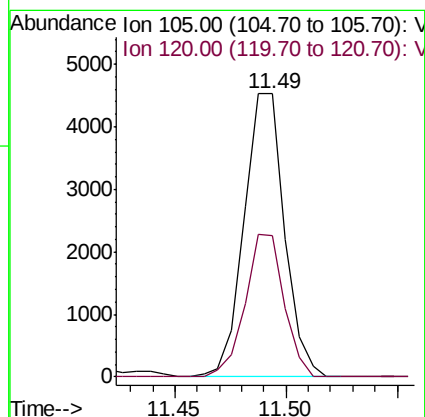
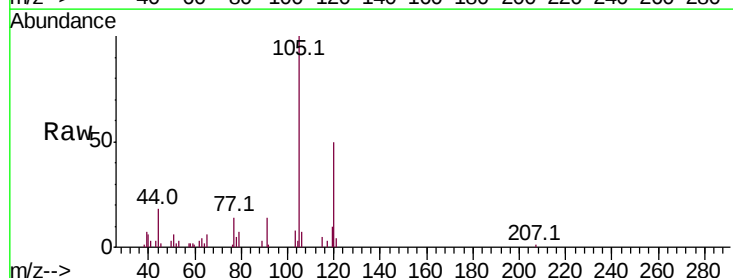
Acq: 24 Nov 2020 03:08

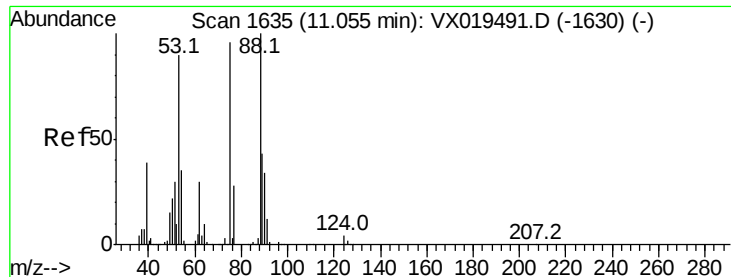
Tgt Ion: 105 Resp: 5752

Ion Ratio Lower Upper

105 100

120 48.3 24.1 72.3

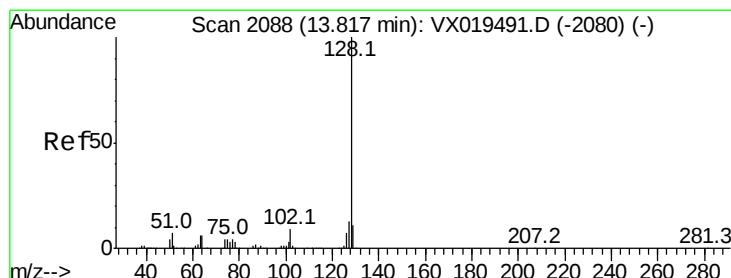
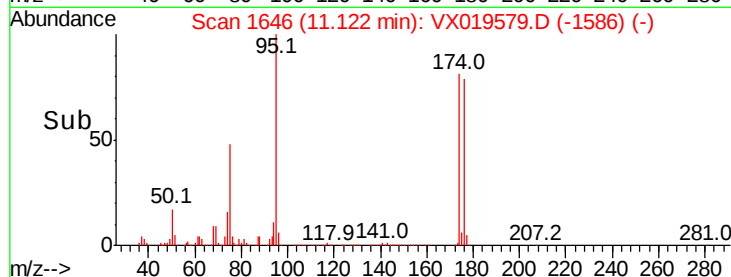
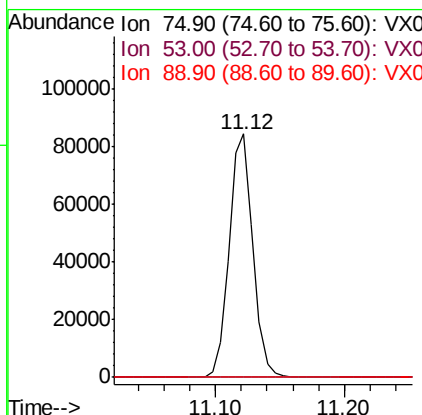
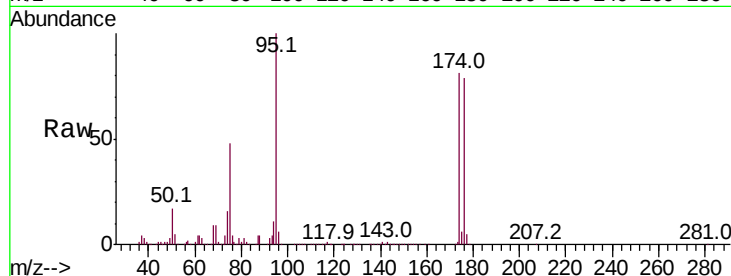




#81
trans-1,4-Dichloro-2-butene
Concen: 63.692 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. 0.07 min
Lab File: VX019579.D
Acq: 24 Nov 2020 03:08

Instrument :
MSVOA_X
ClientSampleId :
PB133157ZHE#09

Tot Ion: 75 Resp: 108479
Ion Ratio Lower Upper
75 100
53 0.0 73.9 110.9#
89 0.0 37.3 55.9#



#95
Naphthalene
Concen: 2.194 ug/l
RT: 13.82 min Scan# 2088
Delta R.T. 0.00 min
Lab File: VX019579.D
Acq: 24 Nov 2020 03:08

Tgt Ion: 128 Resp: 256
Ion Ratio Lower Upper
128 100
127 0.0 10.3 15.5#
129 0.0 8.7 13.1#

