

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX082620\
 Data File : VX018072.D
 Acq On : 26 Aug 2020 13:16
 Operator : JC/SP
 Sample : ZHE#03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB131195ZHE#03

Quant Time: Aug 27 04:03:35 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X082120W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 21 03:03:56 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	459924	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	783931	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	718911	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	355868	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	320112	50.14	ug/l	0.00
Spiked Amount			Recovery	=	100.28%	
35) Dibromofluoromethane	5.46	113	253251	47.43	ug/l	0.00
Spiked Amount			Recovery	=	94.86%	
50) Toluene-d8	8.70	98	961523	48.35	ug/l	0.00
Spiked Amount			Recovery	=	96.70%	
62) 4-Bromofluorobenzene	11.12	95	357074	45.64	ug/l	0.00
Spiked Amount			Recovery	=	91.28%	

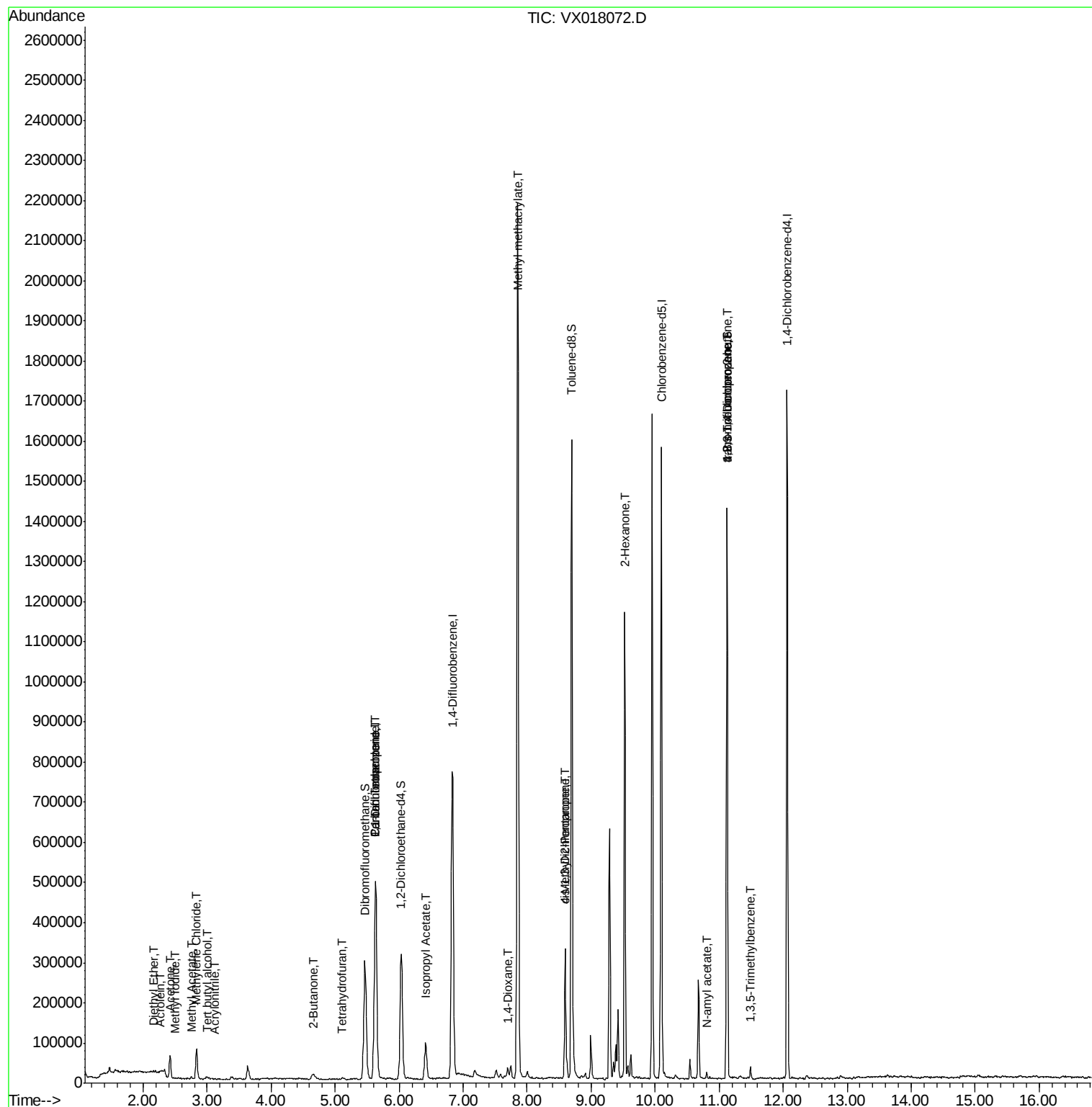
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	2.17	74	1295	0.477	ug/l	72
10) Methyl Iodide	2.49	142	452	5.374	ug/l #	51
11) Tert butyl alcohol	3.00	59	5687	4.581	ug/l #	91
13) Acrolein	2.26	56	660	1.282	ug/l #	61
15) Acrylonitrile	3.12	53	707	0.251	ug/l #	65
16) Acetone	2.42	43	59884	24.070	ug/l	90
18) Methyl Acetate	2.76	43	8307	1.384	ug/l	99
20) Methylene Chloride	2.83	84	35404	5.930	ug/l	93
25) 2-Butanone	4.65	43	10883	2.662	ug/l	91
29) Tetrahydrofuran	5.10	42	1263	0.485	ug/l #	36
36) 1,1-Dichloropropene	5.63	75	34057	4.710	ug/l #	54
38) Carbon Tetrachloride	5.63	117	48845	5.994	ug/l #	16
43) Isopropyl Acetate	6.42	43	123112	9.076	ug/l	99
48) Methyl methacrylate	7.85	41	196747	29.138	ug/l #	45
49) 1,4-Dioxane	7.70	88	160	1.308	ug/l #	1
51) 4-Methyl-2-Pentanone	8.59	43	121544	14.506	ug/l #	46
54) cis-1,3-Dichloropropene	8.59	75	50896	5.392	ug/l #	59
59) 2-Hexanone	9.52	43	132506	20.798	ug/l #	52
74) N-amyl acetate	10.80	43	6955	0.624	ug/l #	53
76) 1,2,3-Trichloropropane	11.12	75	181394	22.914	ug/l #	36
80) 1,3,5-Trimethylbenzene	11.49	105	11316	0.587	ug/l	98
81) trans-1,4-Dichloro-2-buten	11.12	75	181394	61.886	ug/l #	12

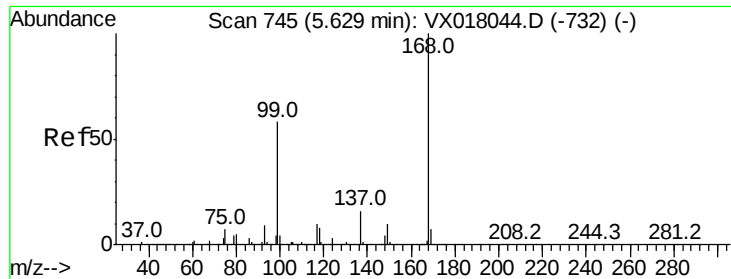
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X082120W.M
Quant Title : SW846 8260
QLast Update : Fri Aug 21 03:03:56 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: VX018072.D

Acq: 26 Aug 2020 13:16

Instrument :

MSVOA_X

ClientSampleId :

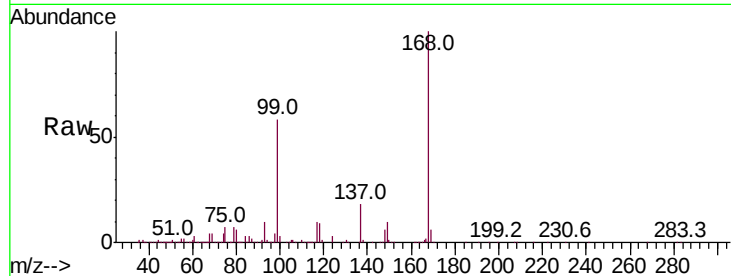
PB131195ZHE#03

Tot Ion:168 Resp: 459924

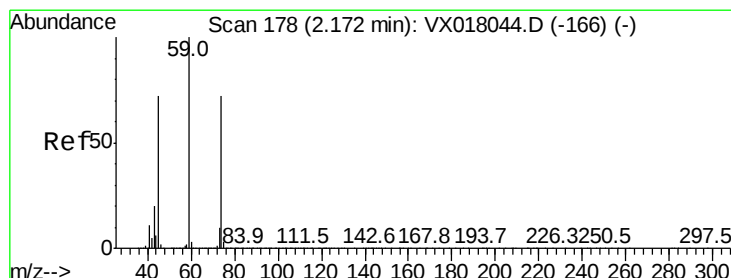
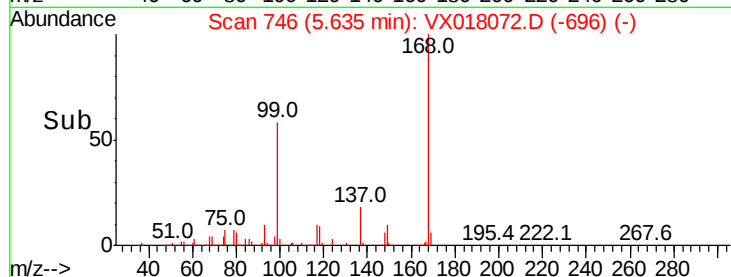
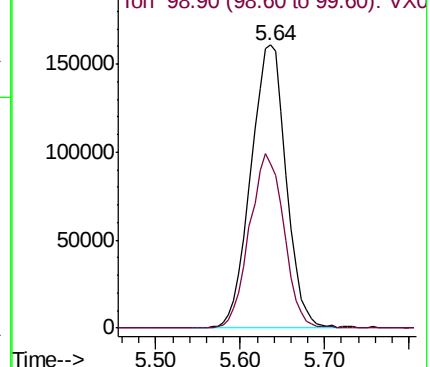
Ion Ratio Lower Upper

168 100

99 57.9 46.3 69.5



Abundance Ion 167.90 (167.60 to 168.60): V



#8

Diethyl Ether

Concen: 0.477 ug/l

RT: 2.17 min Scan# 177

Delta R.T. -0.01 min

Lab File: VX018072.D

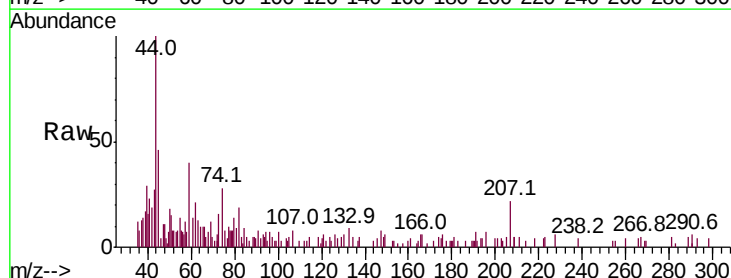
Acq: 26 Aug 2020 13:16

Tgt Ion: 74 Resp: 1295

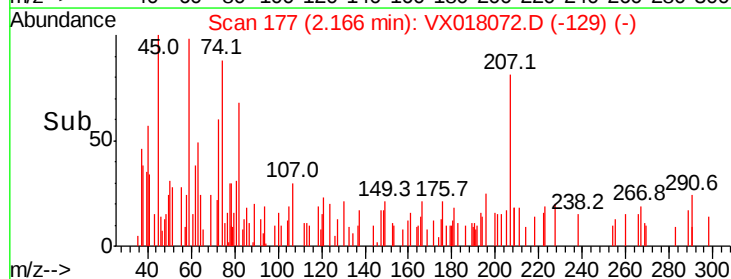
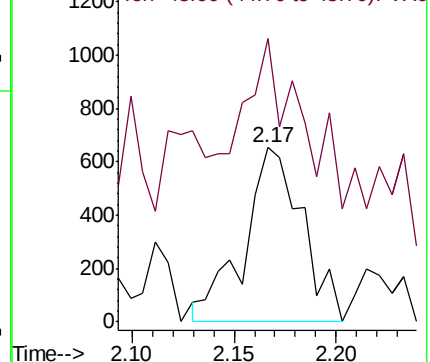
Ion Ratio Lower Upper

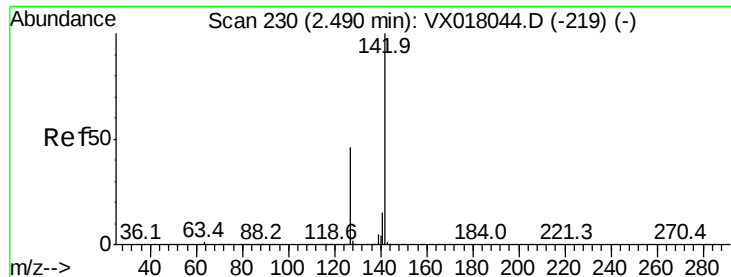
74 100

45 129.4 50.7 152.3



Abundance Ion 74.00 (73.70 to 74.70): VX0

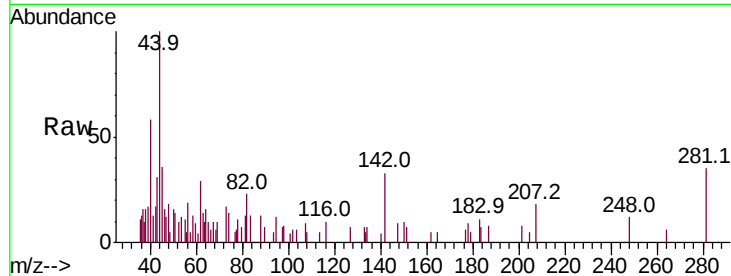




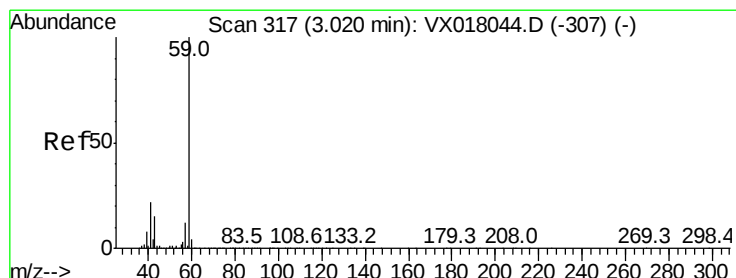
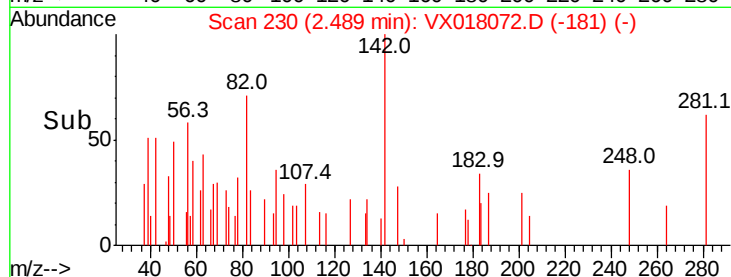
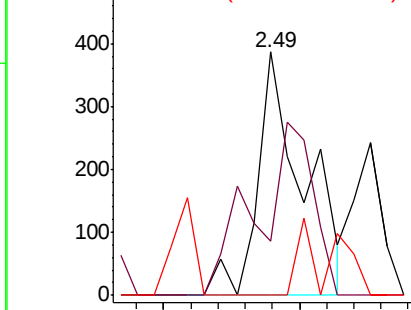
#10
Methvl Iodide
Concen: 5.374 ug/l
RT: 2.49 min Scan# 230
Delta R.T. 0.00 min
Lab File: VX018072.D
Acq: 26 Aug 2020 13:16

Instrument :
MSVOA_X
ClientSampleId :
PB131195ZHE#03

Tot Ion	Ratio	Lower	Upper
142	100		
127	86.5	37.0	55.6#
141	10.0	11.5	17.3#

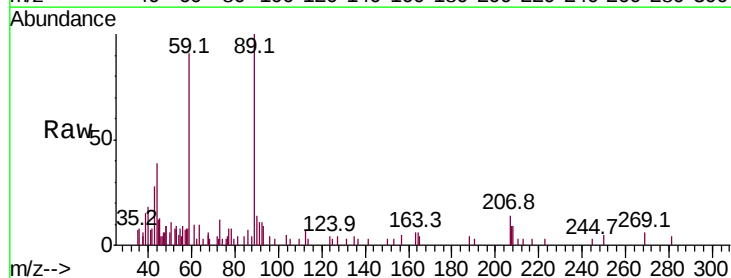


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

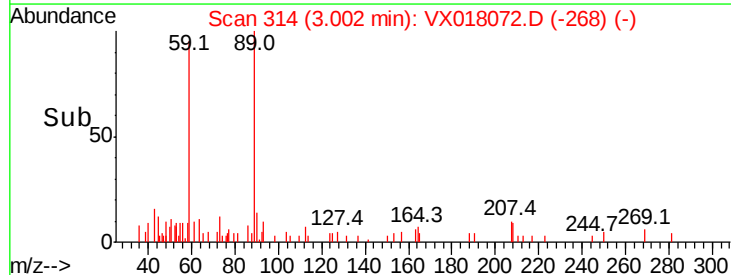
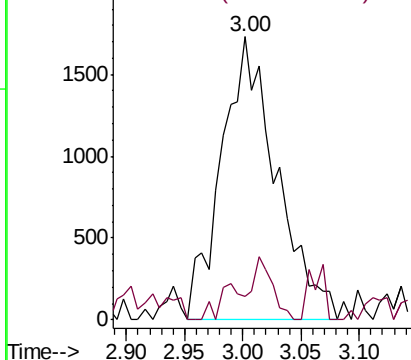


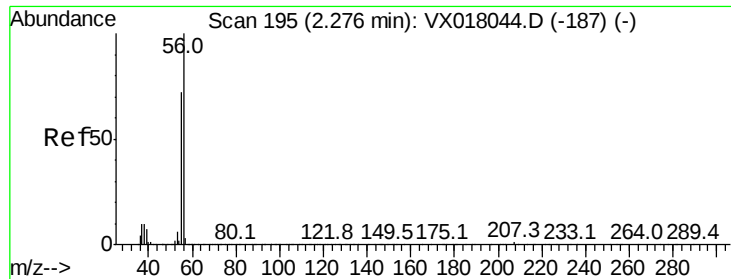
#11
Tert butyl alcohol
Concen: 4.581 ug/l
RT: 3.00 min Scan# 314
Delta R.T. -0.02 min
Lab File: VX018072.D
Acq: 26 Aug 2020 13:16

Tgt Ion	Ratio	Lower	Upper
59	100		
57	7.8	8.9	13.3#



Abundance Ion 59.00 (58.70 to 59.70): VX0
Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 1.282 ug/l

RT: 2.26 min Scan# 192

Delta R.T. -0.02 min

Lab File: VX018072.D

Acq: 26 Aug 2020 13:16

Instrument :

MSVOA_X

ClientSampleId :

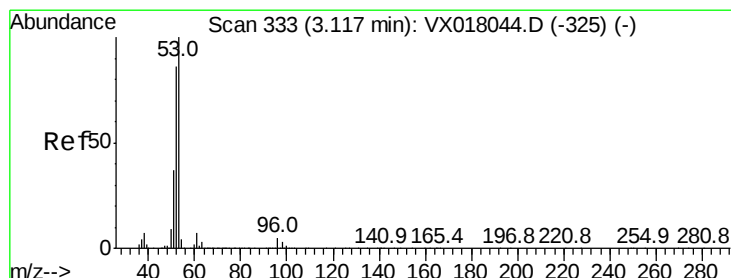
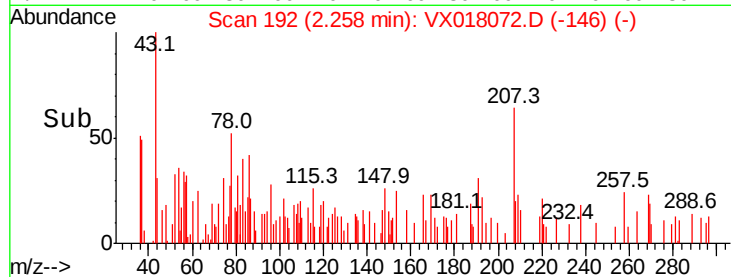
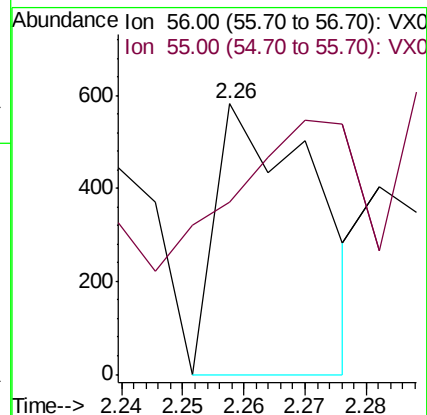
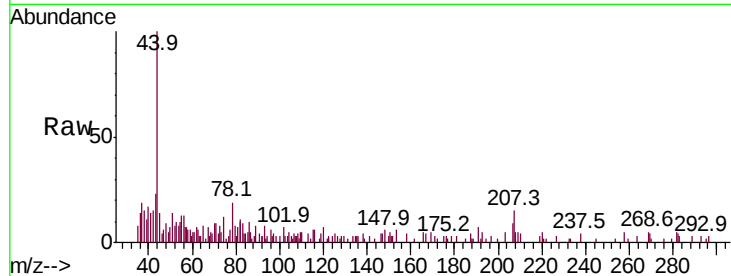
PB131195ZHE#03

Tot Ion: 56 Resp: 660

Ion Ratio Lower Upper

56 100

55 103.3 57.0 85.6#



#15

Acrylonitrile

Concen: 0.251 ug/l

RT: 3.12 min Scan# 334

Delta R.T. 0.01 min

Lab File: VX018072.D

Acq: 26 Aug 2020 13:16

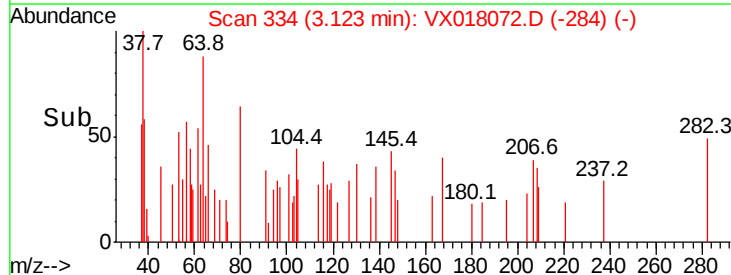
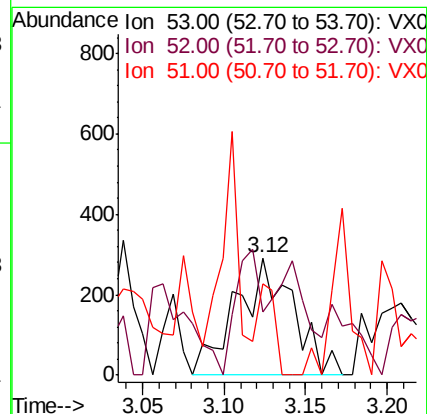
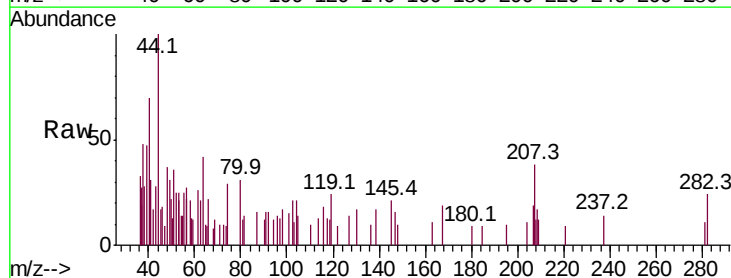
Tgt Ion: 53 Resp: 707

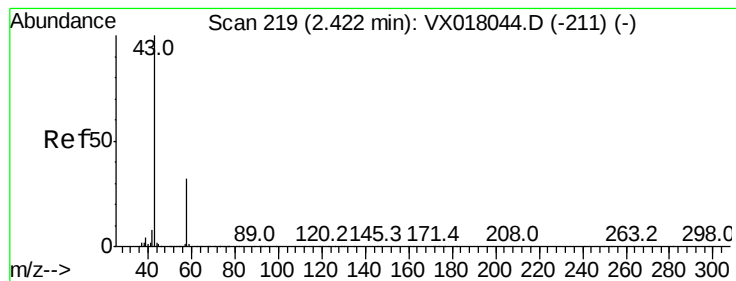
Ion Ratio Lower Upper

53 100

52 46.8 66.9 100.3#

51 48.9 28.7 43.1#





#16

Acetone

Concen: 24.070 ug/l

RT: 2.42 min Scan# 219

Delta R.T. -0.00 min

Lab File: VX018072.D

Acq: 26 Aug 2020 13:16

Instrument :

MSVOA_X

ClientSampleId :

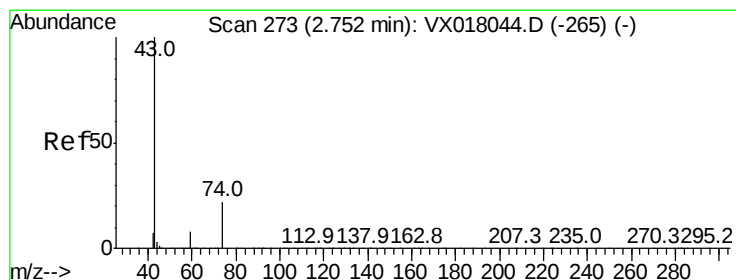
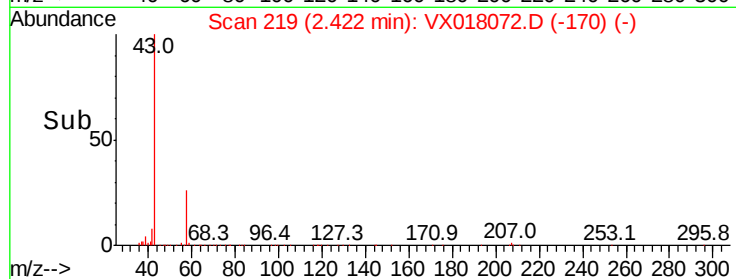
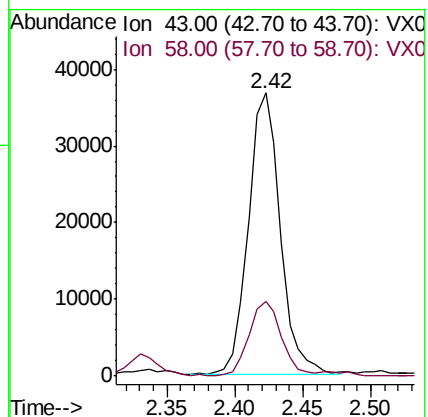
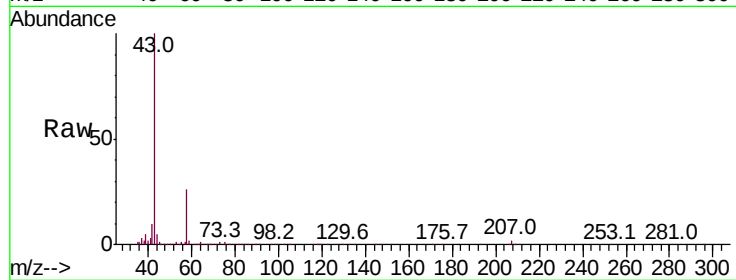
PB131195ZHE#03

Tot Ion: 43 Resp: 59884

Ion Ratio Lower Upper

43 100

58 26.2 25.5 38.3



#18

Methyl Acetate

Concen: 1.384 ug/l

RT: 2.76 min Scan# 274

Delta R.T. 0.01 min

Lab File: VX018072.D

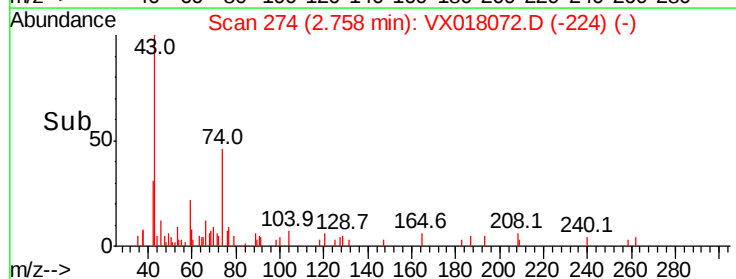
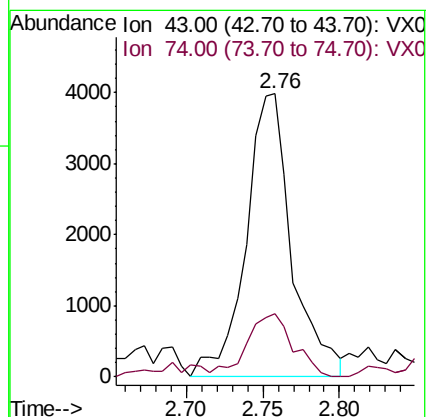
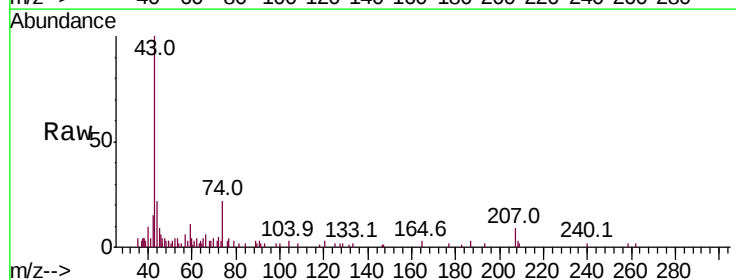
Acq: 26 Aug 2020 13:16

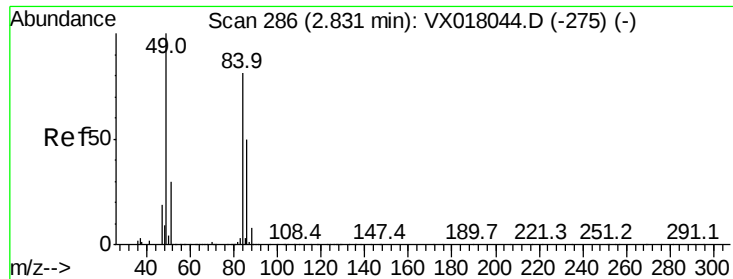
Tgt Ion: 43 Resp: 8307

Ion Ratio Lower Upper

43 100

74 22.5 18.2 27.4

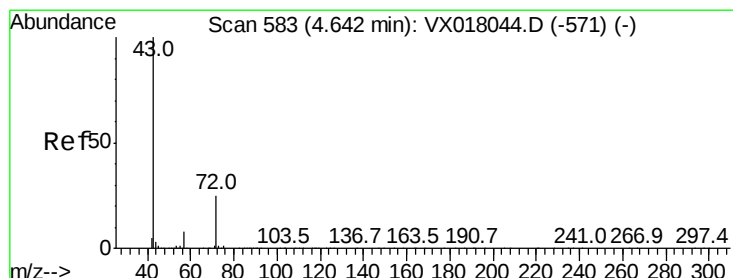
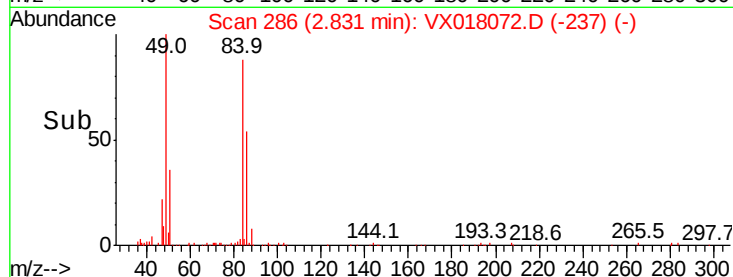
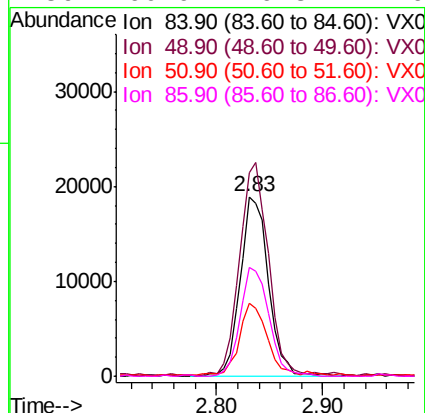
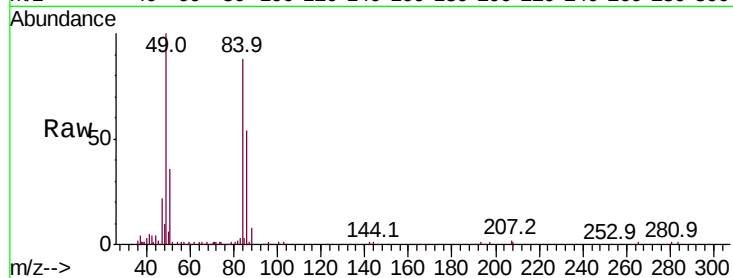




#20
Methvlene Chloride
Concen: 5.930 ug/l
RT: 2.83 min Scan# 286
Delta R.T. 0.00 min
Lab File: VX018072.D
Acq: 26 Aug 2020 13:16

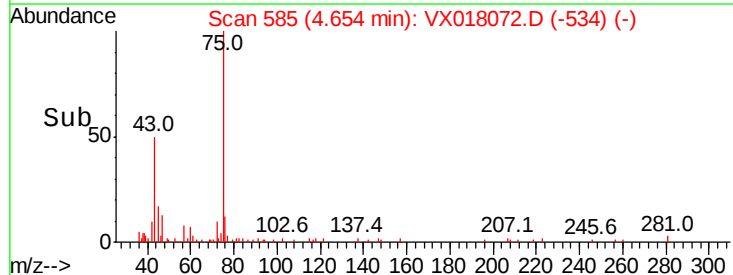
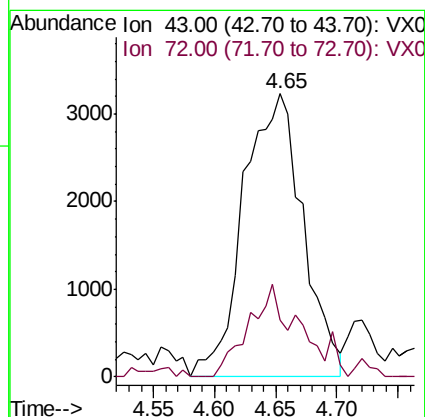
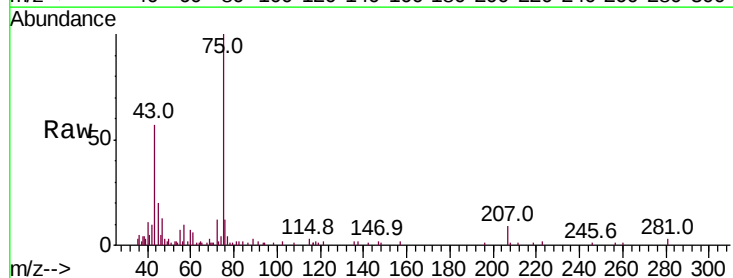
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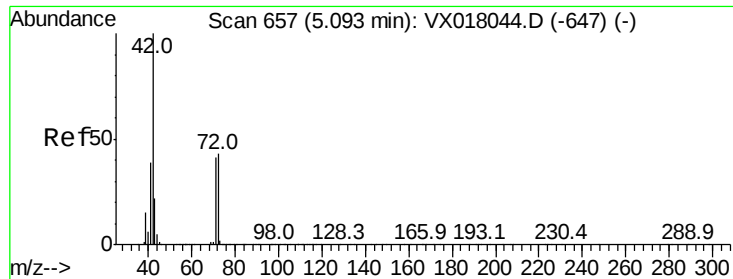
Tot Ion:	84	Resp:	35404
Ion	Ratio	Lower	Upper
84	100		
49	112.6	98.6	148.0
51	40.4	29.6	44.4
86	60.9	49.8	74.6



#25
2-Butanone
Concen: 2.662 ug/l
RT: 4.65 min Scan# 585
Delta R.T. 0.01 min
Lab File: VX018072.D
Acq: 26 Aug 2020 13:16

Tgt Ion:	43	Resp:	10883
Ion	Ratio	Lower	Upper
43	100		
72	20.2	19.8	29.6





#29

Tetrahydrofuran

Concen: 0.485 ug/l

RT: 5.10 min Scan# 658

Delta R.T. 0.01 min

Lab File: VX018072.D

Acq: 26 Aug 2020 13:16

Instrument :

MSVOA_X

ClientSampleId :

PB131195ZHE#03

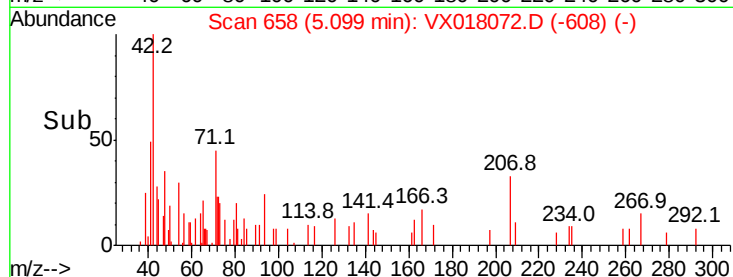
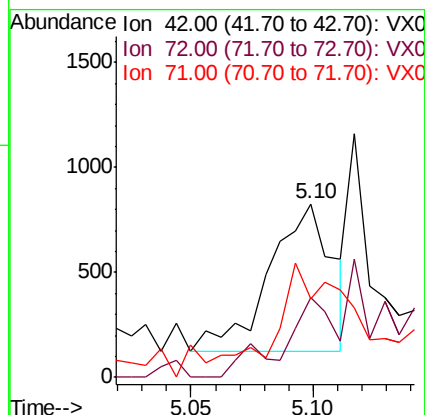
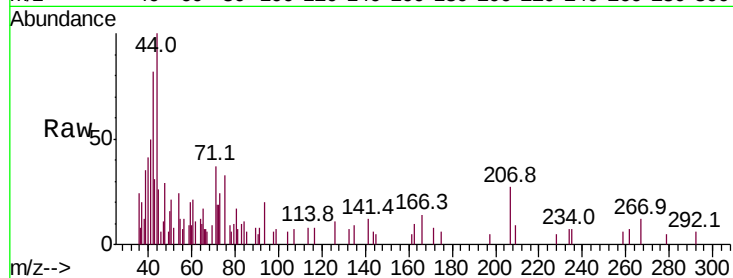
Tot Ion: 42 Resp: 1263

Ion Ratio Lower Upper

42 100

72 31.8 34.2 51.4#

71 110.8 32.1 48.1#



#33

1,2-Dichloroethane-d4

Concen: 50.136 ug/l

RT: 6.03 min Scan# 811

Delta R.T. -0.00 min

Lab File: VX018072.D

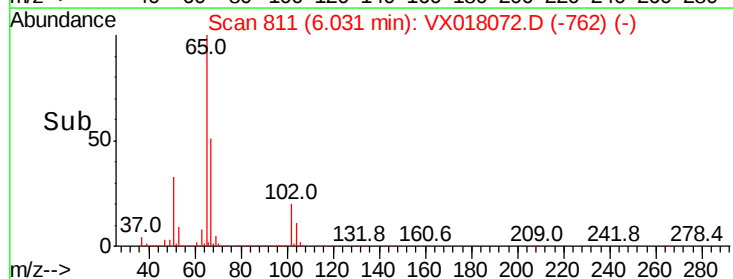
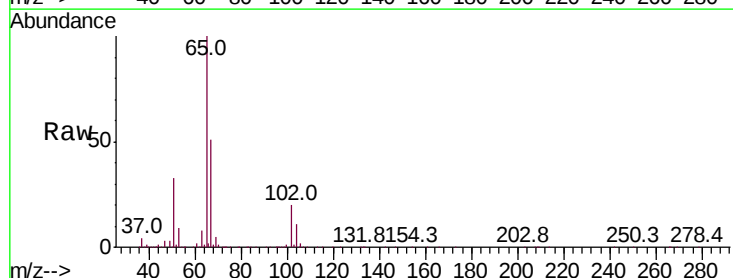
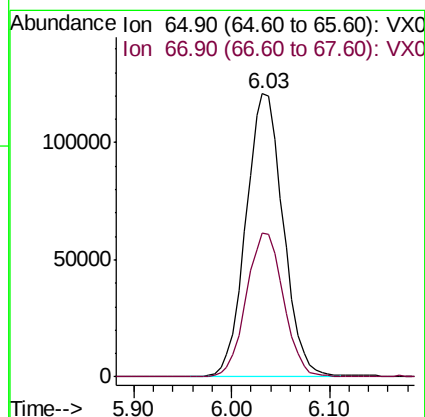
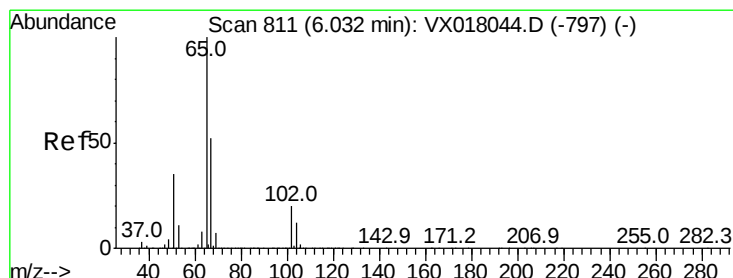
Acq: 26 Aug 2020 13:16

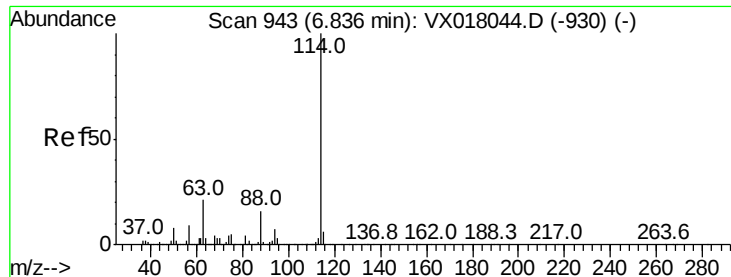
Tgt Ion: 65 Resp: 320112

Ion Ratio Lower Upper

65 100

67 51.0 0.0 105.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.84 min Scan# 943

Delta R.T. -0.00 min

Lab File: VX018072.D

Acq: 26 Aug 2020 13:16

Instrument :

MSVOA_X

ClientSampleId :

PB131195ZHE#03

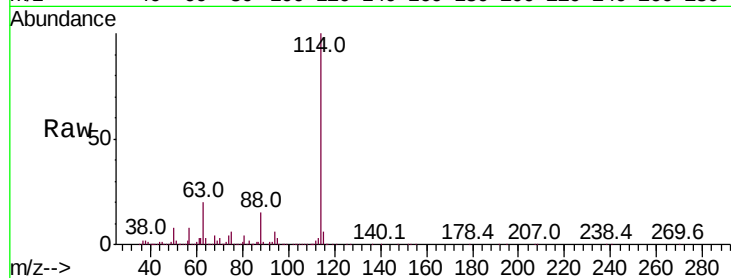
Tot Ion:114 Resp: 783931

Ion Ratio Lower Upper

114 100

63 20.2 0.0 42.6

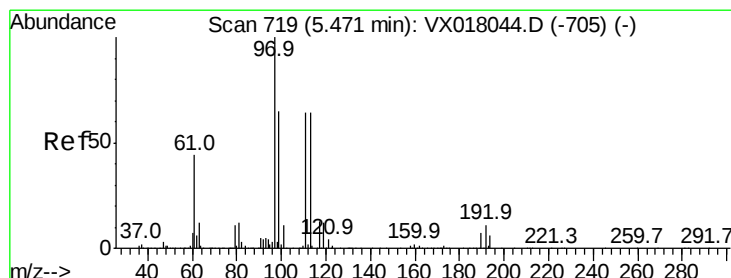
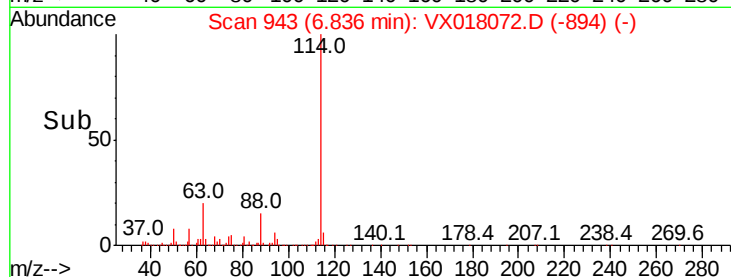
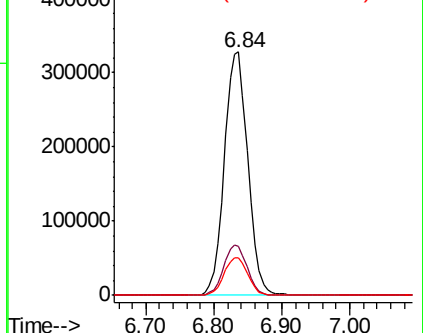
88 15.2 0.0 31.8



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: 47.435 ug/l

RT: 5.46 min Scan# 718

Delta R.T. -0.01 min

Lab File: VX018072.D

Acq: 26 Aug 2020 13:16

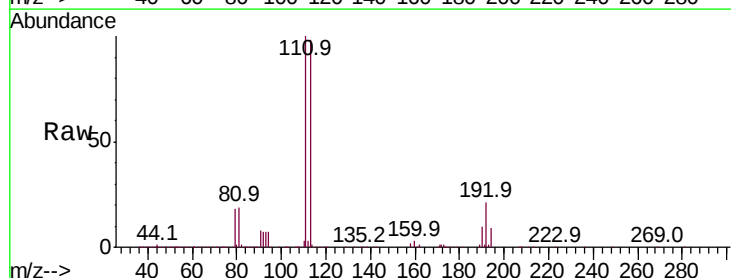
Tgt Ion:113 Resp: 253251

Ion Ratio Lower Upper

113 100

111 101.0 81.6 122.4

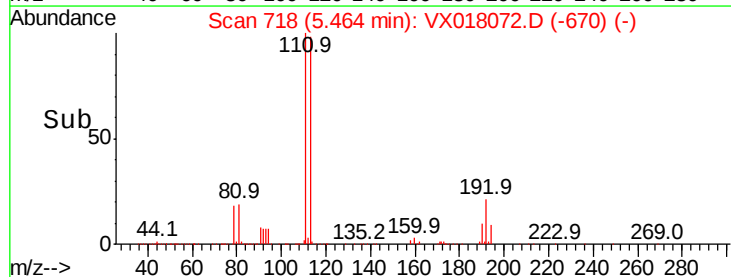
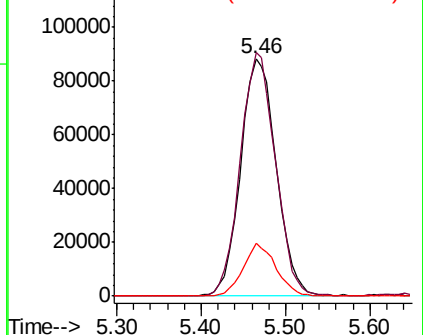
192 20.4 15.8 23.8

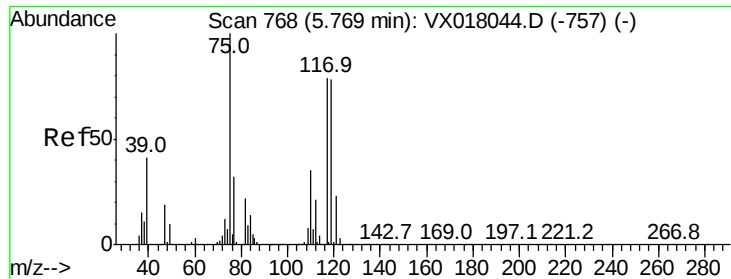


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.710 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.14 min

Lab File: VX018072.D

Acq: 26 Aug 2020 13:16

Instrument :

MSVOA_X

ClientSampleId :

PB131195ZHE#03

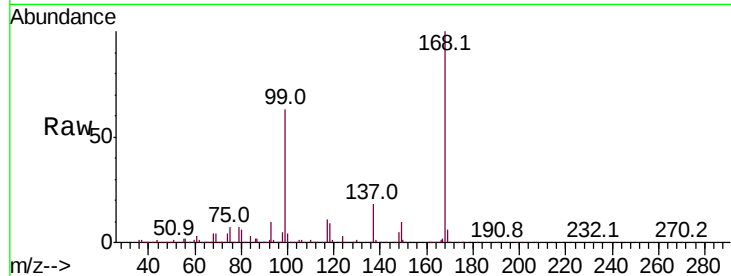
Tot Ion: 75 Resp: 34057

Ion Ratio Lower Upper

75 100

110 13.0 18.0 54.0#

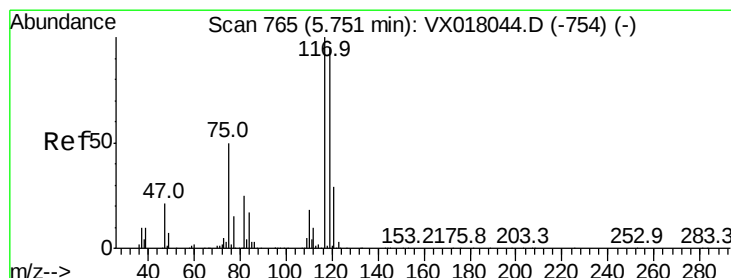
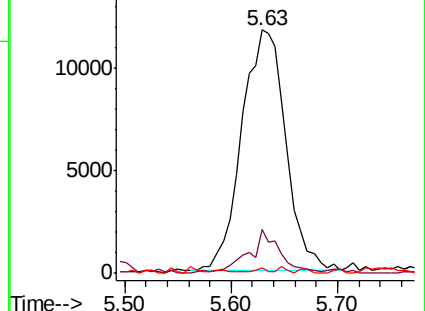
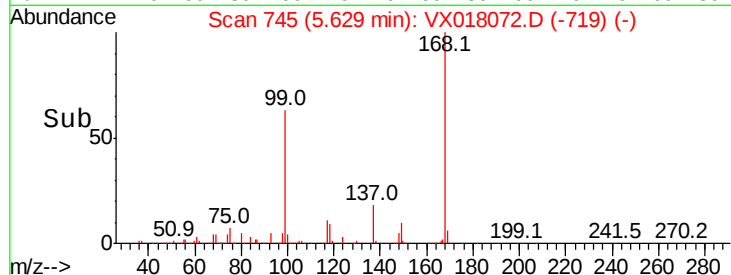
77 0.7 24.4 36.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0



#38

Carbon Tetrachloride

Concen: 5.994 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.12 min

Lab File: VX018072.D

Acq: 26 Aug 2020 13:16

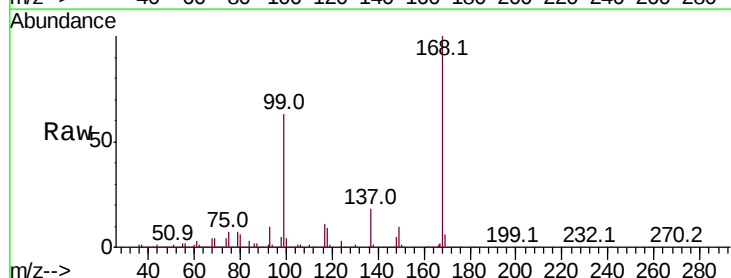
Tgt Ion: 117 Resp: 48845

Ion Ratio Lower Upper

117 100

119 4.7 75.8 113.6#

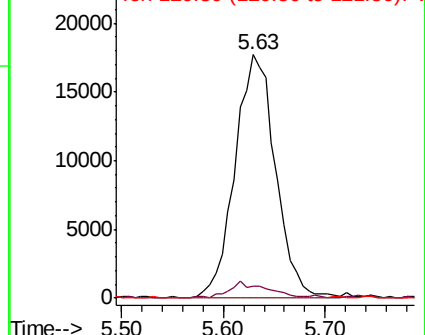
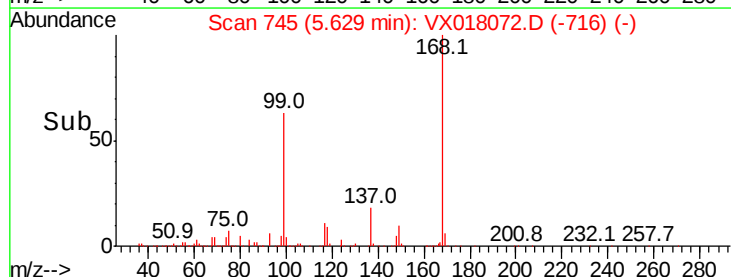
121 0.0 23.4 35.0#

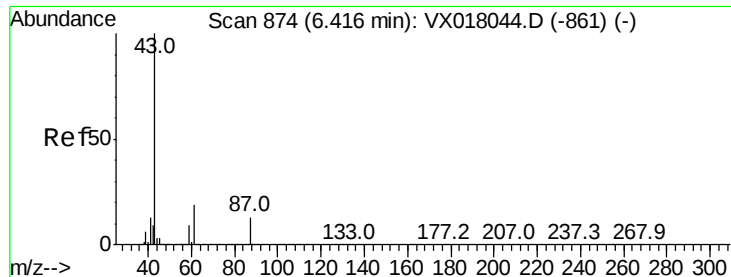


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#43

Isopropyl Acetate

Concen: 9.076 ug/l

RT: 6.42 min Scan# 874

Delta R.T. -0.00 min

Lab File: VX018072.D

Acq: 26 Aug 2020 13:16

Instrument :

MSVOA_X

ClientSampleId :

PB131195ZHE#03

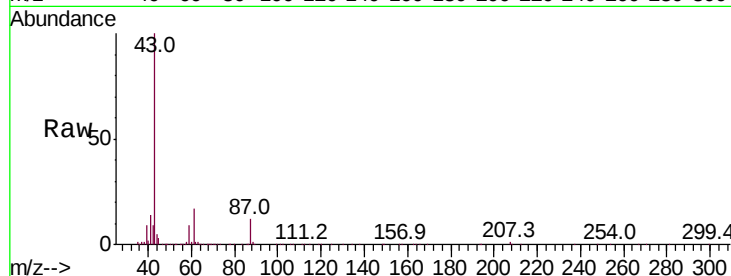
Tot Ion: 43 Resp: 123112

Ion Ratio Lower Upper

43 100

61 19.0 15.7 23.5

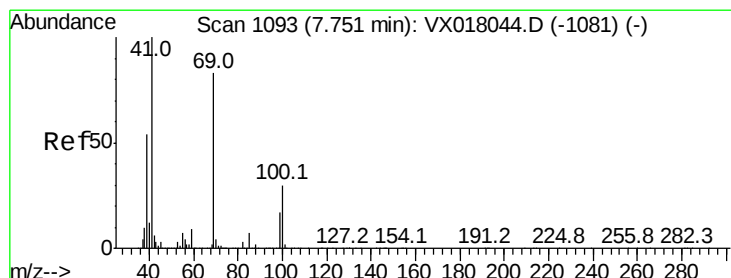
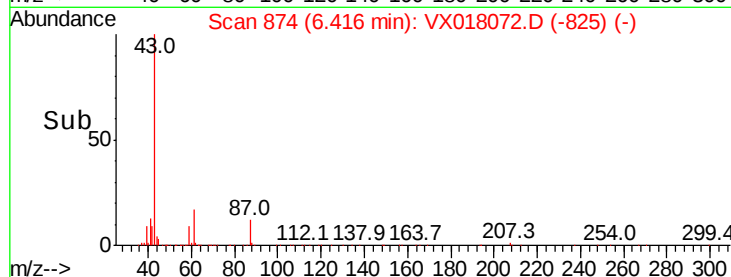
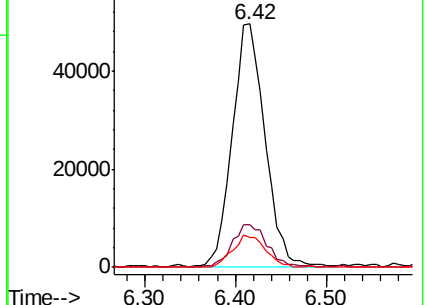
87 13.5 10.3 15.5



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: 29.138 ug/l

RT: 7.85 min Scan# 1109

Delta R.T. 0.10 min

Lab File: VX018072.D

Acq: 26 Aug 2020 13:16

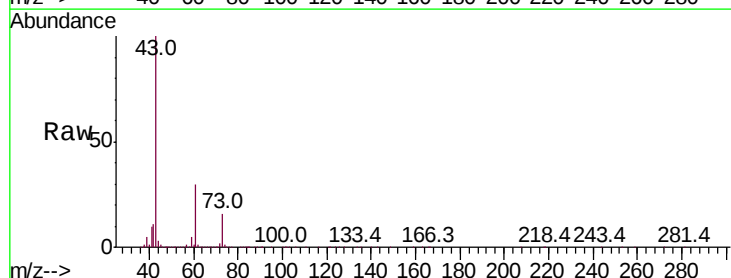
Tgt Ion: 41 Resp: 196747

Ion Ratio Lower Upper

41 100

69 0.5 65.5 98.3#

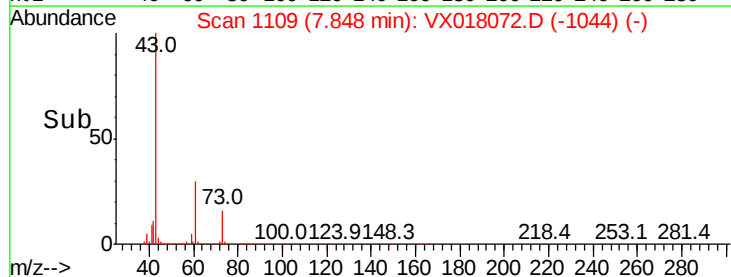
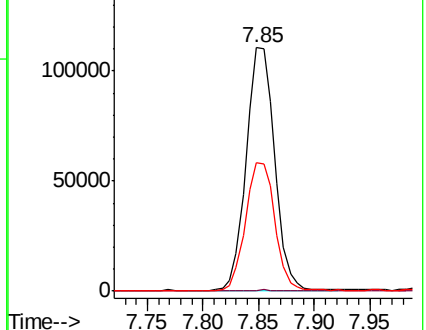
39 54.5 44.5 66.7

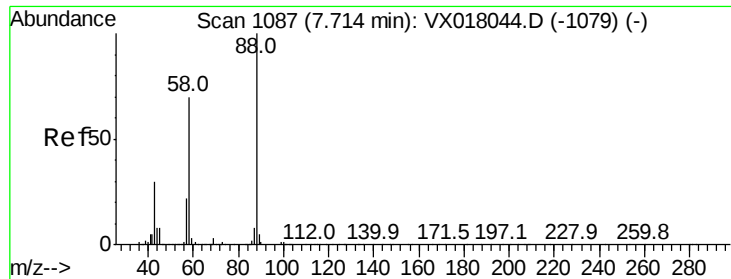


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 39.00 (38.70 to 39.70): VX0





#49

1,4-Dioxane

Concen: 1.308 ug/l

RT: 7.70 min Scan# 1084

Delta R.T. -0.02 min

Lab File: VX018072.D

Acq: 26 Aug 2020 13:16

Instrument :

MSVOA_X

ClientSampleId :

PB131195ZHE#03

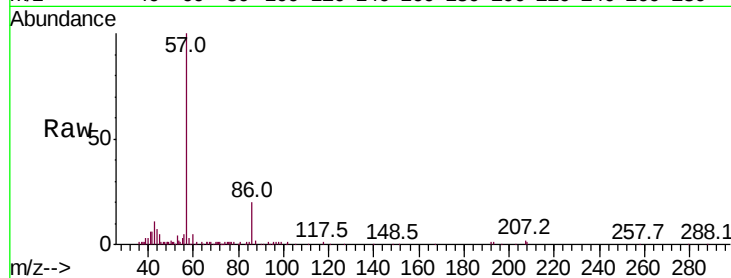
Tot Ion: 88 Resp: 160

Ion Ratio Lower Upper

88 100

43 0.0 27.4 41.0#

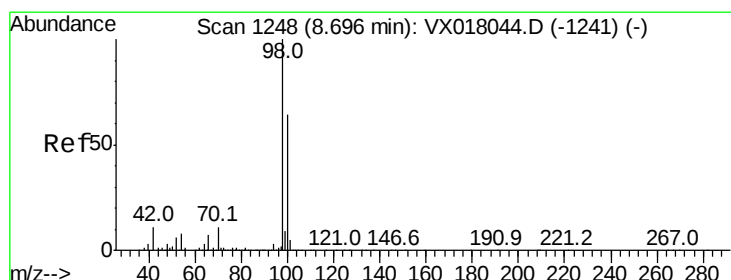
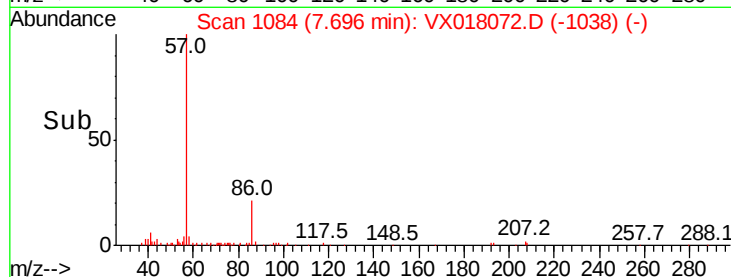
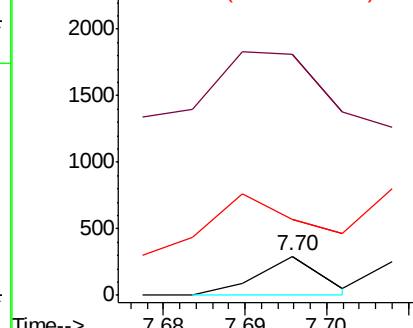
58 513.8 56.4 84.6#



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: 48.354 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX018072.D

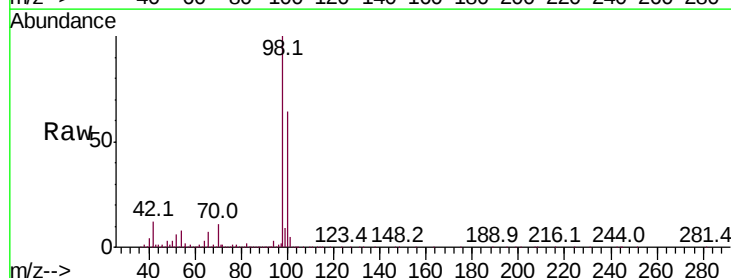
Acq: 26 Aug 2020 13:16

Tgt Ion: 98 Resp: 961523

Ion Ratio Lower Upper

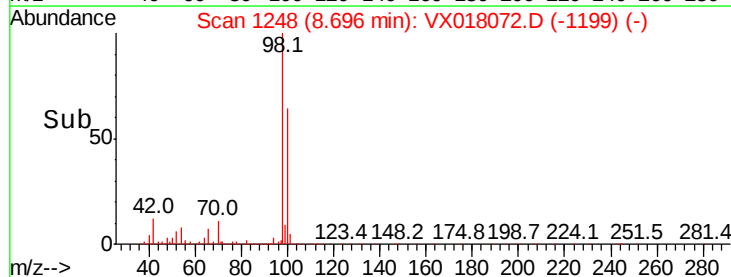
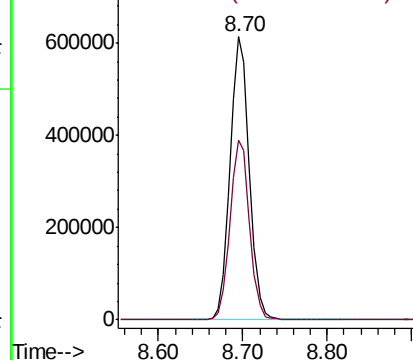
98 100

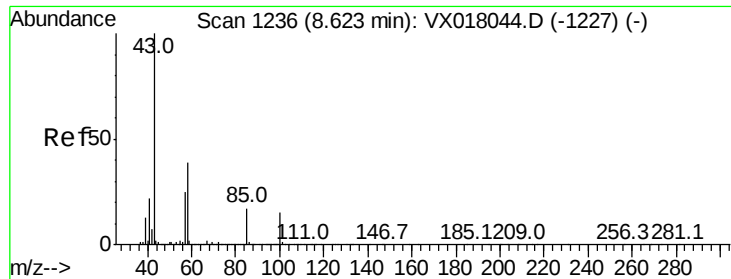
100 64.2 52.2 78.4



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#51

4-Methyl-2-Pentanone

Concen: 14.506 ug/l

RT: 8.59 min Scan# 1231

Delta R.T. -0.03 min

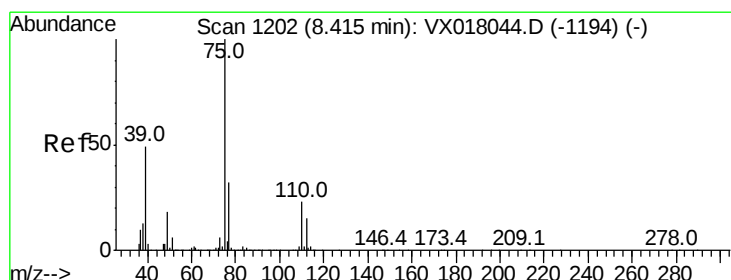
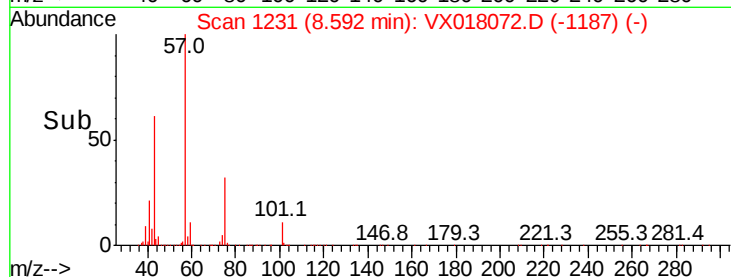
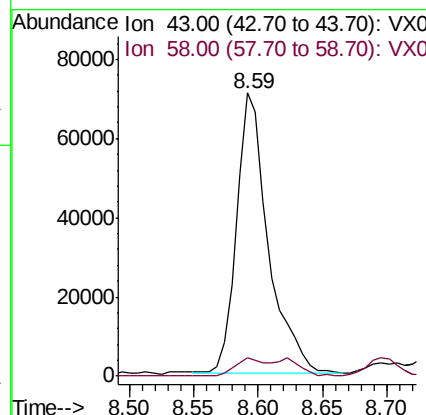
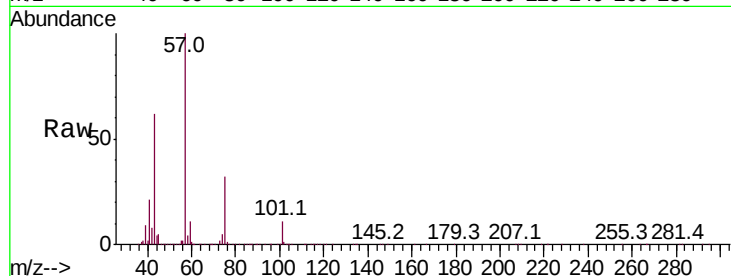
Lab File: VX018072.D

Acq: 26 Aug 2020 13:16

Instrument :
MSVOA_X
ClientSampleId :
PB131195ZHE#03

Tot Ion: 43 Resp: 121544

Ion	Ratio	Lower	Upper
43	100		
58	5.6	30.7	46.1#



#54

cis-1,3-Dichloropropene

Concen: 5.392 ug/l

RT: 8.59 min Scan# 1231

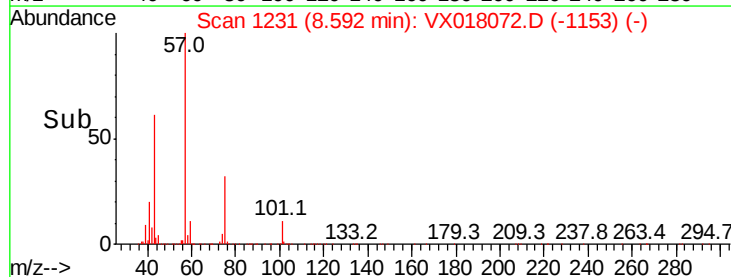
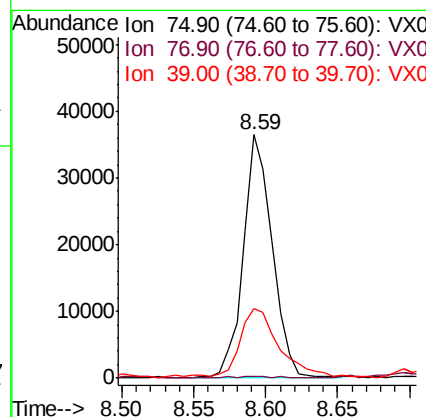
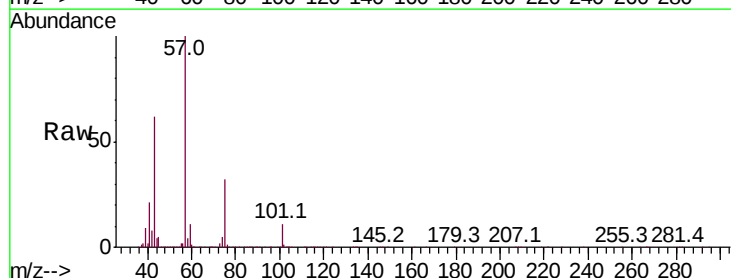
Delta R.T. 0.18 min

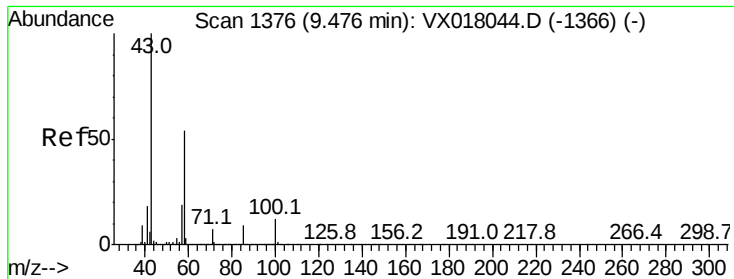
Lab File: VX018072.D

Acq: 26 Aug 2020 13:16

Tgt Ion: 75 Resp: 50896

Ion	Ratio	Lower	Upper
75	100		
77	0.8	25.8	38.8#
39	27.5	38.8	58.2#

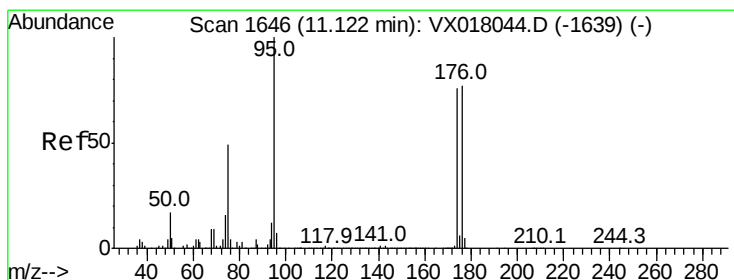
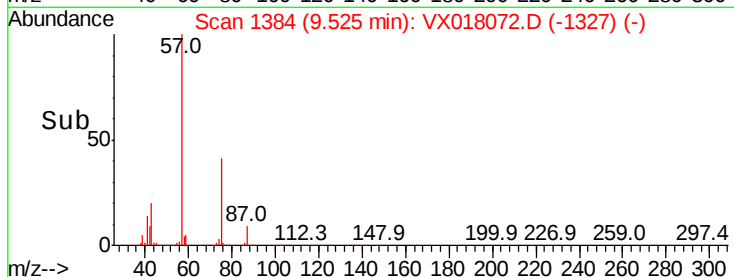
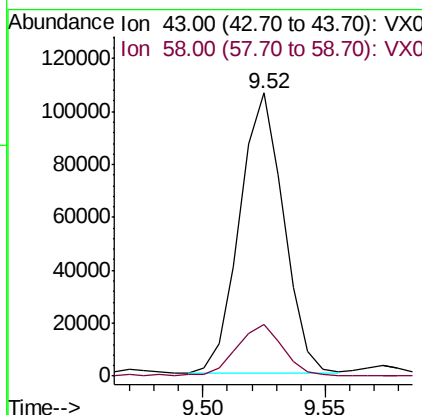
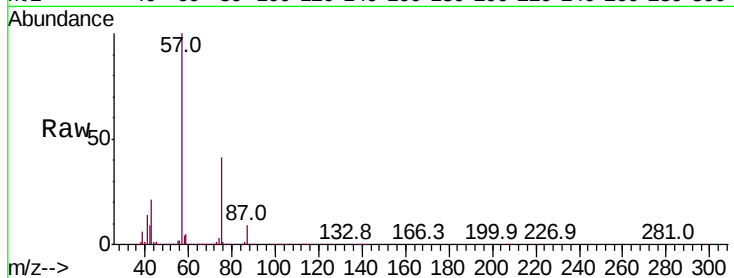




#59
2-Hexanone
Concen: 20.798 ug/l
RT: 9.52 min Scan# 1384
Delta R.T. 0.05 min
Lab File: VX018072.D
Acq: 26 Aug 2020 13:16

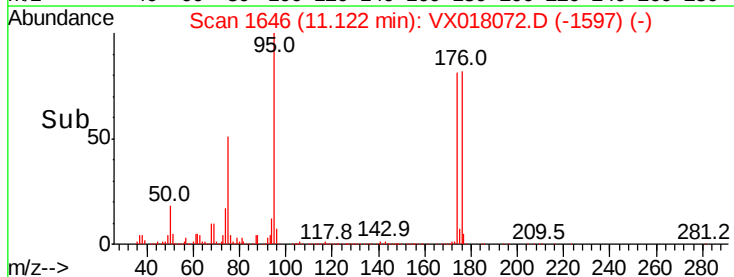
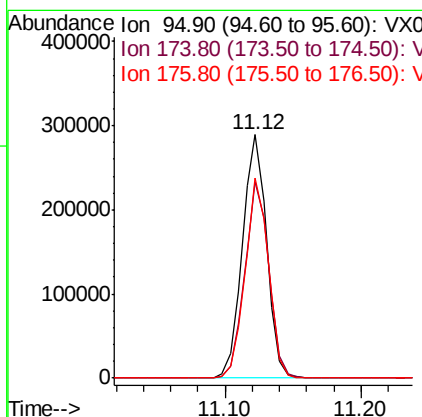
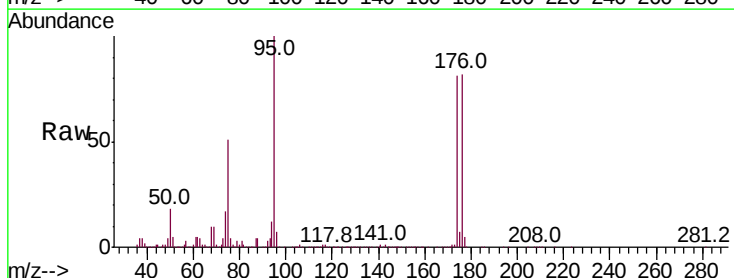
Instrument :
MSVOA_X
ClientSampleId :
PB131195ZHE#03

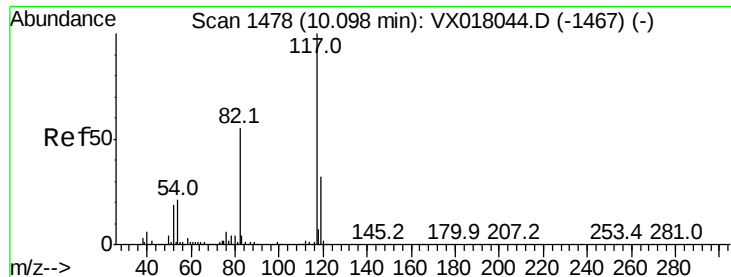
Tot Ion: 43 Resp: 132506
Ion Ratio Lower Upper
43 100
58 18.9 26.6 79.7#



#62
4-Bromofluorobenzene
Concen: 45.640 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. -0.00 min
Lab File: VX018072.D
Acq: 26 Aug 2020 13:16

Tgt Ion: 95 Resp: 357074
Ion Ratio Lower Upper
95 100
174 80.9 0.0 160.2
176 80.0 0.0 155.8

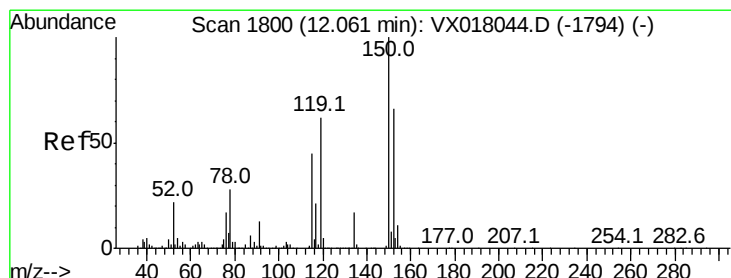
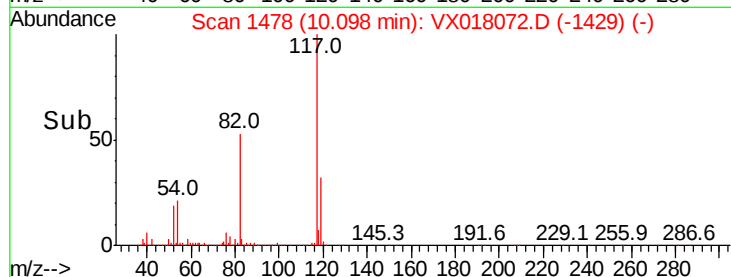
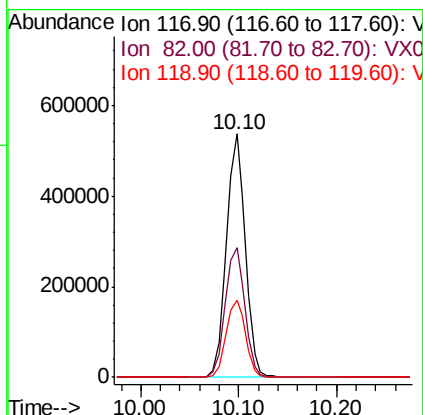
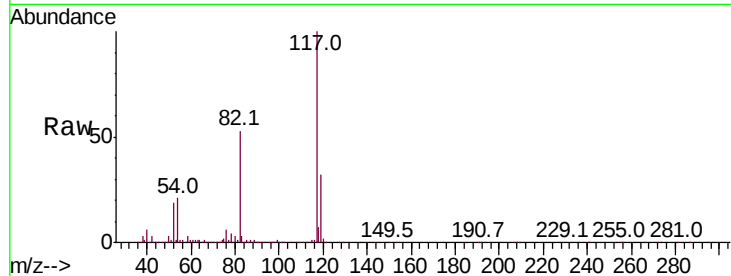




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX018072.D
Acq: 26 Aug 2020 13:16

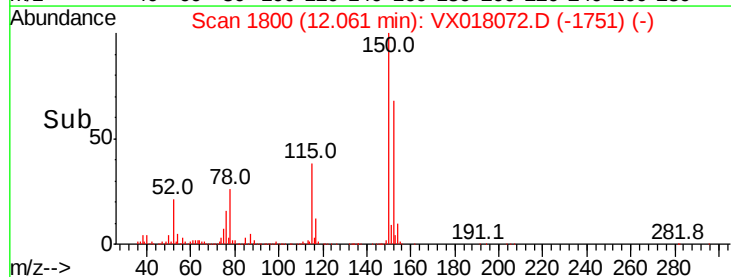
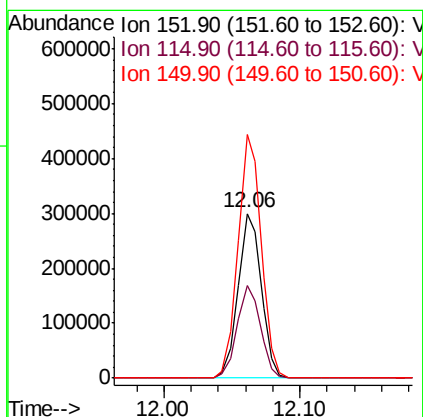
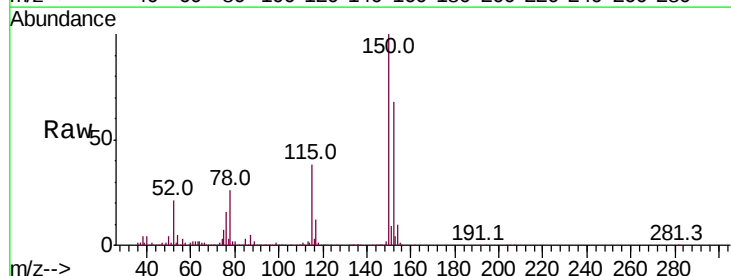
Instrument :
MSVOA_X
ClientSampleId :
PB131195ZHE#03

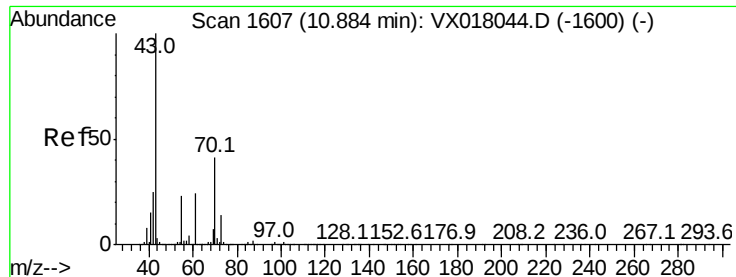
Tot Ion	Ratio	Lower	Upper
117	100		
82	53.2	44.2	66.2
119	31.8	25.7	38.5



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. -0.00 min
Lab File: VX018072.D
Acq: 26 Aug 2020 13:16

Tgt Ion	Ratio	Lower	Upper
152	100		
115	56.7	41.5	124.5
150	147.9	0.0	343.8





#74

N-amvl acetate

Concen: 0.624 ug/l

RT: 10.80 min Scan# 1594

Delta R.T. -0.08 min

Lab File: VX018072.D

Acq: 26 Aug 2020 13:16

Instrument :

MSVOA_X

ClientSampleId :

PB131195ZHE#03

Tot Ion: 43 Resp: 6955

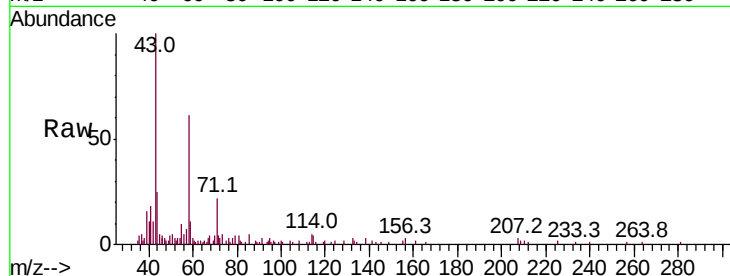
Ion Ratio Lower Upper

43 100

70 3.7 32.3 48.5#

55 11.2 18.2 27.2#

61 0.0 18.9 28.3#

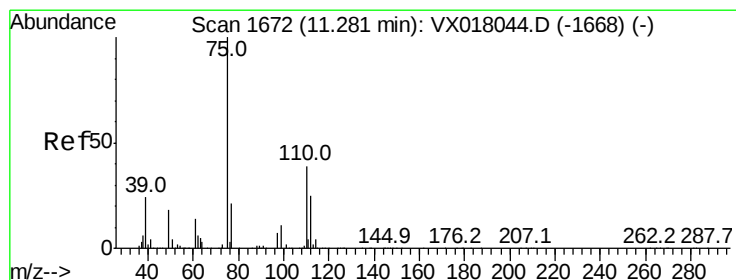
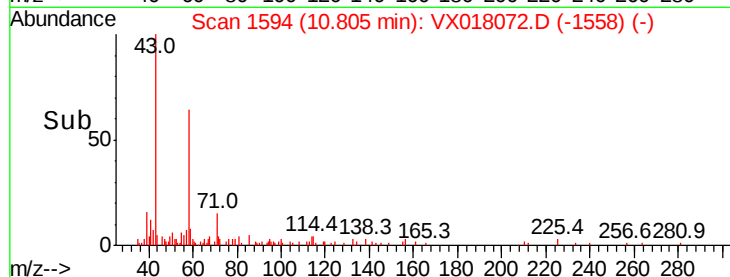
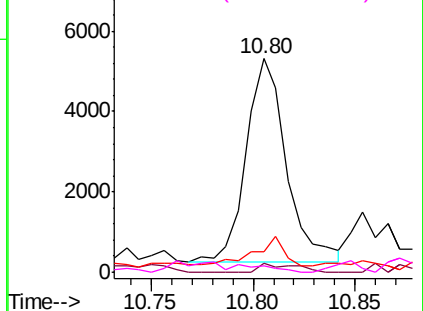


Abundance Ion 43.00 (42.70 to 43.70): VX0

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: 22.914 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX018072.D

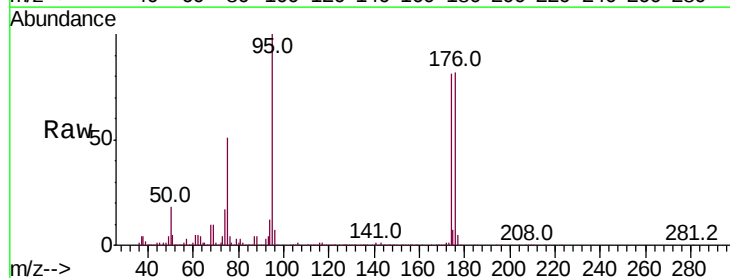
Acq: 26 Aug 2020 13:16

Tgt Ion: 75 Resp: 181394

Ion Ratio Lower Upper

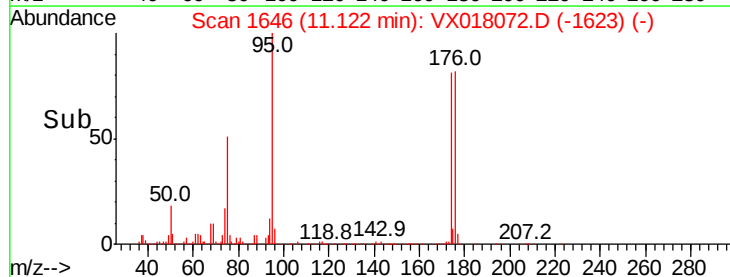
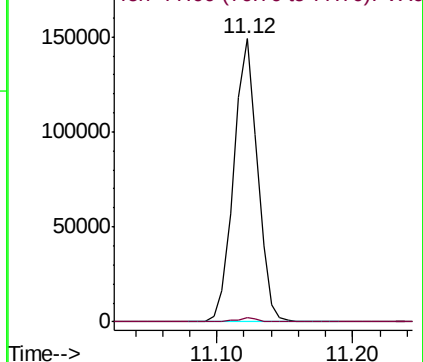
75 100

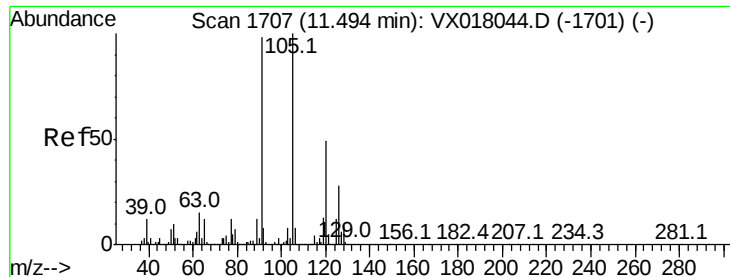
77 1.4 20.8 62.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

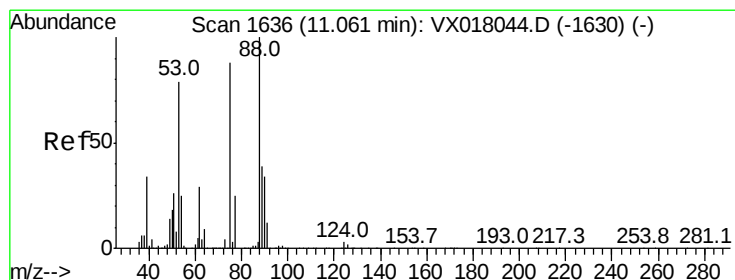
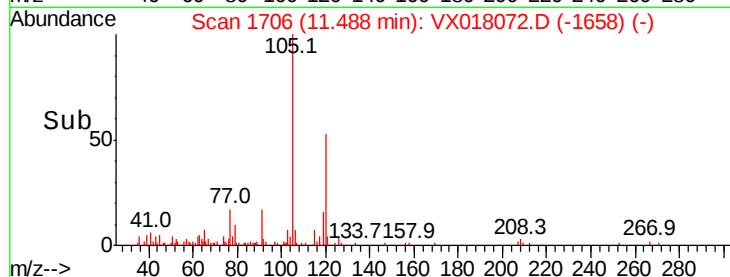
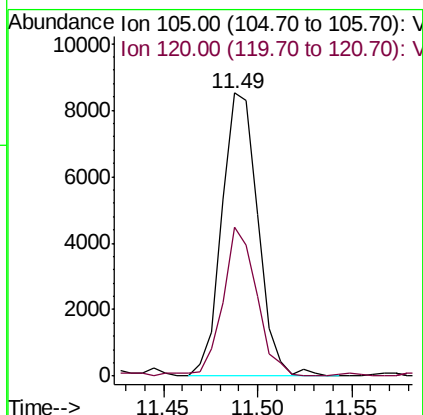
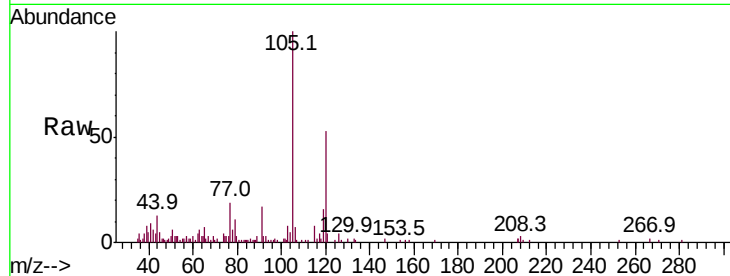




#80
 1,3,5-Trimethylbenzene
 Concen: 0.587 ug/l
 RT: 11.49 min Scan# 1706
 Delta R.T. -0.01 min
 Lab File: VX018072.D
 Acq: 26 Aug 2020 13:16

Instrument :
 MSVOA_X
 ClientSampleId :
 PB131195ZHE#03

Tot Ion:105 Resp: 11316
 Ion Ratio Lower Upper
 105 100
 120 49.7 24.1 72.2



#81
 trans-1,4-Dichloro-2-butene
 Concen: 61.886 ug/l
 RT: 11.12 min Scan# 1646
 Delta R.T. 0.06 min
 Lab File: VX018072.D
 Acq: 26 Aug 2020 13:16

Tgt Ion: 75 Resp: 181394
 Ion Ratio Lower Upper
 75 100
 53 0.2 74.7 112.1#
 89 0.1 36.6 54.8#

