

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX051120\
 Data File : VX016155.D
 Acq On : 11 May 2020 17:35
 Operator : JC/SP
 Sample : PB128761ZHE#05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB128761ZHE#05

Quant Time: May 12 07:00:07 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X050420W.M
 Quant Title : SW846 8260
 QLast Update : Wed May 06 06:43:32 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	290984	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	483152	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	480154	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	241684	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	178586	46.64	ug/l	0.00
Spiked Amount			Recovery	=	93.28%	
35) Dibromofluoromethane	5.47	113	144691	47.27	ug/l	0.00
Spiked Amount			Recovery	=	94.54%	
50) Toluene-d8	8.70	98	599222	50.81	ug/l	0.00
Spiked Amount			Recovery	=	101.62%	
62) 4-Bromofluorobenzene	11.12	95	238985	53.27	ug/l	0.00
Spiked Amount			Recovery	=	106.54%	

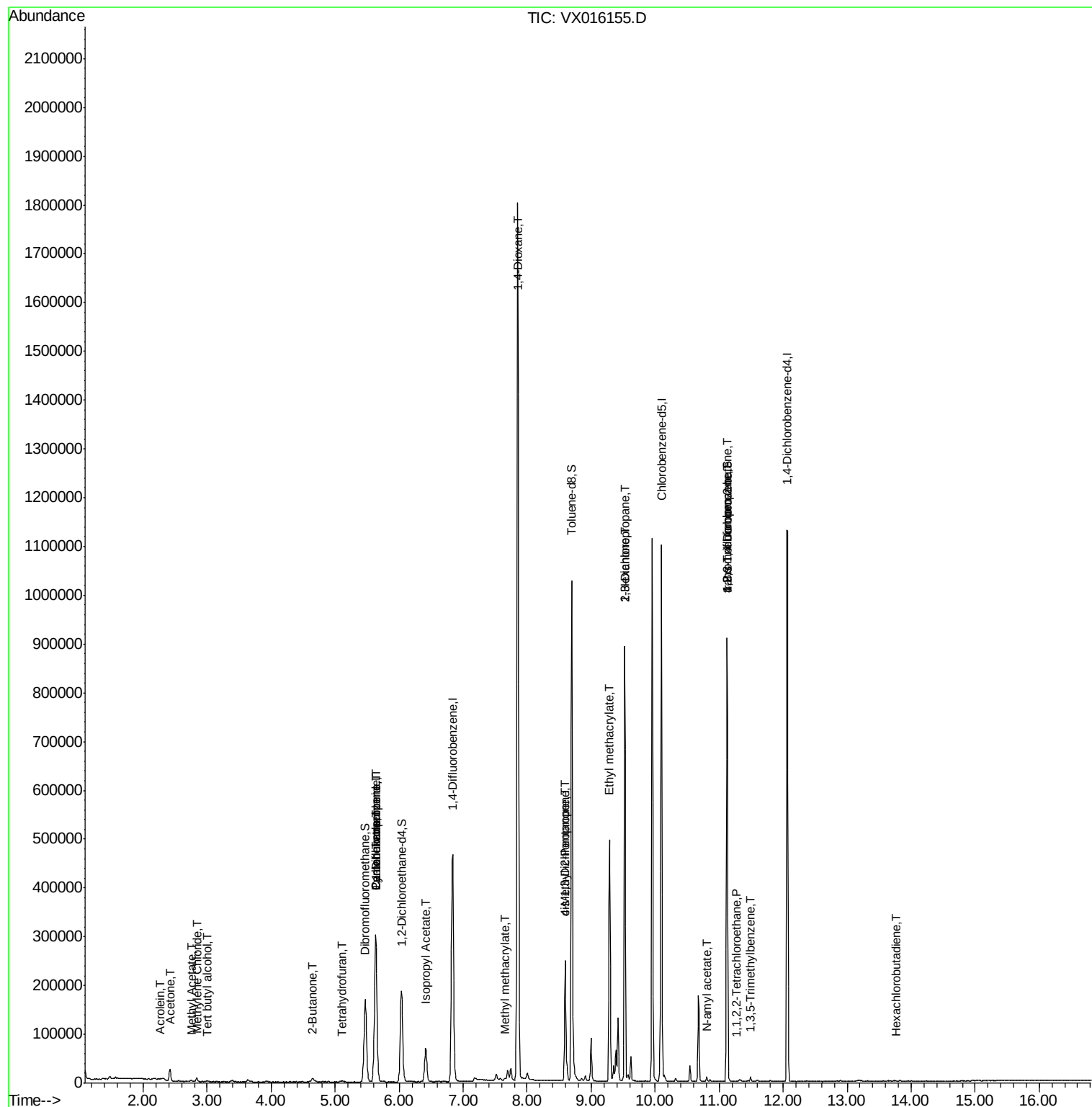
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	3.00	59	1490	1.539	ug/l	96
13) Acrolein	2.27	56	159	0.262	ug/l #	1
16) Acetone	2.42	43	25989	15.212	ug/l	98
17) Carbon Disulfide	2.55	76	1463	Below Cal	#	85
18) Methyl Acetate	2.75	43	4333	1.031	ug/l	97
20) Methylene Chloride	2.84	84	3300	0.937	ug/l	88
25) 2-Butanone	4.65	43	7338	2.665	ug/l	95
29) Tetrahydrofuran	5.11	42	2260	1.239	ug/l	95
31) Cyclohexane	5.63	56	6038	1.135	ug/l #	1
36) 1,1-Dichloropropene	5.63	75	22041	4.634	ug/l #	49
38) Carbon Tetrachloride	5.64	117	27739	5.738	ug/l #	15
43) Isopropyl Acetate	6.42	43	94618	10.758	ug/l	100
48) Methyl methacrylate	7.65	41	5490	1.317	ug/l #	14
49) 1,4-Dioxane	7.85	88	352	3.522	ug/l #	1
51) 4-Methyl-2-Pentanone	8.59	43	89793	16.684	ug/l #	44
54) cis-1,3-Dichloropropene	8.59	75	41427	6.826	ug/l #	56
56) Ethyl methacrylate	9.29	69	1313	0.236	ug/l #	1
57) 1,3-Dichloropropane	9.52	76	7300	1.226	ug/l #	46
59) 2-Hexanone	9.52	43	95560	22.609	ug/l #	49
74) N-amyl acetate	10.80	43	4534	0.553	ug/l #	47
75) 1,1,2,2-Tetrachloroethane	11.28	83	20	2.055	ug/l #	26
76) 1,2,3-Trichloropropane	11.12	75	116470	21.237	ug/l #	35
80) 1,3,5-Trimethylbenzene	11.49	105	3463	0.233	ug/l	95
81) trans-1,4-Dichloro-2-buten	11.12	75	116470	50.609	ug/l #	13
94) Hexachlorobutadiene	13.77	225	67	0.550	ug/l #	36

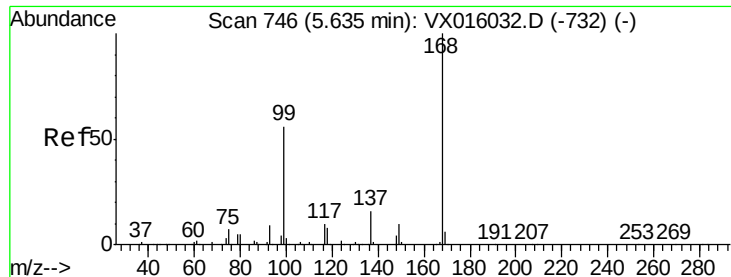
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: May 12 07:00:07 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X050420W.M
Quant Title : SW846 8260
QLast Update : Wed May 06 06:43:32 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.00 min

Lab File: VX016155.D

Acq: 11 May 2020 17:35

Instrument :

MSVOA_X

ClientSampleId :

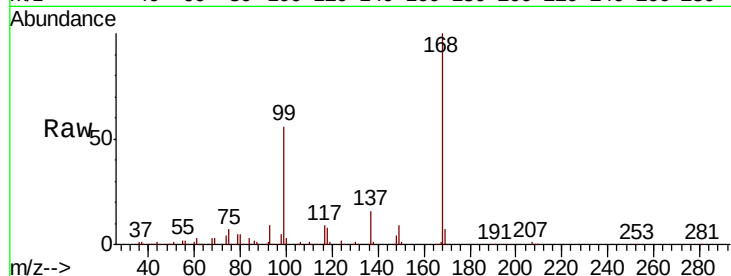
PB128761ZHE#05

Tot Ion:168 Resp: 290984

Ion Ratio Lower Upper

168 100

99 56.3 45.0 67.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.64

120000

100000

80000

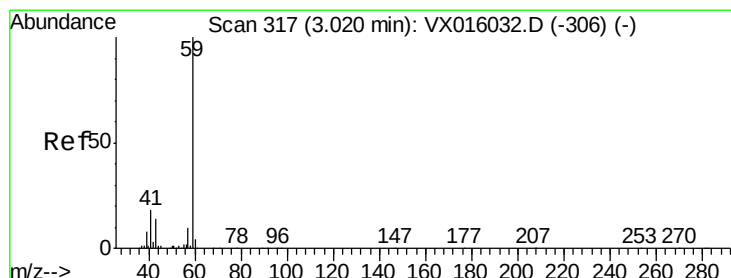
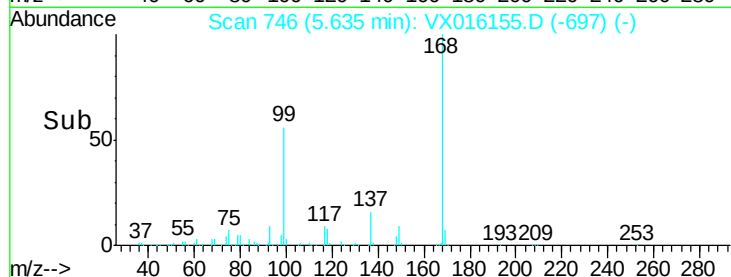
60000

40000

20000

0

Time-->



#11

Tert butyl alcohol

Concen: 1.539 ug/l

RT: 3.00 min Scan# 314

Delta R.T. -0.02 min

Lab File: VX016155.D

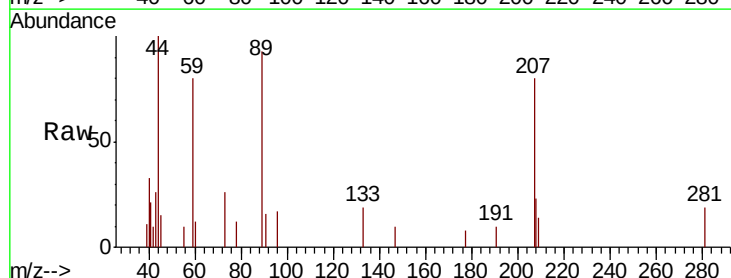
Acq: 11 May 2020 17:35

Tgt Ion: 59 Resp: 1490

Ion Ratio Lower Upper

59 100

57 8.8 8.2 12.4



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

3.00

600

500

400

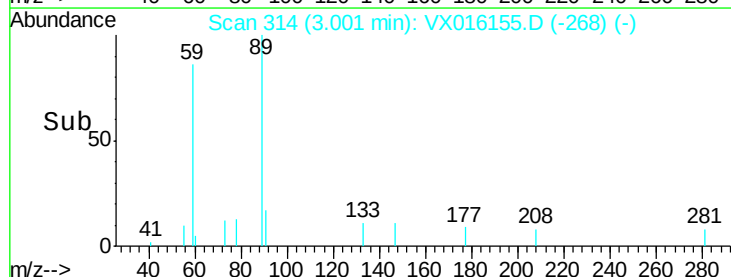
300

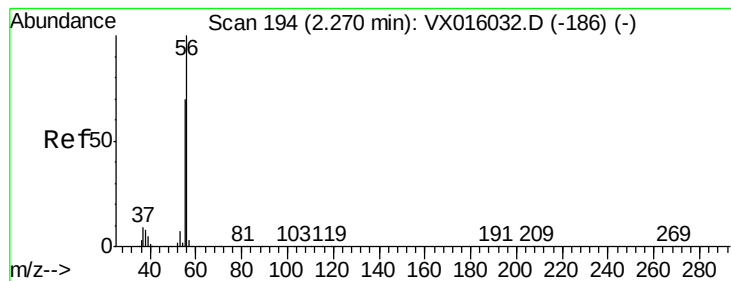
200

100

0

Time-->





#13

Acrolein

Concen: 0.262 ug/l

RT: 2.27 min Scan# 194

Delta R.T. -0.00 min

Lab File: VX016155.D

Acq: 11 May 2020 17:35

Instrument :

MSVOA_X

ClientSampleId :

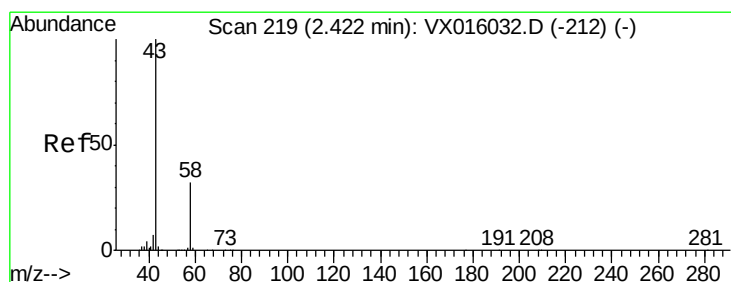
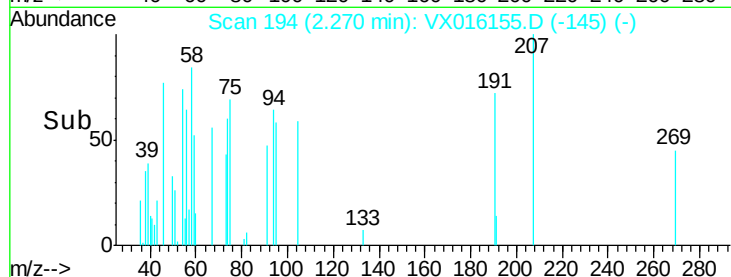
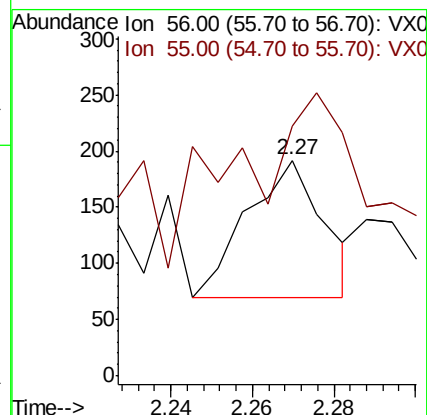
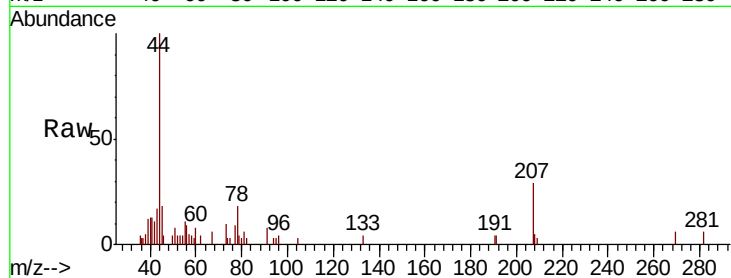
PB128761ZHE#05

Tot Ion: 56 Resp: 159

Ion Ratio Lower Upper

56 100

55 220.8 56.5 84.7#



#16

Acetone

Concen: 15.212 ug/l

RT: 2.42 min Scan# 219

Delta R.T. -0.00 min

Lab File: VX016155.D

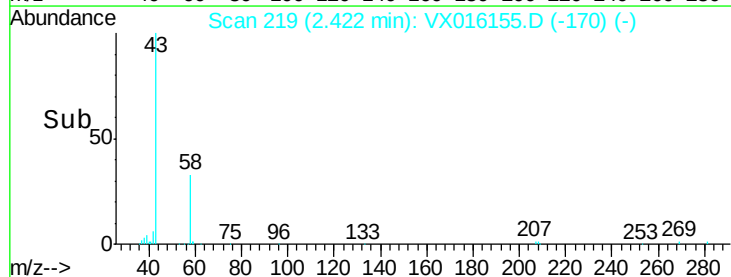
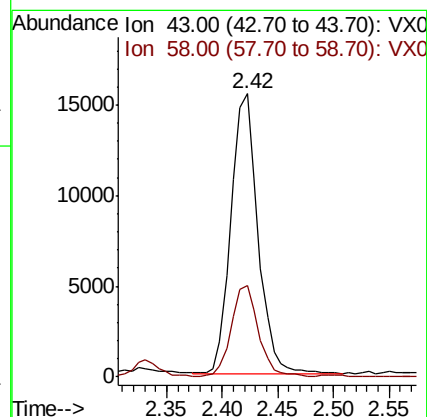
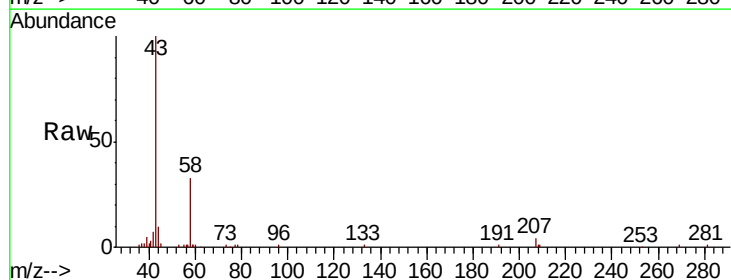
Acq: 11 May 2020 17:35

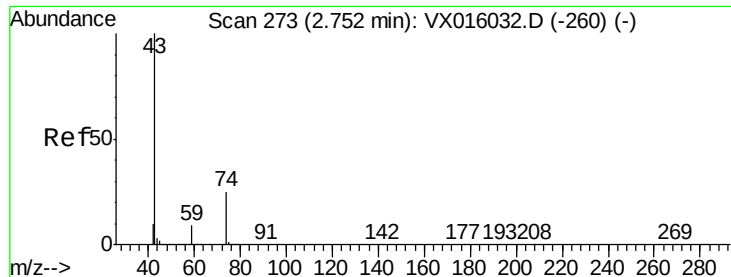
Tgt Ion: 43 Resp: 25989

Ion Ratio Lower Upper

43 100

58 32.9 25.4 38.0

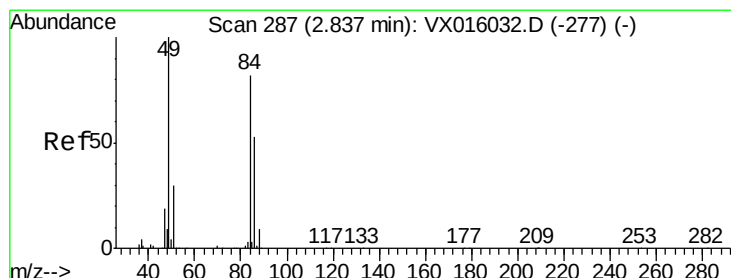
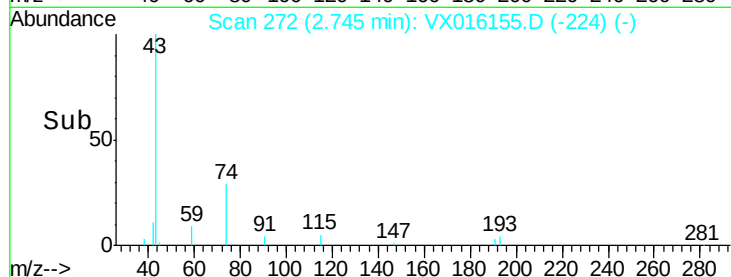
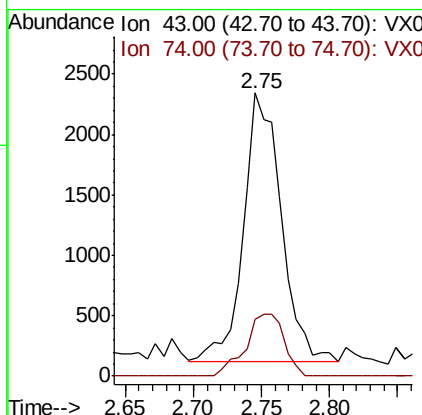
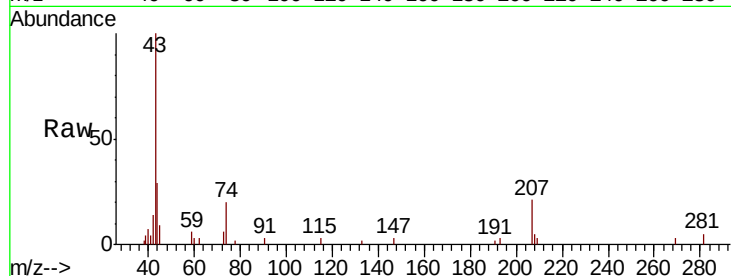




#18
Methyl Acetate
Concen: 1.031 ug/l
RT: 2.75 min Scan# 272
Delta R.T. -0.01 min
Lab File: VX016155.D
Acq: 11 May 2020 17:35

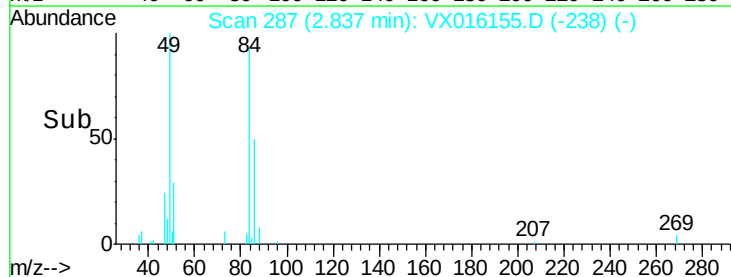
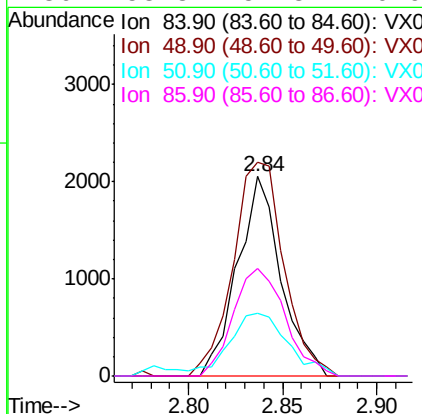
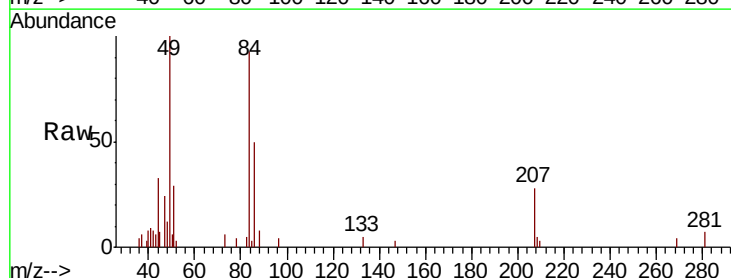
Instrument :
MSVOA_X
ClientSampleId :
PB128761ZHE#05

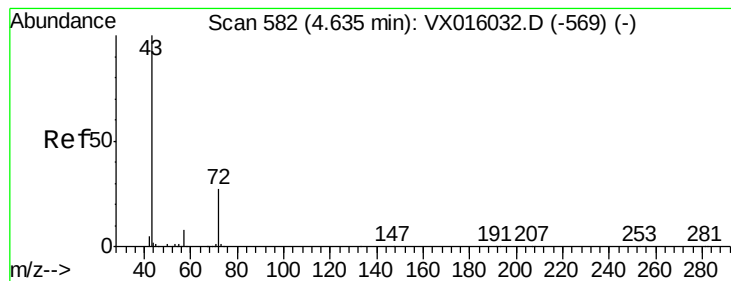
Tot Ion: 43 Resp: 4333
Ion Ratio Lower Upper
43 100
74 23.6 20.2 30.2



#20
Methylene Chloride
Concen: 0.937 ug/l
RT: 2.84 min Scan# 287
Delta R.T. -0.00 min
Lab File: VX016155.D
Acq: 11 May 2020 17:35

Tgt Ion: 84 Resp: 3300
Ion Ratio Lower Upper
84 100
49 107.2 97.3 145.9
51 31.3 29.3 43.9
86 53.8 51.3 76.9





#25

2-Butanone

Concen: 2.665 ug/l

RT: 4.65 min Scan# 584

Delta R.T. 0.01 min

Lab File: VX016155.D

Acq: 11 May 2020 17:35

Instrument :

MSVOA_X

ClientSampleId :

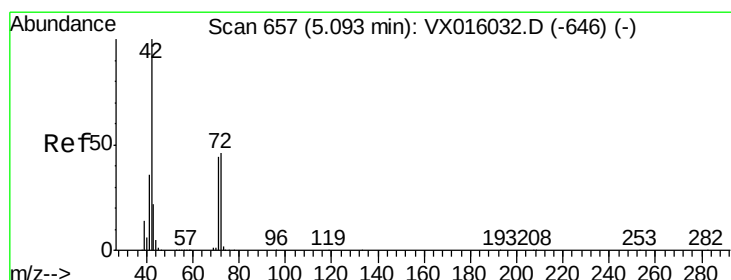
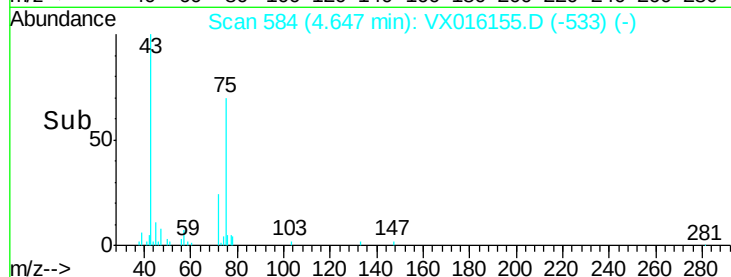
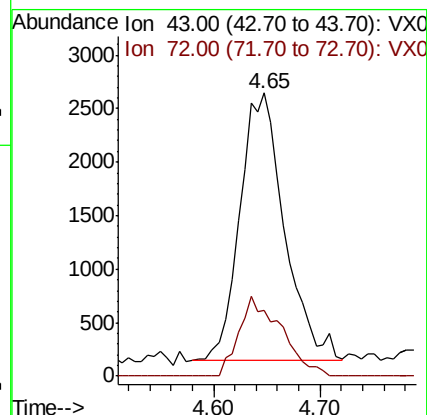
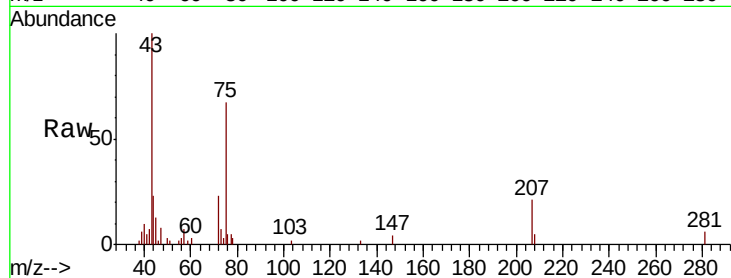
PB128761ZHE#05

Tot Ion: 43 Resp: 7338

Ion Ratio Lower Upper

43 100

72 24.6 21.8 32.8



#29

Tetrahydrofuran

Concen: 1.239 ug/l

RT: 5.11 min Scan# 660

Delta R.T. 0.02 min

Lab File: VX016155.D

Acq: 11 May 2020 17:35

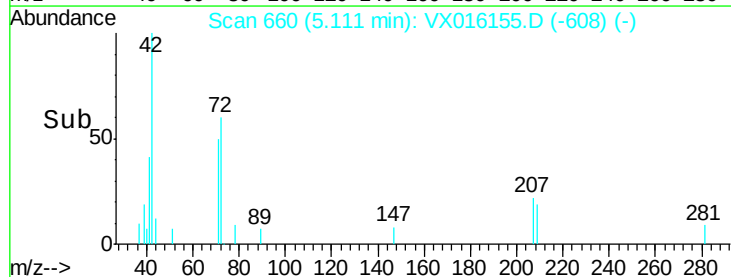
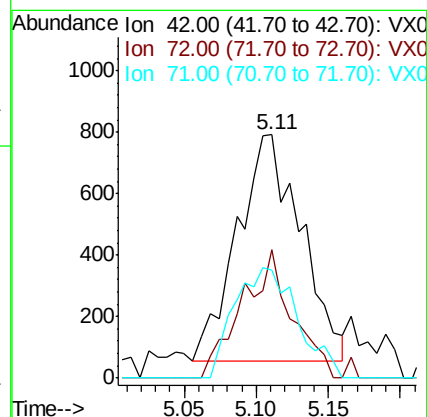
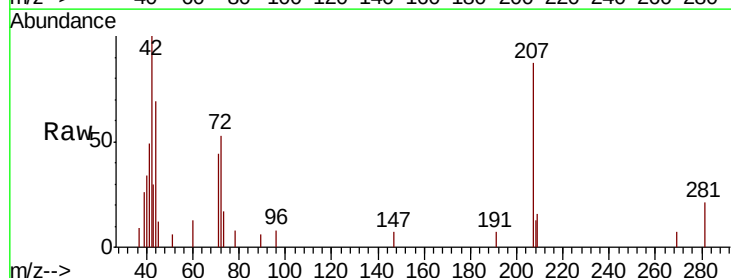
Tgt Ion: 42 Resp: 2260

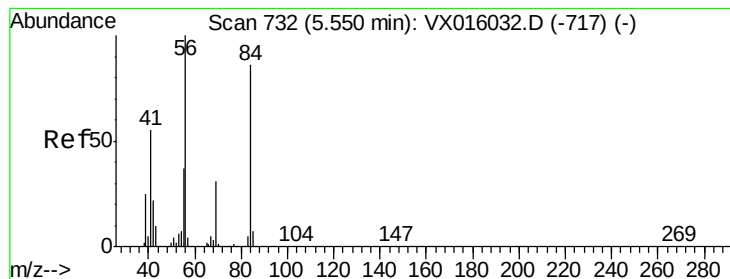
Ion Ratio Lower Upper

42 100

72 44.7 37.1 55.7

71 48.4 34.5 51.7





#31

Cyclohexane

Concen: 1.135 ug/l

RT: 5.63 min Scan# 745

Delta R.T. 0.08 min

Lab File: VX016155.D

Acq: 11 May 2020 17:35

Instrument :

MSVOA_X

ClientSampleId :

PB128761ZHE#05

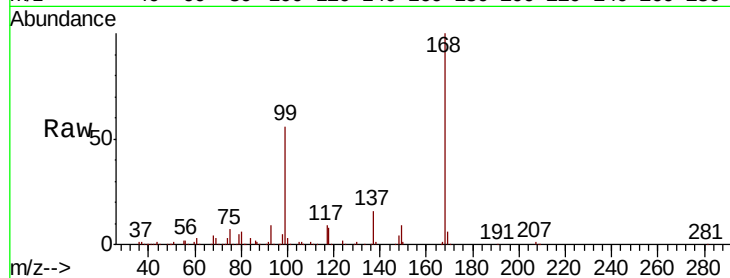
Tot Ion: 56 Resp: 6038

Ion Ratio Lower Upper

56 100

69 170.8 25.0 37.6#

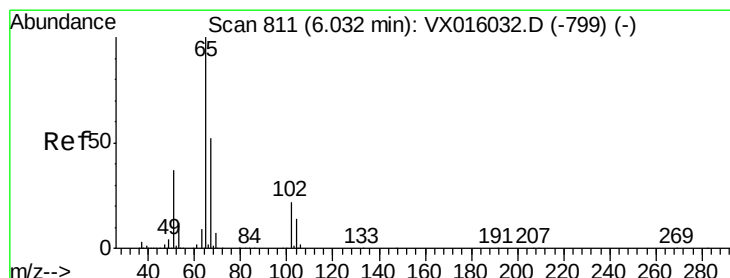
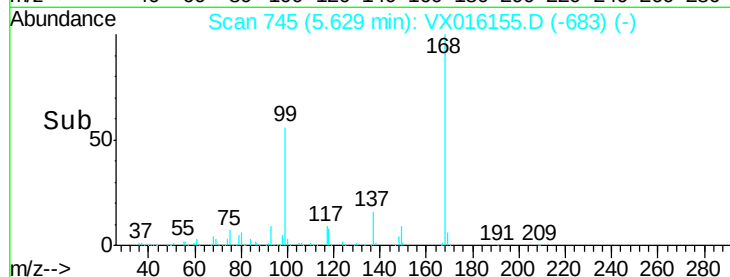
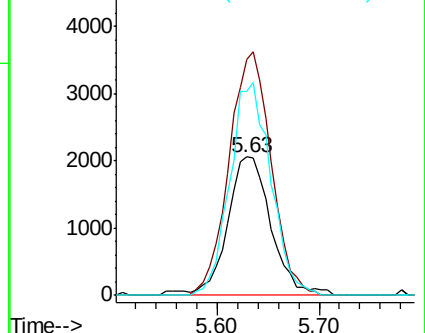
84 147.4 69.0 103.6#



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: 46.640 ug/l

RT: 6.03 min Scan# 811

Delta R.T. -0.00 min

Lab File: VX016155.D

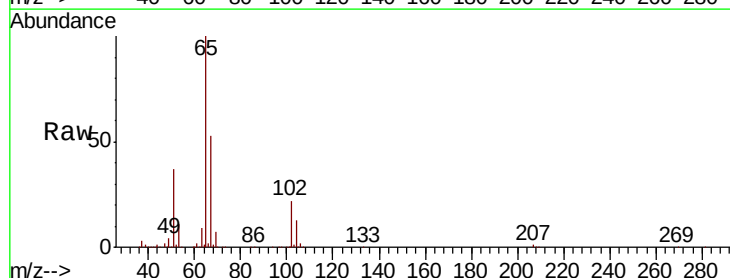
Acq: 11 May 2020 17:35

Tgt Ion: 65 Resp: 178586

Ion Ratio Lower Upper

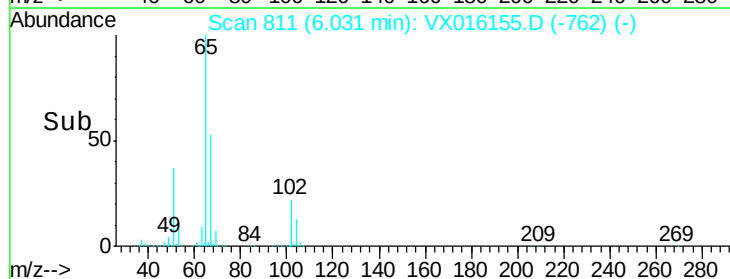
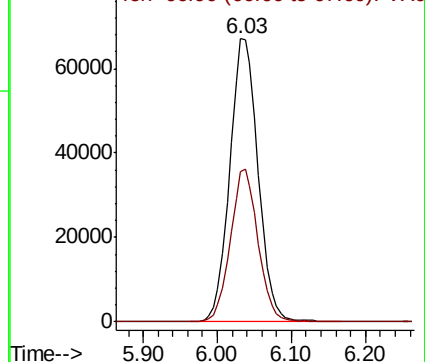
65 100

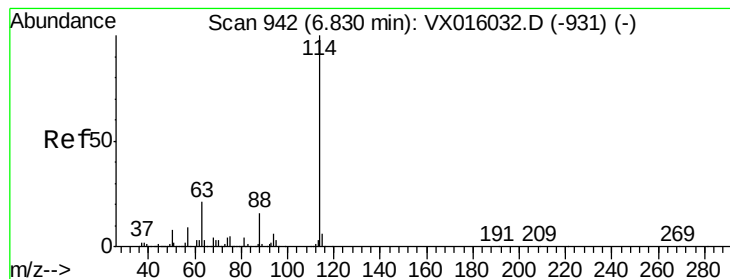
67 52.5 0.0 104.8



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: 6.84 min Scan# 943

Delta R.T. 0.01 min

Lab File: VX016155.D

Acq: 11 May 2020 17:35

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PB128761ZHE#05

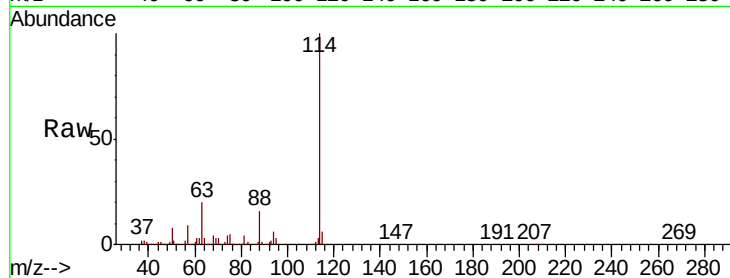
Tot Ion:114 Resp: 483152

Ion Ratio Lower Upper

114 100

63 20.4 0.0 42.8

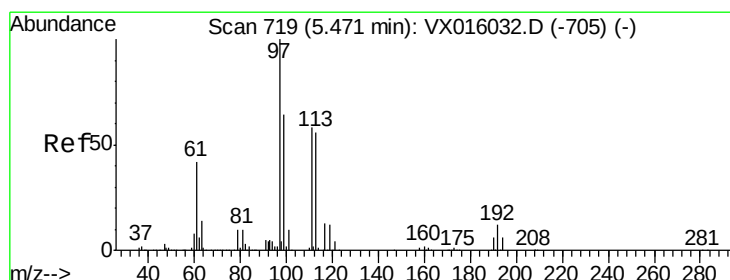
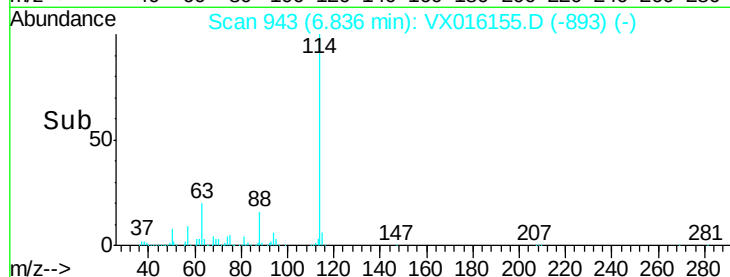
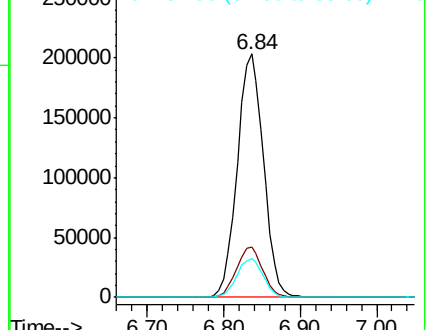
88 15.9 0.0 31.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 47.270 ug/l

RT: 5.47 min Scan# 719

Delta R.T. -0.00 min

Lab File: VX016155.D

Acq: 11 May 2020 17:35

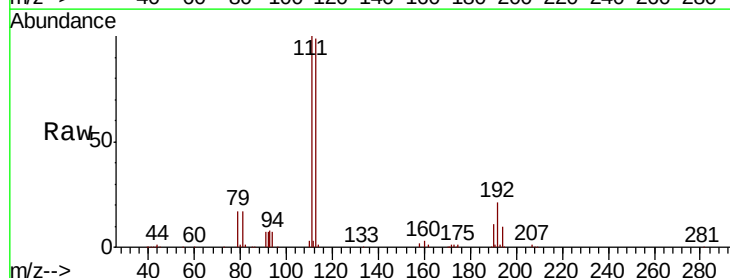
Tgt Ion:113 Resp: 144691

Ion Ratio Lower Upper

113 100

111 102.1 81.6 122.4

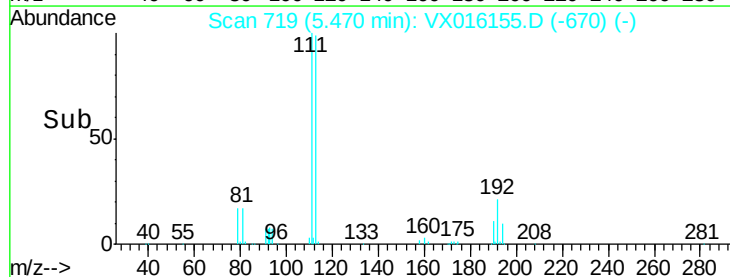
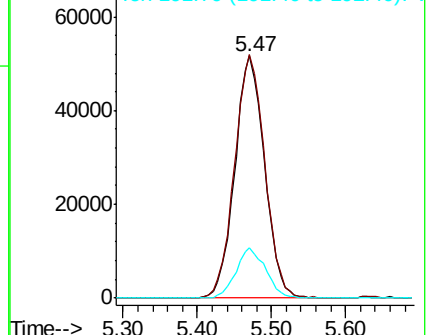
192 20.8 17.0 25.4

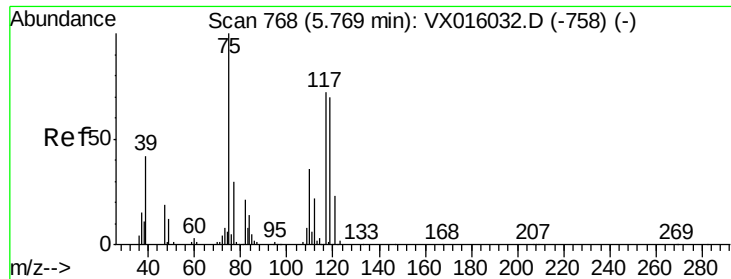


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.634 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.14 min

Lab File: VX016155.D

Acq: 11 May 2020 17:35

Instrument :

MSVOA_X

ClientSampleId :

PB128761ZHE#05

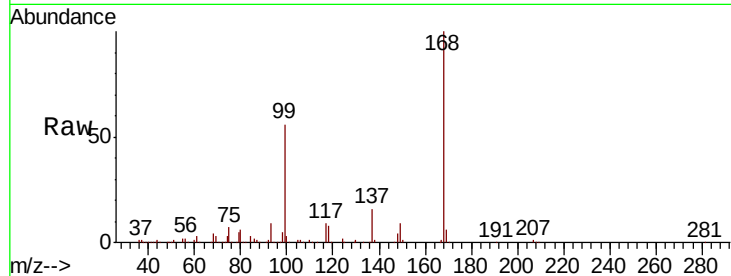
Tot Ion: 75 Resp: 22041

Ion Ratio Lower Upper

75 100

110 9.5 18.1 54.1#

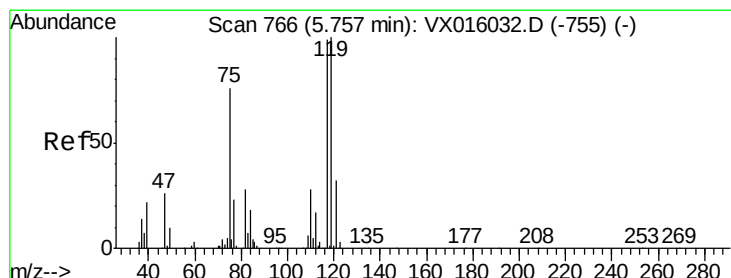
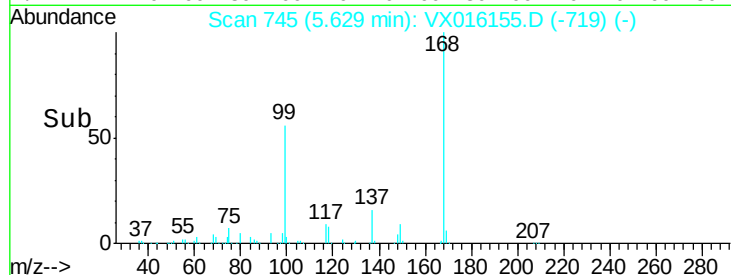
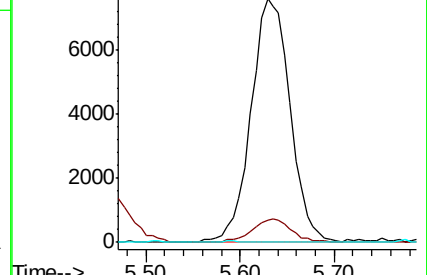
77 0.0 25.0 37.6#



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: 5.738 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.12 min

Lab File: VX016155.D

Acq: 11 May 2020 17:35

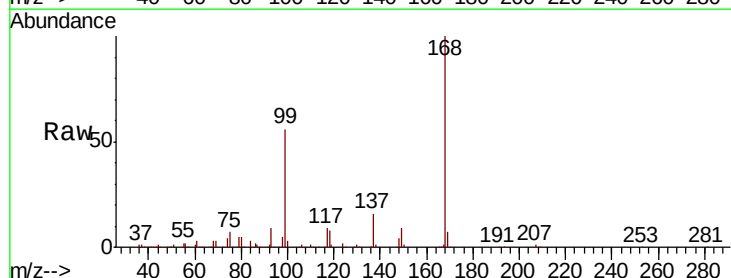
Tgt Ion: 117 Resp: 27739

Ion Ratio Lower Upper

117 100

119 6.0 80.3 120.5#

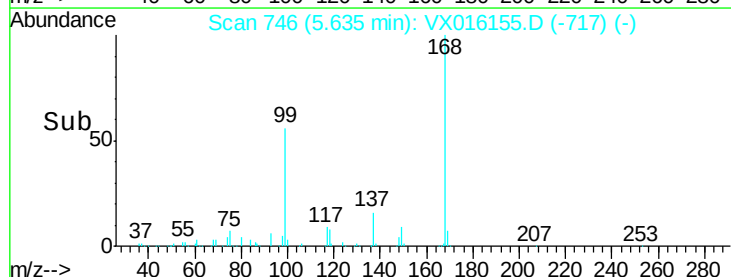
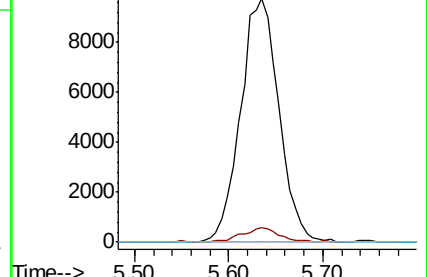
121 0.0 25.7 38.5#

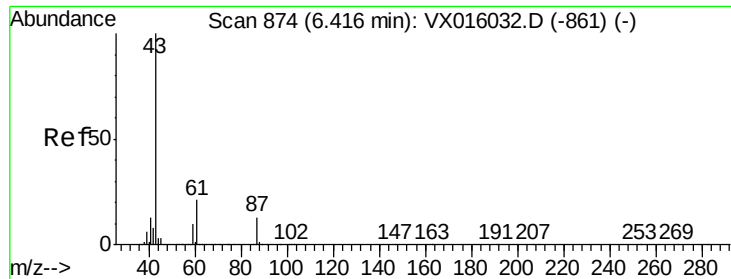


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



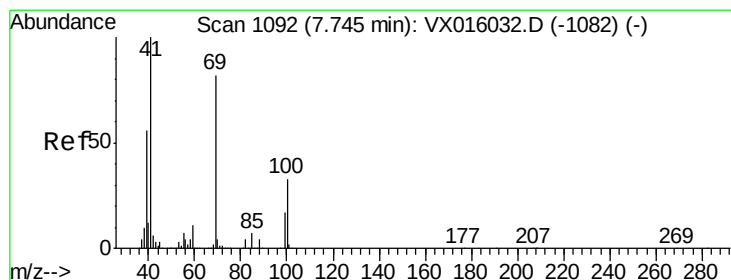
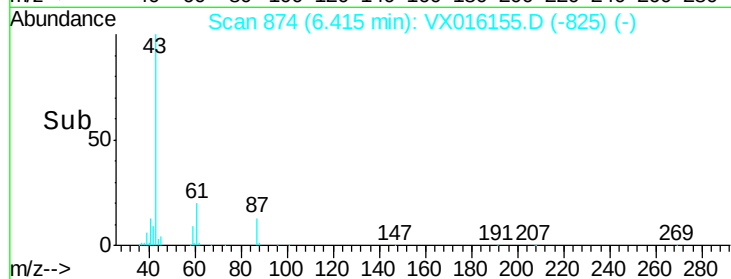
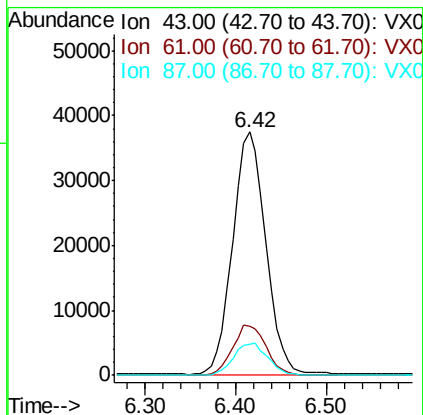
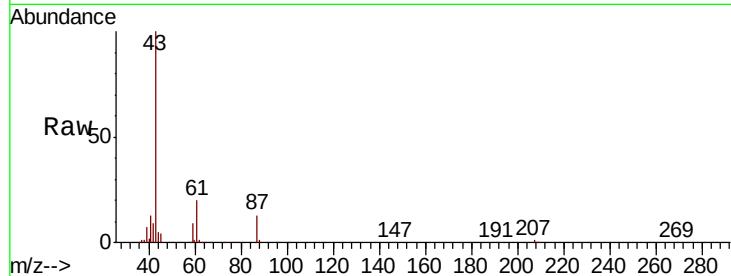


#43

Isopropyl Acetate
 Concen: 10.758 ug/l
 RT: 6.42 min Scan# 874
 Delta R.T. -0.00 min
 Lab File: VX016155.D
 Acq: 11 May 2020 17:35

Instrument :
 MSVOA_X
 ClientSampleId :
 PB128761ZHE#05

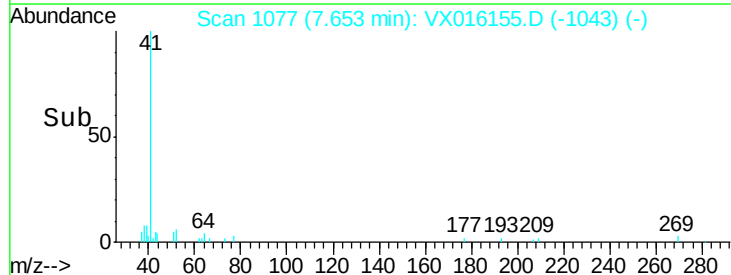
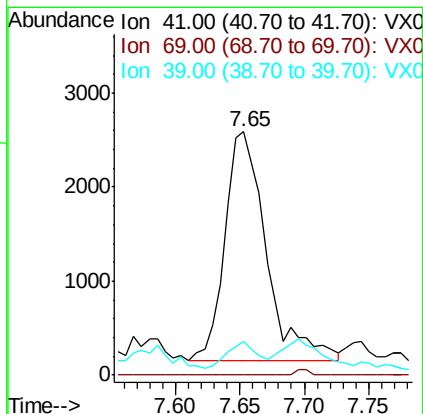
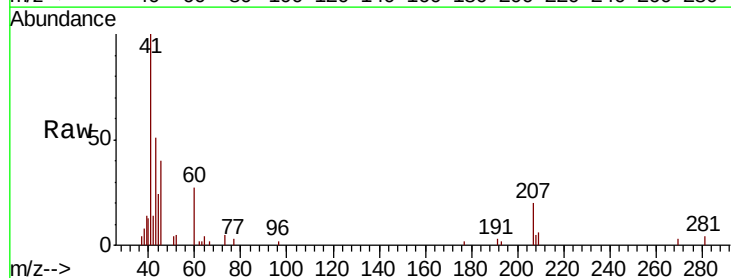
Tot Ion	Ratio	Lower	Upper
43	100		
61	21.0	17.0	25.4
87	13.9	11.0	16.6

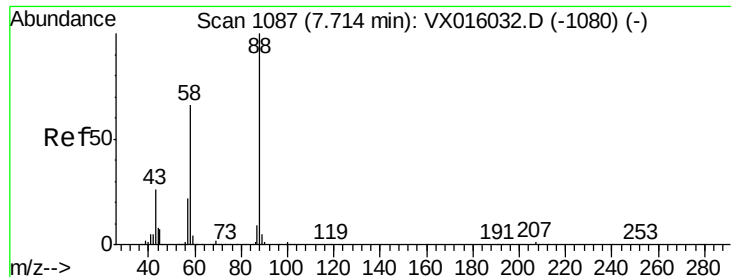


#48

Methyl methacrylate
 Concen: 1.317 ug/l
 RT: 7.65 min Scan# 1077
 Delta R.T. -0.09 min
 Lab File: VX016155.D
 Acq: 11 May 2020 17:35

Tgt Ion	Ratio	Lower	Upper
41	100		
69	0.0	67.8	101.6#
39	0.0	44.6	67.0#





#49

1,4-Dioxane

Concen: 3.522 ug/l

RT: 7.85 min Scan# 1110

Delta R.T. 0.14 min

Lab File: VX016155.D

Acq: 11 May 2020 17:35

Instrument :

MSVOA_X

ClientSampleId :

PB128761ZHE#05

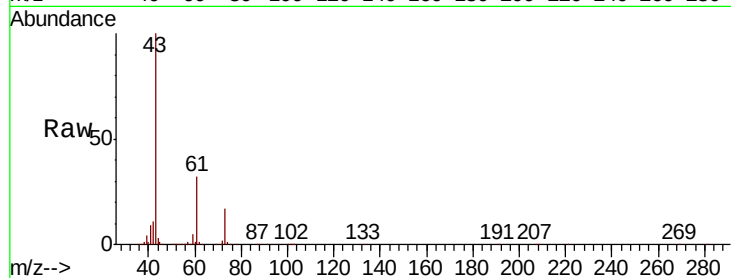
Tot Ion: 88 Resp: 352

Ion Ratio Lower Upper

88 100

43 460039.2 25.3 37.9#

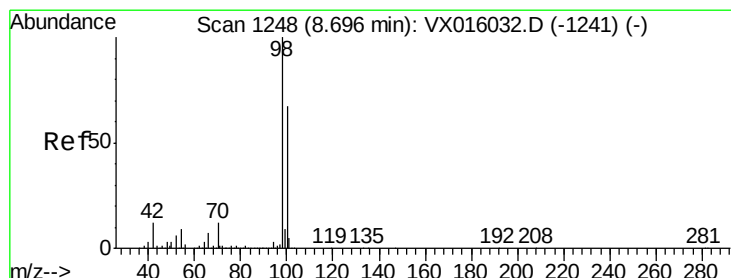
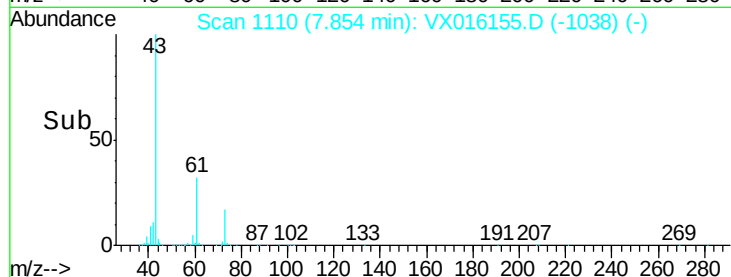
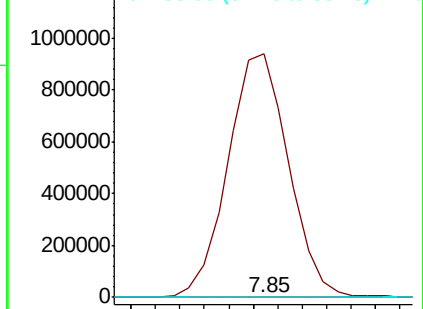
58 1945.5 55.9 83.9#



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: 50.807 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX016155.D

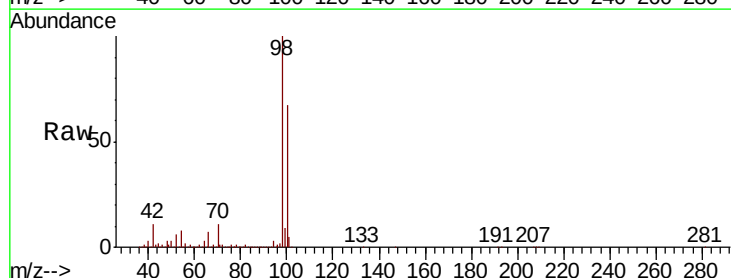
Acq: 11 May 2020 17:35

Tgt Ion: 98 Resp: 599222

Ion Ratio Lower Upper

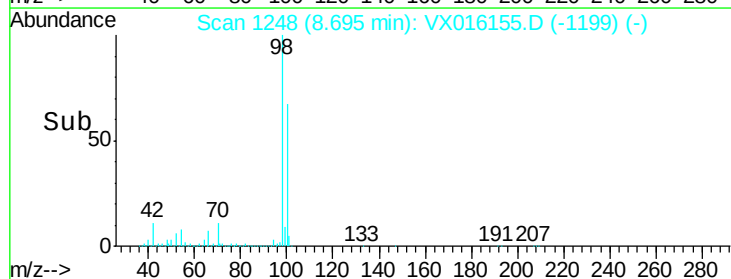
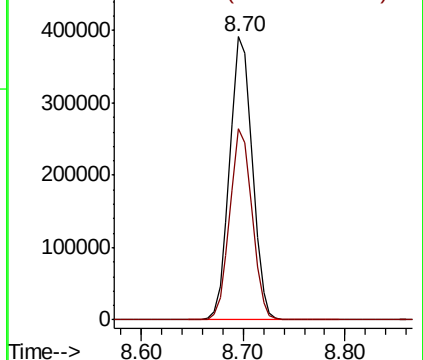
98 100

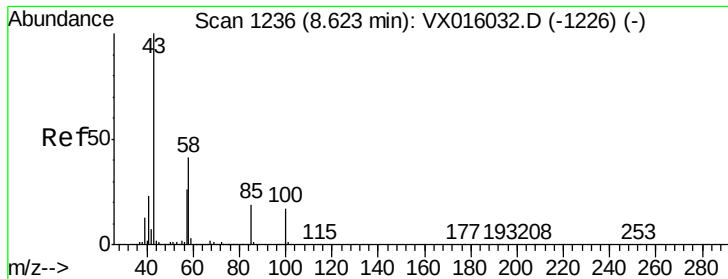
100 66.7 53.7 80.5



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: 16.684 ug/l

RT: 8.59 min Scan# 1231

Delta R.T. -0.03 min

Lab File: VX016155.D

Acq: 11 May 2020 17:35

Instrument :

MSVOA_X

ClientSampleId :

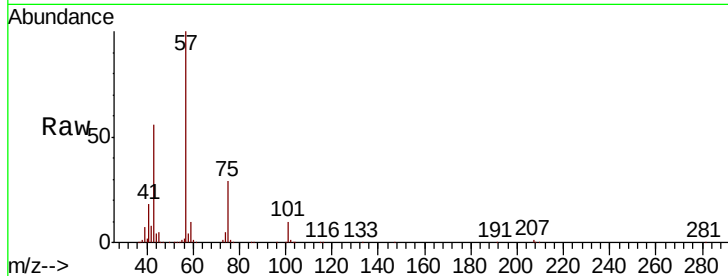
PB128761ZHE#05

Tot Ion: 43 Resp: 89793

Ion Ratio Lower Upper

43 100

58 6.3 33.0 49.4#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

8.59

60000

50000

40000

30000

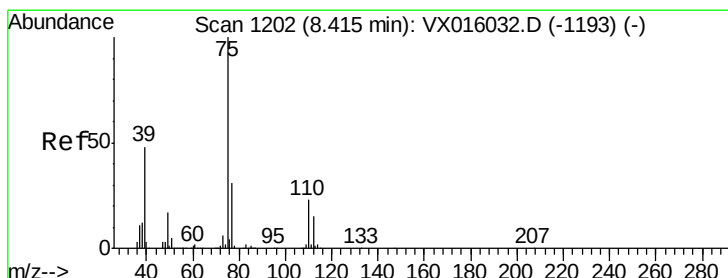
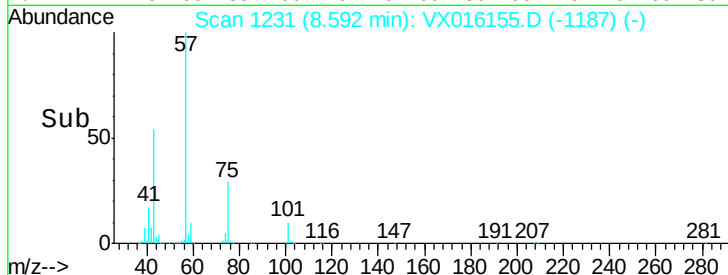
20000

10000

0

8.55 8.60 8.65 8.70

Time-->



#54

cis-1,3-Dichloropropene

Concen: 6.826 ug/l

RT: 8.59 min Scan# 1231

Delta R.T. 0.18 min

Lab File: VX016155.D

Acq: 11 May 2020 17:35

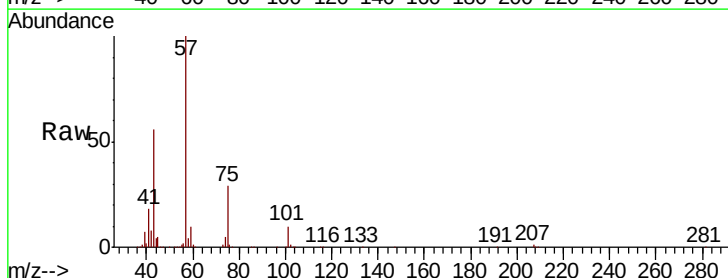
Tgt Ion: 75 Resp: 41427

Ion Ratio Lower Upper

75 100

77 0.6 24.7 37.1#

39 23.8 38.7 58.1#



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

8.59

30000

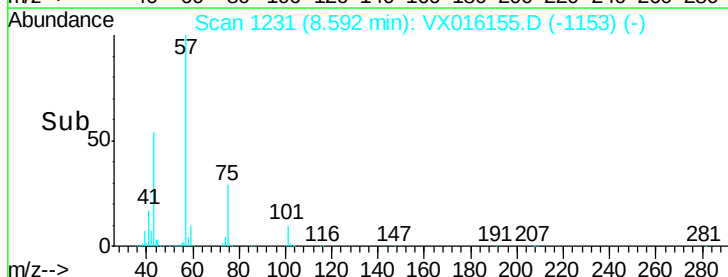
20000

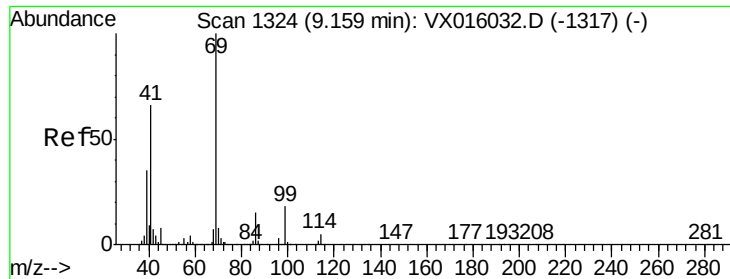
10000

0

8.50 8.55 8.60 8.65

Time-->





#56

Ethyl methacrylate

Concen: 0.236 ug/l

RT: 9.29 min Scan# 1346

Delta R.T. 0.13 min

Lab File: VX016155.D

Acq: 11 May 2020 17:35

Instrument :

MSVOA_X

ClientSampleId :

PB128761ZHE#05

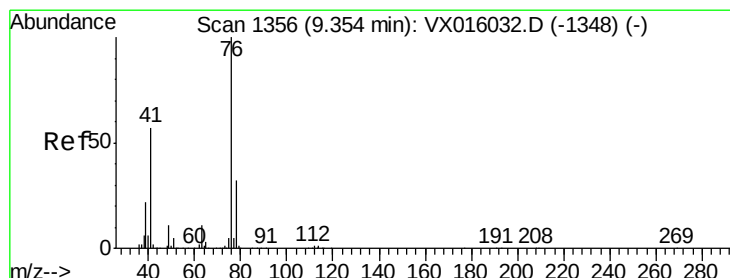
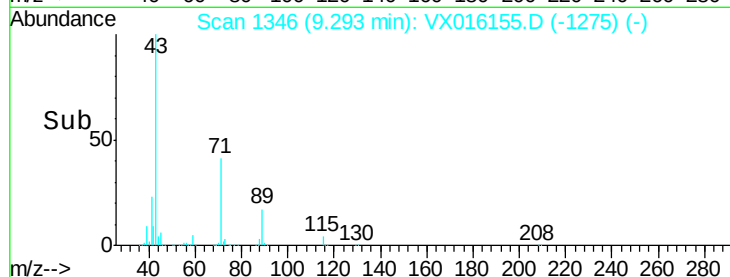
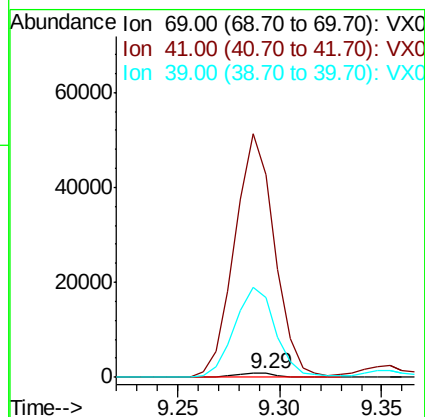
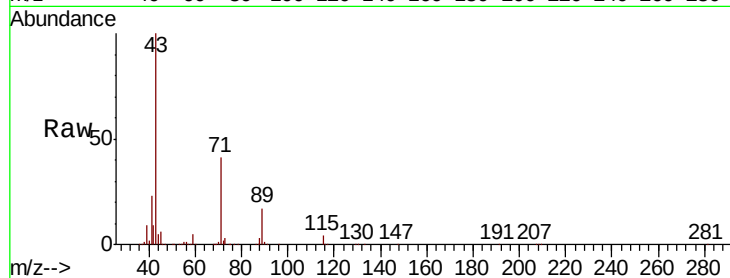
Tot Ion: 69 Resp: 1313

Ion Ratio Lower Upper

69 100

41 5287.4 52.2 78.4#

39 2012.6 28.2 42.4#



#57

1,3-Dichloropropane

Concen: 1.226 ug/l

RT: 9.52 min Scan# 1384

Delta R.T. 0.17 min

Lab File: VX016155.D

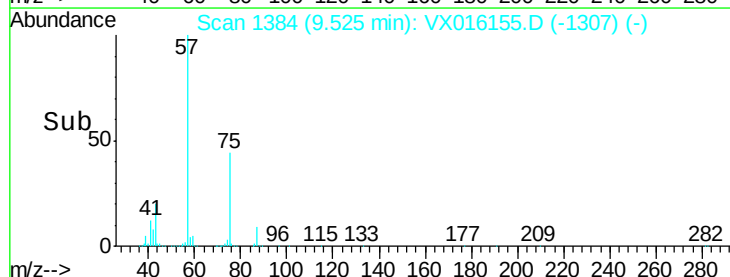
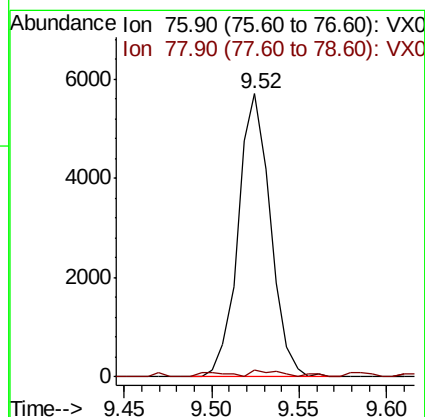
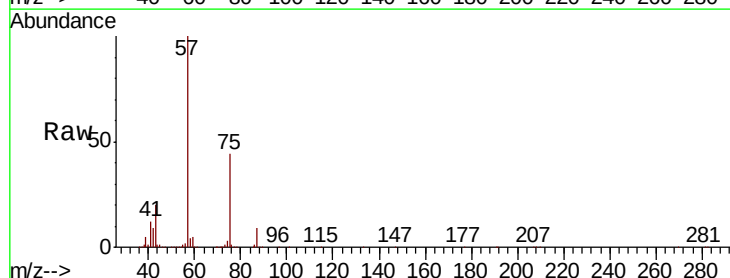
Acq: 11 May 2020 17:35

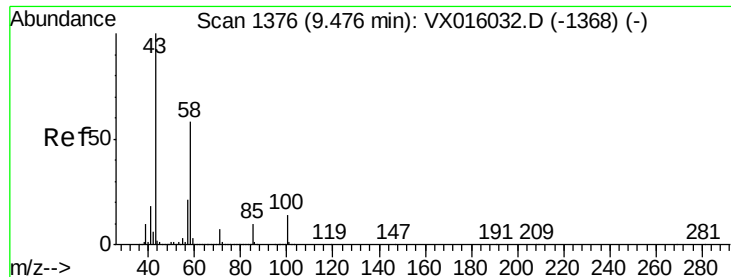
Tgt Ion: 76 Resp: 7300

Ion Ratio Lower Upper

76 100

78 1.9 25.9 38.9#

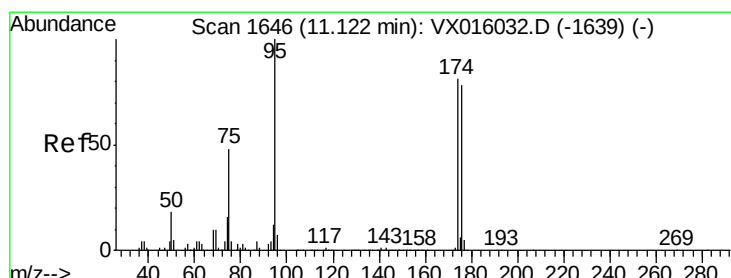
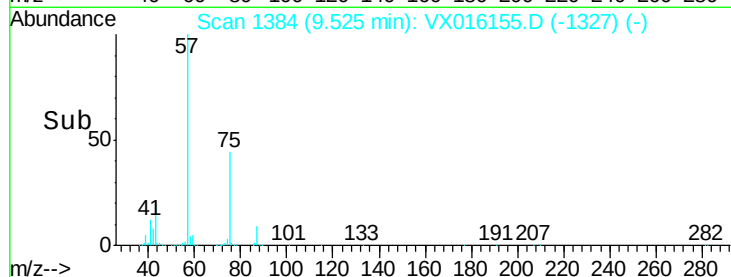
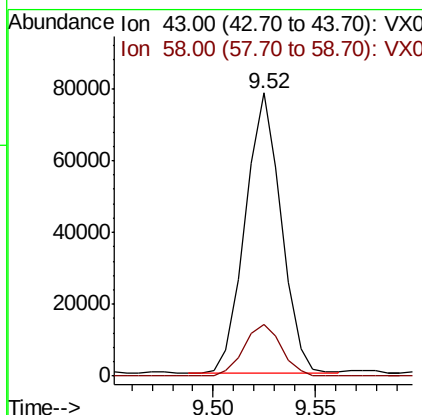
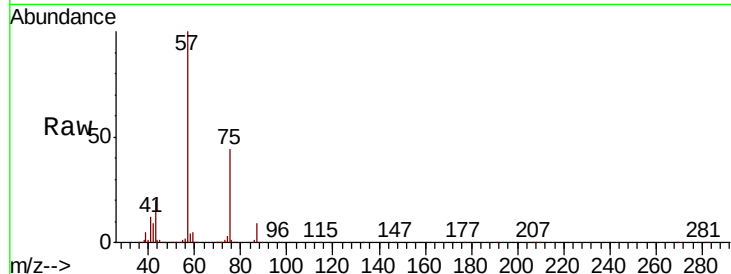




#59
2-Hexanone
Concen: 22.609 ug/l
RT: 9.52 min Scan# 1384
Delta R.T. 0.05 min
Lab File: VX016155.D
Acq: 11 May 2020 17:35

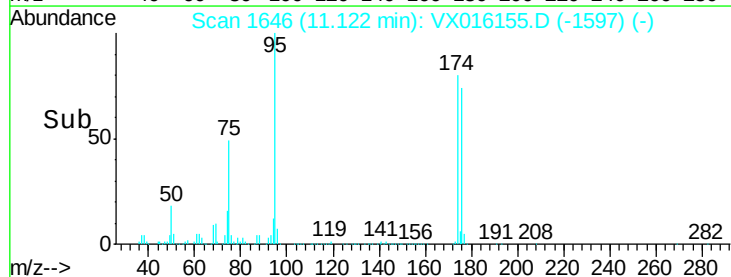
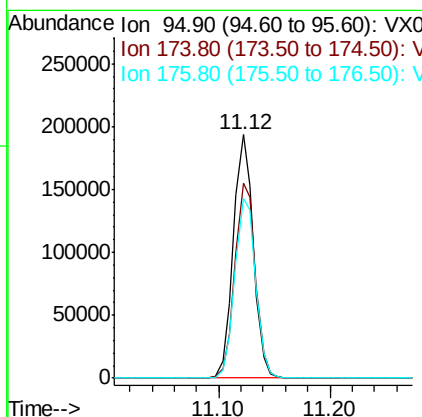
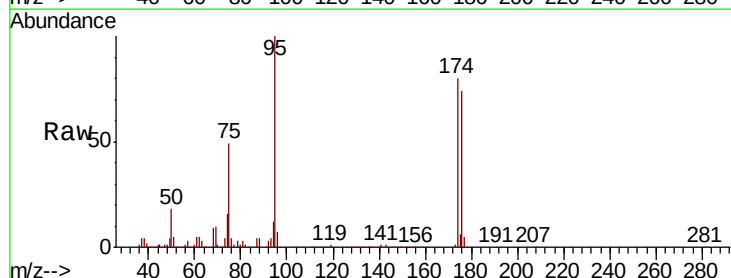
Instrument :
MSVOA_X
ClientSampleId :
PB128761ZHE#05

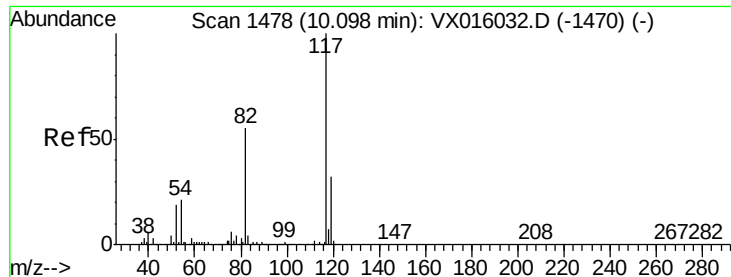
Tot Ion: 43 Resp: 95560
Ion Ratio Lower Upper
43 100
58 19.5 28.6 85.9#



#62
4-Bromofluorobenzene
Concen: 53.274 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. -0.00 min
Lab File: VX016155.D
Acq: 11 May 2020 17:35

Tgt Ion: 95 Resp: 238985
Ion Ratio Lower Upper
95 100
174 82.5 0.0 159.4
176 77.7 0.0 157.6

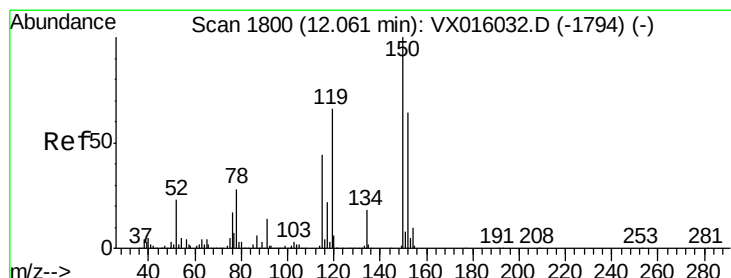
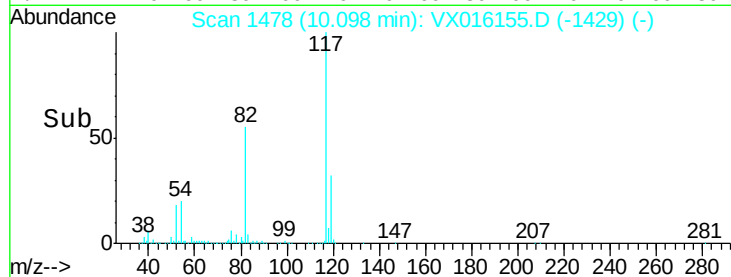
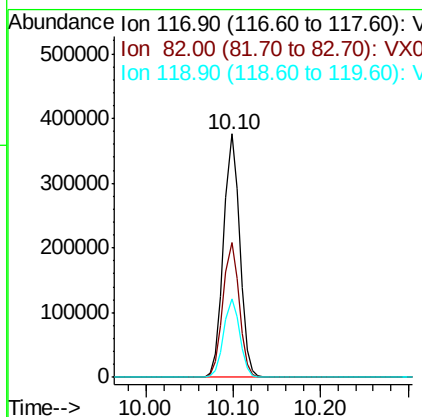
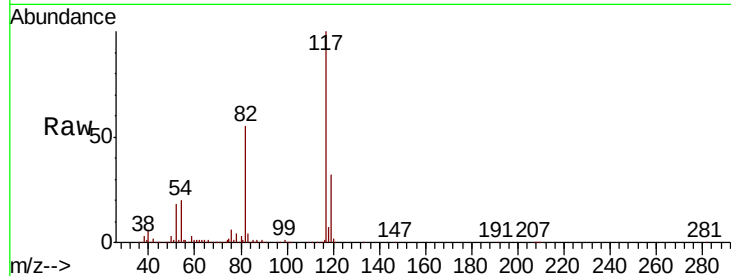




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX016155.D
Acq: 11 May 2020 17:35

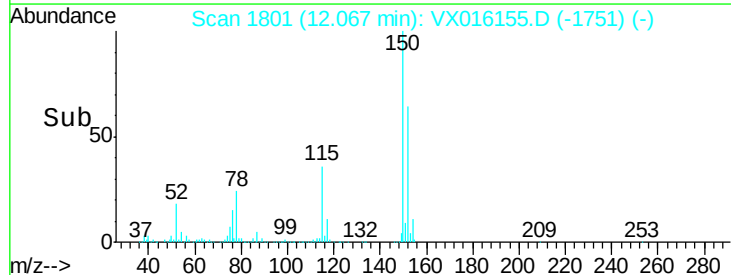
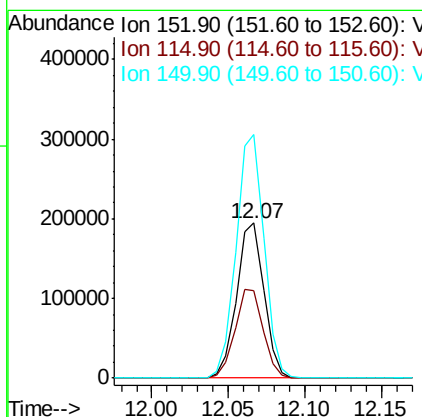
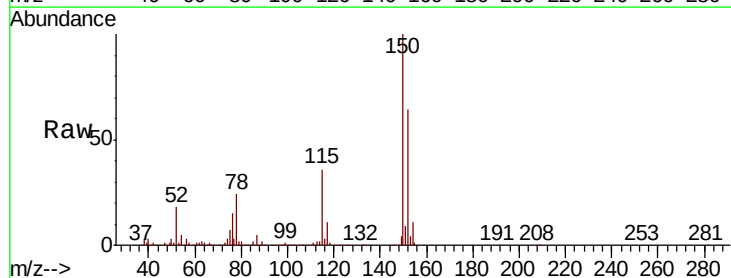
Instrument :
MSVOA_X
ClientSampleId :
PB128761ZHE#05

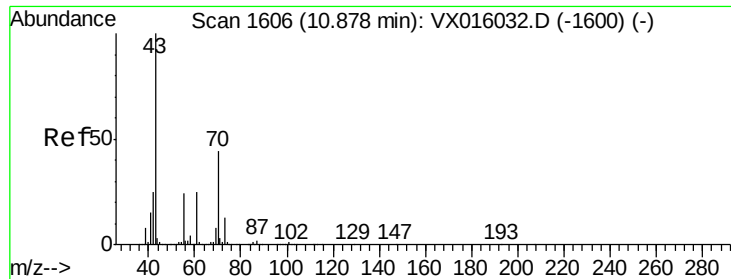
Tot Ion	Ratio	Lower	Upper
117	100		
82	55.2	44.4	66.6
119	32.2	25.5	38.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1801
Delta R.T. 0.01 min
Lab File: VX016155.D
Acq: 11 May 2020 17:35

Tgt Ion	Ratio	Lower	Upper
152	100		
115	58.8	41.3	124.1
150	159.4	0.0	352.2





#74

N-amvl acetate

Concen: 0.553 ug/l

RT: 10.80 min Scan# 1594

Delta R.T. -0.07 min

Lab File: VX016155.D

Acq: 11 May 2020 17:35

Instrument :

MSVOA_X

ClientSampleId :

PB128761ZHE#05

Tot Ion: 43 Resp: 4534

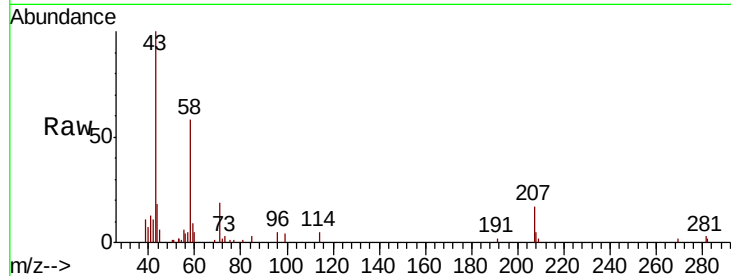
Ion Ratio Lower Upper

43 100

70 0.0 36.5 54.7#

55 12.0 19.7 29.5#

61 0.0 20.9 31.3#

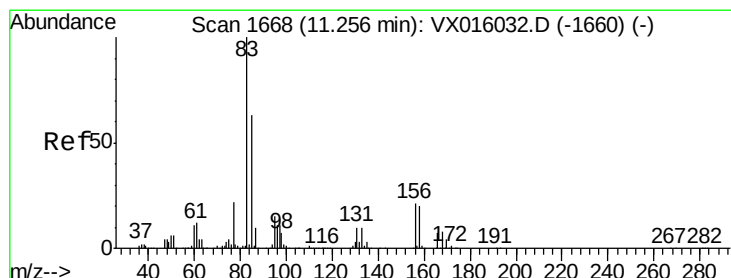
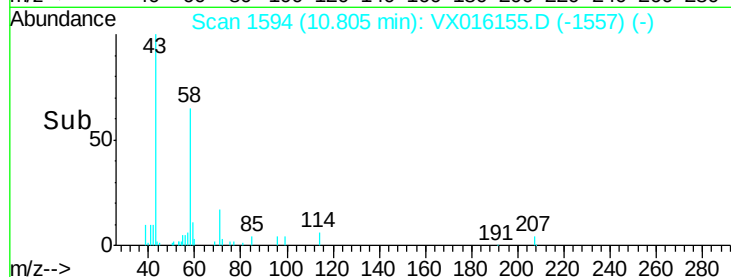
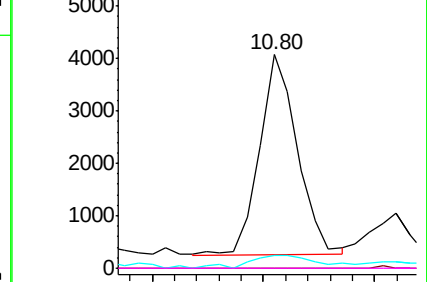


Abundance Ion 43.00 (42.70 to 43.70): VX0

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



#75

1,1,2,2-Tetrachloroethane

Concen: 2.055 ug/l

RT: 11.28 min Scan# 1672

Delta R.T. 0.02 min

Lab File: VX016155.D

Acq: 11 May 2020 17:35

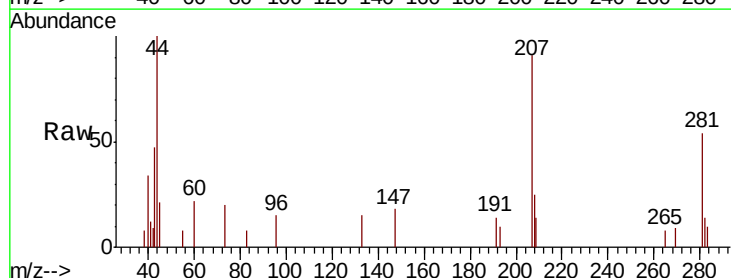
Tgt Ion: 83 Resp: 20

Ion Ratio Lower Upper

83 100

131 0.0 5.1 15.4#

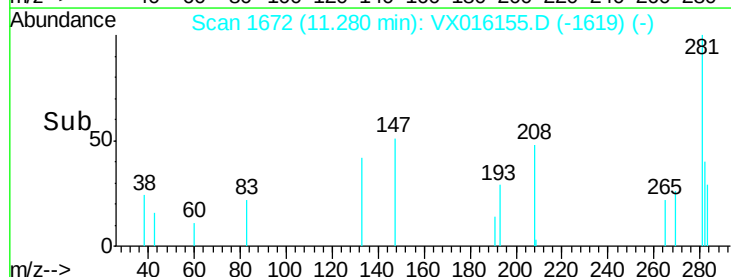
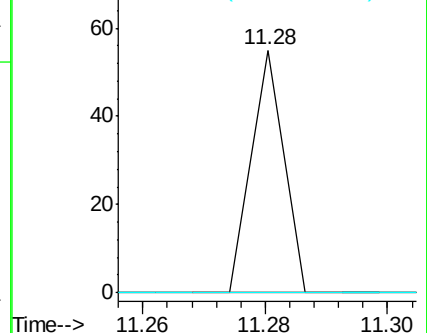
85 0.0 32.0 96.0#

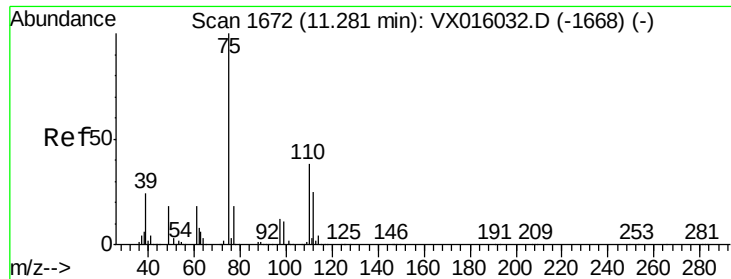


Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VX0

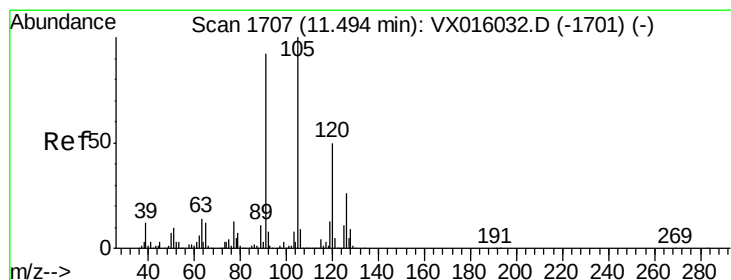
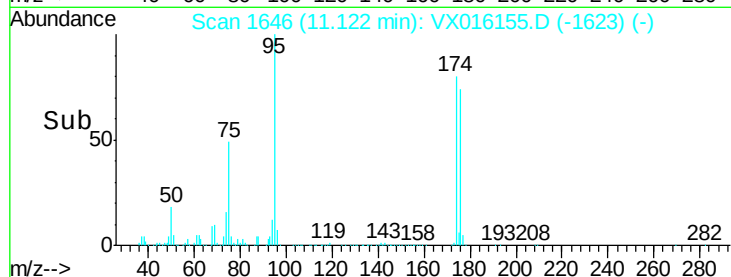
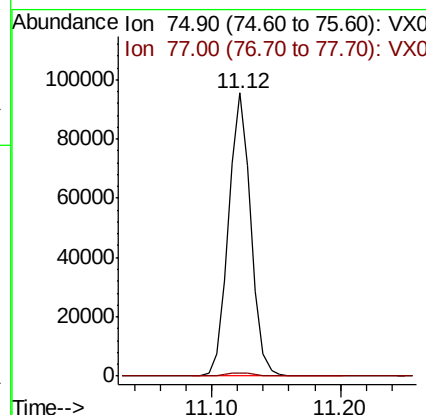
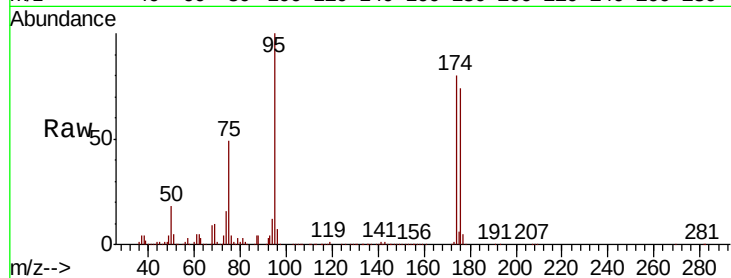




#76
 1,2,3-Trichloropropane
 Concen: 21.237 ug/l
 RT: 11.12 min Scan# 1646
 Delta R.T. -0.16 min
 Lab File: VX016155.D
 Acq: 11 May 2020 17:35

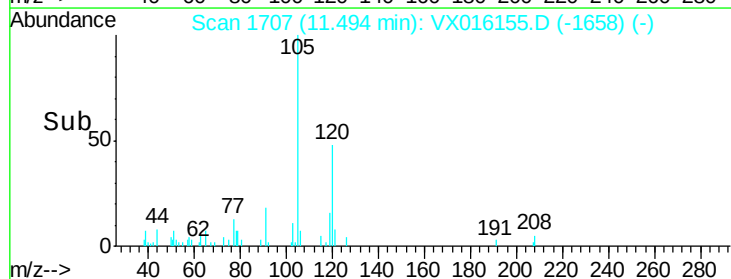
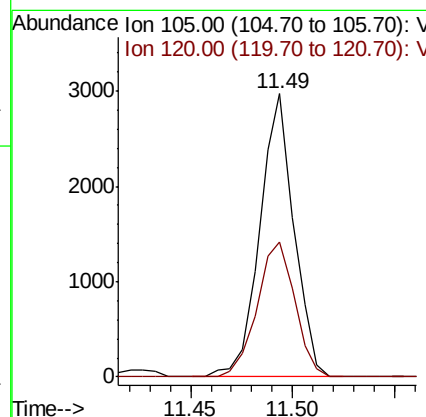
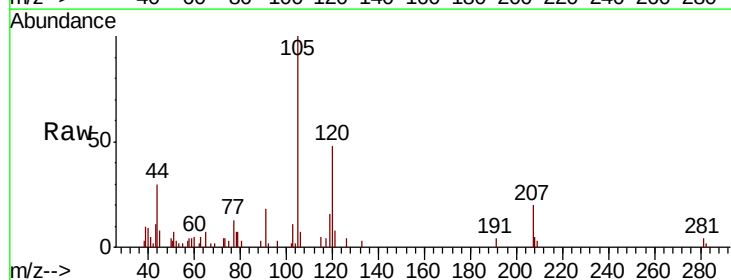
Instrument :
 MSVOA_X
 ClientSampleId :
 PB128761ZHE#05

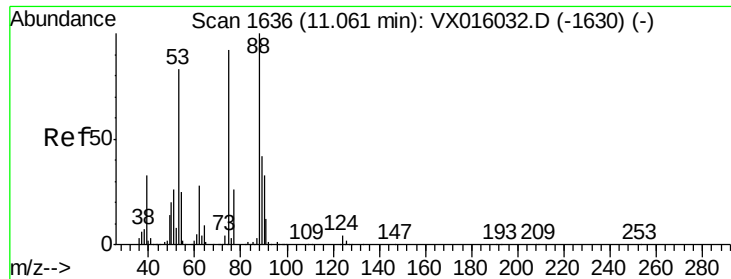
Tot Ion: 75 Resp: 116470
 Ion Ratio Lower Upper
 75 100
 77 1.3 21.2 63.6#



#80
 1,3,5-Trimethylbenzene
 Concen: 0.233 ug/l
 RT: 11.49 min Scan# 1707
 Delta R.T. -0.00 min
 Lab File: VX016155.D
 Acq: 11 May 2020 17:35

Tgt Ion: 105 Resp: 3463
 Ion Ratio Lower Upper
 105 100
 120 52.5 24.6 74.0





#81

trans-1,4-Dichloro-2-butene

Concen: 50.609 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX016155.D

Acq: 11 May 2020 17:35

Instrument :

MSVOA_X

ClientSampleId :

PB128761ZHE#05

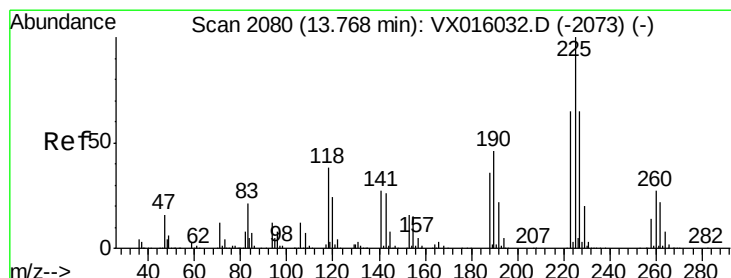
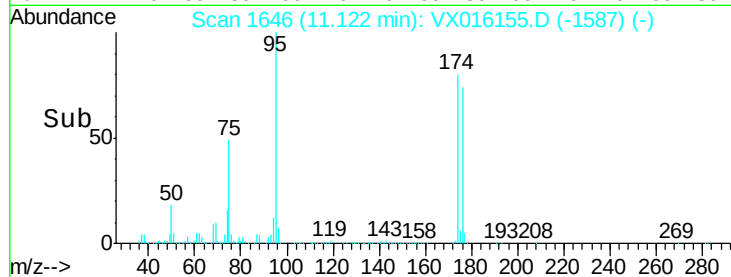
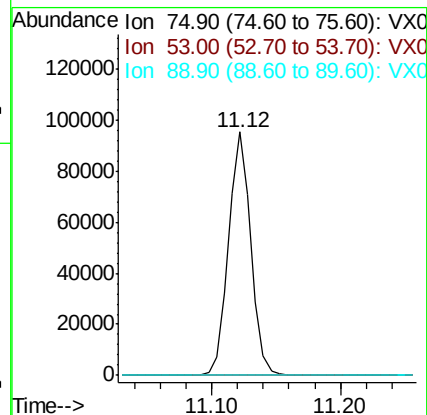
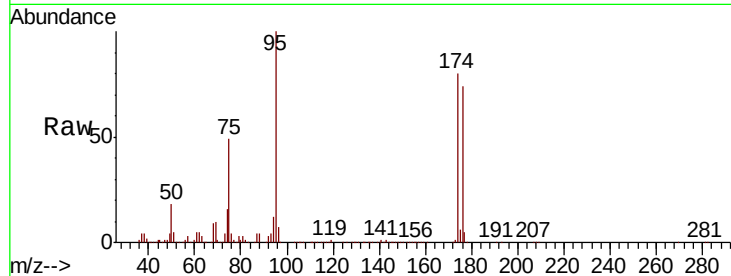
Tot Ion: 75 Resp: 116470

Ion Ratio Lower Upper

75 100

53 0.1 73.1 109.7#

89 0.0 36.7 55.1#



#94

Hexachlorobutadiene

Concen: 0.550 ug/l

RT: 13.77 min Scan# 2081

Delta R.T. 0.01 min

Lab File: VX016155.D

Acq: 11 May 2020 17:35

Tgt Ion: 225 Resp: 67

Ion Ratio Lower Upper

225 100

223 28.4 32.3 96.9#

227 0.0 31.8 95.4#

