

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX040620\
 Data File : VX015505.D
 Acq On : 06 Apr 2020 12:25
 Operator : JC/SP
 Sample : PB127956TB
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB127956TB

Quant Time: Apr 07 04:58:24 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X032720W.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 27 09:35:51 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	1144033	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	1808548	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	1730764	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	948700	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	748235	46.37	ug/l	0.00
Spiked Amount			Recovery	=	92.74%	
35) Dibromofluoromethane	5.47	113	570955	49.39	ug/l	0.00
Spiked Amount			Recovery	=	98.78%	
50) Toluene-d8	8.70	98	2210821	51.94	ug/l	0.00
Spiked Amount			Recovery	=	103.88%	
62) 4-Bromofluorobenzene	11.12	95	960595	55.53	ug/l	0.00
Spiked Amount			Recovery	=	111.06%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.18	85	2687	0.267	ug/l #	52
5) Bromomethane	1.65	94	1319	Below Cal	#	28
10) Methyl Iodide	2.50	142	3397	0.245	ug/l #	81
11) Tert butyl alcohol	3.00	59	7051	1.826	ug/l #	73
13) Acrolein	2.33	56	605	0.275	ug/l #	46
16) Acetone	2.42	43	44432	6.410	ug/l	100
17) Carbon Disulfide	2.55	76	8732	0.265	ug/l #	90
18) Methyl Acetate	2.75	43	12415	0.702	ug/l #	88
20) Methylene Chloride	2.84	84	13479	1.041	ug/l	89
25) 2-Butanone	4.65	43	20609	1.849	ug/l	94
36) 1,1-Dichloropropene	5.63	75	83396	5.005	ug/l #	52
38) Carbon Tetrachloride	5.64	117	111977	6.204	ug/l #	14
43) Isopropyl Acetate	6.42	43	361685	9.875	ug/l	99
48) Methyl methacrylate	7.65	41	18452	1.009	ug/l #	20
49) 1,4-Dioxane	7.70	88	351	1.028	ug/l #	1
51) 4-Methyl-2-Pentanone	8.59	43	354296	17.068	ug/l #	51
54) cis-1,3-Dichloropropene	8.59	75	141419	6.342	ug/l #	54
59) 2-Hexanone	9.42	43	329031	20.996	ug/l #	27
74) N-amyl acetate	10.81	43	16856	0.488	ug/l #	53
76) 1,2,3-Trichloropropane	11.12	75	493200	25.280	ug/l #	35
80) 1,3,5-Trimethylbenzene	11.49	105	18937	0.357	ug/l	96
81) trans-1,4-Dichloro-2-buten	11.12	75	493200	60.659	ug/l #	10
93) 1,2,4-Trichlorobenzene	13.63	180	7236	0.315	ug/l #	87
94) Hexachlorobutadiene	13.76	225	3790	0.346	ug/l	94
95) Naphthalene	13.82	128	14197	0.203	ug/l #	90
96) 1,2,3-Trichlorobenzene	14.01	180	5840	0.264	ug/l	93

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 778

Delta R.T. -0.00 min

Lab File: VX015505.D

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Instrument :

MSVOA_X

ClientSampleId :

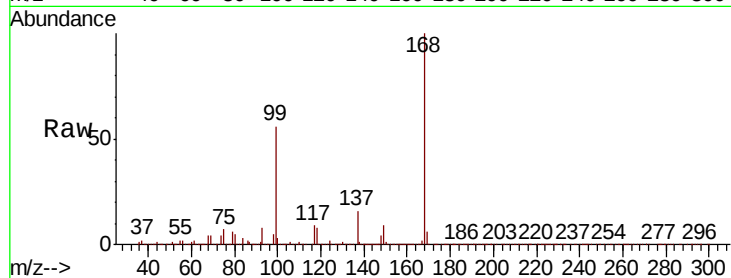
PB127956TB

Tot Ion:168 Resp: 1144033

Ion Ratio Lower Upper

168 100

99 55.5 46.4 69.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

400000

300000

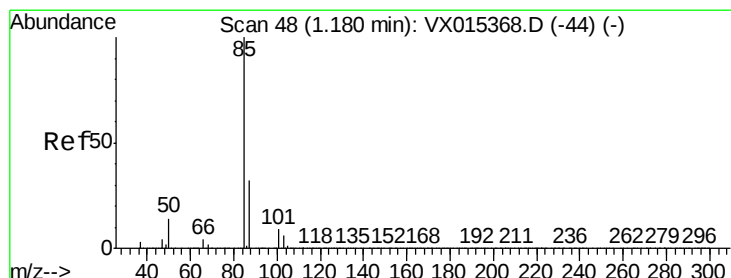
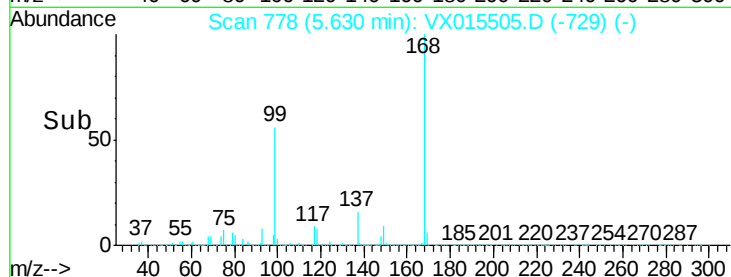
200000

100000

0

5.50 5.60 5.70 5.80

Time-->



#2

Dichlorodifluoromethane

Concen: 0.267 ug/l

RT: 1.18 min Scan# 48

Delta R.T. -0.00 min

Lab File: VX015505.D

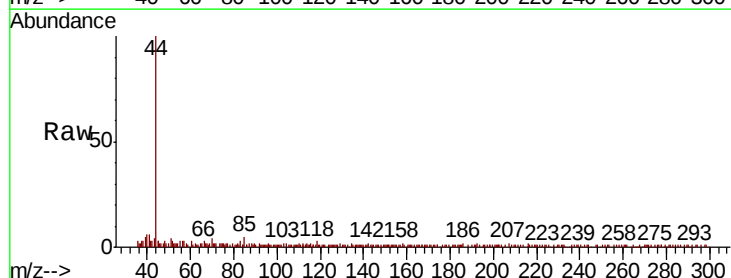
Acq: 06 Apr 2020 12:25

Tgt Ion: 85 Resp: 2687

Ion Ratio Lower Upper

85 100

87 5.1 16.0 47.9#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.18

800

600

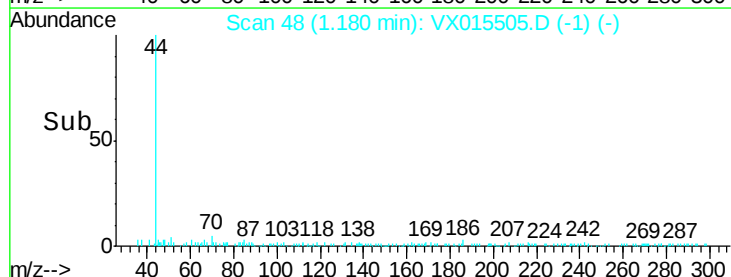
400

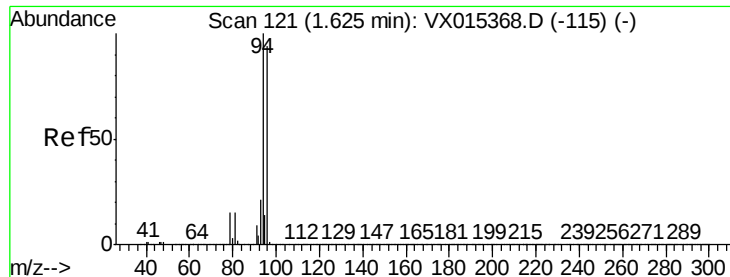
200

0

1.10 1.15 1.20 1.25

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 125

Delta R.T. 0.03 min

Lab File: VX015505.D

Acq: 06 Apr 2020 12:25

Instrument :

MSVOA_X

ClientSampled :

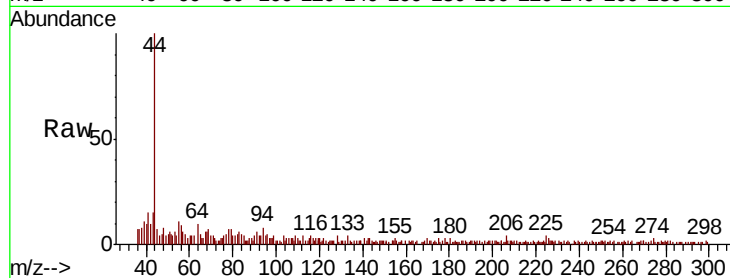
PB127956TB

Tot Ion: 94 Resp: 1319

Ion Ratio Lower Upper

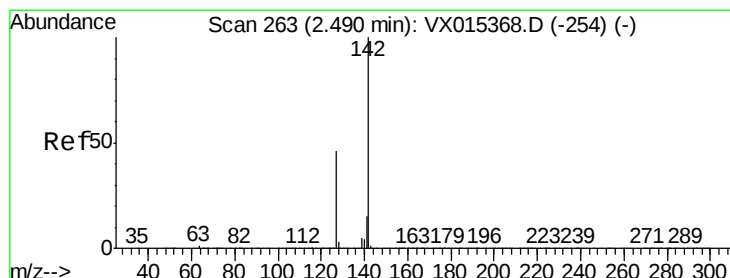
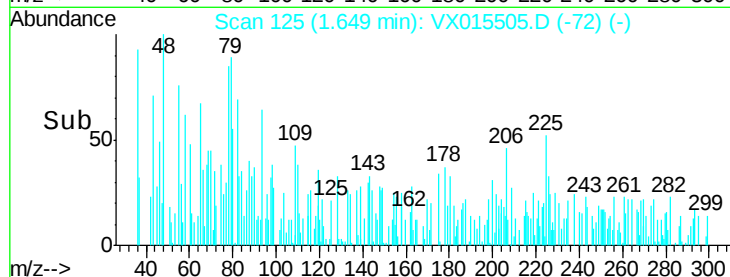
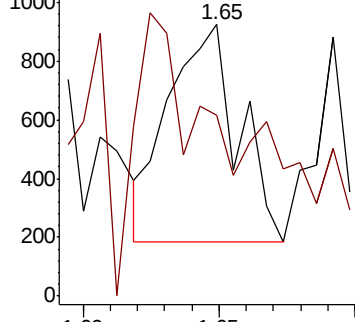
94 100

96 24.6 74.8 112.2#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#10

Methyl Iodide

Concen: 0.245 ug/l

RT: 2.50 min Scan# 264

Delta R.T. 0.01 min

Lab File: VX015505.D

Acq: 06 Apr 2020 12:25

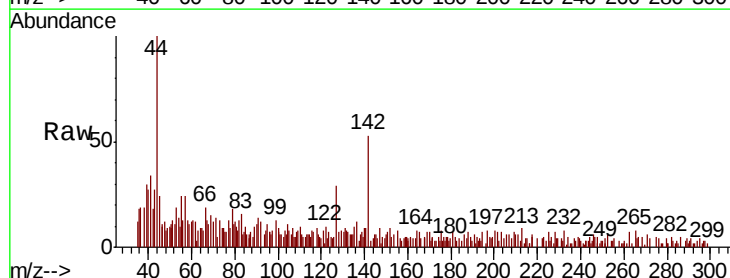
Tgt Ion: 142 Resp: 3397

Ion Ratio Lower Upper

142 100

127 58.8 35.9 53.9#

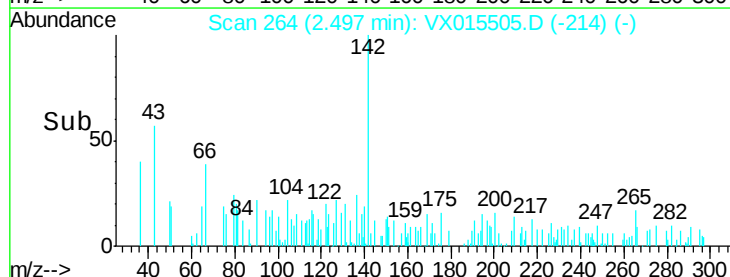
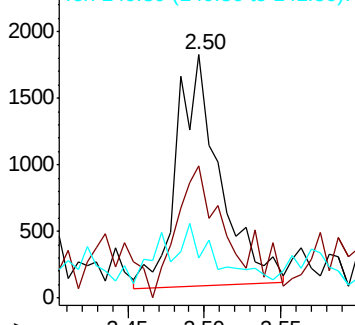
141 18.6 11.6 17.4#

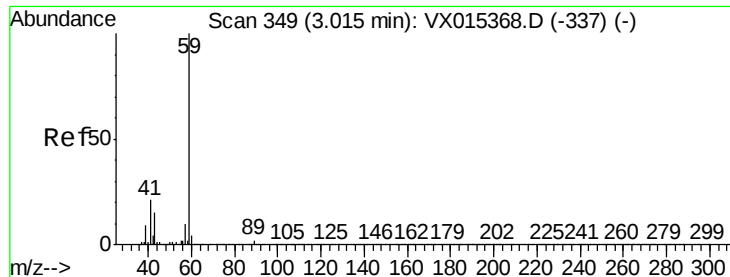


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



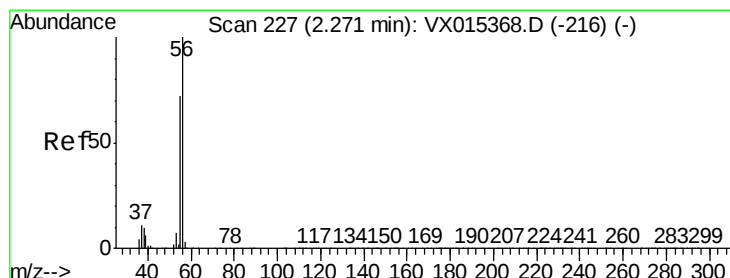
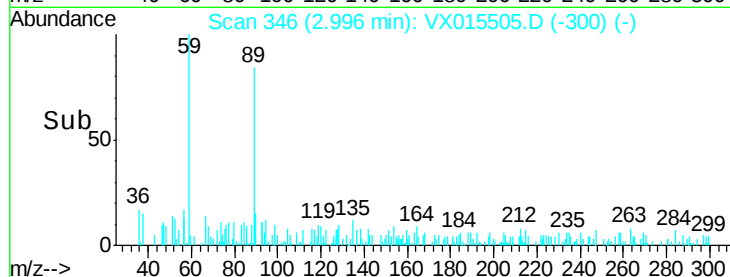
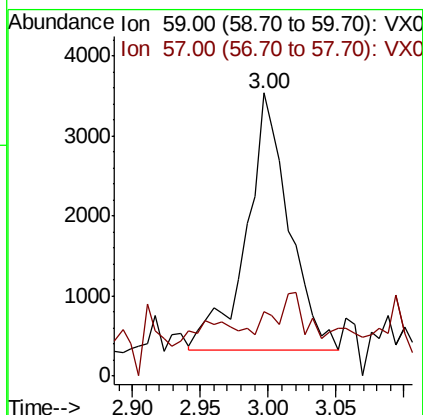
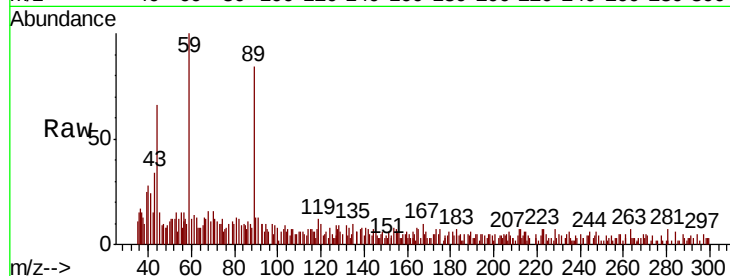


#11

Tert butyl alcohol
Concen: 1.826 ug/l
RT: 3.00 min Scan# 346
Delta R.T. -0.02 min
Lab File: VX015505.D
Acq: 06 Apr 2020 12:25

Instrument :
MSVOA_X
ClientSampled :
PB127956TB

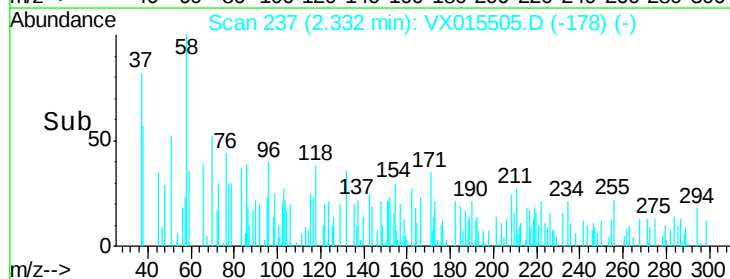
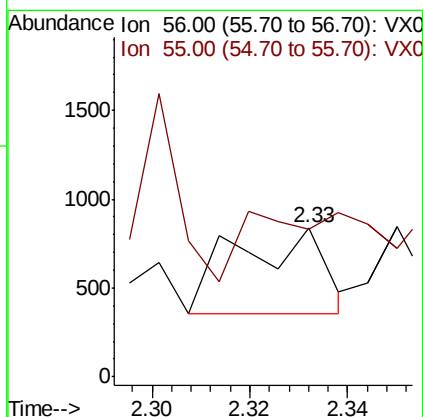
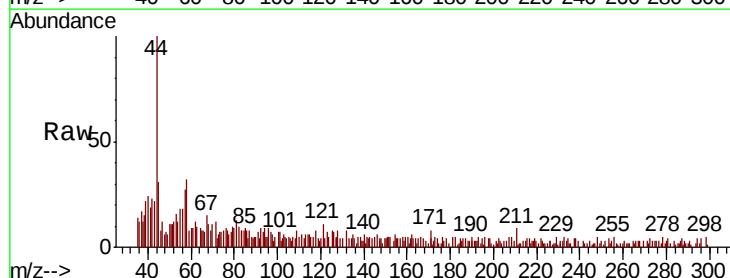
Tot Ion: 59 Resp: 7051
Ion Ratio Lower Upper
59 100
57 0.0 8.1 12.1#

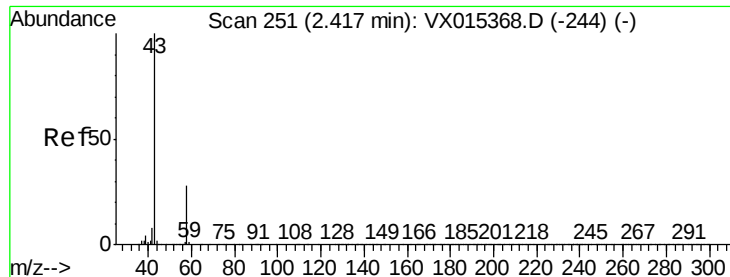


#13

Acrolein
Concen: 0.275 ug/l
RT: 2.33 min Scan# 237
Delta R.T. 0.06 min
Lab File: VX015505.D
Acq: 06 Apr 2020 12:25

Tgt Ion: 56 Resp: 605
Ion Ratio Lower Upper
56 100
55 115.9 57.0 85.4#





#16

Acetone

Concen: 6.410 ug/l

RT: 2.42 min Scan# 251

Delta R.T. -0.00 min

Lab File: VX015505.D

Acq: 06 Apr 2020 12:25

Instrument :

MSVOA_X

ClientSampleId :

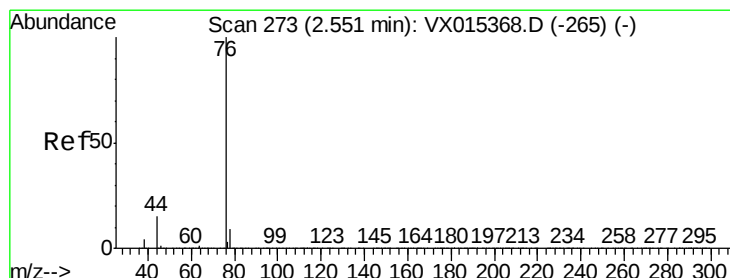
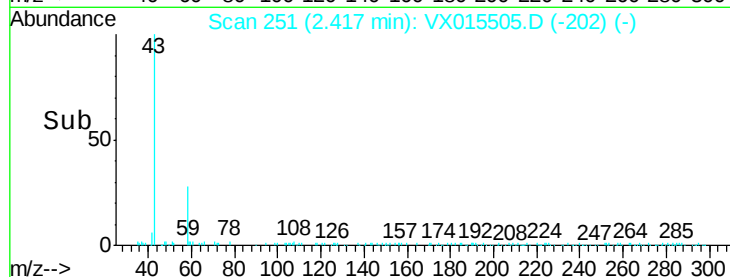
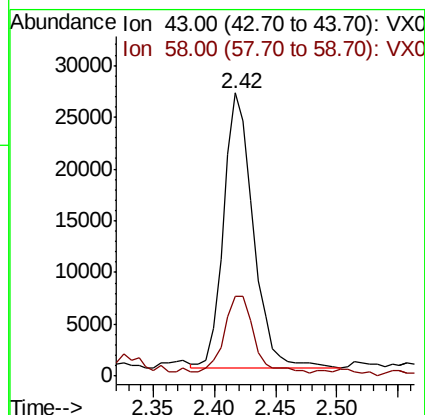
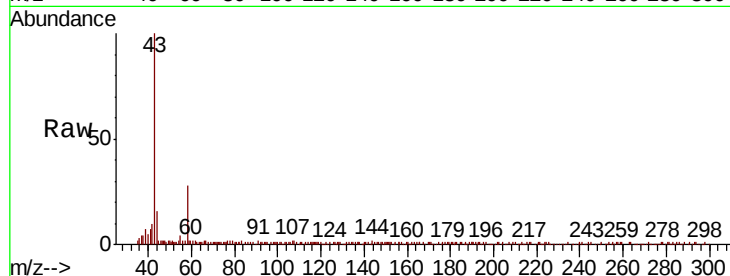
PB127956TB

Tot Ion: 43 Resp: 44432

Ion Ratio Lower Upper

43 100

58 27.8 22.1 33.1



#17

Carbon Disulfide

Concen: 0.265 ug/l

RT: 2.55 min Scan# 273

Delta R.T. -0.00 min

Lab File: VX015505.D

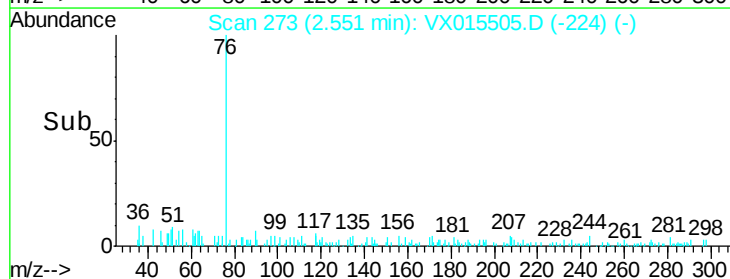
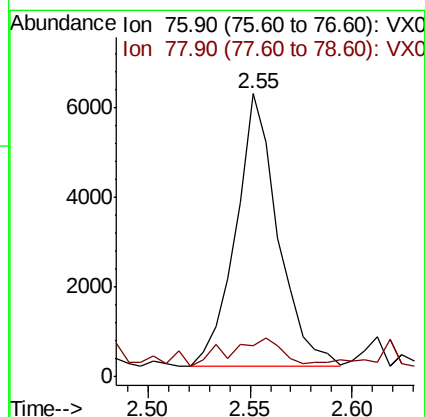
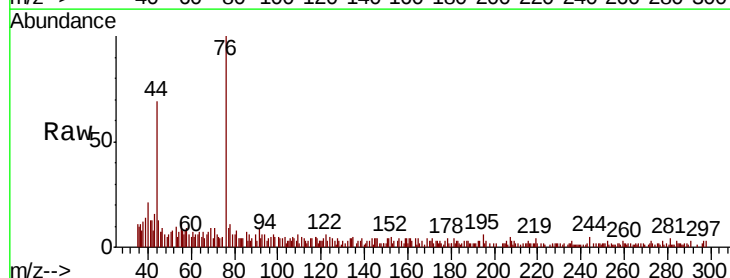
Acq: 06 Apr 2020 12:25

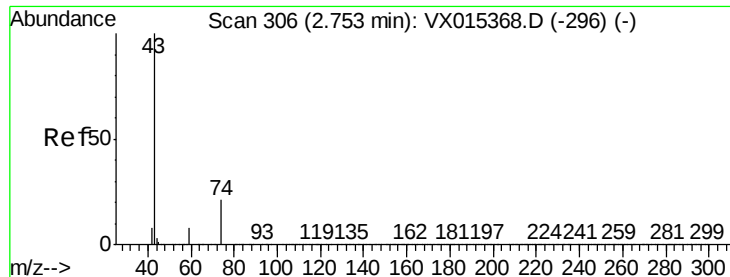
Tgt Ion: 76 Resp: 8732

Ion Ratio Lower Upper

76 100

78 5.3 7.1 10.7#

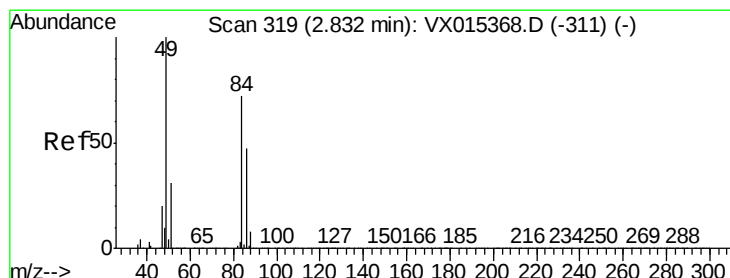
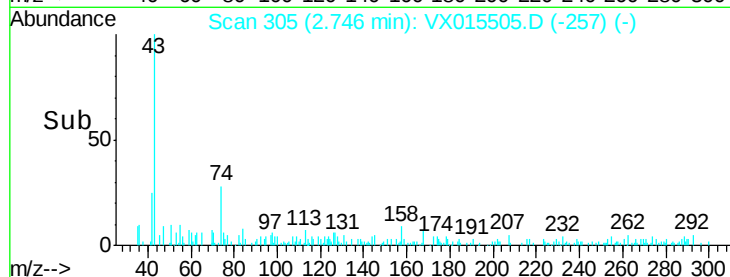
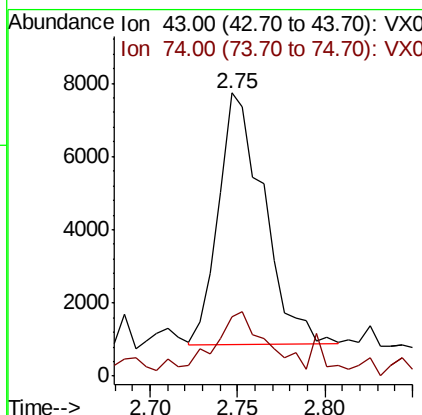
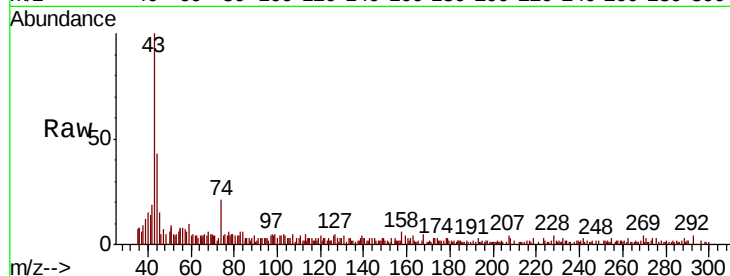




#18
Methyl Acetate
Concen: 0.702 ug/l
RT: 2.75 min Scan# 305
Delta R.T. -0.01 min
Lab File: VX015505.D
Acq: 06 Apr 2020 12:25

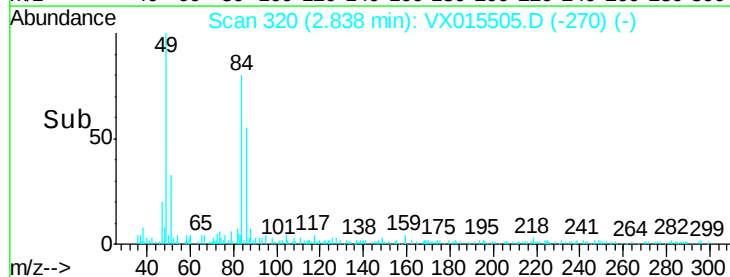
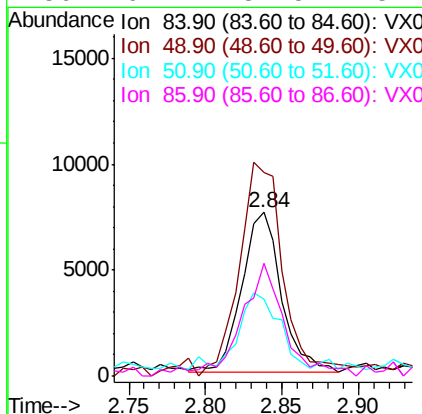
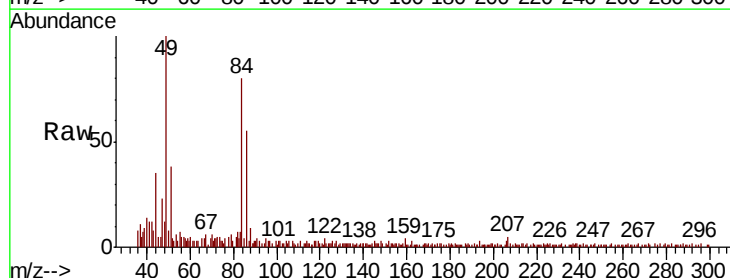
Instrument :
MSVOA_X
ClientSampleId :
PB127956TB

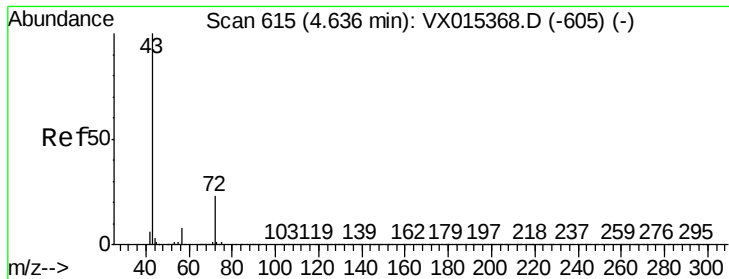
Tot Ion: 43 Resp: 12415
Ion Ratio Lower Upper
43 100
74 26.1 16.5 24.7#



#20
Methylene Chloride
Concen: 1.041 ug/l
RT: 2.84 min Scan# 320
Delta R.T. 0.01 min
Lab File: VX015505.D
Acq: 06 Apr 2020 12:25

Tgt Ion: 84 Resp: 13479
Ion Ratio Lower Upper
84 100
49 116.6 111.3 166.9
51 43.9 34.0 51.0
86 67.1 52.5 78.7





#25

2-Butanone

Concen: 1.849 ug/l

RT: 4.65 min Scan# 618

Delta R.T. 0.02 min

Lab File: VX015505.D

Acq: 06 Apr 2020 12:25

Instrument :

MSVOA_X

ClientSampled :

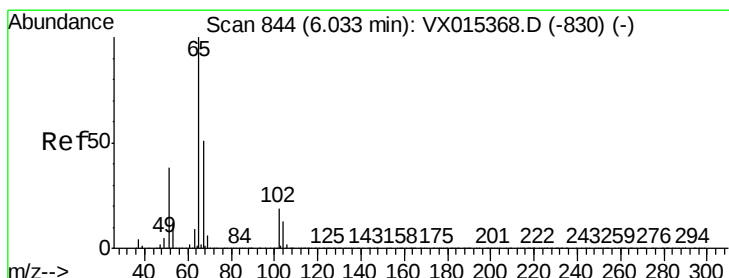
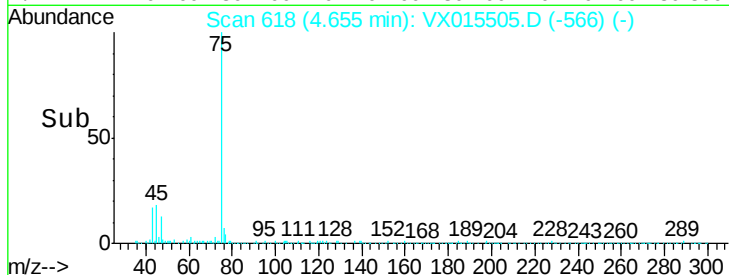
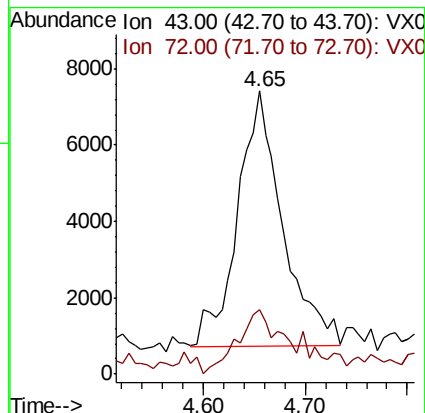
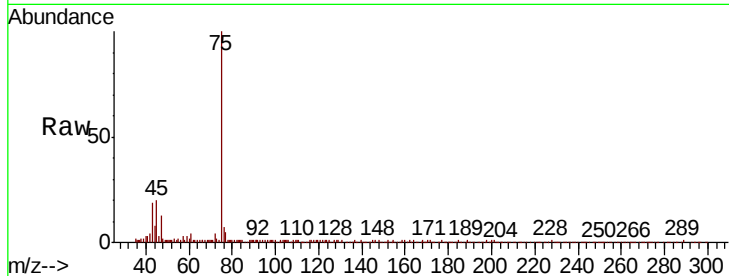
PB127956TB

Tot Ion: 43 Resp: 20609

Ion Ratio Lower Upper

43 100

72 20.9 19.0 28.4



#33

1,2-Dichloroethane-d4

Concen: 46.372 ug/l

RT: 6.03 min Scan# 844

Delta R.T. -0.00 min

Lab File: VX015505.D

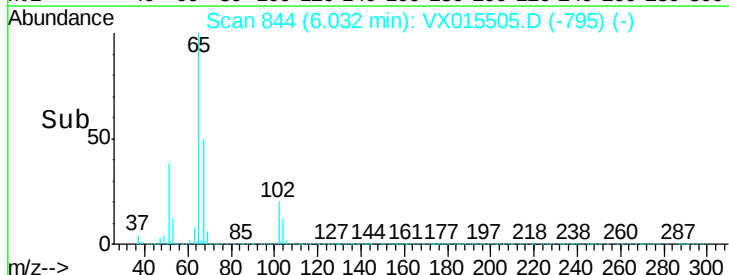
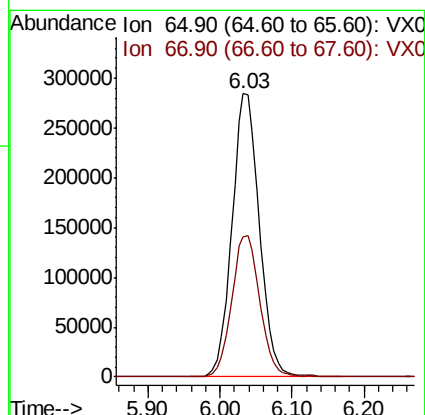
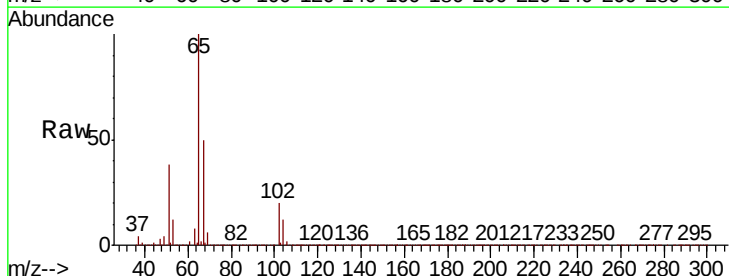
Acq: 06 Apr 2020 12:25

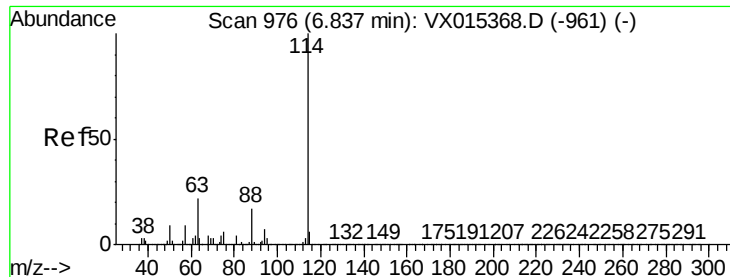
Tgt Ion: 65 Resp: 748235

Ion Ratio Lower Upper

65 100

67 51.0 0.0 102.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.83 min Scan# 975

Delta R.T. -0.01 min

Lab File: VX015505.D

Acq: 06 Apr 2020 12:25

Instrument :

MSVOA_X

ClientSampleId :

PB127956TB

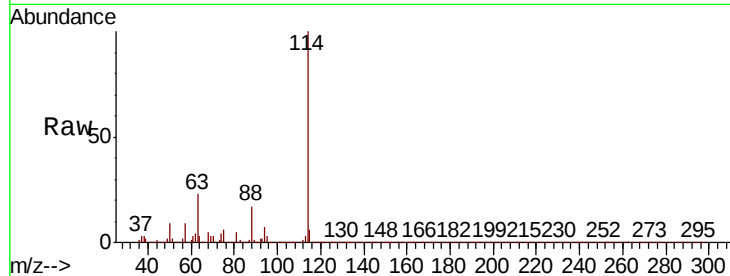
Tot Ion:114 Resp: 1808548

Ion Ratio Lower Upper

114 100

63 22.9 0.0 44.2

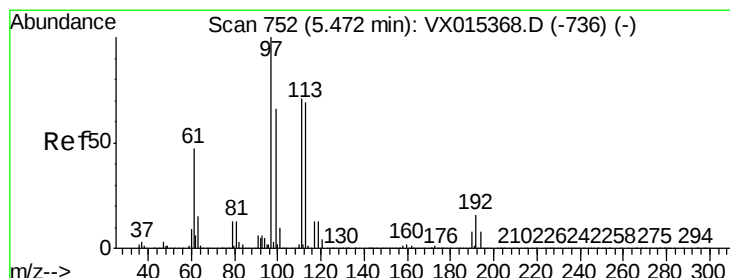
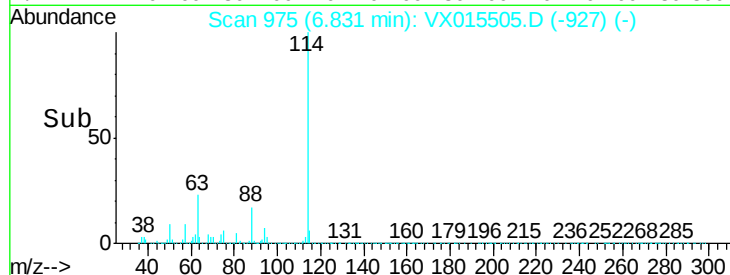
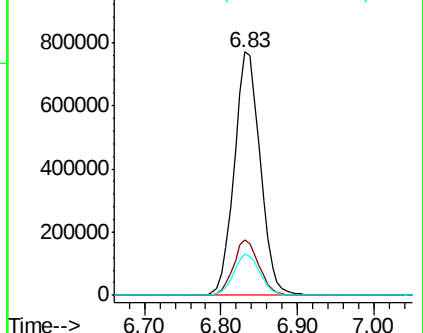
88 16.8 0.0 33.8



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: 49.387 ug/l

RT: 5.47 min Scan# 752

Delta R.T. -0.00 min

Lab File: VX015505.D

Acq: 06 Apr 2020 12:25

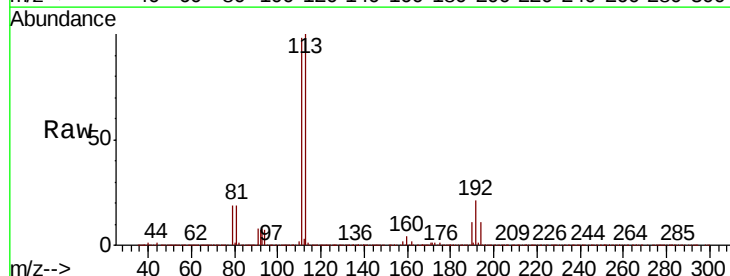
Tgt Ion:113 Resp: 570955

Ion Ratio Lower Upper

113 100

111 102.8 81.5 122.3

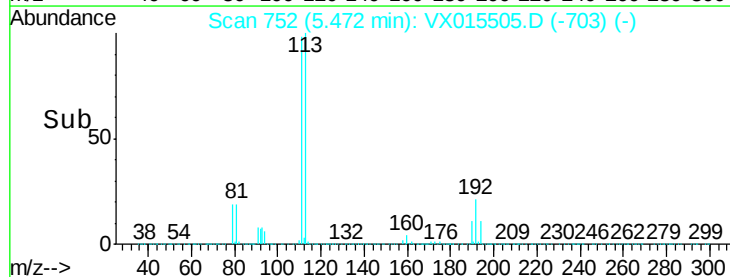
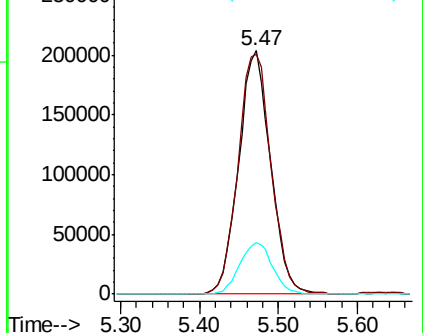
192 21.9 17.8 26.6

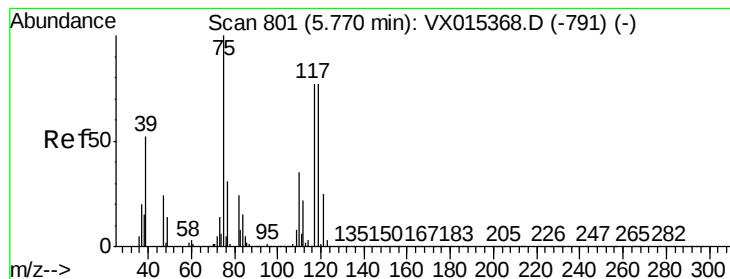


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.005 ug/l

RT: 5.63 min Scan# 778

Delta R.T. -0.14 min

Lab File: VX015505.D

Acq: 06 Apr 2020 12:25

Instrument :

MSVOA_X

ClientSampleId :

PB127956TB

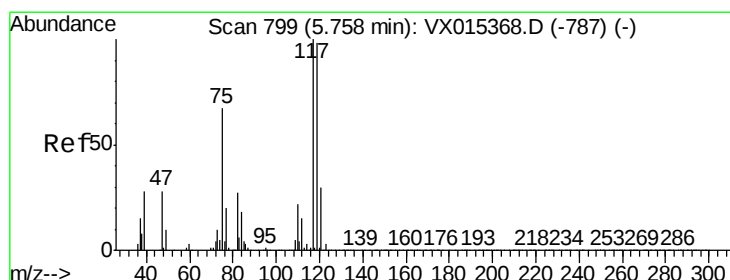
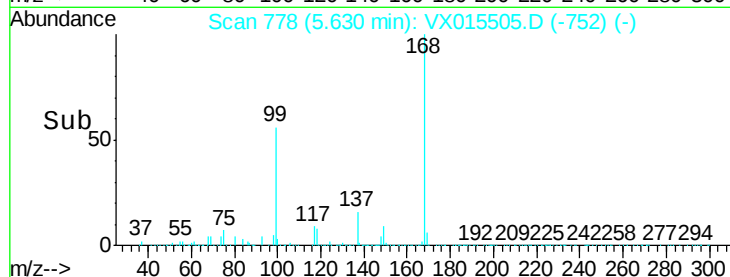
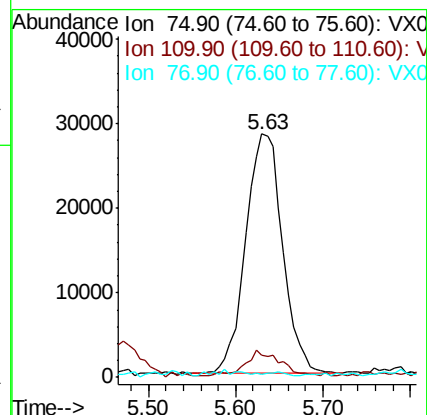
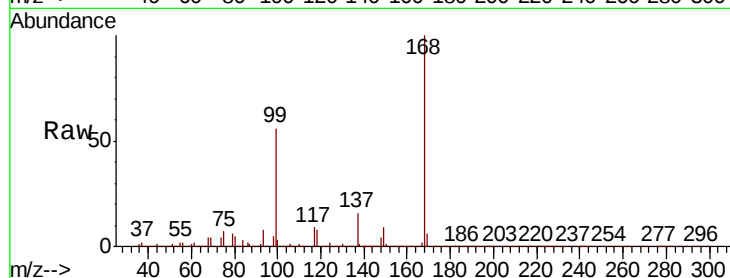
Tot Ion: 75 Resp: 83396

Ion Ratio Lower Upper

75 100

110 11.1 17.1 51.3#

77 0.0 24.6 36.8#



#38

Carbon Tetrachloride

Concen: 6.204 ug/l

RT: 5.64 min Scan# 779

Delta R.T. -0.12 min

Lab File: VX015505.D

Acq: 06 Apr 2020 12:25

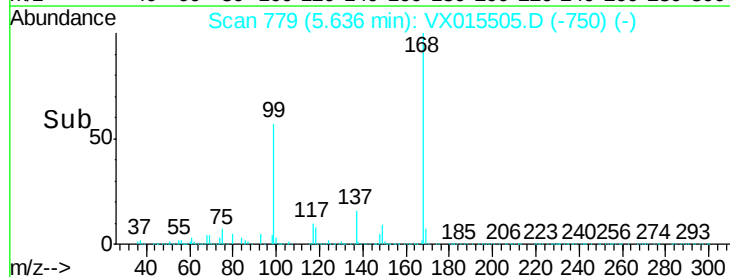
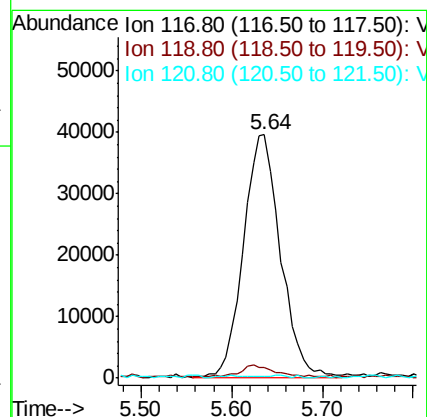
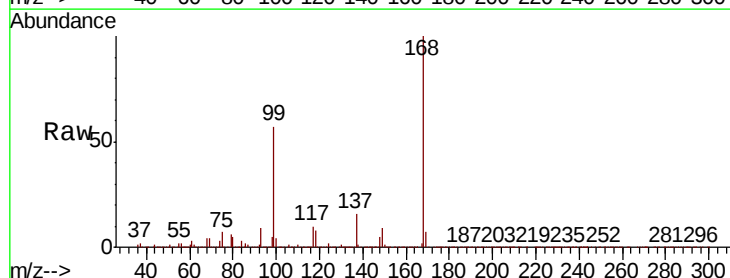
Tgt Ion:117 Resp: 111977

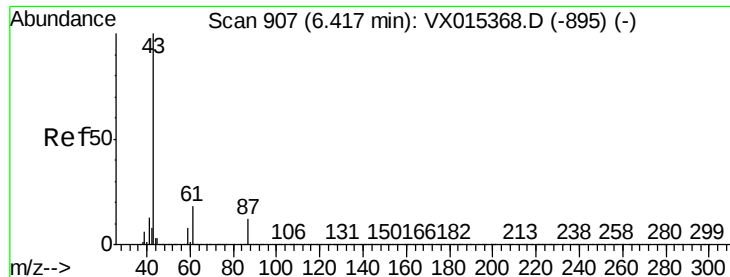
Ion Ratio Lower Upper

117 100

119 3.6 78.0 117.0#

121 0.3 23.8 35.8#





#43

Isopropyl Acetate

Concen: 9.875 ug/l

RT: 6.42 min Scan# 907

Delta R.T. -0.00 min

Lab File: VX015505.D

Acq: 06 Apr 2020 12:25

Instrument :

MSVOA_X

ClientSampleId :

PB127956TB

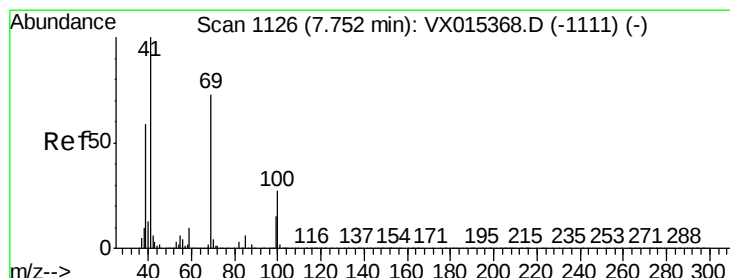
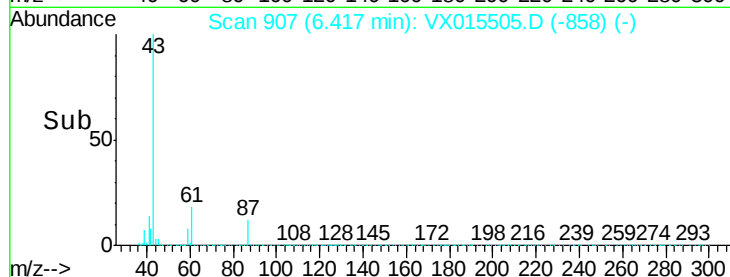
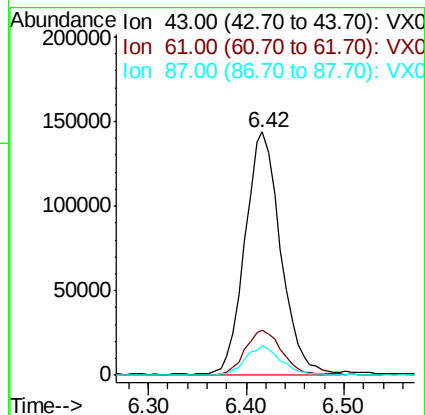
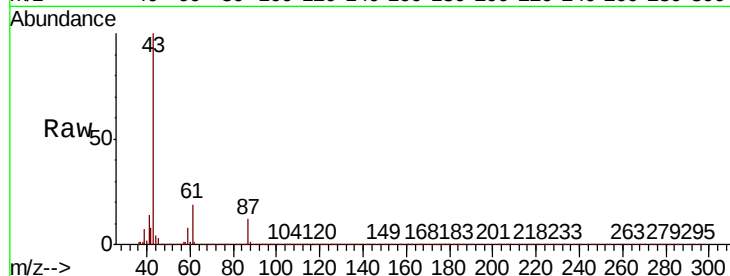
Tot Ion: 43 Resp: 361685

Ion Ratio Lower Upper

43 100

61 18.9 14.8 22.2

87 12.1 9.4 14.0



#48

Methyl methacrylate

Concen: 1.009 ug/l

RT: 7.65 min Scan# 1110

Delta R.T. -0.10 min

Lab File: VX015505.D

Acq: 06 Apr 2020 12:25

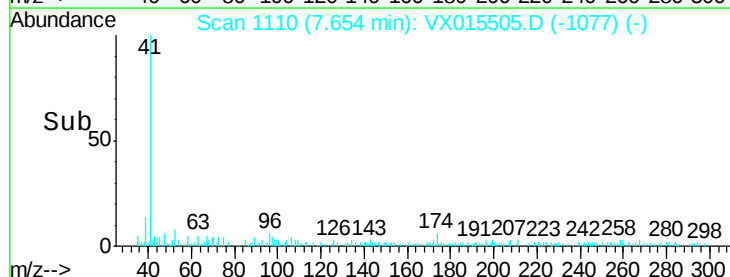
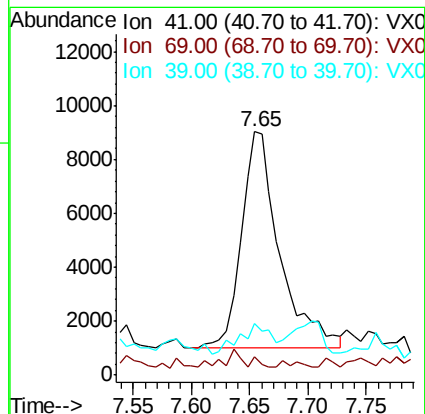
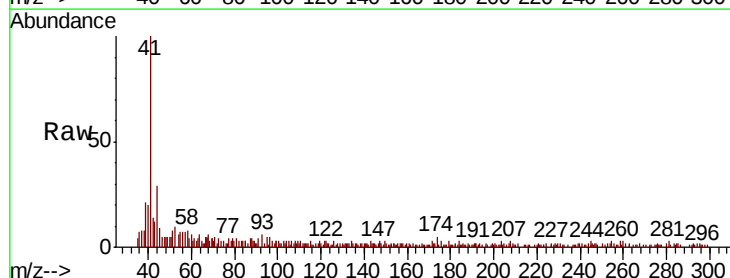
Tgt Ion: 41 Resp: 18452

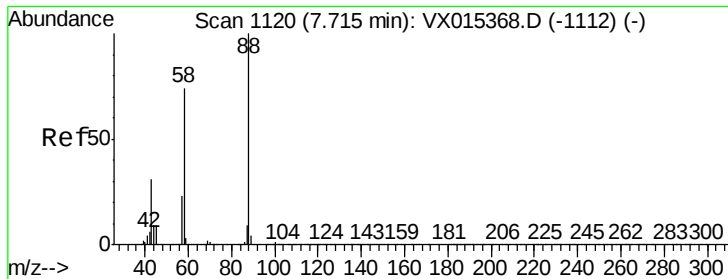
Ion Ratio Lower Upper

41 100

69 2.8 56.7 85.1#

39 0.0 46.5 69.7#

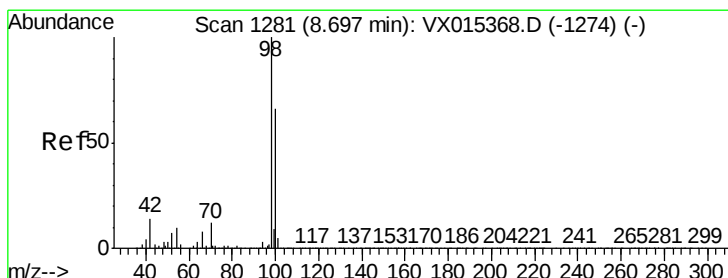
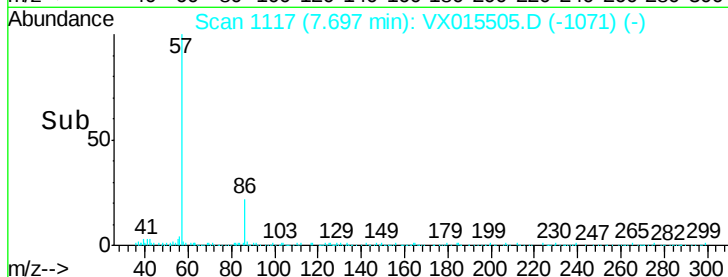
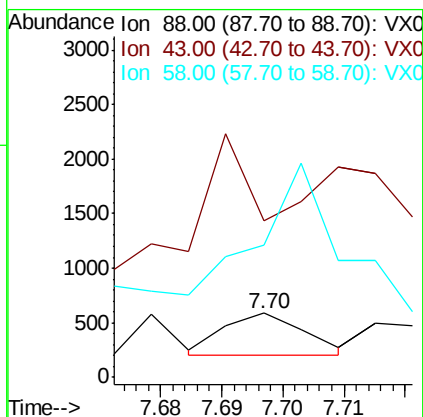
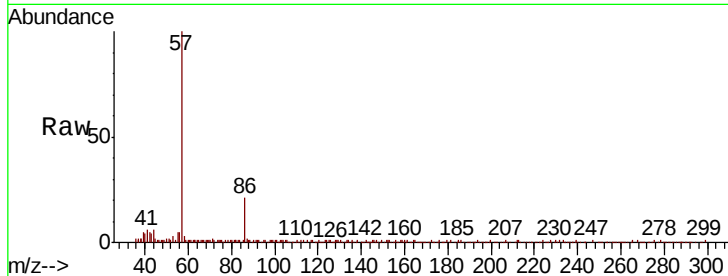




#49
1,4-Dioxane
Concen: 1.028 ug/l
RT: 7.70 min Scan# 1117
Delta R.T. -0.02 min
Lab File: VX015505.D
Acq: 06 Apr 2020 12:25

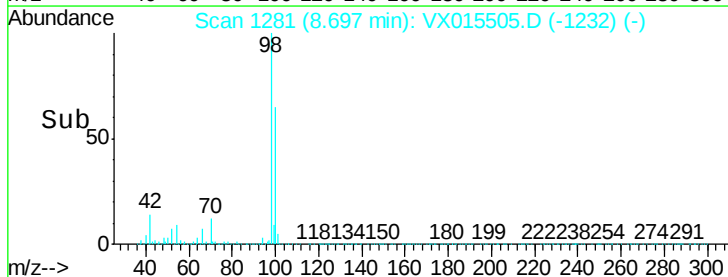
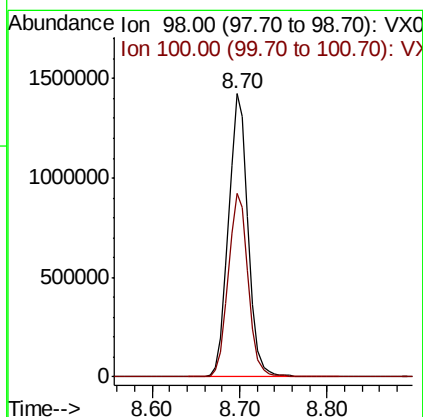
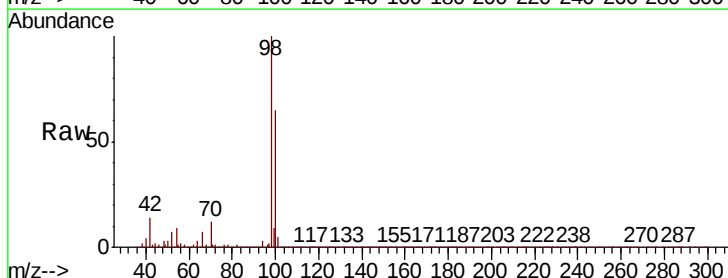
Instrument :
MSVOA_X
ClientSampleId :
PB127956TB

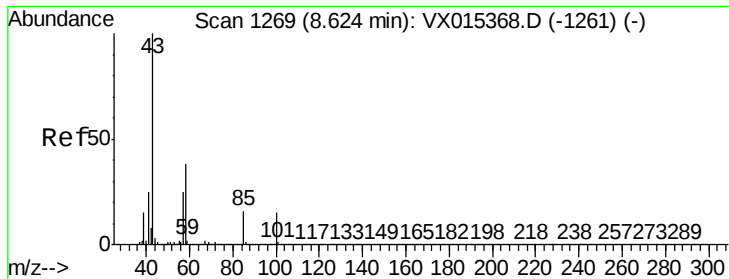
Tot Ion: 88 Resp: 351
Ion Ratio Lower Upper
88 100
43 0.0 30.1 45.1#
58 597.4 60.6 90.8#



#50
Toluene-d8
Concen: 51.942 ug/l
RT: 8.70 min Scan# 1281
Delta R.T. -0.00 min
Lab File: VX015505.D
Acq: 06 Apr 2020 12:25

Tgt Ion: 98 Resp: 2210821
Ion Ratio Lower Upper
98 100
100 65.8 53.5 80.3





#51

4-Methyl-2-Pentanone

Concen: 17.068 ug/l

RT: 8.59 min Scan# 1264

Delta R.T. -0.03 min

Lab File: VX015505.D

Acq: 06 Apr 2020 12:25

Instrument :

MSVOA_X

ClientSampleId :

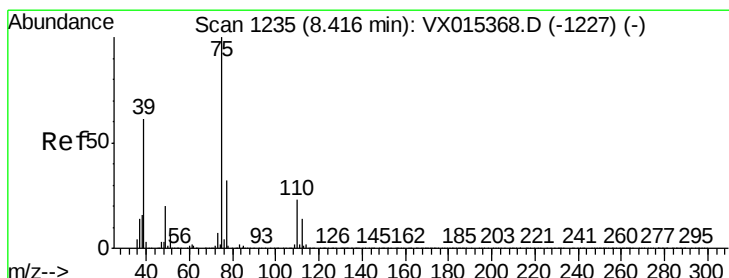
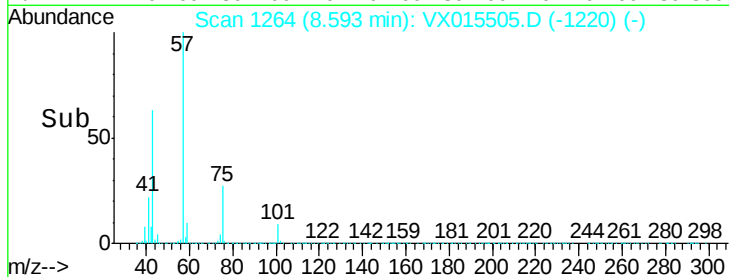
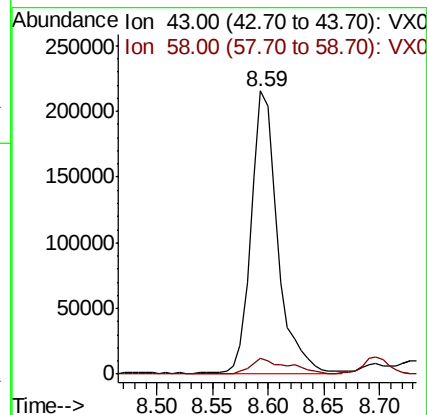
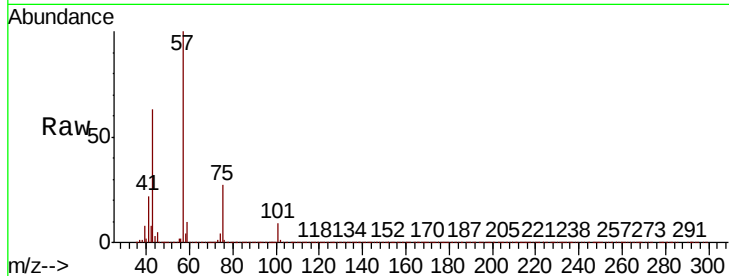
PB127956TB

Tot Ion: 43 Resp: 354296

Ion Ratio Lower Upper

43 100

58 8.2 29.7 44.5#



#54

cis-1,3-Dichloropropene

Concen: 6.342 ug/l

RT: 8.59 min Scan# 1264

Delta R.T. 0.18 min

Lab File: VX015505.D

Acq: 06 Apr 2020 12:25

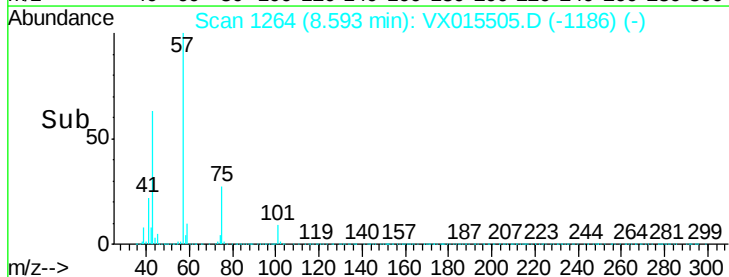
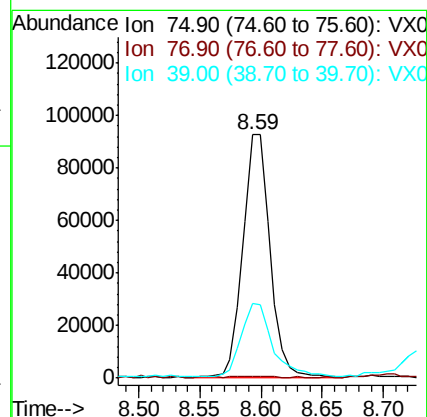
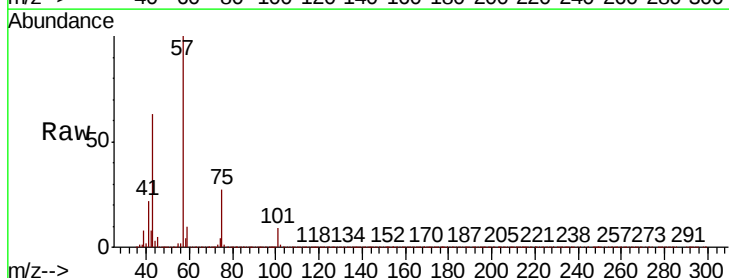
Tgt Ion: 75 Resp: 141419

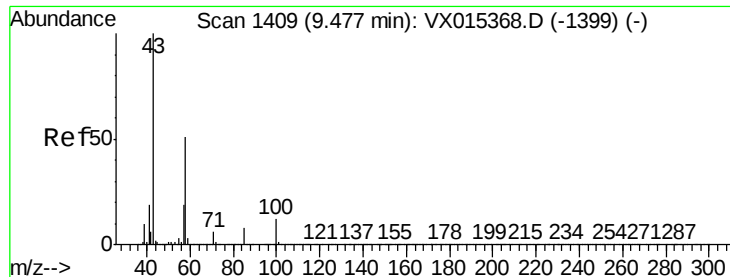
Ion Ratio Lower Upper

75 100

77 0.5 25.8 38.6#

39 30.0 49.0 73.4#

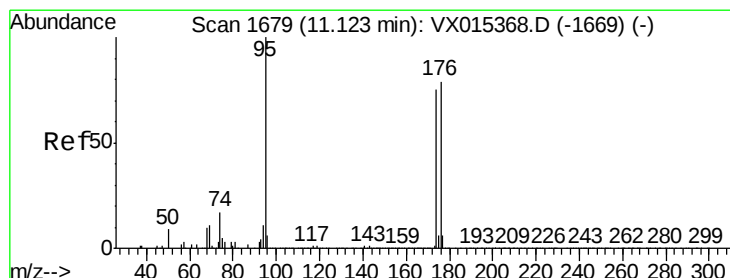
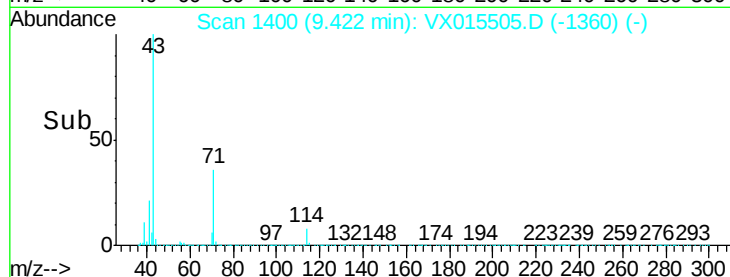
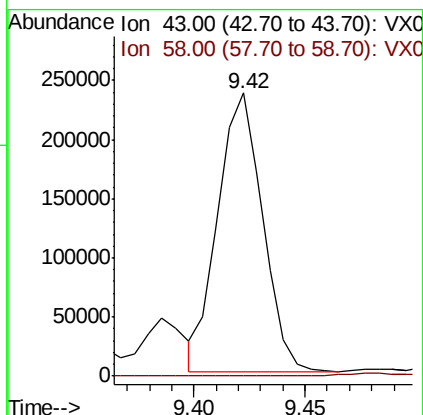
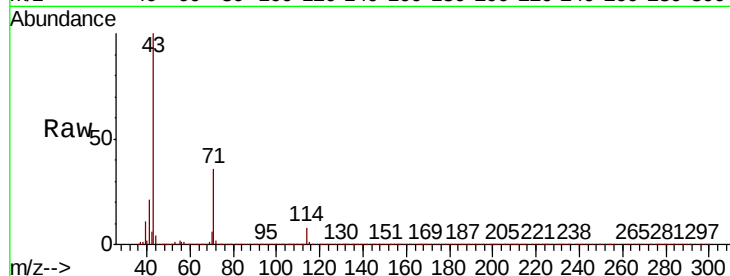




#59
2-Hexanone
Concen: 20.996 ug/l
RT: 9.42 min Scan# 1400
Delta R.T. -0.05 min
Lab File: VX015505.D
Acq: 06 Apr 2020 12:25

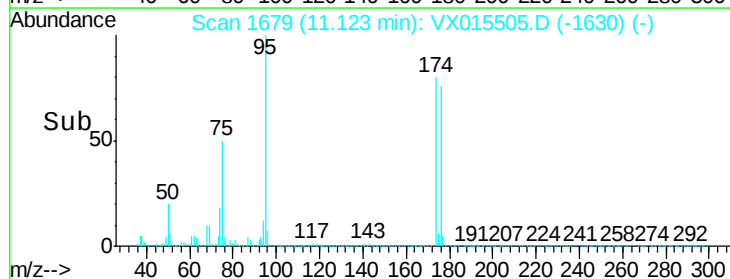
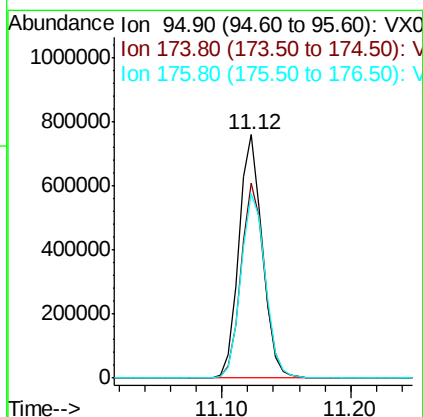
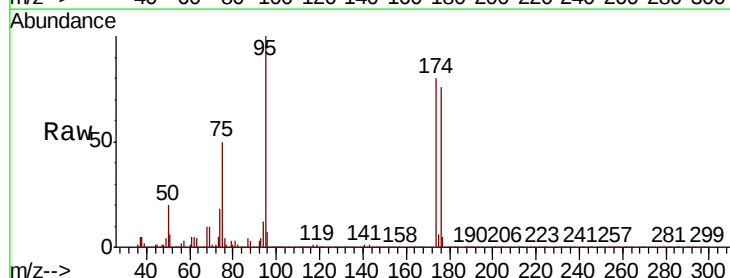
Instrument :
MSVOA_X
ClientSampled :
PB127956TB

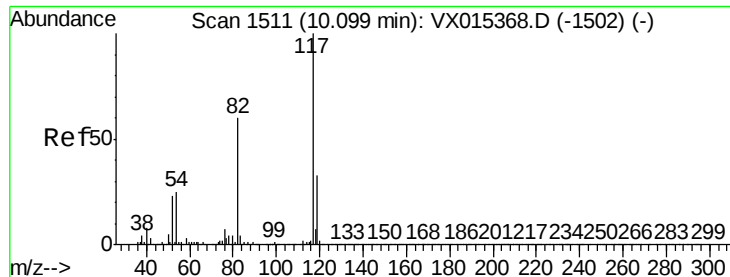
Tot Ion: 43 Resp: 329031
Ion Ratio Lower Upper
43 100
58 0.0 25.6 76.6#



#62
4-Bromofluorobenzene
Concen: 55.532 ug/l
RT: 11.12 min Scan# 1679
Delta R.T. -0.00 min
Lab File: VX015505.D
Acq: 06 Apr 2020 12:25

Tgt Ion: 95 Resp: 960595
Ion Ratio Lower Upper
95 100
174 79.7 0.0 158.6
176 78.5 0.0 159.0

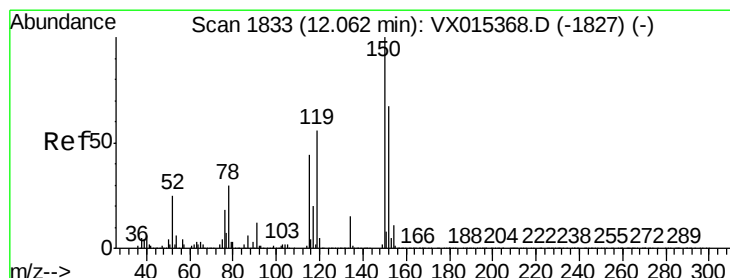
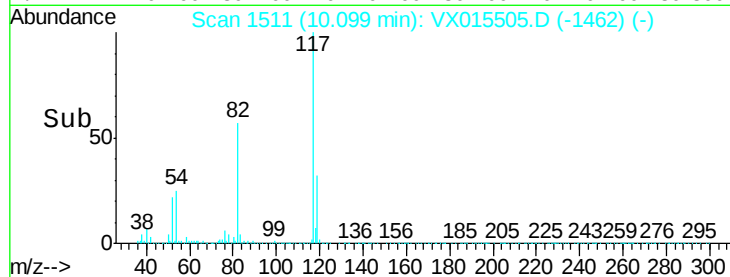
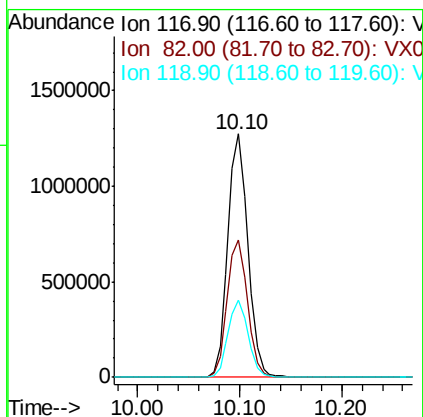
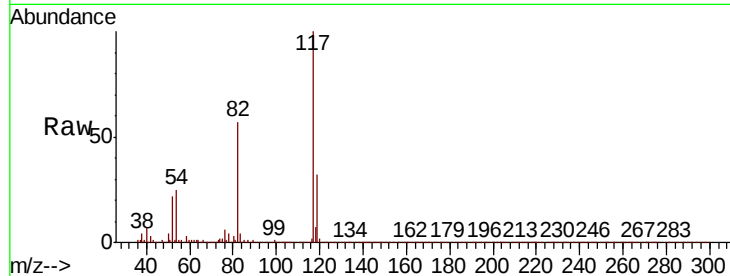




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1511
Delta R.T. -0.00 min
Lab File: VX015505.D
Acq: 06 Apr 2020 12:25

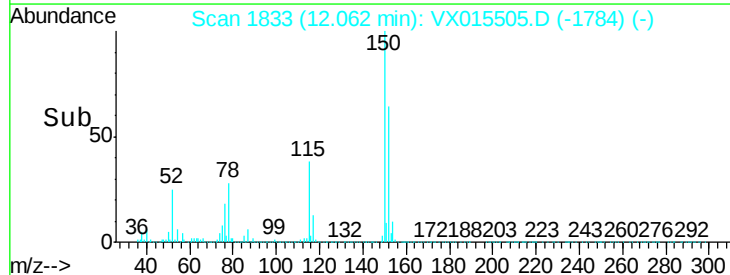
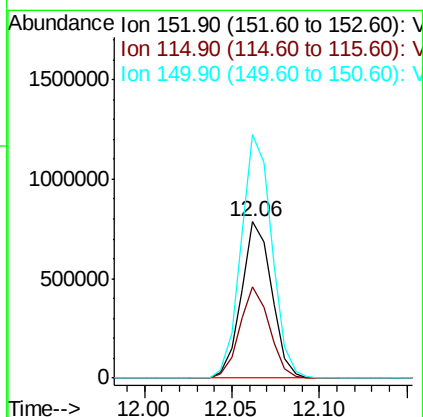
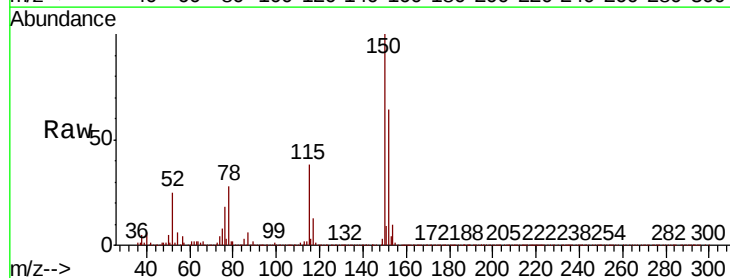
Instrument :
MSVOA_X
ClientSampleId :
PB127956TB

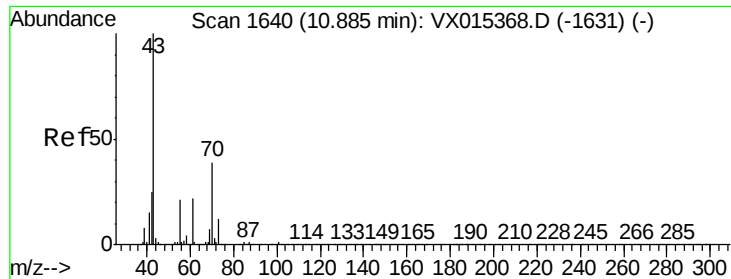
Tot Ion:117 Resp: 1730764
Ion Ratio Lower Upper
117 100
82 56.5 47.8 71.8
119 31.6 26.8 40.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1833
Delta R.T. -0.00 min
Lab File: VX015505.D
Acq: 06 Apr 2020 12:25

Tgt Ion:152 Resp: 948700
Ion Ratio Lower Upper
152 100
115 57.4 39.0 116.9
150 157.8 0.0 340.8





#74

N-amvl acetate

Concen: 0.488 ug/l

RT: 10.81 min Scan# 1628

Delta R.T. -0.07 min

Lab File: VX015505.D

Acq: 06 Apr 2020 12:25

Instrument :

MSVOA_X

ClientSampleId :

PB127956TB

Tot Ion: 43 Resp: 16856

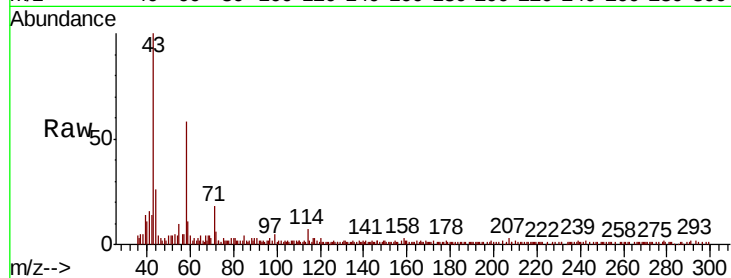
Ion Ratio Lower Upper

43 100

70 0.0 30.2 45.4#

55 12.1 16.8 25.2#

61 0.0 18.2 27.2#

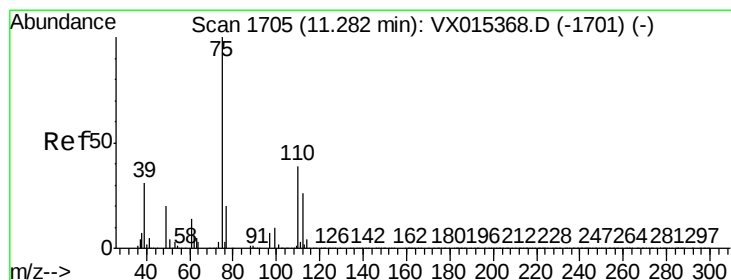
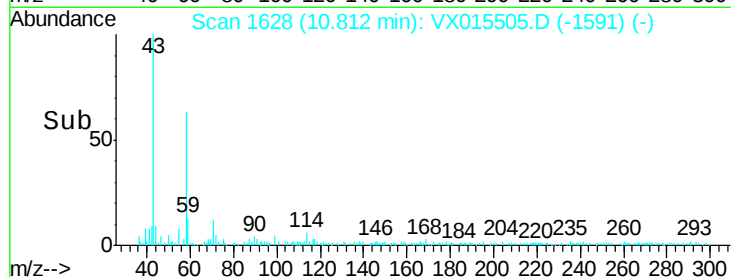
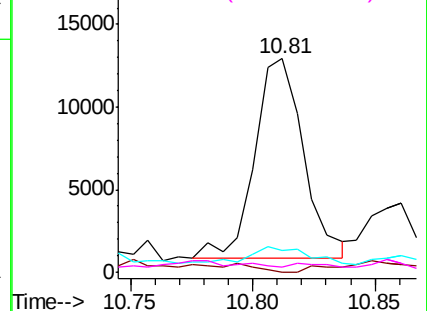


Abundance Ion 43.00 (42.70 to 43.70): VX0

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: 25.280 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. -0.16 min

Lab File: VX015505.D

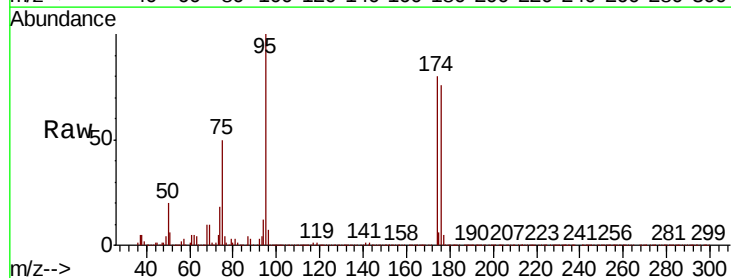
Acq: 06 Apr 2020 12:25

Tgt Ion: 75 Resp: 493200

Ion Ratio Lower Upper

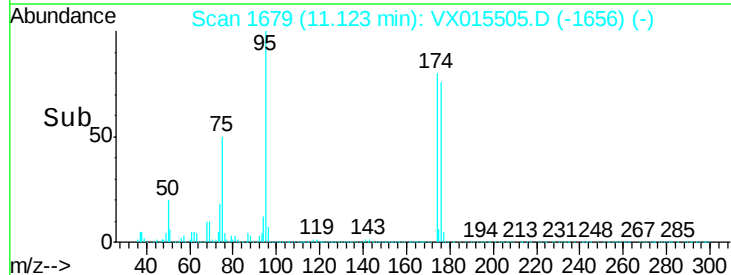
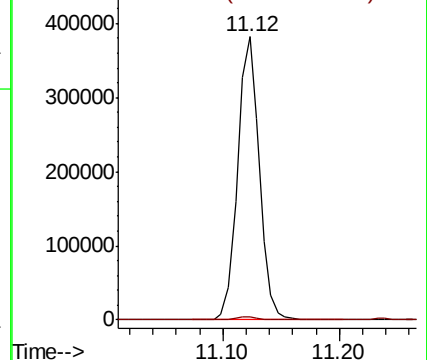
75 100

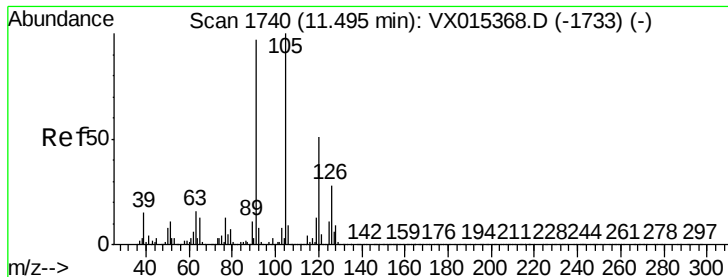
77 1.1 21.2 63.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0



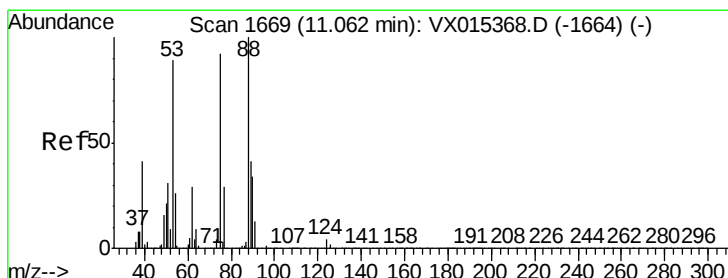
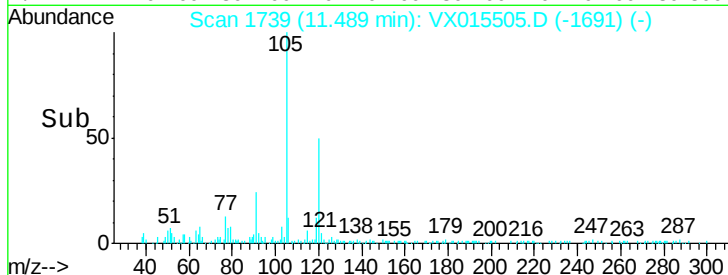
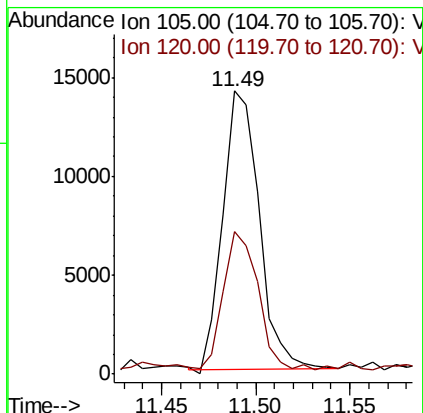
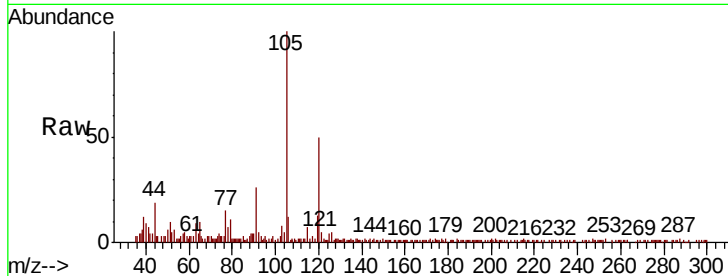


#80

1,3,5-Trimethylbenzene
Concen: 0.357 ug/l
RT: 11.49 min Scan# 1739
Delta R.T. -0.01 min
Lab File: VX015505.D
Acq: 06 Apr 2020 12:25

Instrument :
MSVOA_X
ClientSampleId :
PB127956TB

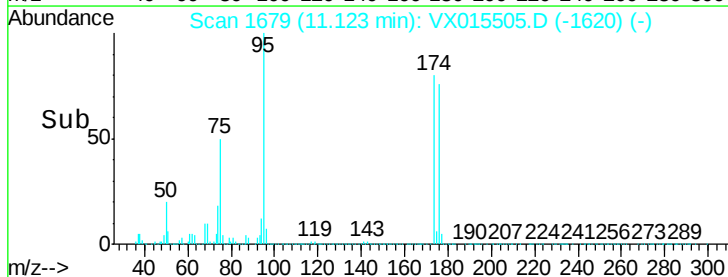
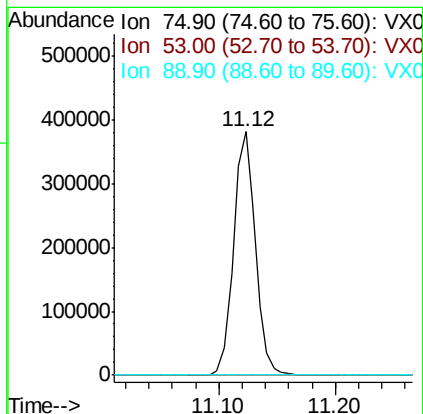
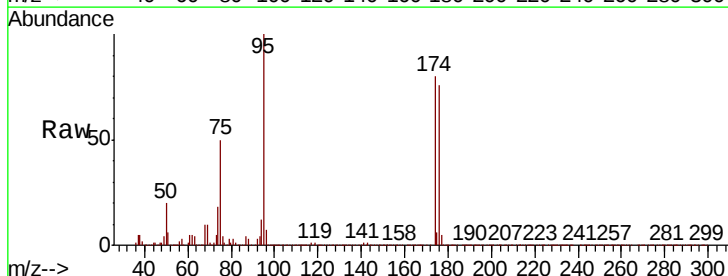
Tot Ion:105 Resp: 18937
Ion Ratio Lower Upper
105 100
120 47.2 24.8 74.4

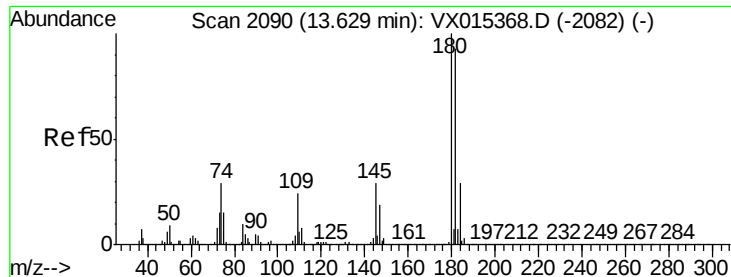


#81

trans-1,4-Dichloro-2-butene
Concen: 60.659 ug/l
RT: 11.12 min Scan# 1679
Delta R.T. 0.06 min
Lab File: VX015505.D
Acq: 06 Apr 2020 12:25

Tgt Ion: 75 Resp: 493200
Ion Ratio Lower Upper
75 100
53 0.1 80.1 120.1#
89 0.1 36.1 54.1#

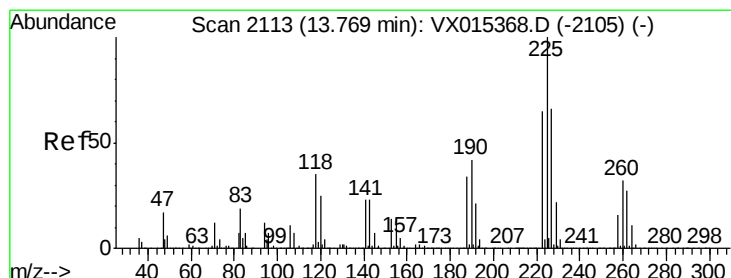
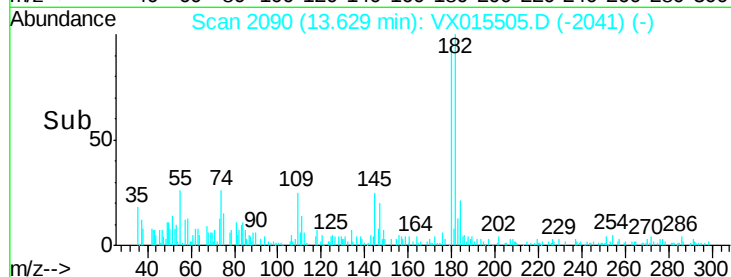
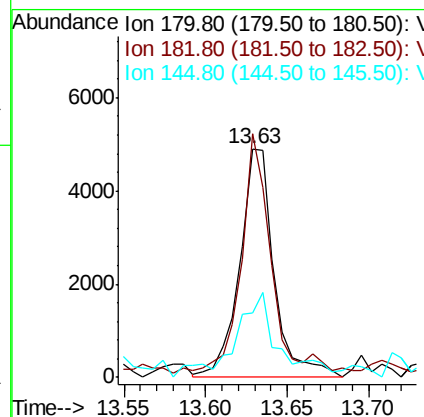
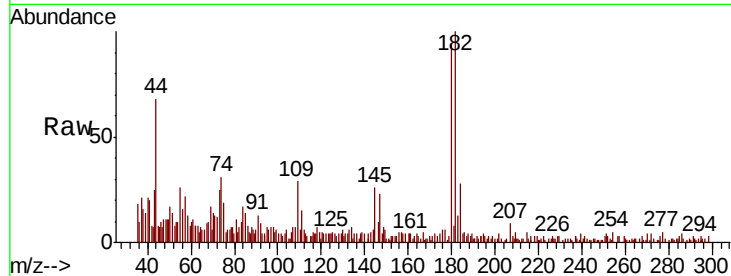




#93
 1,2,4-Trichlorobenzene
 Concen: 0.315 ug/l
 RT: 13.63 min Scan# 2090
 Delta R.T. -0.00 min
 Lab File: VX015505.D
 Acq: 06 Apr 2020 12:25

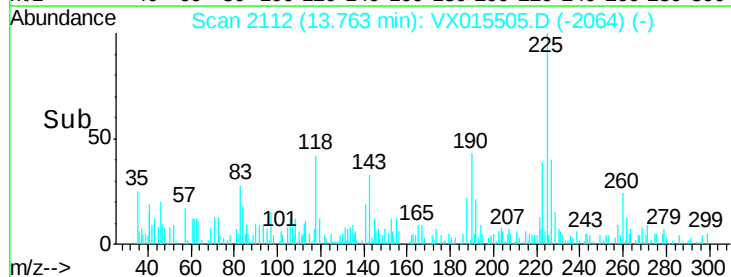
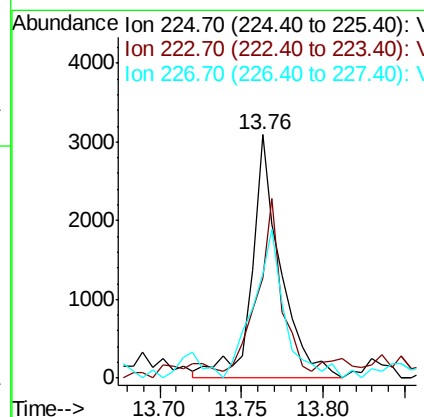
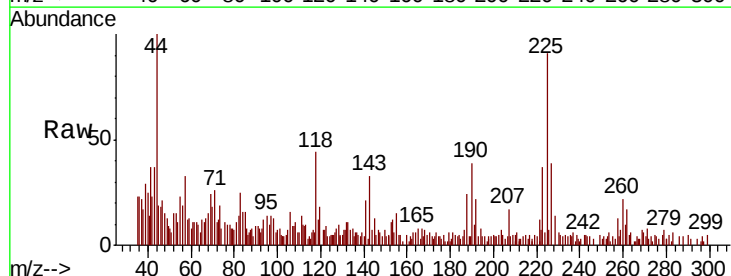
Instrument :
 MSVOA_X
 ClientSampleId :
 PB127956TB

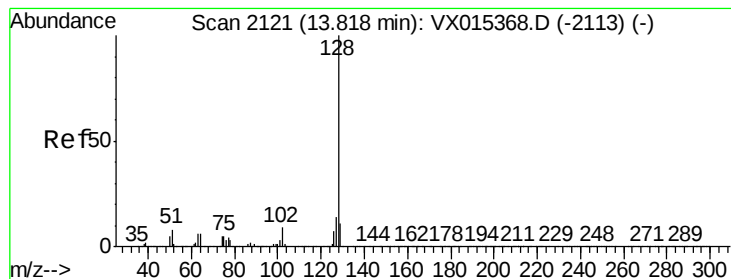
Tot Ion	Ratio	Lower	Upper
180	100		
182	86.6	46.9	140.7
145	46.5	14.9	44.5#



#94
 Hexachlorobutadiene
 Concen: 0.346 ug/l
 RT: 13.76 min Scan# 2112
 Delta R.T. -0.01 min
 Lab File: VX015505.D
 Acq: 06 Apr 2020 12:25

Tgt Ion	Ratio	Lower	Upper
225	100		
223	60.7	31.9	95.7
227	67.5	30.4	91.3





#95

Naphthalene

Concen: 0.203 ug/l

RT: 13.82 min Scan# 2121

Delta R.T. -0.00 min

Lab File: VX015505.D

Acq: 06 Apr 2020 12:25

Instrument :

MSVOA_X

ClientSampleId :

PB127956TB

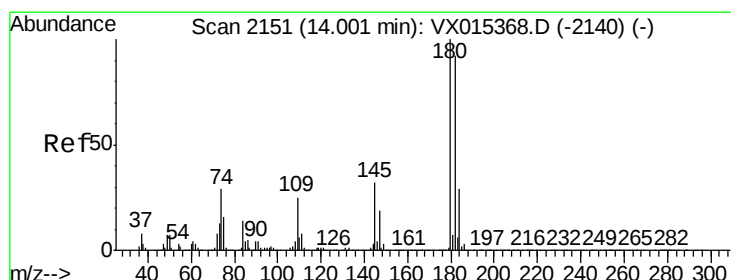
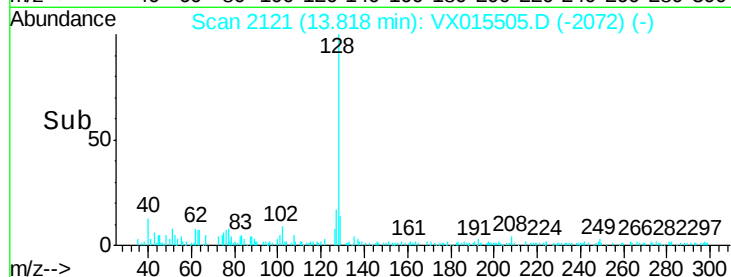
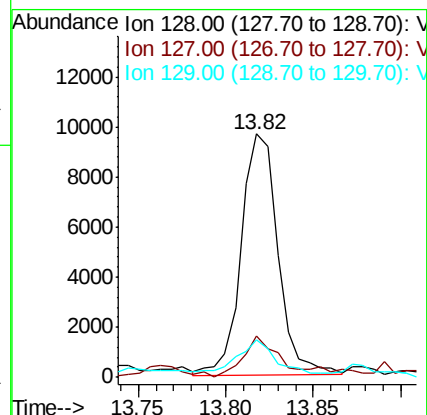
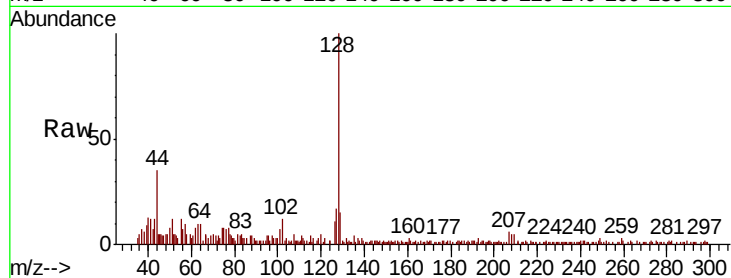
Tot Ion:128 Resp: 14197

Ion Ratio Lower Upper

128 100

127 16.7 10.6 15.8#

129 15.7 8.8 13.2#



#96

1,2,3-Trichlorobenzene

Concen: 0.264 ug/l

RT: 14.01 min Scan# 2152

Delta R.T. 0.01 min

Lab File: VX015505.D

Acq: 06 Apr 2020 12:25

Tgt Ion:180 Resp: 5840

Ion Ratio Lower Upper

180 100

182 88.2 46.7 140.0

145 24.1 15.8 47.3

