

Data File : VX015204.D
Acq On : 11 Mar 2020 16:32
Operator : JC/SP
Sample : PB127431ZHE#13
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
PB127431ZHE#13

Quant Time: Mar 12 05:50:36 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X030420W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 04 14:19:10 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	317073	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	542705	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	542580	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	268215	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.06	65	205837	54.72	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.44%	
35) Dibromofluoromethane	5.49	113	172320	50.33	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.66%	
50) Toluene-d8	8.71	98	677189	52.00	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.00%	
62) 4-Bromofluorobenzene	11.13	95	248809	53.56	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.12%	

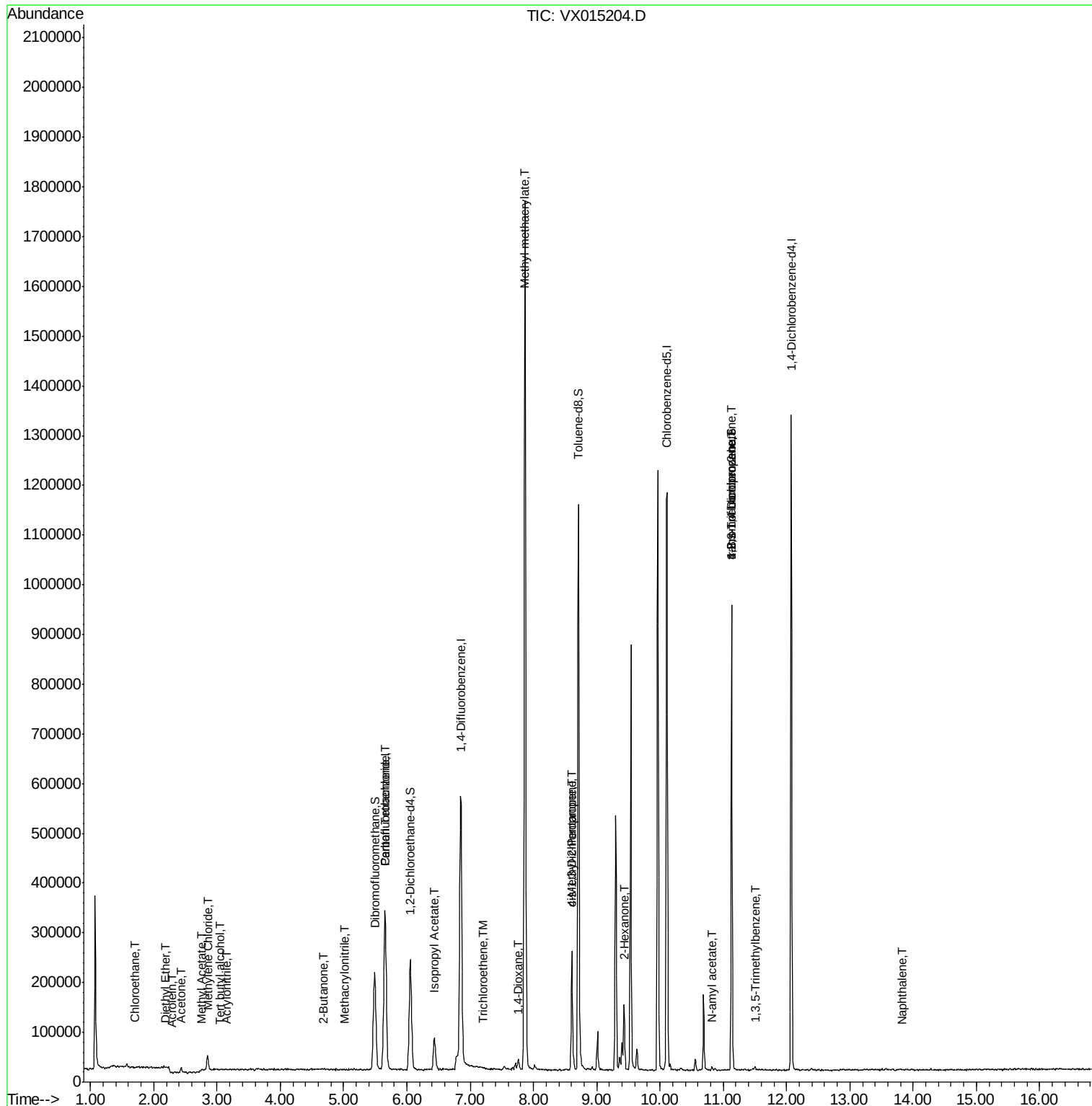
Target Compounds						Qvalue
6) Chloroethane	1.70	64	590	0.247	ug/l #	42
8) Diethyl Ether	2.17	74	736	0.342	ug/l	65
11) Tert butyl alcohol	3.03	59	737	1.129	ug/l #	53
13) Acrolein	2.29	56	292	0.476	ug/l #	15
15) Acrylonitrile	3.14	53	783	0.482	ug/l #	17
16) Acetone	2.44	43	11994	7.873	ug/l	94
18) Methyl Acetate	2.76	43	3373	0.906	ug/l	97
20) Methylene Chloride	2.85	84	14132	3.964	ug/l	93
25) 2-Butanone	4.69	43	2119	0.950	ug/l #	77
38) Carbon Tetrachloride	5.65	117	29956	6.326	ug/l #	16
41) Methacrylonitrile	5.01	41	765	0.274	ug/l #	38
43) Isopropyl Acetate	6.43	43	87210	10.652	ug/l	100
44) Trichloroethene	7.21	130	939	0.227	ug/l	72
48) Methyl methacrylate	7.87	41	150538	36.127	ug/l #	43
49) 1,4-Dioxane	7.76	88	180	1.998	ug/l #	1
51) 4-Methyl-2-Pentanone	8.61	43	85271	17.616	ug/l #	51
54) cis-1,3-Dichloropropene	8.61	75	39216	6.565	ug/l #	63
59) 2-Hexanone	9.43	43	104428	29.106	ug/l #	24
74) N-amyl acetate	10.82	43	3275	0.454	ug/l #	56
76) 1,2,3-Trichloropropane	11.13	75	122407	22.879	ug/l #	33
80) 1,3,5-Trimethylbenzene	11.50	105	3736	0.262	ug/l	97
81) trans-1,4-Dichloro-2-buten	11.13	75	122215	64.830	ug/l #	11
95) Naphthalene	13.83	128	681	1.457	ug/l #	34

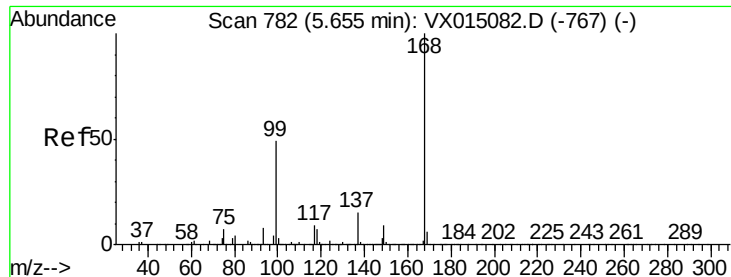
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.00 min

Lab File: VX015204.D

Acq: 11 Mar 2020 16:32

Instrument :

MSVOA_X

ClientSampleId :

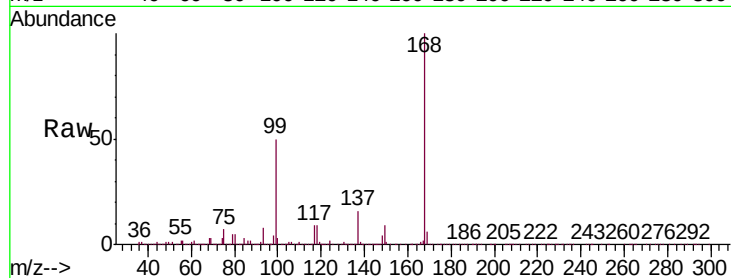
PB127431ZHE#13

Tgt Ion:168 Resp: 317073

Ion Ratio Lower Upper

168 100

99 49.9 39.4 59.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

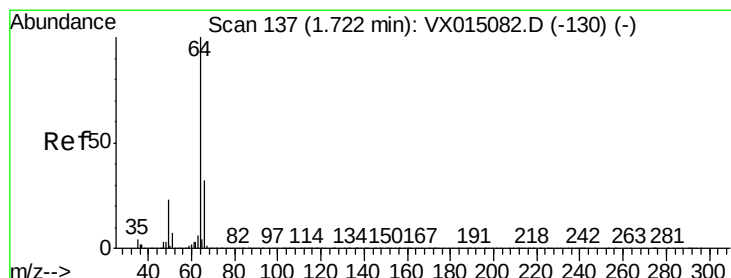
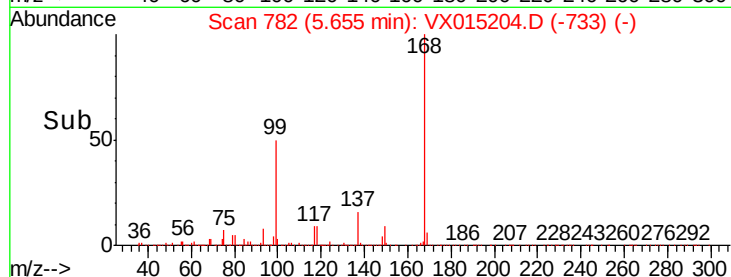
5.65

100000

50000

0

Time-->



#6

Chloroethane

Concen: 0.247 ug/l

RT: 1.70 min Scan# 134

Delta R.T. -0.02 min

Lab File: VX015204.D

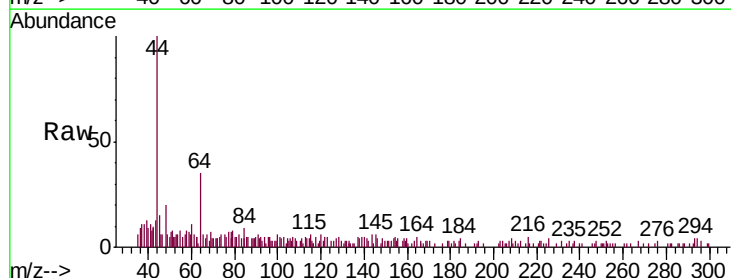
Acq: 11 Mar 2020 16:32

Tgt Ion: 64 Resp: 590

Ion Ratio Lower Upper

64 100

66 0.0 25.8 38.8#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.70

1200

1000

800

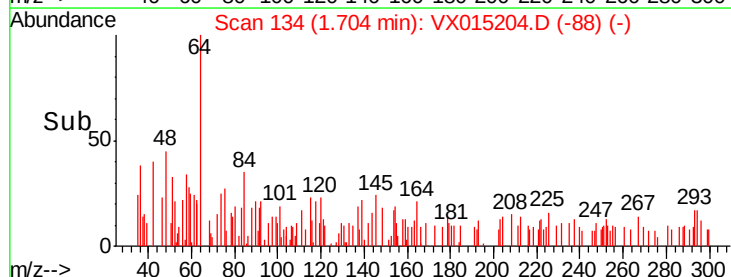
600

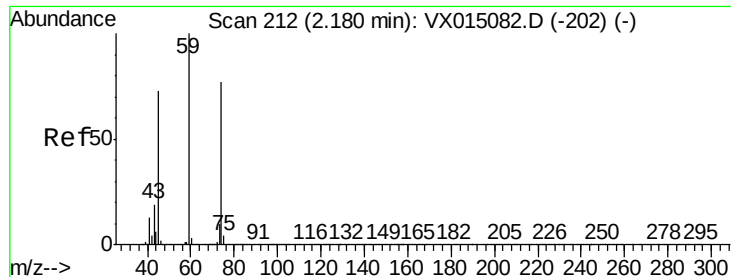
400

200

0

Time-->





#8

Diethyl Ether

Concen: 0.342 ug/l

RT: 2.17 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX015204.D

Acq: 11 Mar 2020 16:32

Instrument :

MSVOA_X

ClientSampleId :

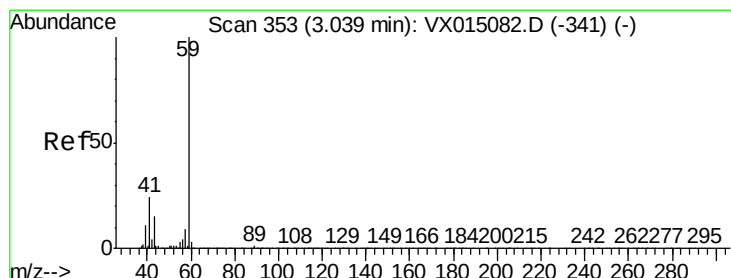
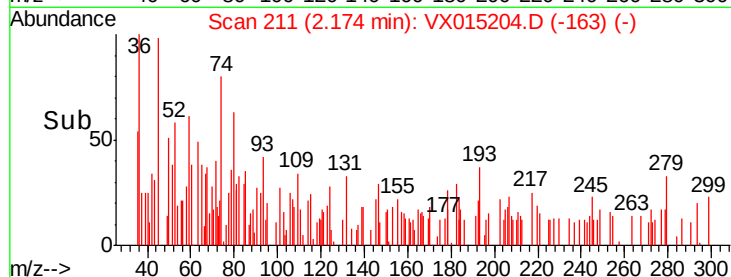
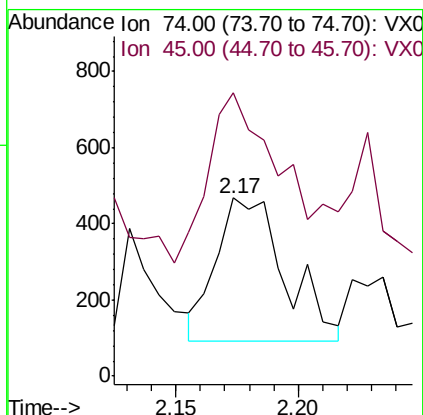
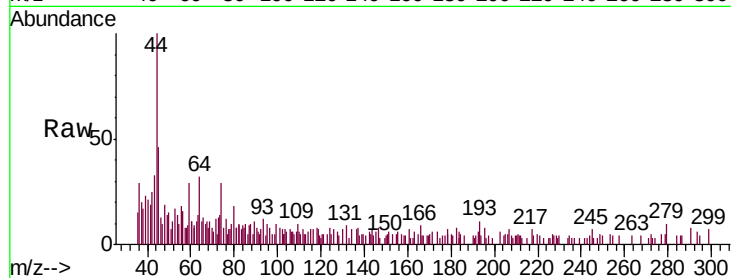
PB127431ZHE#13

Tgt Ion: 74 Resp: 736

Ion Ratio Lower Upper

74 100

45 132.6 49.2 147.6



#11

Tert butyl alcohol

Concen: 1.129 ug/l

RT: 3.03 min Scan# 352

Delta R.T. -0.01 min

Lab File: VX015204.D

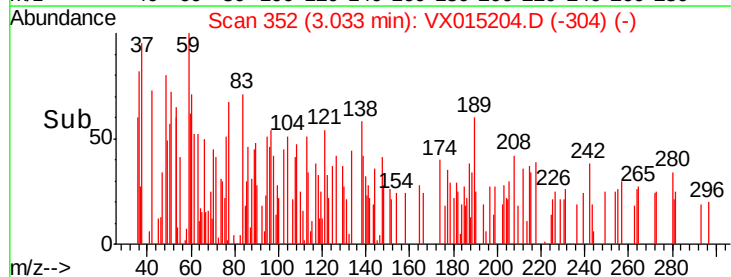
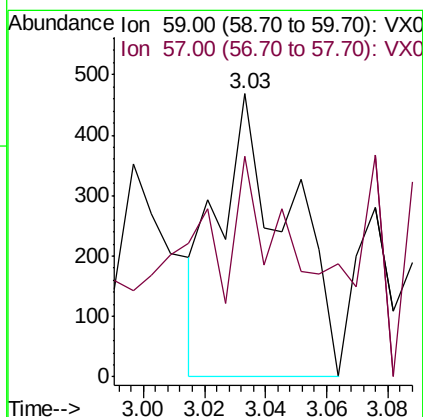
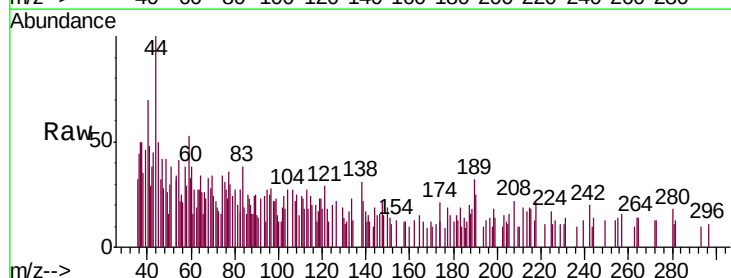
Acq: 11 Mar 2020 16:32

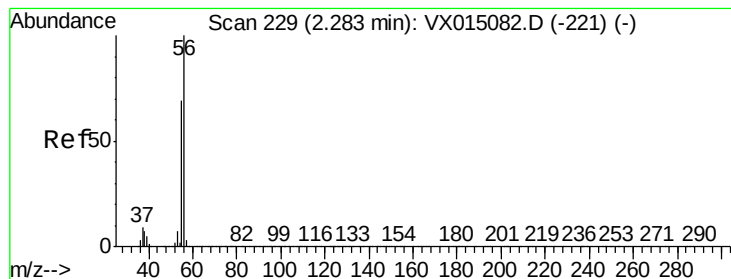
Tgt Ion: 59 Resp: 737

Ion Ratio Lower Upper

59 100

57 28.0 8.2 12.4#





#13

Acrolein

Concen: 0.476 ug/l

RT: 2.29 min Scan# 230

Delta R.T. 0.01 min

Lab File: VX015204.D

Acq: 11 Mar 2020 16:32

Instrument :

MSVOA_X

ClientSampleId :

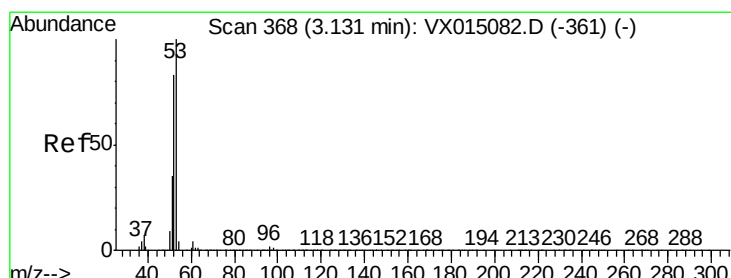
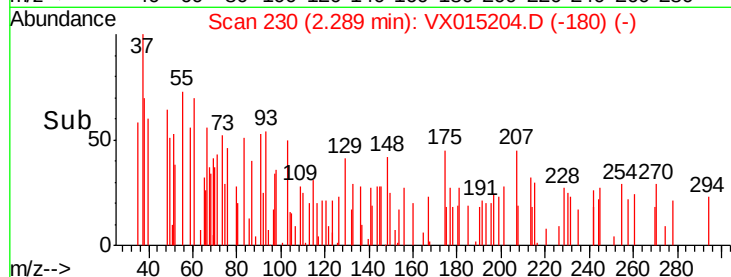
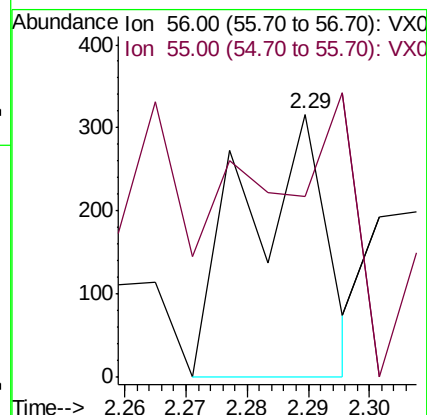
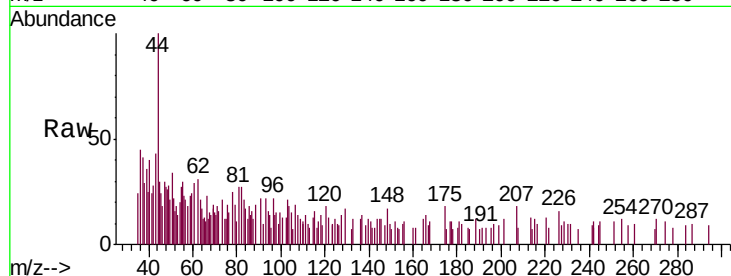
PB127431ZHE#13

Tgt Ion: 56 Resp: 292

Ion Ratio Lower Upper

56 100

55 0.0 55.4 83.0#



#15

Acrylonitrile

Concen: 0.482 ug/l

RT: 3.14 min Scan# 369

Delta R.T. 0.01 min

Lab File: VX015204.D

Acq: 11 Mar 2020 16:32

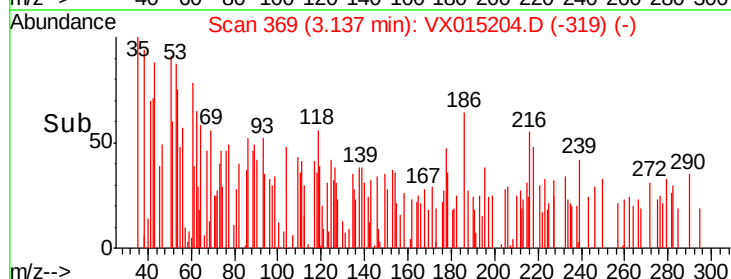
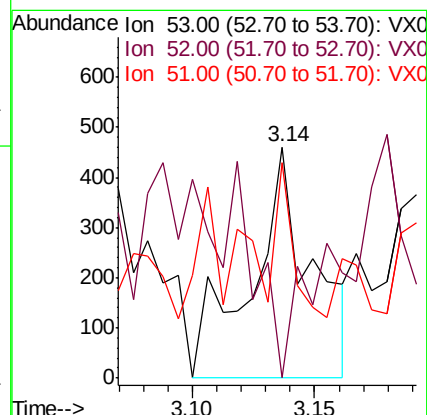
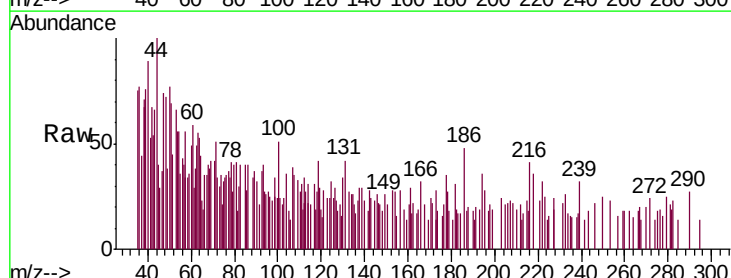
Tgt Ion: 53 Resp: 783

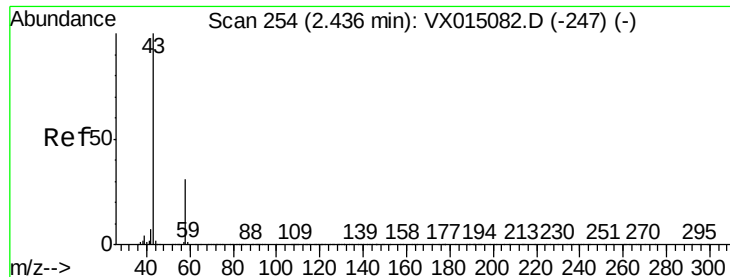
Ion Ratio Lower Upper

53 100

52 0.0 66.6 100.0#

51 0.0 29.0 43.6#





#16

Acetone

Concen: 7.873 ug/l

RT: 2.44 min Scan# 254

Delta R.T. 0.00 min

Lab File: VX015204.D

Acq: 11 Mar 2020 16:32

Instrument :

MSVOA_X

ClientSampleId :

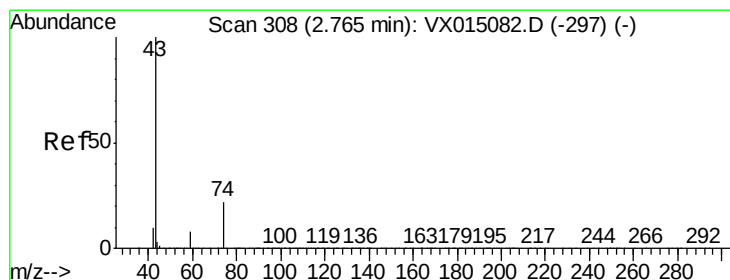
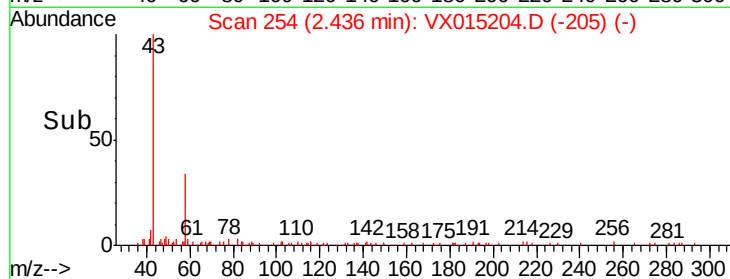
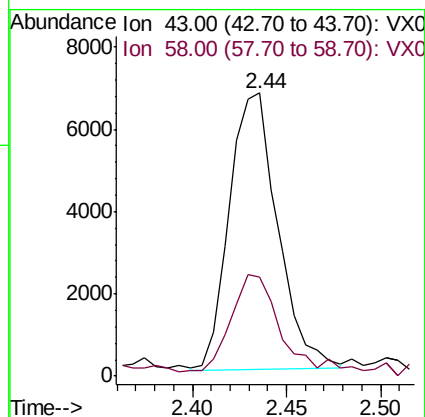
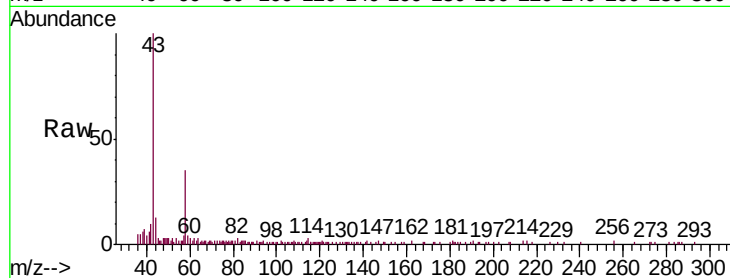
PB127431ZHE#13

Tgt Ion: 43 Resp: 11994

Ion Ratio Lower Upper

43 100

58 34.1 24.8 37.2



#18

Methyl Acetate

Concen: 0.906 ug/l

RT: 2.76 min Scan# 308

Delta R.T. 0.00 min

Lab File: VX015204.D

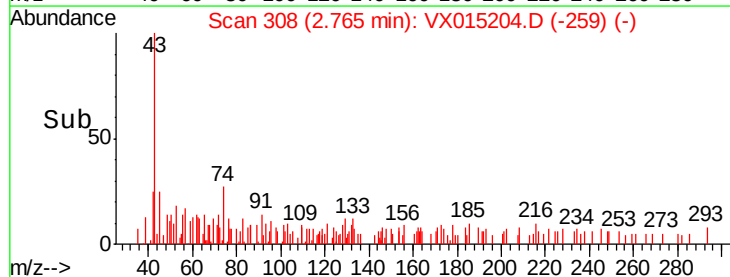
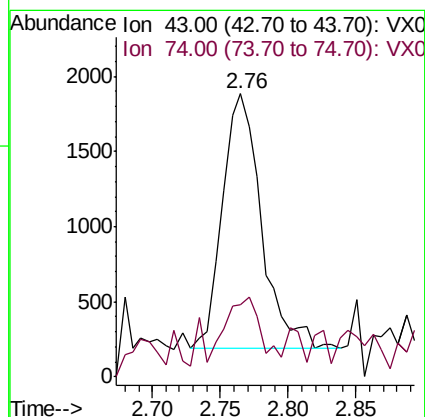
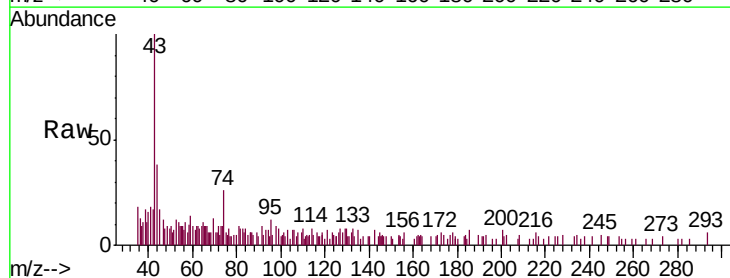
Acq: 11 Mar 2020 16:32

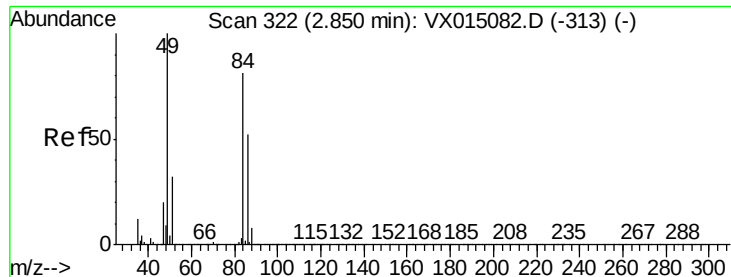
Tgt Ion: 43 Resp: 3373

Ion Ratio Lower Upper

43 100

74 22.2 18.8 28.2

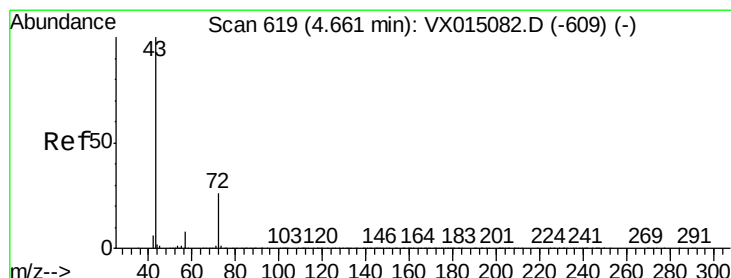
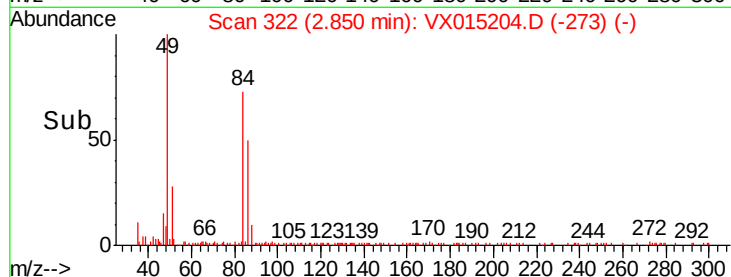
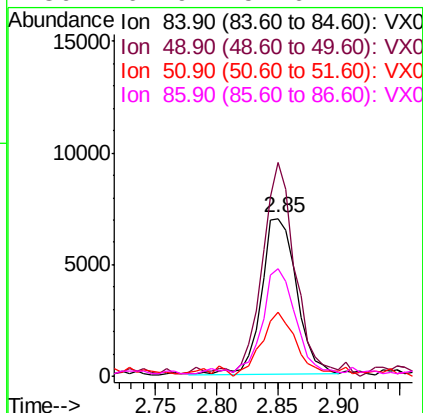
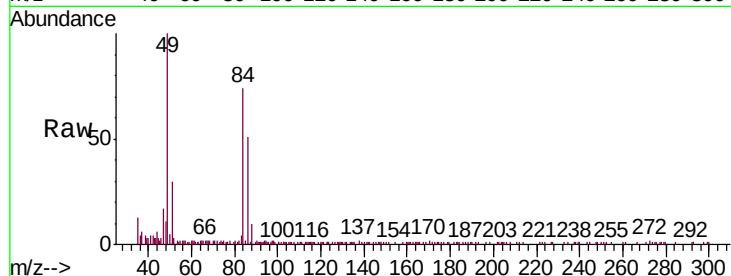




#20
Methylene Chloride
Concen: 3.964 ug/l
RT: 2.85 min Scan# 322
Delta R.T. 0.00 min
Lab File: VX015204.D
Acq: 11 Mar 2020 16:32

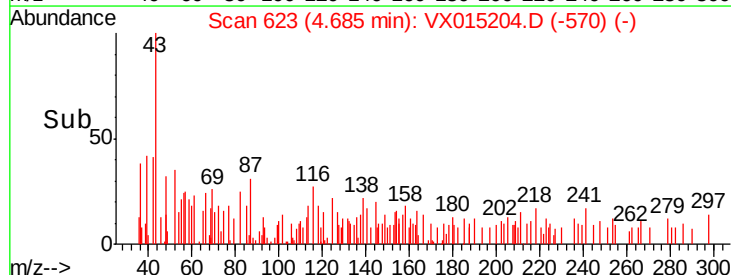
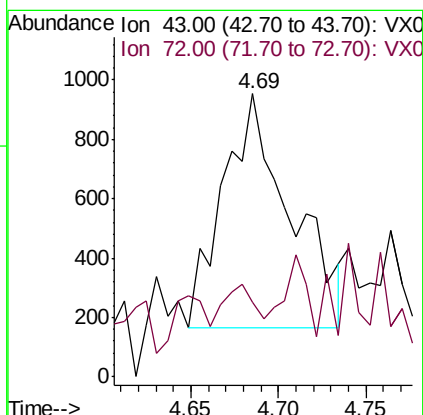
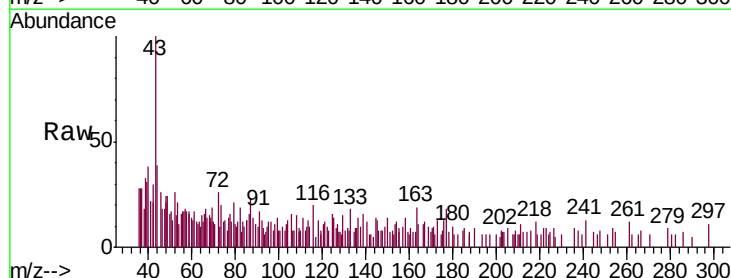
Instrument :
MSVOA_X
ClientSampleId :
PB127431ZHE#13

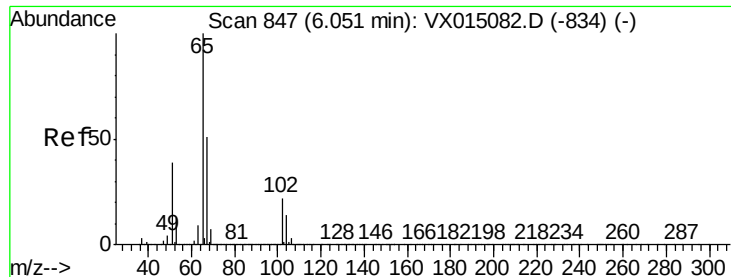
Tgt Ion:	84	Resp:	14132
Ion	Ratio	Lower	Upper
84	100		
49	134.6	99.4	149.2
51	37.9	31.5	47.3
86	67.9	51.6	77.4



#25
2-Butanone
Concen: 0.950 ug/l
RT: 4.69 min Scan# 623
Delta R.T. 0.02 min
Lab File: VX015204.D
Acq: 11 Mar 2020 16:32

Tgt Ion:	43	Resp:	2119
Ion	Ratio	Lower	Upper
43	100		
72	14.0	20.6	30.8#

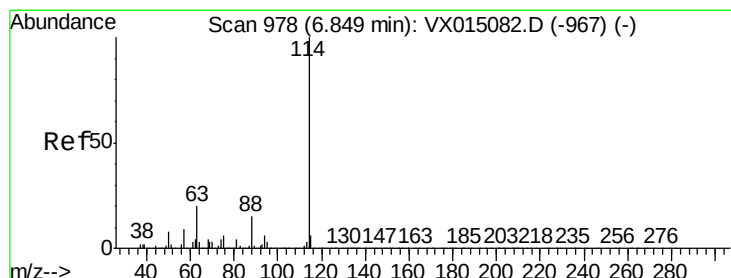
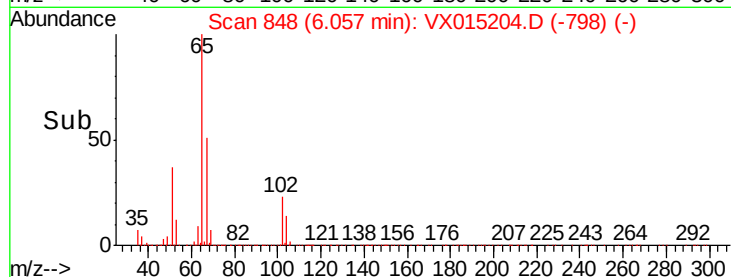
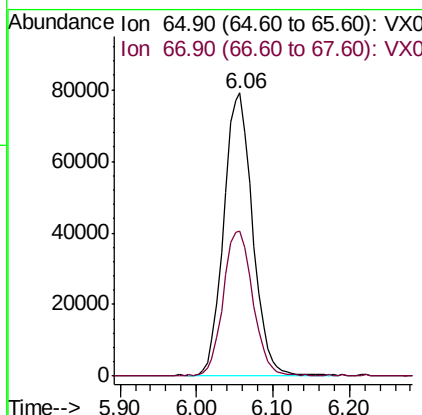
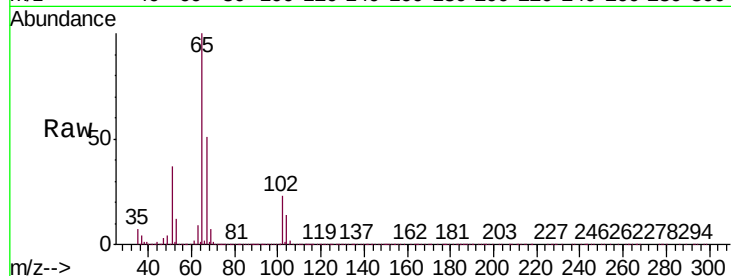




#33
 1,2-Dichloroethane-d4
 Concen: 54.720 ug/l
 RT: 6.06 min Scan# 848
 Delta R.T. 0.01 min
 Lab File: VX015204.D
 Acq: 11 Mar 2020 16:32

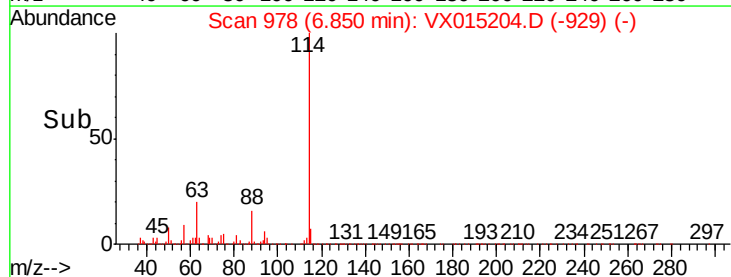
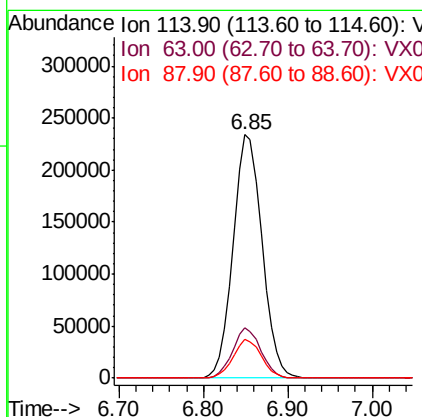
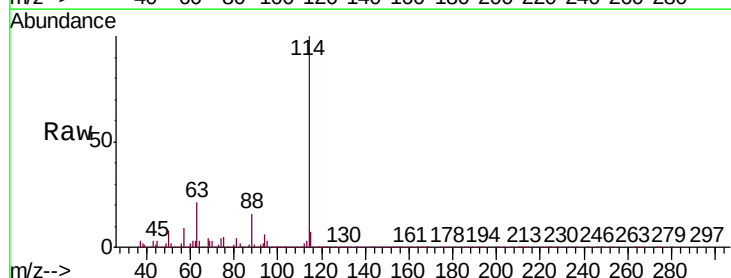
Instrument :
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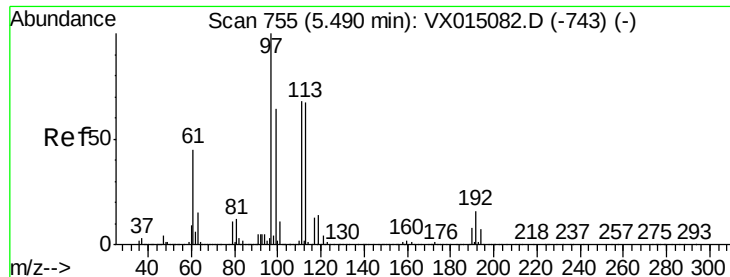
Tgt Ion: 65 Resp: 205837
 Ion Ratio Lower Upper
 65 100
 67 52.3 0.0 105.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. 0.00 min
 Lab File: VX015204.D
 Acq: 11 Mar 2020 16:32

Tgt Ion: 114 Resp: 542705
 Ion Ratio Lower Upper
 114 100
 63 20.5 0.0 40.0
 88 15.8 0.0 30.6

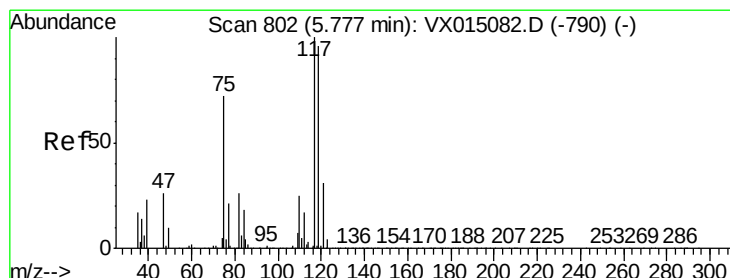
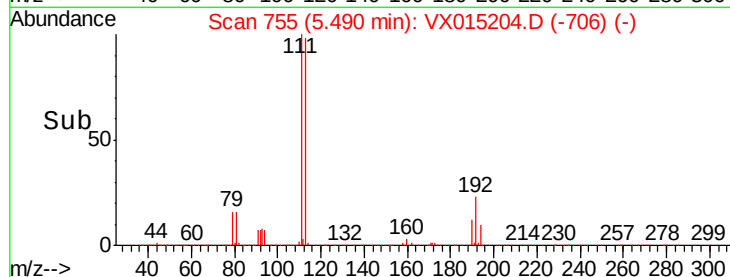
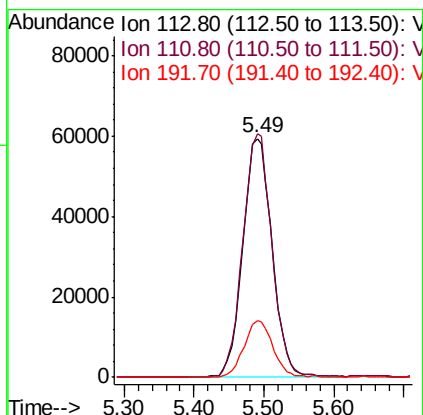
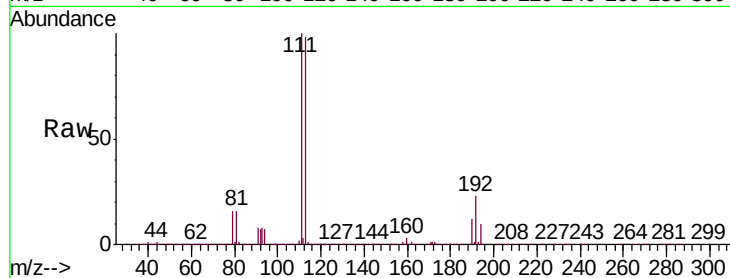




#35
Dibromofluoromethane
Concen: 50.331 ug/l
RT: 5.49 min Scan# 755
Delta R.T. 0.00 min
Lab File: VX015204.D
Acq: 11 Mar 2020 16:32

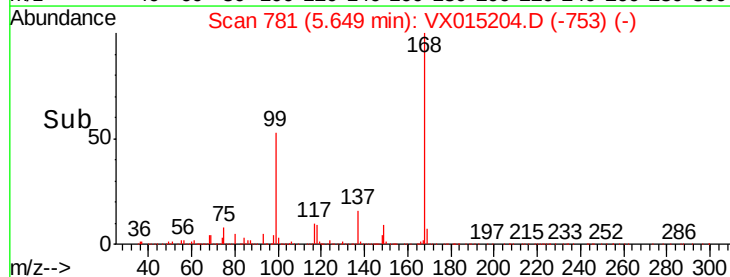
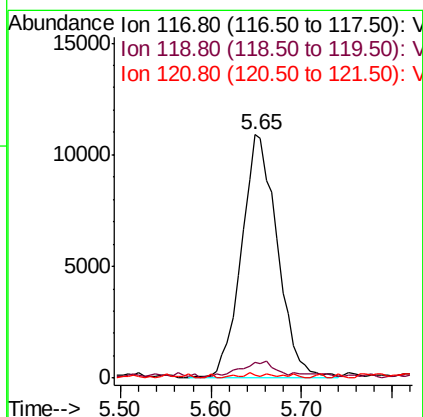
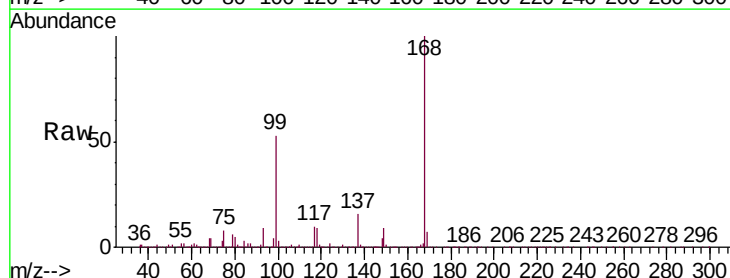
Instrument :
MSVOA_X
ClientSampleId :
PB127431ZHE#13

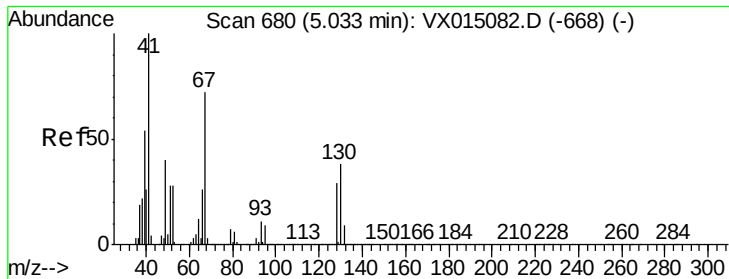
Tgt Ion	Ratio	Lower	Upper
113	100		
111	100.7	82.6	123.8
192	23.4	18.6	28.0



#38
Carbon Tetrachloride
Concen: 6.326 ug/l
RT: 5.65 min Scan# 781
Delta R.T. -0.13 min
Lab File: VX015204.D
Acq: 11 Mar 2020 16:32

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.8	76.9	115.3#
121	0.0	24.6	37.0#

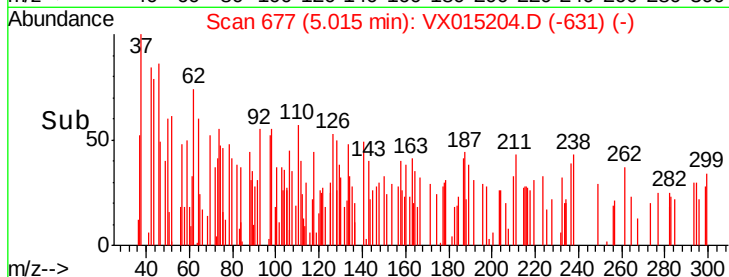
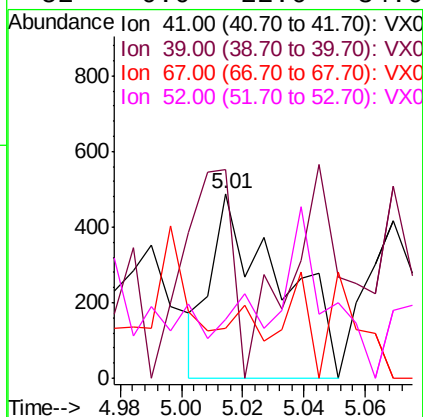
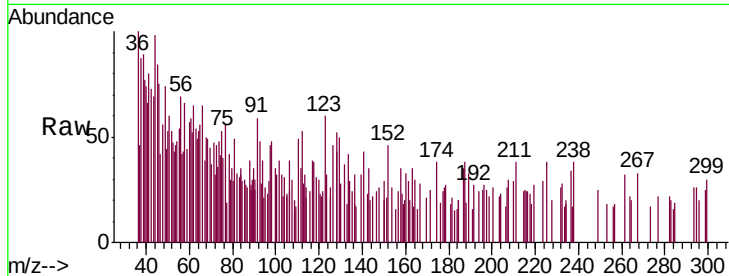




#41
Methacrylonitrile
Concen: 0.274 ug/l
RT: 5.01 min Scan# 677
Delta R.T. -0.02 min
Lab File: VX015204.D
Acq: 11 Mar 2020 16:32

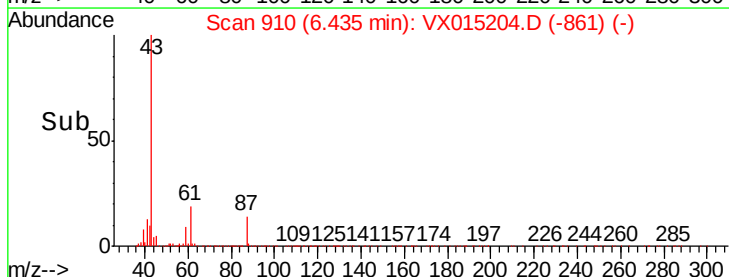
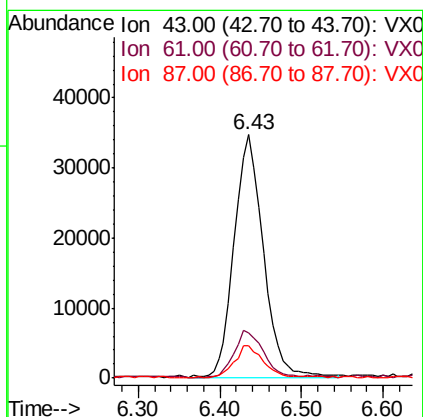
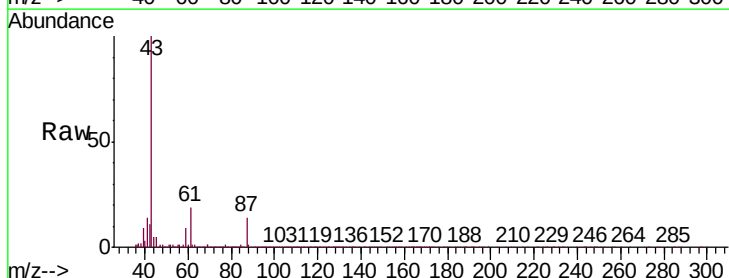
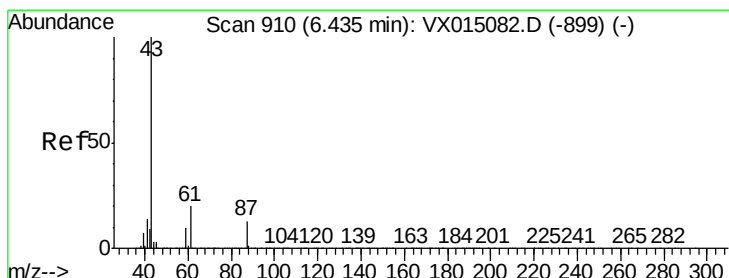
Instrument :
MSVOA_X
ClientSampleId :
PB127431ZHE#13

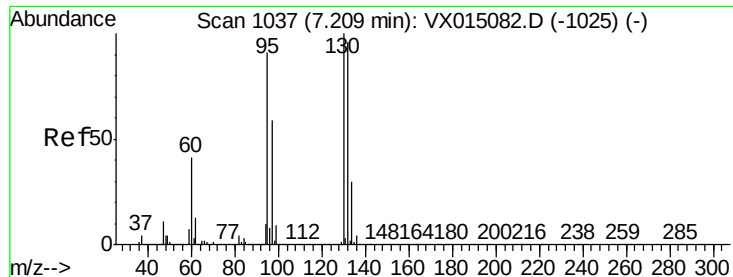
Tgt Ion:	41	Resp:	765
Ion	Ratio	Lower	Upper
41	100		
39	80.4	43.9	65.9#
67	0.0	57.8	86.8#
52	0.0	22.6	34.0#



#43
Isopropyl Acetate
Concen: 10.652 ug/l
RT: 6.43 min Scan# 910
Delta R.T. 0.00 min
Lab File: VX015204.D
Acq: 11 Mar 2020 16:32

Tgt Ion:	43	Resp:	87210
Ion	Ratio	Lower	Upper
43	100		
61	20.2	16.1	24.1
87	13.5	10.6	16.0





#44

Trichloroethene

Concen: 0.227 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. 0.00 min

Lab File: VX015204.D

Acq: 11 Mar 2020 16:32

Instrument :

MSVOA_X

ClientSampleId :

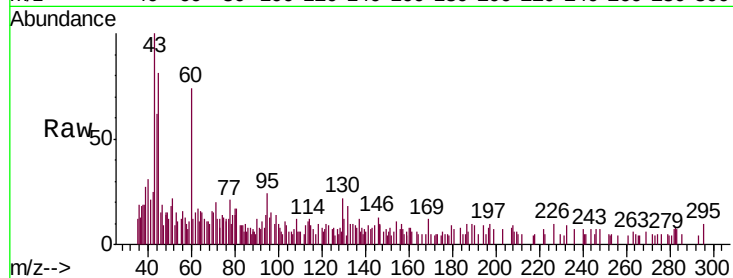
PB127431ZHE#13

Tgt Ion:130 Resp: 939

Ion Ratio Lower Upper

130 100

95 63.8 0.0 181.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.21

400

300

200

100

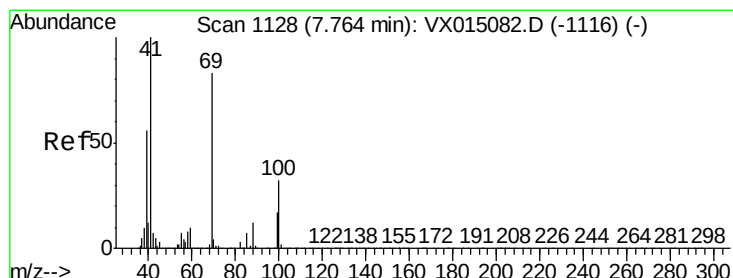
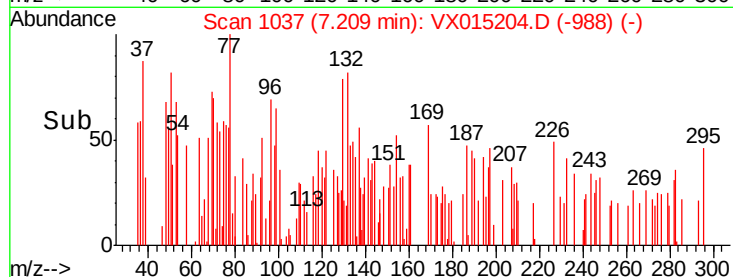
0

7.15

7.20

7.25

Time-->



#48

Methyl methacrylate

Concen: 36.127 ug/l

RT: 7.87 min Scan# 1145

Delta R.T. 0.10 min

Lab File: VX015204.D

Acq: 11 Mar 2020 16:32

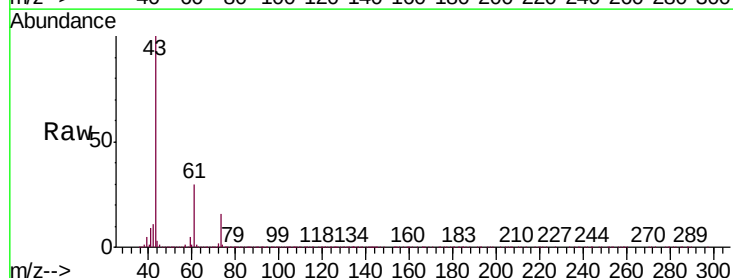
Tgt Ion: 41 Resp: 150538

Ion Ratio Lower Upper

41 100

69 0.4 65.4 98.2#

39 51.4 44.6 67.0



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

120000

100000

80000

60000

40000

20000

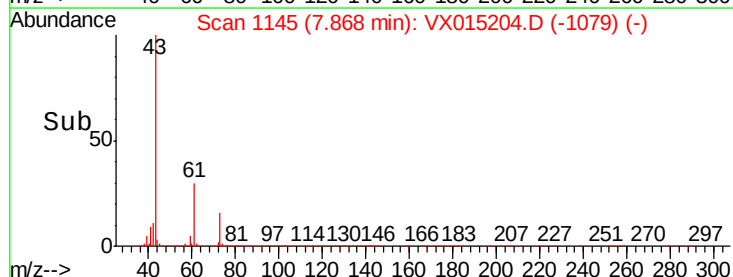
0

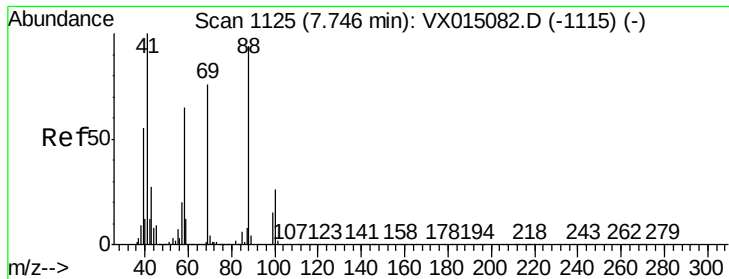
7.80

7.90

8.00

Time-->

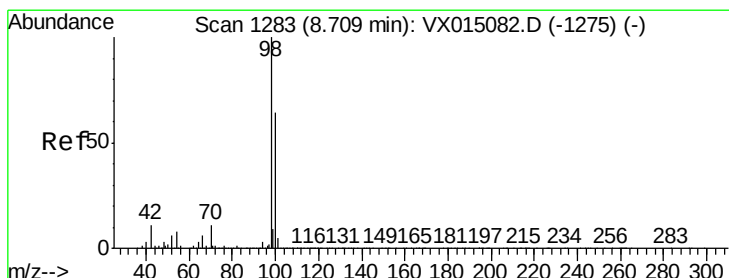
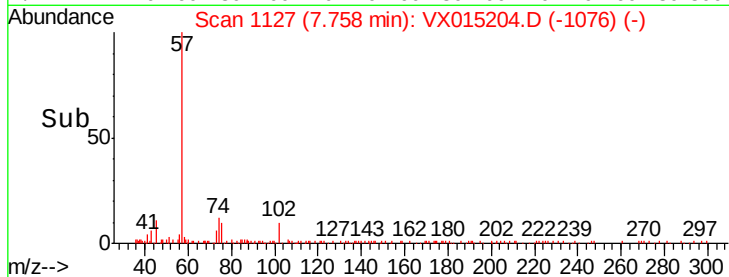
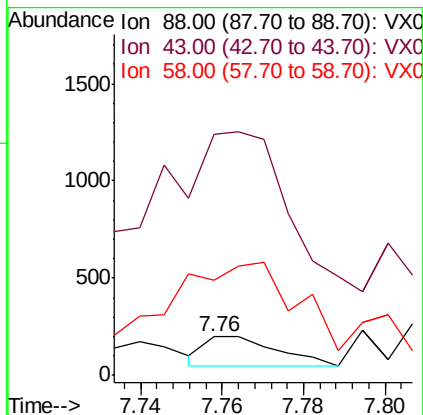
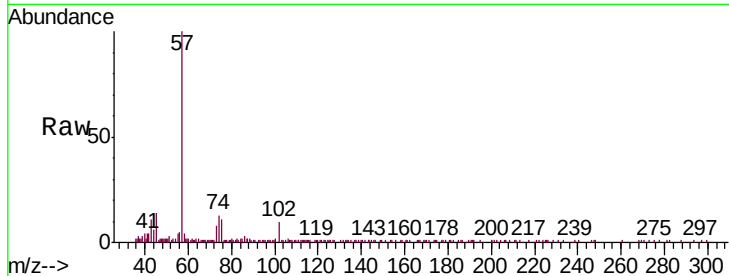




#49
1,4-Dioxane
Concen: 1.998 ug/l
RT: 7.76 min Scan# 1127
Delta R.T. 0.01 min
Lab File: VX015204.D
Acq: 11 Mar 2020 16:32

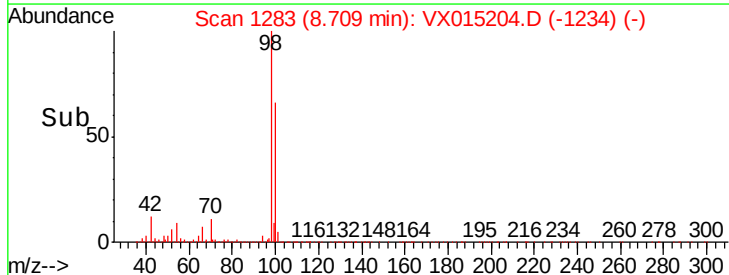
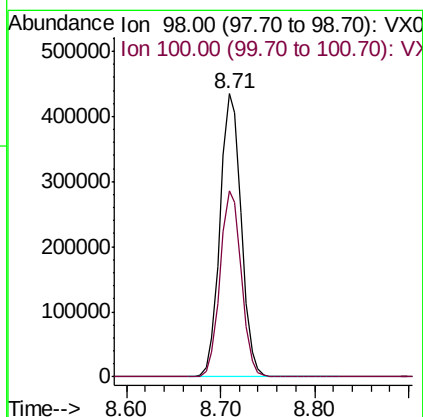
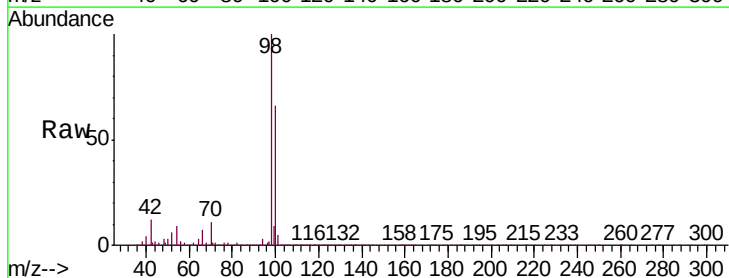
Instrument :
MSVOA_X
ClientSampleId :
PB127431ZHE#13

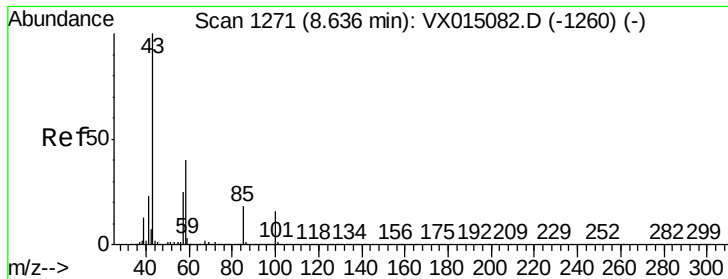
Tgt Ion: 88 Resp: 180
Ion Ratio Lower Upper
88 100
43 0.0 27.0 40.4#
58 512.8 55.6 83.4#



#50
Toluene-d8
Concen: 51.997 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. 0.00 min
Lab File: VX015204.D
Acq: 11 Mar 2020 16:32

Tgt Ion: 98 Resp: 677189
Ion Ratio Lower Upper
98 100
100 65.9 52.4 78.6

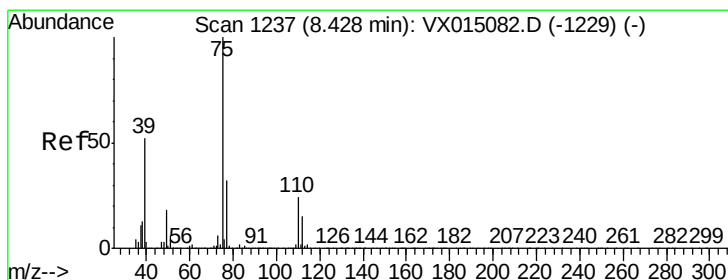
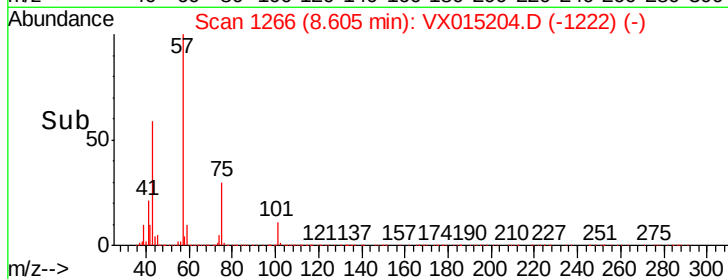
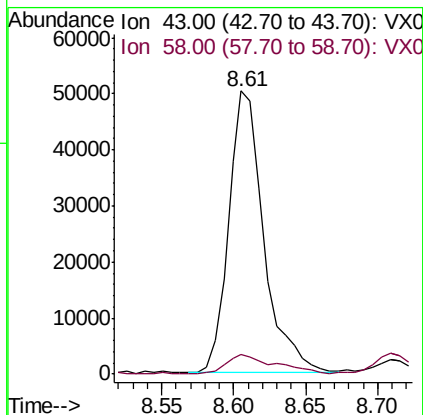
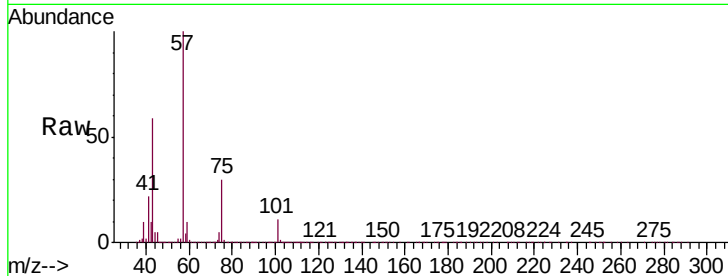




#51
 4-Methyl-2-Pentanone
 Concen: 17.616 ug/l
 RT: 8.61 min Scan# 1266
 Delta R.T. -0.03 min
 Lab File: VX015204.D
 Acq: 11 Mar 2020 16:32

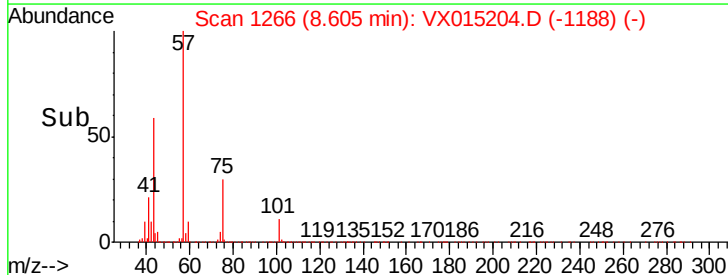
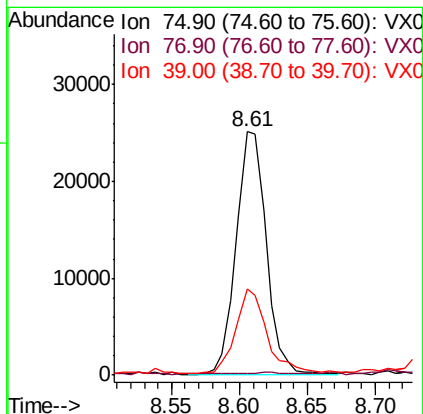
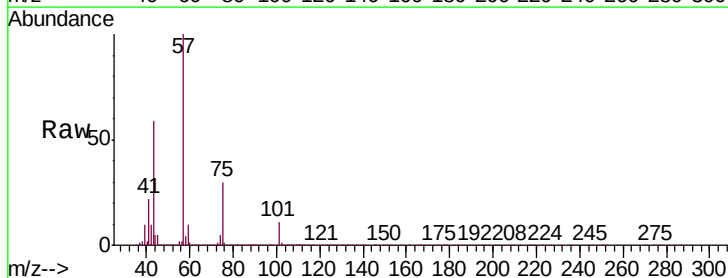
Instrument :
 MSVOA_X
 ClientSampleId :
 PB127431ZHE#13

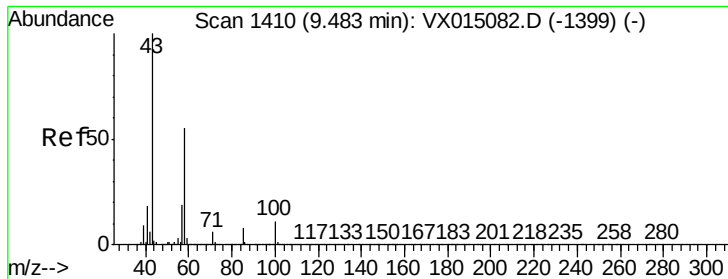
Tgt Ion: 43 Resp: 85271
 Ion Ratio Lower Upper
 43 100
 58 9.3 31.6 47.4#



#54
 cis-1,3-Dichloropropene
 Concen: 6.565 ug/l
 RT: 8.61 min Scan# 1266
 Delta R.T. 0.18 min
 Lab File: VX015204.D
 Acq: 11 Mar 2020 16:32

Tgt Ion: 75 Resp: 39216
 Ion Ratio Lower Upper
 75 100
 77 0.1 25.8 38.6#
 39 34.9 41.3 61.9#

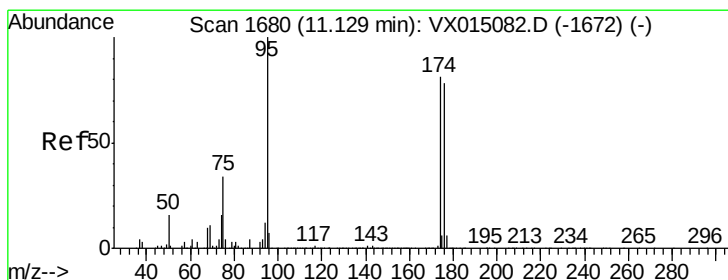
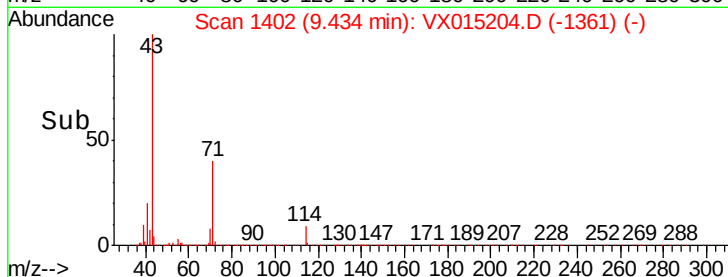
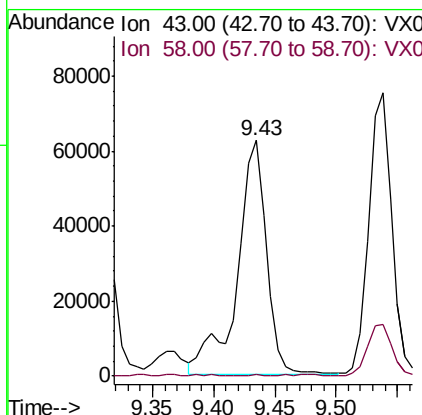
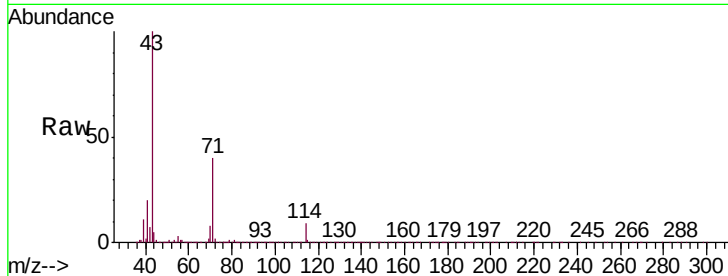




#59
2-Hexanone
Concen: 29.106 ug/l
RT: 9.43 min Scan# 1402
Delta R.T. -0.05 min
Lab File: VX015204.D
Acq: 11 Mar 2020 16:32

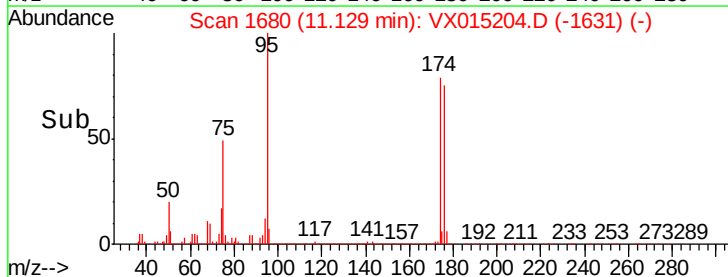
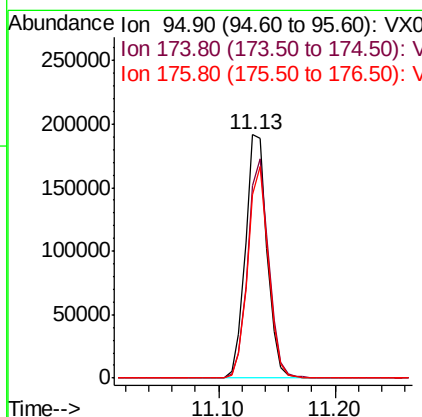
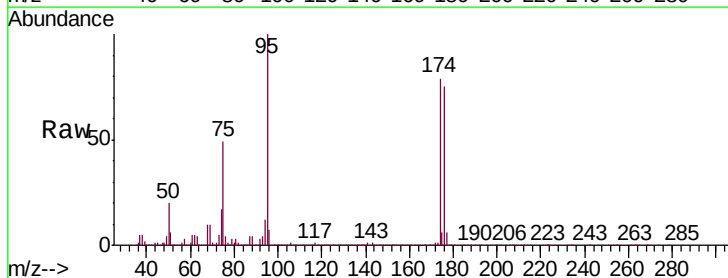
Instrument :
MSVOA_X
ClientSampleId :
PB127431ZHE#13

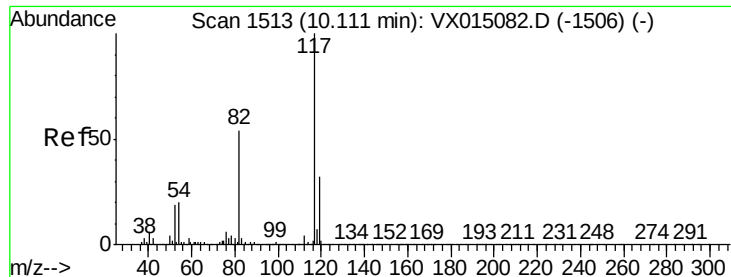
Tgt Ion: 43 Resp: 104428
Ion Ratio Lower Upper
43 100
58 0.0 27.3 81.8#



#62
4-Bromofluorobenzene
Concen: 53.561 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. 0.00 min
Lab File: VX015204.D
Acq: 11 Mar 2020 16:32

Tgt Ion: 95 Resp: 248809
Ion Ratio Lower Upper
95 100
174 87.8 0.0 177.6
176 83.9 0.0 170.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VX015204.D

Acq: 11 Mar 2020 16:32

Instrument :

MSVOA_X

ClientSampleId :

PB127431ZHE#13

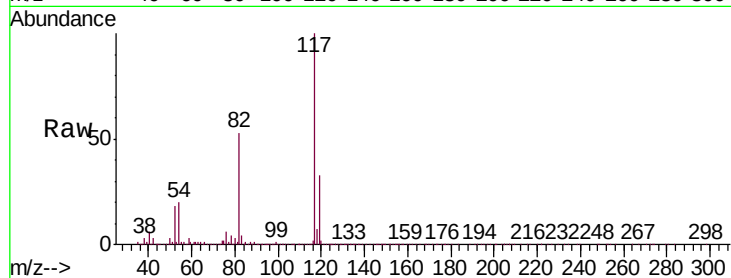
Tgt Ion:117 Resp: 542580

Ion Ratio Lower Upper

117 100

82 52.9 43.3 64.9

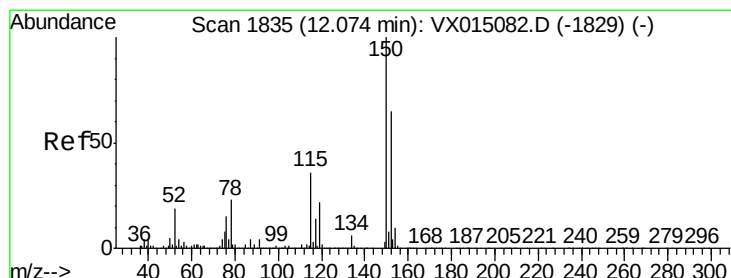
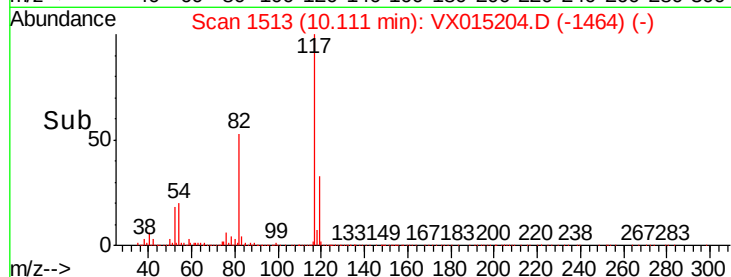
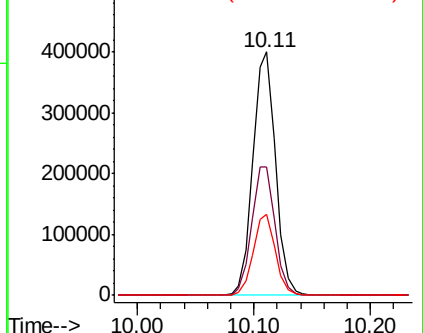
119 33.1 25.8 38.8



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX015204.D

Acq: 11 Mar 2020 16:32

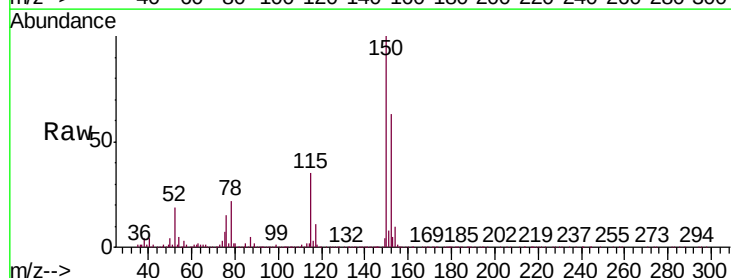
Tgt Ion:152 Resp: 268215

Ion Ratio Lower Upper

152 100

115 55.6 38.2 114.6

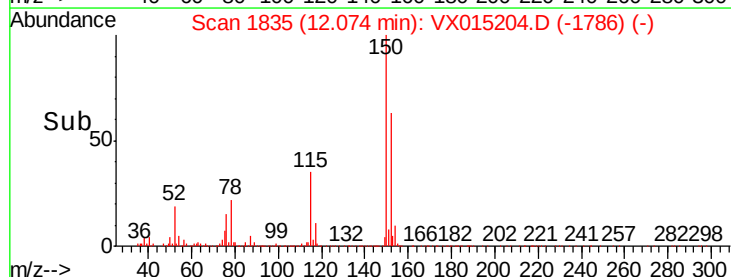
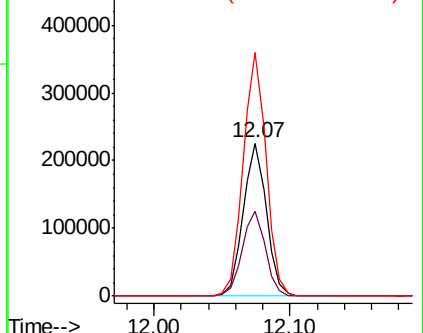
150 158.0 0.0 343.8

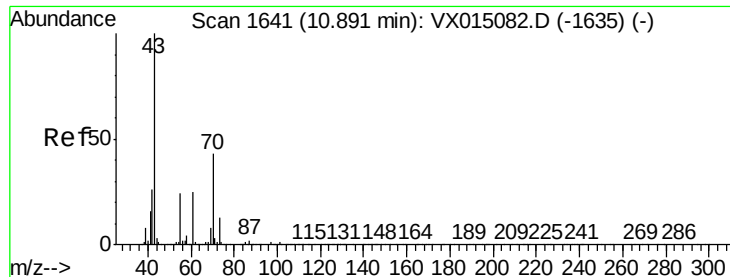


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-ethyl acetate

Concen: 0.454 ug/l

RT: 10.82 min Scan# 1629

Delta R.T. -0.07 min

Lab File: VX015204.D

Acq: 11 Mar 2020 16:32

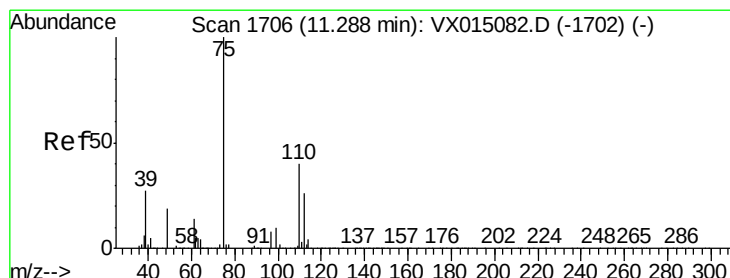
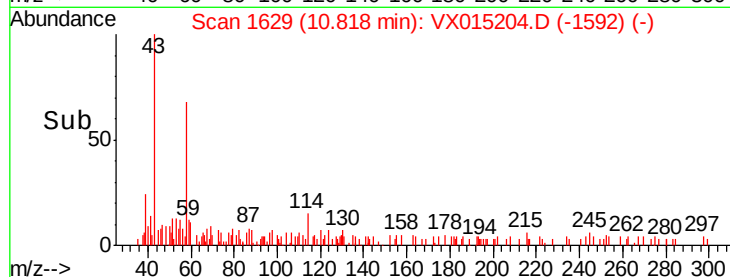
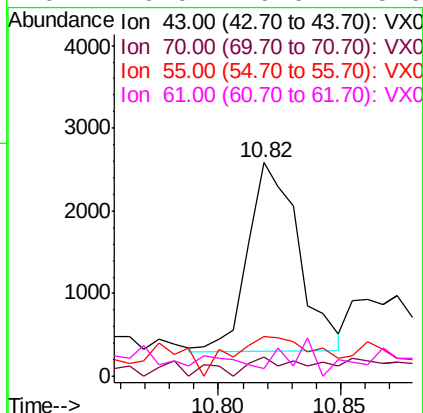
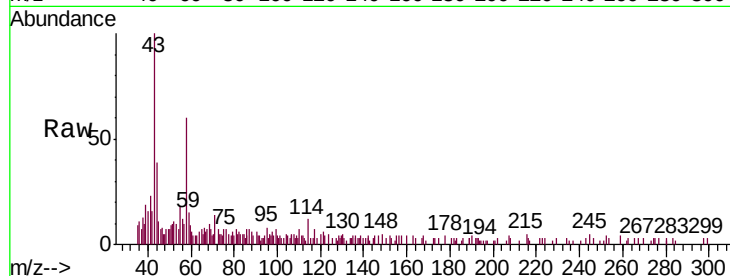
Instrument :

MSVOA_X

ClientSampleId :

PB127431ZHE#13

Tgt Ion:	43	Resp:	3275
Ion	Ratio	Lower	Upper
43	100		
70	9.2	34.7	52.1#
55	35.2	19.4	29.0#
61	0.0	19.0	28.6#



#76

1,2,3-Trichloropropane

Concen: 22.879 ug/l

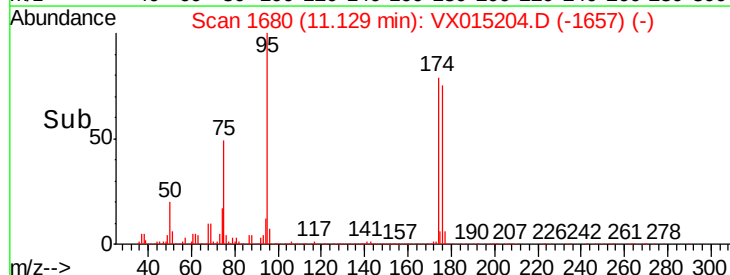
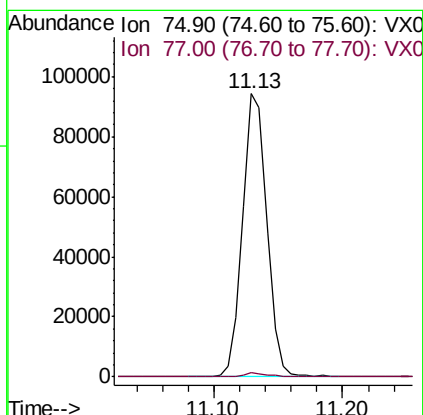
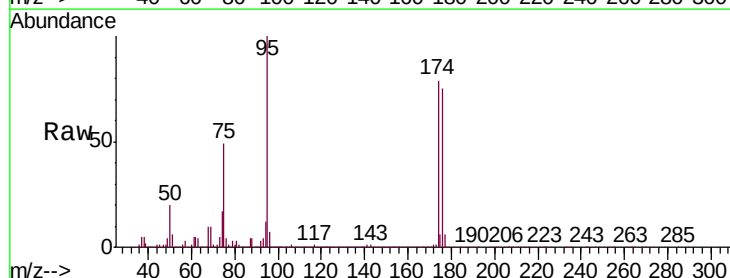
RT: 11.13 min Scan# 1680

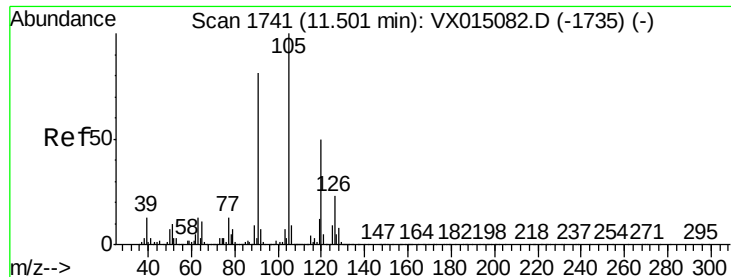
Delta R.T. -0.16 min

Lab File: VX015204.D

Acq: 11 Mar 2020 16:32

Tgt Ion:	75	Resp:	122407
Ion	Ratio	Lower	Upper
75	100		
77	1.4	22.6	67.8#

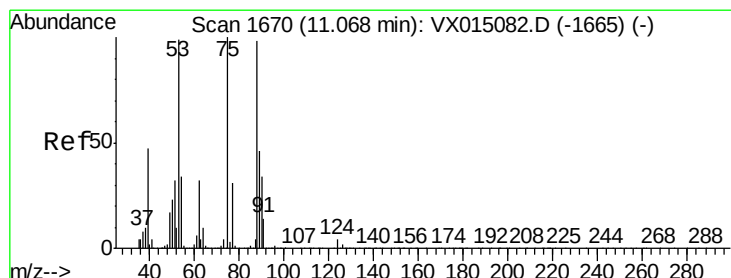
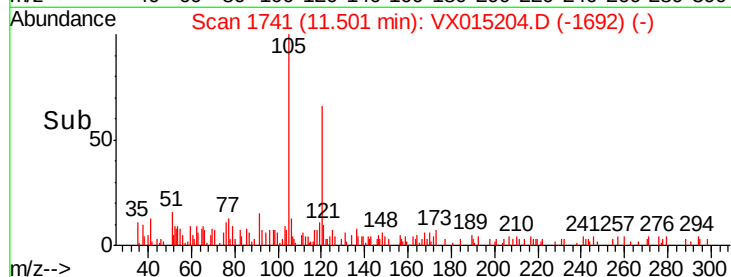
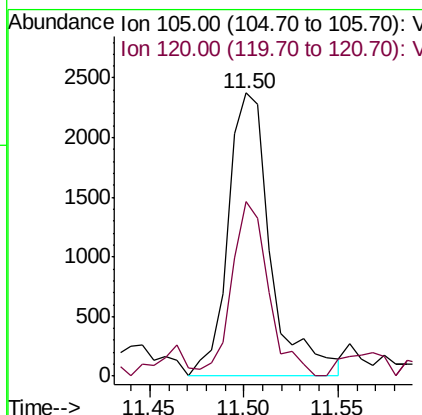
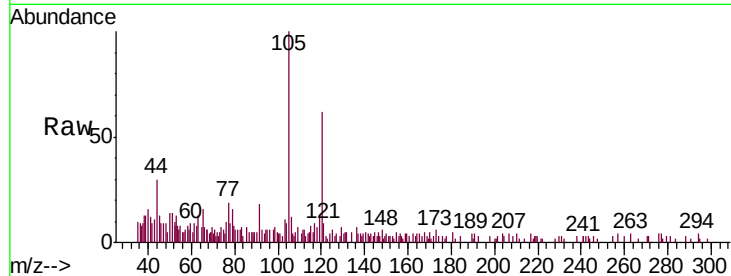




#80
 1,3,5-Trimethylbenzene
 Concen: 0.262 ug/l
 RT: 11.50 min Scan# 1741
 Delta R.T. 0.00 min
 Lab File: VX015204.D
 Acq: 11 Mar 2020 16:32

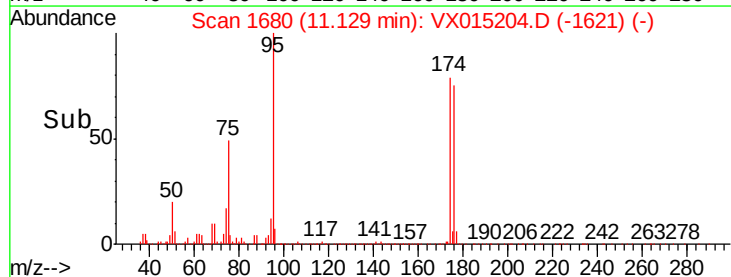
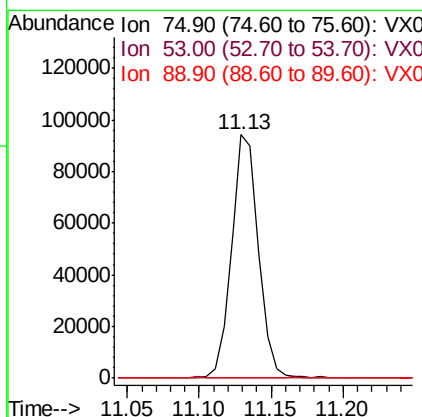
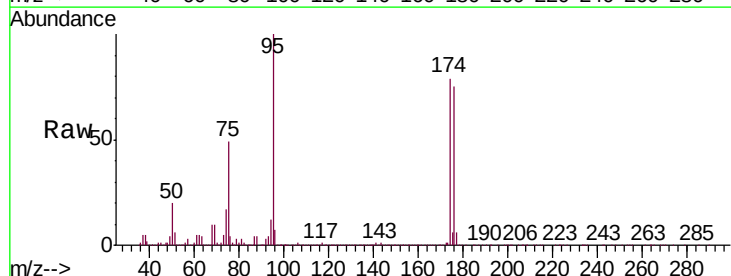
Instrument :
 MSVOA_X
 ClientSampleId :
 PB127431ZHE#13

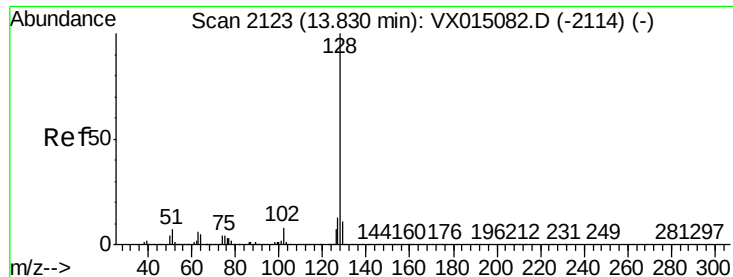
Tgt Ion: 105 Resp: 3736
 Ion Ratio Lower Upper
 105 100
 120 52.7 25.1 75.4



#81
 trans-1,4-Dichloro-2-butene
 Concen: 64.830 ug/l
 RT: 11.13 min Scan# 1680
 Delta R.T. 0.06 min
 Lab File: VX015204.D
 Acq: 11 Mar 2020 16:32

Tgt Ion: 75 Resp: 122215
 Ion Ratio Lower Upper
 75 100
 53 0.2 77.9 116.9#
 89 0.1 36.2 54.2#





#95
Naphthalene
Concen: 1.457 ug/l
RT: 13.83 min Scan# 2123
Delta R.T. 0.00 min
Lab File: VX015204.D
Acq: 11 Mar 2020 16:32

Instrument :
MSVOA_X
ClientSampleId :
PB127431ZHE#13

Tgt Ion:128 Resp: 681
Ion Ratio Lower Upper
128 100
127 0.0 10.3 15.5#
129 51.0 8.6 13.0#

