

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD120519\
 Data File : VD064440.D
 Acq On : 05 Dec 2019 17:02
 Operator : VA/SY
 Sample : K6164-01RE
 Misc : 6.34G/5.00ml/MSVOA D/SOIL
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 BOX-2512

Quant Time: Dec 06 05:55:55 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D112719S.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 29 07:18:03 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	528622	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.86	114	844484	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	716428	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	240135	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.33	65	277565	58.01	ug/l	0.00
Spiked Amount	50.000		Recovery	=	116.02%	
35) Dibromofluoromethane	7.91	113	274688	51.63	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.26%	
50) Toluene-d8	10.34	98	956944	47.75	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.50%	
62) 4-Bromofluorobenzene	12.64	95	278721	43.27	ug/l	0.00
Spiked Amount	50.000		Recovery	=	86.54%	

Target Compounds

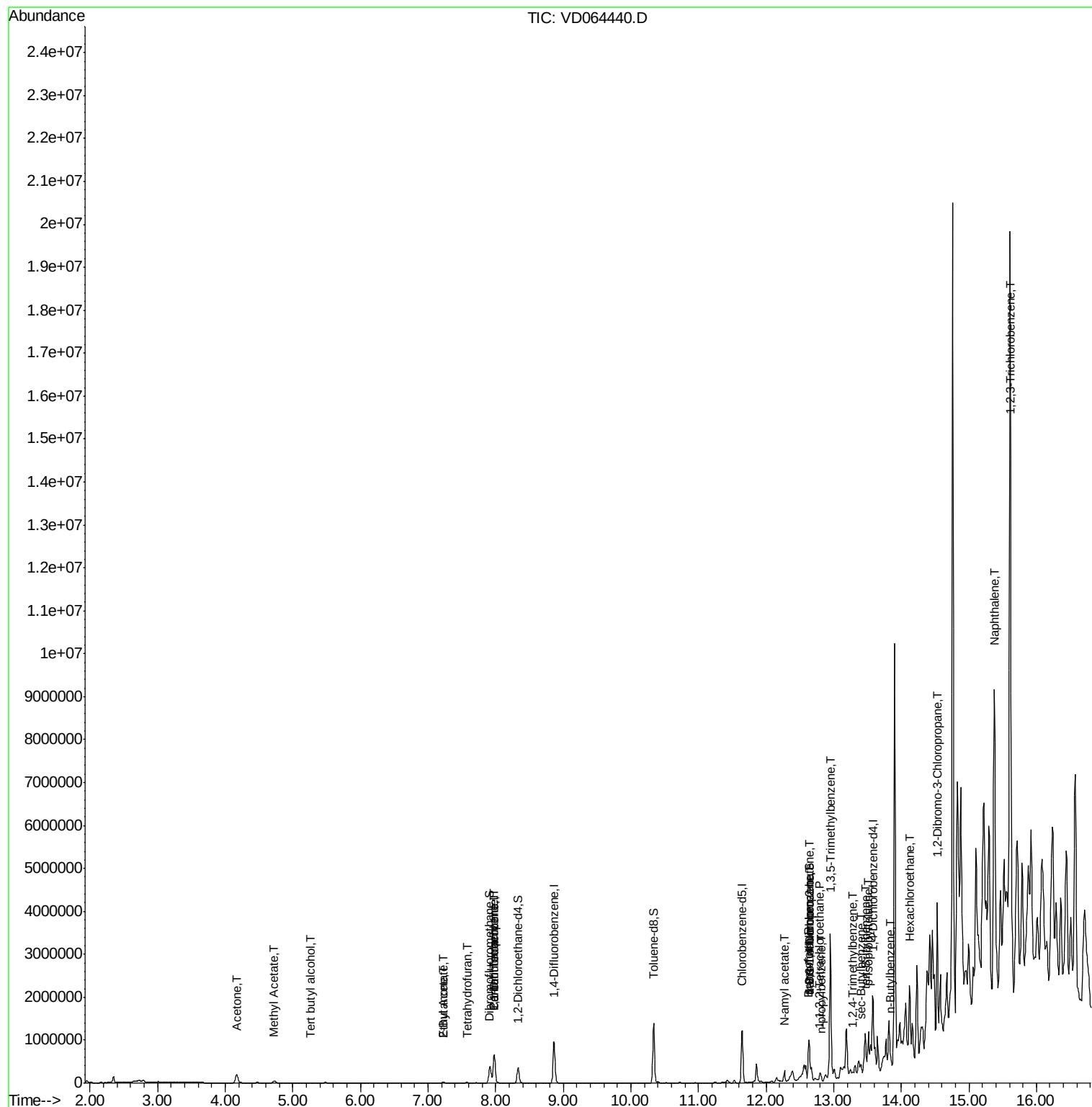
						Qvalue
11) Tert butyl alcohol	5.27	59	3725	12.230	ug/l #	100
16) Acetone	4.17	43	339654	351.277	ug/l	96
18) Methyl Acetate	4.72	43	74026	26.247	ug/l	97
20) Methylene Chloride	4.96	84	1502	Below Cal	#	46
25) 2-Butanone	7.22	43	14359	10.501	ug/l #	90
29) Tetrahydrofuran	7.58	42	7677	8.824	ug/l	98
31) Cyclohexane	7.98	56	11833	Below Cal	#	33
36) 1,1-Dichloropropene	7.98	75	36659	4.589	ug/l #	48
37) Ethyl Acetate	7.22	43	14359	4.237	ug/l #	70
38) Carbon Tetrachloride	7.98	117	47793	5.669	ug/l #	16
71) Bromoform	12.63	173	3797	1.147	ug/l #	1
74) N-amyl acetate	12.27	43	55595	14.183	ug/l #	67
75) 1,1,2,2-Tetrachloroethane	12.80	83	16841	5.897	ug/l #	27
76) 1,2,3-Trichloropropane	12.63	75	143161	72.494	ug/l #	100
78) n-propylbenzene	12.83	91	21441	1.076	ug/l	95
80) 1,3,5-Trimethylbenzene	12.96	105	93661	6.636	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.63	75	143161	158.075	ug/l #	9
83) tert-Butylbenzene	13.47	119	156834	12.782	ug/l #	65
84) 1,2,4-Trimethylbenzene	13.27	105	17174	1.210	ug/l	93
85) sec-Butylbenzene	13.41	105	96082	5.705	ug/l	90
86) p-Isopropyltoluene	13.52	119	112937	7.103	ug/l	98
89) n-Butylbenzene	13.85	91	70694	4.896	ug/l #	55
90) Hexachloroethane	14.13	117	68758	23.122	ug/l #	5
92) 1,2-Dibromo-3-Chloropropan	14.53	75	5807	10.112	ug/l #	19
95) Naphthalene	15.38	128	69605	7.872	ug/l #	1
96) 1,2,3-Trichlorobenzene	15.63	180	13654	3.019	ug/l #	1

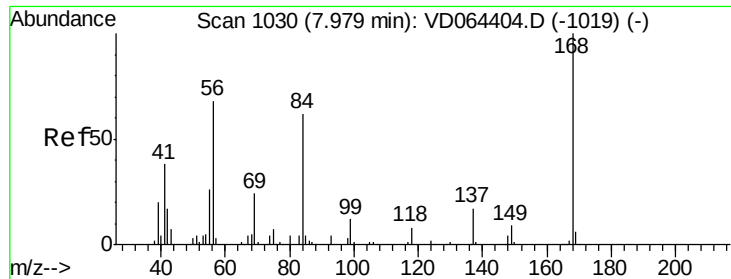
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D112719S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 29 07:18:03 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.00 min

Lab File: VD064440.D

Acq: 05 Dec 2019 17:02

Instrument :

MSVOA_D

ClientSampleId :

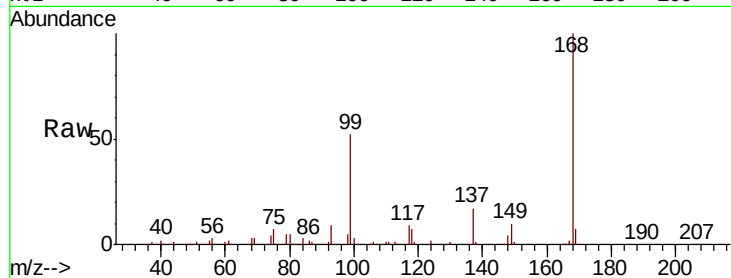
BOX-2512

Tot Ion:168 Resp: 528622

Ion Ratio Lower Upper

168 100

99 51.9 40.7 61.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

250000

200000

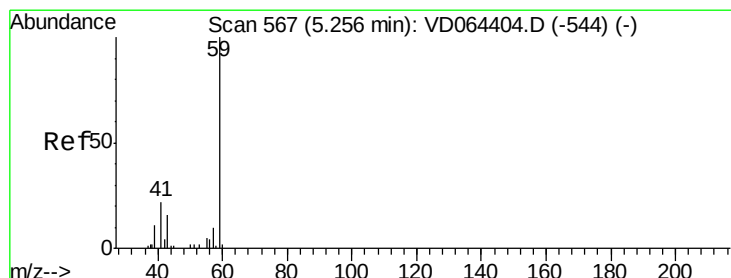
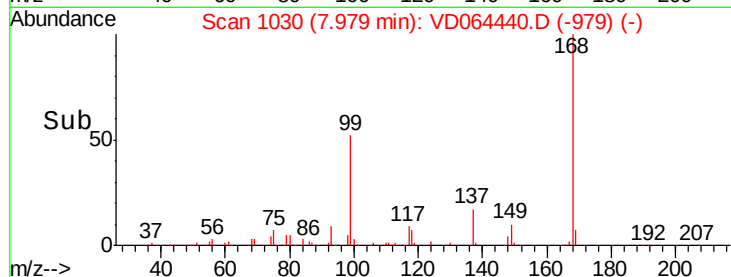
150000

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 12.230 ug/l

RT: 5.27 min Scan# 570

Delta R.T. 0.02 min

Lab File: VD064440.D

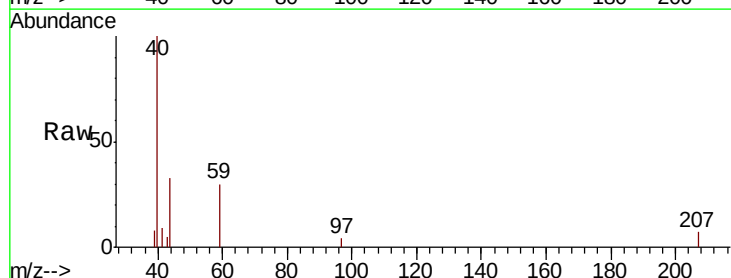
Acq: 05 Dec 2019 17:02

Tgt Ion: 59 Resp: 3725

Ion Ratio Lower Upper

59 100

57 3.0 0.0 0.0#



Abundance Ion 59.00 (58.70 to 59.70): VDC

Ion 57.00 (56.70 to 57.70): VDC

5.27

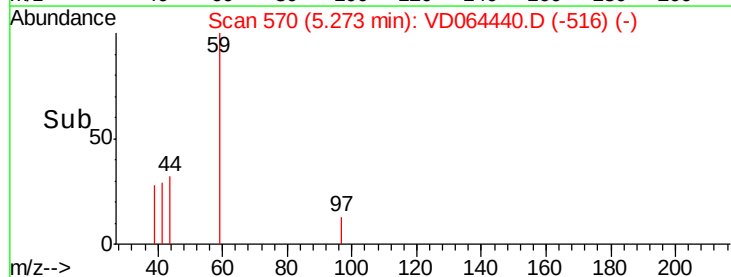
1500

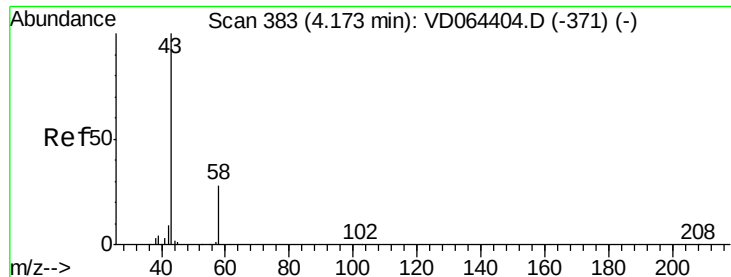
1000

500

0

Time-->





#16

Acetone

Concen: 351.277 ug/l

RT: 4.17 min Scan# 382

Delta R.T. -0.01 min

Lab File: VD064440.D

Acq: 05 Dec 2019 17:02

Instrument :

MSVOA_D

ClientSampleId :

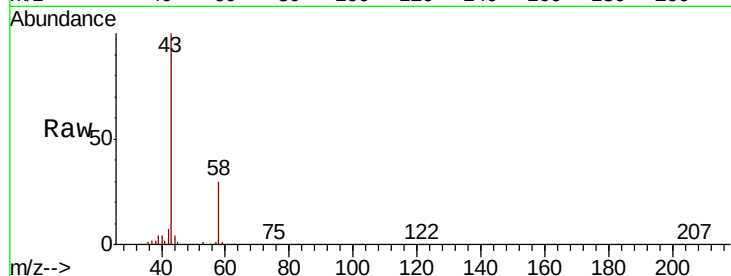
BOX-2512

Tot Ion: 43 Resp: 339654

Ion Ratio Lower Upper

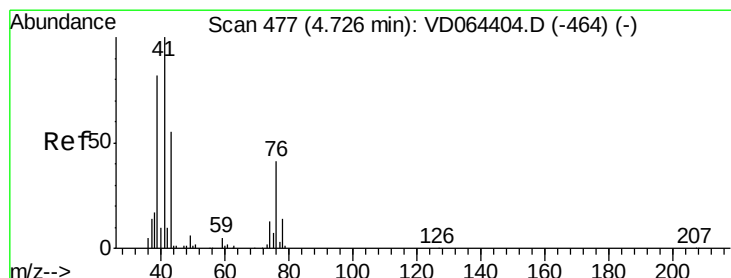
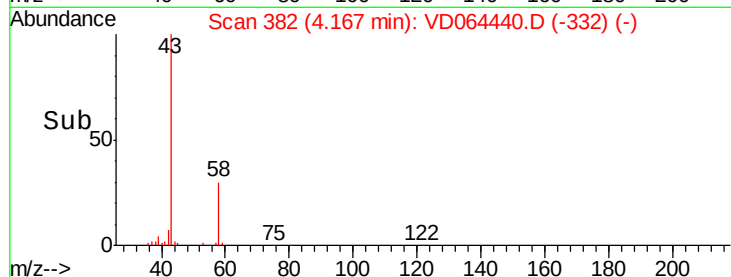
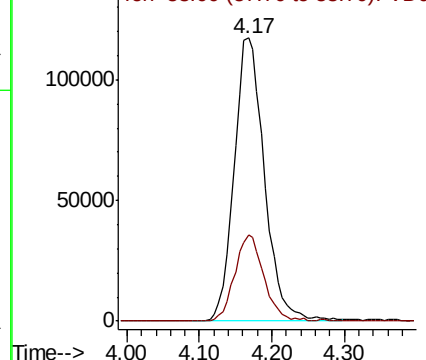
43 100

58 30.4 22.6 33.8



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#18

Methyl Acetate

Concen: 26.247 ug/l

RT: 4.72 min Scan# 476

Delta R.T. -0.01 min

Lab File: VD064440.D

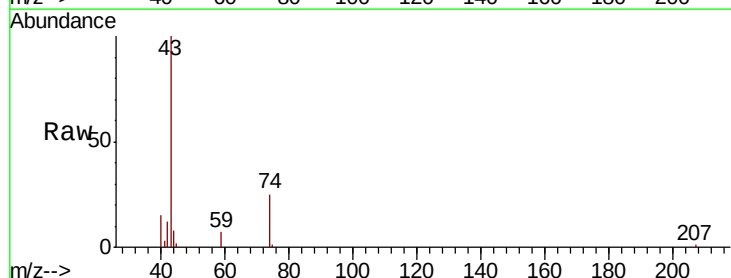
Acq: 05 Dec 2019 17:02

Tgt Ion: 43 Resp: 74026

Ion Ratio Lower Upper

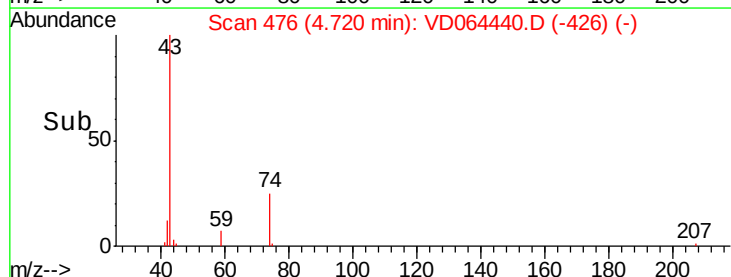
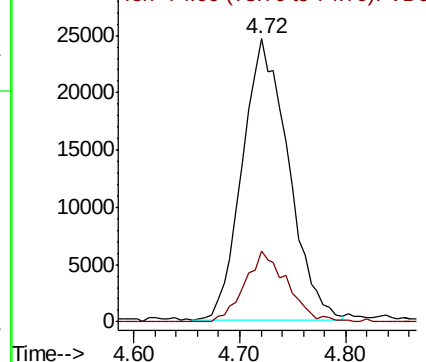
43 100

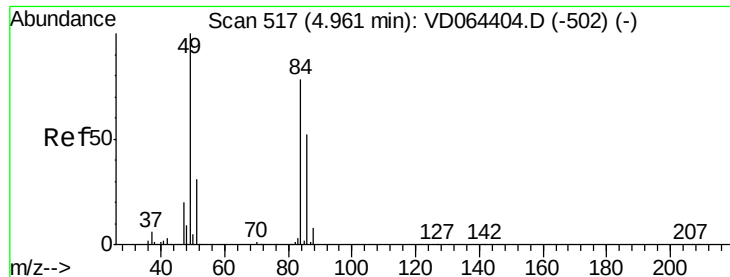
74 23.1 19.7 29.5



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 74.00 (73.70 to 74.70): VDC

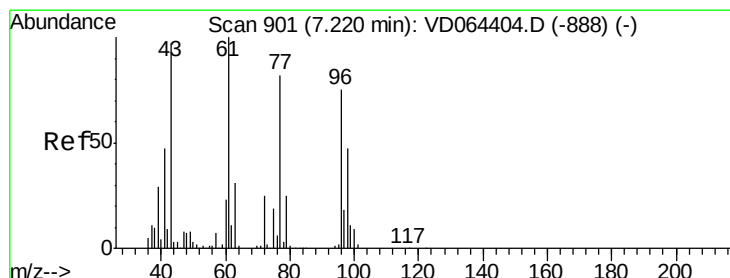
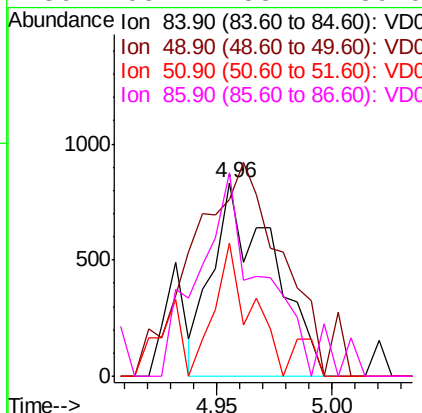
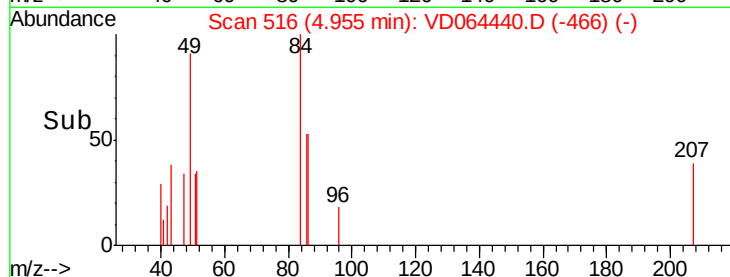
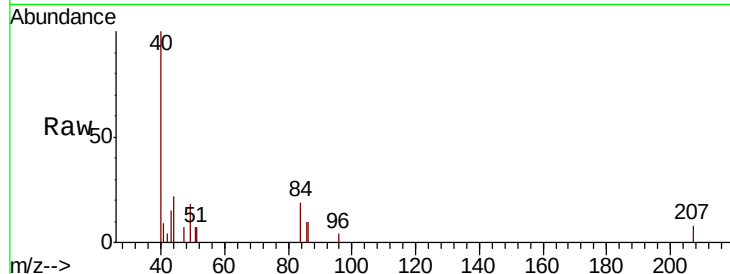




#20
Methylene Chloride
Concen: Below Cal
RT: 4.96 min Scan# 516
Delta R.T. -0.01 min
Lab File: VD064440.D
Acq: 05 Dec 2019 17:02

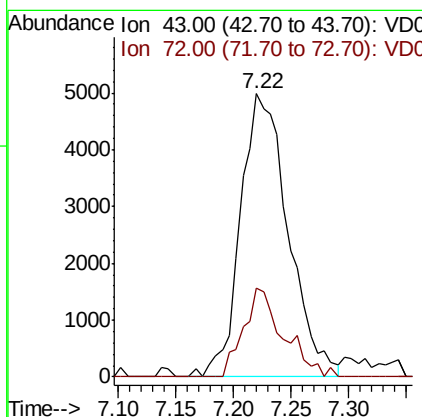
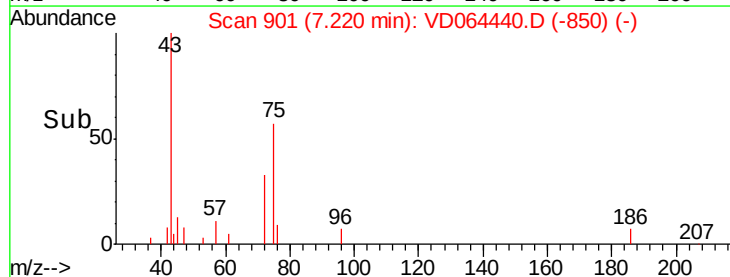
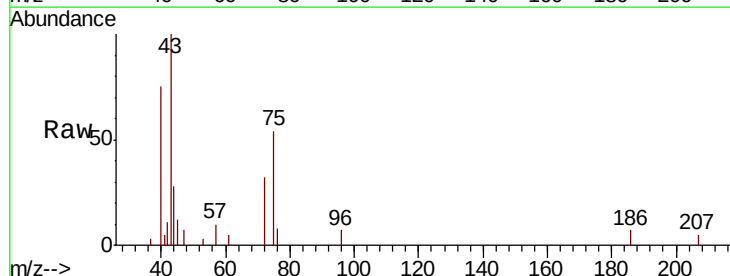
Instrument :
MSVOA_D
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BOX-2512

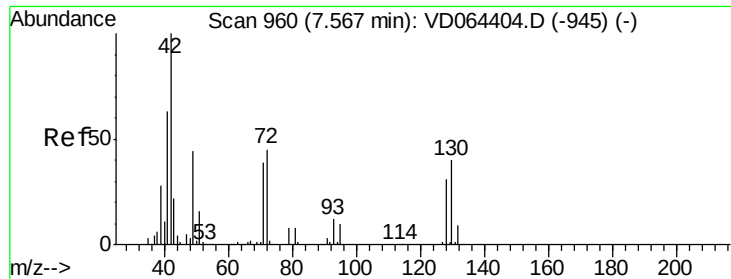
Tot Ion: 84 Resp: 1502
Ion Ratio Lower Upper
84 100
49 58.5 102.6 153.8#
51 68.7 32.0 48.0#
86 105.2 53.4 80.0#



#25
2-Butanone
Concen: 10.501 ug/l
RT: 7.22 min Scan# 901
Delta R.T. -0.00 min
Lab File: VD064440.D
Acq: 05 Dec 2019 17:02

Tgt Ion: 43 Resp: 14359
Ion Ratio Lower Upper
43 100
72 31.5 21.0 31.4#

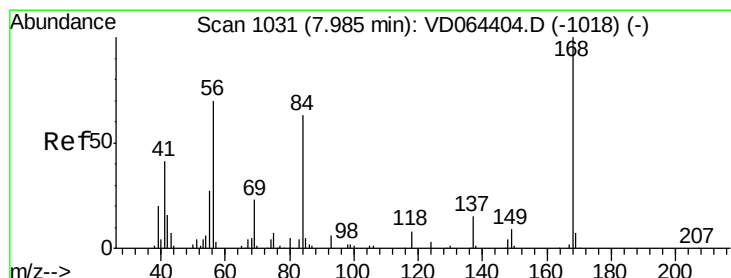
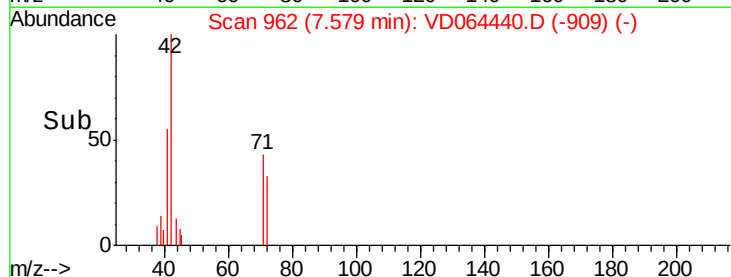
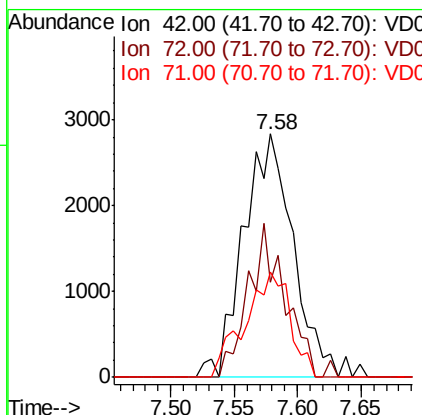
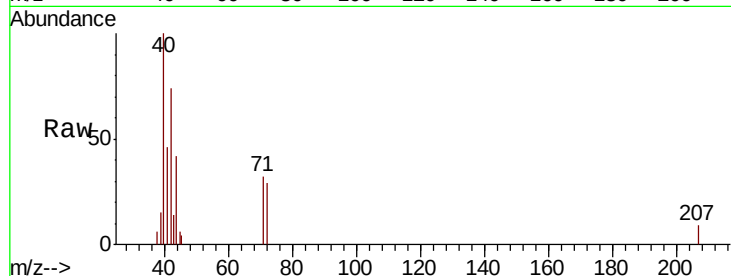




#29
Tetrahydrofuran
Concen: 8.824 ug/l
RT: 7.58 min Scan# 962
Delta R.T. 0.01 min
Lab File: VD064440.D
Acq: 05 Dec 2019 17:02

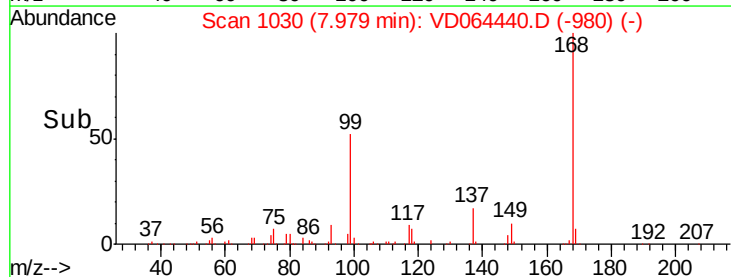
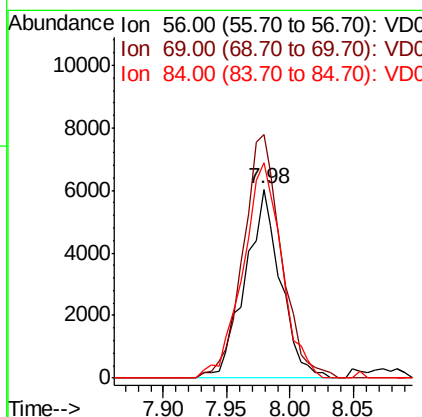
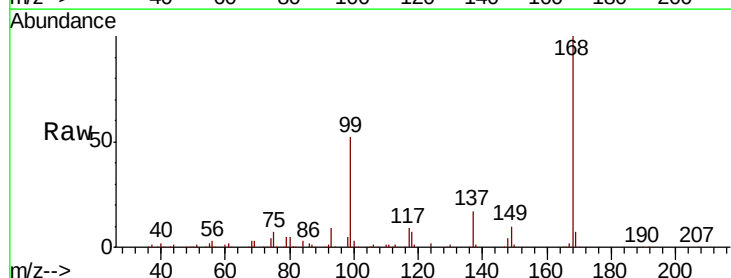
Instrument :
MSVOA_D
ClientSampleId :
BOX-2512

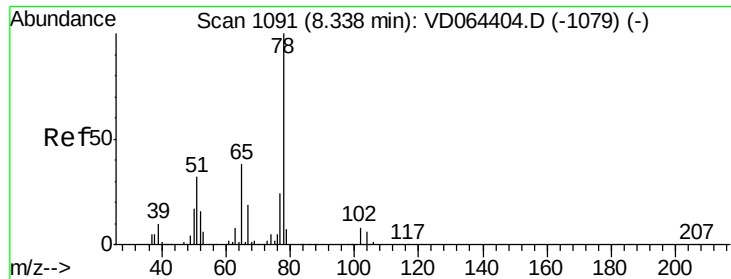
Tot Ion: 42 Resp: 7677
Ion Ratio Lower Upper
42 100
72 46.8 35.8 53.8
71 39.8 32.7 49.1



#31
Cyclohexane
Concen: Below Cal
RT: 7.98 min Scan# 1030
Delta R.T. -0.01 min
Lab File: VD064440.D
Acq: 05 Dec 2019 17:02

Tgt Ion: 56 Resp: 11833
Ion Ratio Lower Upper
56 100
69 129.1 26.2 39.4#
84 114.6 70.3 105.5#

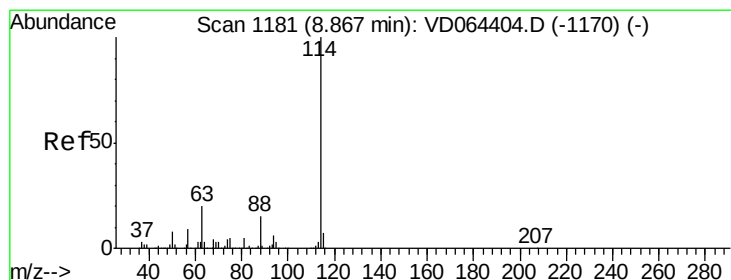
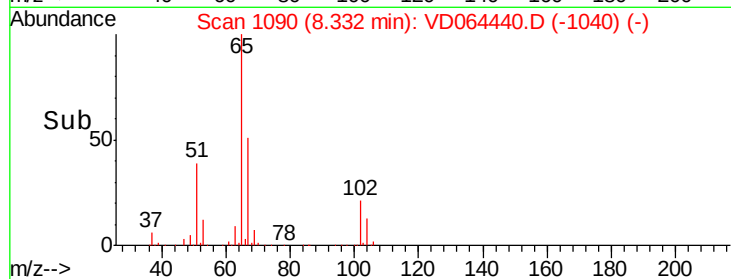
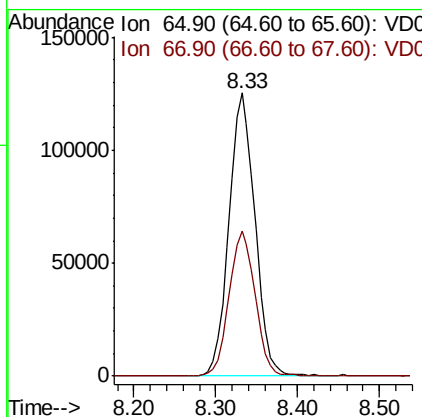
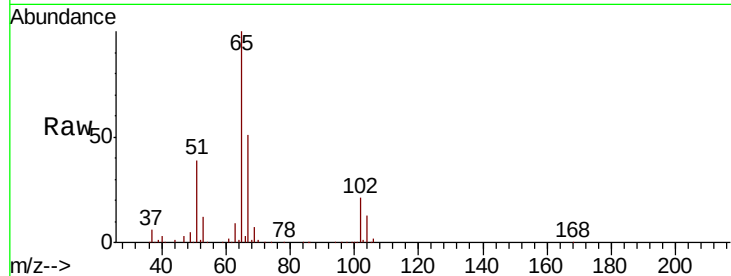




#33
 1,2-Dichloroethane-d4
 Concen: 58.010 ug/l
 RT: 8.33 min Scan# 1090
 Delta R.T. -0.01 min
 Lab File: VD064440.D
 Acq: 05 Dec 2019 17:02

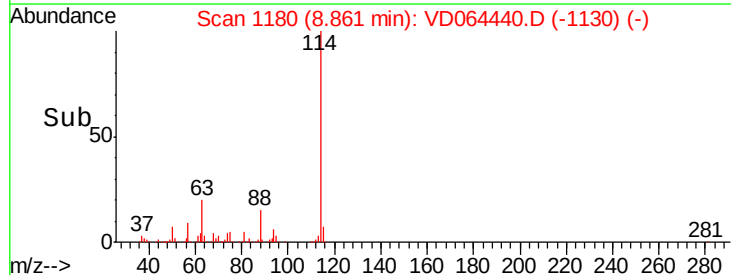
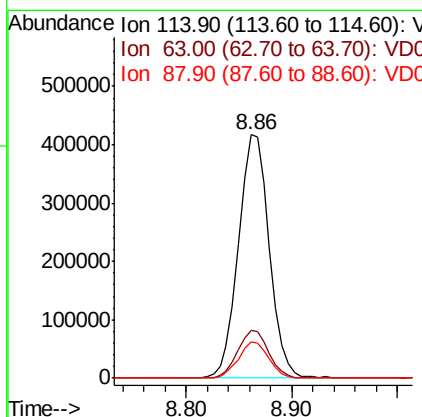
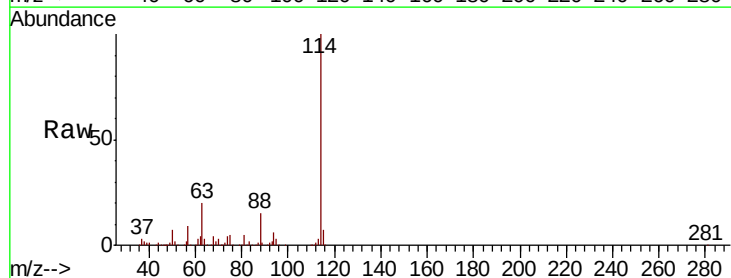
Instrument :
 MSVOA_D
 ClientSampled :
 BOX-2512

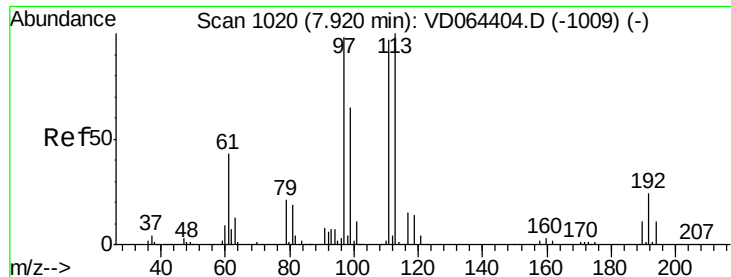
Tot Ion: 65 Resp: 277565
 Ion Ratio Lower Upper
 65 100
 67 51.3 0.0 102.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.86 min Scan# 1180
 Delta R.T. -0.01 min
 Lab File: VD064440.D
 Acq: 05 Dec 2019 17:02

Tgt Ion: 114 Resp: 844484
 Ion Ratio Lower Upper
 114 100
 63 19.6 0.0 40.0
 88 14.9 0.0 29.2





#35

Dibromofluoromethane

Concen: 51.627 ug/l

RT: 7.91 min Scan# 1019

Delta R.T. -0.01 min

Lab File: VD064440.D

Acq: 05 Dec 2019 17:02

Instrument :

MSVOA_D

ClientSampleId :

BOX-2512

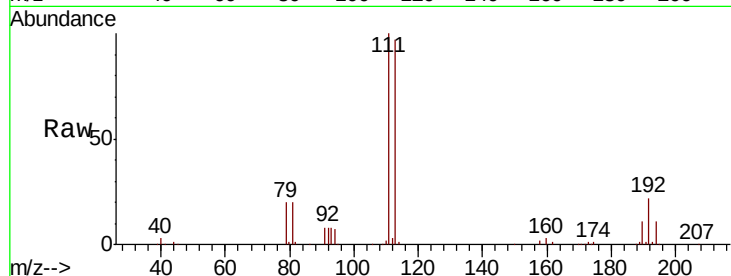
Tot Ion:113 Resp: 274688

Ion Ratio Lower Upper

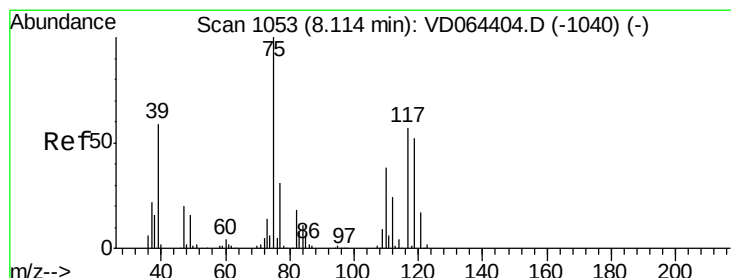
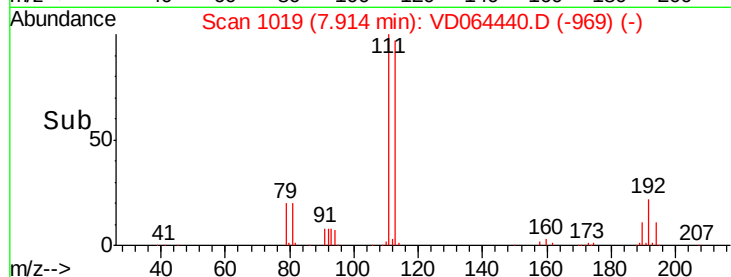
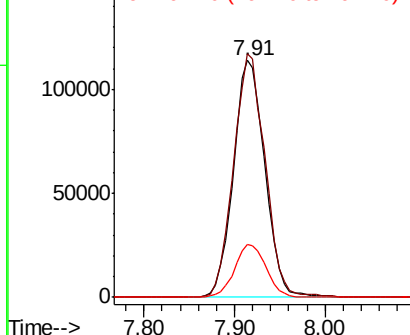
113 100

111 102.9 79.4 119.2

192 22.2 18.6 28.0



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: 4.589 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.14 min

Lab File: VD064440.D

Acq: 05 Dec 2019 17:02

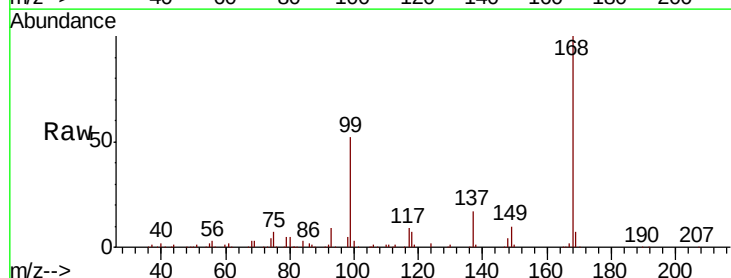
Tgt Ion: 75 Resp: 36659

Ion Ratio Lower Upper

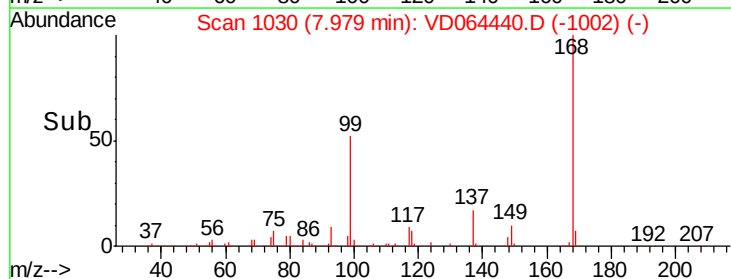
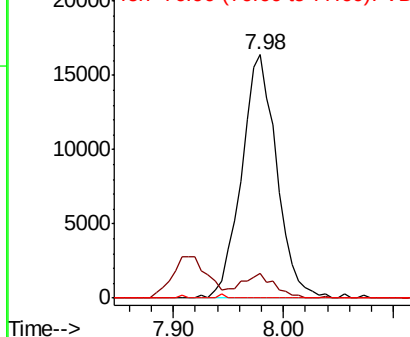
75 100

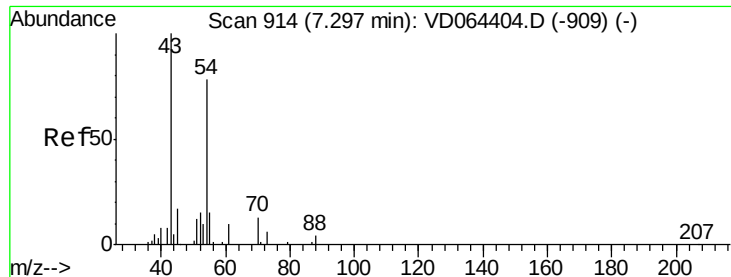
110 8.6 18.6 55.8#

77 0.0 25.0 37.4#



Abundance Ion 74.90 (74.60 to 75.60): V
Ion 109.90 (109.60 to 110.60): V
Ion 76.90 (76.60 to 77.60): V

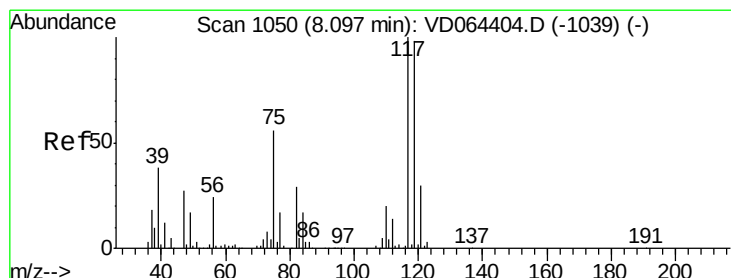
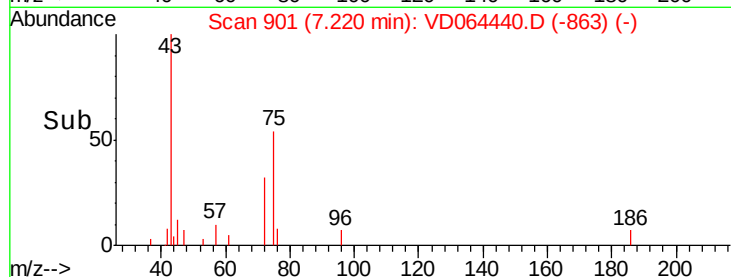
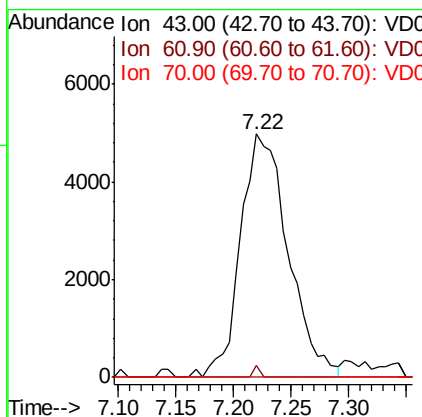
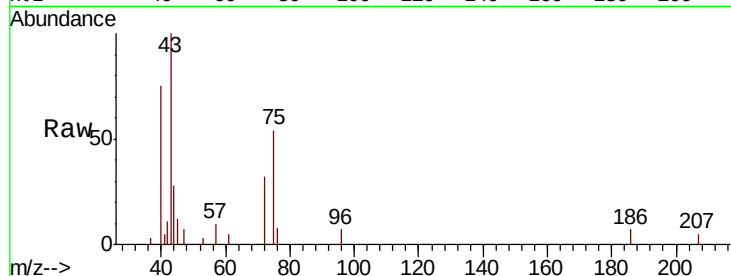




#37
Ethyl Acetate
Concen: 4.237 ug/l
RT: 7.22 min Scan# 901
Delta R.T. -0.08 min
Lab File: VD064440.D
Acq: 05 Dec 2019 17:02

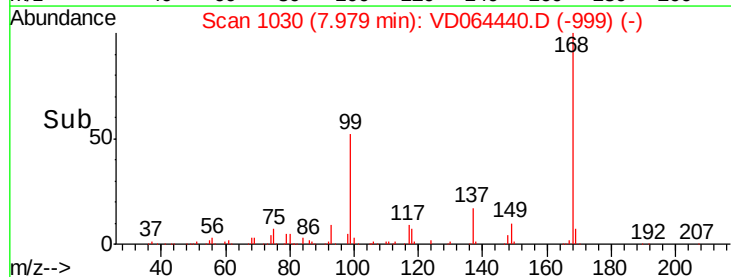
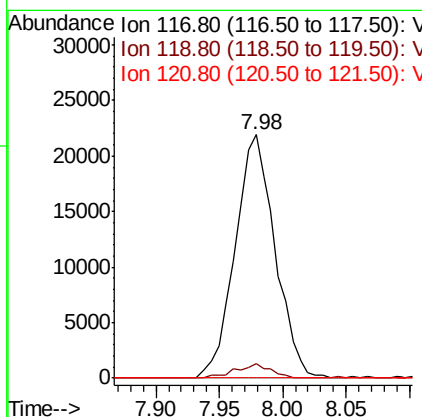
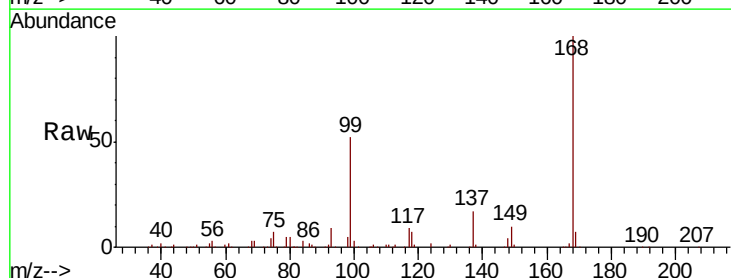
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BOX-2512

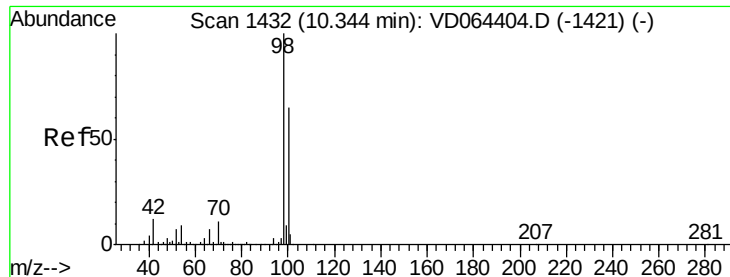
Tot Ion: 43 Resp: 14359
Ion Ratio Lower Upper
43 100
61 0.6 10.9 16.3#
70 0.0 8.3 12.5#



#38
Carbon Tetrachloride
Concen: 5.669 ug/l
RT: 7.98 min Scan# 1030
Delta R.T. -0.12 min
Lab File: VD064440.D
Acq: 05 Dec 2019 17:02

Tgt Ion: 117 Resp: 47793
Ion Ratio Lower Upper
117 100
119 6.1 78.8 118.2#
121 0.0 24.2 36.2#

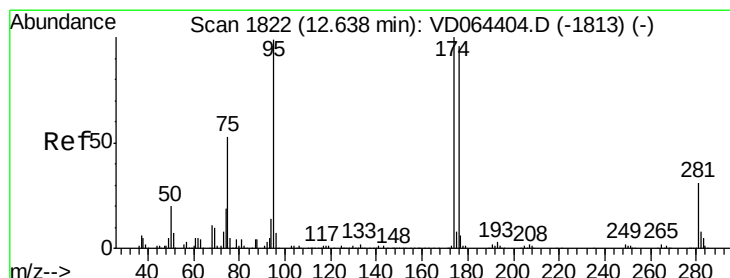
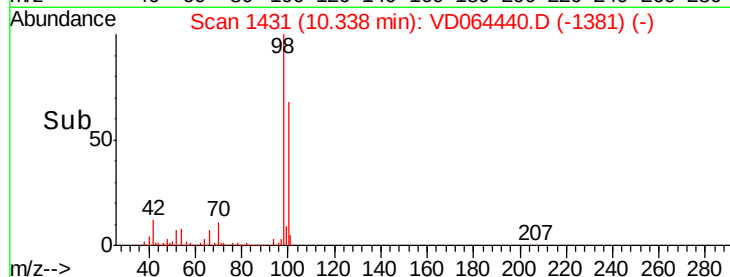
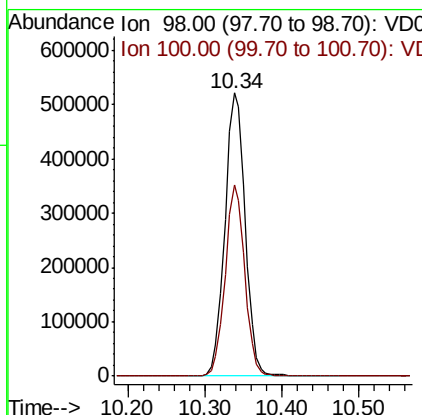
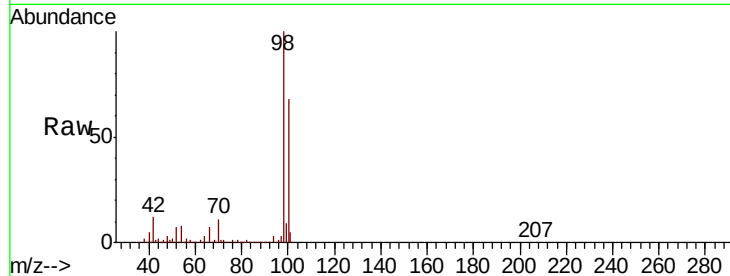




#50
Toluene-d8
Concen: 47.746 ug/l
RT: 10.34 min Scan# 1431
Delta R.T. -0.01 min
Lab File: VD064440.D
Acq: 05 Dec 2019 17:02

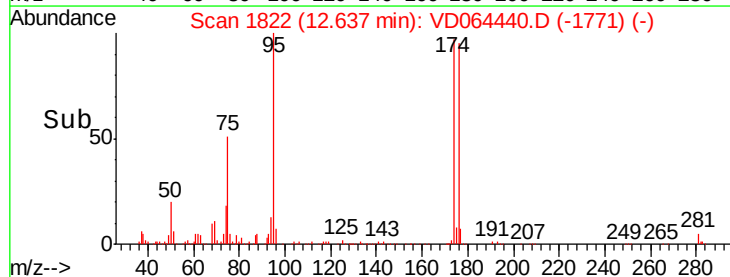
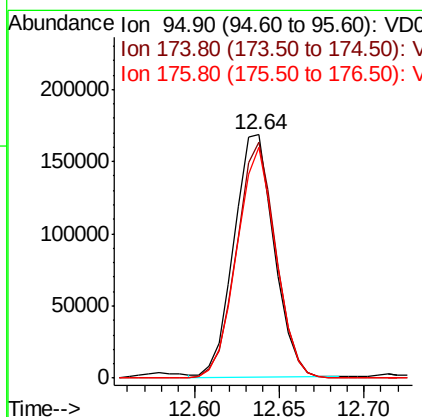
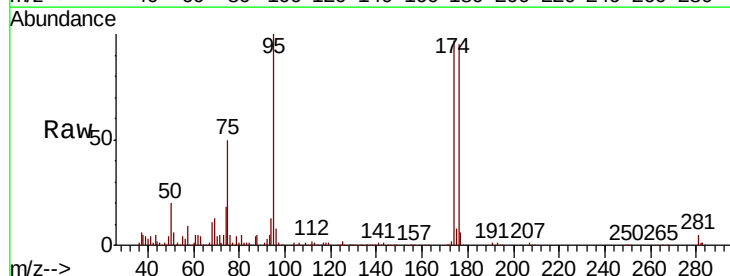
Instrument :
MSVOA_D
ClientSampleId :
BOX-2512

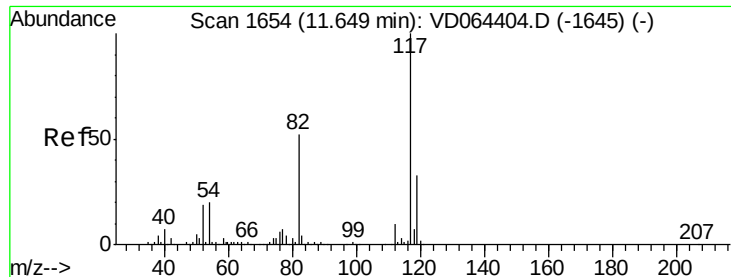
Tot Ion: 98 Resp: 956944
Ion Ratio Lower Upper
98 100
100 65.1 52.6 79.0



#62
4-Bromofluorobenzene
Concen: 43.272 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. -0.00 min
Lab File: VD064440.D
Acq: 05 Dec 2019 17:02

Tgt Ion: 95 Resp: 278721
Ion Ratio Lower Upper
95 100
174 95.1 0.0 197.2
176 92.4 0.0 189.6

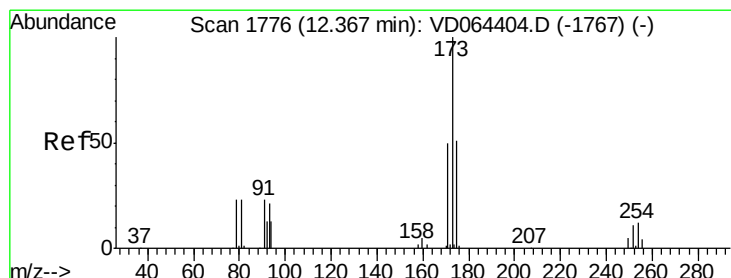
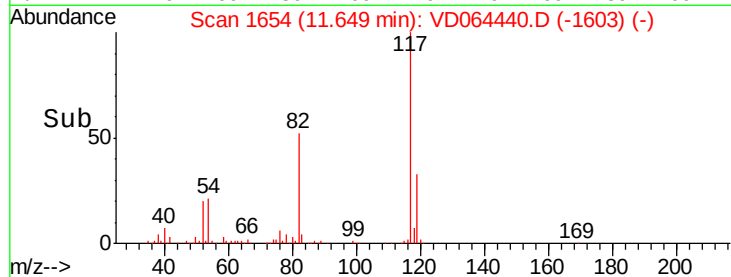
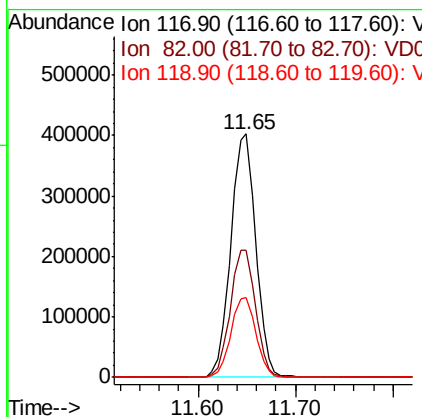
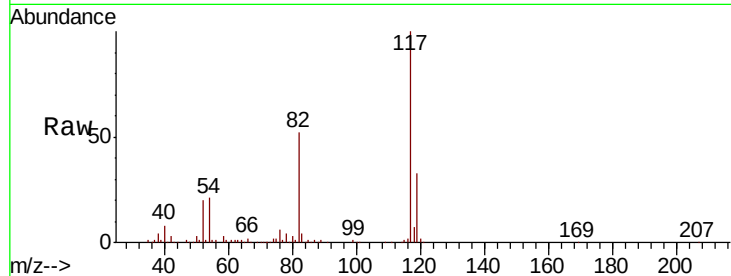




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. -0.00 min
Lab File: VD064440.D
Acq: 05 Dec 2019 17:02

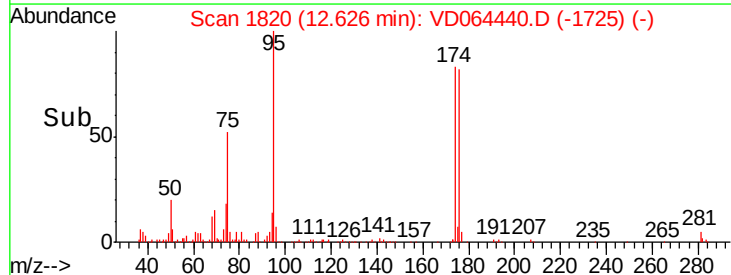
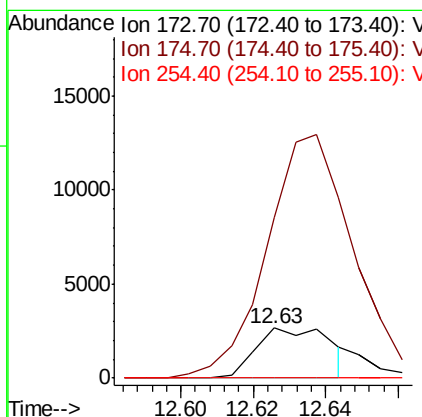
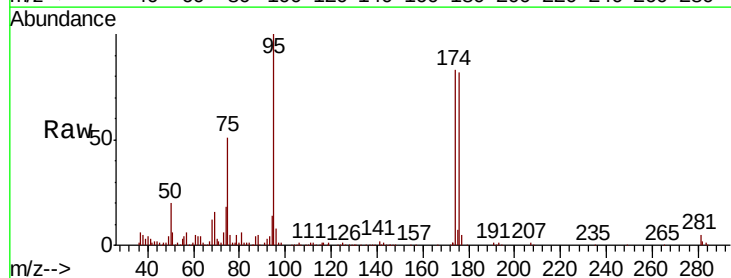
Instrument :
MSVOA_D
ClientSampleId :
BOX-2512

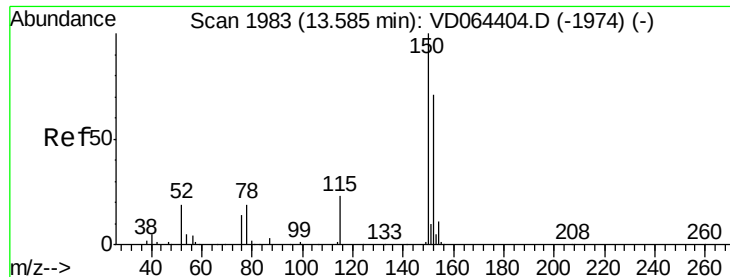
Tot Ion:117 Resp: 716428
Ion Ratio Lower Upper
117 100
82 52.3 41.4 62.2
119 32.6 26.2 39.2



#71
Bromoform
Concen: 1.147 ug/l
RT: 12.63 min Scan# 1820
Delta R.T. 0.26 min
Lab File: VD064440.D
Acq: 05 Dec 2019 17:02

Tgt Ion:173 Resp: 3797
Ion Ratio Lower Upper
173 100
175 466.1 25.3 75.8#
254 0.0 0.0 0.0



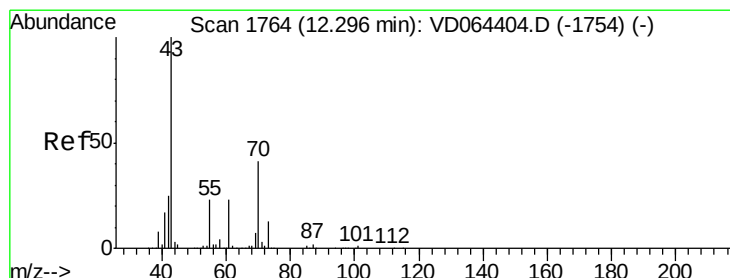
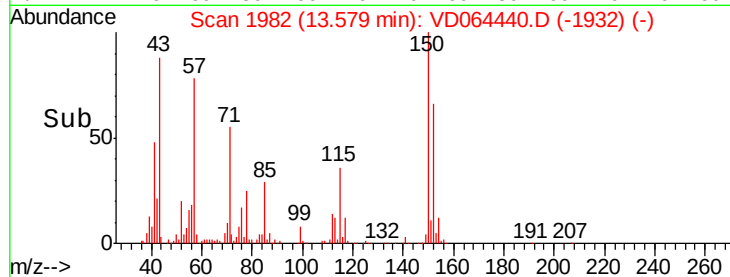
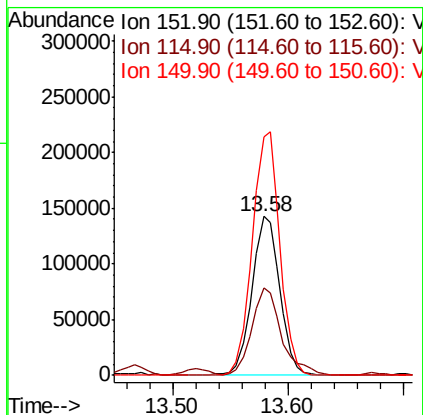
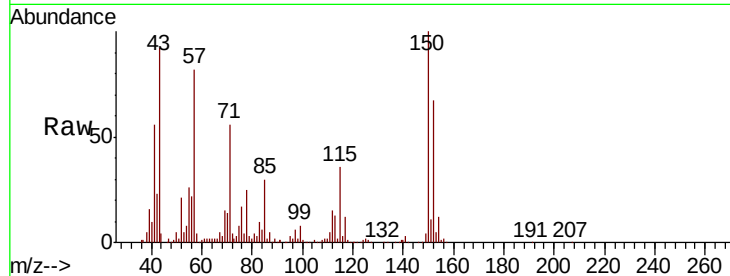


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1982
Delta R.T. -0.01 min
Lab File: VD064440.D
Acq: 05 Dec 2019 17:02

Instrument :
MSVOA_D
ClientSampleId :
BOX-2512

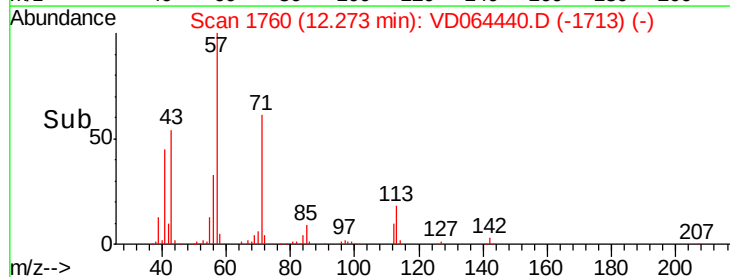
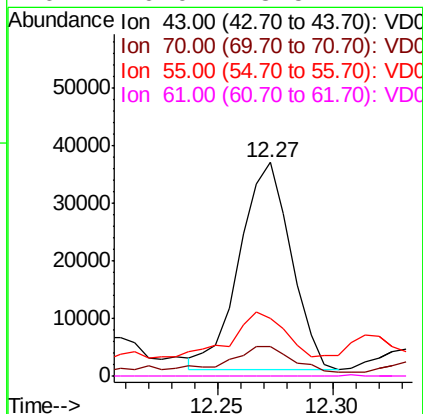
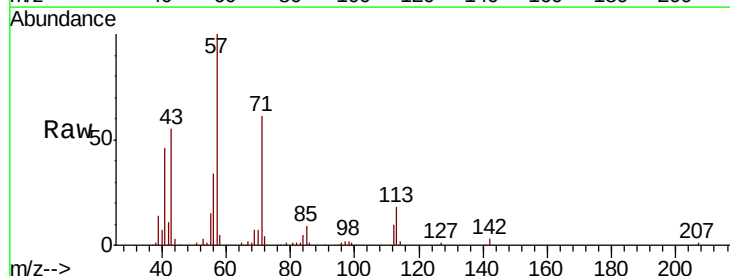
Tot Ion	Ratio	Lower	Upper
152	100		
115	58.8	26.7	80.1
150	151.1	0.0	347.2

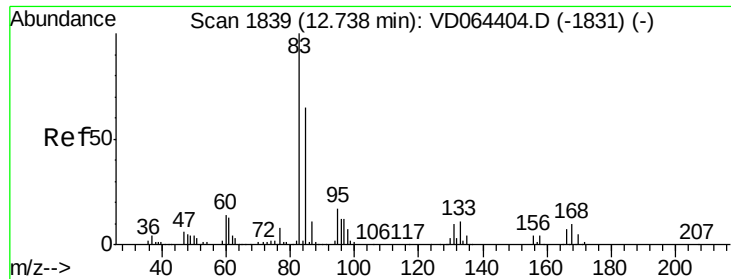


#74

N-ethyl acetate
Concen: 14.183 ug/l
RT: 12.27 min Scan# 1760
Delta R.T. -0.02 min
Lab File: VD064440.D
Acq: 05 Dec 2019 17:02

Tgt Ion	Ratio	Lower	Upper
43	100		
70	15.1	33.4	50.2#
55	21.5	18.9	28.3
61	0.0	18.5	27.7#





#75

1,1,2,2-Tetrachloroethane

Concen: 5.897 ug/l

RT: 12.80 min Scan# 1850

Delta R.T. 0.06 min

Lab File: VD064440.D

Acq: 05 Dec 2019 17:02

Instrument :

MSVOA_D

ClientSampleId :

BOX-2512

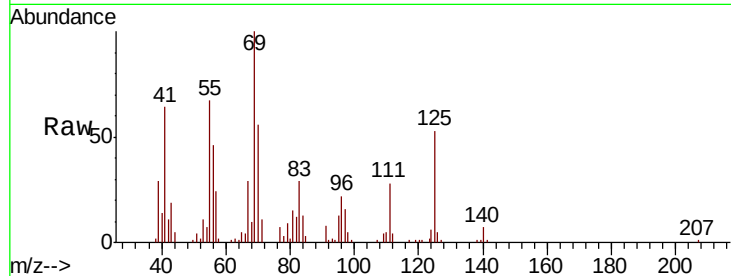
Tot Ion: 83 Resp: 16841

Ion Ratio Lower Upper

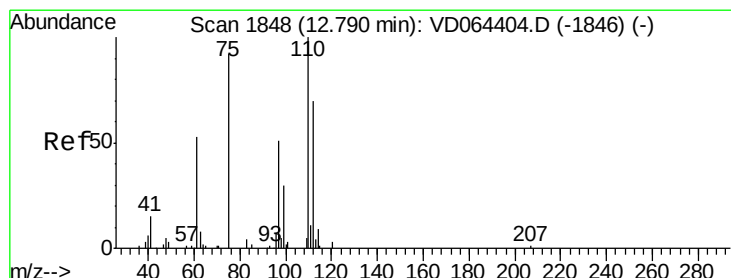
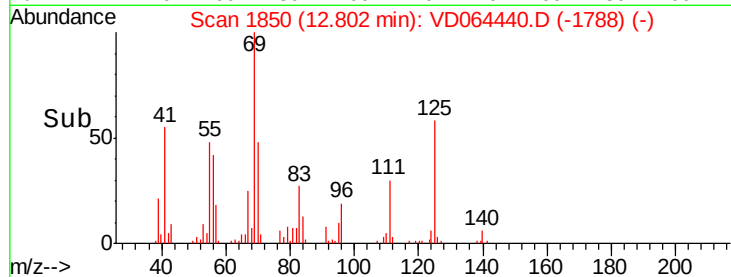
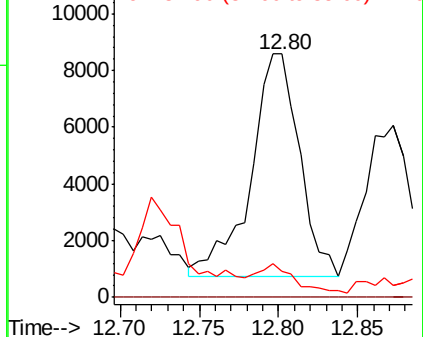
83 100

131 0.0 5.7 17.0#

85 0.0 31.3 93.9#



Abundance Ion 82.90 (82.60 to 83.60): VDC
Ion 130.80 (130.50 to 131.50): VDC
Ion 84.90 (84.60 to 85.60): VDC



#76

1,2,3-Trichloropropane

Concen: 72.494 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.16 min

Lab File: VD064440.D

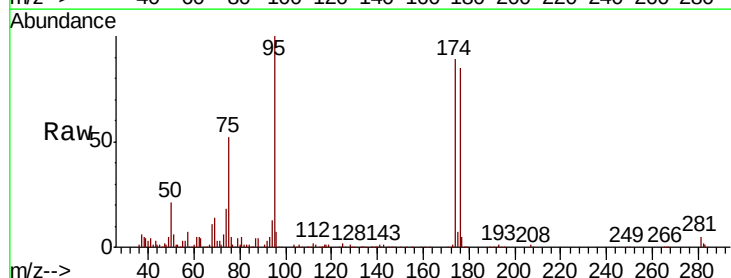
Acq: 05 Dec 2019 17:02

Tgt Ion: 75 Resp: 143161

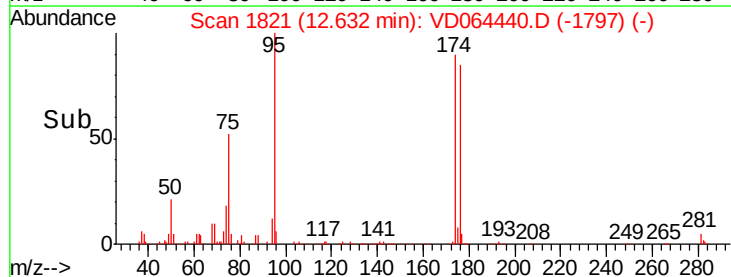
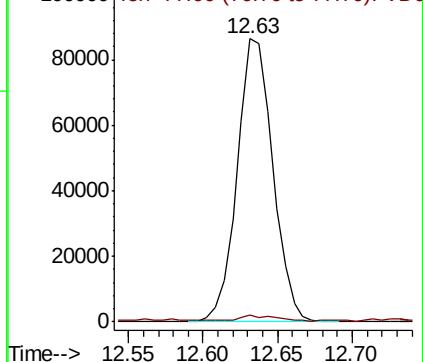
Ion Ratio Lower Upper

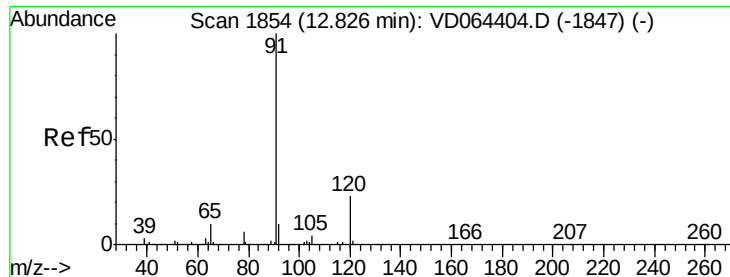
75 100

77 2.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VDC
Ion 77.00 (76.70 to 77.70): VDC





#78

n-propylbenzene

Concen: 1.076 ug/l

RT: 12.83 min Scan# 1854

Delta R.T. -0.00 min

Lab File: VD064440.D

Acq: 05 Dec 2019 17:02

Instrument :

MSVOA_D

ClientSampleId :

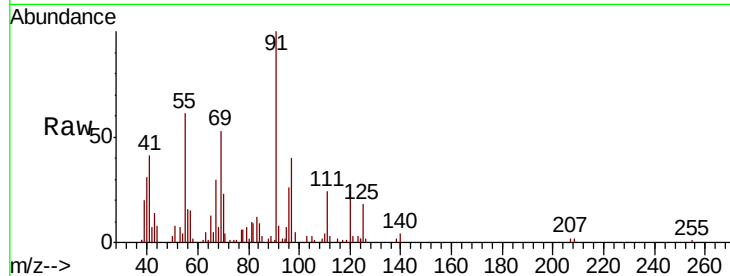
BOX-2512

Tot Ion: 91 Resp: 21441

Ion Ratio Lower Upper

91 100

120 21.3 11.9 35.9



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.00 (119.70 to 120.70): V

15000

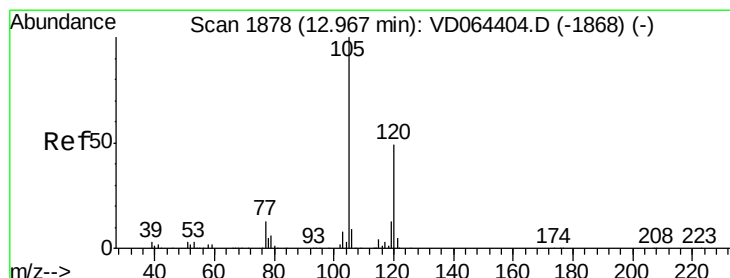
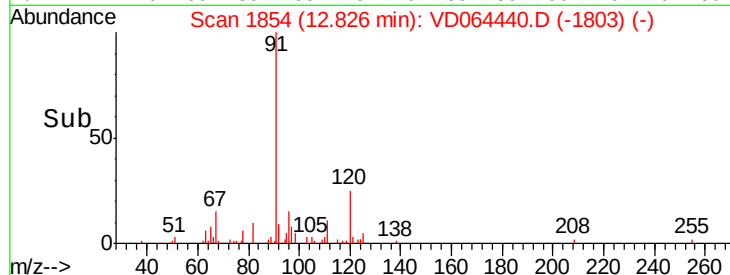
12000

5000

0

12.75 12.80 12.85

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 6.636 ug/l

RT: 12.96 min Scan# 1877

Delta R.T. -0.01 min

Lab File: VD064440.D

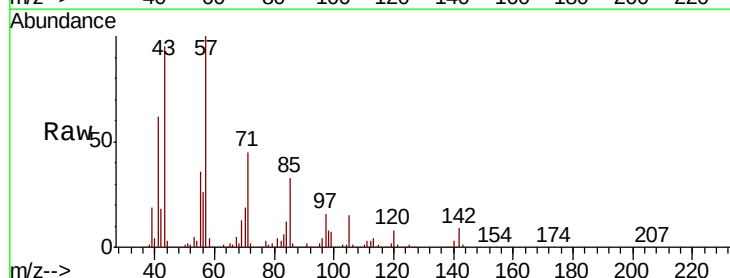
Acq: 05 Dec 2019 17:02

Tgt Ion: 105 Resp: 93661

Ion Ratio Lower Upper

105 100

120 51.8 25.1 75.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

60000

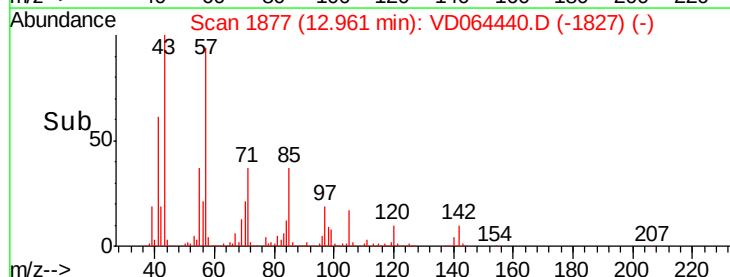
40000

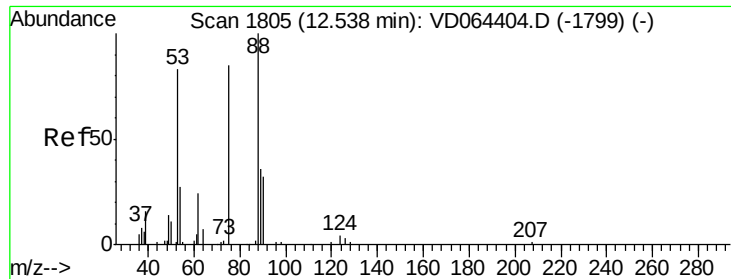
20000

0

12.90 12.95 13.00 13.05

Time-->

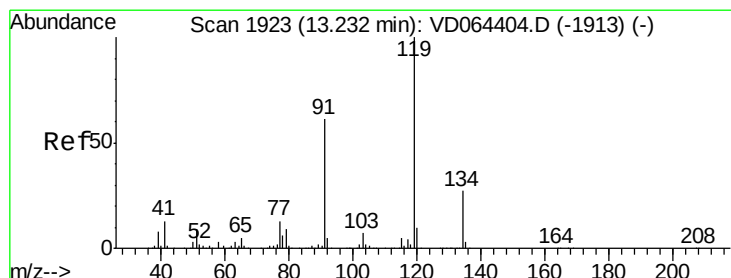
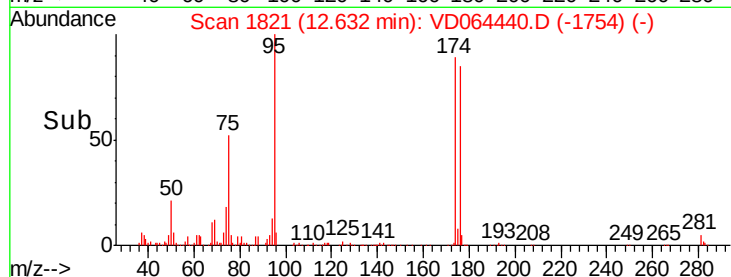
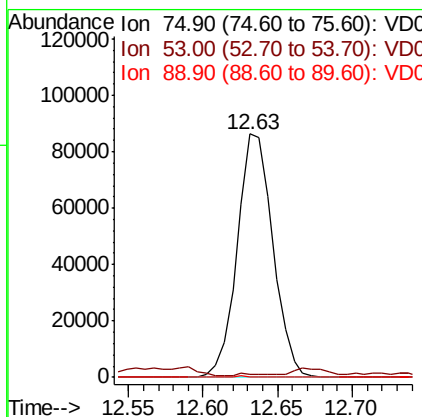
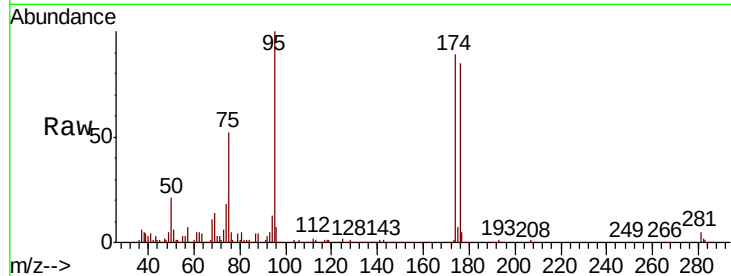




#81
trans-1,4-Dichloro-2-butene
Concen: 158.075 ug/l
RT: 12.63 min Scan# 1821
Delta R.T. 0.09 min
Lab File: VD064440.D
Acq: 05 Dec 2019 17:02

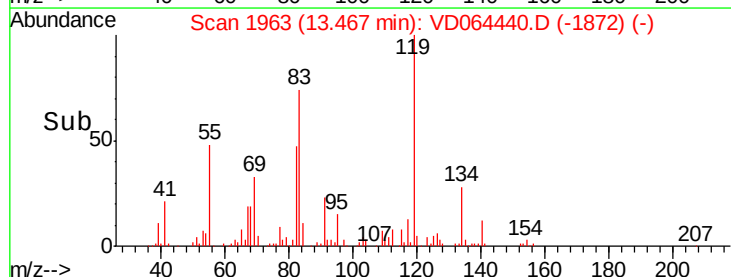
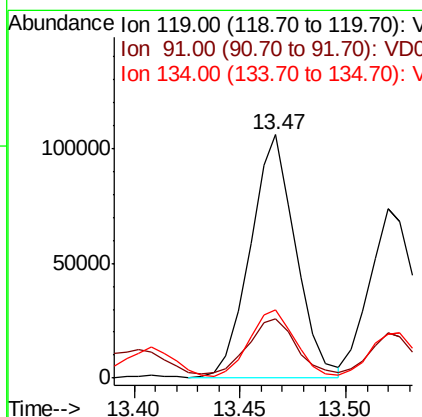
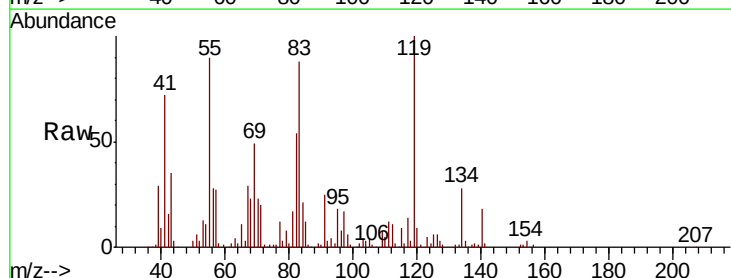
Instrument :
MSVOA_D
ClientSampleId :
BOX-2512

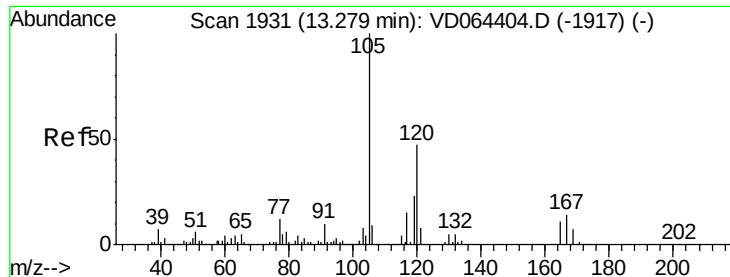
Tot Ion: 75 Resp: 143161
Ion Ratio Lower Upper
75 100
53 0.6 81.0 121.6#
89 0.1 38.5 57.7#



#83
tert-Butylbenzene
Concen: 12.782 ug/l
RT: 13.47 min Scan# 1963
Delta R.T. 0.24 min
Lab File: VD064440.D
Acq: 05 Dec 2019 17:02

Tgt Ion: 119 Resp: 156834
Ion Ratio Lower Upper
119 100
91 23.6 31.2 93.6#
134 27.0 13.9 41.7





#84

1,2,4-Trimethylbenzene

Concen: 1.210 ug/l

RT: 13.27 min Scan# 1930

Delta R.T. -0.01 min

Lab File: VD064440.D

Acq: 05 Dec 2019 17:02

Instrument :

MSVOA_D

ClientSampleId :

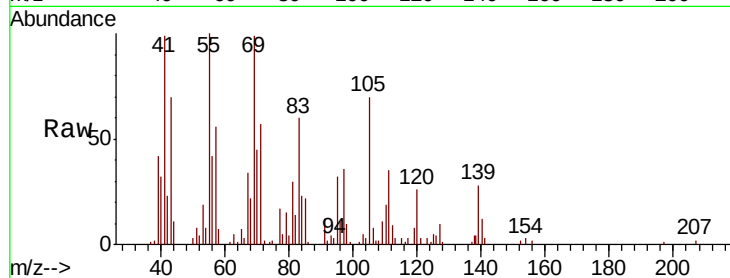
BOX-2512

Tot Ion:105 Resp: 17174

Ion Ratio Lower Upper

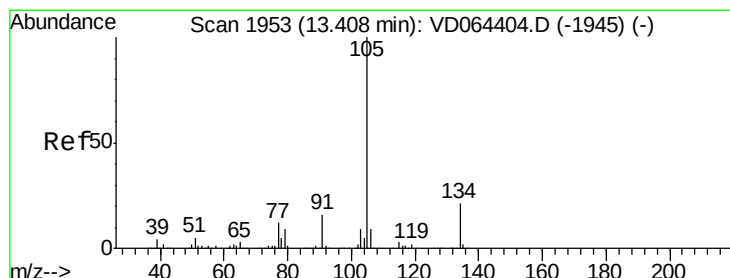
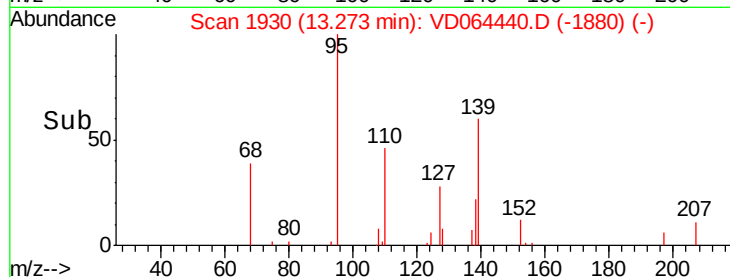
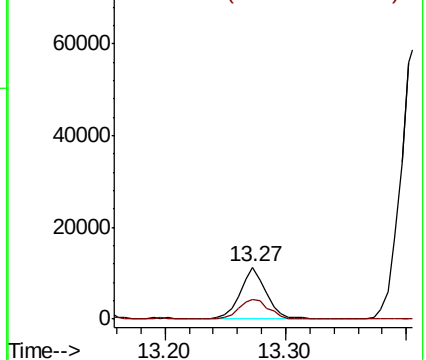
105 100

120 42.7 23.6 70.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#85

sec-Butylbenzene

Concen: 5.705 ug/l

RT: 13.41 min Scan# 1953

Delta R.T. -0.00 min

Lab File: VD064440.D

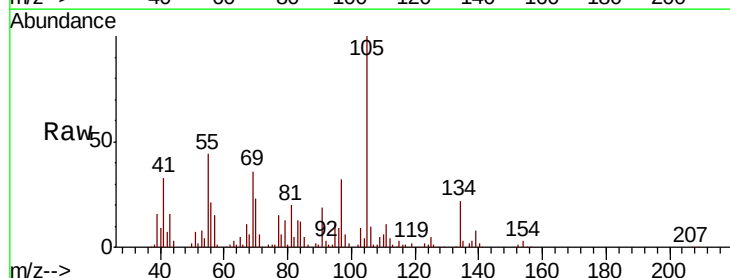
Acq: 05 Dec 2019 17:02

Tgt Ion:105 Resp: 96082

Ion Ratio Lower Upper

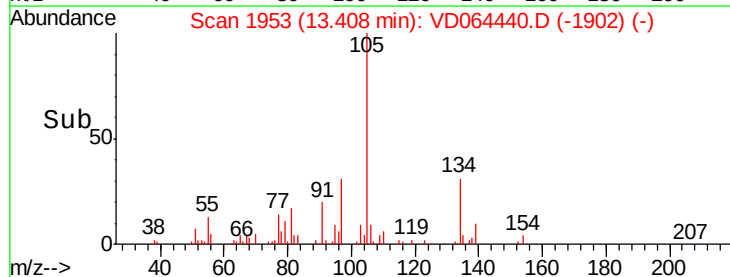
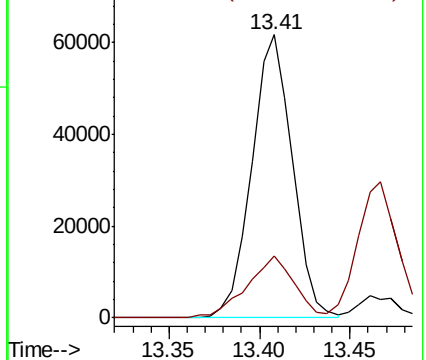
105 100

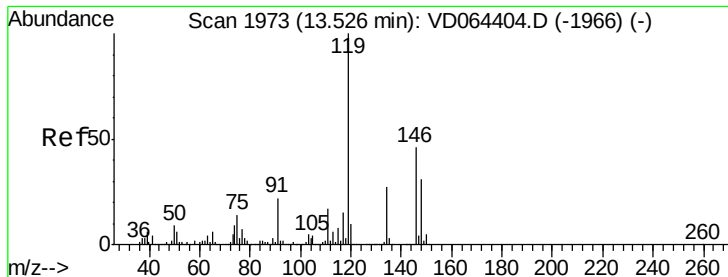
134 25.6 10.5 31.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

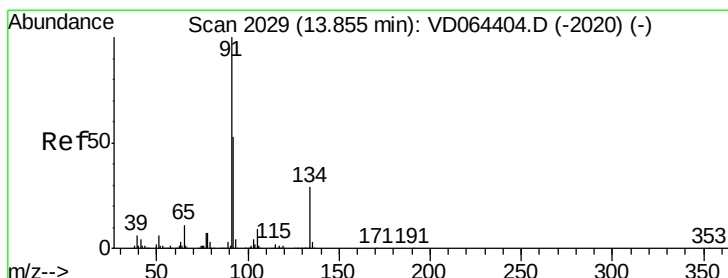
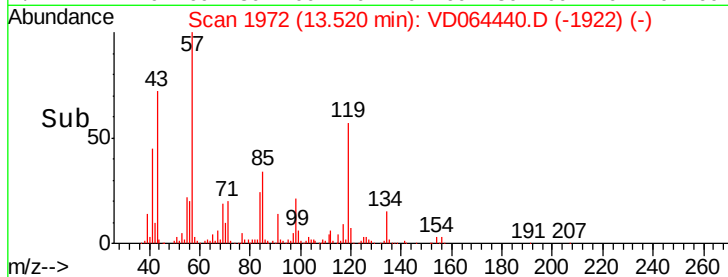
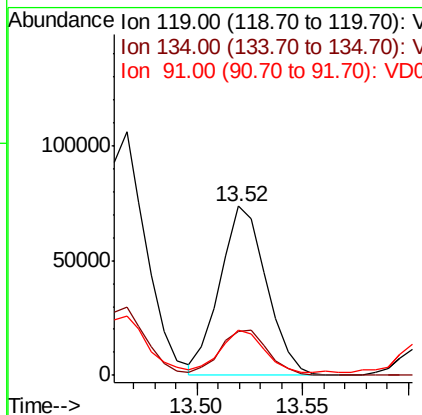
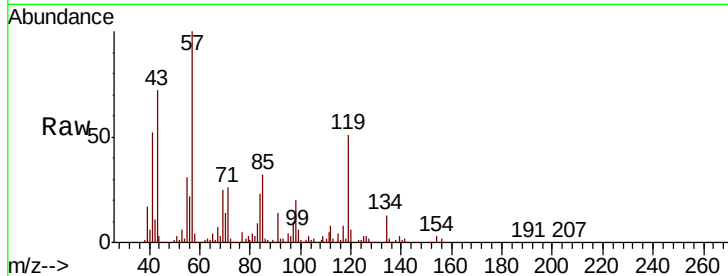




#86
 p-Isopropyltoluene
 Concen: 7.103 ug/l
 RT: 13.52 min Scan# 1972
 Delta R.T. -0.01 min
 Lab File: VD064440.D
 Acq: 05 Dec 2019 17:02

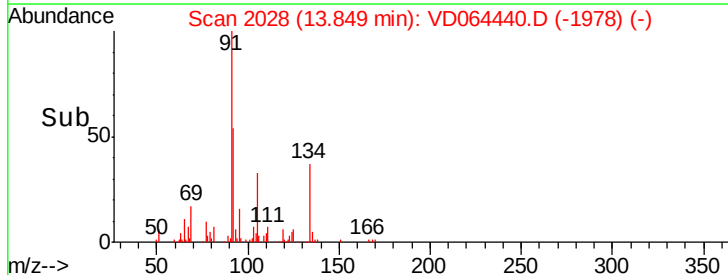
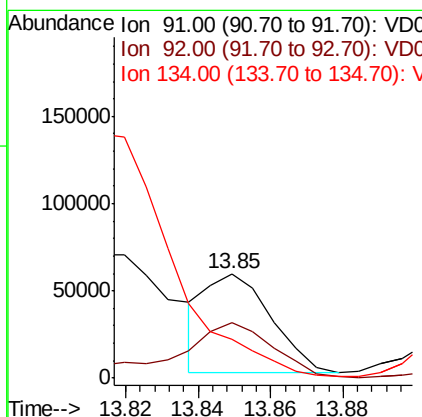
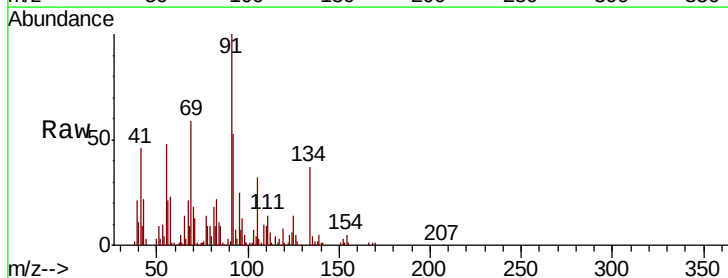
Instrument :
 MSVOA_D
 ClientSampleId :
 BOX-2512

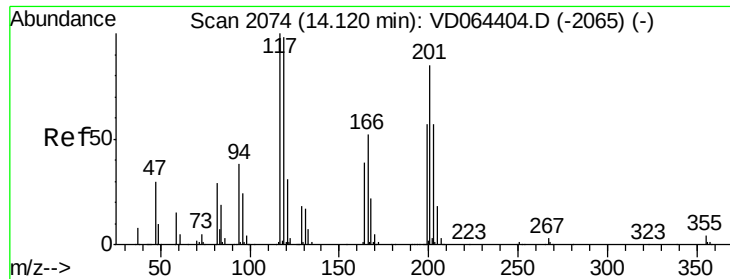
Tot Ion	Ratio	Lower	Upper
119	100		
134	27.6	13.5	40.4
91	23.3	11.2	33.5



#89
 n-Butylbenzene
 Concen: 4.896 ug/l
 RT: 13.85 min Scan# 2028
 Delta R.T. -0.01 min
 Lab File: VD064440.D
 Acq: 05 Dec 2019 17:02

Tgt Ion	Ratio	Lower	Upper
91	100		
92	81.8	26.5	79.4#
134	0.0	13.9	41.7#





#90

Hexachloroethane

Concen: 23.122 ug/l

RT: 14.13 min Scan# 2075

Delta R.T. 0.01 min

Lab File: VD064440.D

Acq: 05 Dec 2019 17:02

Instrument :

MSVOA_D

ClientSampleId :

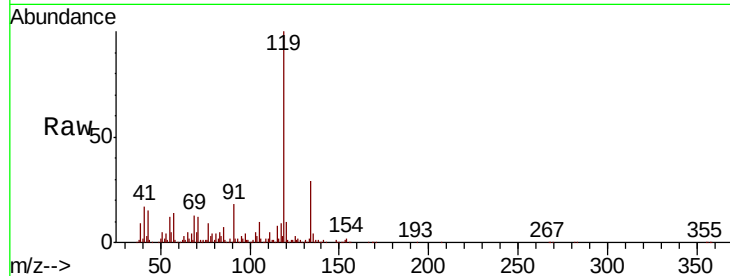
BOX-2512

Tot Ion:117 Resp: 68758

Ion Ratio Lower Upper

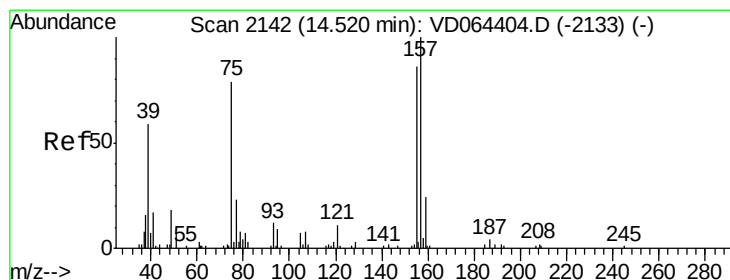
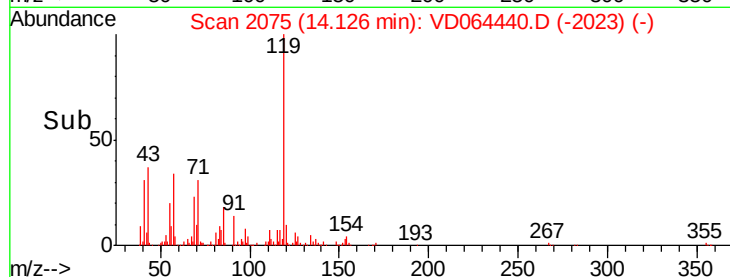
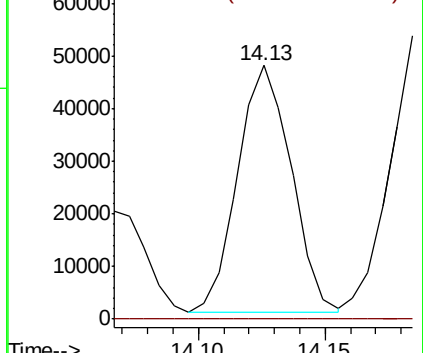
117 100

201 0.0 44.3 132.8#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 10.112 ug/l

RT: 14.53 min Scan# 2144

Delta R.T. 0.01 min

Lab File: VD064440.D

Acq: 05 Dec 2019 17:02

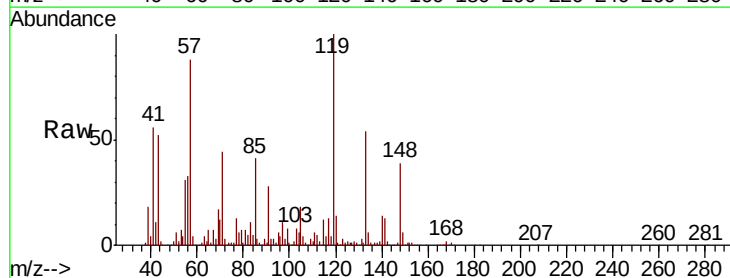
Tgt Ion: 75 Resp: 5807

Ion Ratio Lower Upper

75 100

155 57.0 51.9 155.7

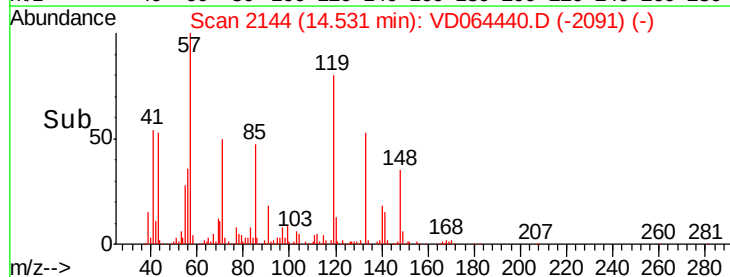
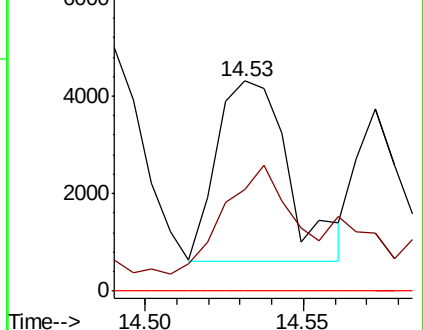
157 0.0 63.2 189.8#

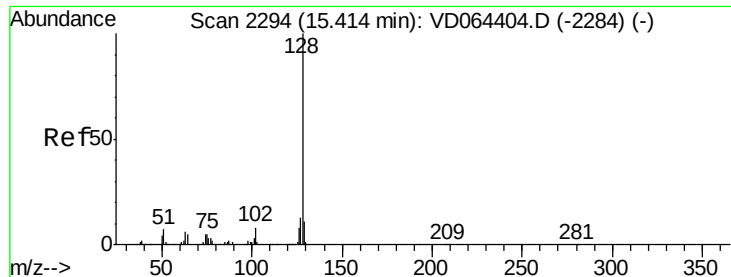


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V





#95

Naphthalene

Concen: 7.872 ug/l

RT: 15.38 min Scan# 2288

Delta R.T. -0.04 min

Lab File: VD064440.D

Acq: 05 Dec 2019 17:02

Instrument :

MSVOA_D

ClientSampleId :

BOX-2512

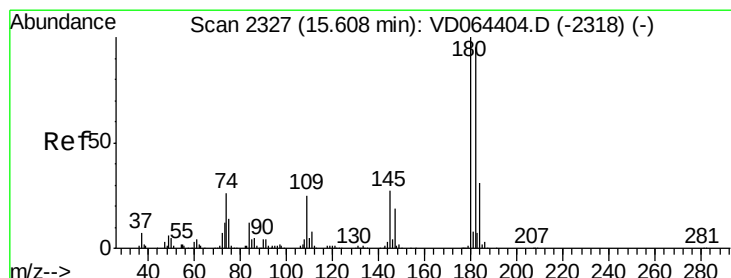
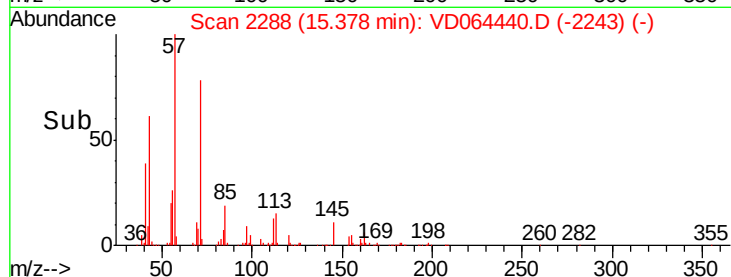
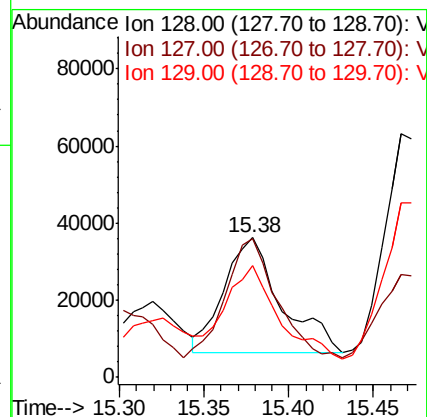
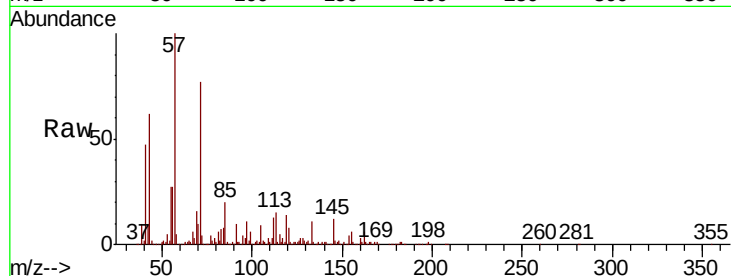
Tot Ion:128 Resp: 69605

Ion Ratio Lower Upper

128 100

127 92.9 10.5 15.7#

129 73.6 8.8 13.2#



#96

1,2,3-Trichlorobenzene

Concen: 3.019 ug/l

RT: 15.63 min Scan# 2330

Delta R.T. 0.02 min

Lab File: VD064440.D

Acq: 05 Dec 2019 17:02

Tgt Ion:180 Resp: 13654

Ion Ratio Lower Upper

180 100

182 0.0 47.6 142.9#

145 3272.2 14.6 43.8#

