

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD081920\
 Data File : VD066325.D
 Acq On : 19 Aug 2020 18:13
 Operator : VA/SY
 Sample : L3712-14
 Misc : 6.84G/5.00ml/MSVOA D/SOIL
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 CHRT-26982

Quant Time: Aug 20 07:18:08 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D080520S.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 05 13:49:25 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.97	168	119348	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.86	114	217905	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	117182	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	38872	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.33	65	83491	78.41	ug/l	0.00
Spiked Amount			Recovery	=	156.82%	
35) Dibromofluoromethane	7.91	113	78790	57.08	ug/l	0.00
Spiked Amount			Recovery	=	114.16%	
50) Toluene-d8	10.34	98	129187	25.36	ug/l	0.00
Spiked Amount			Recovery	=	50.72%	
62) 4-Bromofluorobenzene	12.63	95	46986	25.59	ug/l	0.00
Spiked Amount			Recovery	=	51.18%	

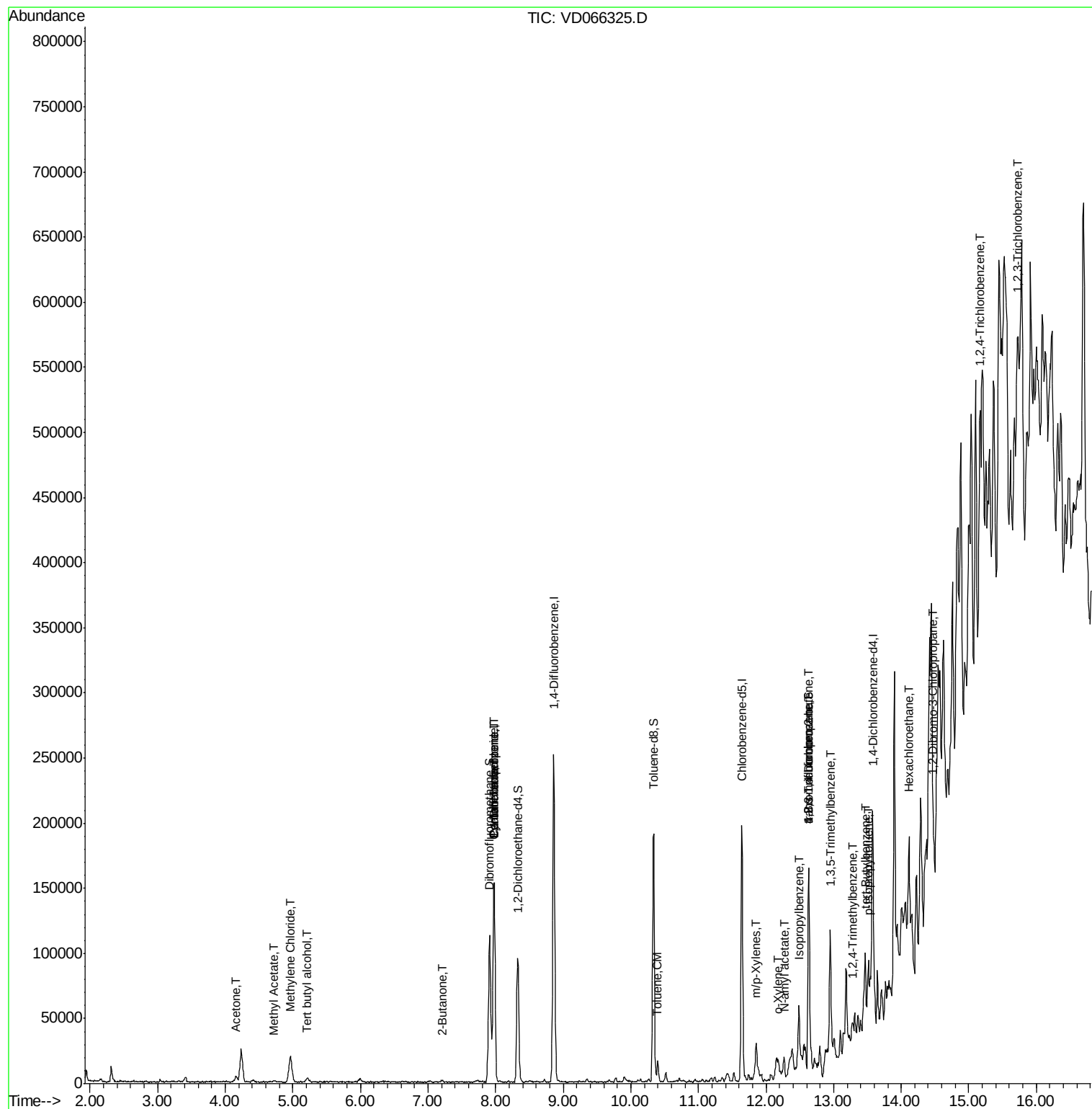
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	5.21	59	5197	32.283	ug/l #	90
16) Acetone	4.16	43	8015	39.672	ug/l	95
18) Methyl Acetate	4.71	43	1618	3.153	ug/l	91
20) Methylene Chloride	4.97	84	15299	9.398	ug/l #	80
25) 2-Butanone	7.21	43	456	1.535	ug/l #	80
31) Cyclohexane	7.97	56	2870	1.539	ug/l #	49
36) 1,1-Dichloropropene	7.97	75	8489	4.146	ug/l #	52
38) Carbon Tetrachloride	7.98	117	11567	5.066	ug/l #	10
52) Toluene	10.40	92	6560	1.755	ug/l	99
68) m/p-Xylenes	11.85	106	5621	3.519	ug/l	92
69) o-Xylene	12.18	106	2628	1.809	ug/l	91
73) Isopropylbenzene	12.48	105	2980	1.148	ug/l	77
74) N-amyl acetate	12.27	43	3523	6.166	ug/l #	76
76) 1,2,3-Trichloropropane	12.63	75	25063	77.316	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.96	105	4170	1.922	ug/l	85
81) trans-1,4-Dichloro-2-buten	12.63	75	25063	170.911	ug/l #	14
83) tert-Butylbenzene	13.46	119	2741	1.436	ug/l	98
84) 1,2,4-Trimethylbenzene	13.27	105	6921	3.187	ug/l	99
86) p-Isopropyltoluene	13.52	119	12386	5.125	ug/l	93
90) Hexachloroethane	14.11	117	1696	3.519	ug/l #	7
92) 1,2-Dibromo-3-Chloropropan	14.48	75	125	1.644	ug/l #	1
93) 1,2,4-Trichlorobenzene	15.17	180	915	1.118	ug/l #	1
96) 1,2,3-Trichlorobenzene	15.73	180	5879	8.140	ug/l	69

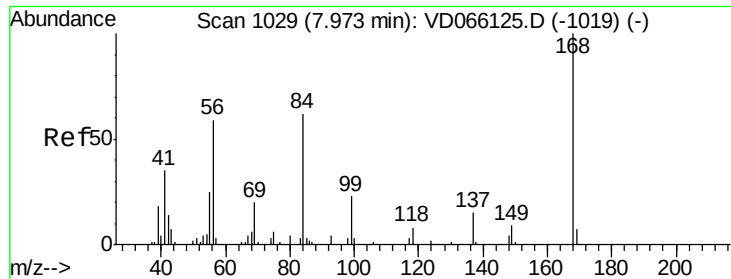
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Aug 05 13:49:25 2020
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.97 min Scan# 1029

Delta R.T. 0.00 min

Lab File: VD066325.D

Acq: 19 Aug 2020 18:13

Instrument :

MSVOA_D

ClientSampleId :

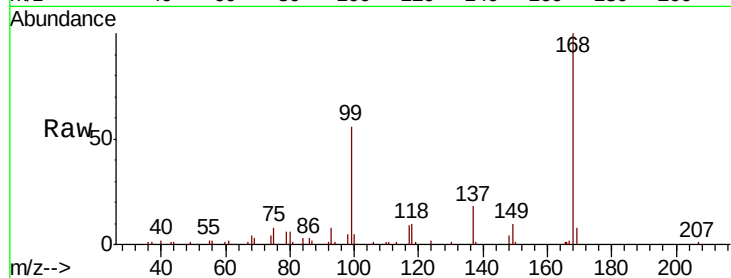
CHRT-26982

Tot Ion:168 Resp: 119348

Ion Ratio Lower Upper

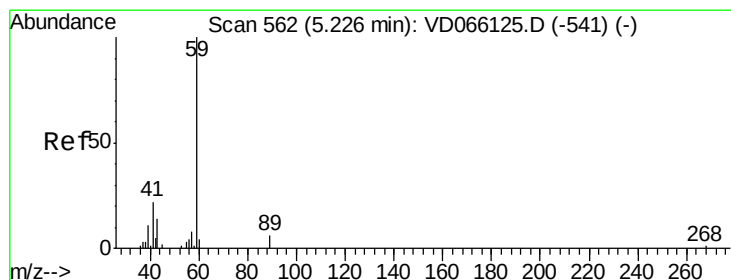
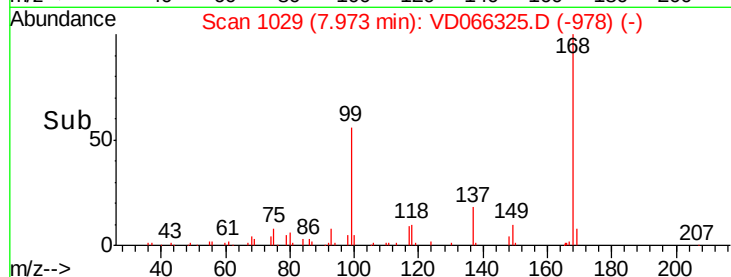
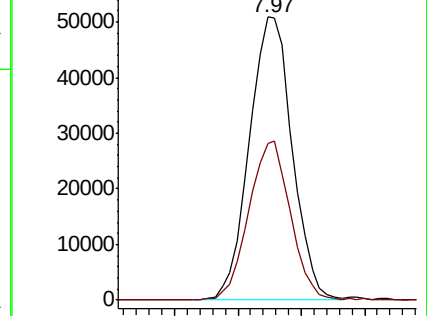
168 100

99 55.6 42.2 63.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#11

Tert butyl alcohol

Concen: 32.283 ug/l

RT: 5.21 min Scan# 560

Delta R.T. -0.01 min

Lab File: VD066325.D

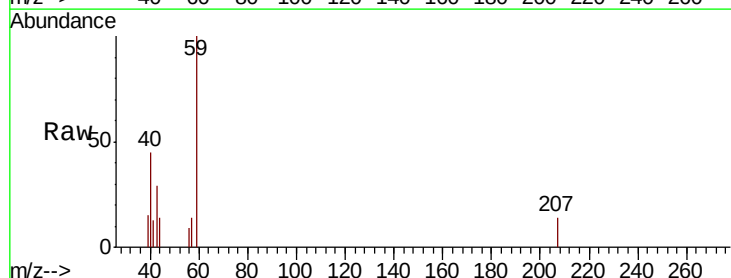
Acq: 19 Aug 2020 18:13

Tgt Ion: 59 Resp: 5197

Ion Ratio Lower Upper

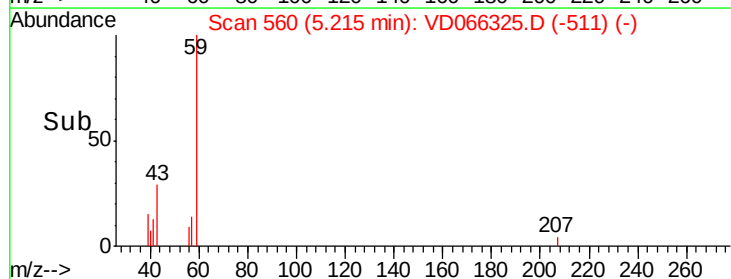
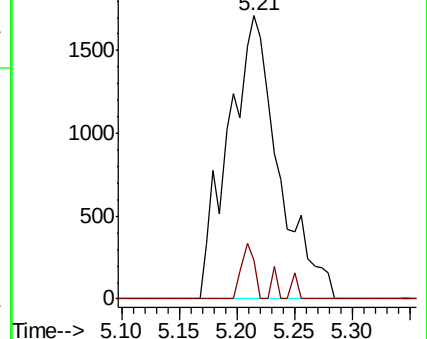
59 100

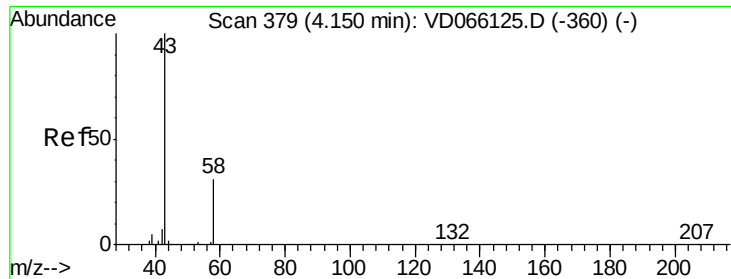
57 5.0 7.0 10.4#



Abundance Ion 59.00 (58.70 to 59.70): VDC

Ion 57.00 (56.70 to 57.70): VDC





#16

Acetone

Concen: 39.672 ug/l

RT: 4.16 min Scan# 380

Delta R.T. 0.01 min

Lab File: VD066325.D

Acq: 19 Aug 2020 18:13

Instrument :

MSVOA_D

ClientSampleId :

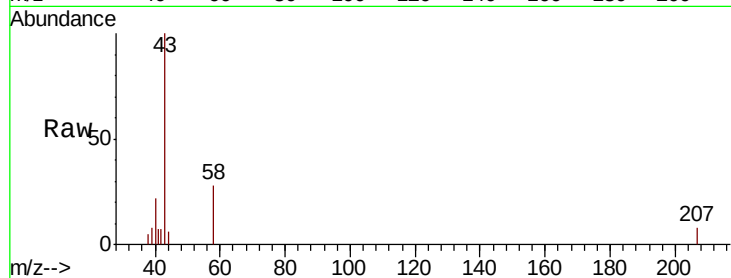
CHRT-26982

Tot Ion: 43 Resp: 8015

Ion Ratio Lower Upper

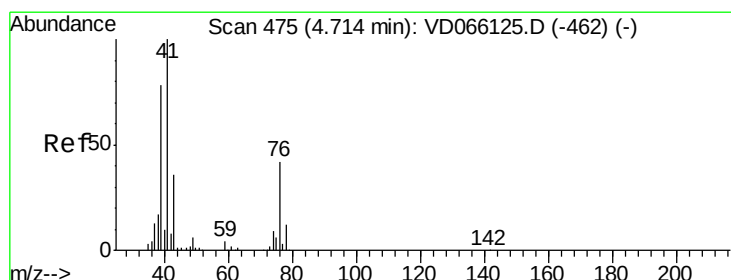
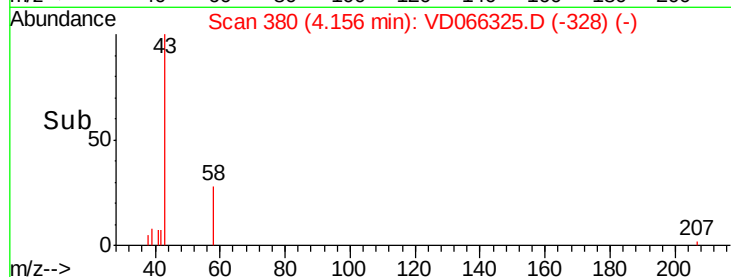
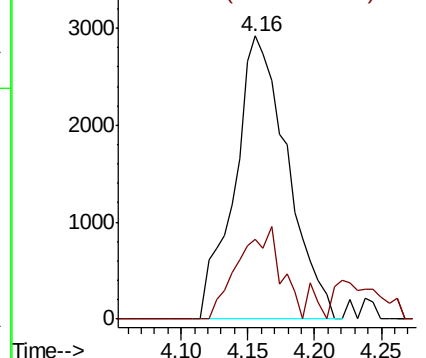
43 100

58 28.3 24.7 37.1



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#18

Methyl Acetate

Concen: 3.153 ug/l

RT: 4.71 min Scan# 475

Delta R.T. 0.00 min

Lab File: VD066325.D

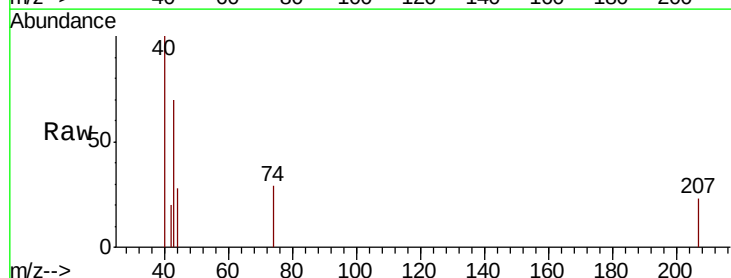
Acq: 19 Aug 2020 18:13

Tgt Ion: 43 Resp: 1618

Ion Ratio Lower Upper

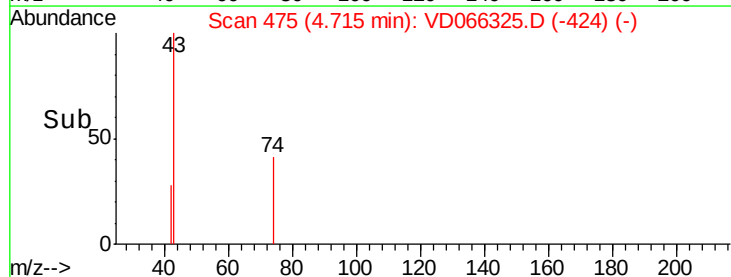
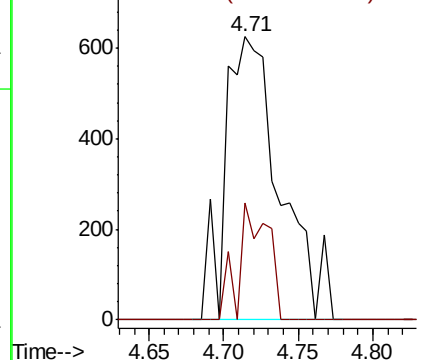
43 100

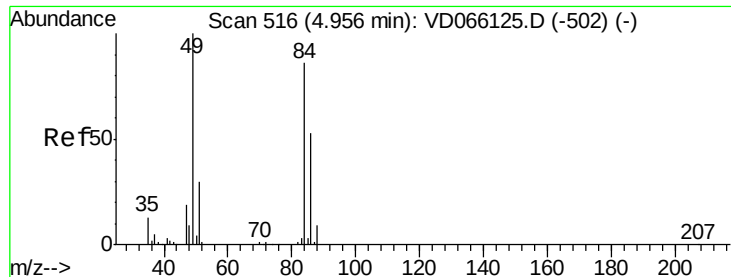
74 21.9 21.2 31.8



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 74.00 (73.70 to 74.70): VDC

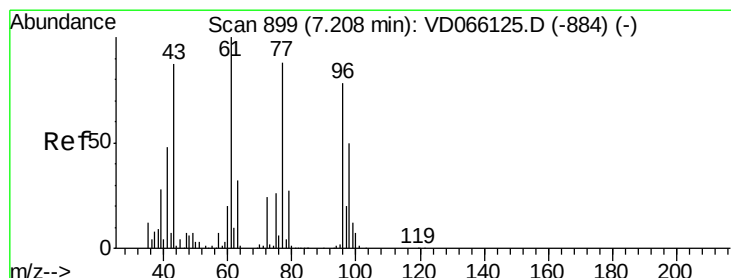
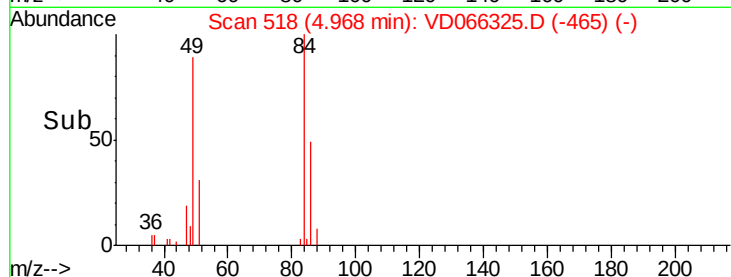
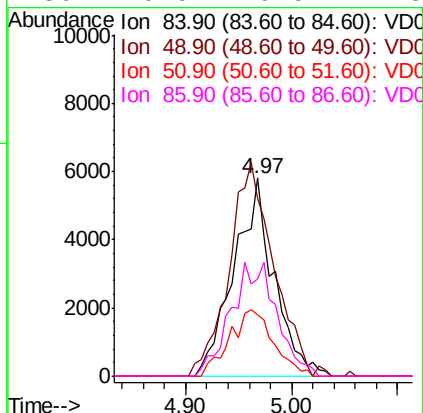
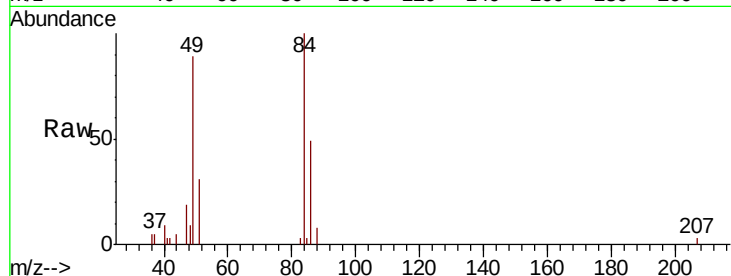




#20
Methvlene Chloride
Concen: 9.398 ug/l
RT: 4.97 min Scan# 518
Delta R.T. 0.01 min
Lab File: VD066325.D
Acq: 19 Aug 2020 18:13

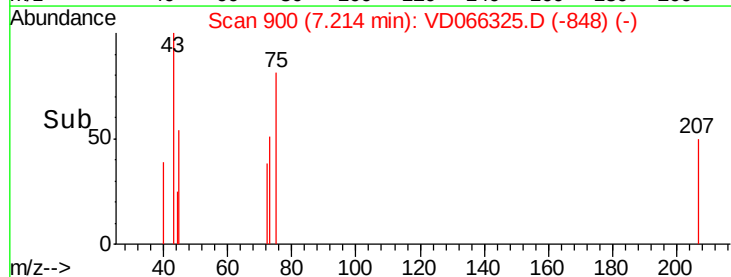
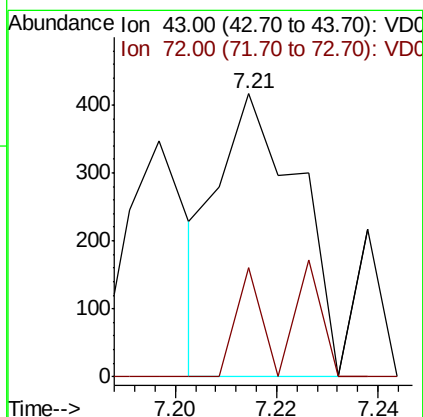
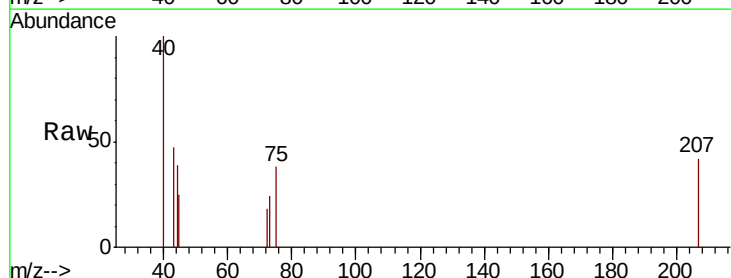
Instrument :
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CHRT-26982

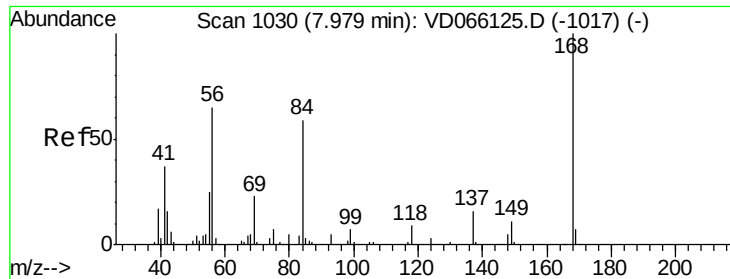
Tot Ion: 84 Resp: 15299
Ion Ratio Lower Upper
84 100
49 89.4 93.5 140.3#
51 31.1 28.2 42.4
86 49.0 49.5 74.3#



#25
2-Butanone
Concen: 1.535 ug/l
RT: 7.21 min Scan# 900
Delta R.T. 0.01 min
Lab File: VD066325.D
Acq: 19 Aug 2020 18:13

Tgt Ion: 43 Resp: 456
Ion Ratio Lower Upper
43 100
72 38.4 22.2 33.2#

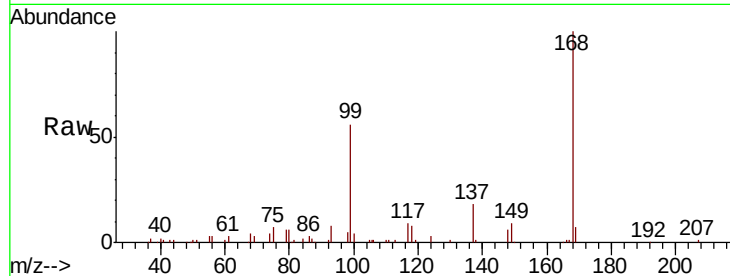




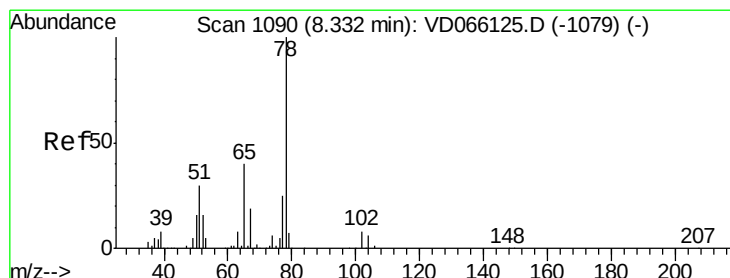
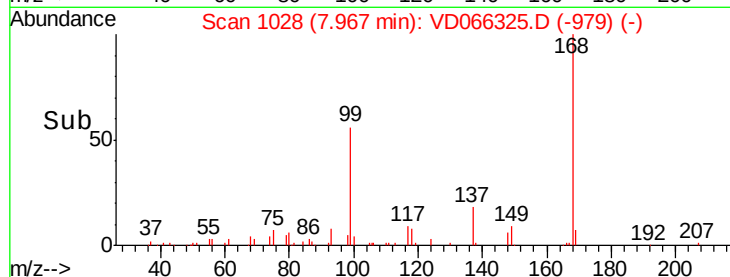
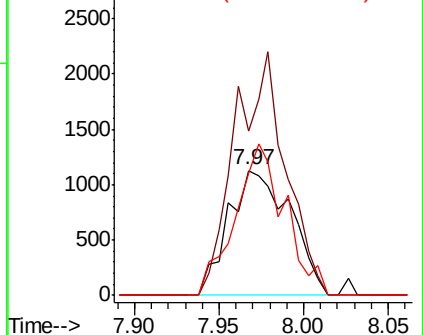
#31
Cyclohexane
Concen: 1.539 ug/l
RT: 7.97 min Scan# 1028
Delta R.T. -0.01 min
Lab File: VD066325.D
Acq: 19 Aug 2020 18:13

Instrument :
MSVOA_D
ClientSampleId :
CHRT-26982

Tot Ion: 56 Resp: 2870
Ion Ratio Lower Upper
56 100
69 131.3 28.8 43.2#
84 97.7 73.0 109.6

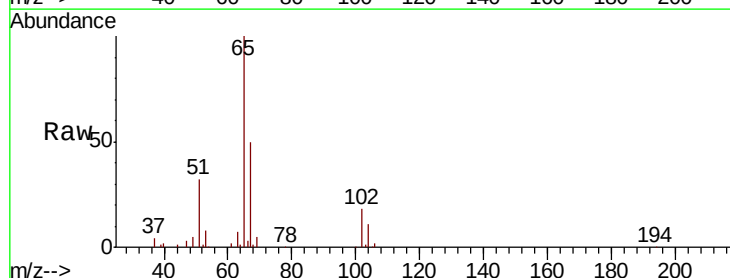


Abundance Ion 56.00 (55.70 to 56.70): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.00 (83.70 to 84.70): VDC

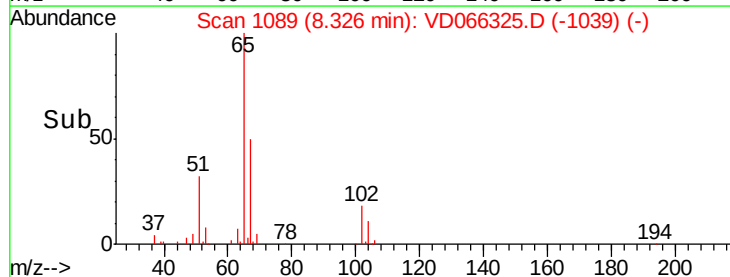
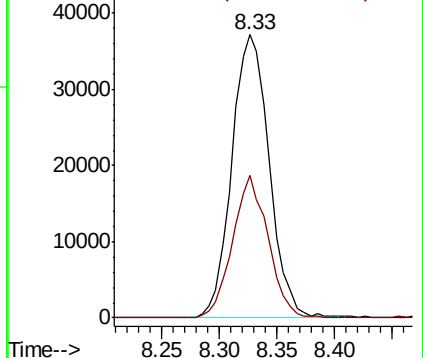


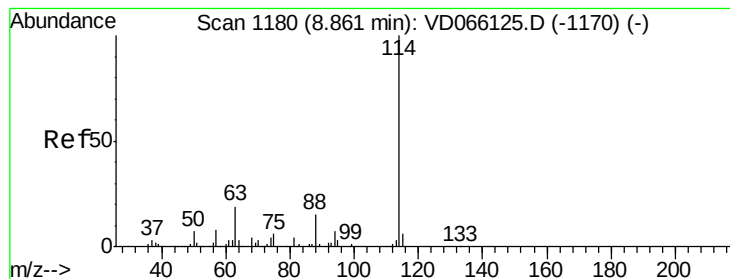
#33
1,2-Dichloroethane-d4
Concen: 78.413 ug/l
RT: 8.33 min Scan# 1089
Delta R.T. -0.01 min
Lab File: VD066325.D
Acq: 19 Aug 2020 18:13

Tgt Ion: 65 Resp: 83491
Ion Ratio Lower Upper
65 100
67 47.9 0.0 104.6



Abundance Ion 64.90 (64.60 to 65.60): VDC
Ion 66.90 (66.60 to 67.60): VDC





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.86 min Scan# 1180

Delta R.T. 0.00 min

Lab File: VD066325.D

Acq: 19 Aug 2020 18:13

Instrument :

MSVOA_D

ClientSampleId :

CHRT-26982

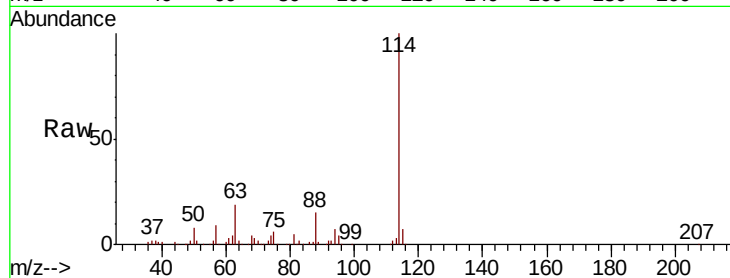
Tot Ion:114 Resp: 217905

Ion Ratio Lower Upper

114 100

63 19.2 0.0 38.6

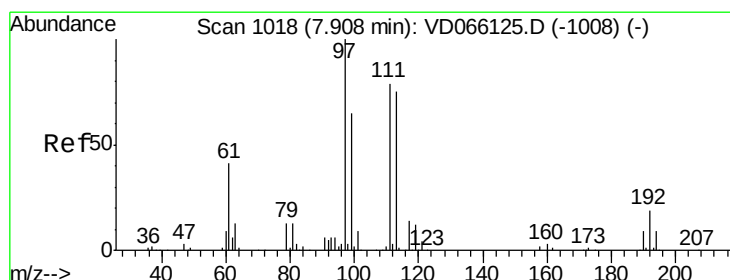
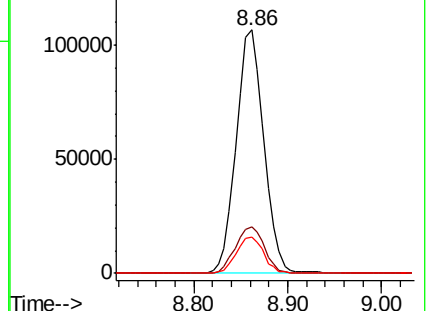
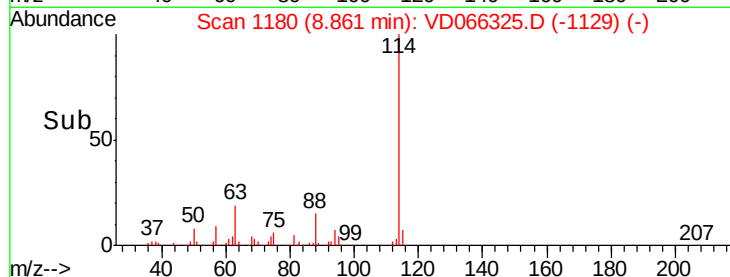
88 15.0 0.0 30.0



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): V

Ion 87.90 (87.60 to 88.60): V



#35

Dibromofluoromethane

Concen: 57.077 ug/l

RT: 7.91 min Scan# 1018

Delta R.T. 0.00 min

Lab File: VD066325.D

Acq: 19 Aug 2020 18:13

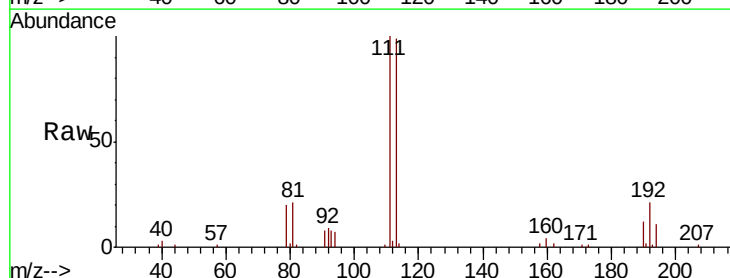
Tgt Ion:113 Resp: 78790

Ion Ratio Lower Upper

113 100

111 101.9 80.7 121.1

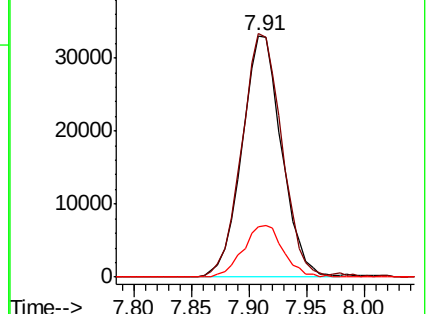
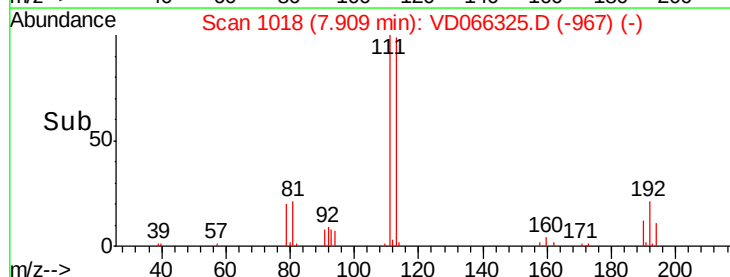
192 21.6 18.4 27.6

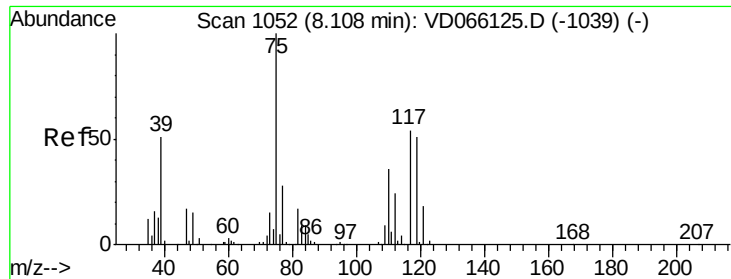


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.146 ug/l

RT: 7.97 min Scan# 1029

Delta R.T. -0.14 min

Lab File: VD066325.D

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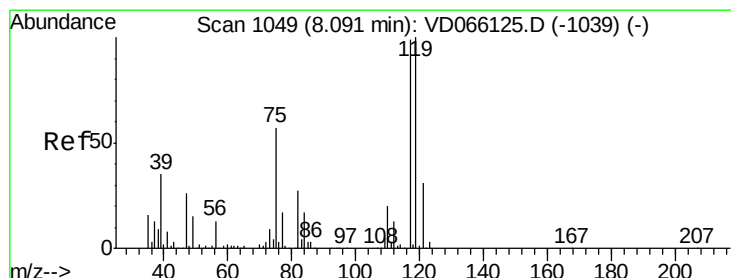
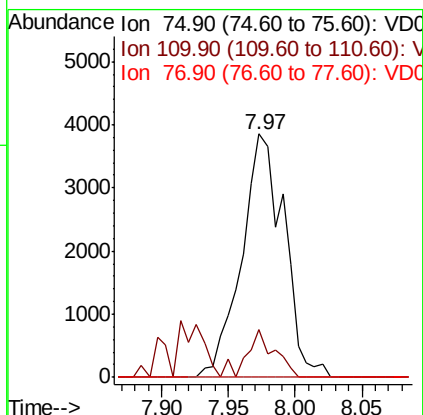
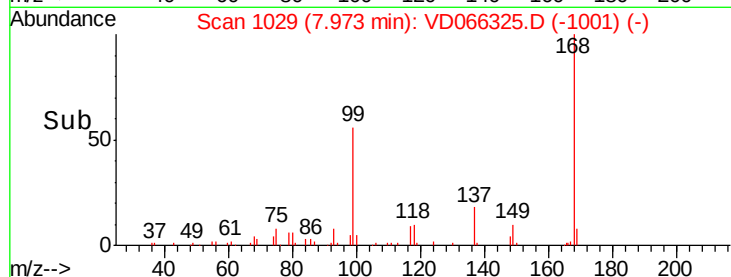
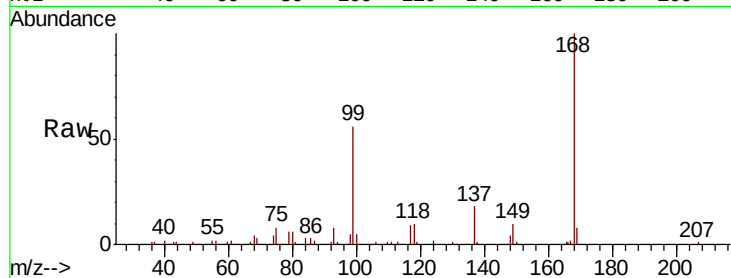
Tot Ion: 75 Resp: 8489

Ion Ratio Lower Upper

75 100

110 12.7 18.8 56.3#

77 0.0 24.2 36.2#



#38

Carbon Tetrachloride

Concen: 5.066 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.11 min

Lab File: VD066325.D

Acq: 19 Aug 2020 18:13

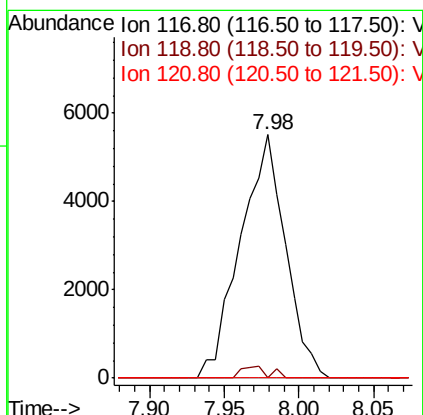
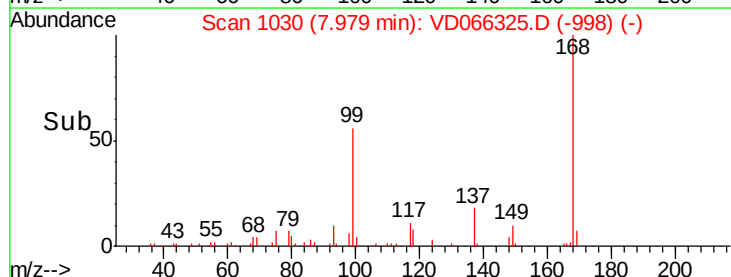
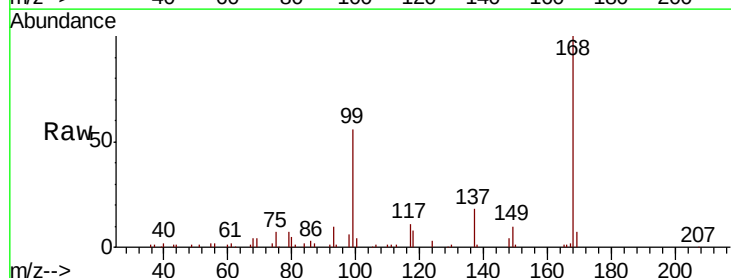
Tgt Ion: 117 Resp: 11567

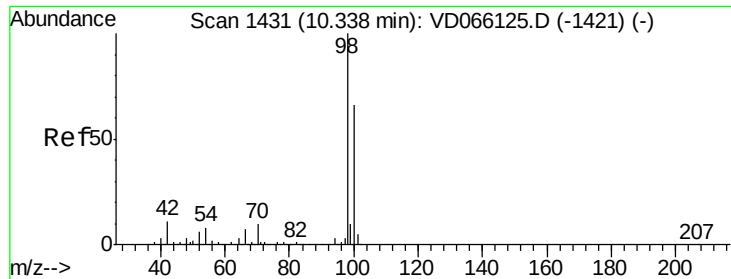
Ion Ratio Lower Upper

117 100

119 0.0 81.0 121.4#

121 0.0 24.8 37.2#

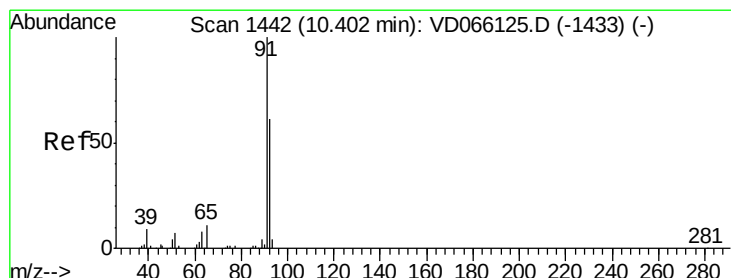
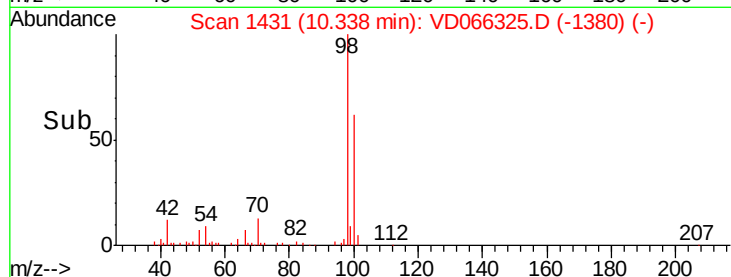
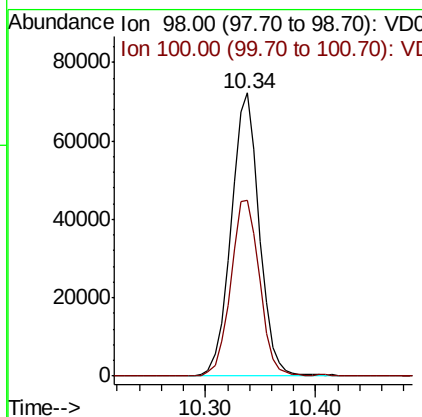
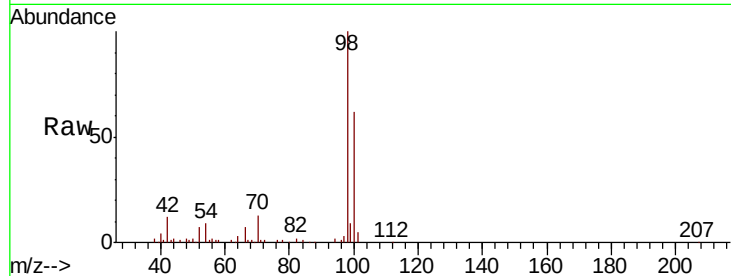




#50
Toluene-d8
Concen: 25.360 ug/l
RT: 10.34 min Scan# 1431
Delta R.T. 0.00 min
Lab File: VD066325.D
Acq: 19 Aug 2020 18:13

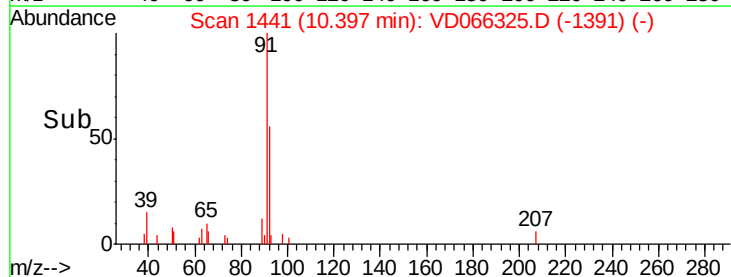
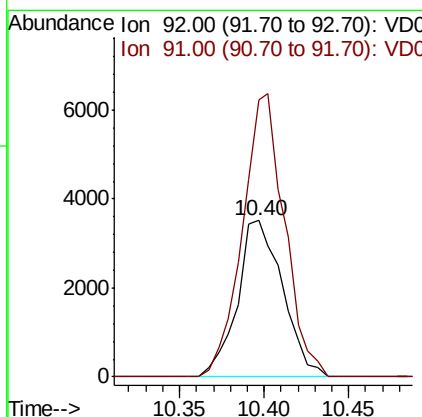
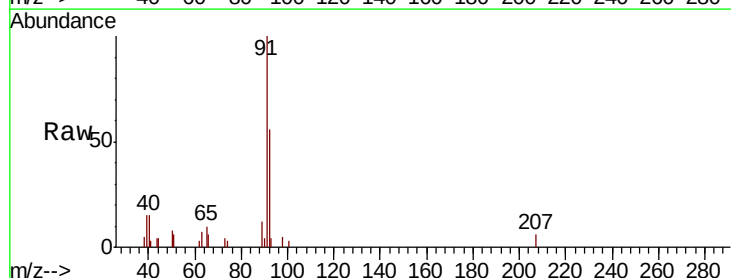
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ClientSampleId :
CHRT-26982

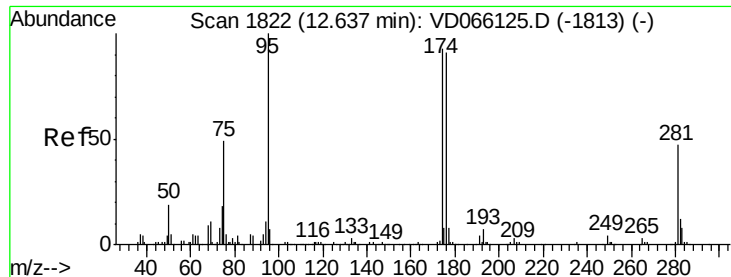
Tot Ion: 98 Resp: 129187
Ion Ratio Lower Upper
98 100
100 63.9 52.6 78.8



#52
Toluene
Concen: 1.755 ug/l
RT: 10.40 min Scan# 1441
Delta R.T. -0.01 min
Lab File: VD066325.D
Acq: 19 Aug 2020 18:13

Tgt Ion: 92 Resp: 6560
Ion Ratio Lower Upper
92 100
91 168.0 135.2 202.8

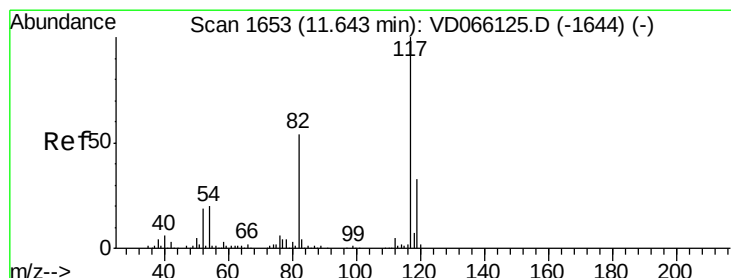
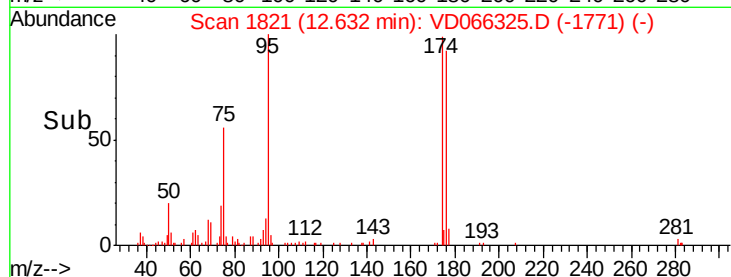
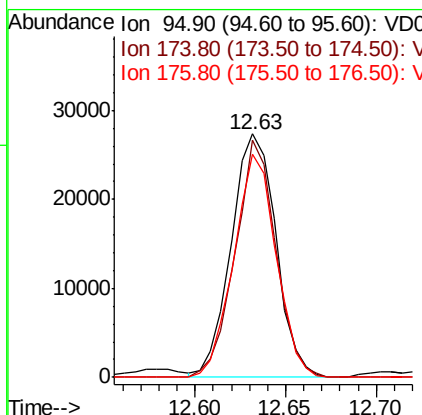
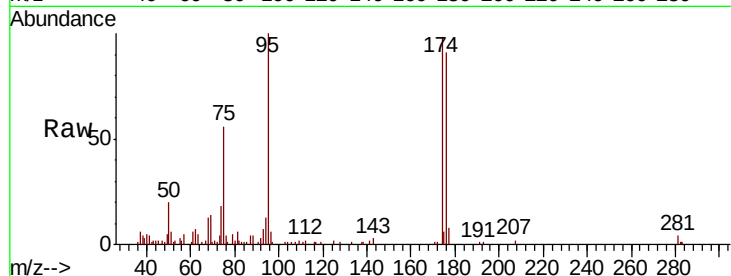




#62
4-Bromofluorobenzene
Concen: 25.589 ug/l
RT: 12.63 min Scan# 1821
Delta R.T. -0.01 min
Lab File: VD066325.D
Acq: 19 Aug 2020 18:13

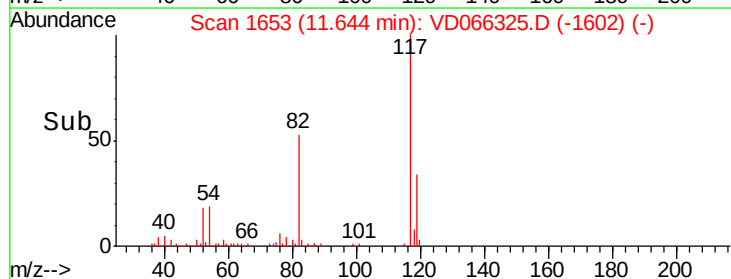
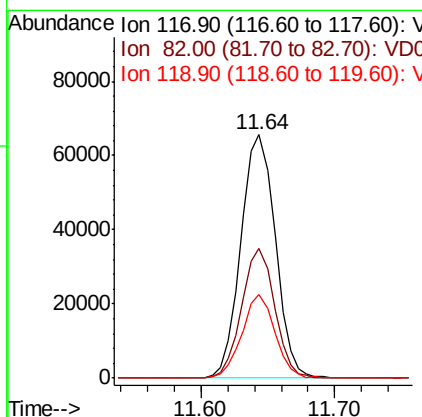
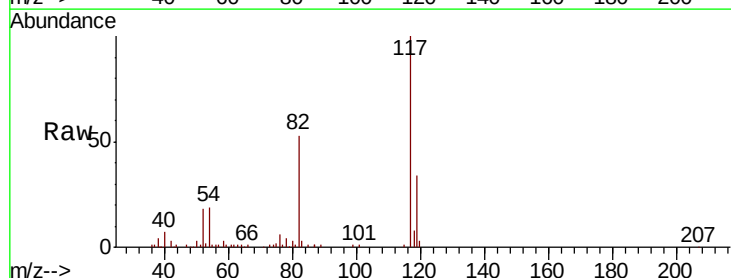
Instrument :
MSVOA_D
ClientSampleId :
CHRT-26982

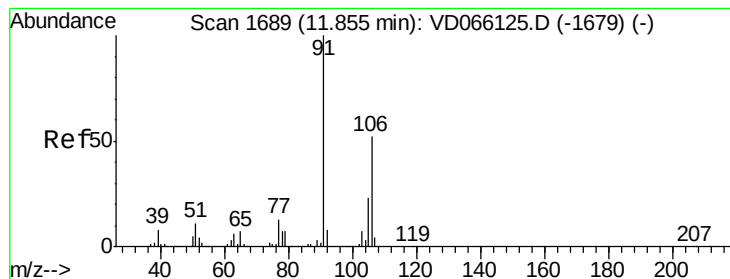
Tot Ion: 95 Resp: 46986
Ion Ratio Lower Upper
95 100
174 88.5 0.0 180.8
176 86.7 0.0 181.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.64 min Scan# 1653
Delta R.T. 0.00 min
Lab File: VD066325.D
Acq: 19 Aug 2020 18:13

Tgt Ion: 117 Resp: 117182
Ion Ratio Lower Upper
117 100
82 53.3 43.0 64.4
119 34.1 26.1 39.1





#68

m/p-Xylenes

Concen: 3.519 ug/l

RT: 11.85 min Scan# 1688

Delta R.T. -0.01 min

Lab File: VD066325.D

Acq: 19 Aug 2020 18:13

Instrument :

MSVOA_D

ClientSampleId :

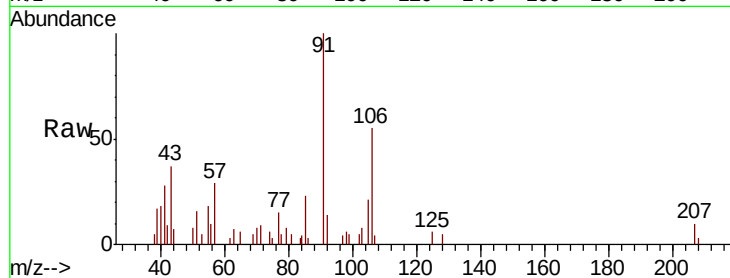
CHRT-26982

Tot Ion:106 Resp: 5621

Ion Ratio Lower Upper

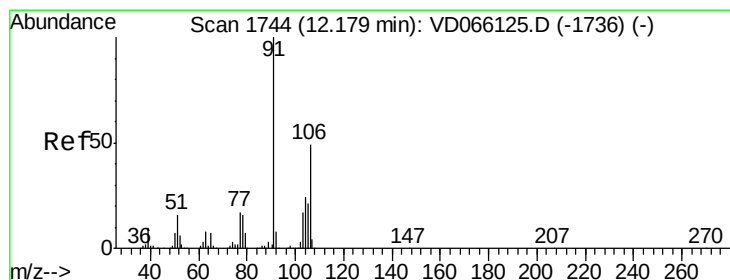
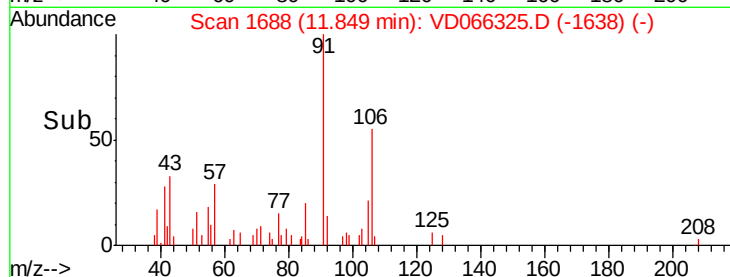
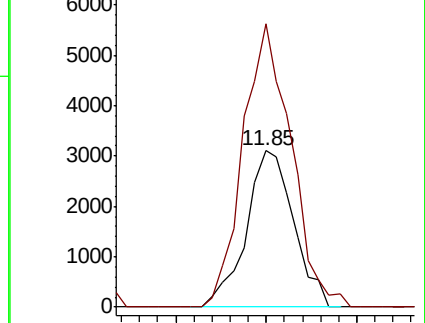
106 100

91 184.6 156.6 235.0



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VDC



#69

o-Xylene

Concen: 1.809 ug/l

RT: 12.18 min Scan# 1744

Delta R.T. 0.00 min

Lab File: VD066325.D

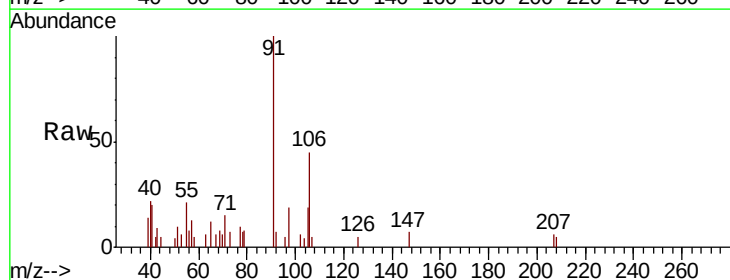
Acq: 19 Aug 2020 18:13

Tgt Ion:106 Resp: 2628

Ion Ratio Lower Upper

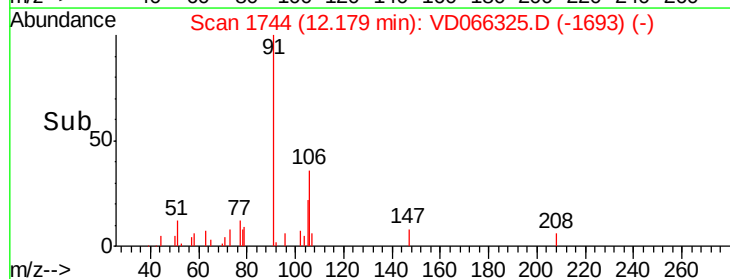
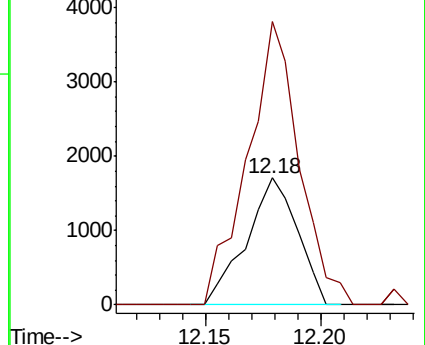
106 100

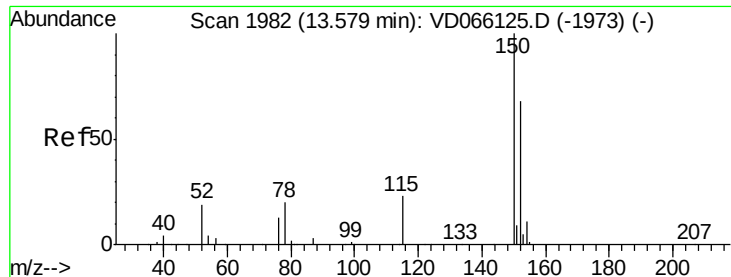
91 225.8 105.7 317.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VDC





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1982

Delta R.T. 0.00 min

Lab File: VD066325.D

Acq: 19 Aug 2020 18:13

Instrument :

MSVOA_D

ClientSampleId :

CHRT-26982

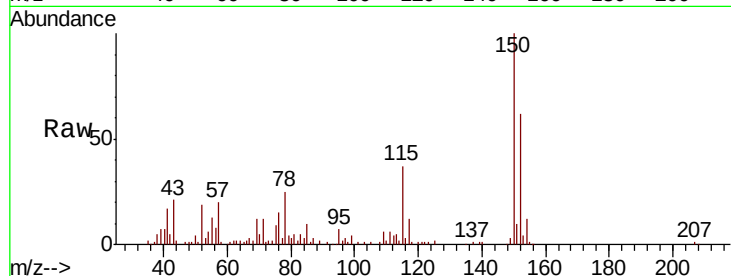
Tot Ion:152 Resp: 38872

Ion Ratio Lower Upper

152 100

115 53.9 28.0 83.9

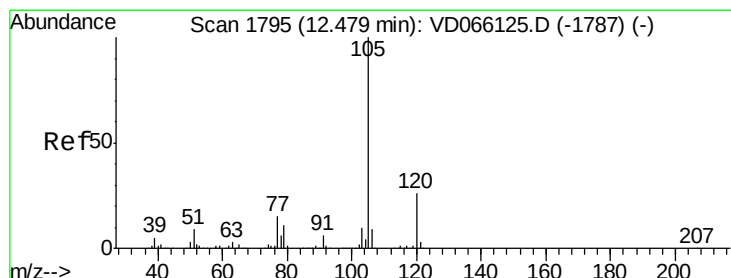
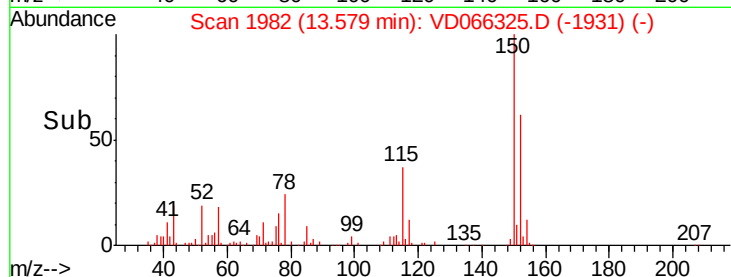
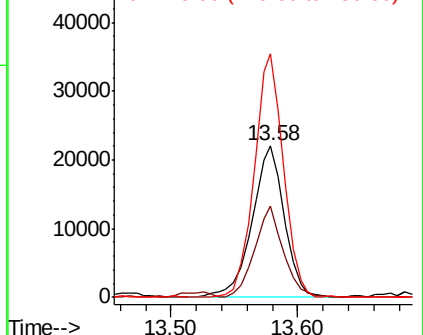
150 145.3 0.0 346.4



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



#73

Isopropylbenzene

Concen: 1.148 ug/l

RT: 12.48 min Scan# 1796

Delta R.T. 0.01 min

Lab File: VD066325.D

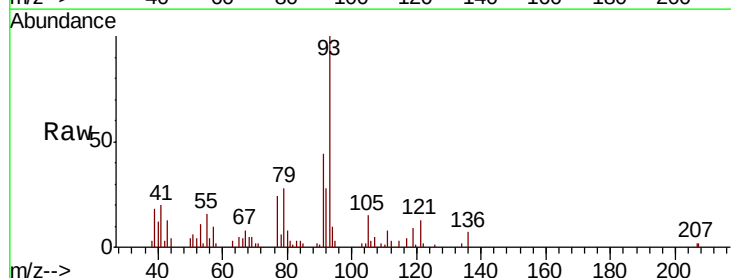
Acq: 19 Aug 2020 18:13

Tgt Ion:105 Resp: 2980

Ion Ratio Lower Upper

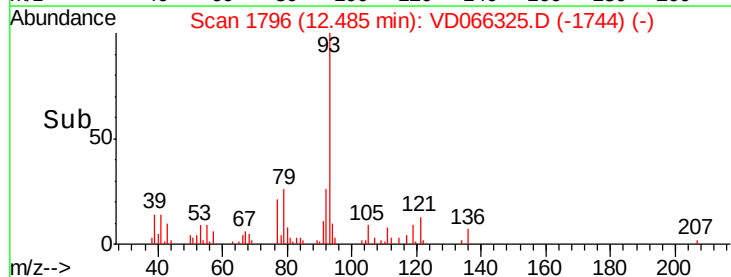
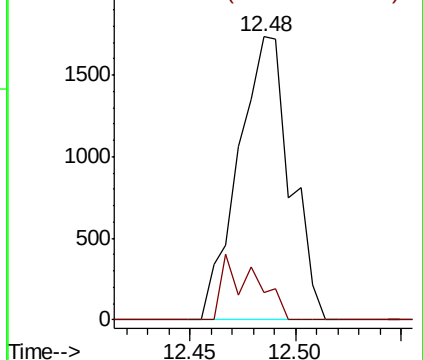
105 100

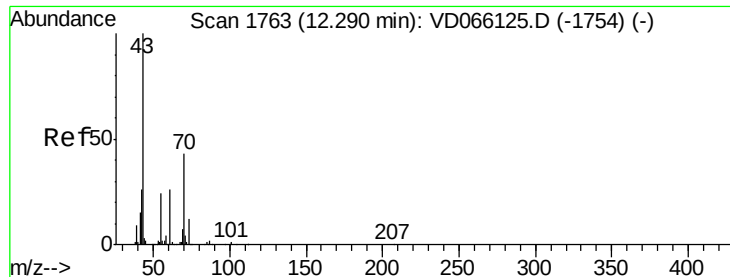
120 14.8 13.3 39.9



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

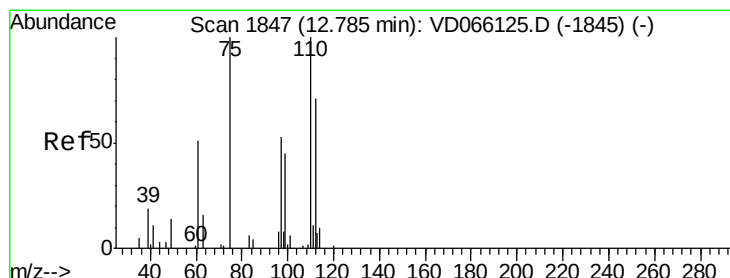
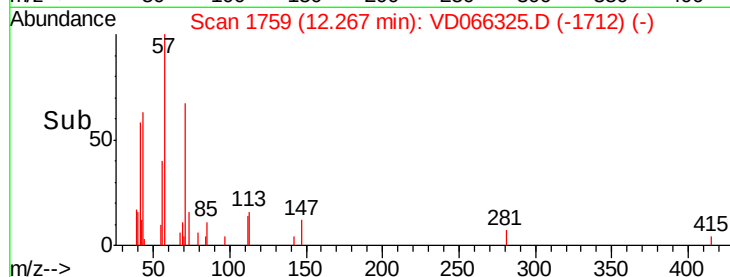
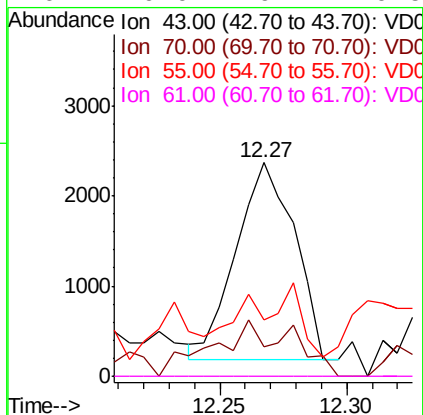
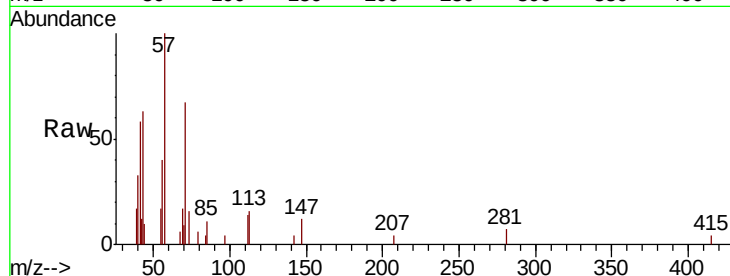




#74
N-amvl acetate
Concen: 6.166 ug/l
RT: 12.27 min Scan# 1759
Delta R.T. -0.02 min
Lab File: VD066325.D
Acq: 19 Aug 2020 18:13

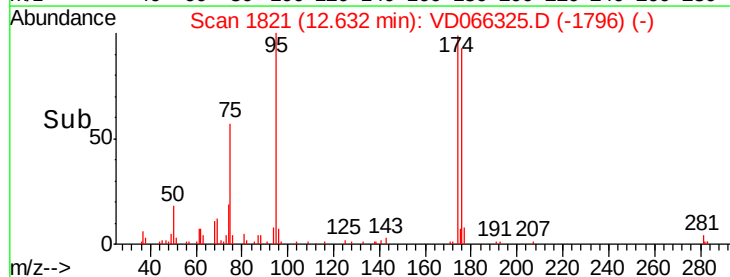
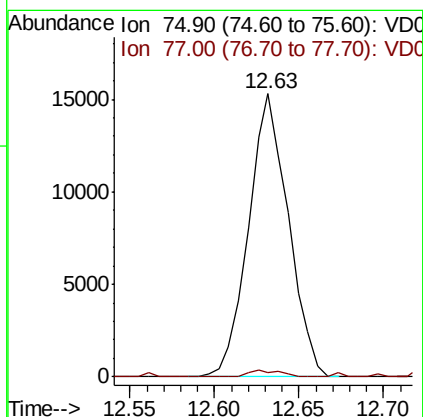
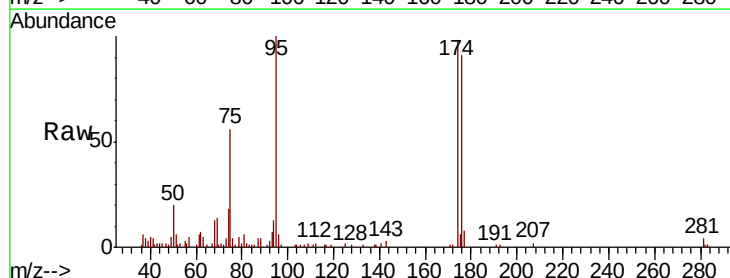
Instrument :
MSVOA_D
ClientSampleId :
CHRT-26982

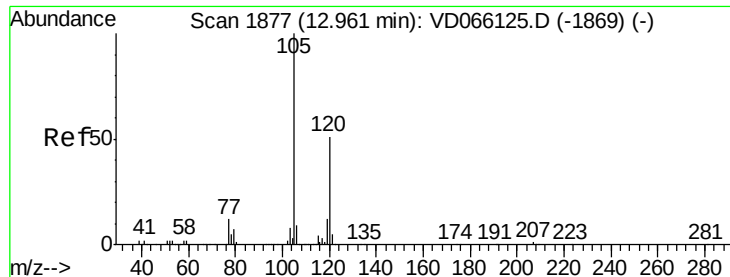
Tot Ion: 43 Resp: 3523
Ion Ratio Lower Upper
43 100
70 38.1 34.9 52.3
55 11.3 19.2 28.8#
61 0.0 19.7 29.5#



#76
1,2,3-Trichloropropane
Concen: 77.316 ug/l
RT: 12.63 min Scan# 1821
Delta R.T. -0.15 min
Lab File: VD066325.D
Acq: 19 Aug 2020 18:13

Tgt Ion: 75 Resp: 25063
Ion Ratio Lower Upper
75 100
77 1.8 0.0 0.0#

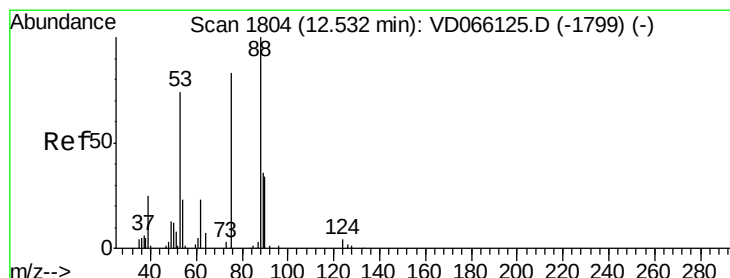
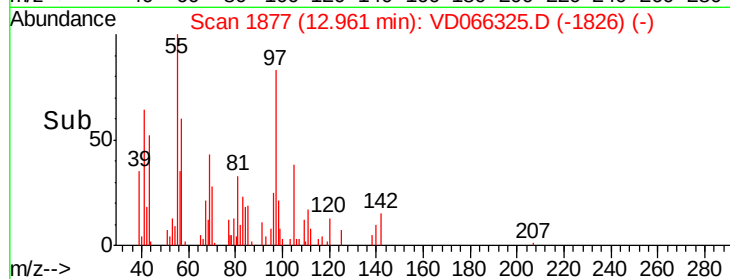
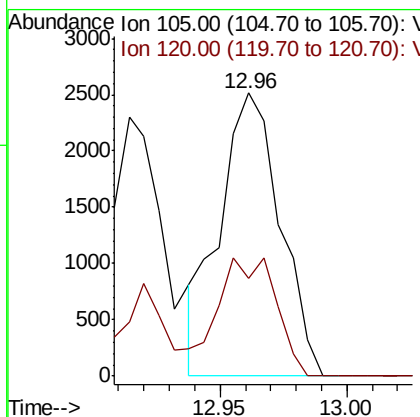
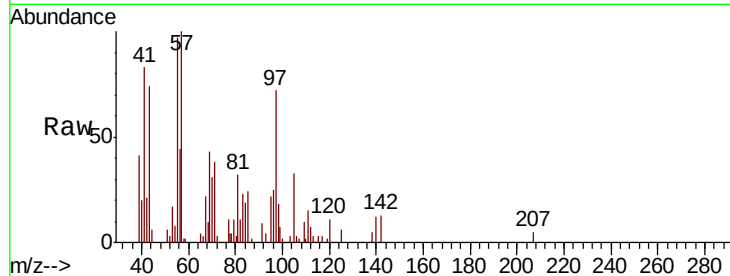




#80
 1,3,5-Trimethylbenzene
 Concen: 1.922 ug/l
 RT: 12.96 min Scan# 1877
 Delta R.T. 0.00 min
 Lab File: VD066325.D
 Acq: 19 Aug 2020 18:13

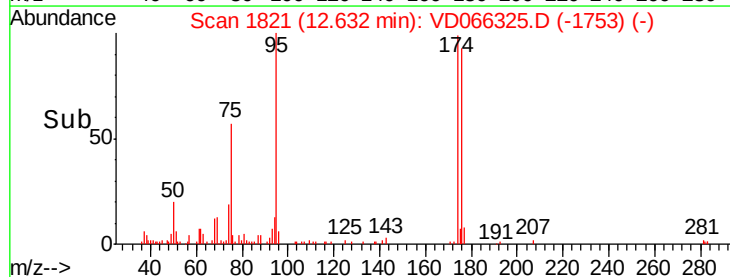
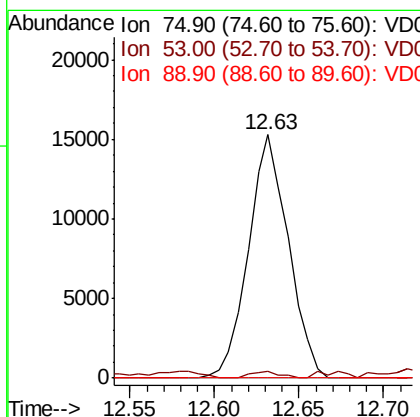
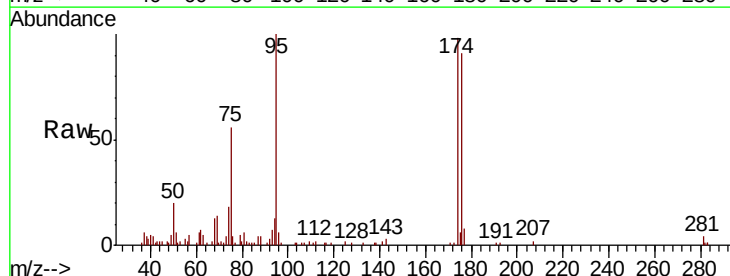
Instrument :
 MSVOA_D
 ClientSampleId :
 CHRT-26982

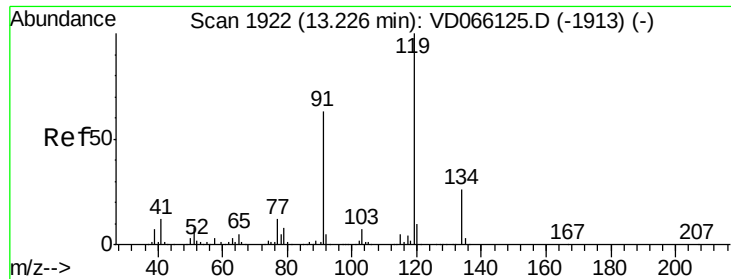
Tot Ion: 105 Resp: 4170
 Ion Ratio Lower Upper
 105 100
 120 39.9 25.3 75.8



#81
 trans-1,4-Dichloro-2-butene
 Concen: 170.911 ug/l
 RT: 12.63 min Scan# 1821
 Delta R.T. 0.10 min
 Lab File: VD066325.D
 Acq: 19 Aug 2020 18:13

Tgt Ion: 75 Resp: 25063
 Ion Ratio Lower Upper
 75 100
 53 2.1 73.4 110.2#
 89 0.0 36.6 55.0#

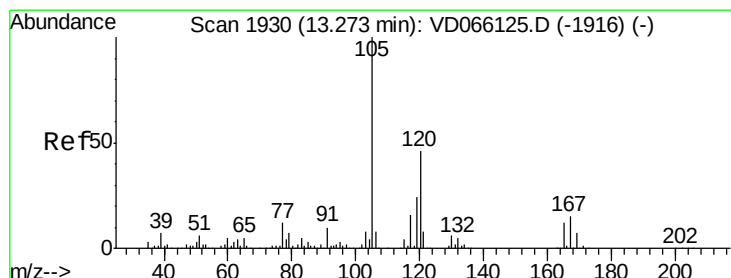
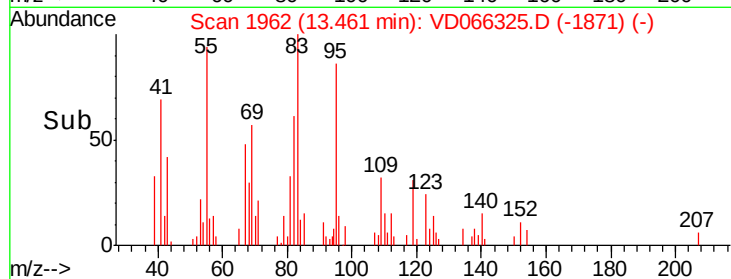
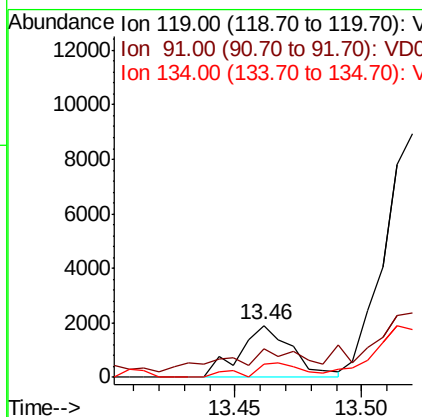
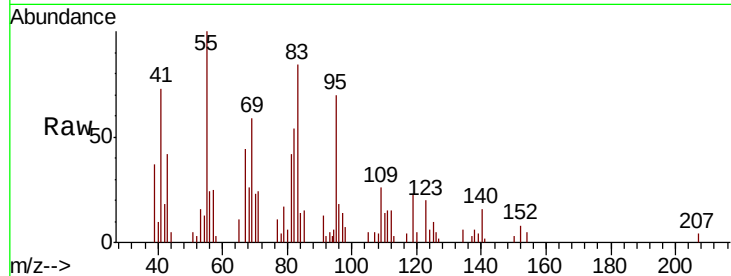




#83
 tert-Butylbenzene
 Concen: 1.436 ug/l
 RT: 13.46 min Scan# 1962
 Delta R.T. 0.24 min
 Lab File: VD066325.D
 Acq: 19 Aug 2020 18:13

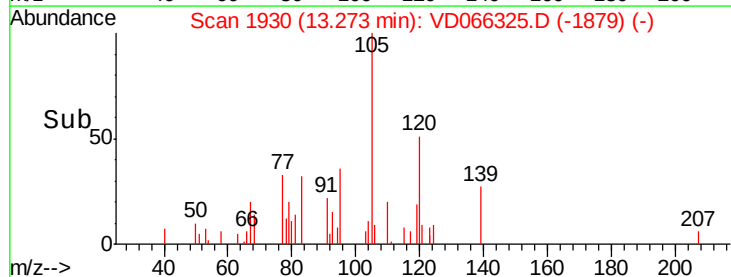
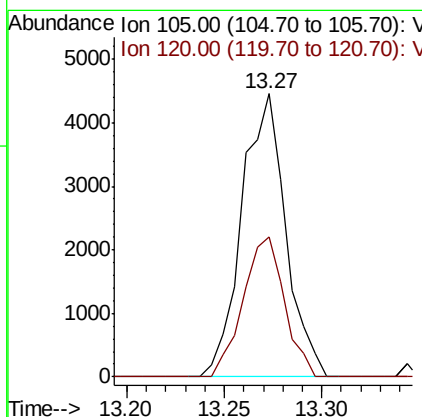
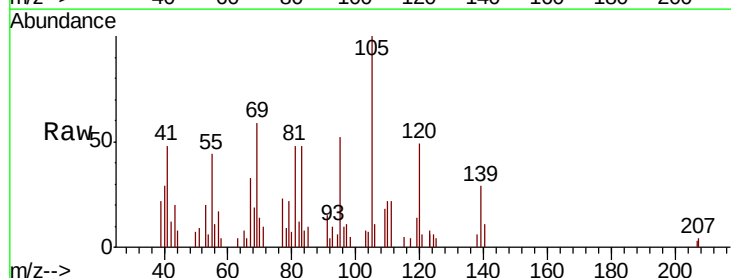
Instrument :
 MSVOA_D
 ClientSampleId :
 CHRT-26982

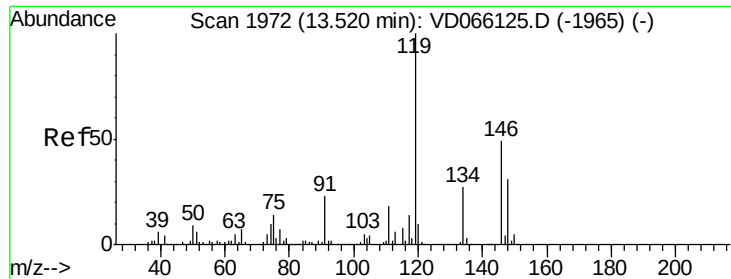
Tot Ion:119 Resp: 2741
 Ion Ratio Lower Upper
 119 100
 91 60.4 30.8 92.4
 134 28.7 13.6 40.8



#84
 1,2,4-Trimethylbenzene
 Concen: 3.187 ug/l
 RT: 13.27 min Scan# 1930
 Delta R.T. 0.00 min
 Lab File: VD066325.D
 Acq: 19 Aug 2020 18:13

Tgt Ion:105 Resp: 6921
 Ion Ratio Lower Upper
 105 100
 120 46.6 23.1 69.2

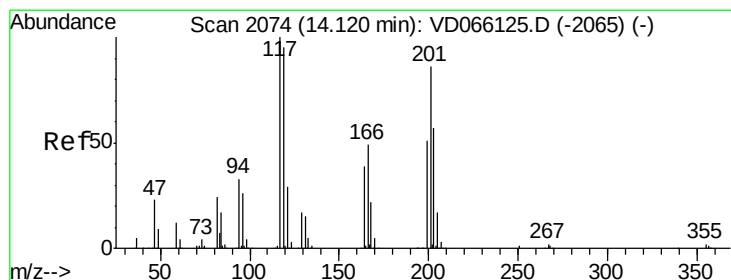
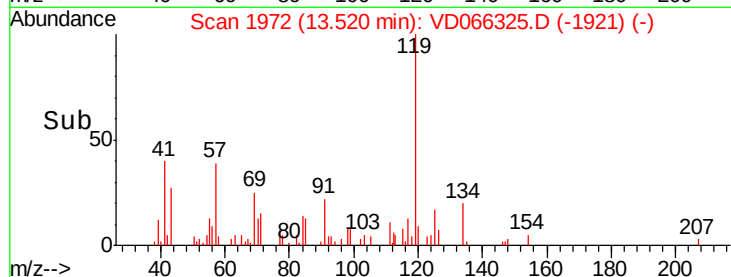
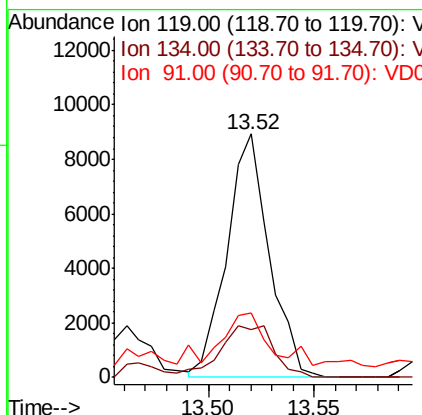
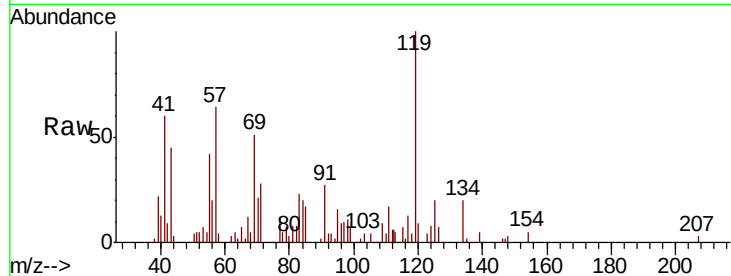




#86
 p-Isopropyltoluene
 Concen: 5.125 ug/l
 RT: 13.52 min Scan# 1972
 Delta R.T. 0.00 min
 Lab File: VD066325.D
 Acq: 19 Aug 2020 18:13

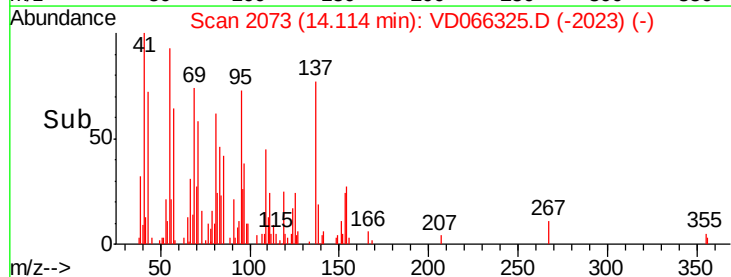
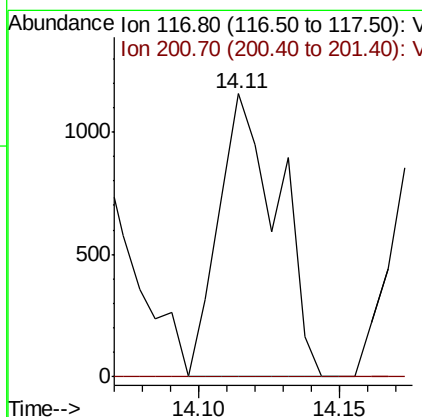
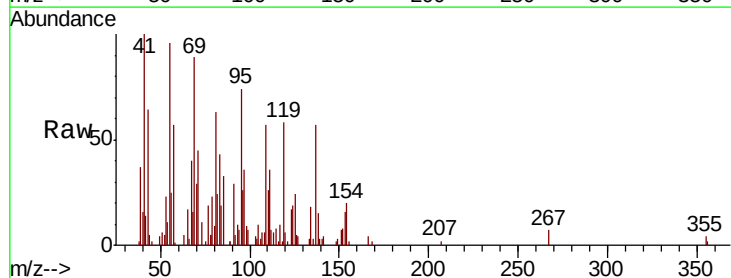
Instrument :
 MSVOA_D
 ClientSampleId :
 CHRT-26982

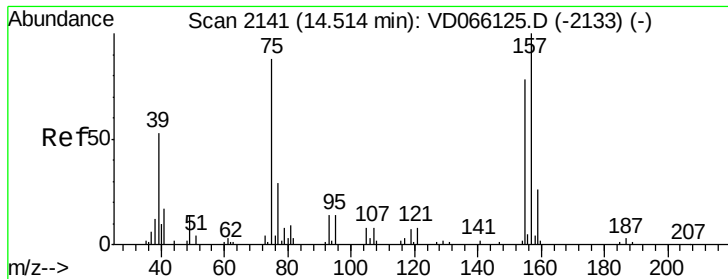
Tot Ion:119 Resp: 12386
 Ion Ratio Lower Upper
 119 100
 134 26.7 13.5 40.4
 91 29.3 11.2 33.5



#90
 Hexachloroethane
 Concen: 3.519 ug/l
 RT: 14.11 min Scan# 2073
 Delta R.T. -0.01 min
 Lab File: VD066325.D
 Acq: 19 Aug 2020 18:13

Tgt Ion:117 Resp: 1696
 Ion Ratio Lower Upper
 117 100
 201 0.0 42.7 128.1#





#92

1,2-Dibromo-3-Chloropropane

Concen: 1.644 ug/l

RT: 14.48 min Scan# 2135

Delta R.T. -0.04 min

Lab File: VD066325.D

Acq: 19 Aug 2020 18:13

Instrument :

MSVOA_D

ClientSampleId :

CHRT-26982

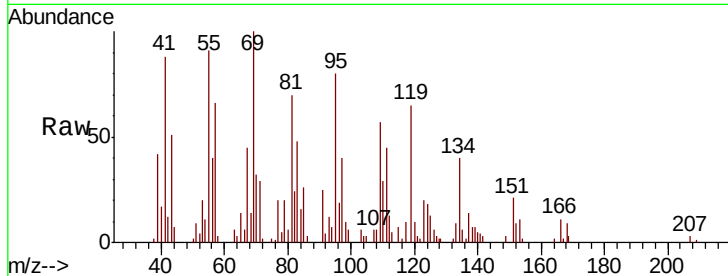
Tot Ion: 75 Resp: 125

Ion Ratio Lower Upper

75 100

155 0.0 47.7 143.1#

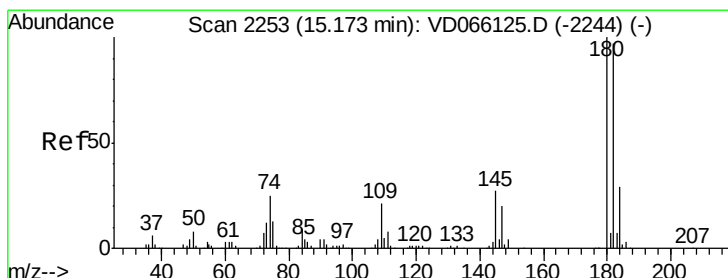
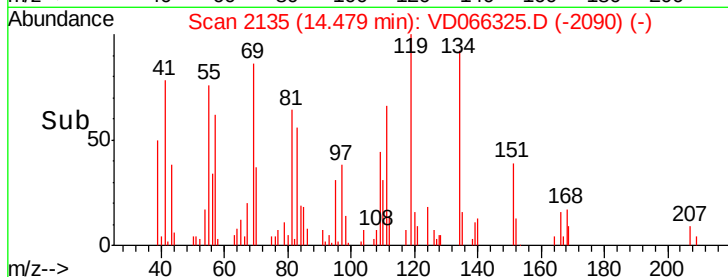
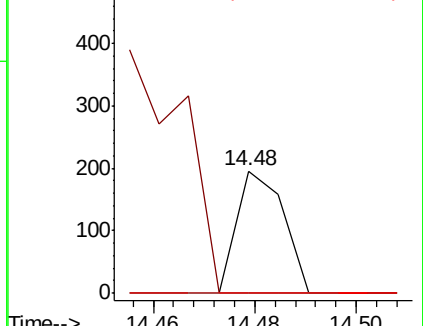
157 0.0 62.1 186.2#



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



#93

1,2,4-Trichlorobenzene

Concen: 1.118 ug/l

RT: 15.17 min Scan# 2253

Delta R.T. 0.00 min

Lab File: VD066325.D

Acq: 19 Aug 2020 18:13

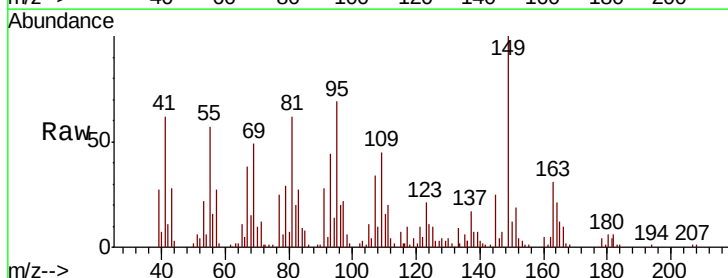
Tgt Ion: 180 Resp: 915

Ion Ratio Lower Upper

180 100

182 226.6 47.4 142.2#

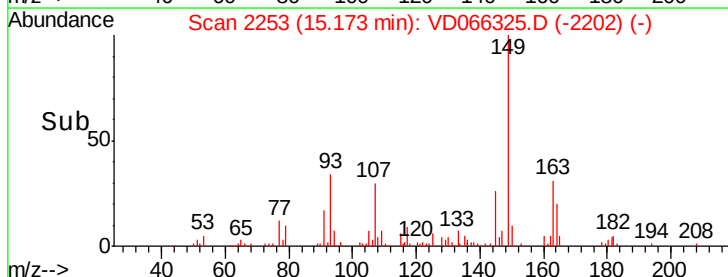
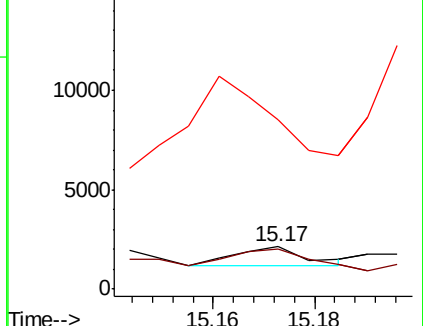
145 2903.3 14.5 43.6#

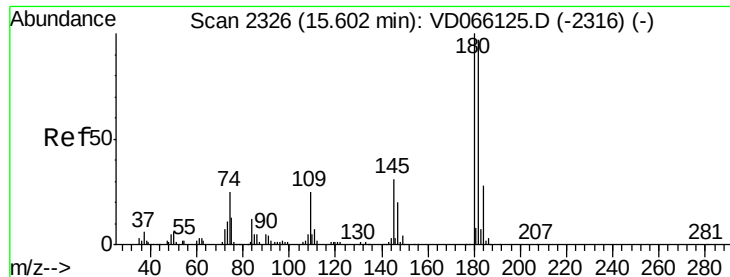


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V

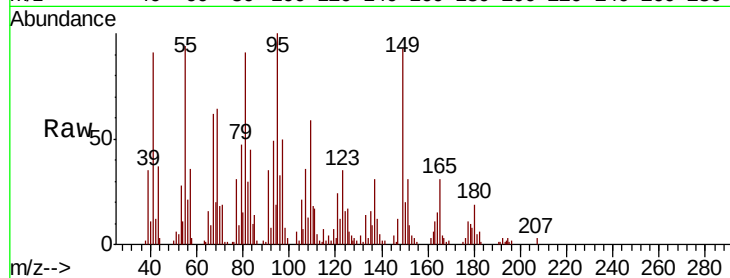




#96
 1,2,3-Trichlorobenzene
 Concen: 8.140 ug/l
 RT: 15.73 min Scan# 2347
 Delta R.T. 0.12 min
 Lab File: VD066325.D
 Acq: 19 Aug 2020 18:13

Instrument :
 MSVOA_D
 ClientSampleId :
 CHRT-26982

Tot Ion	Ratio	Lower	Upper
180	100		
182	58.6	47.1	141.4
145	23.0	14.9	44.9



Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.90 (144.60 to 145.60): V

