

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD081820\
 Data File : VD066303.D
 Acq On : 19 Aug 2020 04:56
 Operator : VA/SY
 Sample : L3689-04
 Misc : 5.47G/5.00ml/MSVOA D/SOIL
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 TP-5

Quant Time: Aug 19 06:47:11 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	154817	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.86	114	214239	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	136827	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	37889	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	68643	49.70	ug/l	0.00
Spiked Amount			Recovery	=	99.40%	
35) Dibromofluoromethane	7.91	113	72451	53.38	ug/l	0.00
Spiked Amount			Recovery	=	106.76%	
50) Toluene-d8	10.34	98	220381	44.00	ug/l	0.00
Spiked Amount			Recovery	=	88.00%	
62) 4-Bromofluorobenzene	12.63	95	50987	28.24	ug/l	0.00
Spiked Amount			Recovery	=	56.48%	

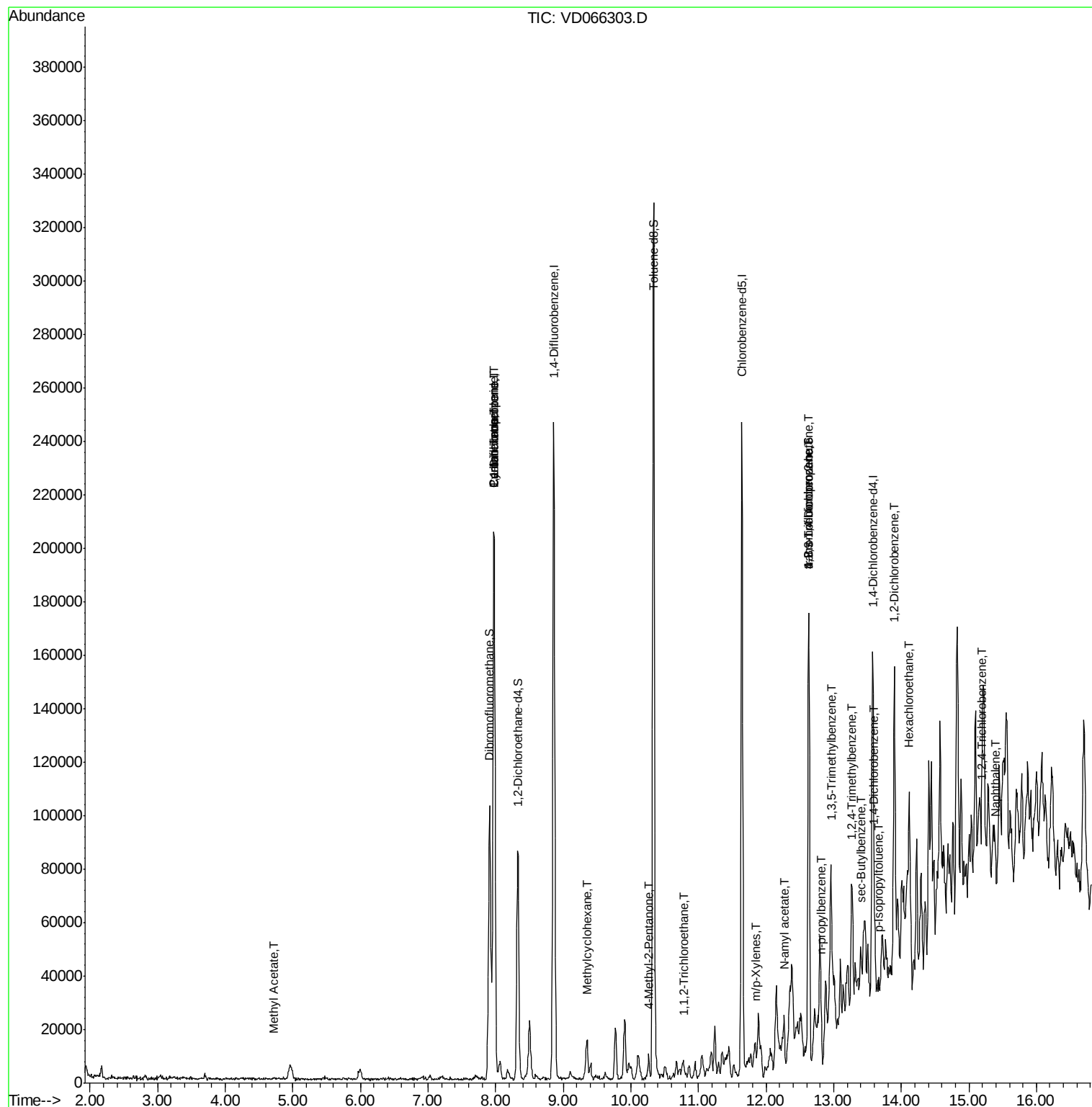
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
18) Methyl Acetate	4.71	43	741	1.113	ug/l #	68
20) Methylene Chloride	4.96	84	4283	Below Cal	#	87
31) Cyclohexane	7.98	56	4877	2.015	ug/l #	62
36) 1,1-Dichloropropene	7.97	75	11277	5.602	ug/l #	52
38) Carbon Tetrachloride	7.97	117	15465	6.889	ug/l #	15
39) Methylcyclohexane	9.36	83	4355	1.790	ug/l #	76
51) 4-Methyl-2-Pentanone	10.26	43	1020	1.264	ug/l #	49
55) 1,1,2-Trichloroethane	10.78	97	2037	1.880	ug/l #	33
68) m/p-Xylenes	11.85	106	2103	1.128	ug/l #	68
74) N-amyl acetate	12.27	43	4705	8.448	ug/l #	58
76) 1,2,3-Trichloropropane	12.63	75	24747	78.321	ug/l #	100
78) n-propylbenzene	12.82	91	4307	1.465	ug/l	97
80) 1,3,5-Trimethylbenzene	12.96	105	11358	5.370	ug/l	89
81) trans-1,4-Dichloro-2-buten	12.63	75	24747	173.134	ug/l #	15
84) 1,2,4-Trimethylbenzene	13.27	105	26556	12.545	ug/l	99
85) sec-Butylbenzene	13.41	105	5723	2.279	ug/l	88
86) p-Isopropyltoluene	13.67	119	3119	1.324	ug/l	89
88) 1,4-Dichlorobenzene	13.60	146	2809	2.302	ug/l #	1
90) Hexachloroethane	14.12	117	2939	6.256	ug/l #	7
91) 1,2-Dichlorobenzene	13.90	146	8888	8.213	ug/l #	53
93) 1,2,4-Trichlorobenzene	15.18	180	921	1.155	ug/l #	12
95) Naphthalene	15.40	128	3745	2.882	ug/l #	77

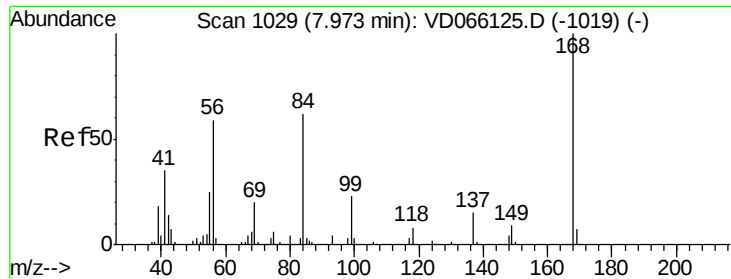
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D080520S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 05 13:49:25 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.97 min Scan# 1029

Delta R.T. -0.00 min

Lab File: VD066303.D

Acq: 19 Aug 2020 04:56

Instrument :

MSVOA_D

ClientSampleId :

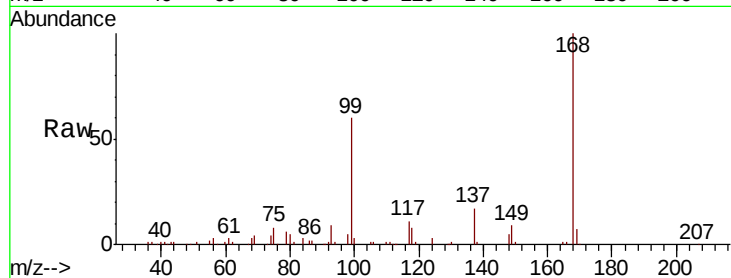
TP-5

Tot Ion:168 Resp: 154817

Ion Ratio Lower Upper

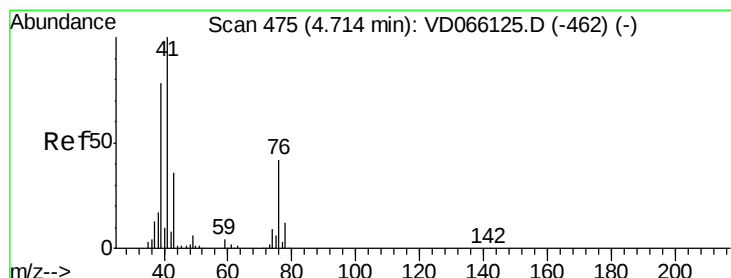
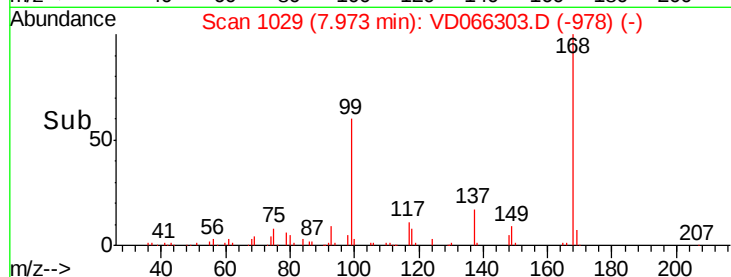
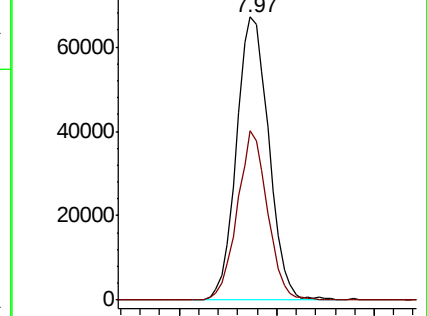
168 100

99 59.8 42.2 63.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#18

Methyl Acetate

Concen: 1.113 ug/l

RT: 4.71 min Scan# 475

Delta R.T. -0.00 min

Lab File: VD066303.D

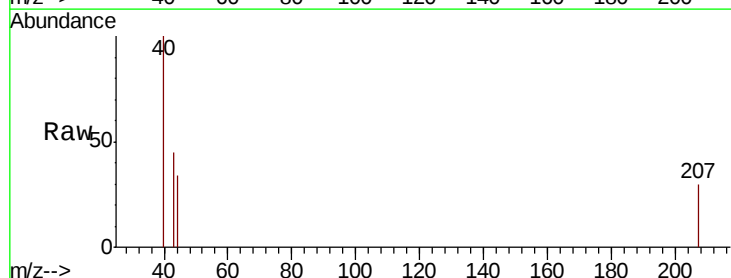
Acq: 19 Aug 2020 04:56

Tgt Ion: 43 Resp: 741

Ion Ratio Lower Upper

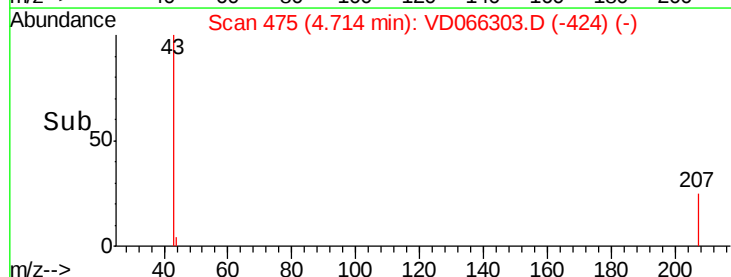
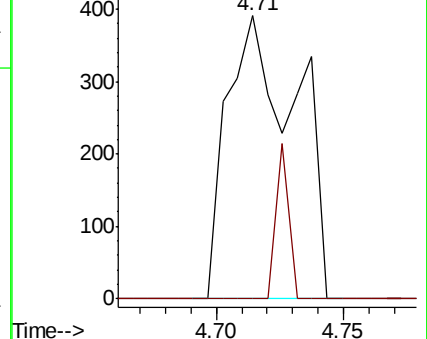
43 100

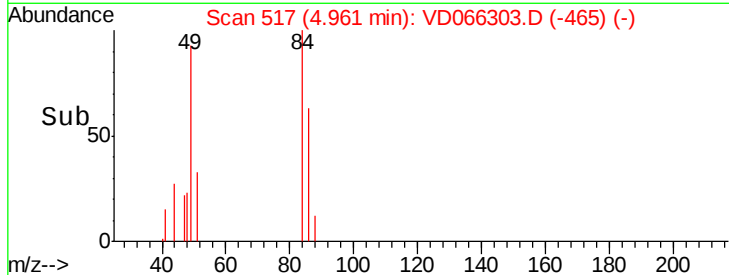
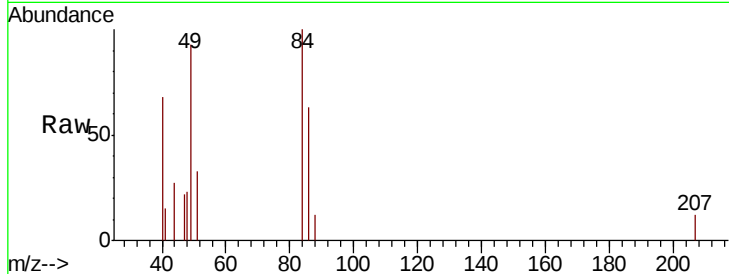
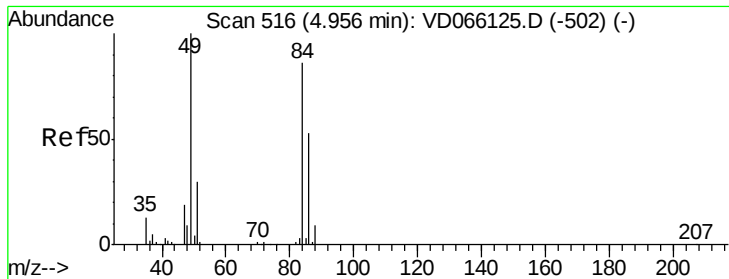
74 10.3 21.2 31.8#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 74.00 (73.70 to 74.70): VDC





#20

Methvlene Chloride

Concen: Below Cal

RT: 4.96 min Scan# 517

Delta R.T. 0.01 min

Lab File: VD066303.D

Acq: 19 Aug 2020 04:56

Instrument :

MSVOA_D

ClientSampleId :

TP-5

Tot Ion: 84 Resp: 4283

Ion Ratio Lower Upper

84 100

49 93.2 93.5 140.3#

51 33.4 28.2 42.4

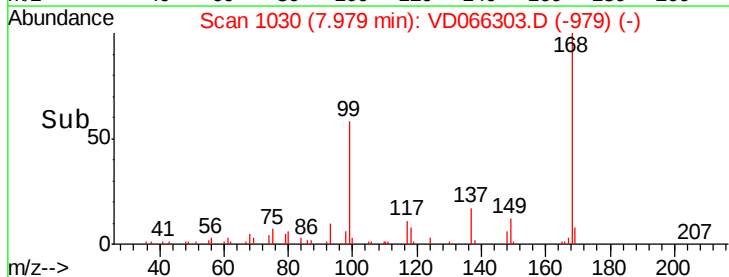
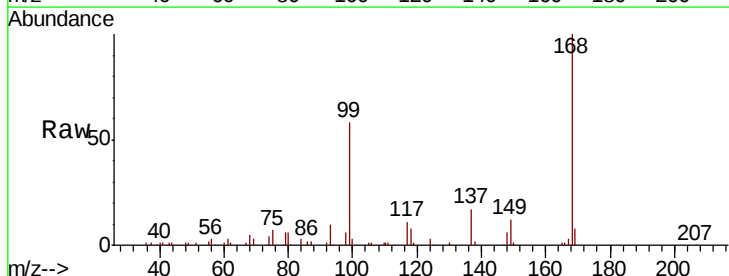
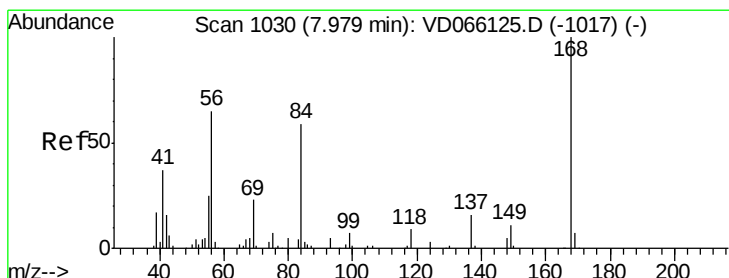
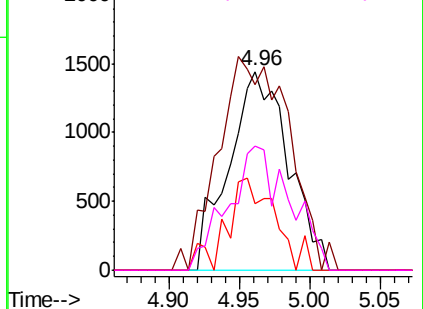
86 62.7 49.5 74.3

Abundance Ion 83.90 (83.60 to 84.60): VDC

Ion 48.90 (48.60 to 49.60): VDC

Ion 50.90 (50.60 to 51.60): VDC

Ion 85.90 (85.60 to 86.60): VDC



#31

Cyclohexane

Concen: 2.015 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.00 min

Lab File: VD066303.D

Acq: 19 Aug 2020 04:56

Tgt Ion: 56 Resp: 4877

Ion Ratio Lower Upper

56 100

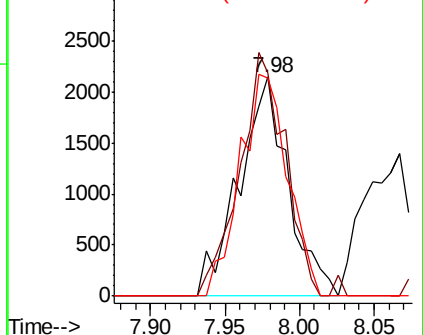
69 101.8 28.8 43.2#

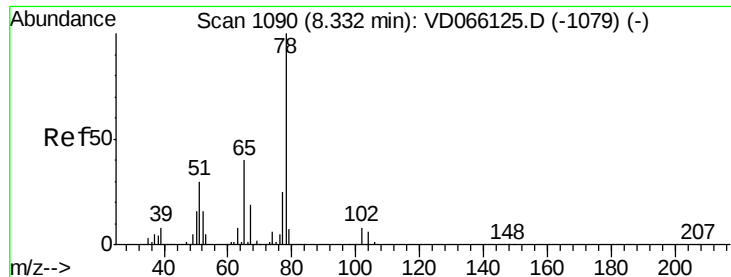
84 99.7 73.0 109.6

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

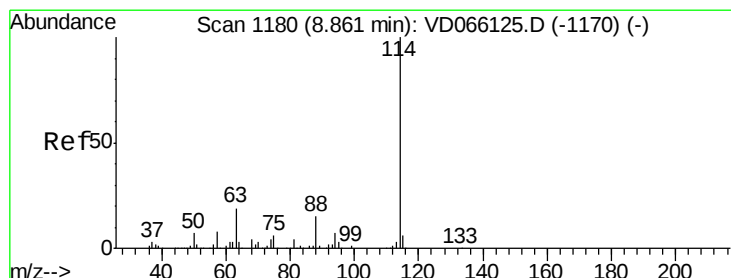
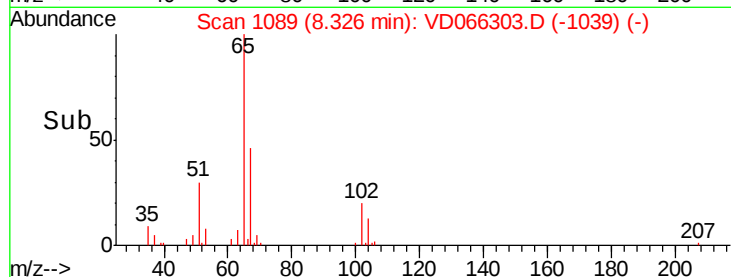
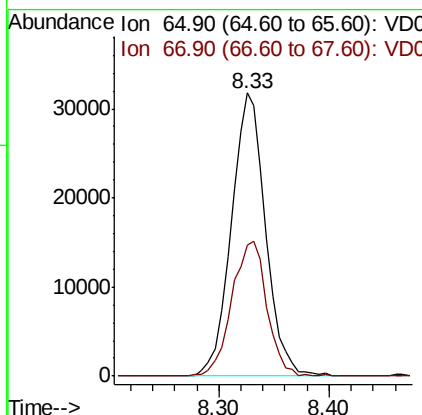
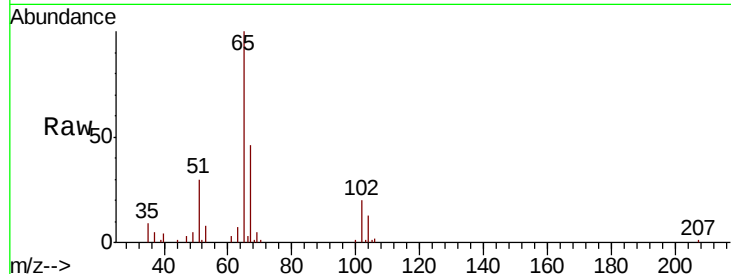




#33
 1,2-Dichloroethane-d4
 Concen: 49.698 ug/l
 RT: 8.33 min Scan# 1089
 Delta R.T. -0.01 min
 Lab File: VD066303.D
 Acq: 19 Aug 2020 04:56

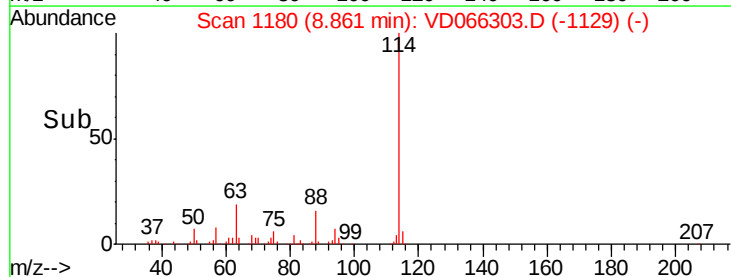
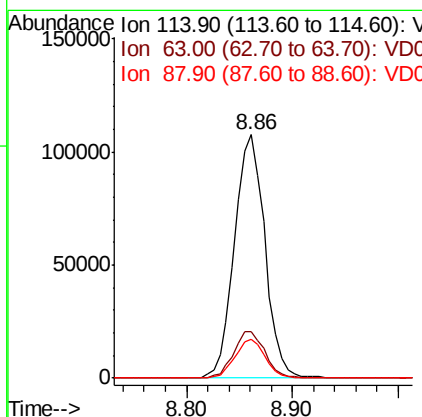
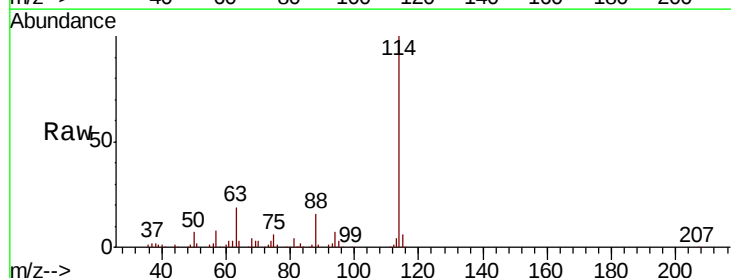
Instrument :
 MSVOA_D
 ClientSampleId :
 TP-5

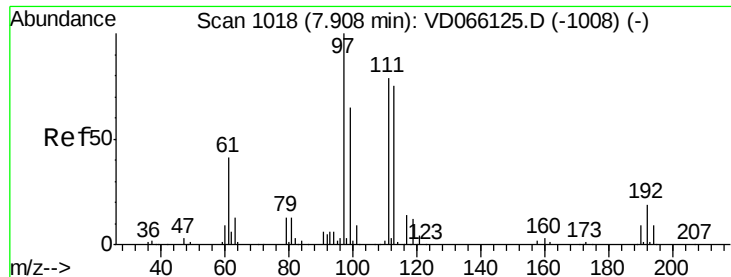
Tot Ion: 65 Resp: 68643
 Ion Ratio Lower Upper
 65 100
 67 49.0 0.0 104.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.86 min Scan# 1180
 Delta R.T. -0.00 min
 Lab File: VD066303.D
 Acq: 19 Aug 2020 04:56

Tgt Ion: 114 Resp: 214239
 Ion Ratio Lower Upper
 114 100
 63 19.0 0.0 38.6
 88 15.8 0.0 30.0

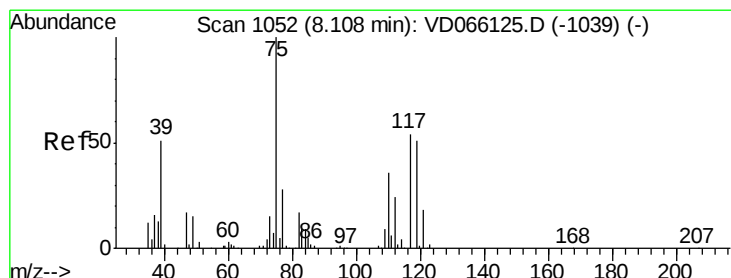
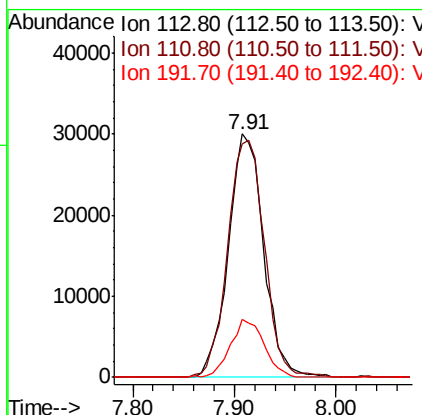
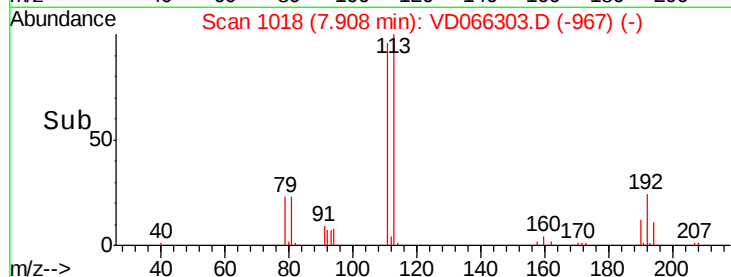
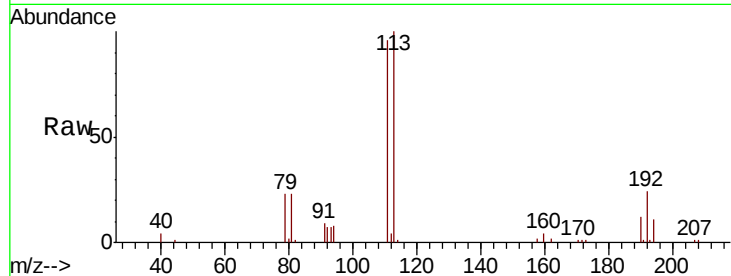




#35
 Dibromofluoromethane
 Concen: 53.383 ug/l
 RT: 7.91 min Scan# 1018
 Delta R.T. -0.00 min
 Lab File: VD066303.D
 Acq: 19 Aug 2020 04:56

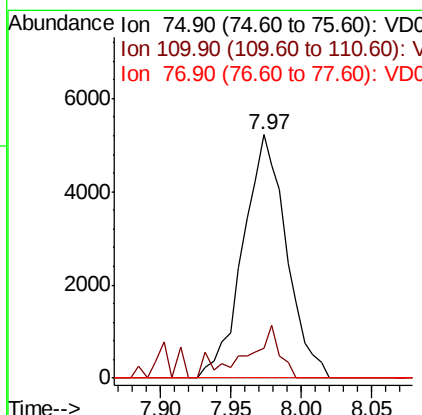
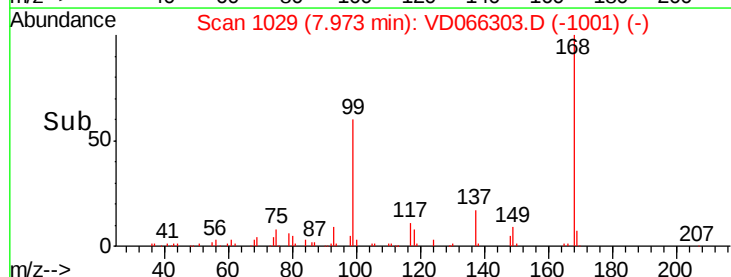
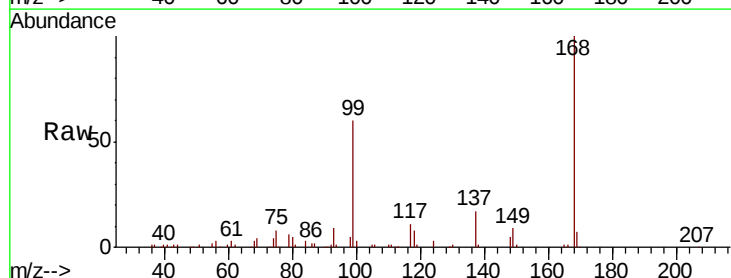
Instrument :
 MSVOA_D
 ClientSampleId :
 TP-5

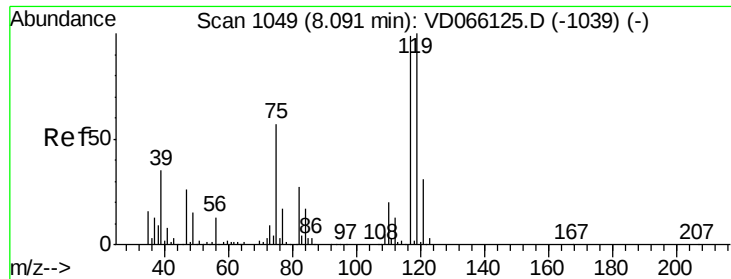
Tot Ion:113 Resp: 72451
 Ion Ratio Lower Upper
 113 100
 111 101.2 80.7 121.1
 192 22.7 18.4 27.6



#36
 1,1-Dichloropropene
 Concen: 5.602 ug/l
 RT: 7.97 min Scan# 1029
 Delta R.T. -0.14 min
 Lab File: VD066303.D
 Acq: 19 Aug 2020 04:56

Tgt Ion: 75 Resp: 11277
 Ion Ratio Lower Upper
 75 100
 110 12.9 18.8 56.3#
 77 0.0 24.2 36.2#

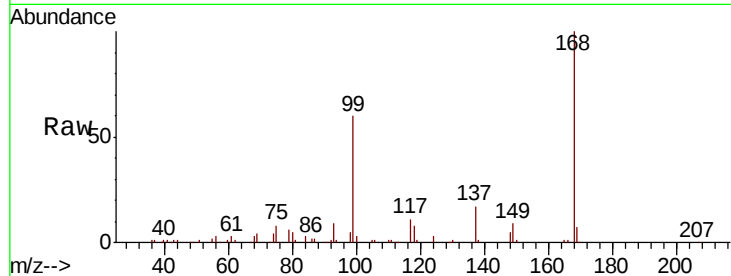




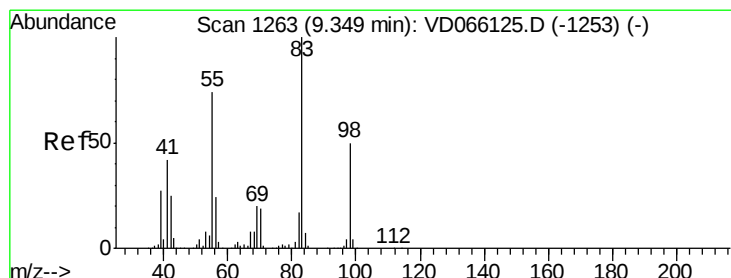
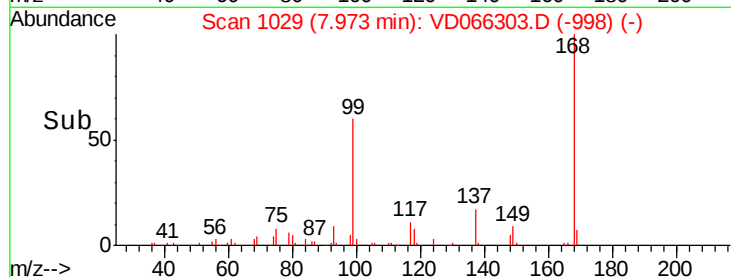
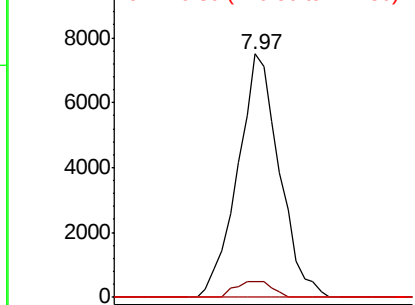
#38
Carbon Tetrachloride
Concen: 6.889 ug/l
RT: 7.97 min Scan# 1029
Delta R.T. -0.12 min
Lab File: VD066303.D
Acq: 19 Aug 2020 04:56

Instrument :
MSVOA_D
ClientSampleId :
TP-5

Tot Ion:117 Resp: 15465
Ion Ratio Lower Upper
117 100
119 6.3 81.0 121.4#
121 0.0 24.8 37.2#

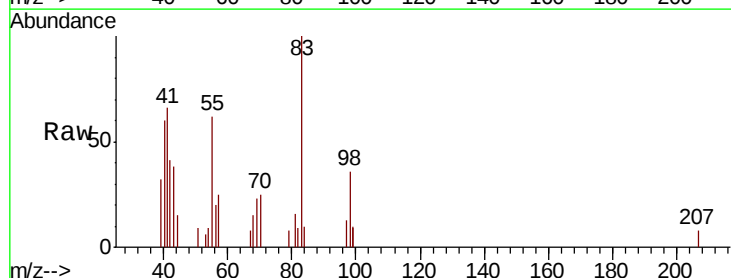


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

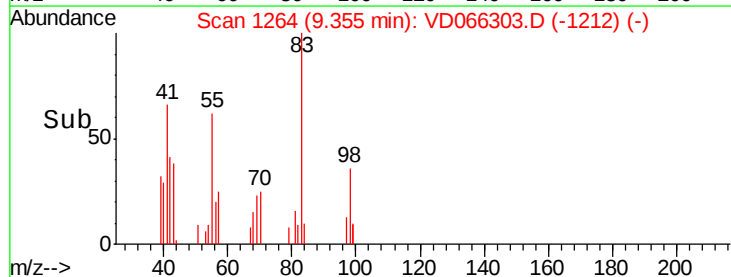
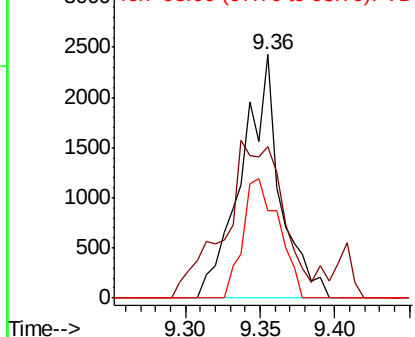


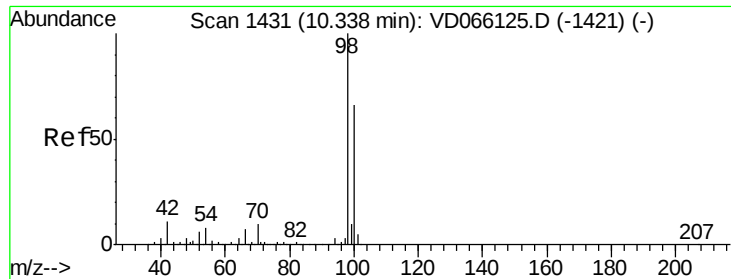
#39
Methylcyclohexane
Concen: 1.790 ug/l
RT: 9.36 min Scan# 1264
Delta R.T. 0.01 min
Lab File: VD066303.D
Acq: 19 Aug 2020 04:56

Tgt Ion: 83 Resp: 4355
Ion Ratio Lower Upper
83 100
55 50.9 59.2 88.8#
98 36.2 39.8 59.6#



Abundance Ion 83.00 (82.70 to 83.70): VDC
Ion 55.00 (54.70 to 55.70): VDC
Ion 98.00 (97.70 to 98.70): VDC





#50

Toluene-d8

Concen: 44.003 ug/l

RT: 10.34 min Scan# 1431

Delta R.T. -0.00 min

Lab File: VD066303.D

Acq: 19 Aug 2020 04:56

Instrument :

MSVOA_D

ClientSampleId :

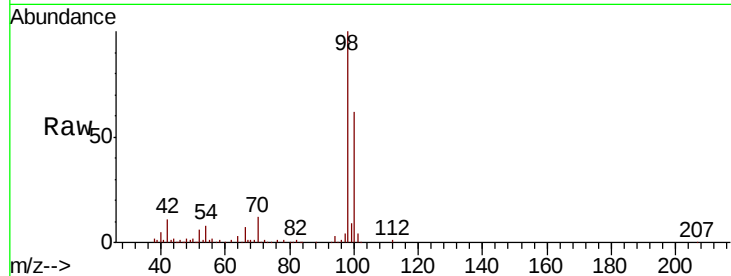
TP-5

Tot Ion: 98 Resp: 220381

Ion Ratio Lower Upper

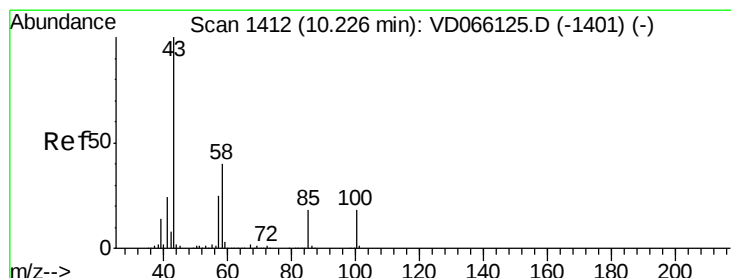
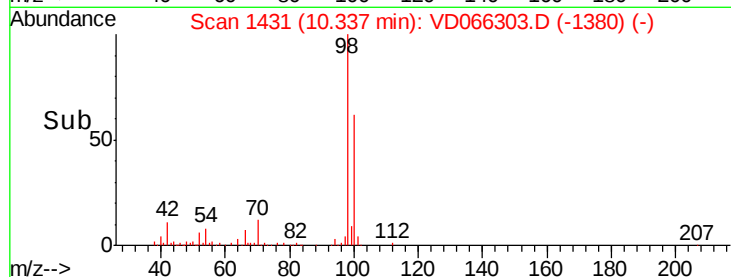
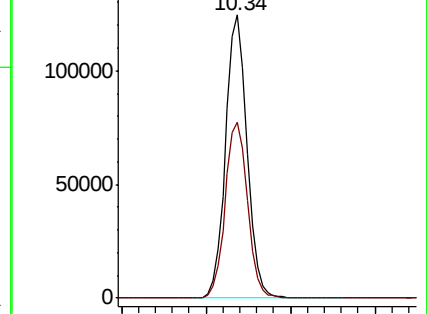
98 100

100 64.5 52.6 78.8



Abundance Ion 98.00 (97.70 to 98.70): VDC

Ion 100.00 (99.70 to 100.70): VDC



#51

4-Methyl-2-Pentanone

Concen: 1.264 ug/l

RT: 10.26 min Scan# 1418

Delta R.T. 0.04 min

Lab File: VD066303.D

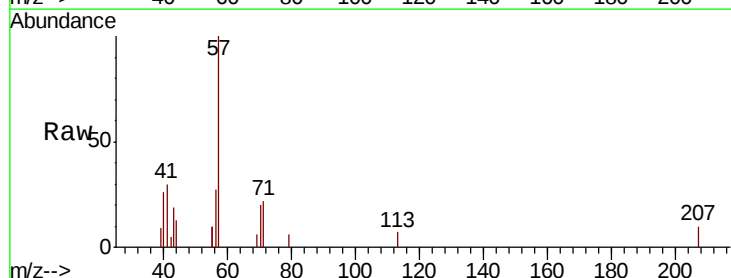
Acq: 19 Aug 2020 04:56

Tgt Ion: 43 Resp: 1020

Ion Ratio Lower Upper

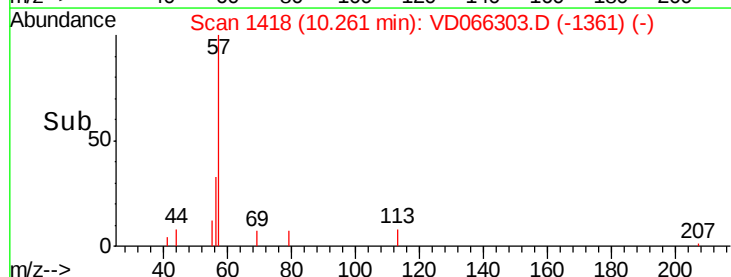
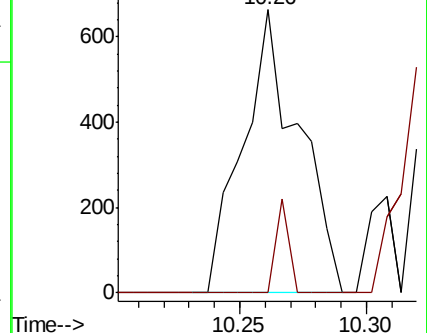
43 100

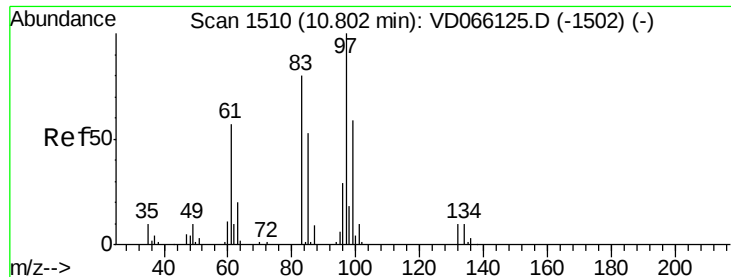
58 7.5 31.1 46.7#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC





#55

1,1,2-Trichloroethane

Concen: 1.880 ug/l

RT: 10.78 min Scan# 1506

Delta R.T. -0.02 min

Lab File: VD066303.D

Acq: 19 Aug 2020 04:56

Instrument :

MSVOA_D

ClientSampleId :

TP-5

Tot Ion: 97 Resp: 2037

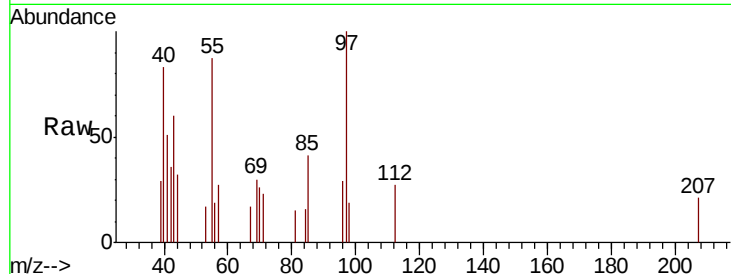
Ion Ratio Lower Upper

97 100

83 0.0 63.9 95.9#

85 40.7 42.5 63.7#

99 0.0 47.4 71.0#

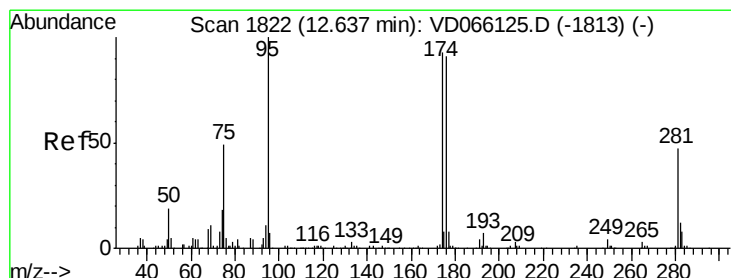
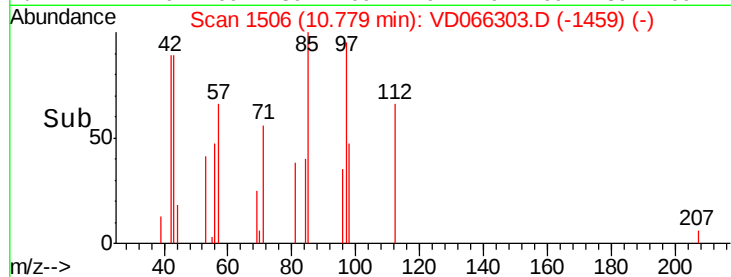
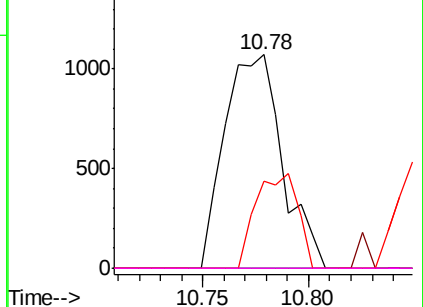


Abundance Ion 96.90 (96.60 to 97.60): VDC

Ion 82.90 (82.60 to 83.60): VDC

Ion 84.90 (84.60 to 85.60): VDC

Ion 98.90 (98.60 to 99.60): VDC



#62

4-Bromofluorobenzene

Concen: 28.243 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.01 min

Lab File: VD066303.D

Acq: 19 Aug 2020 04:56

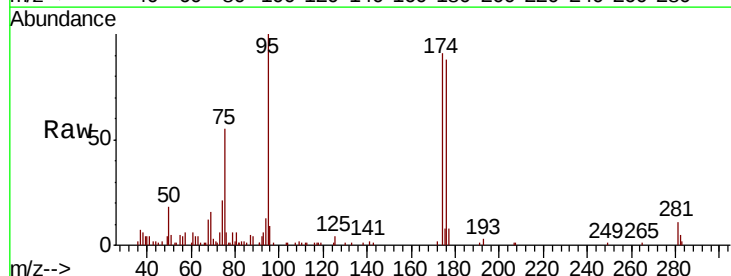
Tgt Ion: 95 Resp: 50987

Ion Ratio Lower Upper

95 100

174 88.8 0.0 180.8

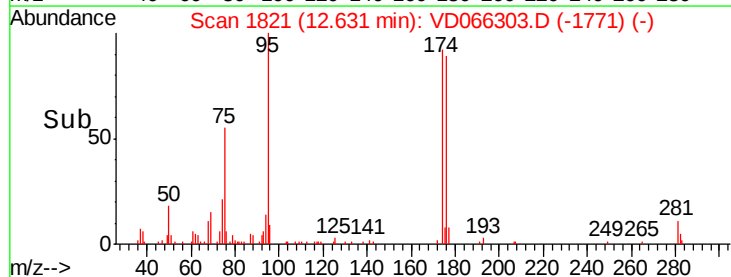
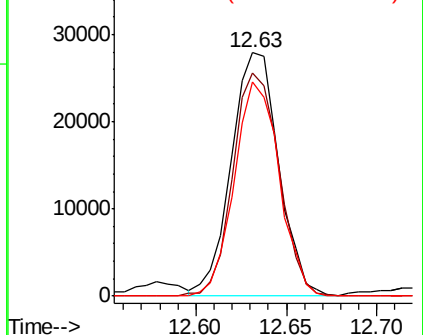
176 82.9 0.0 181.2

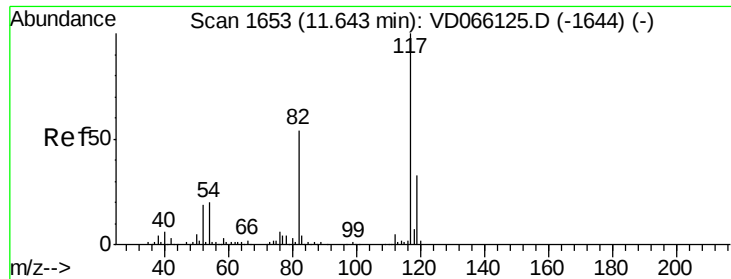


Abundance Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

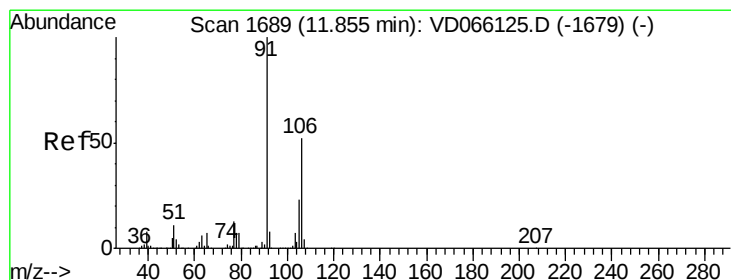
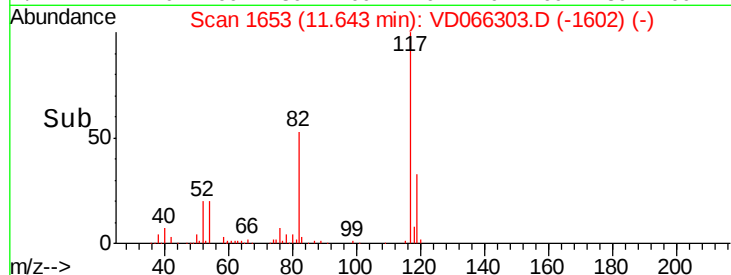
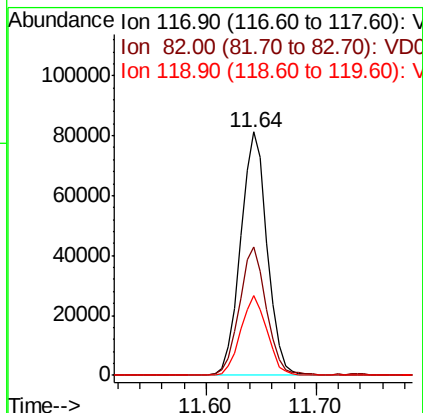
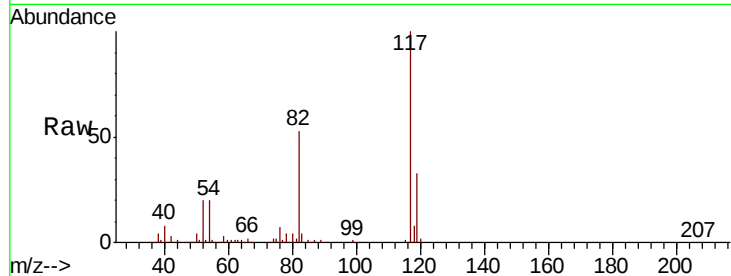




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.64 min Scan# 1653
Delta R.T. -0.00 min
Lab File: VD066303.D
Acq: 19 Aug 2020 04:56

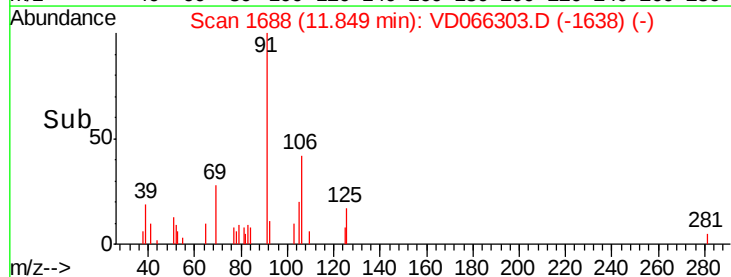
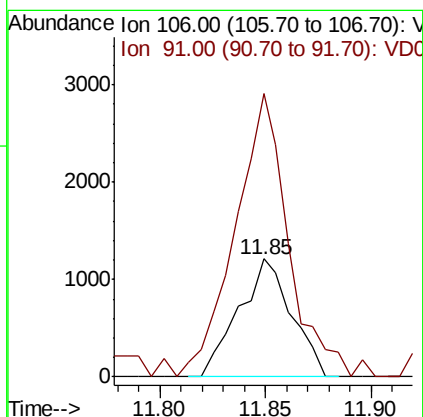
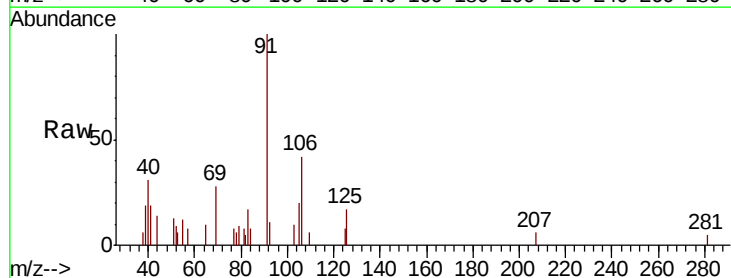
Instrument :
MSVOA_D
ClientSampleId :
TP-5

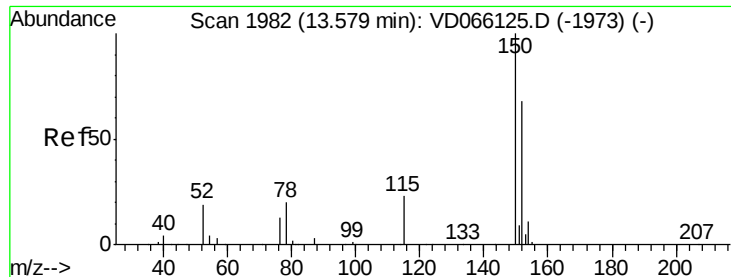
Tot Ion:117 Resp: 136827
Ion Ratio Lower Upper
117 100
82 52.7 43.0 64.4
119 33.0 26.1 39.1



#68
m/p-Xylenes
Concen: 1.128 ug/l
RT: 11.85 min Scan# 1688
Delta R.T. -0.01 min
Lab File: VD066303.D
Acq: 19 Aug 2020 04:56

Tgt Ion:106 Resp: 2103
Ion Ratio Lower Upper
106 100
91 243.6 156.6 235.0#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1982

Delta R.T. -0.00 min

Lab File: VD066303.D

Acq: 19 Aug 2020 04:56

Instrument :

MSVOA_D

ClientSampleId :

TP-5

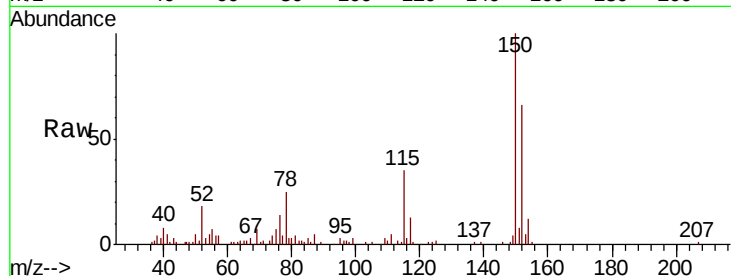
Tot Ion:152 Resp: 37889

Ion Ratio Lower Upper

152 100

115 51.6 28.0 83.9

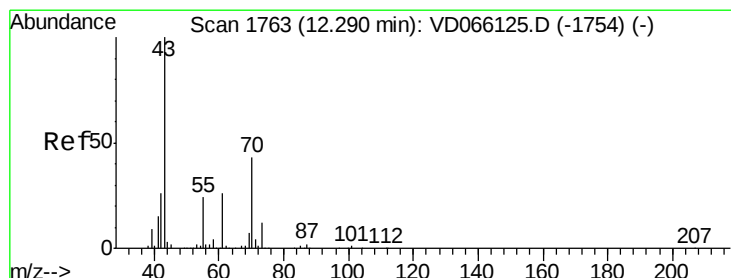
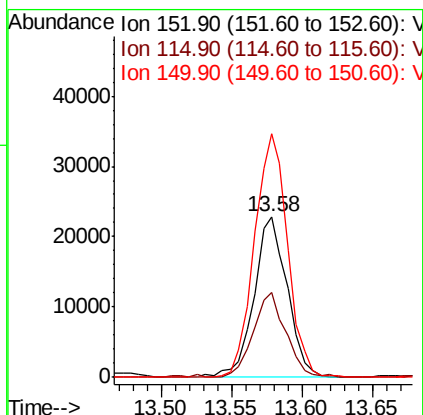
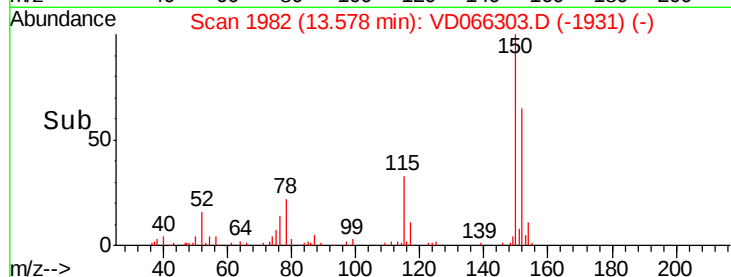
150 150.6 0.0 346.4



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



#74

N-ethyl acetate

Concen: 8.448 ug/l

RT: 12.27 min Scan# 1759

Delta R.T. -0.02 min

Lab File: VD066303.D

Acq: 19 Aug 2020 04:56

Tgt Ion: 43 Resp: 4705

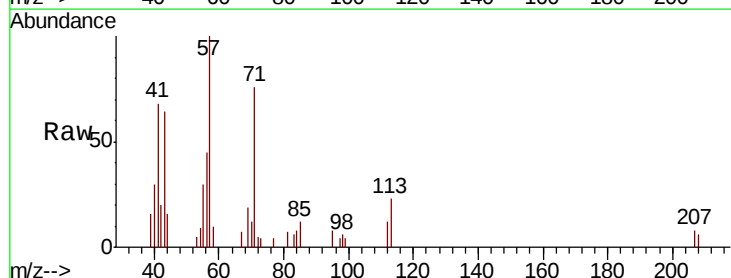
Ion Ratio Lower Upper

43 100

70 21.1 34.9 52.3#

55 0.0 19.2 28.8#

61 0.0 19.7 29.5#

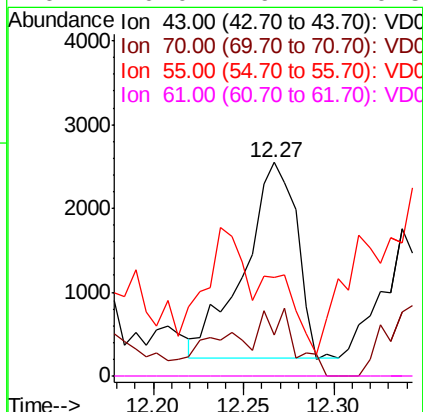
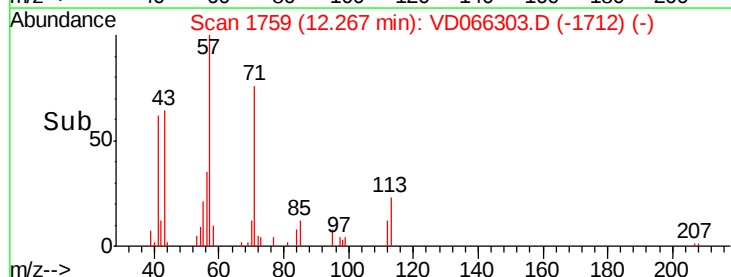


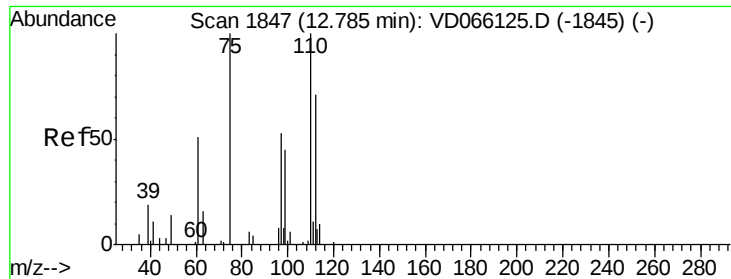
Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 61.00 (60.70 to 61.70): VDC

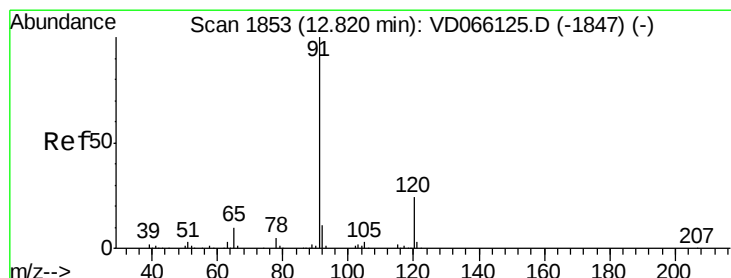
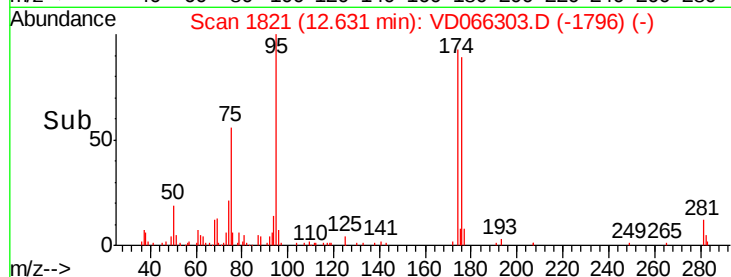
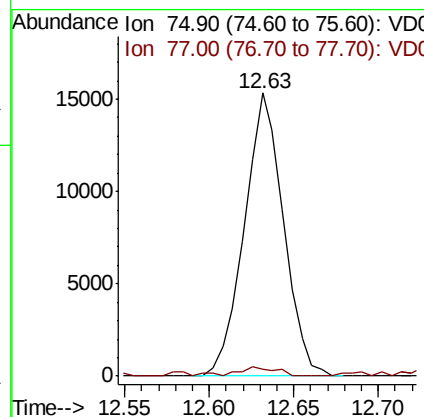
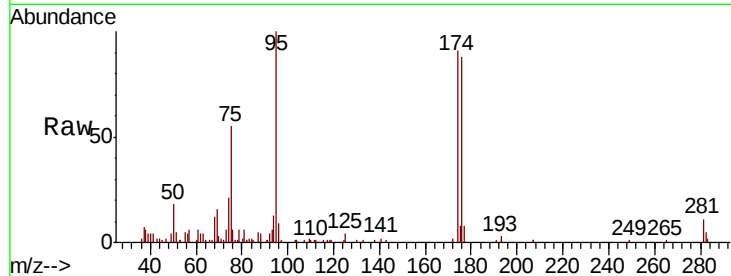




#76
 1,2,3-Trichloropropane
 Concen: 78.321 ug/l
 RT: 12.63 min Scan# 1821
 Delta R.T. -0.15 min
 Lab File: VD066303.D
 Acq: 19 Aug 2020 04:56

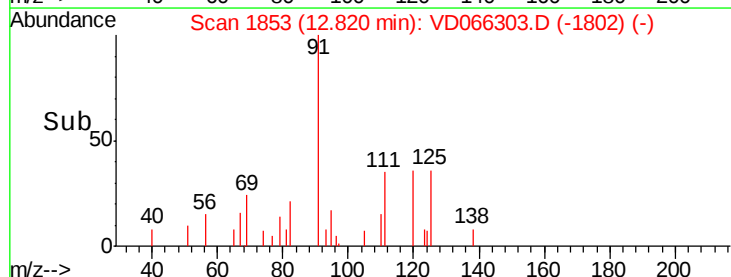
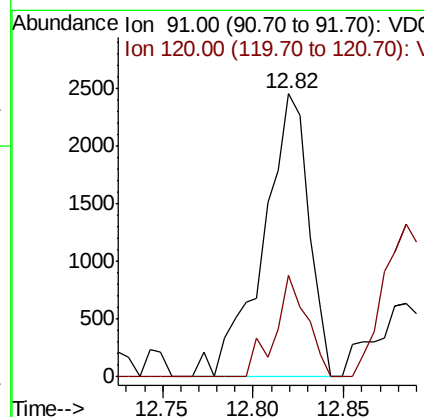
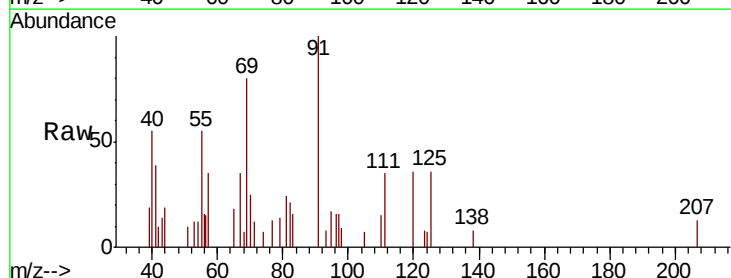
Instrument :
 MSVOA_D
 ClientSampleId :
 TP-5

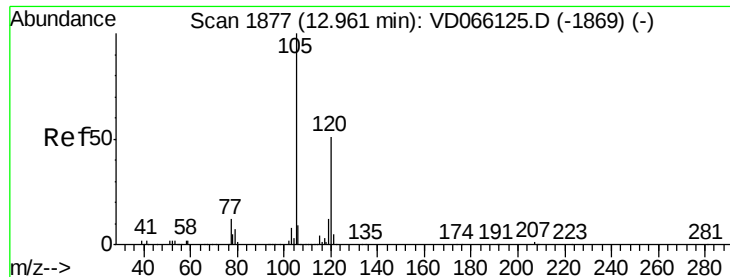
Tot Ion: 75 Resp: 24747
 Ion Ratio Lower Upper
 75 100
 77 2.9 0.0 0.0#



#78
 n-propylbenzene
 Concen: 1.465 ug/l
 RT: 12.82 min Scan# 1853
 Delta R.T. -0.00 min
 Lab File: VD066303.D
 Acq: 19 Aug 2020 04:56

Tgt Ion: 91 Resp: 4307
 Ion Ratio Lower Upper
 91 100
 120 25.4 12.0 36.0

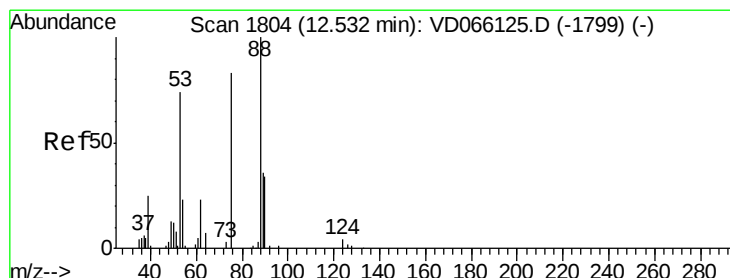
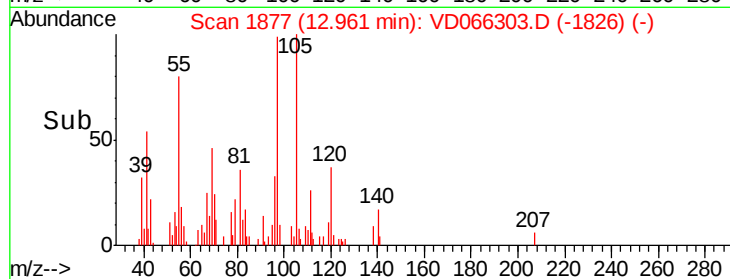
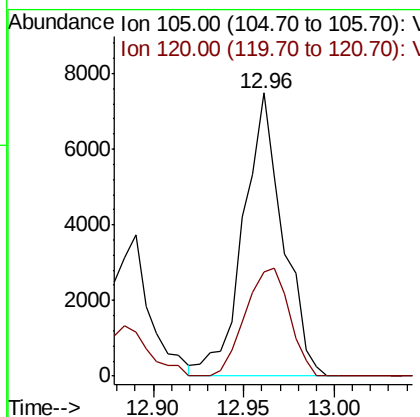
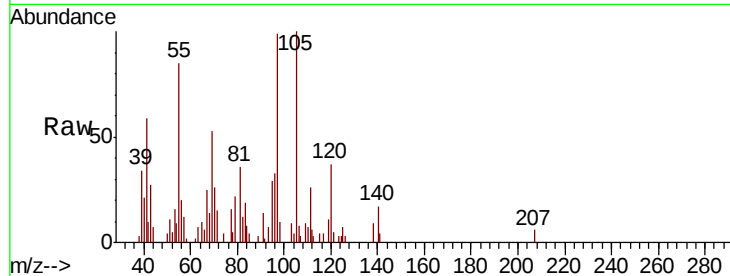




#80
 1,3,5-Trimethylbenzene
 Concen: 5.370 ug/l
 RT: 12.96 min Scan# 1877
 Delta R.T. -0.00 min
 Lab File: VD066303.D
 Acq: 19 Aug 2020 04:56

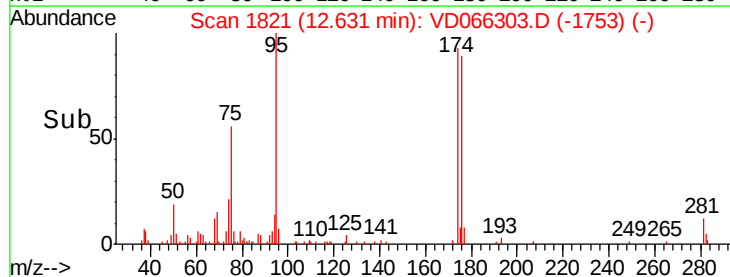
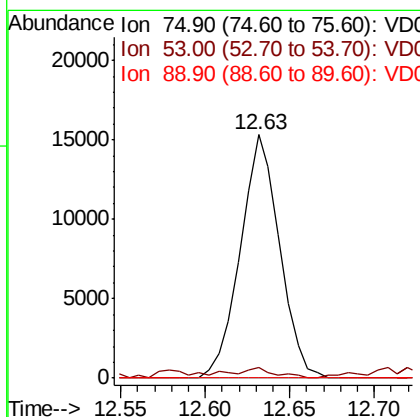
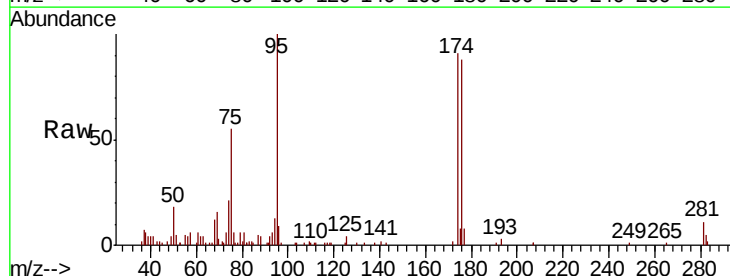
Instrument :
 MSVOA_D
 ClientSampleId :
 TP-5

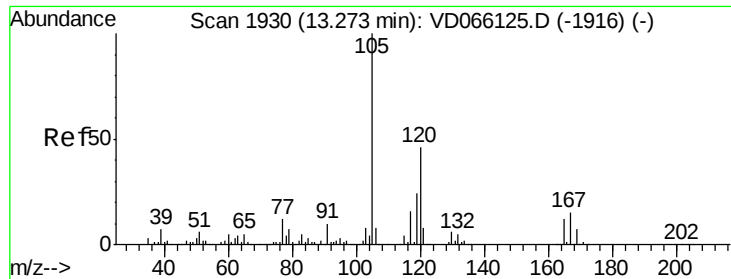
Tot Ion:105 Resp: 11358
 Ion Ratio Lower Upper
 105 100
 120 42.7 25.3 75.8



#81
 trans-1,4-Dichloro-2-butene
 Concen: 173.134 ug/l
 RT: 12.63 min Scan# 1821
 Delta R.T. 0.10 min
 Lab File: VD066303.D
 Acq: 19 Aug 2020 04:56

Tgt Ion: 75 Resp: 24747
 Ion Ratio Lower Upper
 75 100
 53 3.0 73.4 110.2#
 89 0.0 36.6 55.0#





#84

1,2,4-Trimethylbenzene

Concen: 12.545 ug/l

RT: 13.27 min Scan# 1929

Delta R.T. -0.01 min

Lab File: VD066303.D

Acq: 19 Aug 2020 04:56

Instrument :

MSVOA_D

ClientSampleId :

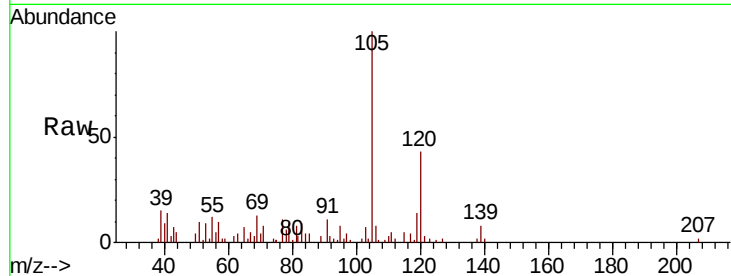
TP-5

Tot Ion:105 Resp: 26556

Ion Ratio Lower Upper

105 100

120 45.7 23.1 69.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

15000

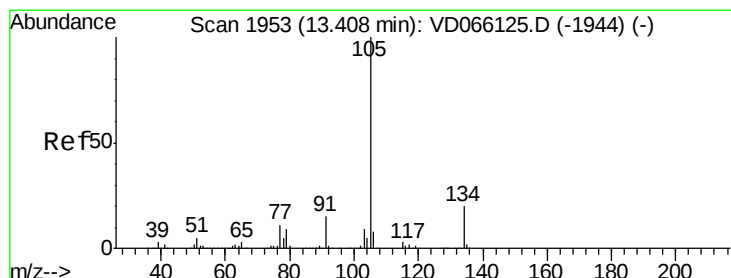
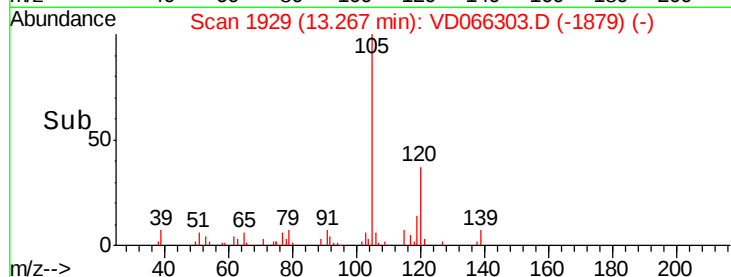
10000

5000

0

13.20 13.25 13.30

Time-->



#85

sec-Butylbenzene

Concen: 2.279 ug/l

RT: 13.41 min Scan# 1953

Delta R.T. -0.00 min

Lab File: VD066303.D

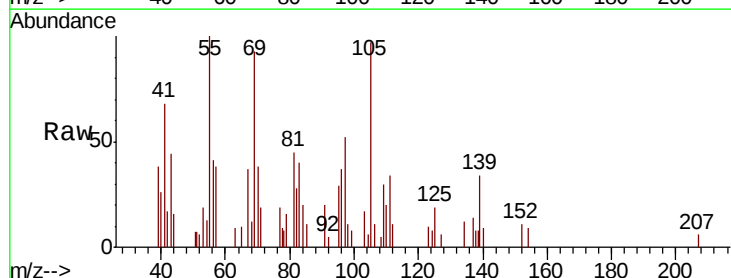
Acq: 19 Aug 2020 04:56

Tgt Ion:105 Resp: 5723

Ion Ratio Lower Upper

105 100

134 26.3 10.4 31.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

3000

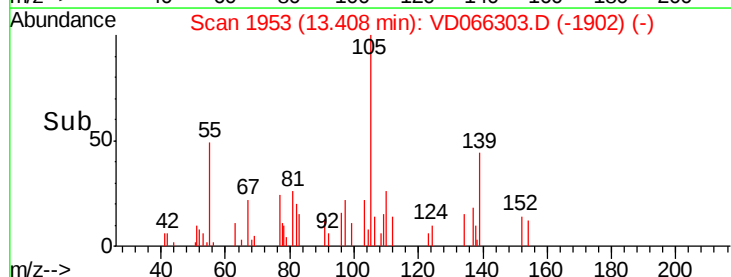
2000

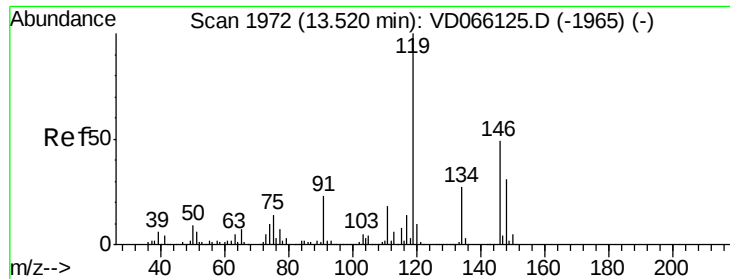
1000

0

13.35 13.40 13.45

Time-->

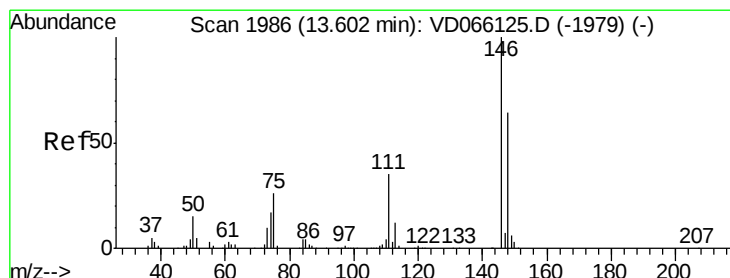
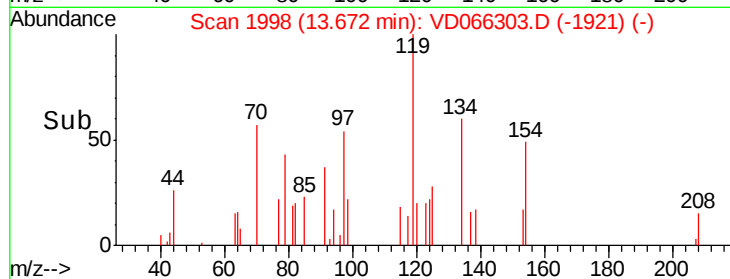
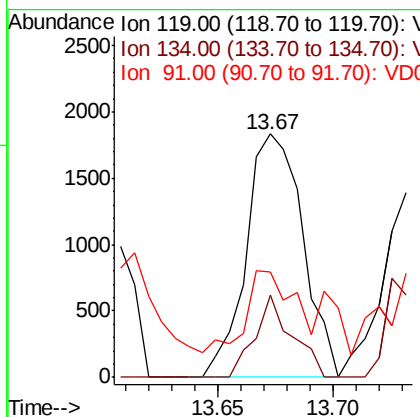
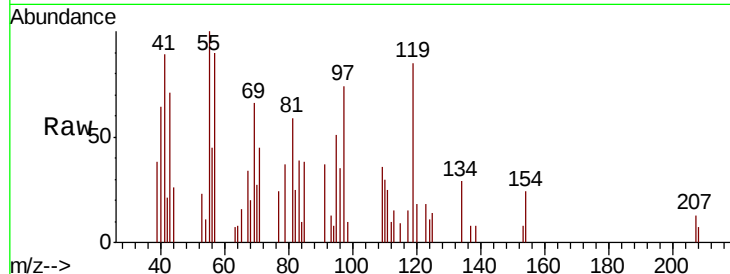




#86
p-Isopropyltoluene
Concen: 1.324 ug/l
RT: 13.67 min Scan# 1998
Delta R.T. 0.15 min
Lab File: VD066303.D
Acq: 19 Aug 2020 04:56

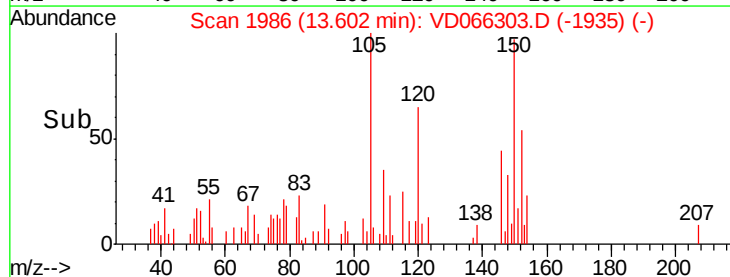
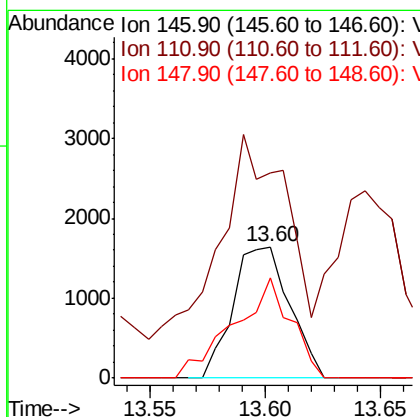
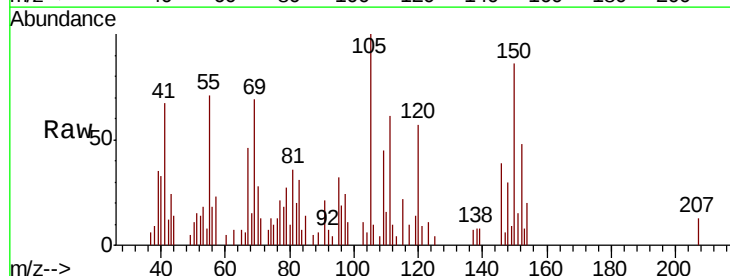
Instrument :
MSVOA_D
ClientSampleId :
TP-5

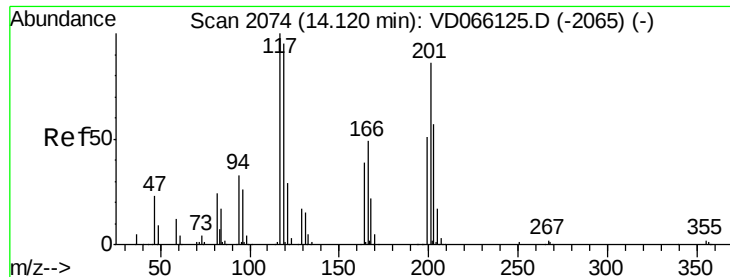
Tot Ion:119 Resp: 3119
Ion Ratio Lower Upper
119 100
134 22.2 13.5 40.4
91 28.4 11.2 33.5



#88
1,4-Dichlorobenzene
Concen: 2.302 ug/l
RT: 13.60 min Scan# 1986
Delta R.T. -0.00 min
Lab File: VD066303.D
Acq: 19 Aug 2020 04:56

Tgt Ion:146 Resp: 2809
Ion Ratio Lower Upper
146 100
111 187.1 18.6 55.8#
148 76.3 32.4 97.0





#90

Hexachloroethane

Concen: 6.256 ug/l

RT: 14.12 min Scan# 2074

Delta R.T. -0.00 min

Lab File: VD066303.D

Acq: 19 Aug 2020 04:56

Instrument :

MSVOA_D

ClientSampled :

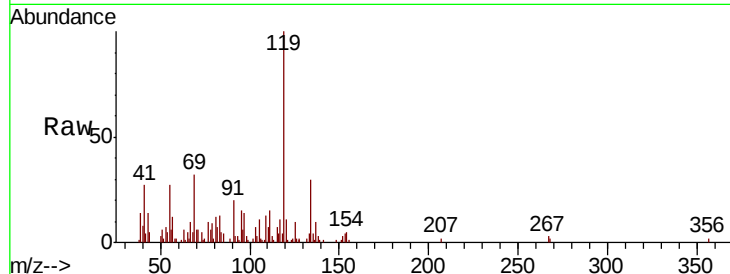
TP-5

Tot Ion:117 Resp: 2939

Ion Ratio Lower Upper

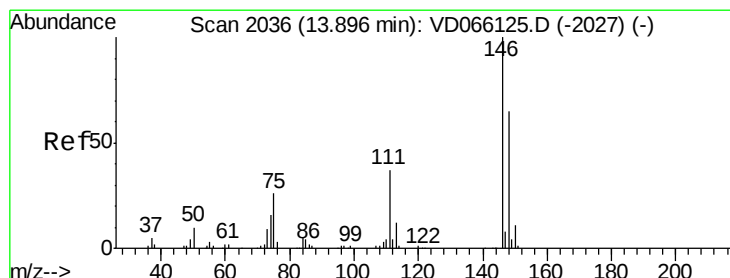
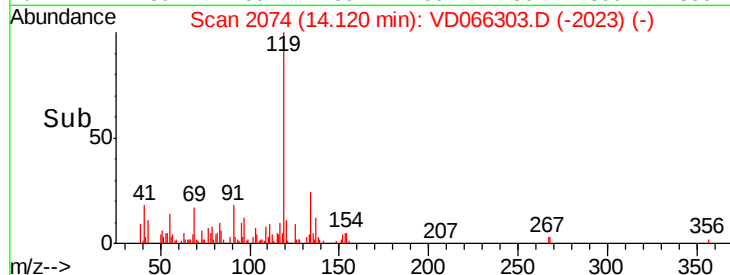
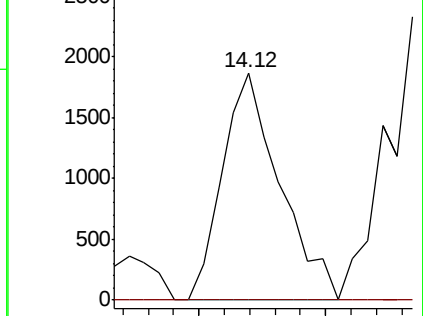
117 100

201 0.0 42.7 128.1#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#91

1,2-Dichlorobenzene

Concen: 8.213 ug/l

RT: 13.90 min Scan# 2036

Delta R.T. -0.00 min

Lab File: VD066303.D

Acq: 19 Aug 2020 04:56

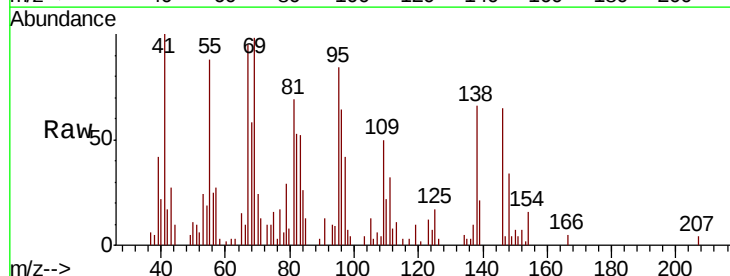
Tgt Ion:146 Resp: 8888

Ion Ratio Lower Upper

146 100

111 104.9 18.8 56.3#

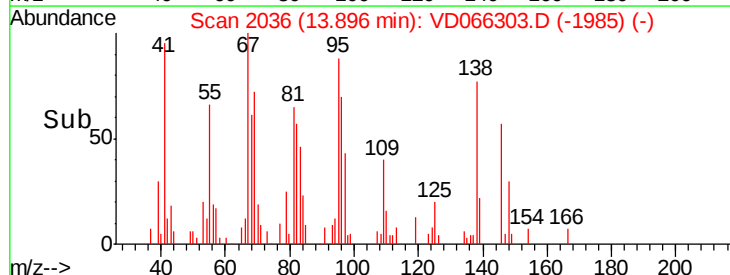
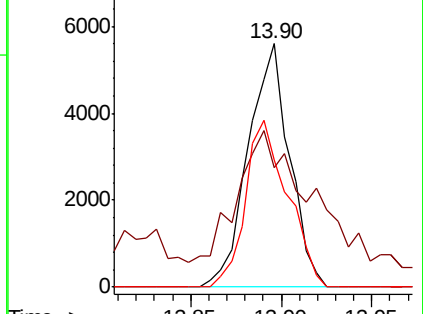
148 69.7 31.9 95.5

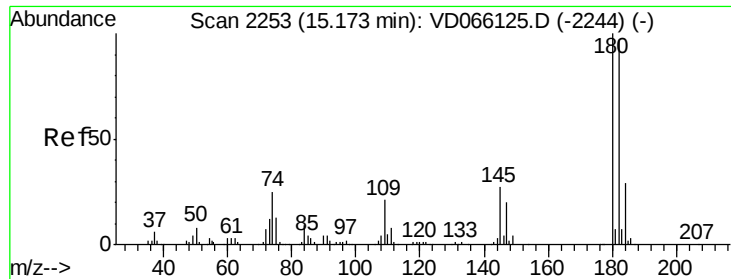


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

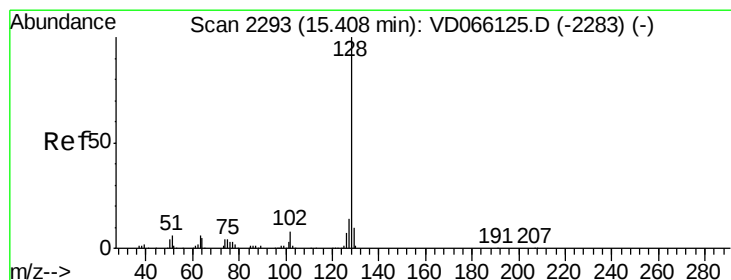
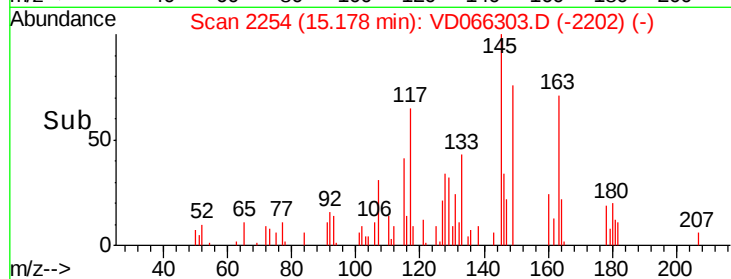
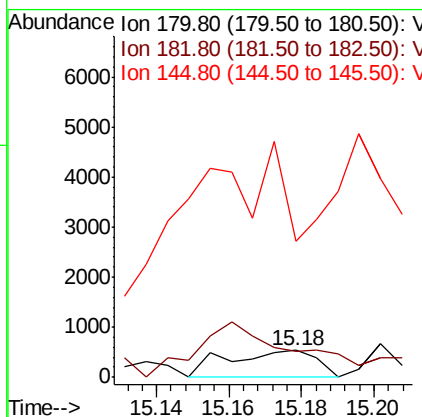
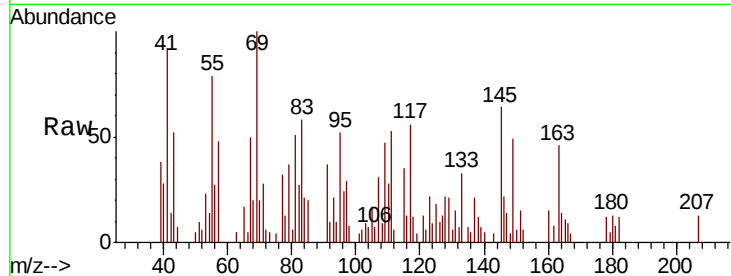




#93
 1,2,4-Trichlorobenzene
 Concen: 1.155 ug/l
 RT: 15.18 min Scan# 2254
 Delta R.T. 0.01 min
 Lab File: VD066303.D
 Acq: 19 Aug 2020 04:56

Instrument :
 MSVOA_D
 ClientSampleId :
 TP-5

Tot Ion:180 Resp: 921
 Ion Ratio Lower Upper
 180 100
 182 0.0 47.4 142.2#
 145 0.0 14.5 43.6#



#95
 Naphthalene
 Concen: 2.882 ug/l
 RT: 15.40 min Scan# 2291
 Delta R.T. -0.01 min
 Lab File: VD066303.D
 Acq: 19 Aug 2020 04:56

Tgt Ion:128 Resp: 3745
 Ion Ratio Lower Upper
 128 100
 127 6.1 11.0 16.4#
 129 0.0 8.8 13.2#

