

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD032719\NOT REVIEWED DATA\VD032719\
 Data File : VD061363.D
 Acq On : 27 Mar 2019 19:47
 Operator : VA/AP
 Sample : K2086-06
 Misc : 5.04g/5ml/MSVOA D/SOIL
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 CS-16RE

Quant Time: Mar 28 04:03:56 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D032719S.M
 Quant Title : SW846 8260
 QLast Update : Thu Mar 28 02:13:53 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.02	168	11155	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.19	114	22909	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.35	117	17075	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.50	152	6245	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.43	65	7597	79.72	ug/l	0.00
Spiked Amount	50.000		Recovery	=	159.44%	
35) Dibromofluoromethane	6.88	113	8471	48.39	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	96.78%	
50) Toluene-d8	10.38	98	15680	37.34	ug/l	0.00
Spiked Amount	50.000		Recovery	=	74.68%	
62) 4-Bromofluorobenzene	13.54	95	6154	38.22	ug/l	0.00
Spiked Amount	50.000		Recovery	=	76.44%	

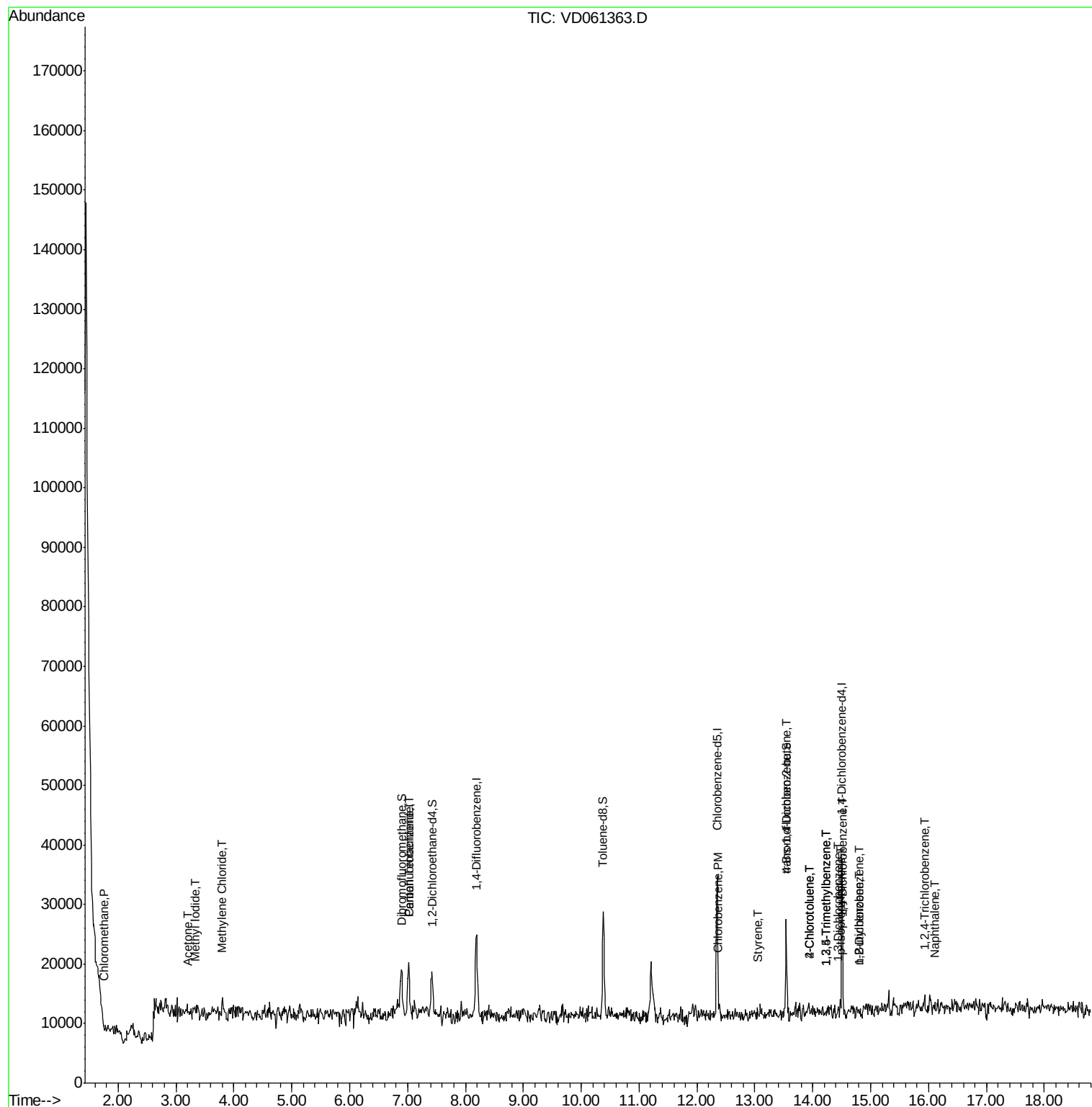
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.76	50	221	2.275	ug/l #	42
10) Methyl Iodide	3.33	142	2923	16.297	ug/l #	90
16) Acetone	3.21	43	204	8.328	ug/l #	48
20) Methylene Chloride	3.80	84	665	3.043	ug/l #	48
38) Carbon Tetrachloride	7.01	117	402	1.766	ug/l #	10
65) Chlorobenzene	12.38	112	802	2.298	ug/l #	41
70) Styrene	13.06	104	414	1.213	ug/l #	33
79) 2-Chlorotoluene	13.93	91	1103	3.819	ug/l	74
80) 1,3,5-Trimethylbenzene	14.22	105	537	1.471	ug/l #	31
81) trans-1,4-Dichloro-2-buten	13.54	75	1951	70.932	ug/l #	18
82) 4-Chlorotoluene	13.93	91	1103	3.512	ug/l	75
84) 1,2,4-Trimethylbenzene	14.22	105	537	1.471	ug/l #	31
86) p-Isopropyltoluene	14.47	119	527	1.392	ug/l #	52
87) 1,3-Dichlorobenzene	14.44	146	746	3.419	ug/l #	64
88) 1,4-Dichlorobenzene	14.52	146	951	4.469	ug/l #	61
89) n-Butylbenzene	14.79	91	631	1.816	ug/l #	29
91) 1,2-Dichlorobenzene	14.79	146	481	2.687	ug/l #	24
93) 1,2,4-Trichlorobenzene	15.93	180	403	4.943	ug/l #	86
95) Naphthalene	16.11	128	1121	9.020	ug/l #	70

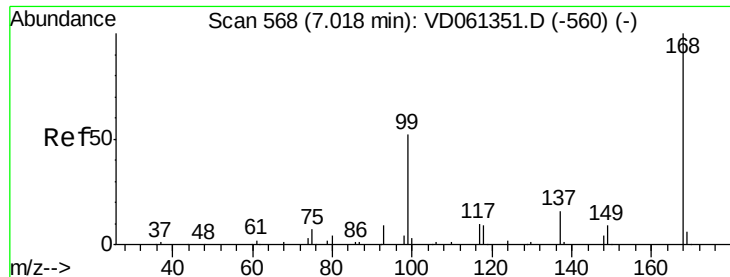
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.02 min Scan# 569

Delta R.T. 0.00 min

Lab File: VD061363.D

Acq: 27 Mar 2019 19:47

Instrument :

MSVOA_D

ClientSampleId :

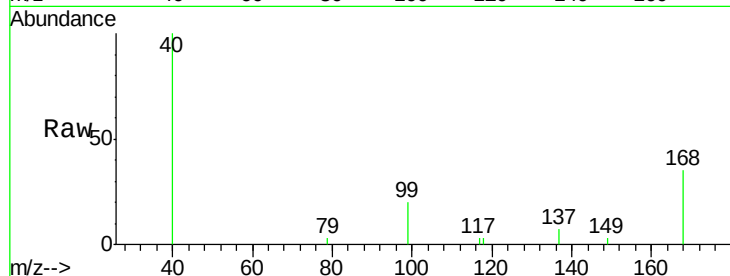
CS-16RE

Tot Ion:168 Resp: 11155

Ion Ratio Lower Upper

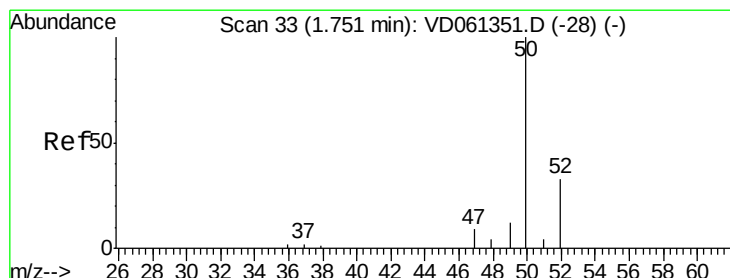
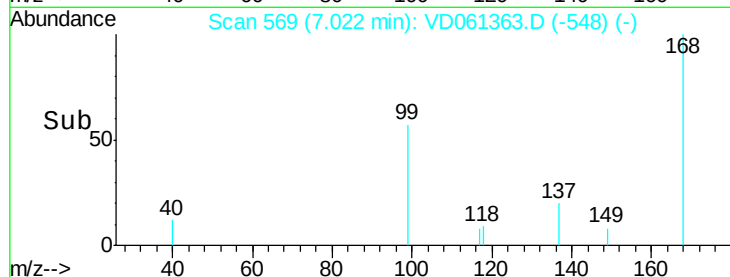
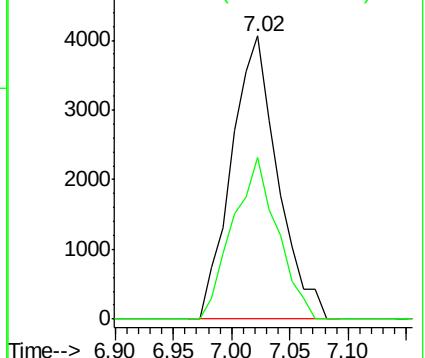
168 100

99 57.0 43.1 64.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#3

Chloromethane

Concen: 2.275 ug/l

RT: 1.76 min Scan# 34

Delta R.T. 0.00 min

Lab File: VD061363.D

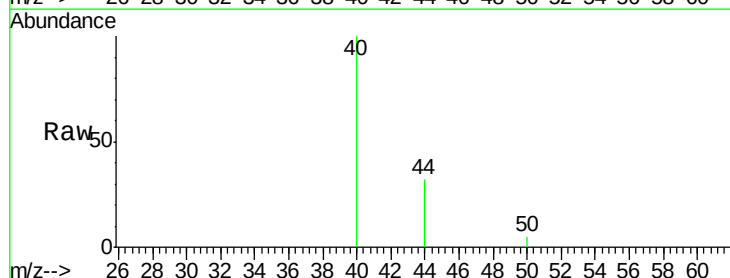
Acq: 27 Mar 2019 19:47

Tgt Ion: 50 Resp: 221

Ion Ratio Lower Upper

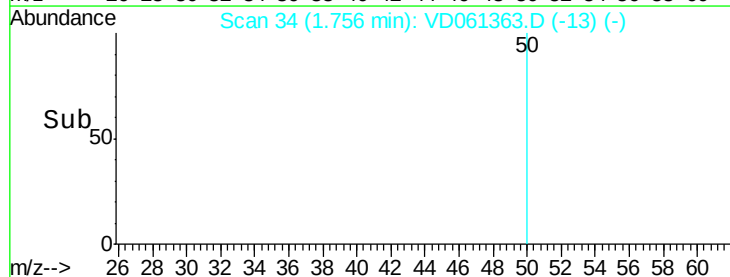
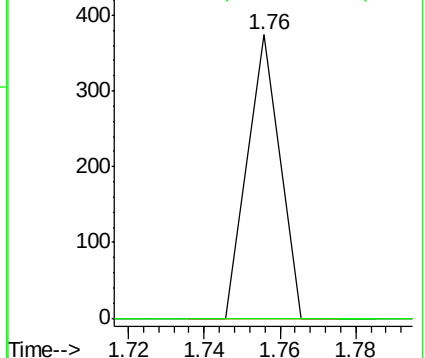
50 100

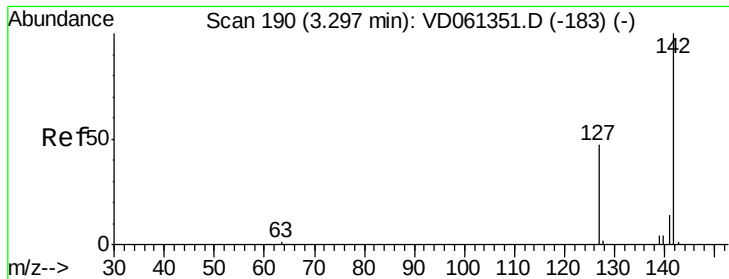
52 0.0 26.1 39.1#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC

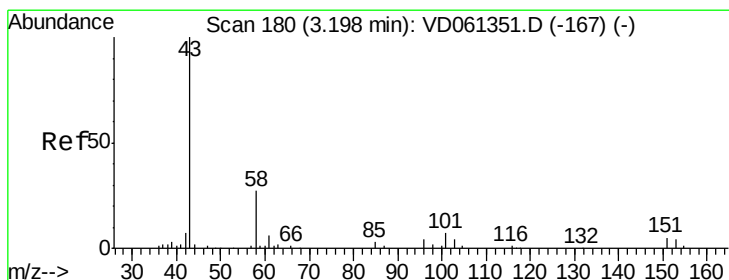
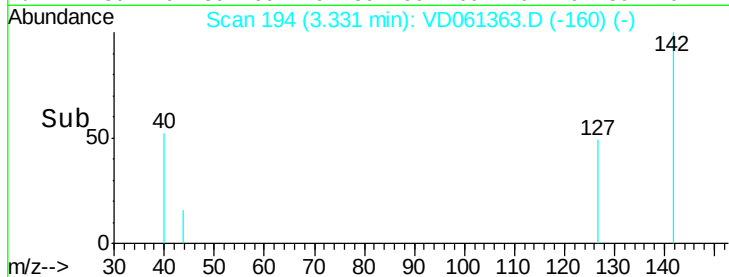
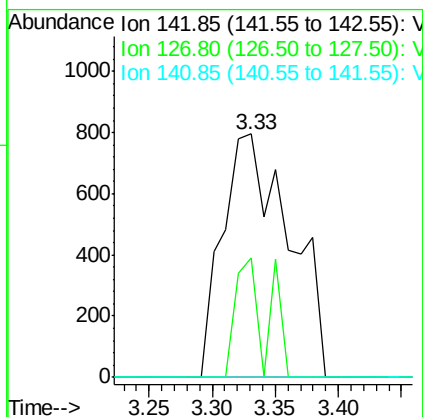
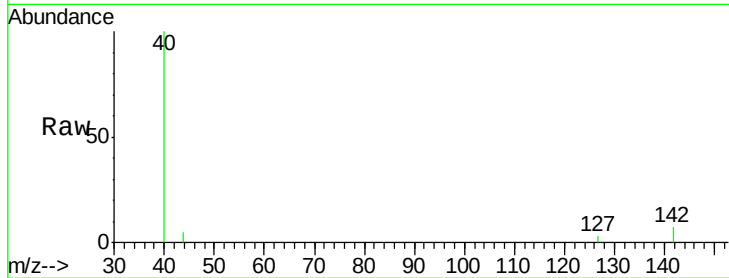




#10
Methyl Iodide
Concen: 16.297 ug/l
RT: 3.33 min Scan# 194
Delta R.T. 0.03 min
Lab File: VD061363.D
Acq: 27 Mar 2019 19:47

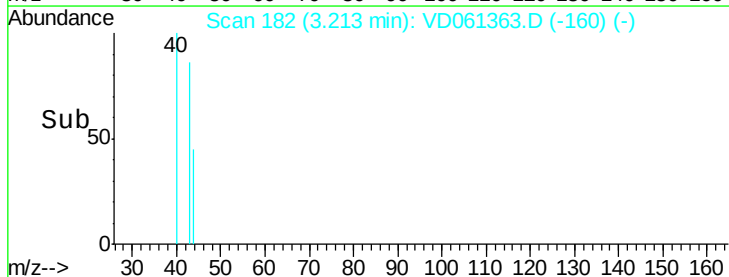
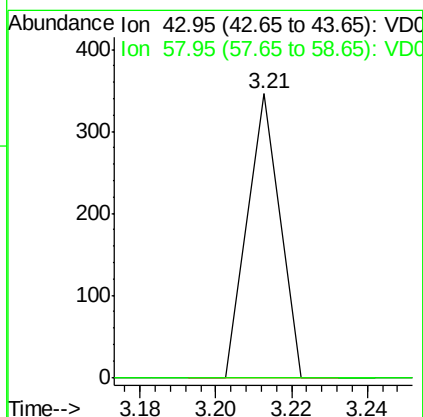
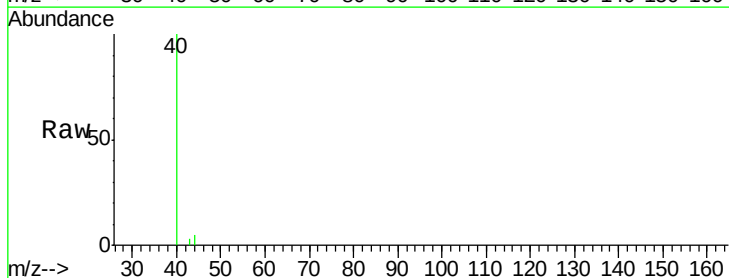
Instrument :
MSVOA_D
ClientSampleId :
CS-16RE

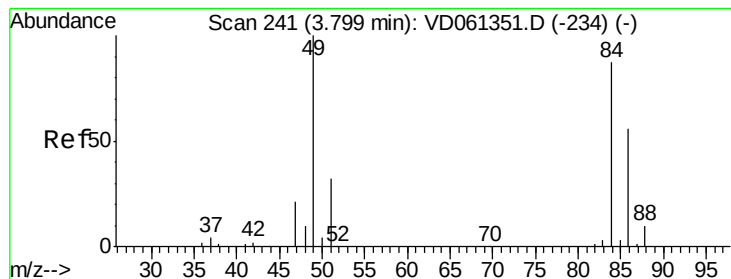
Tot Ion:142 Resp: 2923
Ion Ratio Lower Upper
142 100
127 49.0 37.7 56.5
141 0.0 11.5 17.3#



#16
Acetone
Concen: 8.328 ug/l
RT: 3.21 min Scan# 182
Delta R.T. 0.01 min
Lab File: VD061363.D
Acq: 27 Mar 2019 19:47

Tgt Ion: 43 Resp: 204
Ion Ratio Lower Upper
43 100
58 0.0 21.5 32.3#





#20

Methylene Chloride

Concen: 3.043 ug/l

RT: 3.80 min Scan# 242

Delta R.T. 0.01 min

Lab File: VD061363.D

Acq: 27 Mar 2019 19:47

Instrument :

MSVOA_D

ClientSampleId :

CS-16RE

Tot Ion: 84 Resp: 665

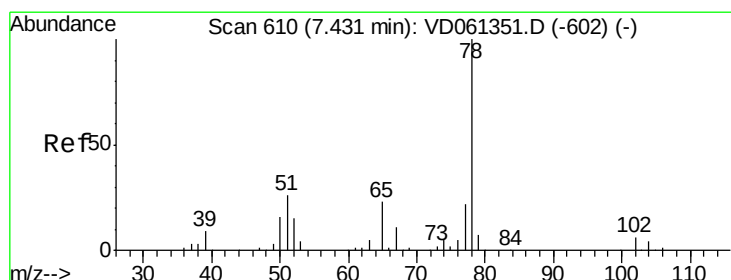
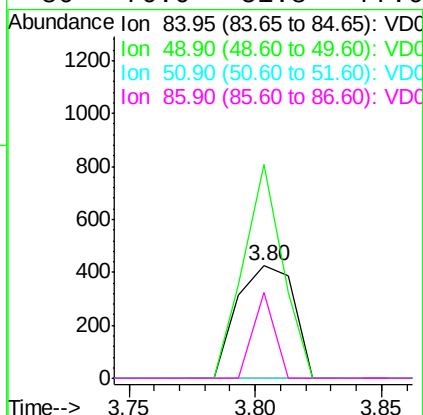
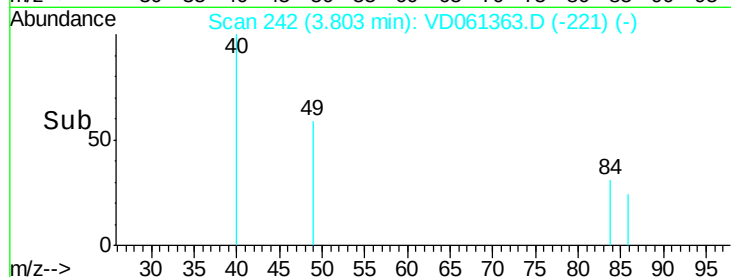
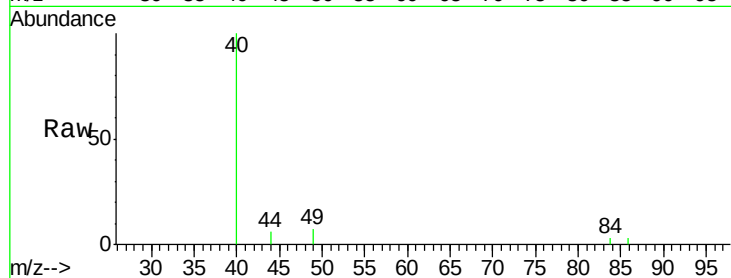
Ion Ratio Lower Upper

84 100

49 189.9 91.8 137.8#

51 0.0 29.8 44.8#

86 76.0 51.8 77.6



#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 7.43 min Scan# 610

Delta R.T. -0.01 min

Lab File: VD061363.D

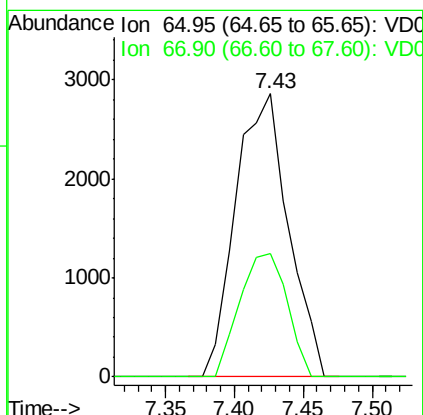
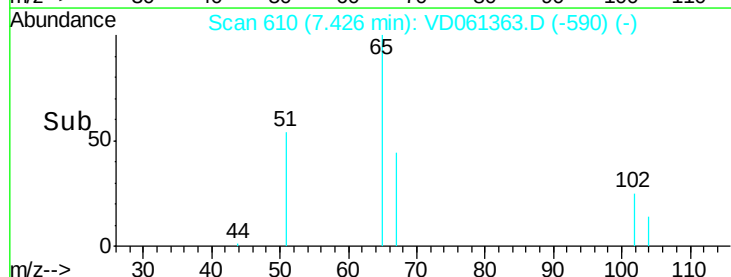
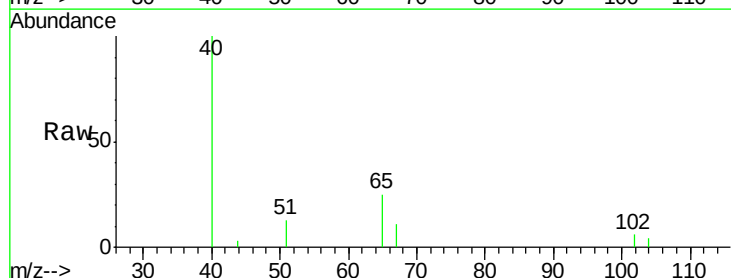
Acq: 27 Mar 2019 19:47

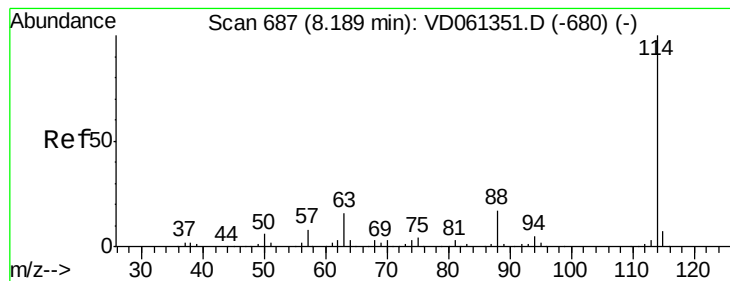
Tgt Ion: 65 Resp: 7597

Ion Ratio Lower Upper

65 100

67 43.7 0.0 99.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.19 min Scan# 688

Delta R.T. 0.00 min

Lab File: VD061363.D

Acq: 27 Mar 2019 19:47

Instrument :

MSVOA_D

ClientSampleId :

CS-16RE

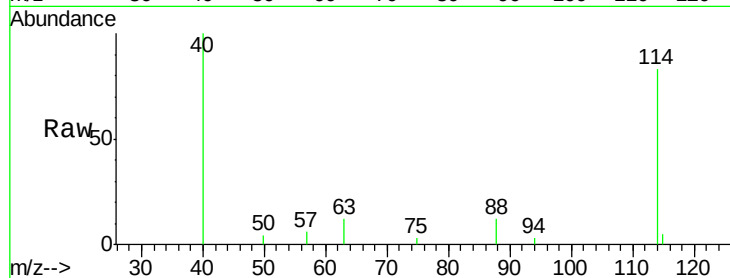
Tot Ion:114 Resp: 22909

Ion Ratio Lower Upper

114 100

63 14.4 0.0 31.6

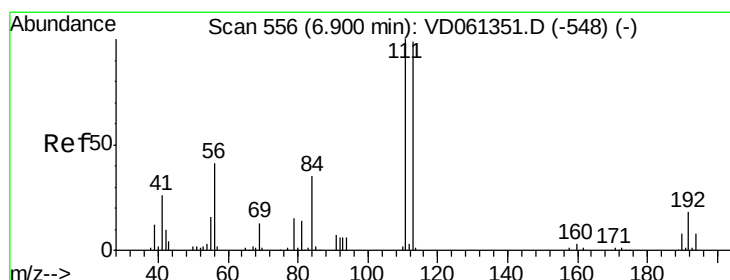
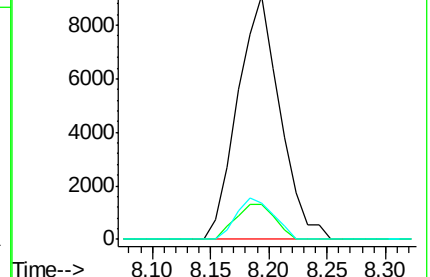
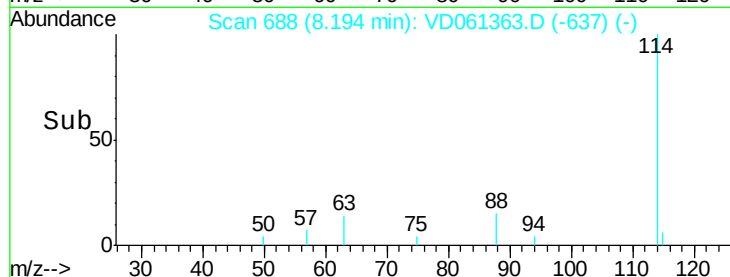
88 14.9 0.0 33.4



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): V

Ion 87.90 (87.60 to 88.60): V



#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 6.88 min Scan# 555

Delta R.T. -0.02 min

Lab File: VD061363.D

Acq: 27 Mar 2019 19:47

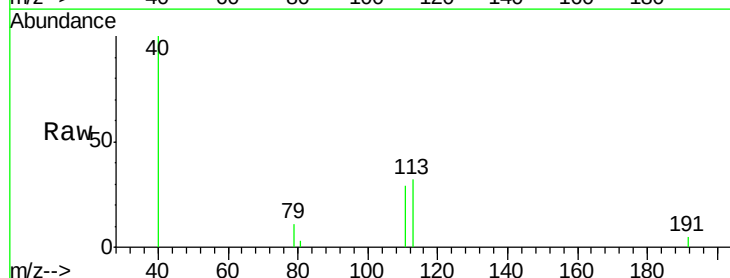
Tgt Ion:113 Resp: 8471

Ion Ratio Lower Upper

113 100

111 89.5 81.0 121.6

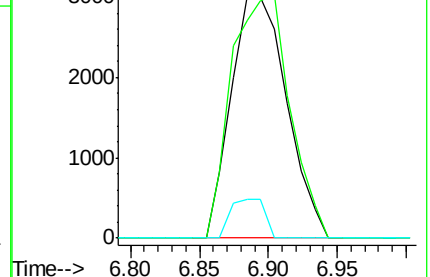
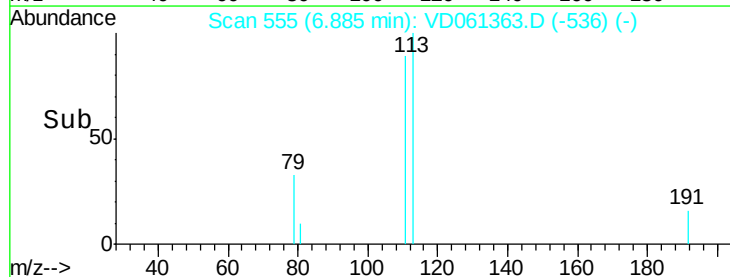
192 15.8 14.4 21.6

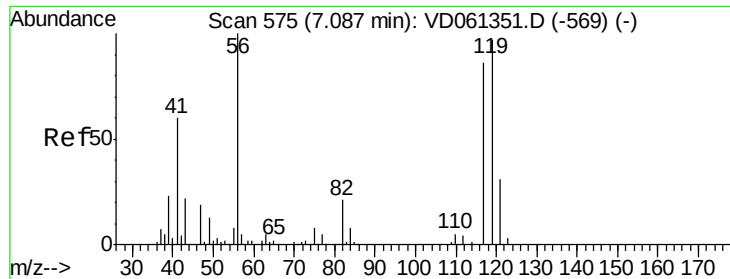


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V





#38

Carbon Tetrachloride

Concen: 1.766 ug/l

RT: 7.01 min Scan# 568

Delta R.T. -0.07 min

Lab File: VD061363.D

Acq: 27 Mar 2019 19:47

Instrument :

MSVOA_D

ClientSampleId :

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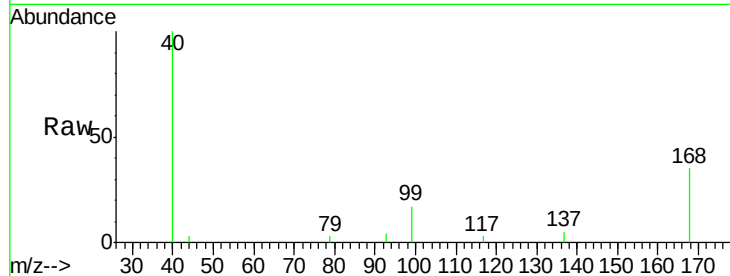
Tot Ion:117 Resp: 402

Ion Ratio Lower Upper

117 100

119 0.0 80.1 120.1#

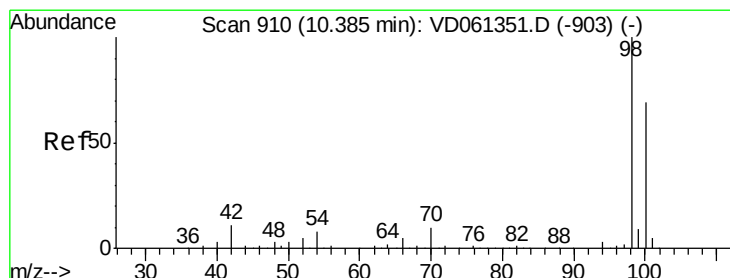
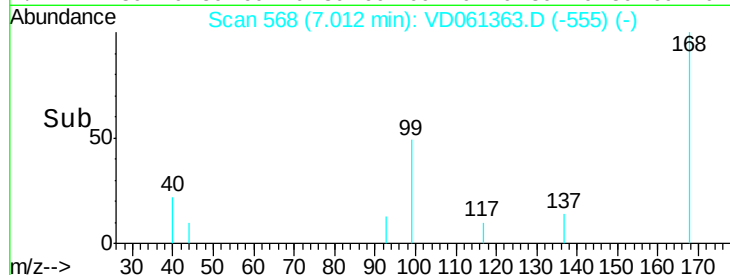
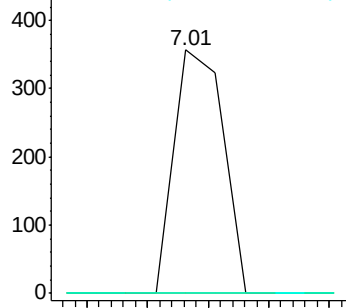
121 0.0 25.6 38.4#



Abundance Ion 116.85 (116.55 to 117.55): V

Ion 118.85 (118.55 to 119.55): V

Ion 120.85 (120.55 to 121.55): V



#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.38 min Scan# 910

Delta R.T. -0.01 min

Lab File: VD061363.D

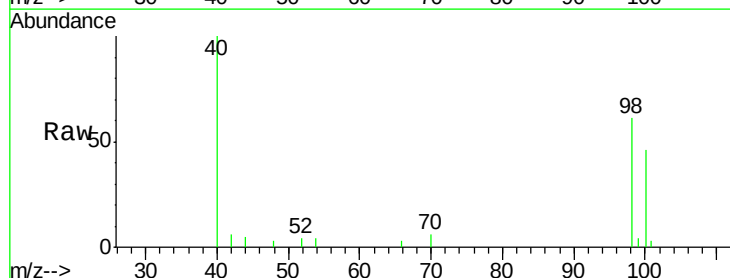
Acq: 27 Mar 2019 19:47

Tgt Ion: 98 Resp: 15680

Ion Ratio Lower Upper

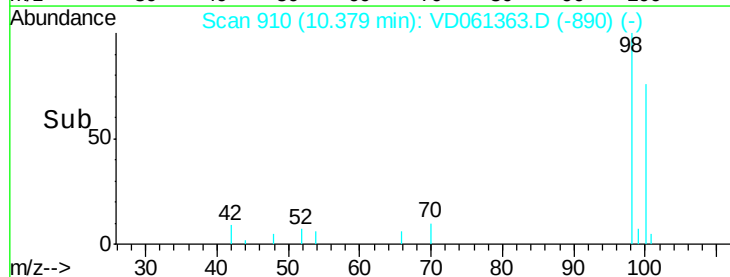
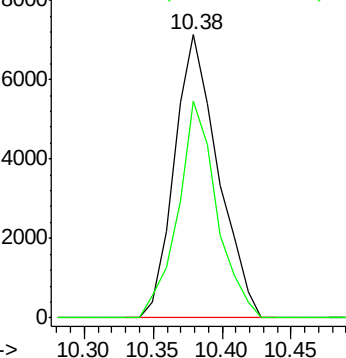
98 100

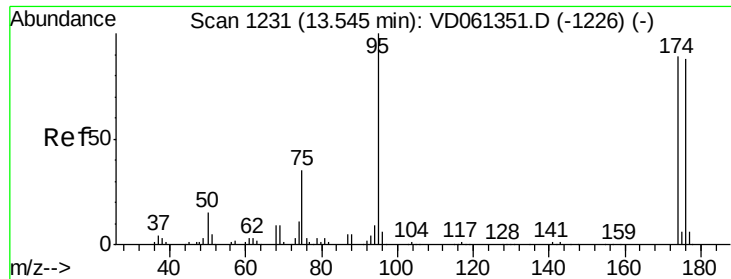
100 76.4 56.2 84.2



Abundance Ion 98.05 (97.75 to 98.75): V

Ion 100.05 (99.75 to 100.75): V

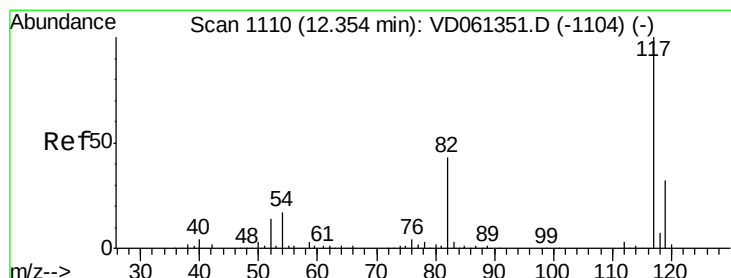
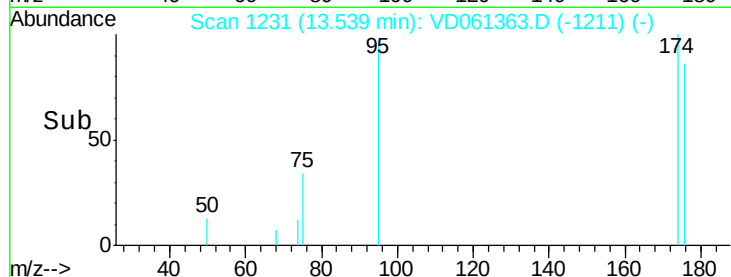
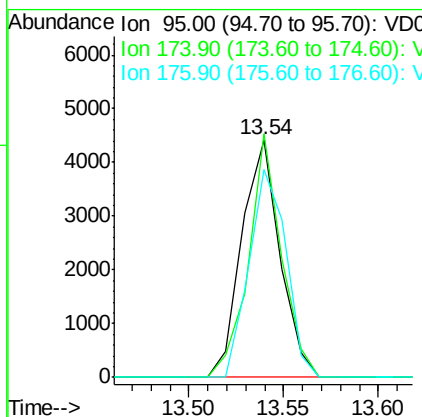
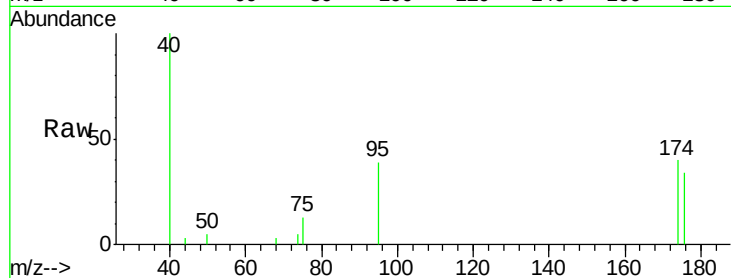




#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 13.54 min Scan# 1231
Delta R.T. -0.01 min
Lab File: VD061363.D
Acq: 27 Mar 2019 19:47

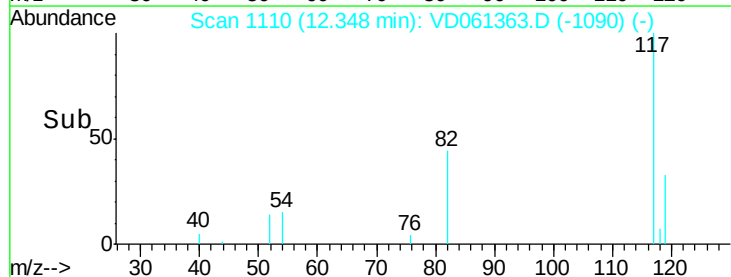
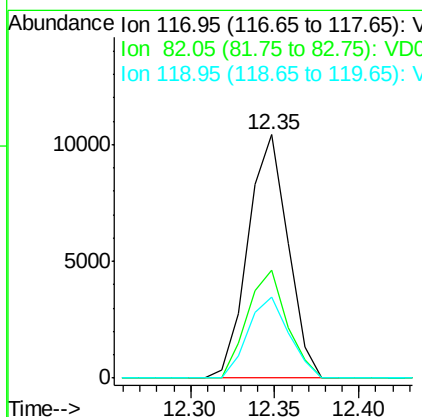
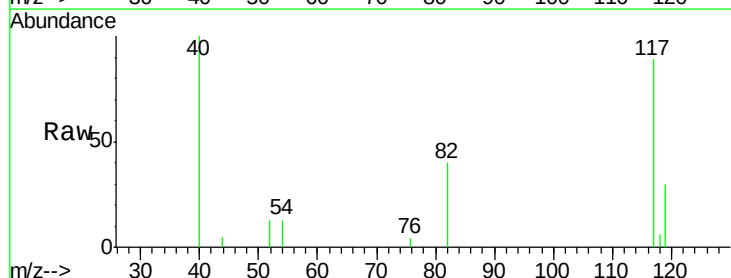
Instrument :
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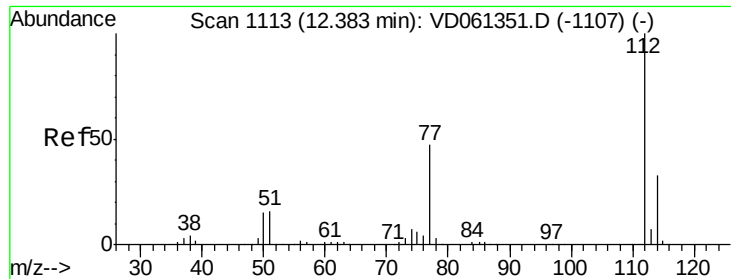
Tot Ion: 95 Resp: 6154
Ion Ratio Lower Upper
95 100
174 102.6 0.0 178.0
176 87.7 0.0 175.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.35 min Scan# 1110
Delta R.T. -0.01 min
Lab File: VD061363.D
Acq: 27 Mar 2019 19:47

Tgt Ion: 117 Resp: 17075
Ion Ratio Lower Upper
117 100
82 44.5 34.4 51.6
119 33.1 25.8 38.6

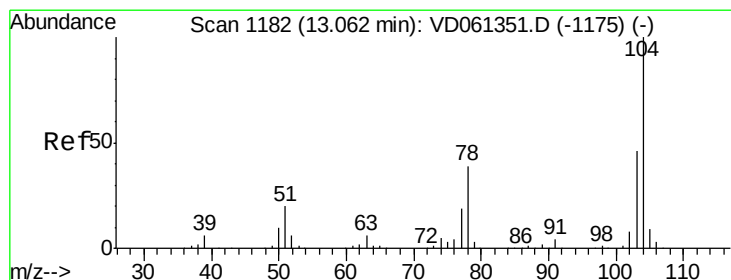
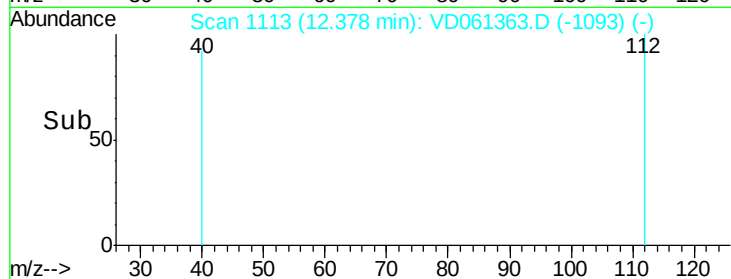
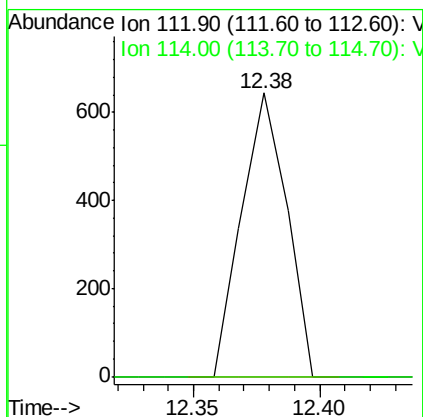
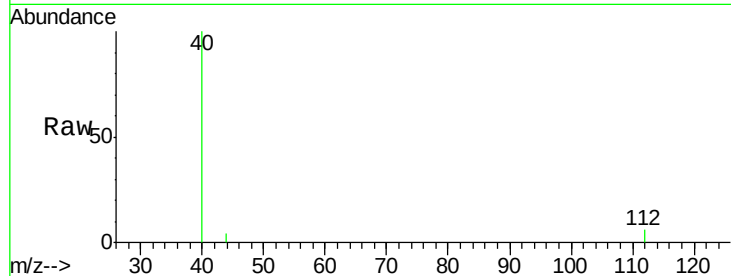




#65
Chlorobenzene
Concen: 2.298 ug/l
RT: 12.38 min Scan# 1113
Delta R.T. -0.01 min
Lab File: VD061363.D
Acq: 27 Mar 2019 19:47

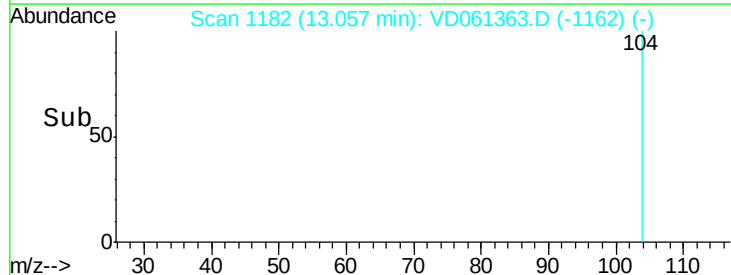
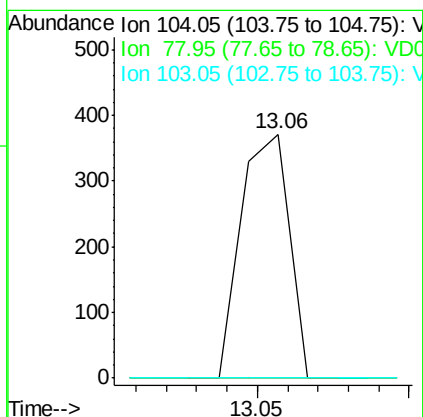
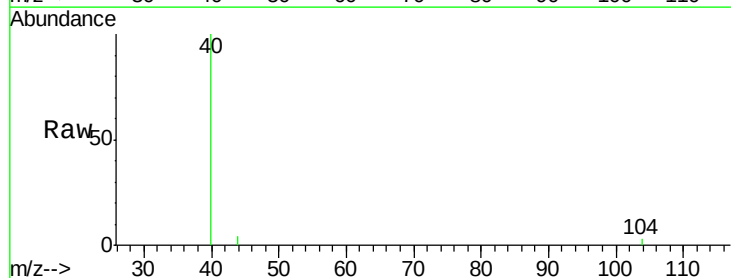
Instrument :
MSVOA_D
ClientSampleId :
CS-16RE

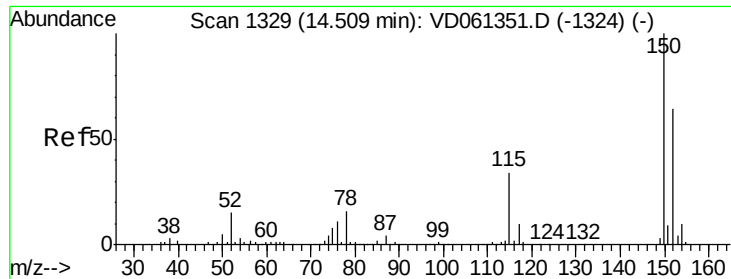
Tot Ion:112 Resp: 802
Ion Ratio Lower Upper
112 100
114 0.0 26.6 39.8#



#70
Styrene
Concen: 1.213 ug/l
RT: 13.06 min Scan# 1182
Delta R.T. -0.01 min
Lab File: VD061363.D
Acq: 27 Mar 2019 19:47

Tgt Ion:104 Resp: 414
Ion Ratio Lower Upper
104 100
78 0.0 31.0 46.6#
103 0.0 37.0 55.4#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.50 min Scan# 1329

Delta R.T. -0.01 min

Lab File: VD061363.D

Acq: 27 Mar 2019 19:47

Instrument :

MSVOA_D

ClientSampleId :

CS-16RE

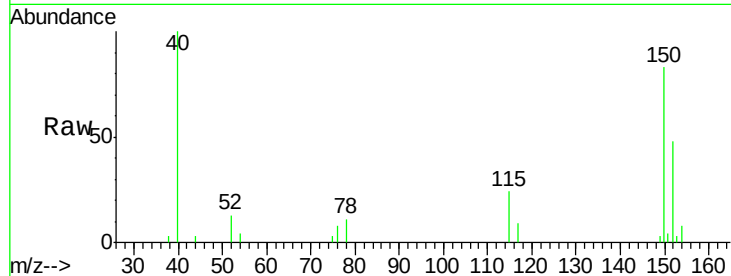
Tot Ion:152 Resp: 6245

Ion Ratio Lower Upper

152 100

115 49.8 26.9 80.6

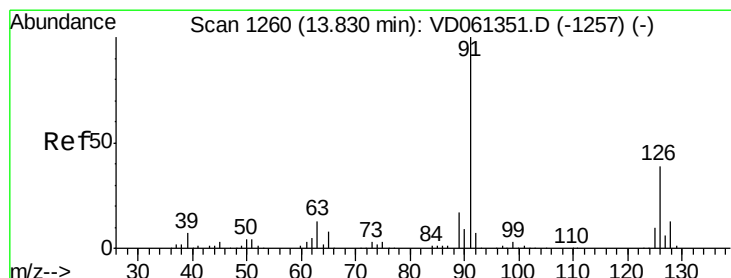
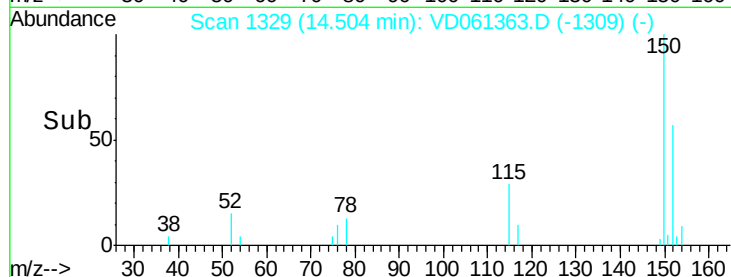
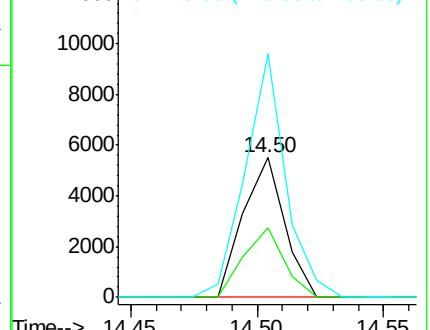
150 174.6 0.0 318.0



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 115.00 (114.70 to 115.70): V

Ion 149.90 (149.60 to 150.60): V



#79

2-Chlorotoluene

Concen: 3.819 ug/l

RT: 13.93 min Scan# 1271

Delta R.T. 0.10 min

Lab File: VD061363.D

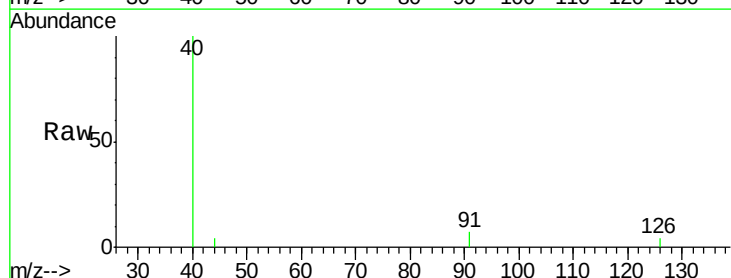
Acq: 27 Mar 2019 19:47

Tgt Ion: 91 Resp: 1103

Ion Ratio Lower Upper

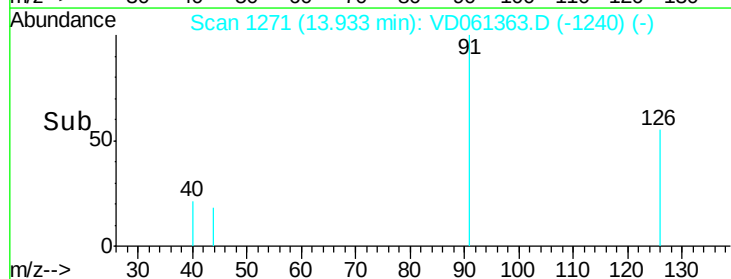
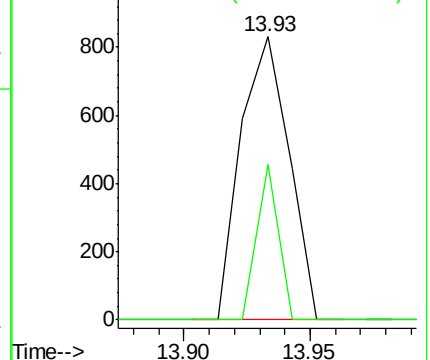
91 100

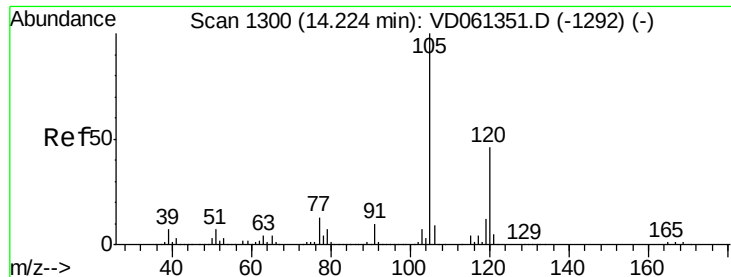
126 54.8 19.4 58.2



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 125.95 (125.65 to 126.65): V





#80

1,3,5-Trimethylbenzene

Concen: 1.471 ug/l

RT: 14.22 min Scan# 1300

Delta R.T. -0.01 min

Lab File: VD061363.D

Acq: 27 Mar 2019 19:47

Instrument :

MSVOA_D

ClientSampleId :

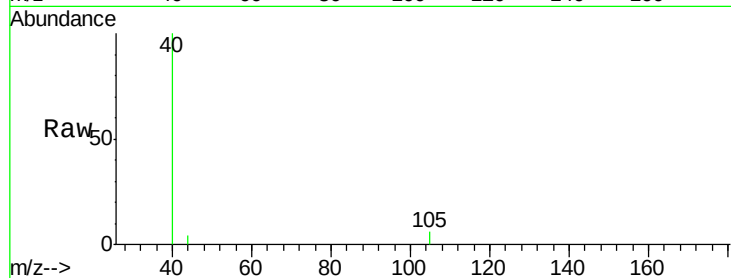
CS-16RE

Tot Ion:105 Resp: 537

Ion Ratio Lower Upper

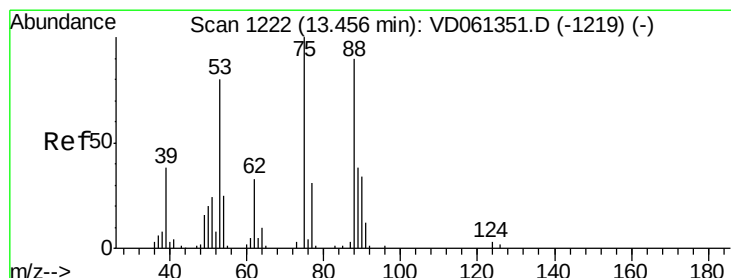
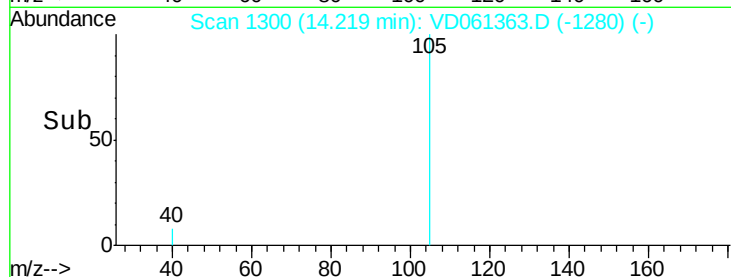
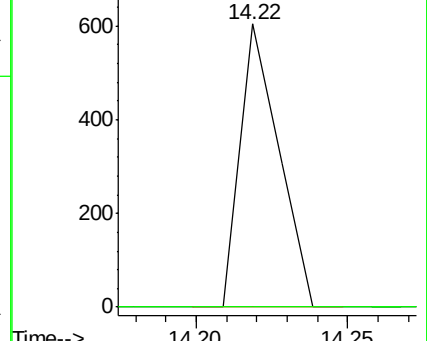
105 100

120 0.0 22.8 68.4#



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V



#81

trans-1,4-Dichloro-2-butene

Concen: 70.932 ug/l

RT: 13.54 min Scan# 1231

Delta R.T. 0.08 min

Lab File: VD061363.D

Acq: 27 Mar 2019 19:47

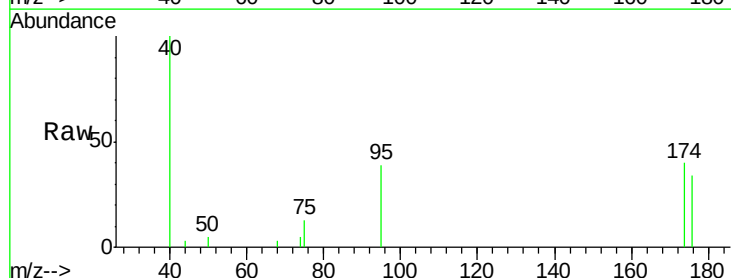
Tgt Ion: 75 Resp: 1951

Ion Ratio Lower Upper

75 100

53 0.0 63.8 95.8#

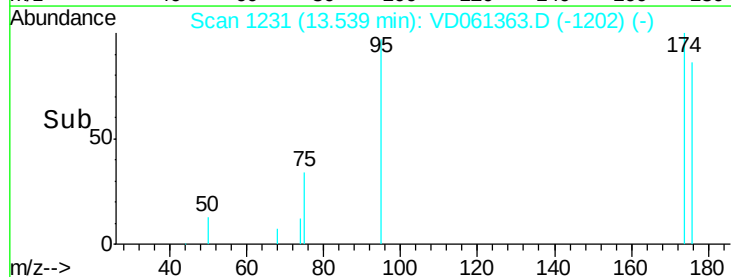
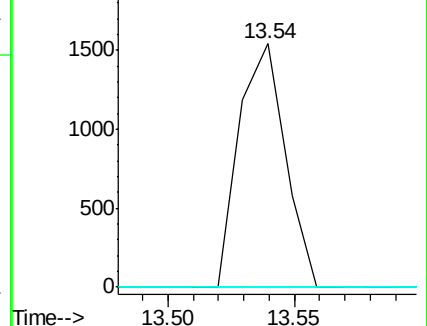
89 0.0 30.5 45.7#

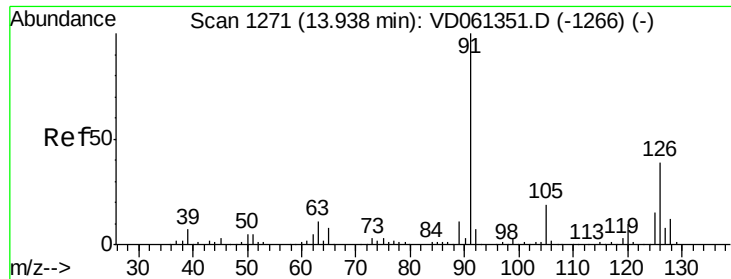


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC





#82

4-Chlorotoluene

Concen: 3.512 ug/l

RT: 13.93 min Scan# 1271

Delta R.T. -0.01 min

Lab File: VD061363.D

Acq: 27 Mar 2019 19:47

Instrument :

MSVOA_D

ClientSampleId :

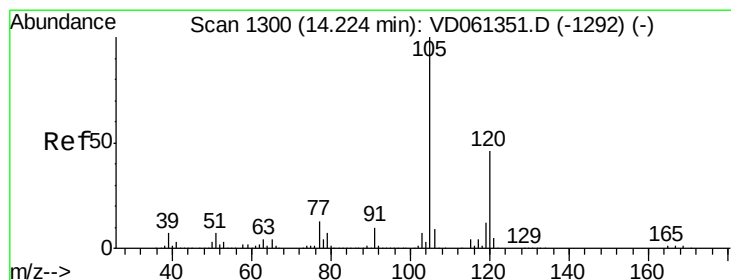
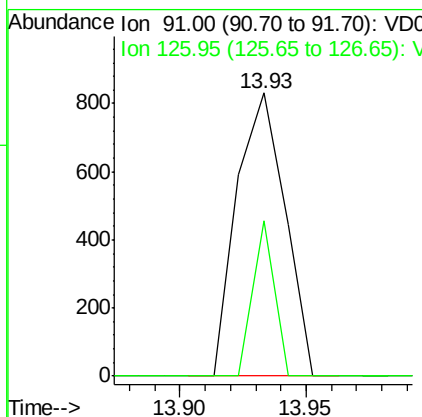
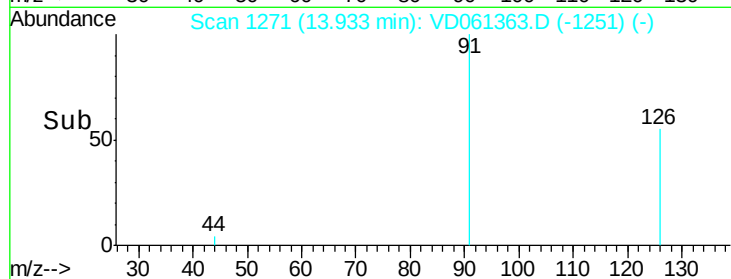
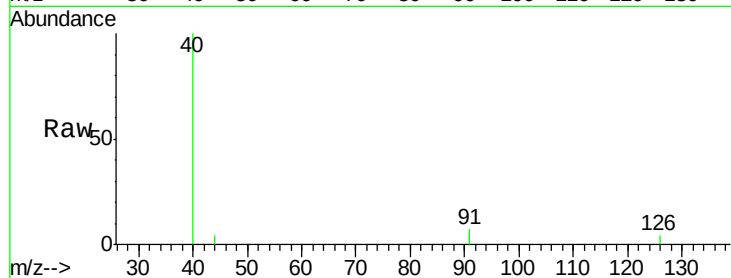
CS-16RE

Tot Ion: 91 Resp: 1103

Ion Ratio Lower Upper

91 100

126 54.8 19.6 58.8



#84

1,2,4-Trimethylbenzene

Concen: 1.471 ug/l

RT: 14.22 min Scan# 1300

Delta R.T. -0.01 min

Lab File: VD061363.D

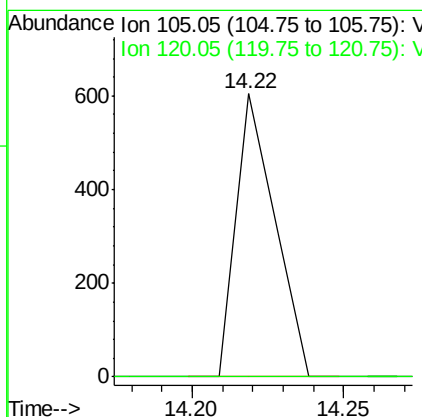
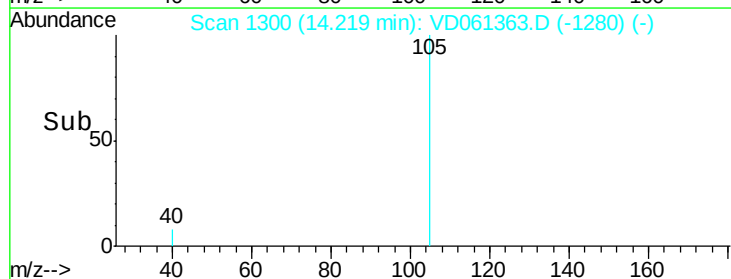
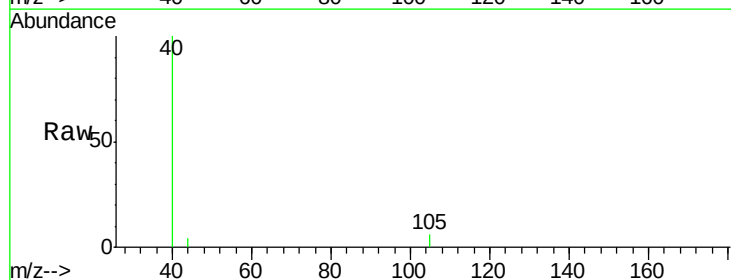
Acq: 27 Mar 2019 19:47

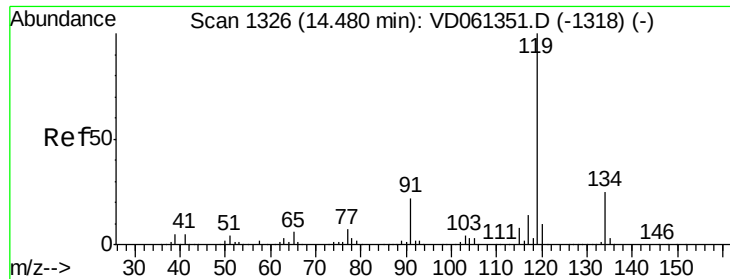
Tgt Ion: 105 Resp: 537

Ion Ratio Lower Upper

105 100

120 0.0 22.8 68.4#

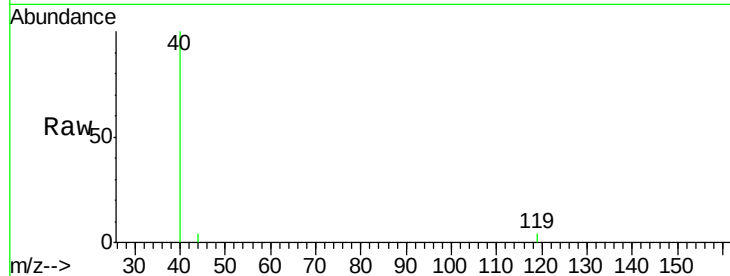




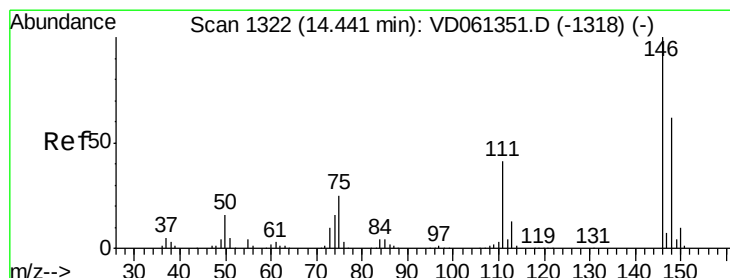
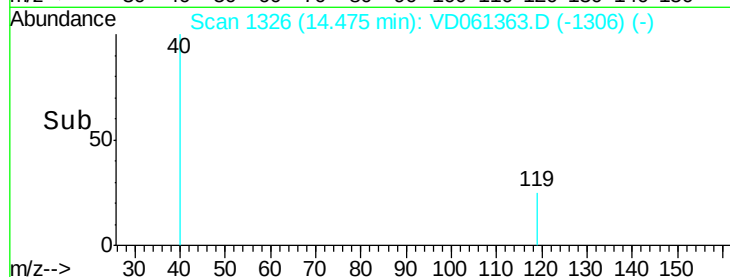
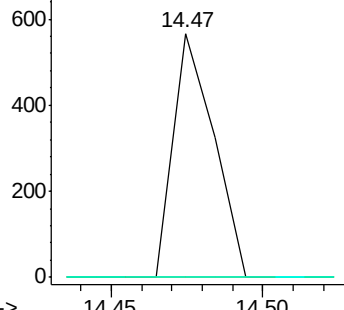
#86
 p-Isopropyltoluene
 Concen: 1.392 ug/l
 RT: 14.47 min Scan# 1326
 Delta R.T. -0.01 min
 Lab File: VD061363.D
 Acq: 27 Mar 2019 19:47

Instrument :
 MSVOA_D
 ClientSampleId :
 CS-16RE

Tot Ion:119 Resp: 527
 Ion Ratio Lower Upper
 119 100
 134 0.0 12.3 36.8#
 91 0.0 11.1 33.1#

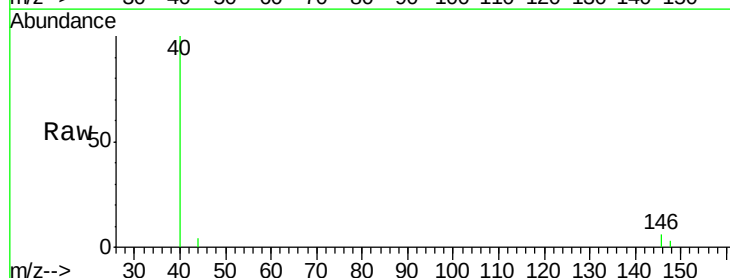


Abundance Ion 119.05 (118.75 to 119.75): V
 Ion 134.10 (133.80 to 134.80): V
 Ion 91.00 (90.70 to 91.70): V

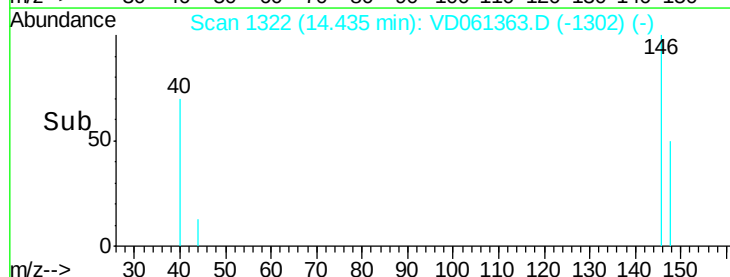
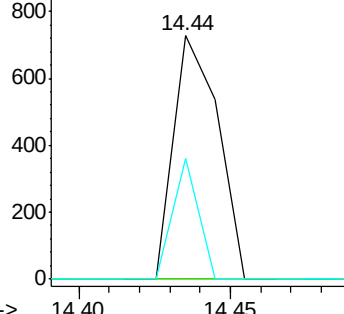


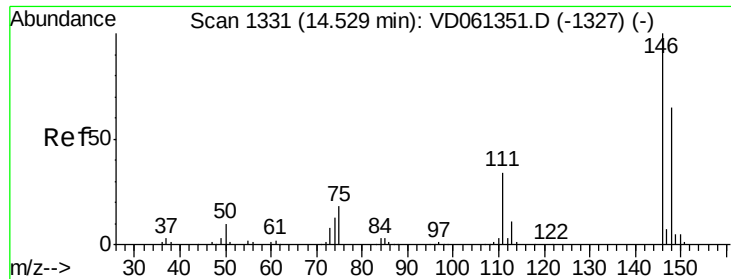
#87
 1,3-Dichlorobenzene
 Concen: 3.419 ug/l
 RT: 14.44 min Scan# 1322
 Delta R.T. -0.01 min
 Lab File: VD061363.D
 Acq: 27 Mar 2019 19:47

Tgt Ion:146 Resp: 746
 Ion Ratio Lower Upper
 146 100
 111 0.0 20.6 61.9#
 148 49.6 31.1 93.3



Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

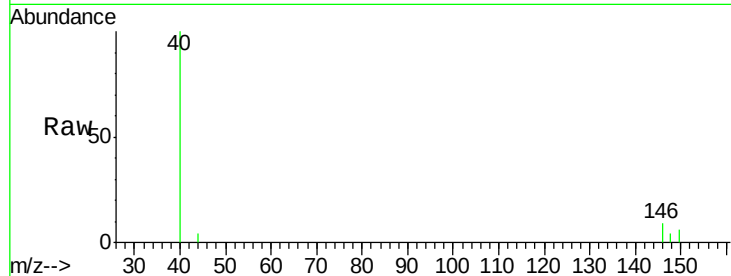




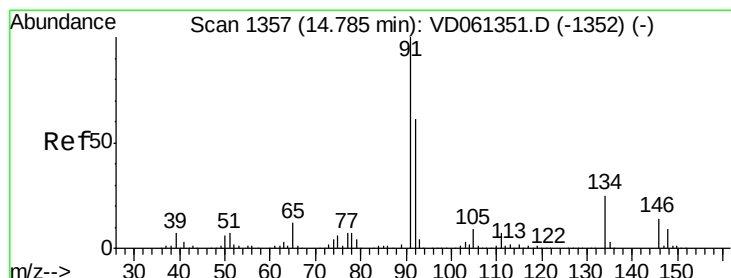
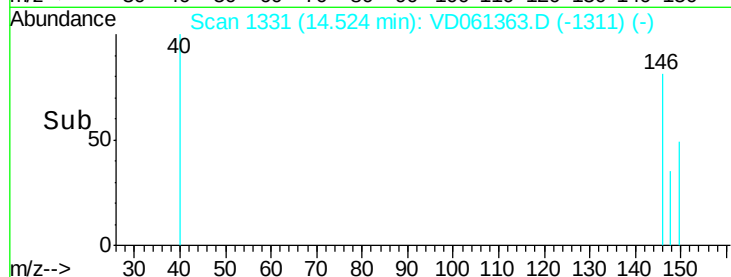
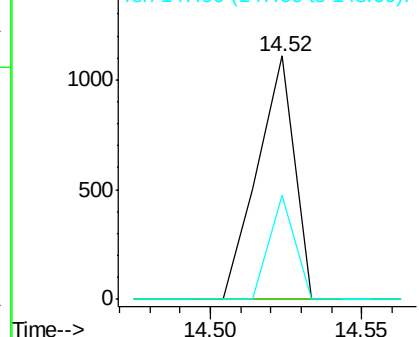
#88
 1,4-Dichlorobenzene
 Concen: 4.469 ug/l
 RT: 14.52 min Scan# 1331
 Delta R.T. -0.01 min
 Lab File: VD061363.D
 Acq: 27 Mar 2019 19:47

Instrument :
 MSVOA_D
 ClientSampleId :
 CS-16RE

Tot Ion:146 Resp: 951
 Ion Ratio Lower Upper
 146 100
 111 0.0 16.8 50.4#
 148 42.8 32.6 98.0

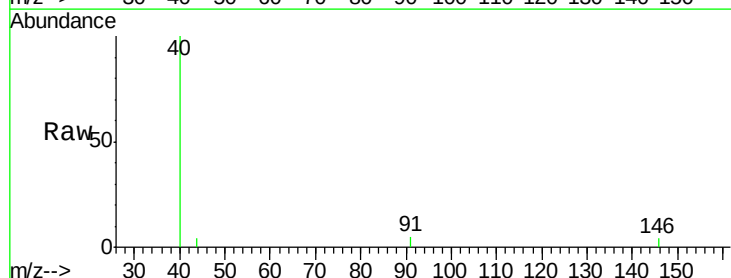


Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

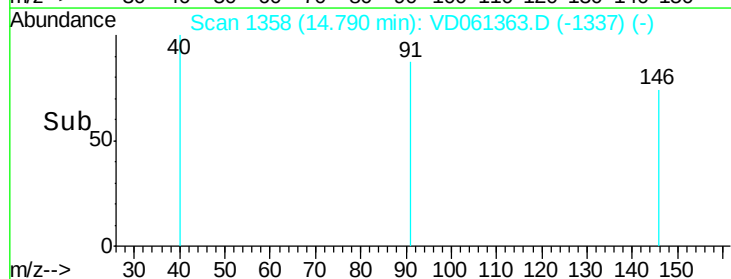
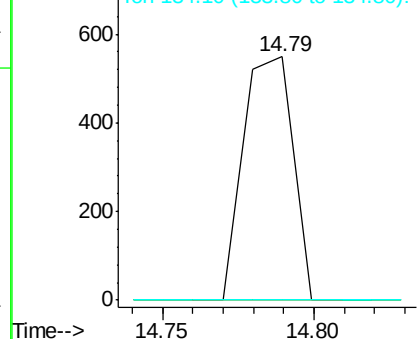


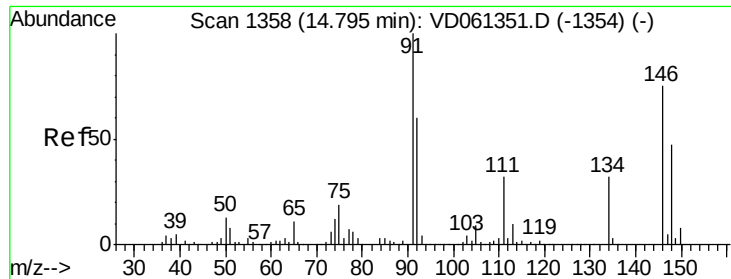
#89
 n-Butylbenzene
 Concen: 1.816 ug/l
 RT: 14.79 min Scan# 1358
 Delta R.T. 0.00 min
 Lab File: VD061363.D
 Acq: 27 Mar 2019 19:47

Tgt Ion: 91 Resp: 631
 Ion Ratio Lower Upper
 91 100
 92 0.0 30.3 91.0#
 134 0.0 12.4 37.0#



Abundance Ion 91.00 (90.70 to 91.70): V
 Ion 92.00 (91.70 to 92.70): V
 Ion 134.10 (133.80 to 134.80): V





#91

1,2-Dichlorobenzene

Concen: 2.687 ug/l

RT: 14.79 min Scan# 1358

Delta R.T. -0.01 min

Lab File: VD061363.D

Acq: 27 Mar 2019 19:47

Instrument :

MSVOA_D

ClientSampleId :

CS-16RE

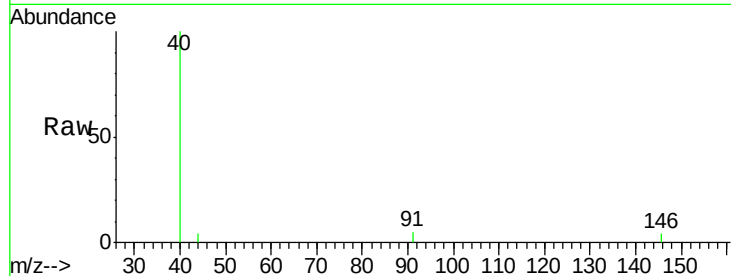
Tot Ion:146 Resp: 481

Ion Ratio Lower Upper

146 100

111 0.0 21.2 63.6#

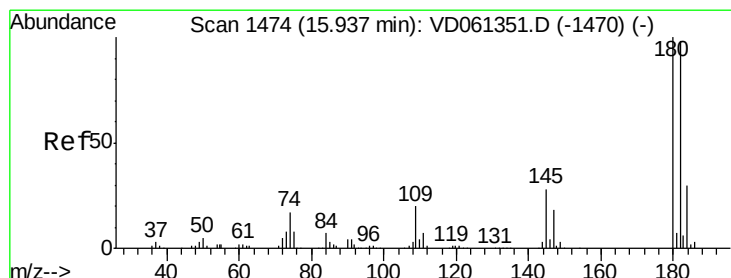
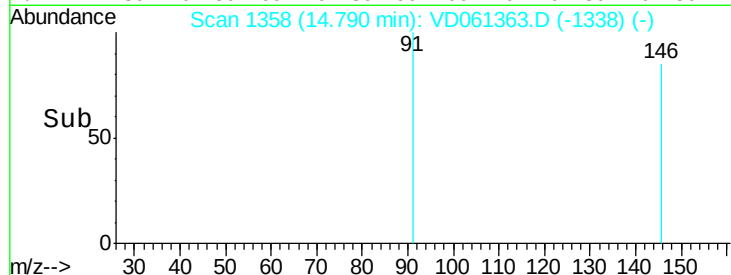
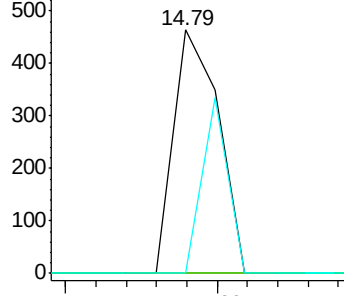
148 0.0 31.6 95.0#



Abundance Ion 145.95 (145.65 to 146.65): 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: 4.943 ug/l

RT: 15.93 min Scan# 1474

Delta R.T. -0.01 min

Lab File: VD061363.D

Acq: 27 Mar 2019 19:47

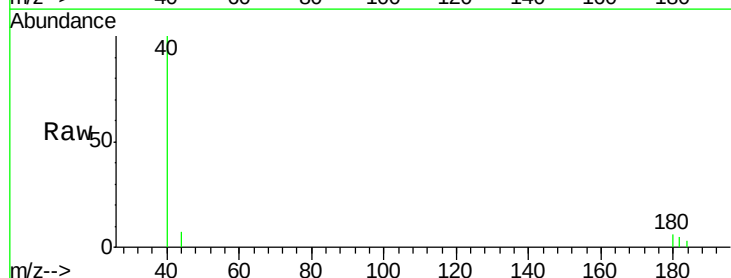
Tgt Ion:180 Resp: 403

Ion Ratio Lower Upper

180 100

182 94.7 48.9 146.8

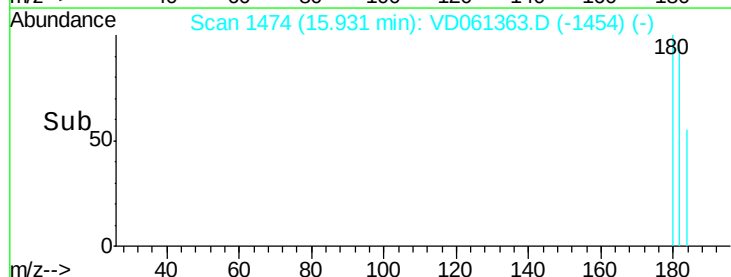
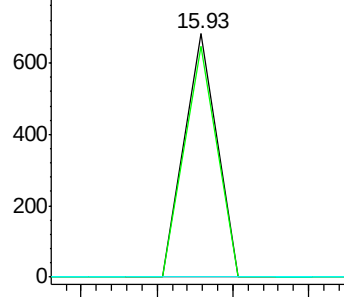
145 0.0 14.1 42.3#

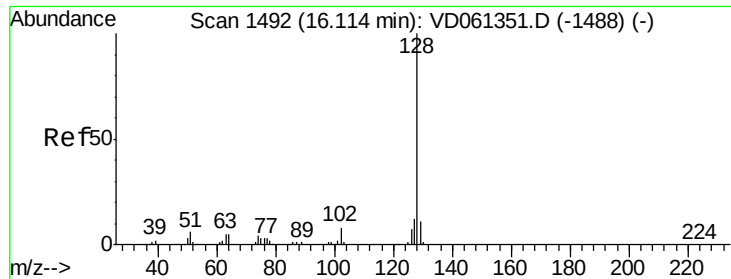


Abundance Ion 179.85 (179.55 to 180.55): V

Ion 181.85 (181.55 to 182.55): V

Ion 144.95 (144.65 to 145.65): V

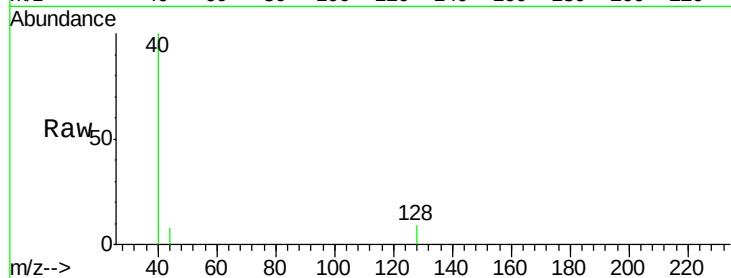




#95
Naphthalene
Concen: 9.020 ug/l
RT: 16.11 min Scan# 1492
Delta R.T. -0.01 min
Lab File: VD061363.D
Acq: 27 Mar 2019 19:47

Instrument :
MSVOA_D
ClientSampleId :
CS-16RE

Tot Ion	Ratio	Lower	Upper
128	100		
127	0.0	9.9	14.9#
129	0.0	8.9	13.3#



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V

