

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD071619\
 Data File : VD063115.D
 Acq On : 16 Jul 2019 19:13
 Operator : VA/AP
 Sample : K3627-03
 Misc : 2.46g/5ml/MSVOA D/SOIL
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 TR-04-071519

Quant Time: Jul 17 07:37:51 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D071519S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 16 08:11:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.04	168	85256	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	8.21	114	135638	50.00	ug/l	0.01
63) Chlorobenzene-d5	12.36	117	124964	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.51	152	64044	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.45	65	83239	78.38	ug/l	0.00
Spiked Amount			Recovery	=	156.76%	
35) Dibromofluoromethane	6.91	113	70003	51.82	ug/l	0.00
Spiked Amount			Recovery	=	103.64%	
50) Toluene-d8	10.40	98	121979	42.03	ug/l	0.00
Spiked Amount			Recovery	=	84.06%	
62) 4-Bromofluorobenzene	13.55	95	65780	49.00	ug/l	0.00
Spiked Amount			Recovery	=	98.00%	

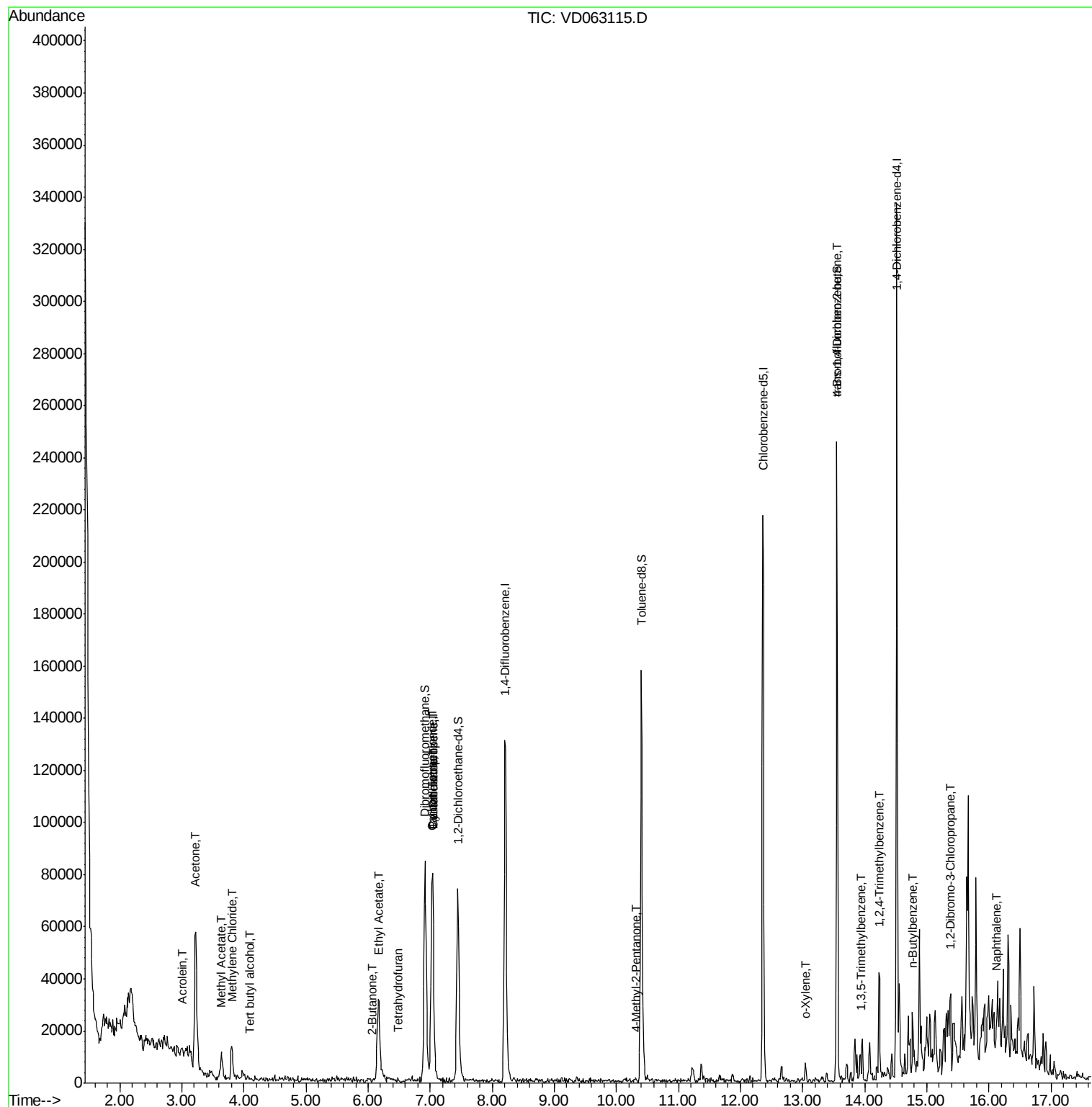
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.75	50	180	Below Cal	#	48
11) Tert butyl alcohol	4.09	59	360	5.874	ug/l #	77
13) Acrolein	3.02	56	209	11.298	ug/l #	17
16) Acetone	3.22	43	114549	446.567	ug/l #	86
18) Methyl Acetate	3.64	43	16546	48.056	ug/l	97
20) Methylene Chloride	3.80	84	6850	7.069	ug/l #	81
25) 2-Butanone	6.07	43	538	2.196	ug/l #	61
29) Tetrahydrofuran	6.48	42	183	1.648	ug/l #	33
31) Cyclohexane	7.04	56	1720	1.701	ug/l #	1
36) 1,1-Dichloropropene	7.05	75	6184	4.054	ug/l #	40
37) Ethyl Acetate	6.18	43	2547	3.901	ug/l #	50
38) Carbon Tetrachloride	7.02	117	9686	4.179	ug/l #	10
51) 4-Methyl-2-Pentanone	10.31	43	1258	2.027	ug/l #	40
69) o-Xylene	13.05	106	2140	1.235	ug/l	47
80) 1,3,5-Trimethylbenzene	13.93	105	4343	1.008	ug/l	89
81) trans-1,4-Dichloro-2-buten	13.55	75	28667	110.498	ug/l #	1
84) 1,2,4-Trimethylbenzene	14.23	105	17664	4.110	ug/l	87
89) n-Butylbenzene	14.77	91	4520	1.015	ug/l #	14
92) 1,2-Dibromo-3-Chloropropan	15.37	75	177	1.026	ug/l #	9
95) Naphthalene	16.12	128	4724	1.927	ug/l #	92

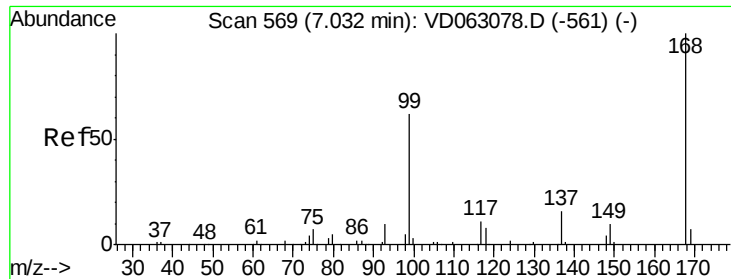
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD071619\
Data File : VD063115.D
Acq On : 16 Jul 2019 19:13
Operator : VA/AP
Sample : K3627-03
Misc : 2.46g/5ml/MSVOA D/SOIL
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
TR-04-071519

Quant Time: Jul 17 07:37:51 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D071519S.M
Quant Title : SW846 8260
QLast Update : Tue Jul 16 08:11:56 2019
Response via : Initial Calibration

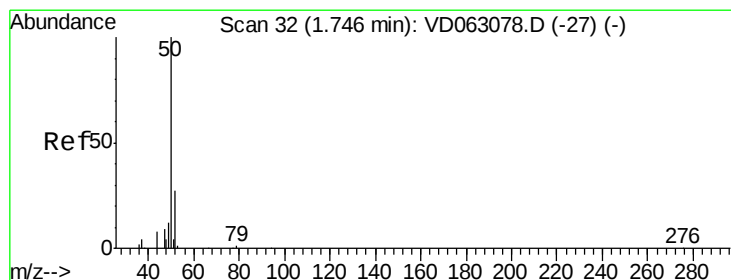
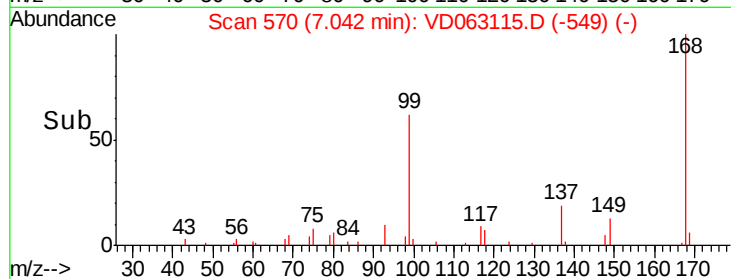
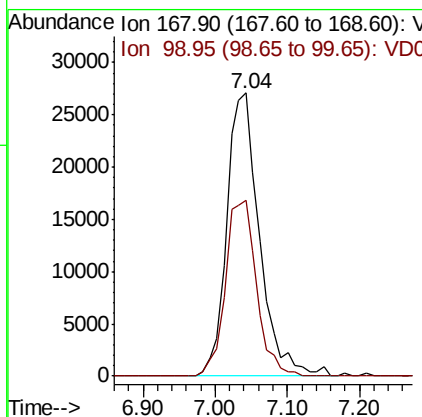
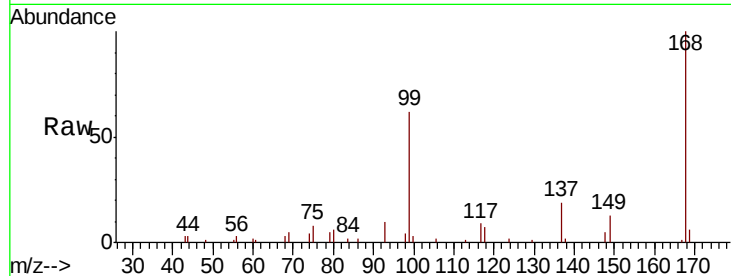




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.04 min Scan# 570
Delta R.T. 0.01 min
Lab File: VD063115.D
Acq: 16 Jul 2019 19:13

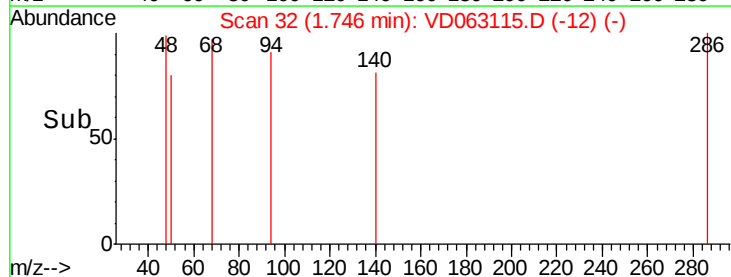
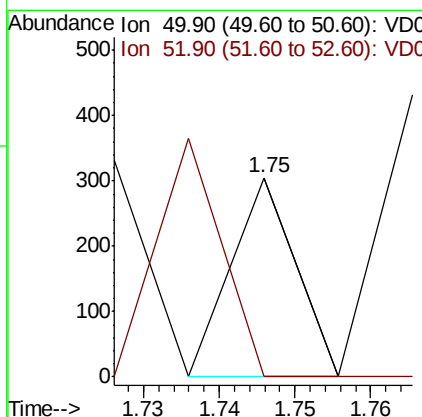
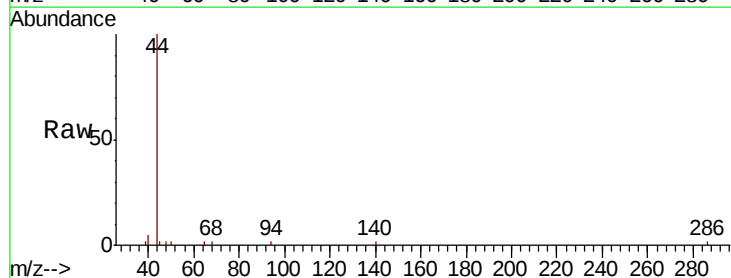
Instrument :
MSVOA_D
ClientSampleId :
TR-04-071519

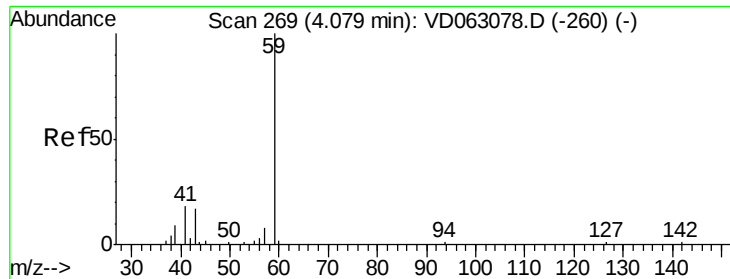
Tot Ion:168 Resp: 85256
Ion Ratio Lower Upper
168 100
99 62.1 50.8 76.2



#3
Chloromethane
Concen: Below Cal
RT: 1.75 min Scan# 32
Delta R.T. 0.00 min
Lab File: VD063115.D
Acq: 16 Jul 2019 19:13

Tgt Ion: 50 Resp: 180
Ion Ratio Lower Upper
50 100
52 0.0 21.4 32.2#

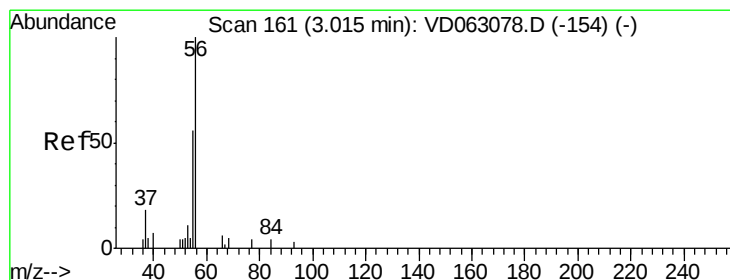
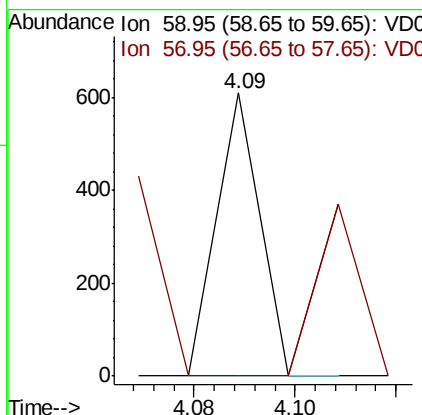
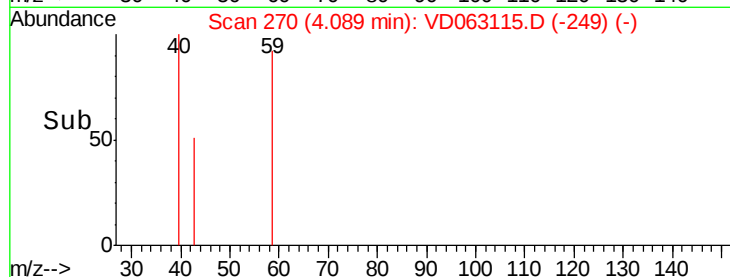
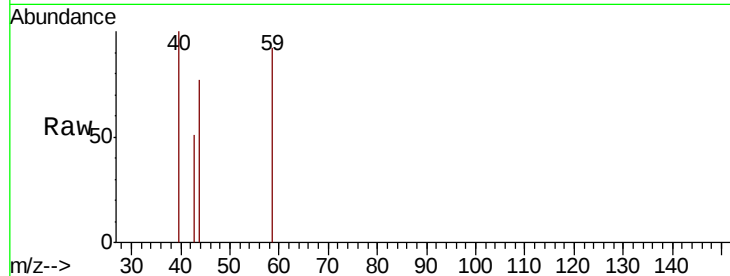




#11
Tert butyl alcohol
Concen: 5.874 ug/l
RT: 4.09 min Scan# 270
Delta R.T. 0.01 min
Lab File: VD063115.D
Acq: 16 Jul 2019 19:13

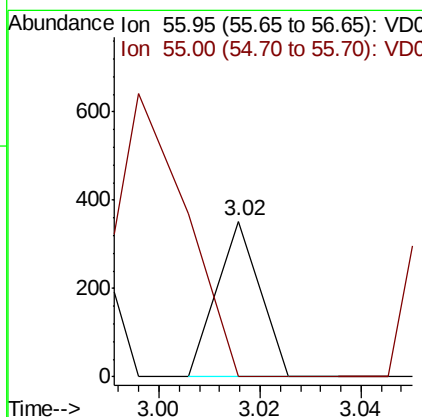
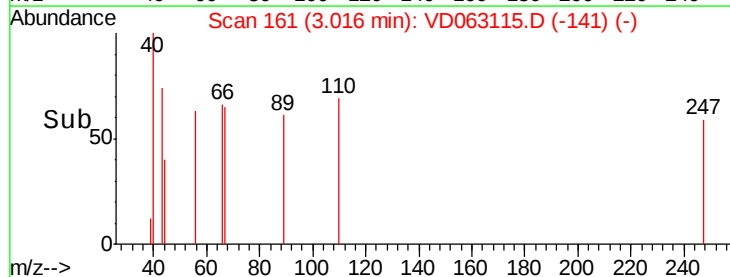
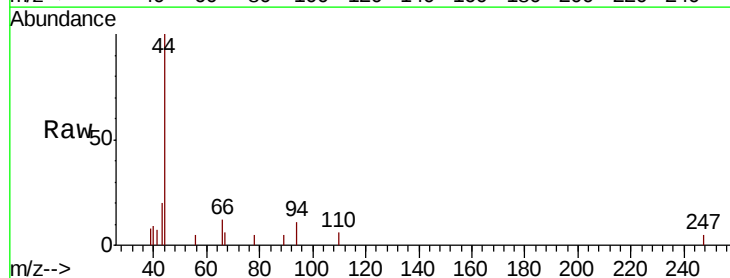
Instrument :
MSVOA_D
ClientSampleId :
TR-04-071519

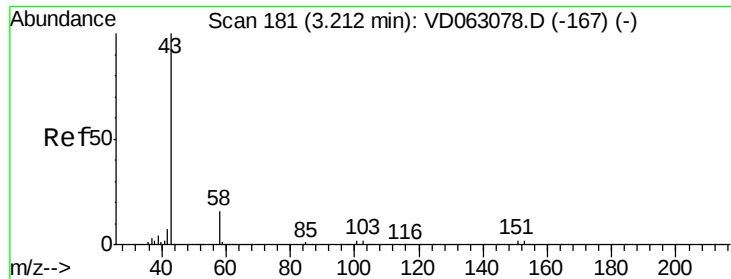
Tot Ion: 59 Resp: 360
Ion Ratio Lower Upper
59 100
57 0.0 6.4 9.6#



#13
Acrolein
Concen: 11.298 ug/l
RT: 3.02 min Scan# 161
Delta R.T. 0.00 min
Lab File: VD063115.D
Acq: 16 Jul 2019 19:13

Tgt Ion: 56 Resp: 209
Ion Ratio Lower Upper
56 100
55 0.0 53.0 79.4#





#16

Acetone

Concen: 446.567 ug/l

RT: 3.22 min Scan# 182

Delta R.T. 0.01 min

Lab File: VD063115.D

Acq: 16 Jul 2019 19:13

Instrument :

MSVOA_D

ClientSampleId :

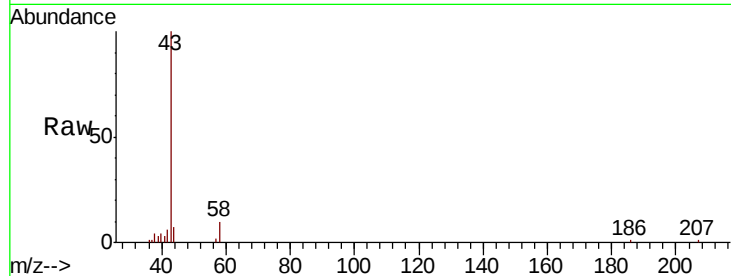
TR-04-071519

Tot Ion: 43 Resp: 114549

Ion Ratio Lower Upper

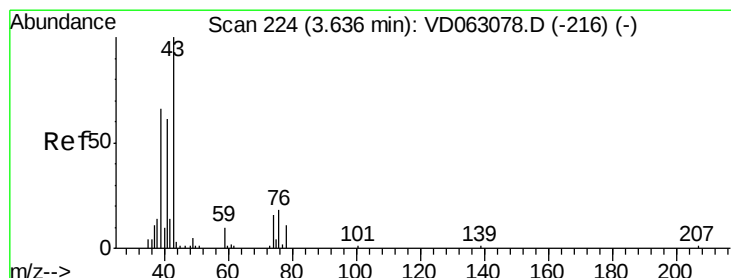
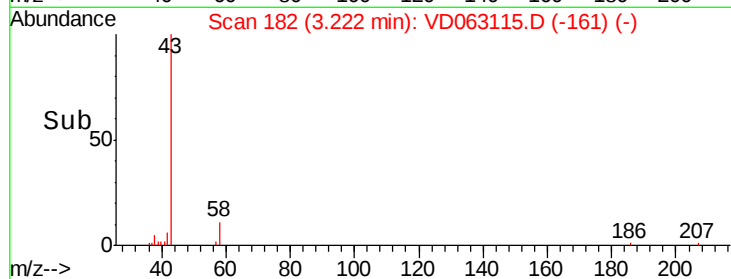
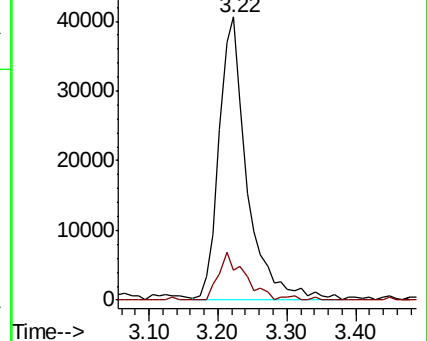
43 100

58 10.4 13.0 19.4#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#18

Methyl Acetate

Concen: 48.056 ug/l

RT: 3.64 min Scan# 224

Delta R.T. 0.00 min

Lab File: VD063115.D

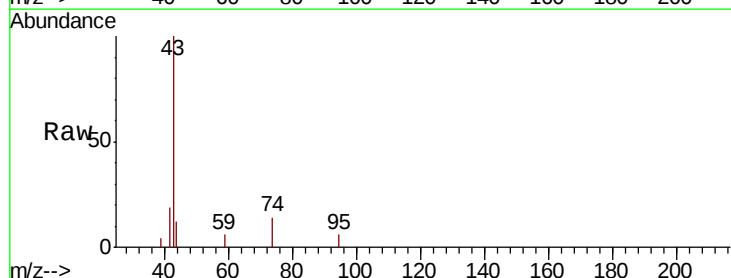
Acq: 16 Jul 2019 19:13

Tgt Ion: 43 Resp: 16546

Ion Ratio Lower Upper

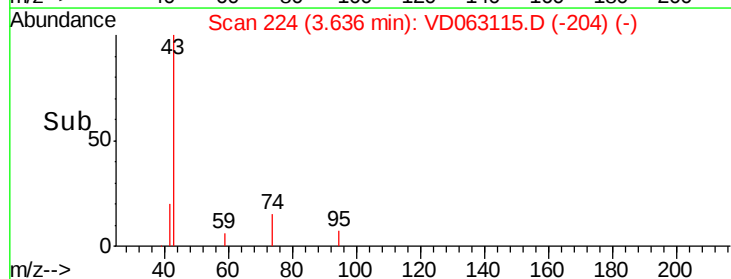
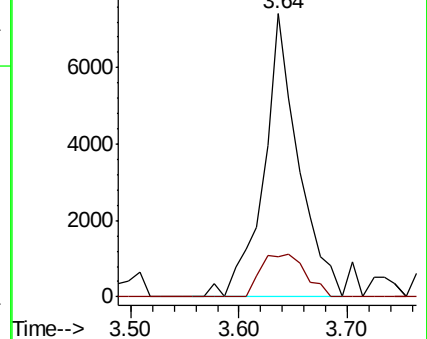
43 100

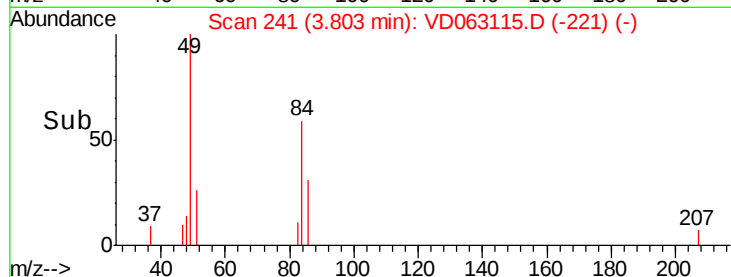
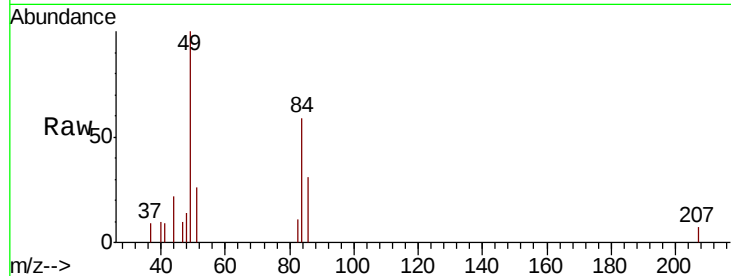
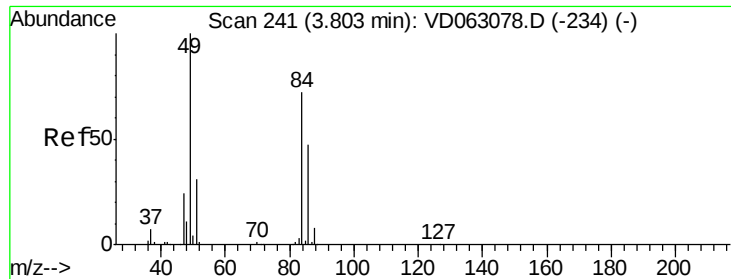
74 14.2 12.5 18.7



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC

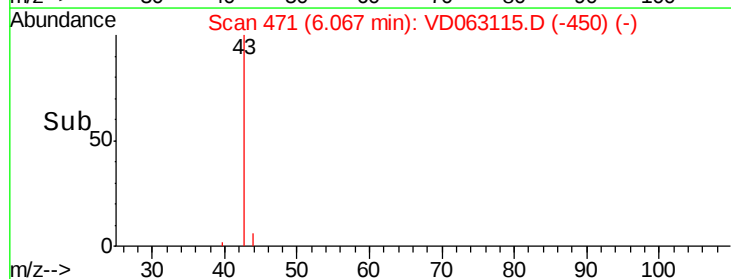
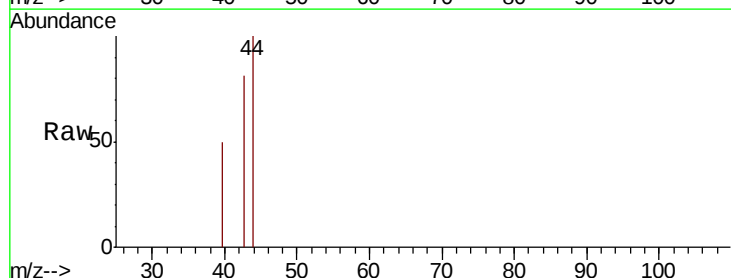
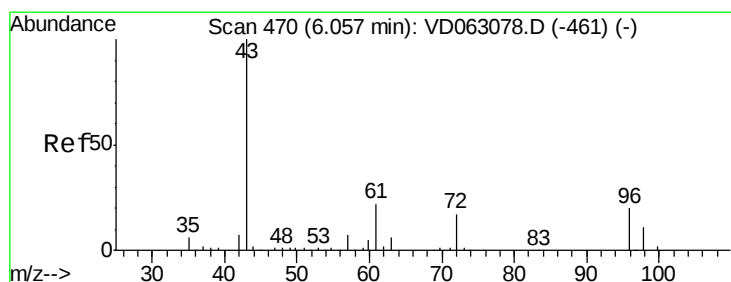
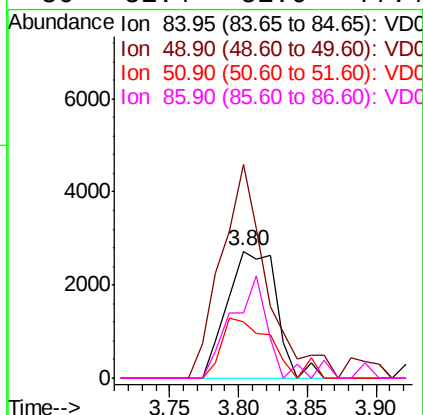




#20
Methvlene Chloride
Concen: 7.069 ug/l
RT: 3.80 min Scan# 241
Delta R.T. 0.00 min
Lab File: VD063115.D
Acq: 16 Jul 2019 19:13

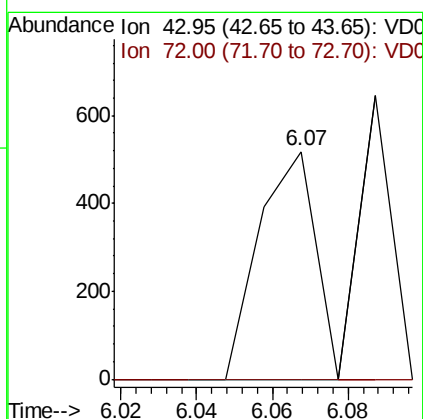
Instrument :
MSVOA_D
ClientSampleId :
TR-04-071519

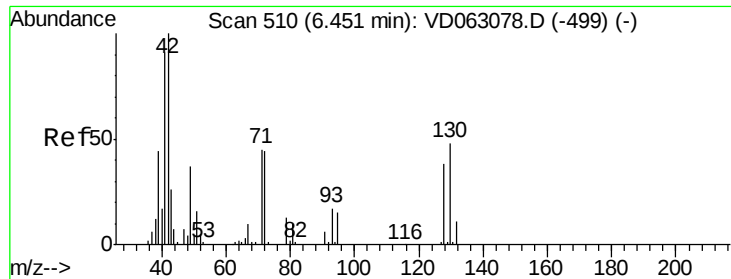
Tot Ion: 84 Resp: 6850
Ion Ratio Lower Upper
84 100
49 168.1 110.5 165.7#
51 44.1 34.6 51.8
86 51.4 51.6 77.4#



#25
2-Butanone
Concen: 2.196 ug/l
RT: 6.07 min Scan# 471
Delta R.T. 0.01 min
Lab File: VD063115.D
Acq: 16 Jul 2019 19:13

Tgt Ion: 43 Resp: 538
Ion Ratio Lower Upper
43 100
72 0.0 13.4 20.0#





#29

Tetrahydrofuran

Concen: 1.648 ug/l

RT: 6.48 min Scan# 513

Delta R.T. 0.03 min

Lab File: VD063115.D

Acq: 16 Jul 2019 19:13

Instrument :

MSVOA_D

ClientSampleId :

TR-04-071519

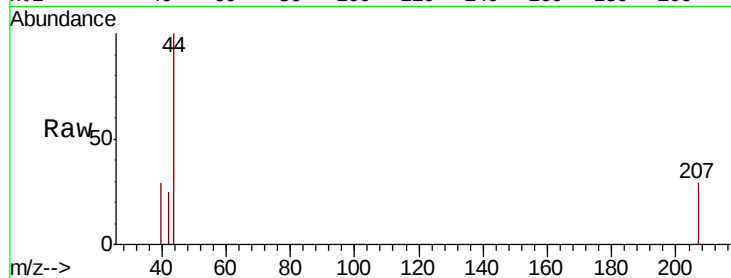
Tot Ion: 42 Resp: 183

Ion Ratio Lower Upper

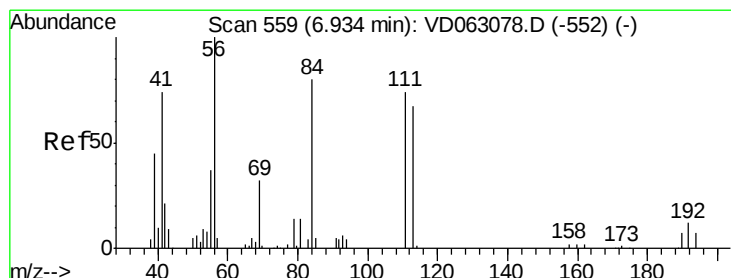
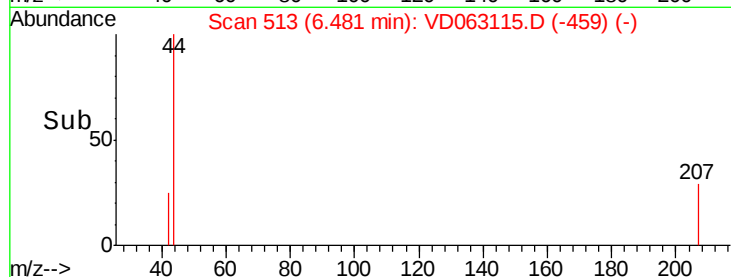
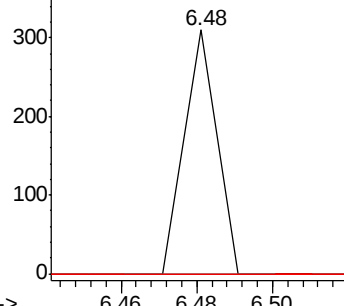
42 100

72 0.0 33.7 50.5#

71 0.0 34.2 51.2#



Abundance Ion 42.00 (41.70 to 42.70): VDC
Ion 72.00 (71.70 to 72.70): VDC
Ion 71.00 (70.70 to 71.70): VDC



#31

Cyclohexane

Concen: 1.701 ug/l

RT: 7.04 min Scan# 570

Delta R.T. 0.11 min

Lab File: VD063115.D

Acq: 16 Jul 2019 19:13

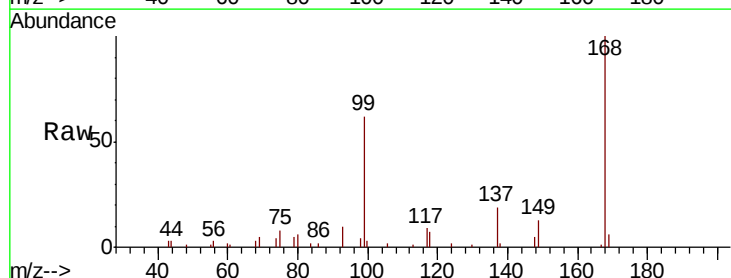
Tgt Ion: 56 Resp: 1720

Ion Ratio Lower Upper

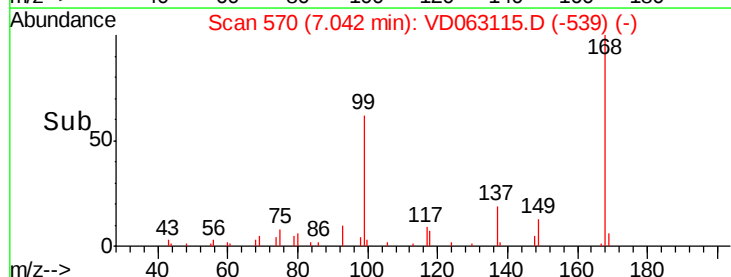
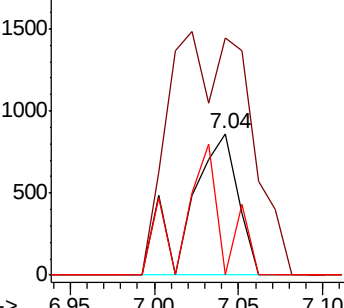
56 100

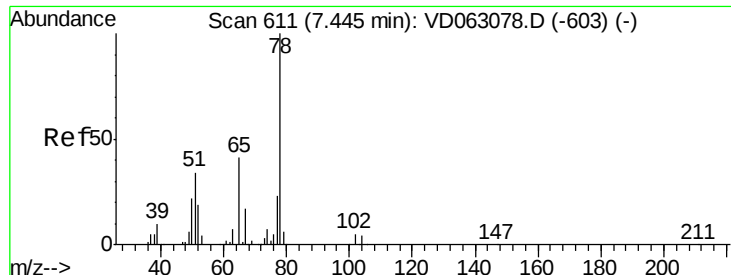
69 167.9 25.3 37.9#

84 0.0 64.2 96.4#



Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC





#33

1,2-Dichloroethane-d4

Concen: 78.377 ug/l

RT: 7.45 min Scan# 611

Delta R.T. 0.00 min

Lab File: VD063115.D

Acq: 16 Jul 2019 19:13

Instrument :

MSVOA_D

ClientSampleId :

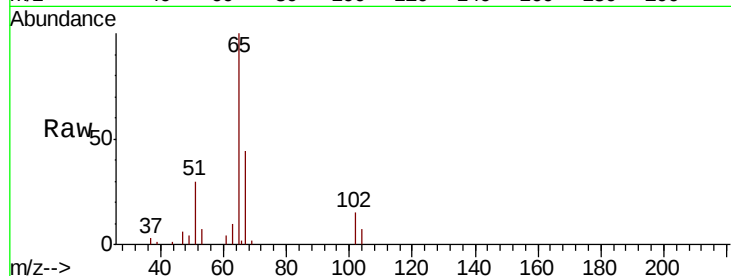
TR-04-071519

Tot Ion: 65 Resp: 83239

Ion Ratio Lower Upper

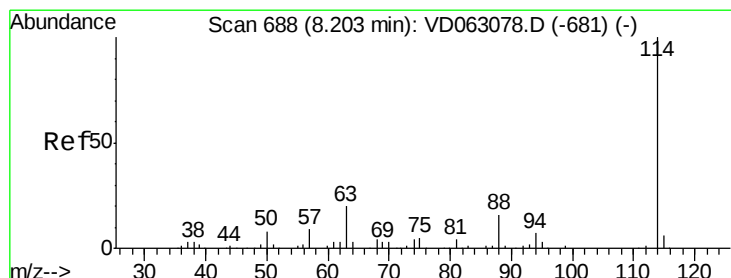
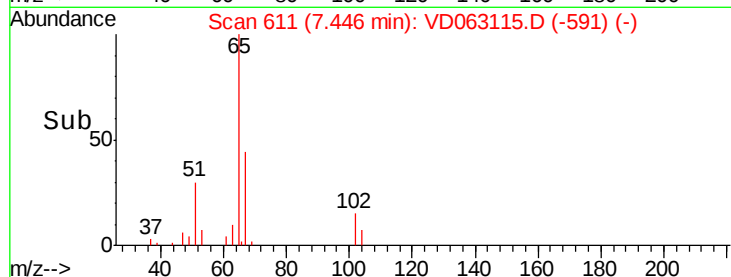
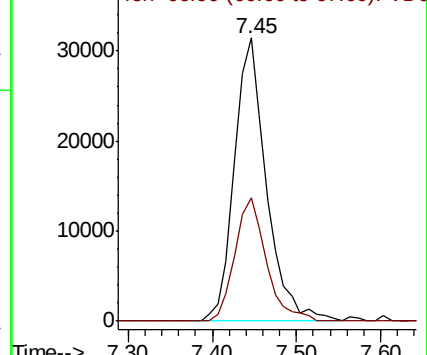
65 100

67 43.6 0.0 86.0



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.21 min Scan# 689

Delta R.T. 0.01 min

Lab File: VD063115.D

Acq: 16 Jul 2019 19:13

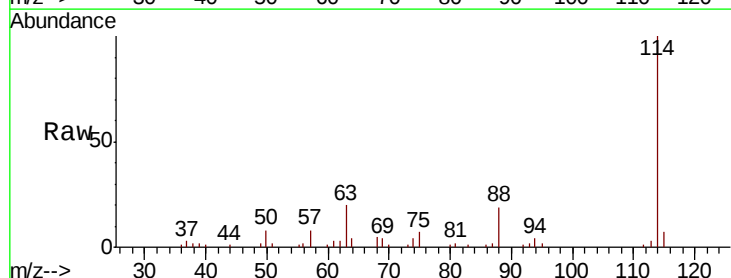
Tgt Ion: 114 Resp: 135638

Ion Ratio Lower Upper

114 100

63 19.7 0.0 40.6

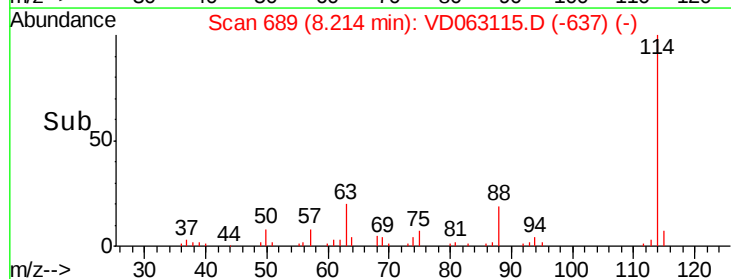
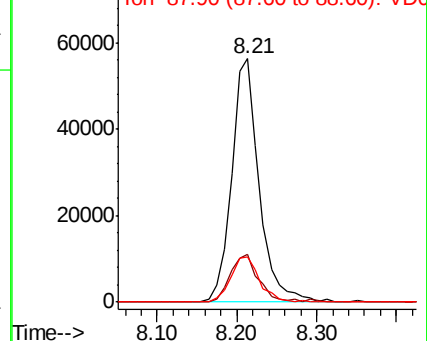
88 18.7 0.0 32.6

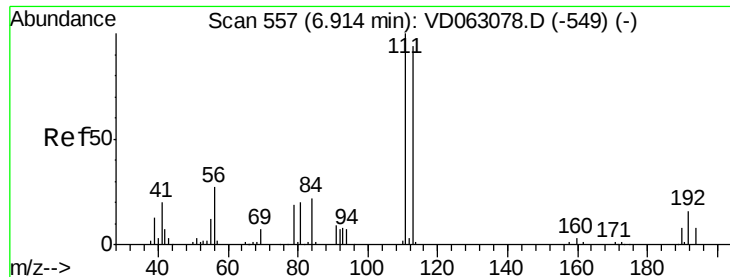


Abundance Ion 114.00 (113.70 to 114.70): VDC

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC





#35

Dibromofluoromethane

Concen: 51.816 ug/l

RT: 6.91 min Scan# 557

Delta R.T. 0.00 min

Lab File: VD063115.D

Acq: 16 Jul 2019 19:13

Instrument :

MSVOA_D

ClientSampleId :

TR-04-071519

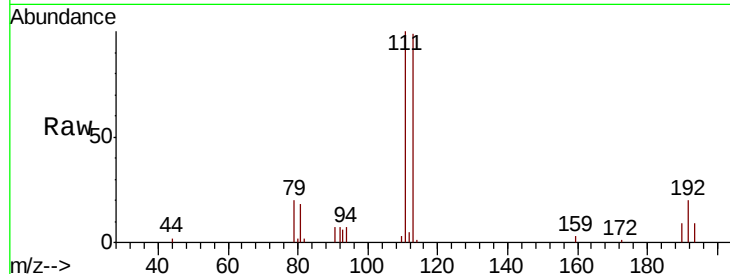
Tot Ion:113 Resp: 70003

Ion Ratio Lower Upper

113 100

111 101.0 84.8 127.2

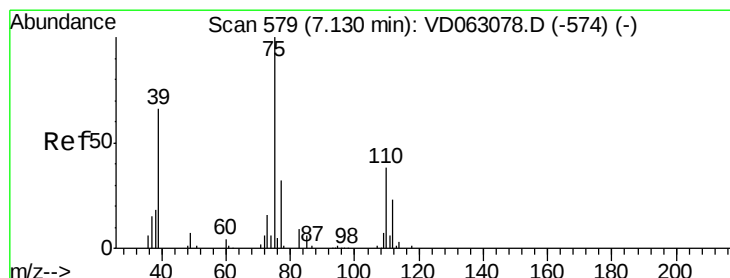
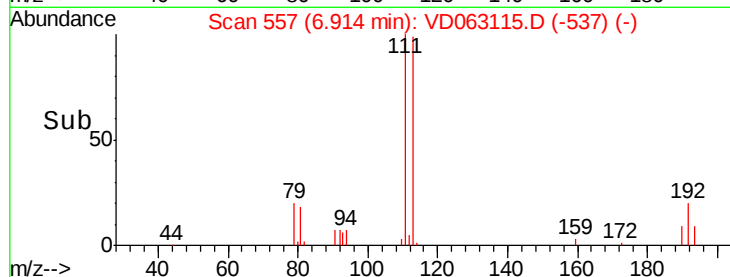
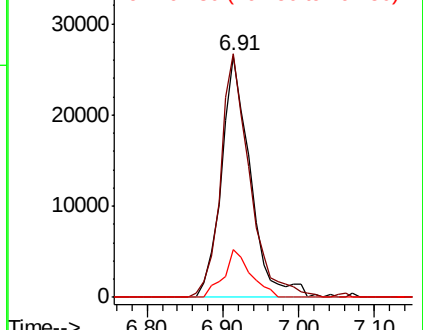
192 19.7 13.4 20.0



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



#36

1,1-Dichloropropene

Concen: 4.054 ug/l

RT: 7.05 min Scan# 571

Delta R.T. -0.08 min

Lab File: VD063115.D

Acq: 16 Jul 2019 19:13

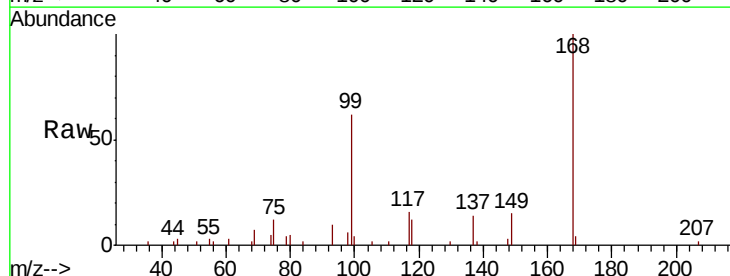
Tgt Ion: 75 Resp: 6184

Ion Ratio Lower Upper

75 100

110 0.0 18.9 56.5#

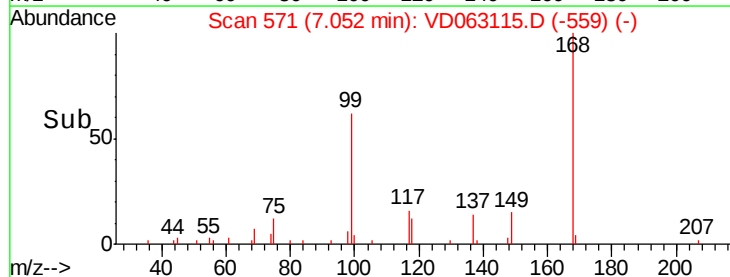
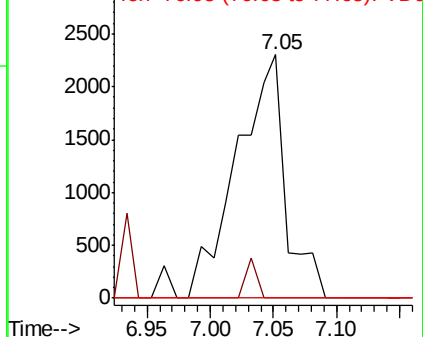
77 0.0 25.2 37.8#

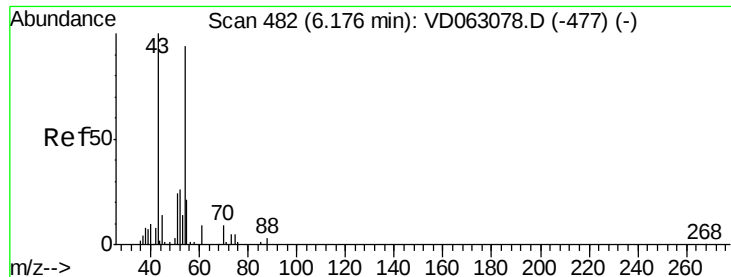


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V

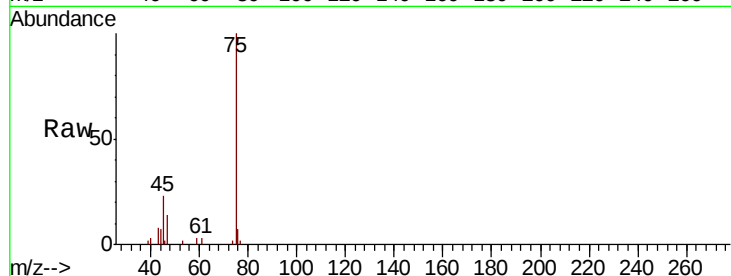




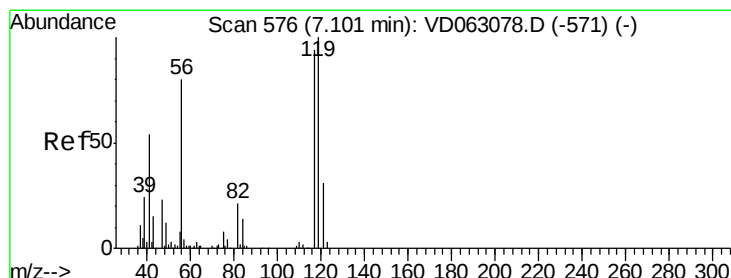
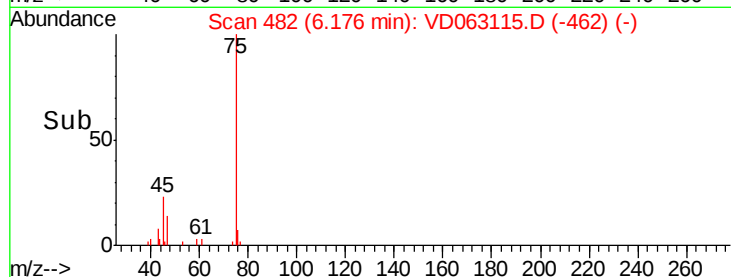
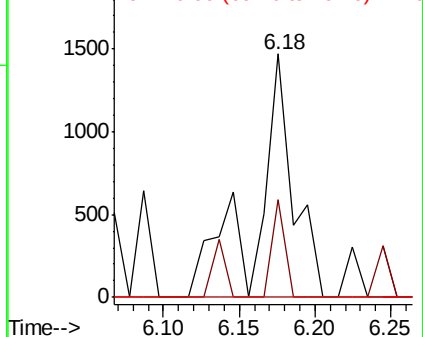
#37
Ethyl Acetate
Concen: 3.901 ug/l
RT: 6.18 min Scan# 482
Delta R.T. 0.00 min
Lab File: VD063115.D
Acq: 16 Jul 2019 19:13

Instrument :
MSVOA_D
ClientSampleId :
TR-04-071519

Tot Ion	Ratio	Lower	Upper
43	100		
61	39.9	10.6	16.0#
70	0.0	6.6	9.8#

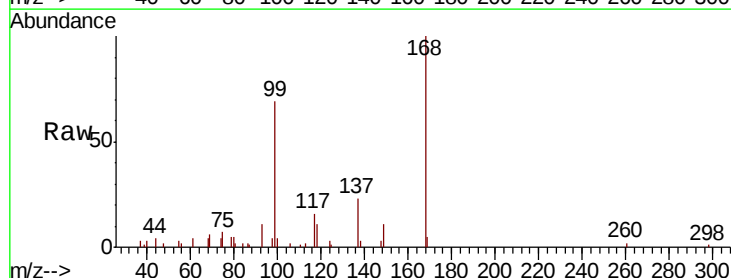


Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 70.00 (69.70 to 70.70): VDC

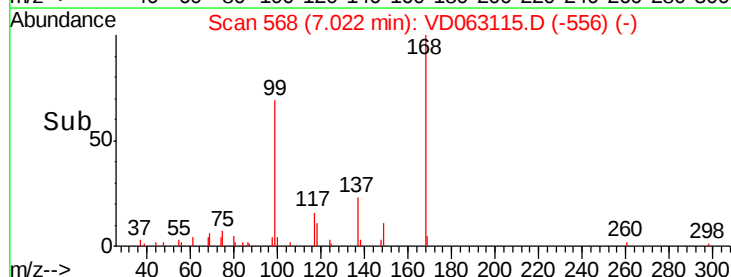
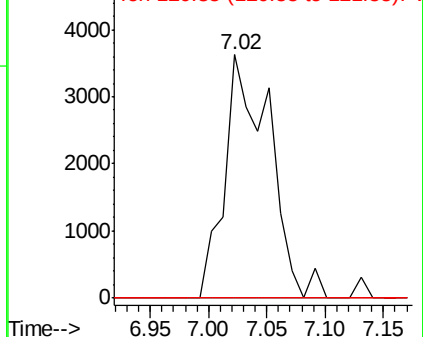


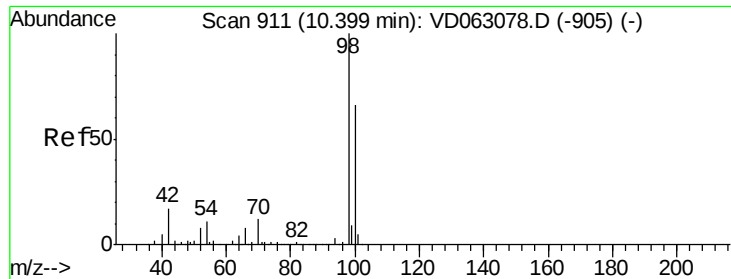
#38
Carbon Tetrachloride
Concen: 4.179 ug/l
RT: 7.02 min Scan# 568
Delta R.T. -0.08 min
Lab File: VD063115.D
Acq: 16 Jul 2019 19:13

Tgt Ion	Ratio	Lower	Upper
117	100		
119	0.0	80.0	120.0#
121	0.0	25.0	37.4#



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

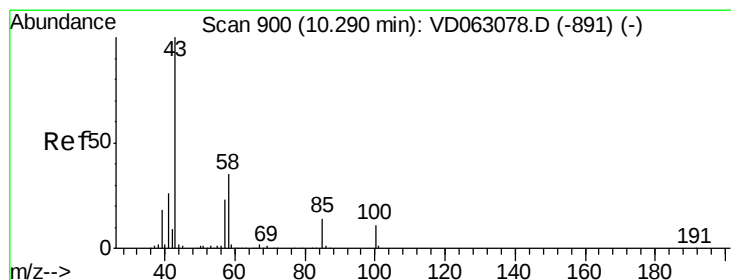
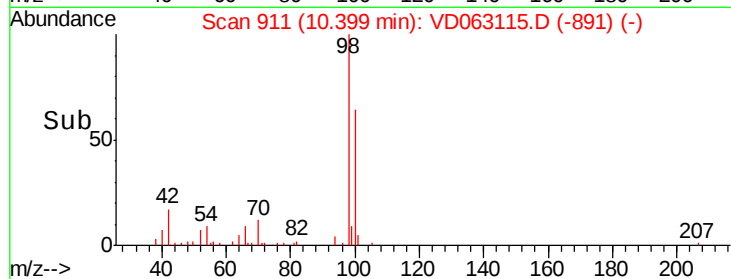
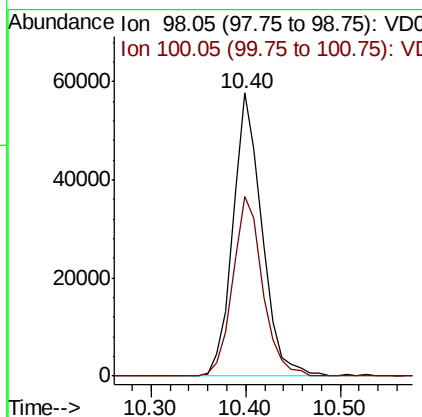
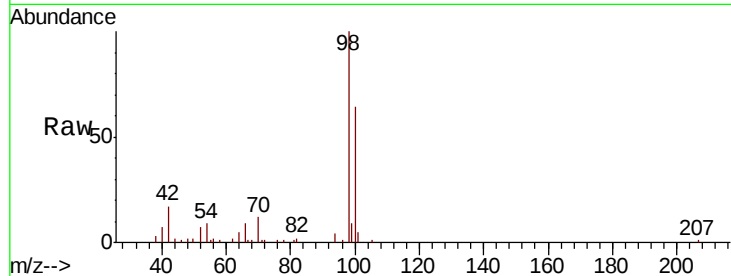




#50
Toluene-d8
Concen: 42.034 ug/l
RT: 10.40 min Scan# 911
Delta R.T. 0.00 min
Lab File: VD063115.D
Acq: 16 Jul 2019 19:13

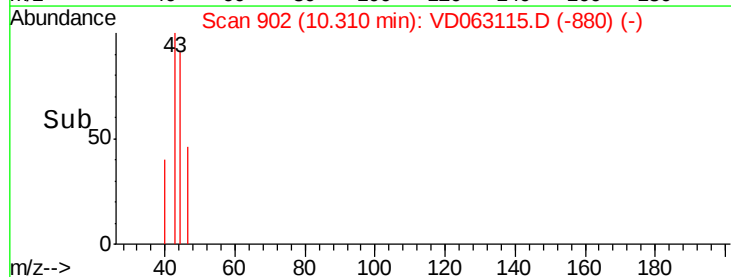
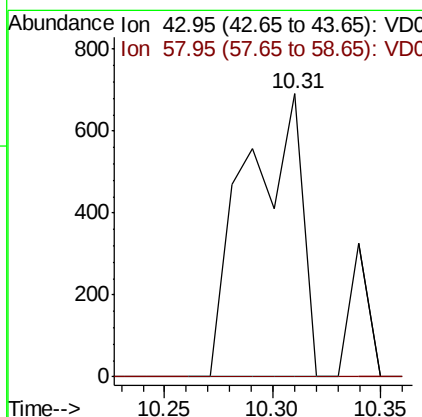
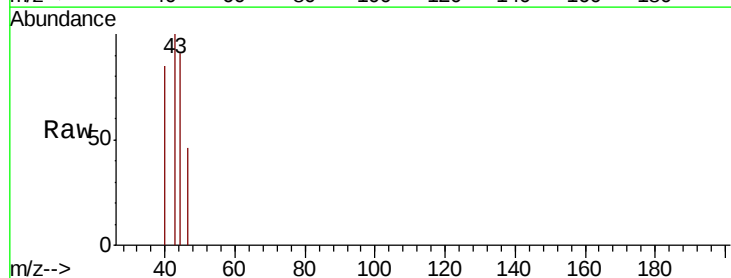
Instrument :
MSVOA_D
ClientSampleId :
TR-04-071519

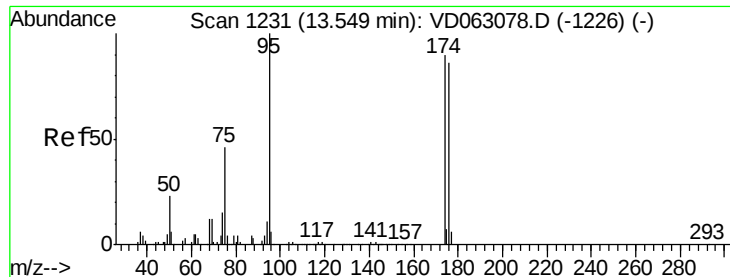
Tot Ion: 98 Resp: 121979
Ion Ratio Lower Upper
98 100
100 63.5 53.5 80.3



#51
4-Methyl-2-Pentanone
Concen: 2.027 ug/l
RT: 10.31 min Scan# 902
Delta R.T. 0.02 min
Lab File: VD063115.D
Acq: 16 Jul 2019 19:13

Tgt Ion: 43 Resp: 1258
Ion Ratio Lower Upper
43 100
58 0.0 27.8 41.6#

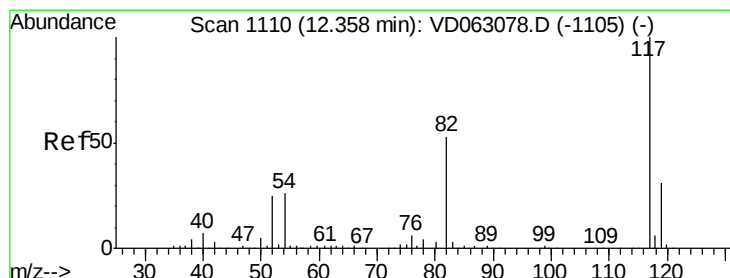
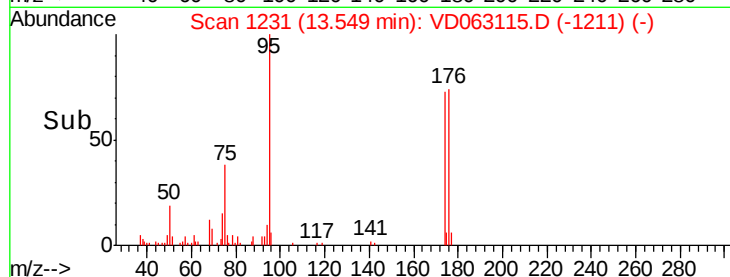
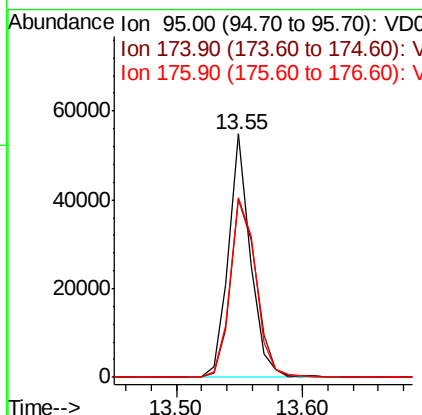
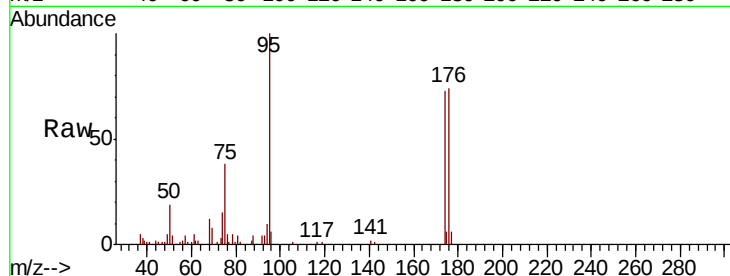




#62
4-Bromofluorobenzene
Concen: 48.997 ug/l
RT: 13.55 min Scan# 1231
Delta R.T. 0.00 min
Lab File: VD063115.D
Acq: 16 Jul 2019 19:13

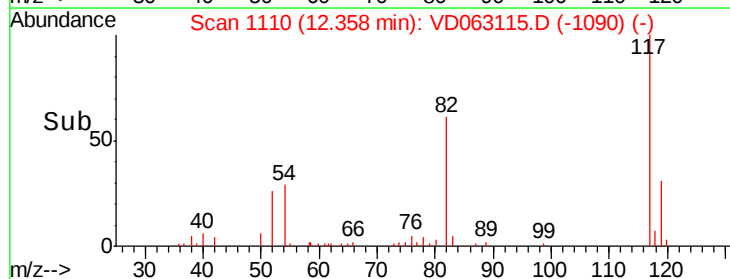
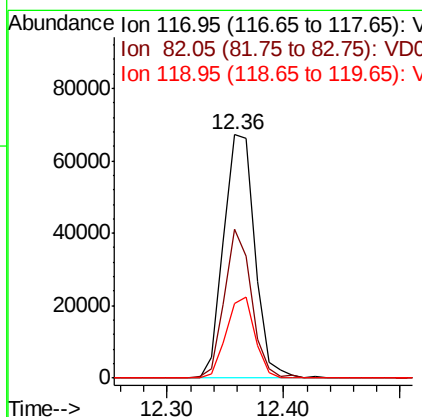
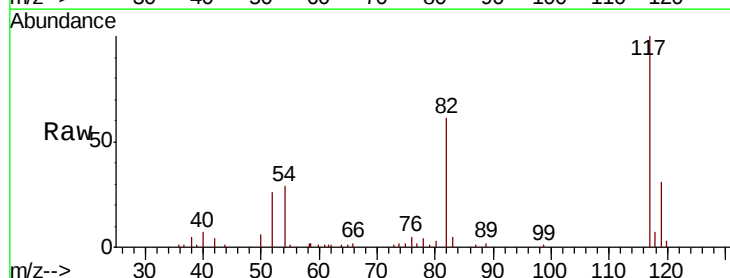
Instrument :
MSVOA_D
ClientSampleId :
TR-04-071519

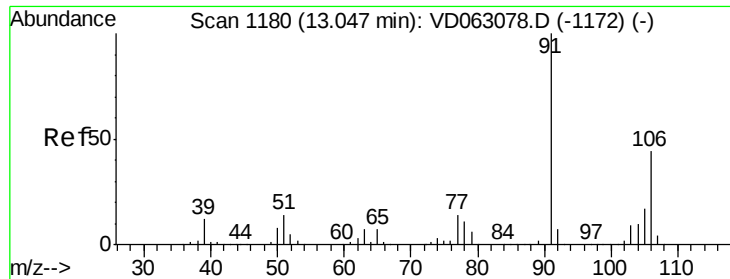
Tot Ion: 95 Resp: 65780
Ion Ratio Lower Upper
95 100
174 73.3 0.0 180.6
176 73.7 0.0 172.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.36 min Scan# 1110
Delta R.T. 0.00 min
Lab File: VD063115.D
Acq: 16 Jul 2019 19:13

Tgt Ion: 117 Resp: 124964
Ion Ratio Lower Upper
117 100
82 61.1 42.3 63.5
119 30.7 25.2 37.8

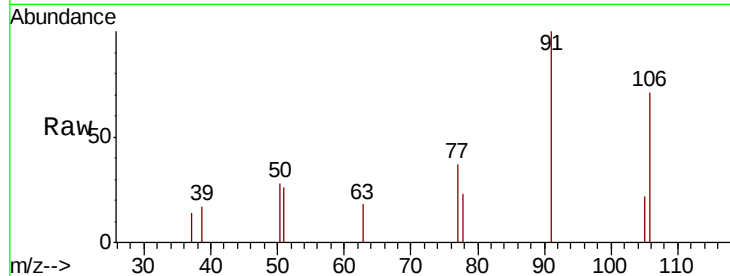




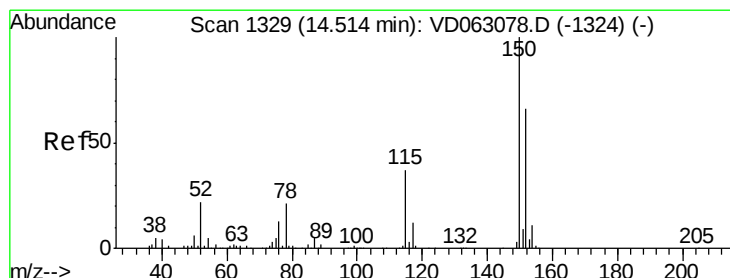
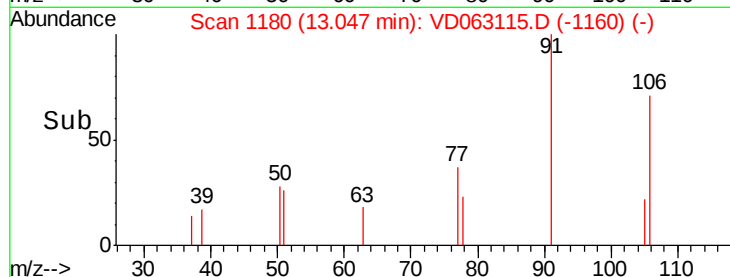
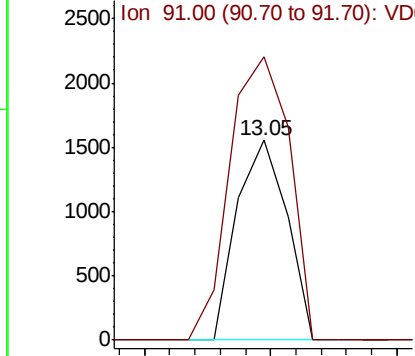
#69
o-Xylene
Concen: 1.235 ug/l
RT: 13.05 min Scan# 1180
Delta R.T. 0.00 min
Lab File: VD063115.D
Acq: 16 Jul 2019 19:13

Instrument :
MSVOA_D
ClientSampleId :
TR-04-071519

Tot Ion:106 Resp: 2140
Ion Ratio Lower Upper
106 100
91 141.8 114.9 344.7

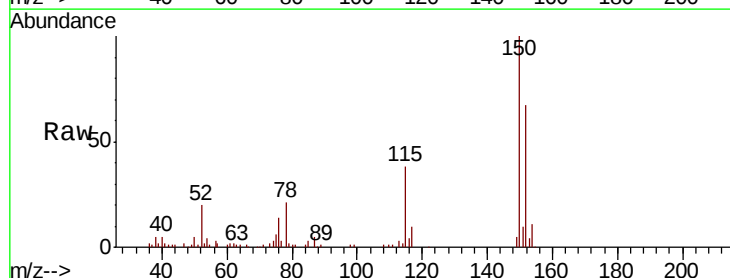


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): V

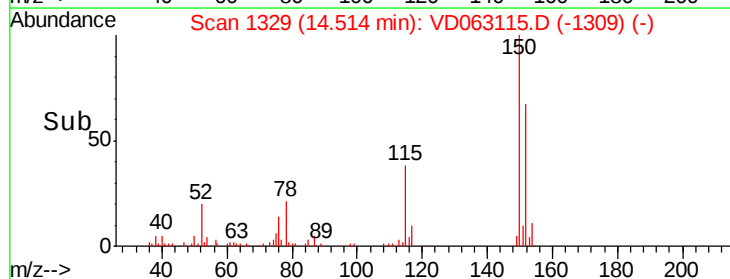
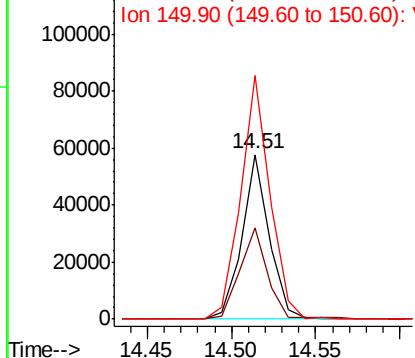


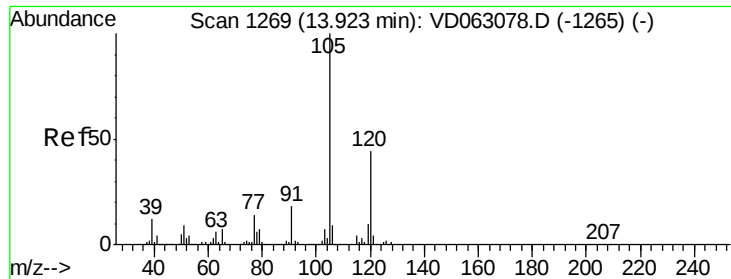
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.51 min Scan# 1329
Delta R.T. 0.00 min
Lab File: VD063115.D
Acq: 16 Jul 2019 19:13

Tgt Ion:152 Resp: 64044
Ion Ratio Lower Upper
152 100
115 55.6 28.9 86.8
150 148.2 0.0 313.8



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

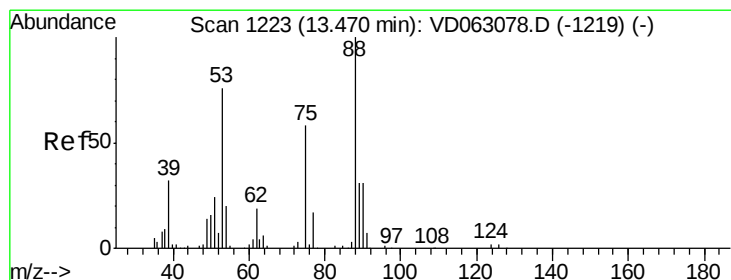
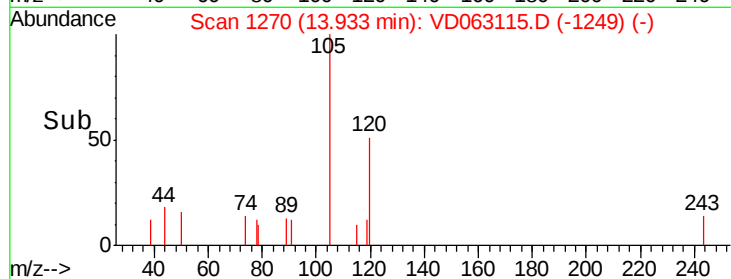
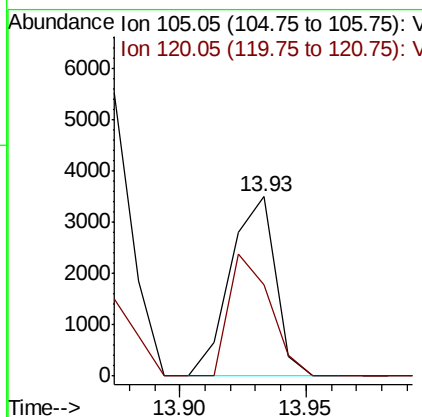
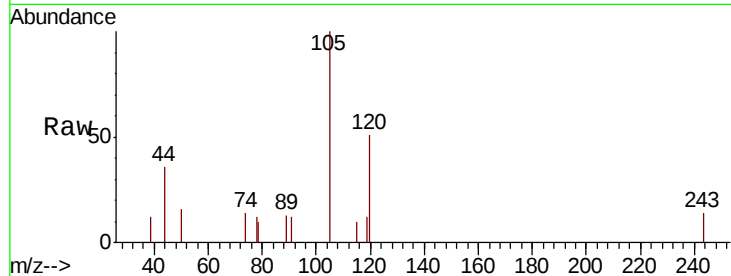




#80
 1,3,5-Trimethylbenzene
 Concen: 1.008 ug/l
 RT: 13.93 min Scan# 1270
 Delta R.T. 0.01 min
 Lab File: VD063115.D
 Acq: 16 Jul 2019 19:13

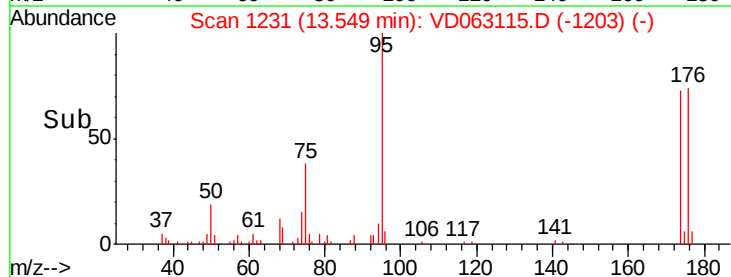
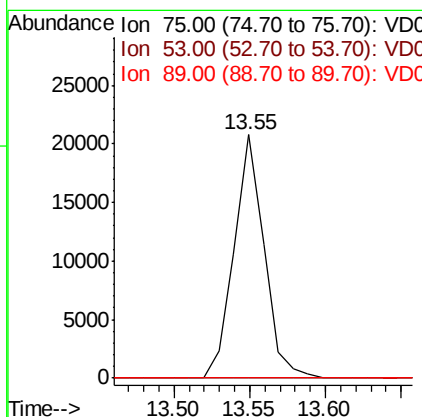
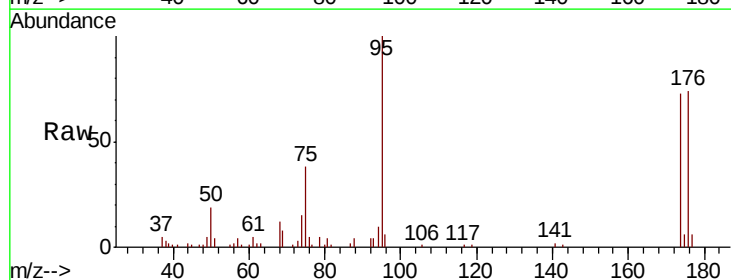
Instrument :
 MSVOA_D
 ClientSampleId :
 TR-04-071519

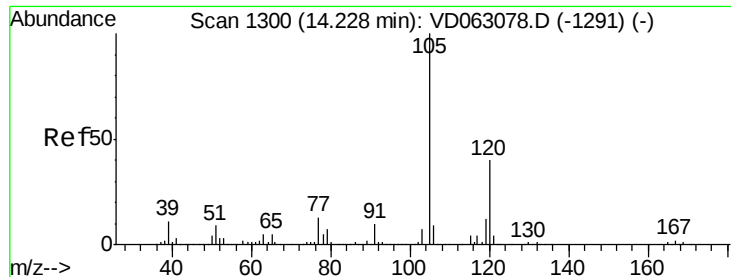
Tot Ion:105 Resp: 4343
 Ion Ratio Lower Upper
 105 100
 120 50.7 21.8 65.4



#81
 trans-1,4-Dichloro-2-butene
 Concen: 110.498 ug/l
 RT: 13.55 min Scan# 1231
 Delta R.T. 0.08 min
 Lab File: VD063115.D
 Acq: 16 Jul 2019 19:13

Tgt Ion: 75 Resp: 28667
 Ion Ratio Lower Upper
 75 100
 53 0.0 104.4 156.6#
 89 0.0 43.1 64.7#

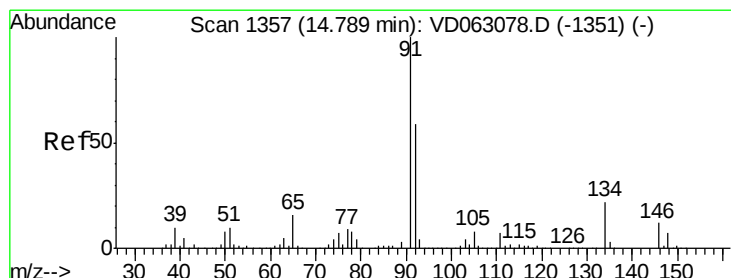
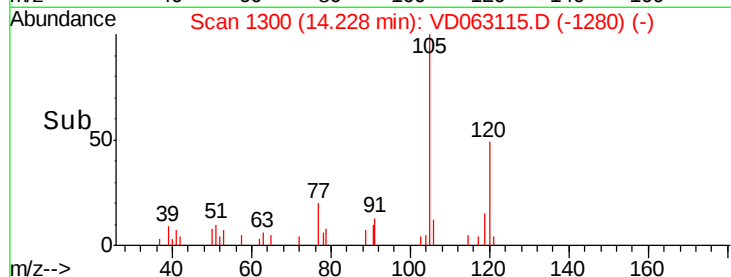
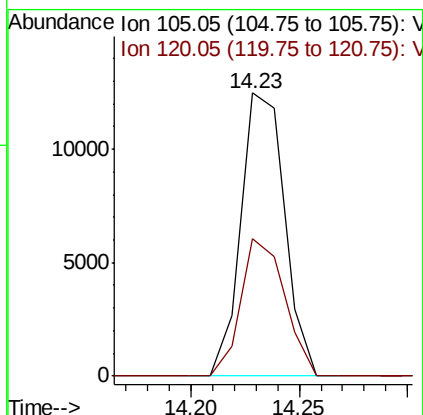
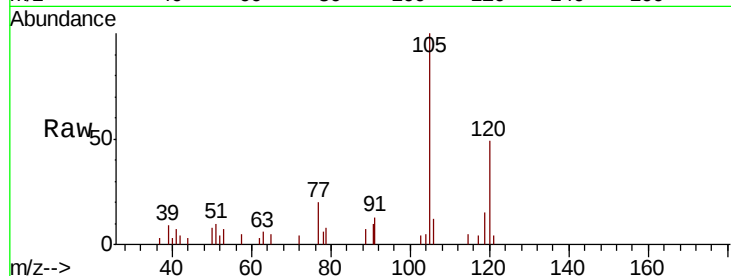




#84
 1,2,4-Trimethylbenzene
 Concen: 4.110 ug/l
 RT: 14.23 min Scan# 1300
 Delta R.T. 0.00 min
 Lab File: VD063115.D
 Acq: 16 Jul 2019 19:13

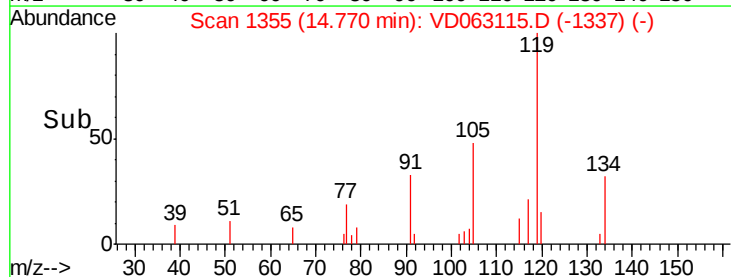
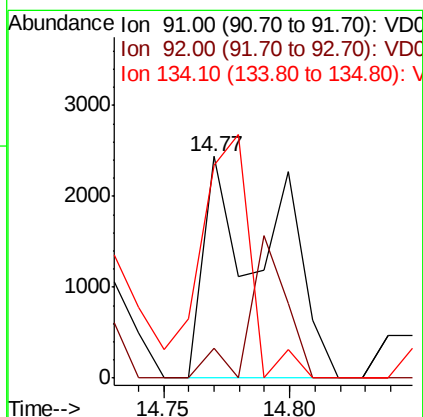
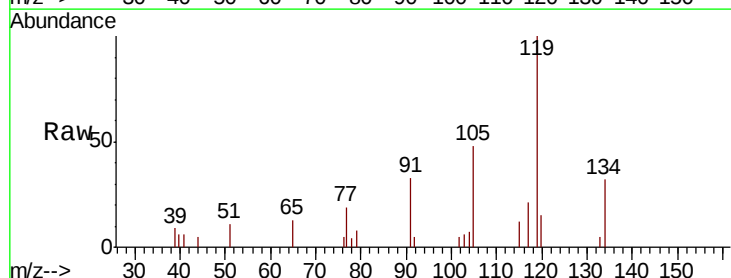
Instrument :
 MSVOA_D
 ClientSampleId :
 TR-04-071519

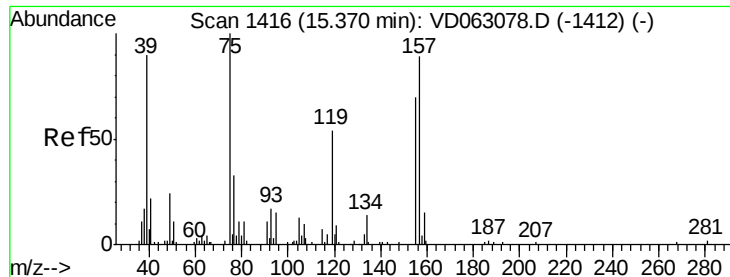
Tot Ion:105 Resp: 17664
 Ion Ratio Lower Upper
 105 100
 120 48.5 20.2 60.6



#89
 n-Butylbenzene
 Concen: 1.015 ug/l
 RT: 14.77 min Scan# 1355
 Delta R.T. -0.02 min
 Lab File: VD063115.D
 Acq: 16 Jul 2019 19:13

Tgt Ion: 91 Resp: 4520
 Ion Ratio Lower Upper
 91 100
 92 13.6 29.4 88.3#
 134 96.3 11.3 33.8#





#92

1,2-Dibromo-3-Chloropropane

Concen: 1.026 ug/l

RT: 15.37 min Scan# 1416

Delta R.T. 0.00 min

Lab File: VD063115.D

Acq: 16 Jul 2019 19:13

Instrument :

MSVOA_D

ClientSampleId :

TR-04-071519

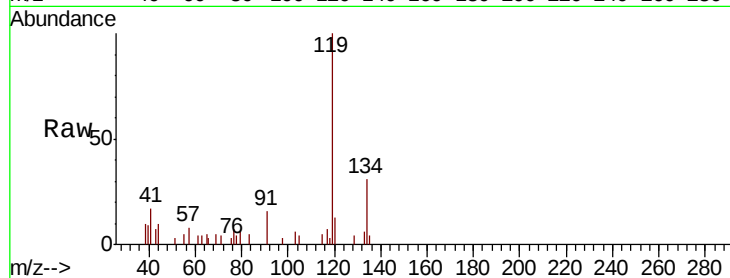
Tot Ion: 75 Resp: 177

Ion Ratio Lower Upper

75 100

155 0.0 34.8 104.3#

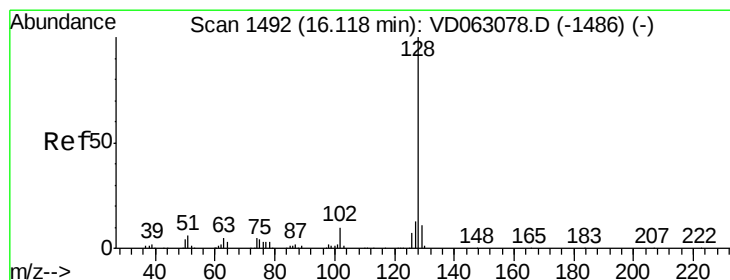
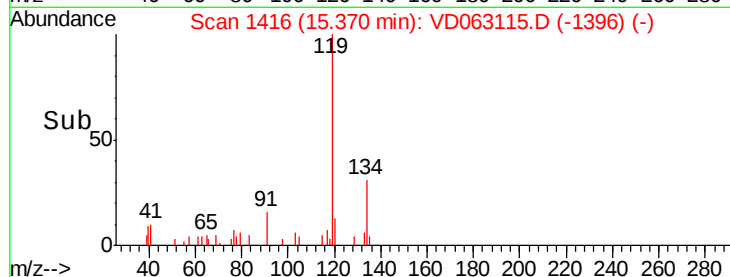
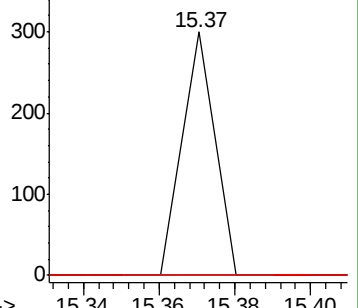
157 0.0 44.7 134.1#



Abundance Ion 75.00 (74.70 to 75.70): V

Ion 154.90 (154.60 to 155.60): V

Ion 156.85 (156.55 to 157.55): V



#95

Naphthalene

Concen: 1.927 ug/l

RT: 16.12 min Scan# 1492

Delta R.T. 0.00 min

Lab File: VD063115.D

Acq: 16 Jul 2019 19:13

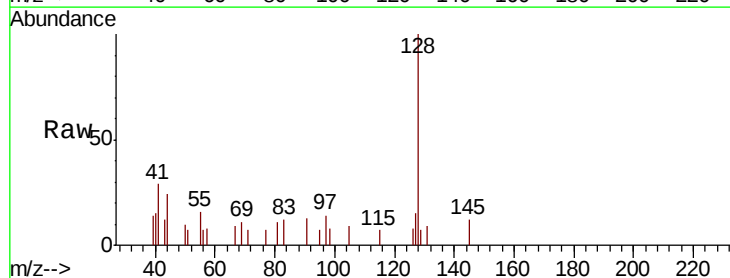
Tgt Ion: 128 Resp: 4724

Ion Ratio Lower Upper

128 100

127 15.2 10.7 16.1

129 6.7 8.7 13.1#



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

