

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD073019\
 Data File : VD063265.D
 Acq On : 31 Jul 2019 4:16
 Operator : VA/AP
 Sample : K3618-09
 Misc : 5.72g/5ml/MSVOA D/SOIL
 ALS Vial : 41 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleID :
 HD-01-073019

Quant Time: Jul 31 05:01:34 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D072919S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 30 03:04:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.05	168	1004497	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	8.22	114	1400161	50.00	ug/l	0.01
63) Chlorobenzene-d5	12.36	117	978911	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	514359	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	433963	38.93	ug/l	0.01
Spiked Amount 50.000			Recovery	=	77.86%	
35) Dibromofluoromethane	6.92	113	440214	36.82	ug/l	0.01
Spiked Amount 50.000			Recovery	=	73.64%	
50) Toluene-d8	10.40	98	863137	32.26	ug/l	0.00
Spiked Amount 50.000			Recovery	=	64.52%	
62) 4-Bromofluorobenzene	13.55	95	375890	30.83	ug/l	0.00
Spiked Amount 50.000			Recovery	=	61.66%	

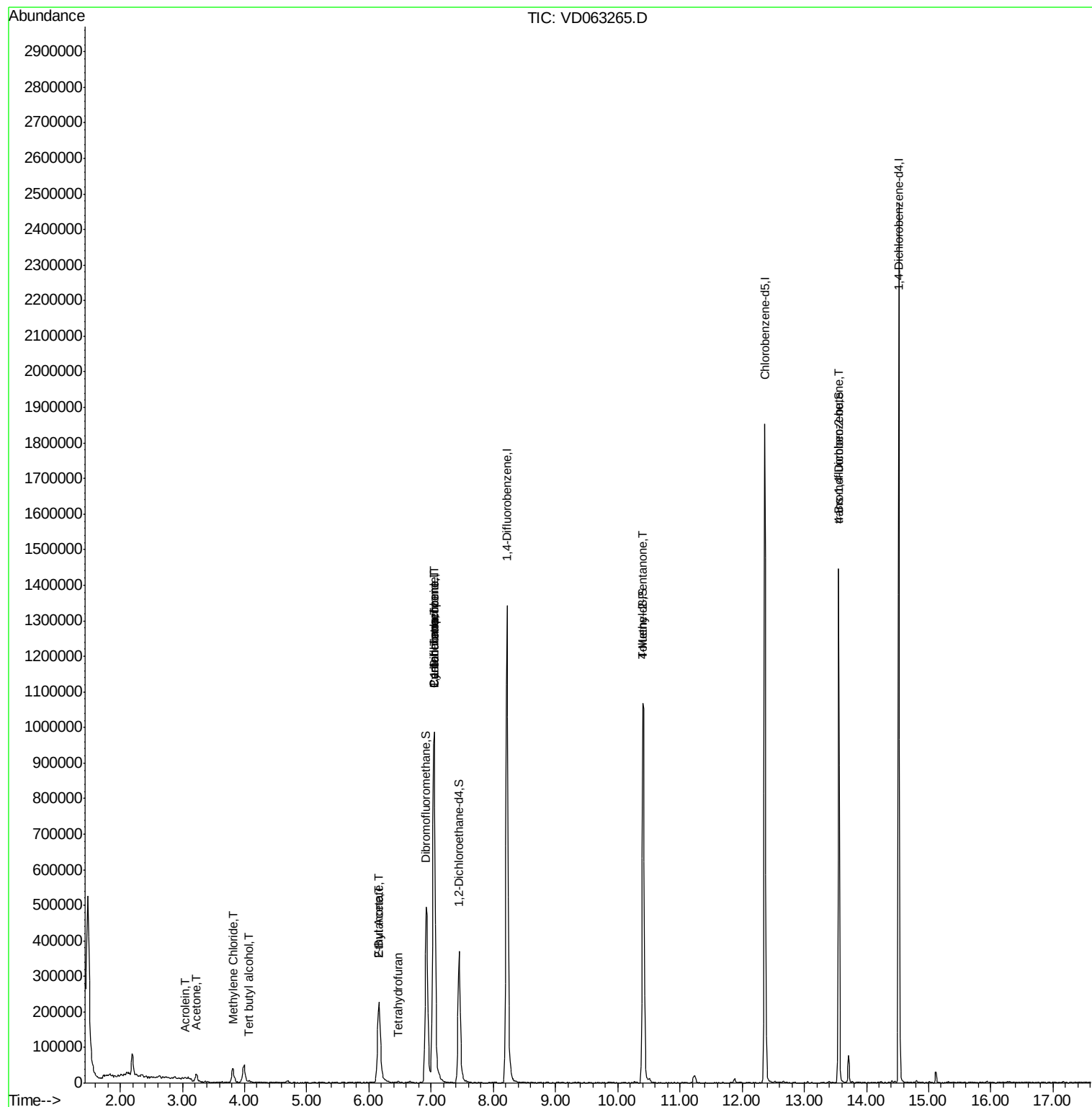
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.08	59	6205	12.686	ug/l #	69
13) Acrolein	3.04	56	679	1.442	ug/l	96
16) Acetone	3.22	43	44021	20.271	ug/l	96
20) Methylene Chloride	3.81	84	24064	2.741	ug/l #	89
25) 2-Butanone	6.16	43	21066	9.666	ug/l #	66
29) Tetrahydrofuran	6.48	42	1736	1.682	ug/l #	65
31) Cyclohexane	7.04	56	22598	2.276	ug/l #	1
36) 1,1-Dichloropropene	7.04	75	75527	5.911	ug/l #	52
37) Ethyl Acetate	6.16	43	21448	3.736	ug/l #	35
38) Carbon Tetrachloride	7.05	117	97051	5.045	ug/l #	15
51) 4-Methyl-2-Pentanone	10.40	43	5740	1.151	ug/l #	1
81) trans-1,4-Dichloro-2-buten	13.55	75	173330	101.035	ug/l #	3

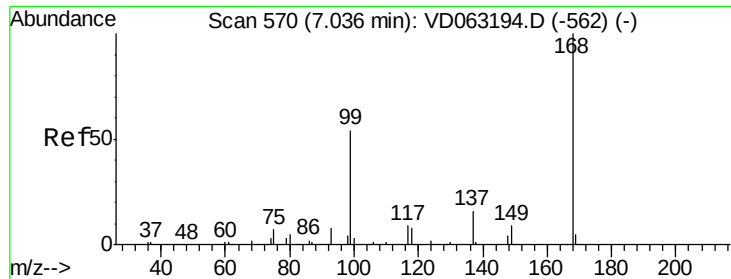
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD073019\
Data File : VD063265.D
Acq On : 31 Jul 2019 4:16
Operator : VA/AP
Sample : K3618-09
Misc : 5.72g/5ml/MSVOA D/SOIL
ALS Vial : 41 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
HD-01-073019

Quant Time: Jul 31 05:01:34 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D072919S.M
Quant Title : SW846 8260
QLast Update : Tue Jul 30 03:04:50 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 571

Delta R.T. 0.01 min

Lab File: VD063265.D

Acq: 31 Jul 2019 4:16

Instrument :

MSVOA_D

ClientSampleId :

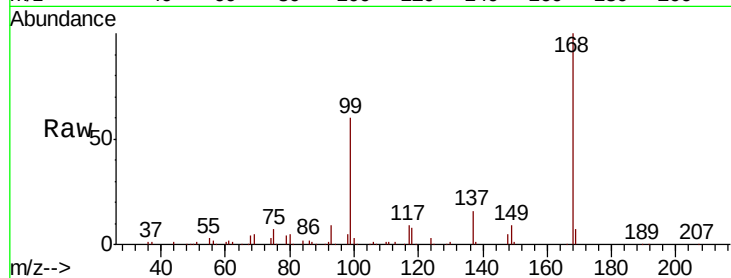
HD-01-073019

Tot Ion:168 Resp: 1004497

Ion Ratio Lower Upper

168 100

99 59.7 43.7 65.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.05

400000

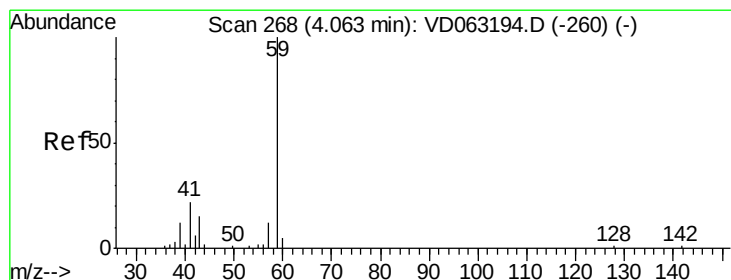
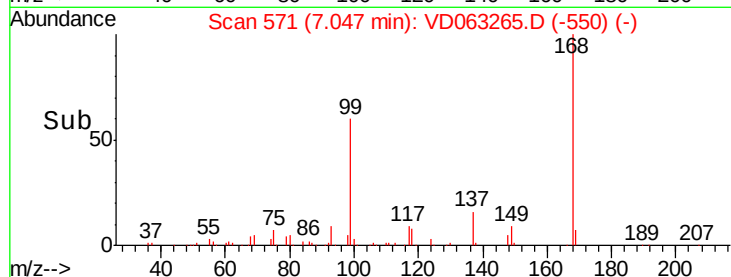
300000

200000

100000

0

Time-->



#11

Tert butyl alcohol

Concen: 12.686 ug/l

RT: 4.08 min Scan# 270

Delta R.T. 0.02 min

Lab File: VD063265.D

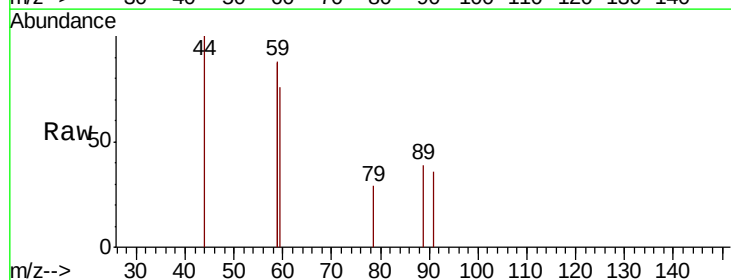
Acq: 31 Jul 2019 4:16

Tgt Ion: 59 Resp: 6205

Ion Ratio Lower Upper

59 100

57 0.0 9.6 14.4#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC

12000

10000

8000

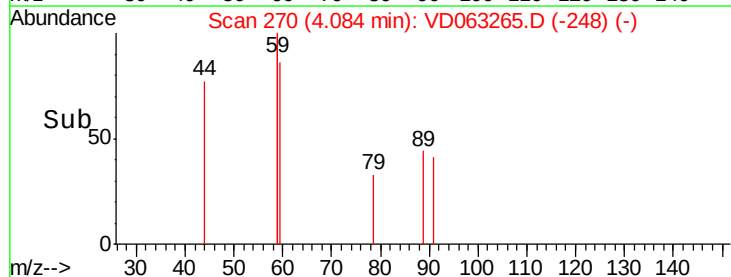
6000

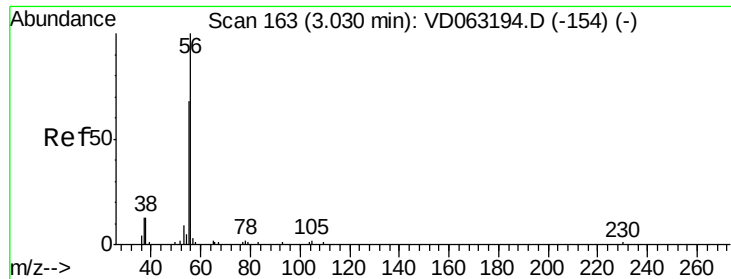
4000

2000

0

Time-->





#13

Acrolein

Concen: 1.442 ug/l

RT: 3.04 min Scan# 164

Delta R.T. 0.01 min

Lab File: VD063265.D

Acq: 31 Jul 2019 4:16

Instrument :

MSVOA_D

ClientSampleId :

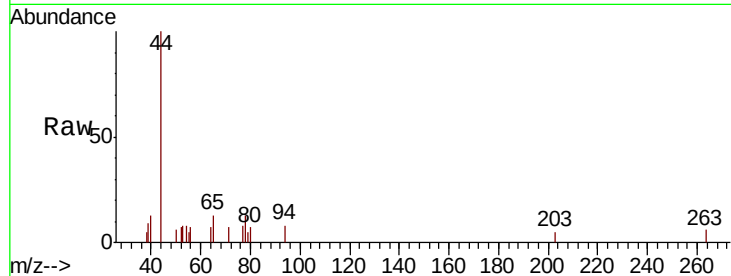
HD-01-073019

Tot Ion: 56 Resp: 679

Ion Ratio Lower Upper

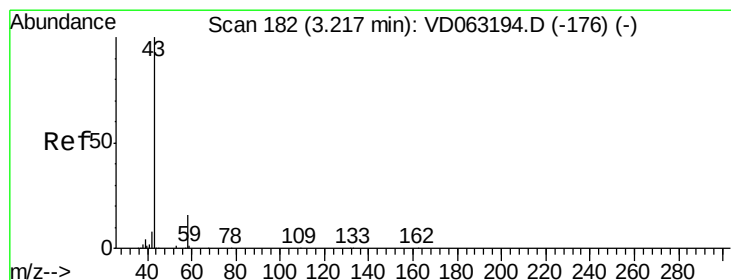
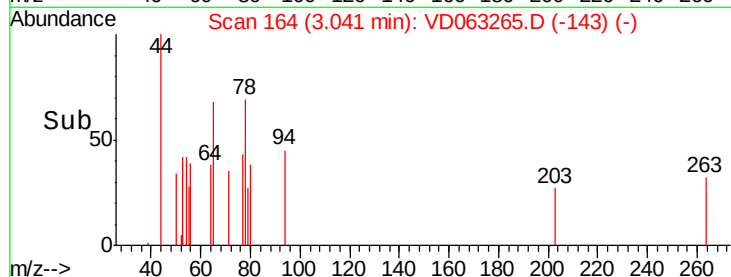
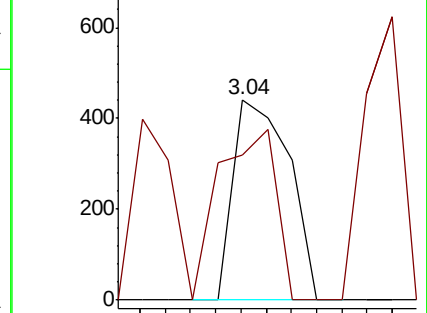
56 100

55 72.3 55.3 82.9



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC



#16

Acetone

Concen: 20.271 ug/l

RT: 3.22 min Scan# 182

Delta R.T. 0.00 min

Lab File: VD063265.D

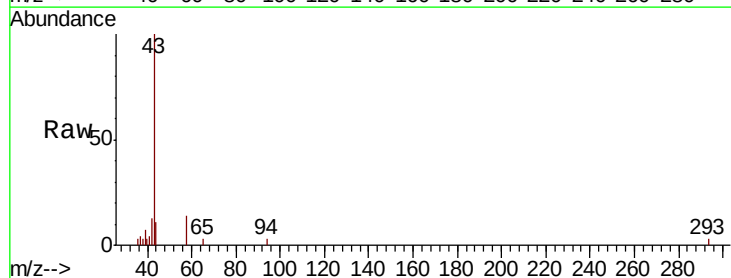
Acq: 31 Jul 2019 4:16

Tgt Ion: 43 Resp: 44021

Ion Ratio Lower Upper

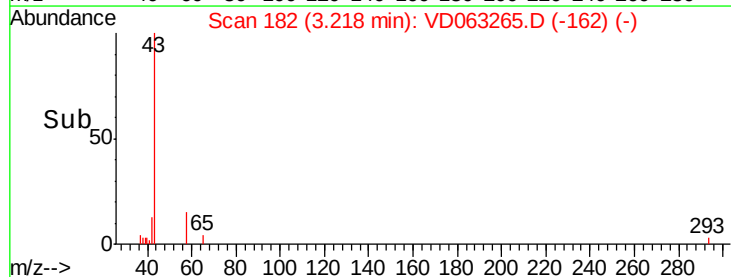
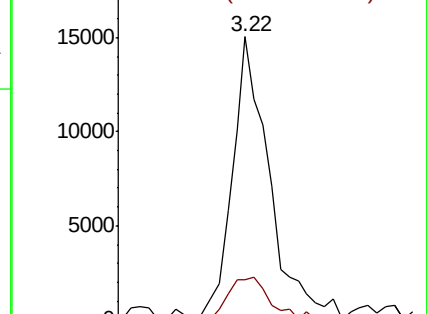
43 100

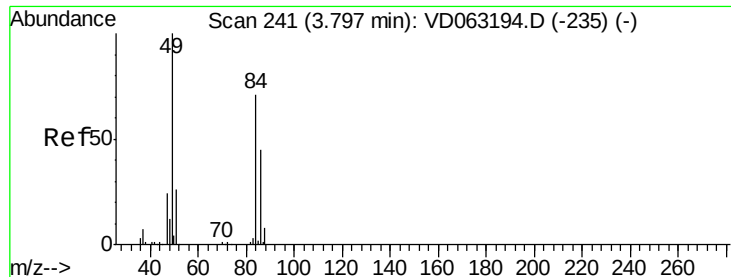
58 14.4 13.0 19.4



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

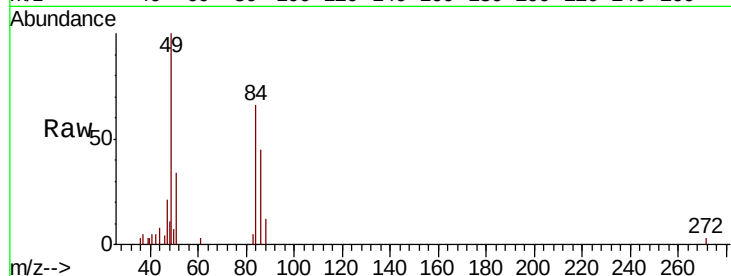




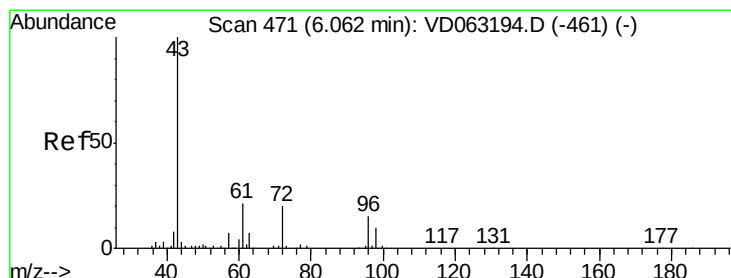
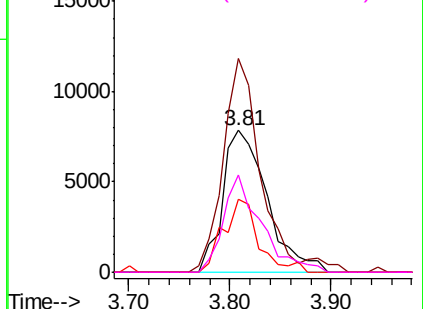
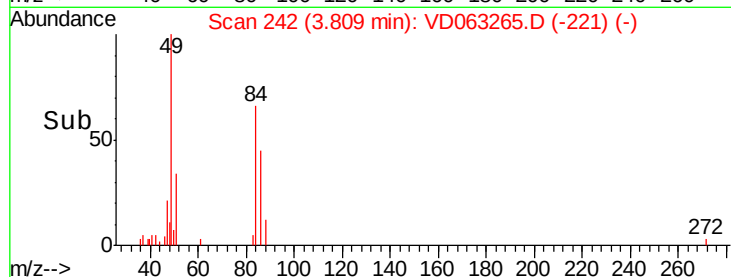
#20
Methvlene Chloride
Concen: 2.741 ug/l
RT: 3.81 min Scan# 242
Delta R.T. 0.01 min
Lab File: VD063265.D
Acq: 31 Jul 2019 4:16

Instrument :
MSVOA_D
ClientSampleId :
HD-01-073019

Tot Ion: 84 Resp: 24064
Ion Ratio Lower Upper
84 100
49 150.9 112.5 168.7
51 51.9 29.6 44.4#
86 68.6 50.4 75.6

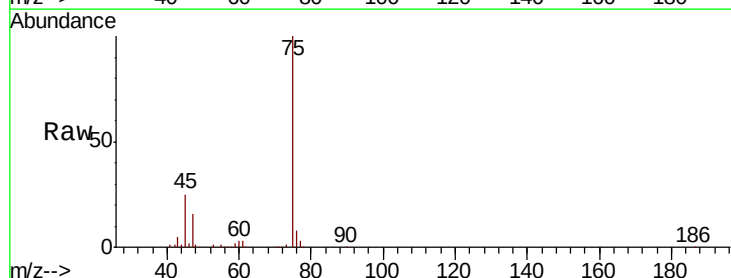


Abundance Ion 83.95 (83.65 to 84.65): VDC
Ion 48.90 (48.60 to 49.60): VDC
Ion 50.90 (50.60 to 51.60): VDC
Ion 85.90 (85.60 to 86.60): VDC

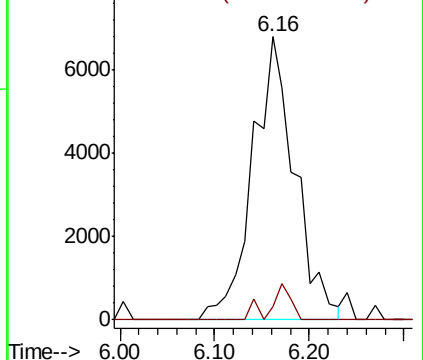
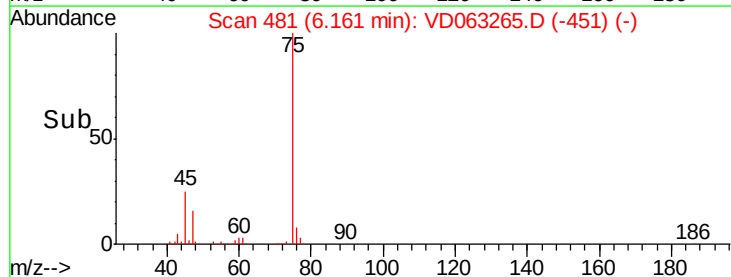


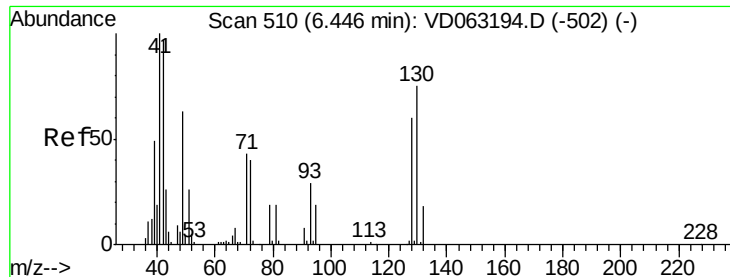
#25
2-Butanone
Concen: 9.666 ug/l
RT: 6.16 min Scan# 481
Delta R.T. 0.10 min
Lab File: VD063265.D
Acq: 31 Jul 2019 4:16

Tgt Ion: 43 Resp: 21066
Ion Ratio Lower Upper
43 100
72 4.6 16.3 24.5#



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 72.00 (71.70 to 72.70): VDC





#29

Tetrahydrofuran

Concen: 1.682 ug/l

RT: 6.48 min Scan# 513

Delta R.T. 0.03 min

Lab File: VD063265.D

Acq: 31 Jul 2019 4:16

Instrument :

MSVOA_D

ClientSampleId :

HD-01-073019

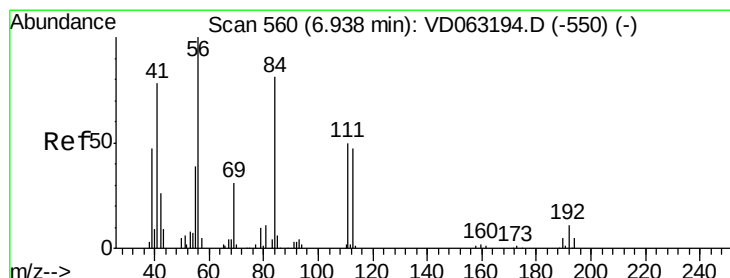
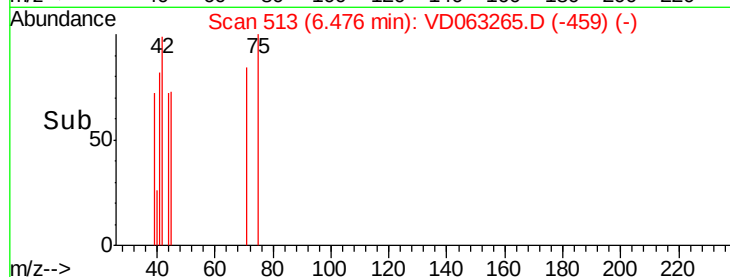
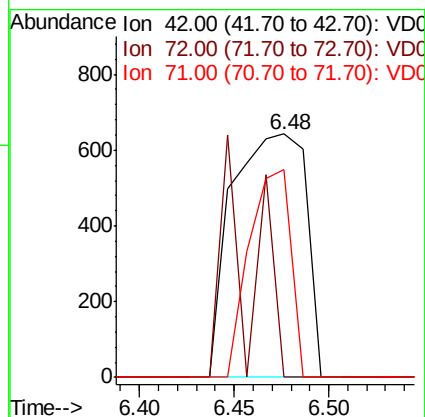
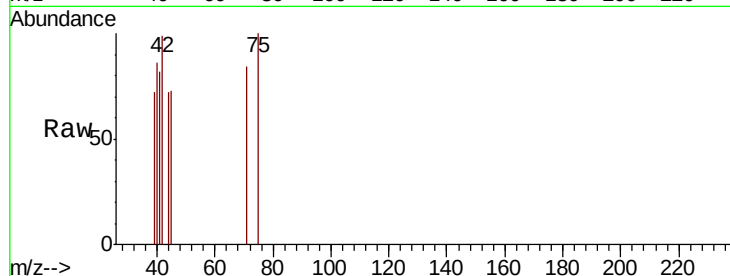
Tot Ion: 42 Resp: 1736

Ion Ratio Lower Upper

42 100

72 0.0 33.4 50.2#

71 47.8 35.7 53.5



#31

Cyclohexane

Concen: 2.276 ug/l

RT: 7.04 min Scan# 570

Delta R.T. 0.10 min

Lab File: VD063265.D

Acq: 31 Jul 2019 4:16

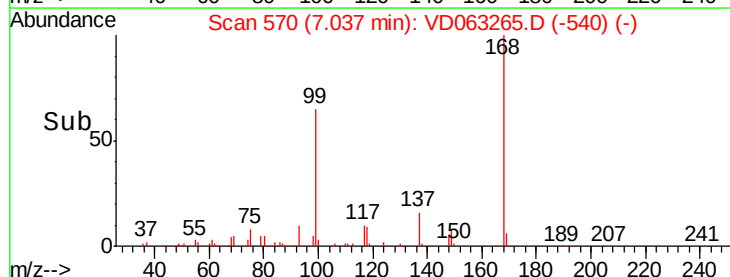
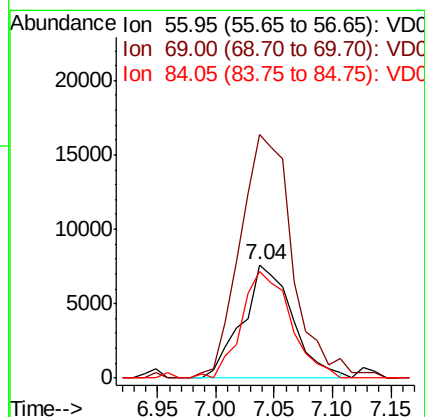
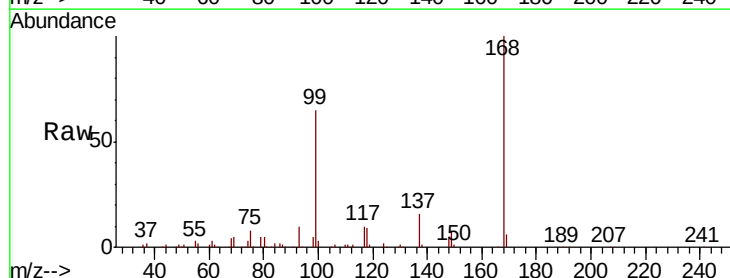
Tgt Ion: 56 Resp: 22598

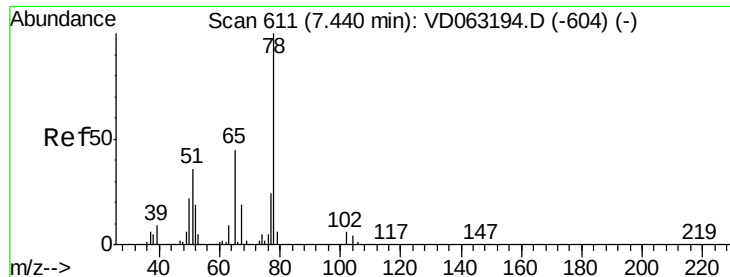
Ion Ratio Lower Upper

56 100

69 214.4 24.5 36.7#

84 93.6 64.9 97.3

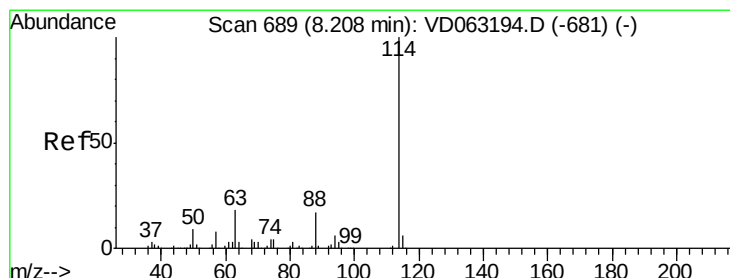
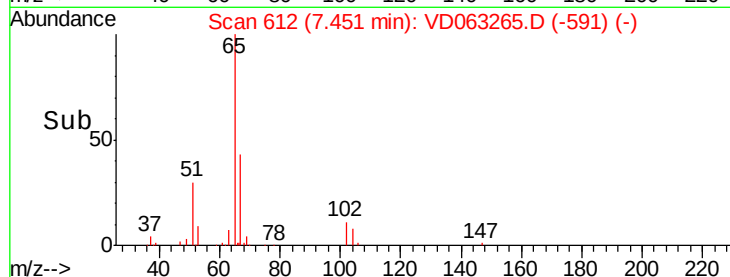
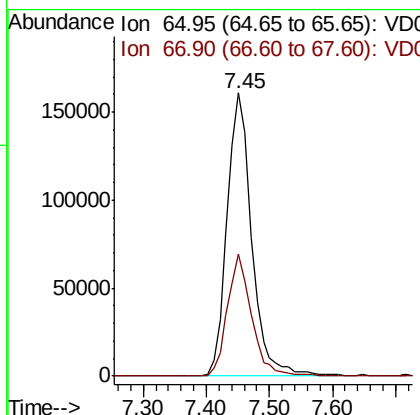
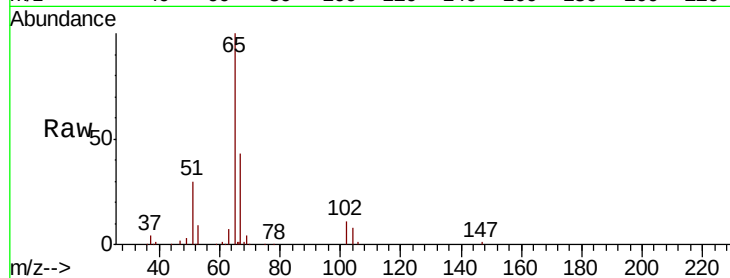




#33
 1,2-Dichloroethane-d4
 Concen: 38.935 ug/l
 RT: 7.45 min Scan# 612
 Delta R.T. 0.01 min
 Lab File: VD063265.D
 Acq: 31 Jul 2019 4:16

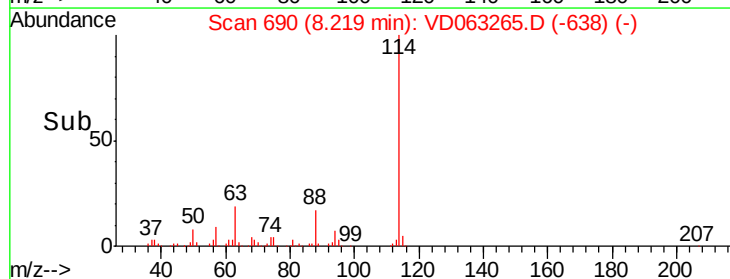
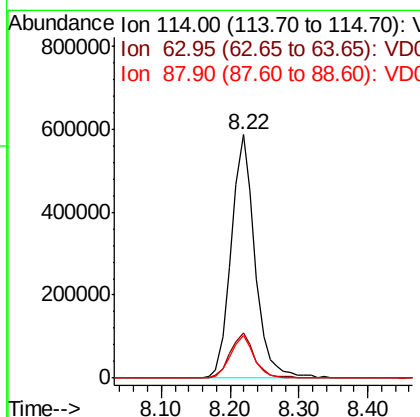
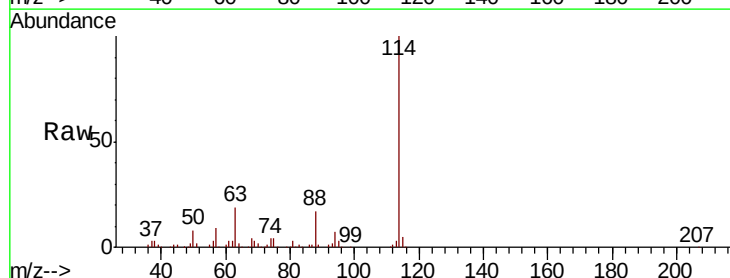
Instrument :
 MSVOA_D
 ClientSampleId :
 HD-01-073019

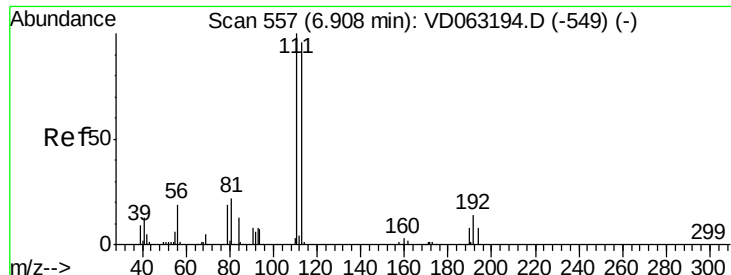
Tot Ion: 65 Resp: 433963
 Ion Ratio Lower Upper
 65 100
 67 43.3 0.0 85.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.22 min Scan# 690
 Delta R.T. 0.01 min
 Lab File: VD063265.D
 Acq: 31 Jul 2019 4:16

Tgt Ion: 114 Resp: 1400161
 Ion Ratio Lower Upper
 114 100
 63 18.6 0.0 35.2
 88 17.3 0.0 34.6

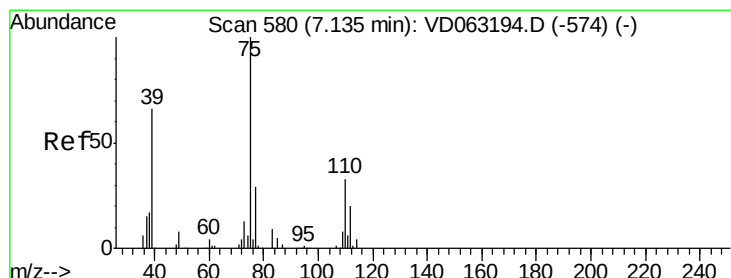
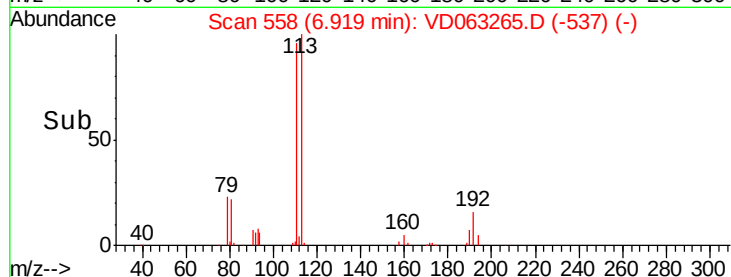
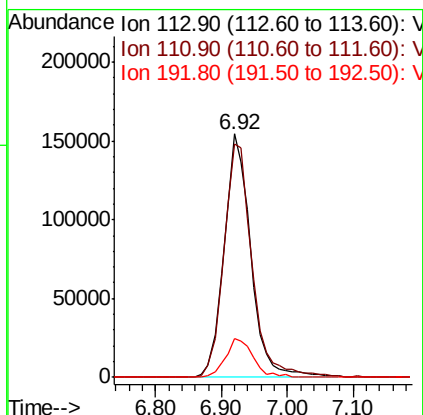
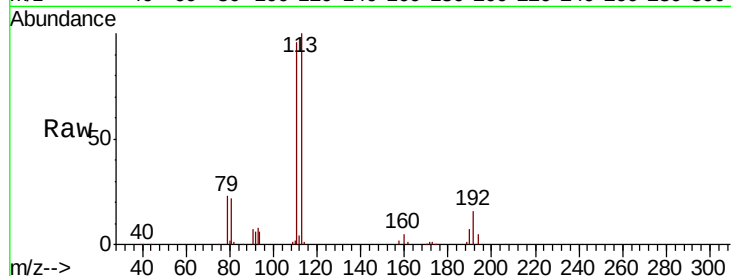




#35
 Dibromofluoromethane
 Concen: 36.824 ug/l
 RT: 6.92 min Scan# 558
 Delta R.T. 0.01 min
 Lab File: VD063265.D
 Acq: 31 Jul 2019 4:16

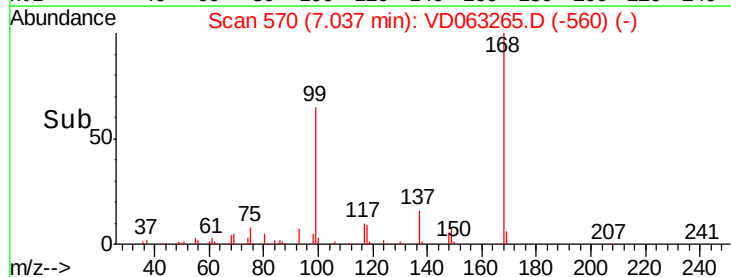
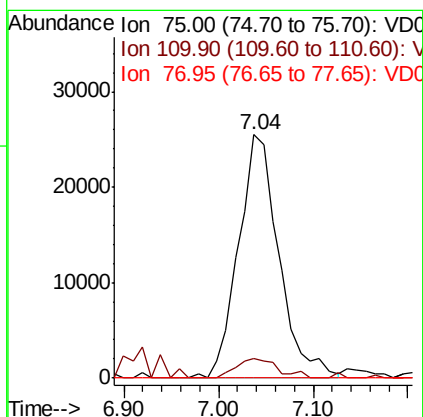
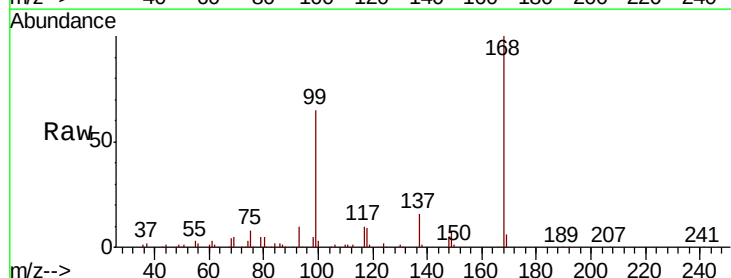
Instrument :
 MSVOA_D
 ClientSampleId :
 HD-01-073019

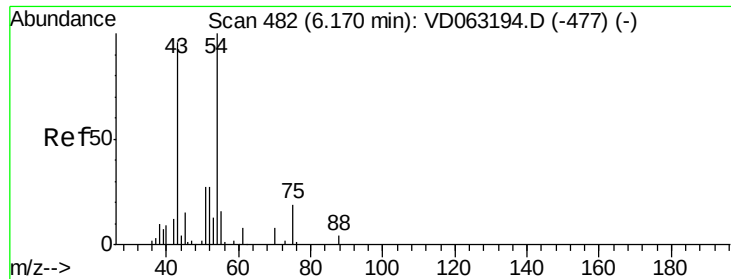
Tot Ion	Ratio	Lower	Upper
113	100		
111	95.7	83.2	124.8
192	15.8	11.8	17.8



#36
 1,1-Dichloropropene
 Concen: 5.911 ug/l
 RT: 7.04 min Scan# 570
 Delta R.T. -0.10 min
 Lab File: VD063265.D
 Acq: 31 Jul 2019 4:16

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.1	16.1	48.2#
77	0.0	22.7	34.1#





#37

Ethyl Acetate

Concen: 3.736 ug/l

RT: 6.16 min Scan# 481

Delta R.T. -0.01 min

Lab File: VD063265.D

Acq: 31 Jul 2019 4:16

Instrument :

MSVOA_D

ClientSampleId :

HD-01-073019

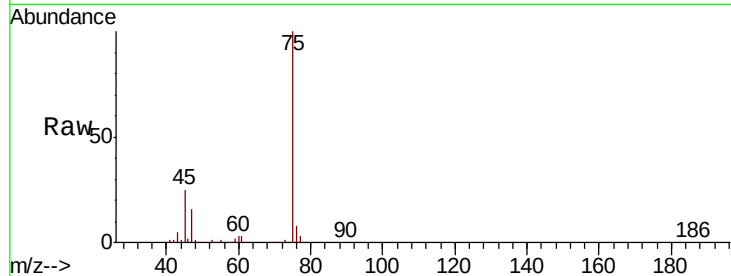
Tot Ion: 43 Resp: 21448

Ion Ratio Lower Upper

43 100

61 52.2 11.3 16.9#

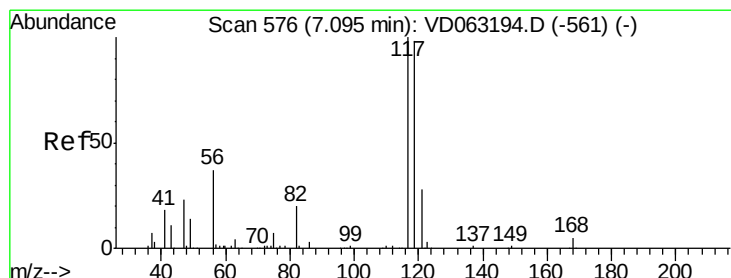
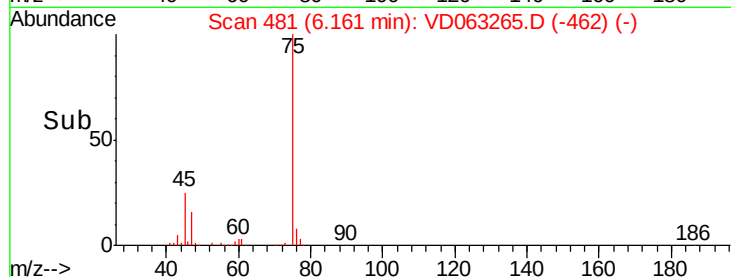
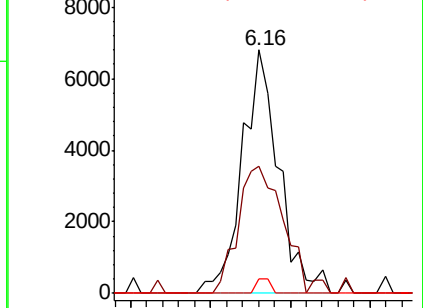
70 5.7 5.1 7.7



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: 5.045 ug/l

RT: 7.05 min Scan# 571

Delta R.T. -0.05 min

Lab File: VD063265.D

Acq: 31 Jul 2019 4:16

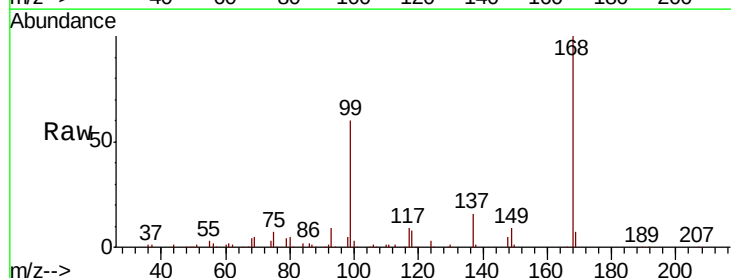
Tgt Ion: 117 Resp: 97051

Ion Ratio Lower Upper

117 100

119 4.6 78.2 117.2#

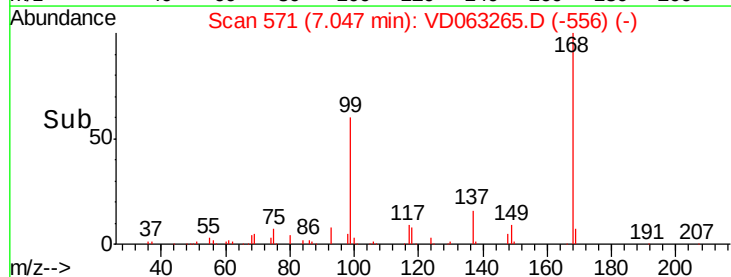
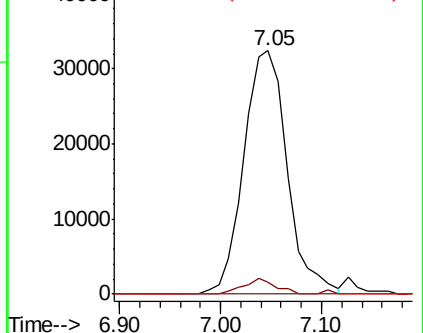
121 0.0 22.1 33.1#

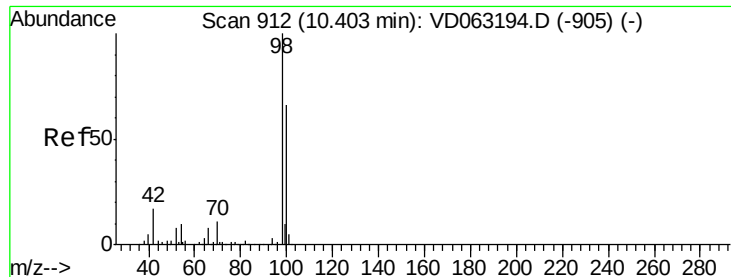


Abundance Ion 116.85 (116.55 to 117.55): V

Ion 118.85 (118.55 to 119.55): V

Ion 120.85 (120.55 to 121.55): V





#50

Toluene-d8

Concen: 32.262 ug/l

RT: 10.40 min Scan# 912

Delta R.T. 0.00 min

Lab File: VD063265.D

Acq: 31 Jul 2019 4:16

Instrument :

MSVOA_D

ClientSampleId :

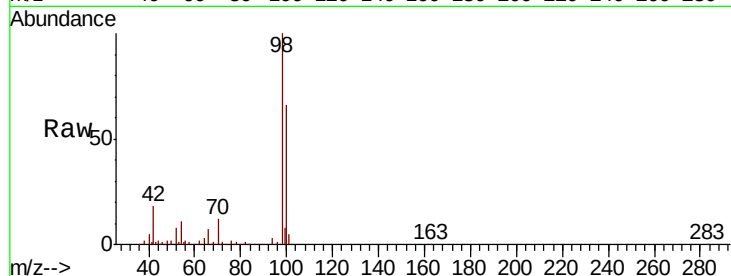
HD-01-073019

Tot Ion: 98 Resp: 863137

Ion Ratio Lower Upper

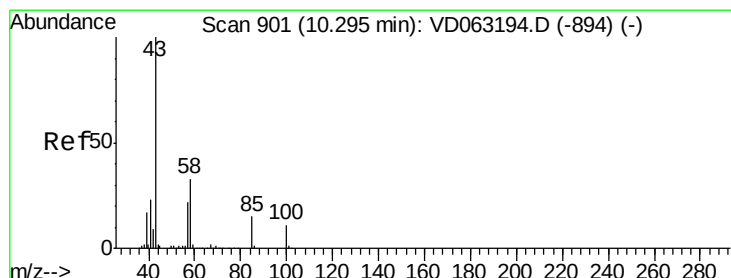
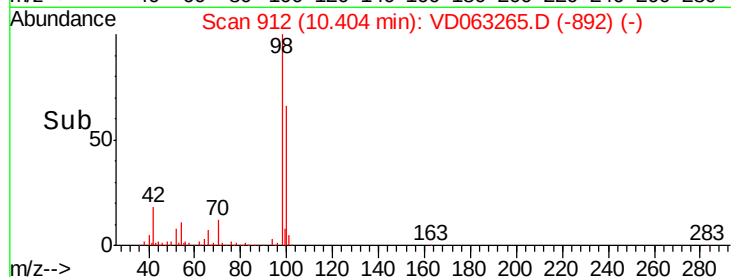
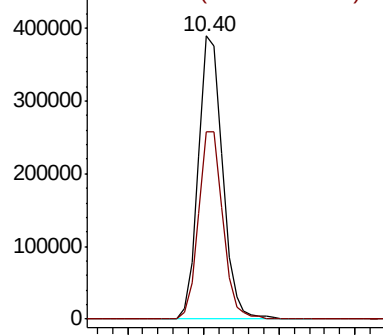
98 100

100 66.3 53.2 79.8



Abundance Ion 98.05 (97.75 to 98.75): VDC

Ion 100.05 (99.75 to 100.75): VDC



#51

4-Methyl-2-Pentanone

Concen: 1.151 ug/l

RT: 10.40 min Scan# 912

Delta R.T. 0.11 min

Lab File: VD063265.D

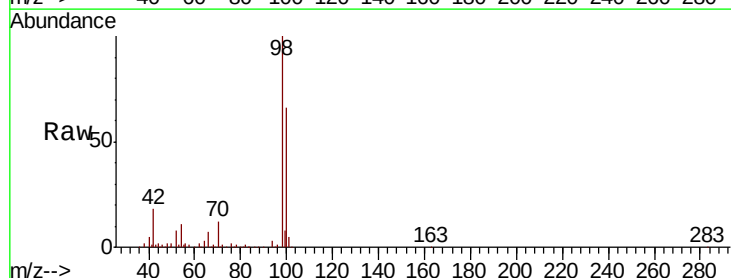
Acq: 31 Jul 2019 4:16

Tgt Ion: 43 Resp: 5740

Ion Ratio Lower Upper

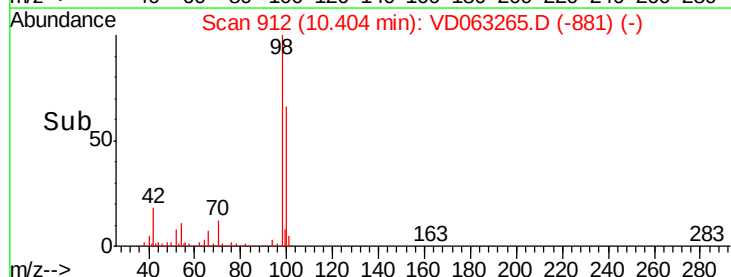
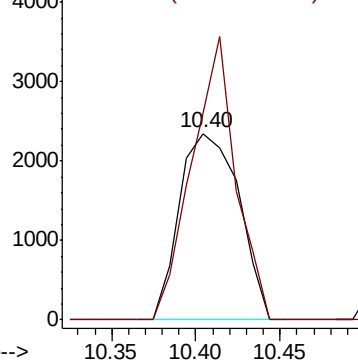
43 100

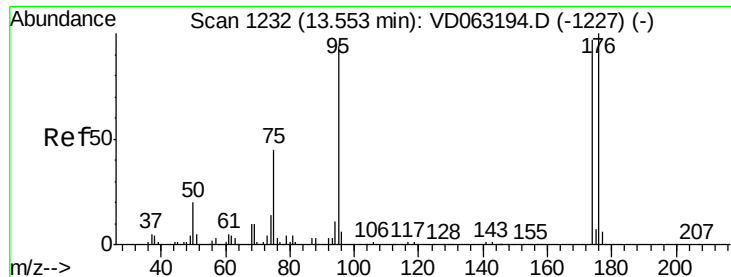
58 111.0 26.2 39.2#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC





#62

4-Bromofluorobenzene

Concen: 30.832 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.00 min

Lab File: VD063265.D

Acq: 31 Jul 2019 4:16

Instrument :

MSVOA_D

ClientSampleId :

HD-01-073019

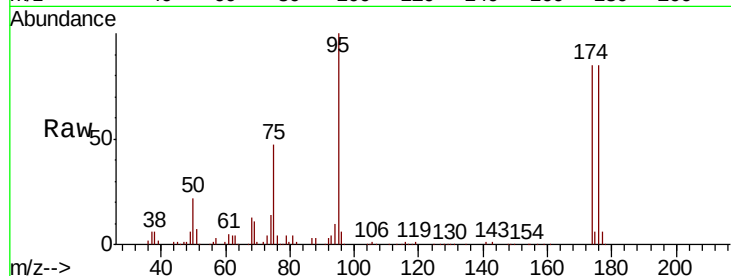
Tot Ion: 95 Resp: 375890

Ion Ratio Lower Upper

95 100

174 84.9 0.0 205.4

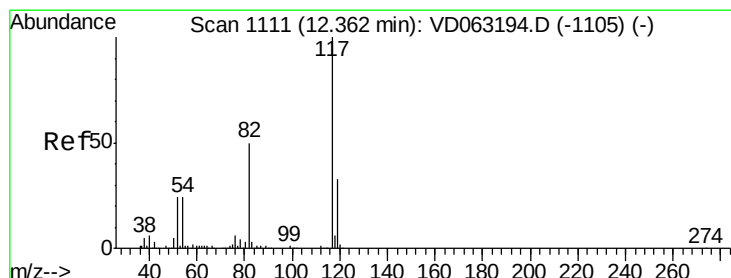
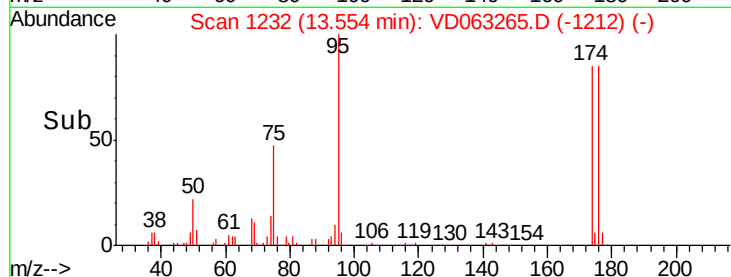
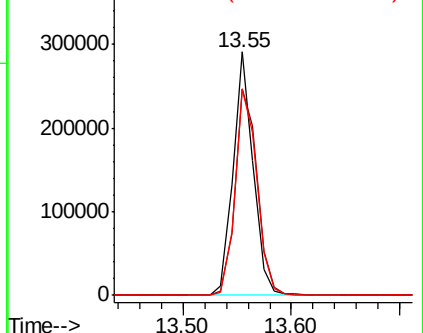
176 85.0 0.0 211.8



Abundance Ion 95.00 (94.70 to 95.70): V

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 12.36 min Scan# 1111

Delta R.T. 0.00 min

Lab File: VD063265.D

Acq: 31 Jul 2019 4:16

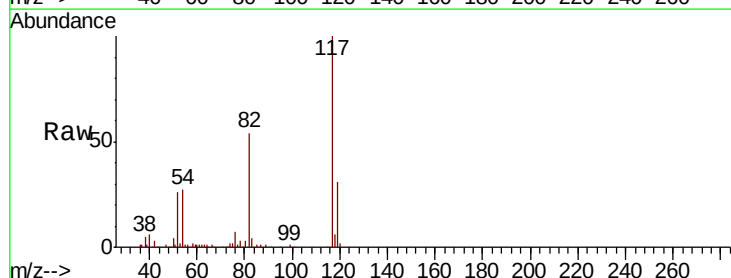
Tgt Ion: 117 Resp: 978911

Ion Ratio Lower Upper

117 100

82 53.8 40.1 60.1

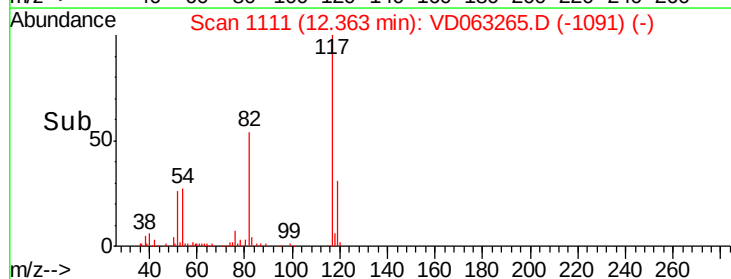
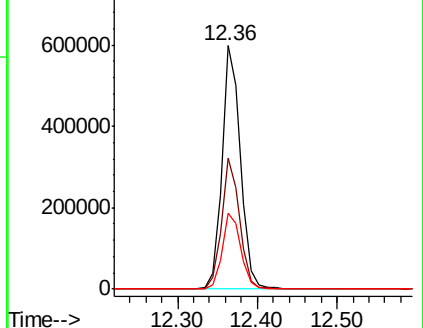
119 31.3 26.5 39.7

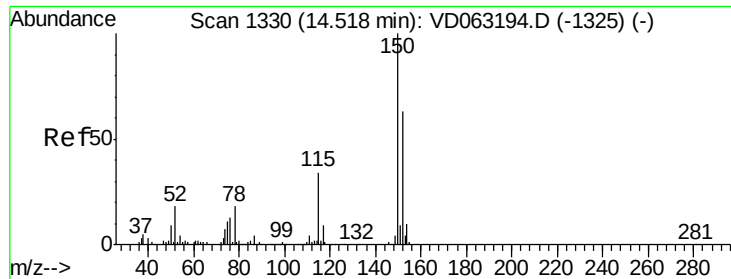


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.52 min Scan# 1330

Delta R.T. 0.00 min

Lab File: VD063265.D

Acq: 31 Jul 2019 4:16

Instrument :

MSVOA_D

ClientSampleId :

HD-01-073019

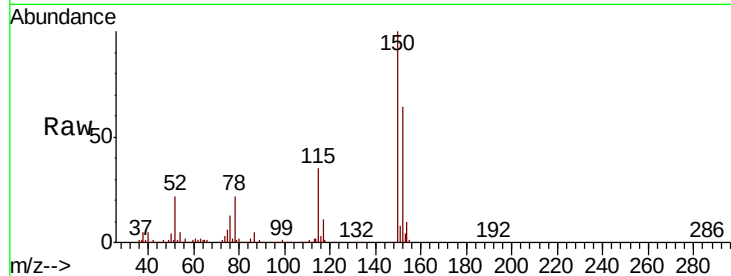
Tot Ion:152 Resp: 514359

Ion Ratio Lower Upper

152 100

115 54.6 27.5 82.4

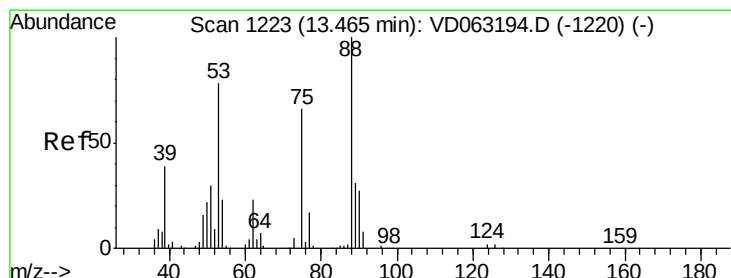
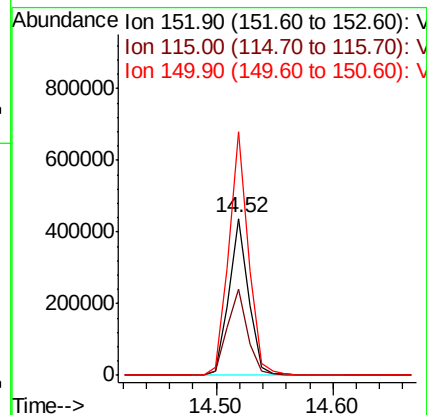
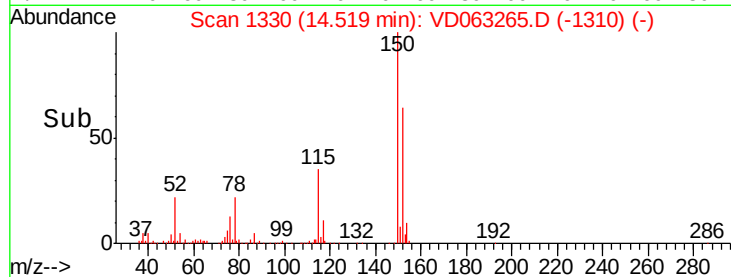
150 155.1 0.0 320.6



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



#81

trans-1,4-Dichloro-2-butene

Concen: 101.035 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.09 min

Lab File: VD063265.D

Acq: 31 Jul 2019 4:16

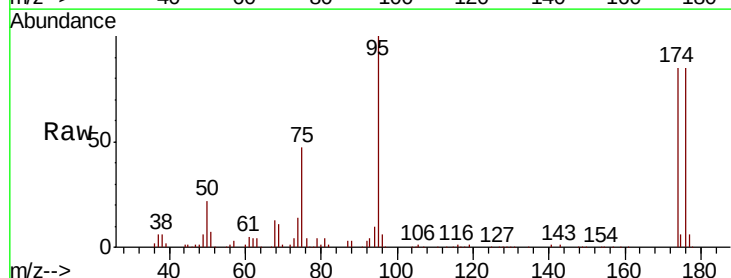
Tgt Ion: 75 Resp: 173330

Ion Ratio Lower Upper

75 100

53 0.0 94.9 142.3#

89 0.0 37.4 56.0#



Abundance Ion 75.00 (74.70 to 75.70): V

Ion 53.00 (52.70 to 53.70): V

Ion 89.00 (88.70 to 89.70): V

