

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD013020\
 Data File : VD065018.D
 Acq On : 30 Jan 2020 17:39
 Operator : VA/SY
 Sample : 11318-04RE
 Misc : 5.44G/5.00ml/MSVOA D/SOIL
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 RAINEY-PARK-BH-03-A

Quant Time: Jan 31 02:23:01 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D012320S.M
 Quant Title : SW846 8260
 QLast Update : Thu Jan 23 13:45:59 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	63833	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	92561	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	102073	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	47928	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	48440	79.11	ug/l	0.00
Spiked Amount			Recovery	=	158.22%	
35) Dibromofluoromethane	7.92	113	37107	63.79	ug/l	0.00
Spiked Amount			Recovery	=	127.58%	
50) Toluene-d8	10.34	98	109577	48.81	ug/l	0.00
Spiked Amount			Recovery	=	97.62%	
62) 4-Bromofluorobenzene	12.64	95	39629	57.68	ug/l	0.00
Spiked Amount			Recovery	=	115.36%	

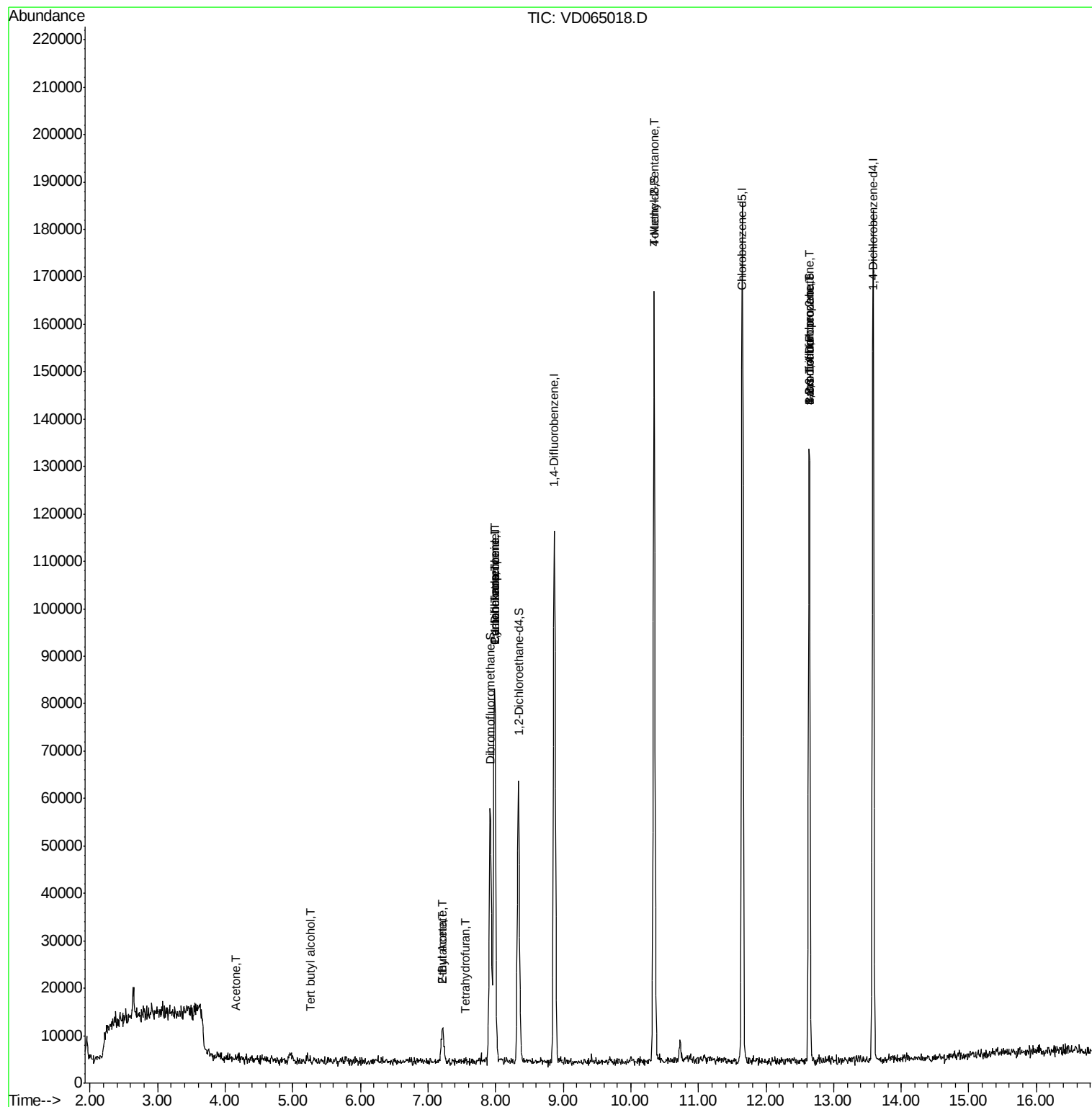
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	5.26	59	118	3.487	ug/l #	74
16) Acetone	4.16	43	145	14.614	ug/l #	45
20) Methylene Chloride	4.96	84	594	Below Cal	#	77
25) 2-Butanone	7.22	43	402	2.430	ug/l #	49
29) Tetrahydrofuran	7.56	42	206	2.018	ug/l #	34
31) Cyclohexane	7.98	56	1677	1.572	ug/l #	26
36) 1,1-Dichloropropene	7.99	75	5329	5.971	ug/l #	45
37) Ethyl Acetate	7.22	43	402	1.090	ug/l #	53
38) Carbon Tetrachloride	7.99	117	5575	5.910	ug/l #	14
51) 4-Methyl-2-Pentanone	10.34	43	609	1.738	ug/l #	1
71) Bromoform	12.64	173	451	1.041	ug/l #	1
76) 1,2,3-Trichloropropane	12.64	75	21608	54.318	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	21608	115.981	ug/l #	9

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

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ALS Vial : 17 Sample Multiplier: 1

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RAINEY-PARK-BH-03-A

Quant Time: Jan 31 02:23:01 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D012320S.M
Quant Title : SW846 8260
QLast Update : Thu Jan 23 13:45:59 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.01 min

Lab File: VD065018.D

Acq: 30 Jan 2020 17:39

Instrument :

MSVOA_D

ClientSampleId :

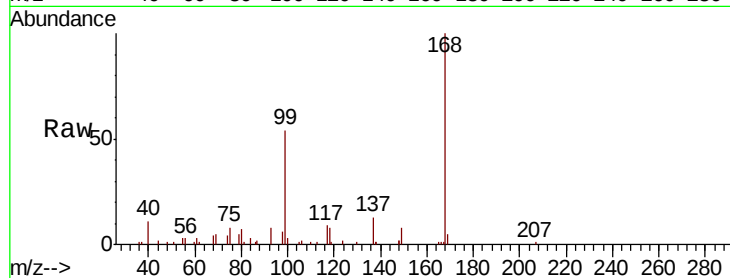
RAINEY-PARK-BH-03-A

Tot Ion:168 Resp: 63833

Ion Ratio Lower Upper

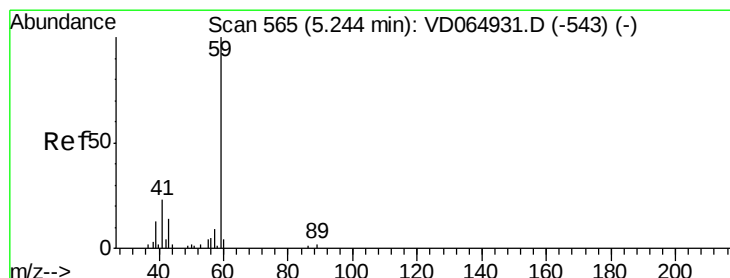
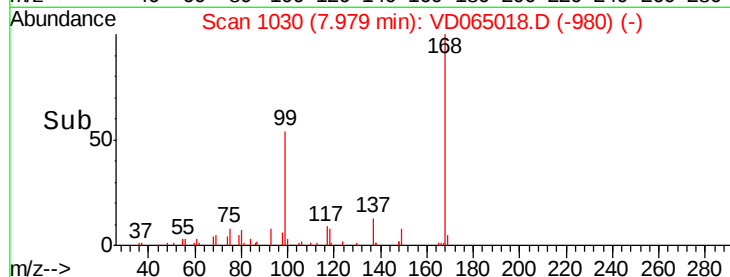
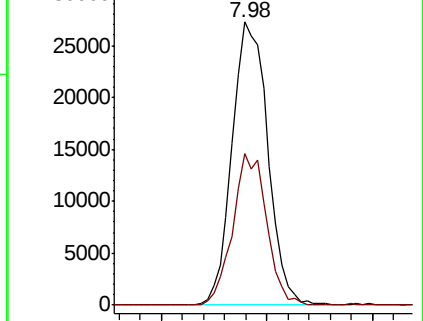
168 100

99 53.5 43.3 64.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#11

Tert butyl alcohol

Concen: 3.487 ug/l

RT: 5.26 min Scan# 567

Delta R.T. 0.01 min

Lab File: VD065018.D

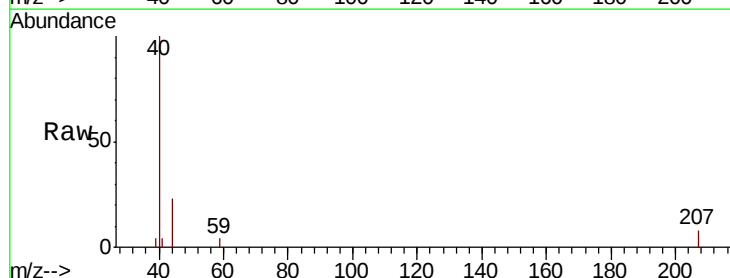
Acq: 30 Jan 2020 17:39

Tgt Ion: 59 Resp: 118

Ion Ratio Lower Upper

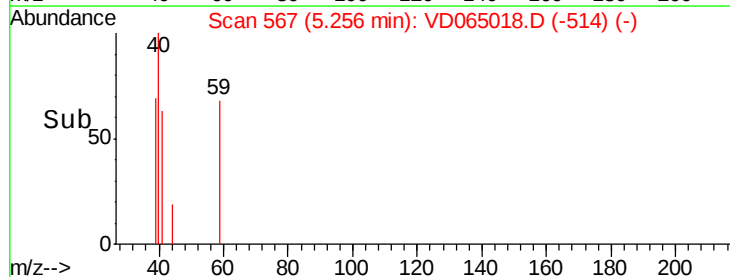
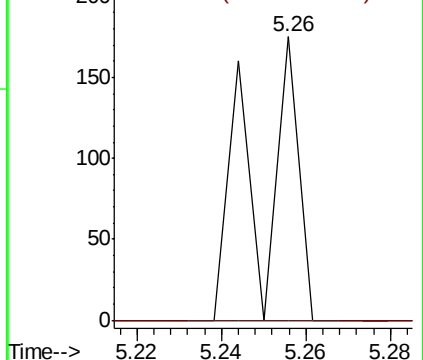
59 100

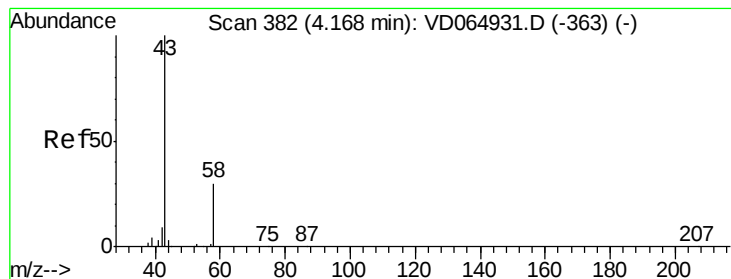
57 0.0 7.7 11.5#



Abundance Ion 59.00 (58.70 to 59.70): VDC

Ion 57.00 (56.70 to 57.70): VDC





#16

Acetone

Concen: 14.614 ug/l

RT: 4.16 min Scan# 380

Delta R.T. -0.01 min

Lab File: VD065018.D

Acq: 30 Jan 2020 17:39

Instrument :

MSVOA_D

ClientSampleId :

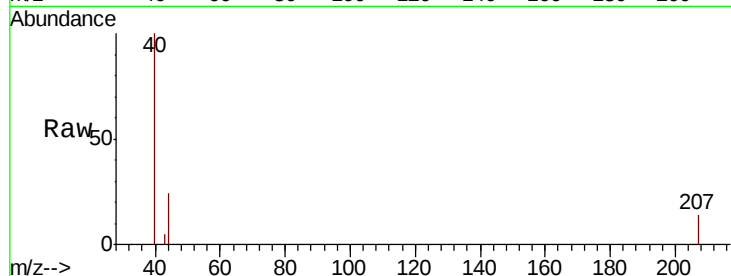
RAINEY-PARK-BH-03-A

Tot Ion: 43 Resp: 145

Ion Ratio Lower Upper

43 100

58 0.0 23.8 35.8#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

4.16

250

200

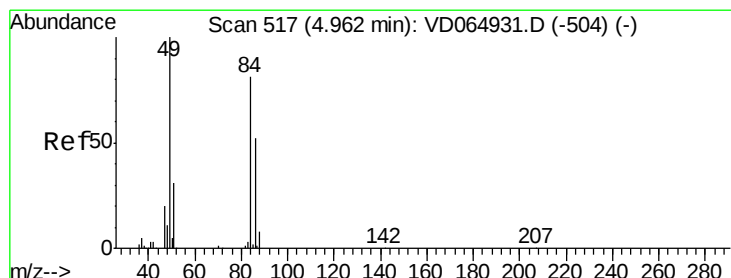
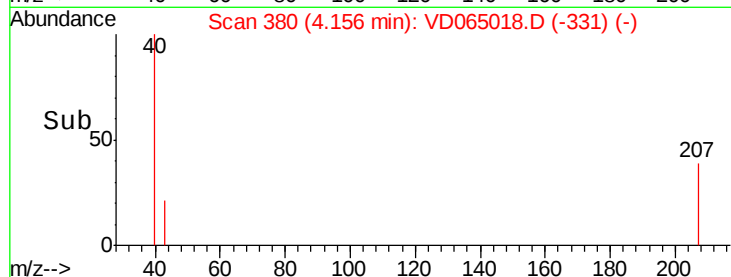
150

100

50

0

Time--> 4.14 4.15 4.16 4.17 4.18



#20

Methylene Chloride

Concen: Below Cal

RT: 4.96 min Scan# 516

Delta R.T. -0.01 min

Lab File: VD065018.D

Acq: 30 Jan 2020 17:39

Tgt Ion: 84 Resp: 594

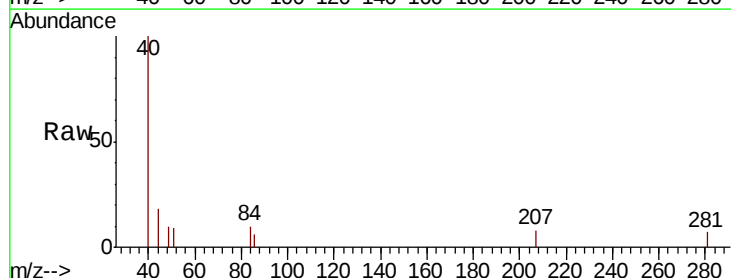
Ion Ratio Lower Upper

84 100

49 107.3 98.4 147.6

51 88.7 30.8 46.2#

86 61.2 51.0 76.6



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

1000

800

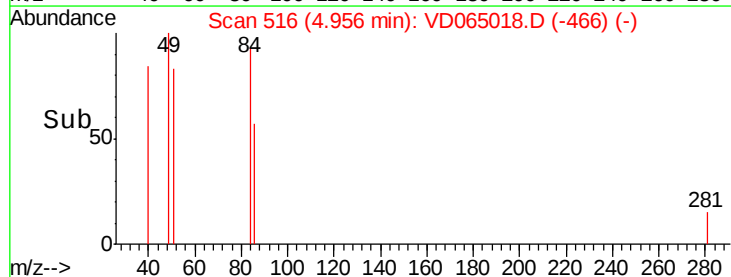
600

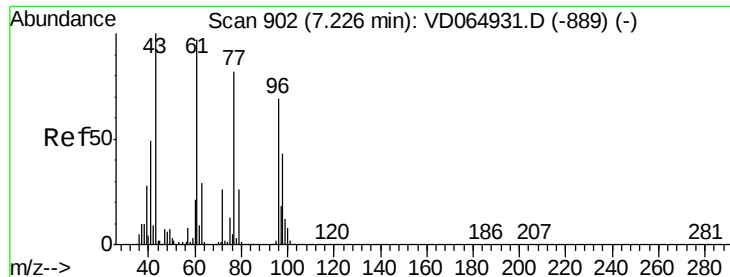
400

200

0

Time--> 4.90 4.92 4.94 4.96

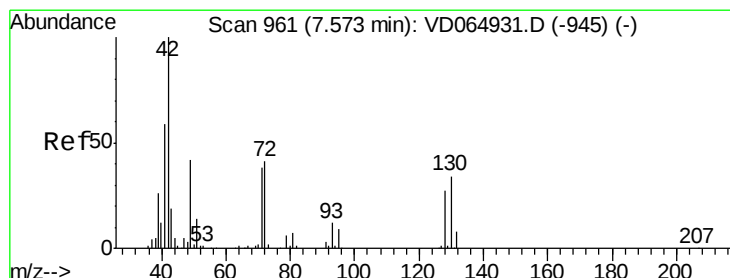
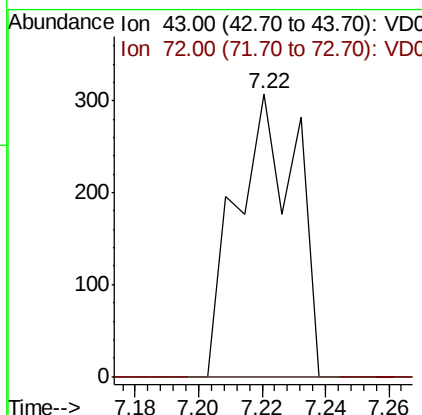
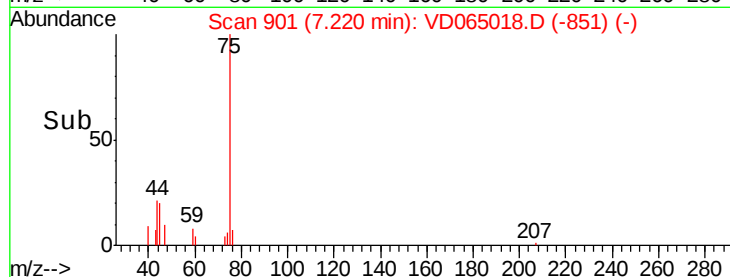
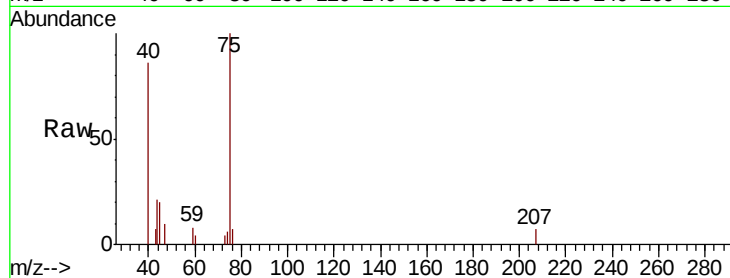




#25
2-Butanone
Concen: 2.430 ug/l
RT: 7.22 min Scan# 901
Delta R.T. -0.01 min
Lab File: VD065018.D
Acq: 30 Jan 2020 17:39

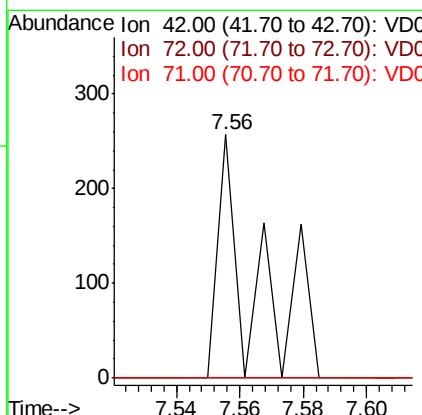
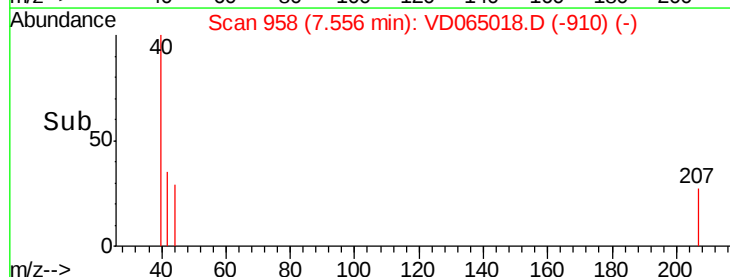
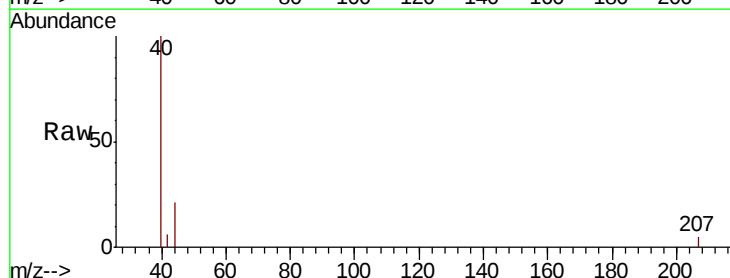
Instrument :
MSVOA_D
ClientSampleId :
RAINEY-PARK-BH-03-A

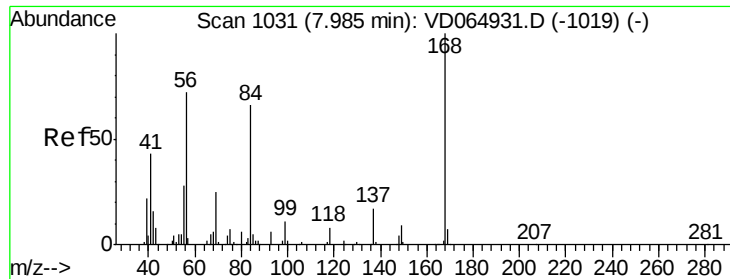
Tot Ion: 43 Resp: 402
Ion Ratio Lower Upper
43 100
72 0.0 20.6 31.0#



#29
Tetrahydrofuran
Concen: 2.018 ug/l
RT: 7.56 min Scan# 958
Delta R.T. -0.02 min
Lab File: VD065018.D
Acq: 30 Jan 2020 17:39

Tgt Ion: 42 Resp: 206
Ion Ratio Lower Upper
42 100
72 0.0 34.0 51.0#
71 0.0 31.5 47.3#

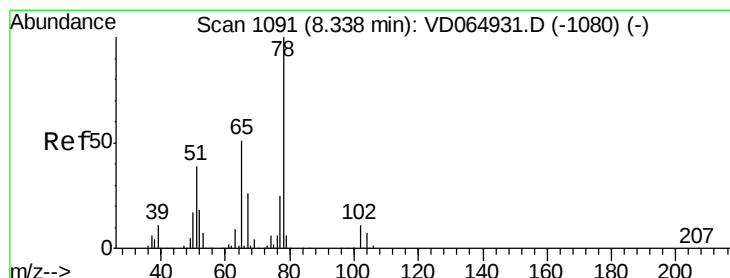
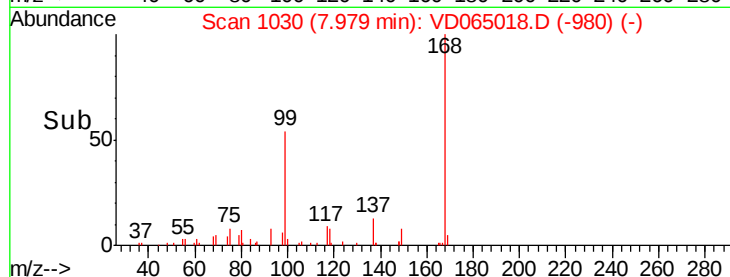
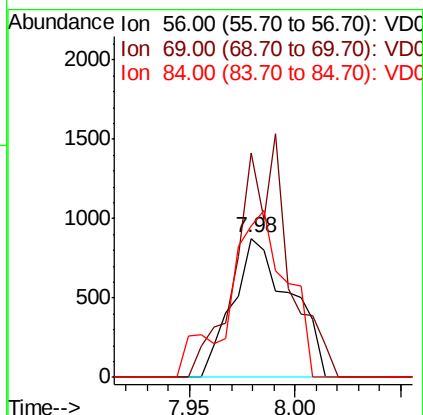
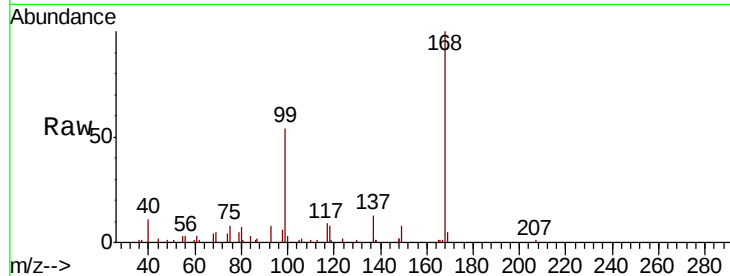




#31
Cyclohexane
Concen: 1.572 ug/l
RT: 7.98 min Scan# 1030
Delta R.T. -0.01 min
Lab File: VD065018.D
Acq: 30 Jan 2020 17:39

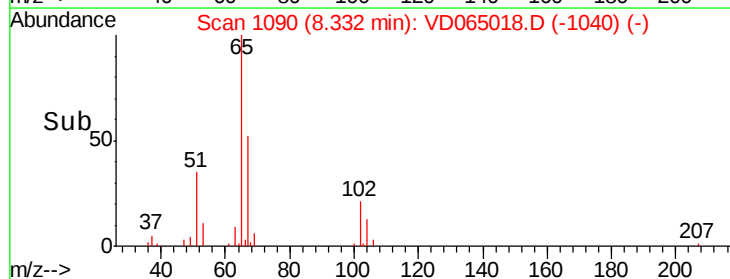
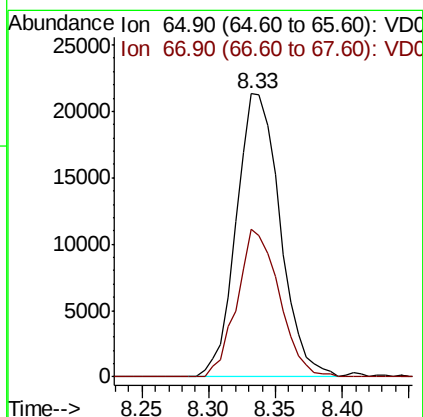
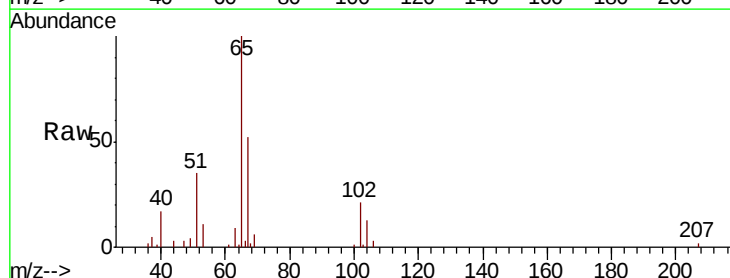
Instrument :
MSVOA_D
ClientSampleId :
RAINEY-PARK-BH-03-A

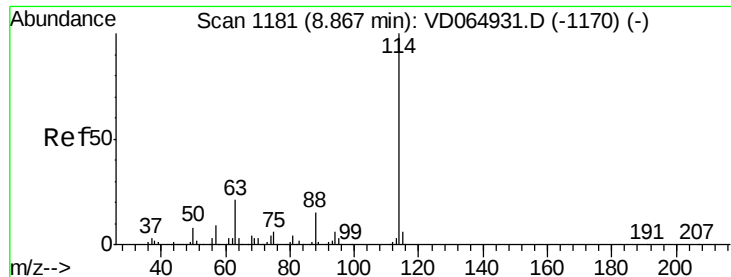
Tot Ion: 56 Resp: 1677
Ion Ratio Lower Upper
56 100
69 161.9 27.9 41.9#
84 108.7 72.8 109.2



#33
1,2-Dichloroethane-d4
Concen: 79.112 ug/l
RT: 8.33 min Scan# 1090
Delta R.T. -0.01 min
Lab File: VD065018.D
Acq: 30 Jan 2020 17:39

Tgt Ion: 65 Resp: 48440
Ion Ratio Lower Upper
65 100
67 50.2 0.0 103.6

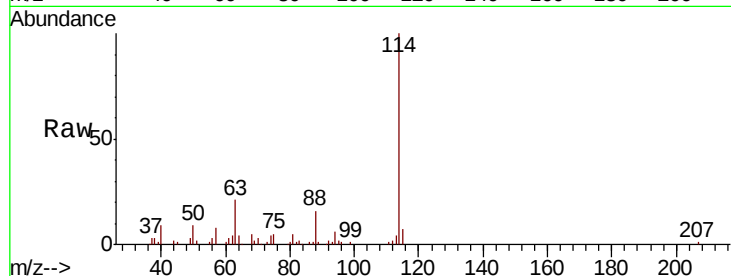




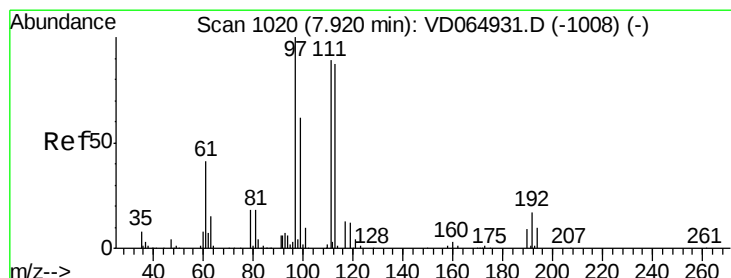
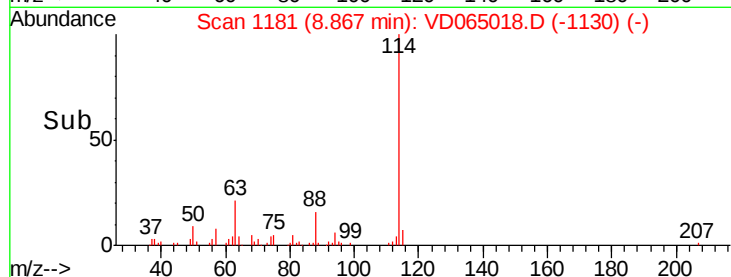
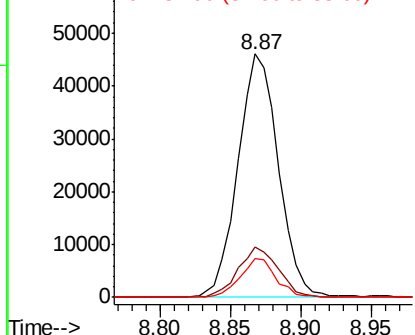
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.87 min Scan# 1181
 Delta R.T. 0.00 min
 Lab File: VD065018.D
 Acq: 30 Jan 2020 17:39

Instrument :
 MSVOA_D
 ClientSampleId :
 RAINEY-PARK-BH-03-A

Tot Ion	Ratio	Lower	Upper
114	100		
63	20.8	0.0	42.0
88	15.9	0.0	29.4

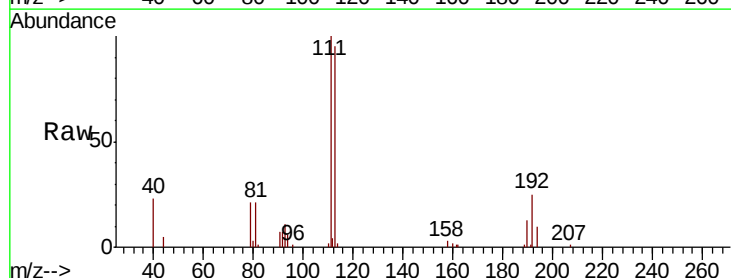


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): V
 Ion 87.90 (87.60 to 88.60): V

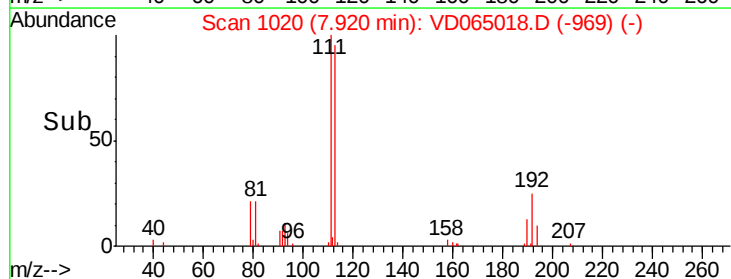
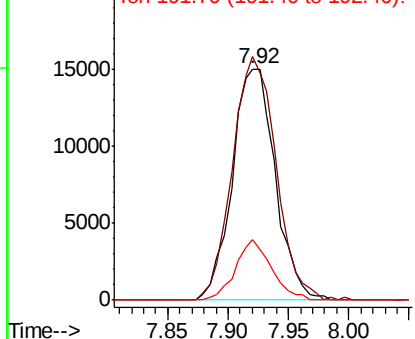


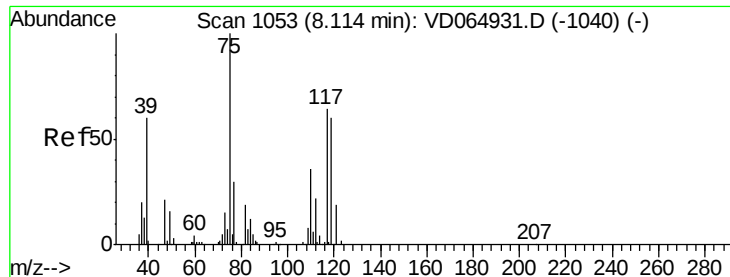
#35
 Dibromofluoromethane
 Concen: 63.794 ug/l
 RT: 7.92 min Scan# 1020
 Delta R.T. 0.00 min
 Lab File: VD065018.D
 Acq: 30 Jan 2020 17:39

Tgt Ion	Ratio	Lower	Upper
113	100		
111	107.0	82.4	123.6
192	21.9	16.9	25.3



Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.971 ug/l

RT: 7.99 min Scan# 1031

Delta R.T. -0.13 min

Lab File: VD065018.D

Acq: 30 Jan 2020 17:39

Instrument :

MSVOA_D

ClientSampleId :

RAINEY-PARK-BH-03-A

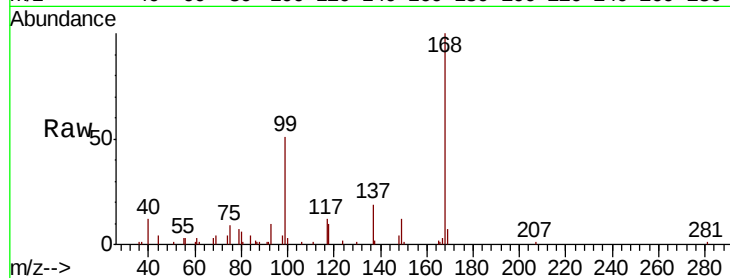
Tot Ion: 75 Resp: 5329

Ion Ratio Lower Upper

75 100

110 3.8 17.3 52.0#

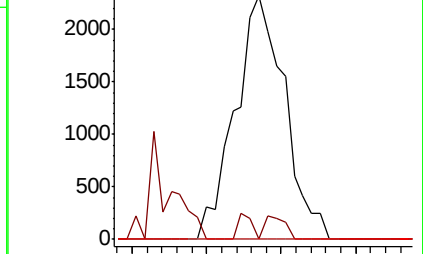
77 0.0 24.7 37.1#



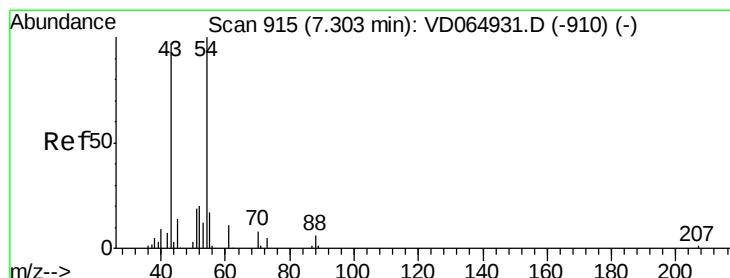
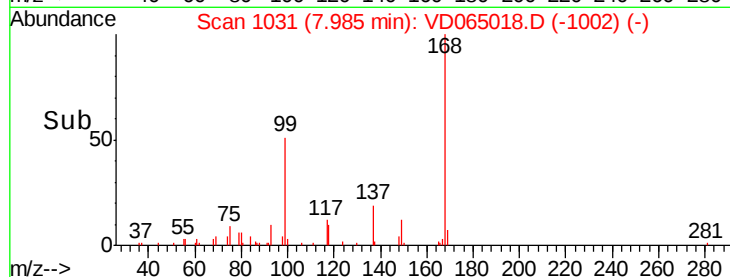
Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 109.90 (109.60 to 110.60): VDC

Ion 76.90 (76.60 to 77.60): VDC



Time-->



#37

Ethyl Acetate

Concen: 1.090 ug/l

RT: 7.22 min Scan# 901

Delta R.T. -0.08 min

Lab File: VD065018.D

Acq: 30 Jan 2020 17:39

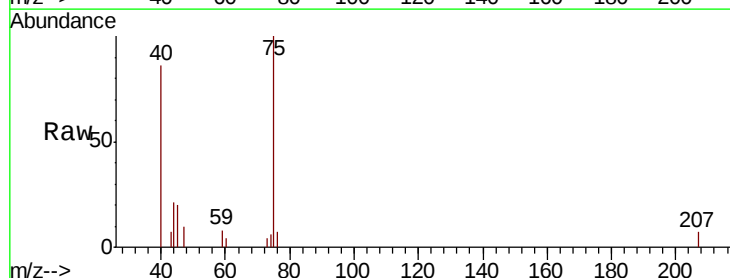
Tgt Ion: 43 Resp: 402

Ion Ratio Lower Upper

43 100

61 38.6 11.0 16.4#

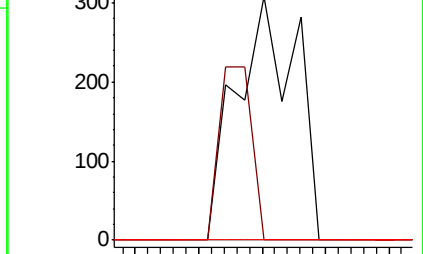
70 0.0 7.5 11.3#



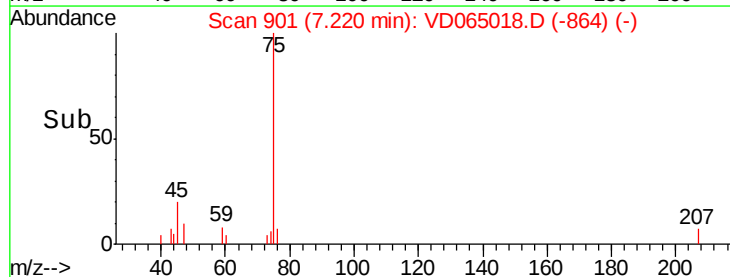
Abundance Ion 43.00 (42.70 to 43.70): VDC

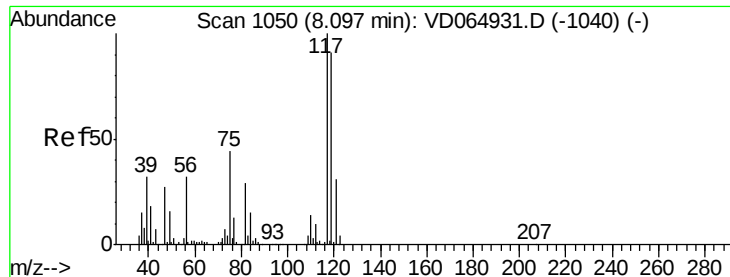
Ion 60.90 (60.60 to 61.60): VDC

Ion 70.00 (69.70 to 70.70): VDC



Time-->





#38

Carbon Tetrachloride

Concen: 5.910 ug/l

RT: 7.99 min Scan# 1031

Delta R.T. -0.11 min

Lab File: VD065018.D

Acq: 30 Jan 2020 17:39

Instrument :

MSVOA_D

ClientSampleId :

RAINEY-PARK-BH-03-A

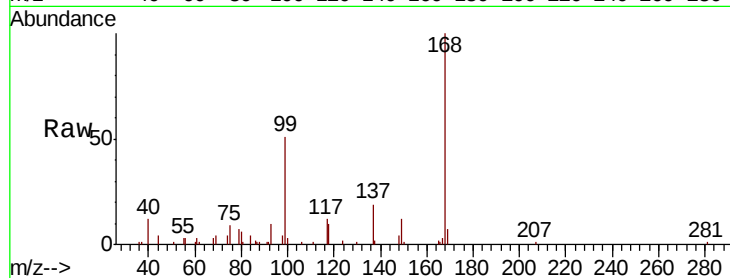
Tot Ion:117 Resp: 5575

Ion Ratio Lower Upper

117 100

119 0.0 73.2 109.8#

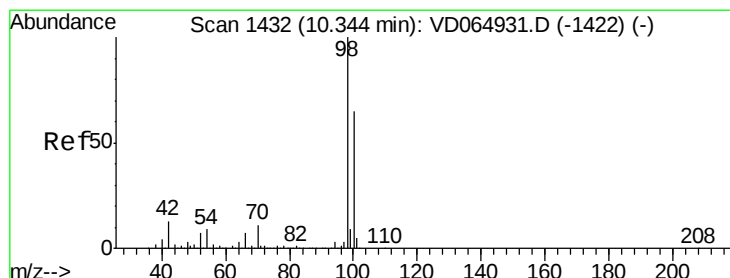
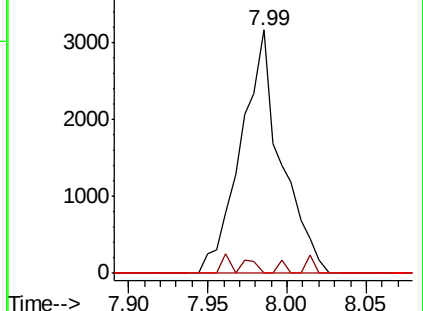
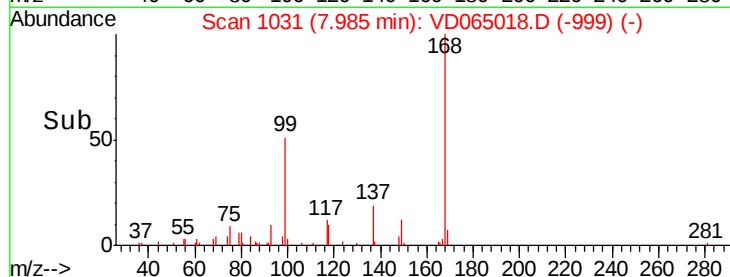
121 0.0 24.4 36.6#



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



#50

Toluene-d8

Concen: 48.809 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. 0.00 min

Lab File: VD065018.D

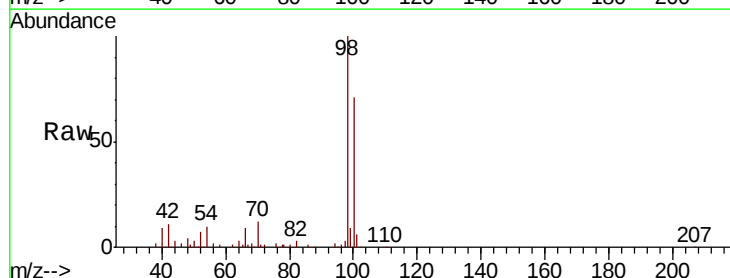
Acq: 30 Jan 2020 17:39

Tgt Ion: 98 Resp: 109577

Ion Ratio Lower Upper

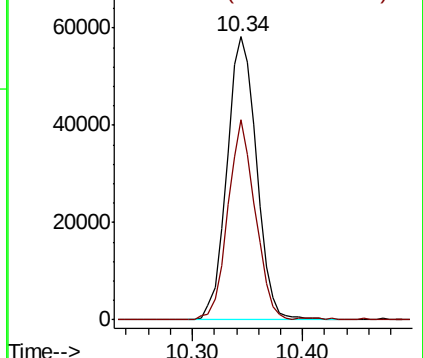
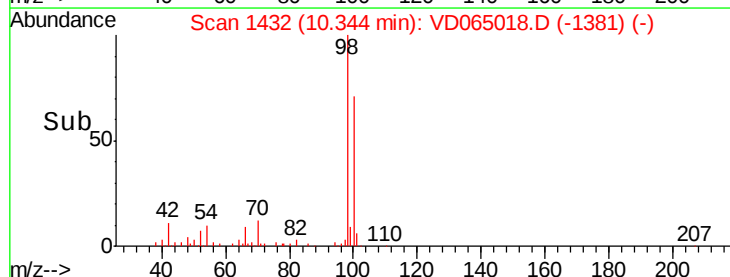
98 100

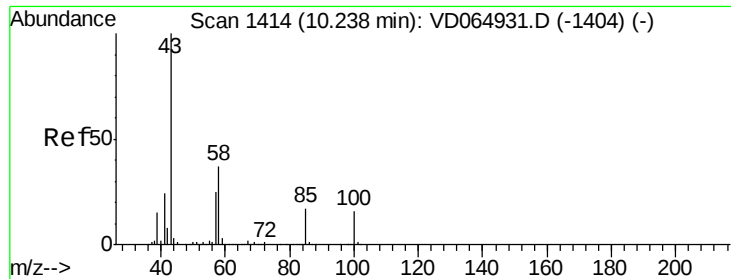
100 65.2 52.3 78.5



Abundance Ion 98.00 (97.70 to 98.70): V

Ion 100.00 (99.70 to 100.70): V





#51

4-Methyl-2-Pentanone

Concen: 1.738 ug/l

RT: 10.34 min Scan# 1431

Delta R.T. 0.10 min

Lab File: VD065018.D

Acq: 30 Jan 2020 17:39

Instrument :

MSVOA_D

ClientSampleId :

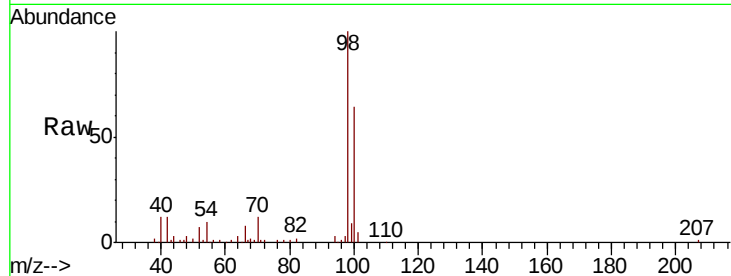
RAINEY-PARK-BH-03-A

Tot Ion: 43 Resp: 609

Ion Ratio Lower Upper

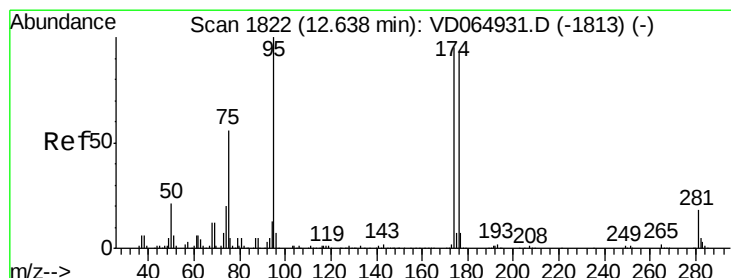
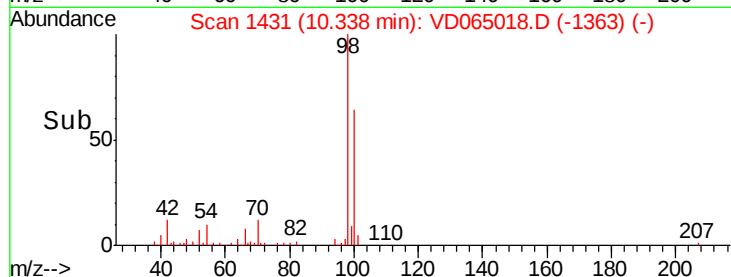
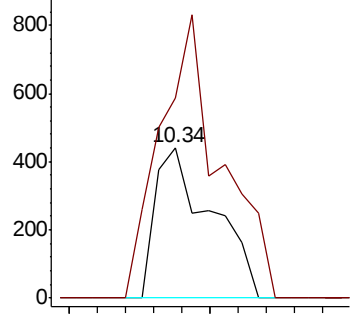
43 100

58 202.0 30.4 45.6#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#62

4-Bromofluorobenzene

Concen: 57.682 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.00 min

Lab File: VD065018.D

Acq: 30 Jan 2020 17:39

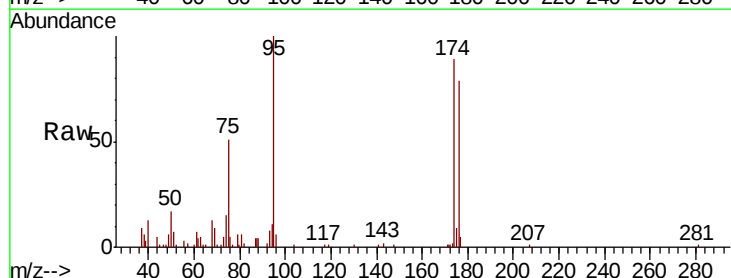
Tgt Ion: 95 Resp: 39629

Ion Ratio Lower Upper

95 100

174 94.2 0.0 186.8

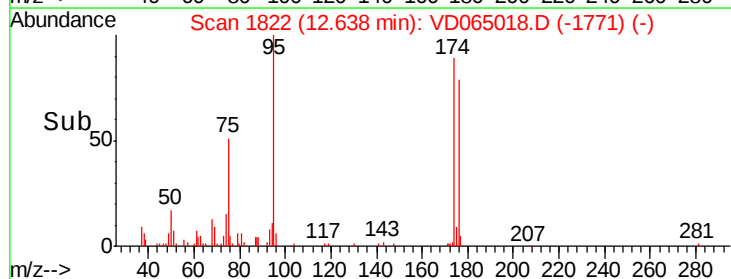
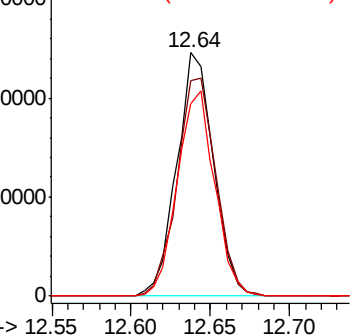
176 85.8 0.0 183.4

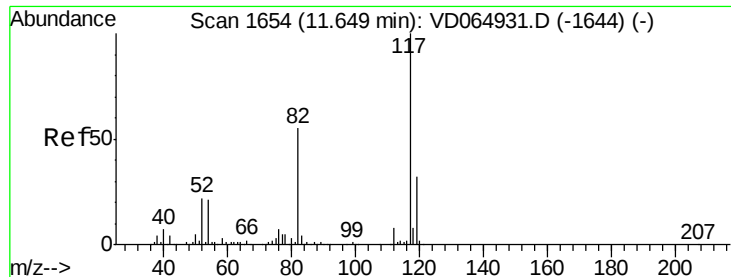


Abundance Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

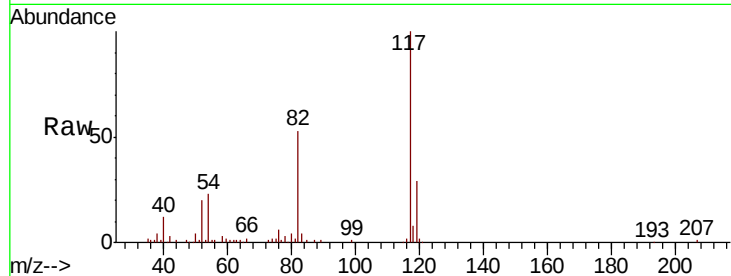




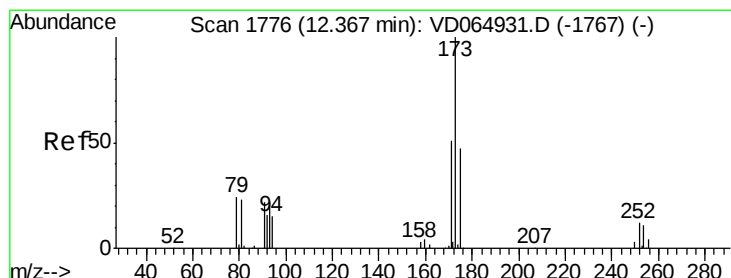
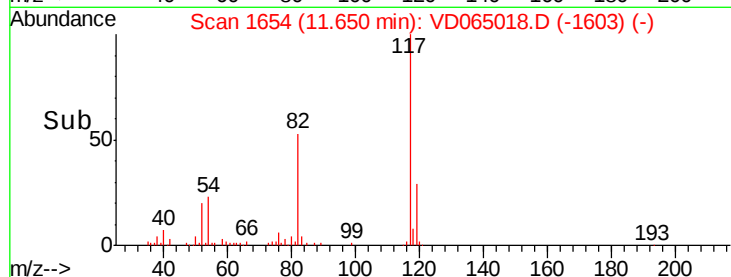
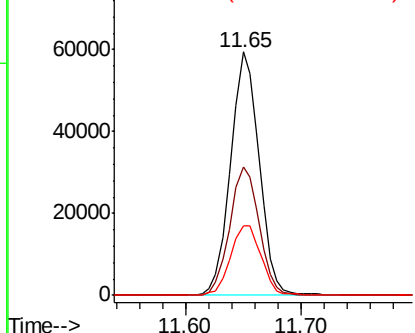
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. 0.00 min
Lab File: VD065018.D
Acq: 30 Jan 2020 17:39

Instrument :
MSVOA_D
ClientSampleId :
RAINEY-PARK-BH-03-A

Tot Ion:117 Resp: 102073
Ion Ratio Lower Upper
117 100
82 52.9 43.6 65.4
119 28.5 25.2 37.8

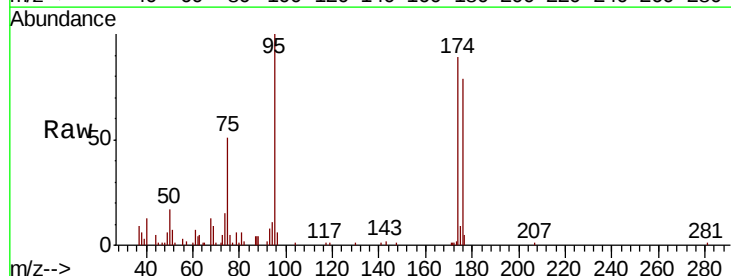


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

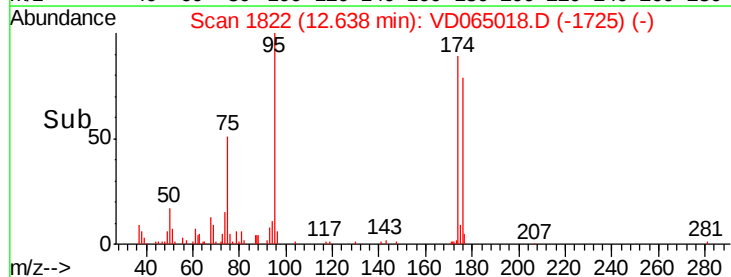
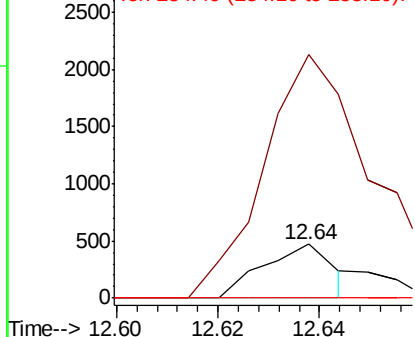


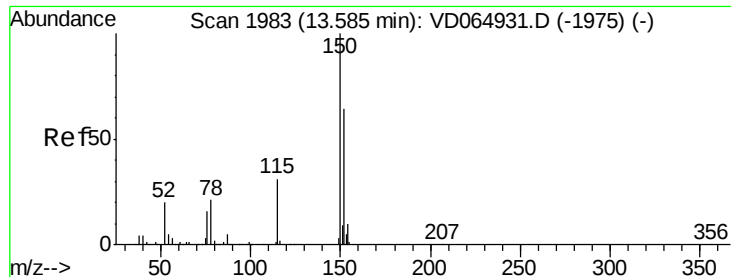
#71
Bromoform
Concen: 1.041 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. 0.27 min
Lab File: VD065018.D
Acq: 30 Jan 2020 17:39

Tgt Ion:173 Resp: 451
Ion Ratio Lower Upper
173 100
175 509.8 24.6 73.8#
254 0.0 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1983

Delta R.T. 0.00 min

Lab File: VD065018.D

Acq: 30 Jan 2020 17:39

Instrument :

MSVOA_D

ClientSampleId :

RAINEY-PARK-BH-03-A

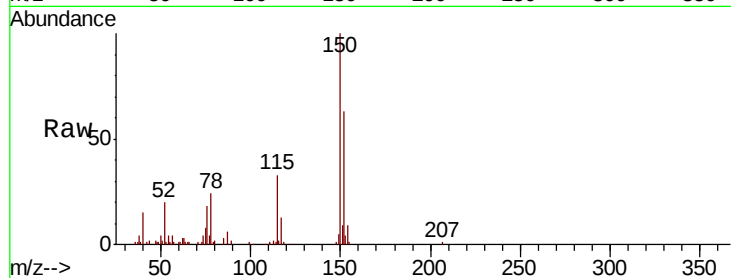
Tot Ion:152 Resp: 47928

Ion Ratio Lower Upper

152 100

115 52.8 28.1 84.4

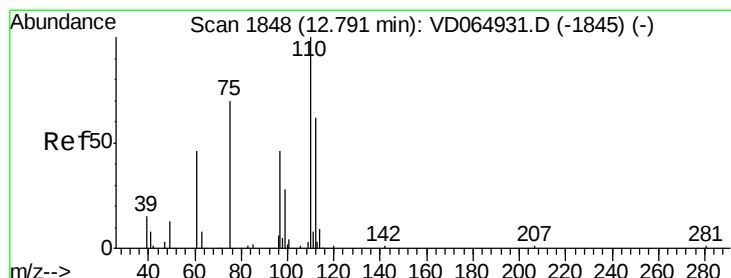
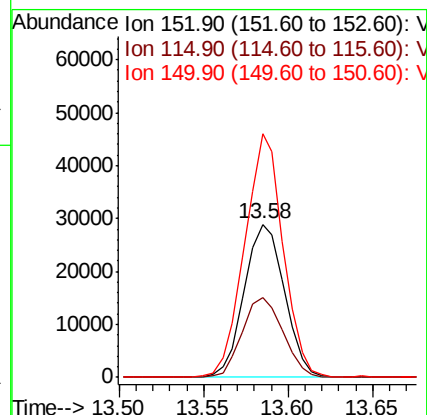
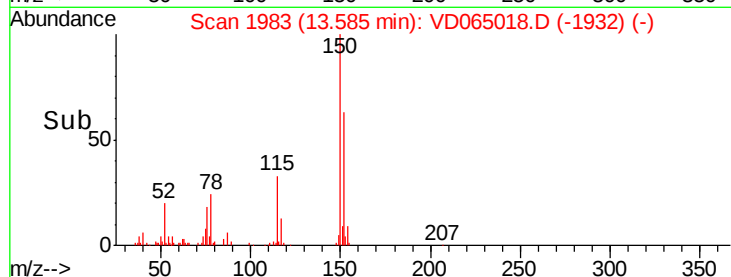
150 151.9 0.0 350.4



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



#76

1,2,3-Trichloropropane

Concen: 54.318 ug/l

RT: 12.64 min Scan# 1823

Delta R.T. -0.15 min

Lab File: VD065018.D

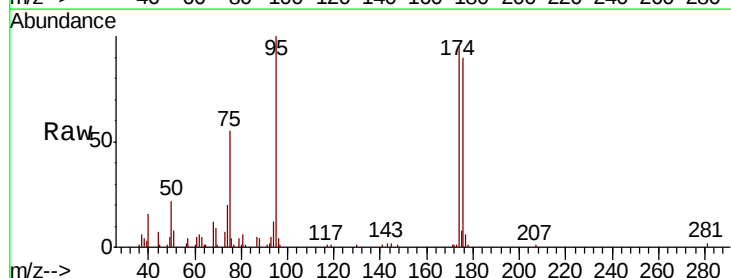
Acq: 30 Jan 2020 17:39

Tgt Ion: 75 Resp: 21608

Ion Ratio Lower Upper

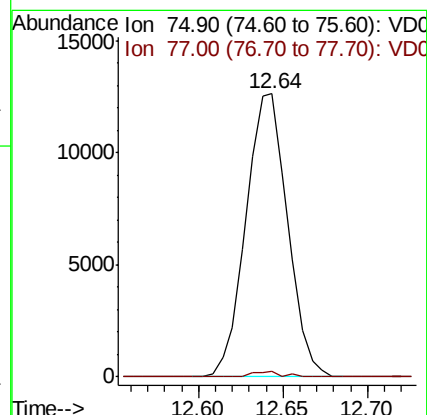
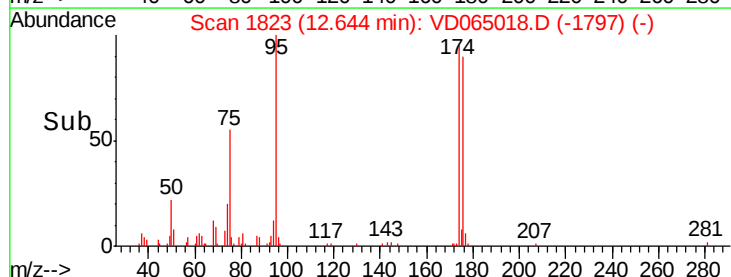
75 100

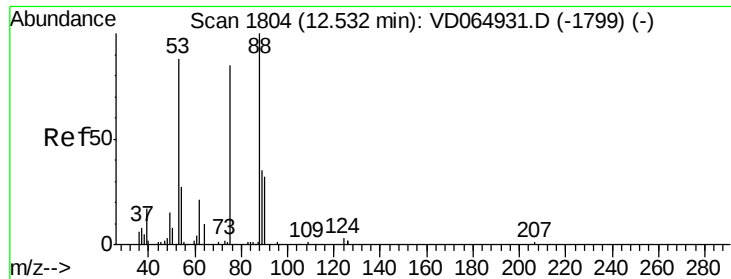
77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 115.981 ug/l

RT: 12.64 min Scan# 1823

Delta R.T. 0.11 min

Lab File: VD065018.D

Acq: 30 Jan 2020 17:39

Instrument :

MSVOA_D

ClientSampleId :

RAINEY-PARK-BH-03-A

Tot Ion: 75 Resp: 21608

Ion Ratio Lower Upper

75 100

53 0.0 81.0 121.4#

89 0.0 36.2 54.4#

