

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD073019\
 Data File : VD063262.D
 Acq On : 31 Jul 2019 2:54
 Operator : VA/AP
 Sample : K4049-12RE
 Misc : 4.33g/5ml/MSVOA D/SOIL
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 SP-12RE

Quant Time: Jul 31 05:00:54 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	981809	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.22	114	1250461	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.36	117	926734	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	274580	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	411420	37.77	ug/l	0.00
Spiked Amount			Recovery	=	75.54%	
35) Dibromofluoromethane	6.92	113	437914	41.02	ug/l	0.00
Spiked Amount			Recovery	=	82.04%	
50) Toluene-d8	10.40	98	831452	34.80	ug/l	0.00
Spiked Amount			Recovery	=	69.60%	
62) 4-Bromofluorobenzene	13.55	95	255085	23.43	ug/l	0.00
Spiked Amount			Recovery	=	46.86%	

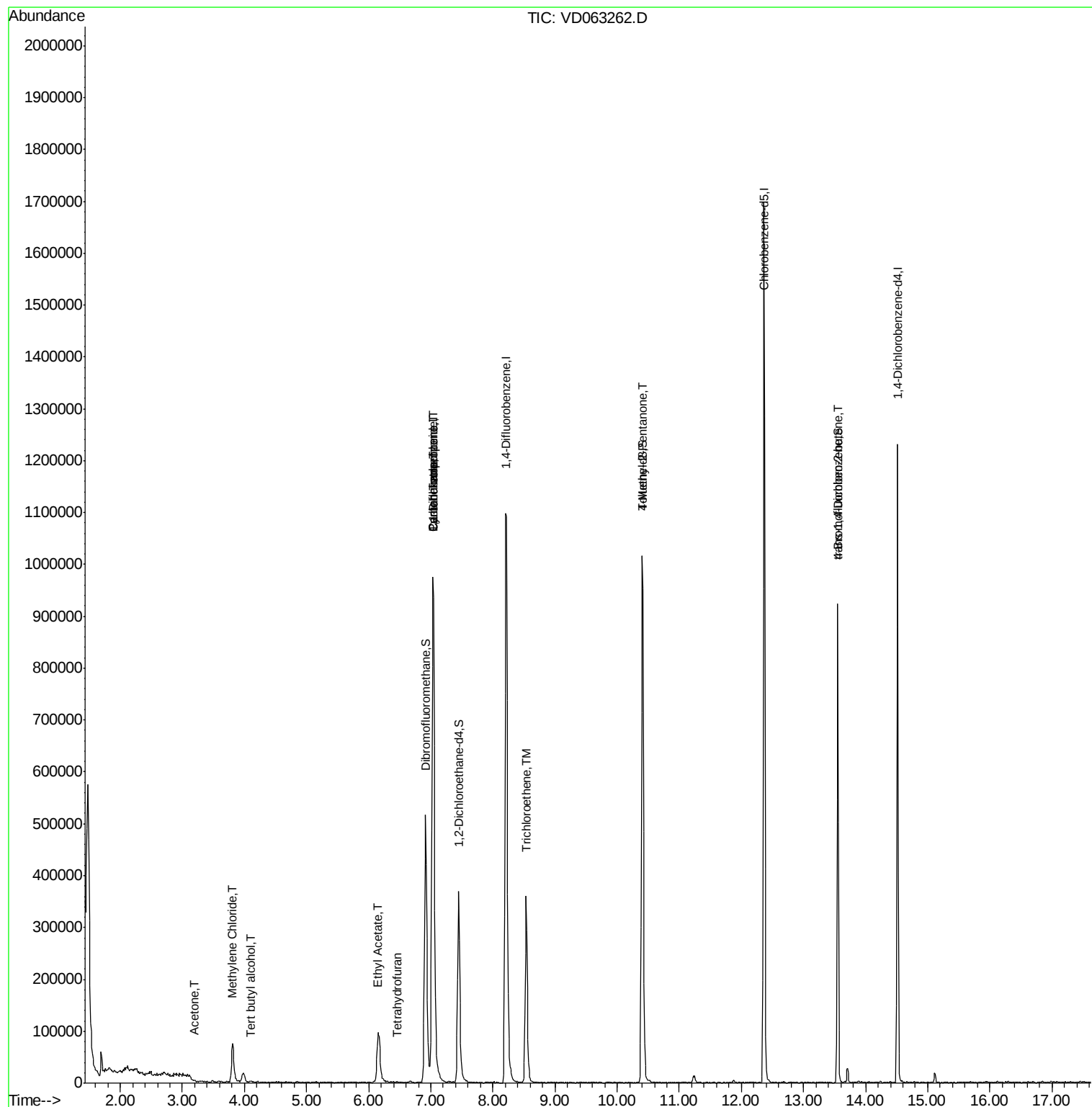
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.08	59	1365	2.855	ug/l #	69
16) Acetone	3.20	43	2257	1.063	ug/l #	62
20) Methylene Chloride	3.81	84	45900	5.350	ug/l #	77
29) Tetrahydrofuran	6.46	42	2075	2.057	ug/l #	40
31) Cyclohexane	7.04	56	20566	2.119	ug/l #	12
36) 1,1-Dichloropropene	7.04	75	73965	6.481	ug/l #	53
37) Ethyl Acetate	6.15	43	8085	1.577	ug/l #	2
38) Carbon Tetrachloride	7.04	117	98974	5.761	ug/l #	14
44) Trichloroethene	8.53	130	144443	14.904	ug/l	85
51) 4-Methyl-2-Pentanone	10.39	43	5012	1.125	ug/l #	1
81) trans-1,4-Dichloro-2-buten	13.55	75	112337	122.665	ug/l #	3

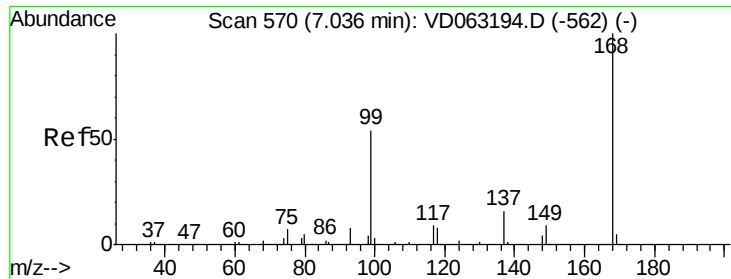
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VD063262.D

Acq: 31 Jul 2019 2:54

Instrument :

MSVOA_D

ClientSampleId :

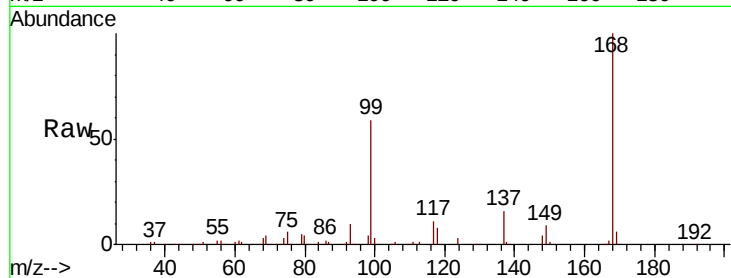
SP-12RE

Tot Ion:168 Resp: 981809

Ion Ratio Lower Upper

168 100

99 59.1 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

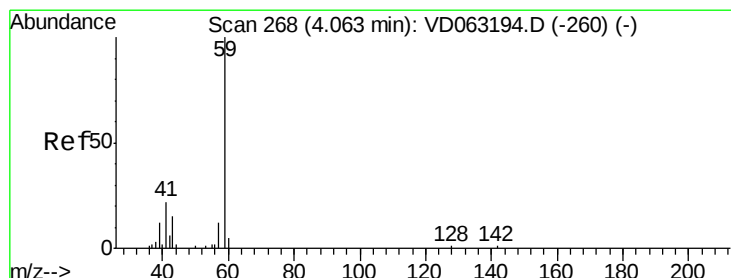
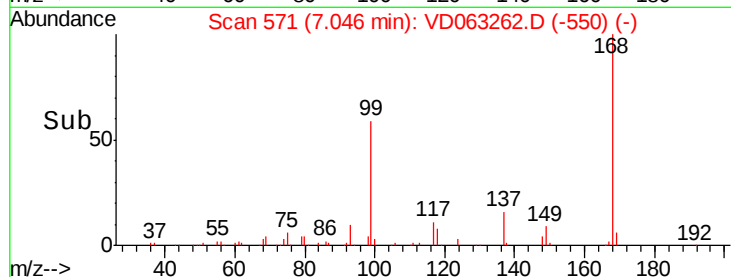
300000

200000

100000

0

Time-->



#11

Tert butyl alcohol

Concen: 2.855 ug/l

RT: 4.08 min Scan# 270

Delta R.T. 0.02 min

Lab File: VD063262.D

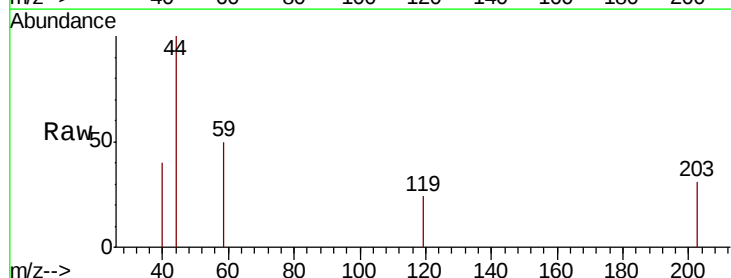
Acq: 31 Jul 2019 2:54

Tgt Ion: 59 Resp: 1365

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

4.08

1000

800

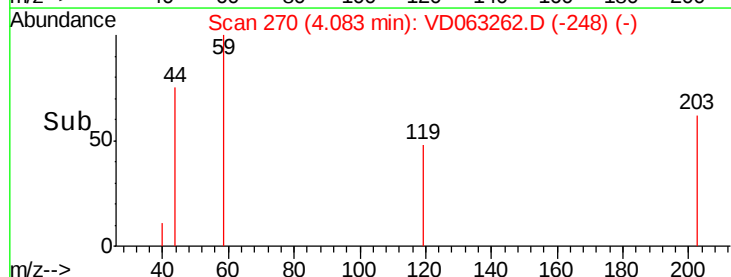
600

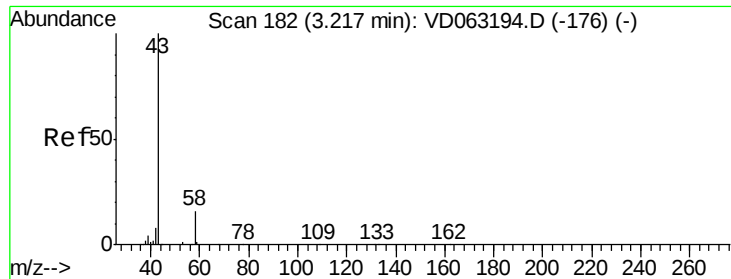
400

200

0

Time-->





#16

Acetone

Concen: 1.063 ug/l

RT: 3.20 min Scan# 180

Delta R.T. -0.02 min

Lab File: VD063262.D

Acq: 31 Jul 2019 2:54

Instrument :

MSVOA_D

ClientSampleId :

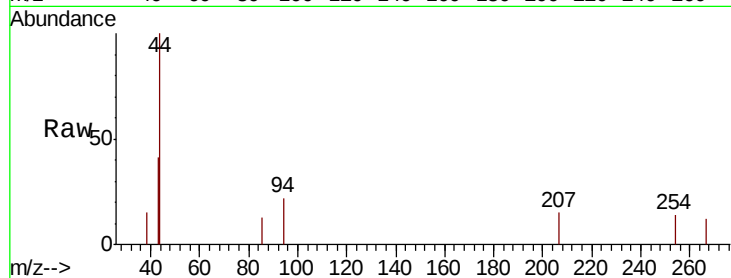
SP-12RE

Tot Ion: 43 Resp: 2257

Ion Ratio Lower Upper

43 100

58 0.0 13.0 19.4#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

3.20

1200

1000

800

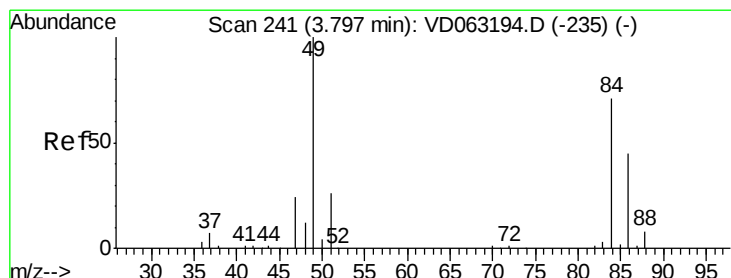
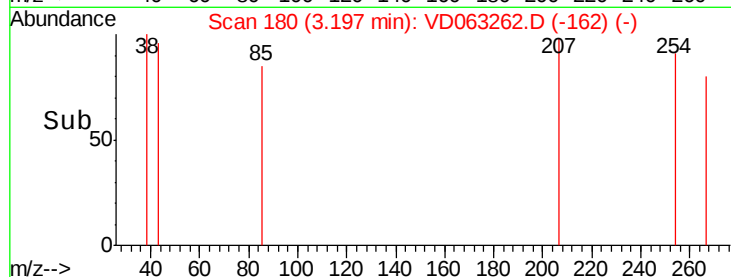
600

400

200

0

Time-->



#20

Methylene Chloride

Concen: 5.350 ug/l

RT: 3.81 min Scan# 242

Delta R.T. 0.01 min

Lab File: VD063262.D

Acq: 31 Jul 2019 2:54

Tgt Ion: 84 Resp: 45900

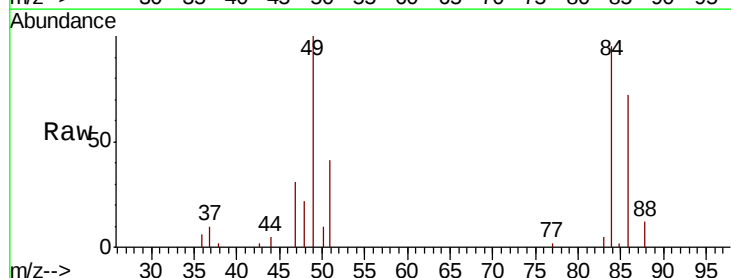
Ion Ratio Lower Upper

84 100

49 105.8 112.5 168.7#

51 43.8 29.6 44.4

86 75.9 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

25000

20000

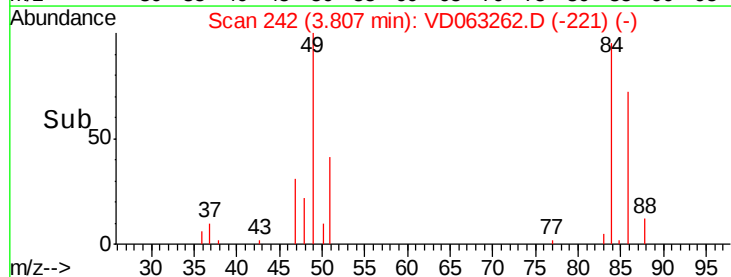
15000

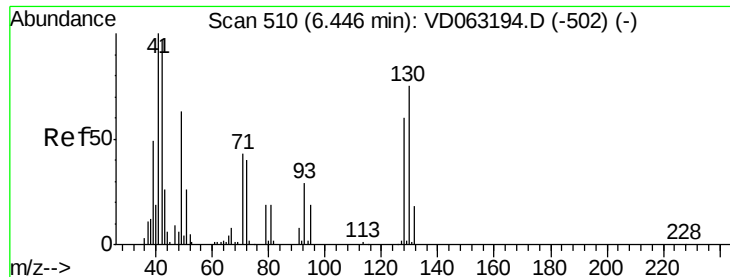
10000

5000

0

Time-->

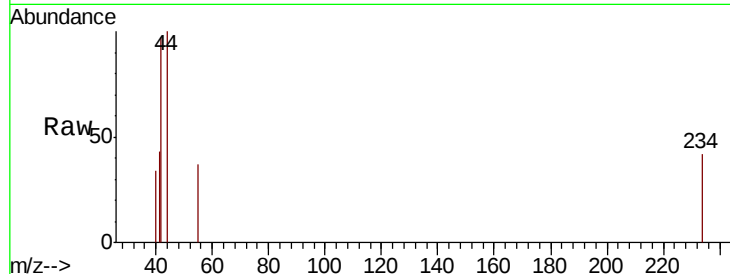




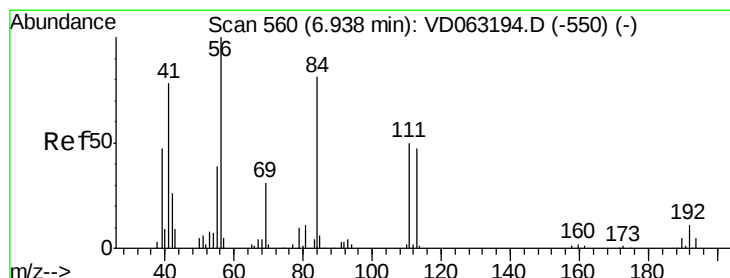
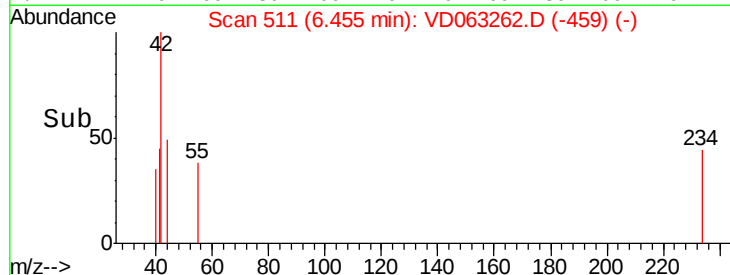
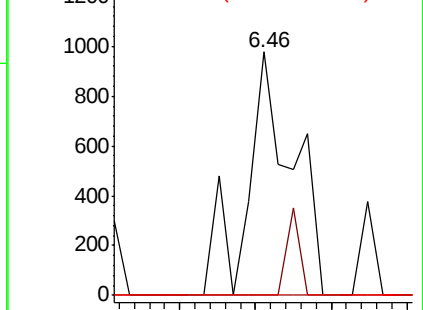
#29
Tetrahydrofuran
Concen: 2.057 ug/l
RT: 6.46 min Scan# 511
Delta R.T. 0.01 min
Lab File: VD063262.D
Acq: 31 Jul 2019 2:54

Instrument :
MSVOA_D
ClientSampleId :
SP-12RE

Tot Ion: 42 Resp: 2075
Ion Ratio Lower Upper
42 100
72 10.0 33.4 50.2#
71 0.0 35.7 53.5#

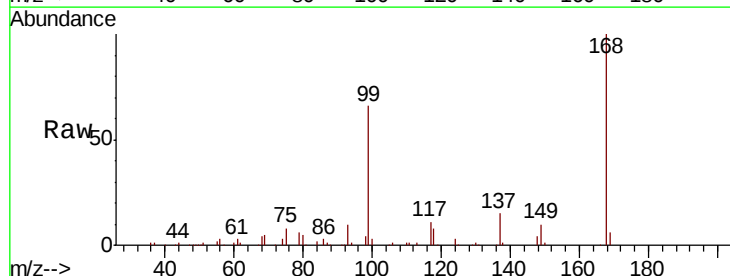


Abundance Ion 42.00 (41.70 to 42.70): VDC
Ion 72.00 (71.70 to 72.70): VDC
Ion 71.00 (70.70 to 71.70): VDC

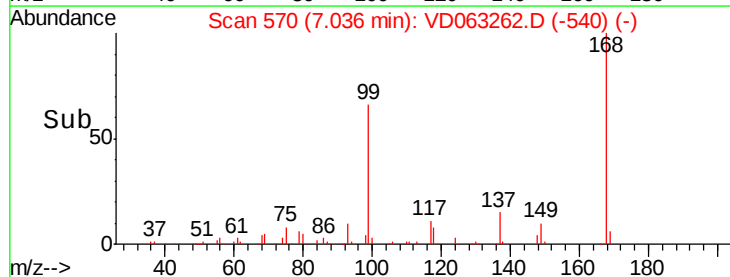
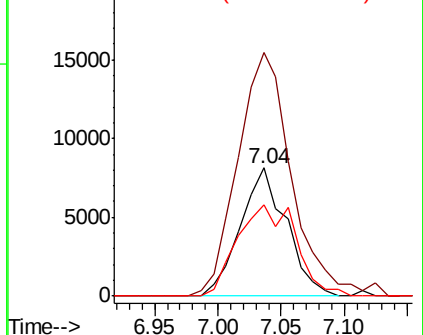


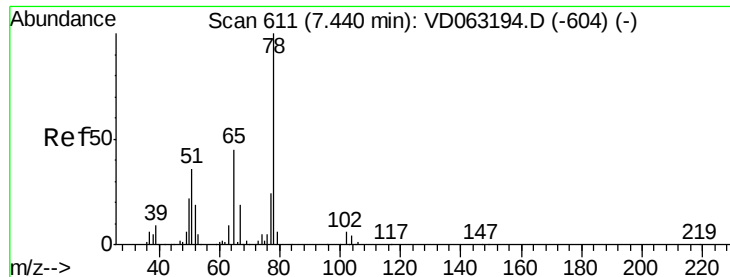
#31
Cyclohexane
Concen: 2.119 ug/l
RT: 7.04 min Scan# 570
Delta R.T. 0.10 min
Lab File: VD063262.D
Acq: 31 Jul 2019 2:54

Tgt Ion: 56 Resp: 20566
Ion Ratio Lower Upper
56 100
69 190.3 24.5 36.7#
84 71.7 64.9 97.3



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: 37.765 ug/l

RT: 7.45 min Scan# 612

Delta R.T. 0.01 min

Lab File: VD063262.D

Acq: 31 Jul 2019 2:54

Instrument :

MSVOA_D

ClientSampleId :

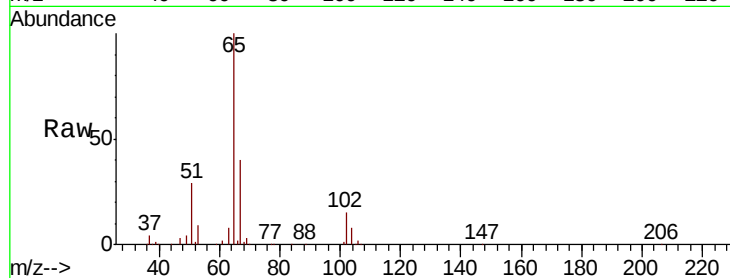
SP-12RE

Tot Ion: 65 Resp: 411420

Ion Ratio Lower Upper

65 100

67 39.6 0.0 85.8



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

7.45

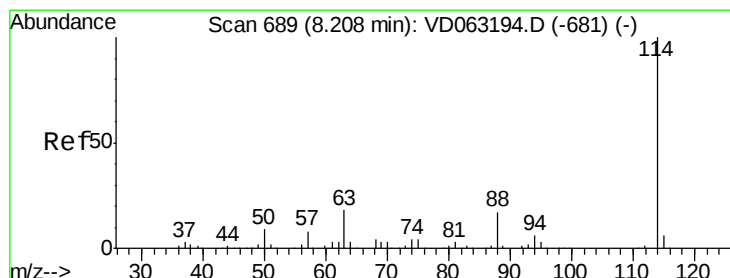
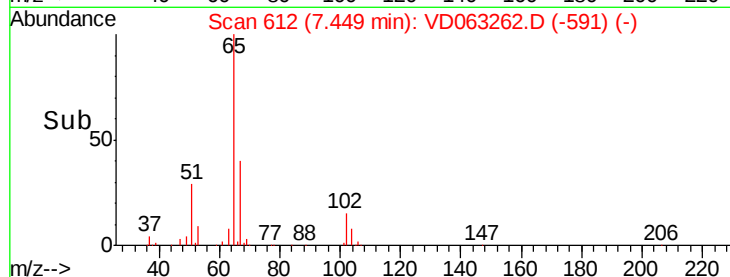
150000

100000

50000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.22 min Scan# 690

Delta R.T. 0.01 min

Lab File: VD063262.D

Acq: 31 Jul 2019 2:54

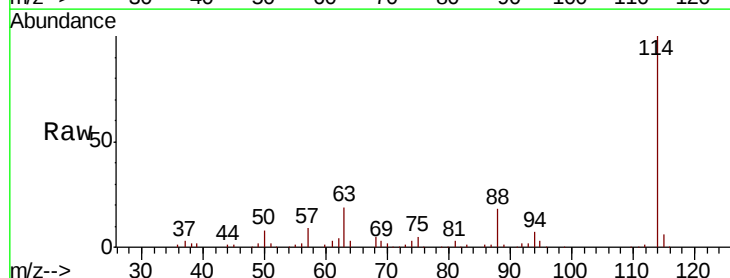
Tgt Ion: 114 Resp: 1250461

Ion Ratio Lower Upper

114 100

63 18.7 0.0 35.2

88 18.1 0.0 34.6



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC

600000

500000

400000

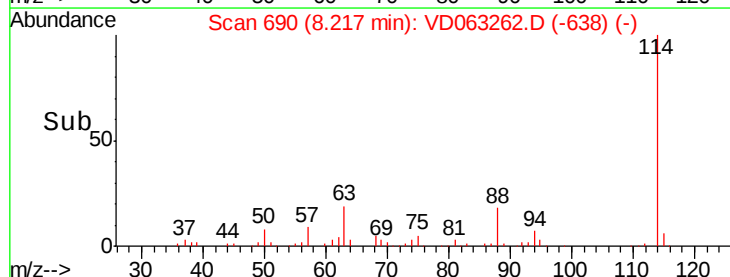
300000

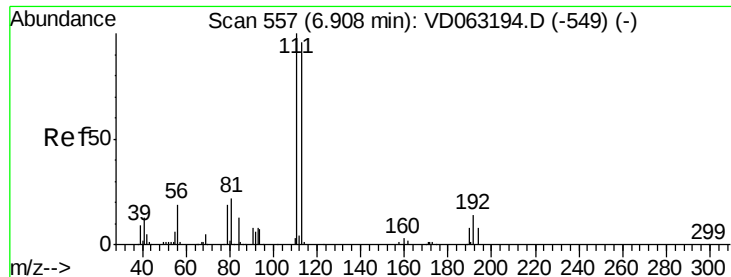
200000

100000

0

Time-->

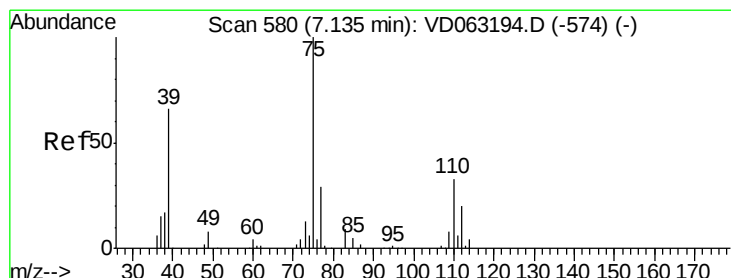
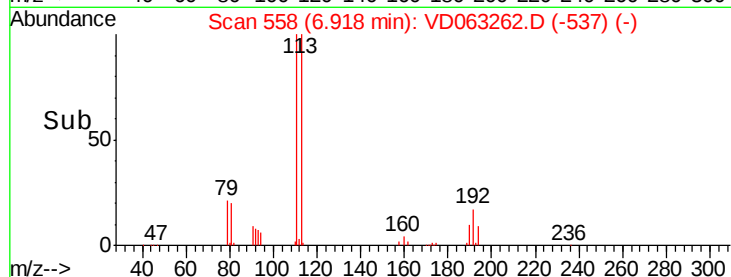
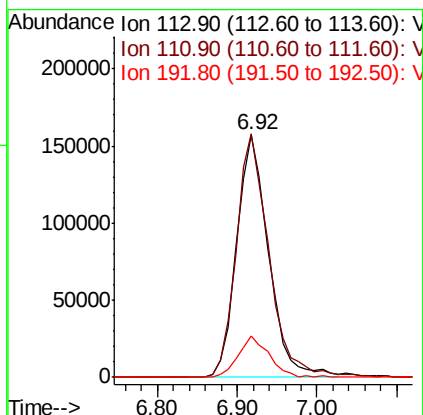
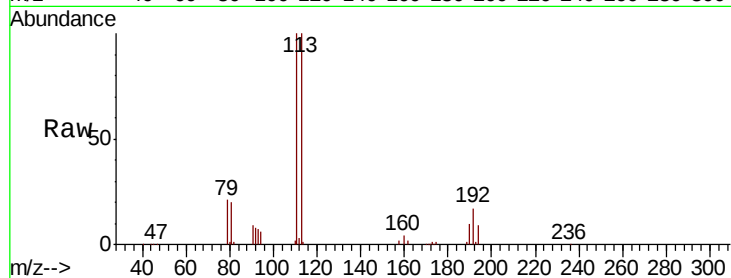




#35
 Dibromofluoromethane
 Concen: 41.017 ug/l
 RT: 6.92 min Scan# 558
 Delta R.T. 0.01 min
 Lab File: VD063262.D
 Acq: 31 Jul 2019 2:54

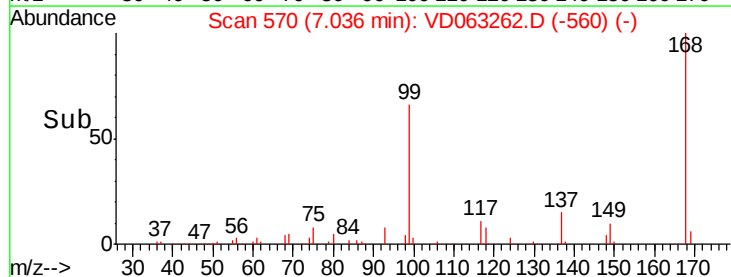
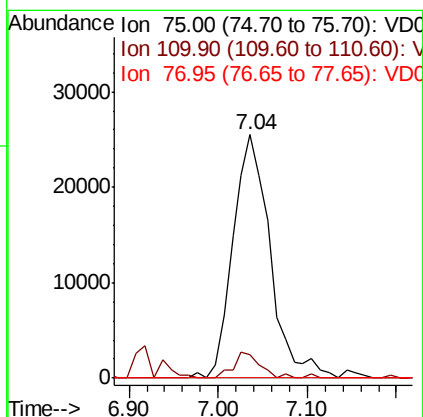
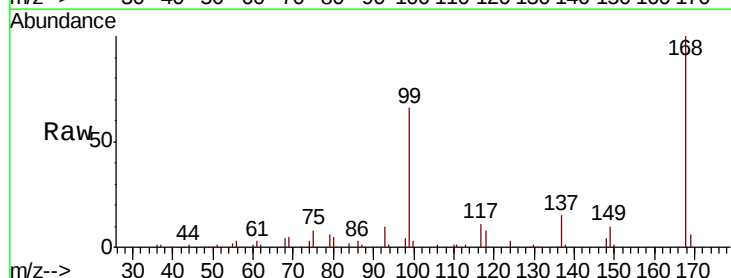
Instrument :
 MSVOA_D
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 SP-12RE

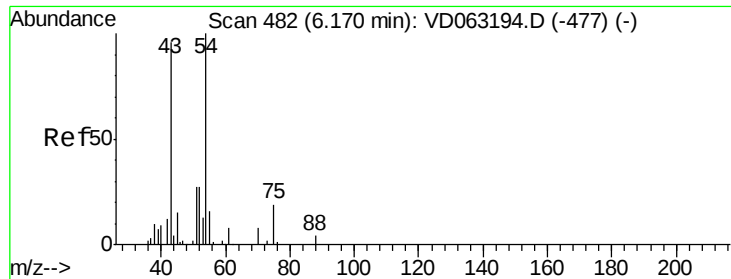
Tot Ion	Ratio	Lower	Upper
113	100		
111	100.4	83.2	124.8
192	17.0	11.8	17.8



#36
 1,1-Dichloropropene
 Concen: 6.481 ug/l
 RT: 7.04 min Scan# 570
 Delta R.T. -0.10 min
 Lab File: VD063262.D
 Acq: 31 Jul 2019 2:54

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.5	16.1	48.2#
77	0.0	22.7	34.1#





#37

Ethyl Acetate

Concen: 1.577 ug/l

RT: 6.15 min Scan# 480

Delta R.T. -0.02 min

Lab File: VD063262.D

Acq: 31 Jul 2019 2:54

Instrument :

MSVOA_D

ClientSampleId :

SP-12RE

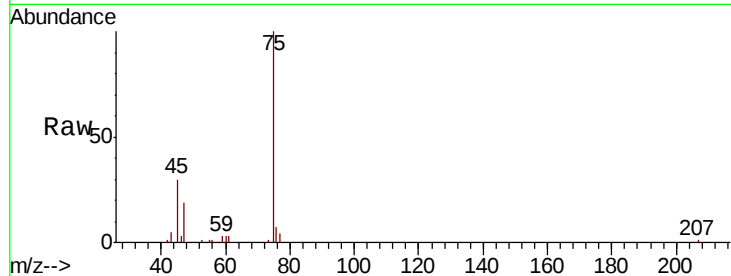
Tot Ion: 43 Resp: 8085

Ion Ratio Lower Upper

43 100

61 68.4 11.3 16.9#

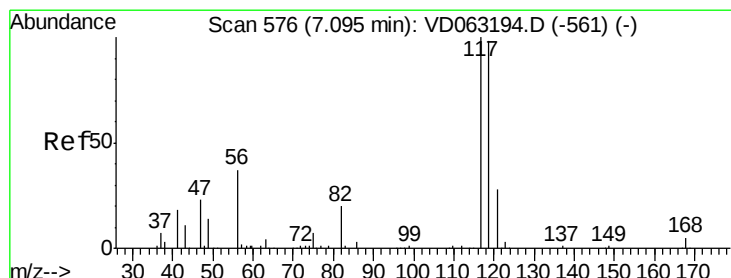
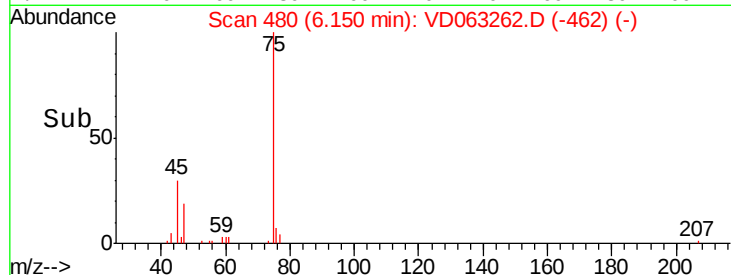
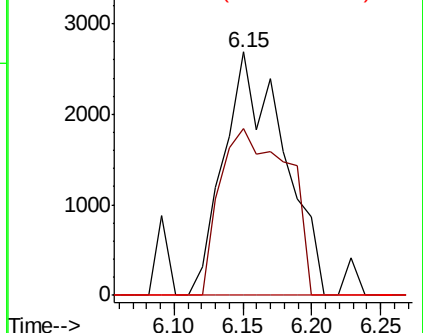
70 0.0 5.1 7.7#



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: 5.761 ug/l

RT: 7.04 min Scan# 570

Delta R.T. -0.06 min

Lab File: VD063262.D

Acq: 31 Jul 2019 2:54

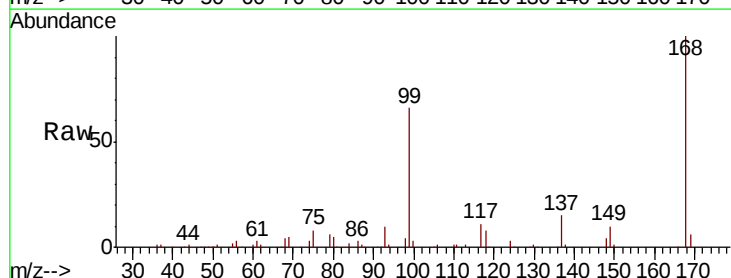
Tgt Ion: 117 Resp: 98974

Ion Ratio Lower Upper

117 100

119 4.2 78.2 117.2#

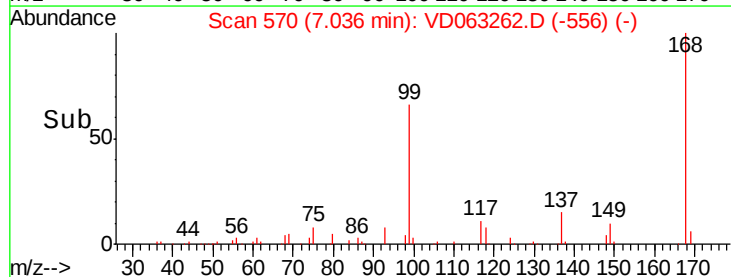
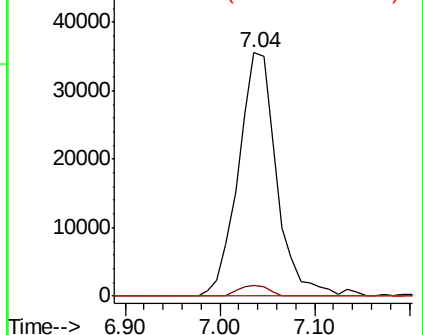
121 0.0 22.1 33.1#

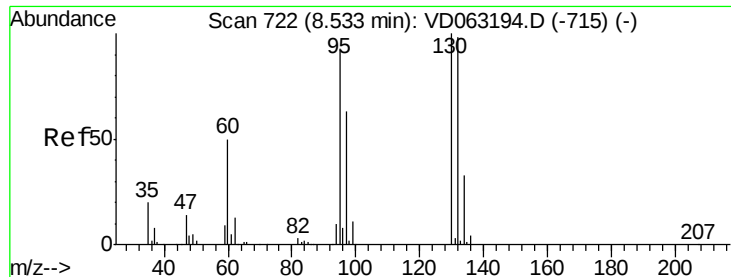


Abundance Ion 116.85 (116.55 to 117.55): V

Ion 118.85 (118.55 to 119.55): V

Ion 120.85 (120.55 to 121.55): V





#44

Trichloroethene

Concen: 14.904 ug/l

RT: 8.53 min Scan# 722

Delta R.T. -0.00 min

Lab File: VD063262.D

Acq: 31 Jul 2019 2:54

Instrument :

MSVOA_D

ClientSampleId :

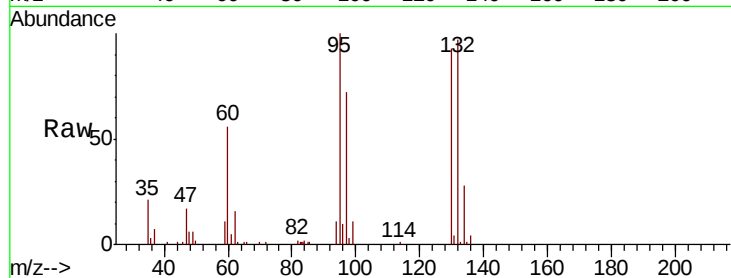
SP-12RE

Tot Ion:130 Resp: 144443

Ion Ratio Lower Upper

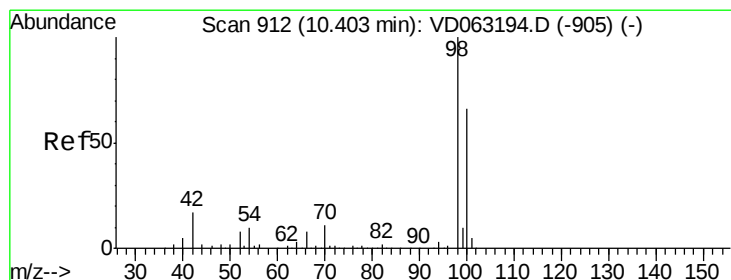
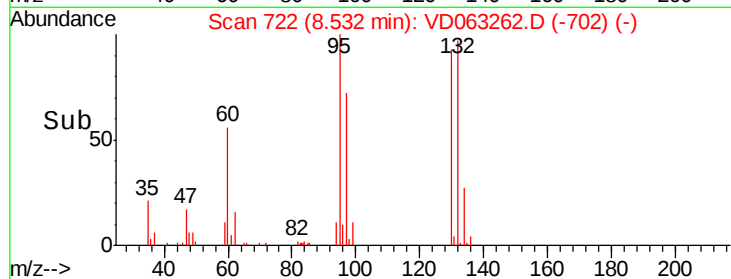
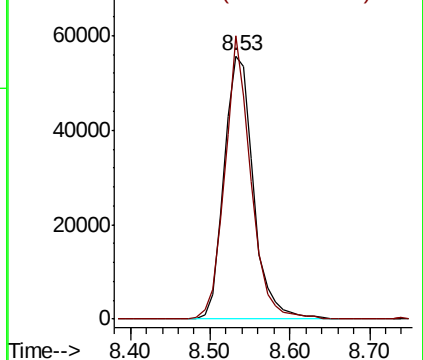
130 100

95 107.5 0.0 185.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VDC



#50

Toluene-d8

Concen: 34.798 ug/l

RT: 10.40 min Scan# 912

Delta R.T. -0.00 min

Lab File: VD063262.D

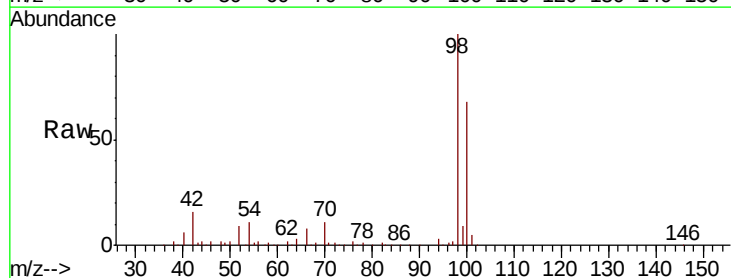
Acq: 31 Jul 2019 2:54

Tgt Ion: 98 Resp: 831452

Ion Ratio Lower Upper

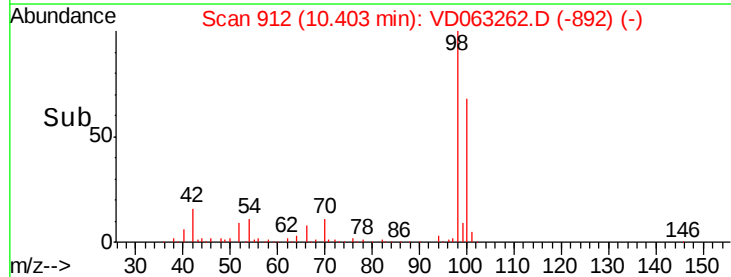
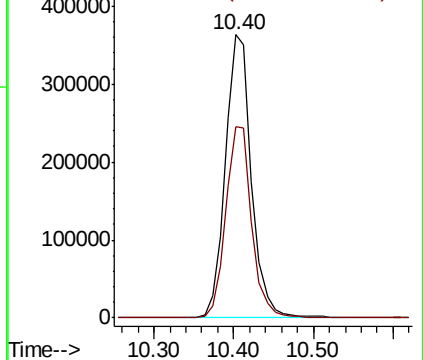
98 100

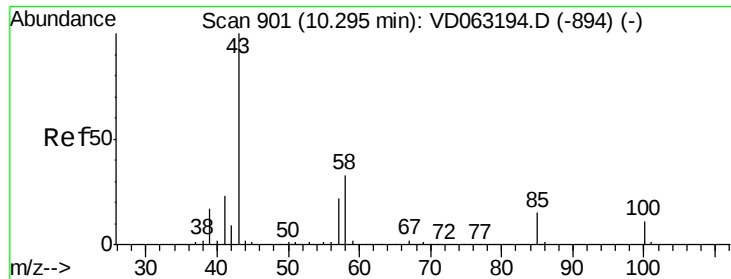
100 67.5 53.2 79.8



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: 1.125 ug/l

RT: 10.39 min Scan# 911

Delta R.T. 0.10 min

Lab File: VD063262.D

Acq: 31 Jul 2019 2:54

Instrument :

MSVOA_D

ClientSampleId :

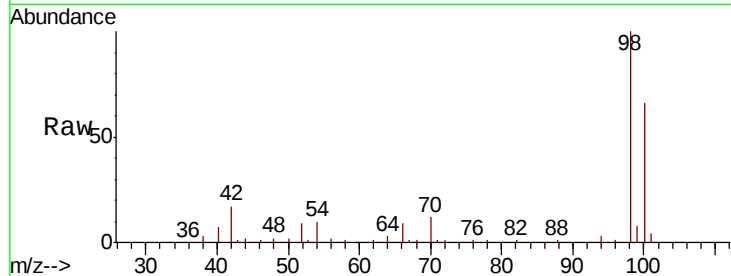
SP-12RE

Tot Ion: 43 Resp: 5012

Ion Ratio Lower Upper

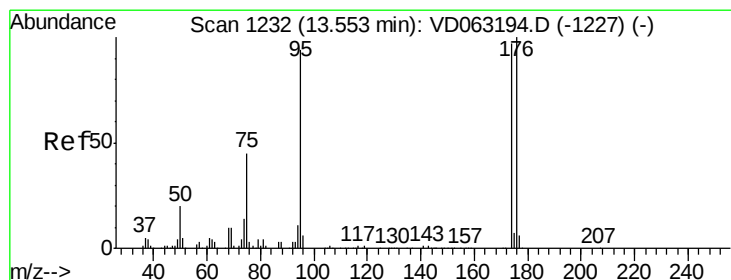
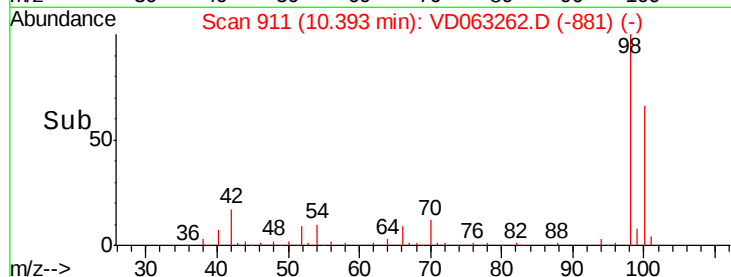
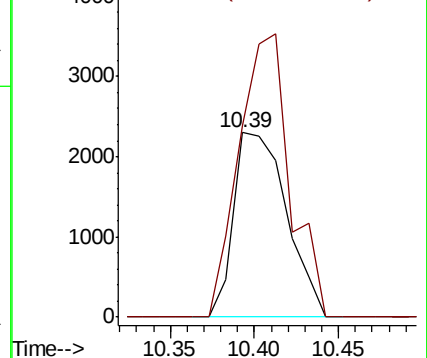
43 100

58 103.9 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: 23.428 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. -0.00 min

Lab File: VD063262.D

Acq: 31 Jul 2019 2:54

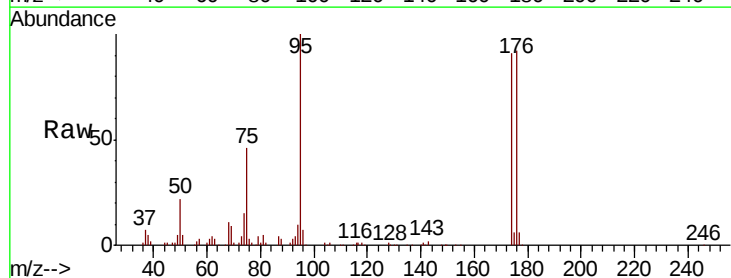
Tgt Ion: 95 Resp: 255085

Ion Ratio Lower Upper

95 100

174 90.8 0.0 205.4

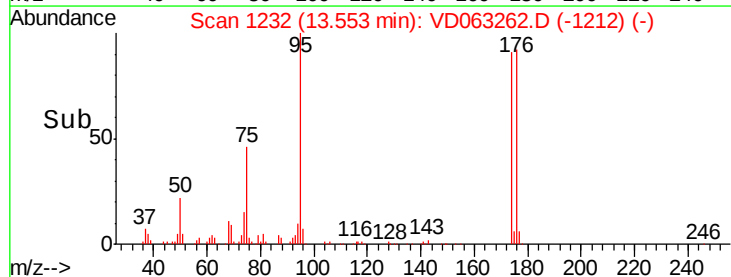
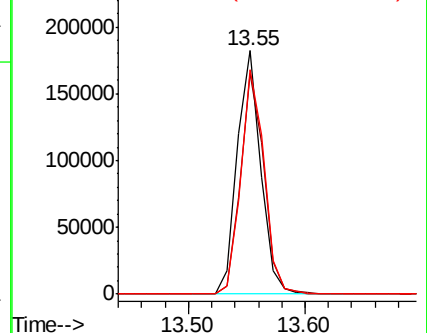
176 92.1 0.0 211.8

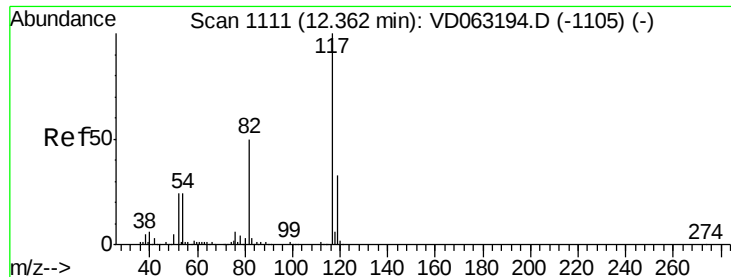


Abundance Ion 95.00 (94.70 to 95.70): VDC

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V

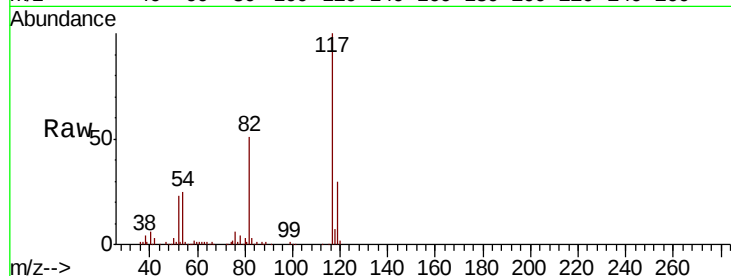




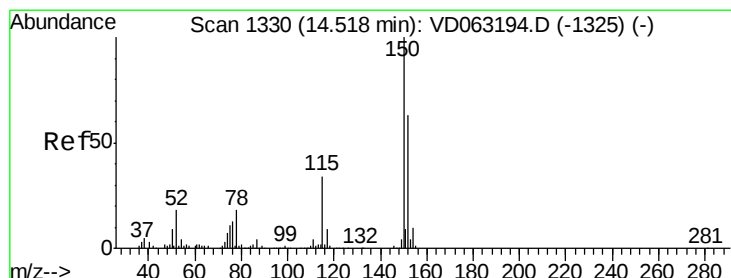
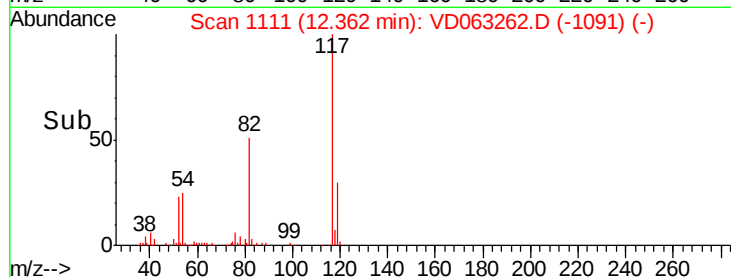
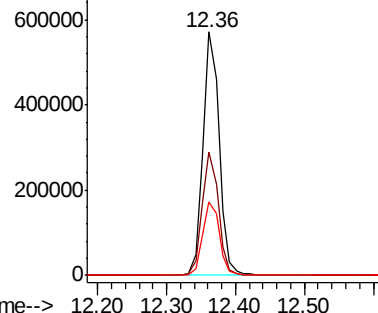
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.36 min Scan# 1111
Delta R.T. -0.00 min
Lab File: VD063262.D
Acq: 31 Jul 2019 2:54

Instrument :
MSVOA_D
ClientSampleId :
SP-12RE

Tot Ion:117 Resp: 926734
Ion Ratio Lower Upper
117 100
82 50.8 40.1 60.1
119 30.0 26.5 39.7

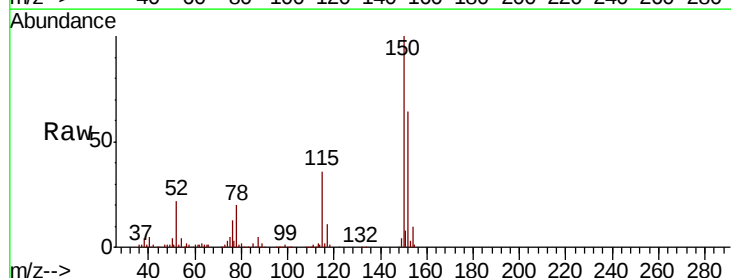


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

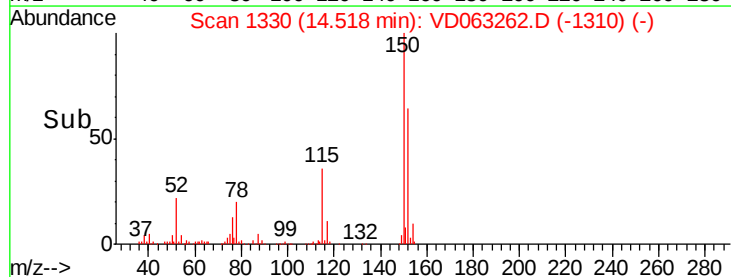
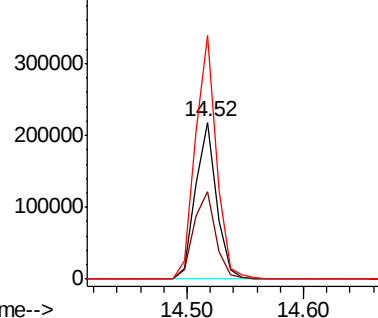


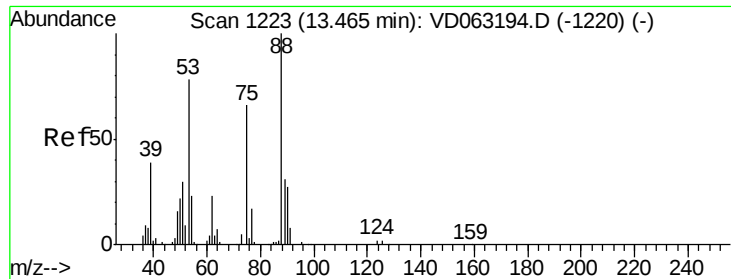
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.52 min Scan# 1330
Delta R.T. -0.00 min
Lab File: VD063262.D
Acq: 31 Jul 2019 2:54

Tgt Ion:152 Resp: 274580
Ion Ratio Lower Upper
152 100
115 56.1 27.5 82.4
150 155.3 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: 122.665 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.09 min

Lab File: VD063262.D

Acq: 31 Jul 2019 2:54

Instrument :

MSVOA_D

ClientSampleId :

SP-12RE

Tot Ion: 75 Resp: 112337

Ion Ratio Lower Upper

75 100

53 0.0 94.9 142.3#

89 0.0 37.4 56.0#

