

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD073019\
 Data File : VD063259.D
 Acq On : 31 Jul 2019 1:33
 Operator : VA/AP
 Sample : K4049-09RE
 Misc : 4.60µl/5ml/MSVOA D/SOIL
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 SP-9

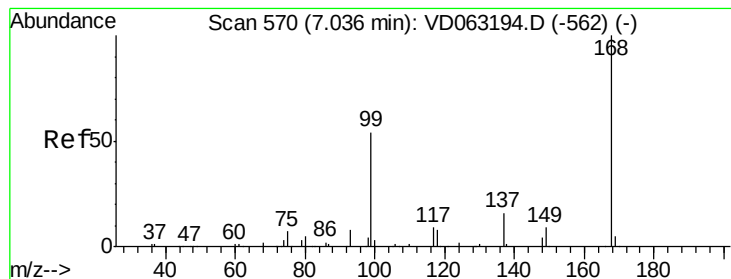
Quant Time: Jul 31 05:00:22 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D072919S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 30 03:04:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.04	168	969911	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.21	114	1336601	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.36	117	926407	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.51	152	309102	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.44	65	395804	36.78	ug/l	0.00
Spiked Amount			Recovery	=	73.56%	
35) Dibromofluoromethane	6.91	113	476171	41.73	ug/l	0.00
Spiked Amount			Recovery	=	83.46%	
50) Toluene-d8	10.40	98	884770	34.64	ug/l	0.00
Spiked Amount			Recovery	=	69.28%	
62) 4-Bromofluorobenzene	13.54	95	299110	25.70	ug/l	0.00
Spiked Amount			Recovery	=	51.40%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	3.98	59	11073	23.445	ug/l #	69
16) Acetone	3.21	43	6165	2.940	ug/l #	82
20) Methylene Chloride	3.80	84	26470	3.123	ug/l	96
25) 2-Butanone	6.16	43	8305	3.947	ug/l #	79
31) Cyclohexane	7.04	56	20563	2.145	ug/l #	2
36) 1,1-Dichloropropene	7.04	75	71654	5.874	ug/l #	55
37) Ethyl Acetate	6.16	43	8304	1.515	ug/l #	24
38) Carbon Tetrachloride	7.03	117	93378	5.085	ug/l #	14
44) Trichloroethene	8.53	130	215442	20.797	ug/l	98
81) trans-1,4-Dichloro-2-buten	13.54	75	127648	123.817	ug/l #	3

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.04 min Scan# 570

Delta R.T. 0.00 min

Lab File: VD063259.D

Acq: 31 Jul 2019 1:33

Instrument :

MSVOA_D

ClientSampleId :

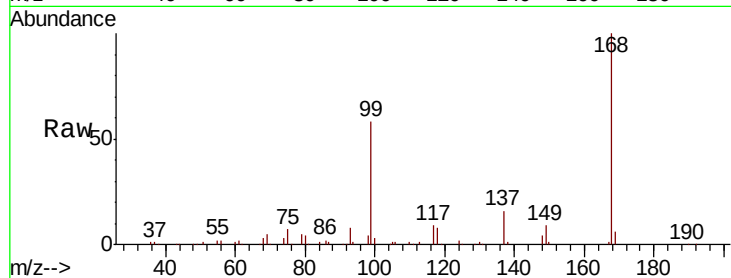
SP-9

Tot Ion:168 Resp: 969911

Ion Ratio Lower Upper

168 100

99 57.5 43.7 65.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.04

300000

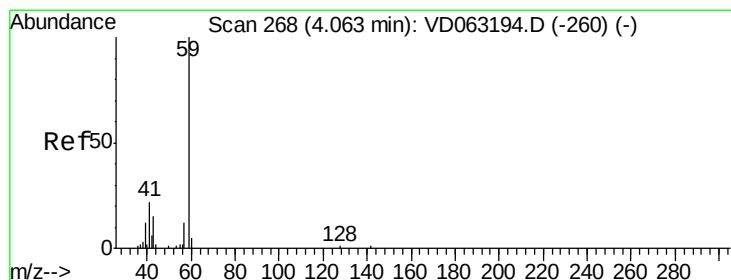
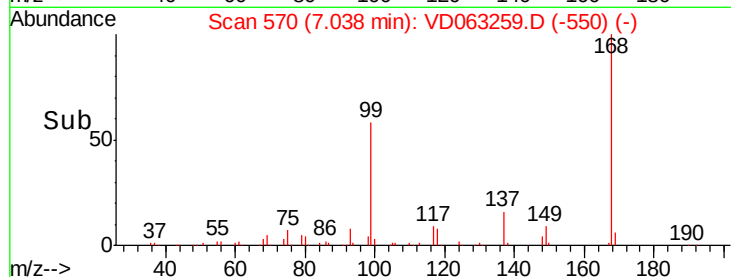
200000

100000

0

6.90 7.00 7.10 7.20

Time-->



#11

Tert butyl alcohol

Concen: 23.445 ug/l

RT: 3.98 min Scan# 259

Delta R.T. -0.09 min

Lab File: VD063259.D

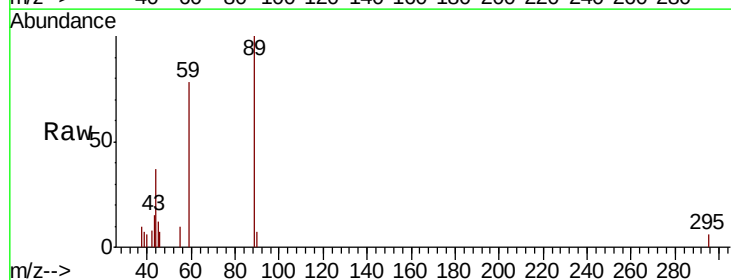
Acq: 31 Jul 2019 1:33

Tgt Ion: 59 Resp: 11073

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

3.98

4000

3000

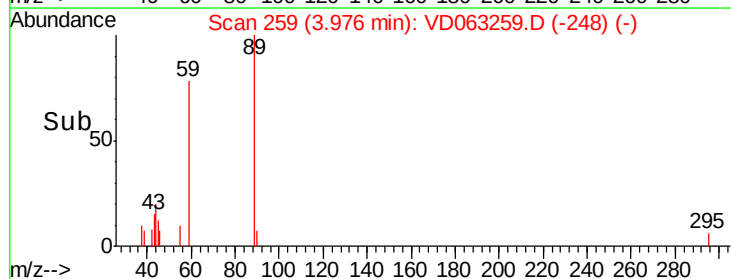
2000

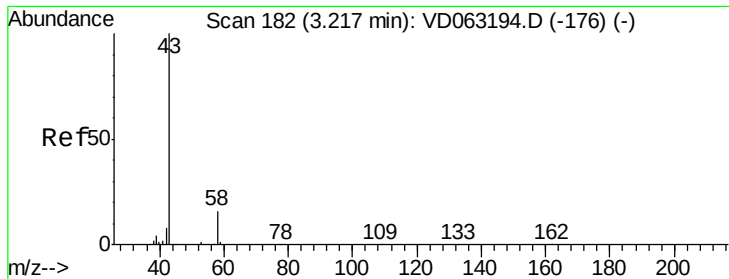
1000

0

3.90 3.95 4.00 4.05

Time-->





#16

Acetone

Concen: 2.940 ug/l

RT: 3.21 min Scan# 181

Delta R.T. -0.01 min

Lab File: VD063259.D

Acq: 31 Jul 2019 1:33

Instrument :

MSVOA_D

ClientSampleId :

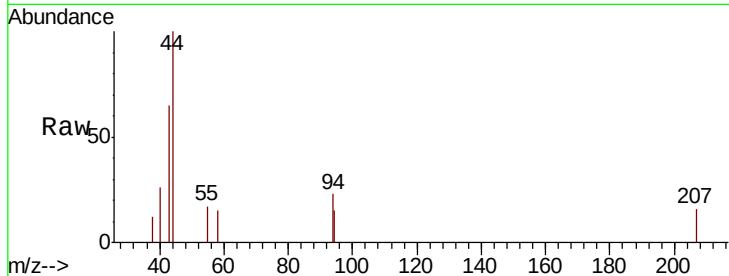
SP-9

Tot Ion: 43 Resp: 6165

Ion Ratio Lower Upper

43 100

58 23.8 13.0 19.4#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

2000

1500

1000

500

0

3.10

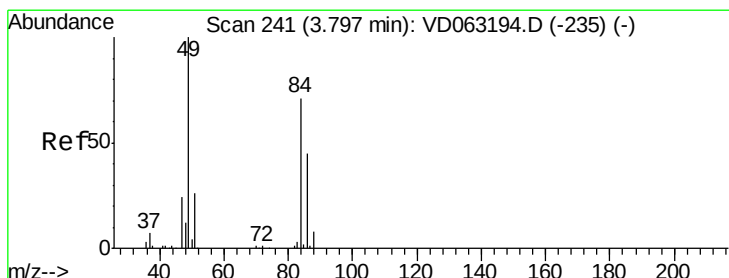
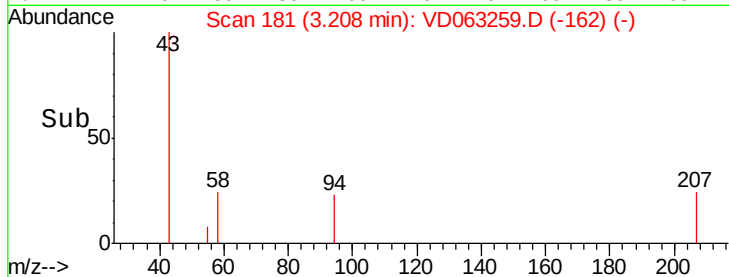
3.15

3.20

3.25

3.30

Time-->



#20

Methylene Chloride

Concen: 3.123 ug/l

RT: 3.80 min Scan# 241

Delta R.T. 0.00 min

Lab File: VD063259.D

Acq: 31 Jul 2019 1:33

Tgt Ion: 84 Resp: 26470

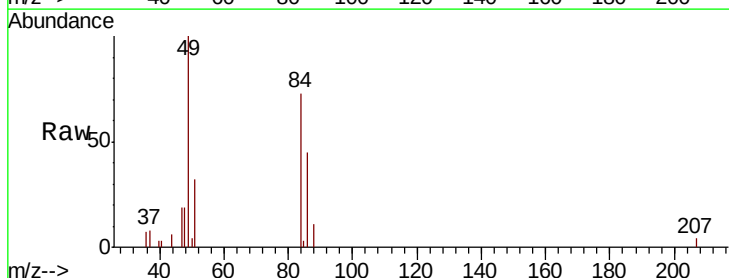
Ion Ratio Lower Upper

84 100

49 136.6 112.5 168.7

51 43.6 29.6 44.4

86 62.0 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

20000

15000

10000

5000

0

3.70

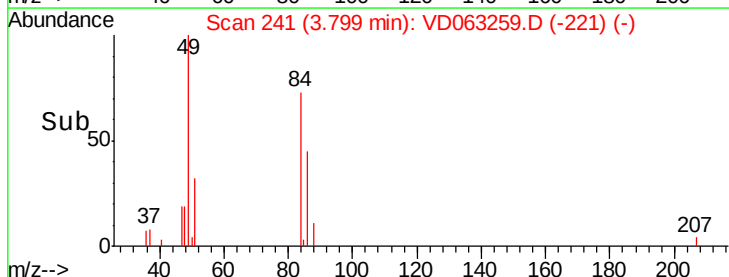
3.75

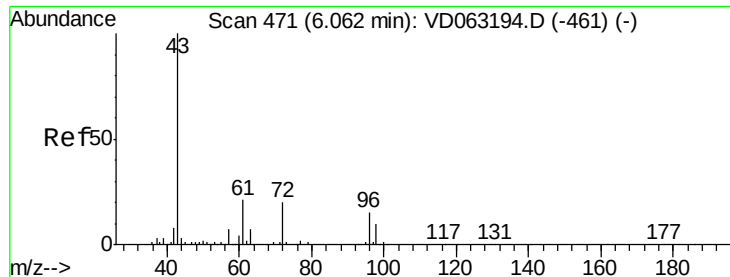
3.80

3.85

3.90

Time-->





#25

2-Butanone

Concen: 3.947 ug/l

RT: 6.16 min Scan# 481

Delta R.T. 0.10 min

Lab File: VD063259.D

Acq: 31 Jul 2019 1:33

Instrument :

MSVOA_D

ClientSampleId :

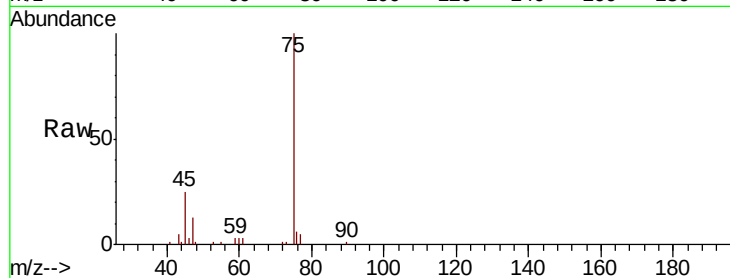
SP-9

Tot Ion: 43 Resp: 8305

Ion Ratio Lower Upper

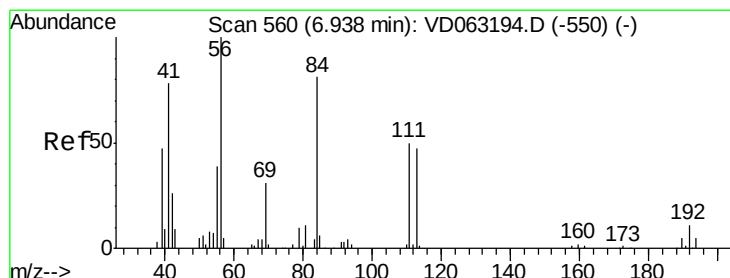
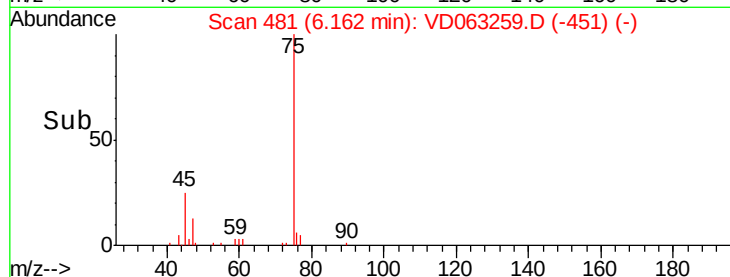
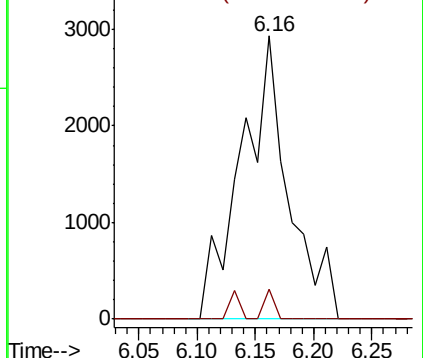
43 100

72 10.8 16.3 24.5#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#31

Cyclohexane

Concen: 2.145 ug/l

RT: 7.04 min Scan# 570

Delta R.T. 0.10 min

Lab File: VD063259.D

Acq: 31 Jul 2019 1:33

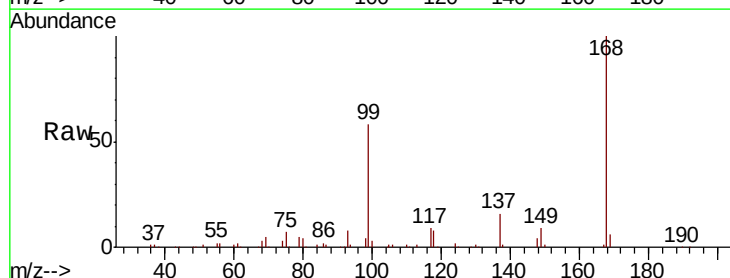
Tgt Ion: 56 Resp: 20563

Ion Ratio Lower Upper

56 100

69 195.0 24.5 36.7#

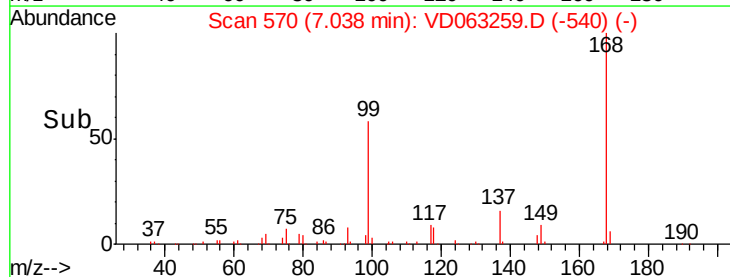
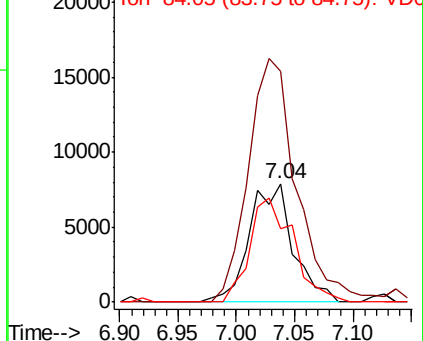
84 61.6 64.9 97.3#

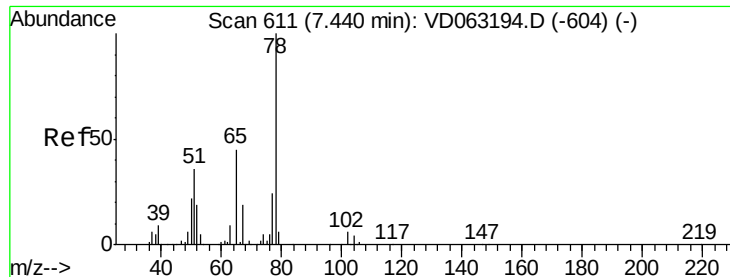


Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 84.05 (83.75 to 84.75): VDC

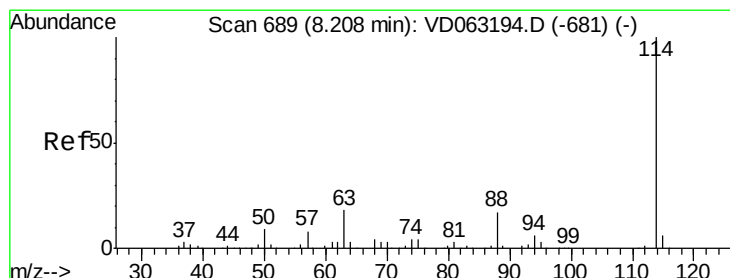
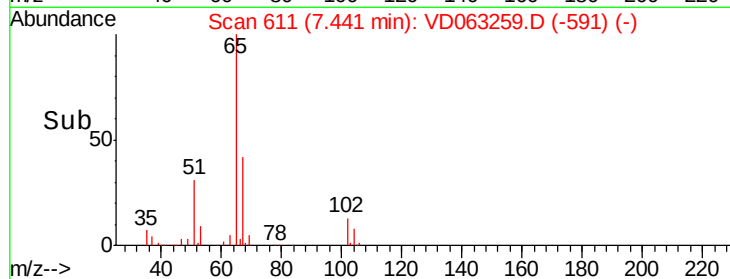
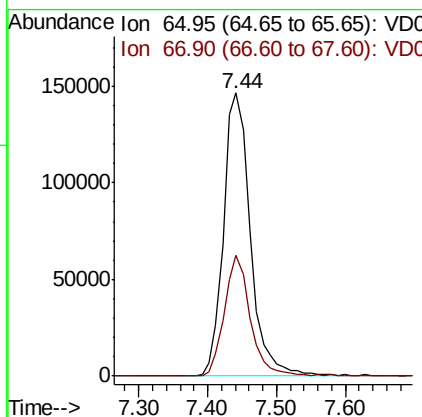
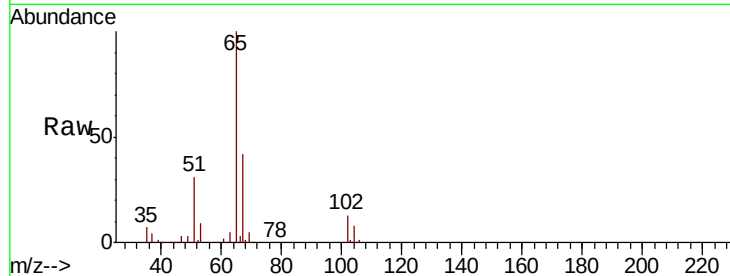




#33
 1,2-Dichloroethane-d4
 Concen: 36.778 ug/l
 RT: 7.44 min Scan# 611
 Delta R.T. 0.00 min
 Lab File: VD063259.D
 Acq: 31 Jul 2019 1:33

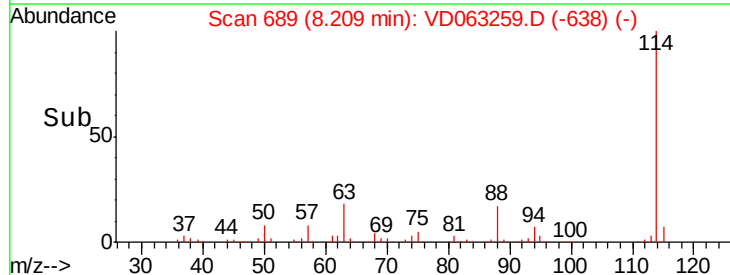
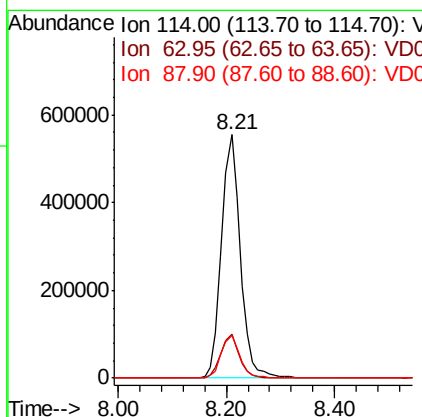
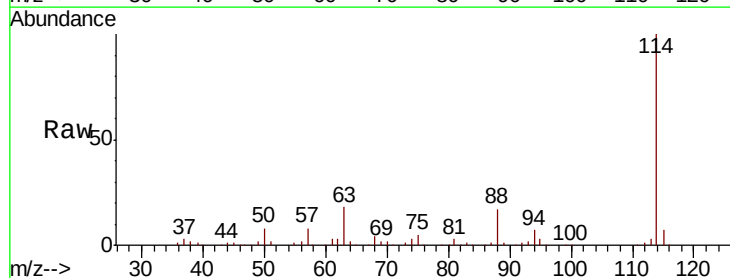
Instrument :
 MSVOA_D
 ClientSampleId :
 SP-9

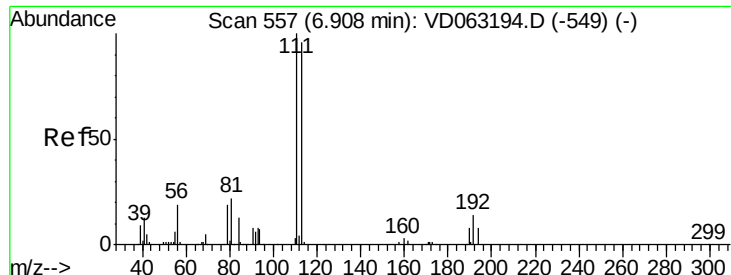
Tot Ion: 65 Resp: 395804
 Ion Ratio Lower Upper
 65 100
 67 42.5 0.0 85.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.21 min Scan# 689
 Delta R.T. 0.00 min
 Lab File: VD063259.D
 Acq: 31 Jul 2019 1:33

Tgt Ion: 114 Resp: 1336601
 Ion Ratio Lower Upper
 114 100
 63 18.1 0.0 35.2
 88 17.3 0.0 34.6

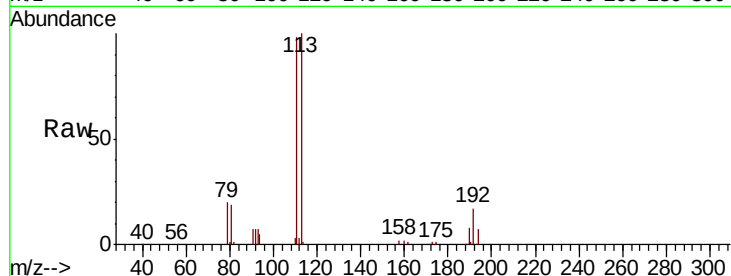




#35
 Dibromofluoromethane
 Concen: 41.726 ug/l
 RT: 6.91 min Scan# 557
 Delta R.T. 0.00 min
 Lab File: VD063259.D
 Acq: 31 Jul 2019 1:33

Instrument :
 MSVOA_D
 ClientSampleId :
 SP-9

Tot Ion	Ratio	Lower	Upper
113	100		
111	97.8	83.2	124.8
192	16.8	11.8	17.8

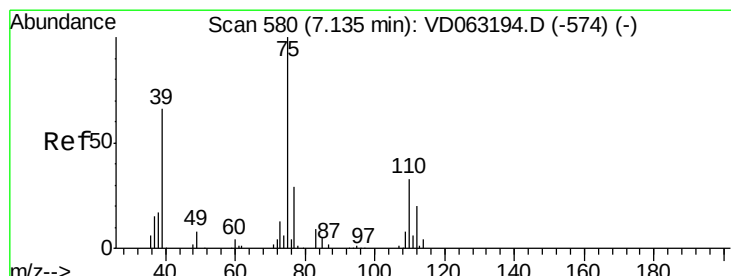
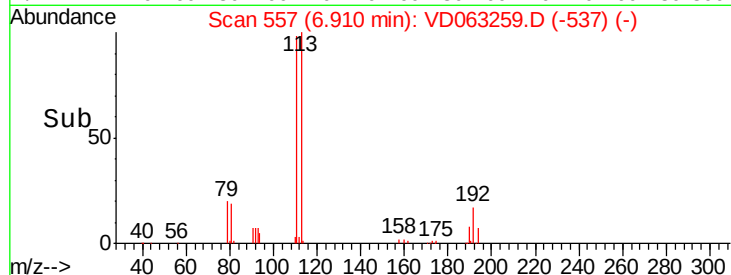
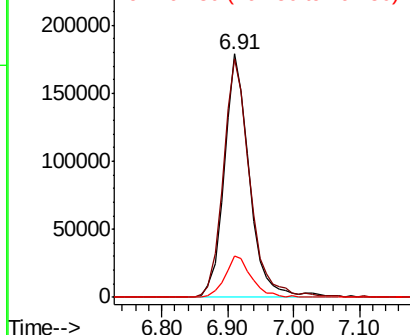


Abundance

Ion 112.90 (112.60 to 113.60): V

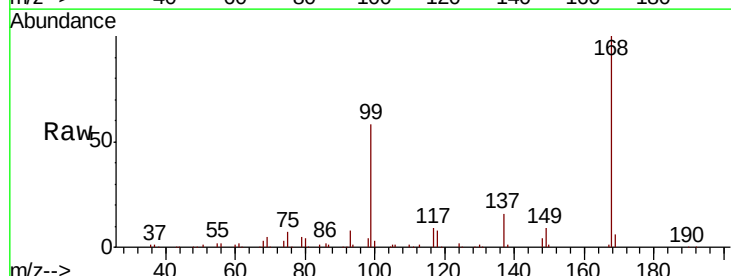
Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V



#36
 1,1-Dichloropropene
 Concen: 5.874 ug/l
 RT: 7.04 min Scan# 570
 Delta R.T. -0.10 min
 Lab File: VD063259.D
 Acq: 31 Jul 2019 1:33

Tgt Ion	Ratio	Lower	Upper
75	100		
110	11.3	16.1	48.2#
77	0.0	22.7	34.1#

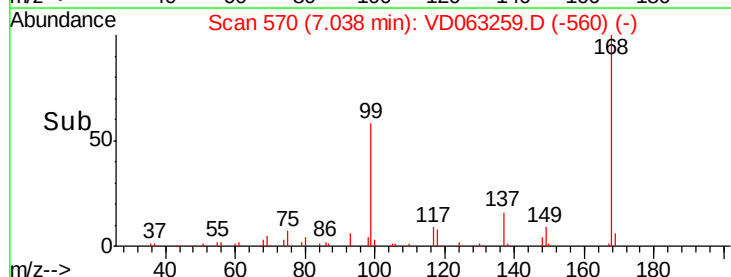
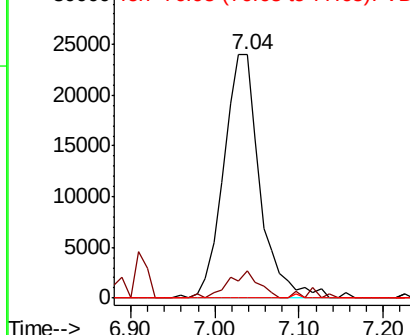


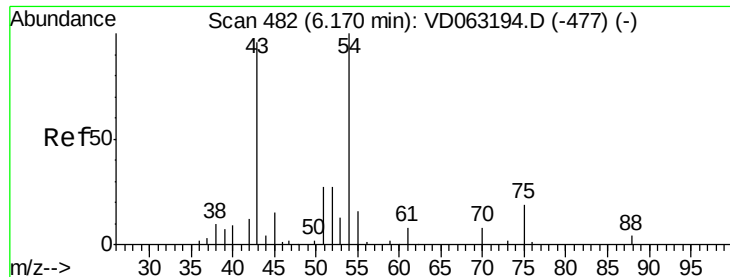
Abundance

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: 1.515 ug/l

RT: 6.16 min Scan# 481

Delta R.T. -0.01 min

Lab File: VD063259.D

Acq: 31 Jul 2019 1:33

Instrument :

MSVOA_D

ClientSampleId :

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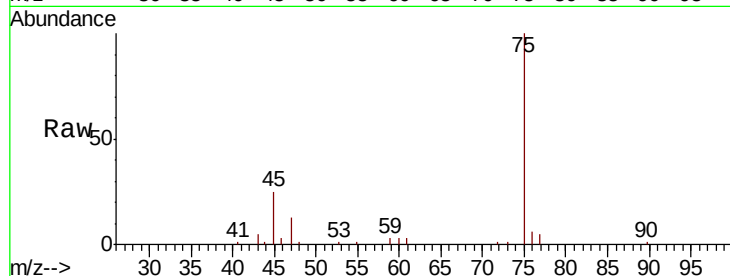
Tot Ion: 43 Resp: 8304

Ion Ratio Lower Upper

43 100

61 55.7 11.3 16.9#

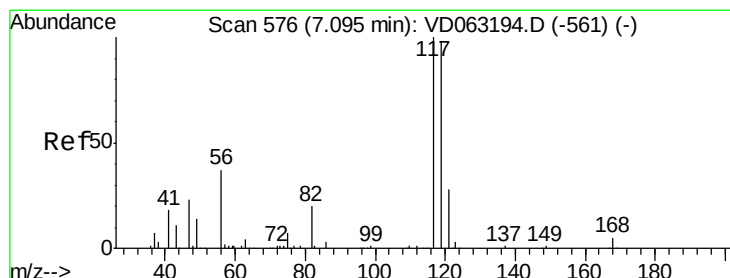
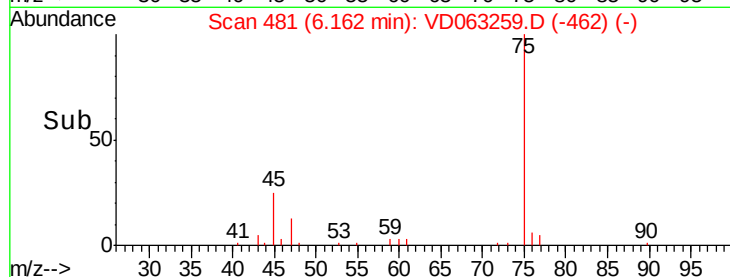
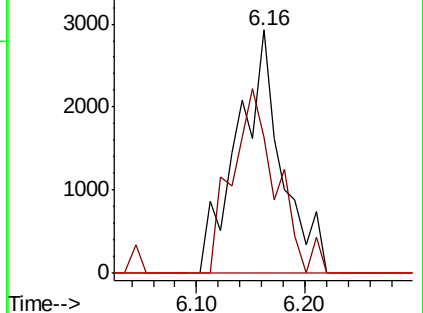
70 0.0 5.1 7.7#



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: 5.085 ug/l

RT: 7.03 min Scan# 569

Delta R.T. -0.07 min

Lab File: VD063259.D

Acq: 31 Jul 2019 1:33

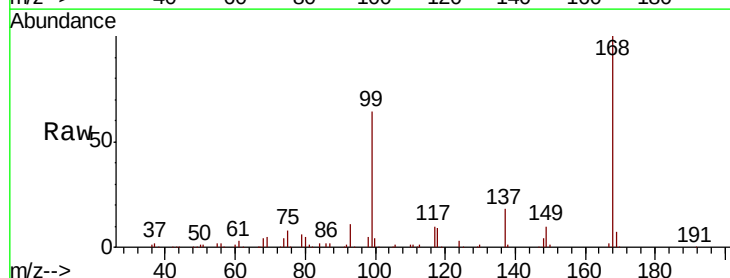
Tgt Ion: 117 Resp: 93378

Ion Ratio Lower Upper

117 100

119 3.8 78.2 117.2#

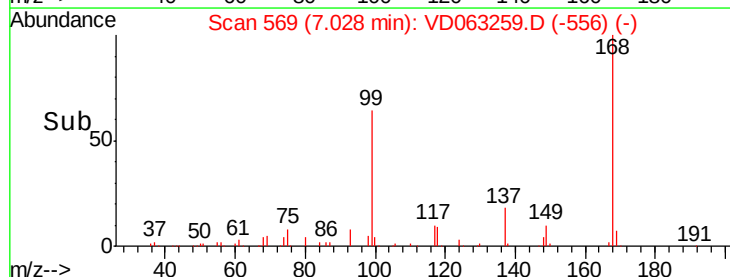
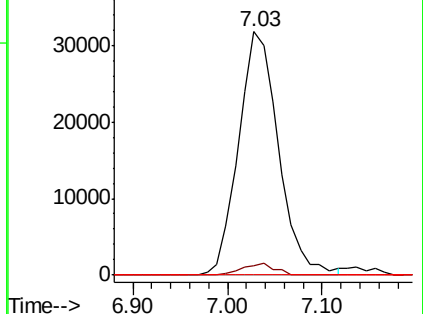
121 0.0 22.1 33.1#

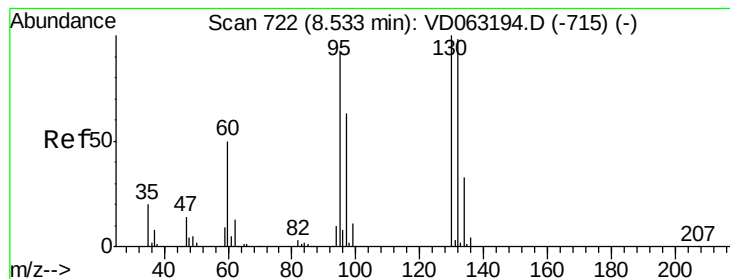


Abundance Ion 116.85 (116.55 to 117.55): V

Ion 118.85 (118.55 to 119.55): V

Ion 120.85 (120.55 to 121.55): V





#44

Trichloroethene

Concen: 20.797 ug/l

RT: 8.53 min Scan# 722

Delta R.T. 0.00 min

Lab File: VD063259.D

Acq: 31 Jul 2019 1:33

Instrument :

MSVOA_D

ClientSampleId :

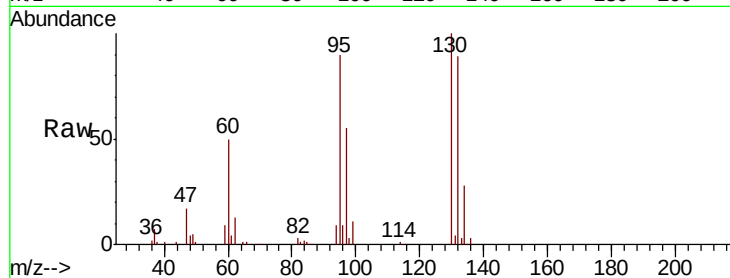
SP-9

Tot Ion:130 Resp: 215442

Ion Ratio Lower Upper

130 100

95 90.4 0.0 185.4

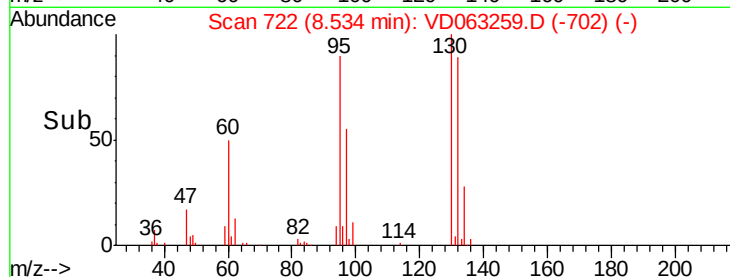


Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VDC

8.53

Time-->



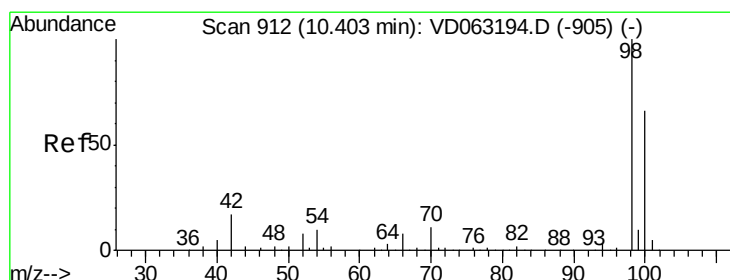
Abundance

Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VDC

8.53

Time-->



#50

Toluene-d8

Concen: 34.643 ug/l

RT: 10.40 min Scan# 912

Delta R.T. 0.00 min

Lab File: VD063259.D

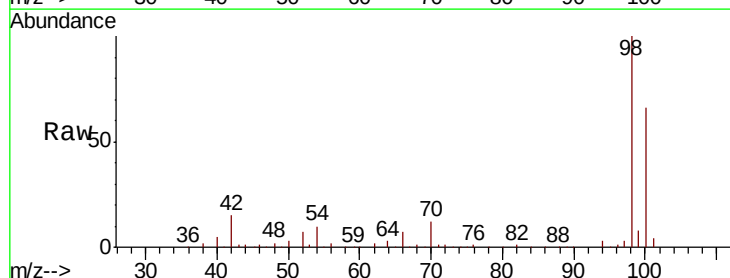
Acq: 31 Jul 2019 1:33

Tgt Ion: 98 Resp: 884770

Ion Ratio Lower Upper

98 100

100 66.0 53.2 79.8

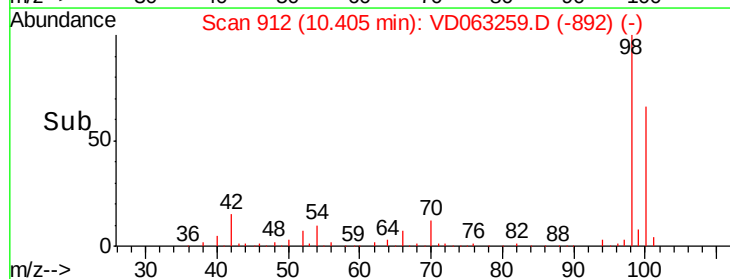


Abundance Ion 98.05 (97.75 to 98.75): VDC

Ion 100.05 (99.75 to 100.75): VDC

10.40

Time-->



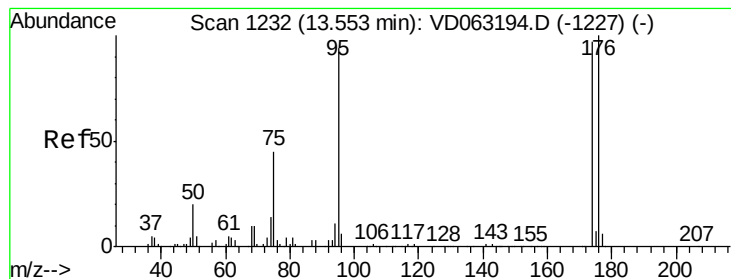
Abundance

Ion 98.05 (97.75 to 98.75): VDC

Ion 100.05 (99.75 to 100.75): VDC

10.40

Time-->



#62

4-Bromofluorobenzene

Concen: 25.701 ug/l

RT: 13.54 min Scan# 1231

Delta R.T. -0.01 min

Lab File: VD063259.D

Acq: 31 Jul 2019 1:33

Instrument :

MSVOA_D

ClientSampled :

SP-9

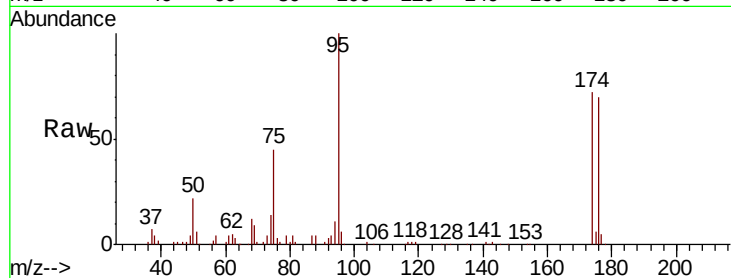
Tot Ion: 95 Resp: 299110

Ion Ratio Lower Upper

95 100

174 72.1 0.0 205.4

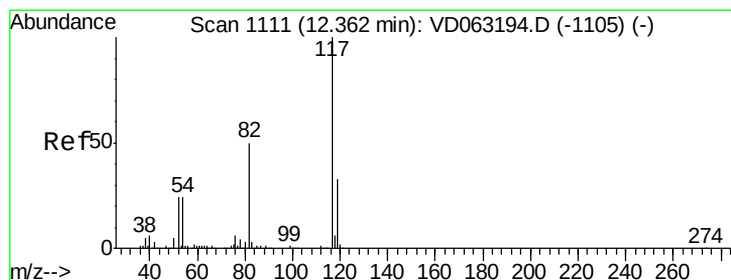
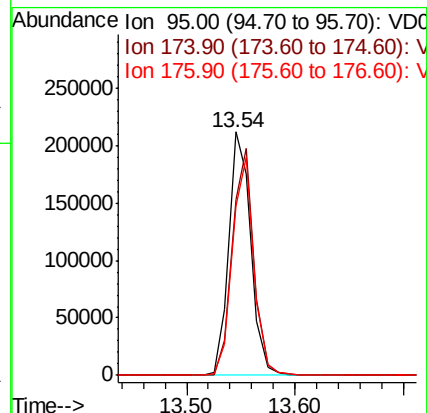
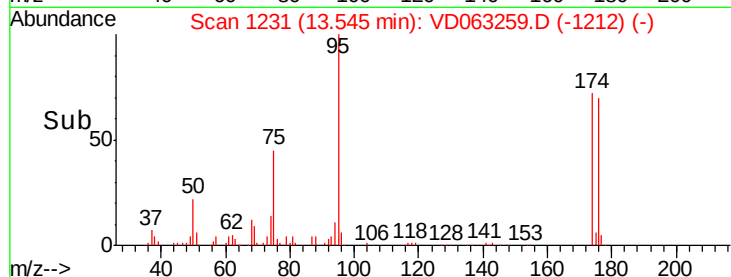
176 69.8 0.0 211.8



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: VD063259.D

Acq: 31 Jul 2019 1:33

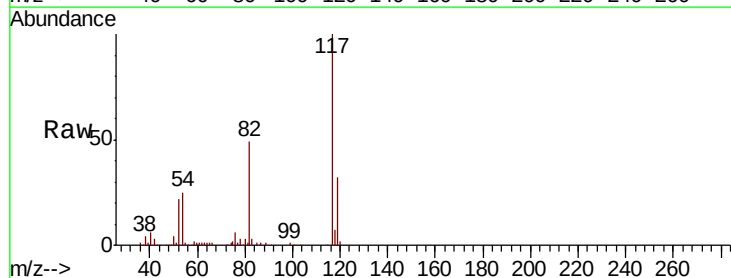
Tgt Ion: 117 Resp: 926407

Ion Ratio Lower Upper

117 100

82 48.9 40.1 60.1

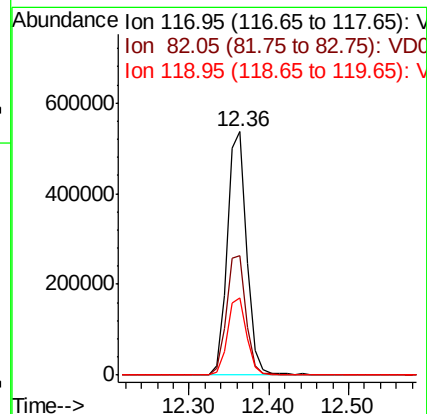
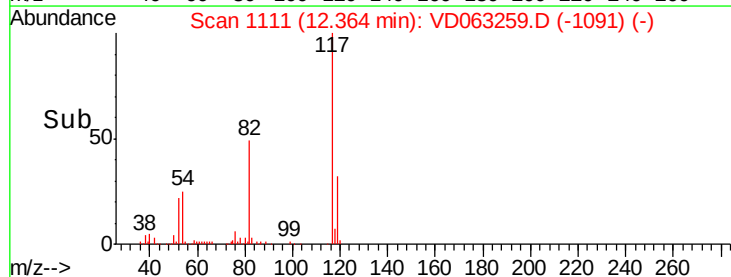
119 31.7 26.5 39.7

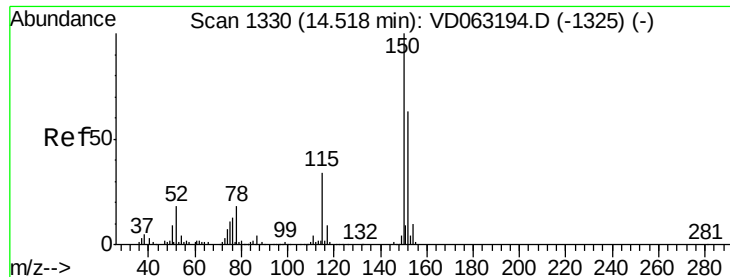


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V



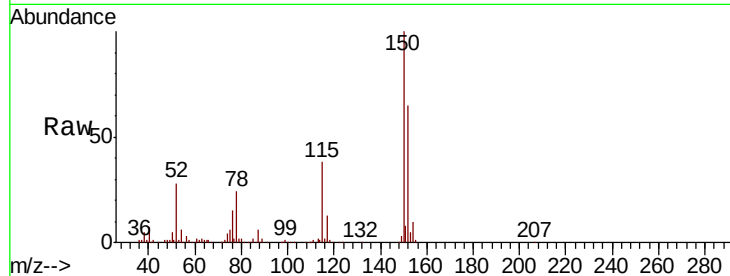


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.51 min Scan# 1329
Delta R.T. -0.01 min
Lab File: VD063259.D
Acq: 31 Jul 2019 1:33

Instrument :
MSVOA_D
ClientSampled :
SP-9

Tot Ion	Ratio	Lower	Upper
152	100		
115	58.3	27.5	82.4
150	153.8	0.0	320.6

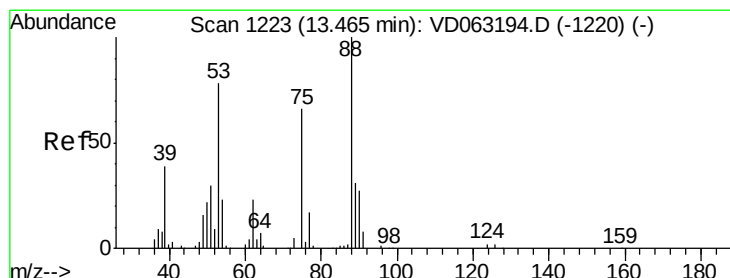
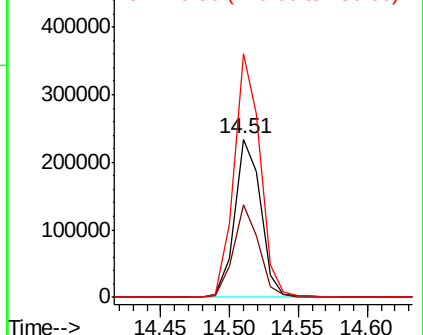
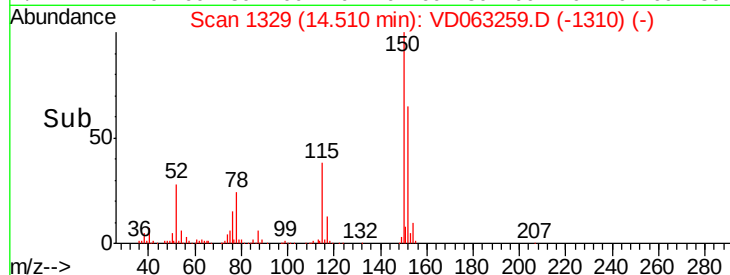


Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 115.00 (114.70 to 115.70): V

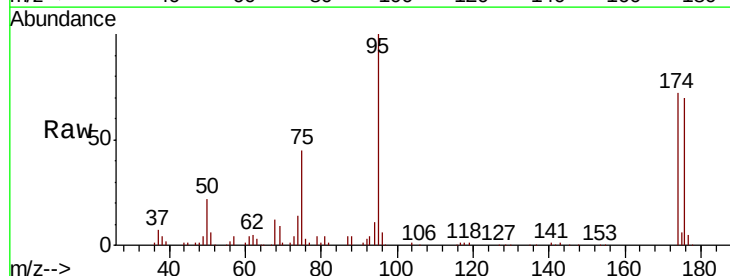
Ion 149.90 (149.60 to 150.60): V



#81

trans-1,4-Dichloro-2-butene
Concen: 123.817 ug/l
RT: 13.54 min Scan# 1231
Delta R.T. 0.08 min
Lab File: VD063259.D
Acq: 31 Jul 2019 1:33

Tgt 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): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC

