

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD080219\
 Data File : VD063314.D
 Acq On : 2 Aug 2019 14:06
 Operator : VA/AP
 Sample : K4120-05RE
 Misc : 5.38g/5ml/MSVOA_D/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 T2-2RE

Quant Time: Aug 04 03:37:56 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	7.03	168	709013	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.20	114	1026613	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.35	117	615022	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.51	152	137226	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.43	65	417373	53.05	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.10%	
35) Dibromofluoromethane	6.91	113	462780	52.80	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.60%	
50) Toluene-d8	10.39	98	850206	43.34	ug/l	0.00
Spiked Amount	50.000		Recovery	=	86.68%	
62) 4-Bromofluorobenzene	13.54	95	172586	19.31	ug/l	0.00
Spiked Amount	50.000		Recovery	=	38.62%	

Target Compounds

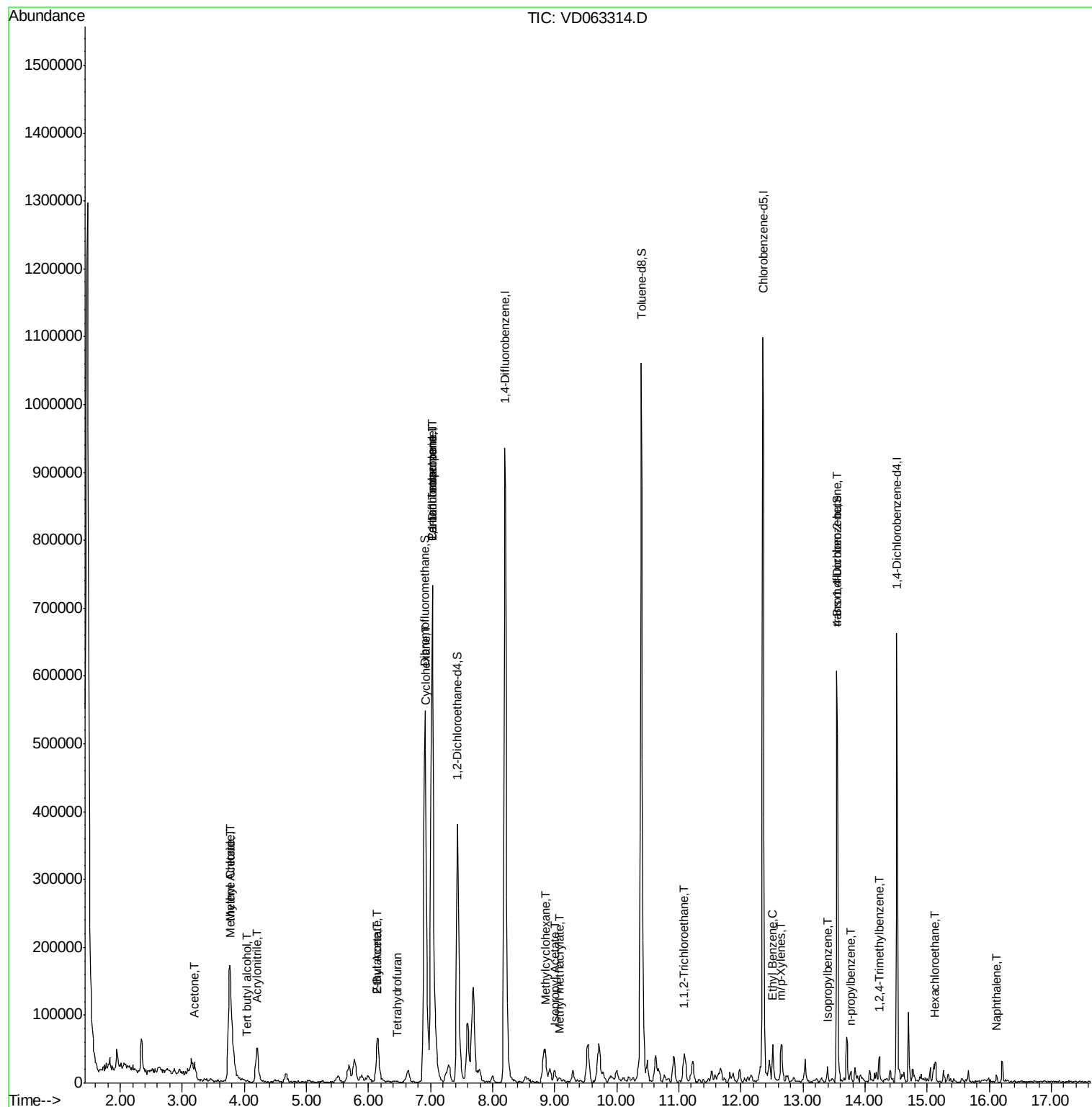
						Qvalue
11) Tert butyl alcohol	4.03	59	1347	3.902	ug/l #	69
15) Acrylonitrile	4.21	53	2082	2.326	ug/l #	28
16) Acetone	3.20	43	41181	26.866	ug/l	98
18) Methyl Acetate	3.77	43	141063	47.910	ug/l #	60
20) Methylene Chloride	3.79	84	14967	2.416	ug/l #	80
25) 2-Butanone	6.15	43	4160	2.704	ug/l	98
29) Tetrahydrofuran	6.45	42	1102	1.513	ug/l #	80
31) Cyclohexane	6.93	56	30103	4.296	ug/l #	83
36) 1,1-Dichloropropene	7.03	75	52096	5.560	ug/l #	53
37) Ethyl Acetate	6.15	43	6892	1.637	ug/l #	31
38) Carbon Tetrachloride	7.03	117	69838	4.951	ug/l #	15
39) Methylcyclohexane	8.85	83	23771	3.045	ug/l #	70
43) Isopropyl Acetate	9.00	43	7354	1.368	ug/l #	49
48) Methyl methacrylate	9.08	41	3600	1.032	ug/l #	36
55) 1,1,2-Trichloroethane	11.08	97	15006	3.402	ug/l #	20
67) Ethyl Benzene	12.51	91	36320	1.807	ug/l	94
68) m/p-Xylenes	12.65	106	14751	2.002	ug/l	94
73) Isopropylbenzene	13.40	105	11833	1.374	ug/l	92
78) n-propylbenzene	13.77	91	10685	1.043	ug/l	81
81) trans-1,4-Dichloro-2-buten	13.54	75	75641	165.267	ug/l #	3
84) 1,2,4-Trimethylbenzene	14.23	105	16506	2.148	ug/l	89
90) Hexachloroethane	15.13	117	9836	4.426	ug/l #	14
95) Naphthalene	16.11	128	6359	1.498	ug/l #	70

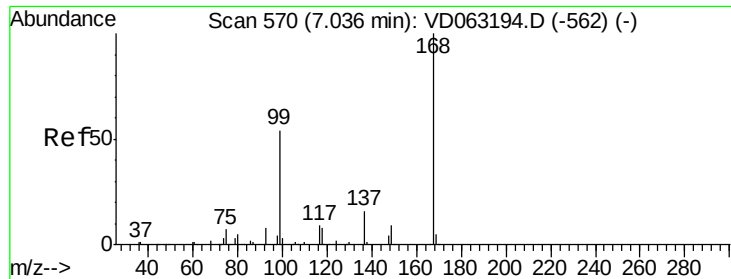
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: 7.03 min Scan# 569

Delta R.T. -0.01 min

Lab File: VD063314.D

Acq: 2 Aug 2019 14:06

Instrument :

MSVOA_D

ClientSampleId :

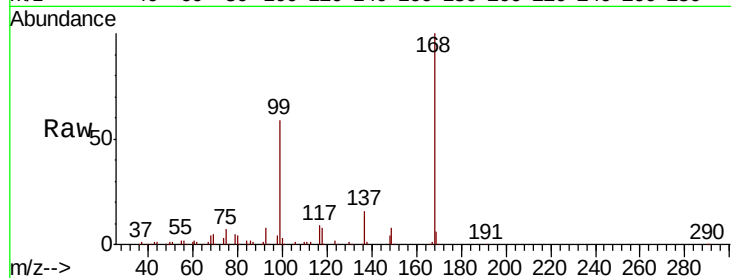
T2-2RE

Tgt Ion:168 Resp: 709013

Ion Ratio Lower Upper

168 100

99 58.6 43.7 65.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.03

250000

200000

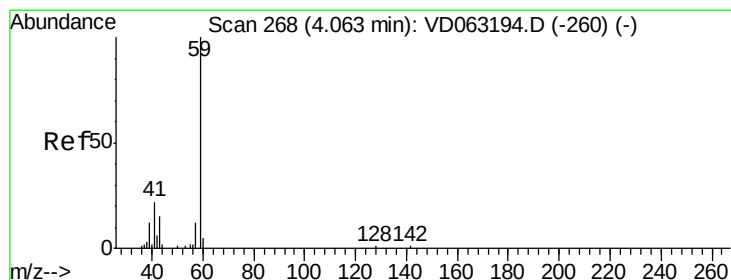
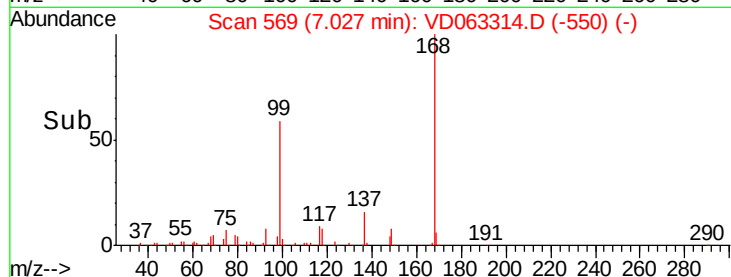
150000

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 3.902 ug/l

RT: 4.03 min Scan# 265

Delta R.T. -0.03 min

Lab File: VD063314.D

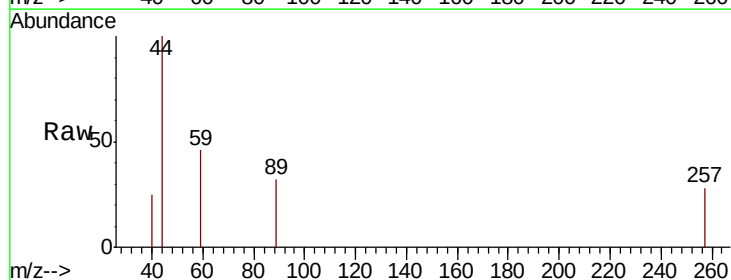
Acq: 2 Aug 2019 14:06

Tgt Ion: 59 Resp: 1347

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

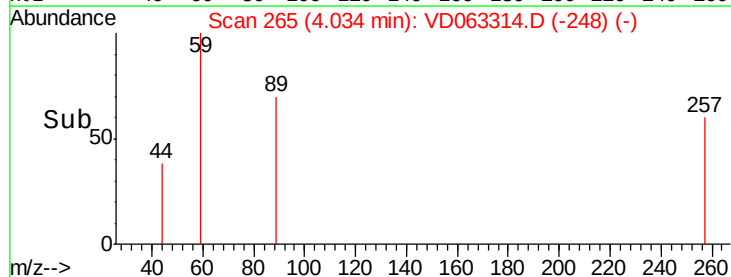
4.03

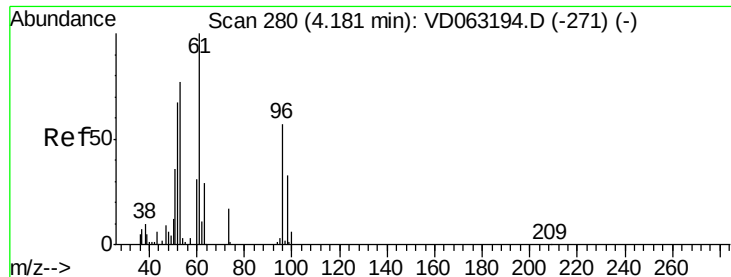
1000

500

0

Time-->





#15

Acrylonitrile

Concen: 2.326 ug/l

RT: 4.21 min Scan# 283

Delta R.T. 0.03 min

Lab File: VD063314.D

Acq: 2 Aug 2019 14:06

Instrument :

MSVOA_D

ClientSampleId :

T2-2RE

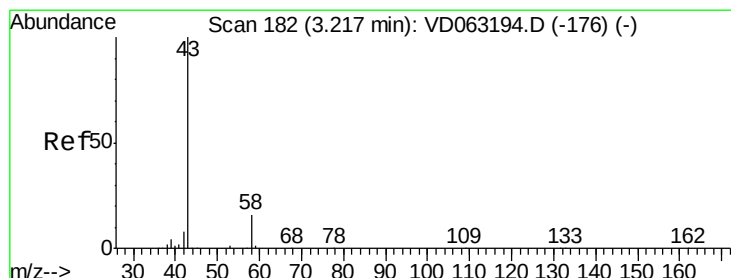
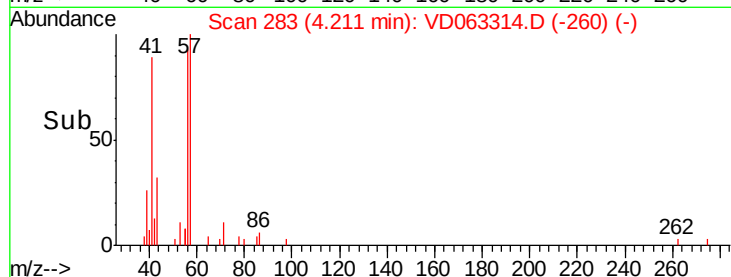
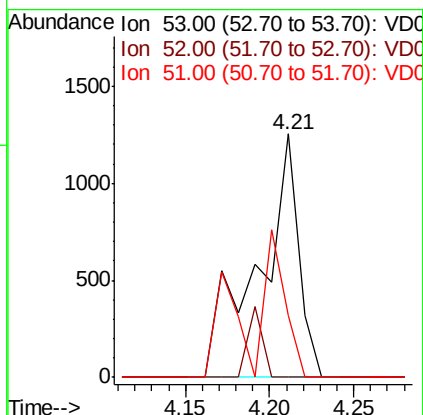
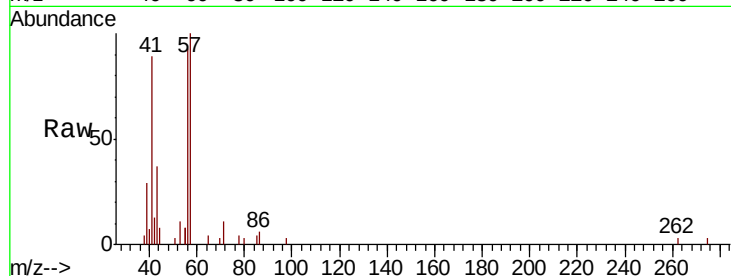
Tgt Ion: 53 Resp: 2082

Ion Ratio Lower Upper

53 100

52 0.0 69.7 104.5#

51 25.4 37.4 56.0#



#16

Acetone

Concen: 26.866 ug/l

RT: 3.20 min Scan# 180

Delta R.T. -0.02 min

Lab File: VD063314.D

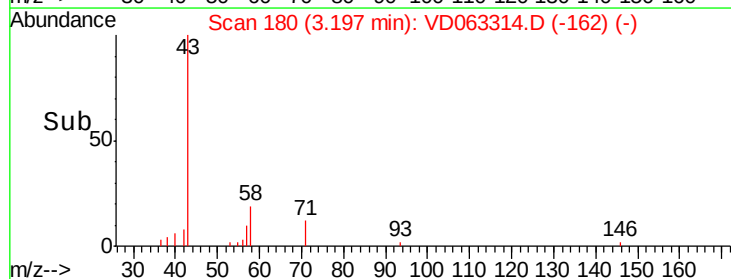
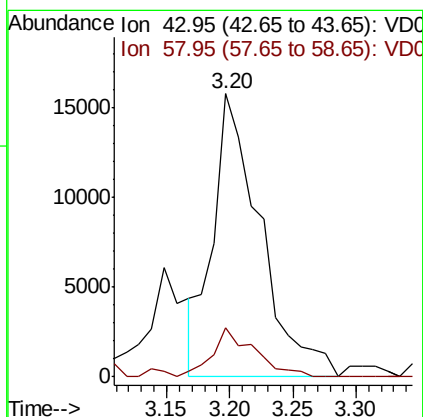
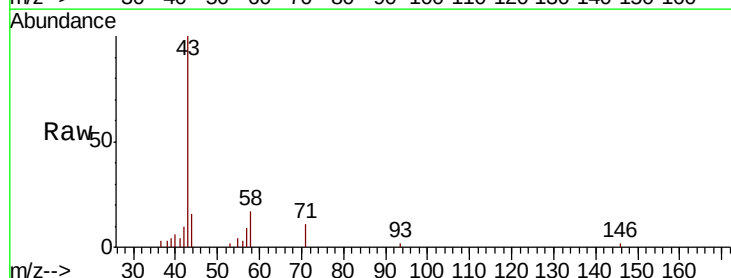
Acq: 2 Aug 2019 14:06

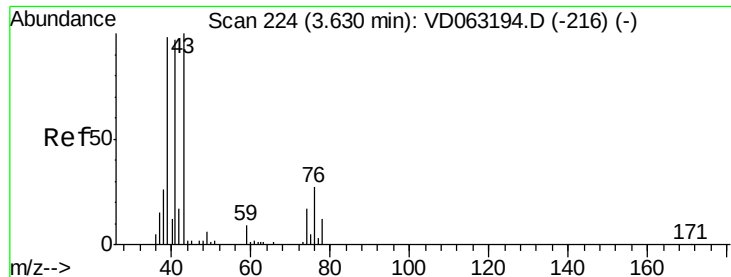
Tgt Ion: 43 Resp: 41181

Ion Ratio Lower Upper

43 100

58 17.2 13.0 19.4

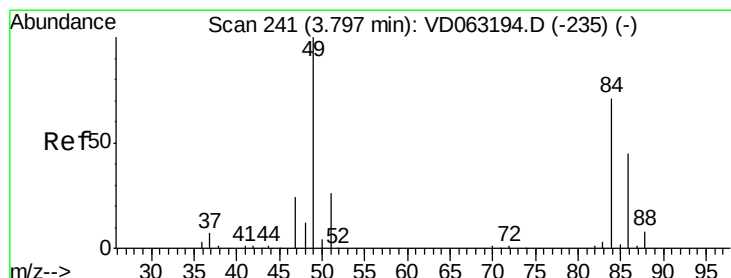
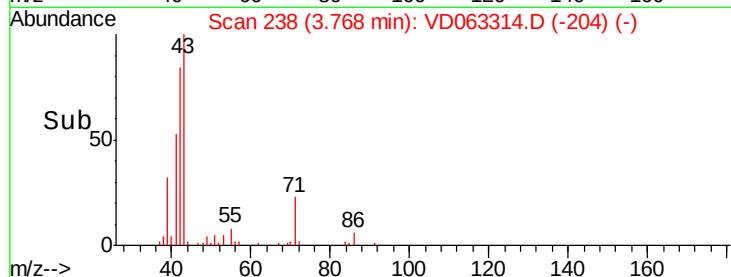
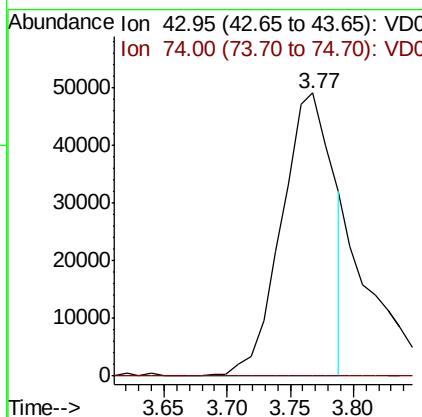
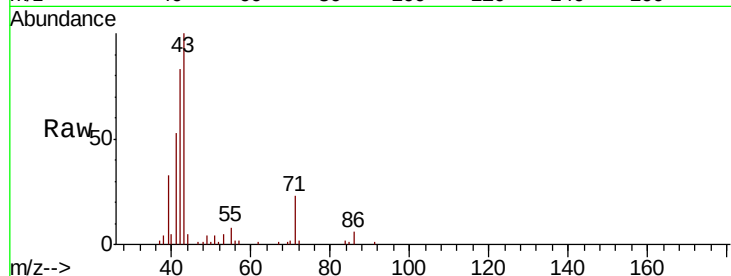




#18
Methyl Acetate
Concen: 47.910 ug/l
RT: 3.77 min Scan# 238
Delta R.T. 0.14 min
Lab File: VD063314.D
Acq: 2 Aug 2019 14:06

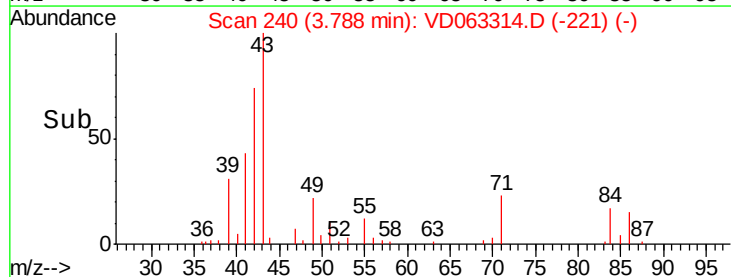
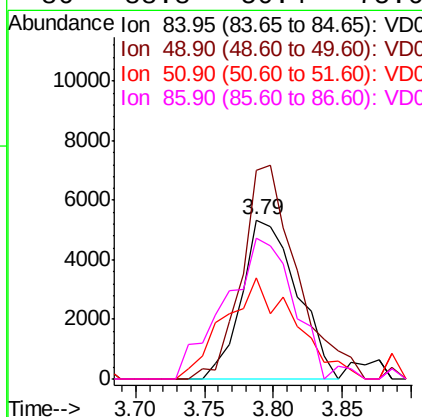
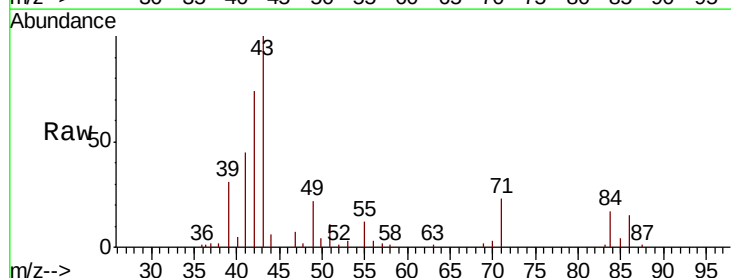
Instrument :
MSVOA_D
ClientSampled :
T2-2RE

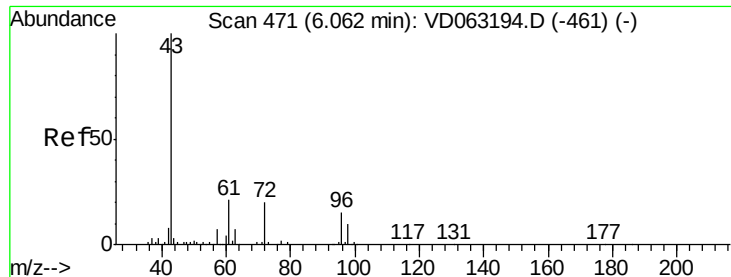
Tgt Ion: 43 Resp: 141063
Ion Ratio Lower Upper
43 100
74 0.0 13.8 20.8#



#20
Methylene Chloride
Concen: 2.416 ug/l
RT: 3.79 min Scan# 240
Delta R.T. -0.01 min
Lab File: VD063314.D
Acq: 2 Aug 2019 14:06

Tgt Ion: 84 Resp: 14967
Ion Ratio Lower Upper
84 100
49 131.3 112.5 168.7
51 63.7 29.6 44.4#
86 88.8 50.4 75.6#





#25

2-Butanone

Concen: 2.704 ug/l

RT: 6.15 min Scan# 480

Delta R.T. 0.09 min

Lab File: VD063314.D

Acq: 2 Aug 2019 14:06

Instrument :

MSVOA_D

ClientSampleId :

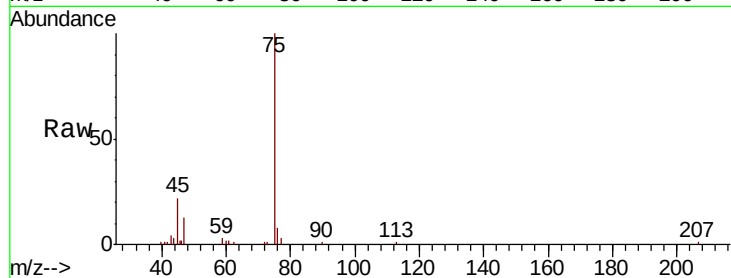
T2-2RE

Tgt Ion: 43 Resp: 4160

Ion Ratio Lower Upper

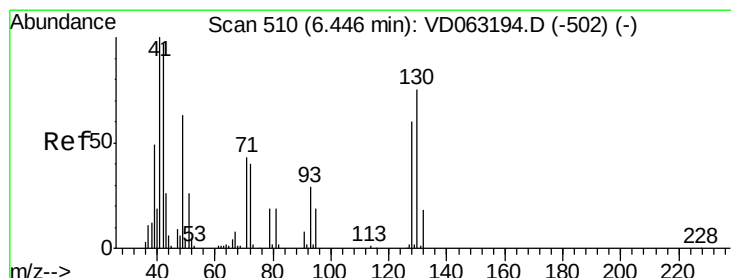
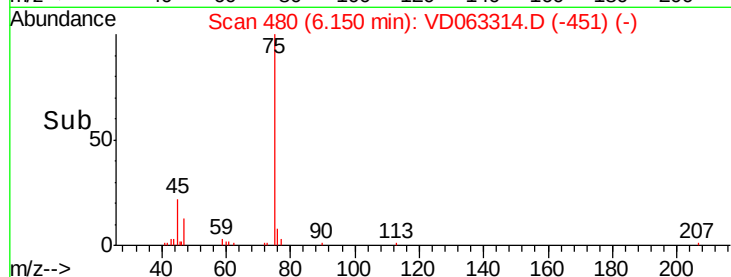
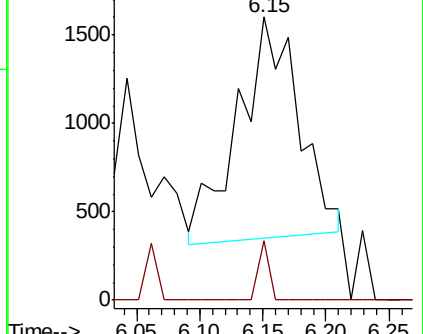
43 100

72 21.2 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: 1.513 ug/l

RT: 6.45 min Scan# 510

Delta R.T. 0.00 min

Lab File: VD063314.D

Acq: 2 Aug 2019 14:06

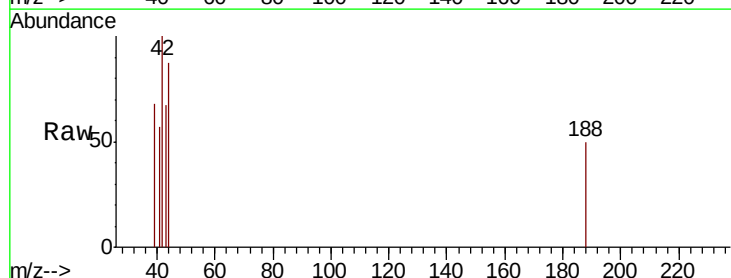
Tgt Ion: 42 Resp: 1102

Ion Ratio Lower Upper

42 100

72 55.0 33.4 50.2#

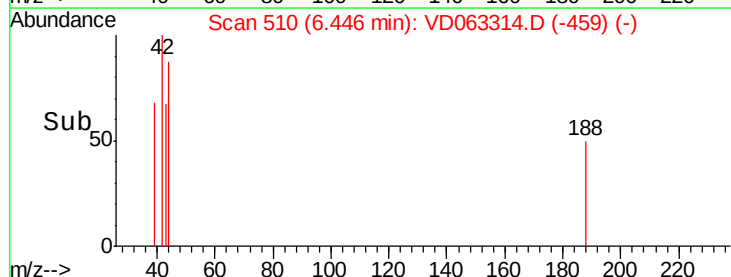
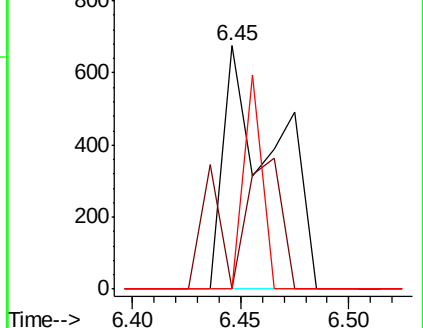
71 31.9 35.7 53.5#

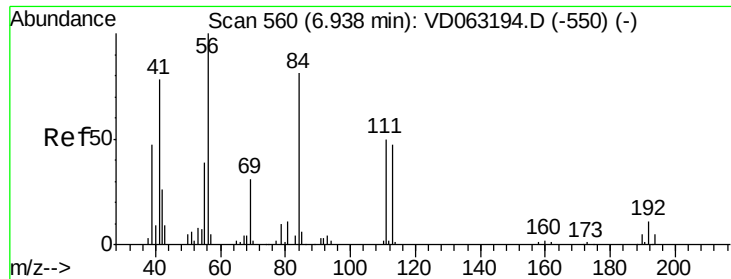


Abundance Ion 42.00 (41.70 to 42.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

Ion 71.00 (70.70 to 71.70): VDC

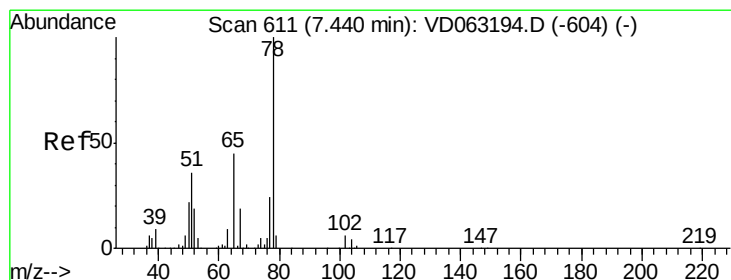
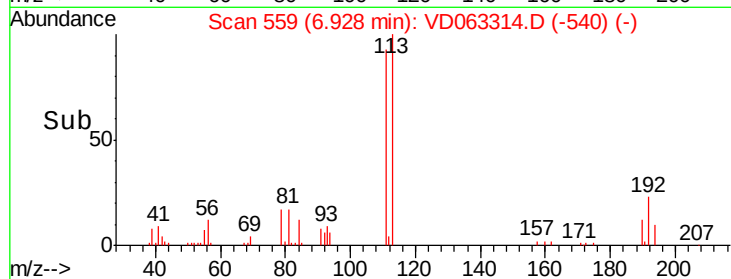
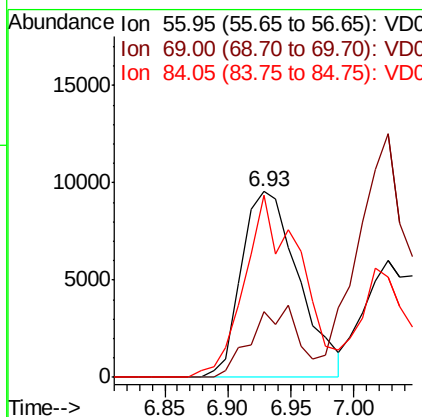
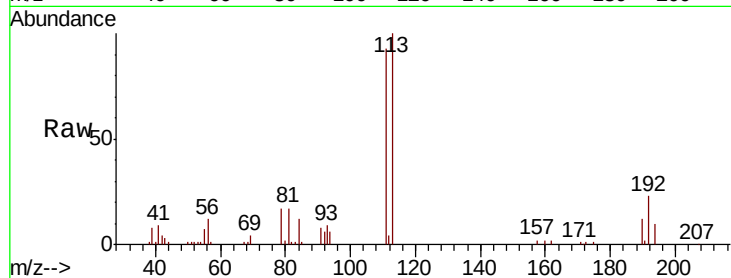




#31
Cyclohexane
Concen: 4.296 ug/l
RT: 6.93 min Scan# 559
Delta R.T. -0.01 min
Lab File: VD063314.D
Acq: 2 Aug 2019 14:06

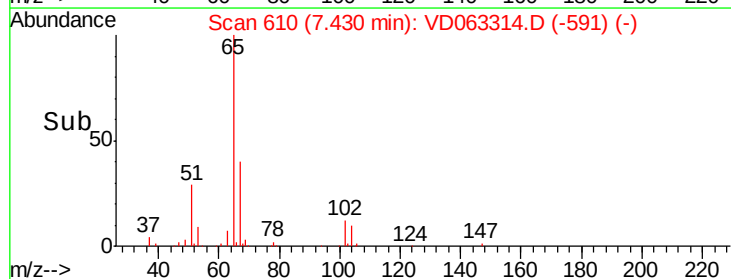
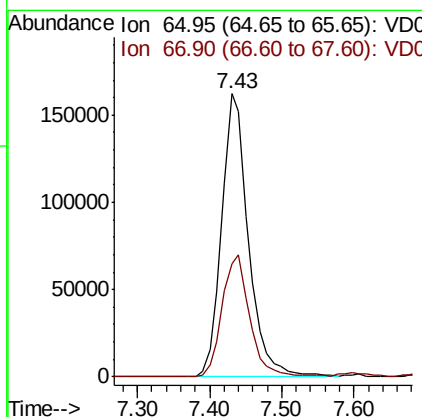
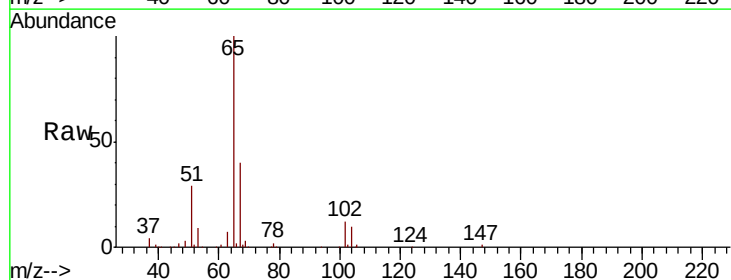
Instrument :
MSVOA_D
ClientSampleId :
T2-2RE

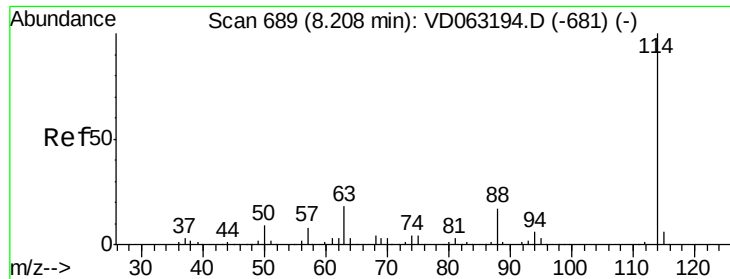
Tgt Ion: 56 Resp: 30103
Ion Ratio Lower Upper
56 100
69 35.6 24.5 36.7
84 98.6 64.9 97.3#



#33
1,2-Dichloroethane-d4
Concen: 53.052 ug/l
RT: 7.43 min Scan# 610
Delta R.T. -0.01 min
Lab File: VD063314.D
Acq: 2 Aug 2019 14:06

Tgt Ion: 65 Resp: 417373
Ion Ratio Lower Upper
65 100
67 40.2 0.0 85.8

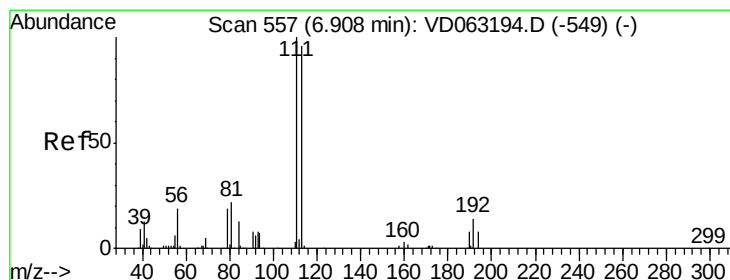
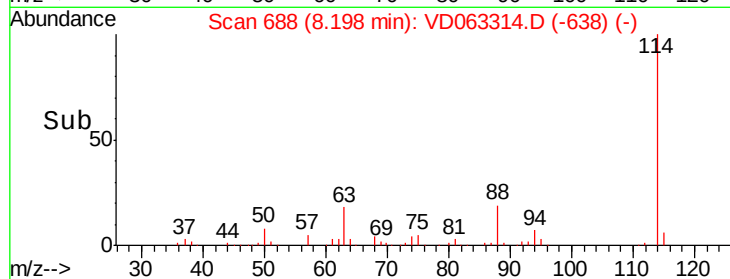
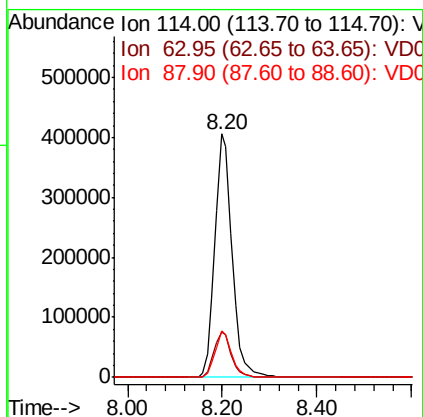
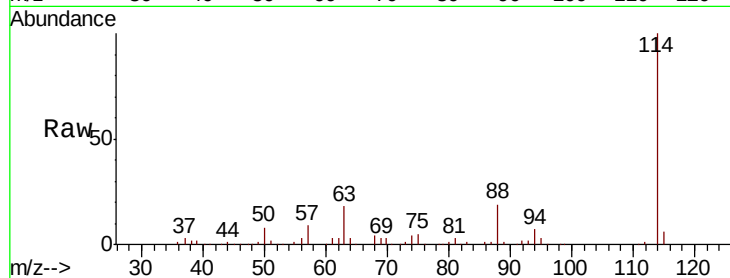




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.20 min Scan# 688
 Delta R.T. -0.01 min
 Lab File: VD063314.D
 Acq: 2 Aug 2019 14:06

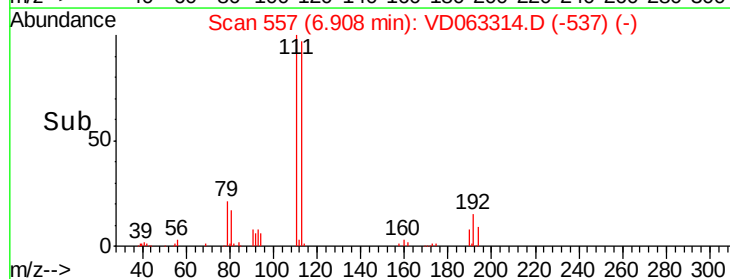
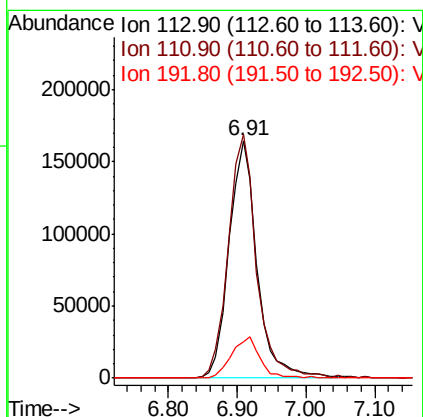
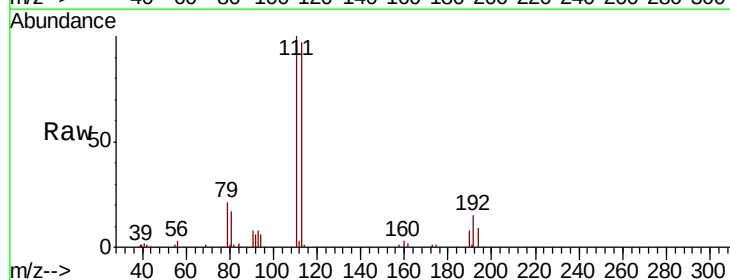
Instrument :
 MSVOA_D
 ClientSampleId :
 T2-2RE

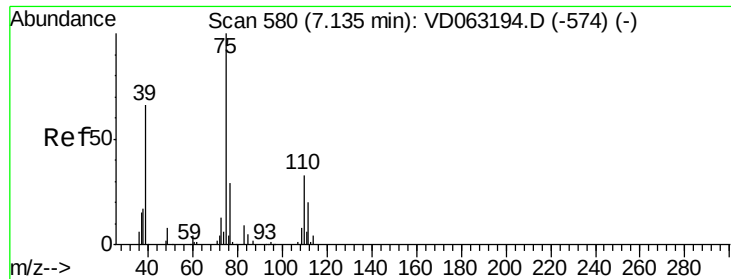
Tgt Ion:114 Resp: 1026613
 Ion Ratio Lower Upper
 114 100
 63 18.4 0.0 35.2
 88 19.0 0.0 34.6



#35
 Dibromofluoromethane
 Concen: 52.798 ug/l
 RT: 6.91 min Scan# 557
 Delta R.T. 0.00 min
 Lab File: VD063314.D
 Acq: 2 Aug 2019 14:06

Tgt Ion:113 Resp: 462780
 Ion Ratio Lower Upper
 113 100
 111 102.6 83.2 124.8
 192 15.2 11.8 17.8

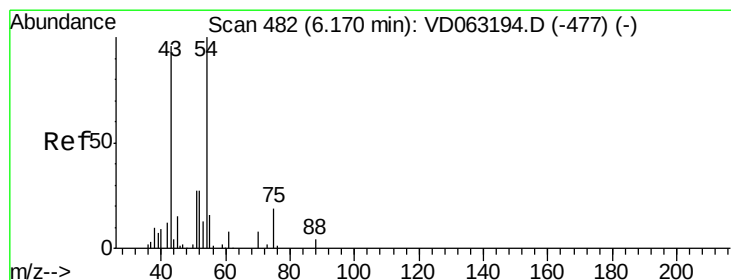
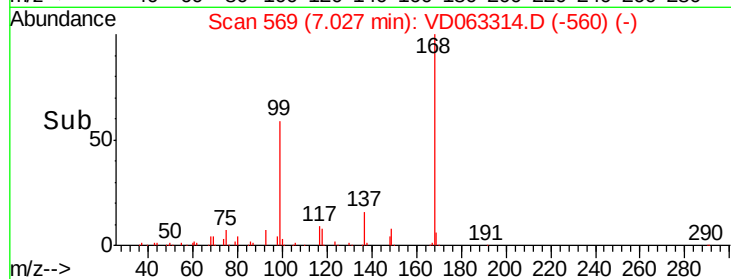
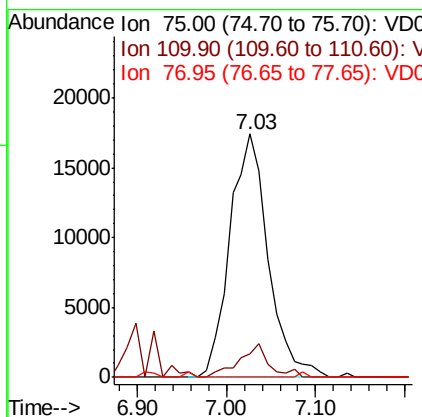
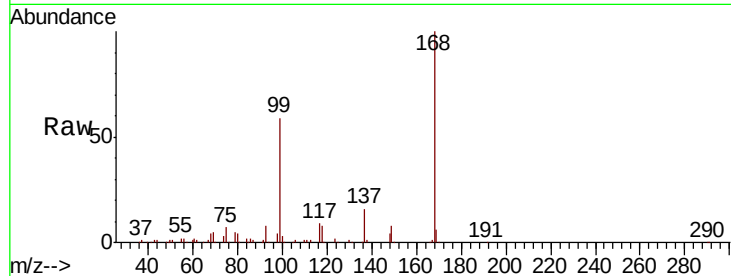




#36
 1,1-Dichloropropene
 Concen: 5.560 ug/l
 RT: 7.03 min Scan# 569
 Delta R.T. -0.11 min
 Lab File: VD063314.D
 Acq: 2 Aug 2019 14:06

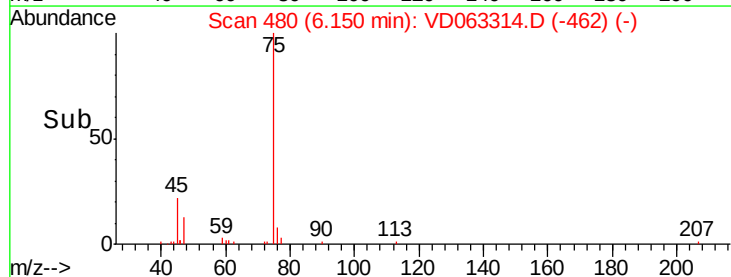
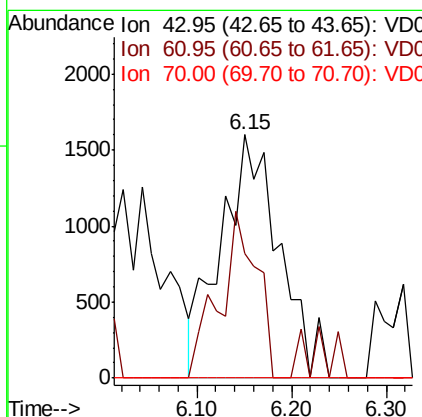
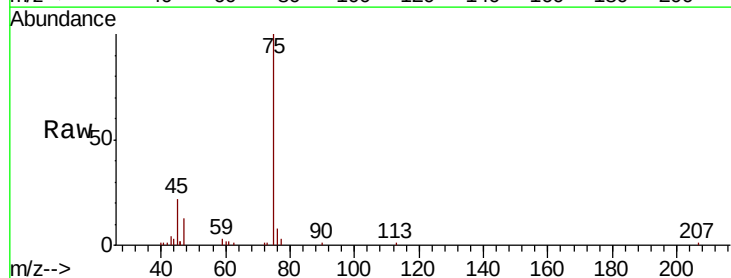
Instrument :
 MSVOA_D
 ClientSampleId :
 T2-2RE

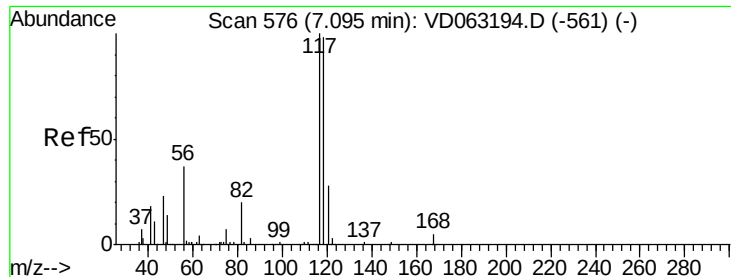
Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.4	16.1	48.2#
77	0.0	22.7	34.1#



#37
 Ethyl Acetate
 Concen: 1.637 ug/l
 RT: 6.15 min Scan# 480
 Delta R.T. -0.02 min
 Lab File: VD063314.D
 Acq: 2 Aug 2019 14:06

Tgt Ion	Ratio	Lower	Upper
43	100		
61	51.3	11.3	16.9#
70	0.0	5.1	7.7#





#38

Carbon Tetrachloride

Concen: 4.951 ug/l

RT: 7.03 min Scan# 569

Delta R.T. -0.07 min

Lab File: VD063314.D

Acq: 2 Aug 2019 14:06

Instrument :

MSVOA_D

ClientSampleId :

T2-2RE

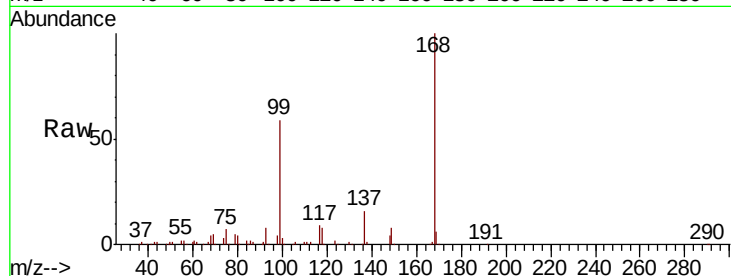
Tgt Ion:117 Resp: 69838

Ion Ratio Lower Upper

117 100

119 4.4 78.2 117.2#

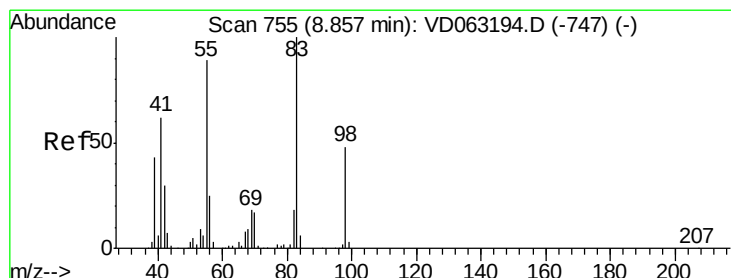
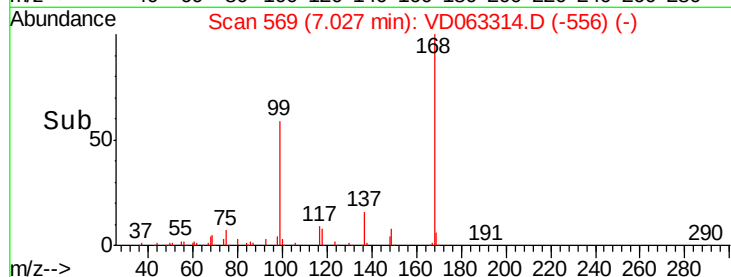
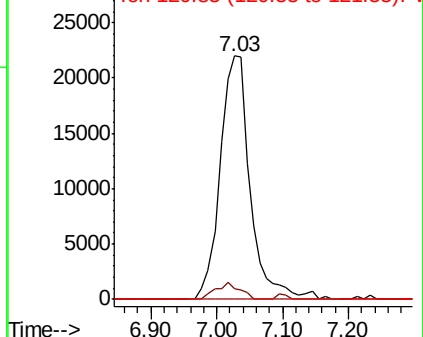
121 0.0 22.1 33.1#



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



#39

Methylcyclohexane

Concen: 3.045 ug/l

RT: 8.85 min Scan# 754

Delta R.T. -0.01 min

Lab File: VD063314.D

Acq: 2 Aug 2019 14:06

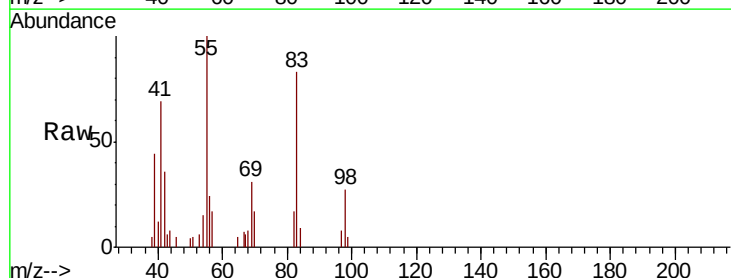
Tgt Ion: 83 Resp: 23771

Ion Ratio Lower Upper

83 100

55 120.2 71.1 106.7#

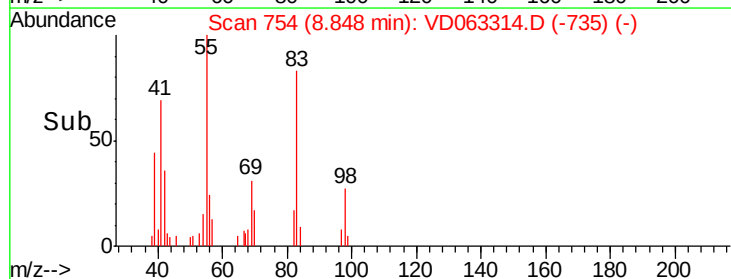
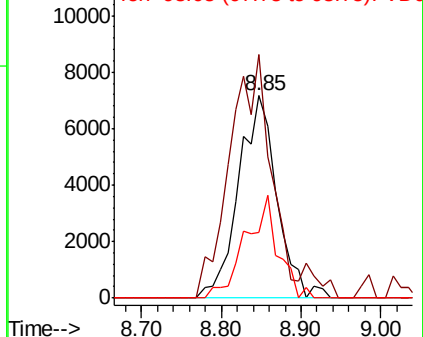
98 32.7 38.5 57.7#

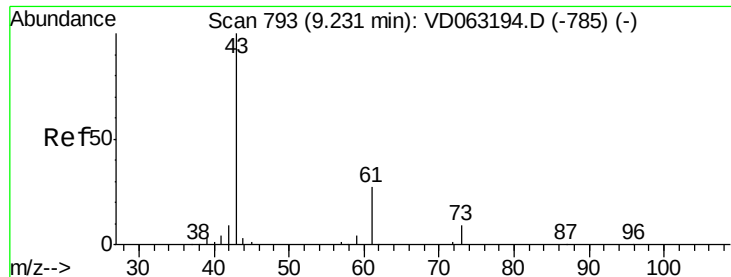


Abundance Ion 83.05 (82.75 to 83.75): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 98.05 (97.75 to 98.75): VDC





#43

Isopropyl Acetate

Concen: 1.368 ug/l

RT: 9.00 min Scan# 769

Delta R.T. -0.24 min

Lab File: VD063314.D

Acq: 2 Aug 2019 14:06

Instrument :

MSVOA_D

ClientSampleId :

T2-2RE

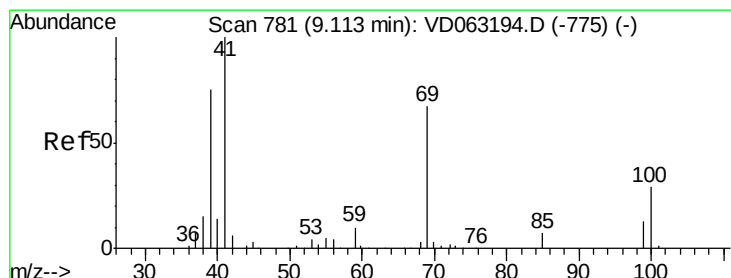
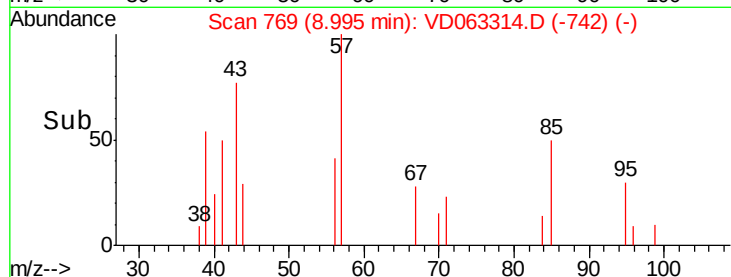
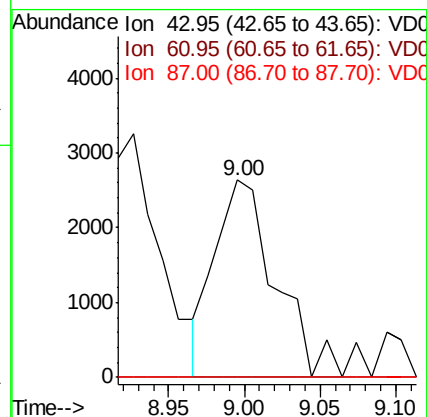
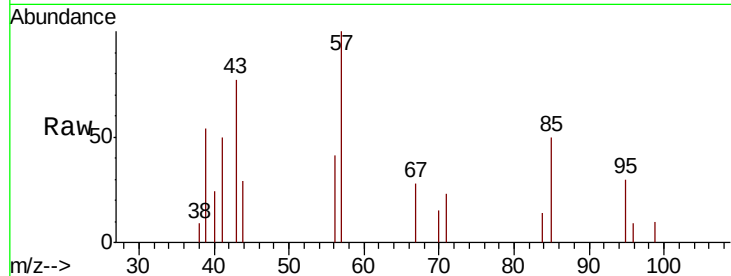
Tgt Ion: 43 Resp: 7354

Ion Ratio Lower Upper

43 100

61 0.0 21.4 32.0#

87 0.0 0.2 0.4#



#48

Methyl methacrylate

Concen: 1.032 ug/l

RT: 9.08 min Scan# 778

Delta R.T. -0.03 min

Lab File: VD063314.D

Acq: 2 Aug 2019 14:06

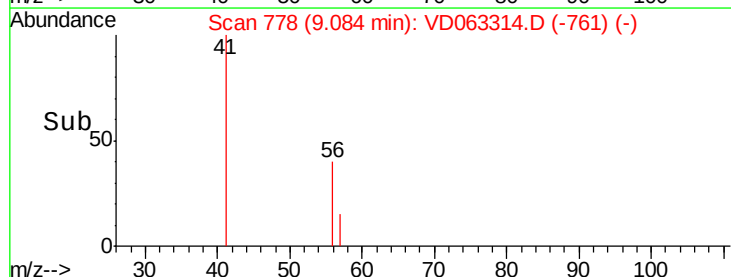
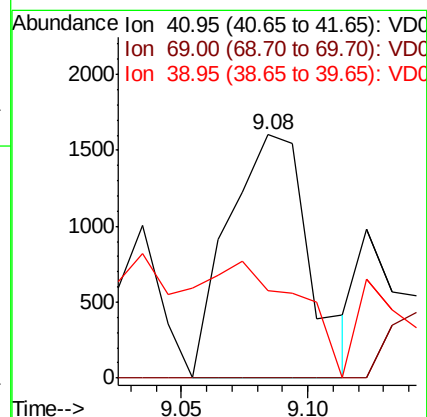
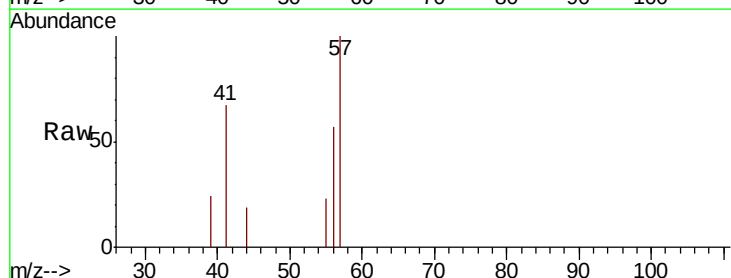
Tgt Ion: 41 Resp: 3600

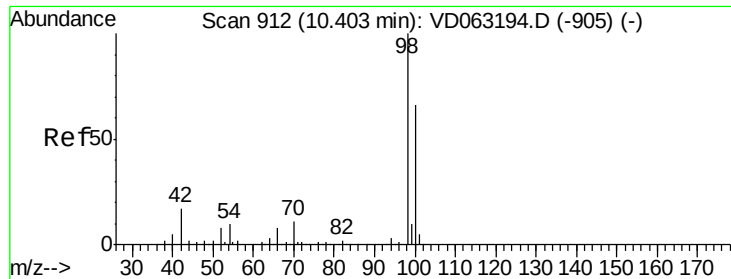
Ion Ratio Lower Upper

41 100

69 0.0 53.4 80.0#

39 36.0 60.3 90.5#





#50

Toluene-d8

Concen: 43.342 ug/l

RT: 10.39 min Scan# 911

Delta R.T. -0.01 min

Lab File: VD063314.D

Acq: 2 Aug 2019 14:06

Instrument :

MSVOA_D

ClientSampleId :

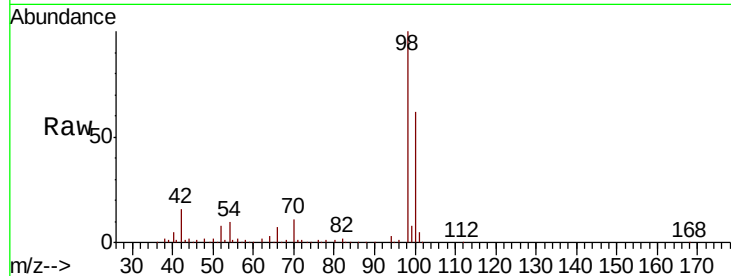
T2-2RE

Tgt Ion: 98 Resp: 850206

Ion Ratio Lower Upper

98 100

100 61.7 53.2 79.8



Abundance Ion 98.05 (97.75 to 98.75): VDC

Ion 100.05 (99.75 to 100.75): VDC

10.39

400000

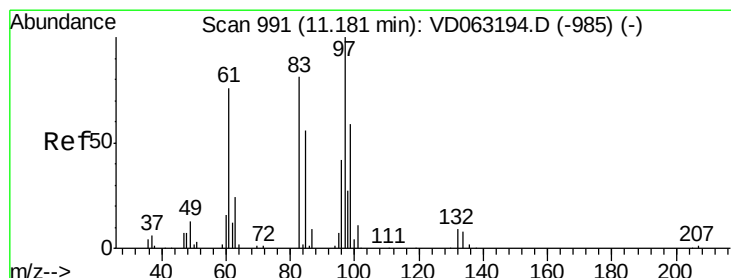
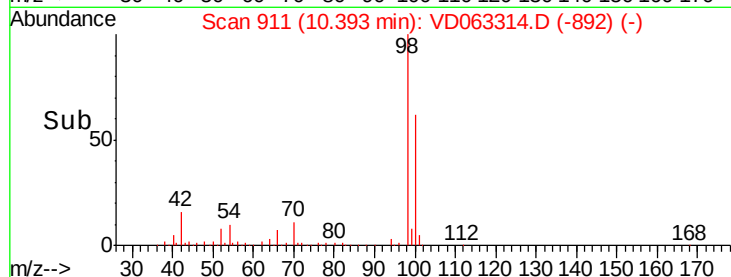
300000

200000

100000

0

Time-->



#55

1,1,2-Trichloroethane

Concen: 3.402 ug/l

RT: 11.08 min Scan# 981

Delta R.T. -0.10 min

Lab File: VD063314.D

Acq: 2 Aug 2019 14:06

Tgt Ion: 97 Resp: 15006

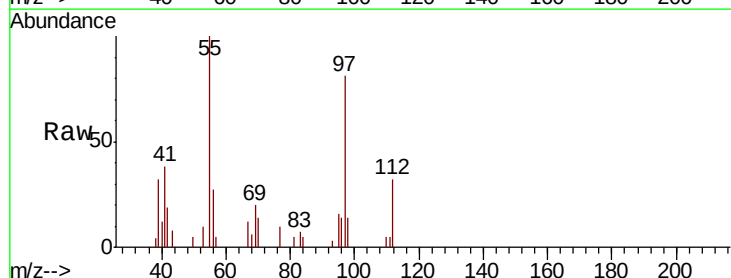
Ion Ratio Lower Upper

97 100

83 8.2 64.8 97.2#

85 0.0 44.9 67.3#

99 0.0 47.2 70.8#



Abundance Ion 96.85 (96.55 to 97.55): VDC

Ion 82.95 (82.65 to 83.65): VDC

Ion 84.95 (84.65 to 85.65): VDC

Ion 98.85 (98.55 to 99.55): VDC

11.08

10000

8000

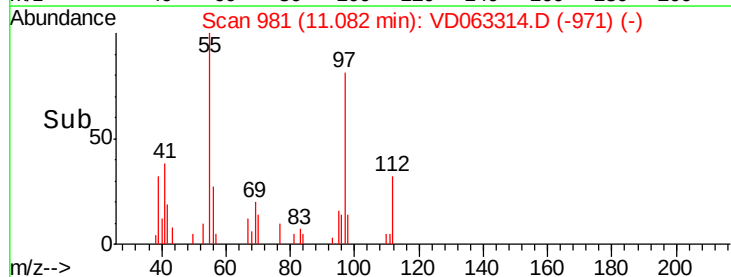
6000

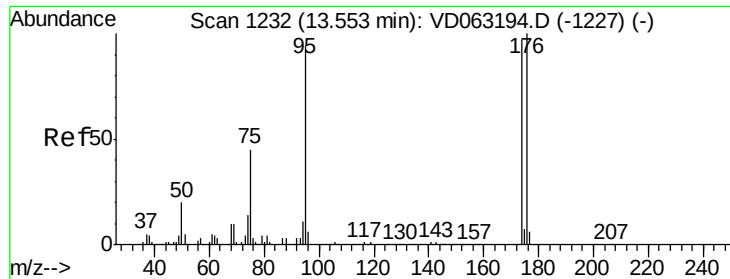
4000

2000

0

Time-->

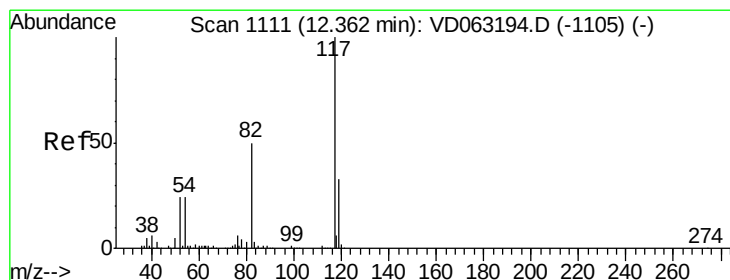
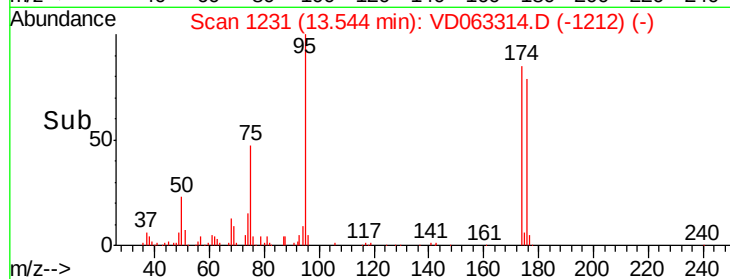
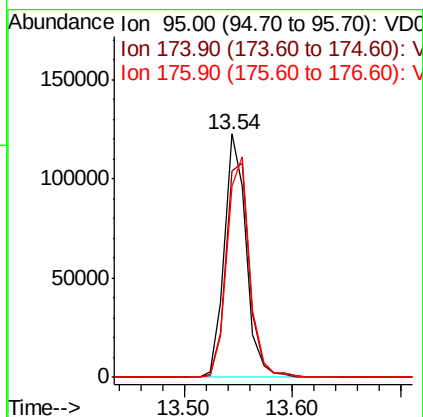
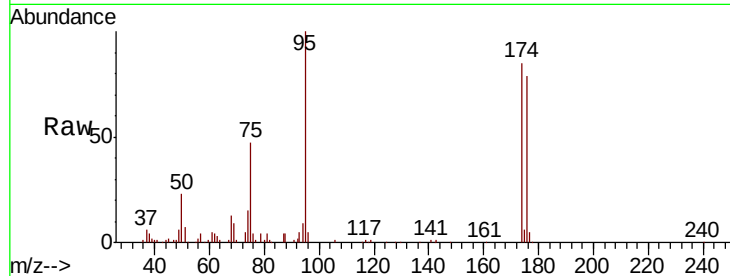




#62
4-Bromofluorobenzene
Concen: 19.307 ug/l
RT: 13.54 min Scan# 1231
Delta R.T. -0.01 min
Lab File: VD063314.D
Acq: 2 Aug 2019 14:06

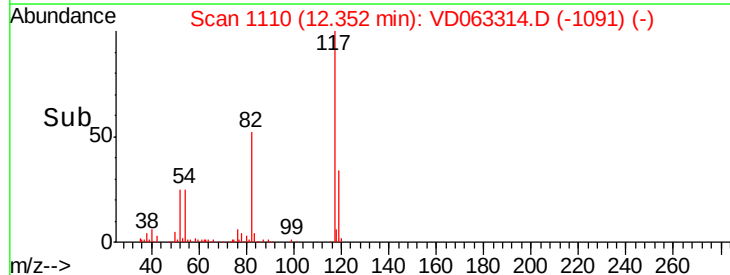
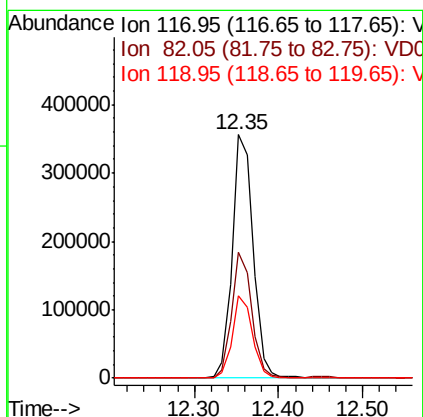
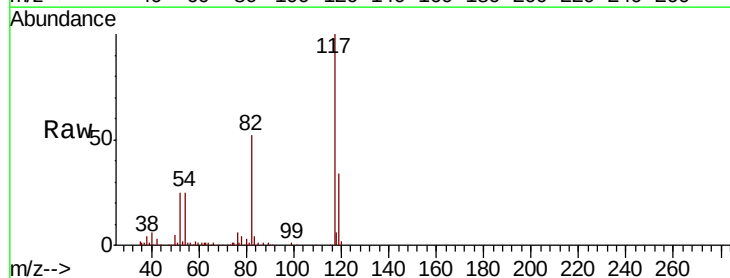
Instrument :
MSVOA_D
ClientSampleId :
T2-2RE

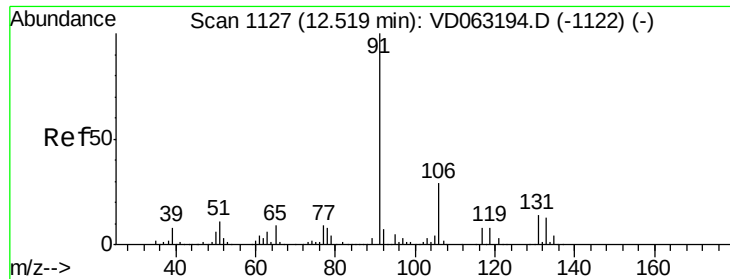
Tgt Ion: 95 Resp: 172586
Ion Ratio Lower Upper
95 100
174 85.0 0.0 205.4
176 78.5 0.0 211.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.35 min Scan# 1110
Delta R.T. -0.01 min
Lab File: VD063314.D
Acq: 2 Aug 2019 14:06

Tgt Ion: 117 Resp: 615022
Ion Ratio Lower Upper
117 100
82 51.6 40.1 60.1
119 33.6 26.5 39.7

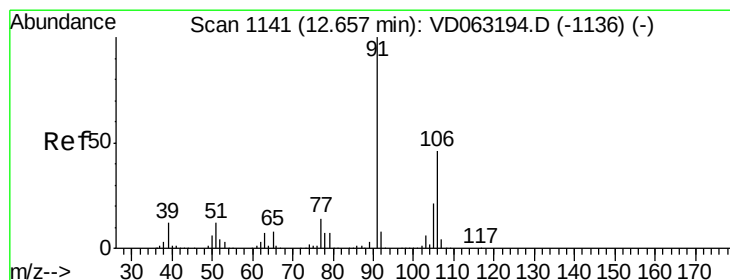
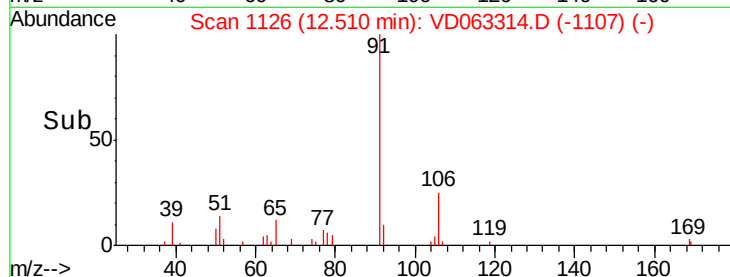
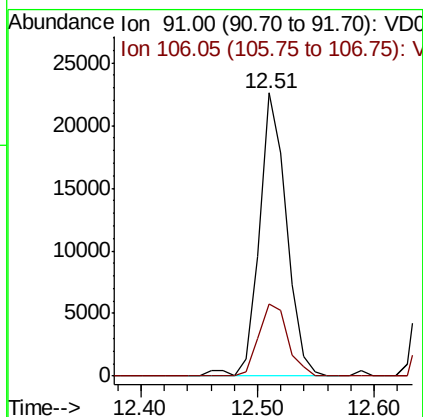
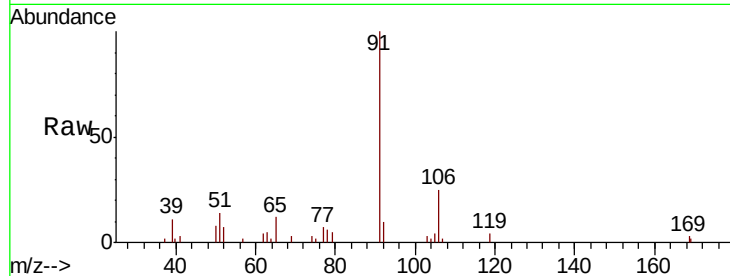




#67
Ethyl Benzene
Concen: 1.807 ug/l
RT: 12.51 min Scan# 1126
Delta R.T. -0.01 min
Lab File: VD063314.D
Acq: 2 Aug 2019 14:06

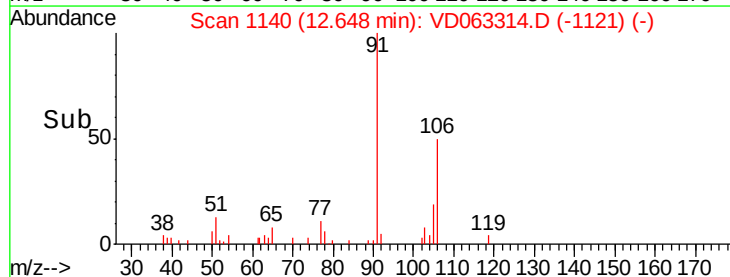
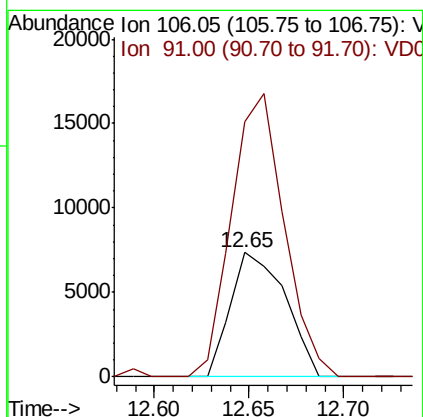
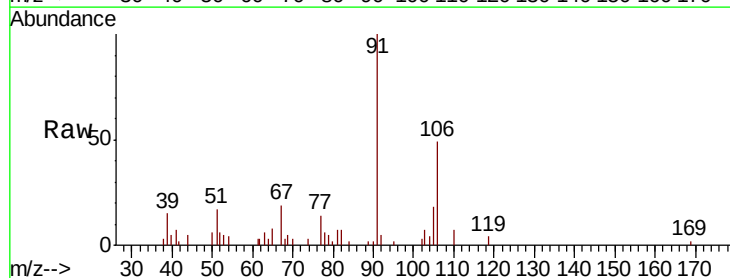
Instrument :
MSVOA_D
ClientSampled :
T2-2RE

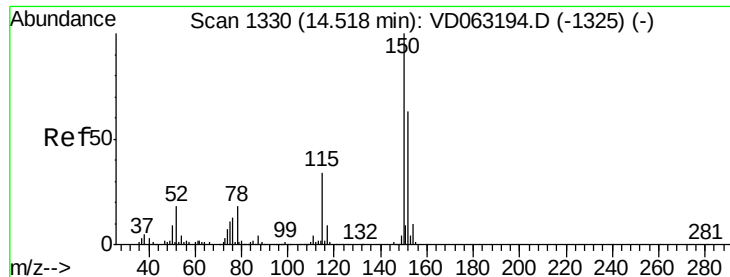
Tgt Ion: 91 Resp: 36320
Ion Ratio Lower Upper
91 100
106 25.5 22.9 34.3



#68
m/p-Xylenes
Concen: 2.002 ug/l
RT: 12.65 min Scan# 1140
Delta R.T. -0.01 min
Lab File: VD063314.D
Acq: 2 Aug 2019 14:06

Tgt Ion: 106 Resp: 14751
Ion Ratio Lower Upper
106 100
91 205.5 172.6 259.0



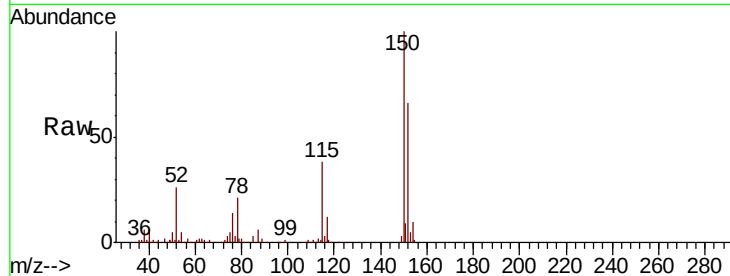


#72

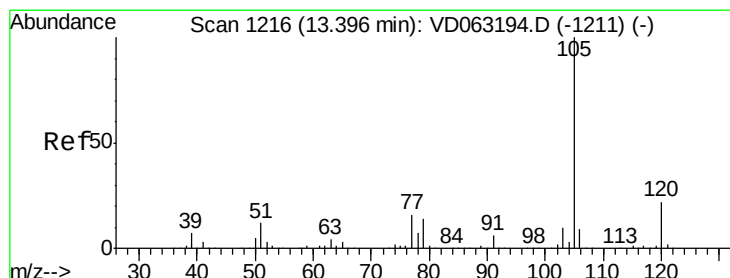
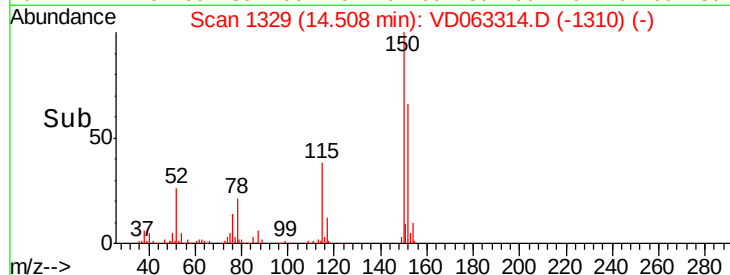
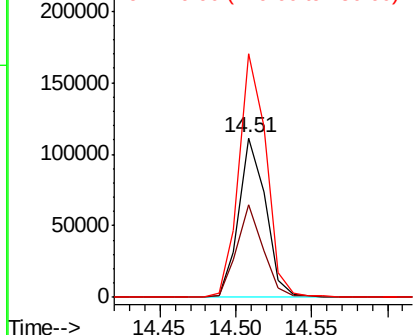
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.51 min Scan# 1329
Delta R.T. -0.01 min
Lab File: VD063314.D
Acq: 2 Aug 2019 14:06

Instrument :
MSVOA_D
ClientSampleId :
T2-2RE

Tgt Ion:152 Resp: 137226
Ion Ratio Lower Upper
152 100
115 58.2 27.5 82.4
150 152.5 0.0 320.6



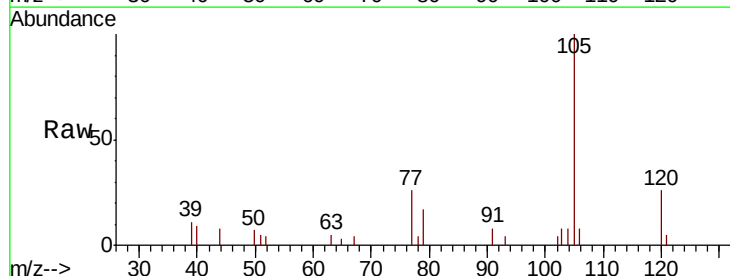
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 115.00 (114.70 to 115.70): V
Ion 149.90 (149.60 to 150.60): V



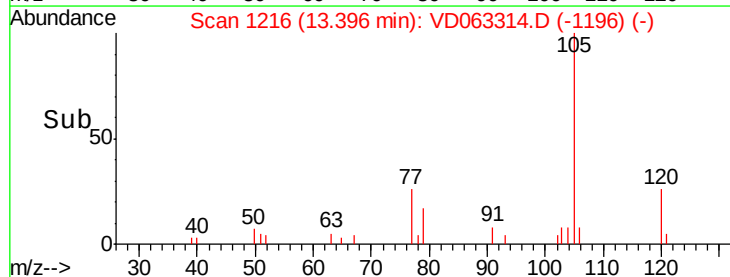
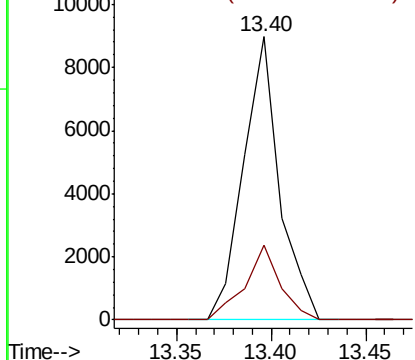
#73

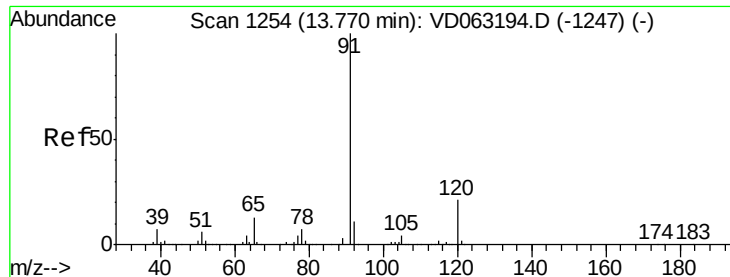
Isopropylbenzene
Concen: 1.374 ug/l
RT: 13.40 min Scan# 1216
Delta R.T. 0.00 min
Lab File: VD063314.D
Acq: 2 Aug 2019 14:06

Tgt Ion:105 Resp: 11833
Ion Ratio Lower Upper
105 100
120 26.2 11.1 33.3



Abundance Ion 105.05 (104.75 to 105.75): V
Ion 120.05 (119.75 to 120.75): V





#78

n-propylbenzene

Concen: 1.043 ug/l

RT: 13.77 min Scan# 1254

Delta R.T. 0.00 min

Lab File: VD063314.D

Acq: 2 Aug 2019 14:06

Instrument :

MSVOA_D

ClientSampled :

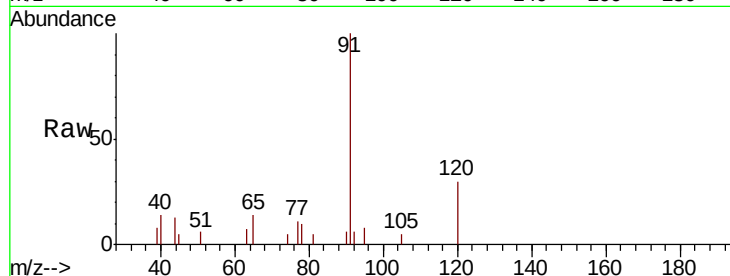
T2-2RE

Tgt Ion: 91 Resp: 10685

Ion Ratio Lower Upper

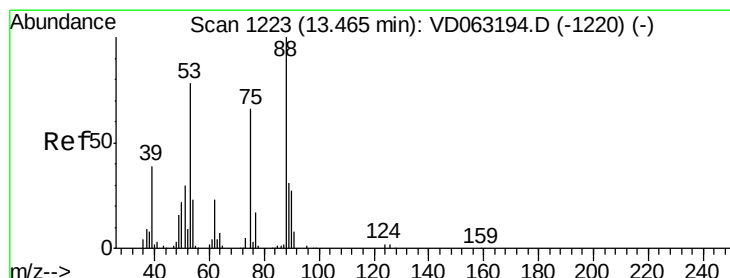
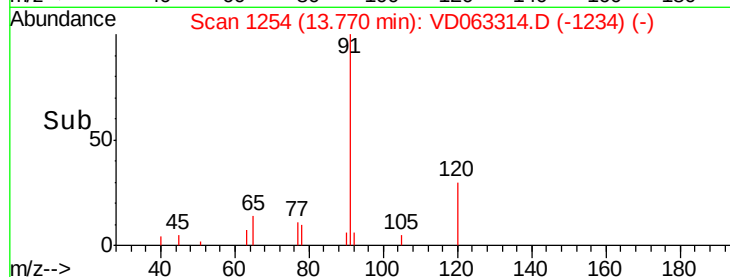
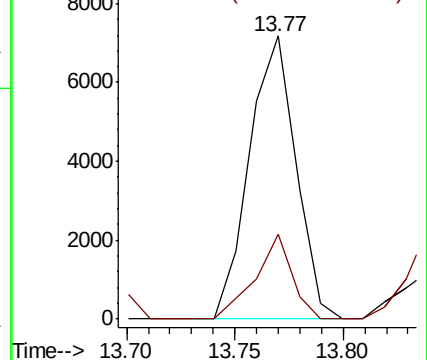
91 100

120 30.2 10.7 32.1



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 120.05 (119.75 to 120.75): VDC



#81

trans-1,4-Dichloro-2-butene

Concen: 165.267 ug/l

RT: 13.54 min Scan# 1231

Delta R.T. 0.08 min

Lab File: VD063314.D

Acq: 2 Aug 2019 14:06

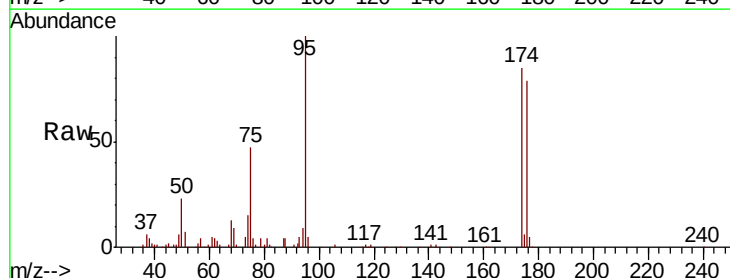
Tgt Ion: 75 Resp: 75641

Ion Ratio Lower Upper

75 100

53 0.0 94.9 142.3#

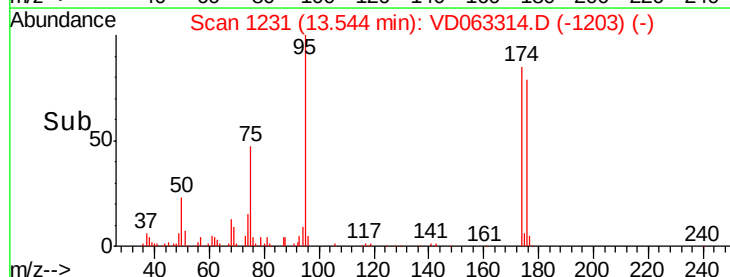
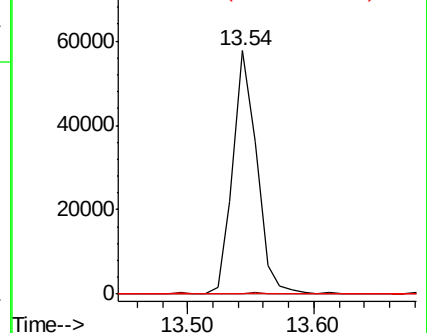
89 0.0 37.4 56.0#

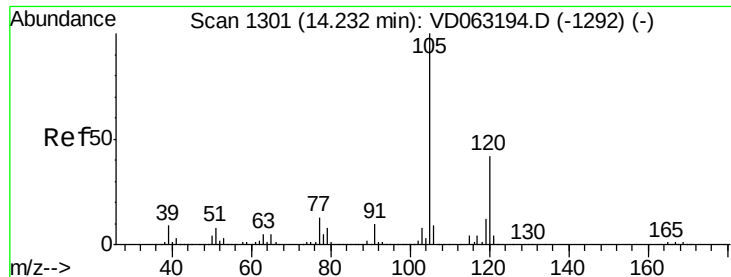


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC





#84

1,2,4-Trimethylbenzene

Concen: 2.148 ug/l

RT: 14.23 min Scan# 1301

Delta R.T. 0.00 min

Lab File: VD063314.D

Acq: 2 Aug 2019 14:06

Instrument :

MSVOA_D

ClientSampleId :

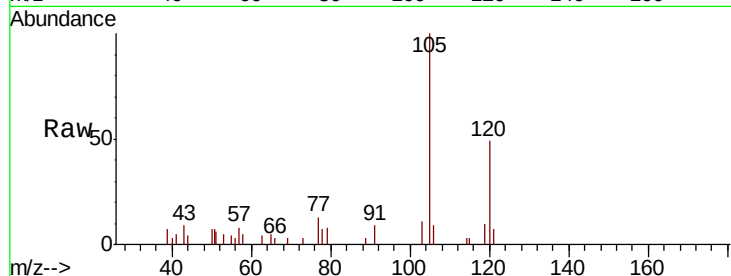
T2-2RE

Tgt Ion:105 Resp: 16506

Ion Ratio Lower Upper

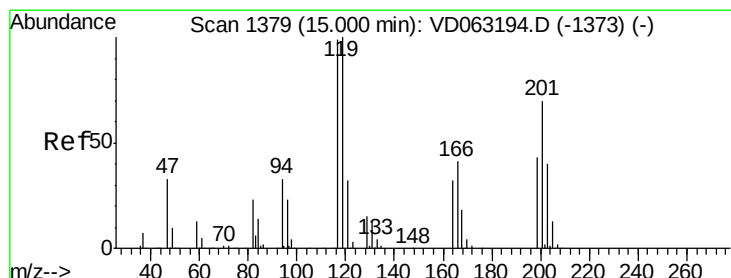
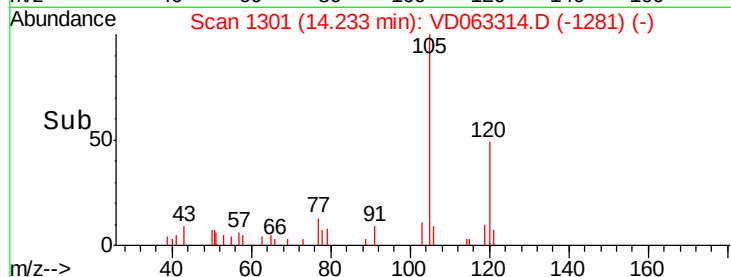
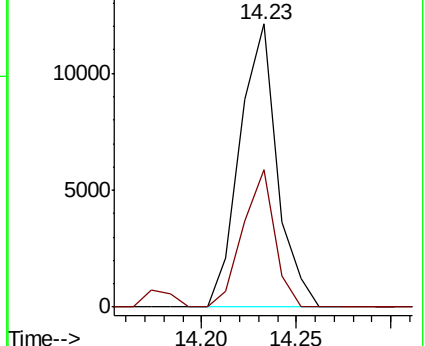
105 100

120 48.8 20.9 62.7



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V



#90

Hexachloroethane

Concen: 4.426 ug/l

RT: 15.13 min Scan# 1392

Delta R.T. 0.13 min

Lab File: VD063314.D

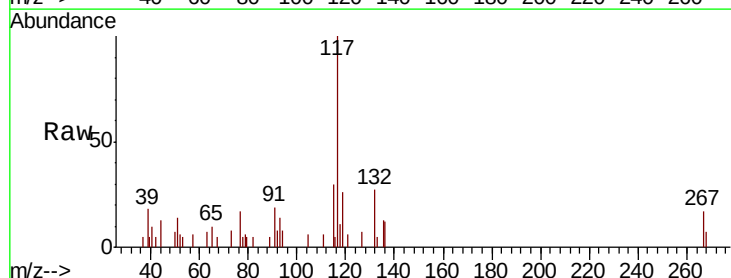
Acq: 2 Aug 2019 14:06

Tgt Ion:117 Resp: 9836

Ion Ratio Lower Upper

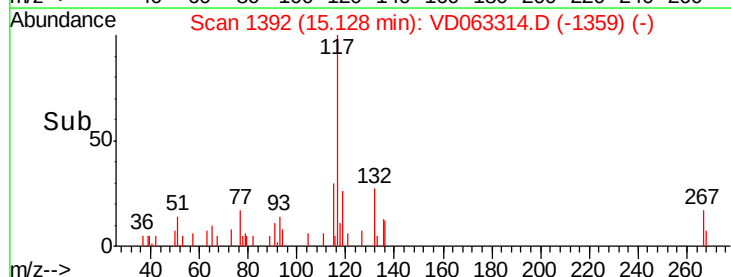
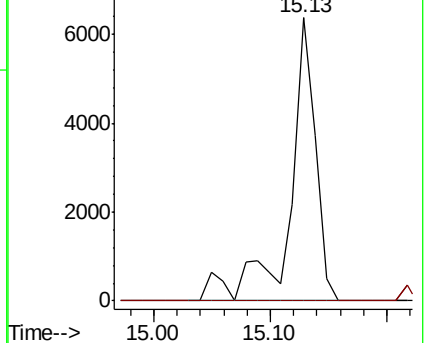
117 100

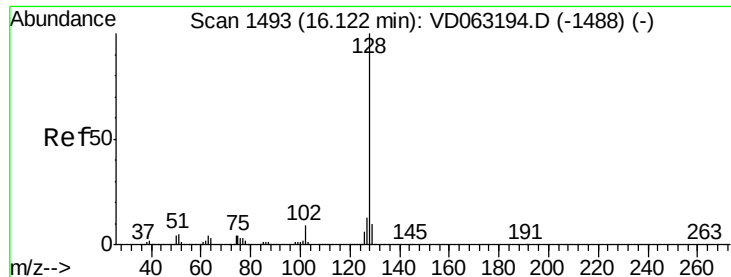
201 0.0 35.2 105.6#



Abundance Ion 116.85 (116.55 to 117.55): V

Ion 200.75 (200.45 to 201.45): V

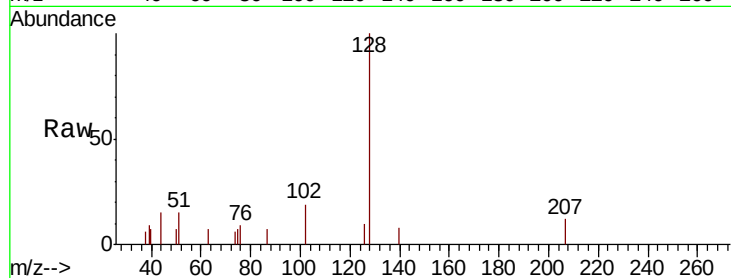




#95
Naphthalene
Concen: 1.498 ug/l
RT: 16.11 min Scan# 1492
Delta R.T. -0.01 min
Lab File: VD063314.D
Acq: 2 Aug 2019 14:06

Instrument :
MSVOA_D
ClientSampleId :
T2-2RE

Tgt Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.2	15.4#
129	0.0	7.8	11.8#



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

