

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD082219\
 Data File : VD063749.D
 Acq On : 22 Aug 2019 22:28
 Operator : JC/SY
 Sample : K4491-03
 Misc : 5.20g/5ml/MSVOA_D/SOIL
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 TS-1VN

Quant Time: Aug 23 07:02:18 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D080919S.M
 Quant Title : SW846 8260
 QLast Update : Sat Aug 10 06:42:47 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.05	168	932323	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	8.22	114	1264225	50.00	ug/l	-0.02
63) Chlorobenzene-d5	12.36	117	927436	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	14.52	152	328579	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	670599	67.29	ug/l	-0.02
Spiked Amount			Recovery	=	134.58%	
35) Dibromofluoromethane	6.92	113	776942	72.97	ug/l	-0.02
Spiked Amount			Recovery	=	145.94%	
50) Toluene-d8	10.41	98	1556429	66.49	ug/l	0.00
Spiked Amount			Recovery	=	132.98%	
62) 4-Bromofluorobenzene	13.55	95	480670	45.30	ug/l	0.00
Spiked Amount			Recovery	=	90.60%	

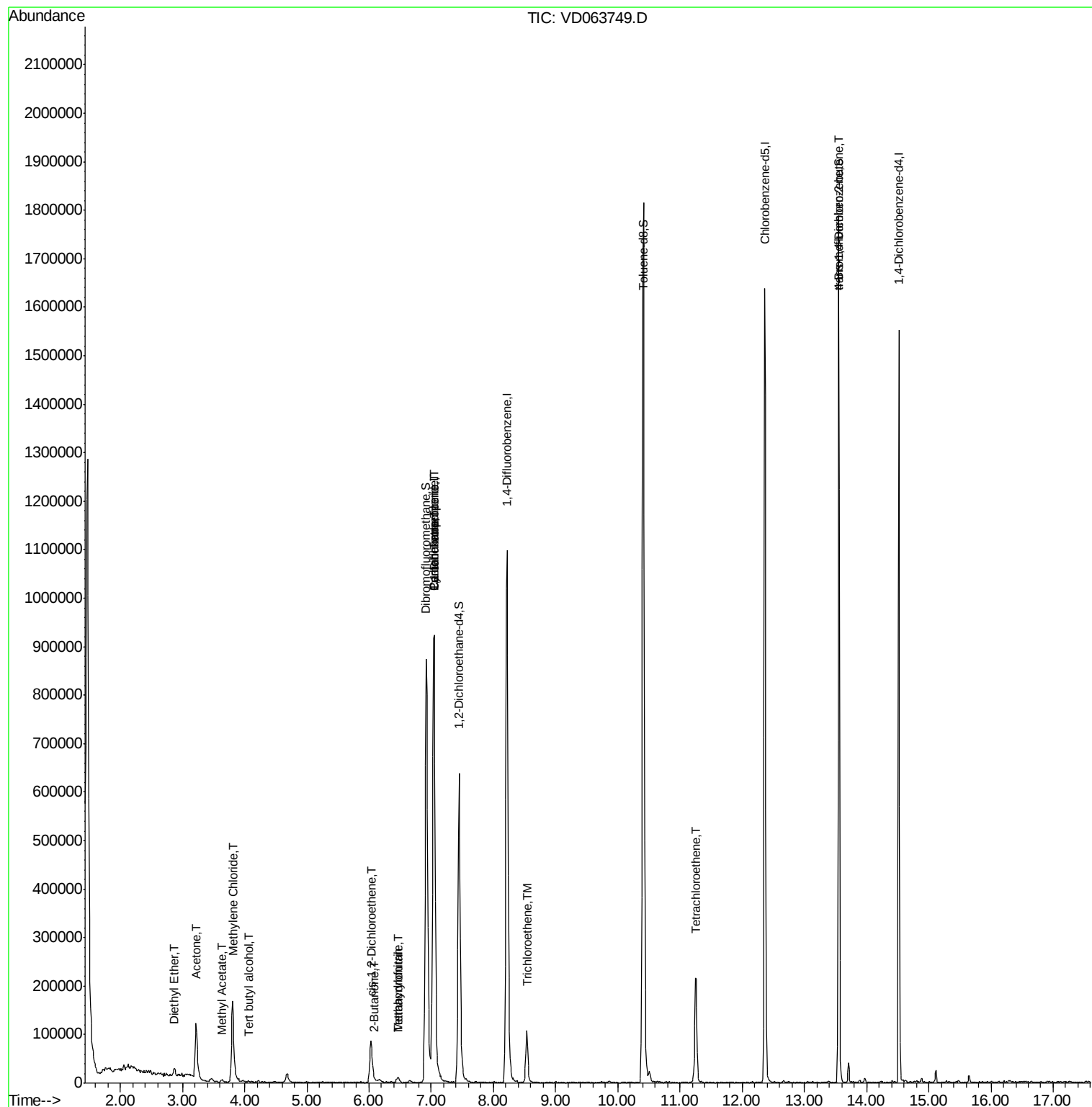
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	2.86	74	4682	1.932	ug/l	73
11) Tert butyl alcohol	4.07	59	4567	10.527	ug/l #	71
16) Acetone	3.22	43	219329	108.265	ug/l	97
18) Methyl Acetate	3.64	43	6256	1.630	ug/l	94
20) Methylene Chloride	3.81	84	106296	12.134	ug/l	92
25) 2-Butanone	6.09	43	7169	3.583	ug/l #	58
27) cis-1,2-Dichloroethene	6.03	96	52939	6.103	ug/l	93
29) Tetrahydrofuran	6.47	42	8482	9.098	ug/l #	83
31) Cyclohexane	7.04	56	19592	2.177	ug/l #	8
36) 1,1-Dichloropropene	7.04	75	67848	6.071	ug/l #	55
38) Carbon Tetrachloride	7.04	117	91119	5.410	ug/l #	17
41) Methacrylonitrile	6.47	41	6556	1.112	ug/l #	80
44) Trichloroethene	8.54	130	46546	4.951	ug/l	92
64) Tetrachloroethene	11.26	164	64178	8.964	ug/l	95
81) trans-1,4-Dichloro-2-buten	13.55	75	216758	213.861	ug/l #	1

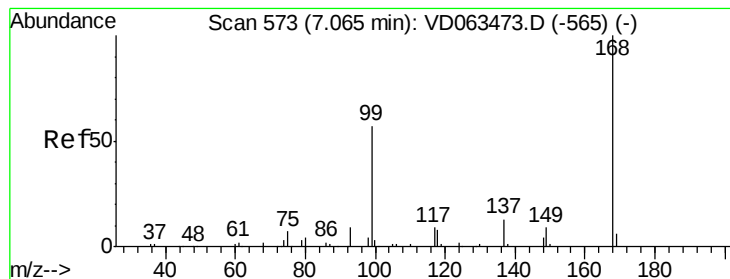
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_D\DATA\VD082219\
Data File : VD063749.D
Acq On : 22 Aug 2019 22:28
Operator : JC/SY
Sample : K4491-03
Misc : 5.20g/5ml/MSVOA_D/SOIL
ALS Vial : 32 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
TS-1VN

Quant Time: Aug 23 07:02:18 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D080919S.M
Quant Title : SW846 8260
QLast Update : Sat Aug 10 06:42:47 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 571

Delta R.T. -0.02 min

Lab File: VD063749.D

Acq: 22 Aug 2019 22:28

Instrument :

MSVOA_D

ClientSampleId :

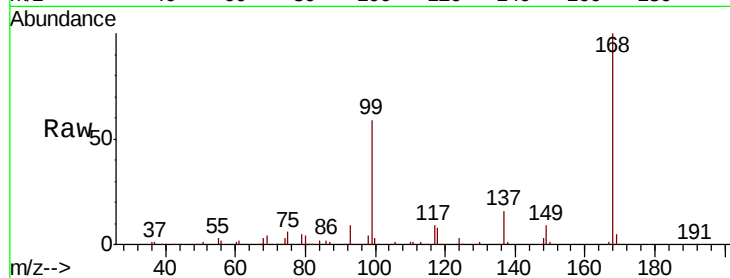
TS-1VN

Tgt Ion:168 Resp: 932323

Ion Ratio Lower Upper

168 100

99 58.9 46.7 70.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.05

300000

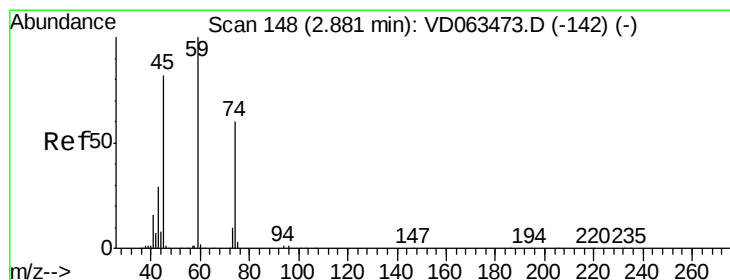
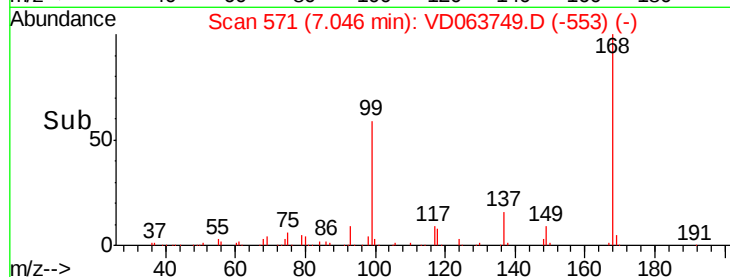
200000

100000

0

Time-->

6.90 7.00 7.10 7.20 7.30



#8

Diethyl Ether

Concen: 1.932 ug/l

RT: 2.86 min Scan# 146

Delta R.T. -0.02 min

Lab File: VD063749.D

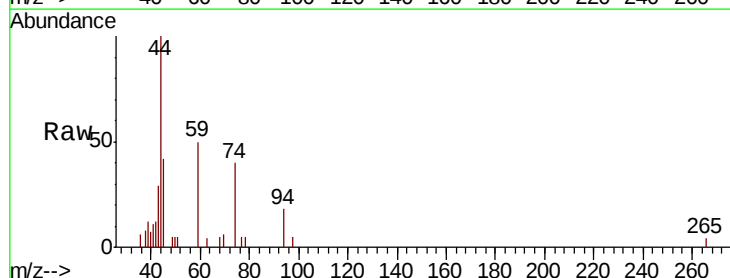
Acq: 22 Aug 2019 22:28

Tgt Ion: 74 Resp: 4682

Ion Ratio Lower Upper

74 100

45 105.0 68.5 205.5



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.05 (44.75 to 45.75): VDC

2.86

4000

3000

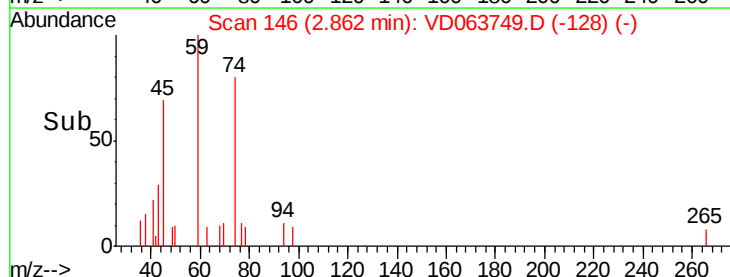
2000

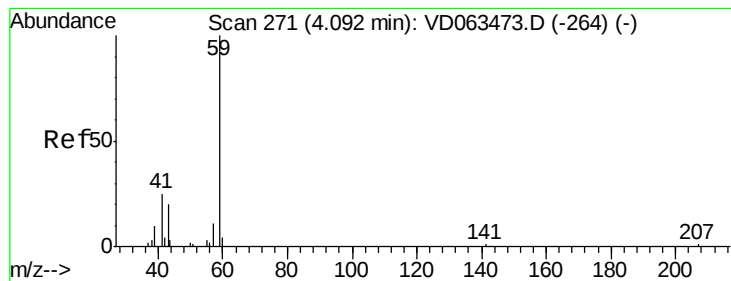
1000

0

Time-->

2.80 2.85 2.90





#11

Tert butyl alcohol

Concen: 10.527 ug/l

RT: 4.07 min Scan# 269

Delta R.T. -0.02 min

Lab File: VD063749.D

Acq: 22 Aug 2019 22:28

Instrument :

MSVOA_D

ClientSampled :

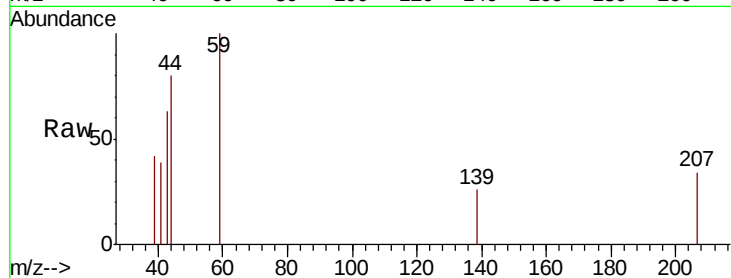
TS-1VN

Tgt Ion: 59 Resp: 4567

Ion Ratio Lower Upper

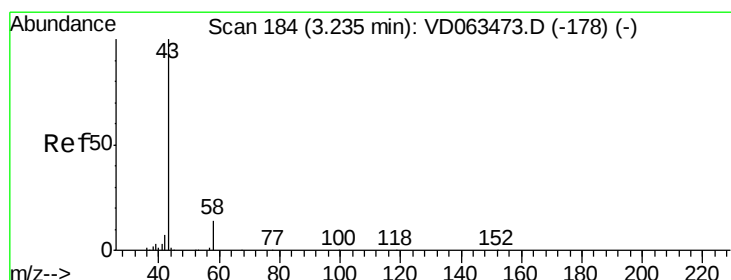
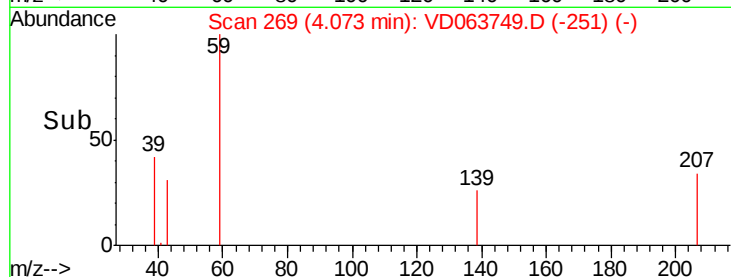
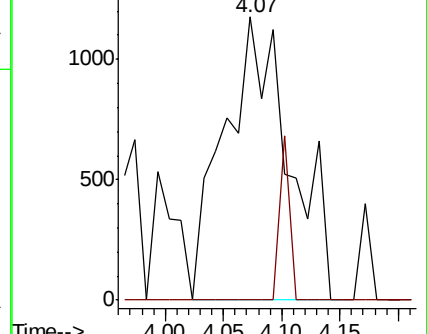
59 100

57 0.0 8.7 13.1#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC



#16

Acetone

Concen: 108.265 ug/l

RT: 3.22 min Scan# 182

Delta R.T. -0.02 min

Lab File: VD063749.D

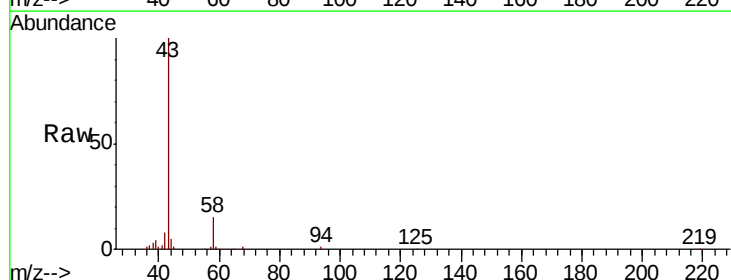
Acq: 22 Aug 2019 22:28

Tgt Ion: 43 Resp: 219329

Ion Ratio Lower Upper

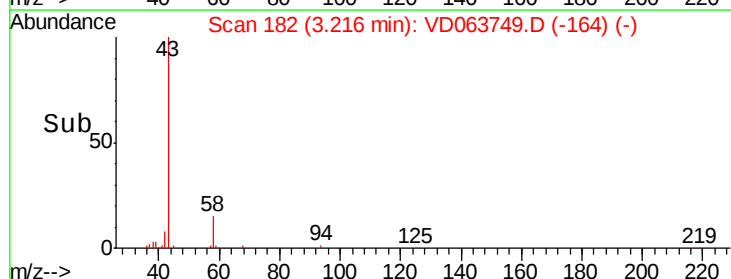
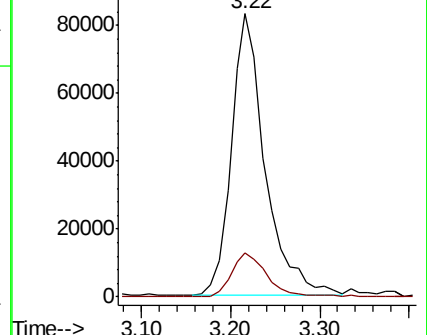
43 100

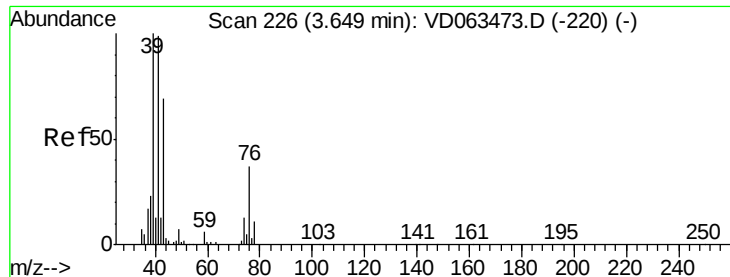
58 15.4 11.4 17.2



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC





#18

Methyl Acetate

Concen: 1.630 ug/l

RT: 3.64 min Scan# 225

Delta R.T. -0.01 min

Lab File: VD063749.D

Acq: 22 Aug 2019 22:28

Instrument :

MSVOA_D

ClientSampleId :

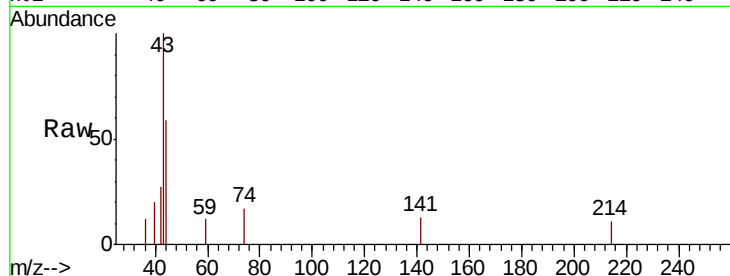
TS-1VN

Tgt Ion: 43 Resp: 6256

Ion Ratio Lower Upper

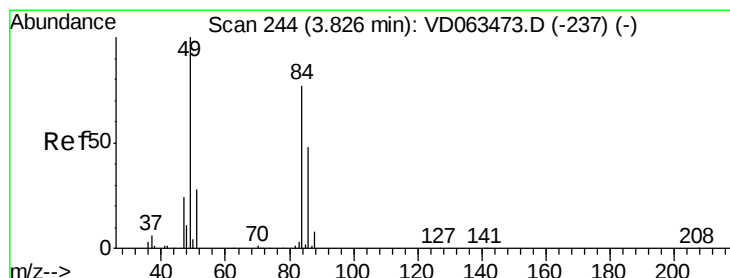
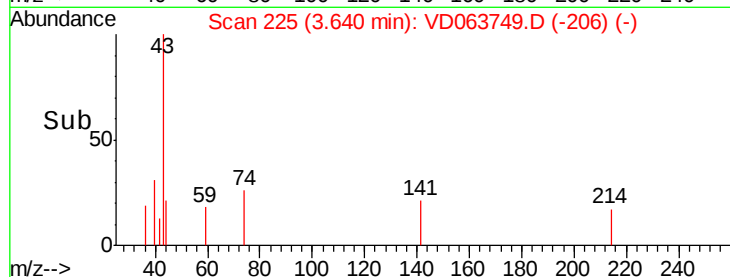
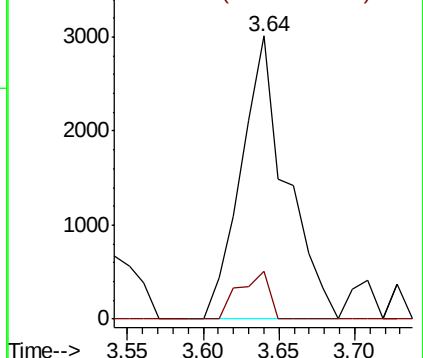
43 100

74 16.8 15.4 23.2



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC



#20

Methylene Chloride

Concen: 12.134 ug/l

RT: 3.81 min Scan# 242

Delta R.T. -0.02 min

Lab File: VD063749.D

Acq: 22 Aug 2019 22:28

Tgt Ion: 84 Resp: 106296

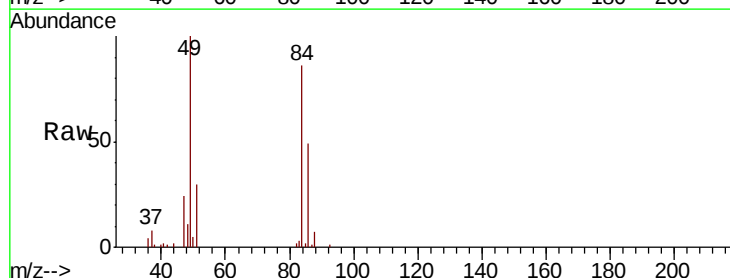
Ion Ratio Lower Upper

84 100

49 116.3 103.4 155.2

51 34.8 28.5 42.7

86 57.5 49.4 74.2

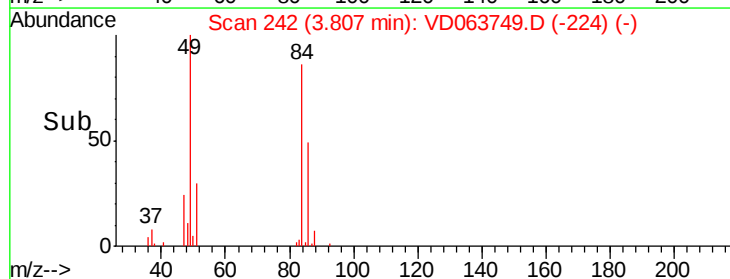
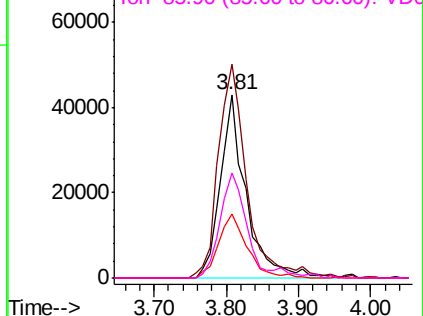


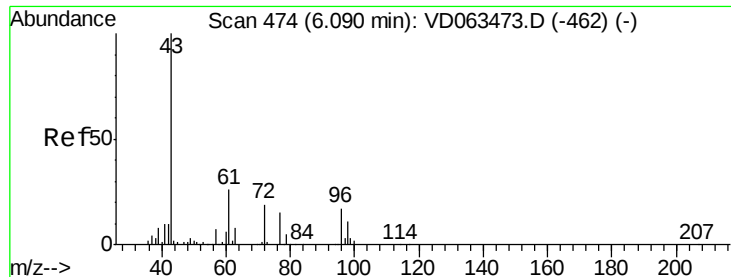
Abundance Ion 83.95 (83.65 to 84.65): VDC

Ion 48.90 (48.60 to 49.60): VDC

Ion 50.90 (50.60 to 51.60): VDC

Ion 85.90 (85.60 to 86.60): VDC

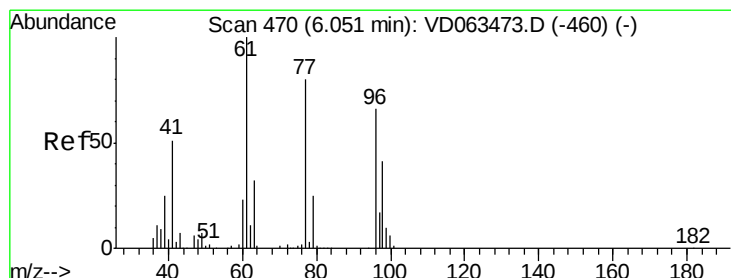
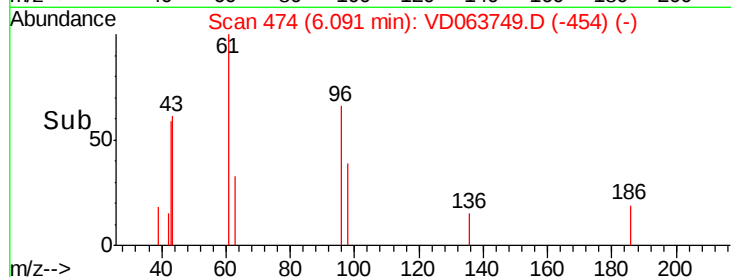
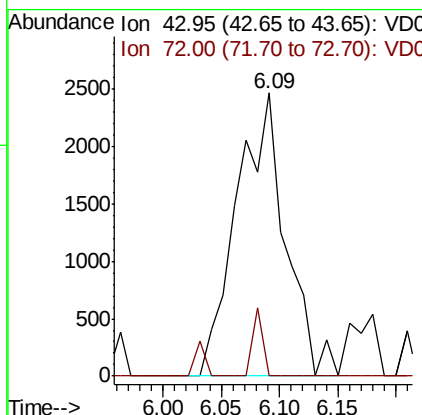
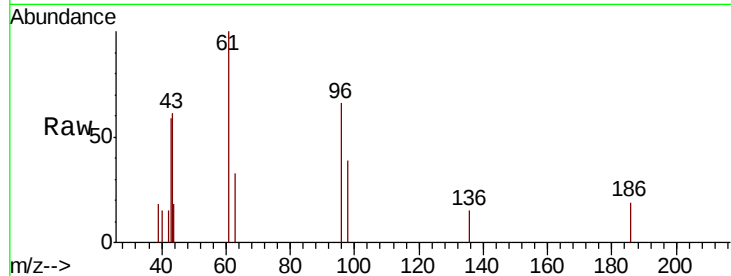




#25
2-Butanone
Concen: 3.583 ug/l
RT: 6.09 min Scan# 474
Delta R.T. 0.00 min
Lab File: VD063749.D
Acq: 22 Aug 2019 22:28

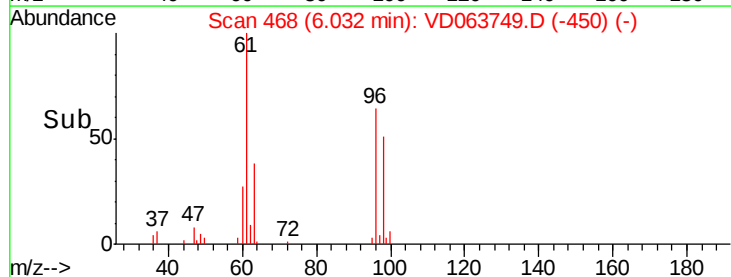
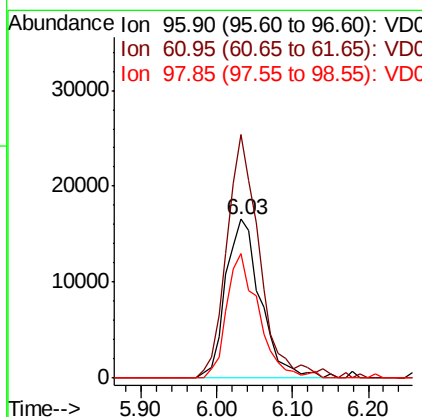
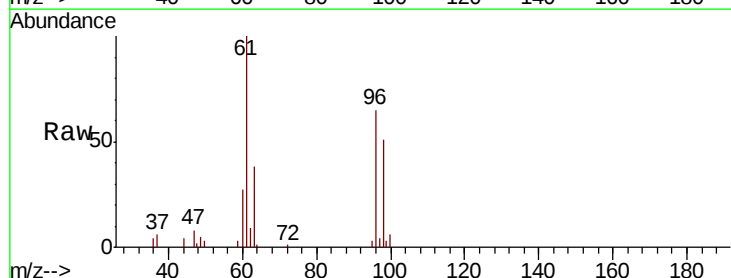
Instrument :
MSVOA_D
ClientSampleId :
TS-1VN

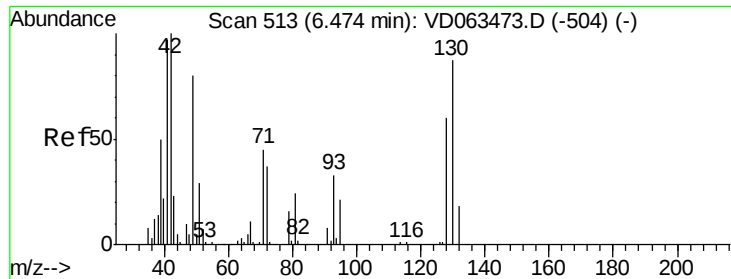
Tgt Ion: 43 Resp: 7169
Ion Ratio Lower Upper
43 100
72 0.0 15.1 22.7#



#27
cis-1,2-Dichloroethene
Concen: 6.103 ug/l
RT: 6.03 min Scan# 468
Delta R.T. -0.02 min
Lab File: VD063749.D
Acq: 22 Aug 2019 22:28

Tgt Ion: 96 Resp: 52939
Ion Ratio Lower Upper
96 100
61 153.1 0.0 304.0
98 78.2 0.0 124.8

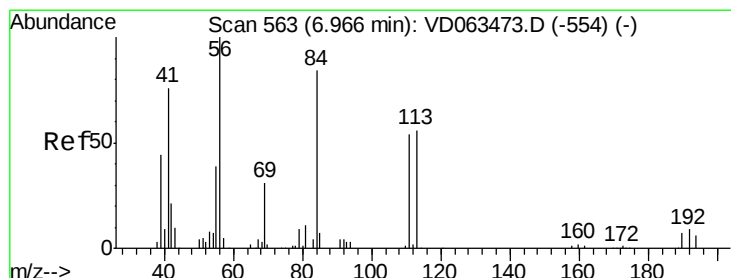
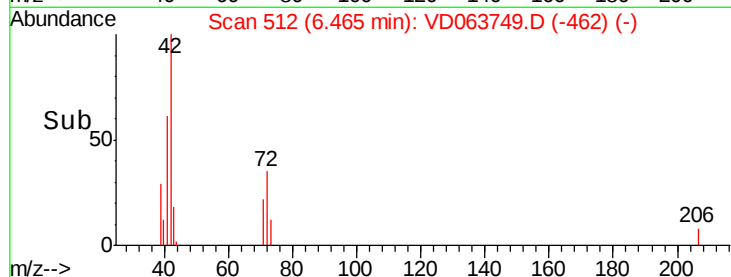
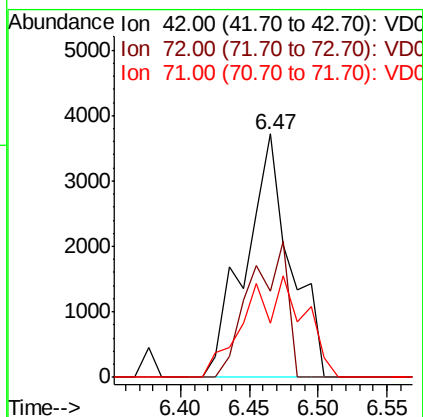
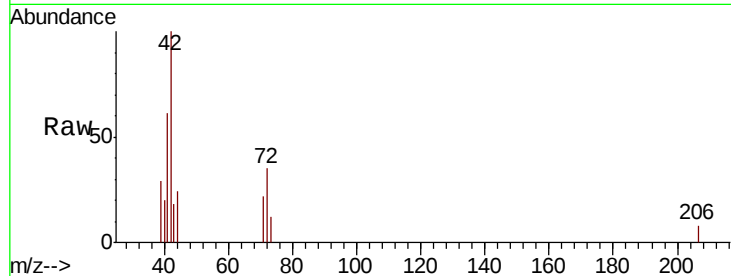




#29
Tetrahydrofuran
Concen: 9.098 ug/l
RT: 6.47 min Scan# 512
Delta R.T. -0.01 min
Lab File: VD063749.D
Acq: 22 Aug 2019 22:28

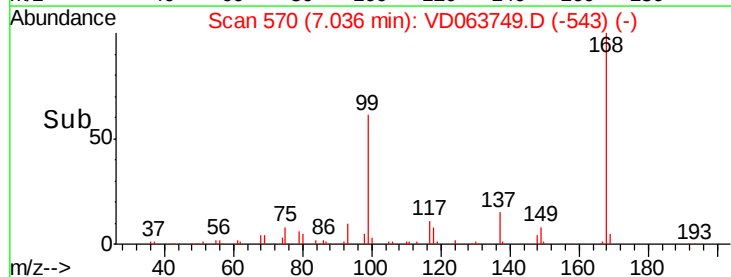
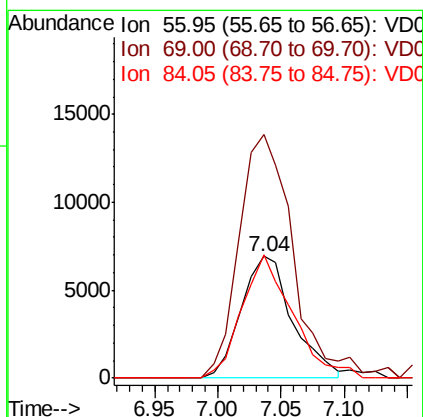
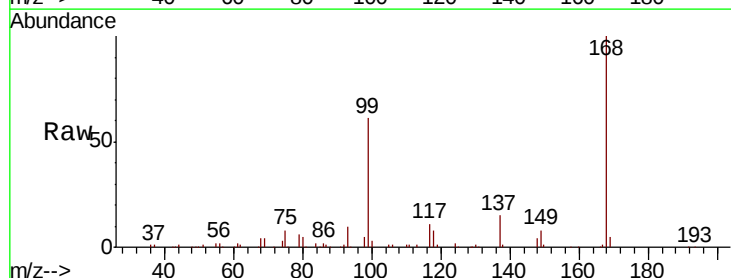
Instrument :
MSVOA_D
ClientSampleID :
TS-1VN

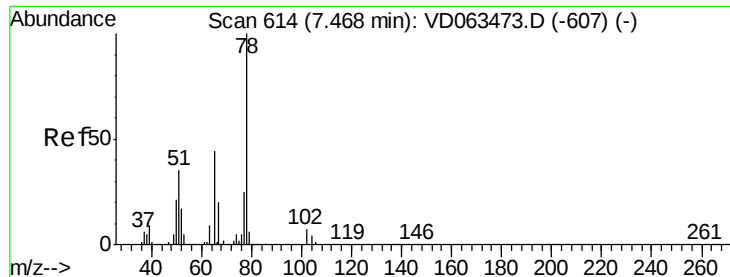
Tgt Ion: 42 Resp: 8482
Ion Ratio Lower Upper
42 100
72 46.0 31.5 47.3
71 27.3 33.8 50.8#



#31
Cyclohexane
Concen: 2.177 ug/l
RT: 7.04 min Scan# 570
Delta R.T. 0.07 min
Lab File: VD063749.D
Acq: 22 Aug 2019 22:28

Tgt Ion: 56 Resp: 19592
Ion Ratio Lower Upper
56 100
69 200.1 25.0 37.6#
84 100.9 69.7 104.5





#33

1,2-Dichloroethane-d4

Concen: 67.290 ug/l

RT: 7.45 min Scan# 612

Delta R.T. -0.02 min

Lab File: VD063749.D

Acq: 22 Aug 2019 22:28

Instrument :

MSVOA_D

ClientSampleId :

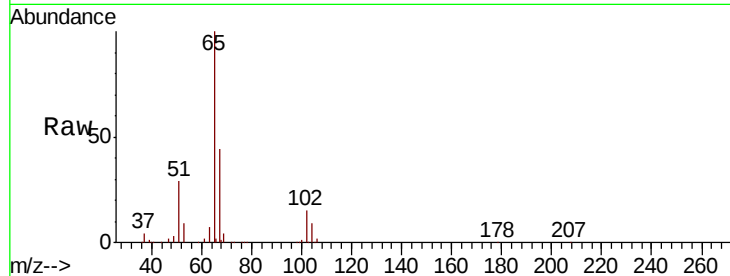
TS-1VN

Tgt Ion: 65 Resp: 670599

Ion Ratio Lower Upper

65 100

67 44.1 0.0 89.2



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

7.45

250000

200000

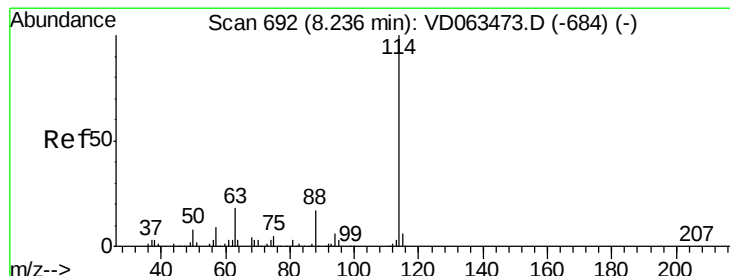
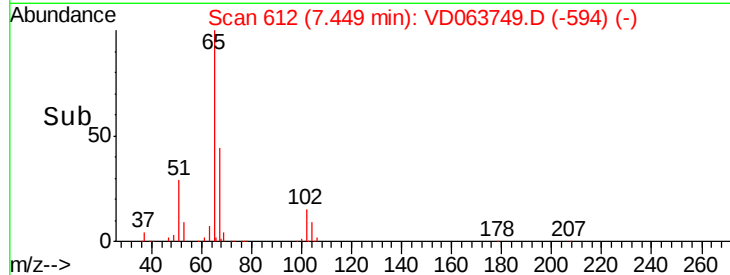
150000

100000

50000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.22 min Scan# 690

Delta R.T. -0.02 min

Lab File: VD063749.D

Acq: 22 Aug 2019 22:28

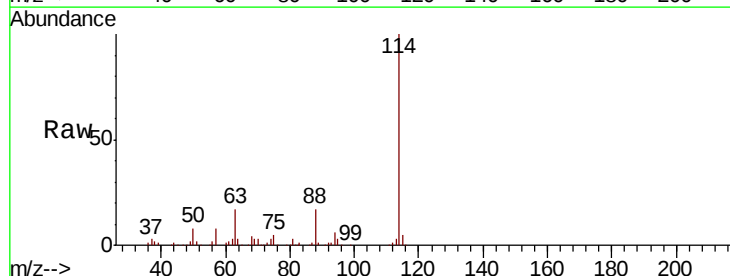
Tgt Ion: 114 Resp: 1264225

Ion Ratio Lower Upper

114 100

63 17.3 0.0 36.2

88 17.0 0.0 35.0



Abundance Ion 114.00 (113.70 to 114.70): VDC

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC

8.22

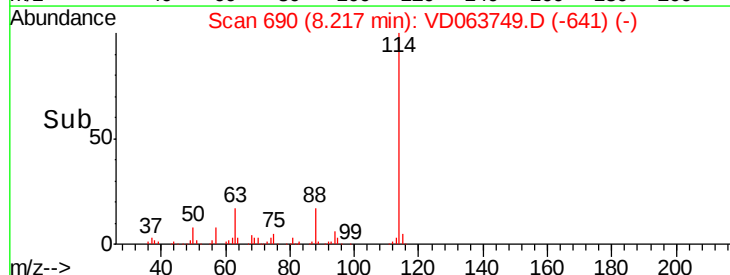
600000

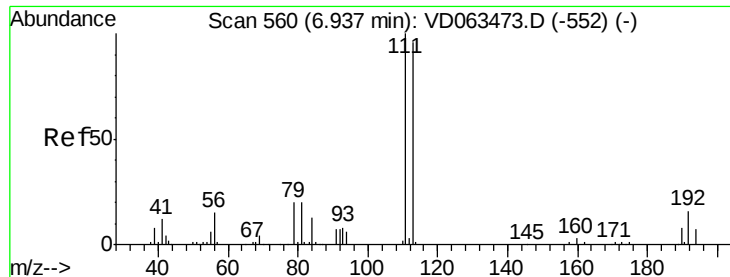
400000

200000

0

Time-->





#35

Dibromofluoromethane

Concen: 72.970 ug/l

RT: 6.92 min Scan# 558

Delta R.T. -0.02 min

Lab File: VD063749.D

Acq: 22 Aug 2019 22:28

Instrument :

MSVOA_D

ClientSampleId :

TS-1VN

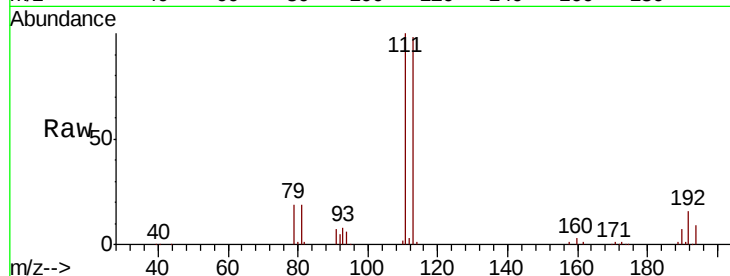
Tgt Ion:113 Resp: 776942

Ion Ratio Lower Upper

113 100

111 102.0 83.1 124.7

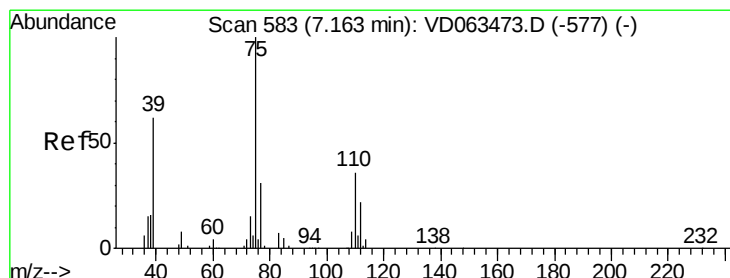
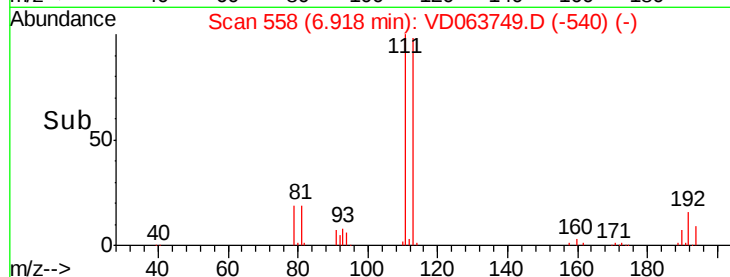
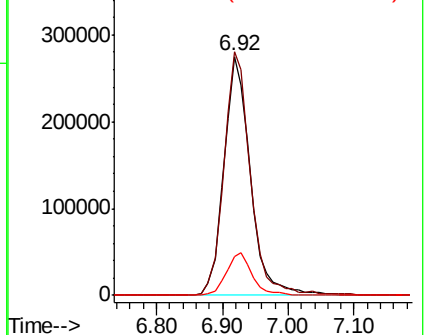
192 16.0 13.1 19.7



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: 6.071 ug/l

RT: 7.04 min Scan# 570

Delta R.T. -0.13 min

Lab File: VD063749.D

Acq: 22 Aug 2019 22:28

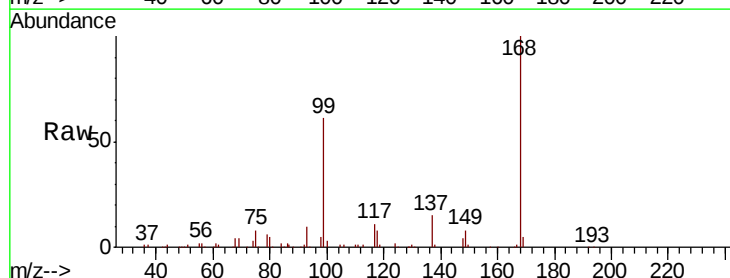
Tgt Ion: 75 Resp: 67848

Ion Ratio Lower Upper

75 100

110 14.8 17.6 52.8#

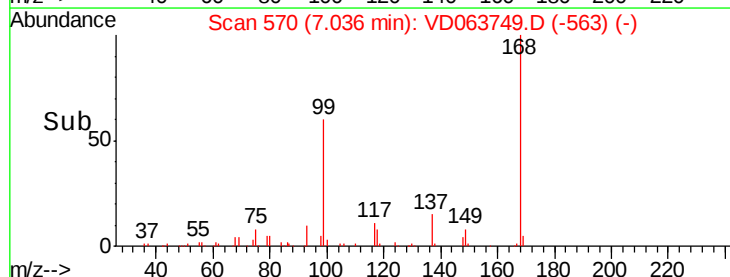
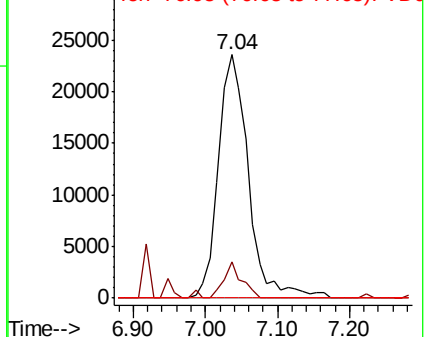
77 0.0 24.3 36.5#

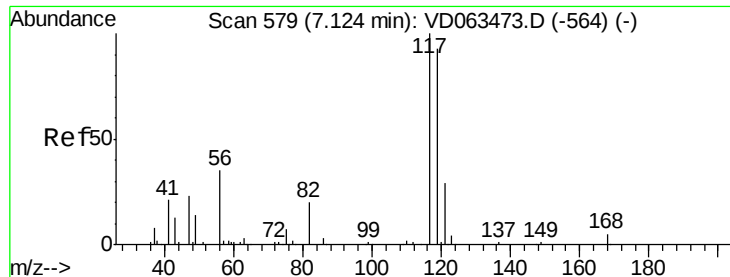


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V





#38

Carbon Tetrachloride

Concen: 5.410 ug/l

RT: 7.04 min Scan# 570

Delta R.T. -0.09 min

Lab File: VD063749.D

Acq: 22 Aug 2019 22:28

Instrument :

MSVOA_D

ClientSampleId :

TS-1VN

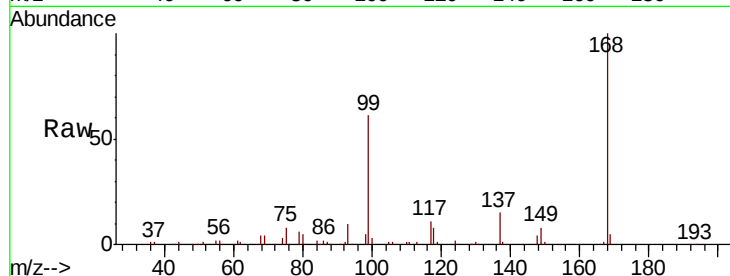
Tgt Ion:117 Resp: 91119

Ion Ratio Lower Upper

117 100

119 4.8 74.2 111.2#

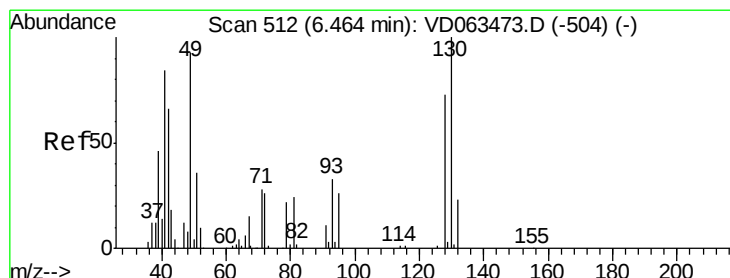
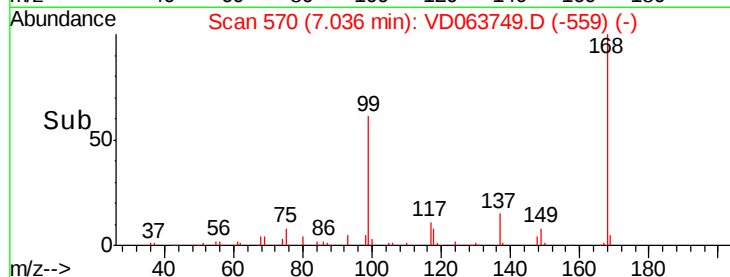
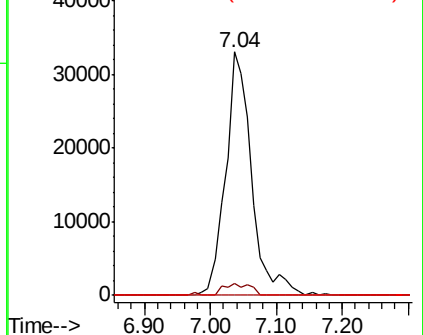
121 0.0 23.1 34.7#



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



#41

Methacrylonitrile

Concen: 1.112 ug/l

RT: 6.47 min Scan# 512

Delta R.T. 0.00 min

Lab File: VD063749.D

Acq: 22 Aug 2019 22:28

Tgt Ion: 41 Resp: 6556

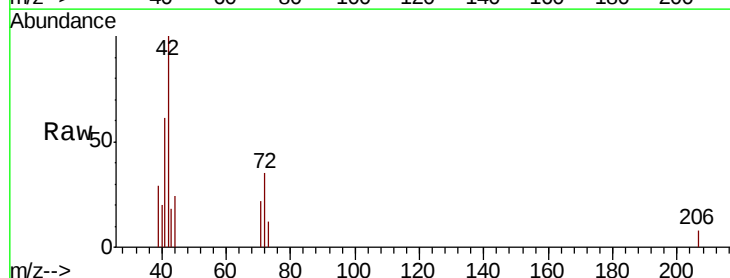
Ion Ratio Lower Upper

41 100

39 48.1 44.6 66.8

67 0.0 14.4 21.6#

52 0.0 9.3 13.9#

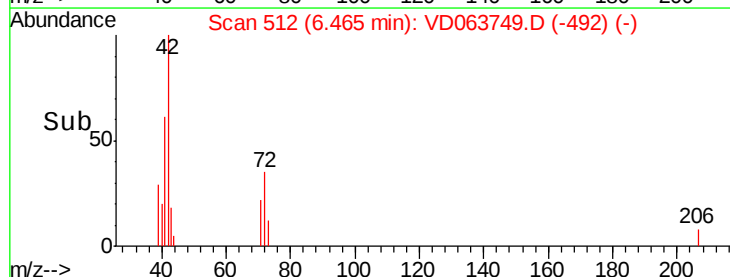
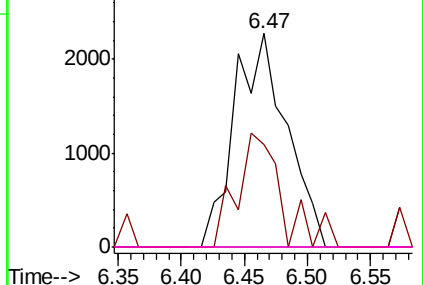


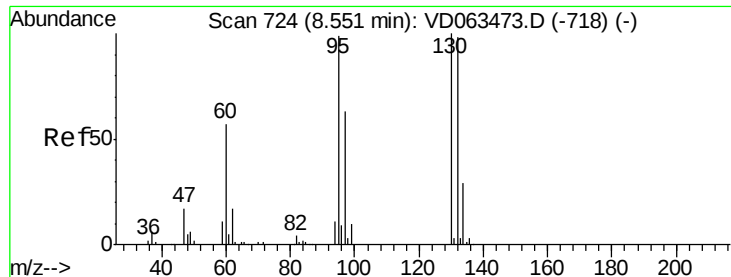
Abundance Ion 40.95 (40.65 to 41.65): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 67.00 (66.70 to 67.70): VDC

Ion 52.00 (51.70 to 52.70): VDC





#44

Trichloroethene

Concen: 4.951 ug/l

RT: 8.54 min Scan# 723

Delta R.T. -0.01 min

Lab File: VD063749.D

Acq: 22 Aug 2019 22:28

Instrument :

MSVOA_D

ClientSampleId :

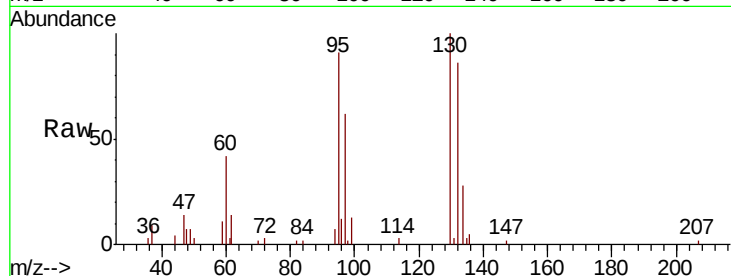
TS-1VN

Tgt Ion:130 Resp: 46546

Ion Ratio Lower Upper

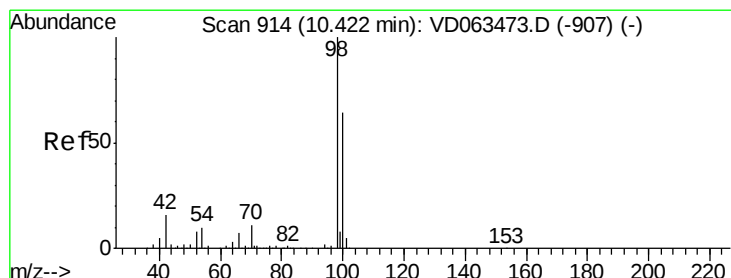
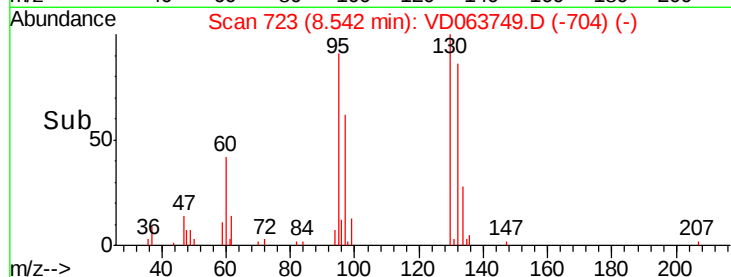
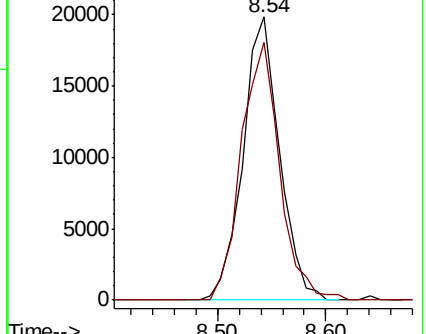
130 100

95 91.1 0.0 198.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VDC



#50

Toluene-d8

Concen: 66.489 ug/l

RT: 10.41 min Scan# 913

Delta R.T. -0.01 min

Lab File: VD063749.D

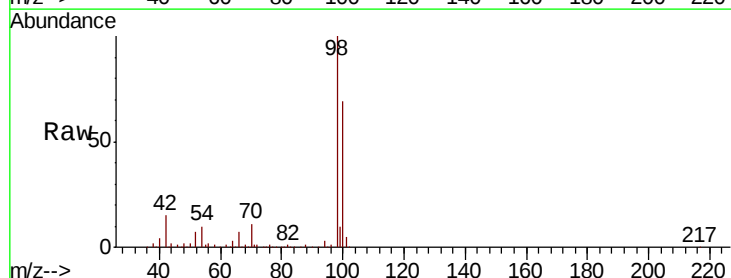
Acq: 22 Aug 2019 22:28

Tgt Ion: 98 Resp: 1556429

Ion Ratio Lower Upper

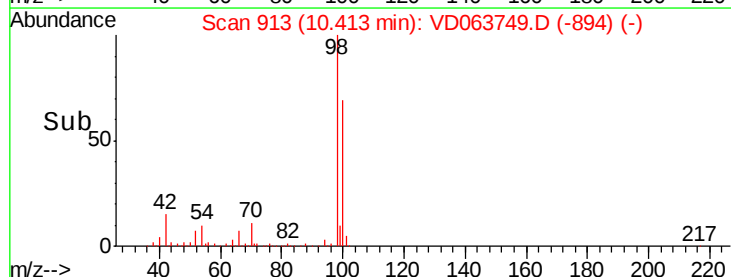
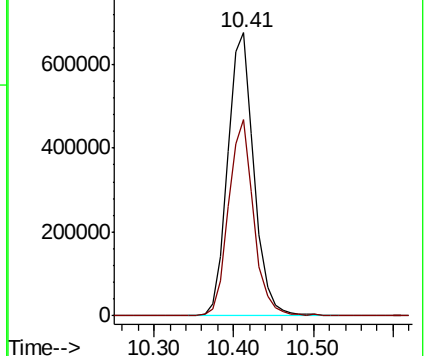
98 100

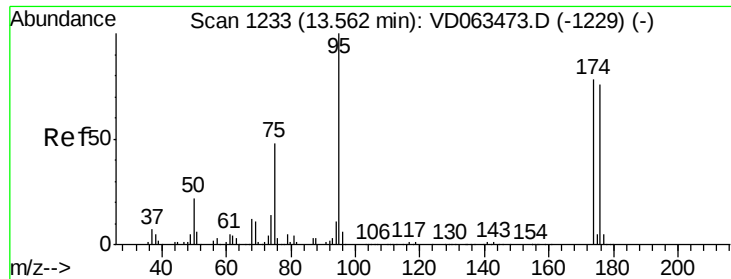
100 69.3 51.7 77.5



Abundance Ion 98.05 (97.75 to 98.75): VDC

Ion 100.05 (99.75 to 100.75): VDC

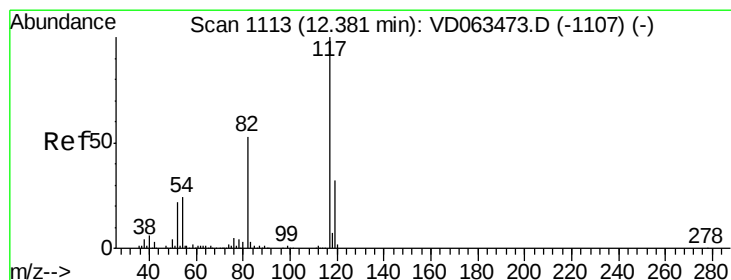
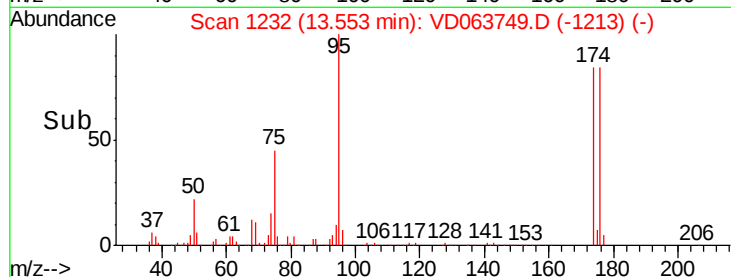
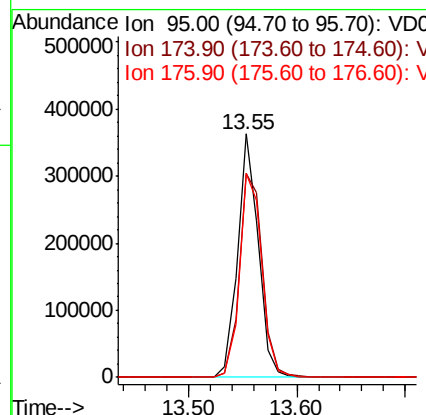
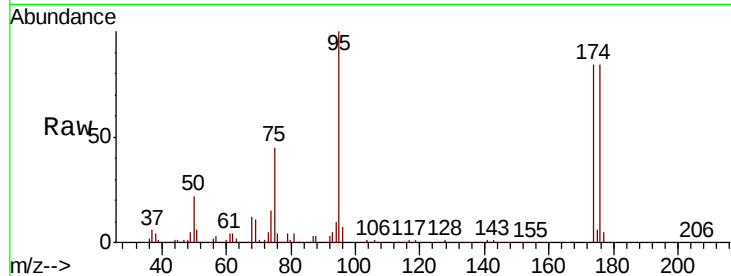




#62
4-Bromofluorobenzene
Concen: 45.304 ug/l
RT: 13.55 min Scan# 1232
Delta R.T. -0.01 min
Lab File: VD063749.D
Acq: 22 Aug 2019 22:28

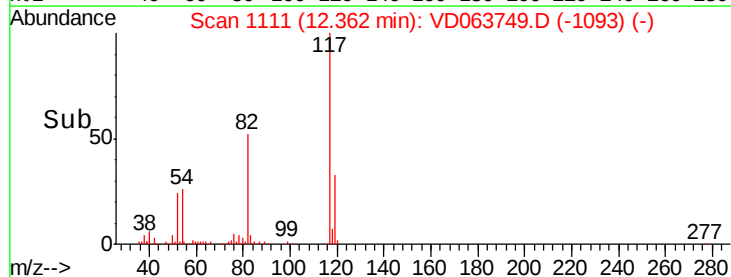
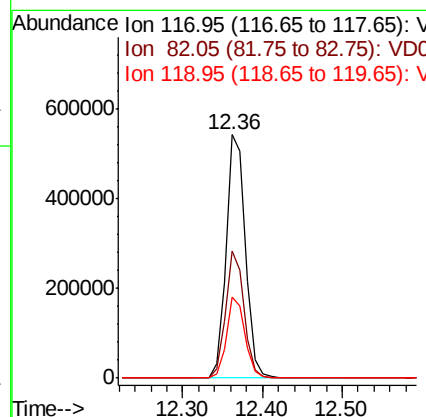
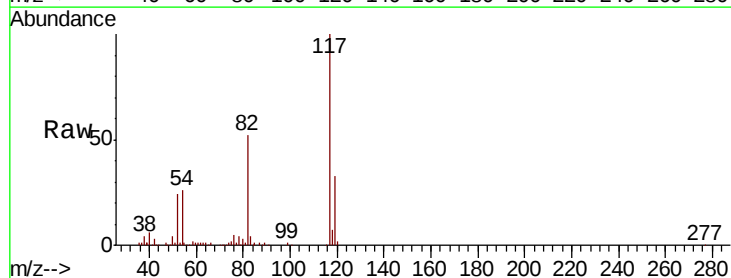
Instrument :
MSVOA_D
ClientSampleId :
TS-1VN

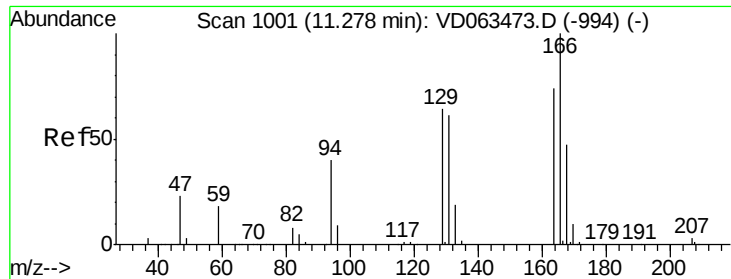
Tgt Ion: 95 Resp: 480670
Ion Ratio Lower Upper
95 100
174 83.9 0.0 155.4
176 83.9 0.0 152.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.36 min Scan# 1111
Delta R.T. -0.02 min
Lab File: VD063749.D
Acq: 22 Aug 2019 22:28

Tgt Ion: 117 Resp: 927436
Ion Ratio Lower Upper
117 100
82 52.3 42.0 63.0
119 33.1 25.4 38.0

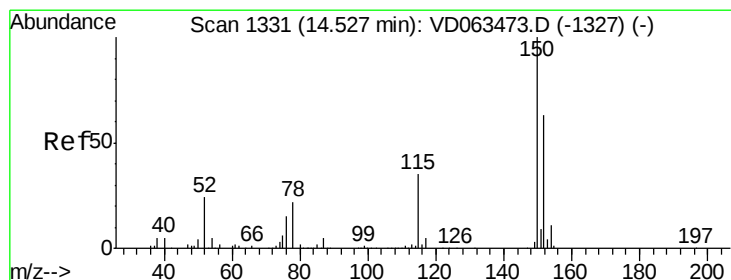
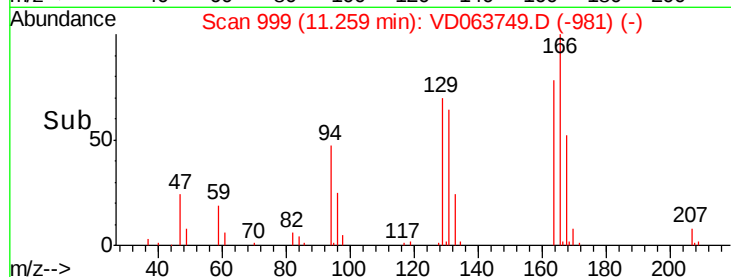
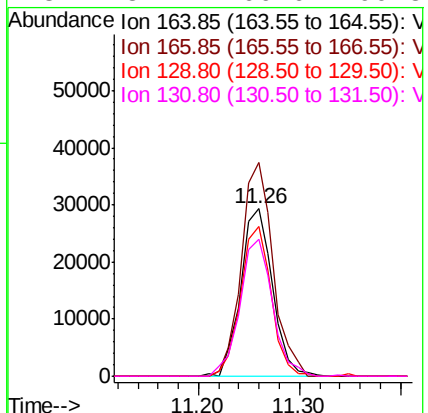
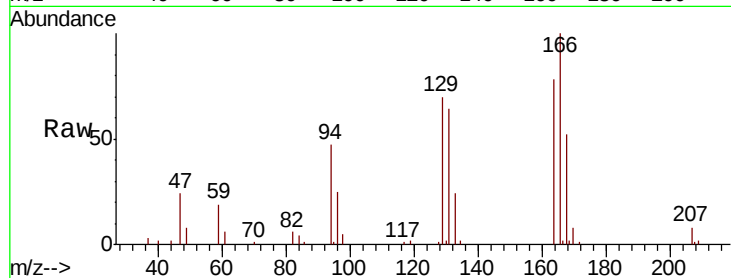




#64
Tetrachloroethene
Concen: 8.964 ug/l
RT: 11.26 min Scan# 999
Delta R.T. -0.02 min
Lab File: VD063749.D
Acq: 22 Aug 2019 22:28

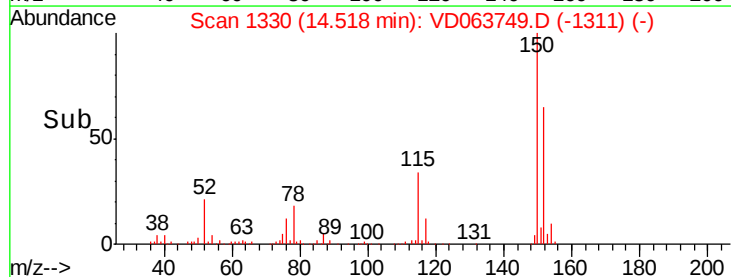
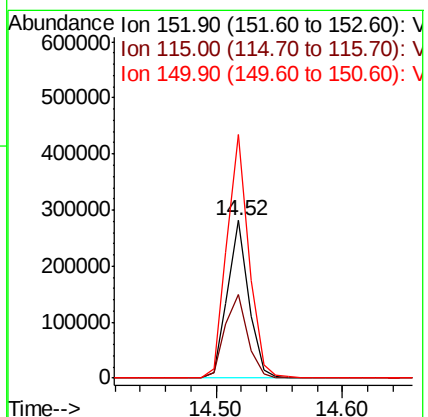
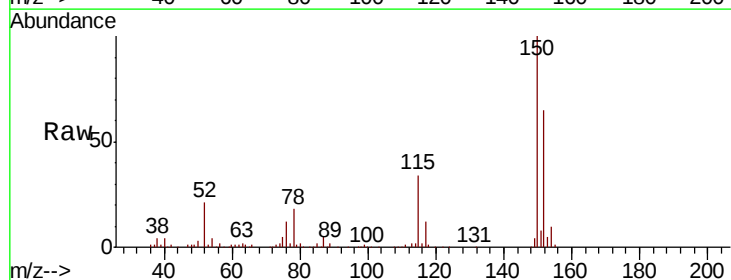
Instrument :
MSVOA_D
ClientSampleId :
TS-1VN

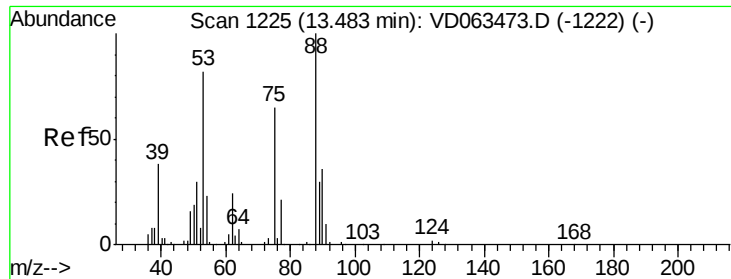
Tgt Ion:164 Resp: 64178
Ion Ratio Lower Upper
164 100
166 127.6 108.6 163.0
129 89.8 69.0 103.6
131 81.7 66.6 99.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.52 min Scan# 1330
Delta R.T. -0.01 min
Lab File: VD063749.D
Acq: 22 Aug 2019 22:28

Tgt Ion:152 Resp: 328579
Ion Ratio Lower Upper
152 100
115 52.9 30.9 92.7
150 154.7 0.0 318.6





#81

trans-1,4-Dichloro-2-butene

Concen: 213.861 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.07 min

Lab File: VD063749.D

Acq: 22 Aug 2019 22:28

Instrument :

MSVOA_D

ClientSampleId :

TS-1VN

Tgt Ion: 75 Resp: 216758

Ion Ratio Lower Upper

75 100

53 0.0 101.0 151.4#

89 0.0 37.0 55.6#

