

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD122319\
 Data File : VD064571.D
 Acq On : 23 Dec 2019 16:31
 Operator : VA/SY
 Sample : K6396-10
 Misc : 4.83G/5.00ml/MSVOA D/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 SB-5-(0-2)

Quant Time: Dec 24 05:55:05 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D112719S.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 29 07:18:03 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	8.00	168	245	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	8.87	114	206	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	236	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	0.00	152	0	0.00	ug/l	-13.58

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.32	65	55	24.80	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	49.60%	
35) Dibromofluoromethane	0.00	113	0	0.00	ug/l	
Spiked Amount	50.000		Recovery	=	0.00%	
50) Toluene-d8	10.34	98	195	39.89	ug/l	0.00
Spiked Amount	50.000		Recovery	=	79.78%	
62) 4-Bromofluorobenzene	0.00	95	0	0.00	ug/l	
Spiked Amount	50.000		Recovery	=	0.00%	

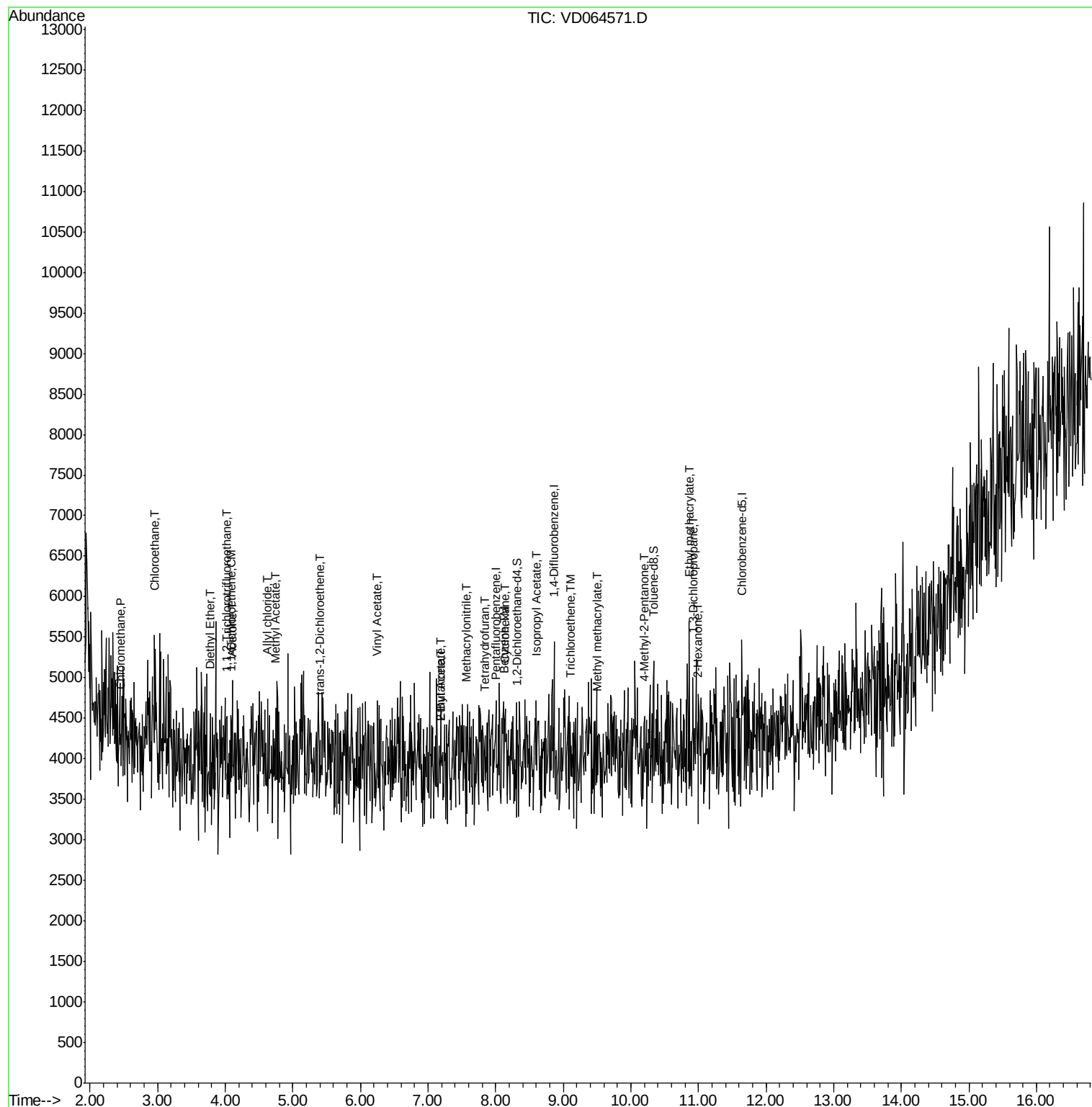
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.46	50	54	19.286	ug/l #	41
6) Chloroethane	2.96	64	84	38.874	ug/l #	44
8) Diethyl Ether	3.78	74	57	51.039	ug/l #	1
9) 1,1,2-Trichlorotrifluoroet	4.03	101	56	24.302	ug/l #	15
12) 1,1-Dichloroethene	4.09	96	104	47.095	ug/l #	1
14) Allyl chloride	4.62	41	70	20.311	ug/l #	19
16) Acetone	4.11	43	54	120.500	ug/l #	47
18) Methyl Acetate	4.74	43	66	50.491	ug/l #	51
21) trans-1,2-Dichloroethene	5.40	96	57	22.819	ug/l #	1
23) Vinyl Acetate	6.24	43	76	18.948	ug/l #	71
25) 2-Butanone	7.18	43	62	97.830	ug/l #	49
29) Tetrahydrofuran	7.84	42	54	133.925	ug/l #	33
31) Cyclohexane	8.14	56	54	11.593	ug/l #	15
37) Ethyl Acetate	7.18	43	62	74.990	ug/l #	69
40) Benzene	8.13	78	57	10.533	ug/l #	51
41) Methacrylonitrile	7.56	41	68	143.416	ug/l #	26
43) Isopropyl Acetate	8.60	43	55	33.834	ug/l #	51
44) Trichloroethene	9.10	130	73	44.781	ug/l	3
48) Methyl methacrylate	9.51	41	60	80.660	ug/l #	34
51) 4-Methyl-2-Pentanone	10.19	43	57	70.866	ug/l #	37
56) Ethyl methacrylate	10.87	69	59	46.248	ug/l #	22
57) 1,3-Dichloropropane	10.92	76	59	34.652	ug/l #	42
59) 2-Hexanone	10.98	43	62	111.087	ug/l #	26

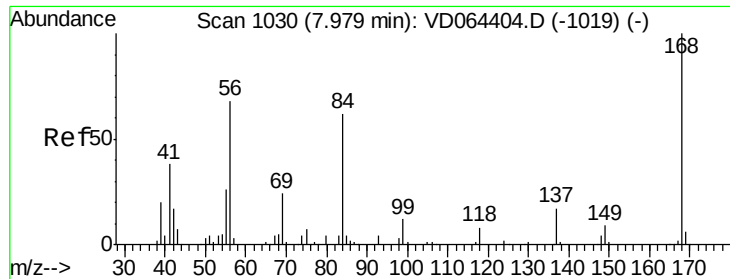
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Nov 29 07:18:03 2019
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.00 min Scan# 1033

Delta R.T. 0.02 min

Lab File: VD064571.D

Acq: 23 Dec 2019 16:31

Instrument :

MSVOA_D

ClientSampleId :

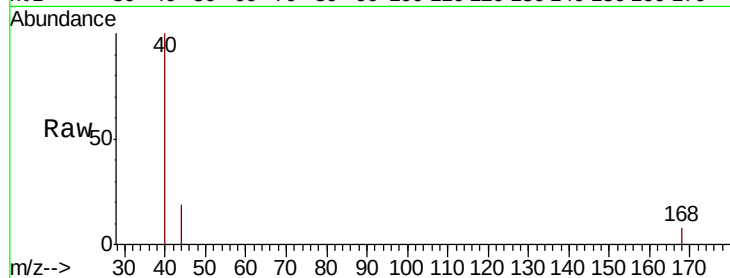
SB-5-(0-2)

Tot Ion:168 Resp: 245

Ion Ratio Lower Upper

168 100

99 0.0 40.7 61.1#



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

8.00

250

200

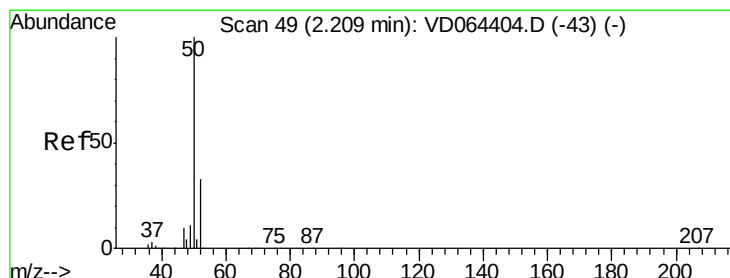
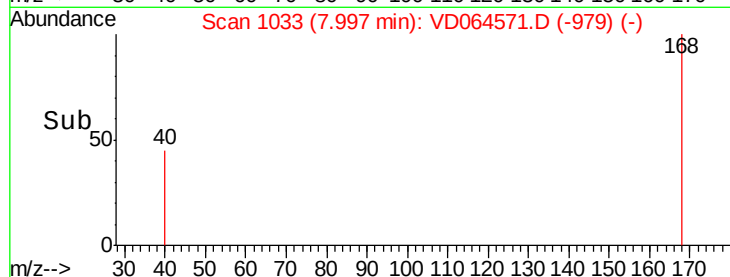
150

100

50

0

Time-->



#3

Chloromethane

Concen: 19.286 ug/l

RT: 2.46 min Scan# 91

Delta R.T. 0.25 min

Lab File: VD064571.D

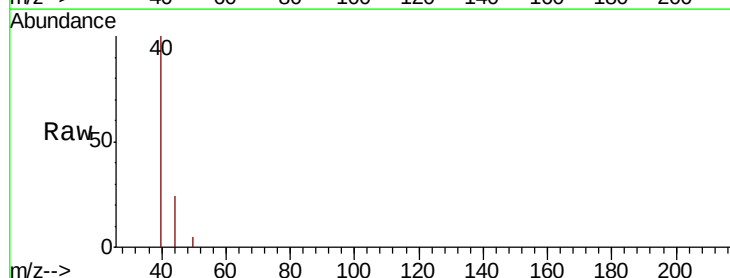
Acq: 23 Dec 2019 16:31

Tgt Ion: 50 Resp: 54

Ion Ratio Lower Upper

50 100

52 0.0 26.7 40.1#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC

2.46

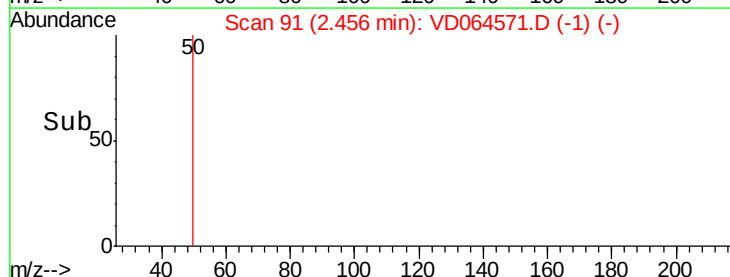
150

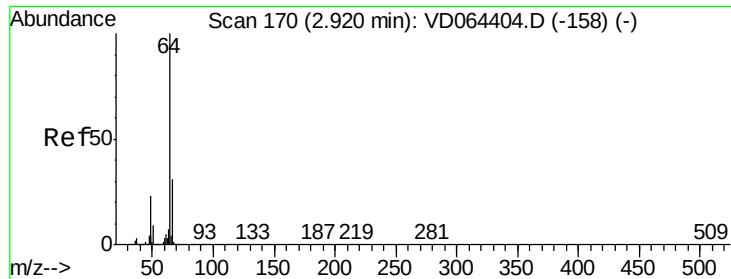
100

50

0

Time-->

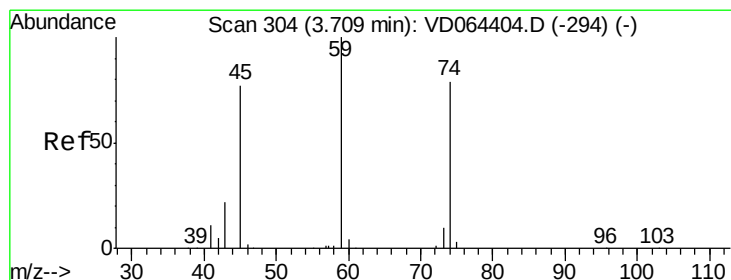
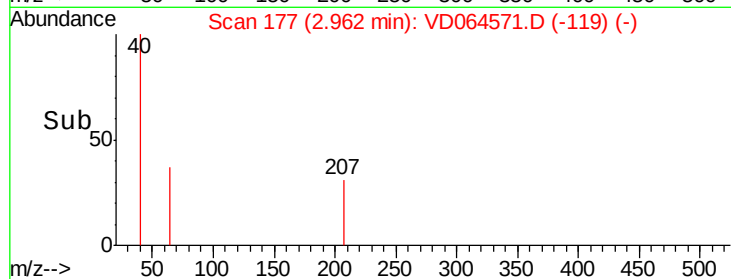
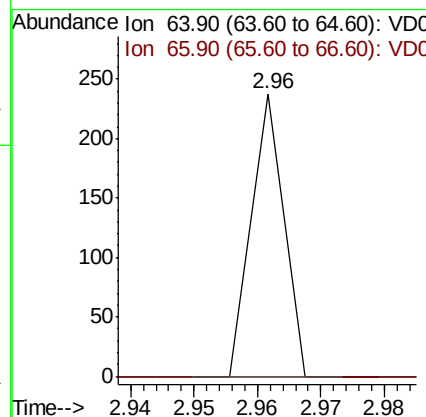
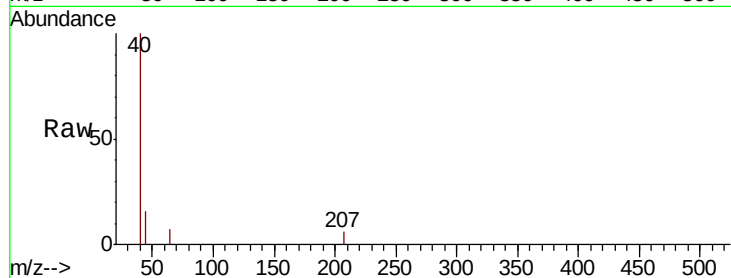




#6
 Chloroethane
 Concen: 38.874 ug/l
 RT: 2.96 min Scan# 177
 Delta R.T. 0.04 min
 Lab File: VD064571.D
 Acq: 23 Dec 2019 16:31

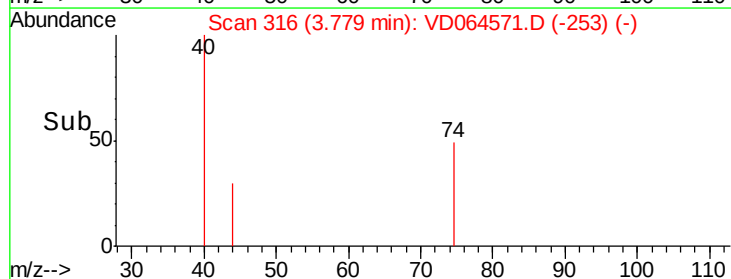
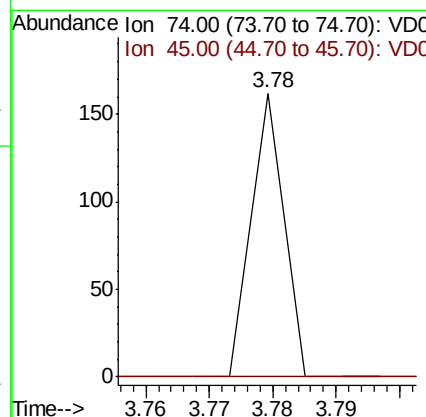
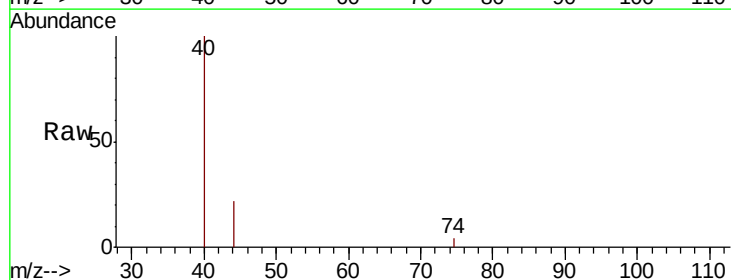
Instrument :
 MSVOA_D
 ClientSampleId :
 SB-5-(0-2)

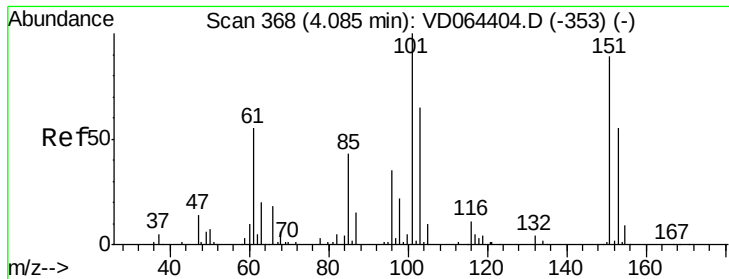
Tot Ion: 64 Resp: 84
 Ion Ratio Lower Upper
 64 100
 66 0.0 24.6 37.0#



#8
 Diethyl Ether
 Concen: 51.039 ug/l
 RT: 3.78 min Scan# 316
 Delta R.T. 0.07 min
 Lab File: VD064571.D
 Acq: 23 Dec 2019 16:31

Tgt Ion: 74 Resp: 57
 Ion Ratio Lower Upper
 74 100
 45 0.0 48.6 145.9#





#9

1,1,2-Trichlorotrifluoroethane

Concen: 24.302 ug/l

RT: 4.03 min Scan# 358

Delta R.T. -0.06 min

Lab File: VD064571.D

Acq: 23 Dec 2019 16:31

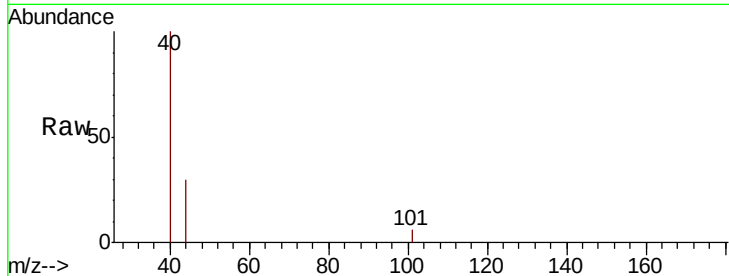
Instrument :

MSVOA_D

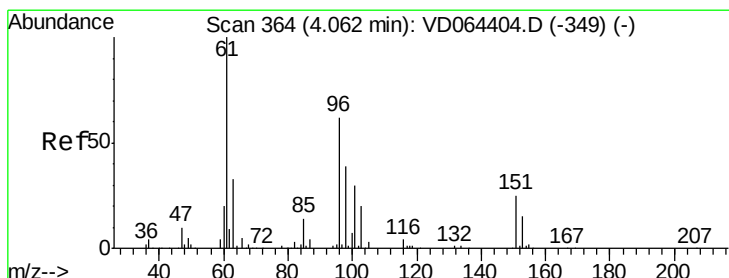
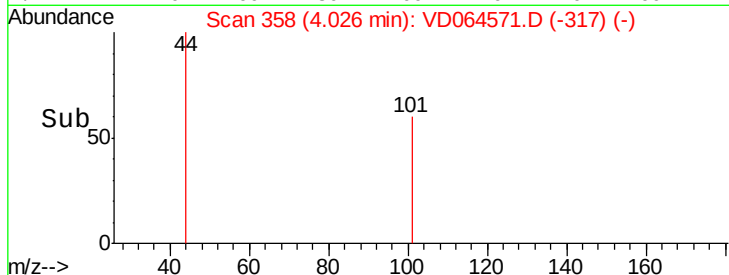
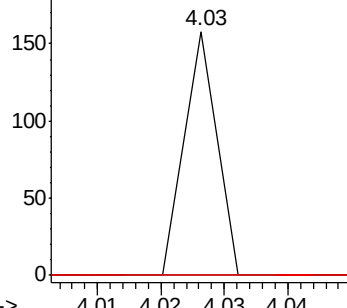
ClientSampleId :

SB-5-(0-2)

Tot Ion:	101	Resp:	56
Ion	Ratio	Lower	Upper
101	100		
85	0.0	34.8	52.2#
151	0.0	68.8	103.2#



Abundance Ion 100.90 (100.60 to 101.60): V
Ion 84.90 (84.60 to 85.60): VDC
Ion 150.80 (150.50 to 151.50): V



#12

1,1-Dichloroethene

Concen: 47.095 ug/l

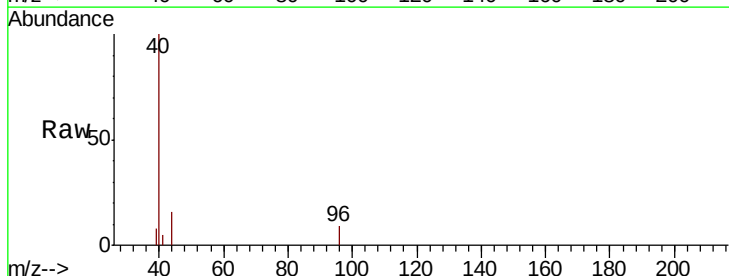
RT: 4.09 min Scan# 369

Delta R.T. 0.03 min

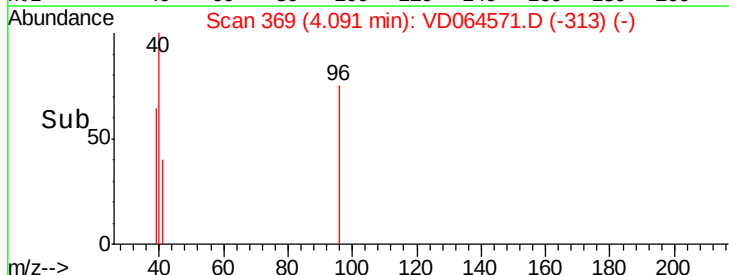
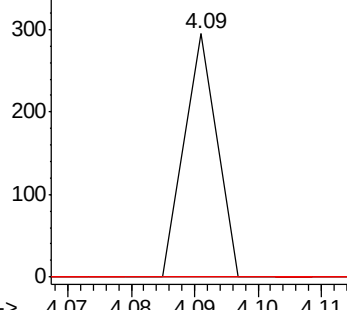
Lab File: VD064571.D

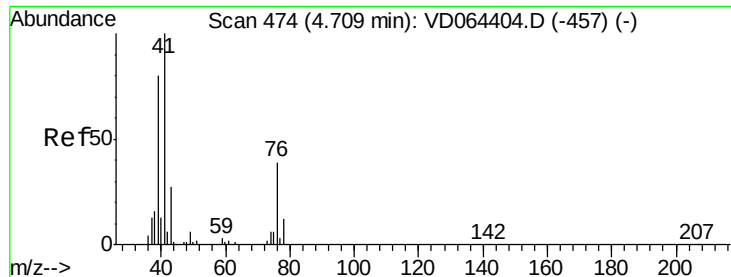
Acq: 23 Dec 2019 16:31

Tgt Ion:	96	Resp:	104
Ion	Ratio	Lower	Upper
96	100		
61	0.0	128.2	192.4#
98	0.0	50.4	75.6#



Abundance Ion 95.90 (95.60 to 96.60): VDC
Ion 60.90 (60.60 to 61.60): VDC
Ion 97.90 (97.60 to 98.60): VDC





#14

Allvl chloride

Concen: 20.311 ug/l

RT: 4.62 min Scan# 459

Delta R.T. -0.09 min

Lab File: VD064571.D

Acq: 23 Dec 2019 16:31

Instrument :

MSVOA_D

ClientSampleId :

SB-5-(0-2)

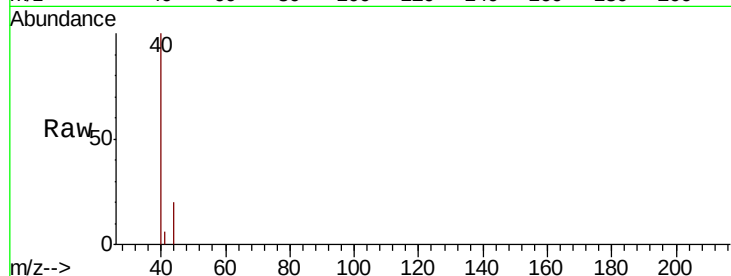
Tot Ion: 41 Resp: 70

Ion Ratio Lower Upper

41 100

39 0.0 62.1 93.1#

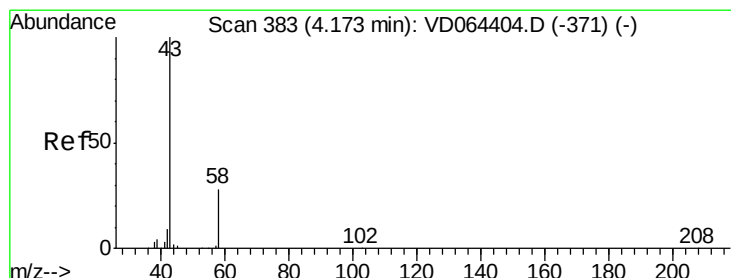
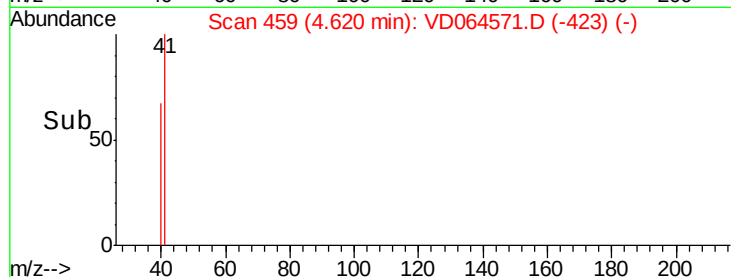
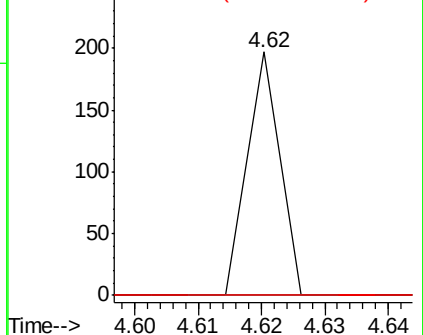
76 0.0 29.8 44.8#



Abundance Ion 41.00 (40.70 to 41.70): VDC

Ion 39.00 (38.70 to 39.70): VDC

Ion 75.90 (75.60 to 76.60): VDC



#16

Acetone

Concen: 120.500 ug/l

RT: 4.11 min Scan# 373

Delta R.T. -0.06 min

Lab File: VD064571.D

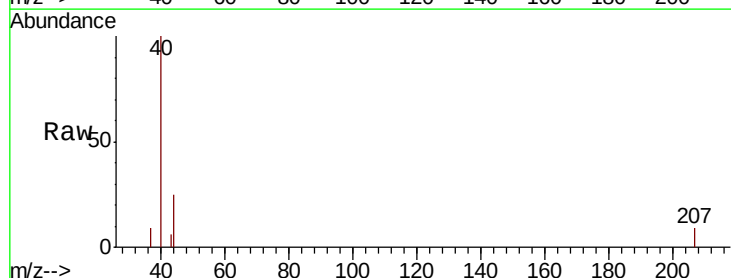
Acq: 23 Dec 2019 16:31

Tgt Ion: 43 Resp: 54

Ion Ratio Lower Upper

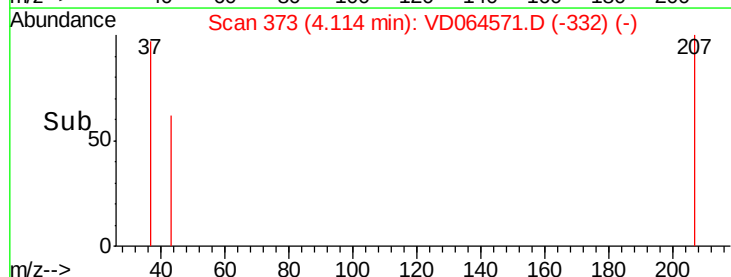
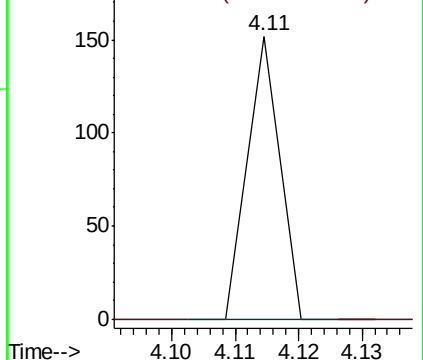
43 100

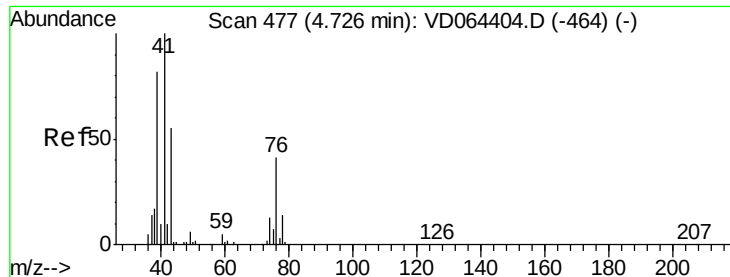
58 0.0 22.6 33.8#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

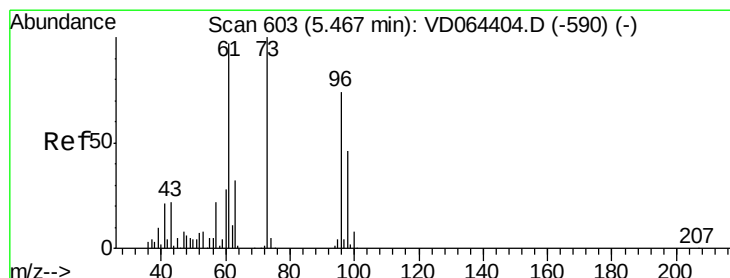
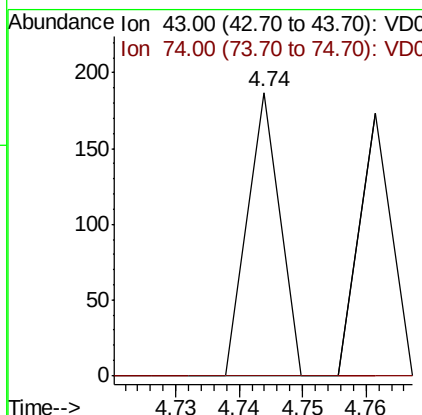
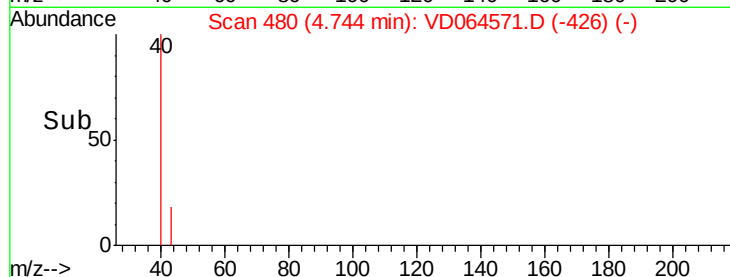
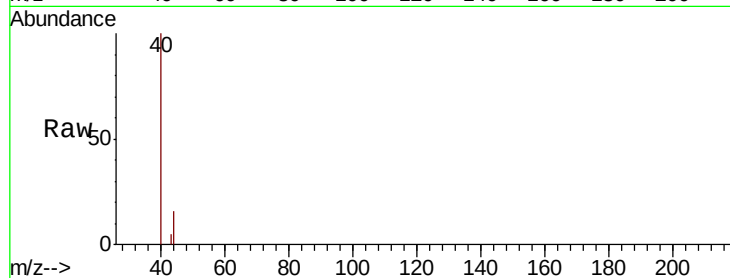




#18
Methyl Acetate
Concen: 50.491 ug/l
RT: 4.74 min Scan# 480
Delta R.T. 0.02 min
Lab File: VD064571.D
Acq: 23 Dec 2019 16:31

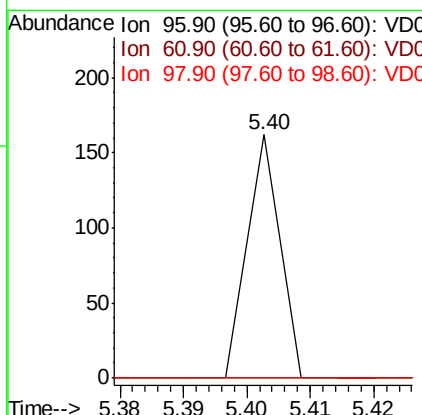
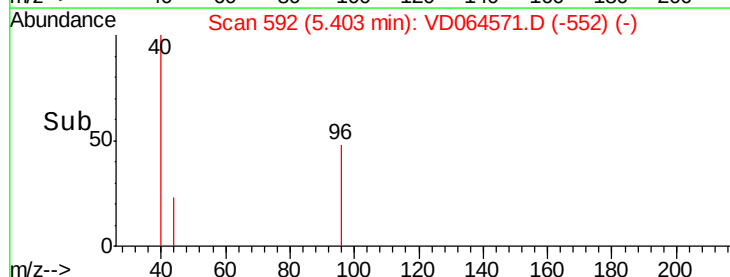
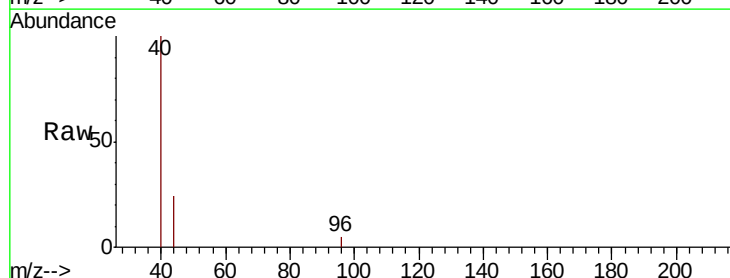
Instrument :
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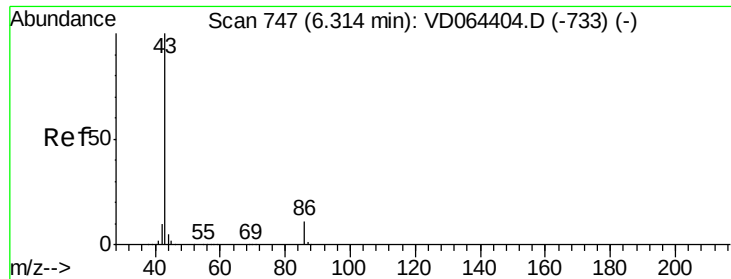
Tot Ion: 43 Resp: 66
Ion Ratio Lower Upper
43 100
74 0.0 19.7 29.5#



#21
trans-1,2-Dichloroethene
Concen: 22.819 ug/l
RT: 5.40 min Scan# 592
Delta R.T. -0.06 min
Lab File: VD064571.D
Acq: 23 Dec 2019 16:31

Tgt Ion: 96 Resp: 57
Ion Ratio Lower Upper
96 100
61 0.0 105.8 158.6#
98 0.0 50.1 75.1#





#23

Vinyl Acetate

Concen: 18.948 ug/l

RT: 6.24 min Scan# 735

Delta R.T. -0.07 min

Lab File: VD064571.D

Acq: 23 Dec 2019 16:31

Instrument :

MSVOA_D

ClientSampleId :

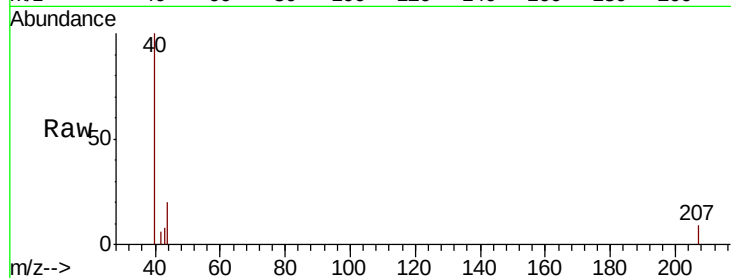
SB-5-(0-2)

Tot Ion: 43 Resp: 76

Ion Ratio Lower Upper

43 100

86 0.0 8.9 13.3#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 86.00 (85.70 to 86.70): VDC

250

200

150

100

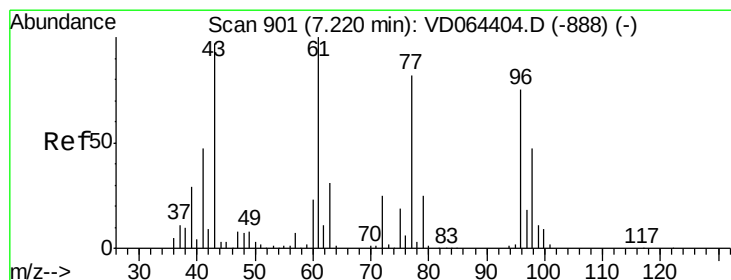
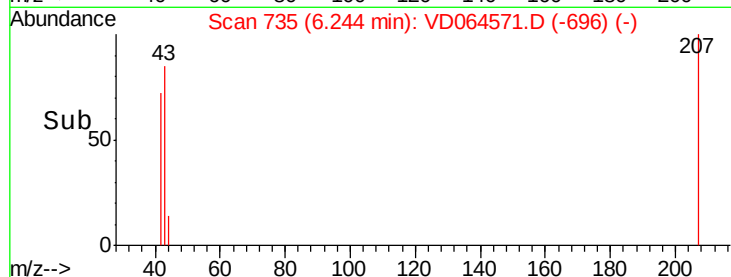
50

0

6.23 6.24 6.25 6.26

6.24

Time-->



#25

2-Butanone

Concen: 97.830 ug/l

RT: 7.18 min Scan# 894

Delta R.T. -0.04 min

Lab File: VD064571.D

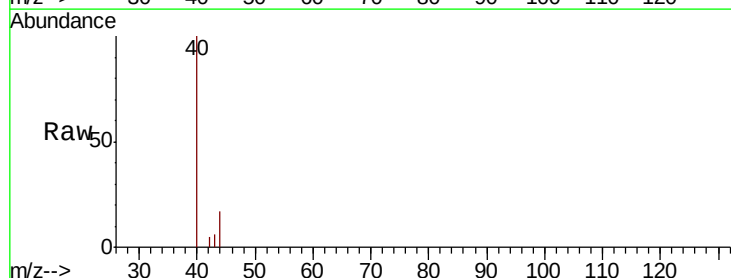
Acq: 23 Dec 2019 16:31

Tgt Ion: 43 Resp: 62

Ion Ratio Lower Upper

43 100

72 0.0 21.0 31.4#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

200

150

100

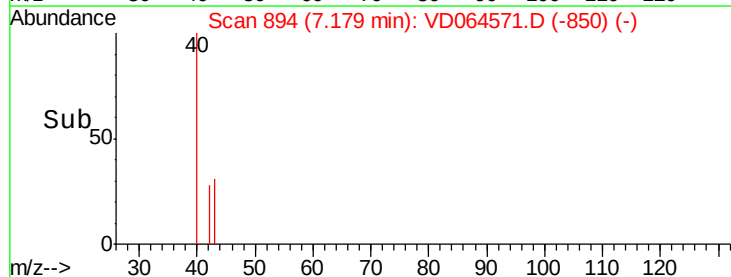
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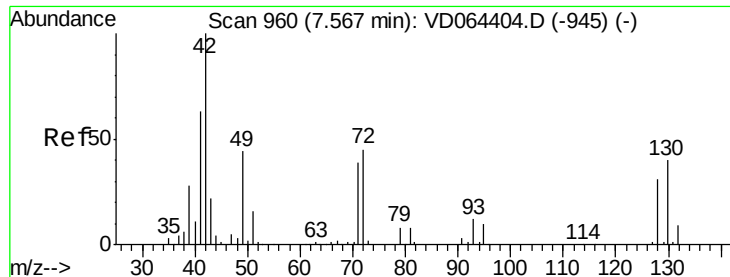
0

7.16 7.17 7.18 7.19

7.18

Time-->

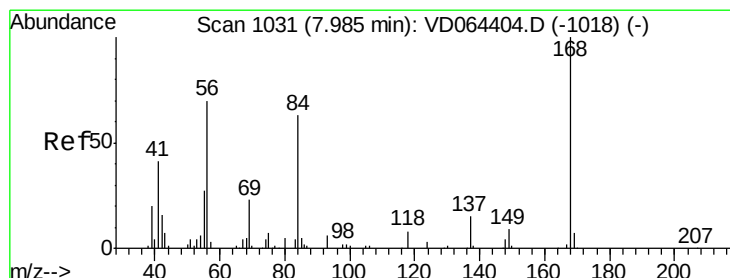
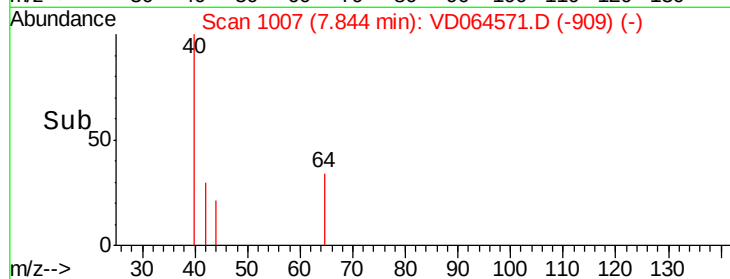
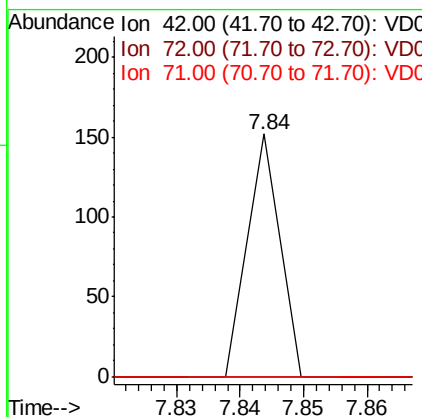
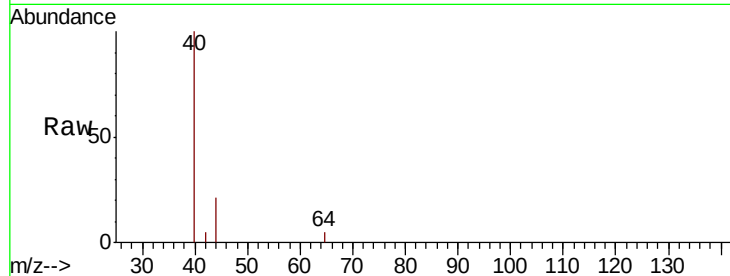




#29
Tetrahydrofuran
Concen: 133.925 ug/l
RT: 7.84 min Scan# 1007
Delta R.T. 0.28 min
Lab File: VD064571.D
Acq: 23 Dec 2019 16:31

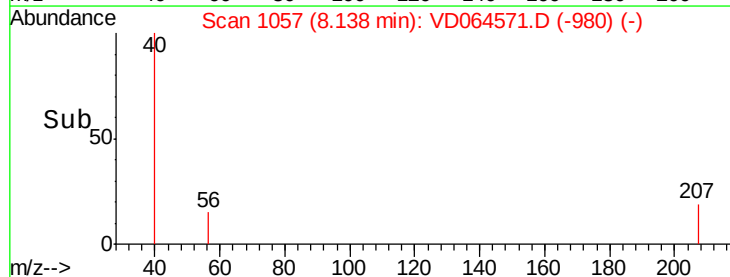
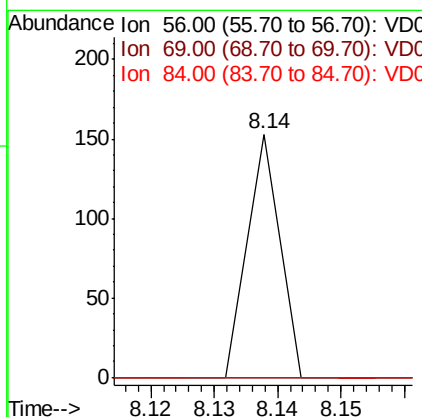
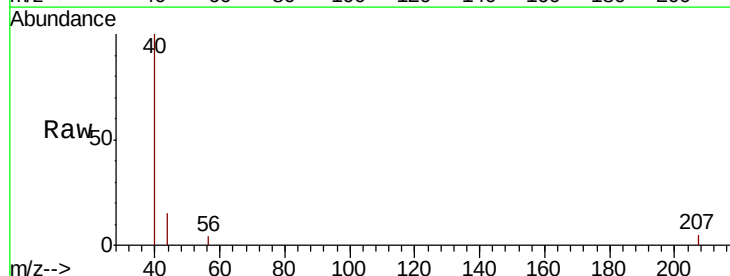
Instrument :
MSVOA_D
ClientSampleId :
SB-5-(0-2)

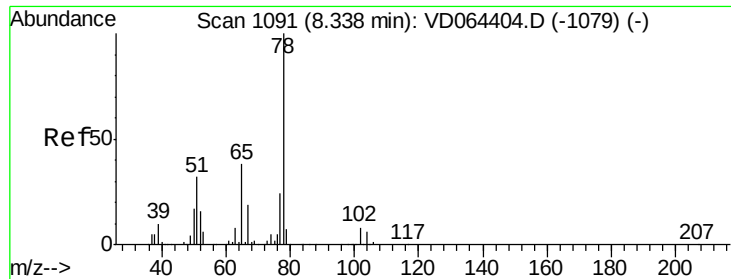
Tot Ion	Ratio	Lower	Upper
42	100		
72	0.0	35.8	53.8#
71	0.0	32.7	49.1#



#31
Cyclohexane
Concen: 11.593 ug/l
RT: 8.14 min Scan# 1057
Delta R.T. 0.15 min
Lab File: VD064571.D
Acq: 23 Dec 2019 16:31

Tgt Ion	Ratio	Lower	Upper
56	100		
69	0.0	26.2	39.4#
84	0.0	70.3	105.5#

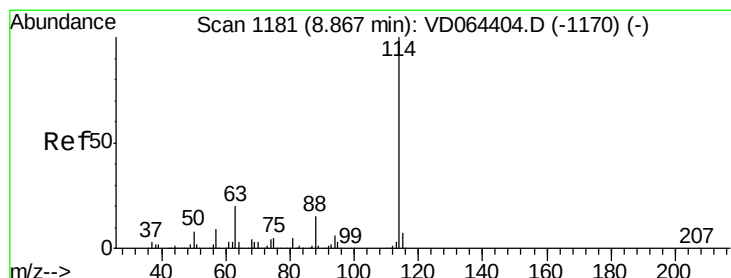
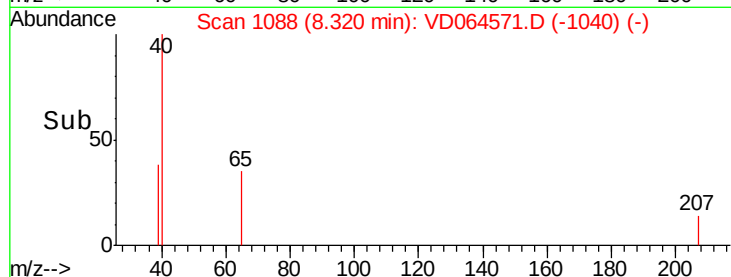
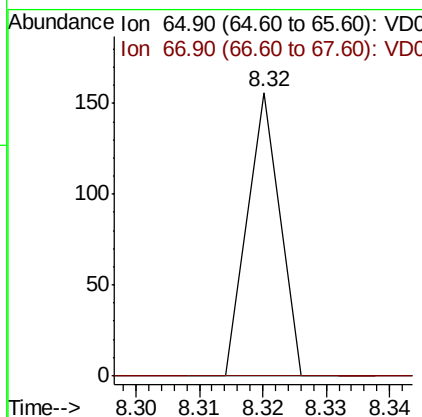
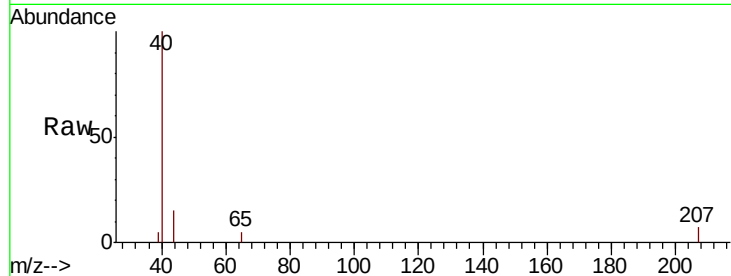




#33
 1,2-Dichloroethane-d4
 Concen: 24.801 ug/l
 RT: 8.32 min Scan# 1088
 Delta R.T. -0.02 min
 Lab File: VD064571.D
 Acq: 23 Dec 2019 16:31

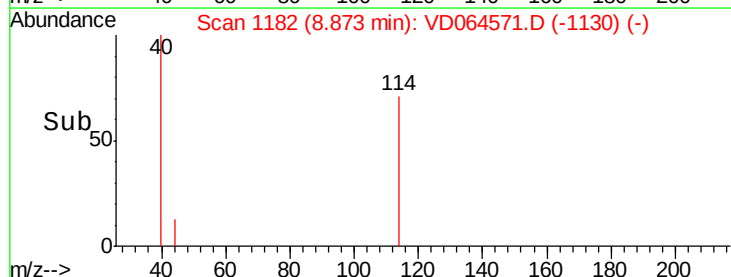
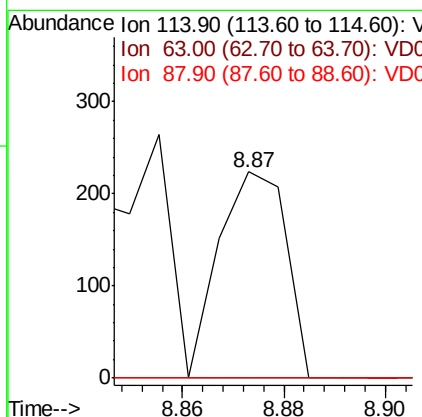
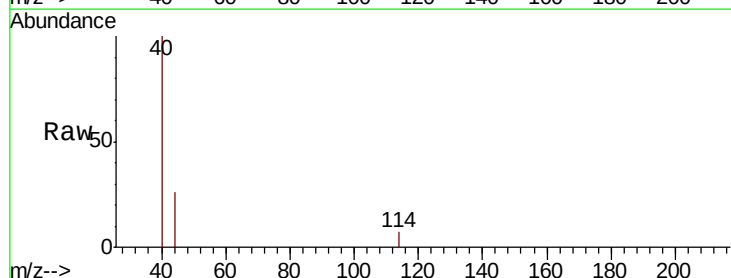
Instrument :
 MSVOA_D
 ClientSampleId :
 SB-5-(0-2)

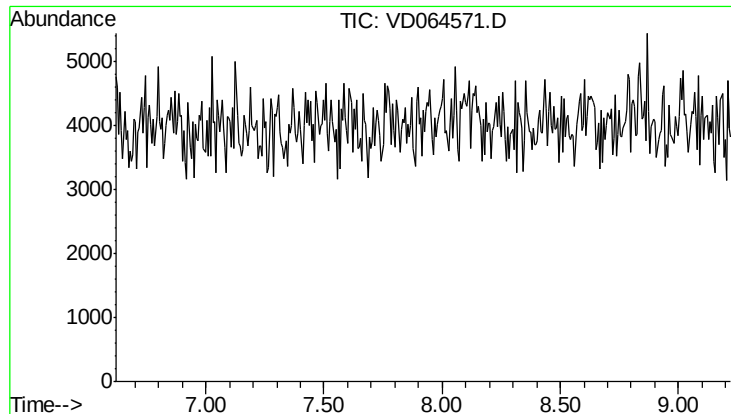
Tot Ion: 65 Resp: 55
 Ion Ratio Lower Upper
 65 100
 67 0.0 0.0 102.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.87 min Scan# 1182
 Delta R.T. 0.01 min
 Lab File: VD064571.D
 Acq: 23 Dec 2019 16:31

Tgt Ion: 114 Resp: 206
 Ion Ratio Lower Upper
 114 100
 63 0.0 0.0 40.0
 88 0.0 0.0 29.2

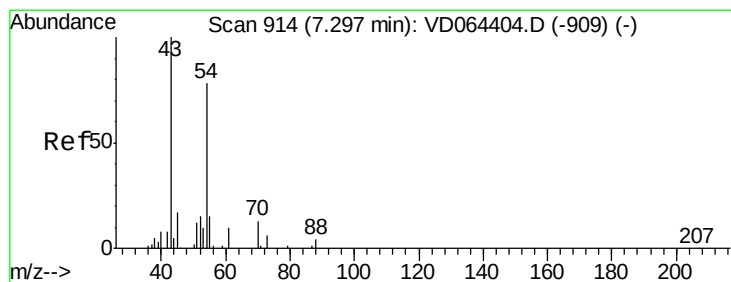
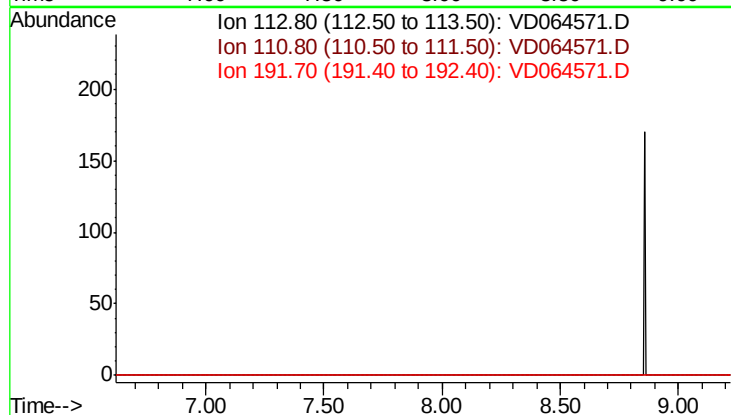




#35
 Dibromofluoromethane
 Concen: 0.000 ug/l
 Expected RT: 7.92 min
 Lab File: VD064571.D
 Acq: 23 Dec 2019 16:31

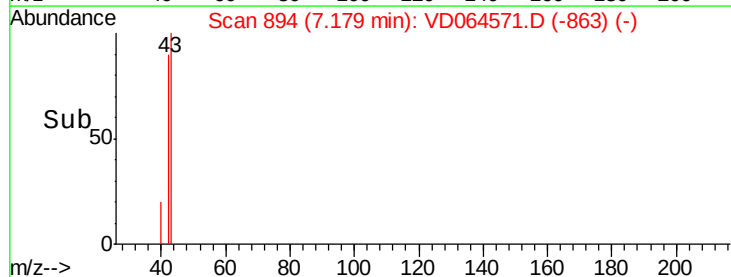
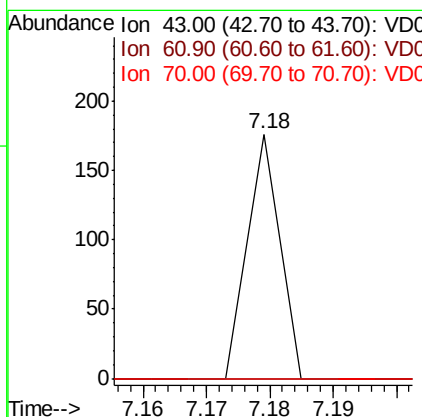
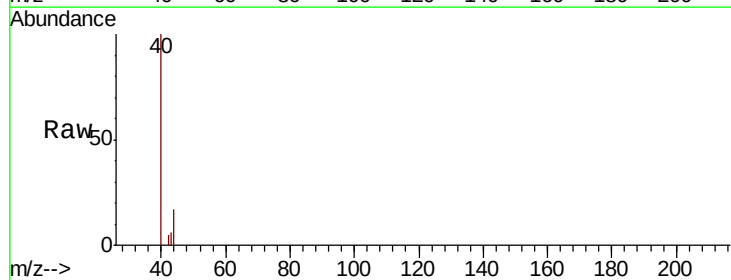
Instrument :
 MSVOA_D
 ClientSampleId :
 SB-5-(0-2)

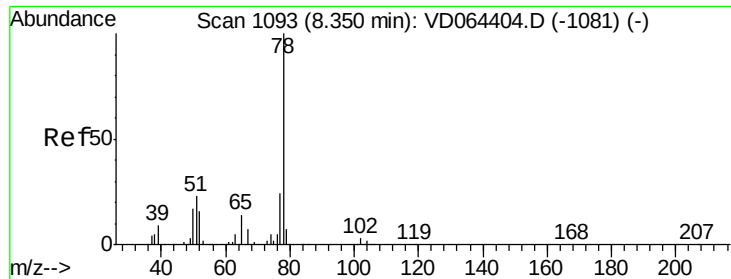
Tot Ion: 113
 Sig Exp Ratio
 113 100
 111 99.3
 192 23.3



#37
 Ethyl Acetate
 Concen: 74.990 ug/l
 RT: 7.18 min Scan# 894
 Delta R.T. -0.12 min
 Lab File: VD064571.D
 Acq: 23 Dec 2019 16:31

Tgt Ion: 43 Resp: 62
 Ion Ratio Lower Upper
 43 100
 61 0.0 10.9 16.3#
 70 0.0 8.3 12.5#





#40

Benzene

Concen: 10.533 ug/l

RT: 8.13 min Scan# 1056

Delta R.T. -0.22 min

Lab File: VD064571.D

Acq: 23 Dec 2019 16:31

Instrument :

MSVOA_D

ClientSampleId :

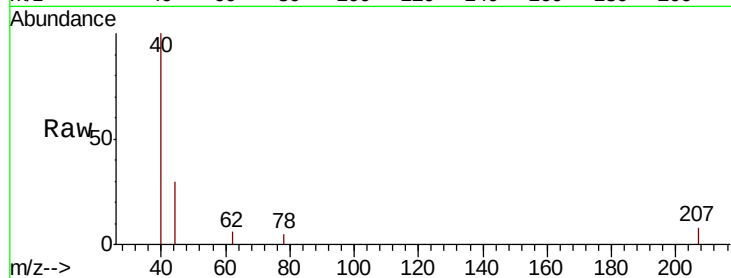
SB-5-(0-2)

Tot Ion: 78 Resp: 57

Ion Ratio Lower Upper

78 100

77 0.0 19.6 29.4#



Abundance Ion 78.00 (77.70 to 78.70): VDC

Ion 77.00 (76.70 to 77.70): VDC

8.13

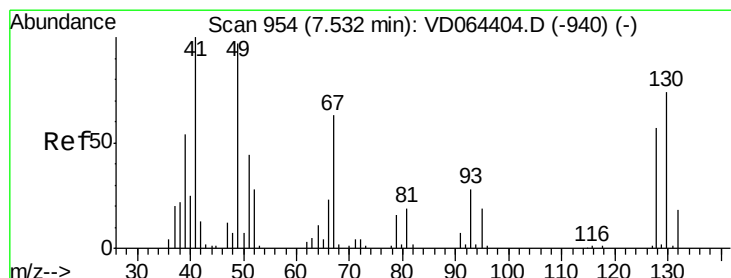
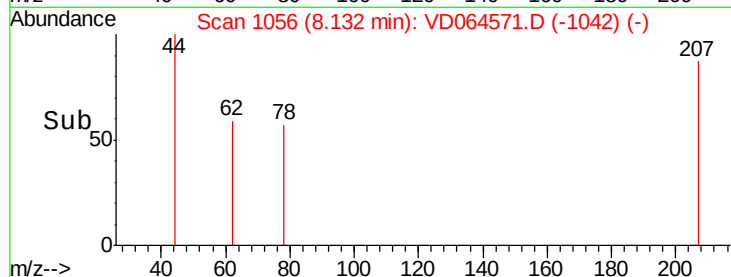
150

100

50

0

Time--> 8.11 8.12 8.13 8.14 8.15



#41

Methacrylonitrile

Concen: 143.416 ug/l

RT: 7.56 min Scan# 958

Delta R.T. 0.02 min

Lab File: VD064571.D

Acq: 23 Dec 2019 16:31

Tgt Ion: 41 Resp: 68

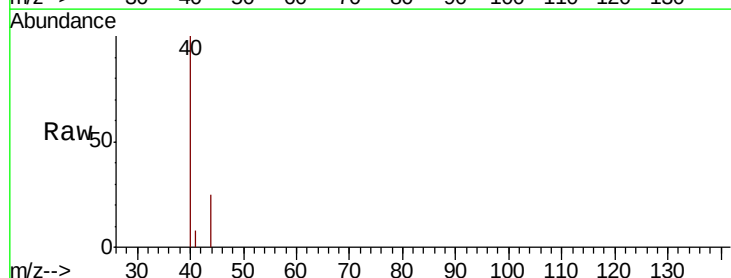
Ion Ratio Lower Upper

41 100

39 0.0 44.6 67.0#

67 0.0 50.9 76.3#

52 0.0 22.5 33.7#



Abundance Ion 41.00 (40.70 to 41.70): VDC

Ion 39.00 (38.70 to 39.70): VDC

Ion 67.00 (66.70 to 67.70): VDC

Ion 52.00 (51.70 to 52.70): VDC

7.56

200

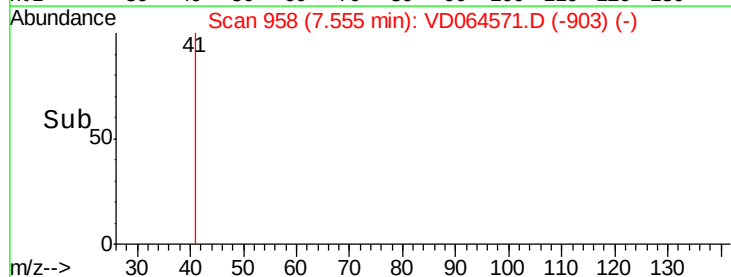
150

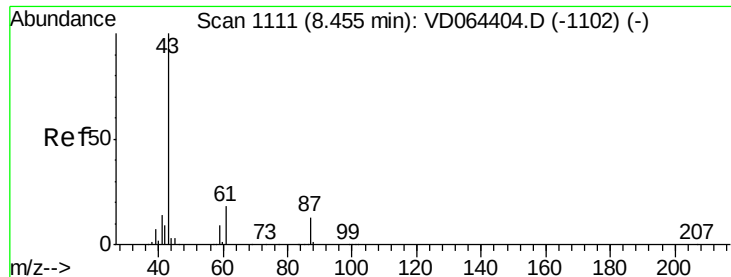
100

50

0

Time--> 7.54 7.55 7.56 7.57





#43

Isopropyl Acetate

Concen: 33.834 ug/l

RT: 8.60 min Scan# 1135

Delta R.T. 0.14 min

Lab File: VD064571.D

Acq: 23 Dec 2019 16:31

Instrument :

MSVOA_D

ClientSampleID :

SB-5-(0-2)

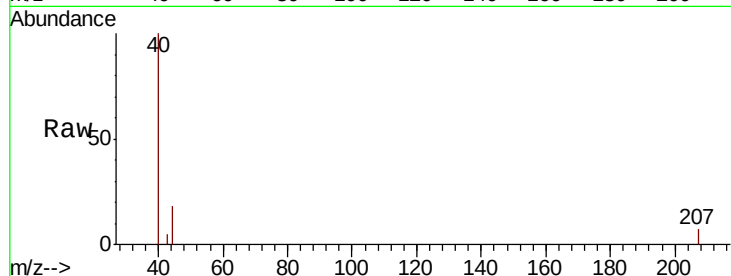
Tot Ion: 43 Resp: 55

Ion Ratio Lower Upper

43 100

61 0.0 24.0 36.0#

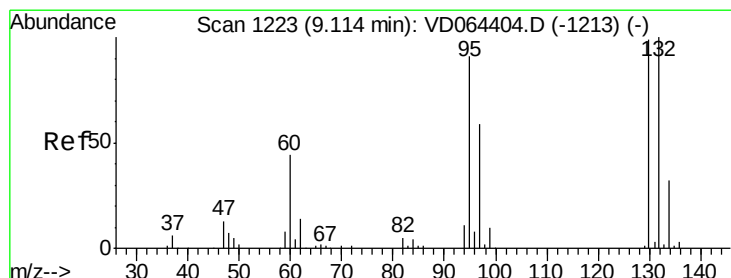
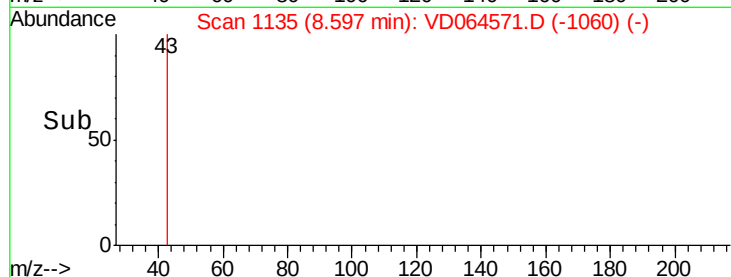
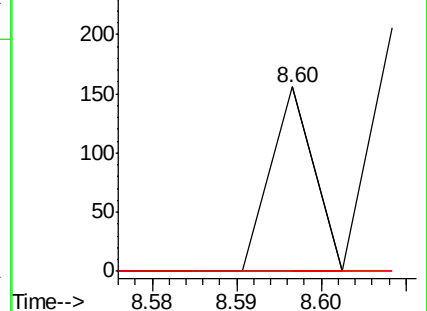
87 0.0 10.6 15.8#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 61.00 (60.70 to 61.70): VDC

Ion 87.00 (86.70 to 87.70): VDC



#44

Trichloroethene

Concen: 44.781 ug/l

RT: 9.10 min Scan# 1221

Delta R.T. -0.01 min

Lab File: VD064571.D

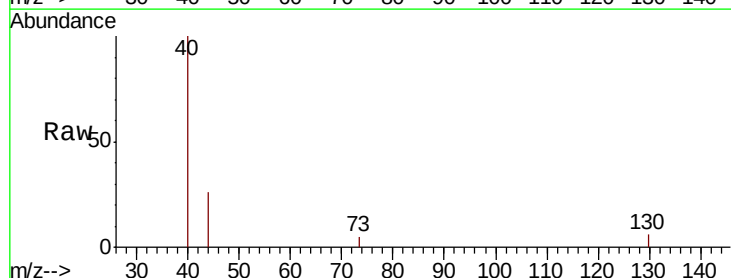
Acq: 23 Dec 2019 16:31

Tgt Ion: 130 Resp: 73

Ion Ratio Lower Upper

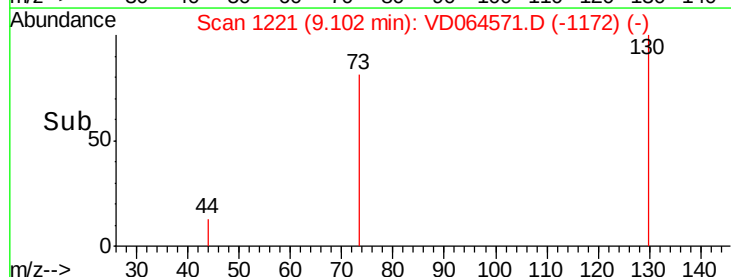
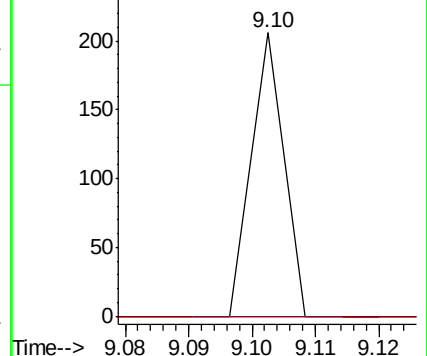
130 100

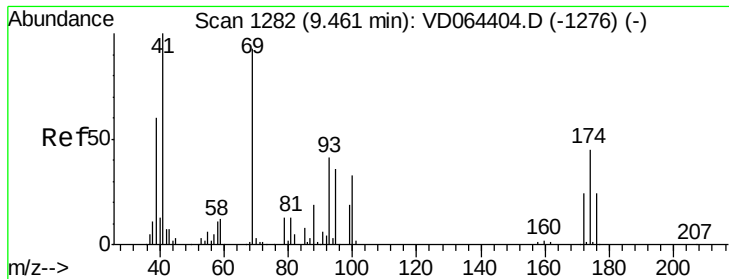
95 0.0 0.0 184.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VDC

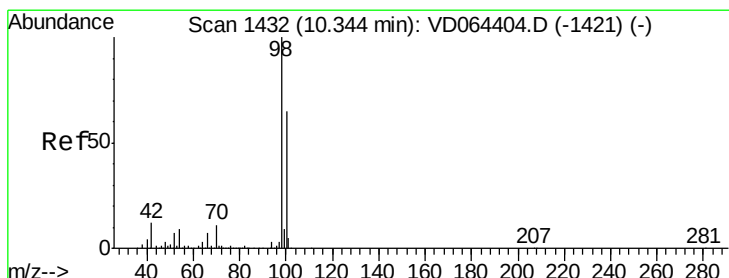
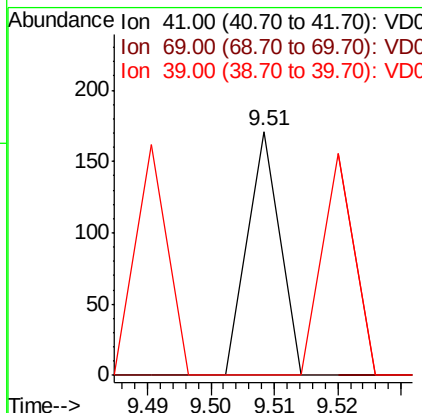
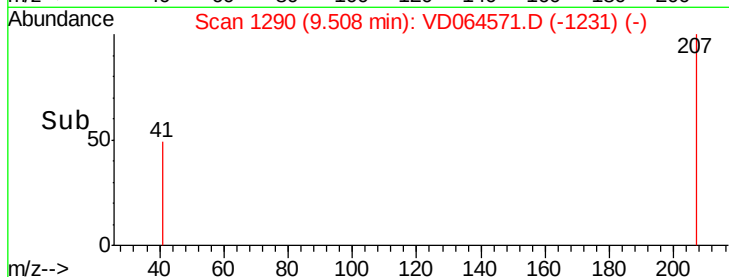
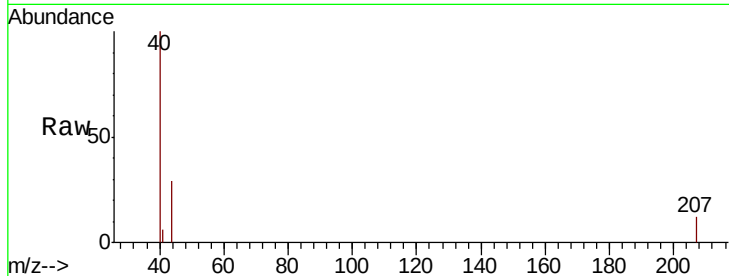




#48
Methvl methacrylate
Concen: 80.660 ug/l
RT: 9.51 min Scan# 1290
Delta R.T. 0.05 min
Lab File: VD064571.D
Acq: 23 Dec 2019 16:31

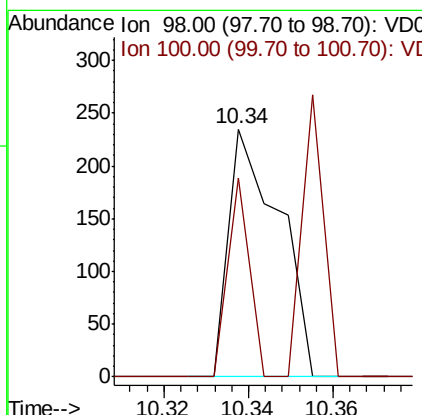
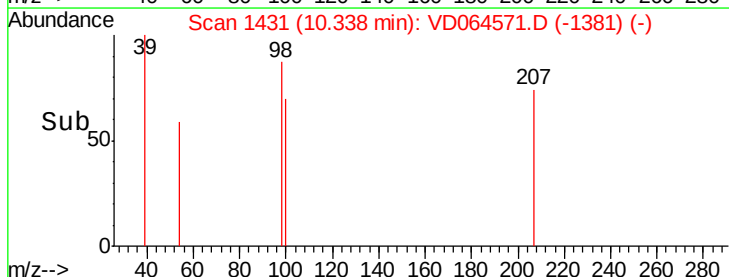
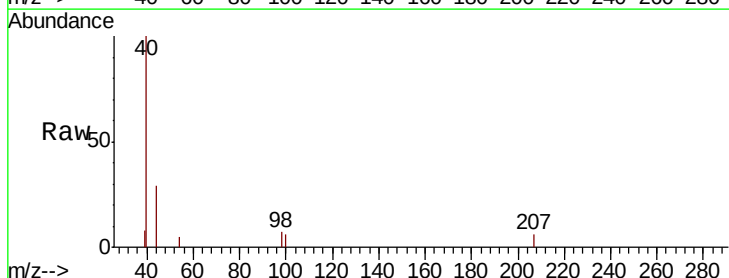
Instrument :
MSVOA_D
ClientSampleId :
SB-5-(0-2)

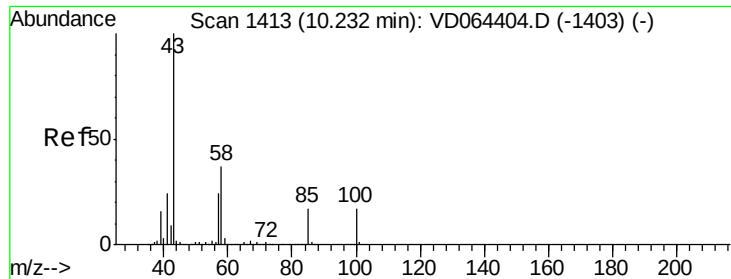
Tot Ion: 41 Resp: 60
Ion Ratio Lower Upper
41 100
69 0.0 72.0 108.0#
39 91.7 55.2 82.8#



#50
Toluene-d8
Concen: 39.885 ug/l
RT: 10.34 min Scan# 1431
Delta R.T. -0.01 min
Lab File: VD064571.D
Acq: 23 Dec 2019 16:31

Tgt Ion: 98 Resp: 195
Ion Ratio Lower Upper
98 100
100 33.8 52.6 79.0#

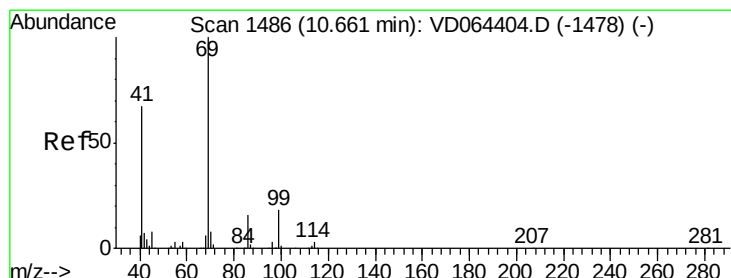
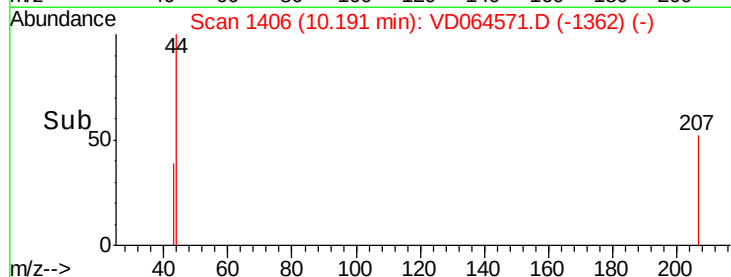
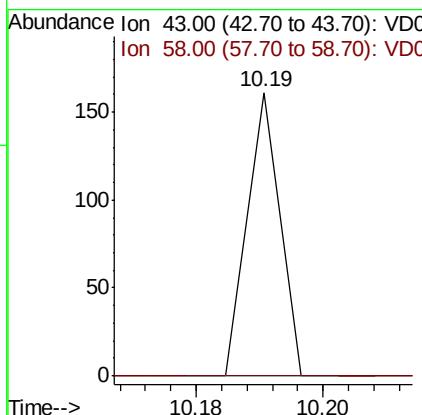
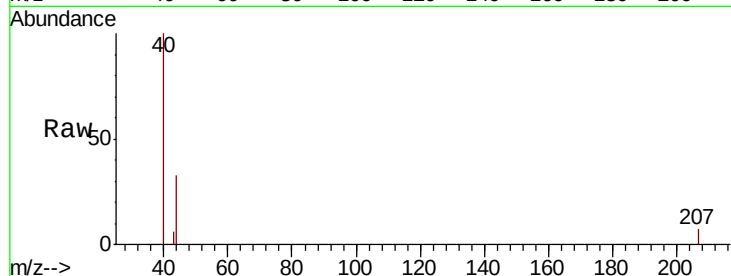




#51
4-Methyl-2-Pentanone
Concen: 70.866 ug/l
RT: 10.19 min Scan# 1406
Delta R.T. -0.04 min
Lab File: VD064571.D
Acq: 23 Dec 2019 16:31

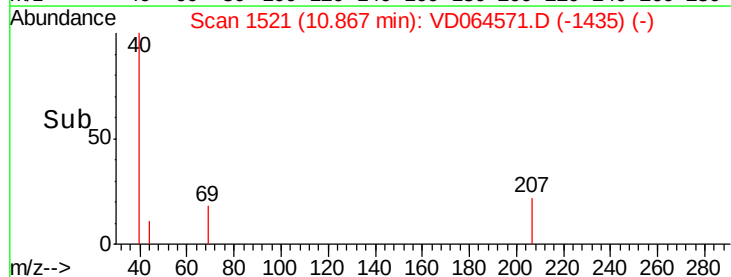
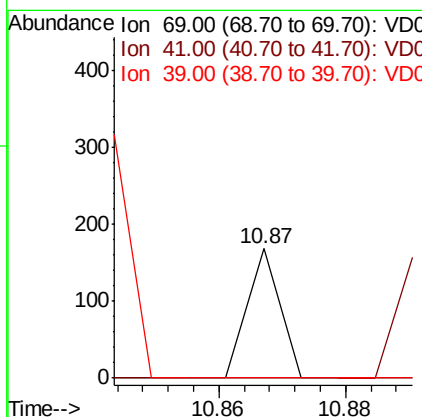
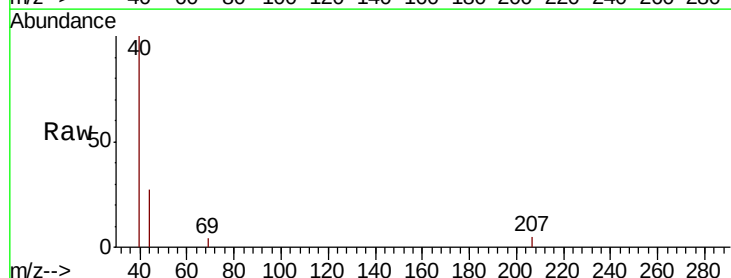
Instrument :
MSVOA_D
ClientSampleId :
SB-5-(0-2)

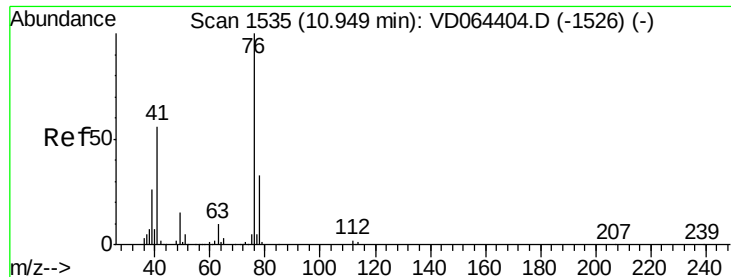
Tot Ion: 43 Resp: 57
Ion Ratio Lower Upper
43 100
58 0.0 30.6 46.0#



#56
Ethyl methacrylate
Concen: 46.248 ug/l
RT: 10.87 min Scan# 1521
Delta R.T. 0.21 min
Lab File: VD064571.D
Acq: 23 Dec 2019 16:31

Tgt Ion: 69 Resp: 59
Ion Ratio Lower Upper
69 100
41 0.0 55.0 82.4#
39 0.0 33.0 49.6#





#57

1,3-Dichloropropane

Concen: 34.652 ug/l

RT: 10.92 min Scan# 1530

Delta R.T. -0.03 min

Lab File: VD064571.D

Acq: 23 Dec 2019 16:31

Instrument :

MSVOA_D

ClientSampleId :

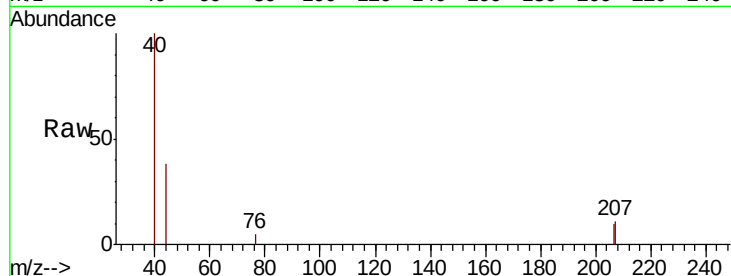
SB-5-(0-2)

Tot Ion: 76 Resp: 59

Ion Ratio Lower Upper

76 100

78 0.0 26.0 39.0#



Abundance Ion 75.90 (75.60 to 76.60): VDC

Ion 77.90 (77.60 to 78.60): VDC

10.92

150

100

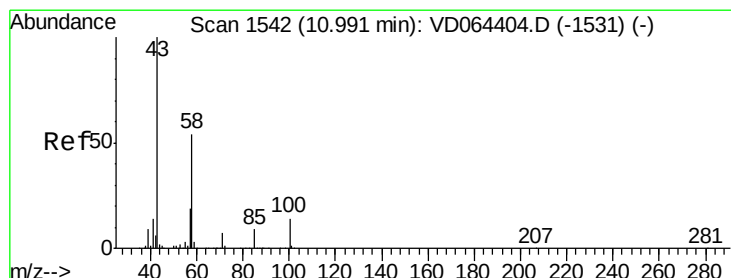
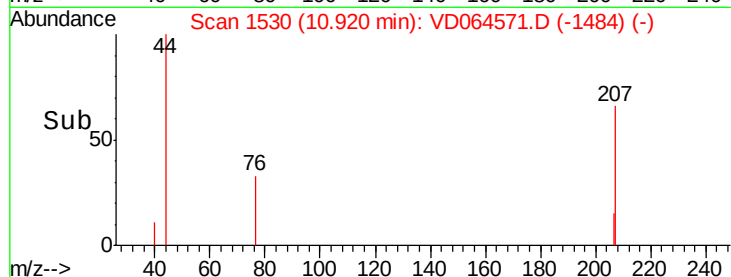
50

0

10.90

10.92

Time-->



#59

2-Hexanone

Concen: 111.087 ug/l

RT: 10.98 min Scan# 1541

Delta R.T. -0.01 min

Lab File: VD064571.D

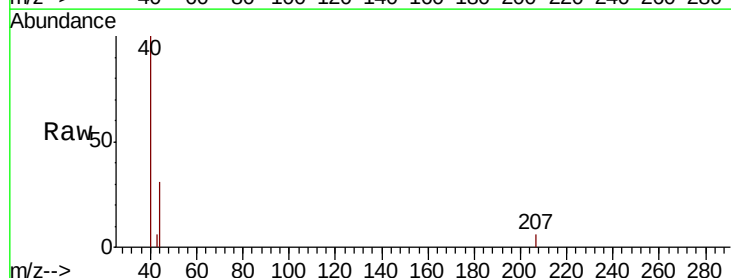
Acq: 23 Dec 2019 16:31

Tgt Ion: 43 Resp: 62

Ion Ratio Lower Upper

43 100

58 0.0 26.3 78.8#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

10.98

200

150

100

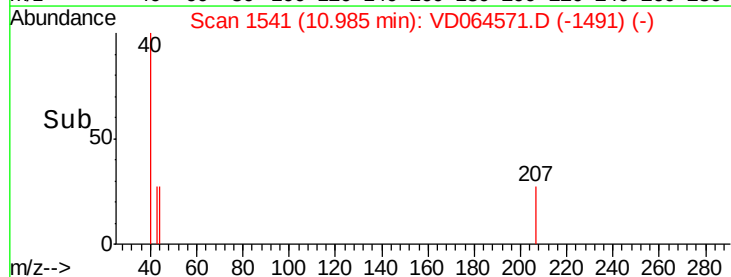
50

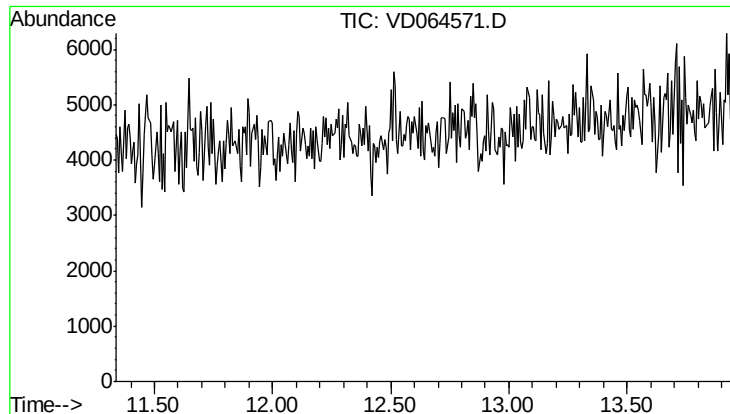
0

10.98

11.00

Time-->

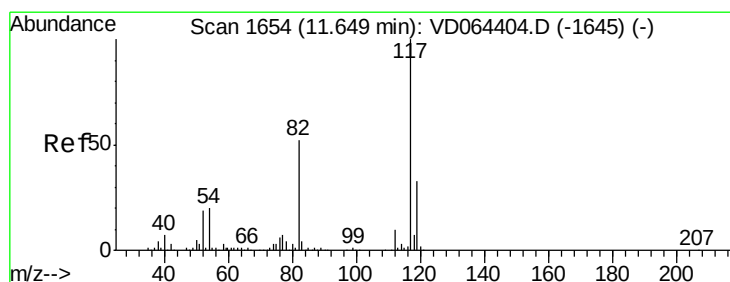
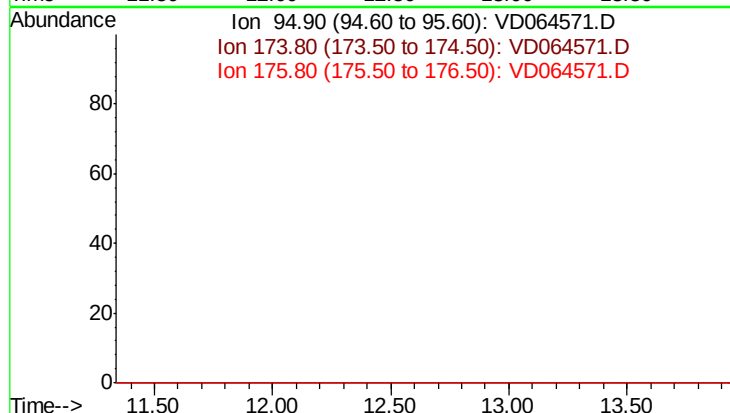




#62
 4-Bromofluorobenzene
 Concen: 0.000 ug/l
 Expected RT: 12.64 min
 Lab File: VD064571.D
 Acq: 23 Dec 2019 16:31

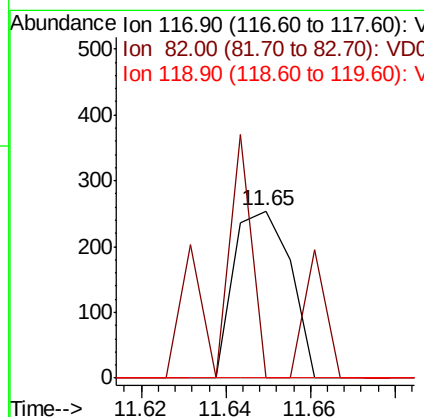
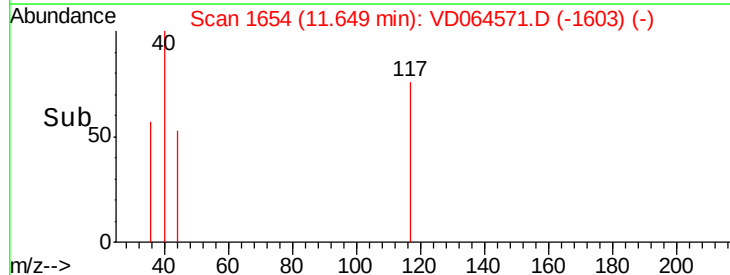
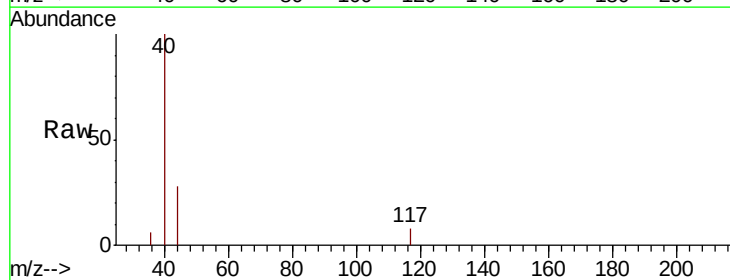
Instrument :
 MSVOA_D
 ClientSampleId :
 SB-5-(0-2)

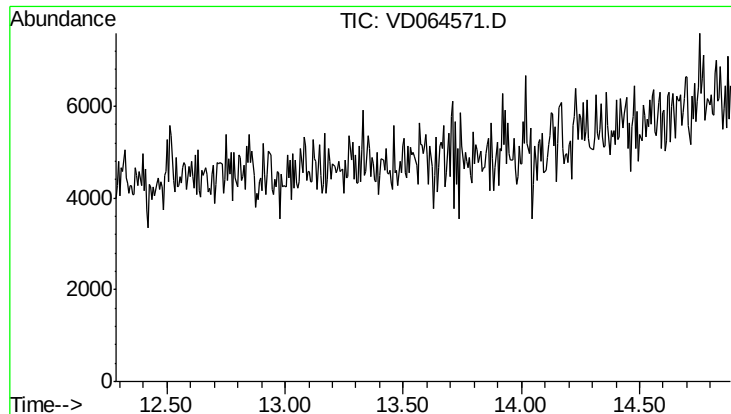
Tot Ion: 95
 Sig Exp Ratio
 95 100
 174 98.6
 176 94.8



#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 11.65 min Scan# 1654
 Delta R.T. -0.00 min
 Lab File: VD064571.D
 Acq: 23 Dec 2019 16:31

Tgt Ion: 117 Resp: 236
 Ion Ratio Lower Upper
 117 100
 82 0.0 41.4 62.2#
 119 0.0 26.2 39.2#





#72
 1,4-Dichlorobenzene-d4
 Concen: 0.000 ug/l
 Expected RT: 13.58 min
 Lab File: VD064571.D
 Acq: 23 Dec 2019 16:31

Instrument :
 MSVOA_D
 ClientSampleId :
 SB-5-(0-2)

Tot Ion: 152

Sig	Exp Ratio
152	100
115	53.4
150	173.6

