

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD101819\
 Data File : VD064013.D
 Acq On : 18 Oct 2019 16:46
 Operator : VA/SY
 Sample : K5150-01
 Misc : 6.96G/5.00ml/MSVOA D/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Oct 19 01:40:28 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D100219S.M
 Quant Title : SW846 8260
 QLast Update : Sat Oct 05 03:51:17 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	3148	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.86	114	5256	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	4815	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	1555	50.00	ug/l	0.01

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.33	65	2761	90.09	ug/l	0.00
Spiked Amount	50.000		Recovery	=	180.18%	
35) Dibromofluoromethane	7.91	113	2219	69.08	ug/l	0.00
Spiked Amount	50.000		Recovery	=	138.16%	
50) Toluene-d8	10.34	98	6537	50.14	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.28%	
62) 4-Bromofluorobenzene	12.64	95	1802	39.77	ug/l	0.01
Spiked Amount	50.000		Recovery	=	79.54%	

Target Compounds						Qvalue
3) Chloromethane	2.21	50	652	7.049	ug/l #	40
4) Vinyl Chloride	2.36	62	82	1.136	ug/l #	43
5) Bromomethane	2.57	94	61	1.315	ug/l #	5
6) Chloroethane	2.90	64	130	2.724	ug/l #	46
7) Trichlorofluoromethane	3.41	101	200	2.096	ug/l #	18
8) Diethyl Ether	3.66	74	57	3.723	ug/l	91
9) 1,1,2-Trichlorotrifluoroet	4.31	101	59	2.234	ug/l #	1
11) Tert butyl alcohol	5.24	59	59	20.342	ug/l #	71
12) 1,1-Dichloroethene	3.93	96	113	4.283	ug/l #	1
13) Acrolein	3.88	56	58	21.189	ug/l #	17
14) Allyl chloride	4.71	41	56	1.277	ug/l #	1
15) Acrylonitrile	5.26	53	64	9.480	ug/l #	60
16) Acetone	4.20	43	98	12.282	ug/l #	42
18) Methyl Acetate	4.74	43	165	10.572	ug/l #	49
19) Methyl tert-butyl Ether	5.49	73	76	1.112	ug/l #	53
20) Methylene Chloride	5.23	84	58	Below Cal	#	7
21) trans-1,2-Dichloroethene	5.45	96	61	1.857	ug/l #	55
22) Diisopropyl ether	6.36	45	103	1.150	ug/l #	38
23) Vinyl Acetate	6.30	43	143	2.683	ug/l #	71
24) 1,1-Dichloroethane	6.04	63	93	1.685	ug/l #	82
25) 2-Butanone	7.24	43	54	5.710	ug/l #	51
26) 2,2-Dichloropropane	7.06	77	56	1.122	ug/l #	53
27) cis-1,2-Dichloroethene	7.11	96	60	1.614	ug/l #	1
28) Bromochloromethane	7.56	49	67	4.939	ug/l #	10
29) Tetrahydrofuran	7.56	42	151	27.357	ug/l #	31
31) Cyclohexane	8.06	56	63	Below Cal	#	12
32) 1,1,1-Trichloroethane	8.03	97	57	1.109	ug/l #	24
36) 1,1-Dichloropropene	8.18	75	129	2.684	ug/l #	41
37) Ethyl Acetate	7.24	43	54	Below Cal	#	1
38) Carbon Tetrachloride	7.98	117	91	1.874	ug/l #	15
39) Methylcyclohexane	9.14	83	65	1.100	ug/l #	18
41) Methacrylonitrile	7.52	41	67	6.013	ug/l #	1
42) 1,2-Dichloroethane	8.41	62	75	1.883	ug/l #	73
43) Isopropyl Acetate	8.43	43	60	1.489	ug/l #	49

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

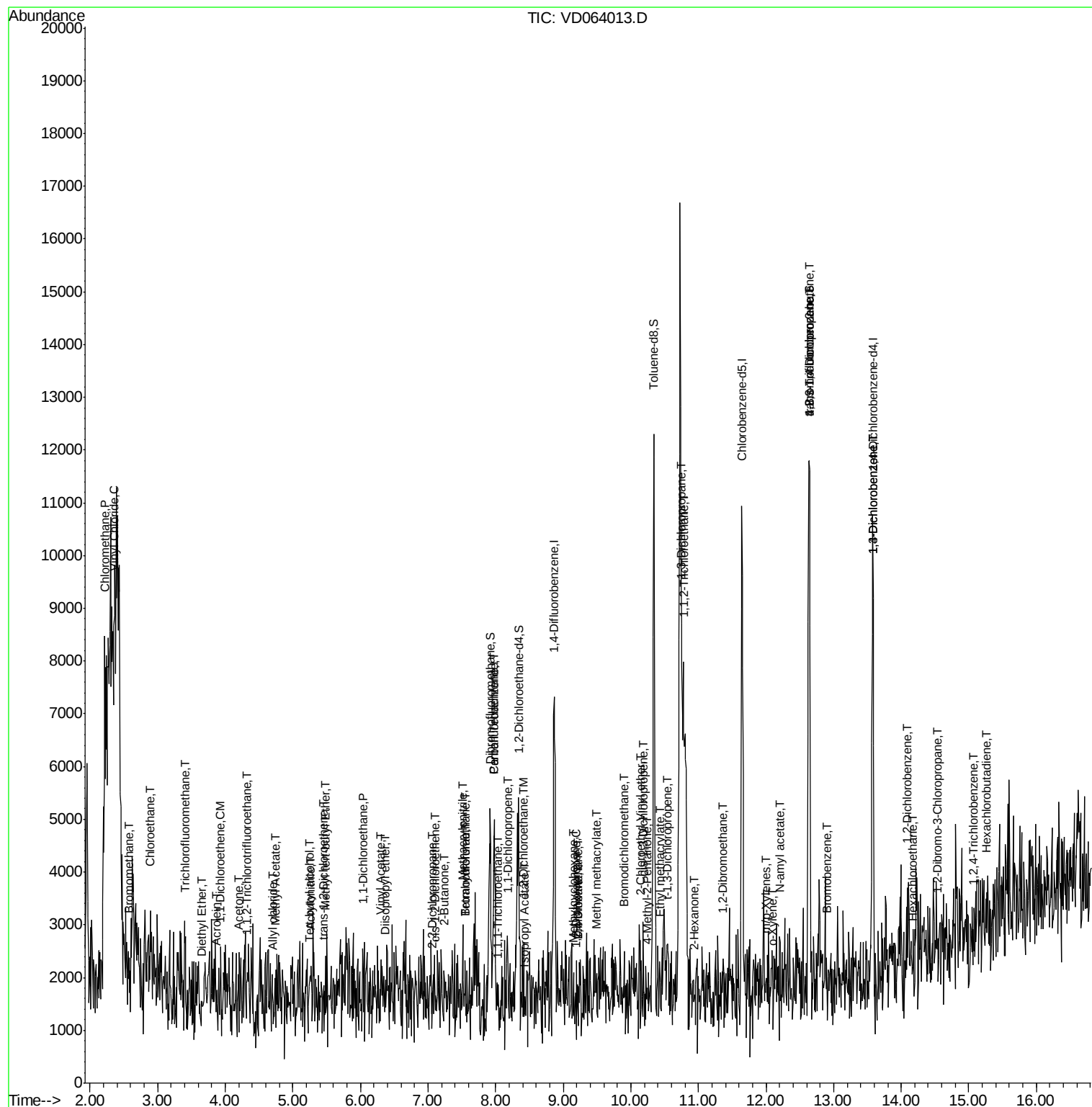
45) 1,2-Dichloropropane	9.18	63	138	4.094	ug/l #	41
46) Dibromomethane	9.21	93	94	4.897	ug/l #	3
47) Bromodichloromethane	9.90	83	175	3.541	ug/l #	26
48) Methyl methacrylate	9.48	41	155	8.027	ug/l #	26
49) 1,4-Dioxane	9.21	88	72	274.765	ug/l #	24
51) 4-Methyl-2-Pentanone	10.24	43	194	9.282	ug/l	87
53) t-1,3-Dichloropropene	10.54	75	71	1.472	ug/l #	50
54) cis-1,3-Dichloropropene	10.18	75	67	1.207	ug/l #	33
55) 1,1,2-Trichloroethane	10.78	97	61	2.250	ug/l #	14
56) Ethyl methacrylate	10.43	69	64	1.865	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	68	1.466	ug/l #	41
58) 2-Chloroethyl Vinyl ether	10.13	63	57	3.863	ug/l #	44
59) 2-Hexanone	10.94	43	98	6.482	ug/l	75
61) 1,2-Dibromoethane	11.37	107	88	3.349	ug/l #	3
68) m/p-Xylenes	12.00	106	71	1.055	ug/l #	1
69) o-Xylene	12.10	106	68	1.055	ug/l #	1
74) N-amyl acetate	12.20	43	187	8.309	ug/l #	41
76) 1,2,3-Trichloropropane	12.63	75	1165	111.858	ug/l #	100
77) Bromobenzene	12.90	156	67	2.573	ug/l #	1
81) trans-1,4-Dichloro-2-buten	12.63	75	1165	197.944	ug/l #	12
87) 1,3-Dichlorobenzene	13.59	146	75	1.457	ug/l #	26
88) 1,4-Dichlorobenzene	13.59	146	75	1.477	ug/l #	25
90) Hexachloroethane	14.17	117	68	3.812	ug/l #	9
91) 1,2-Dichlorobenzene	14.09	146	63	1.421	ug/l #	26
92) 1,2-Dibromo-3-Chloropropan	14.54	75	61	20.114	ug/l #	1
93) 1,2,4-Trichlorobenzene	15.07	180	57	1.666	ug/l #	12
94) Hexachlorobutadiene	15.26	225	61	3.230	ug/l #	31

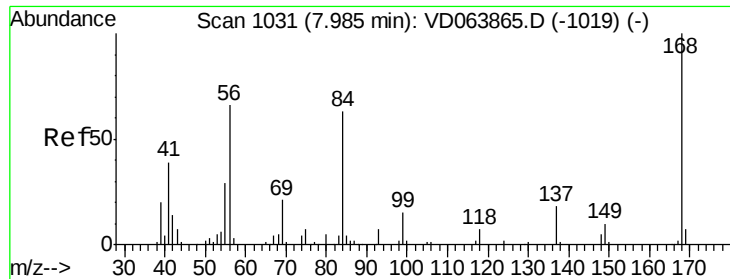
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.01 min

Lab File: VD064013.D

Acq: 18 Oct 2019 16:46

Instrument :

MSVOA_D

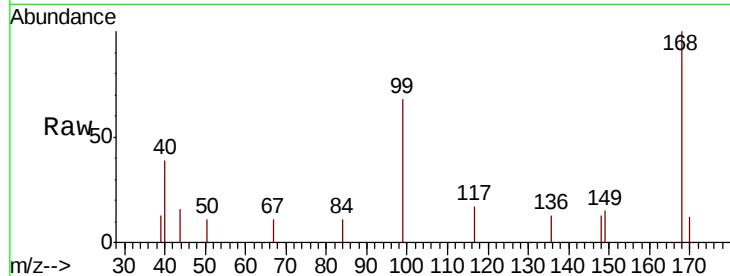
ClientSampled :

Tot Ion:168 Resp: 3148

Ion Ratio Lower Upper

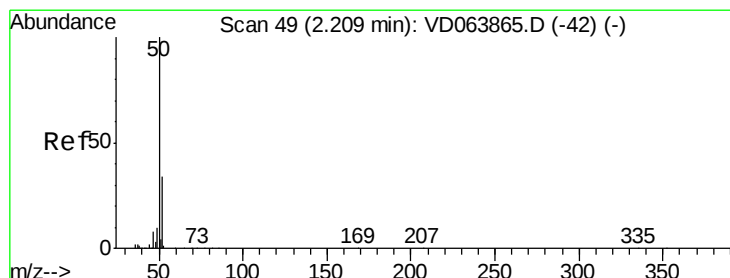
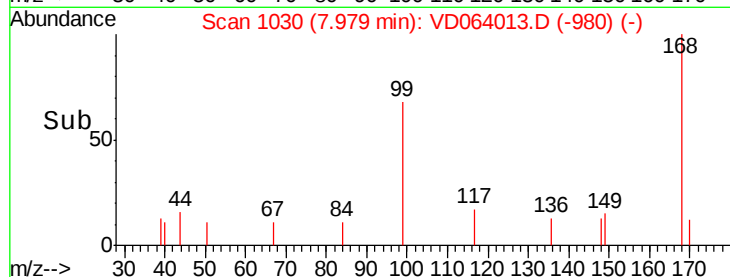
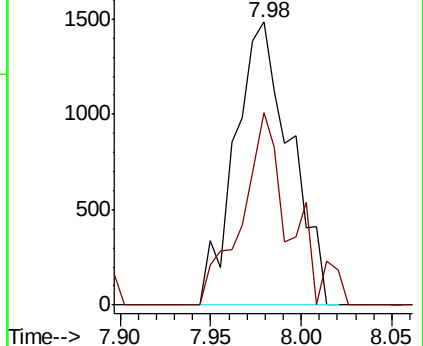
168 100

99 68.0 43.0 64.4#



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#3

Chloromethane

Concen: 7.049 ug/l

RT: 2.21 min Scan# 50

Delta R.T. 0.01 min

Lab File: VD064013.D

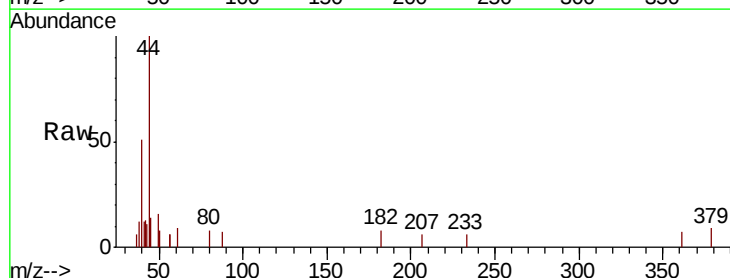
Acq: 18 Oct 2019 16:46

Tgt Ion: 50 Resp: 652

Ion Ratio Lower Upper

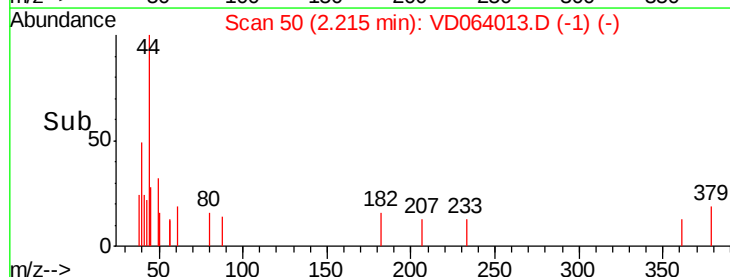
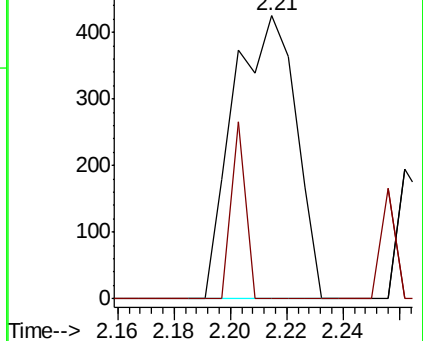
50 100

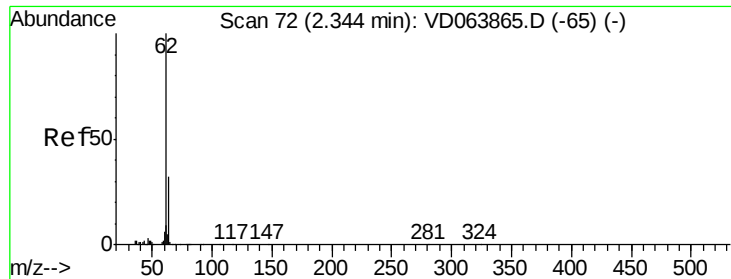
52 0.0 27.5 41.3#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC

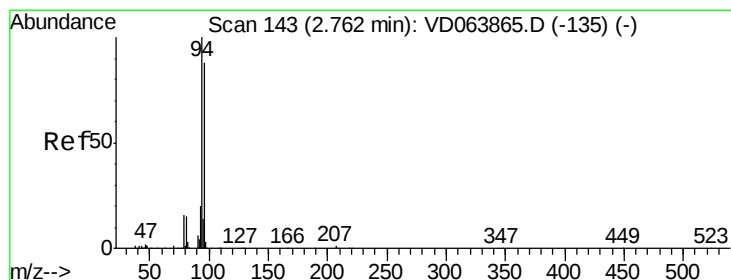
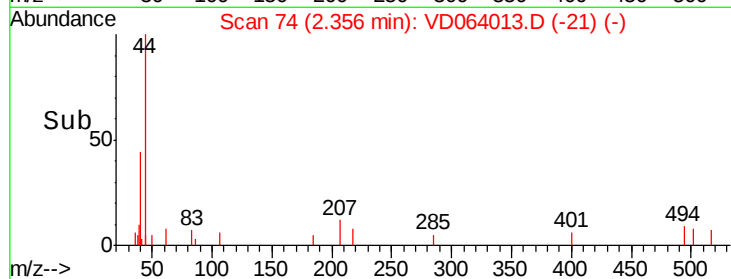
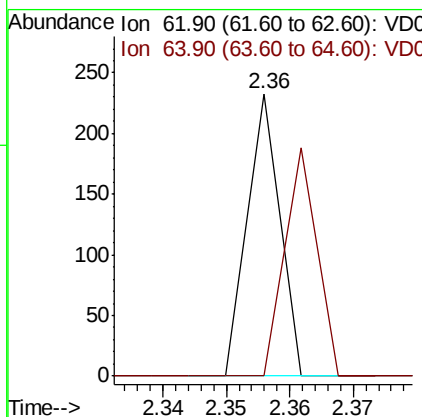
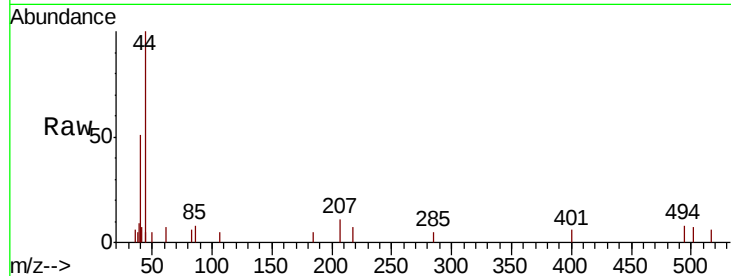




#4
 Vinyl Chloride
 Concen: 1.136 ug/l
 RT: 2.36 min Scan# 74
 Delta R.T. 0.01 min
 Lab File: VD064013.D
 Acq: 18 Oct 2019 16:46

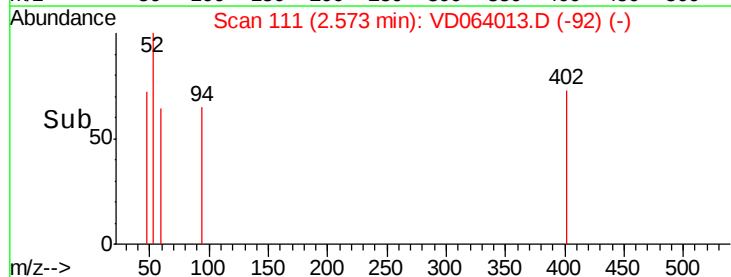
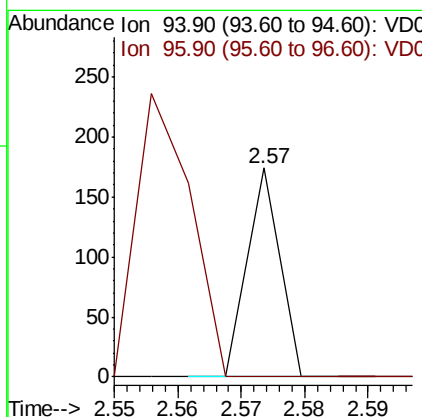
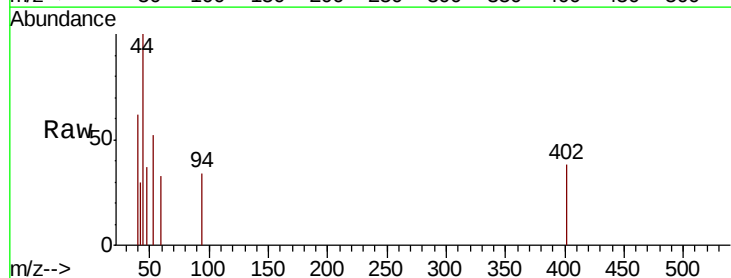
Instrument :
 MSVOA_D
 ClientSampleID :

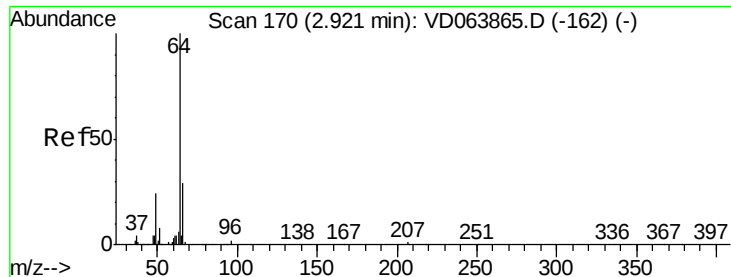
Tot Ion: 62 Resp: 82
 Ion Ratio Lower Upper
 62 100
 64 0.0 25.4 38.0#



#5
 Bromomethane
 Concen: 1.315 ug/l
 RT: 2.57 min Scan# 111
 Delta R.T. -0.19 min
 Lab File: VD064013.D
 Acq: 18 Oct 2019 16:46

Tgt Ion: 94 Resp: 61
 Ion Ratio Lower Upper
 94 100
 96 0.0 70.8 106.2#





#6

Chloroethane

Concen: 2.724 ug/l

RT: 2.90 min Scan# 166

Delta R.T. -0.02 min

Lab File: VD064013.D

Acq: 18 Oct 2019 16:46

Instrument :

MSVOA_D

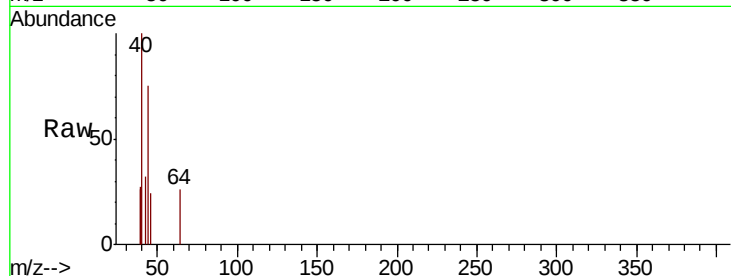
ClientSampleId :

Tot Ion: 64 Resp: 130

Ion Ratio Lower Upper

64 100

66 0.0 23.0 34.4#



Abundance Ion 63.90 (63.60 to 64.60): VDC

Ion 65.90 (65.60 to 66.60): VDC

2.90

200

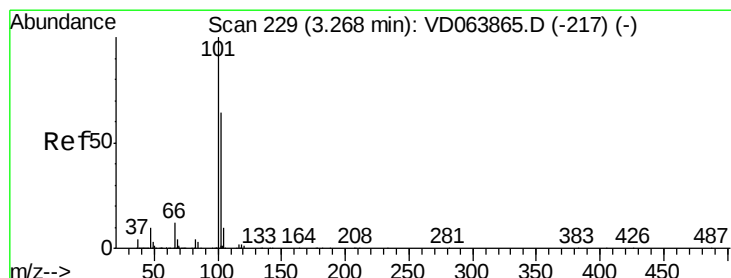
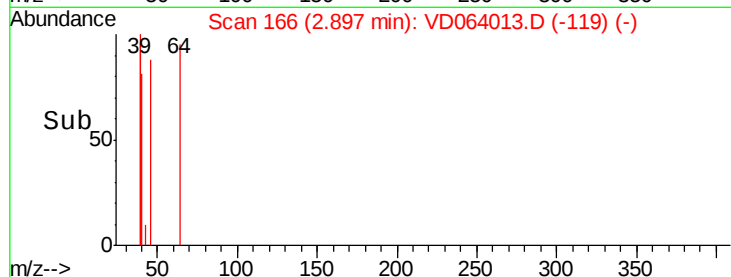
150

100

50

0

Time-->



#7

Trichlorofluoromethane

Concen: 2.096 ug/l

RT: 3.41 min Scan# 253

Delta R.T. 0.14 min

Lab File: VD064013.D

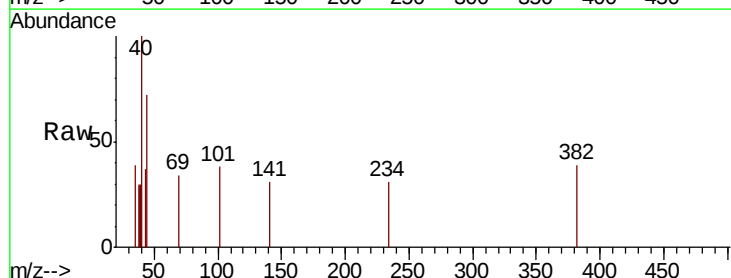
Acq: 18 Oct 2019 16:46

Tgt Ion: 101 Resp: 200

Ion Ratio Lower Upper

101 100

103 0.0 51.1 76.7#



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 102.80 (102.50 to 103.50): V

3.41

200

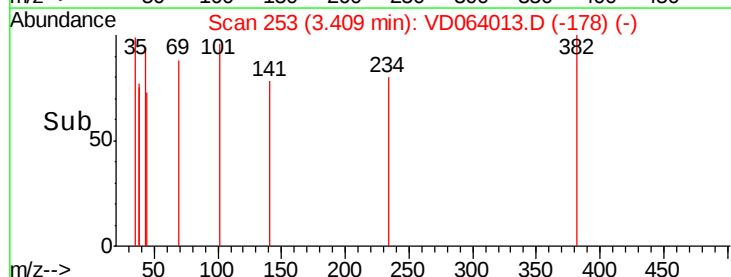
150

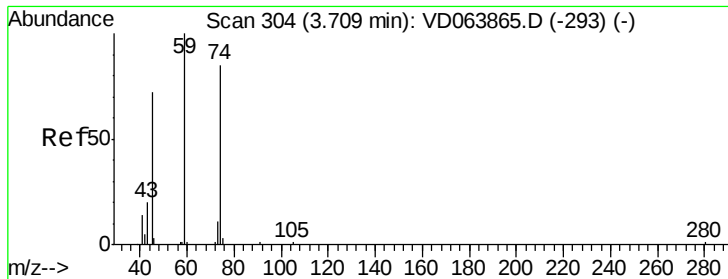
100

50

0

Time-->





#8

Diethyl Ether

Concen: 3.723 ug/l

RT: 3.66 min Scan# 296

Delta R.T. -0.05 min

Lab File: VD064013.D

Acq: 18 Oct 2019 16:46

Instrument :

MSVOA_D

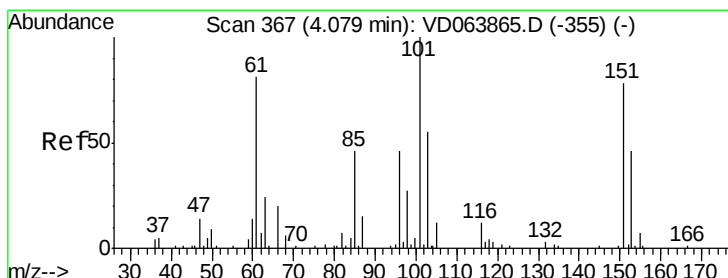
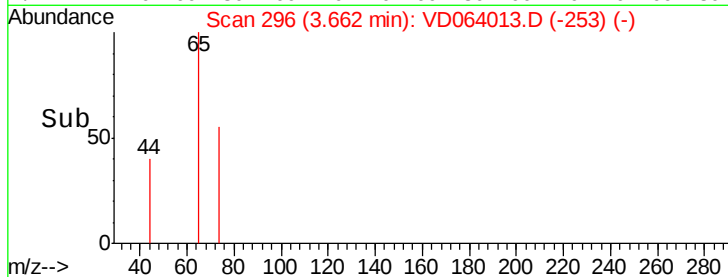
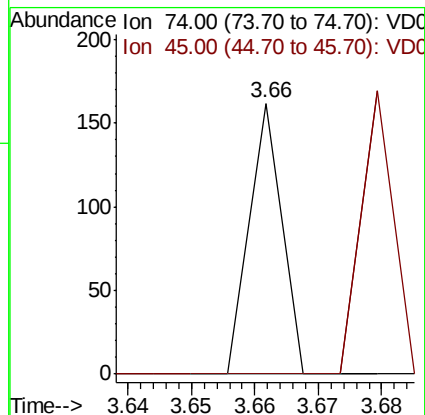
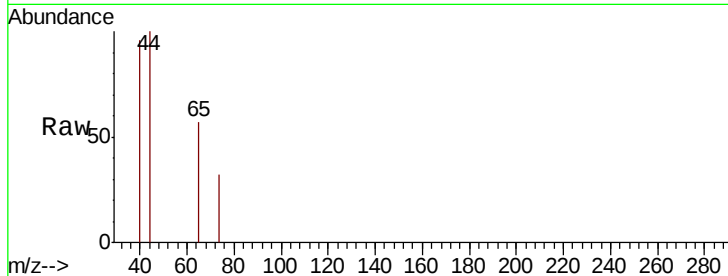
ClientSampleId :

Tot Ion: 74 Resp: 57

Ion Ratio Lower Upper

74 100

45 105.3 48.1 144.4



#9

1,1,2-Trichlorotrifluoroethane

Concen: 2.234 ug/l

RT: 4.31 min Scan# 407

Delta R.T. 0.24 min

Lab File: VD064013.D

Acq: 18 Oct 2019 16:46

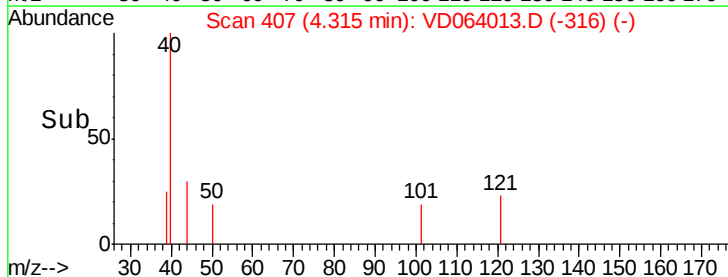
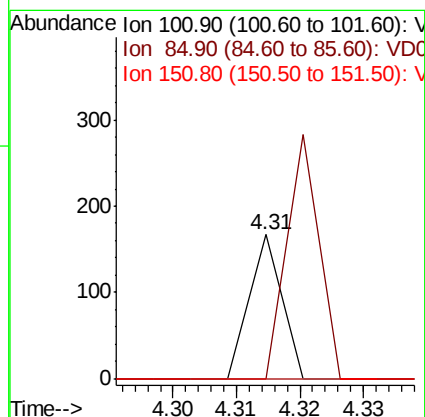
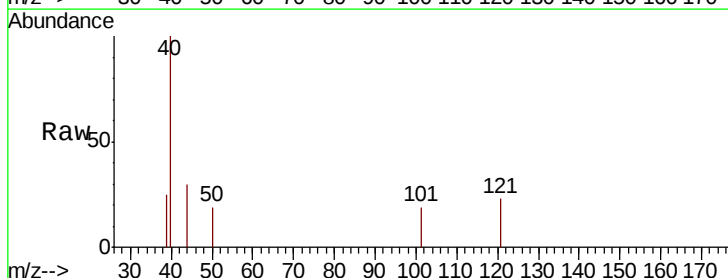
Tgt Ion: 101 Resp: 59

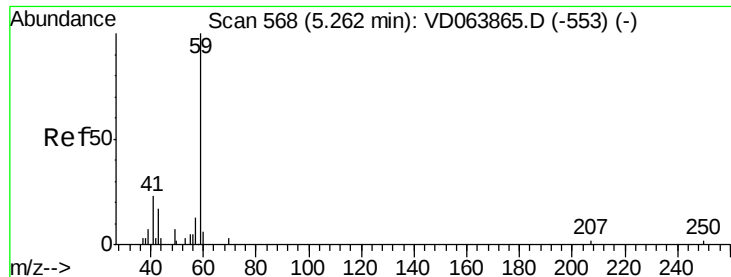
Ion Ratio Lower Upper

101 100

85 169.5 37.5 56.3#

151 0.0 65.5 98.3#



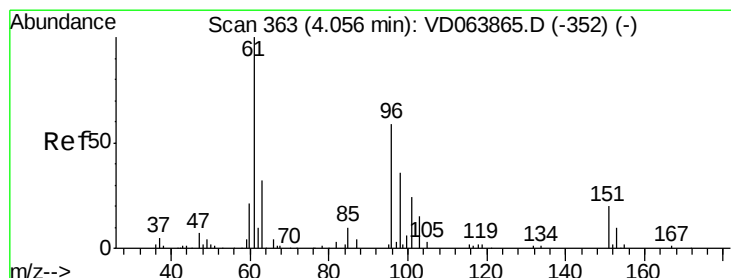
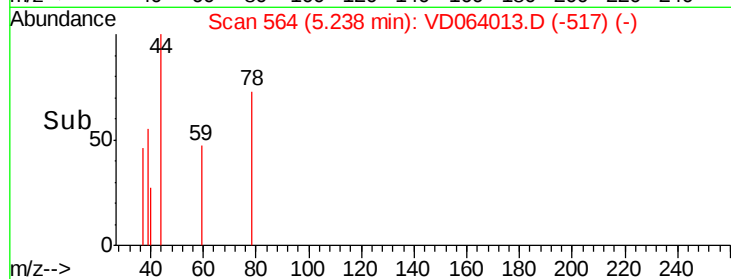
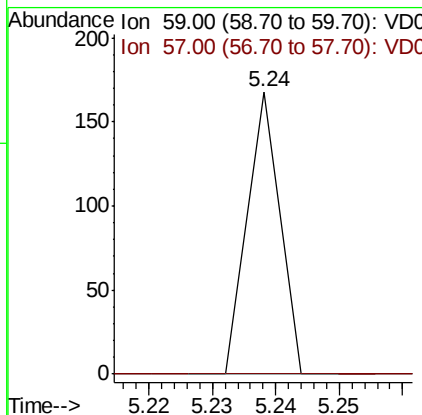
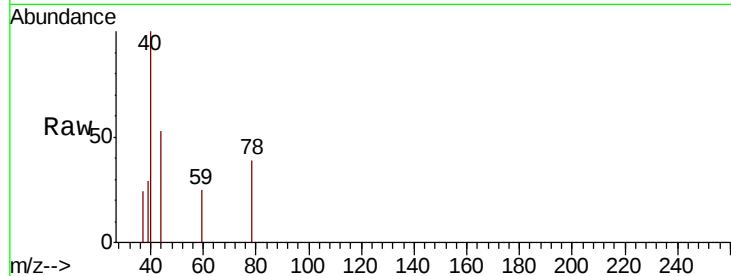


#11

Tert butyl alcohol
 Concen: 20.342 ug/l
 RT: 5.24 min Scan# 564
 Delta R.T. -0.02 min
 Lab File: VD064013.D
 Acq: 18 Oct 2019 16:46

Instrument :
 MSVOA_D
 ClientSampleId :

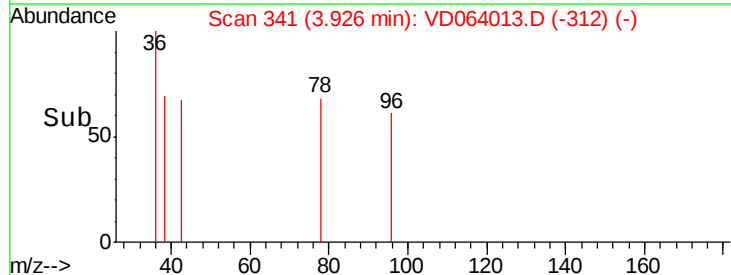
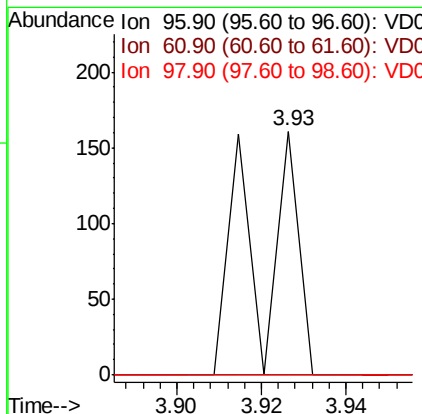
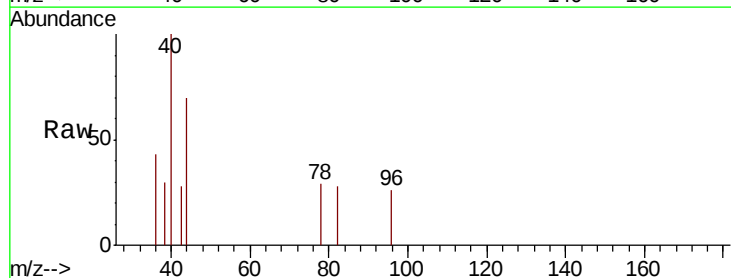
Tot Ion: 59 Resp: 59
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.8 13.2#

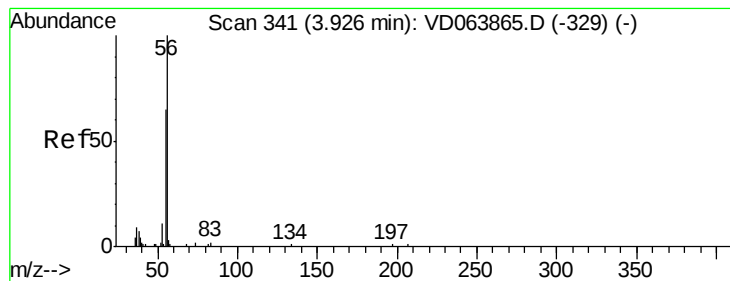


#12

1,1-Dichloroethene
 Concen: 4.283 ug/l
 RT: 3.93 min Scan# 341
 Delta R.T. -0.13 min
 Lab File: VD064013.D
 Acq: 18 Oct 2019 16:46

Tgt Ion: 96 Resp: 113
 Ion Ratio Lower Upper
 96 100
 61 0.0 135.6 203.4#
 98 0.0 49.2 73.8#





#13

Acrolein

Concen: 21.189 ug/l

RT: 3.88 min Scan# 333

Delta R.T. -0.05 min

Lab File: VD064013.D

Acq: 18 Oct 2019 16:46

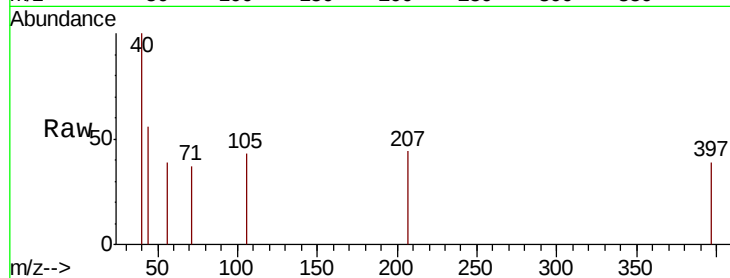
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 56 Resp: 58

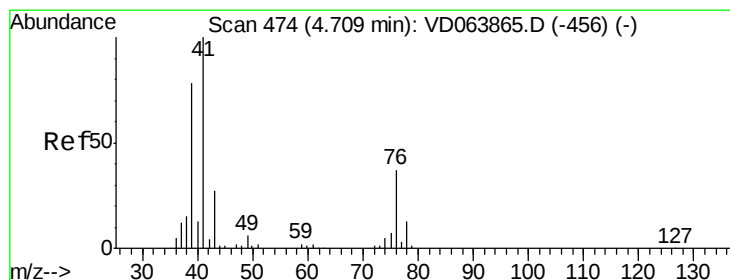
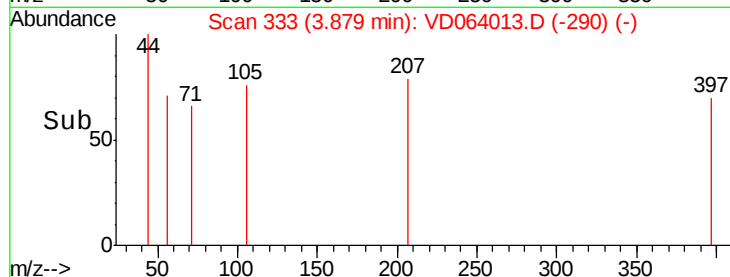
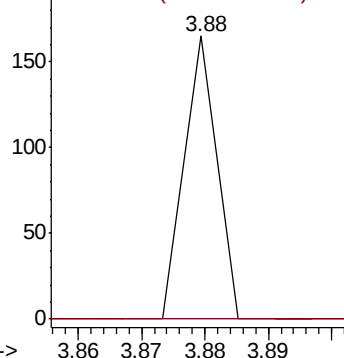
Ion Ratio Lower Upper

56 100

55 0.0 53.0 79.6#



Abundance Ion 56.00 (55.70 to 56.70): VDC
Ion 55.00 (54.70 to 55.70): VDC



#14

Allyl chloride

Concen: 1.277 ug/l

RT: 4.71 min Scan# 474

Delta R.T. -0.00 min

Lab File: VD064013.D

Acq: 18 Oct 2019 16:46

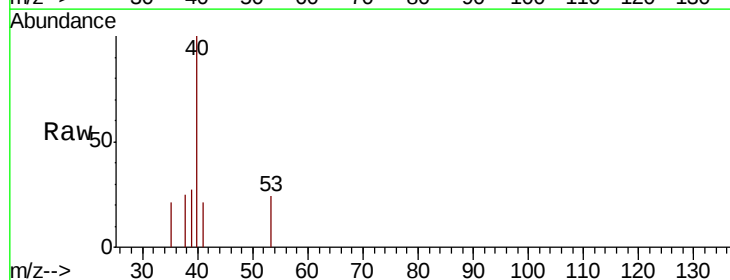
Tgt Ion: 41 Resp: 56

Ion Ratio Lower Upper

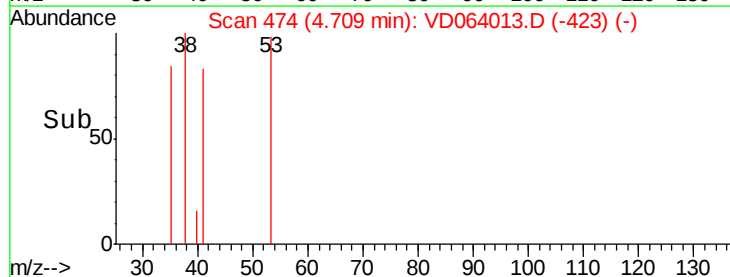
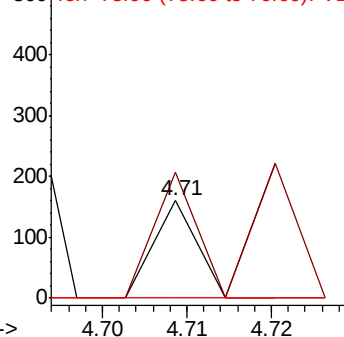
41 100

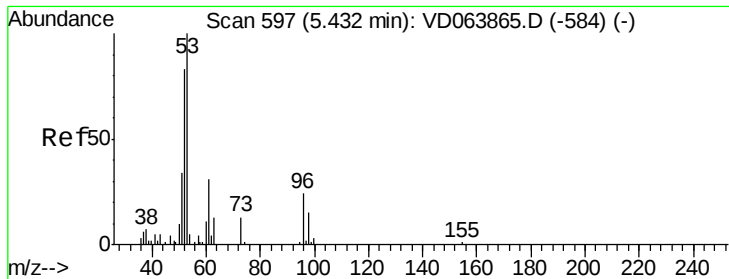
39 269.6 61.8 92.6#

76 0.0 31.3 46.9#



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





#15

Acrylonitrile

Concen: 9.480 ug/l

RT: 5.26 min Scan# 568

Delta R.T. -0.17 min

Lab File: VD064013.D

Acq: 18 Oct 2019 16:46

Instrument :

MSVOA_D

ClientSampleId :

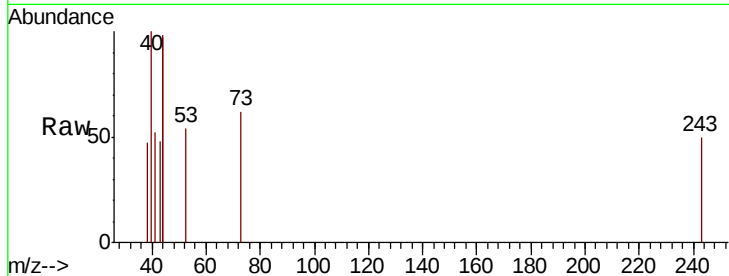
Tot Ion: 53 Resp: 64

Ion Ratio Lower Upper

53 100

52 110.9 67.3 100.9#

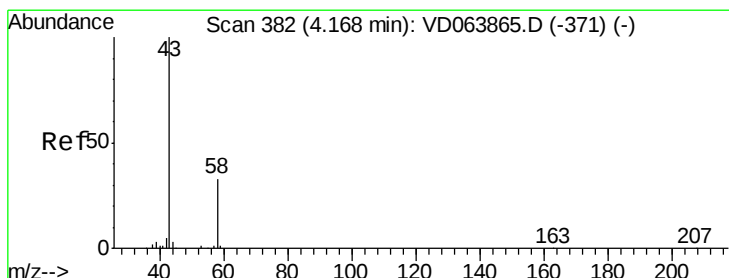
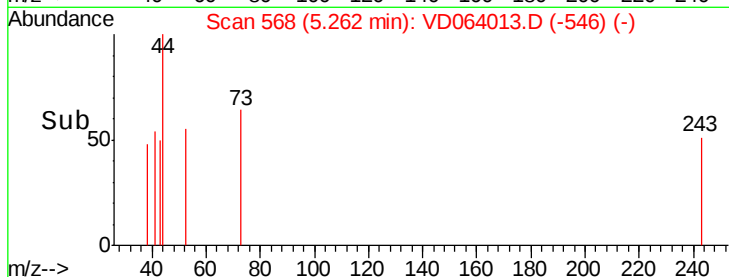
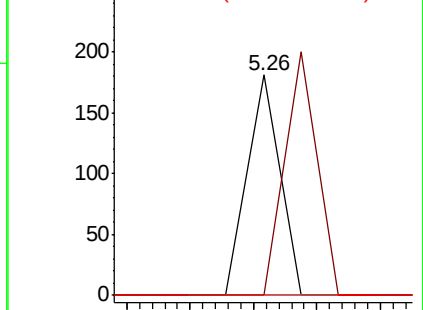
51 0.0 30.5 45.7#



Abundance Ion 53.00 (52.70 to 53.70): VDC

Ion 52.00 (51.70 to 52.70): VDC

Ion 51.00 (50.70 to 51.70): VDC



#16

Acetone

Concen: 12.282 ug/l

RT: 4.20 min Scan# 387

Delta R.T. 0.03 min

Lab File: VD064013.D

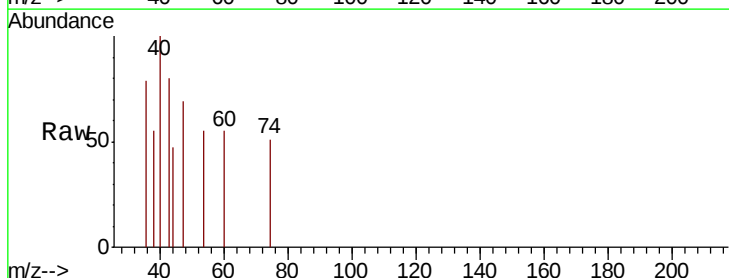
Acq: 18 Oct 2019 16:46

Tgt Ion: 43 Resp: 98

Ion Ratio Lower Upper

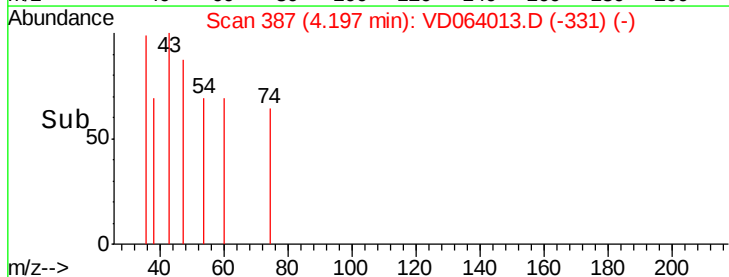
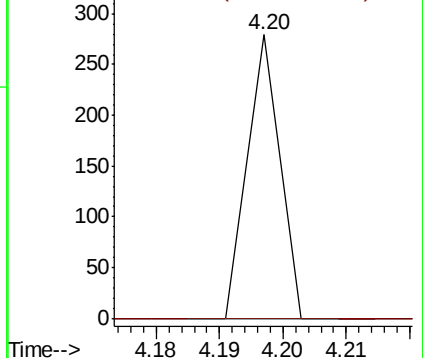
43 100

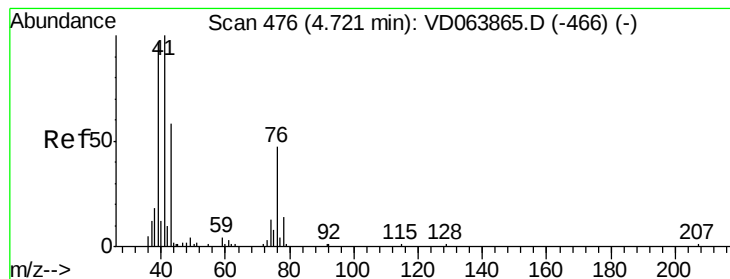
58 0.0 26.2 39.4#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC





#18

Methyl Acetate

Concen: 10.572 ug/l

RT: 4.74 min Scan# 480

Delta R.T. 0.02 min

Lab File: VD064013.D

Acq: 18 Oct 2019 16:46

Instrument :

MSVOA_D

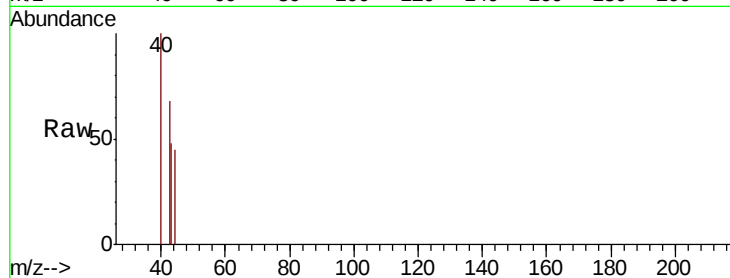
ClientSampleId :

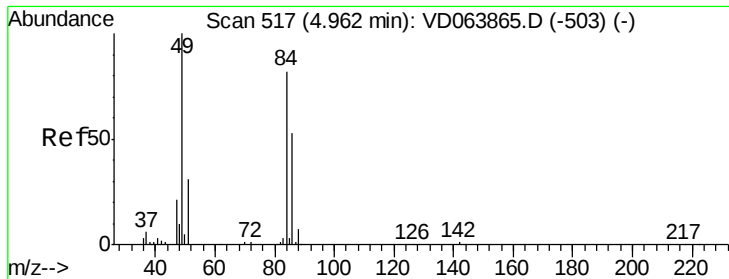
Tot Ion: 43 Resp: 165

Ion Ratio Lower Upper

43 100

74 0.0 20.8 31.2#

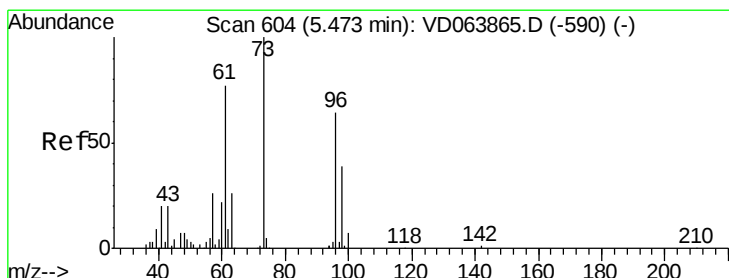
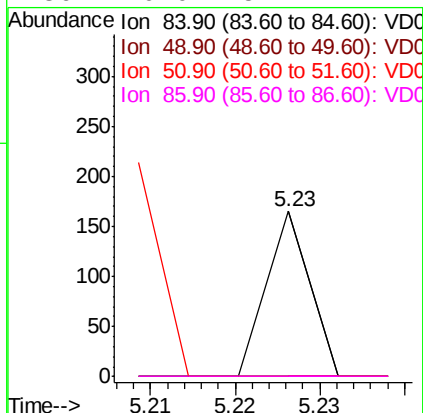
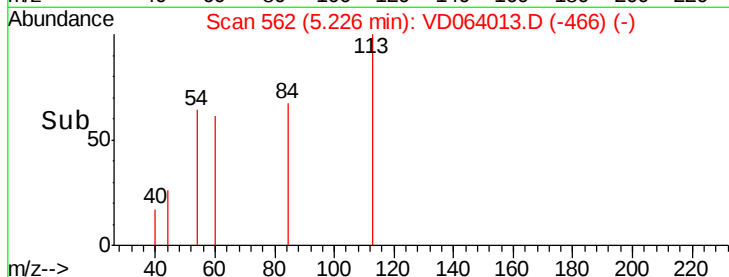
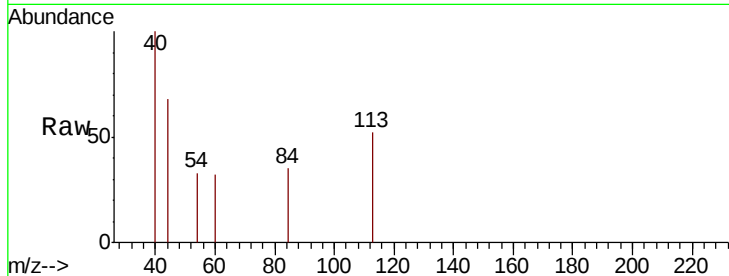




#20
Methvlene Chloride
Concen: Below Cal
RT: 5.23 min Scan# 562
Delta R.T. 0.27 min
Lab File: VD064013.D
Acq: 18 Oct 2019 16:46

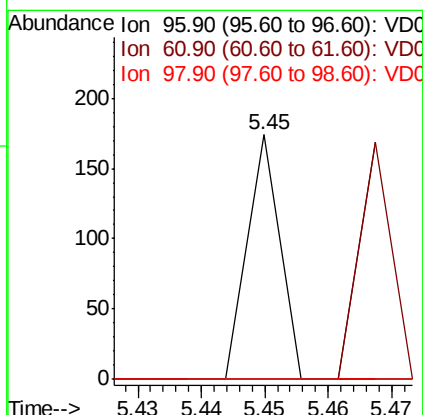
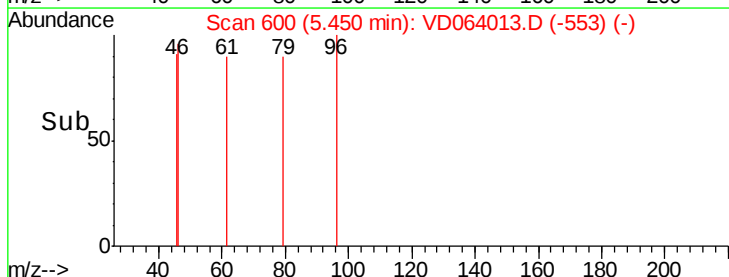
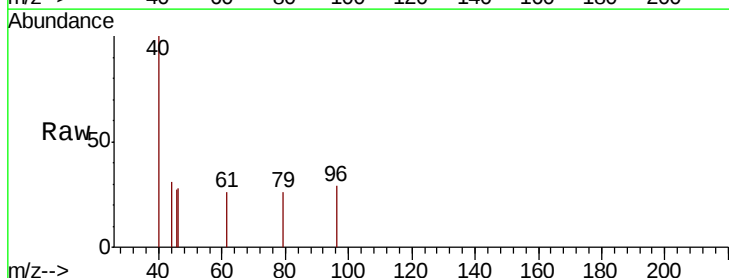
Instrument :
MSVOA_D
ClientSampleId :

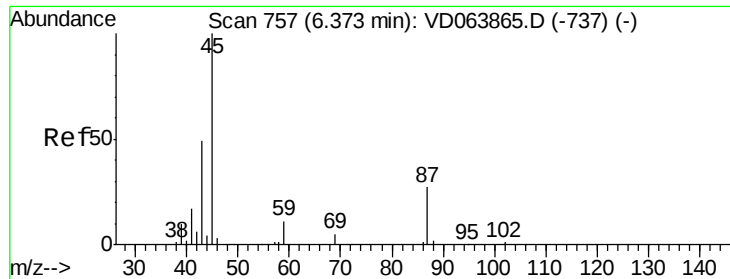
Tot Ion: 84 Resp: 58
Ion Ratio Lower Upper
84 100
49 0.0 97.3 145.9#
51 0.0 30.1 45.1#
86 0.0 51.4 77.2#



#21
trans-1,2-Dichloroethene
Concen: 1.857 ug/l
RT: 5.45 min Scan# 600
Delta R.T. -0.02 min
Lab File: VD064013.D
Acq: 18 Oct 2019 16:46

Tgt Ion: 96 Resp: 61
Ion Ratio Lower Upper
96 100
61 89.7 96.6 145.0#
98 0.0 48.7 73.1#

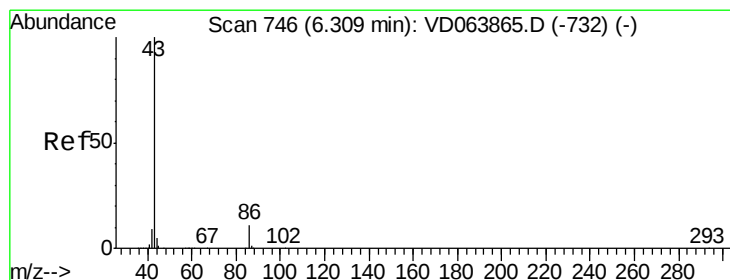
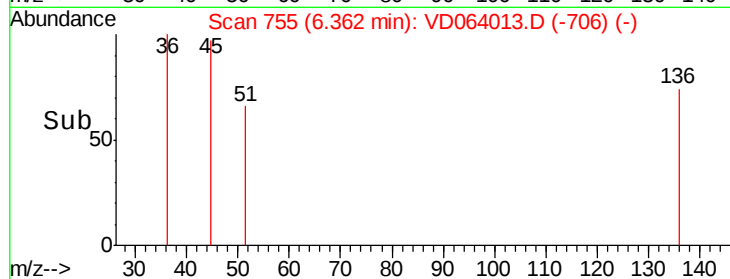
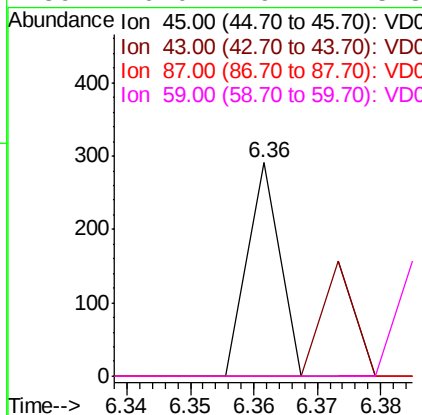
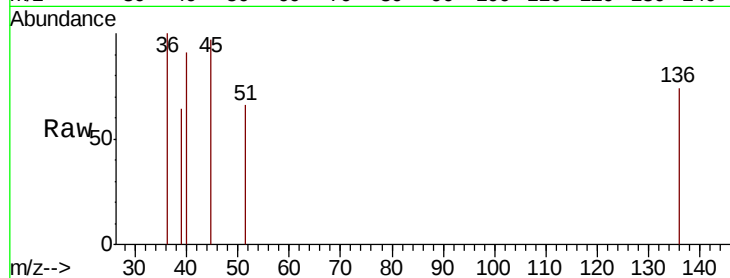




#22
Diisopropyl ether
Concen: 1.150 ug/l
RT: 6.36 min Scan# 755
Delta R.T. -0.01 min
Lab File: VD064013.D
Acq: 18 Oct 2019 16:46

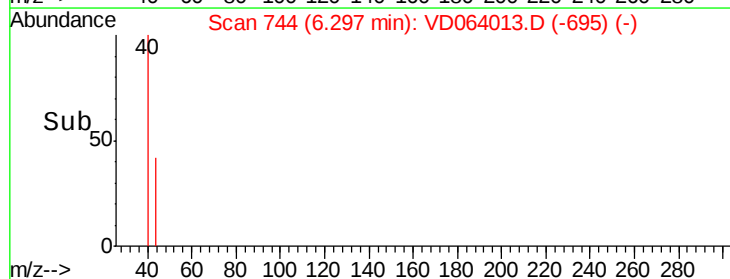
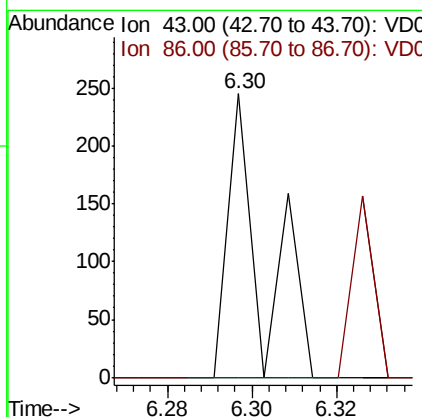
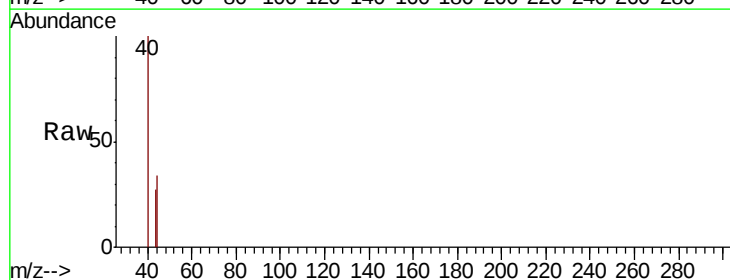
Instrument :
MSVOA_D
ClientSampleId :

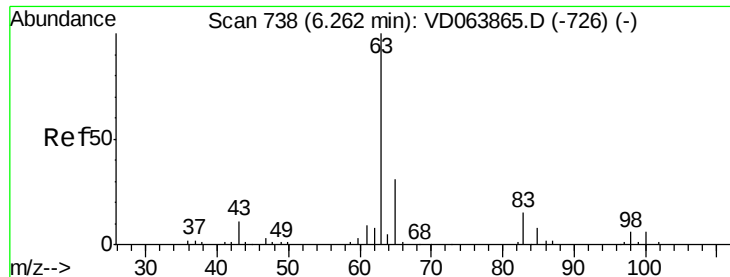
Tot Ion:	45	Resp:	103
Ion	Ratio	Lower	Upper
45	100		
43	0.0	41.2	61.8#
87	0.0	22.2	33.4#
59	0.0	9.2	13.8#



#23
Vinyl Acetate
Concen: 2.683 ug/l
RT: 6.30 min Scan# 744
Delta R.T. -0.01 min
Lab File: VD064013.D
Acq: 18 Oct 2019 16:46

Tgt Ion:	43	Resp:	143
Ion	Ratio	Lower	Upper
43	100		
86	0.0	8.8	13.2#





#24

1,1-Dichloroethane

Concen: 1.685 ug/l

RT: 6.04 min Scan# 701

Delta R.T. -0.22 min

Lab File: VD064013.D

Acq: 18 Oct 2019 16:46

Instrument :

MSVOA_D

ClientSampled :

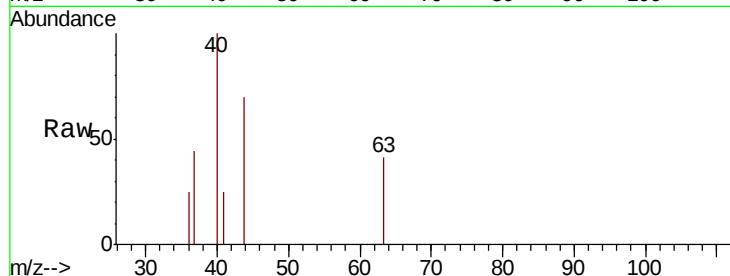
Tot Ion: 63 Resp: 93

Ion Ratio Lower Upper

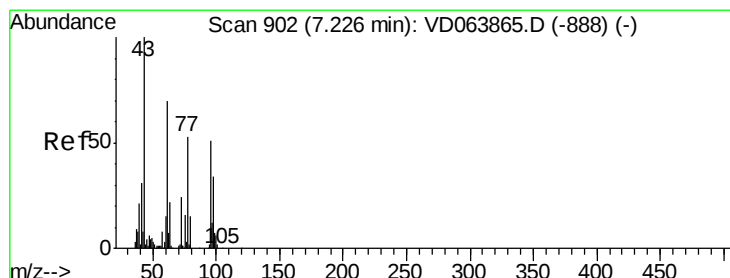
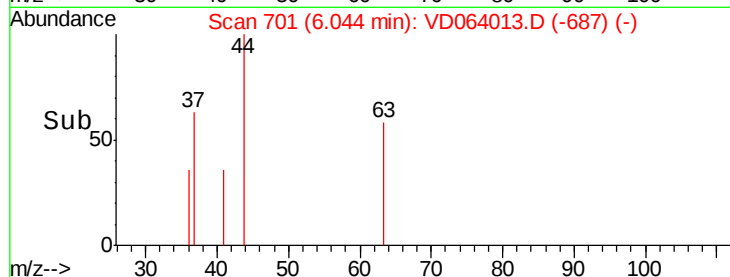
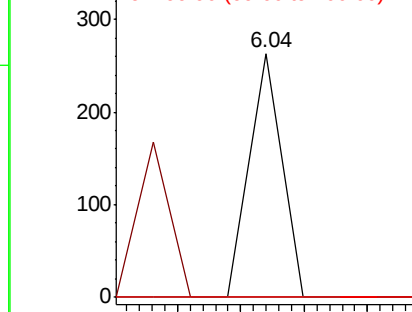
63 100

98 0.0 3.1 9.4#

100 0.0 3.0 9.2#



Abundance Ion 62.90 (62.60 to 63.60): VDC
Ion 97.90 (97.60 to 98.60): VDC
Ion 99.90 (99.60 to 100.60): VDC



#25

2-Butanone

Concen: 5.710 ug/l

RT: 7.24 min Scan# 905

Delta R.T. 0.02 min

Lab File: VD064013.D

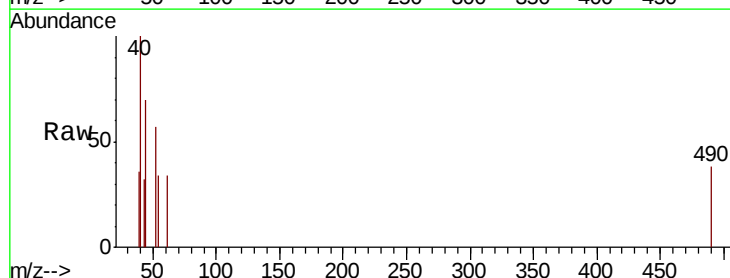
Acq: 18 Oct 2019 16:46

Tgt Ion: 43 Resp: 54

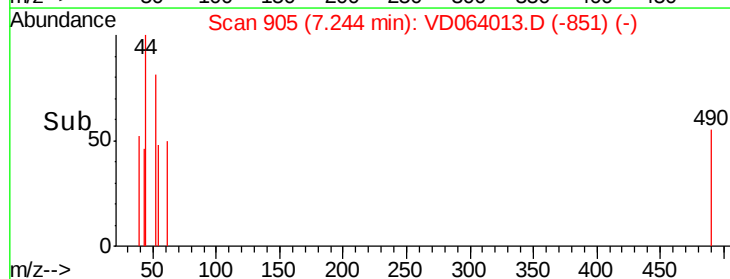
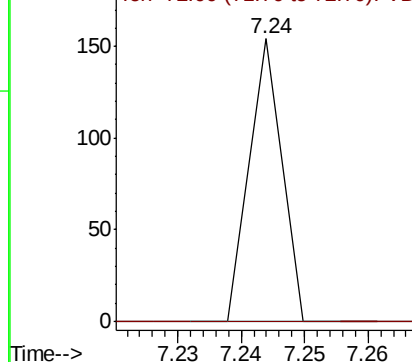
Ion Ratio Lower Upper

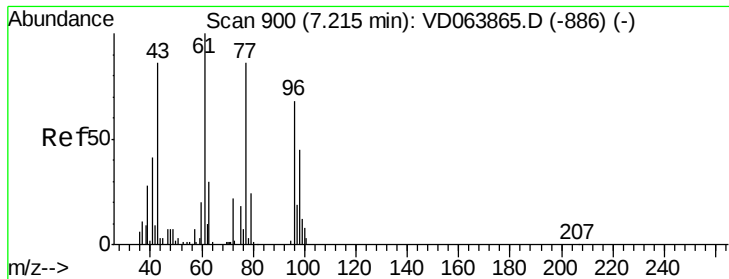
43 100

72 0.0 19.2 28.8#



Abundance Ion 43.00 (42.70 to 43.70): VDC
Ion 72.00 (71.70 to 72.70): VDC





#26

2,2-Dichloropropane

Concen: 1.122 ug/l

RT: 7.06 min Scan# 873

Delta R.T. -0.16 min

Lab File: VD064013.D

Acq: 18 Oct 2019 16:46

Instrument :

MSVOA_D

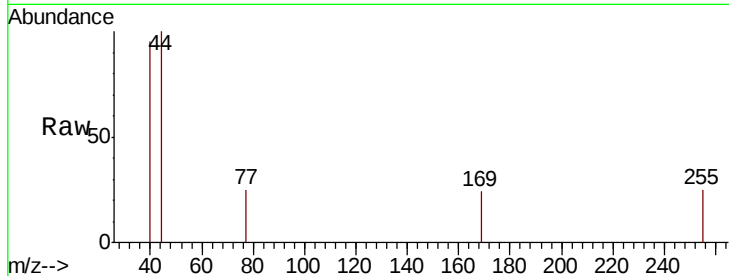
ClientSampleId :

Tot Ion: 77 Resp: 56

Ion Ratio Lower Upper

77 100

97 0.0 11.4 34.1#



Abundance Ion 76.90 (76.60 to 77.60): VDC

Ion 96.90 (96.60 to 97.60): VDC

200

150

100

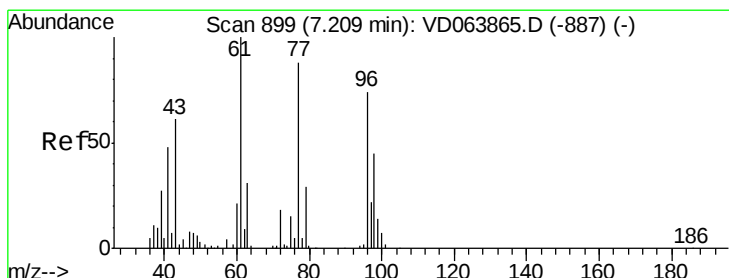
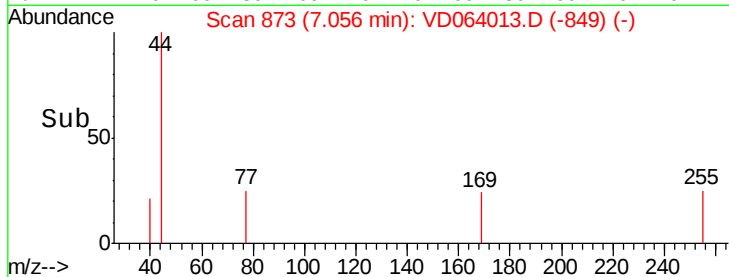
50

0

7.04 7.05 7.06 7.07

7.06

Time-->



#27

cis-1,2-Dichloroethene

Concen: 1.614 ug/l

RT: 7.11 min Scan# 882

Delta R.T. -0.10 min

Lab File: VD064013.D

Acq: 18 Oct 2019 16:46

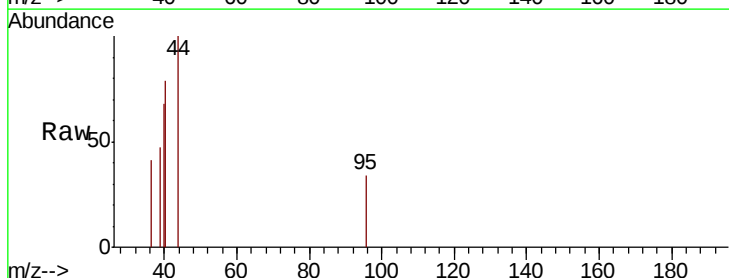
Tgt Ion: 96 Resp: 60

Ion Ratio Lower Upper

96 100

61 0.0 0.0 280.0

98 0.0 0.0 130.4



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

200

150

100

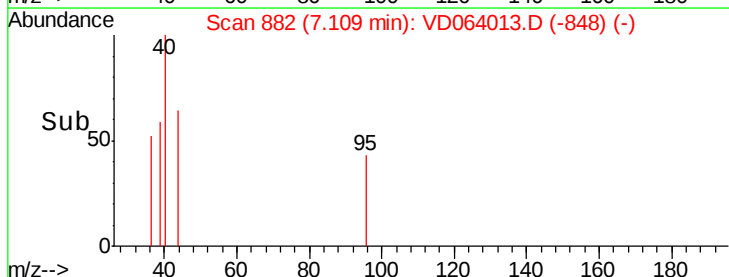
50

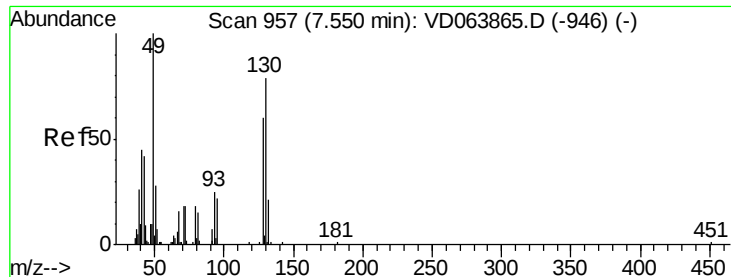
0

7.09 7.10 7.11 7.12

7.11

Time-->





#28

Bromochloromethane

Concen: 4.939 ug/l

RT: 7.56 min Scan# 958

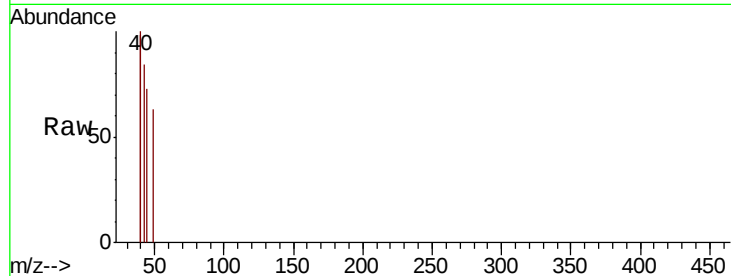
Delta R.T. 0.01 min

Lab File: VD064013.D

Acq: 18 Oct 2019 16:46

Instrument :
MSVOA_D
ClientSampleId :

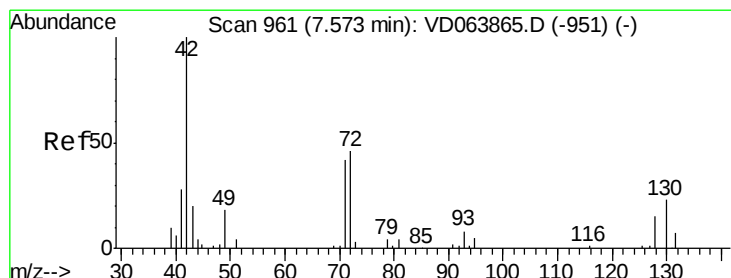
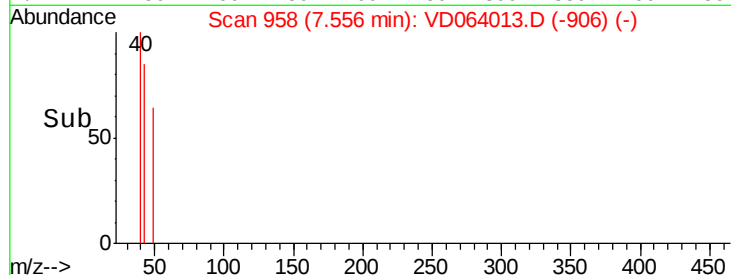
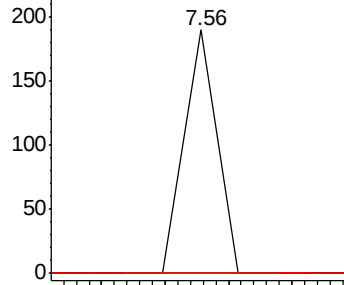
Tot Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	5.6
130	0.0	66.8	100.2#



Abundance Ion 48.90 (48.60 to 49.60): VDC

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V



#29

Tetrahydrofuran

Concen: 27.357 ug/l

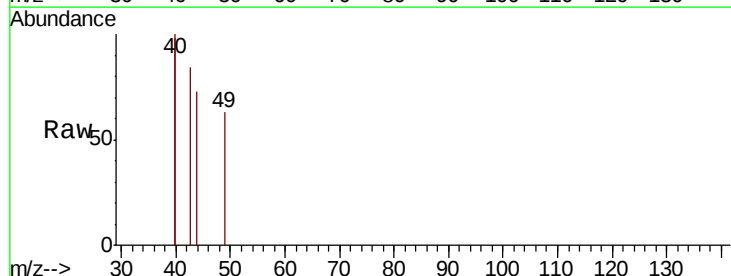
RT: 7.56 min Scan# 958

Delta R.T. -0.02 min

Lab File: VD064013.D

Acq: 18 Oct 2019 16:46

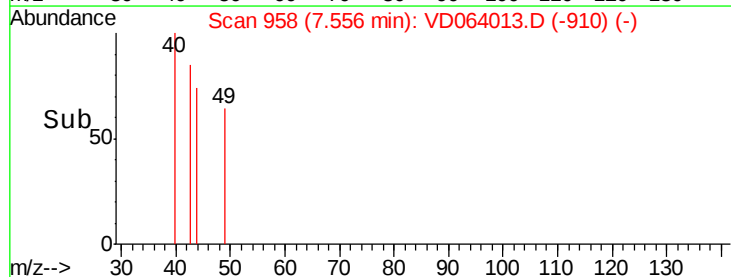
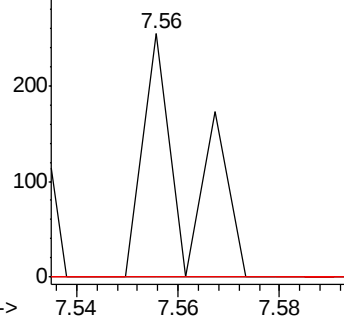
Tgt Ion	Ratio	Lower	Upper
42	100		
72	0.0	37.6	56.4#
71	0.0	35.0	52.6#

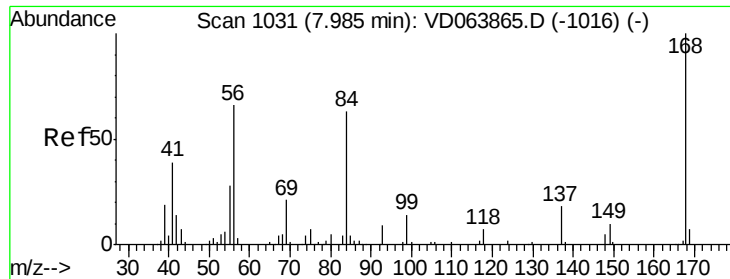


Abundance Ion 42.00 (41.70 to 42.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

Ion 71.00 (70.70 to 71.70): VDC

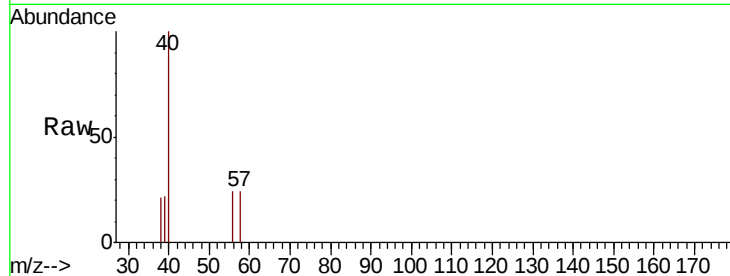




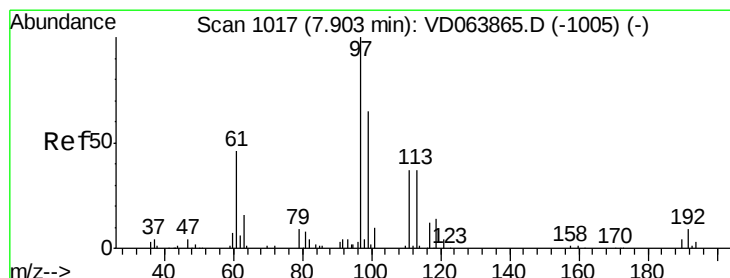
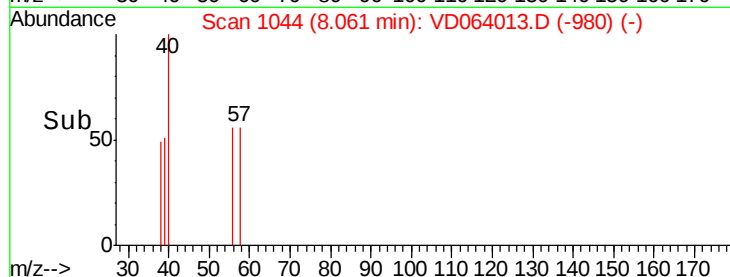
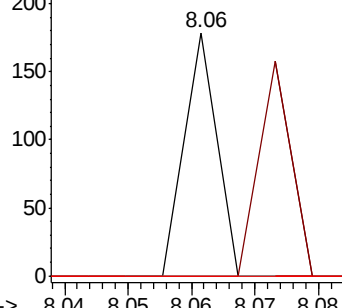
#31
Cyclohexane
Concen: Below Cal
RT: 8.06 min Scan# 1044
Delta R.T. 0.08 min
Lab File: VD064013.D
Acq: 18 Oct 2019 16:46

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 56 Resp: 63
Ion Ratio Lower Upper
56 100
69 0.0 25.0 37.4#
84 0.0 76.3 114.5#

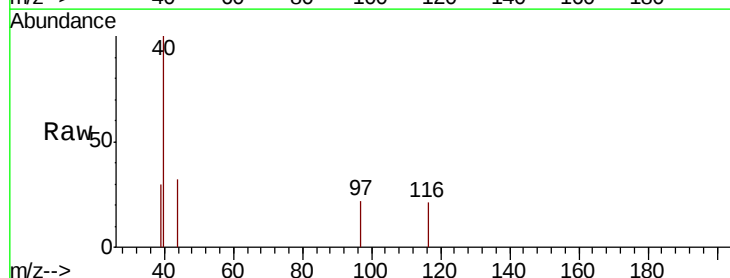


Abundance Ion 56.00 (55.70 to 56.70): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.00 (83.70 to 84.70): VDC

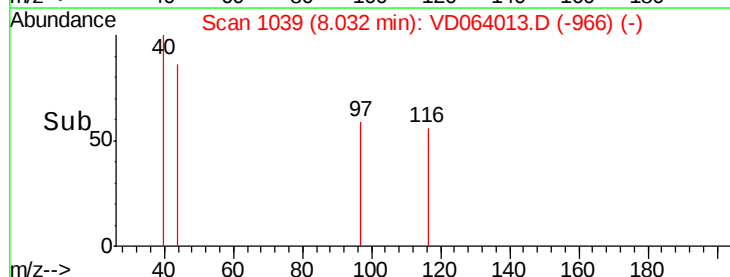
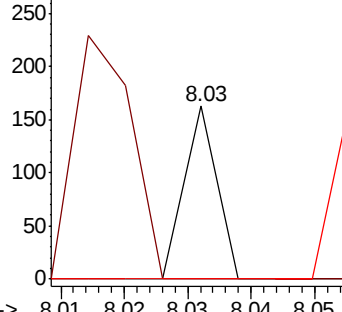


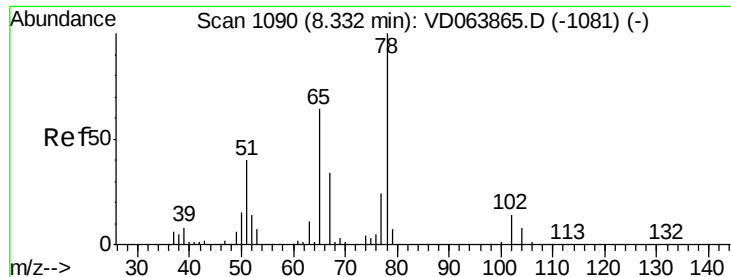
#32
1,1,1-Trichloroethane
Concen: 1.109 ug/l
RT: 8.03 min Scan# 1039
Delta R.T. 0.13 min
Lab File: VD064013.D
Acq: 18 Oct 2019 16:46

Tgt Ion: 97 Resp: 57
Ion Ratio Lower Upper
97 100
99 0.0 52.4 78.6#
61 0.0 33.8 50.8#



Abundance Ion 96.90 (96.60 to 97.60): VDC
Ion 98.90 (98.60 to 99.60): VDC
Ion 60.90 (60.60 to 61.60): VDC





#33

1,2-Dichloroethane-d4

Concen: 90.087 ug/l

RT: 8.33 min Scan# 1090

Delta R.T. -0.00 min

Lab File: VD064013.D

Acq: 18 Oct 2019 16:46

Instrument :

MSVOA_D

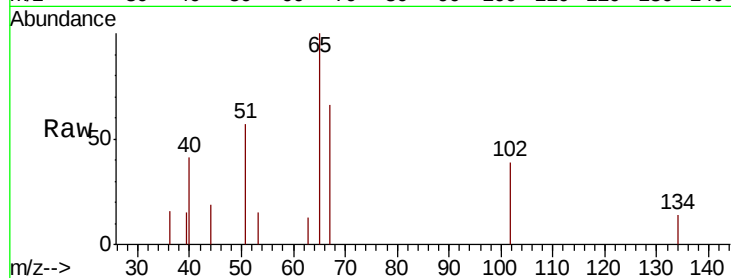
ClientSampled :

Tot Ion: 65 Resp: 2761

Ion Ratio Lower Upper

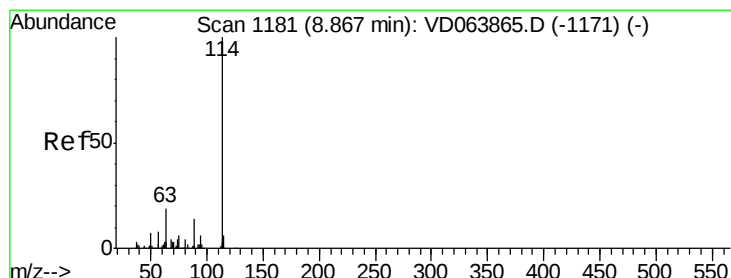
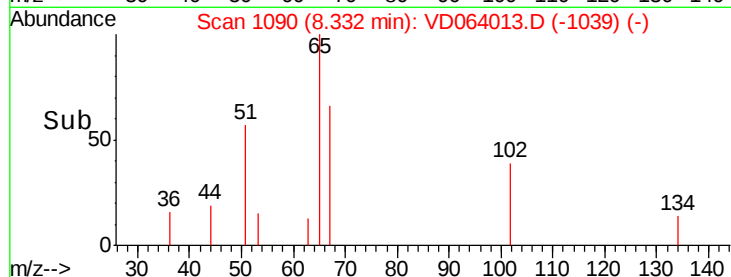
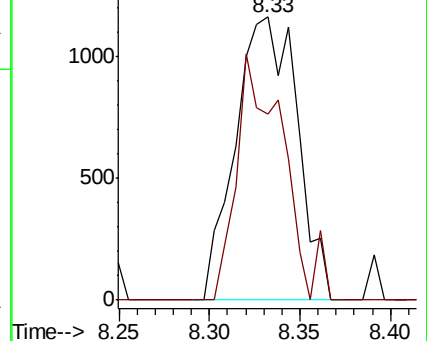
65 100

67 62.0 0.0 106.4



Abundance Ion 64.90 (64.60 to 65.60): VDC

Ion 66.90 (66.60 to 67.60): VDC



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.86 min Scan# 1180

Delta R.T. -0.01 min

Lab File: VD064013.D

Acq: 18 Oct 2019 16:46

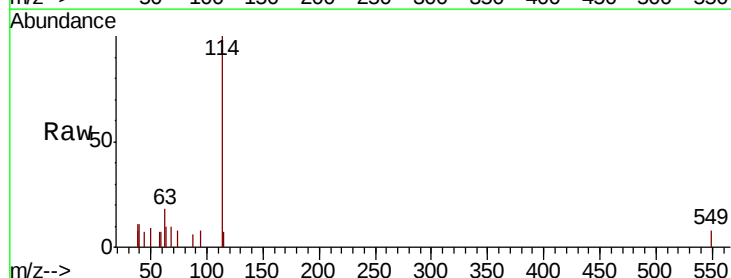
Tgt Ion: 114 Resp: 5256

Ion Ratio Lower Upper

114 100

63 18.0 0.0 38.4

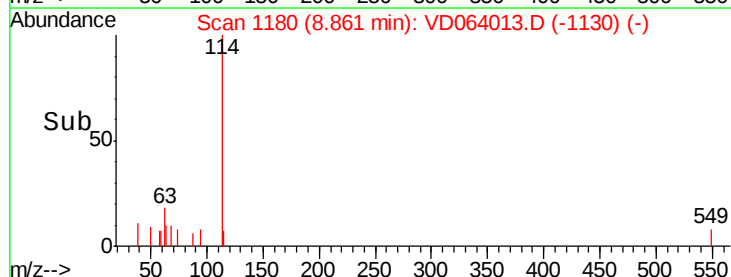
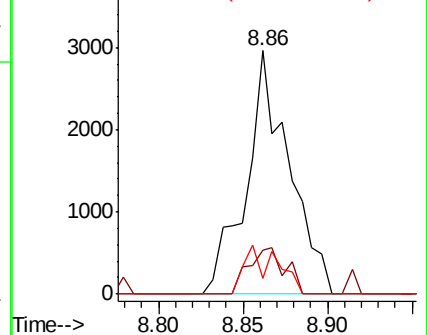
88 6.5 0.0 27.4

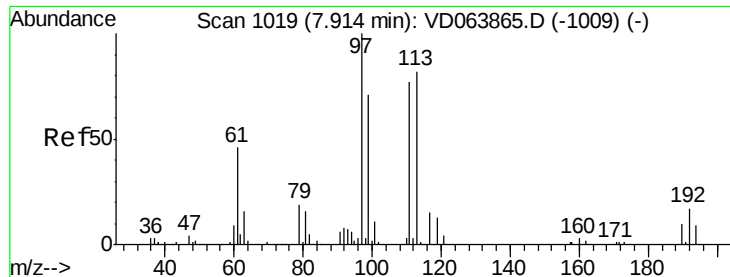


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VDC

Ion 87.90 (87.60 to 88.60): VDC

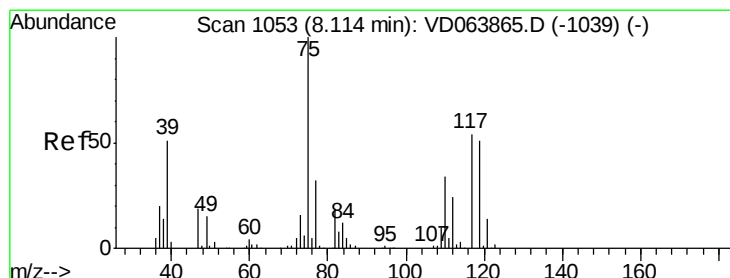
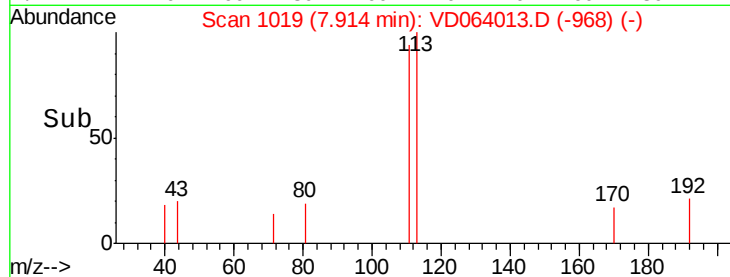
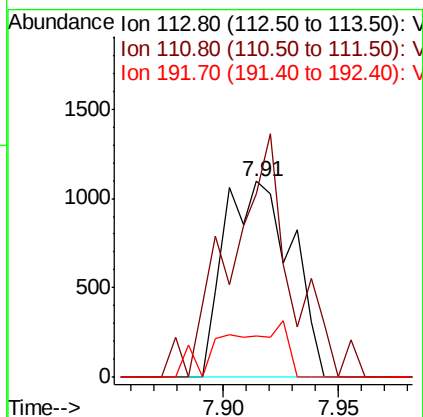
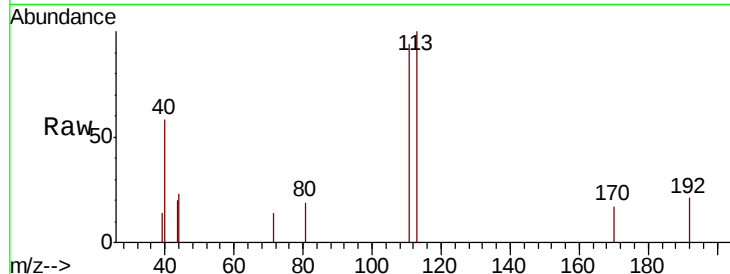




#35
 Dibromofluoromethane
 Concen: 69.082 ug/l
 RT: 7.91 min Scan# 1019
 Delta R.T. -0.00 min
 Lab File: VD064013.D
 Acq: 18 Oct 2019 16:46

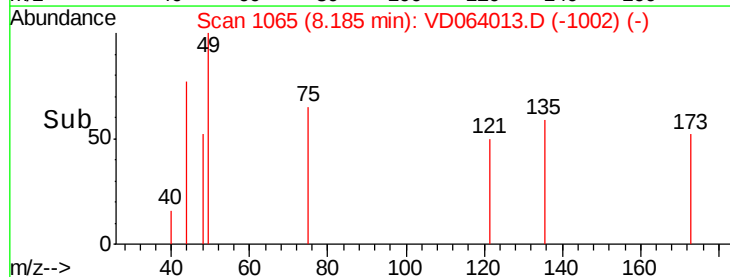
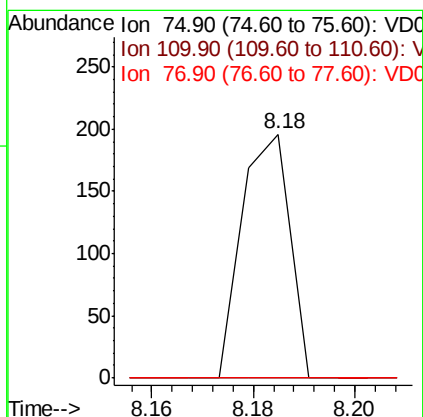
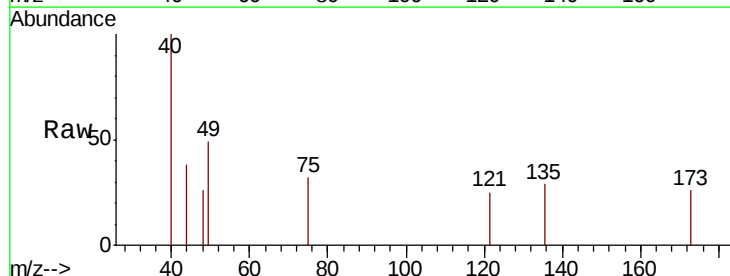
Instrument :
 MSVOA_D
 ClientSampleId :

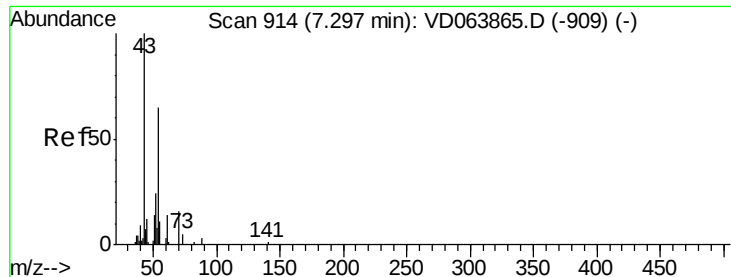
Tot Ion: 113 Resp: 2219
 Ion Ratio Lower Upper
 113 100
 111 113.7 82.6 123.8
 192 13.7 17.1 25.7#



#36
 1,1-Dichloropropene
 Concen: 2.684 ug/l
 RT: 8.18 min Scan# 1065
 Delta R.T. 0.07 min
 Lab File: VD064013.D
 Acq: 18 Oct 2019 16:46

Tgt Ion: 75 Resp: 129
 Ion Ratio Lower Upper
 75 100
 110 0.0 17.4 52.3#
 77 0.0 25.4 38.0#

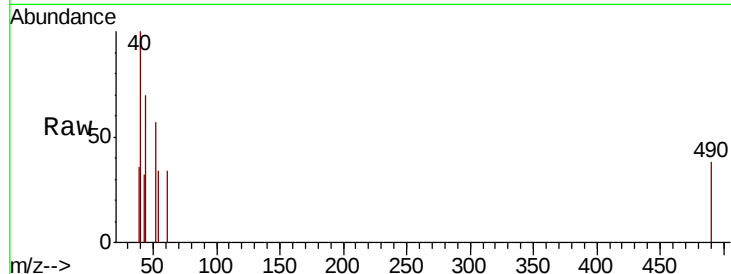




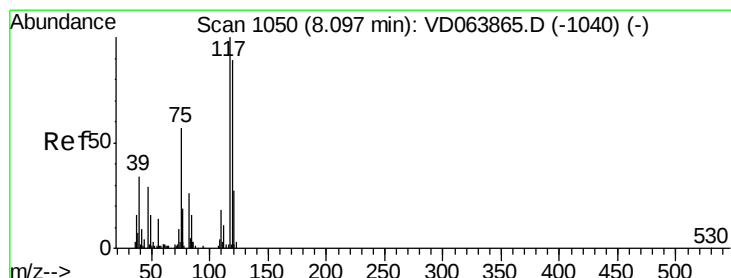
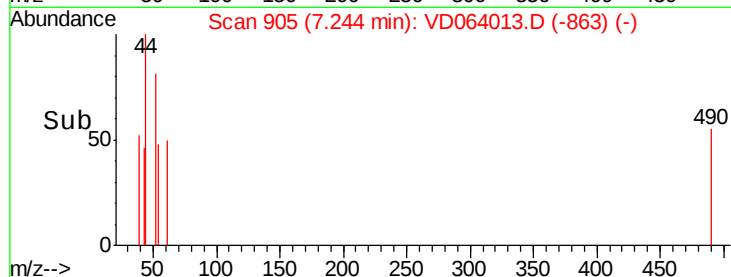
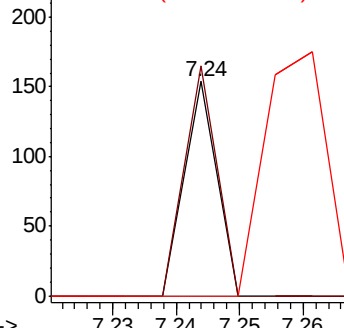
#37
Ethyl Acetate
Concen: Below Cal
RT: 7.24 min Scan# 905
Delta R.T. -0.05 min
Lab File: VD064013.D
Acq: 18 Oct 2019 16:46

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 43 Resp: 54
Ion Ratio Lower Upper
43 100
61 107.4 11.5 17.3#
70 0.0 8.2 12.4#

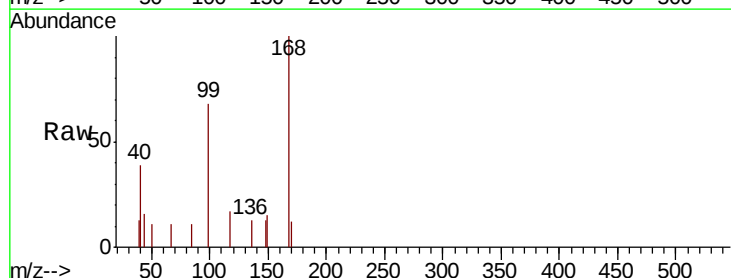


Abundance Ion 43.00 (42.70 to 43.70): VDC
Ion 60.90 (60.60 to 61.60): VDC
Ion 70.00 (69.70 to 70.70): VDC

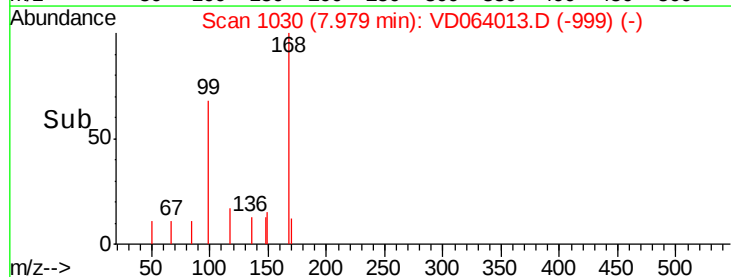
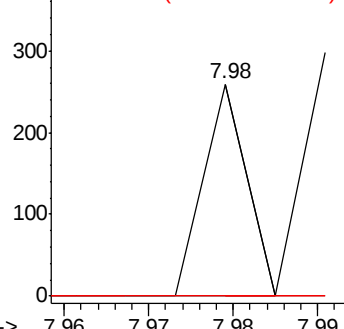


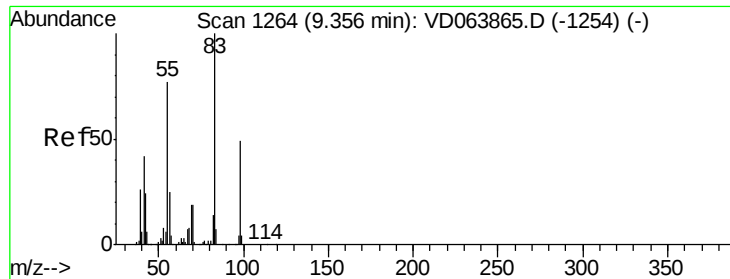
#38
Carbon Tetrachloride
Concen: 1.874 ug/l
RT: 7.98 min Scan# 1030
Delta R.T. -0.12 min
Lab File: VD064013.D
Acq: 18 Oct 2019 16:46

Tgt Ion: 117 Resp: 91
Ion Ratio Lower Upper
117 100
119 0.0 70.8 106.2#
121 0.0 21.4 32.0#



Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

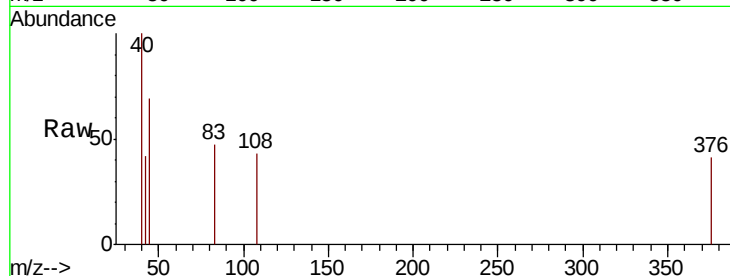




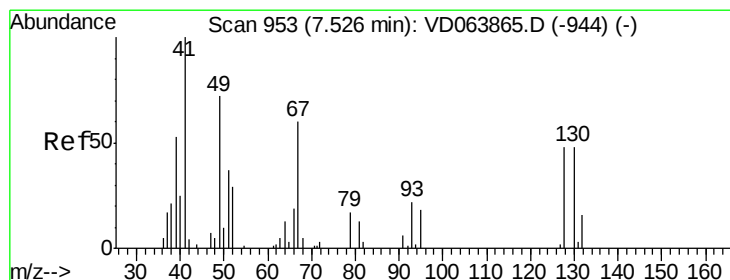
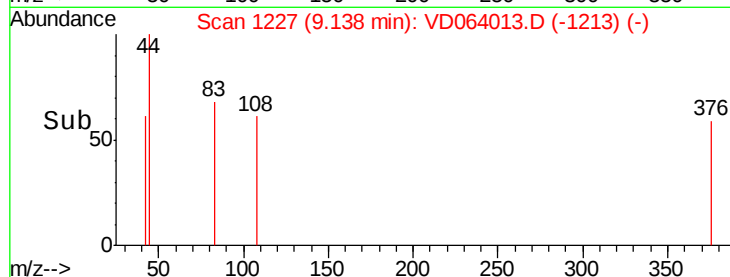
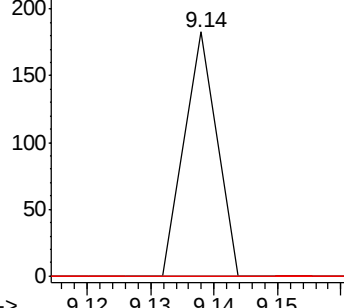
#39
Methylcyclohexane
Concen: 1.100 ug/l
RT: 9.14 min Scan# 1227
Delta R.T. -0.22 min
Lab File: VD064013.D
Acq: 18 Oct 2019 16:46

Instrument :
MSVOA_D
ClientSampled :

Tot Ion	Ratio	Lower	Upper
83	100		
55	0.0	61.3	91.9#
98	0.0	39.3	58.9#

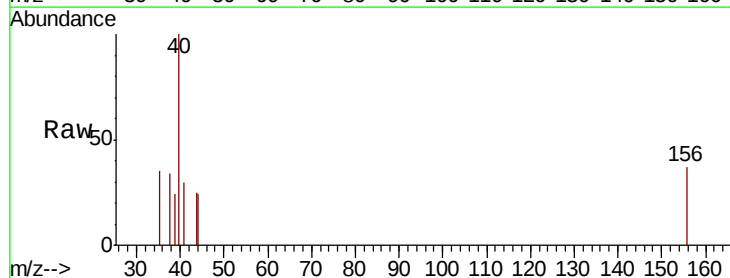


Abundance Ion 83.00 (82.70 to 83.70): VDC
Ion 55.00 (54.70 to 55.70): VDC
Ion 98.00 (97.70 to 98.70): VDC

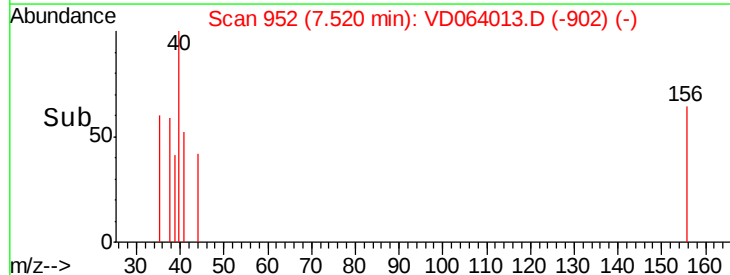
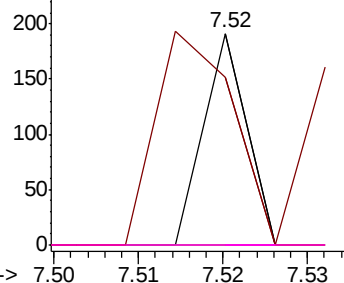


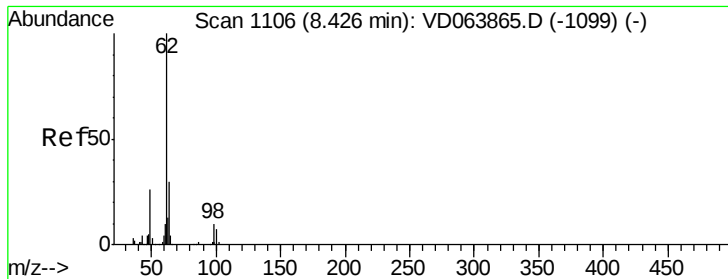
#41
Methacrylonitrile
Concen: 6.013 ug/l
RT: 7.52 min Scan# 952
Delta R.T. -0.01 min
Lab File: VD064013.D
Acq: 18 Oct 2019 16:46

Tgt Ion	Ratio	Lower	Upper
41	100		
39	180.6	52.6	78.8#
67	0.0	74.2	111.2#
52	0.0	34.0	51.0#



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





#42

1,2-Dichloroethane

Concen: 1.883 ug/l

RT: 8.41 min Scan# 1104

Delta R.T. -0.01 min

Lab File: VD064013.D

Acq: 18 Oct 2019 16:46

Instrument :

MSVOA_D

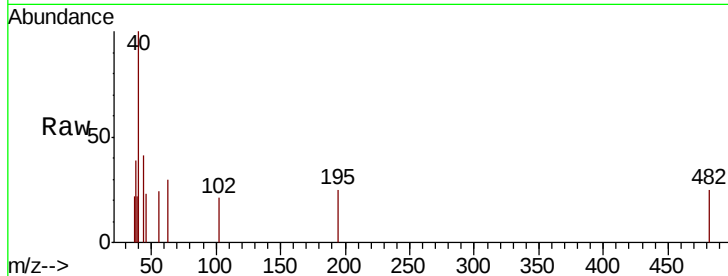
ClientSampleId :

Tot Ion: 62 Resp: 75

Ion Ratio Lower Upper

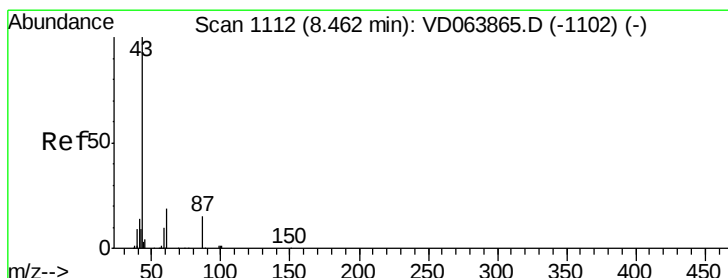
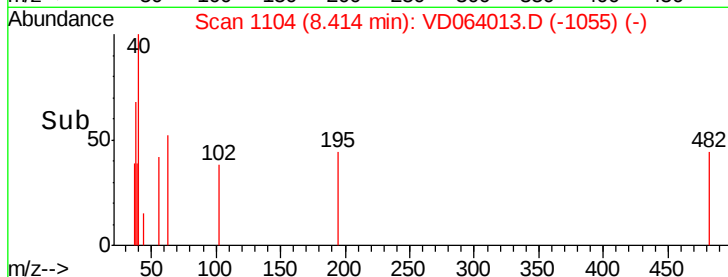
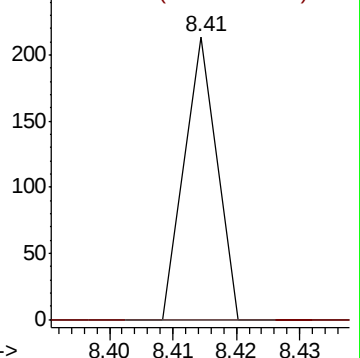
62 100

98 0.0 0.0 20.0



Abundance Ion 61.90 (61.60 to 62.60): VDC

Ion 97.90 (97.60 to 98.60): VDC



#43

Isopropyl Acetate

Concen: 1.489 ug/l

RT: 8.43 min Scan# 1106

Delta R.T. -0.04 min

Lab File: VD064013.D

Acq: 18 Oct 2019 16:46

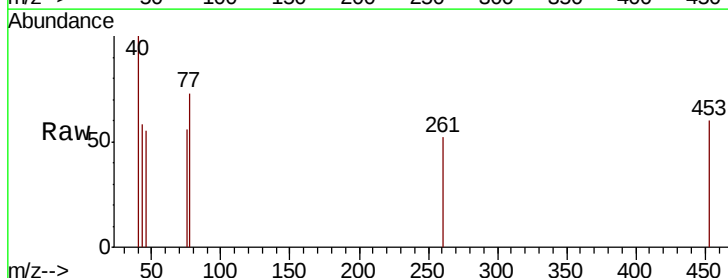
Tgt Ion: 43 Resp: 60

Ion Ratio Lower Upper

43 100

61 0.0 25.7 38.5#

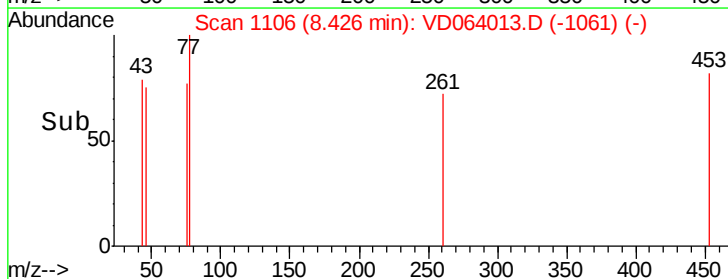
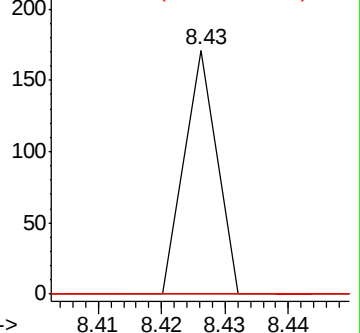
87 0.0 11.6 17.4#

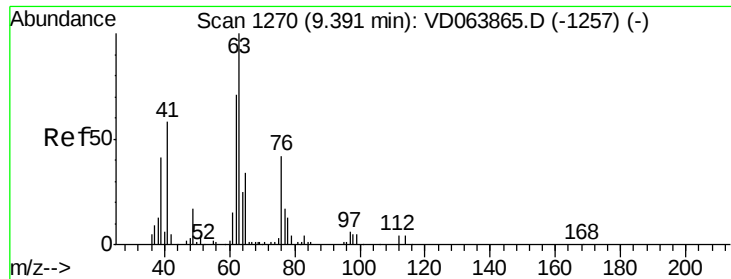


Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 61.00 (60.70 to 61.70): VDC

Ion 87.00 (86.70 to 87.70): VDC

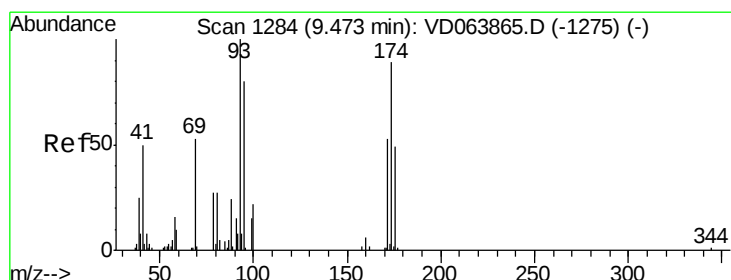
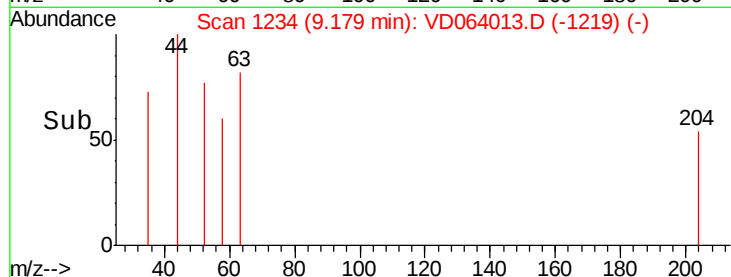
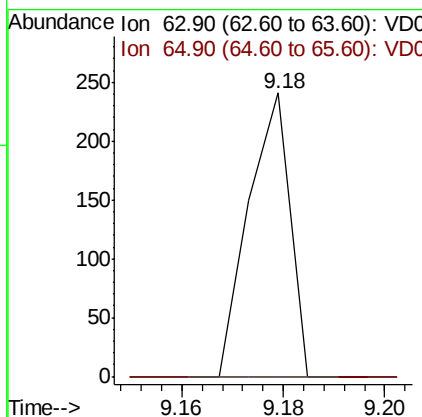
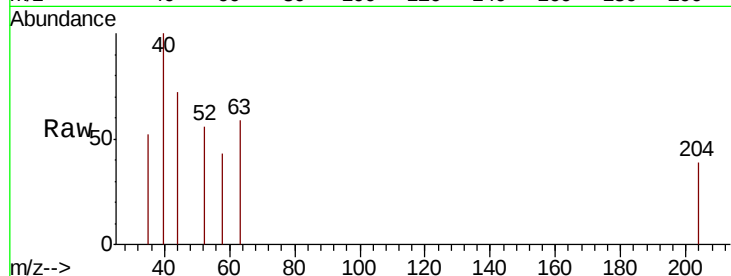




#45
 1,2-Dichloropropane
 Concen: 4.094 ug/l
 RT: 9.18 min Scan# 1234
 Delta R.T. -0.21 min
 Lab File: VD064013.D
 Acq: 18 Oct 2019 16:46

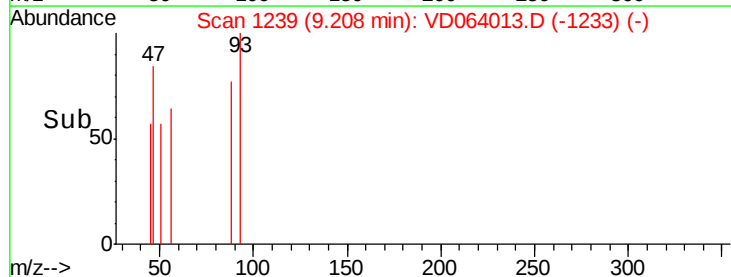
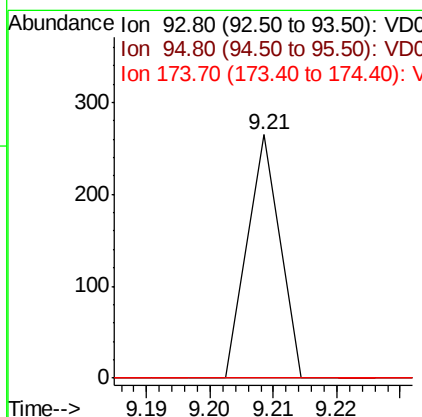
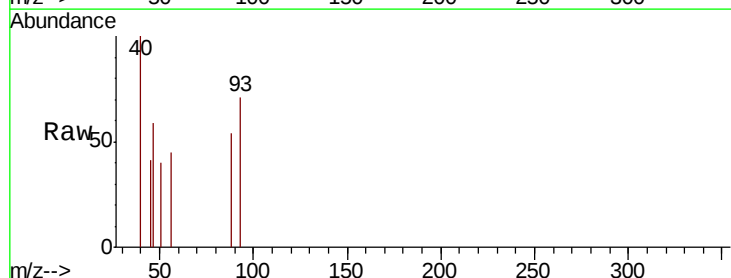
Instrument :
 MSVOA_D
 ClientSampled :

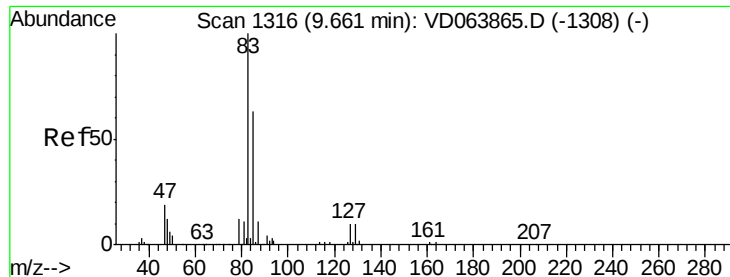
Tot Ion: 63 Resp: 138
 Ion Ratio Lower Upper
 63 100
 65 0.0 27.3 40.9#



#46
 Dibromomethane
 Concen: 4.897 ug/l
 RT: 9.21 min Scan# 1239
 Delta R.T. -0.26 min
 Lab File: VD064013.D
 Acq: 18 Oct 2019 16:46

Tgt Ion: 93 Resp: 94
 Ion Ratio Lower Upper
 93 100
 95 0.0 66.0 99.0#
 174 0.0 83.4 125.0#





#47

Bromodichloromethane

Concen: 3.541 ug/l

RT: 9.90 min Scan# 1357

Delta R.T. 0.24 min

Lab File: VD064013.D

Acq: 18 Oct 2019 16:46

Instrument :

MSVOA_D

ClientSampleId :

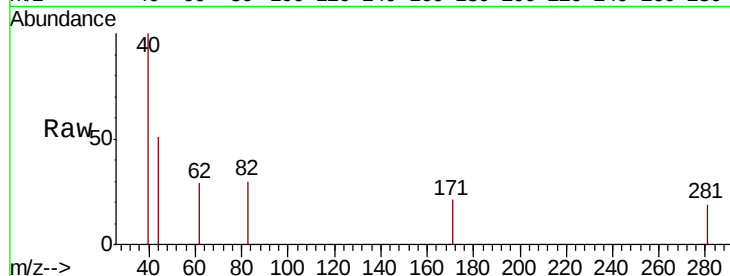
Tot Ion: 83 Resp: 175

Ion Ratio Lower Upper

83 100

85 0.0 50.2 75.2#

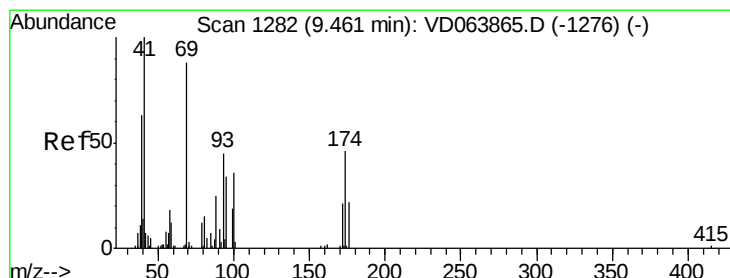
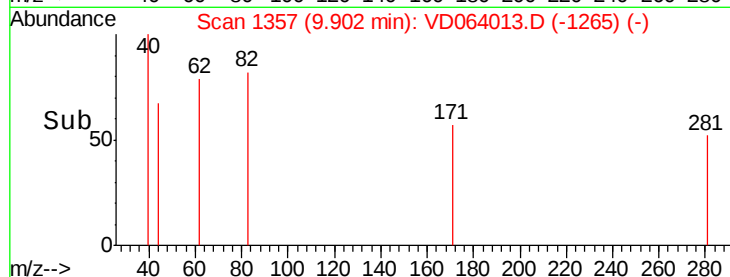
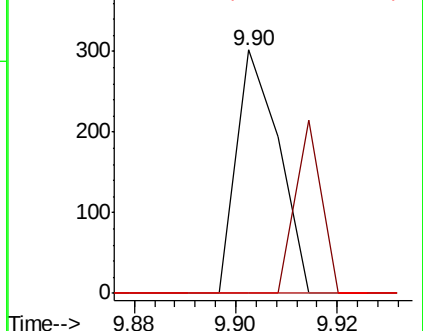
127 0.0 7.6 11.4#



Abundance Ion 82.90 (82.60 to 83.60): VDC

Ion 84.90 (84.60 to 85.60): VDC

Ion 126.80 (126.50 to 127.50): VDC



#48

Methyl methacrylate

Concen: 8.027 ug/l

RT: 9.48 min Scan# 1286

Delta R.T. 0.02 min

Lab File: VD064013.D

Acq: 18 Oct 2019 16:46

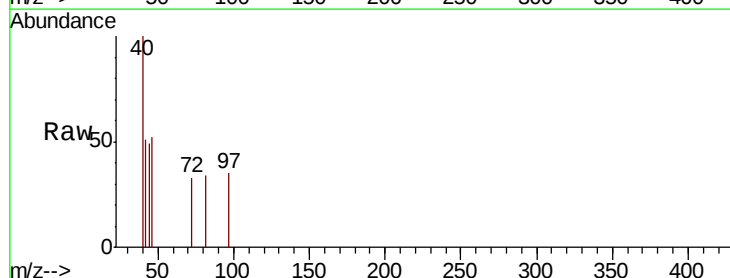
Tgt Ion: 41 Resp: 155

Ion Ratio Lower Upper

41 100

69 0.0 75.1 112.7#

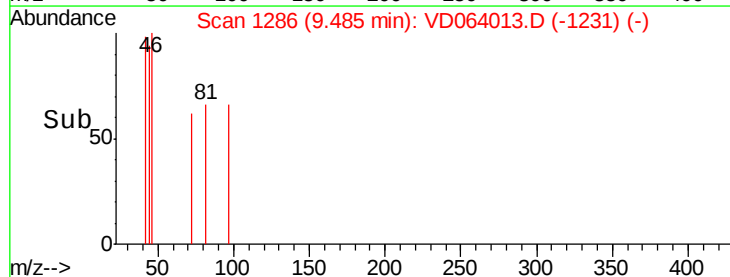
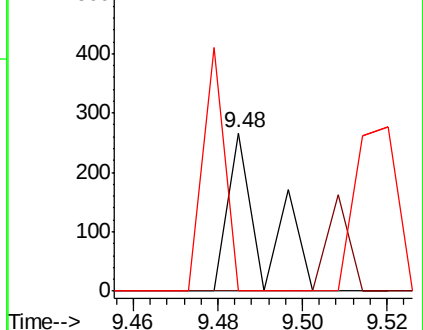
39 93.5 50.2 75.2#

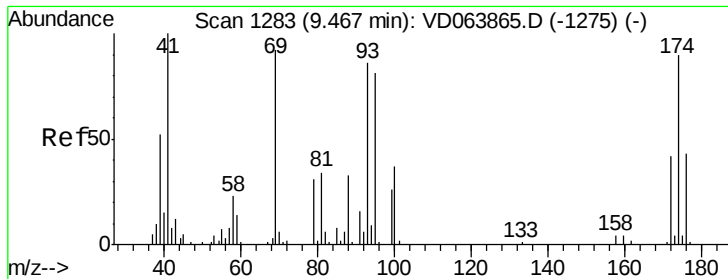


Abundance Ion 41.00 (40.70 to 41.70): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 39.00 (38.70 to 39.70): VDC

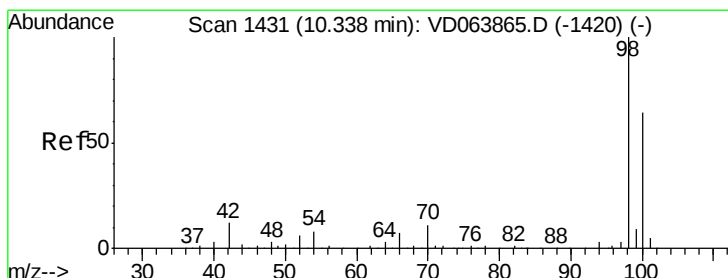
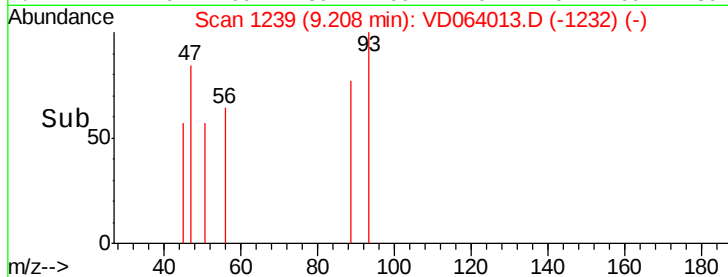
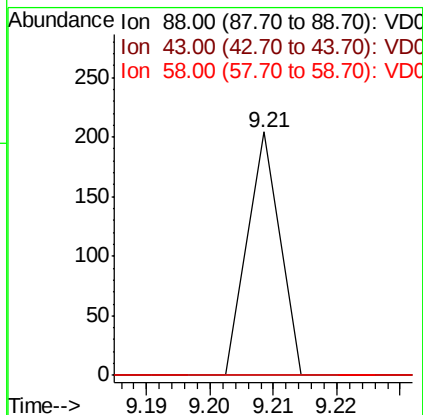
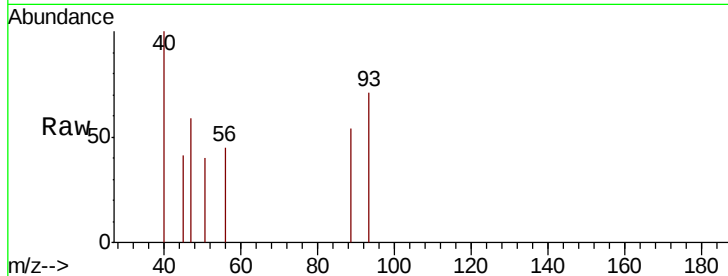




#49
 1,4-Dioxane
 Concen: 274.765 ug/l
 RT: 9.21 min Scan# 1239
 Delta R.T. -0.26 min
 Lab File: VD064013.D
 Acq: 18 Oct 2019 16:46

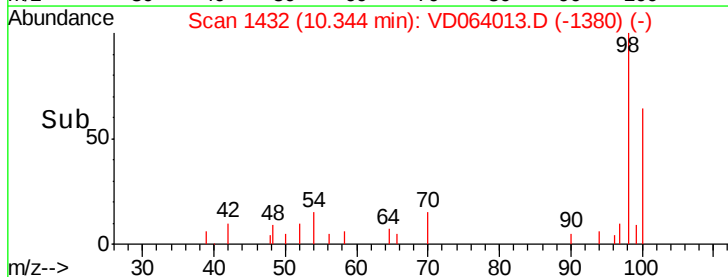
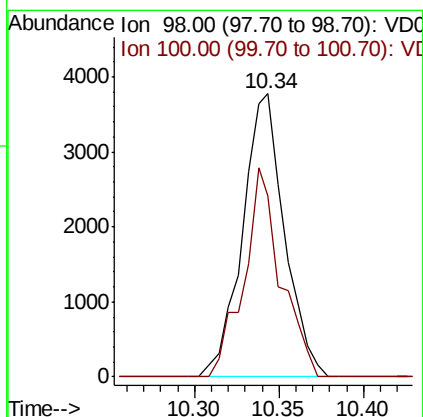
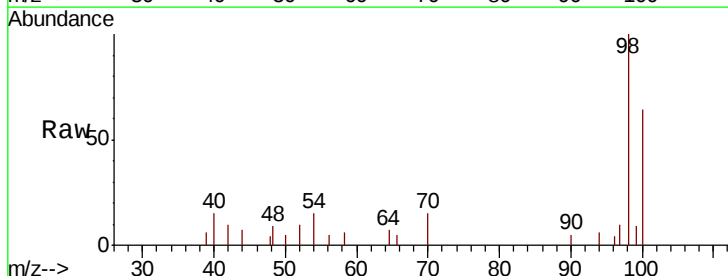
Instrument :
 MSVOA_D
 ClientSampleID :

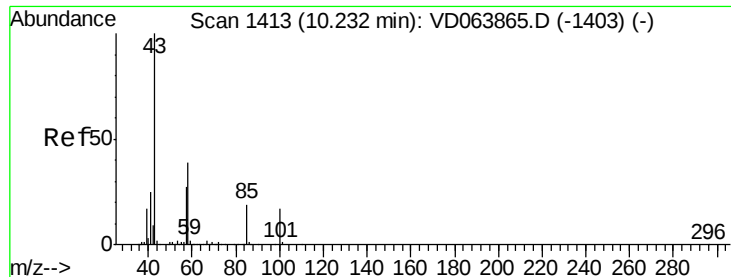
Tot Ion: 88 Resp: 72
 Ion Ratio Lower Upper
 88 100
 43 0.0 27.6 41.4#
 58 0.0 54.1 81.1#



#50
 Toluene-d8
 Concen: 50.140 ug/l
 RT: 10.34 min Scan# 1432
 Delta R.T. 0.01 min
 Lab File: VD064013.D
 Acq: 18 Oct 2019 16:46

Tgt Ion: 98 Resp: 6537
 Ion Ratio Lower Upper
 98 100
 100 65.1 52.1 78.1

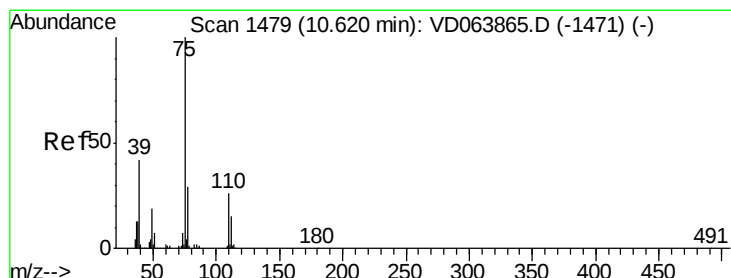
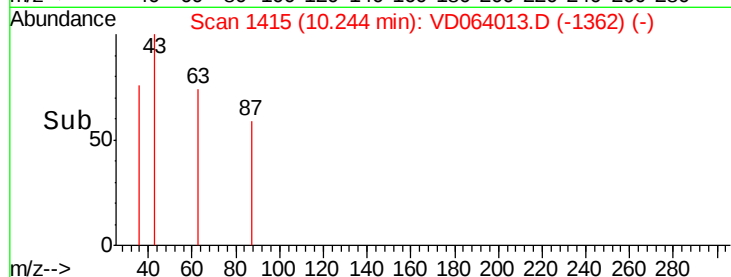
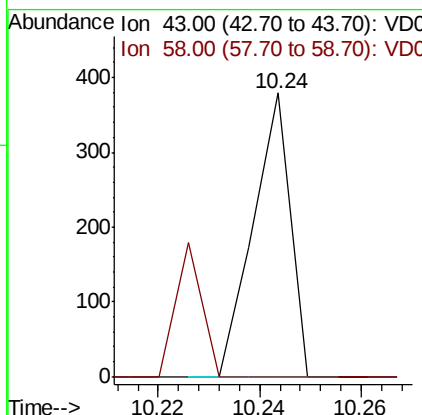
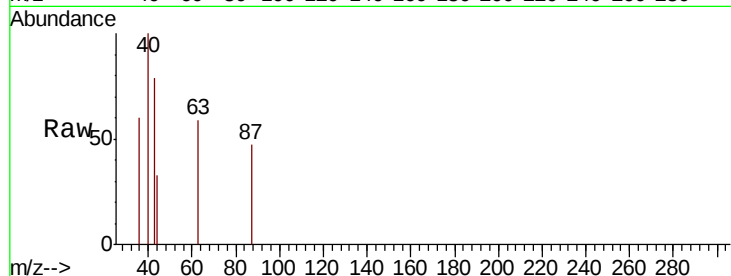




#51
4-Methyl-2-Pentanone
Concen: 9.282 ug/l
RT: 10.24 min Scan# 1415
Delta R.T. 0.01 min
Lab File: VD064013.D
Acq: 18 Oct 2019 16:46

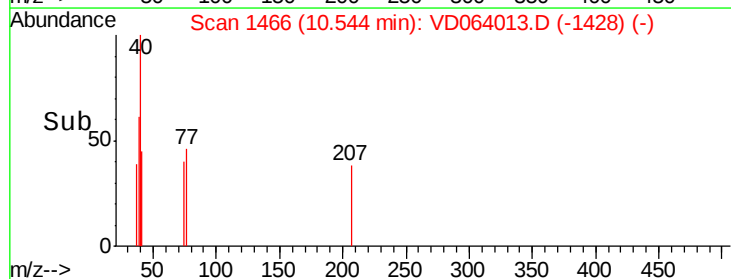
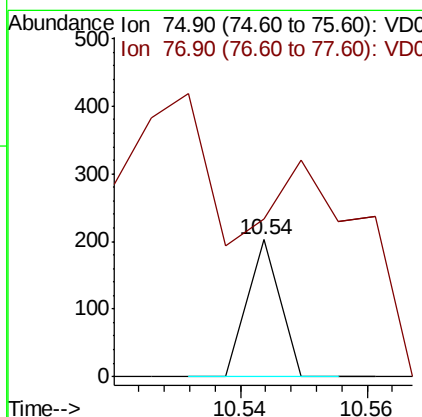
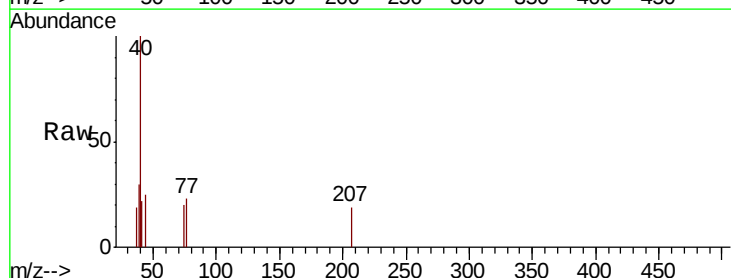
Instrument :
MSVOA_D
ClientSampled :

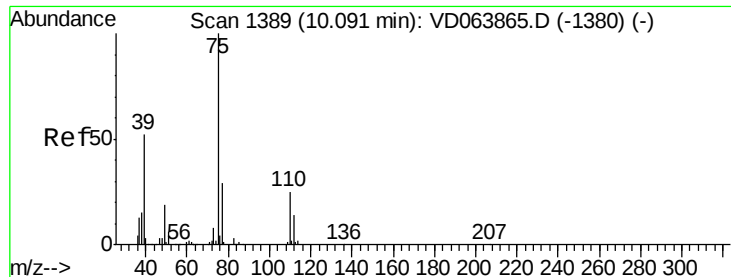
Tot Ion: 43 Resp: 194
Ion Ratio Lower Upper
43 100
58 33.0 33.0 49.4



#53
t-1,3-Dichloropropene
Concen: 1.472 ug/l
RT: 10.54 min Scan# 1466
Delta R.T. -0.08 min
Lab File: VD064013.D
Acq: 18 Oct 2019 16:46

Tgt Ion: 75 Resp: 71
Ion Ratio Lower Upper
75 100
77 2.0 22.8 34.2#





#54

cis-1,3-Dichloropropene

Concen: 1.207 ug/l

RT: 10.18 min Scan# 1405

Delta R.T. 0.09 min

Lab File: VD064013.D

Acq: 18 Oct 2019 16:46

Instrument :

MSVOA_D

ClientSampleId :

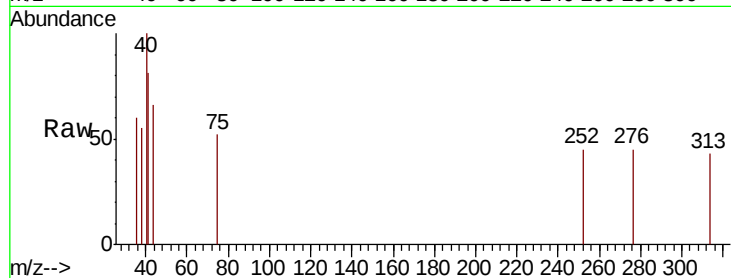
Tot Ion: 75 Resp: 67

Ion Ratio Lower Upper

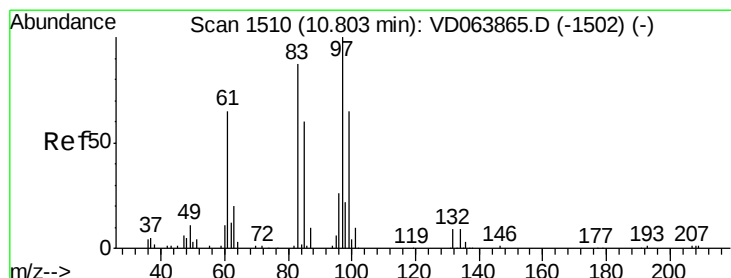
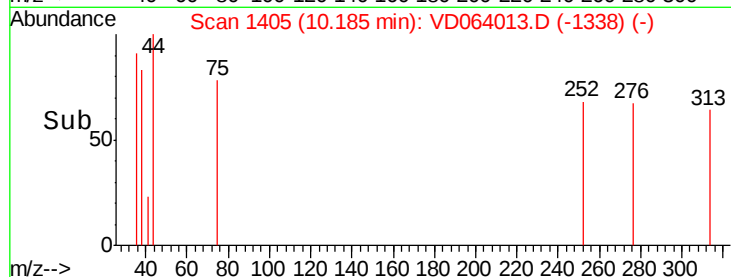
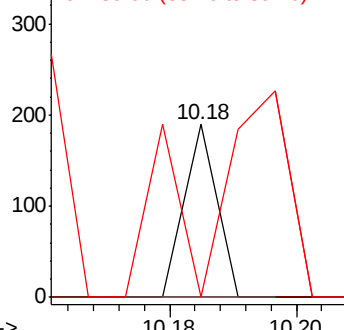
75 100

77 0.0 23.2 34.8#

39 0.0 41.5 62.3#



Abundance Ion 74.90 (74.60 to 75.60): VDC
Ion 76.90 (76.60 to 77.60): VDC
Ion 39.00 (38.70 to 39.70): VDC



#55

1,1,2-Trichloroethane

Concen: 2.250 ug/l

RT: 10.78 min Scan# 1506

Delta R.T. -0.02 min

Lab File: VD064013.D

Acq: 18 Oct 2019 16:46

Tgt Ion: 97 Resp: 61

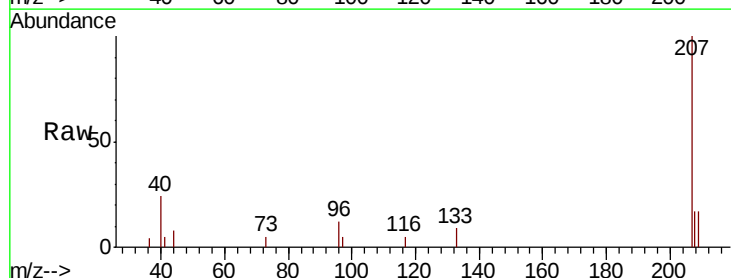
Ion Ratio Lower Upper

97 100

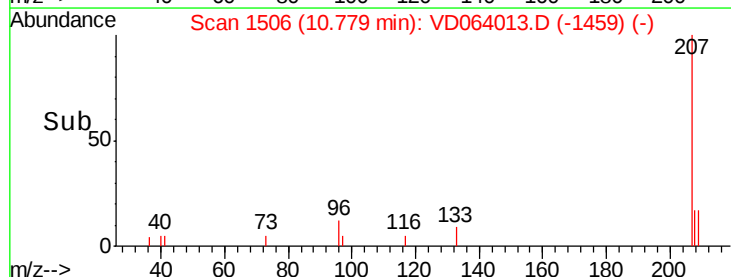
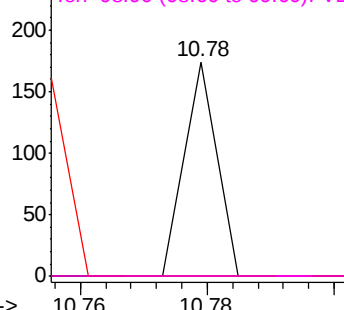
83 0.0 69.7 104.5#

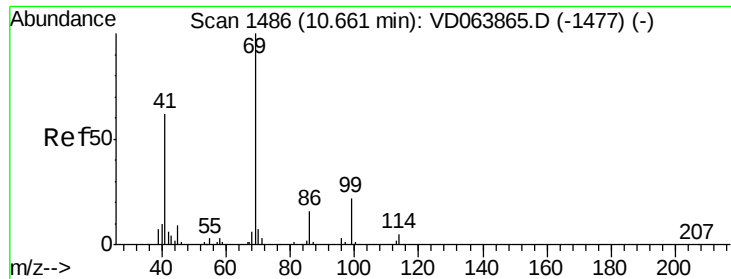
85 0.0 48.1 72.1#

99 0.0 51.9 77.9#



Abundance Ion 96.90 (96.60 to 97.60): VDC
Ion 82.90 (82.60 to 83.60): VDC
Ion 84.90 (84.60 to 85.60): VDC
Ion 98.90 (98.60 to 99.60): VDC





#56

Ethyl methacrylate

Concen: 1.865 ug/l

RT: 10.43 min Scan# 1447

Delta R.T. -0.23 min

Lab File: VD064013.D

Acq: 18 Oct 2019 16:46

Instrument :

MSVOA_D

ClientSampleId :

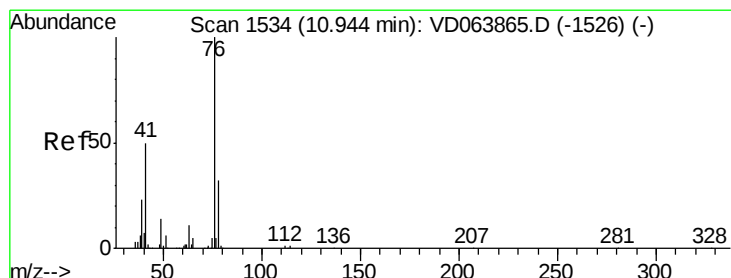
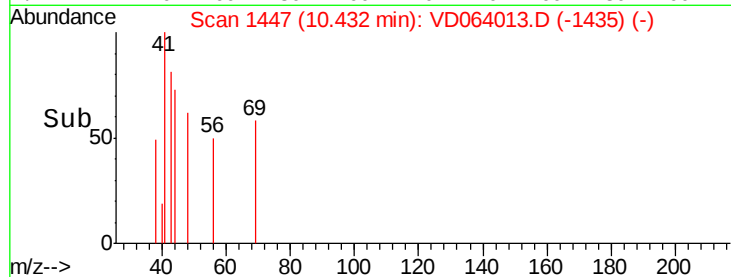
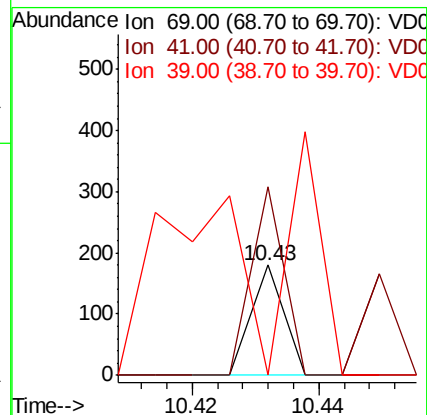
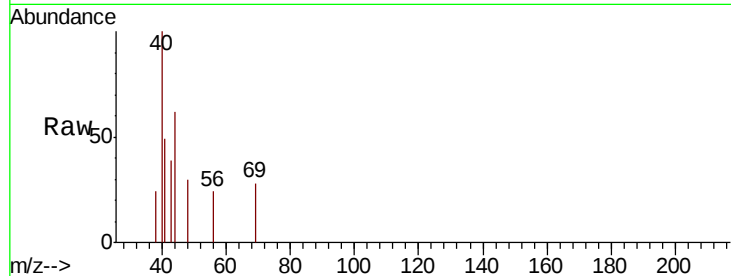
Tot Ion: 69 Resp: 64

Ion Ratio Lower Upper

69 100

41 170.3 51.3 76.9#

39 514.1 28.0 42.0#



#57

1,3-Dichloropropane

Concen: 1.466 ug/l

RT: 10.76 min Scan# 1502

Delta R.T. -0.19 min

Lab File: VD064013.D

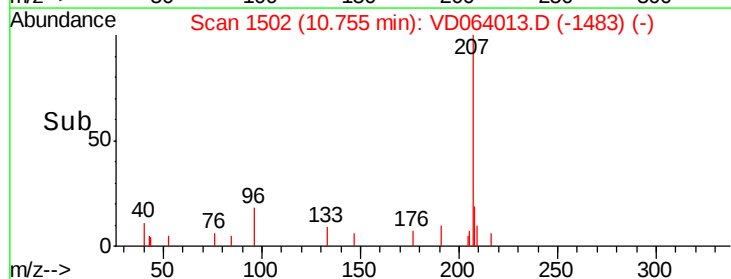
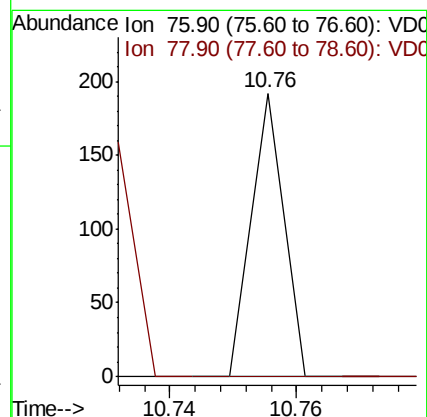
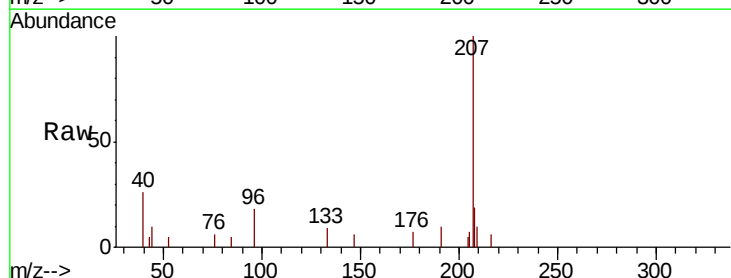
Acq: 18 Oct 2019 16:46

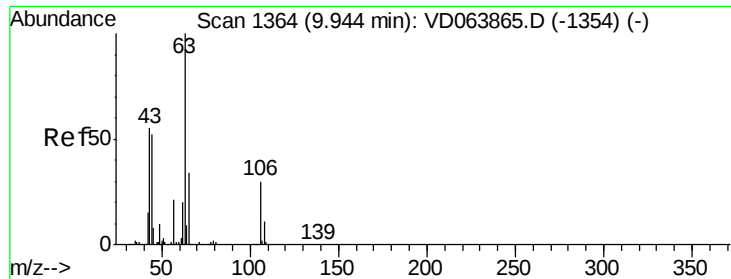
Tgt Ion: 76 Resp: 68

Ion Ratio Lower Upper

76 100

78 0.0 26.6 40.0#

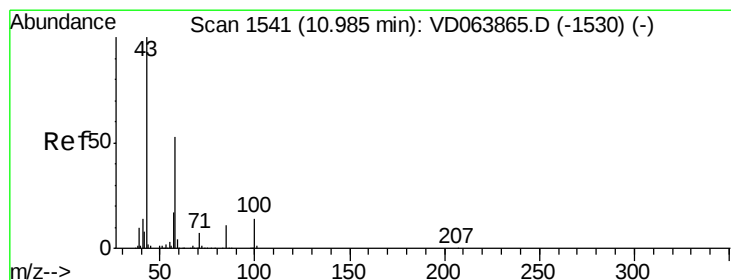
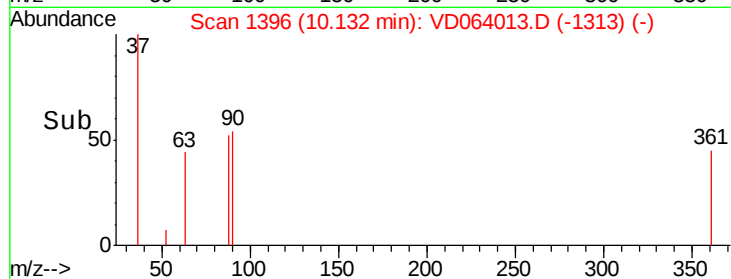
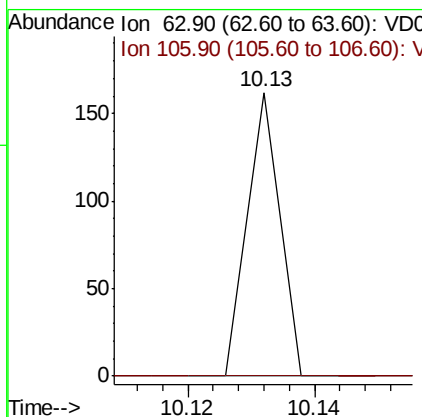
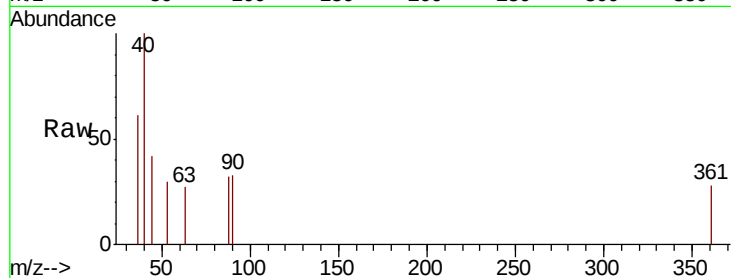




#58
 2-Chloroethyl Vinyl ether
 Concen: 3.863 ug/l
 RT: 10.13 min Scan# 1396
 Delta R.T. 0.19 min
 Lab File: VD064013.D
 Acq: 18 Oct 2019 16:46

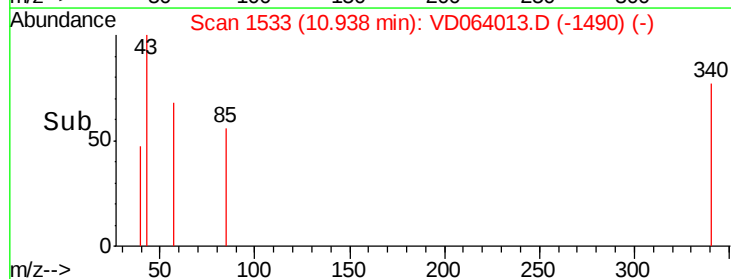
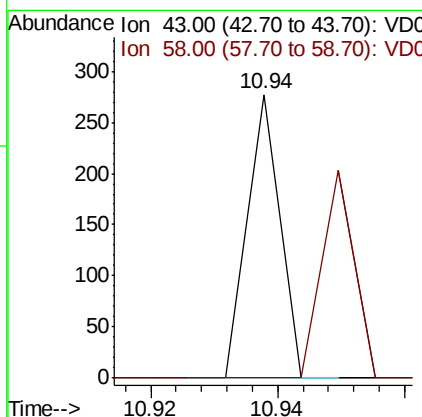
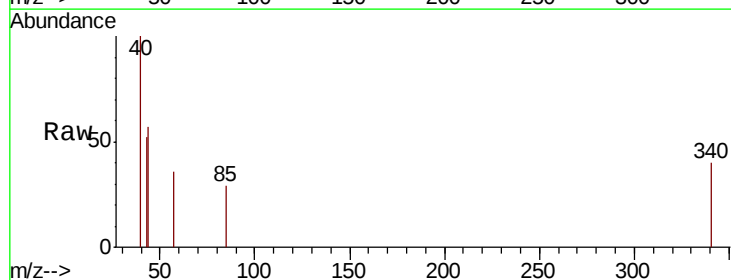
Instrument :
 MSVOA_D
 ClientSampleId :

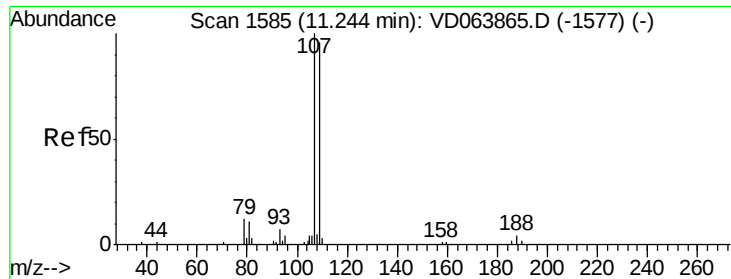
Tot Ion: 63 Resp: 57
 Ion Ratio Lower Upper
 63 100
 106 0.0 24.3 36.5#



#59
 2-Hexanone
 Concen: 6.482 ug/l
 RT: 10.94 min Scan# 1533
 Delta R.T. -0.05 min
 Lab File: VD064013.D
 Acq: 18 Oct 2019 16:46

Tgt Ion: 43 Resp: 98
 Ion Ratio Lower Upper
 43 100
 58 73.5 27.7 83.0

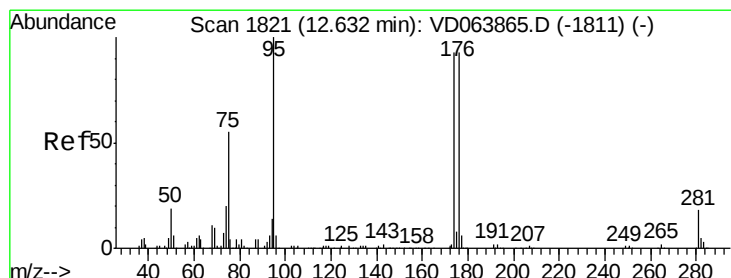
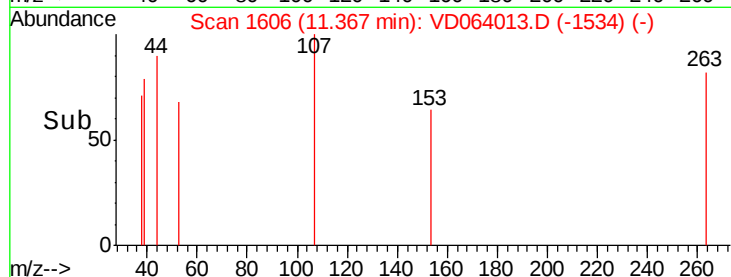
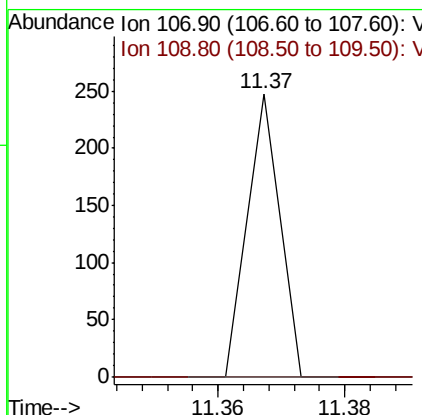
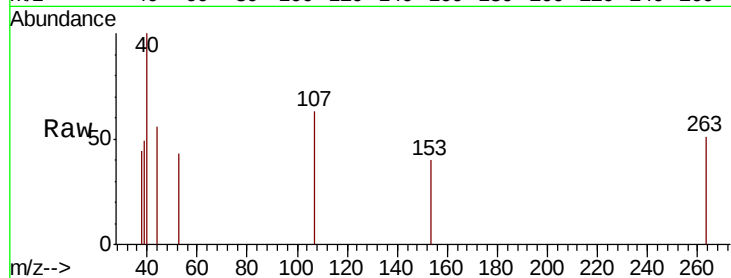




#61
 1,2-Dibromoethane
 Concen: 3.349 ug/l
 RT: 11.37 min Scan# 1606
 Delta R.T. 0.12 min
 Lab File: VD064013.D
 Acq: 18 Oct 2019 16:46

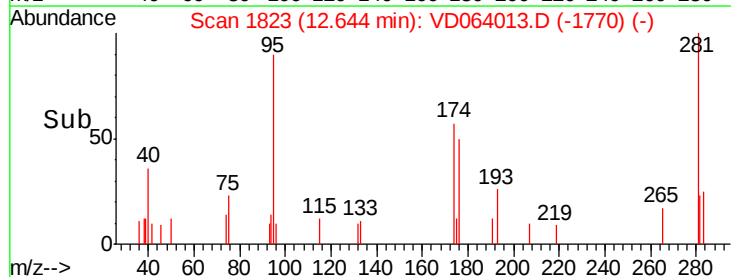
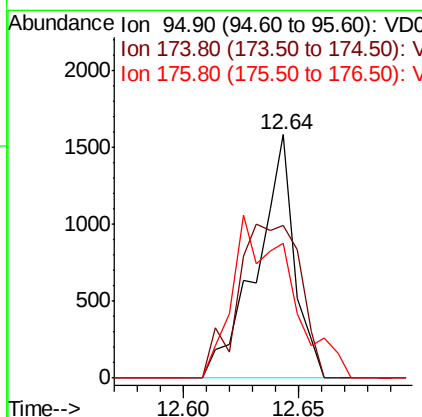
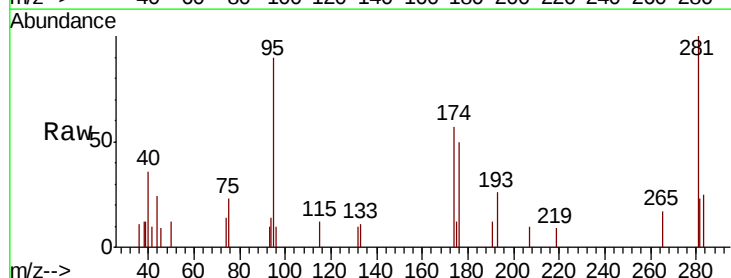
Instrument :
 MSVOA_D
 ClientSampled :

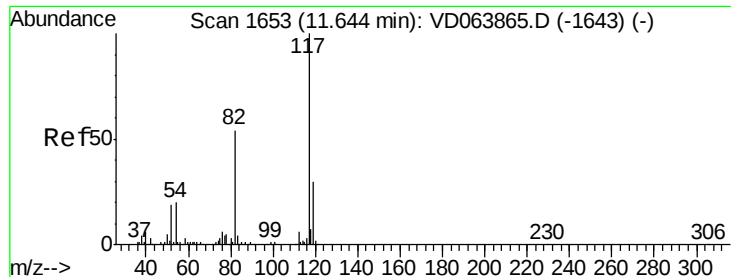
Tot Ion:107 Resp: 88
 Ion Ratio Lower Upper
 107 100
 109 0.0 75.2 112.8#



#62
 4-Bromofluorobenzene
 Concen: 39.775 ug/l
 RT: 12.64 min Scan# 1823
 Delta R.T. 0.01 min
 Lab File: VD064013.D
 Acq: 18 Oct 2019 16:46

Tgt Ion: 95 Resp: 1802
 Ion Ratio Lower Upper
 95 100
 174 105.6 0.0 186.4
 176 101.4 0.0 184.2

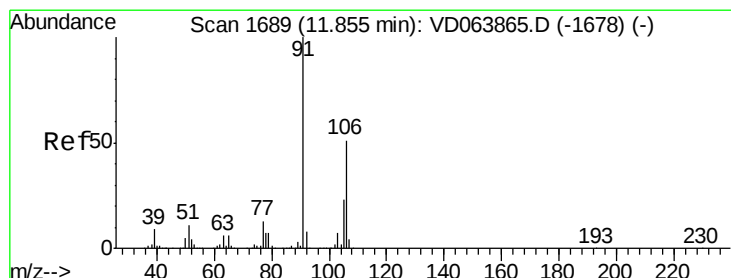
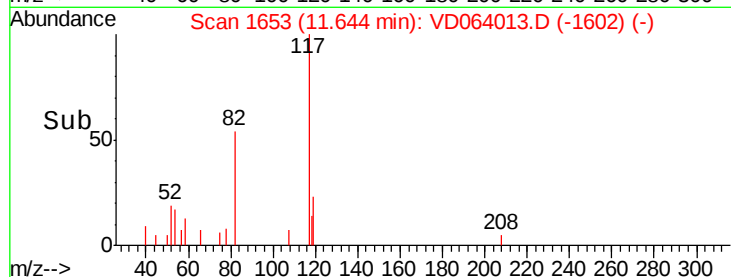
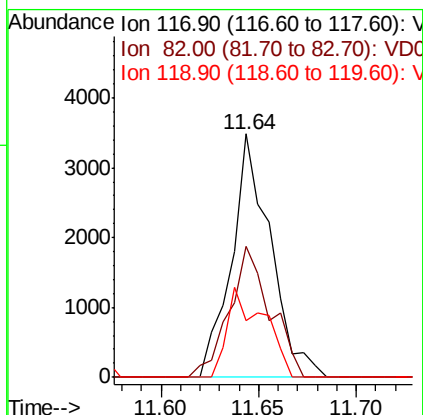
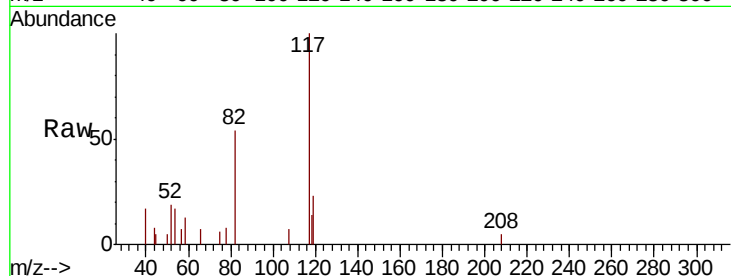




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.64 min Scan# 1653
Delta R.T. -0.00 min
Lab File: VD064013.D
Acq: 18 Oct 2019 16:46

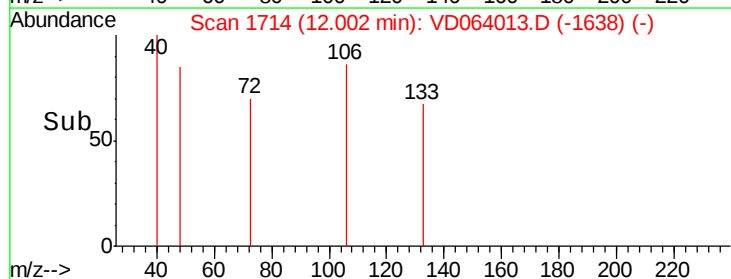
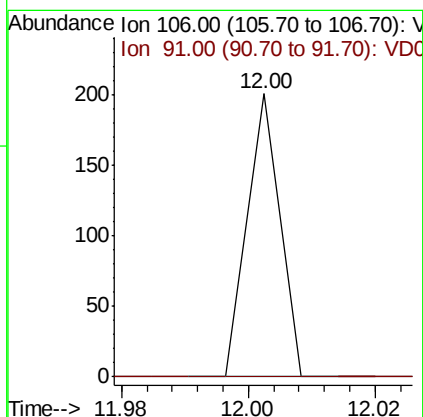
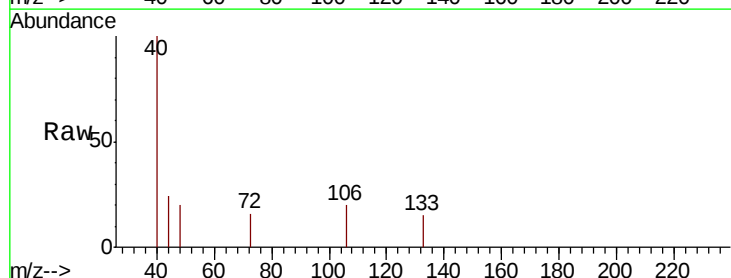
Instrument :
MSVOA_D
ClientSampleId :

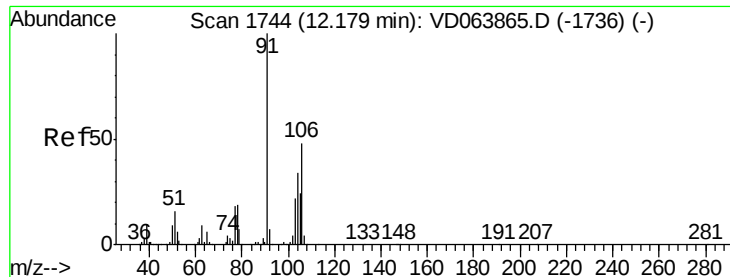
Tot Ion	Ratio	Lower	Upper
117	100		
82	53.9	42.8	64.2
119	23.4	24.4	36.6



#68
m/p-Xylenes
Concen: 1.055 ug/l
RT: 12.00 min Scan# 1714
Delta R.T. 0.15 min
Lab File: VD064013.D
Acq: 18 Oct 2019 16:46

Tgt Ion	Ratio	Lower	Upper
106	100		
91	0.0	154.8	232.2

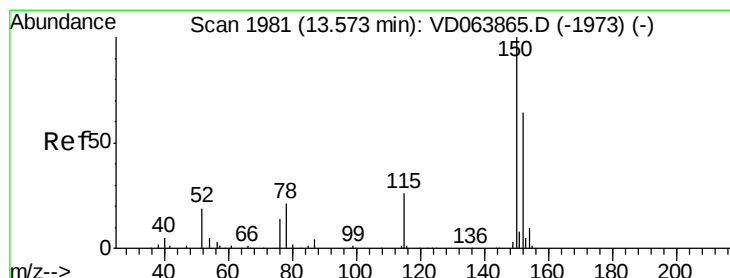
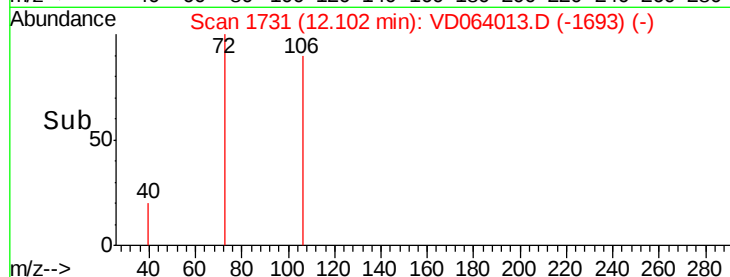
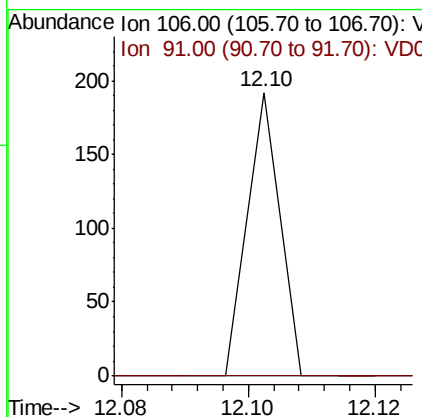
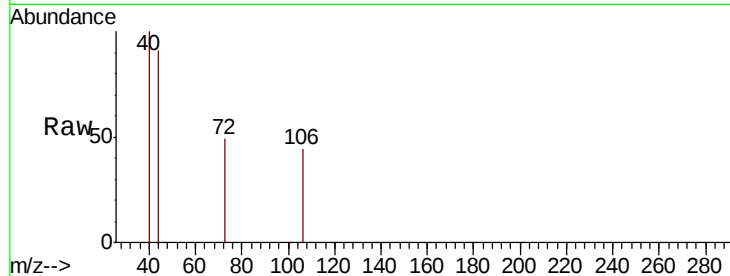




#69
o-Xylene
Concen: 1.055 ug/l
RT: 12.10 min Scan# 1731
Delta R.T. -0.08 min
Lab File: VD064013.D
Acq: 18 Oct 2019 16:46

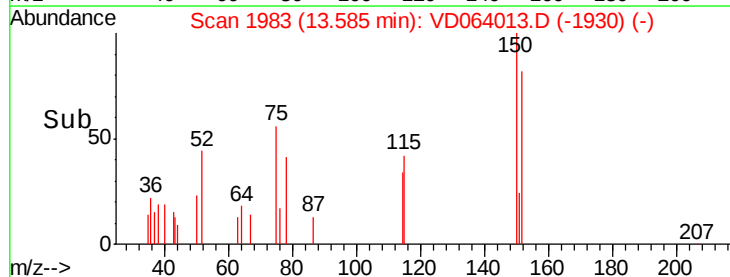
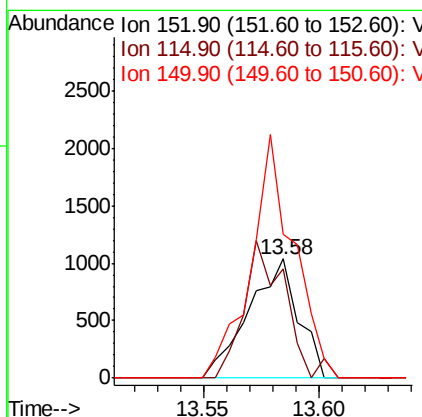
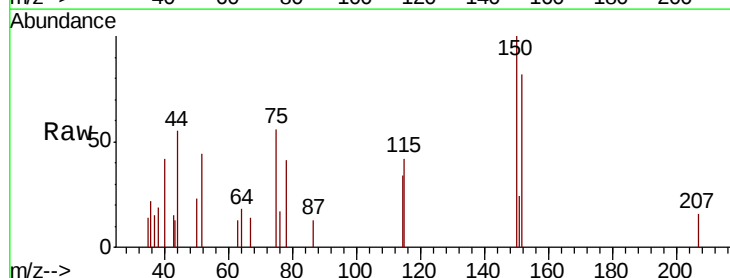
Instrument :
MSVOA_D
ClientSampleId :

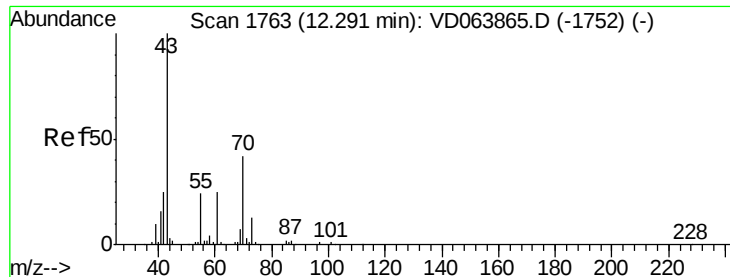
Tot Ion:106 Resp: 68
Ion Ratio Lower Upper
106 100
91 0.0 103.9 311.7#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1983
Delta R.T. 0.01 min
Lab File: VD064013.D
Acq: 18 Oct 2019 16:46

Tgt Ion:152 Resp: 1555
Ion Ratio Lower Upper
152 100
115 95.8 25.9 77.7#
150 174.3 0.0 344.2





#74

N-amvl acetate

Concen: 8.309 ug/l

RT: 12.20 min Scan# 1748

Delta R.T. -0.09 min

Lab File: VD064013.D

Acq: 18 Oct 2019 16:46

Instrument :

MSVOA_D

ClientSampleId :

Tot Ion: 43 Resp: 187

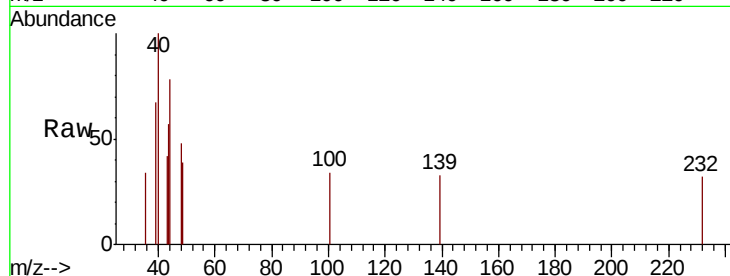
Ion Ratio Lower Upper

43 100

70 0.0 35.8 53.6#

55 0.0 19.4 29.0#

61 0.0 20.4 30.6#

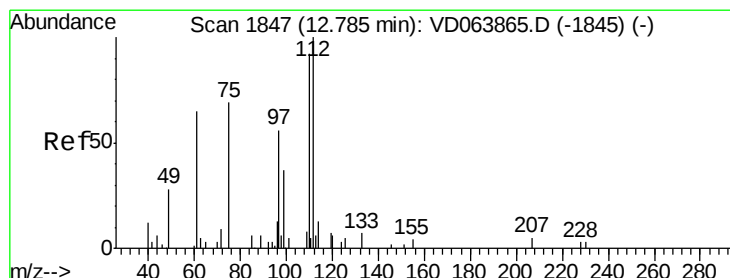
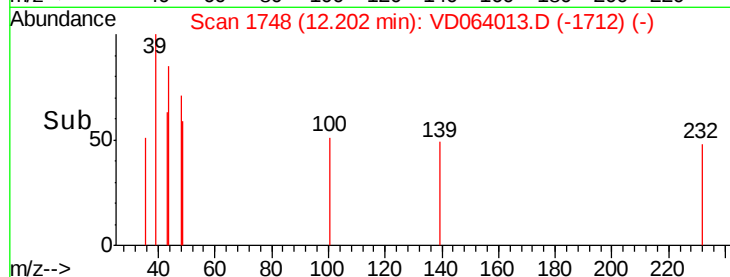
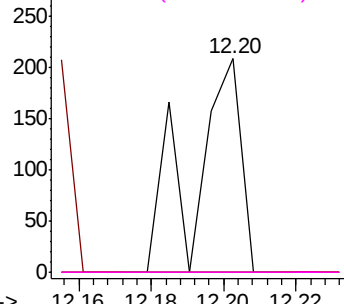


Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 61.00 (60.70 to 61.70): VDC



#76

1,2,3-Trichloropropane

Concen: 111.858 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.15 min

Lab File: VD064013.D

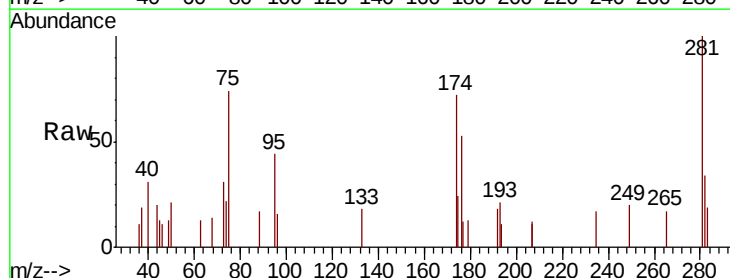
Acq: 18 Oct 2019 16:46

Tgt Ion: 75 Resp: 1165

Ion Ratio Lower Upper

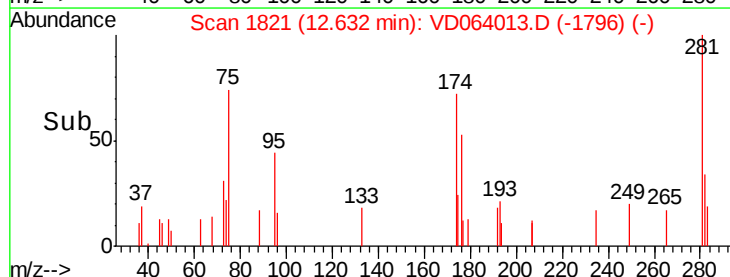
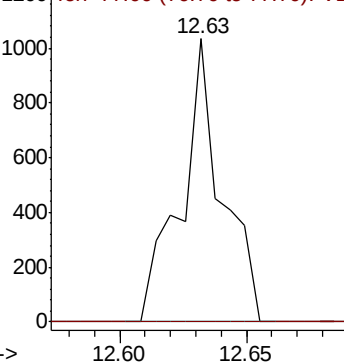
75 100

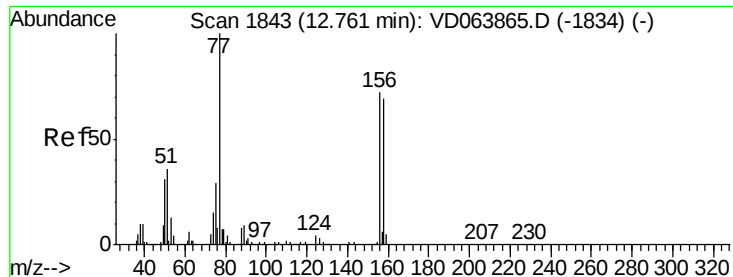
77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 77.00 (76.70 to 77.70): VDC





#77

Bromobenzene

Concen: 2.573 ug/l

RT: 12.90 min Scan# 1866

Delta R.T. 0.14 min

Lab File: VD064013.D

Acq: 18 Oct 2019 16:46

Instrument :

MSVOA_D

ClientSampleId :

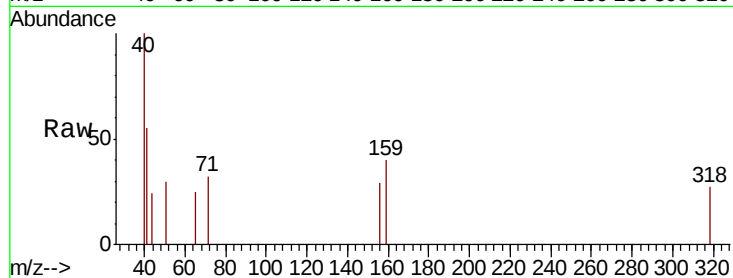
Tot Ion:156 Resp: 67

Ion Ratio Lower Upper

156 100

77 0.0 80.3 241.0#

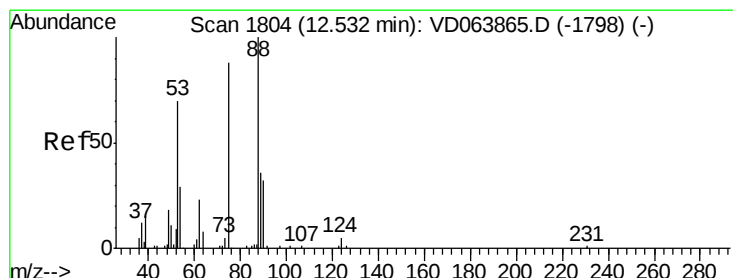
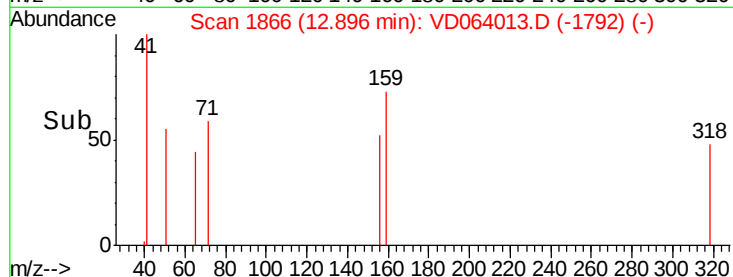
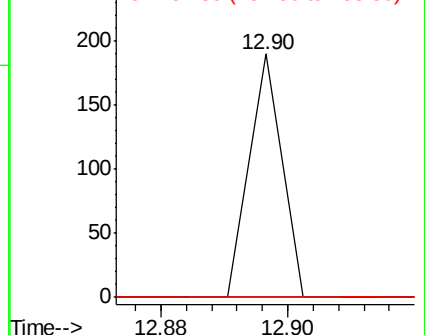
158 0.0 47.4 142.2#



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): V

Ion 157.80 (157.50 to 158.50): V



#81

trans-1,4-Dichloro-2-butene

Concen: 197.944 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.10 min

Lab File: VD064013.D

Acq: 18 Oct 2019 16:46

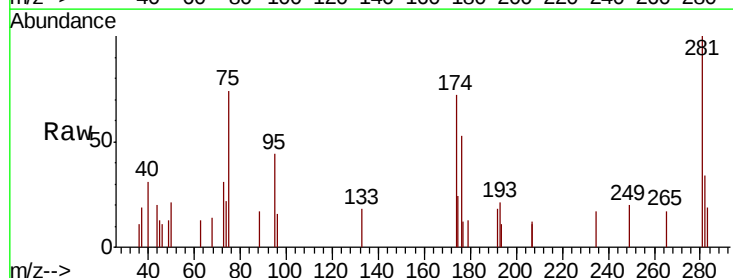
Tgt Ion: 75 Resp: 1165

Ion Ratio Lower Upper

75 100

53 0.0 75.0 112.6#

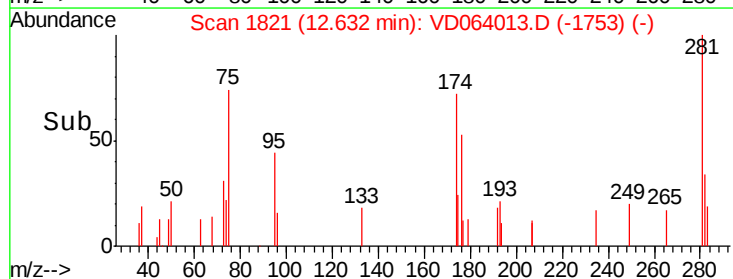
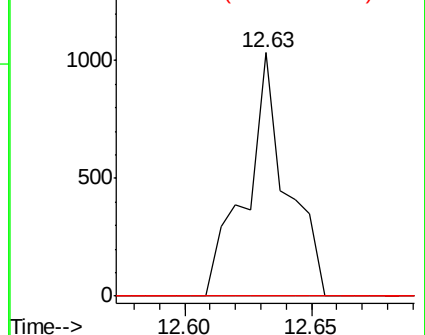
89 0.0 38.2 57.4#

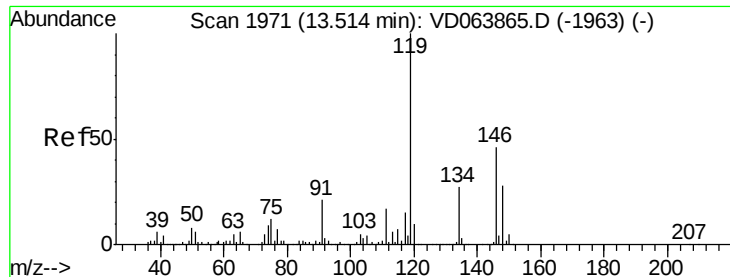


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 53.00 (52.70 to 53.70): V

Ion 88.90 (88.60 to 89.60): V

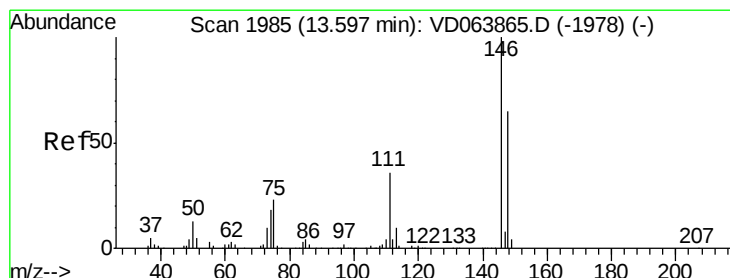
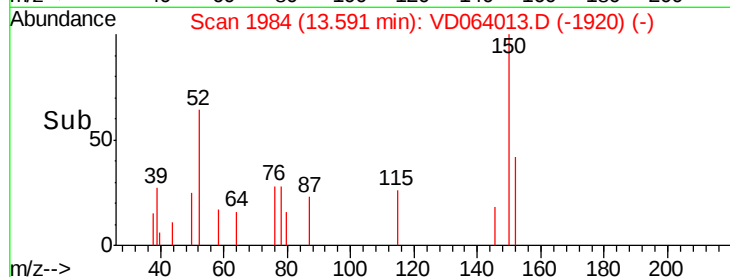
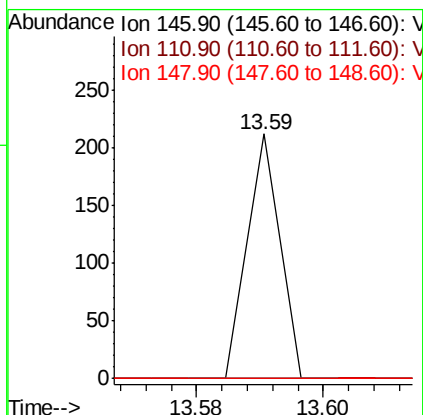
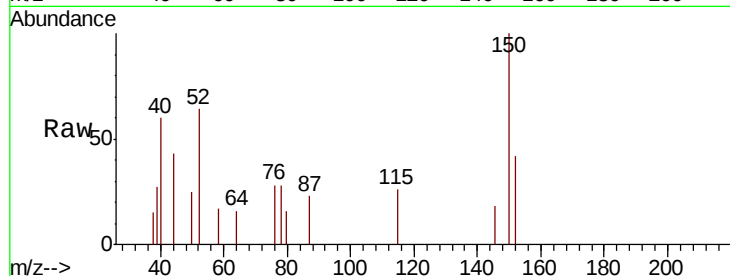




#87
 1,3-Dichlorobenzene
 Concen: 1.457 ug/l
 RT: 13.59 min Scan# 1984
 Delta R.T. 0.08 min
 Lab File: VD064013.D
 Acq: 18 Oct 2019 16:46

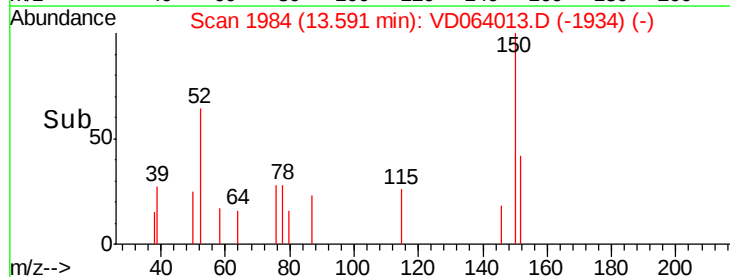
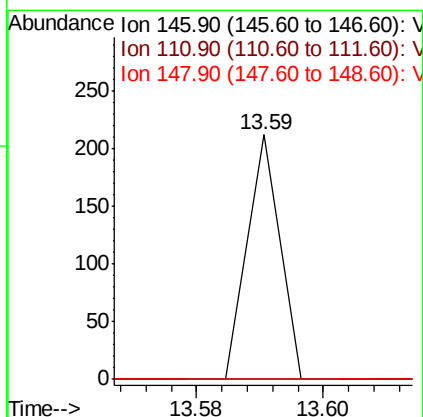
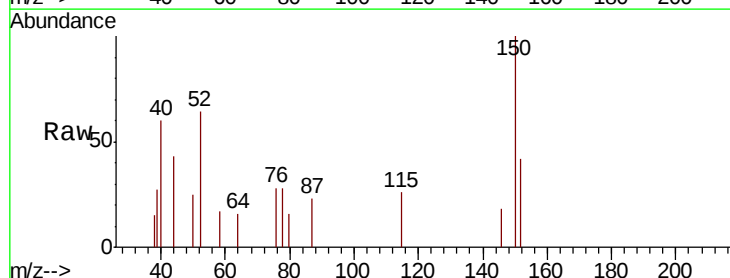
Instrument :
 MSVOA_D
 ClientSampleId :

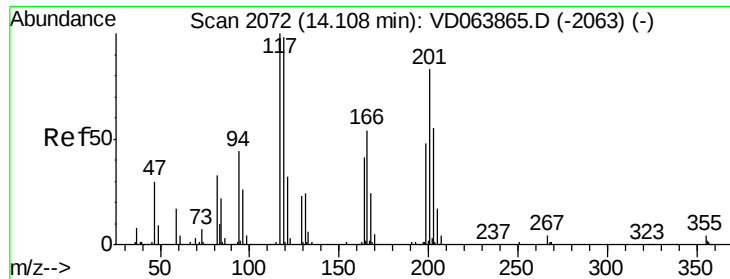
Tot Ion:146 Resp: 75
 Ion Ratio Lower Upper
 146 100
 111 0.0 18.3 54.9#
 148 0.0 31.8 95.4#



#88
 1,4-Dichlorobenzene
 Concen: 1.477 ug/l
 RT: 13.59 min Scan# 1984
 Delta R.T. -0.01 min
 Lab File: VD064013.D
 Acq: 18 Oct 2019 16:46

Tgt Ion:146 Resp: 75
 Ion Ratio Lower Upper
 146 100
 111 0.0 18.6 56.0#
 148 0.0 32.6 98.0#





#90

Hexachloroethane

Concen: 3.812 ug/l

RT: 14.17 min Scan# 2082

Delta R.T. 0.06 min

Lab File: VD064013.D

Acq: 18 Oct 2019 16:46

Instrument :

MSVOA_D

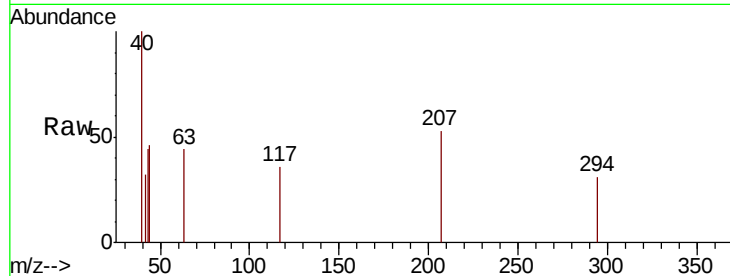
ClientSampleId :

Tot Ion:117 Resp: 68

Ion Ratio Lower Upper

117 100

201 0.0 40.6 121.7#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

14.17

200

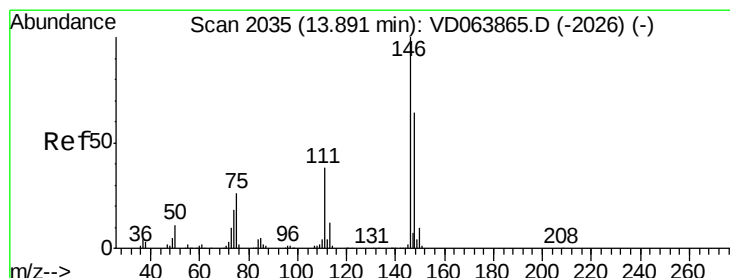
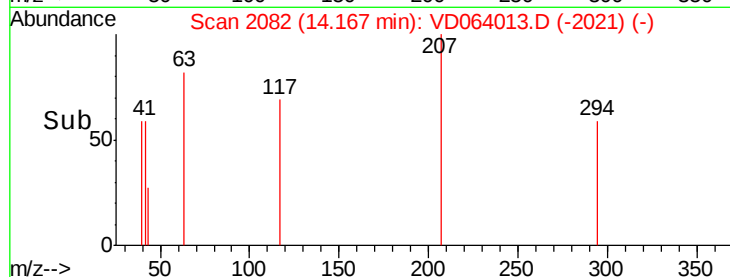
150

100

50

0

Time-->



#91

1,2-Dichlorobenzene

Concen: 1.421 ug/l

RT: 14.09 min Scan# 2069

Delta R.T. 0.20 min

Lab File: VD064013.D

Acq: 18 Oct 2019 16:46

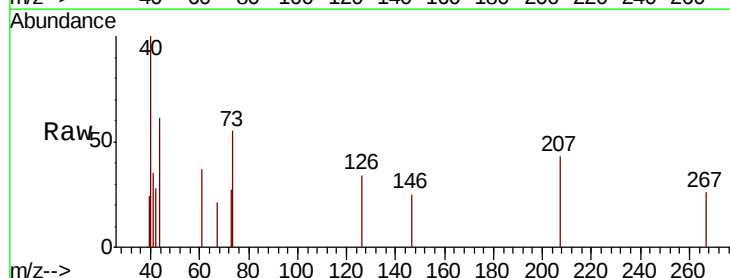
Tgt Ion:146 Resp: 63

Ion Ratio Lower Upper

146 100

111 0.0 18.6 55.6#

148 0.0 31.6 95.0#



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

14.09

200

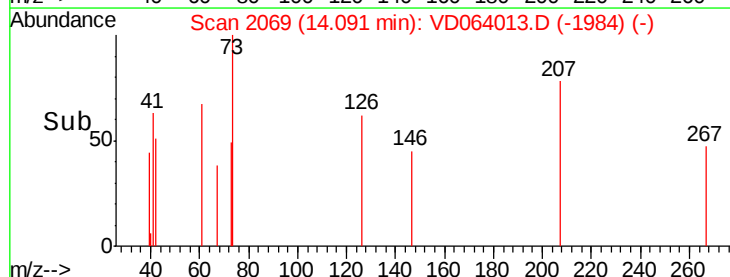
150

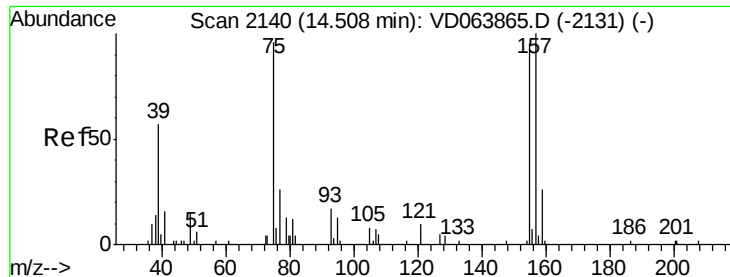
100

50

0

Time-->





#92

1,2-Dibromo-3-Chloropropane

Concen: 20.114 ug/l

RT: 14.54 min Scan# 2146

Delta R.T. 0.04 min

Lab File: VD064013.D

Acq: 18 Oct 2019 16:46

Instrument :

MSVOA_D

ClientSampleId :

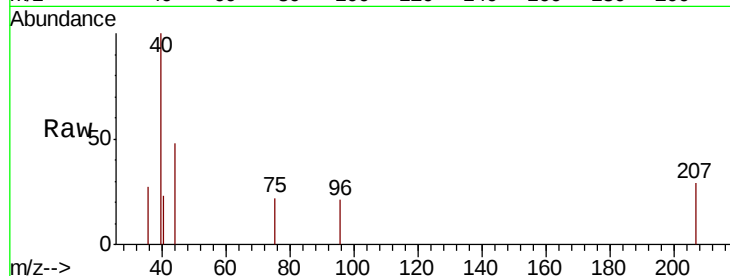
Tot Ion: 75 Resp: 61

Ion Ratio Lower Upper

75 100

155 0.0 43.9 131.6#

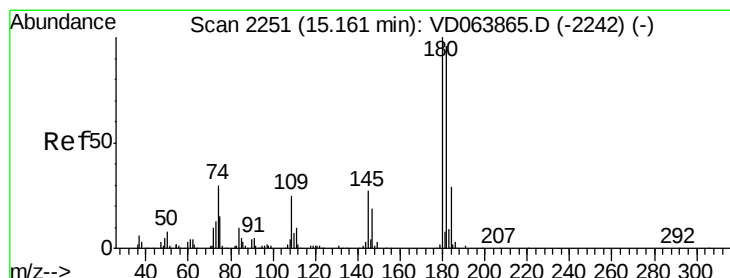
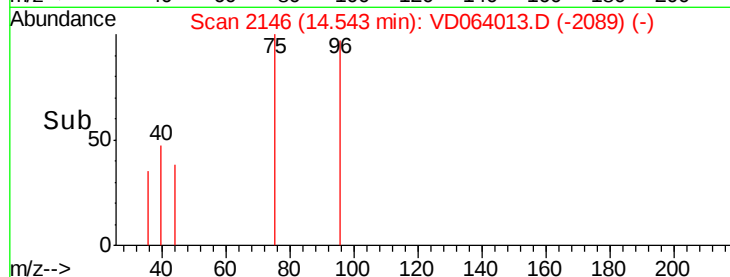
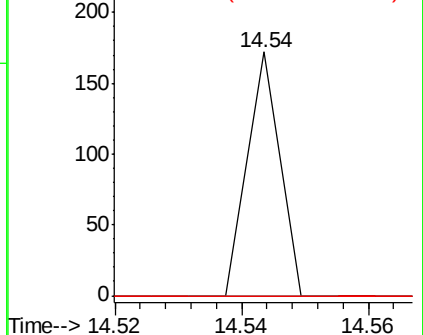
157 0.0 56.0 167.9#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V



#93

1,2,4-Trichlorobenzene

Concen: 1.666 ug/l

RT: 15.07 min Scan# 2235

Delta R.T. -0.09 min

Lab File: VD064013.D

Acq: 18 Oct 2019 16:46

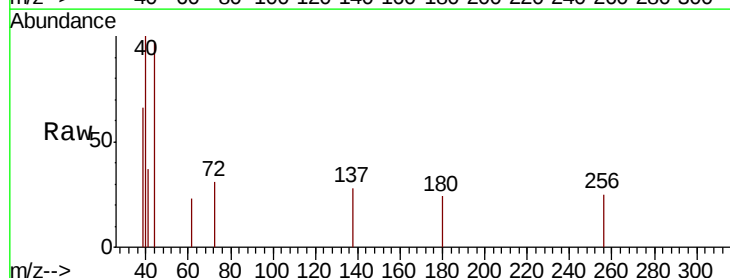
Tgt Ion: 180 Resp: 57

Ion Ratio Lower Upper

180 100

182 0.0 47.4 142.3#

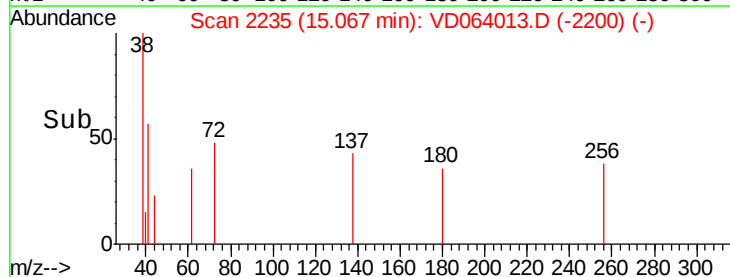
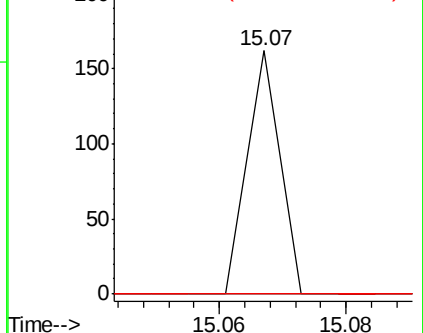
145 0.0 13.9 41.7#

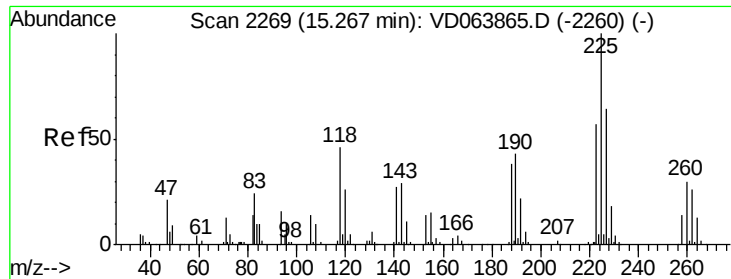


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V





#94

Hexachlorobutadiene

Concen: 3.230 ug/l

RT: 15.26 min Scan# 2267

Delta R.T. -0.01 min

Lab File: VD064013.D

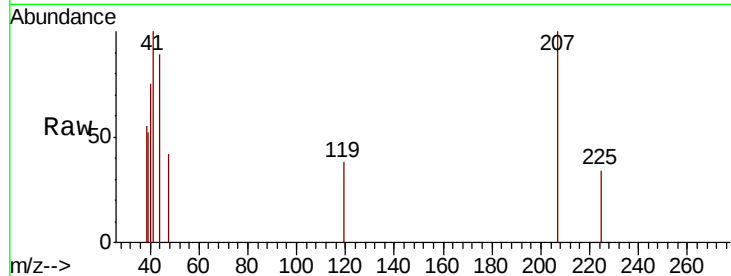
Acq: 18 Oct 2019 16:46

Instrument :

MSVOA_D

ClientSampleId :

Tot Ion	Ratio	Lower	Upper
225	100		
223	101.6	29.5	88.6#
227	0.0	30.8	92.4#



Abundance

Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V

