

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD101519\
 Data File : VD063968.D
 Acq On : 15 Oct 2019 13:27
 Operator : VA/SY
 Sample : K5358-02RE
 Misc : 5.05G/5.00ml/MSVOA D/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 20190897-AMENDED-COMP-KM-CA

Quant Time: Oct 16 02:14:56 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	169177	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	309580	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	301295	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	141201	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.33	65	90930	55.21	ug/l	0.00
Spiked Amount			Recovery	=	110.42%	
35) Dibromofluoromethane	7.92	113	56131	29.67	ug/l	0.00
Spiked Amount			Recovery	=	59.34%	
50) Toluene-d8	10.34	98	397053	51.71	ug/l	0.00
Spiked Amount			Recovery	=	103.42%	
62) 4-Bromofluorobenzene	12.63	95	131464	49.27	ug/l	0.00
Spiked Amount			Recovery	=	98.54%	

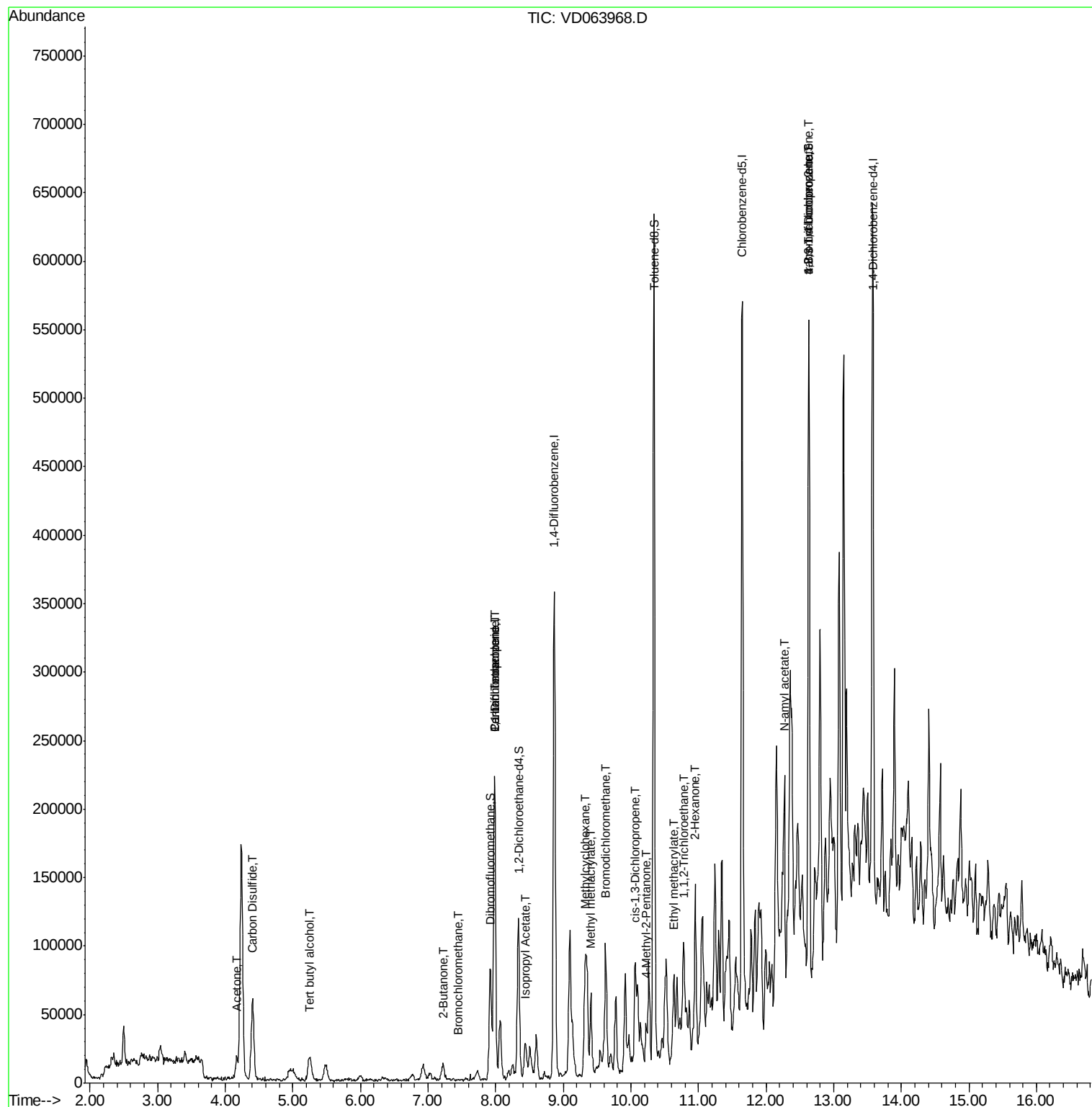
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.21	50	921	Below Cal	#	66
11) Tert butyl alcohol	5.25	59	33964	298.375	ug/l #	87
16) Acetone	4.17	43	28662	66.839	ug/l	93
17) Carbon Disulfide	4.40	76	122266	23.723	ug/l #	93
20) Methylene Chloride	4.96	84	4107	Below Cal	#	48
25) 2-Butanone	7.23	43	8329	16.389	ug/l	96
28) Bromochloromethane	7.44	49	64	1.919	ug/l #	10
31) Cyclohexane	7.98	56	6956	Below Cal	#	70
36) 1,1-Dichloropropene	7.98	75	13202	4.664	ug/l #	49
37) Ethyl Acetate	7.32	43	274	Below Cal	#	75
38) Carbon Tetrachloride	7.98	117	16377	5.725	ug/l #	21
39) Methylcyclohexane	9.32	83	16581	4.764	ug/l #	26
43) Isopropyl Acetate	8.44	43	8742	3.683	ug/l #	49
47) Bromodichloromethane	9.63	83	6667	2.290	ug/l #	32
48) Methyl methacrylate	9.41	41	11754	10.334	ug/l #	43
51) 4-Methyl-2-Pentanone	10.23	43	1789	1.453	ug/l #	82
54) cis-1,3-Dichloropropene	10.06	75	3361	1.028	ug/l #	55
55) 1,1,2-Trichloroethane	10.78	97	20899	13.090	ug/l #	27
56) Ethyl methacrylate	10.64	69	18291	9.047	ug/l	87
59) 2-Hexanone	10.96	43	49754	55.869	ug/l #	28
74) N-amyl acetate	12.27	43	40504	19.819	ug/l #	42
76) 1,2,3-Trichloropropane	12.63	75	64425	68.122	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.63	75	64425	120.549	ug/l #	16
92) 1,2-Dibromo-3-Chloropropan	14.37	75	179	Below Cal		77

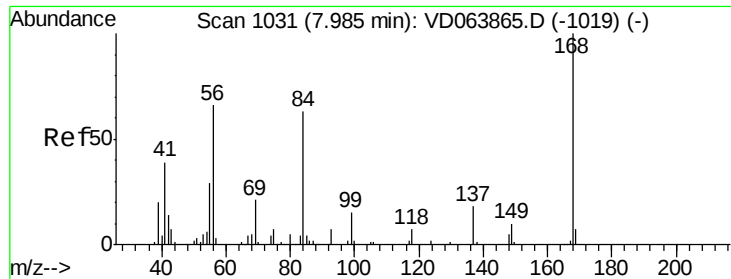
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Sat Oct 05 03:51:17 2019
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.00 min

Lab File: VD063968.D

Acq: 15 Oct 2019 13:27

Instrument :

MSVOA_D

ClientSampleId :

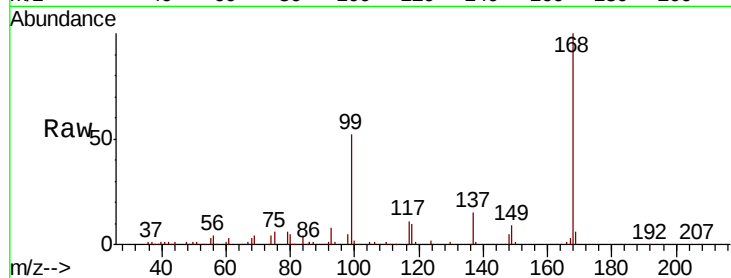
20190897-AMENDED-COMP-KM-CA

Tot Ion:168 Resp: 169177

Ion Ratio Lower Upper

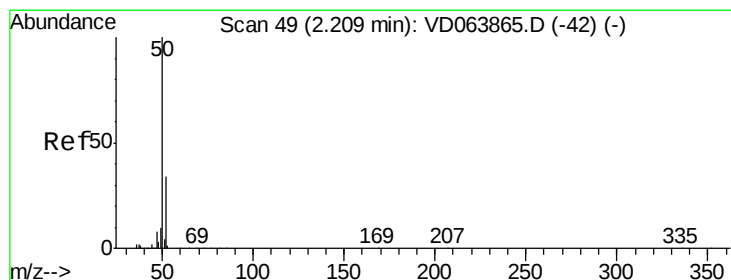
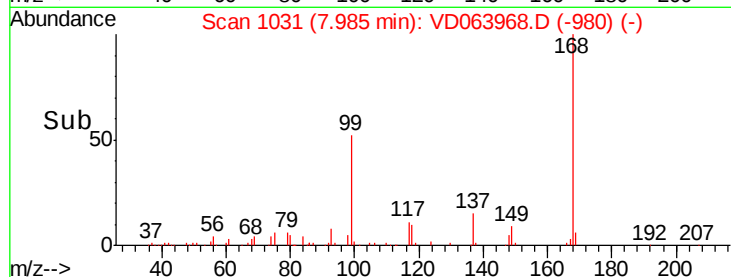
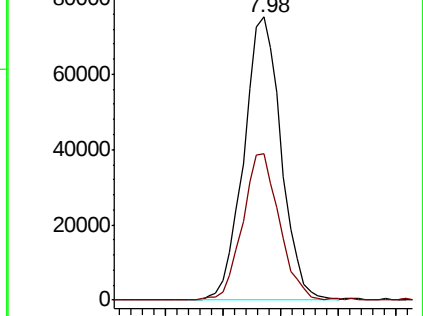
168 100

99 51.4 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: Below Cal

RT: 2.21 min Scan# 50

Delta R.T. 0.01 min

Lab File: VD063968.D

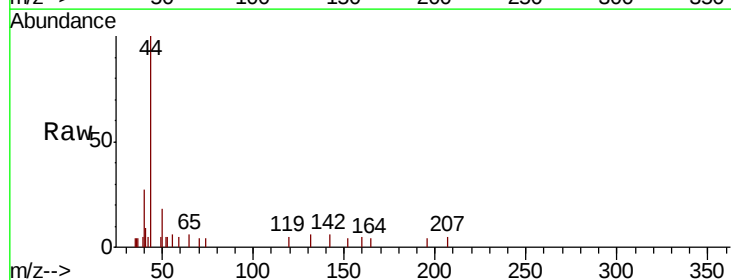
Acq: 15 Oct 2019 13:27

Tgt Ion: 50 Resp: 921

Ion Ratio Lower Upper

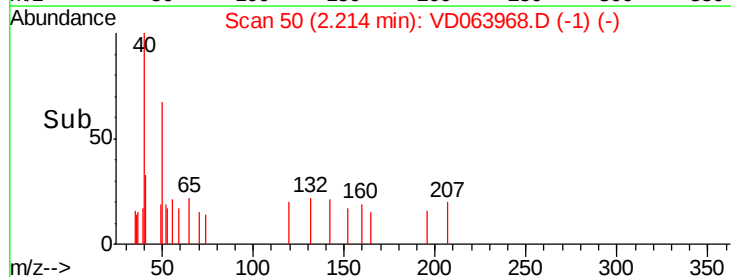
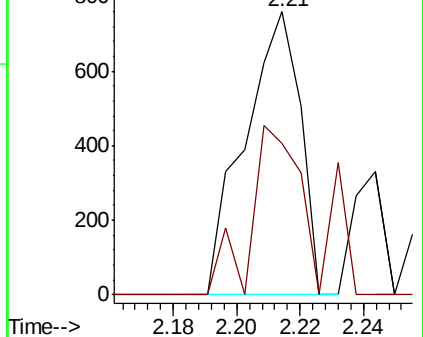
50 100

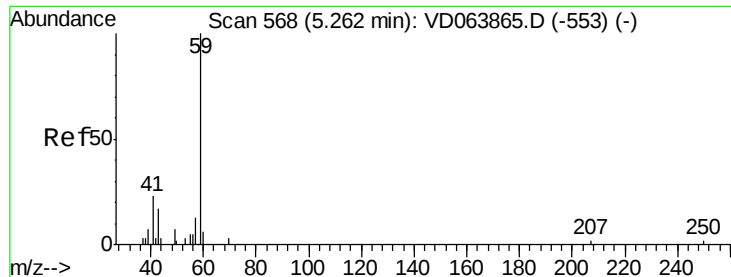
52 53.8 27.5 41.3#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



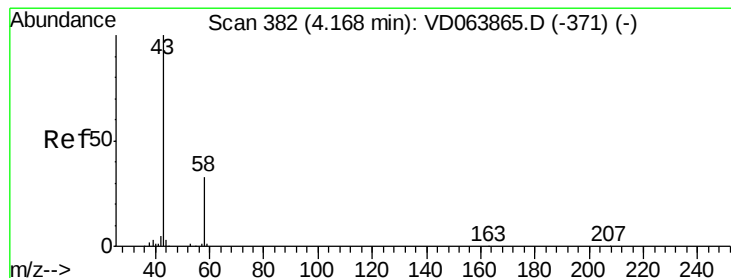
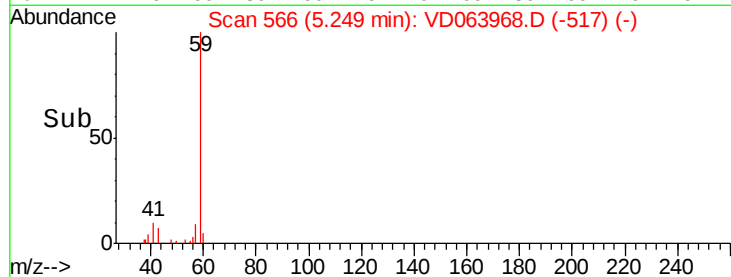
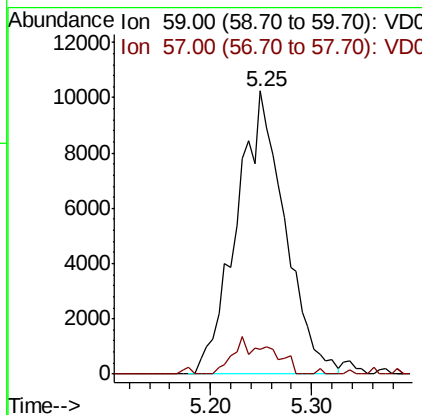
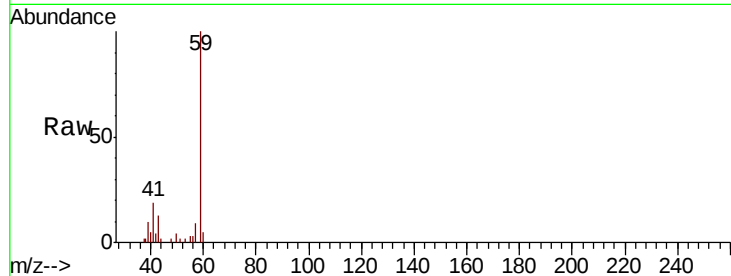


#11

Tert butyl alcohol
 Concen: 298.375 ug/l
 RT: 5.25 min Scan# 566
 Delta R.T. -0.01 min
 Lab File: VD063968.D
 Acq: 15 Oct 2019 13:27

Instrument :
 MSVOA_D
 ClientSampleId :
 20190897-AMENDED-COMP-KM-CA

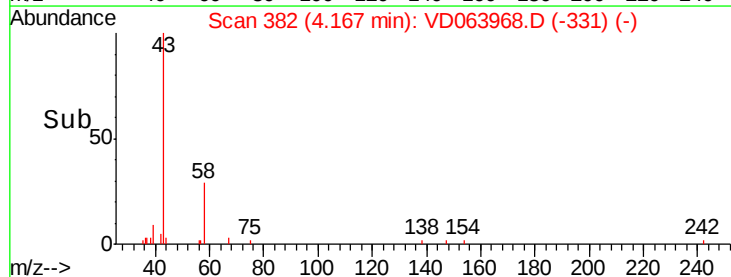
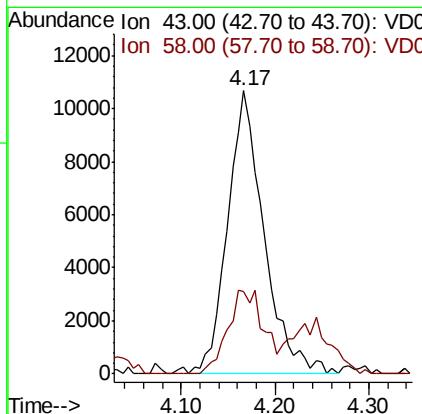
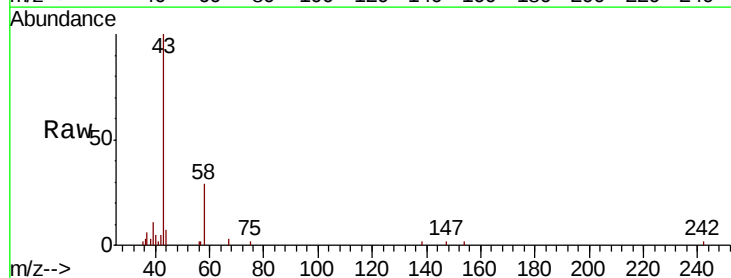
Tot Ion: 59 Resp: 33964
 Ion Ratio Lower Upper
 59 100
 57 6.2 8.8 13.2#

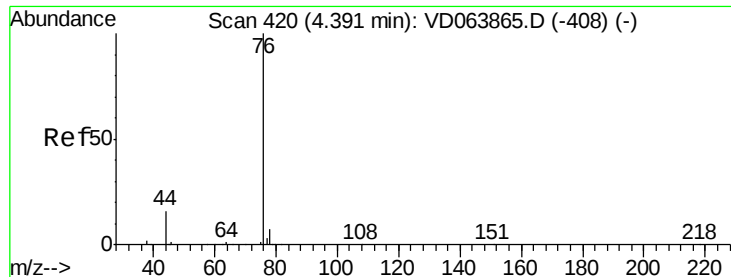


#16

Acetone
 Concen: 66.839 ug/l
 RT: 4.17 min Scan# 382
 Delta R.T. -0.00 min
 Lab File: VD063968.D
 Acq: 15 Oct 2019 13:27

Tgt Ion: 43 Resp: 28662
 Ion Ratio Lower Upper
 43 100
 58 29.1 26.2 39.4

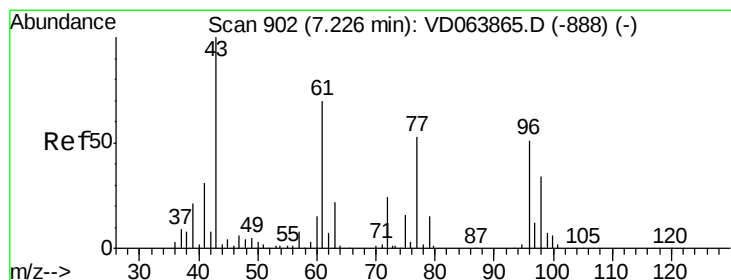
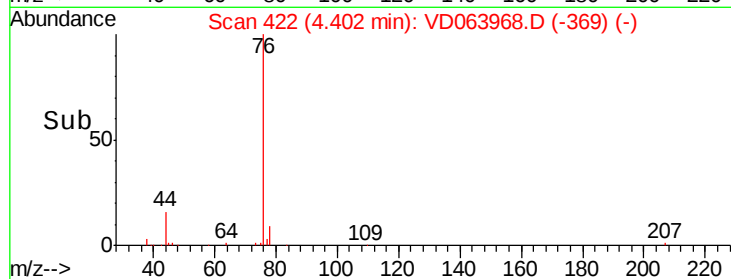
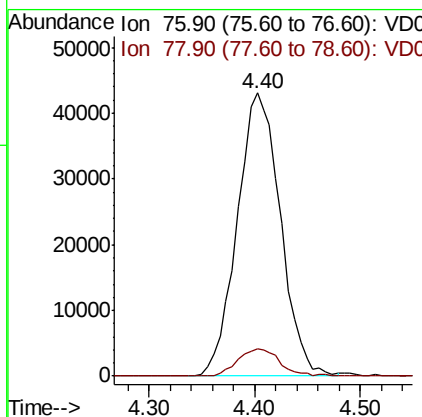
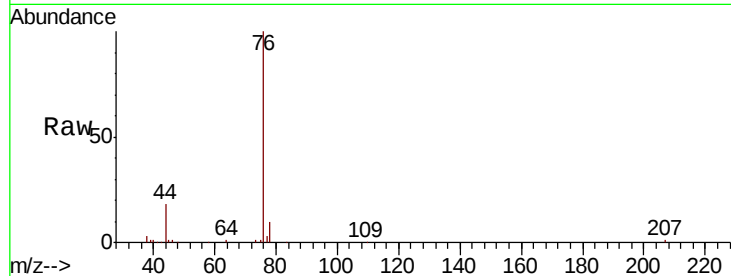




#17
Carbon Disulfide
Concen: 23.723 ug/l
RT: 4.40 min Scan# 422
Delta R.T. 0.01 min
Lab File: VD063968.D
Acq: 15 Oct 2019 13:27

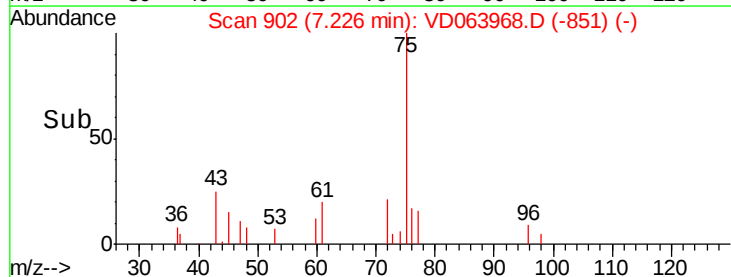
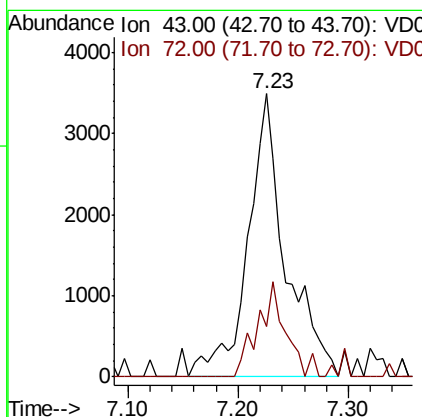
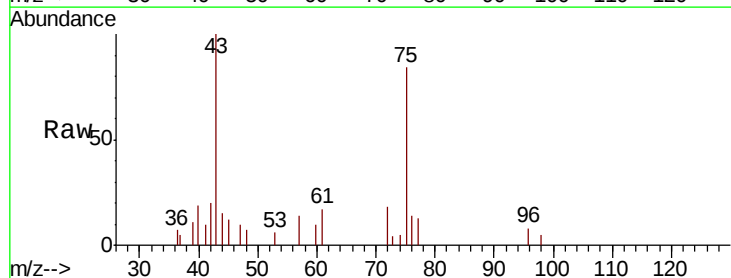
Instrument :
MSVOA_D
ClientSampleId :
20190897-AMENDED-COMP-KM-CA

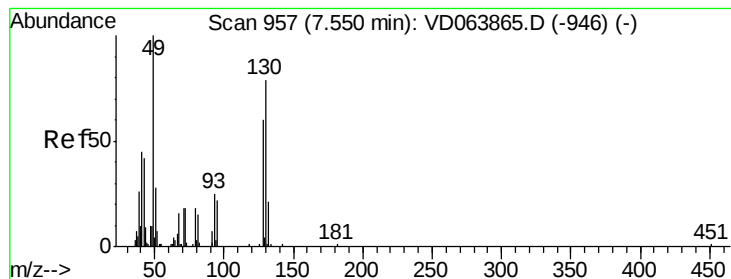
Tot Ion: 76 Resp: 122266
Ion Ratio Lower Upper
76 100
78 9.6 5.8 8.8#



#25
2-Butanone
Concen: 16.389 ug/l
RT: 7.23 min Scan# 902
Delta R.T. -0.00 min
Lab File: VD063968.D
Acq: 15 Oct 2019 13:27

Tgt Ion: 43 Resp: 8329
Ion Ratio Lower Upper
43 100
72 22.1 19.2 28.8





#28

Bromochloromethane

Concen: 1.919 ug/l

RT: 7.44 min Scan# 939

Delta R.T. -0.11 min

Lab File: VD063968.D

Acq: 15 Oct 2019 13:27

Instrument :

MSVOA_D

ClientSampleId :

20190897-AMENDED-COMP-KM-CA

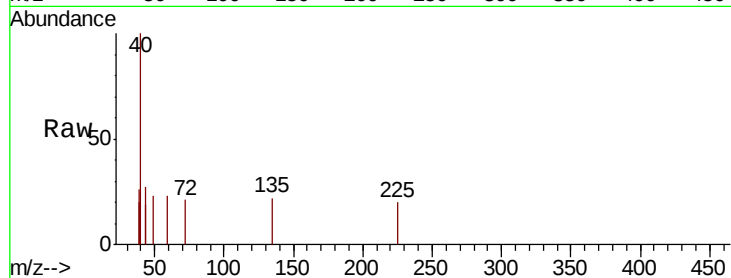
Tot Ion: 49 Resp: 64

Ion Ratio Lower Upper

49 100

129 0.0 0.0 5.6

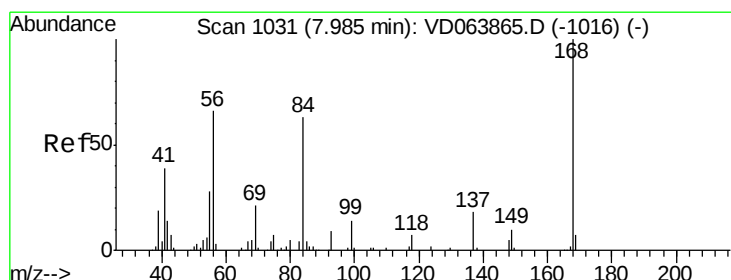
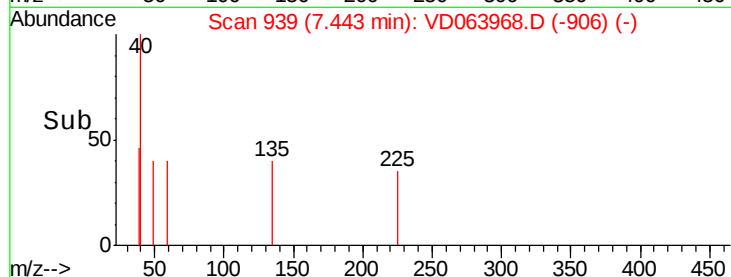
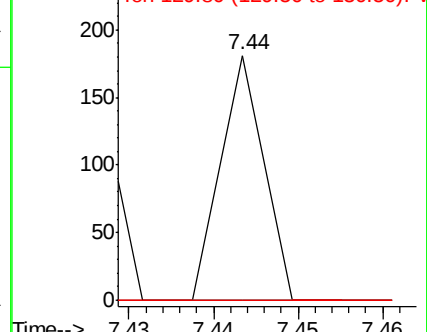
130 0.0 66.8 100.2#



Abundance Ion 48.90 (48.60 to 49.60): VDC

Ion 128.80 (128.50 to 129.50): VDC

Ion 129.80 (129.50 to 130.50): VDC



#31

Cyclohexane

Concen: Below Cal

RT: 7.98 min Scan# 1031

Delta R.T. -0.00 min

Lab File: VD063968.D

Acq: 15 Oct 2019 13:27

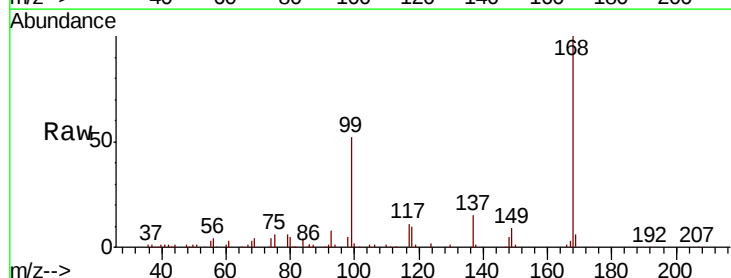
Tgt Ion: 56 Resp: 6956

Ion Ratio Lower Upper

56 100

69 98.1 25.0 37.4#

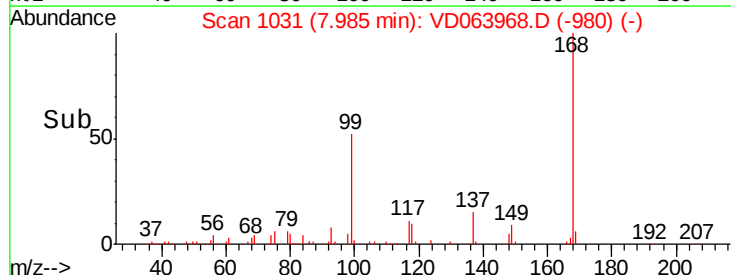
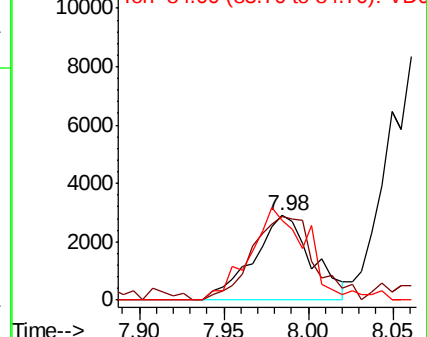
84 94.7 76.3 114.5

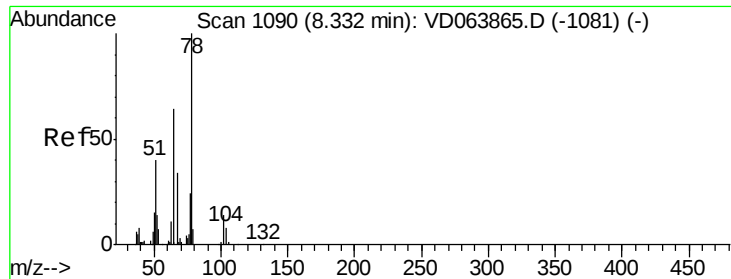


Abundance Ion 56.00 (55.70 to 56.70): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 84.00 (83.70 to 84.70): VDC





#33

1,2-Dichloroethane-d4

Concen: 55.207 ug/l

RT: 8.33 min Scan# 1090

Delta R.T. -0.00 min

Lab File: VD063968.D

Acq: 15 Oct 2019 13:27

Instrument :

MSVOA_D

ClientSampleId :

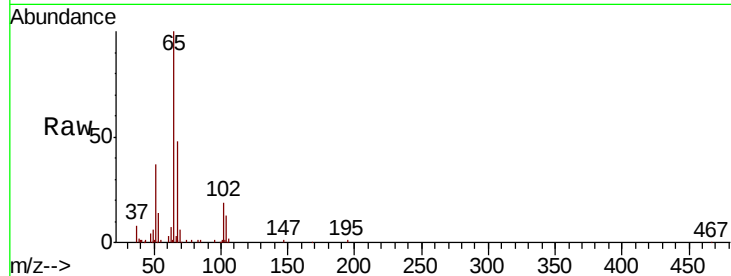
20190897-AMENDED-COMP-KM-CA

Tot Ion: 65 Resp: 90930

Ion Ratio Lower Upper

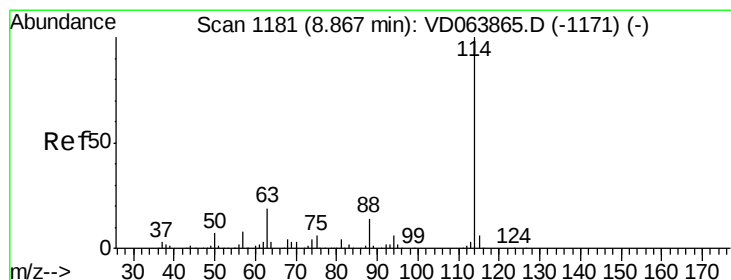
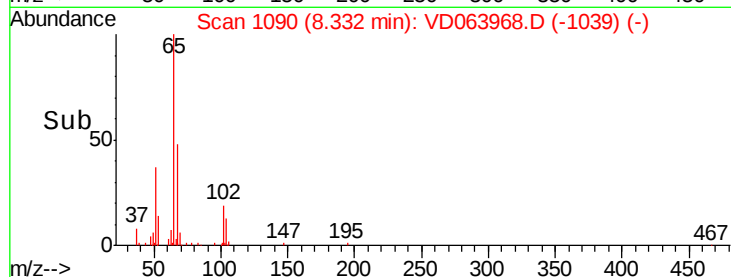
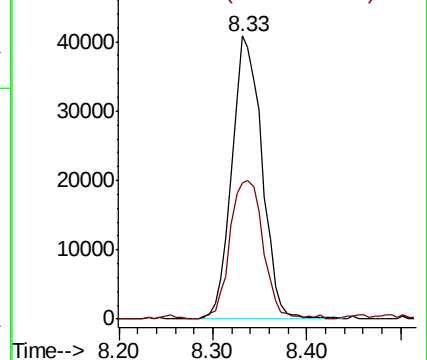
65 100

67 53.9 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: 8.87 min Scan# 1181

Delta R.T. -0.00 min

Lab File: VD063968.D

Acq: 15 Oct 2019 13:27

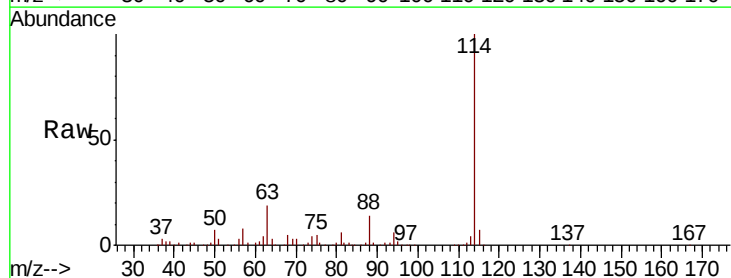
Tgt Ion: 114 Resp: 309580

Ion Ratio Lower Upper

114 100

63 19.1 0.0 38.4

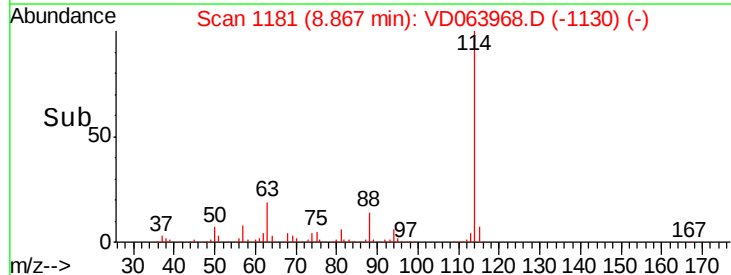
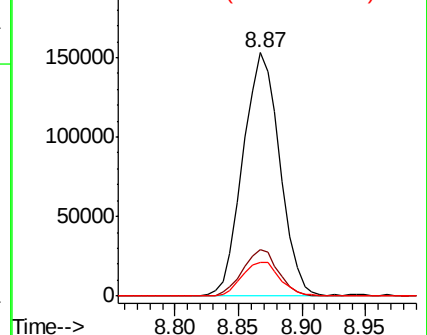
88 13.9 0.0 27.4

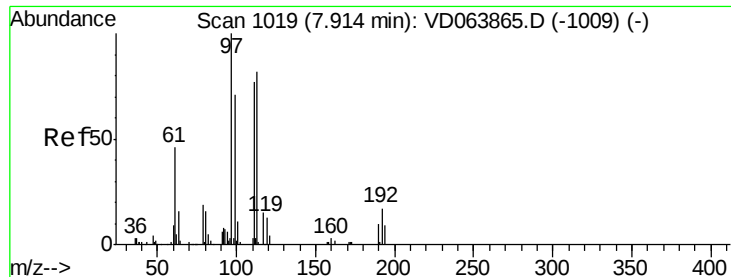


Abundance Ion 113.90 (113.60 to 114.60): VDC

Ion 63.00 (62.70 to 63.70): VDC

Ion 87.90 (87.60 to 88.60): VDC

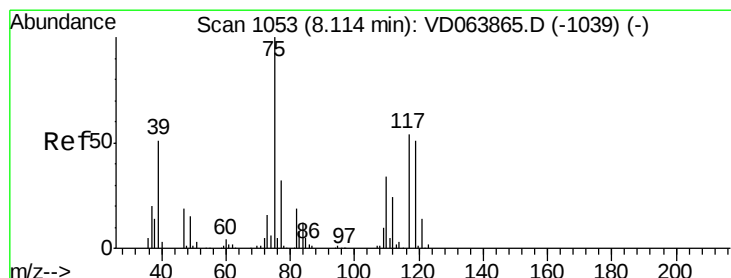
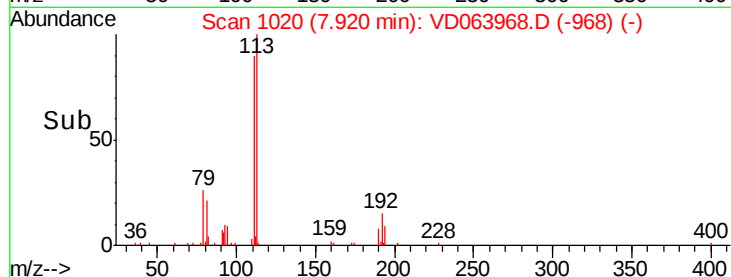
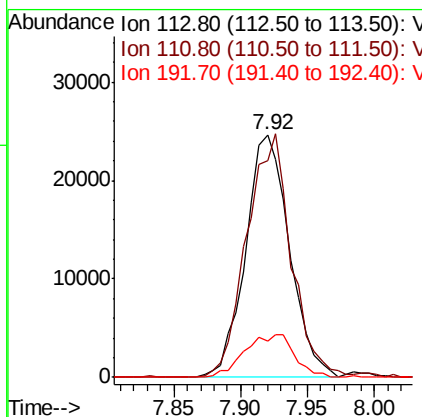
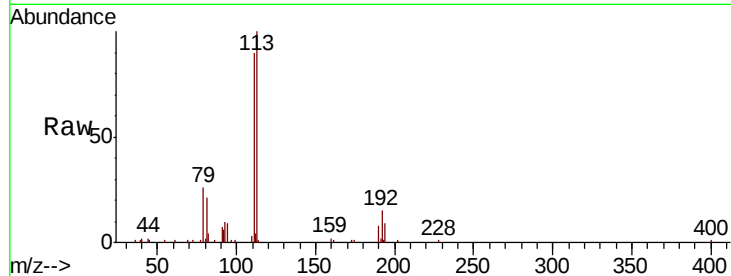




#35
Dibromofluoromethane
Concen: 29.669 ug/l
RT: 7.92 min Scan# 1020
Delta R.T. 0.01 min
Lab File: VD063968.D
Acq: 15 Oct 2019 13:27

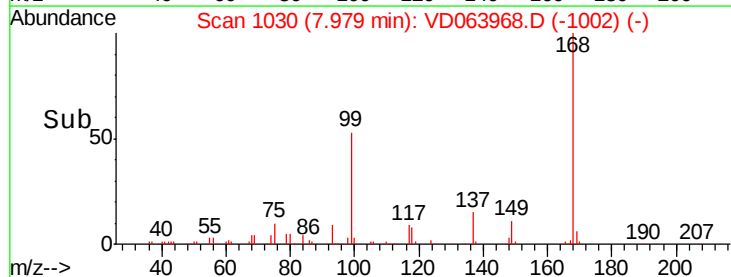
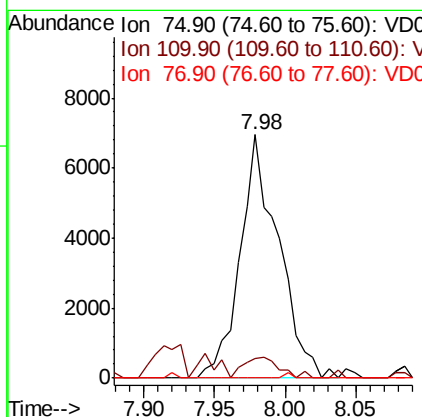
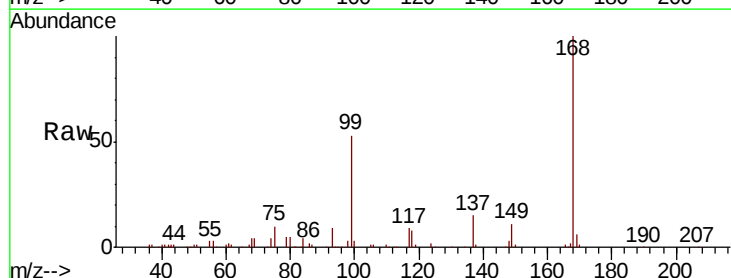
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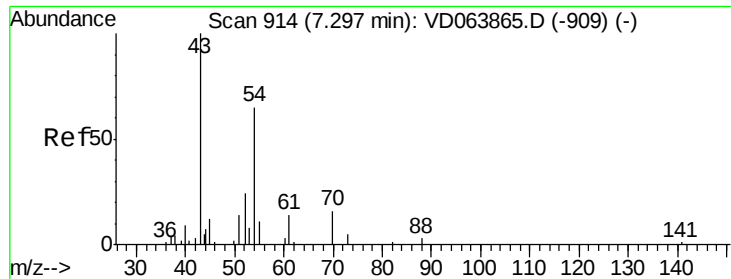
Tot Ion:113 Resp: 56131
Ion Ratio Lower Upper
113 100
111 101.5 82.6 123.8
192 20.2 17.1 25.7



#36
1,1-Dichloropropene
Concen: 4.664 ug/l
RT: 7.98 min Scan# 1030
Delta R.T. -0.14 min
Lab File: VD063968.D
Acq: 15 Oct 2019 13:27

Tgt Ion: 75 Resp: 13202
Ion Ratio Lower Upper
75 100
110 8.2 17.4 52.3#
77 0.0 25.4 38.0#

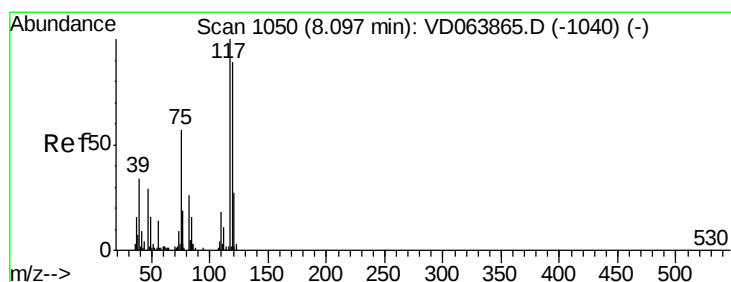
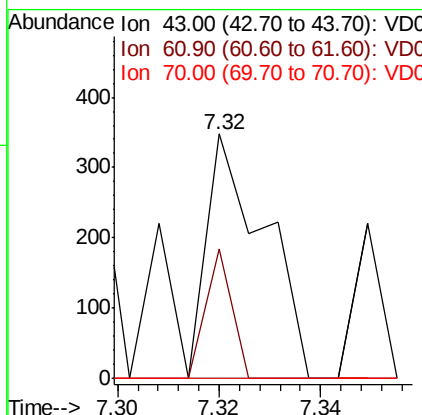
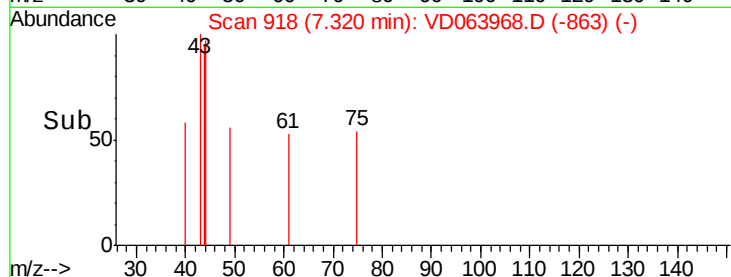
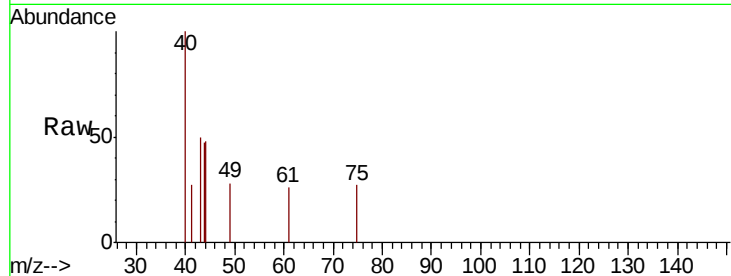




#37
Ethyl Acetate
Concen: Below Cal
RT: 7.32 min Scan# 918
Delta R.T. 0.02 min
Lab File: VD063968.D
Acq: 15 Oct 2019 13:27

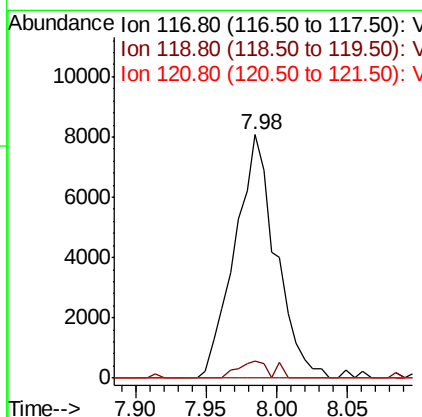
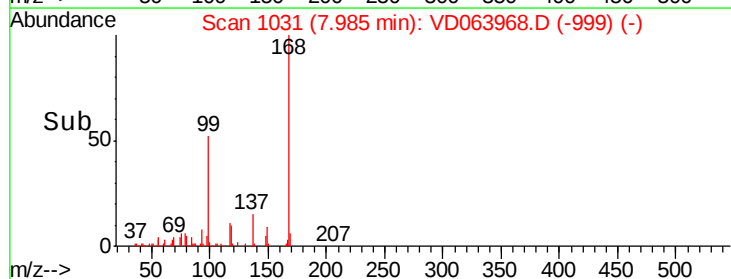
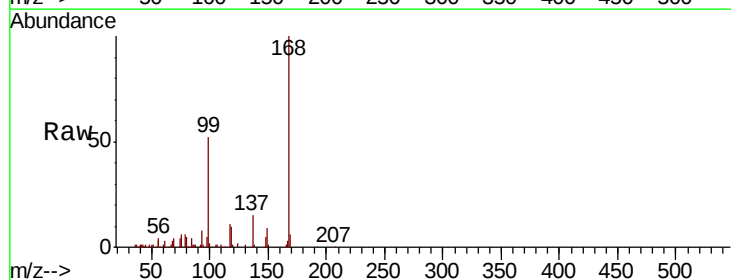
Instrument :
MSVOA_D
ClientSampleId :
20190897-AMENDED-COMP-KM-CA

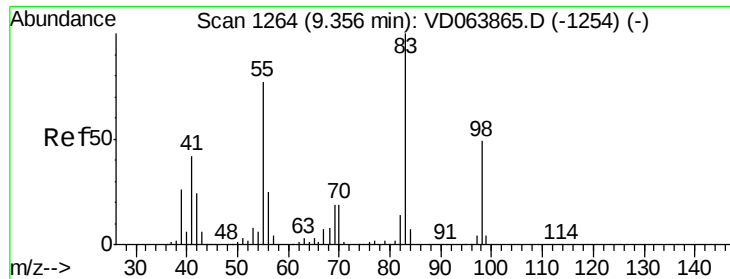
Tot Ion: 43 Resp: 274
Ion Ratio Lower Upper
43 100
61 23.7 11.5 17.3#
70 0.0 8.2 12.4#



#38
Carbon Tetrachloride
Concen: 5.725 ug/l
RT: 7.98 min Scan# 1031
Delta R.T. -0.11 min
Lab File: VD063968.D
Acq: 15 Oct 2019 13:27

Tgt Ion: 117 Resp: 16377
Ion Ratio Lower Upper
117 100
119 6.8 70.8 106.2#
121 0.0 21.4 32.0#

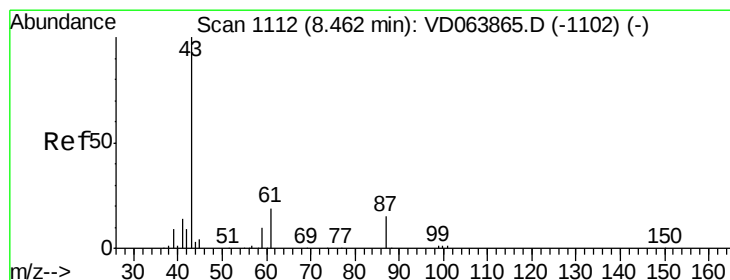
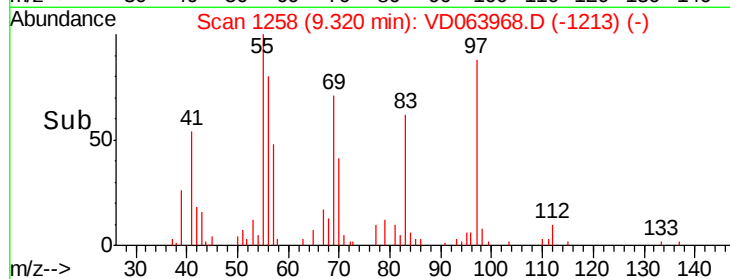
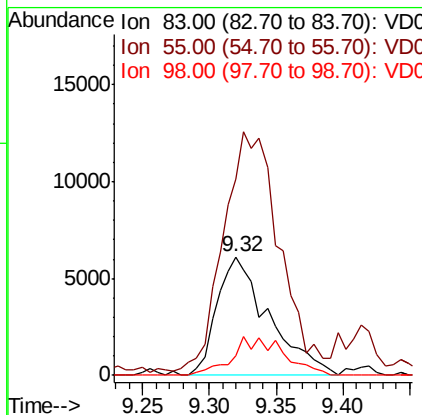
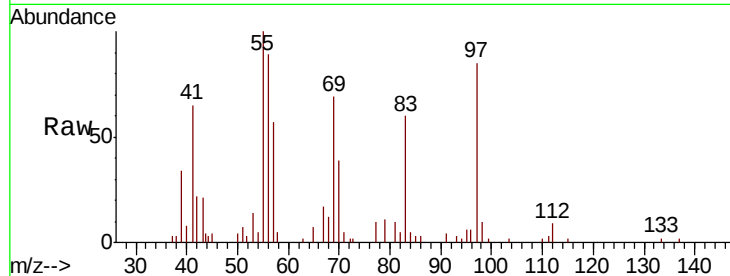




#39
Methvlcvclohexane
Concen: 4.764 ug/l
RT: 9.32 min Scan# 1258
Delta R.T. -0.04 min
Lab File: VD063968.D
Acq: 15 Oct 2019 13:27

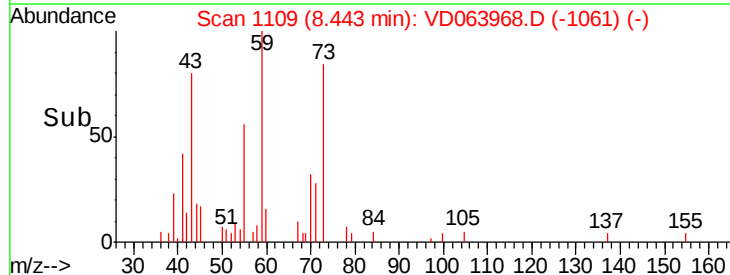
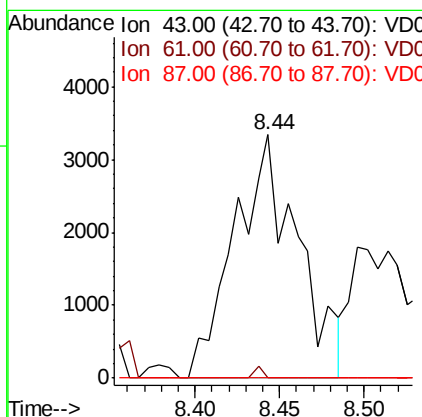
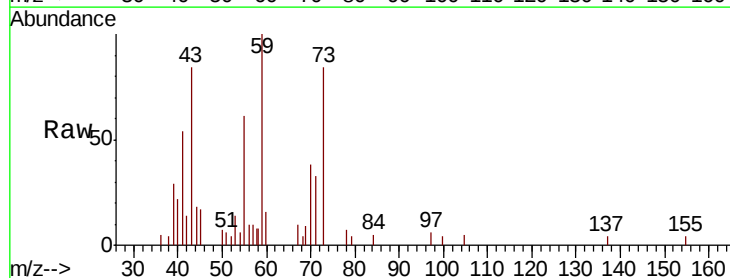
Instrument :
MSVOA_D
ClientSampleId :
20190897-AMENDED-COMP-KM-CA

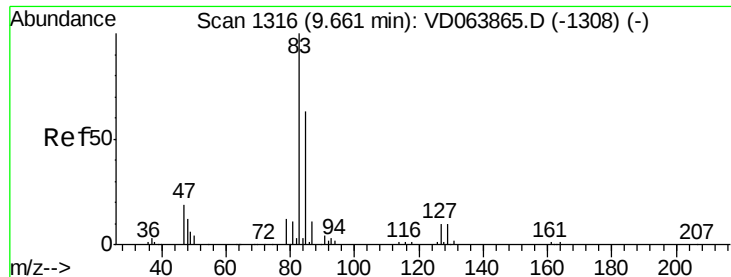
Tot Ion: 83 Resp: 16581
Ion Ratio Lower Upper
83 100
55 154.7 61.3 91.9#
98 16.1 39.3 58.9#



#43
Isopropyl Acetate
Concen: 3.683 ug/l
RT: 8.44 min Scan# 1109
Delta R.T. -0.02 min
Lab File: VD063968.D
Acq: 15 Oct 2019 13:27

Tgt Ion: 43 Resp: 8742
Ion Ratio Lower Upper
43 100
61 0.0 25.7 38.5#
87 0.0 11.6 17.4#





#47

Bromodichloromethane

Concen: 2.290 ug/l

RT: 9.63 min Scan# 1311

Delta R.T. -0.03 min

Lab File: VD063968.D

Acq: 15 Oct 2019 13:27

Instrument :

MSVOA_D

ClientSampleId :

20190897-AMENDED-COMP-KM-CA

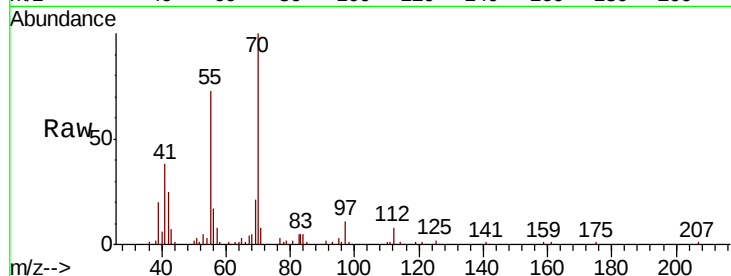
Tot Ion: 83 Resp: 6667

Ion Ratio Lower Upper

83 100

85 5.2 50.2 75.2#

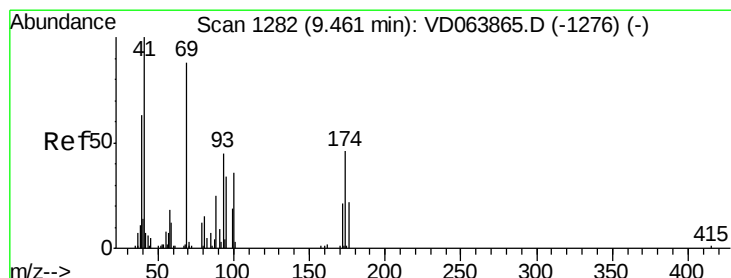
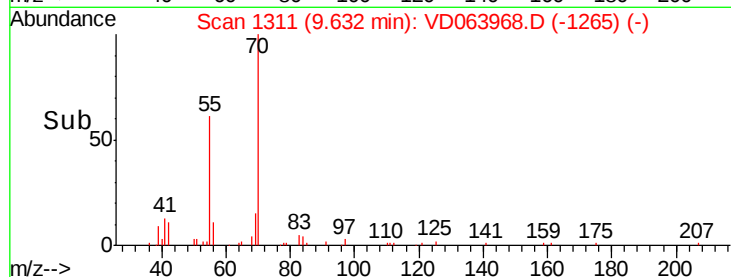
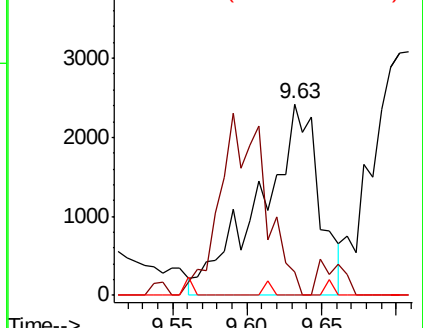
127 0.0 7.6 11.4#



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: 10.334 ug/l

RT: 9.41 min Scan# 1273

Delta R.T. -0.05 min

Lab File: VD063968.D

Acq: 15 Oct 2019 13:27

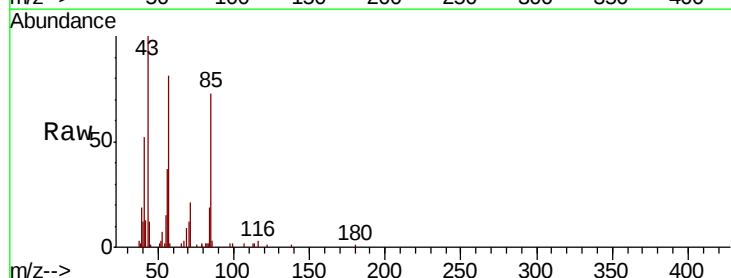
Tgt Ion: 41 Resp: 11754

Ion Ratio Lower Upper

41 100

69 12.6 75.1 112.7#

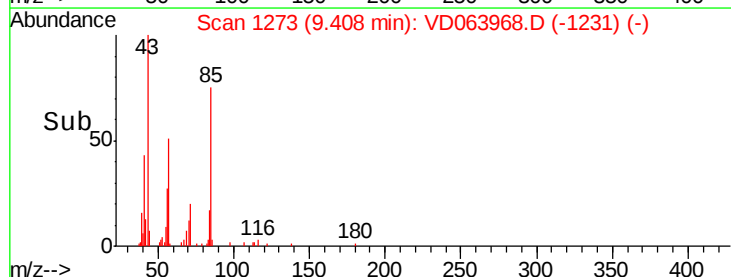
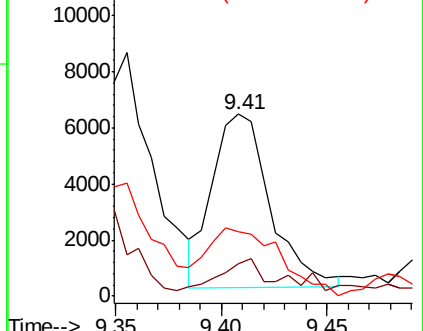
39 49.6 50.2 75.2#

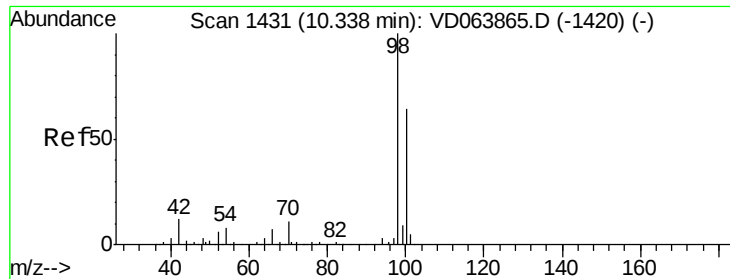


Abundance Ion 41.00 (40.70 to 41.70): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 39.00 (38.70 to 39.70): VDC

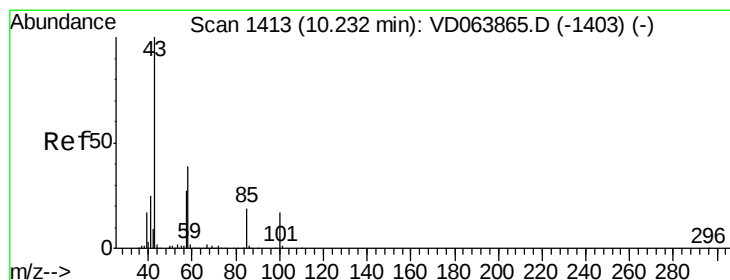
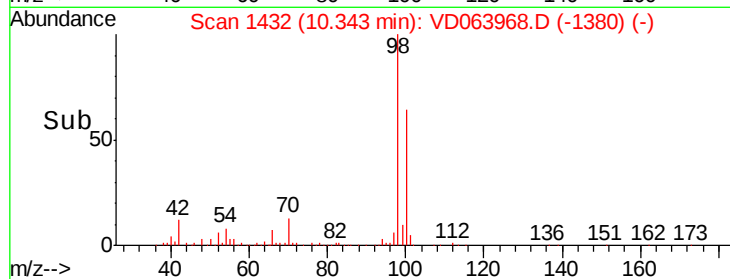
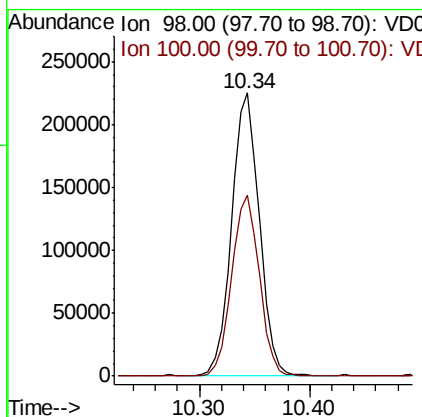
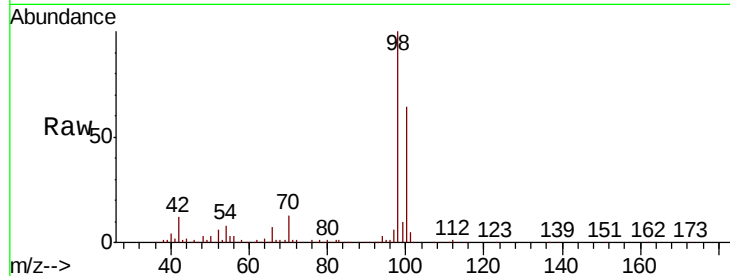




#50
Toluene-d8
Concen: 51.706 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. 0.01 min
Lab File: VD063968.D
Acq: 15 Oct 2019 13:27

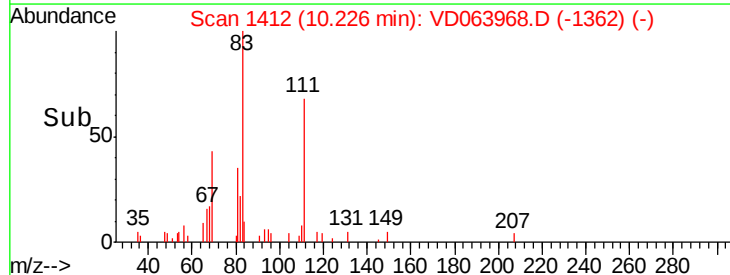
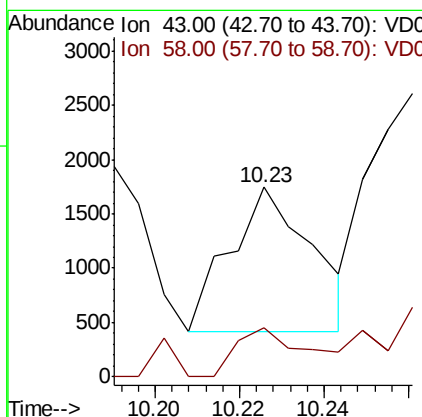
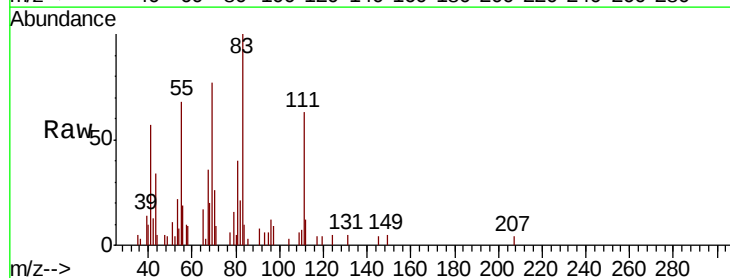
Instrument :
MSVOA_D
ClientSampleId :
20190897-AMENDED-COMP-KM-CA

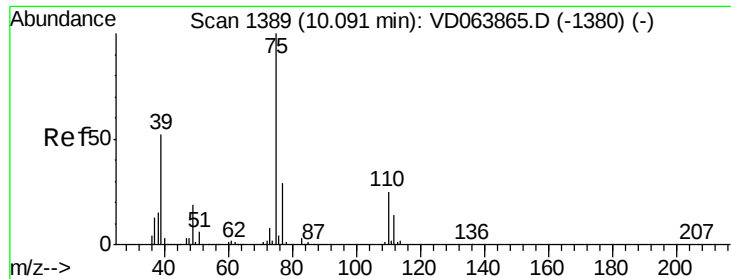
Tot Ion: 98 Resp: 397053
Ion Ratio Lower Upper
98 100
100 64.2 52.1 78.1



#51
4-Methyl-2-Pentanone
Concen: 1.453 ug/l
RT: 10.23 min Scan# 1412
Delta R.T. -0.01 min
Lab File: VD063968.D
Acq: 15 Oct 2019 13:27

Tgt Ion: 43 Resp: 1789
Ion Ratio Lower Upper
43 100
58 30.1 33.0 49.4#





#54

cis-1,3-Dichloropropene

Concen: 1.028 ug/l

RT: 10.06 min Scan# 1383

Delta R.T. -0.04 min

Lab File: VD063968.D

Acq: 15 Oct 2019 13:27

Instrument :

MSVOA_D

ClientSampleId :

20190897-AMENDED-COMP-KM-CA

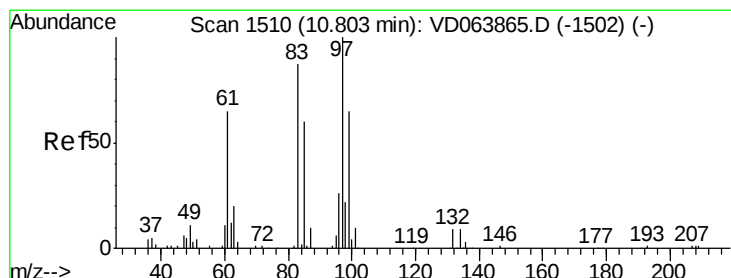
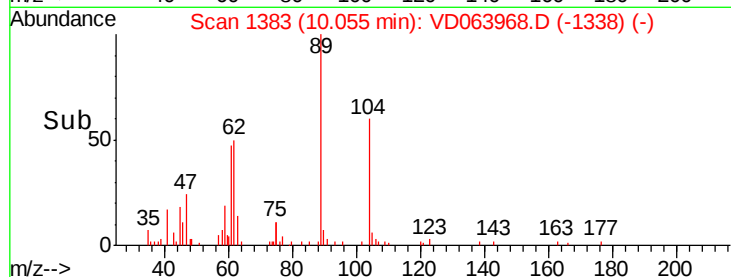
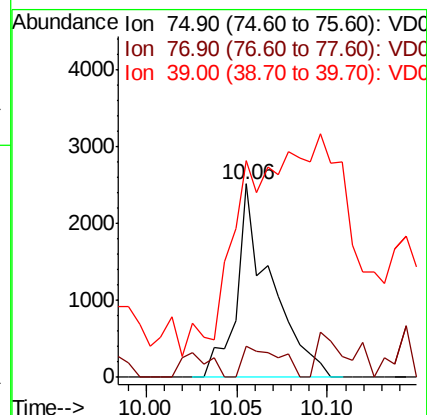
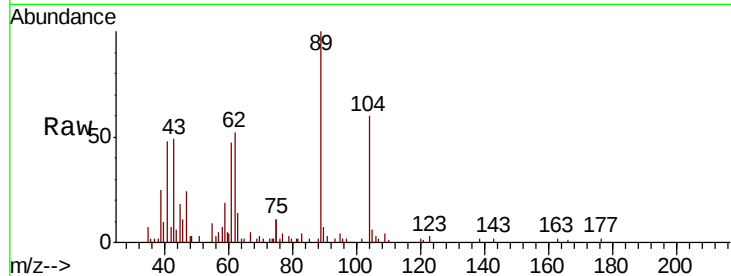
Tot Ion: 75 Resp: 3361

Ion Ratio Lower Upper

75 100

77 4.8 23.2 34.8#

39 83.8 41.5 62.3#



#55

1,1,2-Trichloroethane

Concen: 13.090 ug/l

RT: 10.78 min Scan# 1507

Delta R.T. -0.02 min

Lab File: VD063968.D

Acq: 15 Oct 2019 13:27

Tgt Ion: 97 Resp: 20899

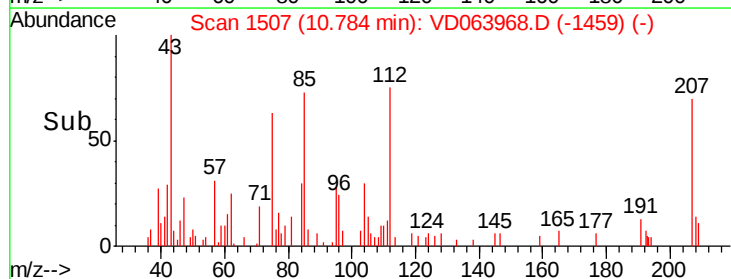
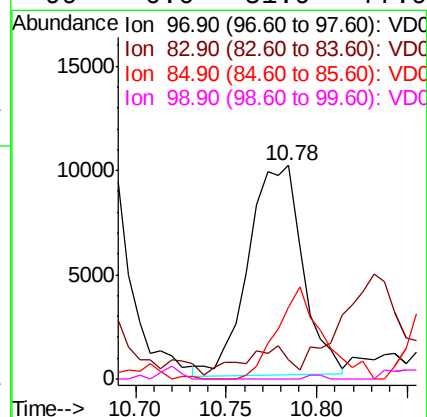
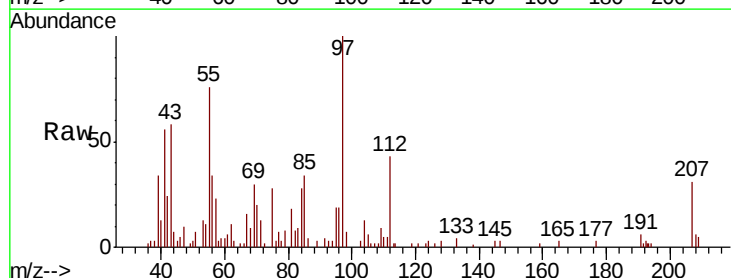
Ion Ratio Lower Upper

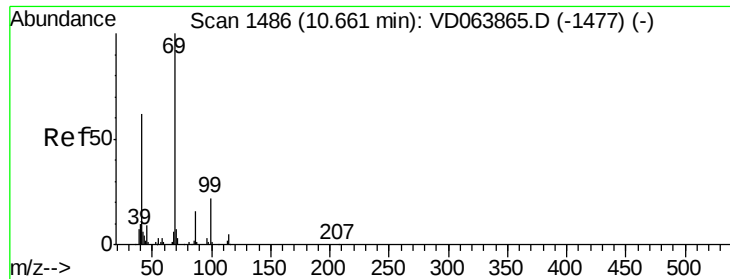
97 100

83 1.9 69.7 104.5#

85 33.9 48.1 72.1#

99 0.0 51.9 77.9#

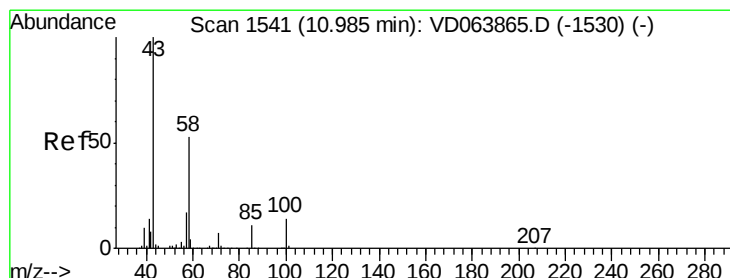
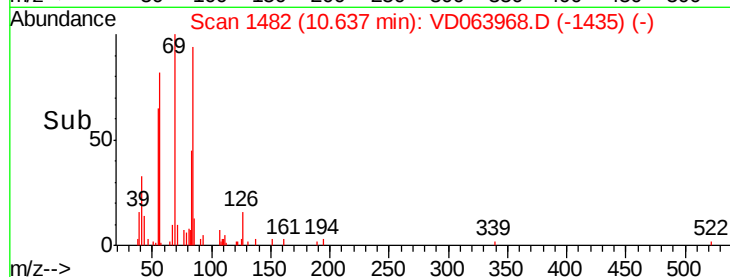
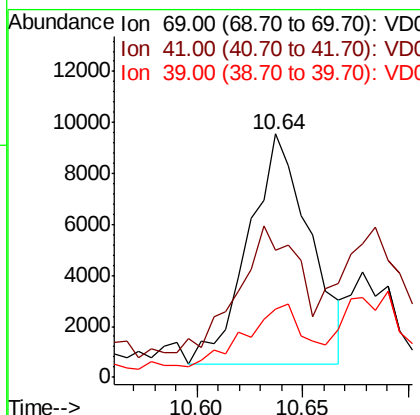
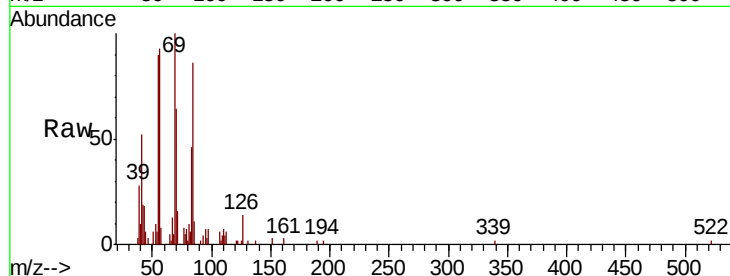




#56
Ethyl methacrylate
Concen: 9.047 ug/l
RT: 10.64 min Scan# 1482
Delta R.T. -0.02 min
Lab File: VD063968.D
Acq: 15 Oct 2019 13:27

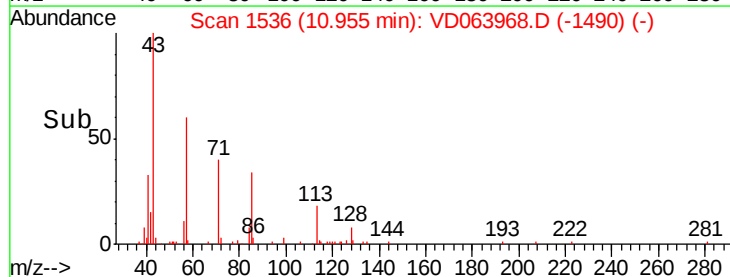
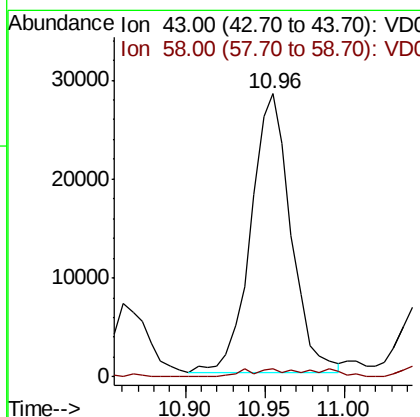
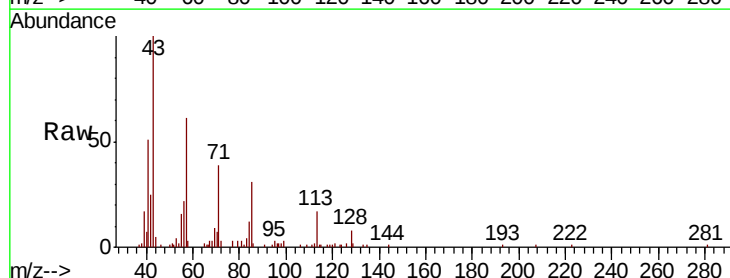
Instrument :
MSVOA_D
ClientSampleId :
20190897-AMENDED-COMP-KM-CA

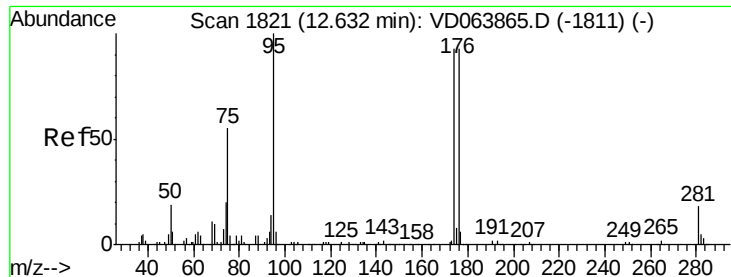
Tot Ion: 69 Resp: 18291
Ion Ratio Lower Upper
69 100
41 53.6 51.3 76.9
39 28.0 28.0 42.0



#59
2-Hexanone
Concen: 55.869 ug/l
RT: 10.96 min Scan# 1536
Delta R.T. -0.03 min
Lab File: VD063968.D
Acq: 15 Oct 2019 13:27

Tgt Ion: 43 Resp: 49754
Ion Ratio Lower Upper
43 100
58 3.5 27.7 83.0#





#62

4-Bromofluorobenzene

Concen: 49.266 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.00 min

Lab File: VD063968.D

Acq: 15 Oct 2019 13:27

Instrument :

MSVOA_D

ClientSampleId :

20190897-AMENDED-COMP-KM-CA

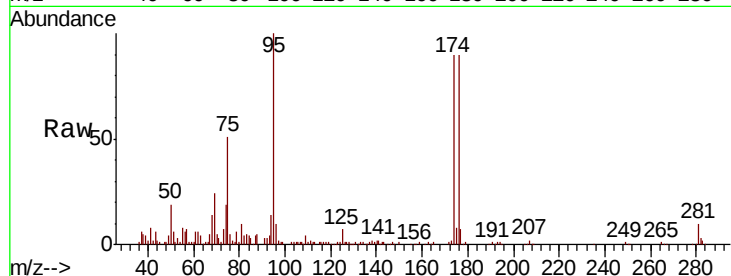
Tot Ion: 95 Resp: 131464

Ion Ratio Lower Upper

95 100

174 92.7 0.0 186.4

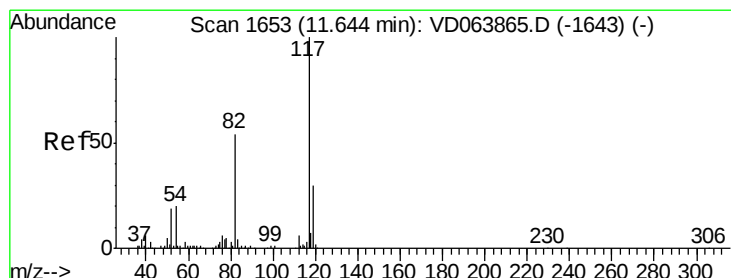
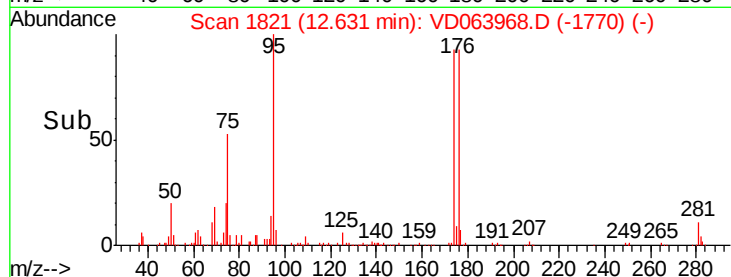
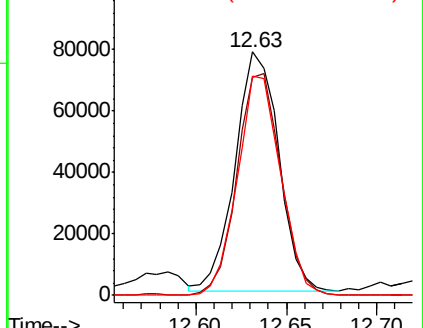
176 90.4 0.0 184.2



Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.65 min Scan# 1654

Delta R.T. 0.01 min

Lab File: VD063968.D

Acq: 15 Oct 2019 13:27

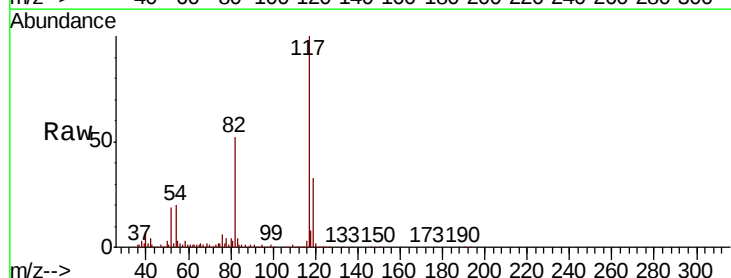
Tgt Ion: 117 Resp: 301295

Ion Ratio Lower Upper

117 100

82 50.1 42.8 64.2

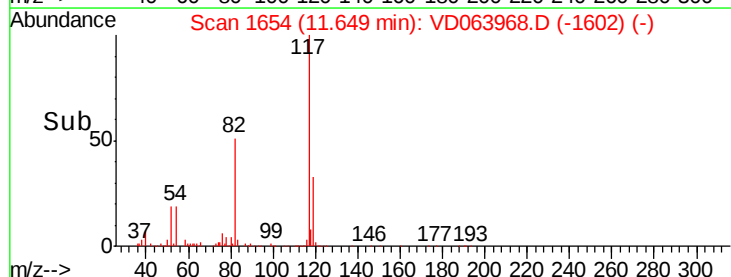
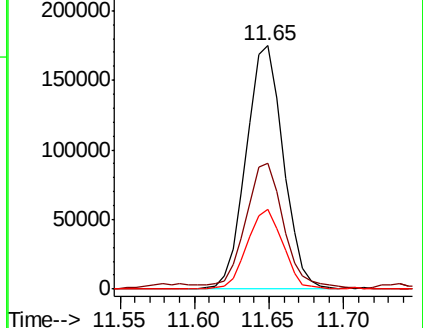
119 32.7 24.4 36.6

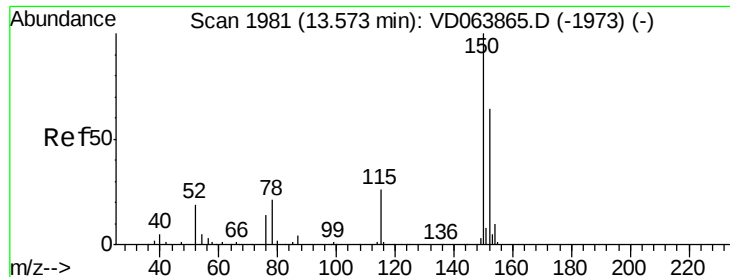


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



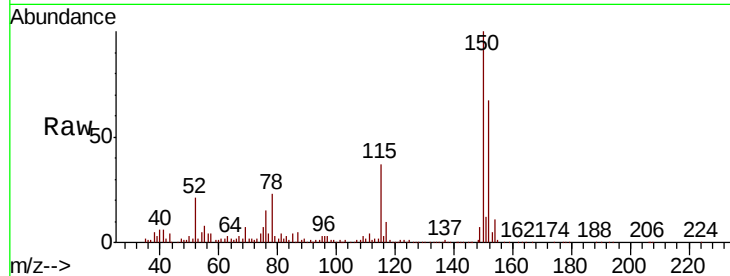


#72

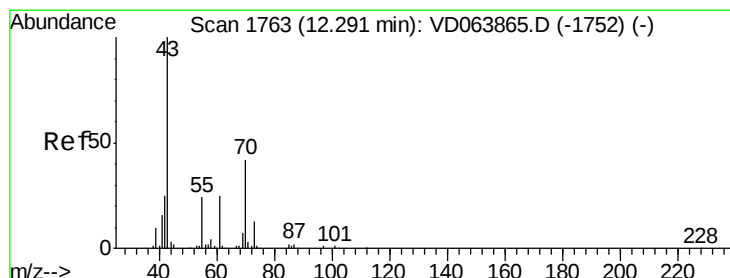
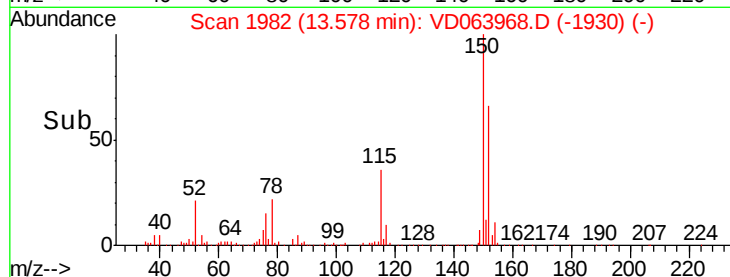
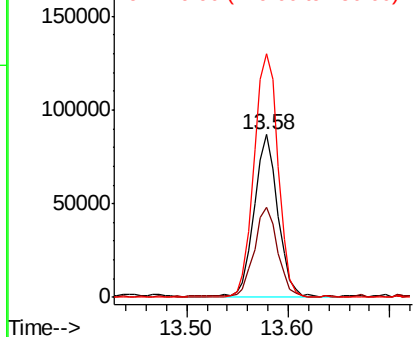
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1982
Delta R.T. 0.01 min
Lab File: VD063968.D
Acq: 15 Oct 2019 13:27

Instrument :
MSVOA_D
ClientSampleId :
20190897-AMENDED-COMP-KM-CA

Tot Ion:152 Resp: 141201
Ion Ratio Lower Upper
152 100
115 55.8 25.9 77.7
150 152.0 0.0 344.2



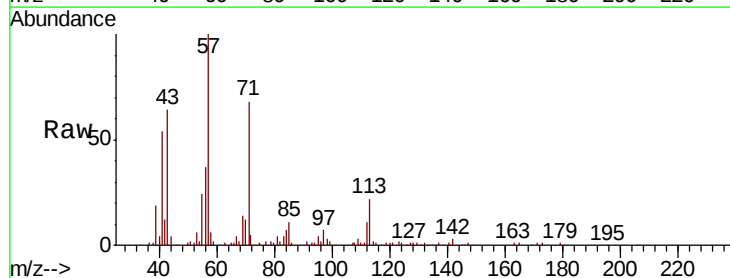
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



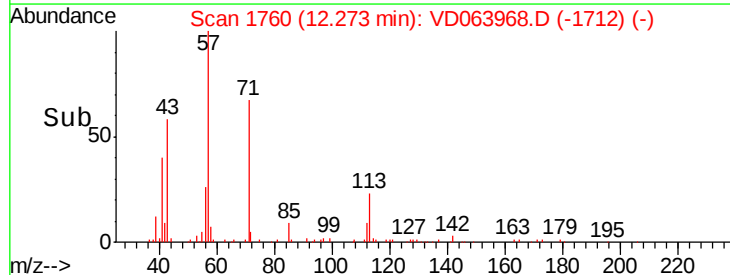
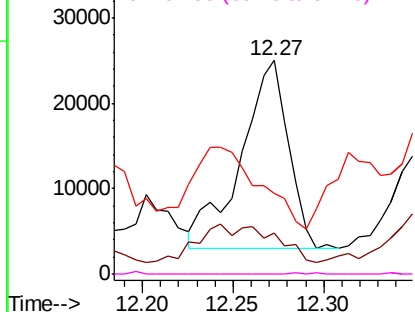
#74

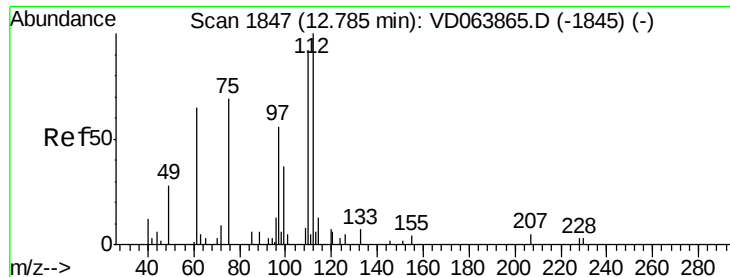
N-ethyl acetate
Concen: 19.819 ug/l
RT: 12.27 min Scan# 1760
Delta R.T. -0.02 min
Lab File: VD063968.D
Acq: 15 Oct 2019 13:27

Tgt Ion: 43 Resp: 40504
Ion Ratio Lower Upper
43 100
70 0.0 35.8 53.6#
55 0.0 19.4 29.0#
61 0.3 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: 68.122 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.15 min

Lab File: VD063968.D

Acq: 15 Oct 2019 13:27

Instrument :

MSVOA_D

ClientSampleId :

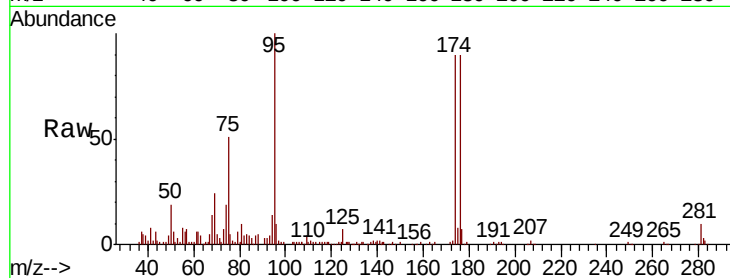
20190897-AMENDED-COMP-KM-CA

Tot Ion: 75 Resp: 64425

Ion Ratio Lower Upper

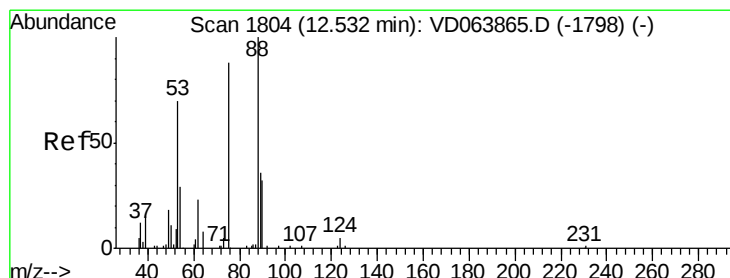
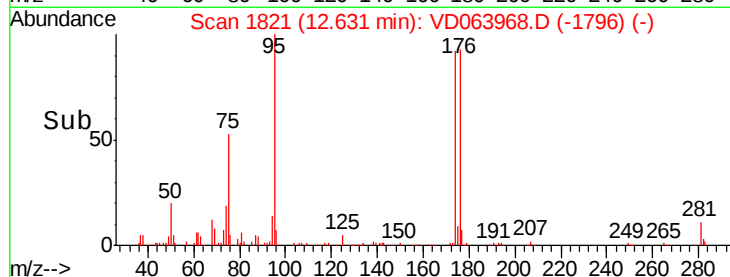
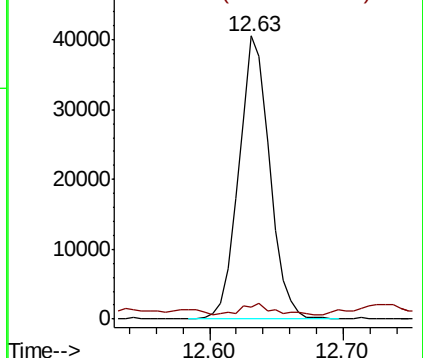
75 100

77 4.7 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 77.00 (76.70 to 77.70): VDC



#81

trans-1,4-Dichloro-2-butene

Concen: 120.549 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.10 min

Lab File: VD063968.D

Acq: 15 Oct 2019 13:27

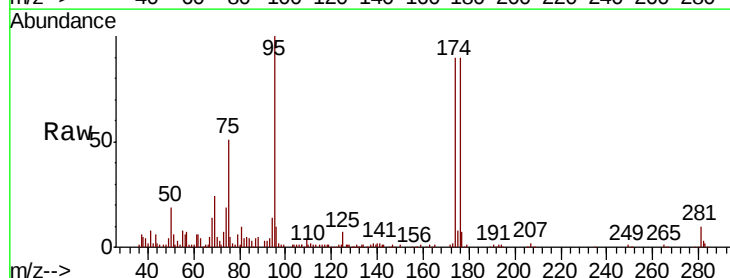
Tgt Ion: 75 Resp: 64425

Ion Ratio Lower Upper

75 100

53 3.6 75.0 112.6#

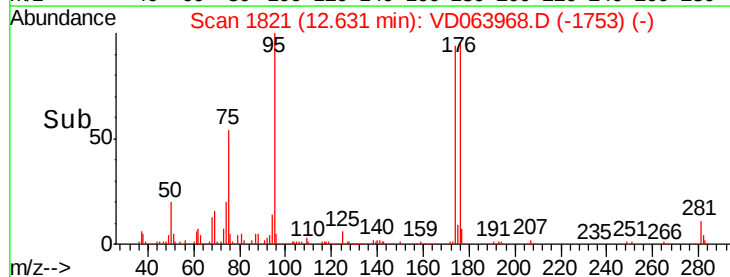
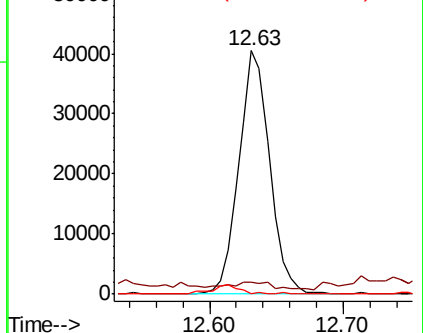
89 3.3 38.2 57.4#

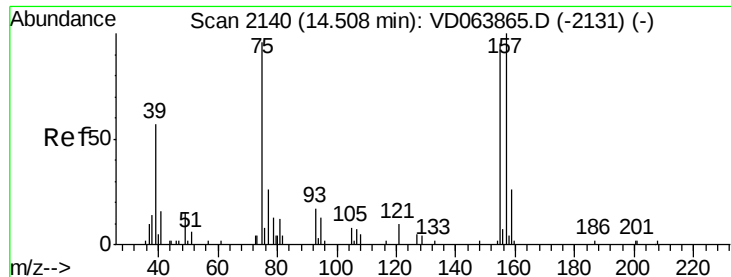


Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 88.90 (88.60 to 89.60): VDC





#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.37 min Scan# 2117

Delta R.T. -0.14 min

Lab File: VD063968.D

Acq: 15 Oct 2019 13:27

Instrument :

MSVOA_D

ClientSampleId :

20190897-AMENDED-COMP-KM-CA

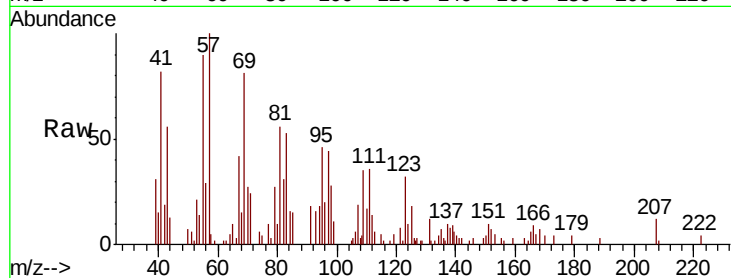
Tot Ion: 75 Resp: 179

Ion Ratio Lower Upper

75 100

155 90.5 43.9 131.6

157 70.9 56.0 167.9



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

