

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD061719\
 Data File : VD062725.D
 Acq On : 17 Jun 2019 14:34
 Operator : VA/AP
 Sample : K3154-01
 Misc : 6.66g/5ml/MSVOA D/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 JC-02-061419-A

Quant Time: Jun 18 06:23:16 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D060719S.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 08 00:02:21 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.04	168	890395	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.22	114	1234833	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.37	117	962863	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	421267	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.45	65	371438	28.91	ug/l	0.00
Spiked Amount			Recovery	=	57.82%	
35) Dibromofluoromethane	6.93	113	394533	30.30	ug/l	0.00
Spiked Amount			Recovery	=	60.60%	
50) Toluene-d8	10.41	98	718058	26.21	ug/l	0.00
Spiked Amount			Recovery	=	52.42%	
62) 4-Bromofluorobenzene	13.55	95	304416	23.82	ug/l	0.00
Spiked Amount			Recovery	=	47.64%	

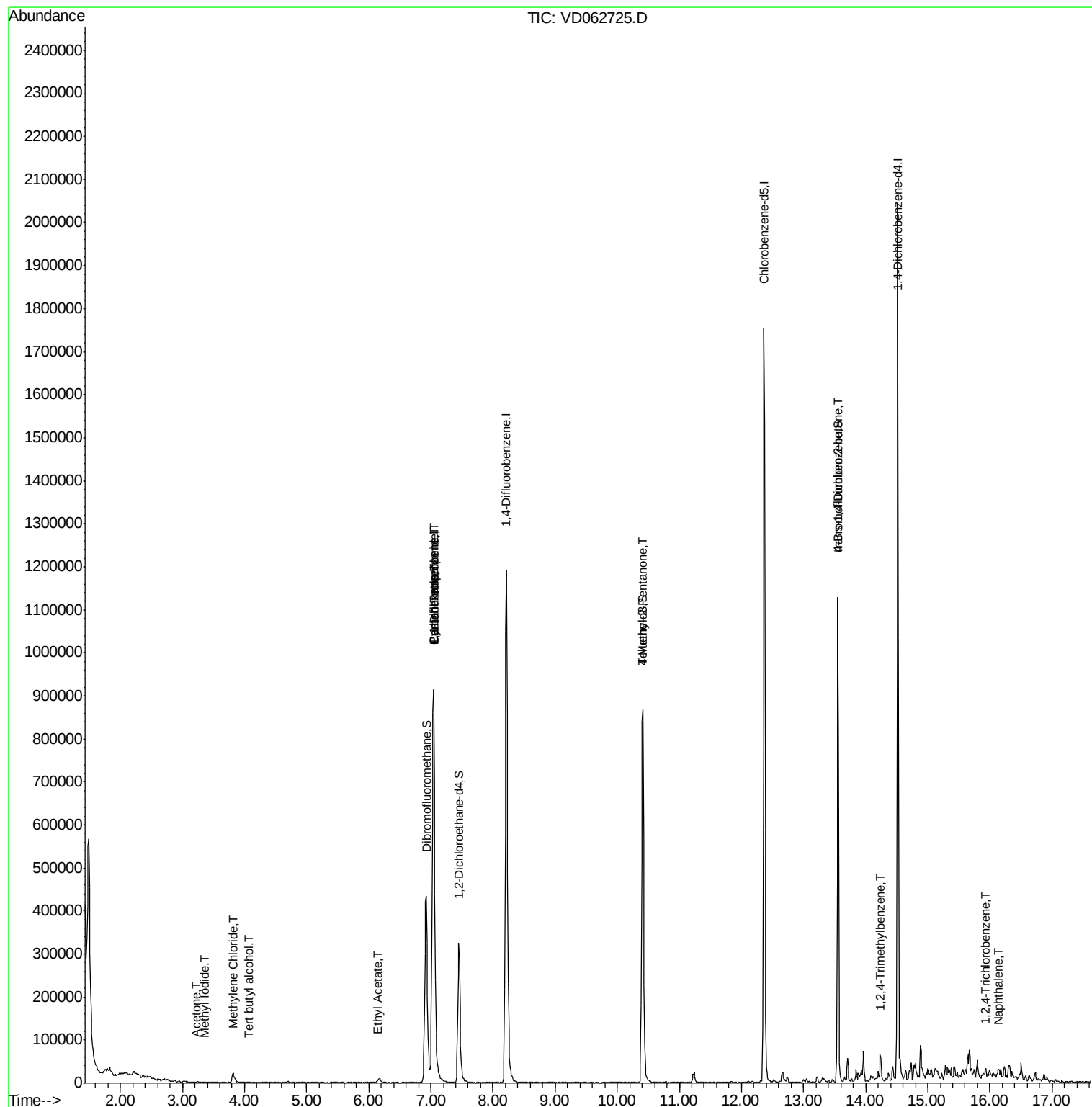
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.58	85	670	Below Cal	#	42
10) Methyl Iodide	3.36	142	207	4.021	ug/l #	24
11) Tert butyl alcohol	4.06	59	821	1.555	ug/l #	61
16) Acetone	3.22	43	4114	1.749	ug/l #	66
20) Methylene Chloride	3.82	84	13981	1.141	ug/l #	88
31) Cyclohexane	7.04	56	20309	2.003	ug/l #	27
36) 1,1-Dichloropropene	7.04	75	72660	5.141	ug/l #	52
37) Ethyl Acetate	6.15	43	404	1.266	ug/l #	74
38) Carbon Tetrachloride	7.03	117	93451	4.183	ug/l #	18
51) 4-Methyl-2-Pentanone	10.41	43	5444	1.043	ug/l #	31
81) trans-1,4-Dichloro-2-buten	13.55	75	150539	85.842	ug/l #	1
84) 1,2,4-Trimethylbenzene	14.23	105	29917	1.151	ug/l	93
93) 1,2,4-Trichlorobenzene	15.93	180	216	3.587	ug/l #	25
95) Naphthalene	16.12	128	8802	3.986	ug/l #	88

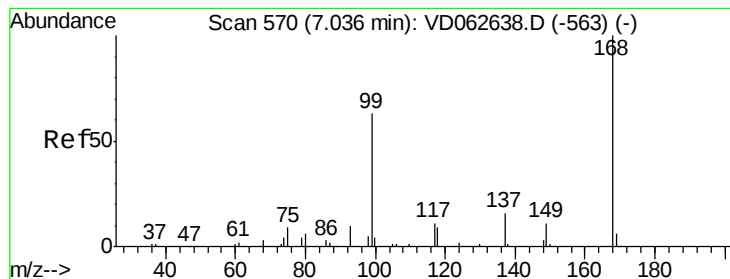
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Sat Jun 08 00:02:21 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.04 min Scan# 571

Delta R.T. 0.01 min

Lab File: VD062725.D

Acq: 17 Jun 2019 14:34

Instrument :

MSVOA_D

ClientSampleId :

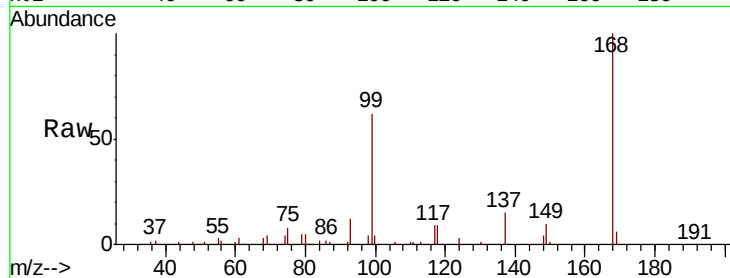
JC-02-061419-A

Tot Ion:168 Resp: 890395

Ion Ratio Lower Upper

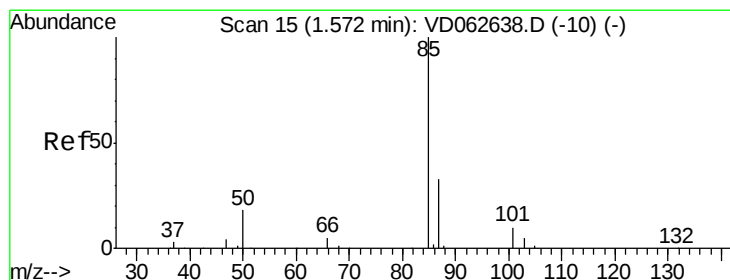
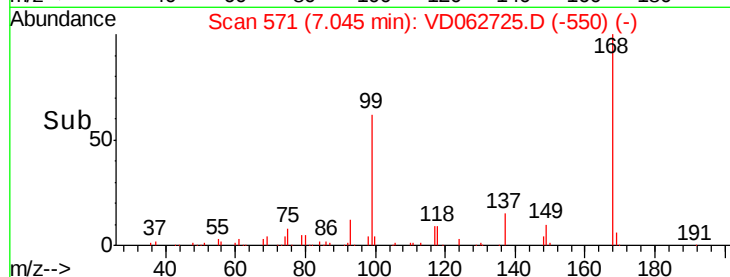
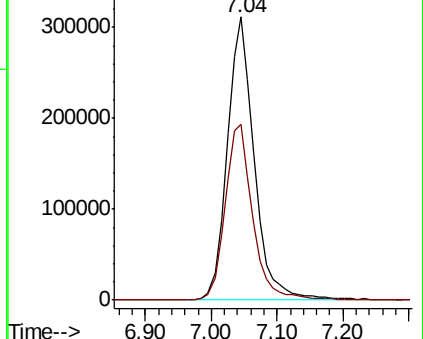
168 100

99 62.0 51.4 77.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.58 min Scan# 16

Delta R.T. 0.01 min

Lab File: VD062725.D

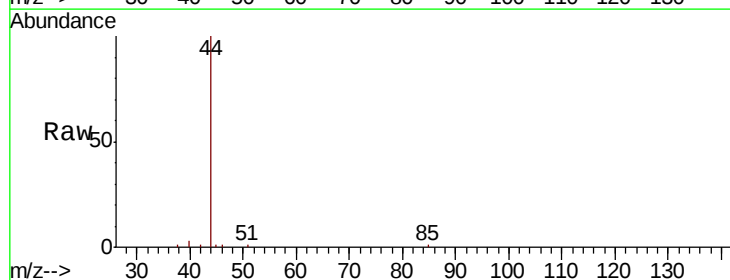
Acq: 17 Jun 2019 14:34

Tgt Ion: 85 Resp: 670

Ion Ratio Lower Upper

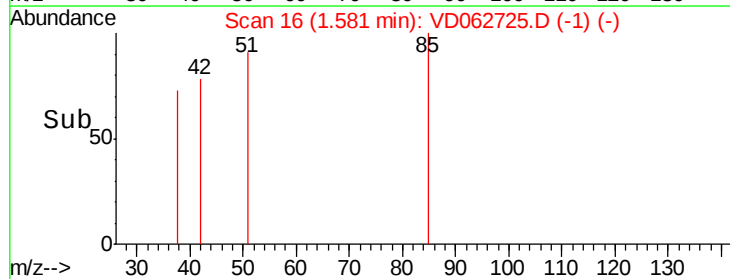
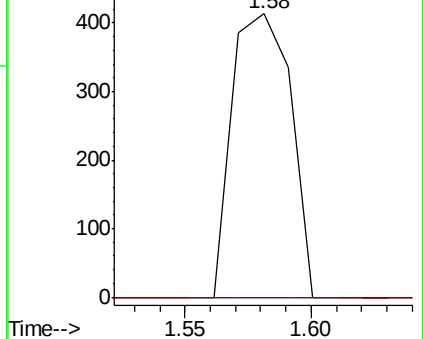
85 100

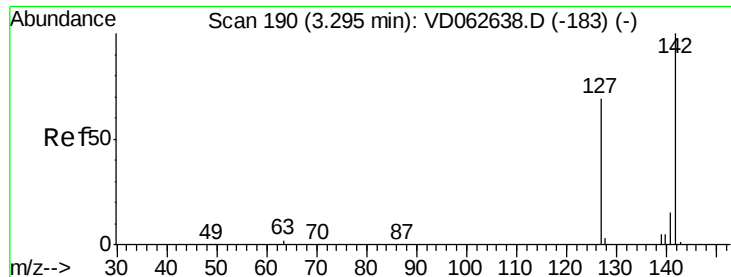
87 0.0 16.6 49.7#



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC

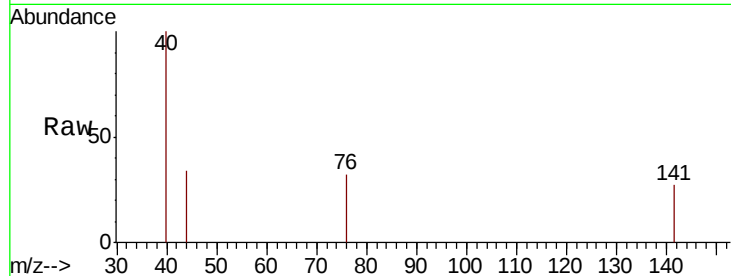




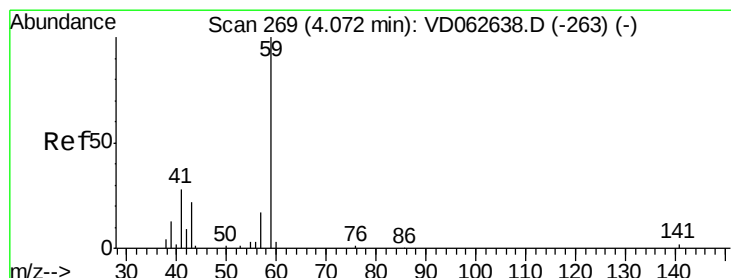
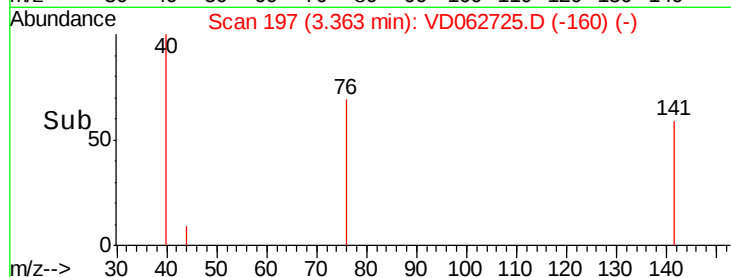
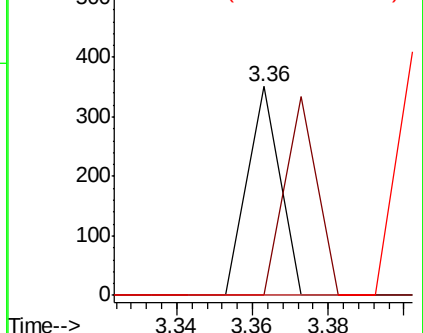
#10
Methyl Iodide
Concen: 4.021 ug/l
RT: 3.36 min Scan# 197
Delta R.T. 0.07 min
Lab File: VD062725.D
Acq: 17 Jun 2019 14:34

Instrument :
MSVOA_D
ClientSampleId :
JC-02-061419-A

Tot Ion:142 Resp: 207
Ion Ratio Lower Upper
142 100
127 0.0 55.2 82.8#
141 0.0 12.1 18.1#

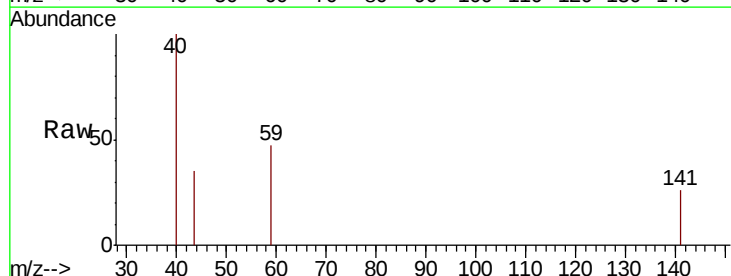


Abundance Ion 141.85 (141.55 to 142.55): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.85 (140.55 to 141.55): V

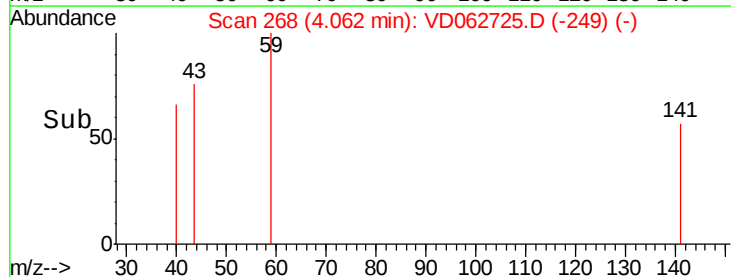
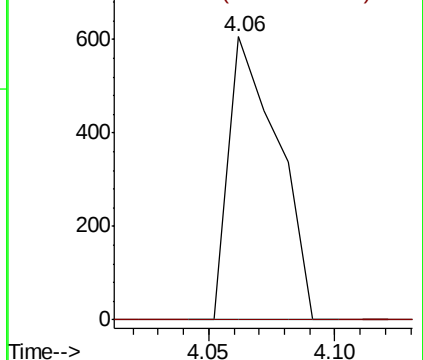


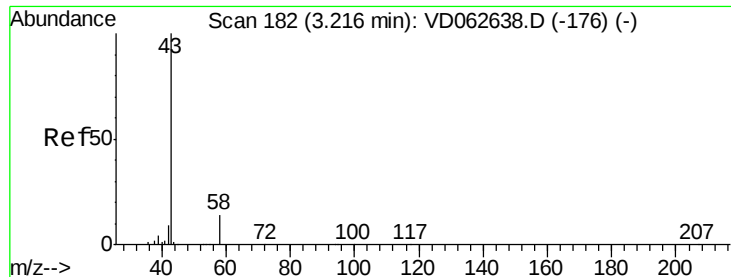
#11
Tert butyl alcohol
Concen: 1.555 ug/l
RT: 4.06 min Scan# 268
Delta R.T. -0.01 min
Lab File: VD062725.D
Acq: 17 Jun 2019 14:34

Tgt Ion: 59 Resp: 821
Ion Ratio Lower Upper
59 100
57 0.0 13.7 20.5#



Abundance Ion 58.95 (58.65 to 59.65): V
Ion 56.95 (56.65 to 57.65): V





#16

Acetone

Concen: 1.749 ug/l

RT: 3.22 min Scan# 182

Delta R.T. -0.00 min

Lab File: VD062725.D

Acq: 17 Jun 2019 14:34

Instrument :

MSVOA_D

ClientSampleId :

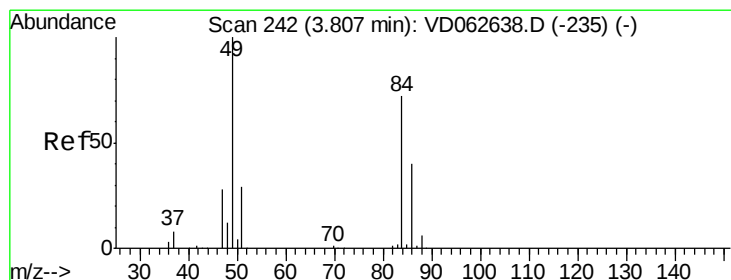
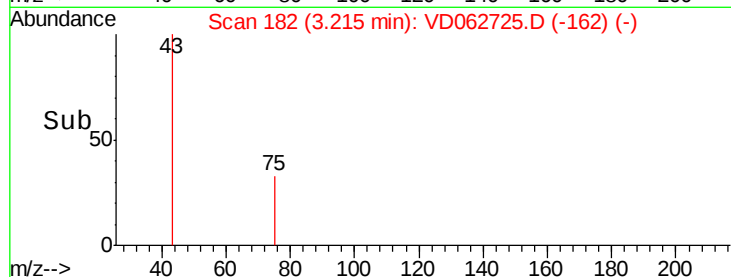
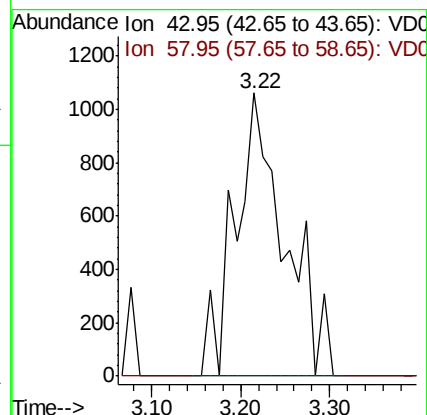
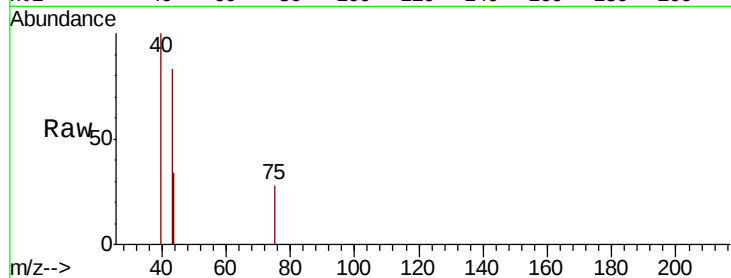
JC-02-061419-A

Tot Ion: 43 Resp: 4114

Ion Ratio Lower Upper

43 100

58 0.0 10.8 16.2#



#20

Methylene Chloride

Concen: 1.141 ug/l

RT: 3.82 min Scan# 243

Delta R.T. 0.01 min

Lab File: VD062725.D

Acq: 17 Jun 2019 14:34

Tgt Ion: 84 Resp: 13981

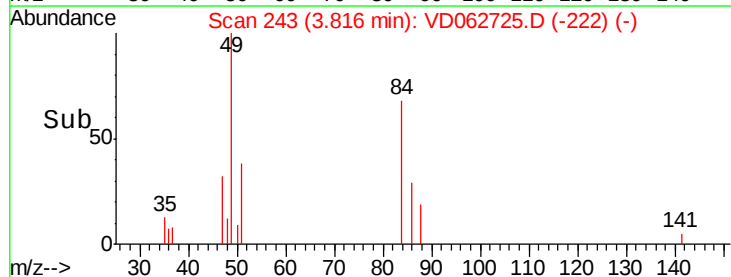
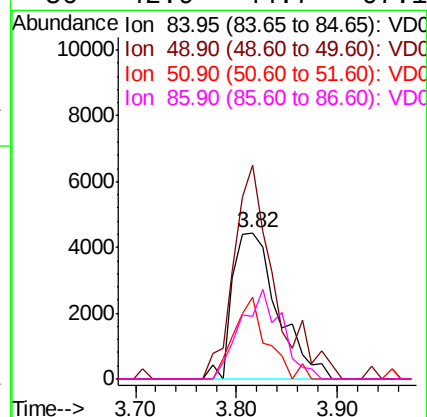
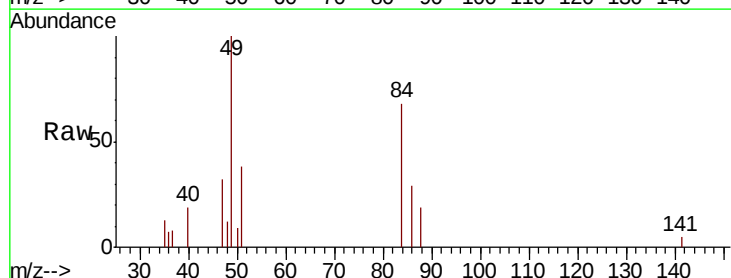
Ion Ratio Lower Upper

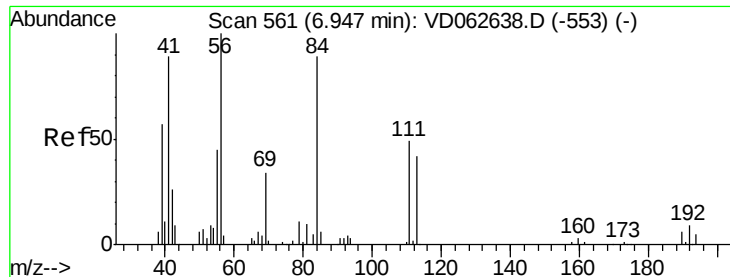
84 100

49 146.0 111.2 166.8

51 55.8 31.9 47.9#

86 42.9 44.7 67.1#

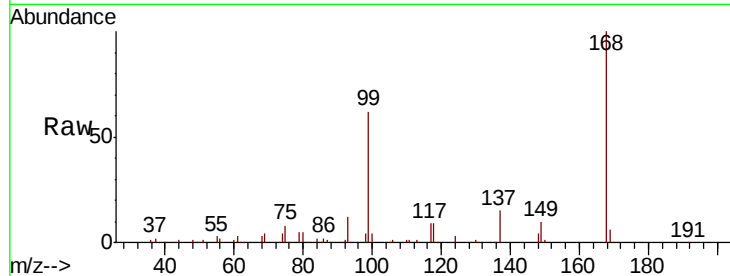




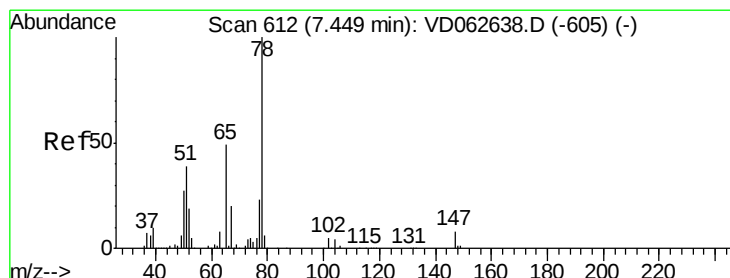
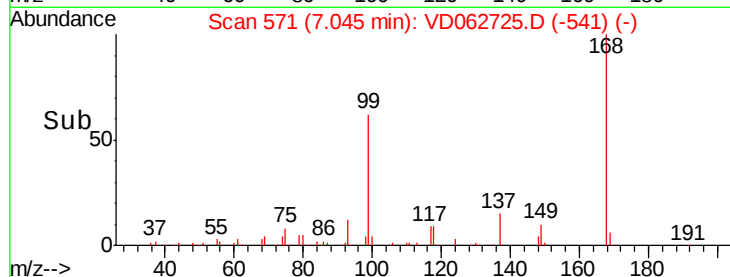
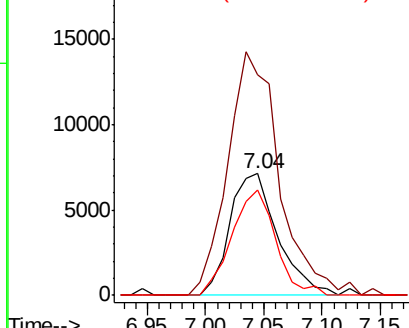
#31
Cyclohexane
Concen: 2.003 ug/l
RT: 7.04 min Scan# 571
Delta R.T. 0.10 min
Lab File: VD062725.D
Acq: 17 Jun 2019 14:34

Instrument :
MSVOA_D
ClientSampleId :
JC-02-061419-A

Tot Ion: 56 Resp: 20309
Ion Ratio Lower Upper
56 100
69 181.9 26.8 40.2#
84 87.2 73.9 110.9

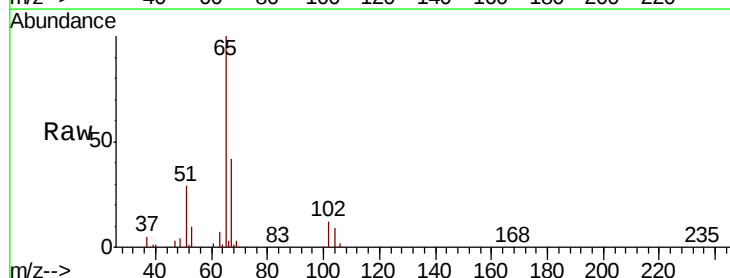


Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC

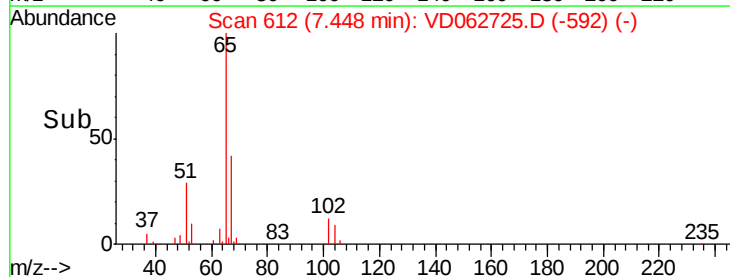
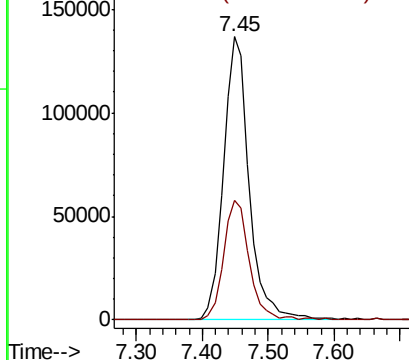


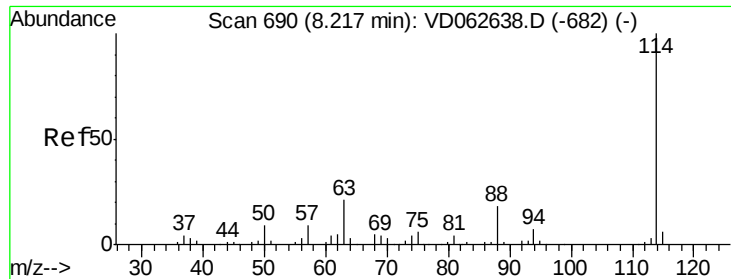
#33
1,2-Dichloroethane-d4
Concen: 28.909 ug/l
RT: 7.45 min Scan# 612
Delta R.T. -0.00 min
Lab File: VD062725.D
Acq: 17 Jun 2019 14:34

Tgt Ion: 65 Resp: 371438
Ion Ratio Lower Upper
65 100
67 42.5 0.0 81.8



Abundance Ion 64.95 (64.65 to 65.65): VDC
Ion 66.90 (66.60 to 67.60): VDC





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.22 min Scan# 690

Delta R.T. -0.00 min

Lab File: VD062725.D

Acq: 17 Jun 2019 14:34

Instrument :

MSVOA_D

ClientSampleId :

JC-02-061419-A

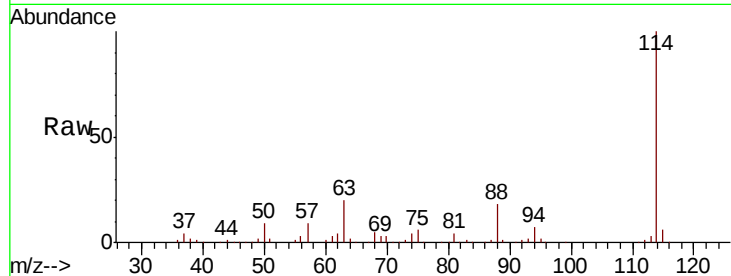
Tot Ion:114 Resp: 1234833

Ion Ratio Lower Upper

114 100

63 20.3 0.0 42.4

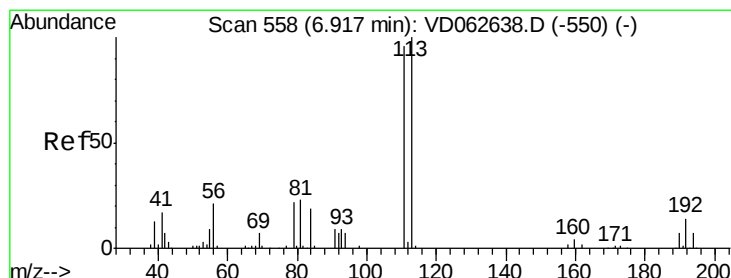
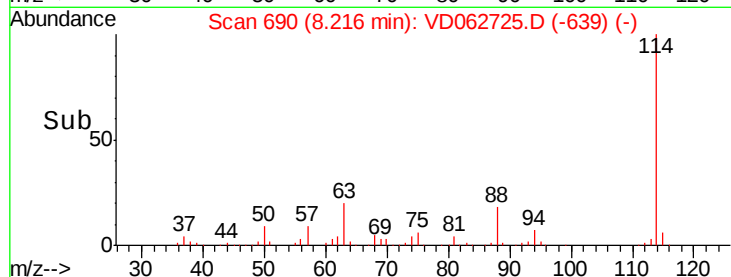
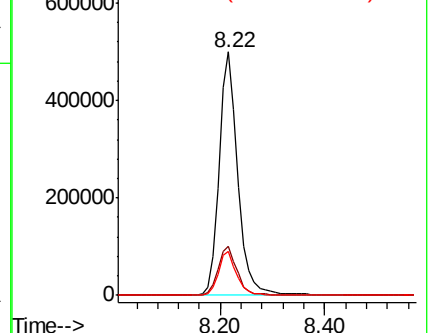
88 18.3 0.0 36.8



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): V

Ion 87.90 (87.60 to 88.60): V



#35

Dibromofluoromethane

Concen: 30.295 ug/l

RT: 6.93 min Scan# 559

Delta R.T. 0.01 min

Lab File: VD062725.D

Acq: 17 Jun 2019 14:34

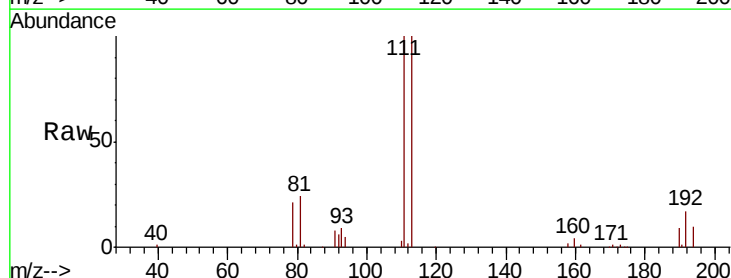
Tgt Ion:113 Resp: 394533

Ion Ratio Lower Upper

113 100

111 100.0 76.4 114.6

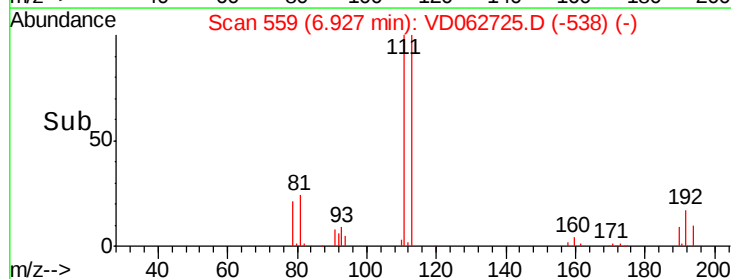
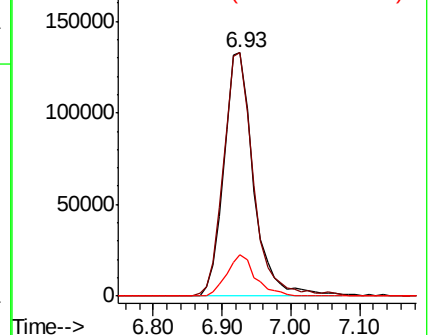
192 17.0 11.4 17.0

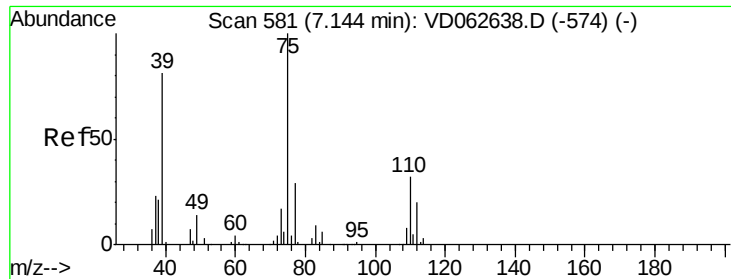


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V





#36

1,1-Dichloropropene

Concen: 5.141 ug/l

RT: 7.04 min Scan# 571

Delta R.T. -0.10 min

Lab File: VD062725.D

Acq: 17 Jun 2019 14:34

Instrument :

MSVOA_D

ClientSampleId :

JC-02-061419-A

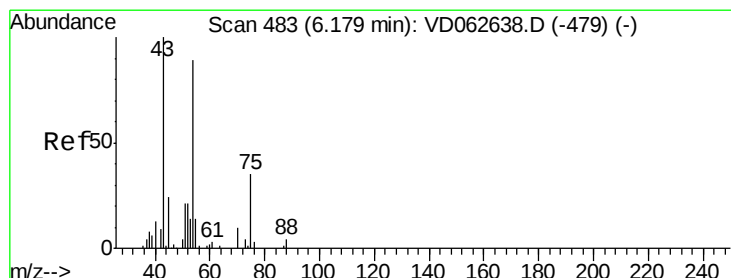
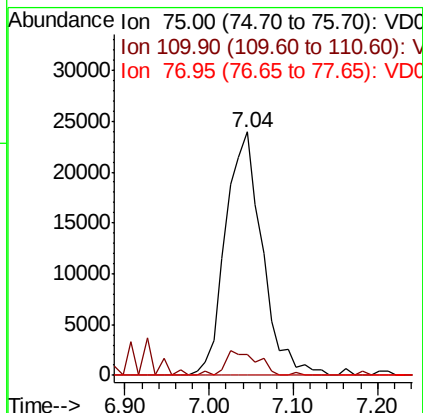
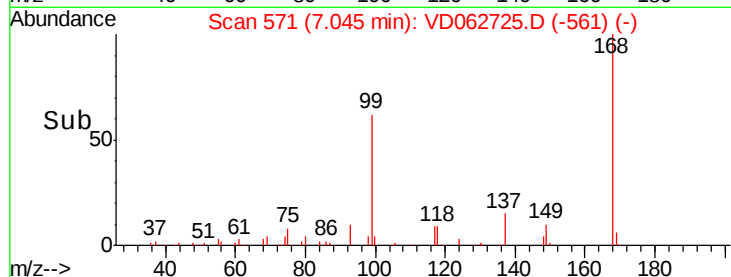
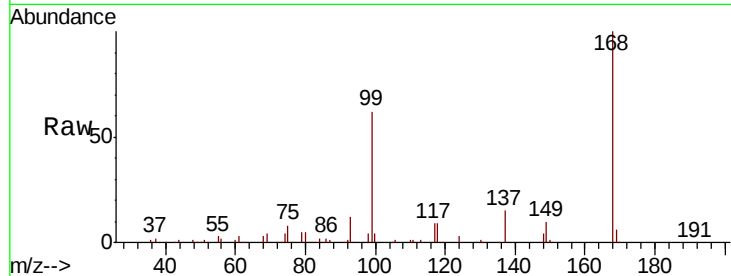
Tot Ion: 75 Resp: 72660

Ion Ratio Lower Upper

75 100

110 8.6 15.9 47.7#

77 0.0 23.3 34.9#



#37

Ethyl Acetate

Concen: 1.266 ug/l

RT: 6.15 min Scan# 480

Delta R.T. -0.03 min

Lab File: VD062725.D

Acq: 17 Jun 2019 14:34

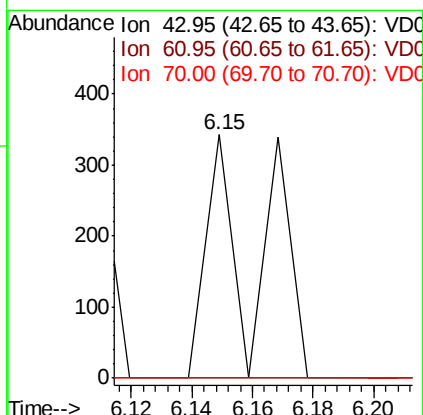
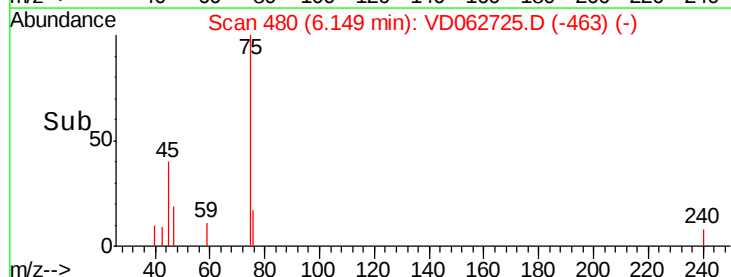
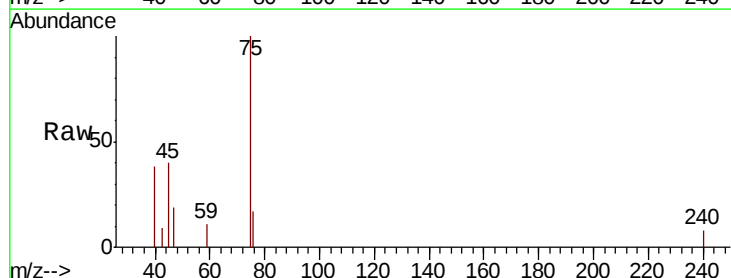
Tgt Ion: 43 Resp: 404

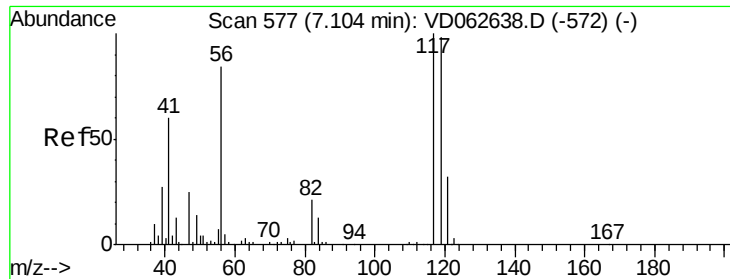
Ion Ratio Lower Upper

43 100

61 0.0 8.7 13.1#

70 0.0 6.5 9.7#

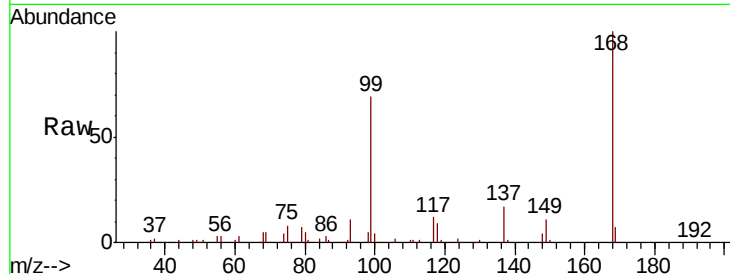




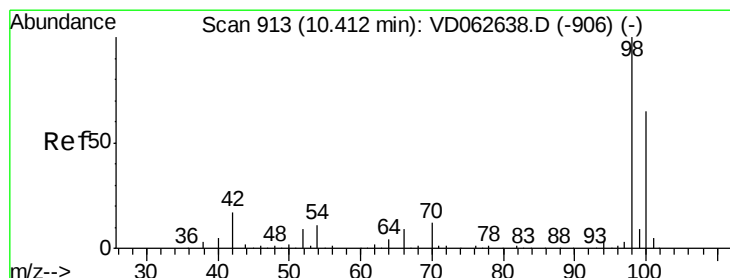
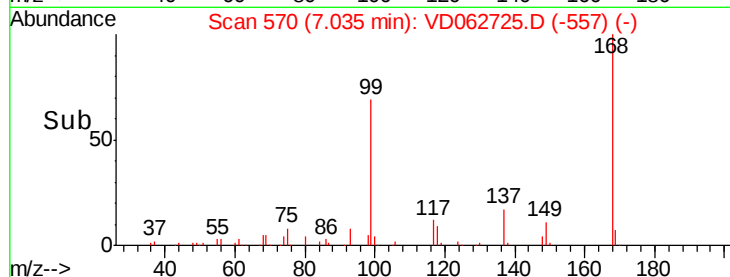
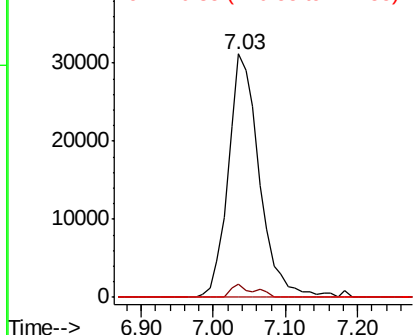
#38
Carbon Tetrachloride
Concen: 4.183 ug/l
RT: 7.03 min Scan# 570
Delta R.T. -0.07 min
Lab File: VD062725.D
Acq: 17 Jun 2019 14:34

Instrument :
MSVOA_D
ClientSampleId :
JC-02-061419-A

Tot Ion:117 Resp: 93451
Ion Ratio Lower Upper
117 100
119 5.4 73.5 110.3#
121 0.0 24.2 36.4#

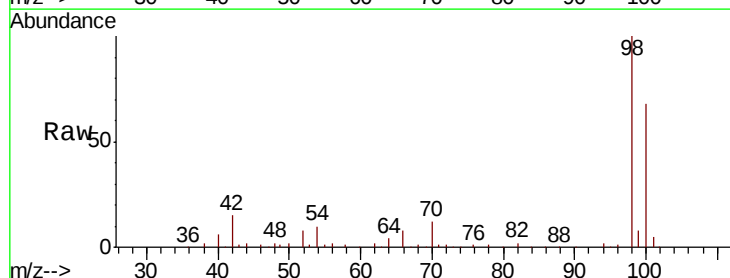


Abundance Ion 116.85 (116.55 to 117.55): V
Ion 118.85 (118.55 to 119.55): V
Ion 120.85 (120.55 to 121.55): V

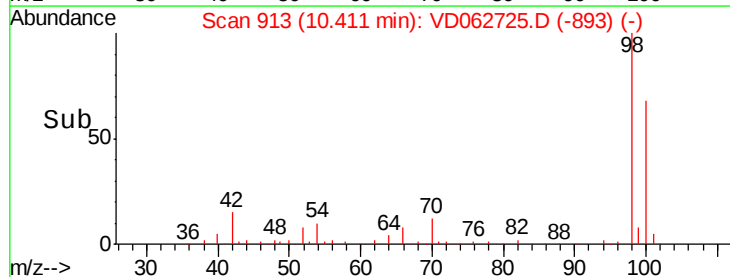
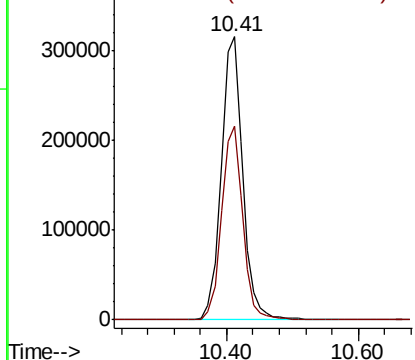


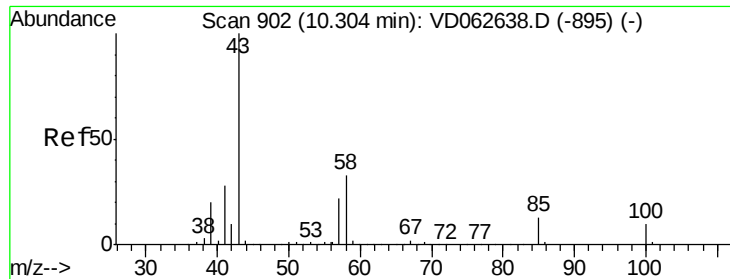
#50
Toluene-d8
Concen: 26.211 ug/l
RT: 10.41 min Scan# 913
Delta R.T. -0.00 min
Lab File: VD062725.D
Acq: 17 Jun 2019 14:34

Tgt Ion: 98 Resp: 718058
Ion Ratio Lower Upper
98 100
100 68.3 52.1 78.1



Abundance Ion 98.05 (97.75 to 98.75): V
Ion 100.05 (99.75 to 100.75): V





#51

4-Methyl-2-Pentanone

Concen: 1.043 ug/l

RT: 10.41 min Scan# 913

Delta R.T. 0.11 min

Lab File: VD062725.D

Acq: 17 Jun 2019 14:34

Instrument :

MSVOA_D

ClientSampleId :

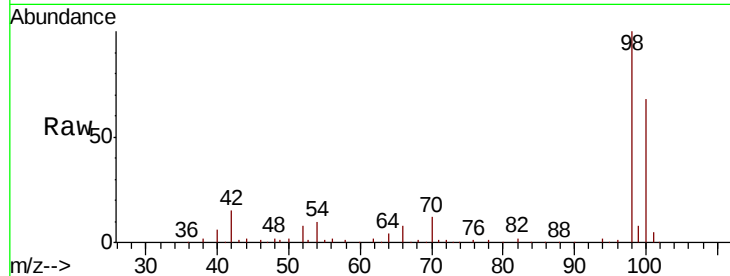
JC-02-061419-A

Tot Ion: 43 Resp: 5444

Ion Ratio Lower Upper

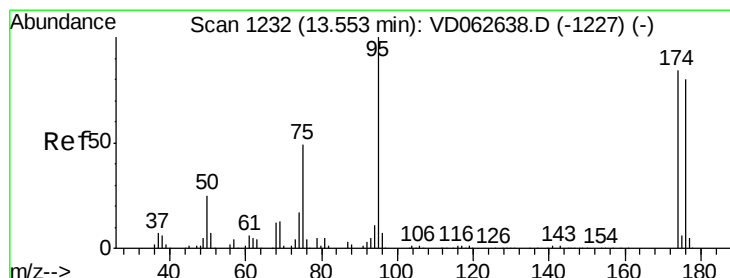
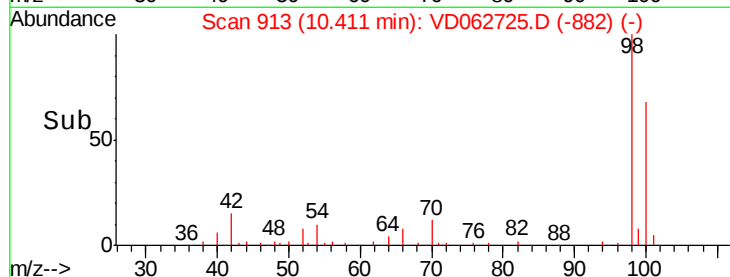
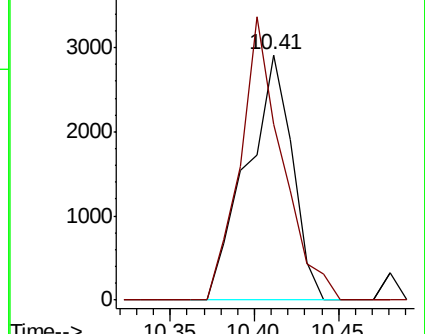
43 100

58 71.6 26.1 39.1#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#62

4-Bromofluorobenzene

Concen: 23.818 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. -0.00 min

Lab File: VD062725.D

Acq: 17 Jun 2019 14:34

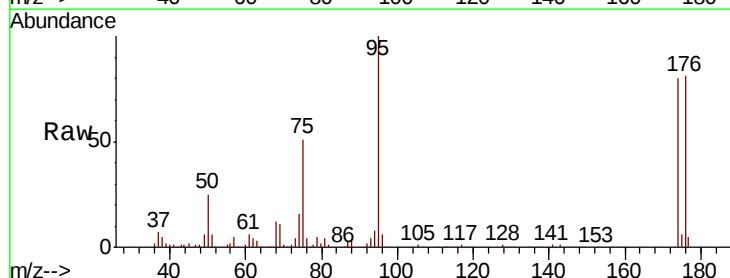
Tgt Ion: 95 Resp: 304416

Ion Ratio Lower Upper

95 100

174 79.6 0.0 167.0

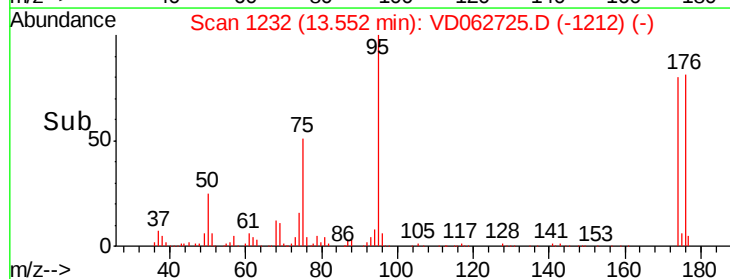
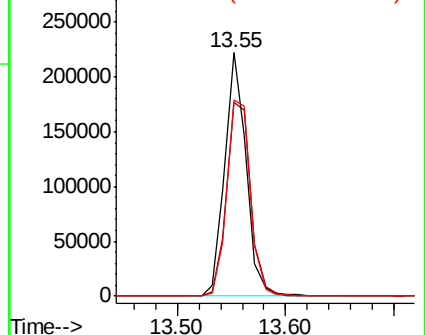
176 80.8 0.0 159.2

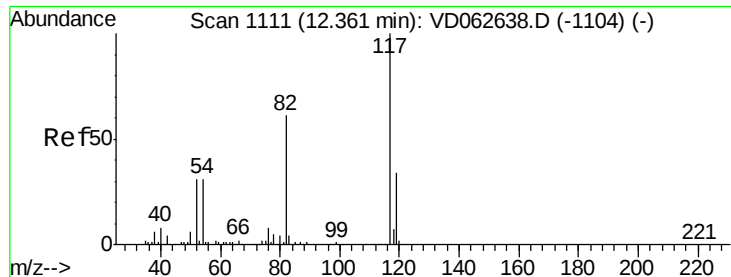


Abundance Ion 95.00 (94.70 to 95.70): VDC

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V

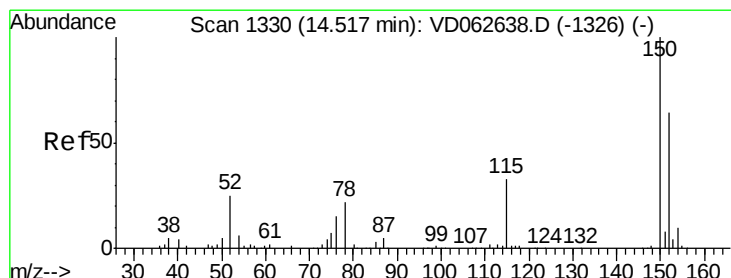
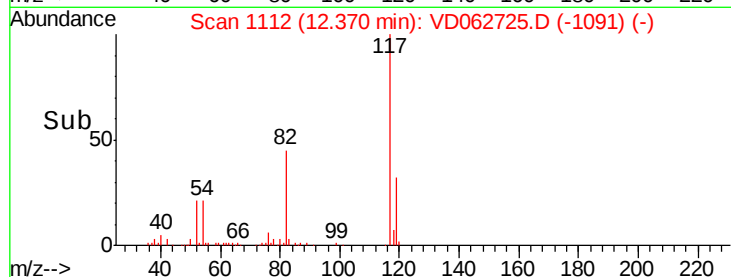
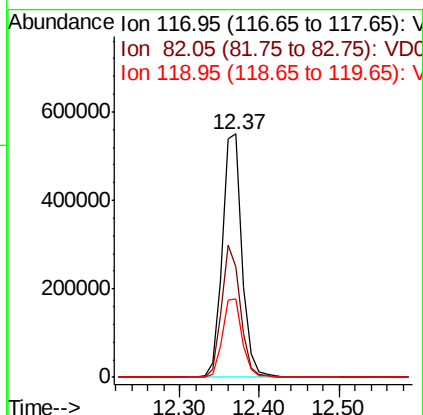
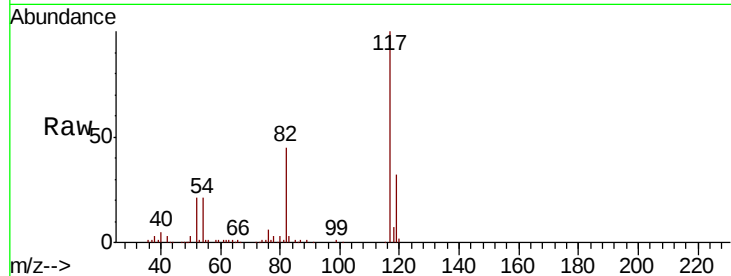




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1112
Delta R.T. 0.01 min
Lab File: VD062725.D
Acq: 17 Jun 2019 14:34

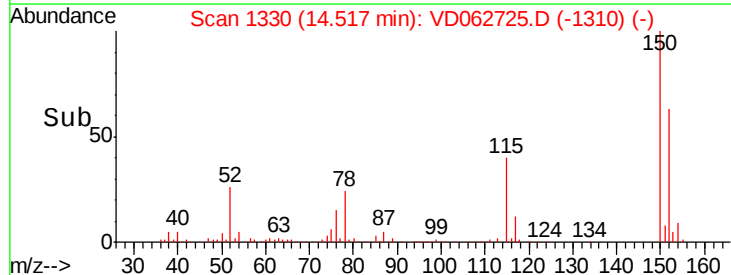
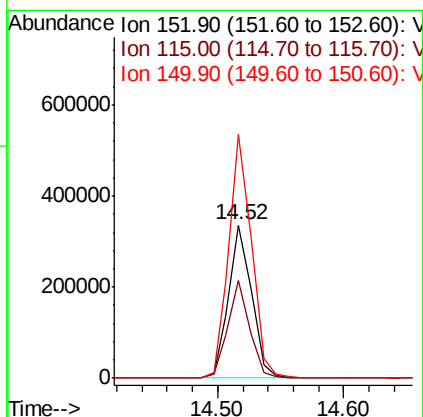
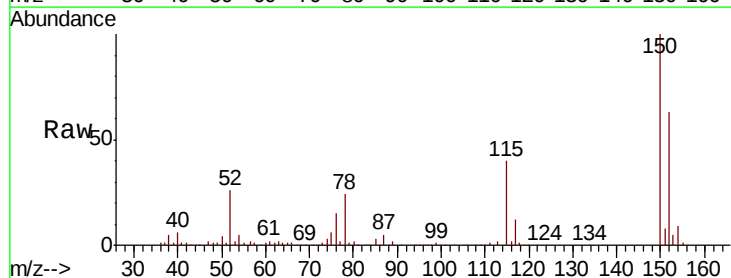
Instrument :
MSVOA_D
ClientSampleId :
JC-02-061419-A

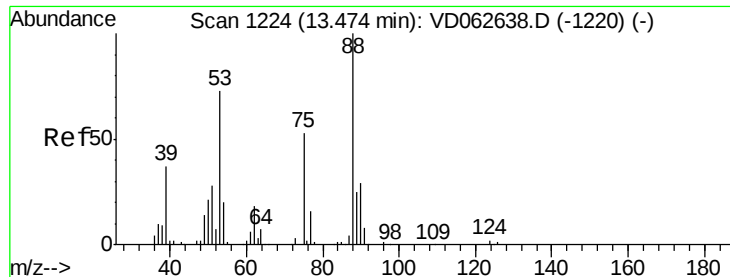
Tot Ion:117 Resp: 962863
Ion Ratio Lower Upper
117 100
82 45.2 48.7 73.1#
119 32.1 27.0 40.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.52 min Scan# 1330
Delta R.T. -0.00 min
Lab File: VD062725.D
Acq: 17 Jun 2019 14:34

Tgt Ion:152 Resp: 421267
Ion Ratio Lower Upper
152 100
115 64.0 30.1 90.5
150 159.4 0.0 314.0





#81

trans-1,4-Dichloro-2-butene

Concen: 85.842 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.08 min

Lab File: VD062725.D

Acq: 17 Jun 2019 14:34

Instrument :

MSVOA_D

ClientSampleId :

JC-02-061419-A

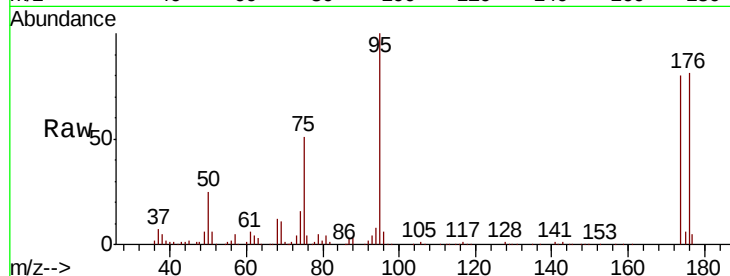
Tot Ion: 75 Resp: 150539

Ion Ratio Lower Upper

75 100

53 0.0 109.4 164.2#

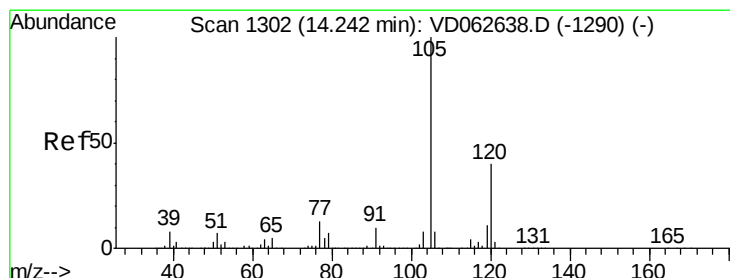
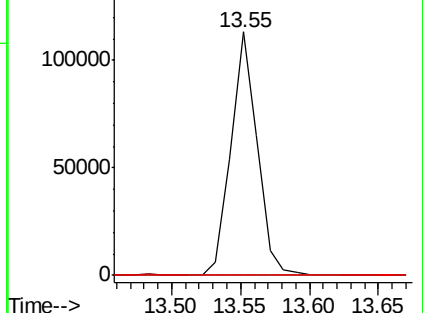
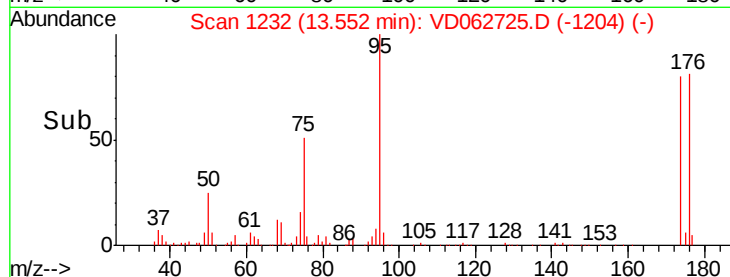
89 0.0 37.0 55.6#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC



#84

1,2,4-Trimethylbenzene

Concen: 1.151 ug/l

RT: 14.23 min Scan# 1301

Delta R.T. -0.01 min

Lab File: VD062725.D

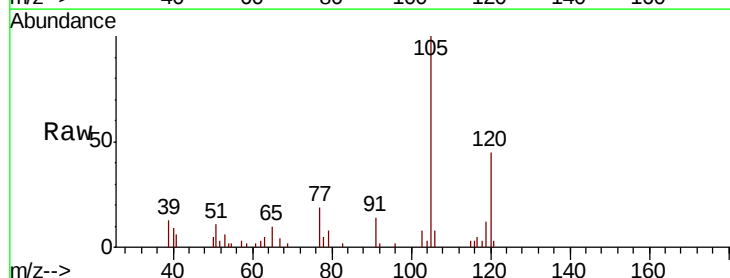
Acq: 17 Jun 2019 14:34

Tgt Ion:105 Resp: 29917

Ion Ratio Lower Upper

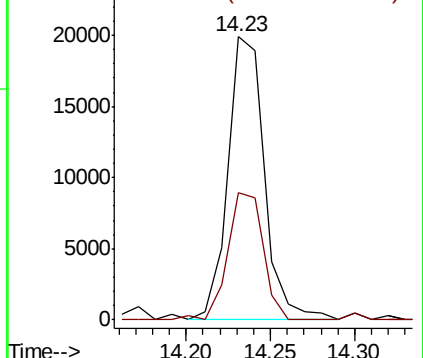
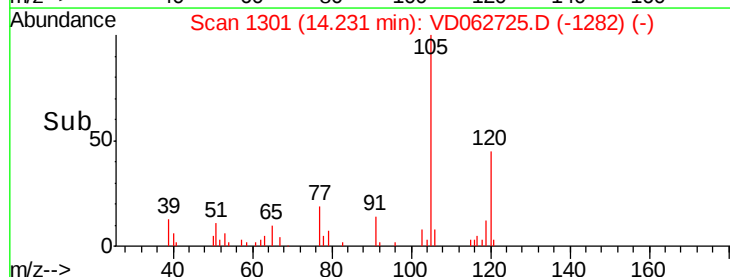
105 100

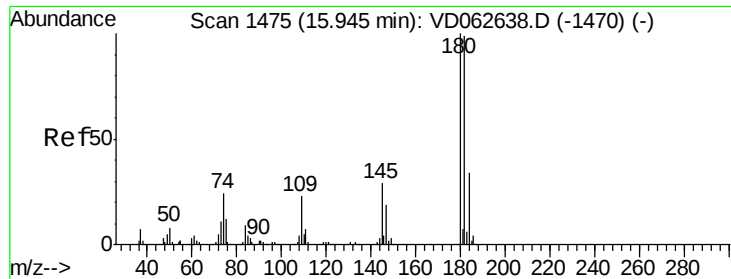
120 45.2 20.3 60.8



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

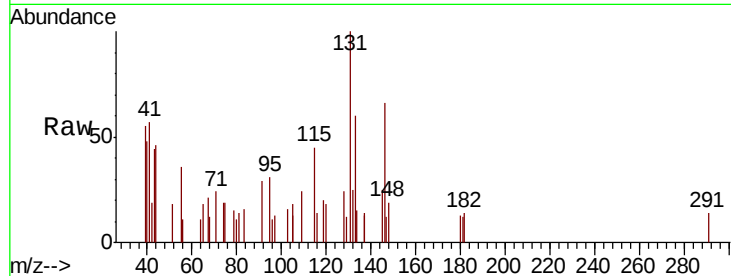




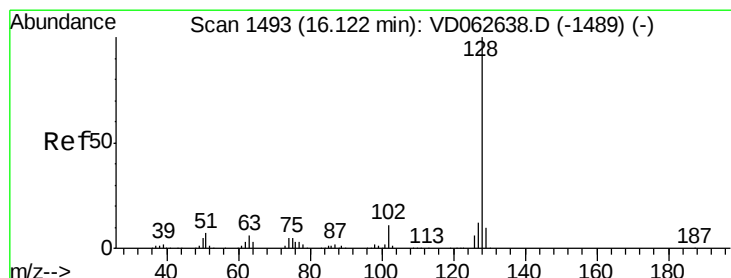
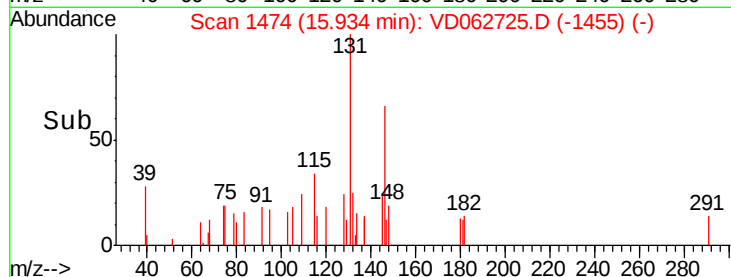
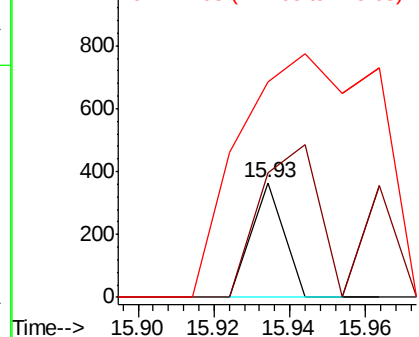
#93
 1,2,4-Trichlorobenzene
 Concen: 3.587 ug/l
 RT: 15.93 min Scan# 1474
 Delta R.T. -0.01 min
 Lab File: VD062725.D
 Acq: 17 Jun 2019 14:34

Instrument :
 MSVOA_D
 ClientSampleId :
 JC-02-061419-A

Tot Ion:180 Resp: 216
 Ion Ratio Lower Upper
 180 100
 182 108.2 49.4 148.2
 145 188.2 14.5 43.6#

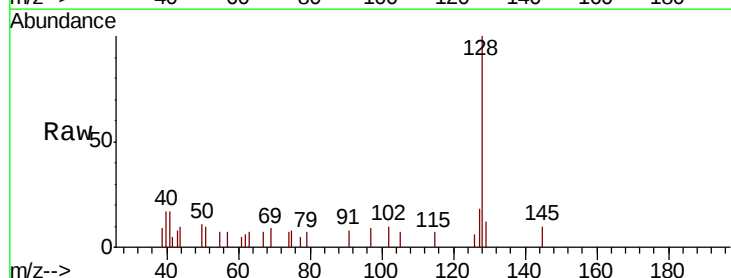


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V



#95
 Naphthalene
 Concen: 3.986 ug/l
 RT: 16.12 min Scan# 1493
 Delta R.T. 0.00 min
 Lab File: VD062725.D
 Acq: 17 Jun 2019 14:34

Tgt Ion:128 Resp: 8802
 Ion Ratio Lower Upper
 128 100
 127 18.4 9.7 14.5#
 129 12.4 8.1 12.1#



Abundance Ion 128.00 (127.70 to 128.70): V
 Ion 127.00 (126.70 to 127.70): V
 Ion 129.00 (128.70 to 129.70): V

