

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD072219\
 Data File : VD063174.D
 Acq On : 22 Jul 2019 13:58
 Operator : VA/AP
 Sample : K3621-05
 Misc : 6.78g/5ml/MSVOA D/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 OK-02-071919

Quant Time: Jul 23 07:49:03 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D071519S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 16 08:11:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.05	168	763392	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	8.22	114	1076379	50.00	ug/l	0.02
63) Chlorobenzene-d5	12.37	117	724522	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	14.52	152	252638	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	626015	65.83	ug/l	0.00
Spiked Amount			Recovery	=	131.66%	
35) Dibromofluoromethane	6.93	113	669330	62.43	ug/l	0.02
Spiked Amount			Recovery	=	124.86%	
50) Toluene-d8	10.42	98	1236394	53.69	ug/l	0.02
Spiked Amount			Recovery	=	107.38%	
62) 4-Bromofluorobenzene	13.56	95	410541	38.53	ug/l	0.00
Spiked Amount			Recovery	=	77.06%	

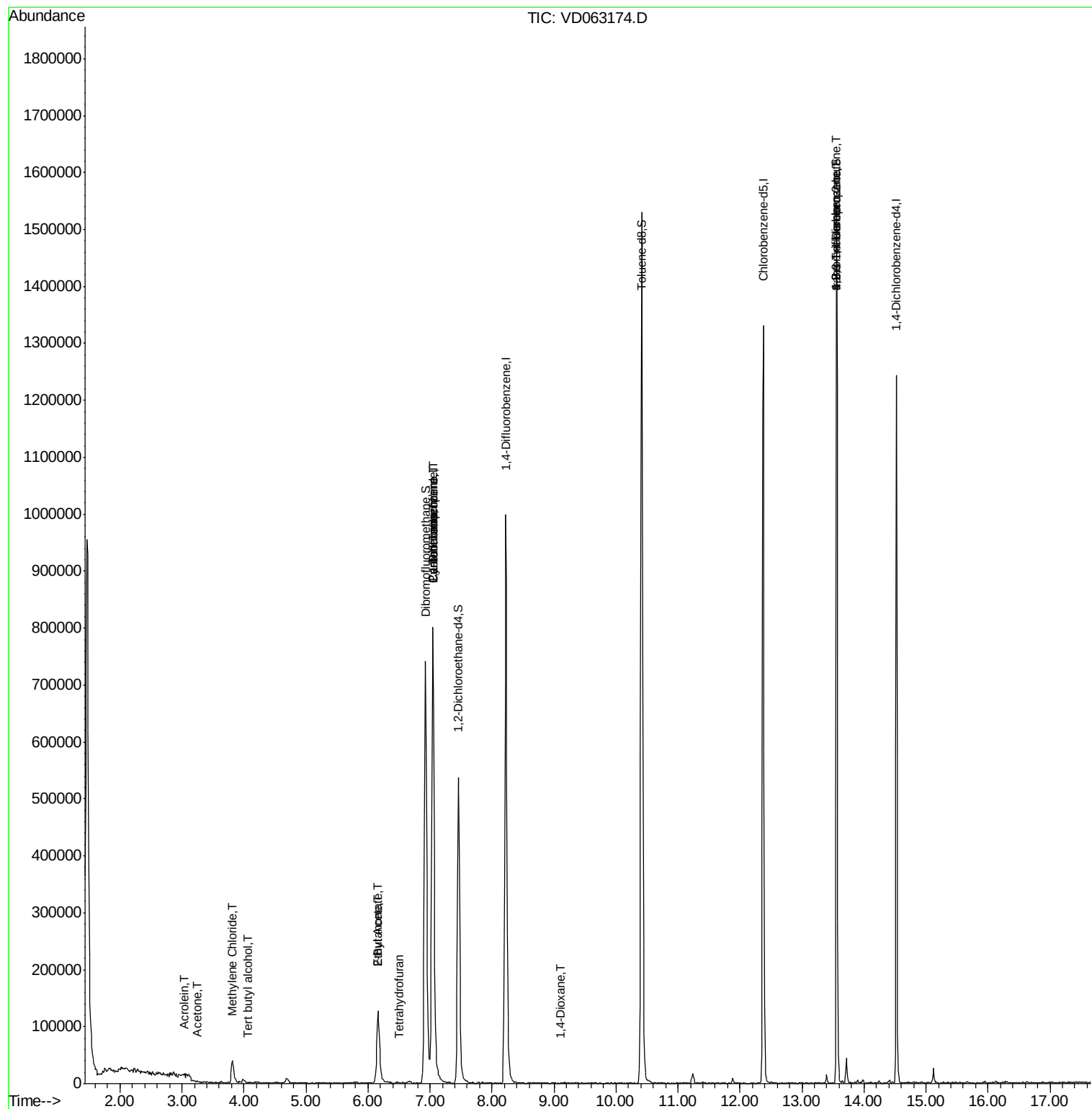
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.57	85	669	Below Cal	#	43
3) Chloromethane	1.75	50	500	Below Cal	#	48
5) Bromomethane	2.14	94	1644	Below Cal	#	13
11) Tert butyl alcohol	4.08	59	2089	3.806	ug/l #	77
13) Acrolein	3.04	56	262	1.582	ug/l #	35
16) Acetone	3.23	43	2708	1.179	ug/l #	62
18) Methyl Acetate	3.63	43	1004	Below Cal	#	63
20) Methylene Chloride	3.81	84	23961	2.761	ug/l #	87
25) 2-Butanone	6.16	43	10679	4.869	ug/l #	61
29) Tetrahydrofuran	6.50	42	997	1.003	ug/l #	33
31) Cyclohexane	7.04	56	17820	1.968	ug/l #	22
36) 1,1-Dichloropropene	7.05	75	59256	4.895	ug/l #	50
37) Ethyl Acetate	6.16	43	10679	2.061	ug/l #	1
38) Carbon Tetrachloride	7.05	117	77320	4.203	ug/l #	14
49) 1,4-Dioxane	9.09	88	224	5.326	ug/l #	27
76) 1,2,3-Trichloropropane	13.56	75	163791	42.146	ug/l #	45
81) trans-1,4-Dichloro-2-buten	13.56	75	196221	191.733	ug/l #	1

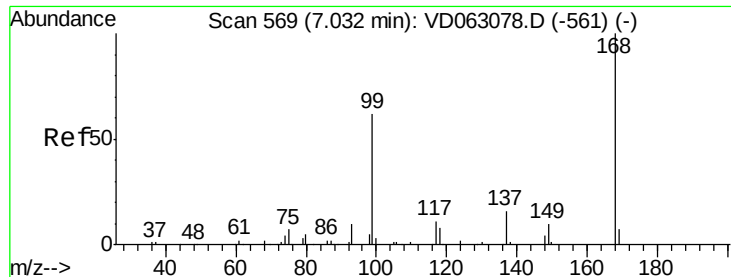
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 571

Delta R.T. 0.02 min

Lab File: VD063174.D

Acq: 22 Jul 2019 13:58

Instrument :

MSVOA_D

ClientSampleId :

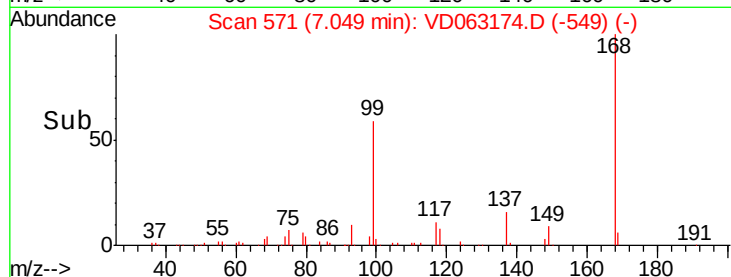
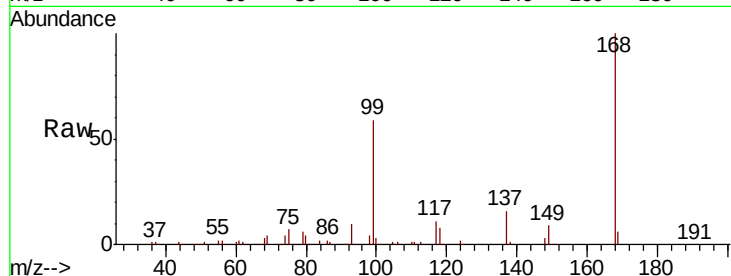
OK-02-071919

Tot Ion:168 Resp: 763392

Ion Ratio Lower Upper

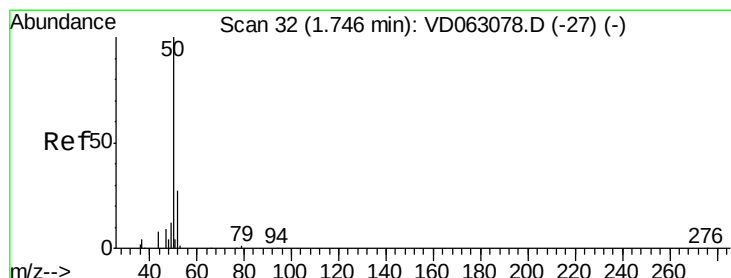
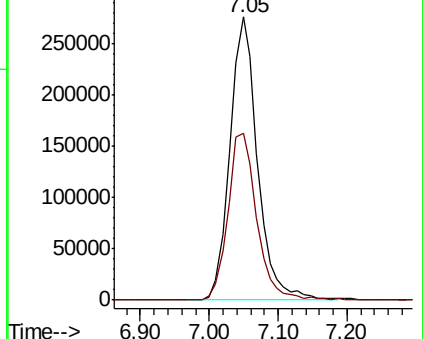
168 100

99 59.1 50.8 76.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#3

Chloromethane

Concen: Below Cal

RT: 1.75 min Scan# 33

Delta R.T. 0.01 min

Lab File: VD063174.D

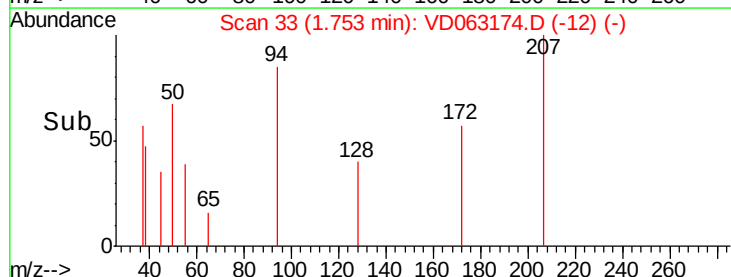
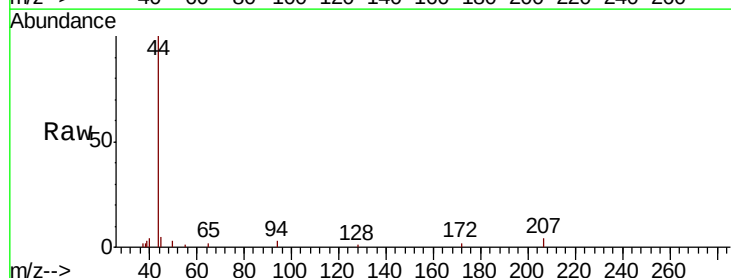
Acq: 22 Jul 2019 13:58

Tgt Ion: 50 Resp: 500

Ion Ratio Lower Upper

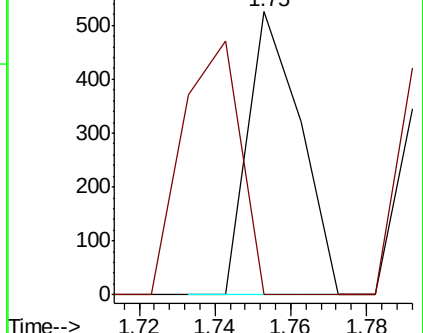
50 100

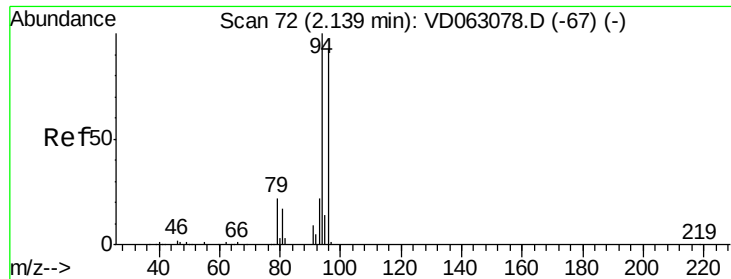
52 0.0 21.4 32.2#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC





#5

Bromomethane

Concen: Below Cal

RT: 2.14 min Scan# 72

Delta R.T. -0.00 min

Lab File: VD063174.D

Acq: 22 Jul 2019 13:58

Instrument :

MSVOA_D

ClientSampleId :

OK-02-071919

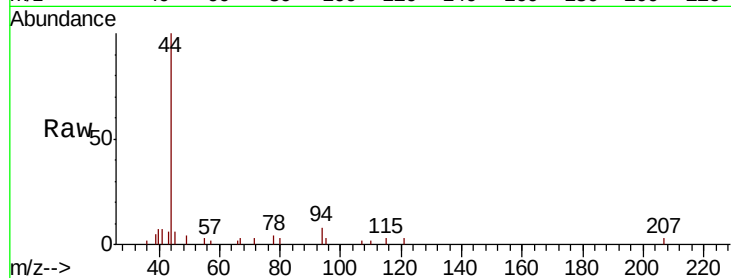
Tot Ion: 94 Resp: 1644

Ion Ratio Lower Upper

94 100

96 0.0 74.2 111.2#

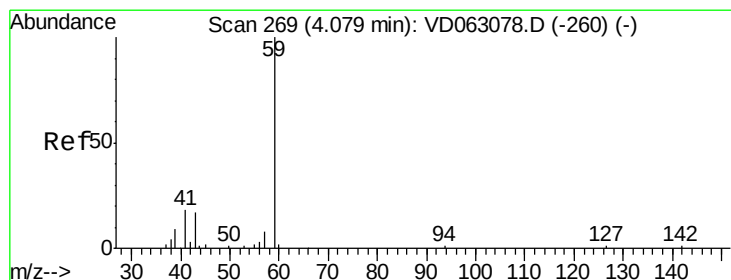
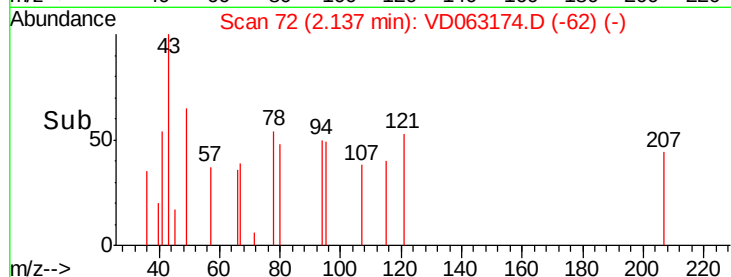
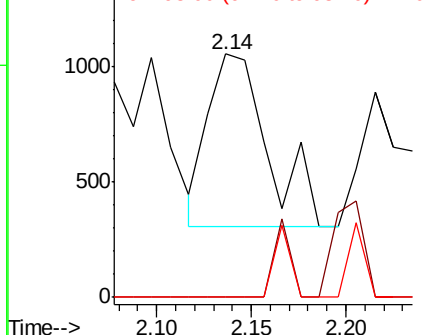
93 0.0 17.8 26.6#



Abundance Ion 94.00 (93.70 to 94.70): VDC

Ion 96.00 (95.70 to 96.70): VDC

Ion 93.00 (92.70 to 93.70): VDC



#11

Tert butyl alcohol

Concen: 3.806 ug/l

RT: 4.08 min Scan# 269

Delta R.T. -0.00 min

Lab File: VD063174.D

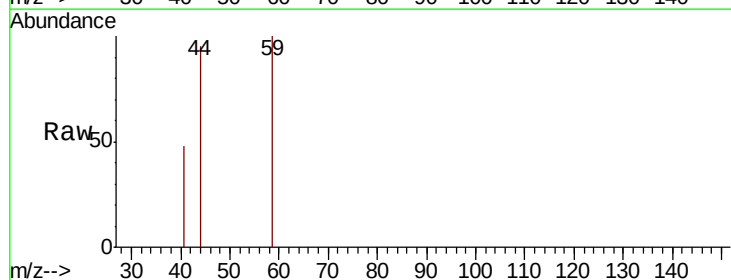
Acq: 22 Jul 2019 13:58

Tgt Ion: 59 Resp: 2089

Ion Ratio Lower Upper

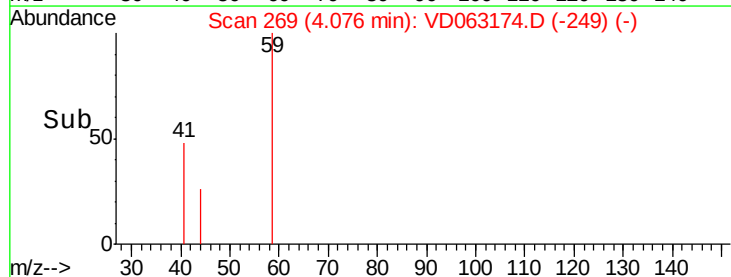
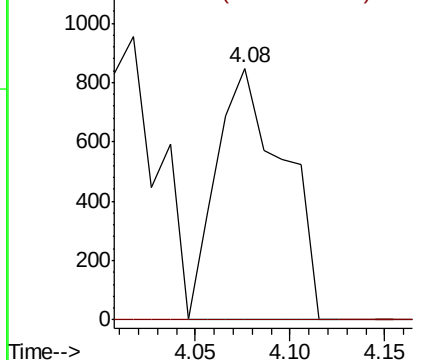
59 100

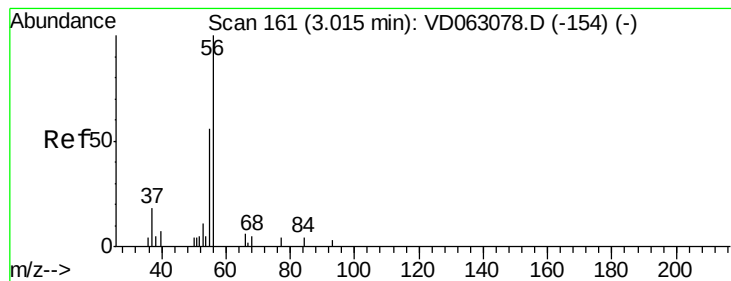
57 0.0 6.4 9.6#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC





#13

Acrolein

Concen: 1.582 ug/l

RT: 3.04 min Scan# 164

Delta R.T. 0.03 min

Lab File: VD063174.D

Acq: 22 Jul 2019 13:58

Instrument :

MSVOA_D

ClientSampleId :

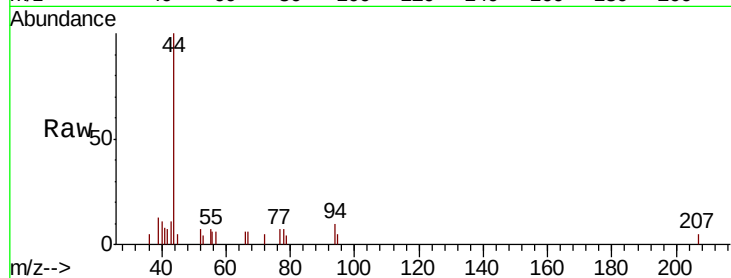
OK-02-071919

Tot Ion: 56 Resp: 262

Ion Ratio Lower Upper

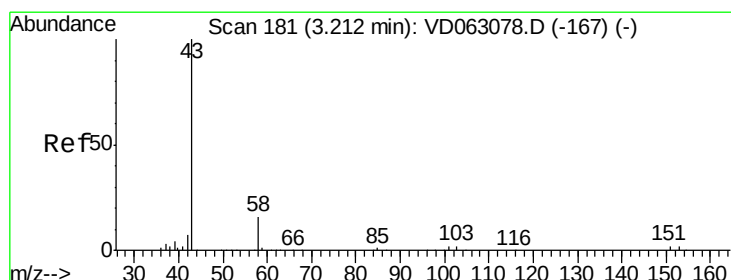
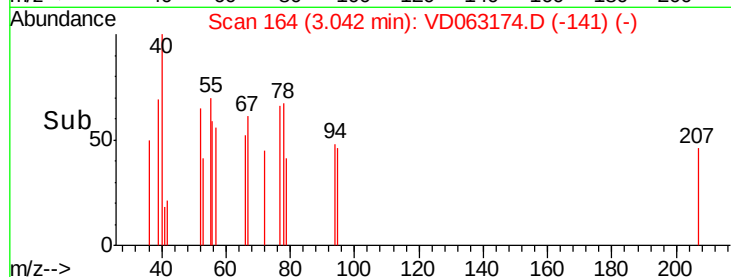
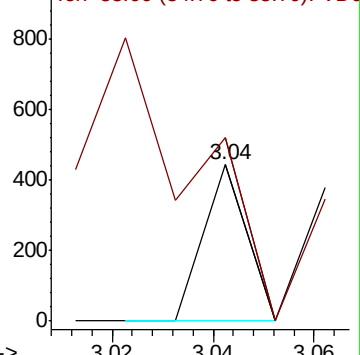
56 100

55 117.8 53.0 79.4#



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC



#16

Acetone

Concen: 1.179 ug/l

RT: 3.23 min Scan# 183

Delta R.T. 0.02 min

Lab File: VD063174.D

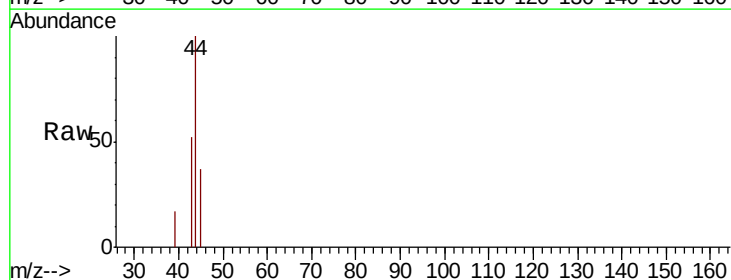
Acq: 22 Jul 2019 13:58

Tgt Ion: 43 Resp: 2708

Ion Ratio Lower Upper

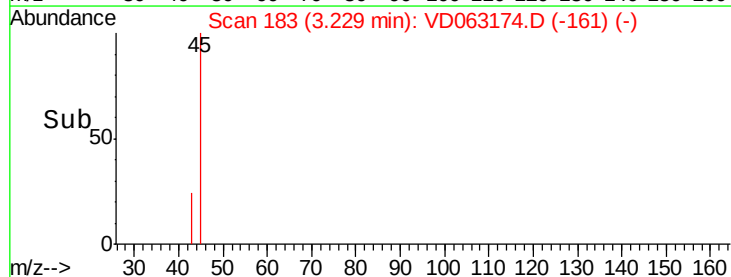
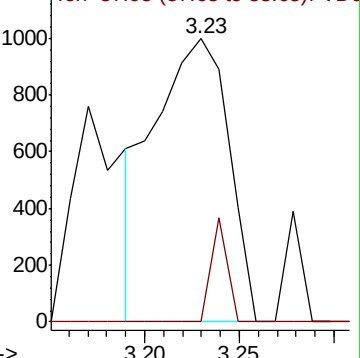
43 100

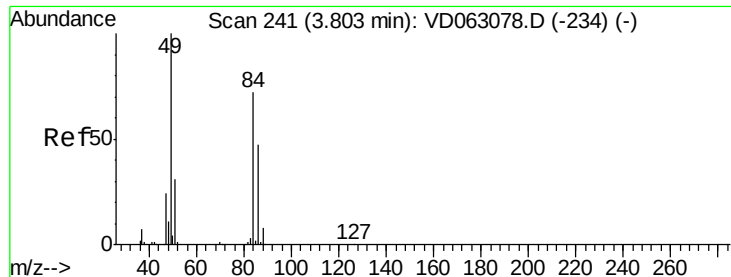
58 0.0 13.0 19.4#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

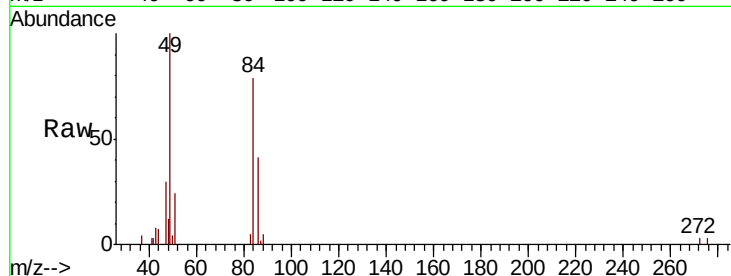




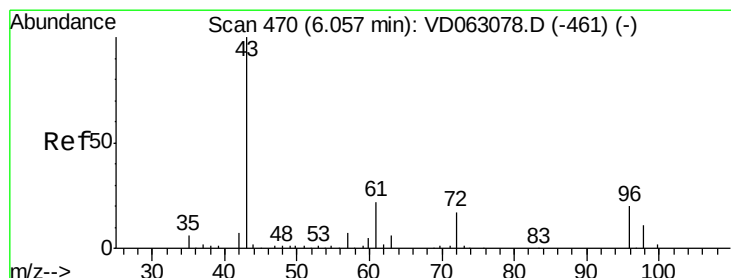
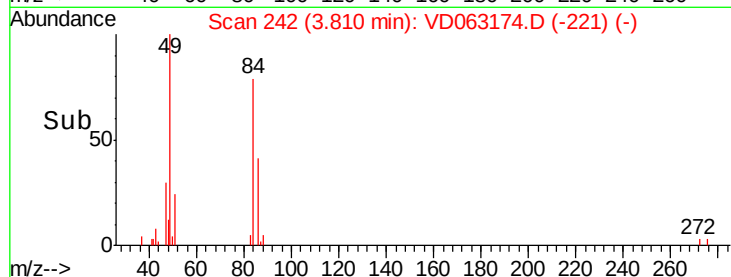
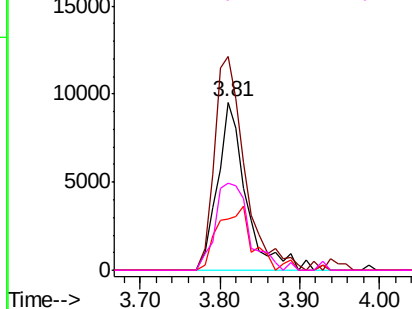
#20
Methylene Chloride
Concen: 2.761 ug/l
RT: 3.81 min Scan# 242
Delta R.T. 0.01 min
Lab File: VD063174.D
Acq: 22 Jul 2019 13:58

Instrument :
MSVOA_D
ClientSampleId :
OK-02-071919

Tot Ion: 84 Resp: 23961
Ion Ratio Lower Upper
84 100
49 127.0 110.5 165.7
51 30.3 34.6 51.8#
86 51.7 51.6 77.4

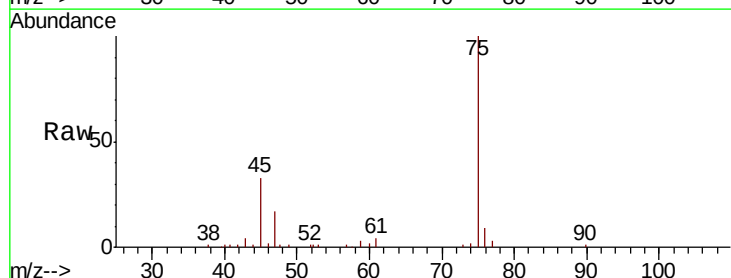


Abundance Ion 83.95 (83.65 to 84.65): VDC
Ion 48.90 (48.60 to 49.60): VDC
Ion 50.90 (50.60 to 51.60): VDC
Ion 85.90 (85.60 to 86.60): VDC

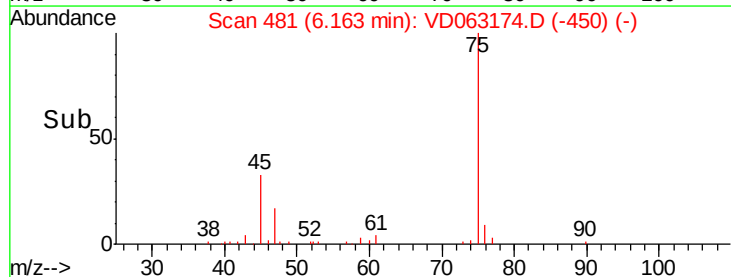
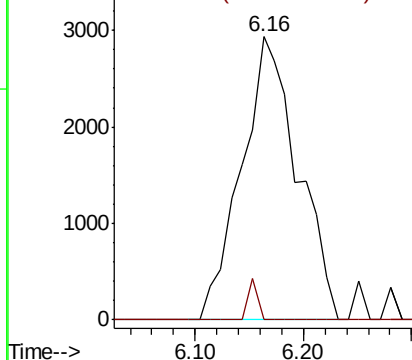


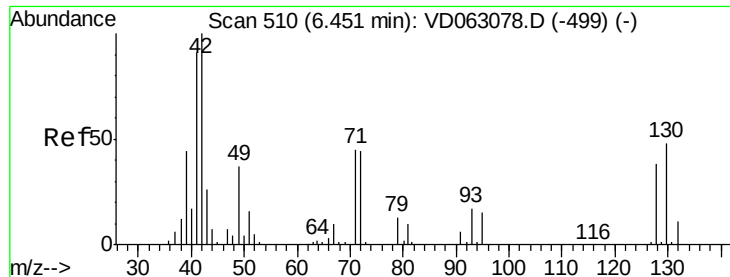
#25
2-Butanone
Concen: 4.869 ug/l
RT: 6.16 min Scan# 481
Delta R.T. 0.11 min
Lab File: VD063174.D
Acq: 22 Jul 2019 13:58

Tgt Ion: 43 Resp: 10679
Ion Ratio Lower Upper
43 100
72 0.0 13.4 20.0#



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 72.00 (71.70 to 72.70): VDC





#29

Tetrahydrofuran

Concen: 1.003 ug/l

RT: 6.50 min Scan# 515

Delta R.T. 0.05 min

Lab File: VD063174.D

Acq: 22 Jul 2019 13:58

Instrument :

MSVOA_D

ClientSampleId :

OK-02-071919

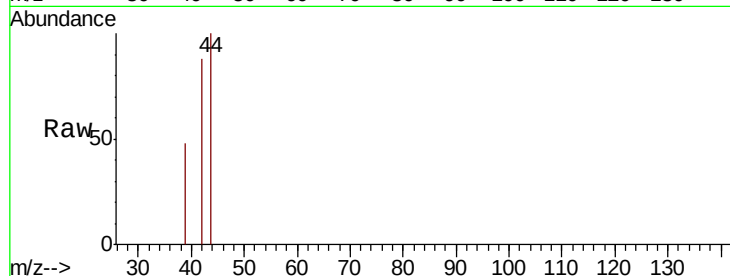
Tot Ion: 42 Resp: 997

Ion Ratio Lower Upper

42 100

72 0.0 33.7 50.5#

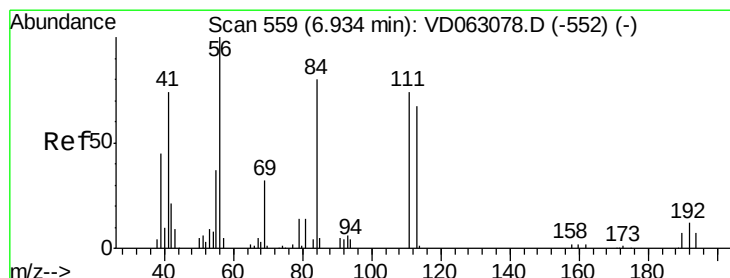
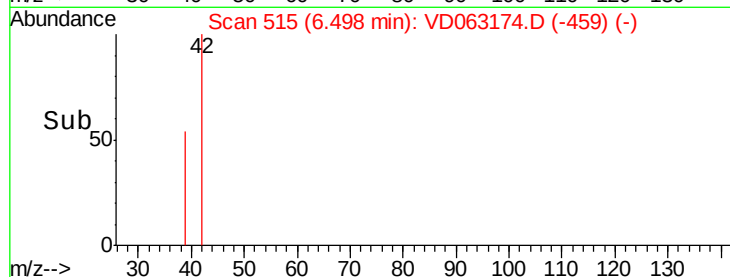
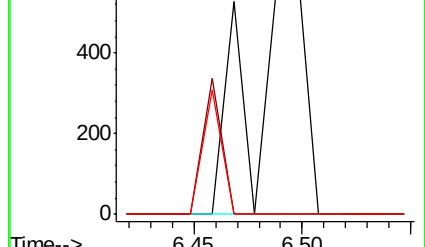
71 0.0 34.2 51.2#



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

6.50

6.45



#31

Cyclohexane

Concen: 1.968 ug/l

RT: 7.04 min Scan# 570

Delta R.T. 0.11 min

Lab File: VD063174.D

Acq: 22 Jul 2019 13:58

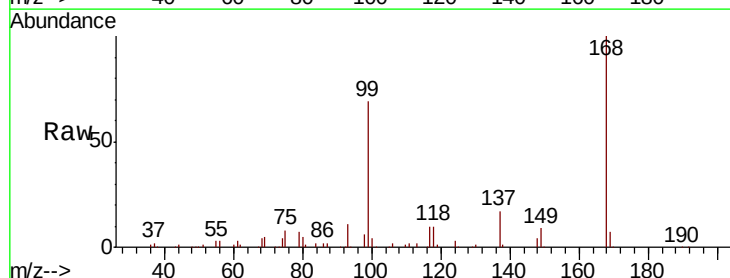
Tgt Ion: 56 Resp: 17820

Ion Ratio Lower Upper

56 100

69 184.5 25.3 37.9#

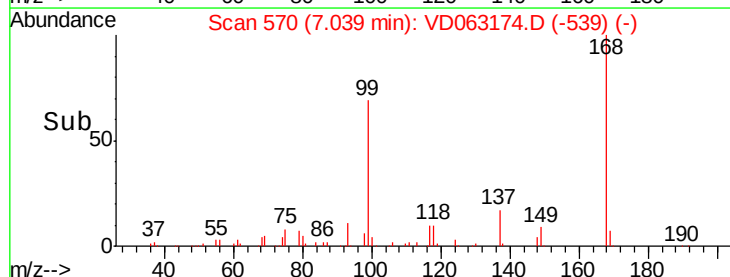
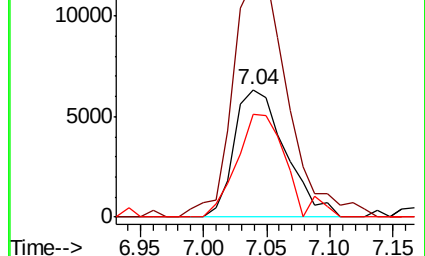
84 80.8 64.2 96.4

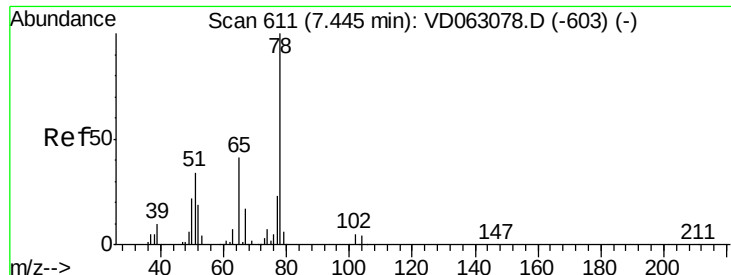


Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC

7.04

7.00

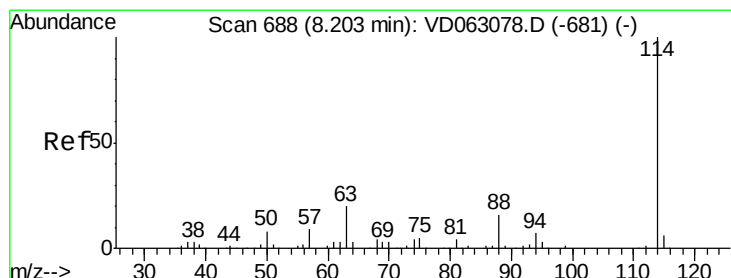
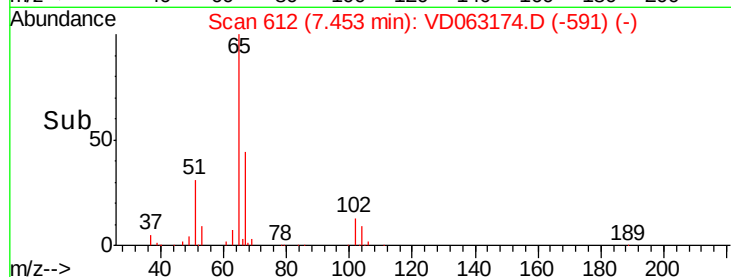
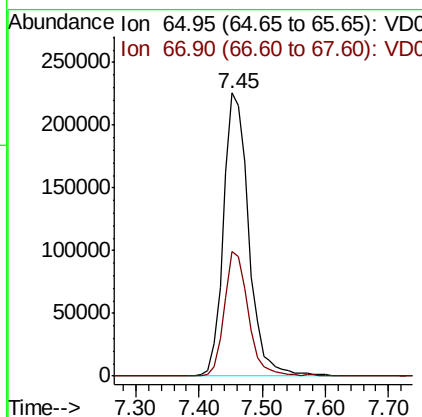
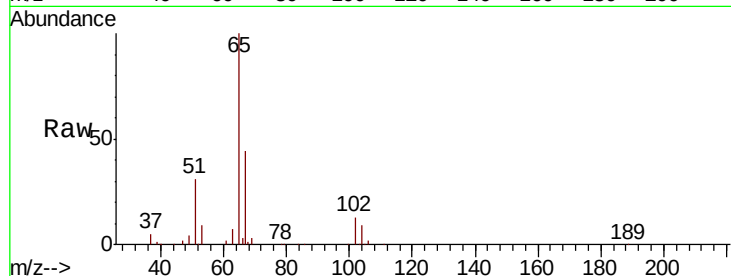




#33
 1,2-Dichloroethane-d4
 Concen: 65.830 ug/l
 RT: 7.45 min Scan# 612
 Delta R.T. 0.01 min
 Lab File: VD063174.D
 Acq: 22 Jul 2019 13:58

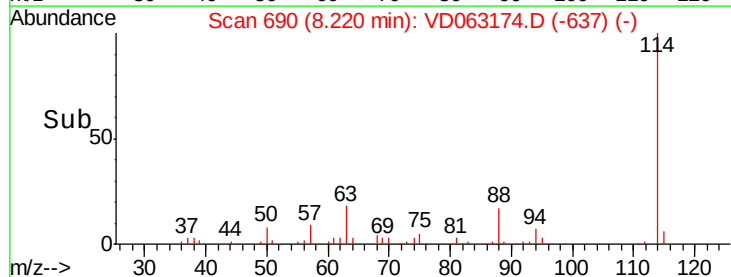
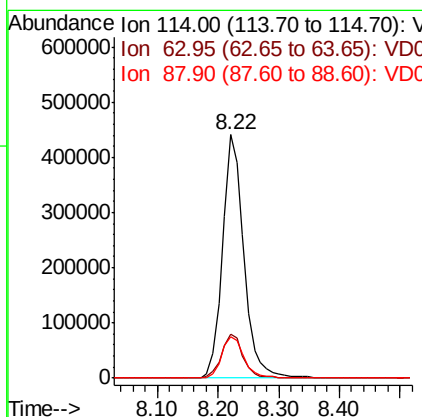
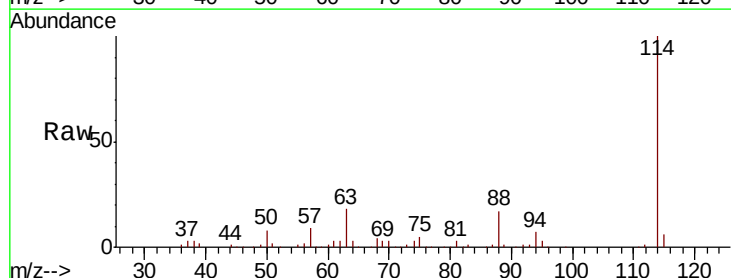
Instrument :
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 OK-02-071919

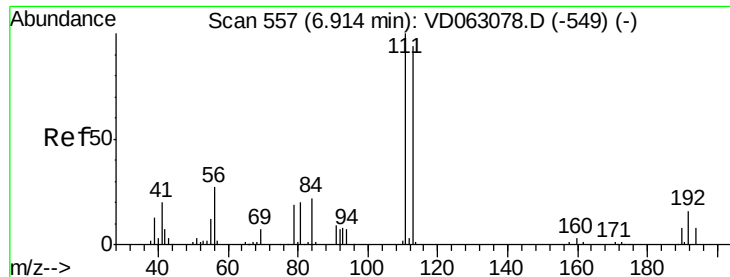
Tot Ion: 65 Resp: 626015
 Ion Ratio Lower Upper
 65 100
 67 44.0 0.0 86.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.22 min Scan# 690
 Delta R.T. 0.02 min
 Lab File: VD063174.D
 Acq: 22 Jul 2019 13:58

Tgt Ion: 114 Resp: 1076379
 Ion Ratio Lower Upper
 114 100
 63 17.8 0.0 40.6
 88 17.2 0.0 32.6

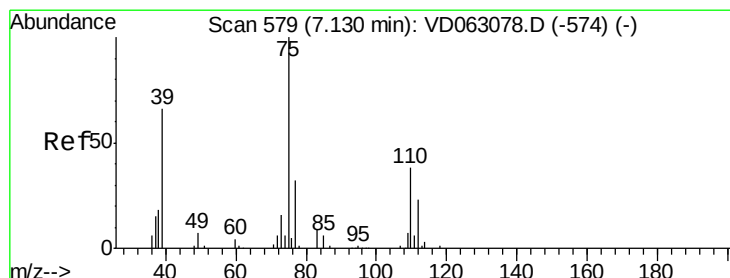
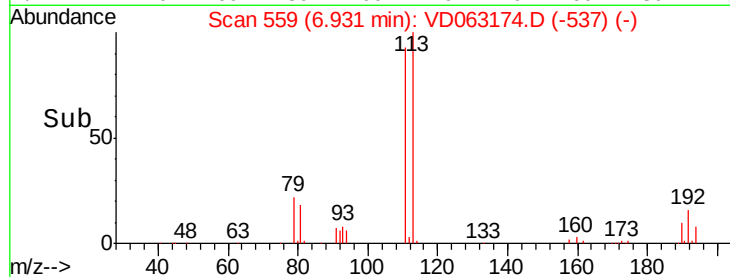
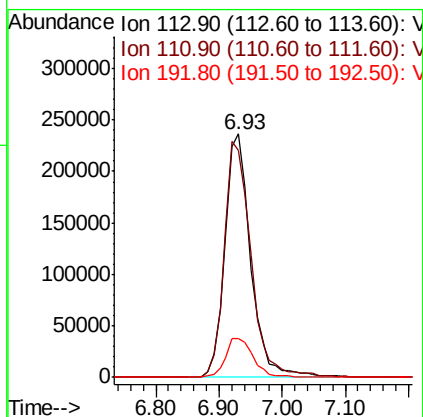
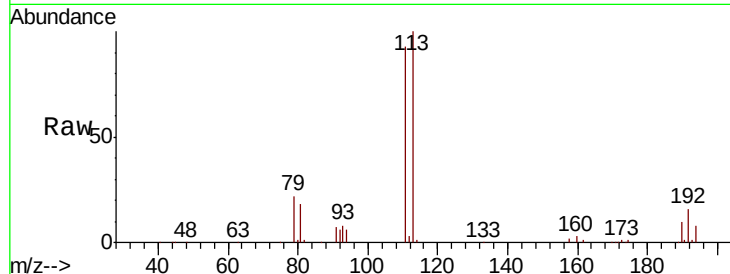




#35
 Dibromofluoromethane
 Concen: 62.432 ug/l
 RT: 6.93 min Scan# 559
 Delta R.T. 0.02 min
 Lab File: VD063174.D
 Acq: 22 Jul 2019 13:58

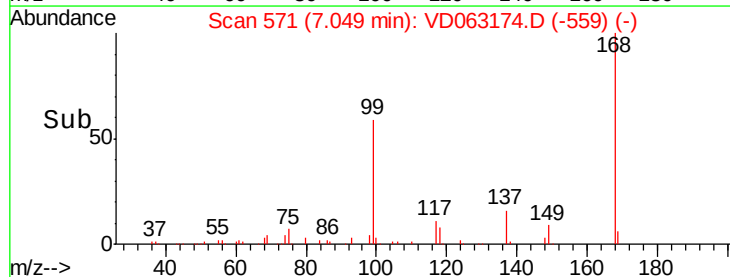
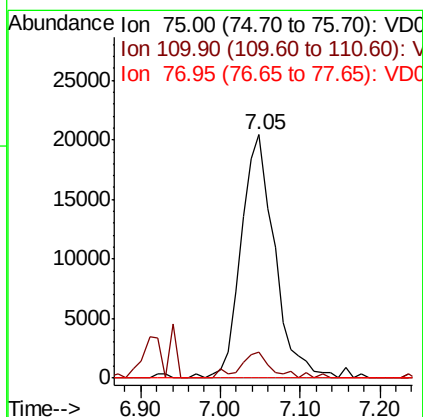
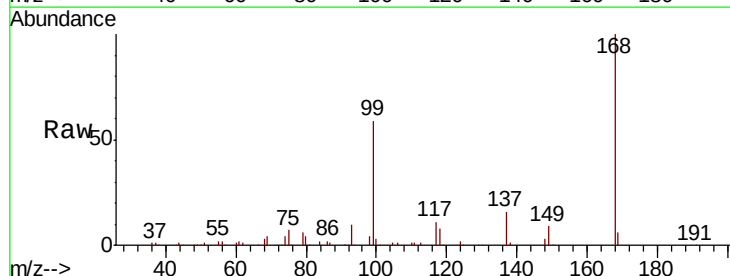
Instrument :
 MSVOA_D
 ClientSampleId :
 OK-02-071919

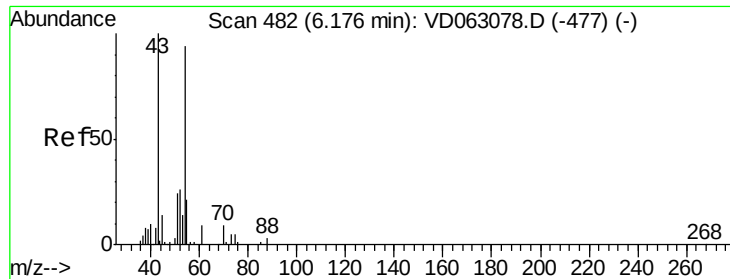
Tot Ion	Ratio	Lower	Upper
113	100		
111	93.3	84.8	127.2
192	16.0	13.4	20.0



#36
 1,1-Dichloropropene
 Concen: 4.895 ug/l
 RT: 7.05 min Scan# 571
 Delta R.T. -0.08 min
 Lab File: VD063174.D
 Acq: 22 Jul 2019 13:58

Tgt Ion	Ratio	Lower	Upper
75	100		
110	10.6	18.9	56.5#
77	0.0	25.2	37.8#

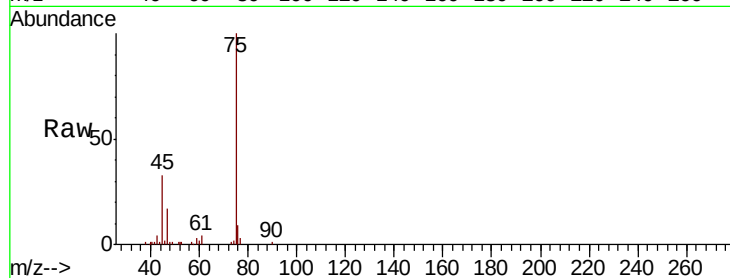




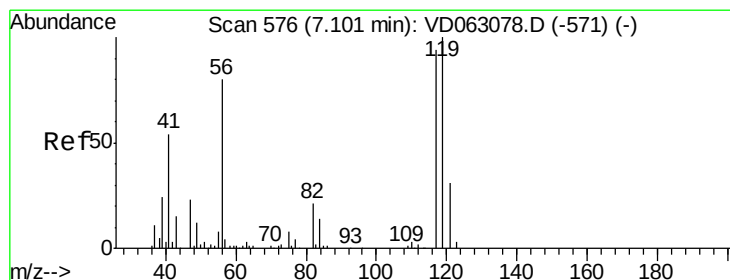
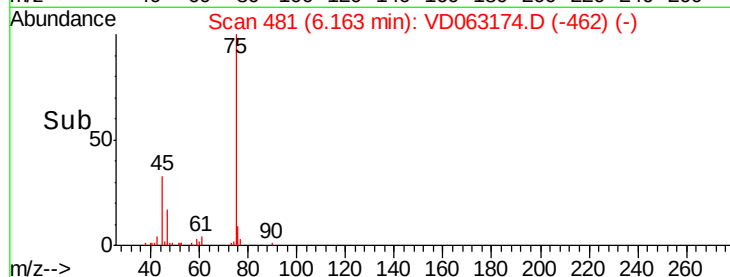
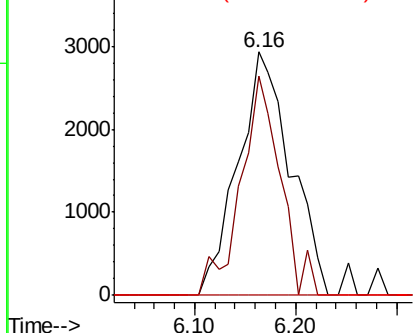
#37
Ethyl Acetate
Concen: 2.061 ug/l
RT: 6.16 min Scan# 481
Delta R.T. -0.01 min
Lab File: VD063174.D
Acq: 22 Jul 2019 13:58

Instrument :
MSVOA_D
ClientSampleId :
OK-02-071919

Tot Ion	Ratio	Lower	Upper
43	100		
61	89.8	10.6	16.0#
70	0.0	6.6	9.8#

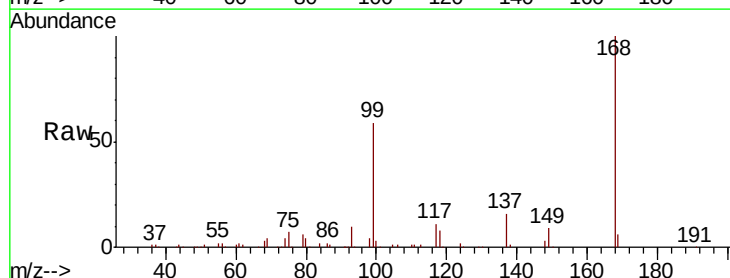


Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 70.00 (69.70 to 70.70): VDC

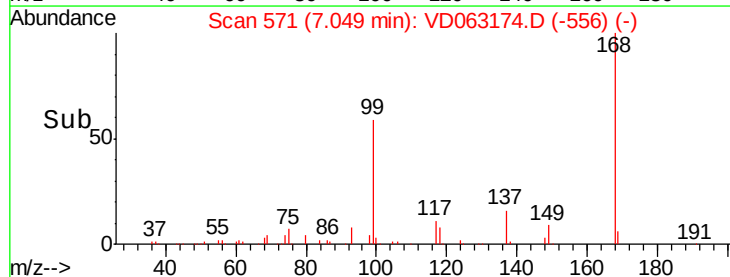
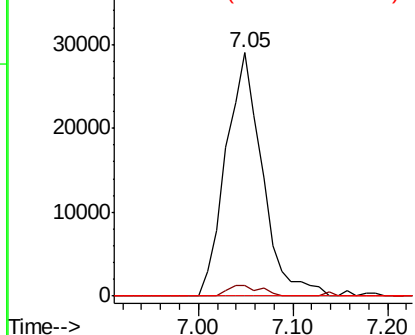


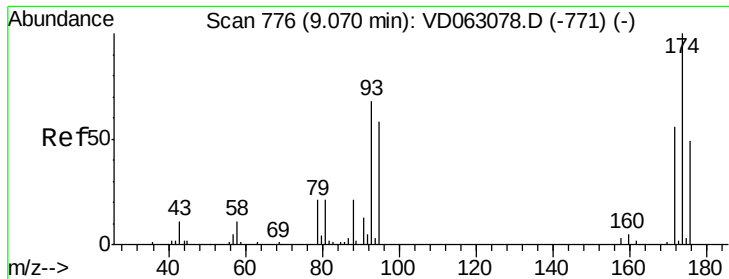
#38
Carbon Tetrachloride
Concen: 4.203 ug/l
RT: 7.05 min Scan# 571
Delta R.T. -0.05 min
Lab File: VD063174.D
Acq: 22 Jul 2019 13:58

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.6	80.0	120.0#
121	0.0	25.0	37.4#



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

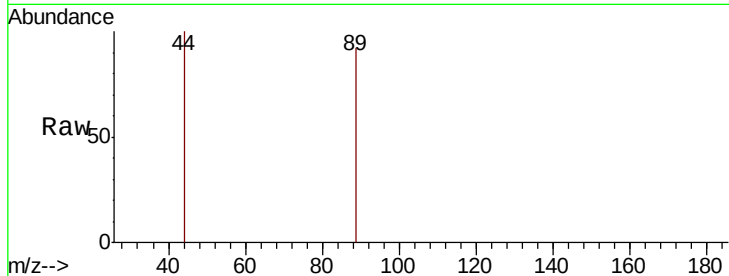




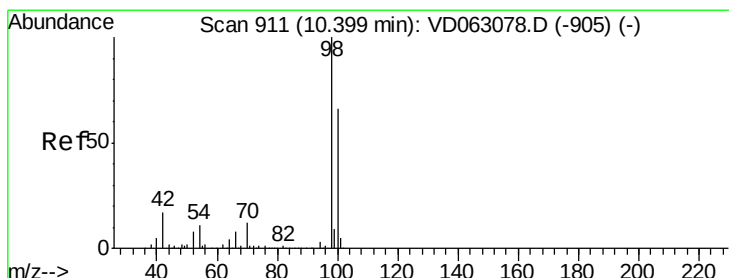
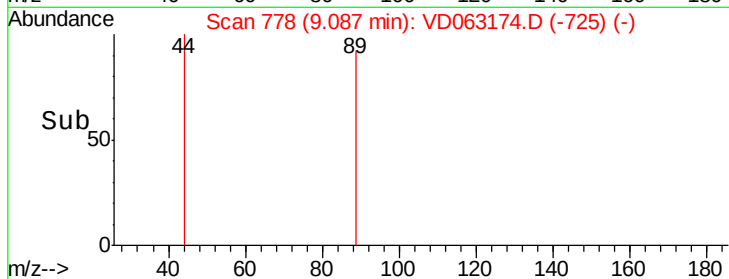
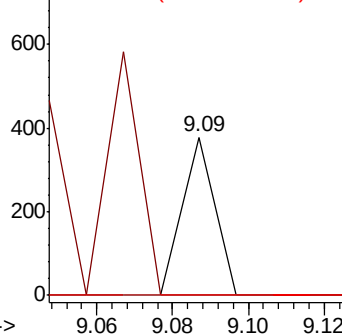
#49
 1,4-Dioxane
 Concen: 5.326 ug/l
 RT: 9.09 min Scan# 778
 Delta R.T. 0.02 min
 Lab File: VD063174.D
 Acq: 22 Jul 2019 13:58

Instrument :
 MSVOA_D
 ClientSampleId :
 OK-02-071919

Tot Ion: 88 Resp: 224
 Ion Ratio Lower Upper
 88 100
 43 0.0 40.2 60.4#
 58 0.0 41.6 62.4#

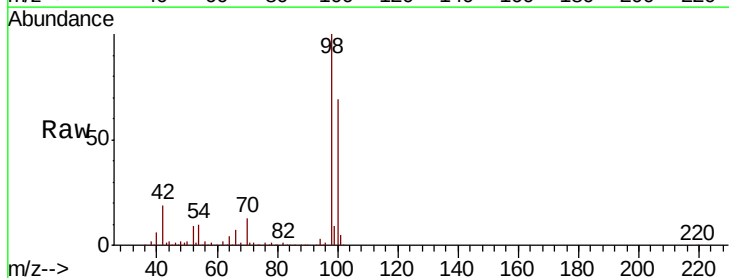


Abundance Ion 88.00 (87.70 to 88.70): VDC
 Ion 43.05 (42.75 to 43.75): VDC
 Ion 57.95 (57.65 to 58.65): VDC

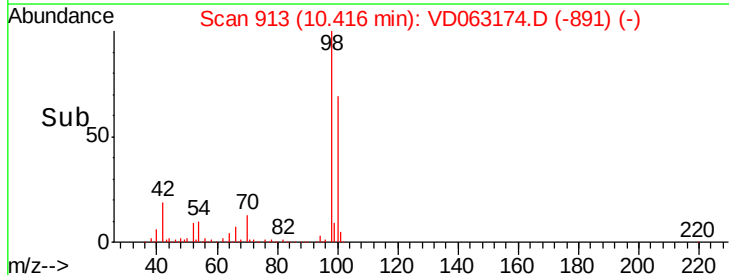
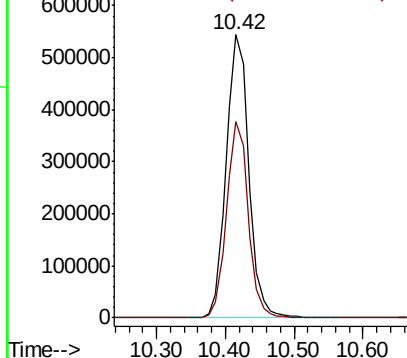


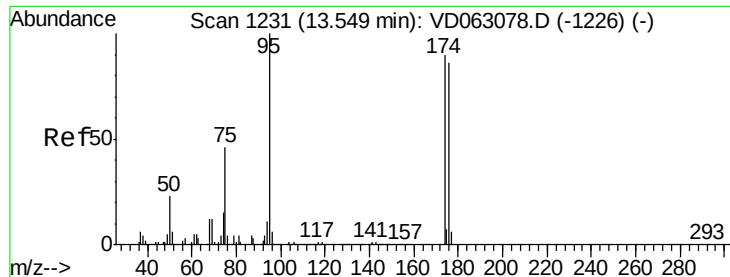
#50
 Toluene-d8
 Concen: 53.689 ug/l
 RT: 10.42 min Scan# 913
 Delta R.T. 0.02 min
 Lab File: VD063174.D
 Acq: 22 Jul 2019 13:58

Tgt Ion: 98 Resp: 1236394
 Ion Ratio Lower Upper
 98 100
 100 69.4 53.5 80.3



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

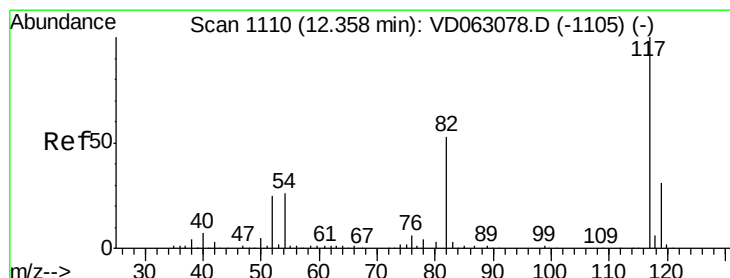
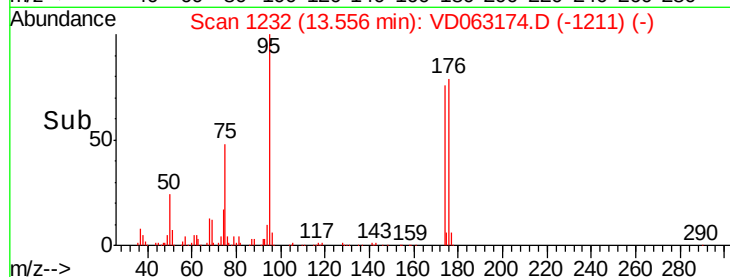
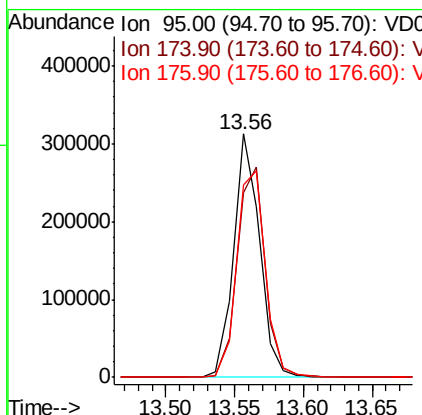
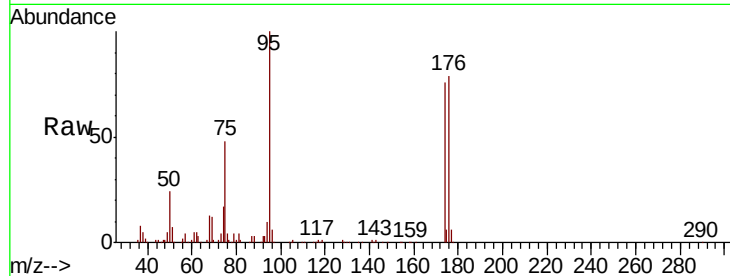




#62
4-Bromofluorobenzene
Concen: 38.534 ug/l
RT: 13.56 min Scan# 1232
Delta R.T. 0.01 min
Lab File: VD063174.D
Acq: 22 Jul 2019 13:58

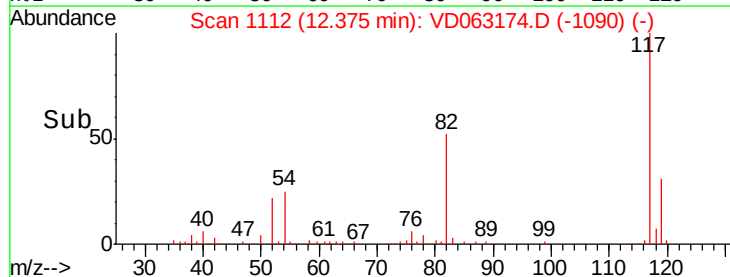
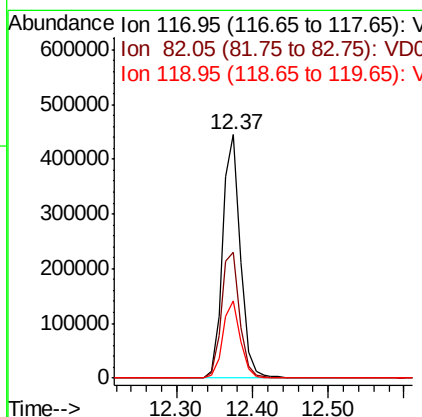
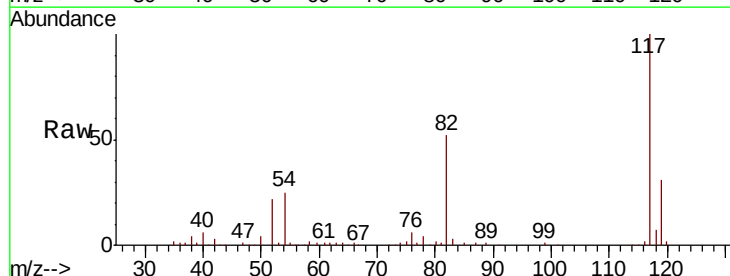
Instrument :
MSVOA_D
ClientSampleId :
OK-02-071919

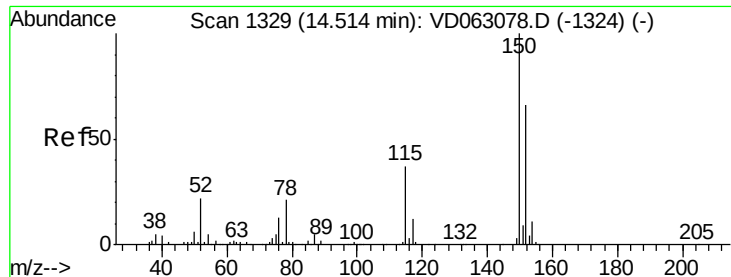
Tot Ion: 95 Resp: 410541
Ion Ratio Lower Upper
95 100
174 76.1 0.0 180.6
176 78.8 0.0 172.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1112
Delta R.T. 0.02 min
Lab File: VD063174.D
Acq: 22 Jul 2019 13:58

Tgt Ion: 117 Resp: 724522
Ion Ratio Lower Upper
117 100
82 51.9 42.3 63.5
119 31.5 25.2 37.8





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.52 min Scan# 1330

Delta R.T. 0.01 min

Lab File: VD063174.D

Acq: 22 Jul 2019 13:58

Instrument :

MSVOA_D

ClientSampleId :

OK-02-071919

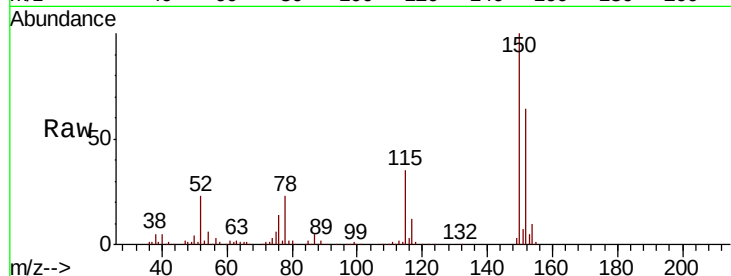
Tot Ion:152 Resp: 252638

Ion Ratio Lower Upper

152 100

115 55.0 28.9 86.8

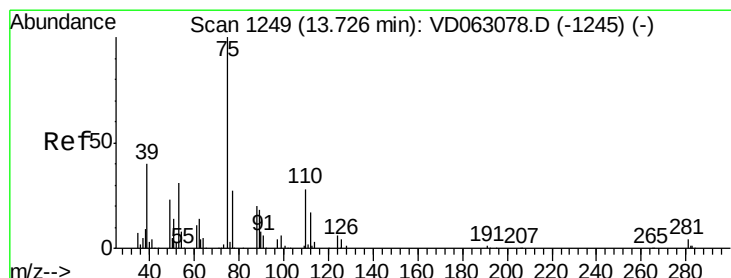
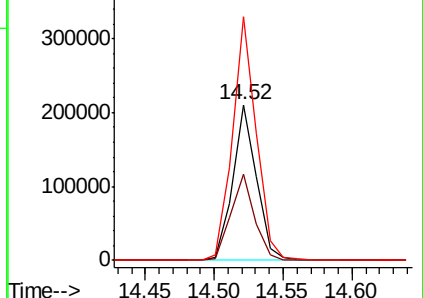
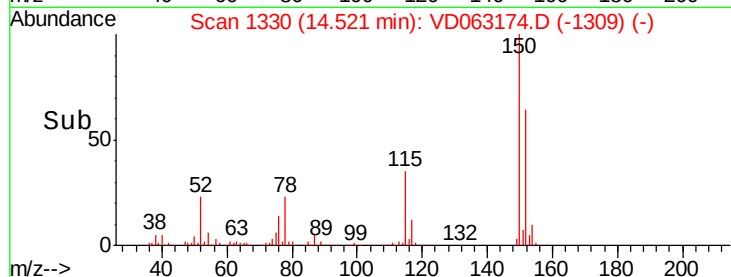
150 156.2 0.0 313.8



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 115.00 (114.70 to 115.70): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 42.146 ug/l

RT: 13.56 min Scan# 1232

Delta R.T. -0.17 min

Lab File: VD063174.D

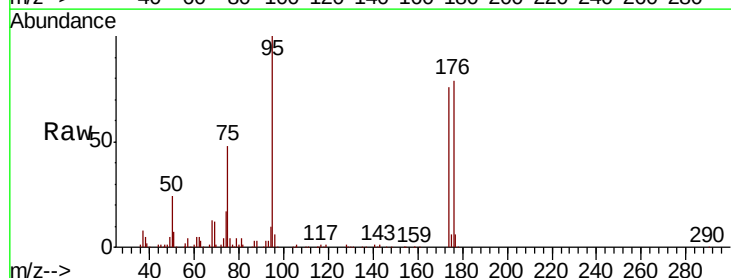
Acq: 22 Jul 2019 13:58

Tgt Ion: 75 Resp: 163791

Ion Ratio Lower Upper

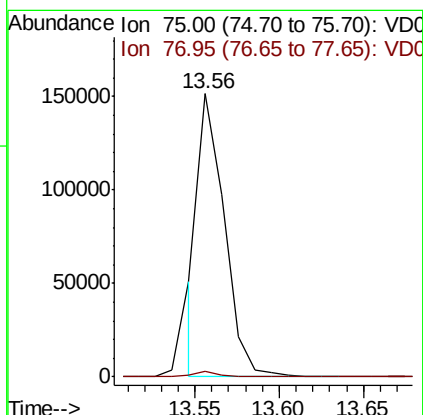
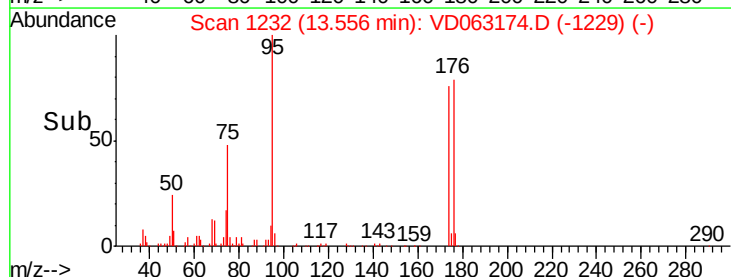
75 100

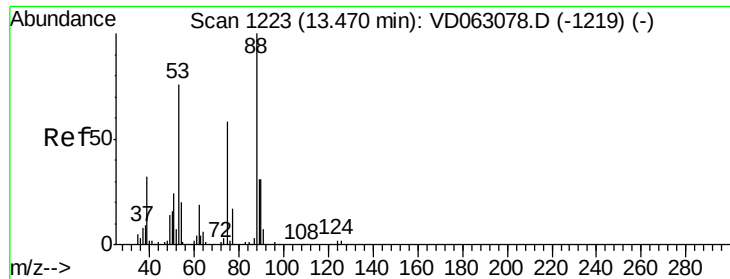
77 1.8 16.3 48.8#



Abundance Ion 75.00 (74.70 to 75.70): V

Ion 76.95 (76.65 to 77.65): V





#81

trans-1,4-Dichloro-2-butene

Concen: 191.733 ug/l

RT: 13.56 min Scan# 1232

Delta R.T. 0.09 min

Lab File: VD063174.D

Acq: 22 Jul 2019 13:58

Instrument :

MSVOA_D

ClientSampleId :

OK-02-071919

Tot Ion: 75 Resp: 196221

Ion Ratio Lower Upper

75 100

53 0.0 104.4 156.6#

89 0.0 43.1 64.7#

