

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD041019\
 Data File : VD061715.D
 Acq On : 10 Apr 2019 16:14
 Operator : VA/AP
 Sample : K2316-03
 Misc : 5.03g/5ml/MSVOA_D/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 20190171-COMP-CS-3

Manual Integrations
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 4/11/2019 11:45:46 AM

Quant Time: Apr 11 08:13:54 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D040619S.M
 Quant Title : SW846 8260
 QLast Update : Mon Apr 08 10:04:03 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.07	168	565530	50.00	ug/l	0.03
34) 1,4-Difluorobenzene	8.24	114	874950	50.00	ug/l	0.03
63) Chlorobenzene-d5	12.38	117	653483	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	14.52	152	206773	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.47	65	250454	58.43	ug/l	0.02
Spiked Amount 50.000			Recovery	=	116.86%	
35) Dibromofluoromethane	6.95	113	406698	67.10	ug/l	0.03
Spiked Amount 50.000			Recovery	=	134.20%	
50) Toluene-d8	10.43	98	921129	60.49	ug/l	0.02
Spiked Amount 50.000			Recovery	=	120.98%	
62) 4-Bromofluorobenzene	13.56	95	260300	48.27	ug/l	0.00
Spiked Amount 50.000			Recovery	=	96.54%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.23	43	148994	116.271	ug/l	98
17) Carbon Disulfide	3.41	76	87689	4.577	ug/l	97
20) Methylene Chloride	3.84	84	58046	7.983	ug/l	99
25) 2-Butanone	6.10	43	51115	34.601	ug/l #	88
31) Cyclohexane	6.98	56	10387	1.287	ug/l	95
40) Benzene	7.48	78	2252824	121.950	ug/l	99
52) Toluene	10.53	92	205864	17.846	ug/l	98
65) Chlorobenzene	12.41	112	293995	22.686	ug/l	99
67) Ethyl Benzene	12.53	91	291712	14.782	ug/l	98
68) m/p-Xylenes	12.67	106	222124	29.196	ug/l	97
69) o-Xylene	13.06	106	99322	13.524	ug/l	95
73) Isopropylbenzene	13.41	105	608751	44.185	ug/l	99
78) n-propylbenzene	13.78	91	43624	2.647	ug/l	84
79) 2-Chlorotoluene	13.84	91	191569	20.327	ug/l	92
80) 1,3,5-Trimethylbenzene	13.94	105	61530	5.627	ug/l	99
83) tert-Butylbenzene	14.20	119	74705	5.666	ug/l	94
84) 1,2,4-Trimethylbenzene	14.25	105	132954	12.047	ug/l	97
85) sec-Butylbenzene	14.38	105	21920	1.539	ug/l	97
86) p-Isopropyltoluene	14.49	119	85327	6.905	ug/l	92
87) 1,3-Dichlorobenzene	14.46	146	9407m	1.367	ug/l	
88) 1,4-Dichlorobenzene	14.54	146	14740	2.123	ug/l	92
95) Naphthalene	16.13	128	35136	7.684	ug/l	94

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

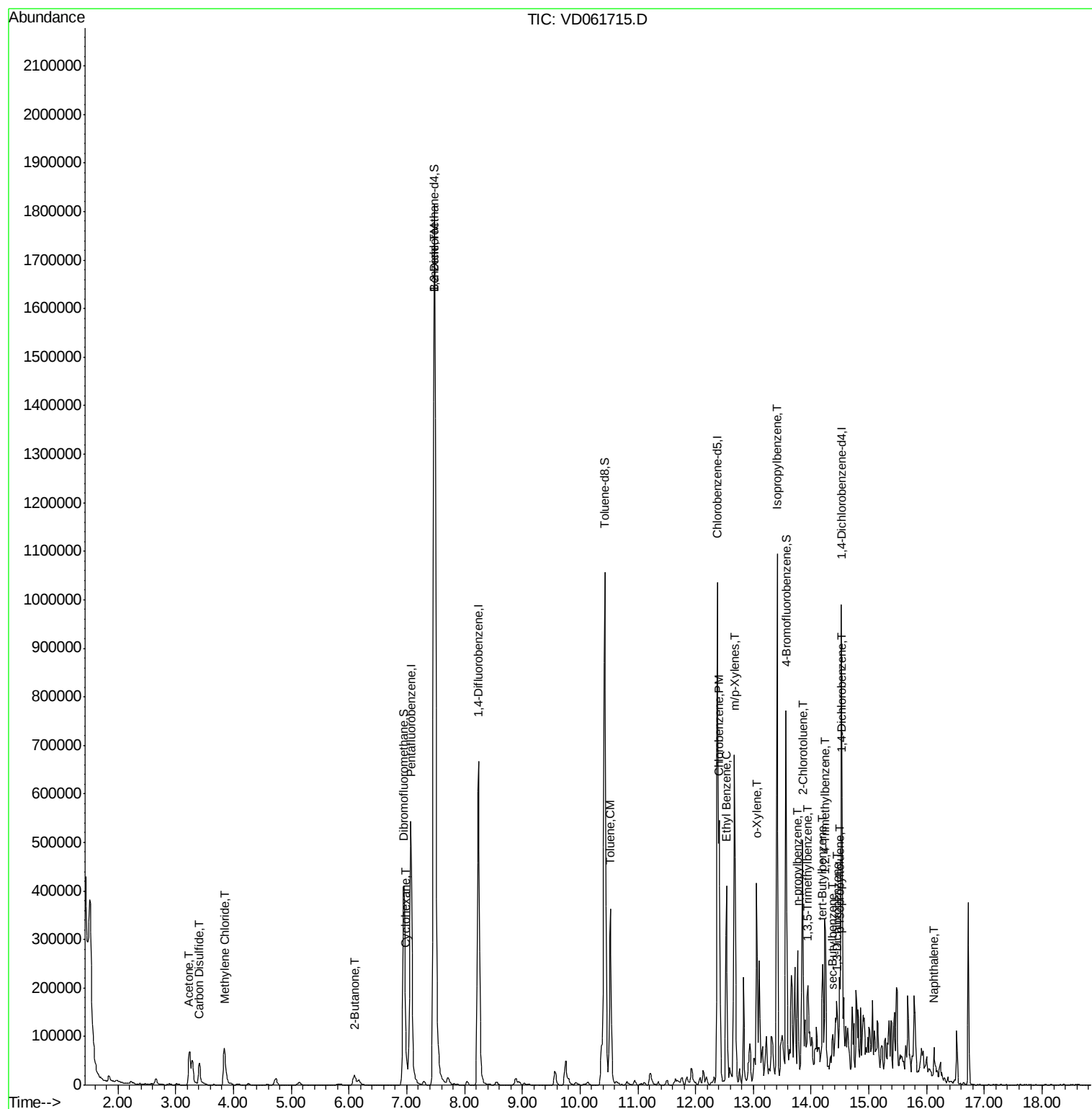
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD041019\
Data File : VD061715.D
Acq On : 10 Apr 2019 16:14
Operator : VA/AP
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ALS Vial : 10 Sample Multiplier: 1

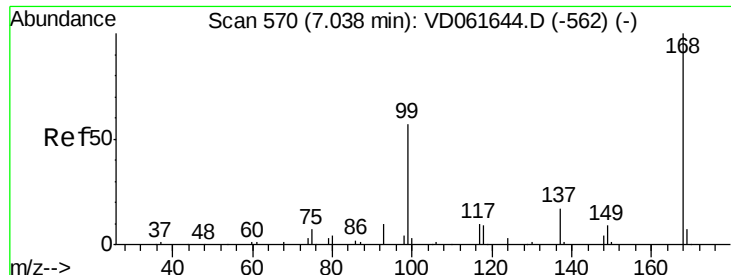
Instrument :
MSVOA_D
ClientSampleId :
20190171-COMP-CS-3

Manual Integrations
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4/11/2019 11:45:46 AM

Quant Time: Apr 11 08:13:54 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D040619S.M
Quant Title : SW846 8260
QLast Update : Mon Apr 08 10:04:03 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.07 min Scan# 574

Delta R.T. 0.03 min

Lab File: VD061715.D

Acq: 10 Apr 2019 16:14

Instrument :

MSVOA_D

ClientSampleId :

20190171-COMP-CS-3

Tgt Ion: 168 Resp: 565530

Ion Ratio Lower Upper

168 100

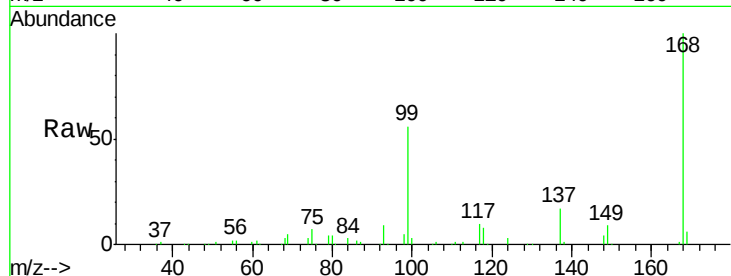
99 55.6 46.8 70.2

Manual Integrations

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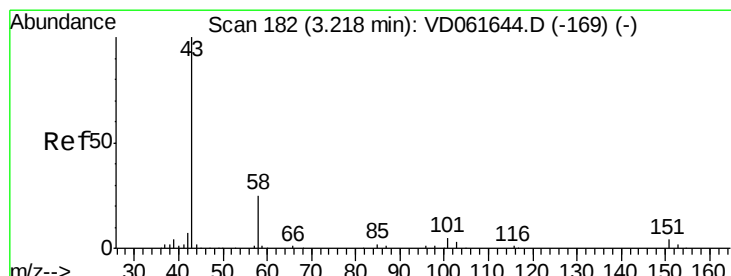
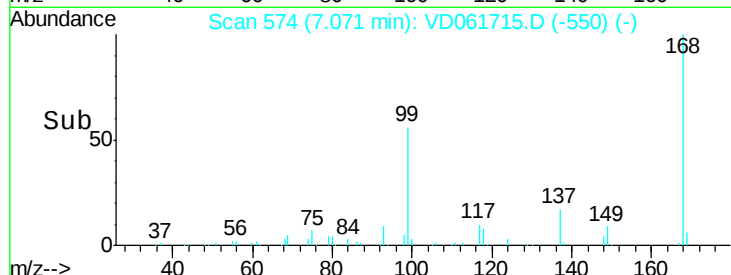
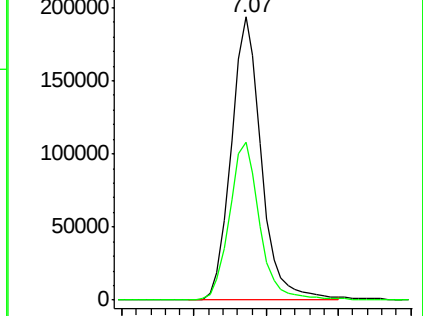
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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#16

Acetone

Concen: 116.271 ug/l

RT: 3.23 min Scan# 184

Delta R.T. 0.01 min

Lab File: VD061715.D

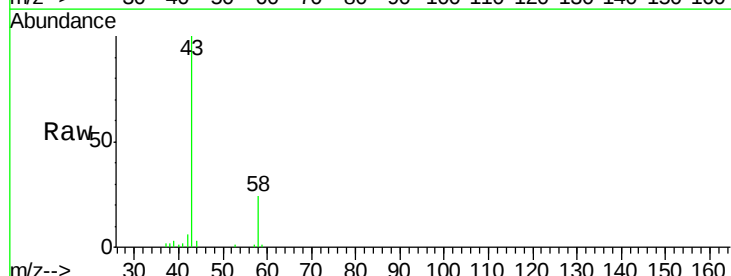
Acq: 10 Apr 2019 16:14

Tgt Ion: 43 Resp: 148994

Ion Ratio Lower Upper

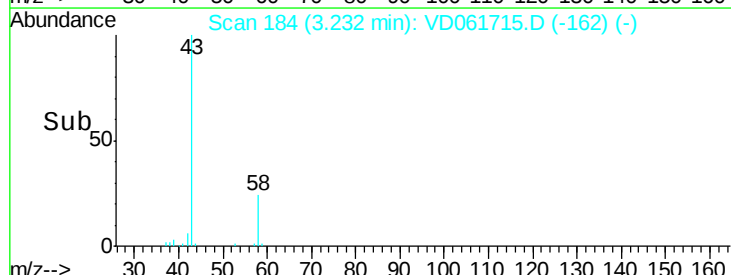
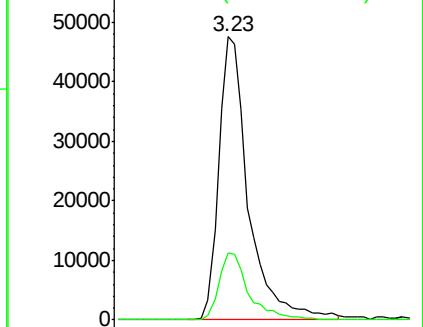
43 100

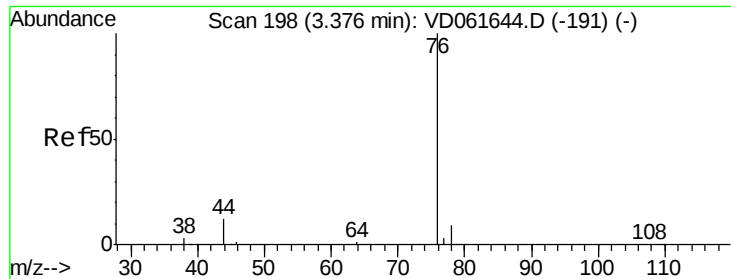
58 23.6 19.7 29.5



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC





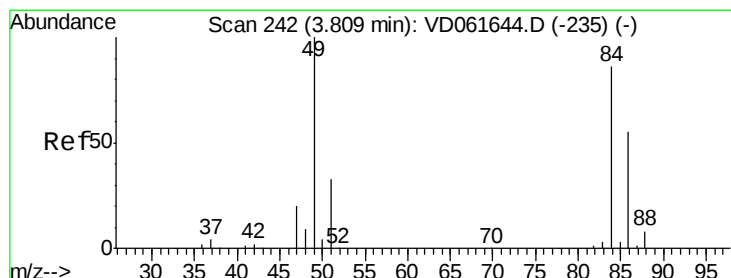
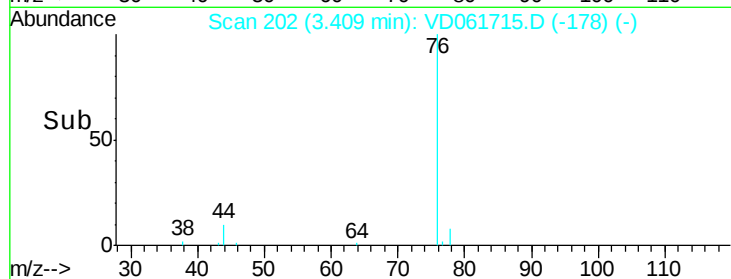
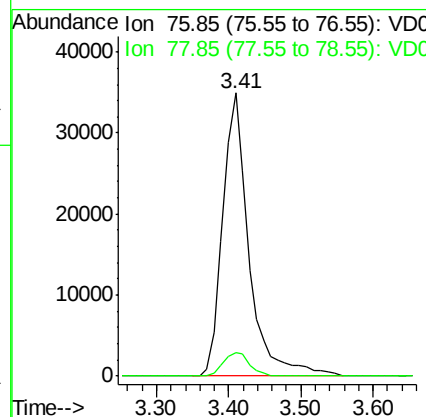
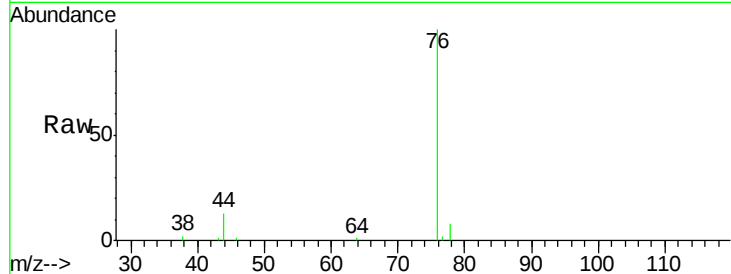
#17
Carbon Disulfide
Concen: 4.577 ug/l
RT: 3.41 min Scan# 202
Delta R.T. 0.03 min
Lab File: VD061715.D
Acq: 10 Apr 2019 16:14

Instrument :
MSVOA_D
ClientSampleId :
20190171-COMP-CS-3

Tgt Ion: 76 Resp: 87689
Ion Ratio Lower Upper
76 100
78 8.4 7.4 11.2

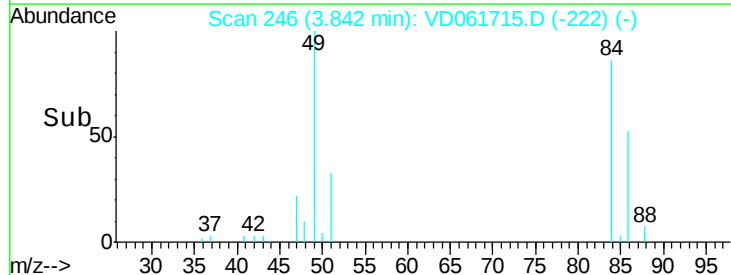
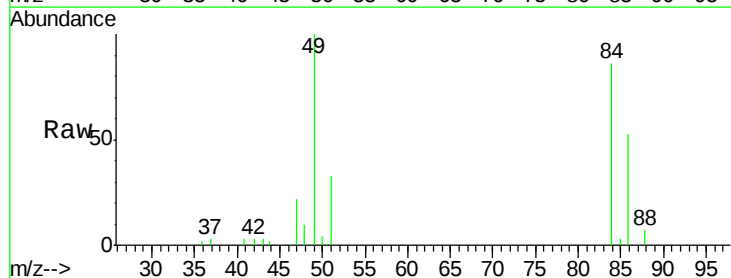
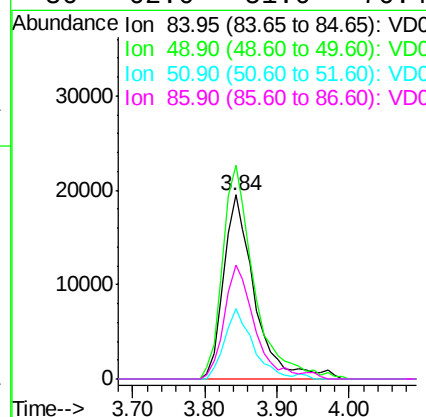
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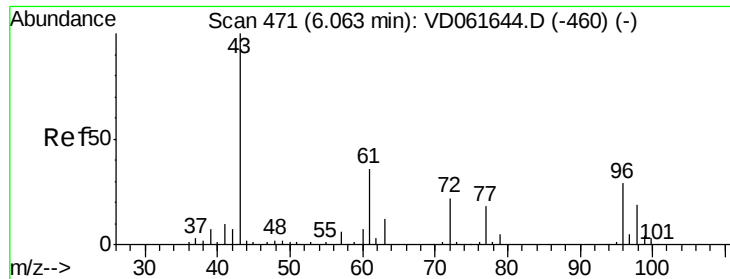
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#20
Methylene Chloride
Concen: 7.983 ug/l
RT: 3.84 min Scan# 246
Delta R.T. 0.03 min
Lab File: VD061715.D
Acq: 10 Apr 2019 16:14

Tgt Ion: 84 Resp: 58046
Ion Ratio Lower Upper
84 100
49 116.0 93.0 139.4
51 38.1 30.4 45.6
86 62.0 51.0 76.4





#25

2-Butanone

Concen: 34.601 ug/l

RT: 6.10 min Scan# 475

Delta R.T. 0.03 min

Lab File: VD061715.D

Acq: 10 Apr 2019 16:14

Instrument :

MSVOA_D

ClientSampleId :

20190171-COMP-CS-3

Tgt Ion: 43 Resp: 51115

Ion Ratio Lower Upper

43 100

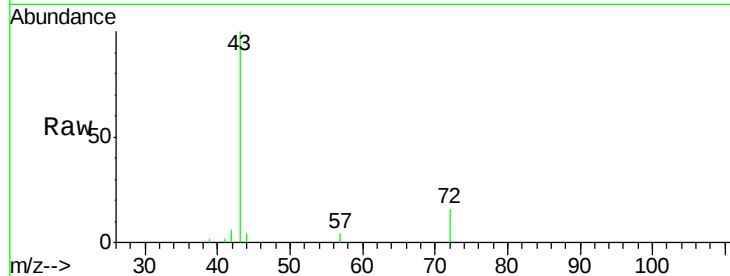
72 16.2 17.4 26.2#

Manual Integrations

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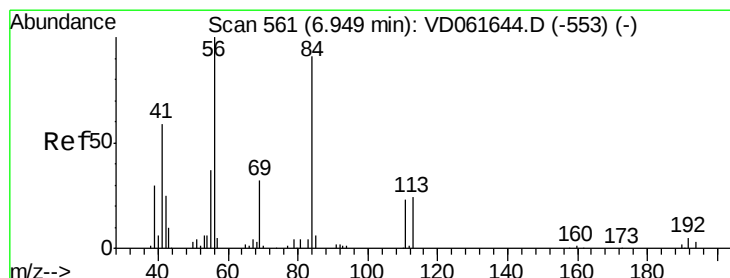
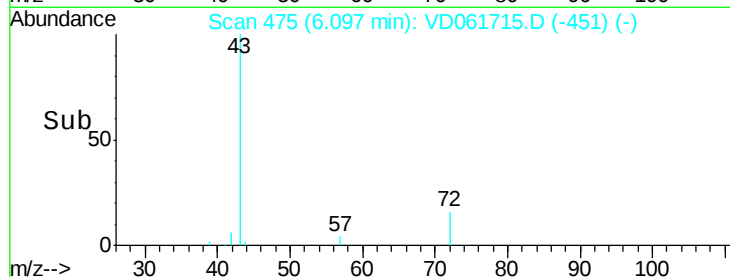
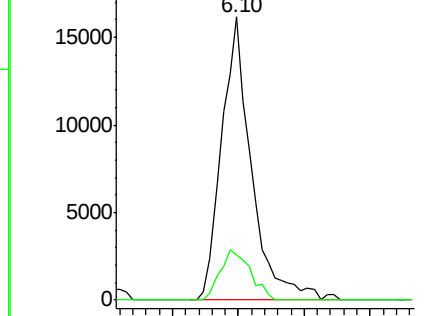
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Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#31

Cyclohexane

Concen: 1.287 ug/l

RT: 6.98 min Scan# 565

Delta R.T. 0.03 min

Lab File: VD061715.D

Acq: 10 Apr 2019 16:14

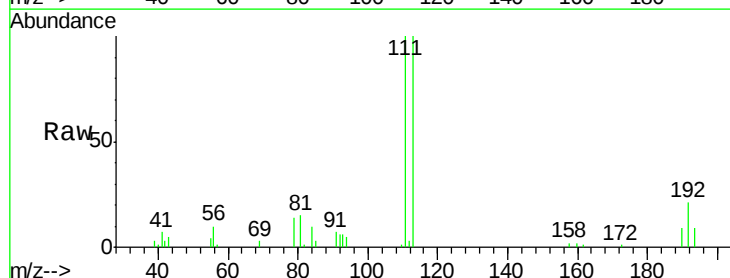
Tgt Ion: 56 Resp: 10387

Ion Ratio Lower Upper

56 100

69 30.9 25.8 38.6

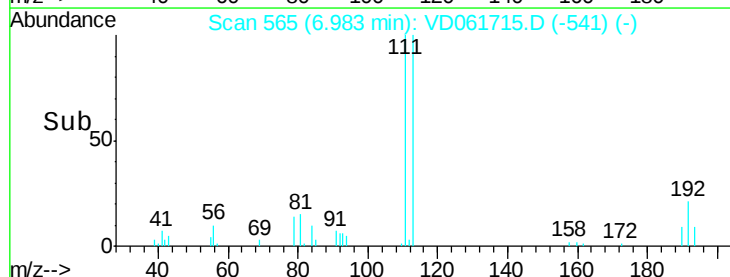
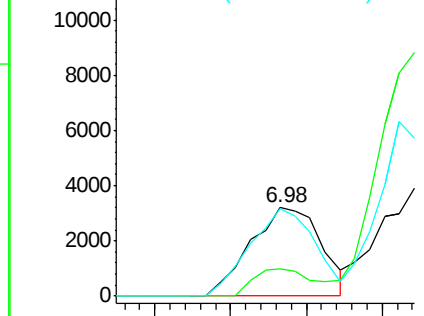
84 98.5 74.2 111.2

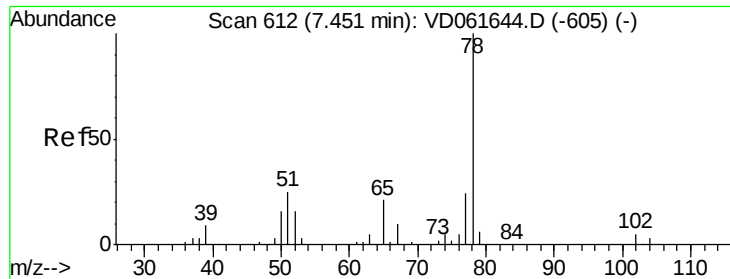


Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 84.05 (83.75 to 84.75): VDC





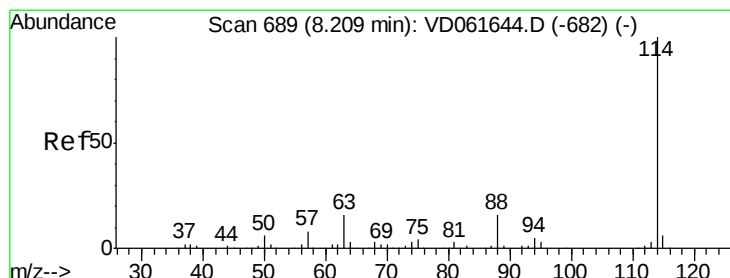
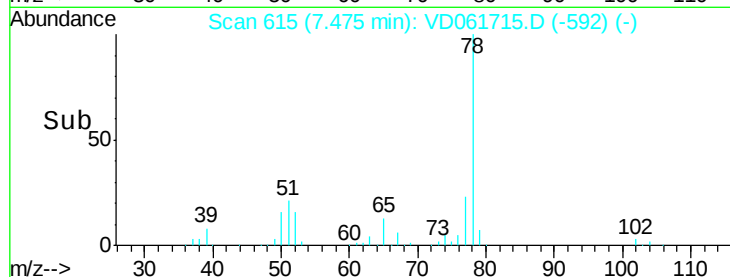
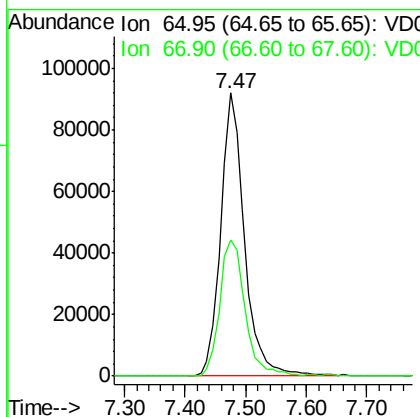
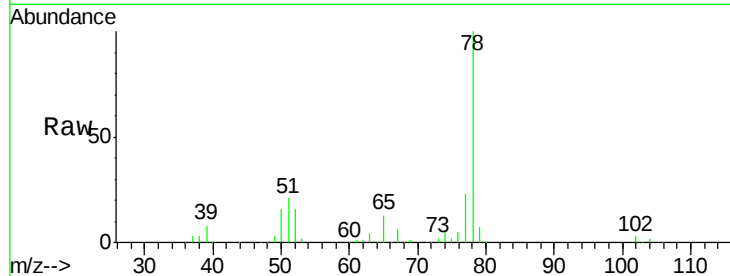
#33
 1,2-Dichloroethane-d4
 Concen: 58.426 ug/l
 RT: 7.47 min Scan# 615
 Delta R.T. 0.02 min
 Lab File: VD061715.D
 Acq: 10 Apr 2019 16:14

Instrument :
 MSVOA_D
 ClientSampleId :
 20190171-COMP-CS-3

Tgt Ion	Ratio	Resp	Lower	Upper
65	100	250454		
67	47.9	0.0	99.4	

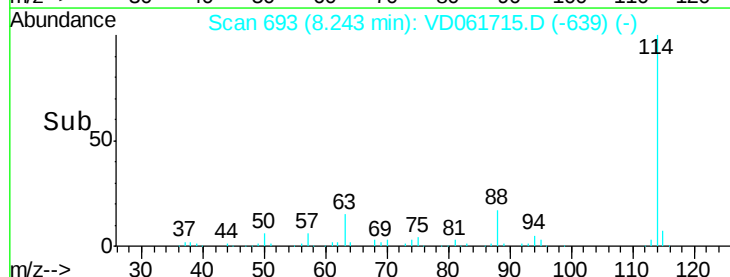
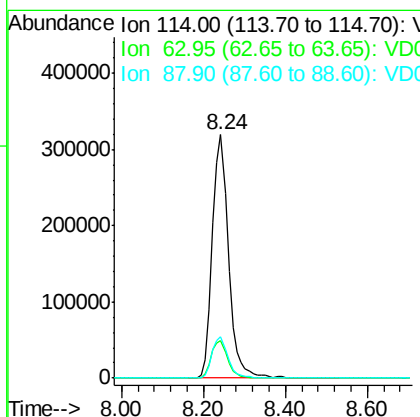
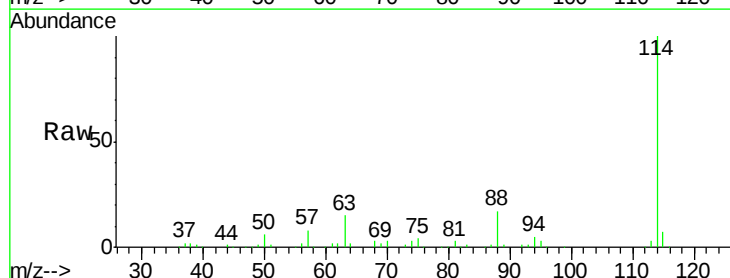
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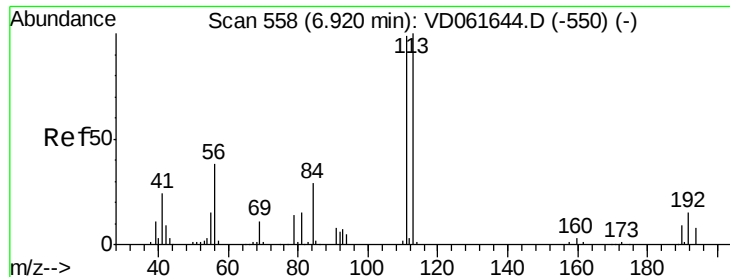
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.24 min Scan# 693
 Delta R.T. 0.03 min
 Lab File: VD061715.D
 Acq: 10 Apr 2019 16:14

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	874950		
63	15.4	0.0	31.2	
88	17.1	0.0	31.8	





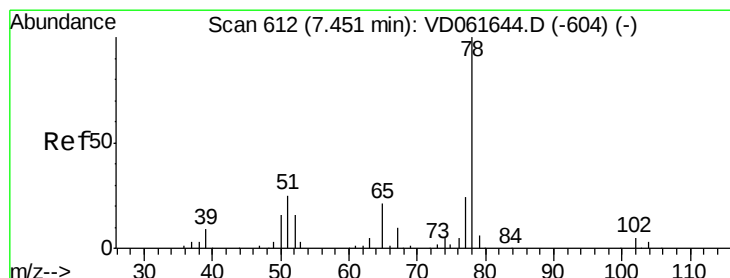
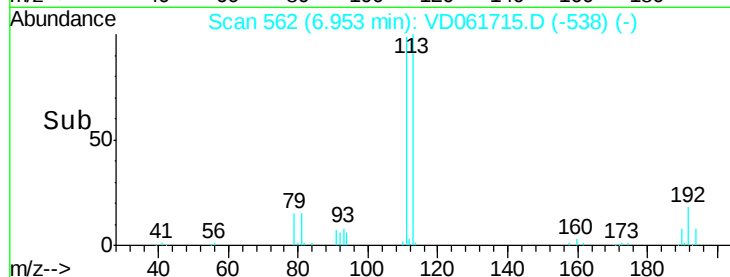
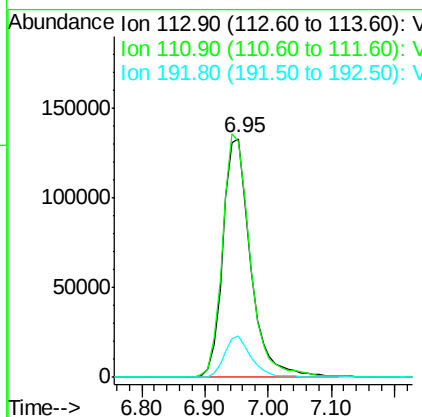
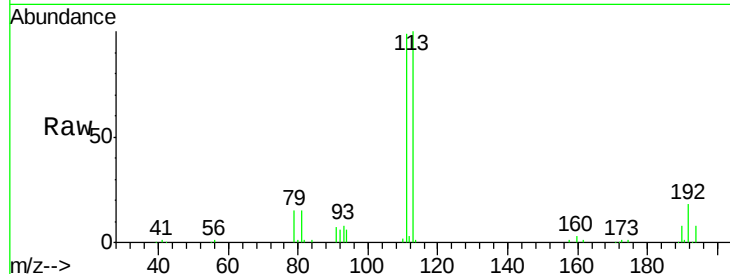
#35
 Dibromofluoromethane
 Concen: 67.096 ug/l
 RT: 6.95 min Scan# 562
 Delta R.T. 0.03 min
 Lab File: VD061715.D
 Acq: 10 Apr 2019 16:14

Instrument :
 MSVOA_D
 ClientSampleId :
 20190171-COMP-CS-3

Tgt Ion	Ratio	Resp	Lower	Upper
113	100	406698		
111	99.0	79.3	118.9	
192	17.5	12.3	18.5	

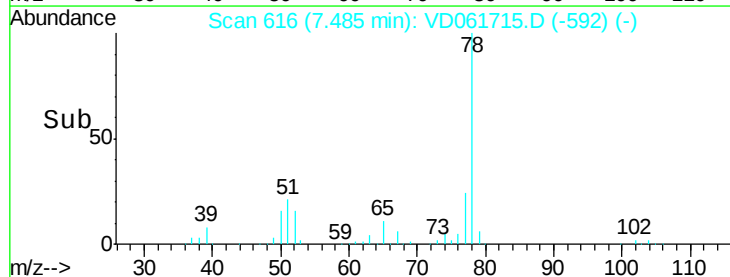
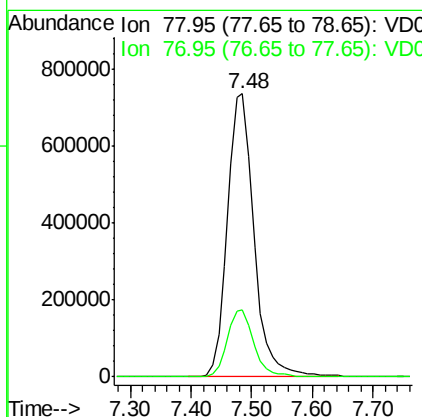
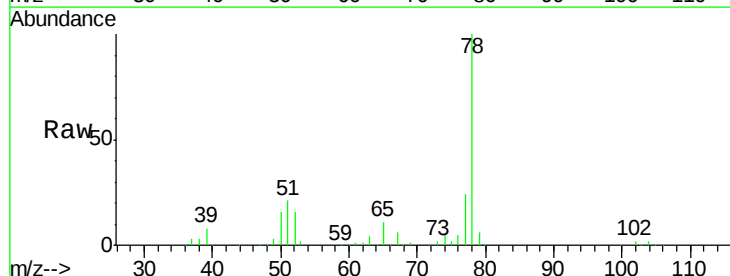
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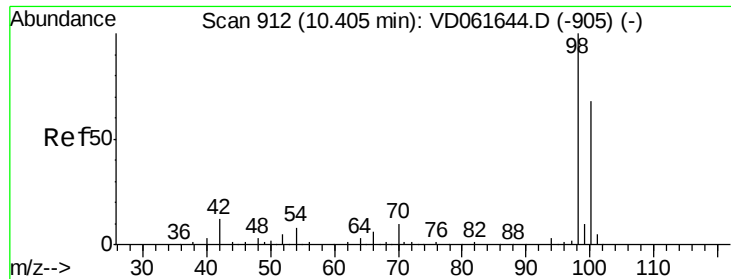
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#40
 Benzene
 Concen: 121.950 ug/l
 RT: 7.48 min Scan# 616
 Delta R.T. 0.03 min
 Lab File: VD061715.D
 Acq: 10 Apr 2019 16:14

Tgt Ion	Ratio	Resp	Lower	Upper
78	100	2252824		
77	23.8	19.5	29.3	





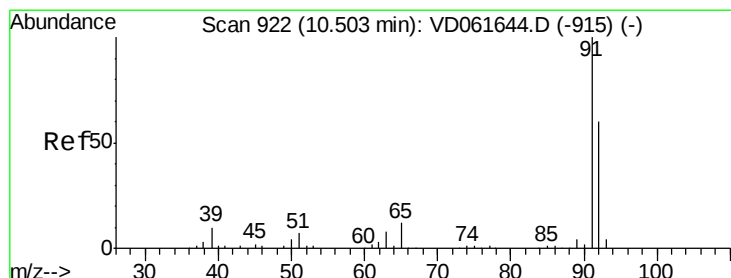
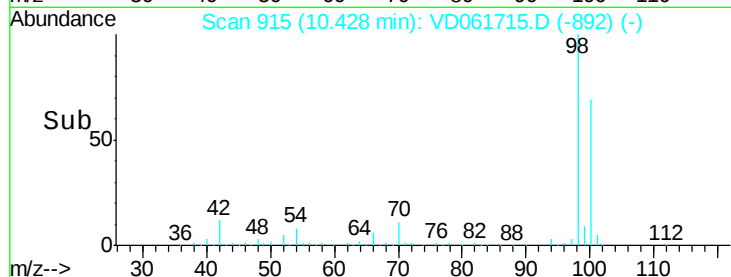
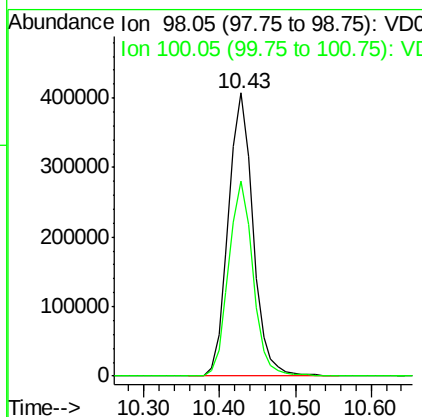
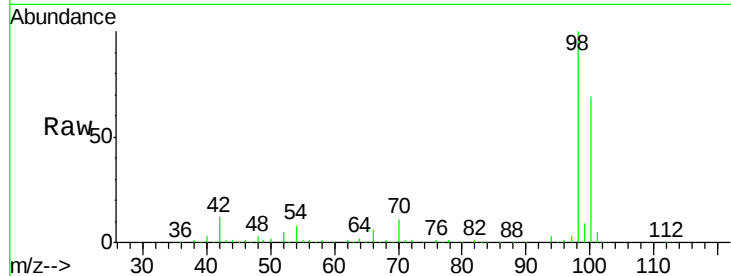
#50
Toluene-d8
Concen: 60.486 ug/l
RT: 10.43 min Scan# 915
Delta R.T. 0.02 min
Lab File: VD061715.D
Acq: 10 Apr 2019 16:14

Instrument :
MSVOA_D
ClientSampleId :
20190171-COMP-CS-3

Tgt Ion: 98 Resp: 921129
Ion Ratio Lower Upper
98 100
100 69.0 55.4 83.0

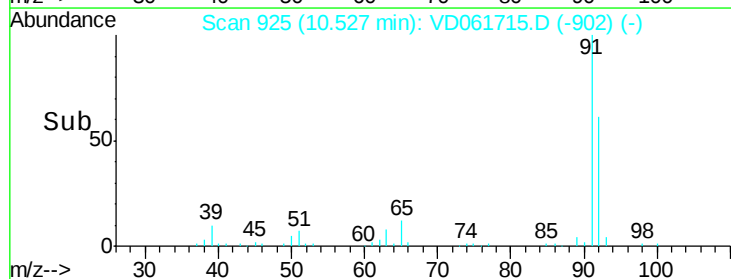
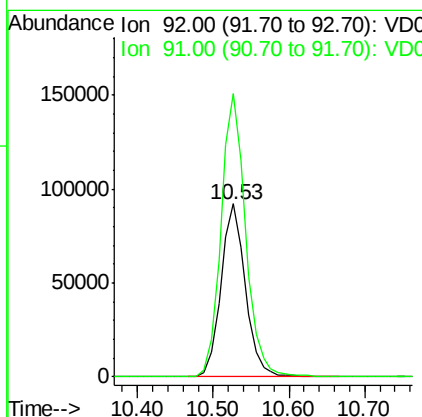
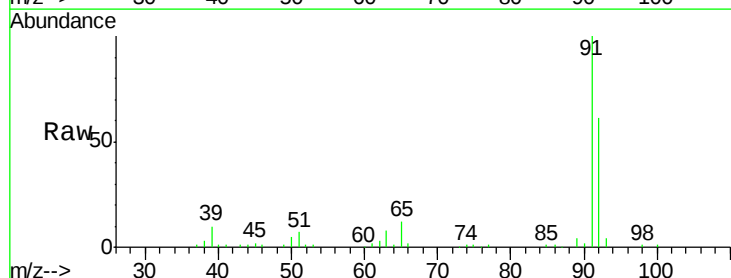
Manual Integrations
APPROVED

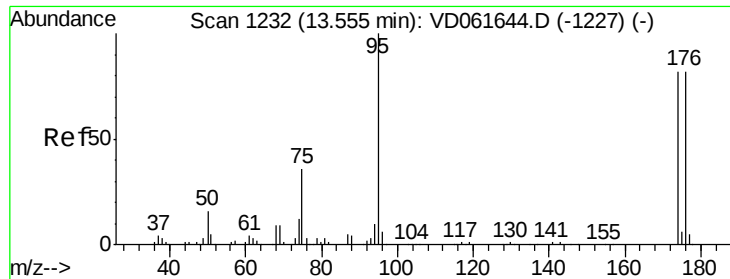
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4/11/2019 11:45:46 AM



#52
Toluene
Concen: 17.846 ug/l
RT: 10.53 min Scan# 925
Delta R.T. 0.02 min
Lab File: VD061715.D
Acq: 10 Apr 2019 16:14

Tgt Ion: 92 Resp: 205864
Ion Ratio Lower Upper
92 100
91 163.9 133.0 199.4





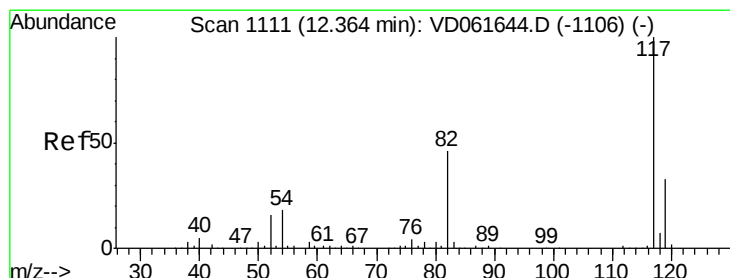
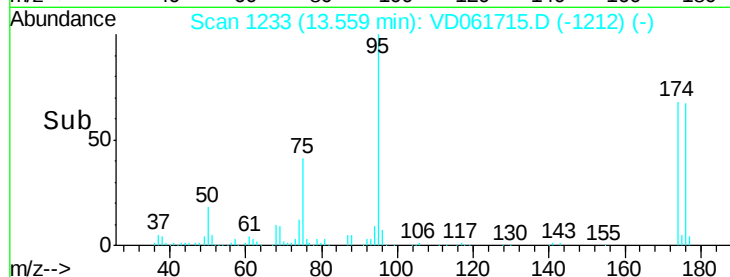
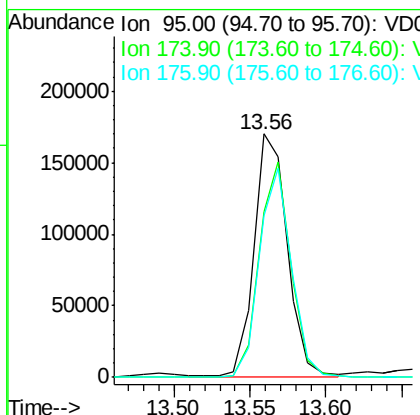
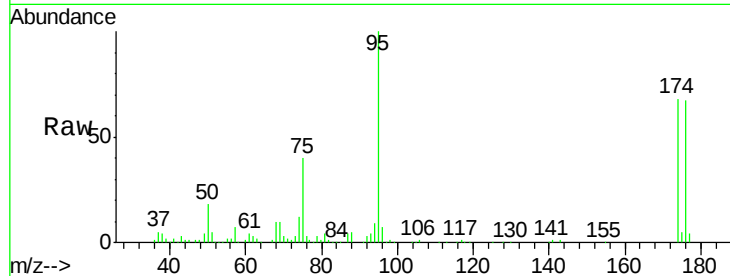
#62
4-Bromofluorobenzene
Concen: 48.275 ug/l
RT: 13.56 min Scan# 1233
Delta R.T. 0.00 min
Lab File: VD061715.D
Acq: 10 Apr 2019 16:14

Instrument :
MSVOA_D
ClientSampleId :
20190171-COMP-CS-3

Tgt Ion	Ratio	Resp	Lower	Upper
95	100	260300		
174	68.2	0.0	164.6	
176	66.6	0.0	165.0	

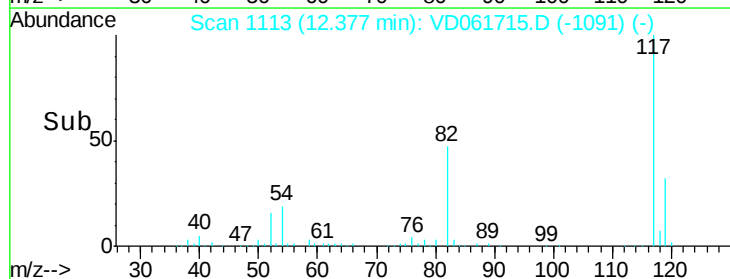
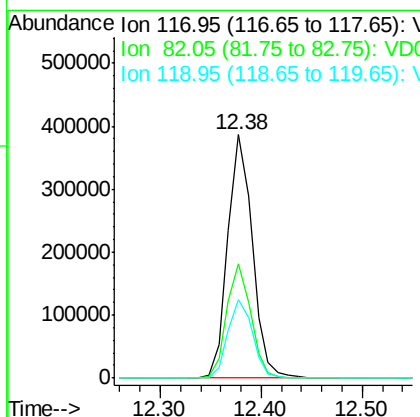
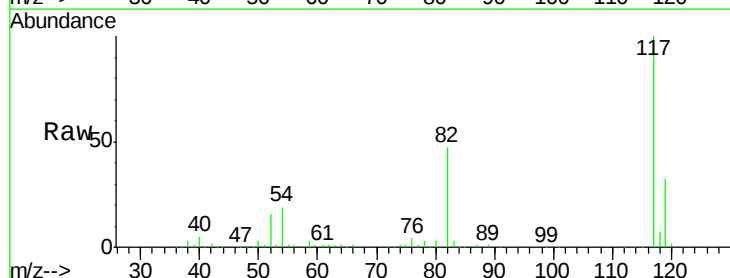
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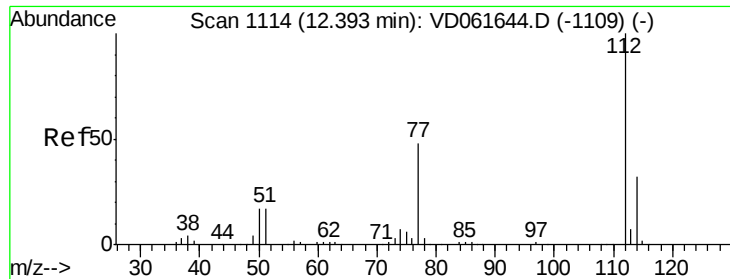
MMDadoda
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#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.38 min Scan# 1113
Delta R.T. 0.01 min
Lab File: VD061715.D
Acq: 10 Apr 2019 16:14

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	653483		
82	47.0	36.8	55.2	
119	32.0	26.1	39.1	





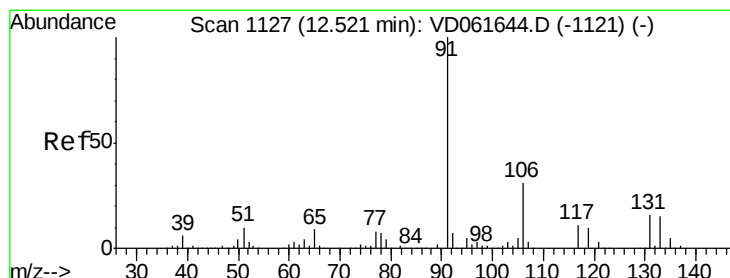
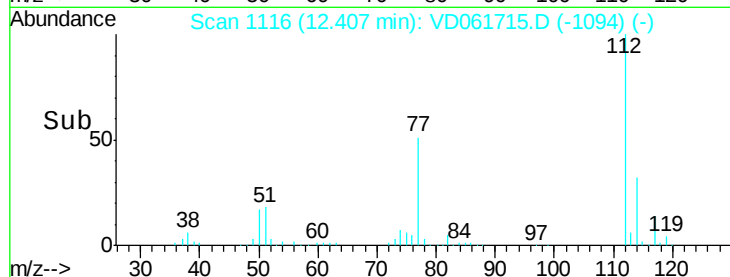
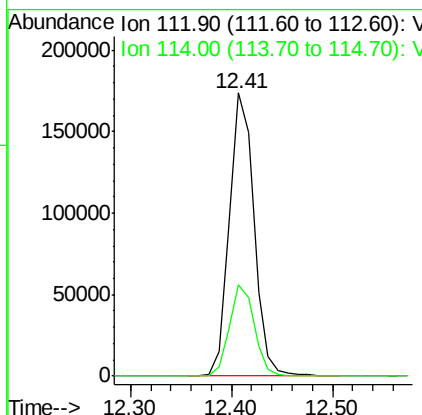
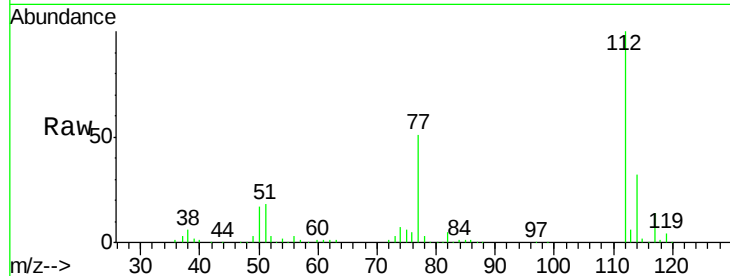
#65
Chlorobenzene
Concen: 22.686 ug/l
RT: 12.41 min Scan# 1116
Delta R.T. 0.01 min
Lab File: VD061715.D
Acq: 10 Apr 2019 16:14

Instrument :
MSVOA_D
ClientSampleId :
20190171-COMP-CS-3

Tgt Ion: 112 Resp: 293995
Ion Ratio Lower Upper
112 100
114 32.5 25.6 38.4

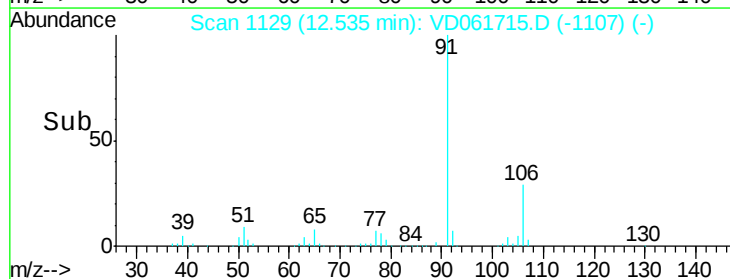
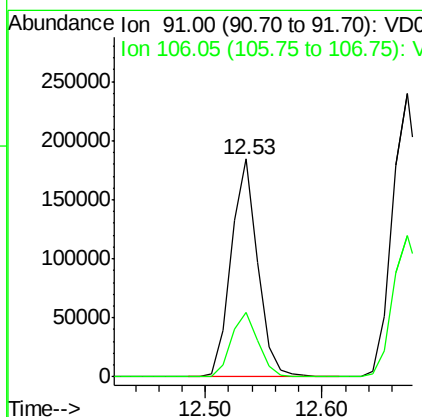
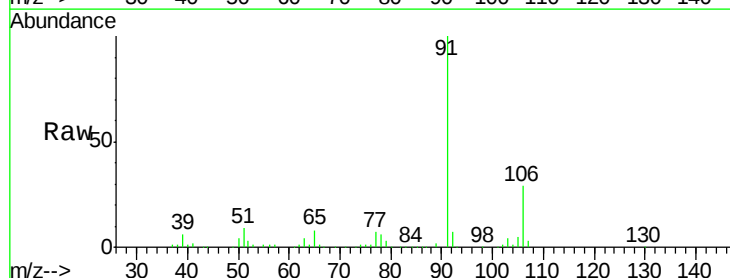
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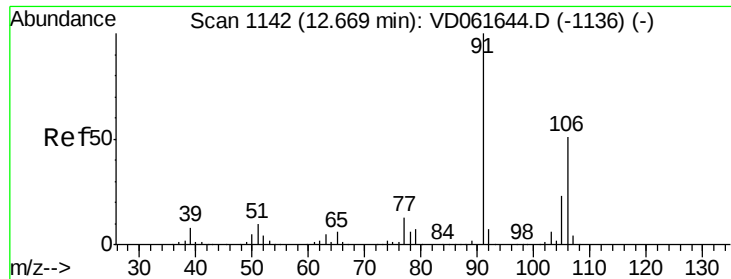
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#67
Ethyl Benzene
Concen: 14.782 ug/l
RT: 12.53 min Scan# 1129
Delta R.T. 0.01 min
Lab File: VD061715.D
Acq: 10 Apr 2019 16:14

Tgt Ion: 91 Resp: 291712
Ion Ratio Lower Upper
91 100
106 29.4 24.6 37.0





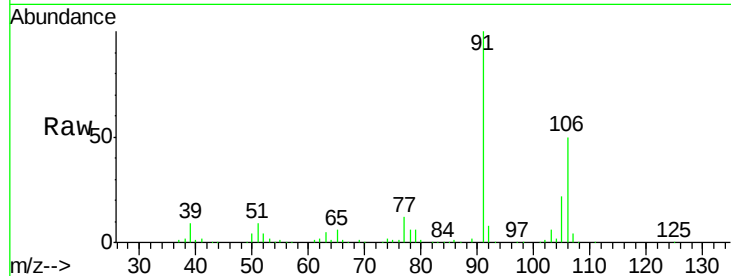
#68
m/p-Xylenes
Concen: 29.196 ug/l
RT: 12.67 min Scan# 1143
Delta R.T. 0.00 min
Lab File: VD061715.D
Acq: 10 Apr 2019 16:14

Instrument :
MSVOA_D
ClientSampleId :
20190171-COMP-CS-3

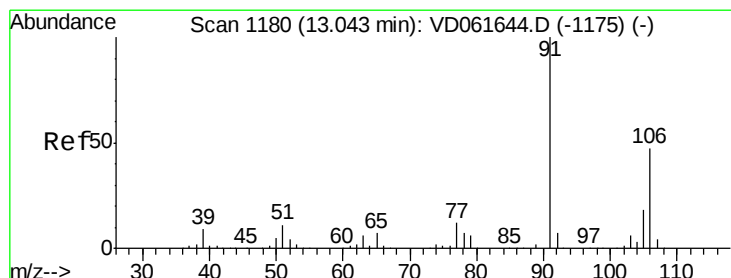
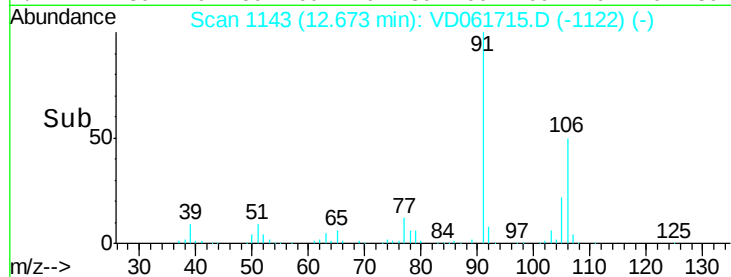
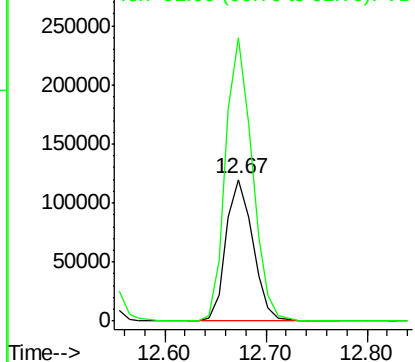
Tgt Ion:106 Resp: 222124
Ion Ratio Lower Upper
106 100
91 199.7 156.7 235.1

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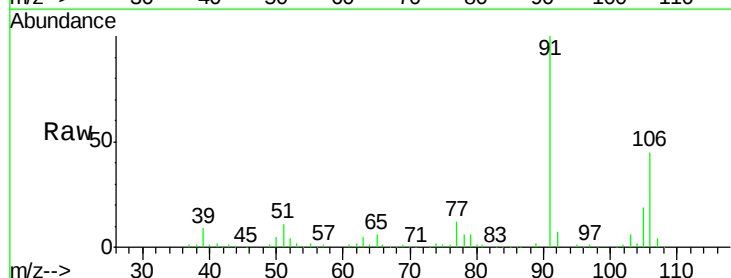


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): VDC

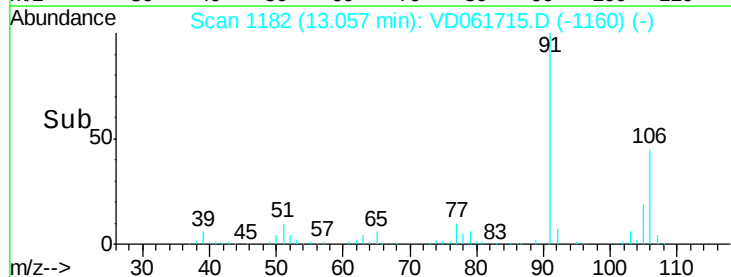
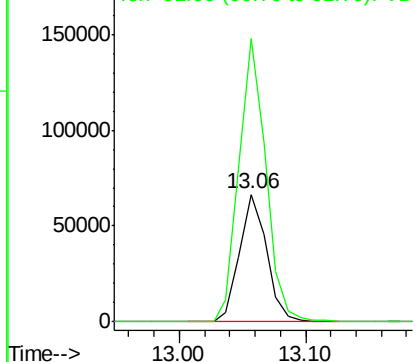


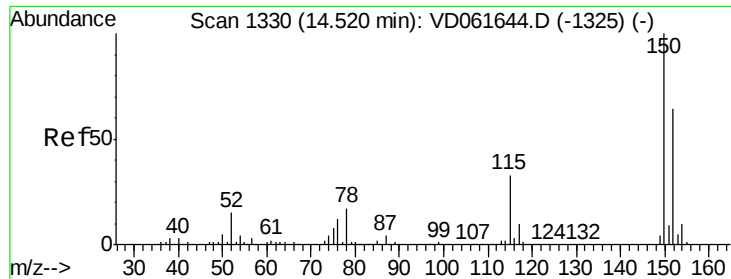
#69
o-Xylene
Concen: 13.524 ug/l
RT: 13.06 min Scan# 1182
Delta R.T. 0.01 min
Lab File: VD061715.D
Acq: 10 Apr 2019 16:14

Tgt Ion:106 Resp: 99322
Ion Ratio Lower Upper
106 100
91 221.7 107.3 321.9



Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): VDC





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.52 min Scan# 1331

Delta R.T. 0.00 min

Lab File: VD061715.D

Acq: 10 Apr 2019 16:14

Instrument :

MSVOA_D

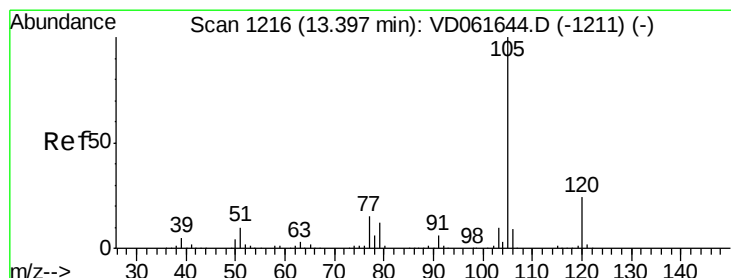
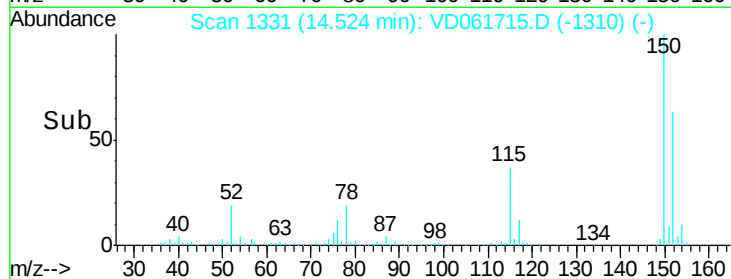
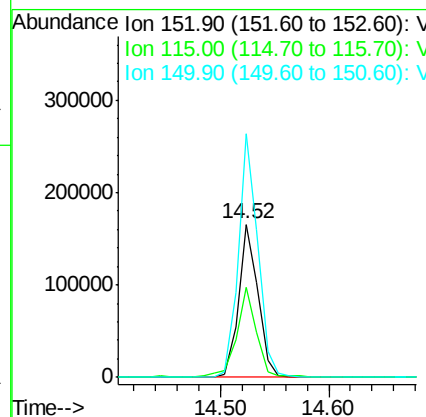
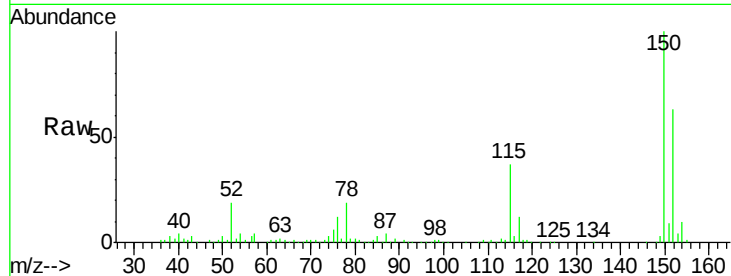
ClientSampleId :

20190171-COMP-CS-3

Tgt Ion	Ratio	Lower	Upper
152	100		
115	58.8	26.4	79.2
150	159.1	0.0	320.6

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#73

Isopropylbenzene

Concen: 44.185 ug/l

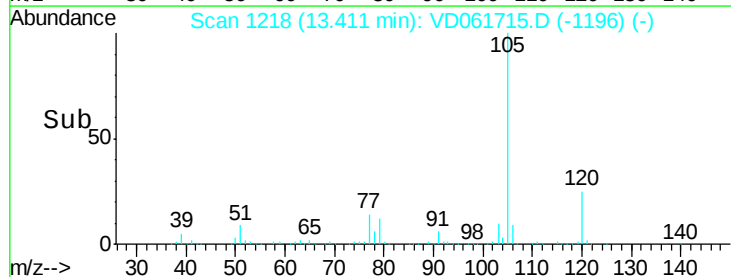
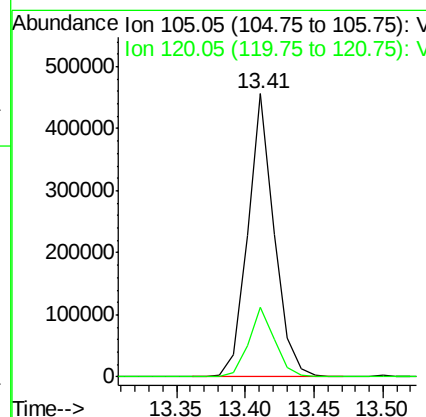
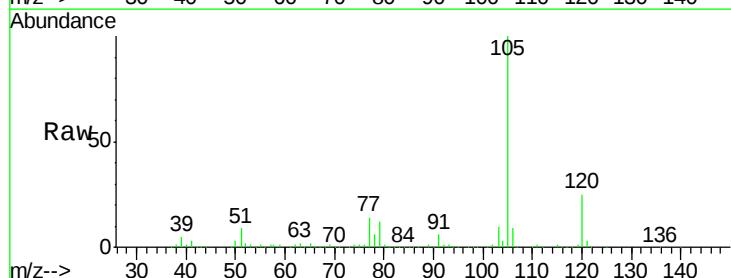
RT: 13.41 min Scan# 1218

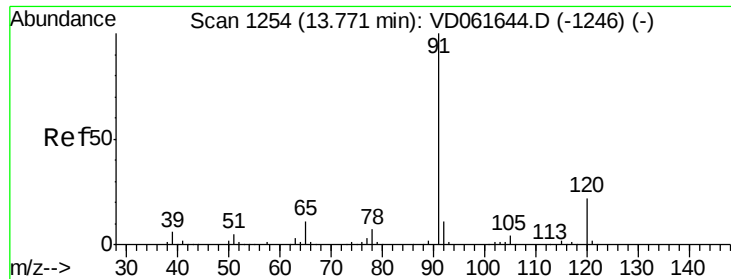
Delta R.T. 0.01 min

Lab File: VD061715.D

Acq: 10 Apr 2019 16:14

Tgt Ion	Ratio	Lower	Upper
105	100		
120	24.7	12.2	36.4





#78

n-propylbenzene

Concen: 2.647 ug/l

RT: 13.78 min Scan# 1255

Delta R.T. 0.00 min

Lab File: VD061715.D

Acq: 10 Apr 2019 16:14

Instrument :

MSVOA_D

ClientSampleId :

20190171-COMP-CS-3

Tgt Ion: 91 Resp: 43624

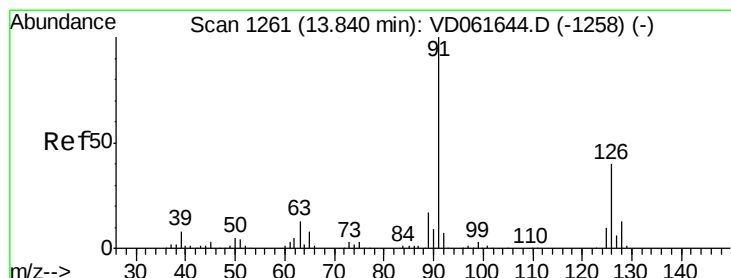
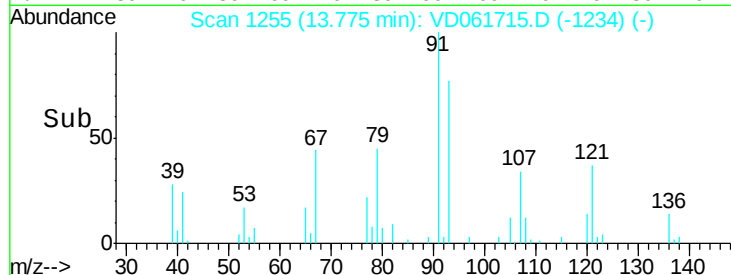
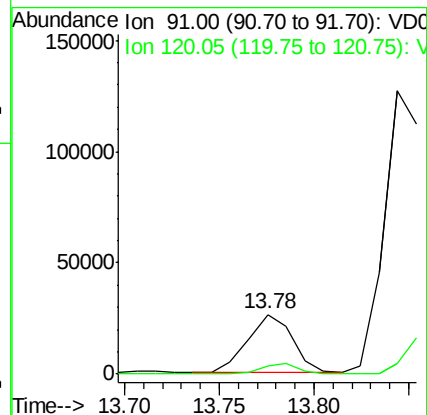
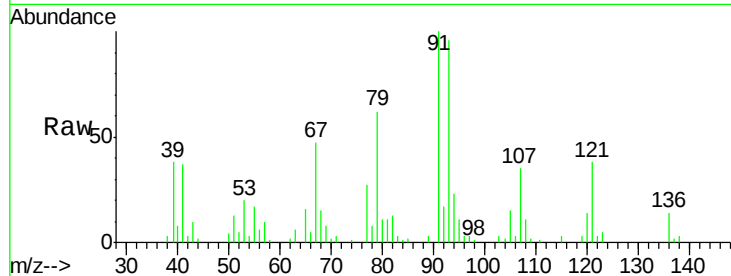
Ion Ratio Lower Upper

91 100

120 14.0 10.8 32.4

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#79

2-Chlorotoluene

Concen: 20.327 ug/l

RT: 13.84 min Scan# 1262

Delta R.T. 0.00 min

Lab File: VD061715.D

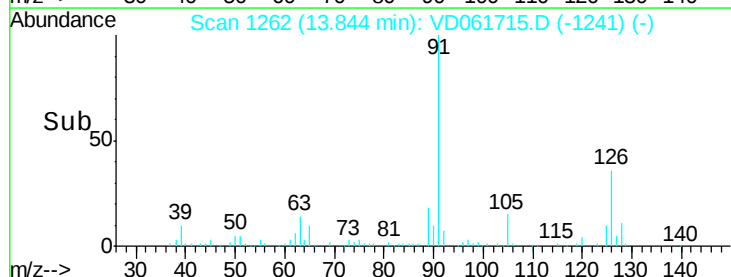
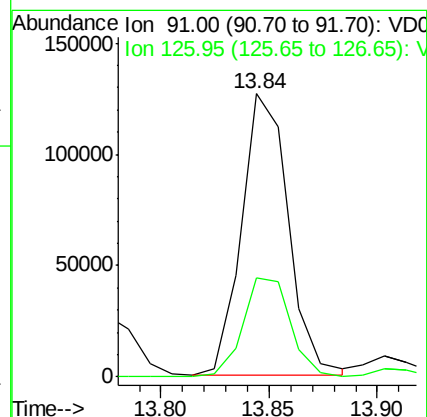
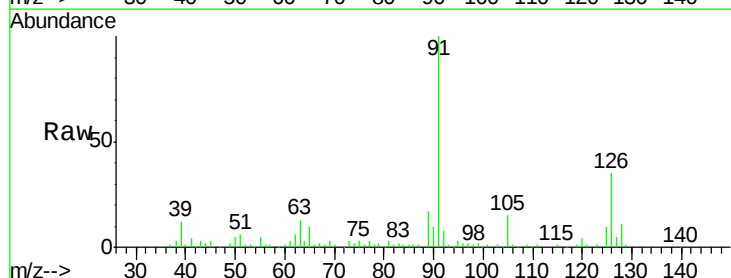
Acq: 10 Apr 2019 16:14

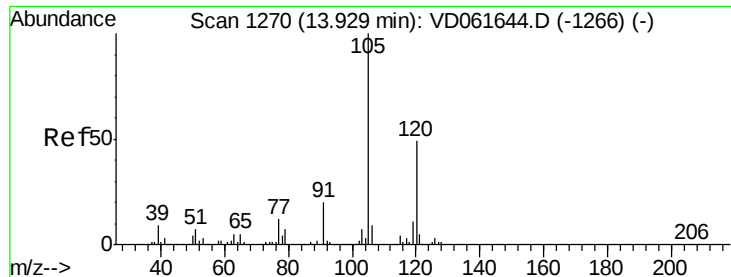
Tgt Ion: 91 Resp: 191569

Ion Ratio Lower Upper

91 100

126 34.9 20.0 59.9





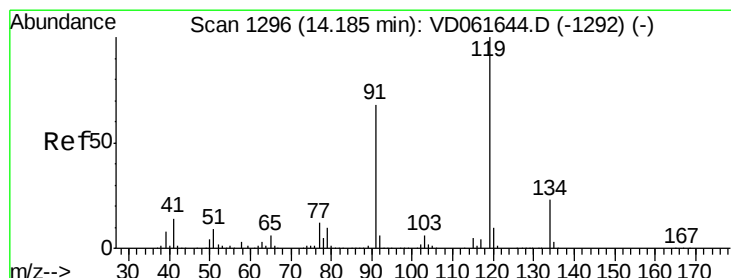
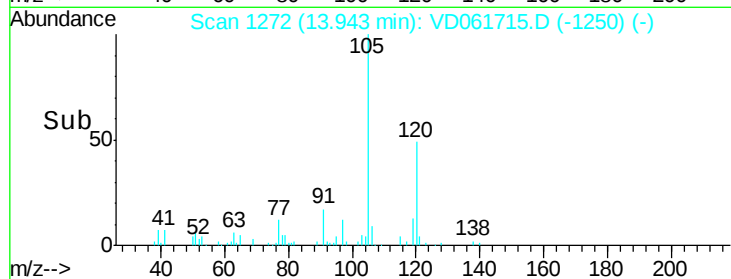
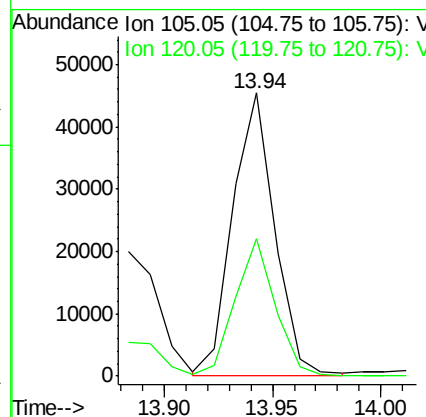
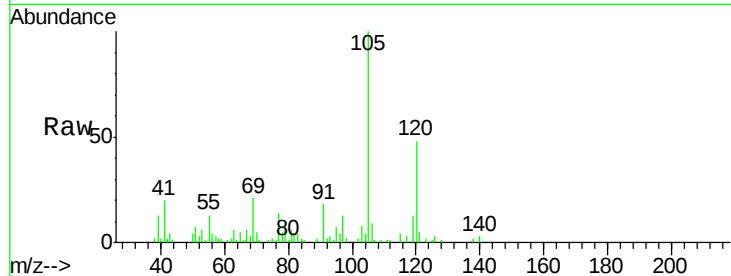
#80
1,3,5-Trimethylbenzene
Concen: 5.627 ug/l
RT: 13.94 min Scan# 1272
Delta R.T. 0.01 min
Lab File: VD061715.D
Acq: 10 Apr 2019 16:14

Instrument :
MSVOA_D
ClientSampleId :
20190171-COMP-CS-3

Tgt Ion	Ratio	Lower	Upper
105	100		
120	48.3	24.4	73.2

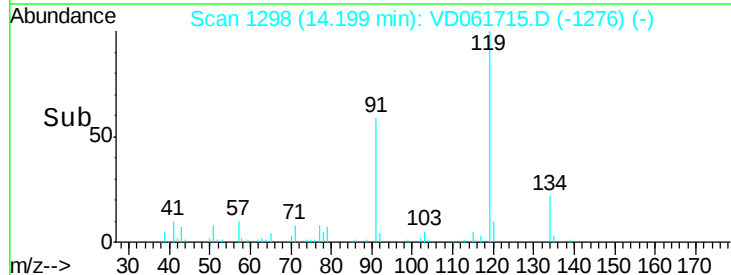
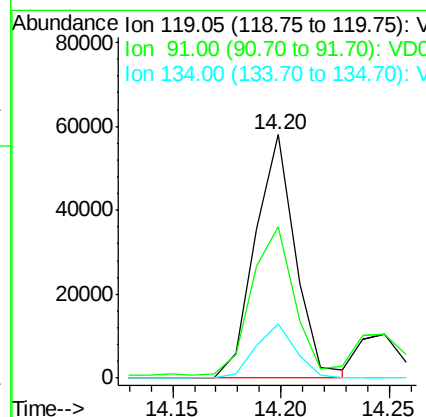
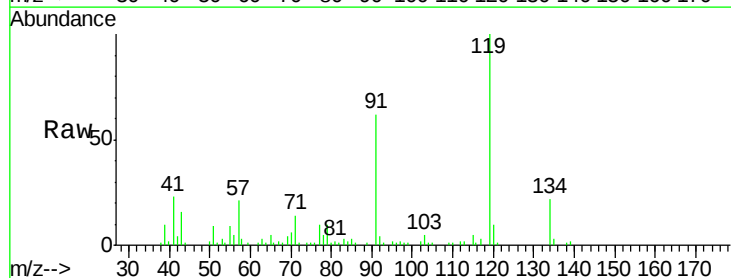
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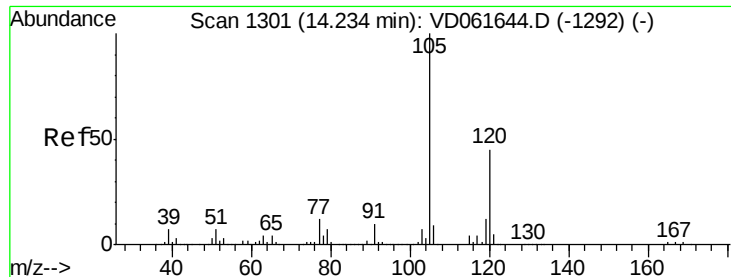
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#83
tert-Butylbenzene
Concen: 5.666 ug/l
RT: 14.20 min Scan# 1298
Delta R.T. 0.01 min
Lab File: VD061715.D
Acq: 10 Apr 2019 16:14

Tgt Ion	Ratio	Lower	Upper
119	100		
91	62.0	33.9	101.6
134	22.5	11.6	34.8





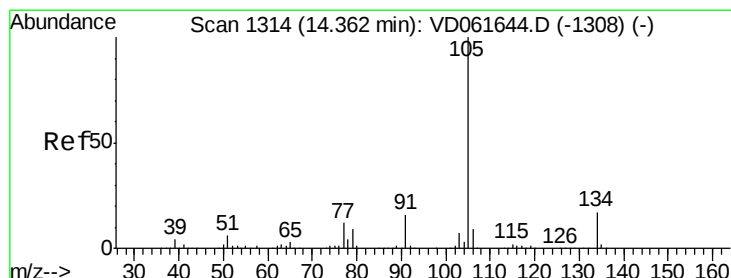
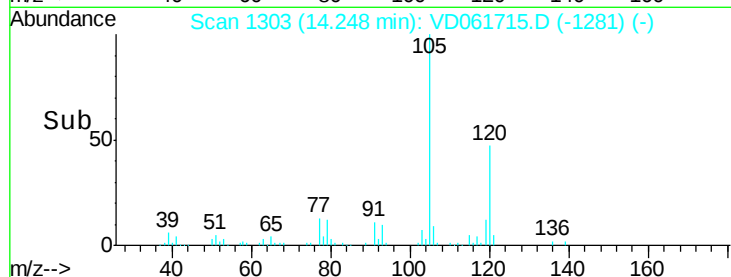
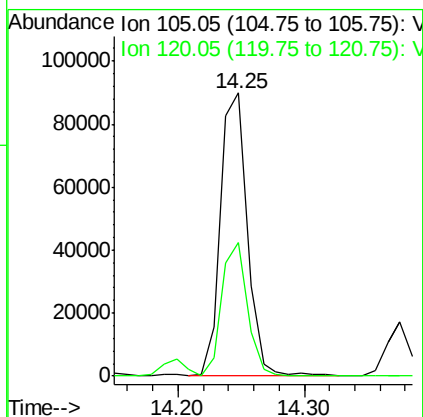
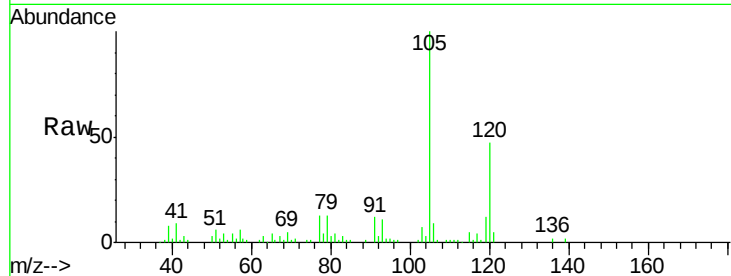
#84
 1,2,4-Trimethylbenzene
 Concen: 12.047 ug/l
 RT: 14.25 min Scan# 1303
 Delta R.T. 0.01 min
 Lab File: VD061715.D
 Acq: 10 Apr 2019 16:14

Instrument :
 MSVOA_D
 ClientSampleId :
 20190171-COMP-CS-3

Tgt Ion:105 Resp: 132954
 Ion Ratio Lower Upper
 105 100
 120 47.2 22.6 67.8

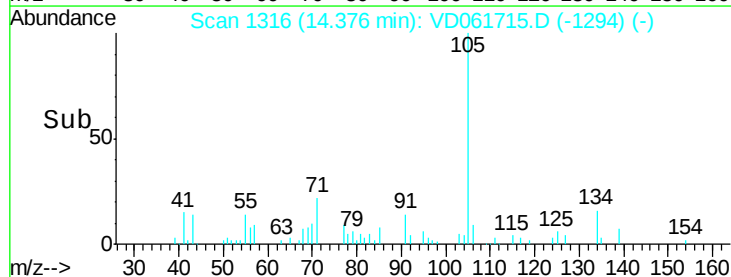
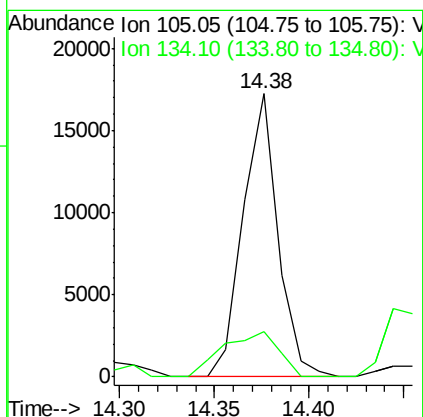
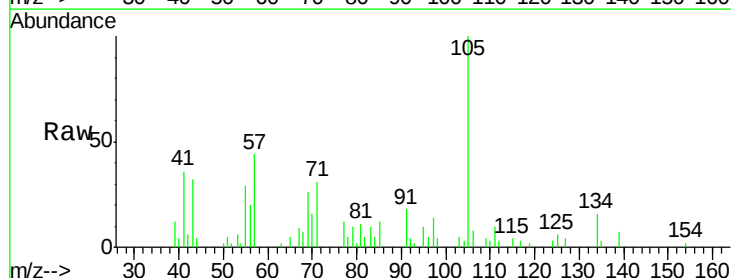
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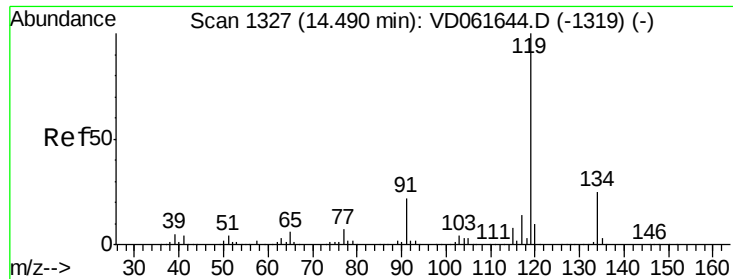
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#85
 sec-Butylbenzene
 Concen: 1.539 ug/l
 RT: 14.38 min Scan# 1316
 Delta R.T. 0.01 min
 Lab File: VD061715.D
 Acq: 10 Apr 2019 16:14

Tgt Ion:105 Resp: 21920
 Ion Ratio Lower Upper
 105 100
 134 16.0 8.6 25.7





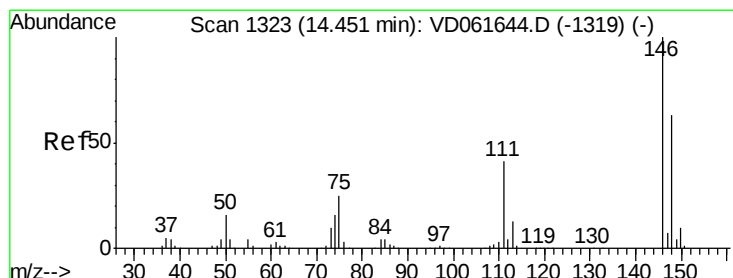
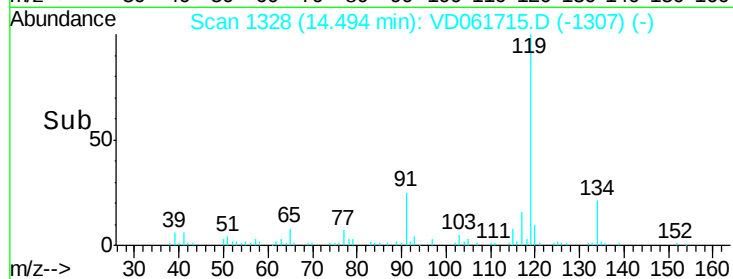
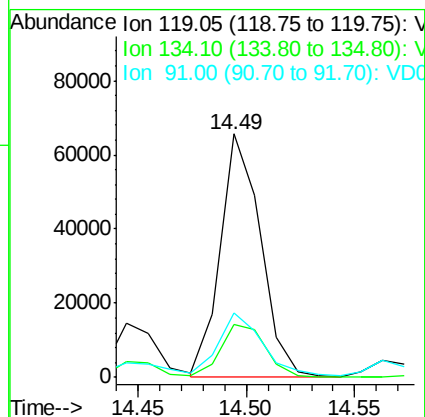
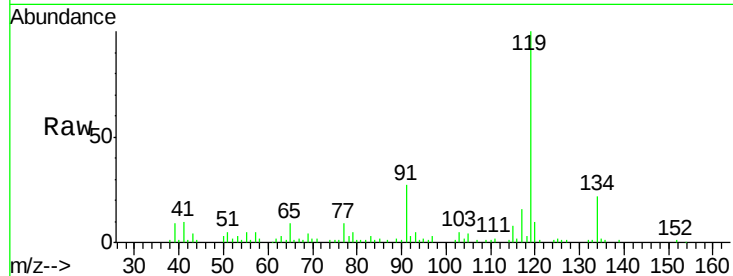
#86
p-Isopropyltoluene
Concen: 6.905 ug/l
RT: 14.49 min Scan# 1328
Delta R.T. 0.00 min
Lab File: VD061715.D
Acq: 10 Apr 2019 16:14

Instrument :
MSVOA_D
ClientSampleId :
20190171-COMP-CS-3

Tgt Ion	Ratio	Lower	Upper
119	100		
134	21.5	12.5	37.5
91	26.5	11.0	33.0

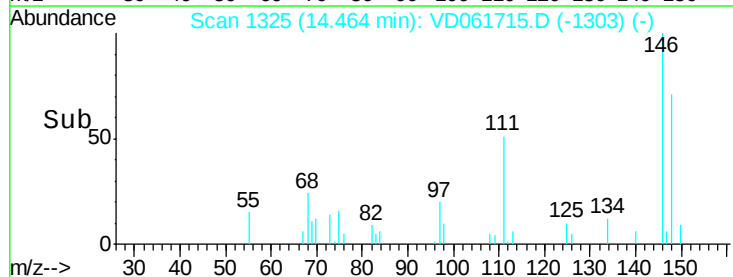
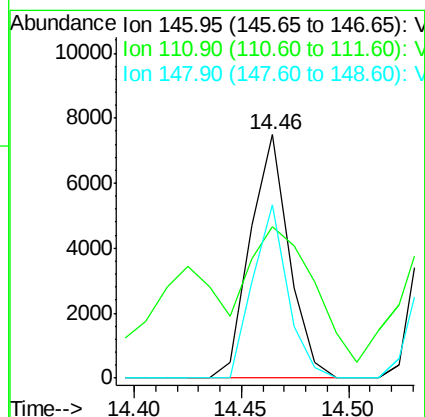
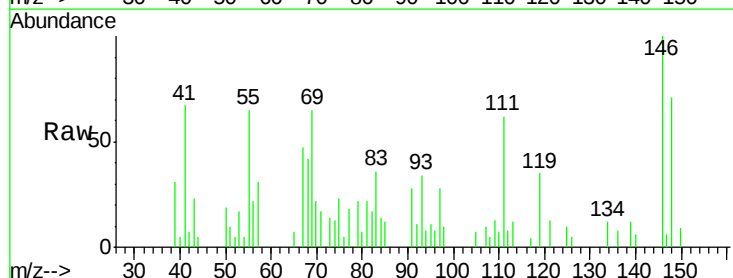
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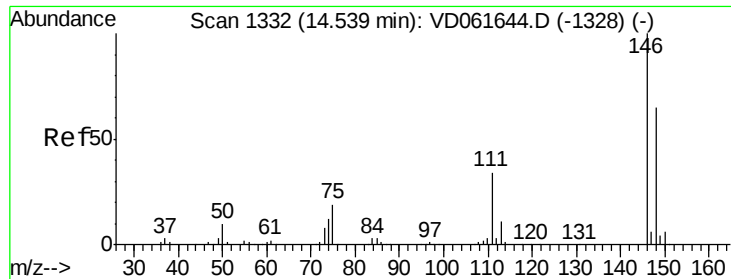
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#87
1,3-Dichlorobenzene
Concen: 1.367 ug/l m
RT: 14.46 min Scan# 1325
Delta R.T. 0.01 min
Lab File: VD061715.D
Acq: 10 Apr 2019 16:14

Tgt Ion	Ratio	Lower	Upper
146	100		
111	62.3	20.3	61.0#
148	70.9	31.7	95.1





#88

1,4-Dichlorobenzene

Concen: 2.123 ug/l

RT: 14.54 min Scan# 1333

Delta R.T. 0.00 min

Lab File: VD061715.D

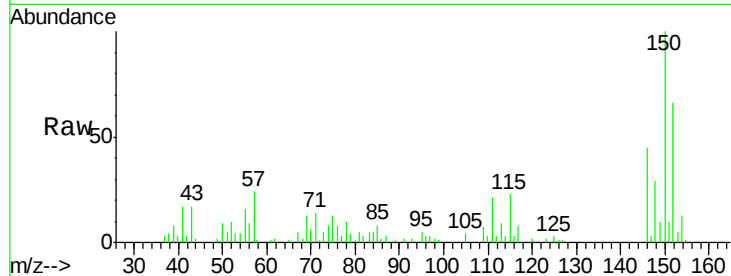
Acq: 10 Apr 2019 16:14

Instrument :

MSVOA_D

ClientSampleId :

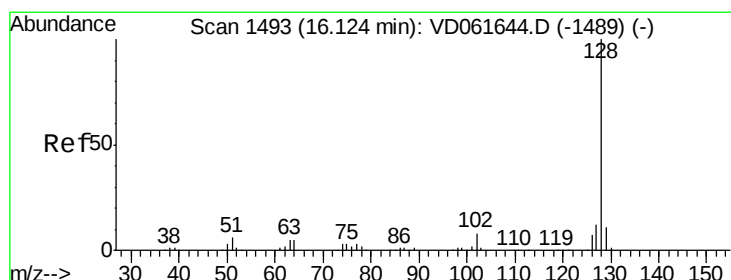
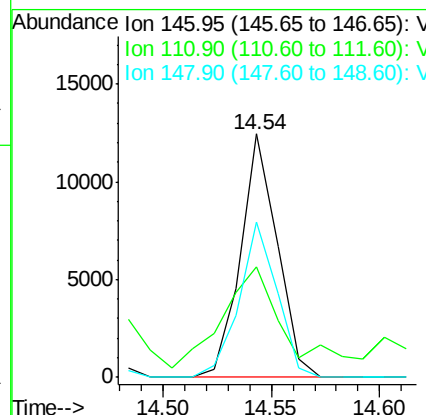
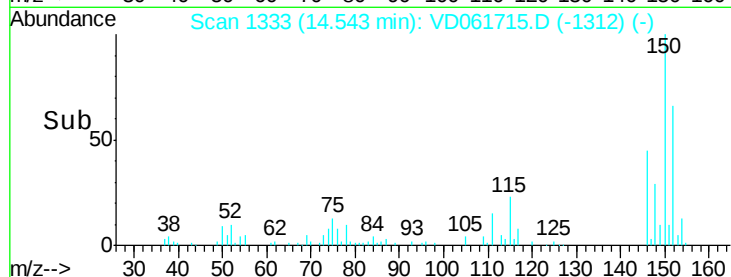
20190171-COMP-CS-3



Tgt Ion:	146	Resp:	14740
Ion Ratio	Lower	Upper	
146	100		
111	45.4	17.1	51.2
148	63.6	32.6	97.7

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#95

Naphthalene

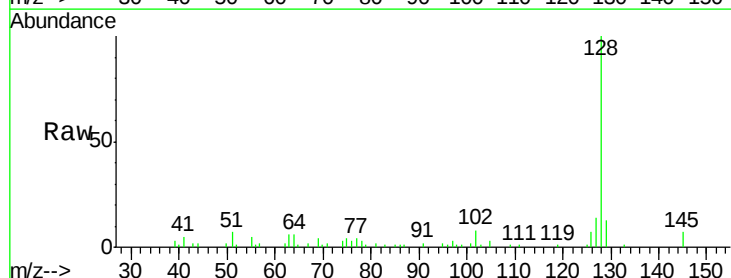
Concen: 7.684 ug/l

RT: 16.13 min Scan# 1494

Delta R.T. 0.00 min

Lab File: VD061715.D

Acq: 10 Apr 2019 16:14



Tgt Ion:	128	Resp:	35136
Ion Ratio	Lower	Upper	
128	100		
127	14.1	9.4	14.2
129	13.0	8.8	13.2

