

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062318\
 Data File : VD058347.D
 Acq On : 23 Jun 2018 18:11
 Operator : VA/AP
 Sample : J3664-22
 Misc : 5.83g/5ml/MSVOA D/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jun 25 01:09:24 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D061918S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 20 05:52:56 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	914669	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	6.73	114	1261207	50.00	ug/l	0.03
63) Chlorobenzene-d5	10.70	117	836927	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	12.92	152	467328	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.05	65	362018	39.18	ug/l	0.03
Spiked Amount			Recovery	=	78.36%	
35) Dibromofluoromethane	5.57	113	362320	35.30	ug/l	0.02
Spiked Amount			Recovery	=	70.60%	
50) Toluene-d8	8.74	98	641522	25.83	ug/l	0.03
Spiked Amount			Recovery	=	51.66%	
62) 4-Bromofluorobenzene	11.94	95	296221	29.20	ug/l	0.01
Spiked Amount			Recovery	=	58.40%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.35	85	892	Below Cal	#	43
3) Chloromethane	1.49	50	257	Below Cal	#	43
4) Vinyl Chloride	1.57	62	890022	185.75	ug/l	99
5) Bromomethane	1.86	94	189	Below Cal	#	3
6) Chloroethane	1.81	64	382	1.59	ug/l	41
9) 1,1,2-Trichlorotrifluoroet	2.58	101	227293	54.42	ug/l	98
11) Tert butyl alcohol	3.27	59	4486	14.72	ug/l	78
12) 1,1-Dichloroethene	2.57	96	3235154	1029.51	ug/l	89
13) Acrolein	2.59	56	220	1.26	ug/l	58
16) Acetone	2.63	43	132873	105.16	ug/l	85
18) Methyl Acetate	3.09	43	26908	9.99	ug/l	99
20) Methylene Chloride	3.09	84	4676713	1561.95	ug/l	95
21) trans-1,2-Dichloroethene	3.42	96	51930	15.12	ug/l	85
22) Diisopropyl ether	4.12	45	50808	1.75	ug/l	74
23) Vinyl Acetate	4.10	43	22256	1.43	ug/l	83
24) 1,1-Dichloroethane	4.00	63	210627	13.46	ug/l	98
25) 2-Butanone	4.88	43	211639	76.85	ug/l	54
27) cis-1,2-Dichloroethene	4.84	96	13794061	1607.29	ug/l	97
28) Bromochloromethane	5.20	49	30548	4.35	ug/l	89
29) Tetrahydrofuran	5.24	42	3311	2.26	ug/l	64
30) Chloroform	5.35	83	1329012	80.44	ug/l	96
31) Cyclohexane	5.66	56	35461	Below Cal	#	7
36) 1,1-Dichloropropene	5.66	75	79845	6.40	ug/l	53
37) Ethyl Acetate	4.88	43	217730	30.63	ug/l	1
38) Carbon Tetrachloride	5.76	117	124454	10.04	ug/l	88
39) Methylcyclohexane	7.41	83	33491	2.76	ug/l	47
40) Benzene	6.06	78	365367	12.29	ug/l	99
41) Methacrylonitrile	5.21	41	3917	1.14	ug/l	59
42) 1,2-Dichloroethane	6.16	62	399729	33.36	ug/l	97
44) Trichloroethene	6.99	130	5494622	615.68	ug/l	88
49) 1,4-Dioxane	7.55	88	728	14.00	ug/l	1
51) 4-Methyl-2-Pentanone	8.64	43	3002154	485.64	ug/l	97
52) Toluene	8.86	92	12426575	734.29	ug/l	96
55) 1,1,2-Trichloroethane	9.48	97	347065	57.97	ug/l	96

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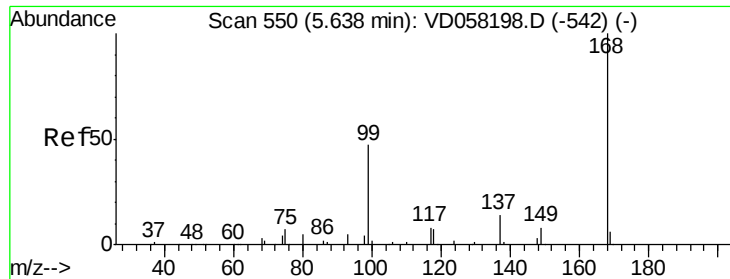
Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jun 25 01:09:24 2018
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

59) 2-Hexanone	9.81	43	9420	2.11	ug/l	86
64) Tetrachloroethene	9.54	164	171924	24.41	ug/l	96
65) Chlorobenzene	10.74	112	85540	5.46	ug/l #	88
67) Ethyl Benzene	10.87	91	235637	8.53	ug/l	95
68) m/p-Xylenes	11.02	106	323820	35.13	ug/l	95
69) o-Xylene	11.41	106	176579	20.06	ug/l	88
70) Styrene	11.44	104	456709	30.40	ug/l	98
73) Isopropylbenzene	11.79	105	42008	1.50	ug/l	95
78) n-propylbenzene	12.16	91	97431	2.70	ug/l	97
79) 2-Chlorotoluene	12.24	91	50774	2.46	ug/l #	45
80) 1,3,5-Trimethylbenzene	12.33	105	267099	12.25	ug/l	98
81) trans-1,4-Dichloro-2-buten	11.94	75	145161	87.23	ug/l #	1
82) 4-Chlorotoluene	12.33	91	32849	Below Cal	#	49
84) 1,2,4-Trimethylbenzene	12.63	105	713173	30.09	ug/l	99
85) sec-Butylbenzene	12.76	105	40056	1.36	ug/l	94
86) p-Isopropyltoluene	12.89	119	33495	1.41	ug/l	96
87) 1,3-Dichlorobenzene	12.85	146	358955	24.67	ug/l	97
88) 1,4-Dichlorobenzene	12.94	146	1242800	87.48	ug/l	99
89) n-Butylbenzene	13.18	91	40571	1.62	ug/l #	1
90) Hexachloroethane	13.38	117	11476	1.86	ug/l #	1
91) 1,2-Dichlorobenzene	13.20	146	4898847	395.68	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	13.75	75	4179	4.04	ug/l #	1
93) 1,2,4-Trichlorobenzene	14.35	180	26616	2.25	ug/l	85
95) Naphthalene	14.52	128	461789	29.61	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.66 min Scan# 552

Delta R.T. 0.02 min

Lab File: VD058347.D

Acq: 23 Jun 2018 18:11

Instrument :

MSVOA_D

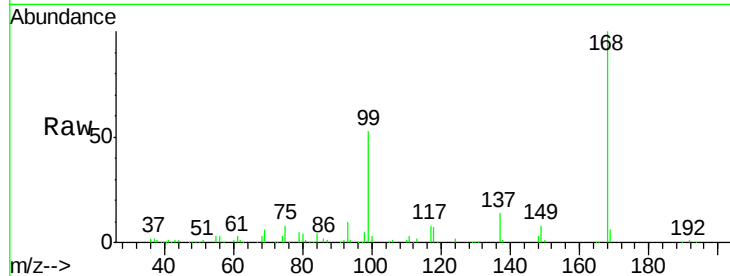
ClientSampleId :

Tot Ion:168 Resp: 914669

Ion Ratio Lower Upper

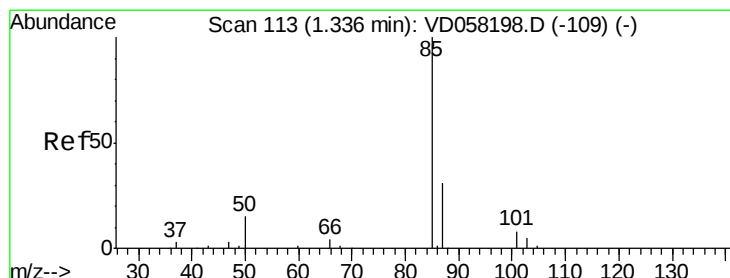
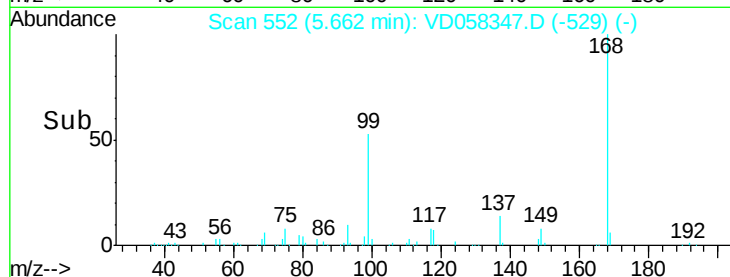
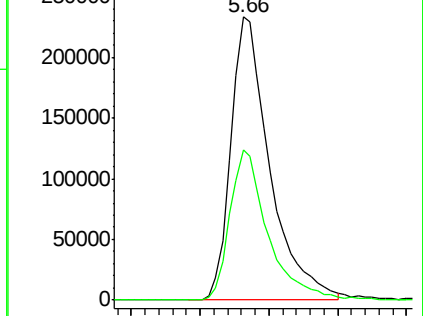
168 100

99 52.9 41.1 61.7



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: 1.35 min Scan# 114

Delta R.T. 0.02 min

Lab File: VD058347.D

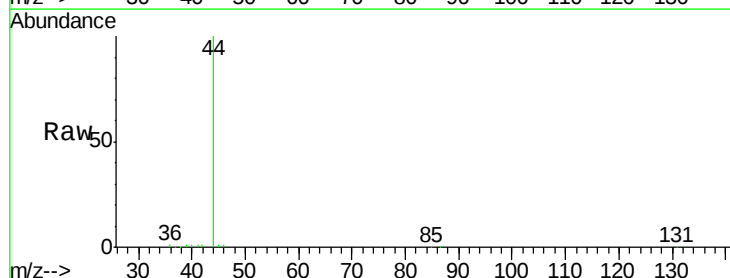
Acq: 23 Jun 2018 18:11

Tgt Ion: 85 Resp: 892

Ion Ratio Lower Upper

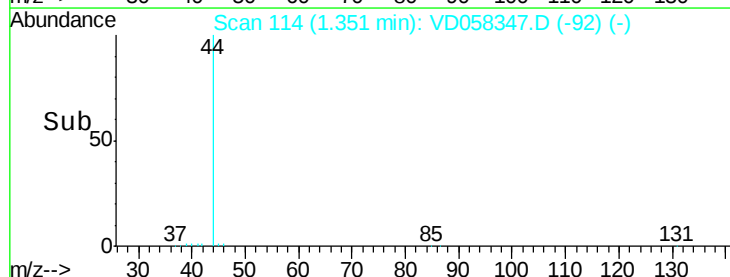
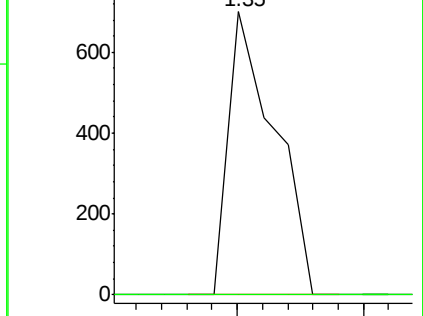
85 100

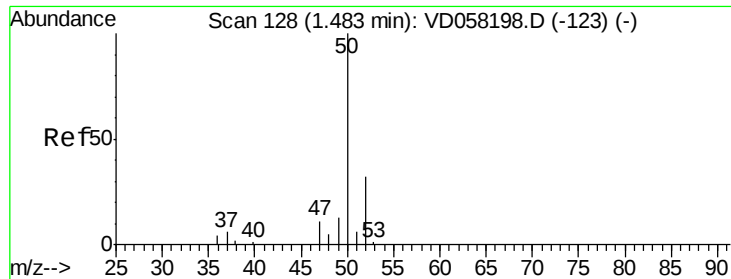
87 0.0 15.7 47.0#



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC





#3

Chloromethane

Concen: Below Cal

RT: 1.49 min Scan# 128

Delta R.T. 0.01 min

Lab File: VD058347.D

Acq: 23 Jun 2018 18:11

Instrument :

MSVOA_D

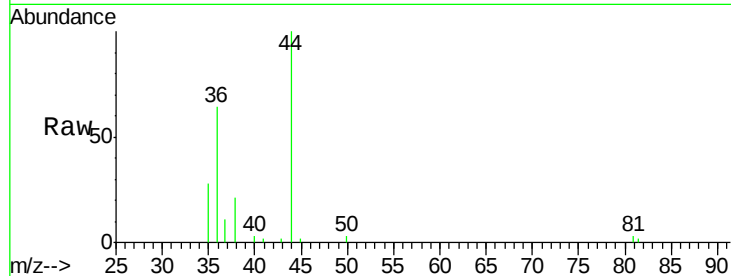
ClientSampleId :

Tot Ion: 50 Resp: 257

Ion Ratio Lower Upper

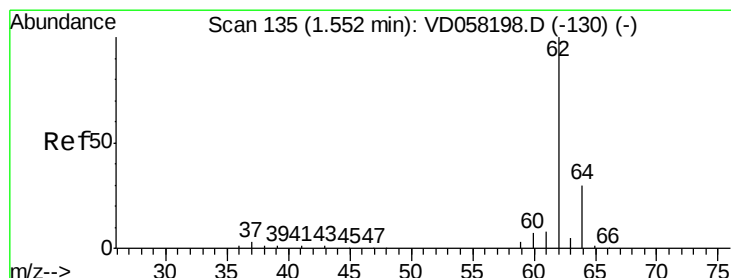
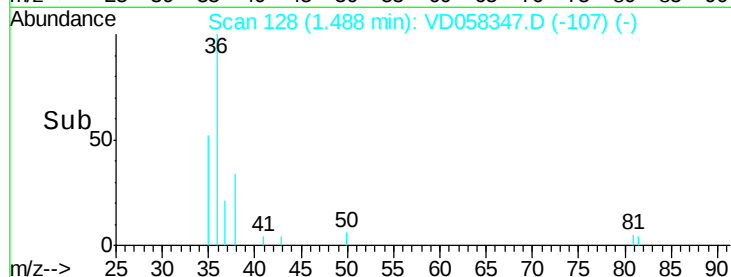
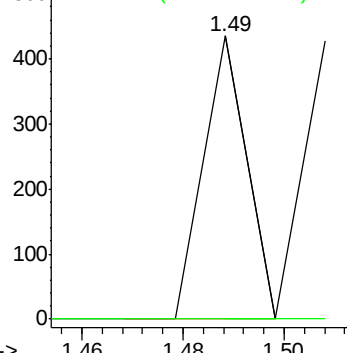
50 100

52 0.0 25.0 37.4#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 185.75 ug/l

RT: 1.57 min Scan# 136

Delta R.T. 0.01 min

Lab File: VD058347.D

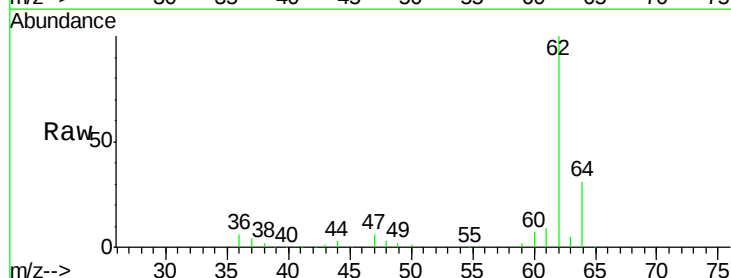
Acq: 23 Jun 2018 18:11

Tgt Ion: 62 Resp: 890022

Ion Ratio Lower Upper

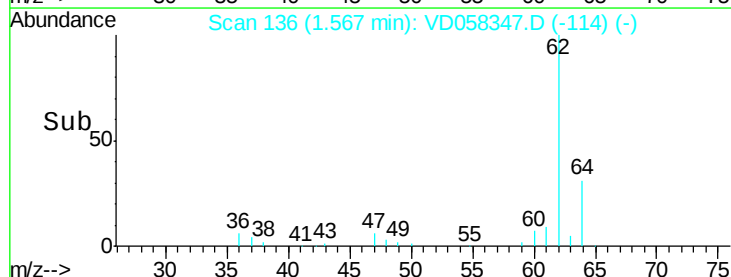
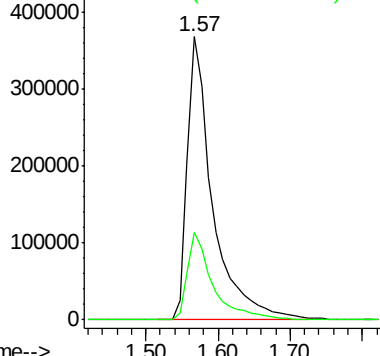
62 100

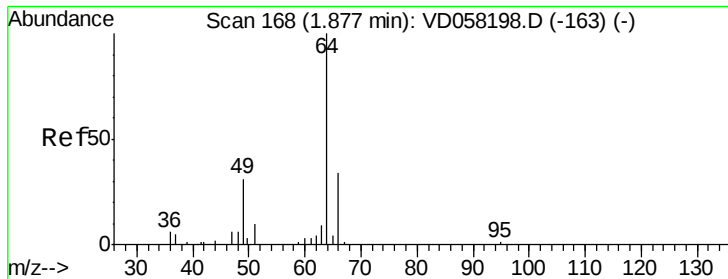
64 30.9 24.4 36.6



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC





#6

Chloroethane

Concen: 1.59 ug/l

RT: 1.81 min Scan# 161

Delta R.T. -0.06 min

Lab File: VD058347.D

Acq: 23 Jun 2018 18:11

Instrument :

MSVOA_D

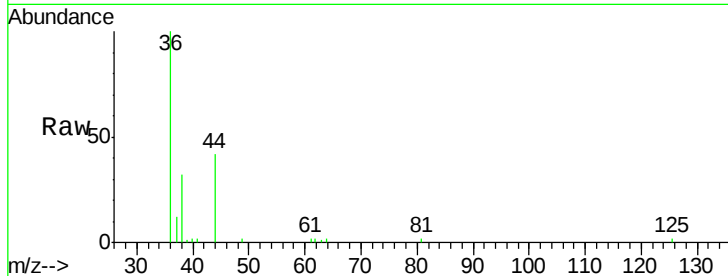
ClientSampleId :

Tot Ion: 64 Resp: 382

Ion Ratio Lower Upper

64 100

66 0.0 27.3 40.9#



Abundance Ion 63.95 (63.65 to 64.65): VDC

Ion 65.90 (65.60 to 66.60): VDC

1.81

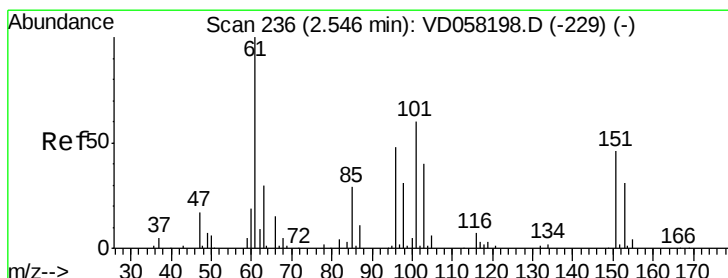
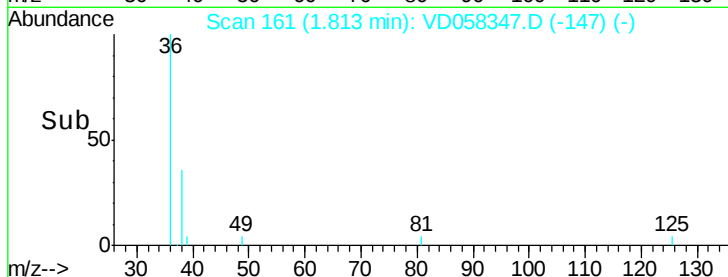
300

200

100

0

Time-->



#9

1,1,2-Trichlorotrifluoroethane

Concen: 54.42 ug/l

RT: 2.58 min Scan# 239

Delta R.T. 0.03 min

Lab File: VD058347.D

Acq: 23 Jun 2018 18:11

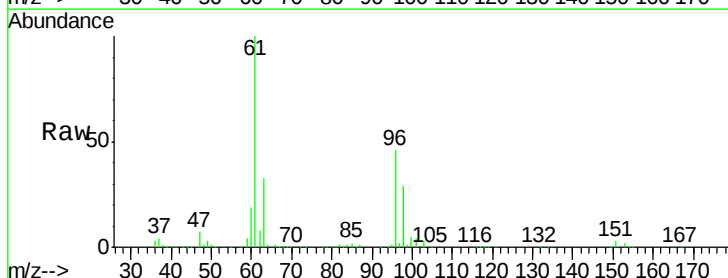
Tgt Ion:101 Resp: 227293

Ion Ratio Lower Upper

101 100

85 45.5 39.0 58.4

151 76.4 61.8 92.8



Abundance Ion 100.85 (100.55 to 101.55): V

Ion 84.95 (84.65 to 85.65): VDC

Ion 150.90 (150.60 to 151.60): V

2.58

80000

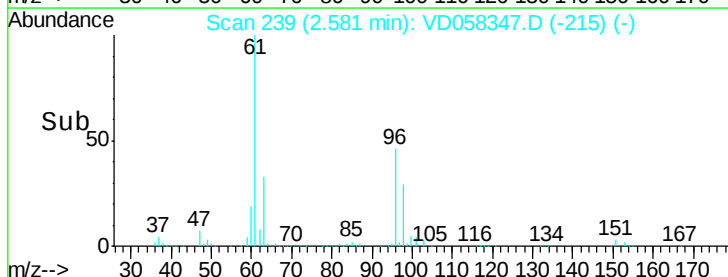
60000

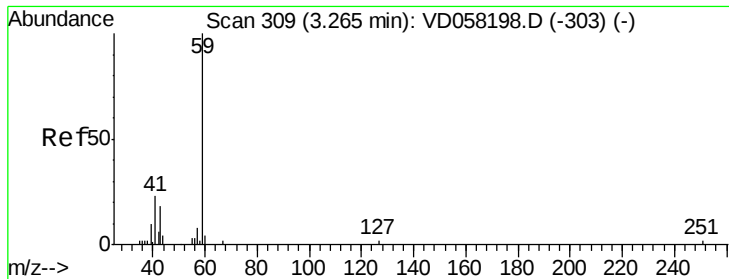
40000

20000

0

Time-->



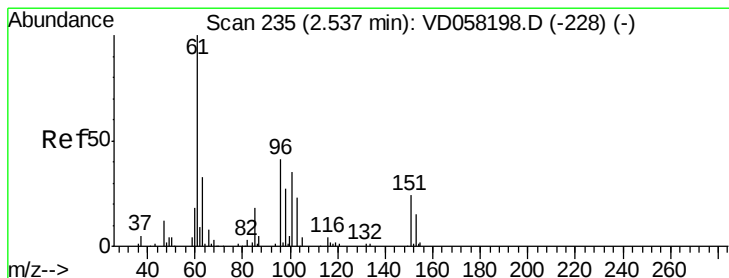
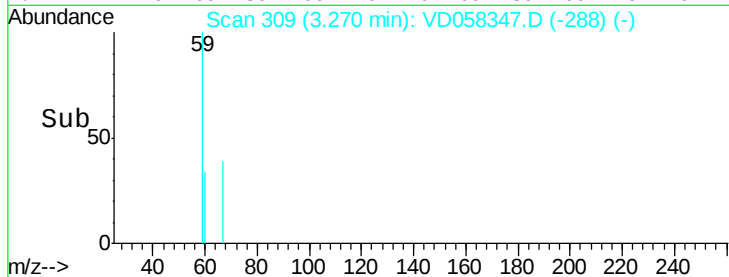
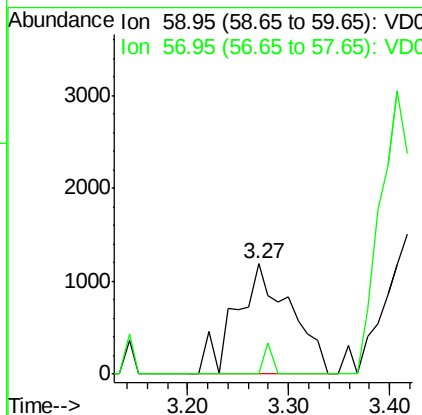
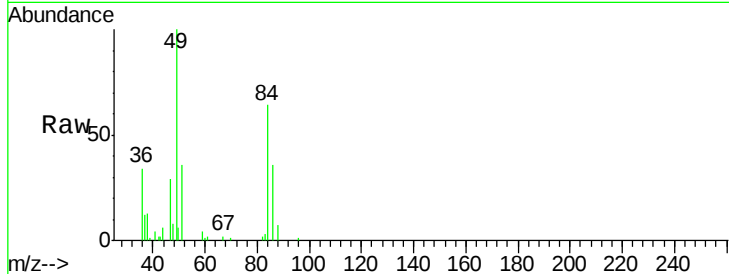


#11

Tert butyl alcohol
 Concen: 14.72 ug/l
 RT: 3.27 min Scan# 309
 Delta R.T. 0.01 min
 Lab File: VD058347.D
 Acq: 23 Jun 2018 18:11

Instrument :
 MSVOA_D
 ClientSampled :

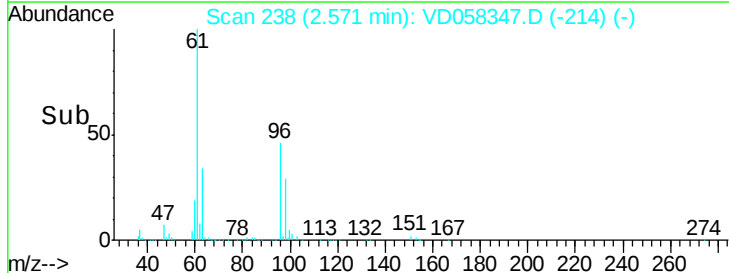
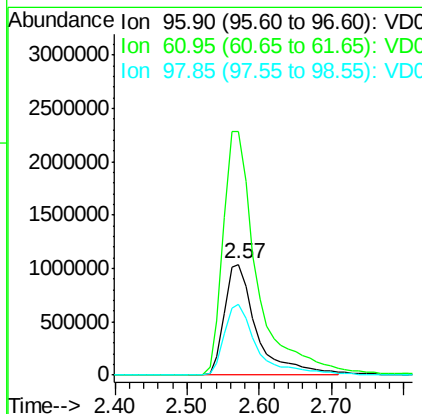
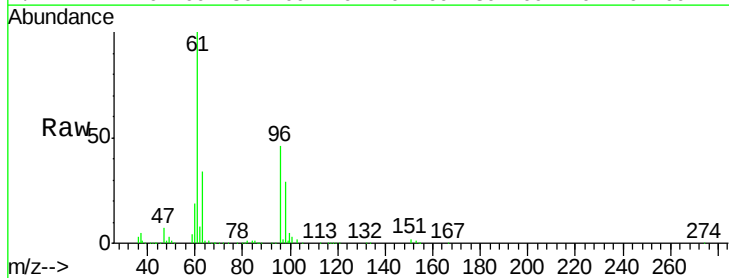
Tot Ion: 59 Resp: 4486
 Ion Ratio Lower Upper
 59 100
 57 0.0 6.2 9.4#

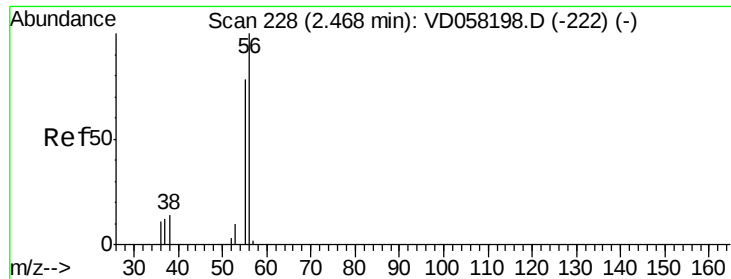


#12

1,1-Dichloroethene
 Concen: 1029.51 ug/l
 RT: 2.57 min Scan# 238
 Delta R.T. 0.03 min
 Lab File: VD058347.D
 Acq: 23 Jun 2018 18:11

Tgt Ion: 96 Resp: 3235154
 Ion Ratio Lower Upper
 96 100
 61 219.0 193.9 290.9
 98 63.8 51.7 77.5

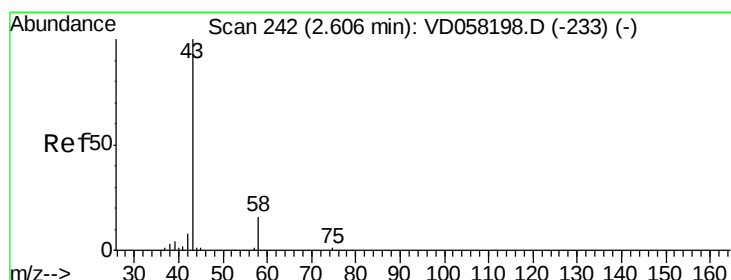
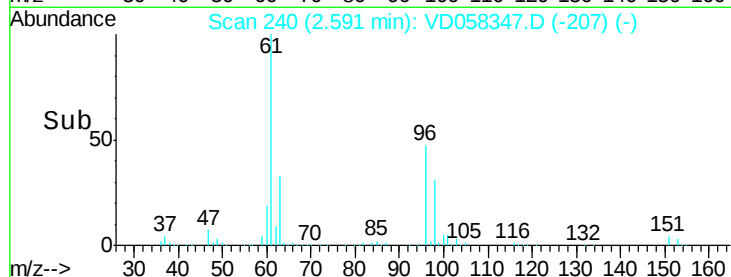
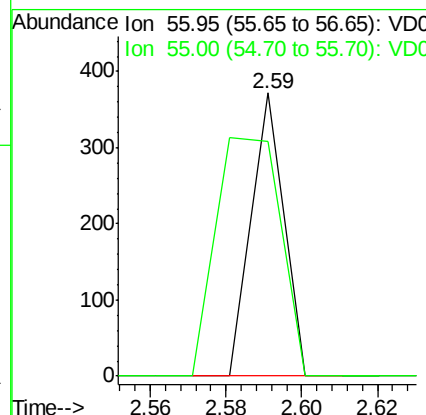
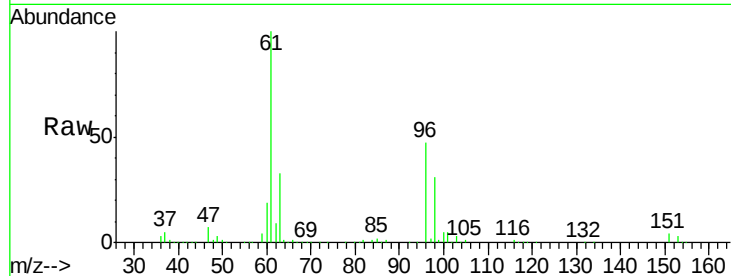




#13
Acrolein
Concen: 1.26 ug/l
RT: 2.59 min Scan# 240
Delta R.T. 0.12 min
Lab File: VD058347.D
Acq: 23 Jun 2018 18:11

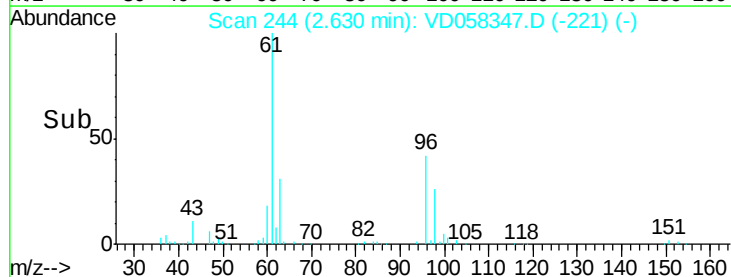
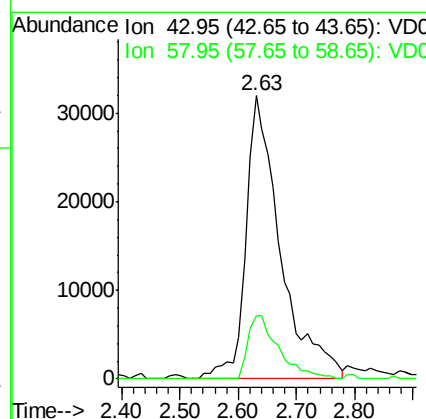
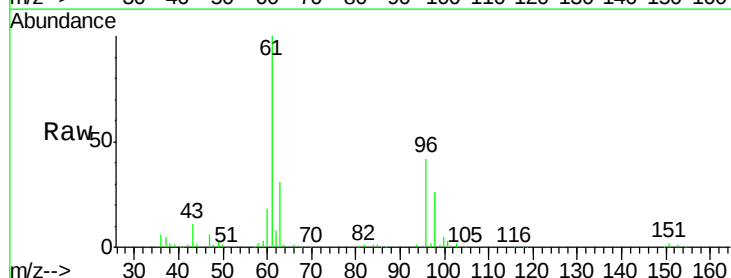
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MSVOA_D
ClientSampleId :

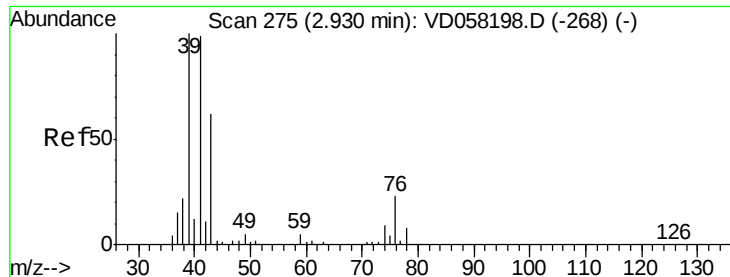
Tot Ion: 56 Resp: 220
Ion Ratio Lower Upper
56 100
55 41.3 62.1 93.1#



#16
Acetone
Concen: 105.16 ug/l
RT: 2.63 min Scan# 244
Delta R.T. 0.02 min
Lab File: VD058347.D
Acq: 23 Jun 2018 18:11

Tgt Ion: 43 Resp: 132873
Ion Ratio Lower Upper
43 100
58 22.2 12.7 19.1#

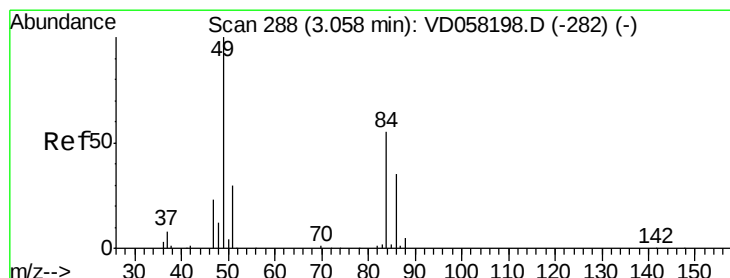
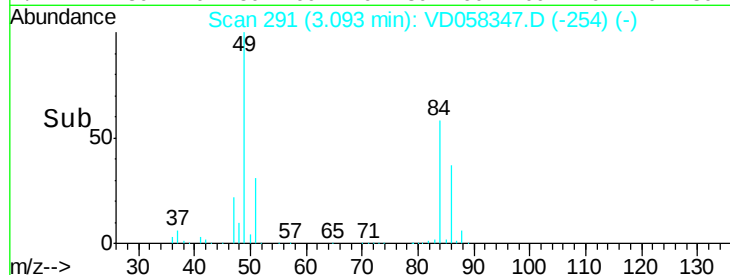
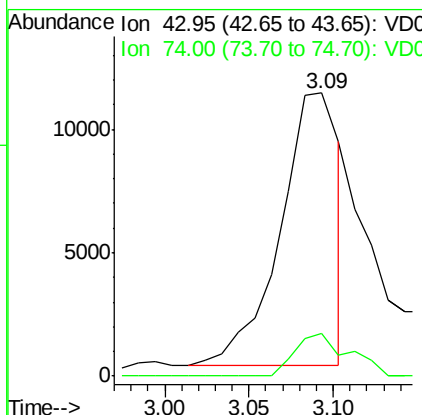
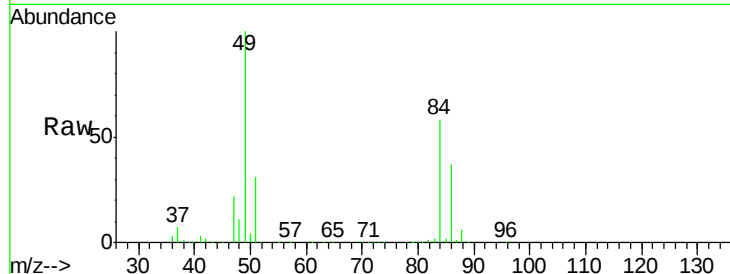




#18
Methyl Acetate
Concen: 9.99 ug/l
RT: 3.09 min Scan# 291
Delta R.T. 0.16 min
Lab File: VD058347.D
Acq: 23 Jun 2018 18:11

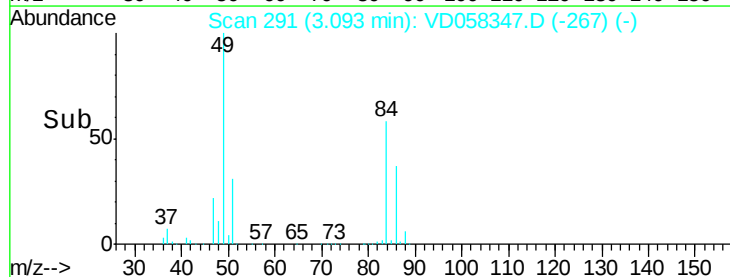
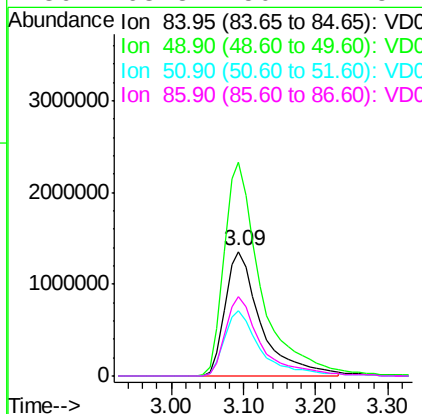
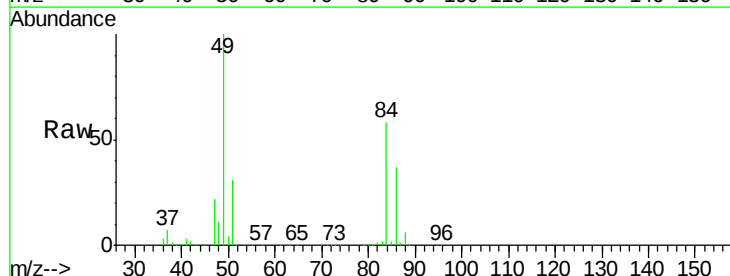
Instrument :
MSVOA_D
ClientSampled :

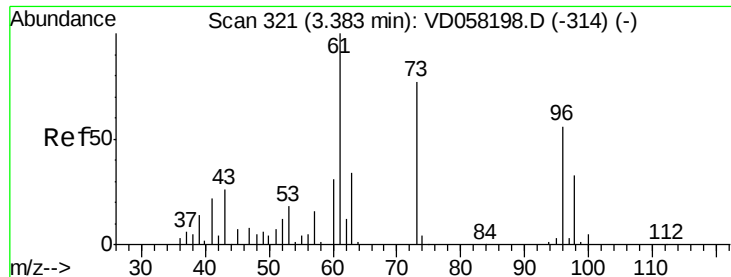
Tot Ion: 43 Resp: 26908
Ion Ratio Lower Upper
43 100
74 15.0 11.7 17.5



#20
Methylene Chloride
Concen: 1561.95 ug/l
RT: 3.09 min Scan# 291
Delta R.T. 0.03 min
Lab File: VD058347.D
Acq: 23 Jun 2018 18:11

Tgt Ion: 84 Resp: 4676713
Ion Ratio Lower Upper
84 100
49 171.5 145.0 217.6
51 52.9 42.9 64.3
86 63.8 50.1 75.1





#21

trans-1,2-Dichloroethene

Concen: 15.12 ug/l

RT: 3.42 min Scan# 324

Delta R.T. 0.03 min

Lab File: VD058347.D

Acq: 23 Jun 2018 18:11

Instrument :

MSVOA_D

ClientSampleId :

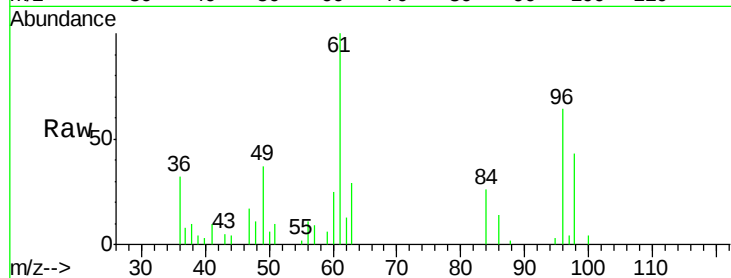
Tot Ion: 96 Resp: 51930

Ion Ratio Lower Upper

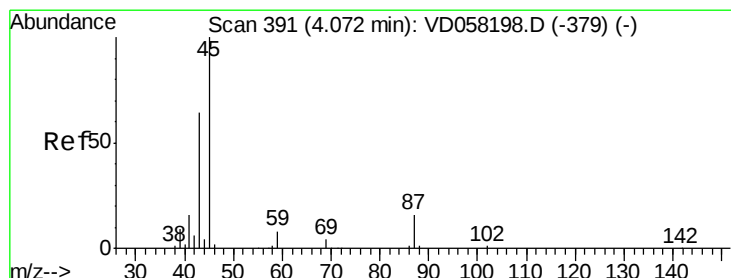
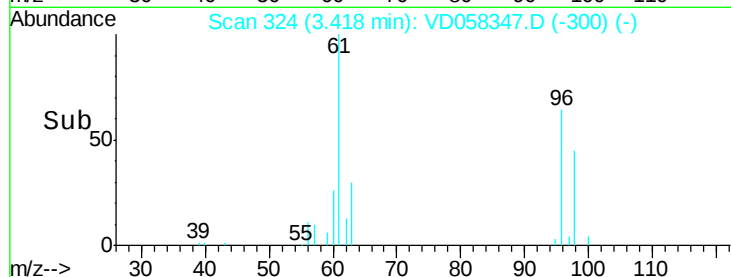
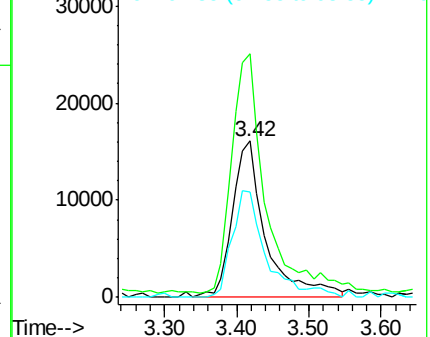
96 100

61 156.0 143.8 215.6

98 67.6 48.0 72.0



Abundance Ion 95.90 (95.60 to 96.60): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 97.85 (97.55 to 98.55): VDC



#22

Diisopropyl ether

Concen: 1.75 ug/l

RT: 4.12 min Scan# 395

Delta R.T. 0.04 min

Lab File: VD058347.D

Acq: 23 Jun 2018 18:11

Tgt Ion: 45 Resp: 50808

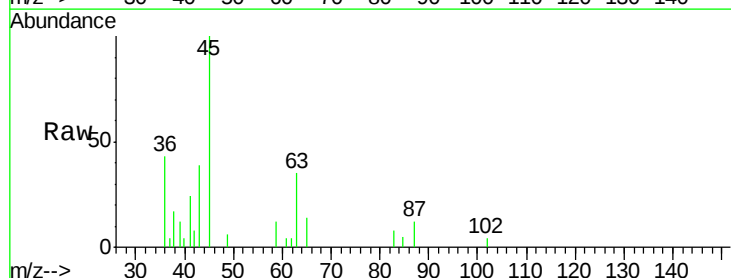
Ion Ratio Lower Upper

45 100

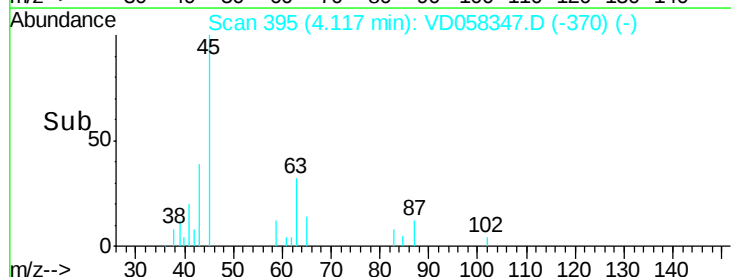
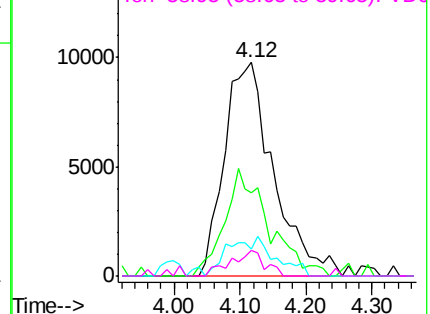
43 39.0 51.4 77.0#

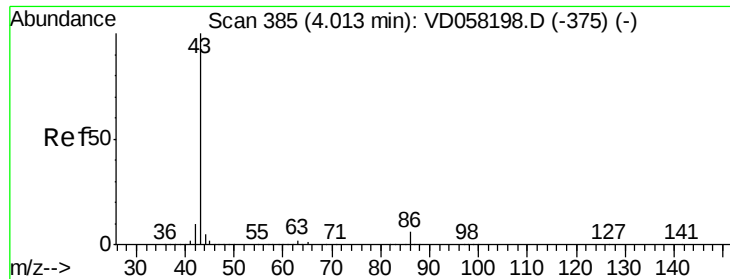
87 12.5 13.0 19.4#

59 11.7 6.9 10.3#



Abundance Ion 45.05 (44.75 to 45.75): VDC
Ion 43.05 (42.75 to 43.75): VDC
Ion 87.00 (86.70 to 87.70): VDC
Ion 58.95 (58.65 to 59.65): VDC





#23

Vinyl Acetate

Concen: 1.43 ug/l

RT: 4.10 min Scan# 393

Delta R.T. 0.08 min

Lab File: VD058347.D

Acq: 23 Jun 2018 18:11

Instrument :

MSVOA_D

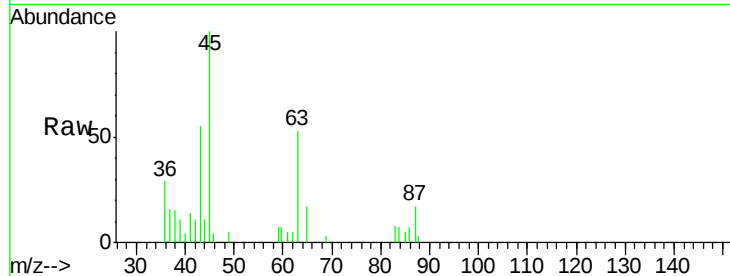
ClientSampled :

Tot Ion: 43 Resp: 22256

Ion Ratio Lower Upper

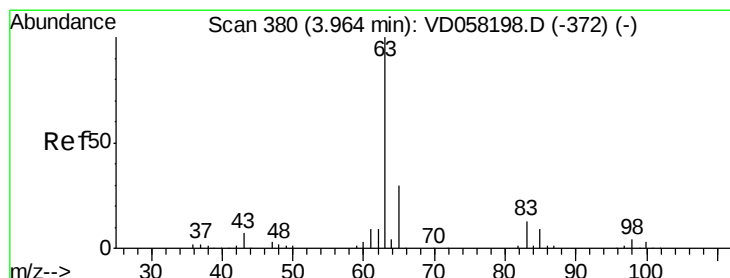
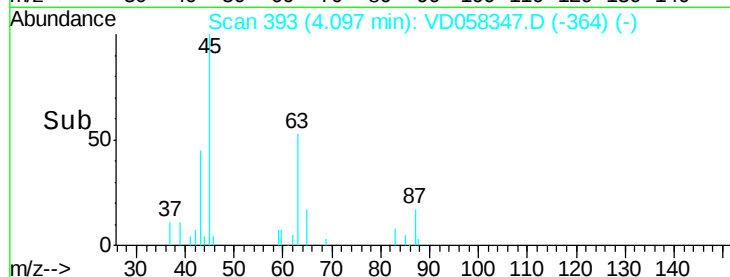
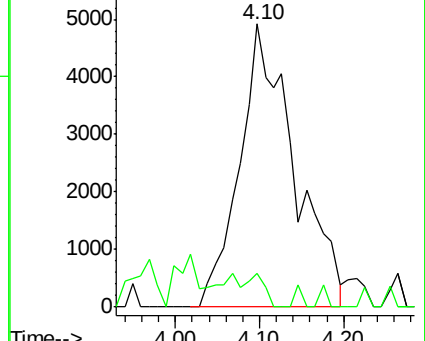
43 100

86 12.1 5.0 7.4#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 86.00 (85.70 to 86.70): VDC



#24

1,1-Dichloroethane

Concen: 13.46 ug/l

RT: 4.00 min Scan# 383

Delta R.T. 0.03 min

Lab File: VD058347.D

Acq: 23 Jun 2018 18:11

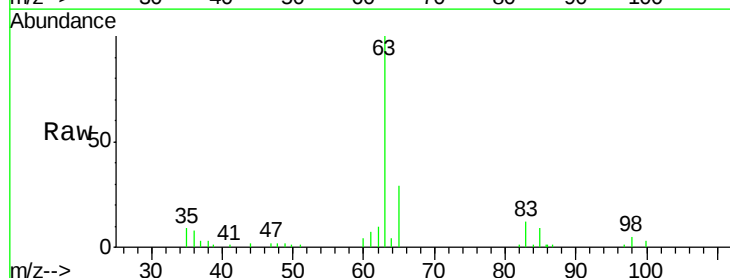
Tgt Ion: 63 Resp: 210627

Ion Ratio Lower Upper

63 100

98 5.1 1.9 5.7

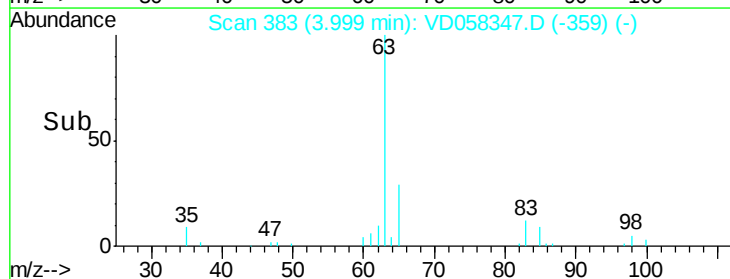
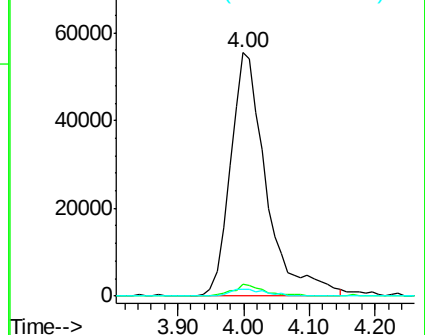
100 2.5 1.3 3.9

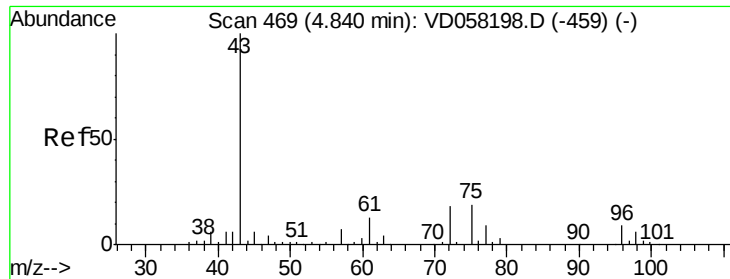


Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 97.95 (97.65 to 98.65): VDC

Ion 99.95 (99.65 to 100.65): VDC





#25

2-Butanone

Concen: 76.85 ug/l

RT: 4.88 min Scan# 473

Delta R.T. 0.04 min

Lab File: VD058347.D

Acq: 23 Jun 2018 18:11

Instrument :

MSVOA_D

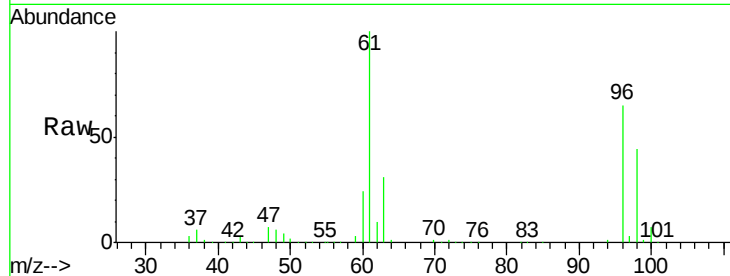
ClientSampled :

Tot Ion: 43 Resp: 211639

Ion Ratio Lower Upper

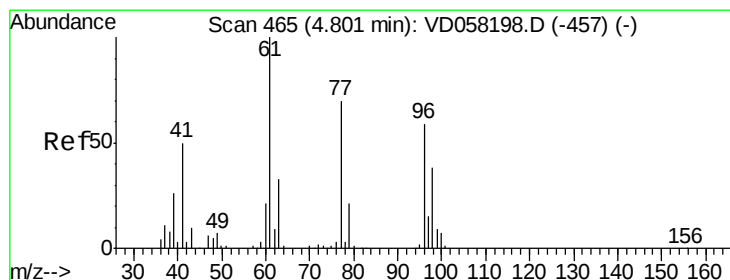
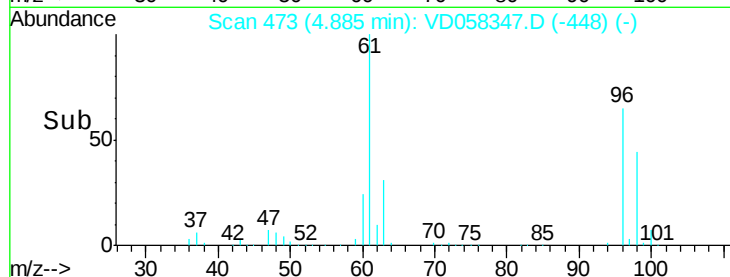
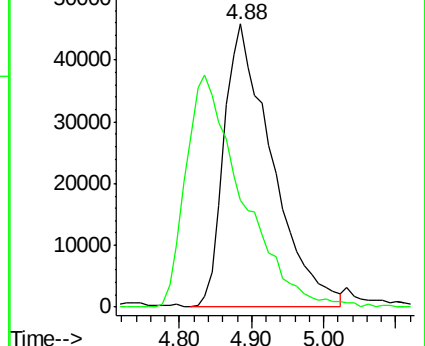
43 100

72 37.7 14.1 21.1#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#27

cis-1,2-Dichloroethene

Concen: 1607.29 ug/l

RT: 4.84 min Scan# 468

Delta R.T. 0.03 min

Lab File: VD058347.D

Acq: 23 Jun 2018 18:11

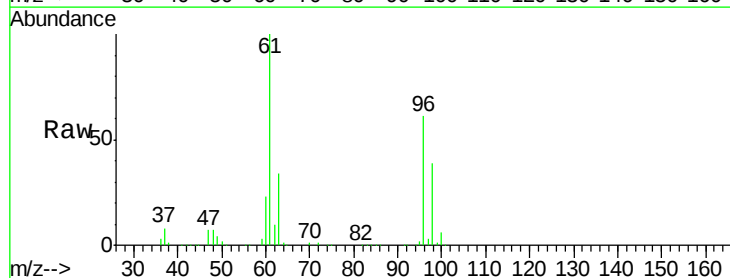
Tgt Ion: 96 Resp:13794061

Ion Ratio Lower Upper

96 100

61 163.7 0.0 338.6

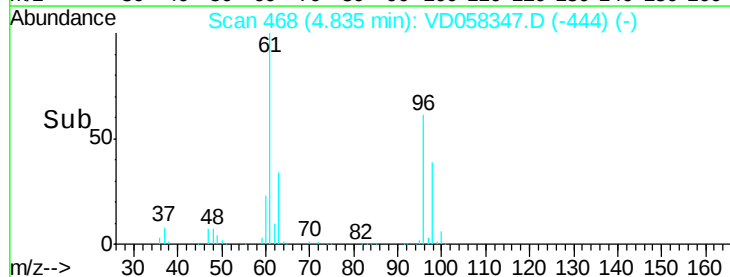
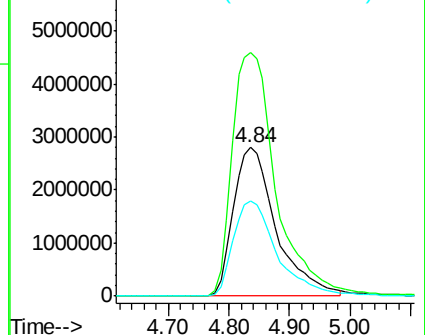
98 64.3 0.0 130.2

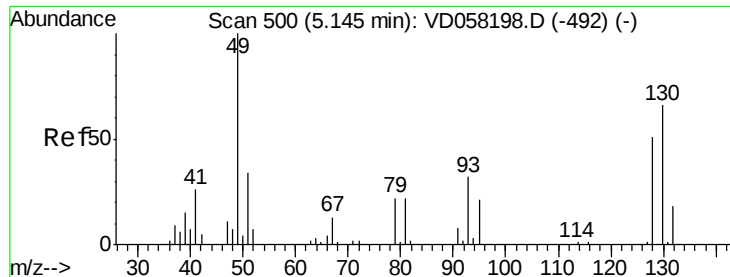


Abundance Ion 95.90 (95.60 to 96.60): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 97.85 (97.55 to 98.55): VDC





#28

Bromochloromethane

Concen: 4.35 ug/l

RT: 5.20 min Scan# 505

Delta R.T. 0.05 min

Lab File: VD058347.D

Acq: 23 Jun 2018 18:11

Instrument :
MSVOA_D
ClientSampleId :

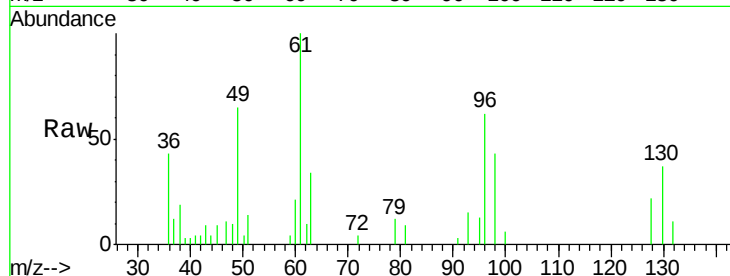
Tot Ion: 49 Resp: 30548

Ion Ratio Lower Upper

49 100

129 0.0 0.0 0.0

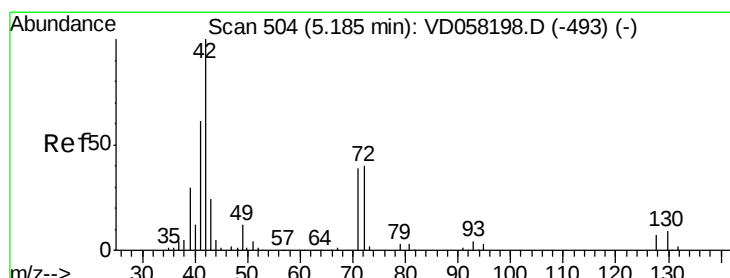
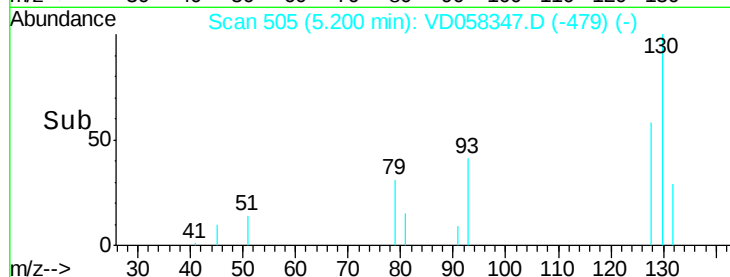
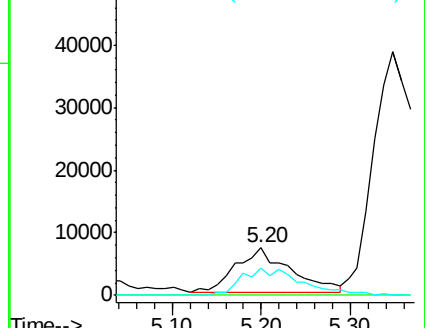
130 56.7 52.6 79.0



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



#29

Tetrahydrofuran

Concen: 2.26 ug/l

RT: 5.24 min Scan# 509

Delta R.T. 0.05 min

Lab File: VD058347.D

Acq: 23 Jun 2018 18:11

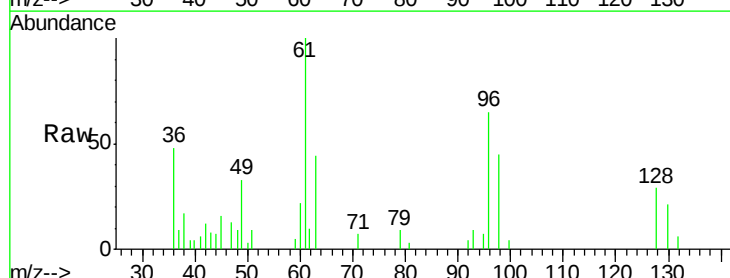
Tgt Ion: 42 Resp: 3311

Ion Ratio Lower Upper

42 100

72 0.0 30.2 45.2#

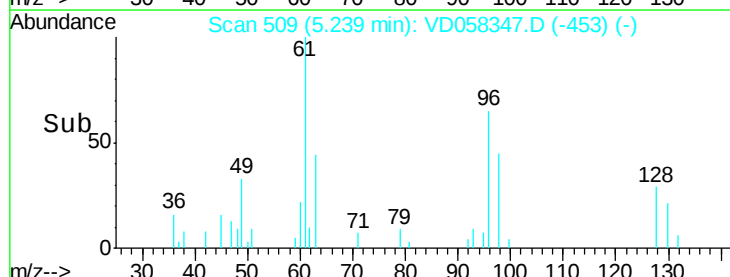
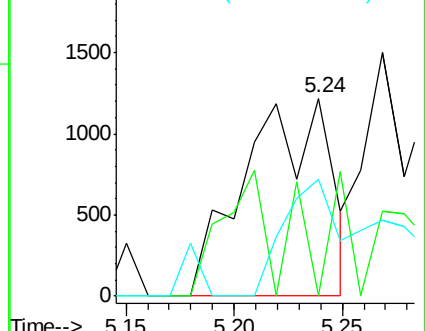
71 43.4 30.1 45.1

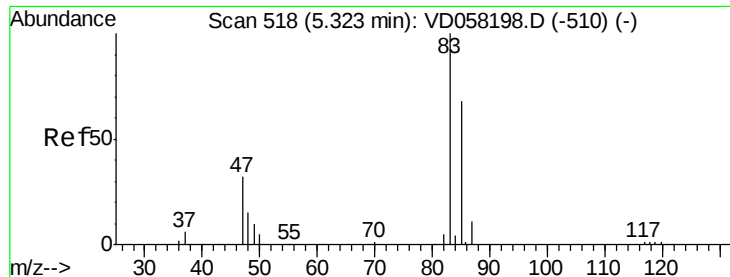


Abundance Ion 42.00 (41.70 to 42.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

Ion 71.00 (70.70 to 71.70): VDC

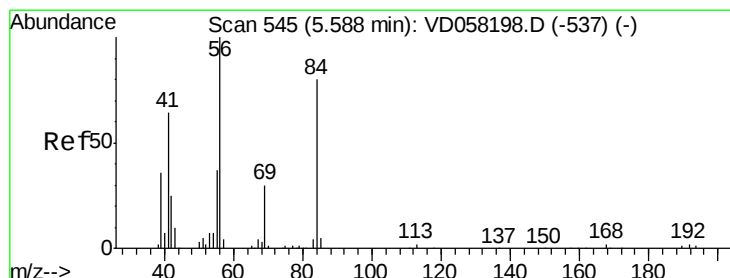
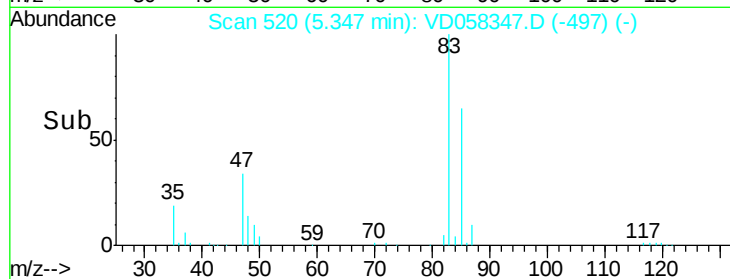
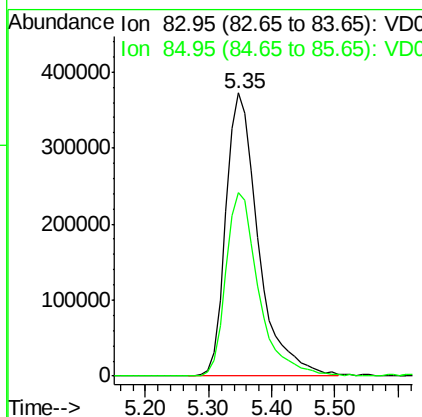
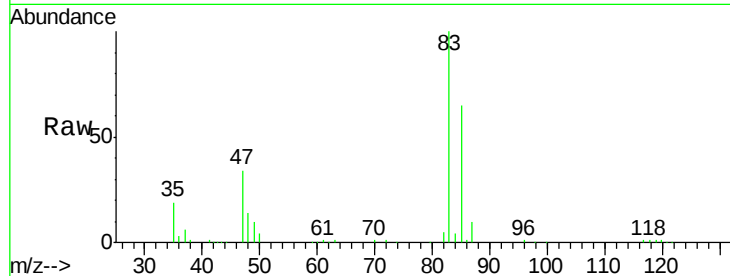




#30
Chloroform
Concen: 80.44 ug/l
RT: 5.35 min Scan# 520
Delta R.T. 0.02 min
Lab File: VD058347.D
Acq: 23 Jun 2018 18:11

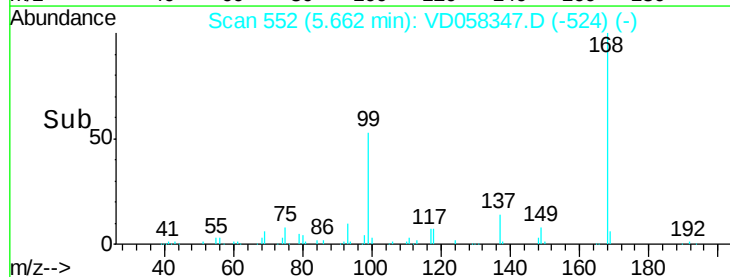
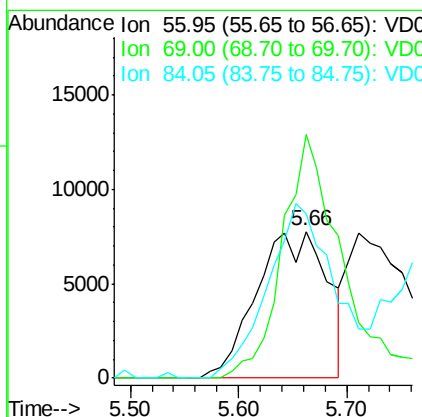
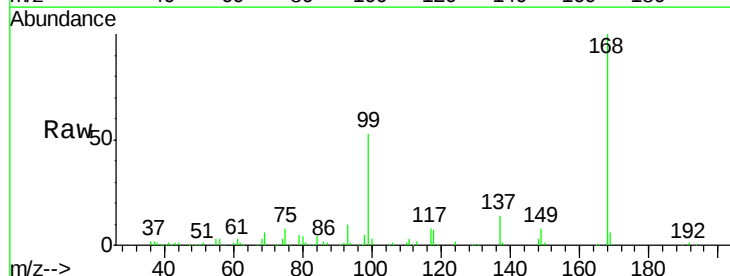
Instrument :
MSVOA_D
ClientSampled :

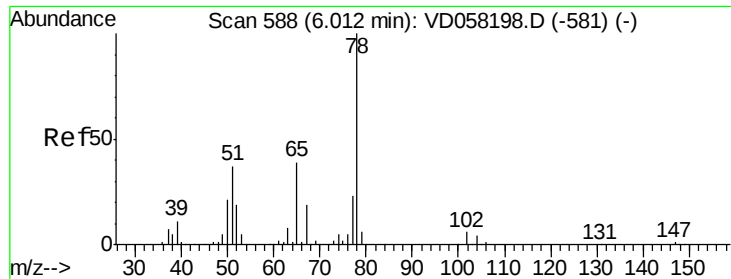
Tot Ion: 83 Resp: 1329012
Ion Ratio Lower Upper
83 100
85 65.0 54.8 82.2



#31
Cyclohexane
Concen: Below Cal
RT: 5.66 min Scan# 552
Delta R.T. 0.07 min
Lab File: VD058347.D
Acq: 23 Jun 2018 18:11

Tgt Ion: 56 Resp: 35461
Ion Ratio Lower Upper
56 100
69 166.3 23.6 35.4#
84 112.1 65.2 97.8#

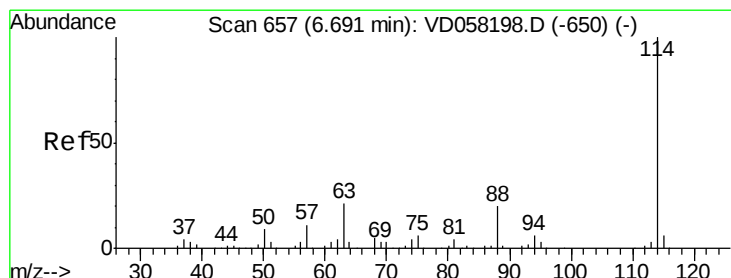
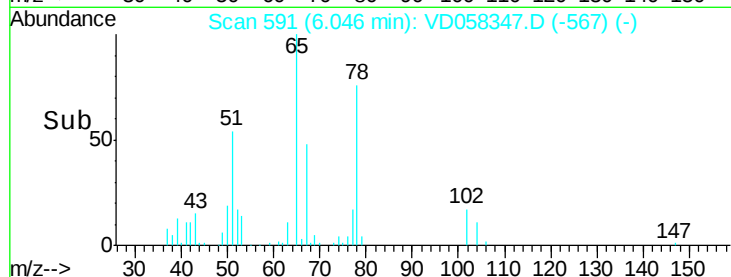
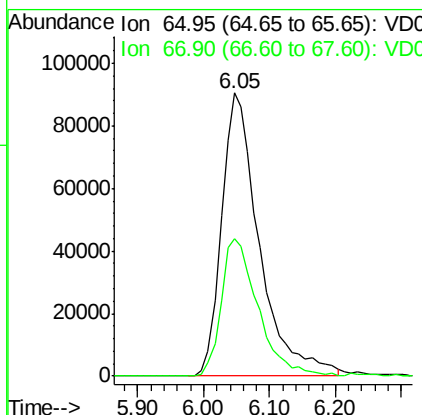
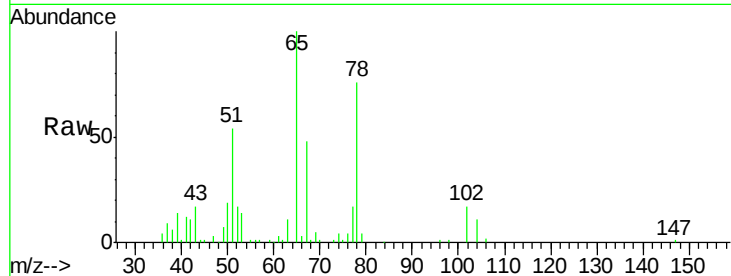




#33
 1,2-Dichloroethane-d4
 Concen: Below ug/l
 RT: 6.05 min Scan# 591
 Delta R.T. 0.03 min
 Lab File: VD058347.D
 Acq: 23 Jun 2018 18:11

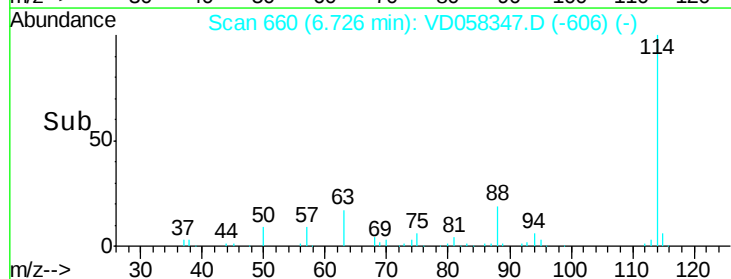
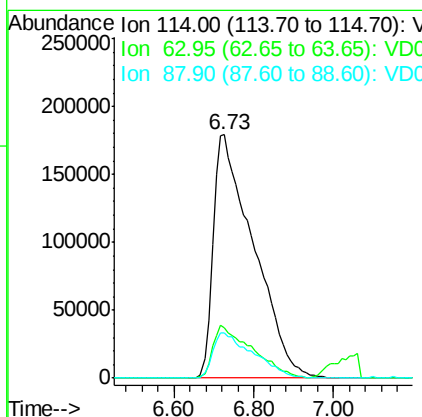
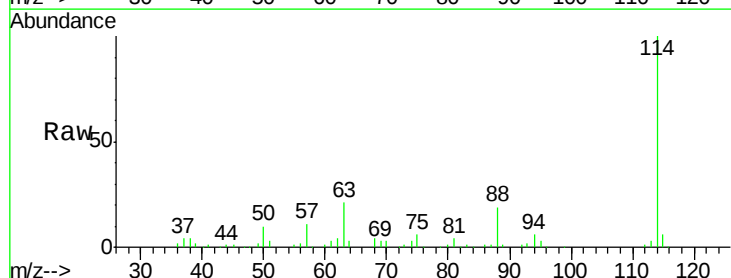
Instrument :
 MSVOA_D
 ClientSampled :

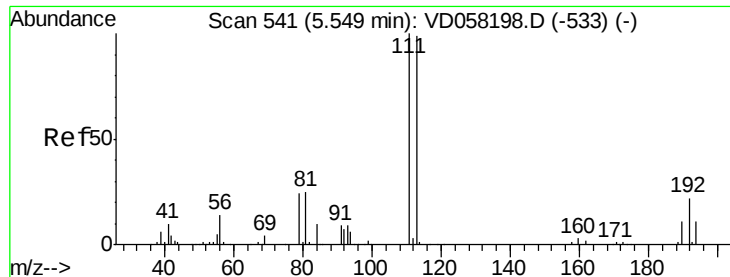
Tot Ion: 65 Resp: 362018
 Ion Ratio Lower Upper
 65 100
 67 48.4 0.0 97.8



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.73 min Scan# 660
 Delta R.T. 0.03 min
 Lab File: VD058347.D
 Acq: 23 Jun 2018 18:11

Tgt Ion: 114 Resp: 1261207
 Ion Ratio Lower Upper
 114 100
 63 20.7 0.0 42.6
 88 18.5 0.0 40.6

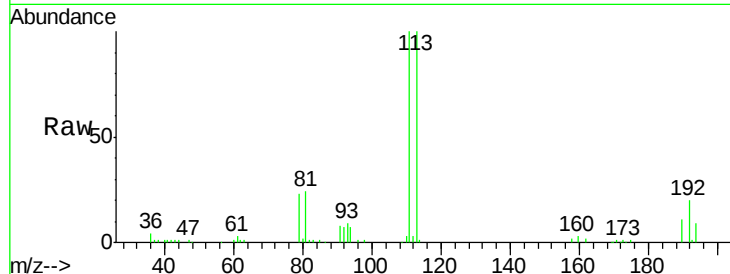




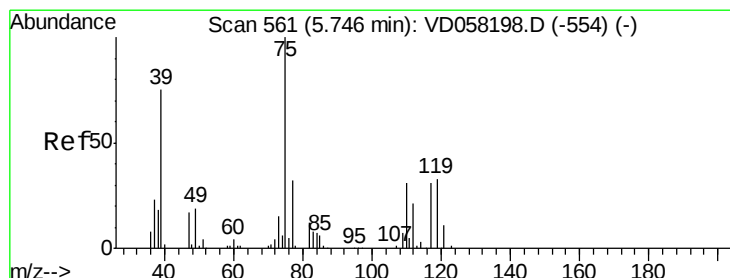
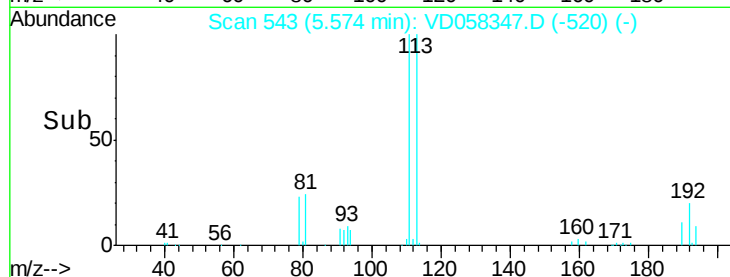
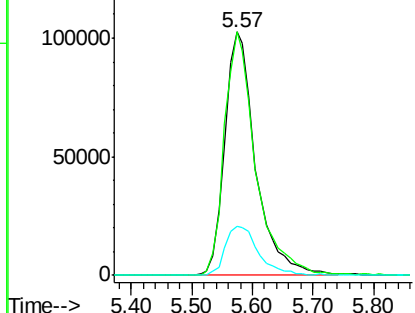
#35
 Dibromofluoromethane
 Concen: 50.00 ug/l
 RT: 5.57 min Scan# 543
 Delta R.T. 0.02 min
 Lab File: VD058347.D
 Acq: 23 Jun 2018 18:11

Instrument :
 MSVOA_D
 ClientSampled :

Tot Ion:113 Resp: 362320
 Ion Ratio Lower Upper
 113 100
 111 100.1 80.6 121.0
 192 20.3 17.8 26.6

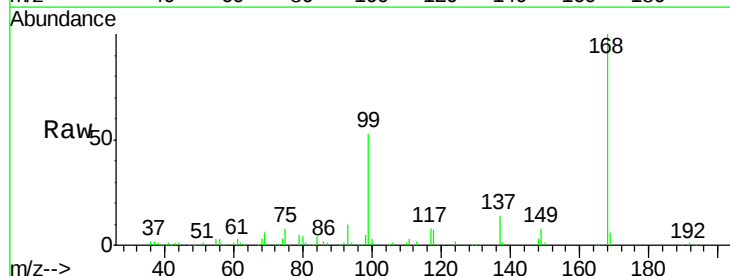


Abundance Ion 112.90 (112.60 to 113.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 191.80 (191.50 to 192.50): V

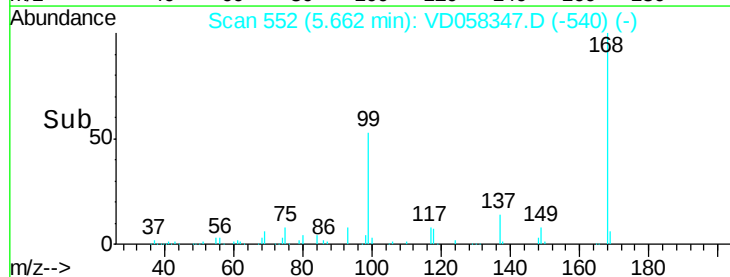
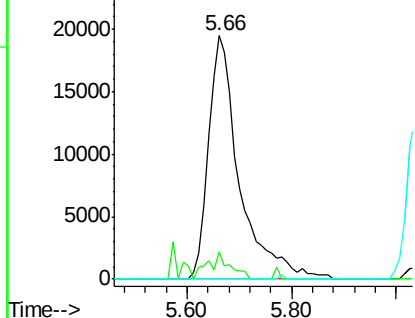


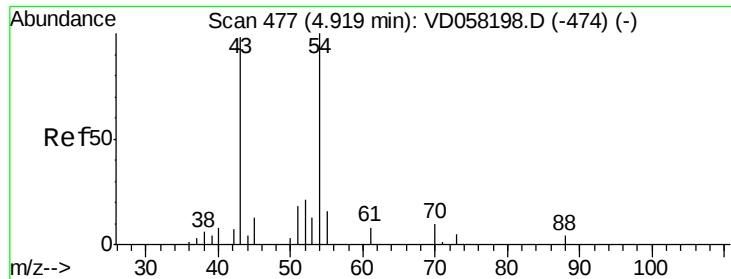
#36
 1,1-Dichloropropene
 Concen: 6.40 ug/l
 RT: 5.66 min Scan# 552
 Delta R.T. -0.08 min
 Lab File: VD058347.D
 Acq: 23 Jun 2018 18:11

Tgt Ion: 75 Resp: 79845
 Ion Ratio Lower Upper
 75 100
 110 11.0 15.4 46.4#
 77 0.0 25.4 38.2#



Abundance Ion 75.00 (74.70 to 75.70): VDC
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.95 (76.65 to 77.65): VDC





#37

Ethyl Acetate

Concen: 30.63 ug/l

RT: 4.88 min Scan# 473

Delta R.T. -0.03 min

Lab File: VD058347.D

Acq: 23 Jun 2018 18:11

Instrument :

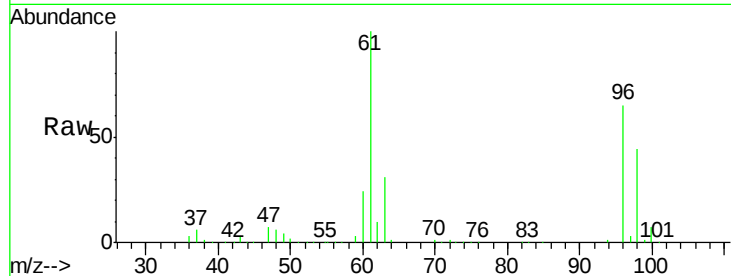
MSVOA_D

ClientSampled :

Tot Ion: 43 Resp: 217730

Ion Ratio Lower Upper

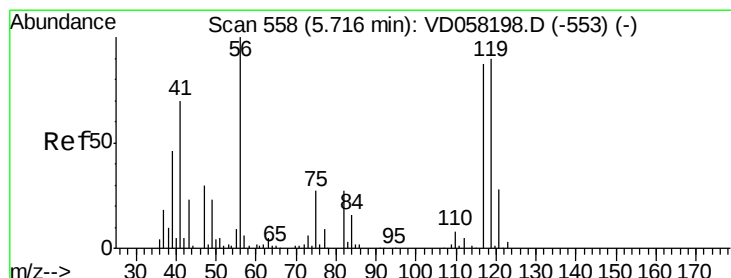
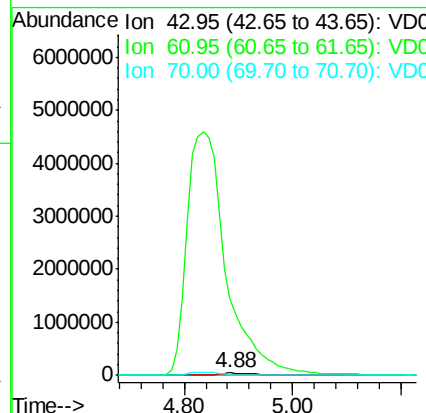
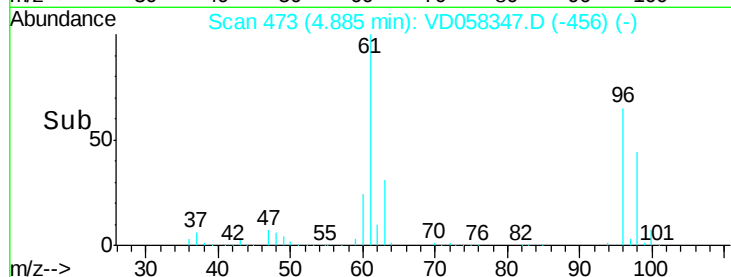
43	100		
61	3162.0	10.3	15.5#
70	34.2	5.7	8.5#



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: 10.04 ug/l

RT: 5.76 min Scan# 562

Delta R.T. 0.04 min

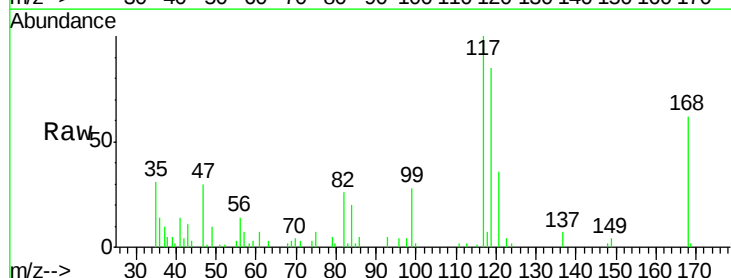
Lab File: VD058347.D

Acq: 23 Jun 2018 18:11

Tgt Ion: 117 Resp: 124454

Ion Ratio Lower Upper

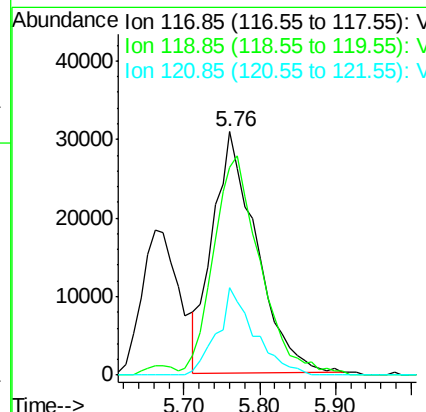
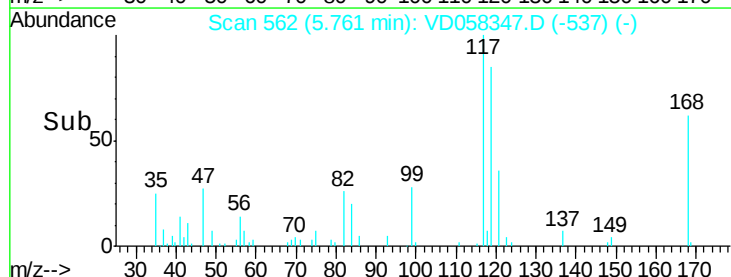
117	100		
119	85.5	78.8	118.2
121	36.1	25.0	37.6

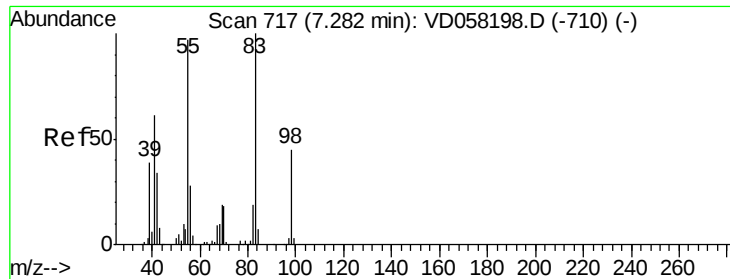


Abundance Ion 116.85 (116.55 to 117.55): V

Ion 118.85 (118.55 to 119.55): V

Ion 120.85 (120.55 to 121.55): V

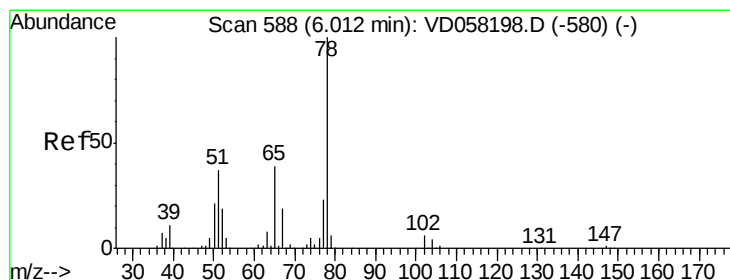
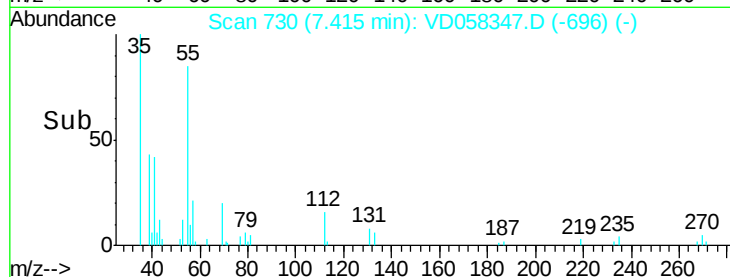
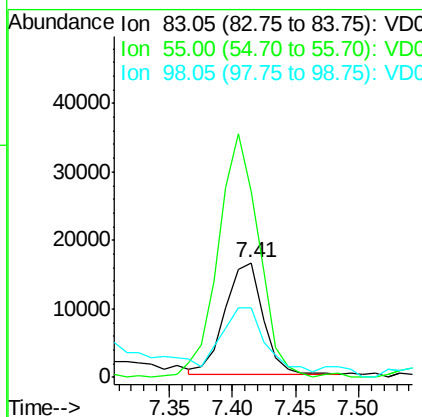
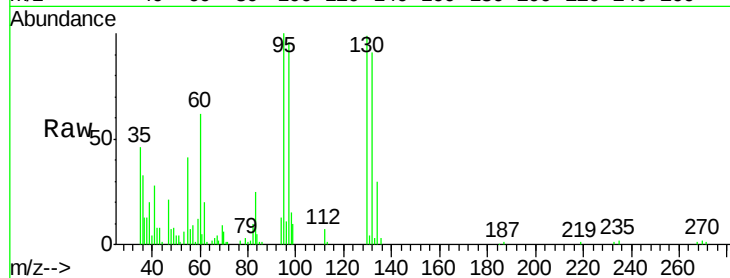




#39
Methvlcvclohexane
Concen: 2.76 ug/l
RT: 7.41 min Scan# 730
Delta R.T. 0.13 min
Lab File: VD058347.D
Acq: 23 Jun 2018 18:11

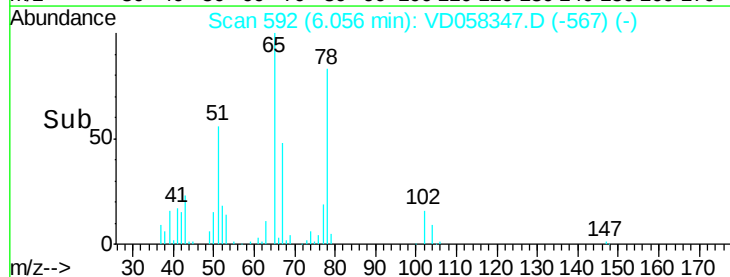
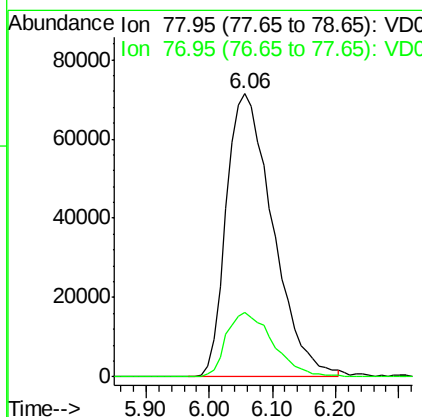
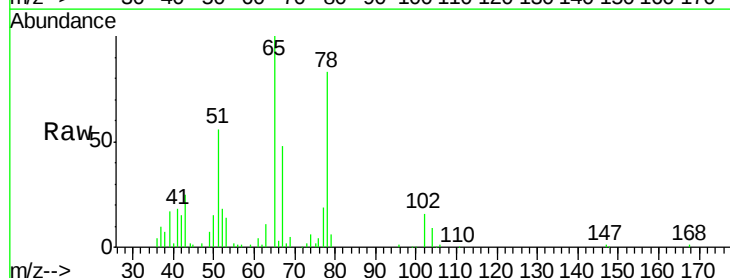
Instrument :
MSVOA_D
ClientSampleId :

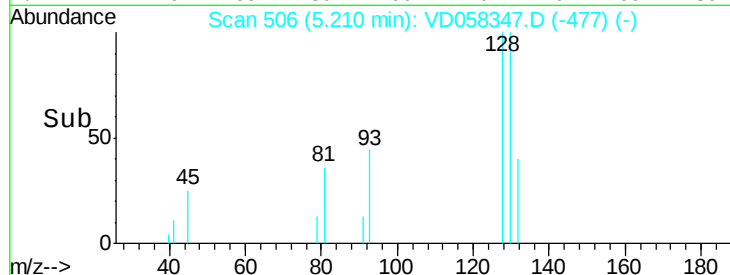
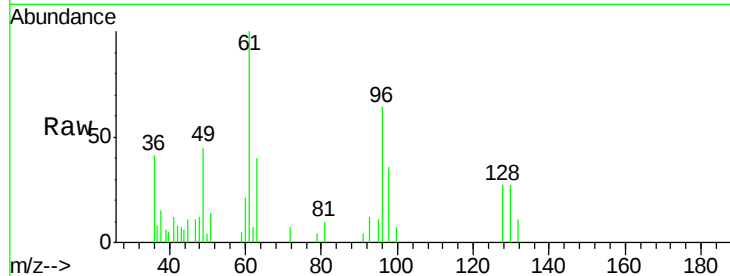
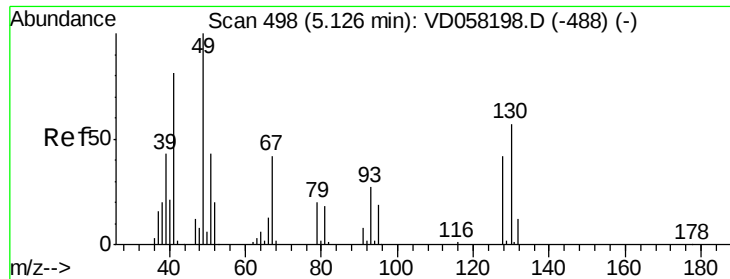
Tot Ion: 83 Resp: 33491
Ion Ratio Lower Upper
83 100
55 162.4 77.4 116.2#
98 60.6 35.9 53.9#



#40
Benzene
Concen: 12.29 ug/l
RT: 6.06 min Scan# 592
Delta R.T. 0.04 min
Lab File: VD058347.D
Acq: 23 Jun 2018 18:11

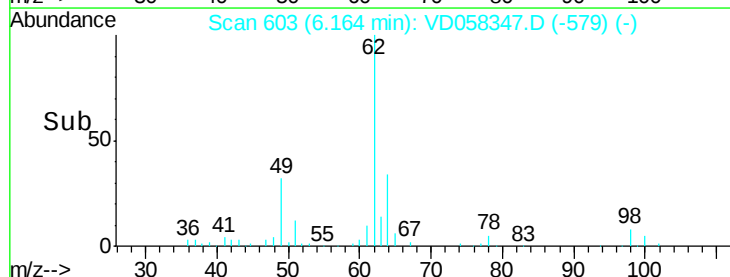
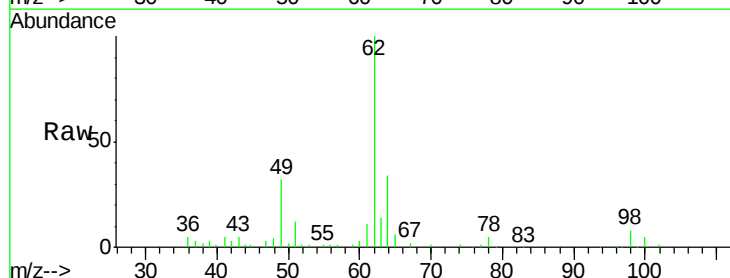
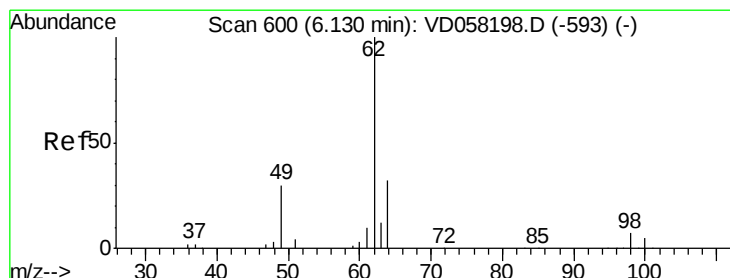
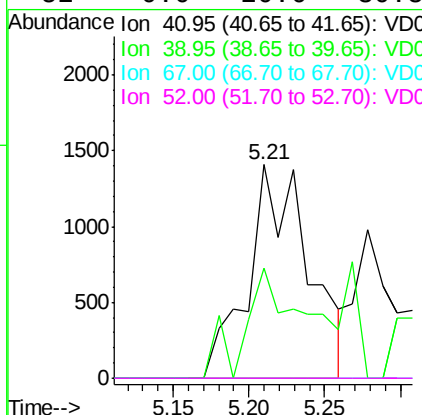
Tgt Ion: 78 Resp: 365367
Ion Ratio Lower Upper
78 100
77 22.6 18.5 27.7





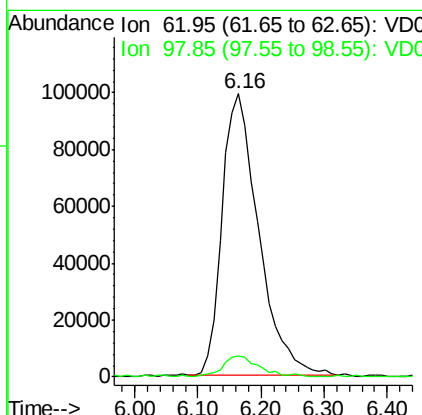
#41
Methacrylonitrile
Concen: 1.14 ug/l
RT: 5.21 min Scan# 506
Delta R.T. 0.08 min
Lab File: VD058347.D
Acq: 23 Jun 2018 18:11

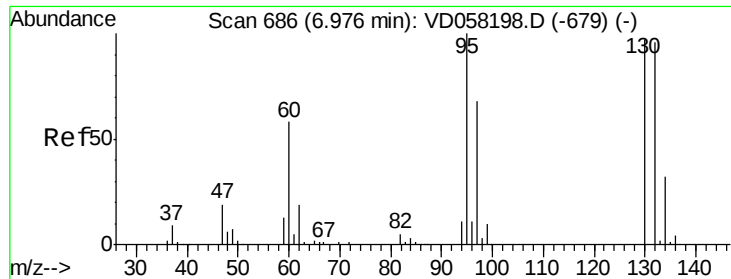
Tot Ion: 41 Resp: 3917
Ion Ratio Lower Upper
41 100
39 51.8 43.4 65.2
67 0.0 41.7 62.5#
52 0.0 20.6 30.8#



#42
1,2-Dichloroethane
Concen: 33.36 ug/l
RT: 6.16 min Scan# 603
Delta R.T. 0.03 min
Lab File: VD058347.D
Acq: 23 Jun 2018 18:11

Tgt Ion: 62 Resp: 399729
Ion Ratio Lower Upper
62 100
98 7.6 0.0 13.2





#44

Trichloroethene

Concen: 615.68 ug/l

RT: 6.99 min Scan# 687

Delta R.T. 0.01 min

Lab File: VD058347.D

Acq: 23 Jun 2018 18:11

Instrument :

MSVOA_D

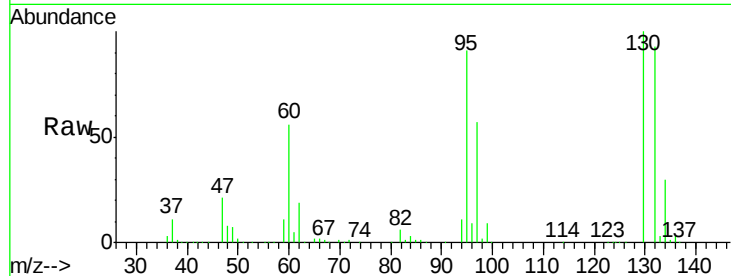
ClientSampleId :

Tot Ion:130 Resp: 5494622

Ion Ratio Lower Upper

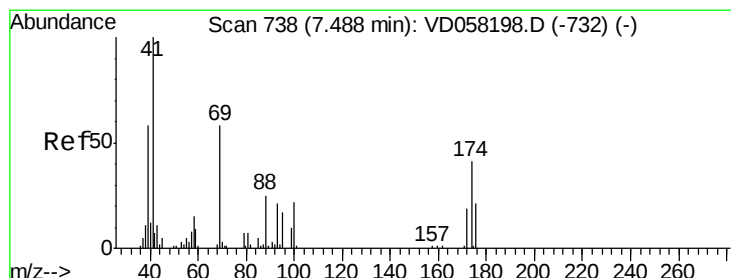
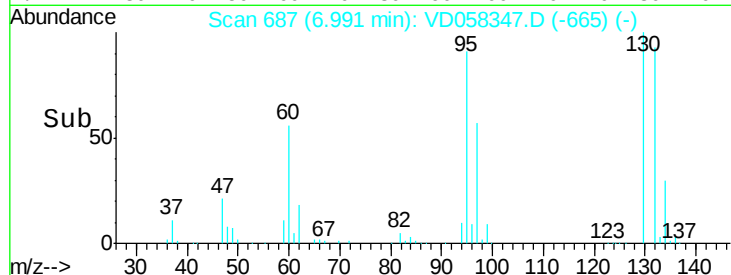
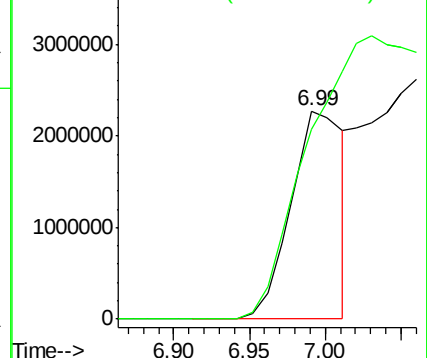
130 100

95 91.1 0.0 205.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VDC



#49

1,4-Dioxane

Concen: 14.00 ug/l

RT: 7.55 min Scan# 744

Delta R.T. 0.06 min

Lab File: VD058347.D

Acq: 23 Jun 2018 18:11

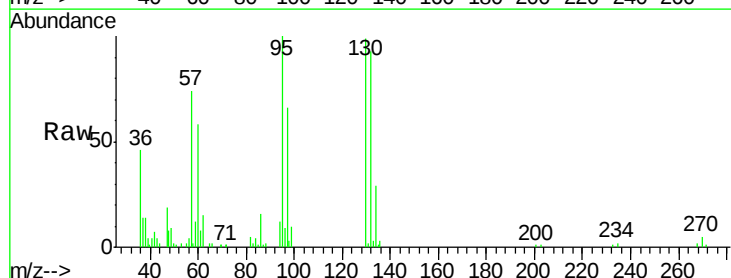
Tgt Ion: 88 Resp: 728

Ion Ratio Lower Upper

88 100

43 226.3 34.2 51.2#

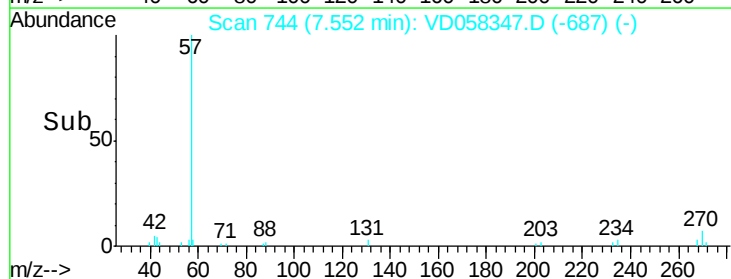
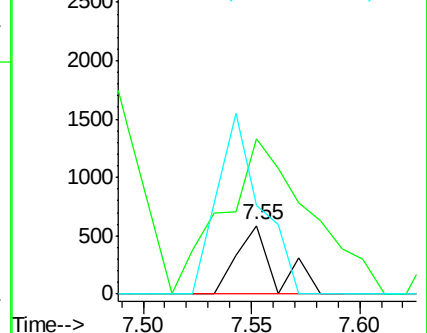
58 129.7 47.9 71.9#

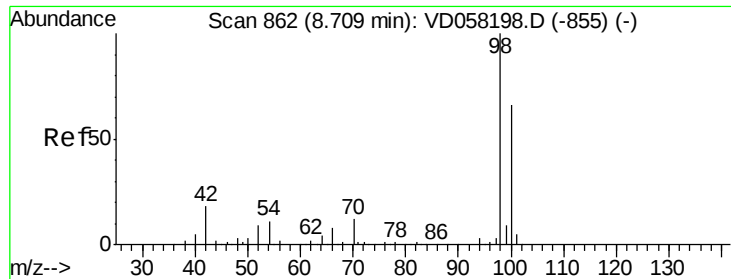


Abundance Ion 88.00 (87.70 to 88.70): VDC

Ion 43.05 (42.75 to 43.75): VDC

Ion 57.95 (57.65 to 58.65): VDC

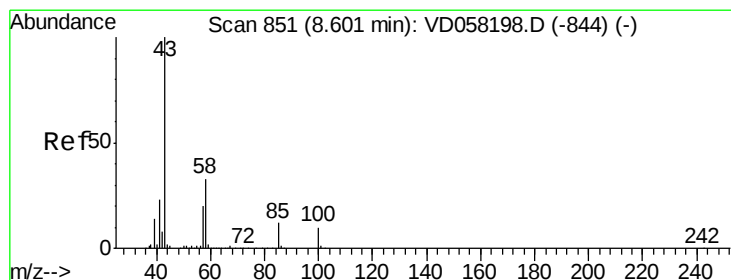
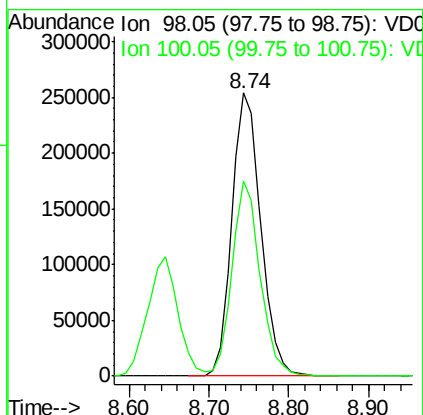
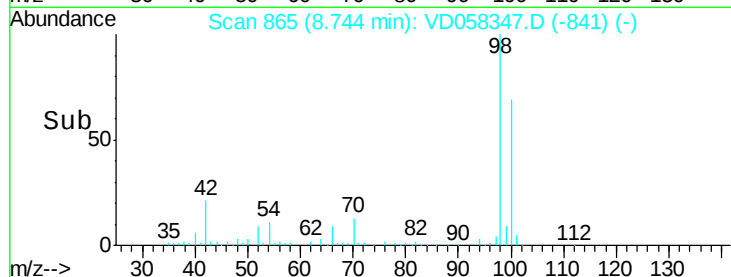
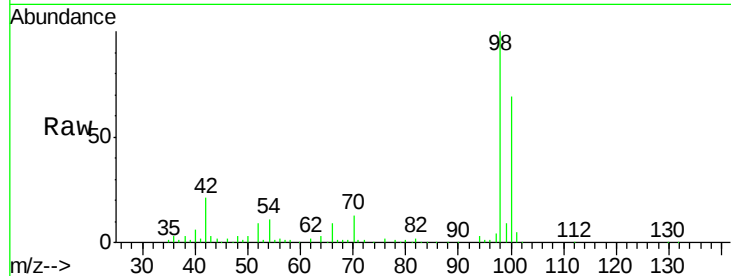




#50
Toluene-d8
Concen: 14.00 ug/l
RT: 8.74 min Scan# 865
Delta R.T. 0.03 min
Lab File: VD058347.D
Acq: 23 Jun 2018 18:11

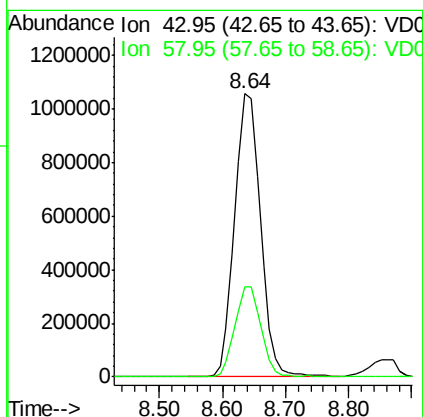
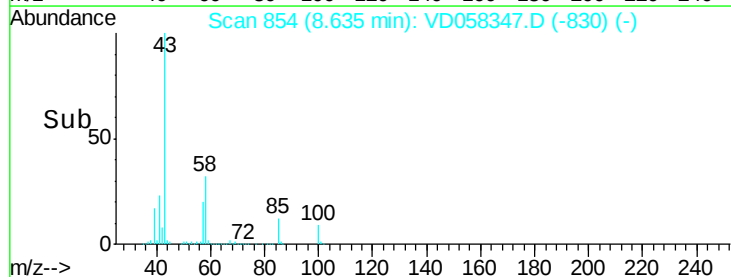
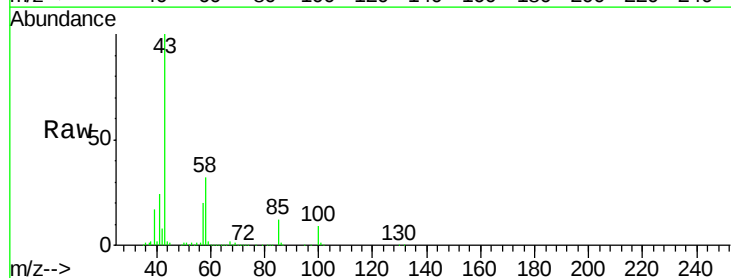
Instrument :
MSVOA_D
ClientSampleId :

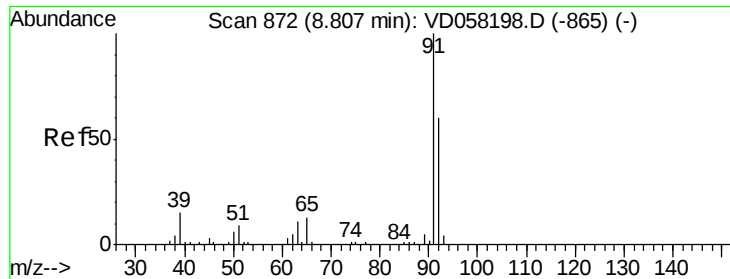
Tot Ion: 98 Resp: 641522
Ion Ratio Lower Upper
98 100
100 68.9 53.6 80.4



#51
4-Methyl-2-Pentanone
Concen: 485.64 ug/l
RT: 8.64 min Scan# 854
Delta R.T. 0.03 min
Lab File: VD058347.D
Acq: 23 Jun 2018 18:11

Tgt Ion: 43 Resp: 3002154
Ion Ratio Lower Upper
43 100
58 32.0 26.7 40.1





#52

Toluene

Concen: 734.29 ug/l

RT: 8.86 min Scan# 877

Delta R.T. 0.05 min

Lab File: VD058347.D

Acq: 23 Jun 2018 18:11

Instrument :

MSVOA_D

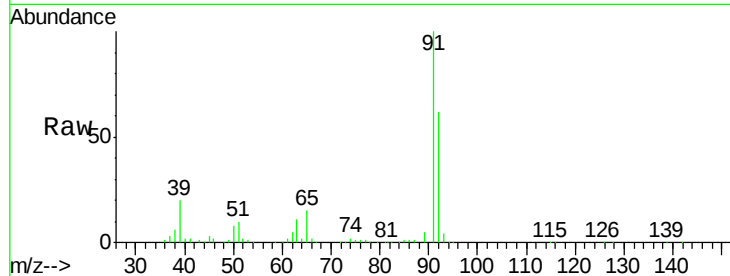
ClientSampleId :

Tot Ion: 92 Resp:12426575

Ion Ratio Lower Upper

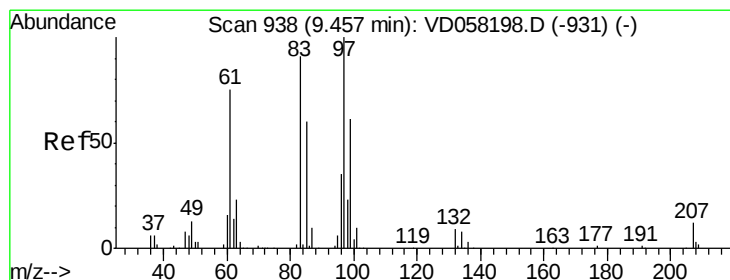
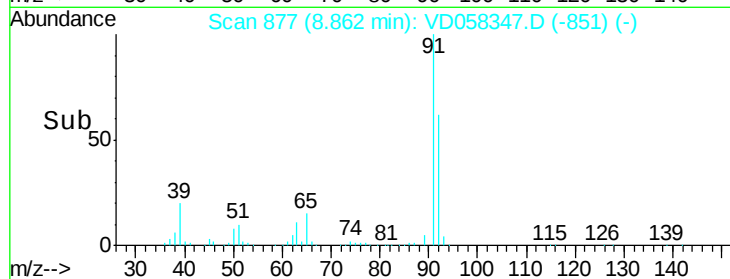
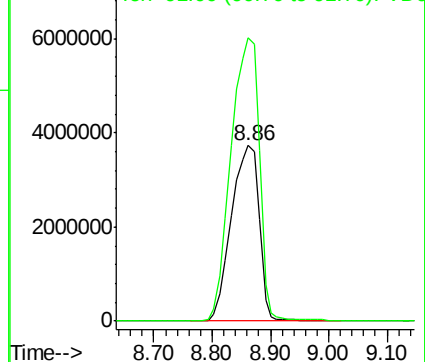
92 100

91 161.2 133.2 199.8



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC



#55

1,1,2-Trichloroethane

Concen: 57.97 ug/l

RT: 9.48 min Scan# 940

Delta R.T. 0.02 min

Lab File: VD058347.D

Acq: 23 Jun 2018 18:11

Tgt Ion: 97 Resp: 347065

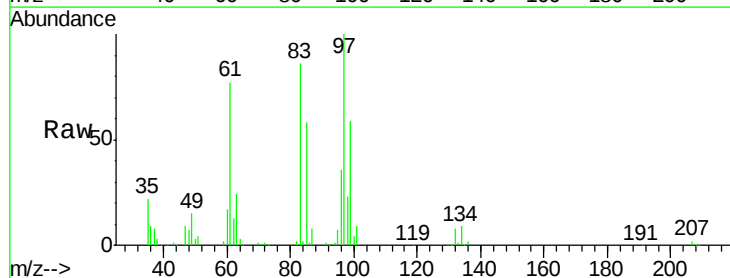
Ion Ratio Lower Upper

97 100

83 86.1 72.9 109.3

85 57.9 48.2 72.4

99 59.0 48.9 73.3

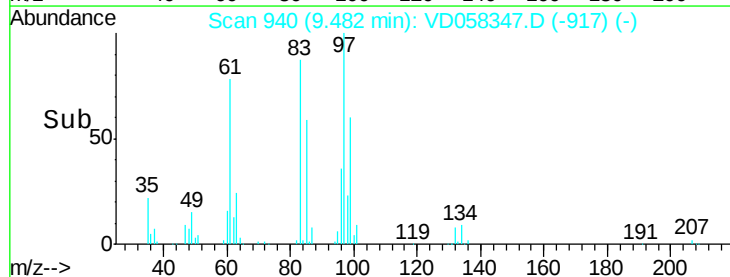
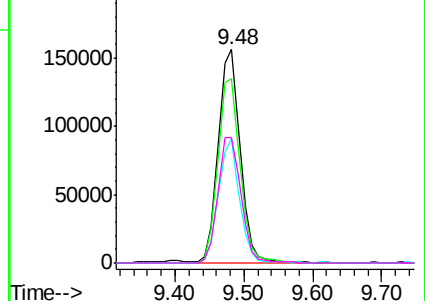


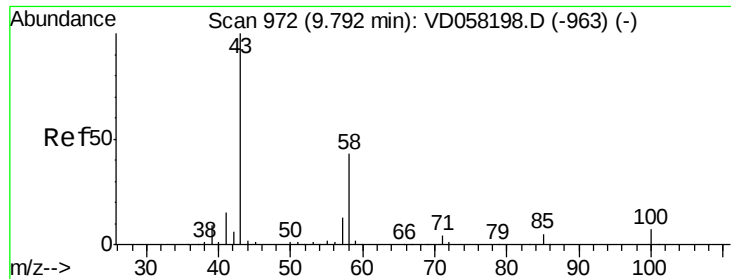
Abundance Ion 96.85 (96.55 to 97.55): VDC

Ion 82.95 (82.65 to 83.65): VDC

Ion 84.95 (84.65 to 85.65): VDC

Ion 98.85 (98.55 to 99.55): VDC

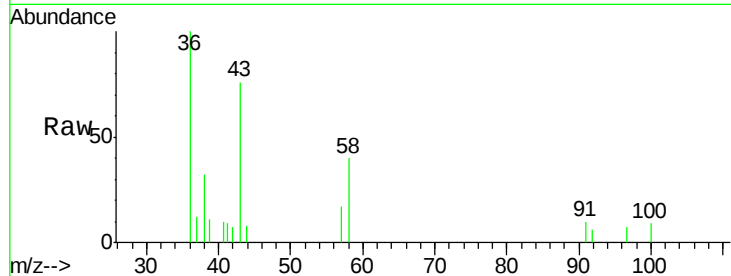




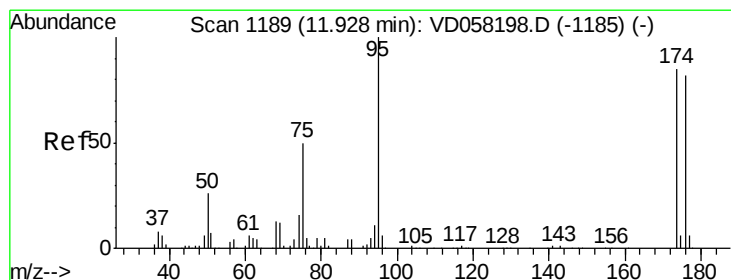
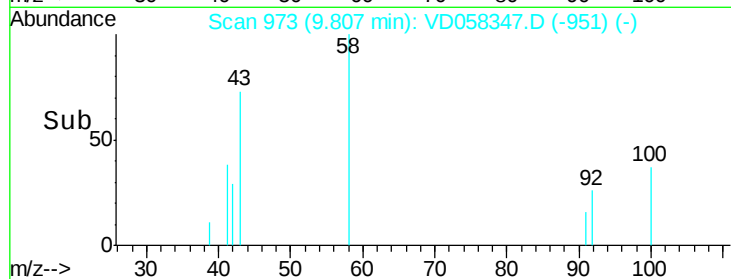
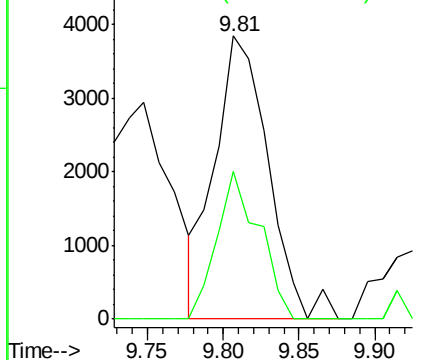
#59
2-Hexanone
Concen: 2.11 ug/l
RT: 9.81 min Scan# 973
Delta R.T. 0.01 min
Lab File: VD058347.D
Acq: 23 Jun 2018 18:11

Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 43 Resp: 9420
Ion Ratio Lower Upper
43 100
58 52.3 21.7 65.1

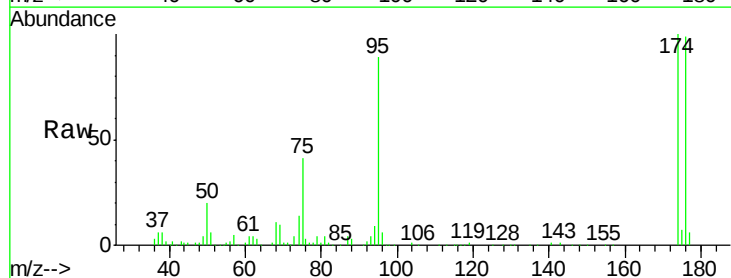


Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 57.95 (57.65 to 58.65): VDC

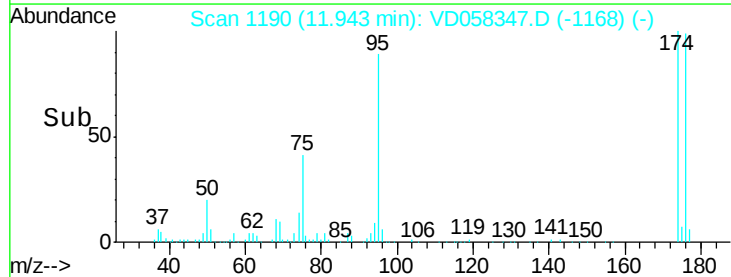
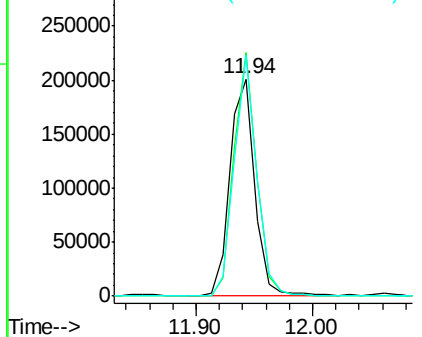


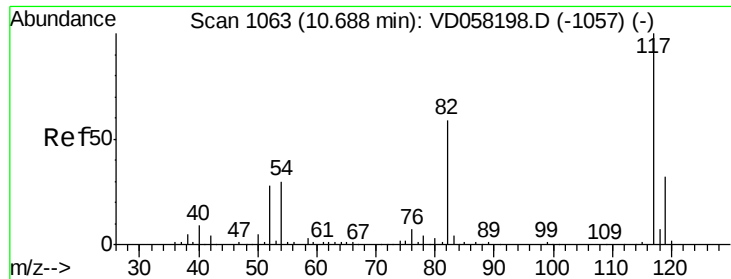
#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 11.94 min Scan# 1190
Delta R.T. 0.01 min
Lab File: VD058347.D
Acq: 23 Jun 2018 18:11

Tgt Ion: 95 Resp: 296221
Ion Ratio Lower Upper
95 100
174 112.1 0.0 170.2
176 110.7 0.0 164.6



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

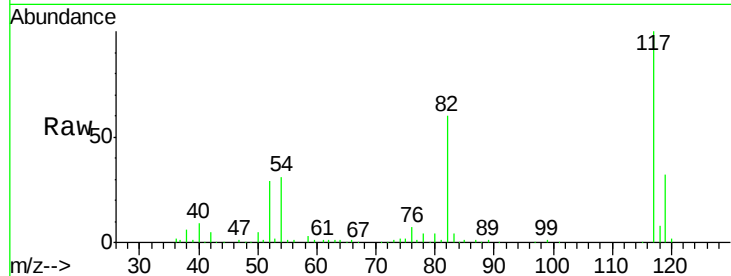




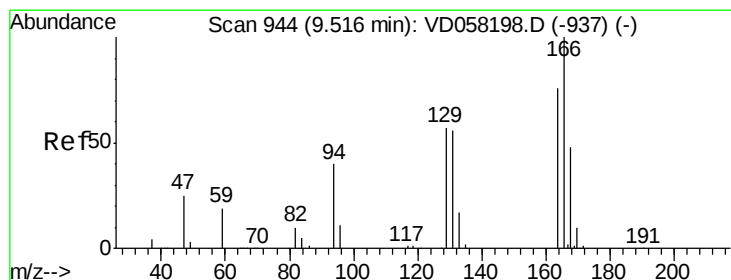
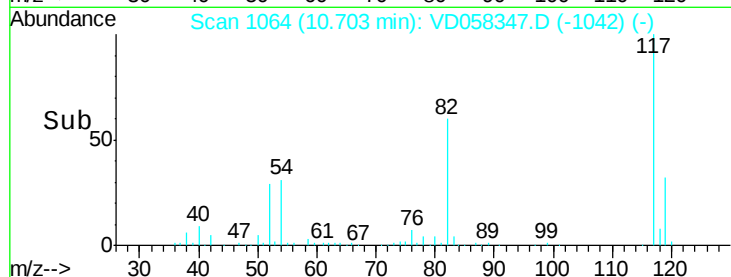
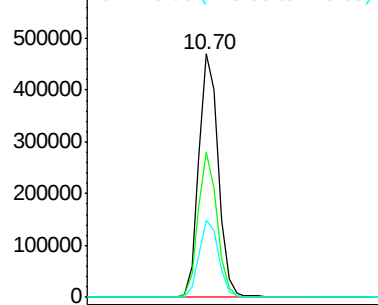
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.70 min Scan# 1064
Delta R.T. 0.01 min
Lab File: VD058347.D
Acq: 23 Jun 2018 18:11

Instrument :
MSVOA_D
ClientSampled :

Tot Ion:117 Resp: 836927
Ion Ratio Lower Upper
117 100
82 59.6 47.0 70.6
119 31.6 25.3 37.9

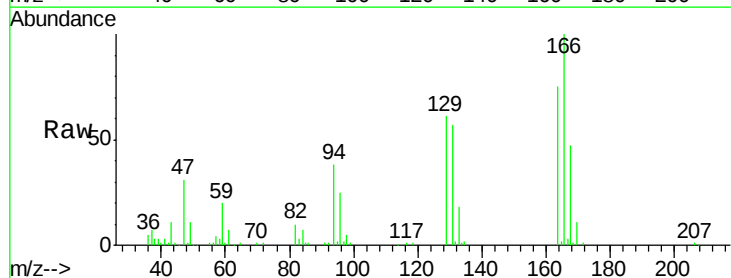


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

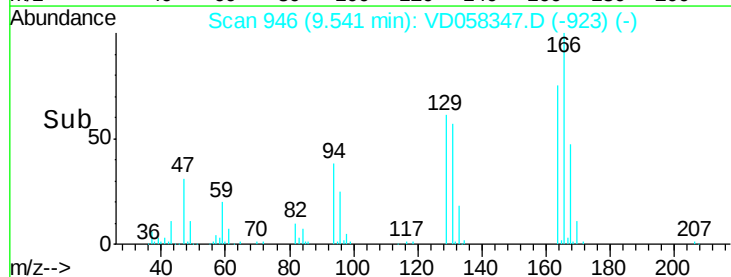
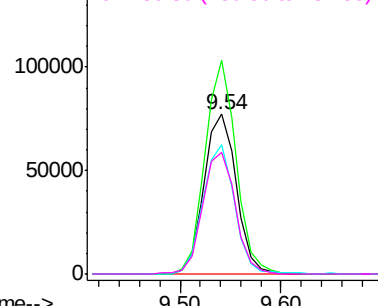


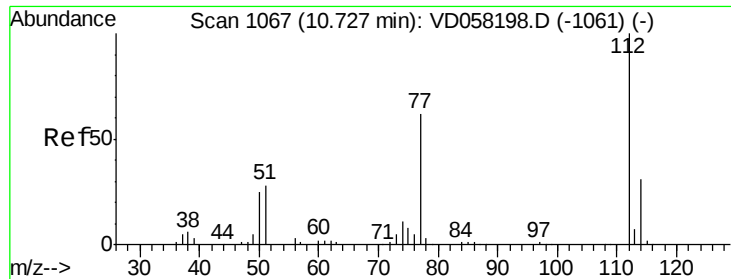
#64
Tetrachloroethene
Concen: 24.41 ug/l
RT: 9.54 min Scan# 946
Delta R.T. 0.02 min
Lab File: VD058347.D
Acq: 23 Jun 2018 18:11

Tgt Ion:164 Resp: 171924
Ion Ratio Lower Upper
164 100
166 133.8 105.4 158.0
129 81.1 59.6 89.4
131 76.6 59.4 89.2



Abundance Ion 163.85 (163.55 to 164.55): V
Ion 165.85 (165.55 to 166.55): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V





#65

Chlorobenzene

Concen: 5.46 ug/l

RT: 10.74 min Scan# 1068

Delta R.T. 0.01 min

Lab File: VD058347.D

Acq: 23 Jun 2018 18:11

Instrument :

MSVOA_D

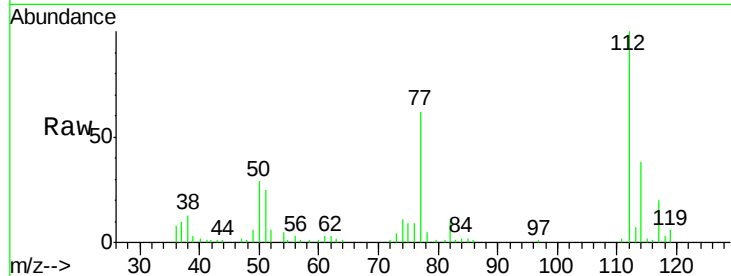
ClientSampleId :

Tot Ion:112 Resp: 85540

Ion Ratio Lower Upper

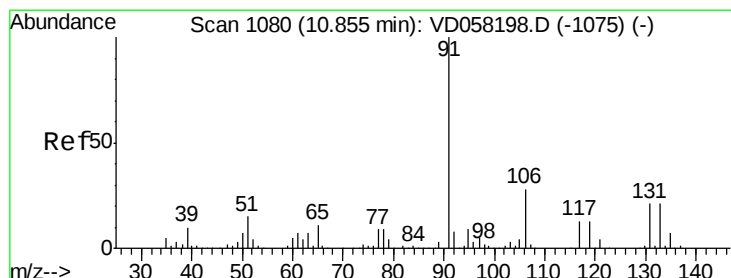
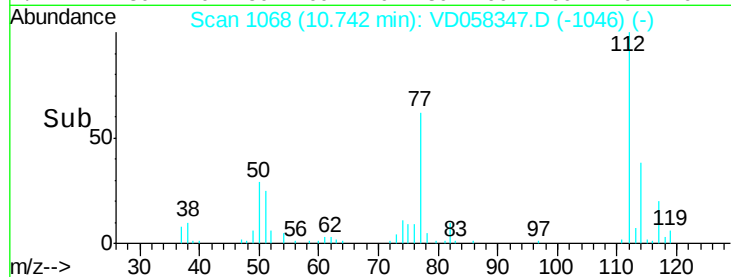
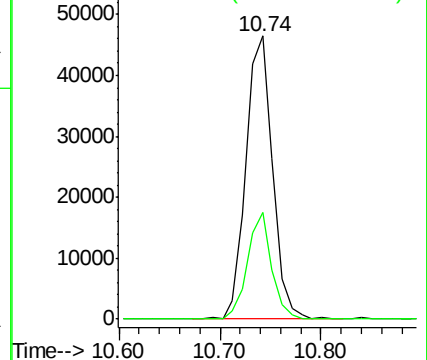
112 100

114 37.6 25.0 37.4#



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 114.00 (113.70 to 114.70): V



#67

Ethyl Benzene

Concen: 8.53 ug/l

RT: 10.87 min Scan# 1081

Delta R.T. 0.01 min

Lab File: VD058347.D

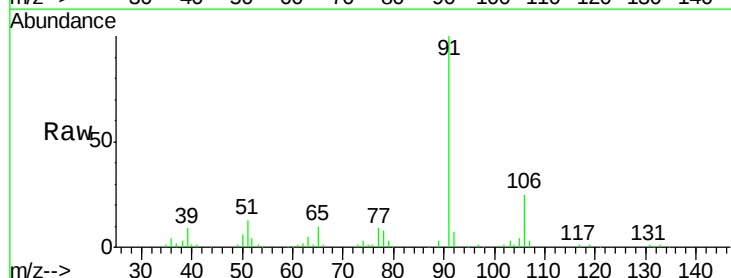
Acq: 23 Jun 2018 18:11

Tgt Ion: 91 Resp: 235637

Ion Ratio Lower Upper

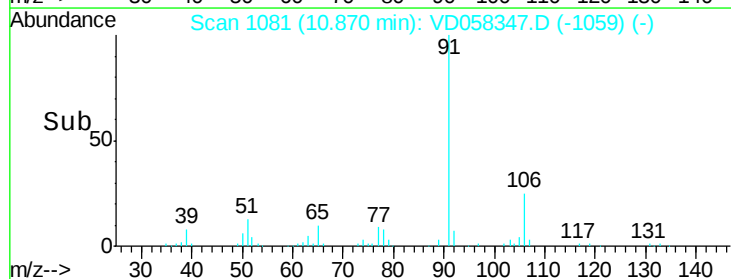
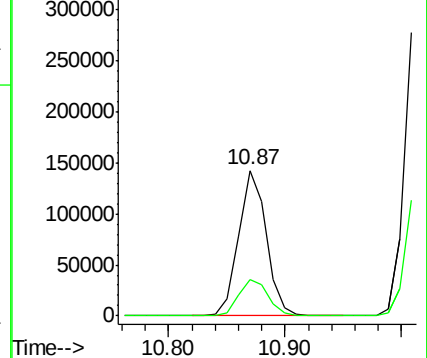
91 100

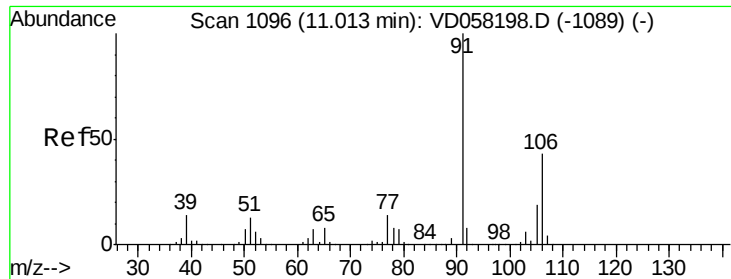
106 25.0 22.0 33.0



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 106.05 (105.75 to 106.75): V

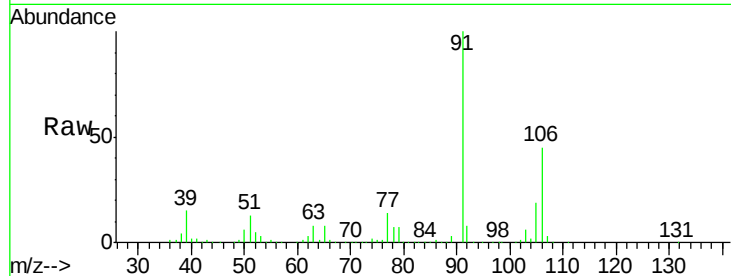




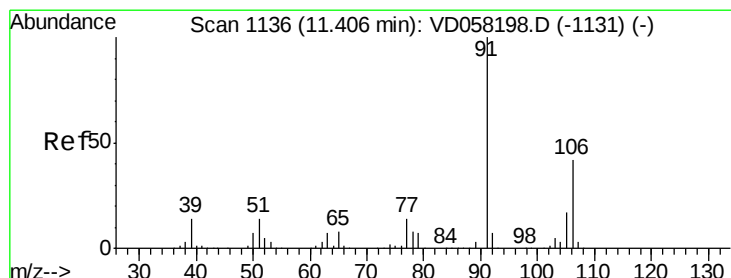
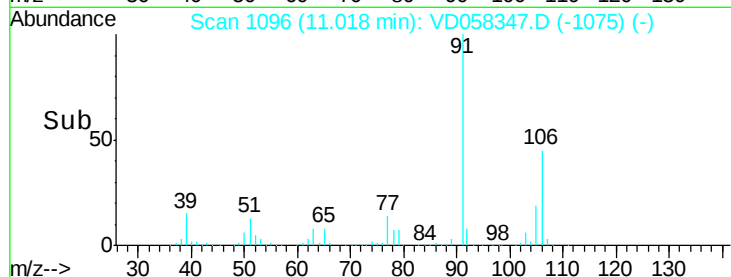
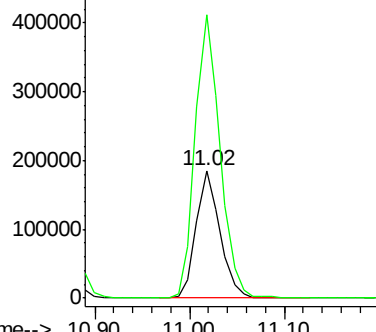
#68
m/p-Xylenes
Concen: 35.13 ug/l
RT: 11.02 min Scan# 1096
Delta R.T. 0.01 min
Lab File: VD058347.D
Acq: 23 Jun 2018 18:11

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:106 Resp: 323820
Ion Ratio Lower Upper
106 100
91 222.4 185.0 277.6

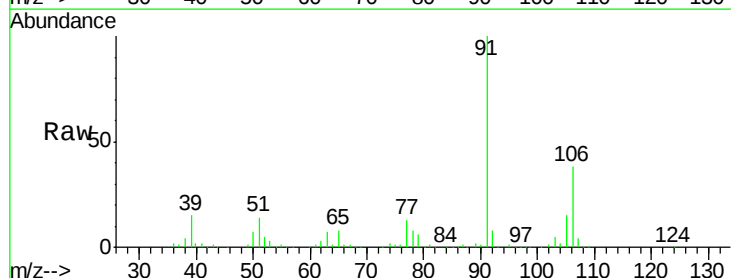


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): VDC

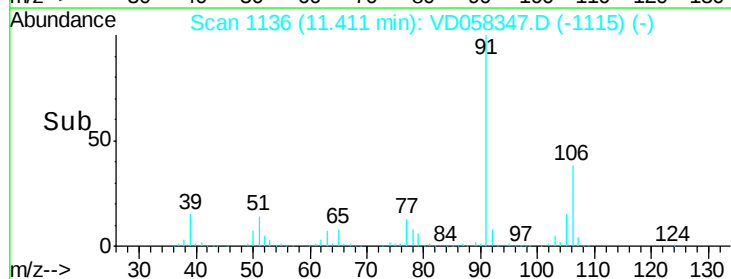
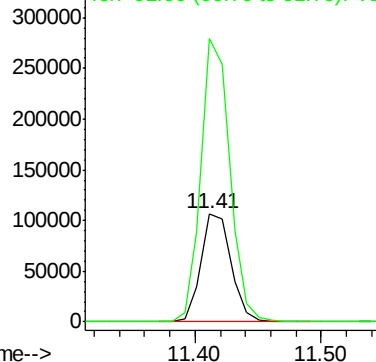


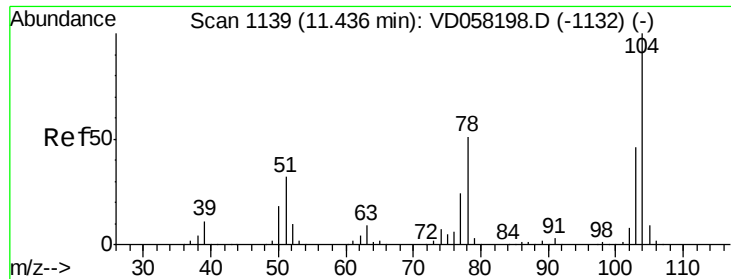
#69
o-Xylene
Concen: 20.06 ug/l
RT: 11.41 min Scan# 1136
Delta R.T. 0.01 min
Lab File: VD058347.D
Acq: 23 Jun 2018 18:11

Tgt Ion:106 Resp: 176579
Ion Ratio Lower Upper
106 100
91 260.8 120.2 360.6



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





#70

Stvrene

Concen: 30.40 ug/l

RT: 11.44 min Scan# 1139

Delta R.T. 0.01 min

Lab File: VD058347.D

Acq: 23 Jun 2018 18:11

Instrument :

MSVOA_D

ClientSampled :

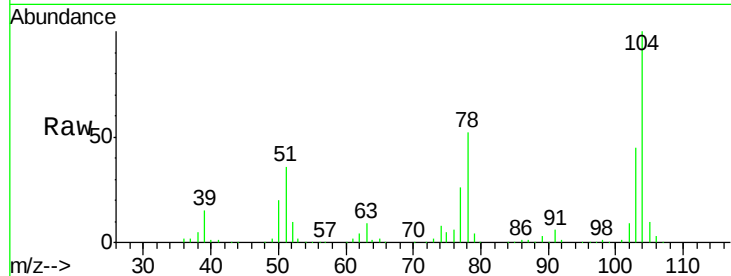
Tot Ion:104 Resp: 456709

Ion Ratio Lower Upper

104 100

78 52.1 40.8 61.2

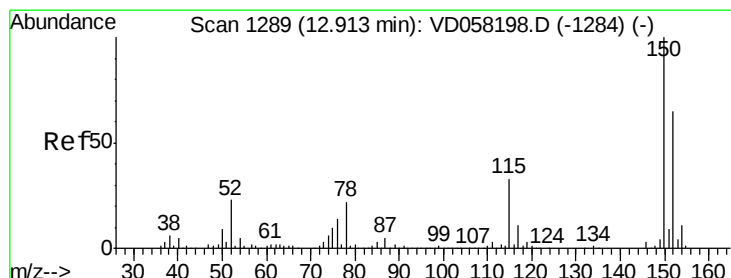
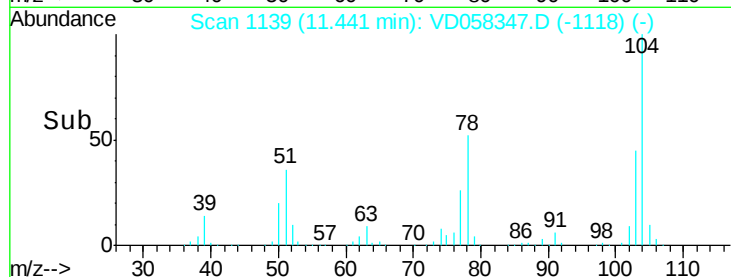
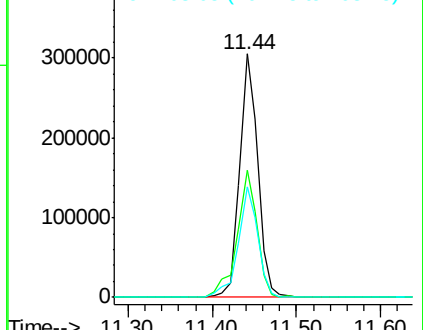
103 45.2 37.0 55.6



Abundance Ion 104.05 (103.75 to 104.75): V

Ion 77.95 (77.65 to 78.65): V

Ion 103.05 (102.75 to 103.75): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.92 min Scan# 1289

Delta R.T. 0.01 min

Lab File: VD058347.D

Acq: 23 Jun 2018 18:11

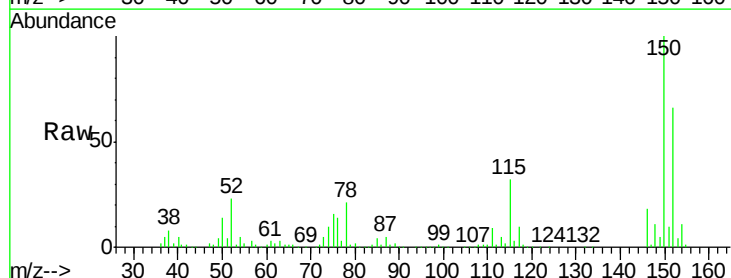
Tgt Ion:152 Resp: 467328

Ion Ratio Lower Upper

152 100

115 48.7 25.1 75.3

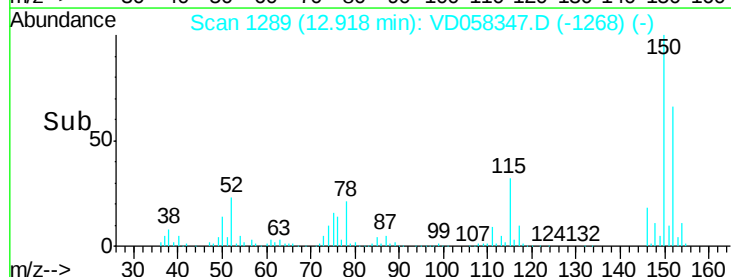
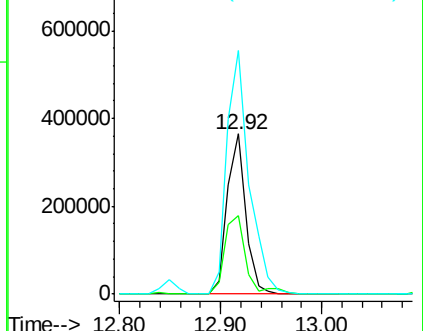
150 152.3 0.0 308.8

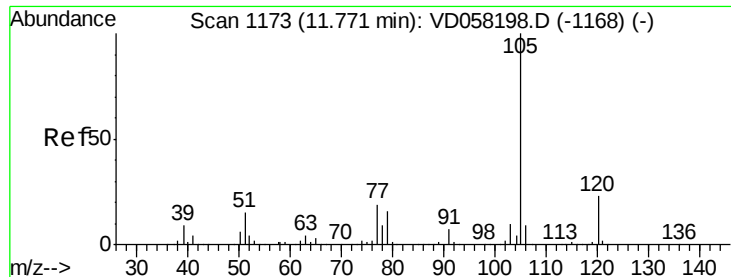


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 115.00 (114.70 to 115.70): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 1.50 ug/l

RT: 11.79 min Scan# 1174

Delta R.T. 0.01 min

Lab File: VD058347.D

Acq: 23 Jun 2018 18:11

Instrument :

MSVOA_D

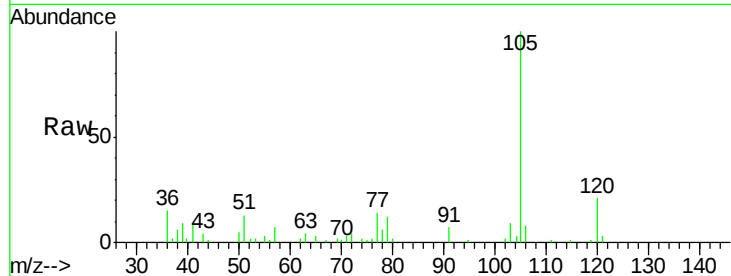
ClientSampleId :

Tot Ion:105 Resp: 42008

Ion Ratio Lower Upper

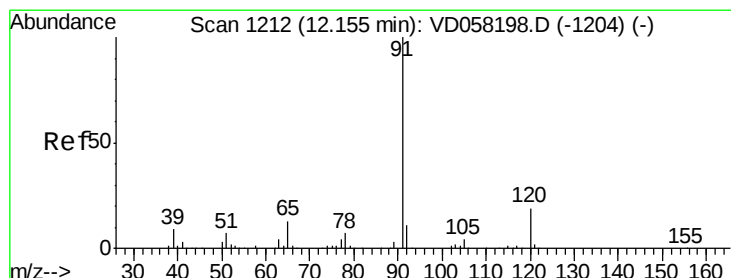
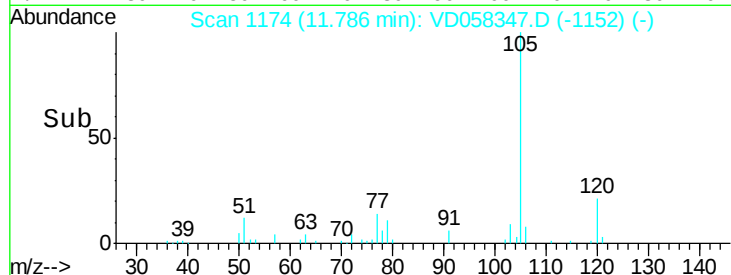
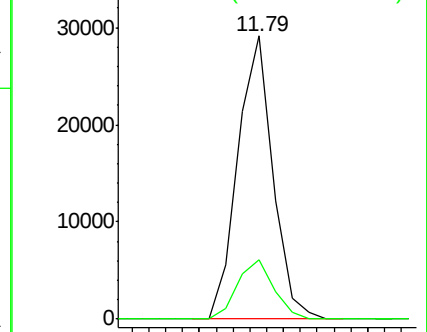
105 100

120 20.9 11.6 34.8



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V



#78

n-propylbenzene

Concen: 2.70 ug/l

RT: 12.16 min Scan# 1212

Delta R.T. 0.01 min

Lab File: VD058347.D

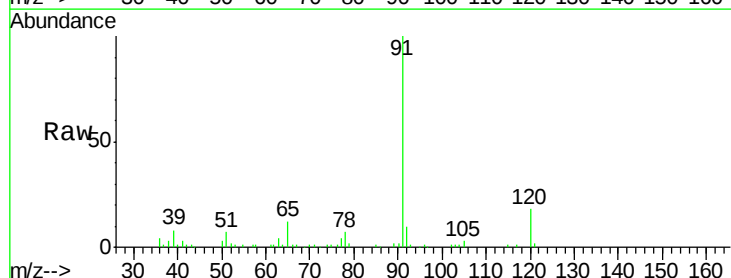
Acq: 23 Jun 2018 18:11

Tgt Ion: 91 Resp: 97431

Ion Ratio Lower Upper

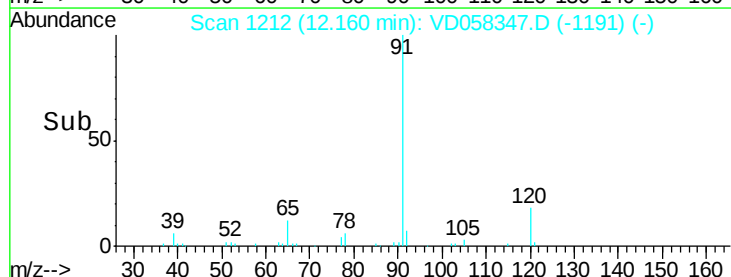
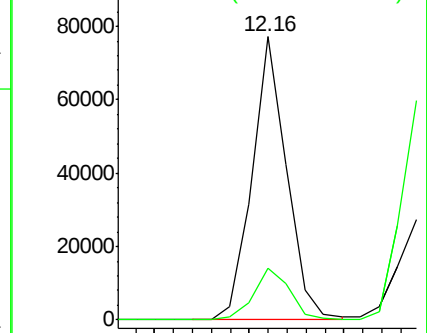
91 100

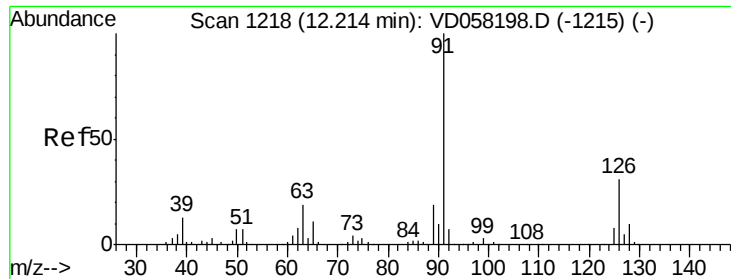
120 18.2 9.7 29.1



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.05 (119.75 to 120.75): V





#79

2-Chlorotoluene

Concen: 2.46 ug/l

RT: 12.24 min Scan# 1220

Delta R.T. 0.02 min

Lab File: VD058347.D

Acq: 23 Jun 2018 18:11

Instrument :

MSVOA_D

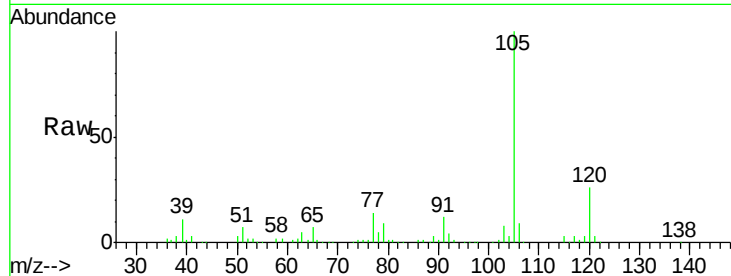
ClientSampled :

Tot Ion: 91 Resp: 50774

Ion Ratio Lower Upper

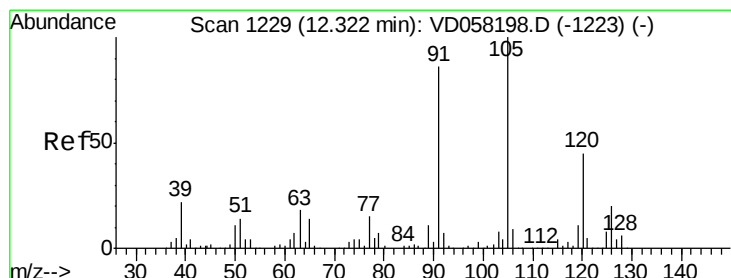
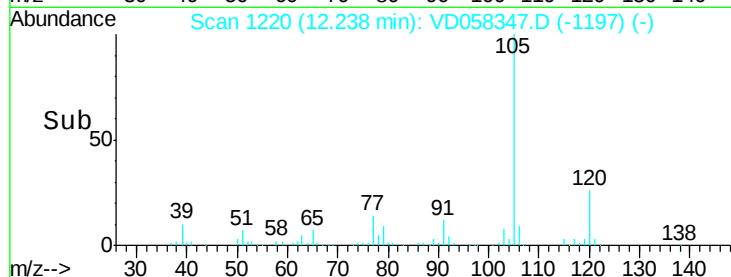
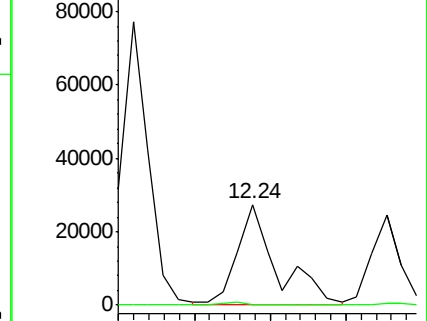
91 100

126 0.0 14.9 44.5#



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 125.95 (125.65 to 126.65): V



#80

1,3,5-Trimethylbenzene

Concen: 12.25 ug/l

RT: 12.33 min Scan# 1229

Delta R.T. 0.01 min

Lab File: VD058347.D

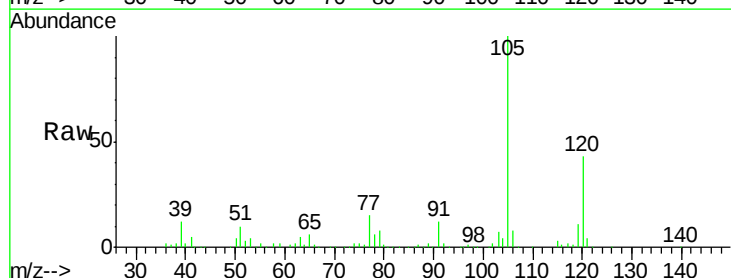
Acq: 23 Jun 2018 18:11

Tgt Ion: 105 Resp: 267099

Ion Ratio Lower Upper

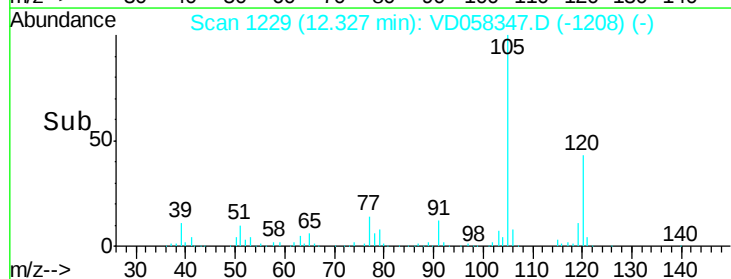
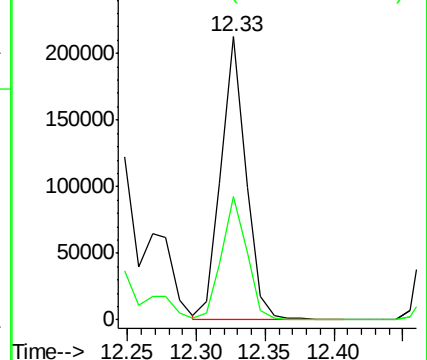
105 100

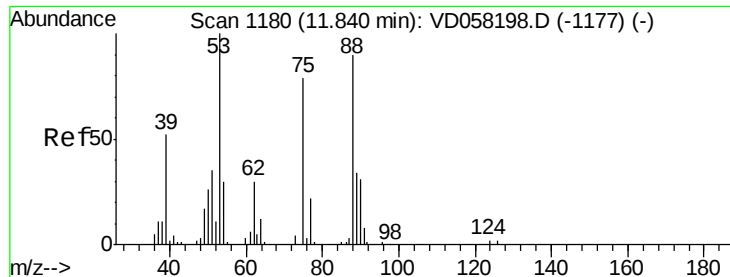
120 43.5 22.5 67.5



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V





#81

trans-1,4-Dichloro-2-butene

Concen: 87.23 ug/l

RT: 11.94 min Scan# 1190

Delta R.T. 0.10 min

Lab File: VD058347.D

Acq: 23 Jun 2018 18:11

Instrument :

MSVOA_D

ClientSampleId :

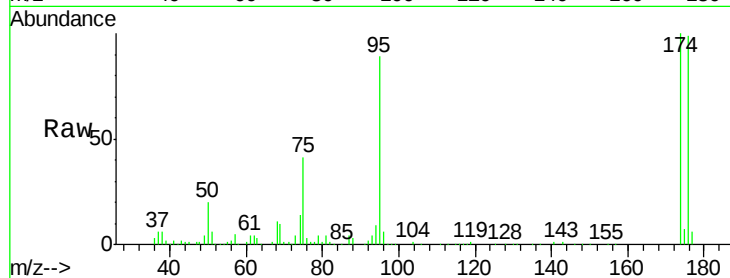
Tot Ion: 75 Resp: 145161

Ion Ratio Lower Upper

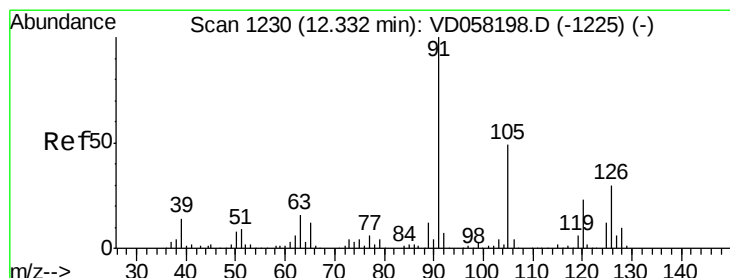
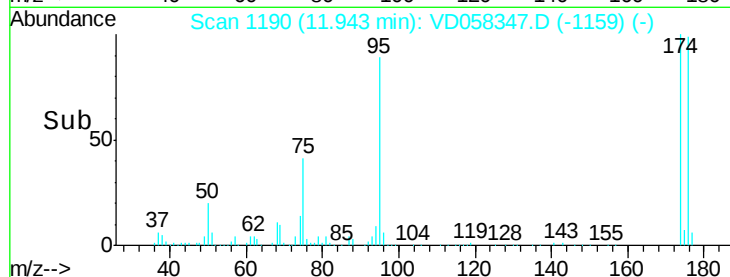
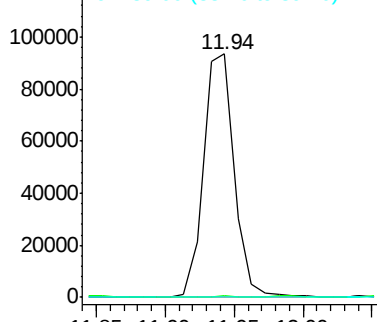
75 100

53 0.6 100.8 151.2#

89 0.0 34.6 52.0#



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



#82

4-Chlorotoluene

Concen: Below Cal

RT: 12.33 min Scan# 1229

Delta R.T. -0.00 min

Lab File: VD058347.D

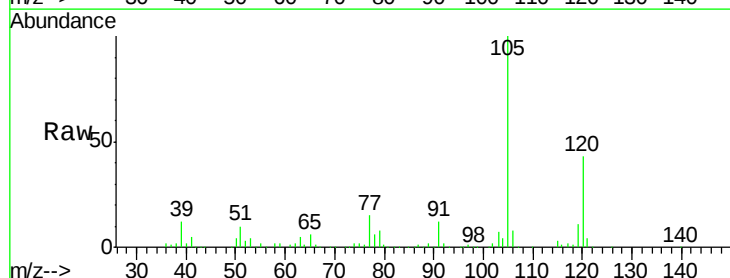
Acq: 23 Jun 2018 18:11

Tgt Ion: 91 Resp: 32849

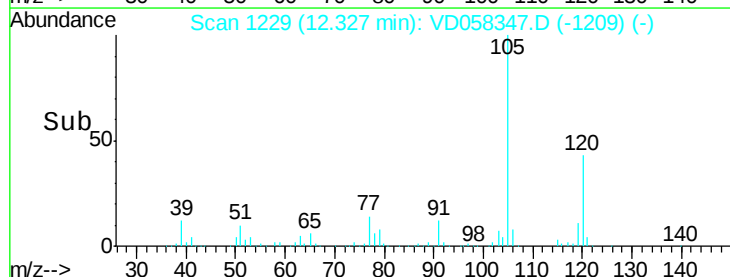
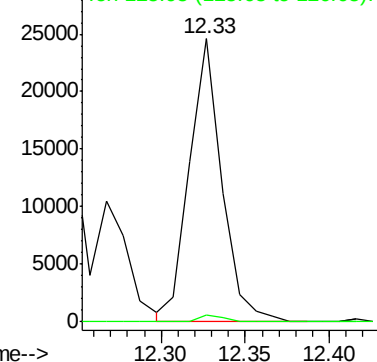
Ion Ratio Lower Upper

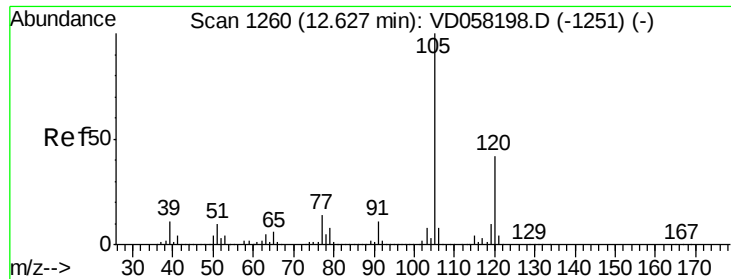
91 100

126 2.5 14.9 44.9#



Abundance Ion 91.00 (90.70 to 91.70): VDC
Ion 125.95 (125.65 to 126.65): V

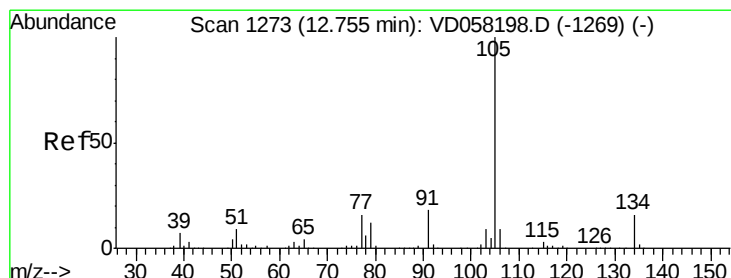
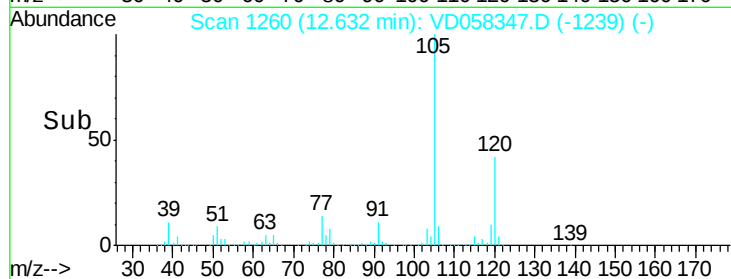
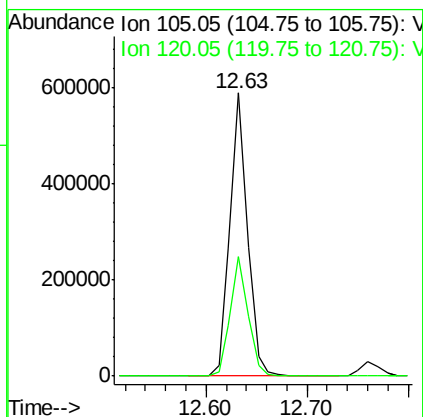
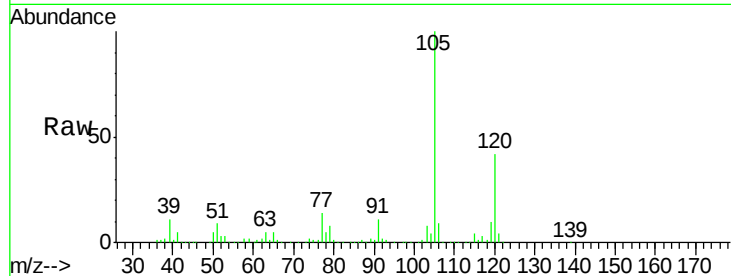




#84
 1,2,4-Trimethylbenzene
 Concen: 30.09 ug/l
 RT: 12.63 min Scan# 1260
 Delta R.T. 0.01 min
 Lab File: VD058347.D
 Acq: 23 Jun 2018 18:11

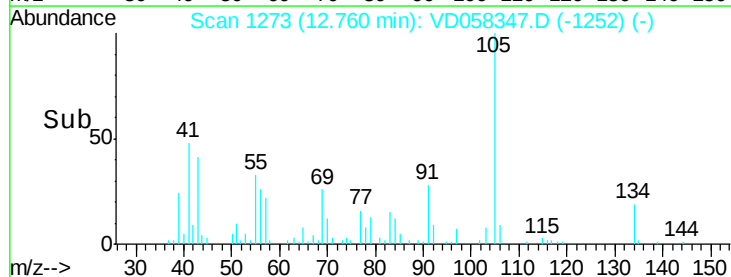
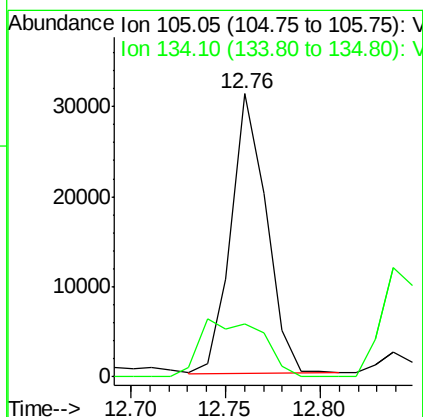
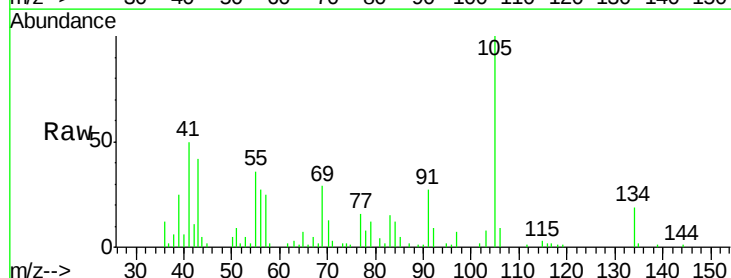
Instrument :
 MSVOA_D
 ClientSampled :

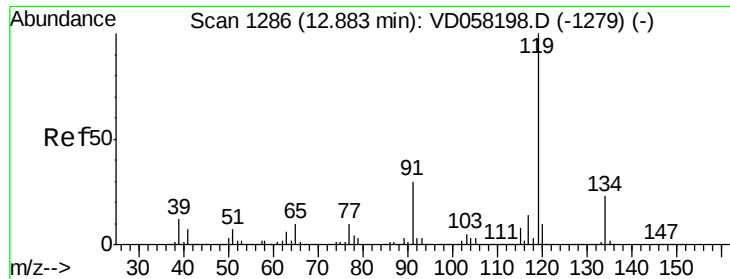
Tot Ion:105 Resp: 713173
 Ion Ratio Lower Upper
 105 100
 120 42.0 20.8 62.4



#85
 sec-Butylbenzene
 Concen: 1.36 ug/l
 RT: 12.76 min Scan# 1273
 Delta R.T. 0.01 min
 Lab File: VD058347.D
 Acq: 23 Jun 2018 18:11

Tgt Ion:105 Resp: 40056
 Ion Ratio Lower Upper
 105 100
 134 18.7 8.1 24.3

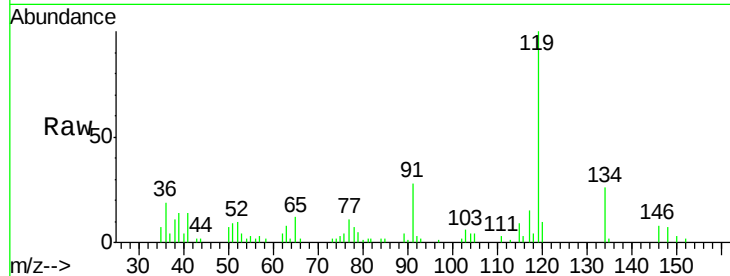




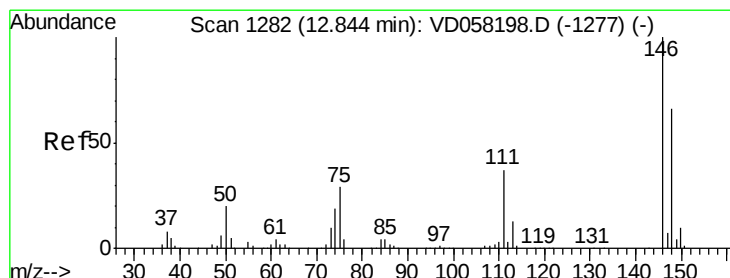
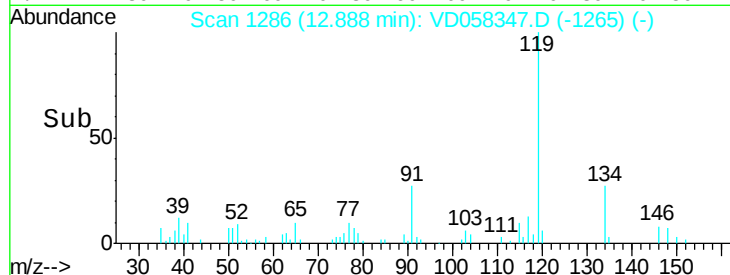
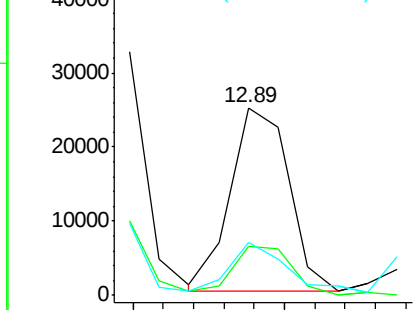
#86
 p-Isopropyltoluene
 Concen: 1.41 ug/l
 RT: 12.89 min Scan# 1286
 Delta R.T. 0.01 min
 Lab File: VD058347.D
 Acq: 23 Jun 2018 18:11

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion:119 Resp: 33495
 Ion Ratio Lower Upper
 119 100
 134 26.0 11.6 34.8
 91 28.2 15.0 45.1

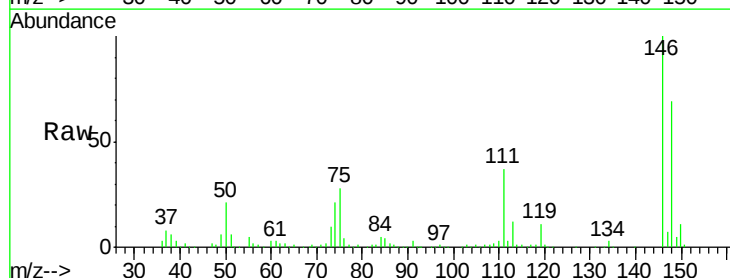


Abundance Ion 119.05 (118.75 to 119.75): V
 Ion 134.10 (133.80 to 134.80): V
 Ion 91.00 (90.70 to 91.70): V

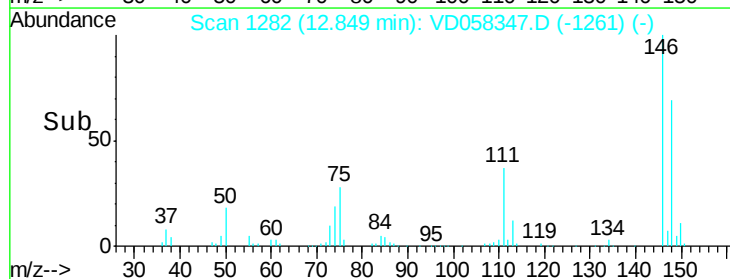
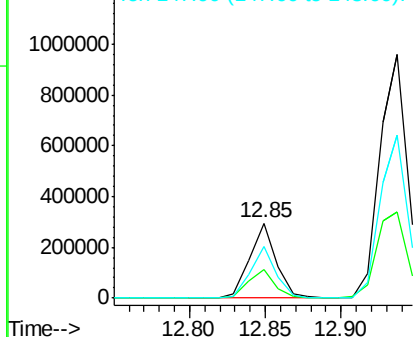


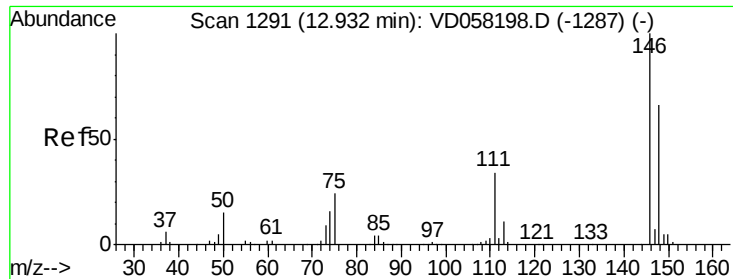
#87
 1,3-Dichlorobenzene
 Concen: 24.67 ug/l
 RT: 12.85 min Scan# 1282
 Delta R.T. 0.01 min
 Lab File: VD058347.D
 Acq: 23 Jun 2018 18:11

Tgt Ion:146 Resp: 358955
 Ion Ratio Lower Upper
 146 100
 111 37.5 18.4 55.0
 148 69.2 32.8 98.4



Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V





#88

1,4-Dichlorobenzene

Concen: 87.48 ug/l

RT: 12.94 min Scan# 1291

Delta R.T. 0.01 min

Lab File: VD058347.D

Acq: 23 Jun 2018 18:11

Instrument :

MSVOA_D

ClientSampled :

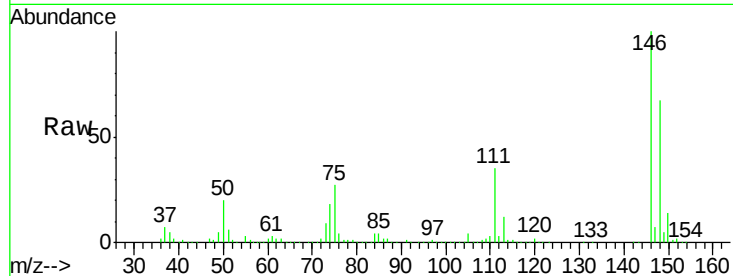
Tot Ion:146 Resp: 1242800

Ion Ratio Lower Upper

146 100

111 35.3 17.2 51.5

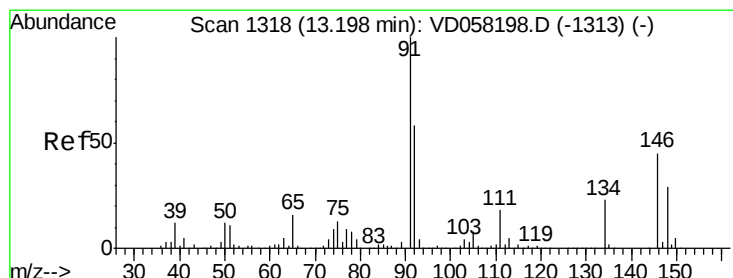
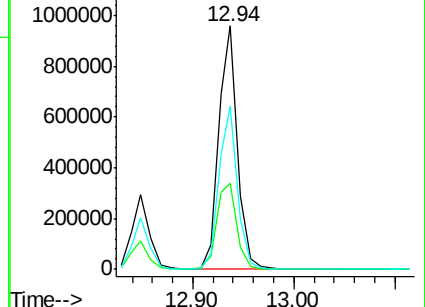
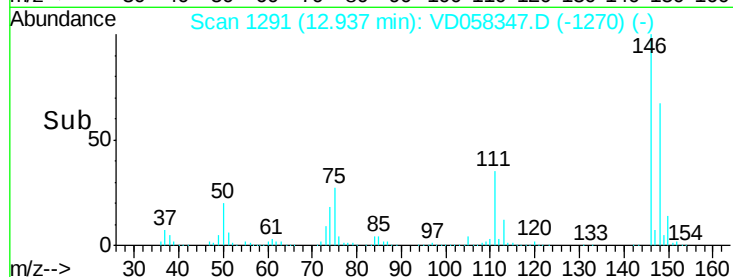
148 66.7 33.1 99.3



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#89

n-Butylbenzene

Concen: 1.62 ug/l

RT: 13.18 min Scan# 1316

Delta R.T. -0.01 min

Lab File: VD058347.D

Acq: 23 Jun 2018 18:11

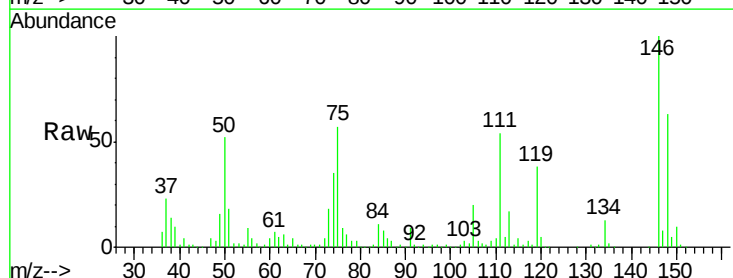
Tgt Ion: 91 Resp: 40571

Ion Ratio Lower Upper

91 100

92 13.5 29.2 87.6#

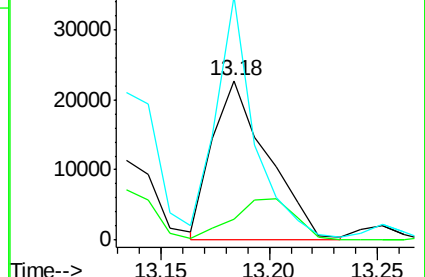
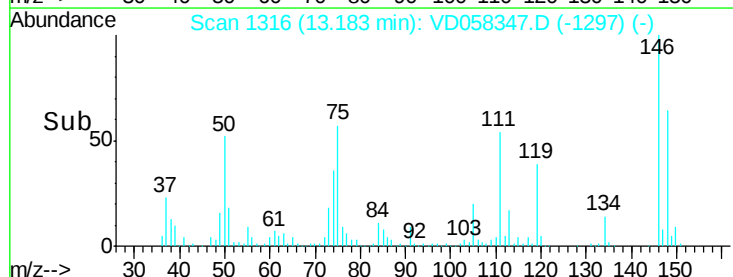
134 153.0 11.3 33.8#

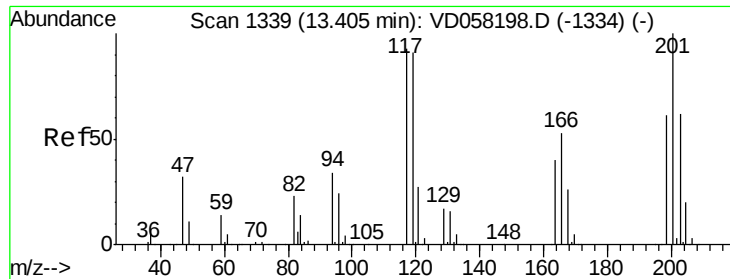


Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 92.00 (91.70 to 92.70): VDC

Ion 134.10 (133.80 to 134.80): V





#90

Hexachloroethane

Concen: 1.86 ug/l

RT: 13.38 min Scan# 1336

Delta R.T. -0.02 min

Lab File: VD058347.D

Acq: 23 Jun 2018 18:11

Instrument :

MSVOA_D

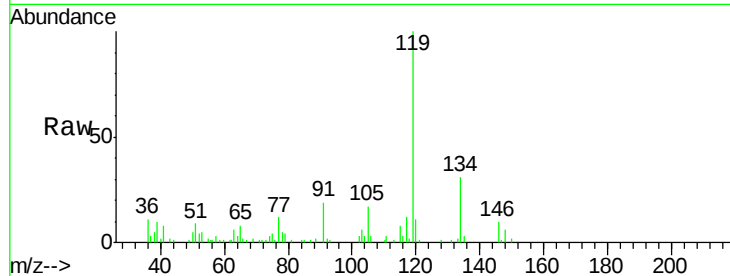
ClientSampled :

Tot Ion:117 Resp: 11476

Ion Ratio Lower Upper

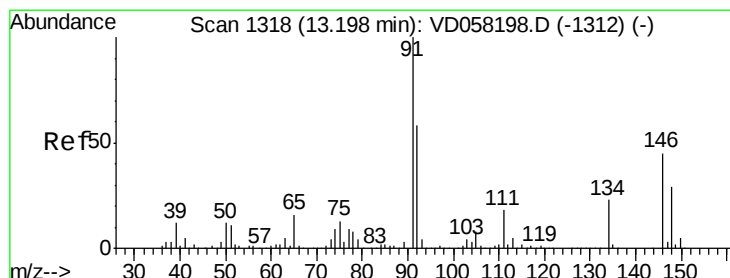
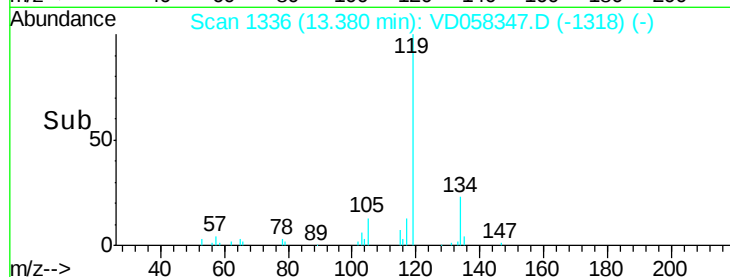
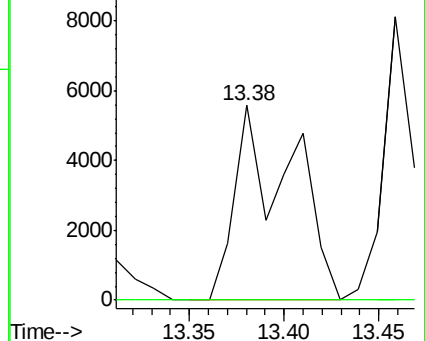
117 100

201 0.0 53.8 161.4#



Abundance Ion 116.85 (116.55 to 117.55): V

Ion 200.75 (200.45 to 201.45): V



#91

1,2-Dichlorobenzene

Concen: 395.68 ug/l

RT: 13.20 min Scan# 1318

Delta R.T. 0.01 min

Lab File: VD058347.D

Acq: 23 Jun 2018 18:11

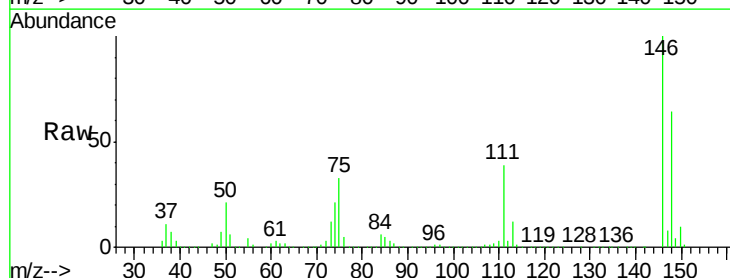
Tgt Ion:146 Resp: 4898847

Ion Ratio Lower Upper

146 100

111 38.9 19.6 58.7

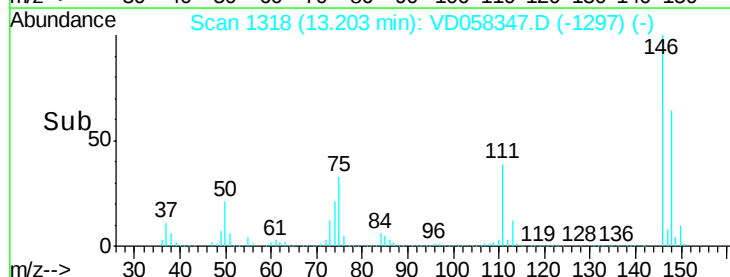
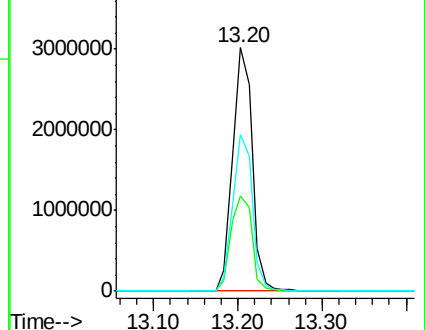
148 64.1 32.0 96.2

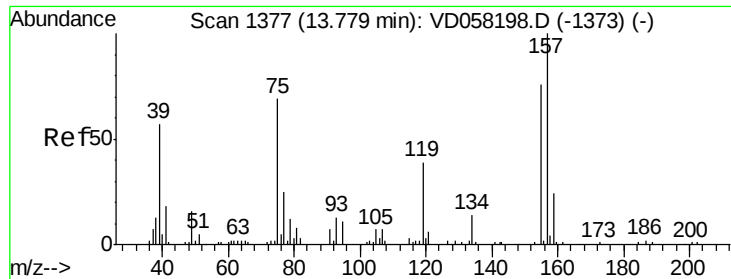


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

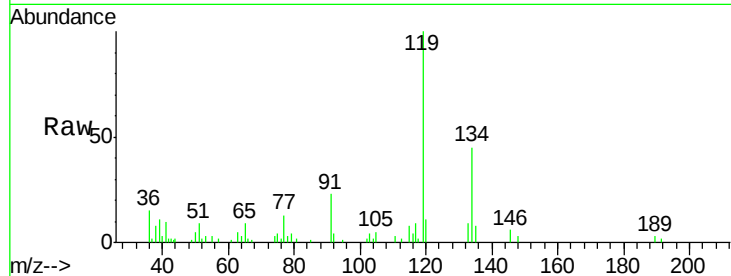




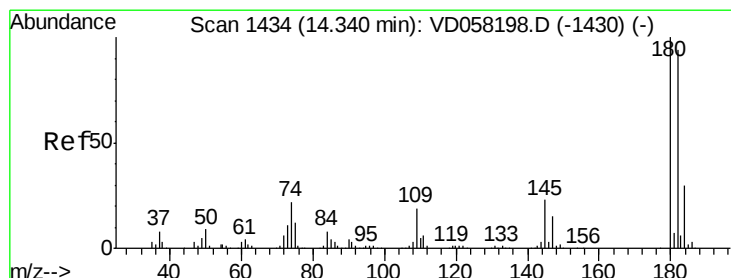
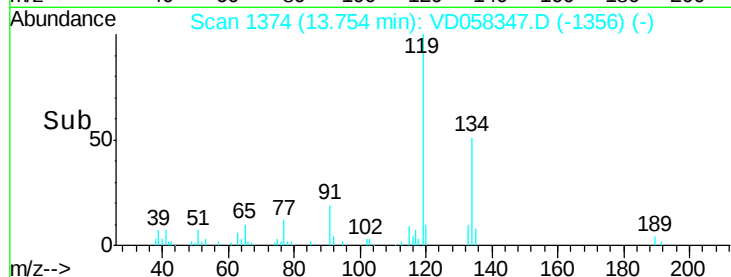
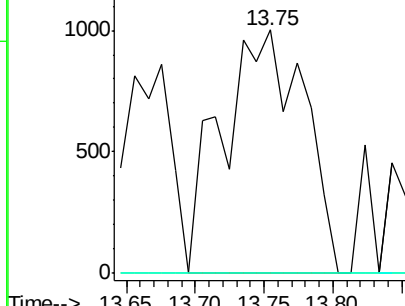
#92
 1,2-Dibromo-3-Chloropropane
 Concen: 4.04 ug/l
 RT: 13.75 min Scan# 1374
 Delta R.T. -0.02 min
 Lab File: VD058347.D
 Acq: 23 Jun 2018 18:11

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion: 75 Resp: 4179
 Ion Ratio Lower Upper
 75 100
 155 0.0 54.5 163.5#
 157 0.0 72.0 215.9#

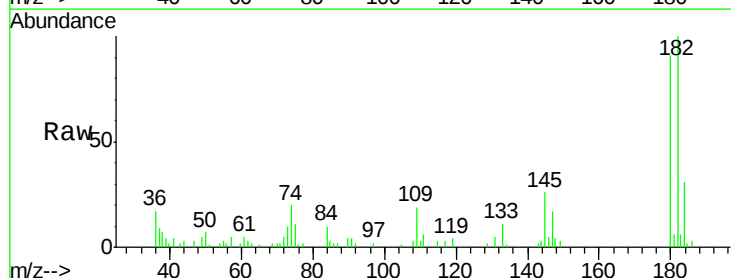


Abundance Ion 75.00 (74.70 to 75.70): V
 Ion 154.90 (154.60 to 155.60): V
 Ion 156.85 (156.55 to 157.55): V

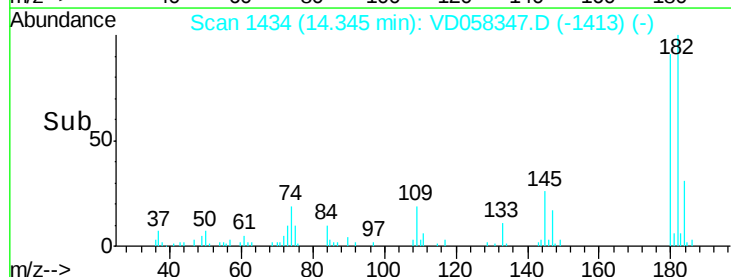
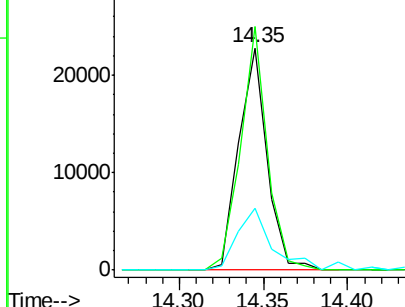


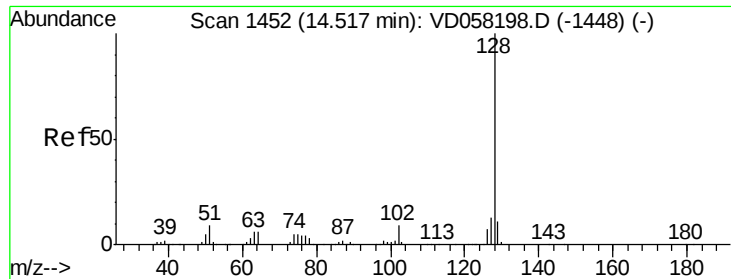
#93
 1,2,4-Trichlorobenzene
 Concen: 2.25 ug/l
 RT: 14.35 min Scan# 1434
 Delta R.T. 0.01 min
 Lab File: VD058347.D
 Acq: 23 Jun 2018 18:11

Tgt Ion:180 Resp: 26616
 Ion Ratio Lower Upper
 180 100
 182 109.5 47.1 141.3
 145 28.0 11.7 35.0



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

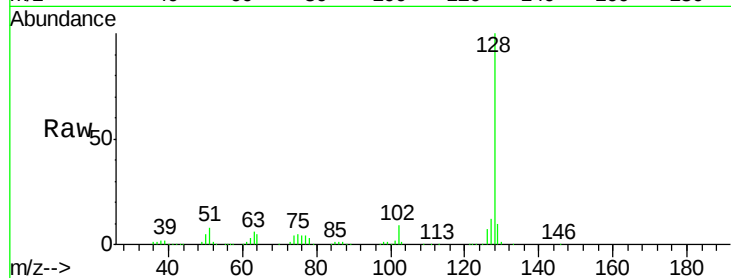




#95
Naphthalene
Concen: 29.61 ug/l
RT: 14.52 min Scan# 1452
Delta R.T. 0.01 min
Lab File: VD058347.D
Acq: 23 Jun 2018 18:11

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.4	10.0	15.0
129	10.2	8.7	13.1



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

