

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD052219\
 Data File : VD062512.D
 Acq On : 22 May 2019 19:29
 Operator : VA/AP
 Sample : K2996-11
 Misc : 6.72g/5ml/MSVOA D/SOIL
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 P-10(0.5-1.0)

Quant Time: May 23 03:16:41 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D052019S.M
 Quant Title : SW846 8260
 QLast Update : Tue May 21 03:32:39 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.04	168	609867	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	8.21	114	871330	50.00	ug/l	-0.02
63) Chlorobenzene-d5	12.37	117	547310	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	119525	50.00	ug/l	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.44	65	332854	50.99	ug/l	-0.02
Spiked Amount			Recovery	=	101.98%	
35) Dibromofluoromethane	6.91	113	364459	46.37	ug/l	-0.03
Spiked Amount			Recovery	=	92.74%	
50) Toluene-d8	10.41	98	1193454	69.38	ug/l	-0.02
Spiked Amount			Recovery	=	138.76%	
62) 4-Bromofluorobenzene	13.55	95	505279	67.15	ug/l	-0.02
Spiked Amount			Recovery	=	134.30%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.05	59	1274	4.228	ug/l #	1
13) Acrolein	3.16	56	273511	1092.989	ug/l	87
14) Allyl chloride	3.67	41	63226	9.494	ug/l #	63
15) Acrylonitrile	4.21	53	473275	685.423	ug/l #	42
16) Acetone	3.16	43	892328	762.773	ug/l #	60
20) Methylene Chloride	3.79	84	27541	Below Cal	#	1
23) Vinyl Acetate	5.05	43	111106	12.972	ug/l #	90
24) 1,1-Dichloroethane	5.05	63	43060	4.717	ug/l #	85
25) 2-Butanone	5.99	43	275479	225.148	ug/l #	56
29) Tetrahydrofuran	6.45	42	30526	52.239	ug/l #	30
30) Chloroform	6.60	83	1425007	122.438	ug/l #	24
31) Cyclohexane	6.99	56	4934851	800.600	ug/l #	44
36) 1,1-Dichloropropene	7.04	75	54594	6.554	ug/l #	58
37) Ethyl Acetate	6.31	43	46977	14.516	ug/l #	1
38) Carbon Tetrachloride	7.04	117	60776	4.909	ug/l #	16
39) Methylcyclohexane	8.87	83	5636692	820.359	ug/l #	86
40) Benzene	7.44	78	21484	1.315	ug/l	93
41) Methacrylonitrile	6.45	41	390938	96.184	ug/l #	70
42) 1,2-Dichloroethane	7.62	62	18199	2.103	ug/l #	1
43) Isopropyl Acetate	9.28	43	996756	232.168	ug/l #	44
45) 1,2-Dichloropropane	8.94	63	20616	5.177	ug/l #	1
46) Dibromomethane	9.01	93	31388	8.696	ug/l #	1
47) Bromodichloromethane	9.39	83	2259888	246.104	ug/l #	27
48) Methyl methacrylate	9.15	41	2235692	773.827	ug/l #	83
49) 1,4-Dioxane	8.84	88	198	7.640	ug/l #	1
51) 4-Methyl-2-Pentanone	10.37	43	1631143	575.114	ug/l #	71
52) Toluene	10.50	92	125513	11.220	ug/l	97
55) 1,1,2-Trichloroethane	11.11	97	2995329	790.058	ug/l #	22
56) Ethyl methacrylate	11.10	69	1728922	426.580	ug/l #	1
58) 2-Chloroethyl Vinyl ether	9.96	63	62139	29.858	ug/l #	46
59) 2-Hexanone	11.49	43	4082575	1980.583	ug/l #	32
60) Dibromochloromethane	11.65	129	18260	2.508	ug/l	66
61) 1,2-Dibromoethane	11.75	107	5982	1.280	ug/l #	1
67) Ethyl Benzene	12.53	91	531011	29.291	ug/l	95

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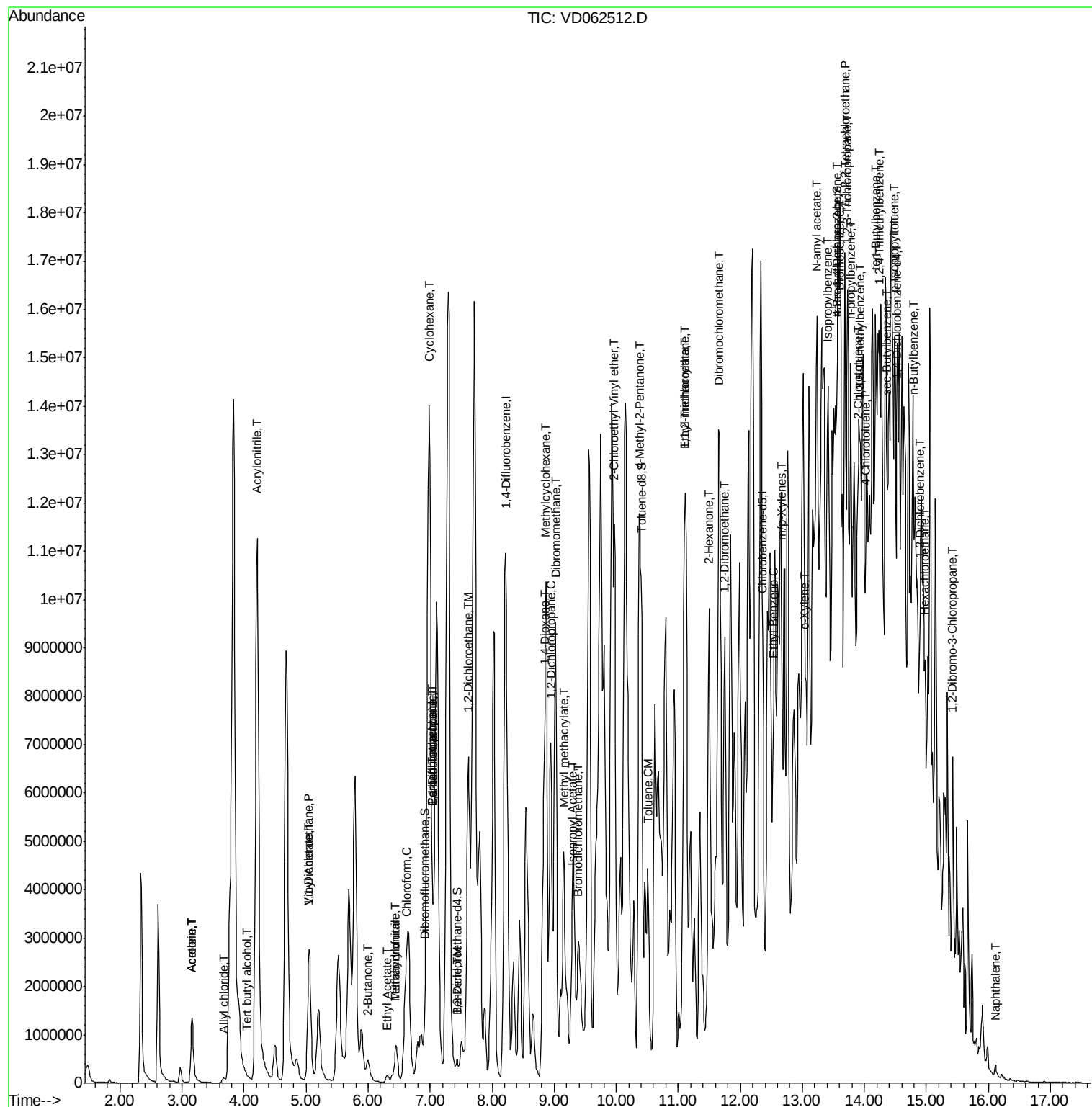
68) m/p-Xylenes	12.68	106	144089	22.142	ug/l #	64
69) o-Xylene	13.05	106	21783	3.548	ug/l #	1
73) Isopropylbenzene	13.41	105	2692096	357.321	ug/l	96
74) N-amyl acetate	13.24	43	2823102	1517.146	ug/l #	54
75) 1,1,2,2-Tetrachloroethane	13.70	83	498921	367.067	ug/l #	47
76) 1,2,3-Trichloropropane	13.73	75	1478	1.050	ug/l #	1
77) Bromobenzene	13.61	156	5509	2.578	ug/l #	1
78) n-propylbenzene	13.78	91	3088973	353.955	ug/l	99
79) 2-Chlorotoluene	13.90	91	161985	30.586	ug/l #	47
80) 1,3,5-Trimethylbenzene	13.94	105	200074	30.670	ug/l	99
81) trans-1,4-Dichloro-2-buten	13.55	75	64070	161.363	ug/l #	1
82) 4-Chlorotoluene	14.01	91	88208	14.462	ug/l #	61
83) tert-Butylbenzene	14.19	119	116759	16.136	ug/l #	22
84) 1,2,4-Trimethylbenzene	14.24	105	79520	11.896	ug/l	92
85) sec-Butylbenzene	14.37	105	643280	85.258	ug/l	84
86) p-Isopropyltoluene	14.50	119	235517	34.445	ug/l #	36
89) n-Butylbenzene	14.80	91	1387889	210.324	ug/l	86
90) Hexachloroethane	14.98	117	98291	52.015	ug/l #	20
91) 1,2-Dichlorobenzene	14.89	146	5460	1.701	ug/l #	1
92) 1,2-Dibromo-3-Chloropropan	15.42	75	16602	64.350	ug/l #	1
95) Naphthalene	16.12	128	137771	39.900	ug/l	100

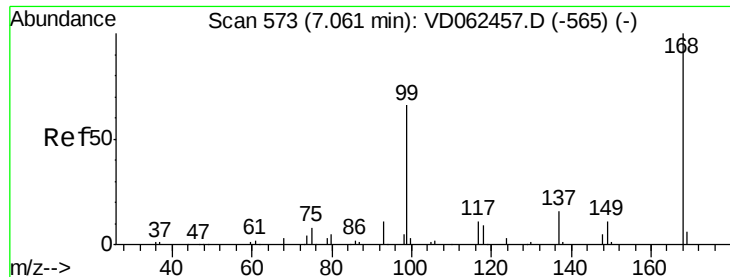
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.04 min Scan# 570

Delta R.T. -0.02 min

Lab File: VD062512.D

Acq: 22 May 2019 19:29

Instrument :

MSVOA_D

ClientSampleId :

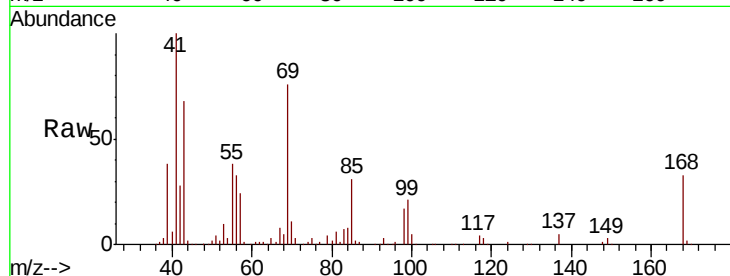
P-10(0.5-1.0)

Tot Ion:168 Resp: 609867

Ion Ratio Lower Upper

168 100

99 62.4 46.5 69.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.04

200000

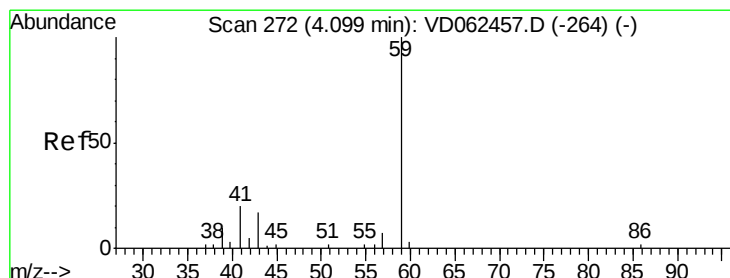
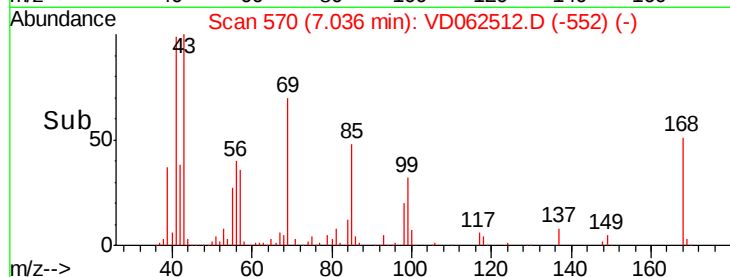
150000

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 4.228 ug/l

RT: 4.05 min Scan# 267

Delta R.T. -0.04 min

Lab File: VD062512.D

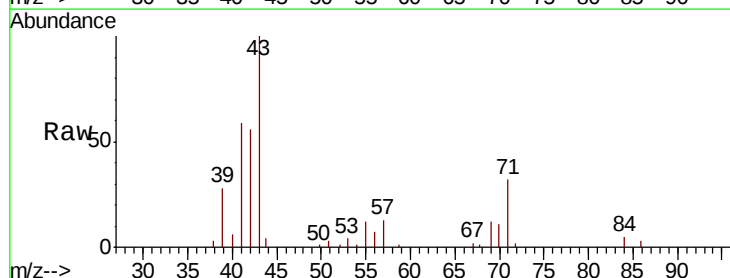
Acq: 22 May 2019 19:29

Tgt Ion: 59 Resp: 1274

Ion Ratio Lower Upper

59 100

57 1062.6 6.9 10.3#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC

20000

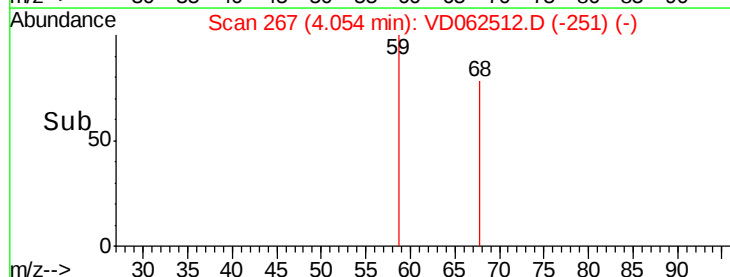
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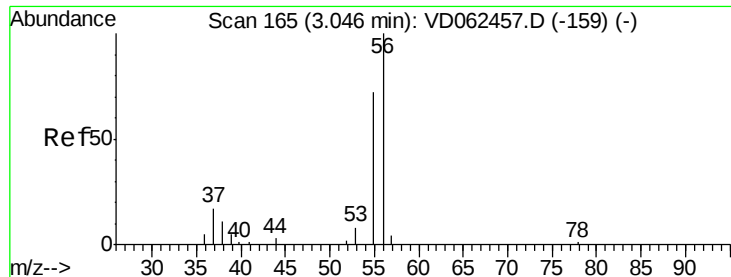
10000

5000

0

Time-->





#13

Acrolein

Concen: 1092.989 ug/l

RT: 3.16 min Scan# 176

Delta R.T. 0.11 min

Lab File: VD062512.D

Acq: 22 May 2019 19:29

Instrument :

MSVOA_D

ClientSampleId :

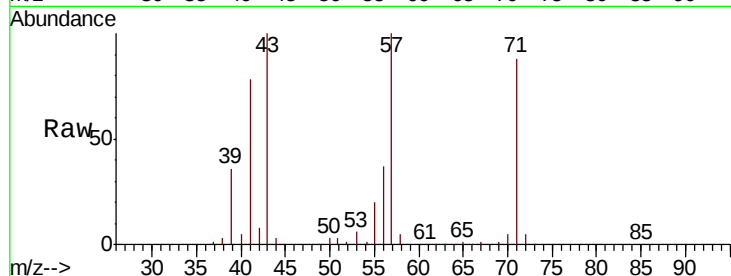
P-10(0.5-1.0)

Tot Ion: 56 Resp: 273511

Ion Ratio Lower Upper

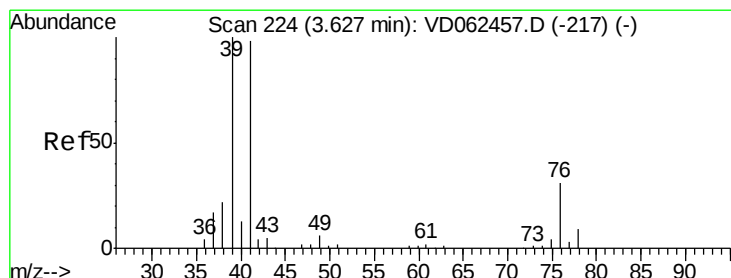
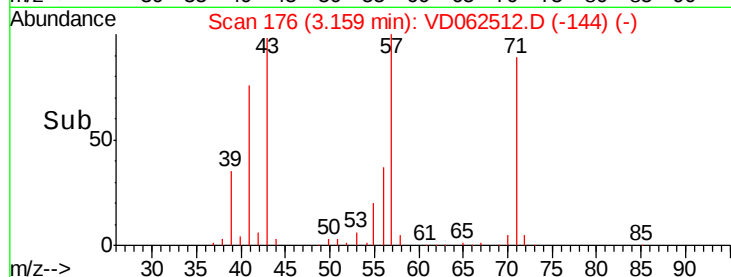
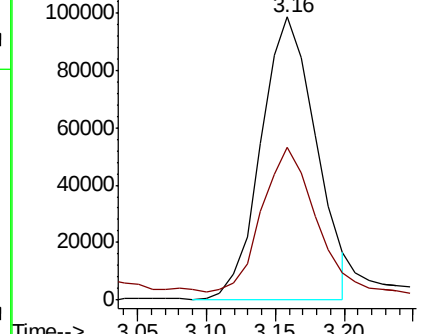
56 100

55 54.1 51.4 77.2



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC



#14

Allyl chloride

Concen: 9.494 ug/l

RT: 3.67 min Scan# 228

Delta R.T. 0.04 min

Lab File: VD062512.D

Acq: 22 May 2019 19:29

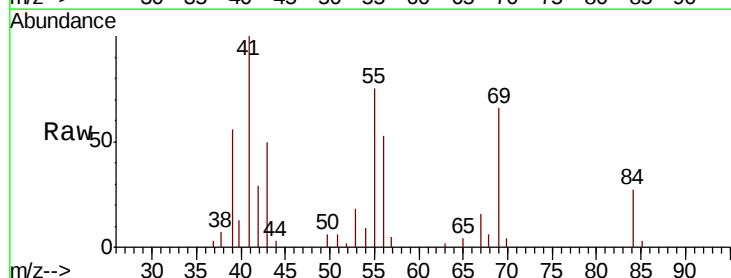
Tgt Ion: 41 Resp: 63226

Ion Ratio Lower Upper

41 100

39 56.2 60.5 90.7#

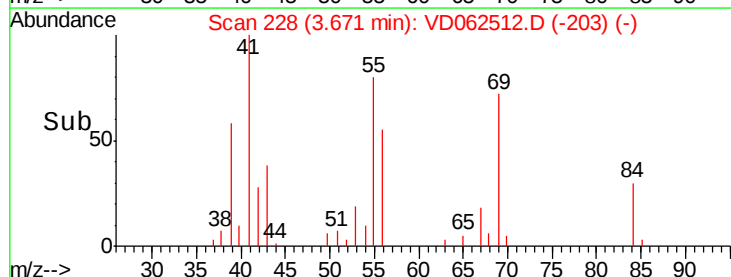
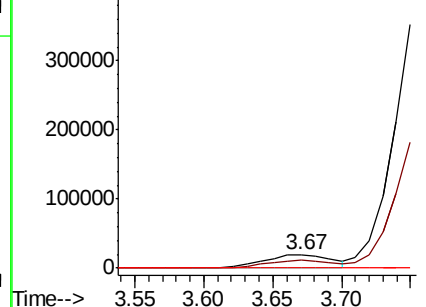
76 0.0 31.8 47.8#

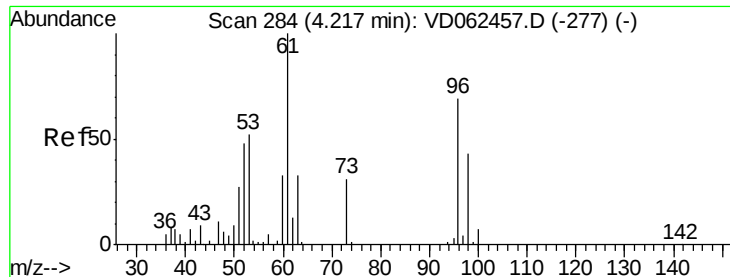


Abundance Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 75.95 (75.65 to 76.65): VDC





#15

Acrylonitrile

Concen: 685.423 ug/l

RT: 4.21 min Scan# 283

Delta R.T. -0.01 min

Lab File: VD062512.D

Acq: 22 May 2019 19:29

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ClientSampleId :

P-10(0.5-1.0)

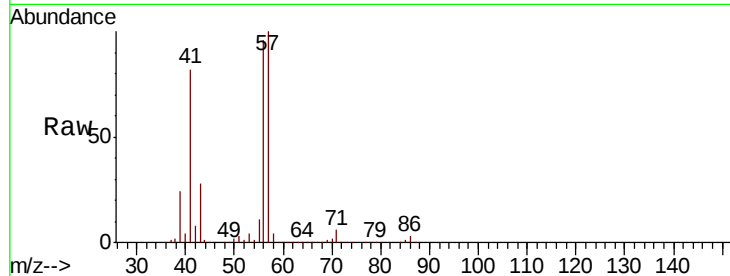
Tot Ion: 53 Resp: 473275

Ion Ratio Lower Upper

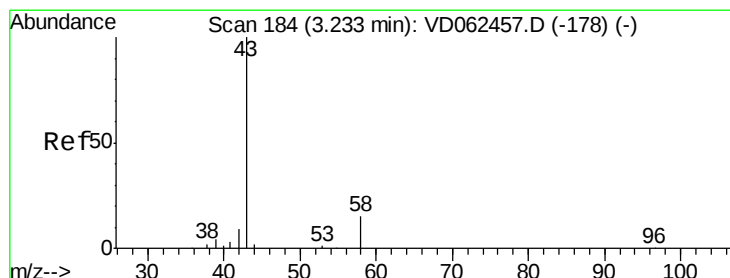
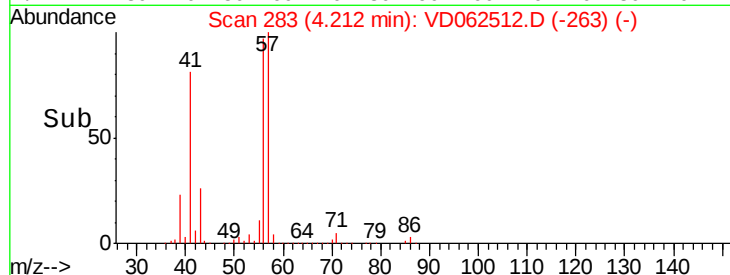
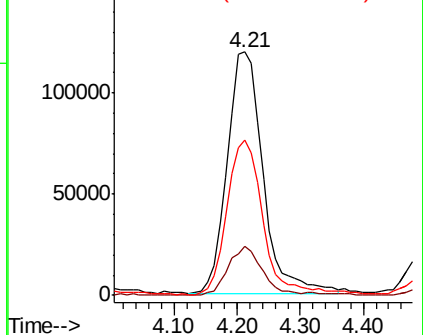
53 100

52 19.9 65.0 97.4#

51 64.0 32.6 48.8#



Abundance Ion 53.00 (52.70 to 53.70): VDC
Ion 52.00 (51.70 to 52.70): VDC
Ion 51.00 (50.70 to 51.70): VDC



#16

Acetone

Concen: 762.773 ug/l

RT: 3.16 min Scan# 176

Delta R.T. -0.07 min

Lab File: VD062512.D

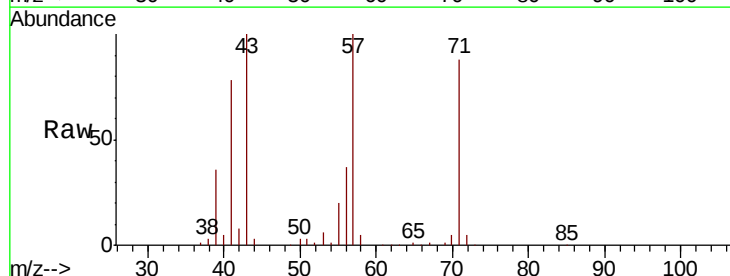
Acq: 22 May 2019 19:29

Tgt Ion: 43 Resp: 892328

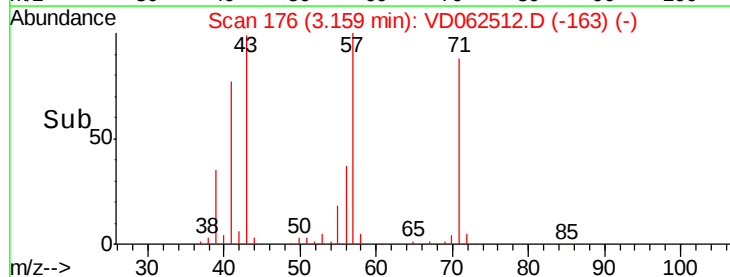
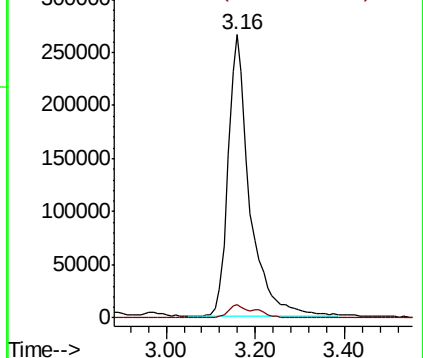
Ion Ratio Lower Upper

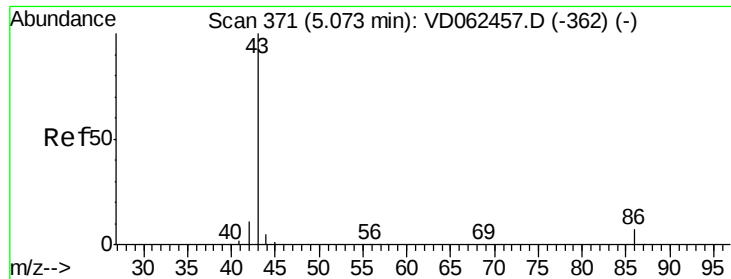
43 100

58 4.7 19.9 29.9#



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





#23

Vinyl Acetate

Concen: 12.972 ug/l

RT: 5.05 min Scan# 368

Delta R.T. -0.02 min

Lab File: VD062512.D

Acq: 22 May 2019 19:29

Instrument :

MSVOA_D

ClientSampleId :

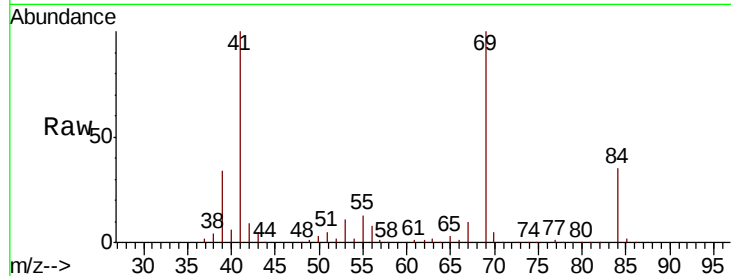
P-10(0.5-1.0)

Tot Ion: 43 Resp: 111106

Ion Ratio Lower Upper

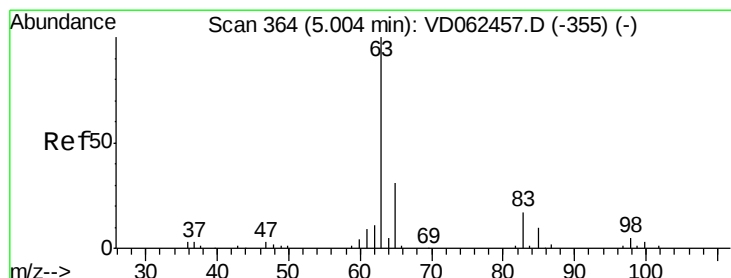
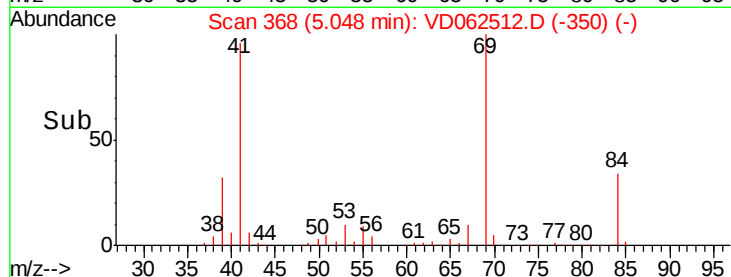
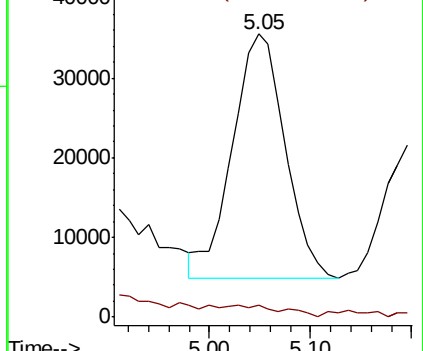
43 100

86 4.4 6.4 9.6#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 86.00 (85.70 to 86.70): VDC



#24

1,1-Dichloroethane

Concen: 4.717 ug/l

RT: 5.05 min Scan# 368

Delta R.T. 0.04 min

Lab File: VD062512.D

Acq: 22 May 2019 19:29

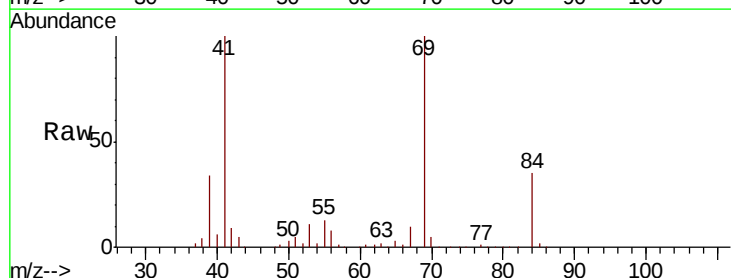
Tgt Ion: 63 Resp: 43060

Ion Ratio Lower Upper

63 100

98 0.0 2.8 8.4#

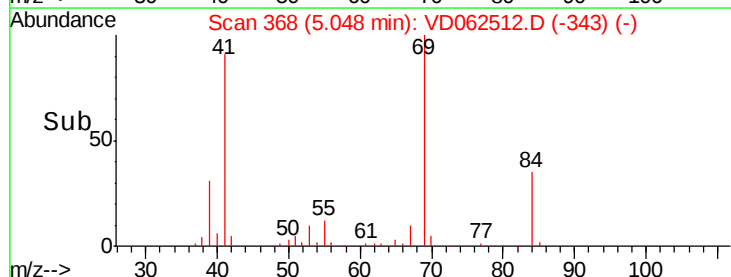
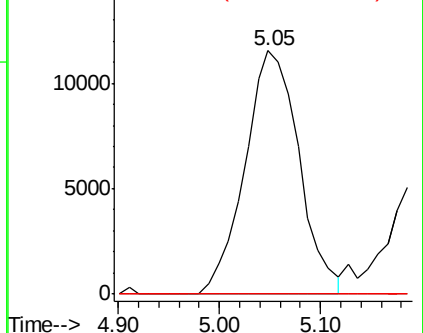
100 0.0 1.8 5.5#

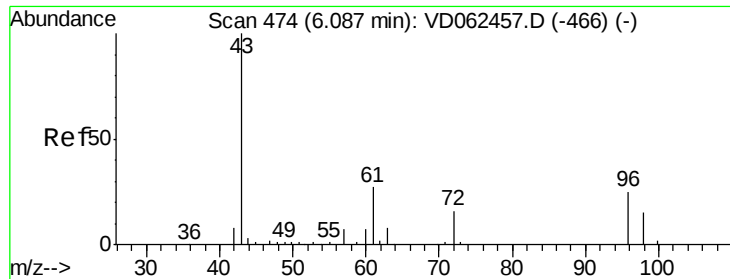


Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 97.95 (97.65 to 98.65): VDC

Ion 99.95 (99.65 to 100.65): VDC





#25

2-Butanone

Concen: 225.148 ug/l

RT: 5.99 min Scan# 464

Delta R.T. -0.09 min

Lab File: VD062512.D

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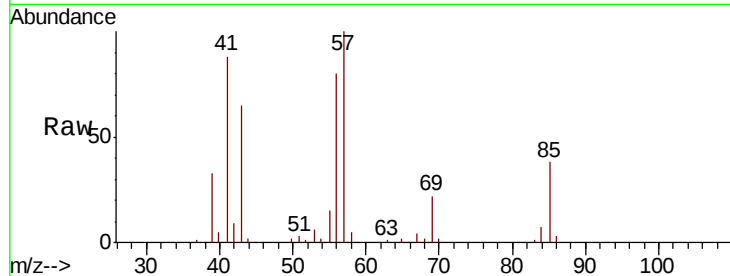
P-10(0.5-1.0)

Tot Ion: 43 Resp: 275479

Ion Ratio Lower Upper

43 100

72 0.0 16.2 24.4#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC

200000

150000

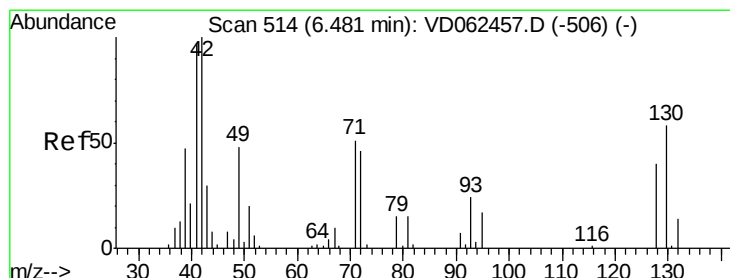
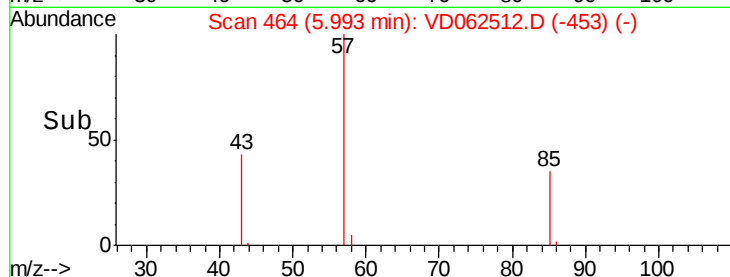
100000

50000

0

5.80 6.00 6.20

Time-->



#29

Tetrahydrofuran

Concen: 52.239 ug/l

RT: 6.45 min Scan# 510

Delta R.T. -0.03 min

Lab File: VD062512.D

Acq: 22 May 2019 19:29

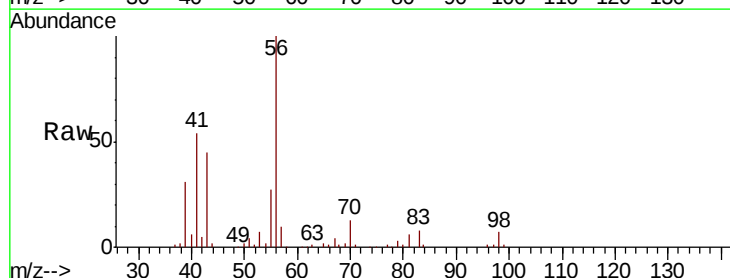
Tgt Ion: 42 Resp: 30526

Ion Ratio Lower Upper

42 100

72 0.0 37.8 56.6#

71 0.0 36.7 55.1#



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

20000

15000

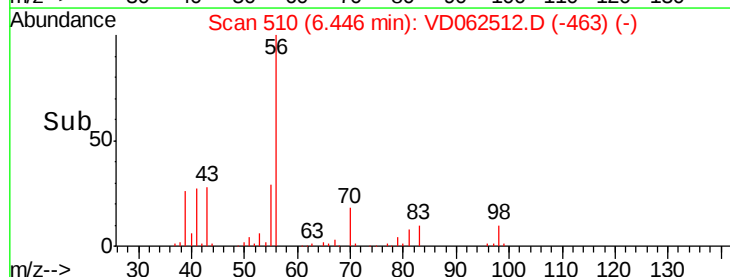
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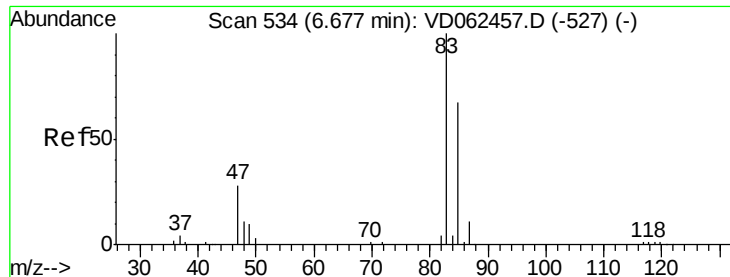
5000

0

6.40 6.50

Time-->

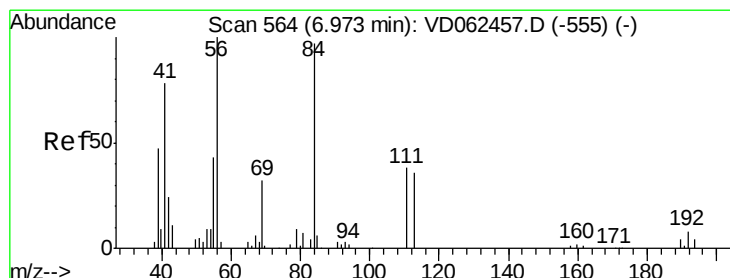
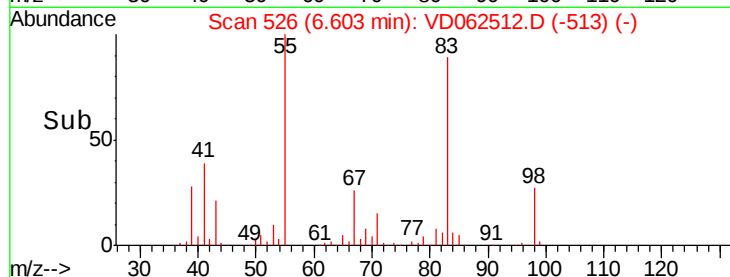
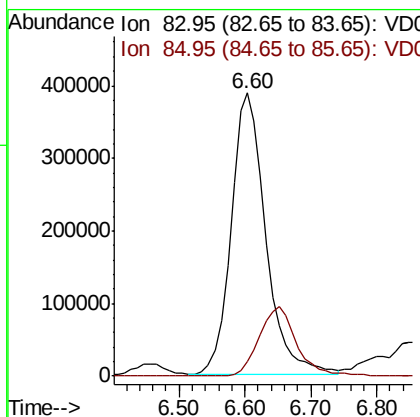
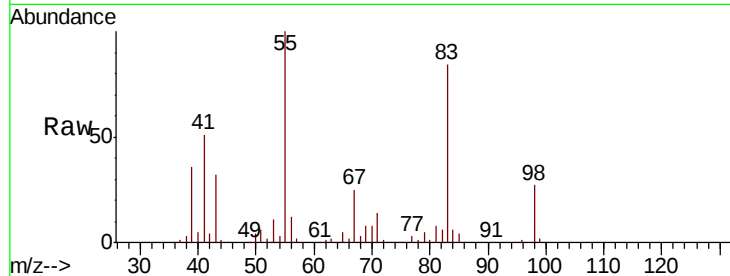




#30
Chloroform
Concen: 122.438 ug/l
RT: 6.60 min Scan# 526
Delta R.T. -0.07 min
Lab File: VD062512.D
Acq: 22 May 2019 19:29

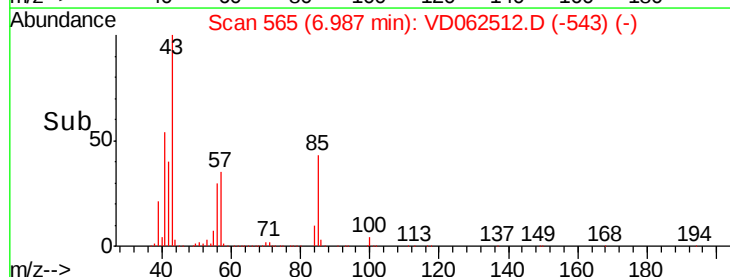
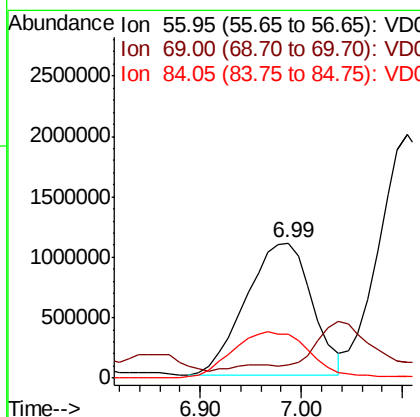
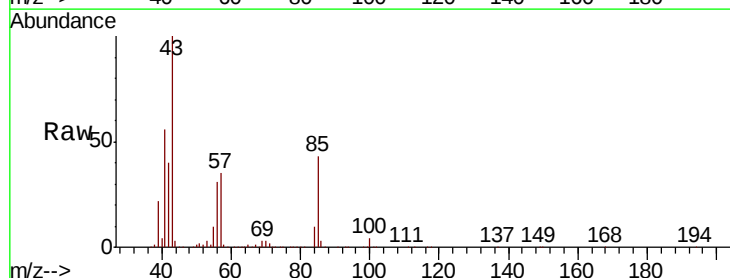
Instrument :
MSVOA_D
ClientSampleId :
P-10(0.5-1.0)

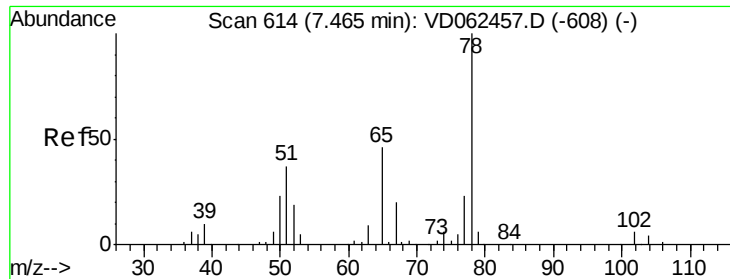
Tot Ion: 83 Resp: 1425007
Ion Ratio Lower Upper
83 100
85 5.0 51.7 77.5#



#31
Cyclohexane
Concen: 800.600 ug/l
RT: 6.99 min Scan# 565
Delta R.T. 0.01 min
Lab File: VD062512.D
Acq: 22 May 2019 19:29

Tgt Ion: 56 Resp: 4934851
Ion Ratio Lower Upper
56 100
69 9.6 25.8 38.6#
84 32.6 72.2 108.4#





#33

1,2-Dichloroethane-d4

Concen: 50.987 ug/l

RT: 7.44 min Scan# 611

Delta R.T. -0.02 min

Lab File: VD062512.D

Acq: 22 May 2019 19:29

Instrument :

MSVOA_D

ClientSampleId :

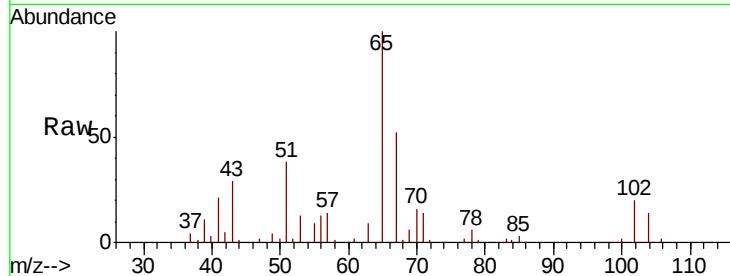
P-10(0.5-1.0)

Tot Ion: 65 Resp: 332854

Ion Ratio Lower Upper

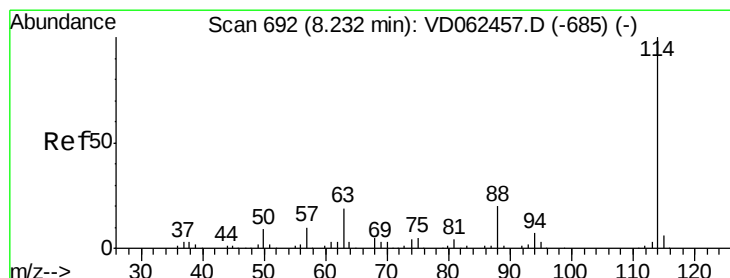
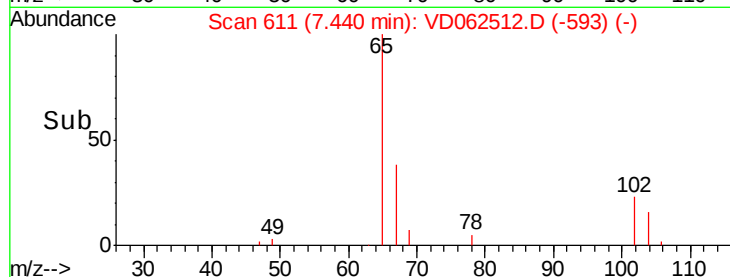
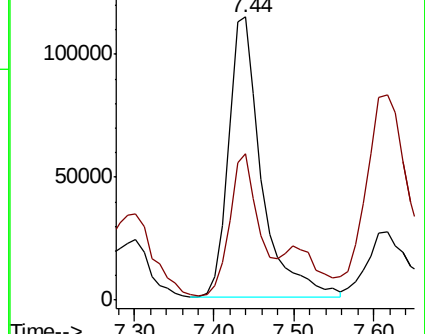
65 100

67 51.7 0.0 98.0



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.21 min Scan# 689

Delta R.T. -0.02 min

Lab File: VD062512.D

Acq: 22 May 2019 19:29

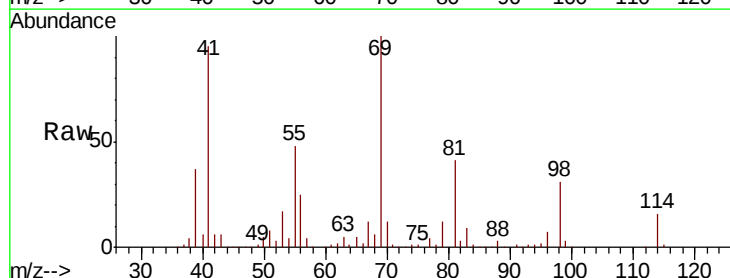
Tgt Ion: 114 Resp: 871330

Ion Ratio Lower Upper

114 100

63 32.2 0.0 32.4

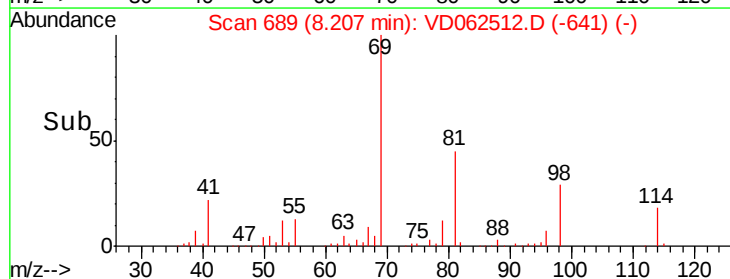
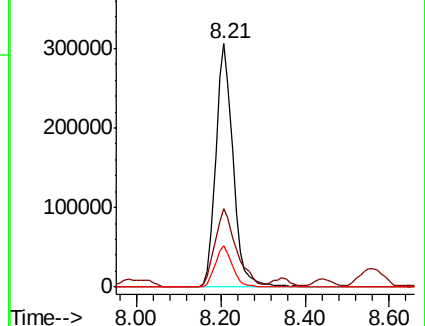
88 17.1 0.0 33.6

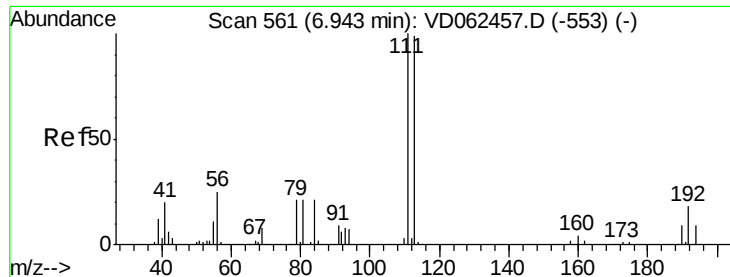


Abundance Ion 114.00 (113.70 to 114.70): VDC

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC

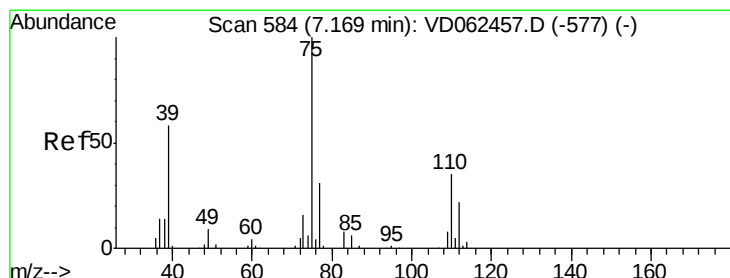
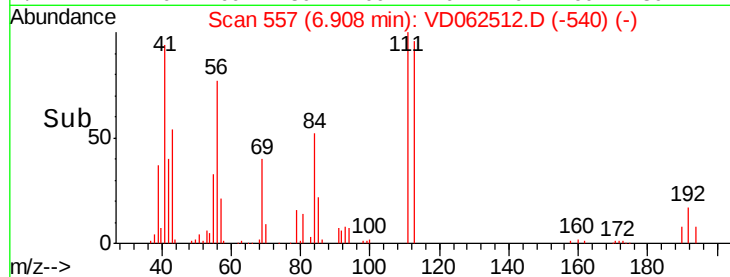
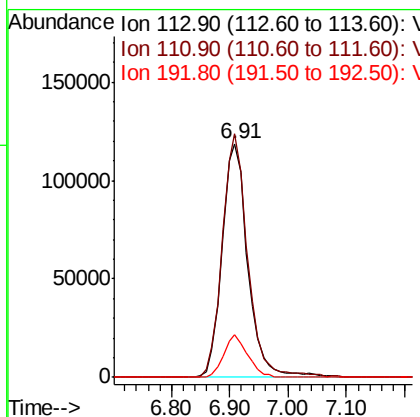
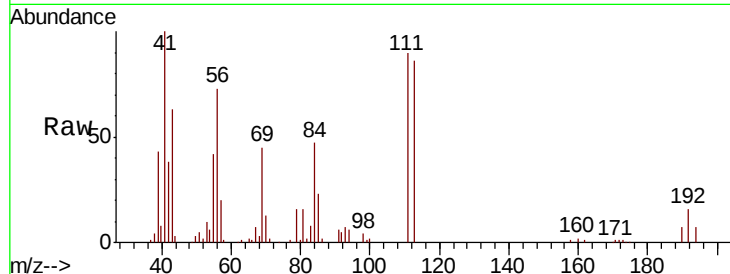




#35
 Dibromofluoromethane
 Concen: 46.366 ug/l
 RT: 6.91 min Scan# 557
 Delta R.T. -0.03 min
 Lab File: VD062512.D
 Acq: 22 May 2019 19:29

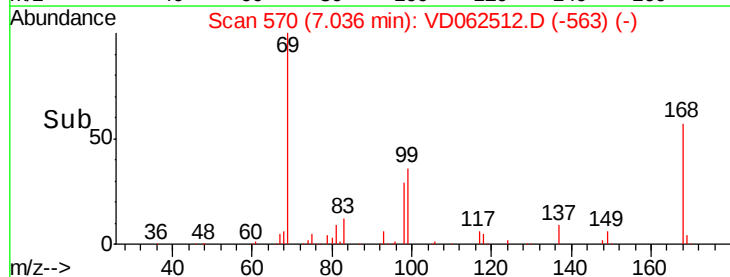
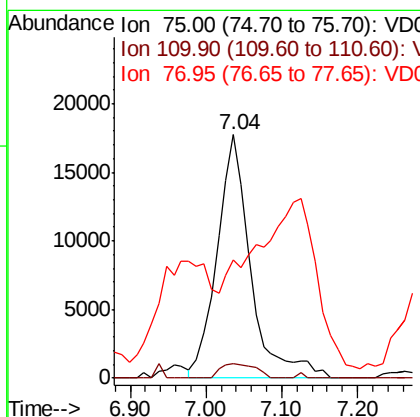
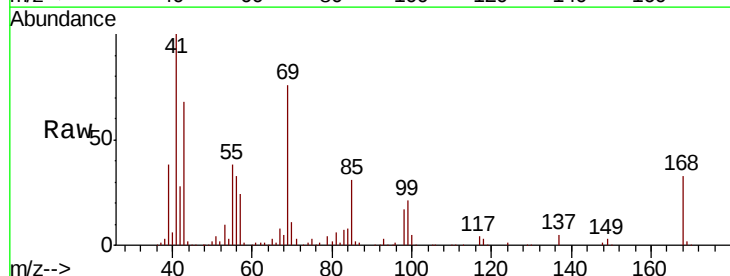
Instrument :
 MSVOA_D
 ClientSampleId :
 P-10(0.5-1.0)

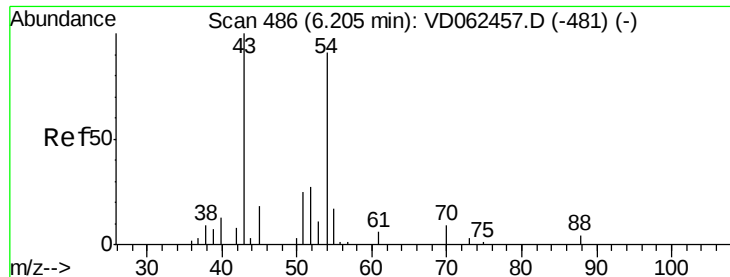
Tot Ion:113 Resp: 364459
 Ion Ratio Lower Upper
 113 100
 111 104.3 78.5 117.7
 192 18.0 13.0 19.4



#36
 1,1-Dichloropropene
 Concen: 6.554 ug/l
 RT: 7.04 min Scan# 570
 Delta R.T. -0.13 min
 Lab File: VD062512.D
 Acq: 22 May 2019 19:29

Tgt Ion: 75 Resp: 54594
 Ion Ratio Lower Upper
 75 100
 110 5.9 19.1 57.1#
 77 48.5 25.6 38.4#





#37

Ethyl Acetate

Concen: 14.516 ug/l

RT: 6.31 min Scan# 496

Delta R.T. 0.10 min

Lab File: VD062512.D

Acq: 22 May 2019 19:29

Instrument :

MSVOA_D

ClientSampleId :

P-10(0.5-1.0)

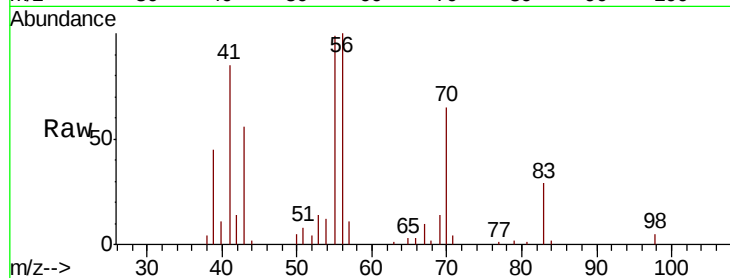
Tot Ion: 43 Resp: 46977

Ion Ratio Lower Upper

43 100

61 0.0 14.7 22.1#

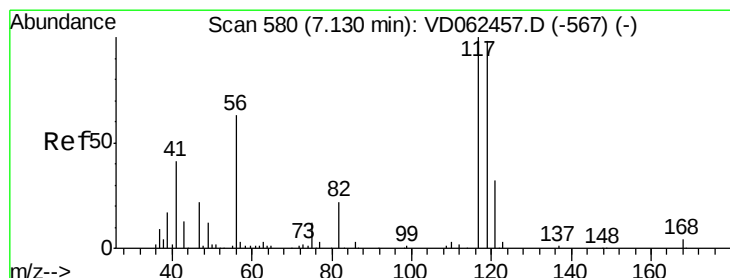
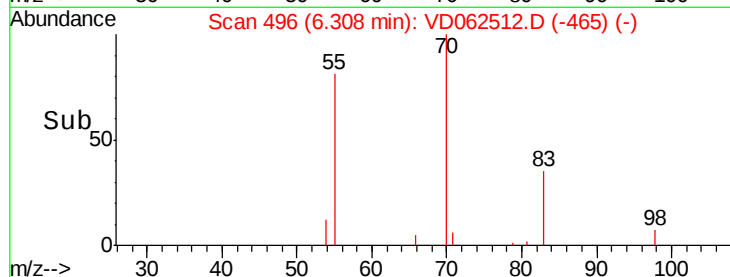
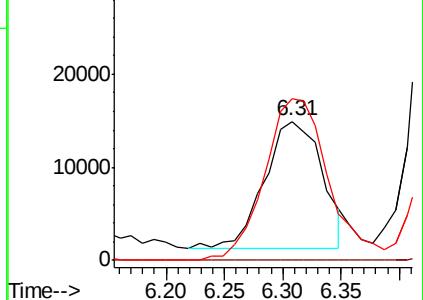
70 116.5 7.8 11.6#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 70.00 (69.70 to 70.70): VDC



#38

Carbon Tetrachloride

Concen: 4.909 ug/l

RT: 7.04 min Scan# 570

Delta R.T. -0.09 min

Lab File: VD062512.D

Acq: 22 May 2019 19:29

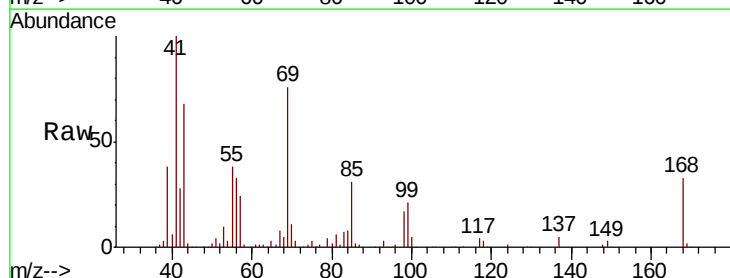
Tgt Ion: 117 Resp: 60776

Ion Ratio Lower Upper

117 100

119 5.2 75.8 113.8#

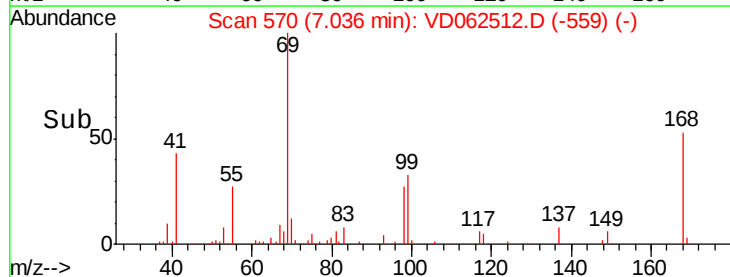
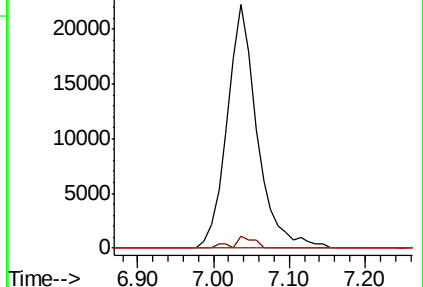
121 0.0 25.9 38.9#

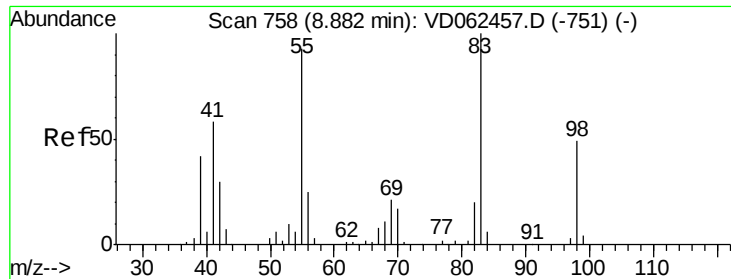


Abundance Ion 116.85 (116.55 to 117.55): V

Ion 118.85 (118.55 to 119.55): V

Ion 120.85 (120.55 to 121.55): V

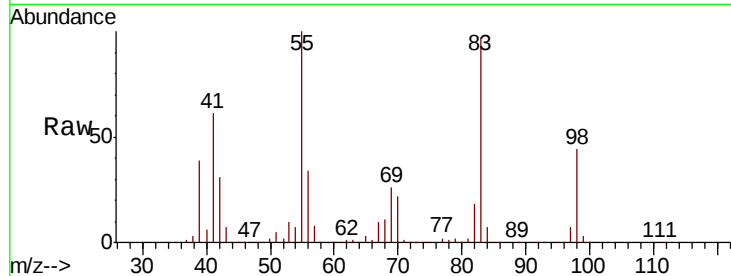




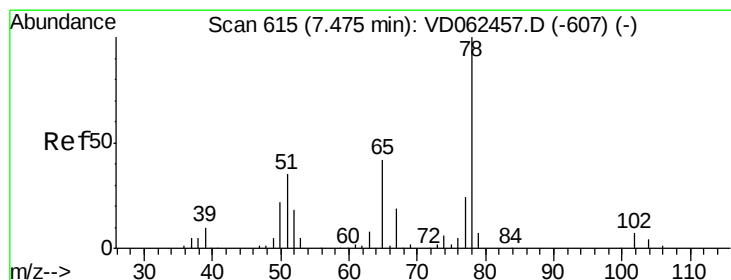
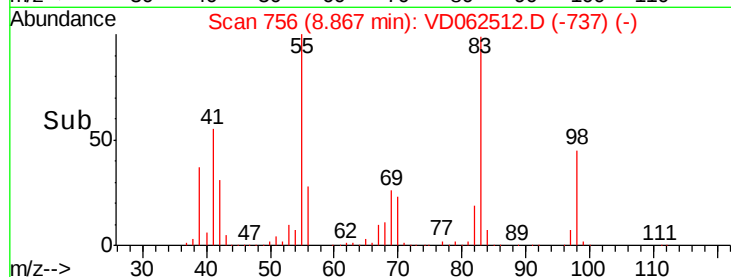
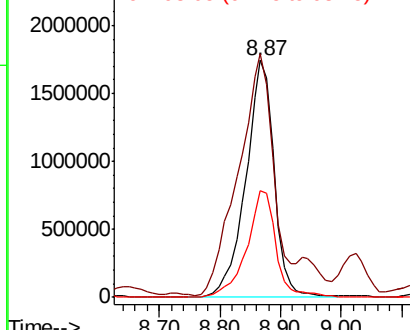
#39
Methvlcvclohexane
Concen: 820.359 ug/l
RT: 8.87 min Scan# 756
Delta R.T. -0.02 min
Lab File: VD062512.D
Acq: 22 May 2019 19:29

Instrument :
MSVOA_D
ClientSampleId :
P-10(0.5-1.0)

Tot Ion: 83 Resp: 5636692
Ion Ratio Lower Upper
83 100
55 102.8 68.2 102.4#
98 45.1 38.2 57.4

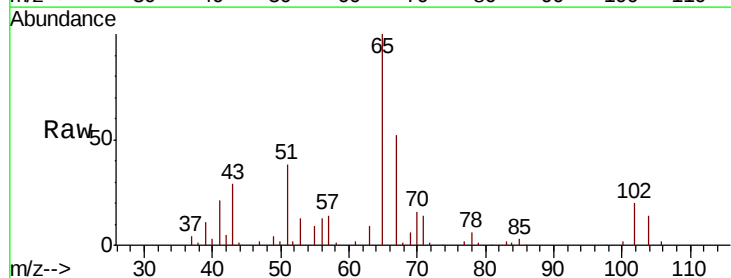


Abundance Ion 83.05 (82.75 to 83.75): VDC
Ion 55.00 (54.70 to 55.70): VDC
Ion 98.05 (97.75 to 98.75): VDC

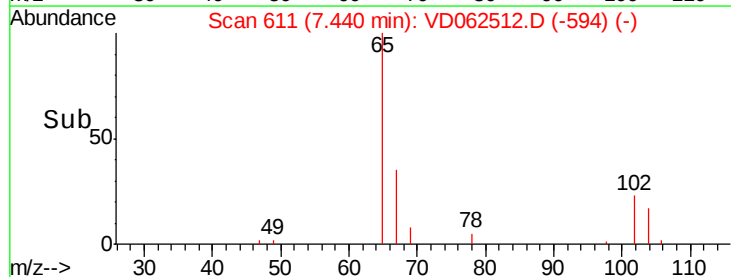
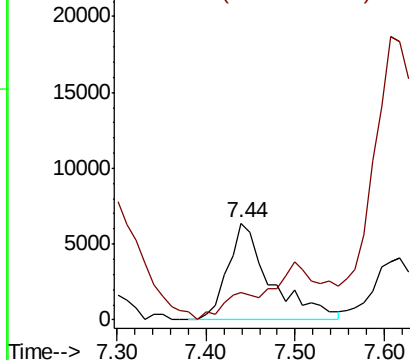


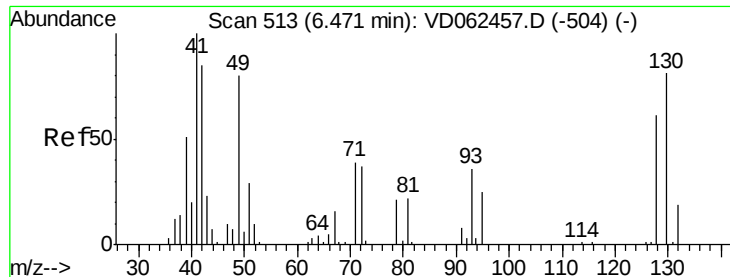
#40
Benzene
Concen: 1.315 ug/l
RT: 7.44 min Scan# 611
Delta R.T. -0.03 min
Lab File: VD062512.D
Acq: 22 May 2019 19:29

Tgt Ion: 78 Resp: 21484
Ion Ratio Lower Upper
78 100
77 27.9 19.7 29.5



Abundance Ion 77.95 (77.65 to 78.65): VDC
Ion 76.95 (76.65 to 77.65): VDC





#41

Methacrylonitrile

Concen: 96.184 ug/l

RT: 6.45 min Scan# 510

Delta R.T. -0.02 min

Lab File: VD062512.D

Acq: 22 May 2019 19:29

Instrument :

MSVOA_D

ClientSampleId :

P-10(0.5-1.0)

Tot Ion: 41 Resp: 390938

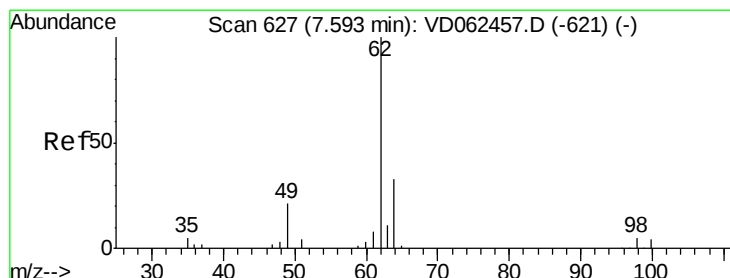
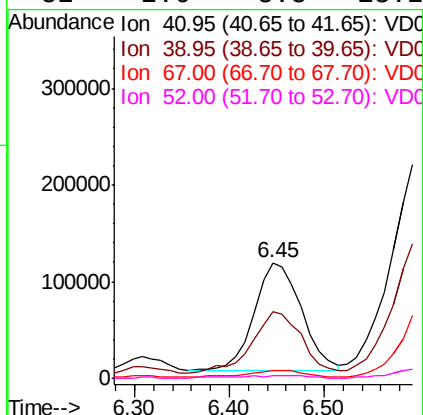
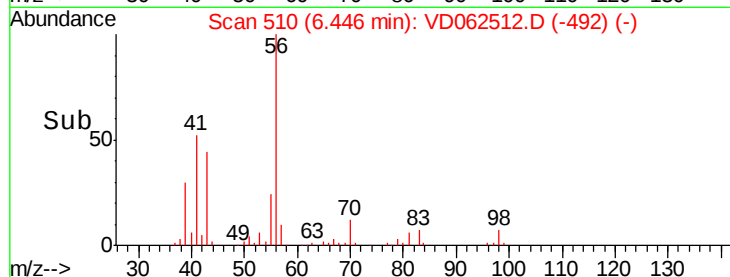
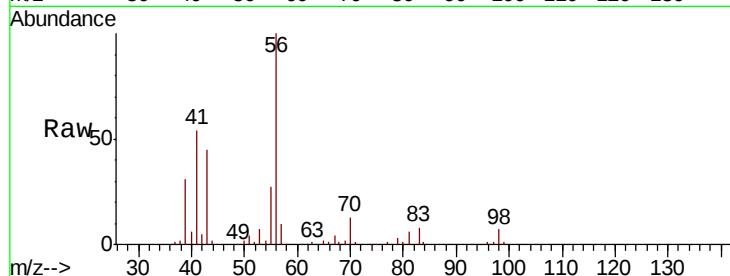
Ion Ratio Lower Upper

41 100

39 57.0 34.1 51.1#

67 6.5 23.8 35.6#

52 2.6 8.8 13.2#



#42

1,2-Dichloroethane

Concen: 2.103 ug/l

RT: 7.62 min Scan# 629

Delta R.T. 0.02 min

Lab File: VD062512.D

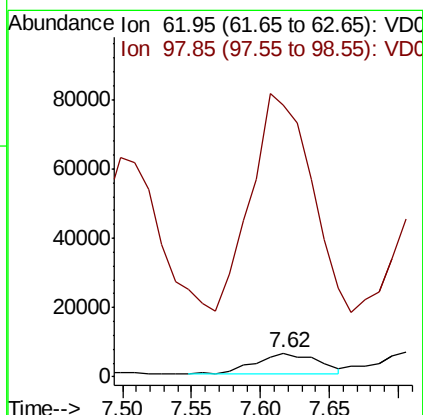
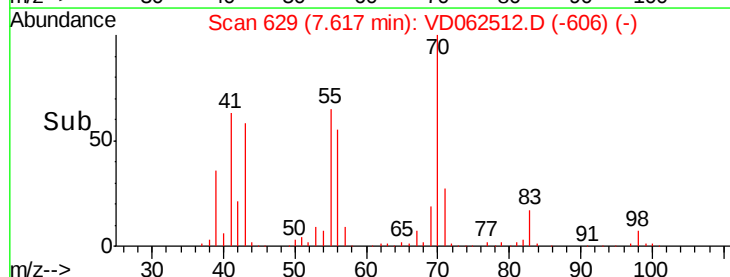
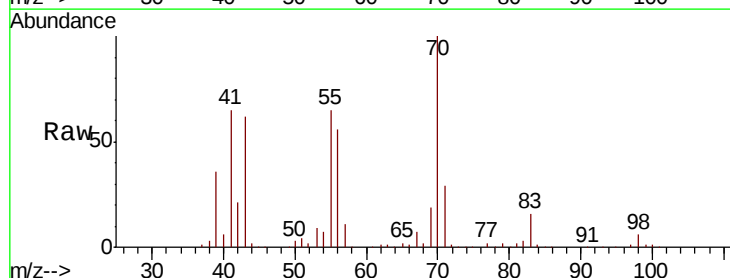
Acq: 22 May 2019 19:29

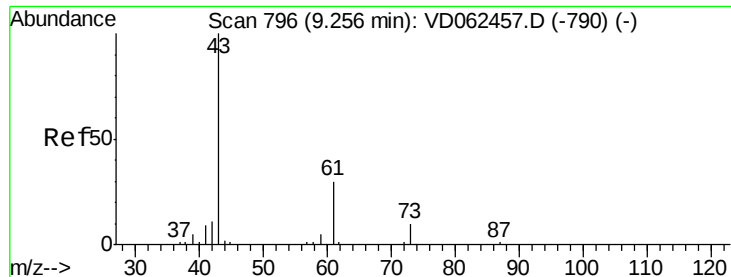
Tgt Ion: 62 Resp: 18199

Ion Ratio Lower Upper

62 100

98 1140.3 0.0 17.8#





#43

Isopropyl Acetate

Concen: 232.168 ug/l

RT: 9.28 min Scan# 798

Delta R.T. 0.02 min

Lab File: VD062512.D

Acq: 22 May 2019 19:29

Instrument :

MSVOA_D

ClientSampleId :

P-10(0.5-1.0)

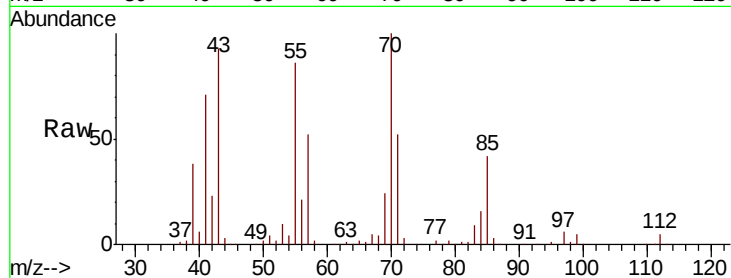
Tot Ion: 43 Resp: 996756

Ion Ratio Lower Upper

43 100

61 0.2 25.1 37.7#

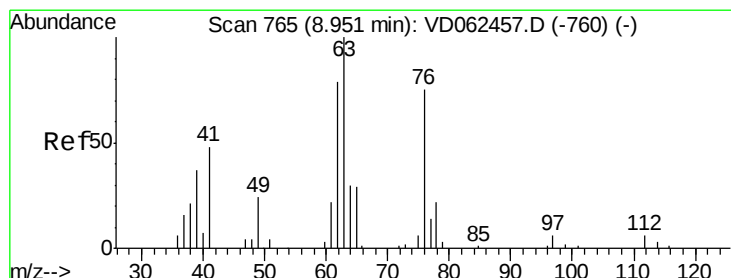
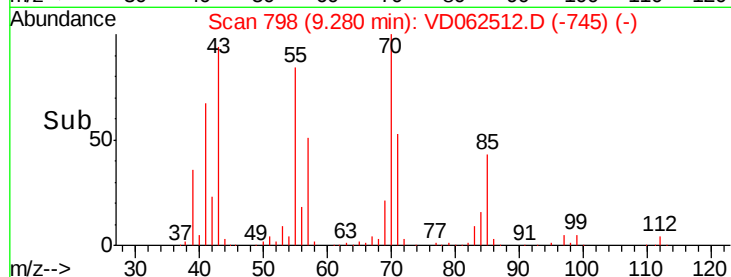
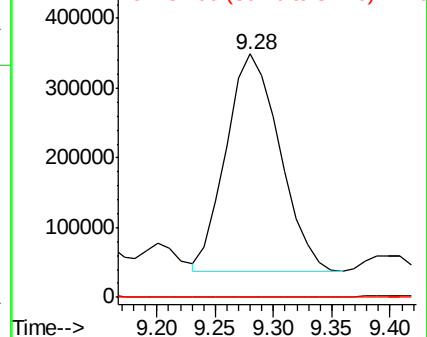
87 0.1 0.0 0.0#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 87.00 (86.70 to 87.70): VDC



#45

1,2-Dichloropropane

Concen: 5.177 ug/l

RT: 8.94 min Scan# 763

Delta R.T. -0.02 min

Lab File: VD062512.D

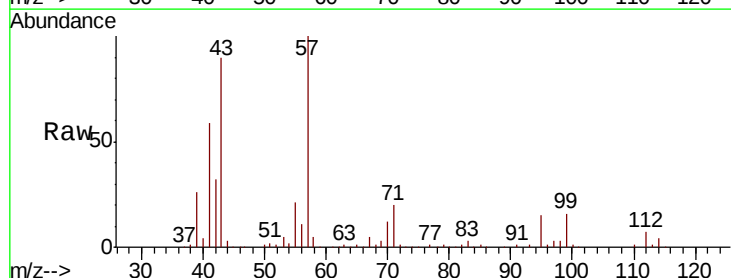
Acq: 22 May 2019 19:29

Tgt Ion: 63 Resp: 20616

Ion Ratio Lower Upper

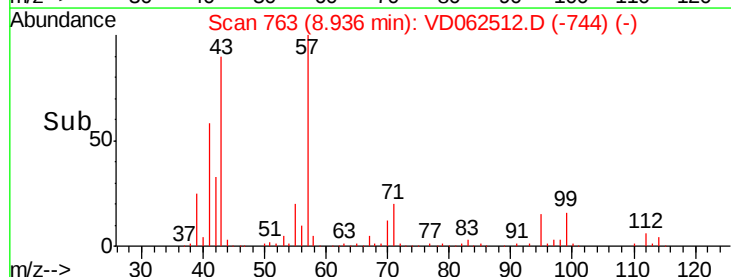
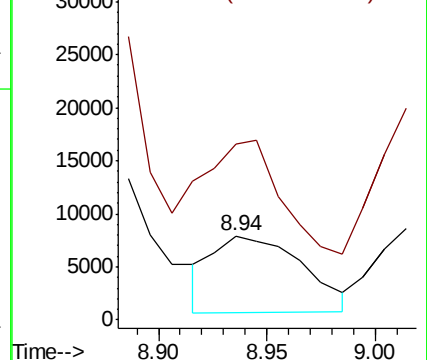
63 100

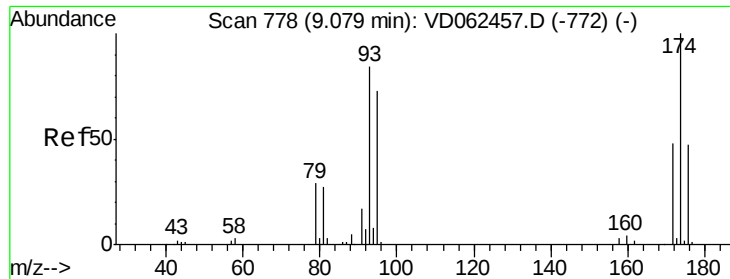
65 209.6 23.8 35.6#



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 64.95 (64.65 to 65.65): VDC

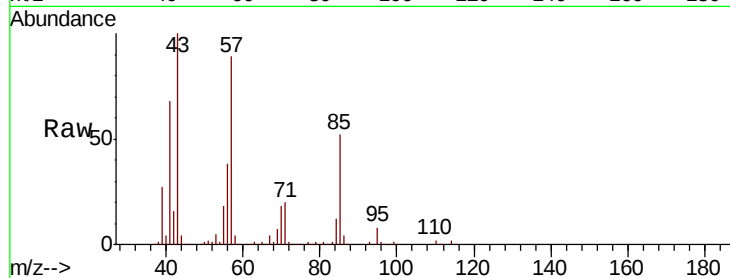




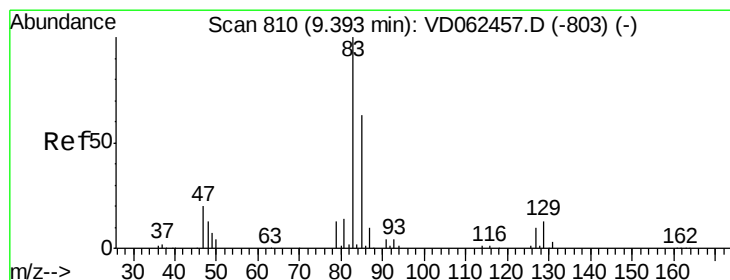
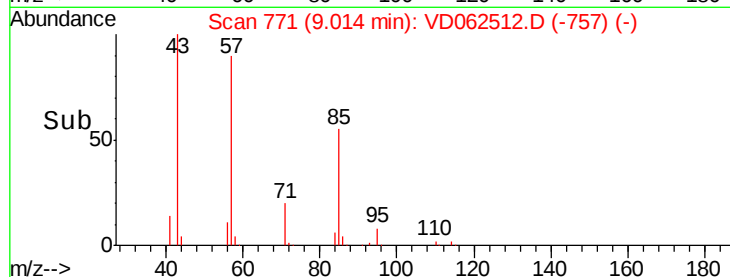
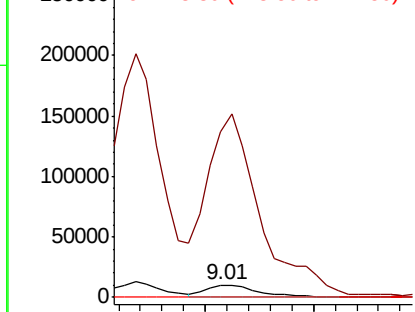
#46
Dibromomethane
Concen: 8.696 ug/l
RT: 9.01 min Scan# 771
Delta R.T. -0.06 min
Lab File: VD062512.D
Acq: 22 May 2019 19:29

Instrument :
MSVOA_D
ClientSampled :
P-10(0.5-1.0)

Tot Ion: 93 Resp: 31388
Ion Ratio Lower Upper
93 100
95 1315.4 64.8 97.2#
174 0.0 79.3 118.9#

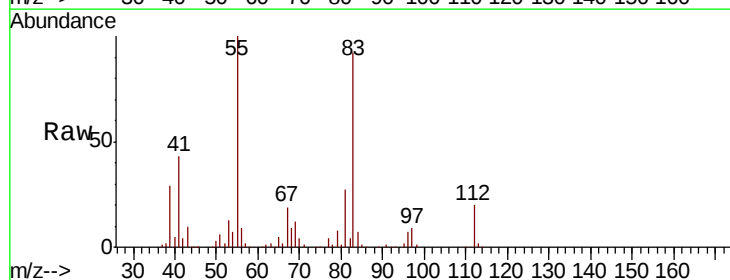


Abundance Ion 92.90 (92.60 to 93.60): VDC
Ion 94.90 (94.60 to 95.60): VDC
Ion 173.80 (173.50 to 174.50): V

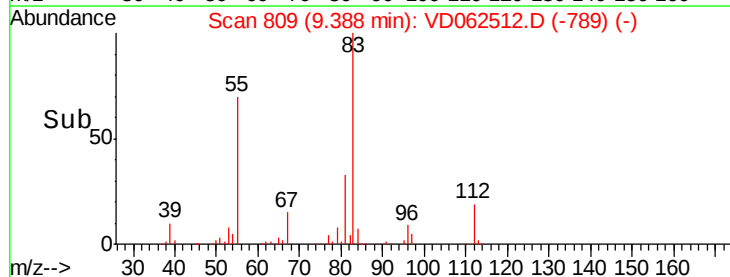
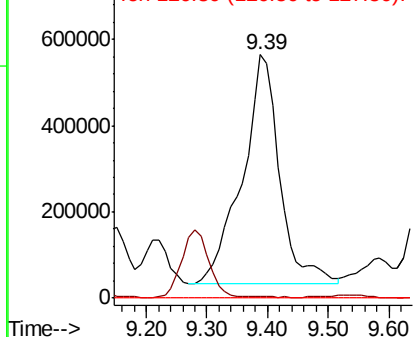


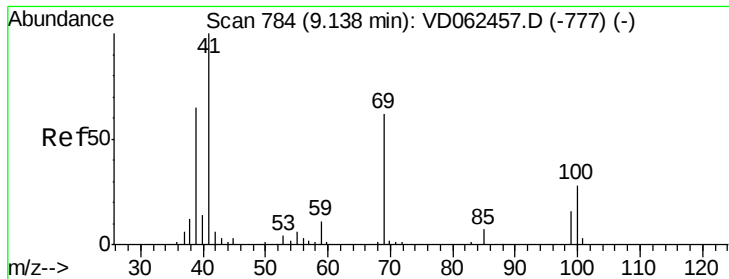
#47
Bromodichloromethane
Concen: 246.104 ug/l
RT: 9.39 min Scan# 809
Delta R.T. -0.01 min
Lab File: VD062512.D
Acq: 22 May 2019 19:29

Tgt Ion: 83 Resp: 2259888
Ion Ratio Lower Upper
83 100
85 0.6 50.9 76.3#
127 0.0 8.1 12.1#



Abundance Ion 82.85 (82.55 to 83.55): VDC
Ion 84.95 (84.65 to 85.65): VDC
Ion 126.80 (126.50 to 127.50): V





#48

Methyl methacrylate

Concen: 773.827 ug/l

RT: 9.15 min Scan# 785

Delta R.T. 0.01 min

Lab File: VD062512.D

Acq: 22 May 2019 19:29

Instrument :

MSVOA_D

ClientSampleId :

P-10(0.5-1.0)

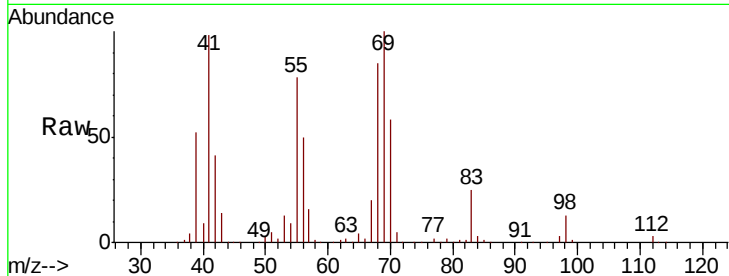
Tot Ion: 41 Resp: 2235692

Ion Ratio Lower Upper

41 100

69 101.8 64.2 96.2#

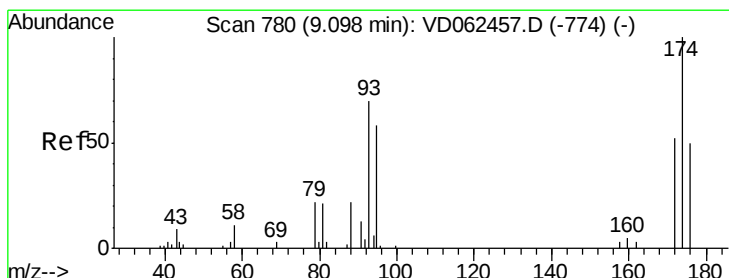
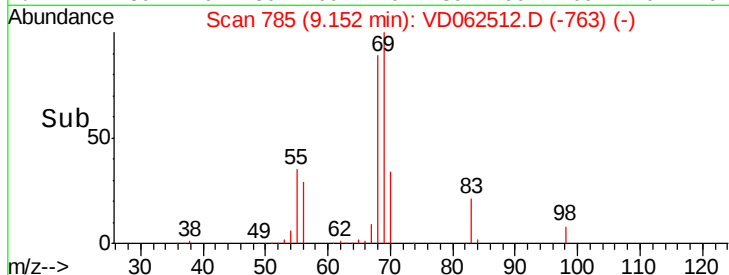
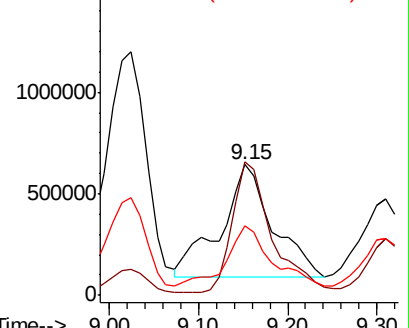
39 53.4 46.8 70.2



Abundance Ion 40.95 (40.65 to 41.65): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 38.95 (38.65 to 39.65): VDC



#49

1,4-Dioxane

Concen: 7.640 ug/l

RT: 8.84 min Scan# 753

Delta R.T. -0.26 min

Lab File: VD062512.D

Acq: 22 May 2019 19:29

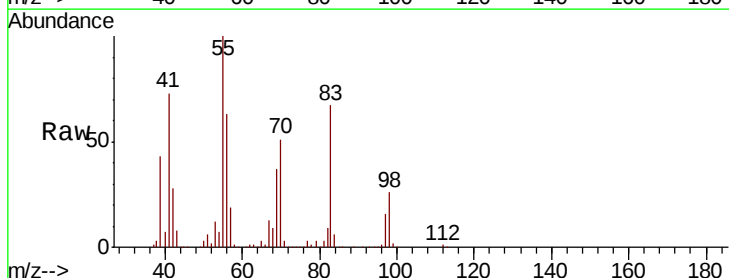
Tgt Ion: 88 Resp: 198

Ion Ratio Lower Upper

88 100

43 25566.6 23.4 35.0#

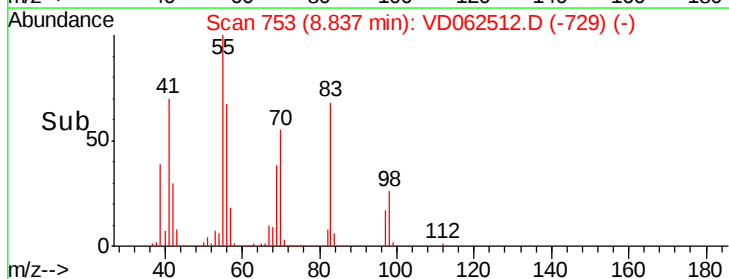
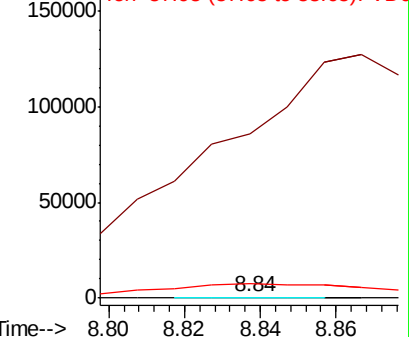
58 2309.6 44.0 66.0#

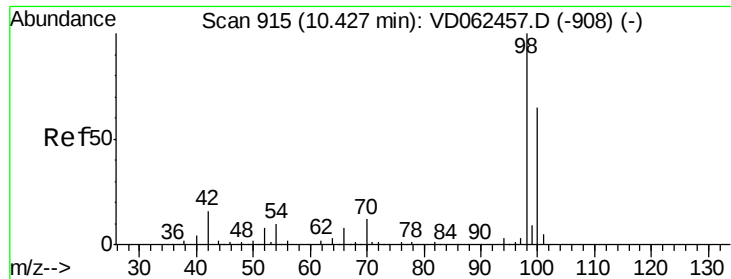


Abundance Ion 88.00 (87.70 to 88.70): VDC

Ion 43.05 (42.75 to 43.75): VDC

Ion 57.95 (57.65 to 58.65): VDC

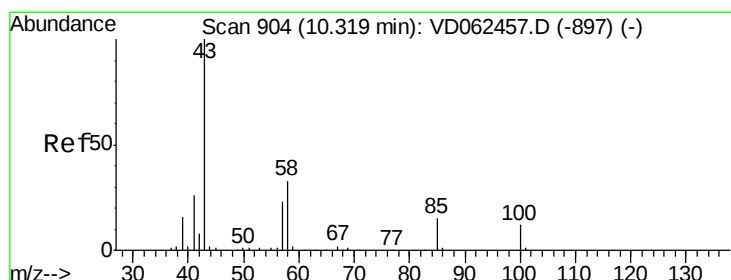
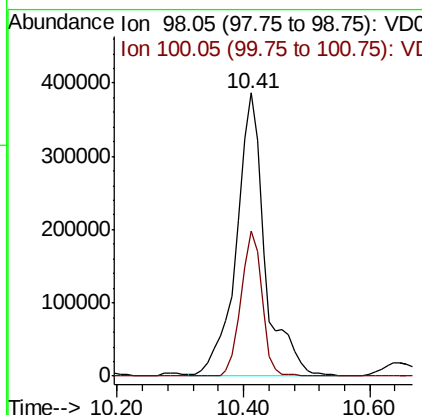
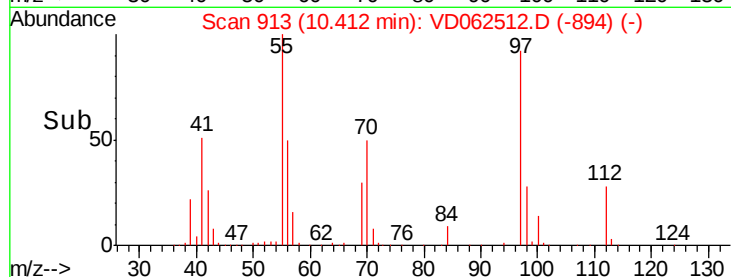
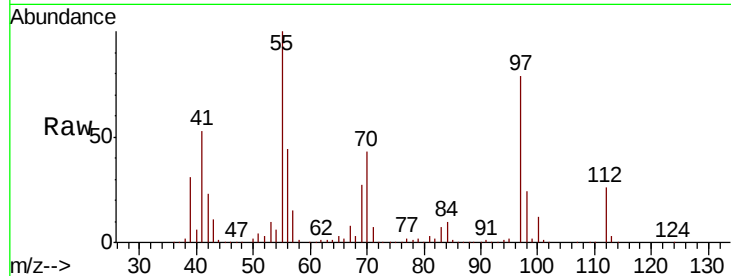




#50
Toluene-d8
Concen: 69.380 ug/l
RT: 10.41 min Scan# 913
Delta R.T. -0.02 min
Lab File: VD062512.D
Acq: 22 May 2019 19:29

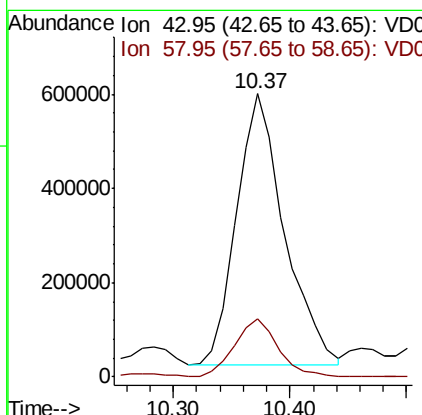
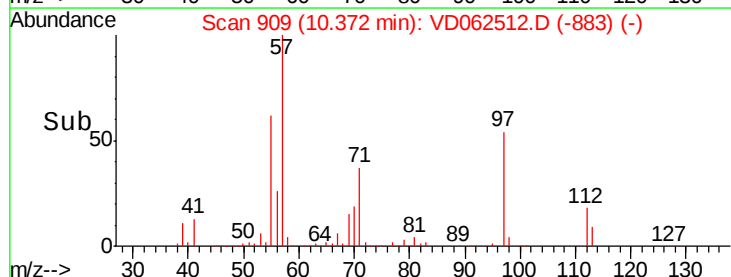
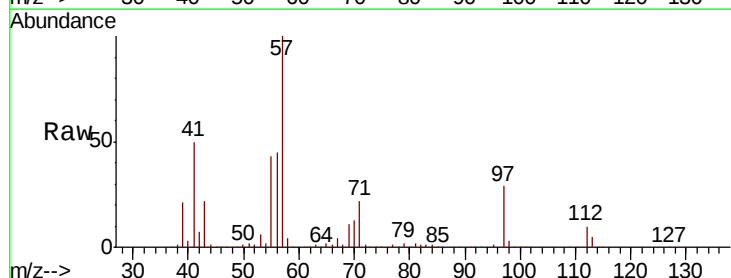
Instrument :
MSVOA_D
ClientSampleId :
P-10(0.5-1.0)

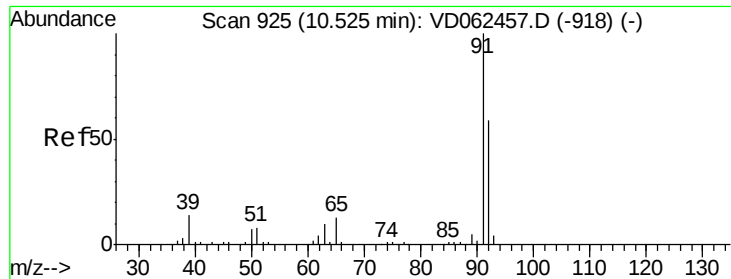
Tot Ion: 98 Resp: 1193454
Ion Ratio Lower Upper
98 100
100 51.5 53.8 80.8#



#51
4-Methyl-2-Pentanone
Concen: 575.114 ug/l
RT: 10.37 min Scan# 909
Delta R.T. 0.05 min
Lab File: VD062512.D
Acq: 22 May 2019 19:29

Tgt Ion: 43 Resp: 1631143
Ion Ratio Lower Upper
43 100
58 20.6 30.4 45.6#





#52

Toluene

Concen: 11.220 ug/l

RT: 10.50 min Scan# 922

Delta R.T. -0.03 min

Lab File: VD062512.D

Acq: 22 May 2019 19:29

Instrument :

MSVOA_D

ClientSampleId :

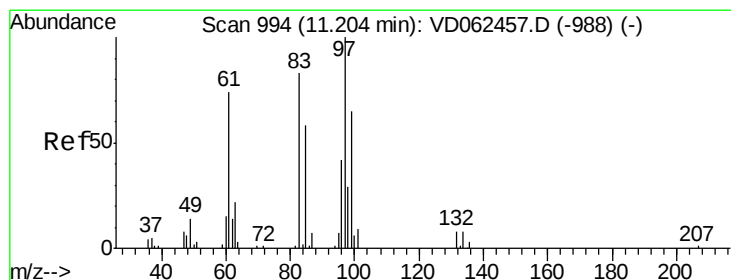
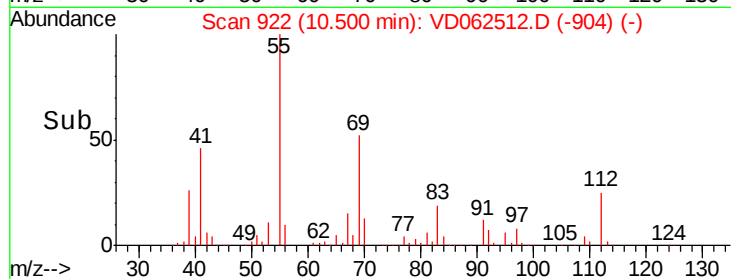
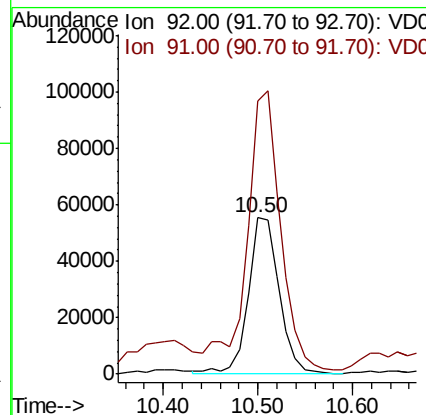
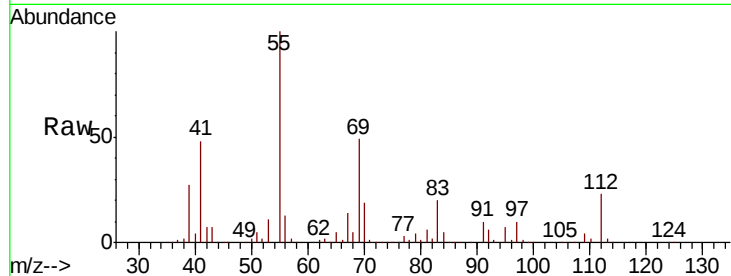
P-10(0.5-1.0)

Tot Ion: 92 Resp: 125513

Ion Ratio Lower Upper

92 100

91 175.2 136.6 204.8



#55

1,1,2-Trichloroethane

Concen: 790.058 ug/l

RT: 11.11 min Scan# 984

Delta R.T. -0.09 min

Lab File: VD062512.D

Acq: 22 May 2019 19:29

Tgt Ion: 97 Resp: 2995329

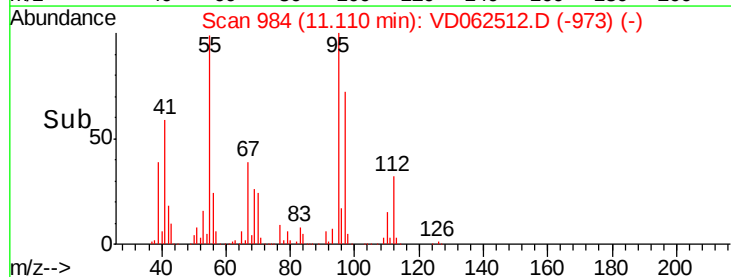
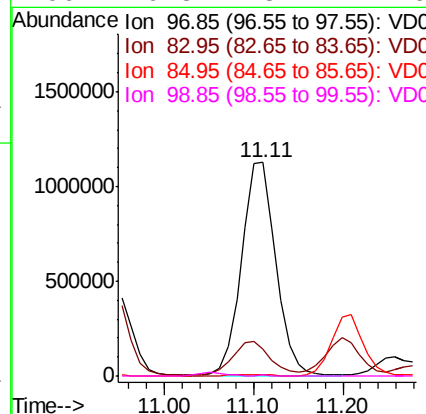
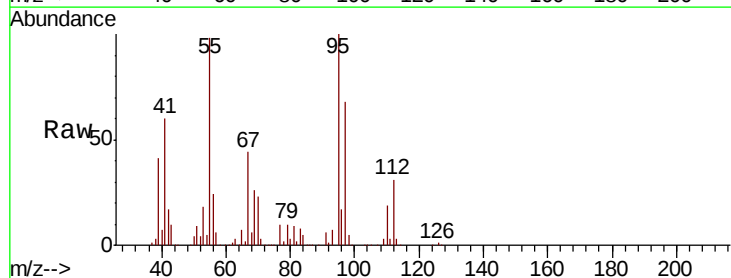
Ion Ratio Lower Upper

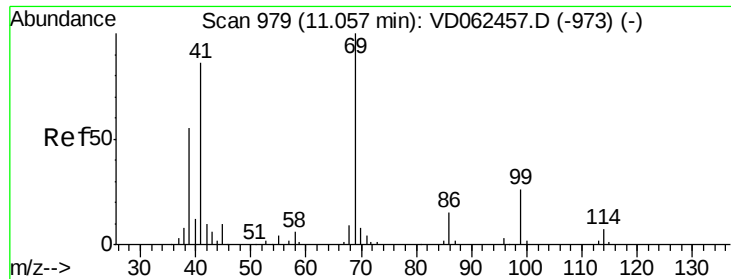
97 100

83 12.3 65.7 98.5#

85 0.6 45.6 68.4#

99 0.3 48.4 72.6#





#56

Ethyl methacrylate

Concen: 426.580 ug/l

RT: 11.10 min Scan# 983

Delta R.T. 0.04 min

Lab File: VD062512.D

Acq: 22 May 2019 19:29

Instrument :

MSVOA_D

ClientSampleId :

P-10(0.5-1.0)

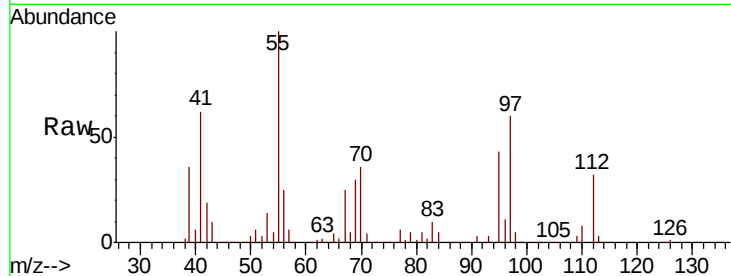
Tot Ion: 69 Resp: 1728922

Ion Ratio Lower Upper

69 100

41 209.7 56.3 84.5#

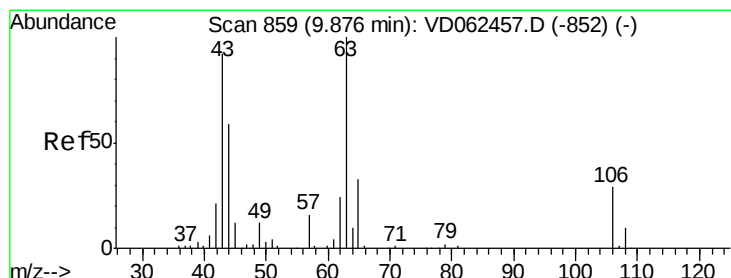
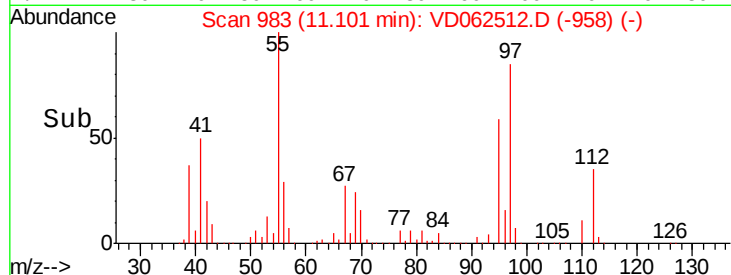
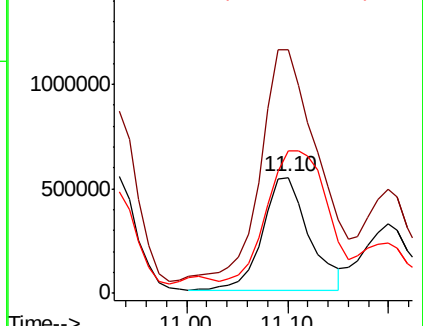
39 123.0 29.4 44.2#



Abundance Ion 69.00 (68.70 to 69.70): VDC

Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC



#58

2-Chloroethyl Vinyl ether

Concen: 29.858 ug/l

RT: 9.96 min Scan# 867

Delta R.T. 0.08 min

Lab File: VD062512.D

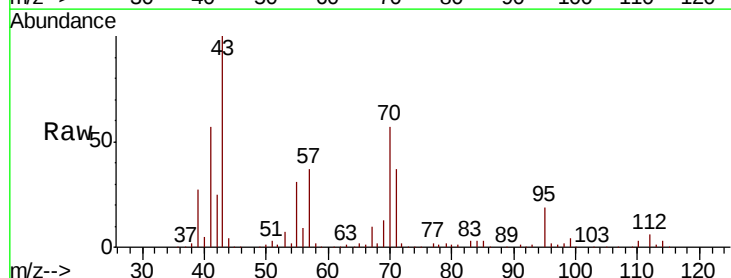
Acq: 22 May 2019 19:29

Tgt Ion: 63 Resp: 62139

Ion Ratio Lower Upper

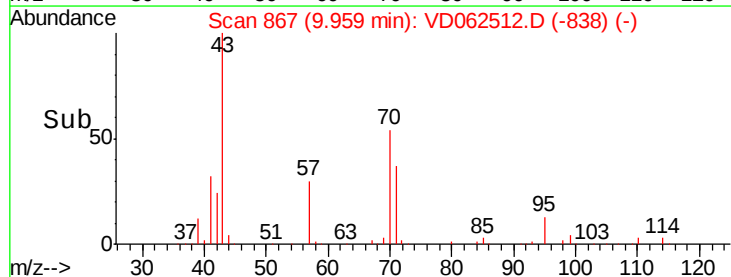
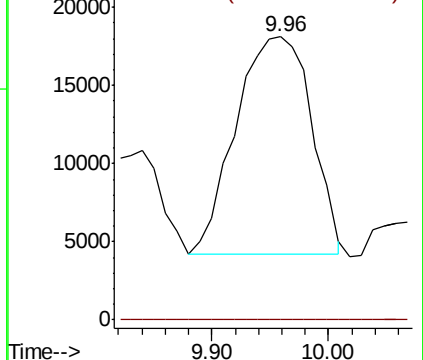
63 100

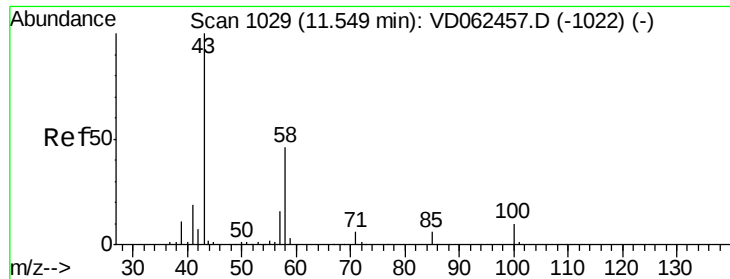
106 0.0 22.6 34.0#



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 105.95 (105.65 to 106.65): V

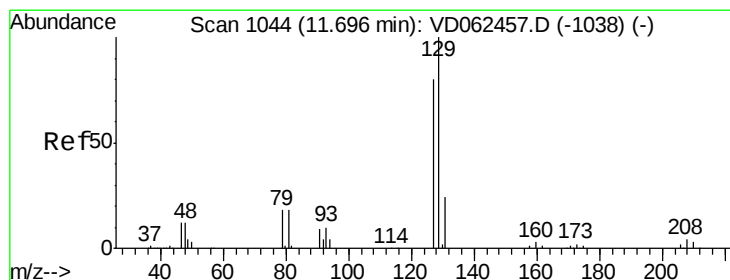
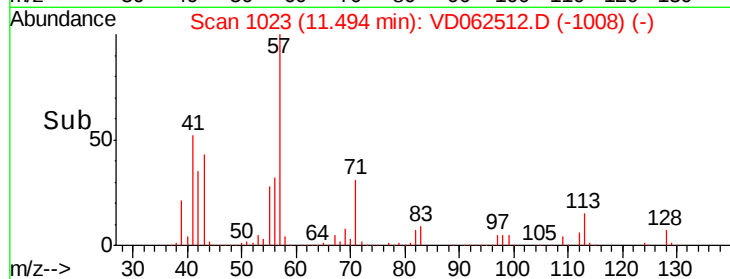
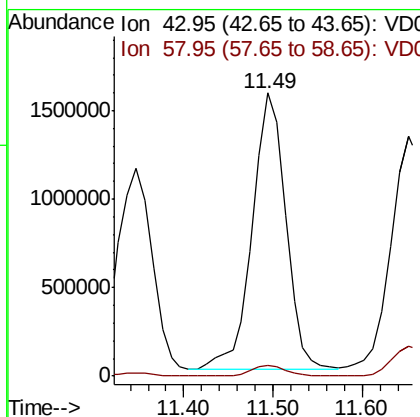
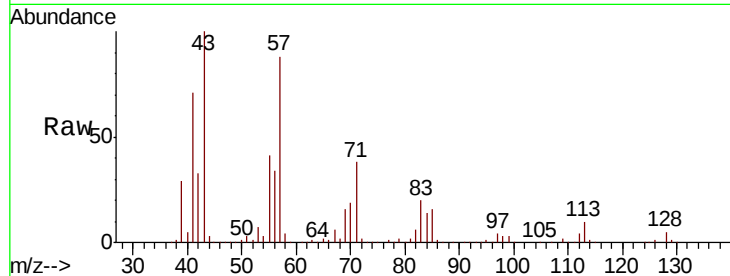




#59
2-Hexanone
Concen: 1980.583 ug/l
RT: 11.49 min Scan# 1023
Delta R.T. -0.05 min
Lab File: VD062512.D
Acq: 22 May 2019 19:29

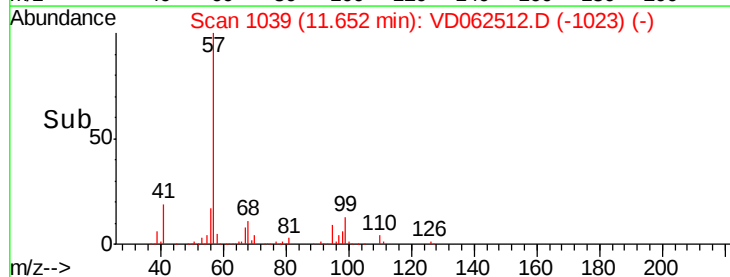
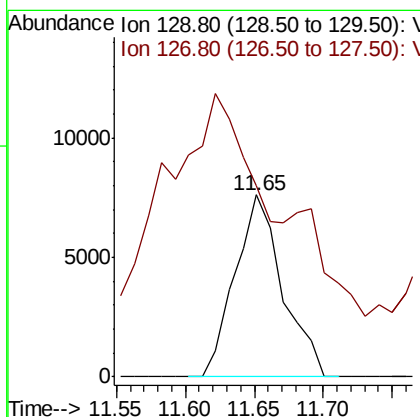
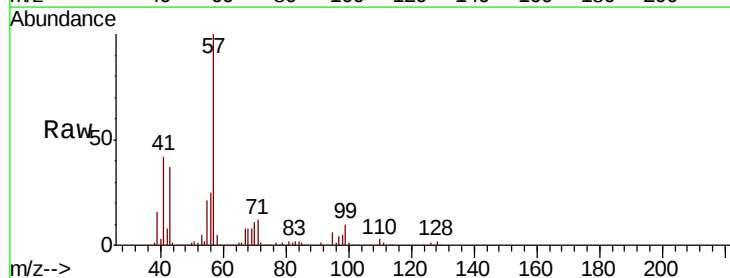
Instrument :
MSVOA_D
ClientSampleId :
P-10(0.5-1.0)

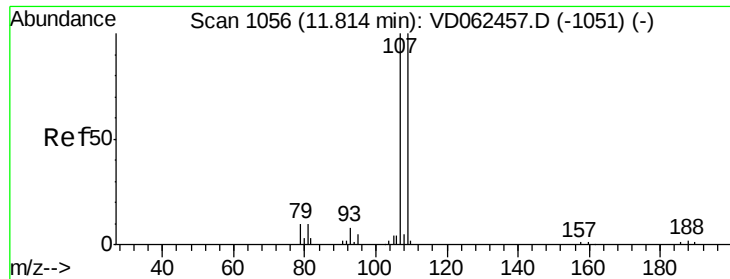
Tot Ion: 43 Resp: 4082575
Ion Ratio Lower Upper
43 100
58 3.8 25.4 76.4#



#60
Dibromochloromethane
Concen: 2.508 ug/l
RT: 11.65 min Scan# 1039
Delta R.T. -0.04 min
Lab File: VD062512.D
Acq: 22 May 2019 19:29

Tgt Ion:129 Resp: 18260
Ion Ratio Lower Upper
129 100
127 104.9 38.0 113.9





#61

1,2-Dibromoethane

Concen: 1.280 ug/l

RT: 11.75 min Scan# 1049

Delta R.T. -0.06 min

Lab File: VD062512.D

Acq: 22 May 2019 19:29

Instrument :

MSVOA_D

ClientSampleId :

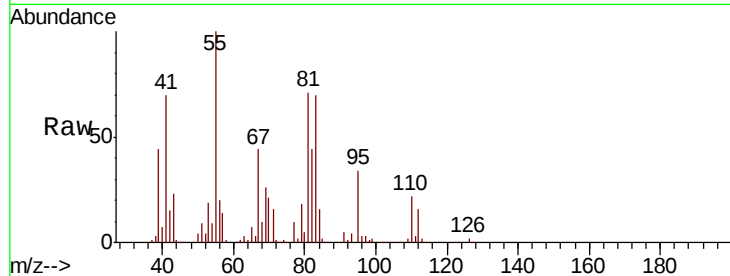
P-10(0.5-1.0)

Tot Ion: 107 Resp: 5982

Ion Ratio Lower Upper

107 100

109 912.8 78.3 117.5#



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.90 (108.60 to 109.60): V

250000

200000

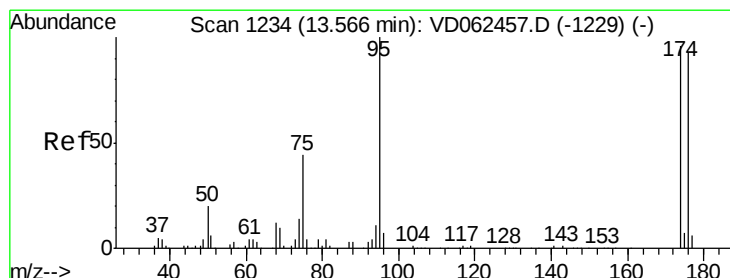
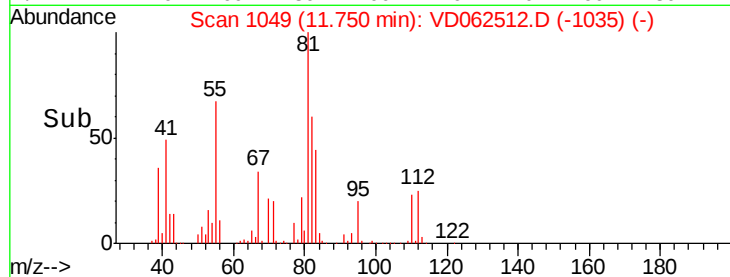
150000

100000

50000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 67.150 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. -0.02 min

Lab File: VD062512.D

Acq: 22 May 2019 19:29

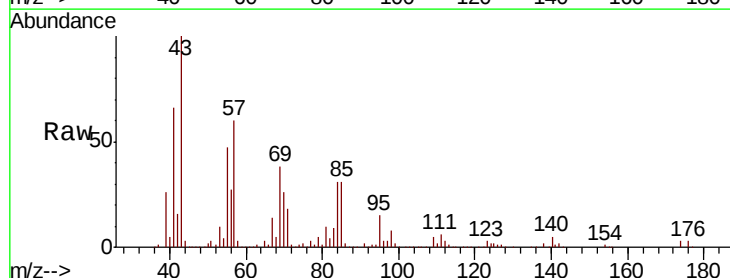
Tgt Ion: 95 Resp: 505279

Ion Ratio Lower Upper

95 100

174 20.5 0.0 181.8

176 20.4 0.0 174.4



Abundance Ion 95.00 (94.70 to 95.70): V

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V

400000

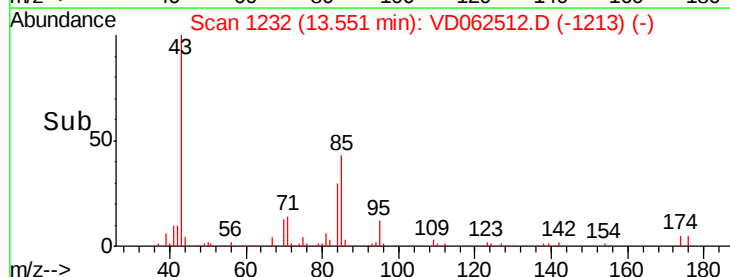
300000

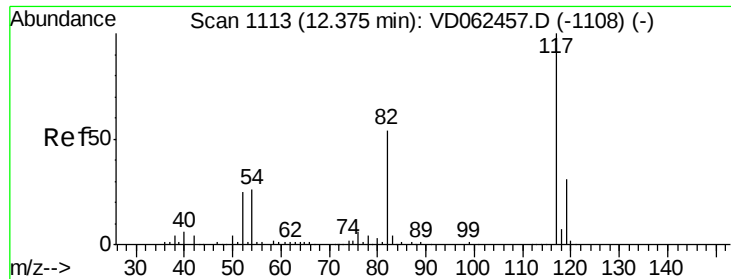
200000

100000

0

Time-->

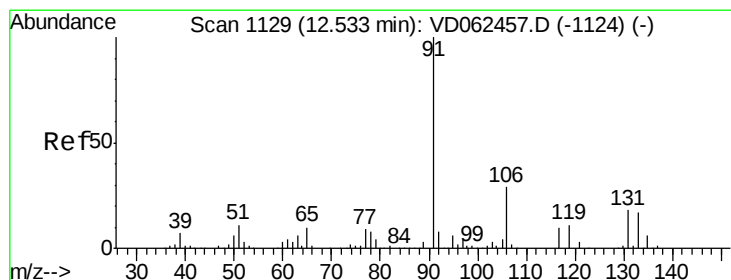
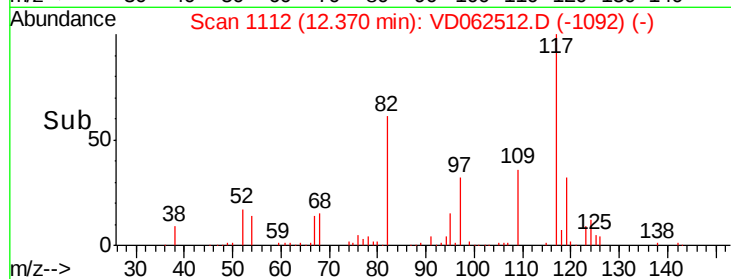
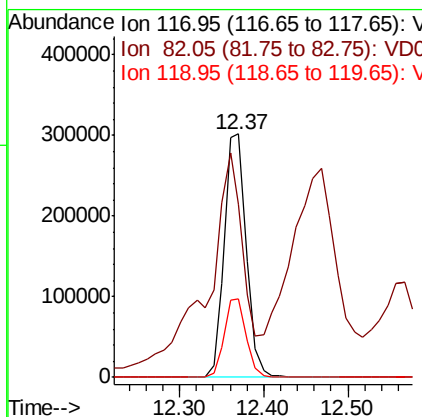
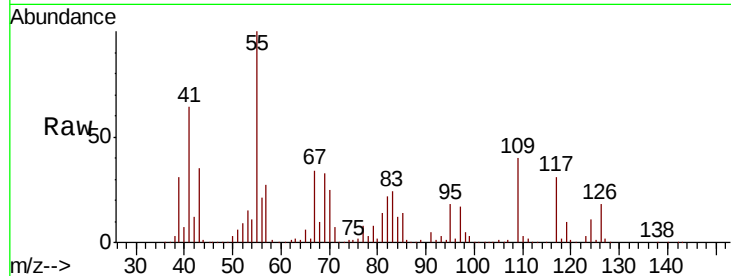




#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 12.37 min Scan# 1112
 Delta R.T. -0.01 min
 Lab File: VD062512.D
 Acq: 22 May 2019 19:29

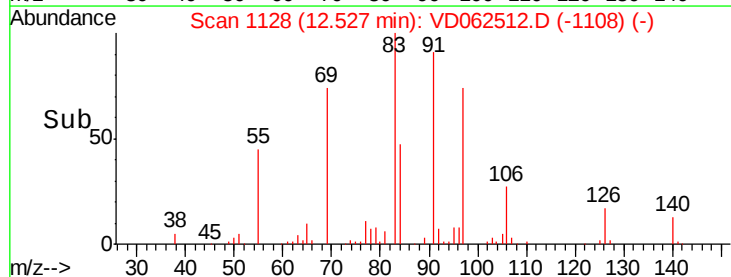
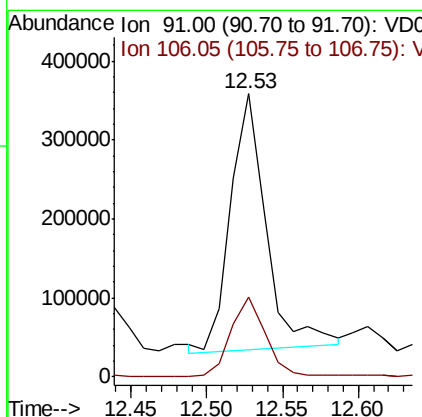
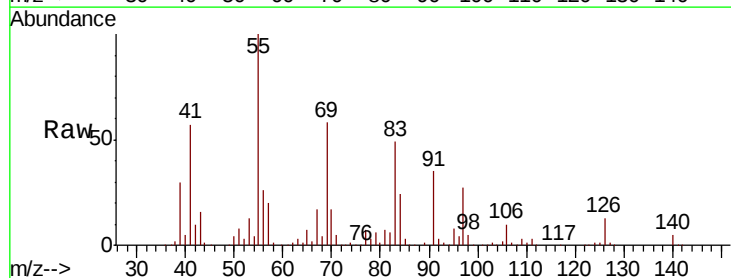
Instrument :
 MSVOA_D
 ClientSampleId :
 P-10(0.5-1.0)

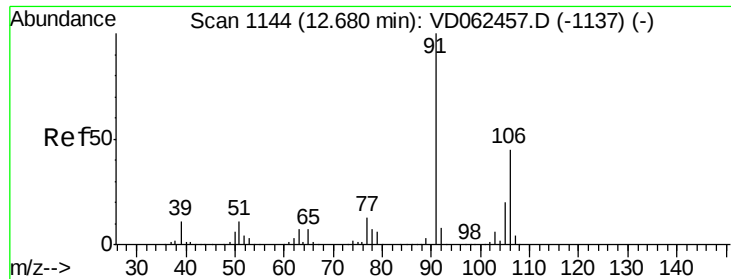
Tot Ion	Ratio	Lower	Upper
117	100		
82	71.2	36.2	54.2#
119	32.2	26.2	39.4



#67
 Ethyl Benzene
 Concen: 29.291 ug/l
 RT: 12.53 min Scan# 1128
 Delta R.T. -0.01 min
 Lab File: VD062512.D
 Acq: 22 May 2019 19:29

Tgt Ion	Ratio	Lower	Upper
91	100		
106	28.4	24.7	37.1

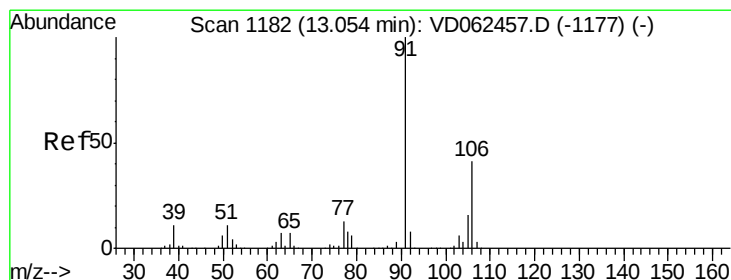
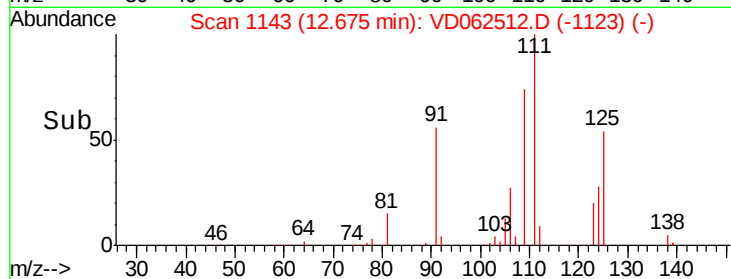
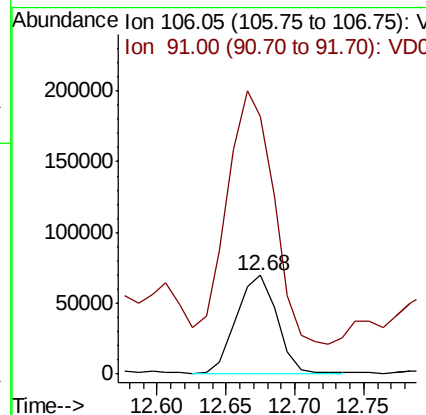
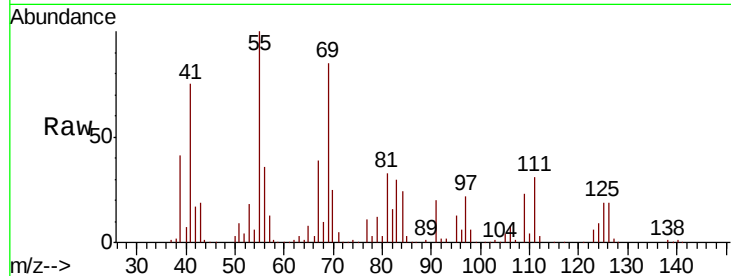




#68
m/p-Xylenes
Concen: 22.142 ug/l
RT: 12.68 min Scan# 1143
Delta R.T. -0.01 min
Lab File: VD062512.D
Acq: 22 May 2019 19:29

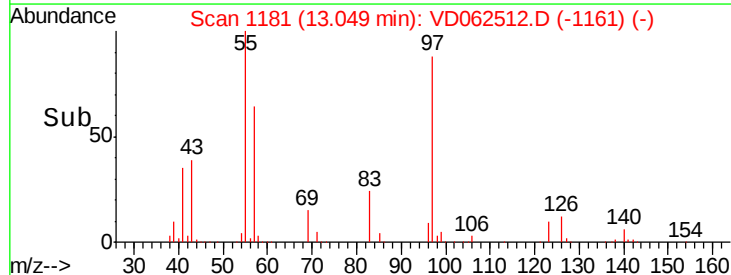
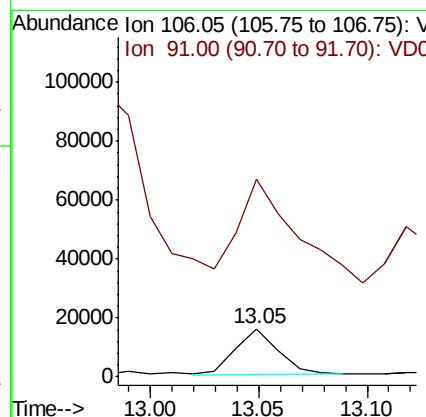
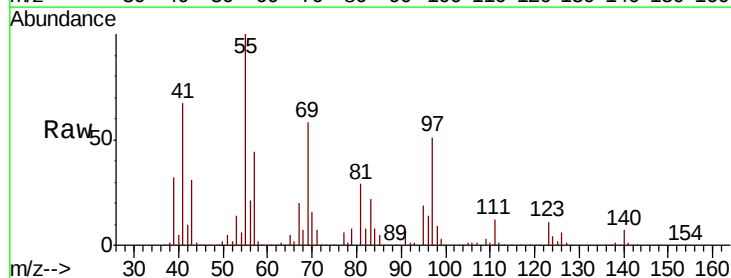
Instrument :
MSVOA_D
ClientSampleId :
P-10(0.5-1.0)

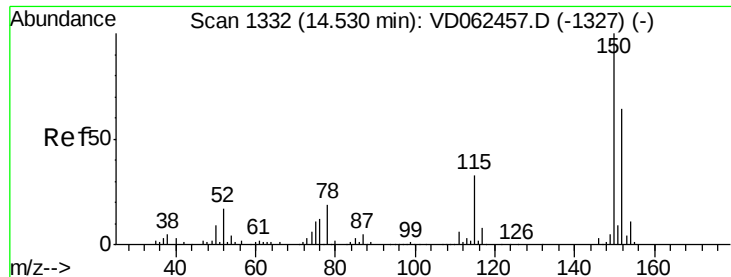
Tot Ion:106 Resp: 144089
Ion Ratio Lower Upper
106 100
91 260.6 164.0 246.0#



#69
o-Xylene
Concen: 3.548 ug/l
RT: 13.05 min Scan# 1181
Delta R.T. -0.01 min
Lab File: VD062512.D
Acq: 22 May 2019 19:29

Tgt Ion:106 Resp: 21783
Ion Ratio Lower Upper
106 100
91 408.2 106.7 319.9#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.52 min Scan# 1330

Delta R.T. -0.02 min

Lab File: VD062512.D

Acq: 22 May 2019 19:29

Instrument :

MSVOA_D

ClientSampleId :

P-10(0.5-1.0)

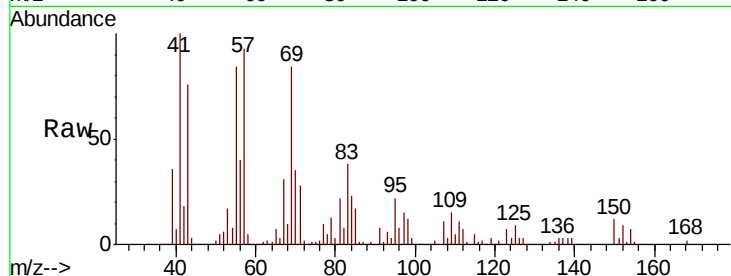
Tot Ion:152 Resp: 119525

Ion Ratio Lower Upper

152 100

115 56.0 30.9 92.7

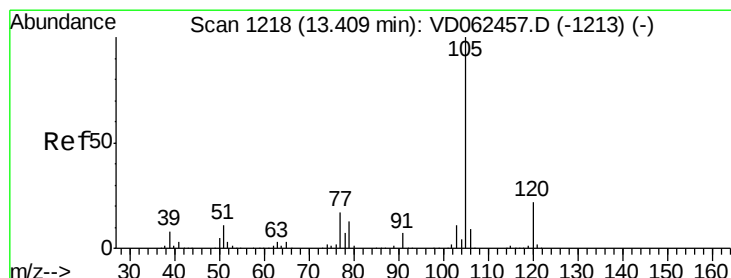
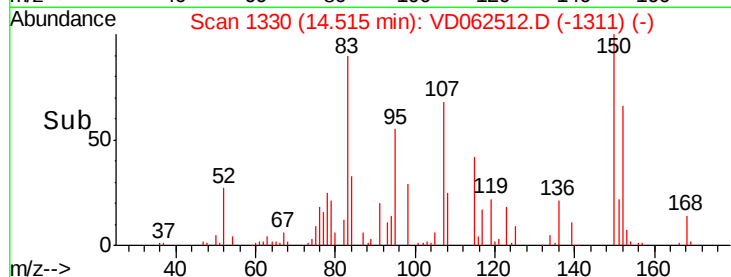
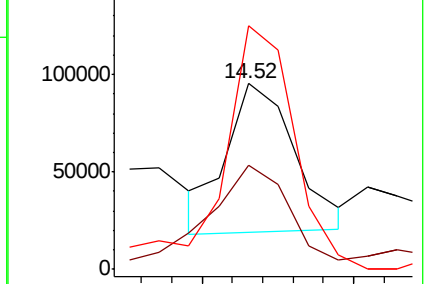
150 131.0 0.0 314.8



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: 357.321 ug/l

RT: 13.41 min Scan# 1218

Delta R.T. 0.00 min

Lab File: VD062512.D

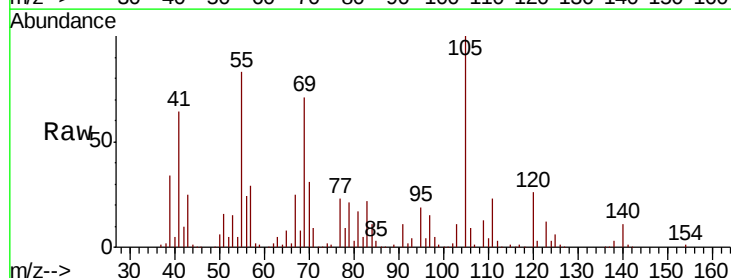
Acq: 22 May 2019 19:29

Tgt Ion:105 Resp: 2692096

Ion Ratio Lower Upper

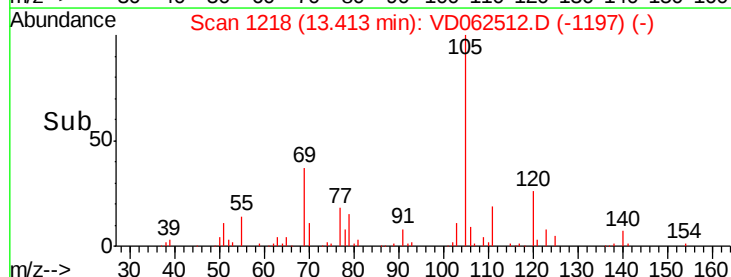
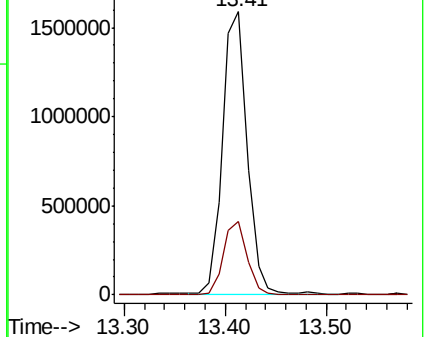
105 100

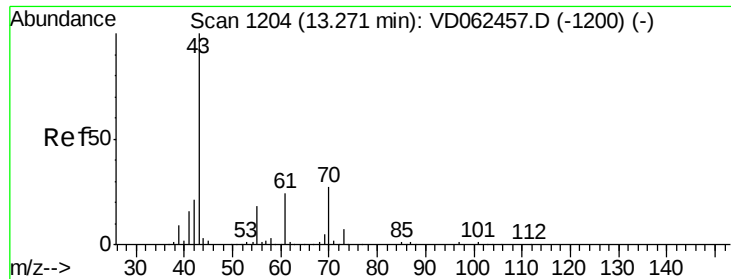
120 26.1 12.0 36.1



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V





#74

N-amvl acetate

Concen: 1517.146 ug/l

RT: 13.24 min Scan# 1200

Delta R.T. -0.03 min

Lab File: VD062512.D

Acq: 22 May 2019 19:29

Instrument :

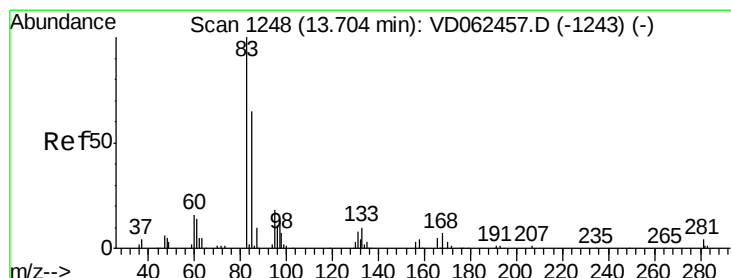
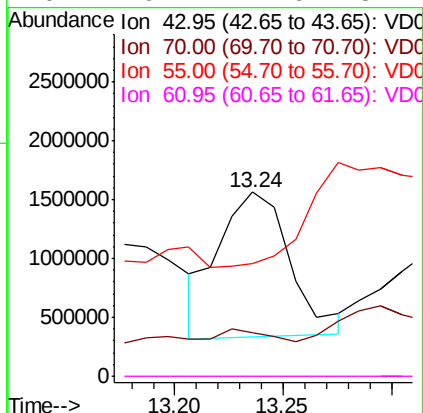
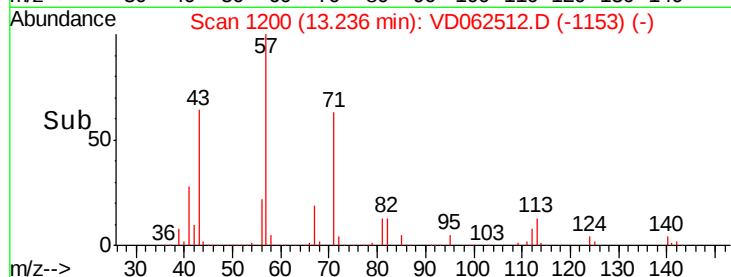
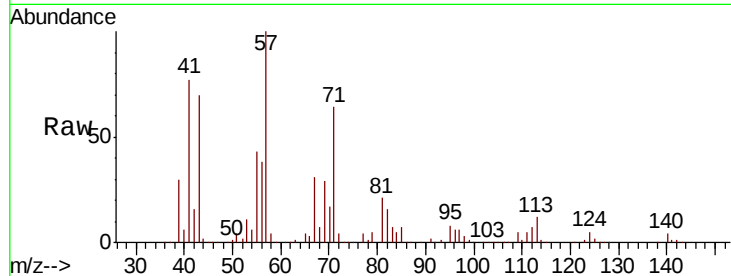
MSVOA_D

ClientSampleId :

P-10(0.5-1.0)

Tot Ion: 43 Resp: 2823102

Ion	Ratio	Lower	Upper
43	100		
70	23.6	24.2	36.4#
55	61.3	16.0	24.0#
61	0.2	21.6	32.4#



#75

1,1,2,2-Tetrachloroethane

Concen: 367.067 ug/l

RT: 13.70 min Scan# 1247

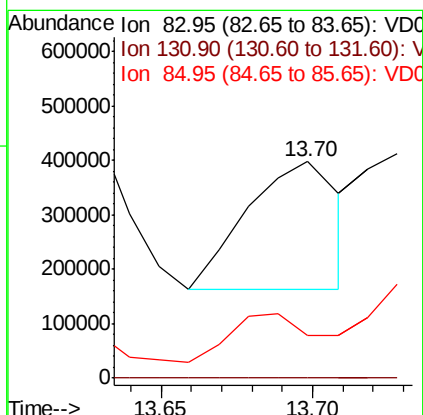
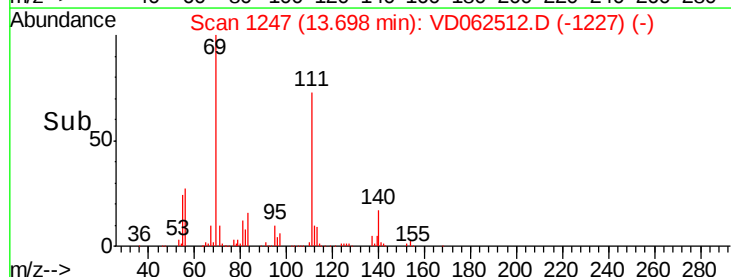
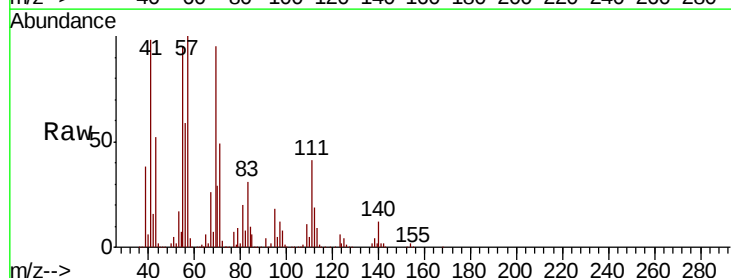
Delta R.T. -0.01 min

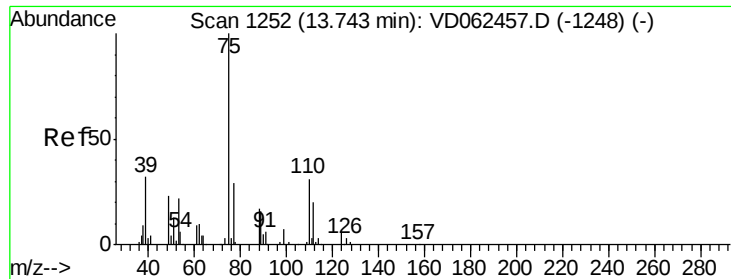
Lab File: VD062512.D

Acq: 22 May 2019 19:29

Tgt Ion: 83 Resp: 498921

Ion	Ratio	Lower	Upper
83	100		
131	0.0	5.0	14.9#
85	19.9	32.6	97.7#





#76

1,2,3-Trichloropropane

Concen: 1.050 ug/l

RT: 13.73 min Scan# 1250

Delta R.T. -0.02 min

Lab File: VD062512.D

Acq: 22 May 2019 19:29

Instrument :

MSVOA_D

ClientSampleId :

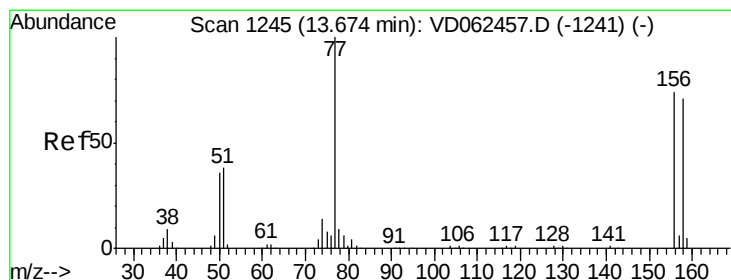
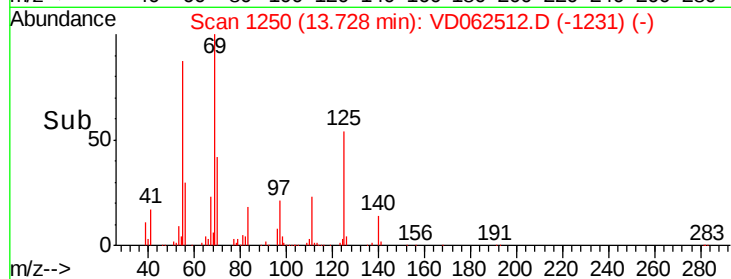
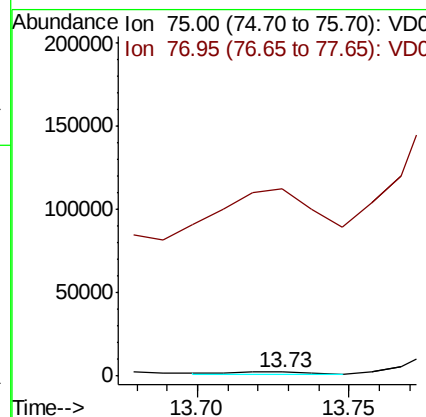
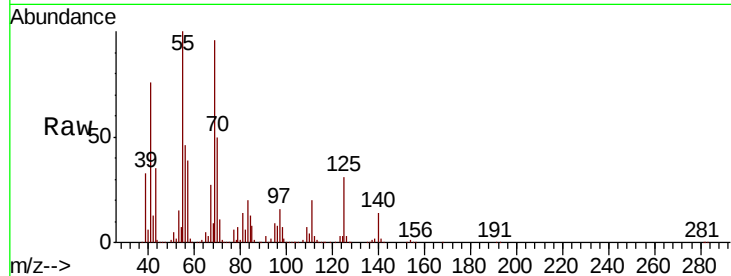
P-10(0.5-1.0)

Tot Ion: 75 Resp: 1478

Ion Ratio Lower Upper

75 100

77 4894.5 16.4 49.4#



#77

Bromobenzene

Concen: 2.578 ug/l

RT: 13.61 min Scan# 1238

Delta R.T. -0.06 min

Lab File: VD062512.D

Acq: 22 May 2019 19:29

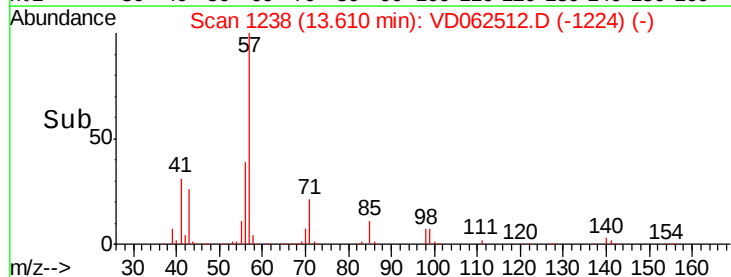
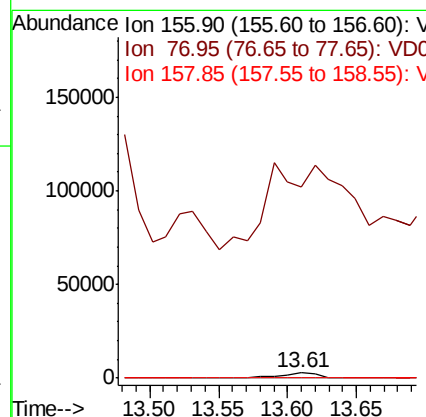
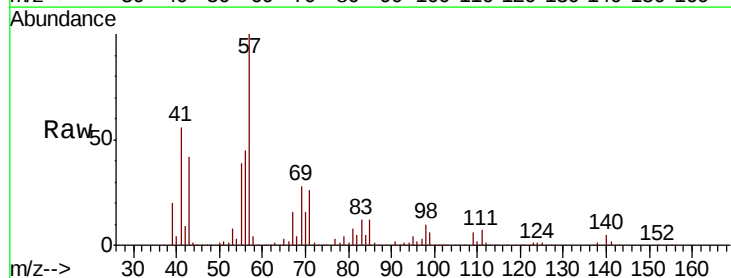
Tgt Ion: 156 Resp: 5509

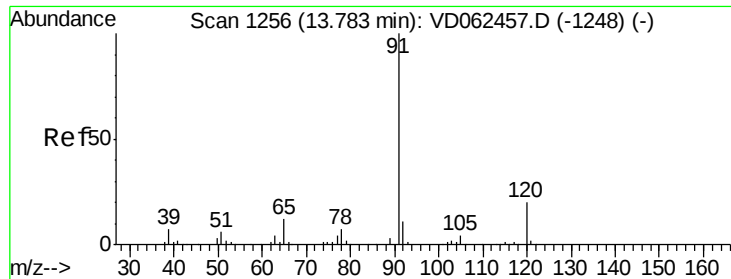
Ion Ratio Lower Upper

156 100

77 3823.1 53.1 159.4#

158 0.0 49.4 148.0#

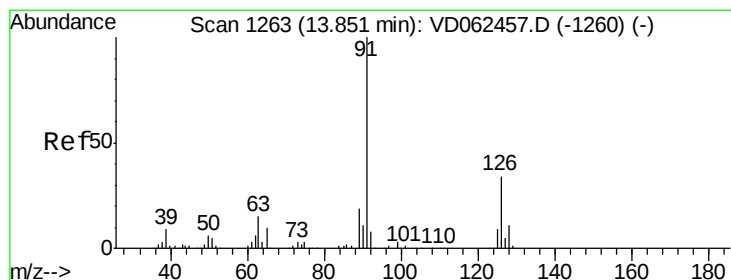
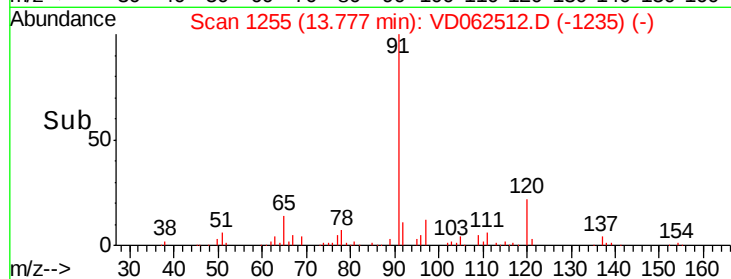
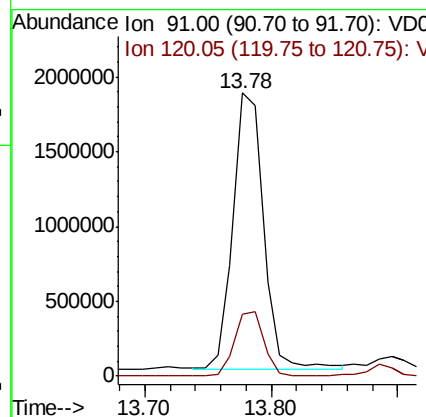
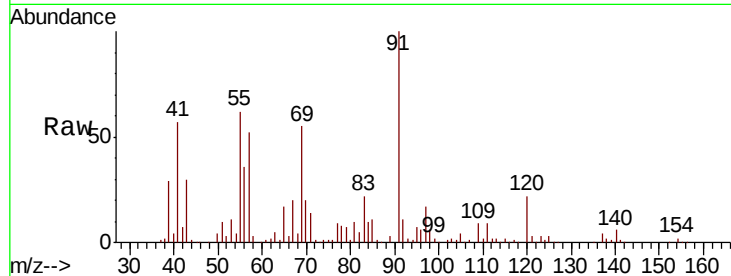




#78
n-propylbenzene
Concen: 353.955 ug/l
RT: 13.78 min Scan# 1255
Delta R.T. -0.01 min
Lab File: VD062512.D
Acq: 22 May 2019 19:29

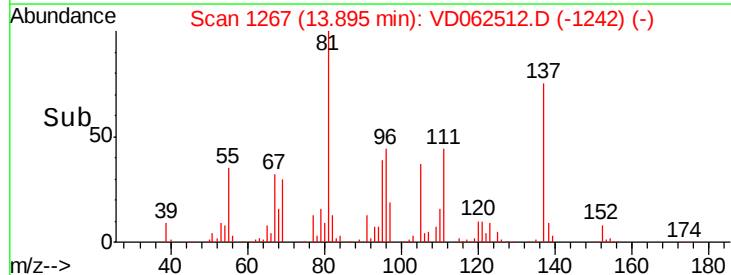
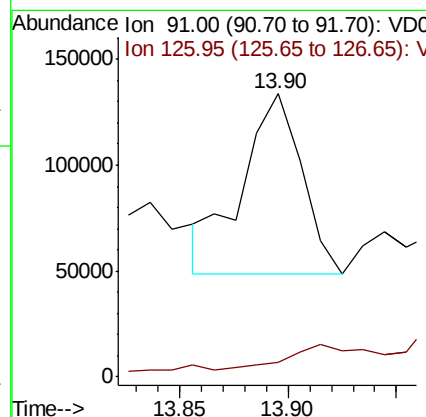
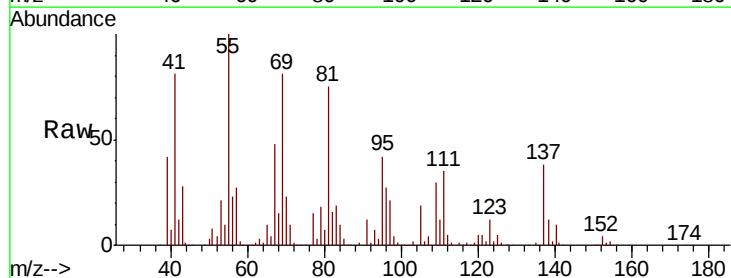
Instrument :
MSVOA_D
ClientSampleId :
P-10(0.5-1.0)

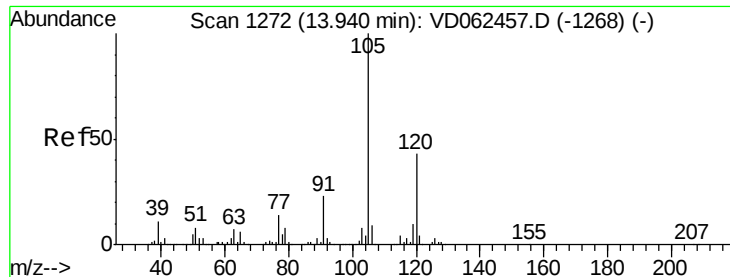
Tot Ion: 91 Resp: 3088973
Ion Ratio Lower Upper
91 100
120 21.8 11.1 33.1



#79
2-Chlorotoluene
Concen: 30.586 ug/l
RT: 13.90 min Scan# 1267
Delta R.T. 0.04 min
Lab File: VD062512.D
Acq: 22 May 2019 19:29

Tgt Ion: 91 Resp: 161985
Ion Ratio Lower Upper
91 100
126 5.3 18.6 55.8#

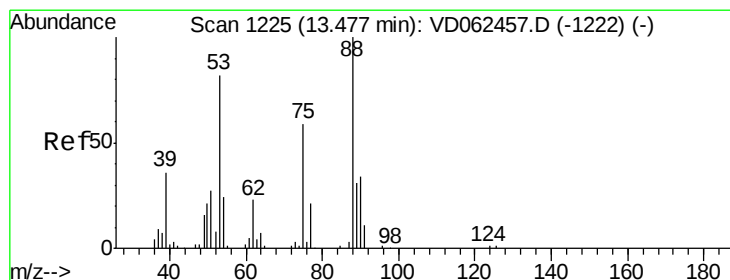
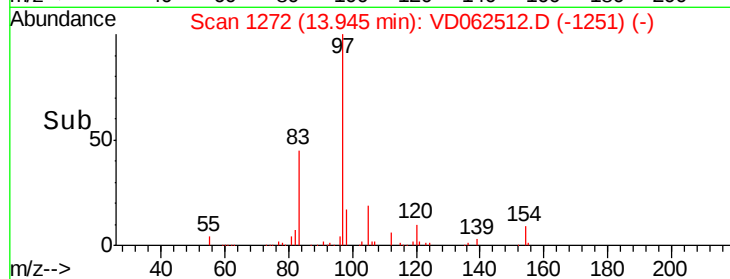
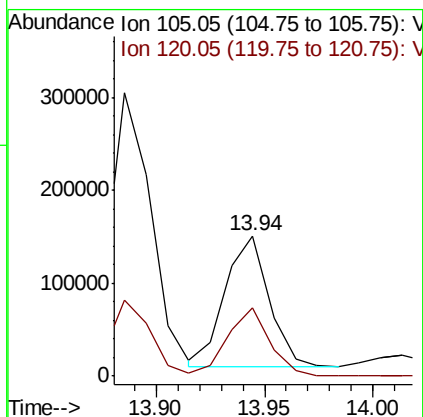
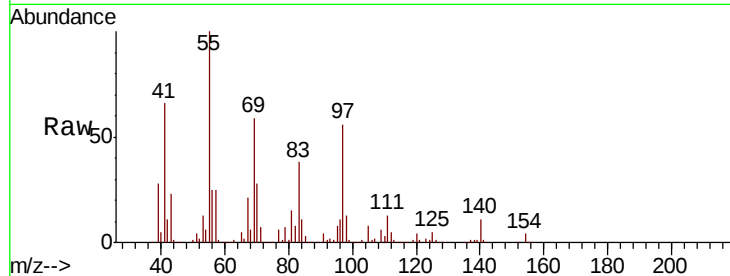




#80
 1,3,5-Trimethylbenzene
 Concen: 30.670 ug/l
 RT: 13.94 min Scan# 1272
 Delta R.T. 0.00 min
 Lab File: VD062512.D
 Acq: 22 May 2019 19:29

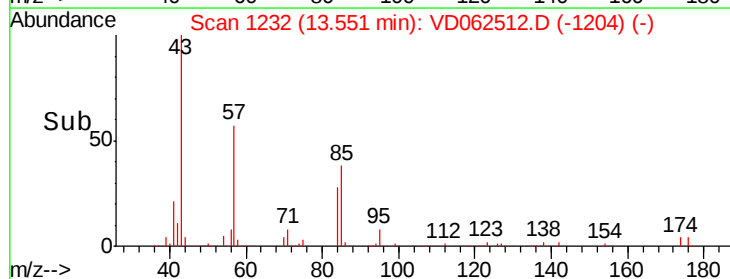
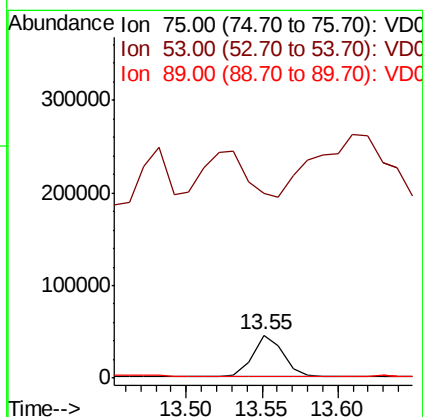
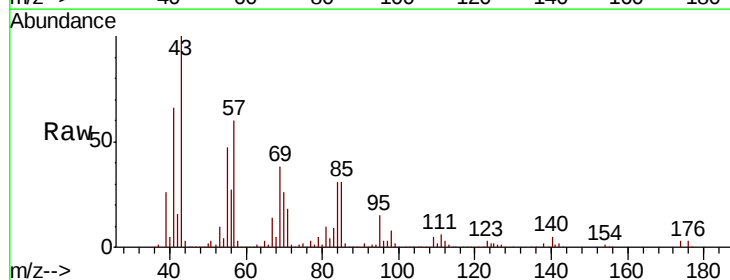
Instrument :
 MSVOA_D
 ClientSampleId :
 P-10(0.5-1.0)

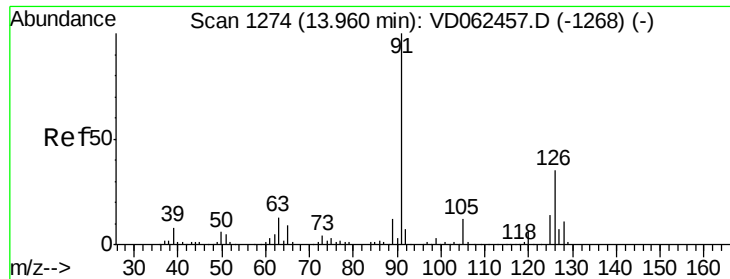
Tot Ion:105 Resp: 200074
 Ion Ratio Lower Upper
 105 100
 120 48.5 24.0 72.0



#81
 trans-1,4-Dichloro-2-butene
 Concen: 161.363 ug/l
 RT: 13.55 min Scan# 1232
 Delta R.T. 0.07 min
 Lab File: VD062512.D
 Acq: 22 May 2019 19:29

Tgt Ion: 75 Resp: 64070
 Ion Ratio Lower Upper
 75 100
 53 427.6 65.8 98.8#
 89 3.2 35.0 52.6#





#82

4-Chlorotoluene

Concen: 14.462 ug/l

RT: 14.01 min Scan# 1279

Delta R.T. 0.05 min

Lab File: VD062512.D

Acq: 22 May 2019 19:29

Instrument :

MSVOA_D

ClientSampleId :

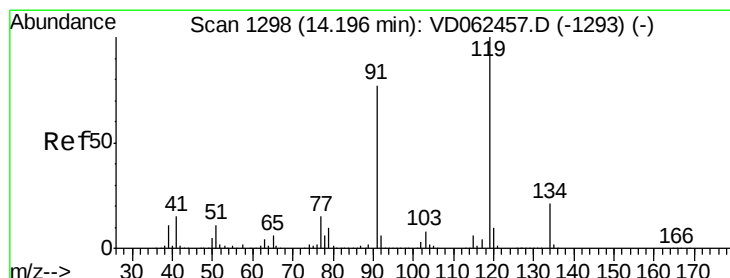
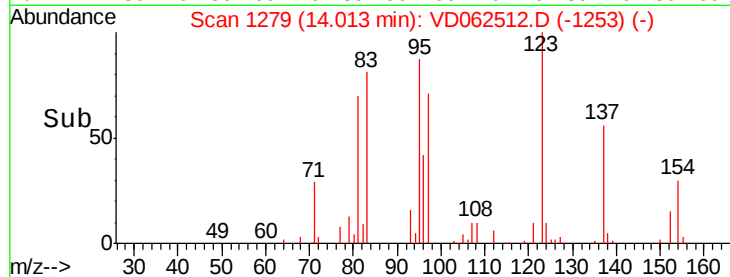
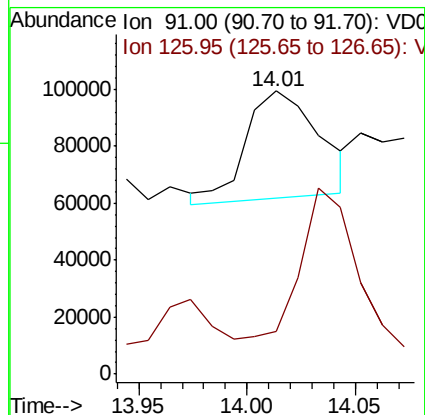
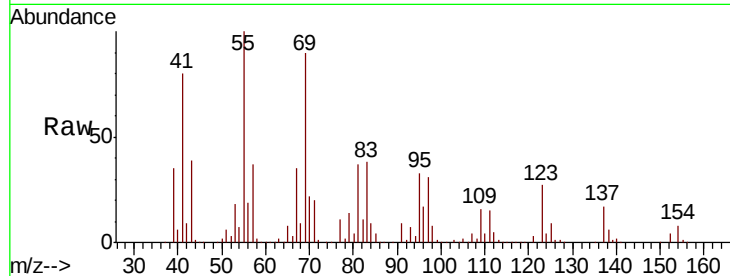
P-10(0.5-1.0)

Tot Ion: 91 Resp: 88208

Ion Ratio Lower Upper

91 100

126 15.0 19.1 57.5#



#83

tert-Butylbenzene

Concen: 16.136 ug/l

RT: 14.19 min Scan# 1297

Delta R.T. -0.01 min

Lab File: VD062512.D

Acq: 22 May 2019 19:29

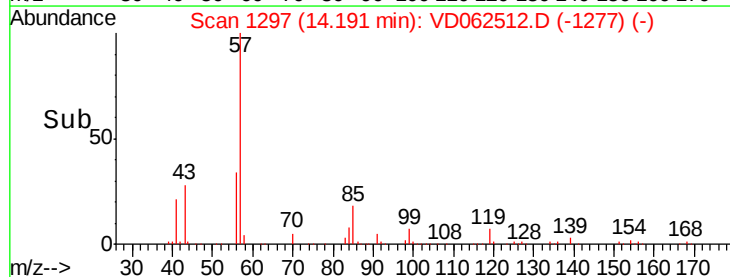
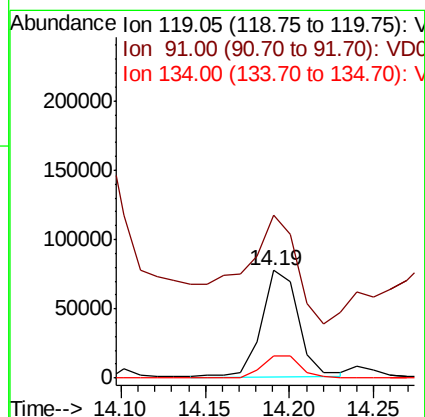
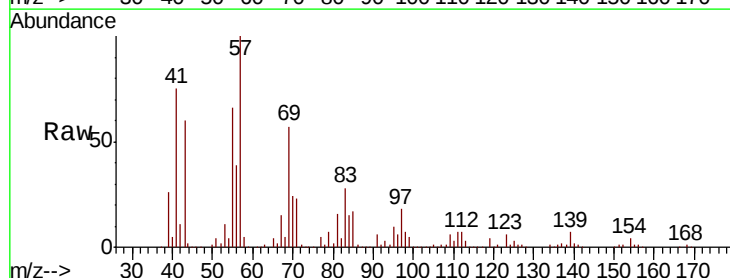
Tgt Ion: 119 Resp: 116759

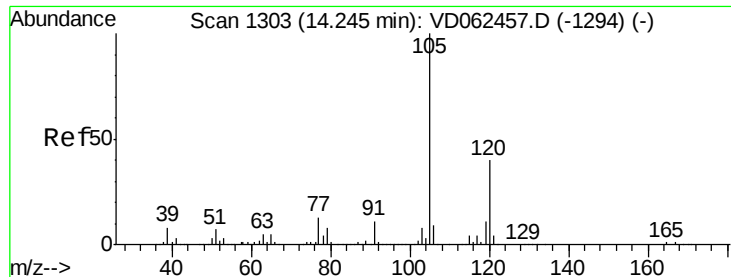
Ion Ratio Lower Upper

119 100

91 151.8 34.2 102.6#

134 20.1 12.0 36.0





#84

1,2,4-Trimethylbenzene

Concen: 11.896 ug/l

RT: 14.24 min Scan# 1302

Delta R.T. -0.01 min

Lab File: VD062512.D

Acq: 22 May 2019 19:29

Instrument :

MSVOA_D

ClientSampleId :

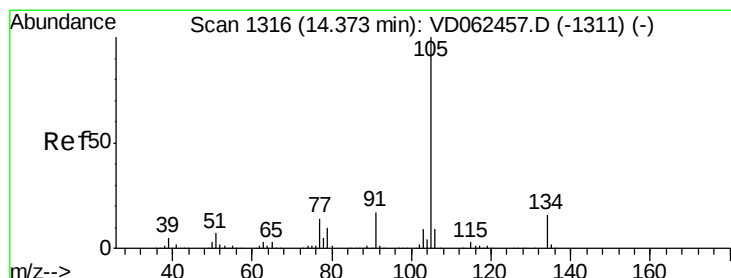
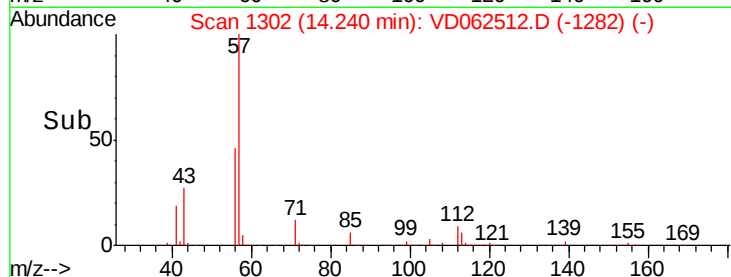
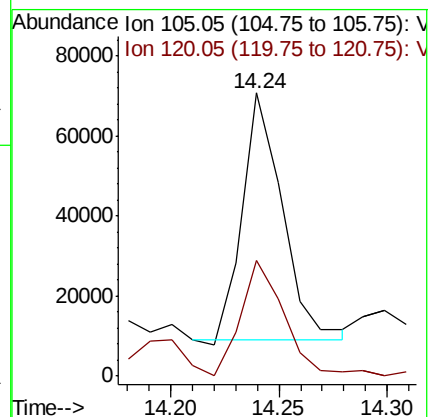
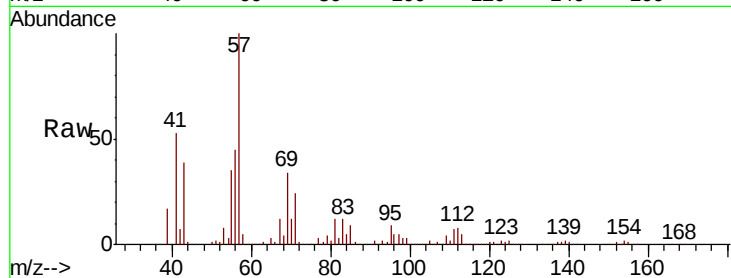
P-10(0.5-1.0)

Tot Ion:105 Resp: 79520

Ion Ratio Lower Upper

105 100

120 40.8 23.1 69.2



#85

sec-Butylbenzene

Concen: 85.258 ug/l

RT: 14.37 min Scan# 1315

Delta R.T. -0.01 min

Lab File: VD062512.D

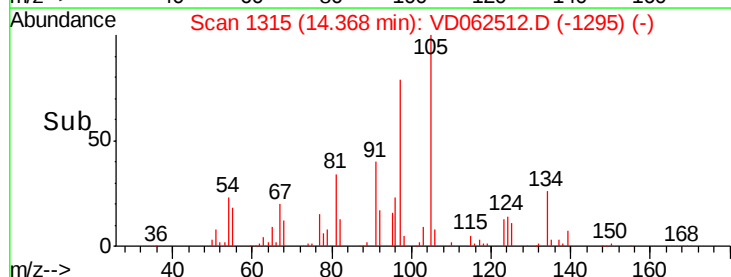
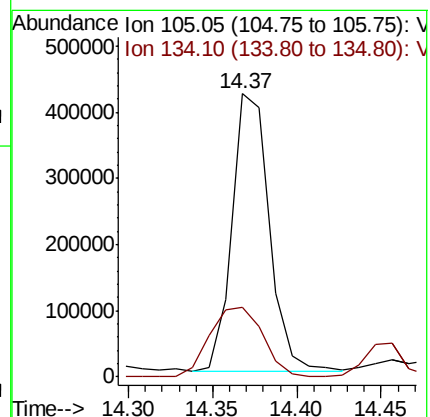
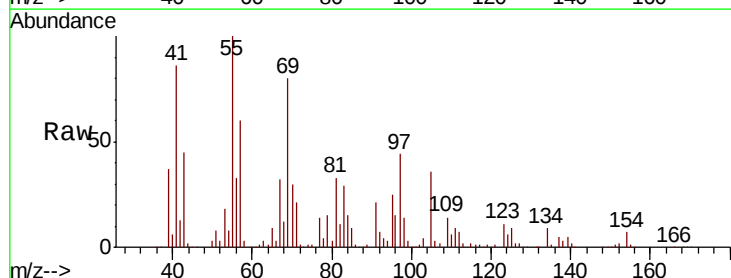
Acq: 22 May 2019 19:29

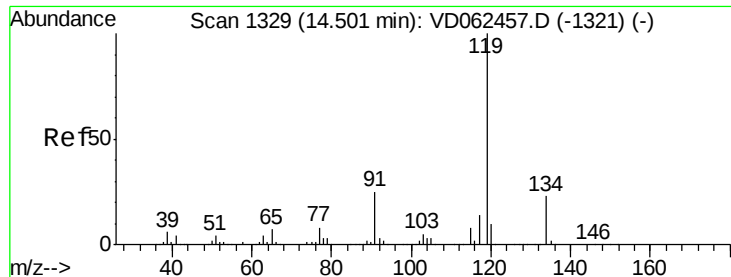
Tgt Ion:105 Resp: 643280

Ion Ratio Lower Upper

105 100

134 24.7 8.9 26.7

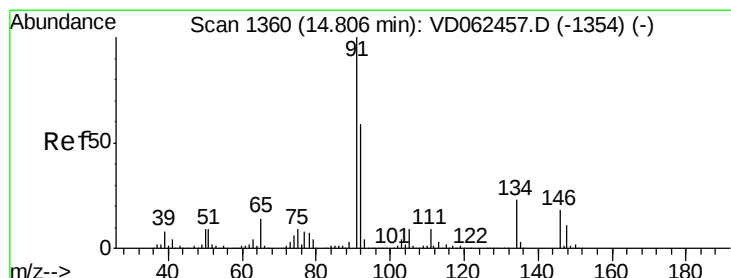
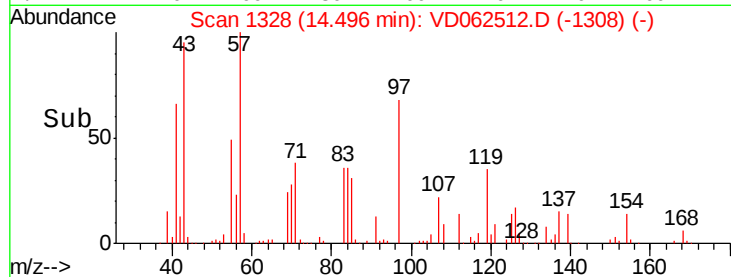
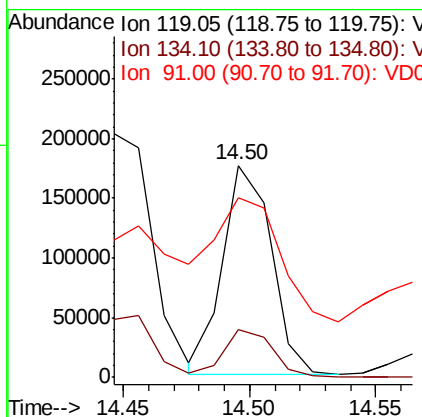
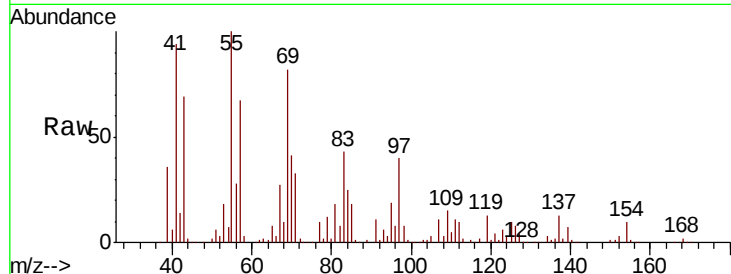




#86
p-Isopropyltoluene
Concen: 34.445 ug/l
RT: 14.50 min Scan# 1328
Delta R.T. -0.01 min
Lab File: VD062512.D
Acq: 22 May 2019 19:29

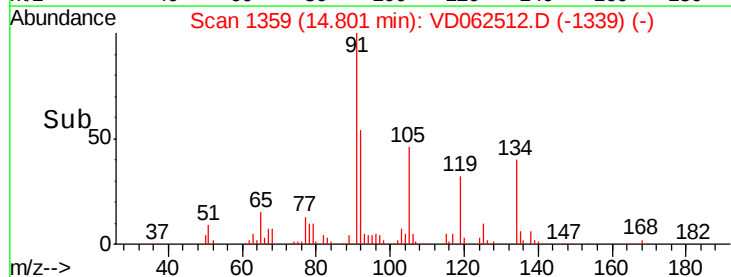
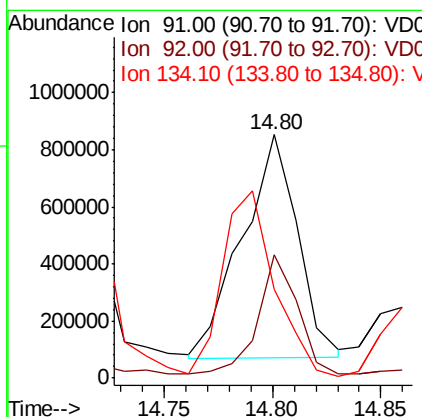
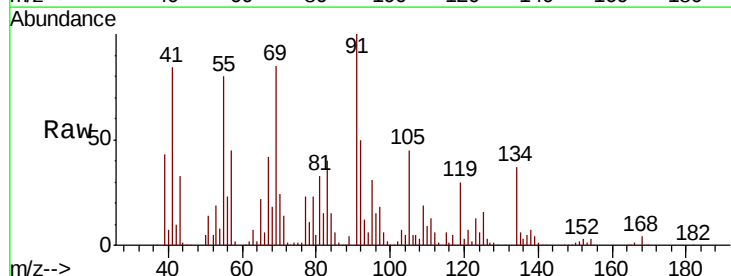
Instrument :
MSVOA_D
ClientSampleId :
P-10(0.5-1.0)

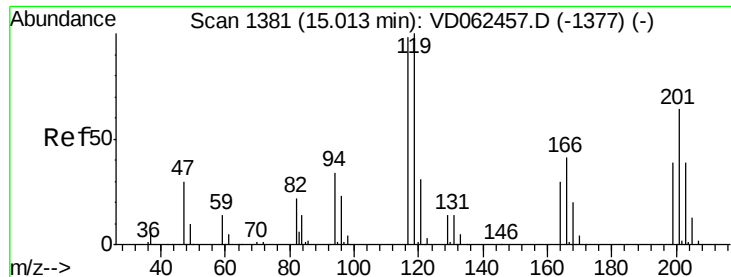
Tot Ion:119 Resp: 235517
Ion Ratio Lower Upper
119 100
134 22.6 12.8 38.3
91 84.8 10.7 32.1#



#89
n-Butylbenzene
Concen: 210.324 ug/l
RT: 14.80 min Scan# 1359
Delta R.T. -0.01 min
Lab File: VD062512.D
Acq: 22 May 2019 19:29

Tgt Ion: 91 Resp: 1387889
Ion Ratio Lower Upper
91 100
92 50.5 30.3 91.0
134 36.7 14.5 43.6





#90

Hexachloroethane

Concen: 52.015 ug/l

RT: 14.98 min Scan# 1377

Delta R.T. -0.03 min

Lab File: VD062512.D

Acq: 22 May 2019 19:29

Instrument :

MSVOA_D

ClientSampleId :

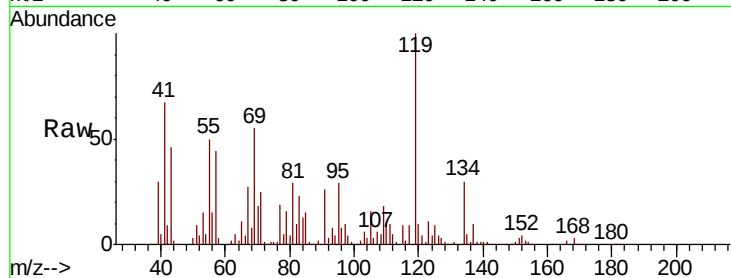
P-10(0.5-1.0)

Tot Ion:117 Resp: 98291

Ion Ratio Lower Upper

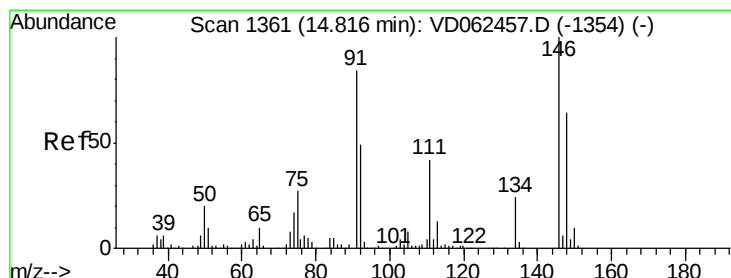
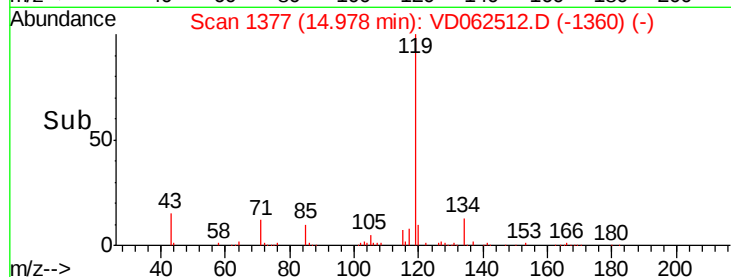
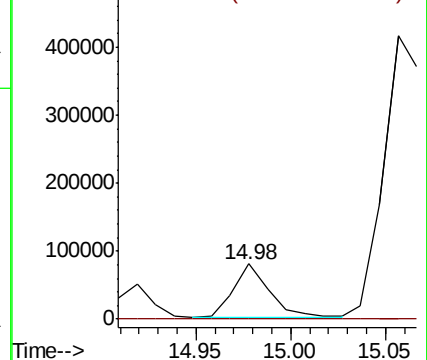
117 100

201 0.0 30.2 90.6#



Abundance Ion 116.85 (116.55 to 117.55): V

Ion 200.75 (200.45 to 201.45): V



#91

1,2-Dichlorobenzene

Concen: 1.701 ug/l

RT: 14.89 min Scan# 1368

Delta R.T. 0.07 min

Lab File: VD062512.D

Acq: 22 May 2019 19:29

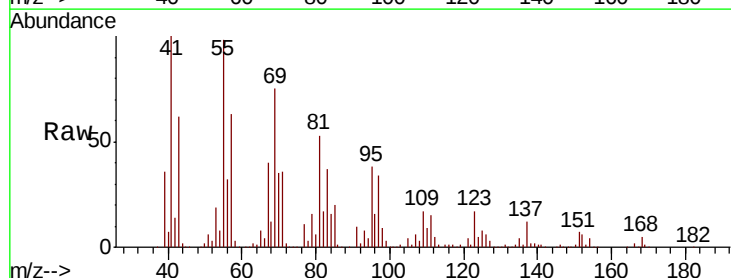
Tgt Ion:146 Resp: 5460

Ion Ratio Lower Upper

146 100

111 2759.8 20.0 59.9#

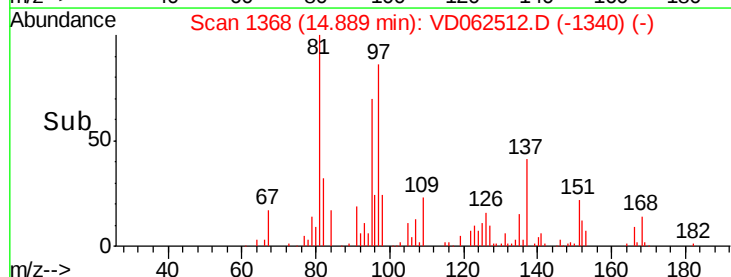
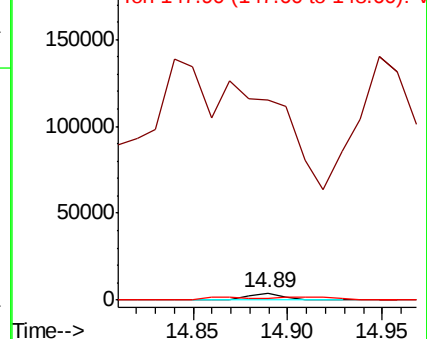
148 31.8 32.3 96.8#

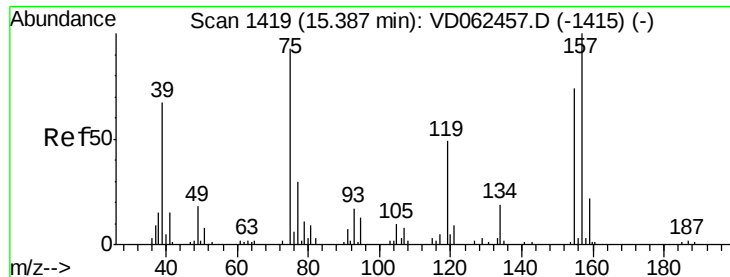


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

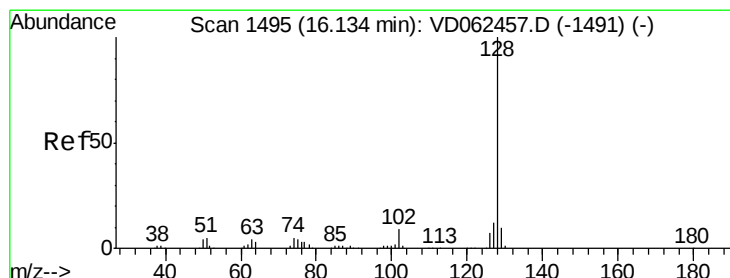
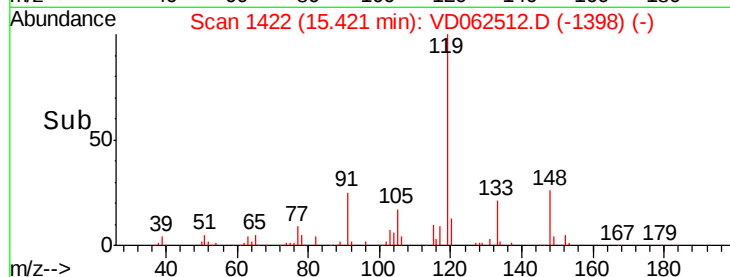
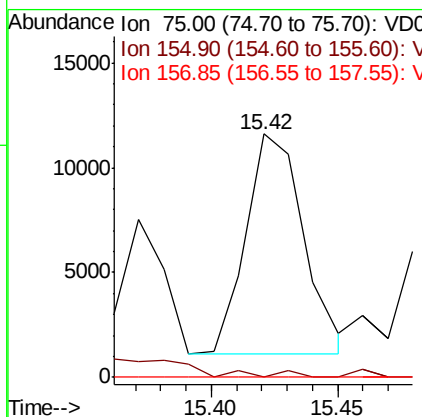
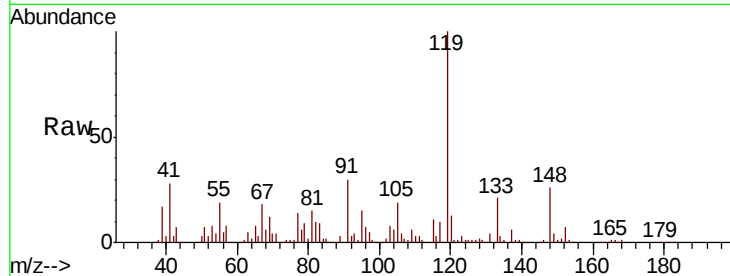




#92
 1,2-Dibromo-3-Chloropropane
 Concen: 64.350 ug/l
 RT: 15.42 min Scan# 1422
 Delta R.T. 0.03 min
 Lab File: VD062512.D
 Acq: 22 May 2019 19:29

Instrument :
 MSVOA_D
 ClientSampleId :
 P-10(0.5-1.0)

Tot Ion: 75 Resp: 16602
 Ion Ratio Lower Upper
 75 100
 155 0.0 55.3 165.8#
 157 0.0 67.8 203.2#



#95
 Naphthalene
 Concen: 39.900 ug/l
 RT: 16.12 min Scan# 1493
 Delta R.T. -0.02 min
 Lab File: VD062512.D
 Acq: 22 May 2019 19:29

Tgt Ion: 128 Resp: 137771
 Ion Ratio Lower Upper
 128 100
 127 12.4 9.8 14.8
 129 10.8 8.8 13.2

