

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD052219\
 Data File : VD062499.D
 Acq On : 22 May 2019 13:13
 Operator : VA/AP
 Sample : VD0522SBS01
 Misc : 5.00g/5ml/MSVOA D/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0522SBS01

Quant Time: May 23 03:11:46 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	7.02	168	686102	50.00	ug/l	-0.04
34) 1,4-Difluorobenzene	8.19	114	906027	50.00	ug/l	-0.04
63) Chlorobenzene-d5	12.36	117	753796	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	14.51	152	448454	50.00	ug/l	-0.02

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.43	65	422493	57.53	ug/l	-0.04
Spiked Amount	50.000		Recovery	=	115.06%	
35) Dibromofluoromethane	6.90	113	470330	57.54	ug/l	-0.04
Spiked Amount	50.000		Recovery	=	115.08%	
50) Toluene-d8	10.39	98	1035867	57.91	ug/l	-0.04
Spiked Amount	50.000		Recovery	=	115.82%	
62) 4-Bromofluorobenzene	13.55	95	444330	56.79	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	113.58%	

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.57	85	173410	24.387	ug/l	99
3) Chloromethane	1.74	50	98636	20.752	ug/l	93
4) Vinyl Chloride	1.84	62	82524	16.500	ug/l	100
5) Bromomethane	2.13	94	39514	18.309	ug/l	100
6) Chloroethane	2.24	64	40393	16.695	ug/l	89
7) Trichlorofluoromethane	2.52	101	164076	14.198	ug/l	96
8) Diethyl Ether	2.86	74	21613	13.864	ug/l	79
9) 1,1,2-Trichlorotrifluoroet	3.13	101	104983	15.270	ug/l	96
10) Methyl Iodide	3.28	142	170787	17.816	ug/l #	84
11) Tert butyl alcohol	4.07	59	34146	100.726	ug/l	96
12) 1,1-Dichloroethene	3.12	96	71207	14.014	ug/l	98
13) Acrolein	3.02	56	20892	74.211	ug/l	91
14) Allyl chloride	3.60	41	157787	21.061	ug/l #	78
15) Acrylonitrile	4.18	53	84685	109.018	ug/l	91
16) Acetone	3.21	43	107965	82.035	ug/l #	87
17) Carbon Disulfide	3.35	76	332820	21.628	ug/l	99
18) Methyl Acetate	3.63	43	50382	22.185	ug/l	96
19) Methyl tert-butyl Ether	4.22	73	253346	21.587	ug/l #	86
20) Methylene Chloride	3.80	84	134217	20.171	ug/l	96
21) trans-1,2-Dichloroethene	4.19	96	135097	22.712	ug/l	92
22) Diisopropyl ether	5.09	45	338333	21.216	ug/l	93
23) Vinyl Acetate	5.04	43	1004454	104.241	ug/l	97
24) 1,1-Dichloroethane	4.96	63	213127	20.752	ug/l	97
25) 2-Butanone	6.05	43	150515	109.347	ug/l	97
26) 2,2-Dichloropropane	6.00	77	241669	21.829	ug/l	94
27) cis-1,2-Dichloroethene	6.01	96	140923	21.971	ug/l	93
28) Bromochloromethane	6.41	49	77849	21.120	ug/l	87
29) Tetrahydrofuran	6.43	42	67168	102.173	ug/l	93
30) Chloroform	6.64	83	267578	20.436	ug/l	96
31) Cyclohexane	6.92	56	140592	20.274	ug/l	99
32) 1,1,1-Trichloroethane	6.86	97	274226	20.745	ug/l	96
36) 1,1-Dichloropropene	7.12	75	196152	22.645	ug/l	92
37) Ethyl Acetate	6.17	43	66534	19.772	ug/l #	90
38) Carbon Tetrachloride	7.09	117	286494	22.254	ug/l	96

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	8.84	83	153007	21.416	ug/l	95
40) Benzene	7.44	78	377991	22.246	ug/l	96
41) Methacrylonitrile	6.43	41	85940	20.334	ug/l #	81
42) 1,2-Dichloroethane	7.55	62	194158	21.579	ug/l	91
43) Isopropyl Acetate	9.23	43	98491	22.062	ug/l	92
44) Trichloroethene	8.52	130	144703	21.270	ug/l	89
45) 1,2-Dichloropropane	8.92	63	89746	21.674	ug/l	99
46) Dibromomethane	9.04	93	82876	22.080	ug/l	89
47) Bromodichloromethane	9.36	83	204245	21.391	ug/l	93
48) Methyl methacrylate	9.10	41	66208	22.039	ug/l #	82
49) 1,4-Dioxane	9.07	88	12085	448.480	ug/l #	86
51) 4-Methyl-2-Pentanone	10.28	43	337392	114.403	ug/l	94
52) Toluene	10.49	92	253600	21.802	ug/l	100
53) t-1,3-Dichloropropene	10.90	75	186188	23.422	ug/l	99
54) cis-1,3-Dichloropropene	10.02	75	190769	22.999	ug/l #	87
55) 1,1,2-Trichloroethane	11.18	97	88783	22.521	ug/l	94
56) Ethyl methacrylate	11.03	69	84171	19.972	ug/l #	78
57) 1,3-Dichloropropane	11.39	76	138527	22.913	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.84	63	220665	101.969	ug/l	100
59) 2-Hexanone	11.52	43	252041	117.590	ug/l	95
60) Dibromochloromethane	11.67	129	162069	21.404	ug/l	99
61) 1,2-Dibromoethane	11.79	107	105992	21.817	ug/l	96
64) Tetrachloroethene	11.24	164	139043	22.030	ug/l	95
65) Chlorobenzene	12.39	112	295190	20.364	ug/l	100
66) 1,1,1,2-Tetrachloroethane	12.50	131	146153	21.842	ug/l	95
67) Ethyl Benzene	12.51	91	574362	23.004	ug/l	97
68) m/p-Xylenes	12.65	106	396027	44.187	ug/l	83
69) o-Xylene	13.04	106	172630	20.414	ug/l	81
70) Styrene	13.07	104	316406	21.994	ug/l	94
71) Bromoform	13.22	173	95068	21.393	ug/l #	96
73) Isopropylbenzene	13.39	105	555198	19.641	ug/l	96
74) N-amyl acetate	13.25	43	134940	19.328	ug/l	94
75) 1,1,2,2-Tetrachloroethane	13.69	83	99162	19.445	ug/l	98
76) 1,2,3-Trichloropropane	13.72	75	105124	19.901	ug/l	96
77) Bromobenzene	13.66	156	163980	20.449	ug/l	87
78) n-propylbenzene	13.76	91	677255	20.684	ug/l	97
79) 2-Chlorotoluene	13.83	91	419602	21.117	ug/l	95
80) 1,3,5-Trimethylbenzene	13.92	105	507897	20.751	ug/l	90
81) trans-1,4-Dichloro-2-buten	13.46	75	29191	19.595	ug/l #	68
82) 4-Chlorotoluene	13.94	91	478091	20.892	ug/l	92
83) tert-Butylbenzene	14.18	119	554558	20.426	ug/l	94
84) 1,2,4-Trimethylbenzene	14.23	105	507230	20.225	ug/l	90
85) sec-Butylbenzene	14.35	105	580890	20.520	ug/l	95
86) p-Isopropyltoluene	14.48	119	522595	20.371	ug/l	93
87) 1,3-Dichlorobenzene	14.44	146	287157	20.278	ug/l	98
88) 1,4-Dichlorobenzene	14.53	146	288832	21.137	ug/l	96
89) n-Butylbenzene	14.79	91	515538	20.823	ug/l	94
90) Hexachloroethane	14.99	117	137388	19.378	ug/l	93
91) 1,2-Dichlorobenzene	14.80	146	252946	21.006	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	15.37	75	18582	19.196	ug/l	62

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Quant Title : SW846 8260
QLast Update : Tue May 21 03:32:39 2019
Response via : Initial Calibration

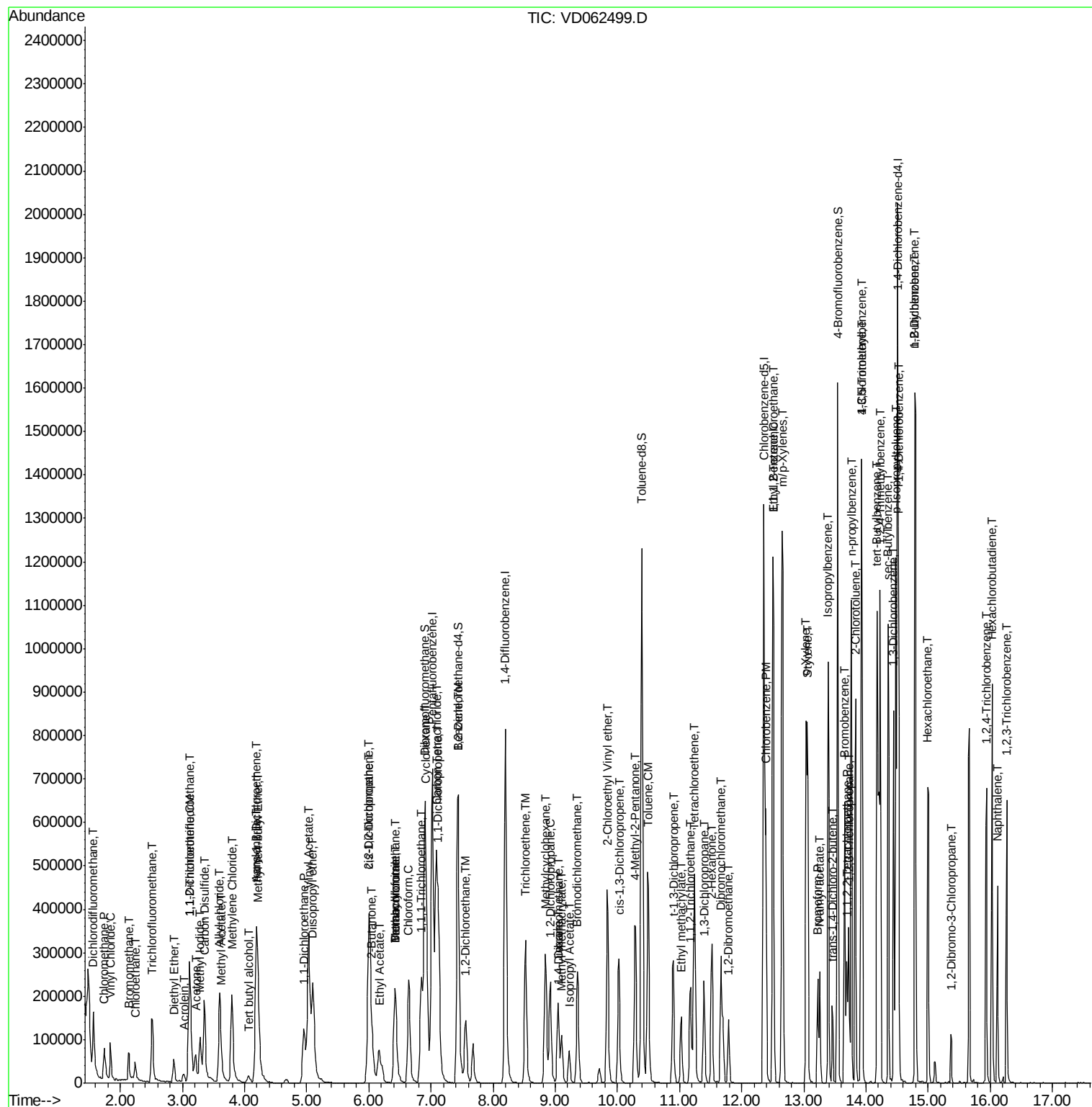
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.94	180	186285	19.647	ug/l	94
94) Hexachlorobutadiene	16.03	225	139082	19.867	ug/l	97
95) Naphthalene	16.12	128	253504	19.568	ug/l	99
96) 1,2,3-Trichlorobenzene	16.26	180	153235	19.715	ug/l	95

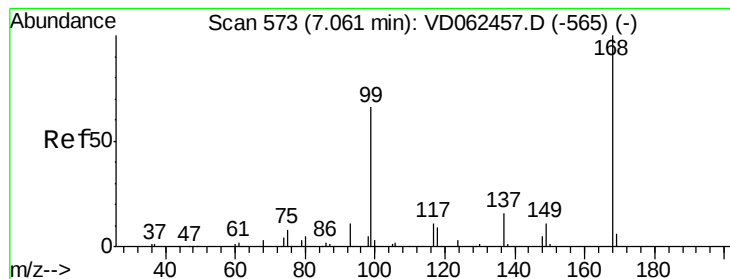
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Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD052219\
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 Acq On : 22 May 2019 13:13
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 Quant Title : SW846 8260
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.02 min Scan# 569

Delta R.T. -0.04 min

Lab File: VD062499.D

Acq: 22 May 2019 13:13

Instrument :

MSVOA_D

ClientSampleId :

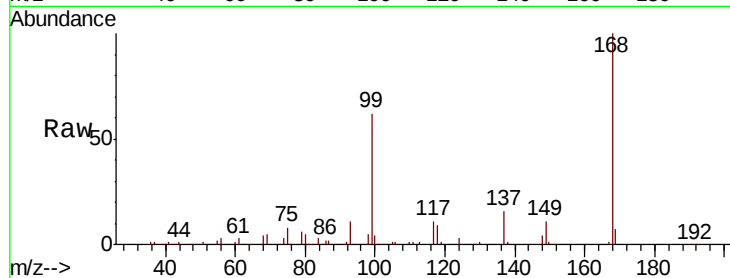
VD0522SBS01

Tot Ion:168 Resp: 686102

Ion Ratio Lower Upper

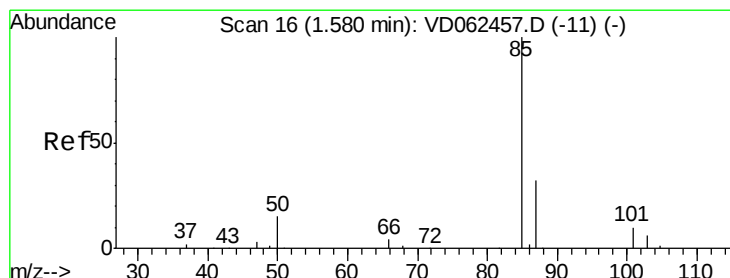
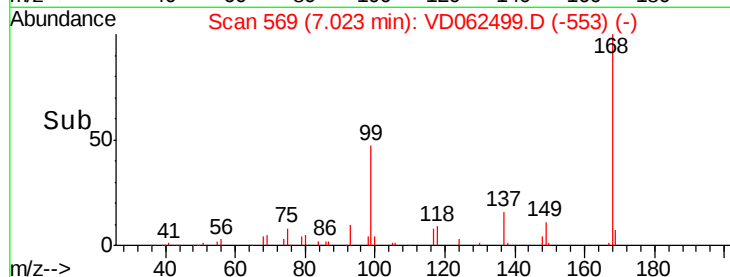
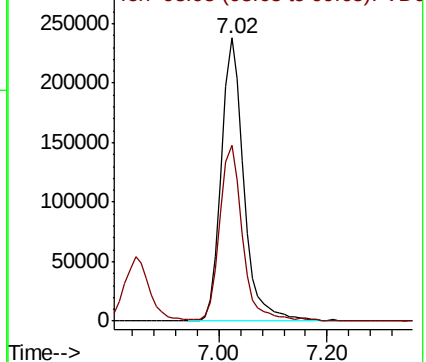
168 100

99 62.3 46.5 69.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): V



#2

Dichlorodifluoromethane

Concen: 24.387 ug/l

RT: 1.57 min Scan# 15

Delta R.T. -0.01 min

Lab File: VD062499.D

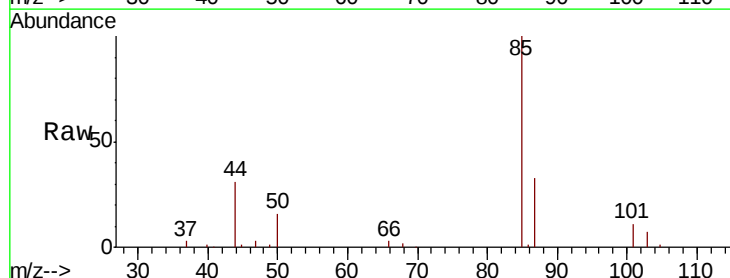
Acq: 22 May 2019 13:13

Tgt Ion: 85 Resp: 173410

Ion Ratio Lower Upper

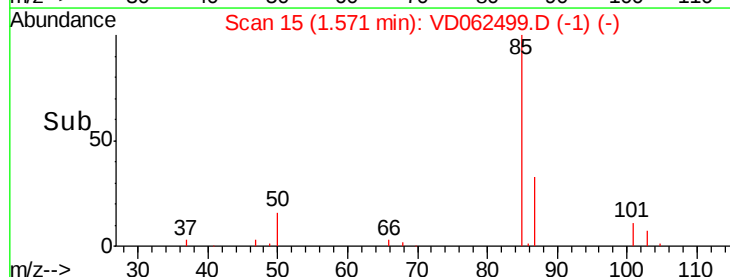
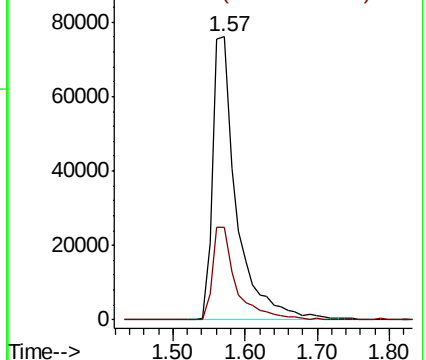
85 100

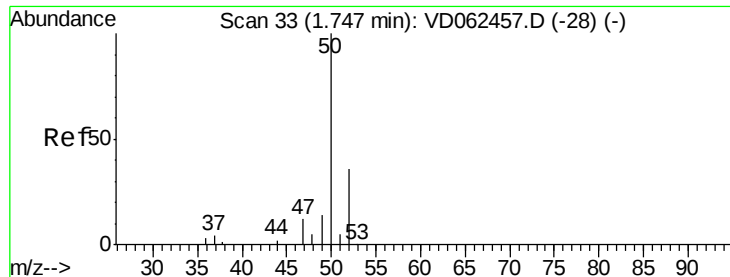
87 32.9 16.2 48.6



Abundance Ion 84.95 (84.65 to 85.65): V

Ion 86.90 (86.60 to 87.60): V





#3

Chloromethane

Concen: 20.752 ug/l

RT: 1.74 min Scan# 32

Delta R.T. -0.01 min

Lab File: VD062499.D

Acq: 22 May 2019 13:13

Instrument :

MSVOA_D

ClientSampleId :

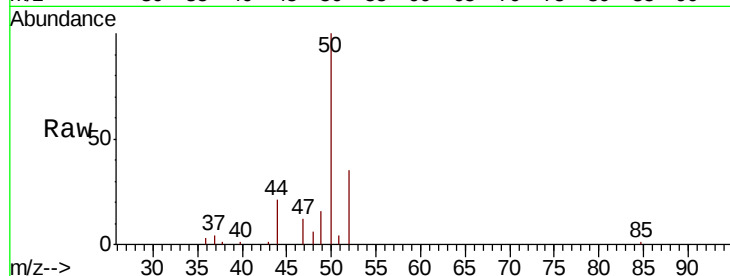
VD0522SBS01

Tot Ion: 50 Resp: 98636

Ion Ratio Lower Upper

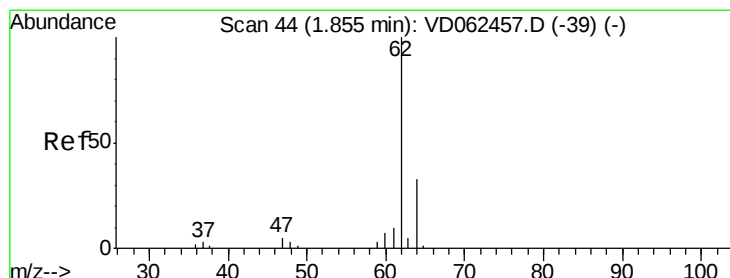
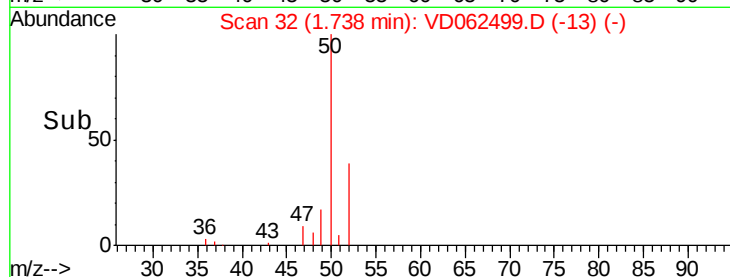
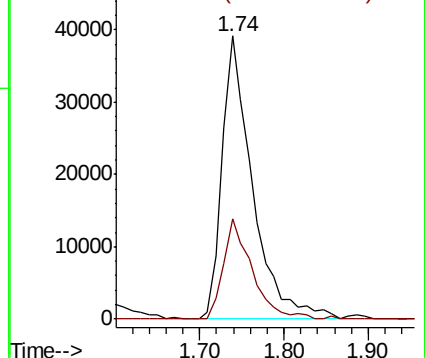
50 100

52 35.4 25.2 37.8



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 16.500 ug/l

RT: 1.84 min Scan# 42

Delta R.T. -0.02 min

Lab File: VD062499.D

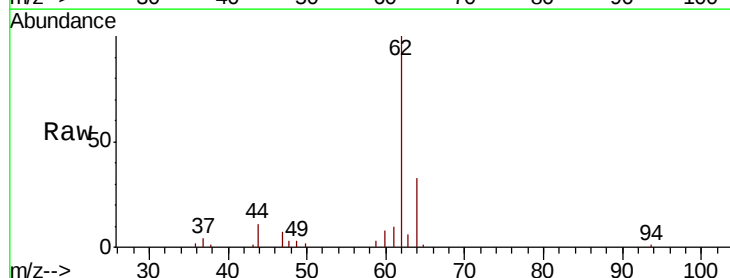
Acq: 22 May 2019 13:13

Tgt Ion: 62 Resp: 82524

Ion Ratio Lower Upper

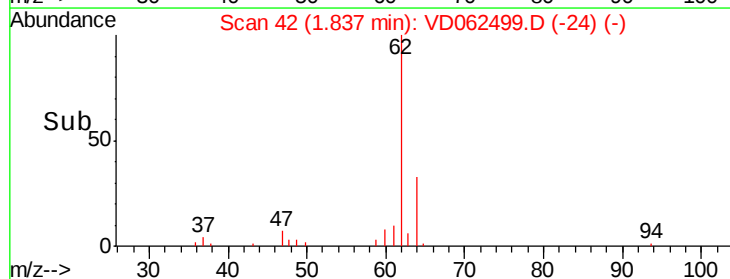
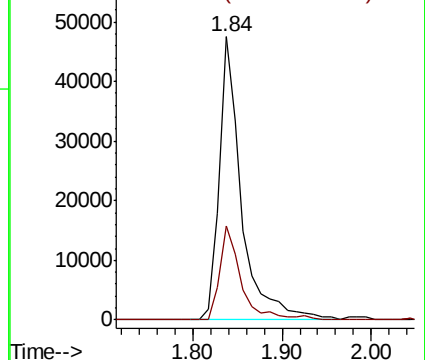
62 100

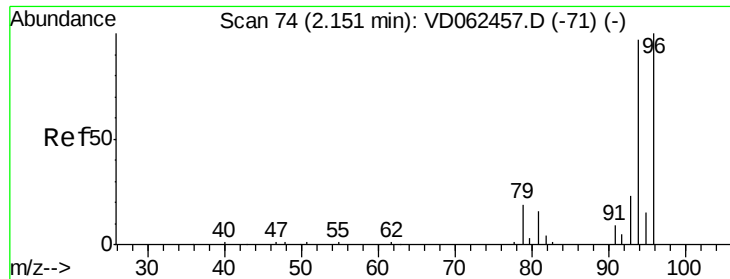
64 33.1 26.5 39.7



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC





#5

Bromomethane

Concen: 18.309 ug/l

RT: 2.13 min Scan# 72

Delta R.T. -0.02 min

Lab File: VD062499.D

Acq: 22 May 2019 13:13

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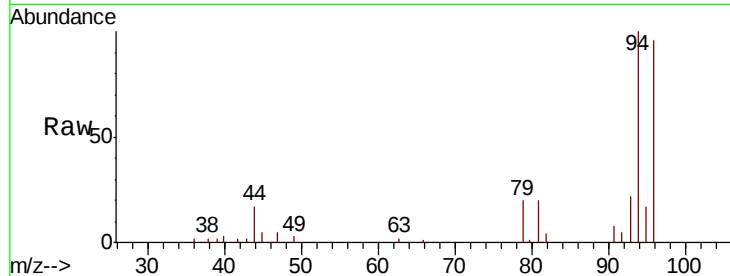
Tot Ion: 94 Resp: 39514

Ion Ratio Lower Upper

94 100

96 95.6 76.6 115.0

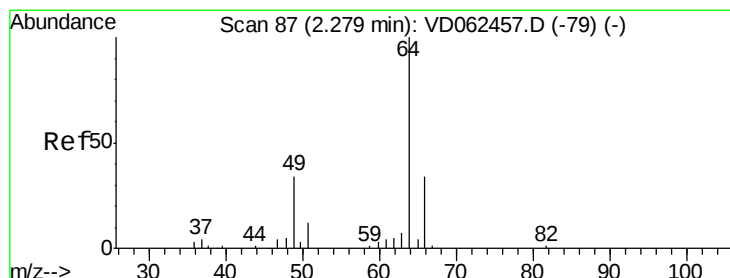
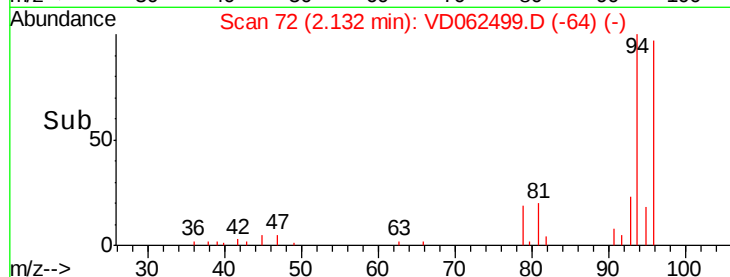
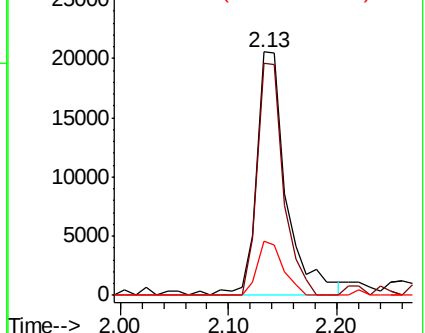
93 22.5 18.5 27.7



Abundance Ion 94.00 (93.70 to 94.70): VDC

Ion 96.00 (95.70 to 96.70): VDC

Ion 93.00 (92.70 to 93.70): VDC



#6

Chloroethane

Concen: 16.695 ug/l

RT: 2.24 min Scan# 83

Delta R.T. -0.04 min

Lab File: VD062499.D

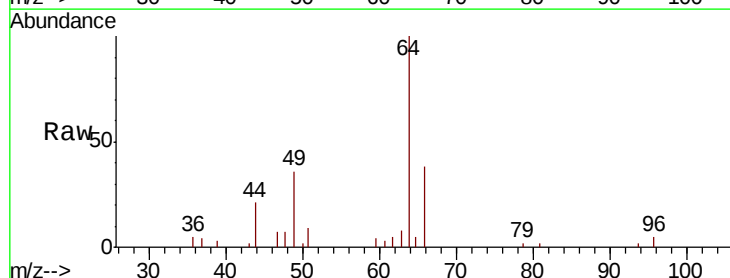
Acq: 22 May 2019 13:13

Tgt Ion: 64 Resp: 40393

Ion Ratio Lower Upper

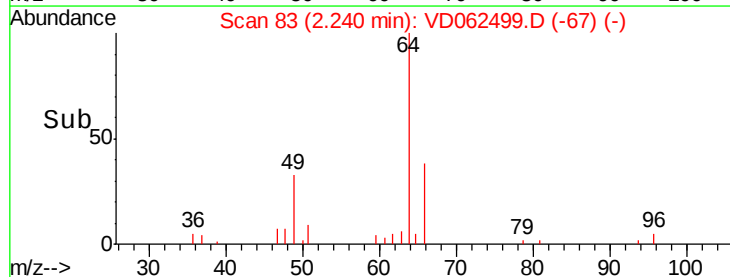
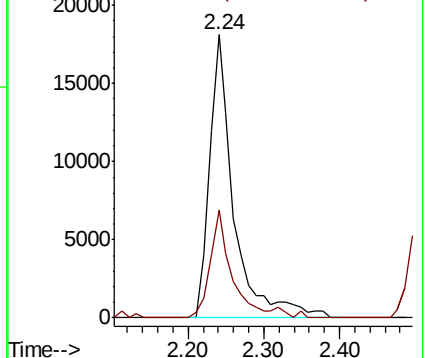
64 100

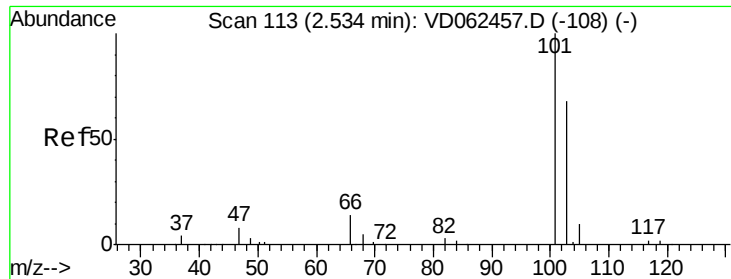
66 38.1 25.6 38.4



Abundance Ion 63.95 (63.65 to 64.65): VDC

Ion 65.90 (65.60 to 66.60): VDC



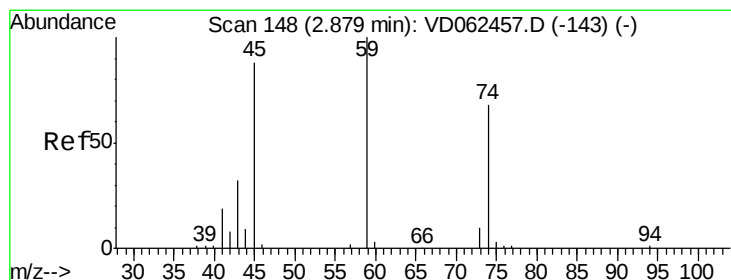
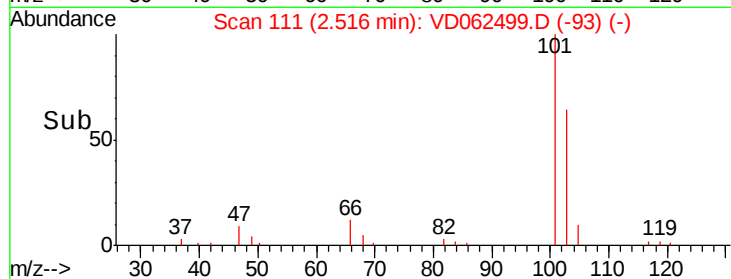
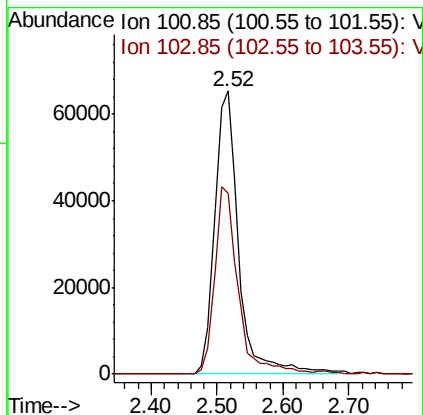
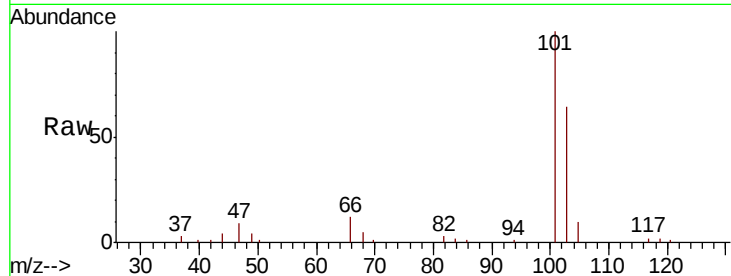


#7

Trichlorofluoromethane
 Concen: 14.198 ug/l
 RT: 2.52 min Scan# 111
 Delta R.T. -0.02 min
 Lab File: VD062499.D
 Acq: 22 May 2019 13:13

Instrument :
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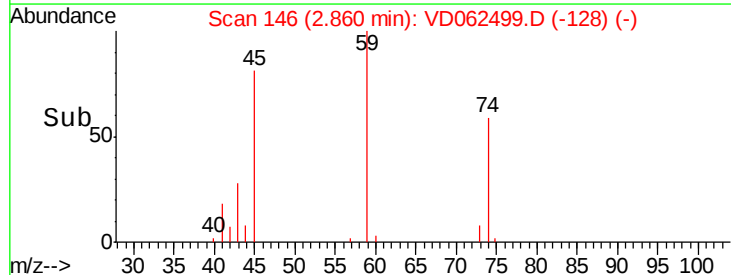
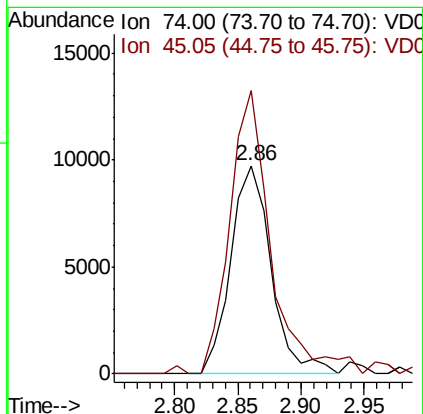
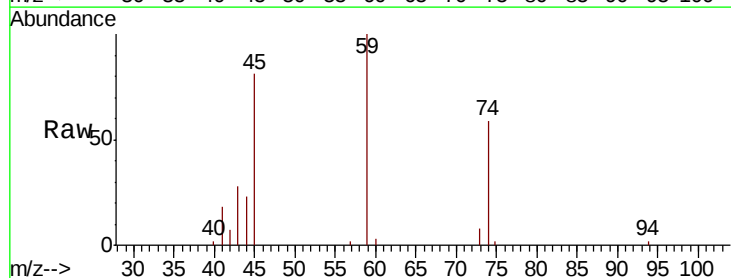
Tot Ion:101 Resp: 164076
 Ion Ratio Lower Upper
 101 100
 103 64.0 53.6 80.4

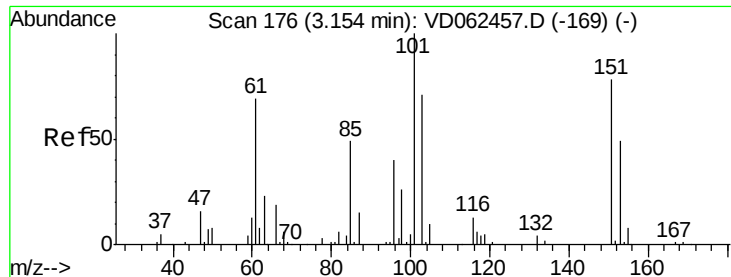


#8

Diethyl Ether
 Concen: 13.864 ug/l
 RT: 2.86 min Scan# 146
 Delta R.T. -0.02 min
 Lab File: VD062499.D
 Acq: 22 May 2019 13:13

Tgt Ion: 74 Resp: 21613
 Ion Ratio Lower Upper
 74 100
 45 136.2 56.9 170.7





#9

1,1,2-Trichlorotrifluoroethane

Concen: 15.270 ug/l

RT: 3.13 min Scan# 173

Delta R.T. -0.03 min

Lab File: VD062499.D

Acq: 22 May 2019 13:13

Instrument :

MSVOA_D

ClientSampleId :

VD0522SBS01

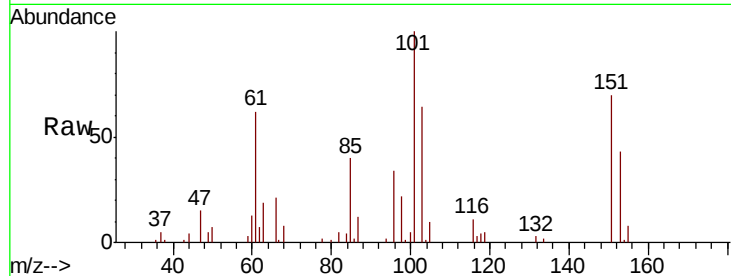
Tot Ion:101 Resp: 104983

Ion Ratio Lower Upper

101 100

85 39.7 32.4 48.6

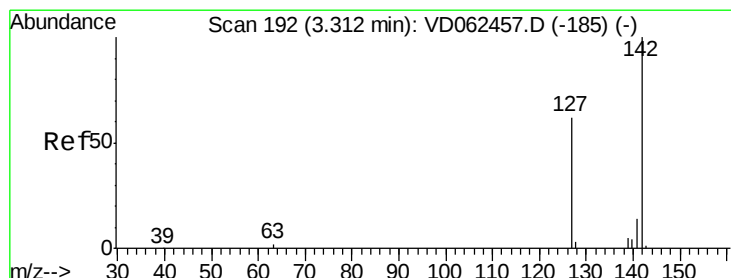
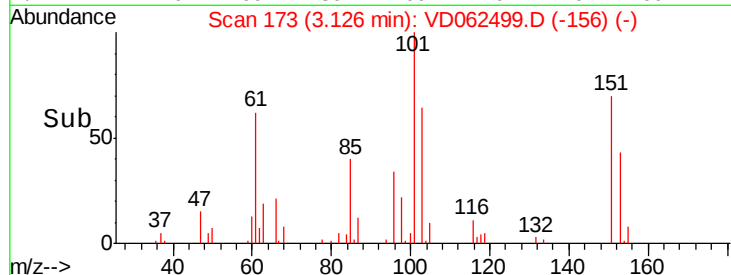
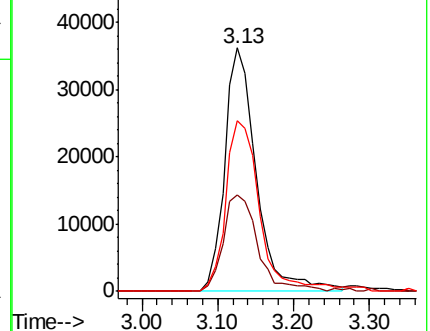
151 70.0 59.4 89.0



Abundance Ion 100.85 (100.55 to 101.55): V

Ion 84.95 (84.65 to 85.65): V

Ion 150.90 (150.60 to 151.60): V



#10

Methyl Iodide

Concen: 17.816 ug/l

RT: 3.28 min Scan# 189

Delta R.T. -0.03 min

Lab File: VD062499.D

Acq: 22 May 2019 13:13

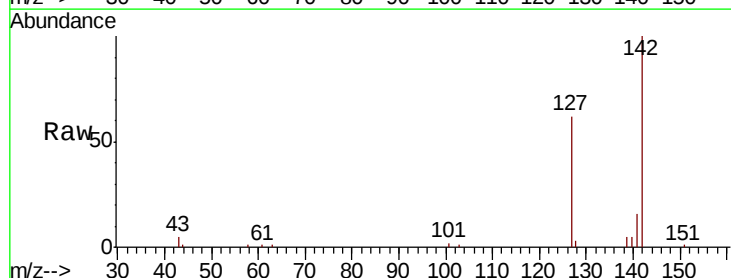
Tgt Ion:142 Resp: 170787

Ion Ratio Lower Upper

142 100

127 61.5 38.8 58.2#

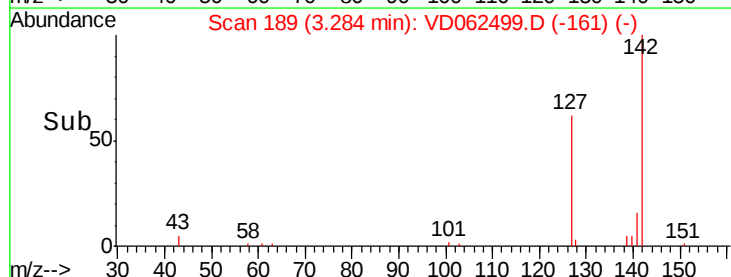
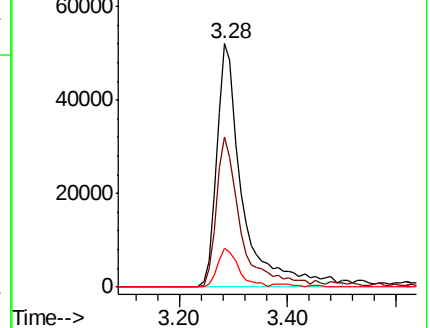
141 15.8 11.4 17.0

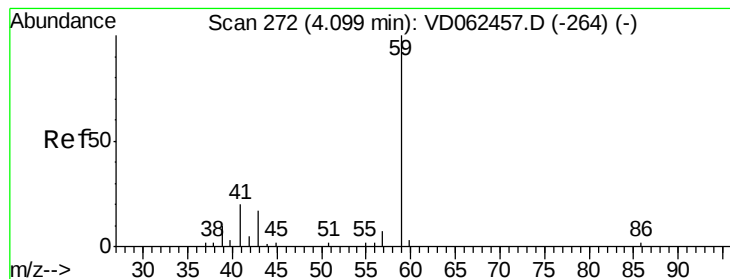


Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V





#11

Tert butyl alcohol

Concen: 100.726 ug/l

RT: 4.07 min Scan# 269

Delta R.T. -0.03 min

Lab File: VD062499.D

Acq: 22 May 2019 13:13

Instrument :

MSVOA_D

ClientSampleId :

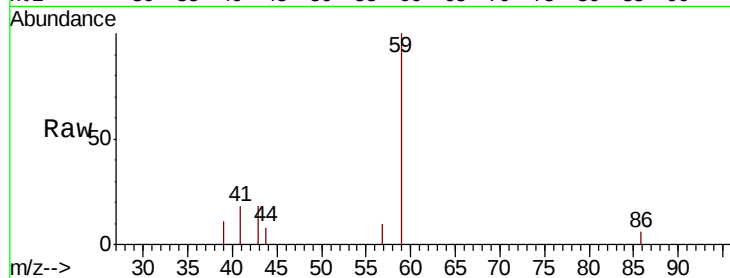
VD0522SBS01

Tot Ion: 59 Resp: 34146

Ion Ratio Lower Upper

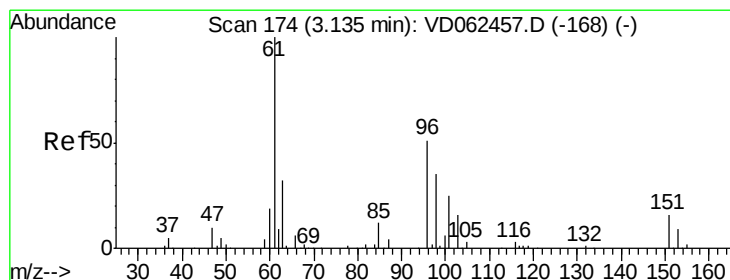
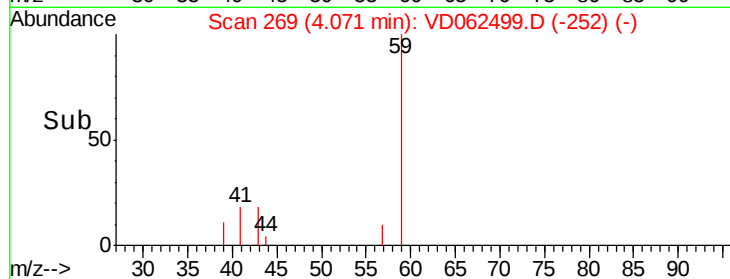
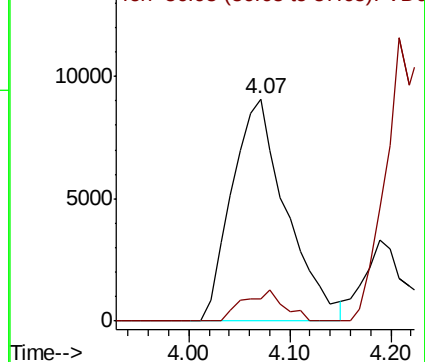
59 100

57 9.9 6.9 10.3



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC



#12

1,1-Dichloroethene

Concen: 14.014 ug/l

RT: 3.12 min Scan# 172

Delta R.T. -0.02 min

Lab File: VD062499.D

Acq: 22 May 2019 13:13

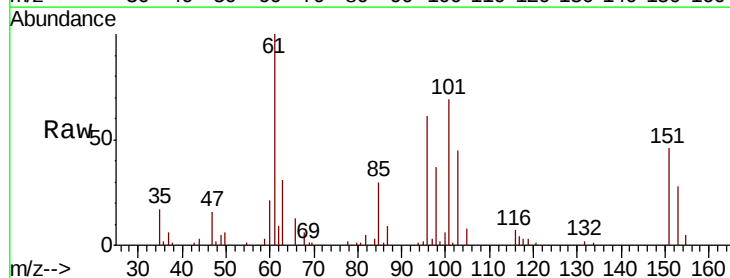
Tgt Ion: 96 Resp: 71207

Ion Ratio Lower Upper

96 100

61 162.7 129.8 194.8

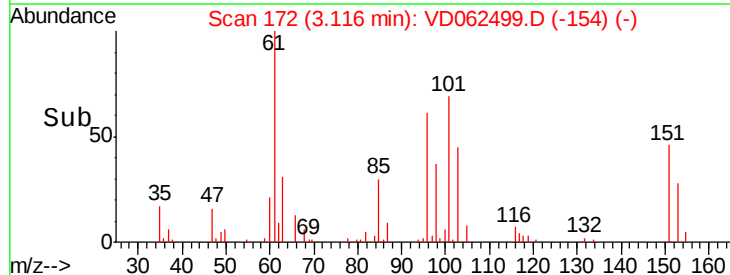
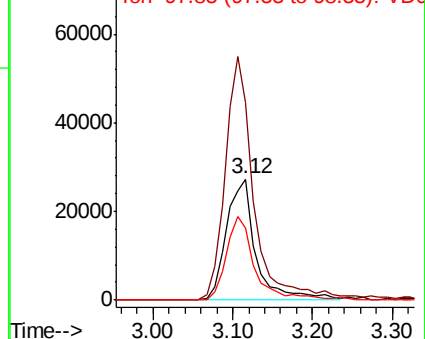
98 59.9 51.2 76.8

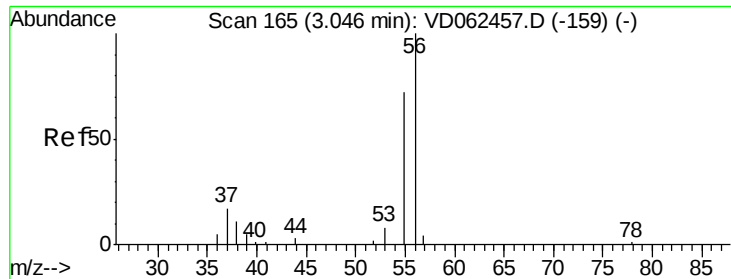


Abundance Ion 95.90 (95.60 to 96.60): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 97.85 (97.55 to 98.55): VDC





#13

Acrolein

Concen: 74.211 ug/l

RT: 3.02 min Scan# 162

Delta R.T. -0.03 min

Lab File: VD062499.D

Acq: 22 May 2019 13:13

Instrument :

MSVOA_D

ClientSampleId :

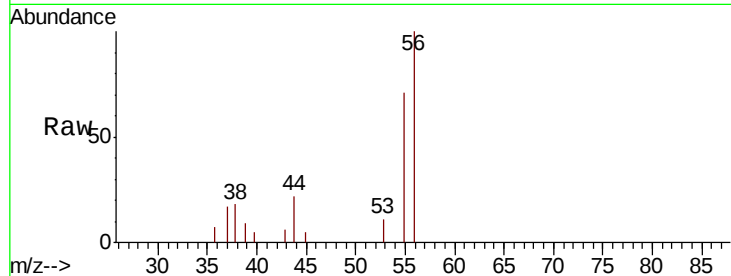
VD0522SBS01

Tot Ion: 56 Resp: 20892

Ion Ratio Lower Upper

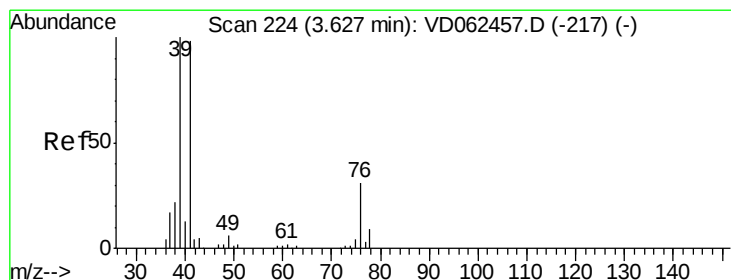
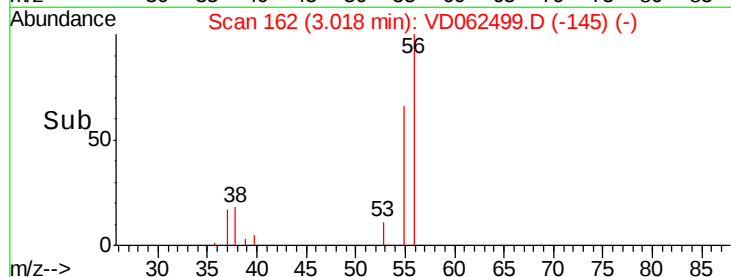
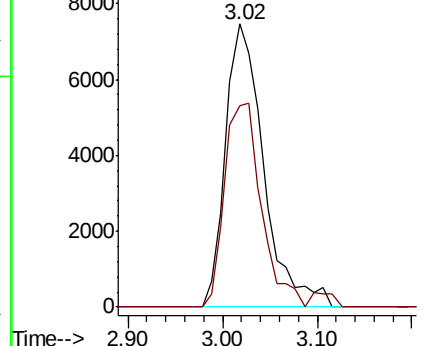
56 100

55 71.0 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: 21.061 ug/l

RT: 3.60 min Scan# 221

Delta R.T. -0.03 min

Lab File: VD062499.D

Acq: 22 May 2019 13:13

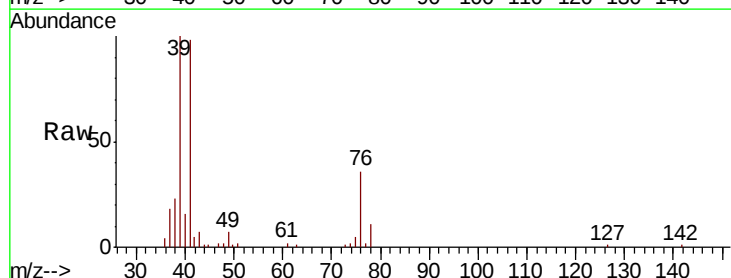
Tgt Ion: 41 Resp: 157787

Ion Ratio Lower Upper

41 100

39 101.8 60.5 90.7#

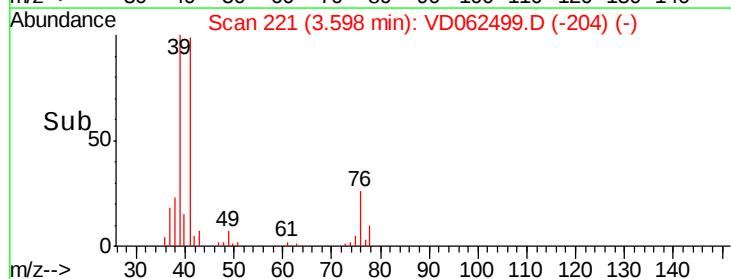
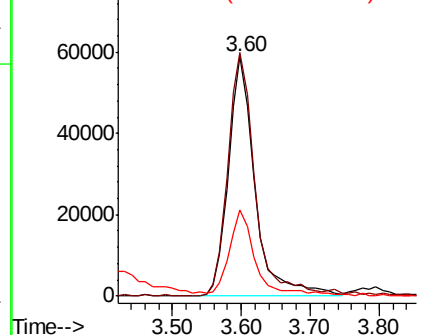
76 36.2 31.8 47.8

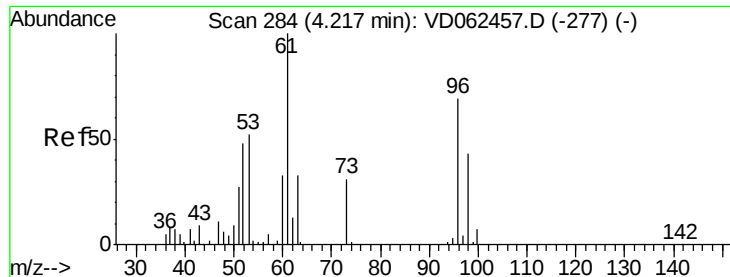


Abundance Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 75.95 (75.65 to 76.65): VDC

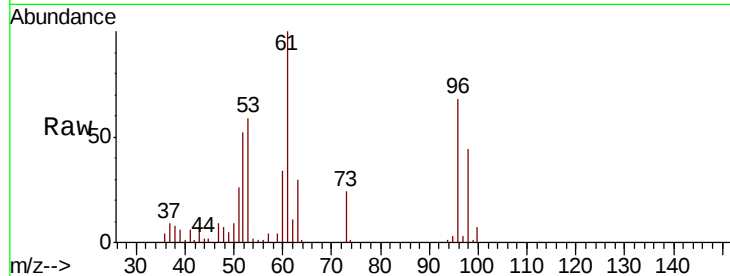




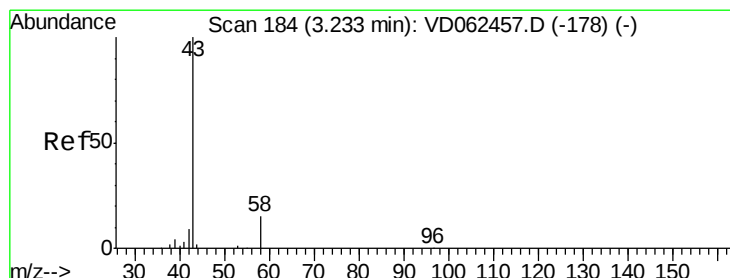
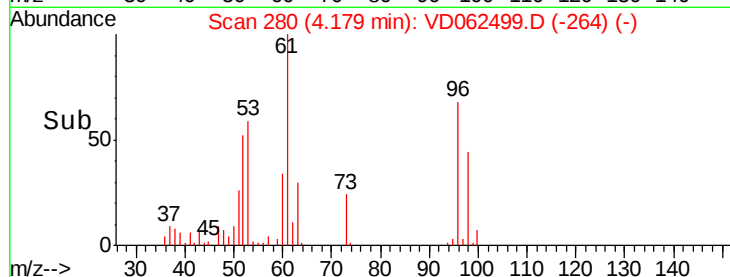
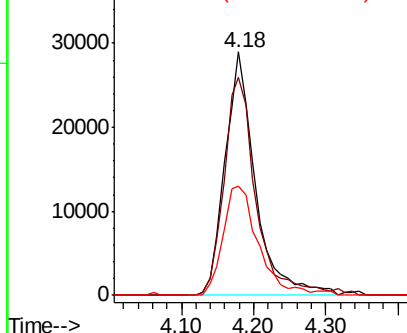
#15
 Acrylonitrile
 Concen: 109.018 ug/l
 RT: 4.18 min Scan# 280
 Delta R.T. -0.04 min
 Lab File: VD062499.D
 Acq: 22 May 2019 13:13

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0522SBS01

Tot Ion: 53 Resp: 84685
 Ion Ratio Lower Upper
 53 100
 52 89.5 65.0 97.4
 51 45.1 32.6 48.8

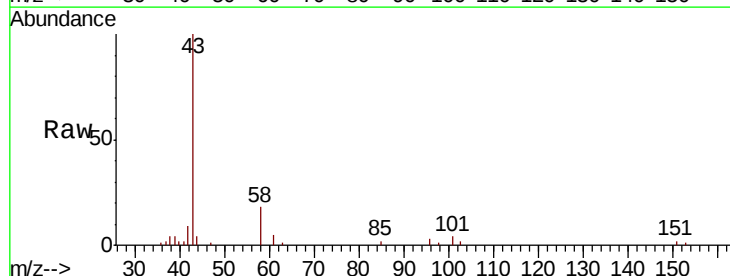


Abundance Ion 53.00 (52.70 to 53.70): VDC
 Ion 52.00 (51.70 to 52.70): VDC
 Ion 51.00 (50.70 to 51.70): VDC

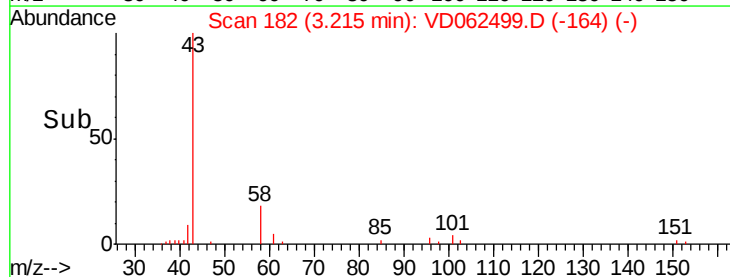
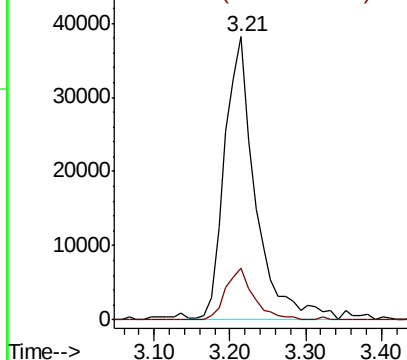


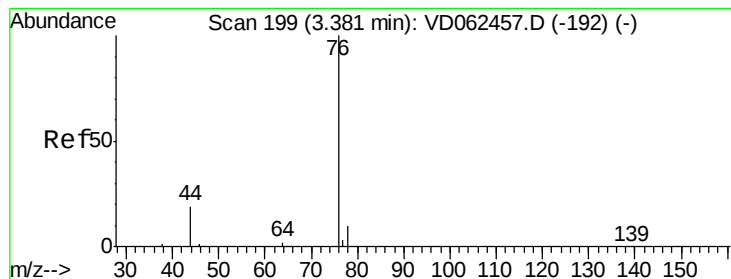
#16
 Acetone
 Concen: 82.035 ug/l
 RT: 3.21 min Scan# 182
 Delta R.T. -0.02 min
 Lab File: VD062499.D
 Acq: 22 May 2019 13:13

Tgt Ion: 43 Resp: 107965
 Ion Ratio Lower Upper
 43 100
 58 18.2 19.9 29.9#



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





#17

Carbon Disulfide

Concen: 21.628 ug/l

RT: 3.35 min Scan# 196

Delta R.T. -0.03 min

Lab File: VD062499.D

Acq: 22 May 2019 13:13

Instrument :

MSVOA_D

ClientSampleId :

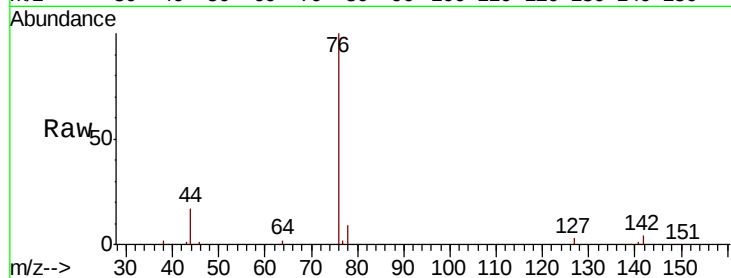
VD0522SBS01

Tot Ion: 76 Resp: 332820

Ion Ratio Lower Upper

76 100

78 8.8 7.2 10.8



Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC

3.35

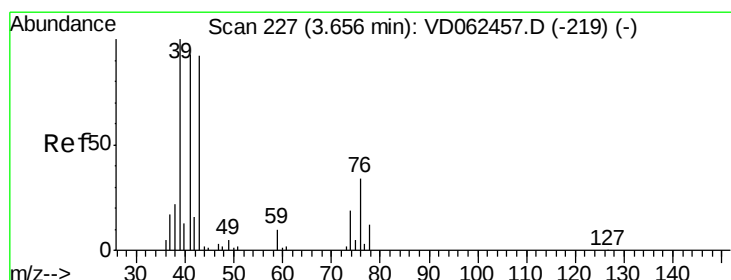
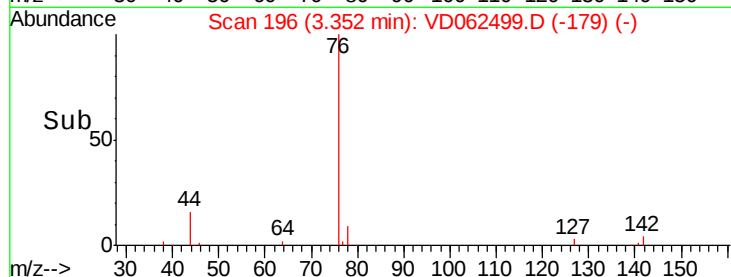
150000

100000

50000

0

Time-->



#18

Methyl Acetate

Concen: 22.185 ug/l

RT: 3.63 min Scan# 224

Delta R.T. -0.03 min

Lab File: VD062499.D

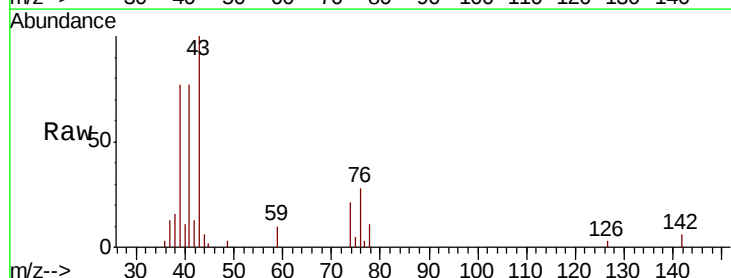
Acq: 22 May 2019 13:13

Tgt Ion: 43 Resp: 50382

Ion Ratio Lower Upper

43 100

74 20.5 18.0 27.0



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC

3.63

20000

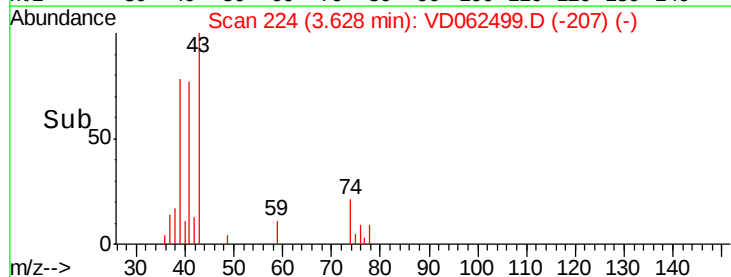
15000

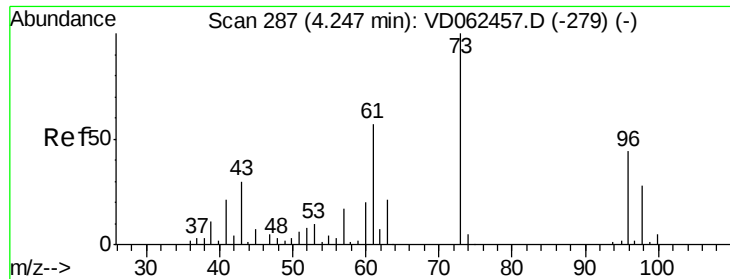
10000

5000

0

Time-->



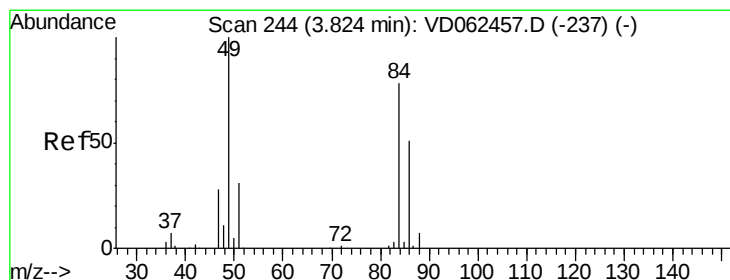
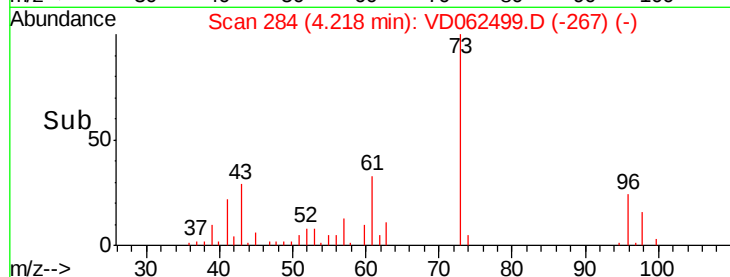
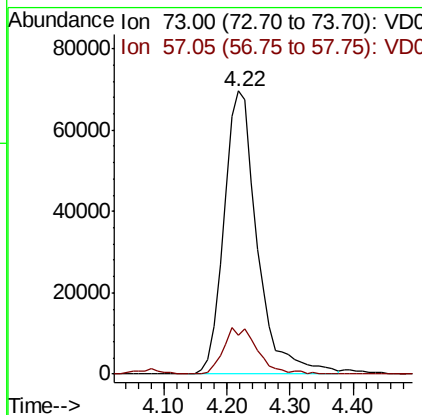
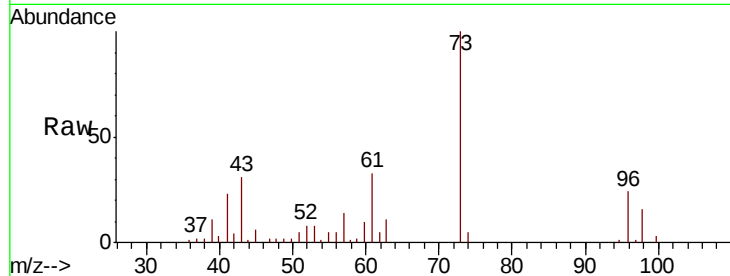


#19

Methyl tert-butyl Ether
 Concen: 21.587 ug/l
 RT: 4.22 min Scan# 284
 Delta R.T. -0.03 min
 Lab File: VD062499.D
 Acq: 22 May 2019 13:13

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0522SBS01

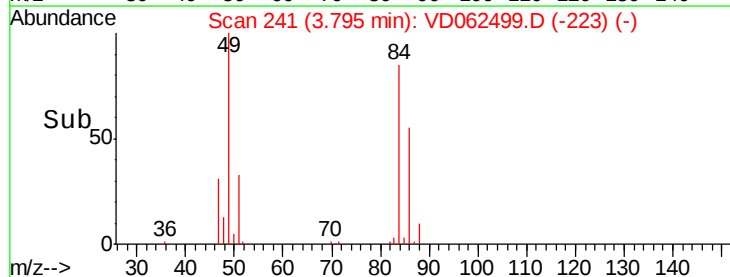
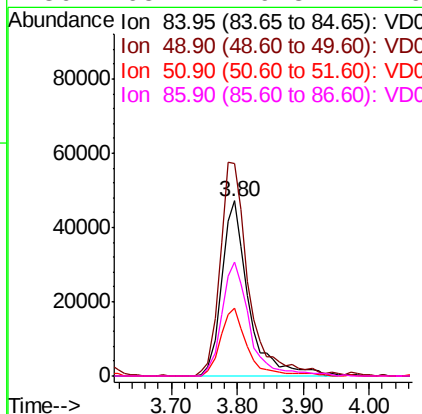
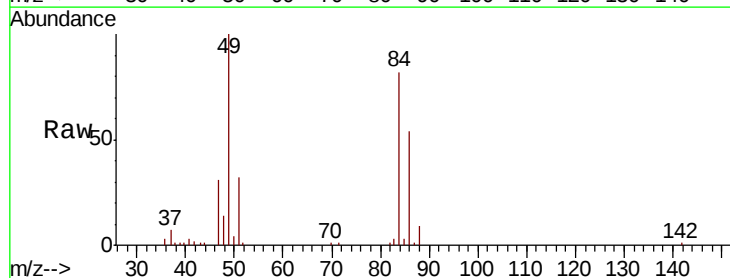
Tot Ion: 73 Resp: 253346
 Ion Ratio Lower Upper
 73 100
 57 13.9 16.3 24.5#

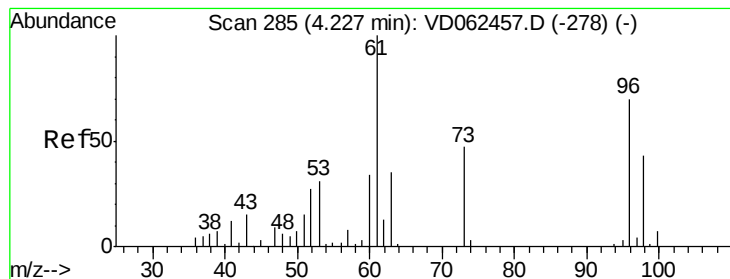


#20

Methylene Chloride
 Concen: 20.171 ug/l
 RT: 3.80 min Scan# 241
 Delta R.T. -0.03 min
 Lab File: VD062499.D
 Acq: 22 May 2019 13:13

Tgt Ion: 84 Resp: 134217
 Ion Ratio Lower Upper
 84 100
 49 121.5 94.0 141.0
 51 38.4 29.0 43.4
 86 65.2 49.8 74.6





#21

trans-1,2-Dichloroethene

Concen: 22.712 ug/l

RT: 4.19 min Scan# 281

Delta R.T. -0.04 min

Lab File: VD062499.D

Acq: 22 May 2019 13:13

Instrument :

MSVOA_D

ClientSampleId :

VD0522SBS01

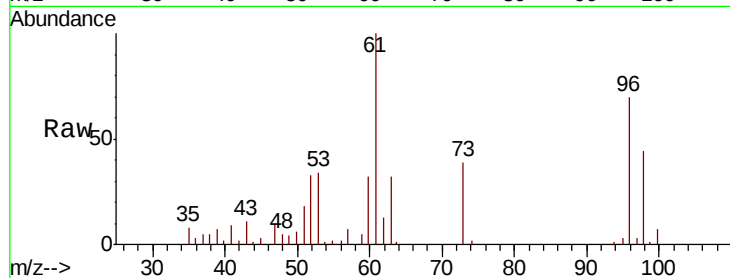
Tot Ion: 96 Resp: 135097

Ion Ratio Lower Upper

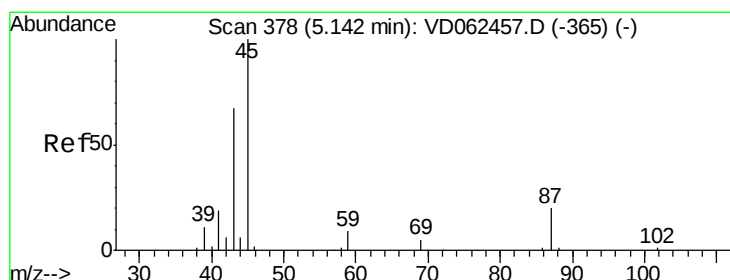
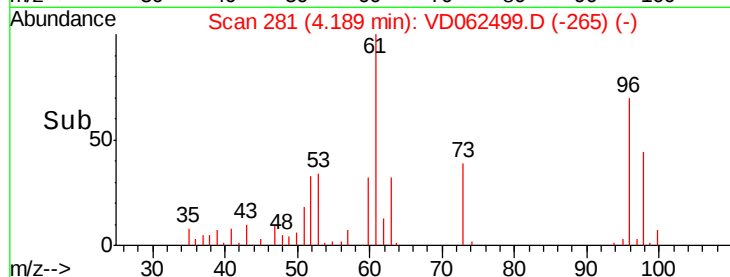
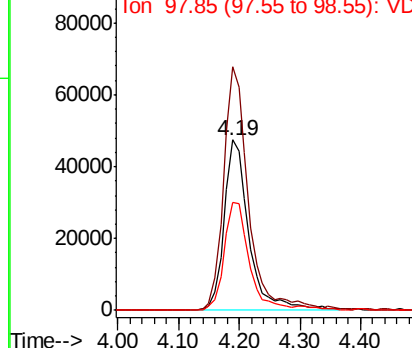
96 100

61 143.0 104.4 156.6

98 63.3 51.8 77.8



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: 21.216 ug/l

RT: 5.09 min Scan# 373

Delta R.T. -0.05 min

Lab File: VD062499.D

Acq: 22 May 2019 13:13

Tgt Ion: 45 Resp: 338333

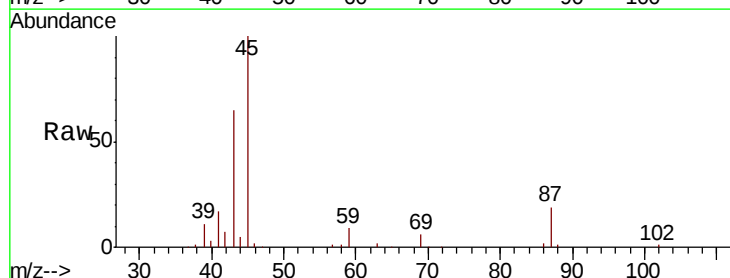
Ion Ratio Lower Upper

45 100

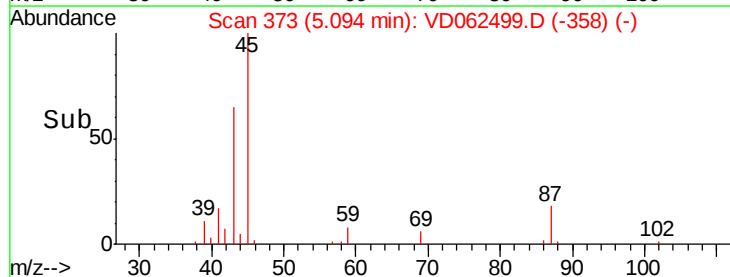
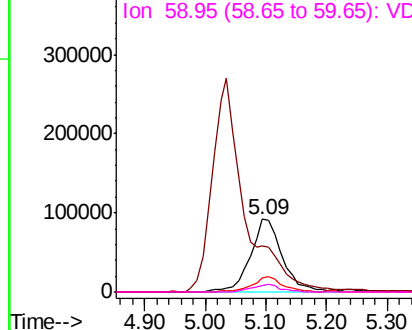
43 64.6 46.2 69.2

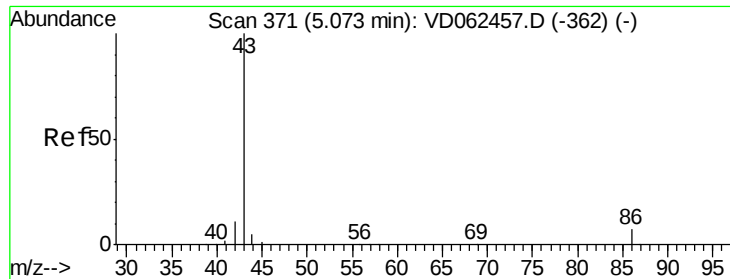
87 18.9 15.9 23.9

59 8.8 7.9 11.9



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: 104.241 ug/l

RT: 5.04 min Scan# 367

Delta R.T. -0.04 min

Lab File: VD062499.D

Acq: 22 May 2019 13:13

Instrument :

MSVOA_D

ClientSampleId :

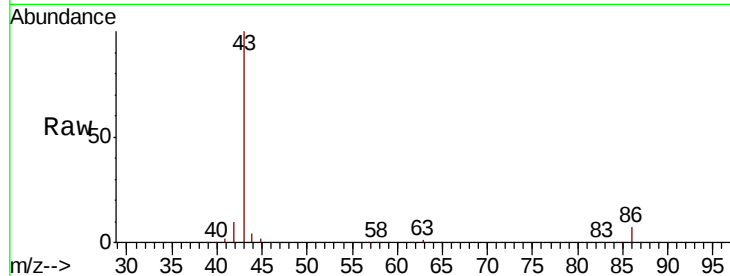
VD0522SBS01

Tot Ion: 43 Resp: 1004454

Ion Ratio Lower Upper

43 100

86 7.0 6.4 9.6



Abundance Ion 42.95 (42.65 to 43.65): VD062457.D (-362) (-)

Ion 86.00 (85.70 to 86.70): VD062457.D (-362) (-)

5.04

300000

250000

200000

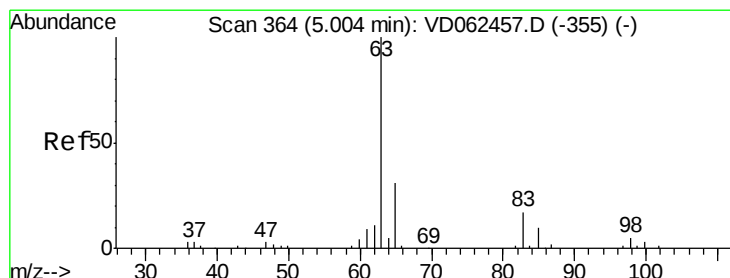
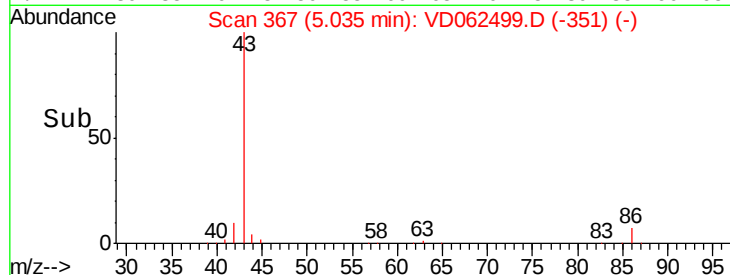
150000

100000

50000

0

Time-->



#24

1,1-Dichloroethane

Concen: 20.752 ug/l

RT: 4.96 min Scan# 359

Delta R.T. -0.05 min

Lab File: VD062499.D

Acq: 22 May 2019 13:13

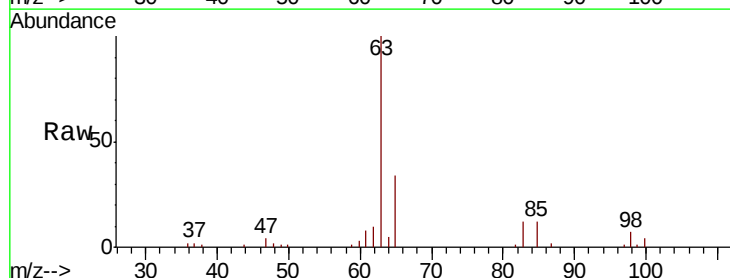
Tgt Ion: 63 Resp: 213127

Ion Ratio Lower Upper

63 100

98 7.1 2.8 8.4

100 4.2 1.8 5.5



Abundance Ion 62.95 (62.65 to 63.65): VD062457.D (-355) (-)

Ion 97.95 (97.65 to 98.65): VD062457.D (-355) (-)

Ion 99.95 (99.65 to 100.65): VD062457.D (-355) (-)

4.96

80000

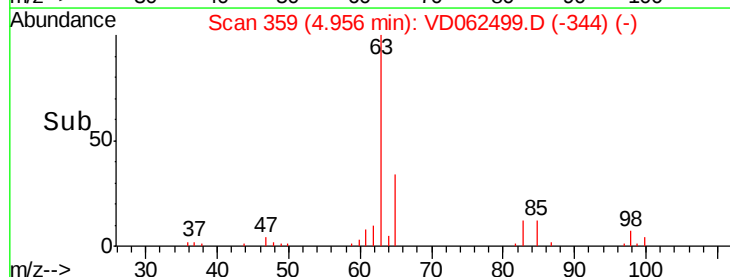
60000

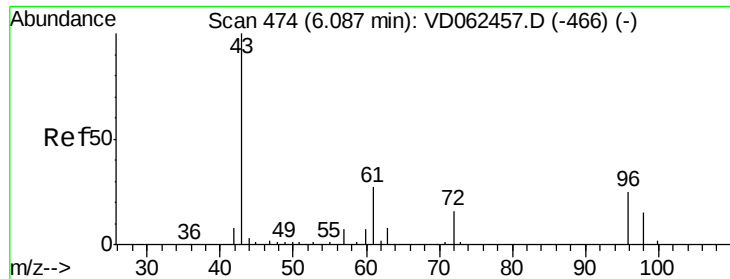
40000

20000

0

Time-->





#25

2-Butanone

Concen: 109.347 ug/l

RT: 6.05 min Scan# 470

Delta R.T. -0.04 min

Lab File: VD062499.D

Acq: 22 May 2019 13:13

Instrument :

MSVOA_D

ClientSampleId :

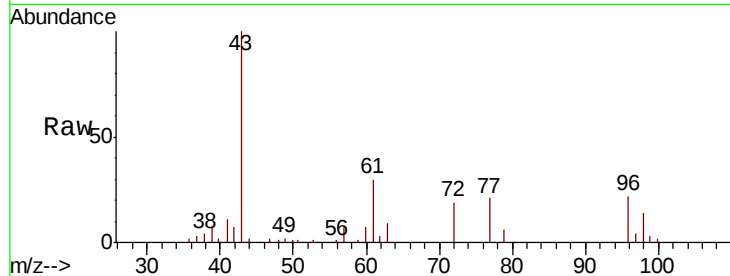
VD0522SBS01

Tot Ion: 43 Resp: 150515

Ion Ratio Lower Upper

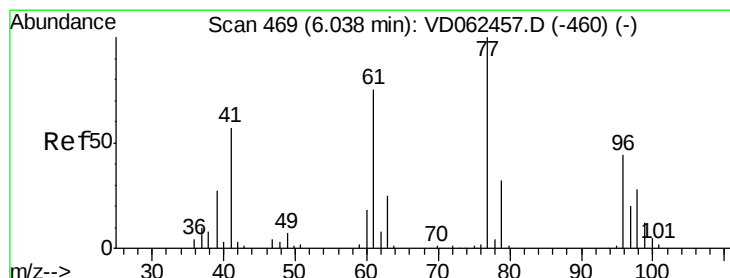
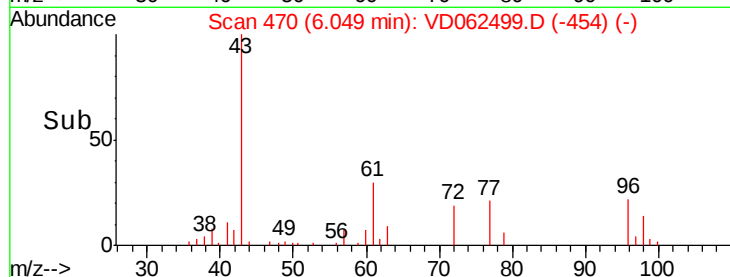
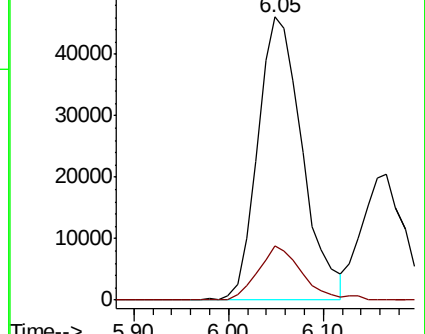
43 100

72 19.0 16.2 24.4



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 21.829 ug/l

RT: 6.00 min Scan# 465

Delta R.T. -0.04 min

Lab File: VD062499.D

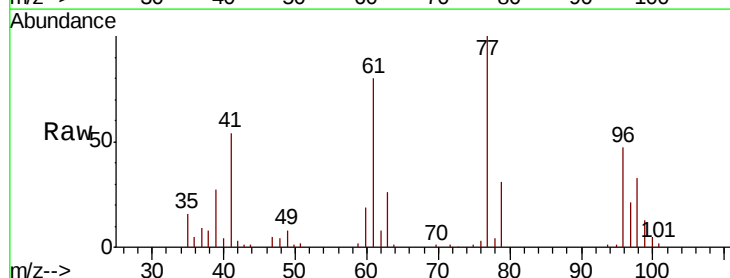
Acq: 22 May 2019 13:13

Tgt Ion: 77 Resp: 241669

Ion Ratio Lower Upper

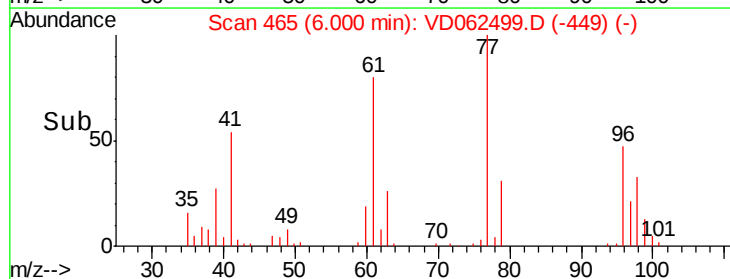
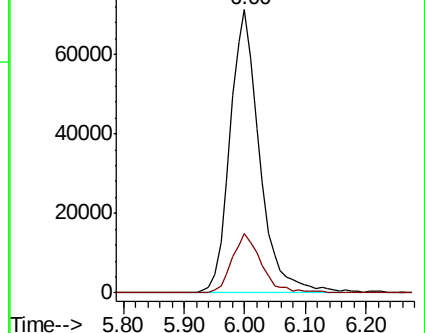
77 100

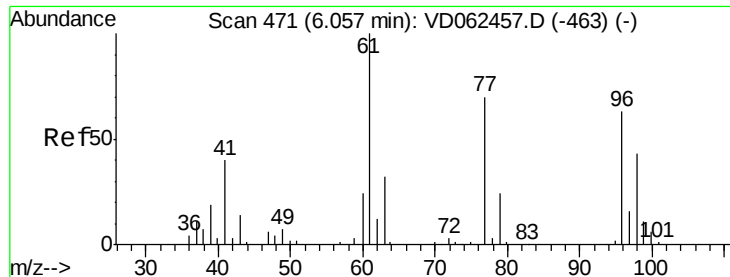
97 20.9 11.9 35.9



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC





#27

cis-1,2-Dichloroethene

Concen: 21.971 ug/l

RT: 6.01 min Scan# 466

Delta R.T. -0.05 min

Lab File: VD062499.D

Acq: 22 May 2019 13:13

Instrument :

MSVOA_D

ClientSampleId :

VD0522SBS01

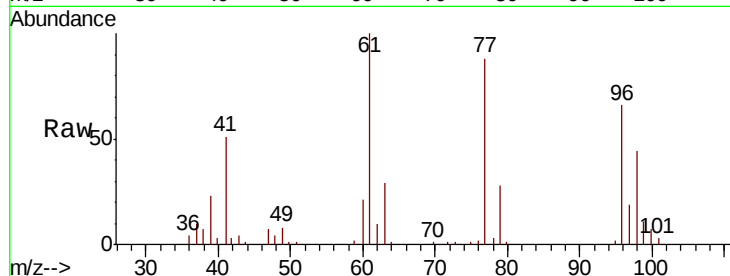
Tot Ion: 96 Resp: 140923

Ion Ratio Lower Upper

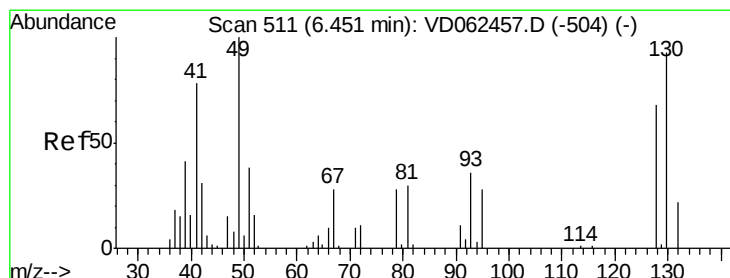
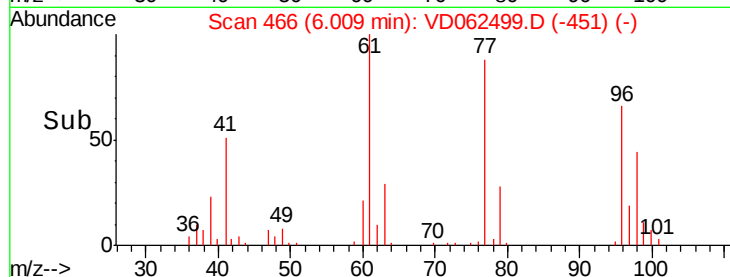
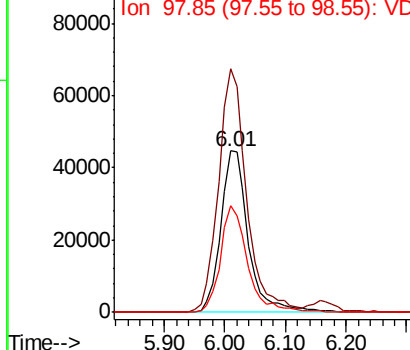
96 100

61 150.9 0.0 279.8

98 66.2 0.0 136.0



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



#28

Bromochloromethane

Concen: 21.120 ug/l

RT: 6.41 min Scan# 507

Delta R.T. -0.04 min

Lab File: VD062499.D

Acq: 22 May 2019 13:13

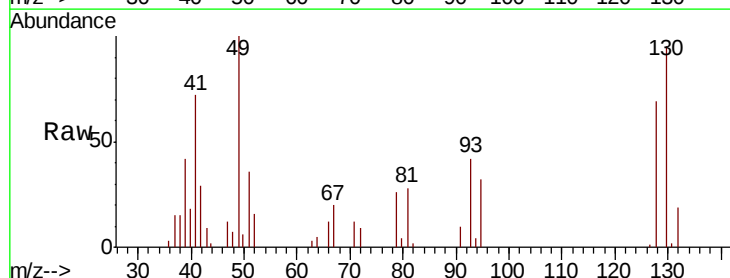
Tgt Ion: 49 Resp: 77849

Ion Ratio Lower Upper

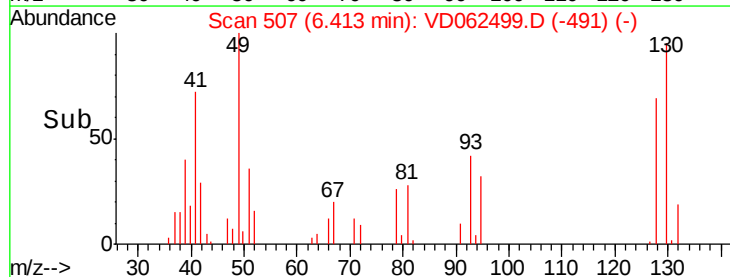
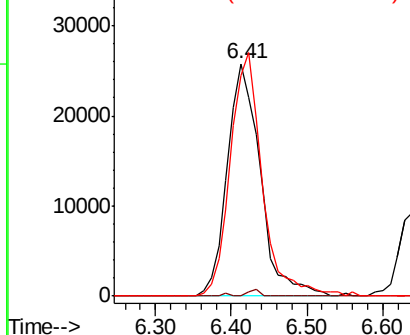
49 100

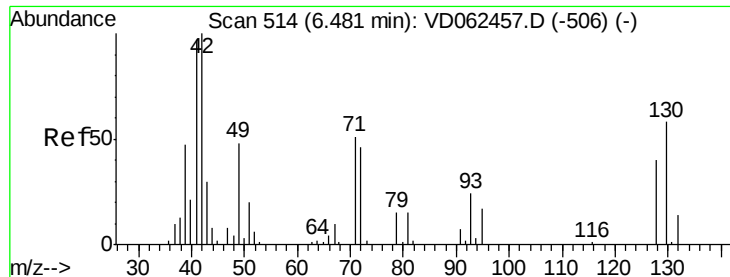
129 0.0 0.0 6.6

130 95.2 86.7 130.1



Abundance Ion 48.90 (48.60 to 49.60): VDC
Ion 128.80 (128.50 to 129.50): V
Ion 129.80 (129.50 to 130.50): V





#29

Tetrahydrofuran

Concen: 102.173 ug/l

RT: 6.43 min Scan# 509

Delta R.T. -0.05 min

Lab File: VD062499.D

Acq: 22 May 2019 13:13

Instrument :

MSVOA_D

ClientSampleId :

VD0522SBS01

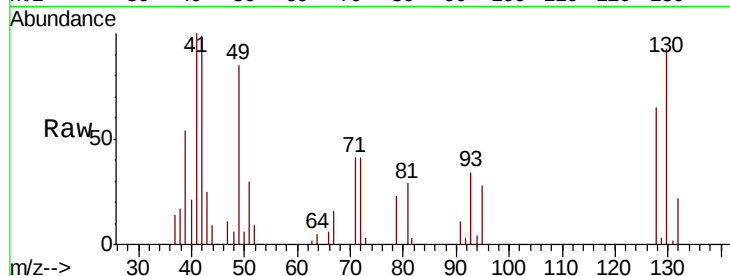
Tot Ion: 42 Resp: 67168

Ion Ratio Lower Upper

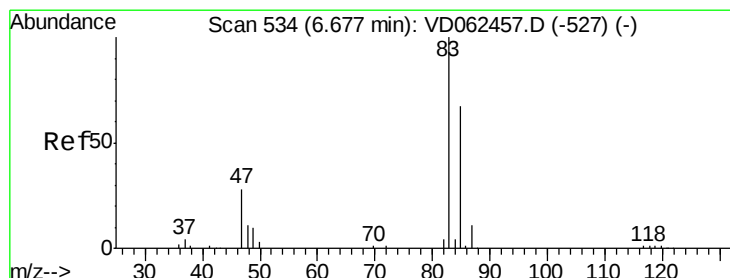
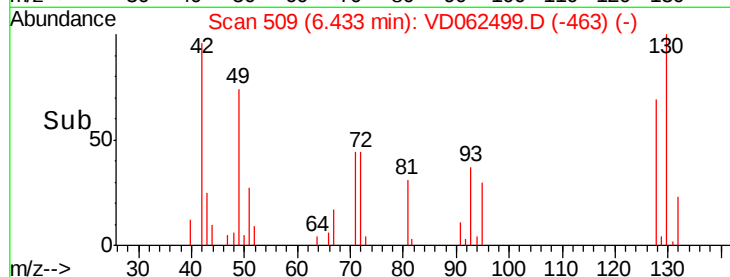
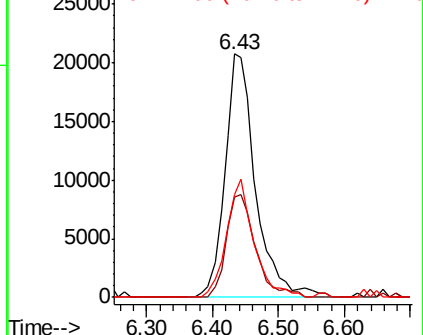
42 100

72 40.7 37.8 56.6

71 43.4 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



#30

Chloroform

Concen: 20.436 ug/l

RT: 6.64 min Scan# 530

Delta R.T. -0.04 min

Lab File: VD062499.D

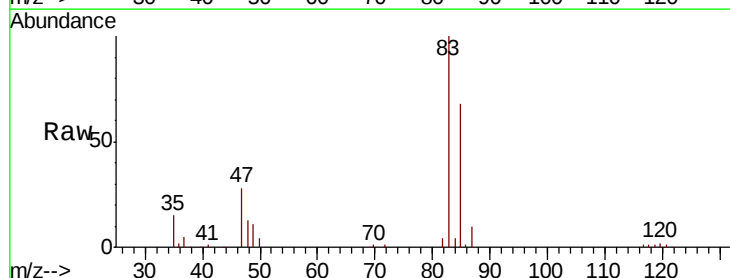
Acq: 22 May 2019 13:13

Tgt Ion: 83 Resp: 267578

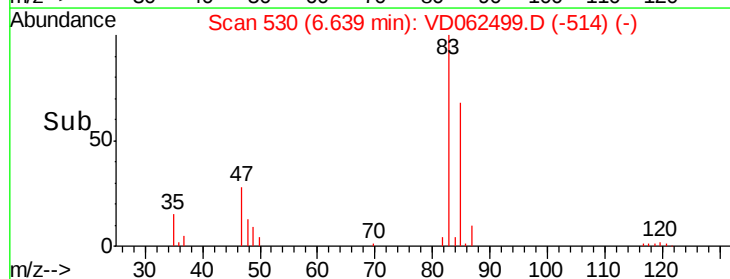
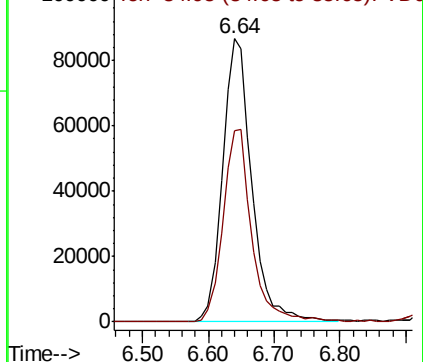
Ion Ratio Lower Upper

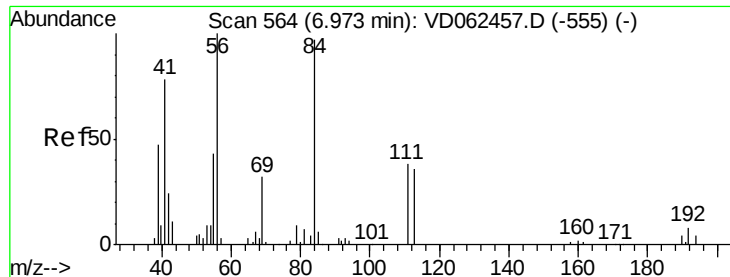
83 100

85 67.6 51.7 77.5



Abundance Ion 82.95 (82.65 to 83.65): VDC
Ion 84.95 (84.65 to 85.65): VDC

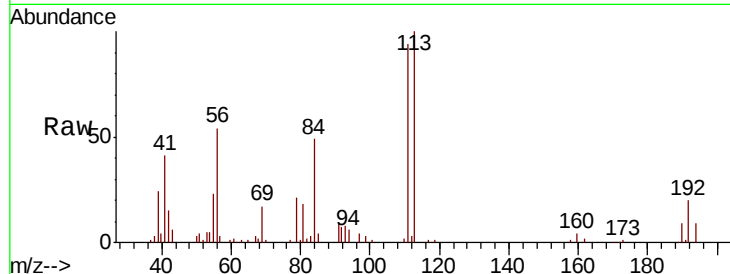




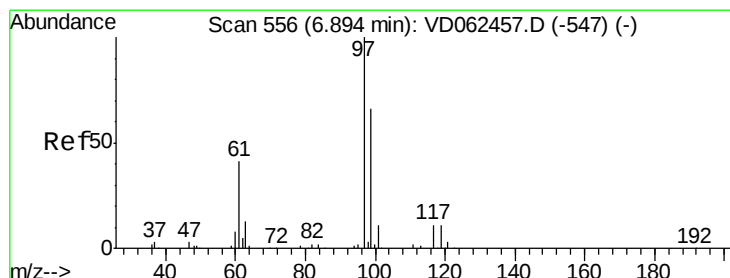
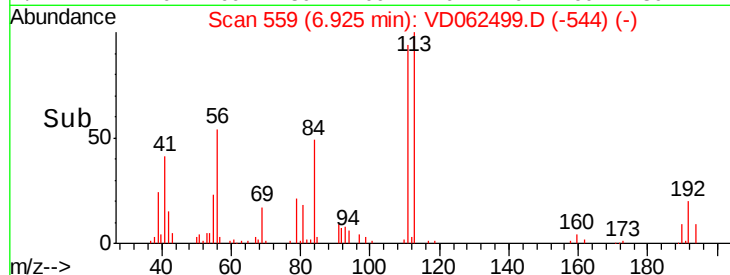
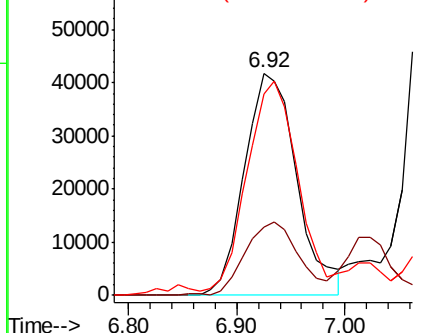
#31
Cvclohexane
Concen: 20.274 ug/l
RT: 6.92 min Scan# 559
Delta R.T. -0.05 min
Lab File: VD062499.D
Acq: 22 May 2019 13:13

Instrument :
MSVOA_D
ClientSampleId :
VD0522SBS01

Tot Ion: 56 Resp: 140592
Ion Ratio Lower Upper
56 100
69 30.5 25.8 38.6
84 90.3 72.2 108.4

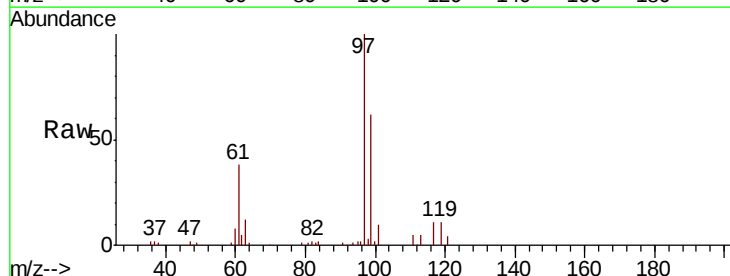


Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC

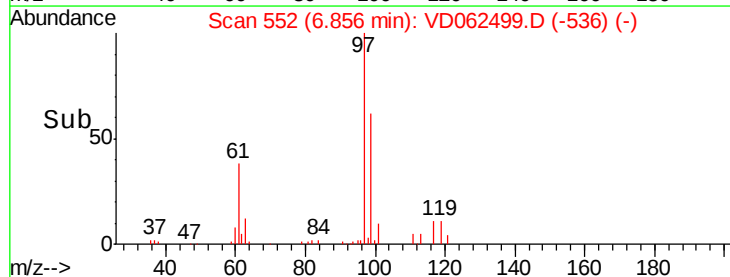
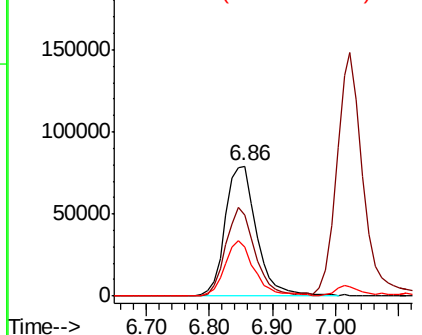


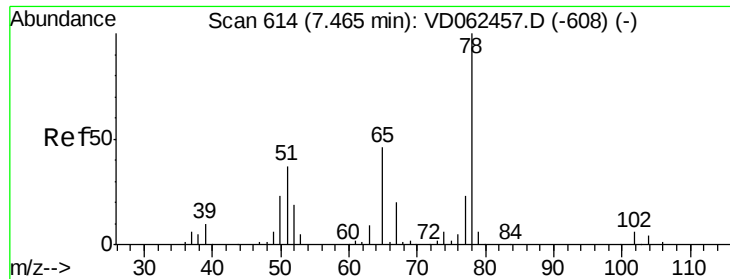
#32
1,1,1-Trichloroethane
Concen: 20.745 ug/l
RT: 6.86 min Scan# 552
Delta R.T. -0.04 min
Lab File: VD062499.D
Acq: 22 May 2019 13:13

Tgt Ion: 97 Resp: 274226
Ion Ratio Lower Upper
97 100
99 62.0 52.2 78.2
61 37.7 32.4 48.6



Abundance Ion 96.85 (96.55 to 97.55): VDC
Ion 98.85 (98.55 to 99.55): VDC
Ion 60.95 (60.65 to 61.65): VDC





#33

1,2-Dichloroethane-d4

Concen: 57.527 ug/l

RT: 7.43 min Scan# 610

Delta R.T. -0.04 min

Lab File: VD062499.D

Acq: 22 May 2019 13:13

Instrument :

MSVOA_D

ClientSampleId :

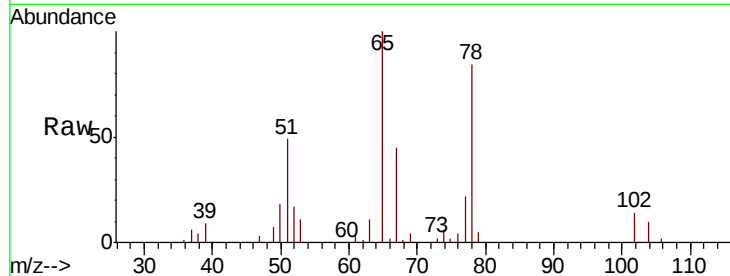
VD0522SBS01

Tot Ion: 65 Resp: 422493

Ion Ratio Lower Upper

65 100

67 44.5 0.0 98.0



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

7.43

150000

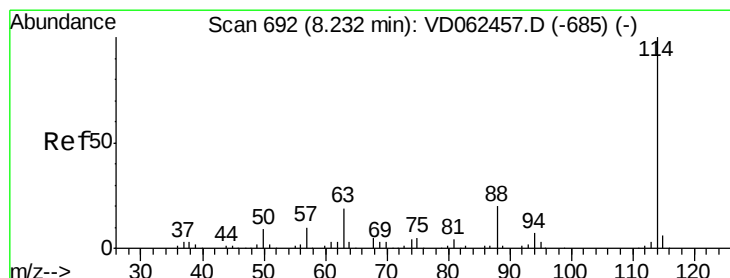
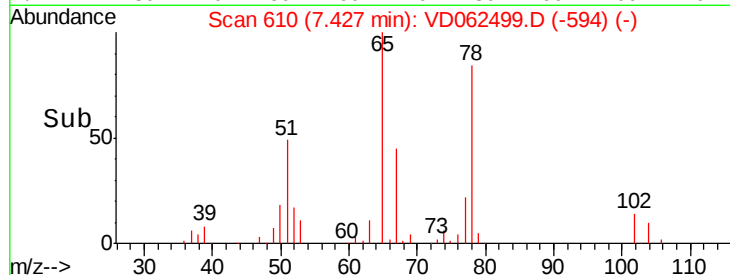
100000

50000

0

Time-->

7.30 7.40 7.50 7.60



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.19 min Scan# 688

Delta R.T. -0.04 min

Lab File: VD062499.D

Acq: 22 May 2019 13:13

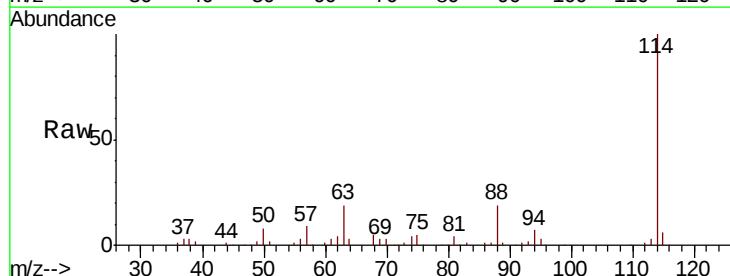
Tgt Ion: 114 Resp: 906027

Ion Ratio Lower Upper

114 100

63 19.0 0.0 32.4

88 19.1 0.0 33.6



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC

8.19

400000

300000

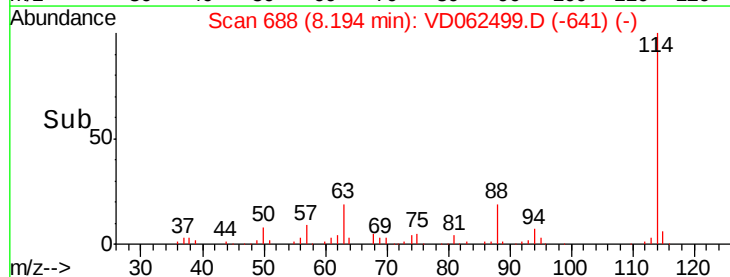
200000

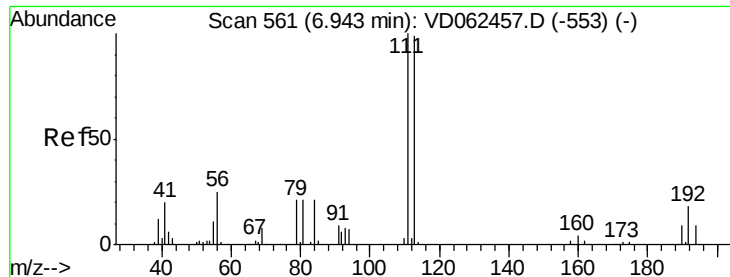
100000

0

Time-->

8.00 8.10 8.20 8.30 8.40

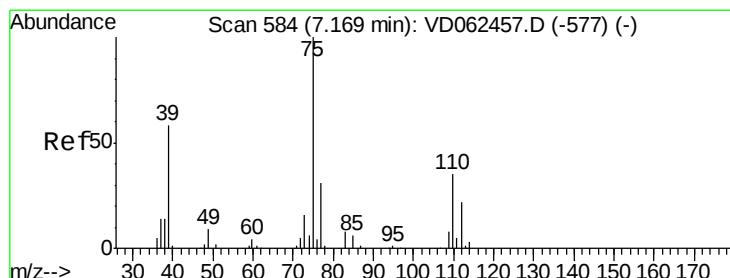
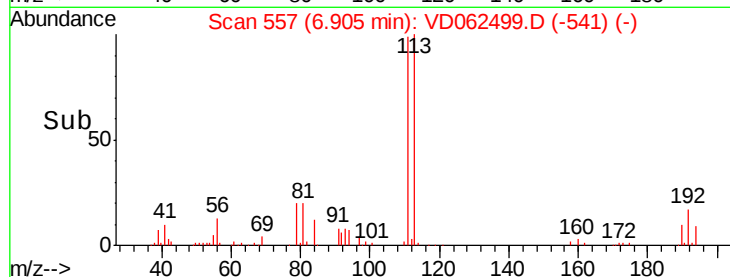
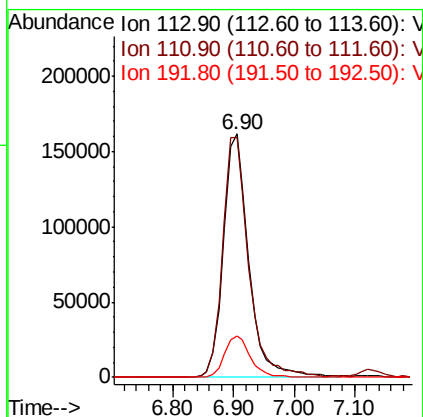
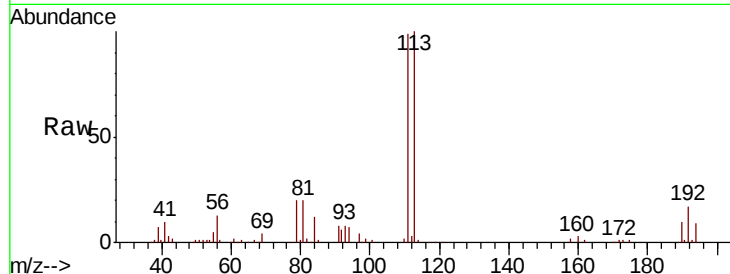




#35
 Dibromofluoromethane
 Concen: 57.543 ug/l
 RT: 6.90 min Scan# 557
 Delta R.T. -0.04 min
 Lab File: VD062499.D
 Acq: 22 May 2019 13:13

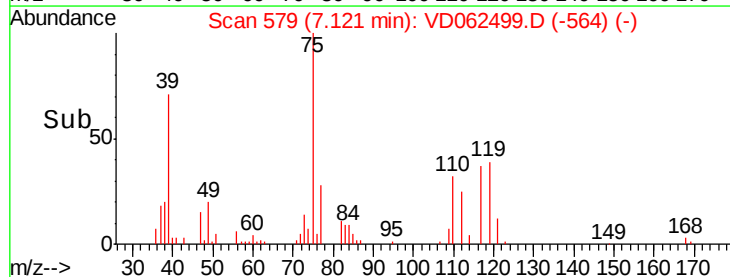
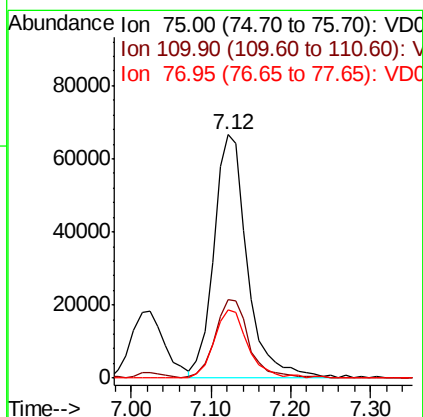
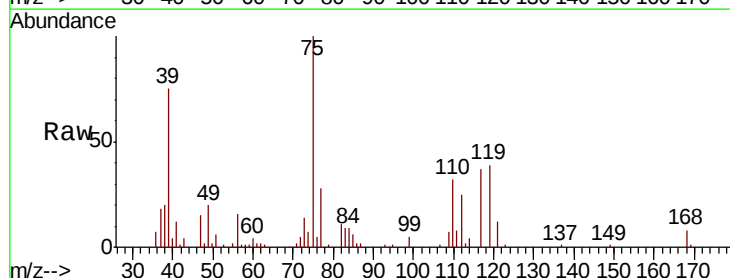
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0522SBS01

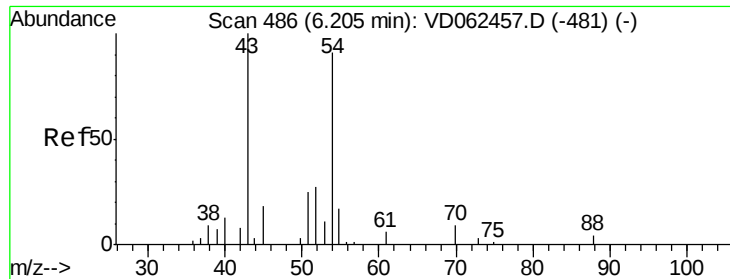
Tot Ion:113 Resp: 470330
 Ion Ratio Lower Upper
 113 100
 111 98.7 78.5 117.7
 192 16.9 13.0 19.4



#36
 1,1-Dichloropropene
 Concen: 22.645 ug/l
 RT: 7.12 min Scan# 579
 Delta R.T. -0.05 min
 Lab File: VD062499.D
 Acq: 22 May 2019 13:13

Tgt Ion: 75 Resp: 196152
 Ion Ratio Lower Upper
 75 100
 110 32.5 19.1 57.1
 77 28.2 25.6 38.4





#37

Ethyl Acetate

Concen: 19.772 ug/l

RT: 6.17 min Scan# 482

Delta R.T. -0.04 min

Lab File: VD062499.D

Acq: 22 May 2019 13:13

Instrument :

MSVOA_D

ClientSampleId :

VD0522SBS01

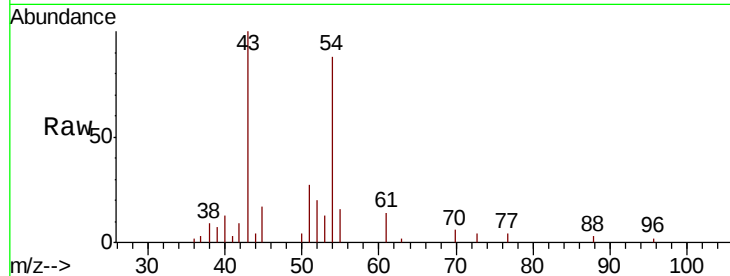
Tot Ion: 43 Resp: 66534

Ion Ratio Lower Upper

43 100

61 13.9 14.7 22.1#

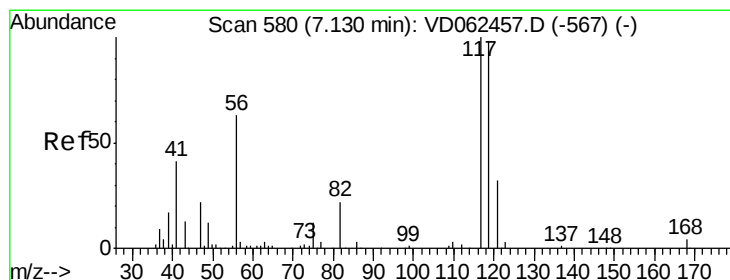
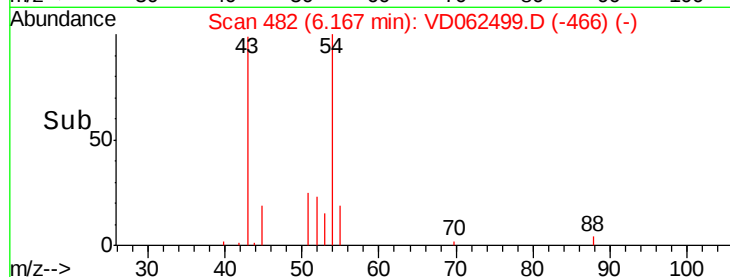
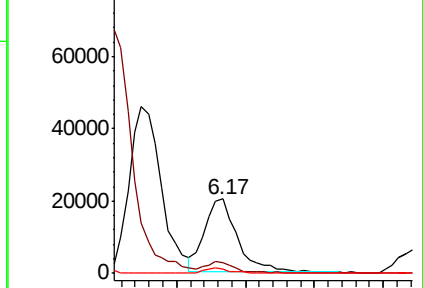
70 6.4 7.8 11.6#



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: 22.254 ug/l

RT: 7.09 min Scan# 576

Delta R.T. -0.04 min

Lab File: VD062499.D

Acq: 22 May 2019 13:13

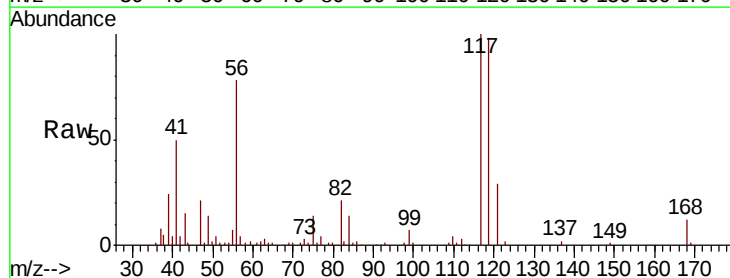
Tgt Ion: 117 Resp: 286494

Ion Ratio Lower Upper

117 100

119 97.7 75.8 113.8

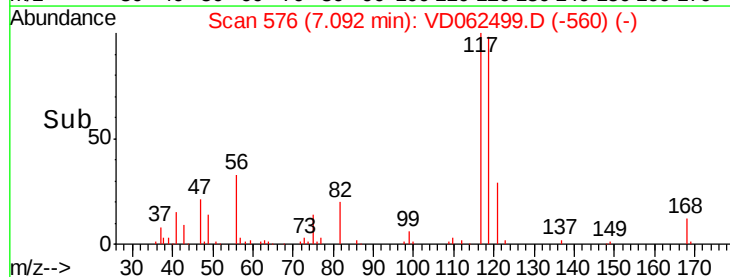
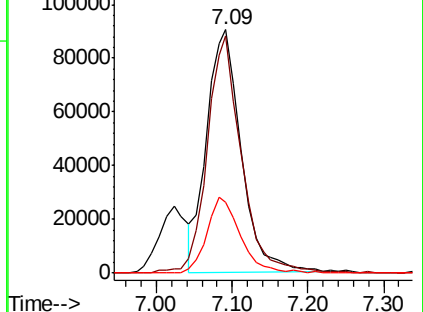
121 29.2 25.9 38.9

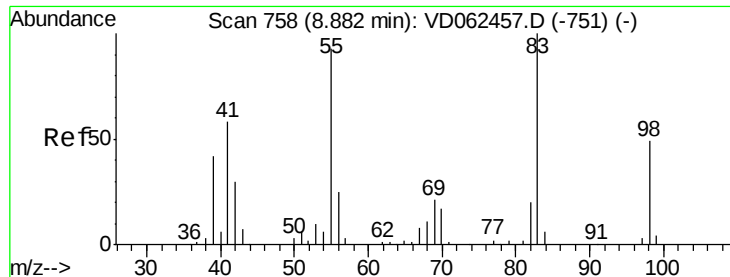


Abundance Ion 116.85 (116.55 to 117.55): V

Ion 118.85 (118.55 to 119.55): V

Ion 120.85 (120.55 to 121.55): V

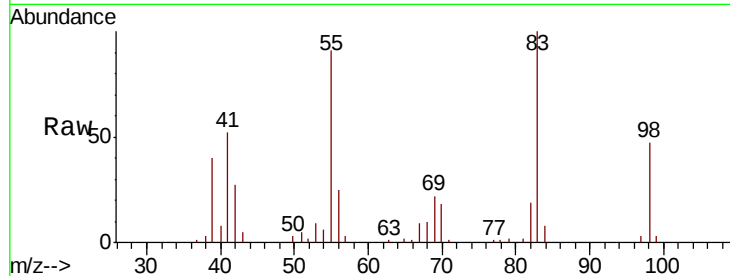




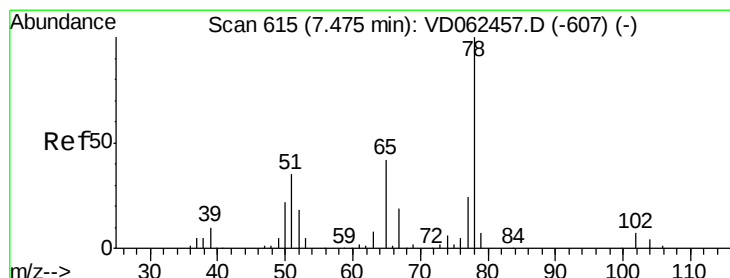
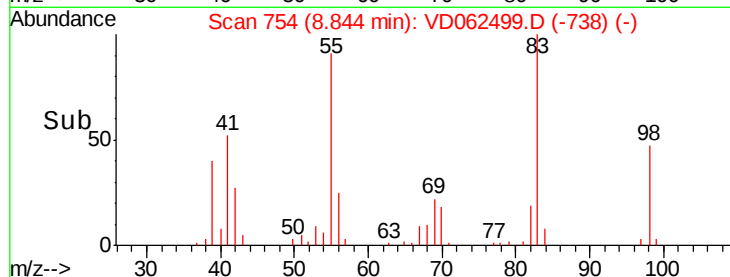
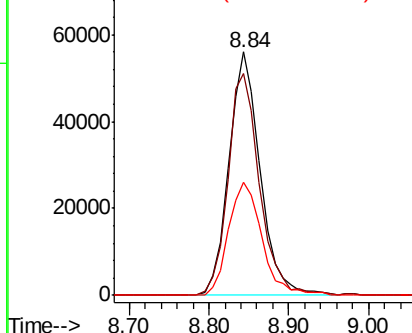
#39
Methvlcvclohexane
Concen: 21.416 ug/l
RT: 8.84 min Scan# 754
Delta R.T. -0.04 min
Lab File: VD062499.D
Acq: 22 May 2019 13:13

Instrument :
MSVOA_D
ClientSampleId :
VD0522SBS01

Tot Ion: 83 Resp: 153007
Ion Ratio Lower Upper
83 100
55 91.0 68.2 102.4
98 46.6 38.2 57.4

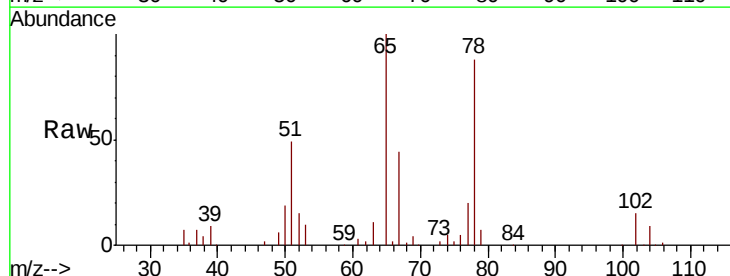


Abundance Ion 83.05 (82.75 to 83.75): VDC
Ion 55.00 (54.70 to 55.70): VDC
Ion 98.05 (97.75 to 98.75): VDC

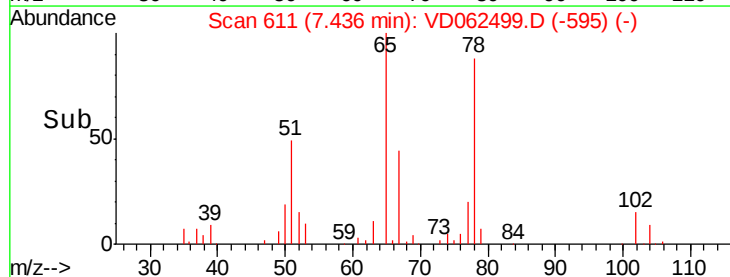
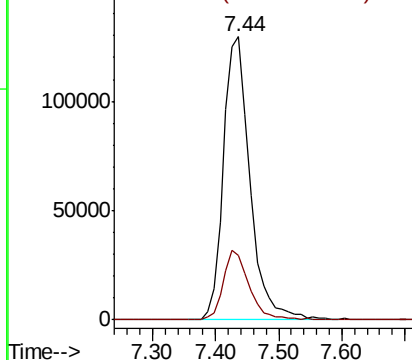


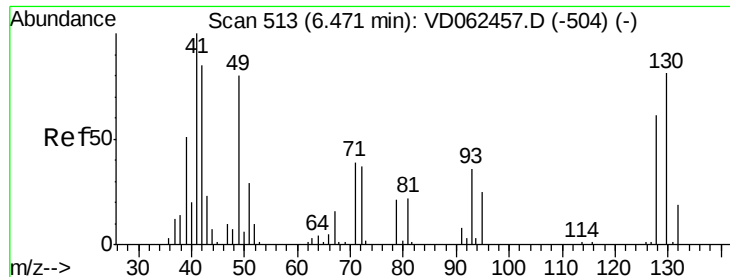
#40
Benzene
Concen: 22.246 ug/l
RT: 7.44 min Scan# 611
Delta R.T. -0.04 min
Lab File: VD062499.D
Acq: 22 May 2019 13:13

Tgt Ion: 78 Resp: 377991
Ion Ratio Lower Upper
78 100
77 22.7 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: 20.334 ug/l

RT: 6.43 min Scan# 509

Delta R.T. -0.04 min

Lab File: VD062499.D

Acq: 22 May 2019 13:13

Instrument :

MSVOA_D

ClientSampleId :

VD0522SBS01

Tot Ion: 41 Resp: 85940

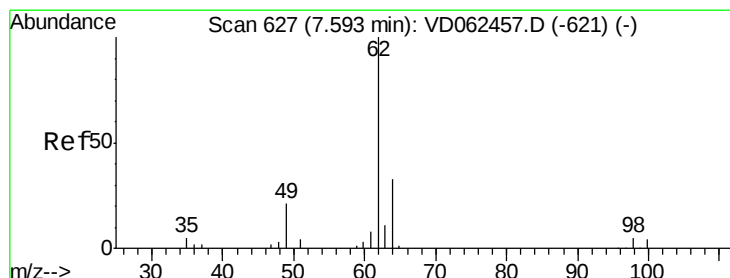
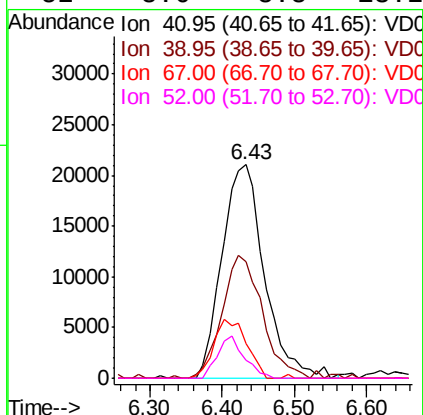
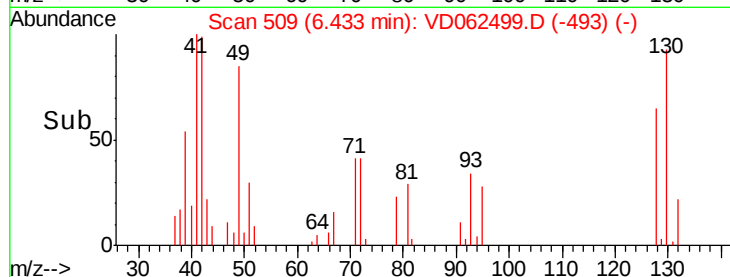
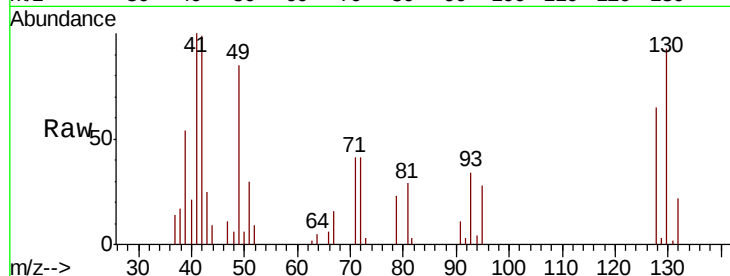
Ion Ratio Lower Upper

41 100

39 54.3 34.1 51.1#

67 16.0 23.8 35.6#

52 8.6 8.8 13.2#



#42

1,2-Dichloroethane

Concen: 21.579 ug/l

RT: 7.55 min Scan# 623

Delta R.T. -0.04 min

Lab File: VD062499.D

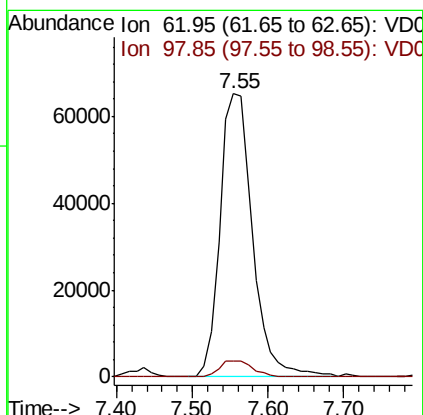
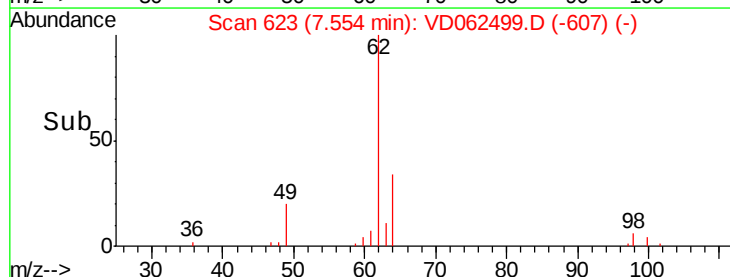
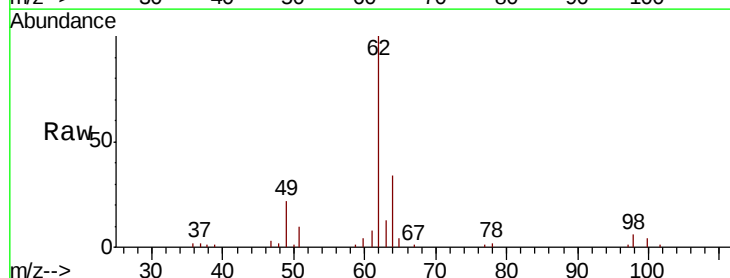
Acq: 22 May 2019 13:13

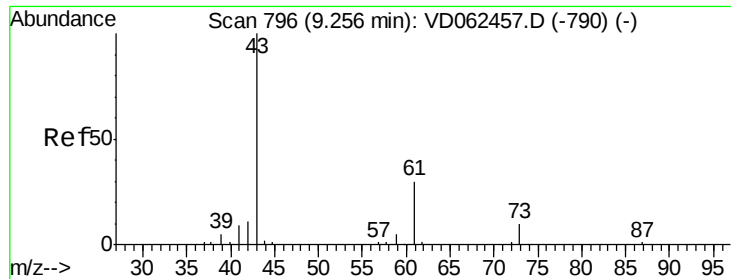
Tgt Ion: 62 Resp: 194158

Ion Ratio Lower Upper

62 100

98 5.7 0.0 17.8





#43

Isopropyl Acetate

Concen: 22.062 ug/l

RT: 9.23 min Scan# 793

Delta R.T. -0.03 min

Lab File: VD062499.D

Acq: 22 May 2019 13:13

Instrument :

MSVOA_D

ClientSampleId :

VD0522SBS01

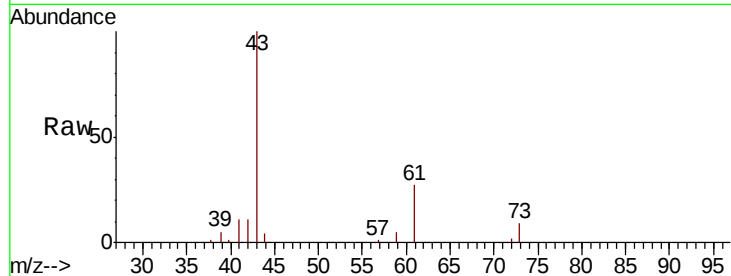
Tot Ion: 43 Resp: 98491

Ion Ratio Lower Upper

43 100

61 27.1 25.1 37.7

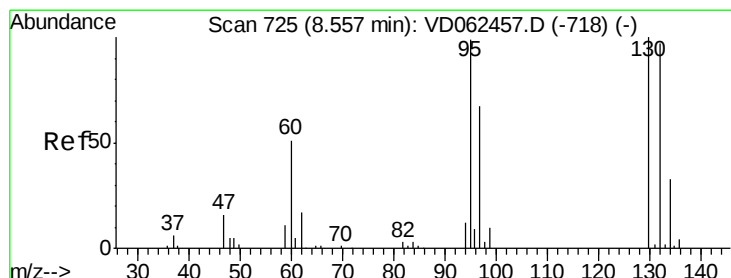
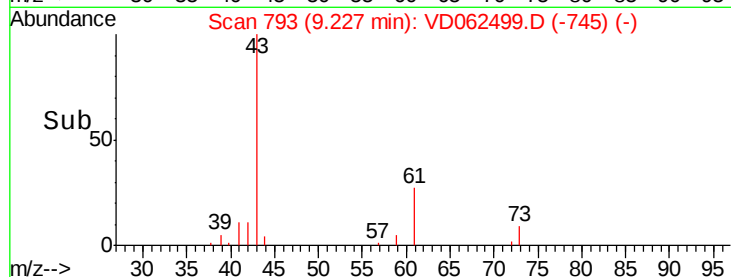
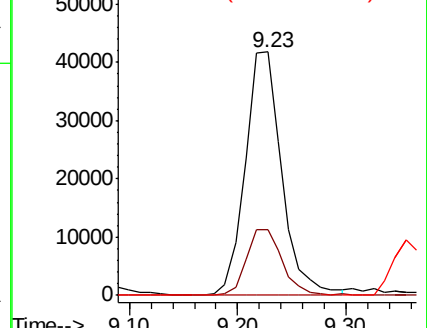
87 0.0 0.0 0.0



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



#44

Trichloroethene

Concen: 21.270 ug/l

RT: 8.52 min Scan# 721

Delta R.T. -0.04 min

Lab File: VD062499.D

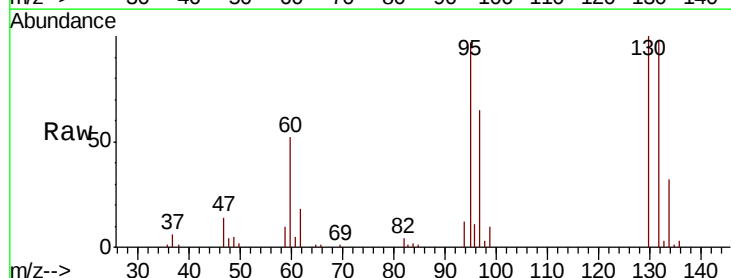
Acq: 22 May 2019 13:13

Tgt Ion:130 Resp: 144703

Ion Ratio Lower Upper

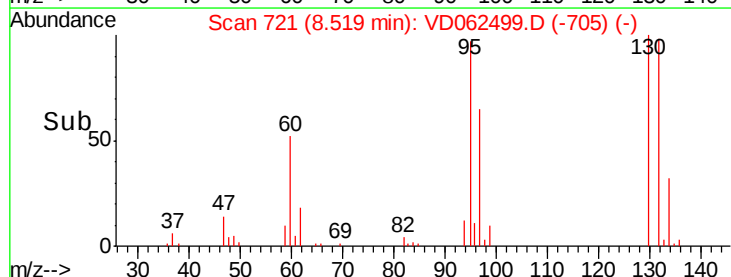
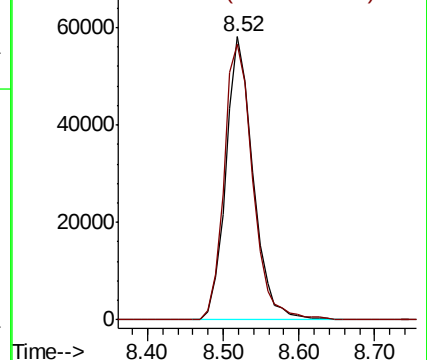
130 100

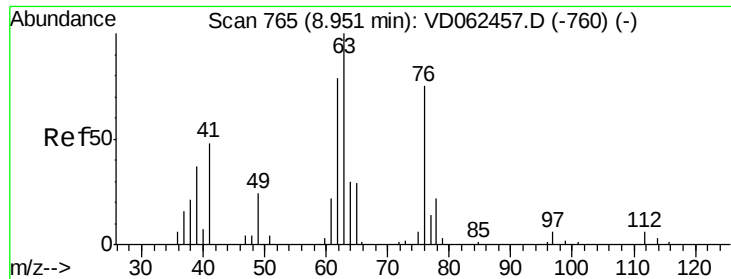
95 97.3 0.0 174.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VDC





#45

1,2-Dichloropropane

Concen: 21.674 ug/l

RT: 8.92 min Scan# 762

Delta R.T. -0.03 min

Lab File: VD062499.D

Acq: 22 May 2019 13:13

Instrument :

MSVOA_D

ClientSampleId :

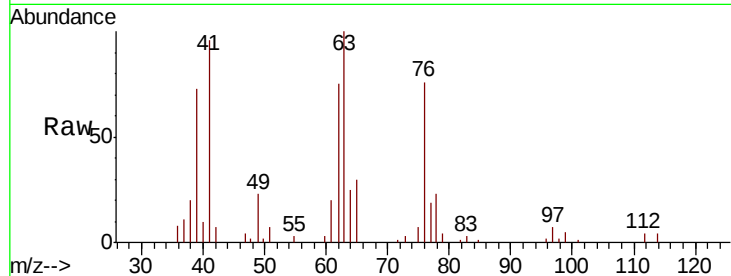
VD0522SBS01

Tot Ion: 63 Resp: 89746

Ion Ratio Lower Upper

63 100

65 30.2 23.8 35.6



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 64.95 (64.65 to 65.65): VDC

8.92

40000

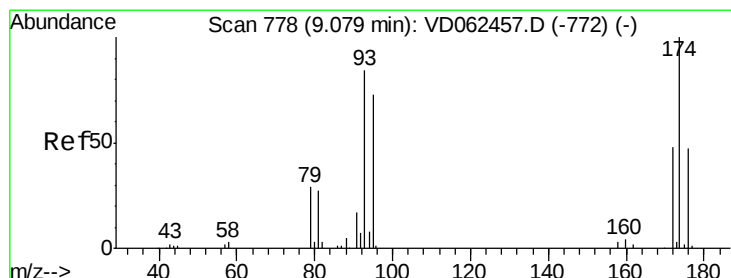
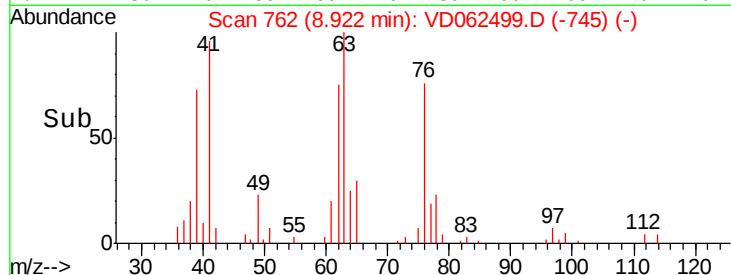
30000

20000

10000

0

Time--> 8.70 8.80 8.90 9.00 9.10



#46

Dibromomethane

Concen: 22.080 ug/l

RT: 9.04 min Scan# 774

Delta R.T. -0.04 min

Lab File: VD062499.D

Acq: 22 May 2019 13:13

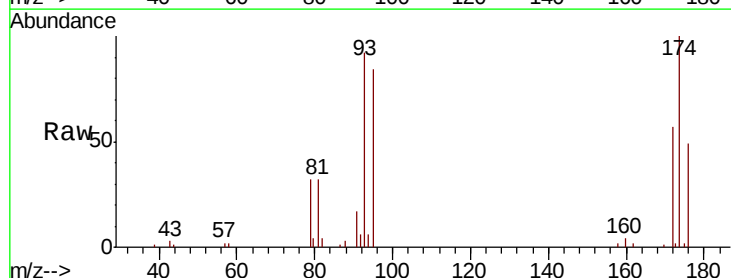
Tgt Ion: 93 Resp: 82876

Ion Ratio Lower Upper

93 100

95 91.4 64.8 97.2

174 108.9 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

50000

40000

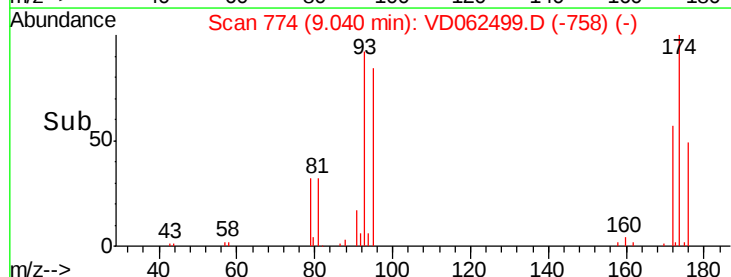
30000

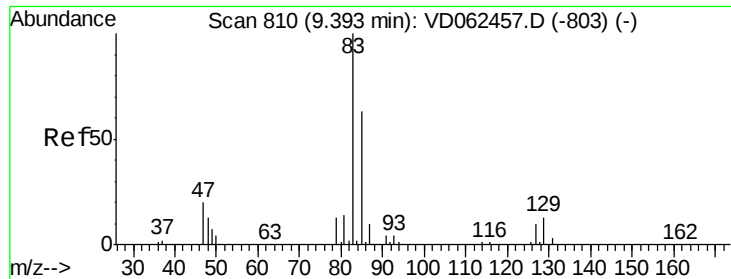
20000

10000

0

Time--> 8.90 9.00 9.10 9.20





#47

Bromodichloromethane

Concen: 21.391 ug/l

RT: 9.36 min Scan# 806

Delta R.T. -0.04 min

Lab File: VD062499.D

Acq: 22 May 2019 13:13

Instrument :

MSVOA_D

ClientSampleId :

VD0522SBS01

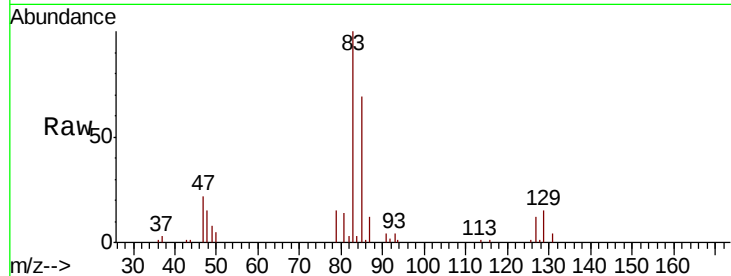
Tot Ion: 83 Resp: 204245

Ion Ratio Lower Upper

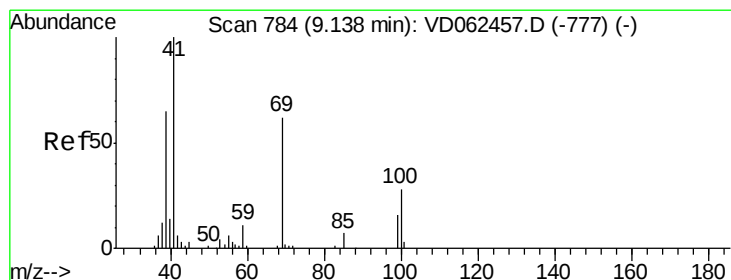
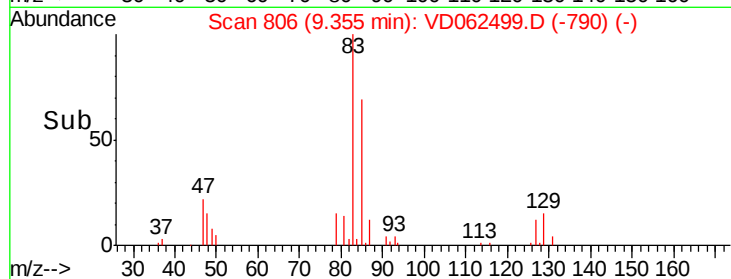
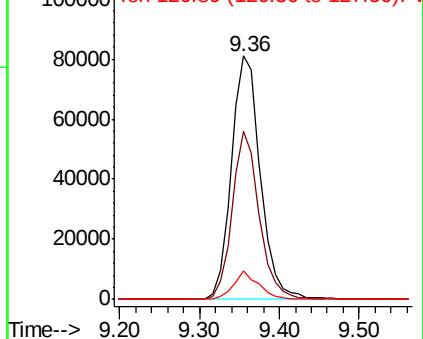
83 100

85 68.9 50.9 76.3

127 11.8 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): VDC



#48

Methyl methacrylate

Concen: 22.039 ug/l

RT: 9.10 min Scan# 780

Delta R.T. -0.04 min

Lab File: VD062499.D

Acq: 22 May 2019 13:13

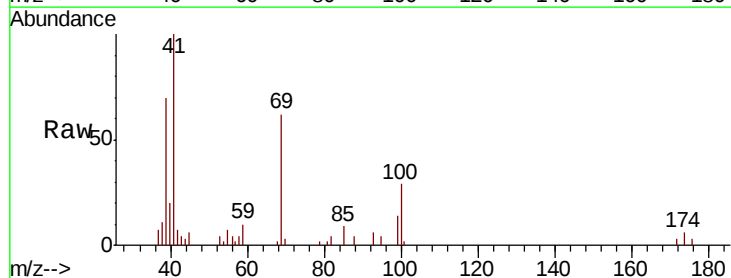
Tgt Ion: 41 Resp: 66208

Ion Ratio Lower Upper

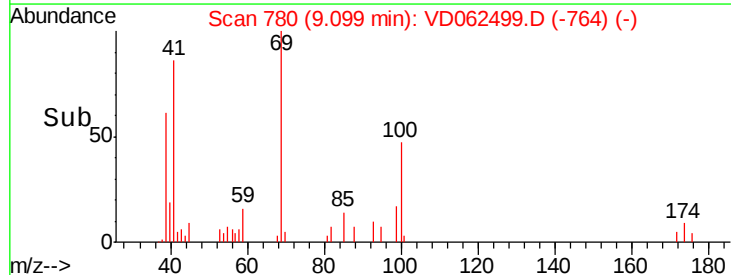
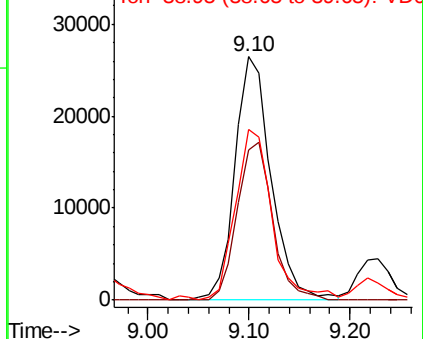
41 100

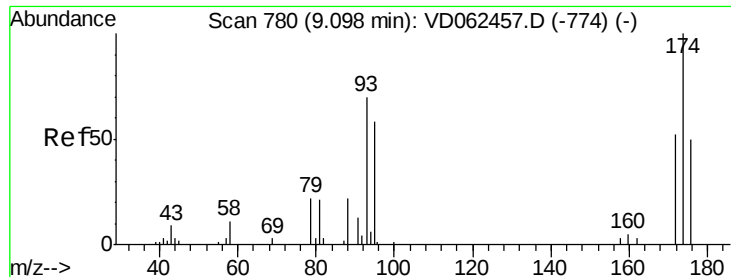
69 61.9 64.2 96.2#

39 70.0 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

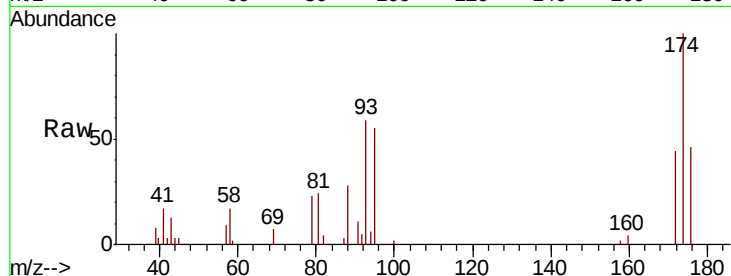




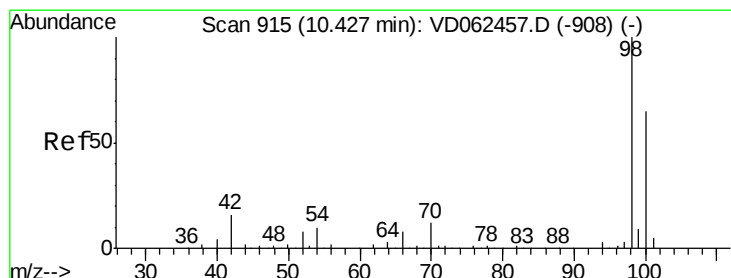
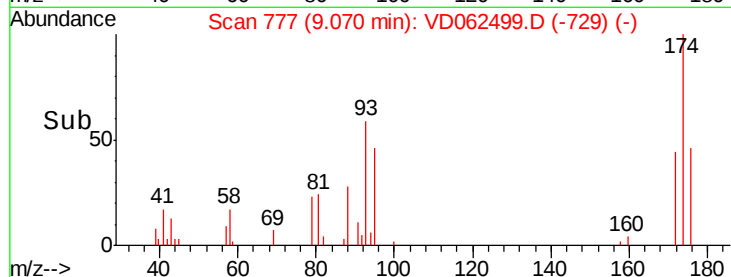
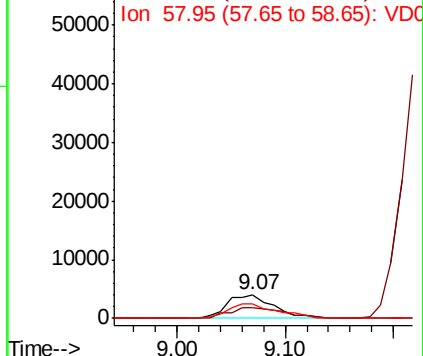
#49
 1,4-Dioxane
 Concen: 448.480 ug/l
 RT: 9.07 min Scan# 777
 Delta R.T. -0.03 min
 Lab File: VD062499.D
 Acq: 22 May 2019 13:13

Instrument :
 MSVOA_D
 ClientSampleID :
 VD0522SBS01

Tot Ion: 88 Resp: 12085
 Ion Ratio Lower Upper
 88 100
 43 45.6 23.4 35.0#
 58 58.5 44.0 66.0

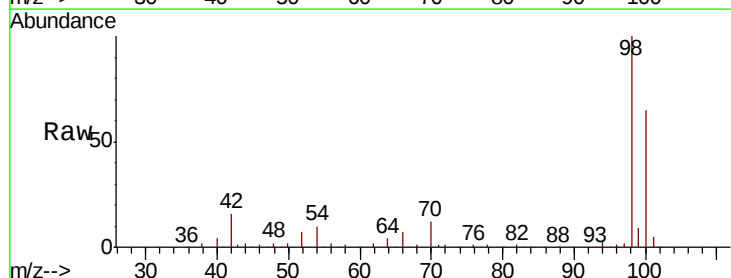


Abundance Ion 88.00 (87.70 to 88.70): VDC
 Ion 43.05 (42.75 to 43.75): VDC
 Ion 57.95 (57.65 to 58.65): VDC

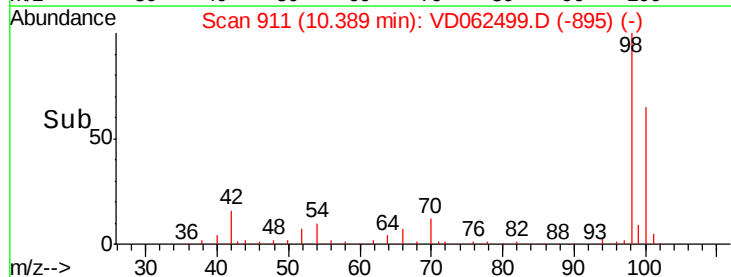
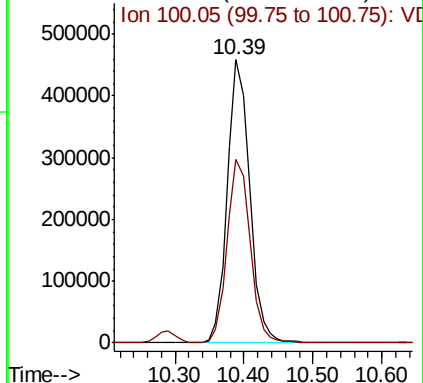


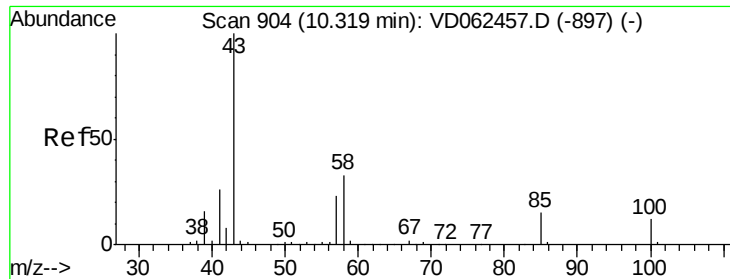
#50
 Toluene-d8
 Concen: 57.913 ug/l
 RT: 10.39 min Scan# 911
 Delta R.T. -0.04 min
 Lab File: VD062499.D
 Acq: 22 May 2019 13:13

Tgt Ion: 98 Resp: 1035867
 Ion Ratio Lower Upper
 98 100
 100 64.8 53.8 80.8



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





#51

4-Methyl-2-Pentanone

Concen: 114.403 ug/l

RT: 10.28 min Scan# 900

Delta R.T. -0.04 min

Lab File: VD062499.D

Acq: 22 May 2019 13:13

Instrument :

MSVOA_D

ClientSampleId :

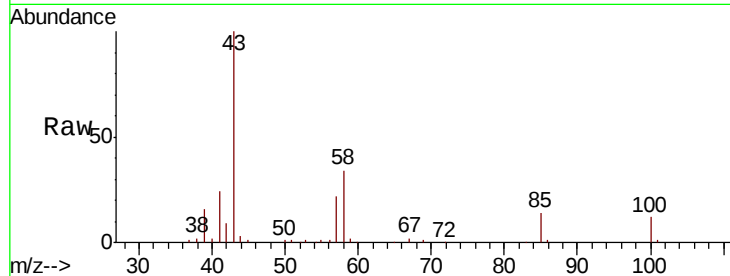
VD0522SBS01

Tot Ion: 43 Resp: 337392

Ion Ratio Lower Upper

43 100

58 34.2 30.4 45.6



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

10.28

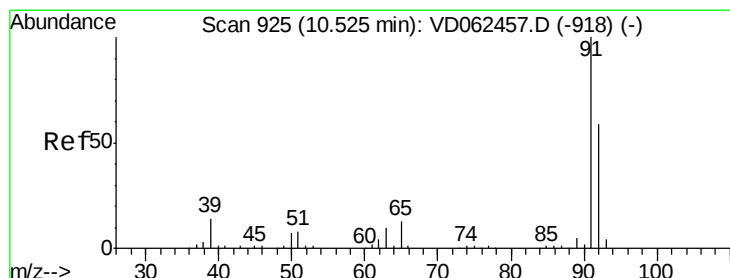
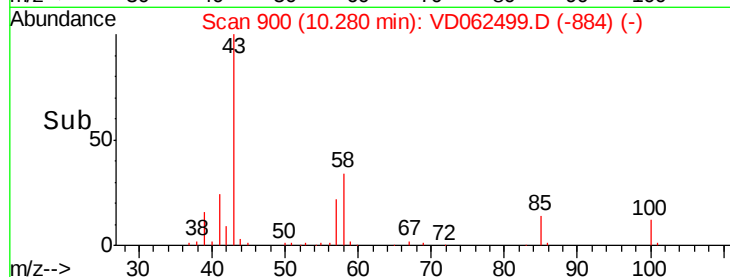
150000

100000

50000

0

Time-->



#52

Toluene

Concen: 21.802 ug/l

RT: 10.49 min Scan# 921

Delta R.T. -0.04 min

Lab File: VD062499.D

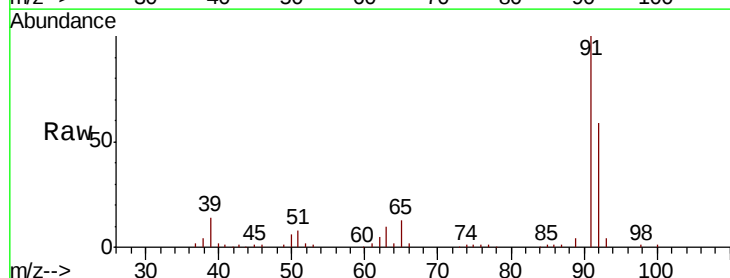
Acq: 22 May 2019 13:13

Tgt Ion: 92 Resp: 253600

Ion Ratio Lower Upper

92 100

91 170.4 136.6 204.8



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC

10.49

200000

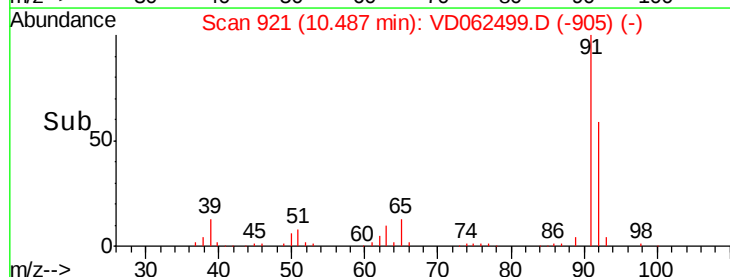
150000

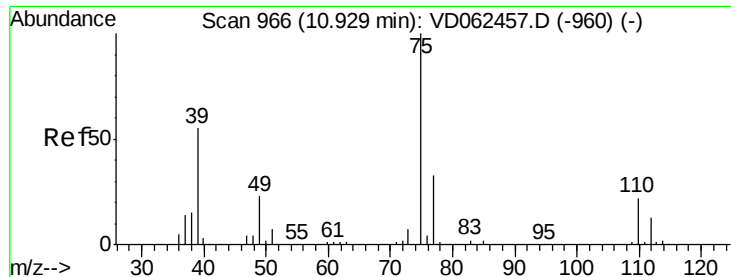
100000

50000

0

Time-->

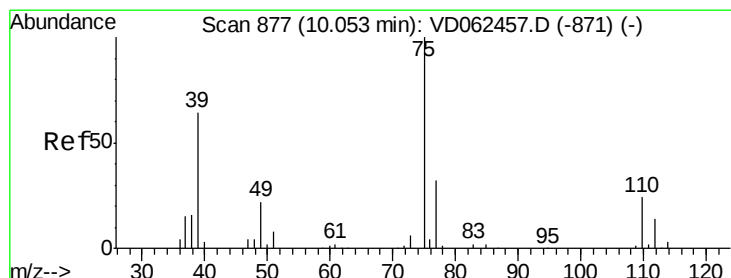
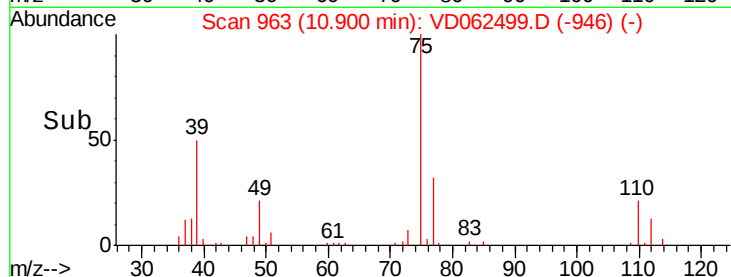
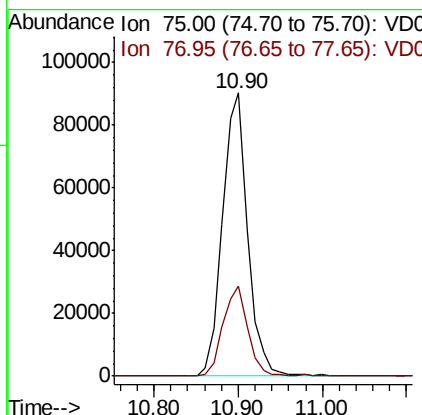
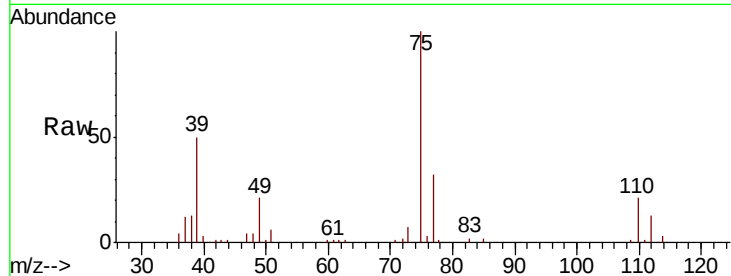




#53
 t-1,3-Dichloropropene
 Concen: 23.422 ug/l
 RT: 10.90 min Scan# 963
 Delta R.T. -0.03 min
 Lab File: VD062499.D
 Acq: 22 May 2019 13:13

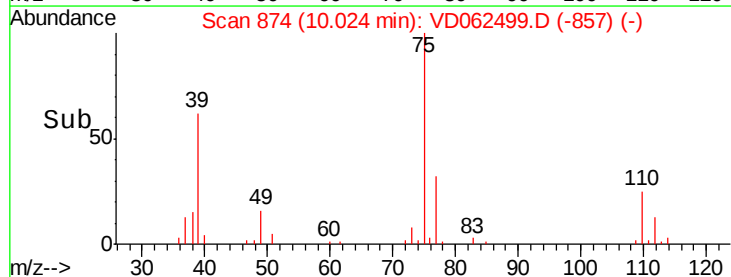
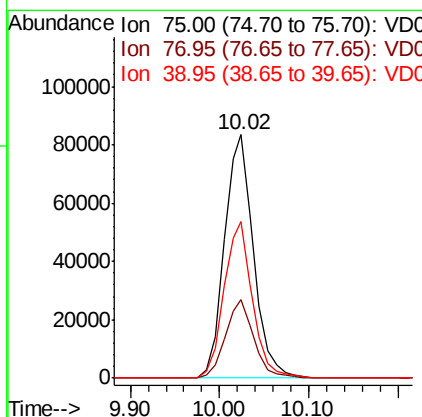
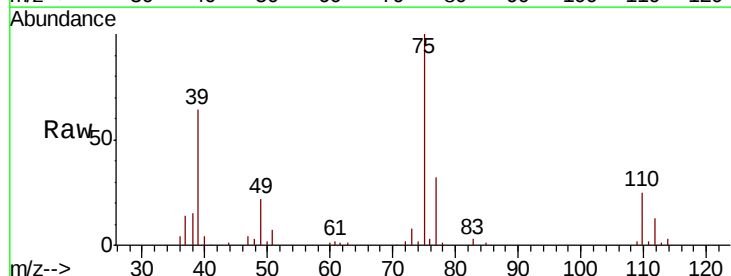
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0522SBS01

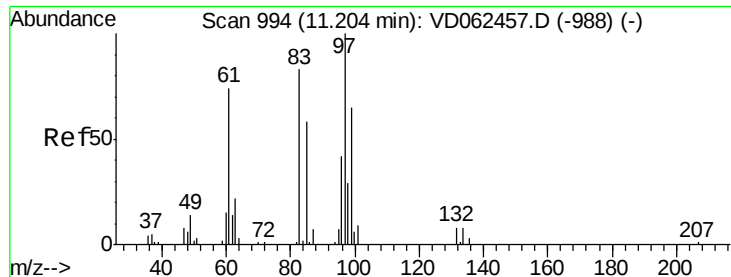
Tot Ion: 75 Resp: 186188
 Ion Ratio Lower Upper
 75 100
 77 31.9 25.8 38.8



#54
 cis-1,3-Dichloropropene
 Concen: 22.999 ug/l
 RT: 10.02 min Scan# 874
 Delta R.T. -0.03 min
 Lab File: VD062499.D
 Acq: 22 May 2019 13:13

Tgt Ion: 75 Resp: 190769
 Ion Ratio Lower Upper
 75 100
 77 32.3 25.5 38.3
 39 64.2 39.4 59.2#

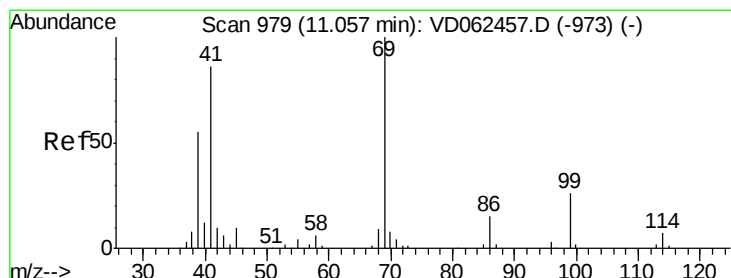
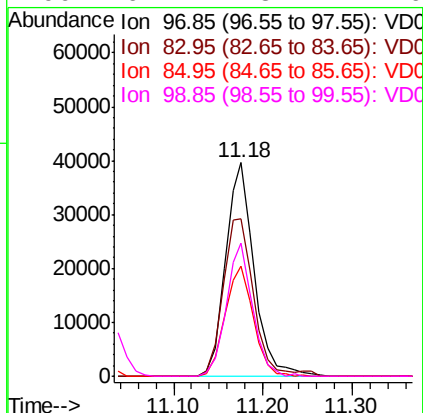
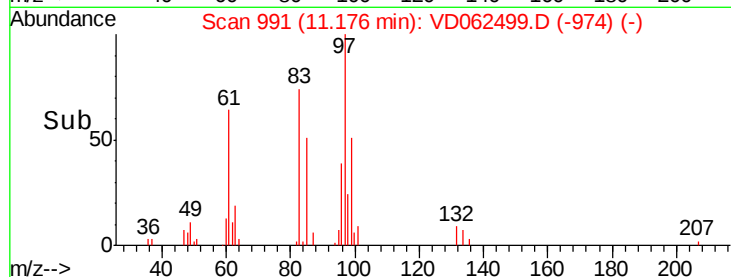
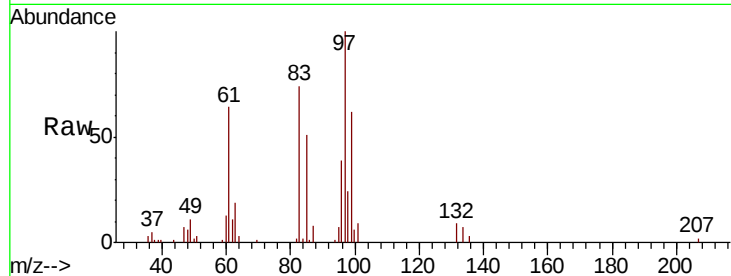




#55
 1,1,2-Trichloroethane
 Concen: 22.521 ug/l
 RT: 11.18 min Scan# 991
 Delta R.T. -0.03 min
 Lab File: VD062499.D
 Acq: 22 May 2019 13:13

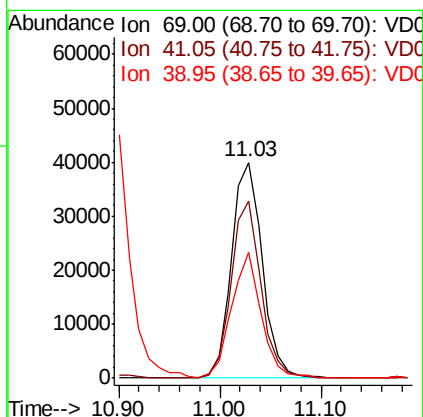
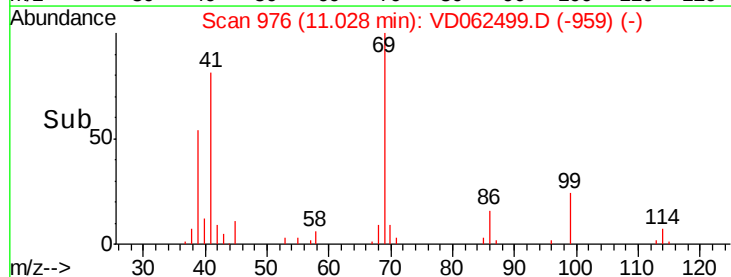
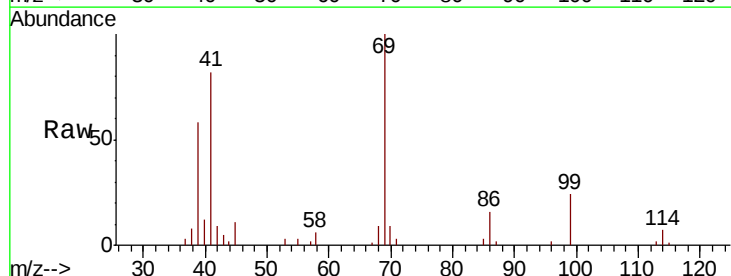
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0522SBS01

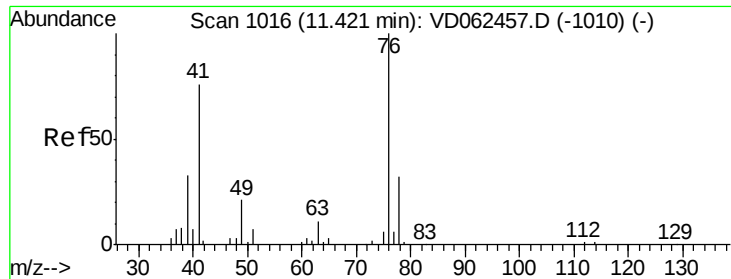
Tot Ion:	97	Resp:	88783
Ion	Ratio	Lower	Upper
97	100		
83	73.6	65.7	98.5
85	52.6	45.6	68.4
99	62.4	48.4	72.6



#56
 Ethyl methacrylate
 Concen: 19.972 ug/l
 RT: 11.03 min Scan# 976
 Delta R.T. -0.03 min
 Lab File: VD062499.D
 Acq: 22 May 2019 13:13

Tgt Ion:	69	Resp:	84171
Ion	Ratio	Lower	Upper
69	100		
41	81.8	56.3	84.5
39	58.4	29.4	44.2#





#57

1,3-Dichloropropane

Concen: 22.913 ug/l

RT: 11.39 min Scan# 1013

Delta R.T. -0.03 min

Lab File: VD062499.D

Acq: 22 May 2019 13:13

Instrument :

MSVOA_D

ClientSampleId :

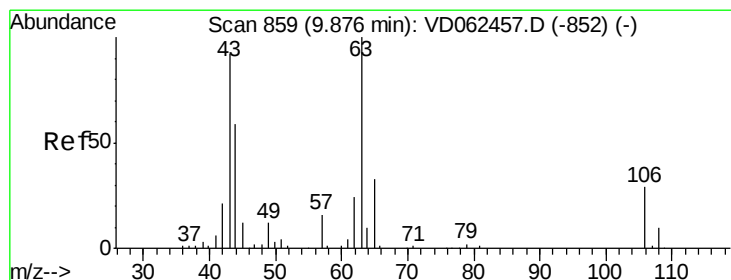
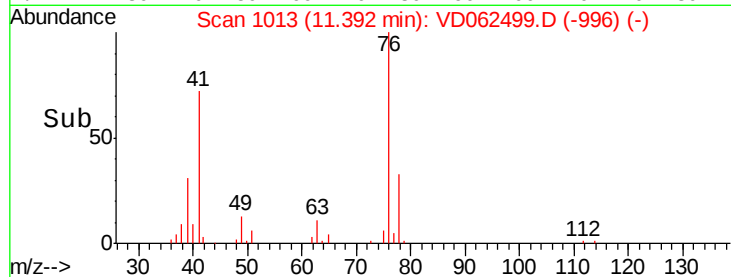
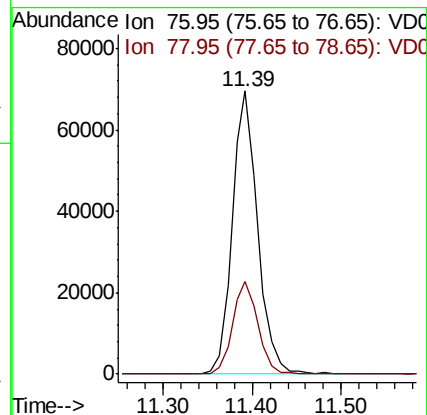
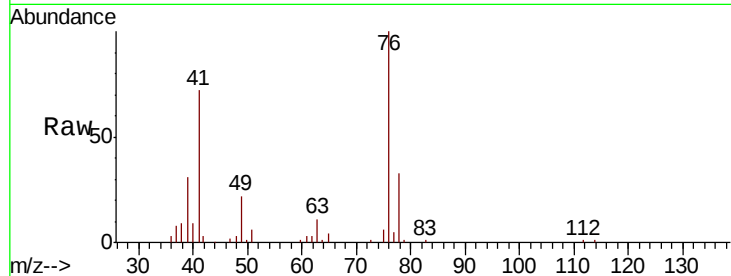
VD0522SBS01

Tot Ion: 76 Resp: 138527

Ion Ratio Lower Upper

76 100

78 32.7 26.2 39.2



#58

2-Chloroethyl Vinyl ether

Concen: 101.969 ug/l

RT: 9.84 min Scan# 855

Delta R.T. -0.04 min

Lab File: VD062499.D

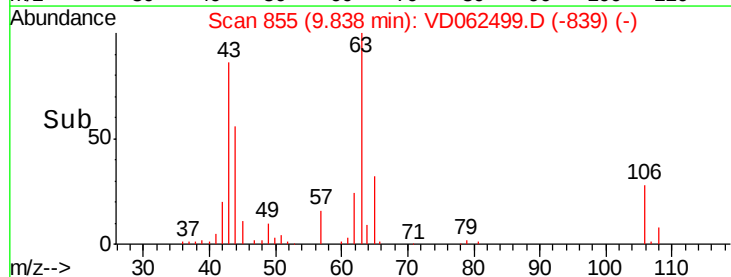
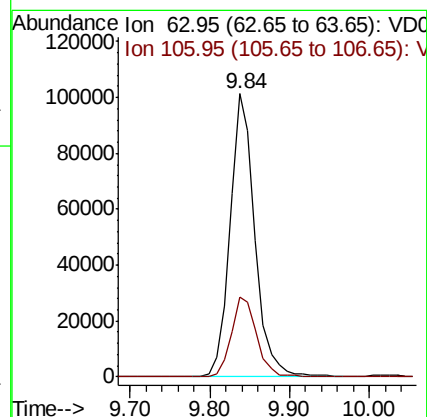
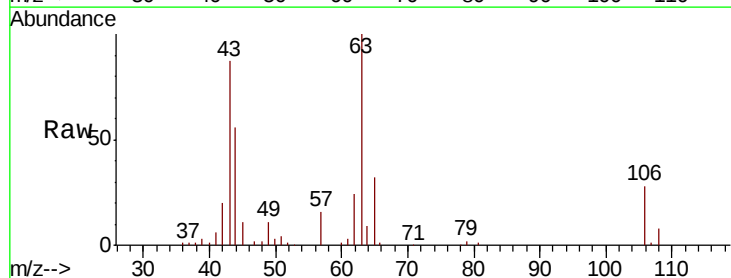
Acq: 22 May 2019 13:13

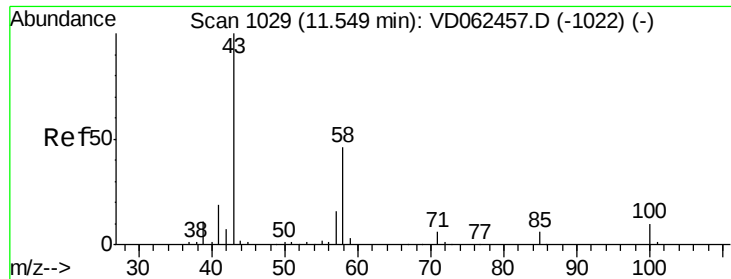
Tgt Ion: 63 Resp: 220665

Ion Ratio Lower Upper

63 100

106 28.3 22.6 34.0

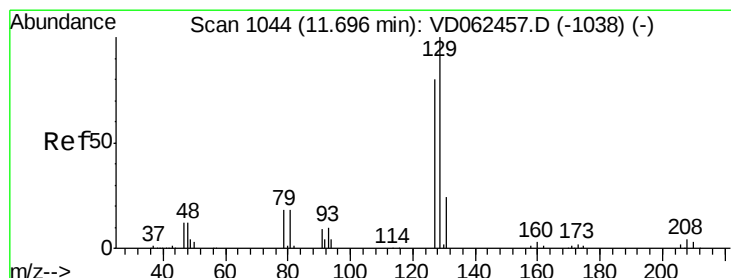
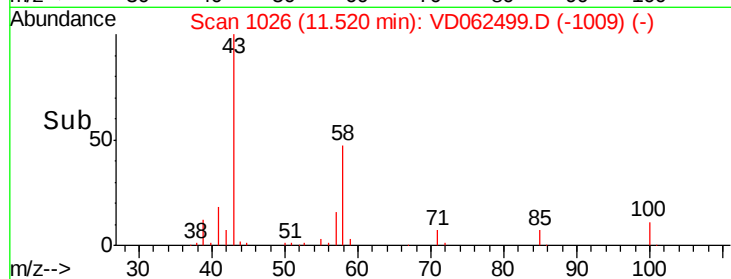
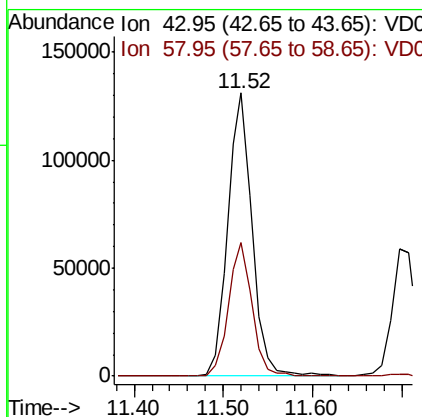
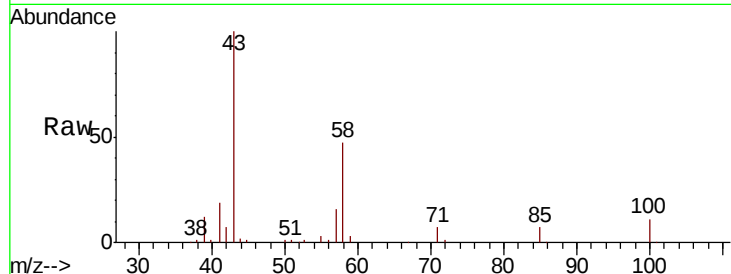




#59
2-Hexanone
Concen: 117.590 ug/l
RT: 11.52 min Scan# 1026
Delta R.T. -0.03 min
Lab File: VD062499.D
Acq: 22 May 2019 13:13

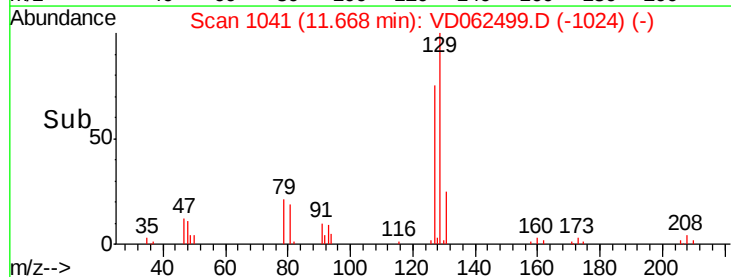
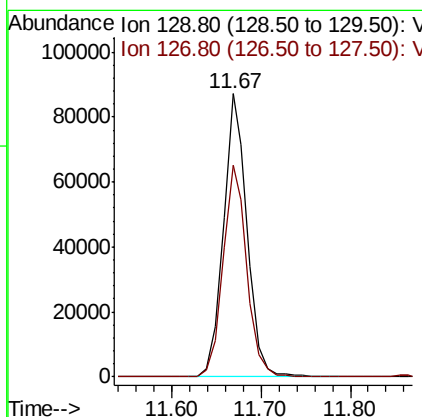
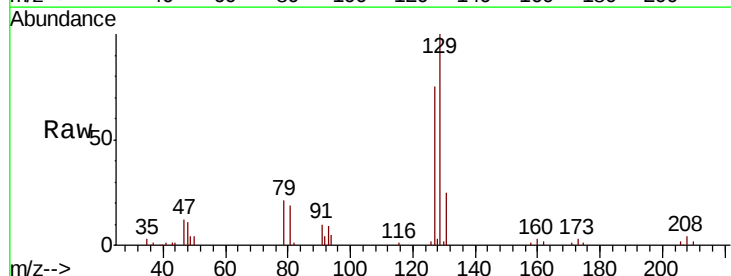
Instrument :
MSVOA_D
ClientSampleId :
VD0522SBS01

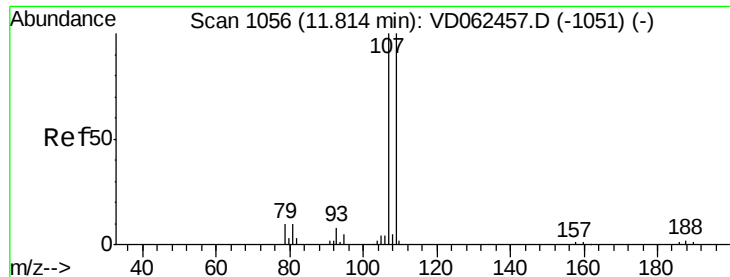
Tot Ion: 43 Resp: 252041
Ion Ratio Lower Upper
43 100
58 47.1 25.4 76.4



#60
Dibromochloromethane
Concen: 21.404 ug/l
RT: 11.67 min Scan# 1041
Delta R.T. -0.03 min
Lab File: VD062499.D
Acq: 22 May 2019 13:13

Tgt Ion: 129 Resp: 162069
Ion Ratio Lower Upper
129 100
127 74.8 38.0 113.9





#61

1,2-Dibromoethane

Concen: 21.817 ug/l

RT: 11.79 min Scan# 1053

Delta R.T. -0.03 min

Lab File: VD062499.D

Acq: 22 May 2019 13:13

Instrument :

MSVOA_D

ClientSampleId :

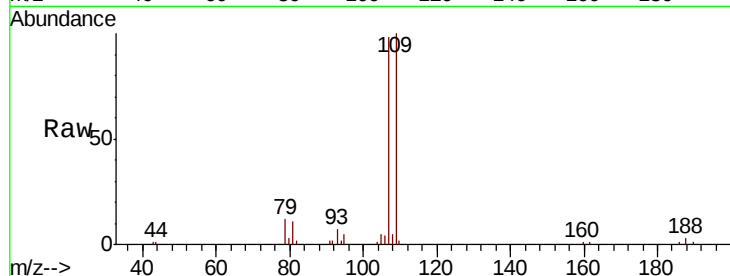
VD0522SBS01

Tot Ion:107 Resp: 105992

Ion Ratio Lower Upper

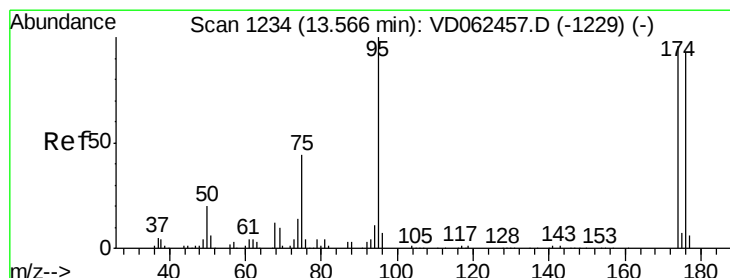
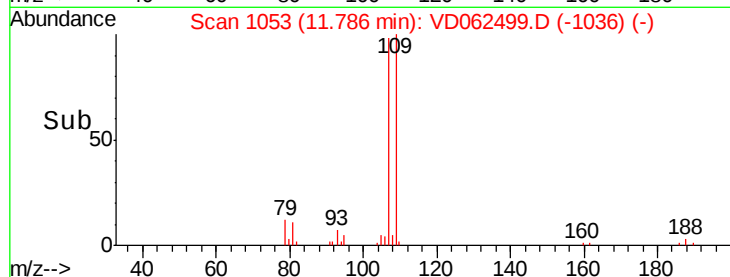
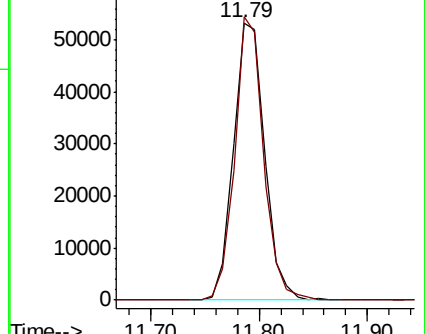
107 100

109 102.0 78.3 117.5



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.90 (108.60 to 109.60): V



#62

4-Bromofluorobenzene

Concen: 56.788 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. -0.02 min

Lab File: VD062499.D

Acq: 22 May 2019 13:13

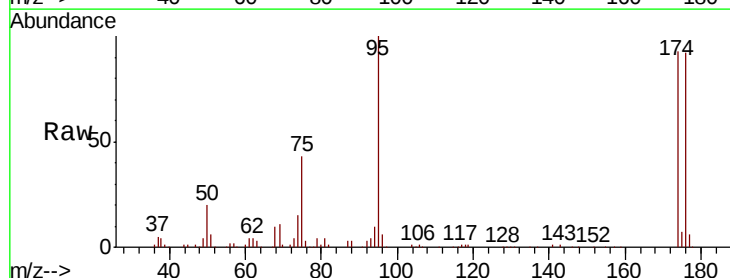
Tgt Ion: 95 Resp: 444330

Ion Ratio Lower Upper

95 100

174 93.0 0.0 181.8

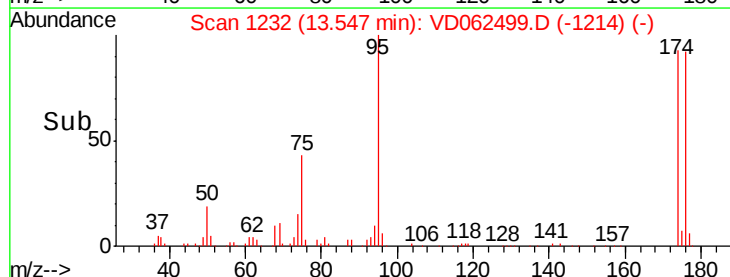
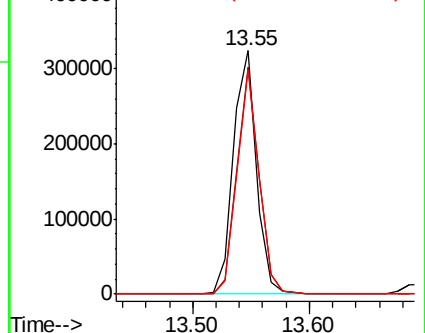
176 92.3 0.0 174.4

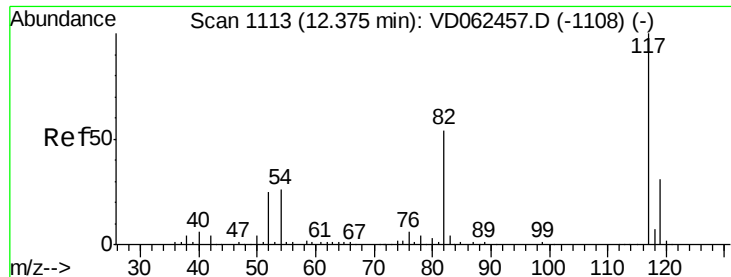


Abundance Ion 95.00 (94.70 to 95.70): V

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V

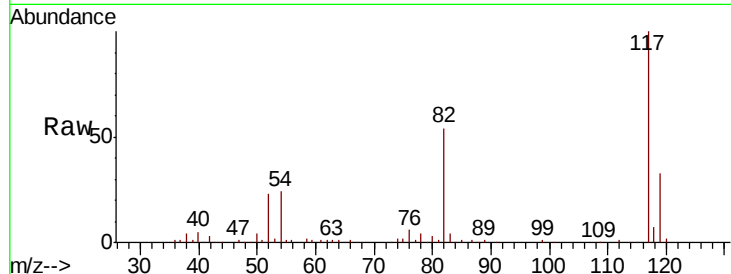




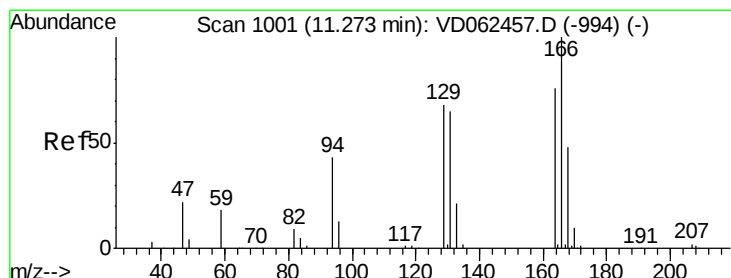
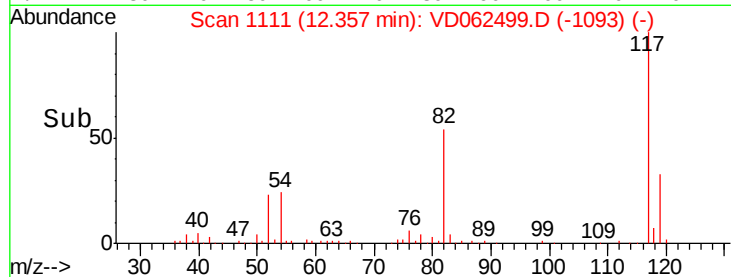
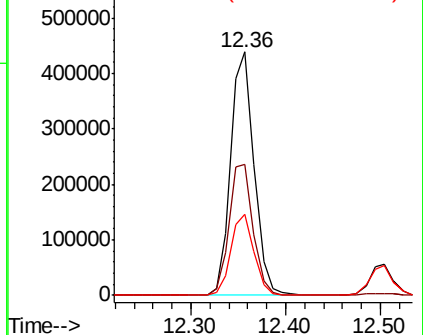
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.36 min Scan# 1111
Delta R.T. -0.02 min
Lab File: VD062499.D
Acq: 22 May 2019 13:13

Instrument :
MSVOA_D
ClientSampleId :
VD0522SBS01

Tot Ion:117 Resp: 753796
Ion Ratio Lower Upper
117 100
82 53.8 36.2 54.2
119 33.5 26.2 39.4

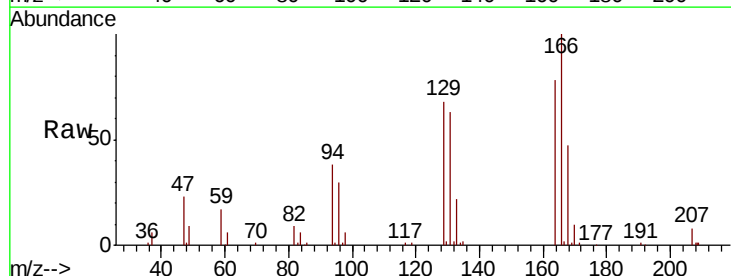


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

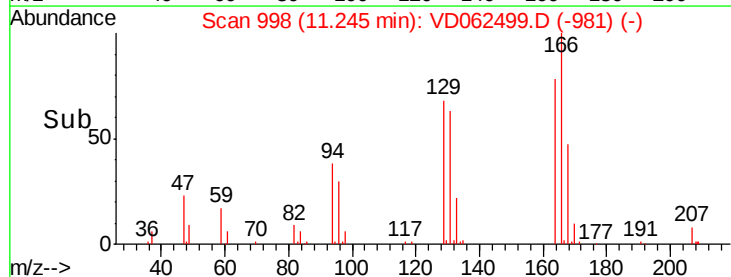
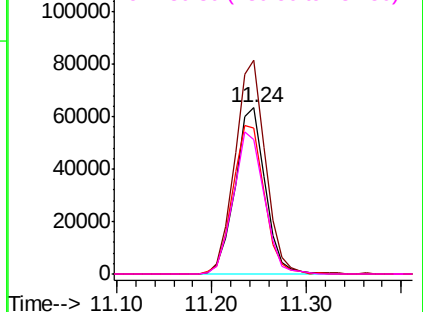


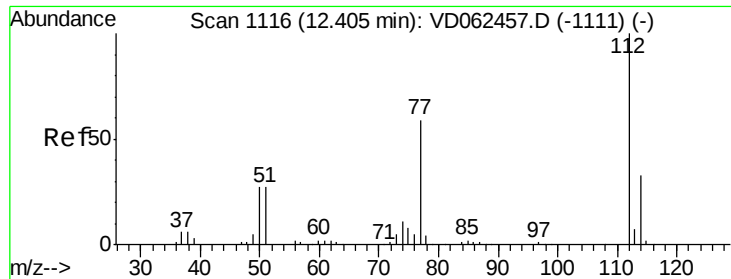
#64
Tetrachloroethene
Concen: 22.030 ug/l
RT: 11.24 min Scan# 998
Delta R.T. -0.03 min
Lab File: VD062499.D
Acq: 22 May 2019 13:13

Tgt Ion:164 Resp: 139043
Ion Ratio Lower Upper
164 100
166 128.6 101.5 152.3
129 87.7 74.6 112.0
131 81.0 72.6 108.8



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

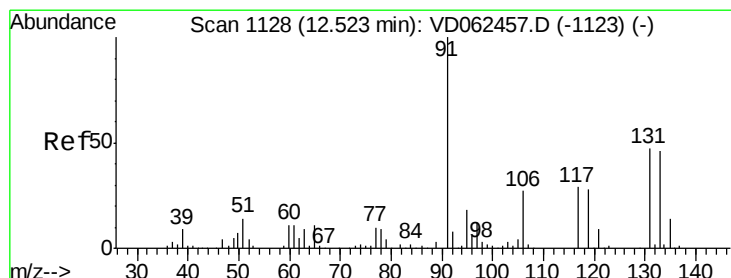
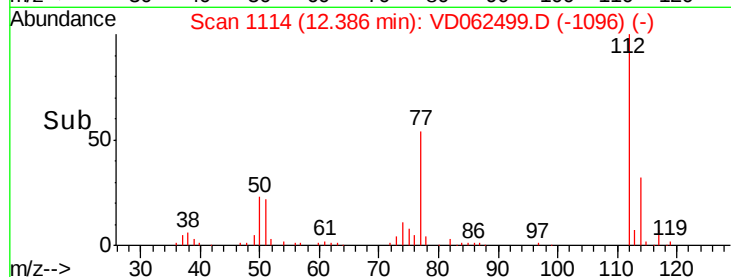
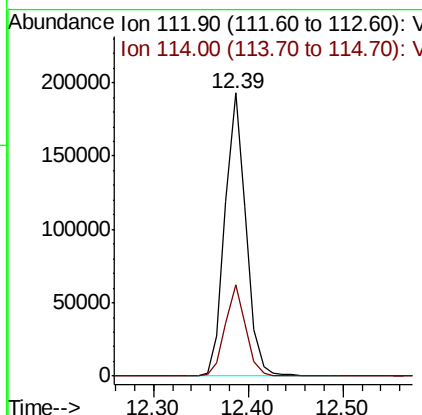
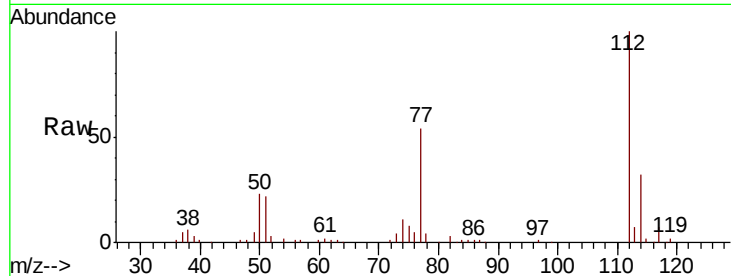




#65
Chlorobenzene
Concen: 20.364 ug/l
RT: 12.39 min Scan# 1114
Delta R.T. -0.02 min
Lab File: VD062499.D
Acq: 22 May 2019 13:13

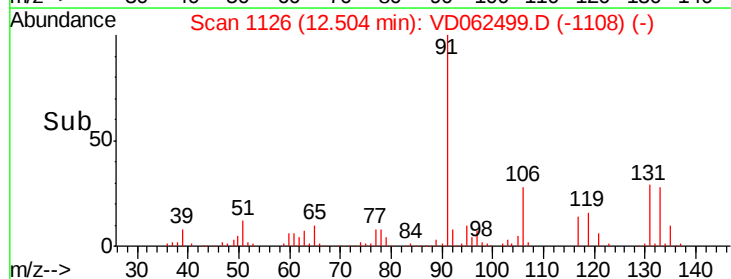
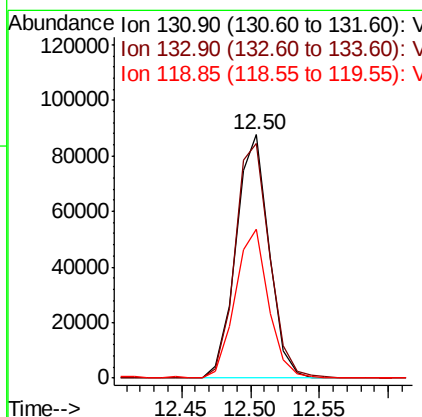
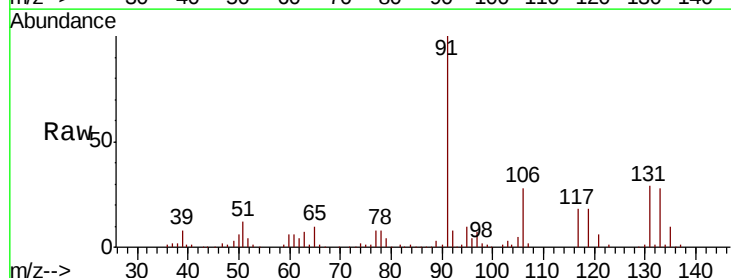
Instrument :
MSVOA_D
ClientSampleId :
VD0522SBS01

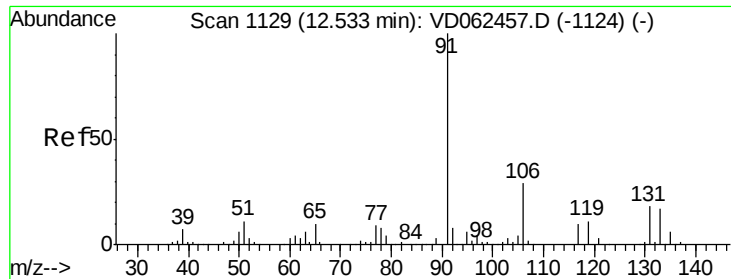
Tot Ion:112 Resp: 295190
Ion Ratio Lower Upper
112 100
114 32.3 25.8 38.8



#66
1,1,1,2-Tetrachloroethane
Concen: 21.842 ug/l
RT: 12.50 min Scan# 1126
Delta R.T. -0.02 min
Lab File: VD062499.D
Acq: 22 May 2019 13:13

Tgt Ion:131 Resp: 146153
Ion Ratio Lower Upper
131 100
133 96.6 48.6 145.8
119 60.9 34.7 104.1

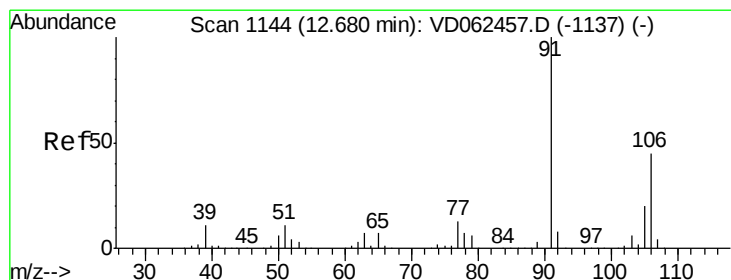
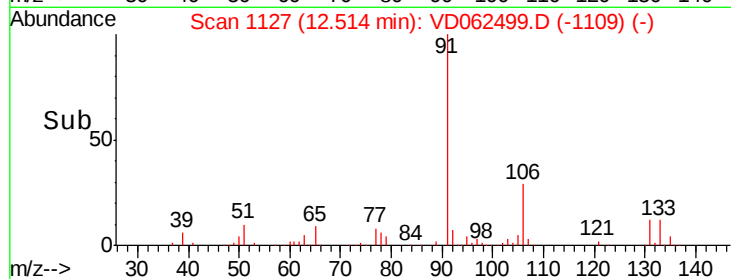
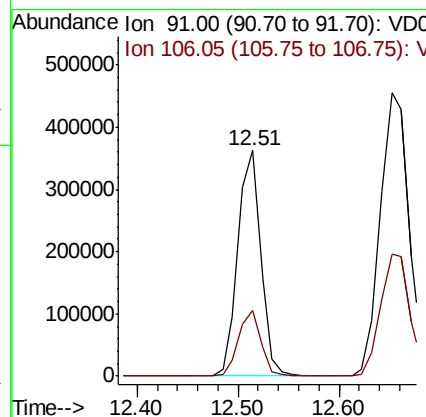
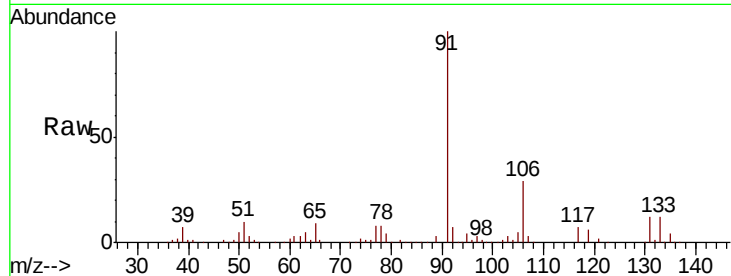




#67
Ethyl Benzene
Concen: 23.004 ug/l
RT: 12.51 min Scan# 1127
Delta R.T. -0.02 min
Lab File: VD062499.D
Acq: 22 May 2019 13:13

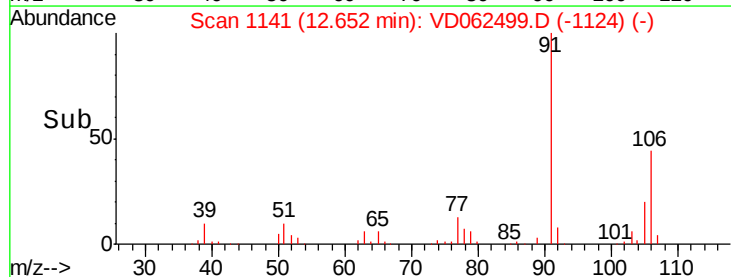
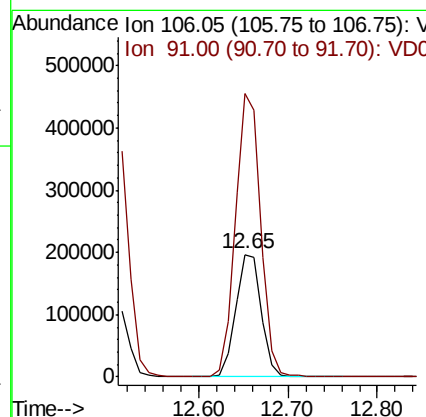
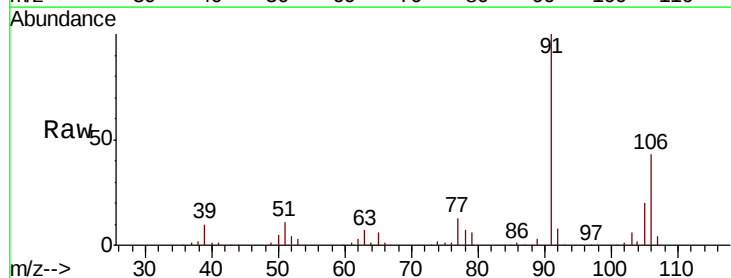
Instrument :
MSVOA_D
ClientSampleId :
VD0522SBS01

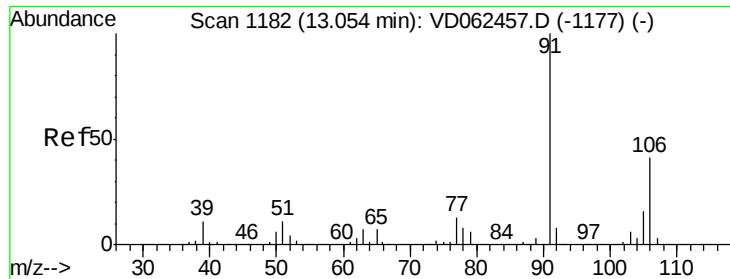
Tot Ion: 91 Resp: 574362
Ion Ratio Lower Upper
91 100
106 29.3 24.7 37.1



#68
m/p-Xylenes
Concen: 44.187 ug/l
RT: 12.65 min Scan# 1141
Delta R.T. -0.03 min
Lab File: VD062499.D
Acq: 22 May 2019 13:13

Tgt Ion: 106 Resp: 396027
Ion Ratio Lower Upper
106 100
91 231.5 164.0 246.0

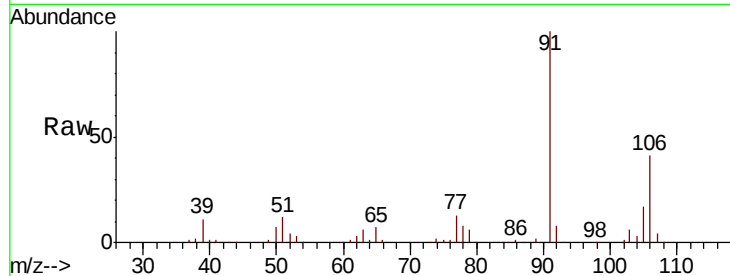




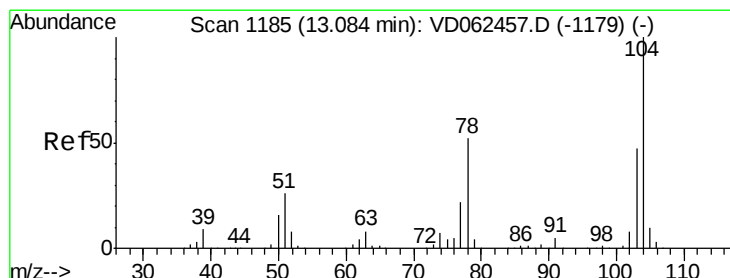
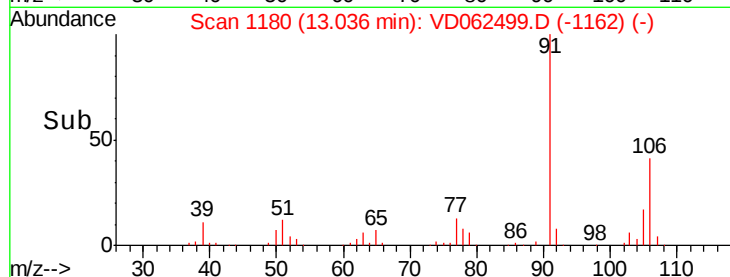
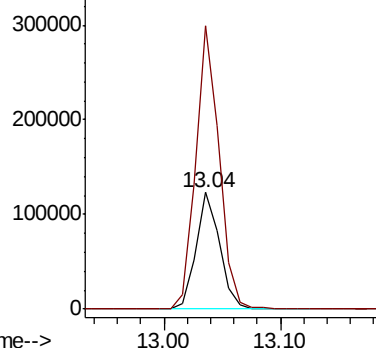
#69
o-Xylene
Concen: 20.414 ug/l
RT: 13.04 min Scan# 1180
Delta R.T. -0.02 min
Lab File: VD062499.D
Acq: 22 May 2019 13:13

Instrument :
MSVOA_D
ClientSampleId :
VD0522SBS01

Tot Ion:106 Resp: 172630
Ion Ratio Lower Upper
106 100
91 243.1 106.7 319.9

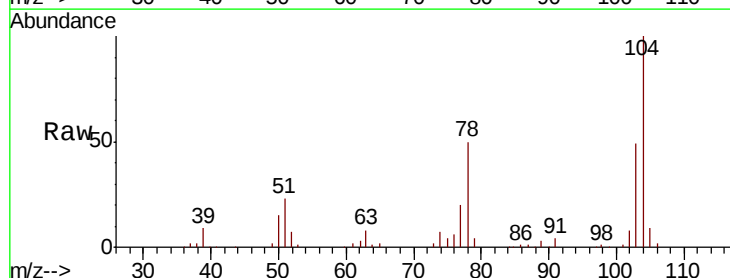


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): V

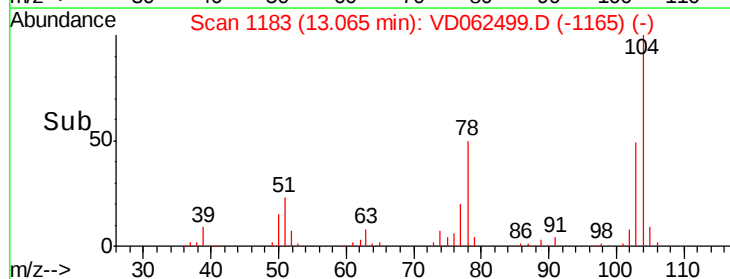
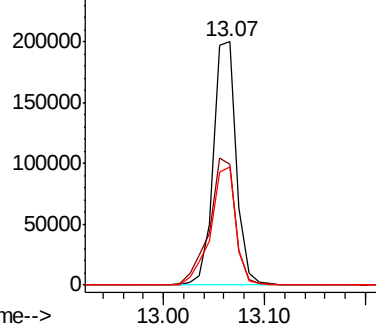


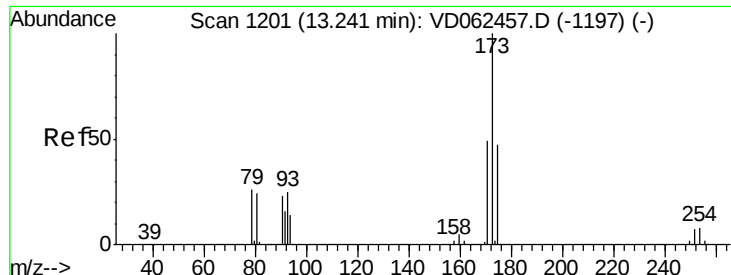
#70
Styrene
Concen: 21.994 ug/l
RT: 13.07 min Scan# 1183
Delta R.T. -0.02 min
Lab File: VD062499.D
Acq: 22 May 2019 13:13

Tgt Ion:104 Resp: 316406
Ion Ratio Lower Upper
104 100
78 49.8 35.4 53.2
103 48.7 37.5 56.3



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

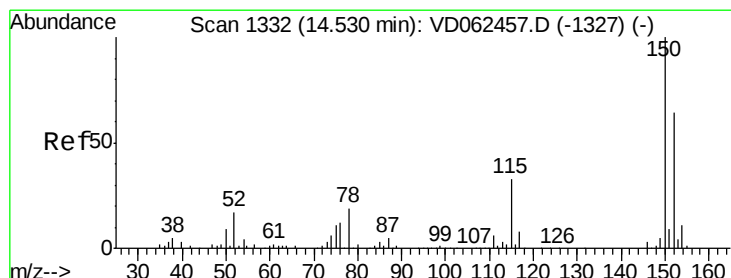
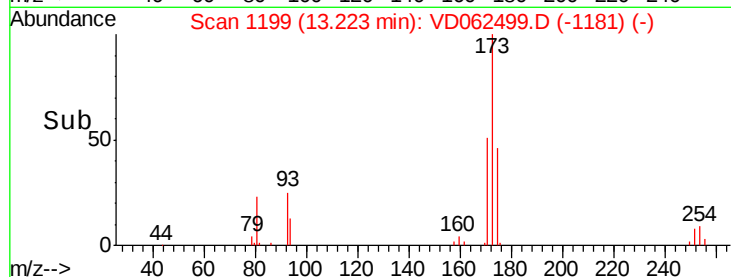
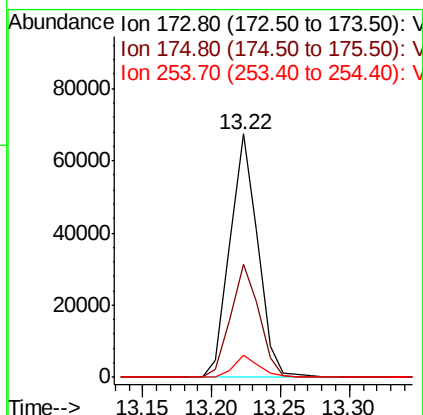
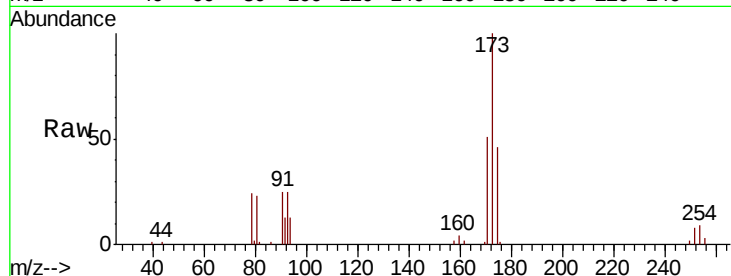




#71
Bromoform
Concen: 21.393 ug/l
RT: 13.22 min Scan# 1199
Delta R.T. -0.02 min
Lab File: VD062499.D
Acq: 22 May 2019 13:13

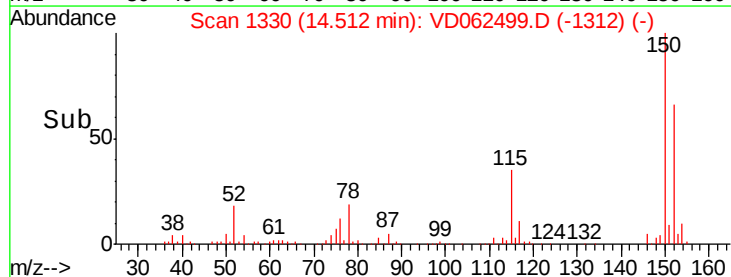
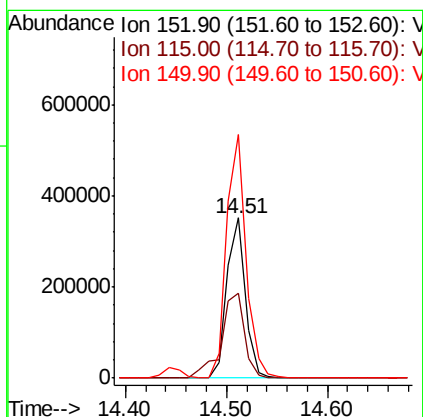
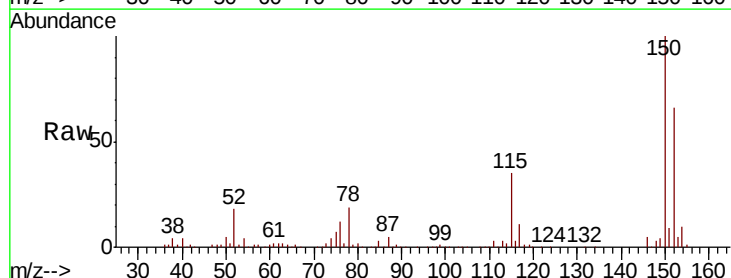
Instrument :
MSVOA_D
ClientSampleId :
VD0522SBS01

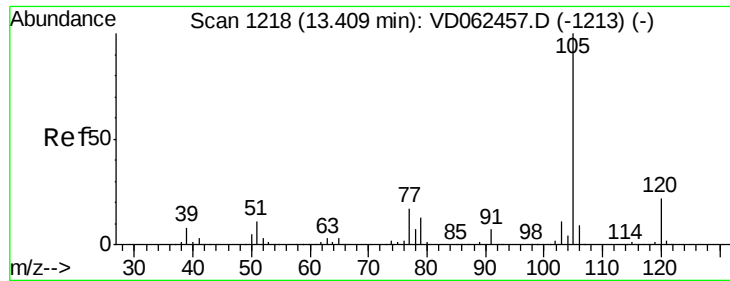
Tot Ion:173 Resp: 95068
Ion Ratio Lower Upper
173 100
175 46.4 24.4 73.4
254 9.0 5.4 8.2#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.51 min Scan# 1330
Delta R.T. -0.02 min
Lab File: VD062499.D
Acq: 22 May 2019 13:13

Tgt Ion:152 Resp: 448454
Ion Ratio Lower Upper
152 100
115 53.1 30.9 92.7
150 152.2 0.0 314.8





#73

Isopropylbenzene

Concen: 19.641 ug/l

RT: 13.39 min Scan# 1216

Delta R.T. -0.02 min

Lab File: VD062499.D

Acq: 22 May 2019 13:13

Instrument :

MSVOA_D

ClientSampleId :

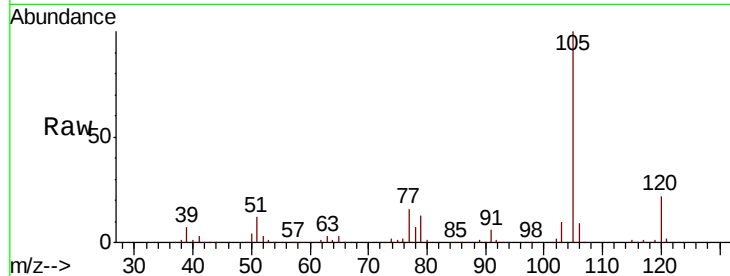
VD0522SBS01

Tot Ion:105 Resp: 555198

Ion Ratio Lower Upper

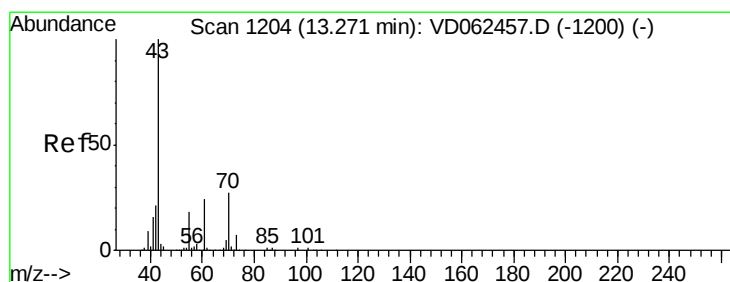
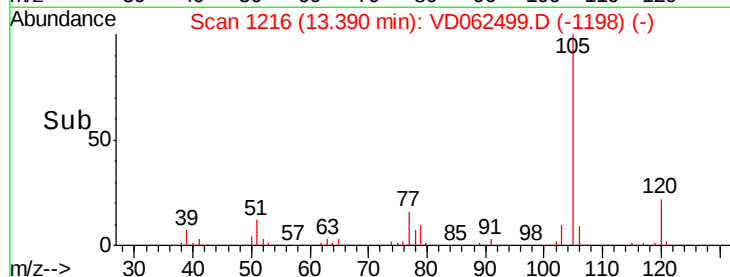
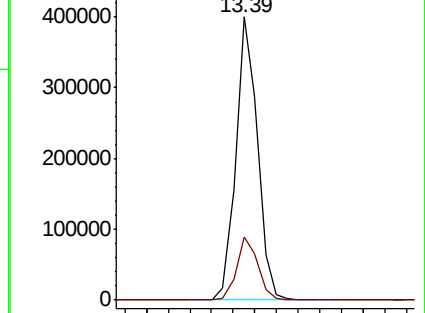
105 100

120 22.3 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-ethyl acetate

Concen: 19.328 ug/l

RT: 13.25 min Scan# 1202

Delta R.T. -0.02 min

Lab File: VD062499.D

Acq: 22 May 2019 13:13

Tgt Ion: 43 Resp: 134940

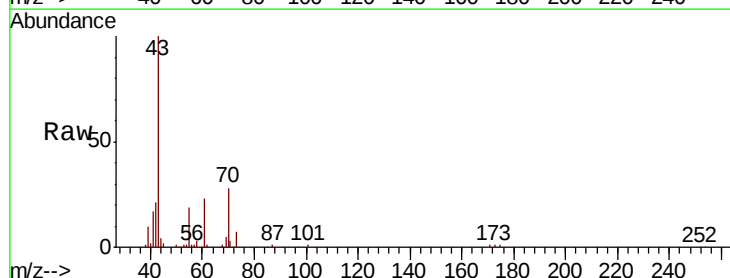
Ion Ratio Lower Upper

43 100

70 27.7 24.2 36.4

55 18.5 16.0 24.0

61 22.7 21.6 32.4

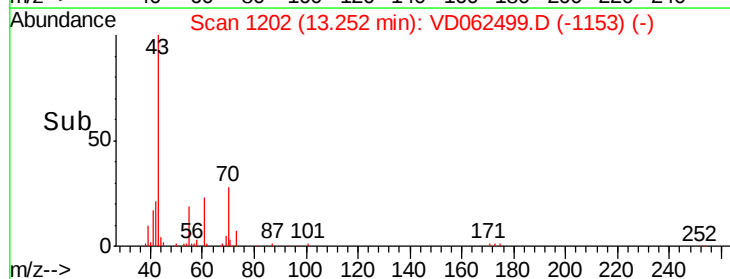
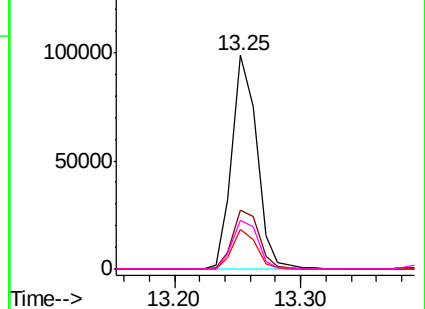


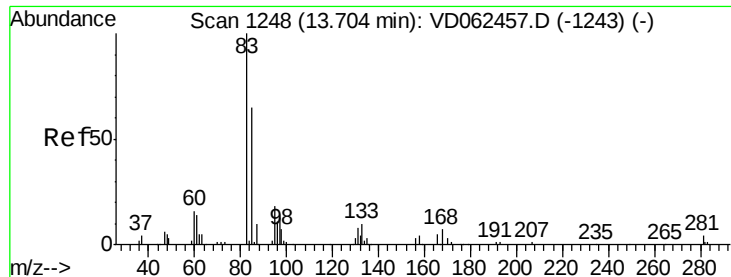
Abundance Ion 42.95 (42.65 to 43.65): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 60.95 (60.65 to 61.65): V





#75

1,1,2,2-Tetrachloroethane

Concen: 19.445 ug/l

RT: 13.69 min Scan# 1246

Delta R.T. -0.02 min

Lab File: VD062499.D

Acq: 22 May 2019 13:13

Instrument :

MSVOA_D

ClientSampleId :

VD0522SBS01

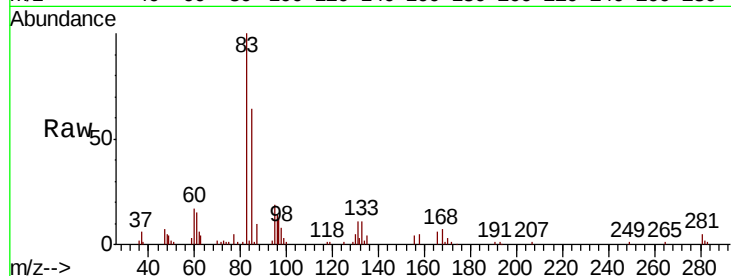
Tot Ion: 83 Resp: 99162

Ion Ratio Lower Upper

83 100

131 11.1 5.0 14.9

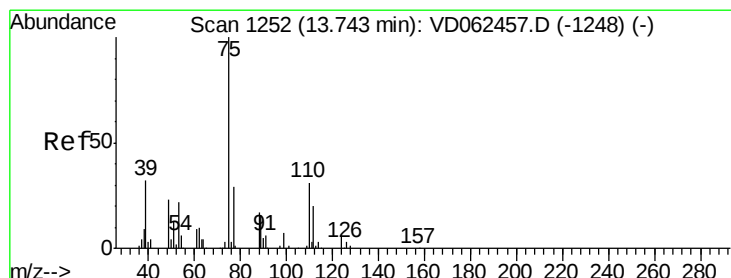
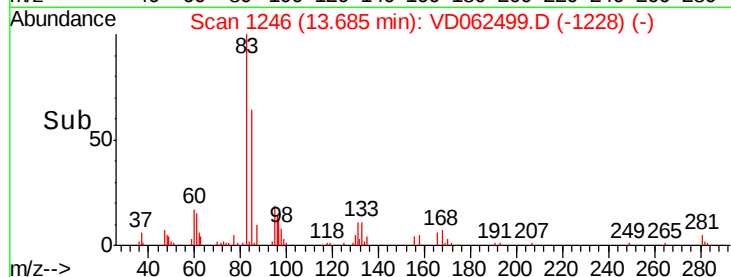
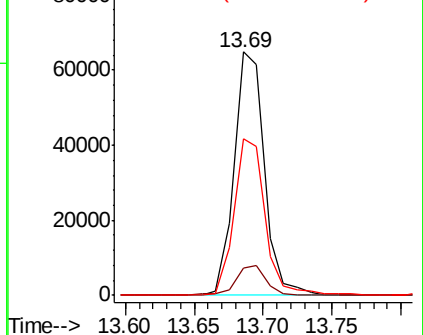
85 64.1 32.6 97.7



Abundance Ion 82.95 (82.65 to 83.65): VDC

Ion 130.90 (130.60 to 131.60): VDC

Ion 84.95 (84.65 to 85.65): VDC



#76

1,2,3-Trichloropropane

Concen: 19.901 ug/l

RT: 13.72 min Scan# 1250

Delta R.T. -0.02 min

Lab File: VD062499.D

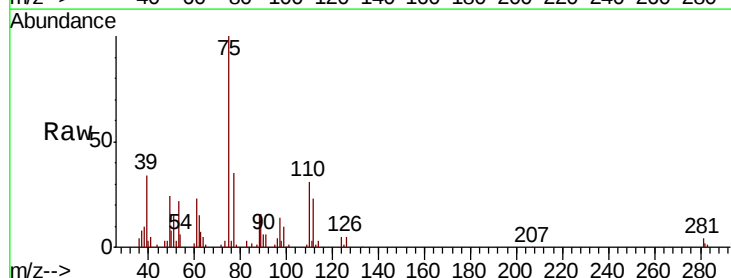
Acq: 22 May 2019 13:13

Tgt Ion: 75 Resp: 105124

Ion Ratio Lower Upper

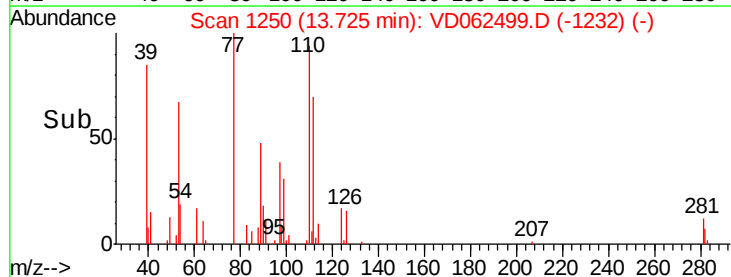
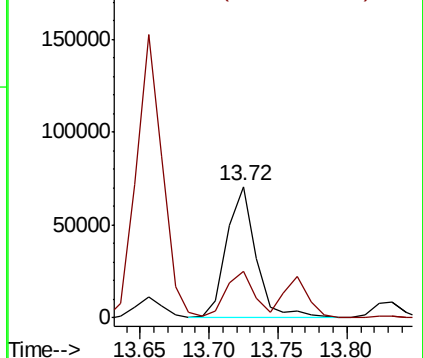
75 100

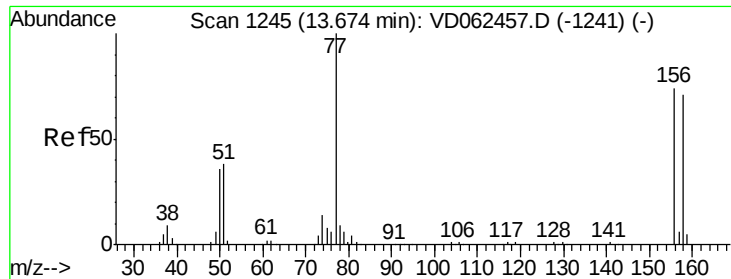
77 35.2 16.4 49.4



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC





#77

Bromobenzene

Concen: 20.449 ug/l

RT: 13.66 min Scan# 1243

Delta R.T. -0.02 min

Lab File: VD062499.D

Acq: 22 May 2019 13:13

Instrument :

MSVOA_D

ClientSampleId :

VD0522SBS01

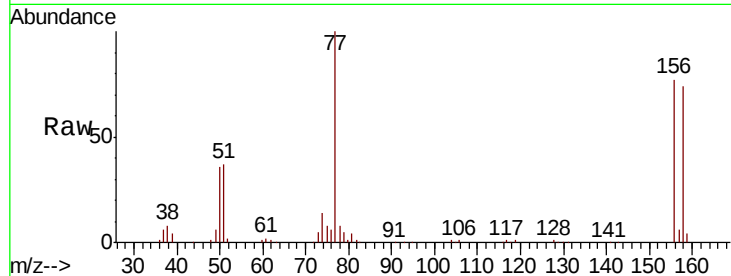
Tot Ion:156 Resp: 163980

Ion Ratio Lower Upper

156 100

77 130.2 53.1 159.4

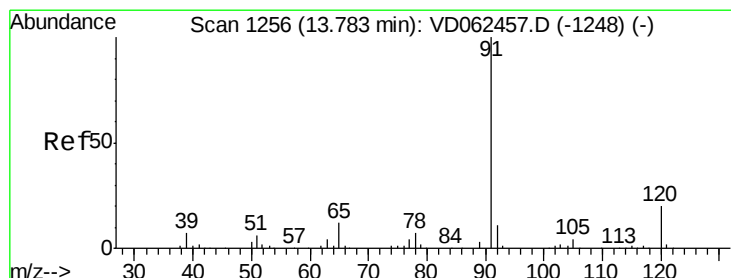
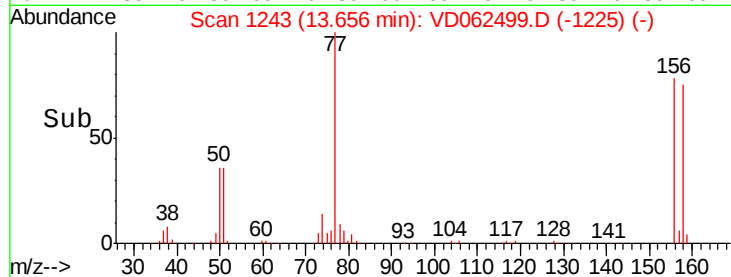
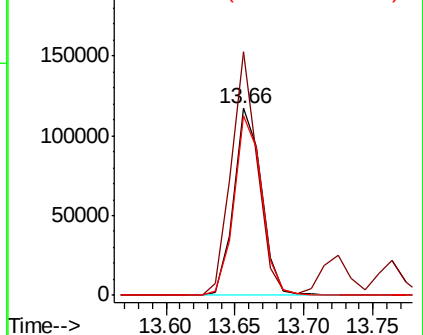
158 96.3 49.4 148.0



Abundance Ion 155.90 (155.60 to 156.60): V

Ion 76.95 (76.65 to 77.65): V

Ion 157.85 (157.55 to 158.55): V



#78

n-propylbenzene

Concen: 20.684 ug/l

RT: 13.76 min Scan# 1254

Delta R.T. -0.02 min

Lab File: VD062499.D

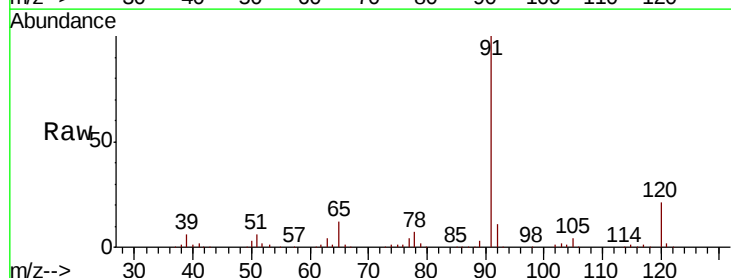
Acq: 22 May 2019 13:13

Tgt Ion: 91 Resp: 677255

Ion Ratio Lower Upper

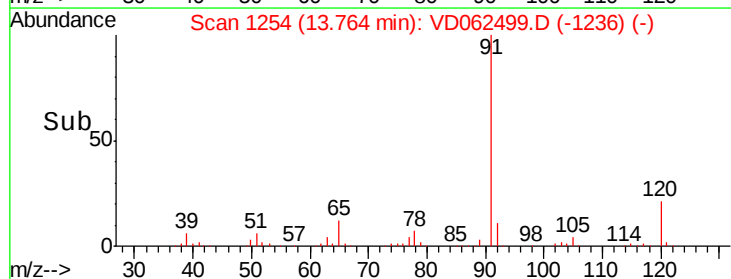
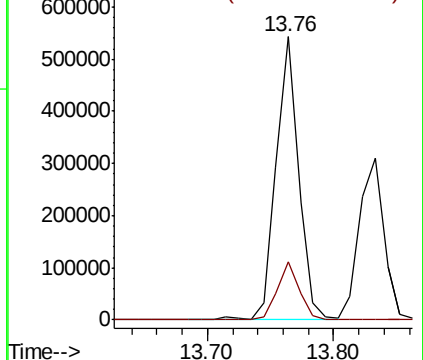
91 100

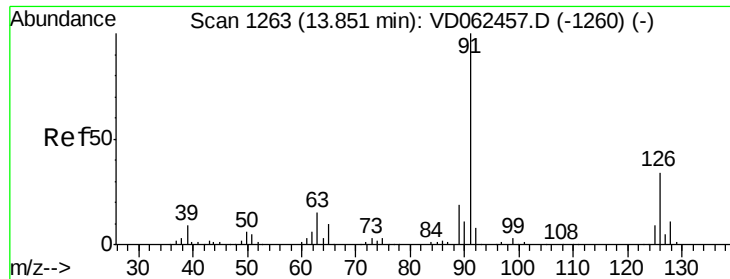
120 20.7 11.1 33.1



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.05 (119.75 to 120.75): V

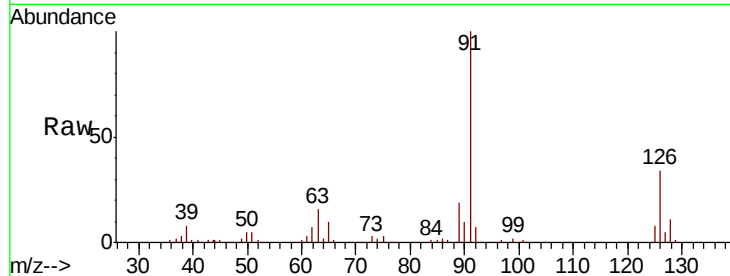




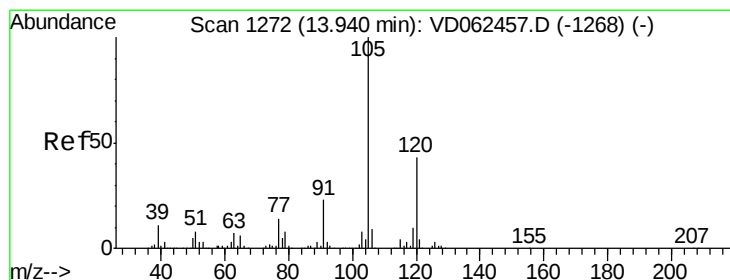
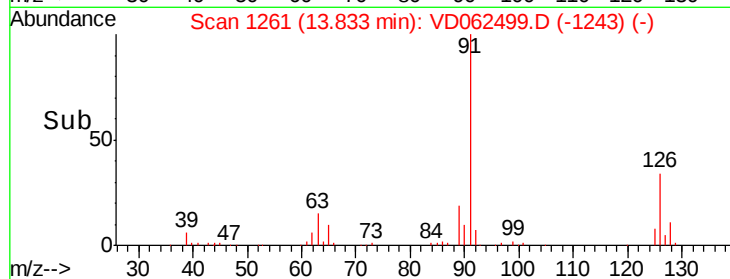
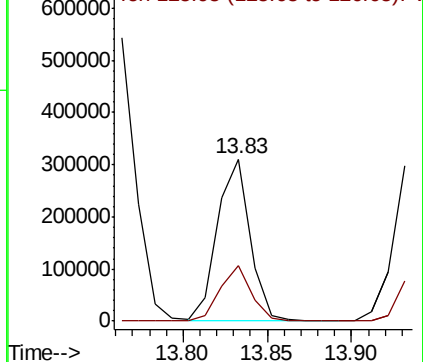
#79
 2-Chlorotoluene
 Concen: 21.117 ug/l
 RT: 13.83 min Scan# 1261
 Delta R.T. -0.02 min
 Lab File: VD062499.D
 Acq: 22 May 2019 13:13

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0522SBS01

Tot Ion: 91 Resp: 419602
 Ion Ratio Lower Upper
 91 100
 126 34.2 18.6 55.8

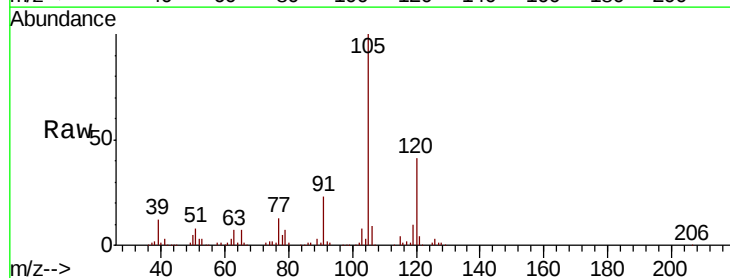


Abundance Ion 91.00 (90.70 to 91.70): VD062457.D (-1260) (-)
 Ion 125.95 (125.65 to 126.65): VD062457.D (-1260) (-)

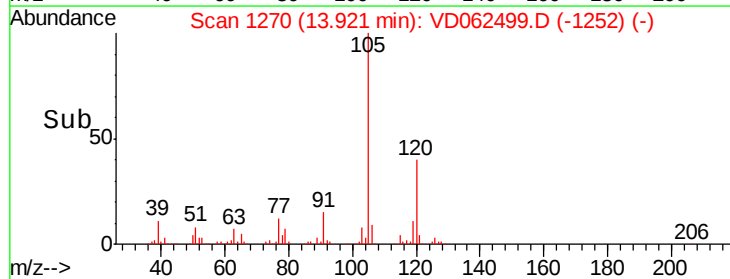
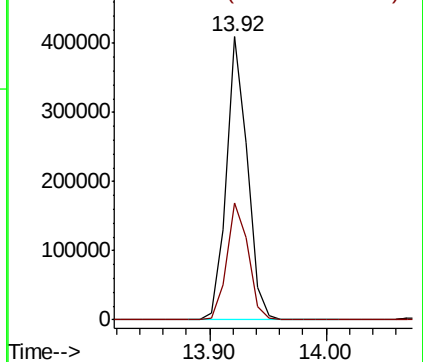


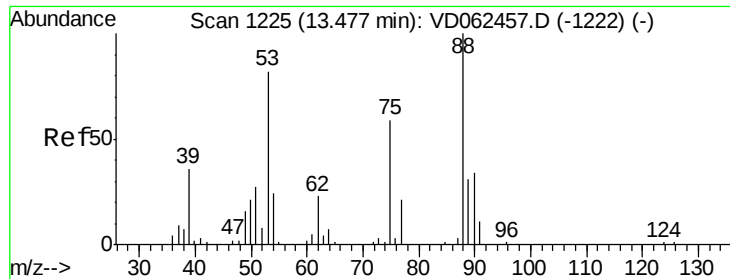
#80
 1,3,5-Trimethylbenzene
 Concen: 20.751 ug/l
 RT: 13.92 min Scan# 1270
 Delta R.T. -0.02 min
 Lab File: VD062499.D
 Acq: 22 May 2019 13:13

Tgt Ion: 105 Resp: 507897
 Ion Ratio Lower Upper
 105 100
 120 41.4 24.0 72.0



Abundance Ion 105.05 (104.75 to 105.75): VD062457.D (-1268) (-)
 Ion 120.05 (119.75 to 120.75): VD062457.D (-1268) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 19.595 ug/l

RT: 13.46 min Scan# 1223

Delta R.T. -0.02 min

Lab File: VD062499.D

Acq: 22 May 2019 13:13

Instrument :

MSVOA_D

ClientSampleId :

VD0522SBS01

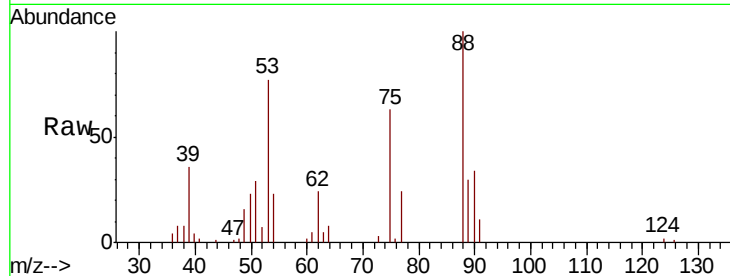
Tot Ion: 75 Resp: 29191

Ion Ratio Lower Upper

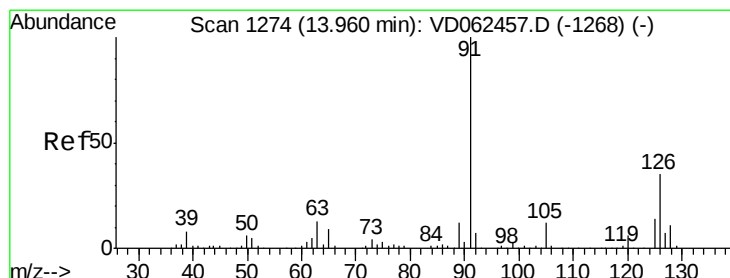
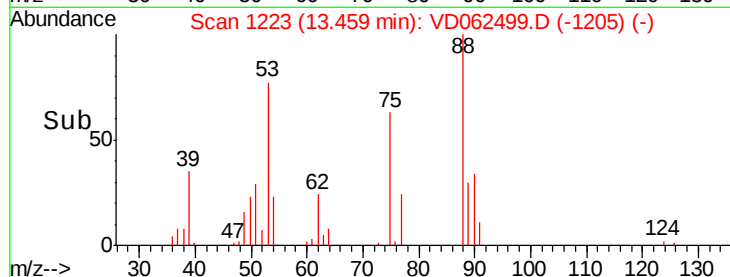
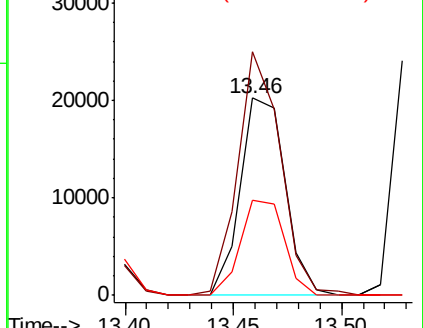
75 100

53 123.4 65.8 98.8#

89 47.9 35.0 52.6



Abundance Ion 75.00 (74.70 to 75.70): VDC
Ion 53.00 (52.70 to 53.70): VDC
Ion 89.00 (88.70 to 89.70): VDC



#82

4-Chlorotoluene

Concen: 20.892 ug/l

RT: 13.94 min Scan# 1272

Delta R.T. -0.02 min

Lab File: VD062499.D

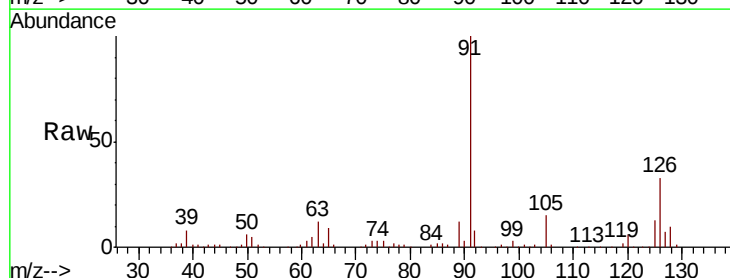
Acq: 22 May 2019 13:13

Tgt Ion: 91 Resp: 478091

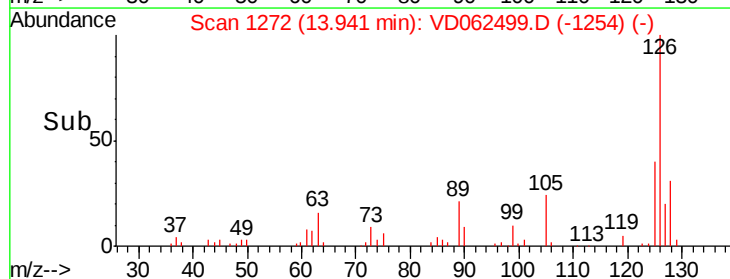
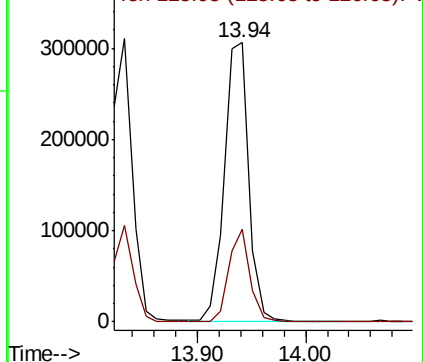
Ion Ratio Lower Upper

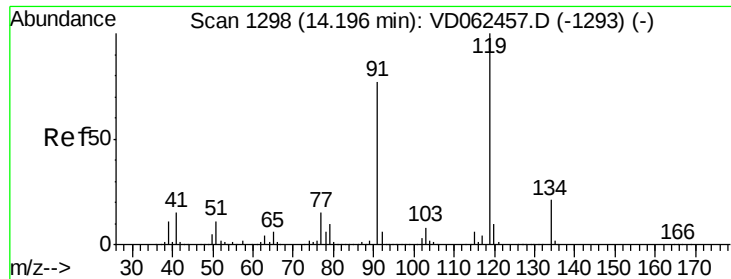
91 100

126 33.4 19.1 57.5



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





#83

tert-Butylbenzene

Concen: 20.426 ug/l

RT: 14.18 min Scan# 1296

Delta R.T. -0.02 min

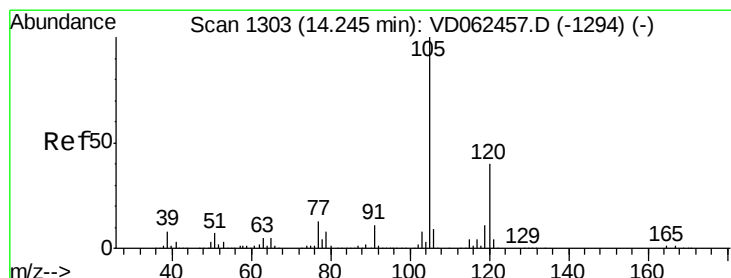
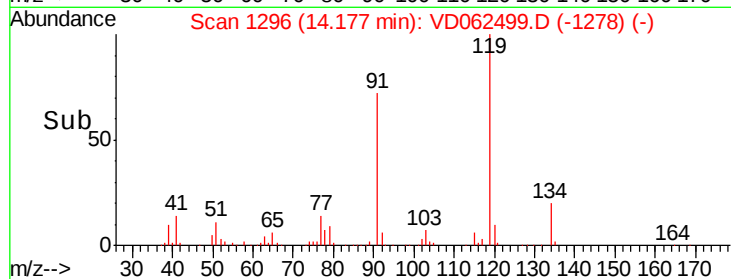
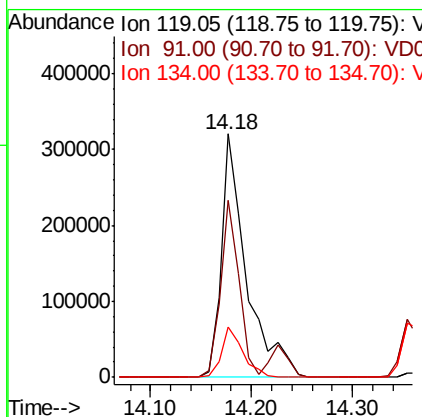
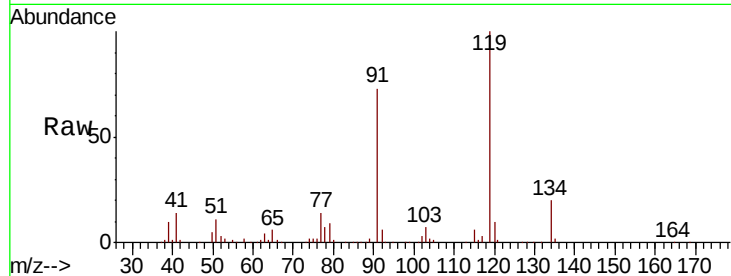
Lab File: VD062499.D

Acq: 22 May 2019 13:13

Instrument :
MSVOA_D
ClientSampleId :
VD0522SBS01

Tot Ion:119 Resp: 554558

Ion	Ratio	Lower	Upper
119	100		
91	72.8	34.2	102.6
134	20.5	12.0	36.0



#84

1,2,4-Trimethylbenzene

Concen: 20.225 ug/l

RT: 14.23 min Scan# 1301

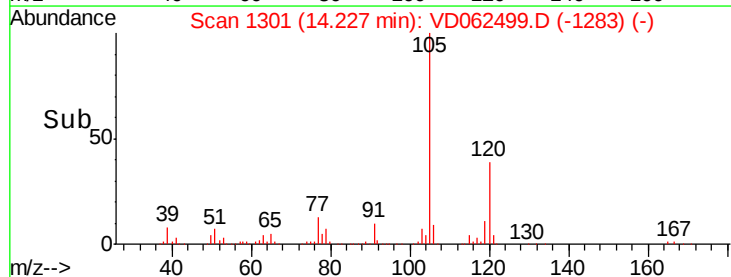
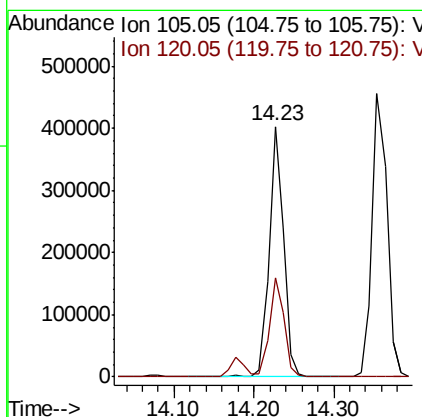
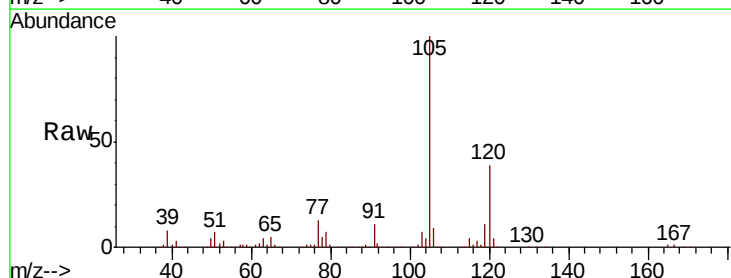
Delta R.T. -0.02 min

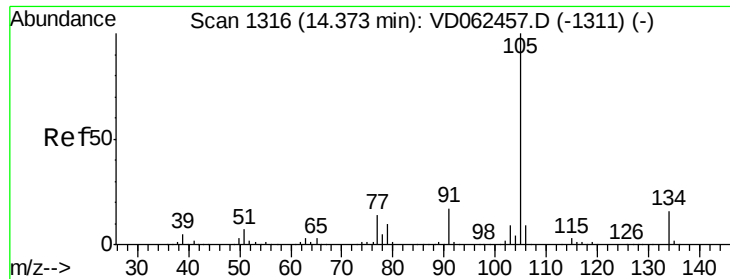
Lab File: VD062499.D

Acq: 22 May 2019 13:13

Tgt Ion:105 Resp: 507230

Ion	Ratio	Lower	Upper
105	100		
120	39.4	23.1	69.2

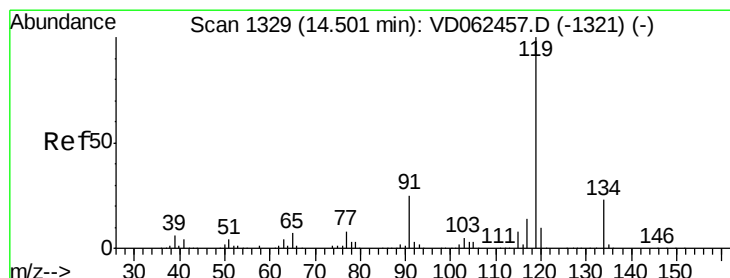
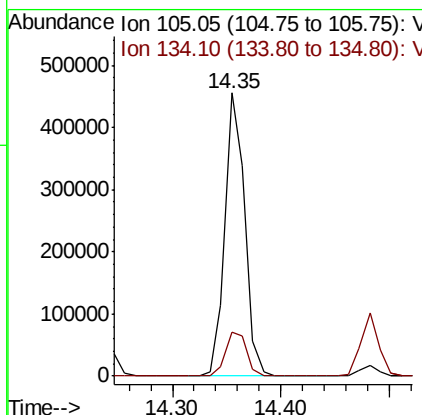
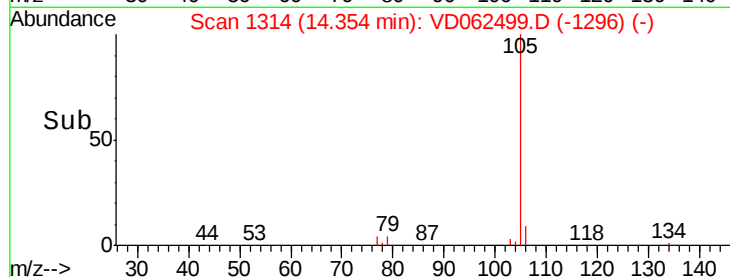
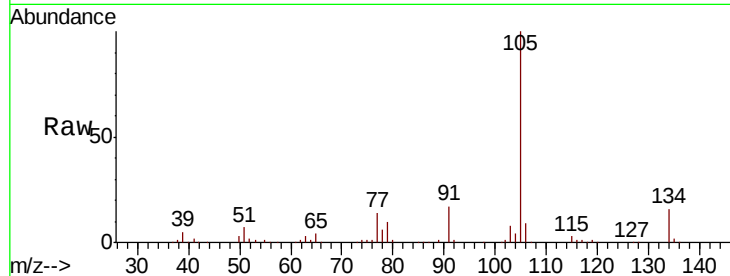




#85
 sec-Butylbenzene
 Concen: 20.520 ug/l
 RT: 14.35 min Scan# 1314
 Delta R.T. -0.02 min
 Lab File: VD062499.D
 Acq: 22 May 2019 13:13

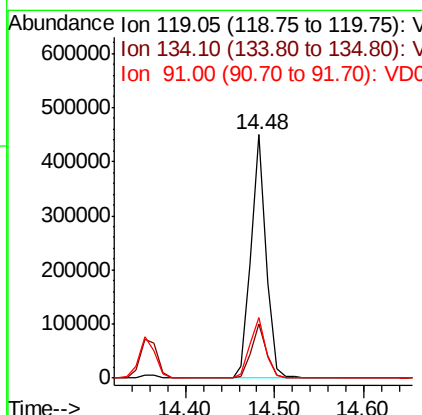
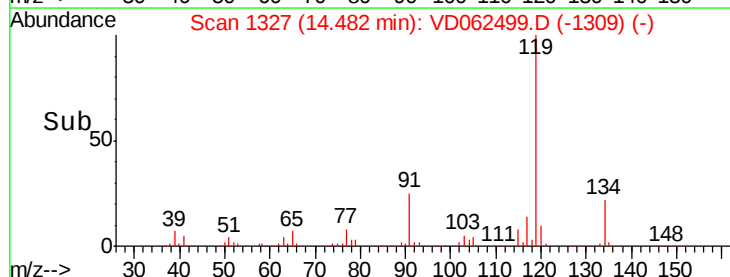
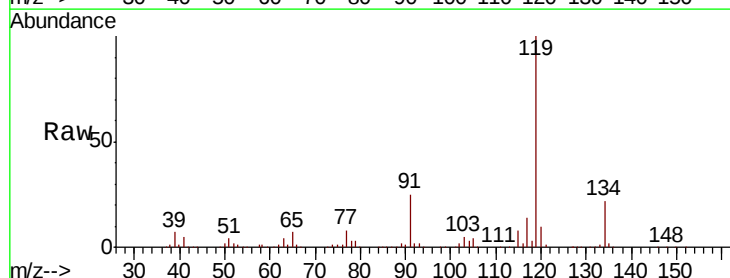
Instrument :
 MSVOA_D
 ClientSampleID :
 VD0522SBS01

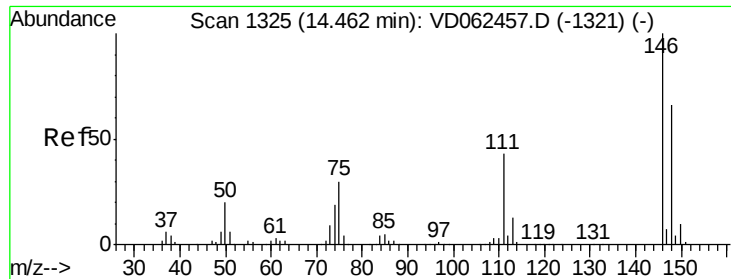
Tot Ion:105 Resp: 580890
 Ion Ratio Lower Upper
 105 100
 134 15.7 8.9 26.7



#86
 p-Isopropyltoluene
 Concen: 20.371 ug/l
 RT: 14.48 min Scan# 1327
 Delta R.T. -0.02 min
 Lab File: VD062499.D
 Acq: 22 May 2019 13:13

Tgt Ion:119 Resp: 522595
 Ion Ratio Lower Upper
 119 100
 134 22.5 12.8 38.3
 91 24.9 10.7 32.1

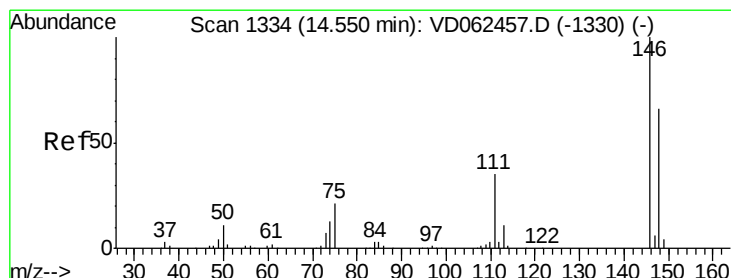
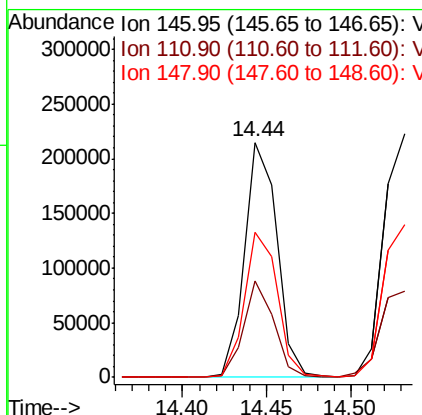
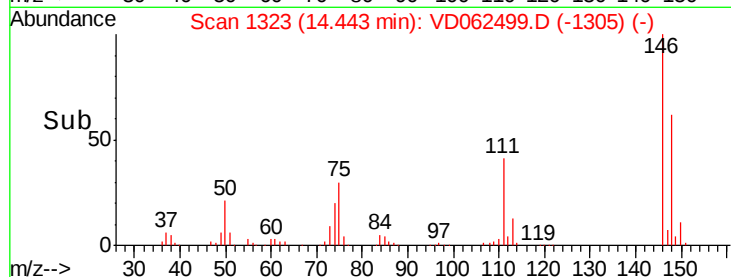
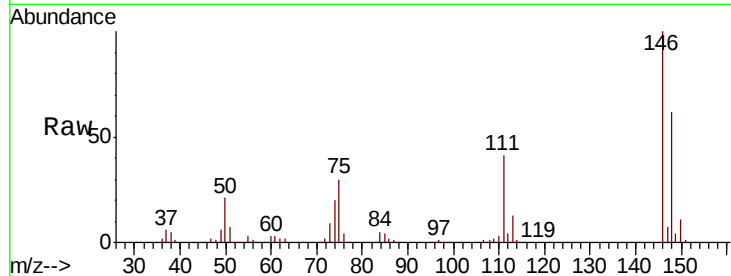




#87
 1,3-Dichlorobenzene
 Concen: 20.278 ug/l
 RT: 14.44 min Scan# 1323
 Delta R.T. -0.02 min
 Lab File: VD062499.D
 Acq: 22 May 2019 13:13

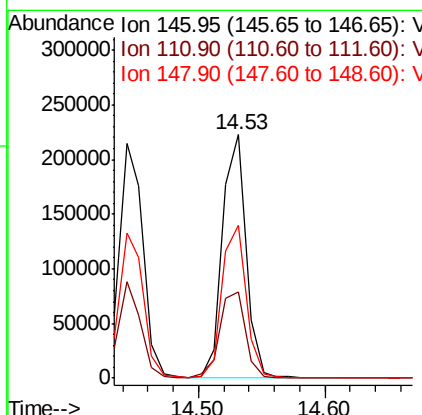
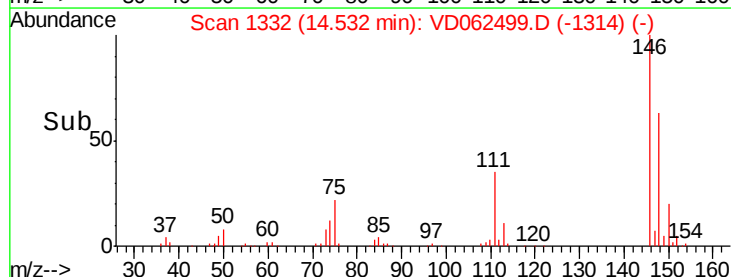
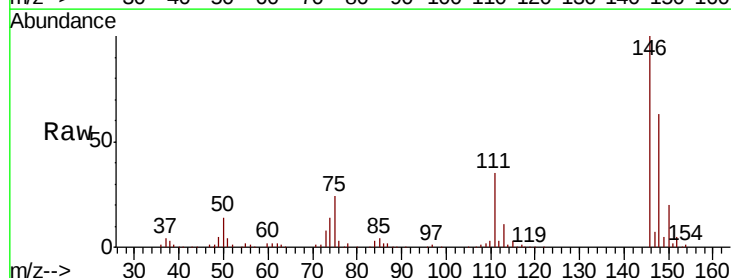
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0522SBS01

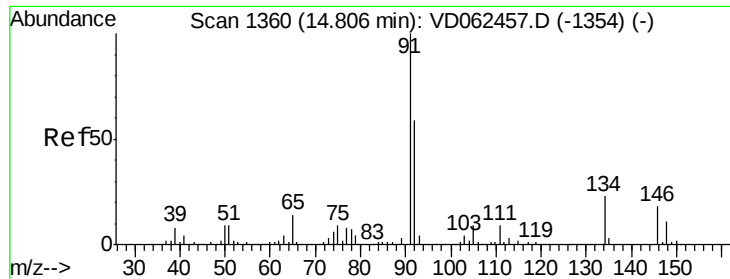
Tot Ion:146 Resp: 287157
 Ion Ratio Lower Upper
 146 100
 111 41.0 20.0 60.0
 148 61.9 31.8 95.4



#88
 1,4-Dichlorobenzene
 Concen: 21.137 ug/l
 RT: 14.53 min Scan# 1332
 Delta R.T. -0.02 min
 Lab File: VD062499.D
 Acq: 22 May 2019 13:13

Tgt Ion:146 Resp: 288832
 Ion Ratio Lower Upper
 146 100
 111 35.5 20.2 60.5
 148 62.6 32.0 96.2





#89

n-Butylbenzene

Concen: 20.823 ug/l

RT: 14.79 min Scan# 1358

Delta R.T. -0.02 min

Lab File: VD062499.D

Acq: 22 May 2019 13:13

Instrument :

MSVOA_D

ClientSampleId :

VD0522SBS01

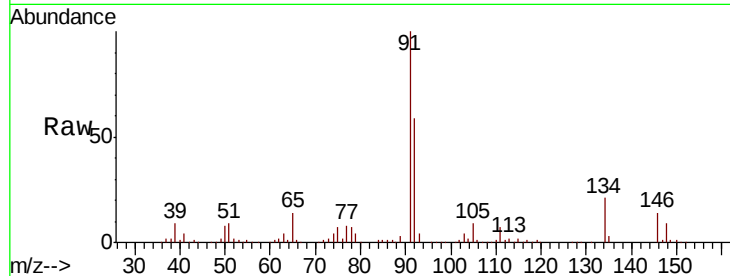
Tot Ion: 91 Resp: 515538

Ion Ratio Lower Upper

91 100

92 58.6 30.3 91.0

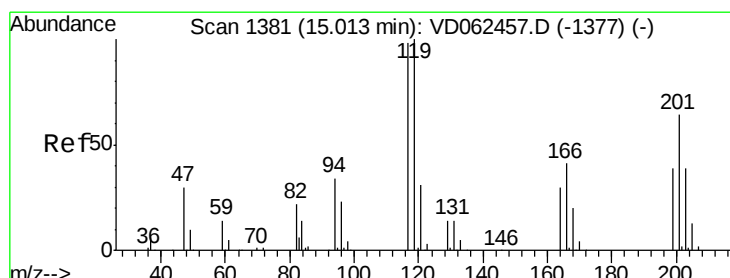
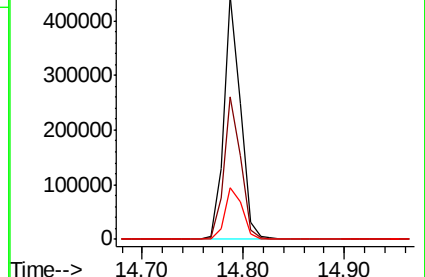
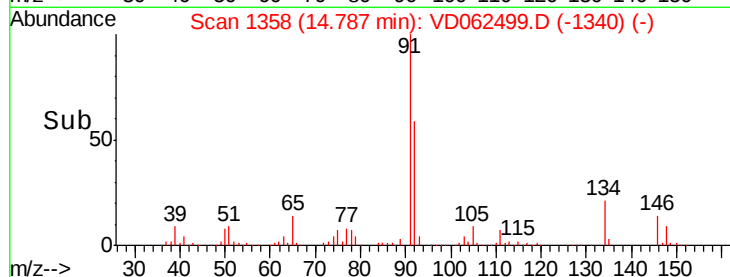
134 21.4 14.5 43.6



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 92.00 (91.70 to 92.70): V

Ion 134.10 (133.80 to 134.80): V



#90

Hexachloroethane

Concen: 19.378 ug/l

RT: 14.99 min Scan# 1379

Delta R.T. -0.02 min

Lab File: VD062499.D

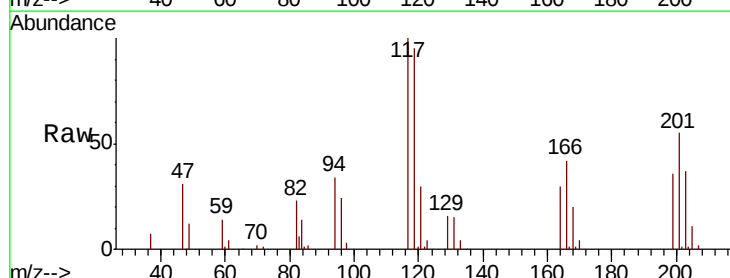
Acq: 22 May 2019 13:13

Tgt Ion: 117 Resp: 137388

Ion Ratio Lower Upper

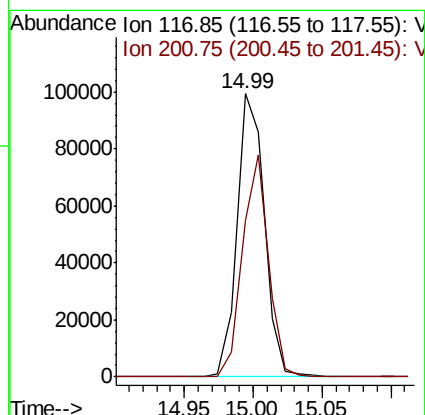
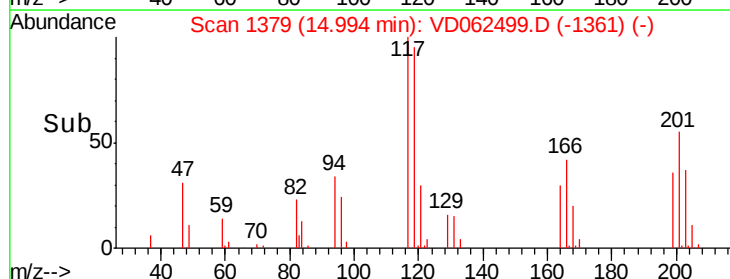
117 100

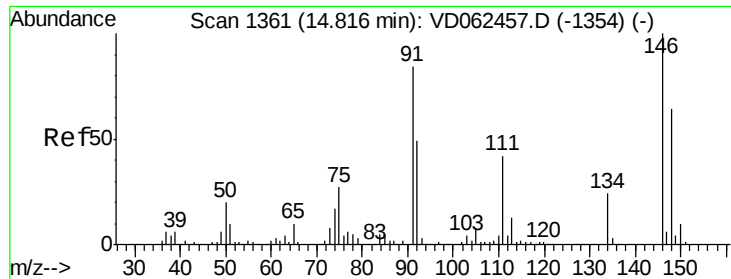
201 55.4 30.2 90.6



Abundance Ion 116.85 (116.55 to 117.55): V

Ion 200.75 (200.45 to 201.45): V

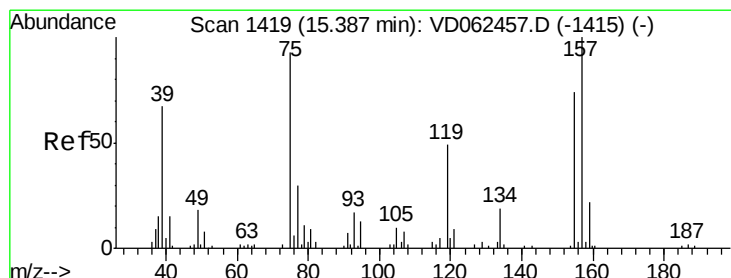
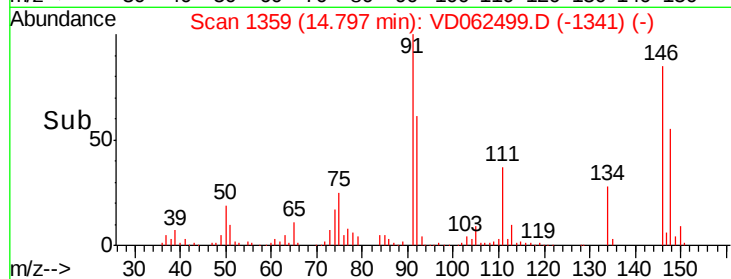
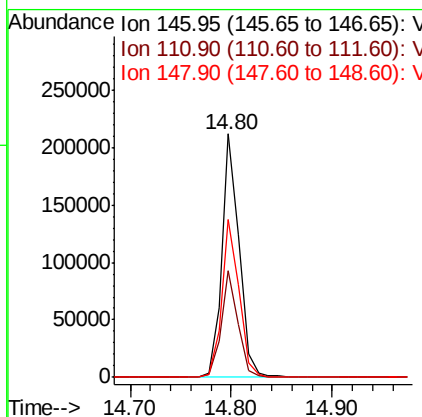
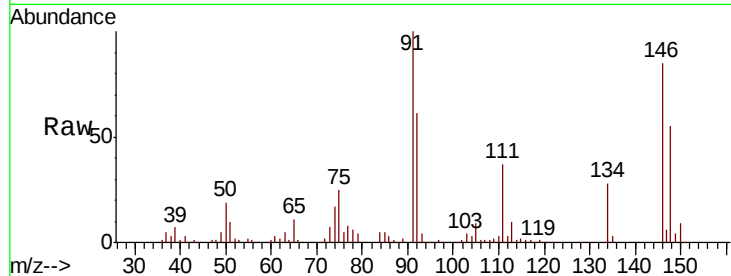




#91
 1,2-Dichlorobenzene
 Concen: 21.006 ug/l
 RT: 14.80 min Scan# 1359
 Delta R.T. -0.02 min
 Lab File: VD062499.D
 Acq: 22 May 2019 13:13

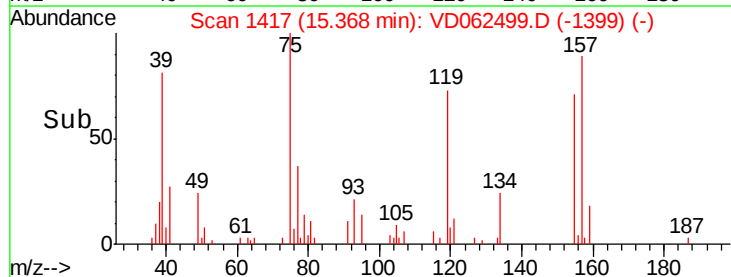
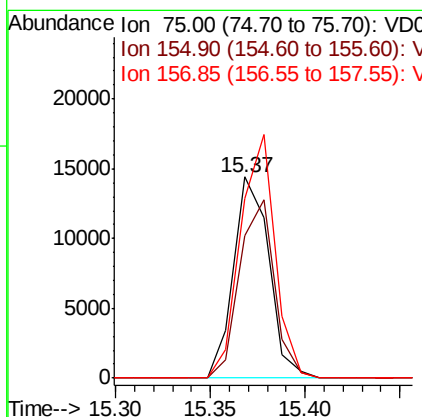
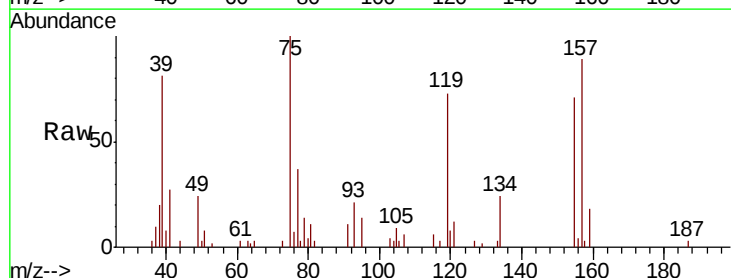
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0522SBS01

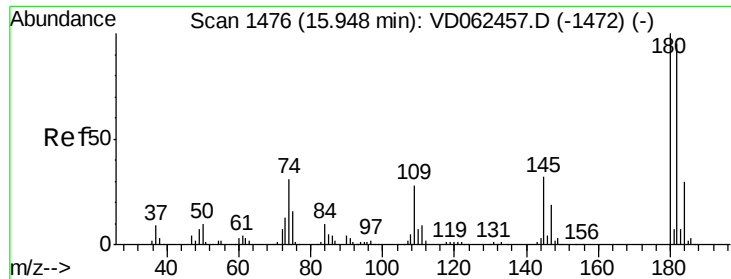
Tot Ion:146 Resp: 252946
 Ion Ratio Lower Upper
 146 100
 111 43.9 20.0 59.9
 148 64.9 32.3 96.8



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 19.196 ug/l
 RT: 15.37 min Scan# 1417
 Delta R.T. -0.02 min
 Lab File: VD062499.D
 Acq: 22 May 2019 13:13

Tgt Ion: 75 Resp: 18582
 Ion Ratio Lower Upper
 75 100
 155 70.9 55.3 165.8
 157 89.2 67.8 203.2

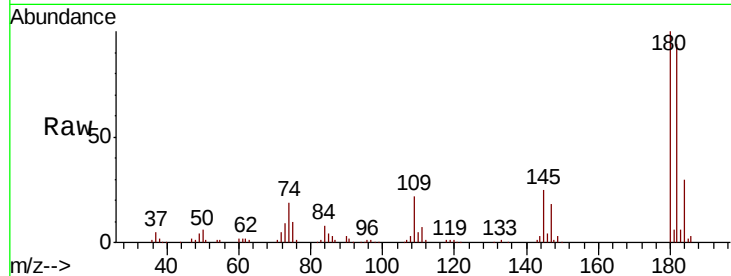




#93
 1,2,4-Trichlorobenzene
 Concen: 19.647 ug/l
 RT: 15.94 min Scan# 1475
 Delta R.T. -0.01 min
 Lab File: VD062499.D
 Acq: 22 May 2019 13:13

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0522SBS01

Tot Ion	Ratio	Lower	Upper
180	100		
182	94.2	49.3	147.8
145	25.1	16.2	48.6

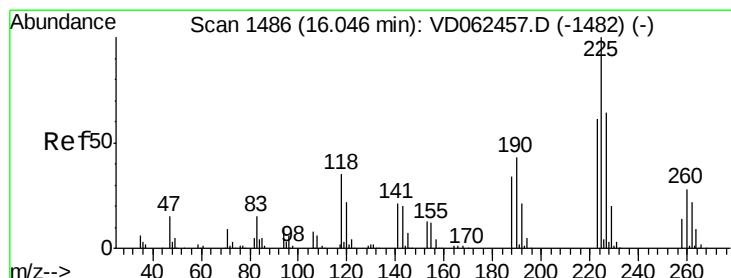
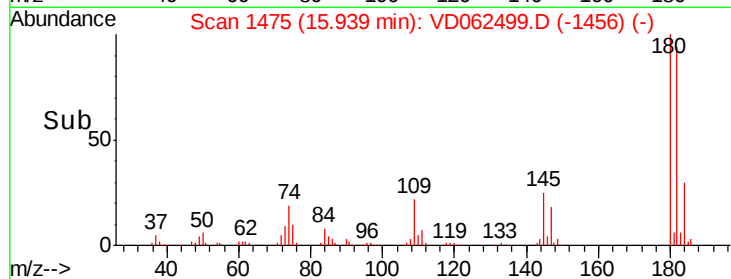
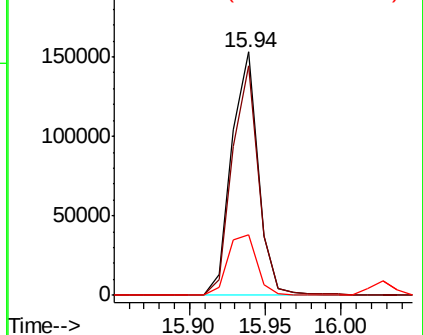


Abundance

Ion 179.85 (179.55 to 180.55): V

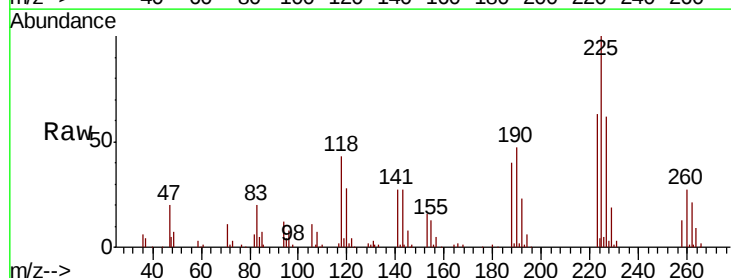
Ion 181.85 (181.55 to 182.55): V

Ion 144.95 (144.65 to 145.65): V



#94
 Hexachlorobutadiene
 Concen: 19.867 ug/l
 RT: 16.03 min Scan# 1484
 Delta R.T. -0.02 min
 Lab File: VD062499.D
 Acq: 22 May 2019 13:13

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.2	30.6	92.0
227	61.7	32.0	96.2

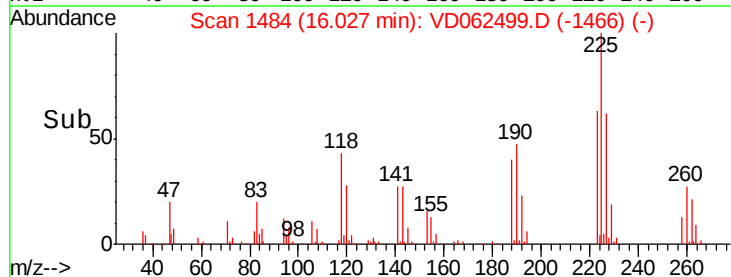
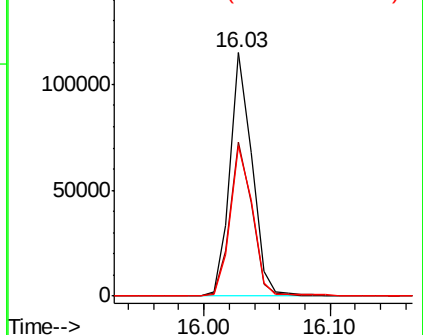


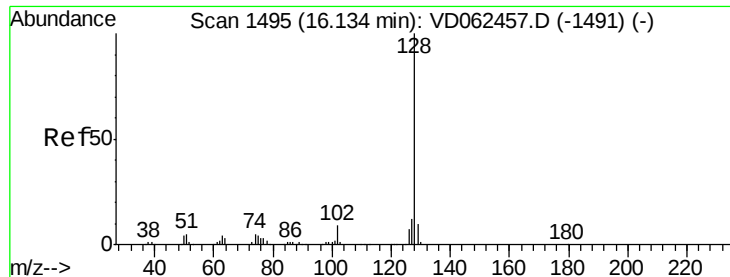
Abundance

Ion 224.75 (224.45 to 225.45): V

Ion 222.75 (222.45 to 223.45): V

Ion 226.75 (226.45 to 227.45): V

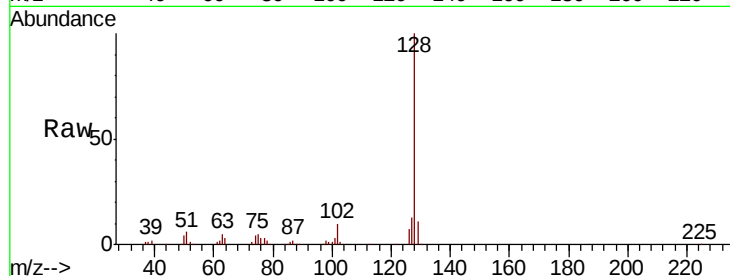




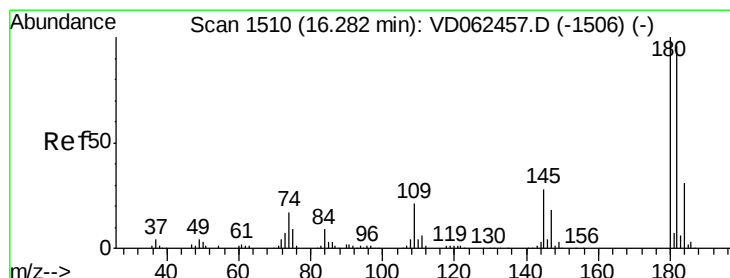
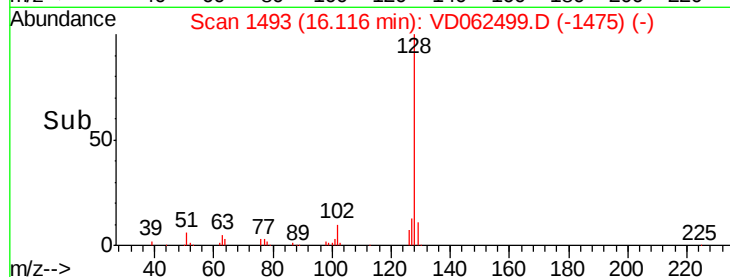
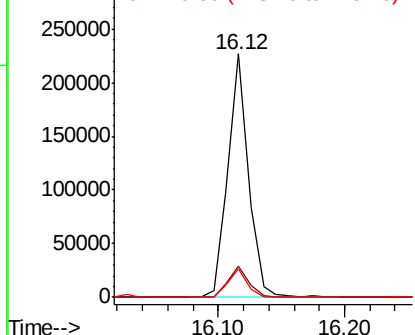
#95
Naphthalene
Concen: 19.568 ug/l
RT: 16.12 min Scan# 1493
Delta R.T. -0.02 min
Lab File: VD062499.D
Acq: 22 May 2019 13:13

Instrument :
MSVOA_D
ClientSampleId :
VD0522SBS01

Tot Ion:128 Resp: 253504
Ion Ratio Lower Upper
128 100
127 12.8 9.8 14.8
129 11.5 8.8 13.2

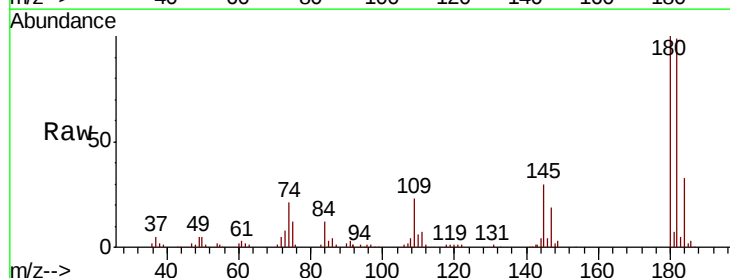


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#96
1,2,3-Trichlorobenzene
Concen: 19.715 ug/l
RT: 16.26 min Scan# 1508
Delta R.T. -0.02 min
Lab File: VD062499.D
Acq: 22 May 2019 13:13

Tgt Ion:180 Resp: 153235
Ion Ratio Lower Upper
180 100
182 98.5 47.0 141.0
145 29.8 17.0 51.0



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

