

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD051319\
 Data File : VD062297.D
 Acq On : 13 May 2019 11:38
 Operator : FY/SY
 Sample : VD0513SBS01
 Misc : 5.00g/5mL/MSVOA D/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0513SBS01

Quant Time: May 14 05:08:01 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D050719S.M
 Quant Title : SW846 8260
 QLast Update : Tue May 07 14:26:29 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.06	168	633682	50.00	ug/l	0.04
34) 1,4-Difluorobenzene	8.23	114	857318	50.00	ug/l	0.04
63) Chlorobenzene-d5	12.38	117	747066	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	14.52	152	405110	50.00	ug/l	0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.46	65	321397	54.58	ug/l	0.04
Spiked Amount			Recovery	=	109.16%	
35) Dibromofluoromethane	6.93	113	359113	50.48	ug/l	0.04
Spiked Amount			Recovery	=	100.96%	
50) Toluene-d8	10.43	98	813334	47.42	ug/l	0.03
Spiked Amount			Recovery	=	94.84%	
62) 4-Bromofluorobenzene	13.57	95	354288	51.44	ug/l	0.02
Spiked Amount			Recovery	=	102.88%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.58	85	128293	21.168	ug/l	97
3) Chloromethane	1.76	50	80777	18.445	ug/l	96
4) Vinyl Chloride	1.86	62	84931	19.734	ug/l	95
5) Bromomethane	2.16	94	30188	29.935	ug/l	99
6) Chloroethane	2.26	64	44772	24.791	ug/l	98
7) Trichlorofluoromethane	2.53	101	226857	27.112	ug/l	98
8) Diethyl Ether	2.88	74	31274	19.380	ug/l	79
9) 1,1,2-Trichlorotrifluoroet	3.15	101	137713	21.757	ug/l	95
10) Methyl Iodide	3.31	142	143942	15.047	ug/l #	76
11) Tert butyl alcohol	4.10	59	31728	105.550	ug/l	96
12) 1,1-Dichloroethene	3.13	96	91936	19.028	ug/l #	79
13) Acrolein	3.05	56	28474	91.583	ug/l	87
14) Allyl chloride	3.63	41	141140	20.090	ug/l #	72
15) Acrylonitrile	4.21	53	74828	94.707	ug/l #	83
16) Acetone	3.23	43	131392	106.394	ug/l #	87
17) Carbon Disulfide	3.38	76	230820	16.607	ug/l	100
18) Methyl Acetate	3.66	43	45694	20.509	ug/l	92
19) Methyl tert-butyl Ether	4.25	73	229224	22.133	ug/l	98
20) Methylene Chloride	3.82	84	110123	21.356	ug/l	96
21) trans-1,2-Dichloroethene	4.24	96	105736	19.666	ug/l	96
22) Diisopropyl ether	5.13	45	319360	21.362	ug/l	92
23) Vinyl Acetate	5.07	43	952374	120.743	ug/l	97
24) 1,1-Dichloroethane	5.00	63	202892	22.497	ug/l	98
25) 2-Butanone	6.09	43	139491	103.553	ug/l #	88
26) 2,2-Dichloropropane	6.04	77	222273	24.742	ug/l	92
27) cis-1,2-Dichloroethene	6.06	96	121107	20.124	ug/l	94
28) Bromochloromethane	6.45	49	88689	24.995	ug/l	84
29) Tetrahydrofuran	6.47	42	62202	100.218	ug/l	94
30) Chloroform	6.68	83	256151	23.567	ug/l	95
31) Cyclohexane	6.96	56	108903	17.626	ug/l	97
32) 1,1,1-Trichloroethane	6.88	97	248973	24.235	ug/l	97
36) 1,1-Dichloropropene	7.16	75	153012	21.768	ug/l	93
37) Ethyl Acetate	6.20	43	70208	23.552	ug/l #	90
38) Carbon Tetrachloride	7.13	117	244256	25.106	ug/l	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	8.87	83	129168	19.179	ug/l	94
40) Benzene	7.47	78	319839	20.150	ug/l	99
41) Methacrylonitrile	6.46	41	79627	21.858	ug/l #	82
42) 1,2-Dichloroethane	7.59	62	177157	26.343	ug/l	92
43) Isopropyl Acetate	9.26	43	91798	21.713	ug/l	95
44) Trichloroethene	8.55	130	118732	19.630	ug/l	75
45) 1,2-Dichloropropane	8.95	63	78578	20.014	ug/l	93
46) Dibromomethane	9.08	93	72444	22.691	ug/l	91
47) Bromodichloromethane	9.39	83	192955	24.708	ug/l	97
48) Methyl methacrylate	9.13	41	62012	23.813	ug/l #	84
49) 1,4-Dioxane	9.10	88	10692	380.540	ug/l #	87
51) 4-Methyl-2-Pentanone	10.31	43	302586	111.343	ug/l	94
52) Toluene	10.53	92	223187	21.611	ug/l	96
53) t-1,3-Dichloropropene	10.93	75	157770	23.375	ug/l	98
54) cis-1,3-Dichloropropene	10.05	75	168017	22.818	ug/l #	86
55) 1,1,2-Trichloroethane	11.20	97	81883	22.409	ug/l	97
56) Ethyl methacrylate	11.06	69	81555	21.478	ug/l #	77
57) 1,3-Dichloropropane	11.42	76	114367	20.717	ug/l	93
58) 2-Chloroethyl Vinyl ether	9.87	63	237745	114.624	ug/l	97
59) 2-Hexanone	11.54	43	220980	110.326	ug/l	88
60) Dibromochloromethane	11.70	129	139523	22.094	ug/l	96
61) 1,2-Dibromoethane	11.81	107	96438	21.708	ug/l	94
64) Tetrachloroethene	11.27	164	115835	19.829	ug/l	97
65) Chlorobenzene	12.40	112	269890	19.397	ug/l	100
66) 1,1,1,2-Tetrachloroethane	12.52	131	132118	21.817	ug/l	94
67) Ethyl Benzene	12.53	91	517057	22.196	ug/l	95
68) m/p-Xylenes	12.68	106	357574	42.191	ug/l	89
69) o-Xylene	13.05	106	169527	21.516	ug/l	78
70) Styrene	13.08	104	266103	19.936	ug/l	96
71) Bromoform	13.24	173	93578	22.211	ug/l	98
73) Isopropylbenzene	13.41	105	514976	21.207	ug/l	94
74) N-amyl acetate	13.27	43	128153	20.129	ug/l	95
75) 1,1,2,2-Tetrachloroethane	13.70	83	90287	19.640	ug/l	98
76) 1,2,3-Trichloropropane	13.74	75	105934	22.004	ug/l	95
77) Bromobenzene	13.67	156	137075	20.164	ug/l	89
78) n-propylbenzene	13.78	91	607755	20.981	ug/l	96
79) 2-Chlorotoluene	13.85	91	350015	21.098	ug/l	94
80) 1,3,5-Trimethylbenzene	13.94	105	423492	20.710	ug/l	91
81) trans-1,4-Dichloro-2-buten	13.48	75	25516	18.774	ug/l #	72
82) 4-Chlorotoluene	13.95	91	428697	21.959	ug/l	79
83) tert-Butylbenzene	14.20	119	498191	21.675	ug/l	91
84) 1,2,4-Trimethylbenzene	14.24	105	445865	21.728	ug/l	90
85) sec-Butylbenzene	14.37	105	550294	21.837	ug/l	95
86) p-Isopropyltoluene	14.50	119	488415	21.693	ug/l	94
87) 1,3-Dichlorobenzene	14.46	146	251983	20.292	ug/l	98
88) 1,4-Dichlorobenzene	14.54	146	256586	21.029	ug/l	100
89) n-Butylbenzene	14.81	91	427314	21.145	ug/l	94
90) Hexachloroethane	15.01	117	126366	20.639	ug/l	92
91) 1,2-Dichlorobenzene	14.82	146	213857	20.911	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	15.39	75	17175	22.759	ug/l	84

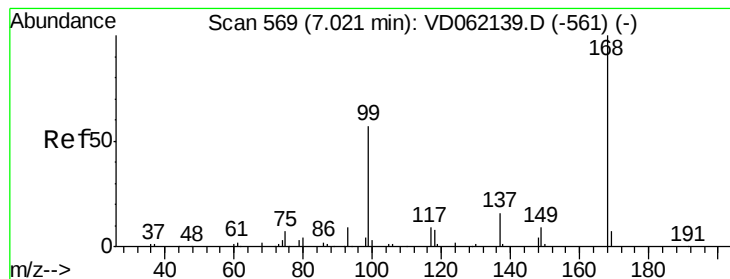
Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD051319\
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.95	180	171684	23.064	ug/l	96
94) Hexachlorobutadiene	16.05	225	119499	21.584	ug/l	96
95) Naphthalene	16.13	128	202606	19.495	ug/l	98
96) 1,2,3-Trichlorobenzene	16.27	180	113590	24.270	ug/l	95

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.06 min Scan# 573

Delta R.T. 0.04 min

Lab File: VD062297.D

Acq: 13 May 2019 11:38

Instrument :

MSVOA_D

ClientSampleId :

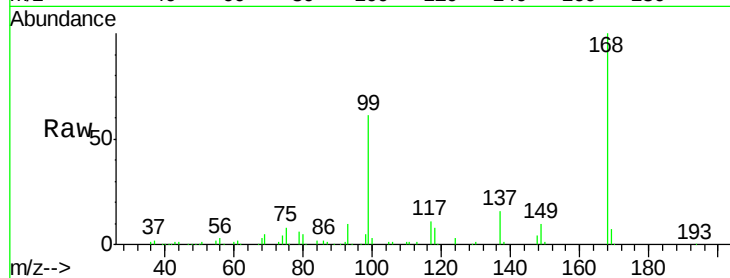
VD0513SBS01

Tot Ion:168 Resp: 633682

Ion Ratio Lower Upper

168 100

99 60.7 46.5 69.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.06

250000

200000

150000

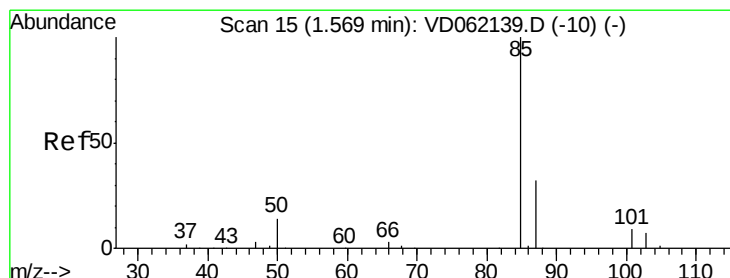
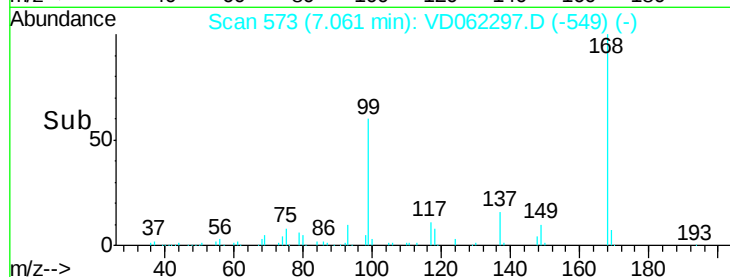
100000

50000

0

Time-->

6.90 7.00 7.10 7.20



#2

Dichlorodifluoromethane

Concen: 21.168 ug/l

RT: 1.58 min Scan# 16

Delta R.T. 0.01 min

Lab File: VD062297.D

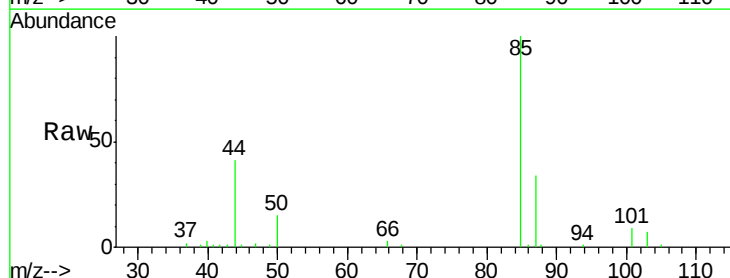
Acq: 13 May 2019 11:38

Tgt Ion: 85 Resp: 128293

Ion Ratio Lower Upper

85 100

87 33.8 16.2 48.6



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.58

60000

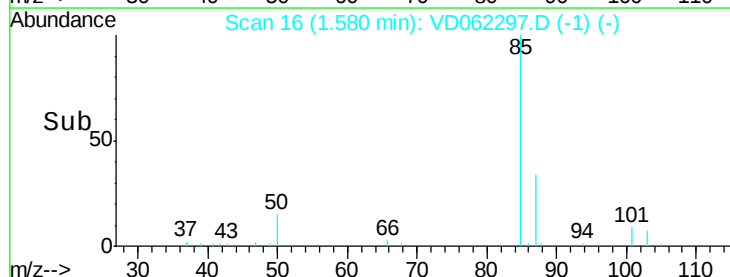
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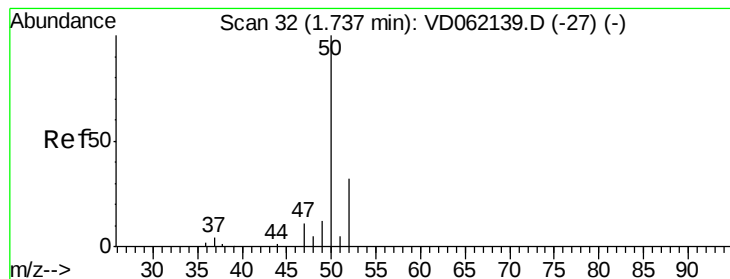
20000

0

Time-->

1.50 1.60 1.70





#3

Chloromethane

Concen: 18.445 ug/l

RT: 1.76 min Scan# 34

Delta R.T. 0.02 min

Lab File: VD062297.D

Acq: 13 May 2019 11:38

Instrument :

MSVOA_D

ClientSampleId :

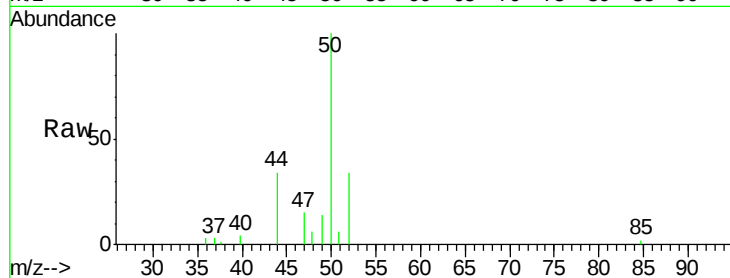
VD0513SBS01

Tot Ion: 50 Resp: 80777

Ion Ratio Lower Upper

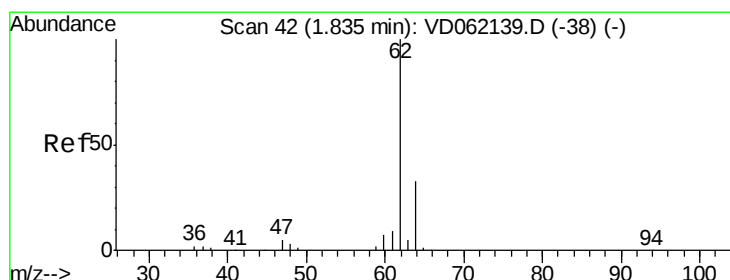
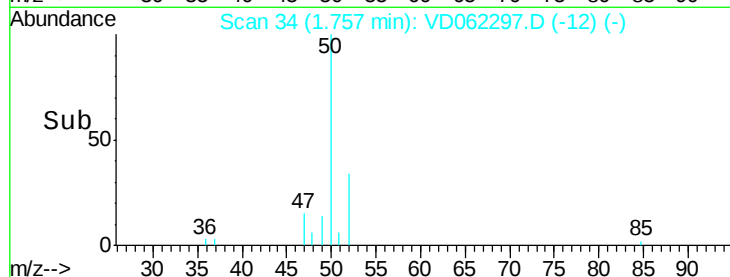
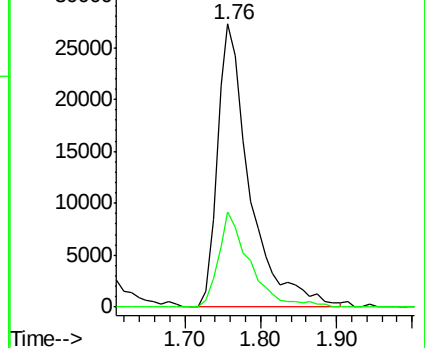
50 100

52 33.6 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: 19.734 ug/l

RT: 1.86 min Scan# 44

Delta R.T. 0.02 min

Lab File: VD062297.D

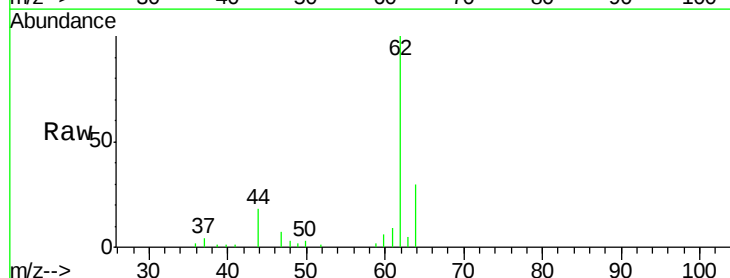
Acq: 13 May 2019 11:38

Tgt Ion: 62 Resp: 84931

Ion Ratio Lower Upper

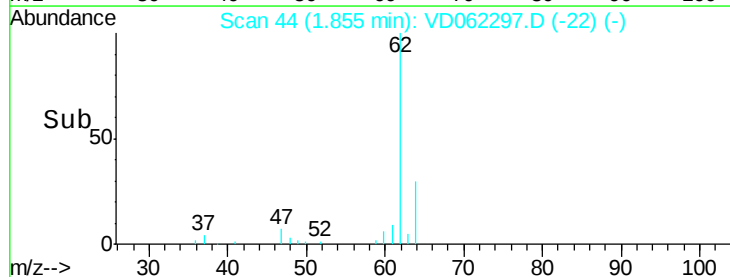
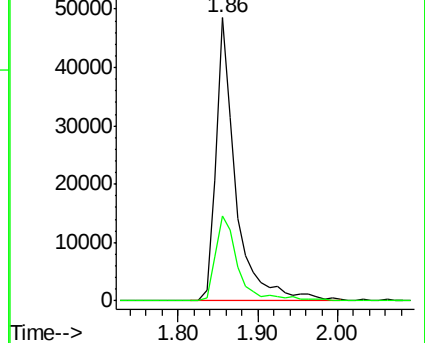
62 100

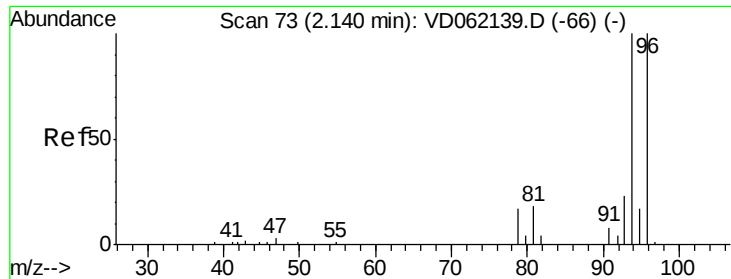
64 30.2 26.5 39.7



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC





#5

Bromomethane

Concen: 29.935 ug/l

RT: 2.16 min Scan# 75

Delta R.T. 0.02 min

Lab File: VD062297.D

Acq: 13 May 2019 11:38

Instrument :

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ClientSampleId :

VD0513SBS01

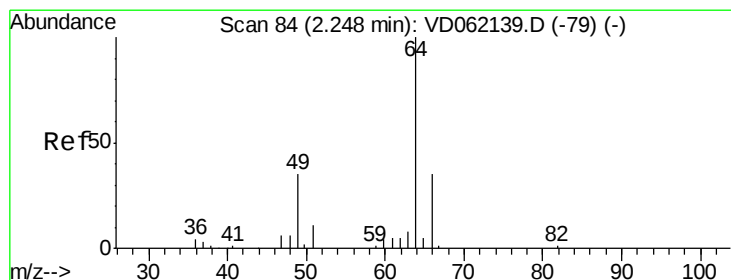
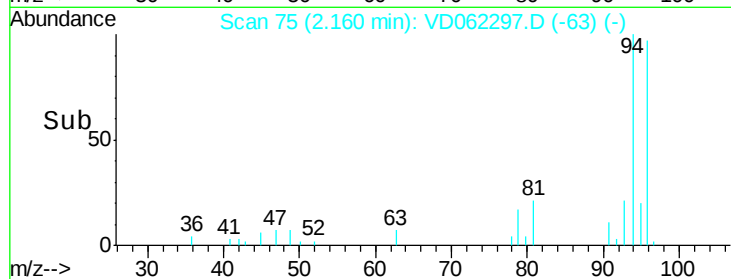
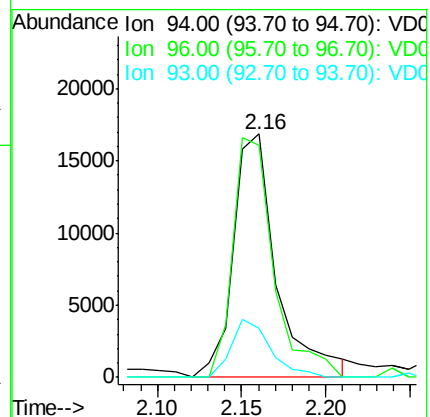
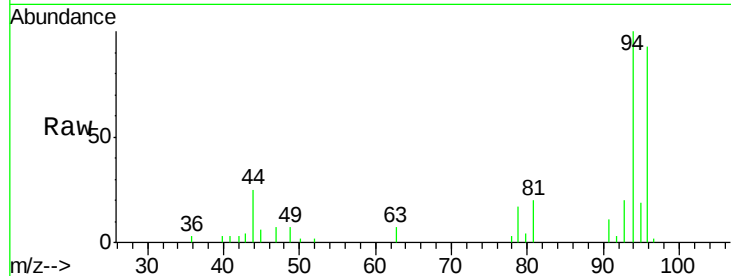
Tot Ion: 94 Resp: 30188

Ion Ratio Lower Upper

94 100

96 95.4 76.6 115.0

93 20.4 18.5 27.7



#6

Chloroethane

Concen: 24.791 ug/l

RT: 2.26 min Scan# 85

Delta R.T. 0.01 min

Lab File: VD062297.D

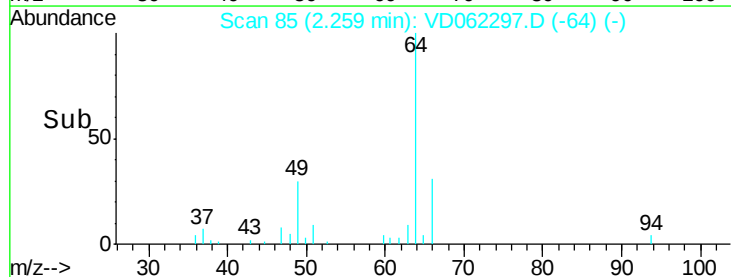
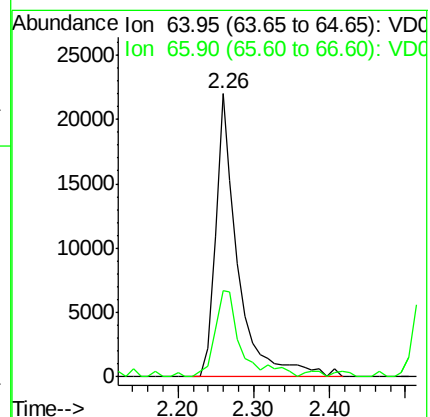
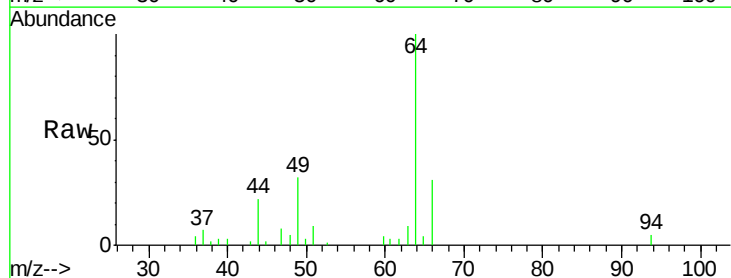
Acq: 13 May 2019 11:38

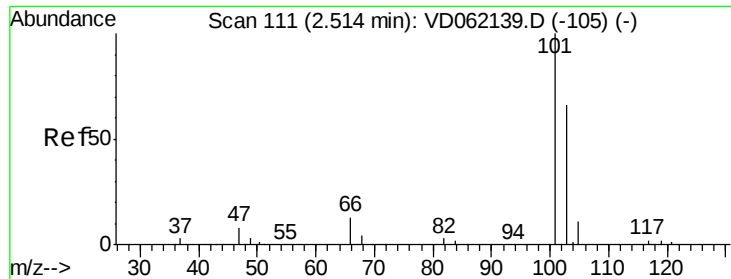
Tgt Ion: 64 Resp: 44772

Ion Ratio Lower Upper

64 100

66 30.7 25.6 38.4



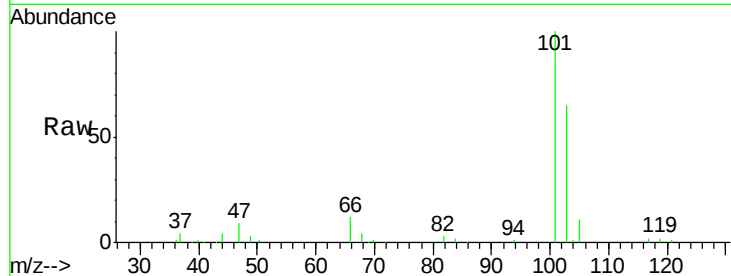


#7

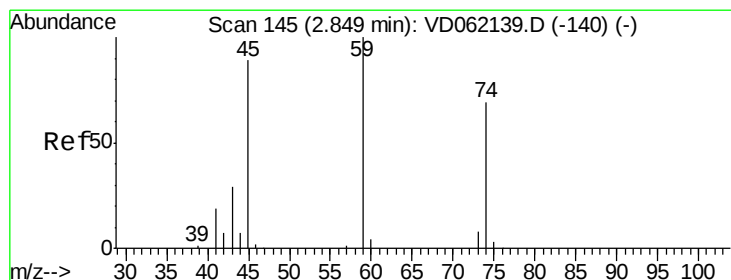
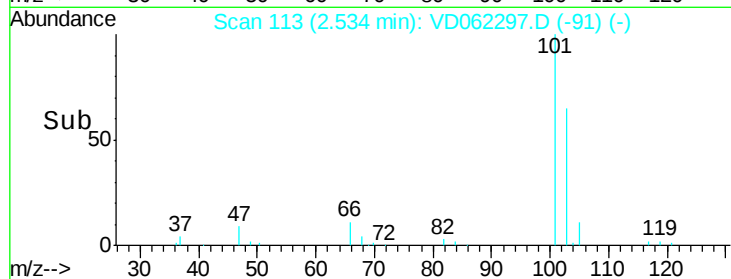
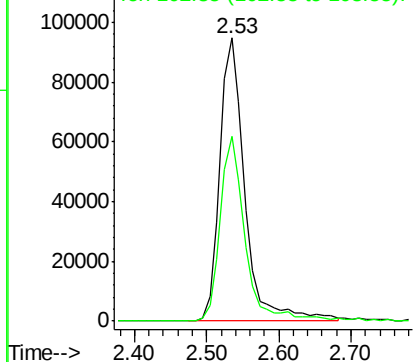
Trichlorofluoromethane
 Concen: 27.112 ug/l
 RT: 2.53 min Scan# 113
 Delta R.T. 0.02 min
 Lab File: VD062297.D
 Acq: 13 May 2019 11:38

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0513SBS01

Tot Ion:101 Resp: 226857
 Ion Ratio Lower Upper
 101 100
 103 65.3 53.6 80.4



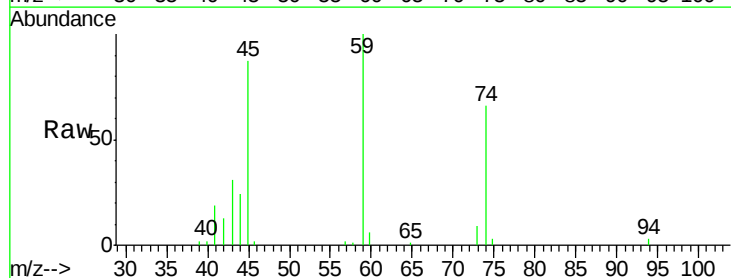
Abundance Ion 100.85 (100.55 to 101.55): V
 Ion 102.85 (102.55 to 103.55): V



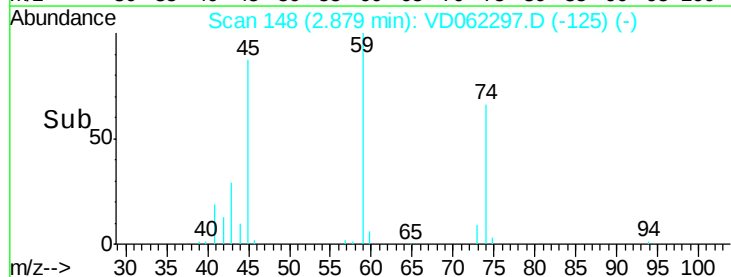
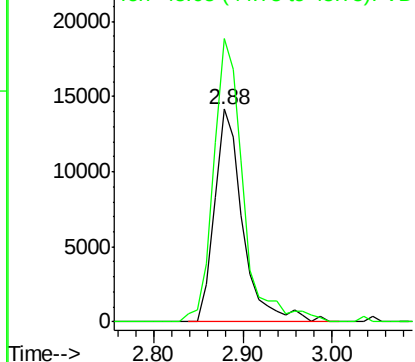
#8

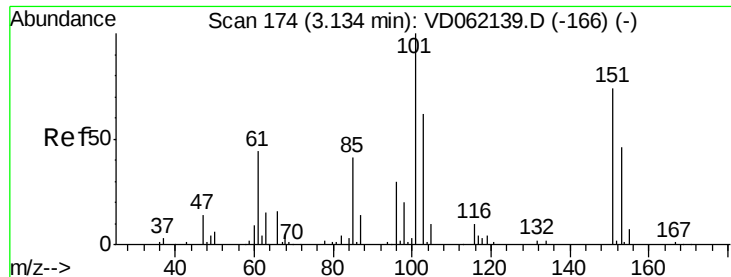
Diethyl Ether
 Concen: 19.380 ug/l
 RT: 2.88 min Scan# 148
 Delta R.T. 0.03 min
 Lab File: VD062297.D
 Acq: 13 May 2019 11:38

Tgt Ion: 74 Resp: 31274
 Ion Ratio Lower Upper
 74 100
 45 136.1 56.9 170.7



Abundance Ion 74.00 (73.70 to 74.70): VDC
 Ion 45.05 (44.75 to 45.75): VDC





#9

1,1,2-Trichlorotrifluoroethane

Concen: 21.757 ug/l

RT: 3.15 min Scan# 176

Delta R.T. 0.02 min

Lab File: VD062297.D

Acq: 13 May 2019 11:38

Instrument :

MSVOA_D

ClientSampleId :

VD0513SBS01

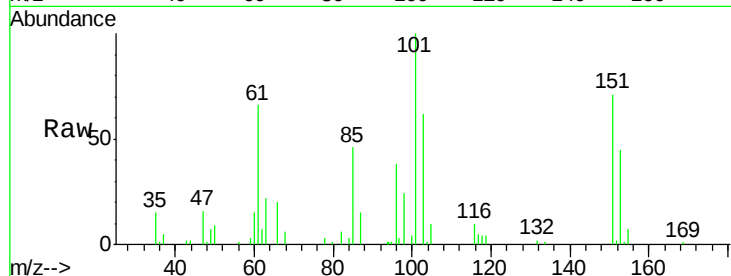
Tot Ion:101 Resp: 137713

Ion Ratio Lower Upper

101 100

85 46.1 32.4 48.6

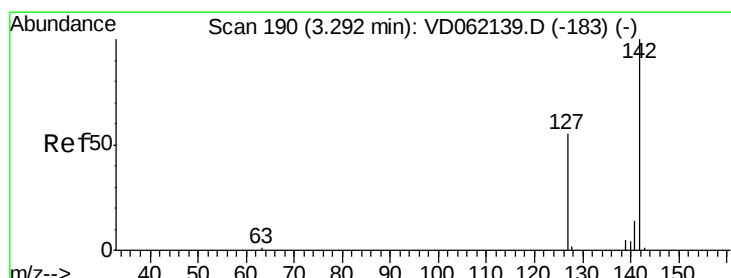
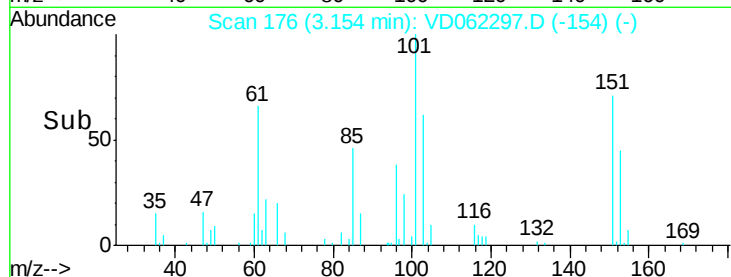
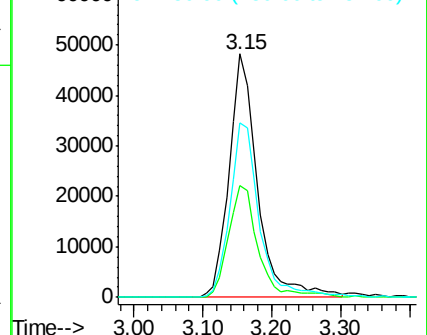
151 71.4 59.4 89.0



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: 15.047 ug/l

RT: 3.31 min Scan# 192

Delta R.T. 0.02 min

Lab File: VD062297.D

Acq: 13 May 2019 11:38

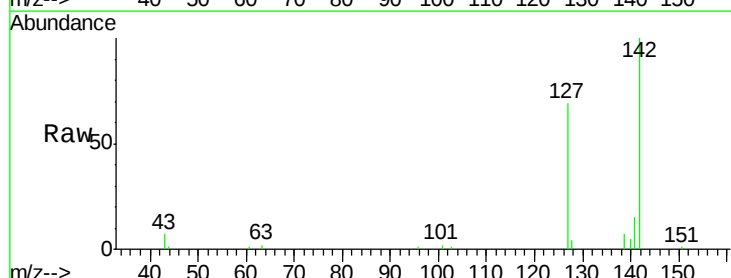
Tgt Ion:142 Resp: 143942

Ion Ratio Lower Upper

142 100

127 69.1 38.8 58.2#

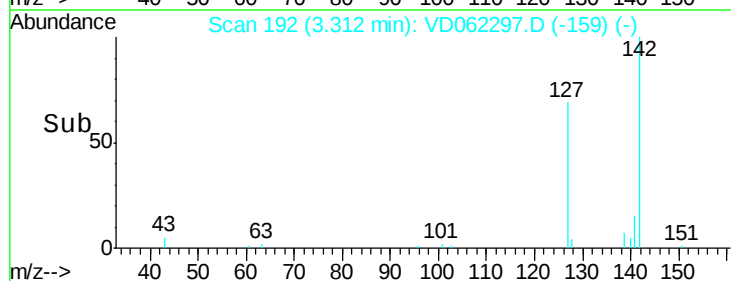
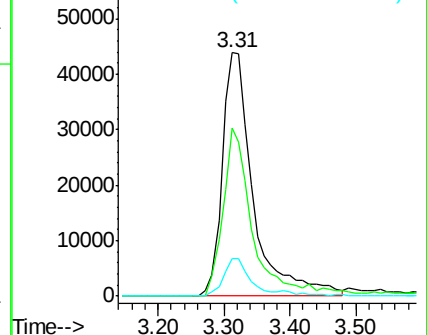
141 15.3 11.4 17.0



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

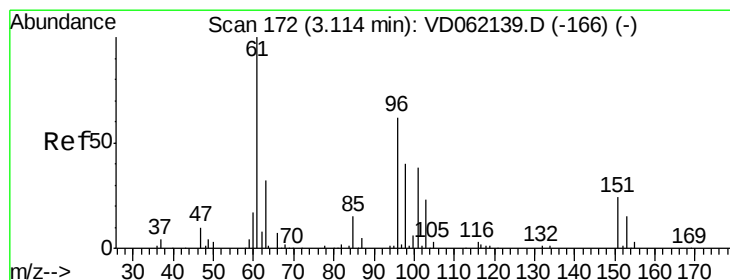
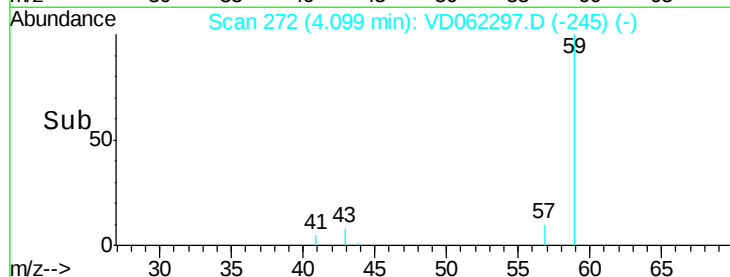
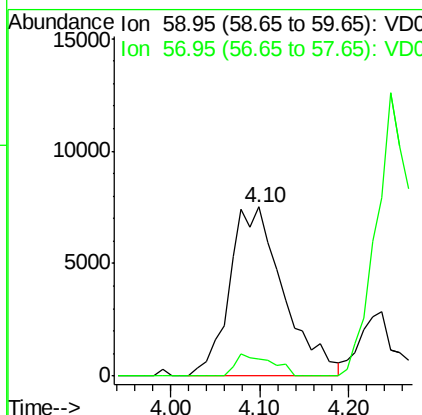
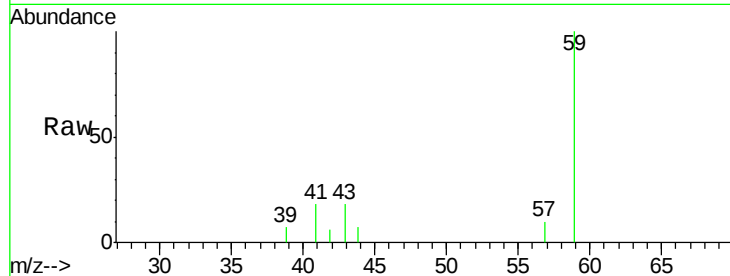




#11
Tert butyl alcohol
Concen: 105.550 ug/l
RT: 4.10 min Scan# 272
Delta R.T. 0.07 min
Lab File: VD062297.D
Acq: 13 May 2019 11:38

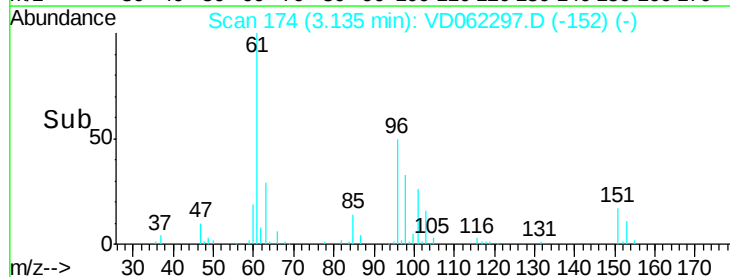
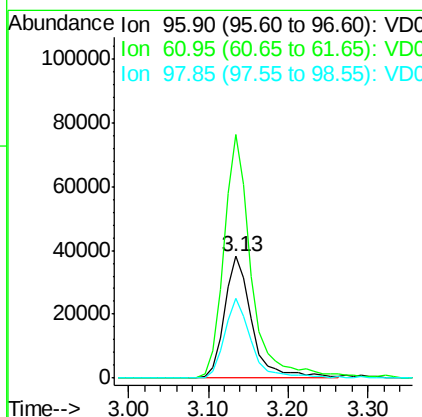
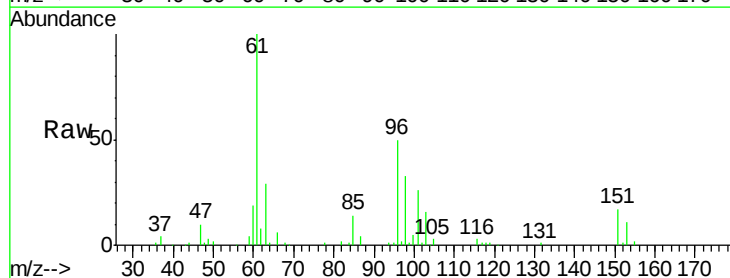
Instrument :
MSVOA_D
ClientSampleId :
VD0513SBS01

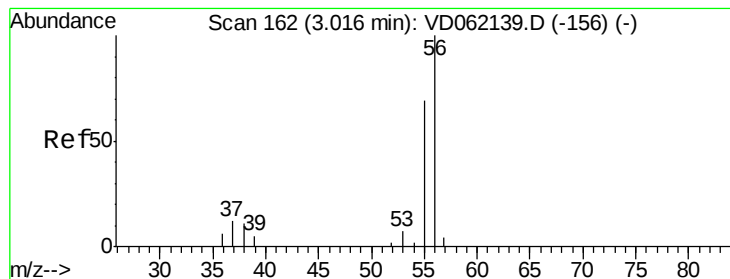
Tot Ion: 59 Resp: 31728
Ion Ratio Lower Upper
59 100
57 9.9 6.9 10.3



#12
1,1-Dichloroethene
Concen: 19.028 ug/l
RT: 3.13 min Scan# 174
Delta R.T. 0.02 min
Lab File: VD062297.D
Acq: 13 May 2019 11:38

Tgt Ion: 96 Resp: 91936
Ion Ratio Lower Upper
96 100
61 200.1 129.8 194.8#
98 65.6 51.2 76.8





#13

Acrolein

Concen: 91.583 ug/l

RT: 3.05 min Scan# 165

Delta R.T. 0.03 min

Lab File: VD062297.D

Acq: 13 May 2019 11:38

Instrument :

MSVOA_D

ClientSampleId :

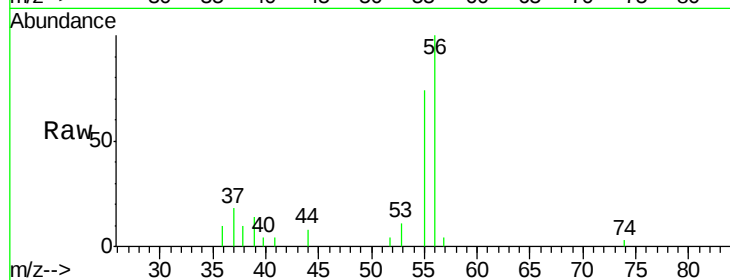
VD0513SBS01

Tot Ion: 56 Resp: 28474

Ion Ratio Lower Upper

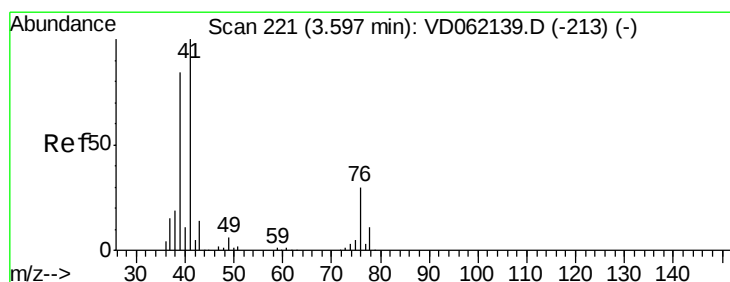
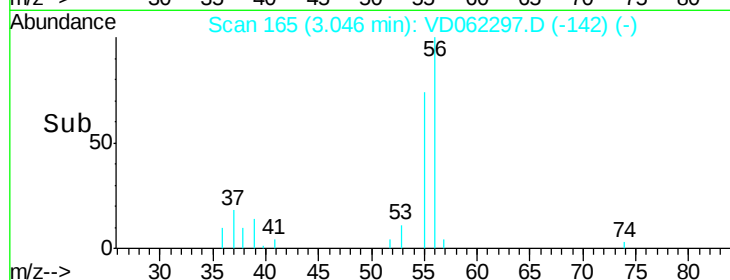
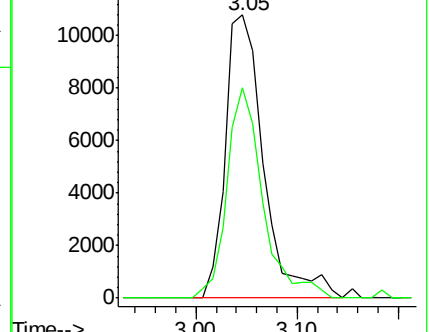
56 100

55 74.4 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: 20.090 ug/l

RT: 3.63 min Scan# 224

Delta R.T. 0.03 min

Lab File: VD062297.D

Acq: 13 May 2019 11:38

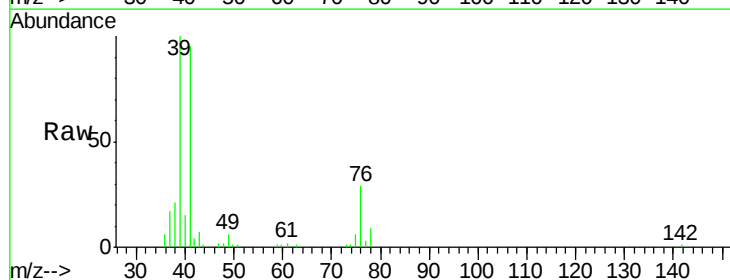
Tgt Ion: 41 Resp: 141140

Ion Ratio Lower Upper

41 100

39 104.8 60.5 90.7#

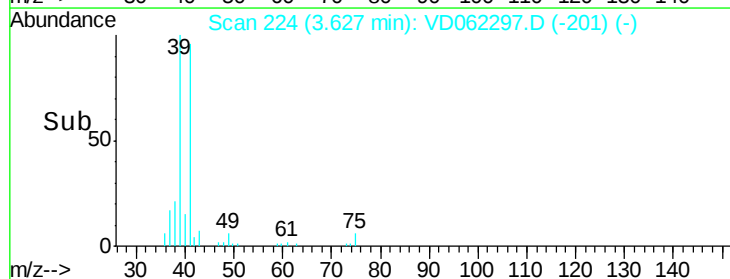
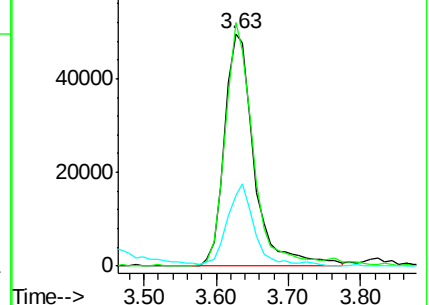
76 30.2 31.8 47.8#

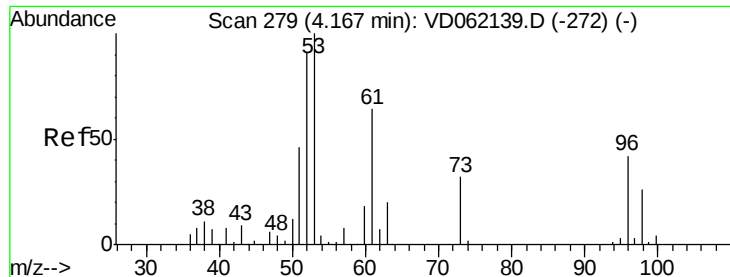


Abundance Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 75.95 (75.65 to 76.65): VDC





#15

Acrylonitrile

Concen: 94.707 ug/l

RT: 4.21 min Scan# 283

Delta R.T. 0.04 min

Lab File: VD062297.D

Acq: 13 May 2019 11:38

Instrument :

MSVOA_D

ClientSampleId :

VD0513SBS01

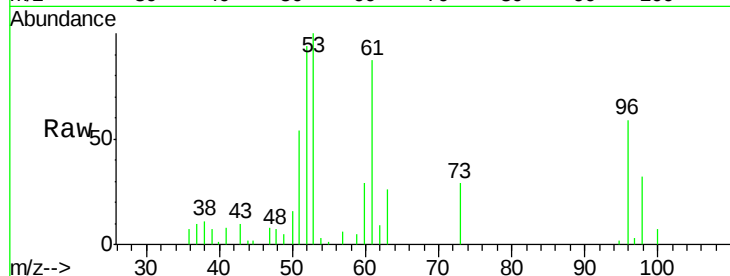
Tot Ion: 53 Resp: 74828

Ion Ratio Lower Upper

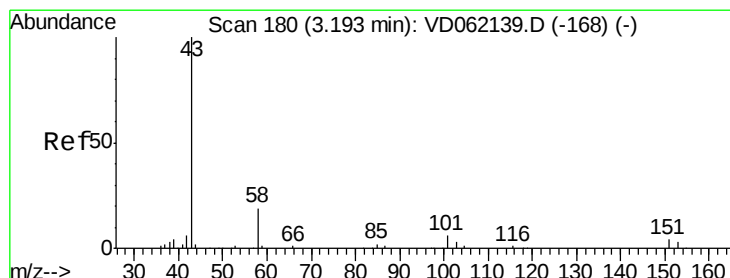
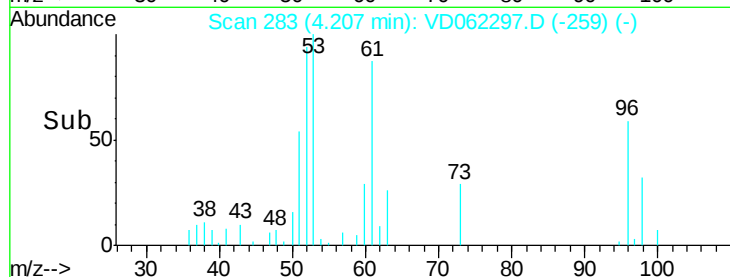
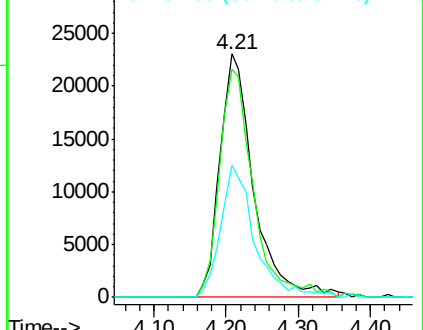
53 100

52 93.7 65.0 97.4

51 54.3 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: 106.394 ug/l

RT: 3.23 min Scan# 184

Delta R.T. 0.04 min

Lab File: VD062297.D

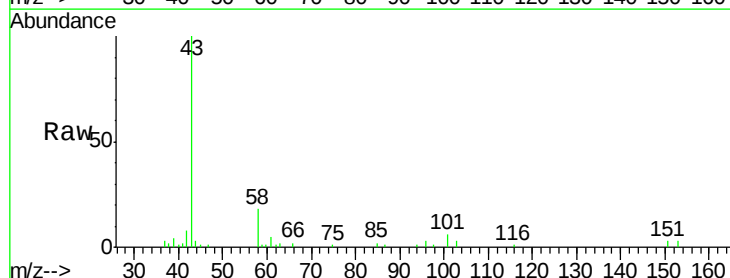
Acq: 13 May 2019 11:38

Tgt Ion: 43 Resp: 131392

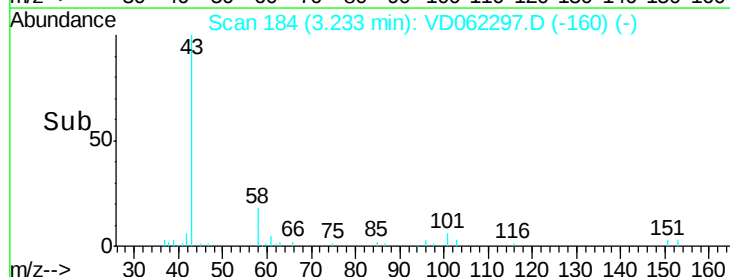
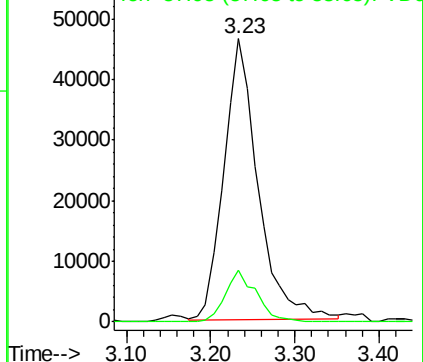
Ion Ratio Lower Upper

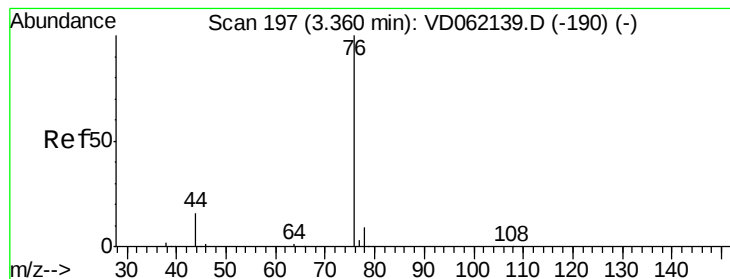
43 100

58 18.5 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: 16.607 ug/l

RT: 3.38 min Scan# 199

Delta R.T. 0.02 min

Lab File: VD062297.D

Acq: 13 May 2019 11:38

Instrument :

MSVOA_D

ClientSampleId :

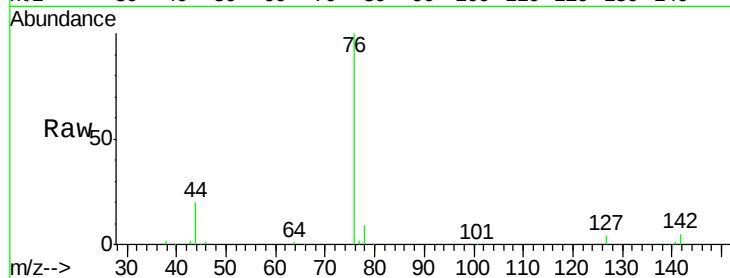
VD0513SBS01

Tot Ion: 76 Resp: 230820

Ion Ratio Lower Upper

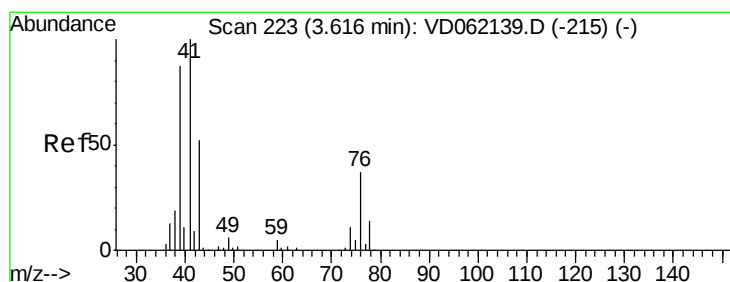
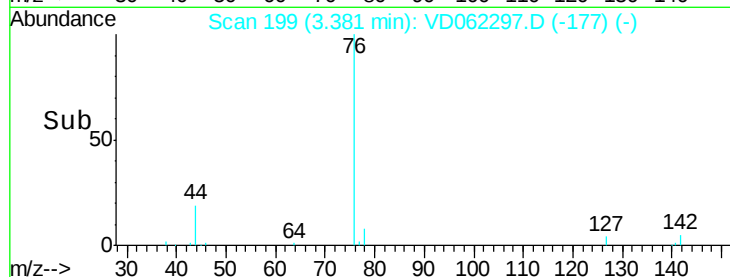
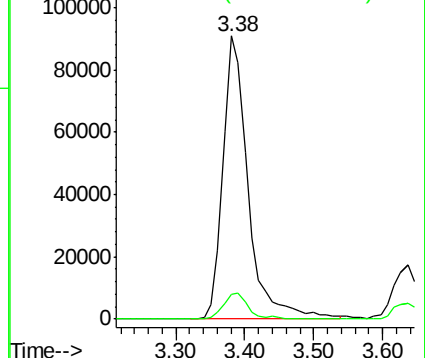
76 100

78 8.9 7.2 10.8



Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC



#18

Methyl Acetate

Concen: 20.509 ug/l

RT: 3.66 min Scan# 227

Delta R.T. 0.04 min

Lab File: VD062297.D

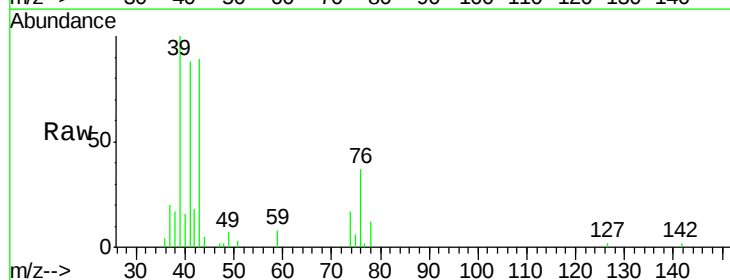
Acq: 13 May 2019 11:38

Tgt Ion: 43 Resp: 45694

Ion Ratio Lower Upper

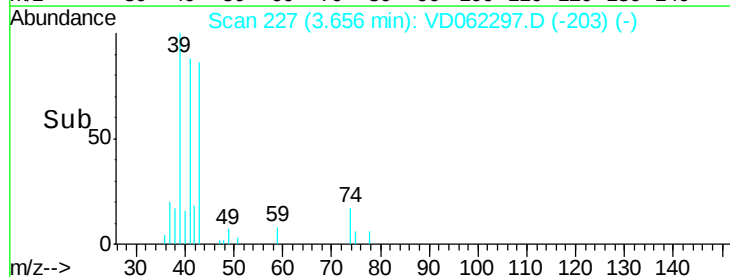
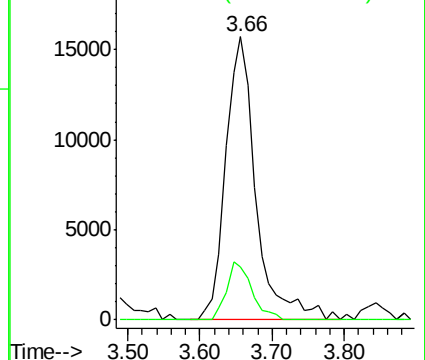
43 100

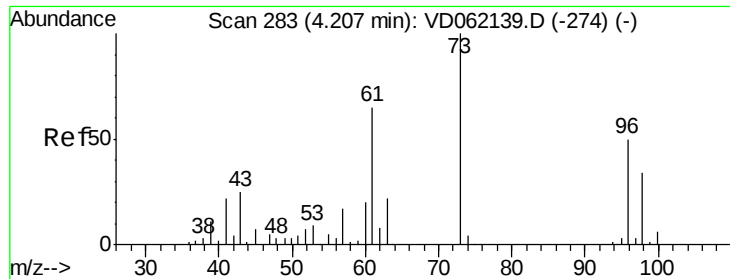
74 18.7 18.0 27.0



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC

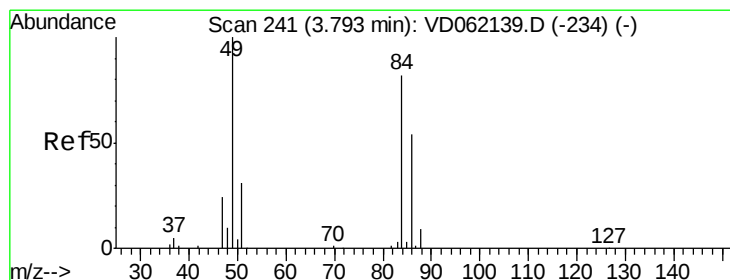
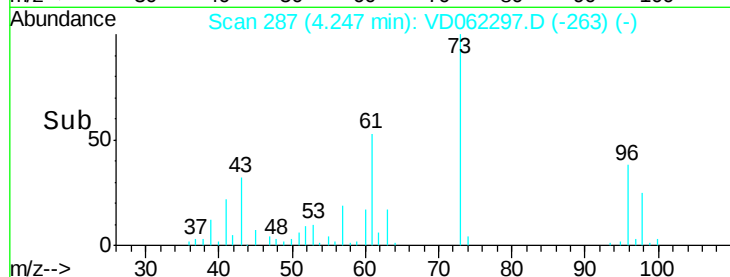
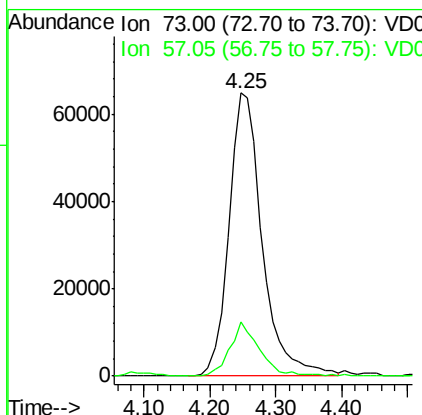
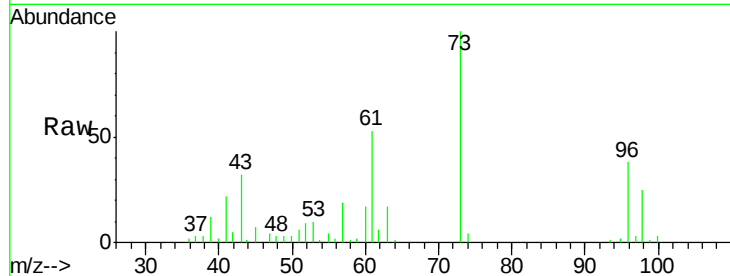




#19
Methvl tert-butvl Ether
Concen: 22.133 ug/l
RT: 4.25 min Scan# 287
Delta R.T. 0.04 min
Lab File: VD062297.D
Acq: 13 May 2019 11:38

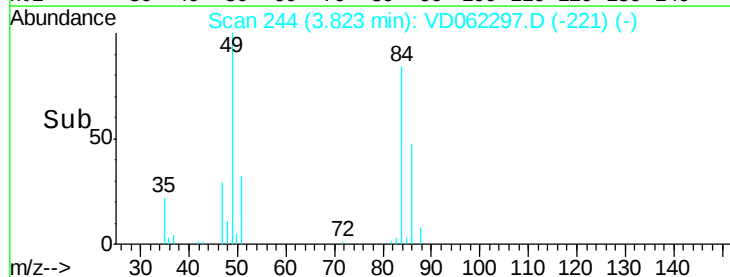
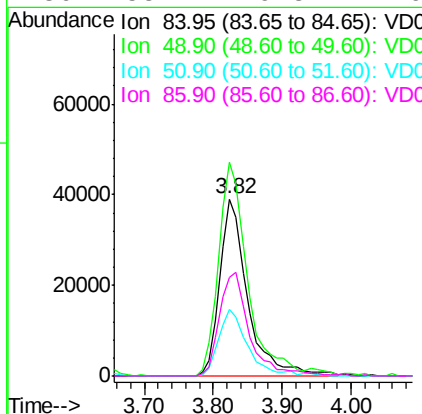
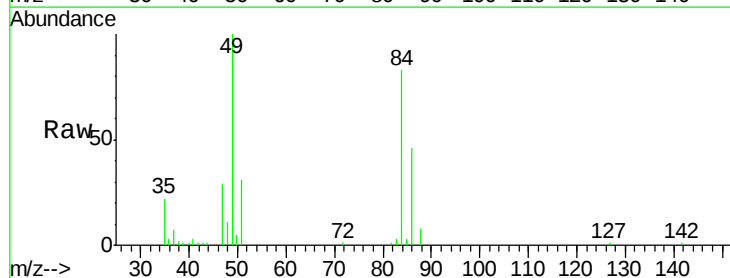
Instrument :
MSVOA_D
ClientSampleId :
VD0513SBS01

Tot Ion: 73 Resp: 229224
Ion Ratio Lower Upper
73 100
57 19.4 16.3 24.5



#20
Methylene Chloride
Concen: 21.356 ug/l
RT: 3.82 min Scan# 244
Delta R.T. 0.03 min
Lab File: VD062297.D
Acq: 13 May 2019 11:38

Tgt Ion: 84 Resp: 110123
Ion Ratio Lower Upper
84 100
49 120.5 94.0 141.0
51 37.6 29.0 43.4
86 55.7 49.8 74.6





#21

trans-1,2-Dichloroethene

Concen: 19.666 ug/l

RT: 4.24 min Scan# 286

Delta R.T. 0.04 min

Lab File: VD062297.D

Acq: 13 May 2019 11:38

Instrument :

MSVOA_D

ClientSampleId :

VD0513SBS01

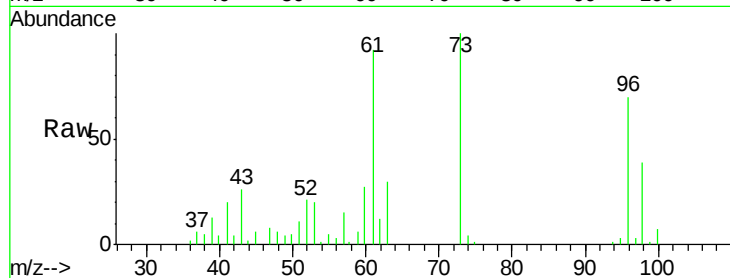
Tot Ion: 96 Resp: 105736

Ion Ratio Lower Upper

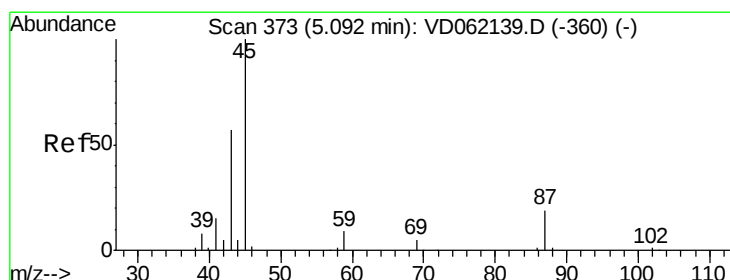
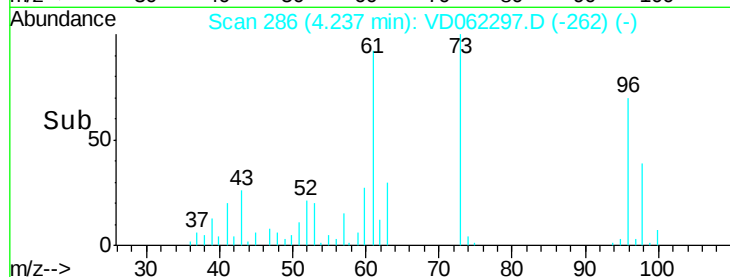
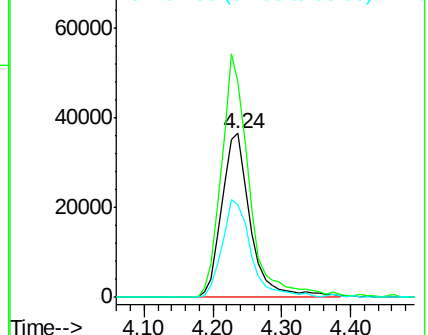
96 100

61 131.3 104.4 156.6

98 56.2 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: 21.362 ug/l

RT: 5.13 min Scan# 377

Delta R.T. 0.04 min

Lab File: VD062297.D

Acq: 13 May 2019 11:38

Tgt Ion: 45 Resp: 319360

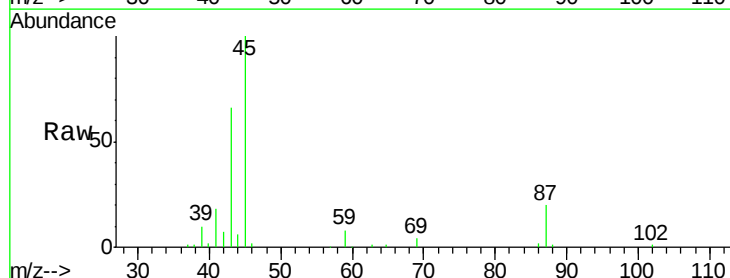
Ion Ratio Lower Upper

45 100

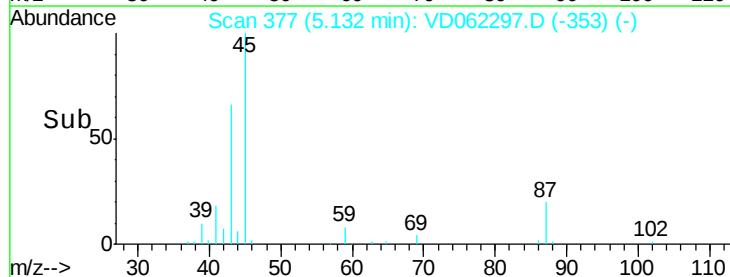
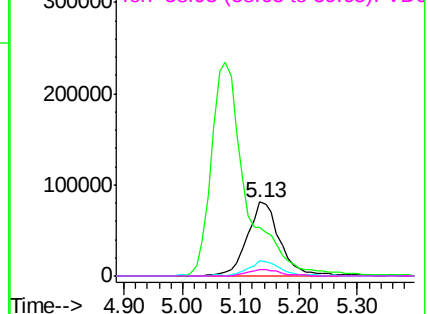
43 66.3 46.2 69.2

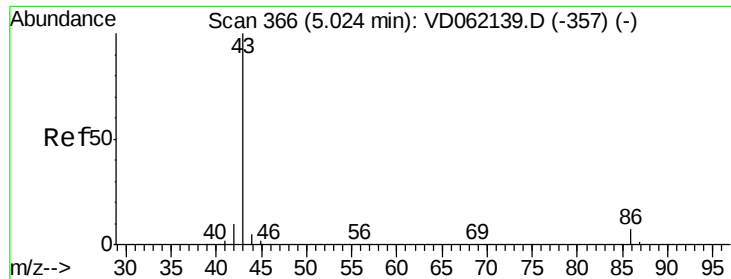
87 20.1 15.9 23.9

59 8.3 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: 120.743 ug/l

RT: 5.07 min Scan# 371

Delta R.T. 0.05 min

Lab File: VD062297.D

Acq: 13 May 2019 11:38

Instrument :

MSVOA_D

ClientSampleId :

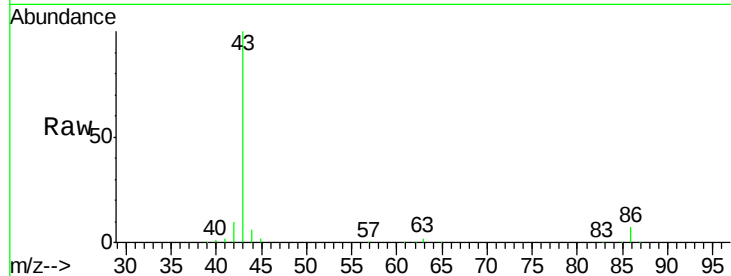
VD0513SBS01

Tot Ion: 43 Resp: 952374

Ion Ratio Lower Upper

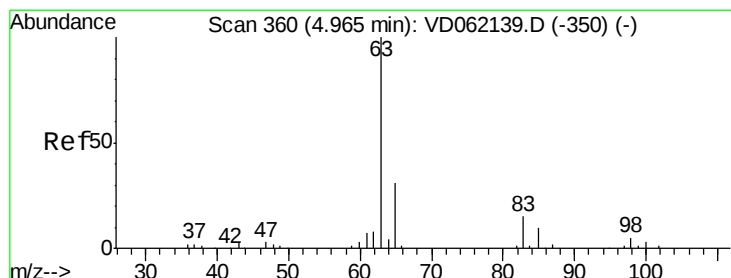
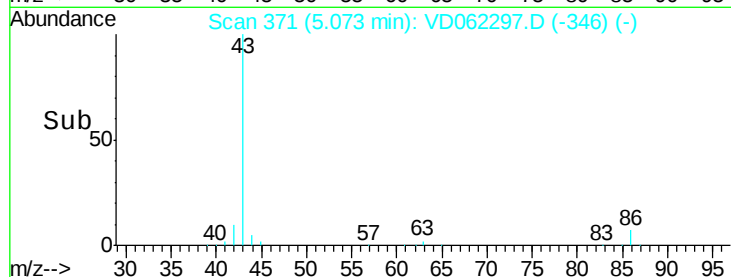
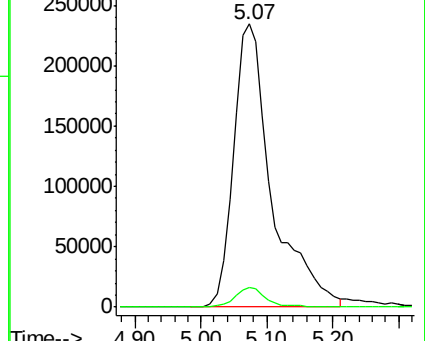
43 100

86 6.9 6.4 9.6



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 86.00 (85.70 to 86.70): VDC



#24

1,1-Dichloroethane

Concen: 22.497 ug/l

RT: 5.00 min Scan# 364

Delta R.T. 0.04 min

Lab File: VD062297.D

Acq: 13 May 2019 11:38

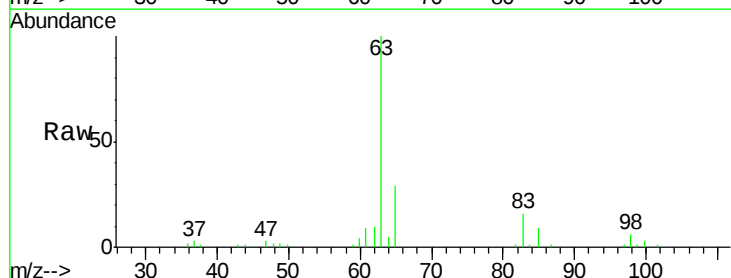
Tgt Ion: 63 Resp: 202892

Ion Ratio Lower Upper

63 100

98 6.4 2.8 8.4

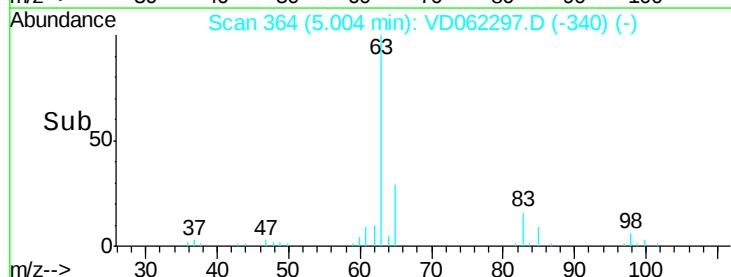
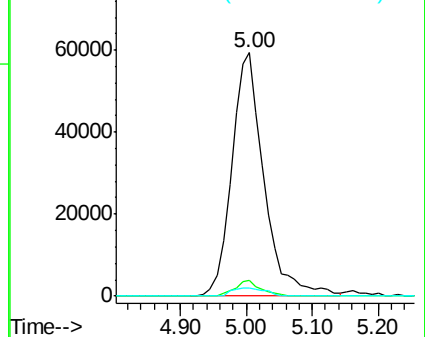
100 3.5 1.8 5.5



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 97.95 (97.65 to 98.65): VDC

Ion 99.95 (99.65 to 100.65): VDC





#25

2-Butanone

Concen: 103.553 ug/l

RT: 6.09 min Scan# 474

Delta R.T. 0.05 min

Lab File: VD062297.D

Acq: 13 May 2019 11:38

Instrument :

MSVOA_D

ClientSampleId :

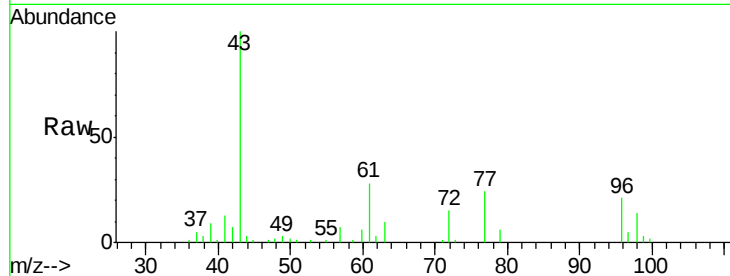
VD0513SBS01

Tot Ion: 43 Resp: 139491

Ion Ratio Lower Upper

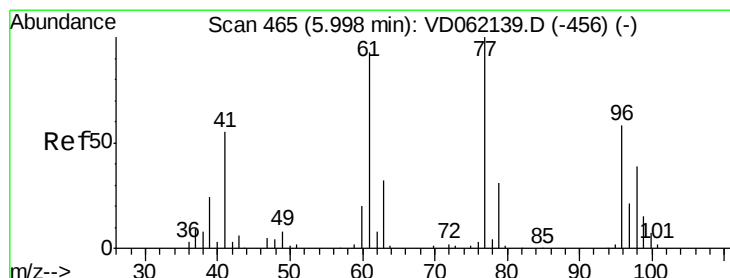
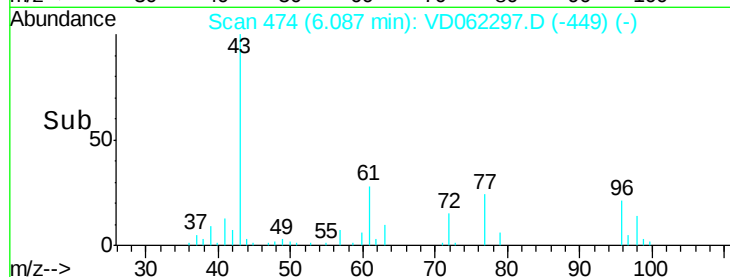
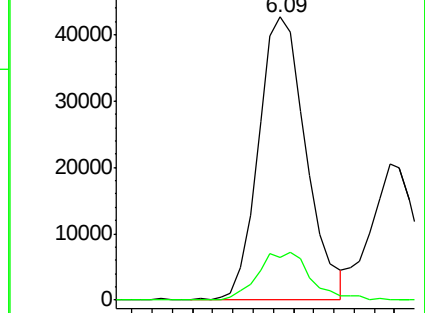
43 100

72 14.9 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: 24.742 ug/l

RT: 6.04 min Scan# 469

Delta R.T. 0.04 min

Lab File: VD062297.D

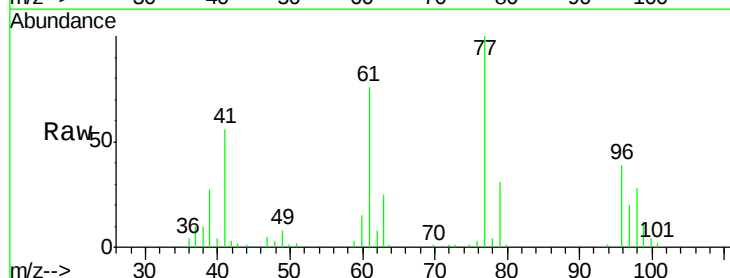
Acq: 13 May 2019 11:38

Tgt Ion: 77 Resp: 222273

Ion Ratio Lower Upper

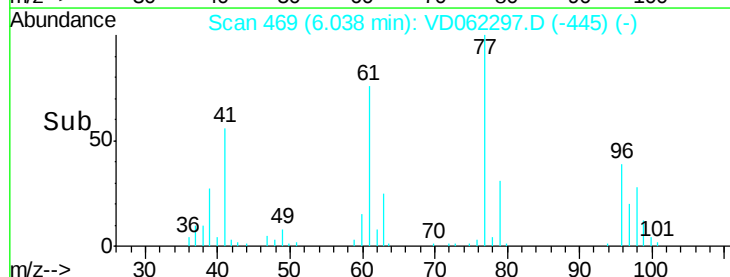
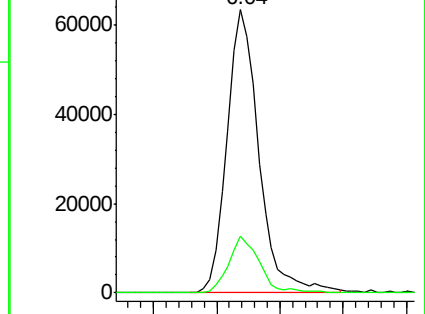
77 100

97 19.9 11.9 35.9



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC



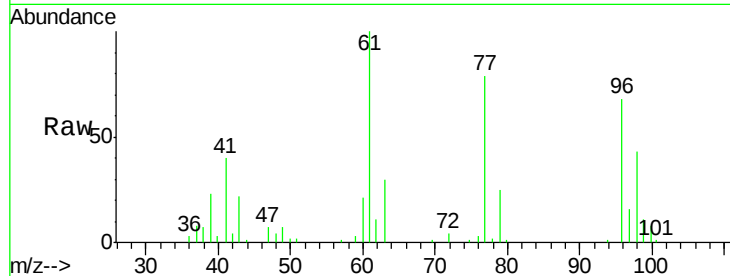


#27

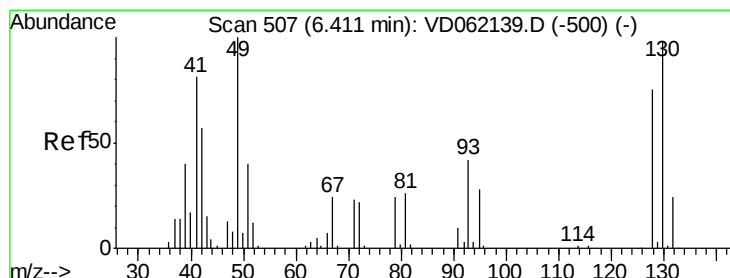
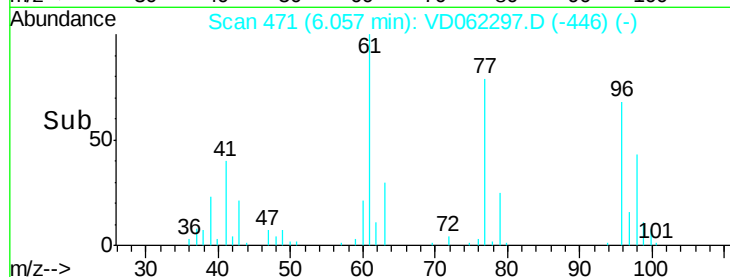
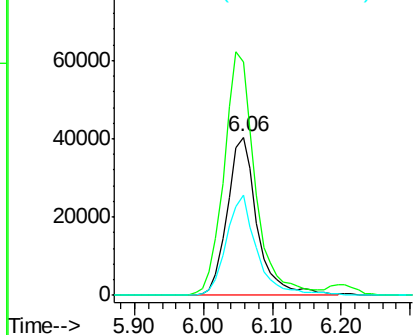
cis-1,2-Dichloroethene
Concen: 20.124 ug/l
RT: 6.06 min Scan# 471
Delta R.T. 0.05 min
Lab File: VD062297.D
Acq: 13 May 2019 11:38

Instrument :
MSVOA_D
ClientSampleId :
VD0513SBS01

Tot Ion: 96 Resp: 121107
Ion Ratio Lower Upper
96 100
61 147.1 0.0 279.8
98 63.1 0.0 136.0



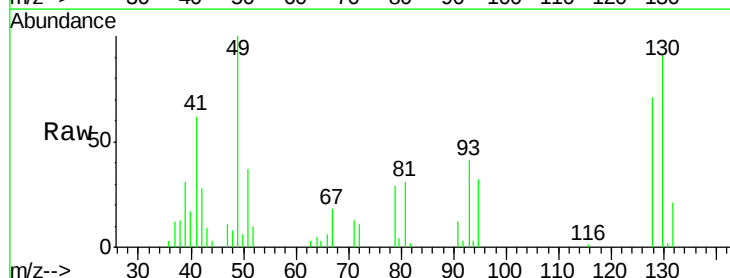
Abundance Ion 95.90 (95.60 to 96.60): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 97.85 (97.55 to 98.55): VDC



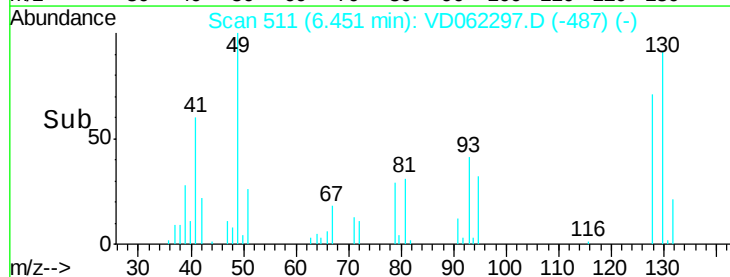
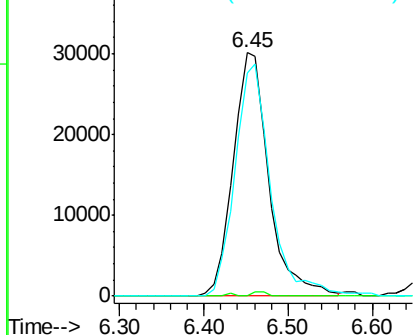
#28

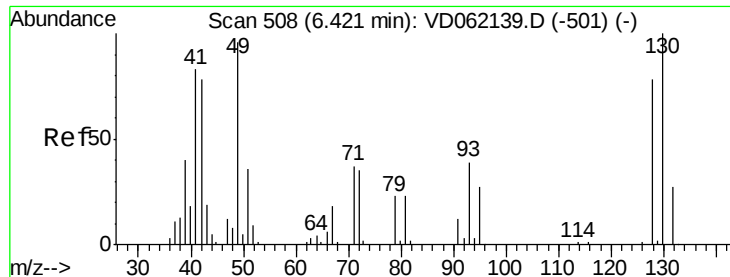
Bromochloromethane
Concen: 24.995 ug/l
RT: 6.45 min Scan# 511
Delta R.T. 0.04 min
Lab File: VD062297.D
Acq: 13 May 2019 11:38

Tgt Ion: 49 Resp: 88689
Ion Ratio Lower Upper
49 100
129 0.0 0.0 6.6
130 91.4 86.7 130.1



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





#29

Tetrahydrofuran

Concen: 100.218 ug/l

RT: 6.47 min Scan# 513

Delta R.T. 0.05 min

Lab File: VD062297.D

Acq: 13 May 2019 11:38

Instrument :

MSVOA_D

ClientSampleId :

VD0513SBS01

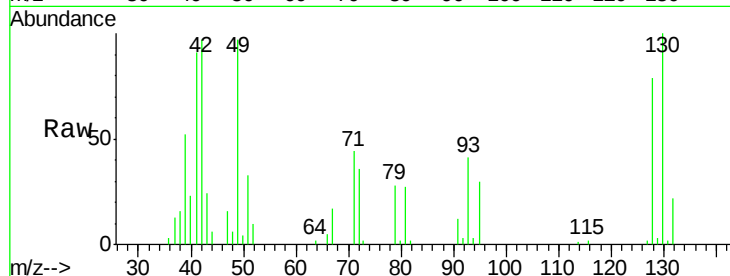
Tot Ion: 42 Resp: 62202

Ion Ratio Lower Upper

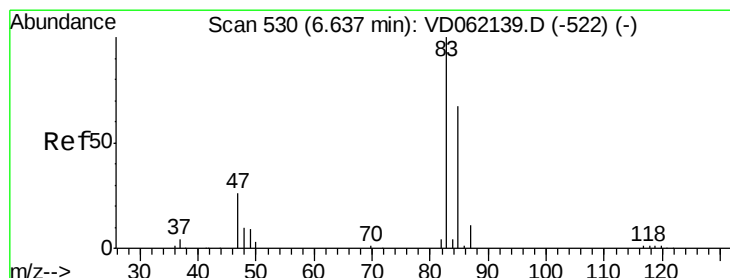
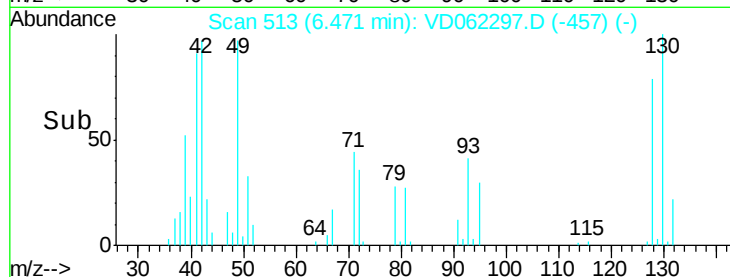
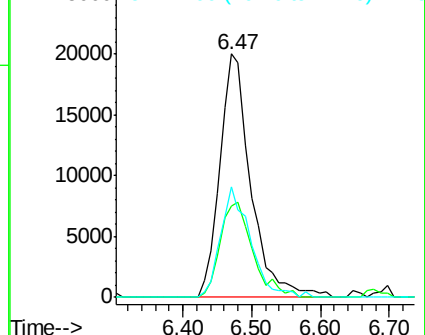
42 100

72 41.2 37.8 56.6

71 43.8 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: 23.567 ug/l

RT: 6.68 min Scan# 534

Delta R.T. 0.04 min

Lab File: VD062297.D

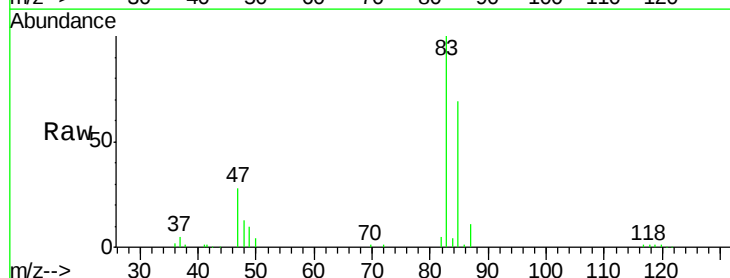
Acq: 13 May 2019 11:38

Tgt Ion: 83 Resp: 256151

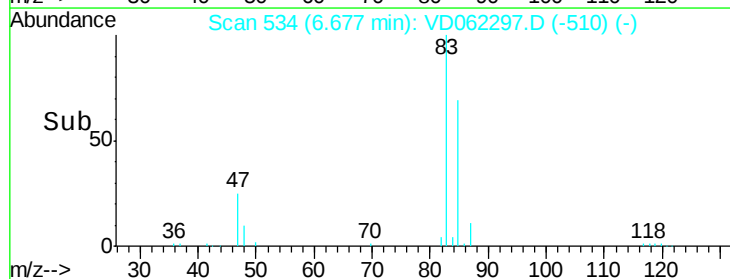
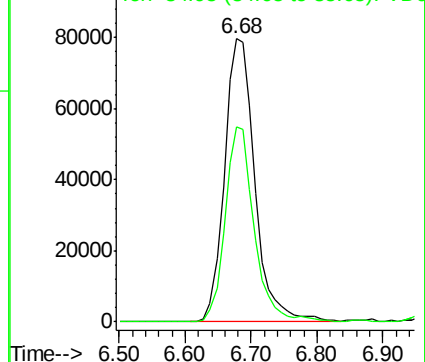
Ion Ratio Lower Upper

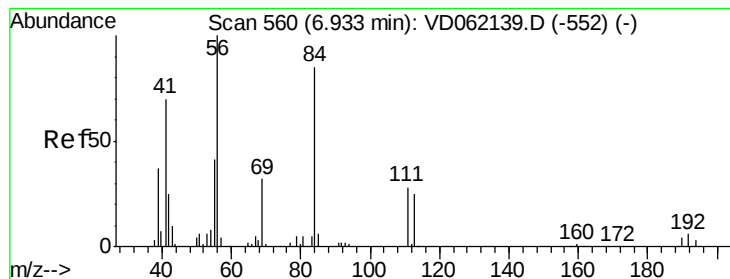
83 100

85 68.9 51.7 77.5



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





#31

Cyclohexane

Concen: 17.626 ug/l

RT: 6.96 min Scan# 563

Delta R.T. 0.03 min

Lab File: VD062297.D

Acq: 13 May 2019 11:38

Instrument :

MSVOA_D

ClientSampleId :

VD0513SBS01

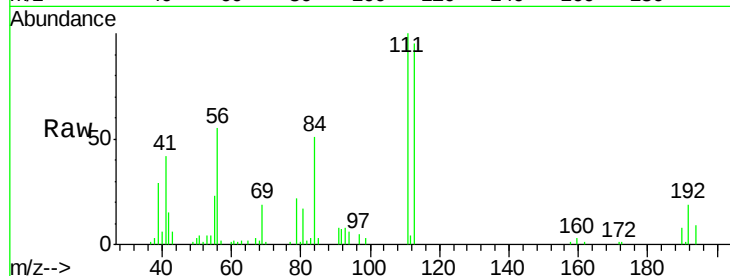
Tot Ion: 56 Resp: 108903

Ion Ratio Lower Upper

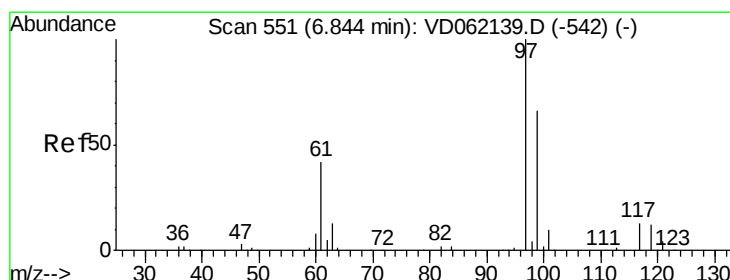
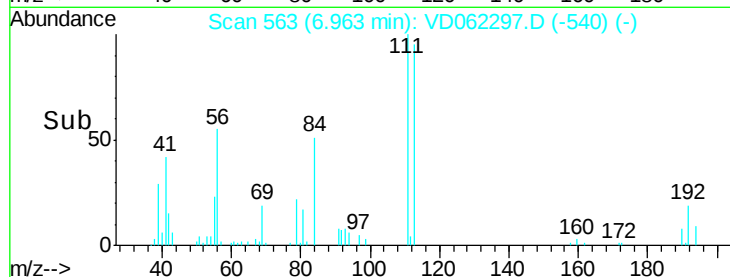
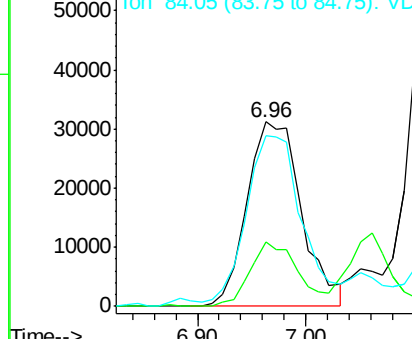
56 100

69 34.7 25.8 38.6

84 92.5 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: 24.235 ug/l

RT: 6.88 min Scan# 555

Delta R.T. 0.04 min

Lab File: VD062297.D

Acq: 13 May 2019 11:38

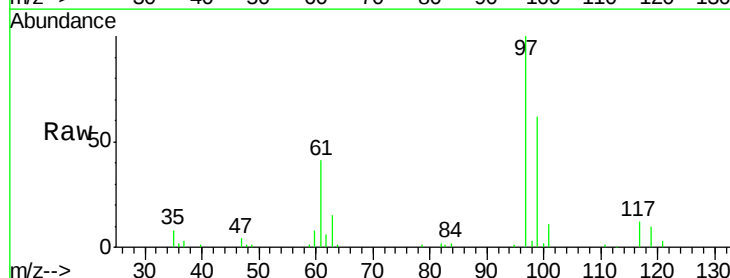
Tgt Ion: 97 Resp: 248973

Ion Ratio Lower Upper

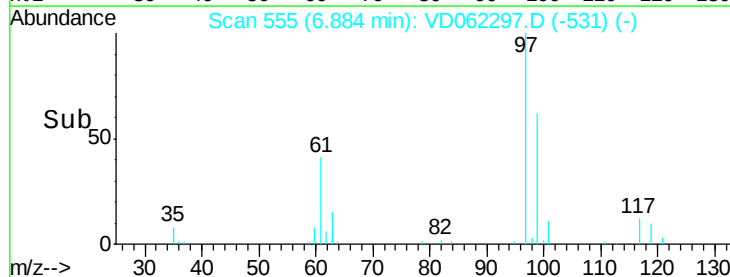
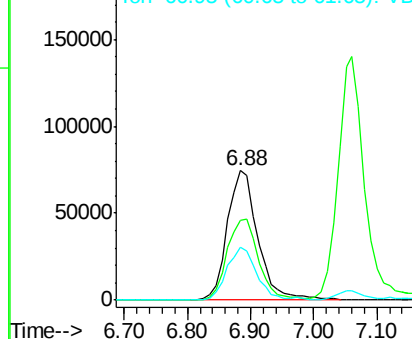
97 100

99 61.9 52.2 78.2

61 40.8 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: 54.577 ug/l

RT: 7.46 min Scan# 614

Delta R.T. 0.04 min

Lab File: VD062297.D

Acq: 13 May 2019 11:38

Instrument :

MSVOA_D

ClientSampleId :

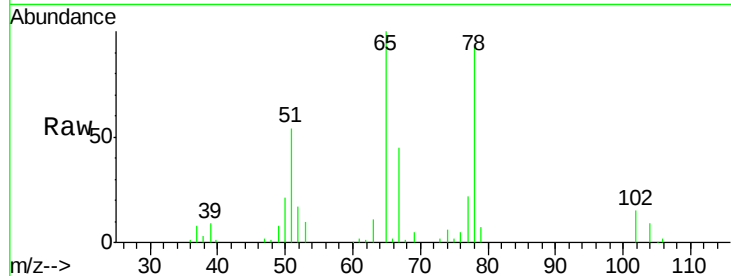
VD0513SBS01

Tot Ion: 65 Resp: 321397

Ion Ratio Lower Upper

65 100

67 45.0 0.0 98.0



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

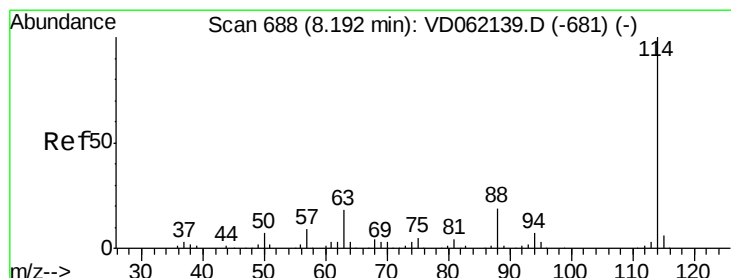
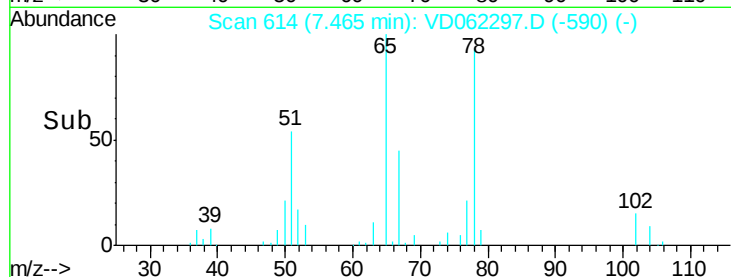
7.46

100000

50000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.23 min Scan# 692

Delta R.T. 0.04 min

Lab File: VD062297.D

Acq: 13 May 2019 11:38

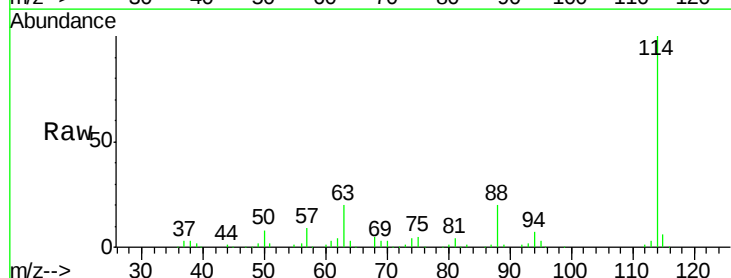
Tgt Ion: 114 Resp: 857318

Ion Ratio Lower Upper

114 100

63 19.7 0.0 32.4

88 19.6 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

8.23

400000

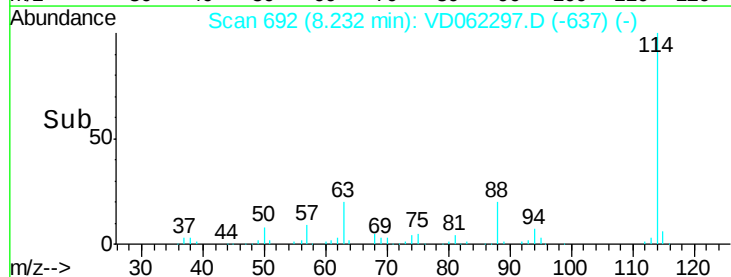
300000

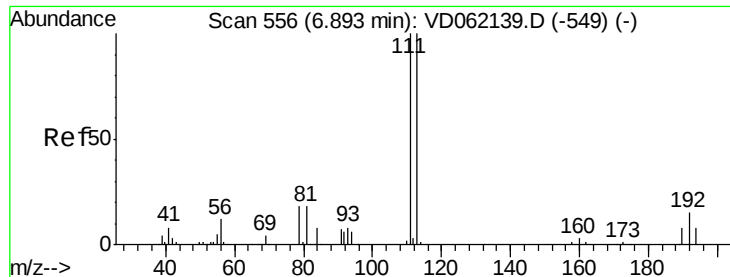
200000

100000

0

Time-->

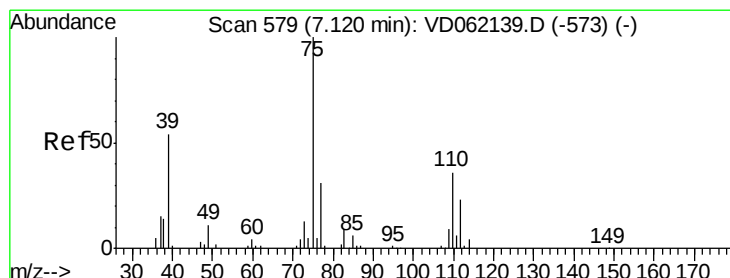
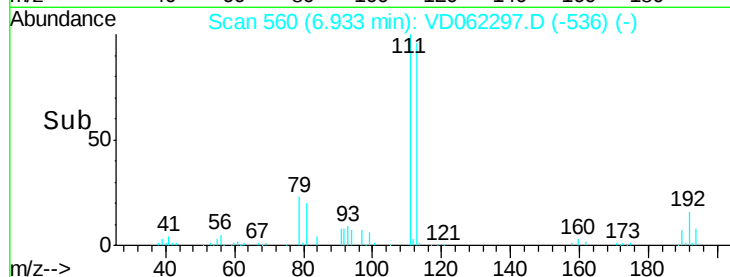
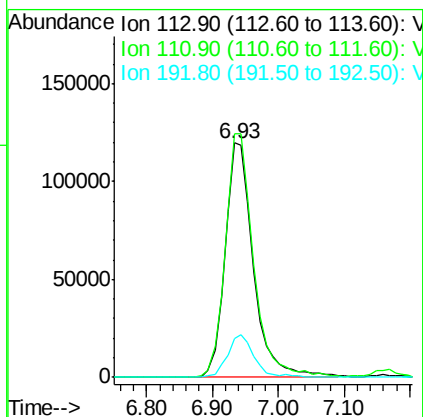
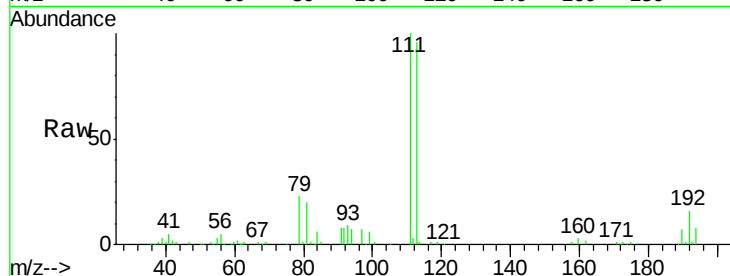




#35
 Dibromofluoromethane
 Concen: 50.485 ug/l
 RT: 6.93 min Scan# 560
 Delta R.T. 0.04 min
 Lab File: VD062297.D
 Acq: 13 May 2019 11:38

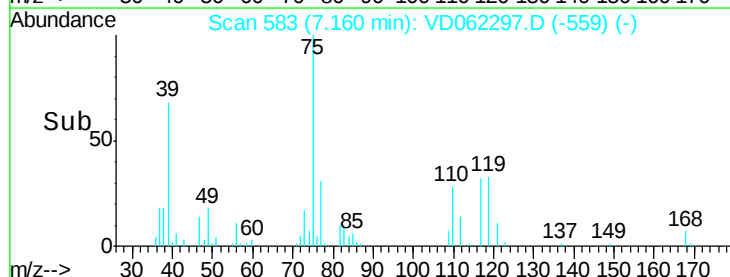
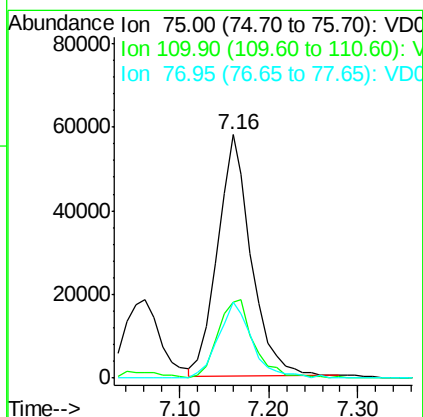
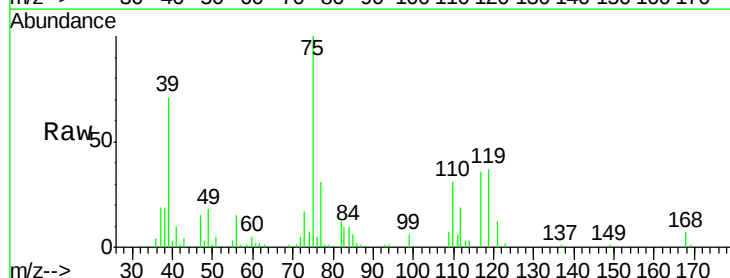
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0513SBS01

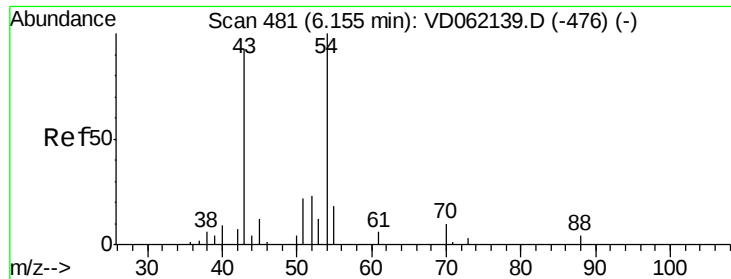
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.7	78.5	117.7
192	16.6	13.0	19.4



#36
 1,1-Dichloropropene
 Concen: 21.768 ug/l
 RT: 7.16 min Scan# 583
 Delta R.T. 0.04 min
 Lab File: VD062297.D
 Acq: 13 May 2019 11:38

Tgt Ion	Ratio	Lower	Upper
75	100		
110	31.3	19.1	57.1
77	31.0	25.6	38.4

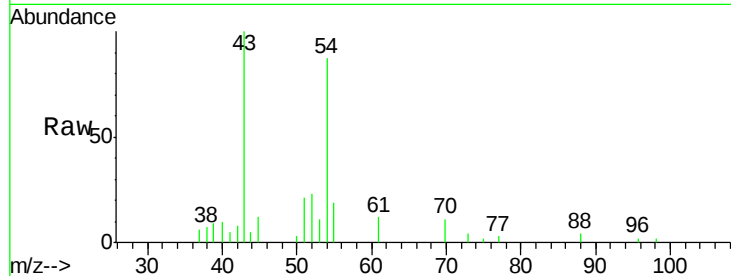




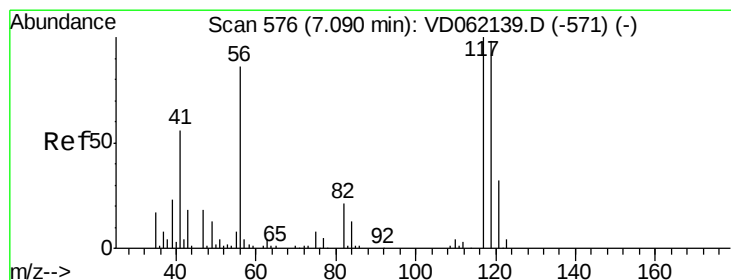
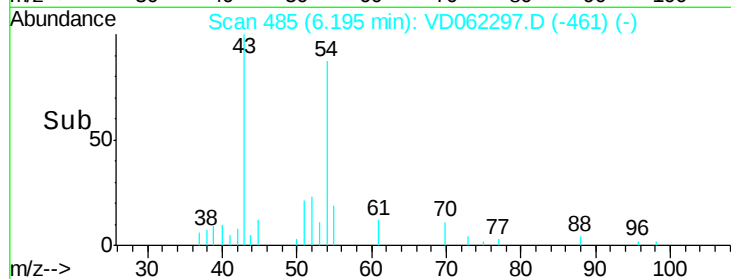
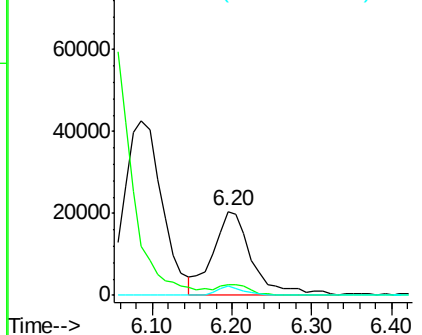
#37
Ethyl Acetate
Concen: 23.552 ug/l
RT: 6.20 min Scan# 485
Delta R.T. 0.04 min
Lab File: VD062297.D
Acq: 13 May 2019 11:38

Instrument :
MSVOA_D
ClientSampleId :
VD0513SBS01

Tot Ion: 43 Resp: 70208
Ion Ratio Lower Upper
43 100
61 12.5 14.7 22.1#
70 10.6 7.8 11.6

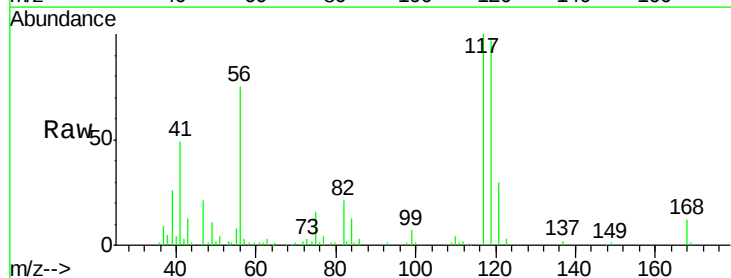


Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 70.00 (69.70 to 70.70): VDC

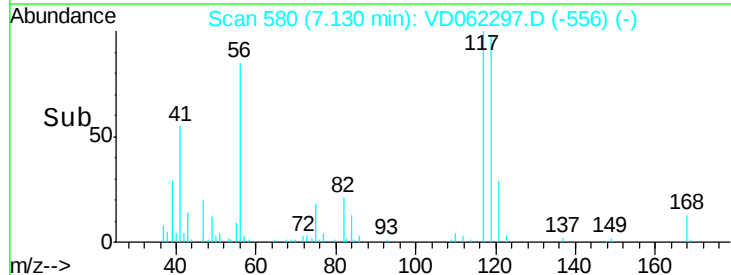
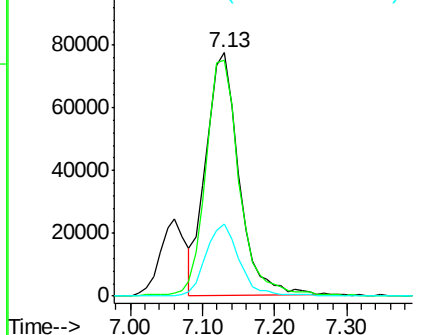


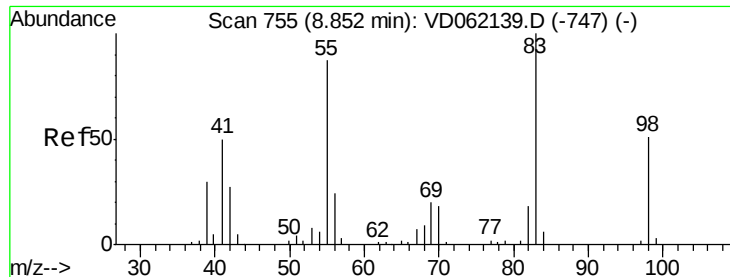
#38
Carbon Tetrachloride
Concen: 25.106 ug/l
RT: 7.13 min Scan# 580
Delta R.T. 0.04 min
Lab File: VD062297.D
Acq: 13 May 2019 11:38

Tgt Ion: 117 Resp: 244256
Ion Ratio Lower Upper
117 100
119 96.9 75.8 113.8
121 29.8 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

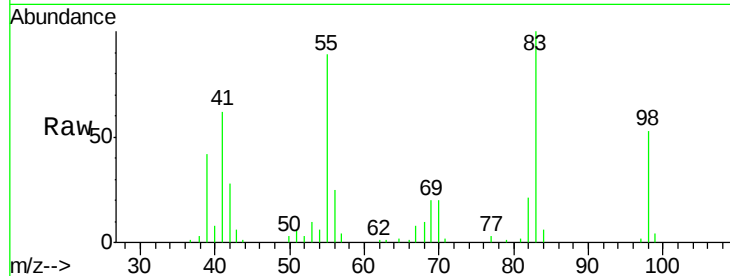




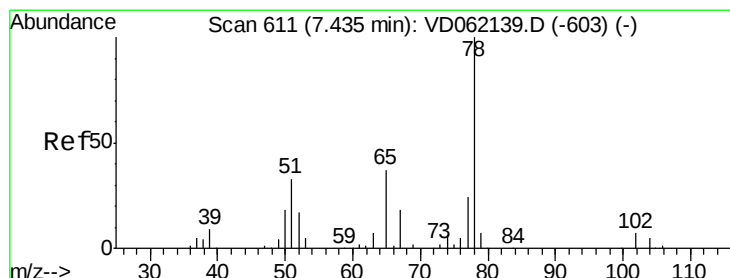
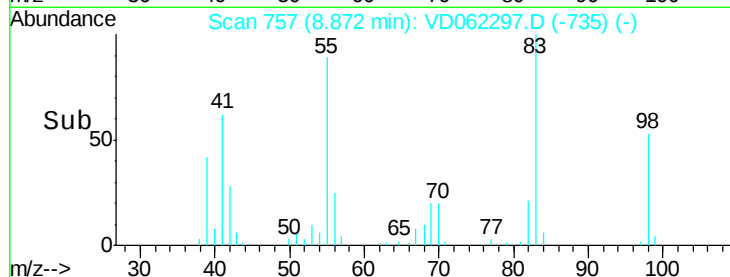
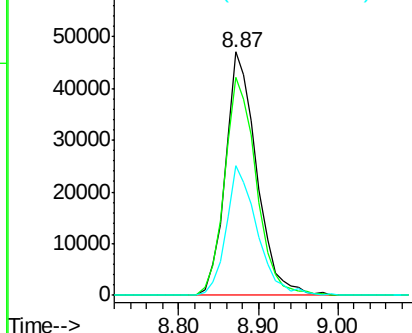
#39
Methvlcvclohexane
Concen: 19.179 ug/l
RT: 8.87 min Scan# 757
Delta R.T. 0.02 min
Lab File: VD062297.D
Acq: 13 May 2019 11:38

Instrument :
MSVOA_D
ClientSampleId :
VD0513SBS01

Tot Ion: 83 Resp: 129168
Ion Ratio Lower Upper
83 100
55 89.3 68.2 102.4
98 53.0 38.2 57.4

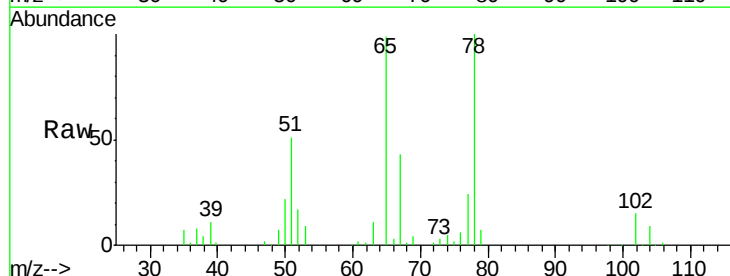


Abundance Ion 83.05 (82.75 to 83.75): VDC
Ion 55.00 (54.70 to 55.70): VDC
Ion 98.05 (97.75 to 98.75): VDC

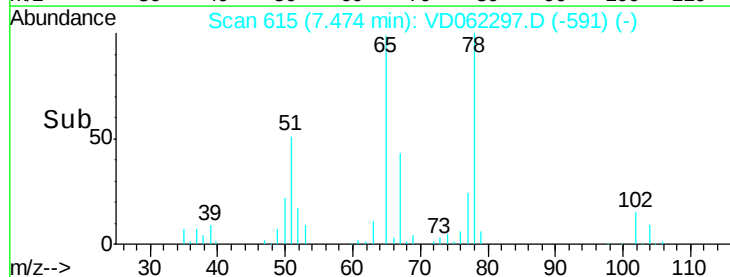
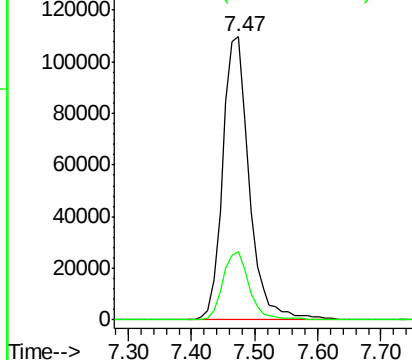


#40
Benzene
Concen: 20.150 ug/l
RT: 7.47 min Scan# 615
Delta R.T. 0.04 min
Lab File: VD062297.D
Acq: 13 May 2019 11:38

Tgt Ion: 78 Resp: 319839
Ion Ratio Lower Upper
78 100
77 24.2 19.7 29.5



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

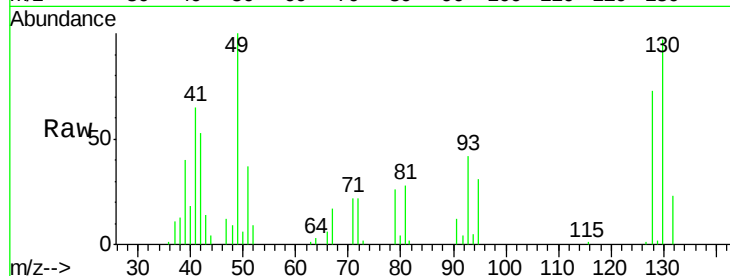




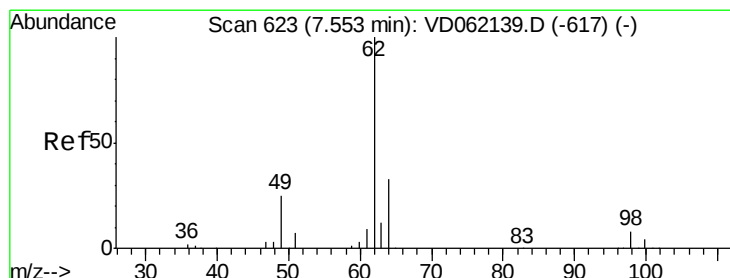
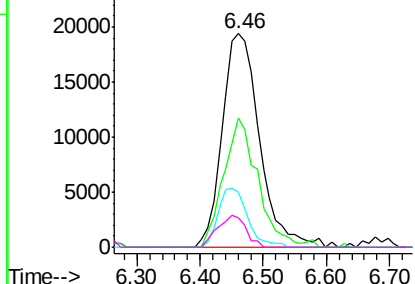
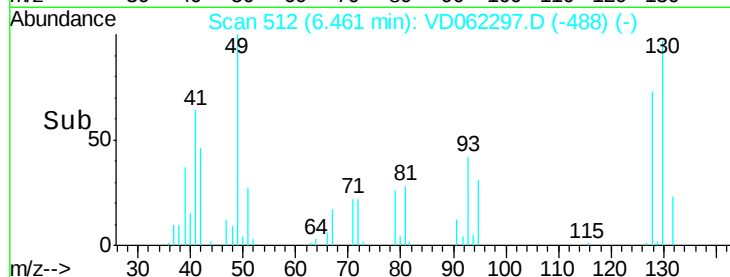
#41
Methacrylonitrile
Concen: 21.858 ug/l
RT: 6.46 min Scan# 512
Delta R.T. 0.04 min
Lab File: VD062297.D
Acq: 13 May 2019 11:38

Instrument :
MSVOA_D
ClientSampleId :
VD0513SBS01

Tot Ion: 41 Resp: 79627
Ion Ratio Lower Upper
41 100
39 60.6 34.1 51.1#
67 25.5 23.8 35.6
52 13.7 8.8 13.2#

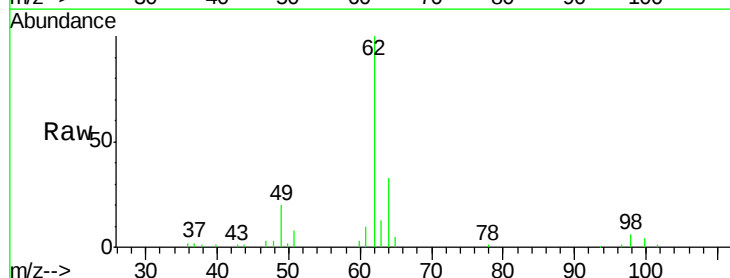


Abundance Ion 40.95 (40.65 to 41.65): VDC
Ion 38.95 (38.65 to 39.65): VDC
Ion 67.00 (66.70 to 67.70): VDC
Ion 52.00 (51.70 to 52.70): VDC

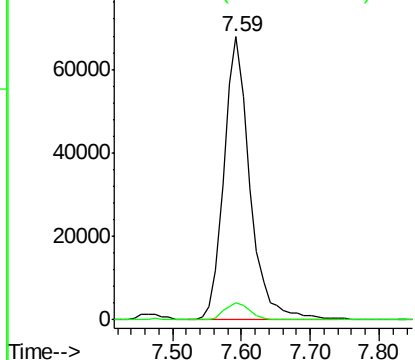
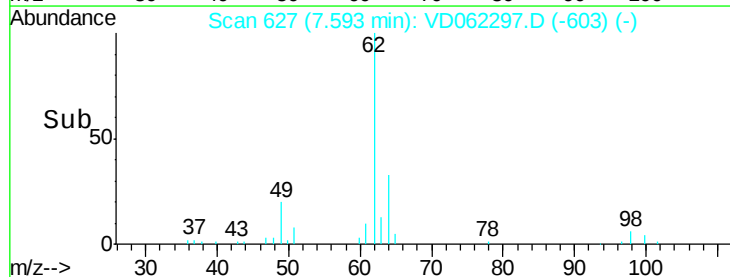


#42
1,2-Dichloroethane
Concen: 26.343 ug/l
RT: 7.59 min Scan# 627
Delta R.T. 0.04 min
Lab File: VD062297.D
Acq: 13 May 2019 11:38

Tgt Ion: 62 Resp: 177157
Ion Ratio Lower Upper
62 100
98 6.1 0.0 17.8



Abundance Ion 61.95 (61.65 to 62.65): VDC
Ion 97.85 (97.55 to 98.55): VDC



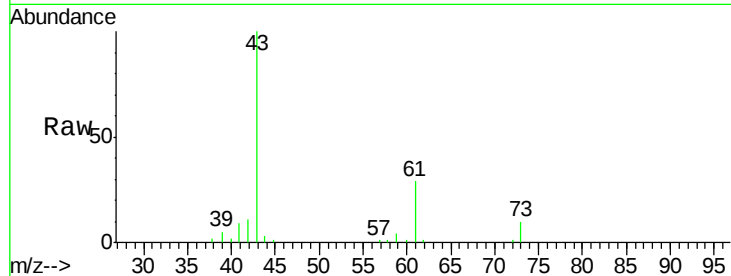


#43

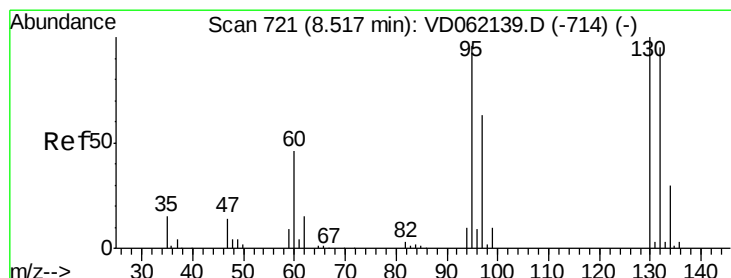
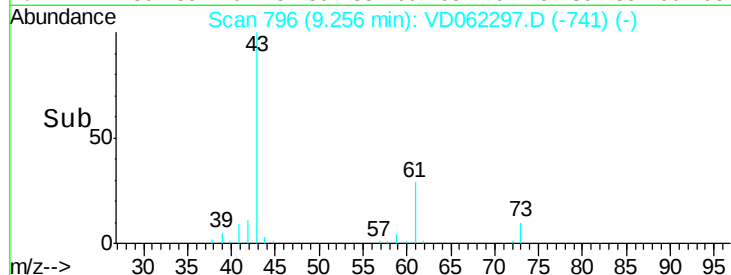
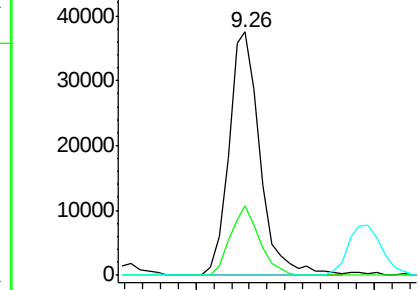
Isopropyl Acetate
 Concen: 21.713 ug/l
 RT: 9.26 min Scan# 796
 Delta R.T. 0.04 min
 Lab File: VD062297.D
 Acq: 13 May 2019 11:38

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0513SBS01

Tot Ion: 43 Resp: 91798
 Ion Ratio Lower Upper
 43 100
 61 28.5 25.1 37.7
 87 0.0 0.0 0.0



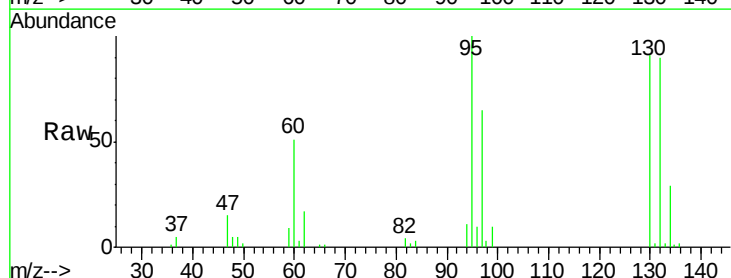
Abundance Ion 42.95 (42.65 to 43.65): VDC
 Ion 60.95 (60.65 to 61.65): VDC
 Ion 87.00 (86.70 to 87.70): VDC



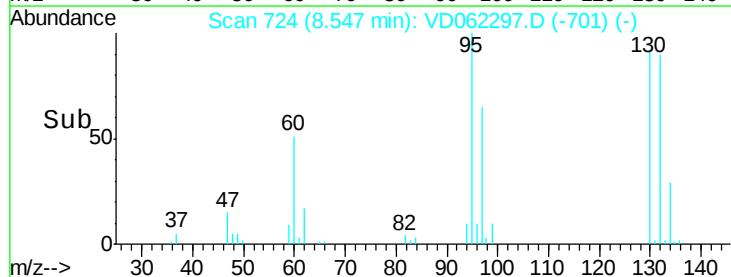
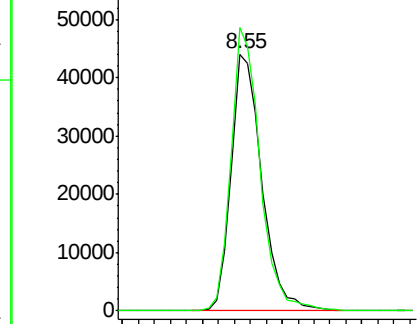
#44

Trichloroethene
 Concen: 19.630 ug/l
 RT: 8.55 min Scan# 724
 Delta R.T. 0.03 min
 Lab File: VD062297.D
 Acq: 13 May 2019 11:38

Tgt Ion: 130 Resp: 118732
 Ion Ratio Lower Upper
 130 100
 95 110.2 0.0 174.0



Abundance Ion 129.80 (129.50 to 130.50): VDC
 Ion 94.90 (94.60 to 95.60): VDC





#45

1,2-Dichloropropane

Concen: 20.014 ug/l

RT: 8.95 min Scan# 765

Delta R.T. 0.03 min

Lab File: VD062297.D

Acq: 13 May 2019 11:38

Instrument :

MSVOA_D

ClientSampleId :

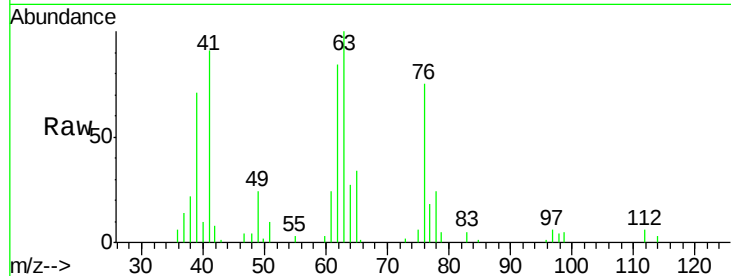
VD0513SBS01

Tot Ion: 63 Resp: 78578

Ion Ratio Lower Upper

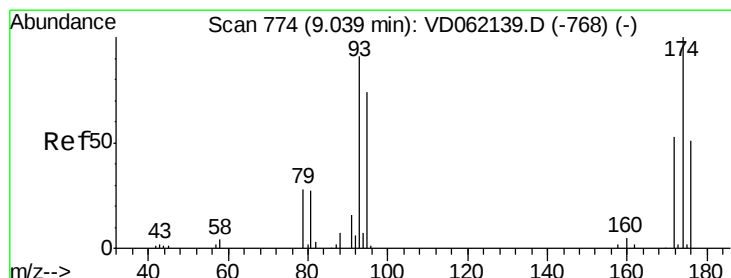
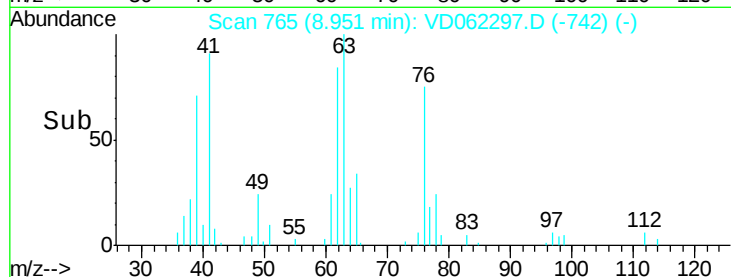
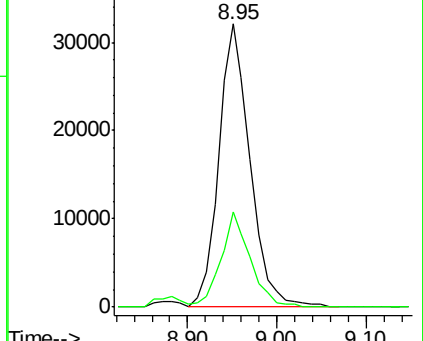
63 100

65 33.7 23.8 35.6



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 64.95 (64.65 to 65.65): VDC



#46

Dibromomethane

Concen: 22.691 ug/l

RT: 9.08 min Scan# 778

Delta R.T. 0.04 min

Lab File: VD062297.D

Acq: 13 May 2019 11:38

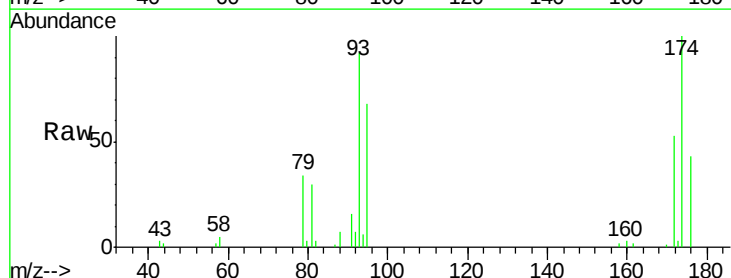
Tgt Ion: 93 Resp: 72444

Ion Ratio Lower Upper

93 100

95 74.3 64.8 97.2

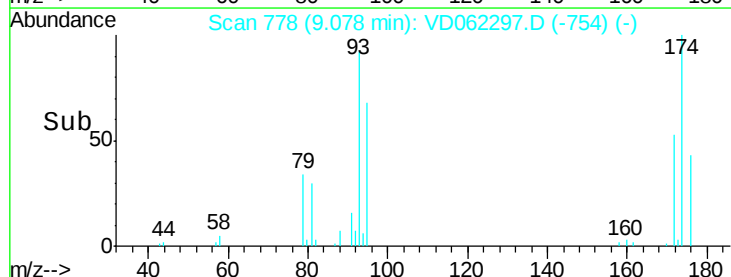
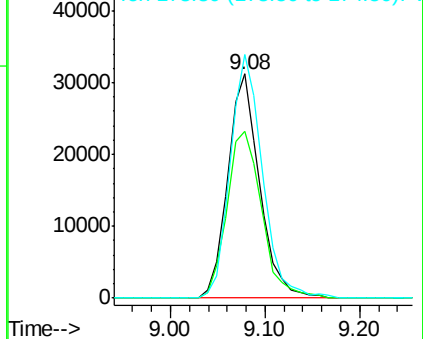
174 108.6 79.3 118.9



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): VDC





#47

Bromodichloromethane

Concen: 24.708 ug/l

RT: 9.39 min Scan# 810

Delta R.T. 0.04 min

Lab File: VD062297.D

Acq: 13 May 2019 11:38

Instrument :

MSVOA_D

ClientSampleId :

VD0513SBS01

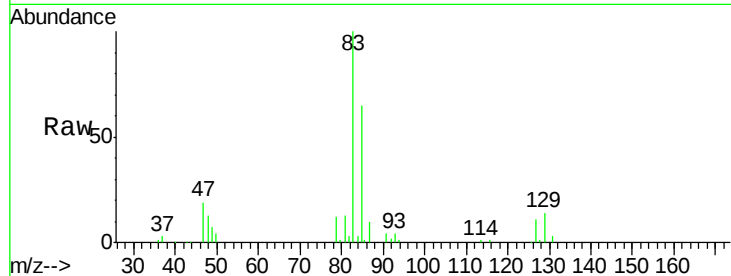
Tot Ion: 83 Resp: 192955

Ion Ratio Lower Upper

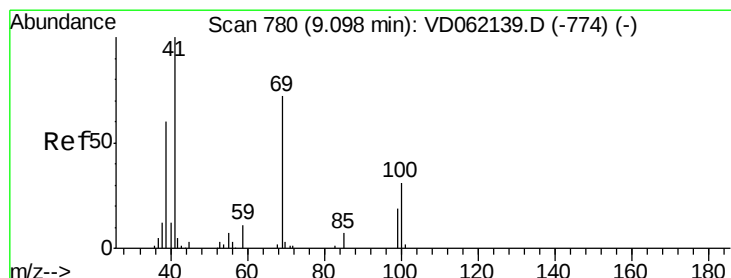
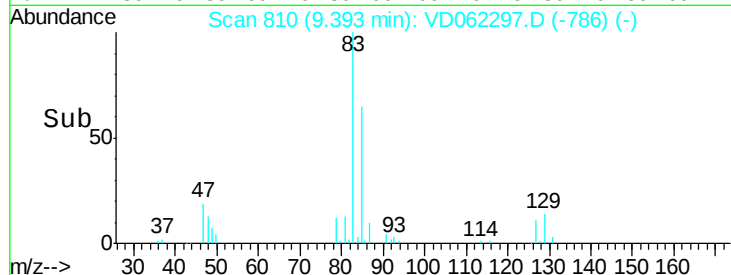
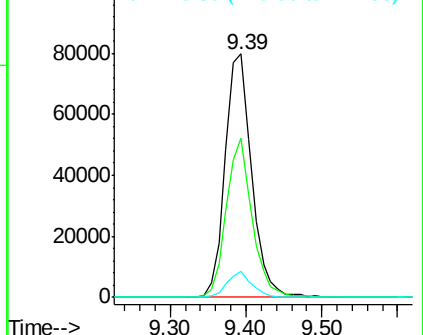
83 100

85 66.1 50.9 76.3

127 10.6 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: 23.813 ug/l

RT: 9.13 min Scan# 783

Delta R.T. 0.03 min

Lab File: VD062297.D

Acq: 13 May 2019 11:38

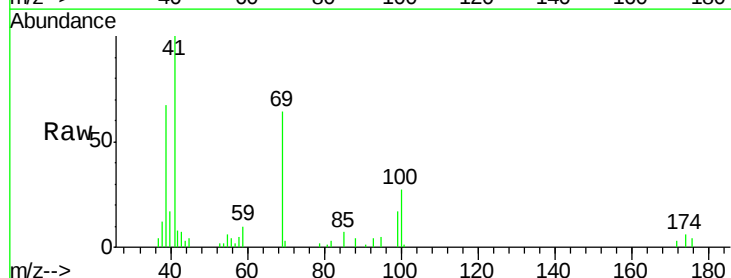
Tgt Ion: 41 Resp: 62012

Ion Ratio Lower Upper

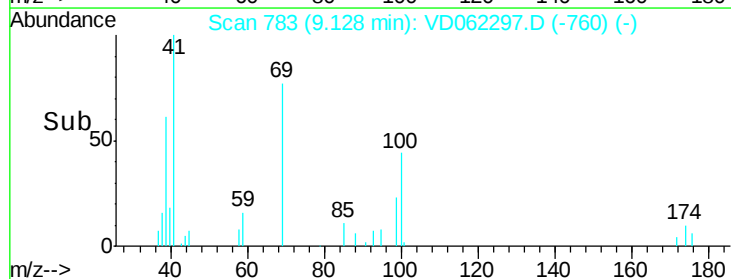
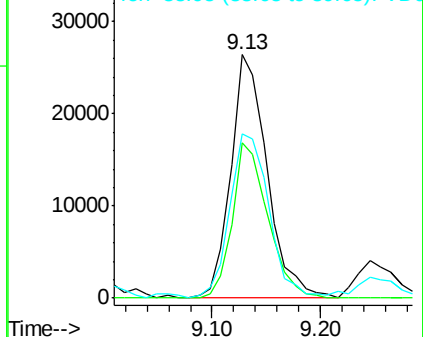
41 100

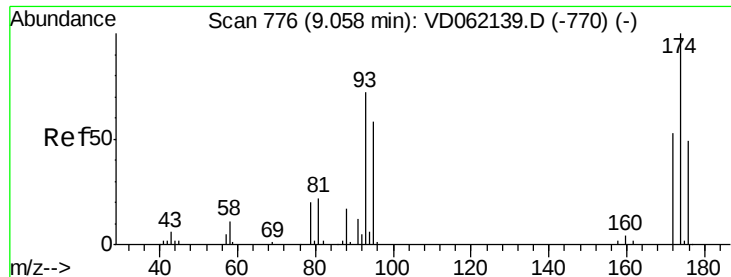
69 63.9 64.2 96.2#

39 67.3 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

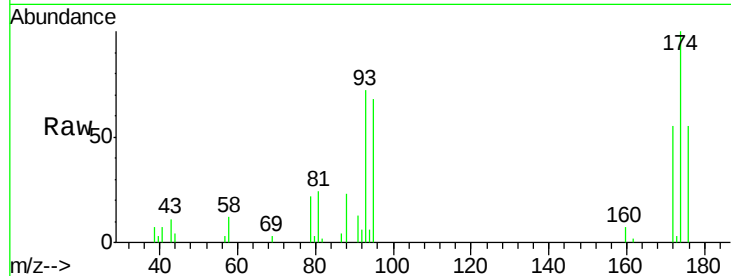




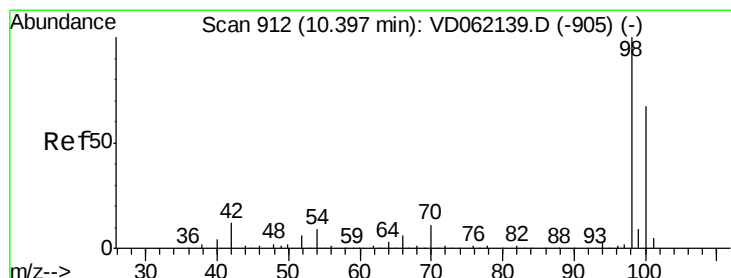
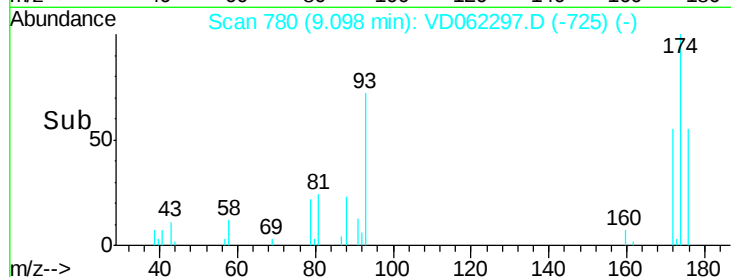
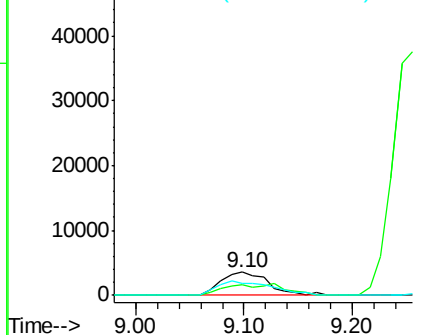
#49
1,4-Dioxane
Concen: 380.540 ug/l
RT: 9.10 min Scan# 780
Delta R.T. 0.04 min
Lab File: VD062297.D
Acq: 13 May 2019 11:38

Instrument :
MSVOA_D
ClientSampleId :
VD0513SBS01

Tot Ion: 88 Resp: 10692
Ion Ratio Lower Upper
88 100
43 46.2 23.4 35.0#
58 52.9 44.0 66.0

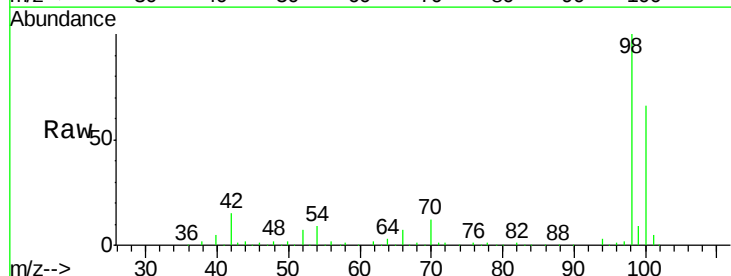


Abundance Ion 88.00 (87.70 to 88.70): VDC
Ion 43.05 (42.75 to 43.75): VDC
Ion 57.95 (57.65 to 58.65): VDC

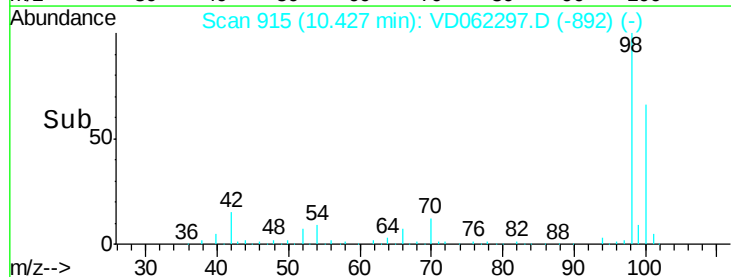
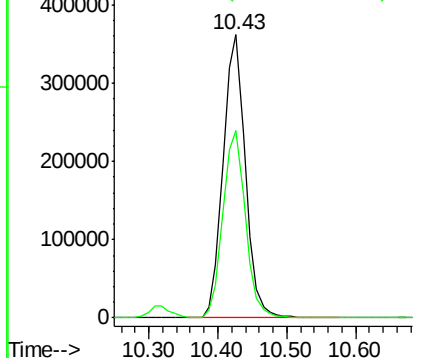


#50
Toluene-d8
Concen: 47.423 ug/l
RT: 10.43 min Scan# 915
Delta R.T. 0.03 min
Lab File: VD062297.D
Acq: 13 May 2019 11:38

Tgt Ion: 98 Resp: 813334
Ion Ratio Lower Upper
98 100
100 66.4 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: 111.343 ug/l

RT: 10.31 min Scan# 903

Delta R.T. 0.03 min

Lab File: VD062297.D

Acq: 13 May 2019 11:38

Instrument :

MSVOA_D

ClientSampleId :

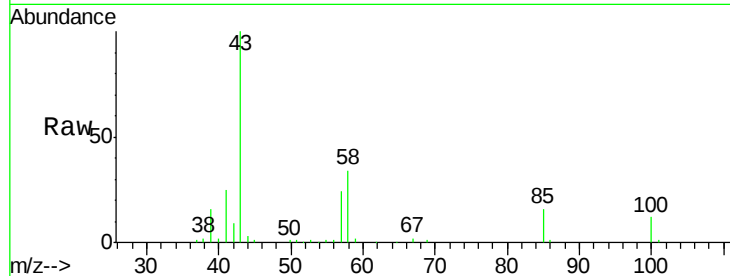
VD0513SBS01

Tot Ion: 43 Resp: 302586

Ion Ratio Lower Upper

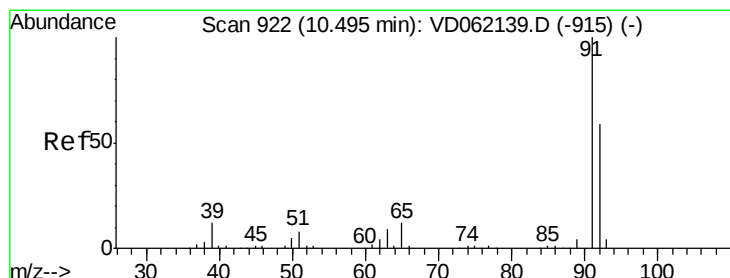
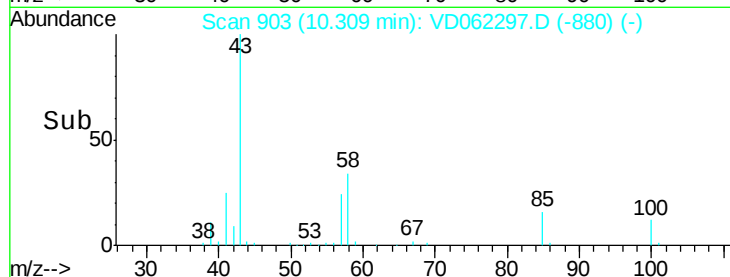
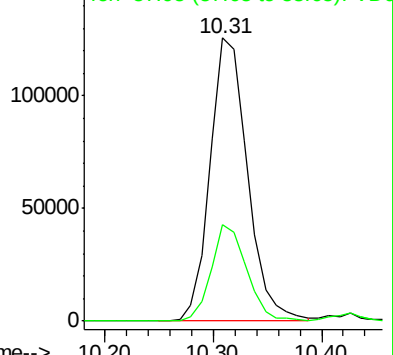
43 100

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



#52

Toluene

Concen: 21.611 ug/l

RT: 10.53 min Scan# 925

Delta R.T. 0.03 min

Lab File: VD062297.D

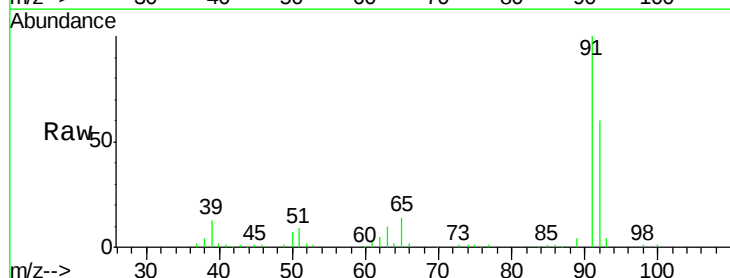
Acq: 13 May 2019 11:38

Tgt Ion: 92 Resp: 223187

Ion Ratio Lower Upper

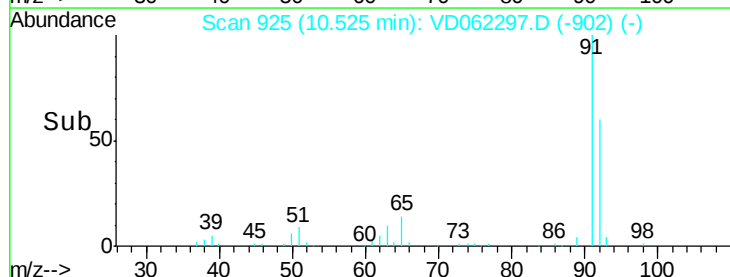
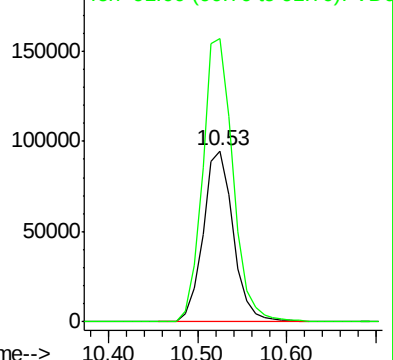
92 100

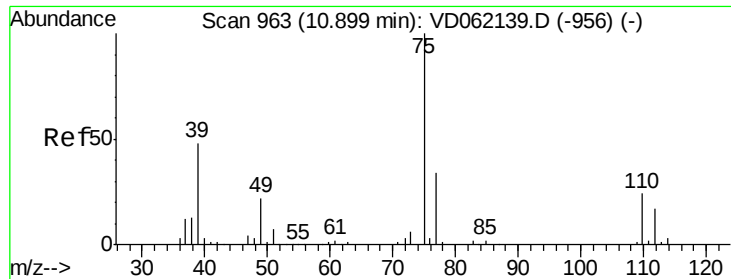
91 165.4 136.6 204.8



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC





#53

t-1,3-Dichloropropene

Concen: 23.375 ug/l

RT: 10.93 min Scan# 966

Delta R.T. 0.03 min

Lab File: VD062297.D

Acq: 13 May 2019 11:38

Instrument :

MSVOA_D

ClientSampleId :

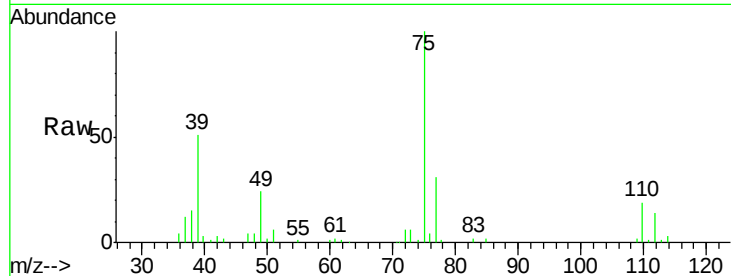
VD0513SBS01

Tot Ion: 75 Resp: 157770

Ion Ratio Lower Upper

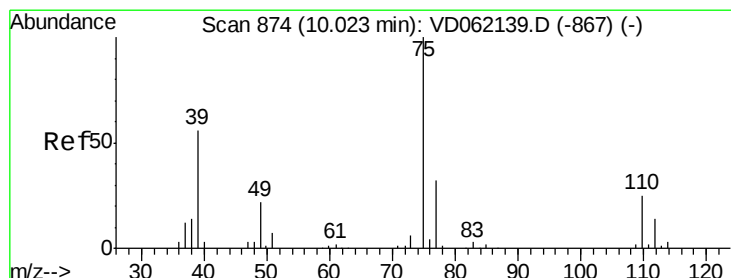
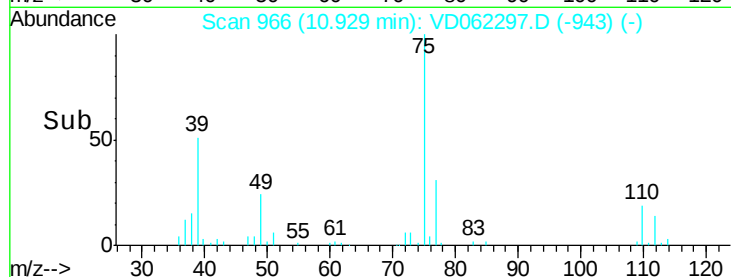
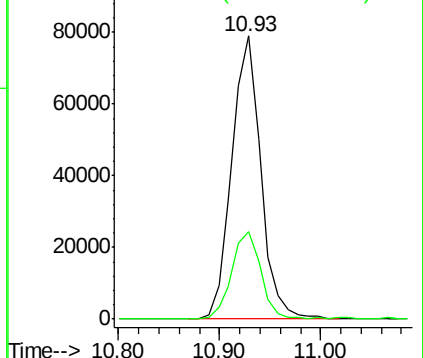
75 100

77 30.9 25.8 38.8



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC



#54

cis-1,3-Dichloropropene

Concen: 22.818 ug/l

RT: 10.05 min Scan# 877

Delta R.T. 0.03 min

Lab File: VD062297.D

Acq: 13 May 2019 11:38

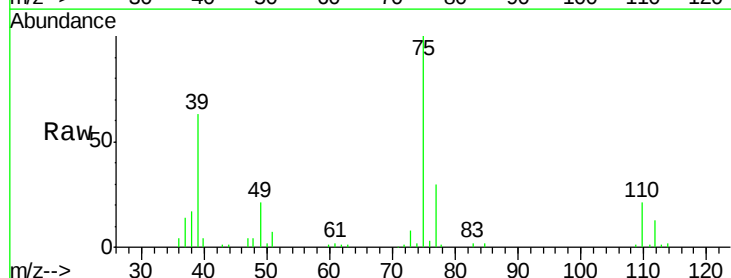
Tgt Ion: 75 Resp: 168017

Ion Ratio Lower Upper

75 100

77 29.7 25.5 38.3

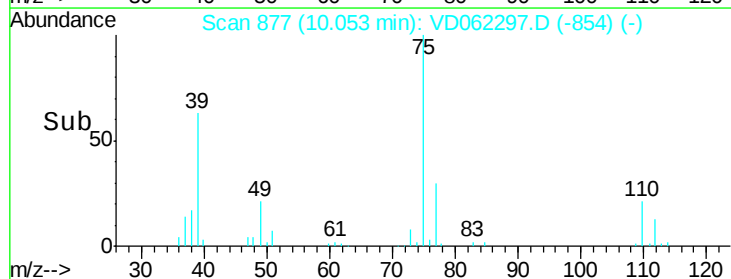
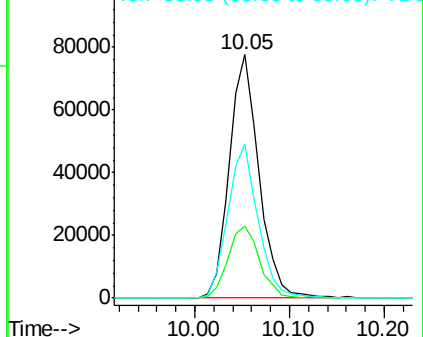
39 63.3 39.4 59.2#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC

Ion 38.95 (38.65 to 39.65): VDC

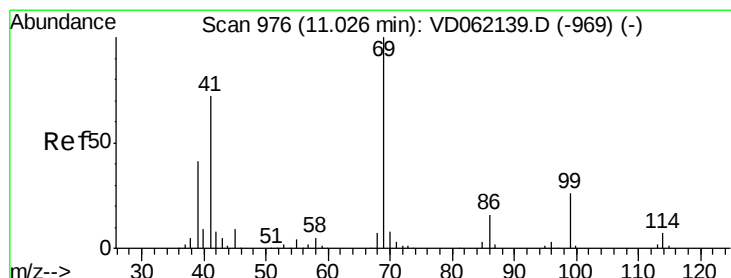
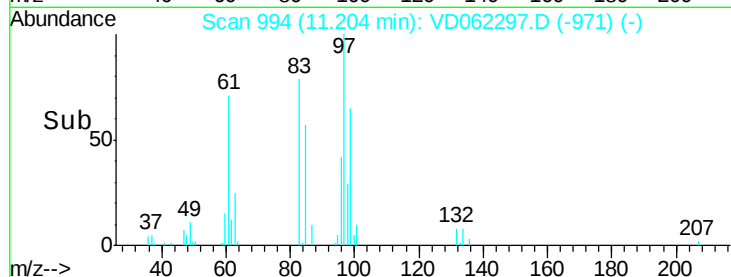
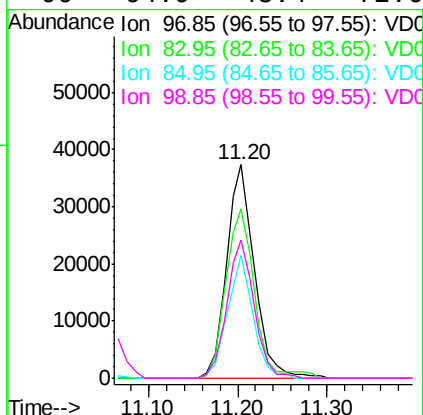
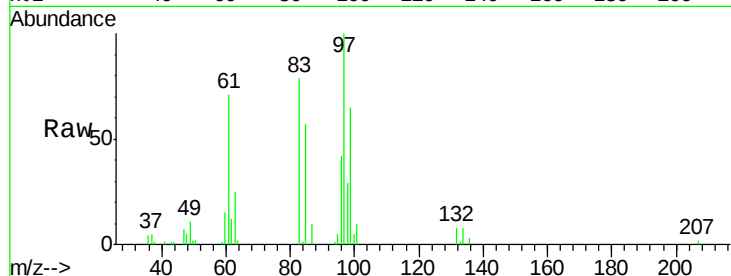




#55
 1,1,2-Trichloroethane
 Concen: 22.409 ug/l
 RT: 11.20 min Scan# 994
 Delta R.T. 0.03 min
 Lab File: VD062297.D
 Acq: 13 May 2019 11:38

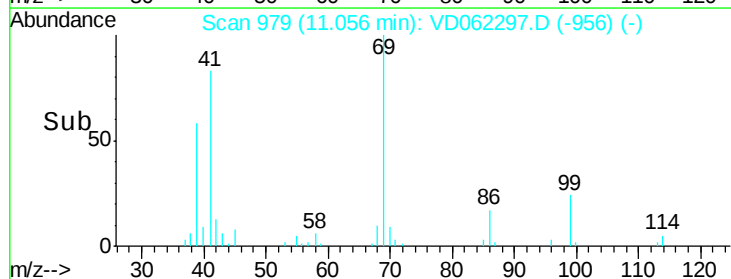
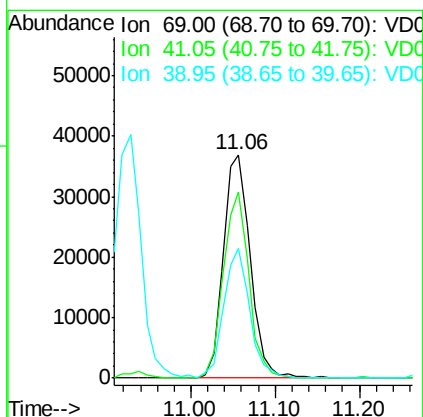
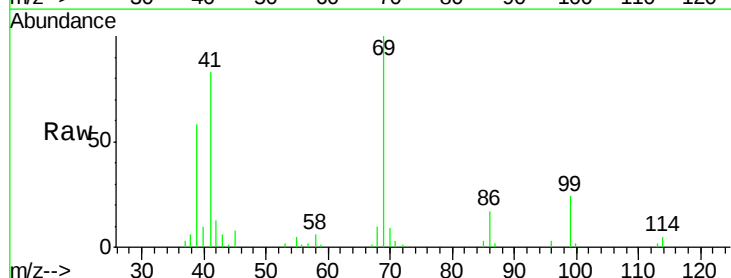
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0513SBS01

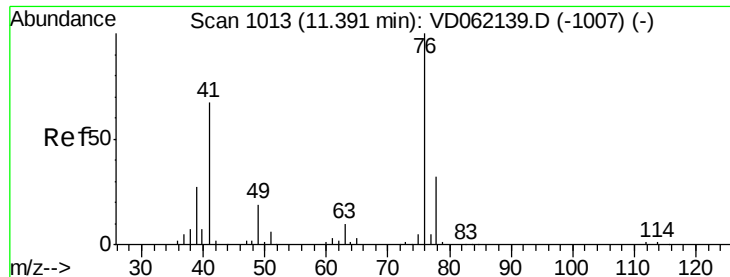
Tot Ion:	97	Resp:	81883
Ion	Ratio	Lower	Upper
97	100		
83	79.2	65.7	98.5
85	57.3	45.6	68.4
99	64.9	48.4	72.6



#56
 Ethyl methacrylate
 Concen: 21.478 ug/l
 RT: 11.06 min Scan# 979
 Delta R.T. 0.03 min
 Lab File: VD062297.D
 Acq: 13 May 2019 11:38

Tgt Ion:	69	Resp:	81555
Ion	Ratio	Lower	Upper
69	100		
41	83.3	56.3	84.5
39	58.0	29.4	44.2#





#57

1,3-Dichloropropane

Concen: 20.717 ug/l

RT: 11.42 min Scan# 1016

Delta R.T. 0.03 min

Lab File: VD062297.D

Acq: 13 May 2019 11:38

Instrument :

MSVOA_D

ClientSampleId :

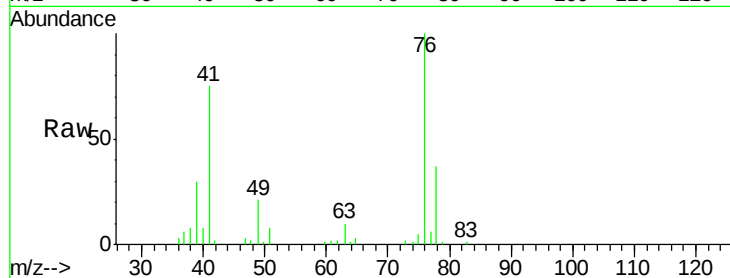
VD0513SBS01

Tot Ion: 76 Resp: 114367

Ion Ratio Lower Upper

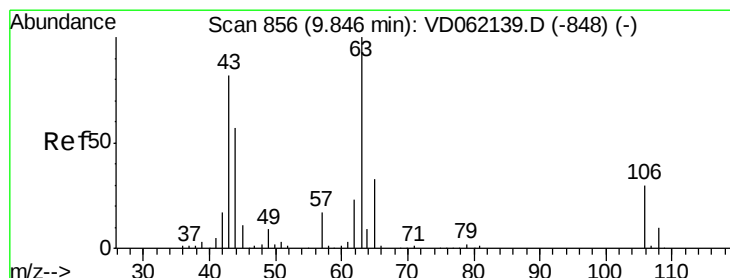
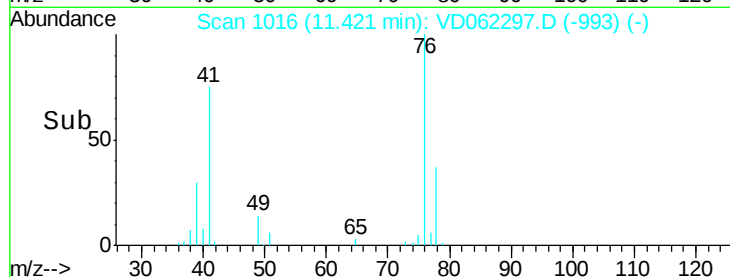
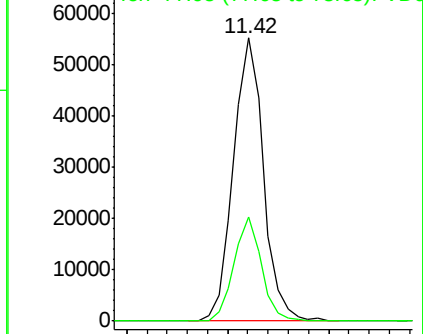
76 100

78 36.7 26.2 39.2



Abundance Ion 75.95 (75.65 to 76.65): VDC

Ion 77.95 (77.65 to 78.65): VDC



#58

2-Chloroethyl Vinyl ether

Concen: 114.624 ug/l

RT: 9.87 min Scan# 858

Delta R.T. 0.02 min

Lab File: VD062297.D

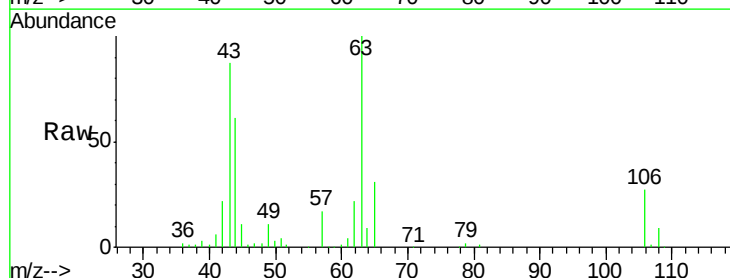
Acq: 13 May 2019 11:38

Tgt Ion: 63 Resp: 237745

Ion Ratio Lower Upper

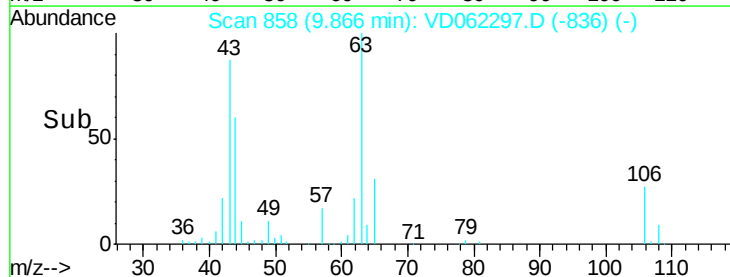
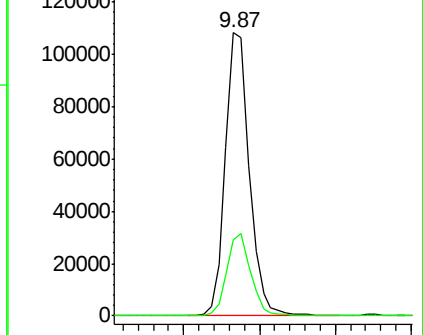
63 100

106 27.0 22.6 34.0



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 105.95 (105.65 to 106.65): V

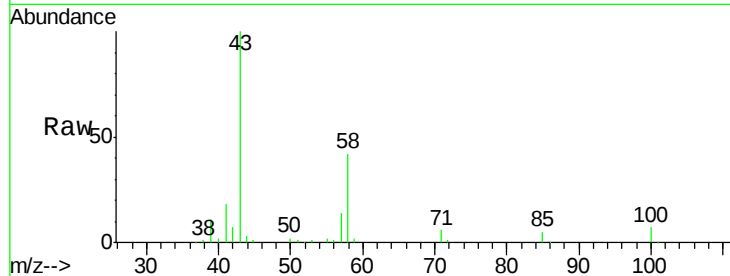




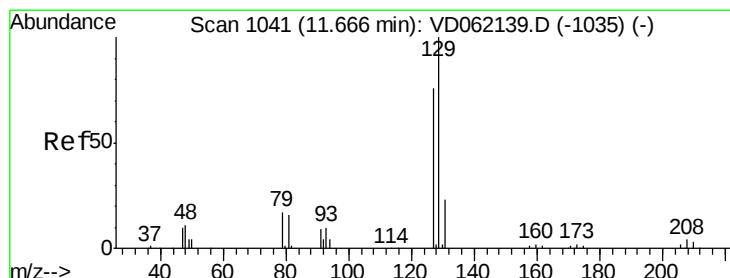
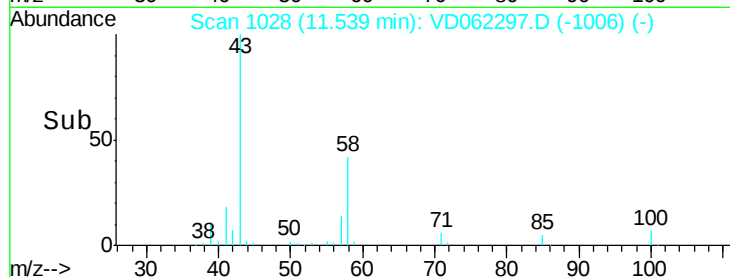
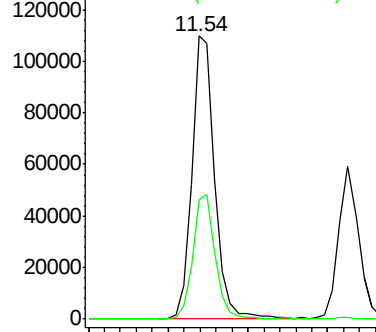
#59
2-Hexanone
Concen: 110.326 ug/l
RT: 11.54 min Scan# 1028
Delta R.T. 0.02 min
Lab File: VD062297.D
Acq: 13 May 2019 11:38

Instrument :
MSVOA_D
ClientSampleId :
VD0513SBS01

Tot Ion: 43 Resp: 220980
Ion Ratio Lower Upper
43 100
58 42.3 25.4 76.4

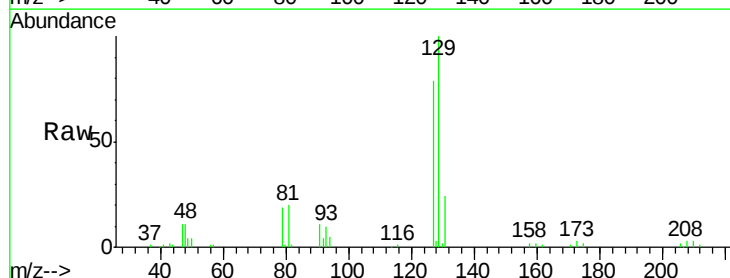


Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 57.95 (57.65 to 58.65): VDC

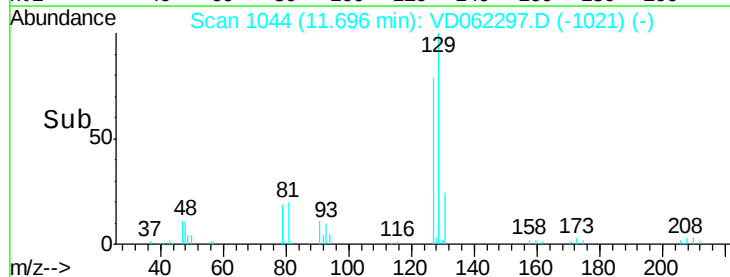
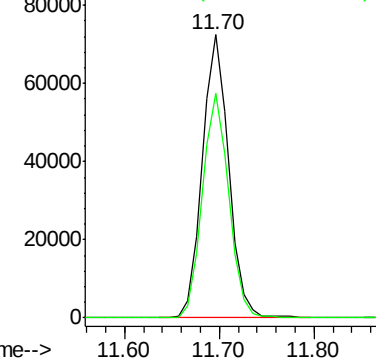


#60
Dibromochloromethane
Concen: 22.094 ug/l
RT: 11.70 min Scan# 1044
Delta R.T. 0.03 min
Lab File: VD062297.D
Acq: 13 May 2019 11:38

Tgt Ion: 129 Resp: 139523
Ion Ratio Lower Upper
129 100
127 79.2 38.0 113.9



Abundance Ion 128.80 (128.50 to 129.50): V
Ion 126.80 (126.50 to 127.50): V

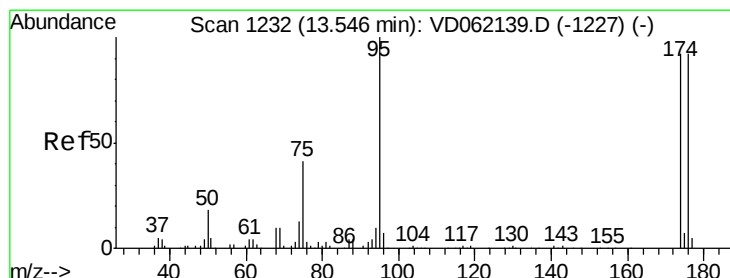
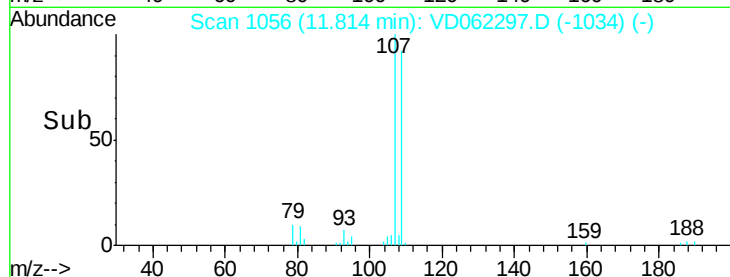
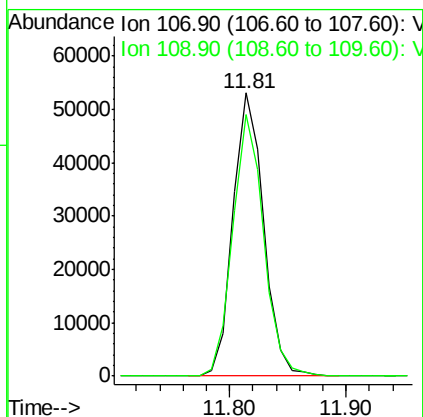
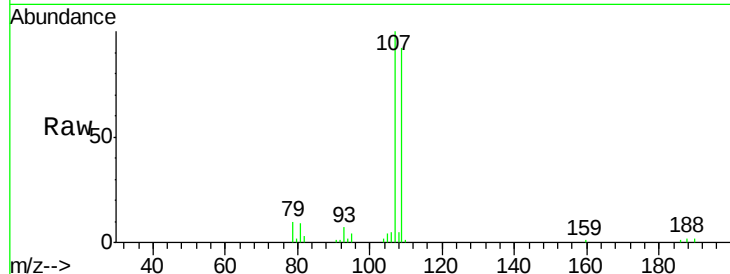




#61
 1,2-Dibromoethane
 Concen: 21.708 ug/l
 RT: 11.81 min Scan# 1056
 Delta R.T. 0.02 min
 Lab File: VD062297.D
 Acq: 13 May 2019 11:38

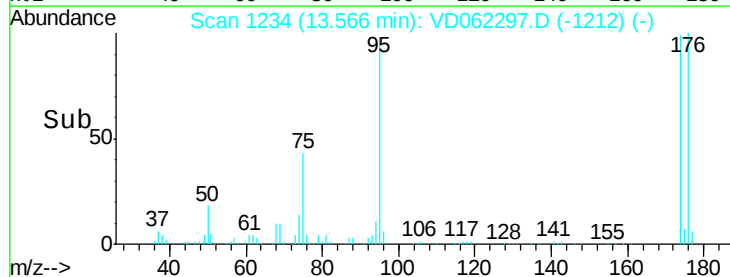
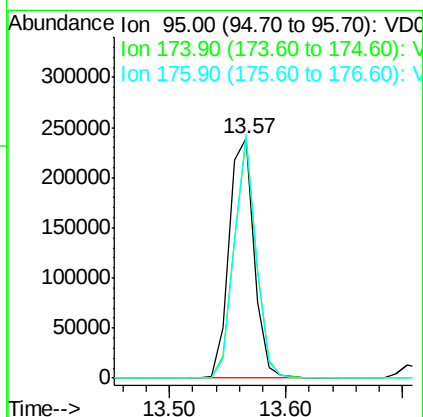
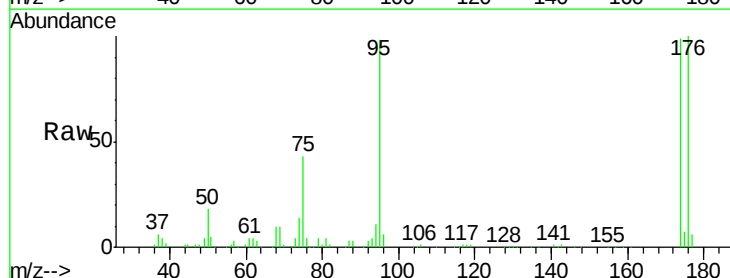
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0513SBS01

Tot Ion:107 Resp: 96438
 Ion Ratio Lower Upper
 107 100
 109 92.2 78.3 117.5



#62
 4-Bromofluorobenzene
 Concen: 51.443 ug/l
 RT: 13.57 min Scan# 1234
 Delta R.T. 0.02 min
 Lab File: VD062297.D
 Acq: 13 May 2019 11:38

Tgt Ion: 95 Resp: 354288
 Ion Ratio Lower Upper
 95 100
 174 100.5 0.0 181.8
 176 101.6 0.0 174.4

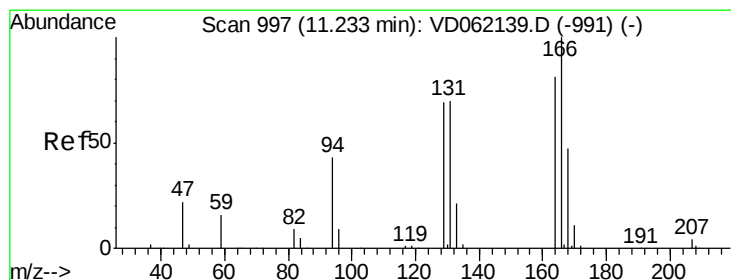
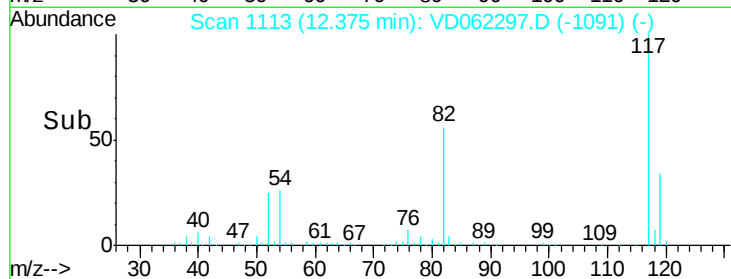
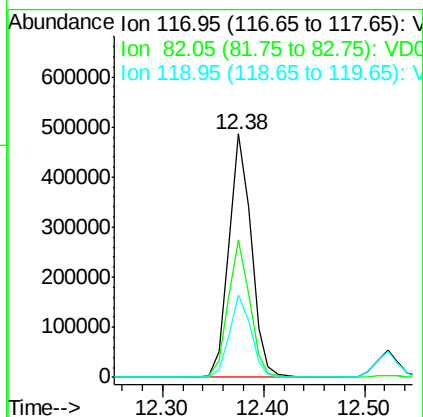
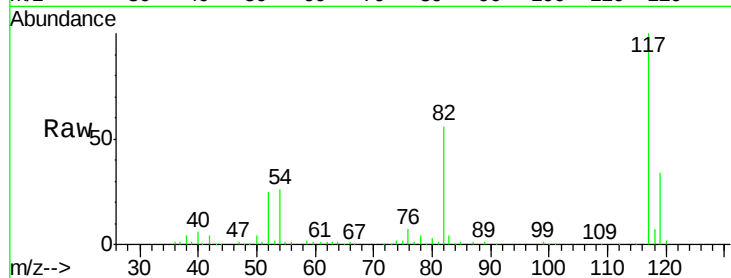




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.38 min Scan# 1113
Delta R.T. 0.02 min
Lab File: VD062297.D
Acq: 13 May 2019 11:38

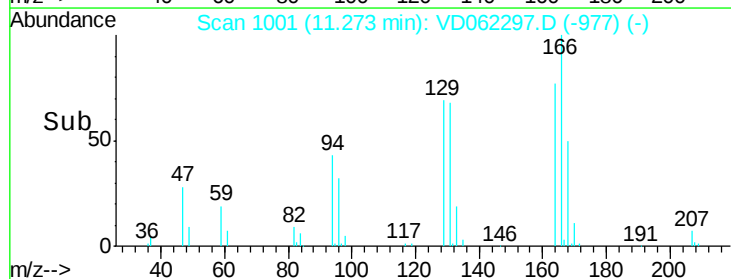
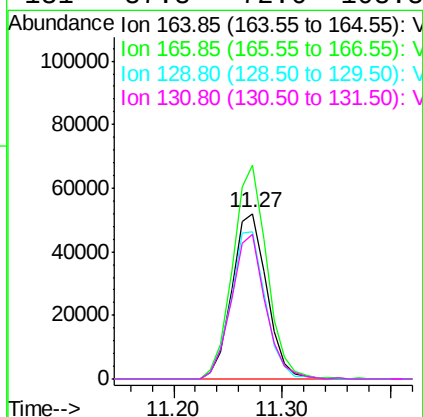
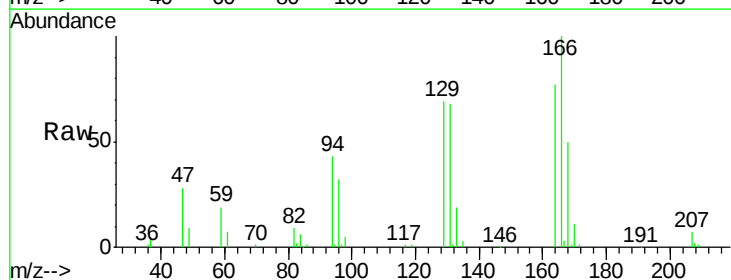
Instrument :
MSVOA_D
ClientSampleId :
VD0513SBS01

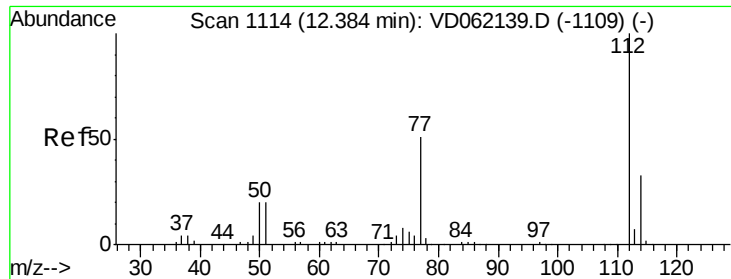
Tot Ion:117 Resp: 747066
Ion Ratio Lower Upper
117 100
82 56.5 36.2 54.2#
119 33.9 26.2 39.4



#64
Tetrachloroethene
Concen: 19.829 ug/l
RT: 11.27 min Scan# 1001
Delta R.T. 0.04 min
Lab File: VD062297.D
Acq: 13 May 2019 11:38

Tgt Ion:164 Resp: 115835
Ion Ratio Lower Upper
164 100
166 129.3 101.5 152.3
129 88.9 74.6 112.0
131 87.8 72.6 108.8

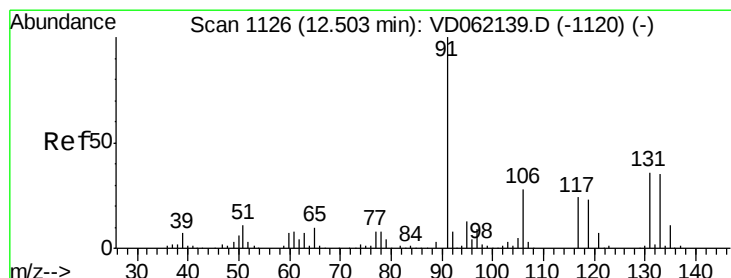
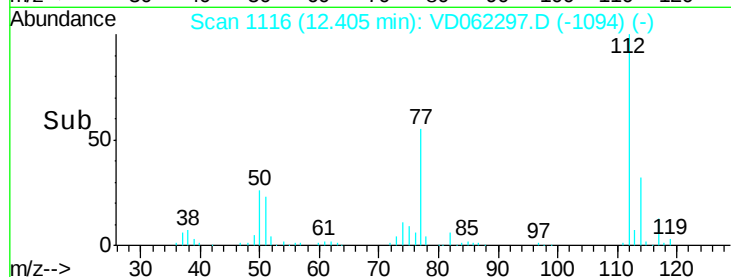
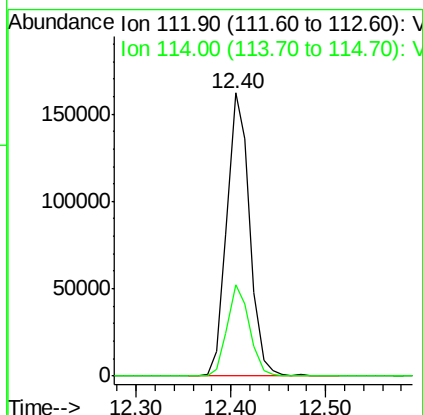
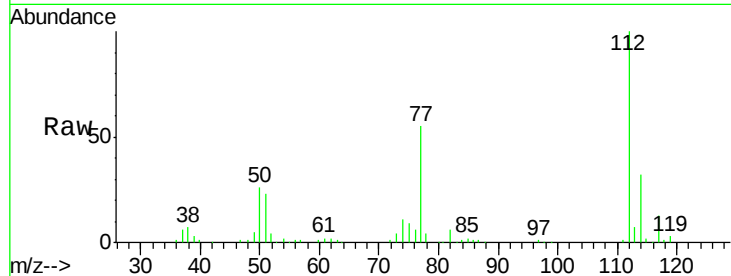




#65
Chlorobenzene
Concen: 19.397 ug/l
RT: 12.40 min Scan# 1116
Delta R.T. 0.02 min
Lab File: VD062297.D
Acq: 13 May 2019 11:38

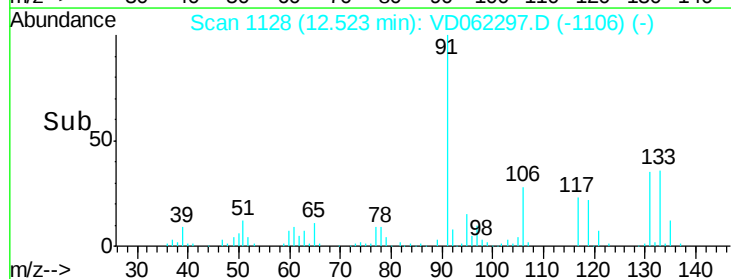
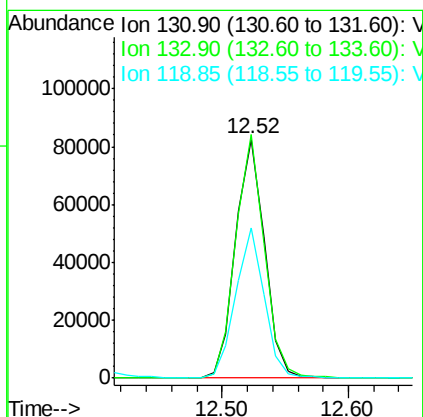
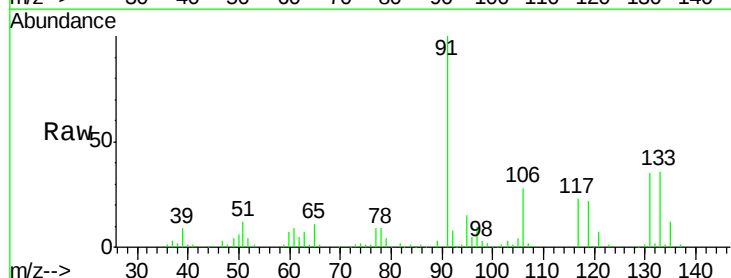
Instrument :
MSVOA_D
ClientSampleId :
VD0513SBS01

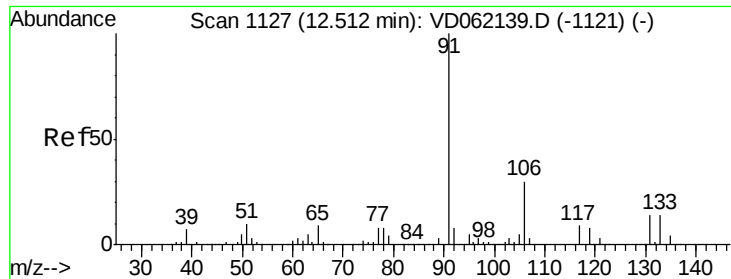
Tot Ion:112 Resp: 269890
Ion Ratio Lower Upper
112 100
114 32.1 25.8 38.8



#66
1,1,1,2-Tetrachloroethane
Concen: 21.817 ug/l
RT: 12.52 min Scan# 1128
Delta R.T. 0.02 min
Lab File: VD062297.D
Acq: 13 May 2019 11:38

Tgt Ion:131 Resp: 132118
Ion Ratio Lower Upper
131 100
133 102.1 48.6 145.8
119 62.7 34.7 104.1

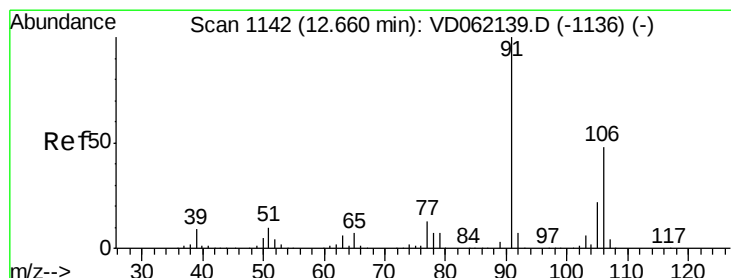
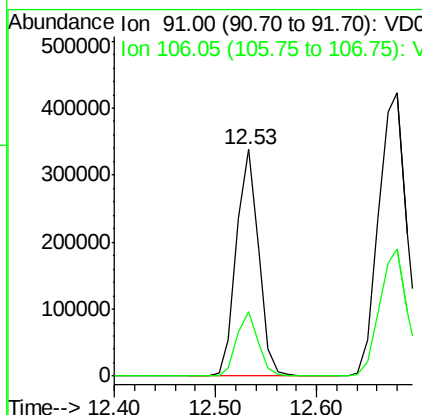
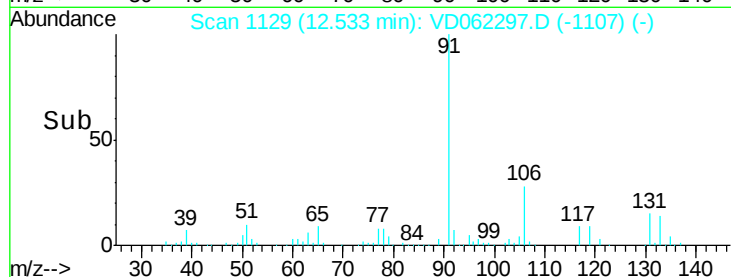
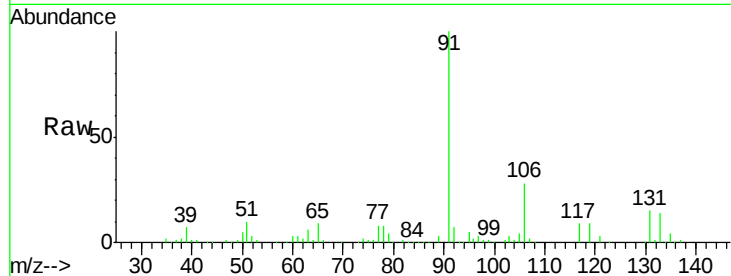




#67
Ethyl Benzene
Concen: 22.196 ug/l
RT: 12.53 min Scan# 1129
Delta R.T. 0.02 min
Lab File: VD062297.D
Acq: 13 May 2019 11:38

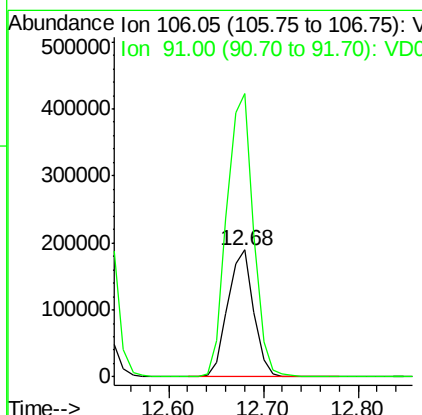
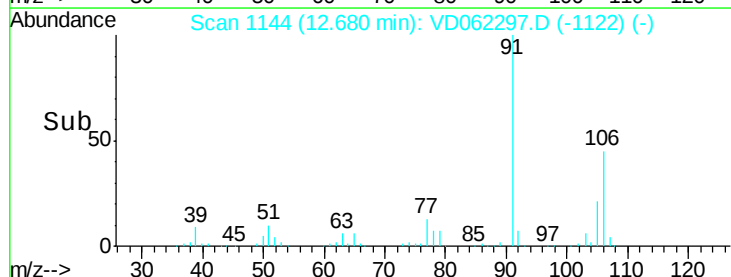
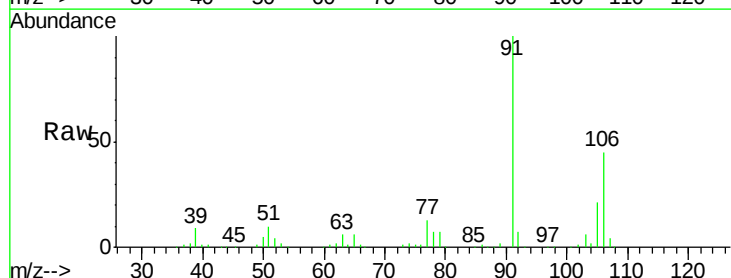
Instrument :
MSVOA_D
ClientSampleId :
VD0513SBS01

Tot Ion: 91 Resp: 517057
Ion Ratio Lower Upper
91 100
106 28.2 24.7 37.1



#68
m/p-Xylenes
Concen: 42.191 ug/l
RT: 12.68 min Scan# 1144
Delta R.T. 0.02 min
Lab File: VD062297.D
Acq: 13 May 2019 11:38

Tgt Ion: 106 Resp: 357574
Ion Ratio Lower Upper
106 100
91 222.6 164.0 246.0

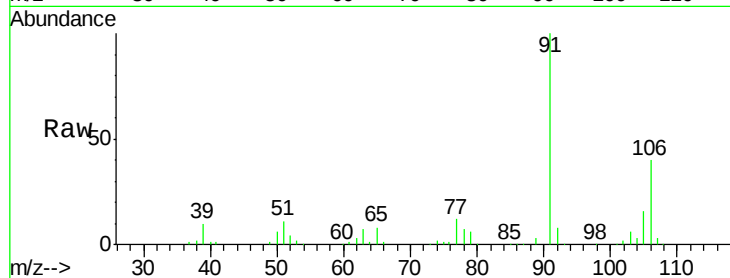




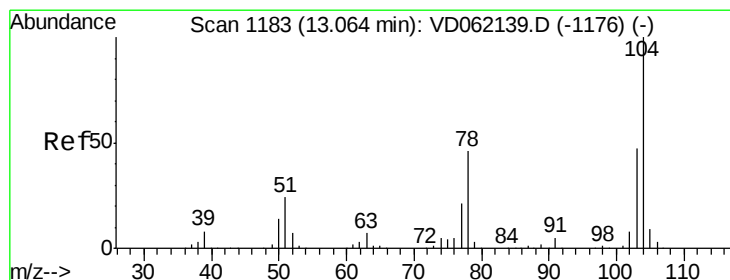
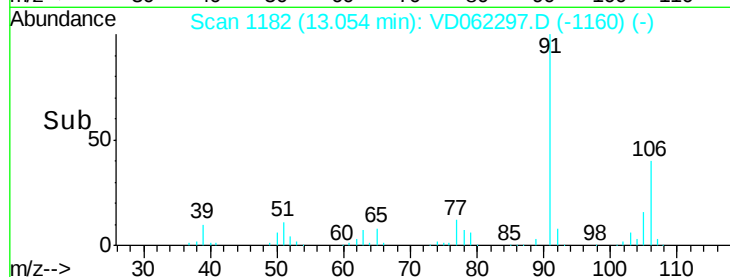
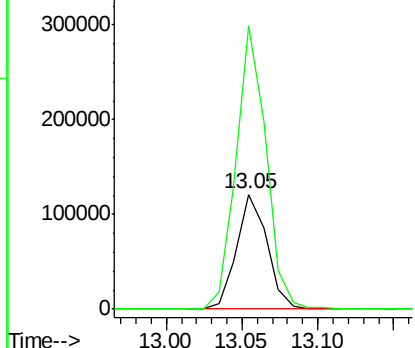
#69
o-Xylene
Concen: 21.516 ug/l
RT: 13.05 min Scan# 1182
Delta R.T. 0.02 min
Lab File: VD062297.D
Acq: 13 May 2019 11:38

Instrument :
MSVOA_D
ClientSampleId :
VD0513SBS01

Tot Ion:106 Resp: 169527
Ion Ratio Lower Upper
106 100
91 247.3 106.7 319.9

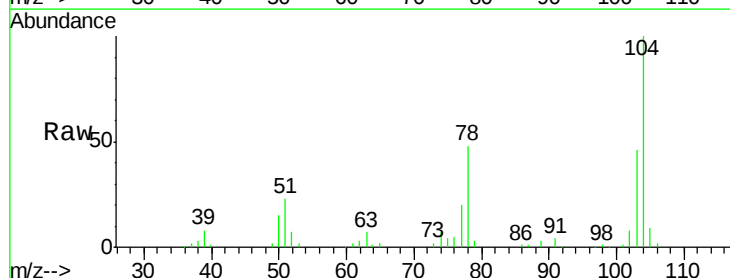


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): VDC

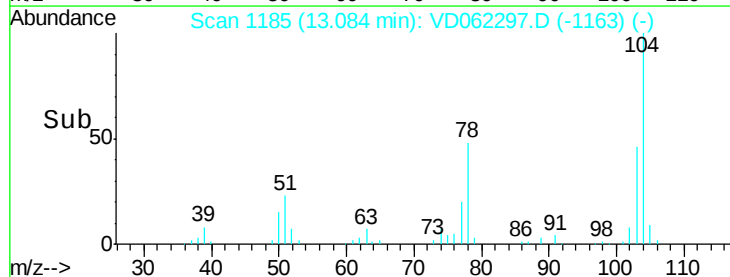
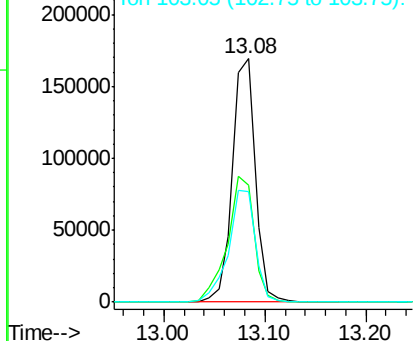


#70
Styrene
Concen: 19.936 ug/l
RT: 13.08 min Scan# 1185
Delta R.T. 0.02 min
Lab File: VD062297.D
Acq: 13 May 2019 11:38

Tgt Ion:104 Resp: 266103
Ion Ratio Lower Upper
104 100
78 47.8 35.4 53.2
103 45.6 37.5 56.3



Abundance Ion 104.05 (103.75 to 104.75): V
Ion 77.95 (77.65 to 78.65): VDC
Ion 103.05 (102.75 to 103.75): V

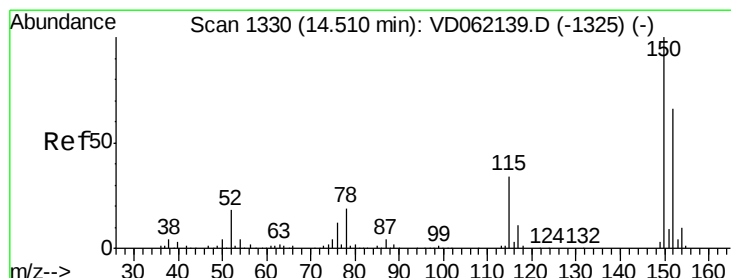
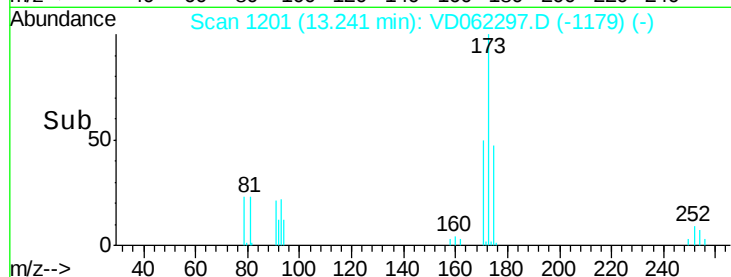
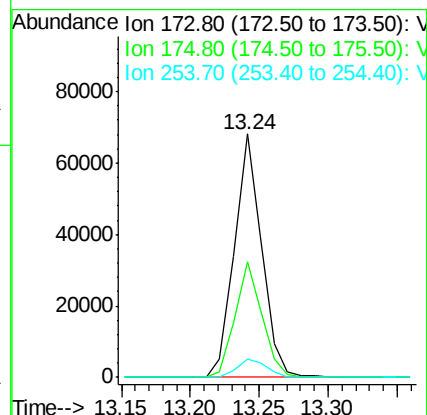
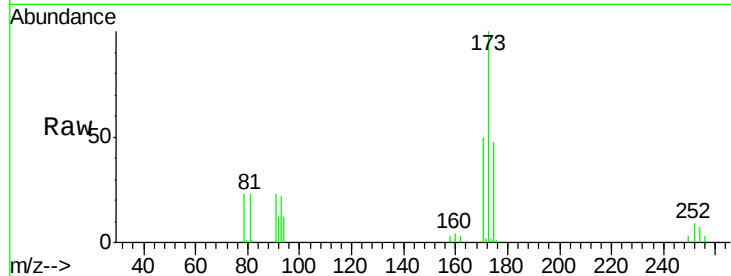




#71
Bromoform
Concen: 22.211 ug/l
RT: 13.24 min Scan# 1201
Delta R.T. 0.02 min
Lab File: VD062297.D
Acq: 13 May 2019 11:38

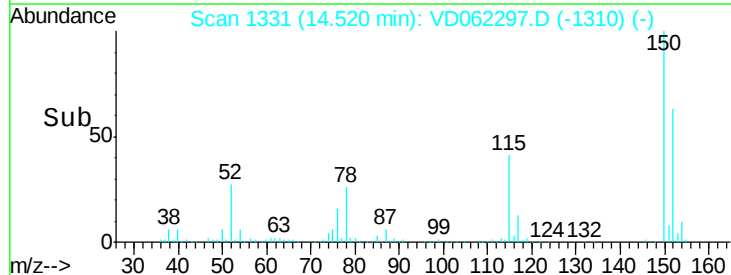
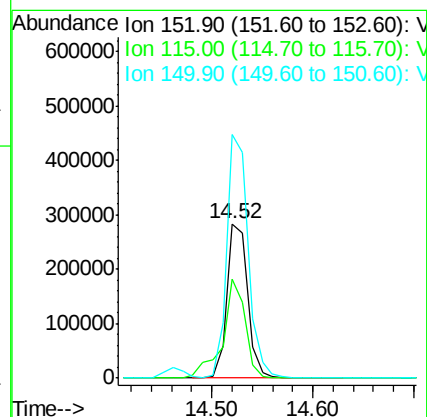
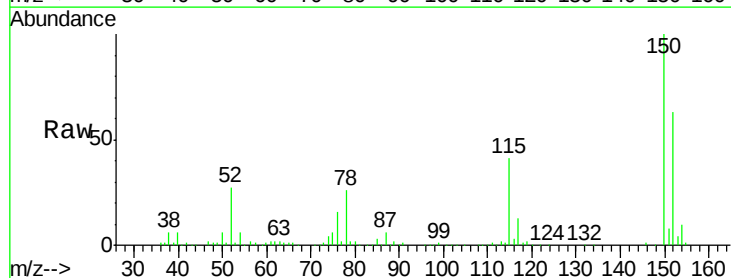
Instrument :
MSVOA_D
ClientSampleId :
VD0513SBS01

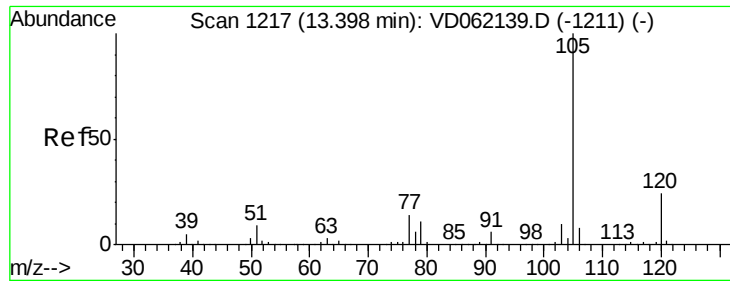
Tot Ion:173 Resp: 93578
Ion Ratio Lower Upper
173 100
175 47.2 24.4 73.4
254 7.3 5.4 8.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.52 min Scan# 1331
Delta R.T. 0.01 min
Lab File: VD062297.D
Acq: 13 May 2019 11:38

Tgt Ion:152 Resp: 405110
Ion Ratio Lower Upper
152 100
115 63.9 30.9 92.7
150 157.6 0.0 314.8





#73

Isopropylbenzene

Concen: 21.207 ug/l

RT: 13.41 min Scan# 1218

Delta R.T. 0.01 min

Lab File: VD062297.D

Acq: 13 May 2019 11:38

Instrument :

MSVOA_D

ClientSampleId :

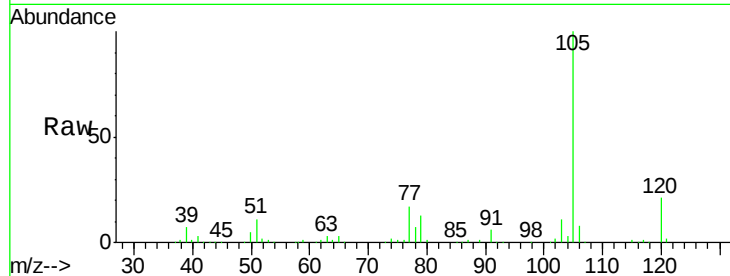
VD0513SBS01

Tot Ion:105 Resp: 514976

Ion Ratio Lower Upper

105 100

120 21.0 12.0 36.1



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

13.41

400000

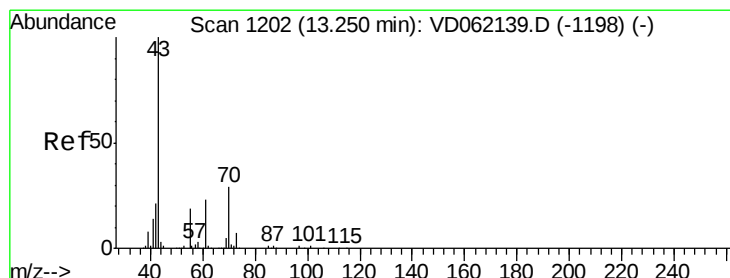
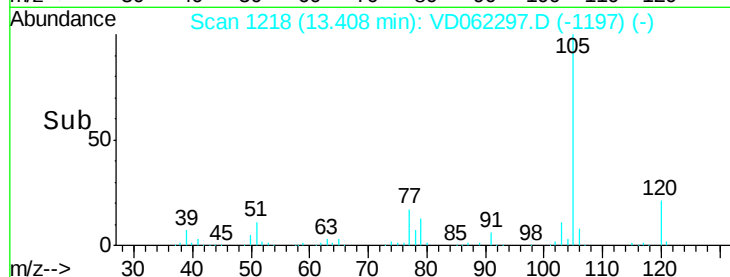
300000

200000

100000

0

Time--> 13.30 13.40 13.50



#74

N-ethyl acetate

Concen: 20.129 ug/l

RT: 13.27 min Scan# 1204

Delta R.T. 0.02 min

Lab File: VD062297.D

Acq: 13 May 2019 11:38

Tgt Ion: 43 Resp: 128153

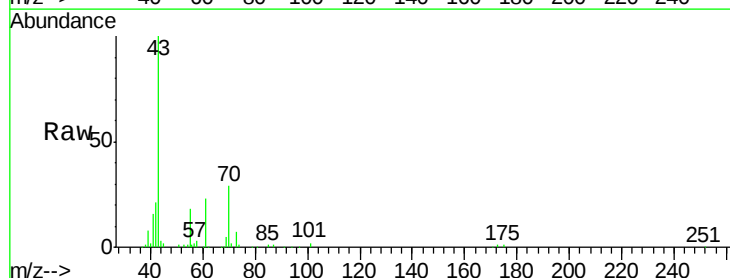
Ion Ratio Lower Upper

43 100

70 29.4 24.2 36.4

55 18.2 16.0 24.0

61 22.7 21.6 32.4



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 60.95 (60.65 to 61.65): VDC

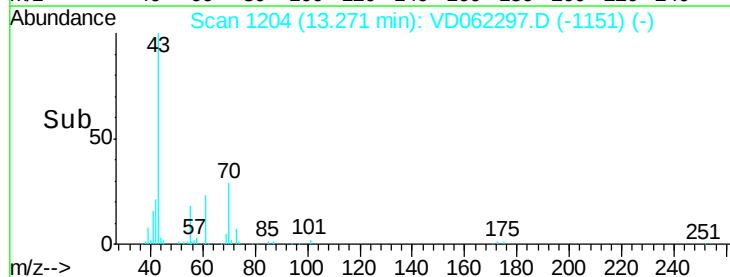
150000

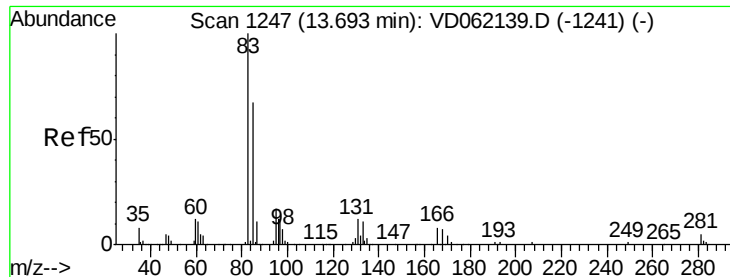
100000

50000

0

Time--> 13.20 13.25 13.30 13.35





#75

1,1,2,2-Tetrachloroethane

Concen: 19.640 ug/l

RT: 13.70 min Scan# 1248

Delta R.T. 0.01 min

Lab File: VD062297.D

Acq: 13 May 2019 11:38

Instrument :

MSVOA_D

ClientSampleId :

VD0513SBS01

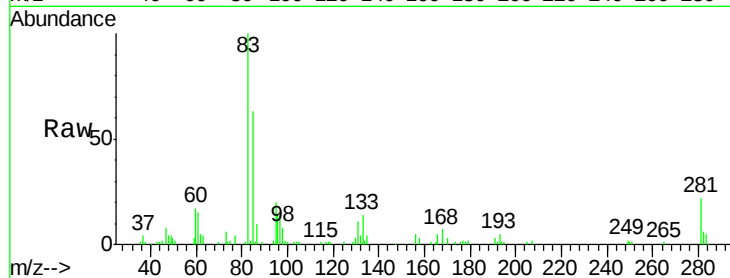
Tot Ion: 83 Resp: 90287

Ion	Ratio	Lower	Upper
83	100		
131	10.7	5.0	14.9
85	63.4	32.6	97.7

83 100

131 10.7 5.0 14.9

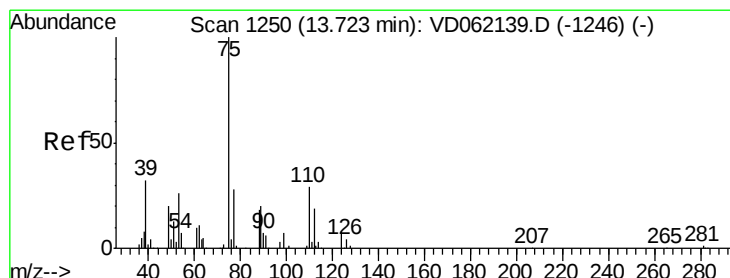
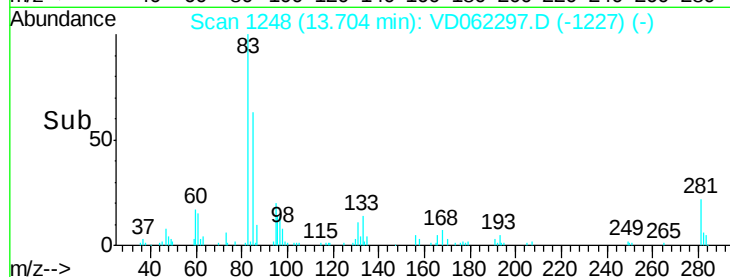
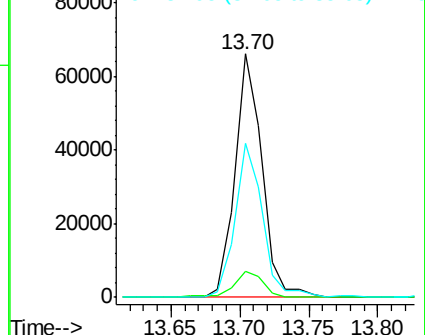
85 63.4 32.6 97.7



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: 22.004 ug/l

RT: 13.74 min Scan# 1252

Delta R.T. 0.02 min

Lab File: VD062297.D

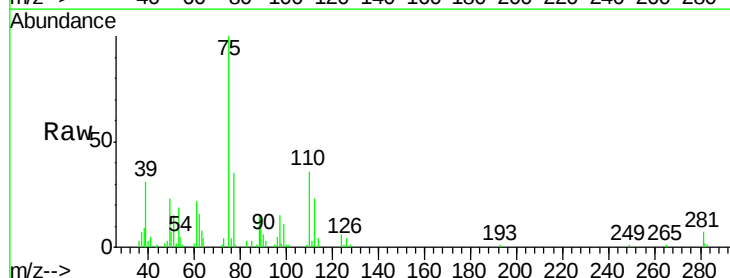
Acq: 13 May 2019 11:38

Tgt Ion: 75 Resp: 105934

Ion	Ratio	Lower	Upper
75	100		
77	35.5	16.4	49.4

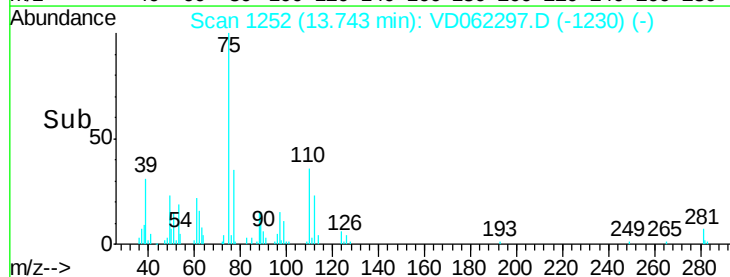
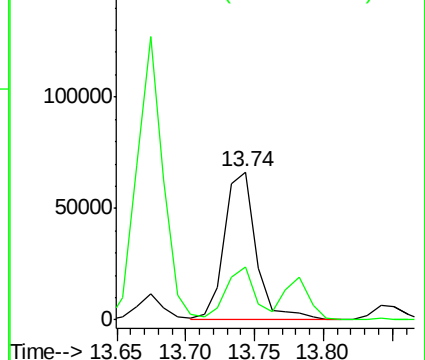
75 100

77 35.5 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: 20.164 ug/l

RT: 13.67 min Scan# 1245

Delta R.T. 0.01 min

Lab File: VD062297.D

Acq: 13 May 2019 11:38

Instrument :

MSVOA_D

ClientSampleId :

VD0513SBS01

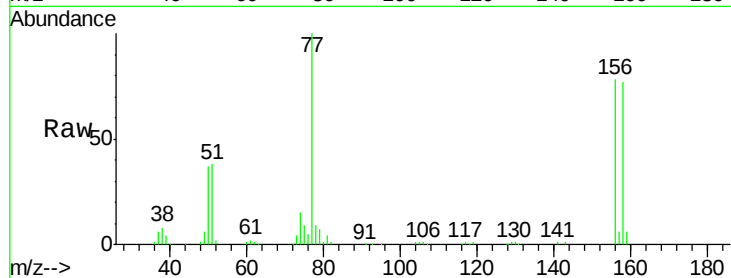
Tot Ion:156 Resp: 137075

Ion Ratio Lower Upper

156 100

77 128.0 53.1 159.4

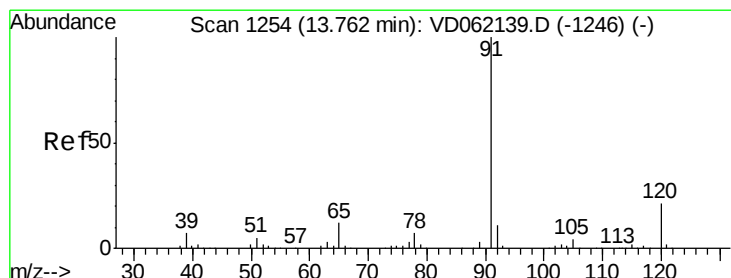
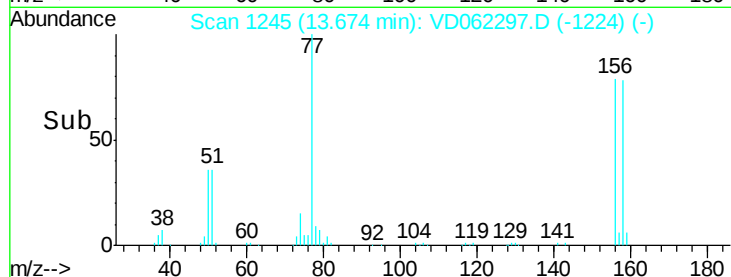
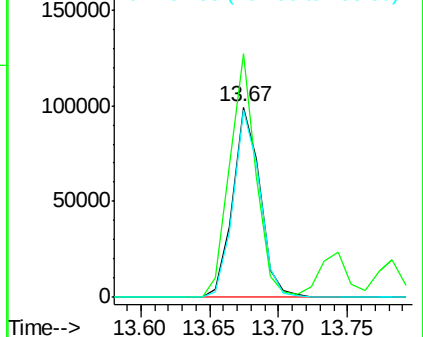
158 98.8 49.4 148.0



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: 20.981 ug/l

RT: 13.78 min Scan# 1256

Delta R.T. 0.02 min

Lab File: VD062297.D

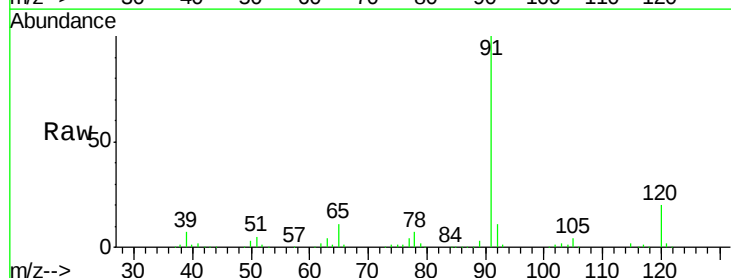
Acq: 13 May 2019 11:38

Tgt Ion: 91 Resp: 607755

Ion Ratio Lower Upper

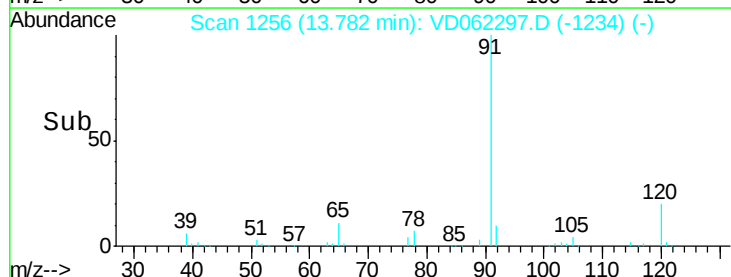
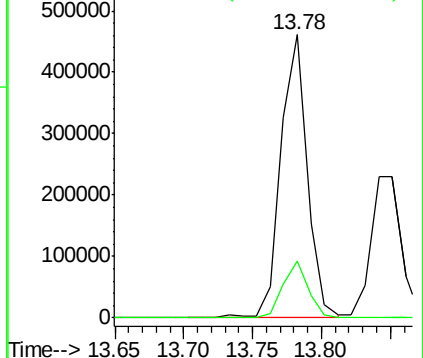
91 100

120 20.0 11.1 33.1



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.05 (119.75 to 120.75): V

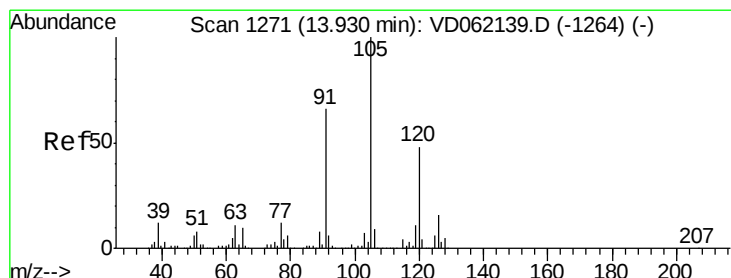
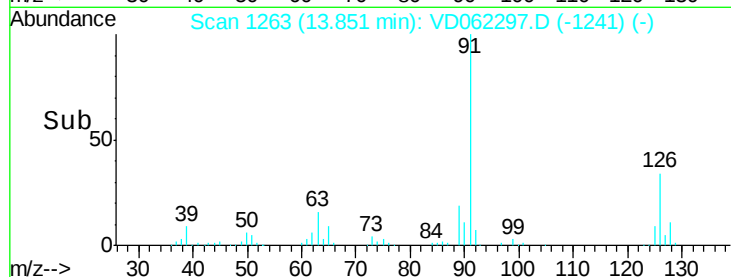
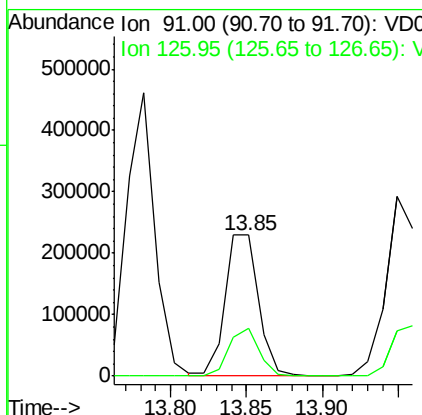
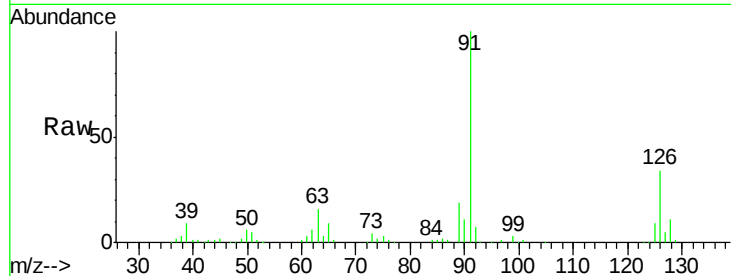




#79
 2-Chlorotoluene
 Concen: 21.098 ug/l
 RT: 13.85 min Scan# 1263
 Delta R.T. 0.02 min
 Lab File: VD062297.D
 Acq: 13 May 2019 11:38

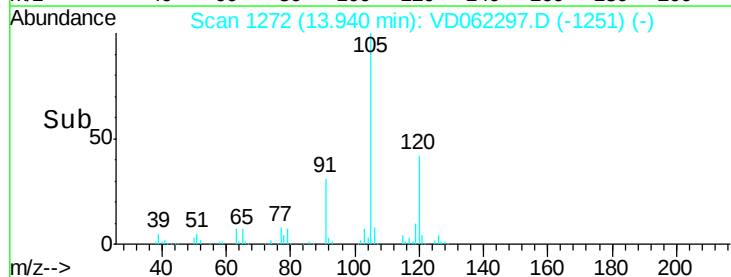
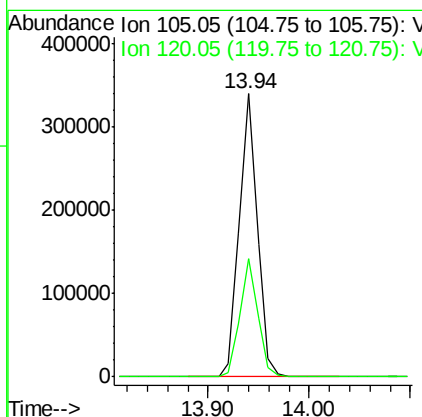
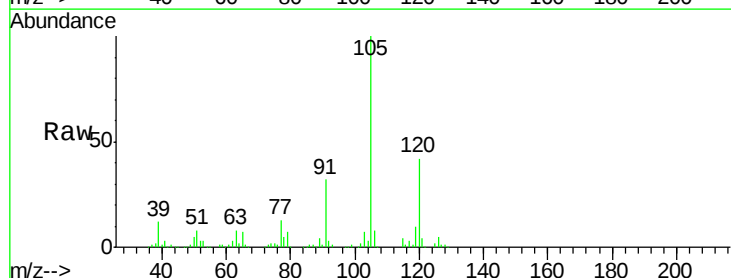
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0513SBS01

Tot Ion: 91 Resp: 350015
 Ion Ratio Lower Upper
 91 100
 126 33.8 18.6 55.8



#80
 1,3,5-Trimethylbenzene
 Concen: 20.710 ug/l
 RT: 13.94 min Scan# 1272
 Delta R.T. 0.01 min
 Lab File: VD062297.D
 Acq: 13 May 2019 11:38

Tgt Ion: 105 Resp: 423492
 Ion Ratio Lower Upper
 105 100
 120 41.9 24.0 72.0





#81

trans-1,4-Dichloro-2-butene

Concen: 18.774 ug/l

RT: 13.48 min Scan# 1225

Delta R.T. 0.01 min

Lab File: VD062297.D

Acq: 13 May 2019 11:38

Instrument :

MSVOA_D

ClientSampleId :

VD0513SBS01

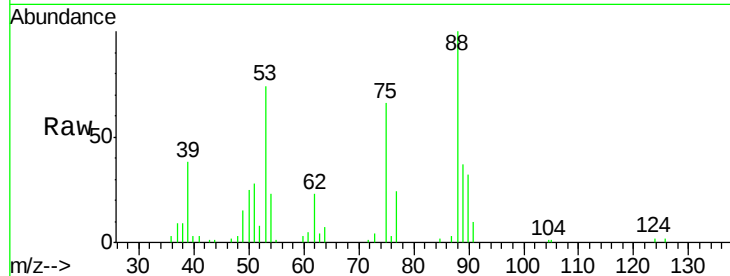
Tot Ion: 75 Resp: 25516

Ion Ratio Lower Upper

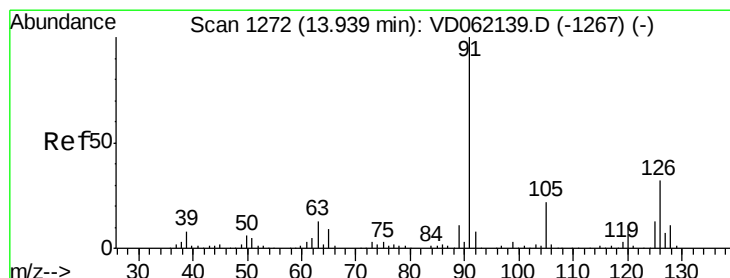
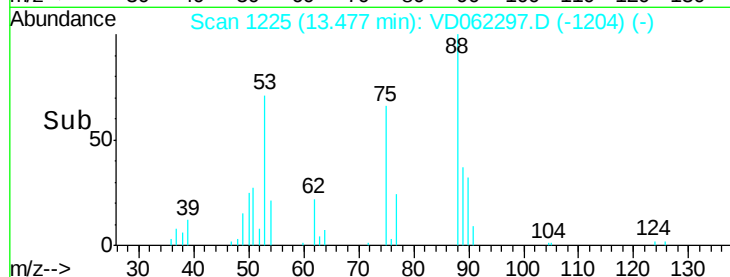
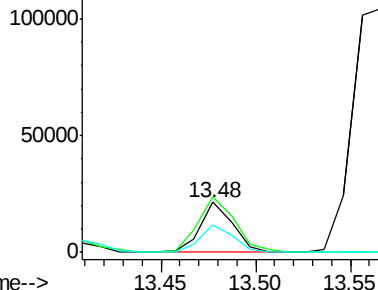
75 100

53 111.9 65.8 98.8#

89 55.4 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: 21.959 ug/l

RT: 13.95 min Scan# 1273

Delta R.T. 0.01 min

Lab File: VD062297.D

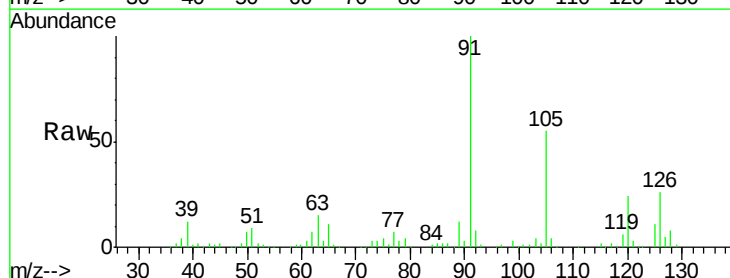
Acq: 13 May 2019 11:38

Tgt Ion: 91 Resp: 428697

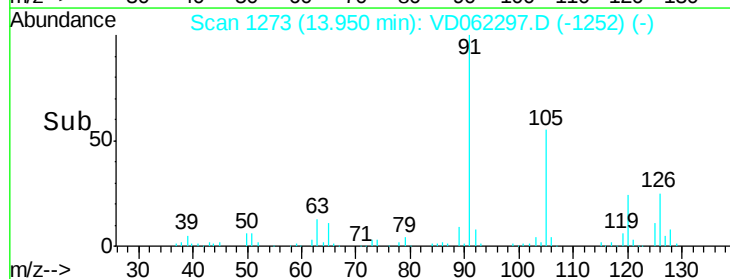
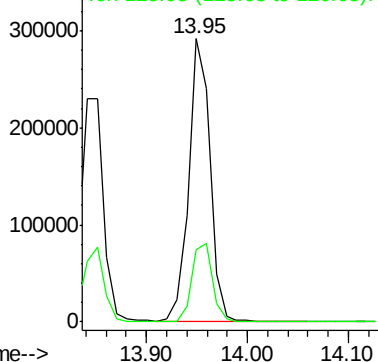
Ion Ratio Lower Upper

91 100

126 25.5 19.1 57.5



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

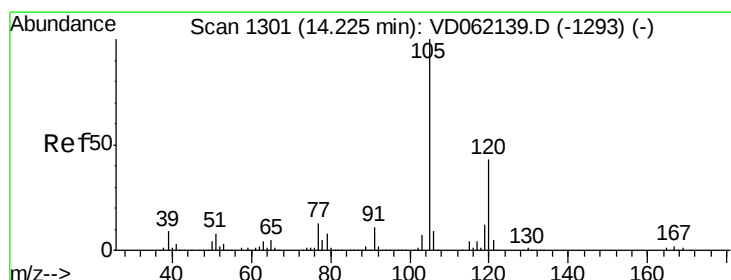
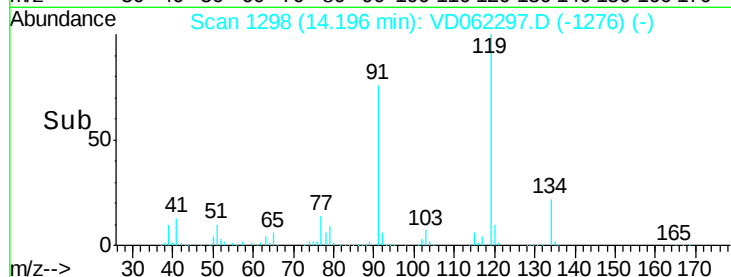
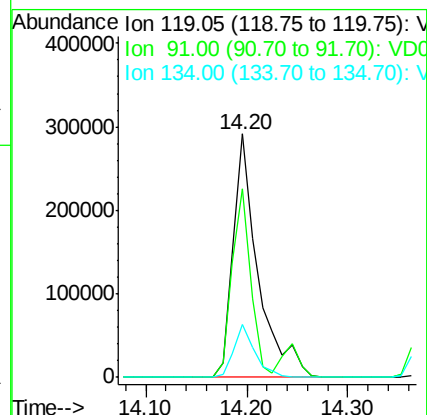
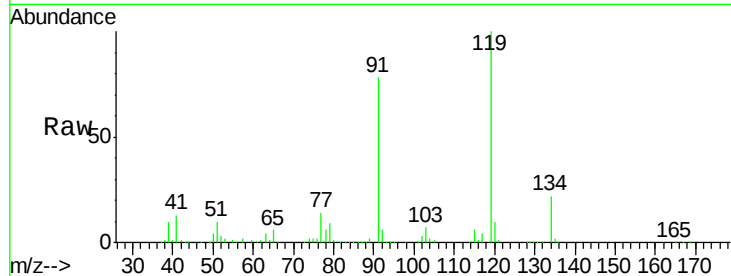




#83
tert-Butylbenzene
Concen: 21.675 ug/l
RT: 14.20 min Scan# 1298
Delta R.T. 0.02 min
Lab File: VD062297.D
Acq: 13 May 2019 11:38

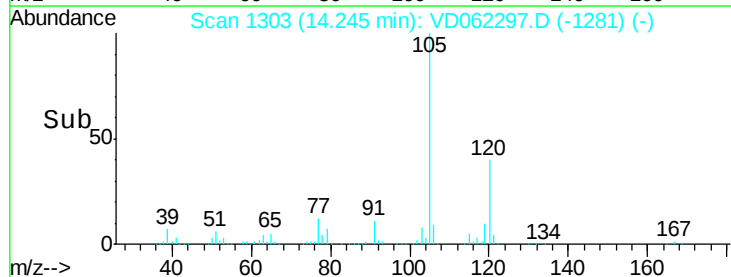
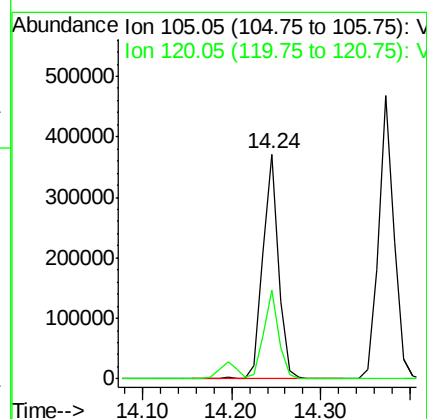
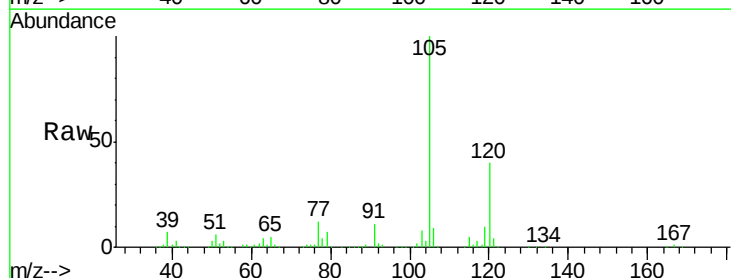
Instrument :
MSVOA_D
ClientSampleId :
VD0513SBS01

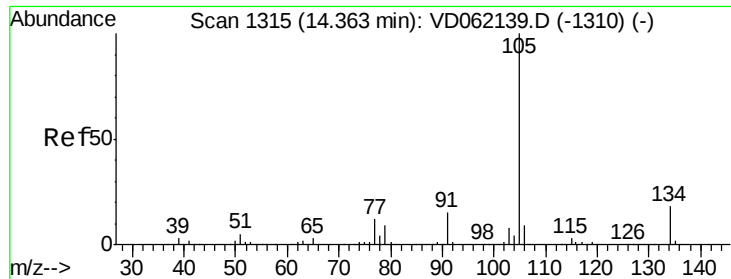
Tot Ion:119 Resp: 498191
Ion Ratio Lower Upper
119 100
91 77.5 34.2 102.6
134 21.9 12.0 36.0



#84
1,2,4-Trimethylbenzene
Concen: 21.728 ug/l
RT: 14.24 min Scan# 1303
Delta R.T. 0.02 min
Lab File: VD062297.D
Acq: 13 May 2019 11:38

Tgt Ion:105 Resp: 445865
Ion Ratio Lower Upper
105 100
120 39.7 23.1 69.2

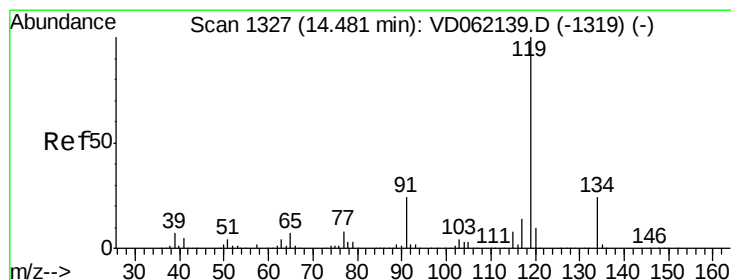
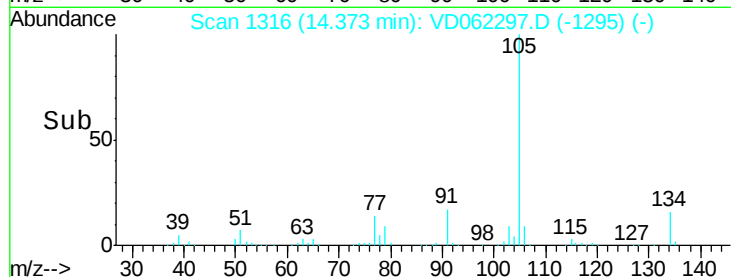
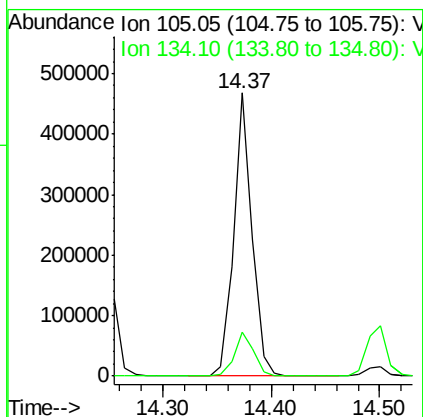
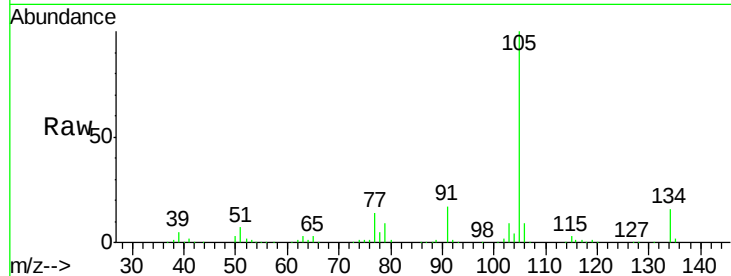




#85
 sec-Butylbenzene
 Concen: 21.837 ug/l
 RT: 14.37 min Scan# 1316
 Delta R.T. 0.01 min
 Lab File: VD062297.D
 Acq: 13 May 2019 11:38

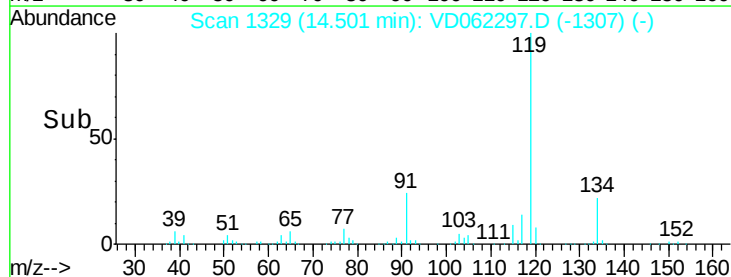
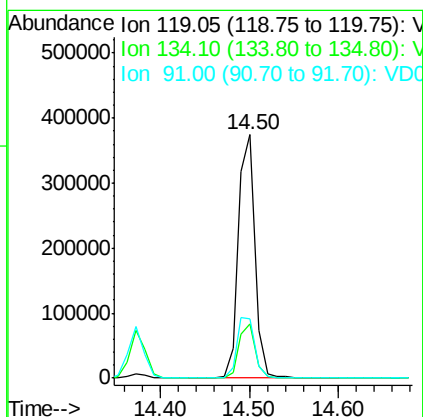
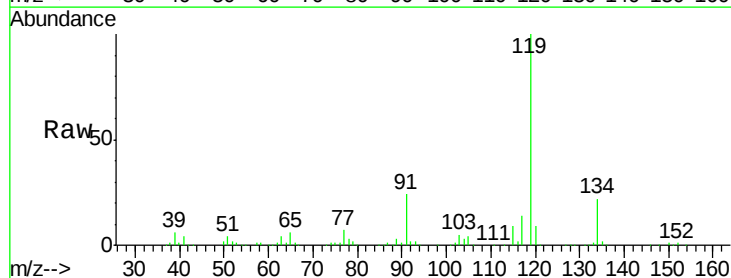
Instrument :
 MSVOA_D
 ClientSampleID :
 VD0513SBS01

Tot Ion:105 Resp: 550294
 Ion Ratio Lower Upper
 105 100
 134 15.8 8.9 26.7



#86
 p-Isopropyltoluene
 Concen: 21.693 ug/l
 RT: 14.50 min Scan# 1329
 Delta R.T. 0.02 min
 Lab File: VD062297.D
 Acq: 13 May 2019 11:38

Tgt Ion:119 Resp: 488415
 Ion Ratio Lower Upper
 119 100
 134 22.0 12.8 38.3
 91 24.1 10.7 32.1

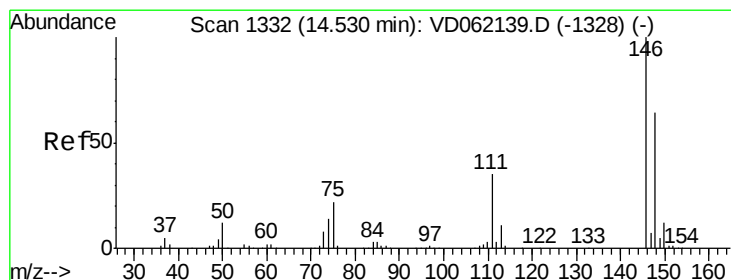
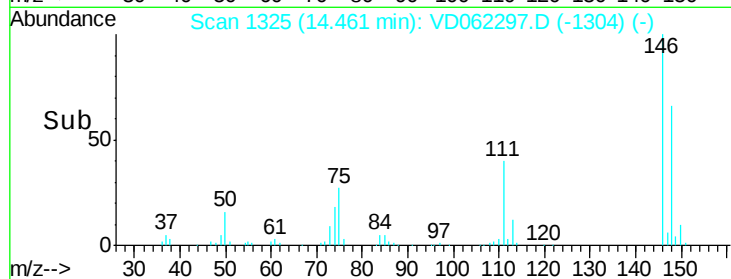
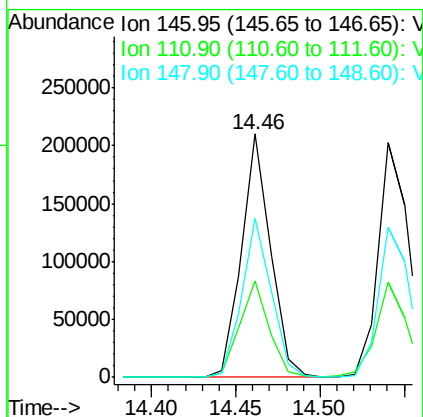
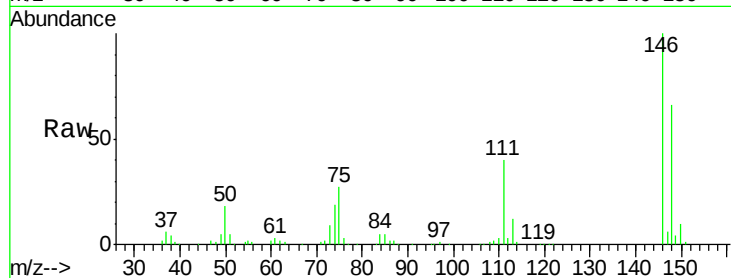




#87
 1,3-Dichlorobenzene
 Concen: 20.292 ug/l
 RT: 14.46 min Scan# 1325
 Delta R.T. 0.01 min
 Lab File: VD062297.D
 Acq: 13 May 2019 11:38

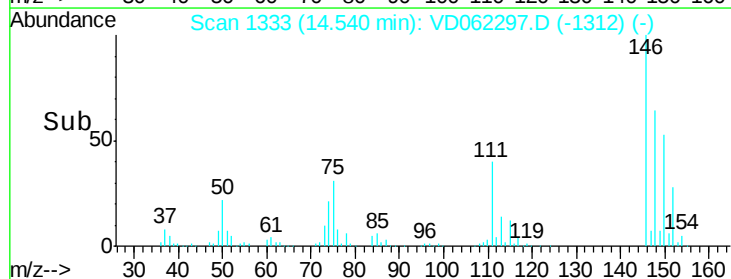
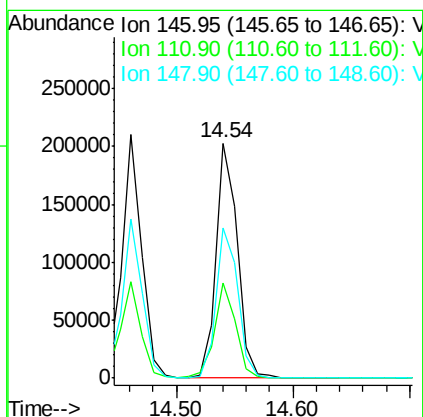
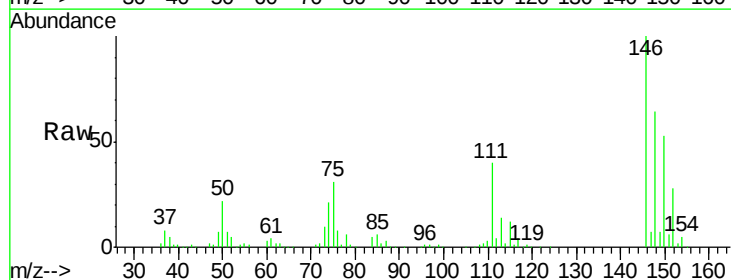
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0513SBS01

Tot Ion:146 Resp: 251983
 Ion Ratio Lower Upper
 146 100
 111 39.7 20.0 60.0
 148 65.6 31.8 95.4



#88
 1,4-Dichlorobenzene
 Concen: 21.029 ug/l
 RT: 14.54 min Scan# 1333
 Delta R.T. 0.01 min
 Lab File: VD062297.D
 Acq: 13 May 2019 11:38

Tgt Ion:146 Resp: 256586
 Ion Ratio Lower Upper
 146 100
 111 40.3 20.2 60.5
 148 63.7 32.0 96.2

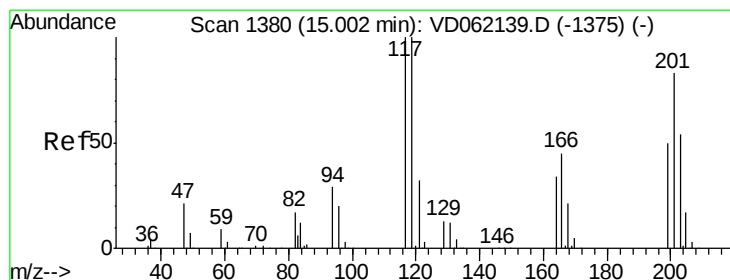
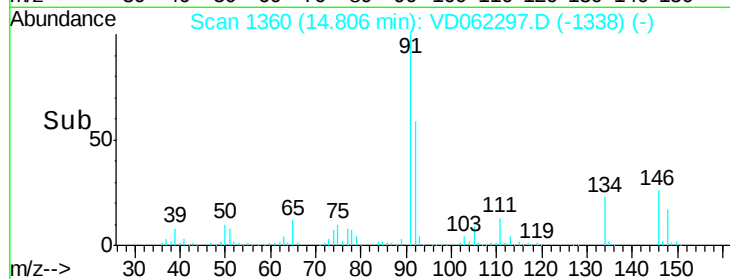
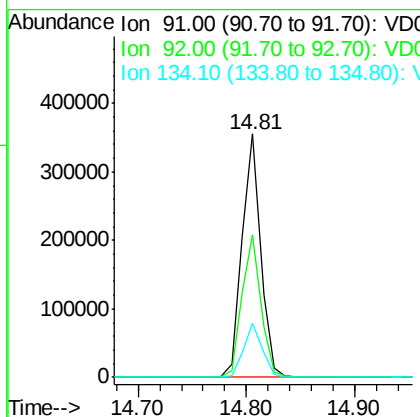
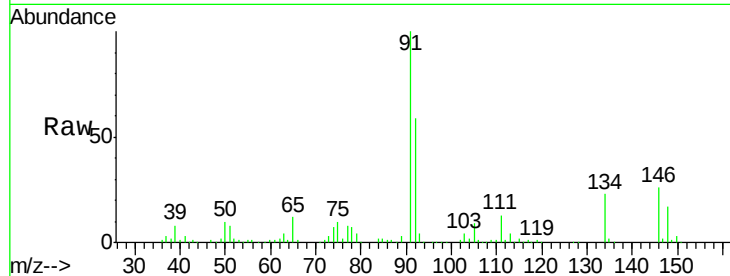




#89
n-Butylbenzene
Concen: 21.145 ug/l
RT: 14.81 min Scan# 1360
Delta R.T. 0.02 min
Lab File: VD062297.D
Acq: 13 May 2019 11:38

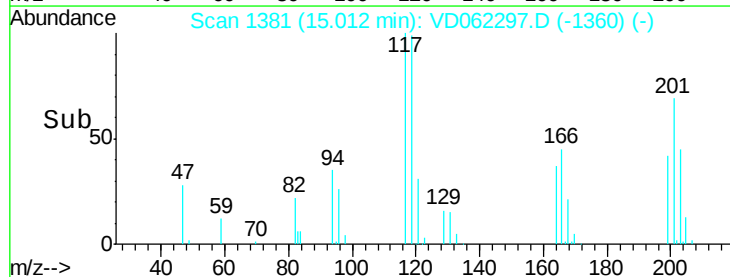
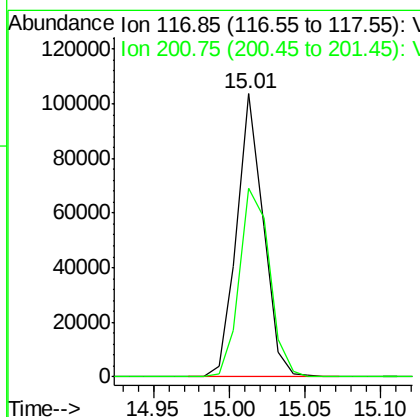
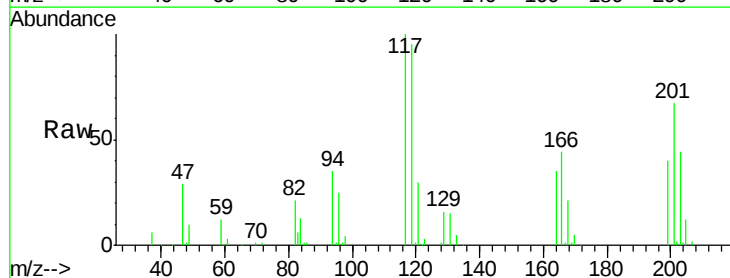
Instrument :
MSVOA_D
ClientSampleId :
VD0513SBS01

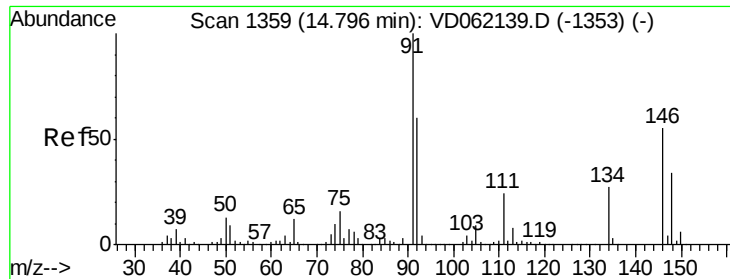
Tot Ion: 91 Resp: 427314
Ion Ratio Lower Upper
91 100
92 58.6 30.3 91.0
134 22.5 14.5 43.6



#90
Hexachloroethane
Concen: 20.639 ug/l
RT: 15.01 min Scan# 1381
Delta R.T. 0.01 min
Lab File: VD062297.D
Acq: 13 May 2019 11:38

Tgt Ion: 117 Resp: 126366
Ion Ratio Lower Upper
117 100
201 66.6 30.2 90.6

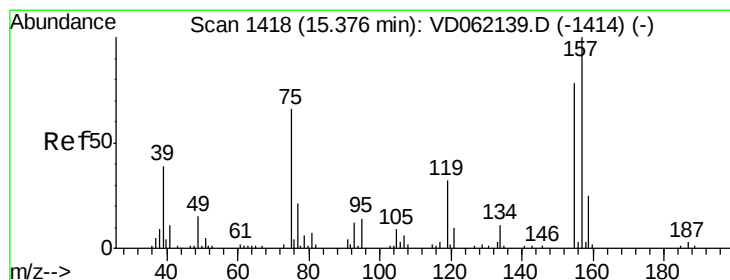
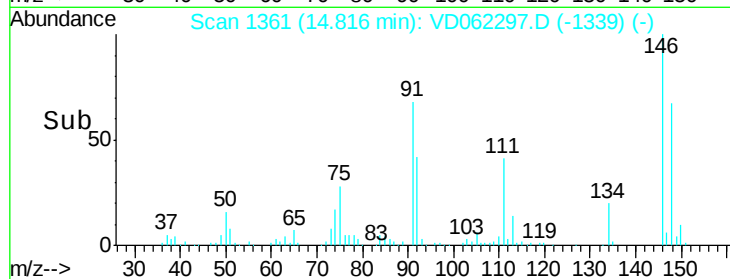
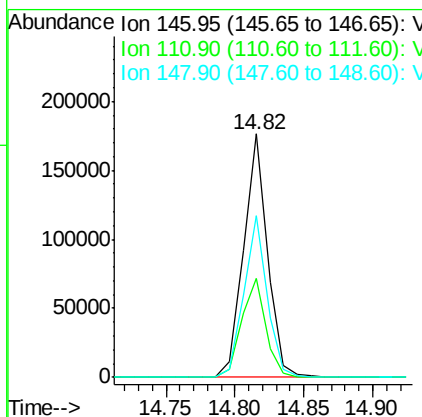
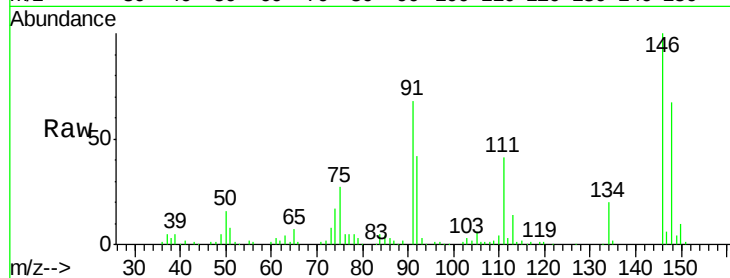




#91
 1,2-Dichlorobenzene
 Concen: 20.911 ug/l
 RT: 14.82 min Scan# 1361
 Delta R.T. 0.02 min
 Lab File: VD062297.D
 Acq: 13 May 2019 11:38

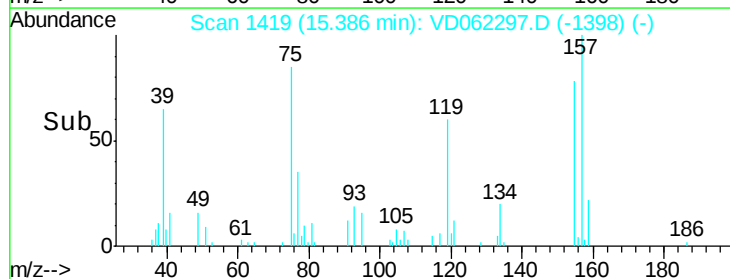
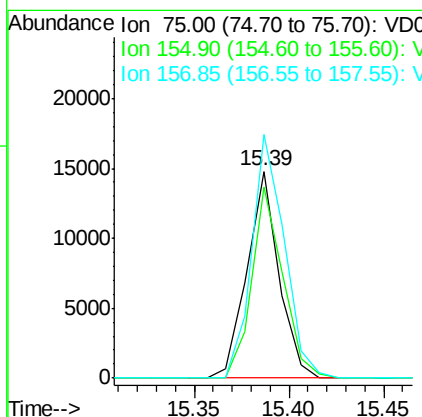
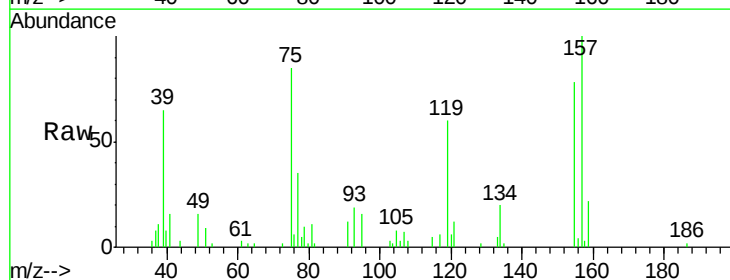
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0513SBS01

Tot Ion:146 Resp: 213857
 Ion Ratio Lower Upper
 146 100
 111 40.9 20.0 59.9
 148 66.6 32.3 96.8



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 22.759 ug/l
 RT: 15.39 min Scan# 1419
 Delta R.T. 0.01 min
 Lab File: VD062297.D
 Acq: 13 May 2019 11:38

Tgt Ion: 75 Resp: 17175
 Ion Ratio Lower Upper
 75 100
 155 92.3 55.3 165.8
 157 117.9 67.8 203.2

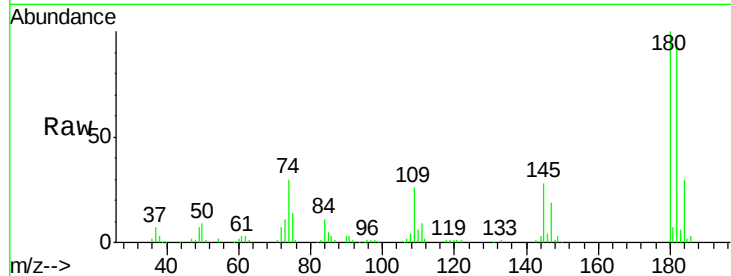




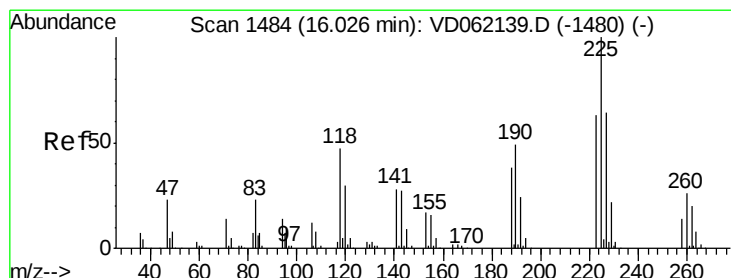
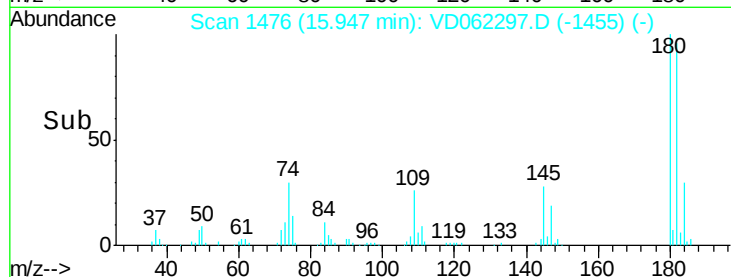
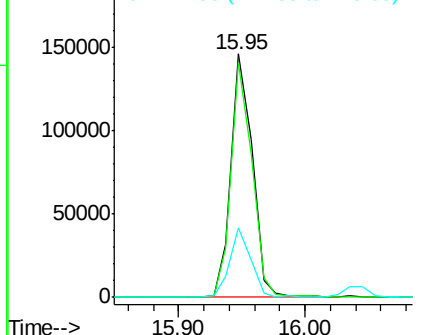
#93
 1,2,4-Trichlorobenzene
 Concen: 23.064 ug/l
 RT: 15.95 min Scan# 1476
 Delta R.T. 0.01 min
 Lab File: VD062297.D
 Acq: 13 May 2019 11:38

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0513SBS01

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.1	49.3	147.8
145	28.5	16.2	48.6

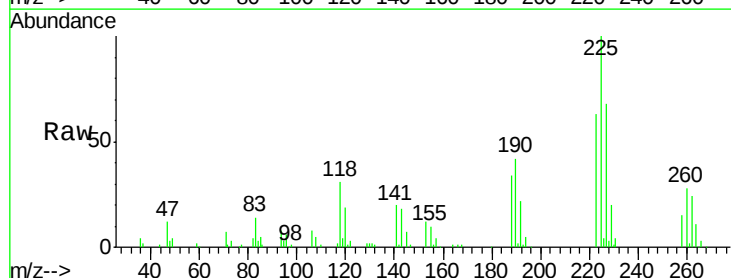


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V

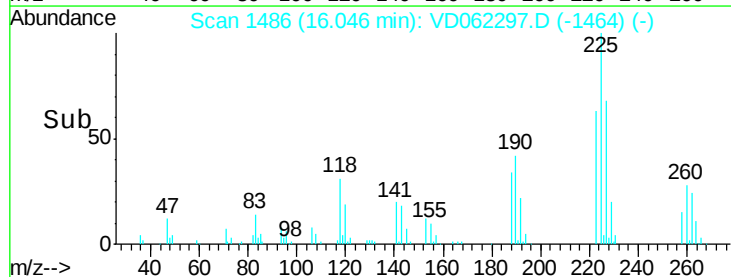
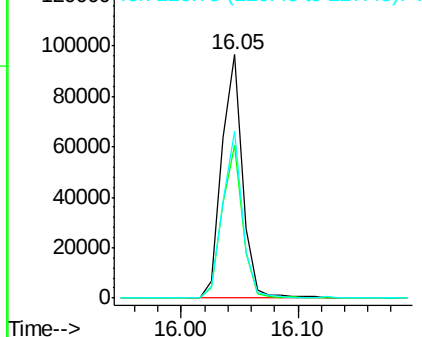


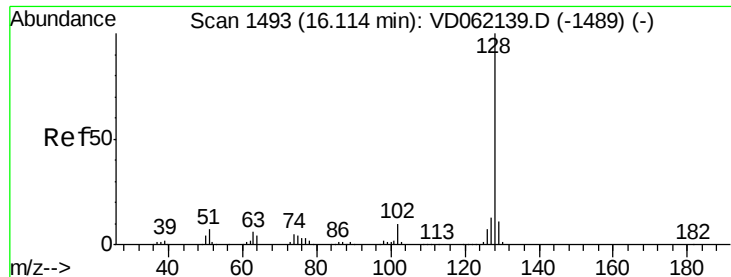
#94
 Hexachlorobutadiene
 Concen: 21.584 ug/l
 RT: 16.05 min Scan# 1486
 Delta R.T. 0.02 min
 Lab File: VD062297.D
 Acq: 13 May 2019 11:38

Tgt Ion	Ratio	Lower	Upper
225	100		
223	62.9	30.6	92.0
227	68.3	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

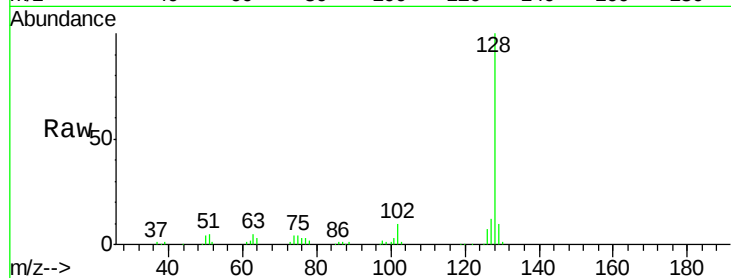




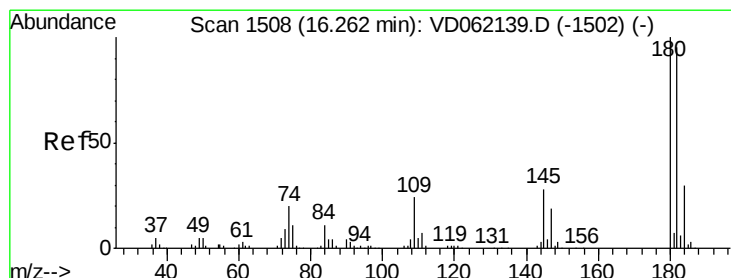
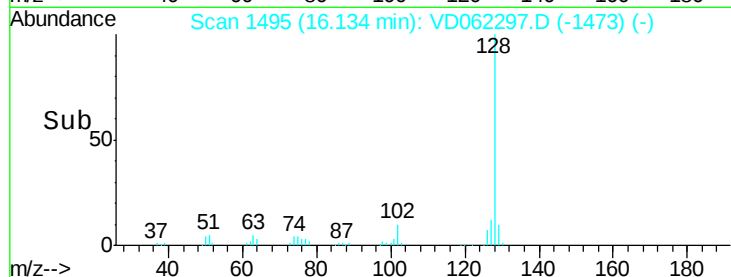
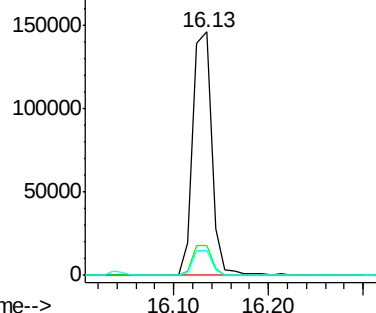
#95
Naphthalene
Concen: 19.495 ug/l
RT: 16.13 min Scan# 1495
Delta R.T. 0.02 min
Lab File: VD062297.D
Acq: 13 May 2019 11:38

Instrument :
MSVOA_D
ClientSampleId :
VD0513SBS01

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.1	9.8	14.8
129	10.0	8.8	13.2

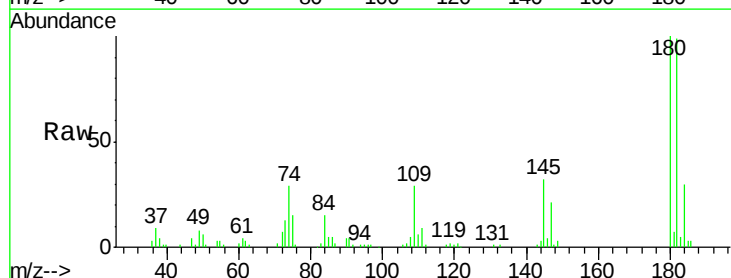


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#96
1,2,3-Trichlorobenzene
Concen: 24.270 ug/l
RT: 16.27 min Scan# 1509
Delta R.T. 0.01 min
Lab File: VD062297.D
Acq: 13 May 2019 11:38

Tgt Ion	Ratio	Lower	Upper
180	100		
182	98.8	47.0	141.0
145	32.1	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

