

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD032719\NOT REVIEWED DATA\VD032719\
 Data File : VD061356.D
 Acq On : 27 Mar 2019 16:33
 Operator : VA/AP
 Sample : VD0327SBS01
 Misc : 5.00µl/5ml/MSVOA D/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0327SBS01

Quant Time: Mar 28 04:00:15 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D032719S.M
 Quant Title : SW846 8260
 QLast Update : Thu Mar 28 02:13:53 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.03	168	754872	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.20	114	1316508	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.35	117	1029450	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.51	152	433162	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.43	65	325236	50.44	ug/l	0.00
Spiked Amount			Recovery	=	100.88%	
35) Dibromofluoromethane	6.90	113	500128	49.71	ug/l	0.00
Spiked Amount			Recovery	=	99.42%	
50) Toluene-d8	10.38	98	1189757	49.31	ug/l	0.00
Spiked Amount			Recovery	=	98.62%	
62) 4-Bromofluorobenzene	13.54	95	459262	49.63	ug/l	0.00
Spiked Amount			Recovery	=	99.26%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.58	85	165511	20.531	ug/l	99
3) Chloromethane	1.76	50	140792	21.414	ug/l	99
4) Vinyl Chloride	1.86	62	126801	21.005	ug/l	99
5) Bromomethane	2.15	94	24521	20.484	ug/l	95
6) Chloroethane	2.26	64	31838	17.984	ug/l	97
7) Trichlorofluoromethane	2.53	101	162629	18.526	ug/l	100
8) Diethyl Ether	2.87	74	57394	20.307	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	3.15	101	195380	20.703	ug/l	96
10) Methyl Iodide	3.31	142	214910	17.407	ug/l	96
11) Tert butyl alcohol	4.05	59	39355	97.999	ug/l #	93
12) 1,1-Dichloroethene	3.13	96	166216	20.514	ug/l	91
13) Acrolein	3.03	56	34699	99.622	ug/l	85
14) Allyl chloride	3.61	41	232257	20.552	ug/l	98
15) Acrylonitrile	4.18	53	148170	106.304	ug/l	97
16) Acetone	3.22	43	166462	100.419	ug/l	97
17) Carbon Disulfide	3.38	76	549549	20.875	ug/l	99
18) Methyl Acetate	3.63	43	70089	20.110	ug/l	96
19) Methyl tert-butyl Ether	4.22	73	310278	22.122	ug/l	99
20) Methylene Chloride	3.81	84	236698	24.510	ug/l	97
21) trans-1,2-Dichloroethene	4.20	96	196424	22.454	ug/l	99
22) Diisopropyl ether	5.10	45	501475	20.969	ug/l	99
23) Vinyl Acetate	5.04	43	1371581	105.584	ug/l	99
24) 1,1-Dichloroethane	4.96	63	307210	21.858	ug/l	99
25) 2-Butanone	6.05	43	205026	98.324	ug/l	96
26) 2,2-Dichloropropane	6.01	77	234909	21.026	ug/l	97
27) cis-1,2-Dichloroethene	6.02	96	204114	21.297	ug/l	100
28) Bromochloromethane	6.42	49	115869	20.423	ug/l #	99
29) Tetrahydrofuran	6.43	42	103879	102.780	ug/l	98
30) Chloroform	6.64	83	310309	21.368	ug/l	96
31) Cyclohexane	6.94	56	251149	22.613	ug/l	98
32) 1,1,1-Trichloroethane	6.85	97	268588	20.964	ug/l	99
36) 1,1-Dichloropropene	7.13	75	231443	20.143	ug/l	99
37) Ethyl Acetate	6.16	43	99792	20.307	ug/l	98
38) Carbon Tetrachloride	7.09	117	272457	20.826	ug/l	92

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	8.84	83	244024	20.392	ug/l	96
40) Benzene	7.43	78	600686	20.830	ug/l	98
41) Methacrylonitrile	6.43	41	118500	20.624	ug/l	97
42) 1,2-Dichloroethane	7.56	62	174737	20.257	ug/l	100
43) Isopropyl Acetate	9.22	43	131629	18.410	ug/l	99
44) Trichloroethene	8.51	130	214256	19.965	ug/l	98
45) 1,2-Dichloropropane	8.92	63	149379	20.429	ug/l	100
46) Dibromomethane	9.04	93	100374	20.394	ug/l	94
47) Bromodichloromethane	9.35	83	222405	20.134	ug/l	98
48) Methyl methacrylate	9.10	41	73871	18.721	ug/l	95
49) 1,4-Dioxane	9.06	88	18445	423.797	ug/l	90
51) 4-Methyl-2-Pentanone	10.28	43	436170	100.271	ug/l	99
52) Toluene	10.48	92	370944	21.085	ug/l	99
53) t-1,3-Dichloropropene	10.89	75	185451	18.478	ug/l	99
54) cis-1,3-Dichloropropene	10.02	75	251584	20.587	ug/l	97
55) 1,1,2-Trichloroethane	11.16	97	123997	20.154	ug/l	95
56) Ethyl methacrylate	11.01	69	130918	19.807	ug/l	99
57) 1,3-Dichloropropane	11.38	76	190793	21.098	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.83	63	308381	95.806	ug/l	97
59) 2-Hexanone	11.51	43	303783	96.389	ug/l	97
60) Dibromochloromethane	11.66	129	188386	19.862	ug/l	99
61) 1,2-Dibromoethane	11.78	107	140612	19.737	ug/l	98
64) Tetrachloroethene	11.23	164	161359	19.972	ug/l	97
65) Chlorobenzene	12.38	112	418568	19.895	ug/l	99
66) 1,1,1,2-Tetrachloroethane	12.49	131	166595	20.451	ug/l	98
67) Ethyl Benzene	12.50	91	680107	21.179	ug/l	97
68) m/p-Xylenes	12.65	106	523675	43.050	ug/l	96
69) o-Xylene	13.03	106	256268	21.709	ug/l	96
70) Styrene	13.05	104	449223	21.831	ug/l	97
71) Bromoform	13.22	173	105313	20.395	ug/l	97
73) Isopropylbenzene	13.39	105	671101	22.260	ug/l	100
74) N-amyl acetate	13.25	43	185561	22.095	ug/l	99
75) 1,1,2,2-Tetrachloroethane	13.68	83	133851	21.047	ug/l	97
76) 1,2,3-Trichloropropane	13.72	75	130050	20.784	ug/l	100
77) Bromobenzene	13.65	156	188217	21.059	ug/l	89
78) n-propylbenzene	13.76	91	776939	21.059	ug/l	98
79) 2-Chlorotoluene	13.82	91	450701	22.499	ug/l	93
80) 1,3,5-Trimethylbenzene	14.22	105	535529	21.147	ug/l	98
81) trans-1,4-Dichloro-2-buten	13.46	75	40121	21.030	ug/l	97
82) 4-Chlorotoluene	13.93	91	502935	23.090	ug/l	89
83) tert-Butylbenzene	14.17	119	606171	20.736	ug/l	98
84) 1,2,4-Trimethylbenzene	14.22	105	535529	21.147	ug/l	98
85) sec-Butylbenzene	14.35	105	670058	21.577	ug/l	99
86) p-Isopropyltoluene	14.48	119	622817	23.717	ug/l	98
87) 1,3-Dichlorobenzene	14.44	146	328128	21.680	ug/l	98
88) 1,4-Dichlorobenzene	14.52	146	321448	21.779	ug/l	93
89) n-Butylbenzene	14.79	91	541536	22.468	ug/l	99
90) Hexachloroethane	14.99	117	147849	19.929	ug/l	72
91) 1,2-Dichlorobenzene	14.80	146	282823	22.782	ug/l	96
92) 1,2-Dibromo-3-Chloropropan	15.37	75	15380	20.620	ug/l	96

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Response via : Initial Calibration

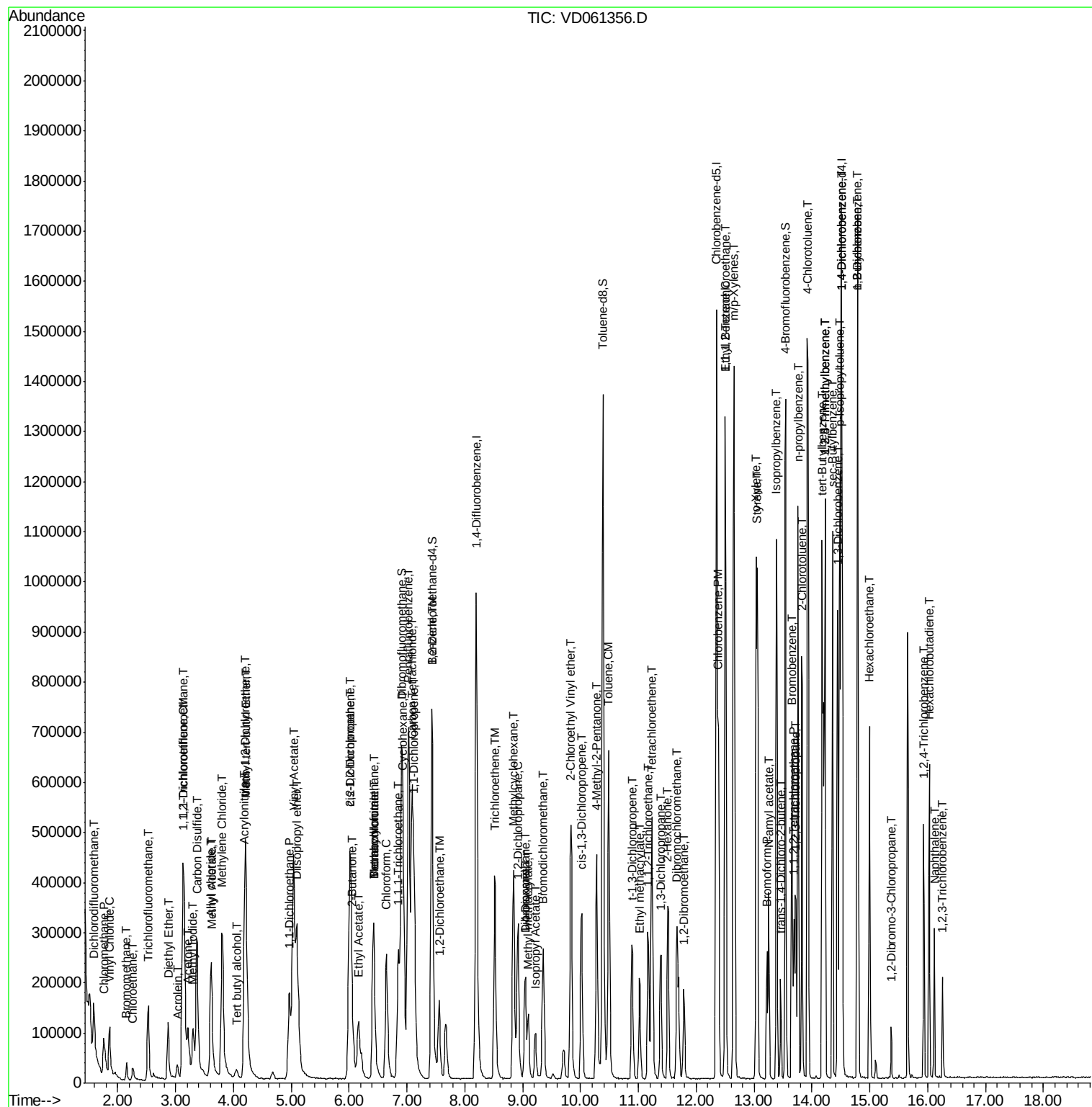
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.93	180	132213	23.379	ug/l	95
94) Hexachlorobutadiene	16.03	225	102738	23.249	ug/l	95
95) Naphthalene	16.11	128	204397	23.712	ug/l	99
96) 1,2,3-Trichlorobenzene	16.26	180	57895	23.265	ug/l	91

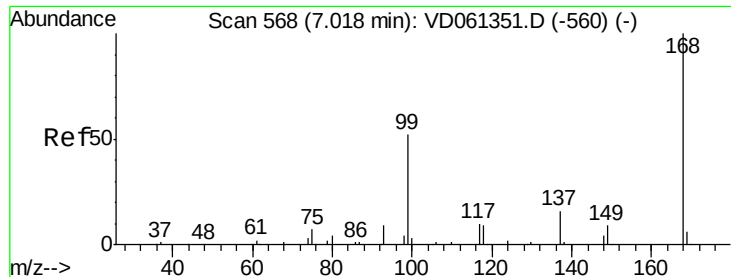
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.03 min Scan# 569

Delta R.T. 0.01 min

Lab File: VD061356.D

Acq: 27 Mar 2019 16:33

Instrument :

MSVOA_D

ClientSampleId :

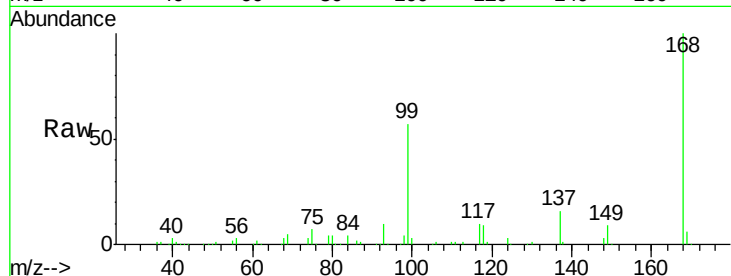
VD0327SBS01

Tot Ion:168 Resp: 754872

Ion Ratio Lower Upper

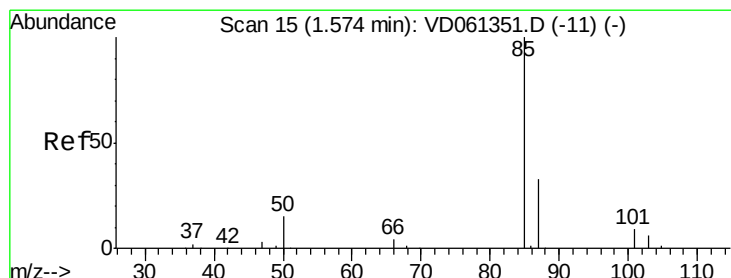
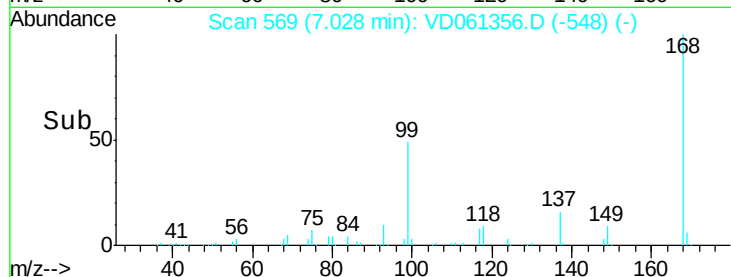
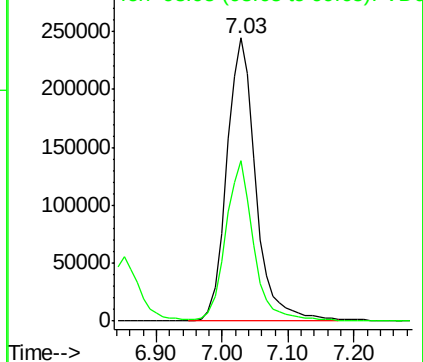
168 100

99 56.6 43.1 64.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#2

Dichlorodifluoromethane

Concen: 20.531 ug/l

RT: 1.58 min Scan# 16

Delta R.T. 0.01 min

Lab File: VD061356.D

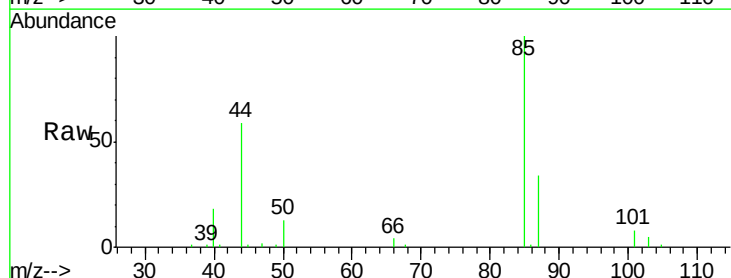
Acq: 27 Mar 2019 16:33

Tgt Ion: 85 Resp: 165511

Ion Ratio Lower Upper

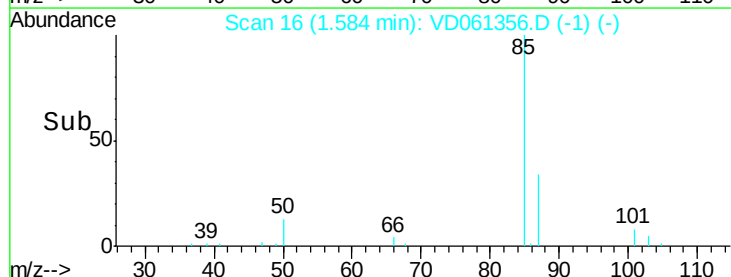
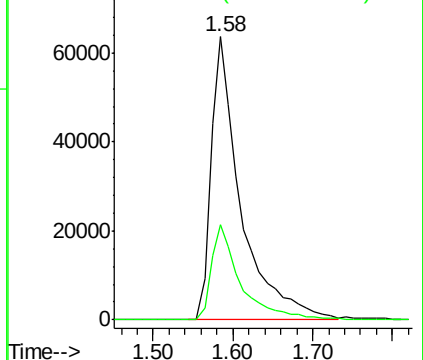
85 100

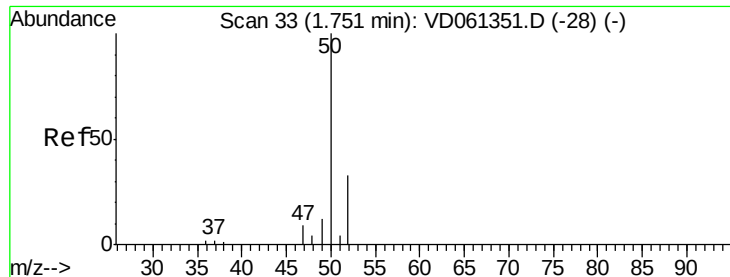
87 33.7 16.6 49.7



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC





#3

Chloromethane

Concen: 21.414 ug/l

RT: 1.76 min Scan# 34

Delta R.T. 0.01 min

Lab File: VD061356.D

Acq: 27 Mar 2019 16:33

Instrument :

MSVOA_D

ClientSampleId :

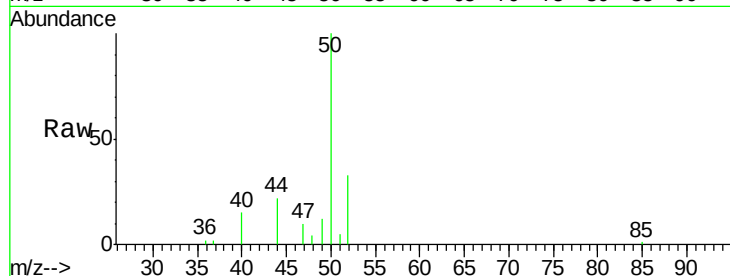
VD0327SBS01

Tot Ion: 50 Resp: 140792

Ion Ratio Lower Upper

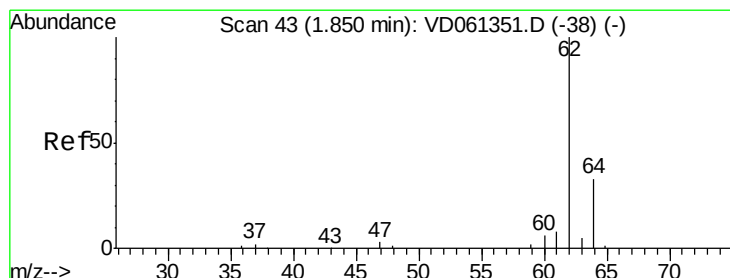
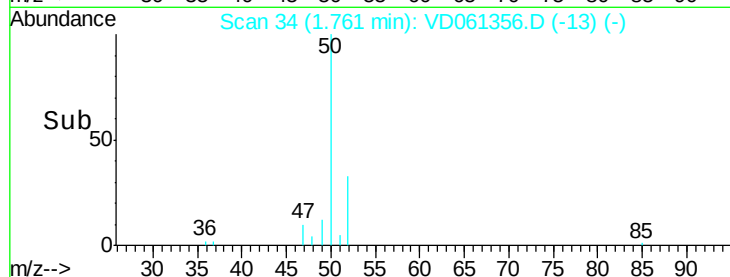
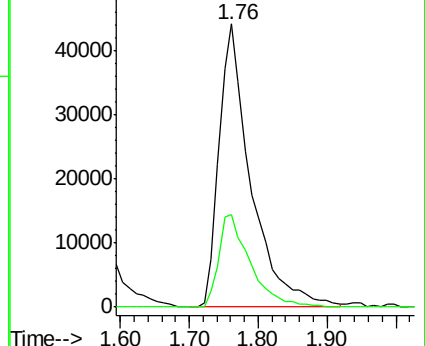
50 100

52 32.9 26.1 39.1



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 21.005 ug/l

RT: 1.86 min Scan# 44

Delta R.T. 0.01 min

Lab File: VD061356.D

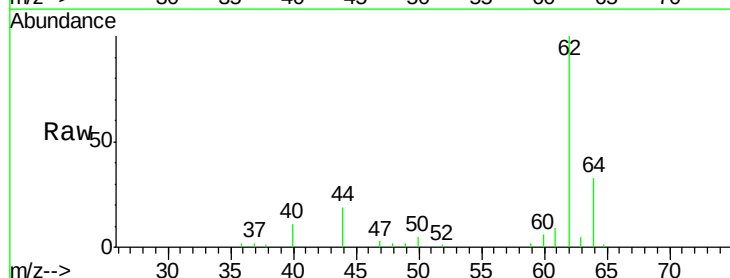
Acq: 27 Mar 2019 16:33

Tgt Ion: 62 Resp: 126801

Ion Ratio Lower Upper

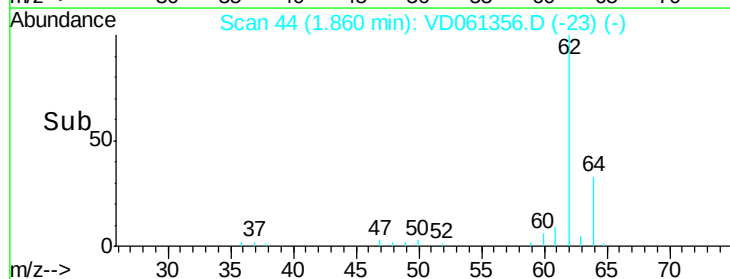
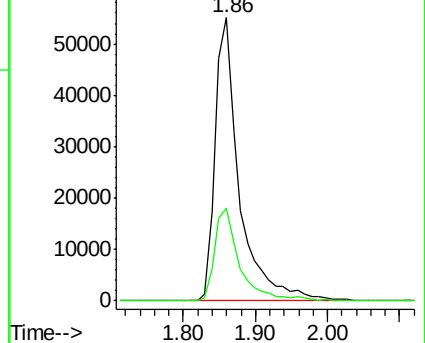
62 100

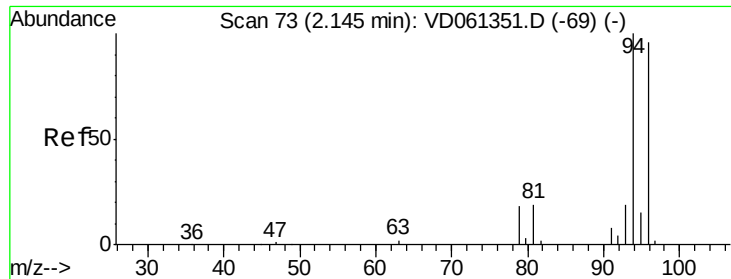
64 32.8 26.6 39.8



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC

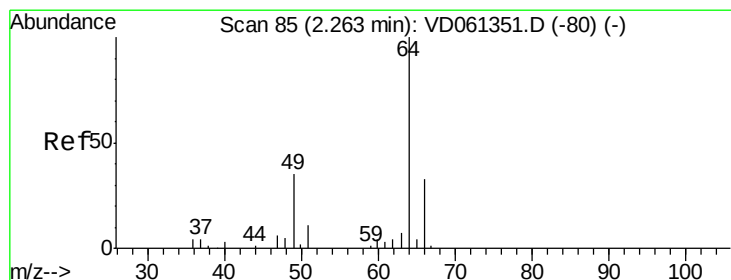
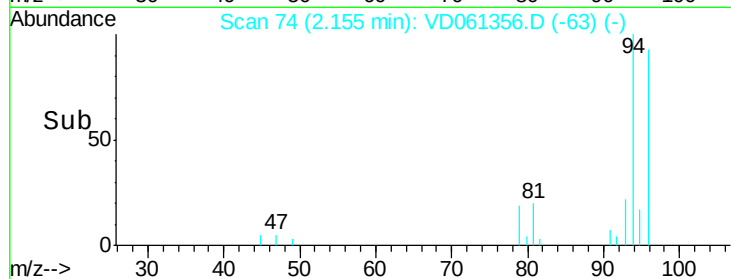
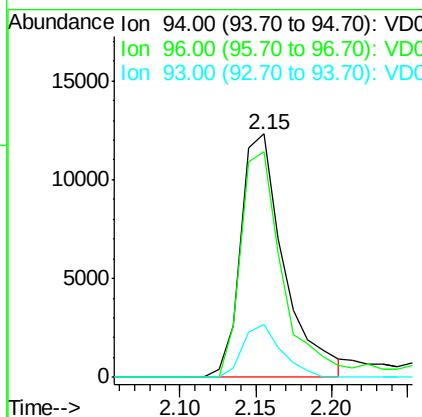
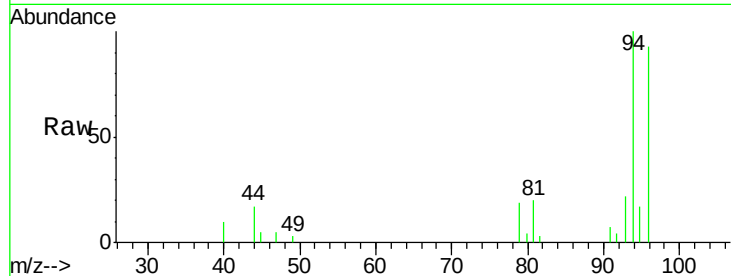




#5
Bromomethane
Concen: 20.484 ug/l
RT: 2.15 min Scan# 74
Delta R.T. 0.01 min
Lab File: VD061356.D
Acq: 27 Mar 2019 16:33

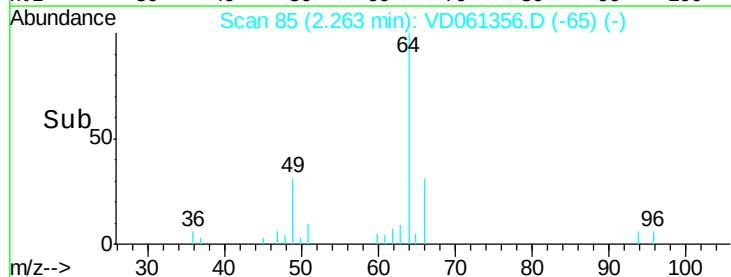
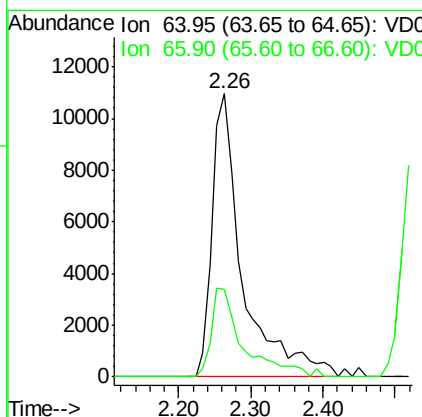
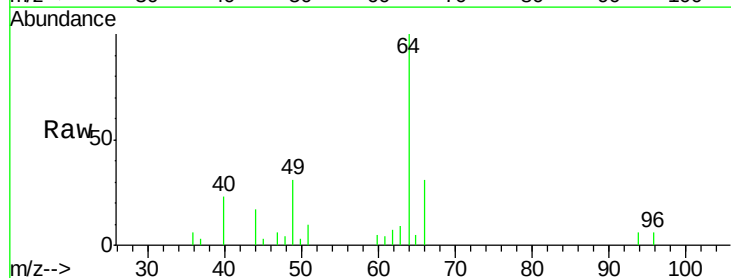
Instrument :
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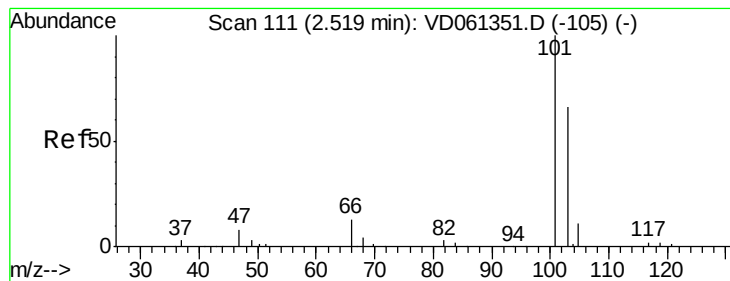
Tot Ion: 94 Resp: 24521
Ion Ratio Lower Upper
94 100
96 92.6 78.3 117.5
93 21.8 15.6 23.4



#6
Chloroethane
Concen: 17.984 ug/l
RT: 2.26 min Scan# 85
Delta R.T. 0.00 min
Lab File: VD061356.D
Acq: 27 Mar 2019 16:33

Tgt Ion: 64 Resp: 31838
Ion Ratio Lower Upper
64 100
66 30.8 26.2 39.2



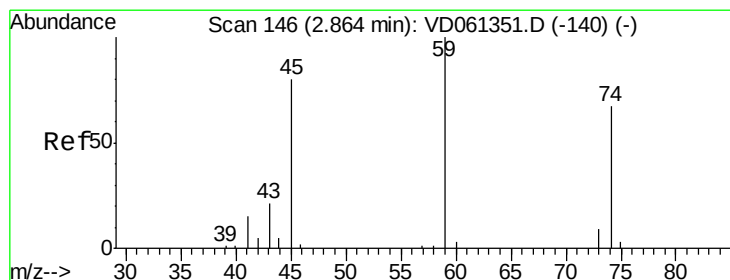
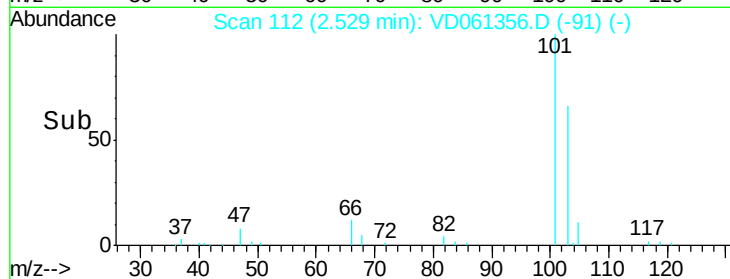
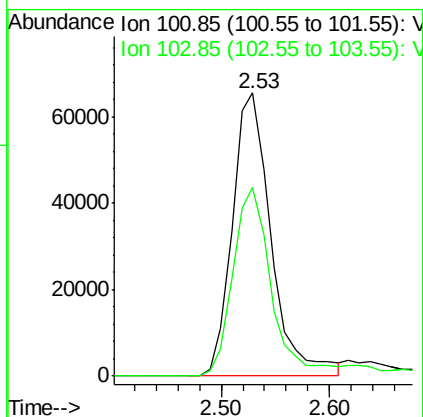
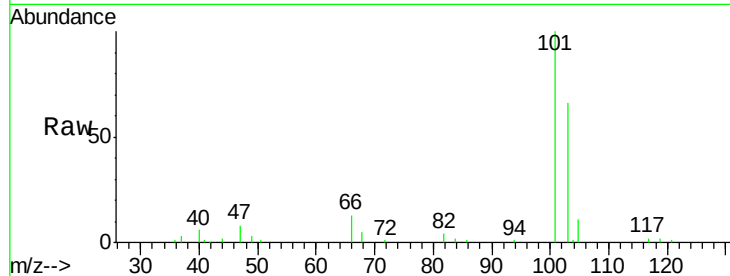


#7

Trichlorofluoromethane
 Concen: 18.526 ug/l
 RT: 2.53 min Scan# 112
 Delta R.T. 0.01 min
 Lab File: VD061356.D
 Acq: 27 Mar 2019 16:33

Instrument :
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 ClientSampleId :
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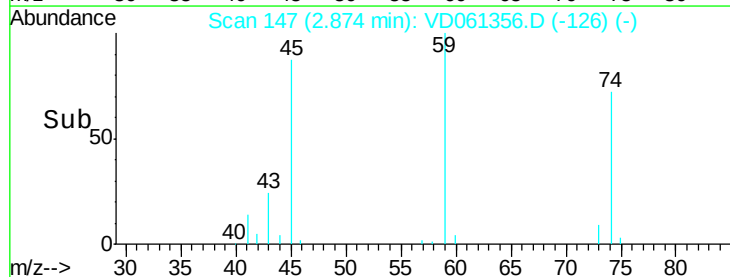
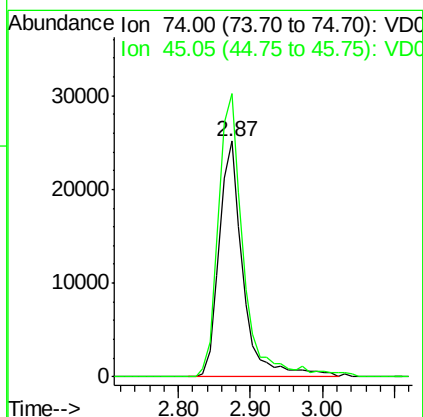
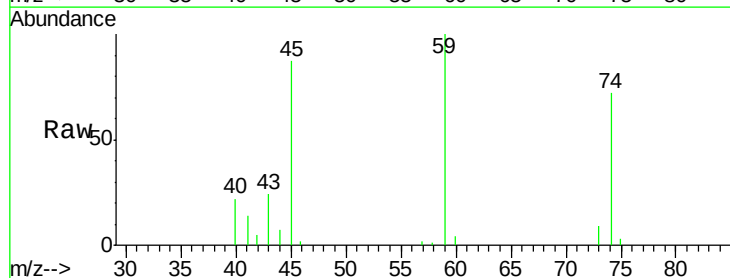
Tot Ion:101 Resp: 162629
 Ion Ratio Lower Upper
 101 100
 103 66.5 53.1 79.7

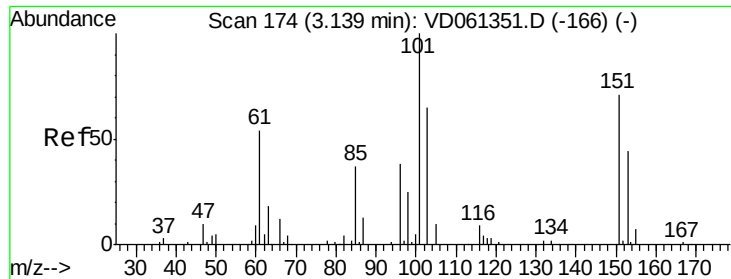


#8

Diethyl Ether
 Concen: 20.307 ug/l
 RT: 2.87 min Scan# 147
 Delta R.T. 0.01 min
 Lab File: VD061356.D
 Acq: 27 Mar 2019 16:33

Tgt Ion: 74 Resp: 57394
 Ion Ratio Lower Upper
 74 100
 45 120.2 59.7 179.1





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.703 ug/l

RT: 3.15 min Scan# 175

Delta R.T. 0.01 min

Lab File: VD061356.D

Acq: 27 Mar 2019 16:33

Instrument :

MSVOA_D

ClientSampleId :

VD0327SBS01

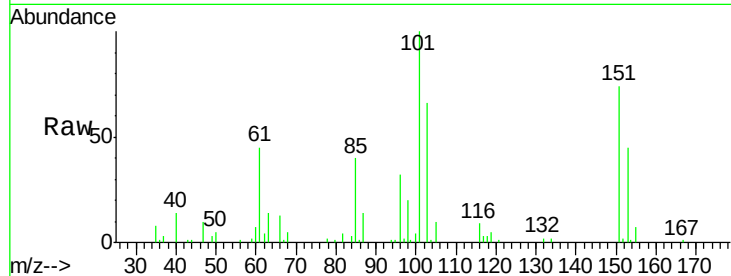
Tot Ion:101 Resp: 195380

Ion Ratio Lower Upper

101 100

85 40.0 29.4 44.0

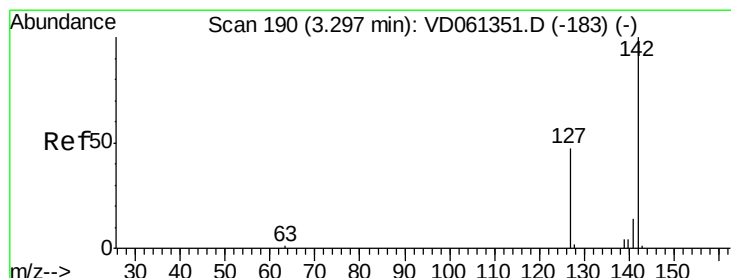
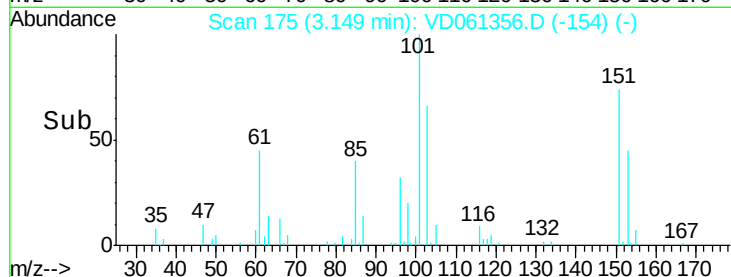
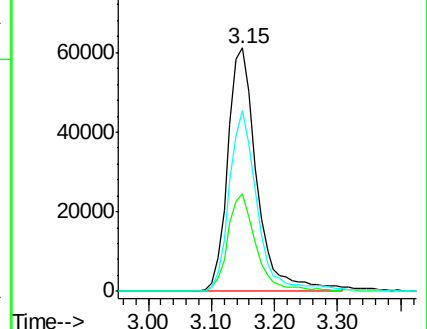
151 74.2 57.0 85.4



Abundance Ion 100.85 (100.55 to 101.55): V

Ion 84.95 (84.65 to 85.65): V

Ion 150.90 (150.60 to 151.60): V



#10

Methyl Iodide

Concen: 17.407 ug/l

RT: 3.31 min Scan# 191

Delta R.T. 0.01 min

Lab File: VD061356.D

Acq: 27 Mar 2019 16:33

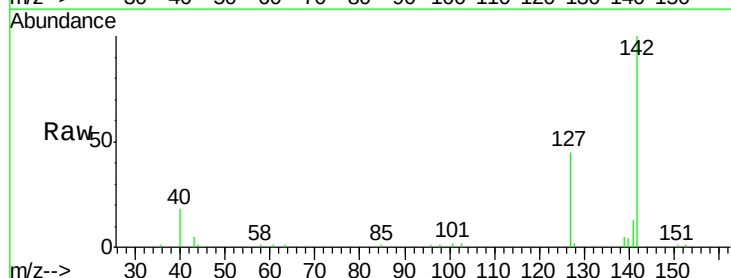
Tgt Ion:142 Resp: 214910

Ion Ratio Lower Upper

142 100

127 44.6 37.7 56.5

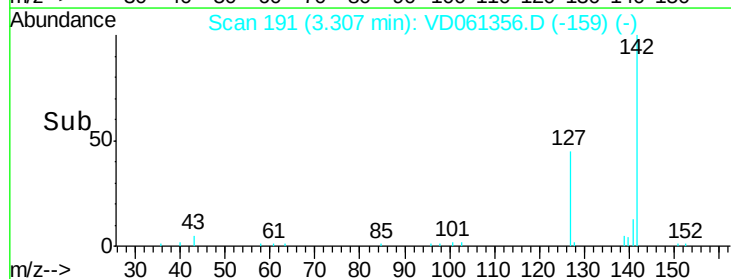
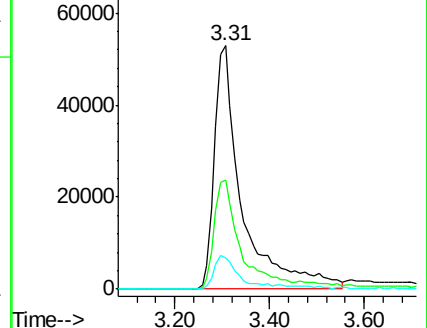
141 12.6 11.5 17.3

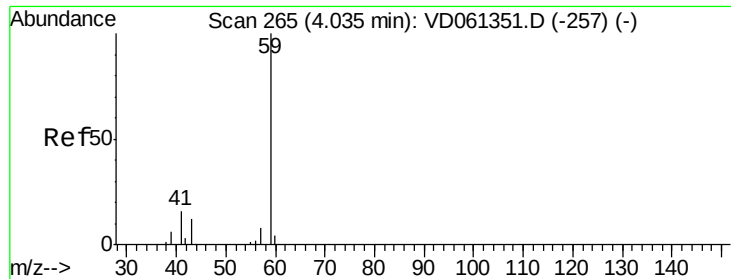


Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V

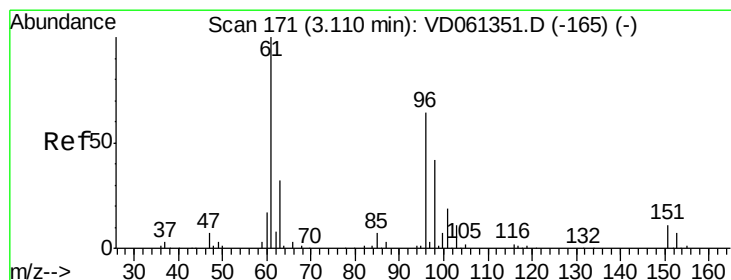
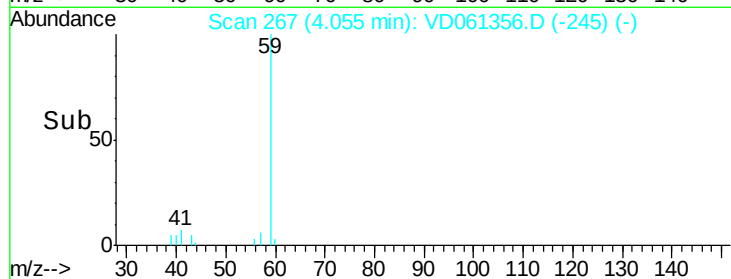
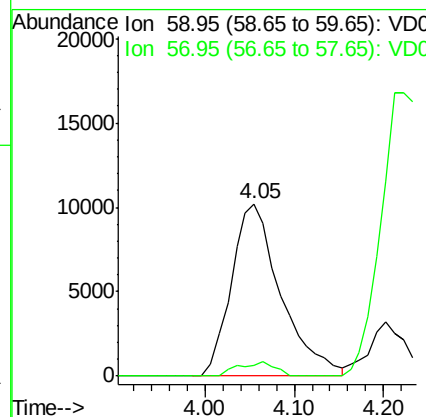
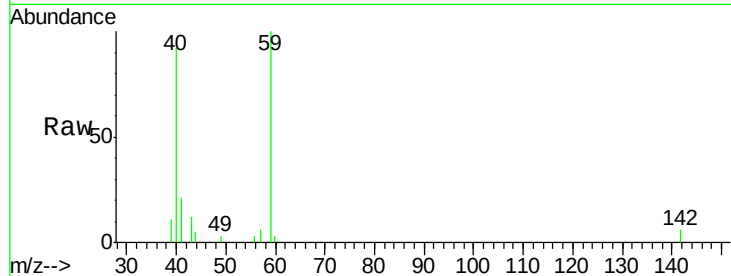




#11
Tert butyl alcohol
Concen: 97.999 ug/l
RT: 4.05 min Scan# 267
Delta R.T. 0.02 min
Lab File: VD061356.D
Acq: 27 Mar 2019 16:33

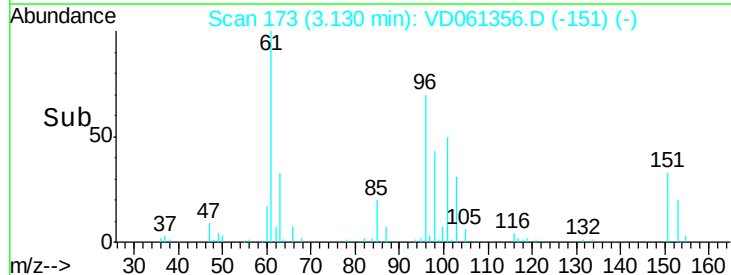
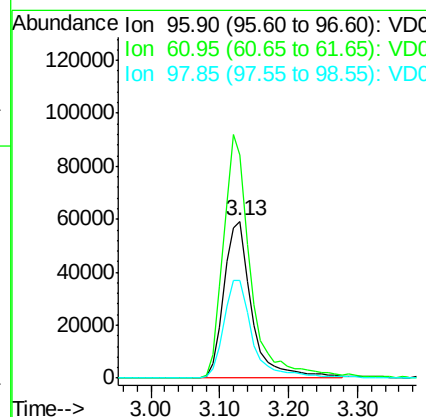
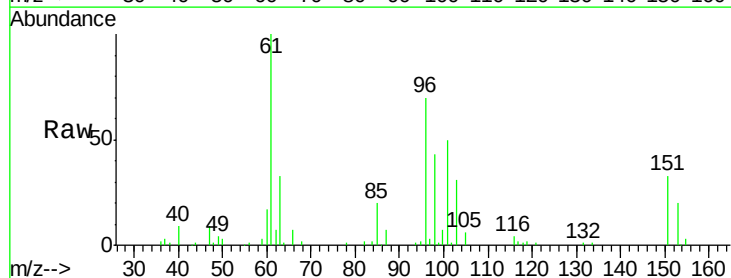
Instrument :
MSVOA_D
ClientSampleId :
VD0327SBS01

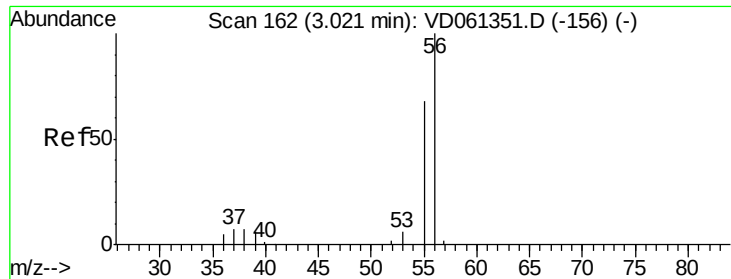
Tot Ion: 59 Resp: 39355
Ion Ratio Lower Upper
59 100
57 5.9 6.7 10.1#



#12
1,1-Dichloroethene
Concen: 20.514 ug/l
RT: 3.13 min Scan# 173
Delta R.T. 0.02 min
Lab File: VD061356.D
Acq: 27 Mar 2019 16:33

Tgt Ion: 96 Resp: 166216
Ion Ratio Lower Upper
96 100
61 142.8 124.9 187.3
98 62.0 52.5 78.7





#13

Acrolein

Concen: 99.622 ug/l

RT: 3.03 min Scan# 163

Delta R.T. 0.01 min

Lab File: VD061356.D

Acq: 27 Mar 2019 16:33

Instrument :

MSVOA_D

ClientSampleId :

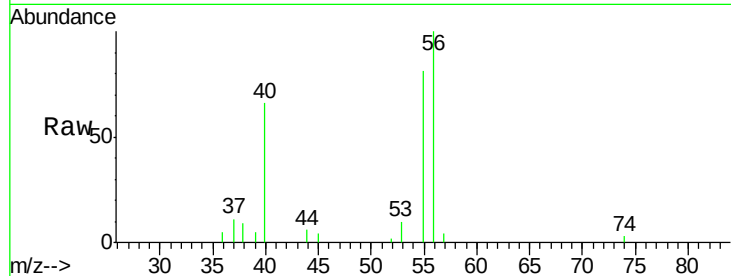
VD0327SBS01

Tot Ion: 56 Resp: 34699

Ion Ratio Lower Upper

56 100

55 80.6 54.6 82.0



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC

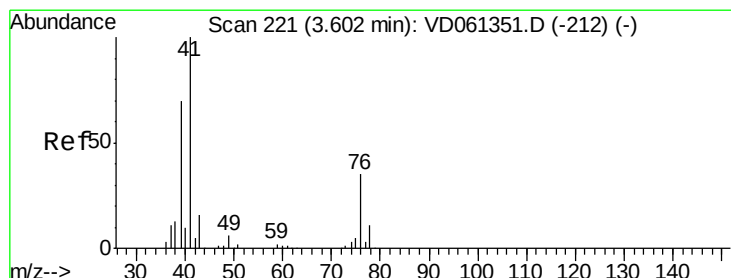
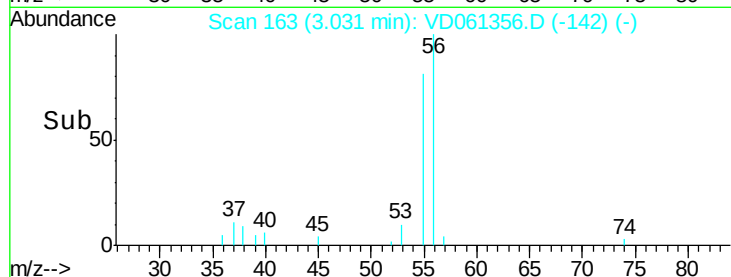
3.03

10000

5000

0

Time-->



#14

Allyl chloride

Concen: 20.552 ug/l

RT: 3.61 min Scan# 222

Delta R.T. 0.01 min

Lab File: VD061356.D

Acq: 27 Mar 2019 16:33

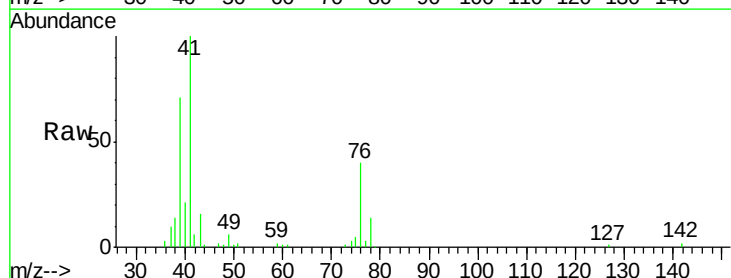
Tgt Ion: 41 Resp: 232257

Ion Ratio Lower Upper

41 100

39 71.5 55.6 83.4

76 39.6 31.0 46.6



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

3.61

100000

80000

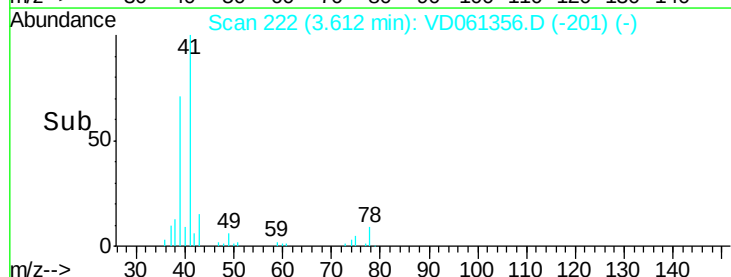
60000

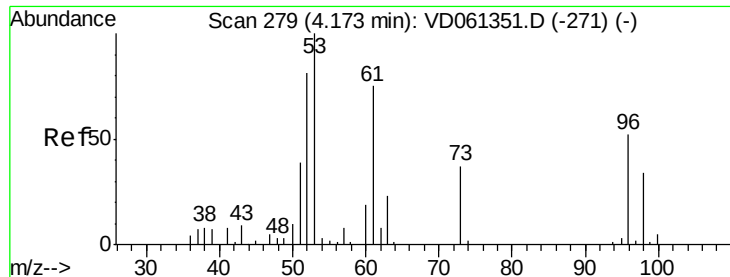
40000

20000

0

Time-->





#15

Acrylonitrile

Concen: 106.304 ug/l

RT: 4.18 min Scan# 280

Delta R.T. 0.01 min

Lab File: VD061356.D

Acq: 27 Mar 2019 16:33

Instrument :

MSVOA_D

ClientSampleId :

VD0327SBS01

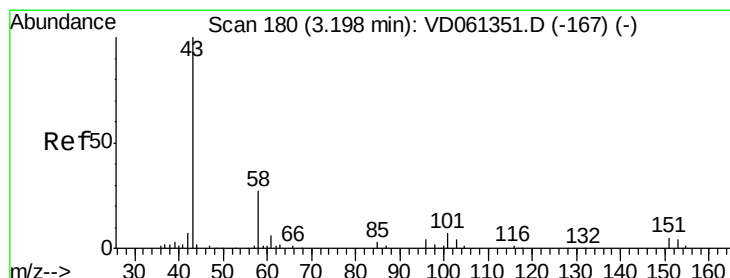
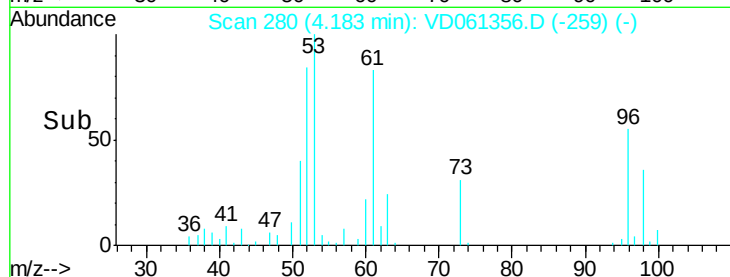
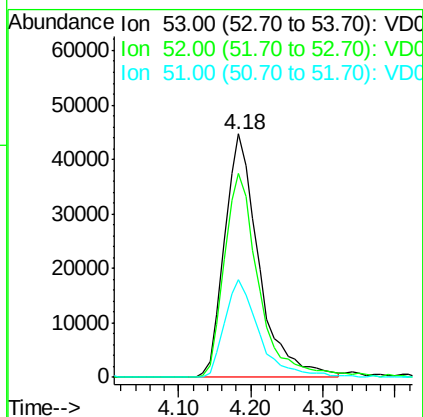
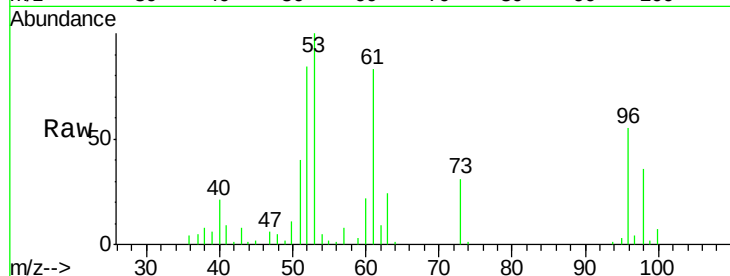
Tot Ion: 53 Resp: 148170

Ion Ratio Lower Upper

53 100

52 83.9 64.8 97.2

51 40.2 31.4 47.2



#16

Acetone

Concen: 100.419 ug/l

RT: 3.22 min Scan# 182

Delta R.T. 0.02 min

Lab File: VD061356.D

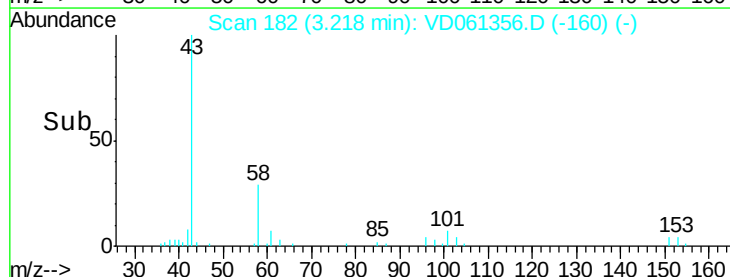
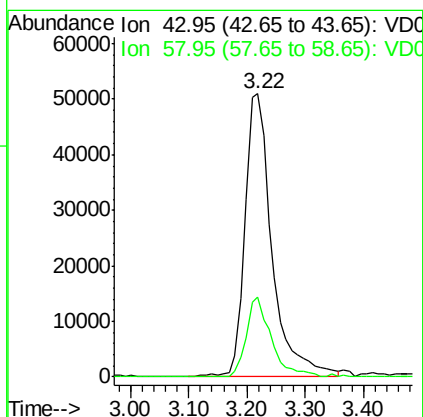
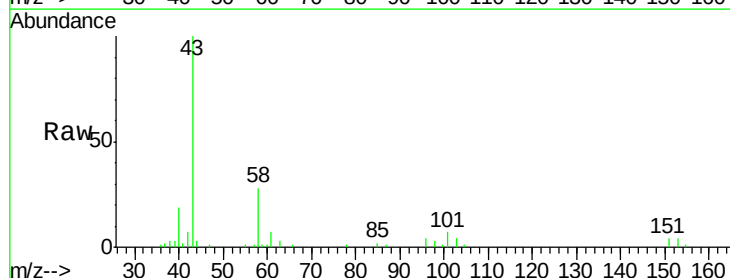
Acq: 27 Mar 2019 16:33

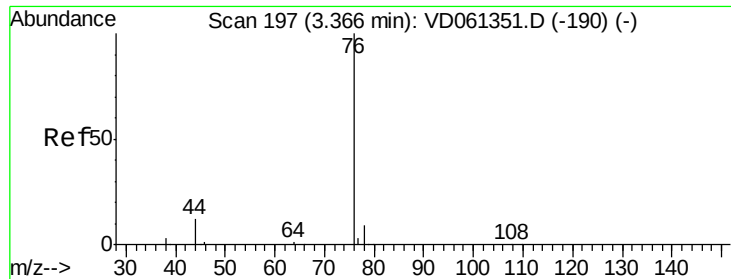
Tgt Ion: 43 Resp: 166462

Ion Ratio Lower Upper

43 100

58 28.3 21.5 32.3

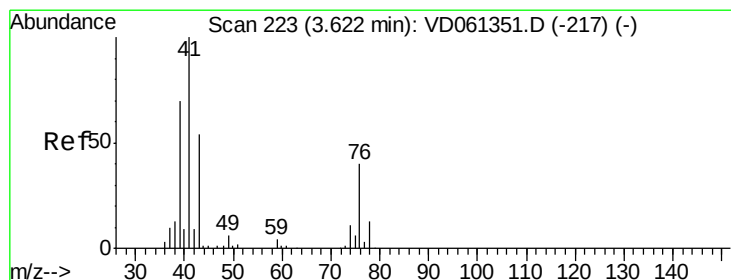
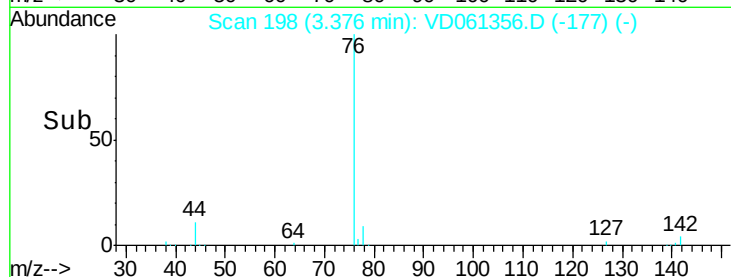
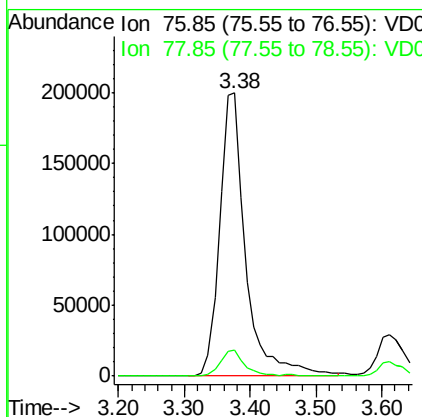
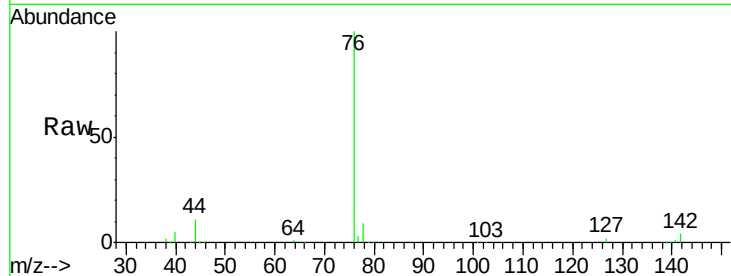




#17
Carbon Disulfide
Concen: 20.875 ug/l
RT: 3.38 min Scan# 198
Delta R.T. 0.01 min
Lab File: VD061356.D
Acq: 27 Mar 2019 16:33

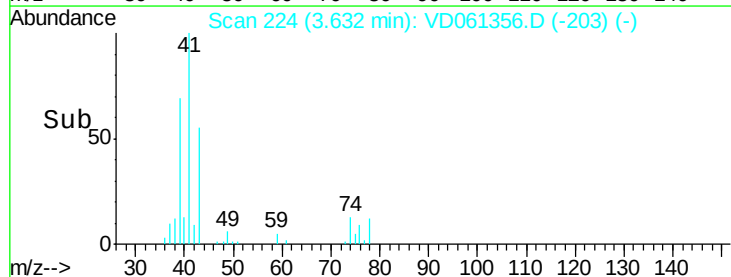
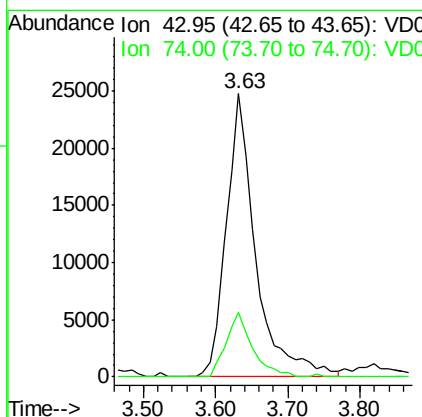
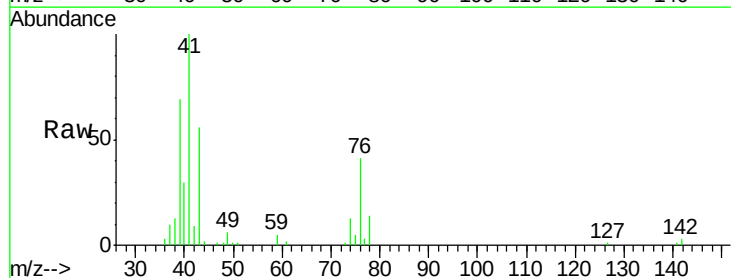
Instrument :
MSVOA_D
ClientSampleId :
VD0327SBS01

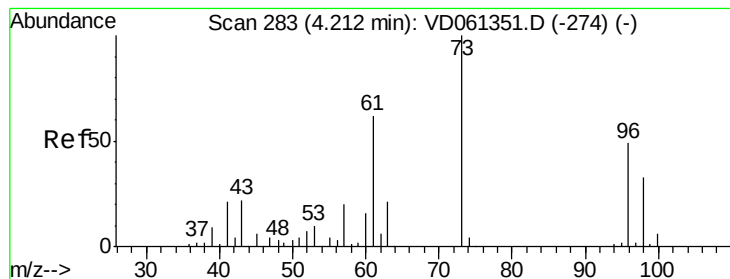
Tot Ion: 76 Resp: 549549
Ion Ratio Lower Upper
76 100
78 9.1 7.1 10.7



#18
Methyl Acetate
Concen: 20.110 ug/l
RT: 3.63 min Scan# 224
Delta R.T. 0.01 min
Lab File: VD061356.D
Acq: 27 Mar 2019 16:33

Tgt Ion: 43 Resp: 70089
Ion Ratio Lower Upper
43 100
74 22.6 16.7 25.1



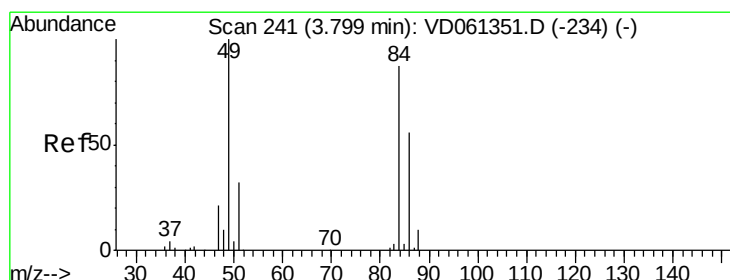
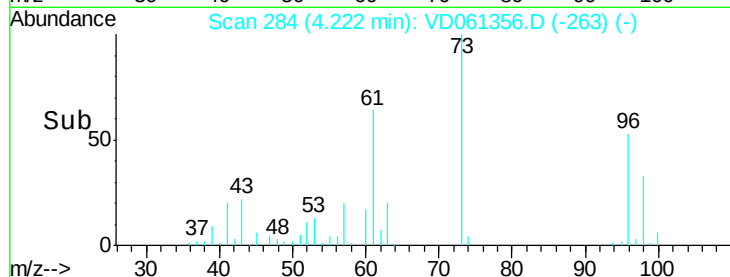
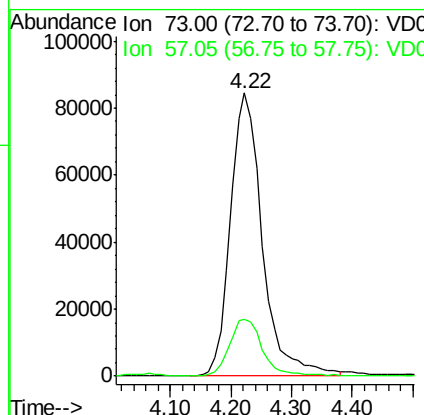
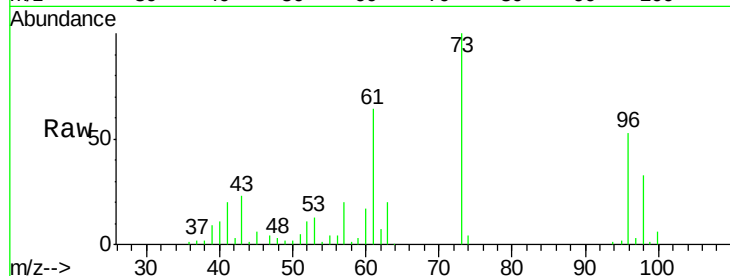


#19

Methyl tert-butyl Ether
 Concen: 22.122 ug/l
 RT: 4.22 min Scan# 284
 Delta R.T. 0.01 min
 Lab File: VD061356.D
 Acq: 27 Mar 2019 16:33

Instrument :
 MSVOA_D
 ClientSampleID :
 VD0327SBS01

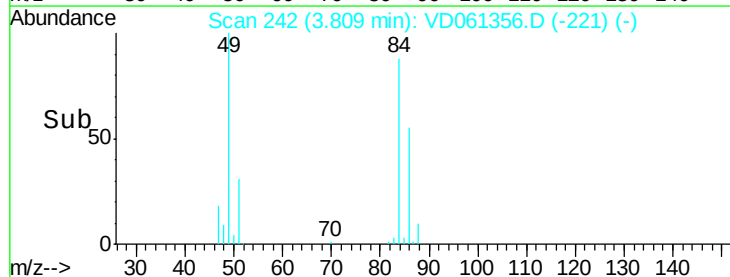
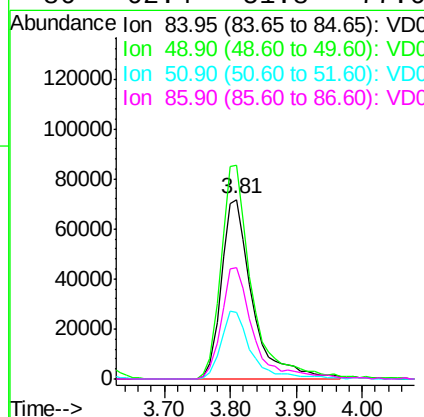
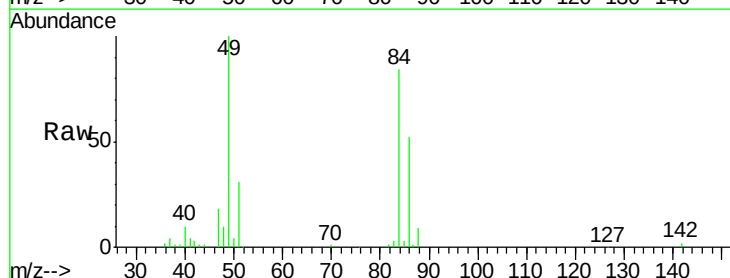
Tot Ion: 73 Resp: 310278
 Ion Ratio Lower Upper
 73 100
 57 19.9 16.4 24.6

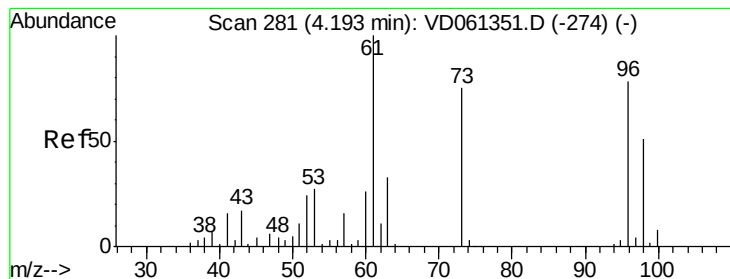


#20

Methylene Chloride
 Concen: 24.510 ug/l
 RT: 3.81 min Scan# 242
 Delta R.T. 0.01 min
 Lab File: VD061356.D
 Acq: 27 Mar 2019 16:33

Tgt Ion: 84 Resp: 236698
 Ion Ratio Lower Upper
 84 100
 49 119.0 91.8 137.8
 51 36.9 29.8 44.8
 86 62.4 51.8 77.6





#21

trans-1,2-Dichloroethene

Concen: 22.454 ug/l

RT: 4.20 min Scan# 282

Delta R.T. 0.01 min

Lab File: VD061356.D

Acq: 27 Mar 2019 16:33

Instrument :

MSVOA_D

ClientSampleId :

VD0327SBS01

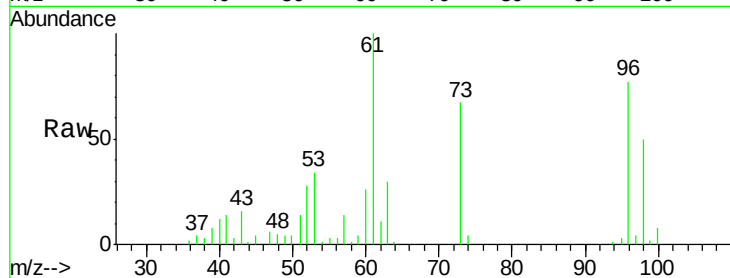
Tot Ion: 96 Resp: 196424

Ion Ratio Lower Upper

96 100

61 130.5 102.7 154.1

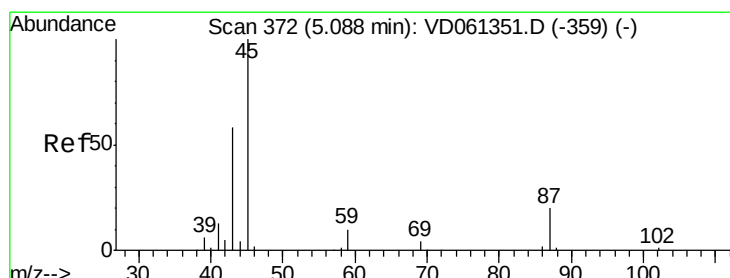
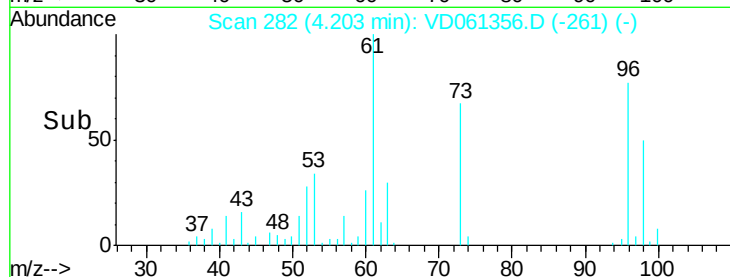
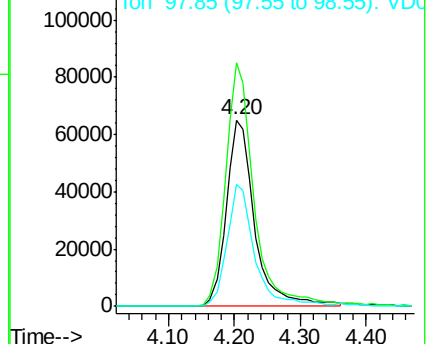
98 65.7 52.2 78.4



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: 20.969 ug/l

RT: 5.10 min Scan# 373

Delta R.T. 0.01 min

Lab File: VD061356.D

Acq: 27 Mar 2019 16:33

Tgt Ion: 45 Resp: 501475

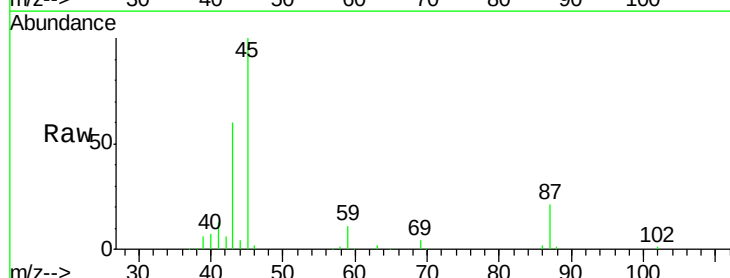
Ion Ratio Lower Upper

45 100

43 60.1 47.4 71.2

87 20.7 16.3 24.5

59 10.6 8.4 12.6

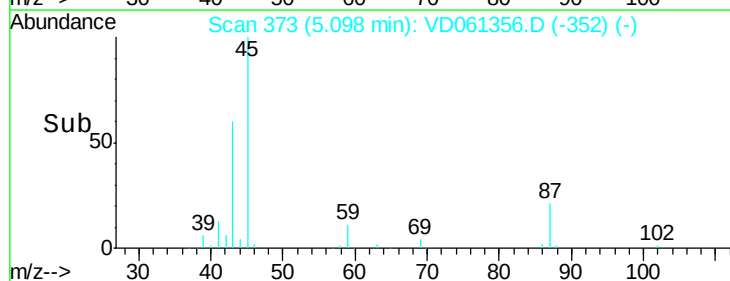
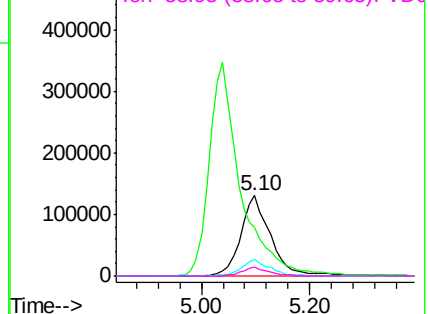


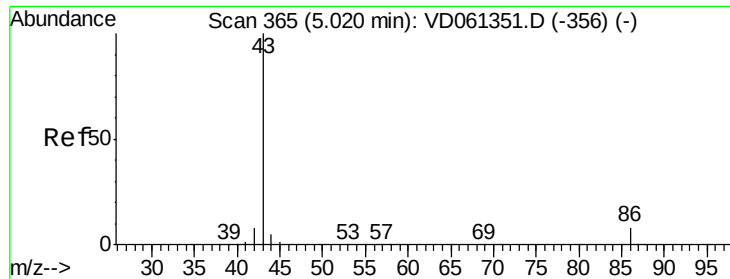
Abundance Ion 45.05 (44.75 to 45.75): VDC

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: 105.584 ug/l

RT: 5.04 min Scan# 367

Delta R.T. 0.02 min

Lab File: VD061356.D

Acq: 27 Mar 2019 16:33

Instrument :

MSVOA_D

ClientSampleId :

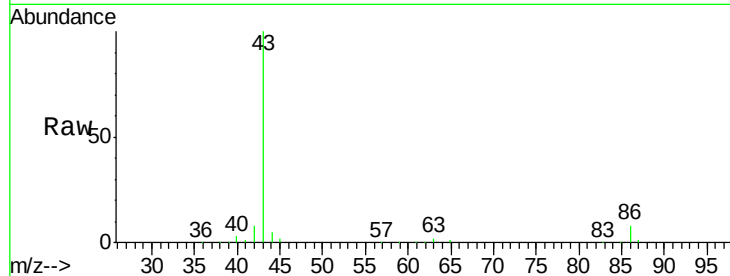
VD0327SBS01

Tot Ion: 43 Resp: 1371581

Ion Ratio Lower Upper

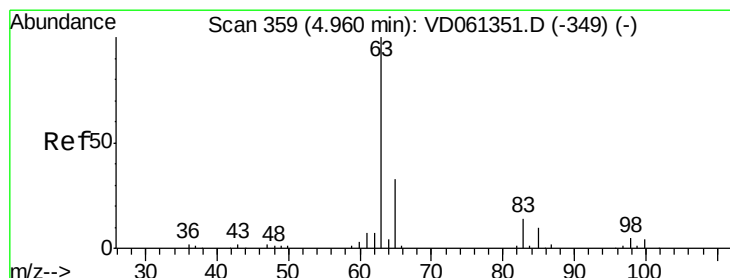
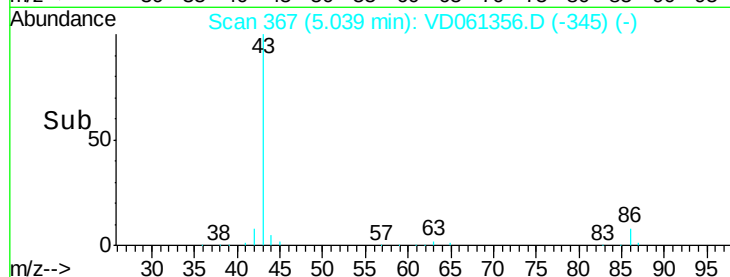
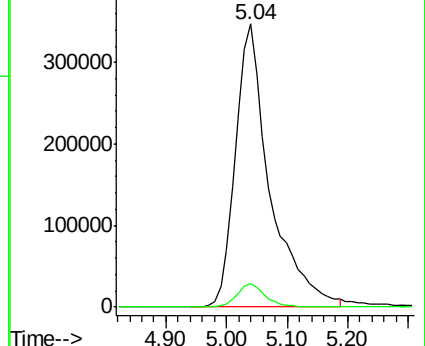
43 100

86 8.2 6.7 10.1



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 86.00 (85.70 to 86.70): VDC



#24

1,1-Dichloroethane

Concen: 21.858 ug/l

RT: 4.96 min Scan# 359

Delta R.T. 0.00 min

Lab File: VD061356.D

Acq: 27 Mar 2019 16:33

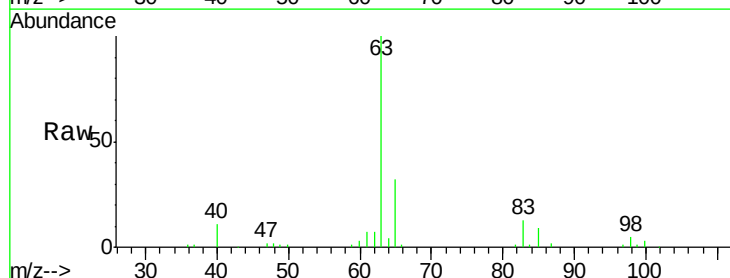
Tgt Ion: 63 Resp: 307210

Ion Ratio Lower Upper

63 100

98 4.9 2.6 8.0

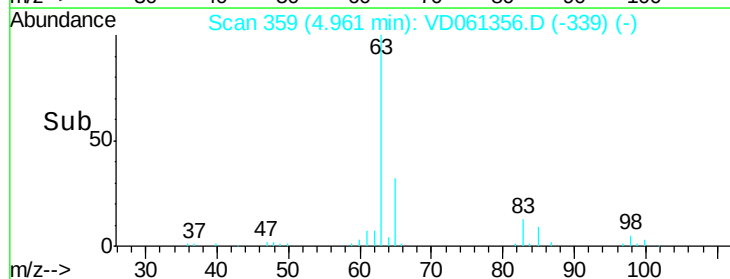
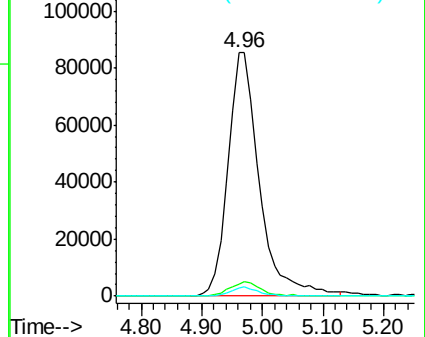
100 3.3 1.8 5.3

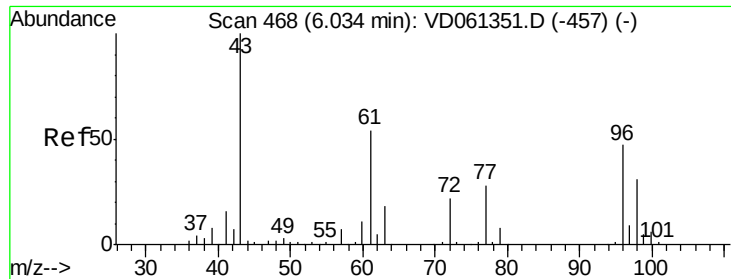


Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 97.95 (97.65 to 98.65): VDC

Ion 99.95 (99.65 to 100.65): VDC





#25

2-Butanone

Concen: 98.324 ug/l

RT: 6.05 min Scan# 470

Delta R.T. 0.02 min

Lab File: VD061356.D

Acq: 27 Mar 2019 16:33

Instrument :

MSVOA_D

ClientSampleId :

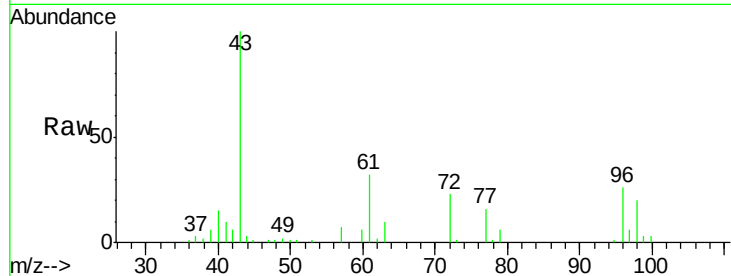
VD0327SBS01

Tot Ion: 43 Resp: 205026

Ion Ratio Lower Upper

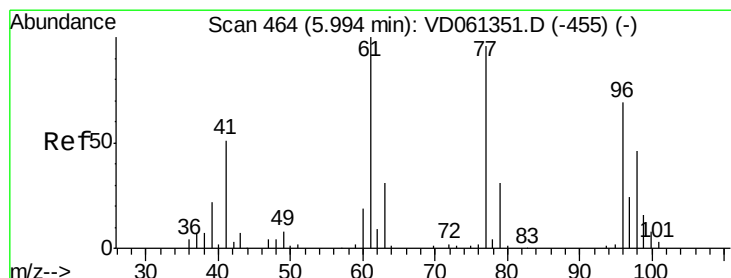
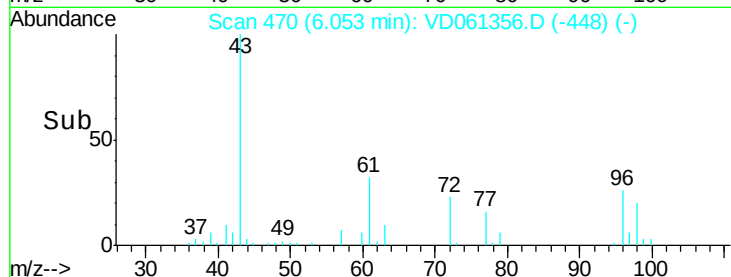
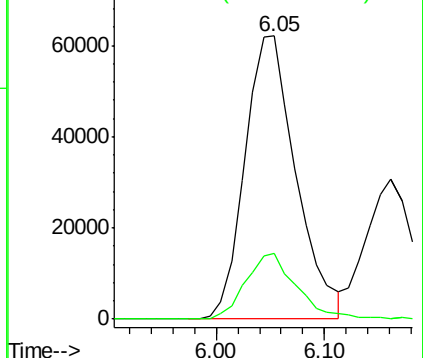
43 100

72 23.3 17.2 25.8



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 21.026 ug/l

RT: 6.01 min Scan# 466

Delta R.T. 0.02 min

Lab File: VD061356.D

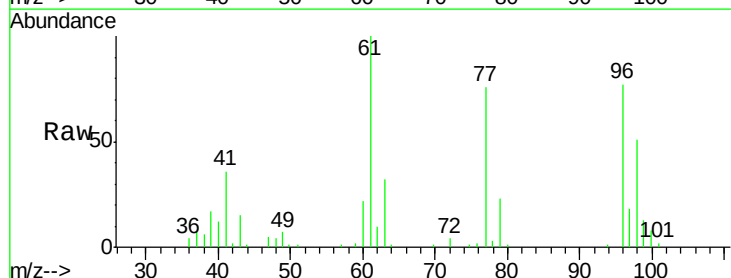
Acq: 27 Mar 2019 16:33

Tgt Ion: 77 Resp: 234909

Ion Ratio Lower Upper

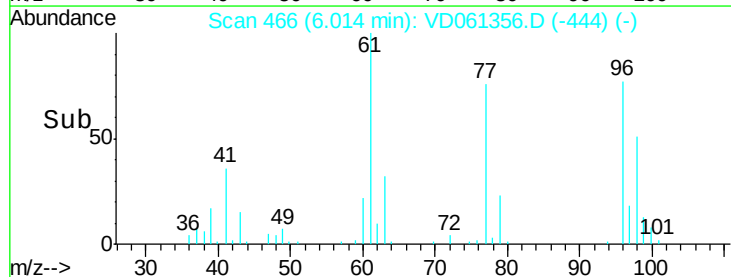
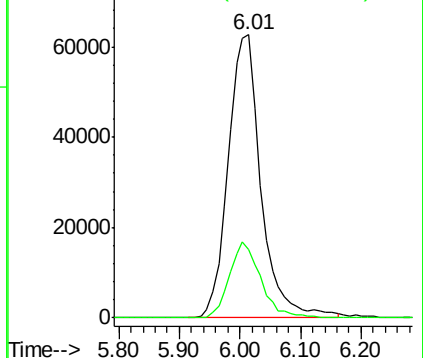
77 100

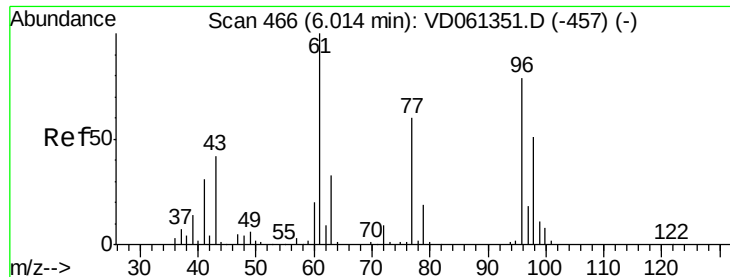
97 24.0 12.7 38.0



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC



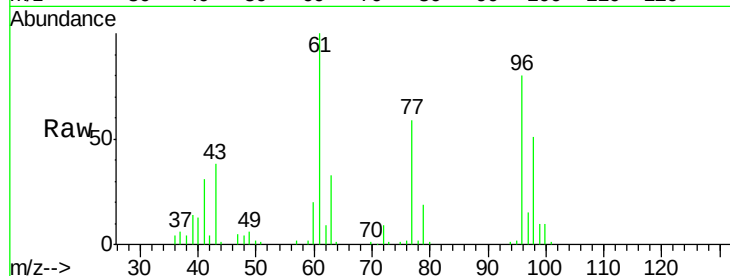


#27

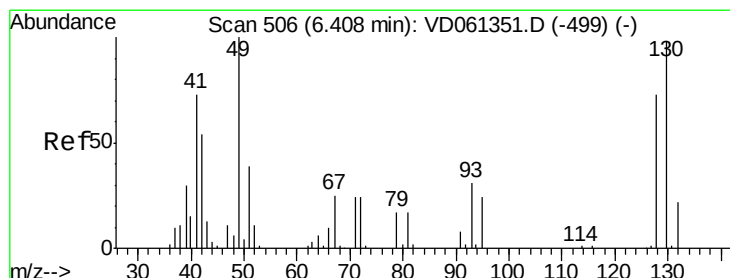
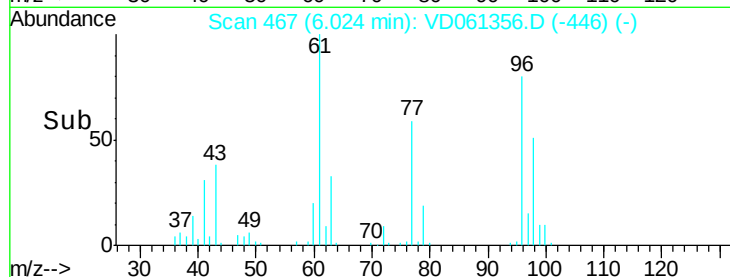
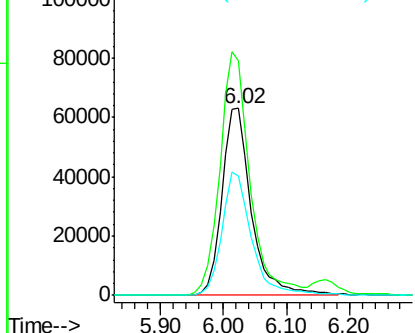
cis-1,2-Dichloroethene
Concen: 21.297 ug/l
RT: 6.02 min Scan# 467
Delta R.T. 0.01 min
Lab File: VD061356.D
Acq: 27 Mar 2019 16:33

Instrument :
MSVOA_D
ClientSampleId :
VD0327SBS01

Tot Ion: 96 Resp: 204114
Ion Ratio Lower Upper
96 100
61 125.4 0.0 251.6
98 64.3 0.0 129.2



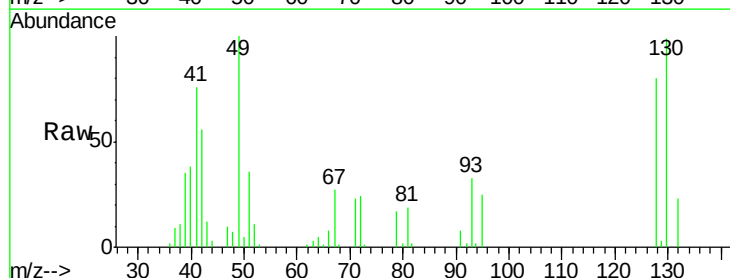
Abundance Ion 95.90 (95.60 to 96.60): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 97.85 (97.55 to 98.55): VDC



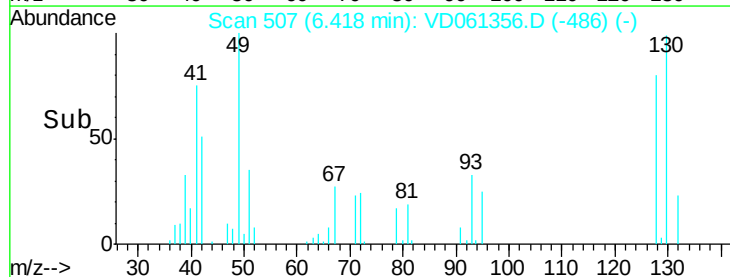
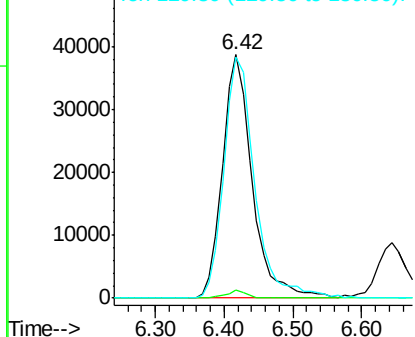
#28

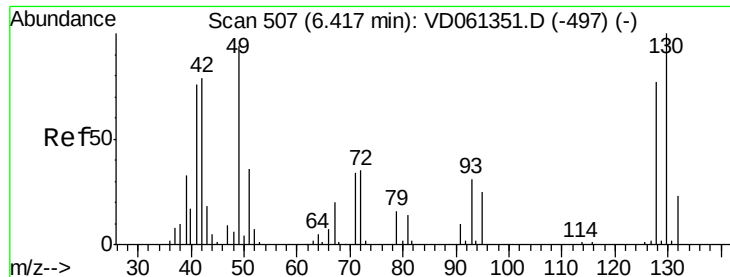
Bromochloromethane
Concen: 20.423 ug/l
RT: 6.42 min Scan# 507
Delta R.T. 0.01 min
Lab File: VD061356.D
Acq: 27 Mar 2019 16:33

Tgt Ion: 49 Resp: 115869
Ion Ratio Lower Upper
49 100
129 3.1 0.0 0.0#
130 98.9 78.4 117.6



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

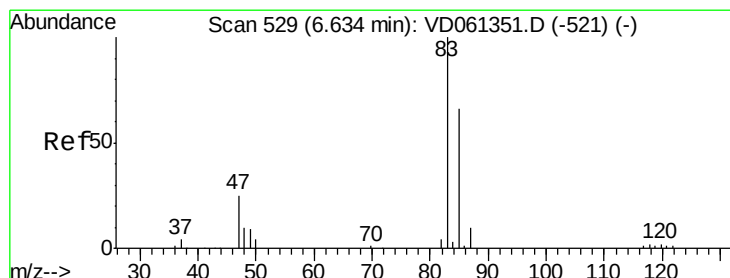
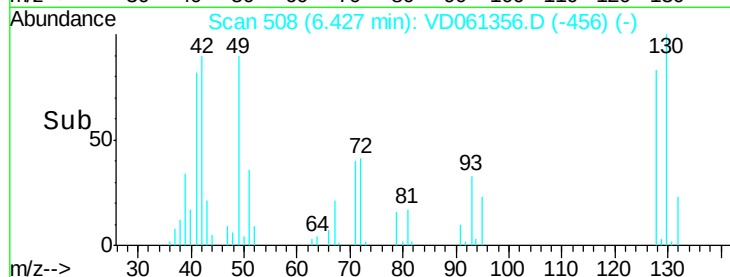
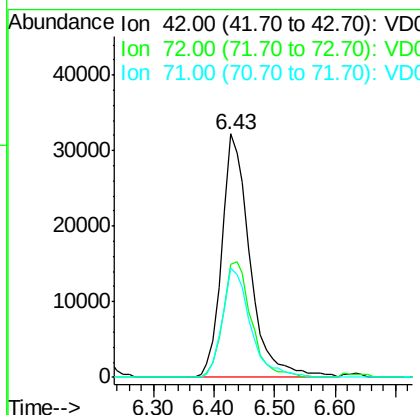
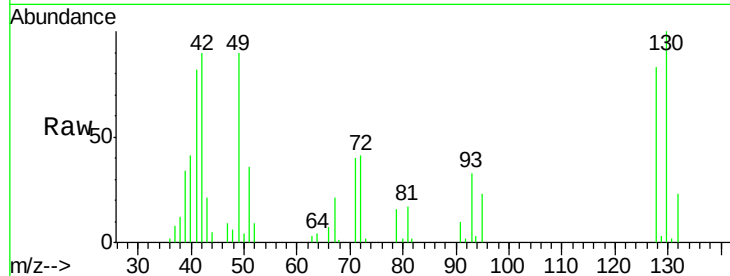




#29
Tetrahydrofuran
Concen: 102.780 ug/l
RT: 6.43 min Scan# 508
Delta R.T. 0.01 min
Lab File: VD061356.D
Acq: 27 Mar 2019 16:33

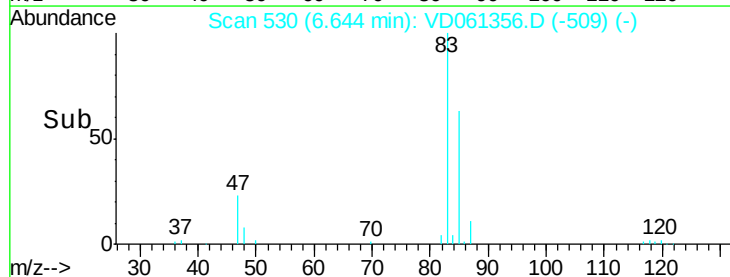
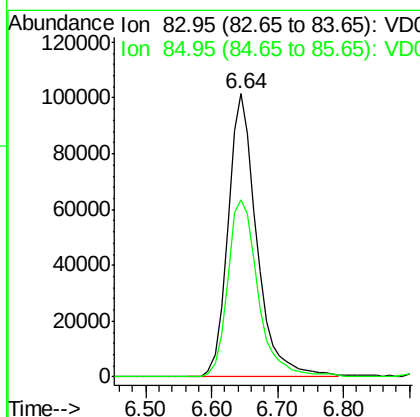
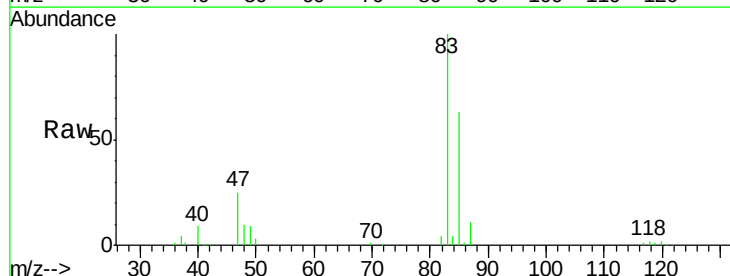
Instrument :
MSVOA_D
ClientSampleId :
VD0327SBS01

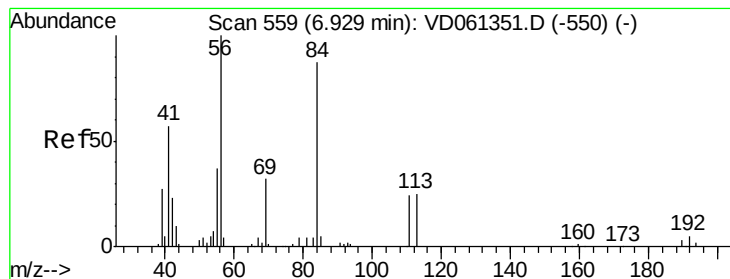
Tot Ion: 42 Resp: 103879
Ion Ratio Lower Upper
42 100
72 47.9 37.4 56.0
71 44.5 36.7 55.1



#30
Chloroform
Concen: 21.368 ug/l
RT: 6.64 min Scan# 530
Delta R.T. 0.01 min
Lab File: VD061356.D
Acq: 27 Mar 2019 16:33

Tgt Ion: 83 Resp: 310309
Ion Ratio Lower Upper
83 100
85 62.8 53.0 79.4





#31

Cyclohexane

Concen: 22.613 ug/l

RT: 6.94 min Scan# 560

Delta R.T. 0.01 min

Lab File: VD061356.D

Acq: 27 Mar 2019 16:33

Instrument :

MSVOA_D

ClientSampleId :

VD0327SBS01

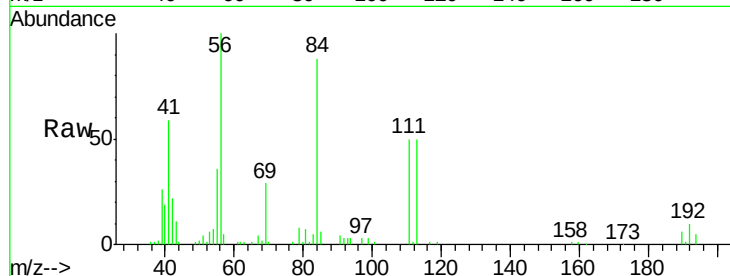
Tot Ion: 56 Resp: 251149

Ion Ratio Lower Upper

56 100

69 28.9 25.7 38.5

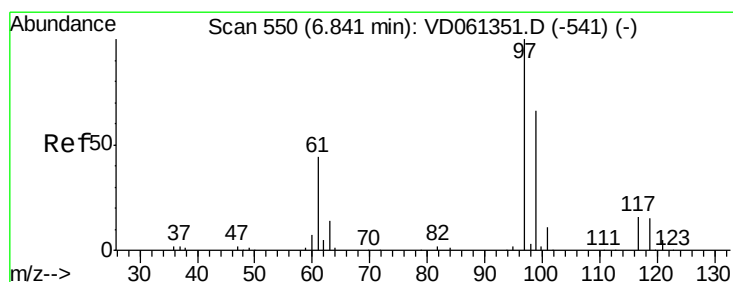
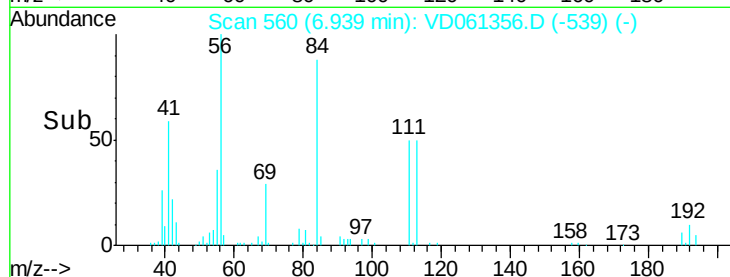
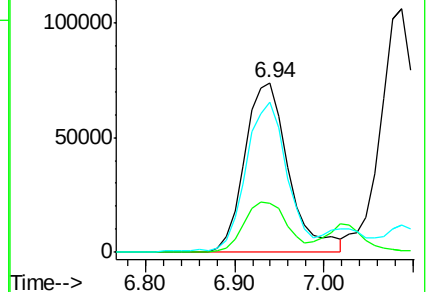
84 88.2 70.6 105.8



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 84.05 (83.75 to 84.75): VDC



#32

1,1,1-Trichloroethane

Concen: 20.964 ug/l

RT: 6.85 min Scan# 551

Delta R.T. 0.01 min

Lab File: VD061356.D

Acq: 27 Mar 2019 16:33

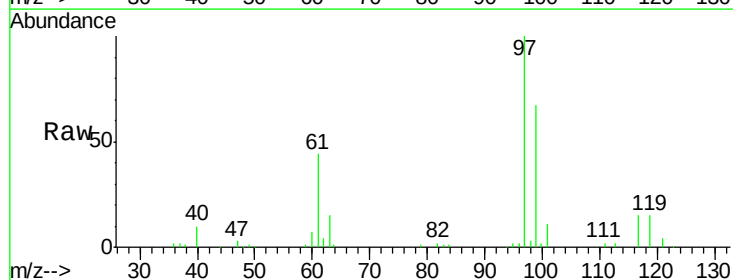
Tgt Ion: 97 Resp: 268588

Ion Ratio Lower Upper

97 100

99 66.7 53.1 79.7

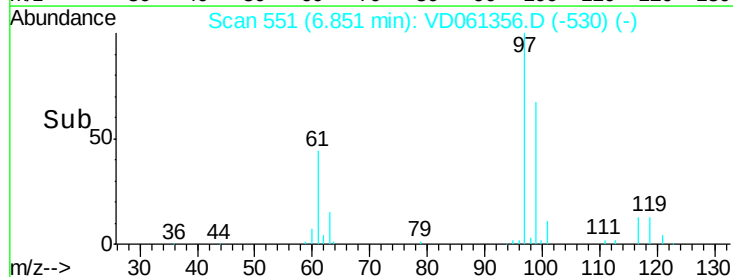
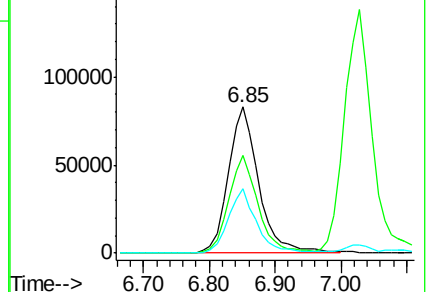
61 43.7 35.5 53.3

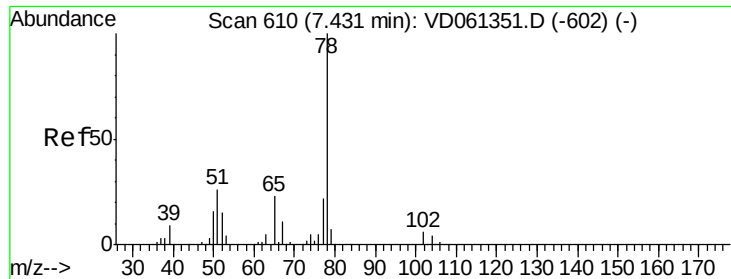


Abundance Ion 96.85 (96.55 to 97.55): VDC

Ion 98.85 (98.55 to 99.55): VDC

Ion 60.95 (60.65 to 61.65): VDC

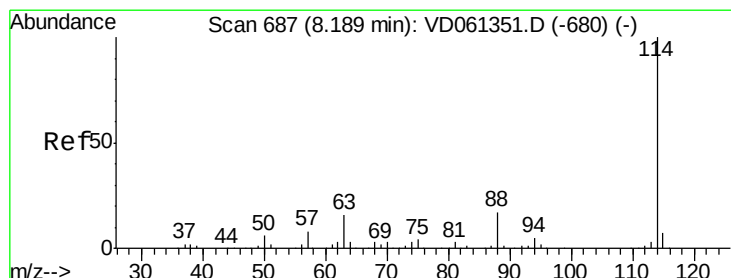
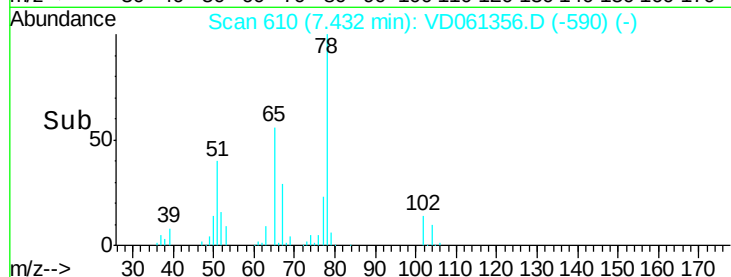
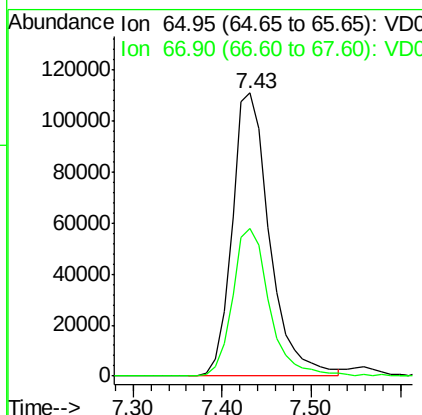
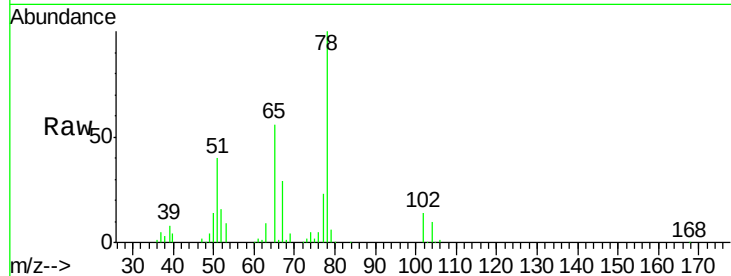




#33
 1,2-Dichloroethane-d4
 Concen: 20.964 ug/l
 RT: 7.43 min Scan# 610
 Delta R.T. 0.00 min
 Lab File: VD061356.D
 Acq: 27 Mar 2019 16:33

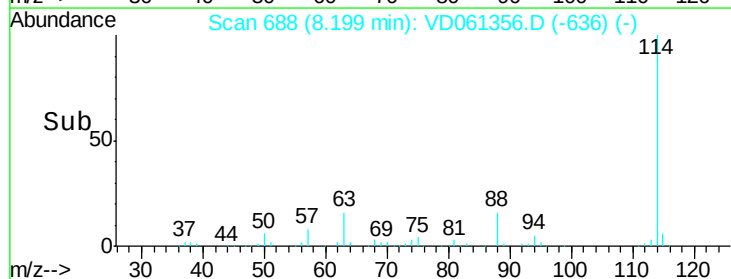
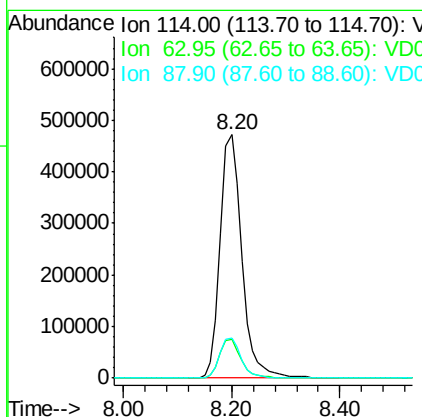
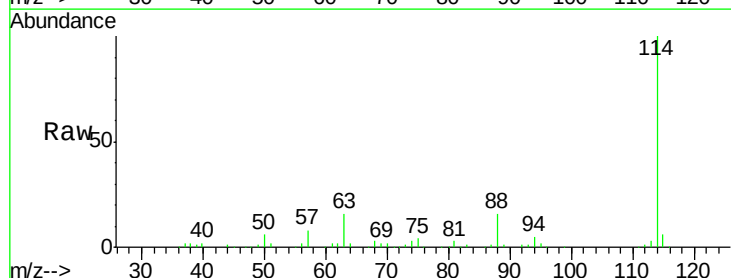
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0327SBS01

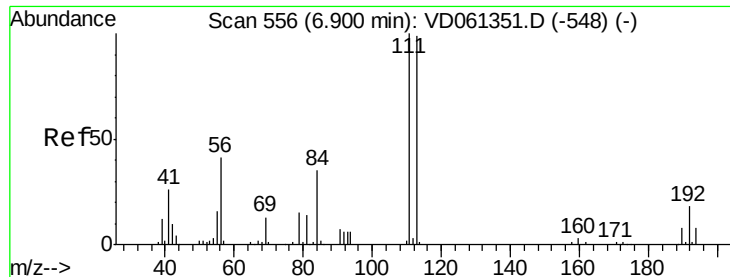
Tot Ion: 65 Resp: 325236
 Ion Ratio Lower Upper
 65 100
 67 52.0 0.0 99.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.20 min Scan# 688
 Delta R.T. 0.01 min
 Lab File: VD061356.D
 Acq: 27 Mar 2019 16:33

Tgt Ion: 114 Resp: 1316508
 Ion Ratio Lower Upper
 114 100
 63 16.0 0.0 31.6
 88 16.2 0.0 33.4





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 6.90 min Scan# 556

Delta R.T. 0.00 min

Lab File: VD061356.D

Acq: 27 Mar 2019 16:33

Instrument :

MSVOA_D

ClientSampleId :

VD0327SBS01

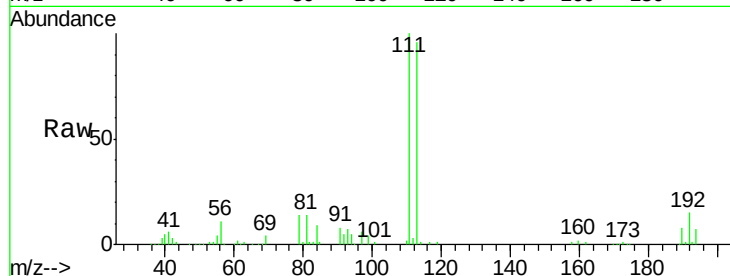
Tot Ion:113 Resp: 500128

Ion Ratio Lower Upper

113 100

111 104.6 81.0 121.6

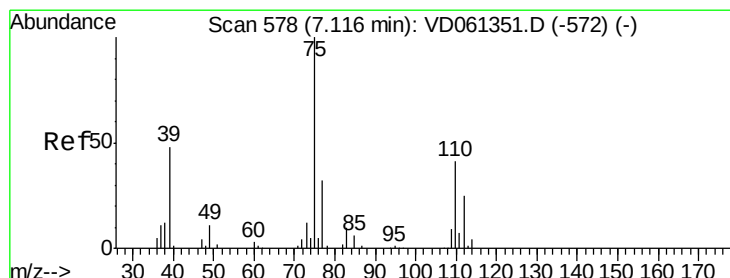
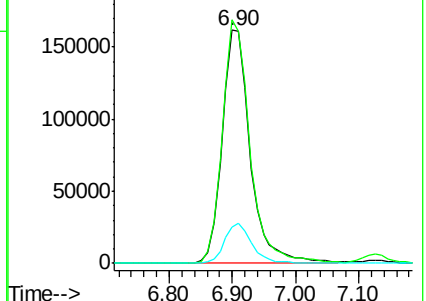
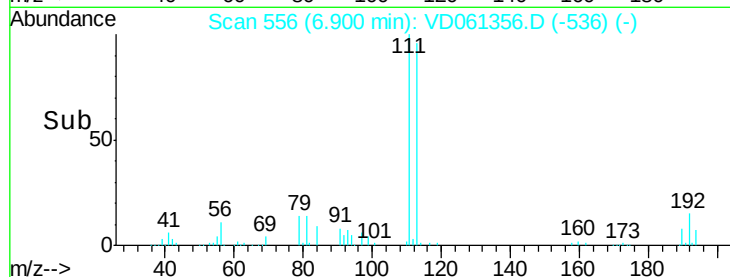
192 15.7 14.4 21.6



Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V



#36

1,1-Dichloropropene

Concen: 20.143 ug/l

RT: 7.13 min Scan# 579

Delta R.T. 0.01 min

Lab File: VD061356.D

Acq: 27 Mar 2019 16:33

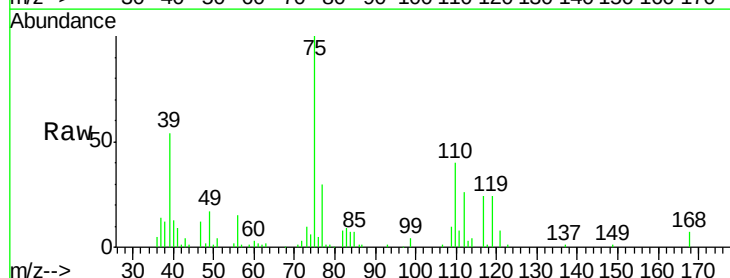
Tgt Ion: 75 Resp: 231443

Ion Ratio Lower Upper

75 100

110 40.3 20.4 61.3

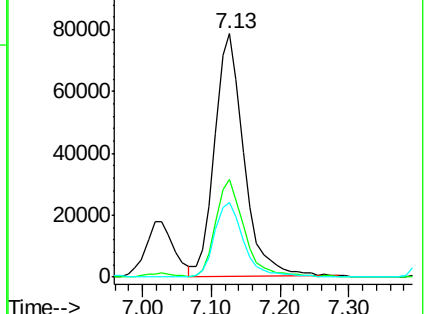
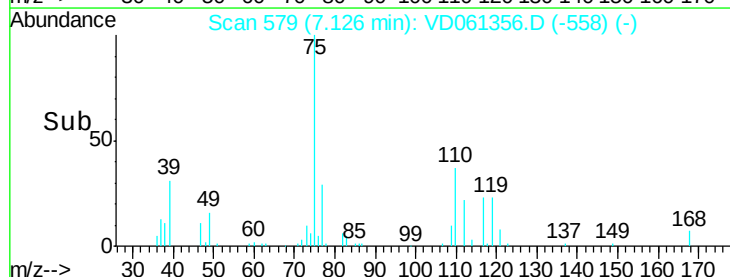
77 30.4 24.9 37.3

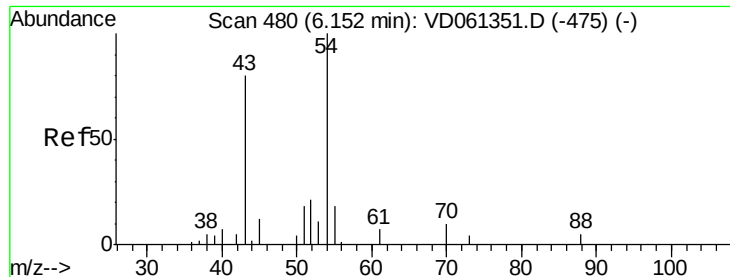


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V

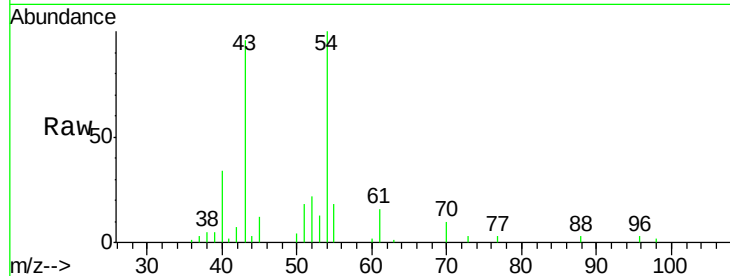




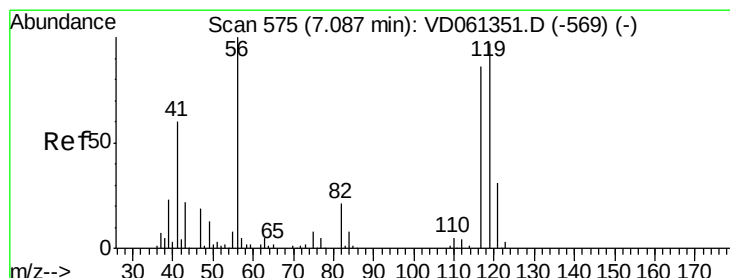
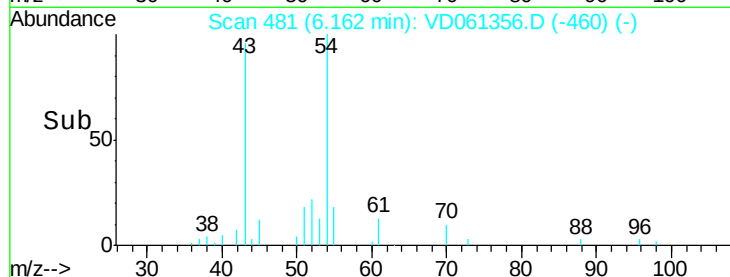
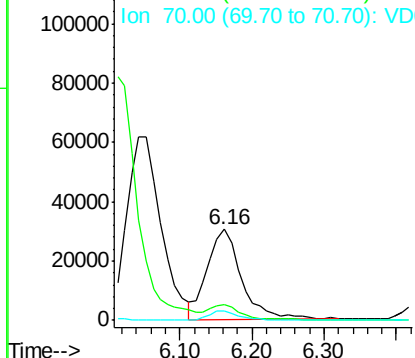
#37
Ethyl Acetate
Concen: 20.307 ug/l
RT: 6.16 min Scan# 481
Delta R.T. 0.01 min
Lab File: VD061356.D
Acq: 27 Mar 2019 16:33

Instrument :
MSVOA_D
ClientSampleId :
VD0327SBS01

Tot Ion: 43 Resp: 99792
Ion Ratio Lower Upper
43 100
61 16.8 13.8 20.8
70 10.7 7.8 11.8

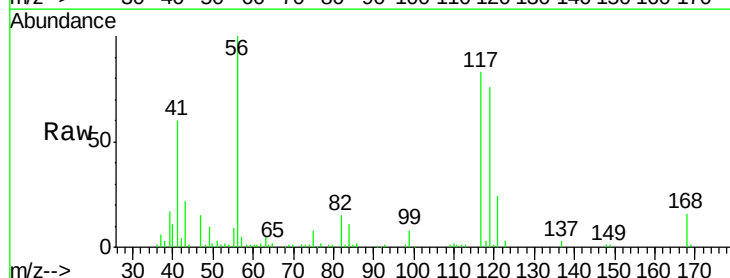


Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 70.00 (69.70 to 70.70): VDC

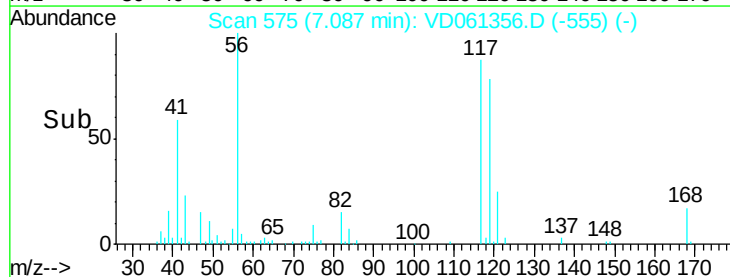
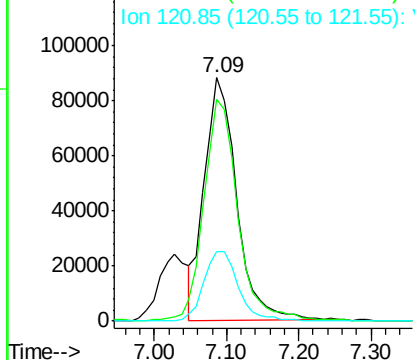


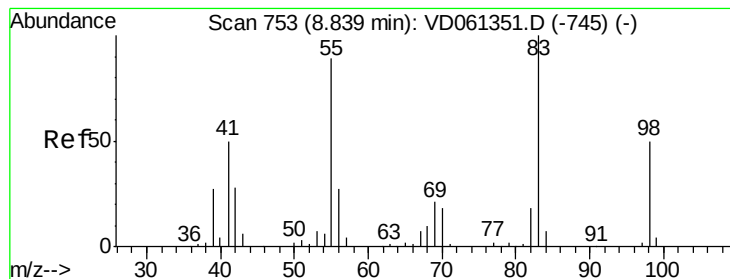
#38
Carbon Tetrachloride
Concen: 20.826 ug/l
RT: 7.09 min Scan# 575
Delta R.T. 0.00 min
Lab File: VD061356.D
Acq: 27 Mar 2019 16:33

Tgt Ion: 117 Resp: 272457
Ion Ratio Lower Upper
117 100
119 91.1 80.1 120.1
121 28.6 25.6 38.4



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

Methylvlcyclohexane

Concen: 20.392 ug/l

RT: 8.84 min Scan# 753

Delta R.T. 0.00 min

Lab File: VD061356.D

Acq: 27 Mar 2019 16:33

Instrument :

MSVOA_D

ClientSampleId :

VD0327SBS01

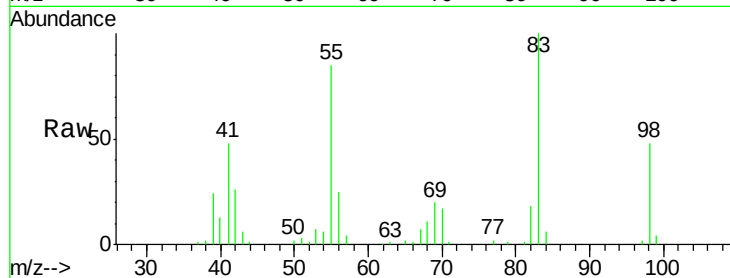
Tot Ion: 83 Resp: 244024

Ion Ratio Lower Upper

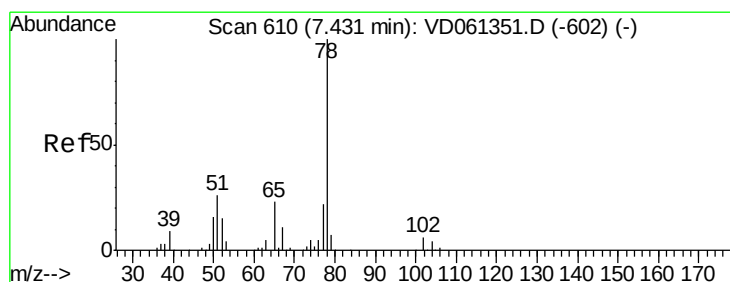
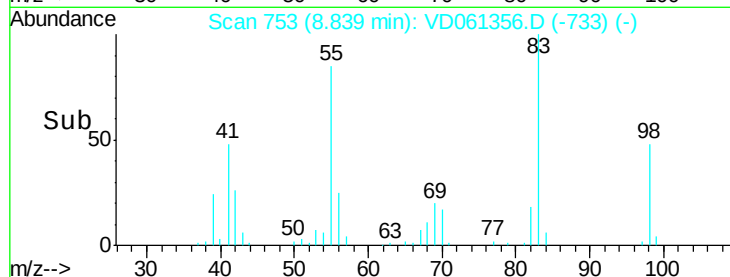
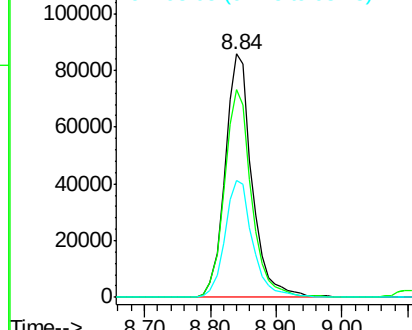
83 100

55 85.3 71.5 107.3

98 47.9 40.3 60.5



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: 20.830 ug/l

RT: 7.43 min Scan# 610

Delta R.T. 0.00 min

Lab File: VD061356.D

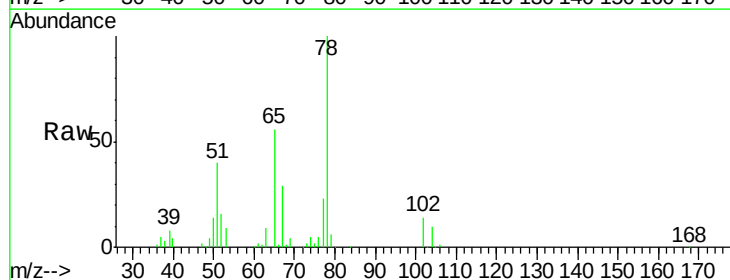
Acq: 27 Mar 2019 16:33

Tgt Ion: 78 Resp: 600686

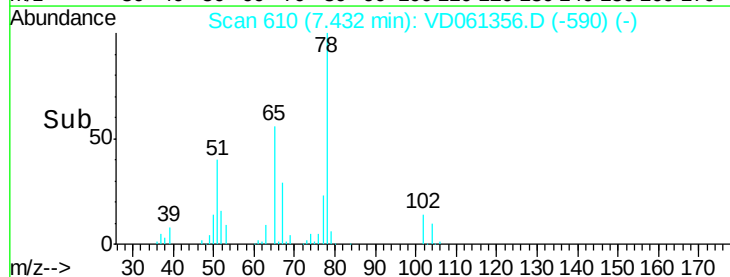
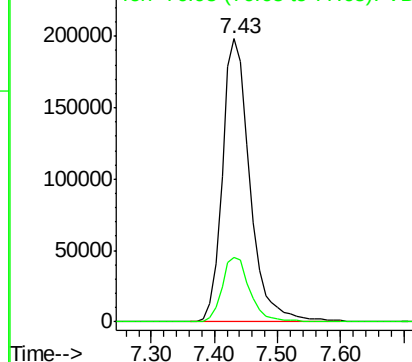
Ion Ratio Lower Upper

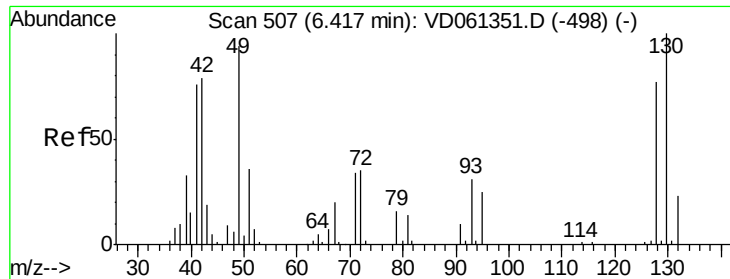
78 100

77 23.0 17.8 26.6



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

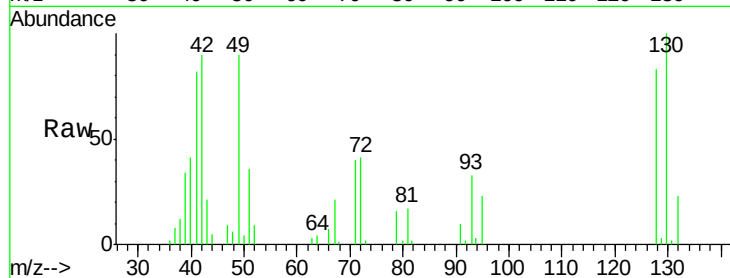




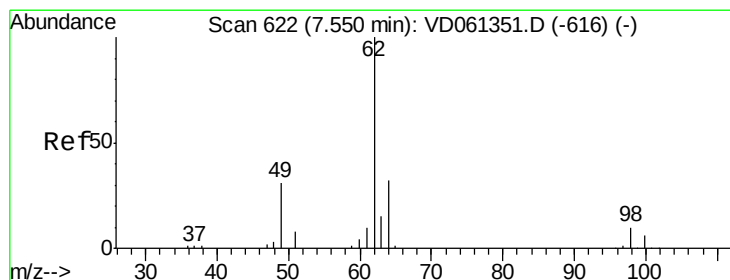
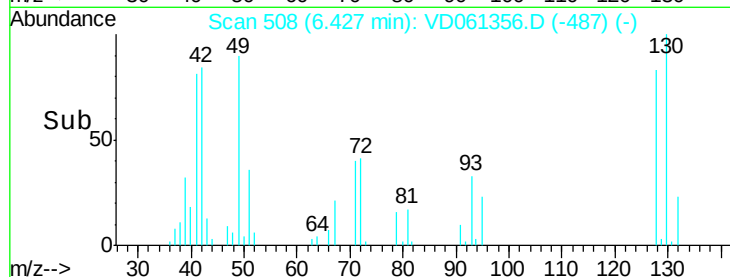
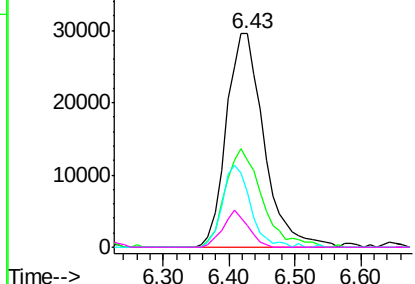
#41
Methacrylonitrile
Concen: 20.624 ug/l
RT: 6.43 min Scan# 508
Delta R.T. 0.01 min
Lab File: VD061356.D
Acq: 27 Mar 2019 16:33

Instrument :
MSVOA_D
ClientSampleId :
VD0327SBS01

Tot Ion:	41	Resp:	118500
Ion	Ratio	Lower	Upper
41	100		
39	40.9	35.0	52.6
67	25.9	21.0	31.6
52	10.5	7.7	11.5

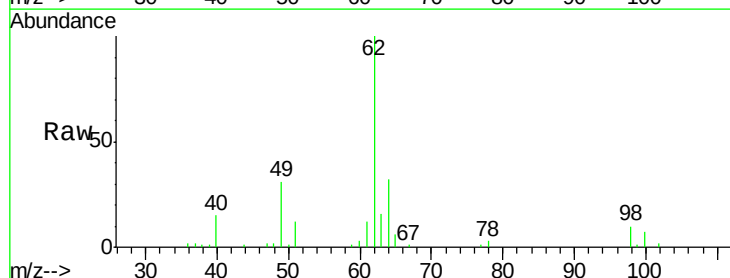


Abundance Ion 40.95 (40.65 to 41.65): VDC
Ion 38.95 (38.65 to 39.65): VDC
Ion 67.00 (66.70 to 67.70): VDC
Ion 52.00 (51.70 to 52.70): VDC

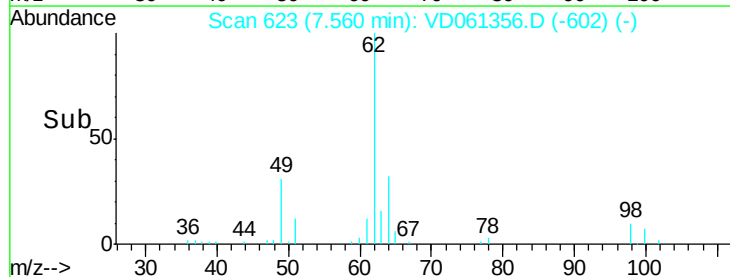
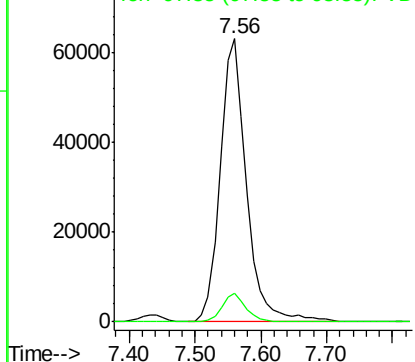


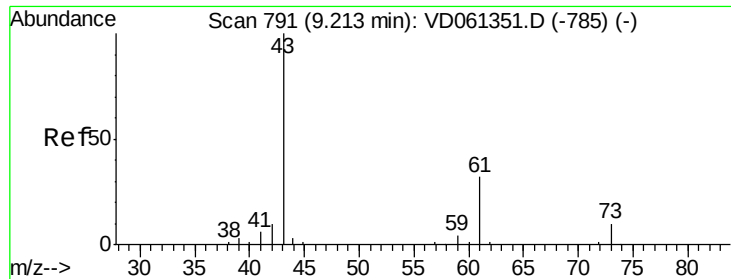
#42
1,2-Dichloroethane
Concen: 20.257 ug/l
RT: 7.56 min Scan# 623
Delta R.T. 0.01 min
Lab File: VD061356.D
Acq: 27 Mar 2019 16:33

Tgt Ion:	62	Resp:	174737
Ion	Ratio	Lower	Upper
62	100		
98	10.0	0.0	19.8



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

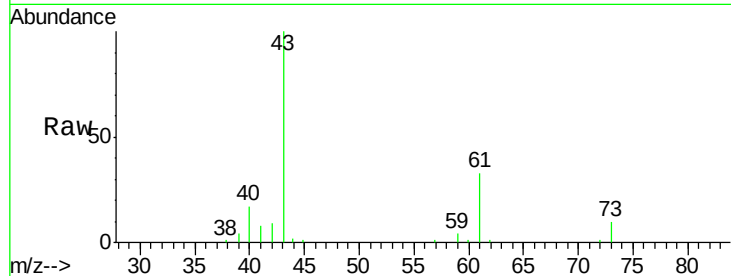




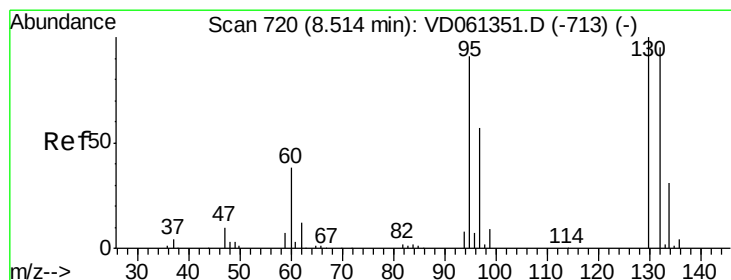
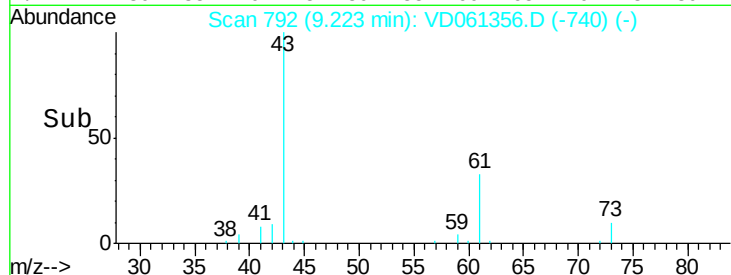
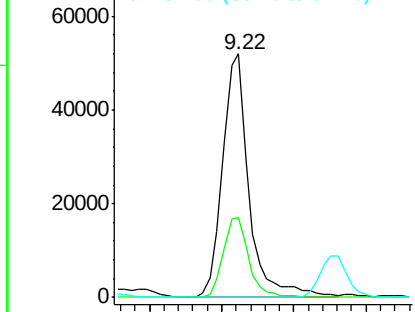
#43
Isopropyl Acetate
Concen: 18.410 ug/l
RT: 9.22 min Scan# 792
Delta R.T. 0.01 min
Lab File: VD061356.D
Acq: 27 Mar 2019 16:33

Instrument :
MSVOA_D
ClientSampleId :
VD0327SBS01

Tot Ion: 43 Resp: 131629
Ion Ratio Lower Upper
43 100
61 32.8 25.8 38.6
87 0.0 0.0 0.0

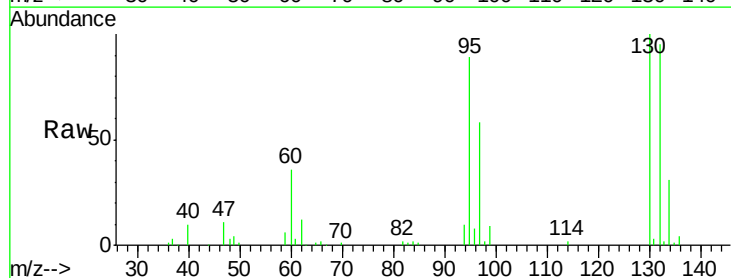


Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 87.00 (86.70 to 87.70): VDC

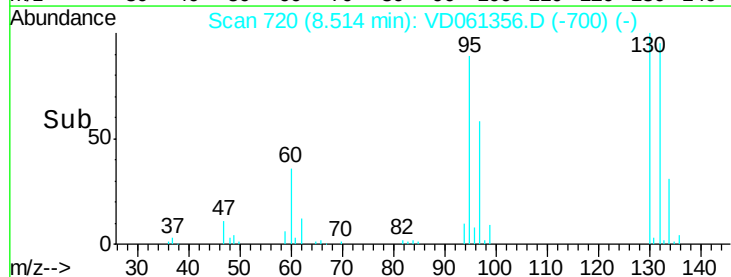
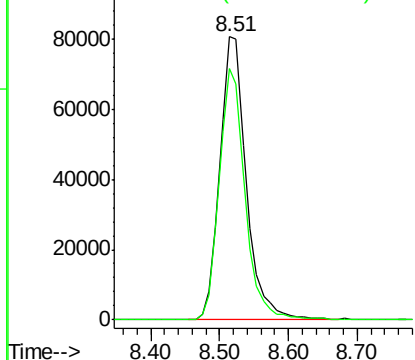


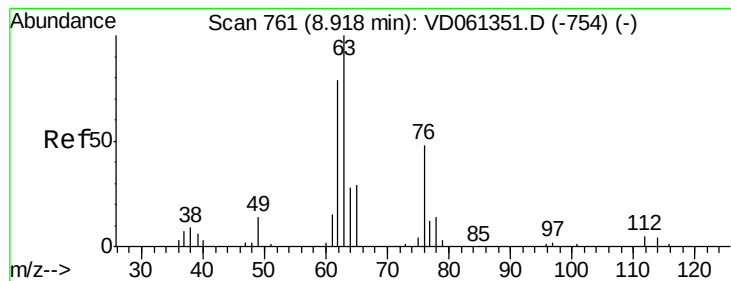
#44
Trichloroethene
Concen: 19.965 ug/l
RT: 8.51 min Scan# 720
Delta R.T. 0.00 min
Lab File: VD061356.D
Acq: 27 Mar 2019 16:33

Tgt Ion:130 Resp: 214256
Ion Ratio Lower Upper
130 100
95 89.0 0.0 181.4



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





#45

1,2-Dichloropropane

Concen: 20.429 ug/l

RT: 8.92 min Scan# 761

Delta R.T. 0.00 min

Lab File: VD061356.D

Acq: 27 Mar 2019 16:33

Instrument :

MSVOA_D

ClientSampleId :

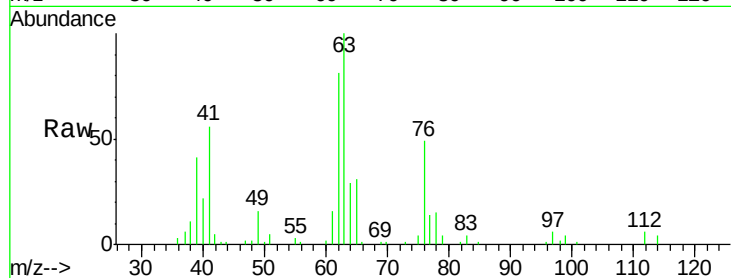
VD0327SBS01

Tot Ion: 63 Resp: 149379

Ion Ratio Lower Upper

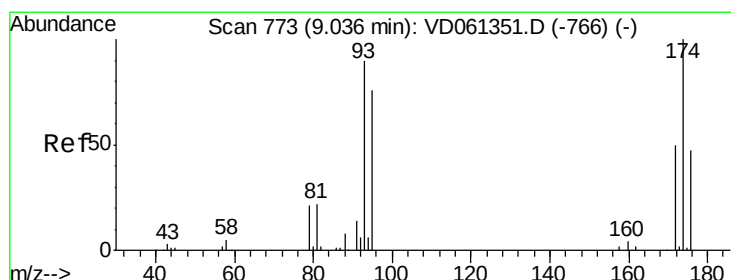
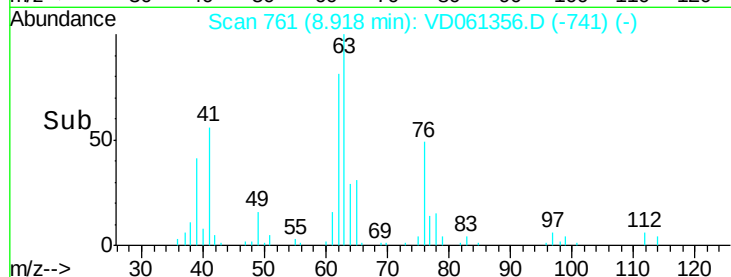
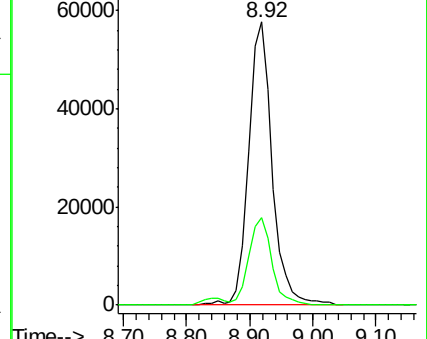
63 100

65 31.0 25.0 37.4



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 64.95 (64.65 to 65.65): VDC



#46

Dibromomethane

Concen: 20.394 ug/l

RT: 9.04 min Scan# 773

Delta R.T. 0.00 min

Lab File: VD061356.D

Acq: 27 Mar 2019 16:33

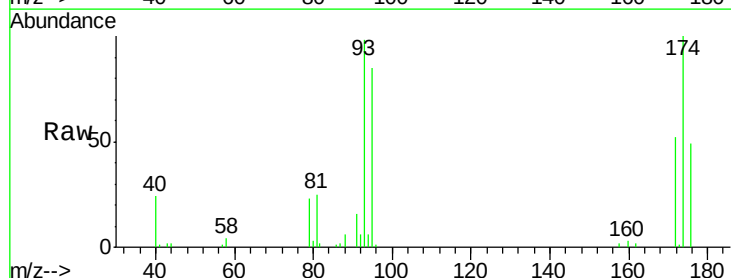
Tgt Ion: 93 Resp: 100374

Ion Ratio Lower Upper

93 100

95 86.7 67.4 101.0

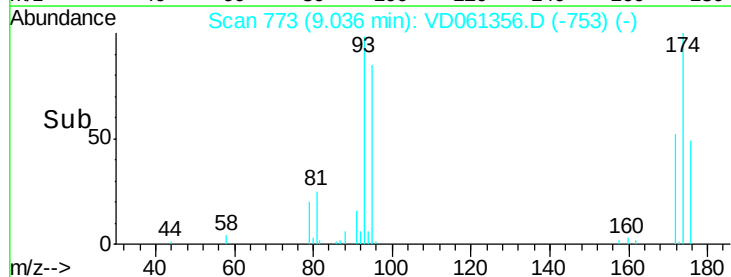
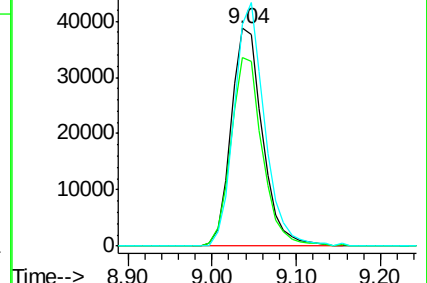
174 102.1 88.9 133.3

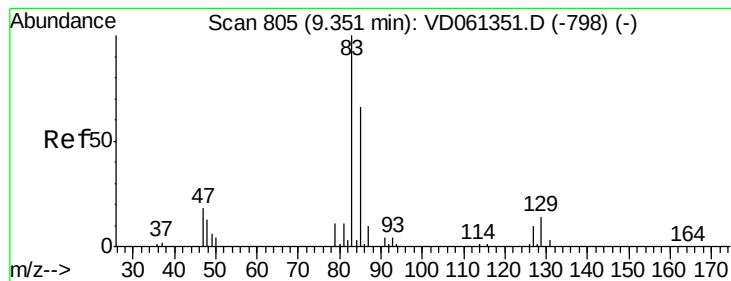


Abundance Ion 92.90 (92.60 to 93.60): VDC

Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): VDC





#47

Bromodichloromethane

Concen: 20.134 ug/l

RT: 9.35 min Scan# 805

Delta R.T. 0.00 min

Lab File: VD061356.D

Acq: 27 Mar 2019 16:33

Instrument :

MSVOA_D

ClientSampleId :

VD0327SBS01

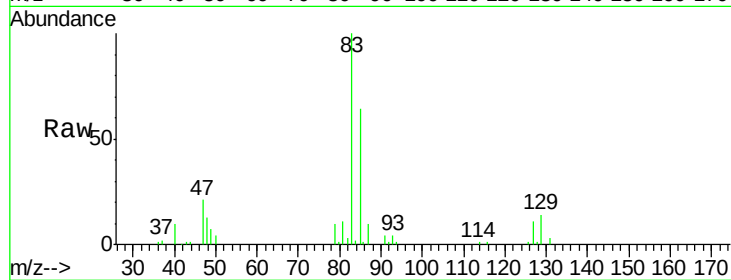
Tot Ion: 83 Resp: 222405

Ion Ratio Lower Upper

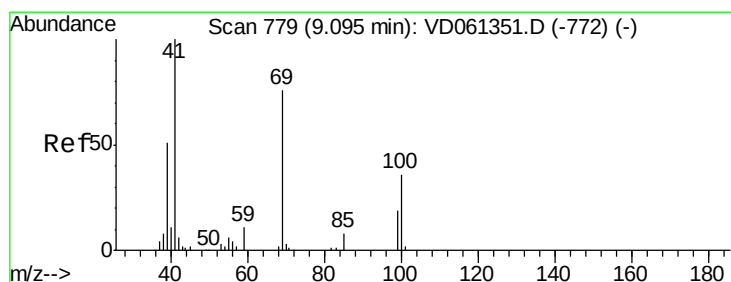
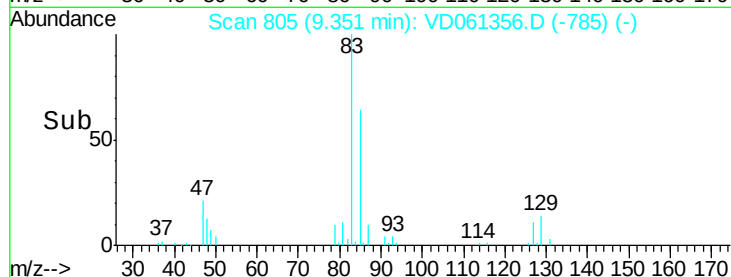
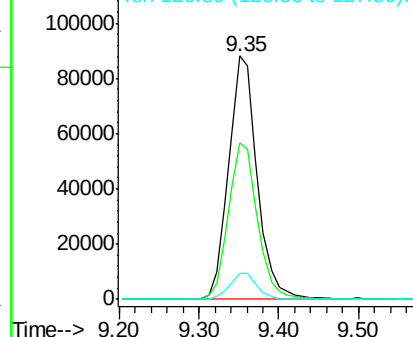
83 100

85 64.1 53.0 79.4

127 10.6 8.4 12.6



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



#48

Methyl methacrylate

Concen: 18.721 ug/l

RT: 9.10 min Scan# 779

Delta R.T. 0.00 min

Lab File: VD061356.D

Acq: 27 Mar 2019 16:33

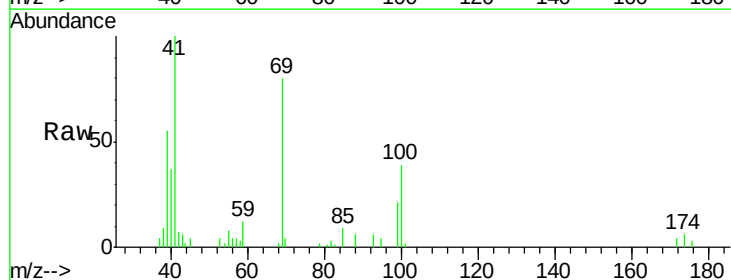
Tgt Ion: 41 Resp: 73871

Ion Ratio Lower Upper

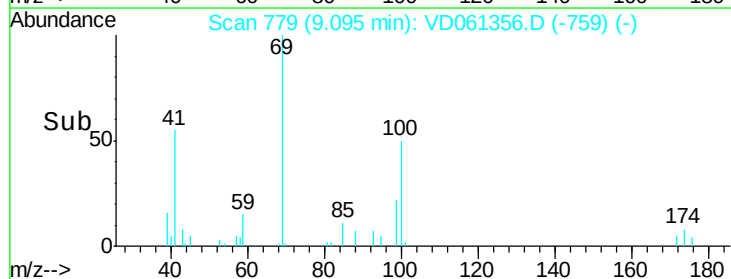
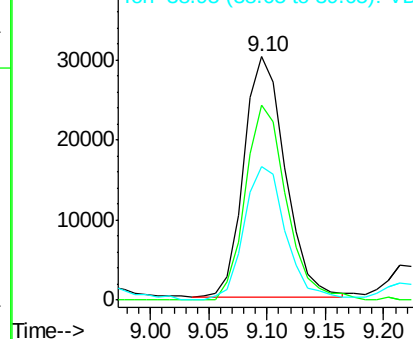
41 100

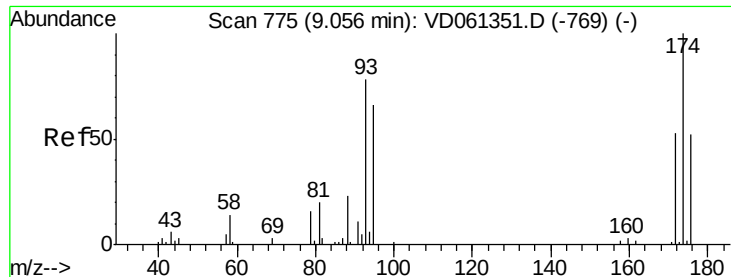
69 80.2 60.2 90.4

39 54.8 41.4 62.2



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

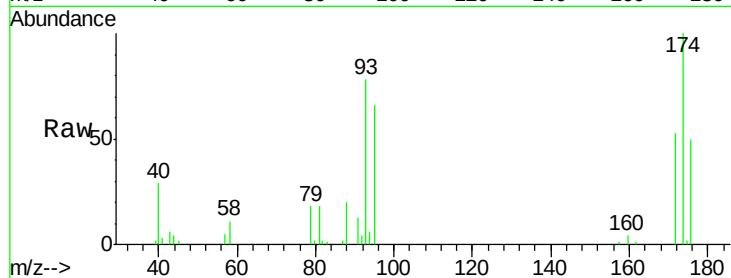




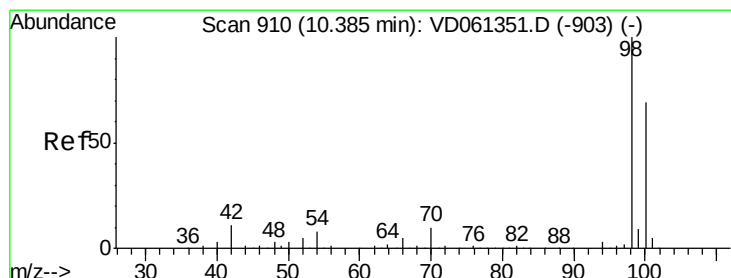
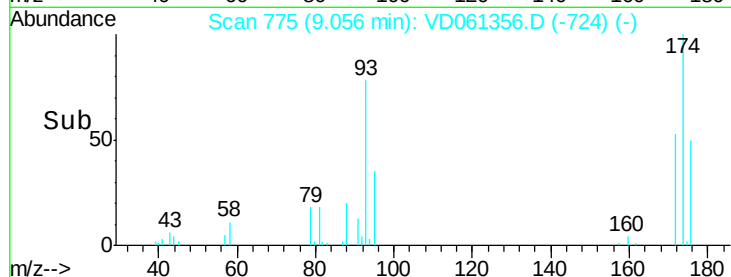
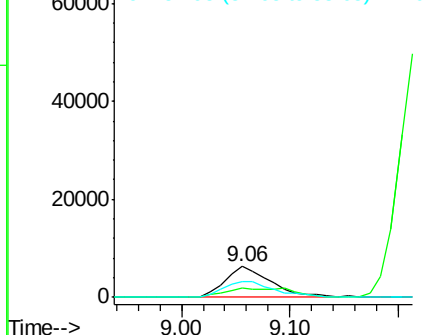
#49
1,4-Dioxane
Concen: 423.797 ug/l
RT: 9.06 min Scan# 775
Delta R.T. 0.00 min
Lab File: VD061356.D
Acq: 27 Mar 2019 16:33

Instrument :
MSVOA_D
ClientSampleId :
VD0327SBS01

Tot Ion: 88 Resp: 18445
Ion Ratio Lower Upper
88 100
43 29.4 23.3 34.9
58 52.7 50.8 76.2

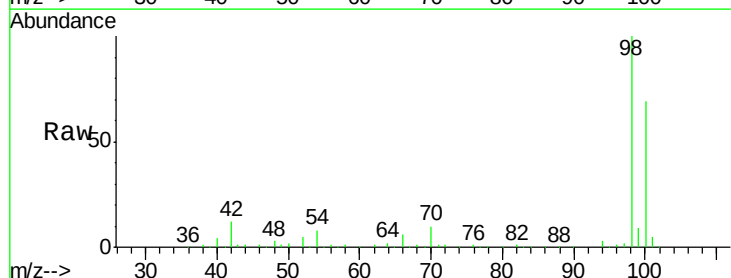


Abundance Ion 88.00 (87.70 to 88.70): VDC
Ion 43.05 (42.75 to 43.75): VDC
Ion 57.95 (57.65 to 58.65): VDC

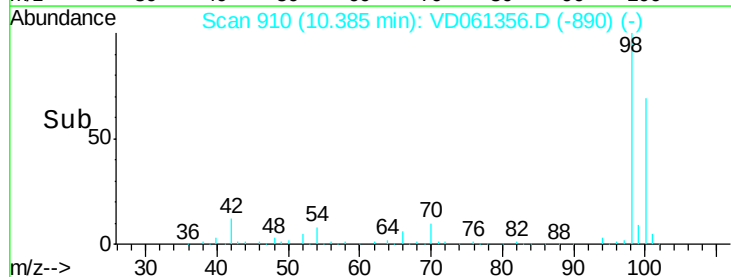
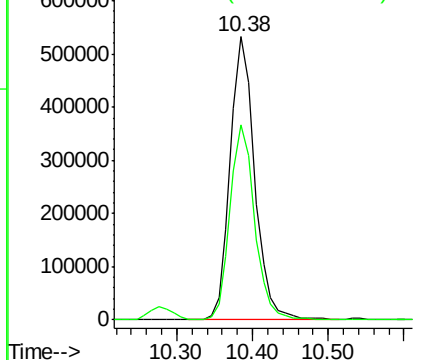


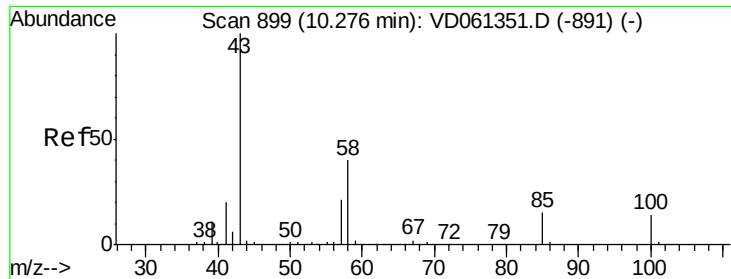
#50
Toluene-d8
Concen: 423.797 ug/l
RT: 10.38 min Scan# 910
Delta R.T. 0.00 min
Lab File: VD061356.D
Acq: 27 Mar 2019 16:33

Tgt Ion: 98 Resp: 1189757
Ion Ratio Lower Upper
98 100
100 69.1 56.2 84.2



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: 100.271 ug/l

RT: 10.28 min Scan# 899

Delta R.T. 0.00 min

Lab File: VD061356.D

Acq: 27 Mar 2019 16:33

Instrument :

MSVOA_D

ClientSampleId :

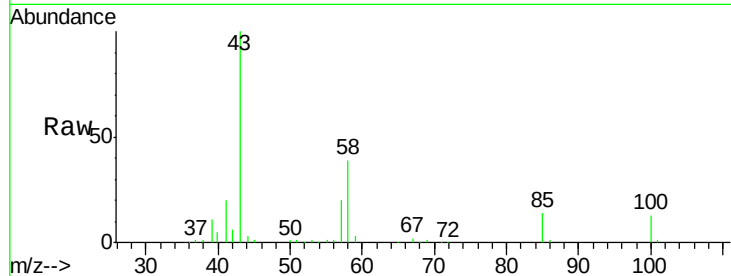
VD0327SBS01

Tot Ion: 43 Resp: 436170

Ion Ratio Lower Upper

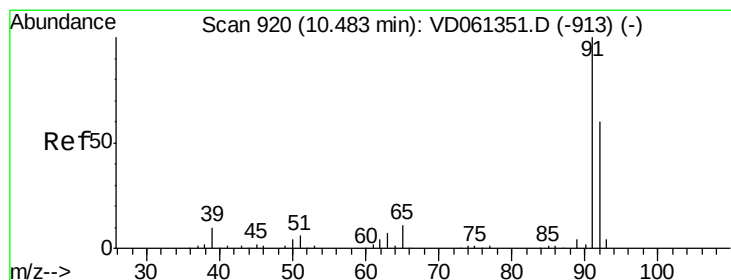
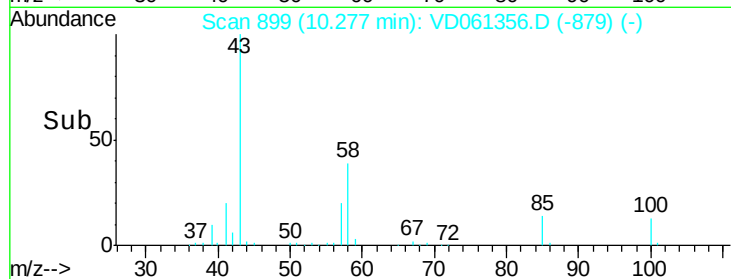
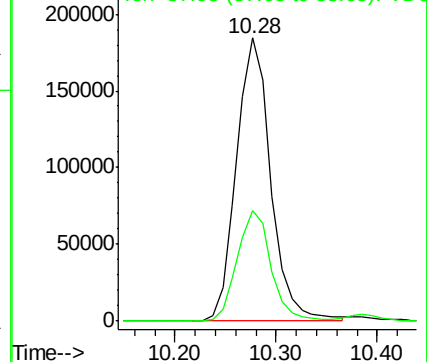
43 100

58 39.0 31.8 47.8



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#52

Toluene

Concen: 21.085 ug/l

RT: 10.48 min Scan# 920

Delta R.T. 0.00 min

Lab File: VD061356.D

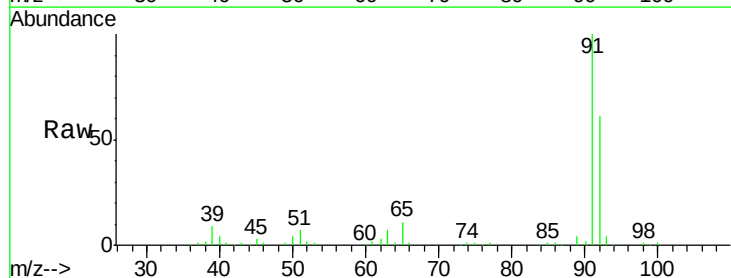
Acq: 27 Mar 2019 16:33

Tgt Ion: 92 Resp: 370944

Ion Ratio Lower Upper

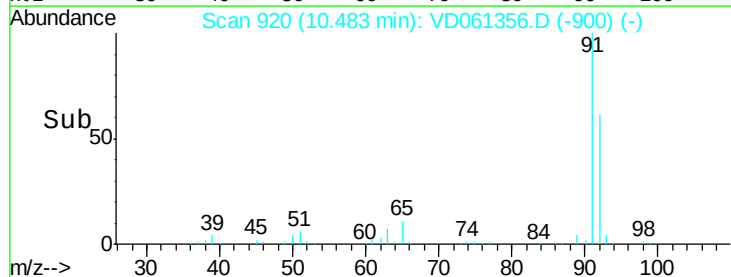
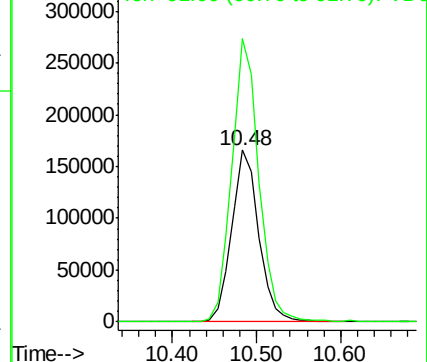
92 100

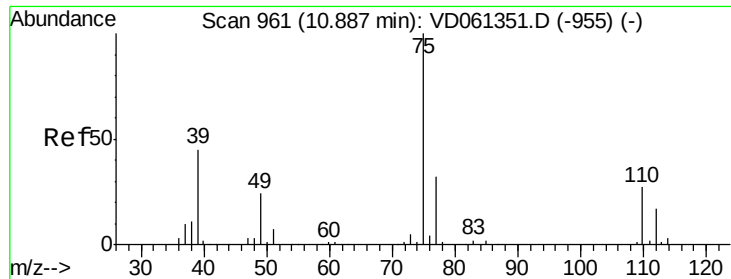
91 164.9 133.3 199.9



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC

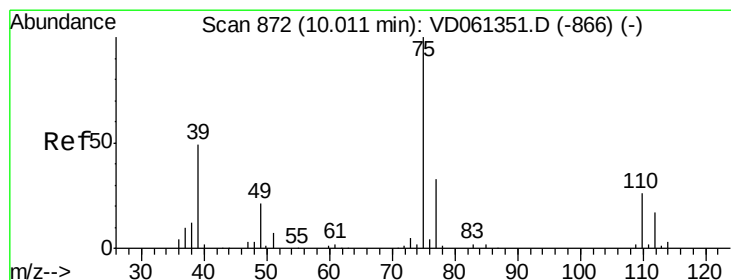
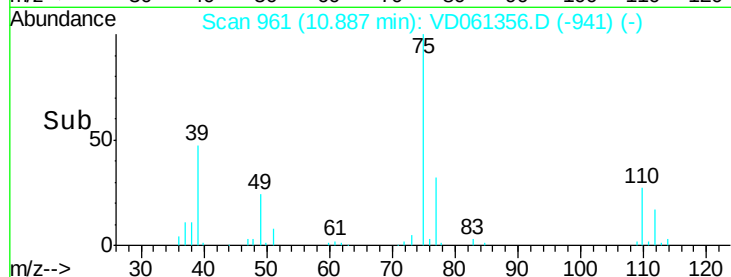
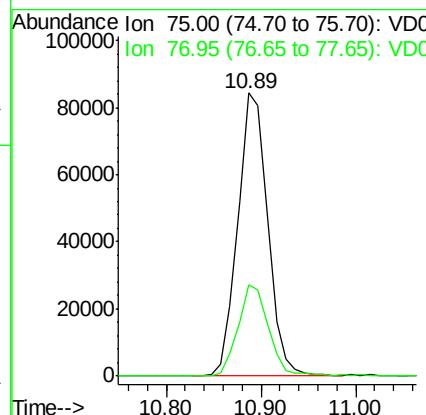
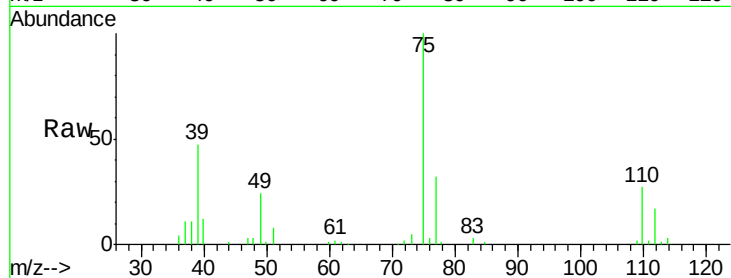




#53
 t-1,3-Dichloropropene
 Concen: 18.478 ug/l
 RT: 10.89 min Scan# 961
 Delta R.T. 0.00 min
 Lab File: VD061356.D
 Acq: 27 Mar 2019 16:33

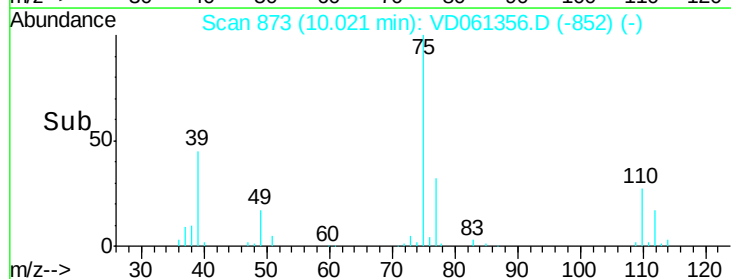
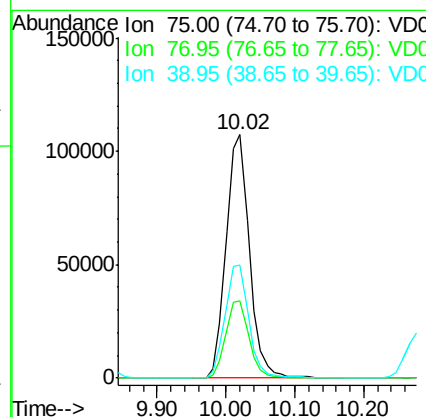
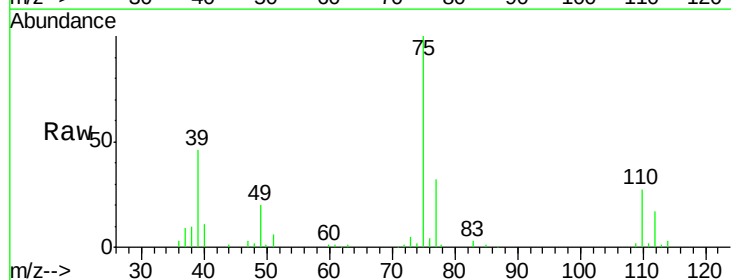
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0327SBS01

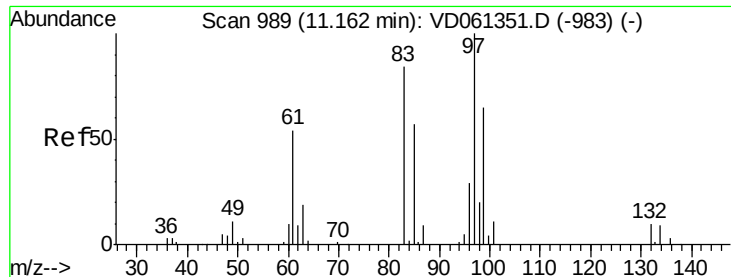
Tot Ion: 75 Resp: 185451
 Ion Ratio Lower Upper
 75 100
 77 32.1 25.4 38.2



#54
 cis-1,3-Dichloropropene
 Concen: 20.587 ug/l
 RT: 10.02 min Scan# 873
 Delta R.T. 0.01 min
 Lab File: VD061356.D
 Acq: 27 Mar 2019 16:33

Tgt Ion: 75 Resp: 251584
 Ion Ratio Lower Upper
 75 100
 77 31.7 26.2 39.4
 39 46.2 39.4 59.0

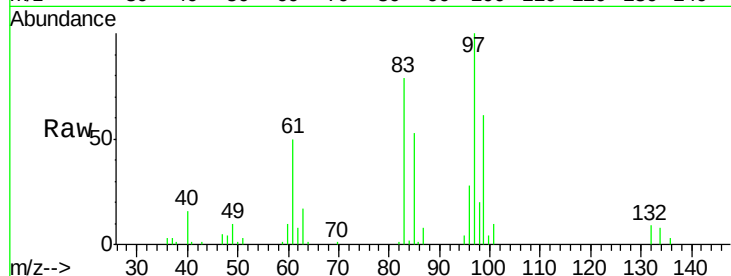




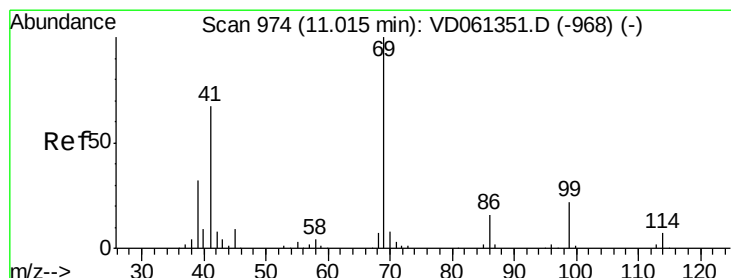
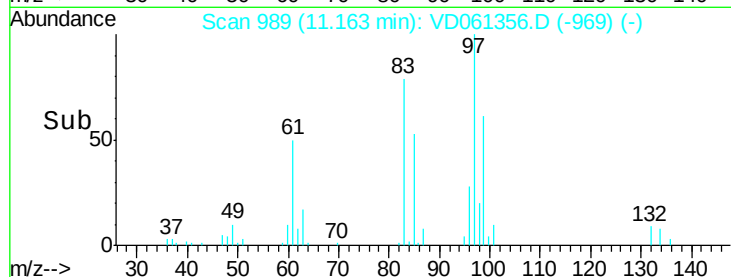
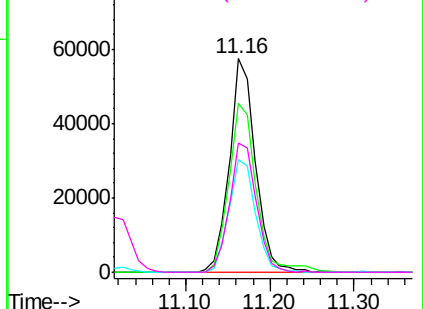
#55
 1,1,2-Trichloroethane
 Concen: 20.154 ug/l
 RT: 11.16 min Scan# 989
 Delta R.T. 0.00 min
 Lab File: VD061356.D
 Acq: 27 Mar 2019 16:33

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0327SBS01

Tot Ion:	97	Resp:	123997
Ion	Ratio	Lower	Upper
97	100		
83	78.9	67.0	100.6
85	52.7	45.4	68.2
99	60.8	51.9	77.9

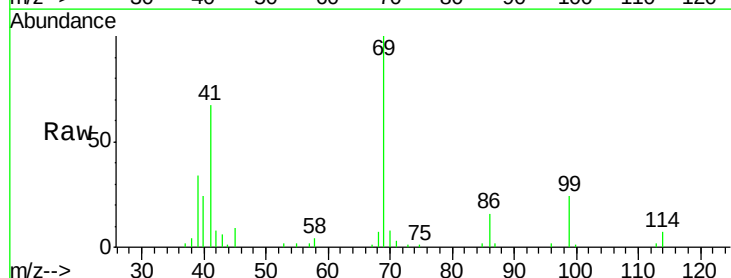


Abundance Ion 96.85 (96.55 to 97.55): VDC
 Ion 82.95 (82.65 to 83.65): VDC
 Ion 84.95 (84.65 to 85.65): VDC
 Ion 98.85 (98.55 to 99.55): VDC

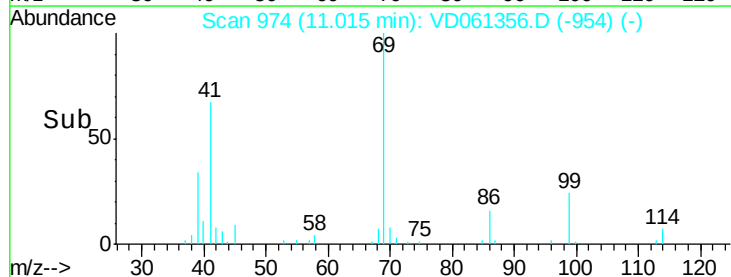
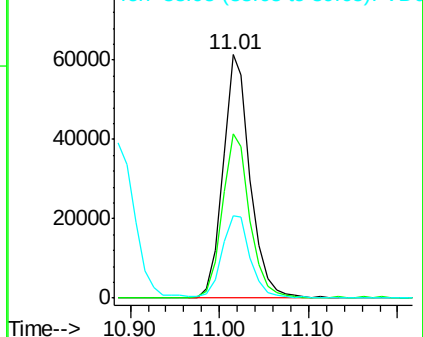


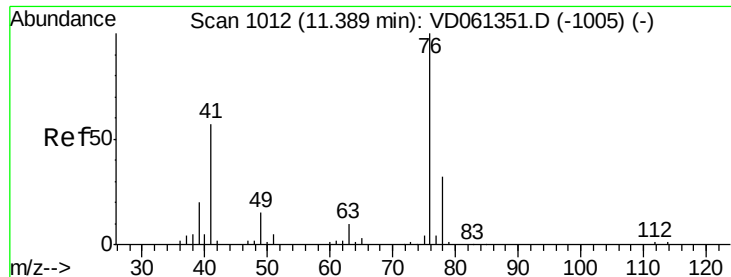
#56
 Ethyl methacrylate
 Concen: 19.807 ug/l
 RT: 11.01 min Scan# 974
 Delta R.T. 0.00 min
 Lab File: VD061356.D
 Acq: 27 Mar 2019 16:33

Tgt Ion:	69	Resp:	130918
Ion	Ratio	Lower	Upper
69	100		
41	67.3	53.8	80.6
39	33.9	26.4	39.6



Abundance Ion 69.00 (68.70 to 69.70): VDC
 Ion 41.05 (40.75 to 41.75): VDC
 Ion 38.95 (38.65 to 39.65): VDC





#57

1,3-Dichloropropane

Concen: 21.098 ug/l

RT: 11.38 min Scan# 1011

Delta R.T. -0.01 min

Lab File: VD061356.D

Acq: 27 Mar 2019 16:33

Instrument :

MSVOA_D

ClientSampleId :

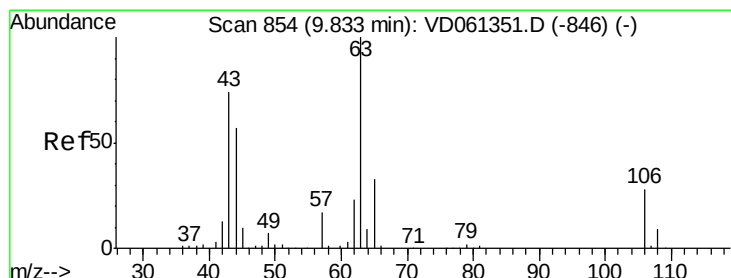
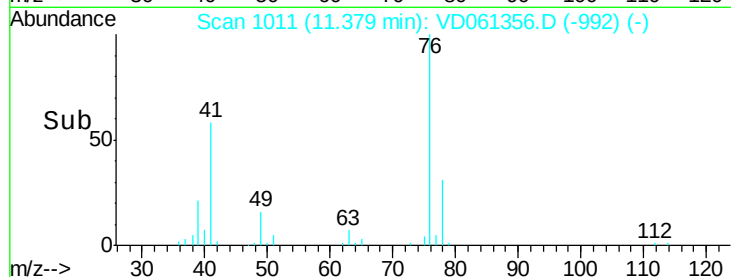
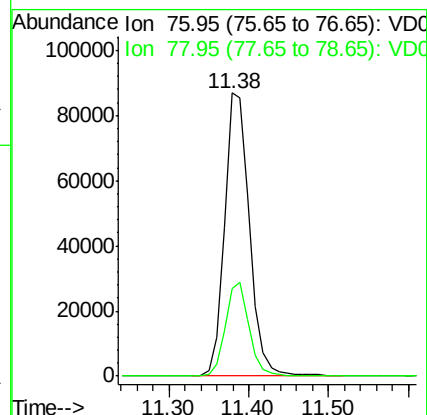
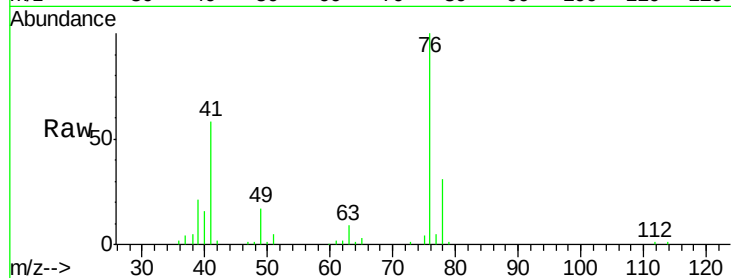
VD0327SBS01

Tot Ion: 76 Resp: 190793

Ion Ratio Lower Upper

76 100

78 31.0 25.4 38.0



#58

2-Chloroethyl Vinyl ether

Concen: 95.806 ug/l

RT: 9.83 min Scan# 854

Delta R.T. 0.00 min

Lab File: VD061356.D

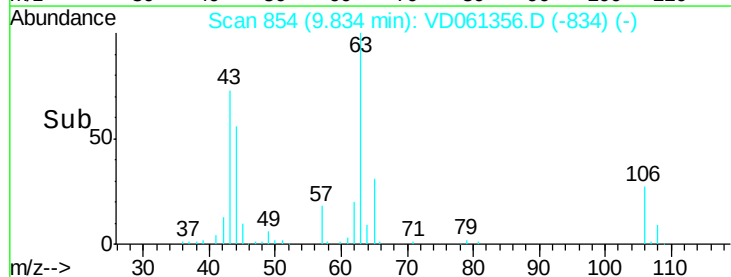
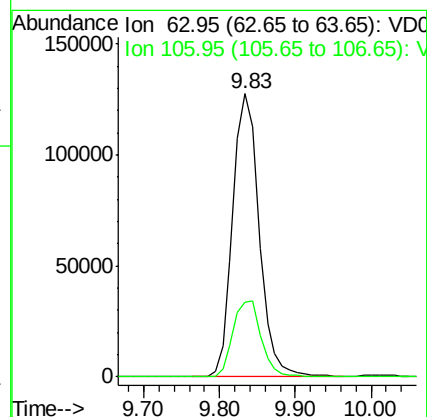
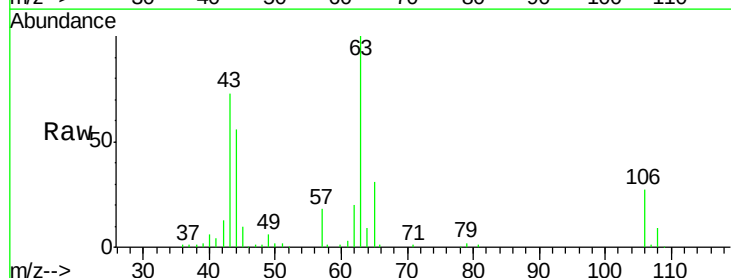
Acq: 27 Mar 2019 16:33

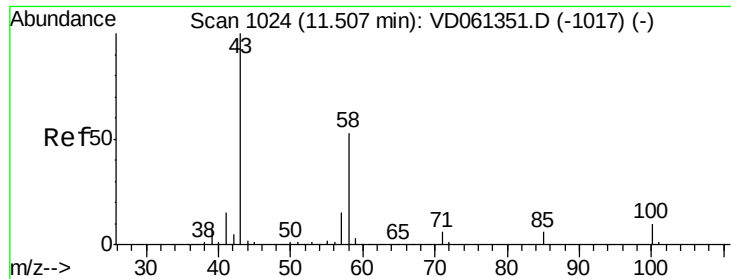
Tgt Ion: 63 Resp: 308381

Ion Ratio Lower Upper

63 100

106 26.5 22.4 33.6

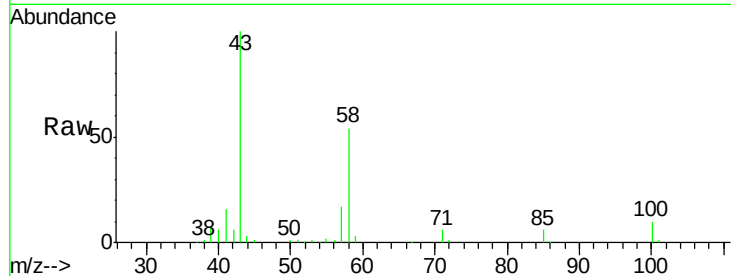




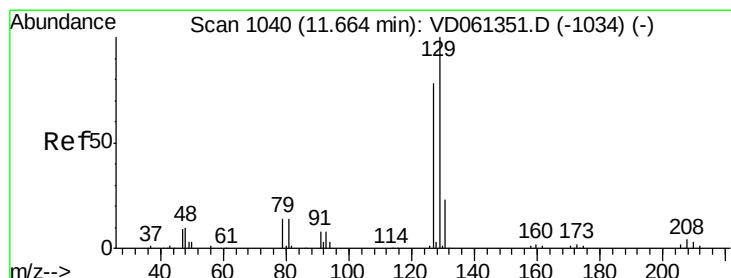
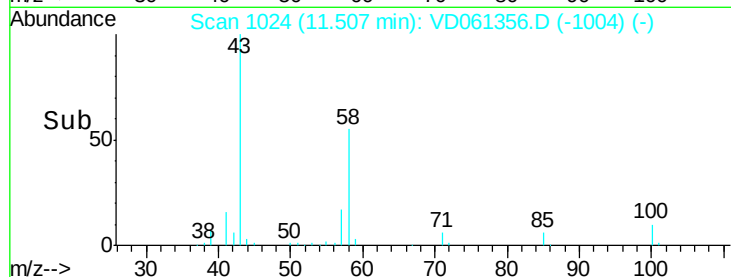
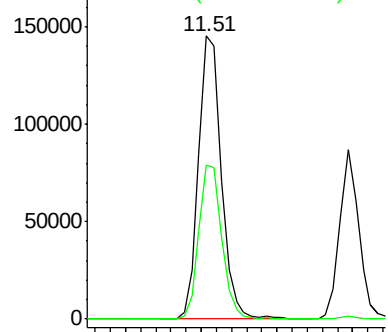
#59
2-Hexanone
Concen: 96.389 ug/l
RT: 11.51 min Scan# 1024
Delta R.T. 0.00 min
Lab File: VD061356.D
Acq: 27 Mar 2019 16:33

Instrument :
MSVOA_D
ClientSampleId :
VD0327SBS01

Tot Ion: 43 Resp: 303783
Ion Ratio Lower Upper
43 100
58 54.5 26.3 78.9

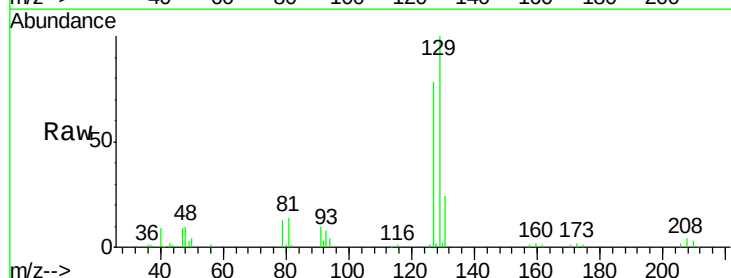


Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 57.95 (57.65 to 58.65): VDC

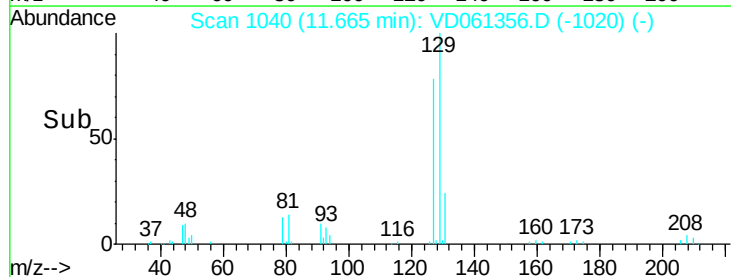
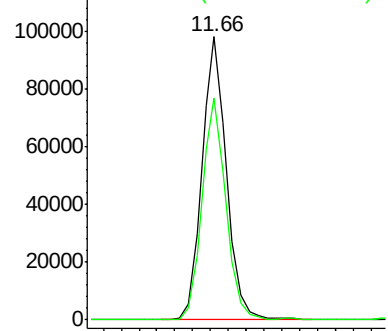


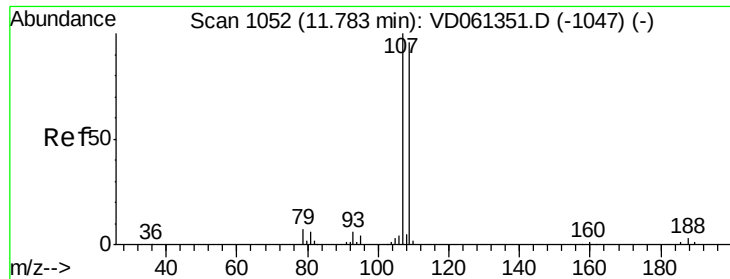
#60
Dibromochloromethane
Concen: 19.862 ug/l
RT: 11.66 min Scan# 1040
Delta R.T. 0.00 min
Lab File: VD061356.D
Acq: 27 Mar 2019 16:33

Tgt Ion: 129 Resp: 188386
Ion Ratio Lower Upper
129 100
127 78.4 39.0 116.9



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

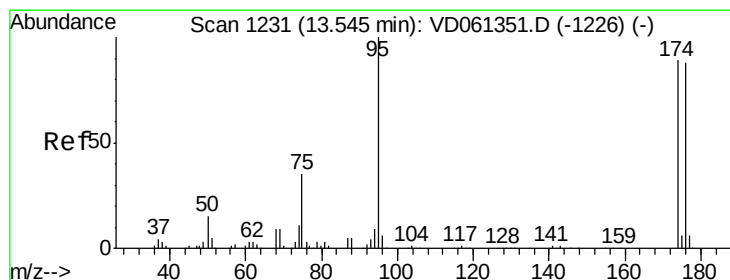
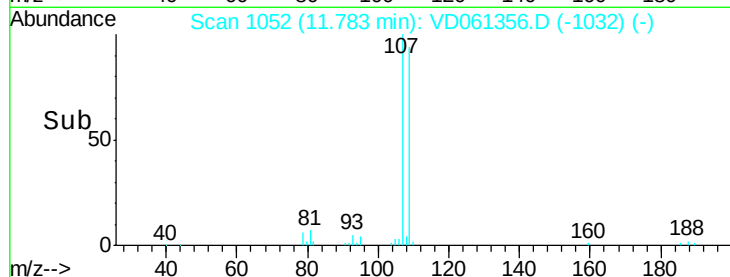
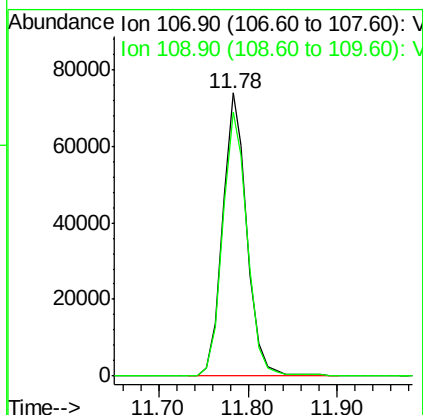
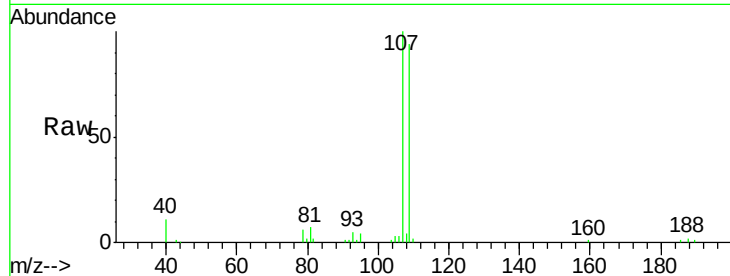




#61
 1,2-Dibromoethane
 Concen: 19.737 ug/l
 RT: 11.78 min Scan# 1052
 Delta R.T. 0.00 min
 Lab File: VD061356.D
 Acq: 27 Mar 2019 16:33

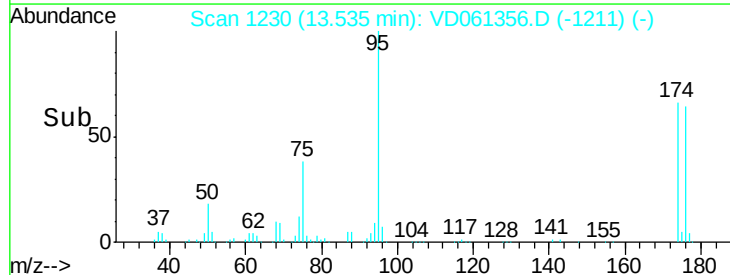
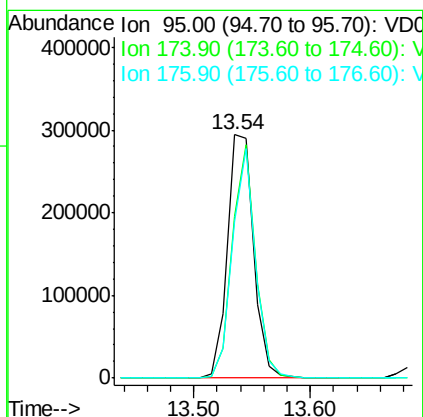
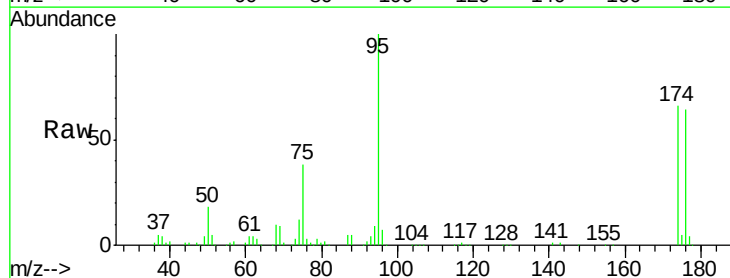
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0327SBS01

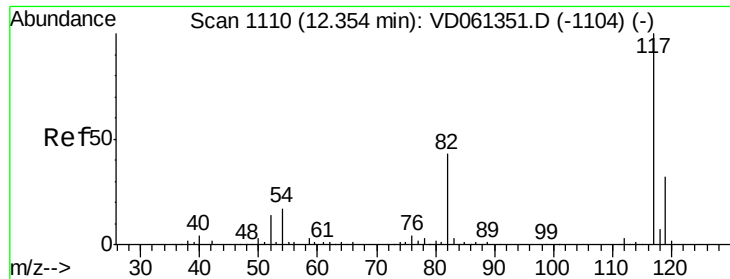
Tot Ion: 107 Resp: 140612
 Ion Ratio Lower Upper
 107 100
 109 93.5 76.6 114.8



#62
 4-Bromofluorobenzene
 Concen: 19.737 ug/l
 RT: 13.54 min Scan# 1230
 Delta R.T. -0.01 min
 Lab File: VD061356.D
 Acq: 27 Mar 2019 16:33

Tgt Ion: 95 Resp: 459262
 Ion Ratio Lower Upper
 95 100
 174 66.3 0.0 178.0
 176 64.1 0.0 175.0

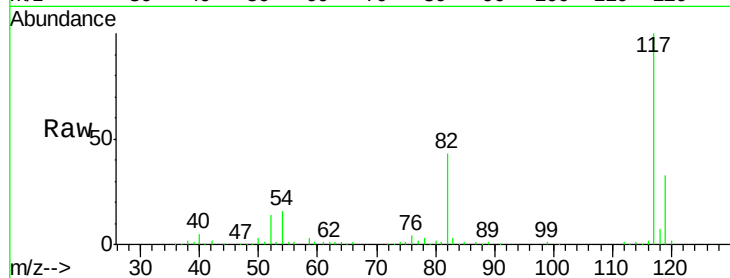




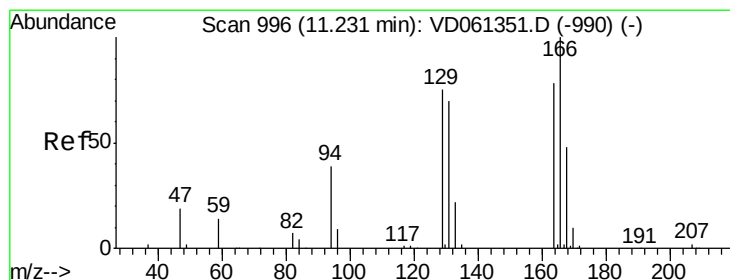
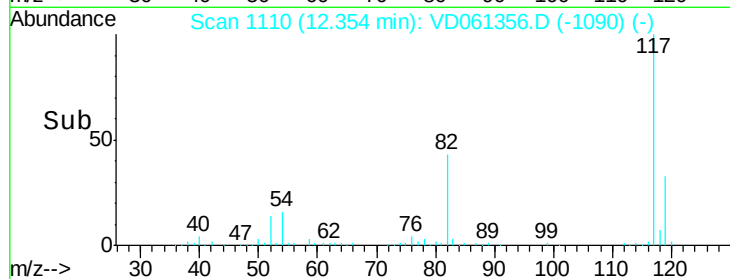
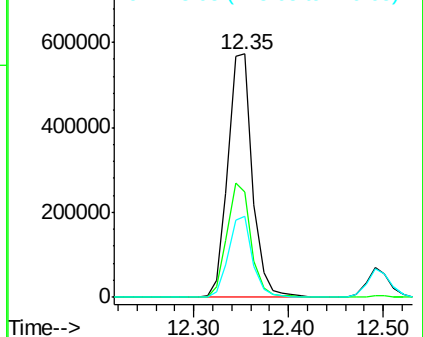
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.35 min Scan# 1110
Delta R.T. 0.00 min
Lab File: VD061356.D
Acq: 27 Mar 2019 16:33

Instrument :
MSVOA_D
ClientSampleId :
VD0327SBS01

Tot Ion:117 Resp: 1029450
Ion Ratio Lower Upper
117 100
82 43.5 34.4 51.6
119 33.4 25.8 38.6

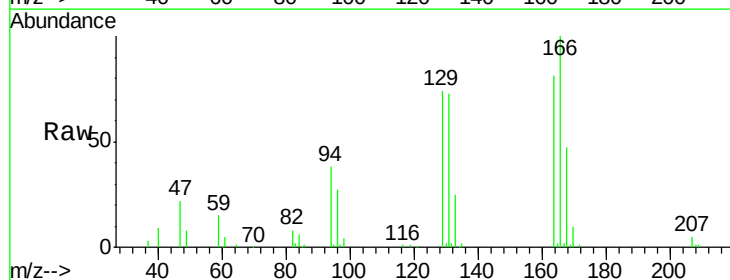


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

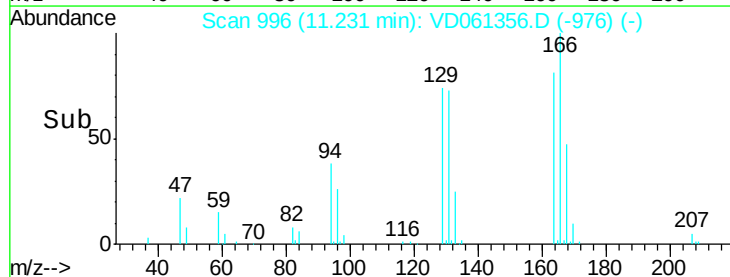
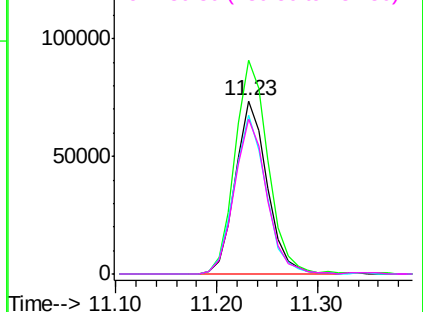


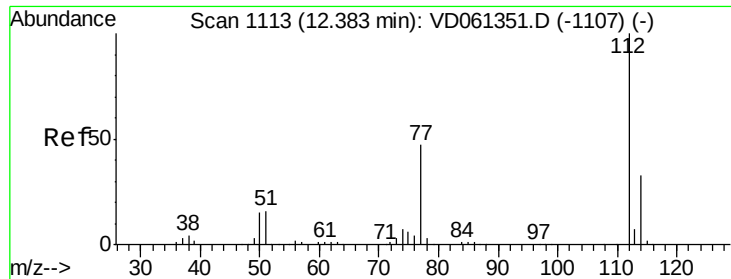
#64
Tetrachloroethene
Concen: 19.972 ug/l
RT: 11.23 min Scan# 996
Delta R.T. 0.00 min
Lab File: VD061356.D
Acq: 27 Mar 2019 16:33

Tgt Ion:164 Resp: 161359
Ion Ratio Lower Upper
164 100
166 123.4 102.4 153.6
129 91.7 76.8 115.2
131 89.6 71.8 107.6



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

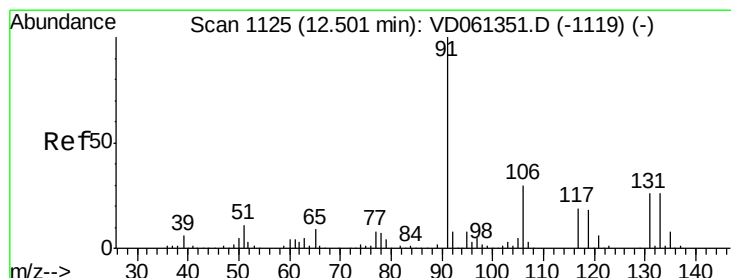
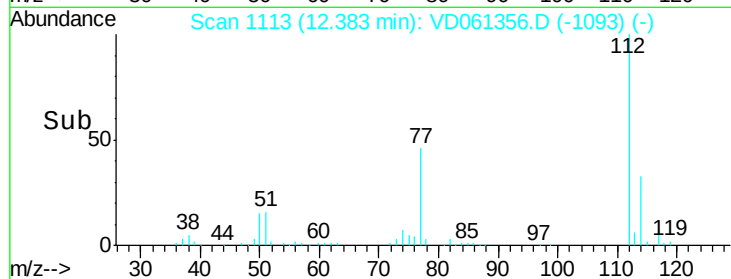
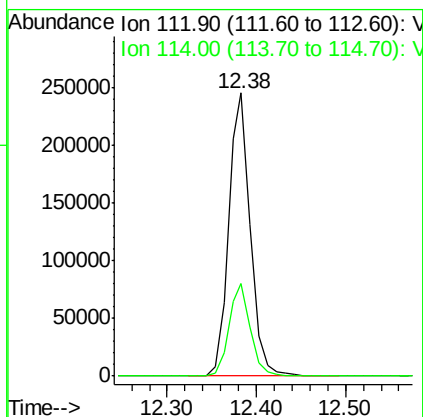
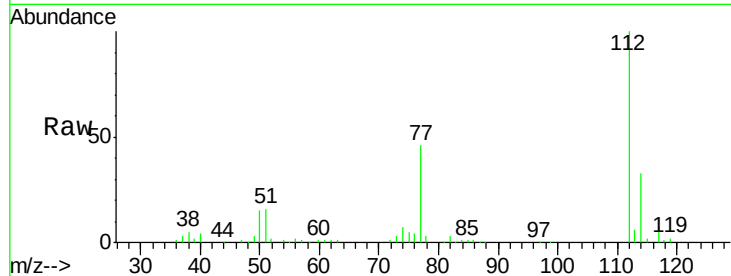




#65
Chlorobenzene
Concen: 19.895 ug/l
RT: 12.38 min Scan# 1113
Delta R.T. 0.00 min
Lab File: VD061356.D
Acq: 27 Mar 2019 16:33

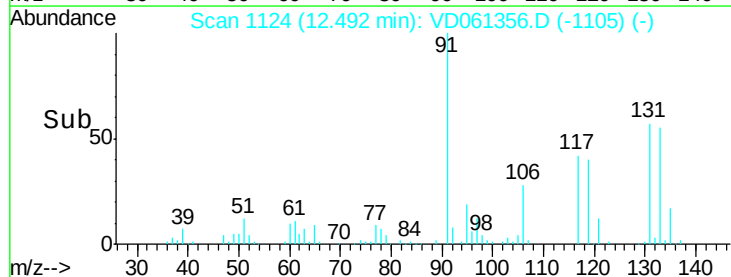
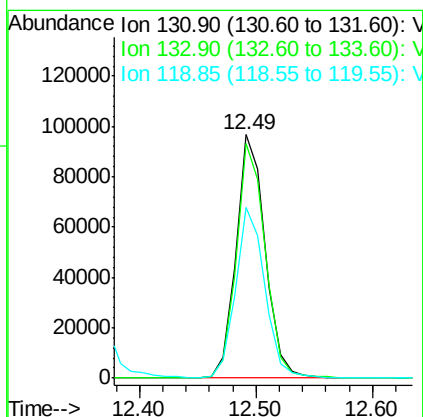
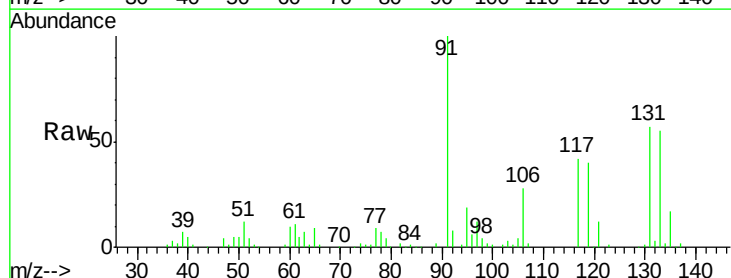
Instrument :
MSVOA_D
ClientSampleId :
VD0327SBS01

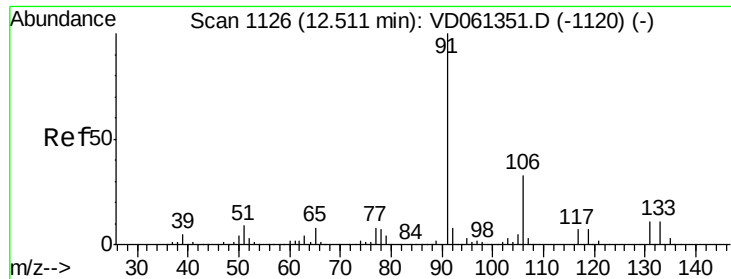
Tot Ion:112 Resp: 418568
Ion Ratio Lower Upper
112 100
114 32.9 26.6 39.8



#66
1,1,1,2-Tetrachloroethane
Concen: 20.451 ug/l
RT: 12.49 min Scan# 1124
Delta R.T. -0.01 min
Lab File: VD061356.D
Acq: 27 Mar 2019 16:33

Tgt Ion:131 Resp: 166595
Ion Ratio Lower Upper
131 100
133 96.5 49.4 148.2
119 70.2 34.1 102.2

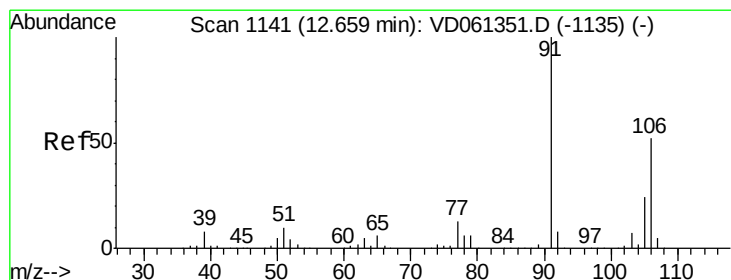
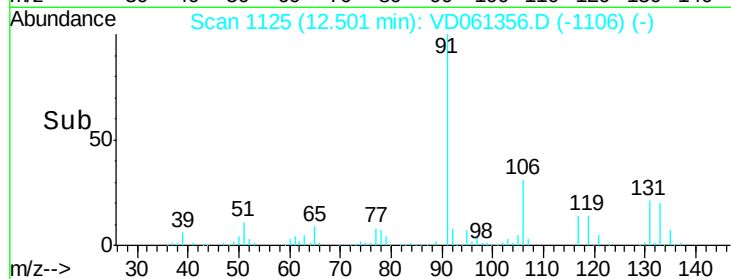
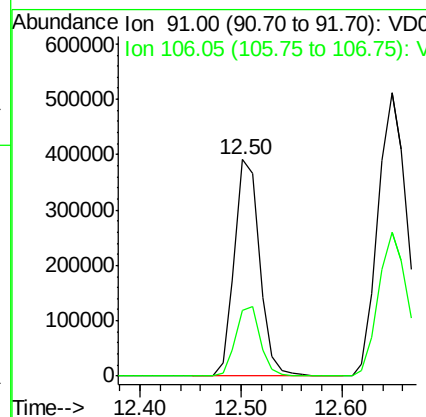
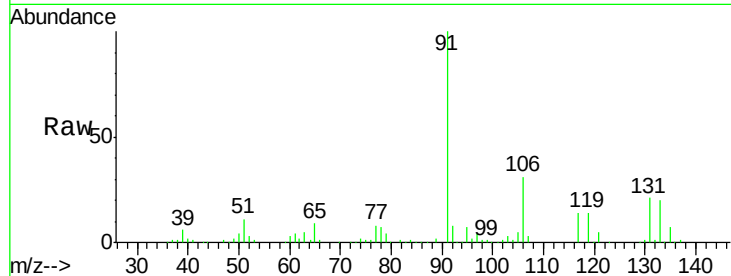




#67
Ethyl Benzene
Concen: 21.179 ug/l
RT: 12.50 min Scan# 1125
Delta R.T. -0.01 min
Lab File: VD061356.D
Acq: 27 Mar 2019 16:33

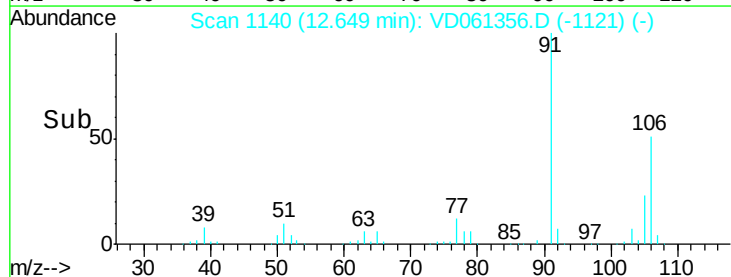
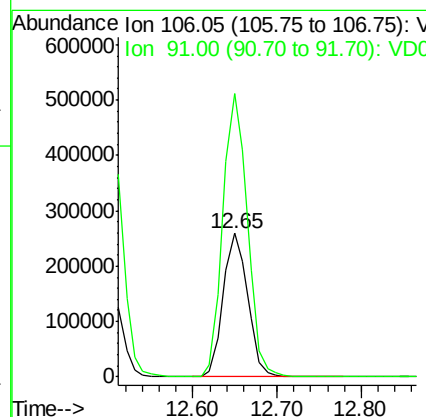
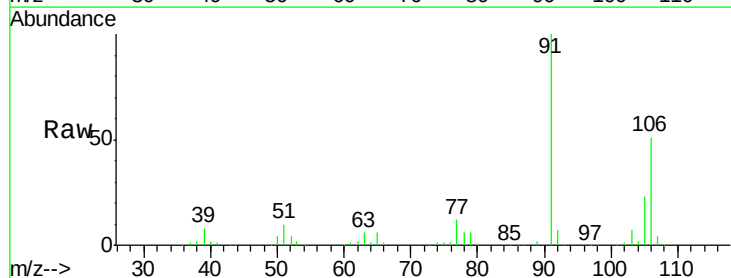
Instrument :
MSVOA_D
ClientSampleId :
VD0327SBS01

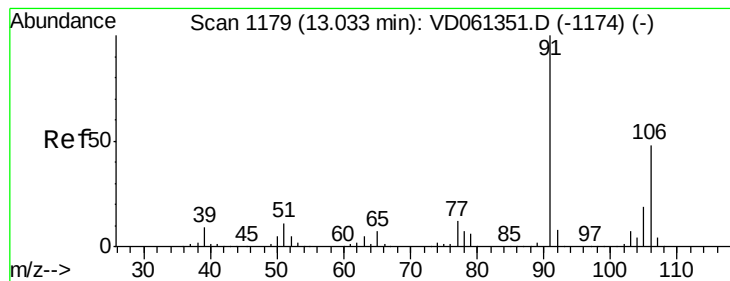
Tot Ion: 91 Resp: 680107
Ion Ratio Lower Upper
91 100
106 30.7 26.1 39.1



#68
m/p-Xylenes
Concen: 43.050 ug/l
RT: 12.65 min Scan# 1140
Delta R.T. -0.01 min
Lab File: VD061356.D
Acq: 27 Mar 2019 16:33

Tgt Ion: 106 Resp: 523675
Ion Ratio Lower Upper
106 100
91 197.2 153.1 229.7





#69

o-Xylene

Concen: 21.709 ug/l

RT: 13.03 min Scan# 1179

Delta R.T. 0.00 min

Lab File: VD061356.D

Acq: 27 Mar 2019 16:33

Instrument :

MSVOA_D

ClientSampleId :

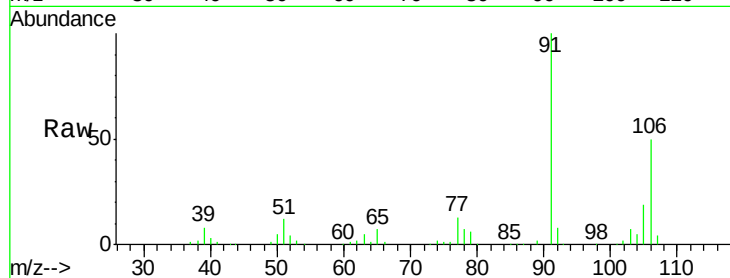
VD0327SBS01

Tot Ion:106 Resp: 256268

Ion Ratio Lower Upper

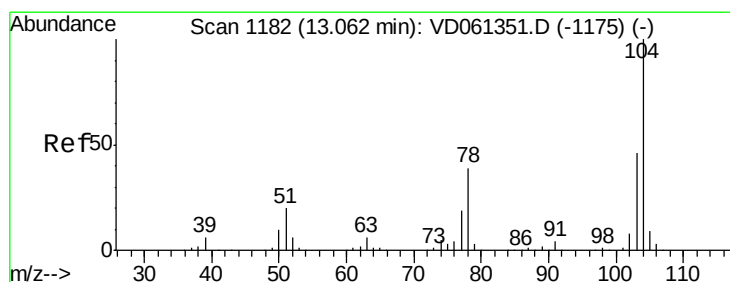
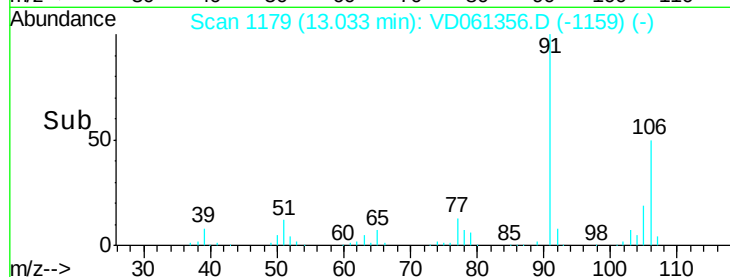
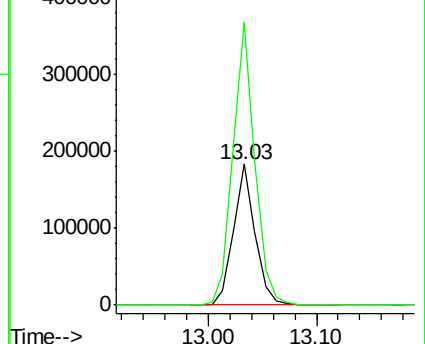
106 100

91 200.9 103.8 311.3



Abundance Ion 106.05 (105.75 to 106.75): V

Ion 91.00 (90.70 to 91.70): VDC



#70

Styrene

Concen: 21.831 ug/l

RT: 13.05 min Scan# 1181

Delta R.T. -0.01 min

Lab File: VD061356.D

Acq: 27 Mar 2019 16:33

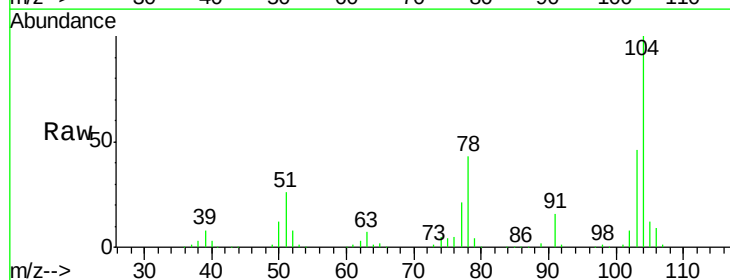
Tgt Ion:104 Resp: 449223

Ion Ratio Lower Upper

104 100

78 42.6 31.0 46.6

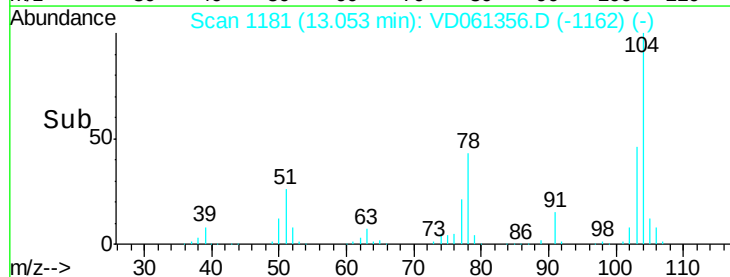
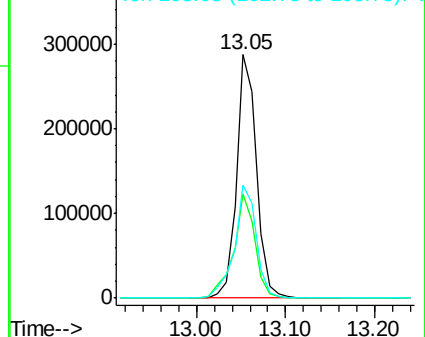
103 46.4 37.0 55.4

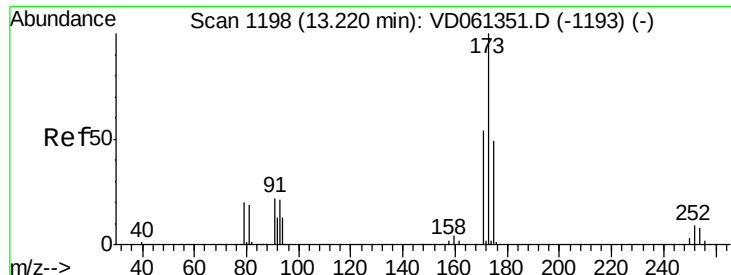


Abundance Ion 104.05 (103.75 to 104.75): V

Ion 77.95 (77.65 to 78.65): VDC

Ion 103.05 (102.75 to 103.75): V





#71

Bromoform

Concen: 20.395 ug/l

RT: 13.22 min Scan# 1198

Delta R.T. 0.00 min

Lab File: VD061356.D

Acq: 27 Mar 2019 16:33

Instrument :

MSVOA_D

ClientSampleId :

VD0327SBS01

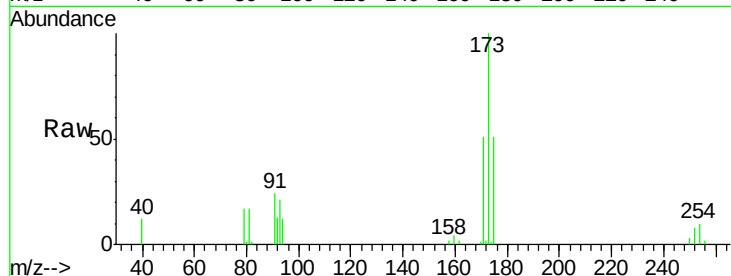
Tot Ion:173 Resp: 105313

Ion Ratio Lower Upper

173 100

175 51.1 24.6 73.8

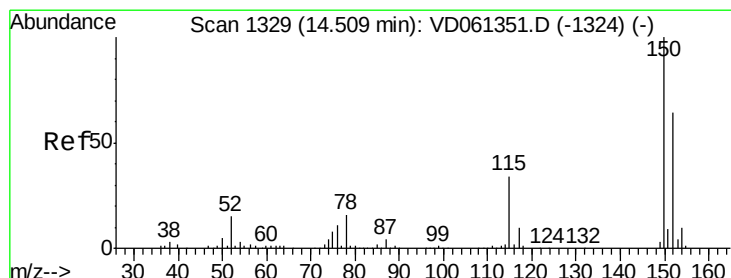
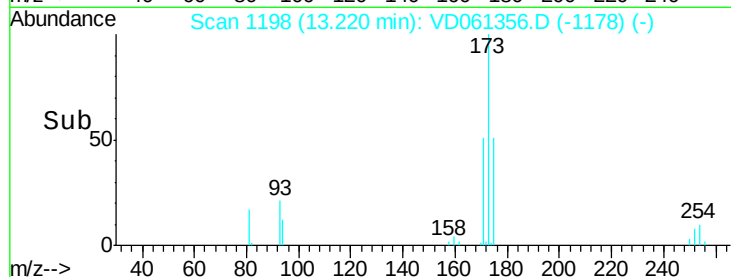
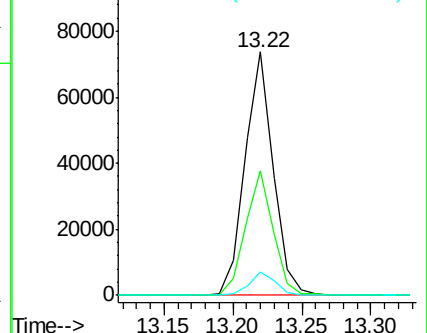
254 9.7 6.6 10.0



Abundance Ion 172.80 (172.50 to 173.50): V

Ion 174.80 (174.50 to 175.50): V

Ion 253.70 (253.40 to 254.40): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.51 min Scan# 1329

Delta R.T. 0.00 min

Lab File: VD061356.D

Acq: 27 Mar 2019 16:33

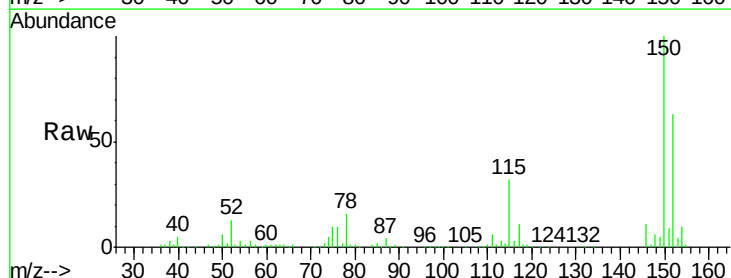
Tgt Ion:152 Resp: 433162

Ion Ratio Lower Upper

152 100

115 50.8 26.9 80.6

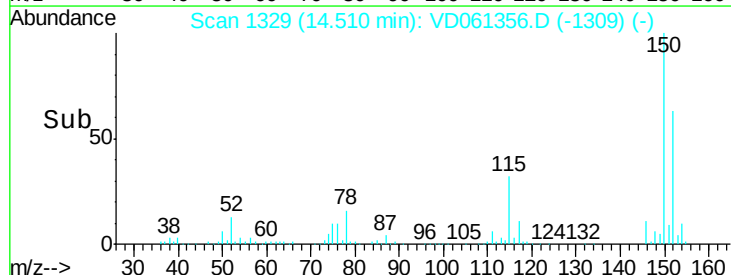
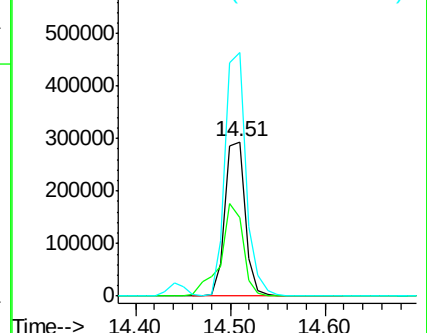
150 157.9 0.0 318.0

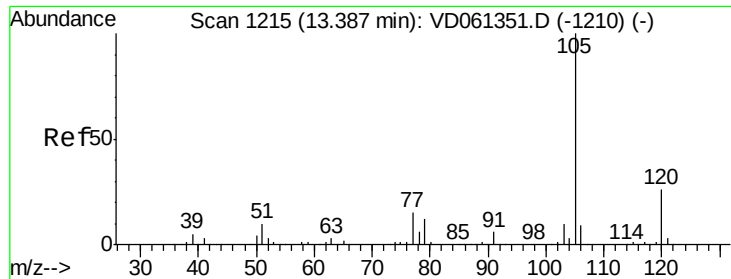


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 115.00 (114.70 to 115.70): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 22.260 ug/l

RT: 13.39 min Scan# 1215

Delta R.T. 0.00 min

Lab File: VD061356.D

Acq: 27 Mar 2019 16:33

Instrument :

MSVOA_D

ClientSampleId :

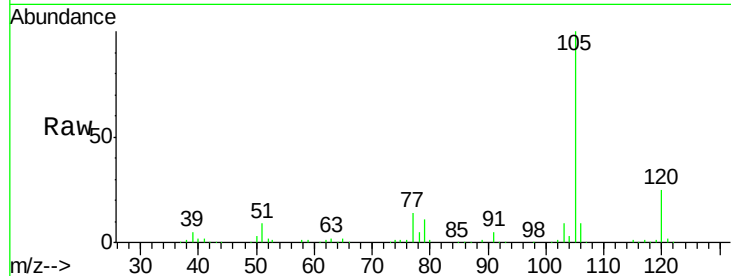
VD0327SBS01

Tot Ion:105 Resp: 671101

Ion Ratio Lower Upper

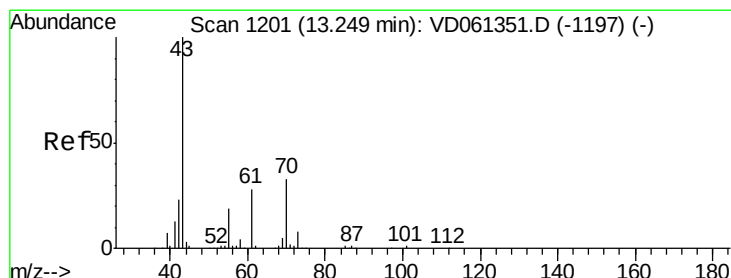
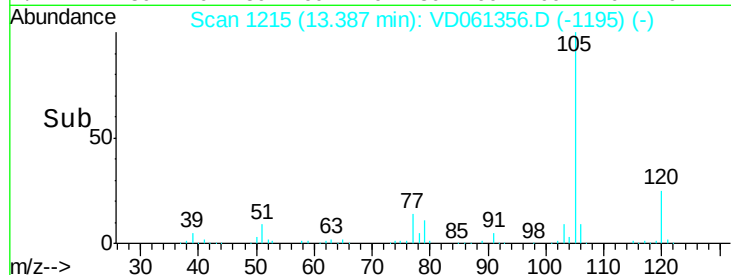
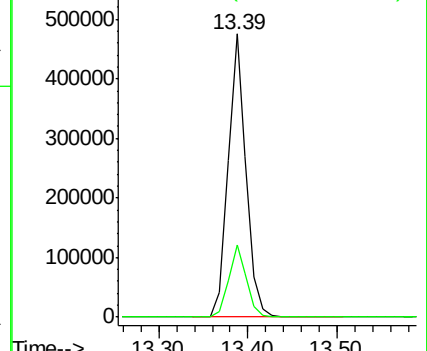
105 100

120 25.5 12.8 38.3



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V



#74

N-ethyl acetate

Concen: 22.095 ug/l

RT: 13.25 min Scan# 1201

Delta R.T. 0.00 min

Lab File: VD061356.D

Acq: 27 Mar 2019 16:33

Tgt Ion: 43 Resp: 185561

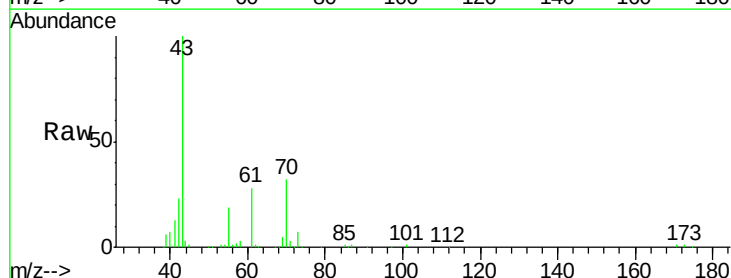
Ion Ratio Lower Upper

43 100

70 31.9 26.6 40.0

55 19.2 15.4 23.2

61 27.8 22.2 33.4

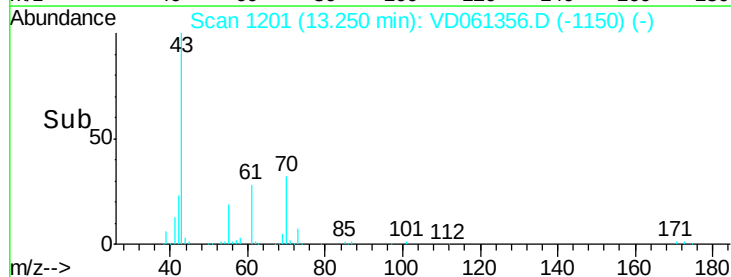
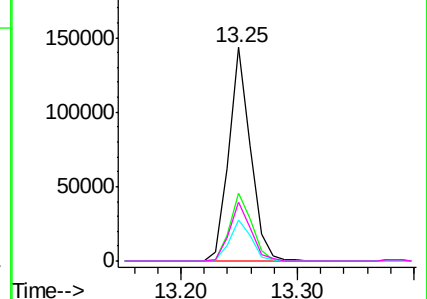


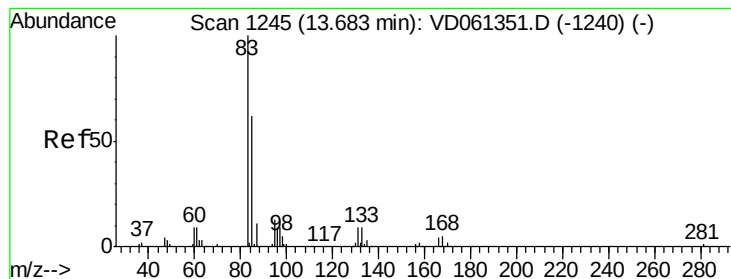
Abundance Ion 42.95 (42.65 to 43.65): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 60.95 (60.65 to 61.65): V





#75

1,1,2,2-Tetrachloroethane

Concen: 21.047 ug/l

RT: 13.68 min Scan# 1245

Delta R.T. 0.00 min

Lab File: VD061356.D

Acq: 27 Mar 2019 16:33

Instrument :

MSVOA_D

ClientSampleId :

VD0327SBS01

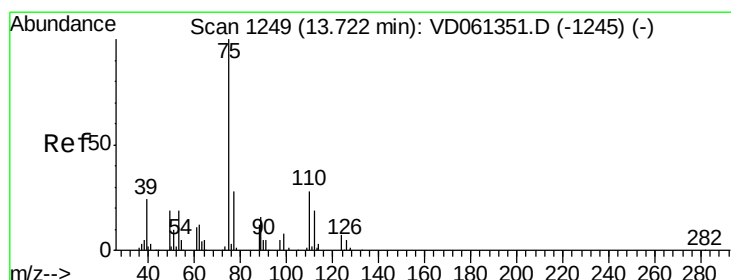
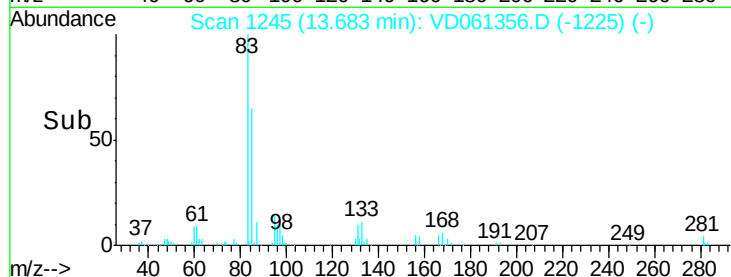
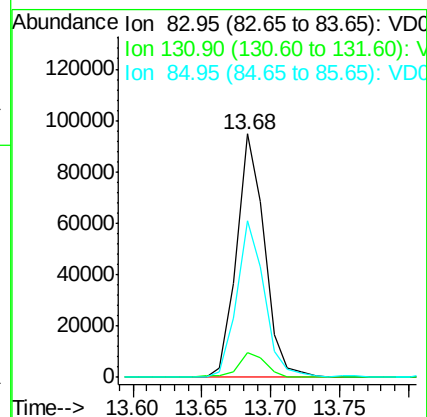
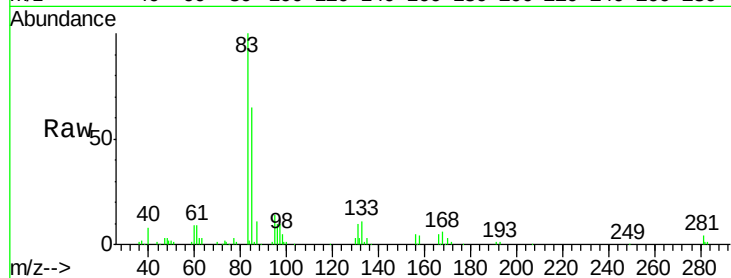
Tot Ion: 83 Resp: 133851

Ion Ratio Lower Upper

83 100

131 10.1 4.3 13.1

85 64.5 31.2 93.6



#76

1,2,3-Trichloropropane

Concen: 20.784 ug/l

RT: 13.72 min Scan# 1249

Delta R.T. 0.00 min

Lab File: VD061356.D

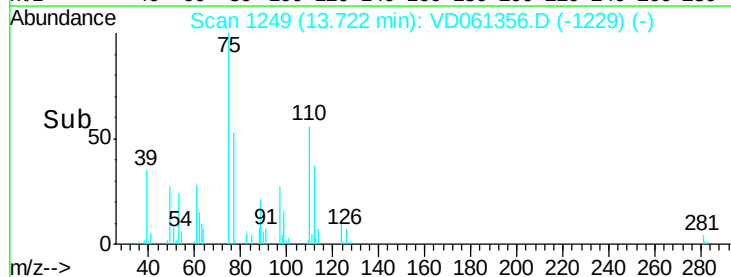
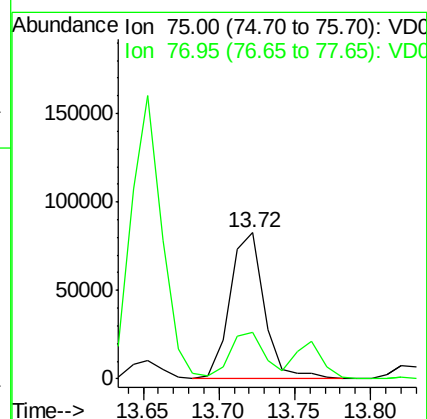
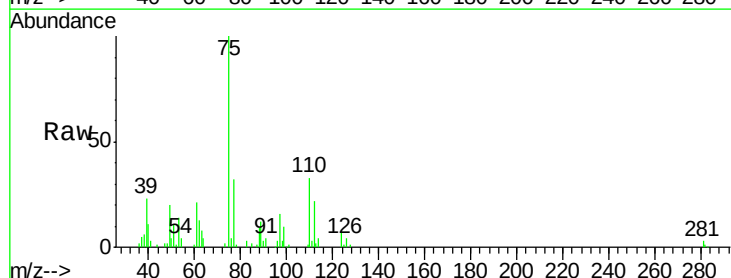
Acq: 27 Mar 2019 16:33

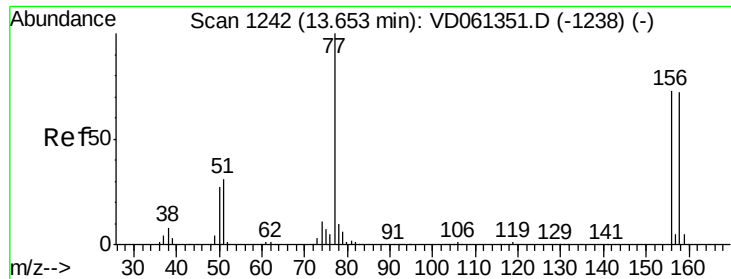
Tgt Ion: 75 Resp: 130050

Ion Ratio Lower Upper

75 100

77 32.1 16.2 48.5





#77

Bromobenzene

Concen: 21.059 ug/l

RT: 13.65 min Scan# 1242

Delta R.T. 0.00 min

Lab File: VD061356.D

Acq: 27 Mar 2019 16:33

Instrument :

MSVOA_D

ClientSampleId :

VD0327SBS01

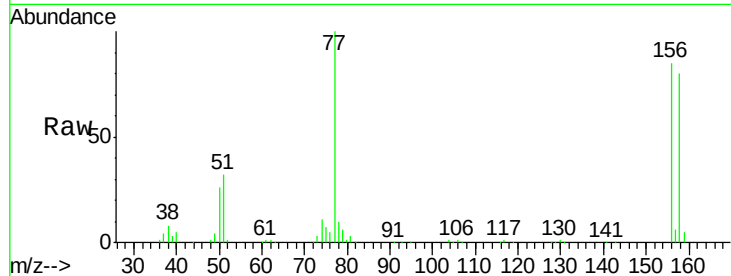
Tot Ion:156 Resp: 188217

Ion Ratio Lower Upper

156 100

77 117.9 68.5 205.6

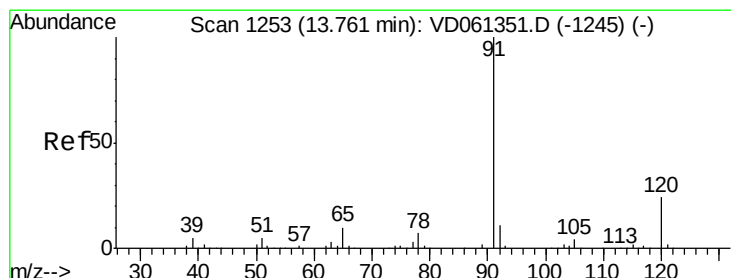
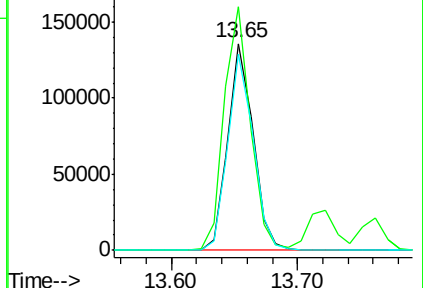
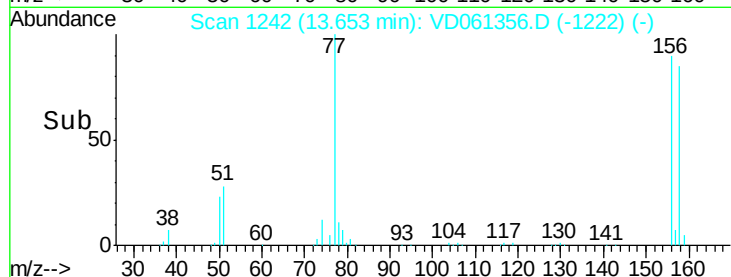
158 94.8 49.1 147.3



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: 21.059 ug/l

RT: 13.76 min Scan# 1253

Delta R.T. 0.00 min

Lab File: VD061356.D

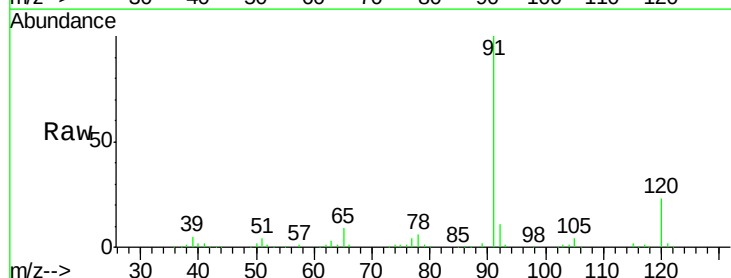
Acq: 27 Mar 2019 16:33

Tgt Ion: 91 Resp: 776939

Ion Ratio Lower Upper

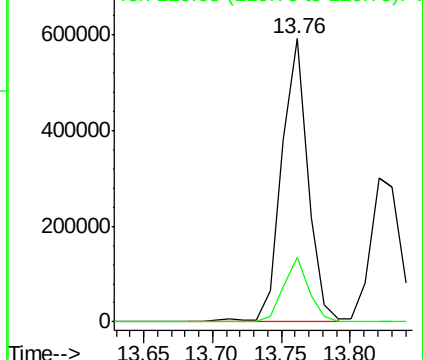
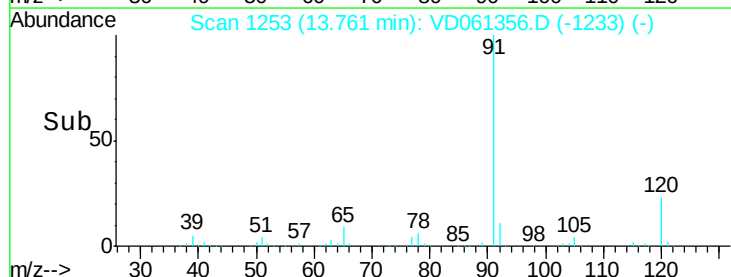
91 100

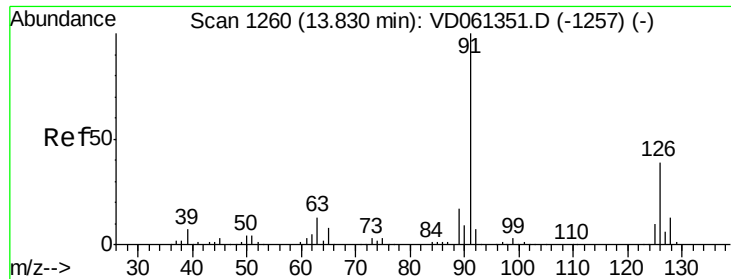
120 22.6 11.8 35.3



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.05 (119.75 to 120.75): V





#79

2-Chlorotoluene

Concen: 22.499 ug/l

RT: 13.82 min Scan# 1259

Delta R.T. -0.01 min

Lab File: VD061356.D

Acq: 27 Mar 2019 16:33

Instrument :

MSVOA_D

ClientSampleId :

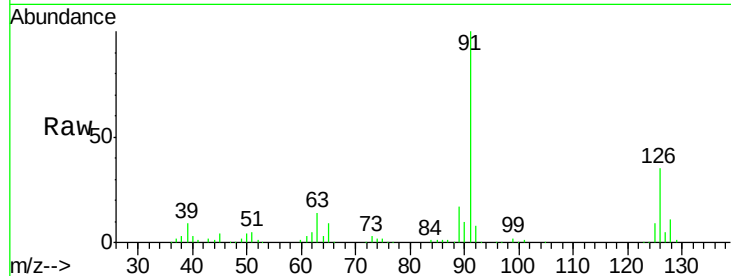
VD0327SBS01

Tot Ion: 91 Resp: 450701

Ion Ratio Lower Upper

91 100

126 34.8 19.4 58.2



Abundance Ion 91.00 (90.70 to 91.70): VD061351.D (-1257) (-)

Ion 125.95 (125.65 to 126.65): VD061351.D (-1257) (-)

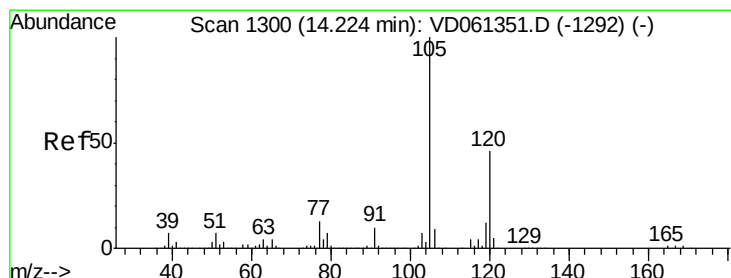
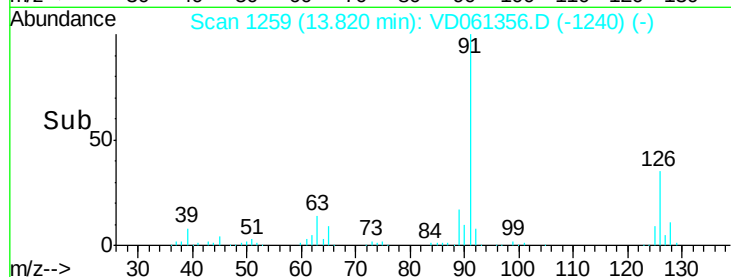
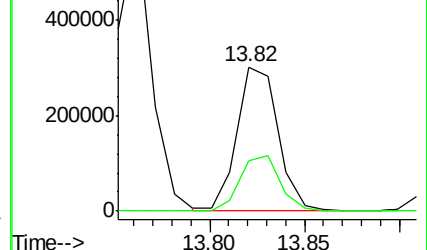
600000

400000

200000

0

13.80 13.85



#80

1,3,5-Trimethylbenzene

Concen: 21.147 ug/l

RT: 14.22 min Scan# 1300

Delta R.T. 0.00 min

Lab File: VD061356.D

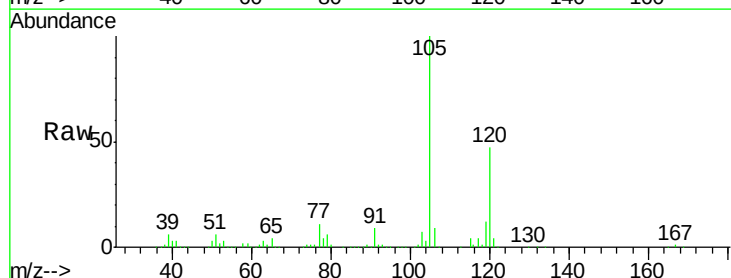
Acq: 27 Mar 2019 16:33

Tgt Ion:105 Resp: 535529

Ion Ratio Lower Upper

105 100

120 46.7 22.8 68.4



Abundance Ion 105.05 (104.75 to 105.75): VD061351.D (-1292) (-)

Ion 120.05 (119.75 to 120.75): VD061351.D (-1292) (-)

600000

500000

400000

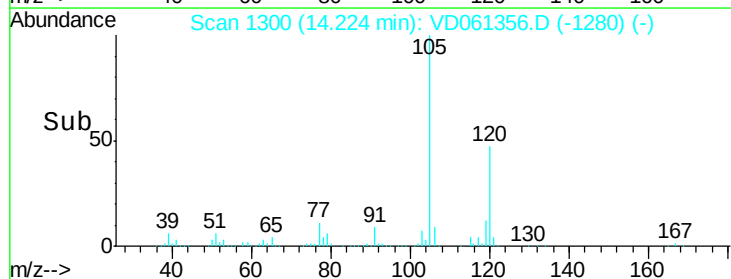
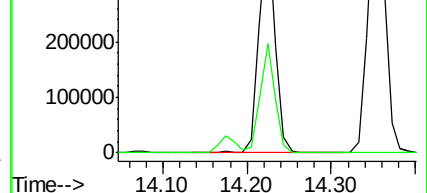
300000

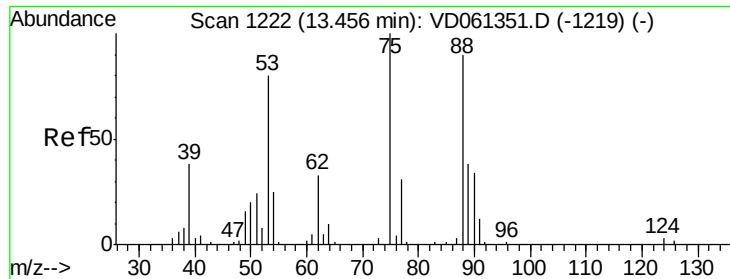
200000

100000

0

14.10 14.20 14.30





#81

trans-1,4-Dichloro-2-butene

Concen: 21.030 ug/l

RT: 13.46 min Scan# 1222

Delta R.T. 0.00 min

Lab File: VD061356.D

Acq: 27 Mar 2019 16:33

Instrument :

MSVOA_D

ClientSampleId :

VD0327SBS01

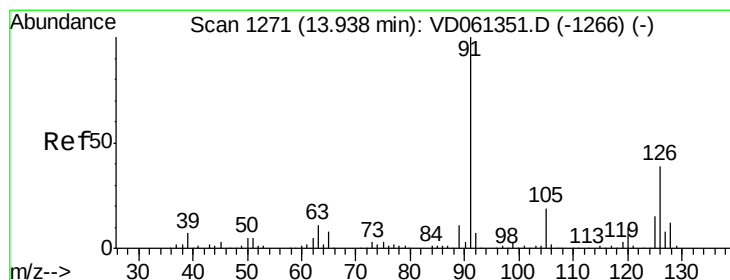
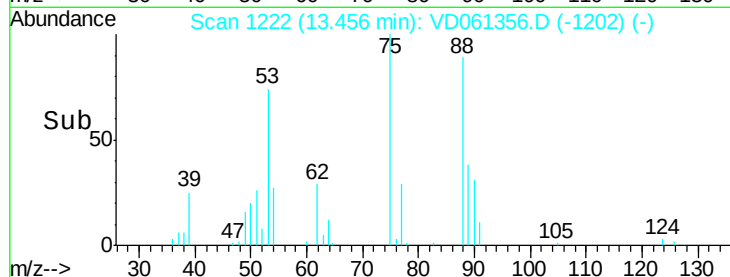
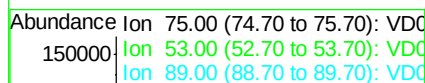
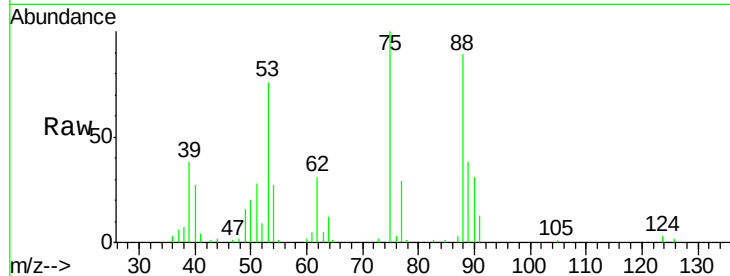
Tot Ion: 75 Resp: 40121

Ion Ratio Lower Upper

75 100

53 75.8 63.8 95.8

89 38.3 30.5 45.7



#82

4-Chlorotoluene

Concen: 23.090 ug/l

RT: 13.93 min Scan# 1270

Delta R.T. -0.01 min

Lab File: VD061356.D

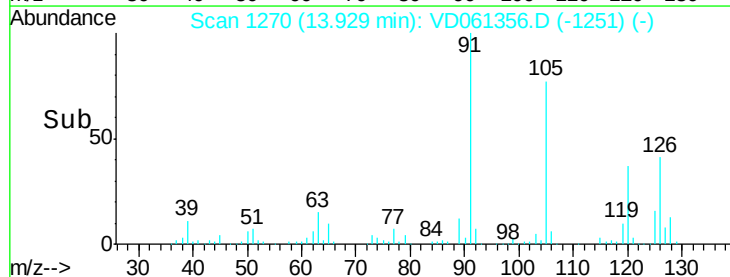
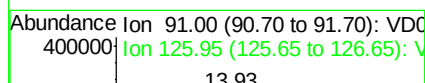
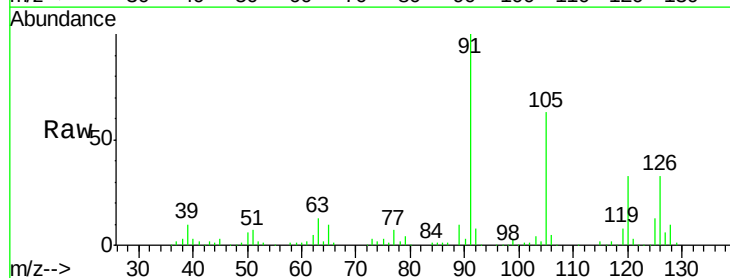
Acq: 27 Mar 2019 16:33

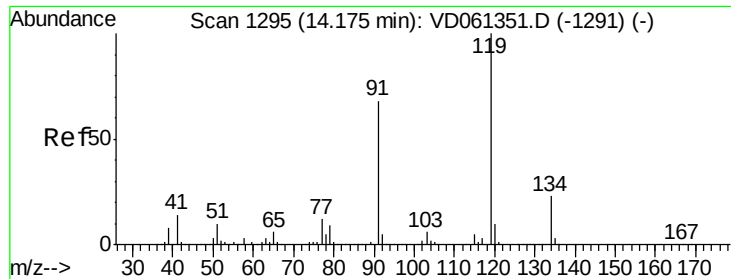
Tgt Ion: 91 Resp: 502935

Ion Ratio Lower Upper

91 100

126 32.6 19.6 58.8

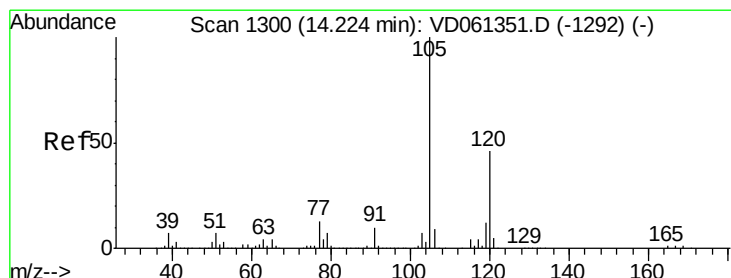
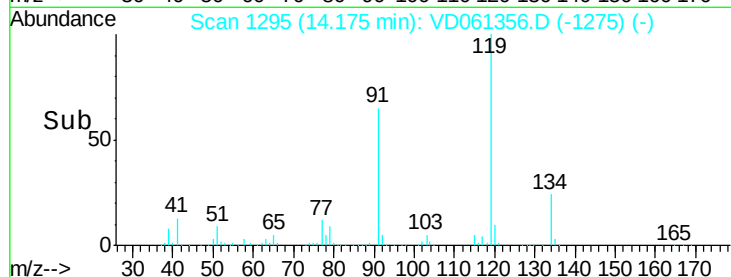
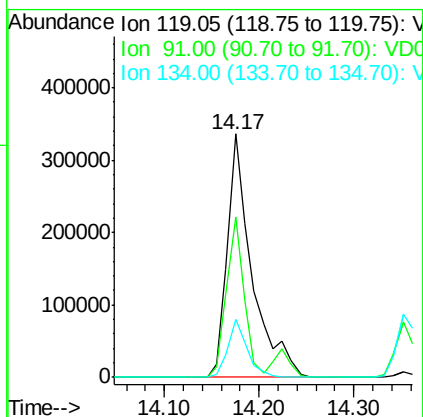
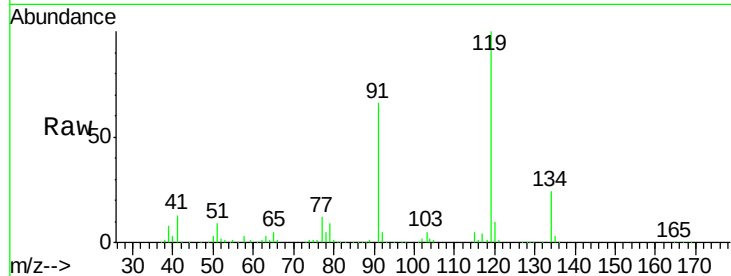




#83
 tert-Butylbenzene
 Concen: 20.736 ug/l
 RT: 14.17 min Scan# 1295
 Delta R.T. 0.00 min
 Lab File: VD061356.D
 Acq: 27 Mar 2019 16:33

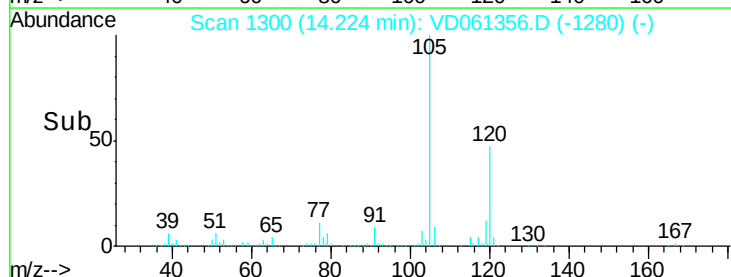
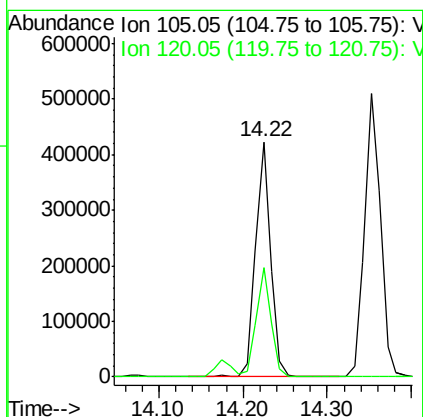
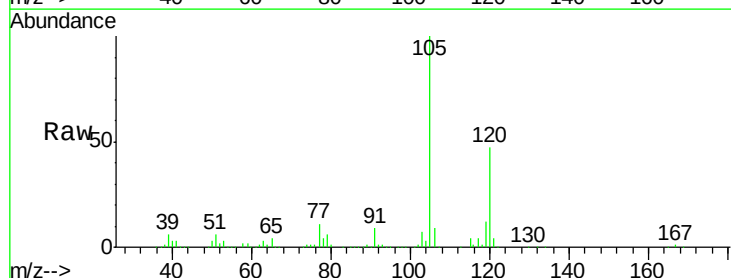
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0327SBS01

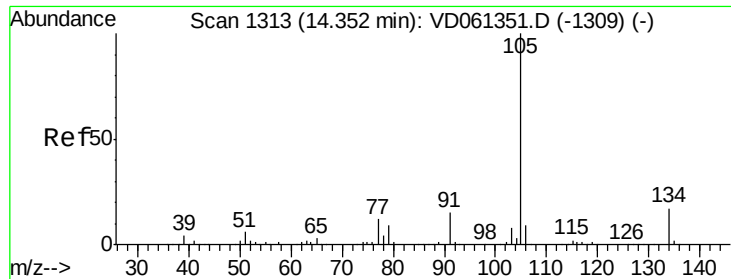
Tot Ion:119 Resp: 606171
 Ion Ratio Lower Upper
 119 100
 91 65.9 34.1 102.3
 134 23.7 11.6 34.8



#84
 1,2,4-Trimethylbenzene
 Concen: 21.147 ug/l
 RT: 14.22 min Scan# 1300
 Delta R.T. 0.00 min
 Lab File: VD061356.D
 Acq: 27 Mar 2019 16:33

Tgt Ion:105 Resp: 535529
 Ion Ratio Lower Upper
 105 100
 120 46.7 22.8 68.4





#85

sec-Butylbenzene

Concen: 21.577 ug/l

RT: 14.35 min Scan# 1313

Delta R.T. 0.00 min

Lab File: VD061356.D

Acq: 27 Mar 2019 16:33

Instrument :

MSVOA_D

ClientSampleId :

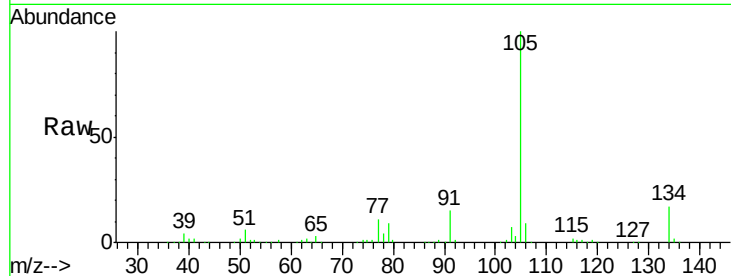
VD0327SBS01

Tot Ion:105 Resp: 670058

Ion Ratio Lower Upper

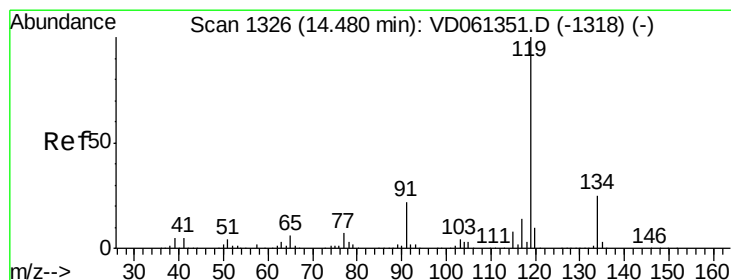
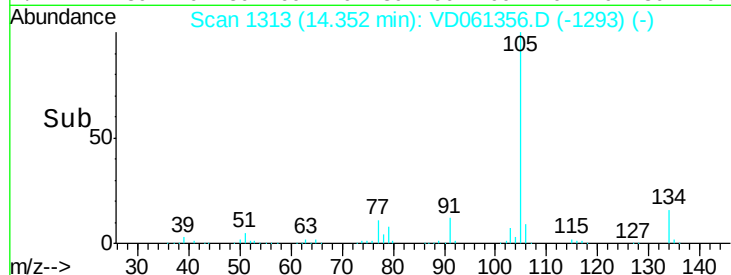
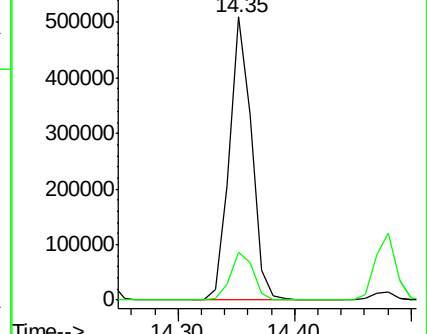
105 100

134 17.1 8.7 26.1



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 134.10 (133.80 to 134.80): V



#86

p-Isopropyltoluene

Concen: 23.717 ug/l

RT: 14.48 min Scan# 1326

Delta R.T. 0.00 min

Lab File: VD061356.D

Acq: 27 Mar 2019 16:33

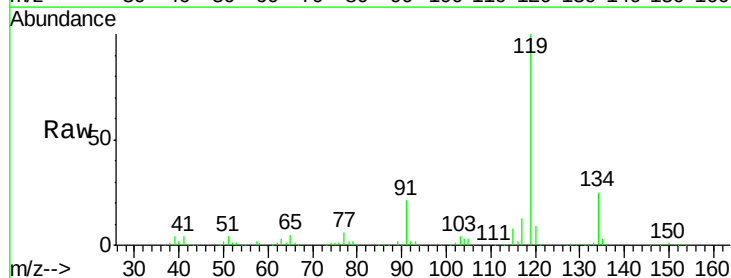
Tgt Ion:119 Resp: 622817

Ion Ratio Lower Upper

119 100

134 24.7 12.3 36.8

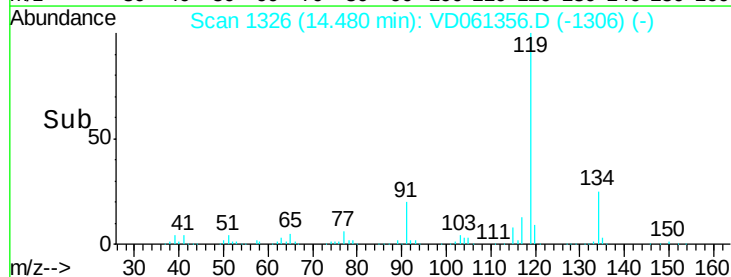
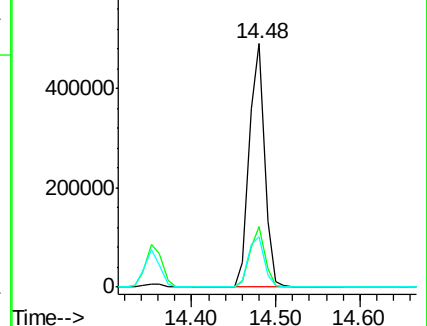
91 20.5 11.1 33.1

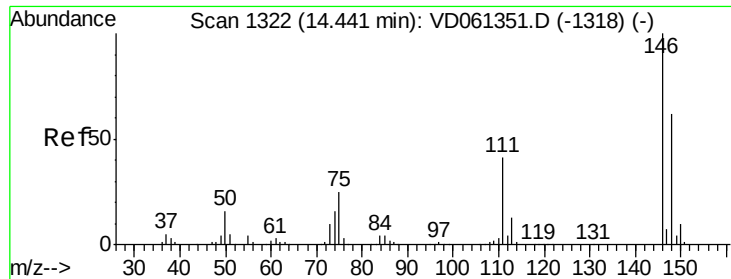


Abundance Ion 119.05 (118.75 to 119.75): V

Ion 134.10 (133.80 to 134.80): V

Ion 91.00 (90.70 to 91.70): V

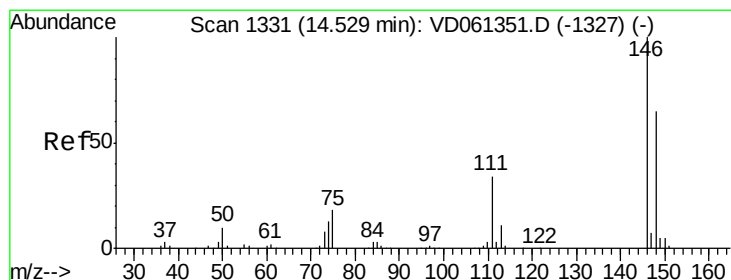
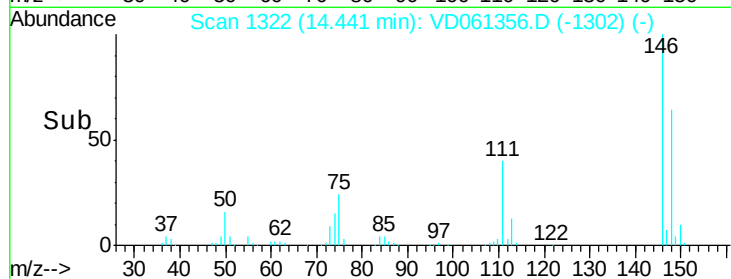
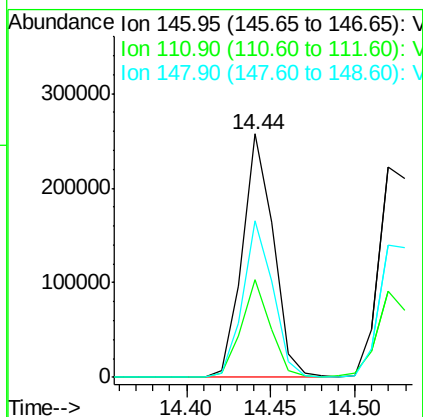
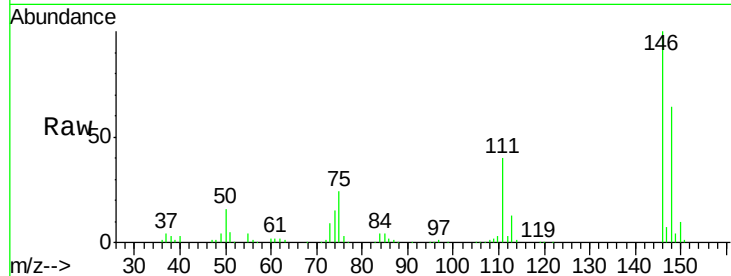




#87
 1,3-Dichlorobenzene
 Concen: 21.680 ug/l
 RT: 14.44 min Scan# 1322
 Delta R.T. 0.00 min
 Lab File: VD061356.D
 Acq: 27 Mar 2019 16:33

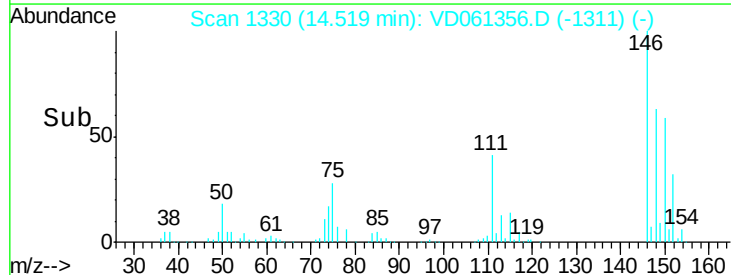
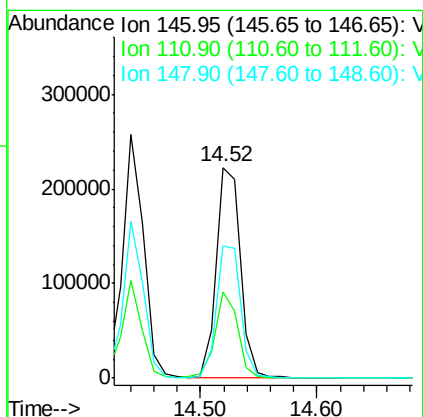
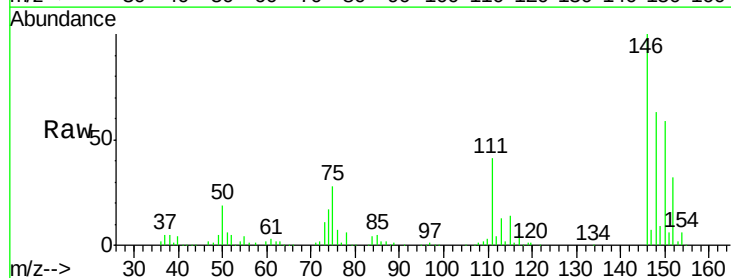
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0327SBS01

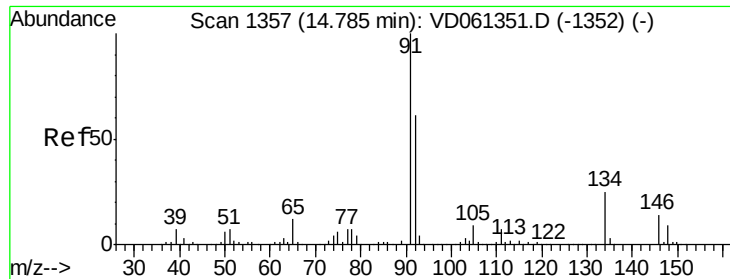
Tot Ion:146 Resp: 328128
 Ion Ratio Lower Upper
 146 100
 111 40.0 20.6 61.9
 148 64.2 31.1 93.3



#88
 1,4-Dichlorobenzene
 Concen: 21.779 ug/l
 RT: 14.52 min Scan# 1330
 Delta R.T. -0.01 min
 Lab File: VD061356.D
 Acq: 27 Mar 2019 16:33

Tgt Ion:146 Resp: 321448
 Ion Ratio Lower Upper
 146 100
 111 41.2 16.8 50.4
 148 62.7 32.6 98.0





#89

n-Butylbenzene

Concen: 22.468 ug/l

RT: 14.79 min Scan# 1357

Delta R.T. 0.00 min

Lab File: VD061356.D

Acq: 27 Mar 2019 16:33

Instrument :

MSVOA_D

ClientSampleId :

VD0327SBS01

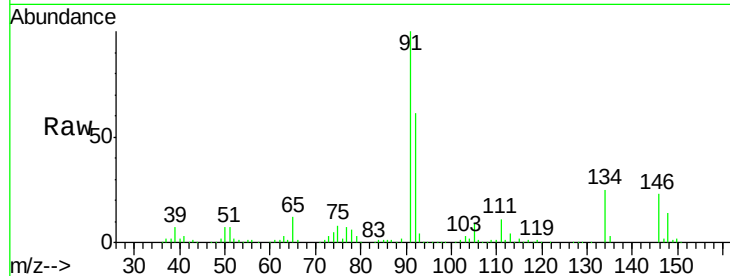
Tot Ion: 91 Resp: 541536

Ion Ratio Lower Upper

91 100

92 61.1 30.3 91.0

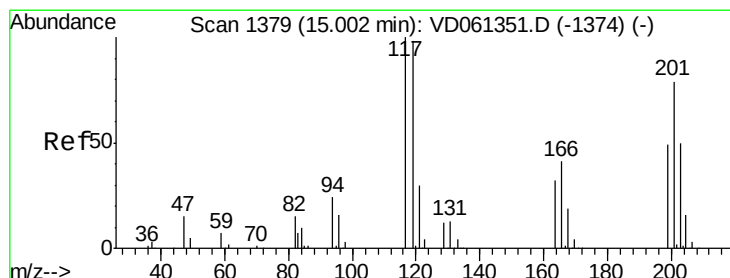
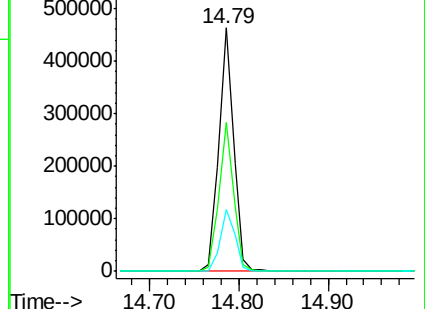
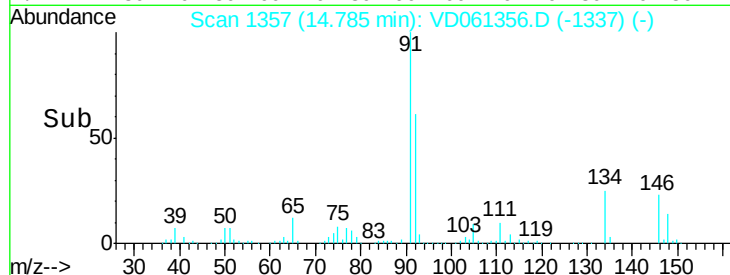
134 25.4 12.4 37.0



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 92.00 (91.70 to 92.70): V

Ion 134.10 (133.80 to 134.80): V



#90

Hexachloroethane

Concen: 19.929 ug/l

RT: 14.99 min Scan# 1378

Delta R.T. -0.01 min

Lab File: VD061356.D

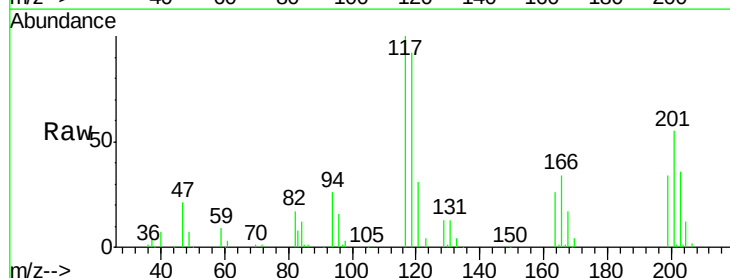
Acq: 27 Mar 2019 16:33

Tgt Ion: 117 Resp: 147849

Ion Ratio Lower Upper

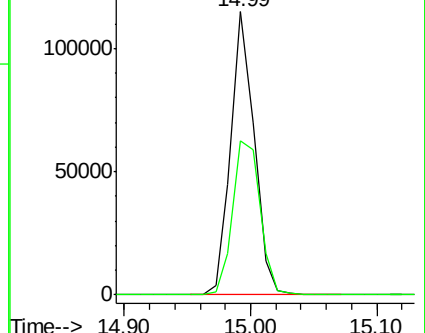
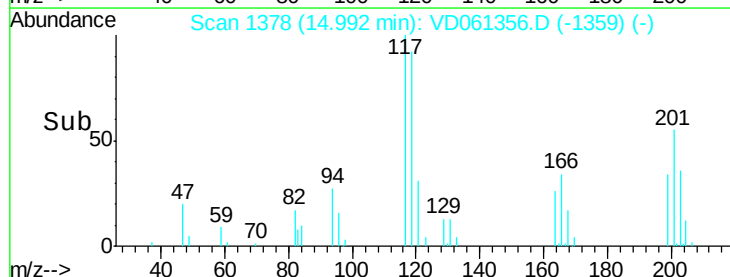
117 100

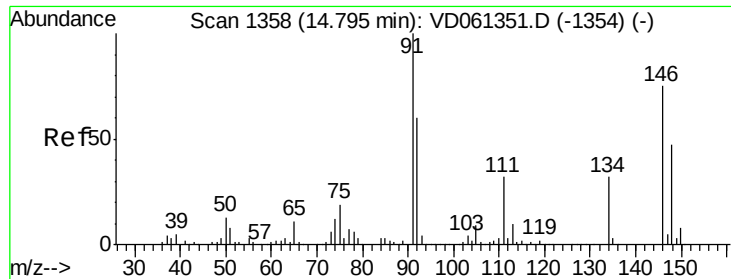
201 54.5 39.6 119.0



Abundance Ion 116.85 (116.55 to 117.55): V

Ion 200.75 (200.45 to 201.45): V





#91

1,2-Dichlorobenzene

Concen: 22.782 ug/l

RT: 14.80 min Scan# 1358

Delta R.T. 0.00 min

Lab File: VD061356.D

Acq: 27 Mar 2019 16:33

Instrument :

MSVOA_D

ClientSampleId :

VD0327SBS01

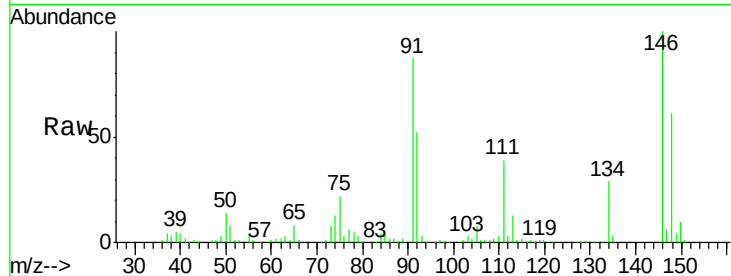
Tot Ion:146 Resp: 282823

Ion Ratio Lower Upper

146 100

111 39.3 21.2 63.6

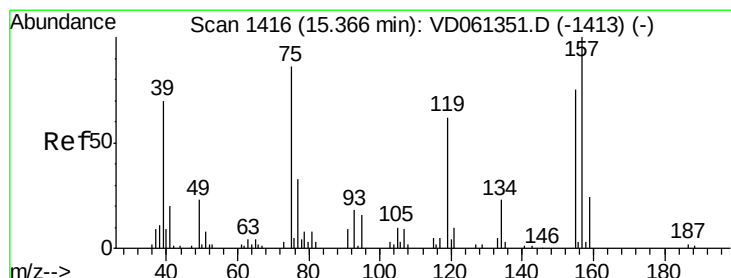
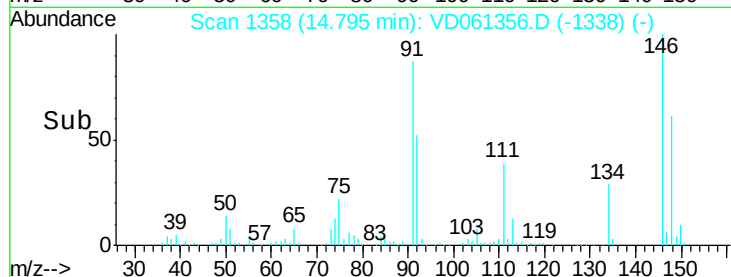
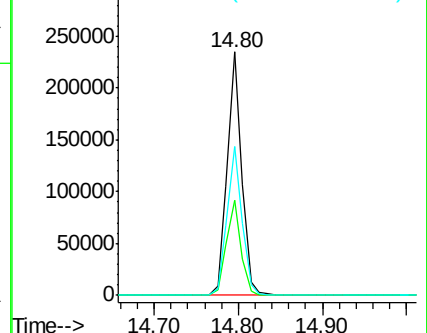
148 61.2 31.6 95.0



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 20.620 ug/l

RT: 15.37 min Scan# 1416

Delta R.T. 0.00 min

Lab File: VD061356.D

Acq: 27 Mar 2019 16:33

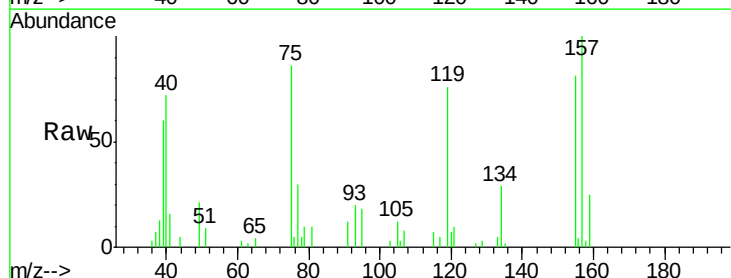
Tgt Ion: 75 Resp: 15380

Ion Ratio Lower Upper

75 100

155 94.4 43.6 130.9

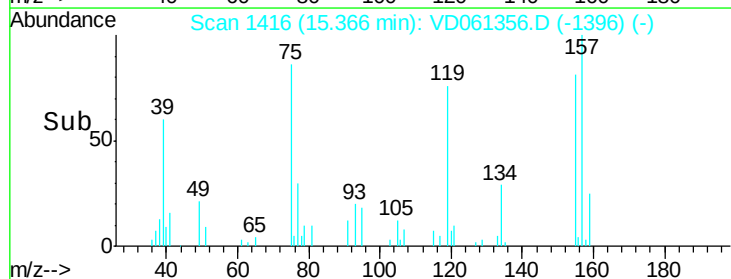
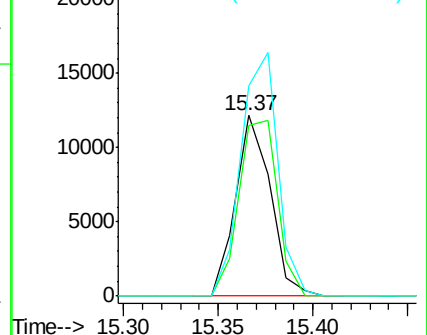
157 116.5 58.5 175.3

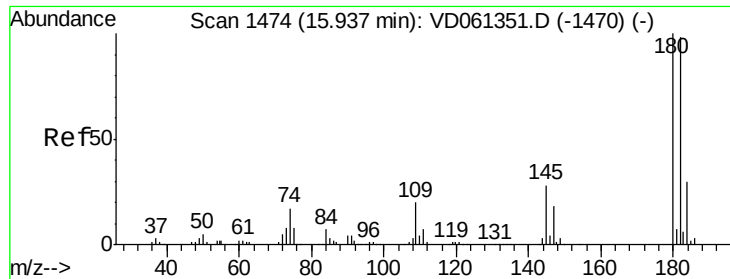


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 154.90 (154.60 to 155.60): V

Ion 156.85 (156.55 to 157.55): V

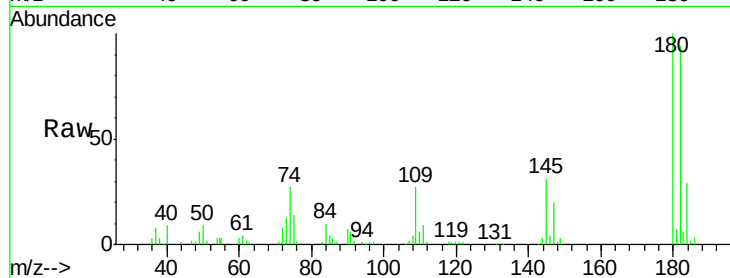




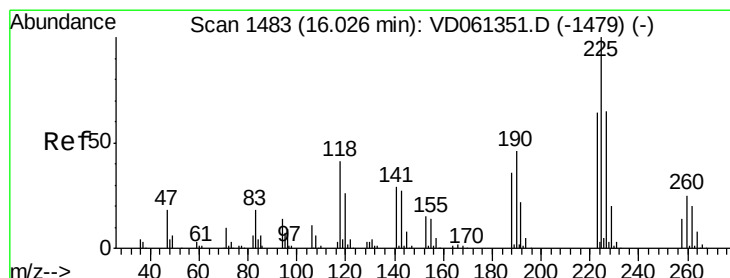
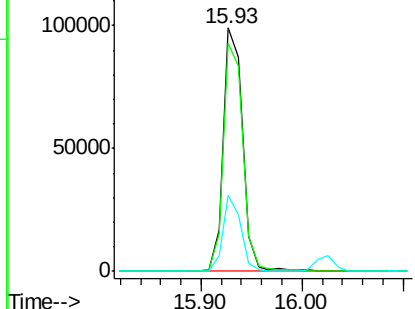
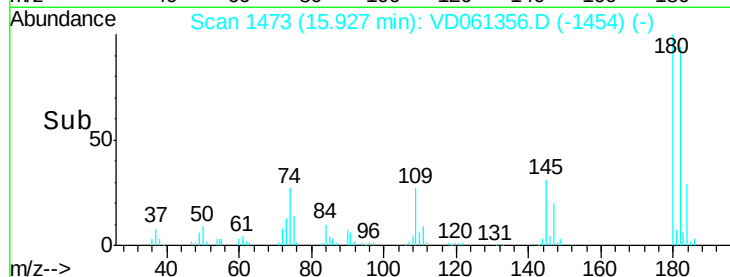
#93
 1,2,4-Trichlorobenzene
 Concen: 23.379 ug/l
 RT: 15.93 min Scan# 1473
 Delta R.T. -0.01 min
 Lab File: VD061356.D
 Acq: 27 Mar 2019 16:33

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0327SBS01

Tot Ion	Ratio	Lower	Upper
180	100		
182	93.6	48.9	146.8
145	31.2	14.1	42.3

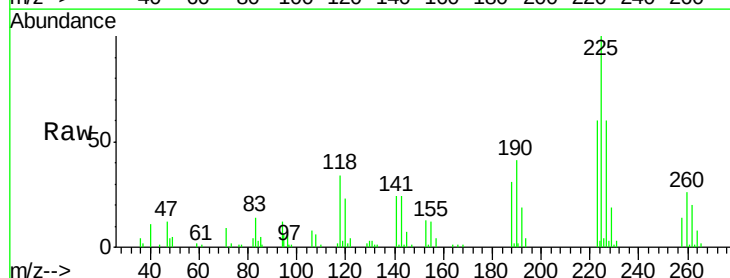


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V

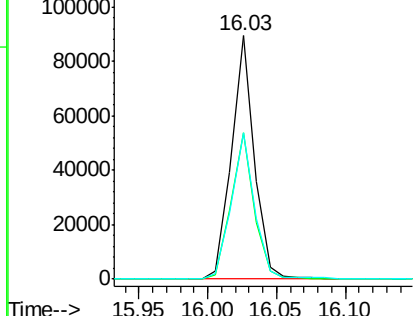
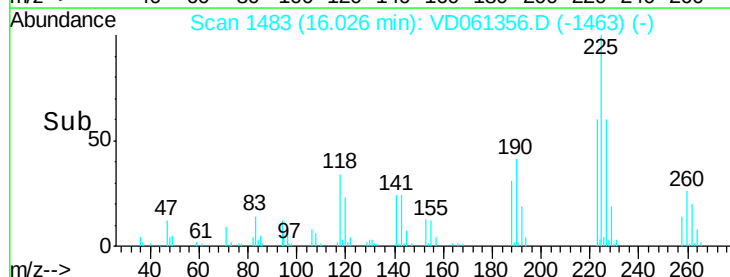


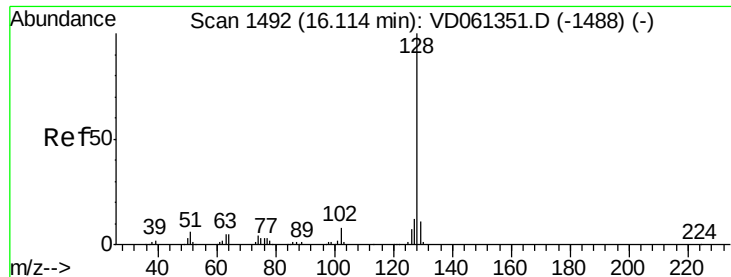
#94
 Hexachlorobutadiene
 Concen: 23.249 ug/l
 RT: 16.03 min Scan# 1483
 Delta R.T. 0.00 min
 Lab File: VD061356.D
 Acq: 27 Mar 2019 16:33

Tgt Ion	Ratio	Lower	Upper
225	100		
223	60.3	32.0	96.0
227	60.2	32.4	97.2



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

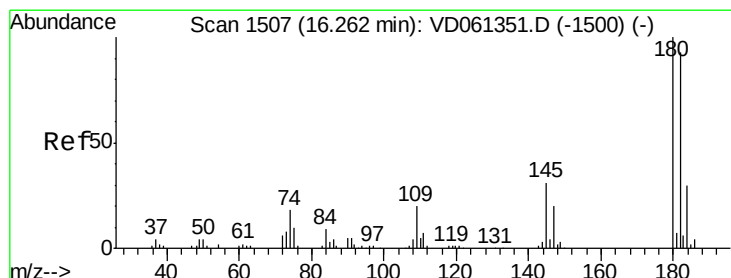
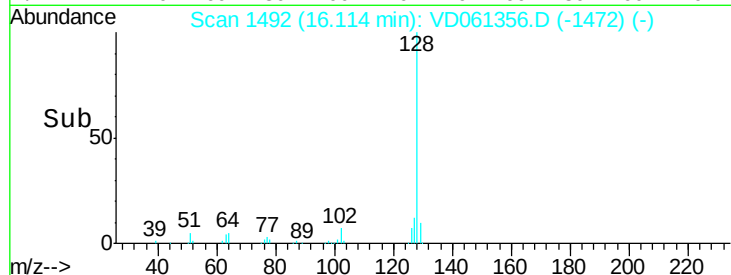
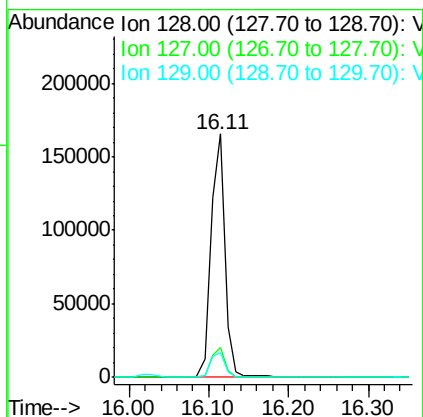
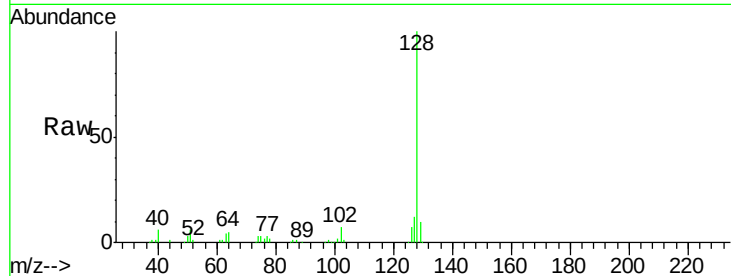




#95
Naphthalene
Concen: 23.712 ug/l
RT: 16.11 min Scan# 1492
Delta R.T. 0.00 min
Lab File: VD061356.D
Acq: 27 Mar 2019 16:33

Instrument :
MSVOA_D
ClientSampleId :
VD0327SBS01

Tot Ion:128 Resp: 204397
Ion Ratio Lower Upper
128 100
127 12.3 9.9 14.9
129 10.3 8.9 13.3



#96
1,2,3-Trichlorobenzene
Concen: 23.265 ug/l
RT: 16.26 min Scan# 1507
Delta R.T. 0.00 min
Lab File: VD061356.D
Acq: 27 Mar 2019 16:33

Tgt Ion:180 Resp: 57895
Ion Ratio Lower Upper
180 100
182 103.3 46.4 139.1
145 29.7 15.3 45.9

