

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD072219\
 Data File : VD063168.D
 Acq On : 22 Jul 2019 10:53
 Operator : VA/AP
 Sample : VSTDCCC050
 Misc : 5.00g/5ml/MSVOA D/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Quant Time: Jul 23 07:46:48 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D071519S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 16 08:11:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.06	168	744593	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	8.23	114	993684	50.00	ug/l	0.02
63) Chlorobenzene-d5	12.37	117	851670	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	14.52	152	455777	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.46	65	422869	45.59	ug/l	0.01
Spiked Amount			Recovery	=	91.18%	
35) Dibromofluoromethane	6.94	113	484171	48.92	ug/l	0.02
Spiked Amount			Recovery	=	97.84%	
50) Toluene-d8	10.41	98	948290	44.61	ug/l	0.01
Spiked Amount			Recovery	=	89.22%	
62) 4-Bromofluorobenzene	13.56	95	448138	45.56	ug/l	0.01
Spiked Amount			Recovery	=	91.12%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.57	85	402753	50.784	ug/l	98
3) Chloromethane	1.76	50	328168	48.595	ug/l	96
4) Vinyl Chloride	1.85	62	354311	44.585	ug/l	99
5) Bromomethane	2.15	94	135792	44.460	ug/l	97
6) Chloroethane	2.27	64	186391	50.492	ug/l #	89
7) Trichlorofluoromethane	2.54	101	782007	48.610	ug/l	100
8) Diethyl Ether	2.88	74	128455	56.764	ug/l	89
9) 1,1,2-Trichlorotrifluoroet	3.15	101	444516	47.920	ug/l	95
10) Methyl Iodide	3.31	142	571406	50.176	ug/l	96
11) Tert butyl alcohol	4.09	59	140418	262.321	ug/l #	90
12) 1,1-Dichloroethene	3.13	96	302776	45.965	ug/l	97
13) Acrolein	3.04	56	26687	165.184	ug/l	98
14) Allyl chloride	3.62	41	514827	49.729	ug/l	98
15) Acrylonitrile	4.21	53	325722	275.274	ug/l	99
16) Acetone	3.23	43	641423	286.316	ug/l	97
17) Carbon Disulfide	3.37	76	794440	42.135	ug/l	98
18) Methyl Acetate	3.65	43	166559	55.635	ug/l #	84
19) Methyl tert-butyl Ether	4.25	73	907627	54.584	ug/l	97
20) Methylene Chloride	3.82	84	382807	45.230	ug/l	94
21) trans-1,2-Dichloroethene	4.22	96	362406	49.560	ug/l	96
22) Diisopropyl ether	5.14	45	1203590	53.472	ug/l	99
23) Vinyl Acetate	5.07	43	3876669	295.210	ug/l	100
24) 1,1-Dichloroethane	4.99	63	718762	51.840	ug/l	98
25) 2-Butanone	6.08	43	623248	291.337	ug/l	96
26) 2,2-Dichloropropane	6.03	77	774439	50.469	ug/l	97
27) cis-1,2-Dichloroethene	6.05	96	405985	48.806	ug/l	95
28) Bromochloromethane	6.45	49	236797	47.075	ug/l	81
29) Tetrahydrofuran	6.48	42	271414	279.881	ug/l	97
30) Chloroform	6.67	83	869370	50.913	ug/l	97
31) Cyclohexane	6.97	56	423635	47.977	ug/l	95
32) 1,1,1-Trichloroethane	6.88	97	851436	50.566	ug/l	97
36) 1,1-Dichloropropene	7.15	75	538995	48.229	ug/l	96
37) Ethyl Acetate	6.20	43	291618	60.971	ug/l	98
38) Carbon Tetrachloride	7.12	117	900650	53.036	ug/l	95

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	8.88	83	448036	46.371	ug/l	98
40) Benzene	7.46	78	1182658	50.527	ug/l	95
41) Methacrylonitrile	6.47	41	362360	55.881	ug/l #	91
42) 1,2-Dichloroethane	7.59	62	646078	51.810	ug/l	99
43) Isopropyl Acetate	9.25	43	394730	57.577	ug/l	94
44) Trichloroethene	8.55	130	473827	52.381	ug/l	98
45) 1,2-Dichloropropane	8.95	63	312519	53.552	ug/l	94
46) Dibromomethane	9.07	93	270946	54.029	ug/l	93
47) Bromodichloromethane	9.38	83	693382	52.985	ug/l	96
48) Methyl methacrylate	9.13	41	252446	56.073	ug/l	97
49) 1,4-Dioxane	9.09	88	46024	1185.364	ug/l #	83
51) 4-Methyl-2-Pentanone	10.31	43	1363335	299.829	ug/l	100
52) Toluene	10.52	92	803044	51.377	ug/l	96
53) t-1,3-Dichloropropene	10.92	75	622433	55.517	ug/l	100
54) cis-1,3-Dichloropropene	10.05	75	640858	55.281	ug/l	96
55) 1,1,2-Trichloroethane	11.20	97	302880	56.073	ug/l	96
56) Ethyl methacrylate	11.05	69	351858	58.301	ug/l	92
57) 1,3-Dichloropropane	11.42	76	447020	54.387	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.87	63	887835	264.204	ug/l	98
59) 2-Hexanone	11.54	43	1076547	306.995	ug/l	99
60) Dibromochloromethane	11.69	129	556139	53.712	ug/l	94
61) 1,2-Dibromoethane	11.81	107	345643	53.459	ug/l	96
64) Tetrachloroethene	11.27	164	400717	48.489	ug/l	94
65) Chlorobenzene	12.40	112	1043445	52.119	ug/l	97
66) 1,1,1,2-Tetrachloroethane	12.52	131	492334	53.042	ug/l	98
67) Ethyl Benzene	12.53	91	1737930	49.961	ug/l	97
68) m/p-Xylenes	12.68	106	1183107	94.958	ug/l	98
69) o-Xylene	13.05	106	574534	48.632	ug/l	97
70) Styrene	13.08	104	1031800	49.895	ug/l	97
71) Bromoform	13.24	173	385229	59.281	ug/l	98
73) Isopropylbenzene	13.41	105	1783186	50.661	ug/l	99
74) N-amyl acetate	13.27	43	527715	53.758	ug/l	95
75) 1,1,2,2-Tetrachloroethane	13.70	83	337770	52.743	ug/l	96
76) 1,2,3-Trichloropropane	13.74	75	384044	54.776	ug/l	97
77) Bromobenzene	13.67	156	528941	52.991	ug/l	80
78) n-propylbenzene	13.78	91	2108427	52.053	ug/l	97
79) 2-Chlorotoluene	13.85	91	1175484	47.997	ug/l	91
80) 1,3,5-Trimethylbenzene	13.94	105	1438490	46.891	ug/l	98
81) trans-1,4-Dichloro-2-buten	13.47	75	108163	58.584	ug/l	90
82) 4-Chlorotoluene	13.95	91	1432732	50.098	ug/l	91
83) tert-Butylbenzene	14.19	119	1690740	48.743	ug/l	91
84) 1,2,4-Trimethylbenzene	14.24	105	1471564	48.116	ug/l	98
85) sec-Butylbenzene	14.37	105	1744911	47.347	ug/l	97
86) p-Isopropyltoluene	14.50	119	1784636	51.909	ug/l	96
87) 1,3-Dichlorobenzene	14.46	146	921996	51.723	ug/l	98
88) 1,4-Dichlorobenzene	14.54	146	862965	50.497	ug/l	93
89) n-Butylbenzene	14.80	91	1493522	47.131	ug/l	97
90) Hexachloroethane	15.01	117	462294	50.300	ug/l	85
91) 1,2-Dichlorobenzene	14.81	146	786364	49.541	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	15.38	75	73216	59.645	ug/l	75

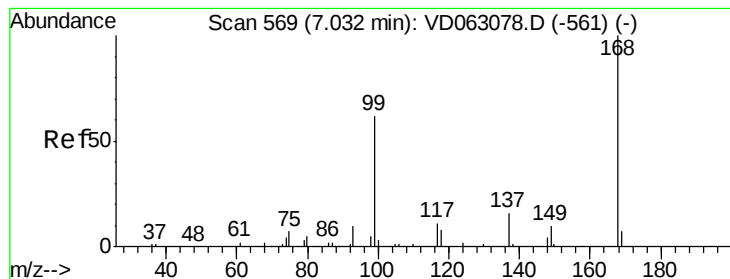
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD072219\
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.95	180	632373	53.028	ug/l	97
94) Hexachlorobutadiene	16.04	225	437578	49.781	ug/l	98
95) Naphthalene	16.12	128	990175	56.763	ug/l	98
96) 1,2,3-Trichlorobenzene	16.27	180	518517	54.050	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.06 min Scan# 572

Delta R.T. 0.02 min

Lab File: VD063168.D

Acq: 22 Jul 2019 10:53

Instrument :

MSVOA_D

ClientSampleId :

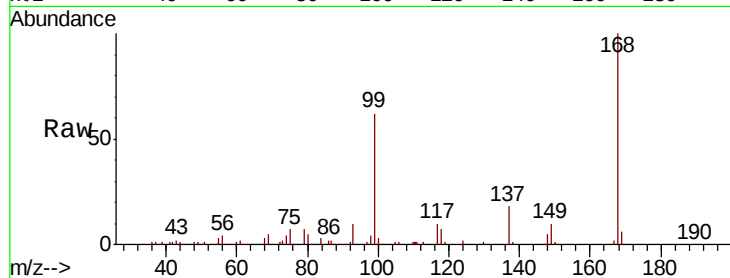
VSTDCCC050

Tot Ion:168 Resp: 744593

Ion Ratio Lower Upper

168 100

99 62.0 50.8 76.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.06

250000

200000

150000

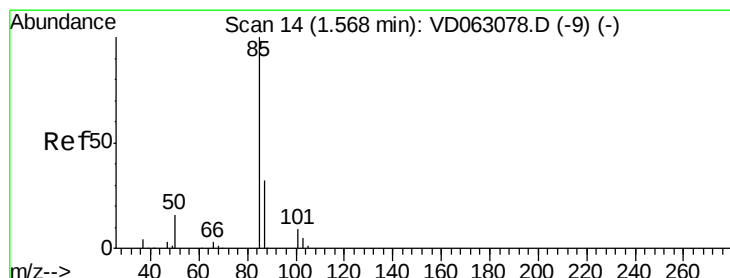
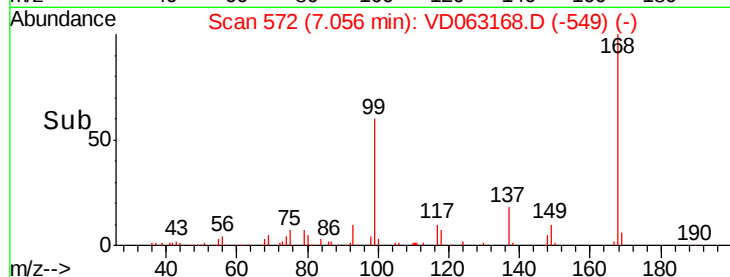
100000

50000

0

6.90 7.00 7.10 7.20

Time-->



#2

Dichlorodifluoromethane

Concen: 50.784 ug/l

RT: 1.57 min Scan# 15

Delta R.T. 0.00 min

Lab File: VD063168.D

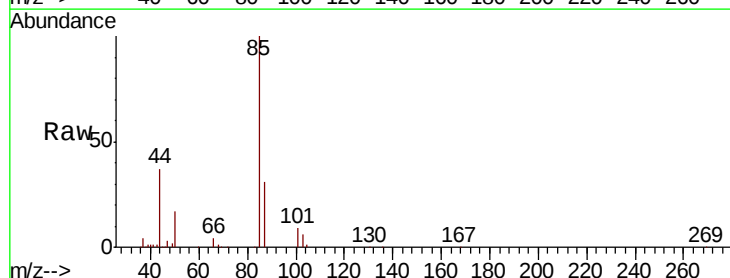
Acq: 22 Jul 2019 10:53

Tgt Ion: 85 Resp: 402753

Ion Ratio Lower Upper

85 100

87 30.7 15.9 47.7



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC

150000

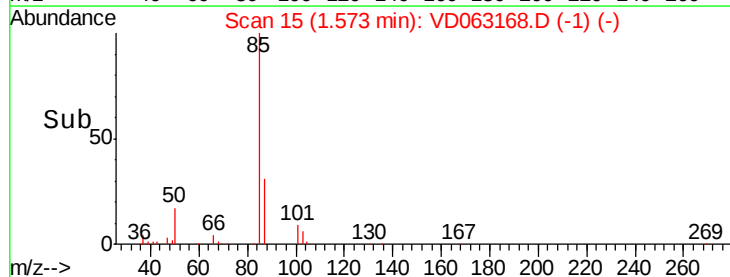
100000

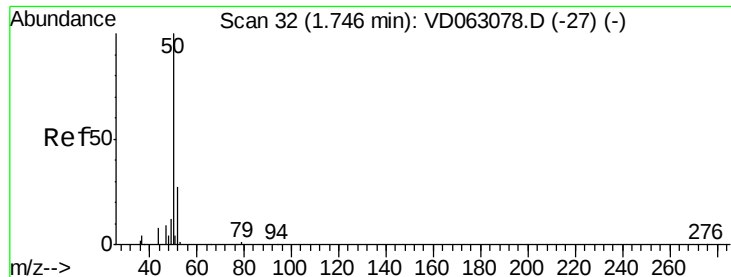
50000

0

1.50 1.60 1.70

Time-->





#3

Chloromethane

Concen: 48.595 ug/l

RT: 1.76 min Scan# 34

Delta R.T. 0.01 min

Lab File: VD063168.D

Acq: 22 Jul 2019 10:53

Instrument :

MSVOA_D

ClientSampleId :

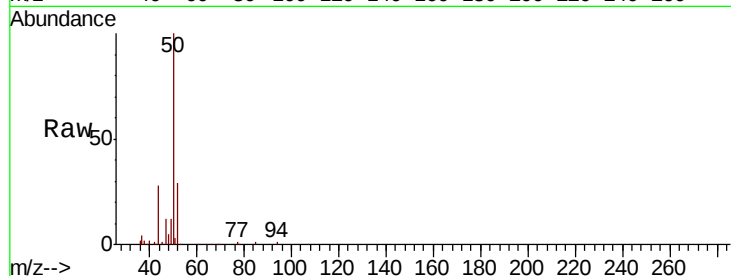
VSTDCCC050

Tot Ion: 50 Resp: 328168

Ion Ratio Lower Upper

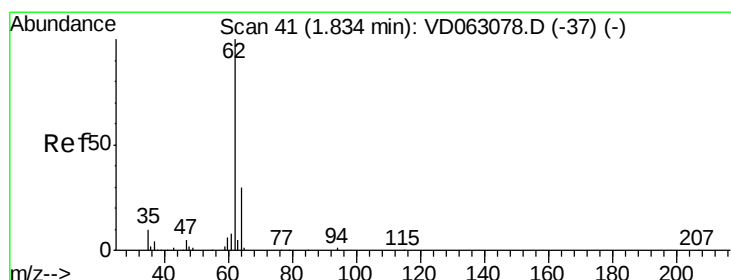
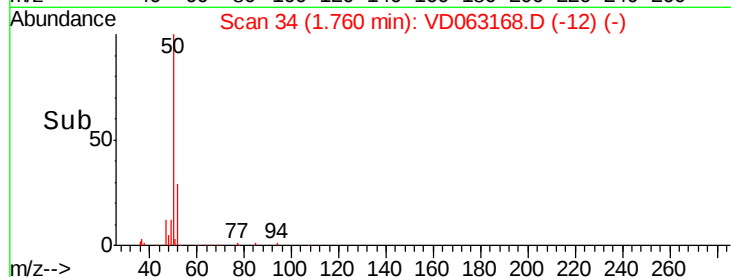
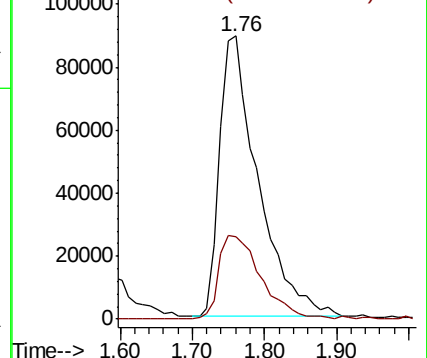
50 100

52 29.0 21.4 32.2



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 44.585 ug/l

RT: 1.85 min Scan# 43

Delta R.T. 0.01 min

Lab File: VD063168.D

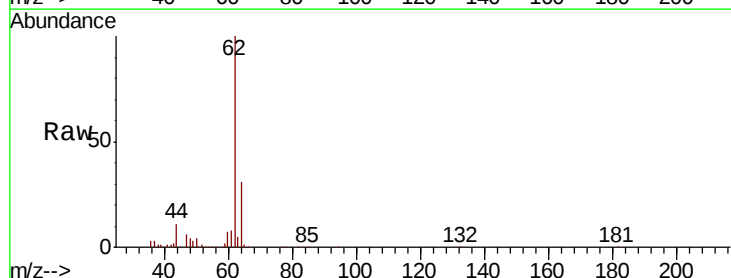
Acq: 22 Jul 2019 10:53

Tgt Ion: 62 Resp: 354311

Ion Ratio Lower Upper

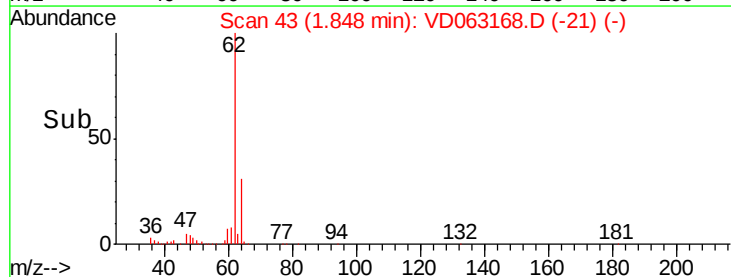
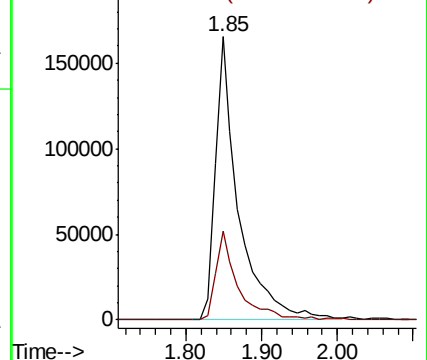
62 100

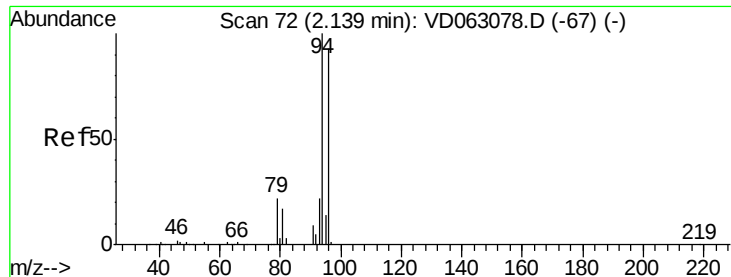
64 31.3 24.4 36.6



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC





#5

Bromomethane

Concen: 44.460 ug/l

RT: 2.15 min Scan# 74

Delta R.T. 0.01 min

Lab File: VD063168.D

Acq: 22 Jul 2019 10:53

Instrument :

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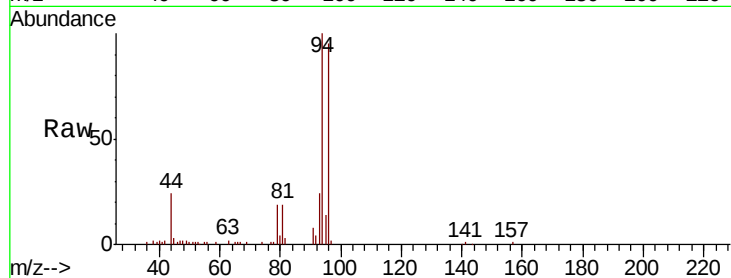
Tot Ion: 94 Resp: 135792

Ion Ratio Lower Upper

94 100

96 95.2 74.2 111.2

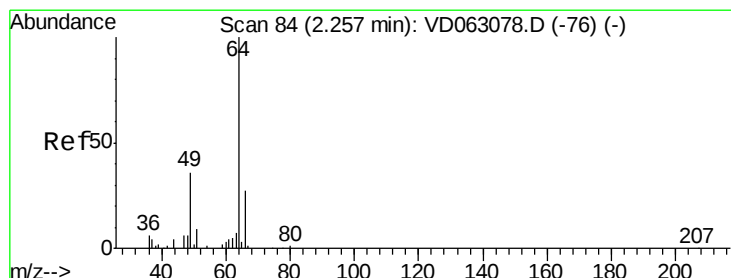
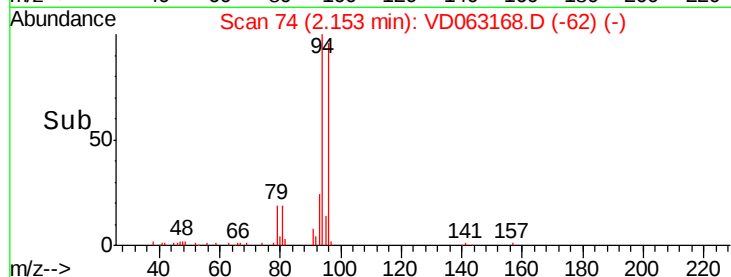
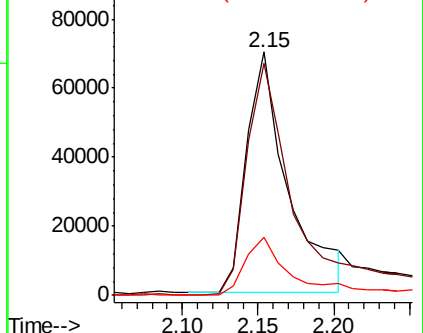
93 24.0 17.8 26.6



Abundance Ion 94.00 (93.70 to 94.70): VDC

Ion 96.00 (95.70 to 96.70): VDC

Ion 93.00 (92.70 to 93.70): VDC



#6

Chloroethane

Concen: 50.492 ug/l

RT: 2.27 min Scan# 86

Delta R.T. 0.01 min

Lab File: VD063168.D

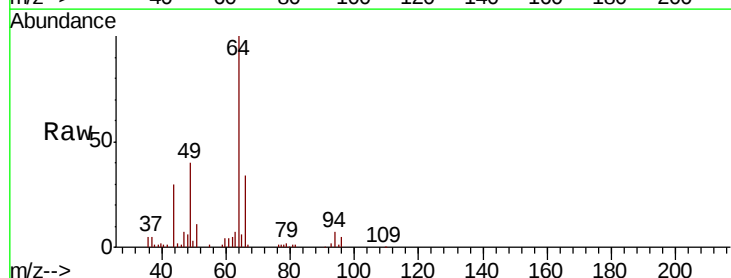
Acq: 22 Jul 2019 10:53

Tgt Ion: 64 Resp: 186391

Ion Ratio Lower Upper

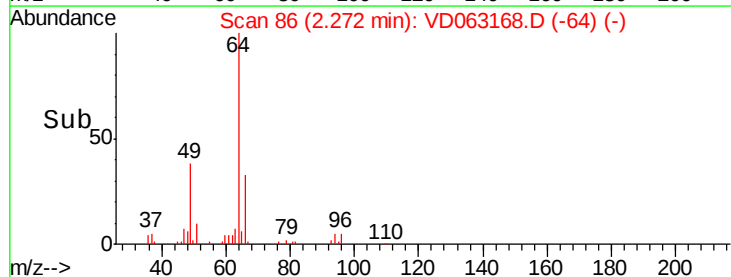
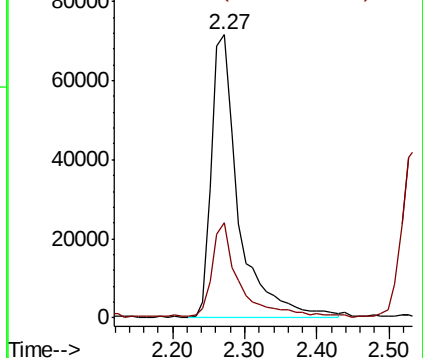
64 100

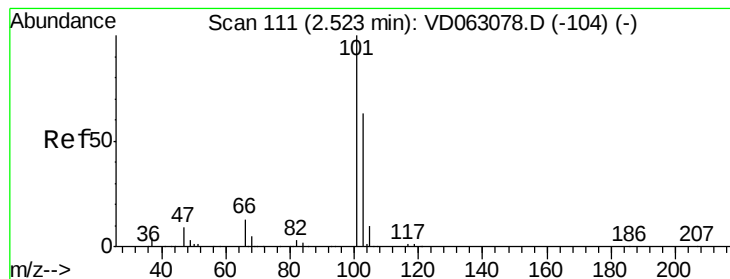
66 33.8 22.5 33.7#



Abundance Ion 63.95 (63.65 to 64.65): VDC

Ion 65.90 (65.60 to 66.60): VDC



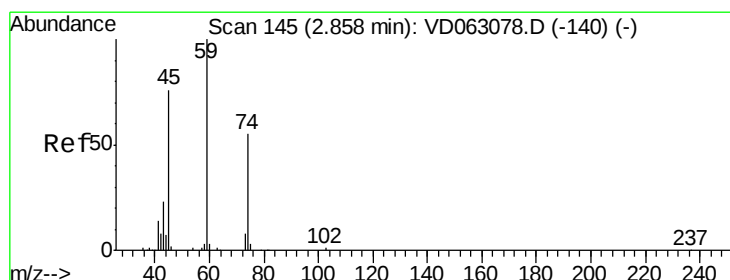
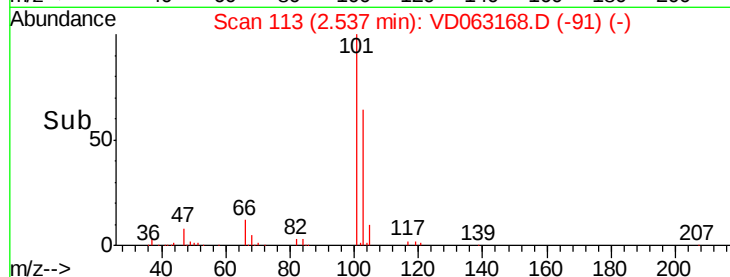
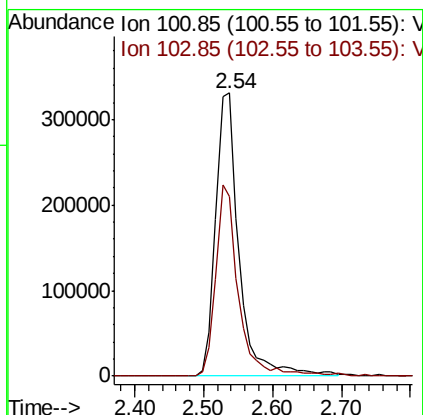
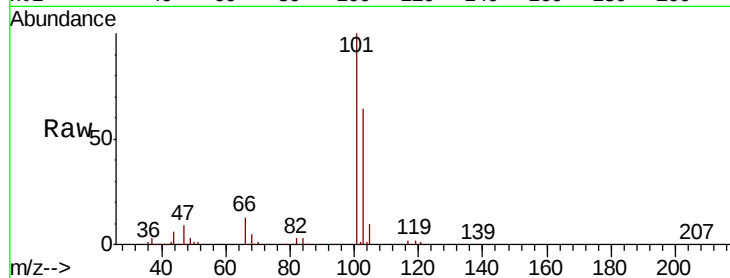


#7

Trichlorofluoromethane
Concen: 48.610 ug/l
RT: 2.54 min Scan# 113
Delta R.T. 0.01 min
Lab File: VD063168.D
Acq: 22 Jul 2019 10:53

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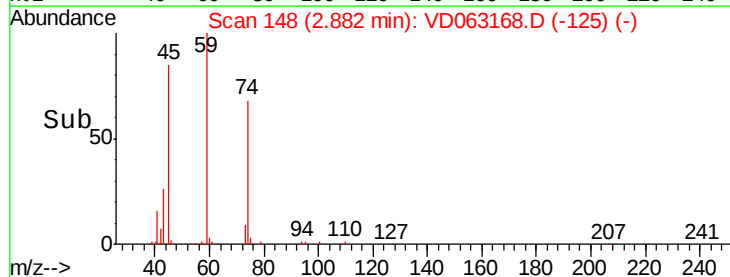
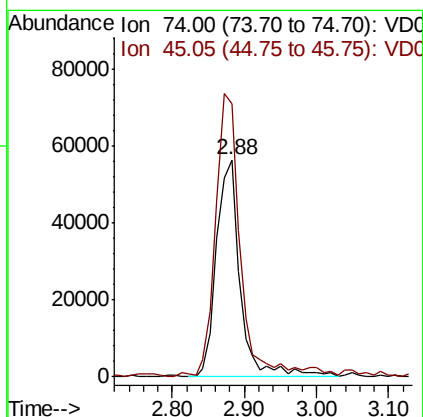
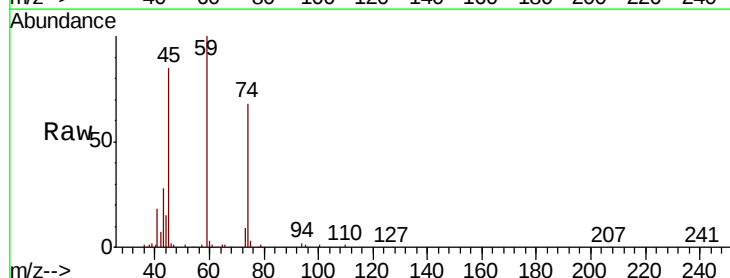
Tot Ion:101 Resp: 782007
Ion Ratio Lower Upper
101 100
103 63.6 50.6 76.0

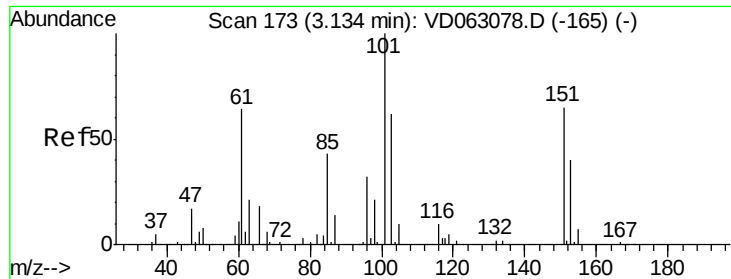


#8

Diethyl Ether
Concen: 56.764 ug/l
RT: 2.88 min Scan# 148
Delta R.T. 0.02 min
Lab File: VD063168.D
Acq: 22 Jul 2019 10:53

Tgt Ion: 74 Resp: 128455
Ion Ratio Lower Upper
74 100
45 125.8 69.5 208.7





#9

1,1,2-Trichlorotrifluoroethane

Concen: 47.920 ug/l

RT: 3.15 min Scan# 175

Delta R.T. 0.01 min

Lab File: VD063168.D

Acq: 22 Jul 2019 10:53

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

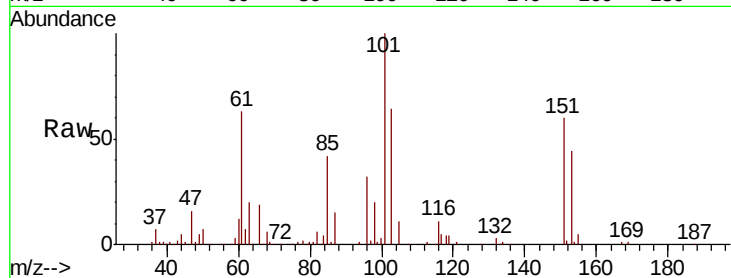
Tot Ion:101 Resp: 444516

Ion Ratio Lower Upper

101 100

85 41.9 34.6 51.8

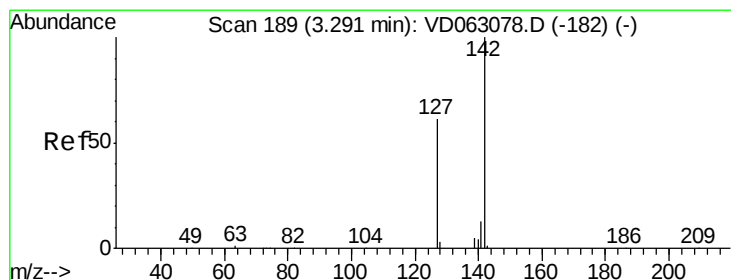
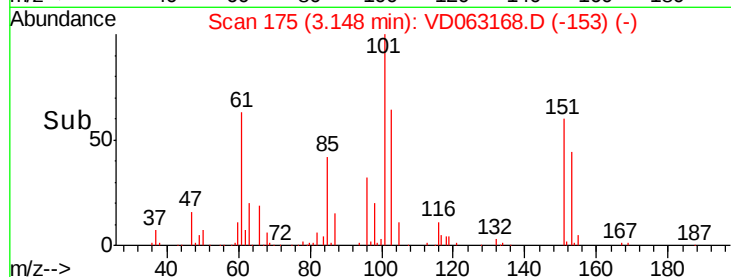
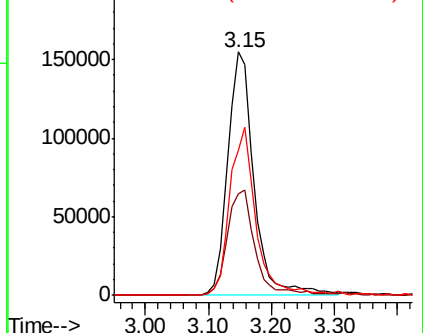
151 59.7 52.4 78.6



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: 50.176 ug/l

RT: 3.31 min Scan# 191

Delta R.T. 0.01 min

Lab File: VD063168.D

Acq: 22 Jul 2019 10:53

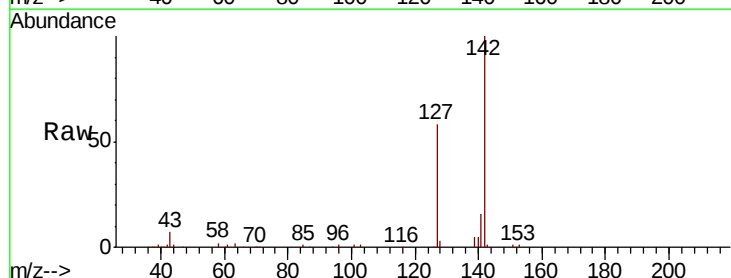
Tgt Ion:142 Resp: 571406

Ion Ratio Lower Upper

142 100

127 58.3 48.6 73.0

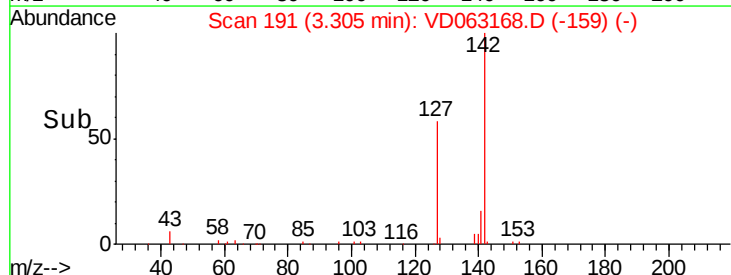
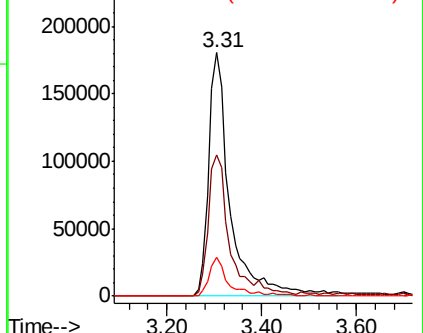
141 15.8 10.6 16.0

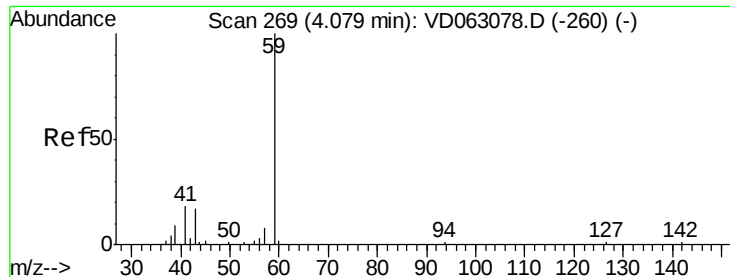


Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V



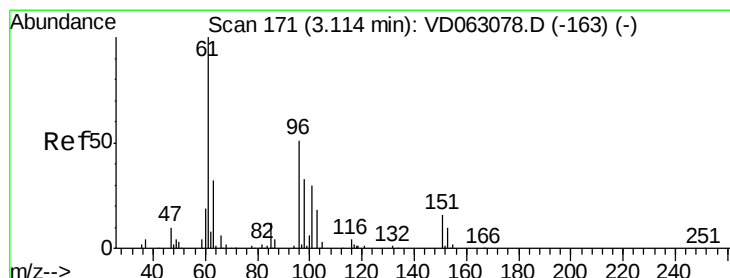
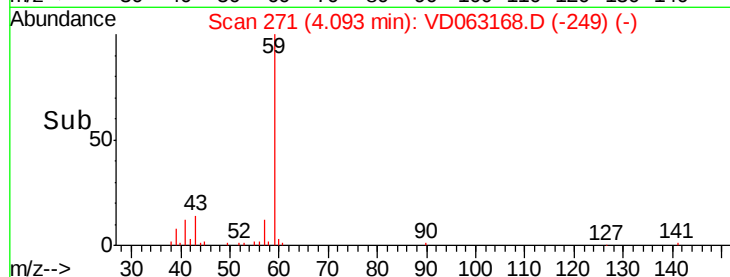
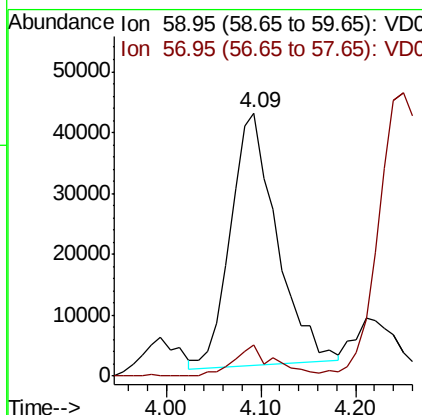
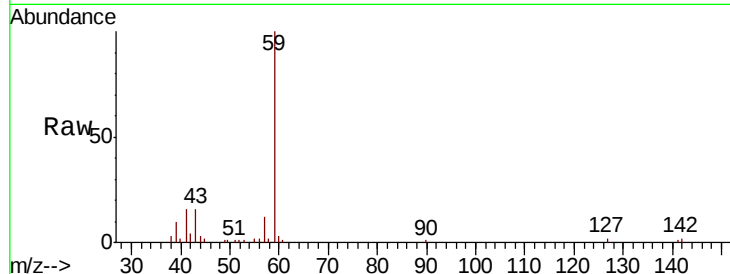


#11

Tert butyl alcohol
 Concen: 262.321 ug/l
 RT: 4.09 min Scan# 271
 Delta R.T. 0.01 min
 Lab File: VD063168.D
 Acq: 22 Jul 2019 10:53

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

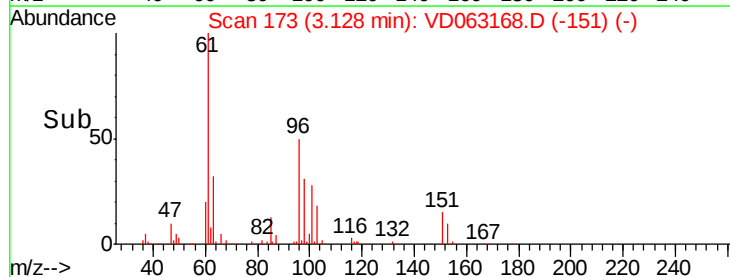
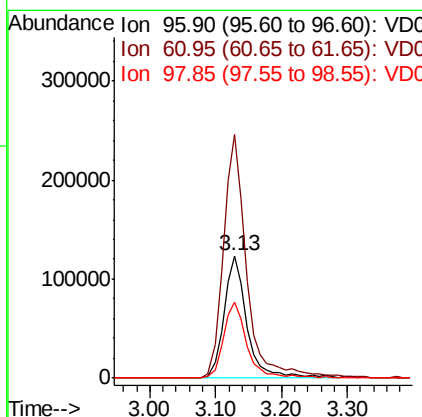
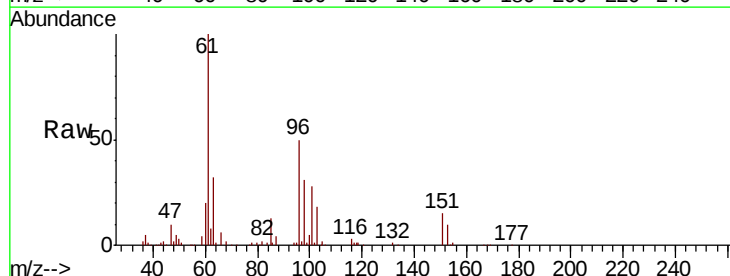
Tot Ion: 59 Resp: 140418
 Ion Ratio Lower Upper
 59 100
 57 11.7 6.4 9.6#

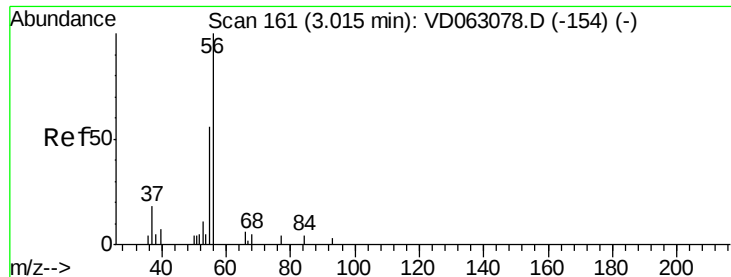


#12

1,1-Dichloroethene
 Concen: 45.965 ug/l
 RT: 3.13 min Scan# 173
 Delta R.T. 0.01 min
 Lab File: VD063168.D
 Acq: 22 Jul 2019 10:53

Tgt Ion: 96 Resp: 302776
 Ion Ratio Lower Upper
 96 100
 61 198.9 155.5 233.3
 98 62.1 51.5 77.3





#13

Acrolein

Concen: 165.184 ug/l

RT: 3.04 min Scan# 164

Delta R.T. 0.02 min

Lab File: VD063168.D

Acq: 22 Jul 2019 10:53

Instrument :

MSVOA_D

ClientSampleId :

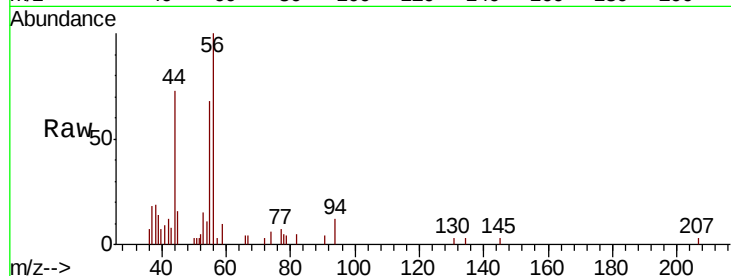
VSTDCCC050

Tot Ion: 56 Resp: 26687

Ion Ratio Lower Upper

56 100

55 67.6 53.0 79.4



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC

3.04

12000

10000

8000

6000

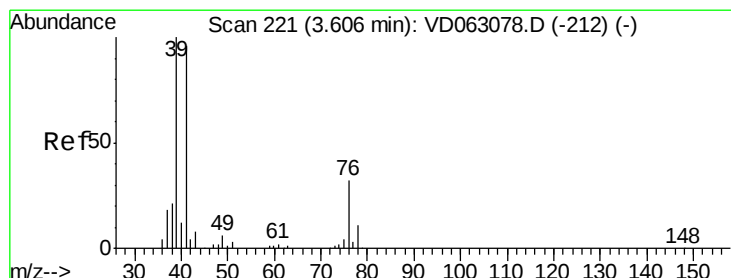
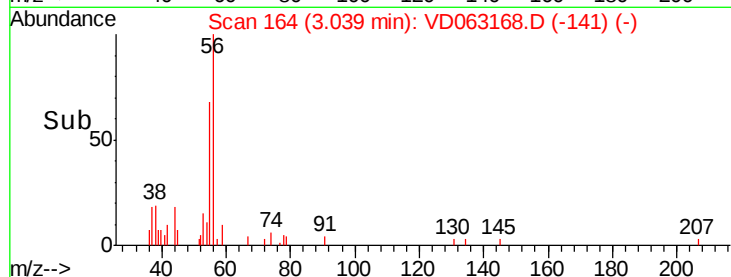
4000

2000

0

Time-->

2.90 3.00 3.10 3.20



#14

Allyl chloride

Concen: 49.729 ug/l

RT: 3.62 min Scan# 223

Delta R.T. 0.01 min

Lab File: VD063168.D

Acq: 22 Jul 2019 10:53

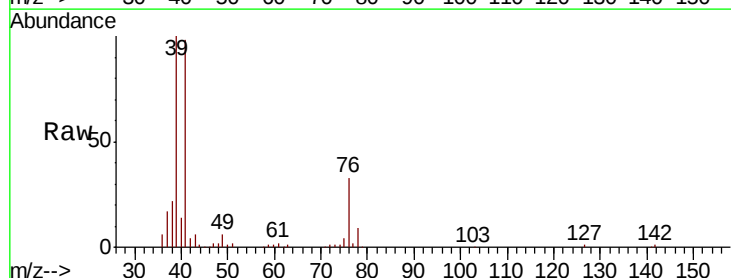
Tgt Ion: 41 Resp: 514827

Ion Ratio Lower Upper

41 100

39 102.2 83.5 125.3

76 33.5 27.8 41.8



Abundance Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 75.95 (75.65 to 76.65): VDC

250000

200000

150000

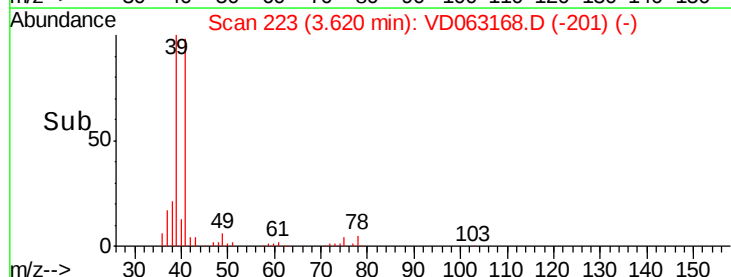
100000

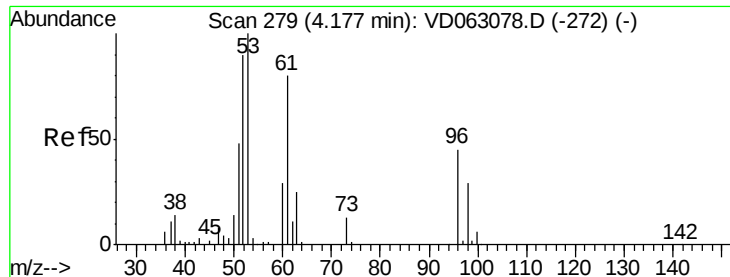
50000

0

Time-->

3.50 3.60 3.70 3.80





#15

Acrylonitrile

Concen: 275.274 ug/l

RT: 4.21 min Scan# 283

Delta R.T. 0.03 min

Lab File: VD063168.D

Acq: 22 Jul 2019 10:53

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

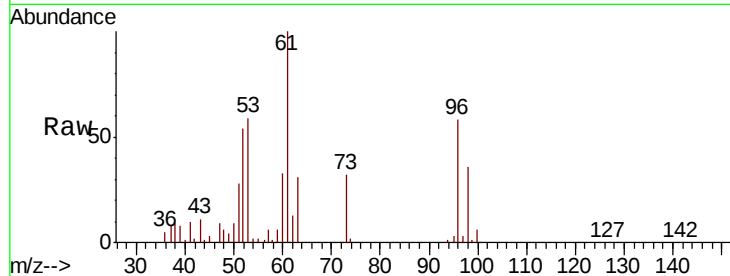
Tot Ion: 53 Resp: 325722

Ion Ratio Lower Upper

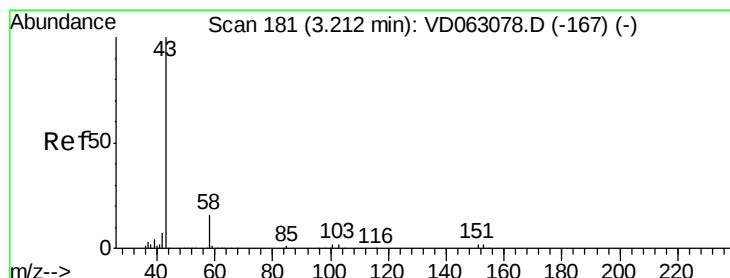
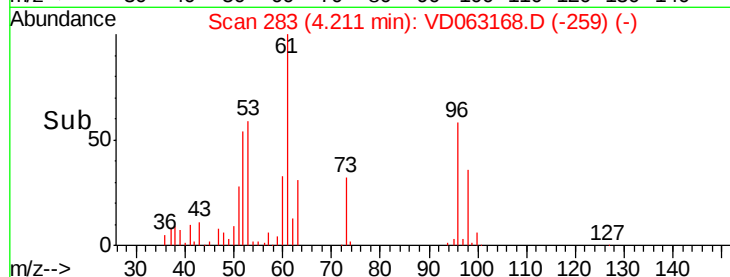
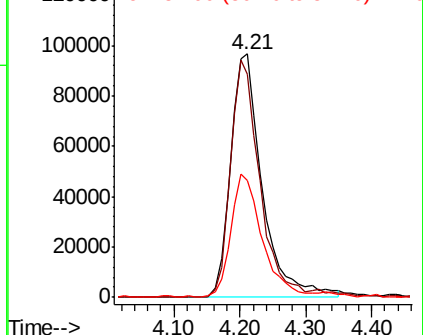
53 100

52 91.9 72.3 108.5

51 48.0 38.0 57.0



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



#16

Acetone

Concen: 286.316 ug/l

RT: 3.23 min Scan# 183

Delta R.T. 0.01 min

Lab File: VD063168.D

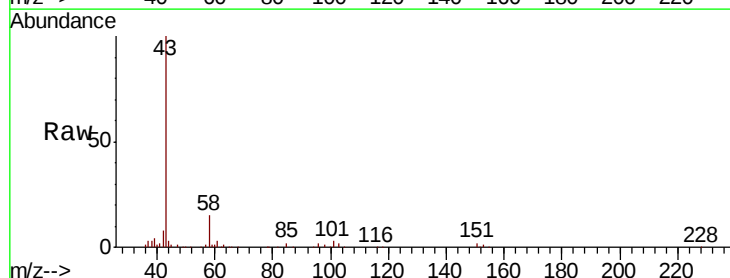
Acq: 22 Jul 2019 10:53

Tgt Ion: 43 Resp: 641423

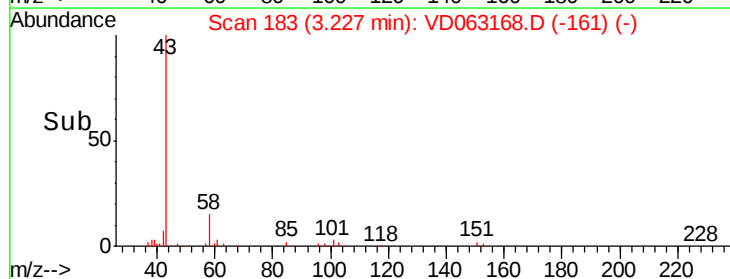
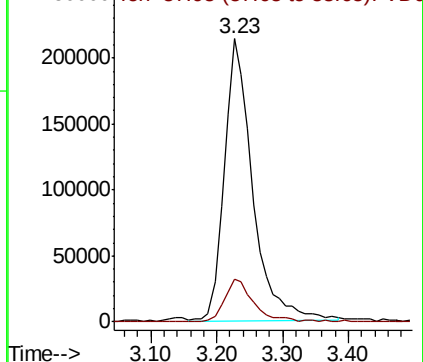
Ion Ratio Lower Upper

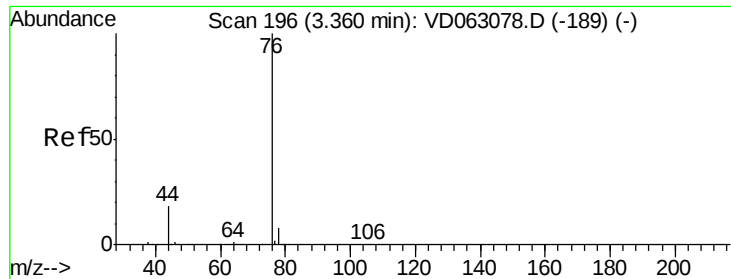
43 100

58 15.0 13.0 19.4



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

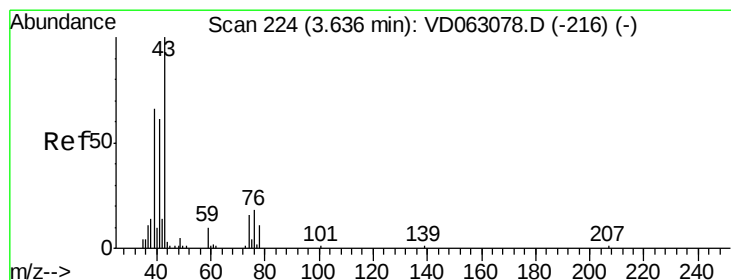
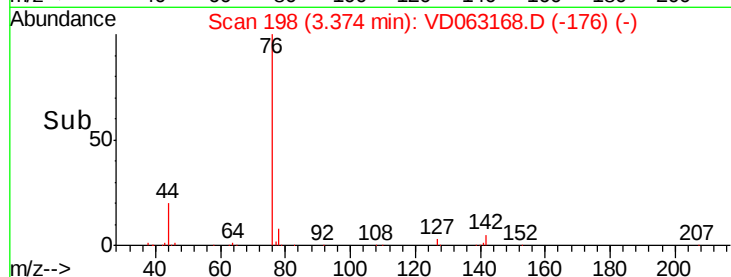
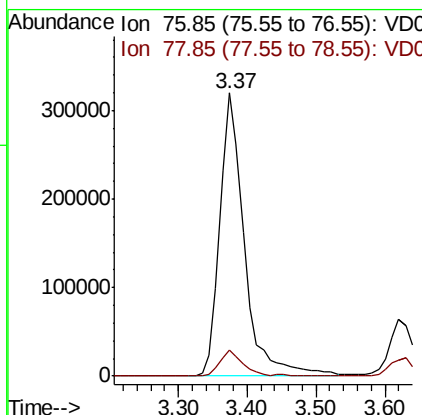
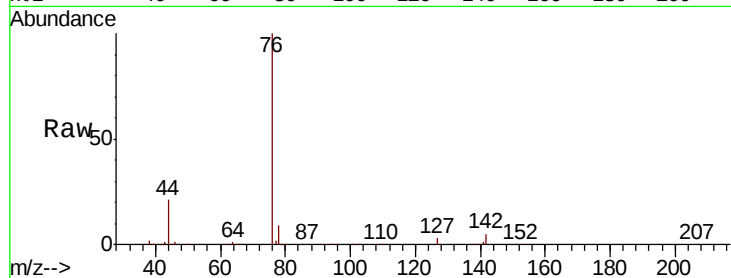




#17
Carbon Disulfide
Concen: 42.135 ug/l
RT: 3.37 min Scan# 198
Delta R.T. 0.01 min
Lab File: VD063168.D
Acq: 22 Jul 2019 10:53

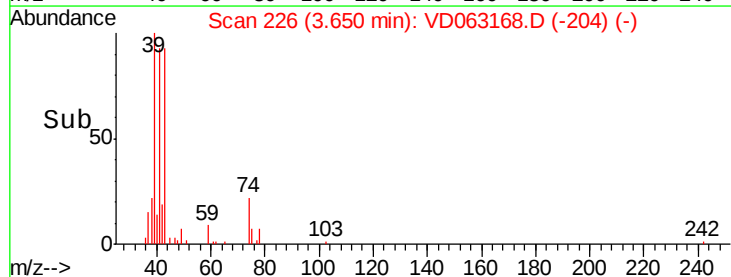
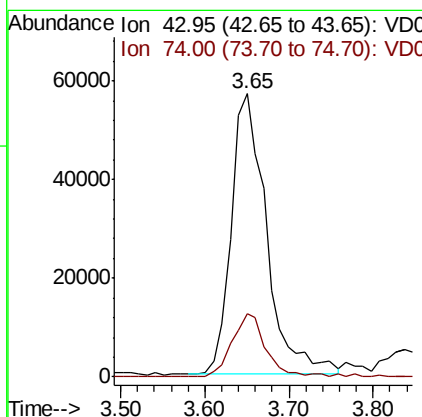
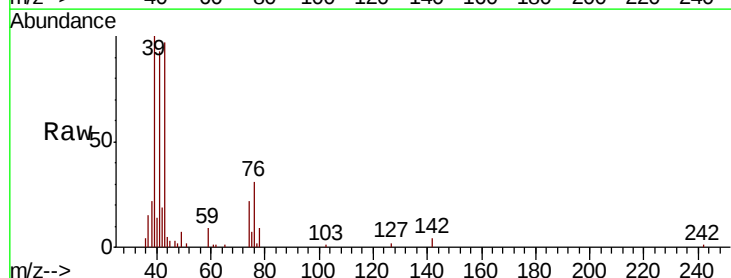
Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

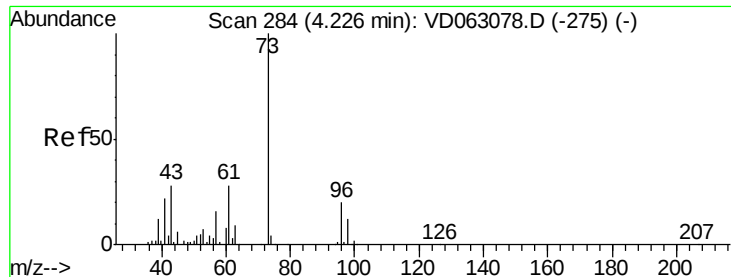
Tot Ion: 76 Resp: 794440
Ion Ratio Lower Upper
76 100
78 9.2 6.7 10.1



#18
Methyl Acetate
Concen: 55.635 ug/l
RT: 3.65 min Scan# 226
Delta R.T. 0.01 min
Lab File: VD063168.D
Acq: 22 Jul 2019 10:53

Tgt Ion: 43 Resp: 166559
Ion Ratio Lower Upper
43 100
74 22.3 12.5 18.7#

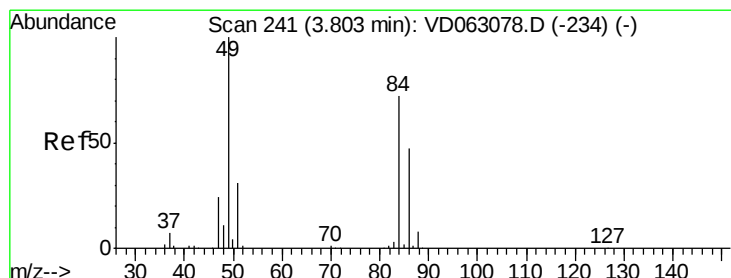
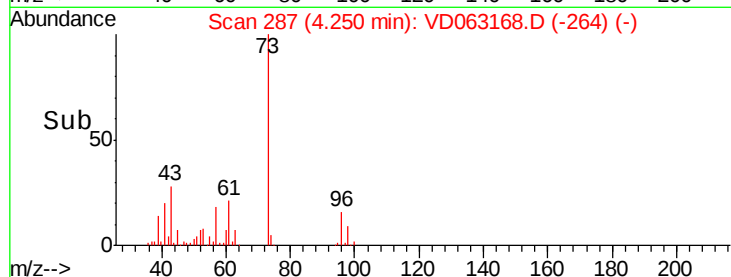
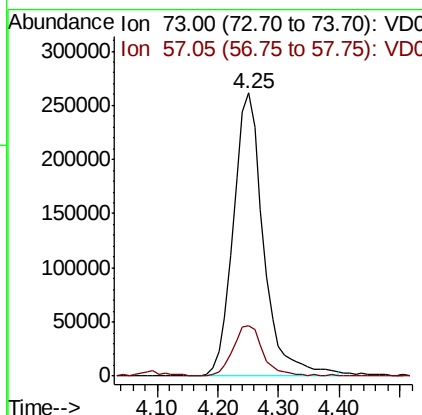
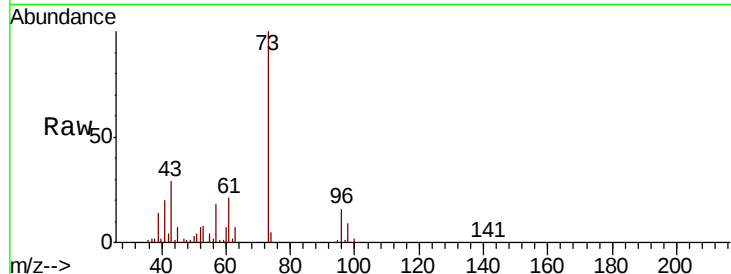




#19
Methyl tert-butyl Ether
Concen: 54.584 ug/l
RT: 4.25 min Scan# 287
Delta R.T. 0.02 min
Lab File: VD063168.D
Acq: 22 Jul 2019 10:53

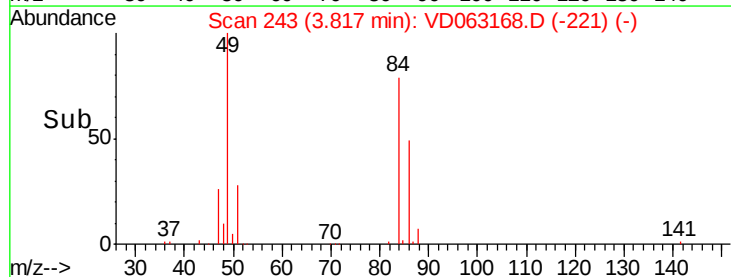
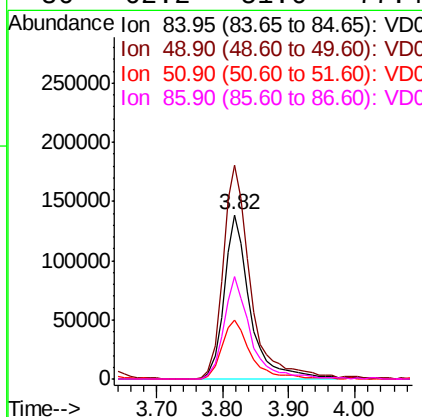
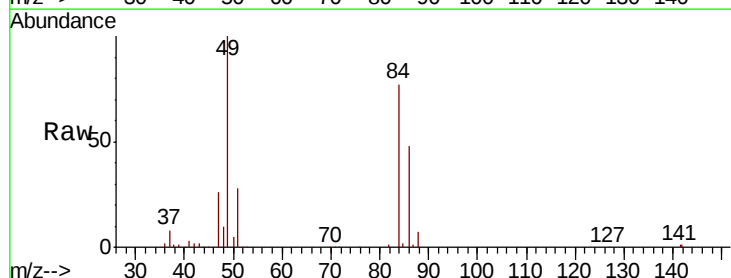
Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

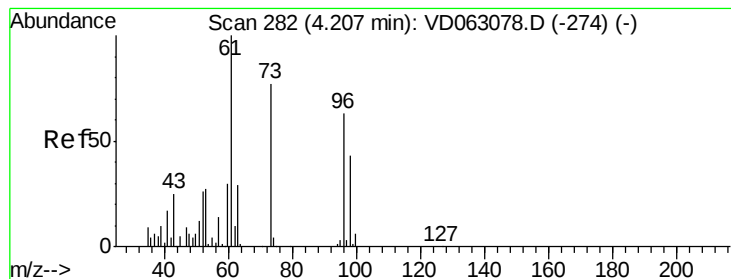
Tot Ion: 73 Resp: 907627
Ion Ratio Lower Upper
73 100
57 17.8 13.1 19.7



#20
Methylene Chloride
Concen: 45.230 ug/l
RT: 3.82 min Scan# 243
Delta R.T. 0.01 min
Lab File: VD063168.D
Acq: 22 Jul 2019 10:53

Tgt Ion: 84 Resp: 382807
Ion Ratio Lower Upper
84 100
49 130.2 110.5 165.7
51 35.9 34.6 51.8
86 62.2 51.6 77.4





#21

trans-1,2-Dichloroethene

Concen: 49.560 ug/l

RT: 4.22 min Scan# 284

Delta R.T. 0.01 min

Lab File: VD063168.D

Acq: 22 Jul 2019 10:53

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

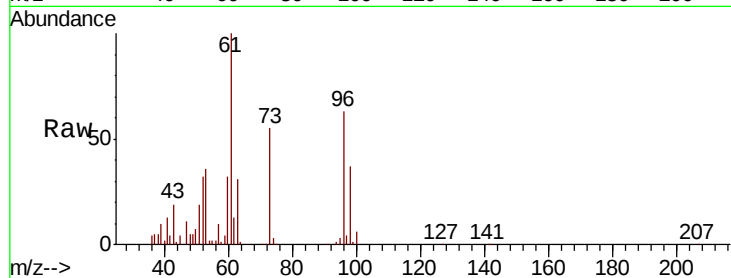
Tot Ion: 96 Resp: 362406

Ion Ratio Lower Upper

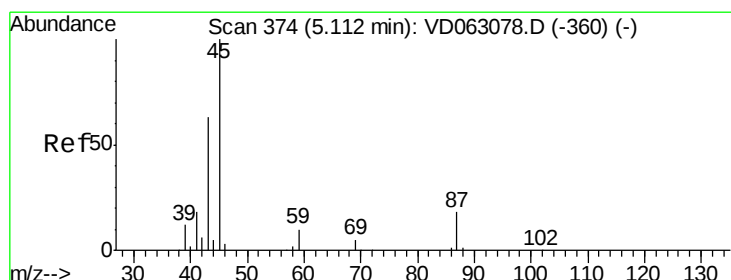
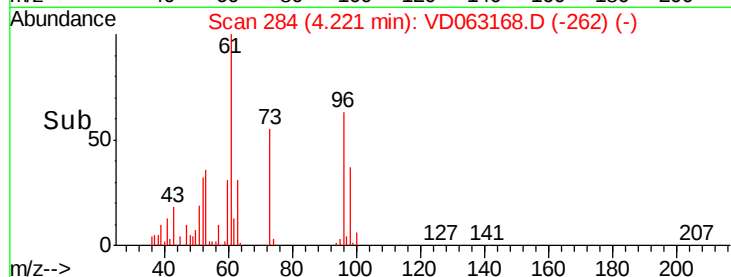
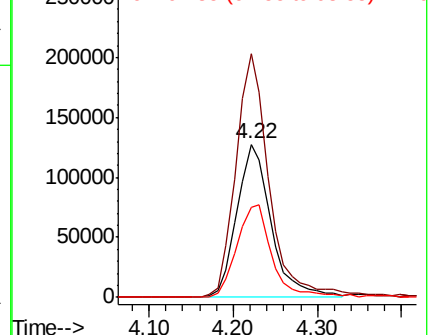
96 100

61 158.8 128.0 192.0

98 59.0 55.2 82.8



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



#22

Diisopropyl ether

Concen: 53.472 ug/l

RT: 5.14 min Scan# 377

Delta R.T. 0.02 min

Lab File: VD063168.D

Acq: 22 Jul 2019 10:53

Tgt Ion: 45 Resp: 1203590

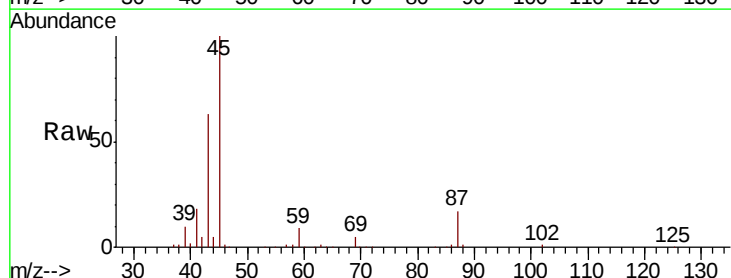
Ion Ratio Lower Upper

45 100

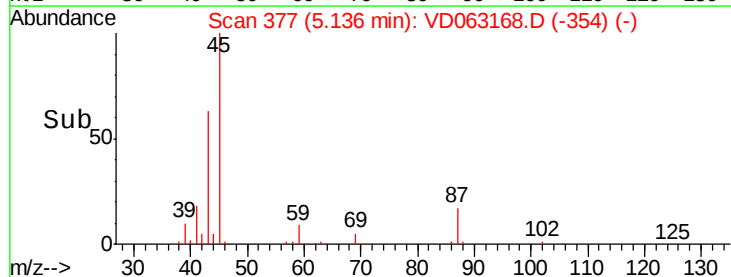
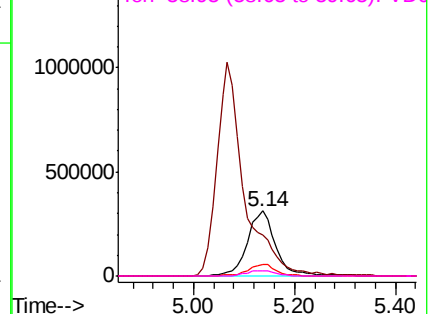
43 62.9 50.5 75.7

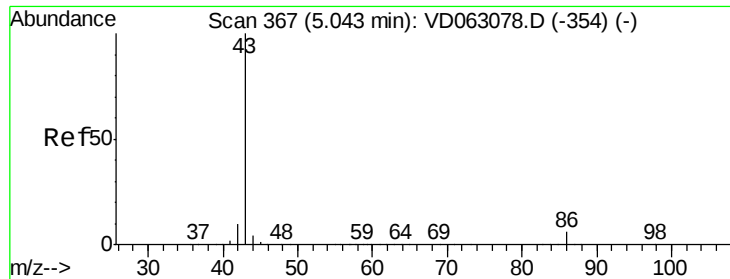
87 17.5 15.1 22.7

59 8.6 7.6 11.4



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

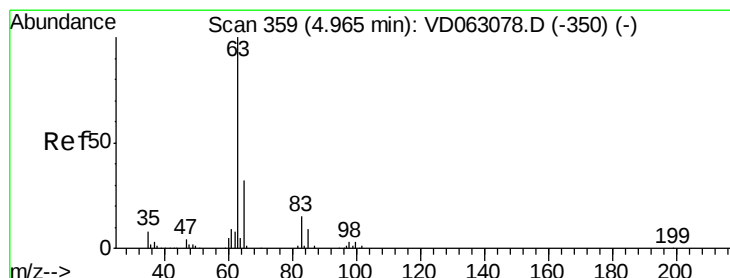
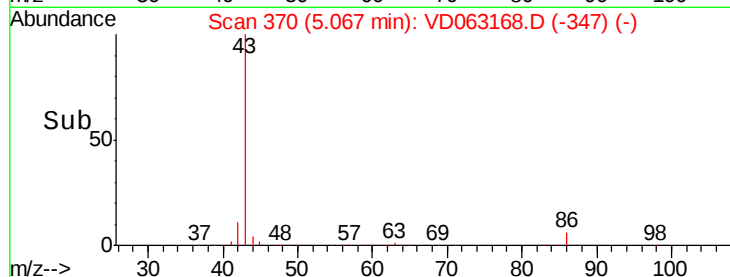
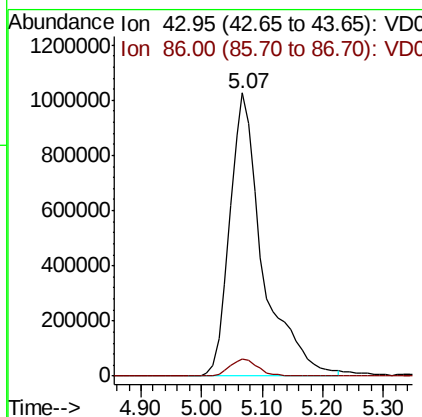
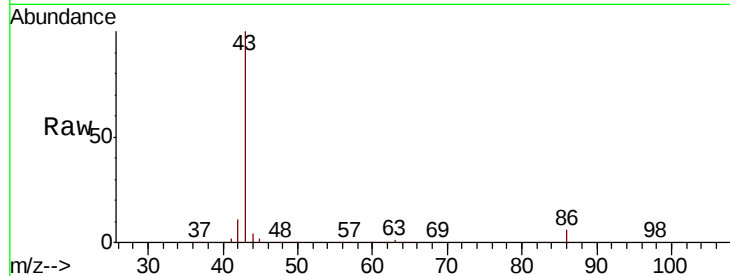




#23
 Vinyl Acetate
 Concen: 295.210 ug/l
 RT: 5.07 min Scan# 370
 Delta R.T. 0.02 min
 Lab File: VD063168.D
 Acq: 22 Jul 2019 10:53

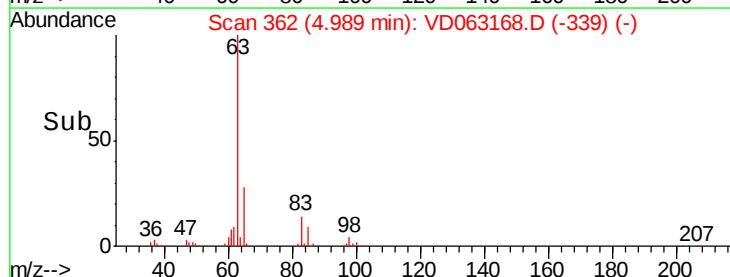
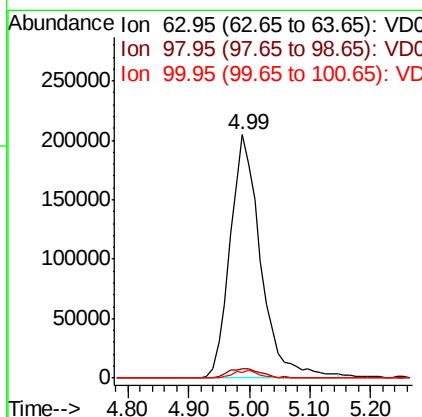
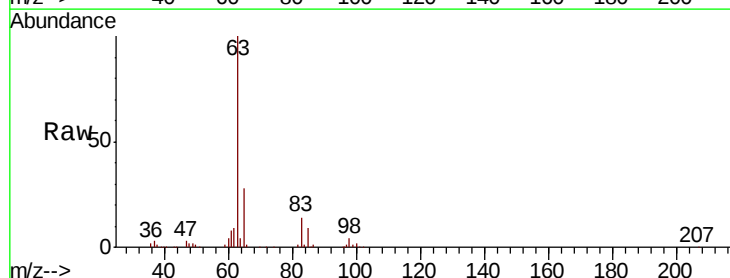
Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

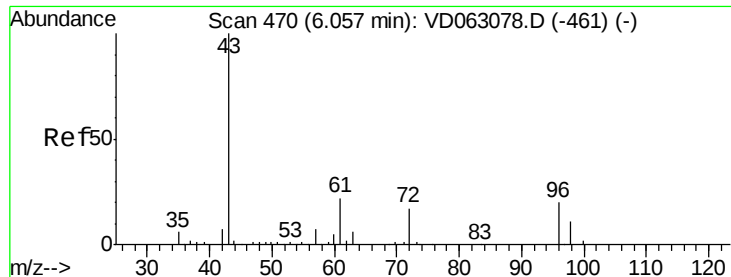
Tot Ion: 43 Resp: 3876669
 Ion Ratio Lower Upper
 43 100
 86 6.3 5.0 7.6



#24
 1,1-Dichloroethane
 Concen: 51.840 ug/l
 RT: 4.99 min Scan# 362
 Delta R.T. 0.02 min
 Lab File: VD063168.D
 Acq: 22 Jul 2019 10:53

Tgt Ion: 63 Resp: 718762
 Ion Ratio Lower Upper
 63 100
 98 3.6 1.7 5.1
 100 2.1 1.5 4.5





#25

2-Butanone

Concen: 291.337 ug/l

RT: 6.08 min Scan# 473

Delta R.T. 0.02 min

Lab File: VD063168.D

Acq: 22 Jul 2019 10:53

Instrument :

MSVOA_D

ClientSampleId :

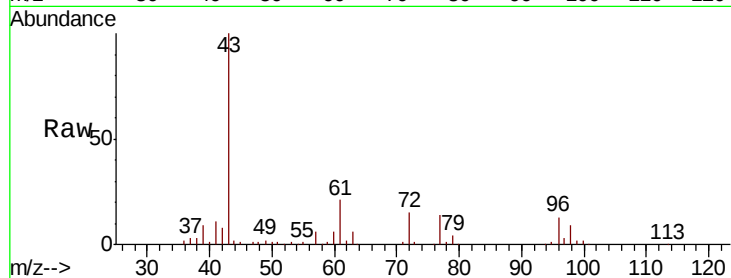
VSTDCCC050

Tot Ion: 43 Resp: 623248

Ion Ratio Lower Upper

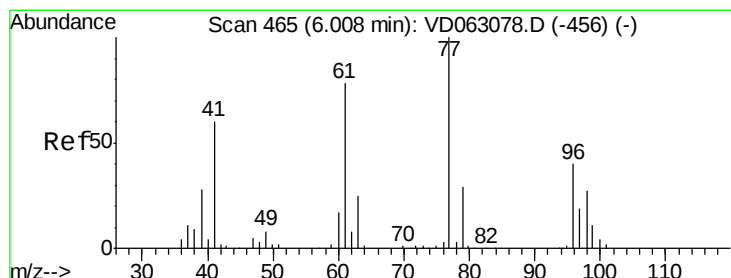
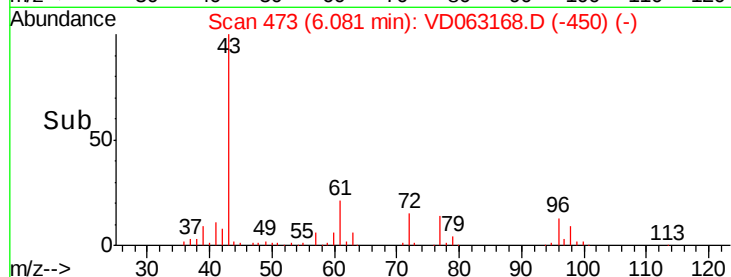
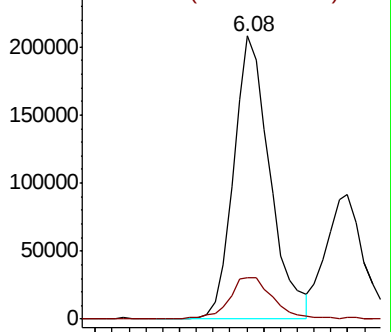
43 100

72 14.8 13.4 20.0



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 50.469 ug/l

RT: 6.03 min Scan# 468

Delta R.T. 0.02 min

Lab File: VD063168.D

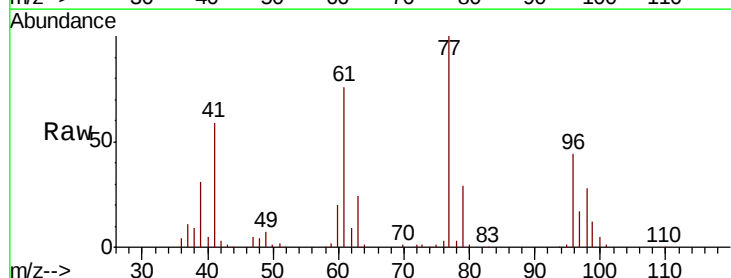
Acq: 22 Jul 2019 10:53

Tgt Ion: 77 Resp: 774439

Ion Ratio Lower Upper

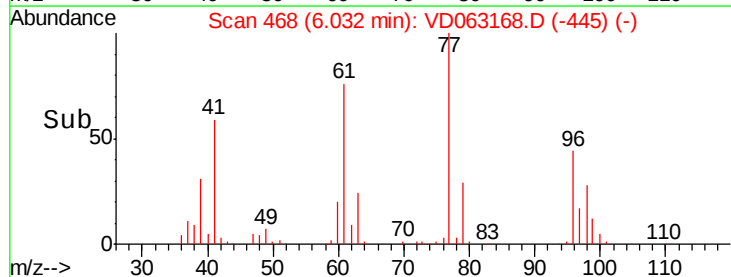
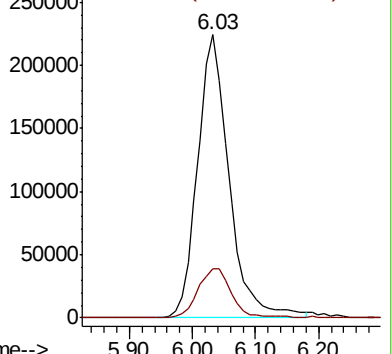
77 100

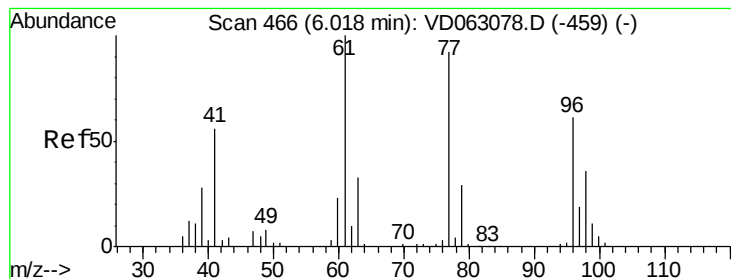
97 17.4 9.3 27.9



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC



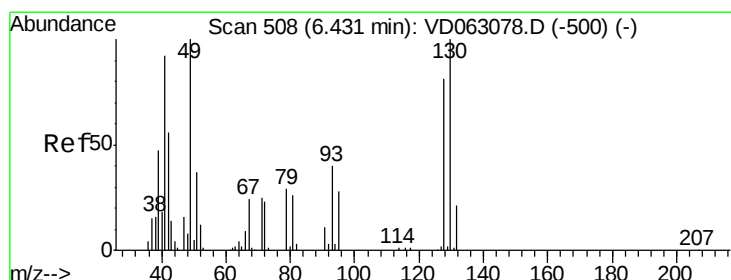
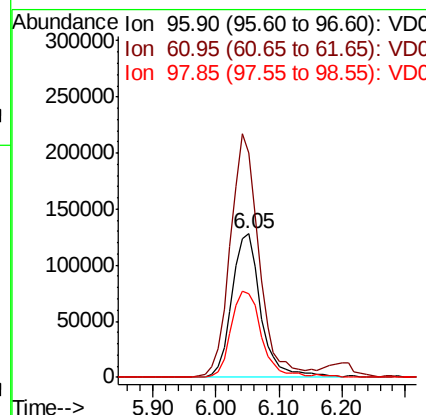
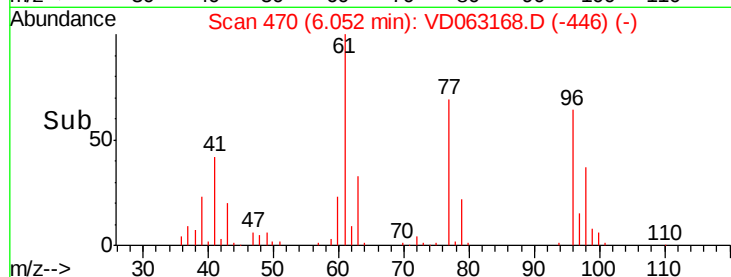
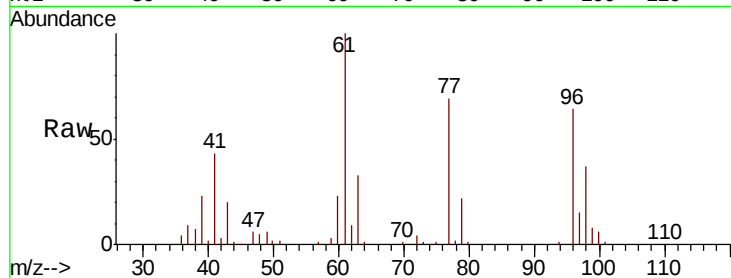


#27

cis-1,2-Dichloroethene
 Concen: 48.806 ug/l
 RT: 6.05 min Scan# 470
 Delta R.T. 0.03 min
 Lab File: VD063168.D
 Acq: 22 Jul 2019 10:53

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

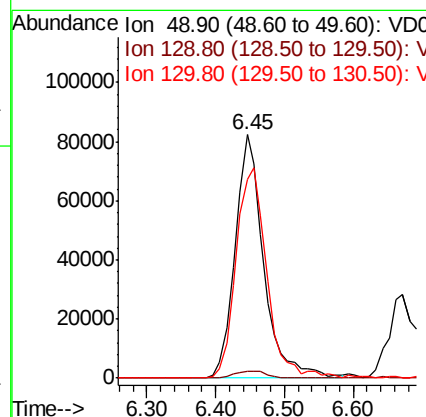
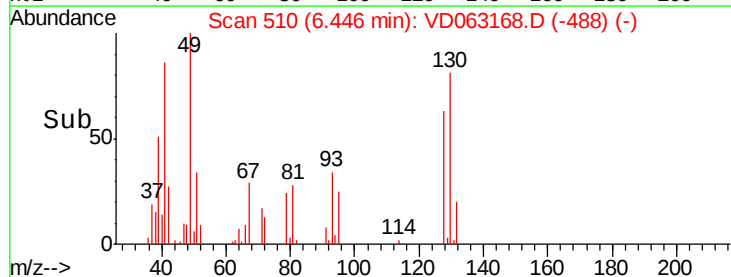
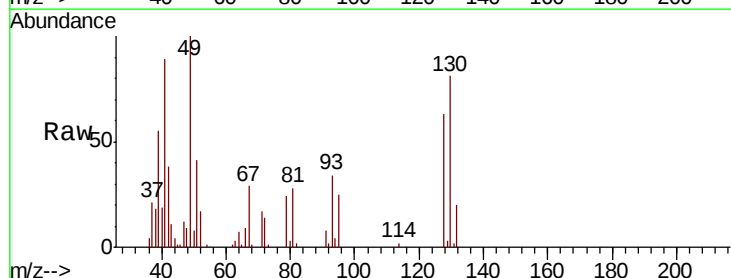
Tot Ion: 96 Resp: 405985
 Ion Ratio Lower Upper
 96 100
 61 156.4 0.0 329.6
 98 58.6 0.0 118.4

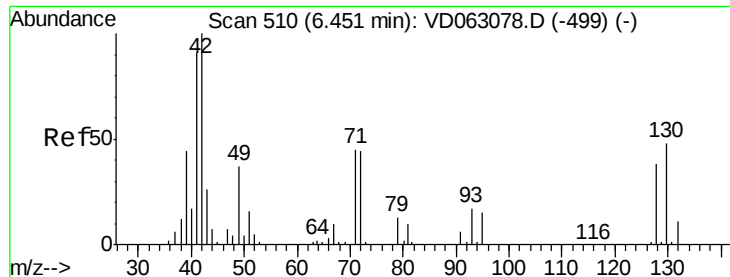


#28

Bromochloromethane
 Concen: 47.075 ug/l
 RT: 6.45 min Scan# 510
 Delta R.T. 0.01 min
 Lab File: VD063168.D
 Acq: 22 Jul 2019 10:53

Tgt Ion: 49 Resp: 236797
 Ion Ratio Lower Upper
 49 100
 129 2.6 0.0 3.6
 130 81.4 80.3 120.5





#29

Tetrahydrofuran

Concen: 279.881 ug/l

RT: 6.48 min Scan# 513

Delta R.T. 0.02 min

Lab File: VD063168.D

Acq: 22 Jul 2019 10:53

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

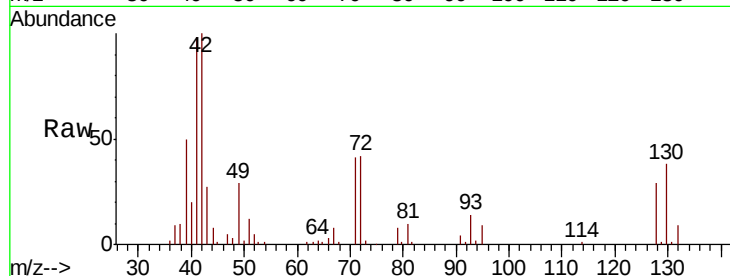
Tot Ion: 42 Resp: 271414

Ion Ratio Lower Upper

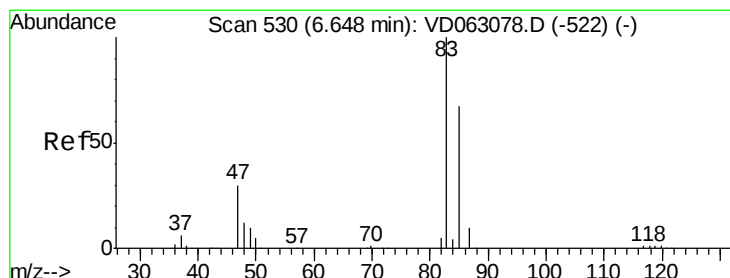
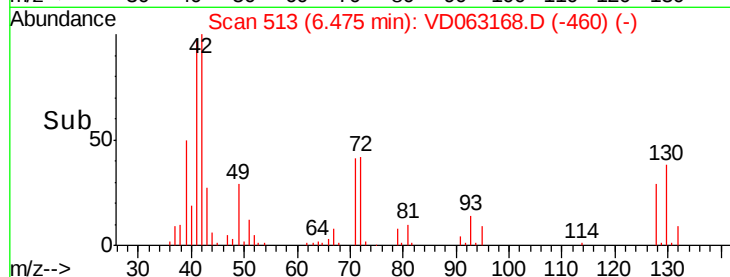
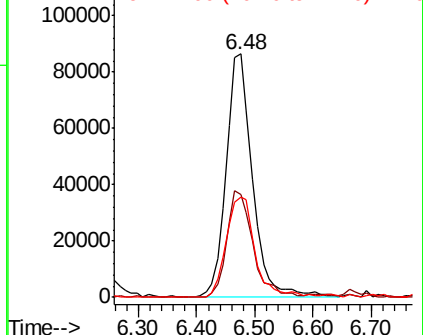
42 100

72 43.3 33.7 50.5

71 45.1 34.2 51.2



Abundance Ion 42.00 (41.70 to 42.70): VDC
Ion 72.00 (71.70 to 72.70): VDC
Ion 71.00 (70.70 to 71.70): VDC



#30

Chloroform

Concen: 50.913 ug/l

RT: 6.67 min Scan# 533

Delta R.T. 0.02 min

Lab File: VD063168.D

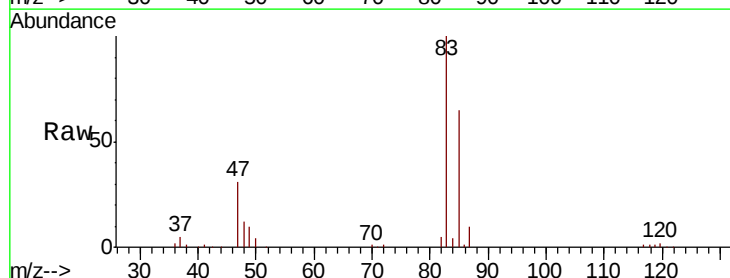
Acq: 22 Jul 2019 10:53

Tgt Ion: 83 Resp: 869370

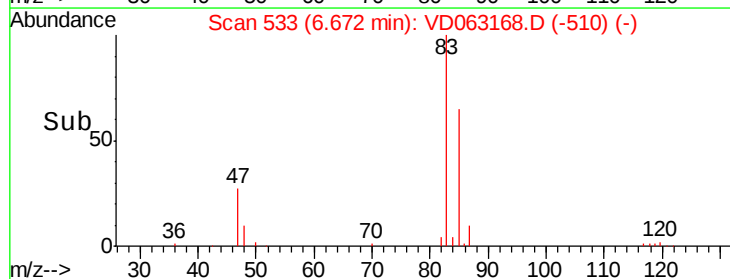
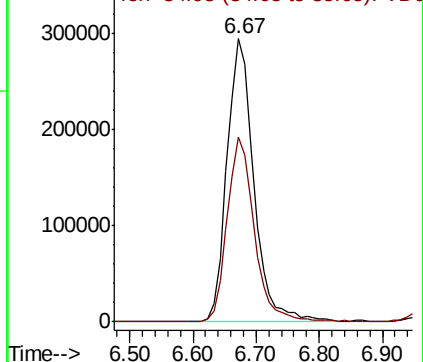
Ion Ratio Lower Upper

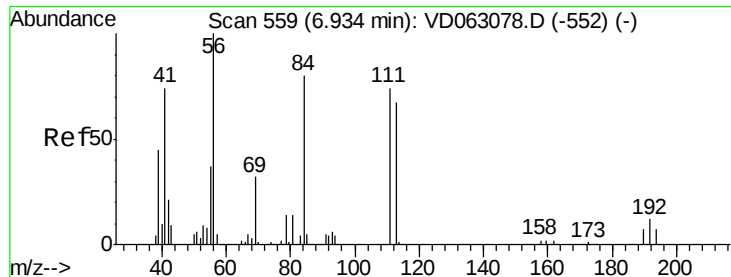
83 100

85 65.2 53.8 80.8



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

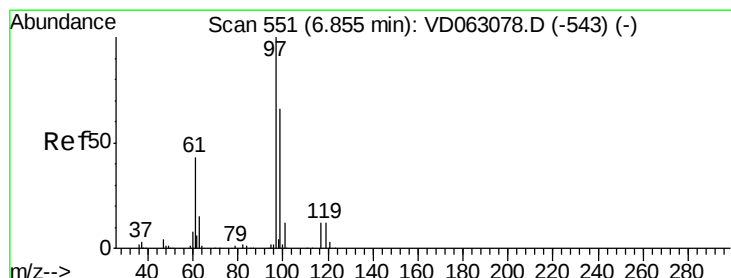
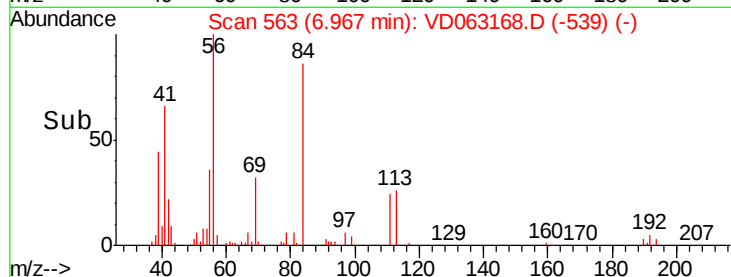
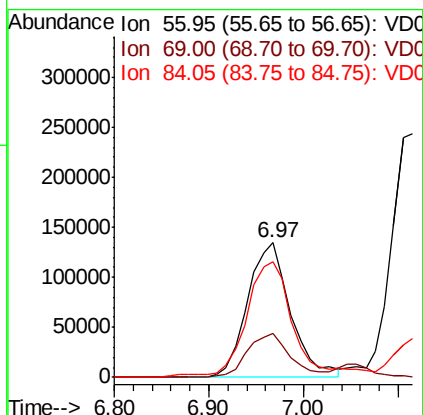
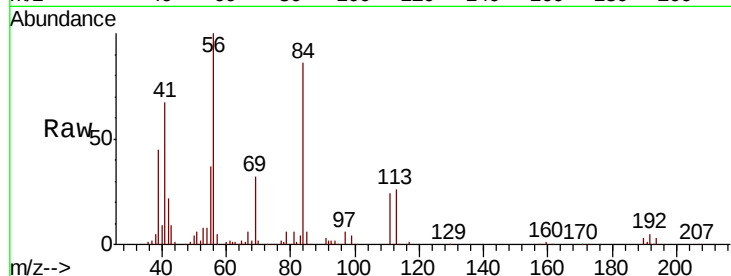




#31
Cyclohexane
Concen: 47.977 ug/l
RT: 6.97 min Scan# 563
Delta R.T. 0.03 min
Lab File: VD063168.D
Acq: 22 Jul 2019 10:53

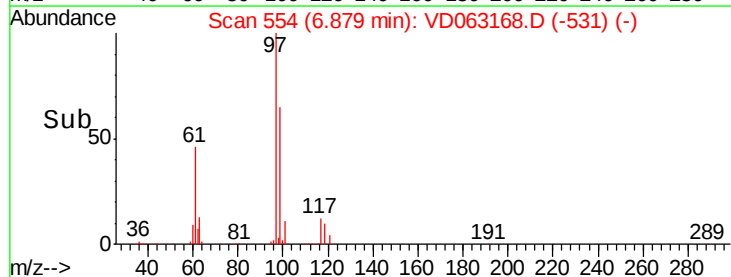
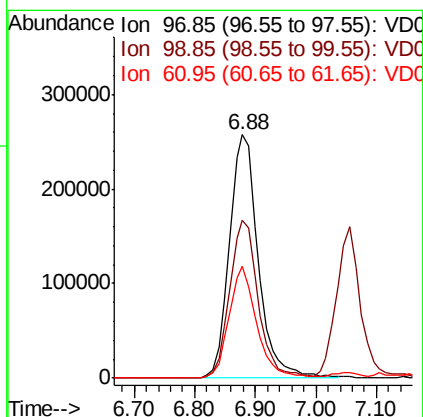
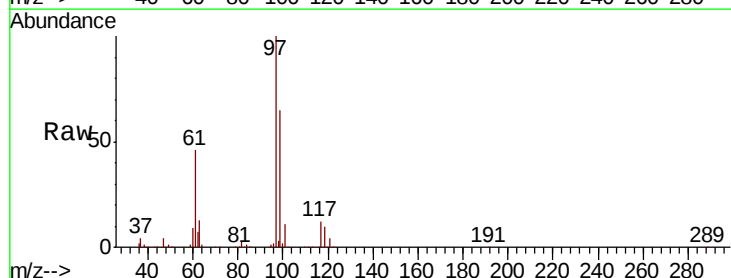
Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

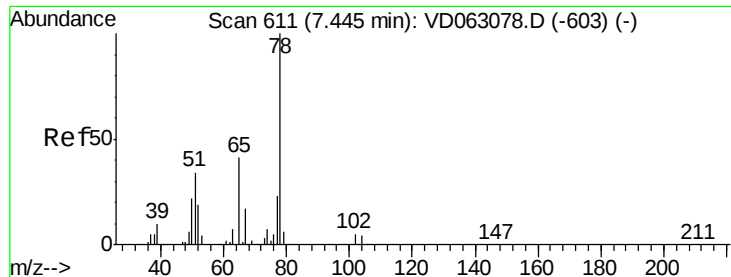
Tot Ion: 56 Resp: 423635
Ion Ratio Lower Upper
56 100
69 32.4 25.3 37.9
84 86.1 64.2 96.4



#32
1,1,1-Trichloroethane
Concen: 50.566 ug/l
RT: 6.88 min Scan# 554
Delta R.T. 0.02 min
Lab File: VD063168.D
Acq: 22 Jul 2019 10:53

Tgt Ion: 97 Resp: 851436
Ion Ratio Lower Upper
97 100
99 64.9 52.9 79.3
61 45.9 34.4 51.6





#33

1,2-Dichloroethane-d4

Concen: 45.591 ug/l

RT: 7.46 min Scan# 613

Delta R.T. 0.01 min

Lab File: VD063168.D

Acq: 22 Jul 2019 10:53

Instrument :

MSVOA_D

ClientSampleId :

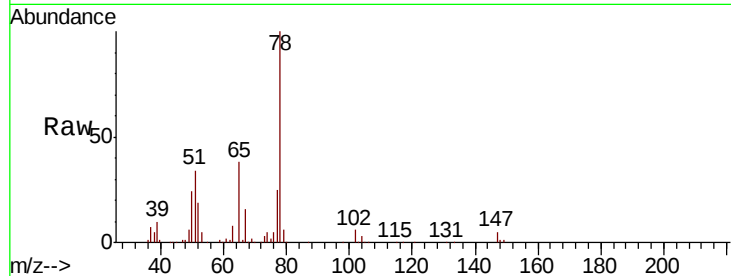
VSTDCCC050

Tot Ion: 65 Resp: 422869

Ion Ratio Lower Upper

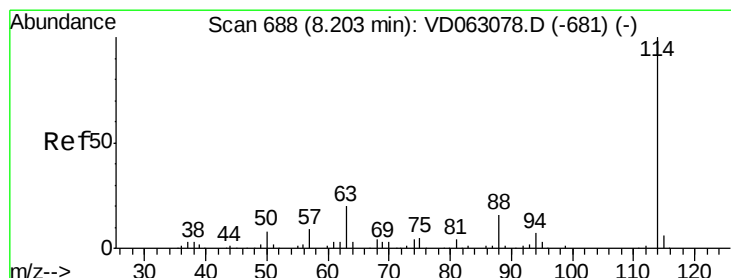
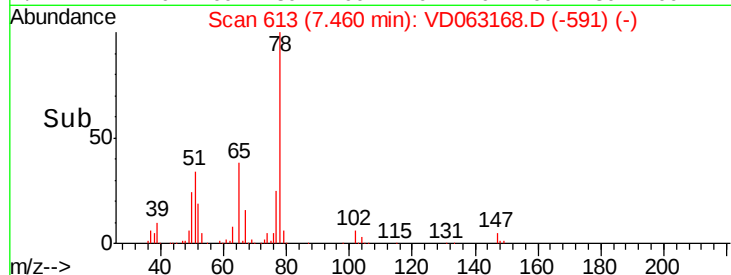
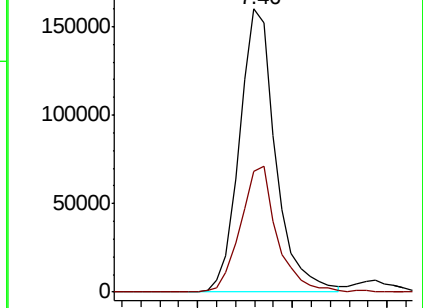
65 100

67 42.9 0.0 86.0



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.23 min Scan# 691

Delta R.T. 0.02 min

Lab File: VD063168.D

Acq: 22 Jul 2019 10:53

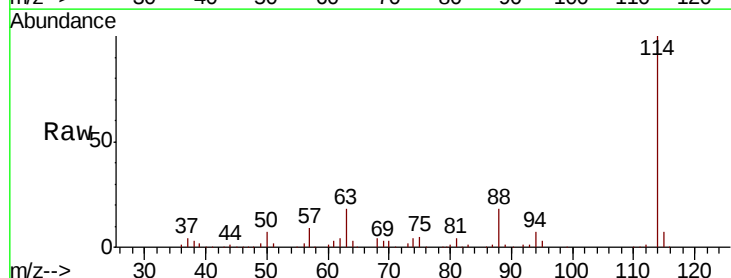
Tgt Ion: 114 Resp: 993684

Ion Ratio Lower Upper

114 100

63 17.6 0.0 40.6

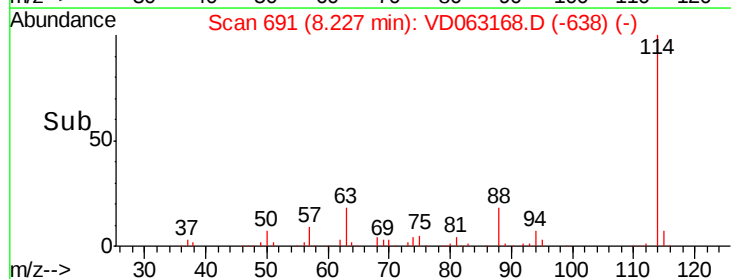
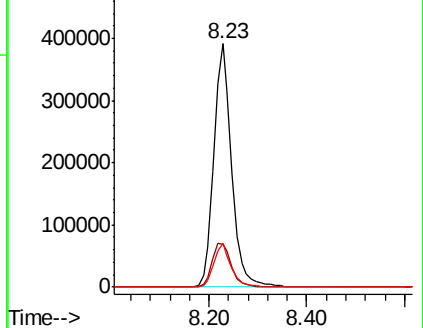
88 18.0 0.0 32.6

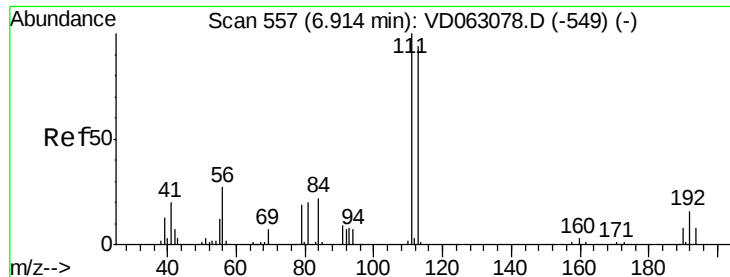


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC





#35

Dibromofluoromethane

Concen: 48.919 ug/l

RT: 6.94 min Scan# 560

Delta R.T. 0.02 min

Lab File: VD063168.D

Acq: 22 Jul 2019 10:53

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

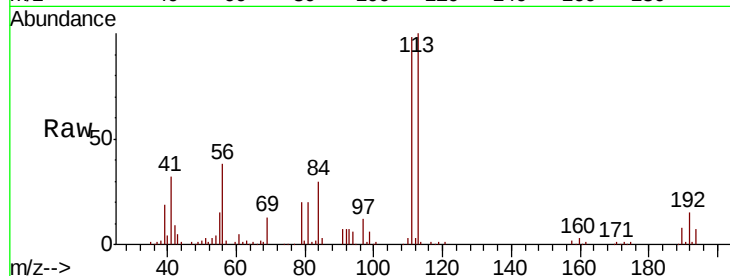
Tot Ion:113 Resp: 484171

Ion Ratio Lower Upper

113 100

111 97.9 84.8 127.2

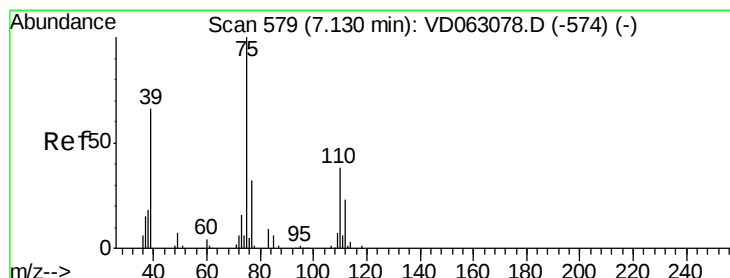
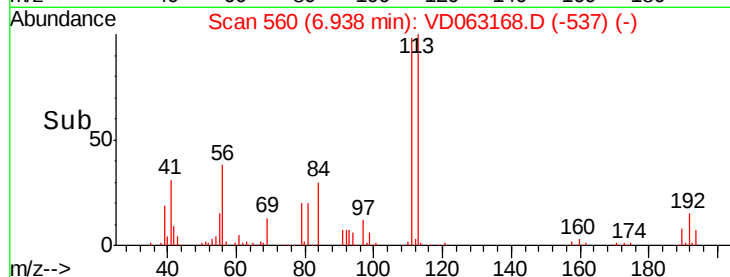
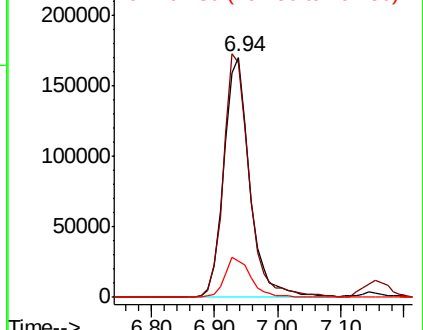
192 15.3 13.4 20.0



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: 48.229 ug/l

RT: 7.15 min Scan# 582

Delta R.T. 0.02 min

Lab File: VD063168.D

Acq: 22 Jul 2019 10:53

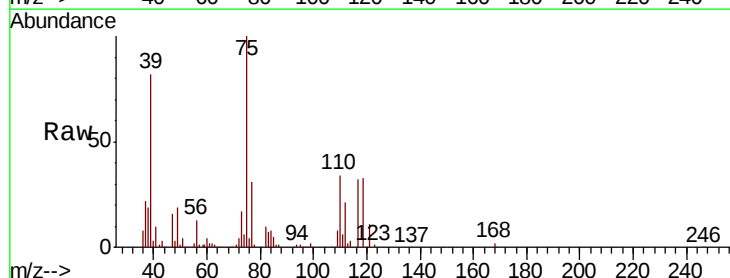
Tgt Ion: 75 Resp: 538995

Ion Ratio Lower Upper

75 100

110 33.7 18.9 56.5

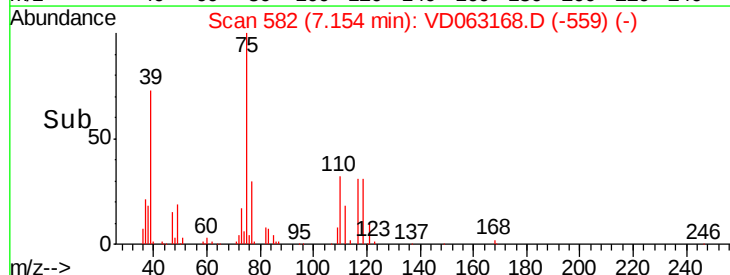
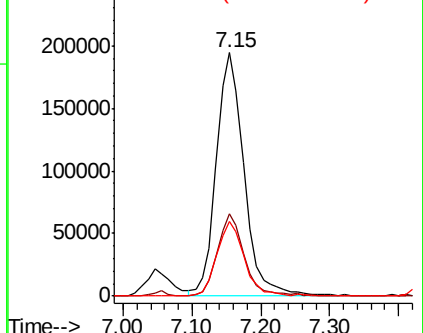
77 30.6 25.2 37.8

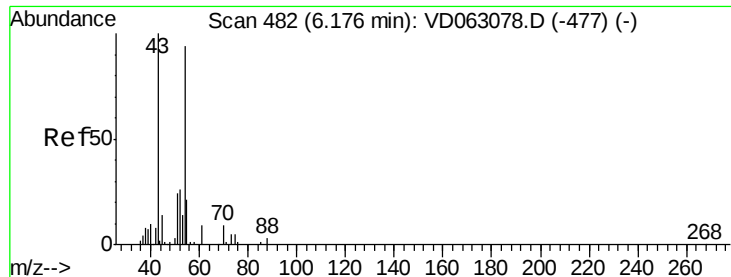


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V

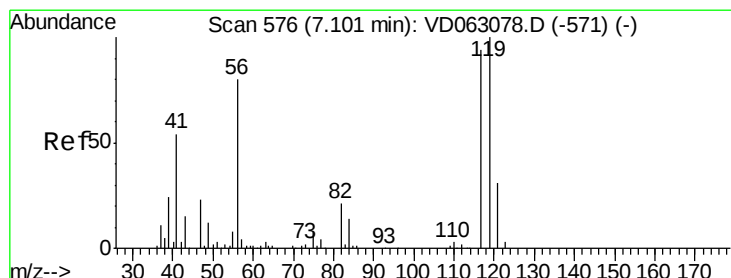
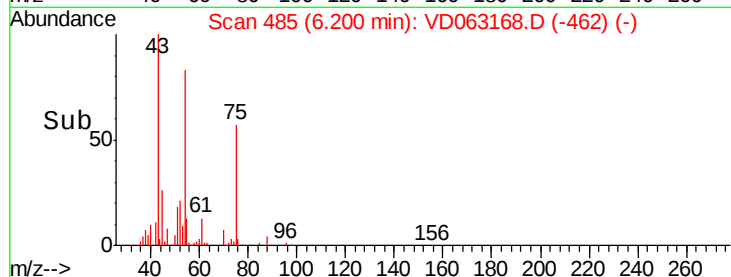
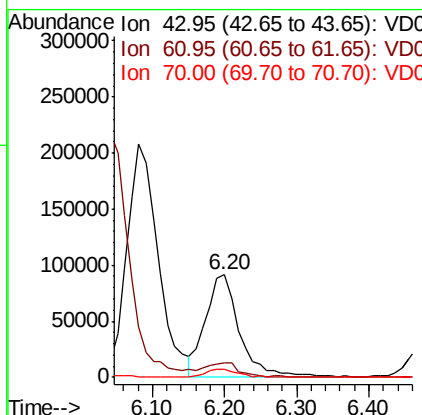
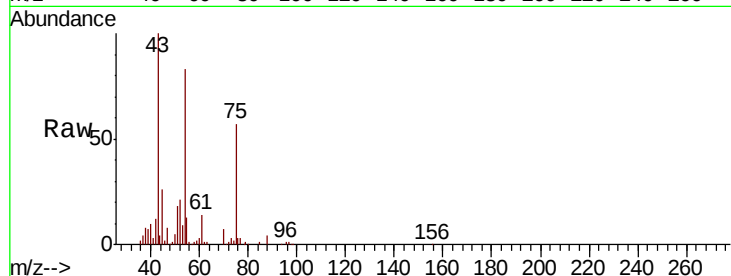




#37
Ethyl Acetate
Concen: 60.971 ug/l
RT: 6.20 min Scan# 485
Delta R.T. 0.02 min
Lab File: VD063168.D
Acq: 22 Jul 2019 10:53

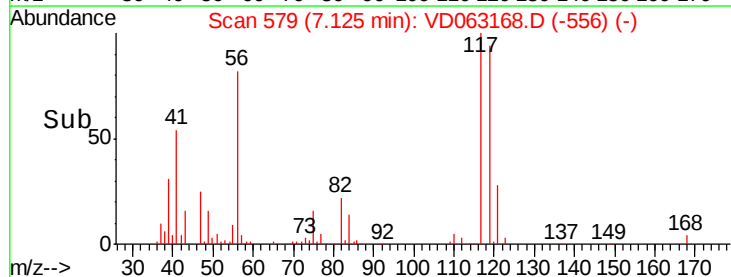
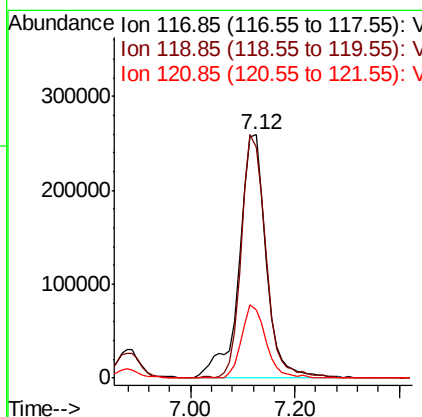
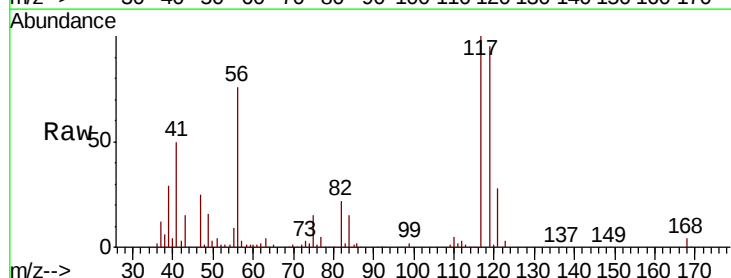
Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

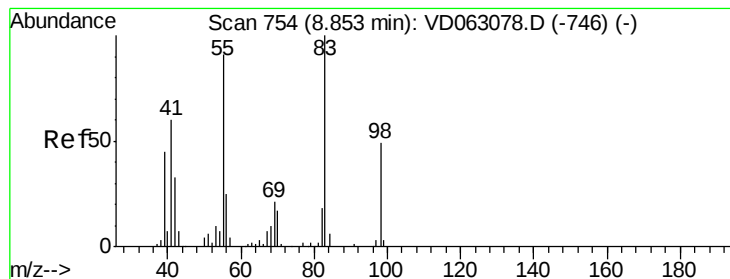
Tot Ion: 43 Resp: 291618
Ion Ratio Lower Upper
43 100
61 13.7 10.6 16.0
70 7.4 6.6 9.8



#38
Carbon Tetrachloride
Concen: 53.036 ug/l
RT: 7.12 min Scan# 579
Delta R.T. 0.02 min
Lab File: VD063168.D
Acq: 22 Jul 2019 10:53

Tgt Ion: 117 Resp: 900650
Ion Ratio Lower Upper
117 100
119 94.9 80.0 120.0
121 28.1 25.0 37.4





#39

Methvlcvclohexane

Concen: 46.371 ug/l

RT: 8.88 min Scan# 757

Delta R.T. 0.02 min

Lab File: VD063168.D

Acq: 22 Jul 2019 10:53

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

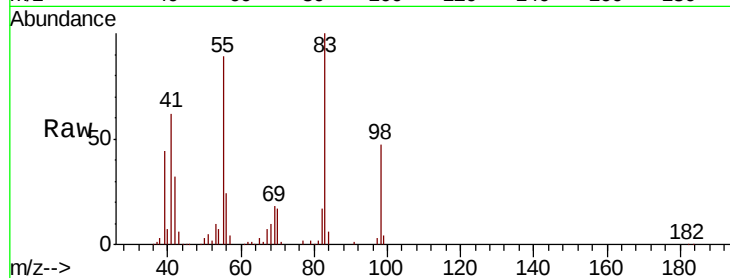
Tot Ion: 83 Resp: 448036

Ion Ratio Lower Upper

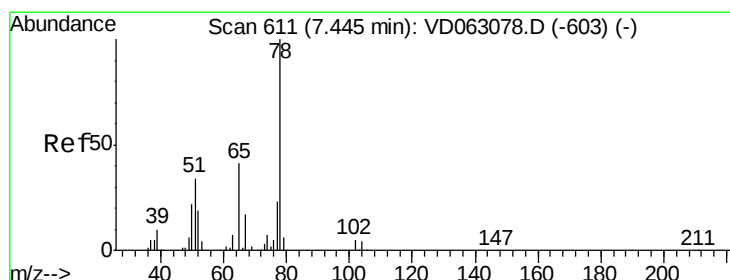
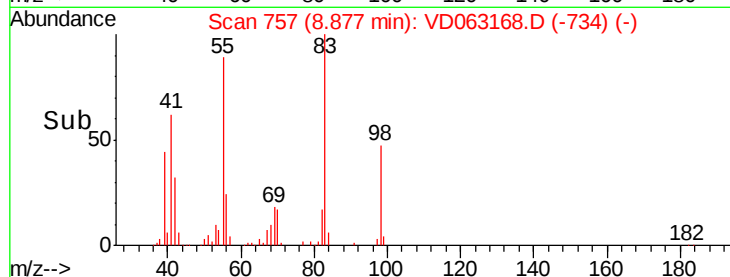
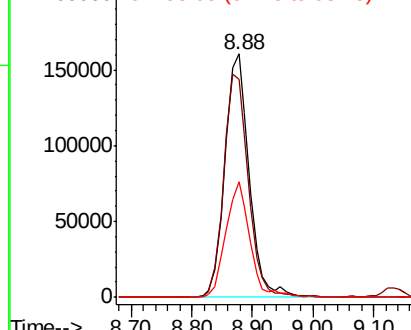
83 100

55 89.4 73.0 109.4

98 47.4 39.4 59.0



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: 50.527 ug/l

RT: 7.46 min Scan# 613

Delta R.T. 0.01 min

Lab File: VD063168.D

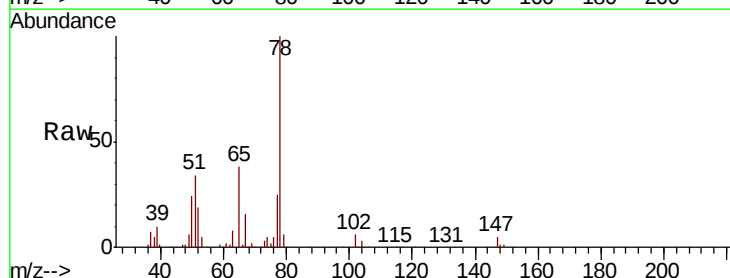
Acq: 22 Jul 2019 10:53

Tgt Ion: 78 Resp: 1182658

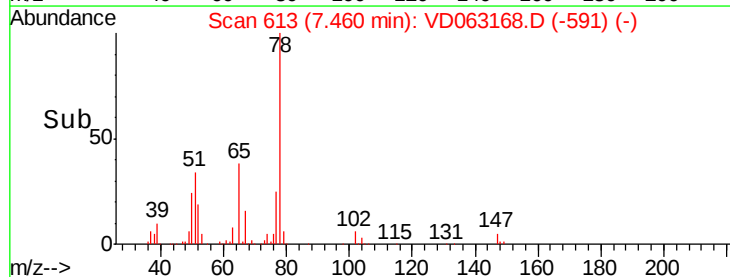
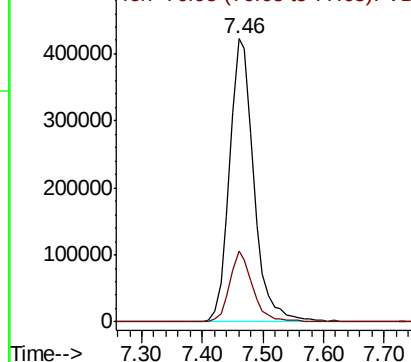
Ion Ratio Lower Upper

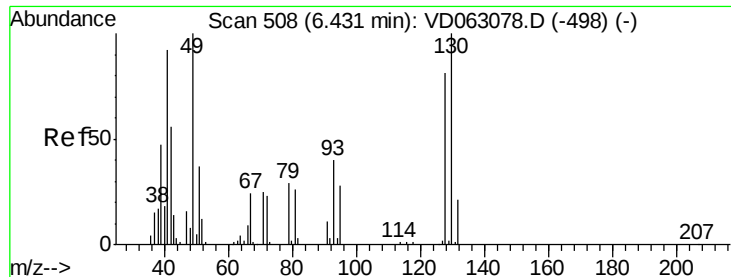
78 100

77 24.9 18.1 27.1



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





#41

Methacrylonitrile

Concen: 55.881 ug/l

RT: 6.47 min Scan# 512

Delta R.T. 0.03 min

Lab File: VD063168.D

Acq: 22 Jul 2019 10:53

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 41 Resp: 362360

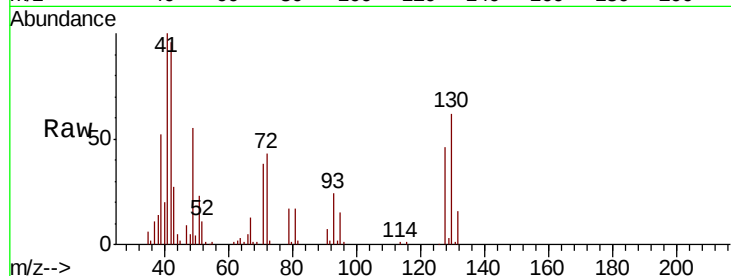
Ion Ratio Lower Upper

41 100

39 52.2 41.0 61.6

67 13.0 21.3 31.9#

52 11.0 10.5 15.7

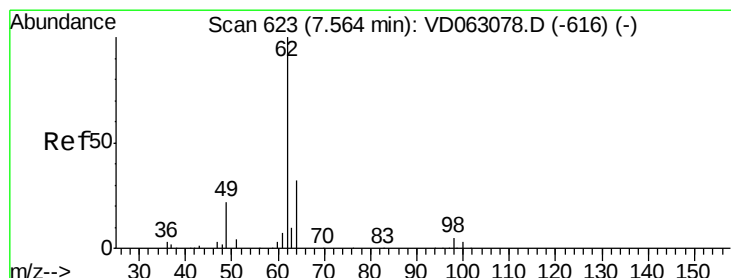
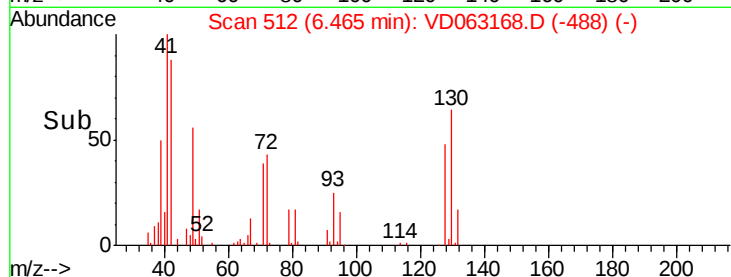
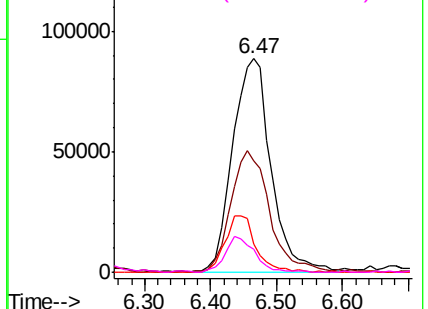


Abundance Ion 40.95 (40.65 to 41.65): VDC

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: 51.810 ug/l

RT: 7.59 min Scan# 626

Delta R.T. 0.02 min

Lab File: VD063168.D

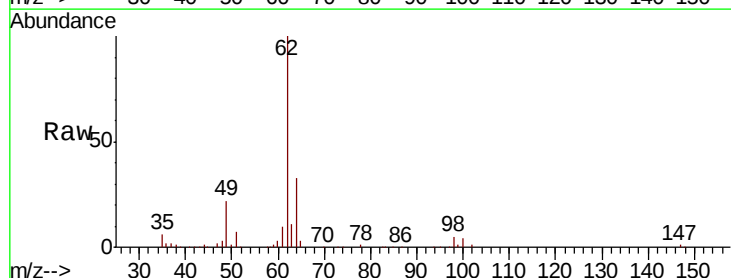
Acq: 22 Jul 2019 10:53

Tgt Ion: 62 Resp: 646078

Ion Ratio Lower Upper

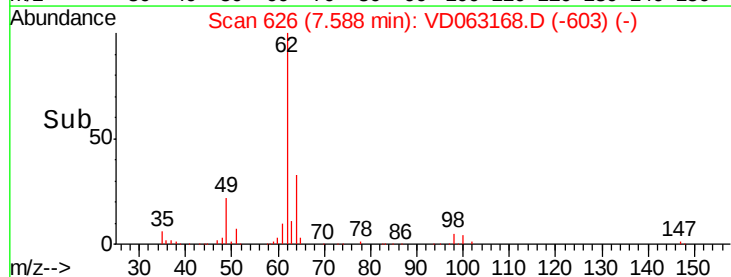
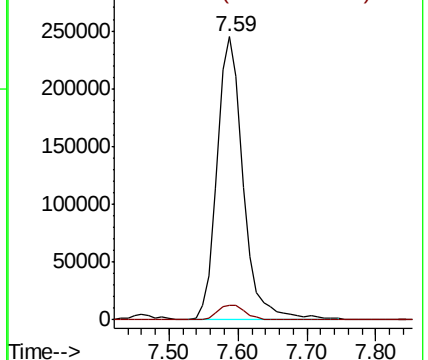
62 100

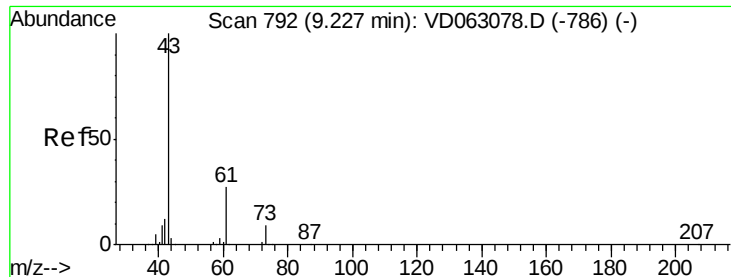
98 5.1 0.0 9.6



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 97.85 (97.55 to 98.55): VDC





#43

Isopropyl Acetate

Concen: 57.577 ug/l

RT: 9.25 min Scan# 795

Delta R.T. 0.02 min

Lab File: VD063168.D

Acq: 22 Jul 2019 10:53

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

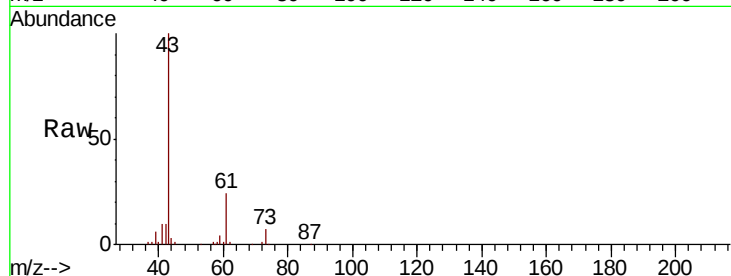
Tot Ion: 43 Resp: 394730

Ion Ratio Lower Upper

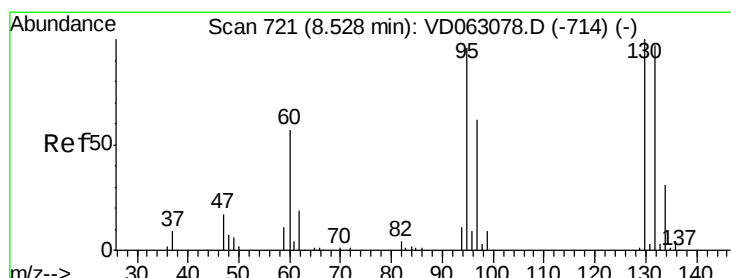
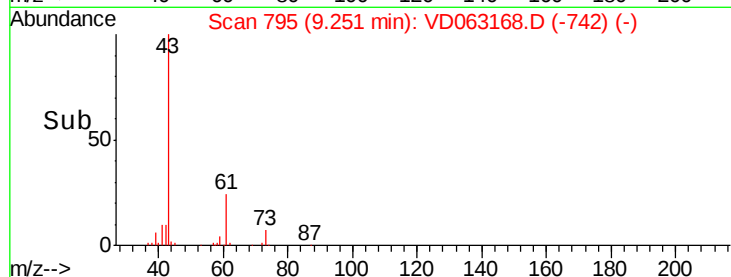
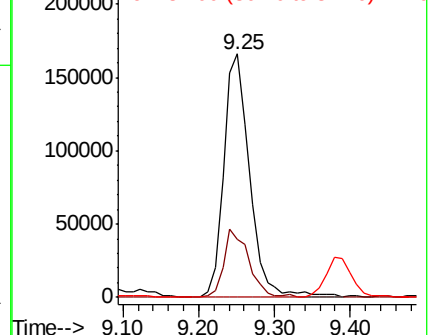
43 100

61 23.7 21.7 32.5

87 0.3 0.2 0.4



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: 52.381 ug/l

RT: 8.55 min Scan# 724

Delta R.T. 0.02 min

Lab File: VD063168.D

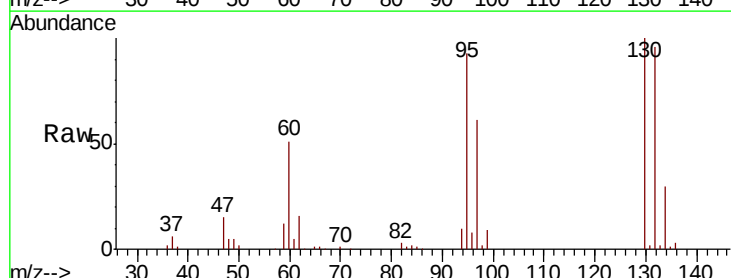
Acq: 22 Jul 2019 10:53

Tgt Ion:130 Resp: 473827

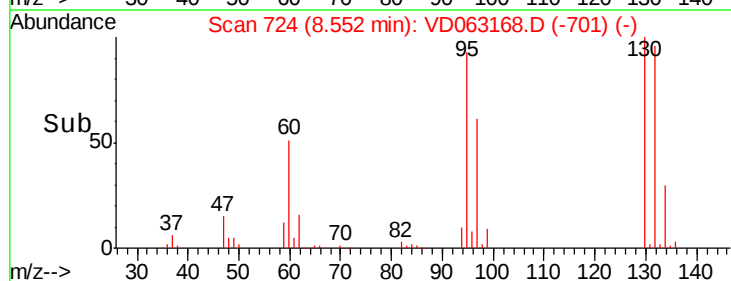
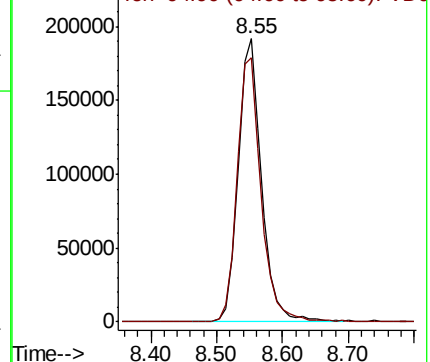
Ion Ratio Lower Upper

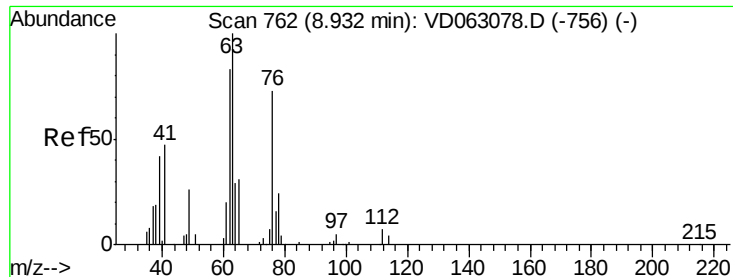
130 100

95 93.4 0.0 191.4



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





#45

1,2-Dichloropropane

Concen: 53.552 ug/l

RT: 8.95 min Scan# 764

Delta R.T. 0.01 min

Lab File: VD063168.D

Acq: 22 Jul 2019 10:53

Instrument :

MSVOA_D

ClientSampleId :

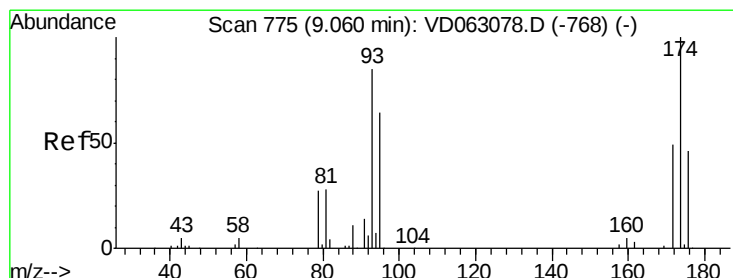
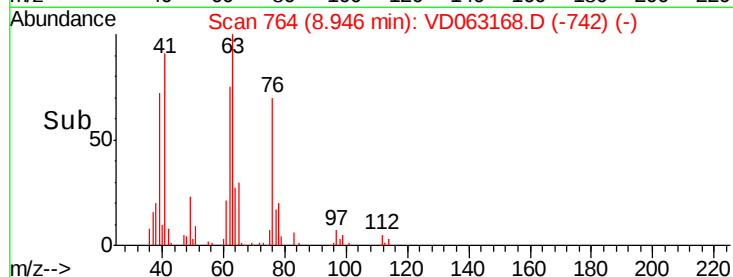
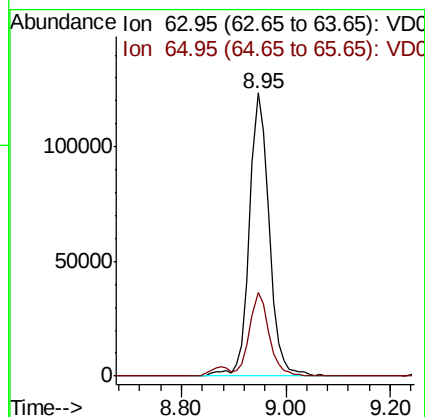
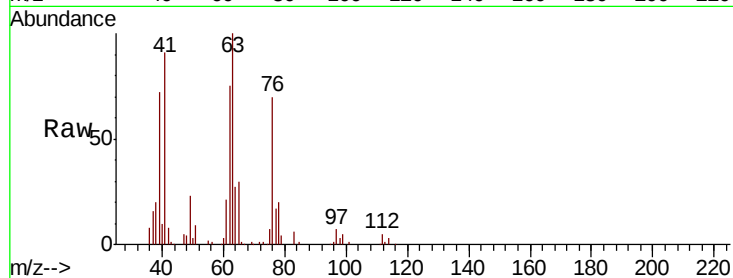
VSTDCCC050

Tot Ion: 63 Resp: 312519

Ion Ratio Lower Upper

63 100

65 29.6 26.3 39.5



#46

Dibromomethane

Concen: 54.029 ug/l

RT: 9.07 min Scan# 777

Delta R.T. 0.01 min

Lab File: VD063168.D

Acq: 22 Jul 2019 10:53

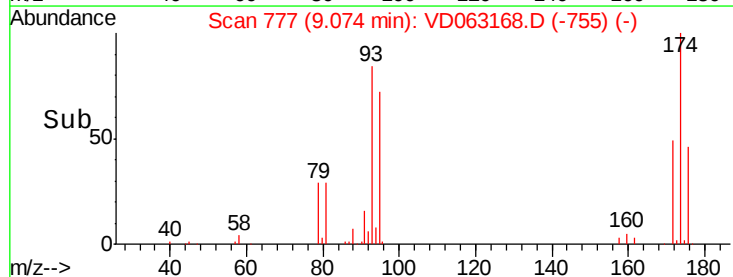
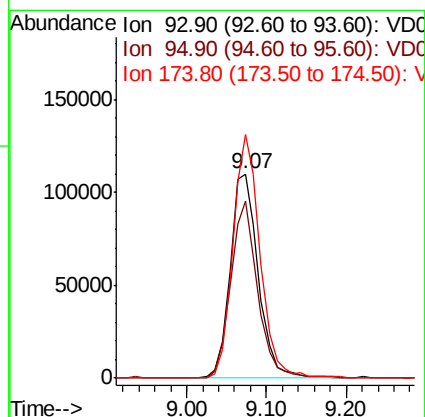
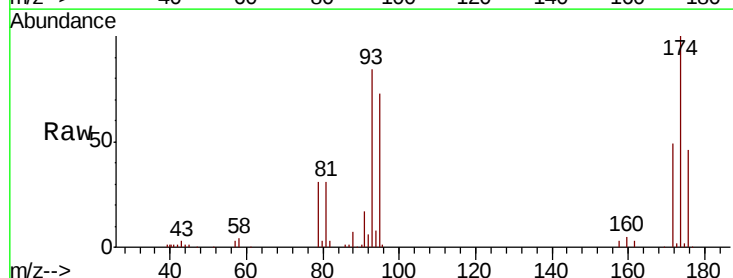
Tgt Ion: 93 Resp: 270946

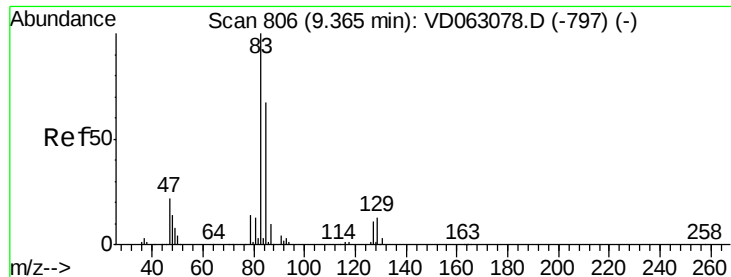
Ion Ratio Lower Upper

93 100

95 86.6 59.7 89.5

174 119.2 93.9 140.9





#47

Bromodichloromethane

Concen: 52.985 ug/l

RT: 9.38 min Scan# 808

Delta R.T. 0.01 min

Lab File: VD063168.D

Acq: 22 Jul 2019 10:53

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

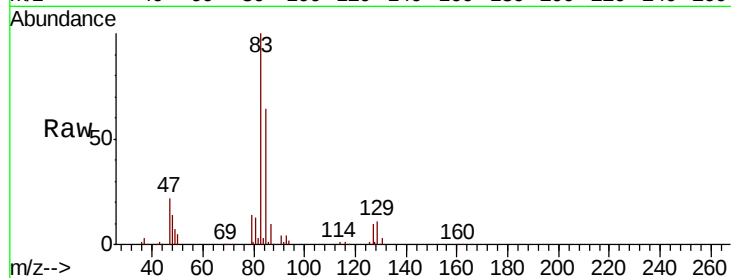
Tot Ion: 83 Resp: 693382

Ion Ratio Lower Upper

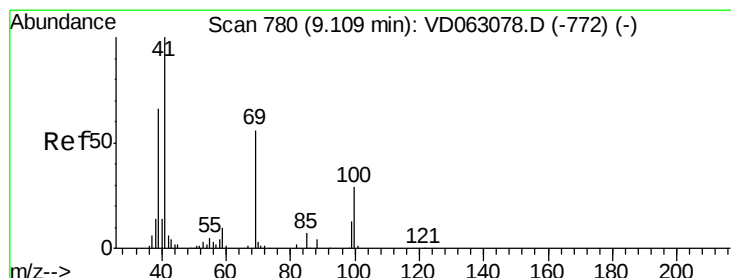
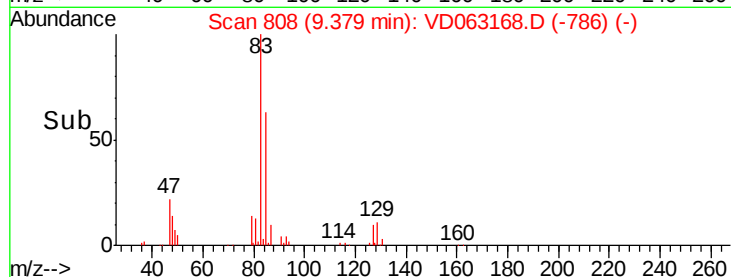
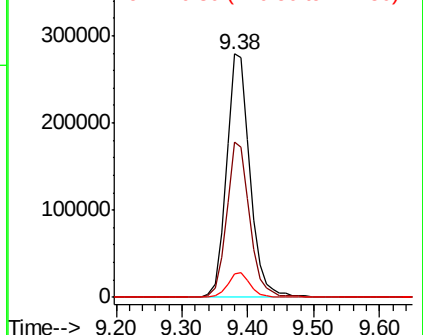
83 100

85 63.6 53.7 80.5

127 9.6 9.0 13.6



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): VDC



#48

Methyl methacrylate

Concen: 56.073 ug/l

RT: 9.13 min Scan# 783

Delta R.T. 0.02 min

Lab File: VD063168.D

Acq: 22 Jul 2019 10:53

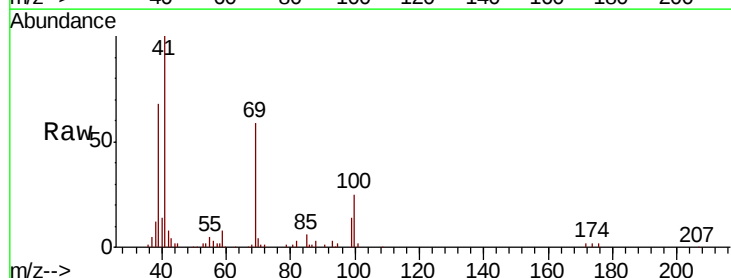
Tgt Ion: 41 Resp: 252446

Ion Ratio Lower Upper

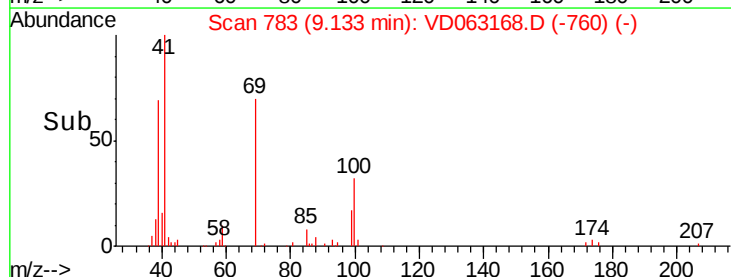
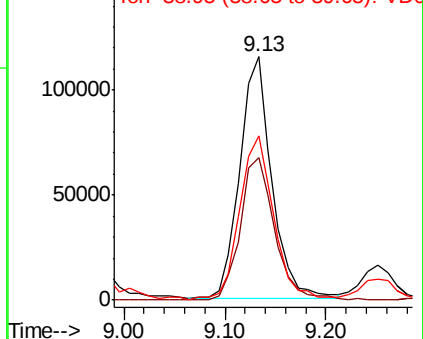
41 100

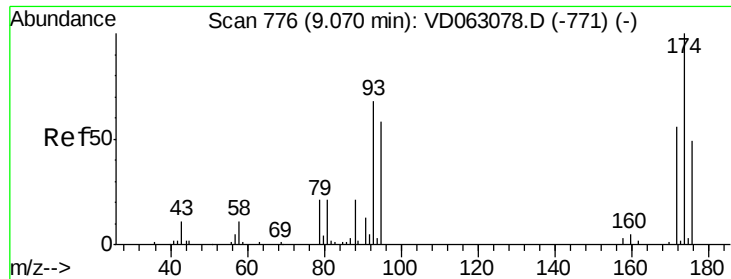
69 58.8 44.3 66.5

39 67.7 52.6 78.8



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

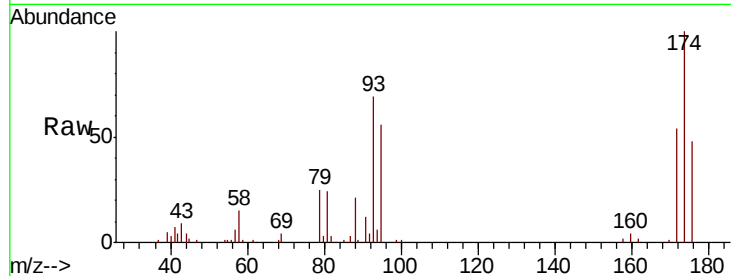




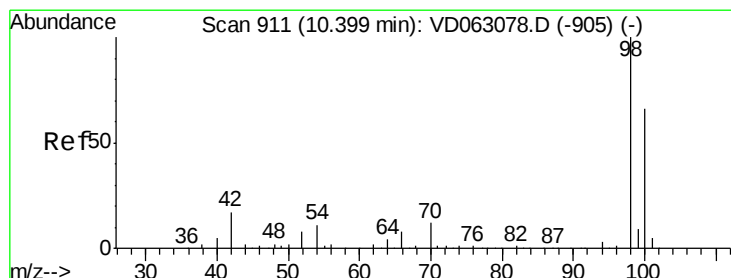
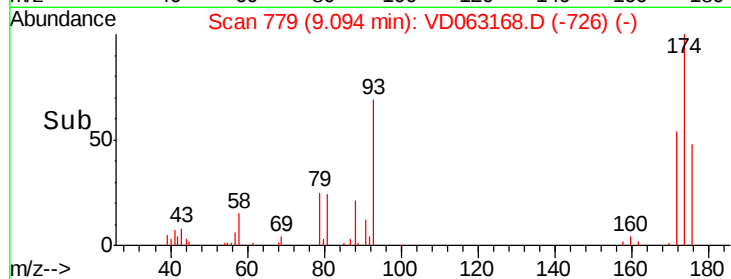
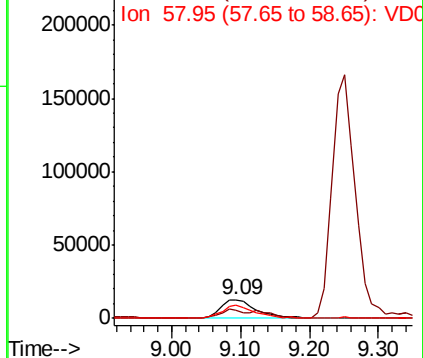
#49
1,4-Dioxane
Concen: 1185.364 ug/l
RT: 9.09 min Scan# 779
Delta R.T. 0.02 min
Lab File: VD063168.D
Acq: 22 Jul 2019 10:53

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 88 Resp: 46024
Ion Ratio Lower Upper
88 100
43 43.4 40.2 60.4
58 68.5 41.6 62.4#

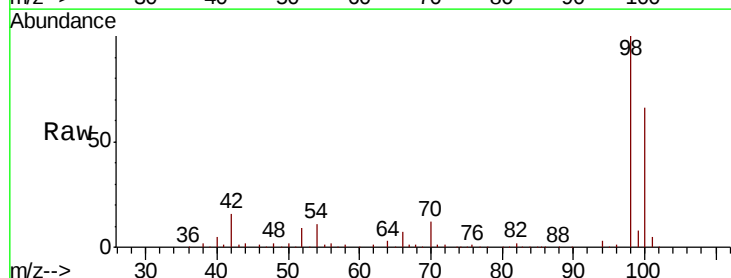


Abundance Ion 88.00 (87.70 to 88.70): VDC
Ion 43.05 (42.75 to 43.75): VDC
Ion 57.95 (57.65 to 58.65): VDC

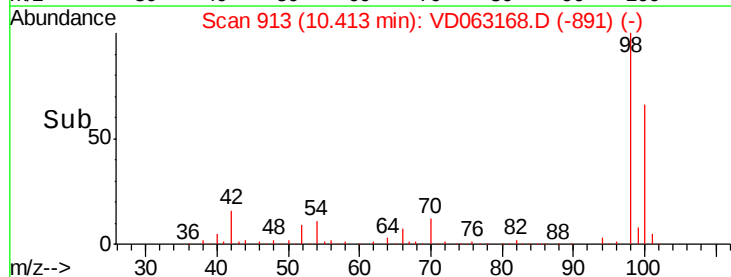
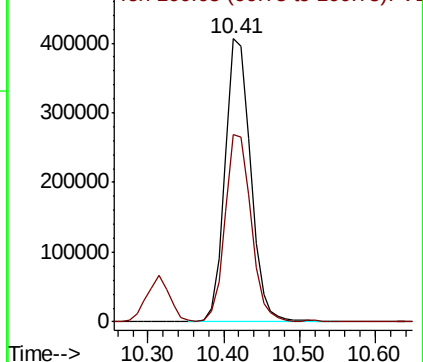


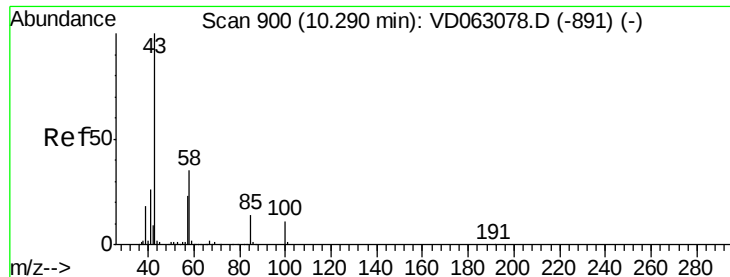
#50
Toluene-d8
Concen: 44.605 ug/l
RT: 10.41 min Scan# 913
Delta R.T. 0.01 min
Lab File: VD063168.D
Acq: 22 Jul 2019 10:53

Tgt Ion: 98 Resp: 948290
Ion Ratio Lower Upper
98 100
100 66.4 53.5 80.3



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

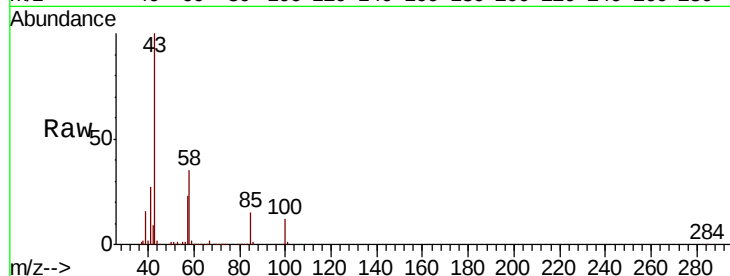




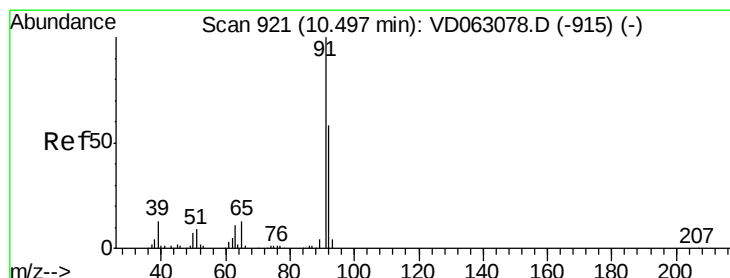
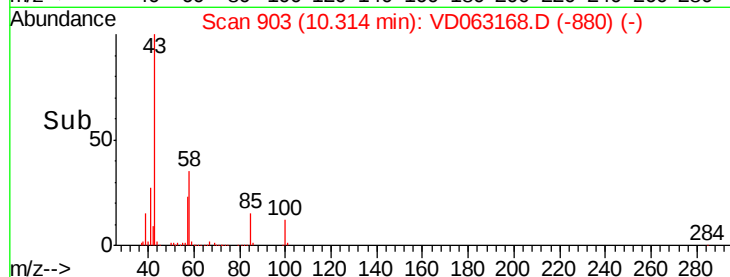
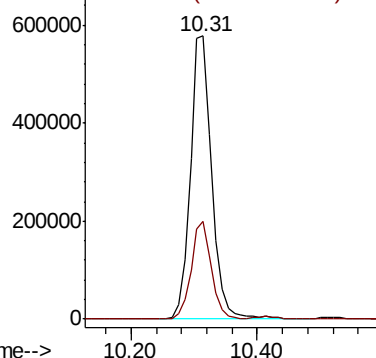
#51
 4-Methyl-2-Pentanone
 Concen: 299.829 ug/l
 RT: 10.31 min Scan# 903
 Delta R.T. 0.02 min
 Lab File: VD063168.D
 Acq: 22 Jul 2019 10:53

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion: 43 Resp: 1363335
 Ion Ratio Lower Upper
 43 100
 58 34.6 27.8 41.6

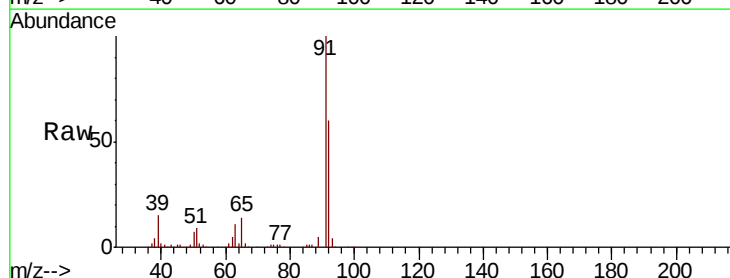


Abundance Ion 42.95 (42.65 to 43.65): VDC
 Ion 57.95 (57.65 to 58.65): VDC

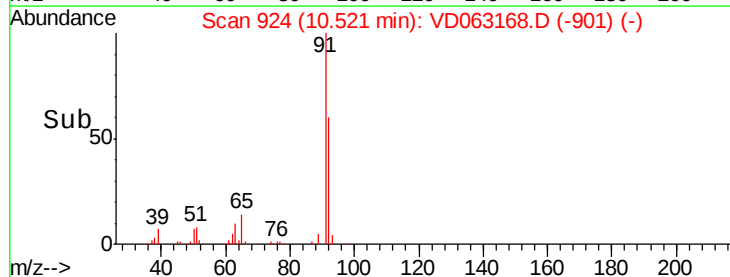
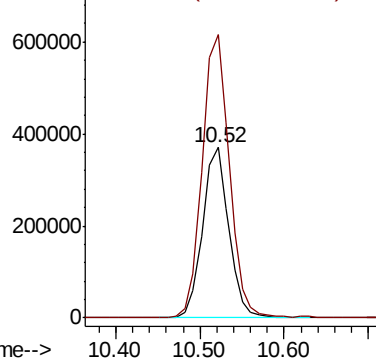


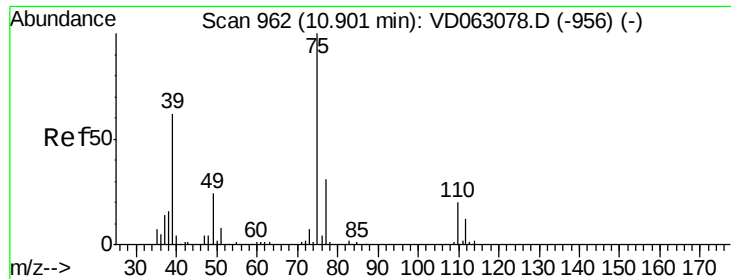
#52
 Toluene
 Concen: 51.377 ug/l
 RT: 10.52 min Scan# 924
 Delta R.T. 0.02 min
 Lab File: VD063168.D
 Acq: 22 Jul 2019 10:53

Tgt Ion: 92 Resp: 803044
 Ion Ratio Lower Upper
 92 100
 91 166.3 137.9 206.9



Abundance Ion 92.00 (91.70 to 92.70): VDC
 Ion 91.00 (90.70 to 91.70): VDC

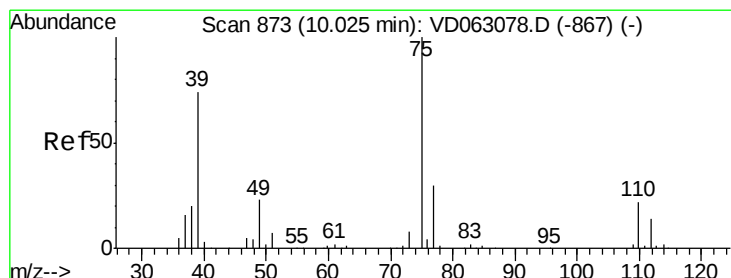
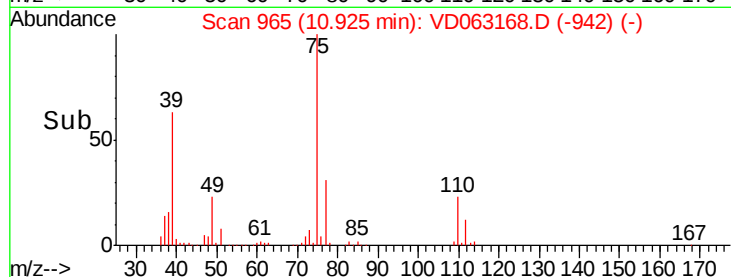
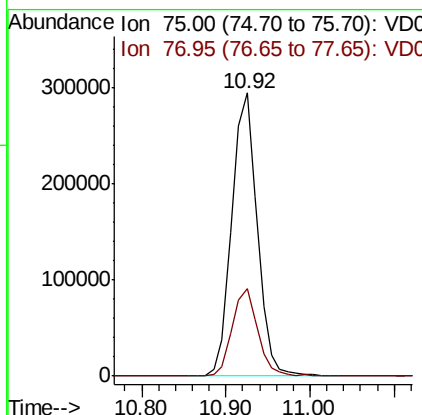
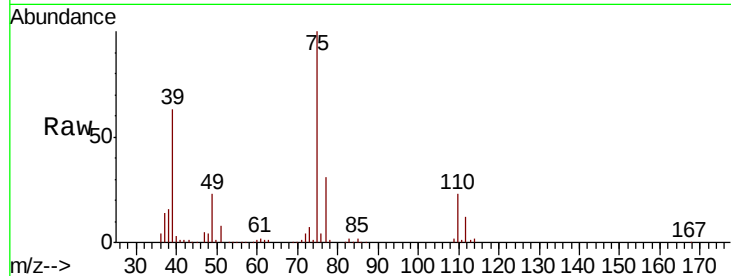




#53
 t-1,3-Dichloropropene
 Concen: 55.517 ug/l
 RT: 10.92 min Scan# 965
 Delta R.T. 0.02 min
 Lab File: VD063168.D
 Acq: 22 Jul 2019 10:53

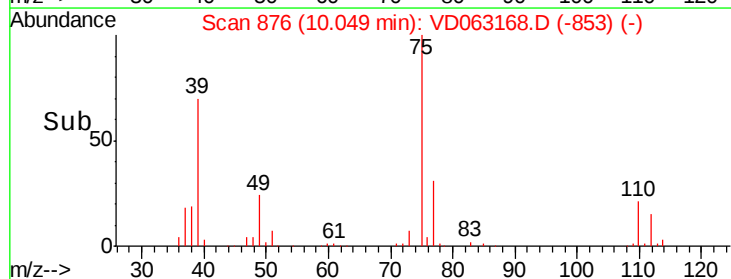
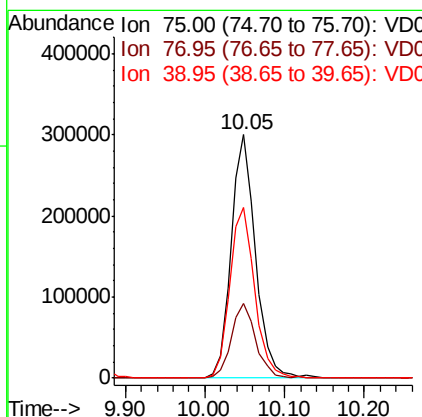
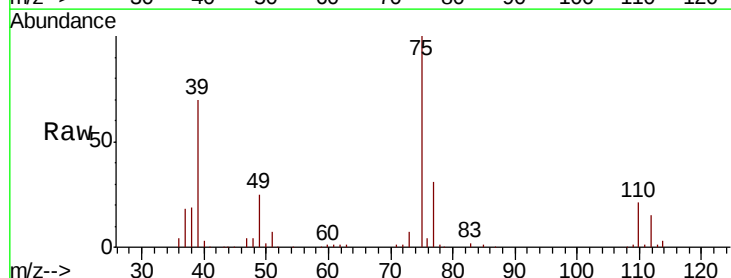
Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

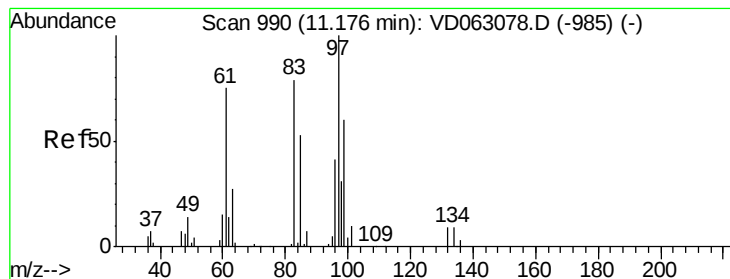
Tot Ion: 75 Resp: 622433
 Ion Ratio Lower Upper
 75 100
 77 31.1 24.9 37.3



#54
 cis-1,3-Dichloropropene
 Concen: 55.281 ug/l
 RT: 10.05 min Scan# 876
 Delta R.T. 0.02 min
 Lab File: VD063168.D
 Acq: 22 Jul 2019 10:53

Tgt Ion: 75 Resp: 640858
 Ion Ratio Lower Upper
 75 100
 77 30.6 23.9 35.9
 39 69.9 59.4 89.0





#55

1,1,2-Trichloroethane

Concen: 56.073 ug/l

RT: 11.20 min Scan# 993

Delta R.T. 0.02 min

Lab File: VD063168.D

Acq: 22 Jul 2019 10:53

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 97 Resp: 302880

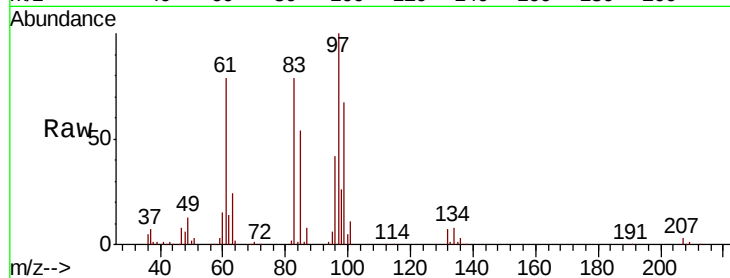
Ion Ratio Lower Upper

97 100

83 79.4 63.2 94.8

85 54.2 42.0 63.0

99 66.8 48.3 72.5

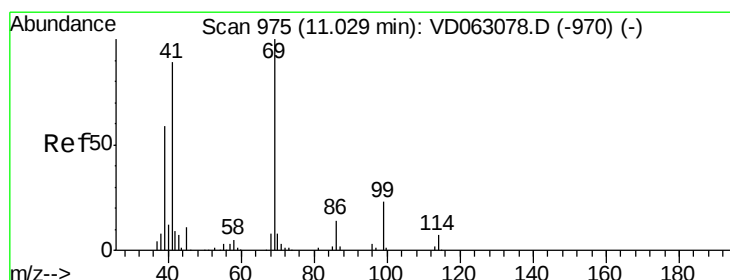
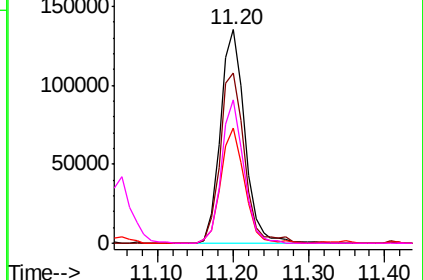
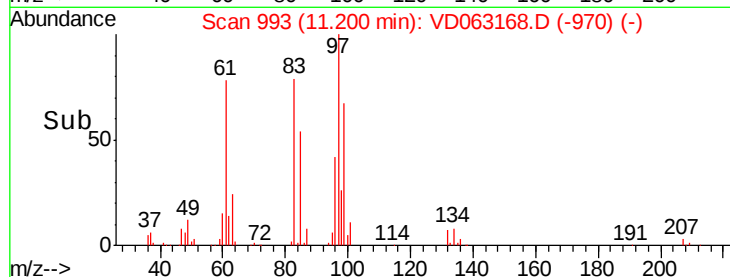


Abundance Ion 96.85 (96.55 to 97.55): VDC

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: 58.301 ug/l

RT: 11.05 min Scan# 978

Delta R.T. 0.02 min

Lab File: VD063168.D

Acq: 22 Jul 2019 10:53

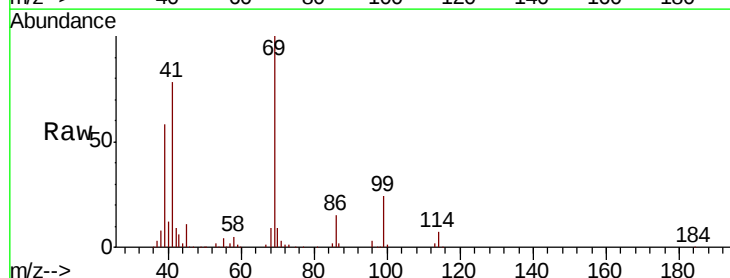
Tgt Ion: 69 Resp: 351858

Ion Ratio Lower Upper

69 100

41 77.9 71.0 106.4

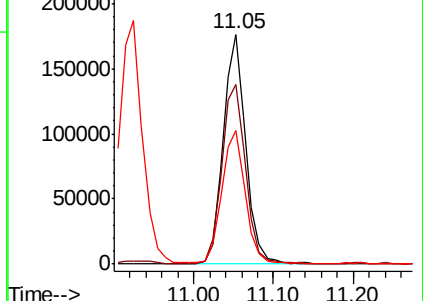
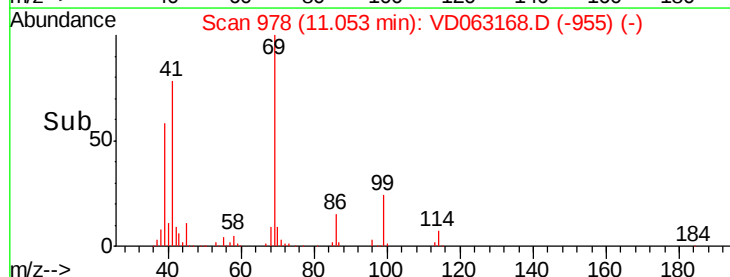
39 58.2 47.7 71.5

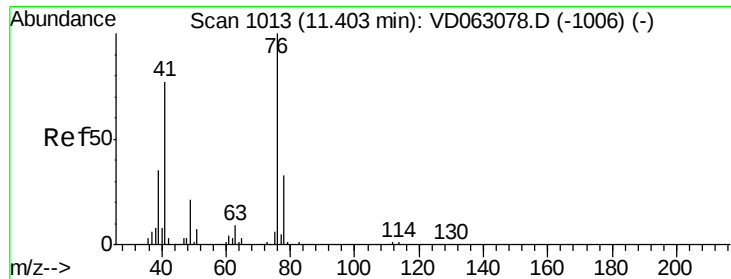


Abundance Ion 69.00 (68.70 to 69.70): VDC

Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC





#57

1,3-Dichloropropane

Concen: 54.387 ug/l

RT: 11.42 min Scan# 1015

Delta R.T. 0.01 min

Lab File: VD063168.D

Acq: 22 Jul 2019 10:53

Instrument :

MSVOA_D

ClientSampleId :

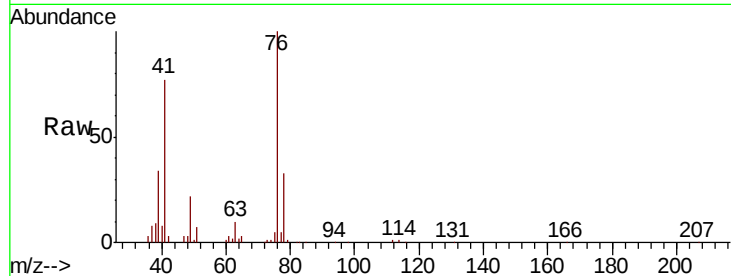
VSTDCCC050

Tot Ion: 76 Resp: 447020

Ion Ratio Lower Upper

76 100

78 32.6 26.8 40.2



Abundance Ion 75.95 (75.65 to 76.65): VDC

Ion 77.95 (77.65 to 78.65): VDC

11.42

250000

200000

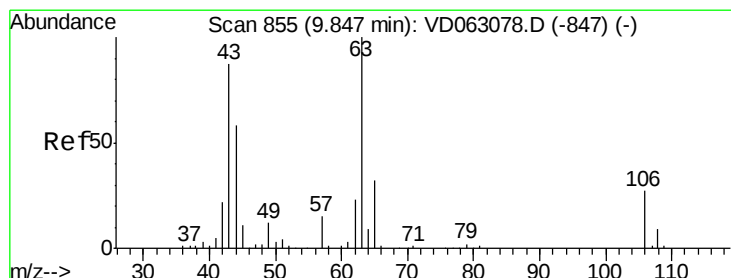
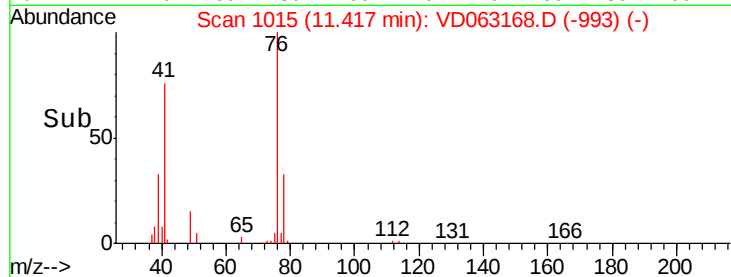
150000

100000

50000

0

Time-->



#58

2-Chloroethyl Vinyl ether

Concen: 264.204 ug/l

RT: 9.87 min Scan# 858

Delta R.T. 0.02 min

Lab File: VD063168.D

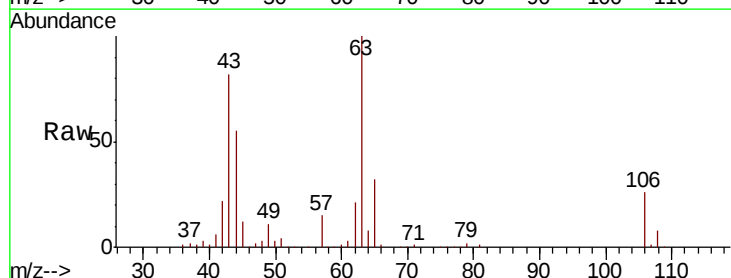
Acq: 22 Jul 2019 10:53

Tgt Ion: 63 Resp: 887835

Ion Ratio Lower Upper

63 100

106 25.7 21.3 31.9



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 105.95 (105.65 to 106.65): V

9.87

400000

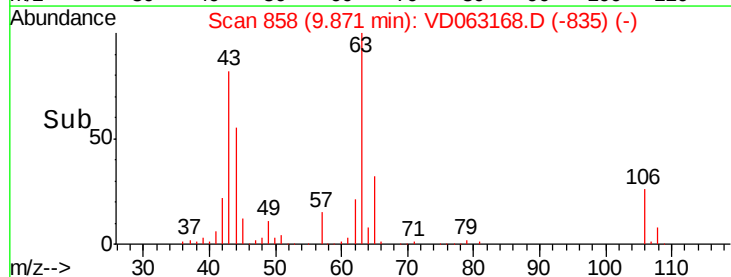
300000

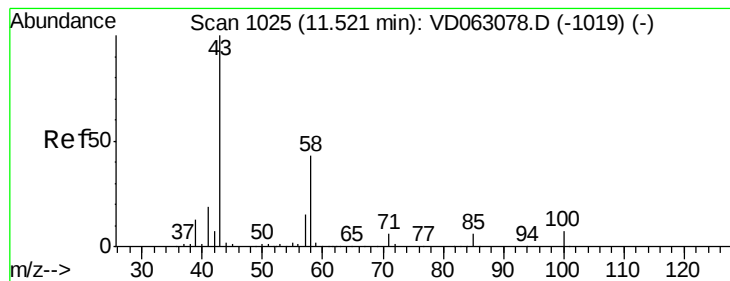
200000

100000

0

Time-->





#59

2-Hexanone

Concen: 306.995 ug/l

RT: 11.54 min Scan# 1027

Delta R.T. 0.01 min

Lab File: VD063168.D

Acq: 22 Jul 2019 10:53

Instrument :

MSVOA_D

ClientSampleId :

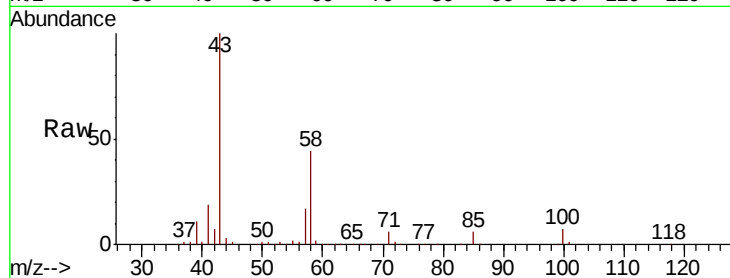
VSTDCCC050

Tot Ion: 43 Resp: 1076547

Ion Ratio Lower Upper

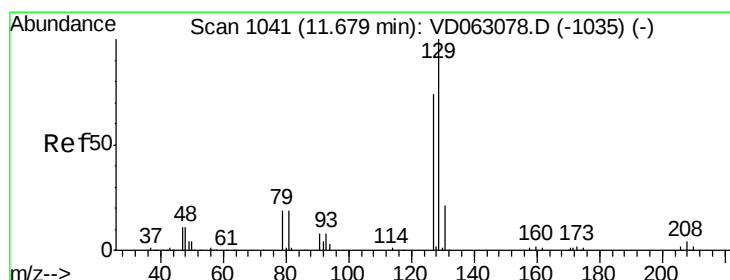
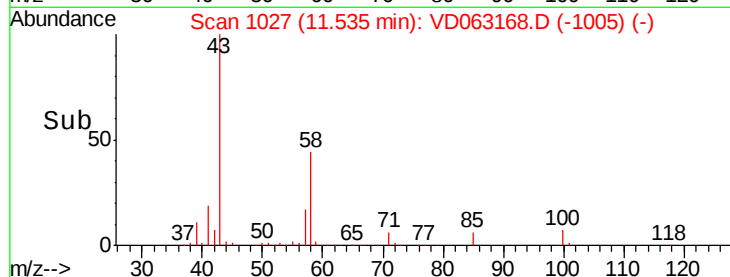
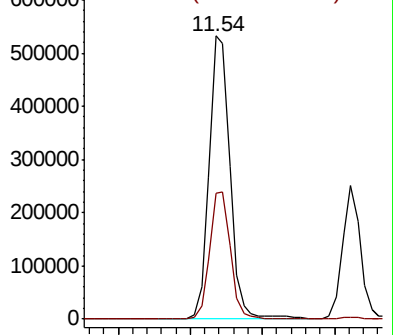
43 100

58 44.3 21.7 65.1



Abundance Ion 42.95 (42.65 to 43.65): VD063168.D (-1019) (-)

Ion 57.95 (57.65 to 58.65): VD063168.D (-1019) (-)



#60

Dibromochloromethane

Concen: 53.712 ug/l

RT: 11.69 min Scan# 1043

Delta R.T. 0.01 min

Lab File: VD063168.D

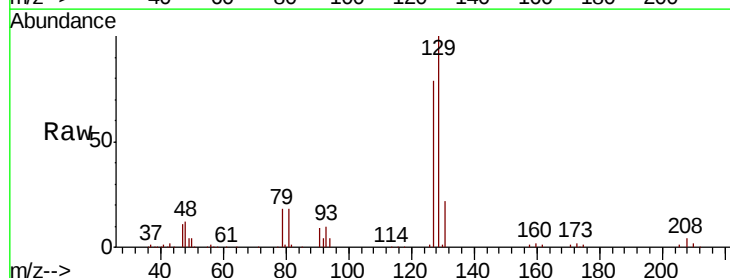
Acq: 22 Jul 2019 10:53

Tgt Ion: 129 Resp: 556139

Ion Ratio Lower Upper

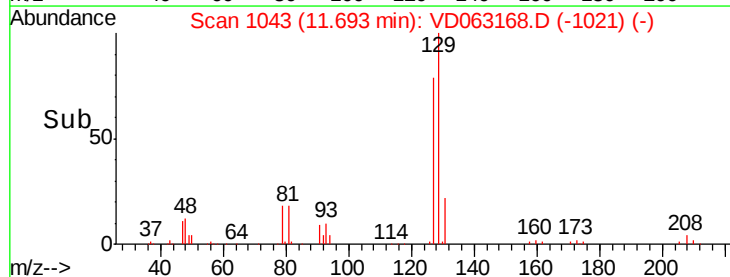
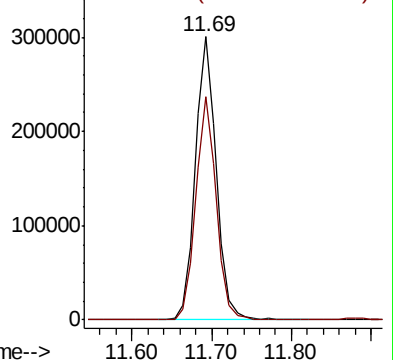
129 100

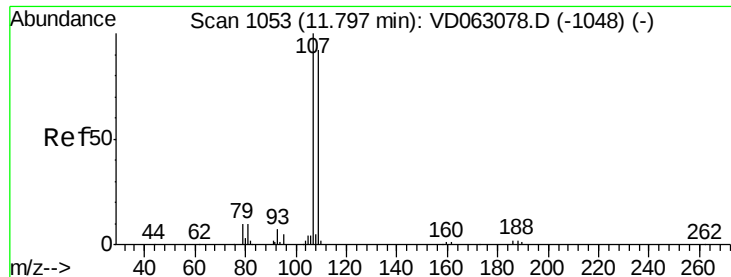
127 78.9 37.0 110.9



Abundance Ion 128.80 (128.50 to 129.50): VD063168.D (-1021) (-)

Ion 126.80 (126.50 to 127.50): VD063168.D (-1021) (-)





#61

1,2-Dibromoethane

Concen: 53.459 ug/l

RT: 11.81 min Scan# 1055

Delta R.T. 0.01 min

Lab File: VD063168.D

Acq: 22 Jul 2019 10:53

Instrument :

MSVOA_D

ClientSampleId :

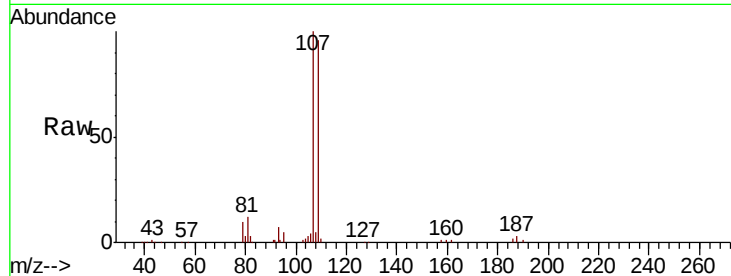
VSTDCCC050

Tot Ion:107 Resp: 345643

Ion Ratio Lower Upper

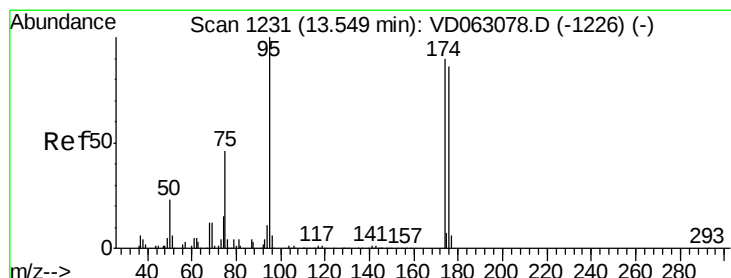
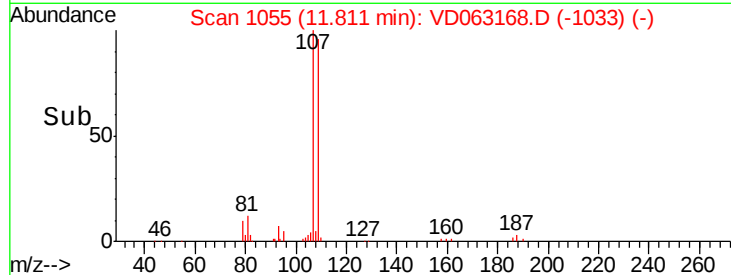
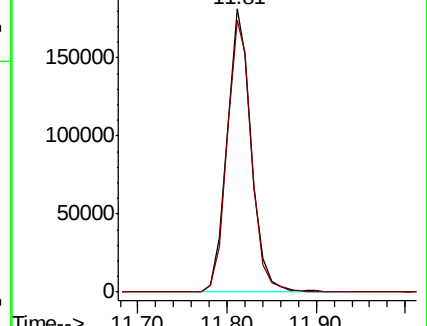
107 100

109 96.2 73.6 110.4



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.90 (108.60 to 109.60): V



#62

4-Bromofluorobenzene

Concen: 45.564 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. 0.01 min

Lab File: VD063168.D

Acq: 22 Jul 2019 10:53

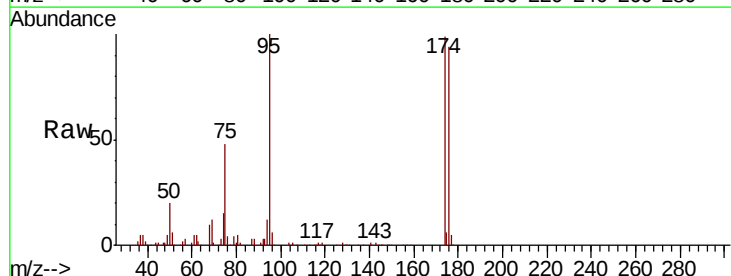
Tgt Ion: 95 Resp: 448138

Ion Ratio Lower Upper

95 100

174 99.4 0.0 180.6

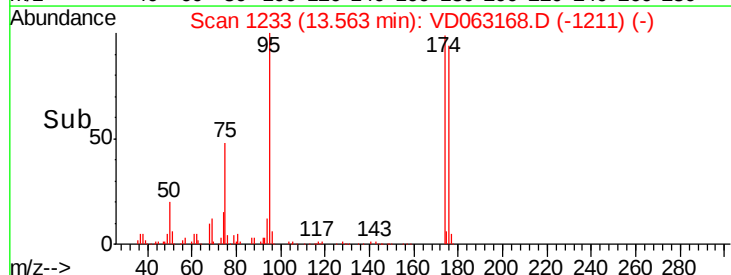
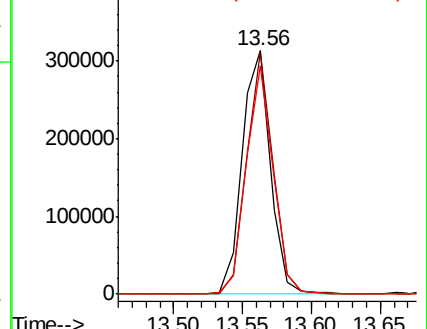
176 93.6 0.0 172.2

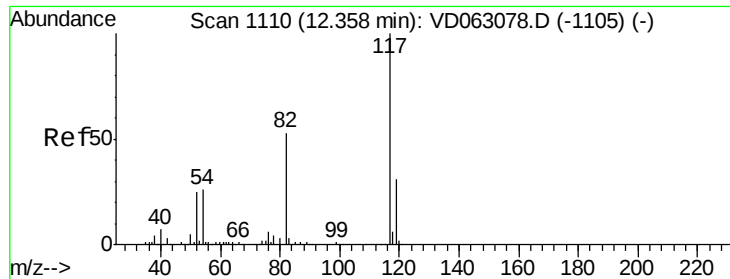


Abundance Ion 95.00 (94.70 to 95.70): V

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V

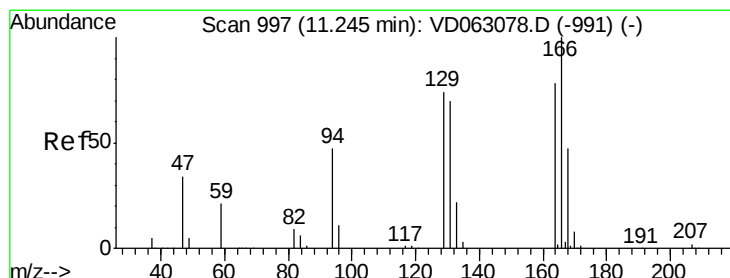
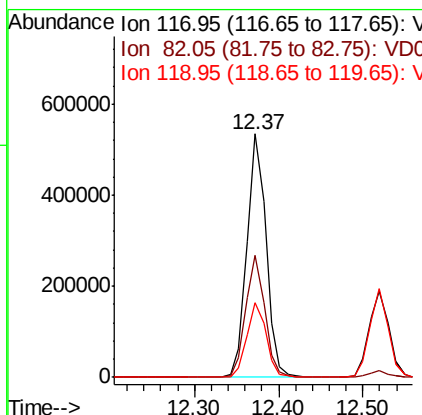
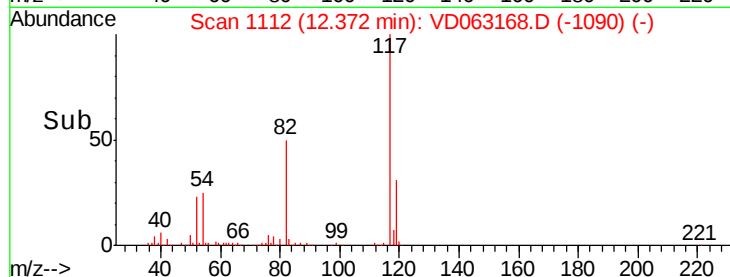
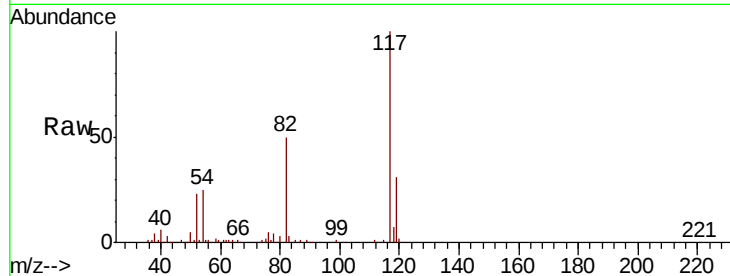




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1112
Delta R.T. 0.01 min
Lab File: VD063168.D
Acq: 22 Jul 2019 10:53

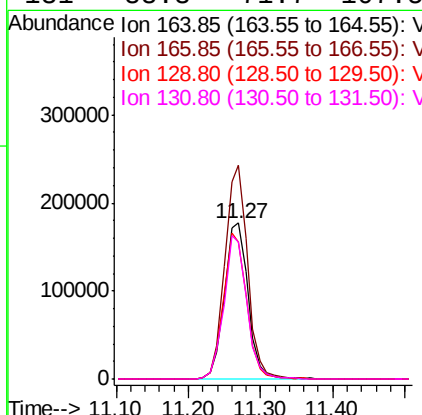
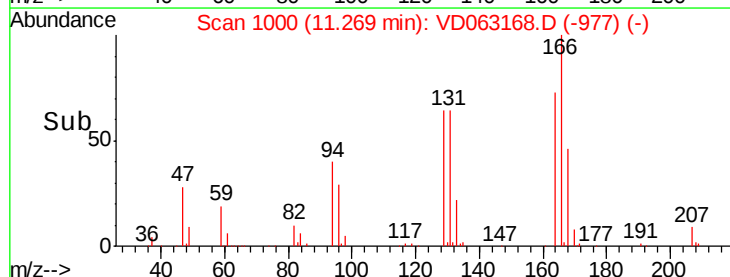
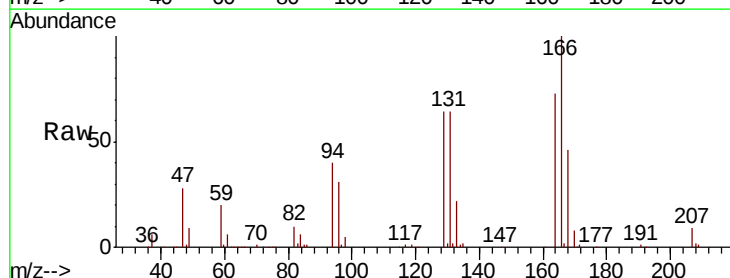
Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

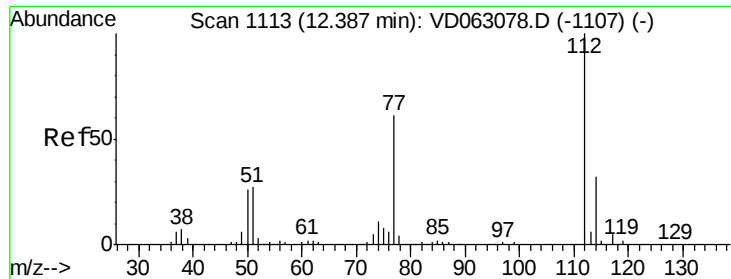
Tot Ion:117 Resp: 851670
Ion Ratio Lower Upper
117 100
82 50.3 42.3 63.5
119 30.8 25.2 37.8



#64
Tetrachloroethene
Concen: 48.489 ug/l
RT: 11.27 min Scan# 1000
Delta R.T. 0.02 min
Lab File: VD063168.D
Acq: 22 Jul 2019 10:53

Tgt Ion:164 Resp: 400717
Ion Ratio Lower Upper
164 100
166 137.2 102.8 154.2
129 88.3 76.4 114.6
131 88.3 71.7 107.5

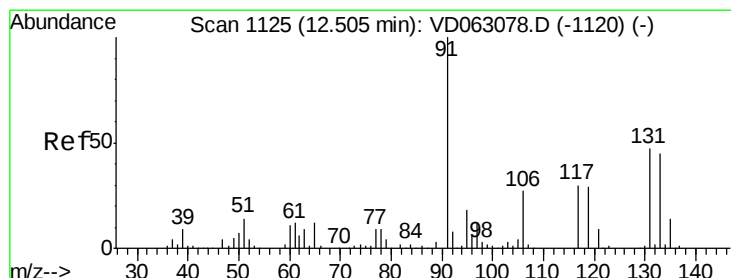
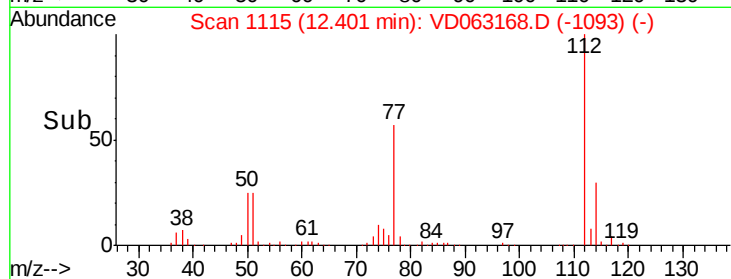
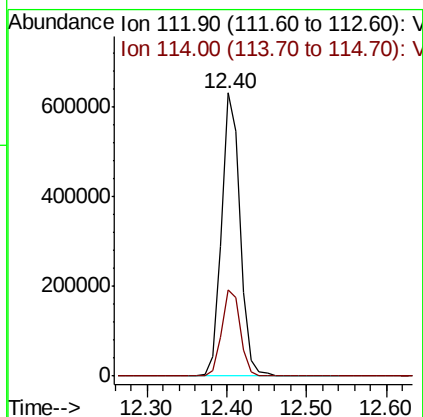
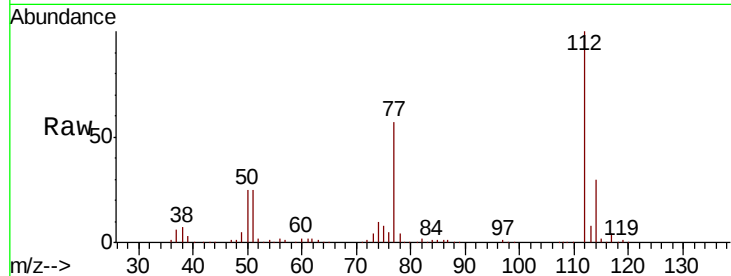




#65
Chlorobenzene
Concen: 52.119 ug/l
RT: 12.40 min Scan# 1115
Delta R.T. 0.01 min
Lab File: VD063168.D
Acq: 22 Jul 2019 10:53

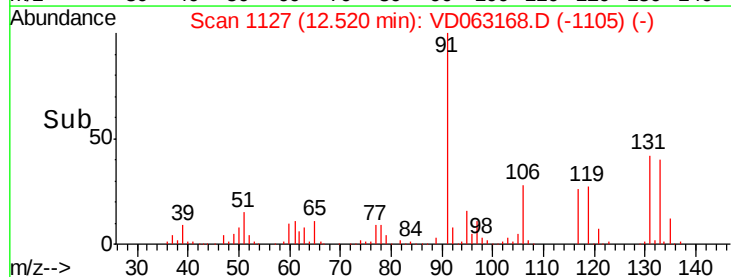
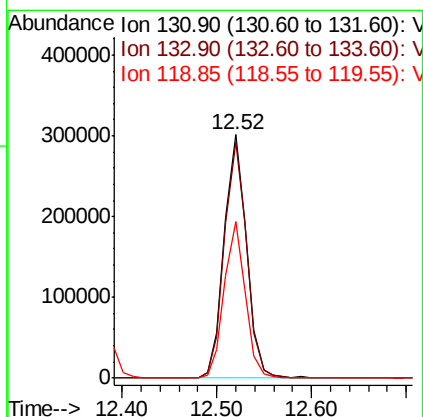
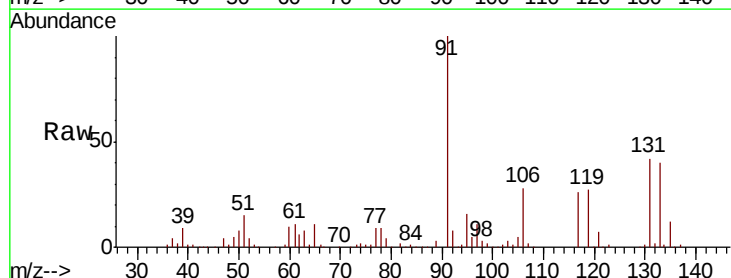
Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

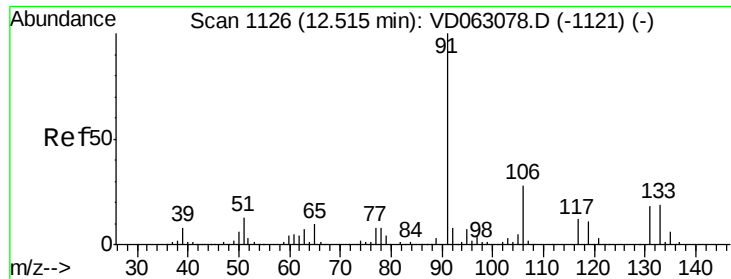
Tot Ion:112 Resp: 1043445
Ion Ratio Lower Upper
112 100
114 30.4 25.9 38.9



#66
1,1,1,2-Tetrachloroethane
Concen: 53.042 ug/l
RT: 12.52 min Scan# 1127
Delta R.T. 0.01 min
Lab File: VD063168.D
Acq: 22 Jul 2019 10:53

Tgt Ion:131 Resp: 492334
Ion Ratio Lower Upper
131 100
133 97.1 48.5 145.6
119 64.5 30.8 92.3

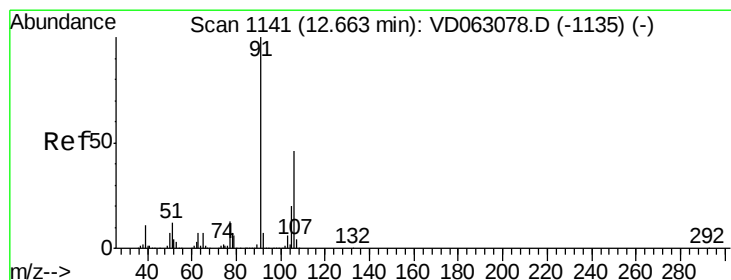
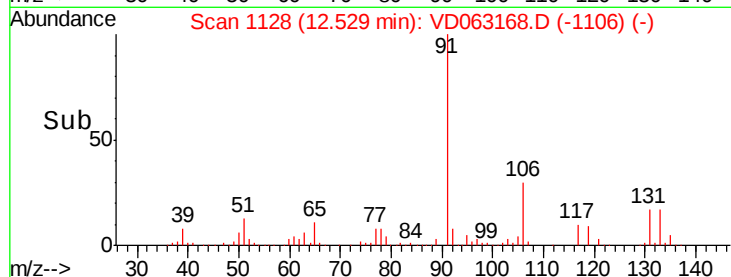
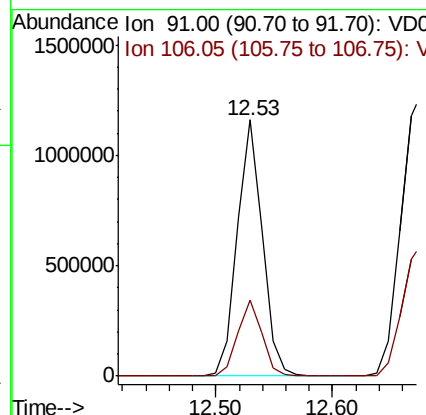
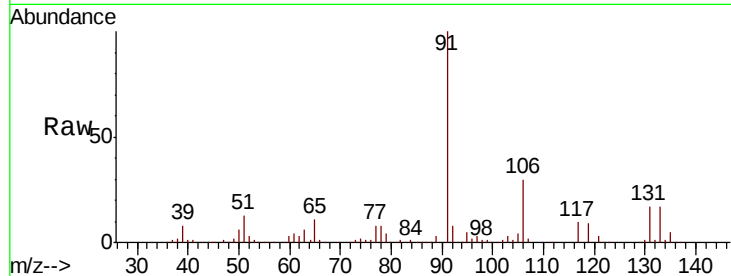




#67
Ethyl Benzene
Concen: 49.961 ug/l
RT: 12.53 min Scan# 1128
Delta R.T. 0.01 min
Lab File: VD063168.D
Acq: 22 Jul 2019 10:53

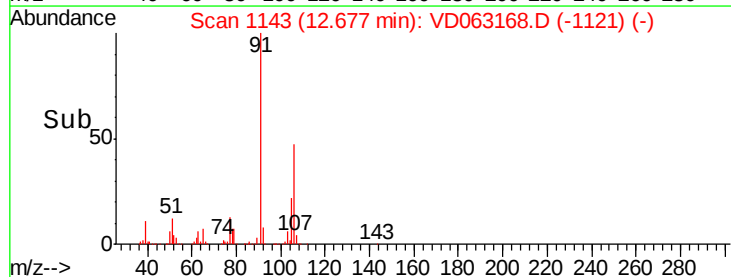
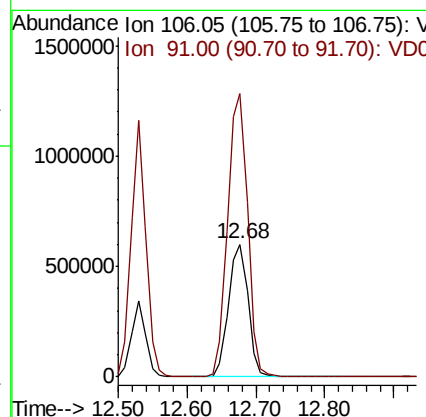
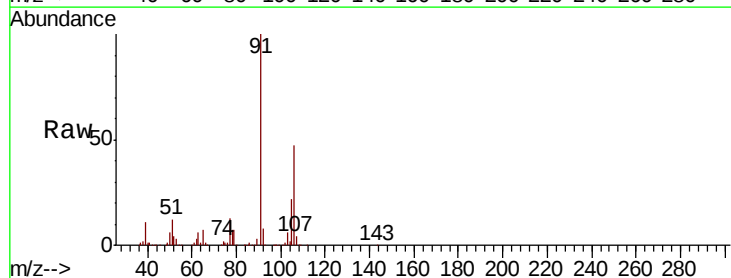
Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

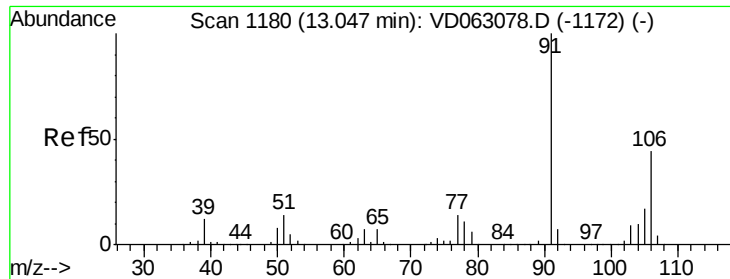
Tot Ion: 91 Resp: 1737930
Ion Ratio Lower Upper
91 100
106 29.8 22.5 33.7



#68
m/p-Xylenes
Concen: 94.958 ug/l
RT: 12.68 min Scan# 1143
Delta R.T. 0.01 min
Lab File: VD063168.D
Acq: 22 Jul 2019 10:53

Tgt Ion: 106 Resp: 1183107
Ion Ratio Lower Upper
106 100
91 213.9 173.0 259.6

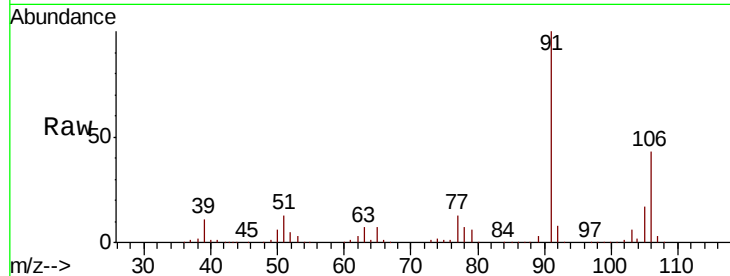




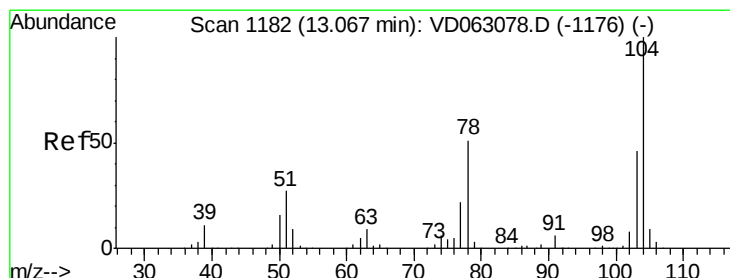
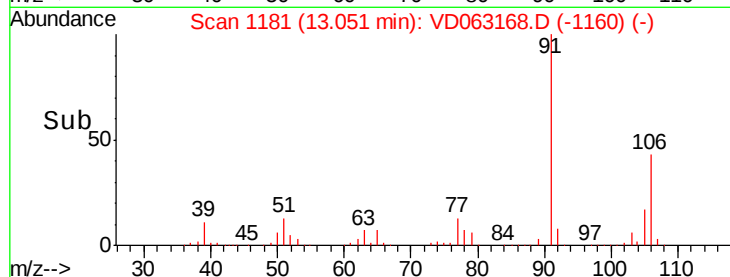
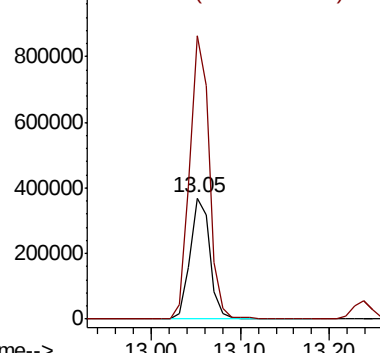
#69
o-Xylene
Concen: 48.632 ug/l
RT: 13.05 min Scan# 1181
Delta R.T. 0.00 min
Lab File: VD063168.D
Acq: 22 Jul 2019 10:53

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion:106 Resp: 574534
Ion Ratio Lower Upper
106 100
91 234.2 114.9 344.7

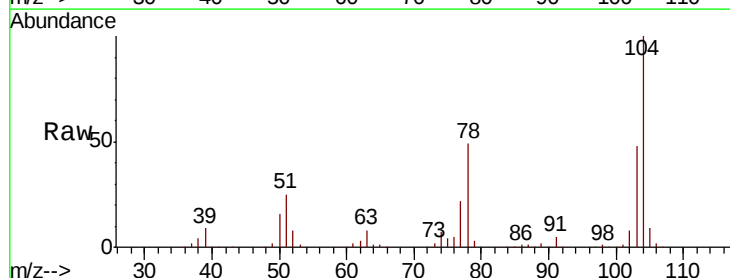


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): V

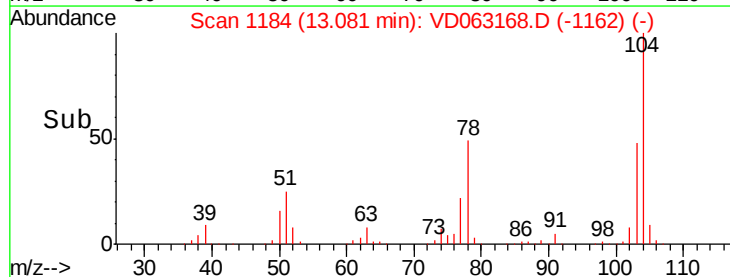
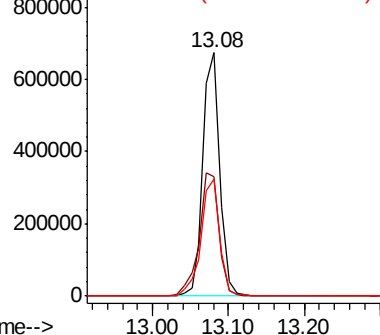


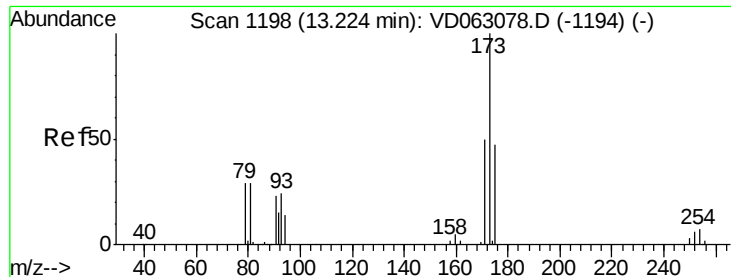
#70
Styrene
Concen: 49.895 ug/l
RT: 13.08 min Scan# 1184
Delta R.T. 0.01 min
Lab File: VD063168.D
Acq: 22 Jul 2019 10:53

Tgt Ion:104 Resp: 1031800
Ion Ratio Lower Upper
104 100
78 49.3 41.1 61.7
103 48.1 37.0 55.6



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





#71

Bromoform

Concen: 59.281 ug/l

RT: 13.24 min Scan# 1200

Delta R.T. 0.01 min

Lab File: VD063168.D

Acq: 22 Jul 2019 10:53

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

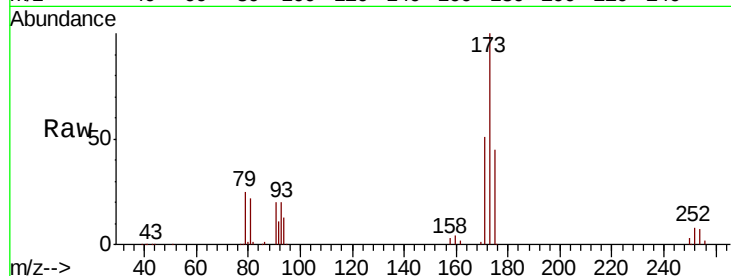
Tot Ion:173 Resp: 385229

Ion Ratio Lower Upper

173 100

175 45.3 23.4 70.2

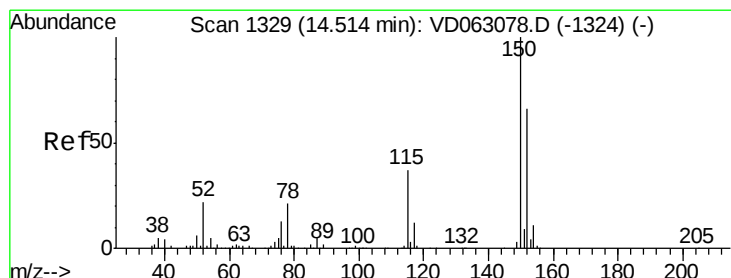
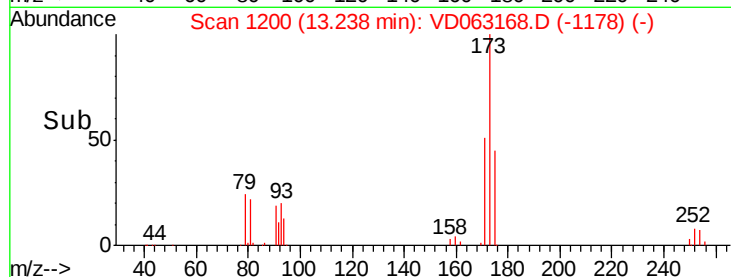
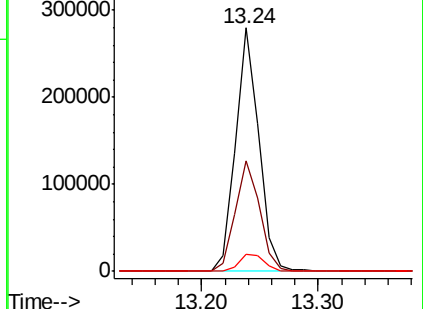
254 7.1 5.4 8.0



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: 14.52 min Scan# 1330

Delta R.T. 0.00 min

Lab File: VD063168.D

Acq: 22 Jul 2019 10:53

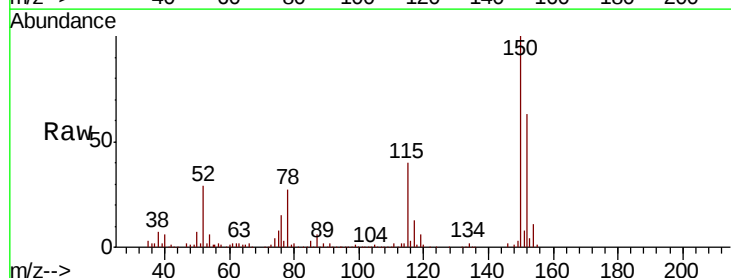
Tgt Ion:152 Resp: 455777

Ion Ratio Lower Upper

152 100

115 63.1 28.9 86.8

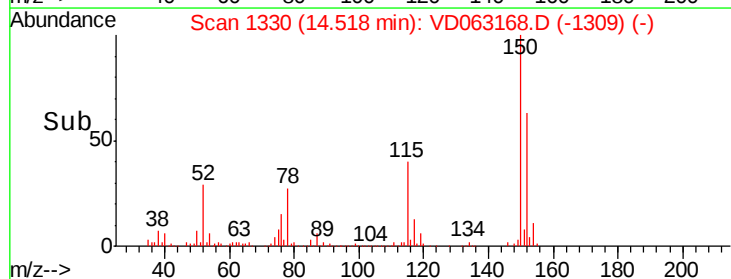
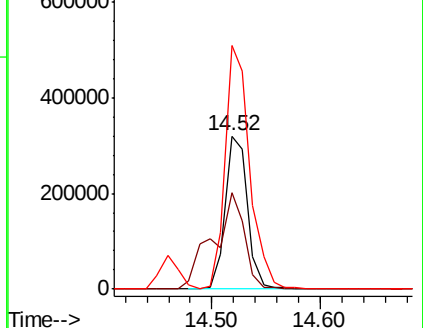
150 158.8 0.0 313.8

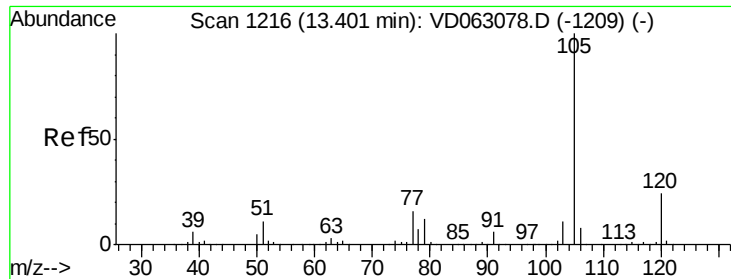


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 115.00 (114.70 to 115.70): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 50.661 ug/l

RT: 13.41 min Scan# 1217

Delta R.T. 0.00 min

Lab File: VD063168.D

Acq: 22 Jul 2019 10:53

Instrument :

MSVOA_D

ClientSampleId :

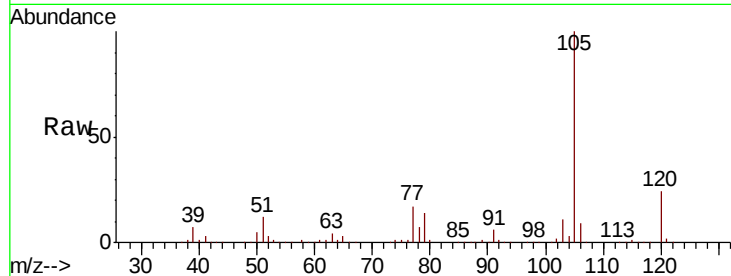
VSTDCCC050

Tot Ion:105 Resp: 1783186

Ion Ratio Lower Upper

105 100

120 23.7 12.2 36.4



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

13.41

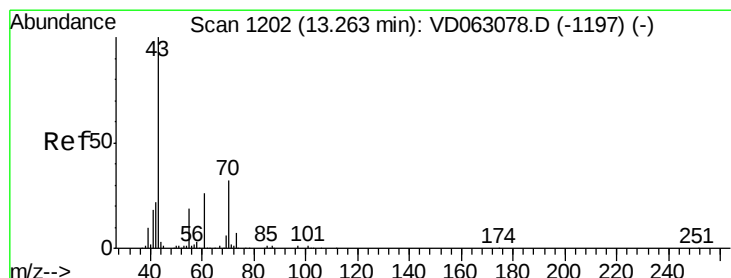
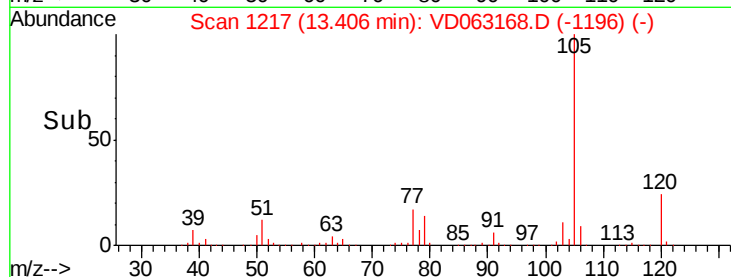
1500000

1000000

500000

0

Time--> 13.30 13.40 13.50



#74

N-ethyl acetate

Concen: 53.758 ug/l

RT: 13.27 min Scan# 1203

Delta R.T. 0.00 min

Lab File: VD063168.D

Acq: 22 Jul 2019 10:53

Tgt Ion: 43 Resp: 527715

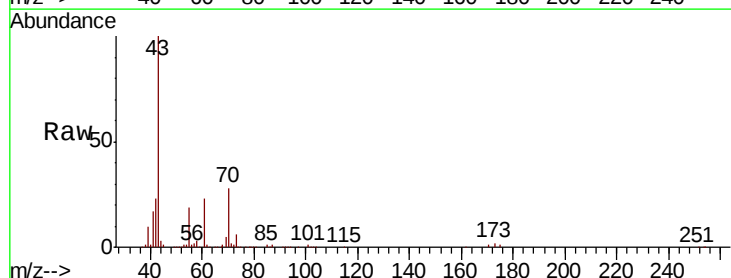
Ion Ratio Lower Upper

43 100

70 27.5 25.5 38.3

55 19.4 15.4 23.0

61 23.2 20.6 31.0



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

600000

500000

400000

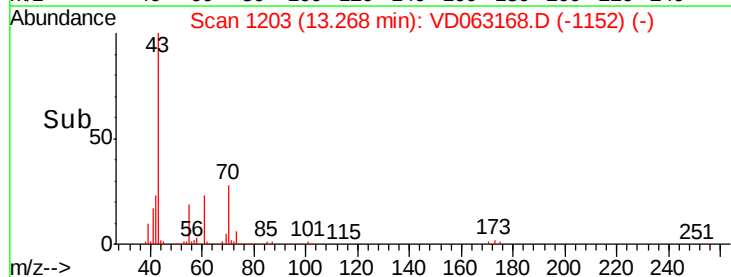
300000

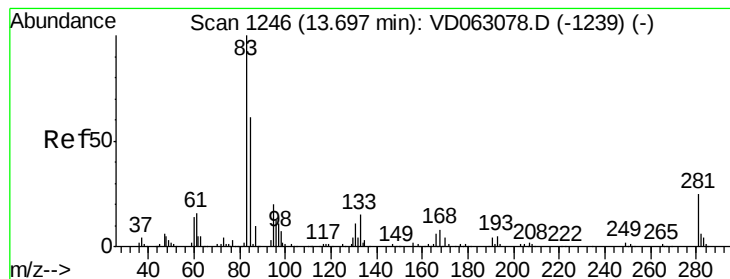
200000

100000

0

Time--> 13.20 13.30 13.40





#75

1,1,2,2-Tetrachloroethane

Concen: 52.743 ug/l

RT: 13.70 min Scan# 1247

Delta R.T. 0.00 min

Lab File: VD063168.D

Acq: 22 Jul 2019 10:53

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

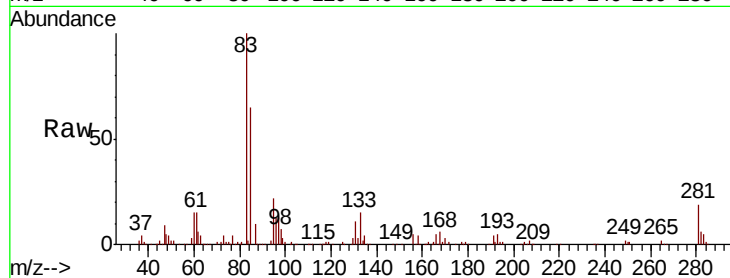
Tot Ion: 83 Resp: 337770

Ion Ratio Lower Upper

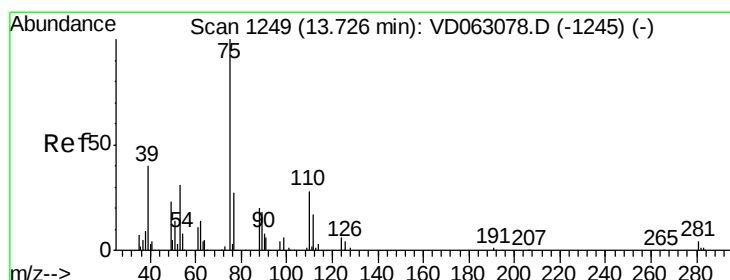
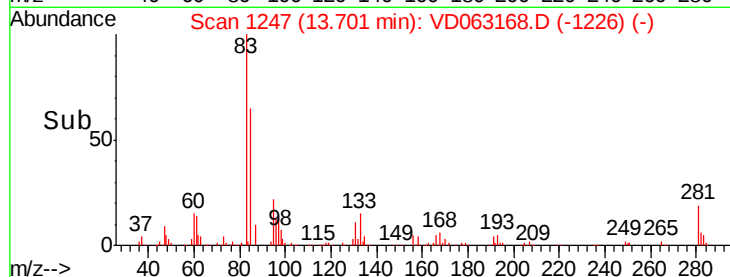
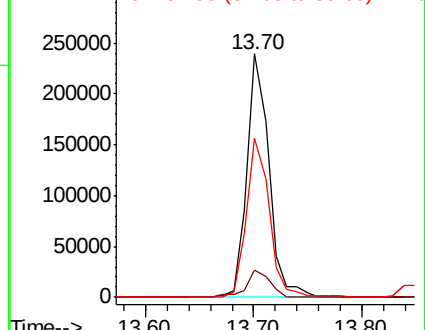
83 100

131 11.0 5.5 16.7

85 65.2 30.7 92.1



Abundance Ion 82.95 (82.65 to 83.65): VDC
Ion 130.90 (130.60 to 131.60): VDC
Ion 84.95 (84.65 to 85.65): VDC



#76

1,2,3-Trichloropropane

Concen: 54.776 ug/l

RT: 13.74 min Scan# 1251

Delta R.T. 0.01 min

Lab File: VD063168.D

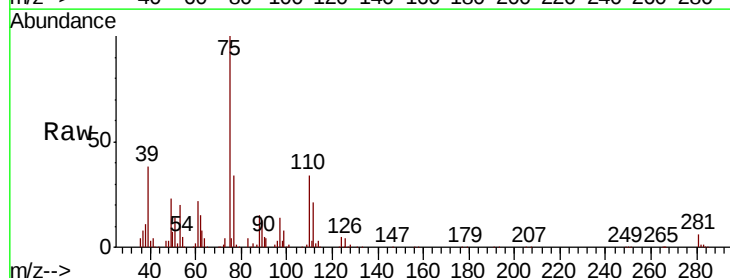
Acq: 22 Jul 2019 10:53

Tgt Ion: 75 Resp: 384044

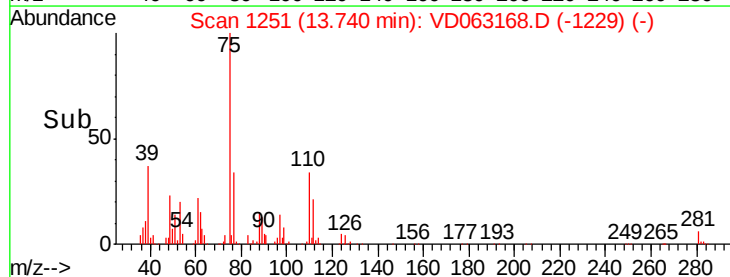
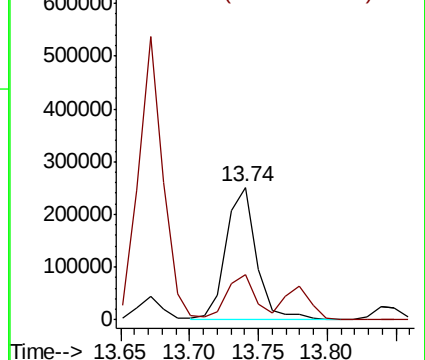
Ion Ratio Lower Upper

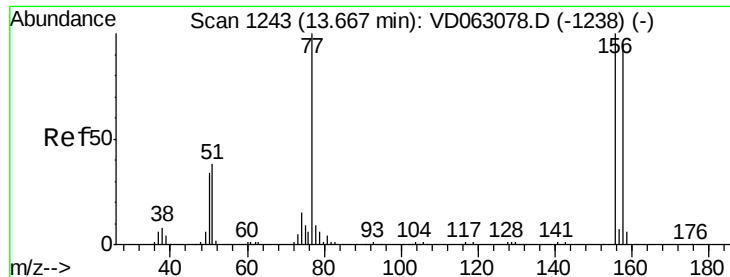
75 100

77 34.0 16.3 48.8



Abundance Ion 75.00 (74.70 to 75.70): VDC
Ion 76.95 (76.65 to 77.65): VDC





#77

Bromobenzene

Concen: 52.991 ug/l

RT: 13.67 min Scan# 1244

Delta R.T. 0.00 min

Lab File: VD063168.D

Acq: 22 Jul 2019 10:53

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

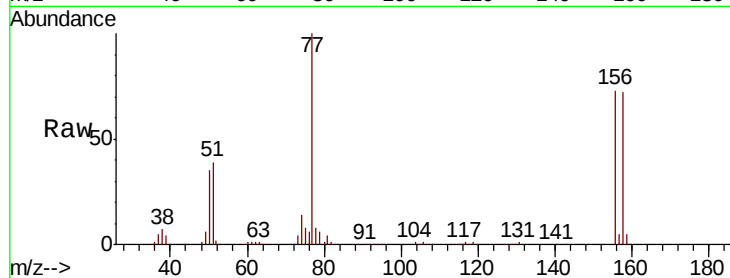
Tot Ion:156 Resp: 528941

Ion Ratio Lower Upper

156 100

77 136.5 50.2 150.7

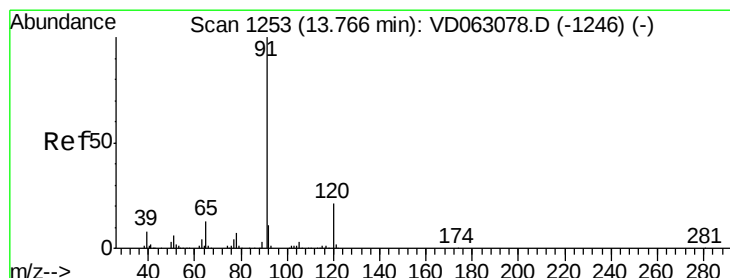
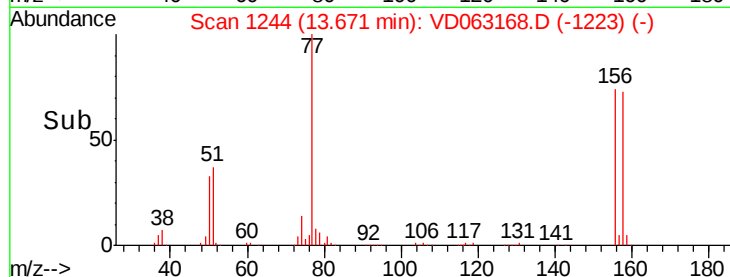
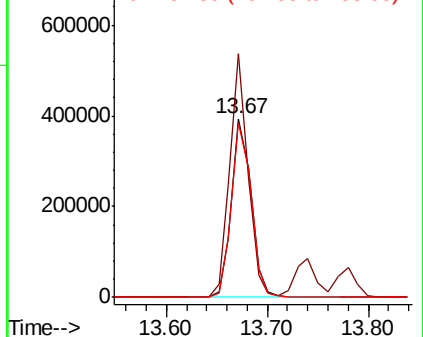
158 97.7 47.6 142.9



Abundance Ion 155.90 (155.60 to 156.60): V

Ion 76.95 (76.65 to 77.65): VDC

Ion 157.85 (157.55 to 158.55): V



#78

n-propylbenzene

Concen: 52.053 ug/l

RT: 13.78 min Scan# 1255

Delta R.T. 0.01 min

Lab File: VD063168.D

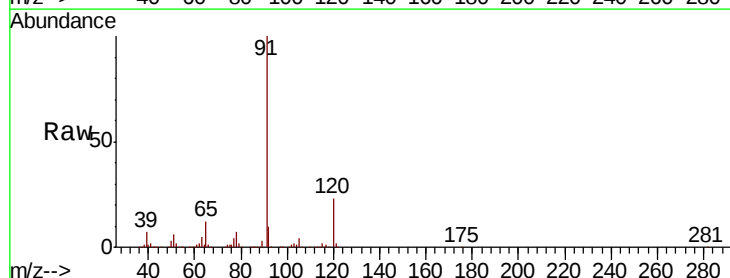
Acq: 22 Jul 2019 10:53

Tgt Ion: 91 Resp: 2108427

Ion Ratio Lower Upper

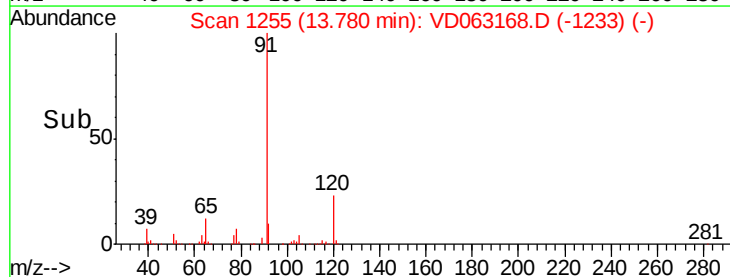
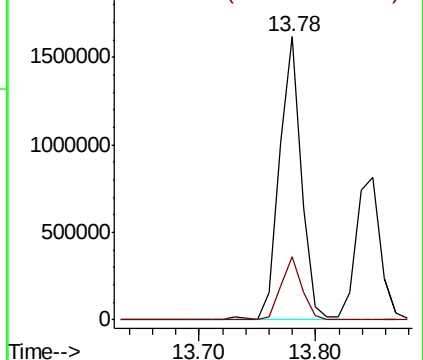
91 100

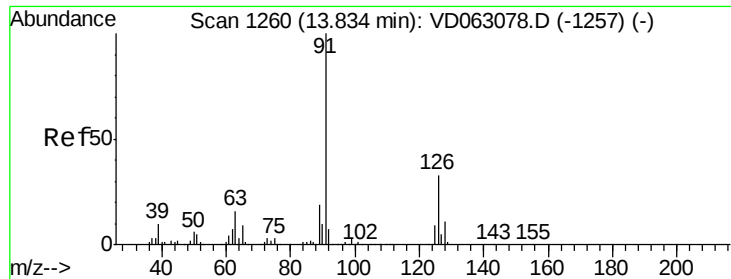
120 22.5 10.5 31.6



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 120.05 (119.75 to 120.75): V





#79

2-Chlorotoluene

Concen: 47.997 ug/l

RT: 13.85 min Scan# 1262

Delta R.T. 0.01 min

Lab File: VD063168.D

Acq: 22 Jul 2019 10:53

Instrument :

MSVOA_D

ClientSampleId :

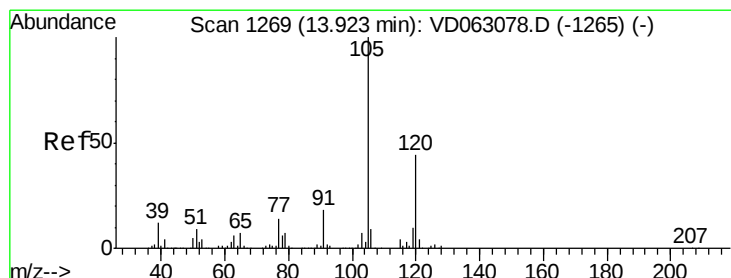
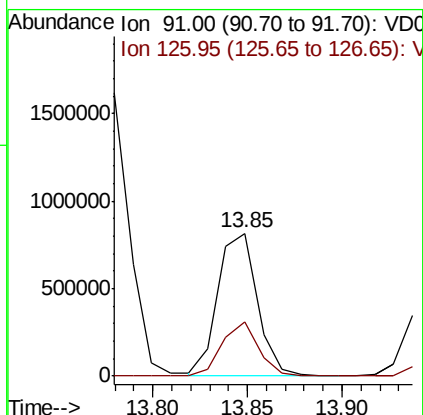
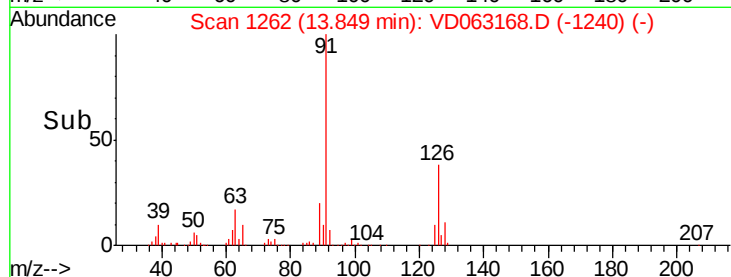
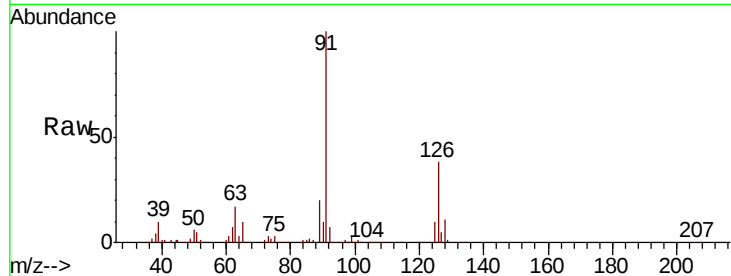
VSTDCCC050

Tot Ion: 91 Resp: 1175484

Ion Ratio Lower Upper

91 100

126 37.6 16.4 49.2



#80

1,3,5-Trimethylbenzene

Concen: 46.891 ug/l

RT: 13.94 min Scan# 1271

Delta R.T. 0.01 min

Lab File: VD063168.D

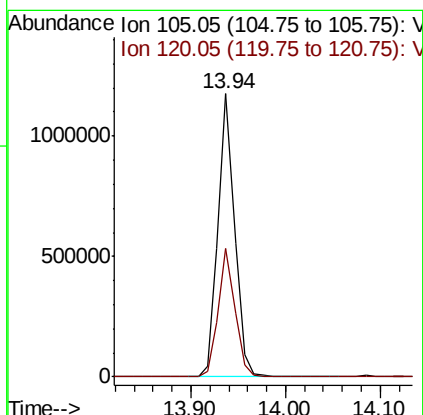
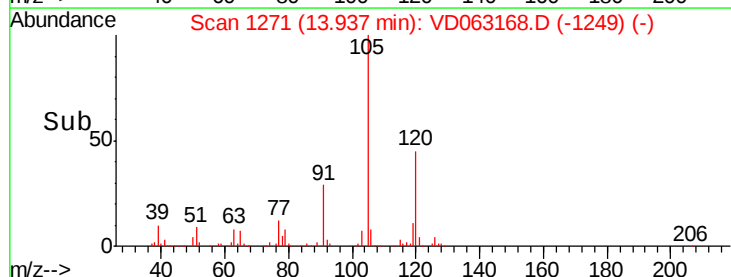
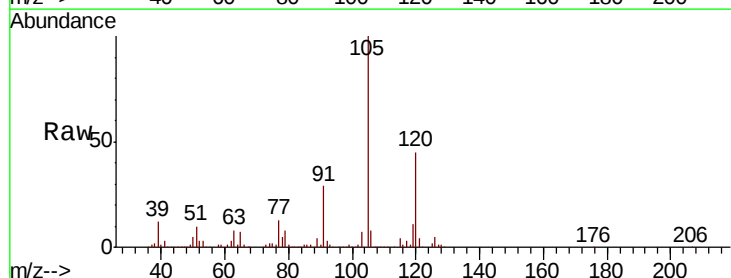
Acq: 22 Jul 2019 10:53

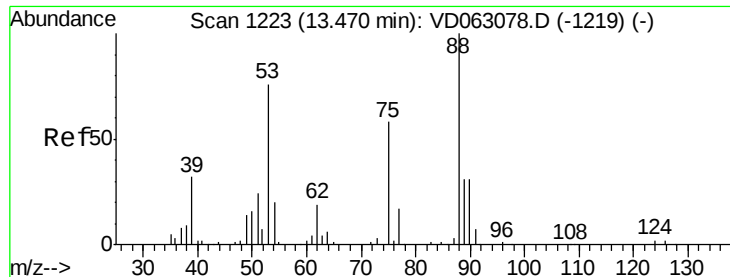
Tgt Ion:105 Resp: 1438490

Ion Ratio Lower Upper

105 100

120 45.2 21.8 65.4





#81

trans-1,4-Dichloro-2-butene

Concen: 58.584 ug/l

RT: 13.47 min Scan# 1224

Delta R.T. 0.00 min

Lab File: VD063168.D

Acq: 22 Jul 2019 10:53

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

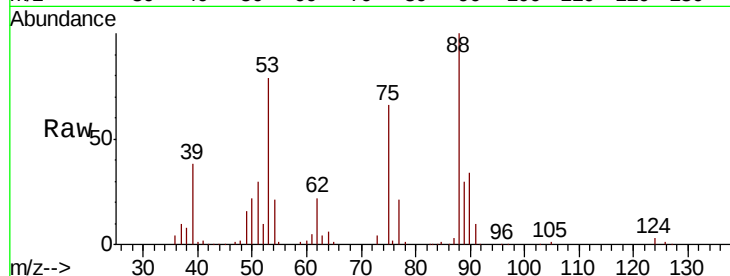
Tot Ion: 75 Resp: 108163

Ion Ratio Lower Upper

75 100

53 118.9 104.4 156.6

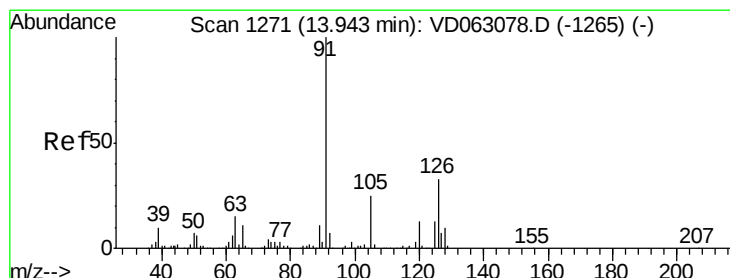
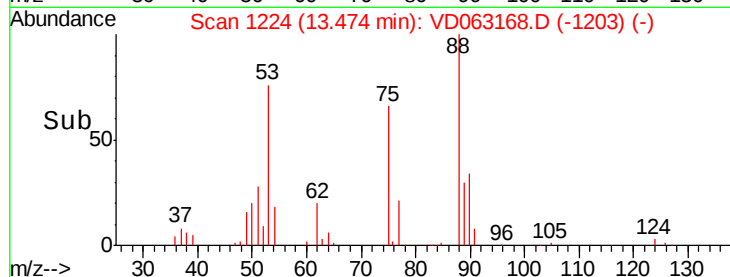
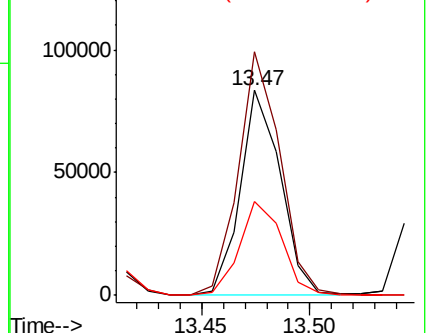
89 45.7 43.1 64.7



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC



#82

4-Chlorotoluene

Concen: 50.098 ug/l

RT: 13.95 min Scan# 1272

Delta R.T. 0.00 min

Lab File: VD063168.D

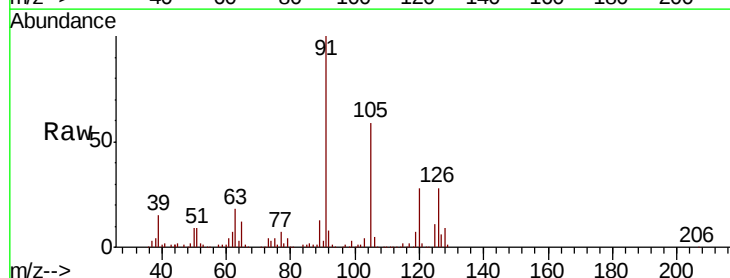
Acq: 22 Jul 2019 10:53

Tgt Ion: 91 Resp: 1432732

Ion Ratio Lower Upper

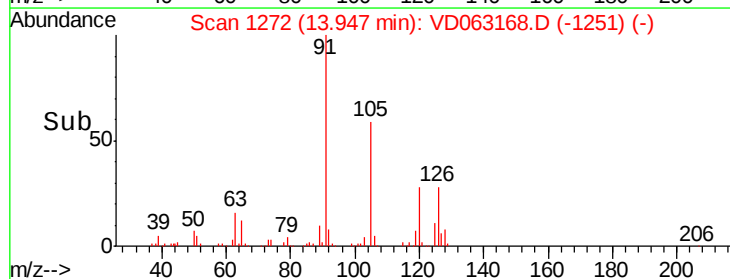
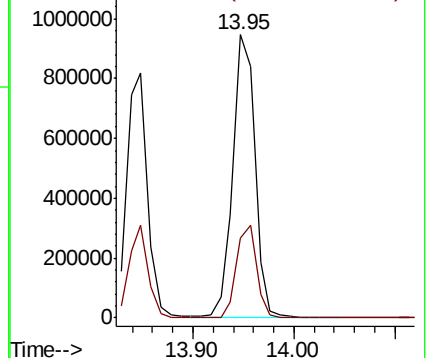
91 100

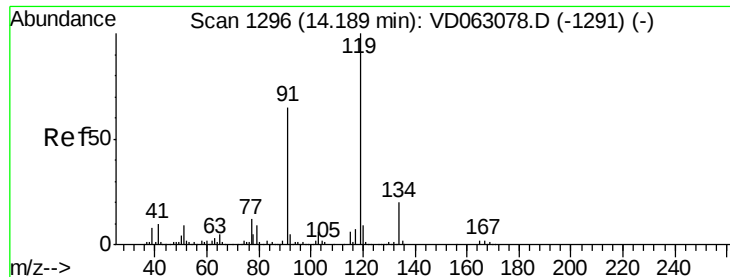
126 28.4 16.7 50.1



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 125.95 (125.65 to 126.65): V





#83

tert-Butylbenzene

Concen: 48.743 ug/l

RT: 14.19 min Scan# 1297

Delta R.T. 0.00 min

Lab File: VD063168.D

Acq: 22 Jul 2019 10:53

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

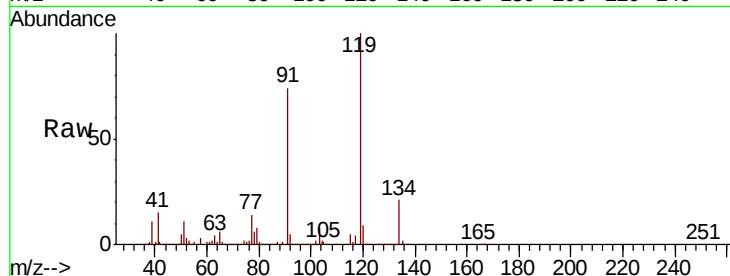
Tot Ion:119 Resp: 1690740

Ion Ratio Lower Upper

119 100

91 74.1 32.4 97.2

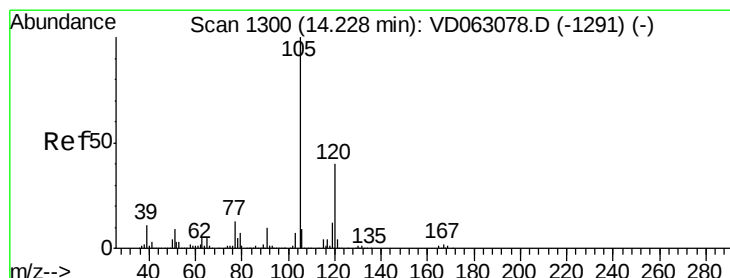
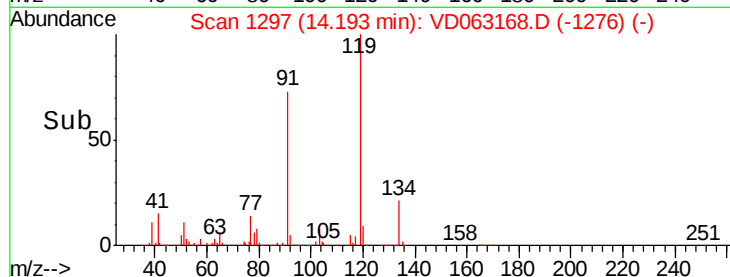
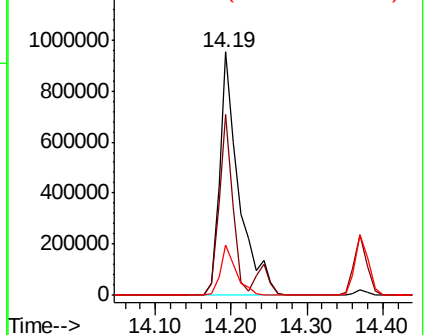
134 20.9 10.2 30.6



Abundance Ion 119.05 (118.75 to 119.75): V

Ion 91.00 (90.70 to 91.70): V

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 48.116 ug/l

RT: 14.24 min Scan# 1302

Delta R.T. 0.01 min

Lab File: VD063168.D

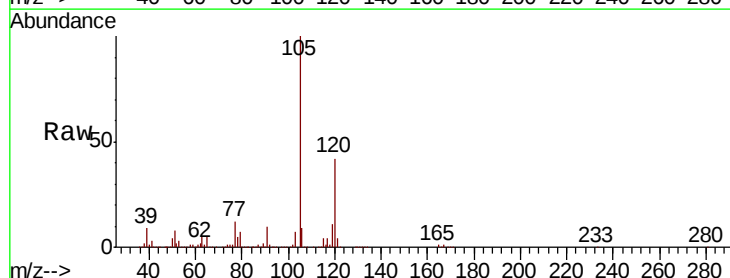
Acq: 22 Jul 2019 10:53

Tgt Ion:105 Resp: 1471564

Ion Ratio Lower Upper

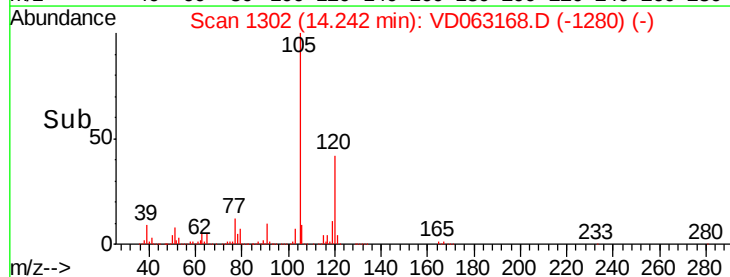
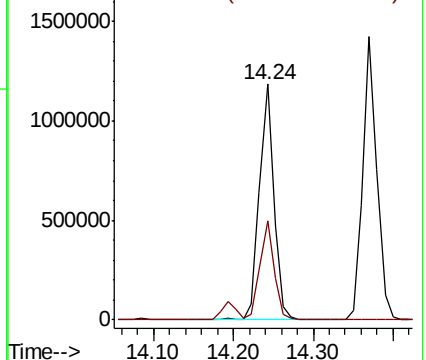
105 100

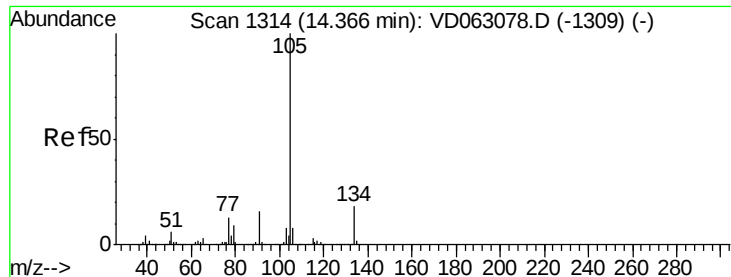
120 41.9 20.2 60.6



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V





#85

sec-Butylbenzene

Concen: 47.347 ug/l

RT: 14.37 min Scan# 1315

Delta R.T. 0.00 min

Lab File: VD063168.D

Acq: 22 Jul 2019 10:53

Instrument :

MSVOA_D

ClientSampleId :

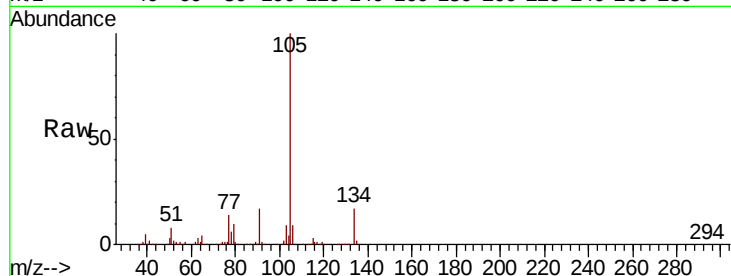
VSTDCCC050

Tot Ion:105 Resp: 1744911

Ion Ratio Lower Upper

105 100

134 16.5 8.9 26.8



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 134.10 (133.80 to 134.80): V

1500000

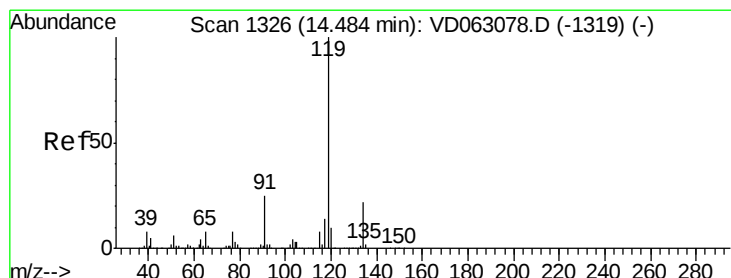
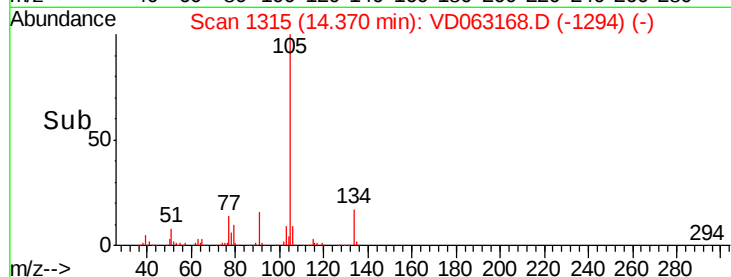
1000000

500000

0

14.30 14.40 14.50

Time-->



#86

p-Isopropyltoluene

Concen: 51.909 ug/l

RT: 14.50 min Scan# 1328

Delta R.T. 0.01 min

Lab File: VD063168.D

Acq: 22 Jul 2019 10:53

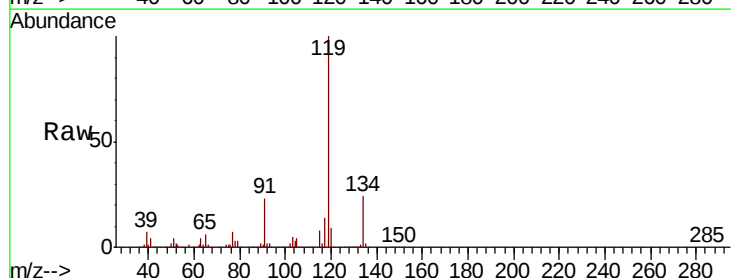
Tgt Ion:119 Resp: 1784636

Ion Ratio Lower Upper

119 100

134 24.1 10.8 32.4

91 23.4 12.5 37.5



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

1500000

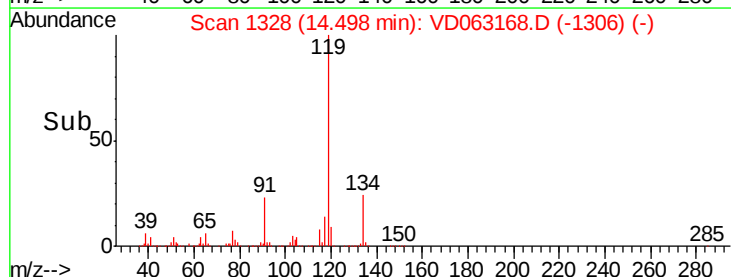
1000000

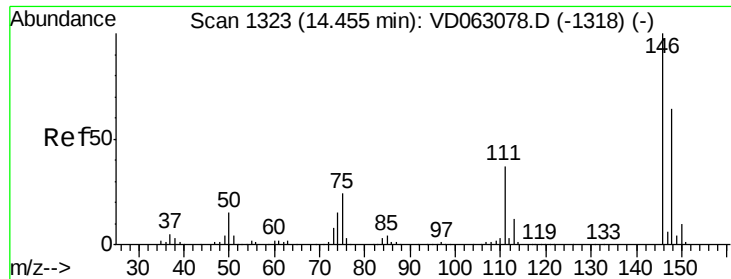
500000

0

14.40 14.50 14.60

Time-->

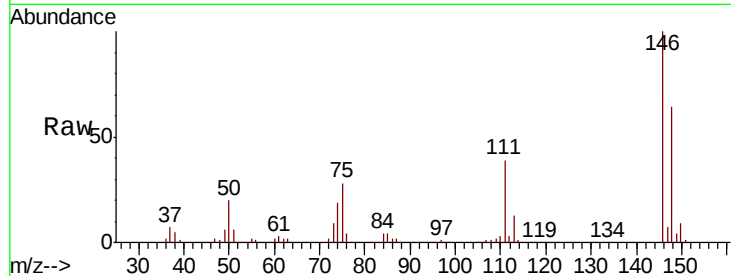




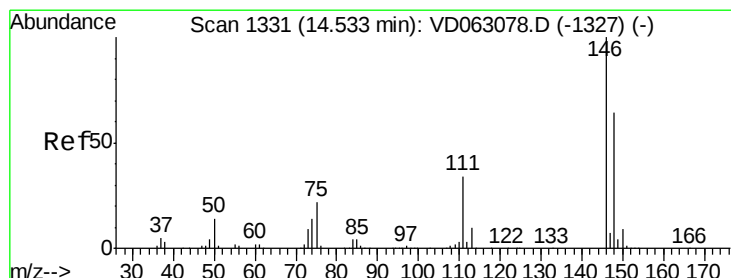
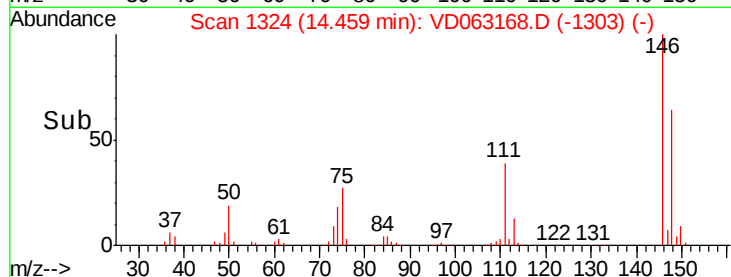
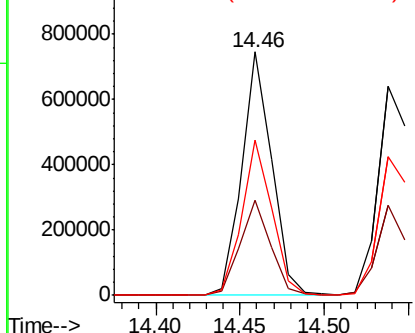
#87
 1,3-Dichlorobenzene
 Concen: 51.723 ug/l
 RT: 14.46 min Scan# 1324
 Delta R.T. 0.00 min
 Lab File: VD063168.D
 Acq: 22 Jul 2019 10:53

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.2	18.6	55.6
148	63.6	32.0	96.0

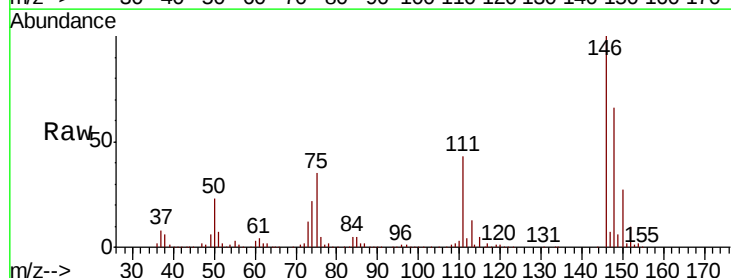


Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

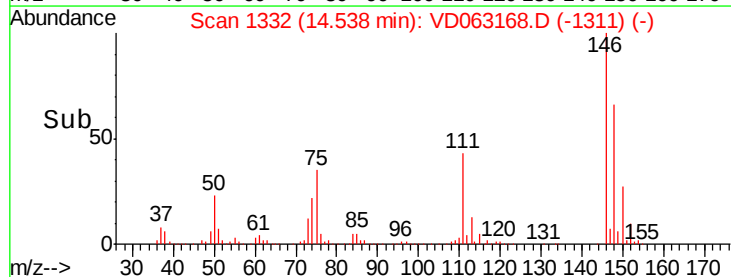
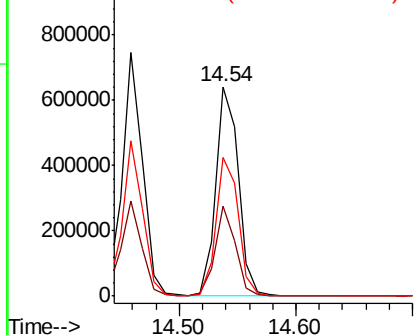


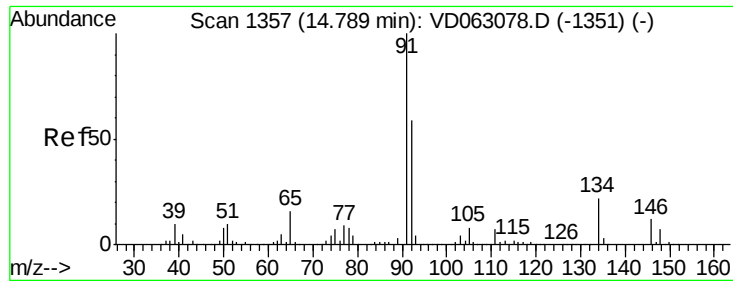
#88
 1,4-Dichlorobenzene
 Concen: 50.497 ug/l
 RT: 14.54 min Scan# 1332
 Delta R.T. 0.00 min
 Lab File: VD063168.D
 Acq: 22 Jul 2019 10:53

Tgt Ion	Ratio	Lower	Upper
146	100		
111	43.0	17.0	51.0
148	66.4	32.0	96.2



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

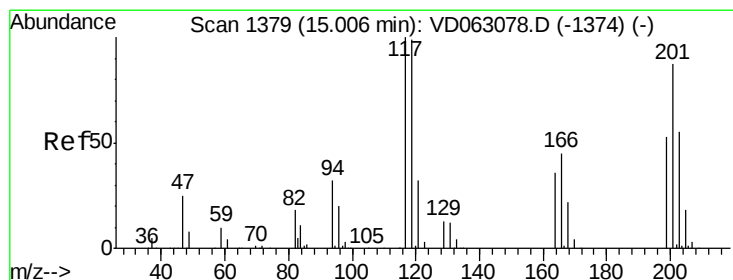
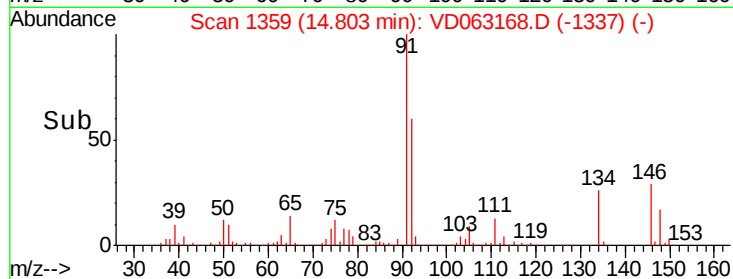
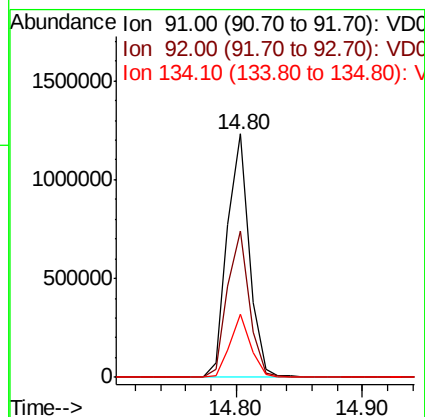
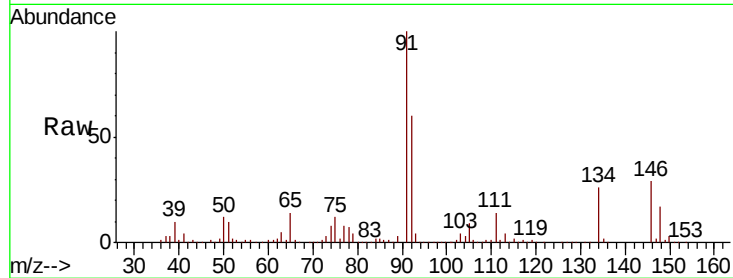




#89
n-Butylbenzene
Concen: 47.131 ug/l
RT: 14.80 min Scan# 1359
Delta R.T. 0.01 min
Lab File: VD063168.D
Acq: 22 Jul 2019 10:53

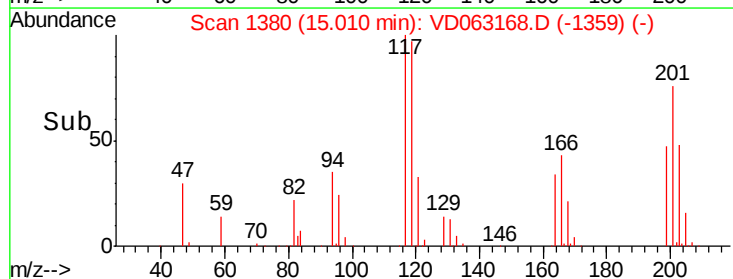
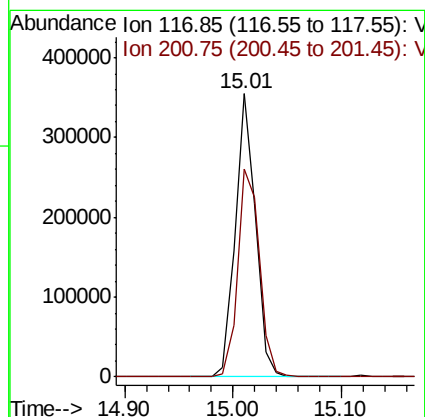
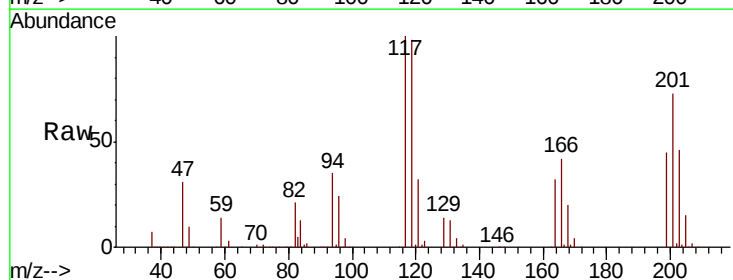
Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

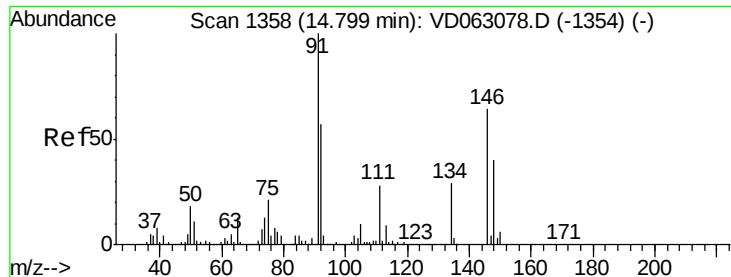
Tot Ion: 91 Resp: 1493522
Ion Ratio Lower Upper
91 100
92 60.0 29.4 88.3
134 26.1 11.3 33.8



#90
Hexachloroethane
Concen: 50.300 ug/l
RT: 15.01 min Scan# 1380
Delta R.T. 0.00 min
Lab File: VD063168.D
Acq: 22 Jul 2019 10:53

Tgt Ion: 117 Resp: 462294
Ion Ratio Lower Upper
117 100
201 73.2 43.4 130.1

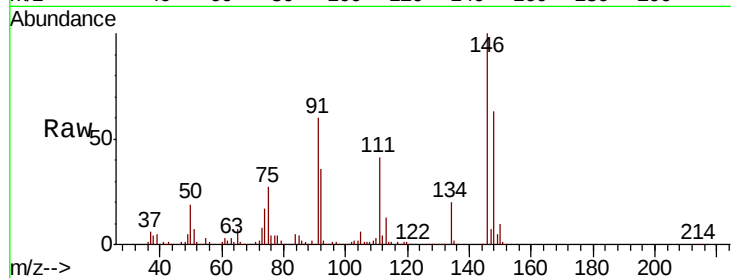




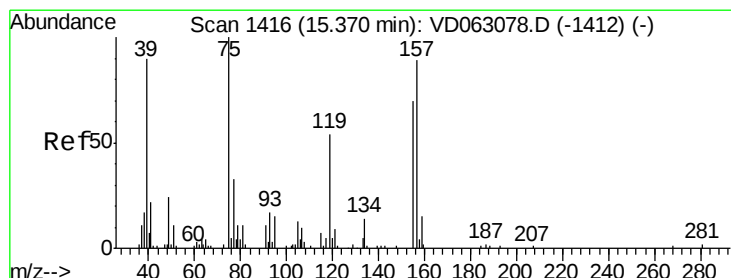
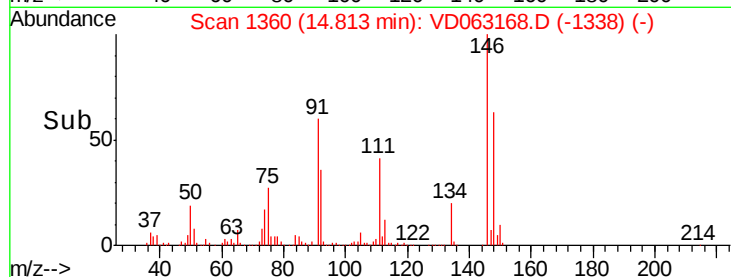
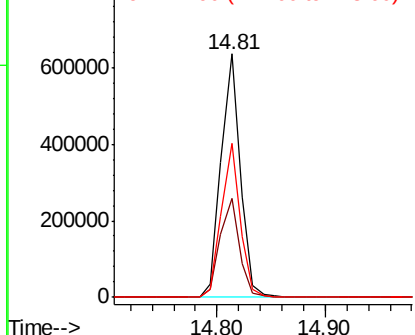
#91
 1,2-Dichlorobenzene
 Concen: 49.541 ug/l
 RT: 14.81 min Scan# 1360
 Delta R.T. 0.01 min
 Lab File: VD063168.D
 Acq: 22 Jul 2019 10:53

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion:146 Resp: 786364
 Ion Ratio Lower Upper
 146 100
 111 40.7 21.9 65.5
 148 63.1 31.5 94.5

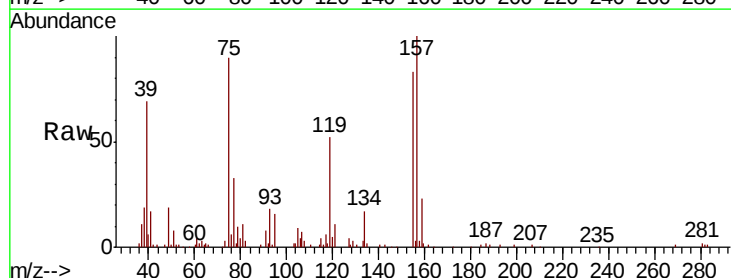


Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

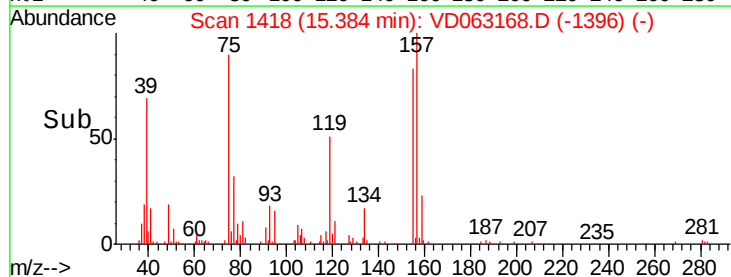
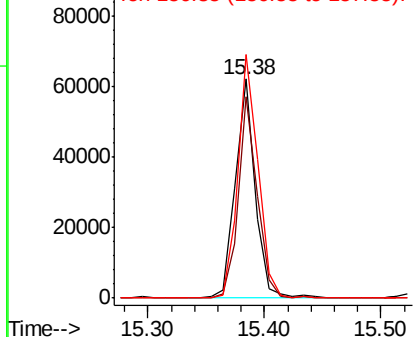


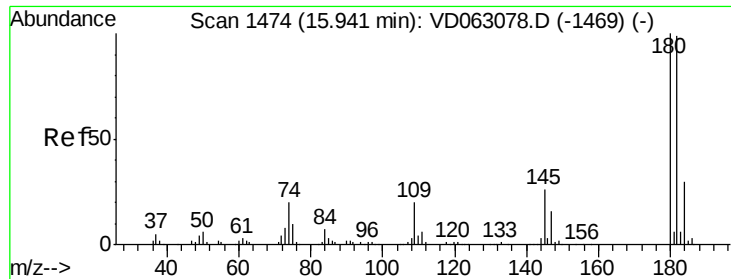
#92
 1,2-Dibromo-3-Chloropropane
 Concen: 59.645 ug/l
 RT: 15.38 min Scan# 1418
 Delta R.T. 0.01 min
 Lab File: VD063168.D
 Acq: 22 Jul 2019 10:53

Tgt Ion: 75 Resp: 73216
 Ion Ratio Lower Upper
 75 100
 155 91.8 34.8 104.3
 157 111.1 44.7 134.1



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

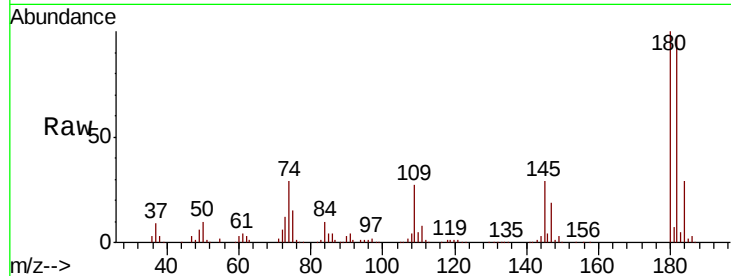




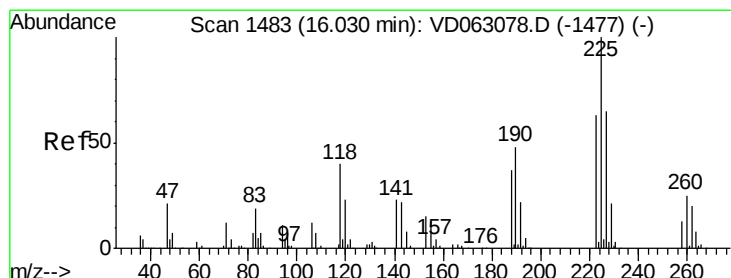
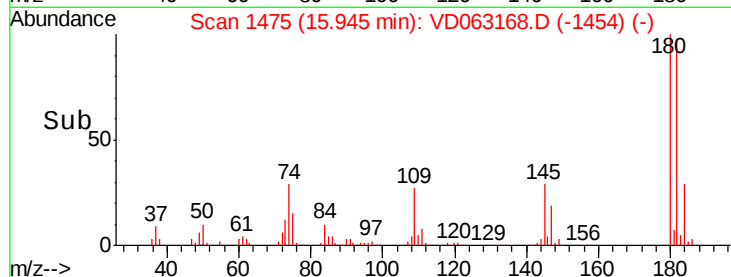
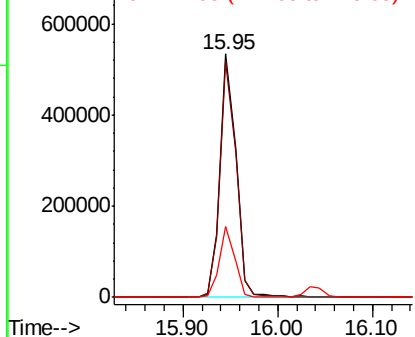
#93
 1,2,4-Trichlorobenzene
 Concen: 53.028 ug/l
 RT: 15.95 min Scan# 1475
 Delta R.T. 0.00 min
 Lab File: VD063168.D
 Acq: 22 Jul 2019 10:53

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion:180 Resp: 632373
 Ion Ratio Lower Upper
 180 100
 182 97.1 49.5 148.3
 145 29.3 12.8 38.4

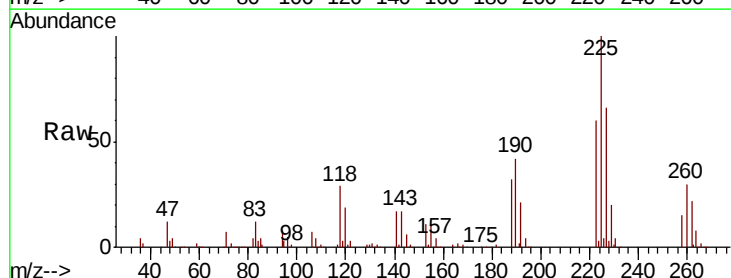


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V

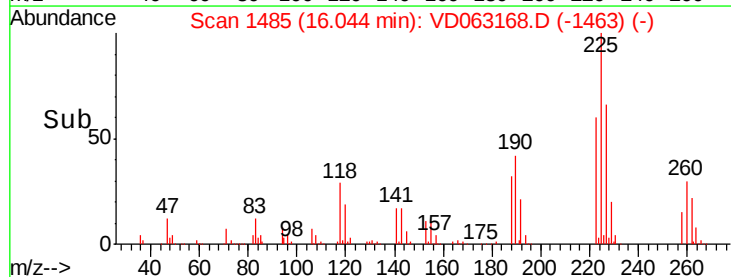
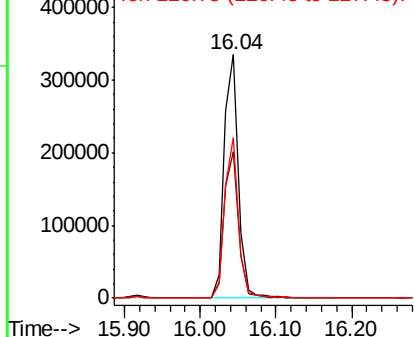


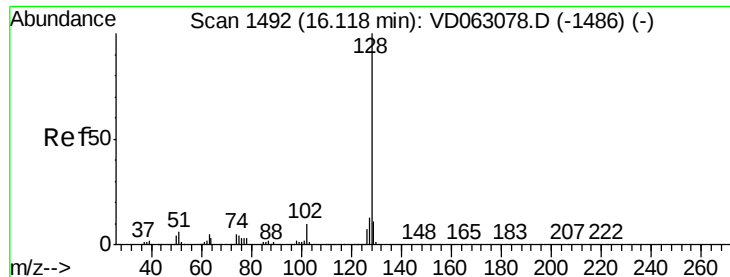
#94
 Hexachlorobutadiene
 Concen: 49.781 ug/l
 RT: 16.04 min Scan# 1485
 Delta R.T. 0.01 min
 Lab File: VD063168.D
 Acq: 22 Jul 2019 10:53

Tgt Ion:225 Resp: 437578
 Ion Ratio Lower Upper
 225 100
 223 60.3 31.4 94.2
 227 65.8 32.6 97.8



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

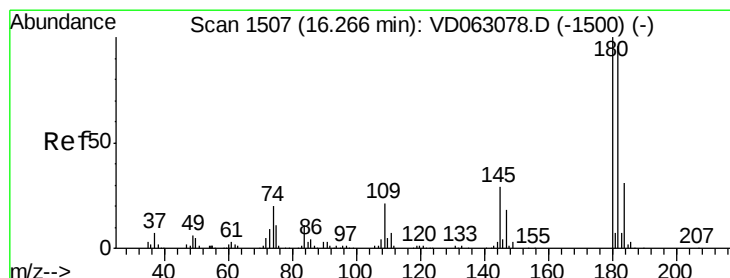
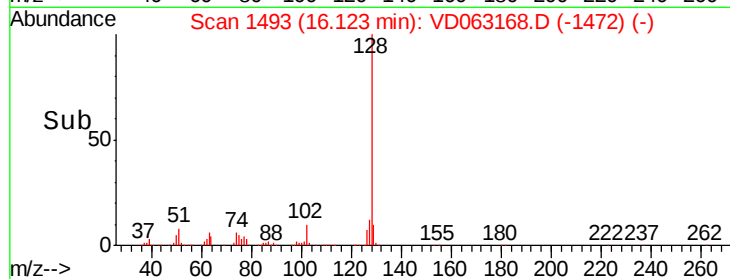
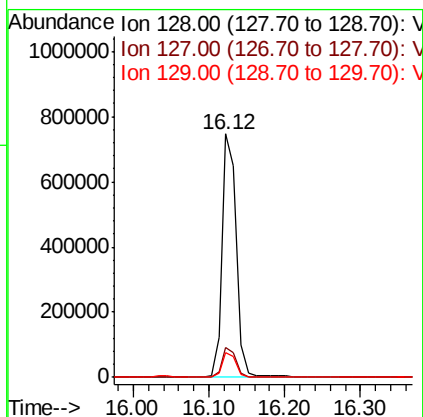
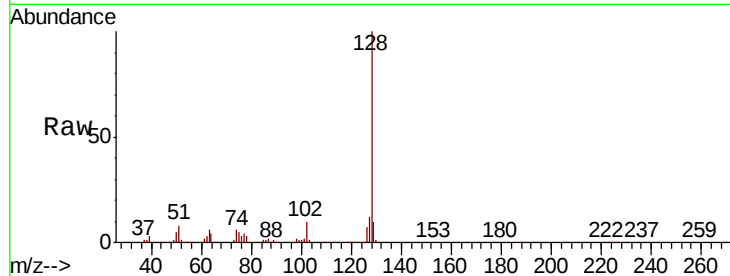




#95
Naphthalene
Concen: 56.763 ug/l
RT: 16.12 min Scan# 1493
Delta R.T. 0.00 min
Lab File: VD063168.D
Acq: 22 Jul 2019 10:53

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion:128 Resp: 990175
Ion Ratio Lower Upper
128 100
127 12.5 10.7 16.1
129 10.4 8.7 13.1



#96
1,2,3-Trichlorobenzene
Concen: 54.050 ug/l
RT: 16.27 min Scan# 1508
Delta R.T. 0.00 min
Lab File: VD063168.D
Acq: 22 Jul 2019 10:53

Tgt Ion:180 Resp: 518517
Ion Ratio Lower Upper
180 100
182 96.5 47.9 143.6
145 33.1 14.4 43.4

