

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD092018\
 Data File : VD060061.D
 Acq On : 20 Sep 2018 21:25
 Operator : VA/AP
 Sample : J5017-09MSD
 Misc : 5.10/5ml/MSVOA D/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 RA-091918-S-NW-061MSD

Manual Integrations
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Quant Time: Sep 21 01:54:33 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D091318S.M
 Quant Title : SW846 8260
 QLast Update : Thu Sep 13 16:17:40 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.38	168	1113168	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	7.42	114	1646416	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.28	117	1160145	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.36	152	447296	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.76	65	516828	59.54	ug/l	0.00
Spiked Amount	50.000		Recovery	=	119.08%	
35) Dibromofluoromethane	6.30	113	703754	54.71	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.42%	
50) Toluene-d8	9.44	98	1632649	45.80	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.60%	
62) 4-Bromofluorobenzene	12.42	95	563174	41.35	ug/l	0.00
Spiked Amount	50.000		Recovery	=	82.70%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.57	85	569858	48.497	ug/l	99
3) Chloromethane	1.74	50	568004	54.724	ug/l	99
4) Vinyl Chloride	1.84	62	461060	55.257	ug/l	99
5) Bromomethane	2.13	94	100798	102.058	ug/l	98
6) Chloroethane	2.24	64	158327	84.875	ug/l	97
7) Trichlorofluoromethane	2.49	101	508347	55.337	ug/l	99
8) Diethyl Ether	2.80	74	121063	61.995	ug/l	97
9) 1,1,2-Trichlorotrifluoroet	3.07	101	269704	46.559	ug/l	98
10) Methyl Iodide	3.23	142	399062	65.045	ug/l	91
11) Tert butyl alcohol	3.94	59	184274	263.076	ug/l	98
12) 1,1-Dichloroethene	3.05	96	265176	57.896	ug/l	95
13) Acrolein	2.96	56	62143	143.262	ug/l	93
14) Allyl chloride	3.51	41	561816	58.163	ug/l	98
15) Acrylonitrile	4.06	53	748533	283.102	ug/l	98
16) Acetone	3.14	43	530456	316.499	ug/l	96
17) Carbon Disulfide	3.29	76	851192	53.937	ug/l	99
18) Methyl Acetate	3.53	43	328227	96.296	ug/l	100
19) Methyl tert-butyl Ether	4.09	73	1192786	56.362	ug/l	100
20) Methylene Chloride	3.70	84	726650	62.774	ug/l	95
21) trans-1,2-Dichloroethene	4.07	96	652387	54.278	ug/l	99
22) Diisopropyl ether	4.83	45	2533845	57.508	ug/l	96
23) Vinyl Acetate	4.78	43	5780931	231.593	ug/l	100
24) 1,1-Dichloroethane	4.73	63	1123212	56.806	ug/l	99
25) 2-Butanone	5.60	43	1211874	267.955	ug/l	100
26) 2,2-Dichloropropane	5.57	77	797612	51.886	ug/l	100
27) cis-1,2-Dichloroethene	5.57	96	724065	57.591	ug/l	99
28) Bromochloromethane	5.90	49	555262	58.421	ug/l	99
29) Tetrahydrofuran	5.93	42	645738	266.233	ug/l	98
30) Chloroform	6.08	83	1120319	55.872	ug/l	99
31) Cyclohexane	6.35	56	609990	31.640	ug/l	99
32) 1,1,1-Trichloroethane	6.27	97	848821	51.039	ug/l	98
36) 1,1-Dichloropropene	6.50	75	711355	43.496	ug/l	99
37) Ethyl Acetate	5.68	43	516902	45.961	ug/l	98
38) Carbon Tetrachloride	6.47	117	631350	41.354	ug/l	100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	8.02	83	393939	21.293	ug/l	100
40) Benzene	6.77	78	2119059	50.837	ug/l	100
41) Methacrylonitrile	5.89	41	264234m	44.857	ug/l	
42) 1,2-Dichloroethane	6.88	62	648464	51.810	ug/l	99
43) Isopropyl Acetate	8.33	43	698940	46.416	ug/l #	98
44) Trichloroethene	7.72	130	599969	46.586	ug/l	98
45) 1,2-Dichloropropane	8.09	63	571748	51.295	ug/l	100
46) Dibromomethane	8.20	93	384199	52.828	ug/l	95
47) Bromodichloromethane	8.47	83	795867	50.758	ug/l	100
48) Methyl methacrylate	8.22	41	458154	54.629	ug/l	98
49) 1,4-Dioxane	8.21	88	89026	1068.765	ug/l	96
51) 4-Methyl-2-Pentanone	9.33	43	2417071	243.073	ug/l	99
52) Toluene	9.53	92	1194547	44.708	ug/l	98
53) t-1,3-Dichloropropene	9.90	75	710400	48.578	ug/l	98
54) cis-1,3-Dichloropropene	9.08	75	874043	50.024	ug/l	99
55) 1,1,2-Trichloroethane	10.16	97	442818	47.734	ug/l	98
56) Ethyl methacrylate	10.02	69	510784	49.641	ug/l	99
57) 1,3-Dichloropropane	10.37	76	697024	50.902	ug/l	98
58) 2-Chloroethyl Vinyl ether	8.90	63	1374554	276.639	ug/l	98
59) 2-Hexanone	10.48	43	1738336	244.729	ug/l	99
60) Dibromochloromethane	10.63	129	541825	47.986	ug/l	99
61) 1,2-Dibromoethane	10.74	107	476660	49.766	ug/l	98
64) Tetrachloroethene	10.23	164	412514	40.301	ug/l	98
65) Chlorobenzene	11.30	112	1258140	50.441	ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.40	131	462674	54.997	ug/l	99
67) Ethyl Benzene	11.41	91	1851850	46.135	ug/l	98
68) m/p-Xylenes	11.55	106	1375048	92.755	ug/l	94
69) o-Xylene	11.92	106	676543	46.058	ug/l	97
70) Styrene	11.94	104	1215334	49.208	ug/l	99
71) Bromoform	12.10	173	388220	53.711	ug/l	98
73) Isopropylbenzene	12.27	105	1480084	50.453	ug/l	98
74) N-amyl acetate	12.12	43	872407	75.077	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.55	83	511750	76.897	ug/l	97
76) 1,2,3-Trichloropropane	12.58	75	501081	73.349	ug/l	100
77) Bromobenzene	12.53	156	547750	64.820	ug/l	90
78) n-propylbenzene	12.62	91	1706438	46.257	ug/l	95
79) 2-Chlorotoluene	12.69	91	1106087	53.122	ug/l	95
80) 1,3,5-Trimethylbenzene	12.78	105	1042170	46.350	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.33	75	147942	71.741	ug/l	93
82) 4-Chlorotoluene	12.80	91	1242693	54.285	ug/l	96
83) tert-Butylbenzene	13.04	119	1126328	43.239	ug/l	96
84) 1,2,4-Trimethylbenzene	13.09	105	1101828	45.920	ug/l	99
85) sec-Butylbenzene	13.21	105	1043743	33.755	ug/l	98
86) p-Isopropyltoluene	13.33	119	858729	34.337	ug/l	97
87) 1,3-Dichlorobenzene	13.30	146	748184	50.914	ug/l	98
88) 1,4-Dichlorobenzene	13.38	146	750091	50.325	ug/l	97
89) n-Butylbenzene	13.64	91	742234	28.889	ug/l	97
90) Hexachloroethane	13.84	117	187885	30.332	ug/l	78
91) 1,2-Dichlorobenzene	13.65	146	665758	57.563	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	14.22	75	63682	62.769	ug/l	73

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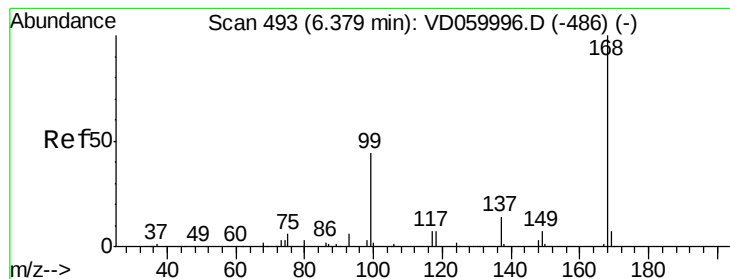
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.78	180	287864	27.489	ug/l	96
94) Hexachlorobutadiene	14.87	225	95039	13.720	ug/l	96
95) Naphthalene	14.96	128	695373	42.998	ug/l	98
96) 1,2,3-Trichlorobenzene	15.10	180	253018m	27.417	ug/l	

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 6.38 min Scan# 494

Delta R.T. 0.01 min

Lab File: VD060061.D

Acq: 20 Sep 2018 21:25

Instrument :

MSVOA_D

ClientSampleId :

RA-091918-S-NW-061MSD

Tot Ion:168 Resp: 1113168

Ion Ratio Lower Upper

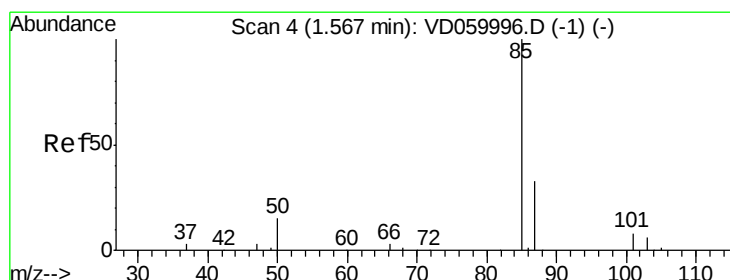
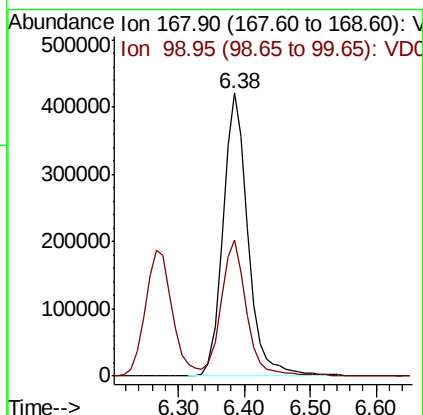
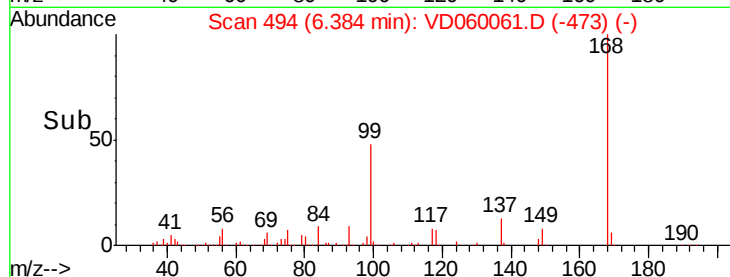
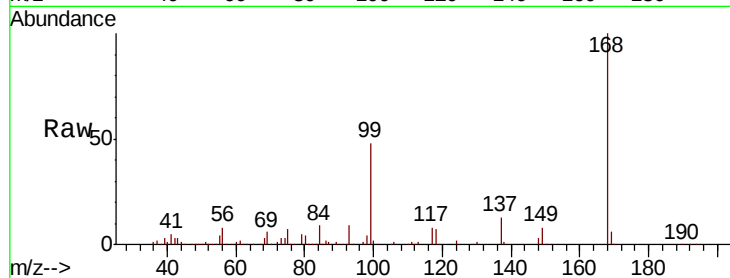
168 100

99 48.1 38.5 57.7

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#2

Dichlorodifluoromethane

Concen: 48.497 ug/l

RT: 1.57 min Scan# 5

Delta R.T. 0.01 min

Lab File: VD060061.D

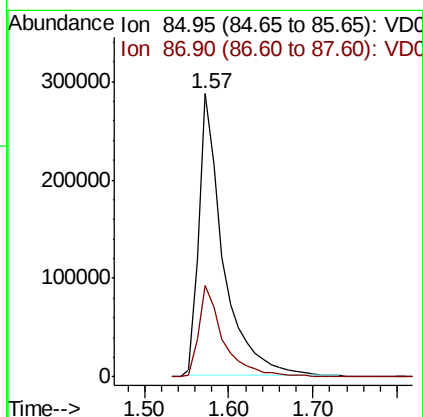
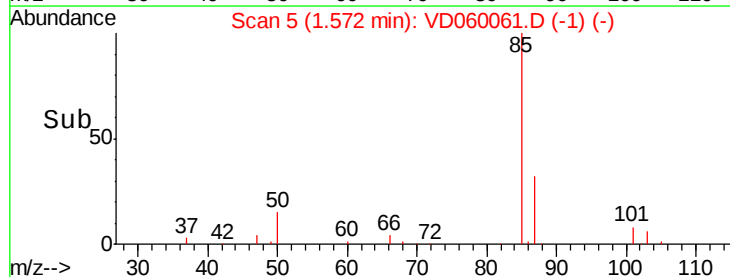
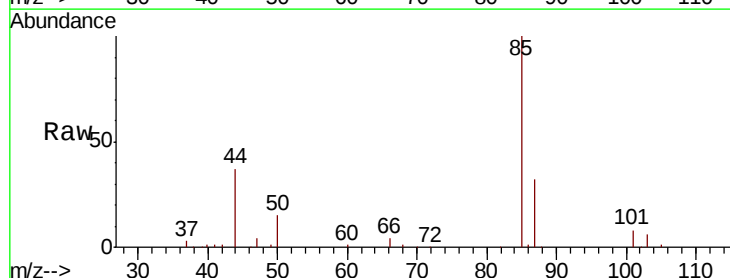
Acq: 20 Sep 2018 21:25

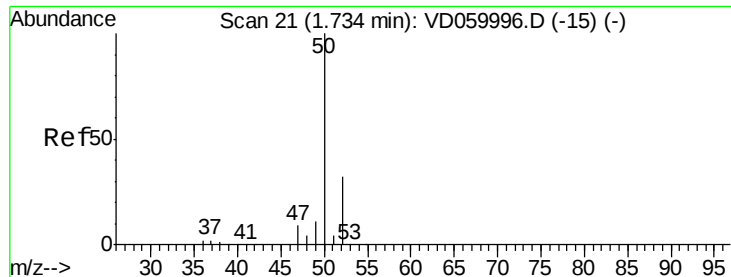
Tgt Ion: 85 Resp: 569858

Ion Ratio Lower Upper

85 100

87 32.3 16.4 49.1





#3

Chloromethane

Concen: 54.724 ug/l

RT: 1.74 min Scan# 22

Delta R.T. 0.01 min

Lab File: VD060061.D

Acq: 20 Sep 2018 21:25

Instrument :

MSVOA_D

ClientSampleId :

RA-091918-S-NW-061MSD

Tot Ion: 50 Resp: 568004

Ion Ratio Lower Upper

50 100

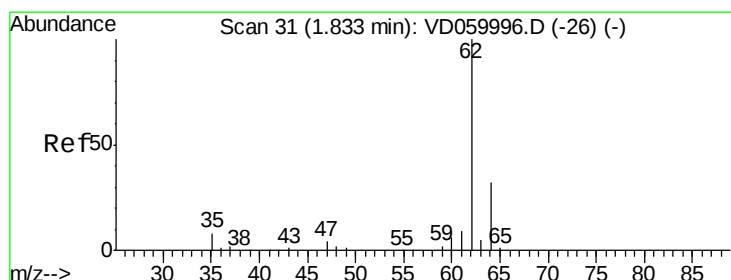
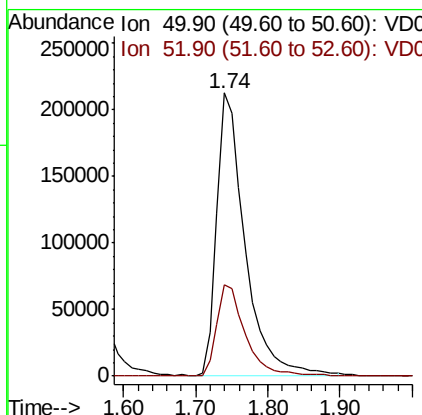
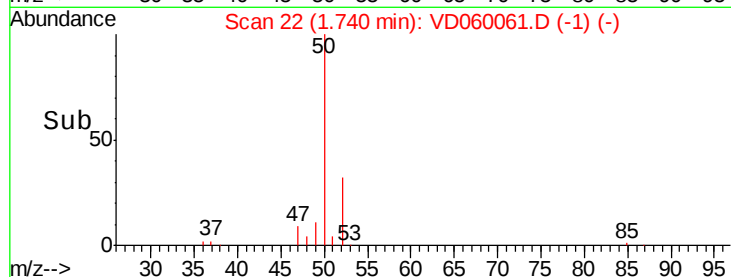
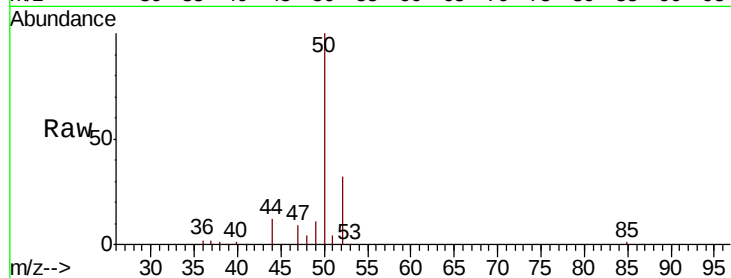
52 32.4 25.4 38.2

Manual Integrations

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#4

Vinyl Chloride

Concen: 55.257 ug/l

RT: 1.84 min Scan# 32

Delta R.T. 0.01 min

Lab File: VD060061.D

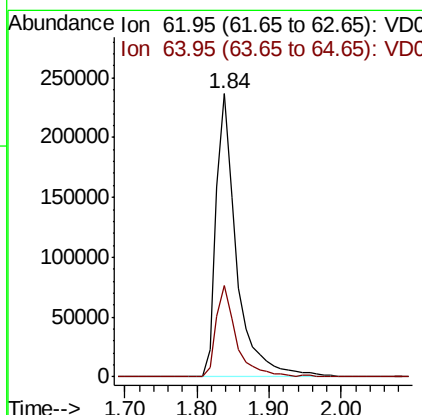
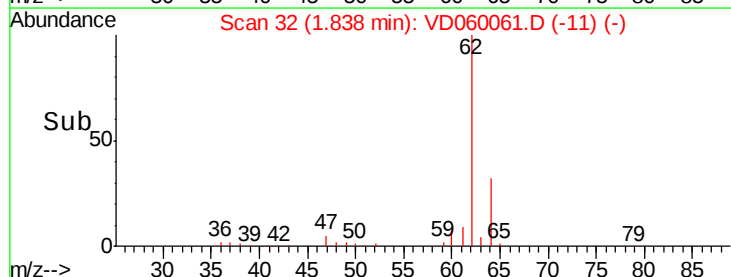
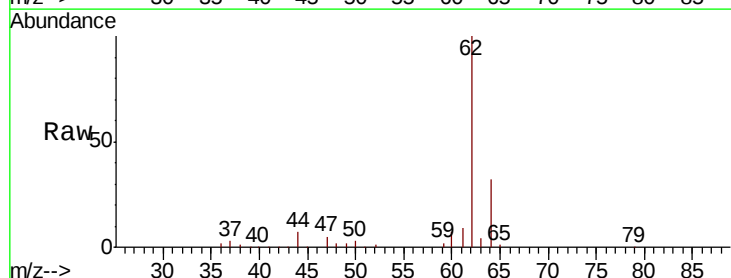
Acq: 20 Sep 2018 21:25

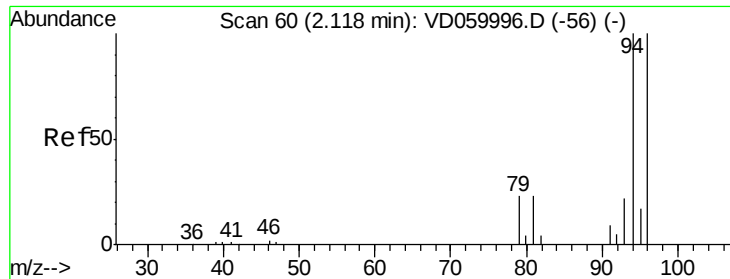
Tgt Ion: 62 Resp: 461060

Ion Ratio Lower Upper

62 100

64 32.4 25.5 38.3





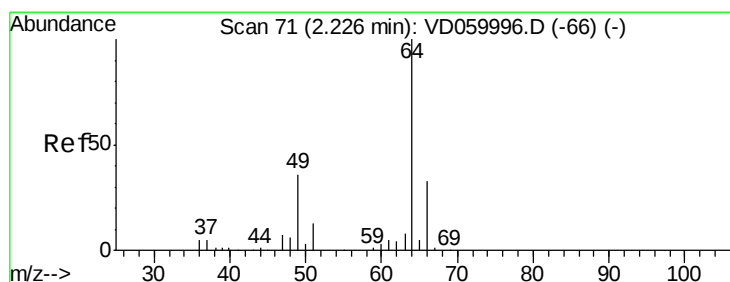
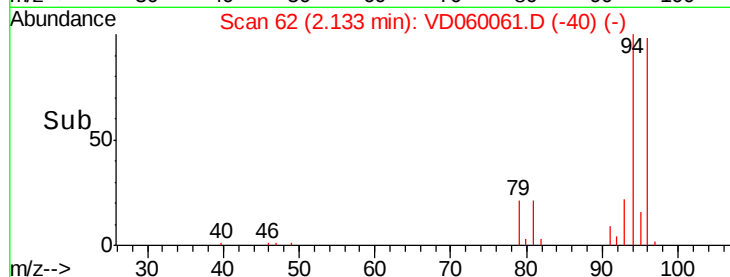
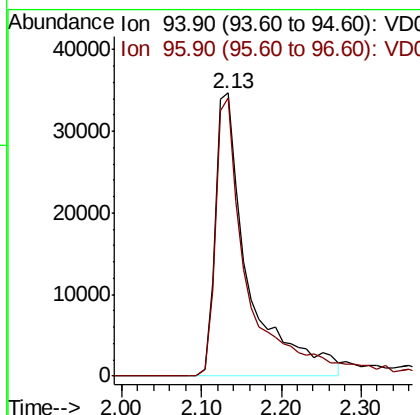
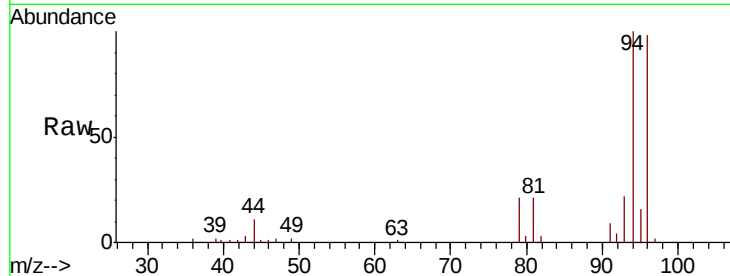
#5
Bromomethane
Concen: 102.058 ug/l
RT: 2.13 min Scan# 62
Delta R.T. 0.02 min
Lab File: VD060061.D
Acq: 20 Sep 2018 21:25

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Tot Ion	Ratio	Lower	Upper
94	100		
96	98.2	79.8	119.8

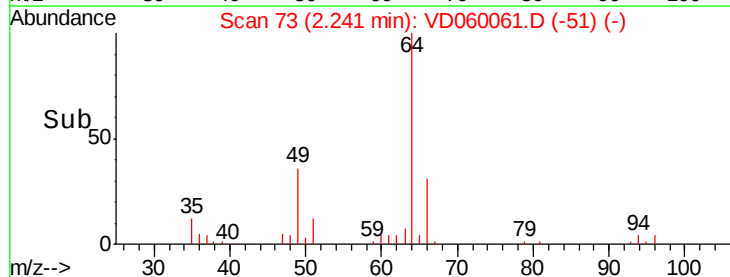
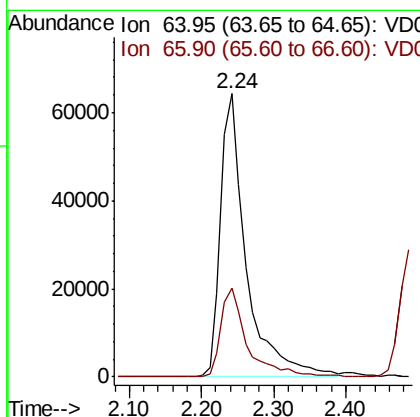
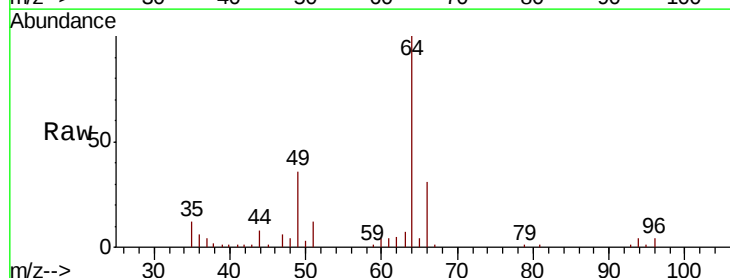
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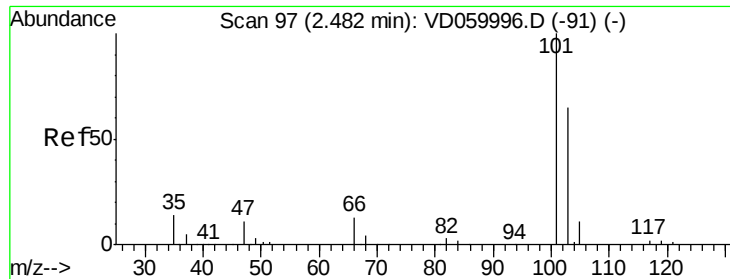
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#6
Chloroethane
Concen: 84.875 ug/l
RT: 2.24 min Scan# 73
Delta R.T. 0.02 min
Lab File: VD060061.D
Acq: 20 Sep 2018 21:25

Tgt Ion	Ratio	Lower	Upper
64	100		
66	31.2	26.5	39.7





#7

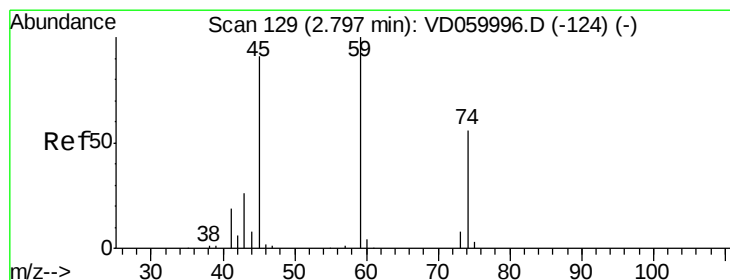
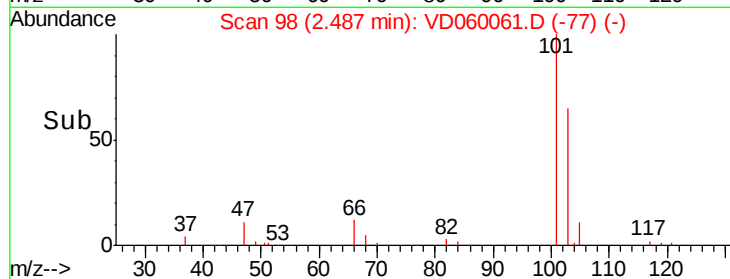
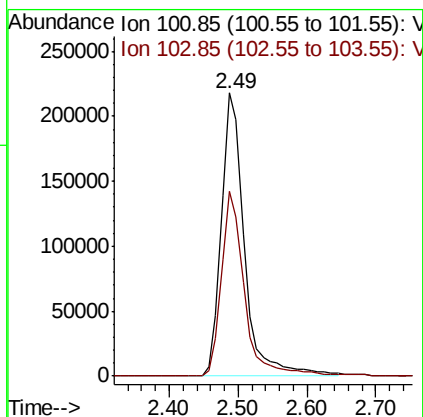
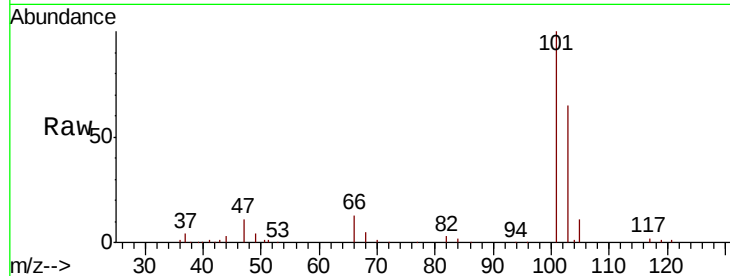
Trichlorofluoromethane
 Concen: 55.337 ug/l
 RT: 2.49 min Scan# 98
 Delta R.T. 0.01 min
 Lab File: VD060061.D
 Acq: 20 Sep 2018 21:25

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Tot Ion:101 Resp: 508347
 Ion Ratio Lower Upper
 101 100
 103 65.2 51.6 77.4

Manual Integrations
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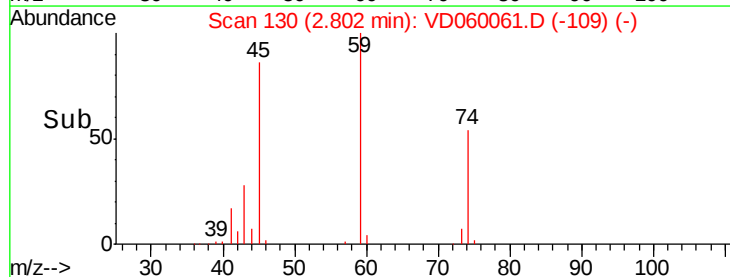
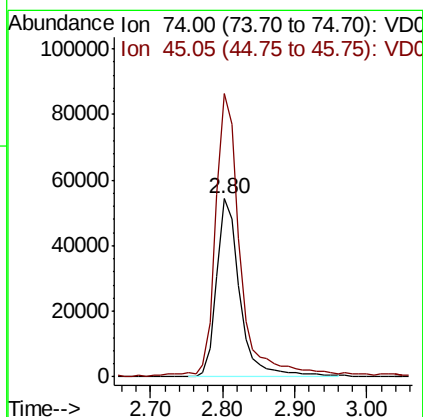
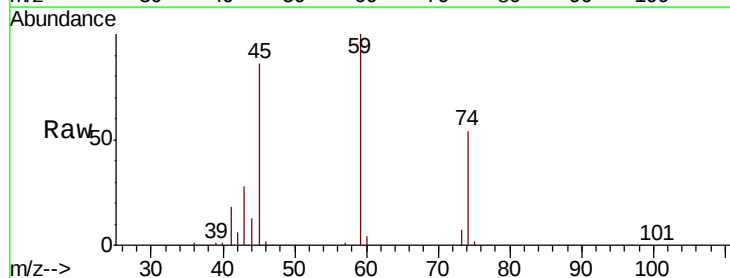
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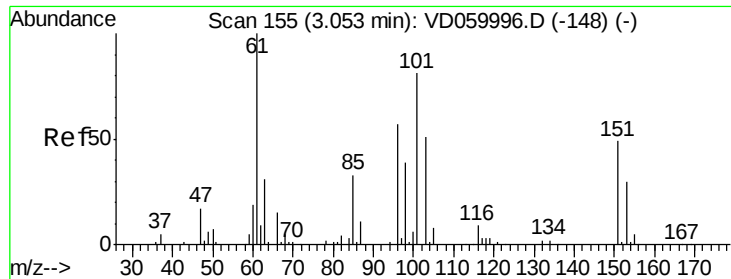


#8

Diethyl Ether
 Concen: 61.995 ug/l
 RT: 2.80 min Scan# 130
 Delta R.T. 0.01 min
 Lab File: VD060061.D
 Acq: 20 Sep 2018 21:25

Tgt Ion: 74 Resp: 121063
 Ion Ratio Lower Upper
 74 100
 45 158.9 81.2 243.4





#9

1,1,2-Trichlorotrifluoroethane

Concen: 46.559 ug/l

RT: 3.07 min Scan# 157

Delta R.T. 0.02 min

Lab File: VD060061.D

Acq: 20 Sep 2018 21:25

Instrument :

MSVOA_D

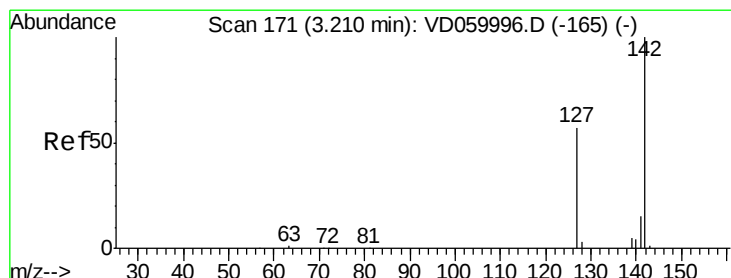
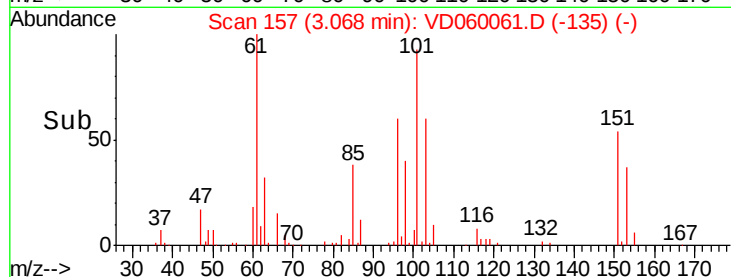
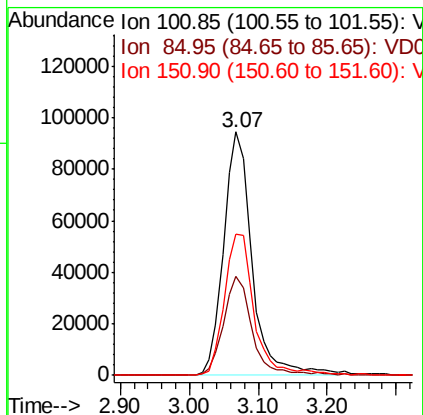
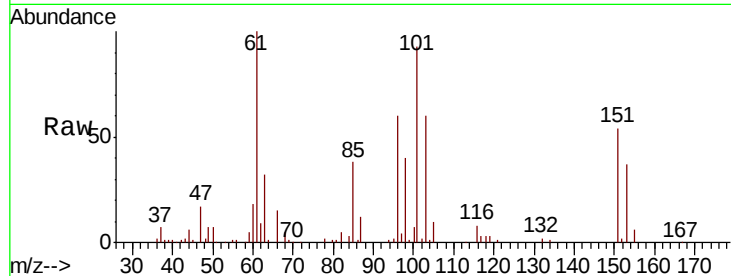
ClientSampleId :

RA-091918-S-NW-061MSD

Tot Ion:	101	Resp:	269704
Ion Ratio	Lower	Upper	
101	100		
85	40.5	33.1	49.7
151	57.9	48.2	72.4

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#10

Methyl Iodide

Concen: 65.045 ug/l

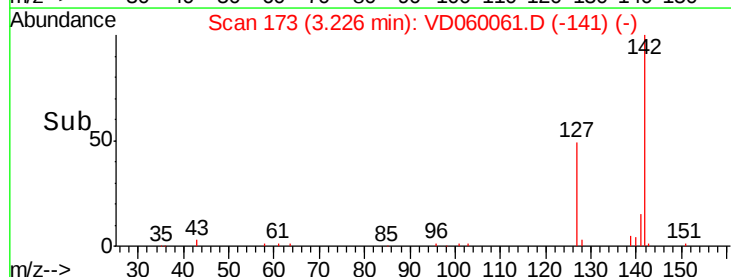
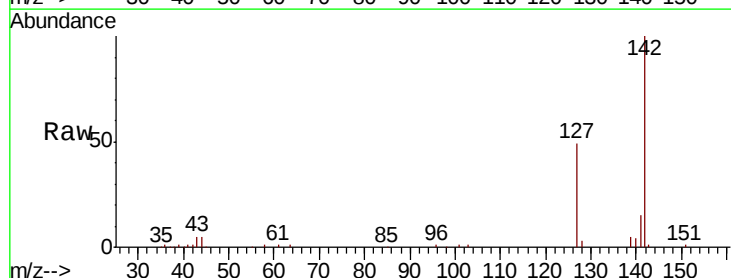
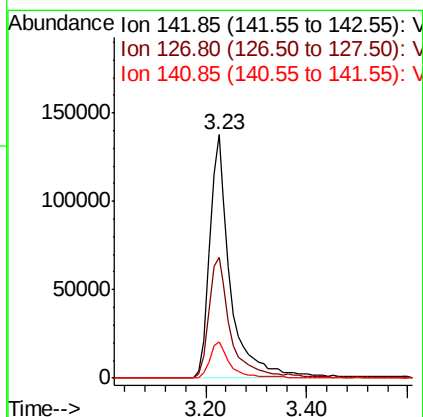
RT: 3.23 min Scan# 173

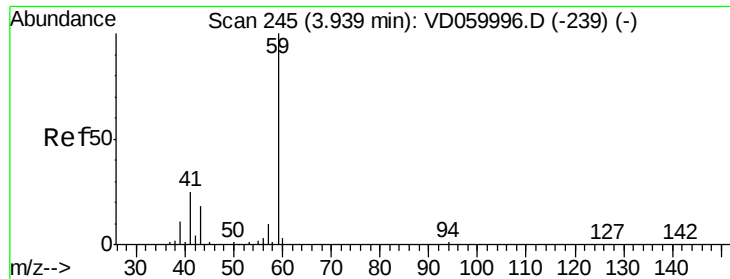
Delta R.T. 0.02 min

Lab File: VD060061.D

Acq: 20 Sep 2018 21:25

Tgt Ion:	142	Resp:	399062
Ion Ratio	Lower	Upper	
142	100		
127	49.3	45.8	68.8
141	15.0	12.2	18.4





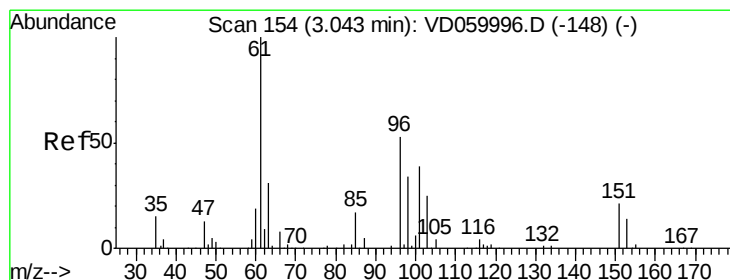
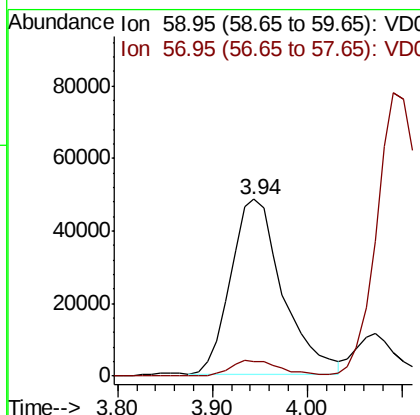
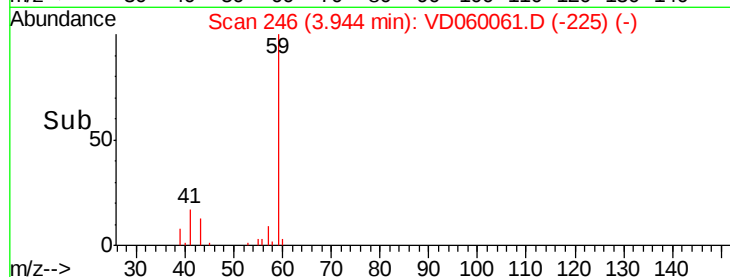
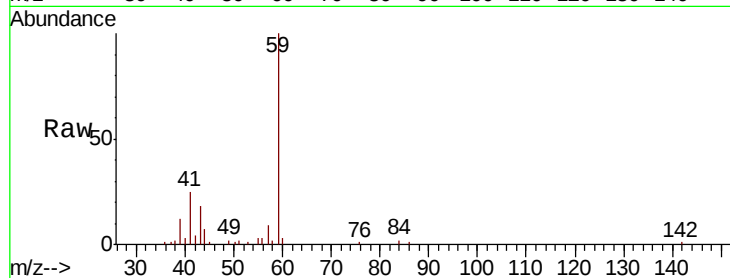
#11
Tert butyl alcohol
Concen: 263.076 ug/l
RT: 3.94 min Scan# 246
Delta R.T. 0.01 min
Lab File: VD060061.D
Acq: 20 Sep 2018 21:25

Instrument :
MSVOA_D
ClientSampleId :
RA-091918-S-NW-061MSD

Tot Ion: 59 Resp: 184274
Ion Ratio Lower Upper
59 100
57 8.5 7.4 11.2

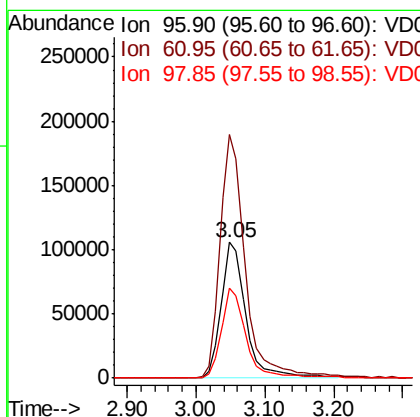
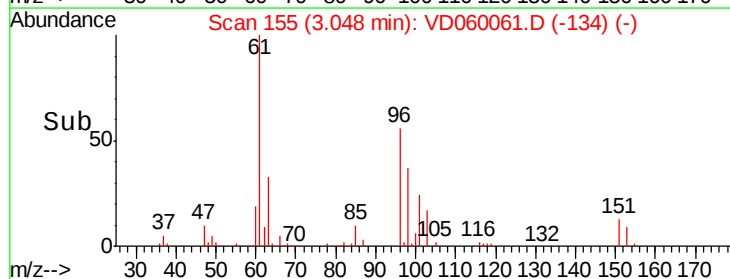
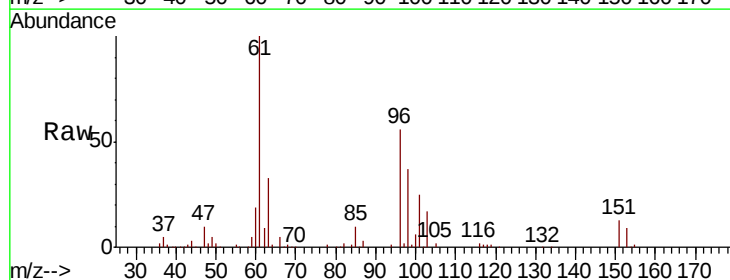
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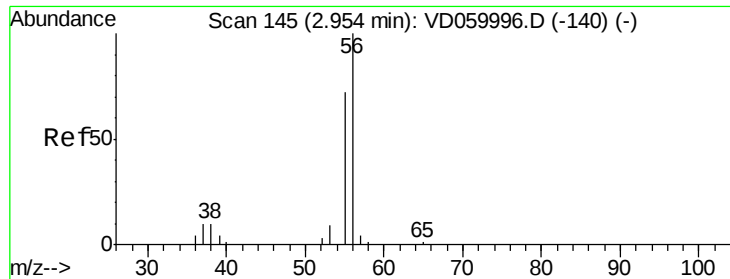
apatel
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#12
1,1-Dichloroethene
Concen: 57.896 ug/l
RT: 3.05 min Scan# 155
Delta R.T. 0.01 min
Lab File: VD060061.D
Acq: 20 Sep 2018 21:25

Tgt Ion: 96 Resp: 265176
Ion Ratio Lower Upper
96 100
61 179.0 149.8 224.6
98 66.6 50.2 75.4





#13

Acrolein

Concen: 143.262 ug/l

RT: 2.96 min Scan# 146

Delta R.T. 0.01 min

Lab File: VD060061.D

Acq: 20 Sep 2018 21:25

Instrument :

MSVOA_D

ClientSampleId :

RA-091918-S-NW-061MSD

Tot Ion: 56 Resp: 62143

Ion Ratio Lower Upper

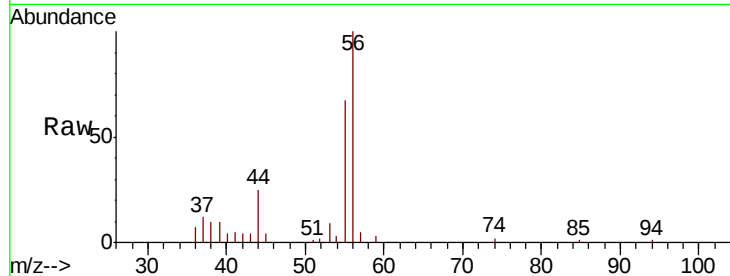
56 100

55 66.9 58.3 87.5

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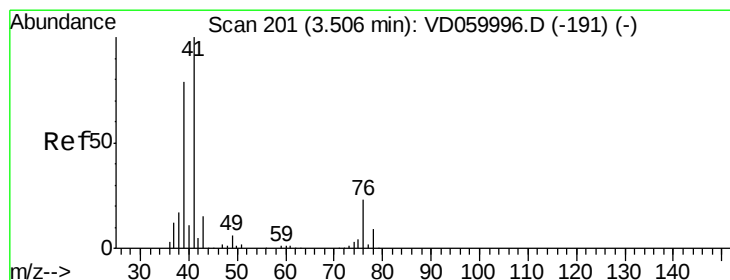
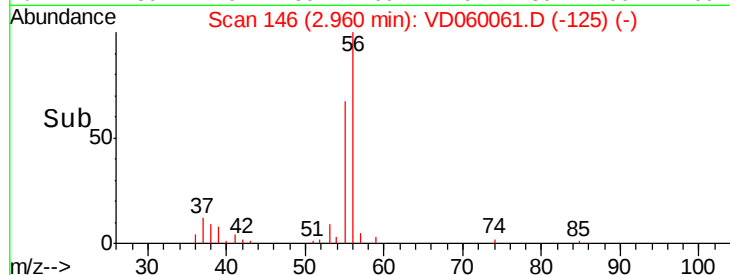
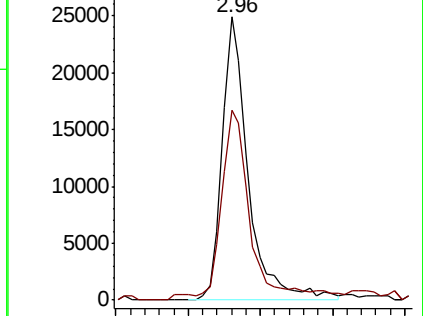
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Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC



#14

Allyl chloride

Concen: 58.163 ug/l

RT: 3.51 min Scan# 202

Delta R.T. 0.01 min

Lab File: VD060061.D

Acq: 20 Sep 2018 21:25

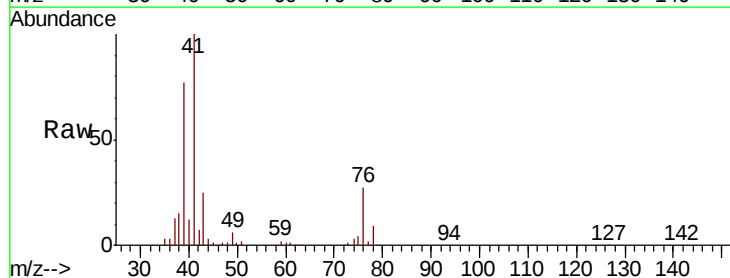
Tgt Ion: 41 Resp: 561816

Ion Ratio Lower Upper

41 100

39 77.1 63.6 95.4

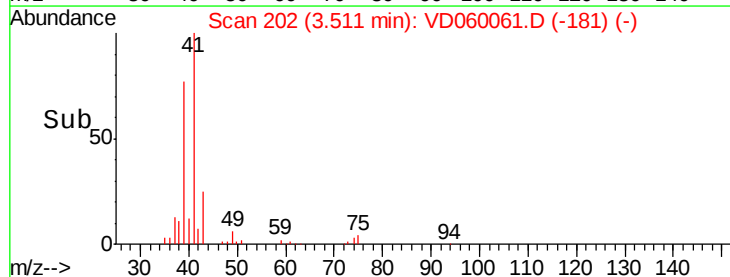
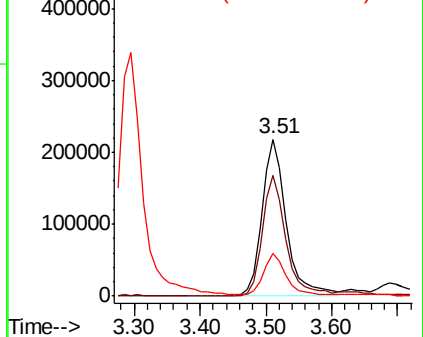
76 26.8 21.1 31.7

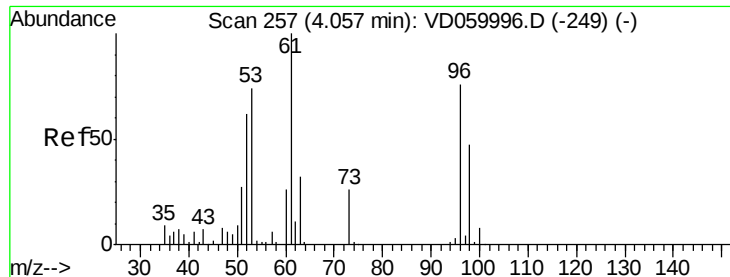


Abundance Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 75.95 (75.65 to 76.65): VDC





#15

Acrylonitrile

Concen: 283.102 ug/l

RT: 4.06 min Scan# 258

Delta R.T. 0.01 min

Lab File: VD060061.D

Acq: 20 Sep 2018 21:25

Instrument :

MSVOA_D

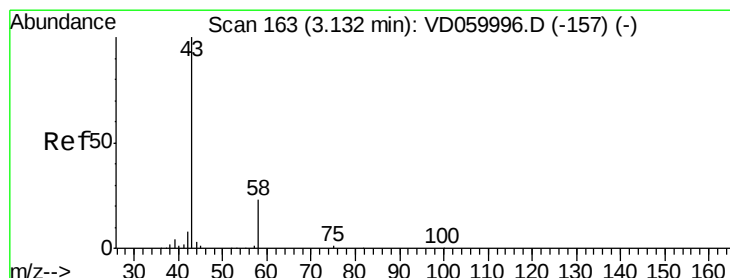
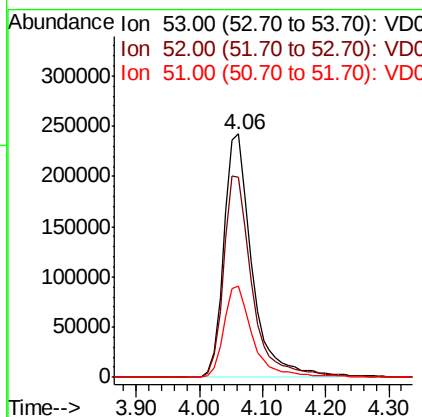
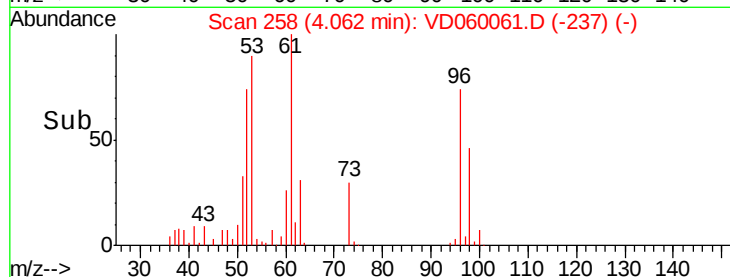
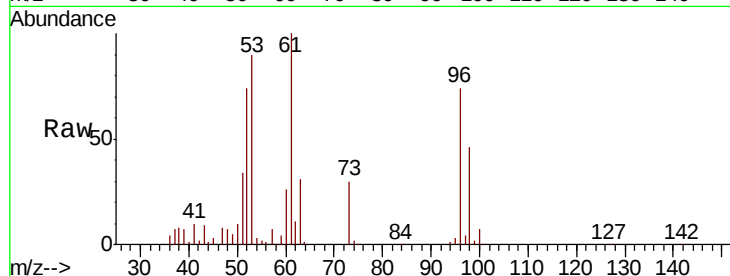
ClientSampleId :

RA-091918-S-NW-061MSD

Tot Ion:	53	Resp:	748533
Ion Ratio	Lower	Upper	
53	100		
52	82.3	66.7	100.1
51	37.6	29.0	43.6

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#16

Acetone

Concen: 316.499 ug/l

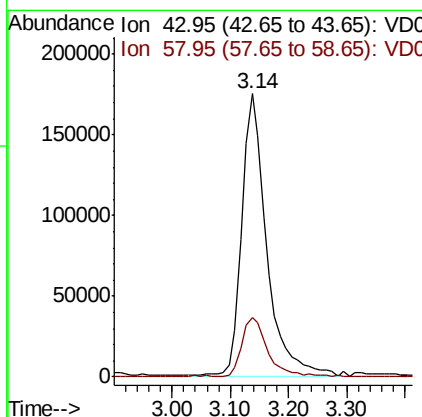
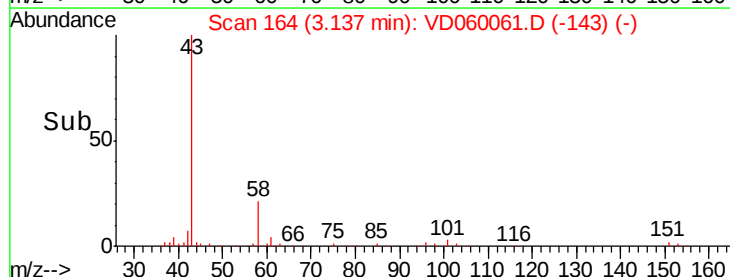
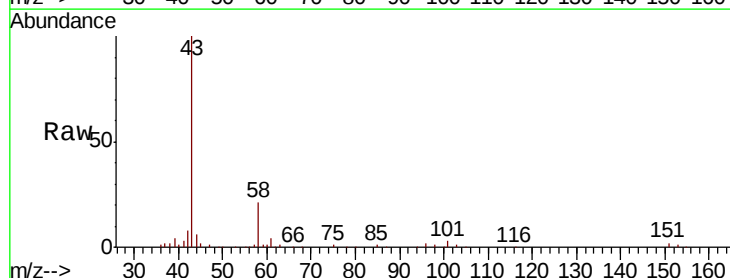
RT: 3.14 min Scan# 164

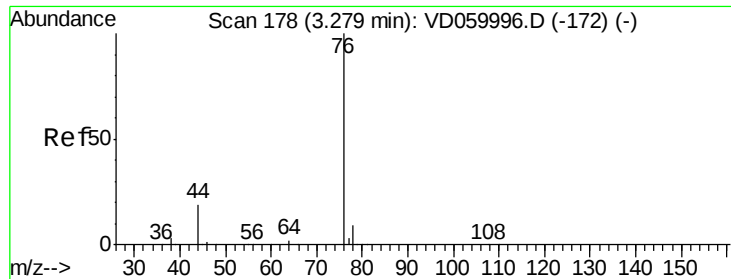
Delta R.T. 0.01 min

Lab File: VD060061.D

Acq: 20 Sep 2018 21:25

Tgt Ion:	43	Resp:	530456
Ion Ratio	Lower	Upper	
43	100		
58	20.9	18.1	27.1





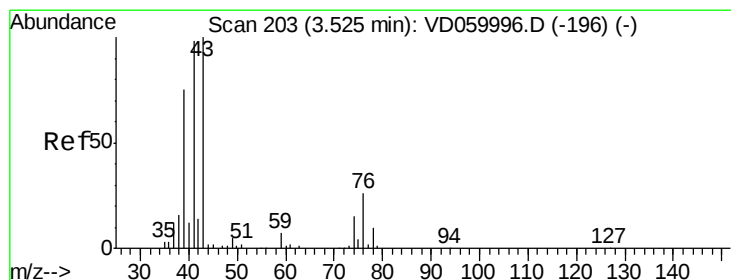
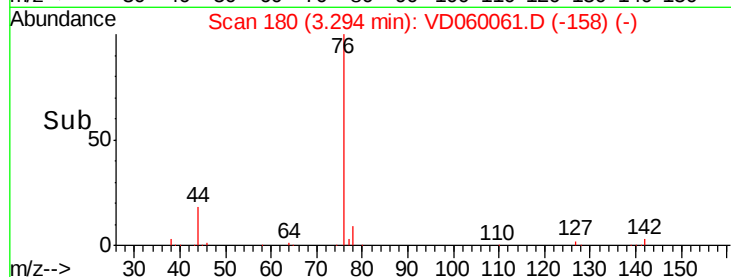
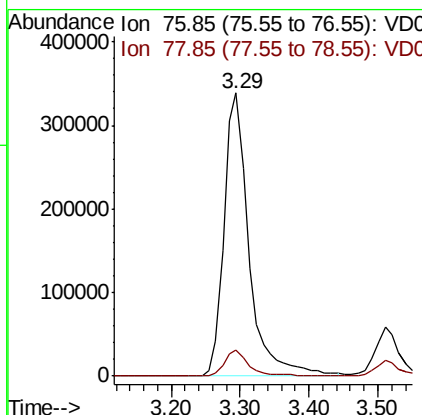
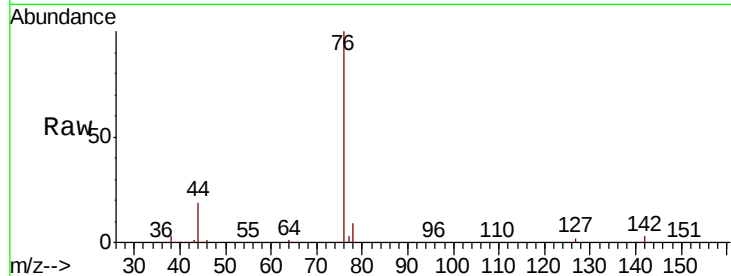
#17
Carbon Disulfide
Concen: 53.937 ug/l
RT: 3.29 min Scan# 180
Delta R.T. 0.02 min
Lab File: VD060061.D
Acq: 20 Sep 2018 21:25

Instrument :
MSVOA_D
ClientSampleId :
RA-091918-S-NW-061MSD

Tot Ion: 76 Resp: 851192
Ion Ratio Lower Upper
76 100
78 9.2 7.0 10.4

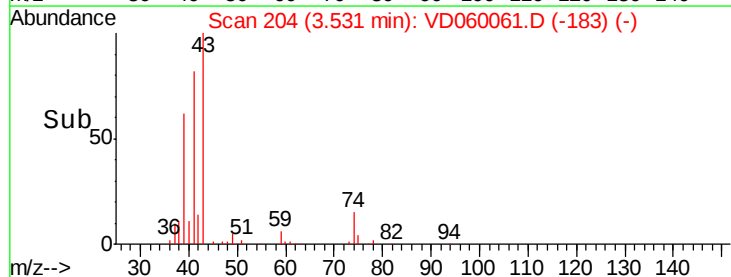
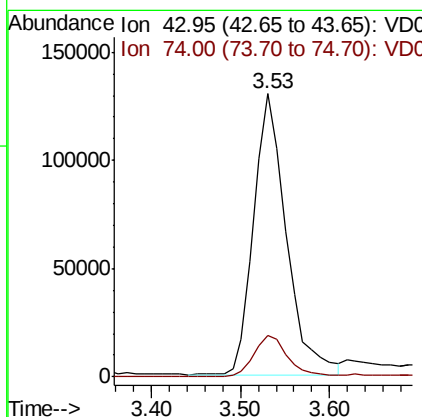
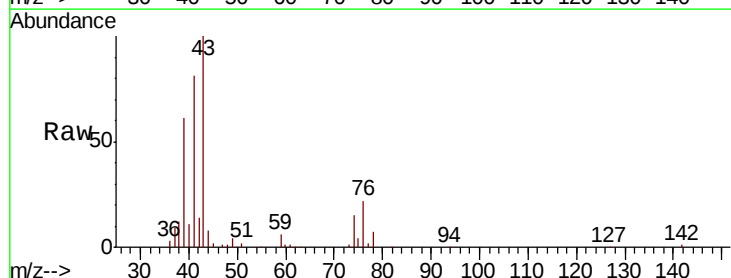
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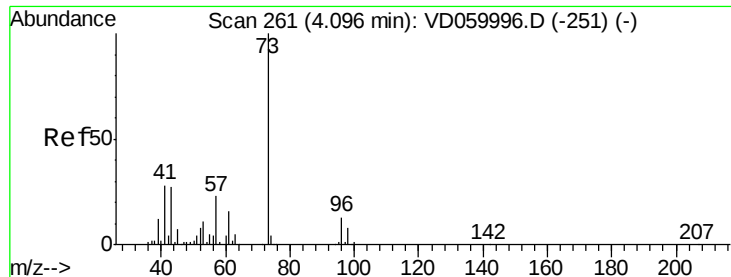
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#18
Methyl Acetate
Concen: 96.296 ug/l
RT: 3.53 min Scan# 204
Delta R.T. 0.01 min
Lab File: VD060061.D
Acq: 20 Sep 2018 21:25

Tgt Ion: 43 Resp: 328227
Ion Ratio Lower Upper
43 100
74 14.7 11.8 17.8





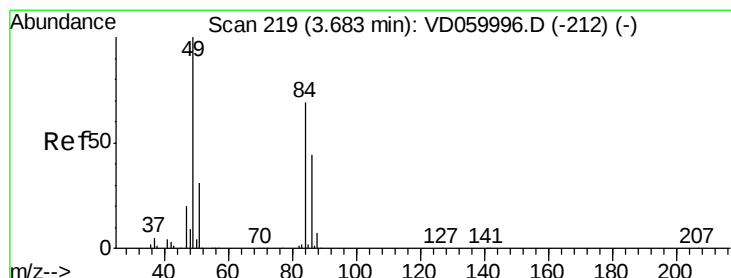
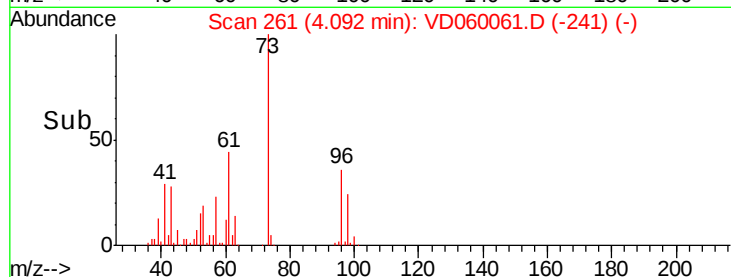
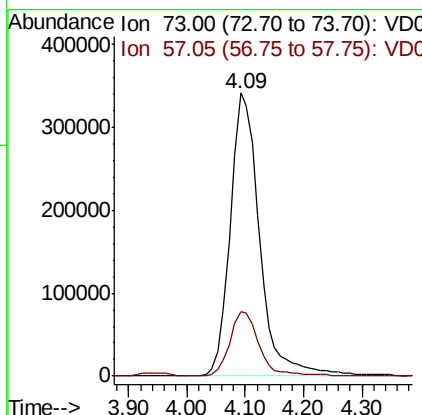
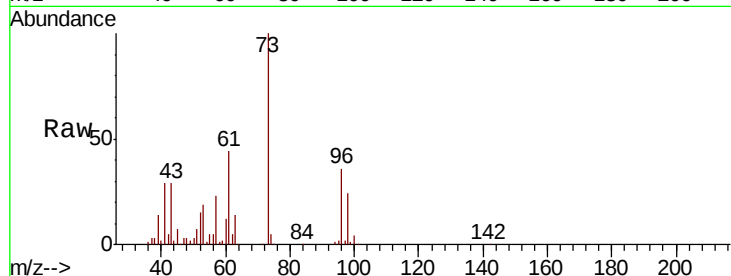
#19
Methvl tert-butvl Ether
Concen: 56.362 ug/l
RT: 4.09 min Scan# 261
Delta R.T. -0.00 min
Lab File: VD060061.D
Acq: 20 Sep 2018 21:25

Instrument :
MSVOA_D
ClientSampleId :
RA-091918-S-NW-061MSD

Tot Ion: 73 Resp: 1192786
Ion Ratio Lower Upper
73 100
57 22.8 18.4 27.6

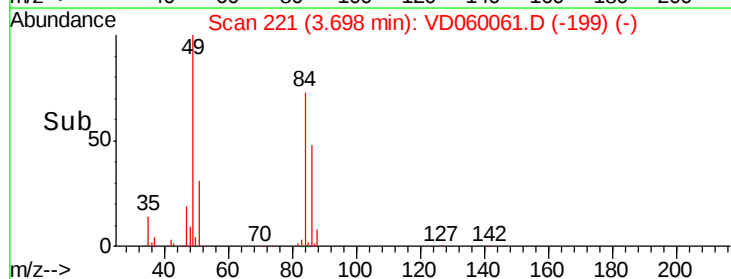
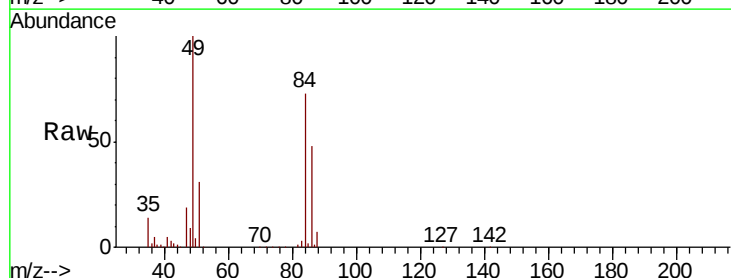
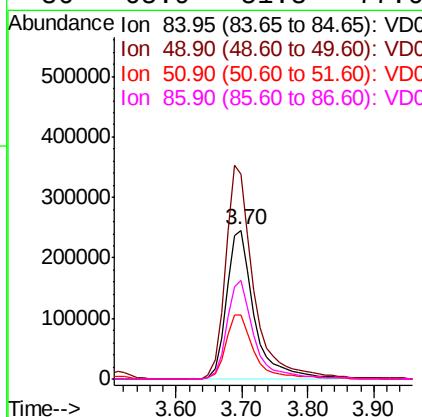
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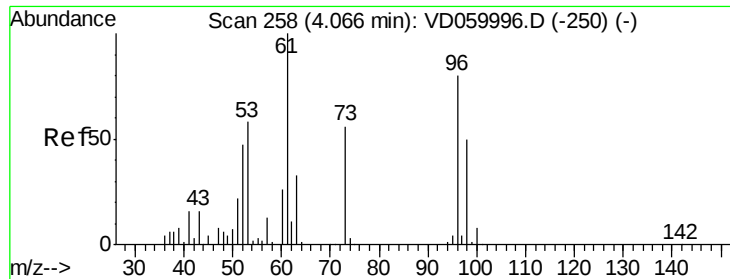
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#20
Methylene Chloride
Concen: 62.774 ug/l
RT: 3.70 min Scan# 221
Delta R.T. 0.02 min
Lab File: VD060061.D
Acq: 20 Sep 2018 21:25

Tgt Ion: 84 Resp: 726650
Ion Ratio Lower Upper
84 100
49 137.5 116.6 175.0
51 42.6 35.9 53.9
86 65.9 51.8 77.6





#21

trans-1,2-Dichloroethene

Concen: 54.278 ug/l

RT: 4.07 min Scan# 259

Delta R.T. 0.01 min

Lab File: VD060061.D

Acq: 20 Sep 2018 21:25

Instrument :

MSVOA_D

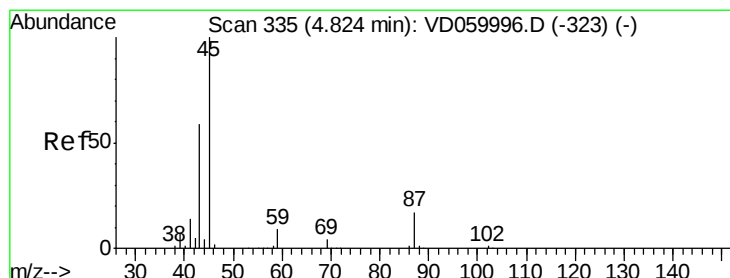
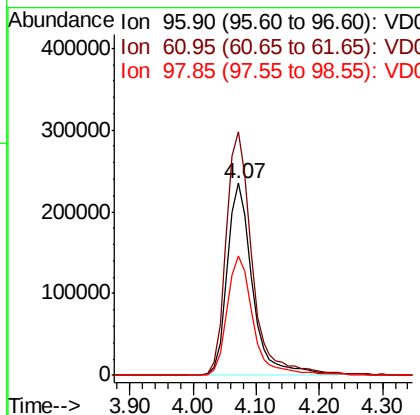
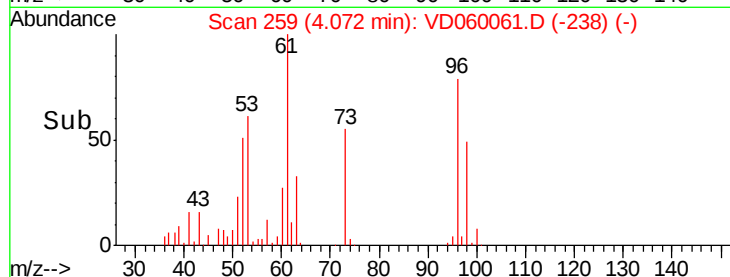
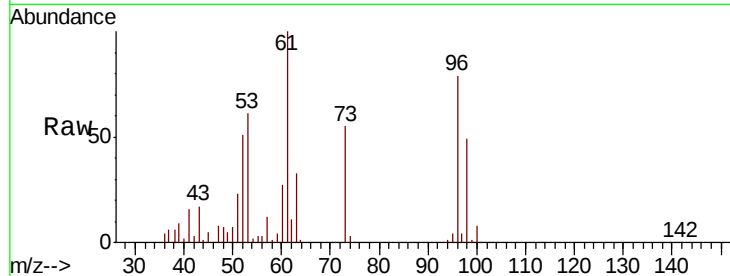
ClientSampleId :

RA-091918-S-NW-061MSD

Tot Ion:	96	Resp:	652387
Ion	Ratio	Lower	Upper
96	100		
61	126.9	100.1	150.1
98	62.3	49.5	74.3

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#22

Diisopropyl ether

Concen: 57.508 ug/l

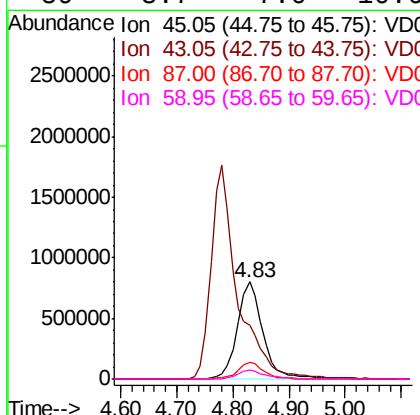
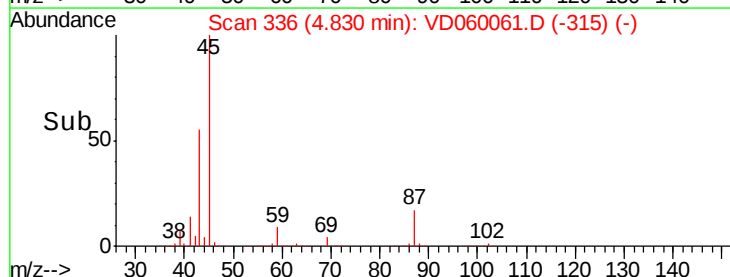
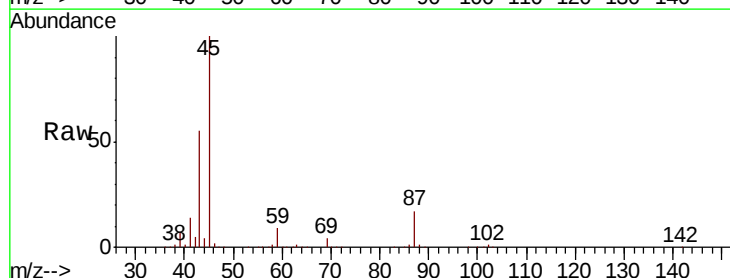
RT: 4.83 min Scan# 336

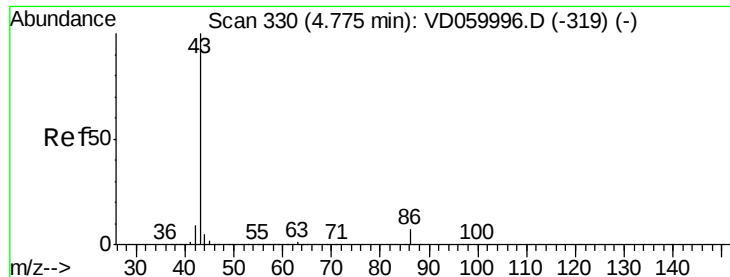
Delta R.T. 0.01 min

Lab File: VD060061.D

Acq: 20 Sep 2018 21:25

Tgt Ion:	45	Resp:	2533845
Ion	Ratio	Lower	Upper
45	100		
43	55.0	47.1	70.7
87	17.3	14.2	21.2
59	8.7	7.0	10.6





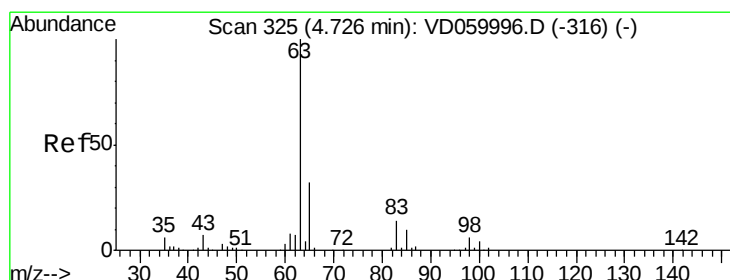
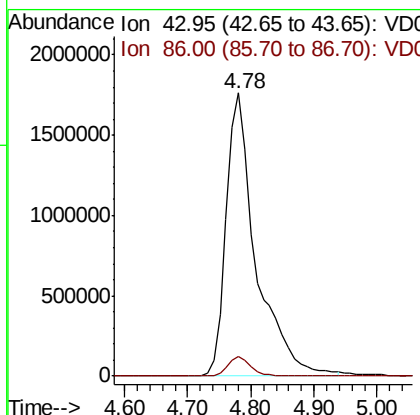
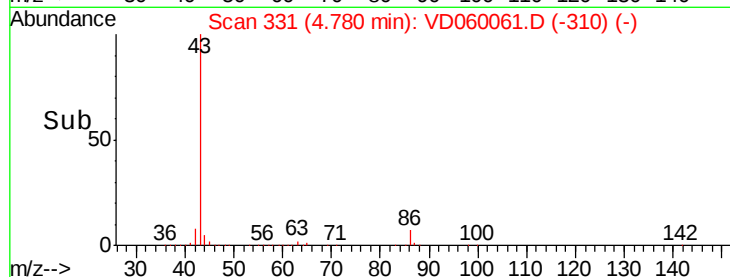
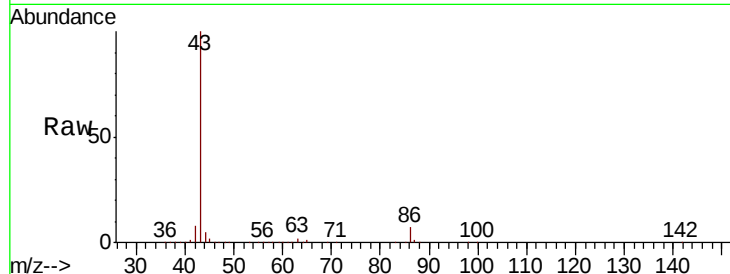
#23
 Vinyl Acetate
 Concen: 231.593 ug/l
 RT: 4.78 min Scan# 331
 Delta R.T. 0.01 min
 Lab File: VD060061.D
 Acq: 20 Sep 2018 21:25

Instrument :
 MSVOA_D
 ClientSampleId :
 RA-091918-S-NW-061MSD

Tot Ion: 43 Resp: 5780931
 Ion Ratio Lower Upper
 43 100
 86 6.9 5.5 8.3

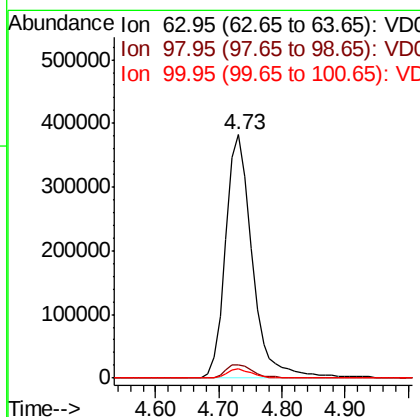
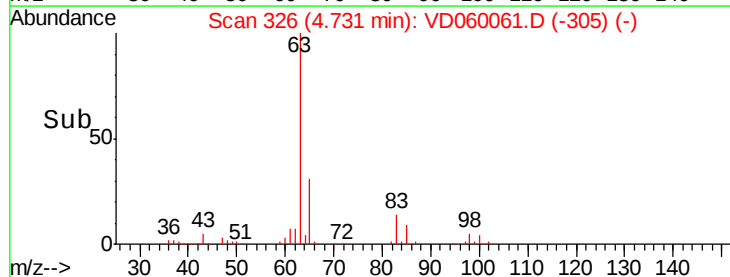
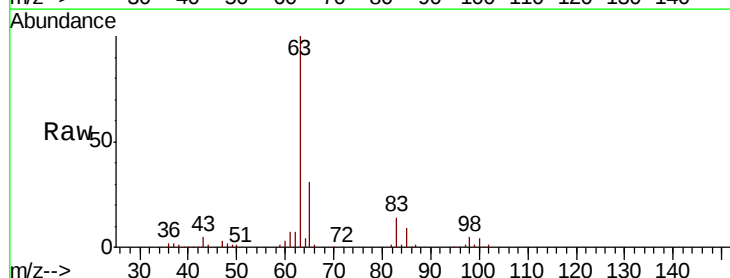
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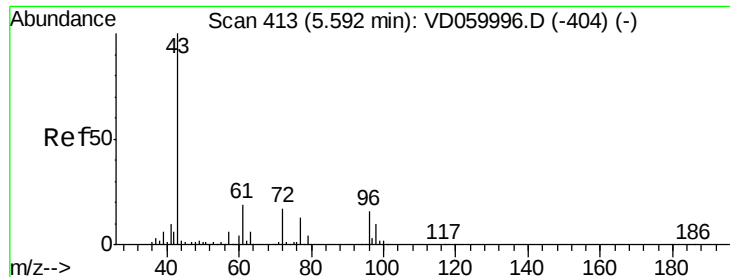
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#24
 1,1-Dichloroethane
 Concen: 56.806 ug/l
 RT: 4.73 min Scan# 326
 Delta R.T. 0.01 min
 Lab File: VD060061.D
 Acq: 20 Sep 2018 21:25

Tgt Ion: 63 Resp: 1123212
 Ion Ratio Lower Upper
 63 100
 98 5.4 2.9 8.6
 100 3.7 1.8 5.4





#25

2-Butanone

Concen: 267.955 ug/l

RT: 5.60 min Scan# 414

Delta R.T. 0.01 min

Lab File: VD060061.D

Acq: 20 Sep 2018 21:25

Instrument :

MSVOA_D

ClientSampleId :

RA-091918-S-NW-061MSD

Tot Ion: 43 Resp: 1211874

Ion Ratio Lower Upper

43 100

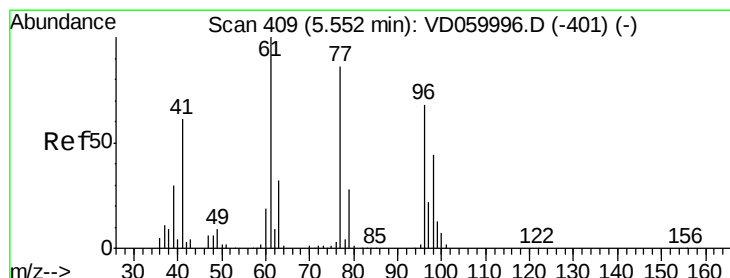
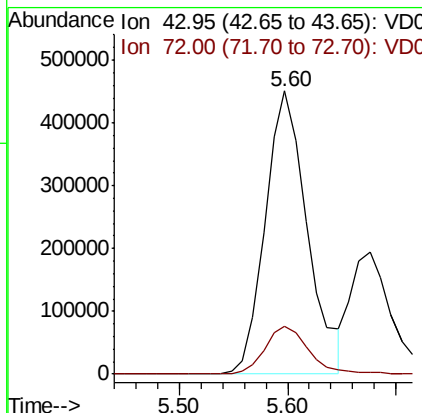
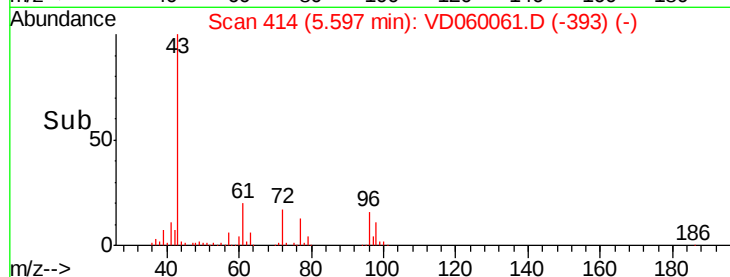
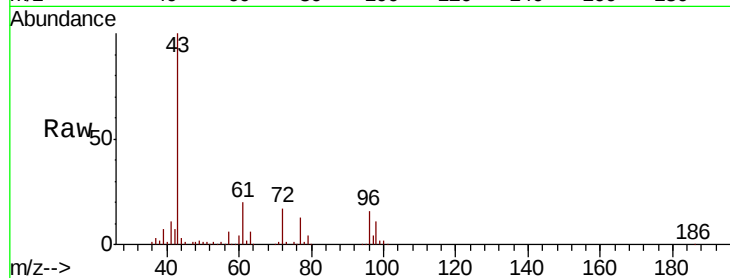
72 17.1 13.6 20.4

Manual Integrations

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#26

2,2-Dichloropropane

Concen: 51.886 ug/l

RT: 5.57 min Scan# 411

Delta R.T. 0.02 min

Lab File: VD060061.D

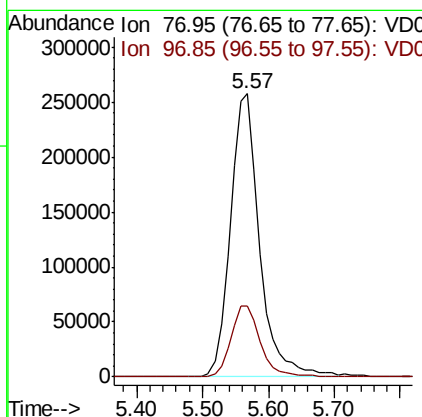
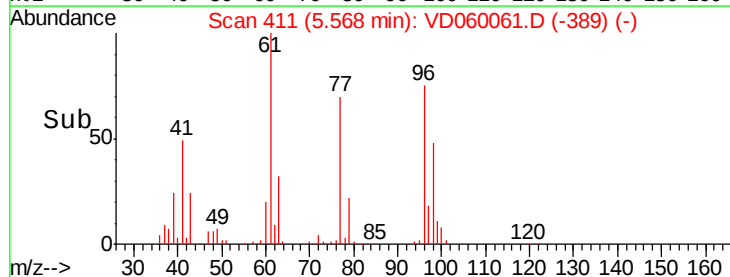
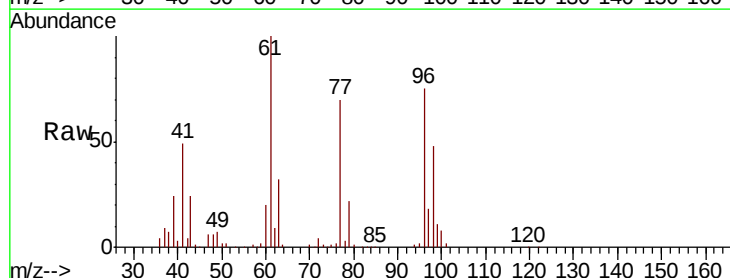
Acq: 20 Sep 2018 21:25

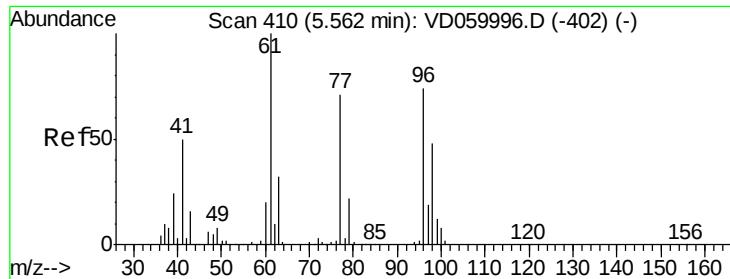
Tgt Ion: 77 Resp: 797612

Ion Ratio Lower Upper

77 100

97 25.3 12.7 38.1





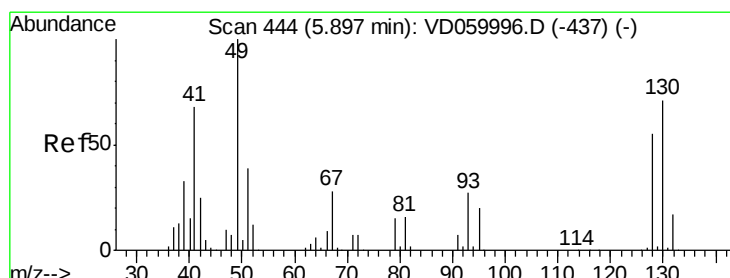
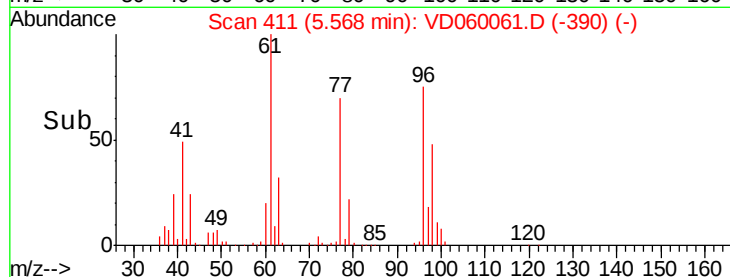
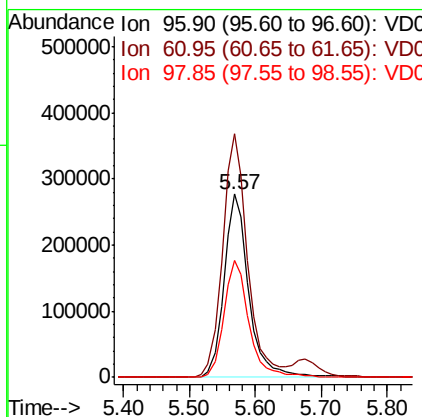
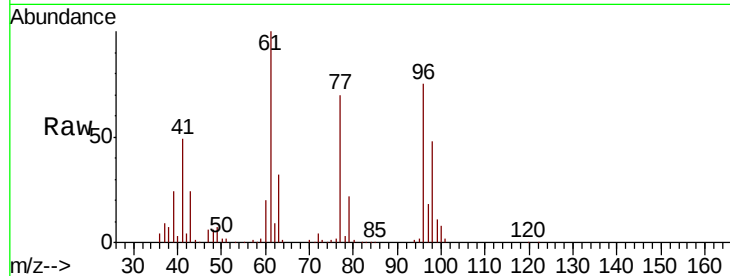
#27
 cis-1,2-Dichloroethene
 Concen: 57.591 ug/l
 RT: 5.57 min Scan# 411
 Delta R.T. 0.01 min
 Lab File: VD060061.D
 Acq: 20 Sep 2018 21:25

Instrument :
 MSVOA_D
 ClientSampleId :
 RA-091918-S-NW-061MSD

Tot Ion	Ratio	Resp	Lower	Upper
96	100			
61	132.9	0.0	269.6	
98	63.8	0.0	128.4	

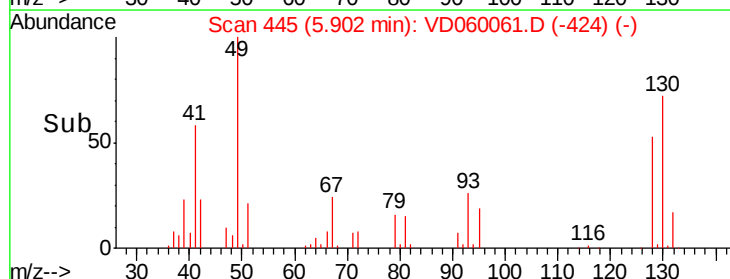
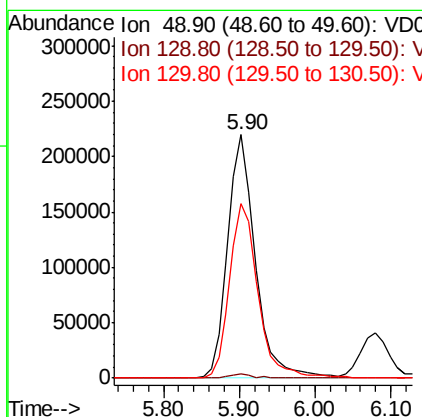
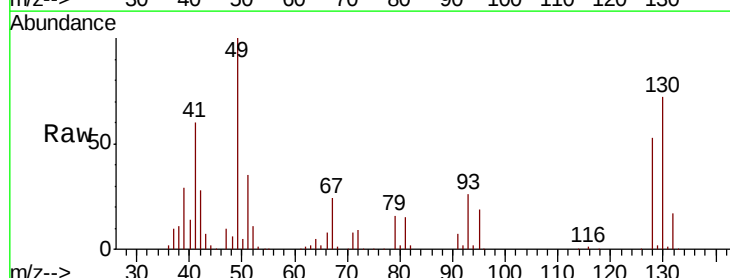
Manual Integrations
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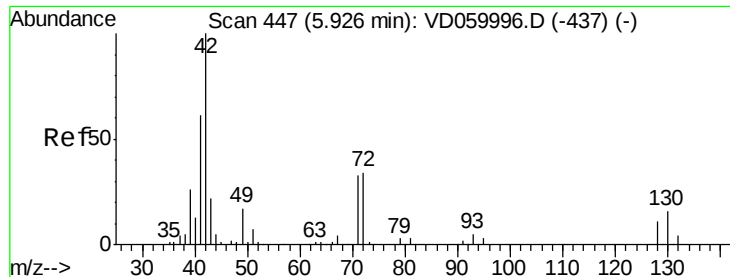
apatel
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#28
 Bromochloromethane
 Concen: 58.421 ug/l
 RT: 5.90 min Scan# 445
 Delta R.T. 0.01 min
 Lab File: VD060061.D
 Acq: 20 Sep 2018 21:25

Tgt Ion	Ratio	Resp	Lower	Upper
49	100			
129	1.8	0.0	3.6	
130	71.8	57.1	85.7	





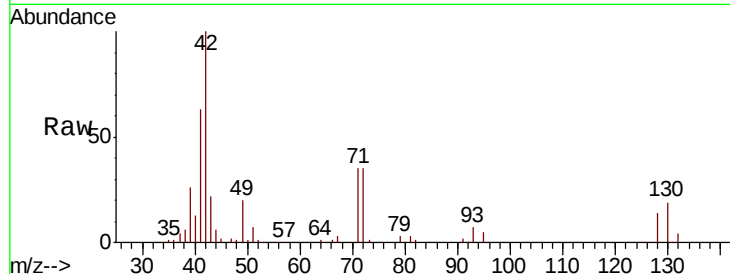
#29
Tetrahydrofuran
Concen: 266.233 ug/l
RT: 5.93 min Scan# 448
Delta R.T. 0.01 min
Lab File: VD060061.D
Acq: 20 Sep 2018 21:25

Instrument :
MSVOA_D
ClientSampleId :
RA-091918-S-NW-061MSD

Tot Ion	Ratio	Lower	Upper
42	100		
72	34.4	26.9	40.3
71	34.0	26.2	39.4

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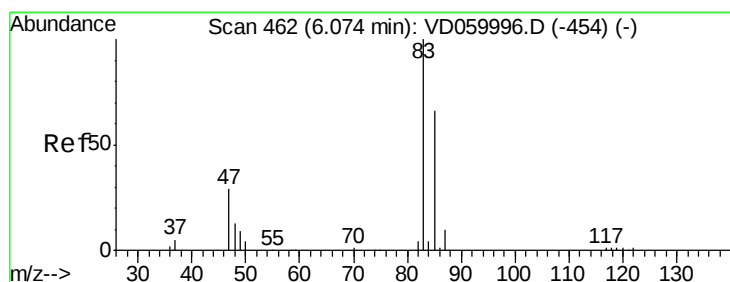
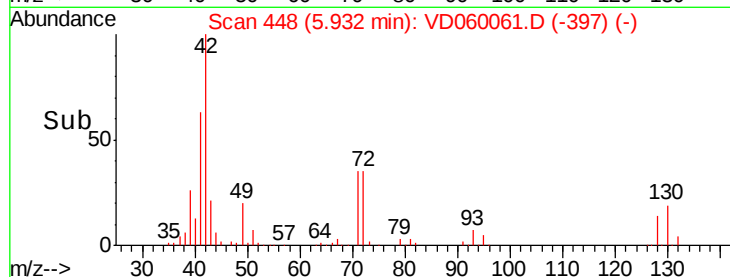
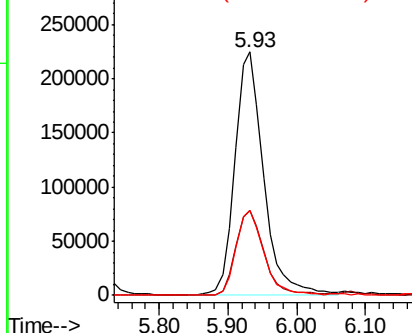


Abundance

Ion 42.00 (41.70 to 42.70): VDC

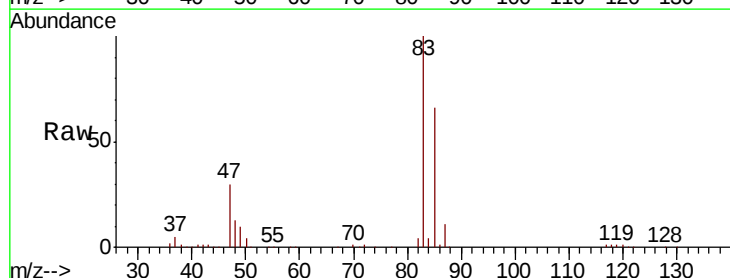
Ion 72.00 (71.70 to 72.70): VDC

Ion 71.00 (70.70 to 71.70): VDC



#30
Chloroform
Concen: 55.872 ug/l
RT: 6.08 min Scan# 463
Delta R.T. 0.01 min
Lab File: VD060061.D
Acq: 20 Sep 2018 21:25

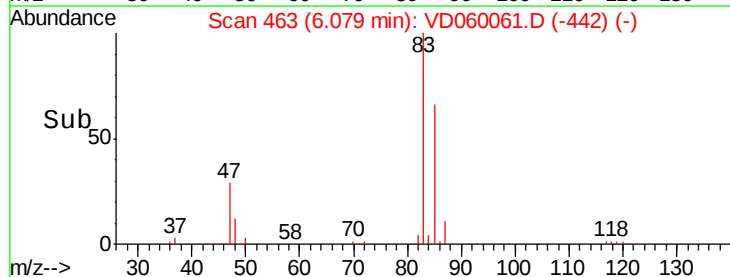
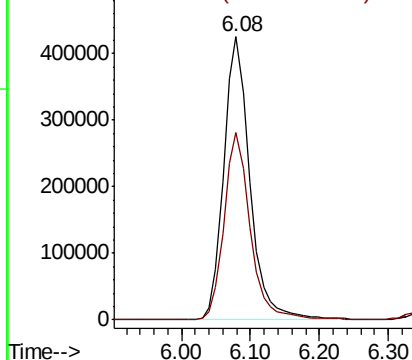
Tgt Ion	Ratio	Lower	Upper
83	100		
85	66.1	52.6	78.8

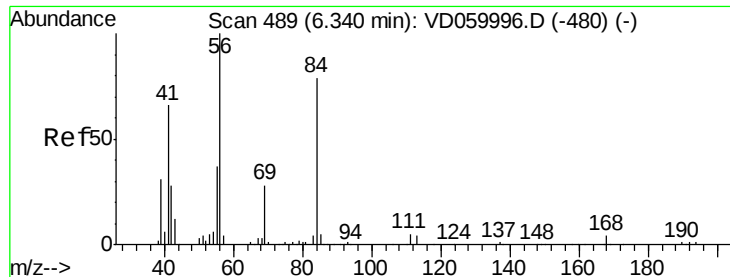


Abundance

Ion 82.95 (82.65 to 83.65): VDC

Ion 84.95 (84.65 to 85.65): VDC





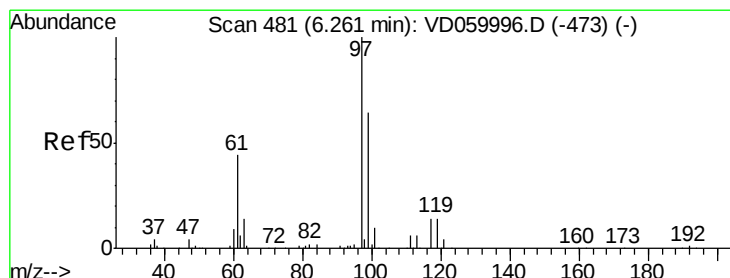
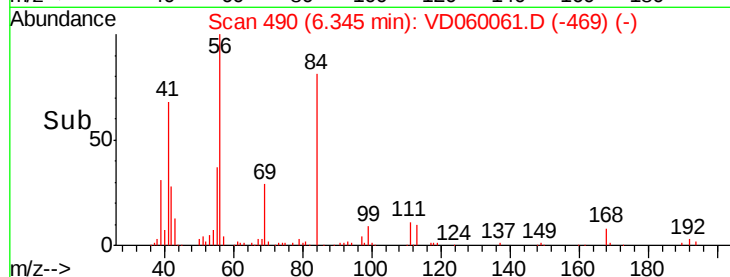
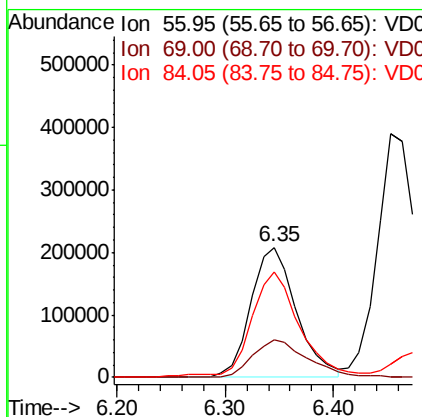
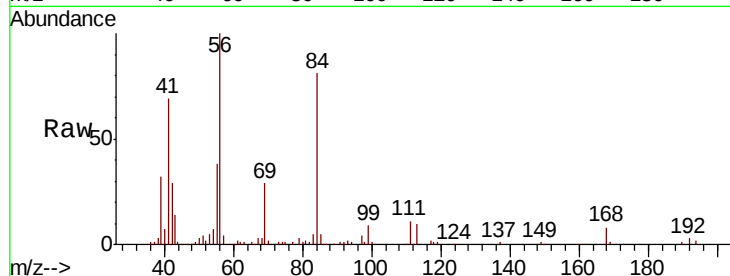
#31
Cyclohexane
Concen: 31.640 ug/l
RT: 6.35 min Scan# 490
Delta R.T. 0.01 min
Lab File: VD060061.D
Acq: 20 Sep 2018 21:25

Instrument :
MSVOA_D
ClientSampleId :
RA-091918-S-NW-061MSD

Tot Ion	Ratio	Lower	Upper
56	100		
69	29.1	22.7	34.1
84	81.2	64.0	96.0

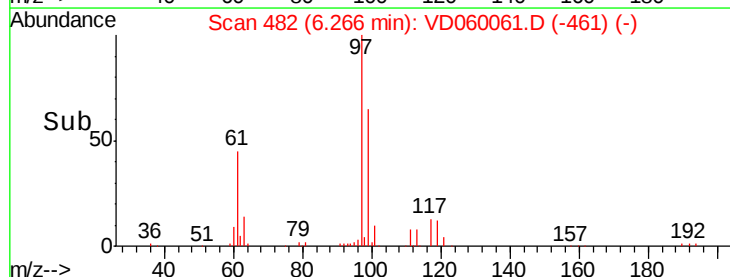
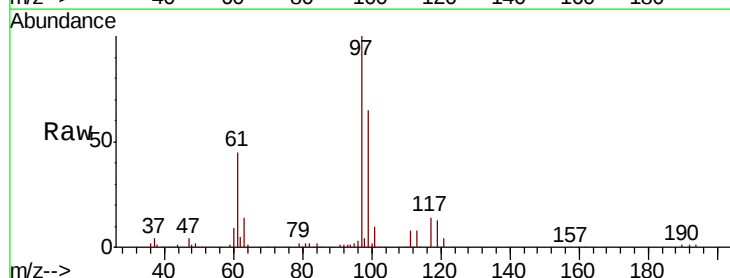
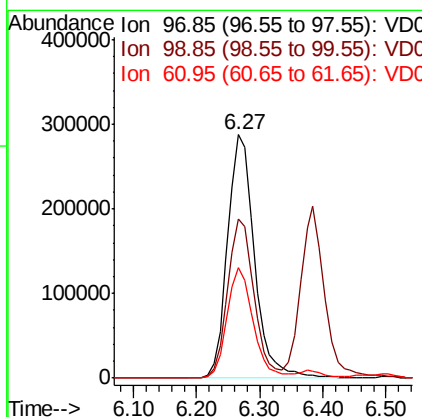
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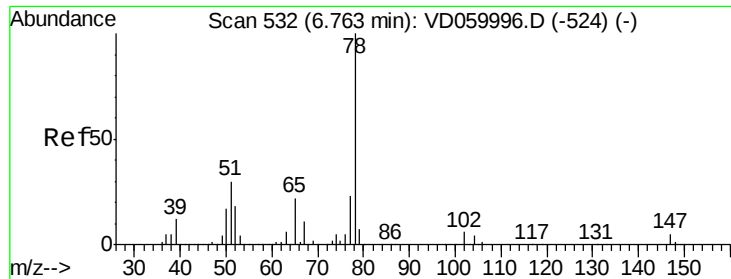
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#32
1,1,1-Trichloroethane
Concen: 51.039 ug/l
RT: 6.27 min Scan# 482
Delta R.T. 0.01 min
Lab File: VD060061.D
Acq: 20 Sep 2018 21:25

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.4	51.3	76.9
61	45.4	35.5	53.3





#33

1,2-Dichloroethane-d4

Concen: 51.039 ug/l

RT: 6.76 min Scan# 532

Delta R.T. -0.00 min

Lab File: VD060061.D

Acq: 20 Sep 2018 21:25

Instrument :

MSVOA_D

ClientSampleId :

RA-091918-S-NW-061MSD

Tot Ion: 65 Resp: 516828

Ion Ratio Lower Upper

65 100

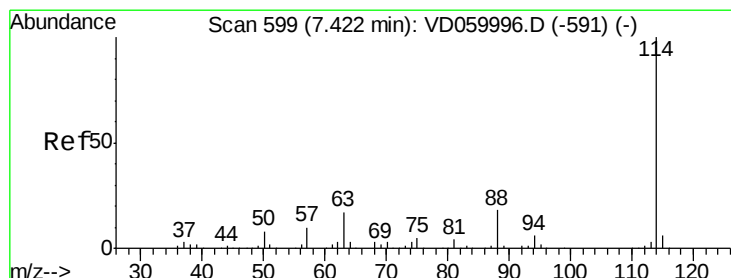
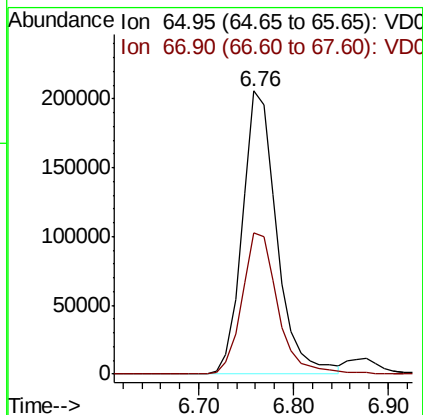
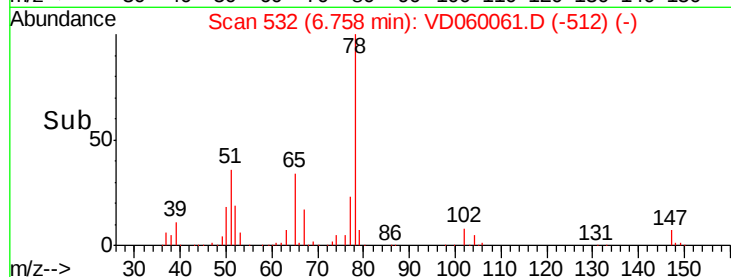
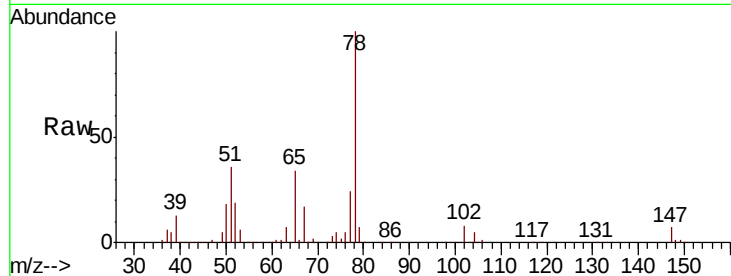
67 50.1 0.0 104.8

Manual Integrations

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#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 7.42 min Scan# 599

Delta R.T. -0.00 min

Lab File: VD060061.D

Acq: 20 Sep 2018 21:25

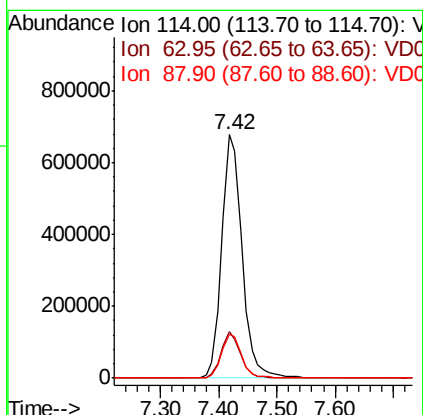
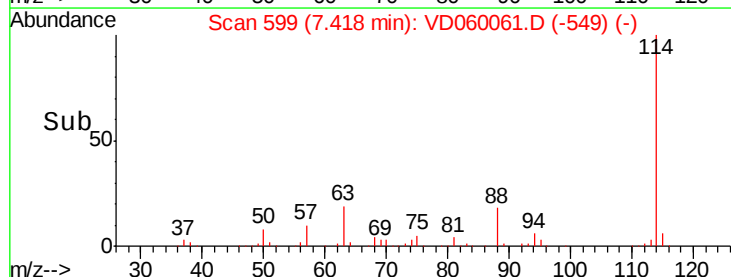
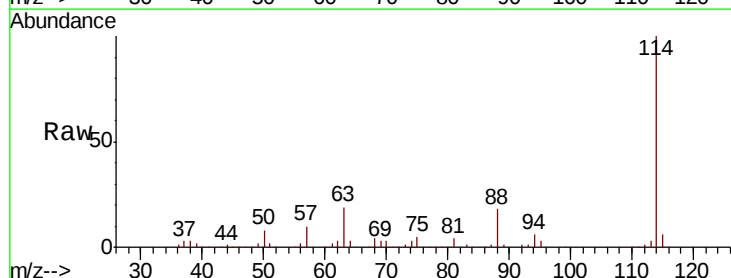
Tgt Ion: 114 Resp: 1646416

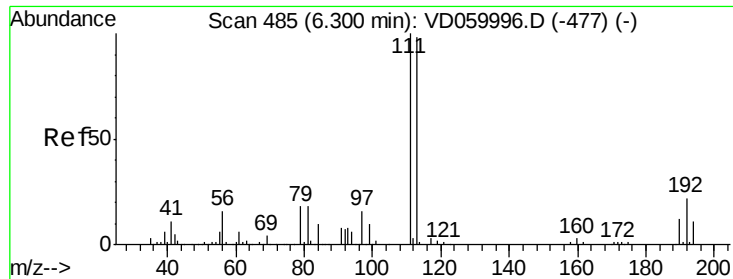
Ion Ratio Lower Upper

114 100

63 19.0 0.0 34.4

88 18.1 0.0 35.8





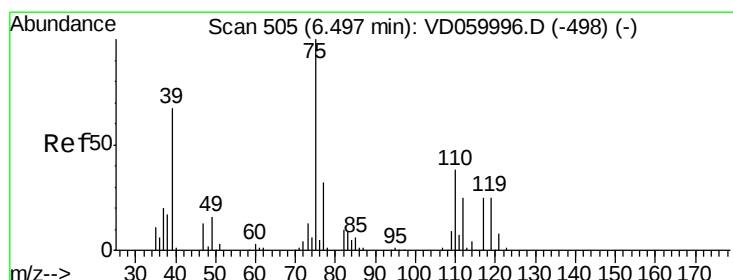
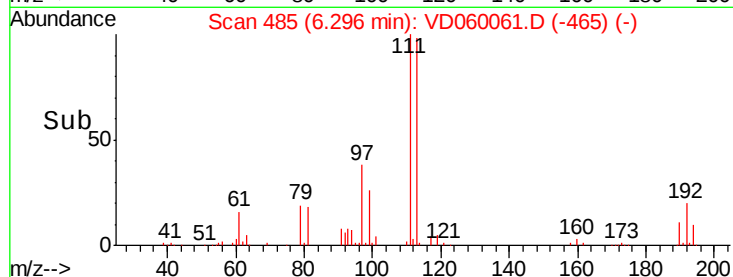
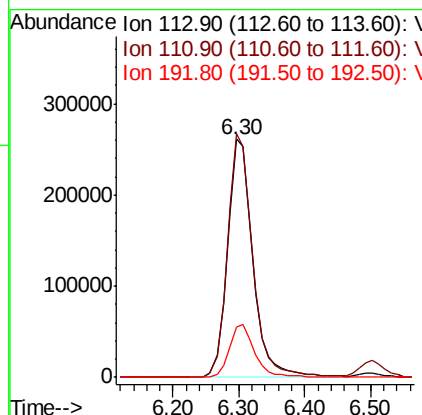
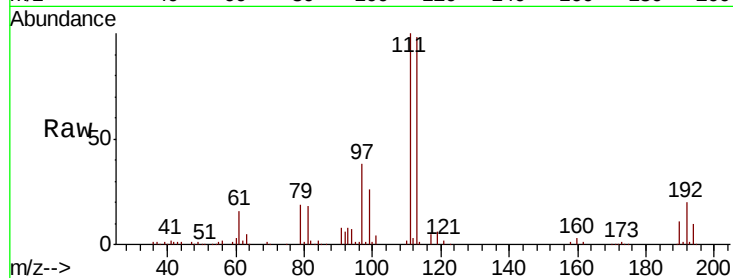
#35
Dibromofluoromethane
Concen: 50.000 ug/l
RT: 6.30 min Scan# 485
Delta R.T. -0.00 min
Lab File: VD060061.D
Acq: 20 Sep 2018 21:25

Instrument :
MSVOA_D
ClientSampleId :
RA-091918-S-NW-061MSD

Tot Ion	Ratio	Resp	Lower	Upper
113	100	703754		
111	102.1	81.3	121.9	
192	20.9	18.1	27.1	

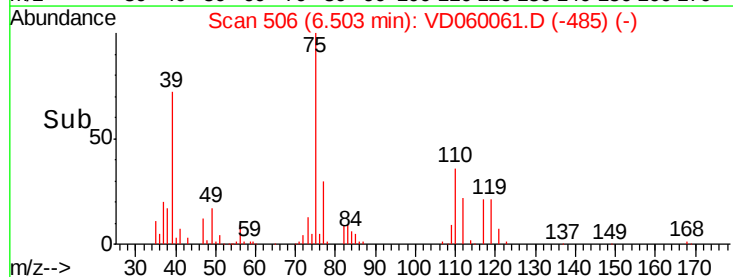
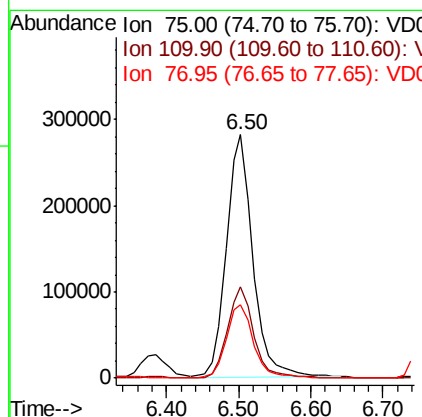
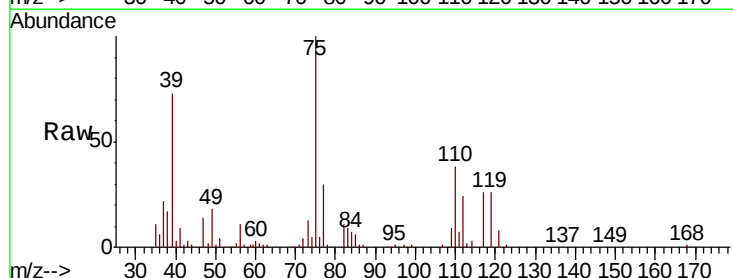
Manual Integrations
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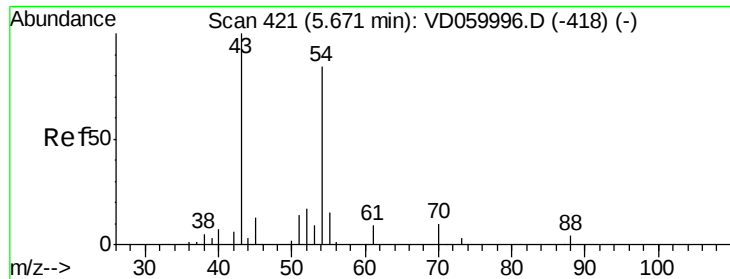
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#36
1,1-Dichloropropene
Concen: 43.496 ug/l
RT: 6.50 min Scan# 506
Delta R.T. 0.01 min
Lab File: VD060061.D
Acq: 20 Sep 2018 21:25

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	711355		
110	37.6	18.9	56.9	
77	30.2	25.3	37.9	





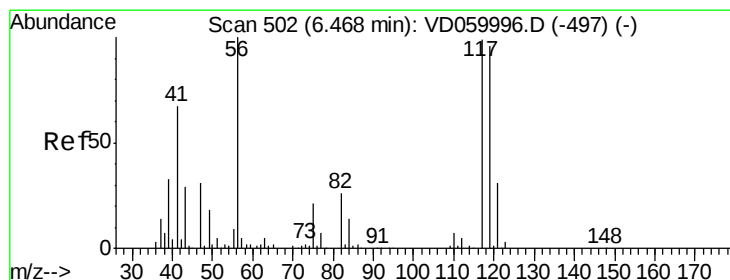
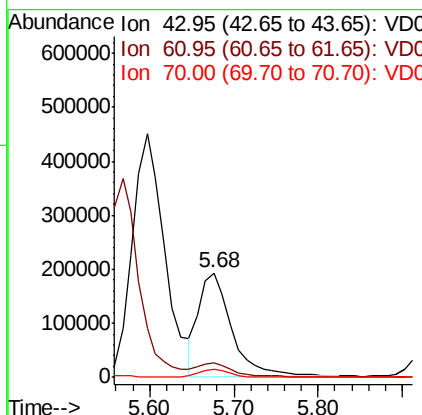
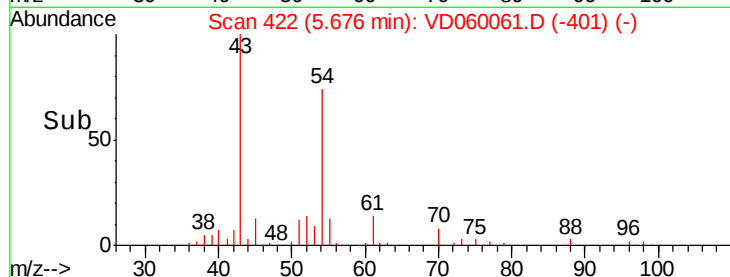
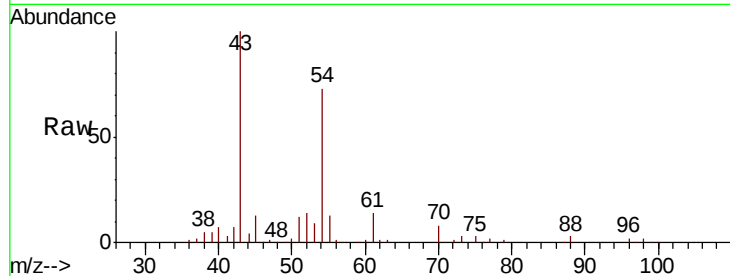
#37
Ethyl Acetate
Concen: 45.961 ug/l
RT: 5.68 min Scan# 422
Delta R.T. 0.01 min
Lab File: VD060061.D
Acq: 20 Sep 2018 21:25

Instrument :
MSVOA_D
ClientSampleId :
RA-091918-S-NW-061MSD

Tot Ion	Ratio	Lower	Upper
43	100		
61	14.1	10.2	15.2
70	7.7	6.1	9.1

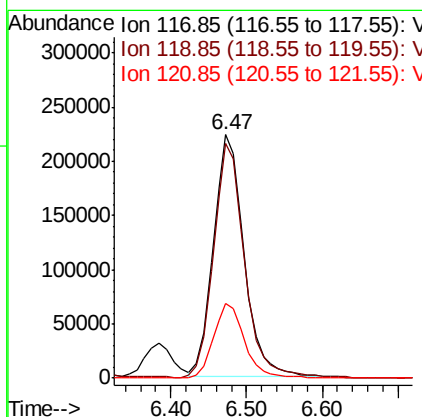
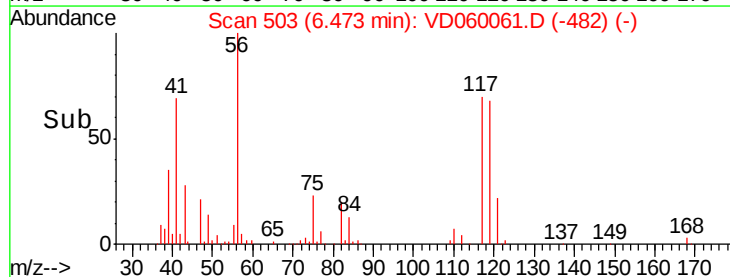
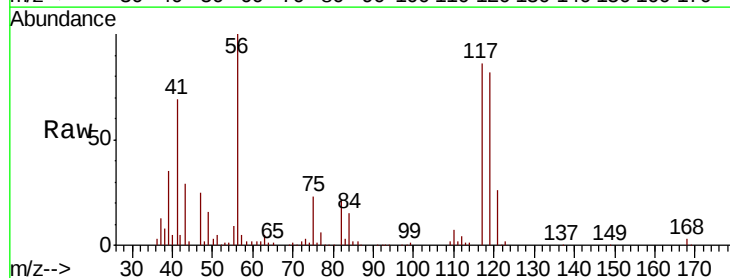
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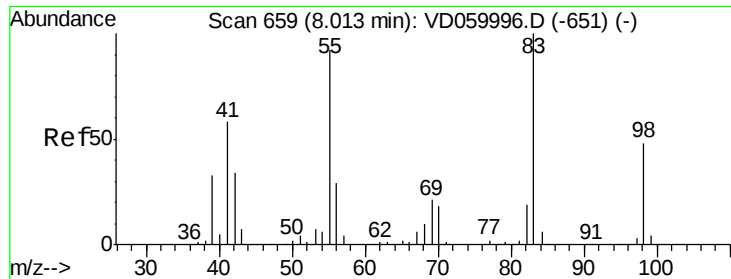
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#38
Carbon Tetrachloride
Concen: 41.354 ug/l
RT: 6.47 min Scan# 503
Delta R.T. 0.01 min
Lab File: VD060061.D
Acq: 20 Sep 2018 21:25

Tgt Ion	Ratio	Lower	Upper
117	100		
119	96.2	76.7	115.1
121	30.7	24.9	37.3





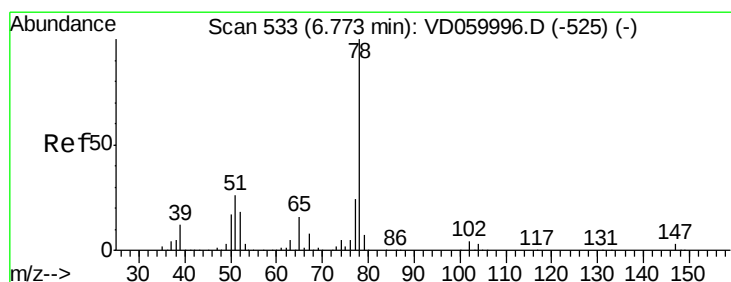
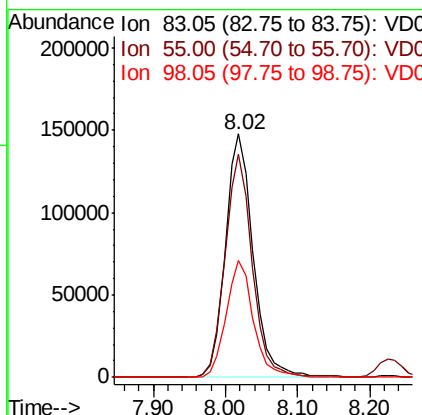
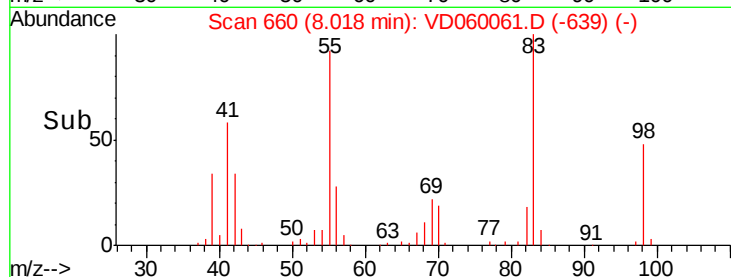
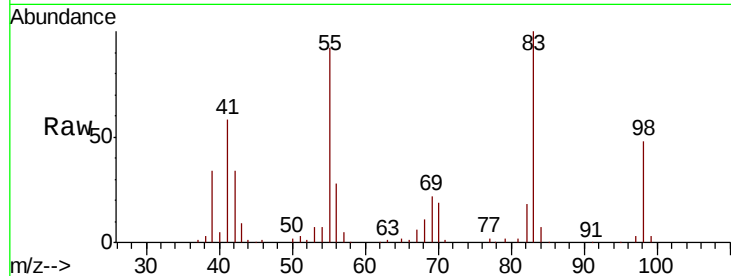
#39
Methvlcvclohexane
Concen: 21.293 ug/l
RT: 8.02 min Scan# 660
Delta R.T. 0.01 min
Lab File: VD060061.D
Acq: 20 Sep 2018 21:25

Instrument :
MSVOA_D
ClientSampleId :
RA-091918-S-NW-061MSD

Tot Ion	Ratio	Resp	Lower	Upper
83	100			
55	91.8	73.8	110.6	
98	47.9	38.1	57.1	

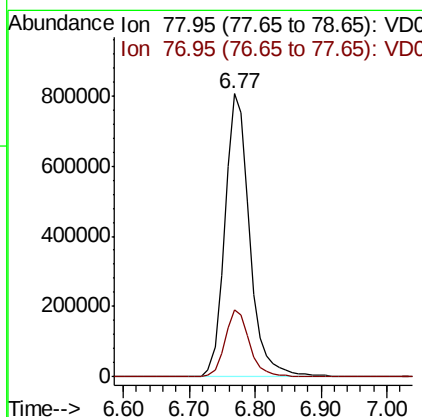
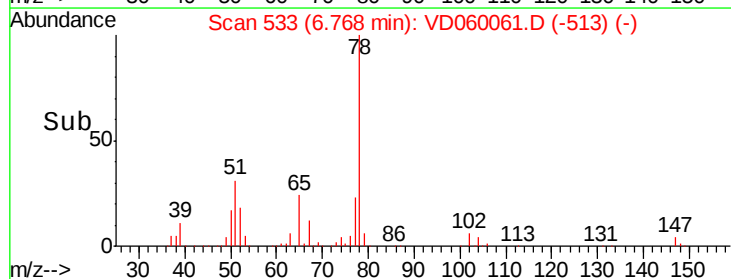
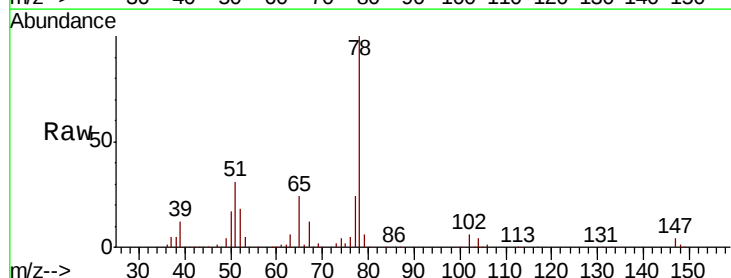
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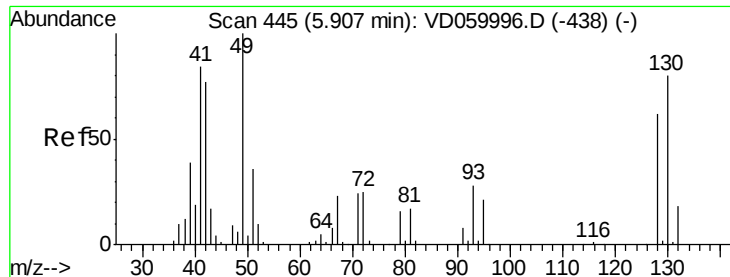
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#40
Benzene
Concen: 50.837 ug/l
RT: 6.77 min Scan# 533
Delta R.T. -0.00 min
Lab File: VD060061.D
Acq: 20 Sep 2018 21:25

Tgt Ion	Ratio	Resp	Lower	Upper
78	100			
77	23.7	19.0	28.4	





#41

Methacrylonitrile

Concen: 44.857 ug/l m

RT: 5.89 min Scan# 444

Delta R.T. -0.01 min

Lab File: VD060061.D

Acq: 20 Sep 2018 21:25

Instrument :

MSVOA_D

ClientSampleId :

RA-091918-S-NW-061MSD

Tot Ion: 41 Resp: 264234

Ion Ratio Lower Upper

41 100

39 48.2 37.5 56.3

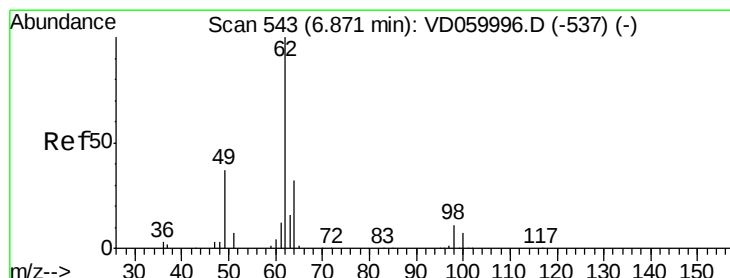
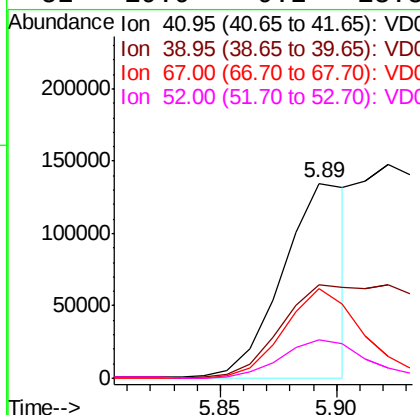
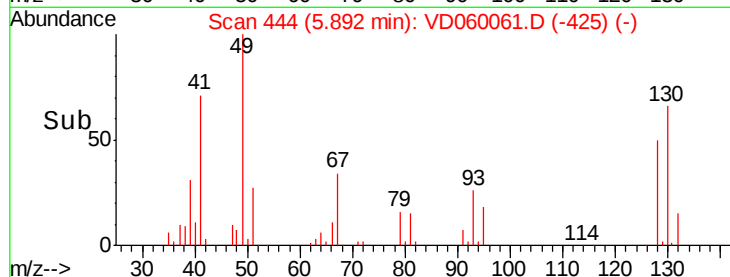
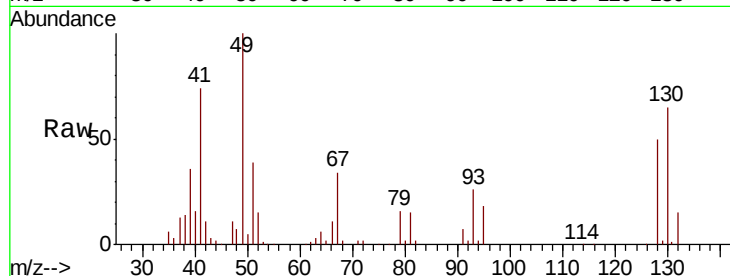
67 46.0 21.5 32.3#

52 19.9 9.2 13.8#

Manual Integrations
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#42

1,2-Dichloroethane

Concen: 51.810 ug/l

RT: 6.88 min Scan# 544

Delta R.T. 0.01 min

Lab File: VD060061.D

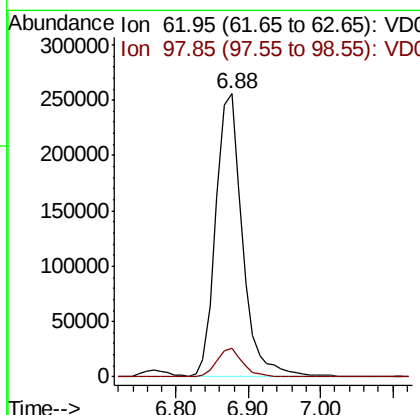
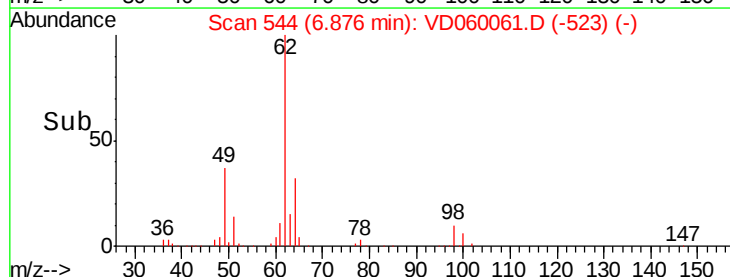
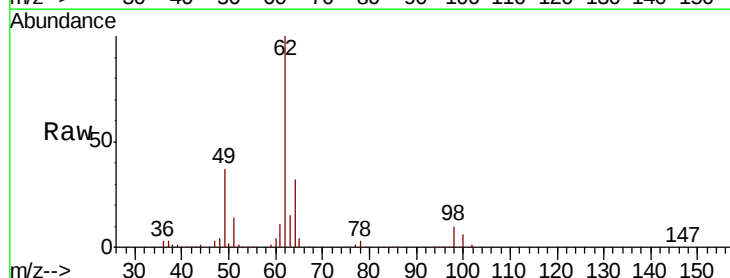
Acq: 20 Sep 2018 21:25

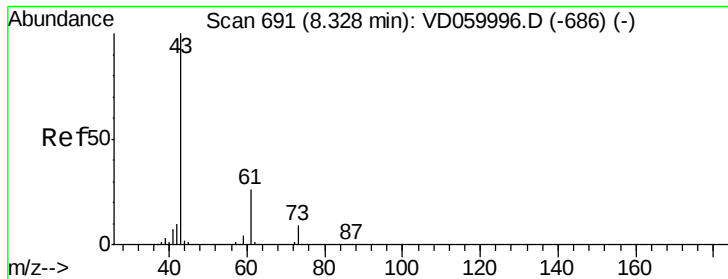
Tgt Ion: 62 Resp: 648464

Ion Ratio Lower Upper

62 100

98 10.2 0.0 21.4





#43

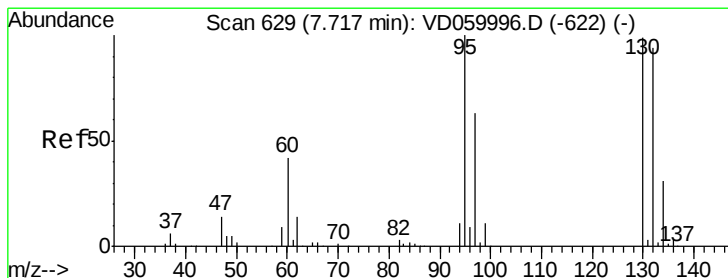
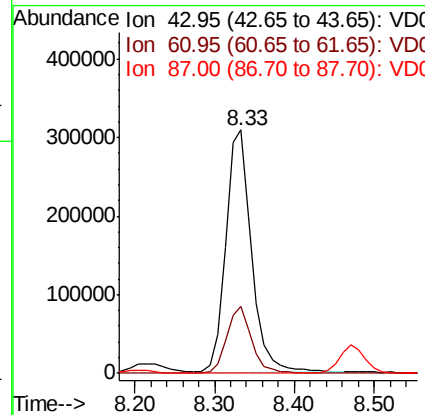
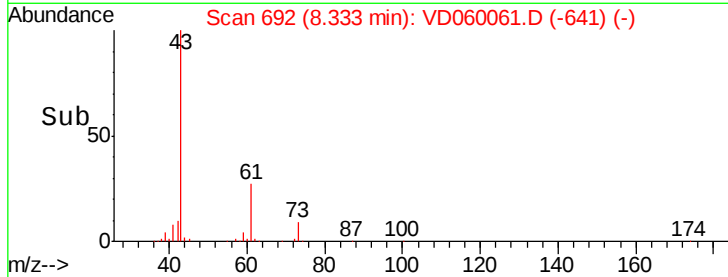
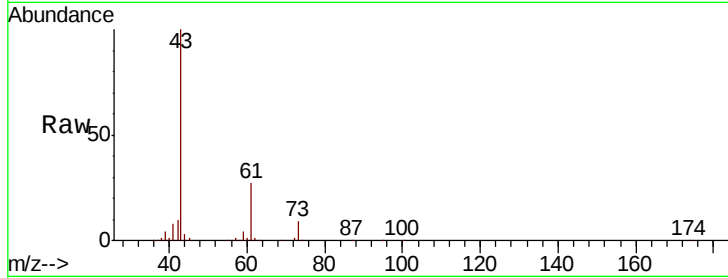
Isopropyl Acetate
 Concen: 46.416 ug/l
 RT: 8.33 min Scan# 692
 Delta R.T. 0.01 min
 Lab File: VD060061.D
 Acq: 20 Sep 2018 21:25

Instrument :
 MSVOA_D
 ClientSampleId :
 RA-091918-S-NW-061MSD

Tot Ion	Ratio	Lower	Upper
43	100		
61	27.4	21.0	31.6
87	0.3	0.2	0.2#

Manual Integrations
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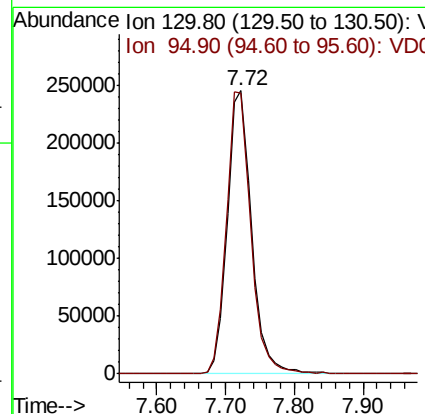
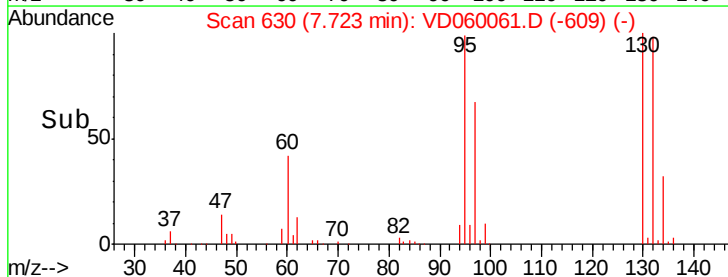
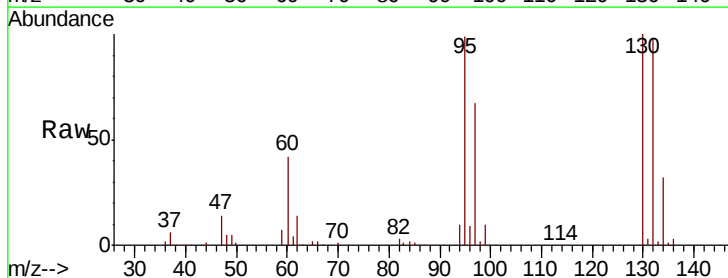
apatel
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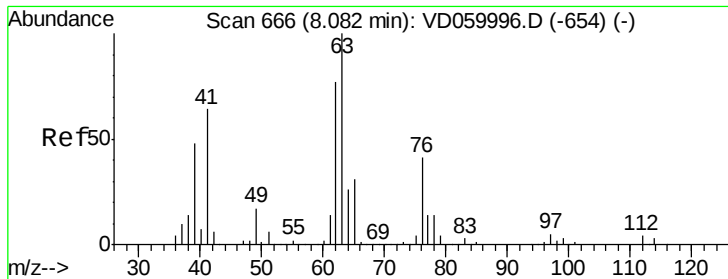


#44

Trichloroethene
 Concen: 46.586 ug/l
 RT: 7.72 min Scan# 630
 Delta R.T. 0.01 min
 Lab File: VD060061.D
 Acq: 20 Sep 2018 21:25

Tgt Ion	Ratio	Lower	Upper
130	100		
95	99.4	0.0	202.0





#45

1,2-Dichloropropane

Concen: 51.295 ug/l

RT: 8.09 min Scan# 667

Delta R.T. 0.01 min

Lab File: VD060061.D

Acq: 20 Sep 2018 21:25

Instrument :

MSVOA_D

ClientSampleId :

RA-091918-S-NW-061MSD

Tot Ion: 63 Resp: 571748

Ion Ratio Lower Upper

63 100

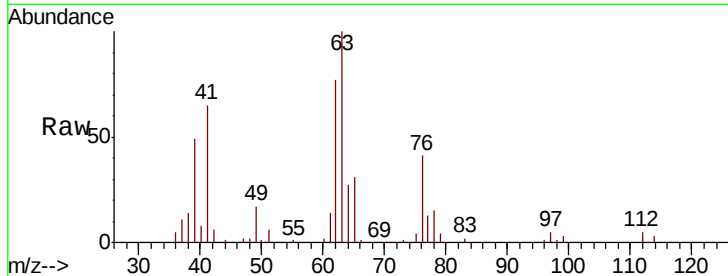
65 30.7 24.6 37.0

Manual Integrations

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Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 64.95 (64.65 to 65.65): VDC

250000

200000

150000

100000

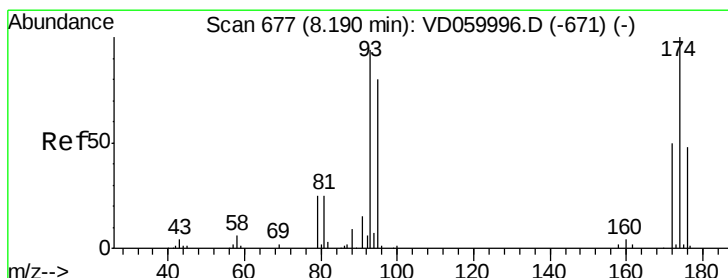
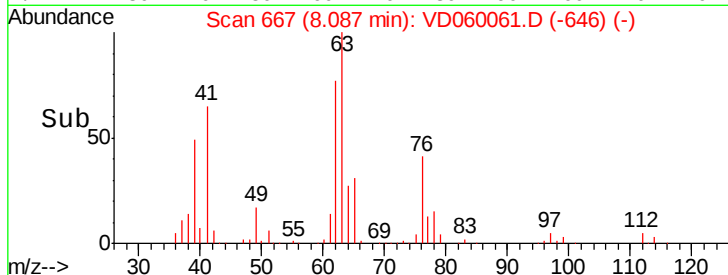
50000

0

8.09

8.00 8.10 8.20 8.30

Time-->



#46

Dibromomethane

Concen: 52.828 ug/l

RT: 8.20 min Scan# 678

Delta R.T. 0.01 min

Lab File: VD060061.D

Acq: 20 Sep 2018 21:25

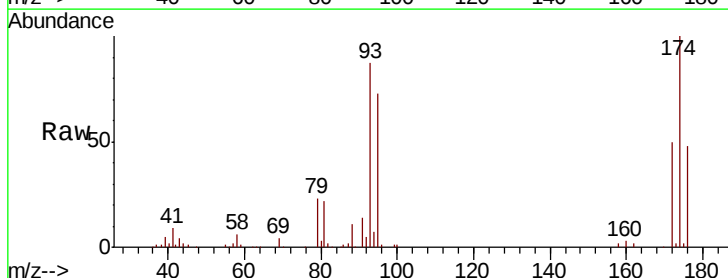
Tgt Ion: 93 Resp: 384199

Ion Ratio Lower Upper

93 100

95 84.1 68.0 102.0

174 115.4 85.4 128.2



Abundance Ion 92.90 (92.60 to 93.60): VDC

Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): V

250000

200000

150000

100000

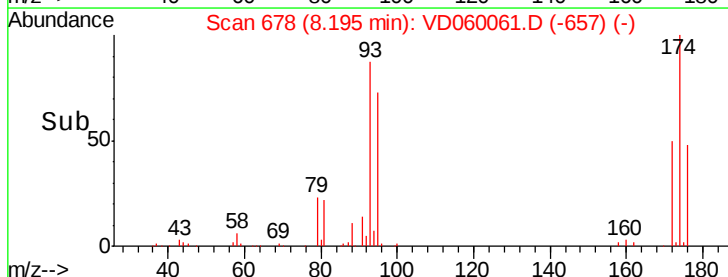
50000

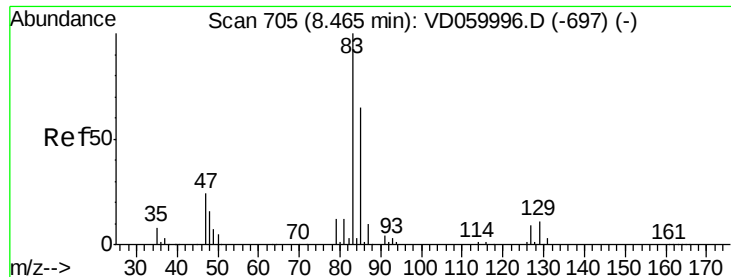
0

8.20

8.10 8.20 8.30 8.40

Time-->





#47

Bromodichloromethane

Concen: 50.758 ug/l

RT: 8.47 min Scan# 706

Delta R.T. 0.01 min

Lab File: VD060061.D

Acq: 20 Sep 2018 21:25

Instrument :

MSVOA_D

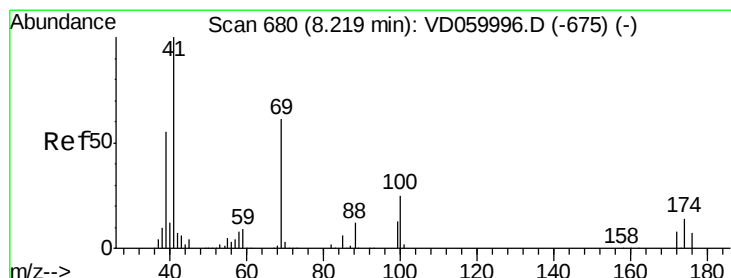
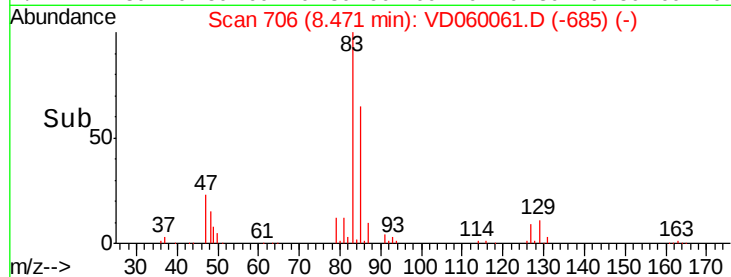
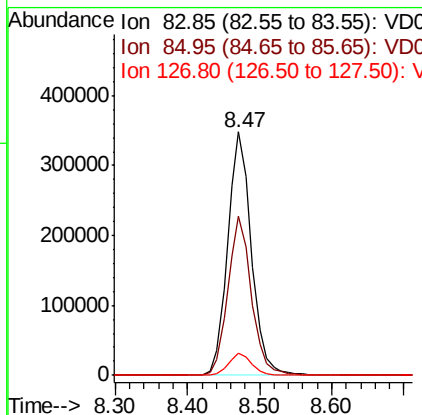
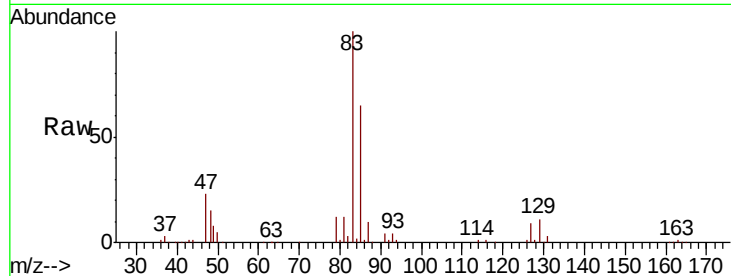
ClientSampleId :

RA-091918-S-NW-061MSD

Tot Ion:	83	Resp:	795867
Ion Ratio	Lower	Upper	
83	100		
85	65.1	51.9	77.9
127	9.1	6.8	10.2

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#48

Methyl methacrylate

Concen: 54.629 ug/l

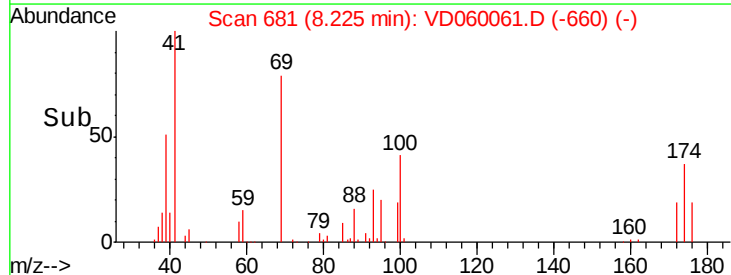
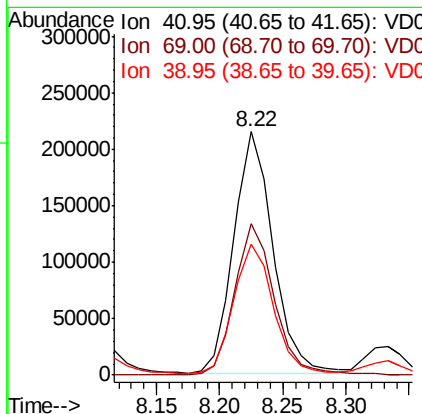
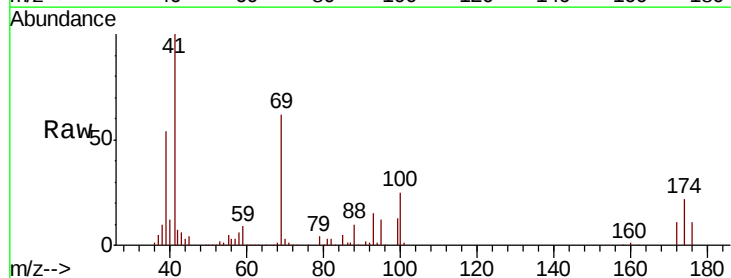
RT: 8.22 min Scan# 681

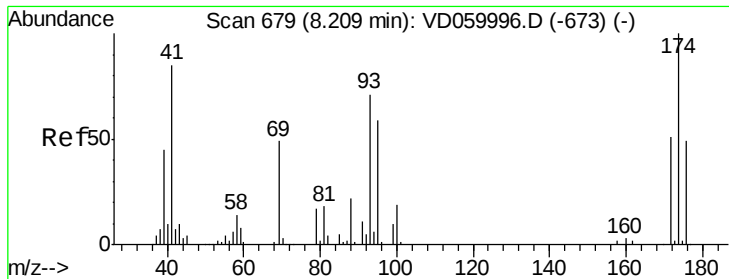
Delta R.T. 0.01 min

Lab File: VD060061.D

Acq: 20 Sep 2018 21:25

Tgt Ion:	41	Resp:	458154
Ion Ratio	Lower	Upper	
41	100		
69	62.3	48.3	72.5
39	53.6	44.1	66.1





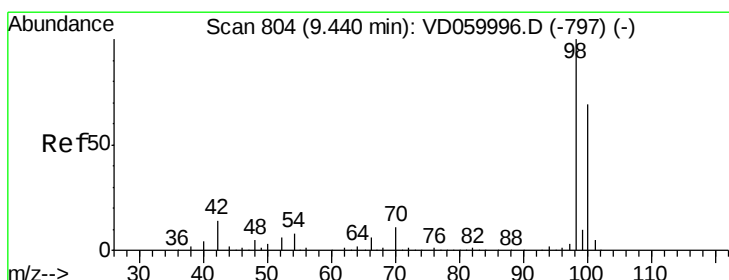
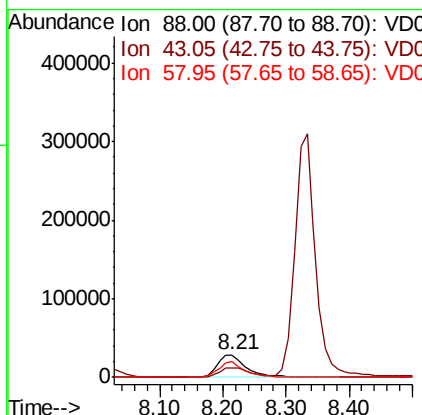
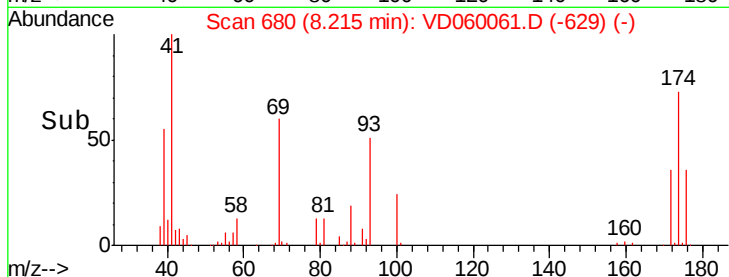
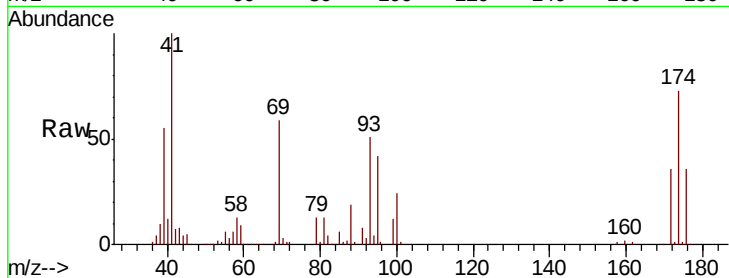
#49
1,4-Dioxane
Concen: 1068.765 ug/l
RT: 8.21 min Scan# 680
Delta R.T. 0.01 min
Lab File: VD060061.D
Acq: 20 Sep 2018 21:25

Instrument :
MSVOA_D
ClientSampleId :
RA-091918-S-NW-061MSD

Tot Ion	Ratio	Lower	Upper
88	100		
43	43.1	36.2	54.2
58	67.2	51.0	76.6

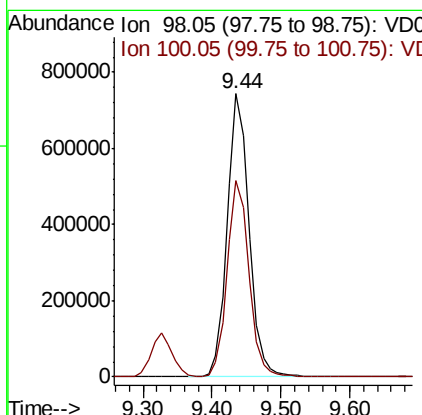
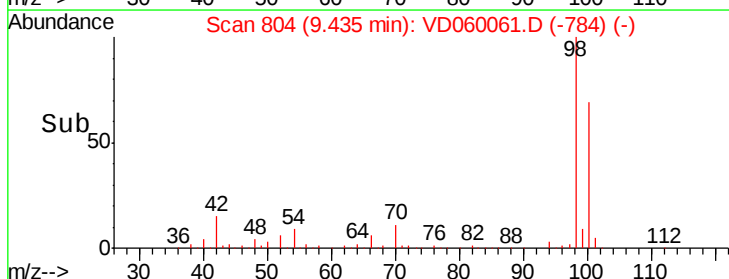
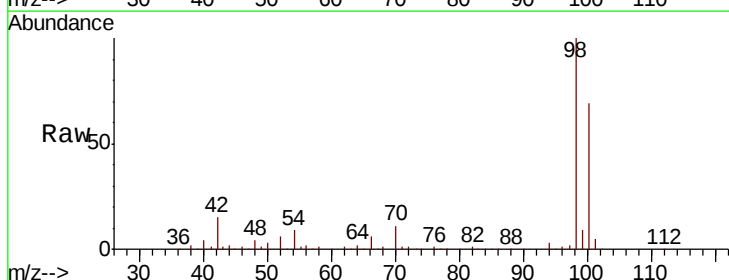
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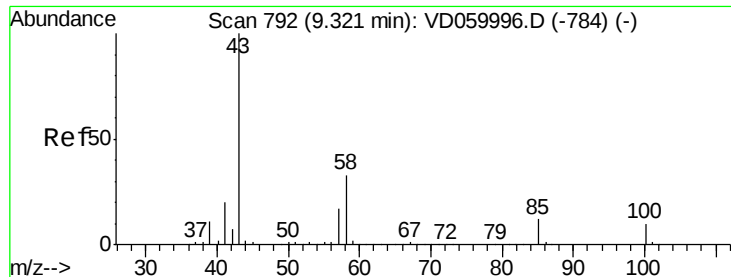
apatel
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#50
Toluene-d8
Concen: 1068.765 ug/l
RT: 9.44 min Scan# 804
Delta R.T. -0.00 min
Lab File: VD060061.D
Acq: 20 Sep 2018 21:25

Tgt Ion	Ratio	Lower	Upper
98	100		
100	69.5	55.8	83.6





#51

4-Methyl-2-Pentanone

Concen: 243.073 ug/l

RT: 9.33 min Scan# 793

Delta R.T. 0.01 min

Lab File: VD060061.D

Acq: 20 Sep 2018 21:25

Instrument :

MSVOA_D

ClientSampleId :

RA-091918-S-NW-061MSD

Tot Ion: 43 Resp: 2417071

Ion Ratio Lower Upper

43 100

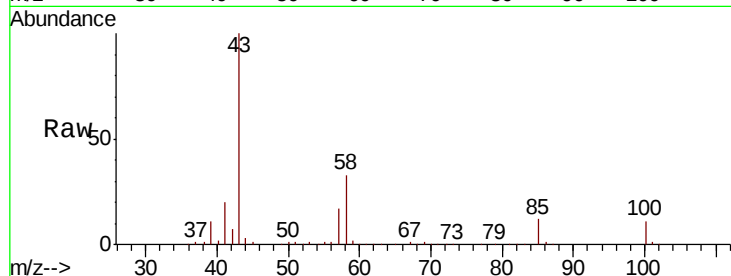
58 33.5 26.4 39.6

Manual Integrations

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Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

1200000

1000000

800000

600000

400000

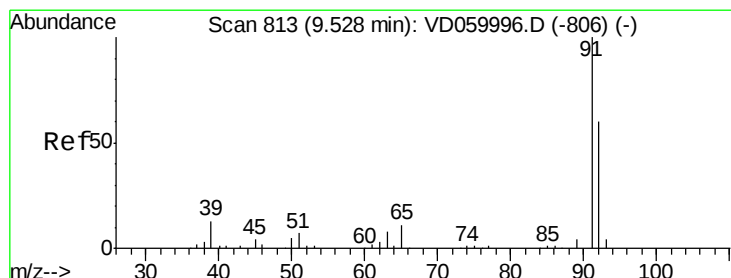
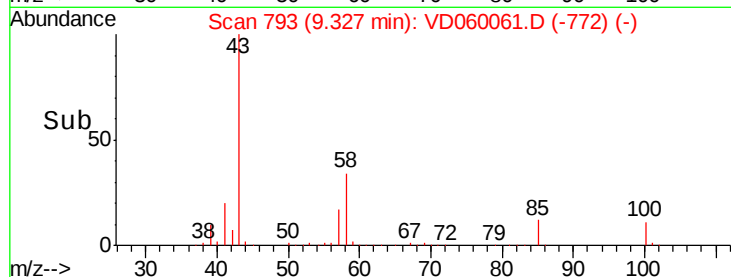
200000

0

9.33

9.20 9.30 9.40

Time-->



#52

Toluene

Concen: 44.708 ug/l

RT: 9.53 min Scan# 814

Delta R.T. 0.01 min

Lab File: VD060061.D

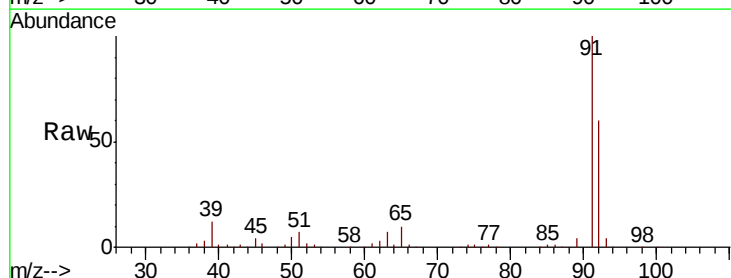
Acq: 20 Sep 2018 21:25

Tgt Ion: 92 Resp: 1194547

Ion Ratio Lower Upper

92 100

91 167.9 132.3 198.5



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC

1000000

800000

600000

400000

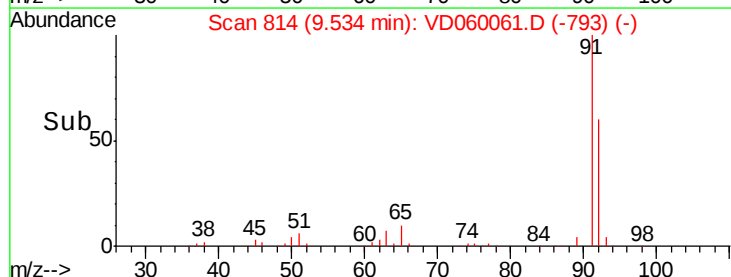
200000

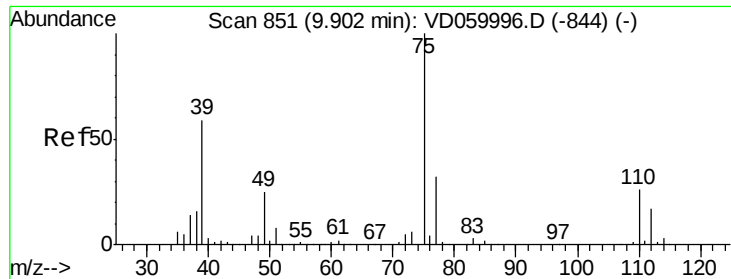
0

9.53

9.40 9.50 9.60 9.70

Time-->





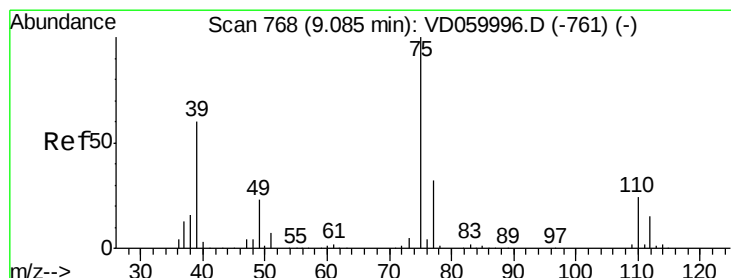
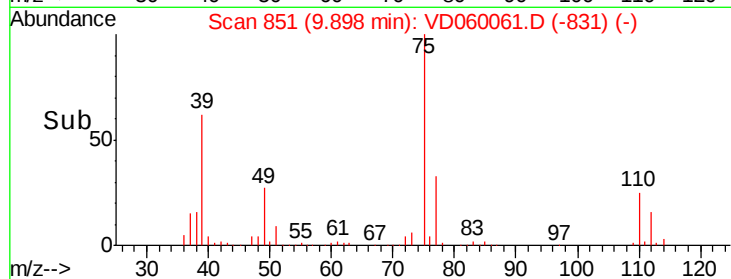
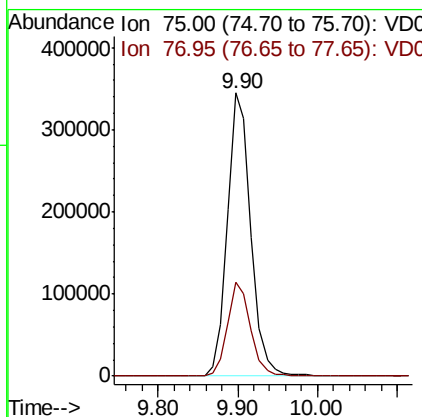
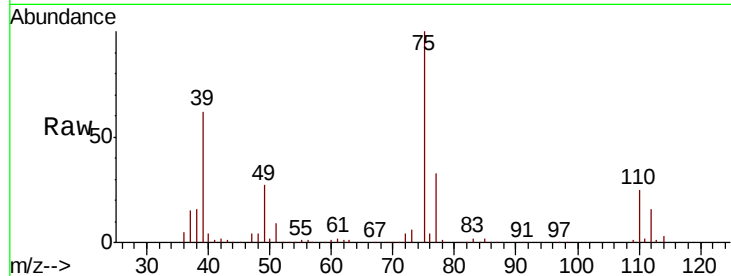
#53
 t-1,3-Dichloropropene
 Concen: 48.578 ug/l
 RT: 9.90 min Scan# 851
 Delta R.T. -0.00 min
 Lab File: VD060061.D
 Acq: 20 Sep 2018 21:25

Instrument :
 MSVOA_D
 ClientSampleId :
 RA-091918-S-NW-061MSD

Tot Ion: 75 Resp: 710400
 Ion Ratio Lower Upper
 75 100
 77 33.3 25.6 38.4

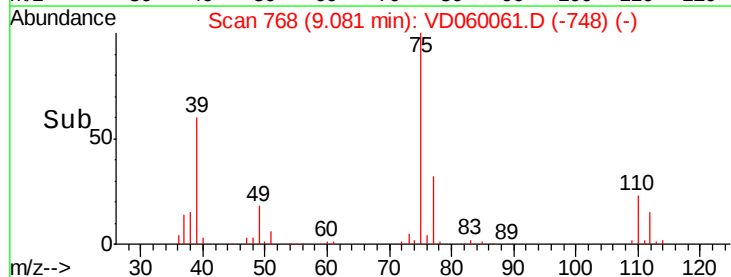
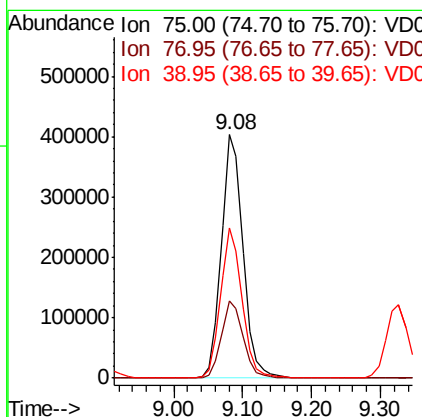
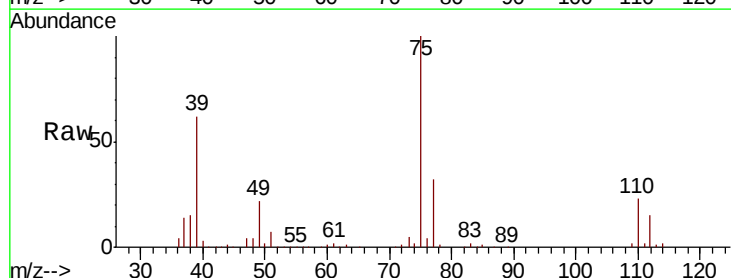
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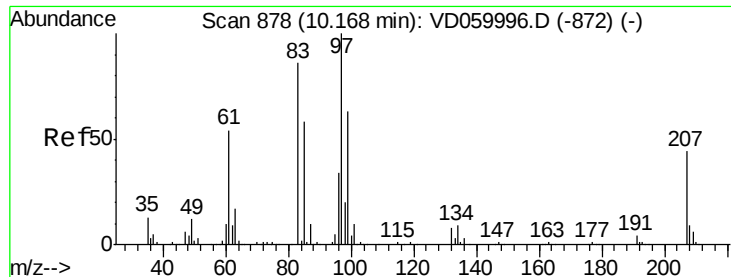
apatel
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#54
 cis-1,3-Dichloropropene
 Concen: 50.024 ug/l
 RT: 9.08 min Scan# 768
 Delta R.T. -0.00 min
 Lab File: VD060061.D
 Acq: 20 Sep 2018 21:25

Tgt Ion: 75 Resp: 874043
 Ion Ratio Lower Upper
 75 100
 77 31.8 25.5 38.3
 39 61.6 48.0 72.0





#55

1,1,2-Trichloroethane

Concen: 47.734 ug/l

RT: 10.16 min Scan# 878

Delta R.T. -0.00 min

Lab File: VD060061.D

Acq: 20 Sep 2018 21:25

Instrument :

MSVOA_D

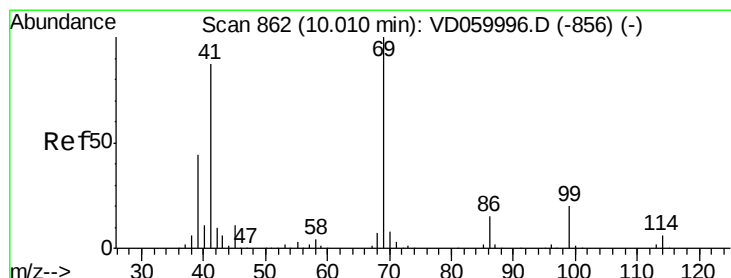
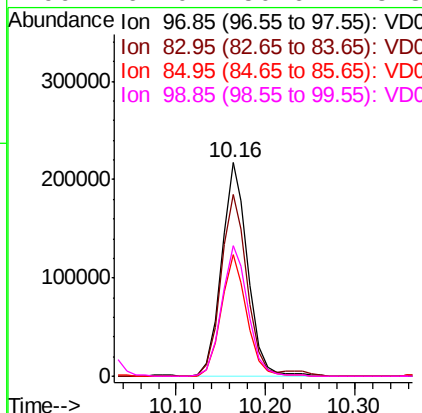
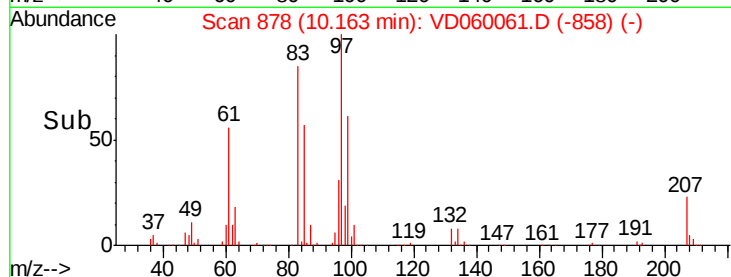
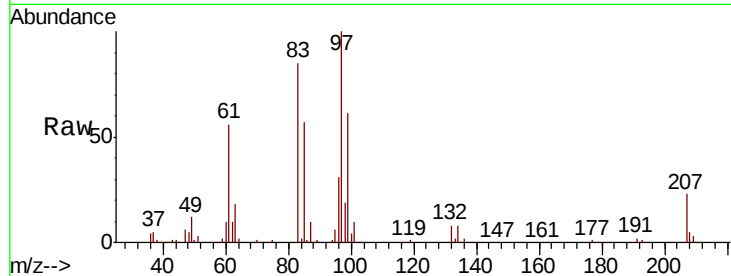
ClientSampleId :

RA-091918-S-NW-061MSD

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		442818		
83	85.0	69.1	103.7		
85	56.9	46.2	69.4		
99	61.0	50.6	75.8		

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#56

Ethyl methacrylate

Concen: 49.641 ug/l

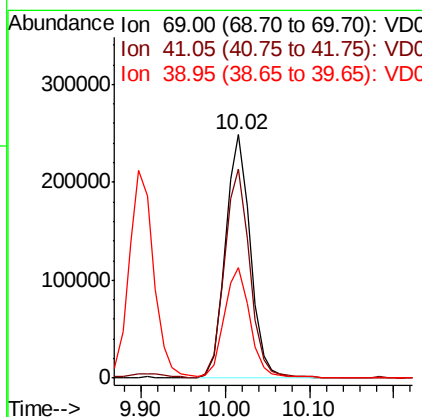
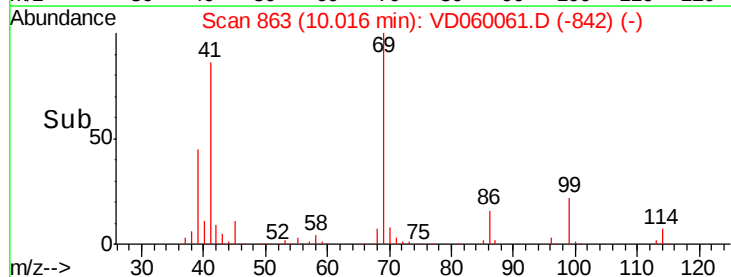
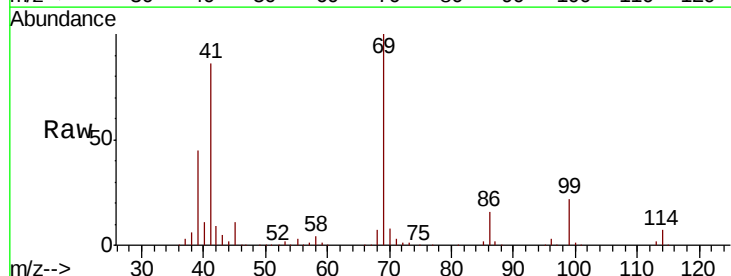
RT: 10.02 min Scan# 863

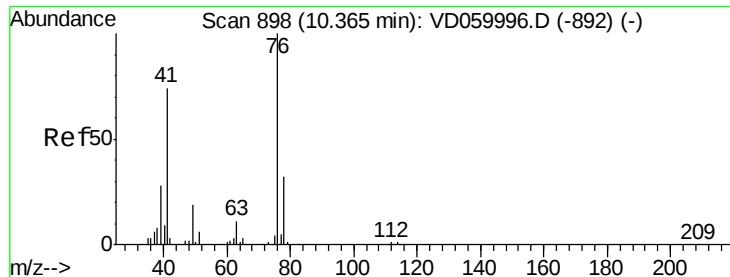
Delta R.T. 0.01 min

Lab File: VD060061.D

Acq: 20 Sep 2018 21:25

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
69	100		510784		
41	85.9	70.1	105.1		
39	45.4	36.5	54.7		





#57

1,3-Dichloropropane

Concen: 50.902 ug/l

RT: 10.37 min Scan# 899

Delta R.T. 0.01 min

Lab File: VD060061.D

Acq: 20 Sep 2018 21:25

Instrument :

MSVOA_D

ClientSampleId :

RA-091918-S-NW-061MSD

Tot Ion: 76 Resp: 697024

Ion Ratio Lower Upper

76 100

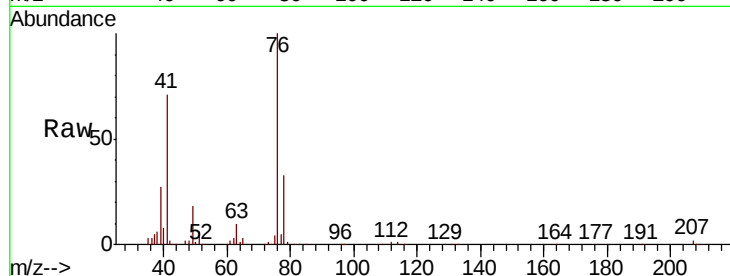
78 32.5 25.3 37.9

Manual Integrations

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Abundance Ion 75.95 (75.65 to 76.65): VDC

Ion 77.95 (77.65 to 78.65): VDC

10.37

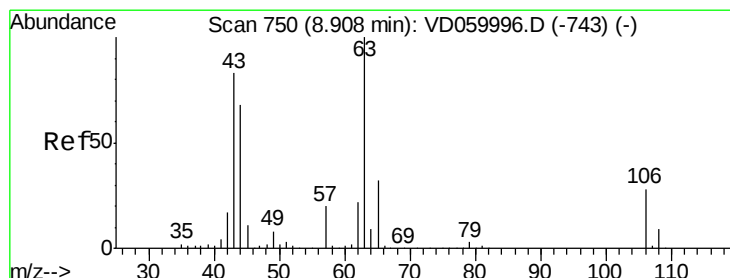
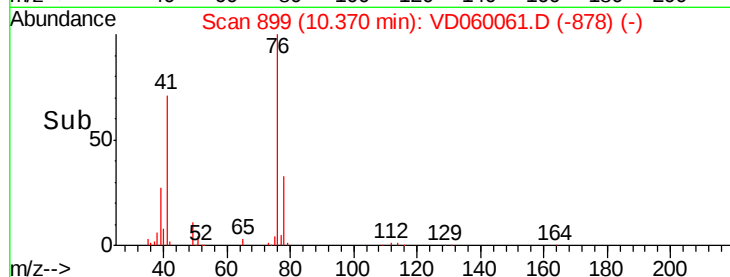
300000

200000

100000

0

Time-->



#58

2-Chloroethyl Vinyl ether

Concen: 276.639 ug/l

RT: 8.90 min Scan# 750

Delta R.T. -0.00 min

Lab File: VD060061.D

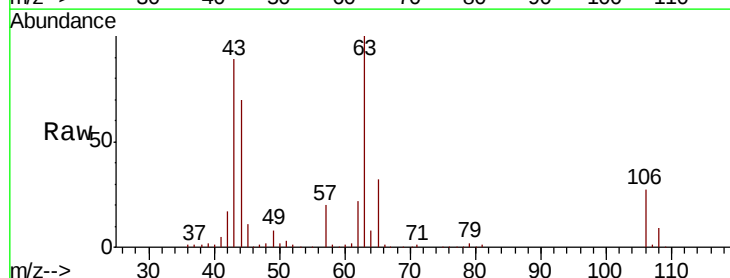
Acq: 20 Sep 2018 21:25

Tgt Ion: 63 Resp: 1374554

Ion Ratio Lower Upper

63 100

106 26.6 22.0 33.0



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 105.95 (105.65 to 106.65): VDC

8.90

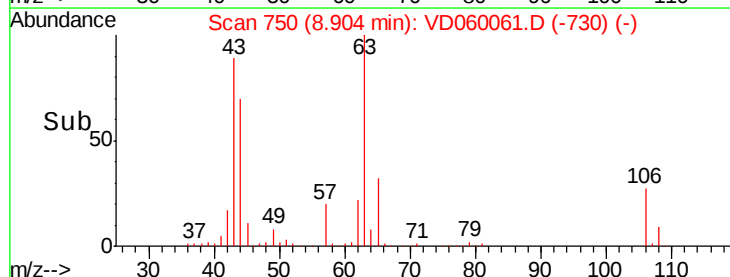
600000

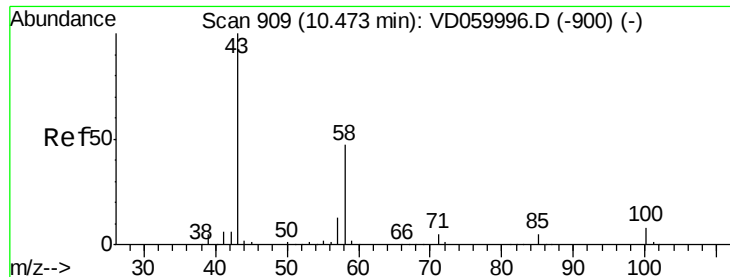
400000

200000

0

Time-->





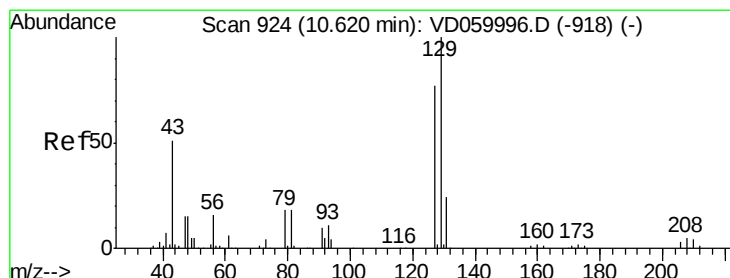
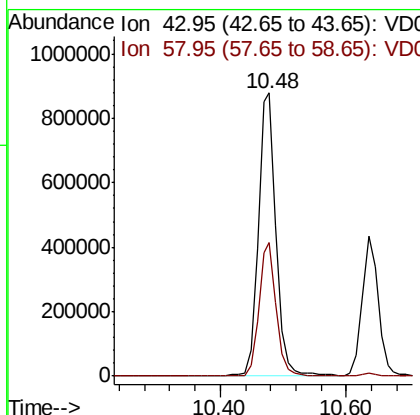
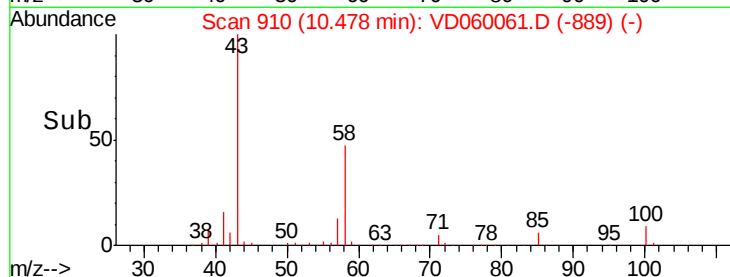
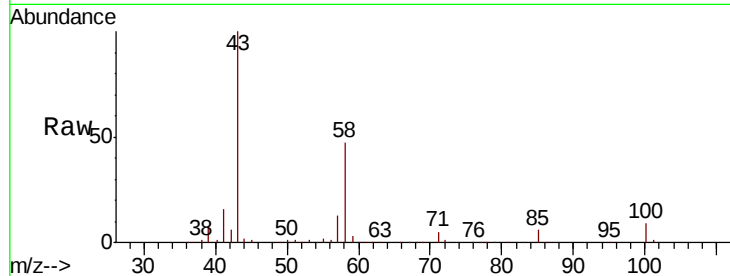
#59
2-Hexanone
Concen: 244.729 ug/l
RT: 10.48 min Scan# 910
Delta R.T. 0.01 min
Lab File: VD060061.D
Acq: 20 Sep 2018 21:25

Instrument :
MSVOA_D
ClientSampleId :
RA-091918-S-NW-061MSD

Tot Ion: 43 Resp: 1738336
Ion Ratio Lower Upper
43 100
58 47.4 23.4 70.0

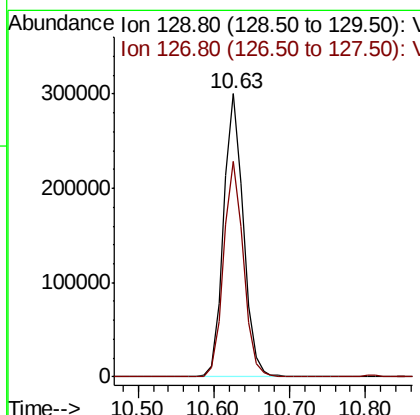
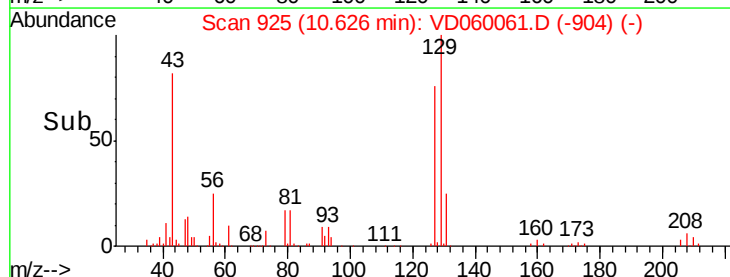
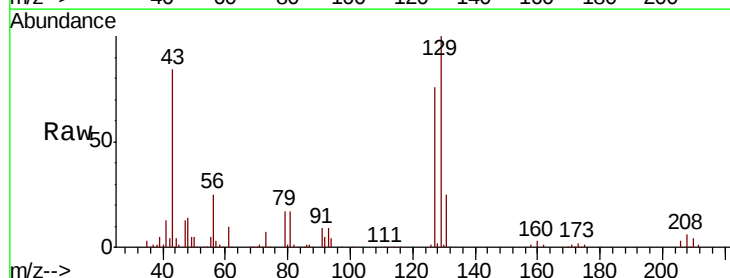
Manual Integrations
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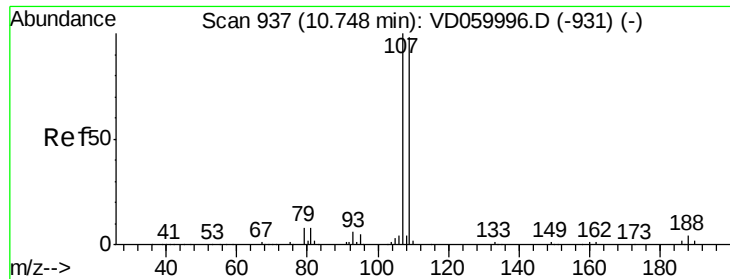
apatel
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#60
Dibromochloromethane
Concen: 47.986 ug/l
RT: 10.63 min Scan# 925
Delta R.T. 0.01 min
Lab File: VD060061.D
Acq: 20 Sep 2018 21:25

Tgt Ion: 129 Resp: 541825
Ion Ratio Lower Upper
129 100
127 76.2 38.6 116.0





#61

1,2-Dibromoethane

Concen: 49.766 ug/l

RT: 10.74 min Scan# 937

Delta R.T. -0.00 min

Lab File: VD060061.D

Acq: 20 Sep 2018 21:25

Instrument :

MSVOA_D

ClientSampleId :

RA-091918-S-NW-061MSD

Tot Ion:107 Resp: 476660

Ion Ratio Lower Upper

107 100

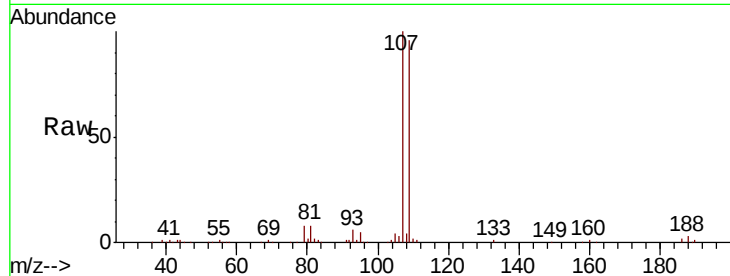
109 95.7 78.2 117.2

Manual Integrations

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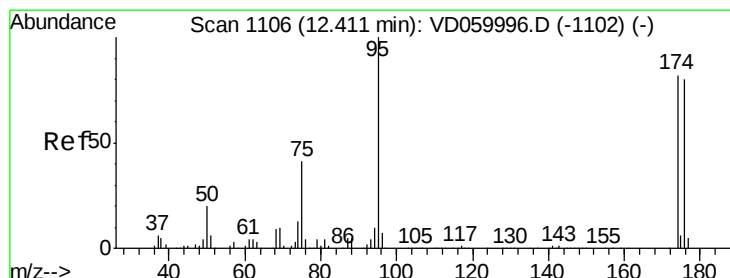
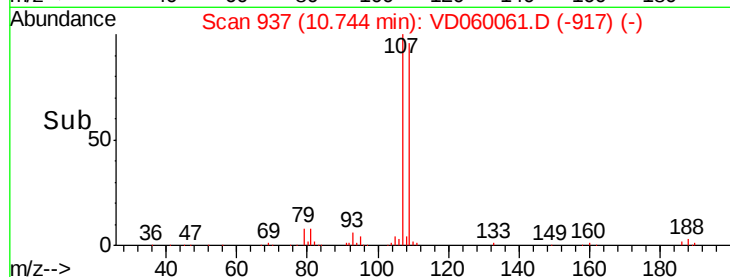
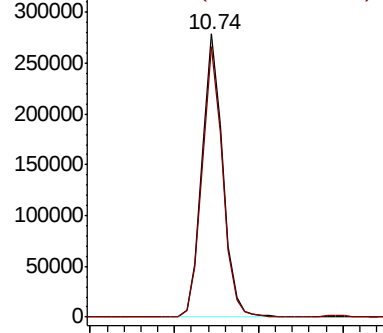
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Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.90 (108.60 to 109.60): V



#62

4-Bromofluorobenzene

Concen: 49.766 ug/l

RT: 12.42 min Scan# 1107

Delta R.T. 0.01 min

Lab File: VD060061.D

Acq: 20 Sep 2018 21:25

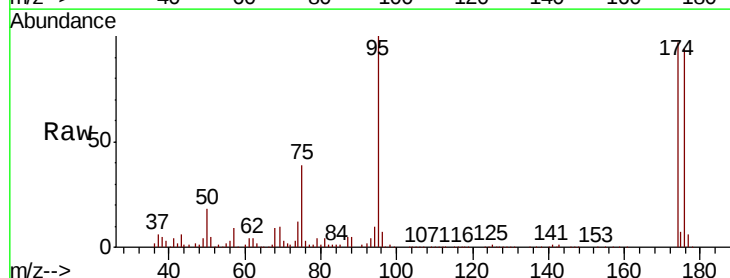
Tgt Ion: 95 Resp: 563174

Ion Ratio Lower Upper

95 100

174 96.7 0.0 165.0

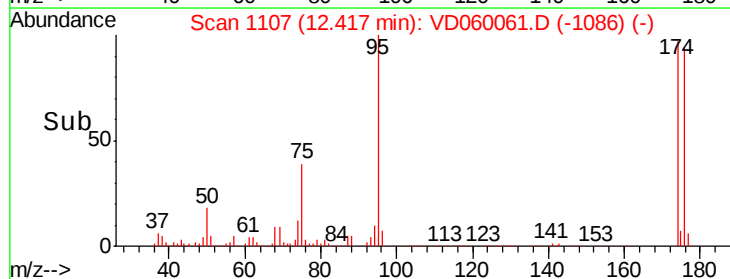
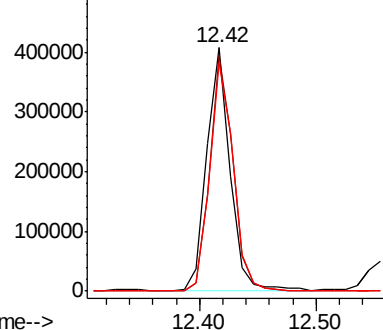
176 94.0 0.0 160.2



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





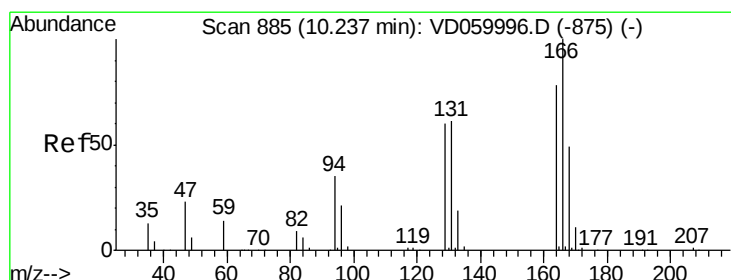
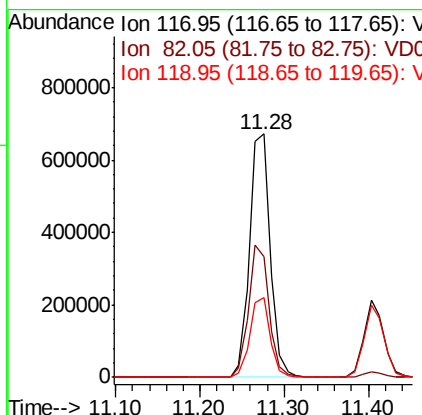
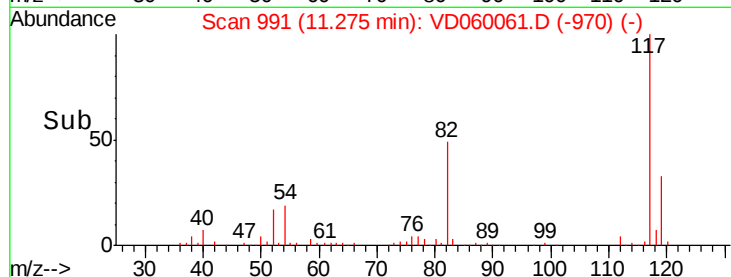
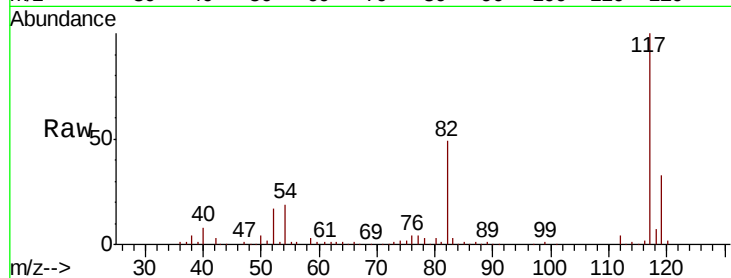
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.28 min Scan# 991
Delta R.T. 0.01 min
Lab File: VD060061.D
Acq: 20 Sep 2018 21:25

Instrument :
MSVOA_D
ClientSampleId :
RA-091918-S-NW-061MSD

Tot Ion:117 Resp: 1160145
Ion Ratio Lower Upper
117 100
82 49.4 41.7 62.5
119 32.8 26.0 39.0

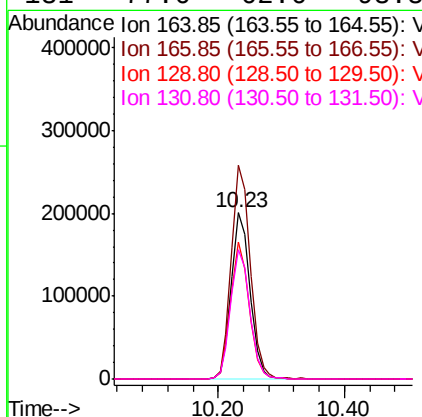
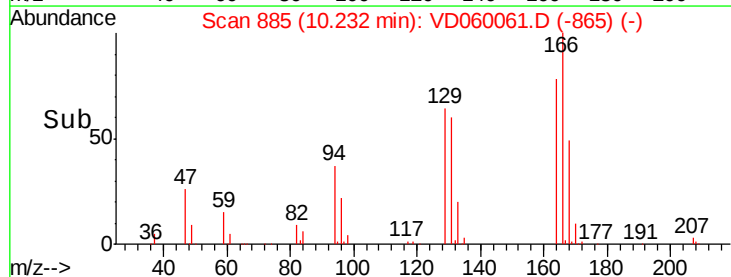
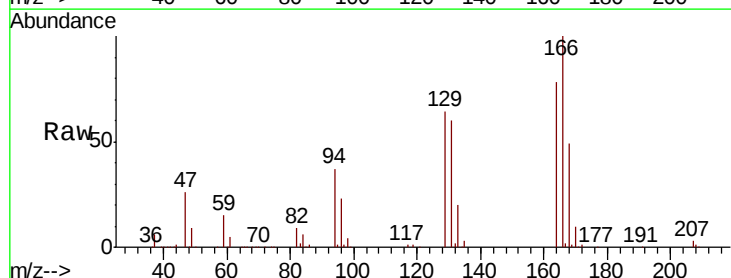
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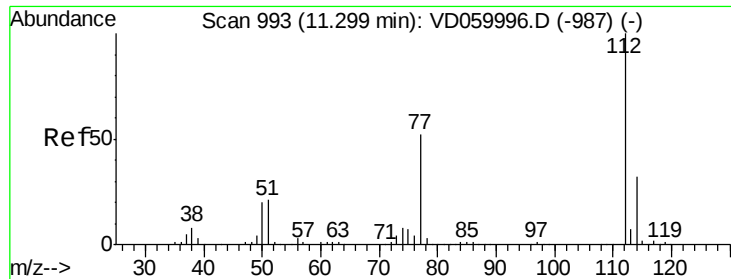
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#64
Tetrachloroethene
Concen: 40.301 ug/l
RT: 10.23 min Scan# 885
Delta R.T. -0.00 min
Lab File: VD060061.D
Acq: 20 Sep 2018 21:25

Tgt Ion:164 Resp: 412514
Ion Ratio Lower Upper
164 100
166 128.5 103.0 154.6
129 82.3 61.9 92.9
131 77.6 62.6 93.8





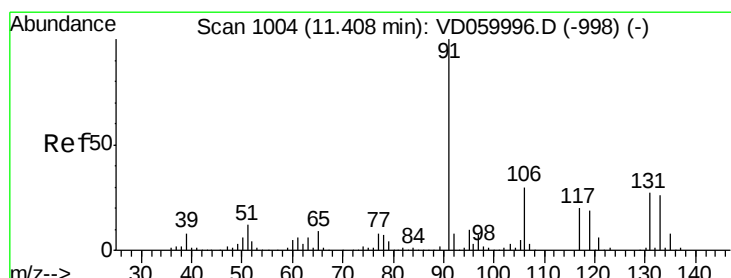
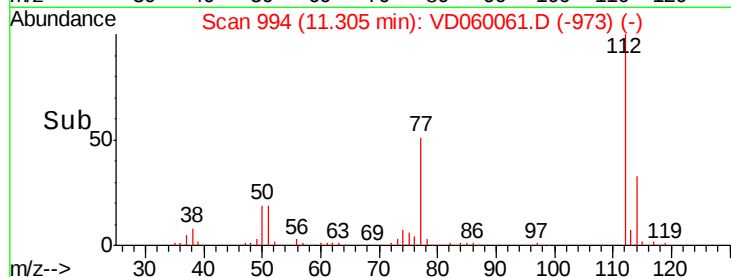
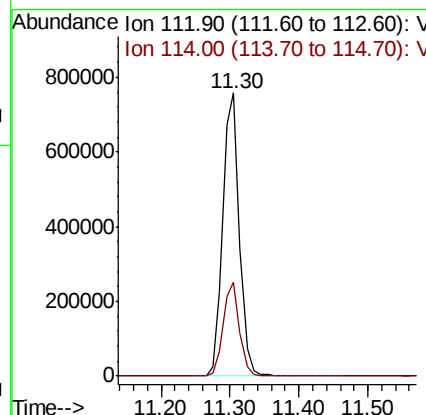
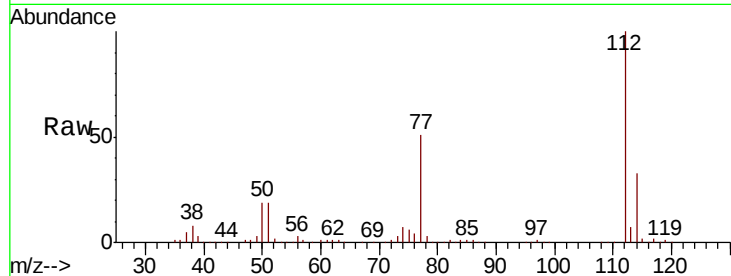
#65
Chlorobenzene
Concen: 50.441 ug/l
RT: 11.30 min Scan# 994
Delta R.T. 0.01 min
Lab File: VD060061.D
Acq: 20 Sep 2018 21:25

Instrument :
MSVOA_D
ClientSampleId :
RA-091918-S-NW-061MSD

Tot Ion:112 Resp: 1258140
Ion Ratio Lower Upper
112 100
114 33.2 25.3 37.9

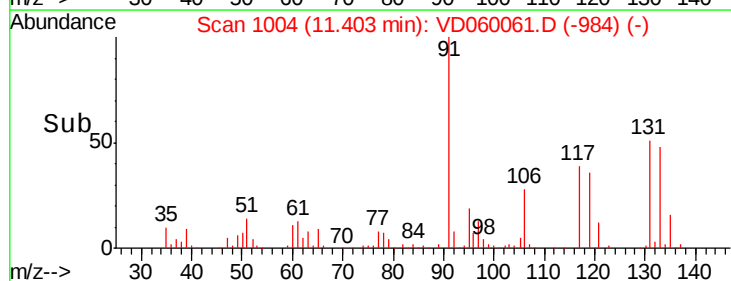
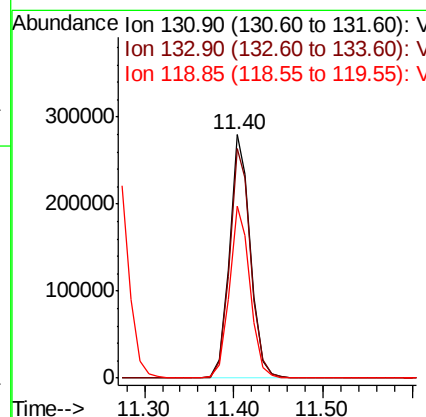
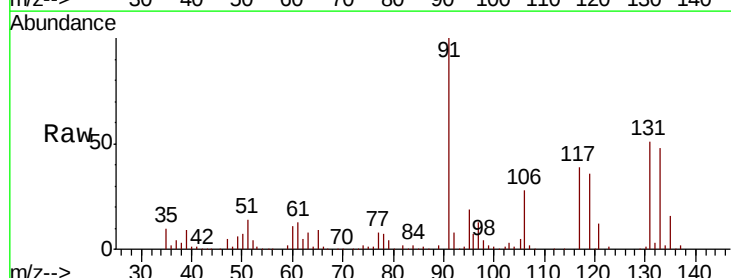
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#66
1,1,1,2-Tetrachloroethane
Concen: 54.997 ug/l
RT: 11.40 min Scan# 1004
Delta R.T. -0.00 min
Lab File: VD060061.D
Acq: 20 Sep 2018 21:25

Tgt Ion:131 Resp: 462674
Ion Ratio Lower Upper
131 100
133 94.1 47.4 142.3
119 70.8 35.6 106.9





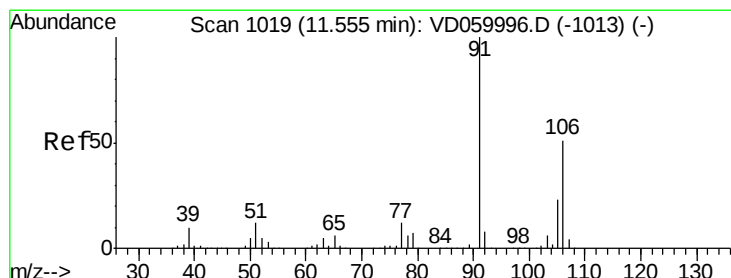
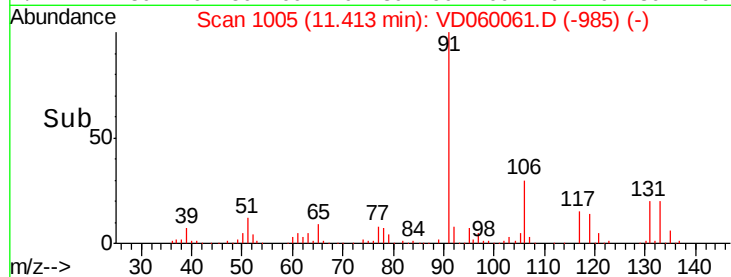
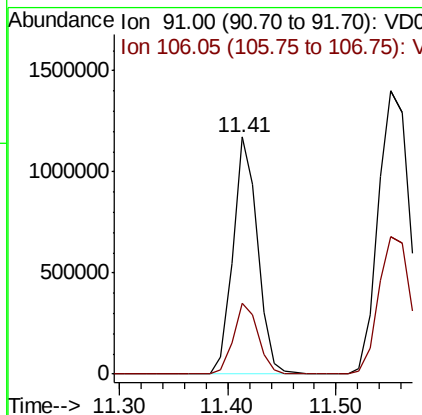
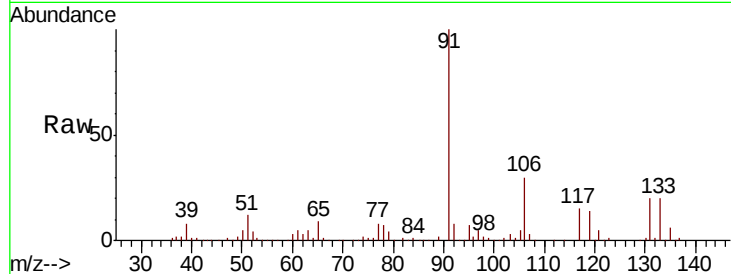
#67
Ethyl Benzene
Concen: 46.135 ug/l
RT: 11.41 min Scan# 1005
Delta R.T. -0.00 min
Lab File: VD060061.D
Acq: 20 Sep 2018 21:25

Instrument :
MSVOA_D
ClientSampleId :
RA-091918-S-NW-061MSD

Tot Ion: 91 Resp: 1851850
Ion Ratio Lower Upper
91 100
106 29.7 24.8 37.2

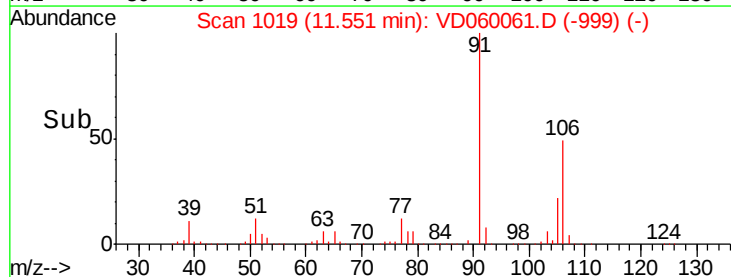
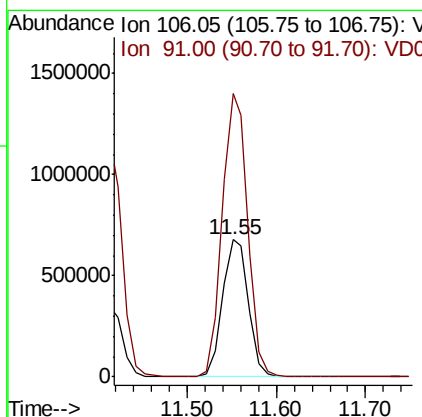
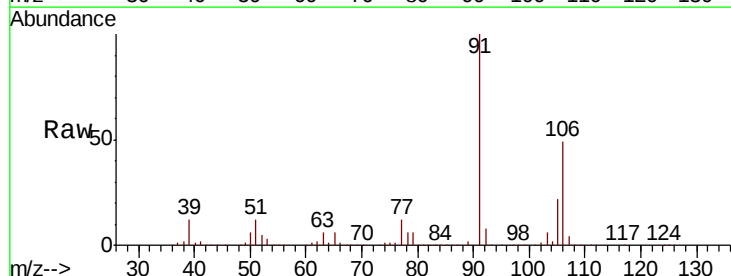
Manual Integrations
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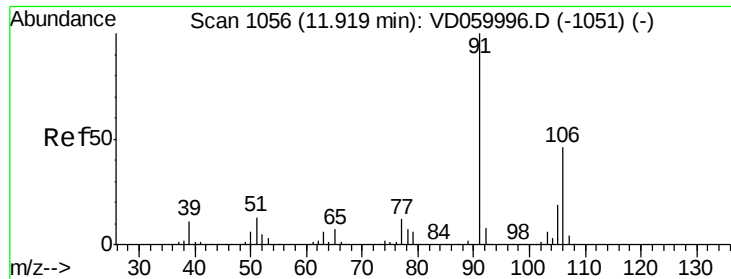
apatel
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#68
m/p-Xylenes
Concen: 92.755 ug/l
RT: 11.55 min Scan# 1019
Delta R.T. -0.00 min
Lab File: VD060061.D
Acq: 20 Sep 2018 21:25

Tgt Ion: 106 Resp: 1375048
Ion Ratio Lower Upper
106 100
91 206.0 157.0 235.6





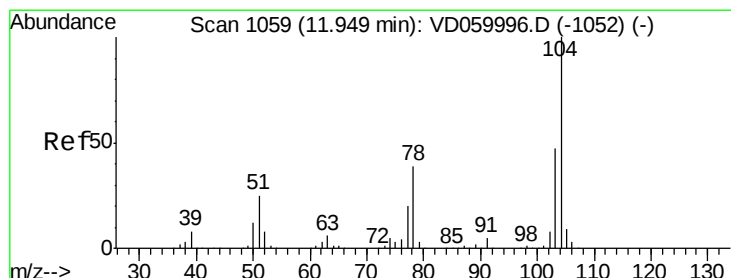
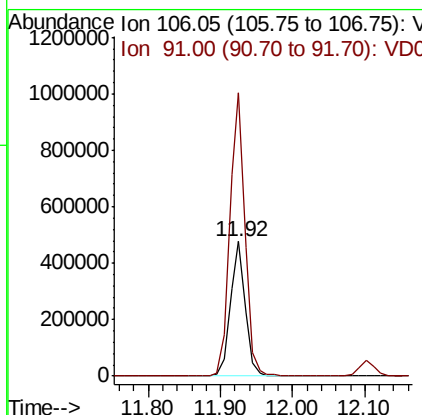
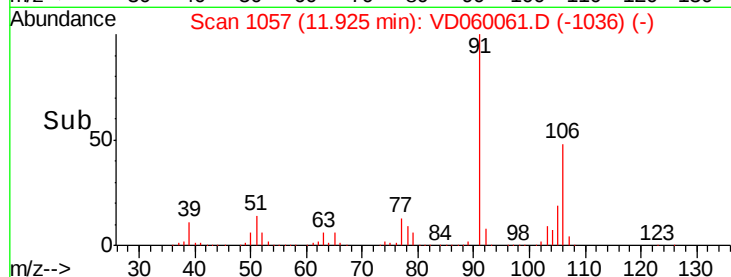
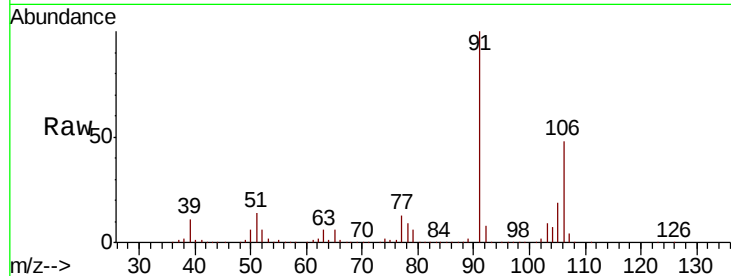
#69
o-Xylene
Concen: 46.058 ug/l
RT: 11.92 min Scan# 1057
Delta R.T. 0.01 min
Lab File: VD060061.D
Acq: 20 Sep 2018 21:25

Instrument :
MSVOA_D
ClientSampleId :
RA-091918-S-NW-061MSD

Tot Ion:106 Resp: 676543
Ion Ratio Lower Upper
106 100
91 210.4 107.7 323.1

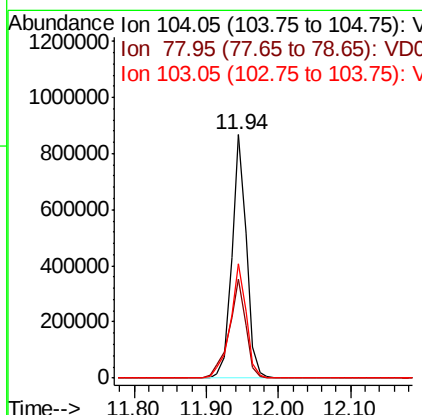
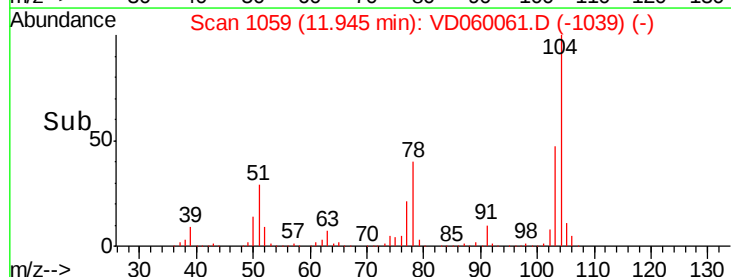
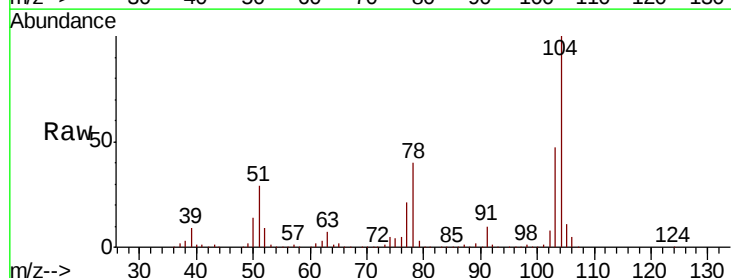
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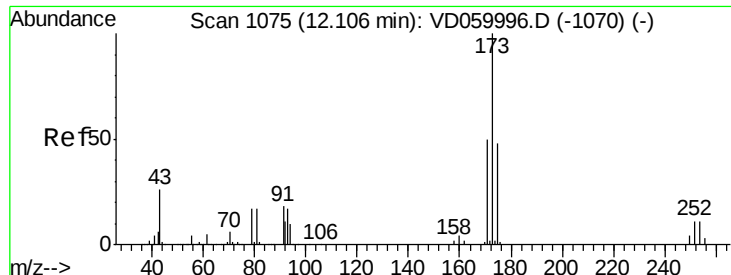
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#70
Styrene
Concen: 49.208 ug/l
RT: 11.94 min Scan# 1059
Delta R.T. -0.00 min
Lab File: VD060061.D
Acq: 20 Sep 2018 21:25

Tgt Ion:104 Resp: 1215334
Ion Ratio Lower Upper
104 100
78 40.4 31.0 46.4
103 46.9 37.6 56.4





#71

Bromoform

Concen: 53.711 ug/l

RT: 12.10 min Scan# 1075

Delta R.T. -0.00 min

Lab File: VD060061.D

Acq: 20 Sep 2018 21:25

Instrument :

MSVOA_D

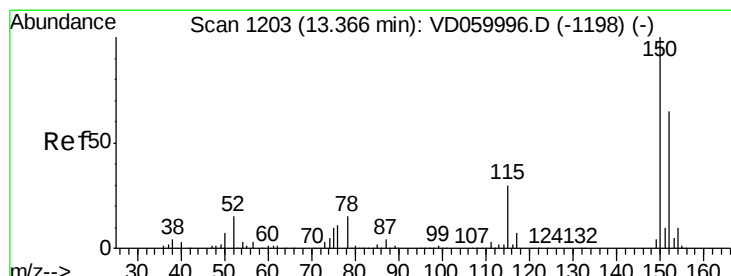
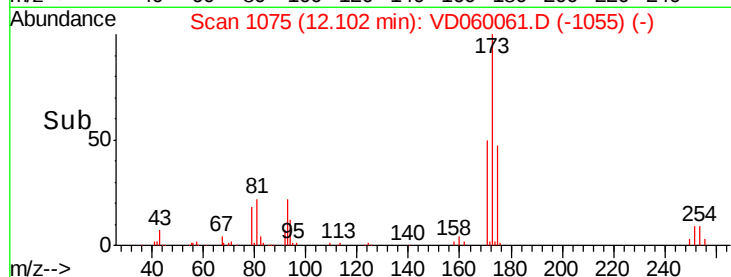
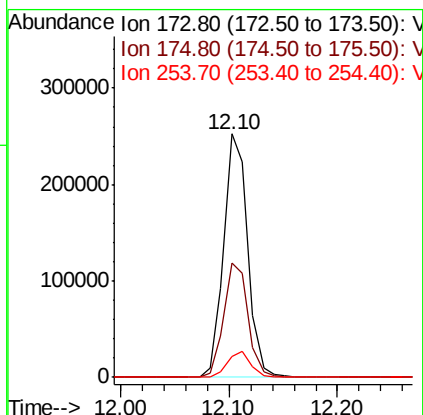
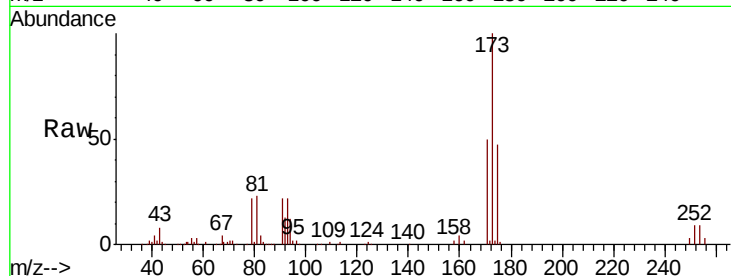
ClientSampleId :

RA-091918-S-NW-061MSD

Tot Ion:	173	Resp:	388220
Ion Ratio	Lower	Upper	
173	100		
175	47.1	24.0	72.0
254	8.8	8.6	13.0

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#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

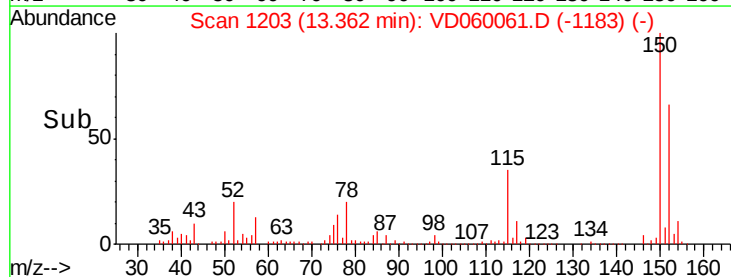
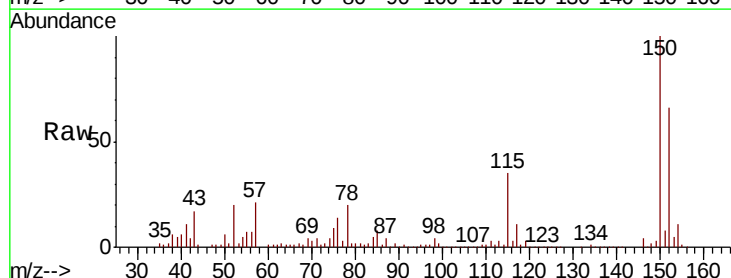
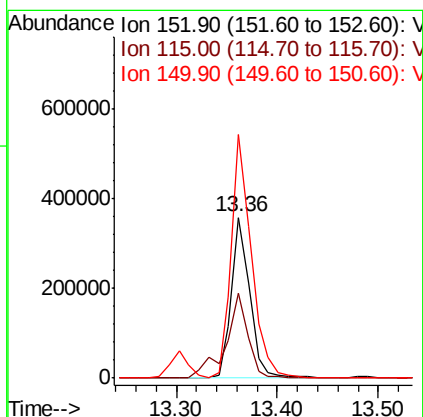
RT: 13.36 min Scan# 1203

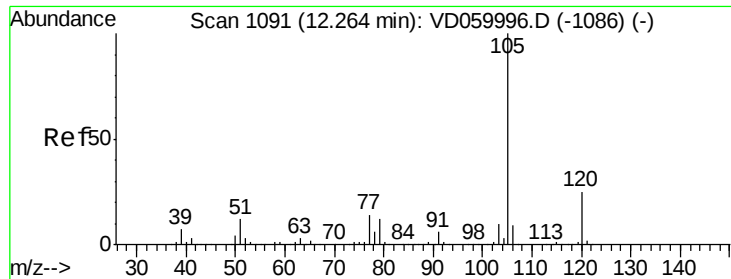
Delta R.T. -0.00 min

Lab File: VD060061.D

Acq: 20 Sep 2018 21:25

Tgt Ion:	152	Resp:	447296
Ion Ratio	Lower	Upper	
152	100		
115	52.9	24.6	73.8
150	151.2	0.0	313.4





#73

Isopropylbenzene

Concen: 50.453 ug/l

RT: 12.27 min Scan# 1092

Delta R.T. 0.01 min

Lab File: VD060061.D

Acq: 20 Sep 2018 21:25

Instrument :

MSVOA_D

ClientSampleId :

RA-091918-S-NW-061MSD

Tot Ion:105 Resp: 1480084

Ion Ratio Lower Upper

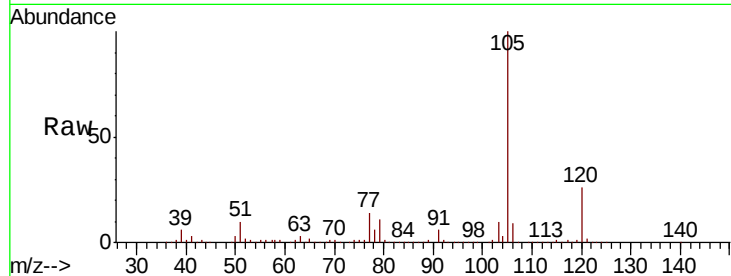
105 100

120 25.6 12.3 36.9

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Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

1200000

1000000

800000

600000

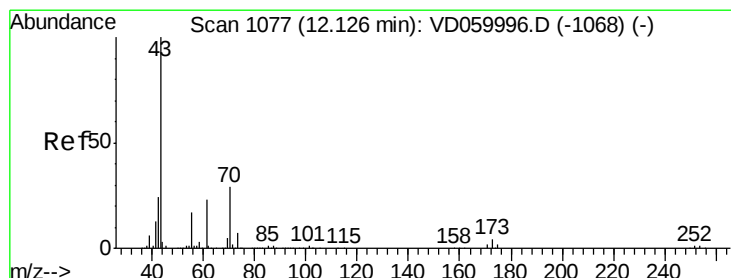
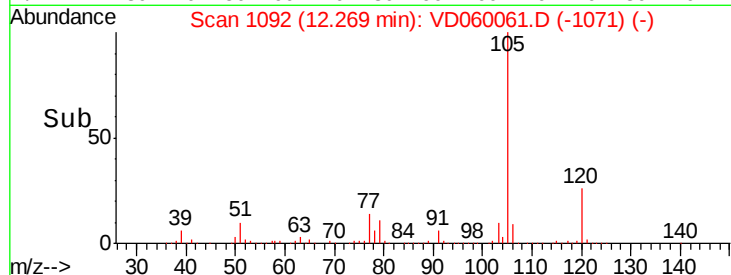
400000

200000

0

12.20 12.30 12.40

Time-->



#74

N-ethyl acetate

Concen: 75.077 ug/l

RT: 12.12 min Scan# 1077

Delta R.T. -0.00 min

Lab File: VD060061.D

Acq: 20 Sep 2018 21:25

Tgt Ion: 43 Resp: 872407

Ion Ratio Lower Upper

43 100

70 27.5 22.9 34.3

55 18.4 14.0 21.0

61 22.2 18.7 28.1

Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 60.95 (60.65 to 61.65): VDC

800000

600000

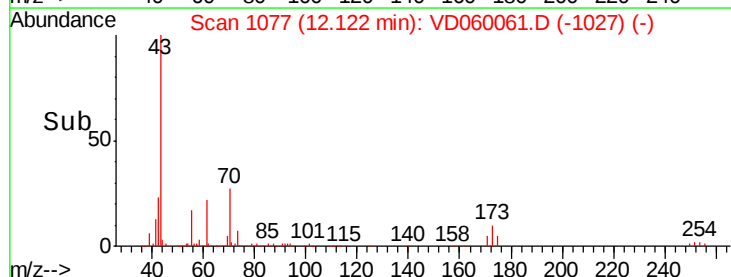
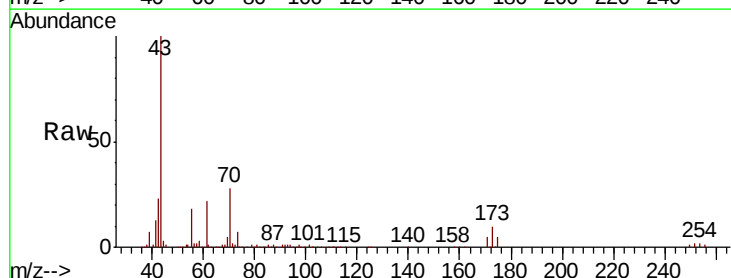
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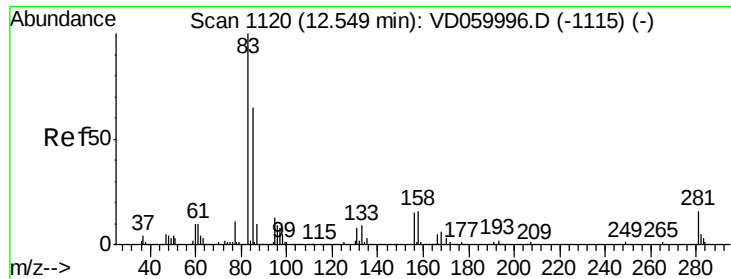
200000

0

12.00 12.10 12.20

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 76.897 ug/l

RT: 12.55 min Scan# 1121

Delta R.T. 0.01 min

Lab File: VD060061.D

Acq: 20 Sep 2018 21:25

Instrument :

MSVOA_D

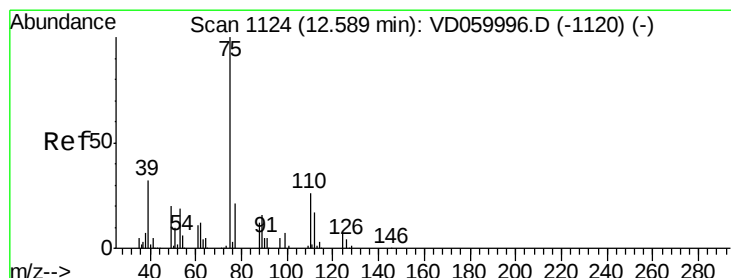
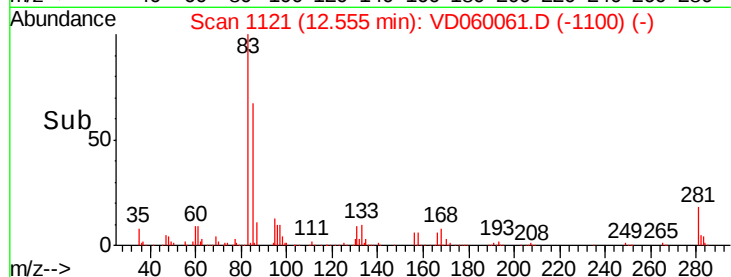
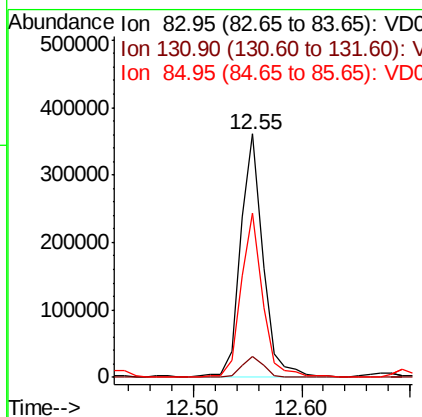
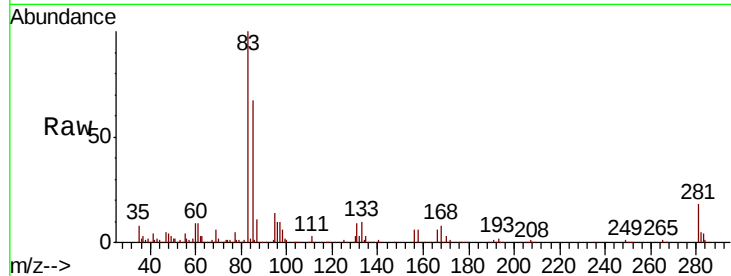
ClientSampleId :

RA-091918-S-NW-061MSD

Tot Ion:	83	Resp:	511750
Ion Ratio	Lower	Upper	
83	100		
131	8.8	4.1	12.3
85	67.5	32.4	97.2

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#76

1,2,3-Trichloropropane

Concen: 73.349 ug/l

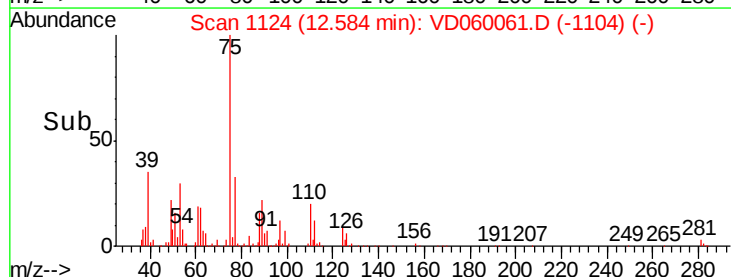
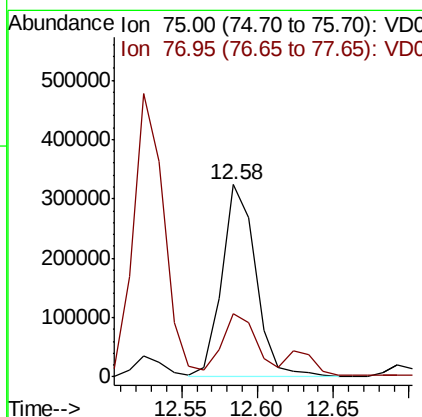
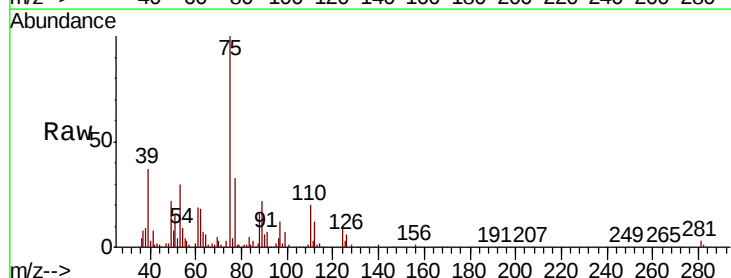
RT: 12.58 min Scan# 1124

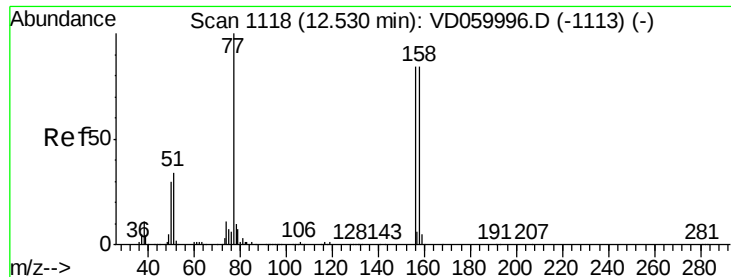
Delta R.T. -0.00 min

Lab File: VD060061.D

Acq: 20 Sep 2018 21:25

Tgt Ion:	75	Resp:	501081
Ion Ratio	Lower	Upper	
75	100		
77	32.9	16.4	49.4





#77

Bromobenzene

Concen: 64.820 ug/l

RT: 12.53 min Scan# 1119

Delta R.T. 0.01 min

Lab File: VD060061.D

Acq: 20 Sep 2018 21:25

Instrument :

MSVOA_D

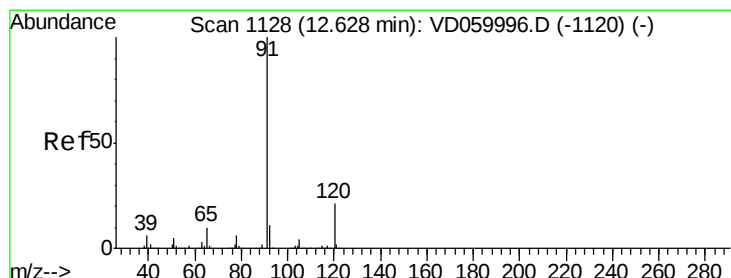
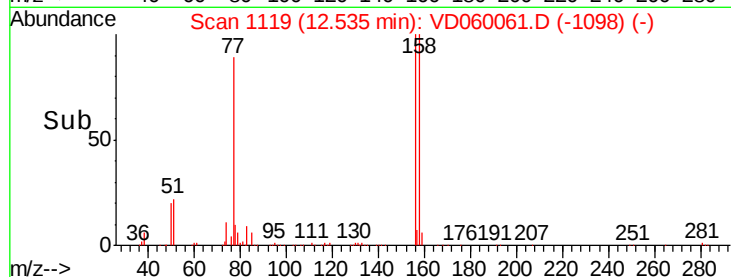
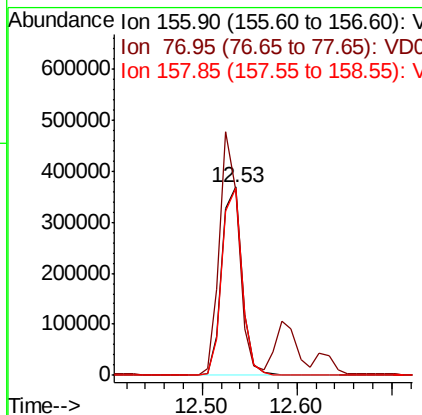
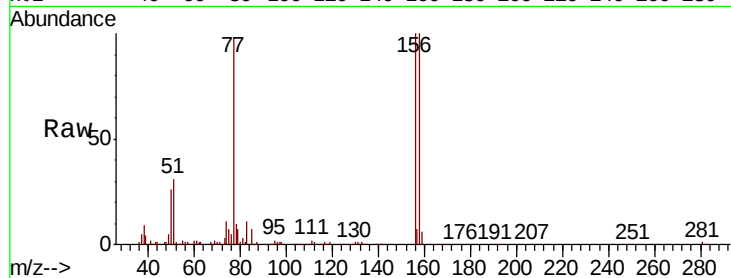
ClientSampleId :

RA-091918-S-NW-061MSD

Tot Ion:	156	Resp:	547750
Ion Ratio	Lower	Upper	
156	100		
77	98.3	59.5	178.4
158	99.7	50.0	149.8

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#78

n-propylbenzene

Concen: 46.257 ug/l

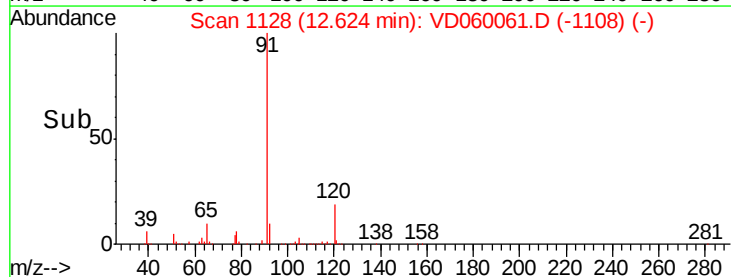
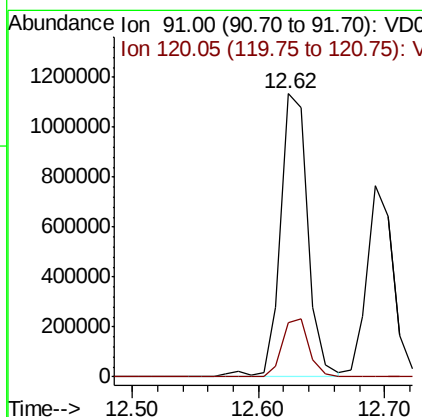
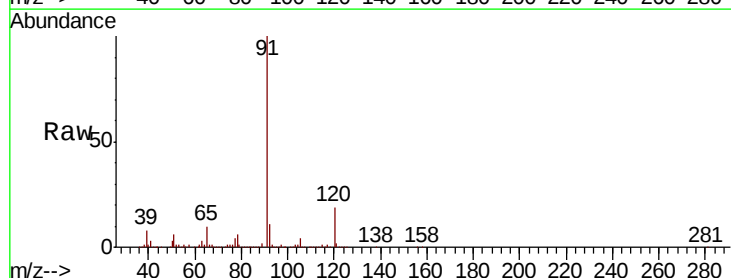
RT: 12.62 min Scan# 1128

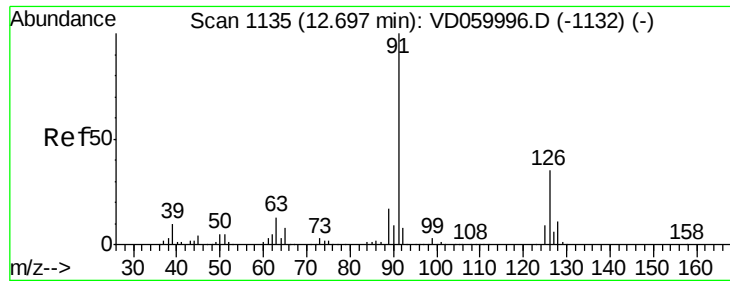
Delta R.T. -0.00 min

Lab File: VD060061.D

Acq: 20 Sep 2018 21:25

Tgt Ion:	91	Resp:	1706438
Ion Ratio	Lower	Upper	
91	100		
120	19.0	10.7	31.9





#79

2-Chlorotoluene

Concen: 53.122 ug/l

RT: 12.69 min Scan# 1135

Delta R.T. -0.00 min

Lab File: VD060061.D

Acq: 20 Sep 2018 21:25

Instrument :

MSVOA_D

ClientSampleId :

RA-091918-S-NW-061MSD

Tot Ion: 91 Resp: 1106087

Ion Ratio Lower Upper

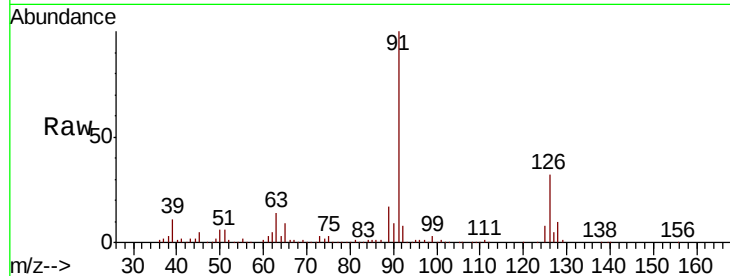
91 100

126 32.0 17.3 52.0

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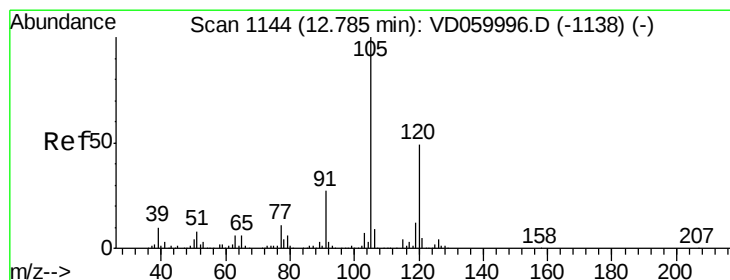
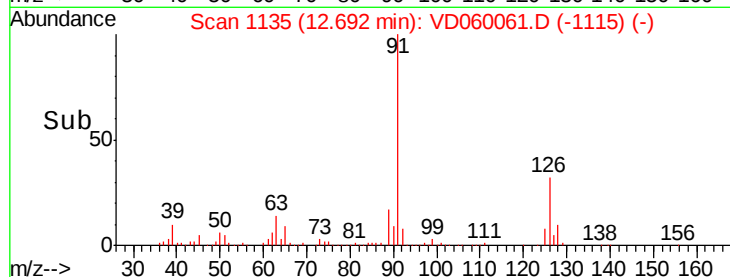
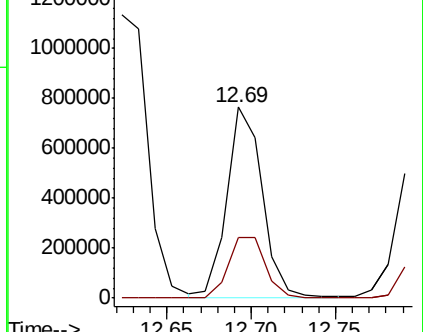
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Abundance Ion 91.00 (90.70 to 91.70): V

Ion 125.95 (125.65 to 126.65): V



#80

1,3,5-Trimethylbenzene

Concen: 46.350 ug/l

RT: 12.78 min Scan# 1144

Delta R.T. -0.00 min

Lab File: VD060061.D

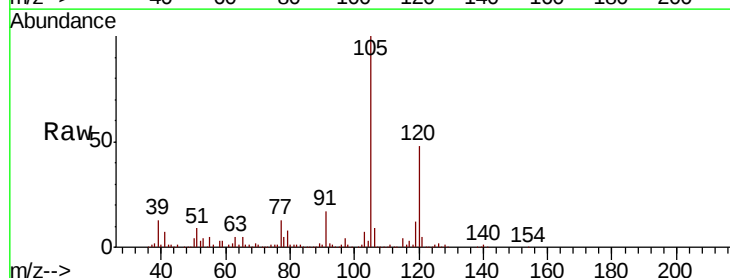
Acq: 20 Sep 2018 21:25

Tgt Ion:105 Resp: 1042170

Ion Ratio Lower Upper

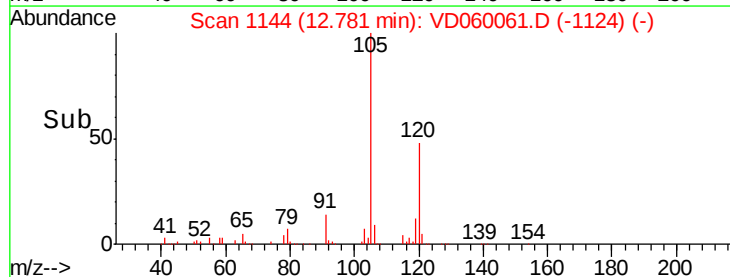
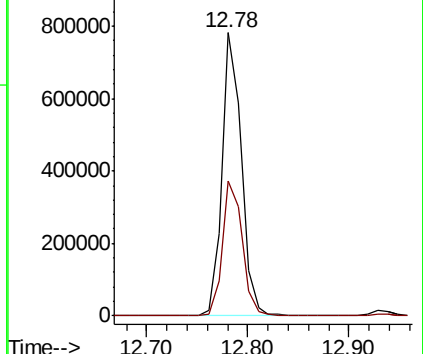
105 100

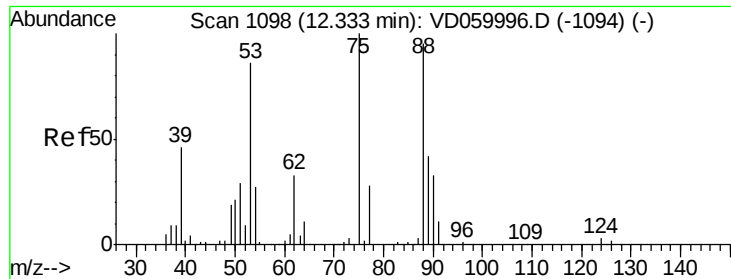
120 47.5 24.4 73.2



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V





#81

trans-1,4-Dichloro-2-butene

Concen: 71.741 ug/l

RT: 12.33 min Scan# 1098

Delta R.T. -0.00 min

Lab File: VD060061.D

Acq: 20 Sep 2018 21:25

Instrument :

MSVOA_D

ClientSampleId :

RA-091918-S-NW-061MSD

Tot Ion: 75 Resp: 147942

Ion Ratio Lower Upper

75 100

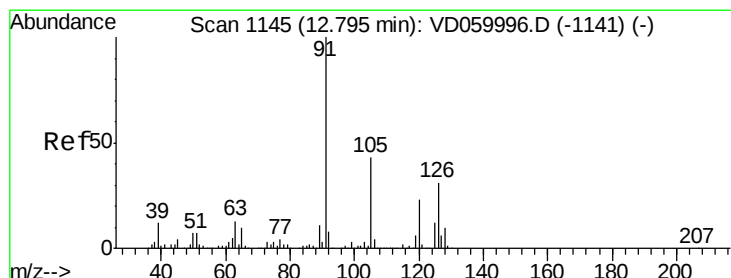
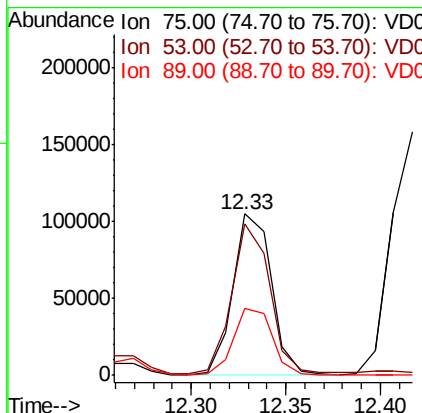
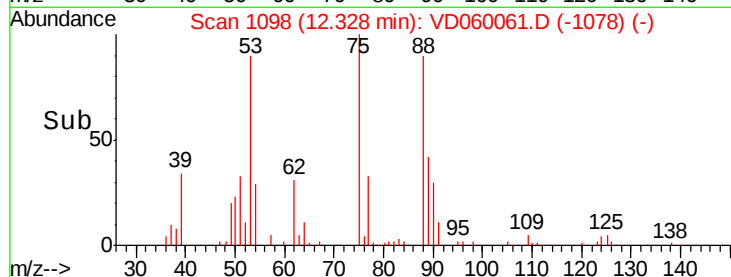
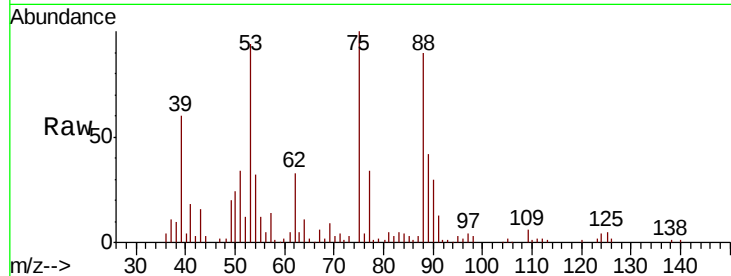
53 94.1 68.4 102.6

89 41.7 33.8 50.6

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#82

4-Chlorotoluene

Concen: 54.285 ug/l

RT: 12.80 min Scan# 1146

Delta R.T. 0.01 min

Lab File: VD060061.D

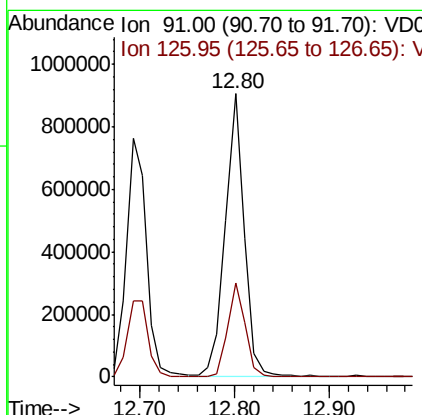
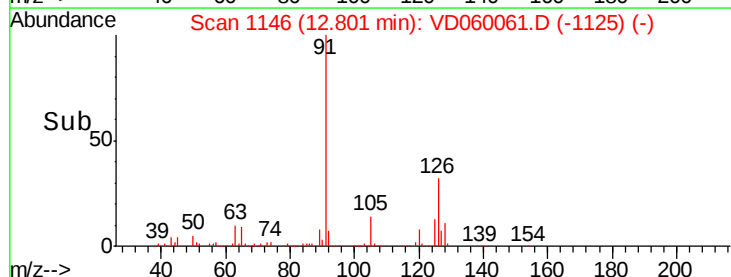
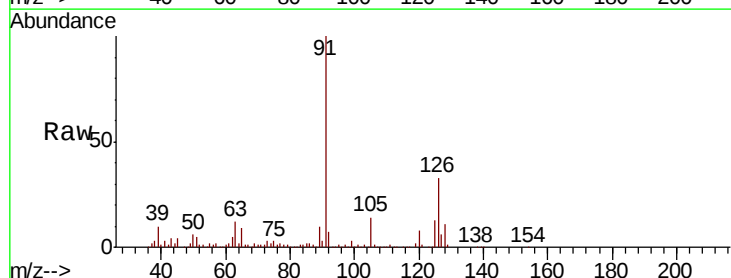
Acq: 20 Sep 2018 21:25

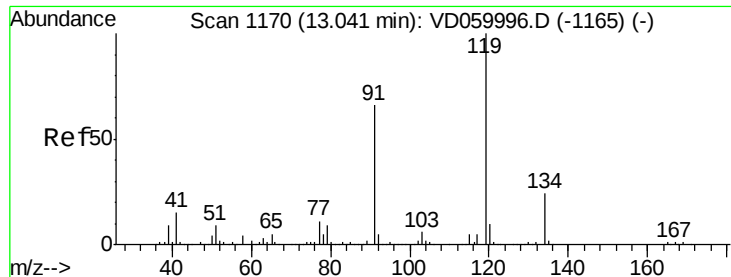
Tgt Ion: 91 Resp: 1242693

Ion Ratio Lower Upper

91 100

126 33.0 15.4 46.1





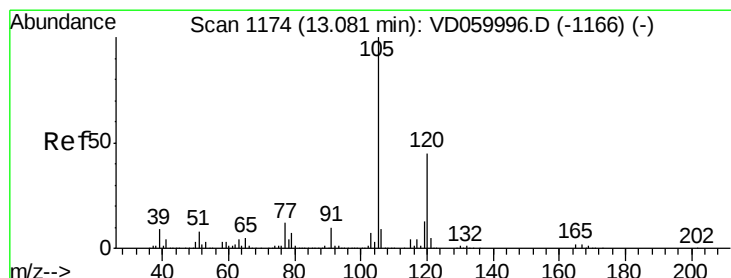
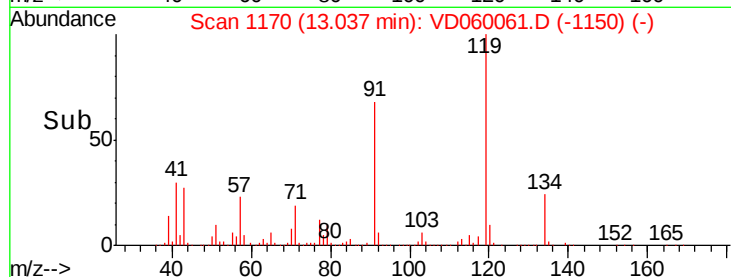
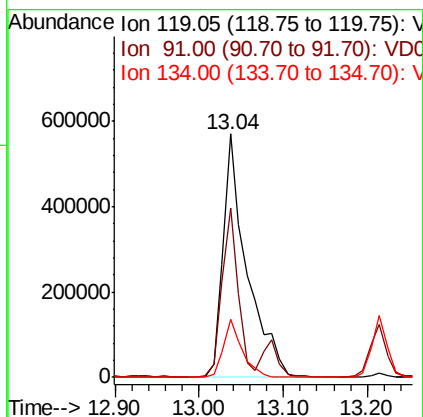
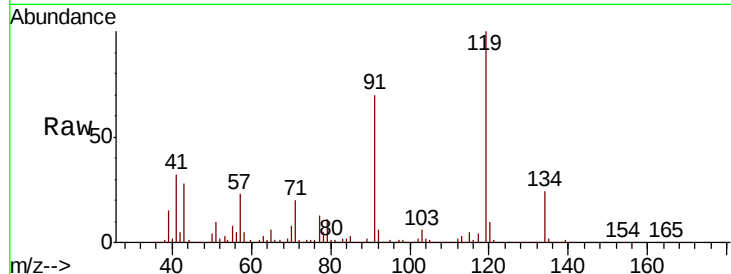
#83
tert-Butylbenzene
Concen: 43.239 ug/l
RT: 13.04 min Scan# 1170
Delta R.T. -0.00 min
Lab File: VD060061.D
Acq: 20 Sep 2018 21:25

Instrument :
MSVOA_D
ClientSampleId :
RA-091918-S-NW-061MSD

Tot Ion:119 Resp: 1126328
Ion Ratio Lower Upper
119 100
91 69.6 32.9 98.6
134 23.9 12.0 36.0

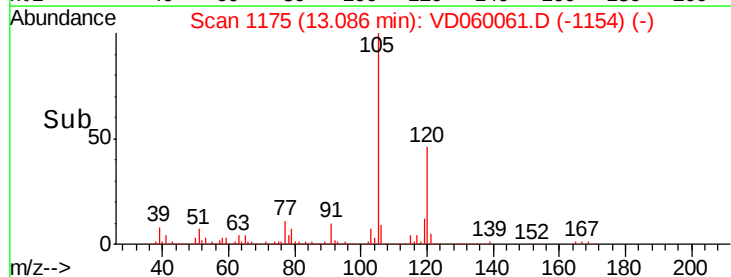
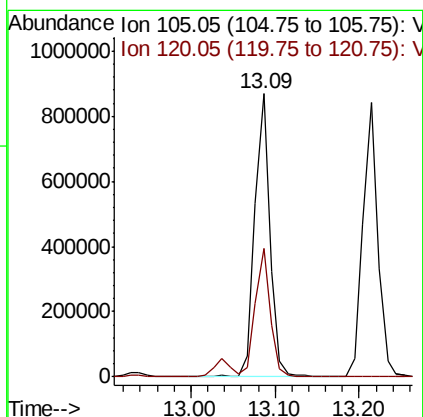
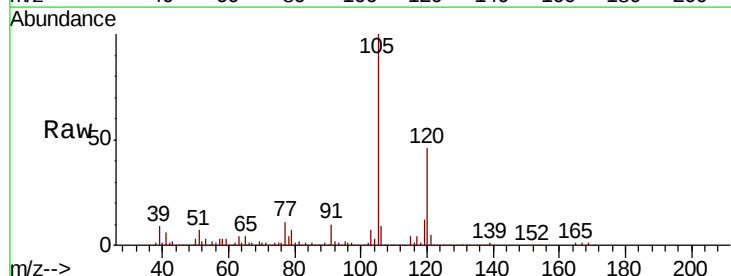
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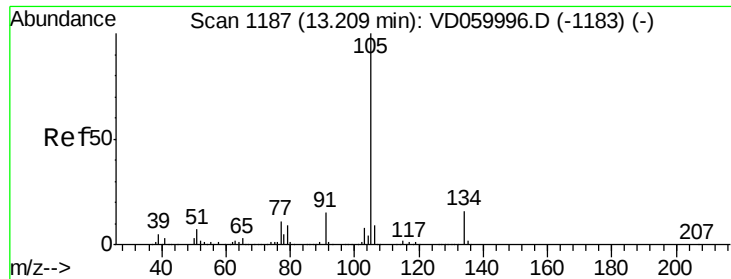
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#84
1,2,4-Trimethylbenzene
Concen: 45.920 ug/l
RT: 13.09 min Scan# 1175
Delta R.T. 0.01 min
Lab File: VD060061.D
Acq: 20 Sep 2018 21:25

Tgt Ion:105 Resp: 1101828
Ion Ratio Lower Upper
105 100
120 45.5 22.4 67.0





#85

sec-Butylbenzene

Concen: 33.755 ug/l

RT: 13.21 min Scan# 1188

Delta R.T. 0.01 min

Lab File: VD060061.D

Acq: 20 Sep 2018 21:25

Instrument :

MSVOA_D

ClientSampleId :

RA-091918-S-NW-061MSD

Tot Ion:105 Resp: 1043743

Ion Ratio Lower Upper

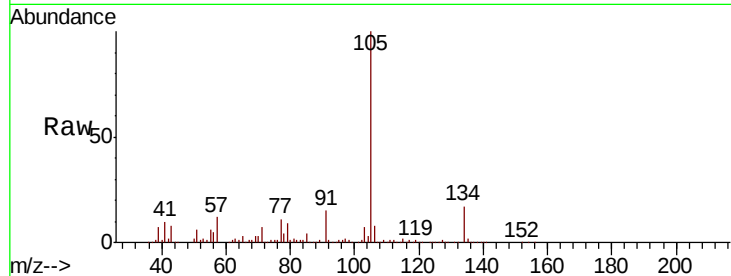
105 100

134 17.2 8.2 24.6

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Abundance Ion 105.05 (104.75 to 105.75): V

Ion 134.10 (133.80 to 134.80): V

1000000

800000

600000

400000

200000

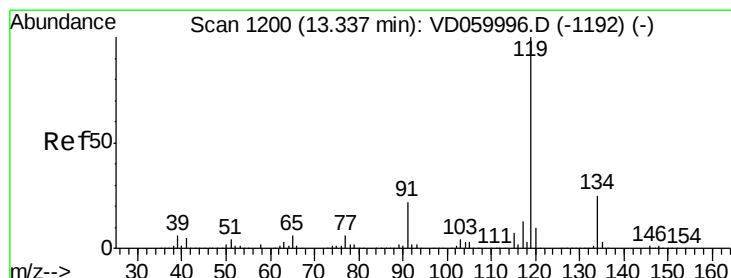
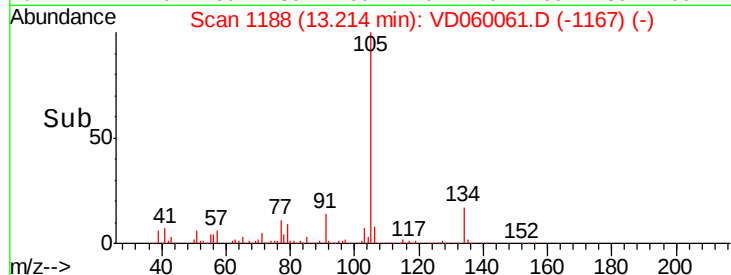
0

13.21

13.20

13.30

Time-->



#86

p-Isopropyltoluene

Concen: 34.337 ug/l

RT: 13.33 min Scan# 1200

Delta R.T. -0.00 min

Lab File: VD060061.D

Acq: 20 Sep 2018 21:25

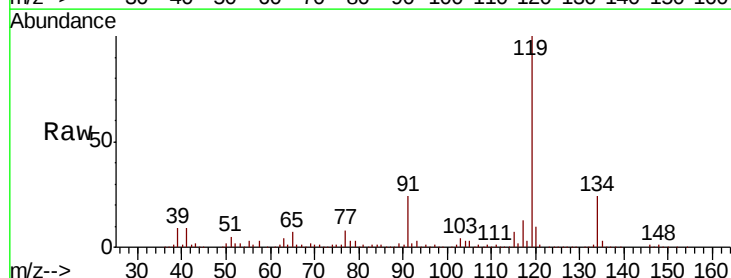
Tgt Ion:119 Resp: 858729

Ion Ratio Lower Upper

119 100

134 24.1 12.8 38.3

91 23.9 11.1 33.3



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

800000

600000

400000

200000

0

13.33

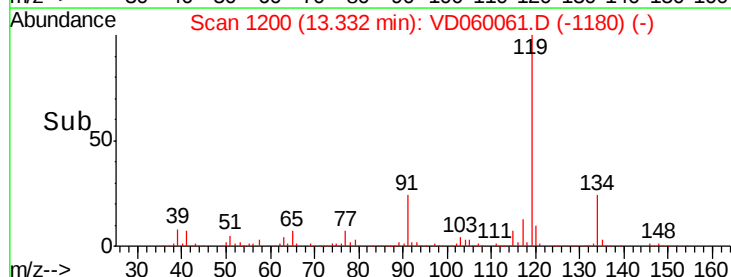
13.20

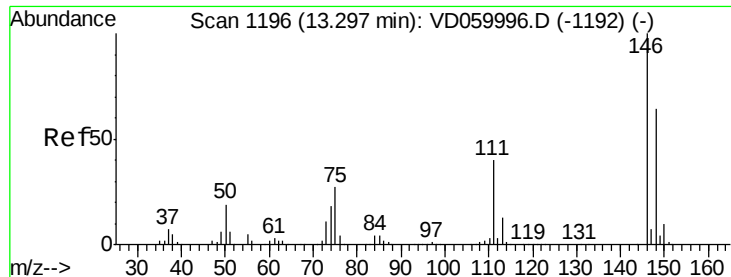
13.30

13.40

13.50

Time-->





#87

1,3-Dichlorobenzene

Concen: 50.914 ug/l

RT: 13.30 min Scan# 1197

Delta R.T. 0.01 min

Lab File: VD060061.D

Acq: 20 Sep 2018 21:25

Instrument :

MSVOA_D

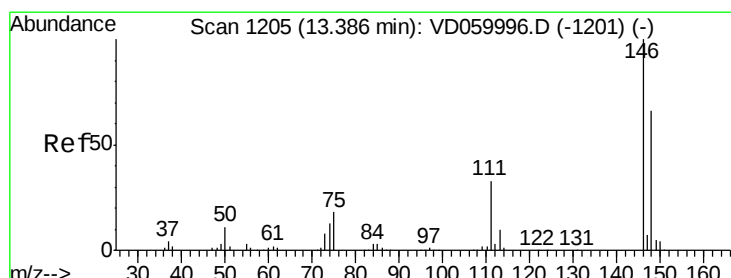
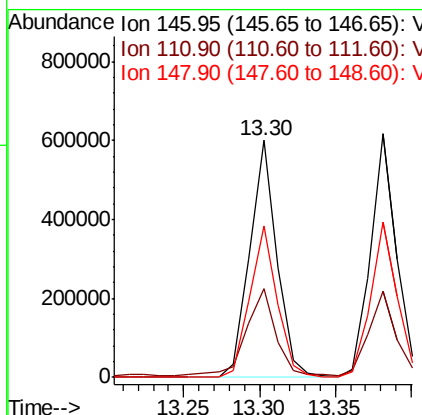
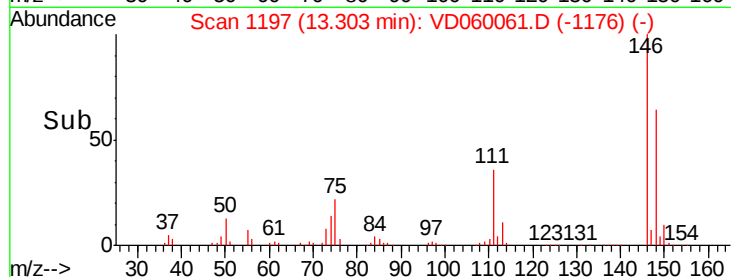
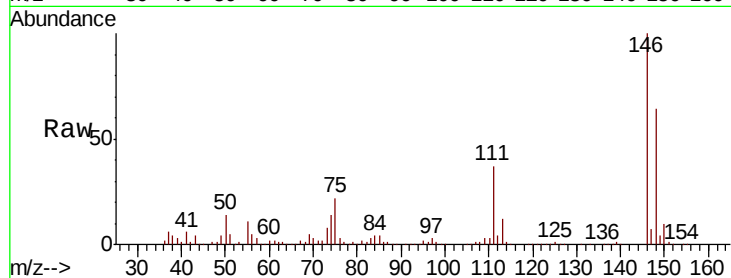
ClientSampleId :

RA-091918-S-NW-061MSD

Tot Ion:	146	Resp:	748184
Ion Ratio	Lower	Upper	
146	100		
111	37.3	20.2	60.5
148	64.1	32.0	96.2

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#88

1,4-Dichlorobenzene

Concen: 50.325 ug/l

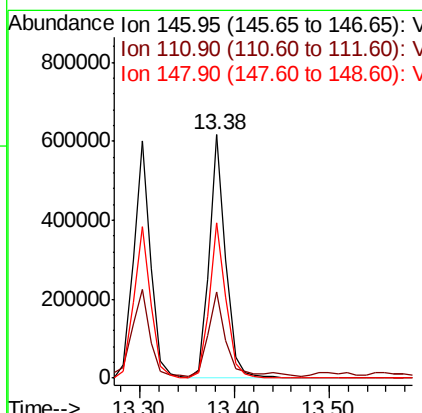
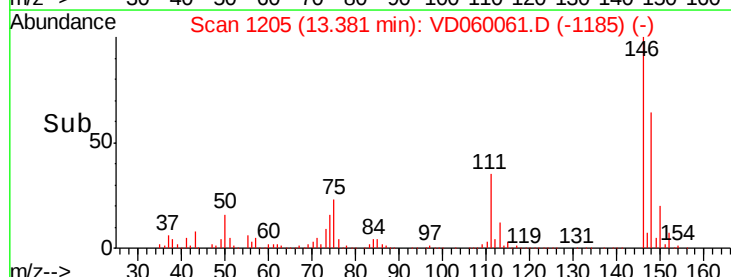
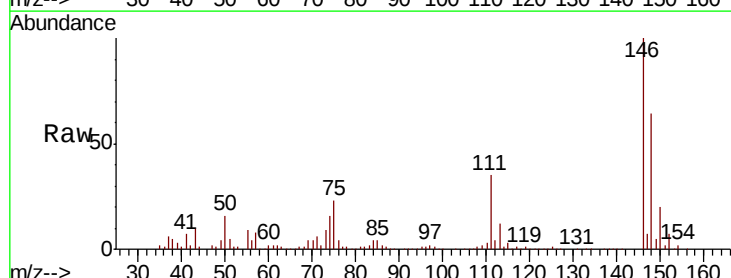
RT: 13.38 min Scan# 1205

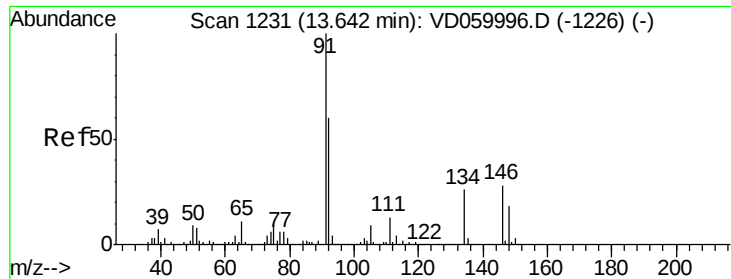
Delta R.T. -0.00 min

Lab File: VD060061.D

Acq: 20 Sep 2018 21:25

Tgt Ion:	146	Resp:	750091
Ion Ratio	Lower	Upper	
146	100		
111	35.5	16.7	50.0
148	64.0	32.9	98.6





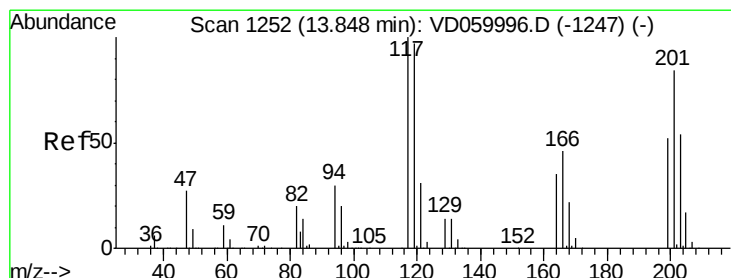
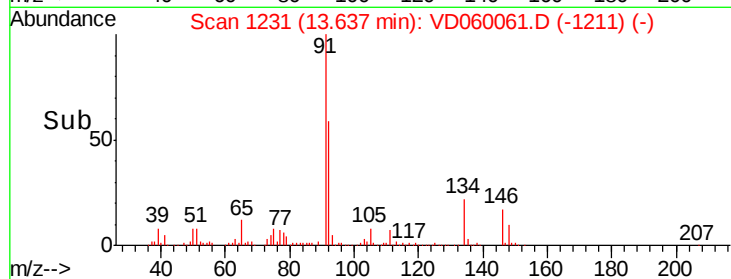
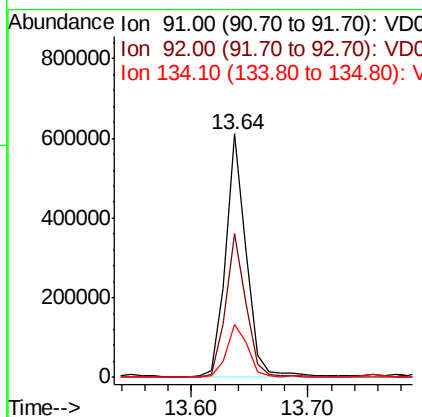
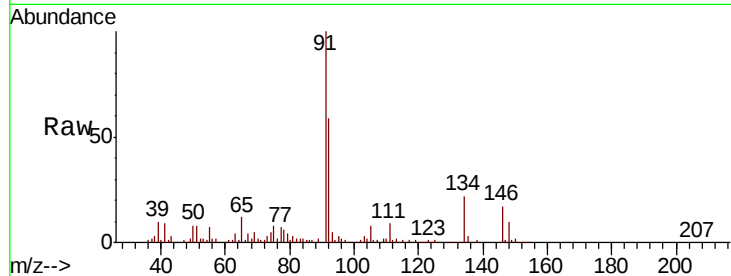
#89
n-Butylbenzene
Concen: 28.889 ug/l
RT: 13.64 min Scan# 1231
Delta R.T. -0.00 min
Lab File: VD060061.D
Acq: 20 Sep 2018 21:25

Instrument :
MSVOA_D
ClientSampleId :
RA-091918-S-NW-061MSD

Tot Ion	Ratio	Resp	Lower	Upper
91	100	742234		
92	59.2	29.8	89.3	
134	21.9	13.2	39.6	

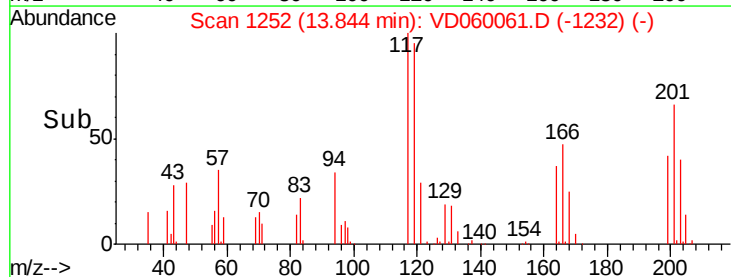
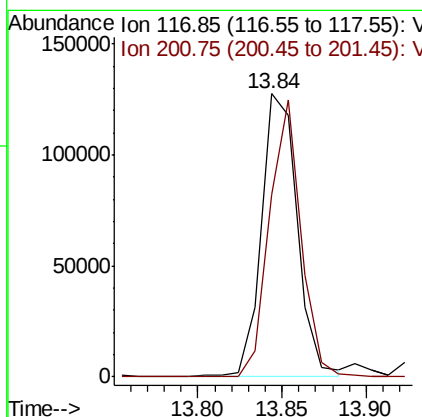
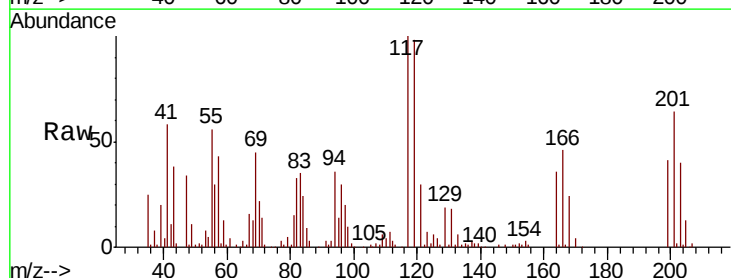
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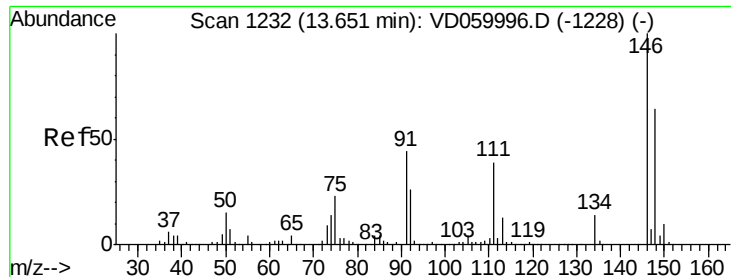
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#90
Hexachloroethane
Concen: 30.332 ug/l
RT: 13.84 min Scan# 1252
Delta R.T. -0.00 min
Lab File: VD060061.D
Acq: 20 Sep 2018 21:25

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	187885		
201	64.3	42.1	126.4	





#91

1,2-Dichlorobenzene

Concen: 57.563 ug/l

RT: 13.65 min Scan# 1232

Delta R.T. -0.00 min

Lab File: VD060061.D

Acq: 20 Sep 2018 21:25

Instrument :

MSVOA_D

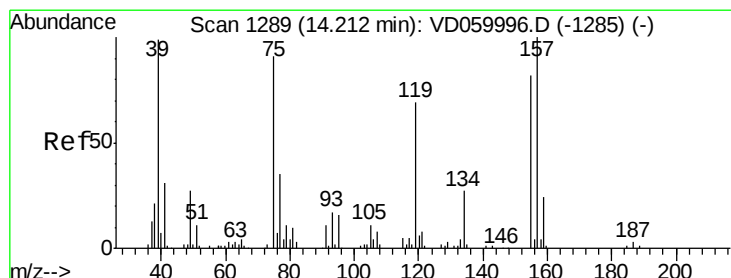
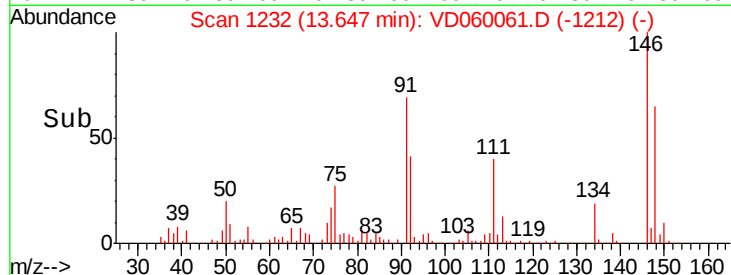
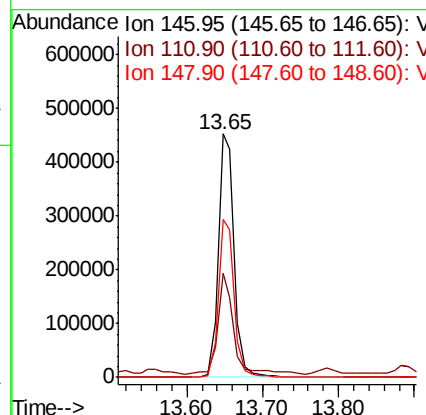
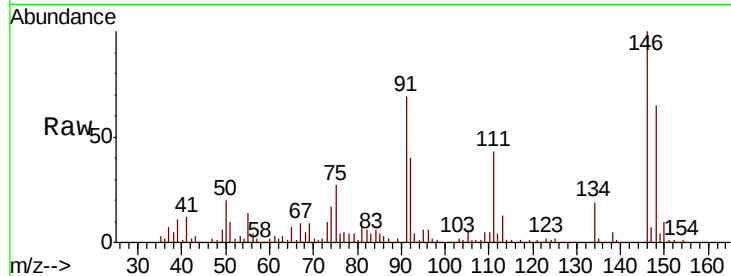
ClientSampleId :

RA-091918-S-NW-061MSD

Tot Ion:	146	Resp:	665758
Ion Ratio	Lower	Upper	
146	100		
111	42.7	19.6	58.7
148	64.9	31.9	95.7

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#92

1,2-Dibromo-3-Chloropropane

Concen: 62.769 ug/l

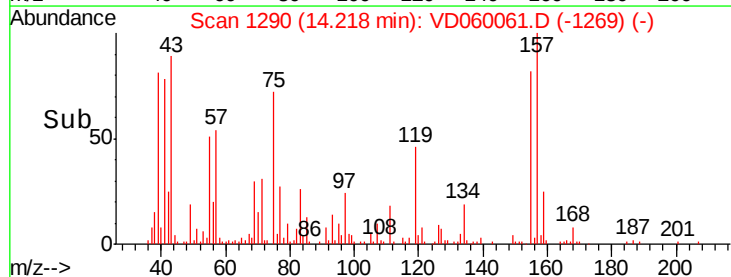
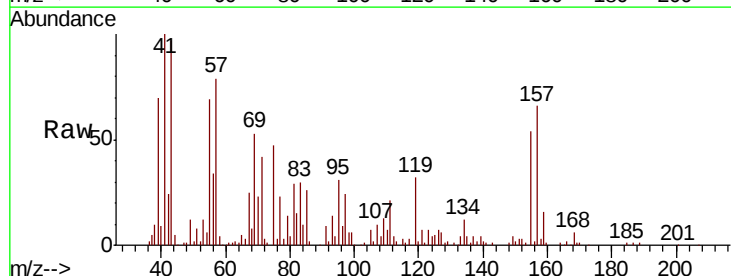
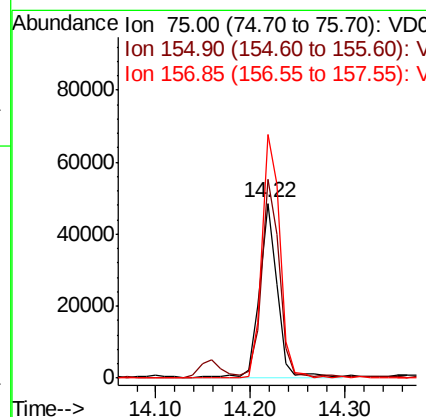
RT: 14.22 min Scan# 1290

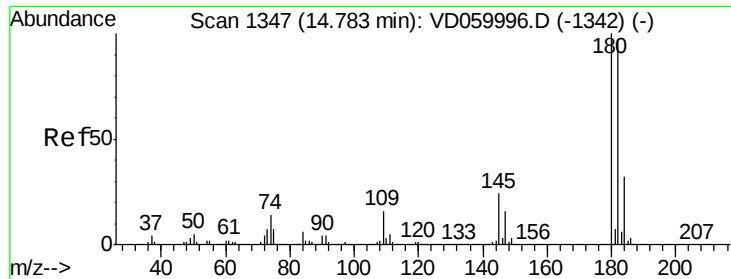
Delta R.T. 0.01 min

Lab File: VD060061.D

Acq: 20 Sep 2018 21:25

Tgt Ion:	75	Resp:	63682
Ion Ratio	Lower	Upper	
75	100		
155	114.0	44.7	134.1
157	139.4	54.7	164.1





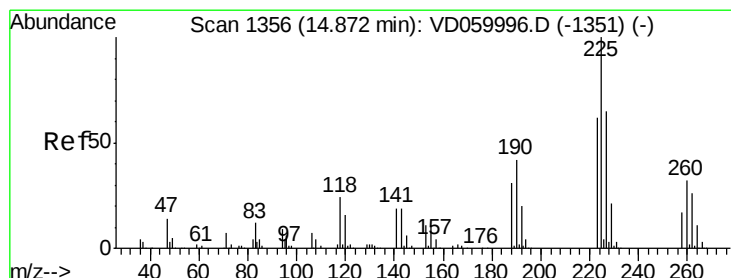
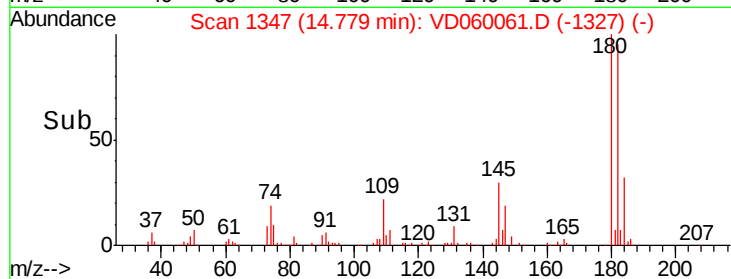
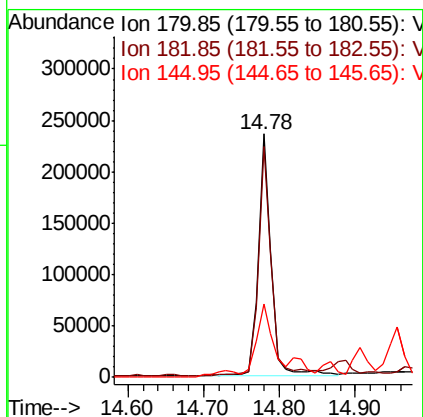
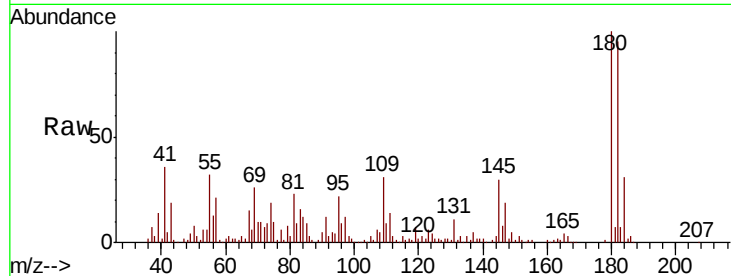
#93
 1,2,4-Trichlorobenzene
 Concen: 27.489 ug/l
 RT: 14.78 min Scan# 1347
 Delta R.T. -0.00 min
 Lab File: VD060061.D
 Acq: 20 Sep 2018 21:25

Instrument :
 MSVOA_D
 ClientSampleId :
 RA-091918-S-NW-061MSD

Tot Ion	Ratio	Resp	Lower	Upper
180	100	287864		
182	94.7	48.5	145.6	
145	30.0	11.9	35.7	

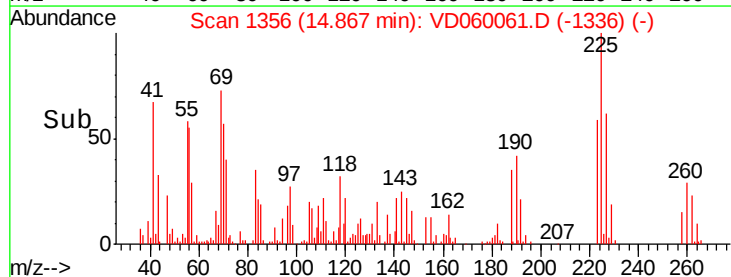
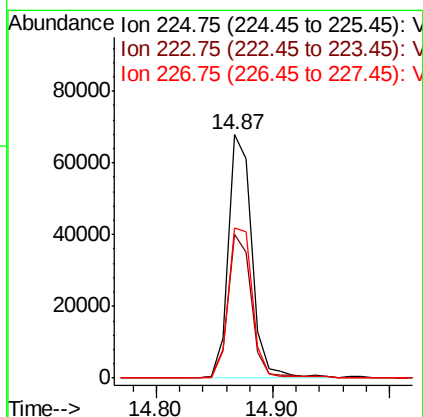
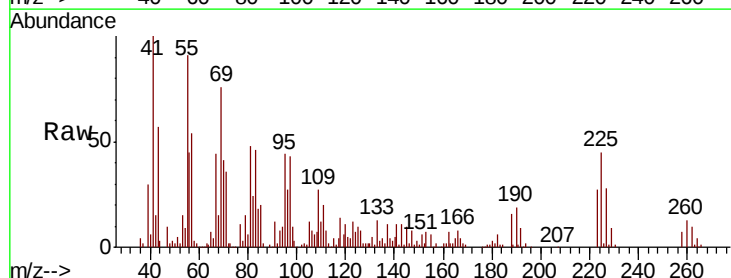
Manual Integrations
 APPROVED

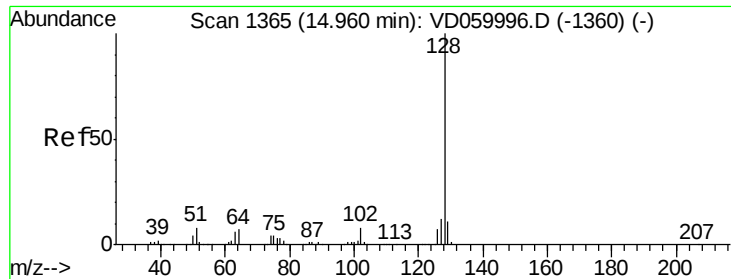
apatel
 9/21/2018 12:57:46 PM



#94
 Hexachlorobutadiene
 Concen: 13.720 ug/l
 RT: 14.87 min Scan# 1356
 Delta R.T. -0.00 min
 Lab File: VD060061.D
 Acq: 20 Sep 2018 21:25

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	95039		
223	59.0	31.2	93.6	
227	61.9	32.3	96.8	





#95

Naphthalene

Concen: 42.998 ug/l

RT: 14.96 min Scan# 1365

Delta R.T. -0.00 min

Lab File: VD060061.D

Acq: 20 Sep 2018 21:25

Instrument :

MSVOA_D

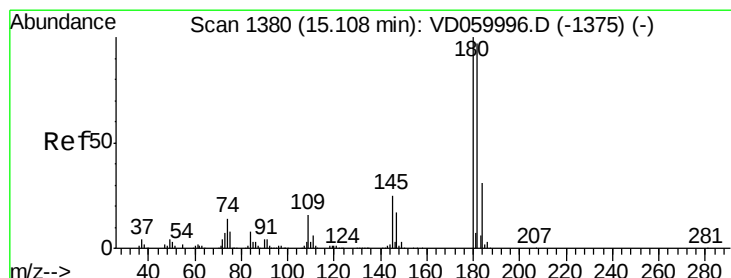
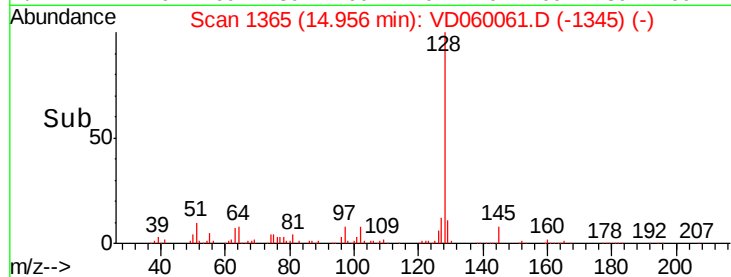
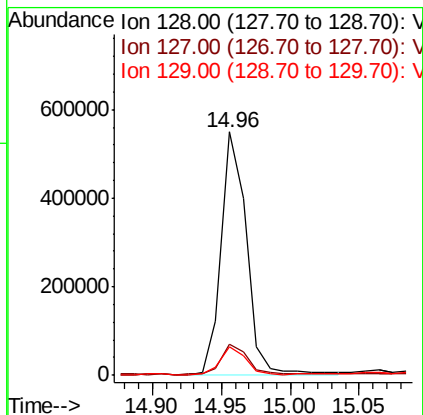
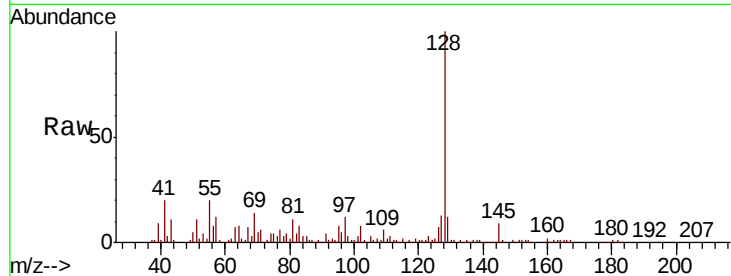
ClientSampleId :

RA-091918-S-NW-061MSD

Tot Ion:	128	Resp:	695373
Ion Ratio	Lower	Upper	
128	100		
127	12.9	9.7	14.5
129	12.0	8.9	13.3

Manual Integrations
APPROVED

apatel
9/21/2018 12:57:46 PM



#96

1,2,3-Trichlorobenzene

Concen: 27.417 ug/l m

RT: 15.10 min Scan# 1380

Delta R.T. -0.00 min

Lab File: VD060061.D

Acq: 20 Sep 2018 21:25

Tgt Ion:	180	Resp:	253018
Ion Ratio	Lower	Upper	
180	100		
182	96.3	48.6	145.9
145	58.4	12.7	38.1#

