

Data Path : \\74.0.250.170\TERASTORAGE\VOASRV\HPCHEM1\MSVOA_D\DATA\VD102919\
 Data File : VD064085.D
 Acq On : 29 Oct 2019 13:09
 Operator : VA/SY
 Sample : VSTDIC020
 Misc : 5.00G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC020

Manual Integrations
 APPROVED

MMDadoda
 10/30/2019 10:58:09 AM

Quant Time: Oct 30 07:47:28 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D102919S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 30 07:33:28 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	211623	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	312065	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	295626	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	161129	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.33	65	33453	19.88	ug/l	0.00
Spiked Amount	50.000		Recovery	=	39.76%	
35) Dibromofluoromethane	7.92	113	38373	19.99	ug/l	0.00
Spiked Amount	50.000		Recovery	=	39.98%	
50) Toluene-d8	10.34	98	157039	20.45	ug/l	0.00
Spiked Amount	50.000		Recovery	=	40.90%	
62) 4-Bromofluorobenzene	12.64	95	49499	19.45	ug/l	0.00
Spiked Amount	50.000		Recovery	=	38.90%	

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.99	85	47299	21.888	ug/l	96
3) Chloromethane	2.21	50	78115	21.666	ug/l	96
4) Vinyl Chloride	2.35	62	84805	21.690	ug/l	98
5) Bromomethane	2.76	94	52673	20.672	ug/l	92
6) Chloroethane	2.92	64	53516	22.037	ug/l	92
7) Trichlorofluoromethane	3.27	101	118187	21.958	ug/l	99
8) Diethyl Ether	3.70	74	17445	18.647	ug/l	97
9) 1,1,2-Trichlorotrifluoroet	4.10	101	41522	21.407	ug/l	98
10) Methyl Iodide	4.29	142	48031	19.987	ug/l	99
11) Tert butyl alcohol	5.25	59	7877	55.522	ug/l #	92
12) 1,1-Dichloroethene	4.06	96	37611	20.488	ug/l	89
13) Acrolein	3.93	56	9911	92.355	ug/l	98
14) Allyl chloride	4.71	41	43945	20.453	ug/l	98
15) Acrylonitrile	5.43	53	34083	98.625	ug/l	99
16) Acetone	4.17	43	28411	88.720	ug/l	99
17) Carbon Disulfide	4.40	76	118205	20.954	ug/l #	94
18) Methyl Acetate	4.72	43	16067	18.862	ug/l #	71
19) Methyl tert-butyl Ether	5.49	73	72877	19.564	ug/l	96
20) Methylene Chloride	4.96	84	46424	20.289	ug/l #	87
21) trans-1,2-Dichloroethene	5.48	96	43510	21.114	ug/l	98
22) Diisopropyl ether	6.37	45	94408	19.840	ug/l	96
23) Vinyl Acetate	6.31	43	270886	101.701	ug/l	95
24) 1,1-Dichloroethane	6.26	63	67647	21.052	ug/l	97
25) 2-Butanone	7.22	43	43806	98.950	ug/l	93
26) 2,2-Dichloropropane	7.21	77	61892	20.294	ug/l	97
27) cis-1,2-Dichloroethene	7.21	96	46652	20.232	ug/l	97
28) Bromochloromethane	7.55	49	18087	15.431	ug/l	97
29) Tetrahydrofuran	7.58	42	24759	95.826	ug/l	96
30) Chloroform	7.71	83	74875	20.364	ug/l	95
31) Cyclohexane	7.98	56	63162	20.176	ug/l	91
32) 1,1,1-Trichloroethane	7.91	97	71058	20.761	ug/l	97
36) 1,1-Dichloropropene	8.11	75	60722	20.766	ug/l	95
37) Ethyl Acetate	7.30	43	18562	20.623	ug/l #	94
38) Carbon Tetrachloride	8.10	117	68322	21.415	ug/l	92

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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.36	83	71746	19.987	ug/l	91
40) Benzene	8.35	78	162544	20.384	ug/l	99
41) Methacrylonitrile	7.53	41	9120	14.931	ug/l #	87
42) 1,2-Dichloroethane	8.43	62	42910	20.372	ug/l	100
43) Isopropyl Acetate	8.46	43	34591	19.017	ug/l	95
44) Trichloroethene	9.12	130	49385	20.434	ug/l	99
45) 1,2-Dichloropropane	9.39	63	36157	19.566	ug/l	100
46) Dibromomethane	9.48	93	22197	19.944	ug/l	95
47) Bromodichloromethane	9.67	83	56183	20.010	ug/l	99
48) Methyl methacrylate	9.46	41	16733	19.893	ug/l	95
49) 1,4-Dioxane	9.47	88	5262	413.033	ug/l #	59
51) 4-Methyl-2-Pentanone	10.23	43	96425	97.375	ug/l	100
52) Toluene	10.41	92	112575	20.145	ug/l	99
53) t-1,3-Dichloropropene	10.63	75	51191	19.531	ug/l	94
54) cis-1,3-Dichloropropene	10.09	75	61292	19.877	ug/l	92
55) 1,1,2-Trichloroethane	10.80	97	31483	19.952	ug/l	96
56) Ethyl methacrylate	10.67	69	33746	19.695	ug/l	96
57) 1,3-Dichloropropane	10.95	76	51917	19.894	ug/l	97
58) 2-Chloroethyl Vinyl ether	9.95	63	66135	95.665	ug/l	99
59) 2-Hexanone	10.99	43	68011	96.371	ug/l	97
60) Dibromochloromethane	11.14	129	42088	19.651	ug/l	99
61) 1,2-Dibromoethane	11.25	107	32601	20.657	ug/l	98
64) Tetrachloroethene	10.88	164	45095	21.233	ug/l	93
65) Chlorobenzene	11.67	112	125863	20.605	ug/l	92
66) 1,1,1,2-Tetrachloroethane	11.75	131	45506	19.910	ug/l	96
67) Ethyl Benzene	11.75	91	221322	20.371	ug/l	98
68) m/p-Xylenes	11.86	106	180830	41.380	ug/l	100
69) o-Xylene	12.18	106	81623	20.466	ug/l	98
70) Styrene	12.20	104	136822	19.891	ug/l	97
71) Bromoform	12.36	173	24906	20.404	ug/l #	100
73) Isopropylbenzene	12.48	105	232998	20.809	ug/l	100
74) N-amyl acetate	12.30	43	35852	19.274	ug/l	96
75) 1,1,2,2-Tetrachloroethane	12.74	83	35065	19.868	ug/l	98
76) 1,2,3-Trichloropropane	12.78	75	21940m	10.975	ug/l	
77) Bromobenzene	12.76	156	52558	19.441	ug/l	95
78) n-propylbenzene	12.83	91	264474	20.156	ug/l	99
79) 2-Chlorotoluene	12.91	91	140767	20.013	ug/l	98
80) 1,3,5-Trimethylbenzene	12.96	105	184045	19.640	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.53	75	10385	19.589	ug/l	96
82) 4-Chlorotoluene	13.01	91	148392	19.744	ug/l	100
83) tert-Butylbenzene	13.23	119	169076	20.088	ug/l	96
84) 1,2,4-Trimethylbenzene	13.27	105	189619	20.143	ug/l	98
85) sec-Butylbenzene	13.41	105	231953	20.068	ug/l	96
86) p-Isopropyltoluene	13.52	119	219238	20.187	ug/l	100
87) 1,3-Dichlorobenzene	13.52	146	111290	20.542	ug/l	98
88) 1,4-Dichlorobenzene	13.60	146	106286	19.902	ug/l	98
89) n-Butylbenzene	13.85	91	201858	20.152	ug/l	99
90) Hexachloroethane	14.12	117	40621	19.978	ug/l	97
91) 1,2-Dichlorobenzene	13.90	146	94492	20.267	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	14.51	75	5456	21.168	ug/l	94

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ClientSampleId :
VSTDICC020

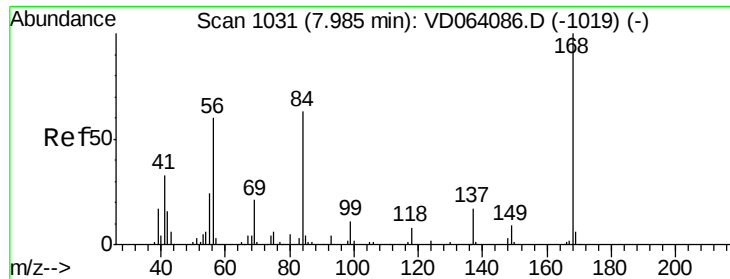
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.17	180	68615	20.473	ug/l	95
94) Hexachlorobutadiene	15.27	225	41715	21.297	ug/l	99
95) Naphthalene	15.41	128	106108	19.413	ug/l	98
96) 1,2,3-Trichlorobenzene	15.60	180	58021	19.987	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD064085.D

Acq: 29 Oct 2019 13:09

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

Tgt Ion: 168 Resp: 211623

Ion Ratio Lower Upper

168 100

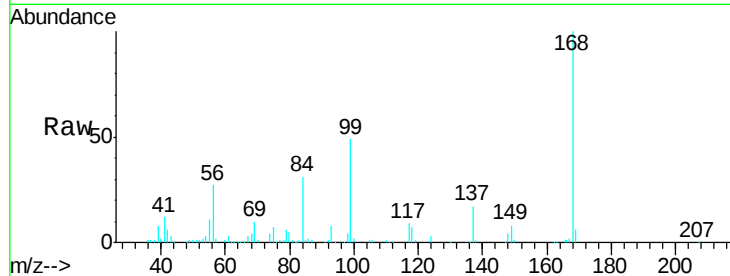
99 48.8 37.6 56.4

Manual Integrations

APPROVED

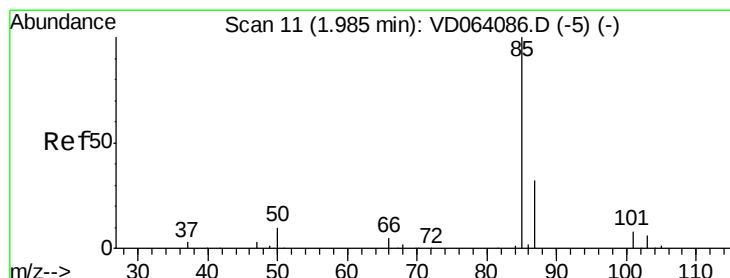
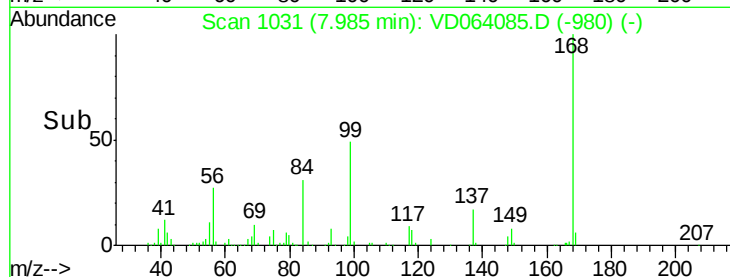
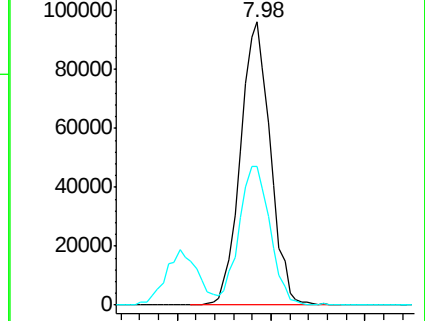
MMDadoda

10/30/2019 10:58:09 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#2

Dichlorodifluoromethane

Concen: 21.888 ug/l

RT: 1.99 min Scan# 12

Delta R.T. 0.01 min

Lab File: VD064085.D

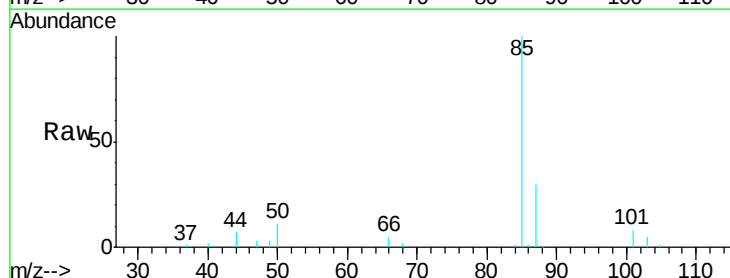
Acq: 29 Oct 2019 13:09

Tgt Ion: 85 Resp: 47299

Ion Ratio Lower Upper

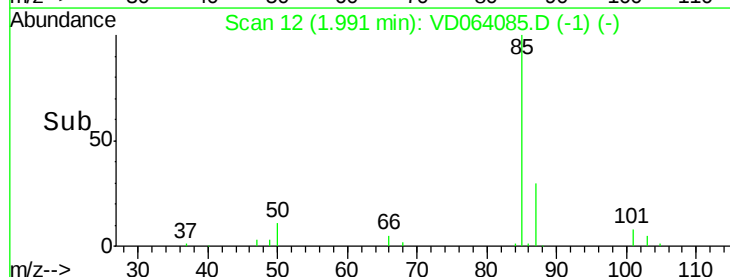
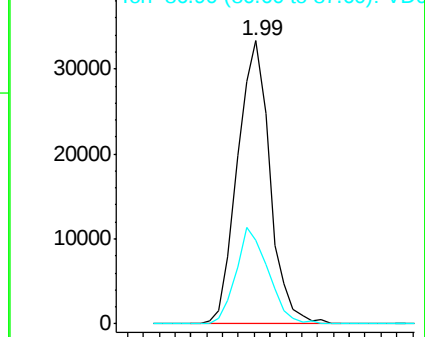
85 100

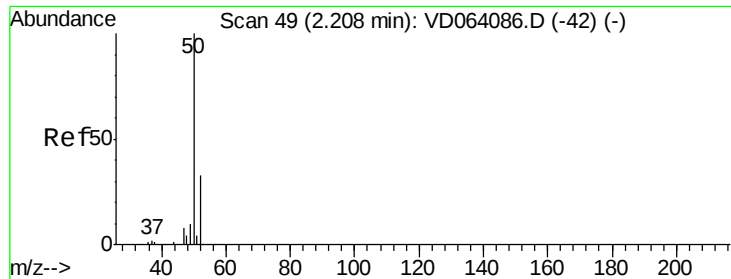
87 29.8 15.9 47.7



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC





#3

Chloromethane

Concen: 21.666 ug/l

RT: 2.21 min Scan# 49

Delta R.T. 0.00 min

Lab File: VD064085.D

Acq: 29 Oct 2019 13:09

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

Tgt Ion: 50 Resp: 78115

Ion Ratio Lower Upper

50 100

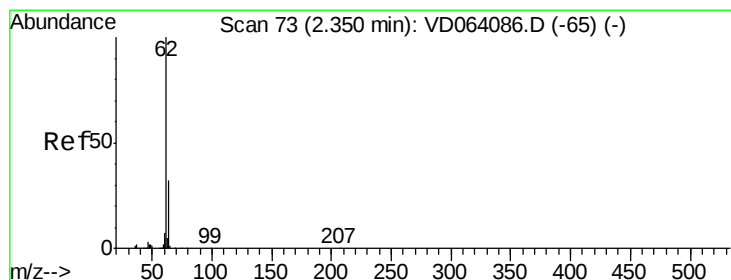
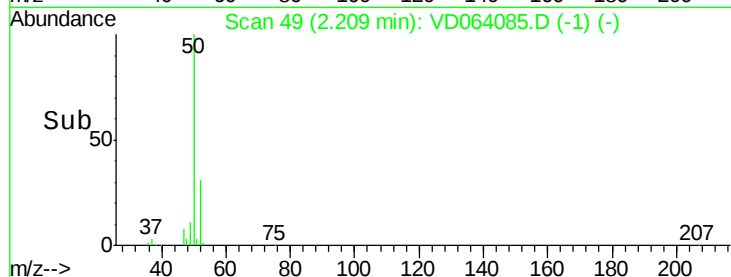
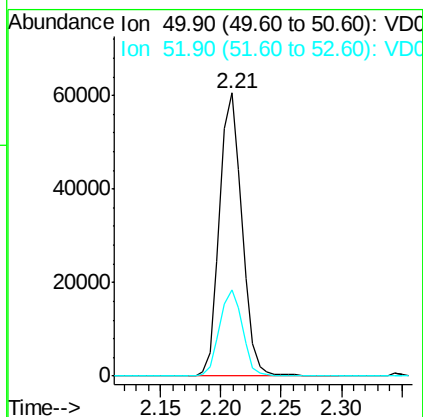
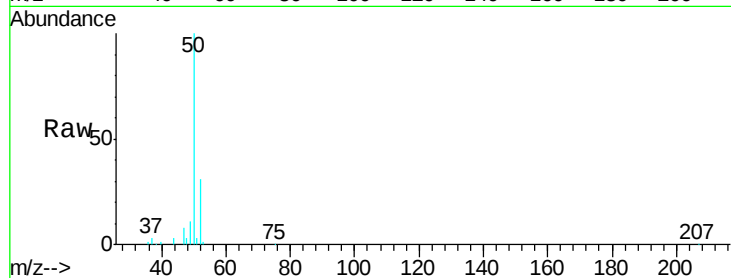
52 30.6 26.5 39.7

Manual Integrations

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10/30/2019 10:58:09 AM



#4

Vinyl Chloride

Concen: 21.690 ug/l

RT: 2.35 min Scan# 73

Delta R.T. 0.00 min

Lab File: VD064085.D

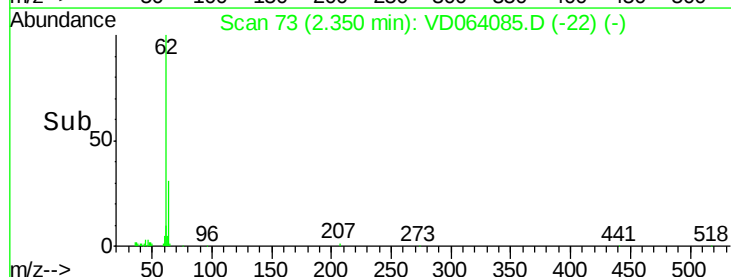
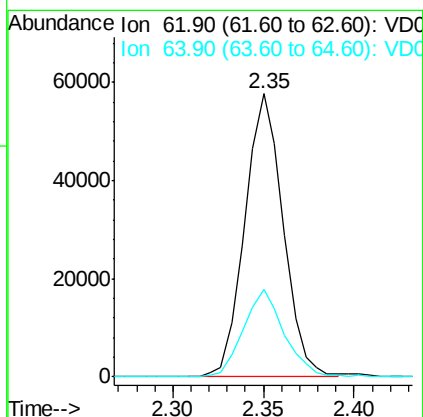
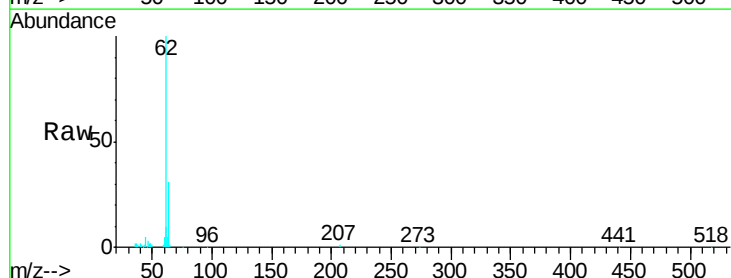
Acq: 29 Oct 2019 13:09

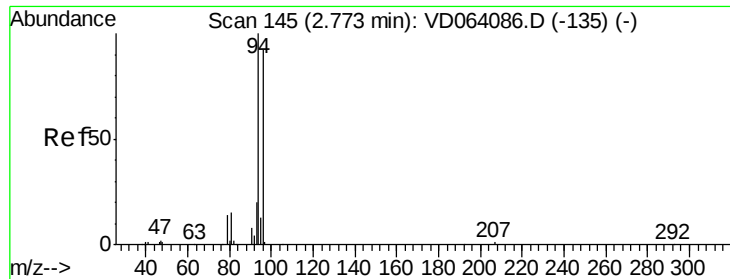
Tgt Ion: 62 Resp: 84805

Ion Ratio Lower Upper

62 100

64 30.9 25.6 38.4





#5

Bromomethane

Concen: 20.672 ug/l

RT: 2.76 min Scan# 142

Delta R.T. -0.02 min

Lab File: VD064085.D

Acq: 29 Oct 2019 13:09

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

Tgt Ion: 94 Resp: 52673

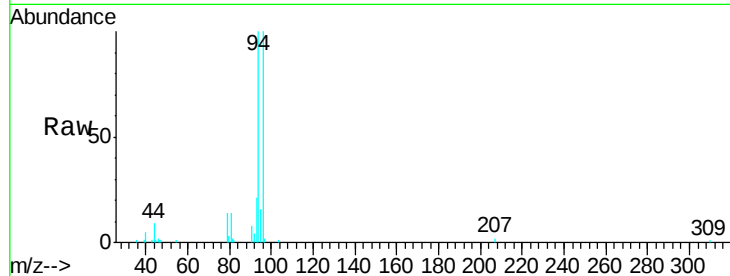
Ion Ratio Lower Upper

94 100

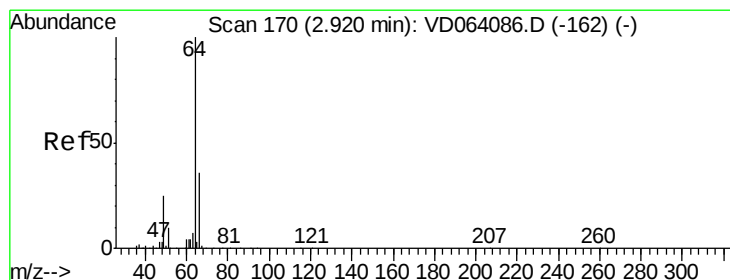
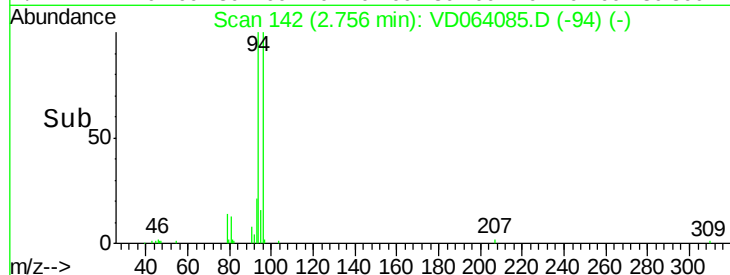
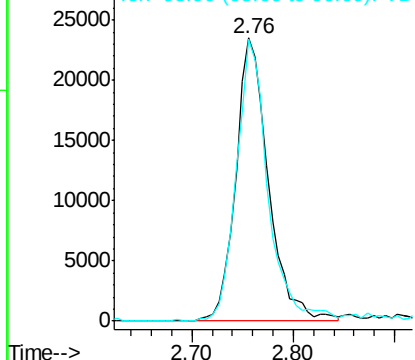
96 99.8 73.9 110.9

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MMDadoda
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Abundance Ion 93.90 (93.60 to 94.60): VDC
Ion 95.90 (95.60 to 96.60): VDC



#6

Chloroethane

Concen: 22.037 ug/l

RT: 2.92 min Scan# 170

Delta R.T. 0.00 min

Lab File: VD064085.D

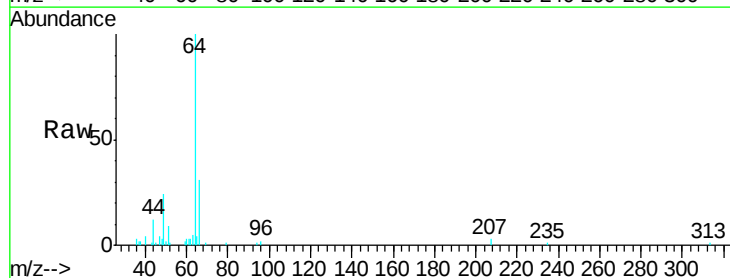
Acq: 29 Oct 2019 13:09

Tgt Ion: 64 Resp: 53516

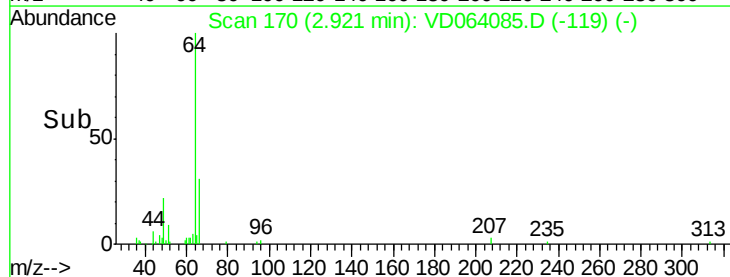
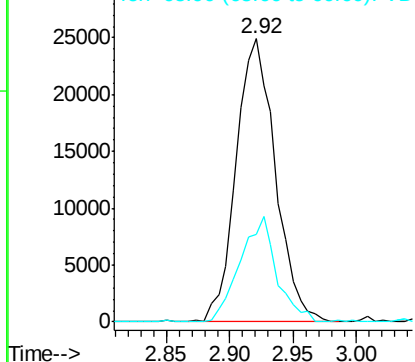
Ion Ratio Lower Upper

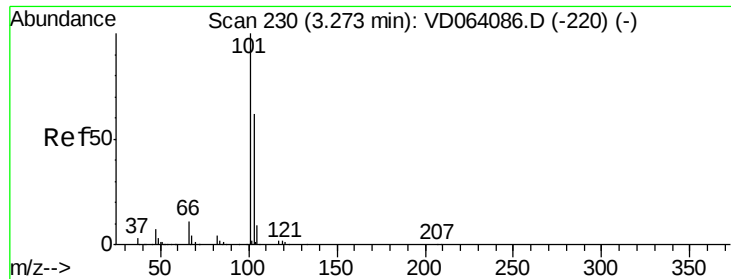
64 100

66 30.9 28.7 43.1



Abundance Ion 63.90 (63.60 to 64.60): VDC
Ion 65.90 (65.60 to 66.60): VDC





#7

Trichlorofluoromethane

Concen: 21.958 ug/l

RT: 3.27 min Scan# 229

Delta R.T. -0.01 min

Lab File: VD064085.D

Acq: 29 Oct 2019 13:09

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

Tgt Ion: 101 Resp: 118187

Ion Ratio Lower Upper

101 100

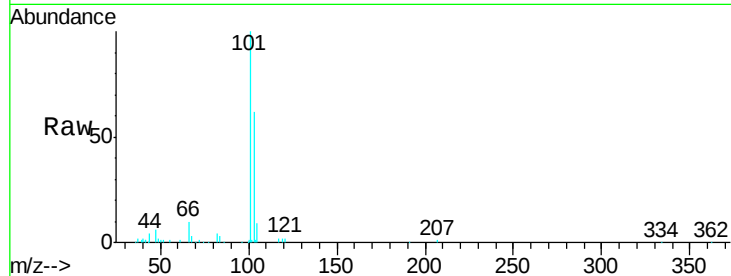
103 61.6 49.6 74.4

Manual Integrations

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Abundance Ion 100.90 (100.60 to 101.60): V

Ion 102.80 (102.50 to 103.50): V

3.27

60000

50000

40000

30000

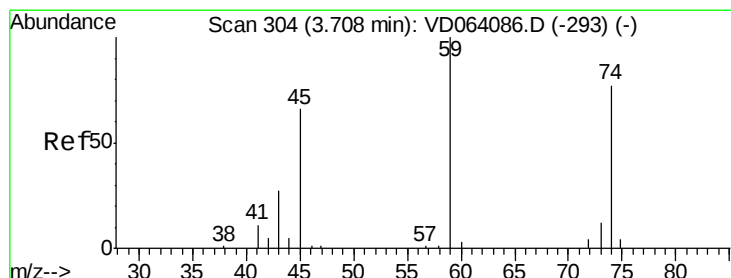
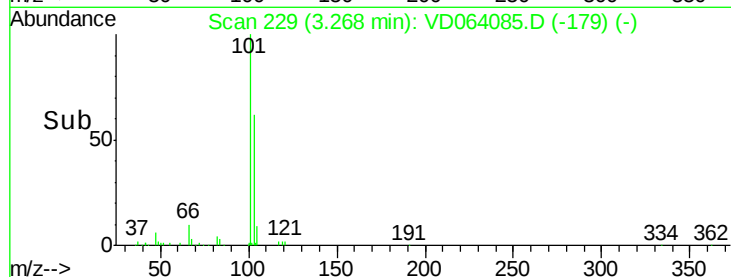
20000

10000

0

Time-->

3.20 3.30 3.40



#8

Diethyl Ether

Concen: 18.647 ug/l

RT: 3.70 min Scan# 303

Delta R.T. -0.01 min

Lab File: VD064085.D

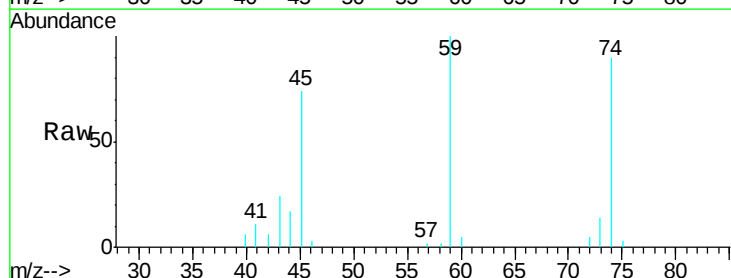
Acq: 29 Oct 2019 13:09

Tgt Ion: 74 Resp: 17445

Ion Ratio Lower Upper

74 100

45 91.3 44.1 132.3



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.00 (44.70 to 45.70): VDC

3.70

8000

6000

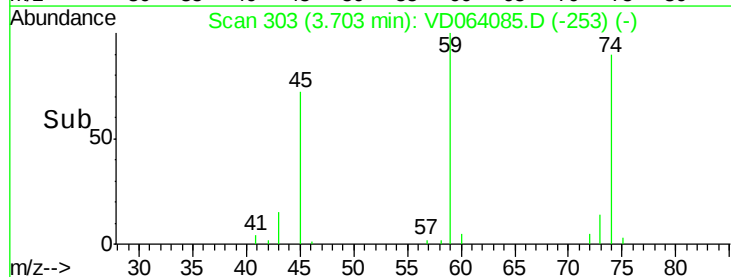
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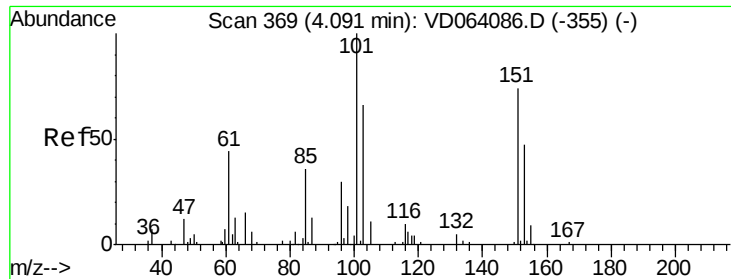
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Time-->

3.60 3.65 3.70 3.75 3.80





#9

1,1,2-Trichlorotrifluoroethane

Concen: 21.407 ug/l

RT: 4.10 min Scan# 370

Delta R.T. 0.01 min

Lab File: VD064085.D

Acq: 29 Oct 2019 13:09

Instrument :

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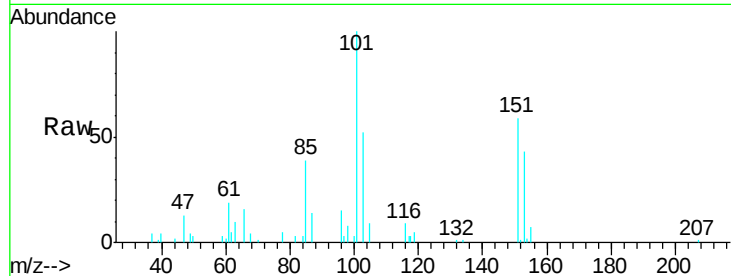
ClientSampleId :

VSTDIC020

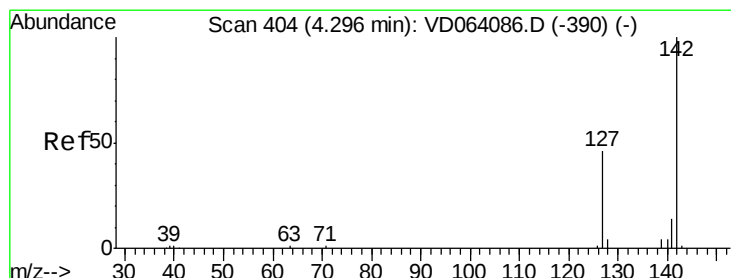
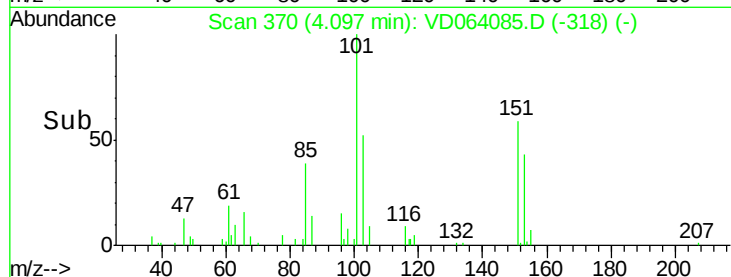
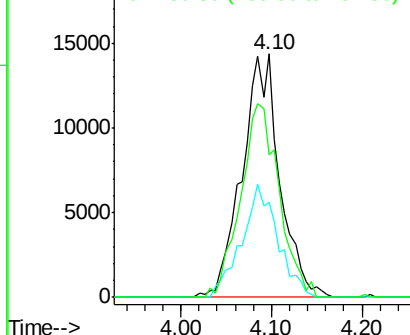
Tgt Ion:	101	Resp:	41522
Ion Ratio	Lower	Upper	
101	100		
85	44.2	35.3	52.9
151	80.7	67.0	100.6

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Abundance Ion 100.90 (100.60 to 101.60): V
Ion 84.90 (84.60 to 85.60): V
Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 19.987 ug/l

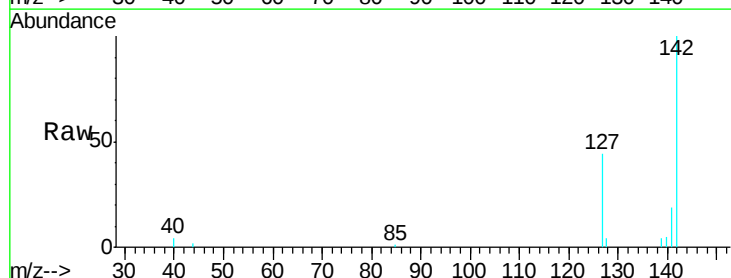
RT: 4.29 min Scan# 403

Delta R.T. -0.01 min

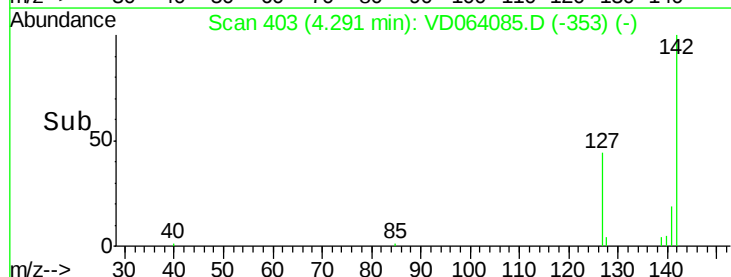
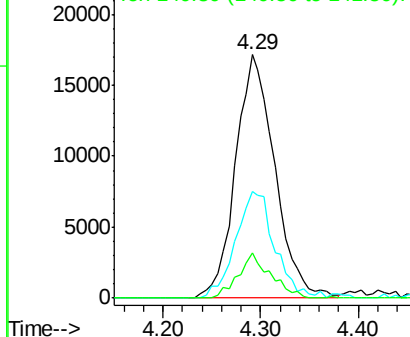
Lab File: VD064085.D

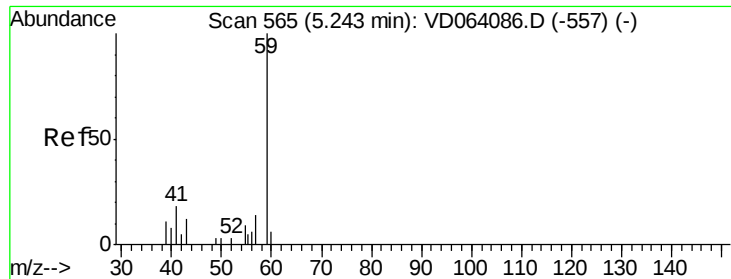
Acq: 29 Oct 2019 13:09

Tgt Ion:	142	Resp:	48031
Ion Ratio	Lower	Upper	
142	100		
127	43.7	35.1	52.7
141	15.3	11.6	17.4



Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V





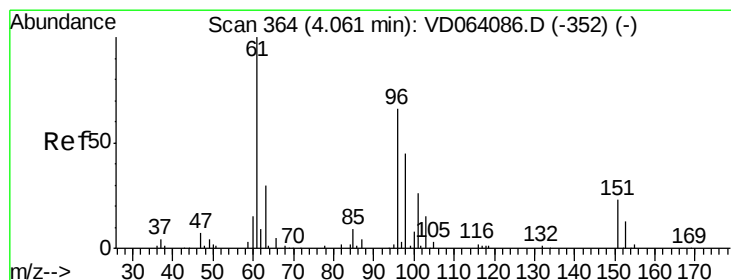
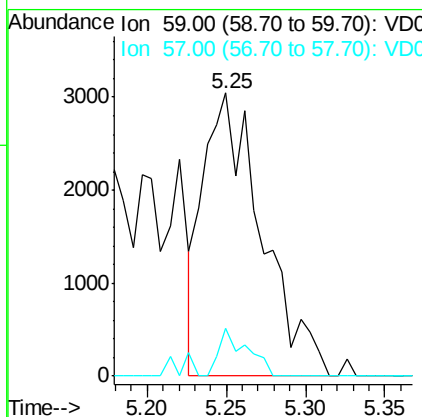
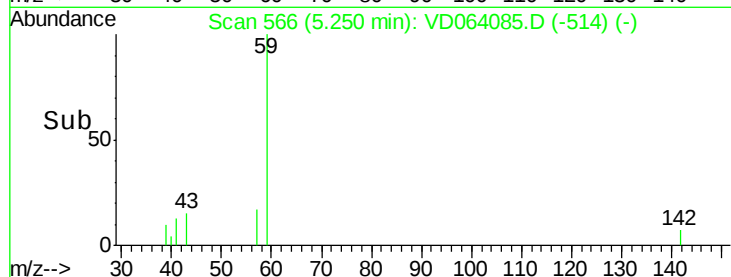
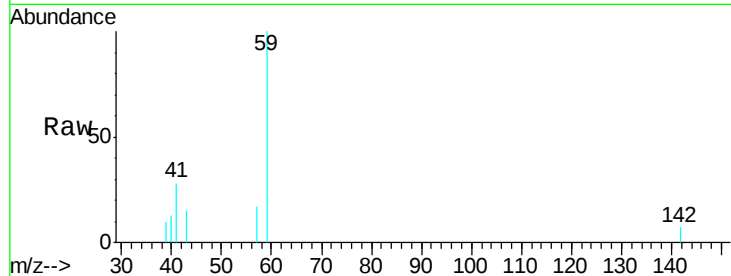
#11
Tert butyl alcohol
Concen: 55.522 ug/l
RT: 5.25 min Scan# 566
Delta R.T. 0.01 min
Lab File: VD064085.D
Acq: 29 Oct 2019 13:09

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tgt Ion: 59 Resp: 7877
Ion Ratio Lower Upper
59 100
57 7.9 8.7 13.1#

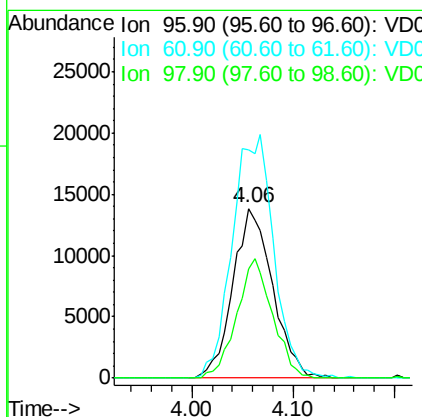
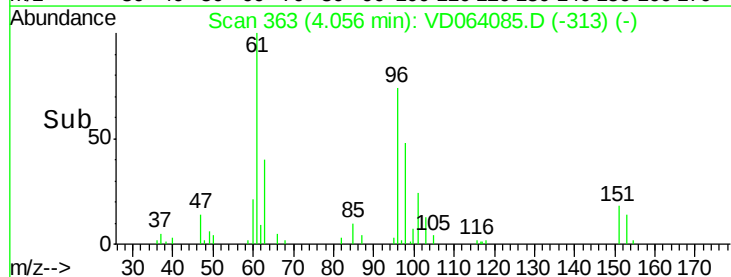
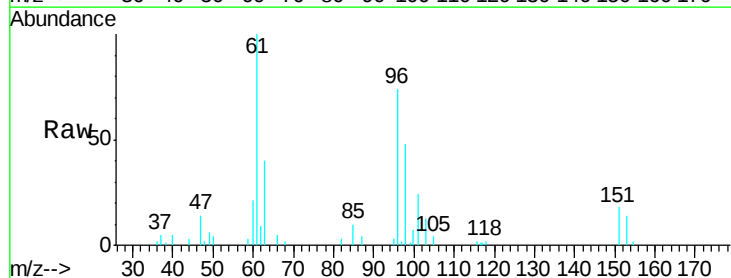
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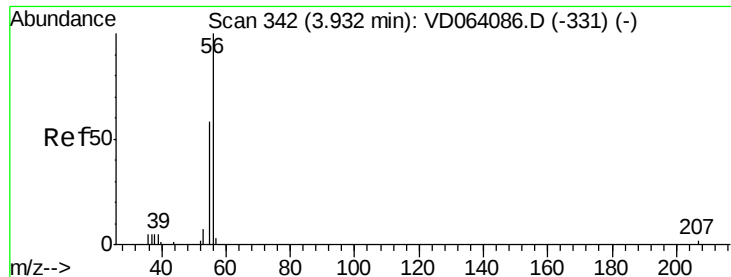
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#12
1,1-Dichloroethene
Concen: 20.488 ug/l
RT: 4.06 min Scan# 363
Delta R.T. -0.01 min
Lab File: VD064085.D
Acq: 29 Oct 2019 13:09

Tgt Ion: 96 Resp: 37611
Ion Ratio Lower Upper
96 100
61 134.3 121.8 182.6
98 64.4 55.4 83.0





#13

Acrolein

Concen: 92.355 ug/l

RT: 3.93 min Scan# 341

Delta R.T. -0.01 min

Lab File: VD064085.D

Acq: 29 Oct 2019 13:09

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

Tgt Ion: 56 Resp: 9911

Ion Ratio Lower Upper

56 100

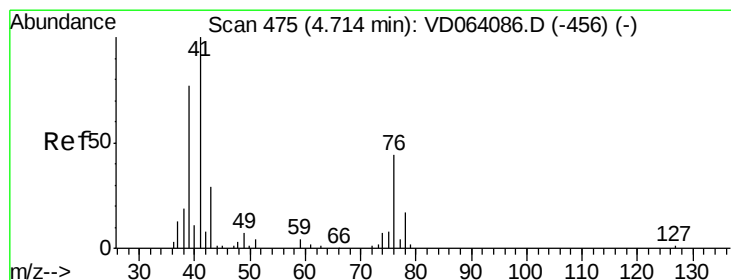
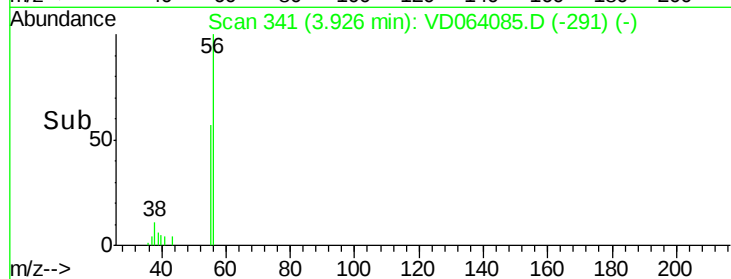
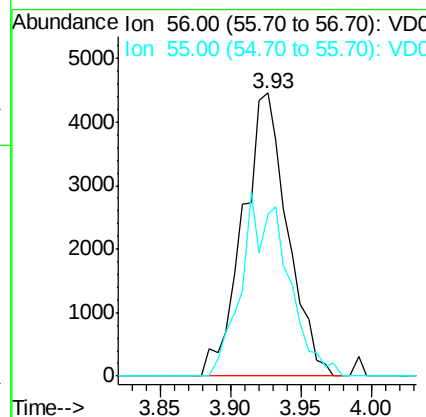
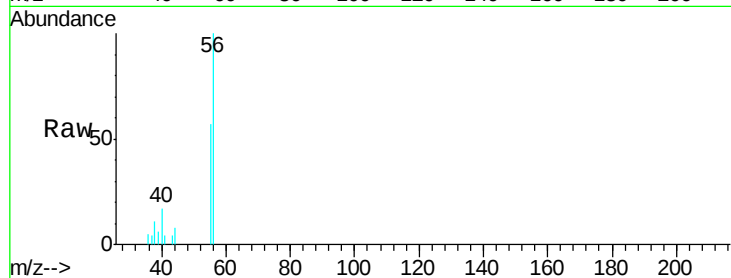
55 65.7 53.8 80.6

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#14

Allyl chloride

Concen: 20.453 ug/l

RT: 4.71 min Scan# 475

Delta R.T. 0.00 min

Lab File: VD064085.D

Acq: 29 Oct 2019 13:09

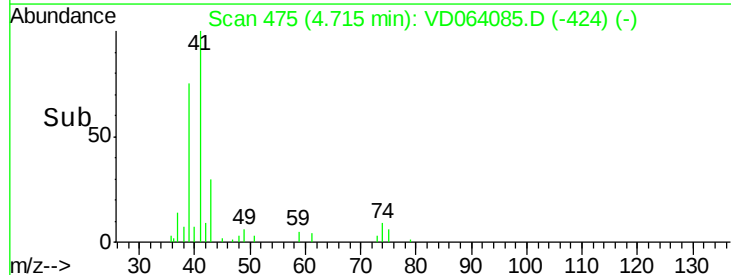
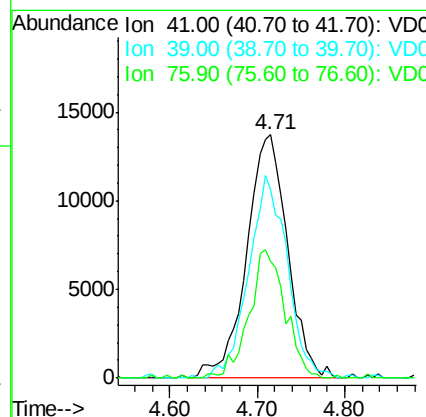
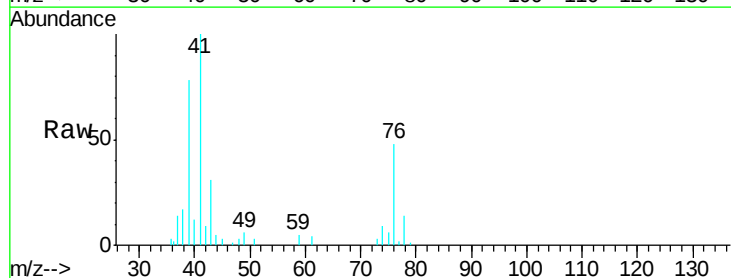
Tgt Ion: 41 Resp: 43945

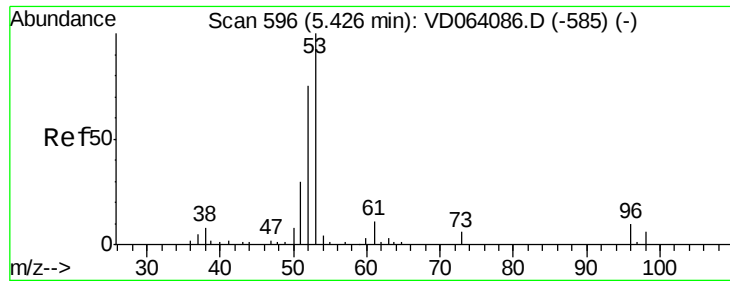
Ion Ratio Lower Upper

41 100

39 78.2 61.5 92.3

76 46.3 36.2 54.4





#15

Acrylonitrile

Concen: 98.625 ug/l

RT: 5.43 min Scan# 597

Delta R.T. 0.01 min

Lab File: VD064085.D

Acq: 29 Oct 2019 13:09

Instrument :

MSVOA_D

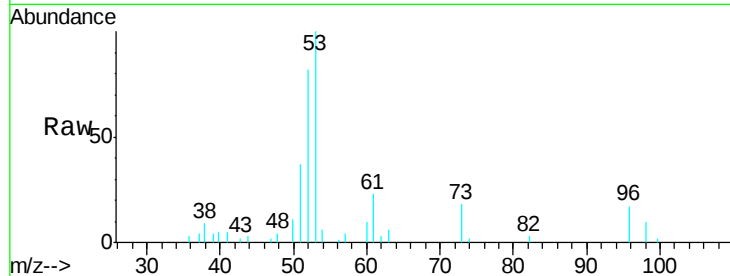
ClientSampleId :

VSTDIC020

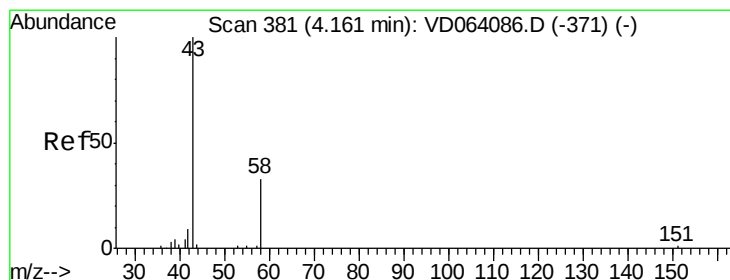
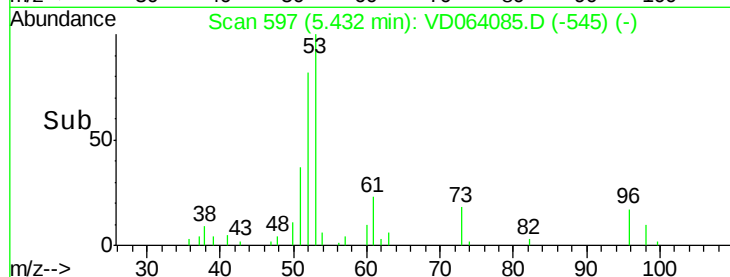
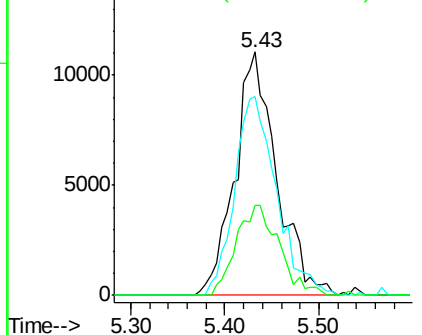
Tgt Ion:	53	Resp:	34083
Ion	Ratio	Lower	Upper
53	100		
52	82.2	66.2	99.4
51	37.9	29.0	43.6

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



#16

Acetone

Concen: 88.720 ug/l

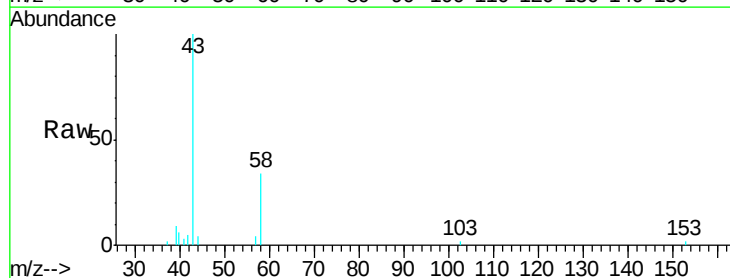
RT: 4.17 min Scan# 382

Delta R.T. 0.01 min

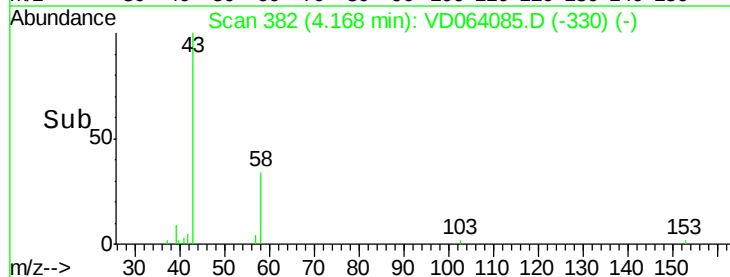
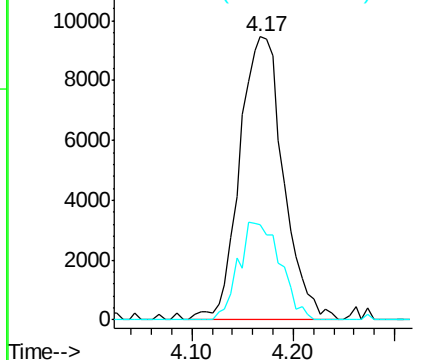
Lab File: VD064085.D

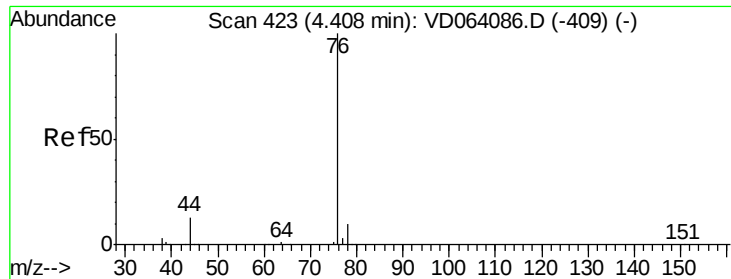
Acq: 29 Oct 2019 13:09

Tgt Ion:	43	Resp:	28411
Ion	Ratio	Lower	Upper
43	100		
58	33.6	26.3	39.5



Abundance Ion 43.00 (42.70 to 43.70): VDC
Ion 58.00 (57.70 to 58.70): VDC





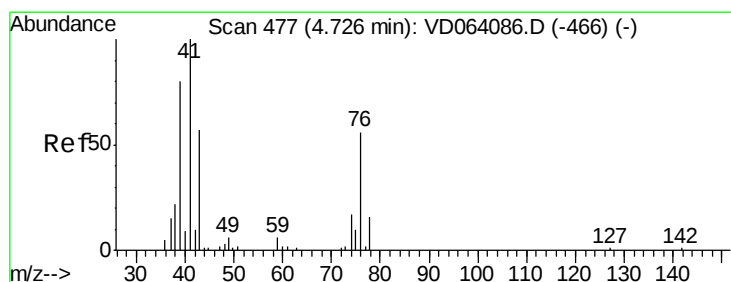
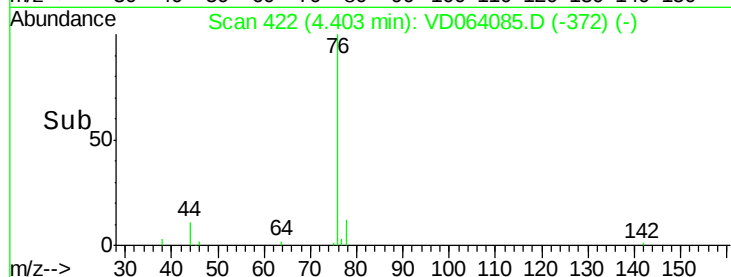
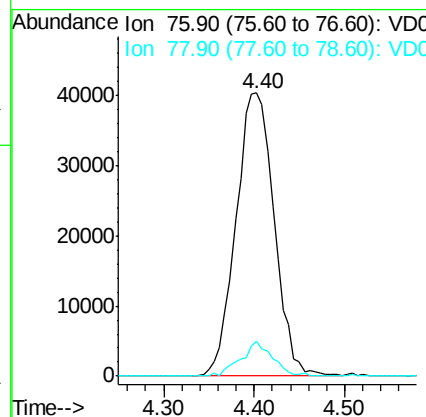
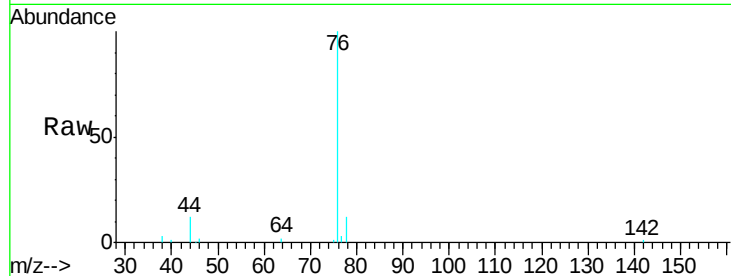
#17
Carbon Disulfide
Concen: 20.954 ug/l
RT: 4.40 min Scan# 422
Delta R.T. -0.01 min
Lab File: VD064085.D
Acq: 29 Oct 2019 13:09

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tgt Ion: 76 Resp: 118205
Ion Ratio Lower Upper
76 100
78 12.5 8.1 12.1#

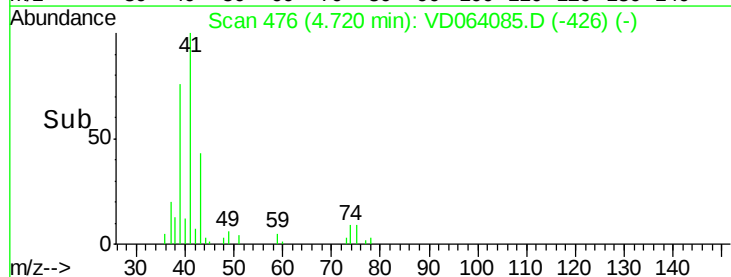
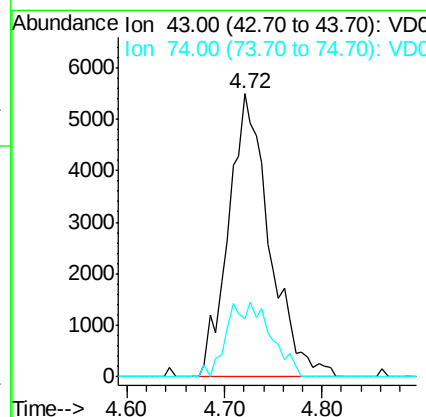
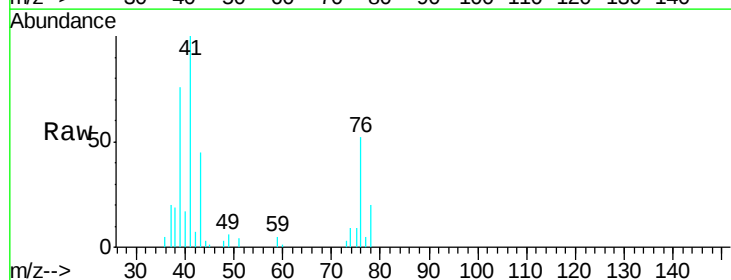
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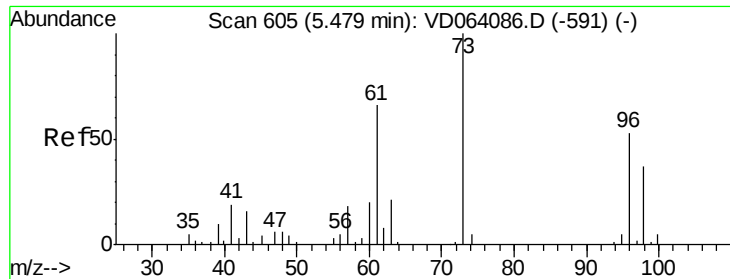
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#18
Methyl Acetate
Concen: 18.862 ug/l
RT: 4.72 min Scan# 476
Delta R.T. -0.01 min
Lab File: VD064085.D
Acq: 29 Oct 2019 13:09

Tgt Ion: 43 Resp: 16067
Ion Ratio Lower Upper
43 100
74 12.6 22.2 33.4#





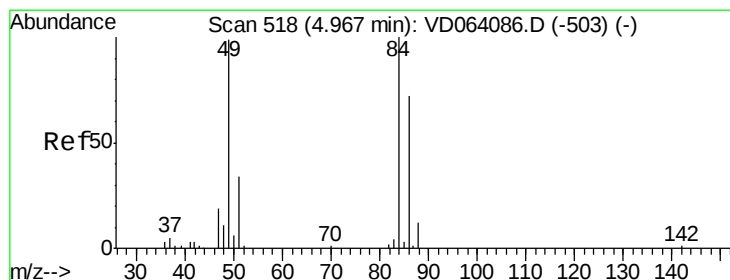
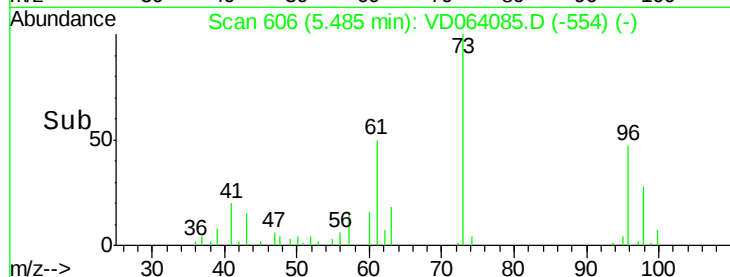
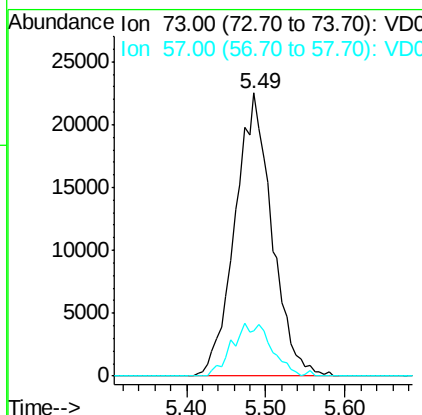
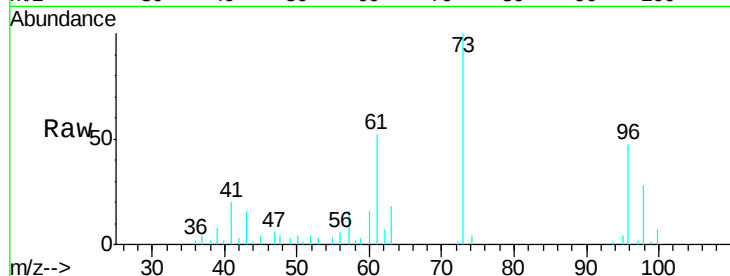
#19
Methyl tert-butyl Ether
Concen: 19.564 ug/l
RT: 5.49 min Scan# 606
Delta R.T. 0.01 min
Lab File: VD064085.D
Acq: 29 Oct 2019 13:09

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tgt Ion: 73 Resp: 72877
Ion Ratio Lower Upper
73 100
57 16.0 14.3 21.5

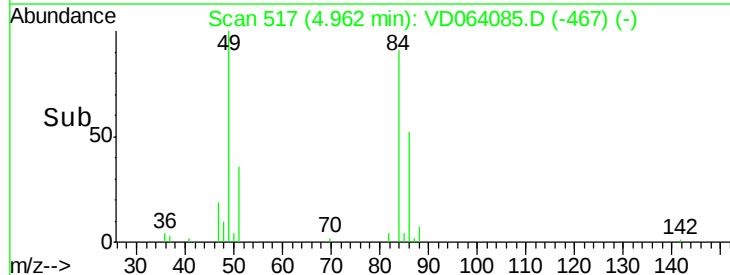
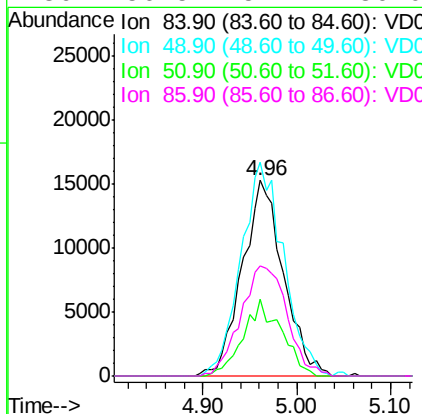
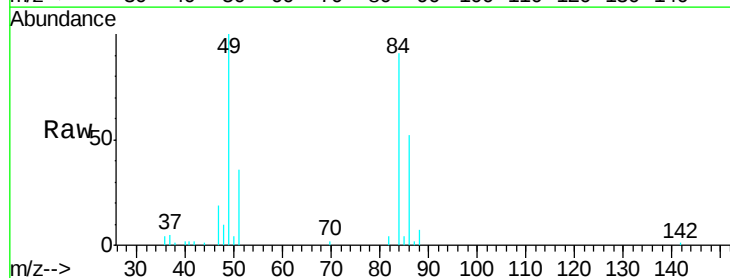
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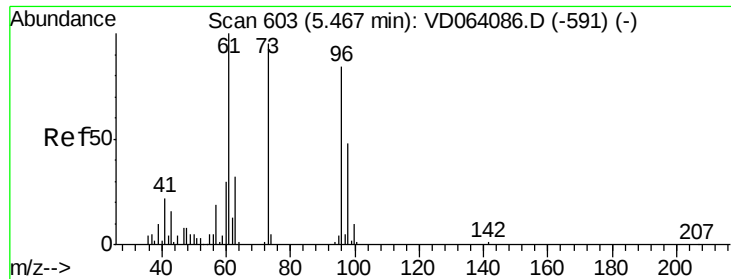
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#20
Methylene Chloride
Concen: 20.289 ug/l
RT: 4.96 min Scan# 517
Delta R.T. -0.01 min
Lab File: VD064085.D
Acq: 29 Oct 2019 13:09

Tgt Ion: 84 Resp: 46424
Ion Ratio Lower Upper
84 100
49 109.3 79.4 119.0
51 39.3 27.4 41.2
86 56.5 57.4 86.0#





#21

trans-1,2-Dichloroethene

Concen: 21.114 ug/l

RT: 5.48 min Scan# 605

Delta R.T. 0.01 min

Lab File: VD064085.D

Acq: 29 Oct 2019 13:09

Instrument :

MSVOA_D

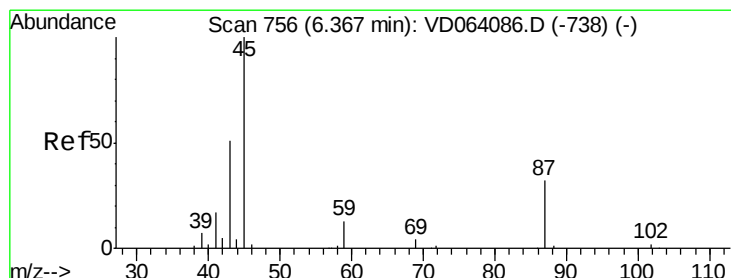
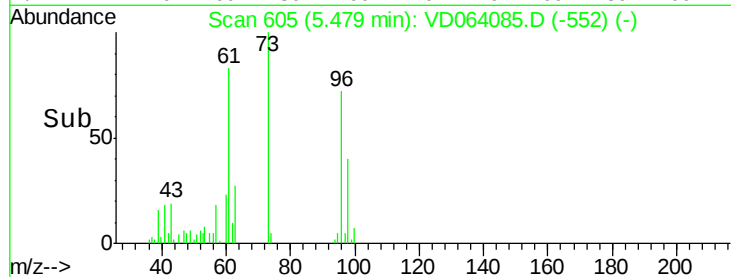
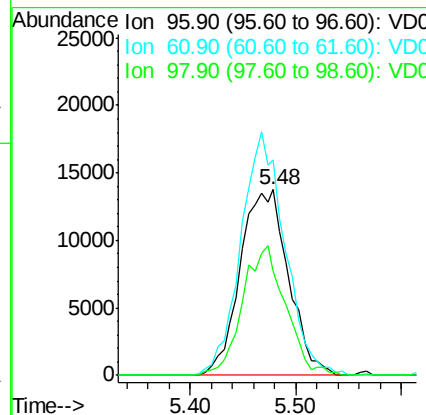
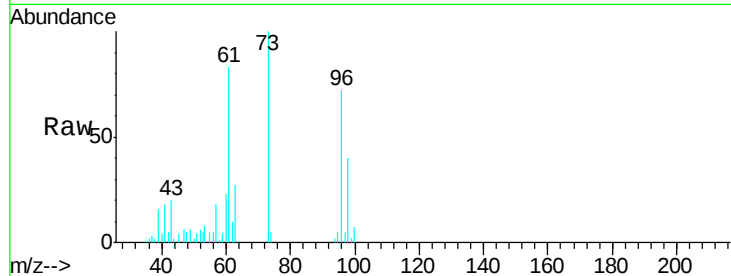
ClientSampleId :

VSTDIC020

Tgt Ion:	96	Resp:	43510
Ion	Ratio	Lower	Upper
96	100		
61	115.8	95.0	142.6
98	56.1	45.8	68.8

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#22

Diisopropyl ether

Concen: 19.840 ug/l

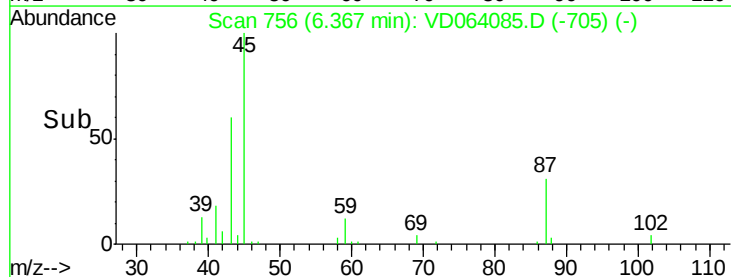
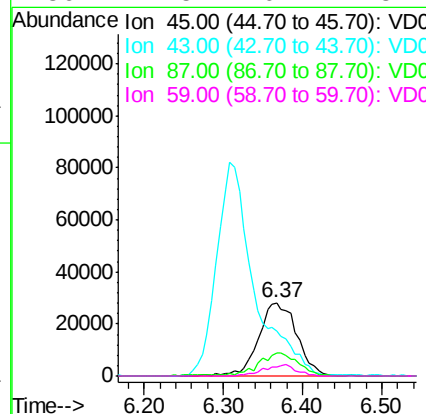
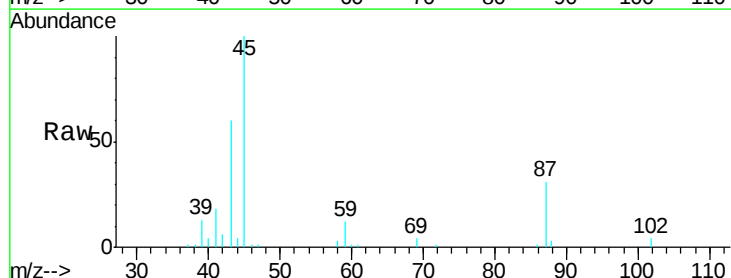
RT: 6.37 min Scan# 756

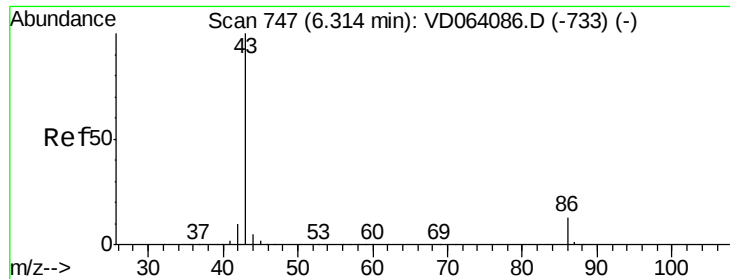
Delta R.T. 0.00 min

Lab File: VD064085.D

Acq: 29 Oct 2019 13:09

Tgt Ion:	45	Resp:	94408
Ion	Ratio	Lower	Upper
45	100		
43	58.7	44.3	66.5
87	31.1	26.6	39.8
59	12.5	10.2	15.2





#23

Vinyl Acetate

Concen: 101.701 ug/l

RT: 6.31 min Scan# 746

Delta R.T. -0.01 min

Lab File: VD064085.D

Acq: 29 Oct 2019 13:09

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

Tgt Ion: 43 Resp: 270886

Ion Ratio Lower Upper

43 100

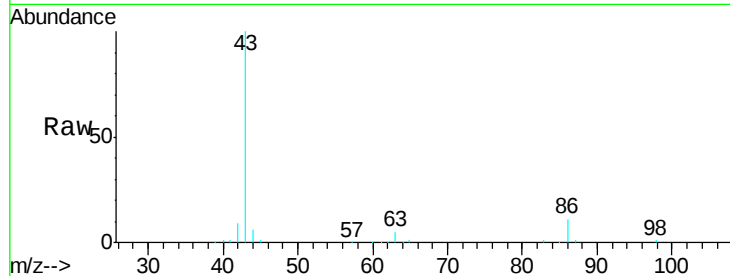
86 11.4 10.7 16.1

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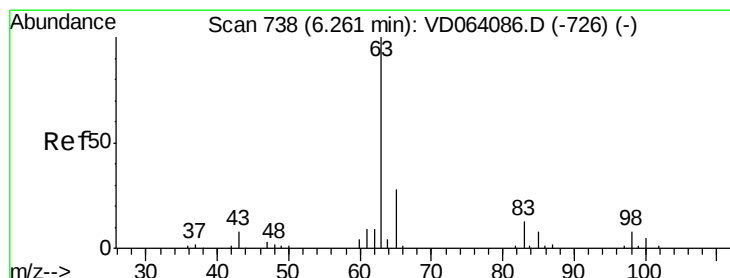
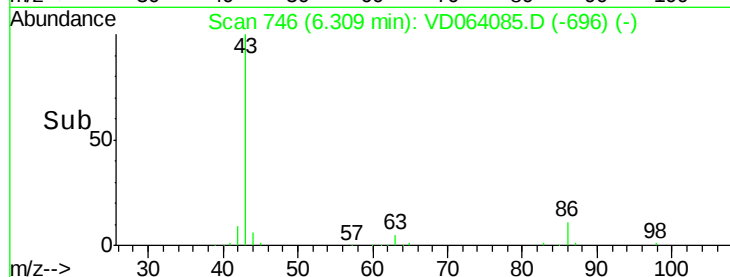
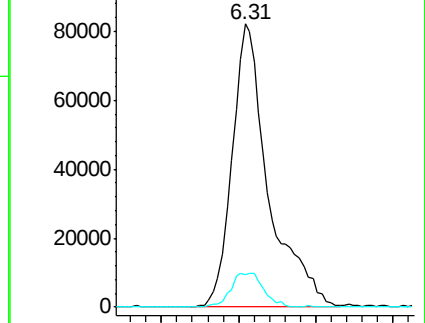
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Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 86.00 (85.70 to 86.70): VDC



#24

1,1-Dichloroethane

Concen: 21.052 ug/l

RT: 6.26 min Scan# 738

Delta R.T. 0.00 min

Lab File: VD064085.D

Acq: 29 Oct 2019 13:09

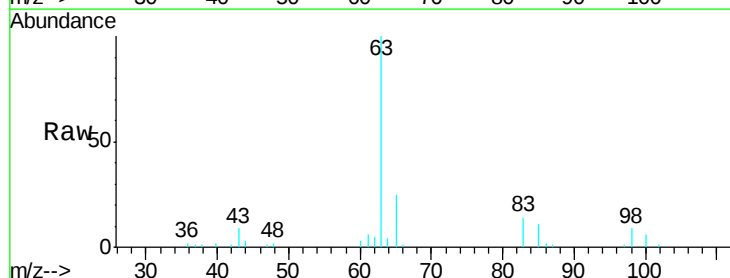
Tgt Ion: 63 Resp: 67647

Ion Ratio Lower Upper

63 100

98 9.1 4.0 11.9

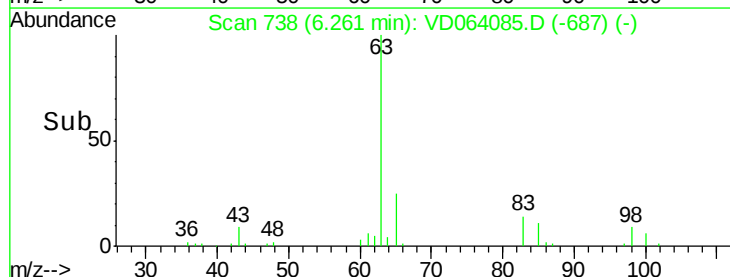
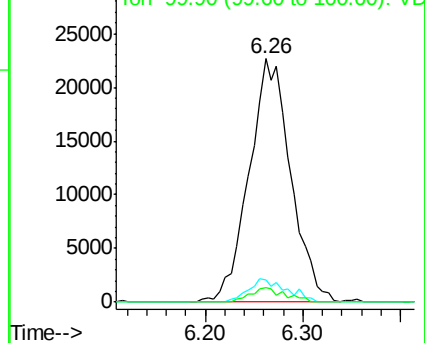
100 5.9 2.6 7.8

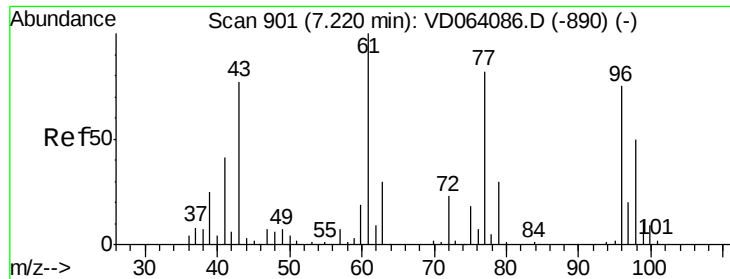


Abundance Ion 62.90 (62.60 to 63.60): VDC

Ion 97.90 (97.60 to 98.60): VDC

Ion 99.90 (99.60 to 100.60): VDC





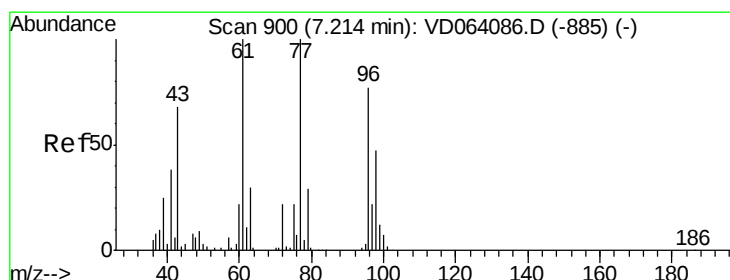
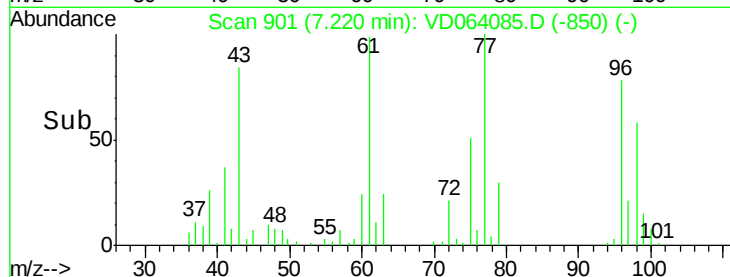
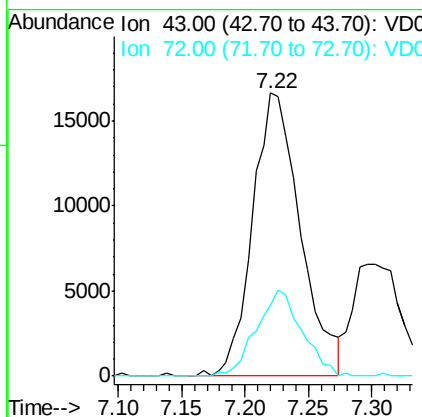
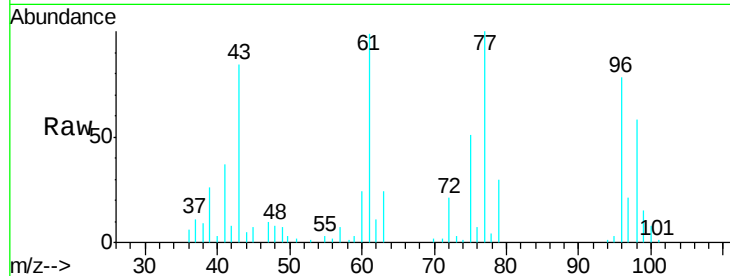
#25
2-Butanone
Concen: 98.950 ug/l
RT: 7.22 min Scan# 901
Delta R.T. 0.00 min
Lab File: VD064085.D
Acq: 29 Oct 2019 13:09

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tgt Ion: 43 Resp: 43806
Ion Ratio Lower Upper
43 100
72 25.3 23.4 35.0

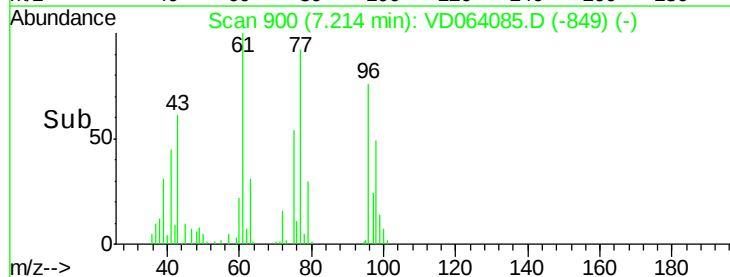
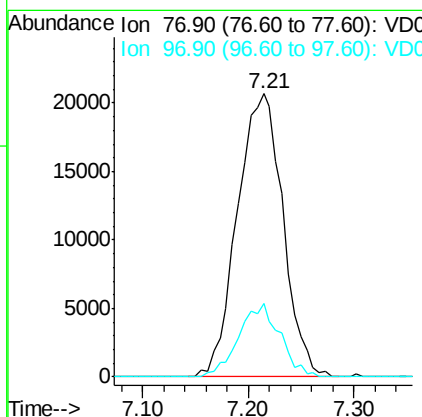
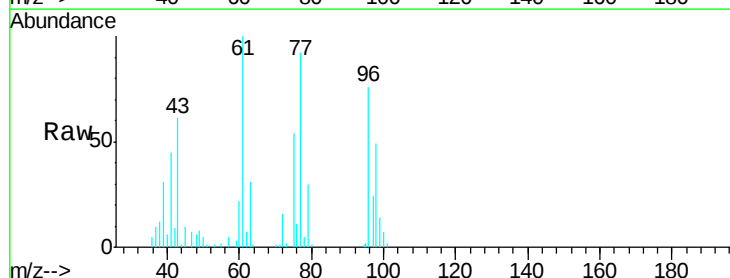
Manual Integrations
APPROVED

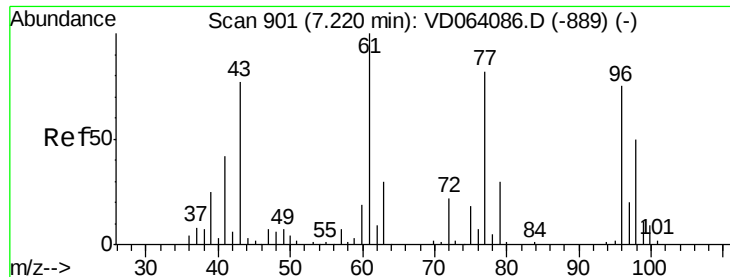
MMDadoda
10/30/2019 10:58:09 AM



#26
2,2-Dichloropropane
Concen: 20.294 ug/l
RT: 7.21 min Scan# 900
Delta R.T. 0.00 min
Lab File: VD064085.D
Acq: 29 Oct 2019 13:09

Tgt Ion: 77 Resp: 61892
Ion Ratio Lower Upper
77 100
97 23.6 11.2 33.5





#27

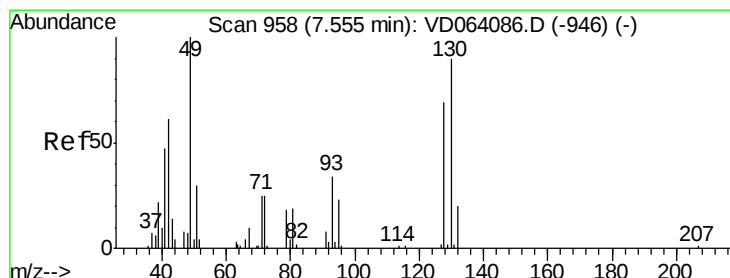
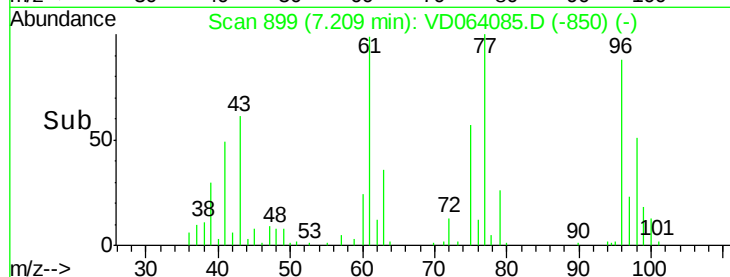
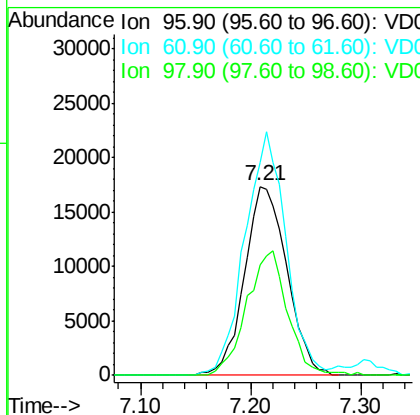
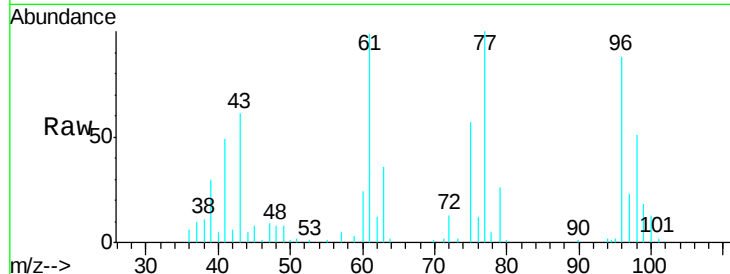
cis-1,2-Dichloroethene
Concen: 20.232 ug/l
RT: 7.21 min Scan# 899
Delta R.T. -0.01 min
Lab File: VD064085.D
Acq: 29 Oct 2019 13:09

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tgt Ion	Ratio	Lower	Upper
96	100		
61	124.6	0.0	258.0
98	64.0	0.0	130.8

Manual Integrations
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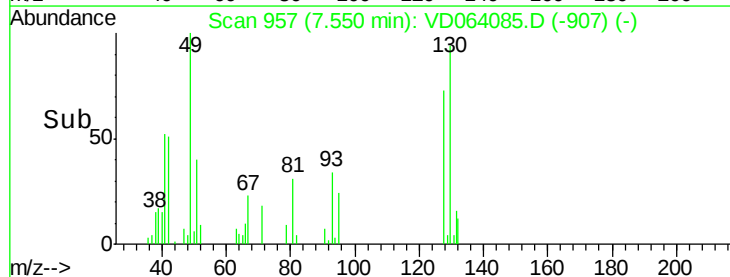
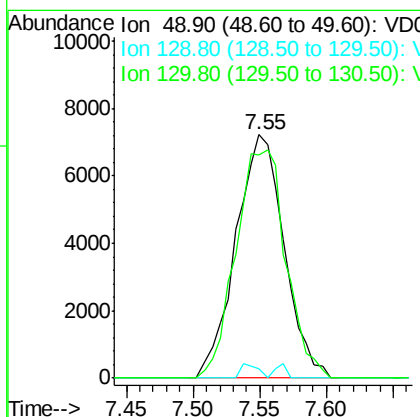
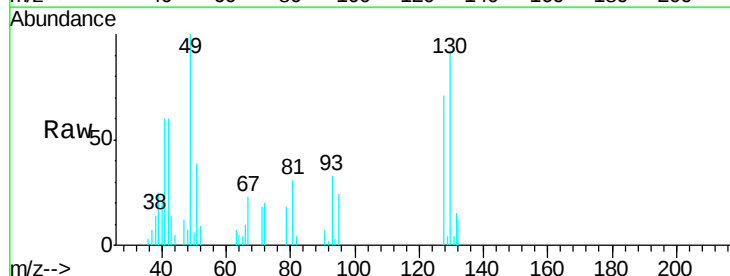
MMDadoda
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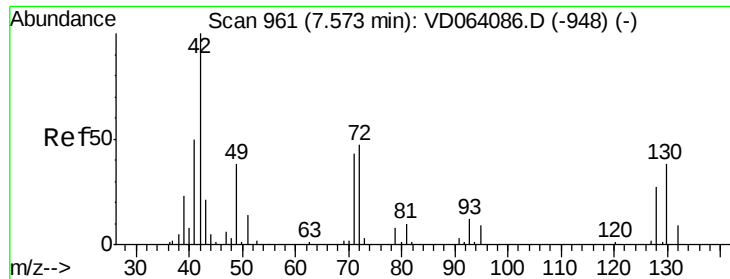


#28

Bromochloromethane
Concen: 15.431 ug/l
RT: 7.55 min Scan# 957
Delta R.T. -0.01 min
Lab File: VD064085.D
Acq: 29 Oct 2019 13:09

Tgt Ion	Ratio	Lower	Upper
49	100		
129	1.4	0.0	5.4
130	97.1	75.3	112.9





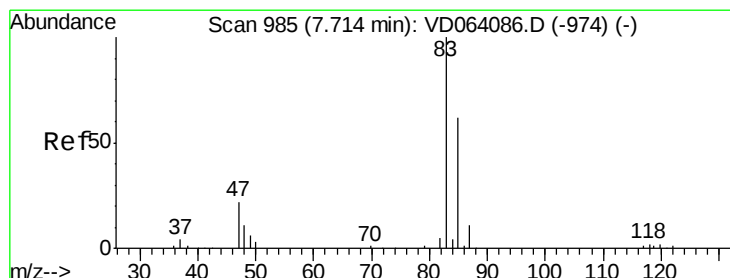
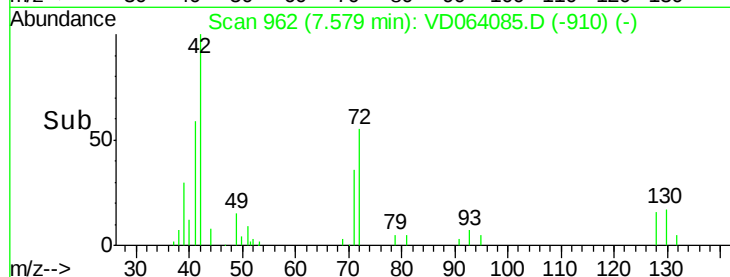
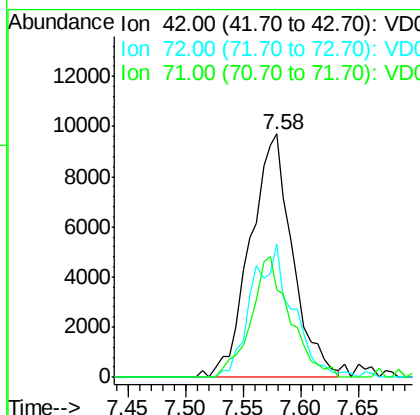
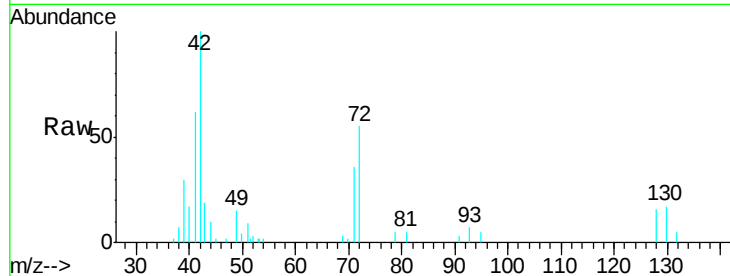
#29
Tetrahydrofuran
Concen: 95.826 ug/l
RT: 7.58 min Scan# 962
Delta R.T. 0.01 min
Lab File: VD064085.D
Acq: 29 Oct 2019 13:09

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tgt Ion	Ratio	Lower	Upper
42	100		
72	53.0	38.9	58.3
71	45.7	35.4	53.2

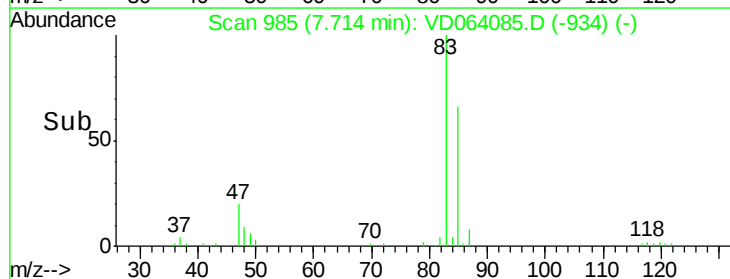
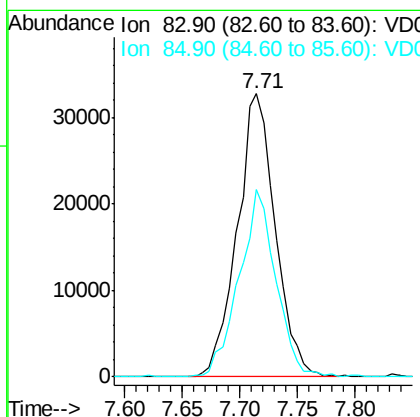
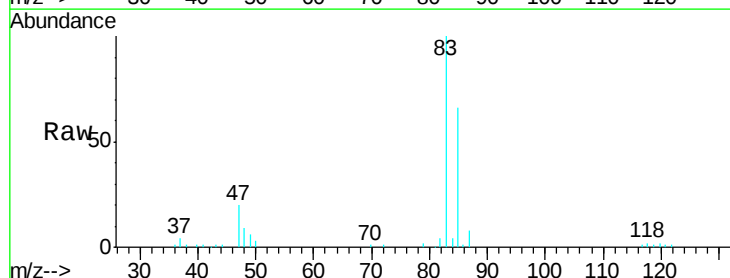
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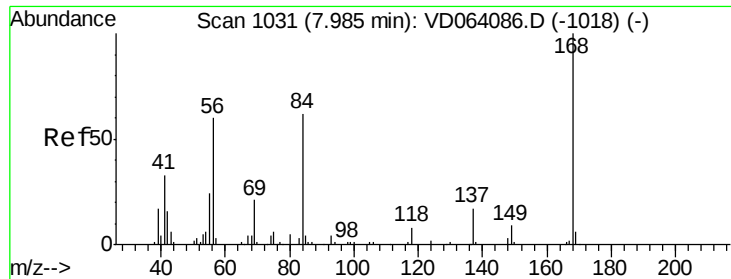
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#30
Chloroform
Concen: 20.364 ug/l
RT: 7.71 min Scan# 985
Delta R.T. 0.00 min
Lab File: VD064085.D
Acq: 29 Oct 2019 13:09

Tgt Ion	Ratio	Lower	Upper
83	100		
85	66.2	49.8	74.6





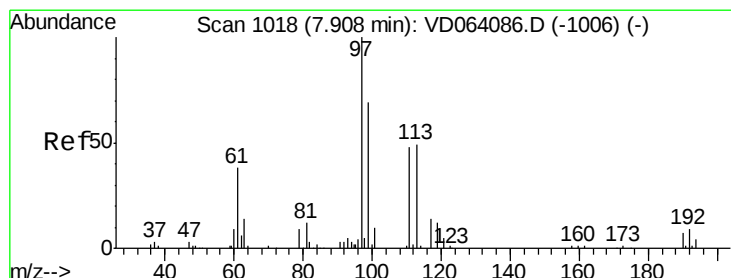
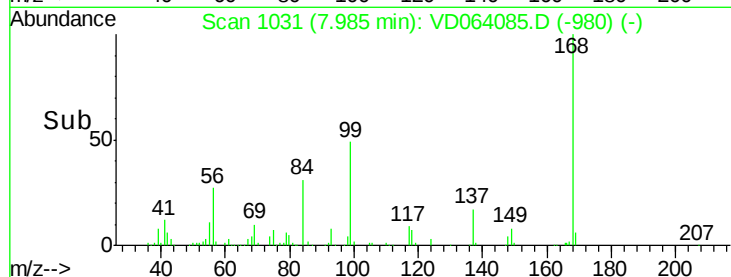
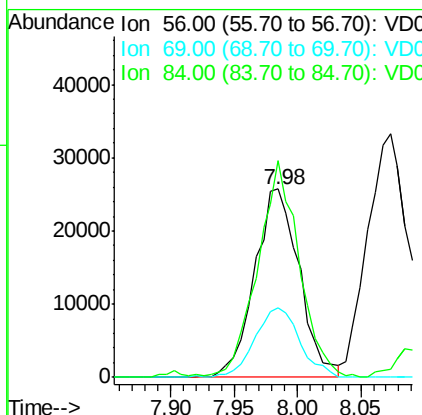
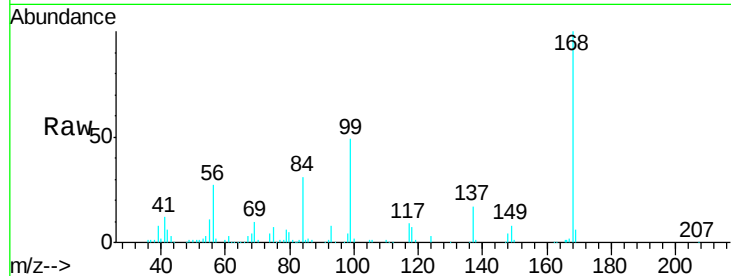
#31
Cyclohexane
Concen: 20.176 ug/l
RT: 7.98 min Scan# 1031
Delta R.T. 0.00 min
Lab File: VD064085.D
Acq: 29 Oct 2019 13:09

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tgt Ion	Ratio	Lower	Upper
56	100		
69	37.2	27.7	41.5
84	114.5	83.1	124.7

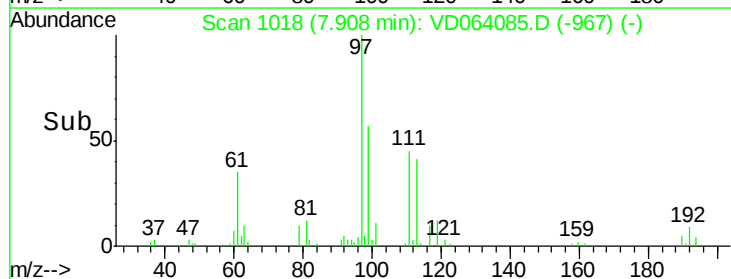
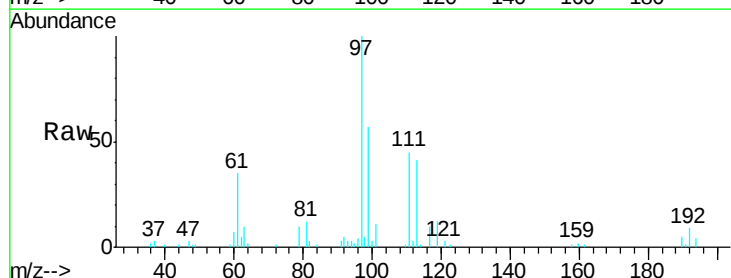
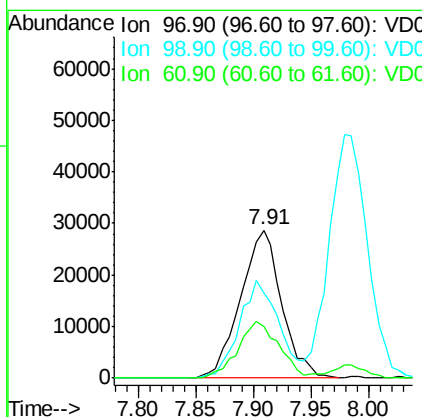
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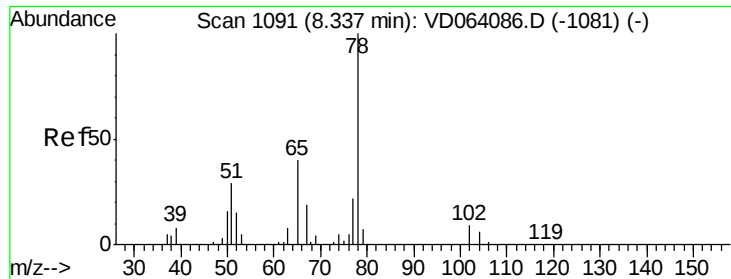
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#32
1,1,1-Trichloroethane
Concen: 20.761 ug/l
RT: 7.91 min Scan# 1018
Delta R.T. 0.00 min
Lab File: VD064085.D
Acq: 29 Oct 2019 13:09

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.1	53.7	80.5
61	38.4	31.8	47.6





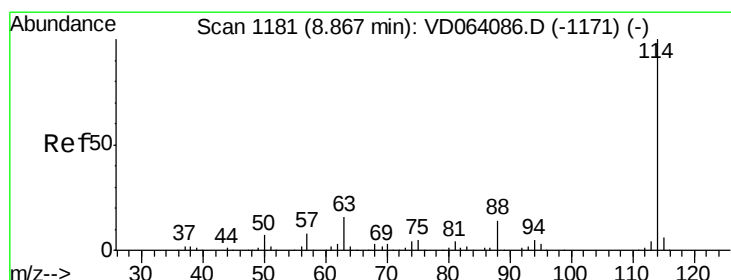
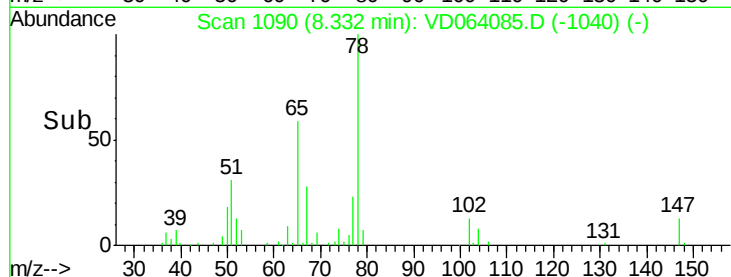
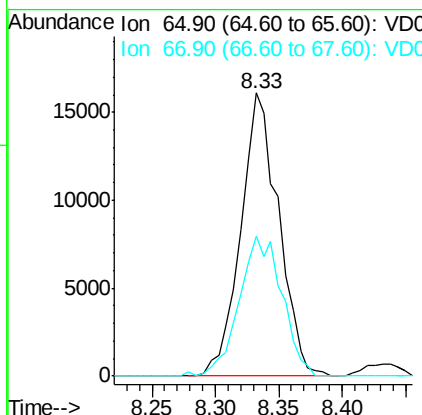
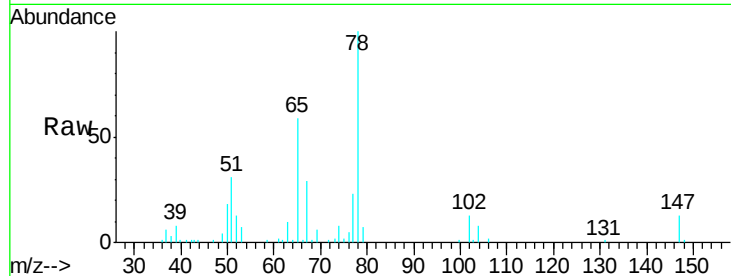
#33
 1,2-Dichloroethane-d4
 Concen: 19.876 ug/l
 RT: 8.33 min Scan# 1090
 Delta R.T. -0.01 min
 Lab File: VD064085.D
 Acq: 29 Oct 2019 13:09

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC020

Tgt Ion: 65 Resp: 33453
 Ion Ratio Lower Upper
 65 100
 67 55.8 0.0 104.6

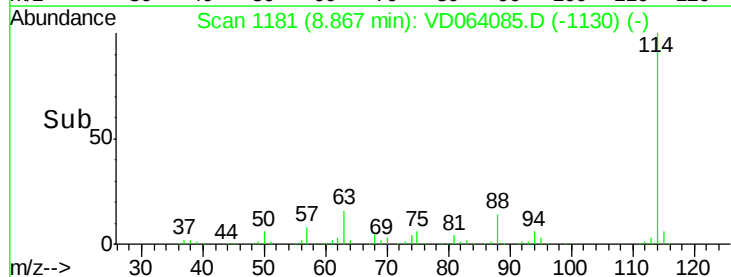
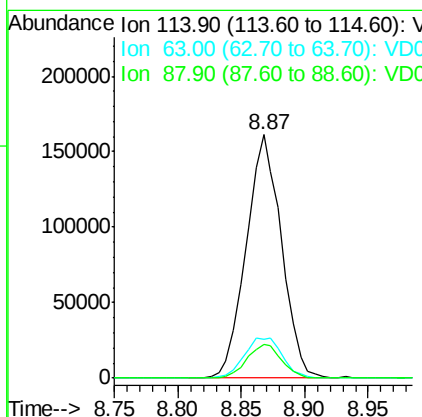
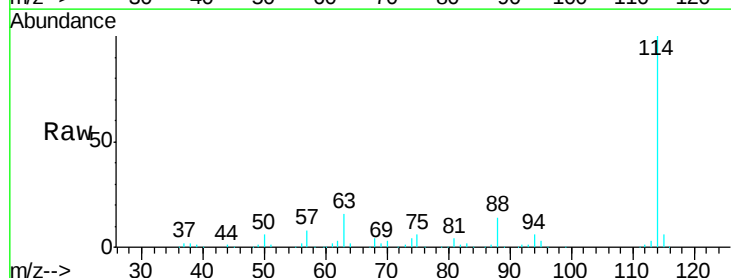
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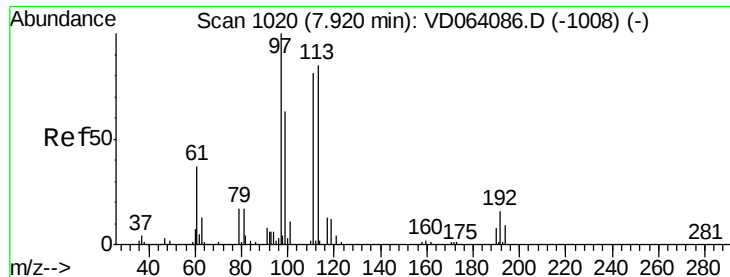
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.87 min Scan# 1181
 Delta R.T. 0.00 min
 Lab File: VD064085.D
 Acq: 29 Oct 2019 13:09

Tgt Ion: 114 Resp: 312065
 Ion Ratio Lower Upper
 114 100
 63 15.9 0.0 32.8
 88 13.8 0.0 27.6





#35

Dibromofluoromethane

Concen: 19.987 ug/l

RT: 7.92 min Scan# 1020

Delta R.T. 0.00 min

Lab File: VD064085.D

Acq: 29 Oct 2019 13:09

Instrument :

MSVOA_D

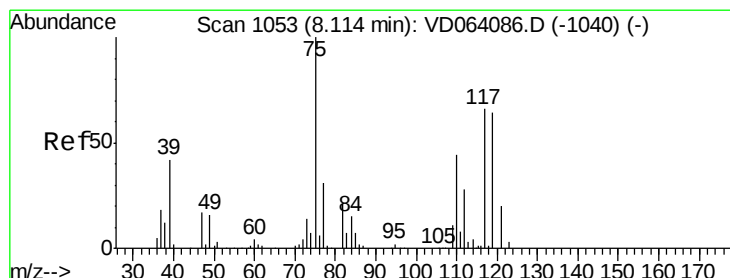
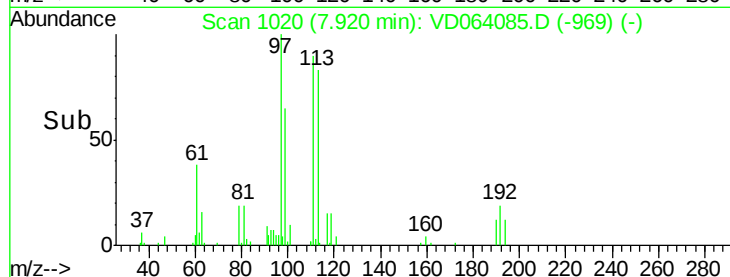
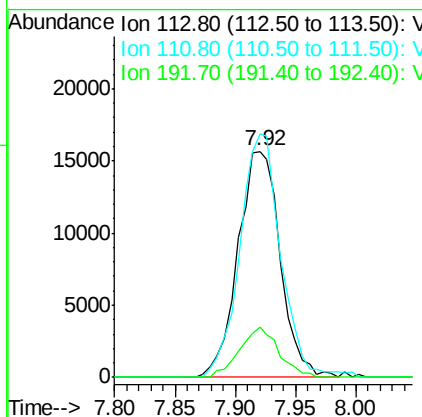
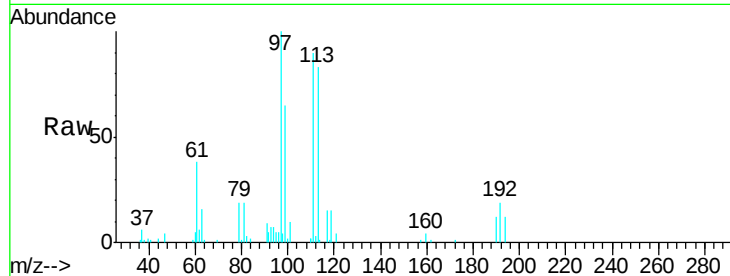
ClientSampleId :

VSTDIC020

Tgt Ion:	113	Resp:	38373
Ion	Ratio	Lower	Upper
113	100		
111	104.1	79.3	118.9
192	20.7	16.2	24.2

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#36

1,1-Dichloropropene

Concen: 20.766 ug/l

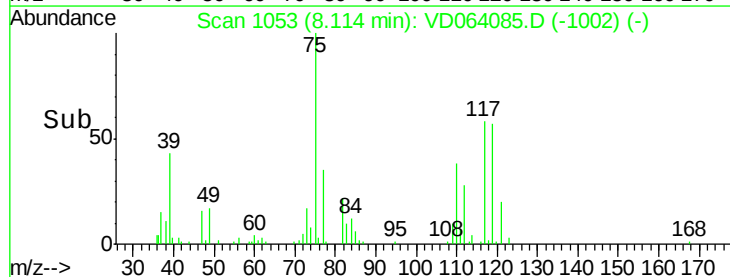
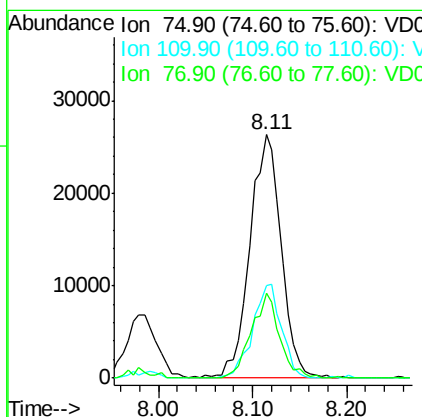
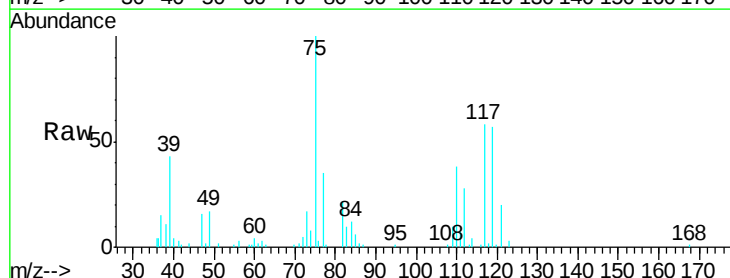
RT: 8.11 min Scan# 1053

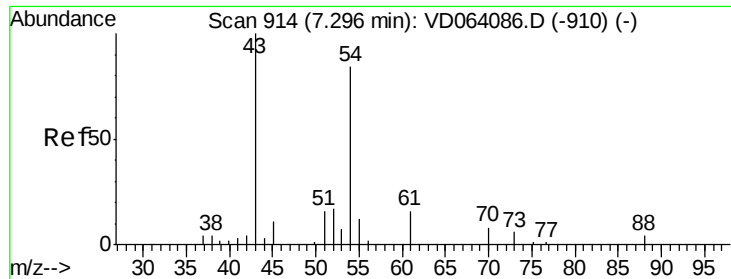
Delta R.T. 0.00 min

Lab File: VD064085.D

Acq: 29 Oct 2019 13:09

Tgt Ion:	75	Resp:	60722
Ion	Ratio	Lower	Upper
75	100		
110	35.4	20.0	59.9
77	31.5	24.7	37.1





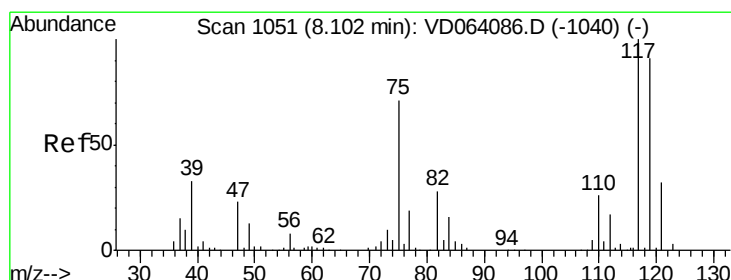
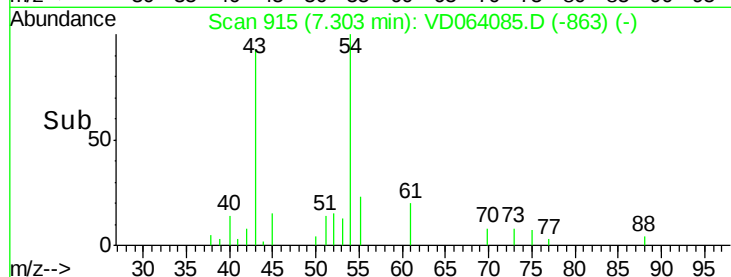
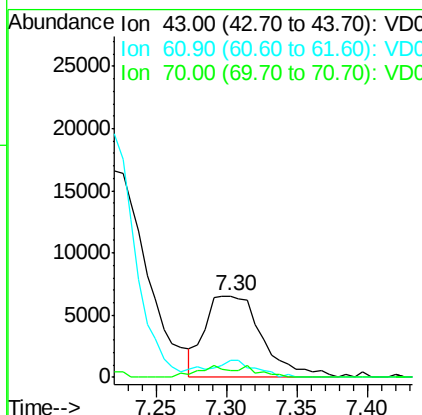
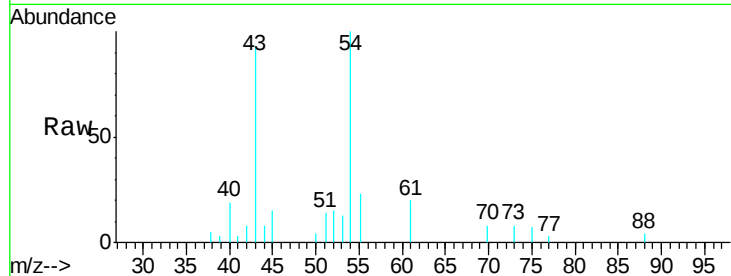
#37
Ethyl Acetate
Concen: 20.623 ug/l
RT: 7.30 min Scan# 915
Delta R.T. 0.01 min
Lab File: VD064085.D
Acq: 29 Oct 2019 13:09

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tgt Ion: 43 Resp: 18562
Ion Ratio Lower Upper
43 100
61 16.7 12.0 18.0
70 8.5 3.8 5.6#

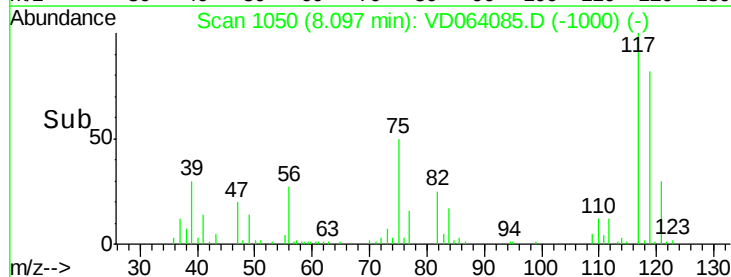
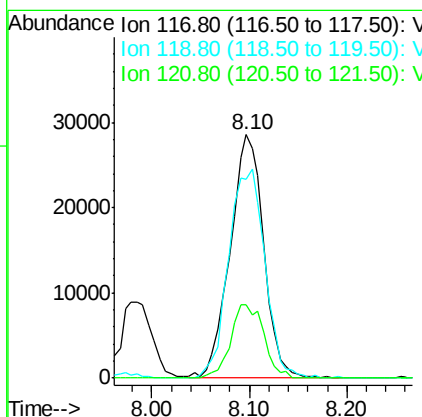
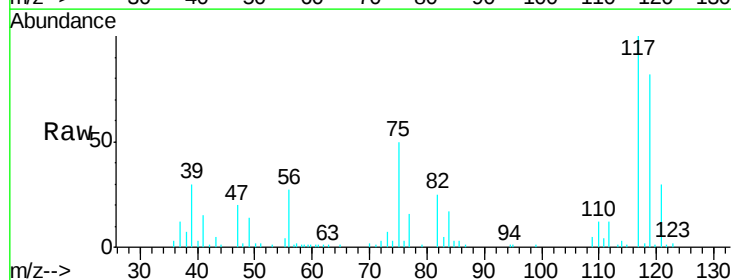
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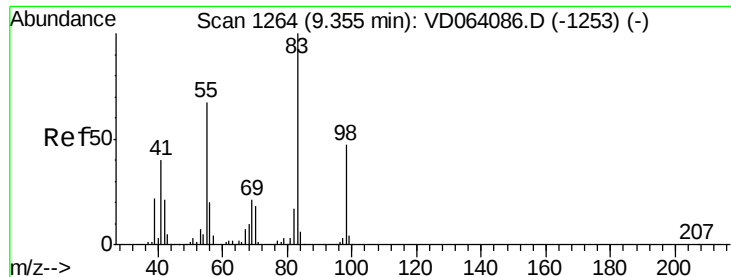
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#38
Carbon Tetrachloride
Concen: 21.415 ug/l
RT: 8.10 min Scan# 1050
Delta R.T. -0.01 min
Lab File: VD064085.D
Acq: 29 Oct 2019 13:09

Tgt Ion: 117 Resp: 68322
Ion Ratio Lower Upper
117 100
119 81.7 72.6 108.8
121 30.2 25.8 38.6





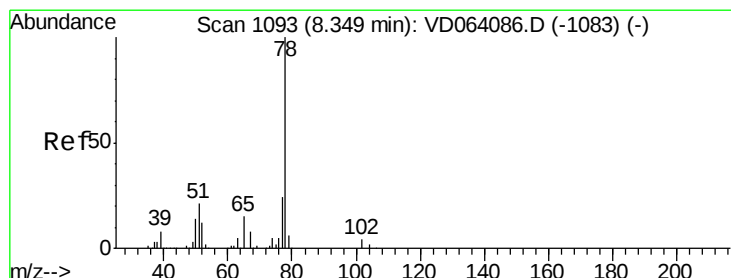
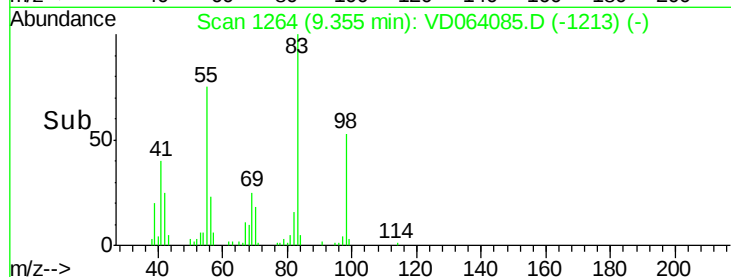
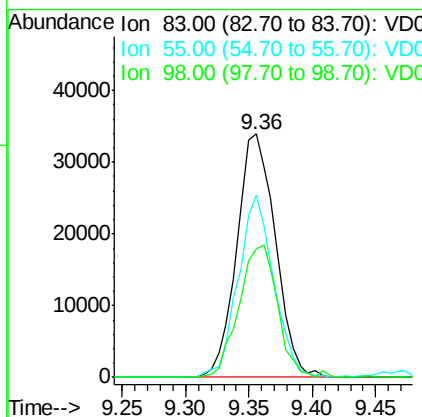
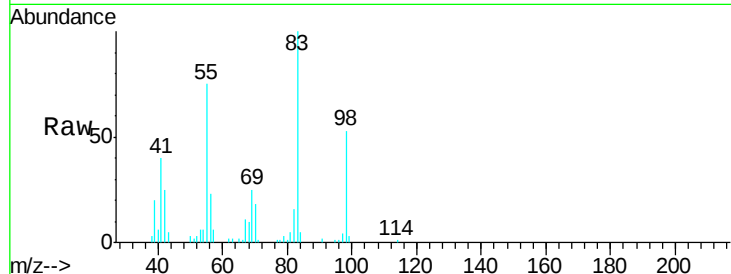
#39
Methylcyclohexane
Concen: 19.987 ug/l
RT: 9.36 min Scan# 1264
Delta R.T. 0.00 min
Lab File: VD064085.D
Acq: 29 Oct 2019 13:09

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tgt Ion	Ratio	Lower	Upper
83	100		
55	74.9	53.4	80.0
98	52.8	37.8	56.6

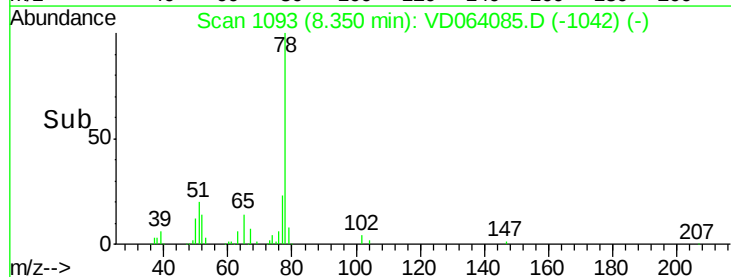
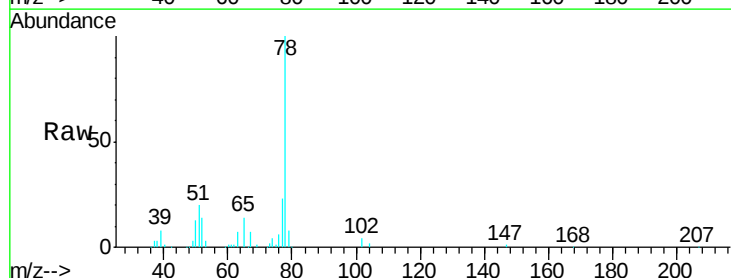
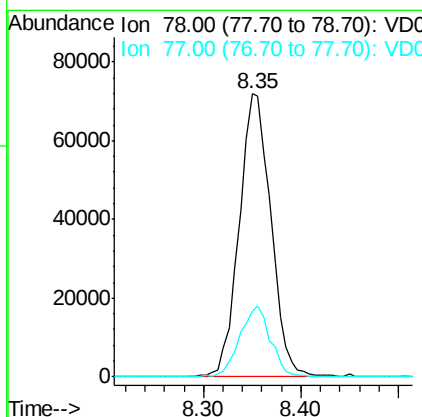
Manual Integrations
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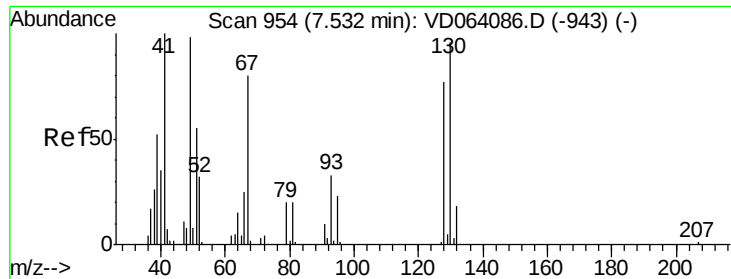
MMDadoda
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#40
Benzene
Concen: 20.384 ug/l
RT: 8.35 min Scan# 1093
Delta R.T. 0.00 min
Lab File: VD064085.D
Acq: 29 Oct 2019 13:09

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.2	19.0	28.4





#41

Methacrylonitrile

Concen: 14.931 ug/l

RT: 7.53 min Scan# 953

Delta R.T. -0.01 min

Lab File: VD064085.D

Acq: 29 Oct 2019 13:09

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

Tgt Ion: 41 Resp: 9120
Ion Ratio Lower Upper

41 100

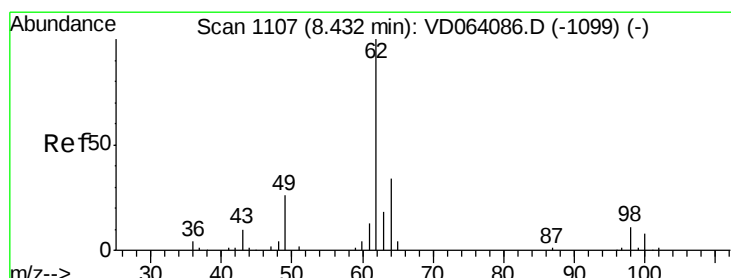
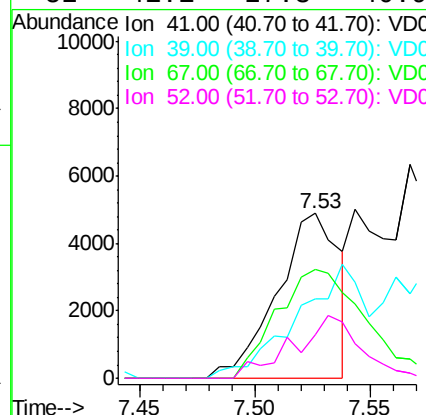
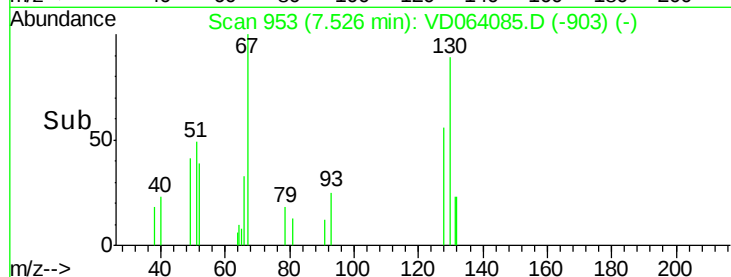
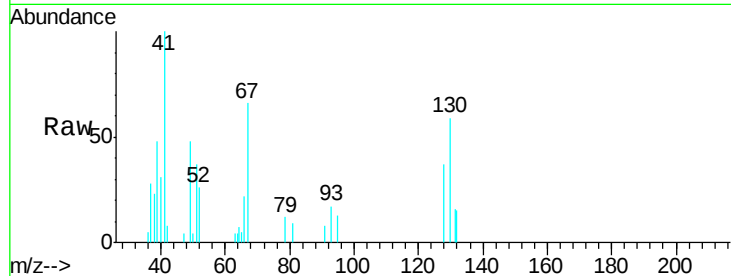
39 74.2 41.0 61.4#

67 93.4 73.4 110.0

52 41.1 27.3 40.9#

Manual Integrations
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#42

1,2-Dichloroethane

Concen: 20.372 ug/l

RT: 8.43 min Scan# 1107

Delta R.T. 0.00 min

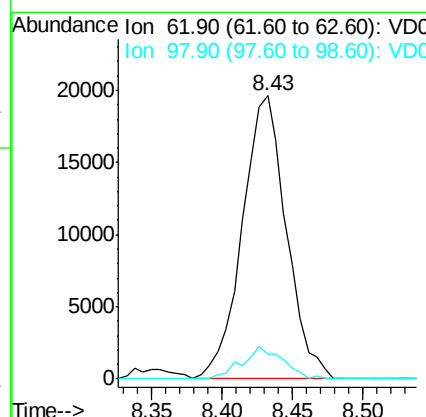
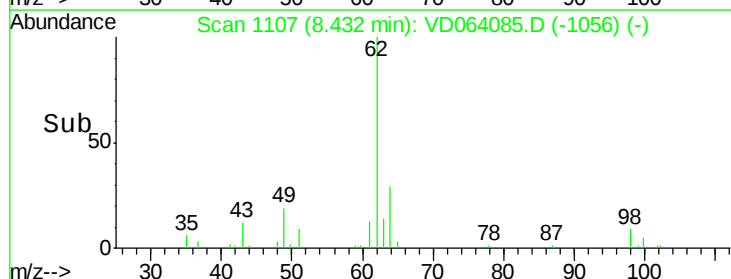
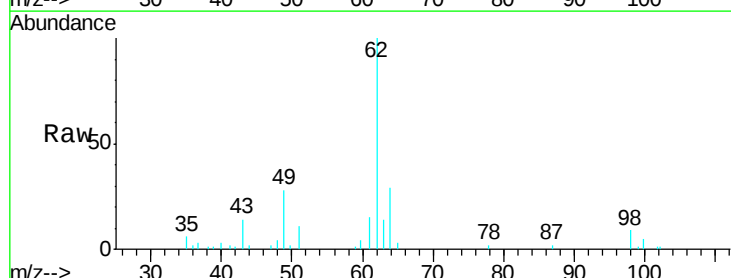
Lab File: VD064085.D

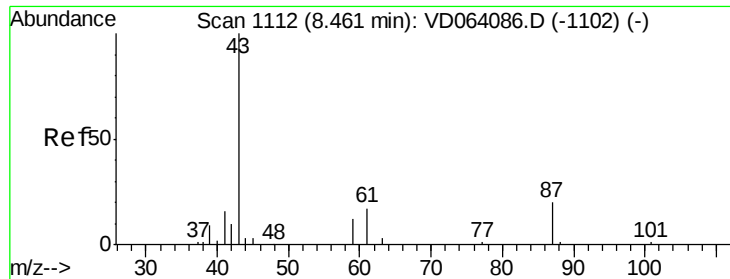
Acq: 29 Oct 2019 13:09

Tgt Ion: 62 Resp: 42910
Ion Ratio Lower Upper

62 100

98 10.5 0.0 21.0





#43

Isopropyl Acetate

Concen: 19.017 ug/l

RT: 8.46 min Scan# 1111

Delta R.T. -0.01 min

Lab File: VD064085.D

Acq: 29 Oct 2019 13:09

Instrument :

MSVOA_D

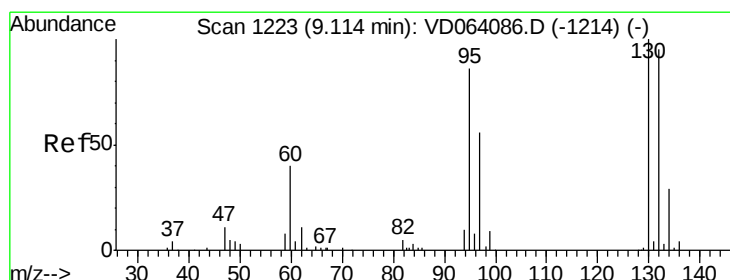
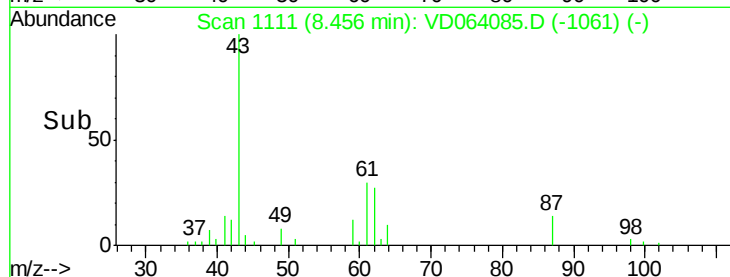
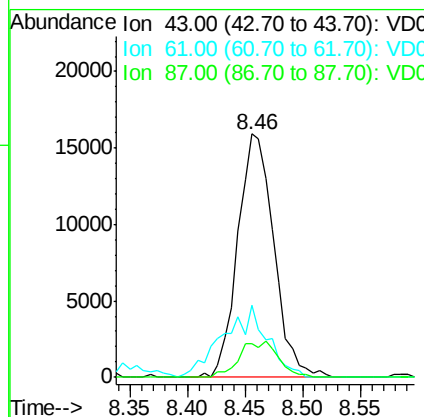
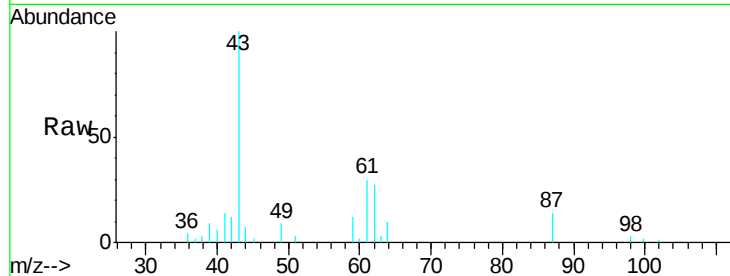
ClientSampleId :

VSTDIC020

Tgt Ion:	43	Resp:	34591
Ion	Ratio	Lower	Upper
43	100		
61	36.3	25.8	38.8
87	16.1	13.0	19.4

Manual Integrations
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#44

Trichloroethene

Concen: 20.434 ug/l

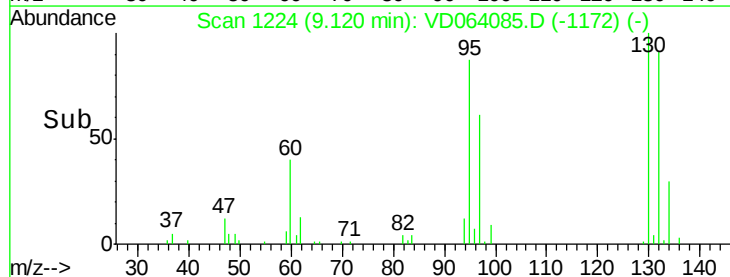
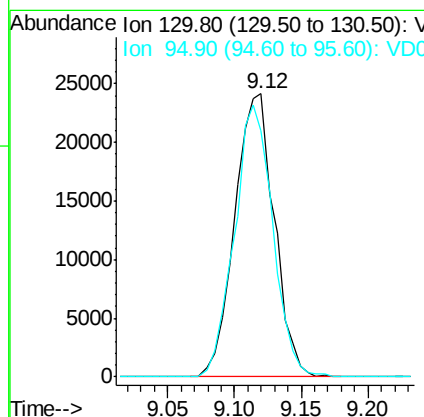
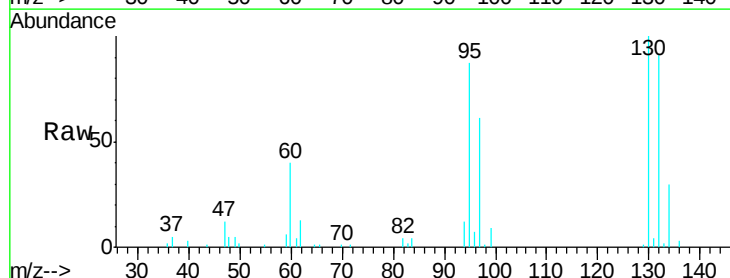
RT: 9.12 min Scan# 1224

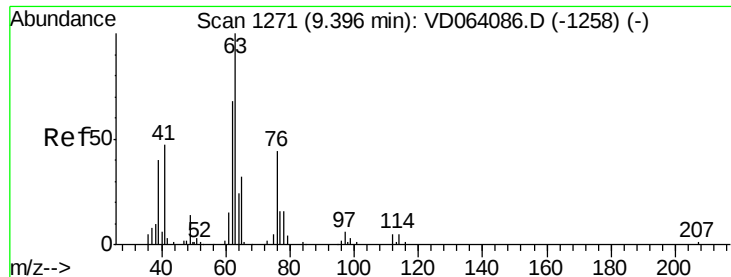
Delta R.T. 0.01 min

Lab File: VD064085.D

Acq: 29 Oct 2019 13:09

Tgt Ion:	130	Resp:	49385
Ion	Ratio	Lower	Upper
130	100		
95	87.1	0.0	173.0





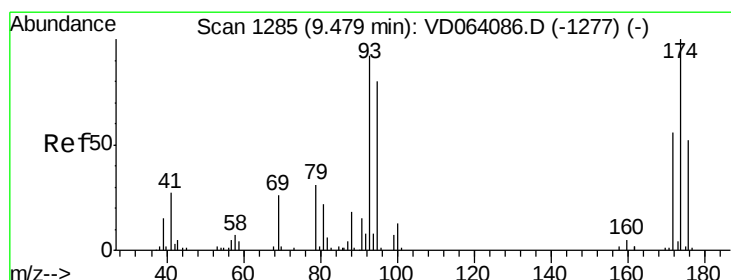
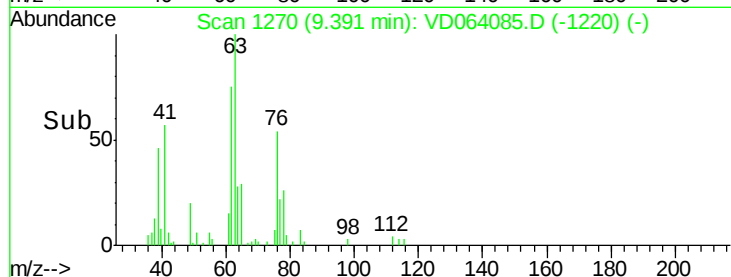
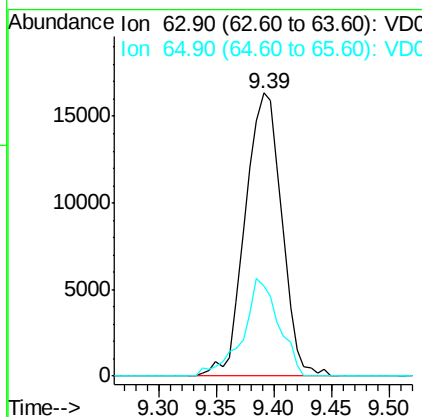
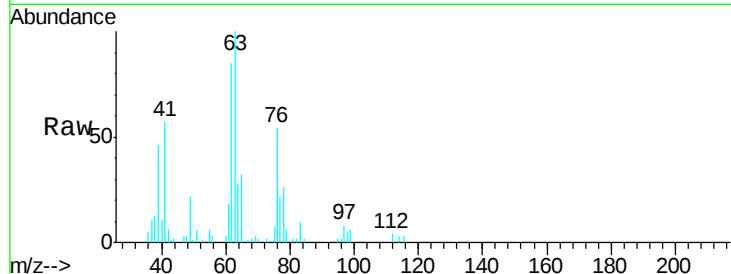
#45
 1,2-Dichloropropane
 Concen: 19.566 ug/l
 RT: 9.39 min Scan# 1270
 Delta R.T. -0.01 min
 Lab File: VD064085.D
 Acq: 29 Oct 2019 13:09

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC020

Tgt Ion: 63 Resp: 36157
 Ion Ratio Lower Upper
 63 100
 65 32.0 25.8 38.8

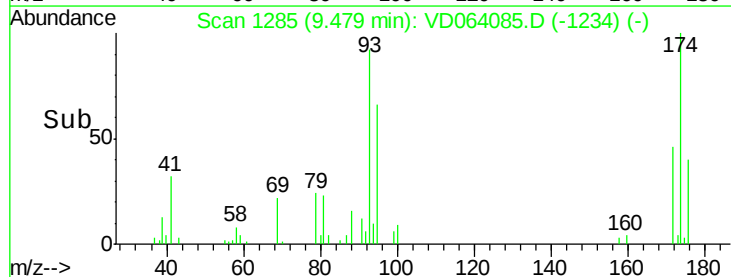
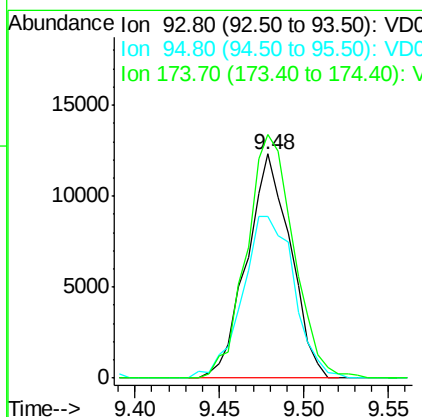
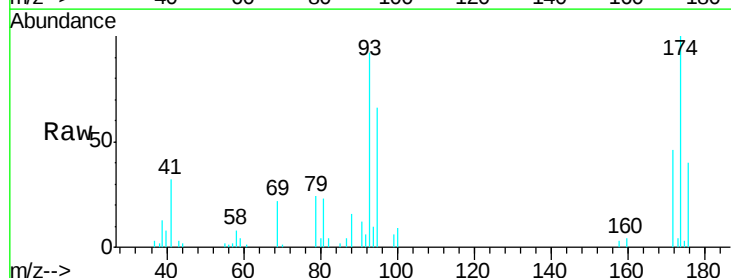
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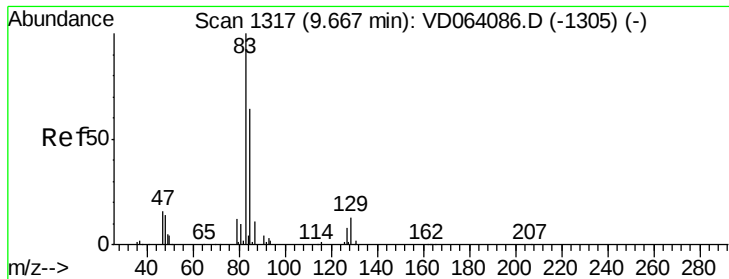
MMDadoda
 10/30/2019 10:58:09 AM



#46
 Dibromomethane
 Concen: 19.944 ug/l
 RT: 9.48 min Scan# 1285
 Delta R.T. 0.00 min
 Lab File: VD064085.D
 Acq: 29 Oct 2019 13:09

Tgt Ion: 93 Resp: 22197
 Ion Ratio Lower Upper
 93 100
 95 85.1 67.4 101.2
 174 117.0 86.4 129.6





#47

Bromodichloromethane

Concen: 20.010 ug/l

RT: 9.67 min Scan# 1317

Delta R.T. 0.00 min

Lab File: VD064085.D

Acq: 29 Oct 2019 13:09

Instrument :

MSVOA_D

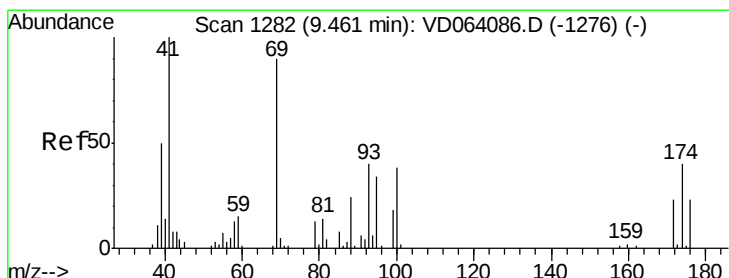
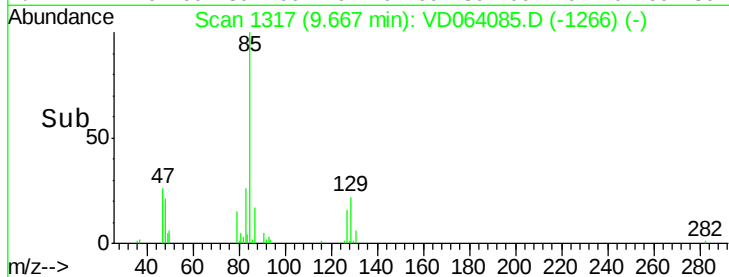
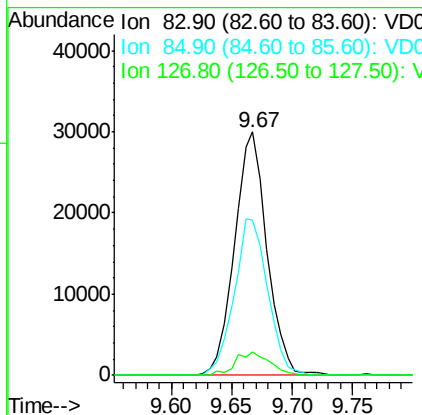
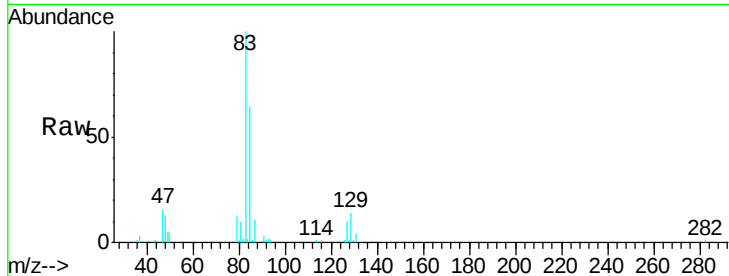
ClientSampleId :

VSTDIC020

Tgt Ion:	83	Resp:	56183
Ion	Ratio	Lower	Upper
83	100		
85	63.8	51.4	77.0
127	9.9	6.7	10.1

Manual Integrations
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#48

Methyl methacrylate

Concen: 19.893 ug/l

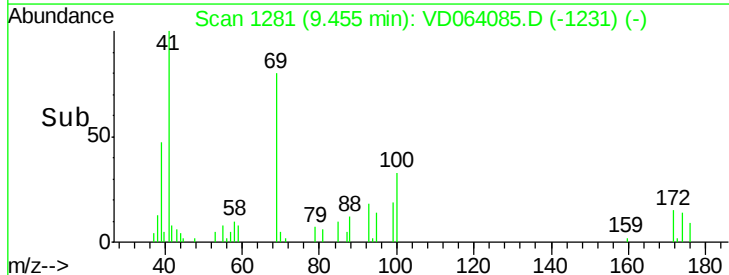
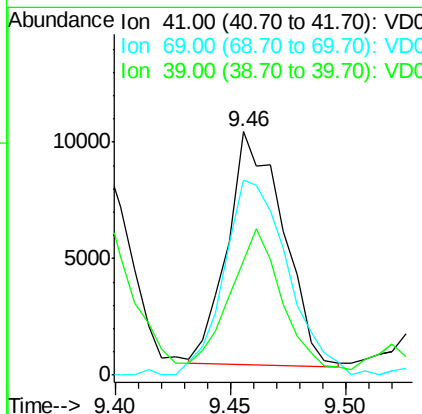
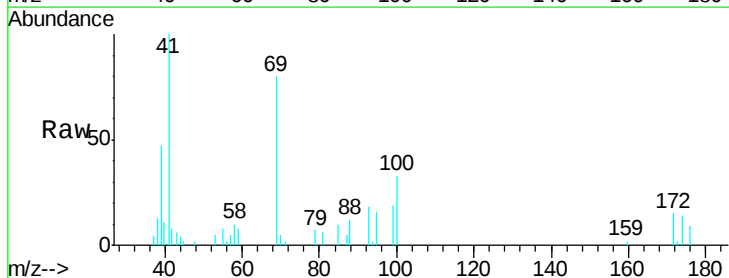
RT: 9.46 min Scan# 1281

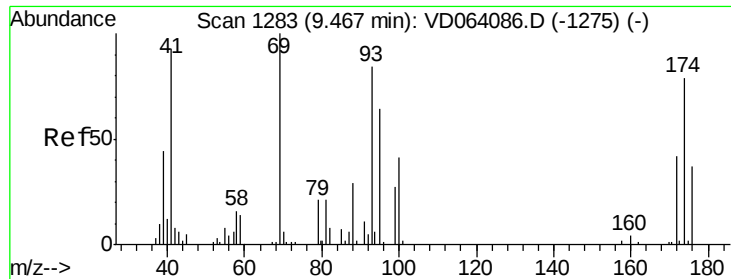
Delta R.T. -0.01 min

Lab File: VD064085.D

Acq: 29 Oct 2019 13:09

Tgt Ion:	41	Resp:	16733
Ion	Ratio	Lower	Upper
41	100		
69	96.9	82.6	124.0
39	61.6	47.0	70.4





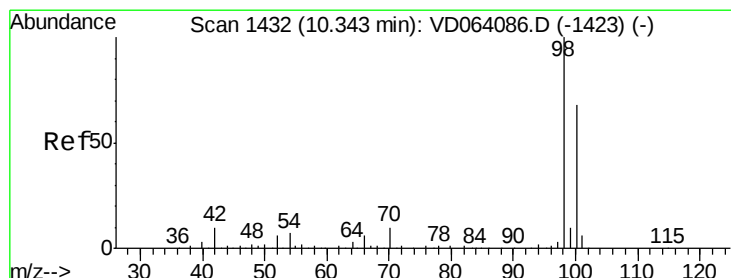
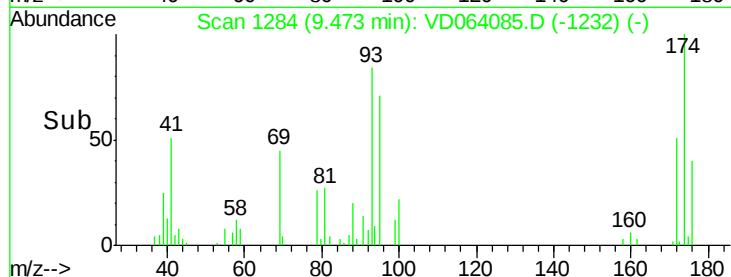
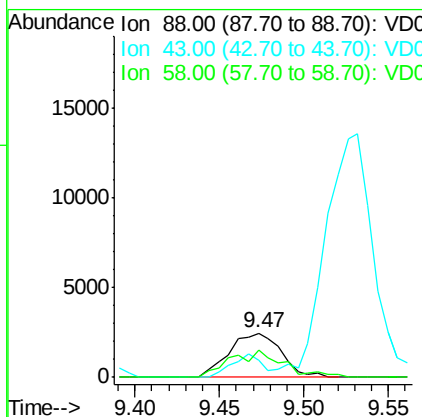
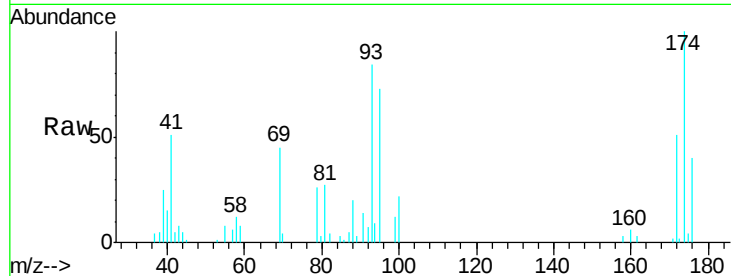
#49
1,4-Dioxane
Concen: 413.033 ug/l
RT: 9.47 min Scan# 1284
Delta R.T. 0.01 min
Lab File: VD064085.D
Acq: 29 Oct 2019 13:09

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tgt Ion: 88 Resp: 5262
Ion Ratio Lower Upper
88 100
43 33.4 13.4 20.0#
58 27.5 46.7 70.1#

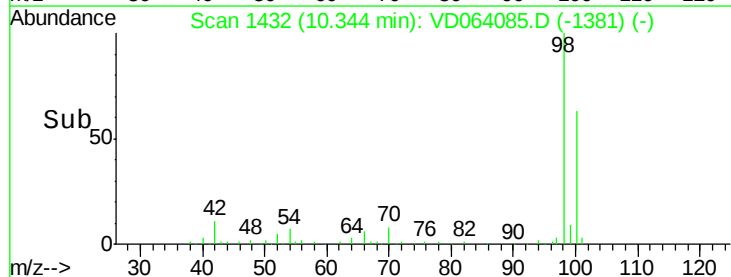
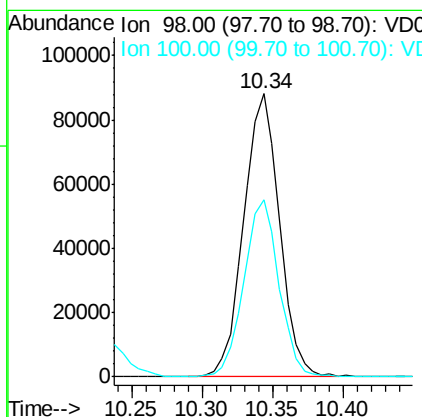
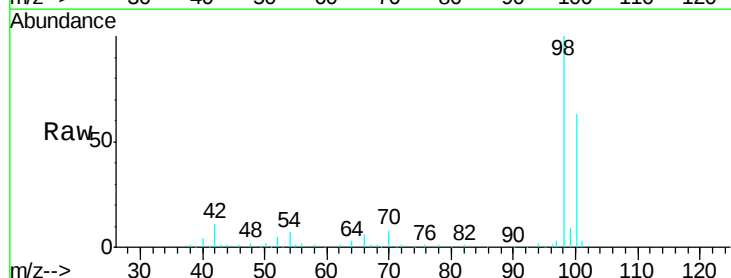
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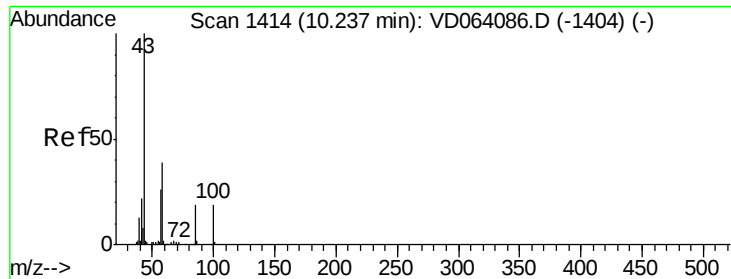
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#50
Toluene-d8
Concen: 20.453 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. 0.00 min
Lab File: VD064085.D
Acq: 29 Oct 2019 13:09

Tgt Ion: 98 Resp: 157039
Ion Ratio Lower Upper
98 100
100 61.3 53.4 80.0





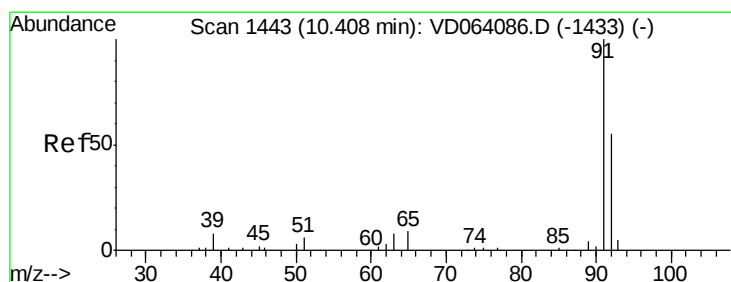
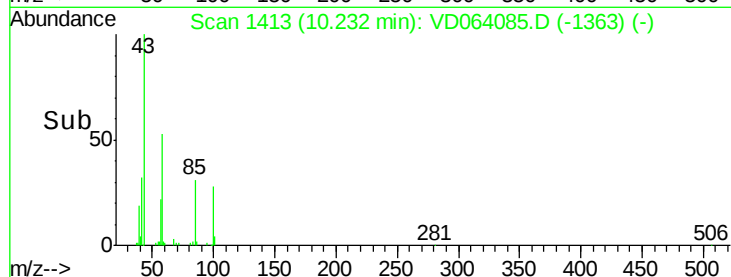
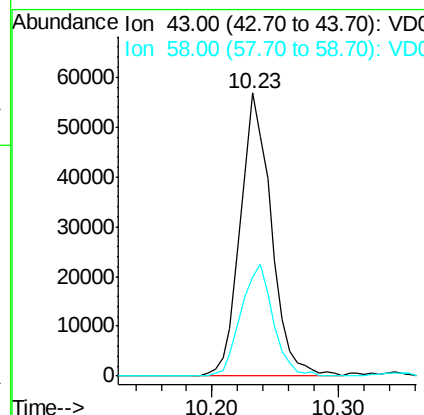
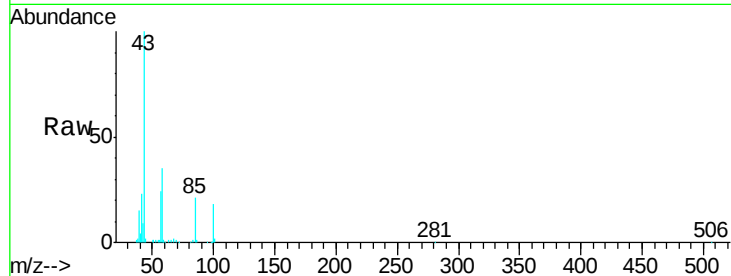
#51
 4-Methyl-2-Pentanone
 Concen: 97.375 ug/l
 RT: 10.23 min Scan# 1413
 Delta R.T. -0.01 min
 Lab File: VD064085.D
 Acq: 29 Oct 2019 13:09

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC020

Tgt Ion: 43 Resp: 96425
 Ion Ratio Lower Upper
 43 100
 58 40.9 33.0 49.4

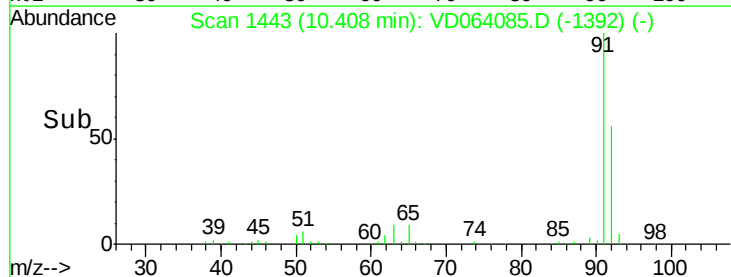
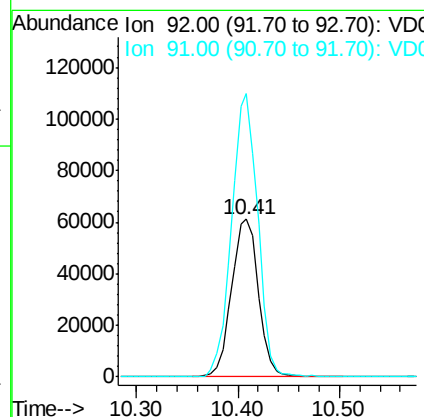
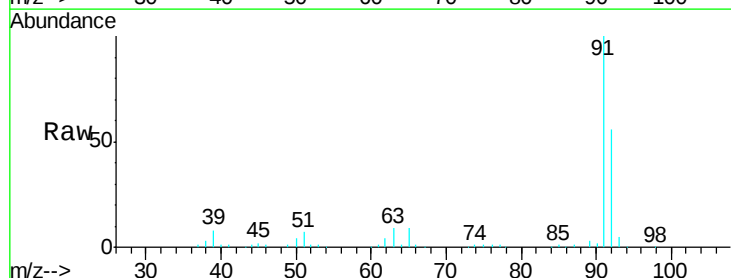
Manual Integrations
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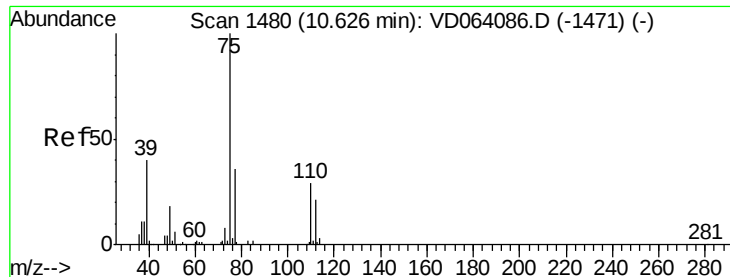
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#52
 Toluene
 Concen: 20.145 ug/l
 RT: 10.41 min Scan# 1443
 Delta R.T. 0.00 min
 Lab File: VD064085.D
 Acq: 29 Oct 2019 13:09

Tgt Ion: 92 Resp: 112575
 Ion Ratio Lower Upper
 92 100
 91 174.0 140.7 211.1





#53

t-1,3-Dichloropropene

Concen: 19.531 ug/l

RT: 10.63 min Scan# 1480

Delta R.T. 0.00 min

Lab File: VD064085.D

Acq: 29 Oct 2019 13:09

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

Tgt Ion: 75 Resp: 51191

Ion Ratio Lower Upper

75 100

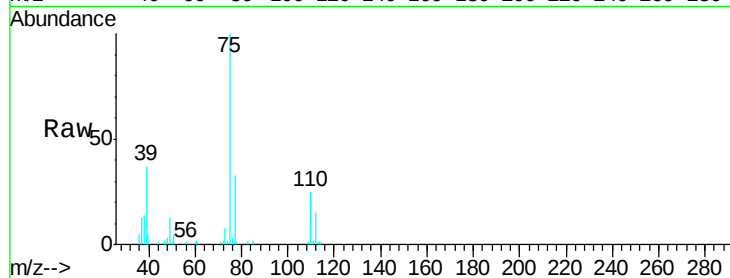
77 32.6 28.7 43.1

Manual Integrations

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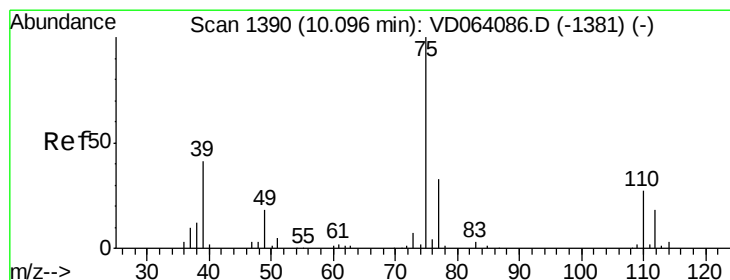
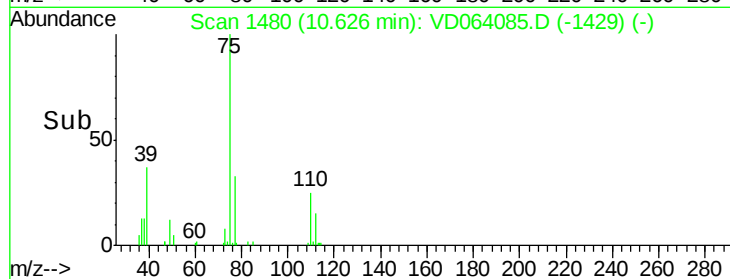
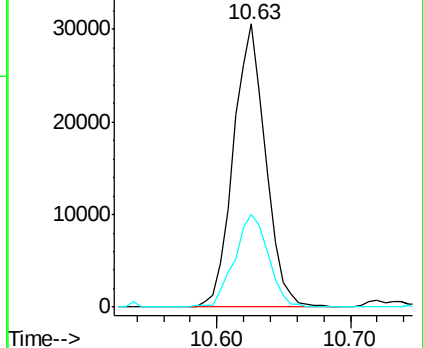
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Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 76.90 (76.60 to 77.60): VDC



#54

cis-1,3-Dichloropropene

Concen: 19.877 ug/l

RT: 10.09 min Scan# 1389

Delta R.T. -0.01 min

Lab File: VD064085.D

Acq: 29 Oct 2019 13:09

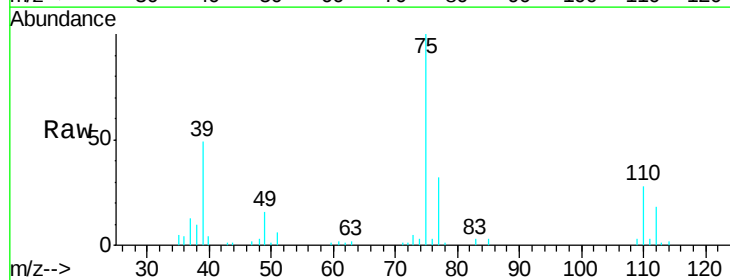
Tgt Ion: 75 Resp: 61292

Ion Ratio Lower Upper

75 100

77 32.0 26.8 40.2

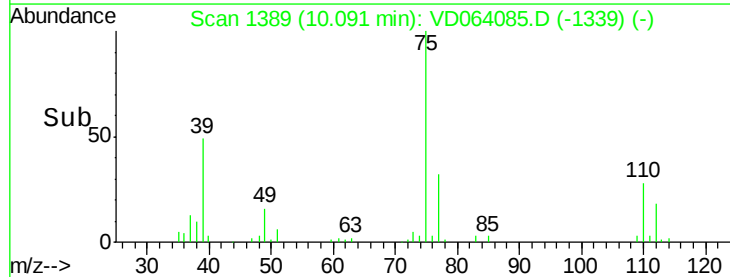
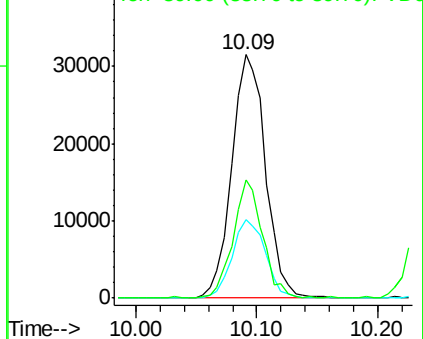
39 48.8 32.7 49.1

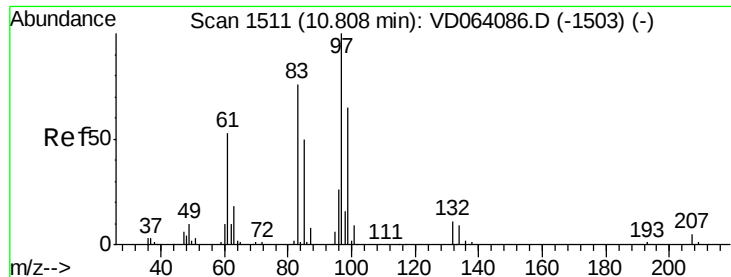


Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 76.90 (76.60 to 77.60): VDC

Ion 39.00 (38.70 to 39.70): VDC





#55

1,1,2-Trichloroethane

Concen: 19.952 ug/l

RT: 10.80 min Scan# 1510

Delta R.T. -0.01 min

Lab File: VD064085.D

Acq: 29 Oct 2019 13:09

Instrument :

MSVOA_D

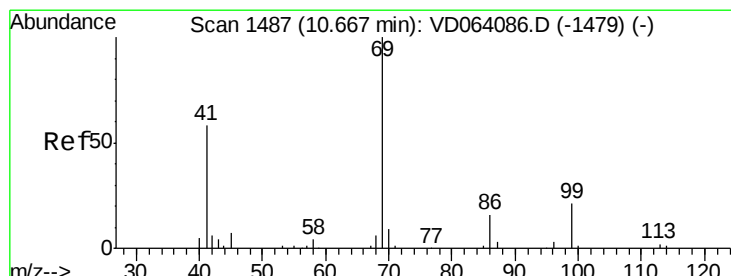
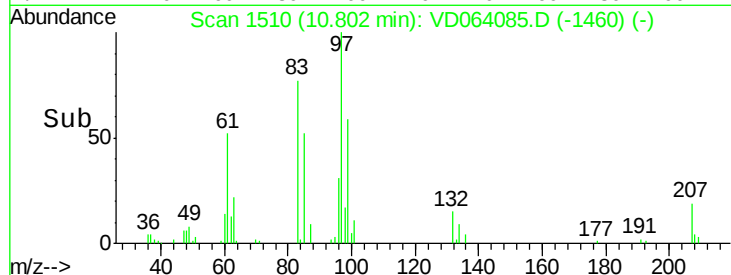
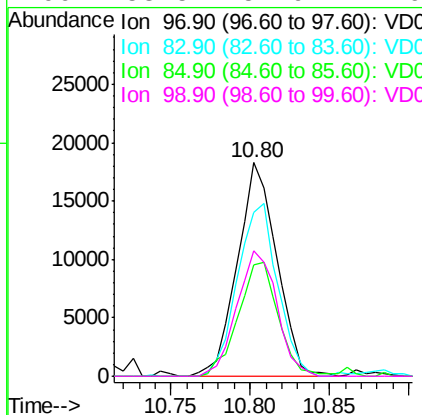
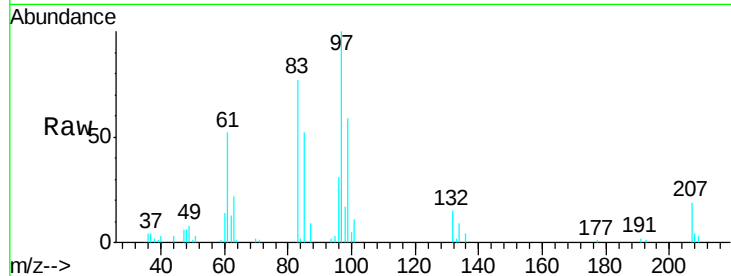
ClientSampleId :

VSTDIC020

Tgt Ion:	97	Resp:	31483
Ion	Ratio	Lower	Upper
97	100		
83	76.5	60.9	91.3
85	52.1	40.2	60.2
99	58.5	51.9	77.9

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#56

Ethyl methacrylate

Concen: 19.695 ug/l

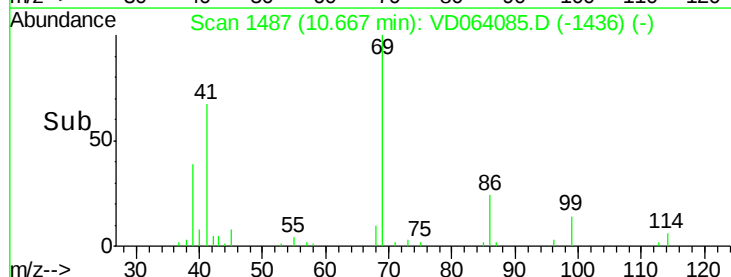
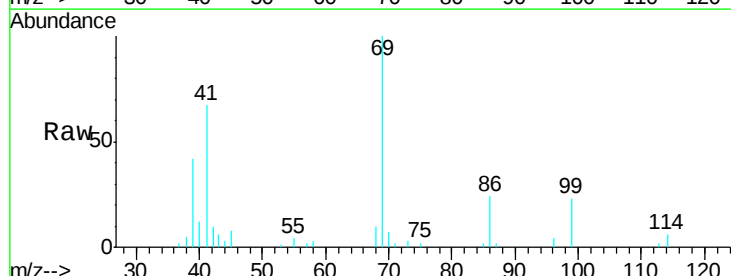
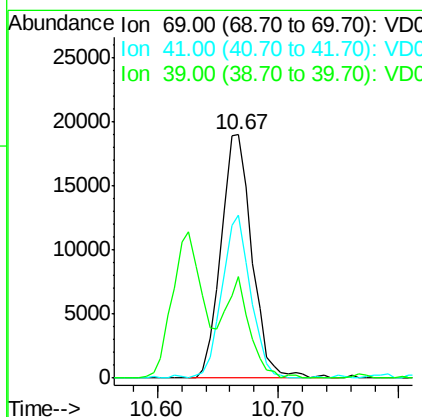
RT: 10.67 min Scan# 1487

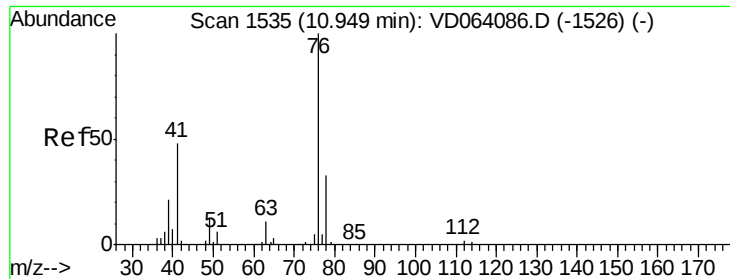
Delta R.T. 0.00 min

Lab File: VD064085.D

Acq: 29 Oct 2019 13:09

Tgt Ion:	69	Resp:	33746
Ion	Ratio	Lower	Upper
69	100		
41	62.1	46.9	70.3
39	32.2	27.3	40.9





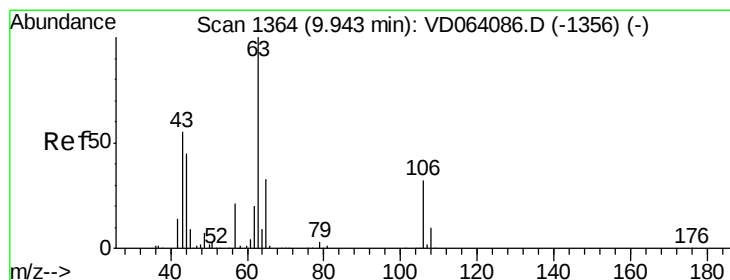
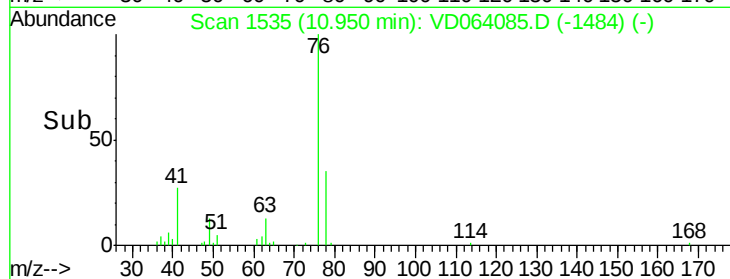
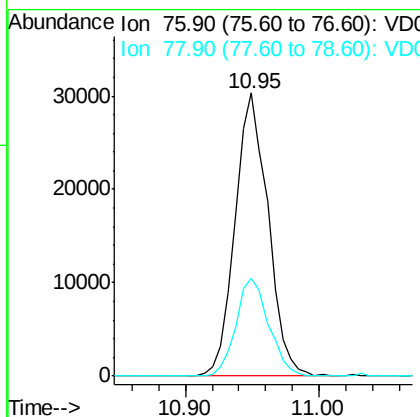
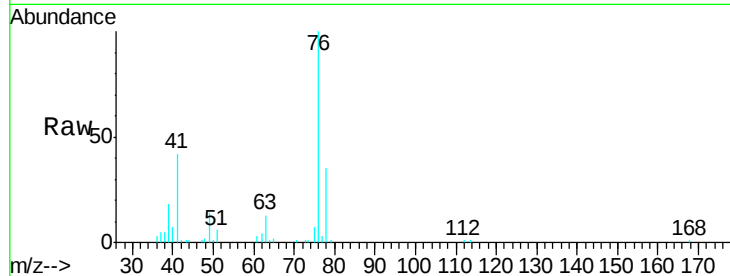
#57
 1,3-Dichloropropane
 Concen: 19.894 ug/l
 RT: 10.95 min Scan# 1535
 Delta R.T. 0.00 min
 Lab File: VD064085.D
 Acq: 29 Oct 2019 13:09

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC020

Tgt Ion: 76 Resp: 51917
 Ion Ratio Lower Upper
 76 100
 78 34.1 25.9 38.9

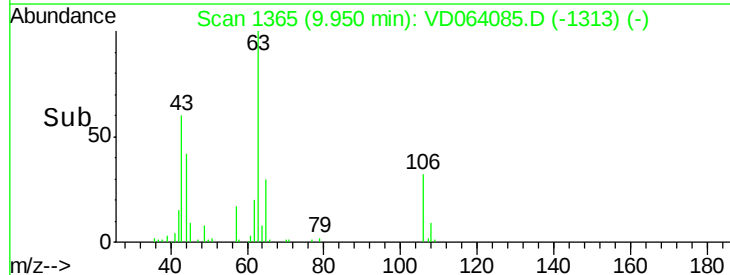
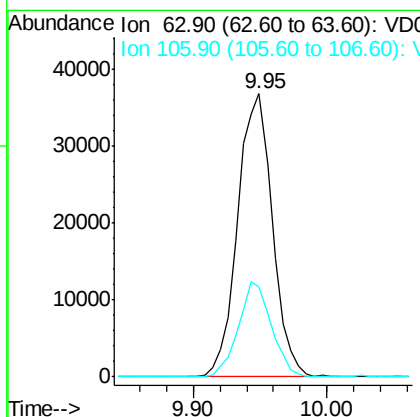
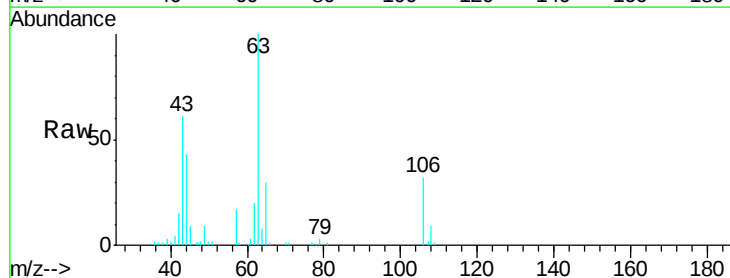
Manual Integrations
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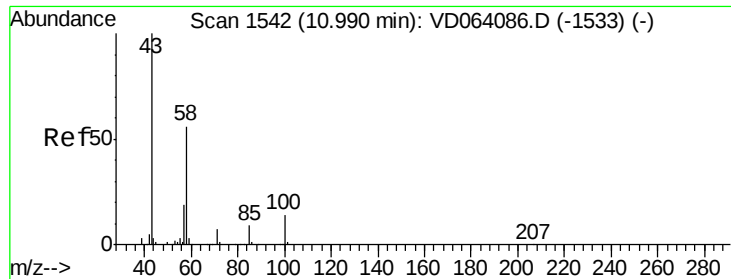
MMDadoda
 10/30/2019 10:58:09 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 95.665 ug/l
 RT: 9.95 min Scan# 1365
 Delta R.T. 0.01 min
 Lab File: VD064085.D
 Acq: 29 Oct 2019 13:09

Tgt Ion: 63 Resp: 66135
 Ion Ratio Lower Upper
 63 100
 106 32.0 25.8 38.8





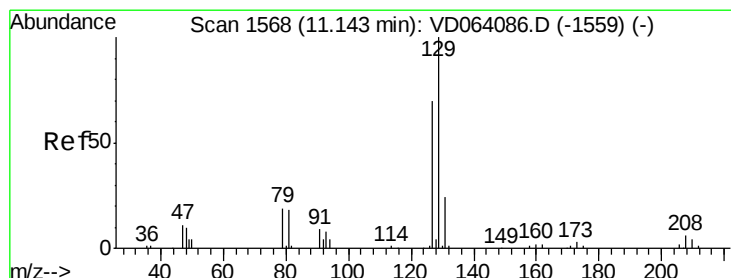
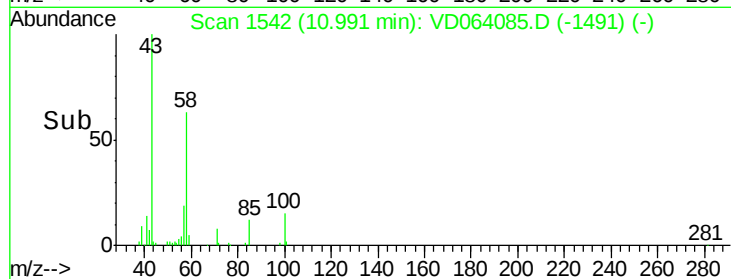
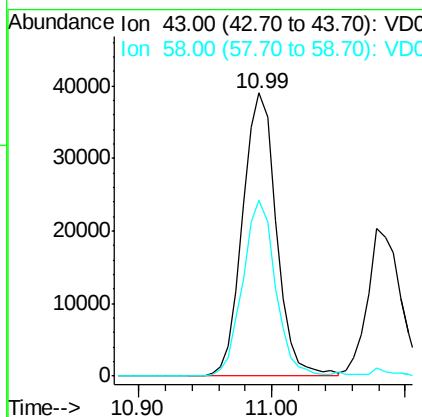
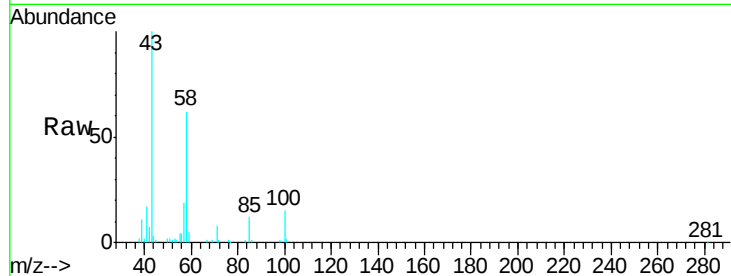
#59
2-Hexanone
Concen: 96.371 ug/l
RT: 10.99 min Scan# 1542
Delta R.T. 0.00 min
Lab File: VD064085.D
Acq: 29 Oct 2019 13:09

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tgt Ion: 43 Resp: 68011
Ion Ratio Lower Upper
43 100
58 60.5 29.2 87.6

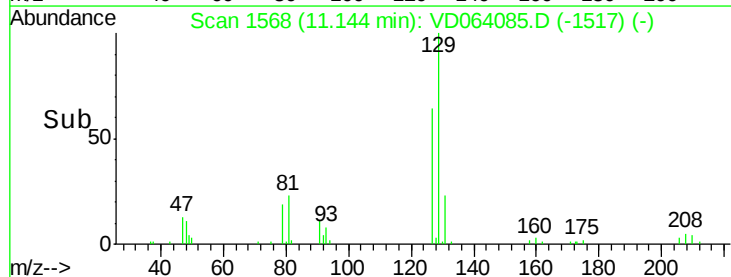
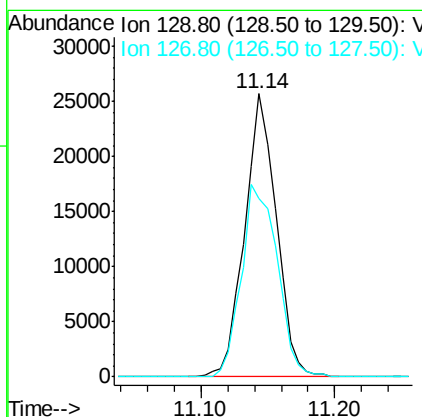
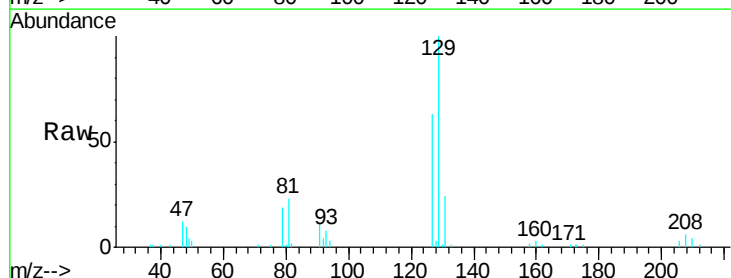
Manual Integrations
APPROVED

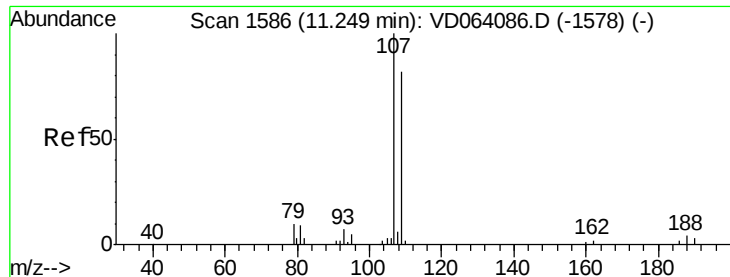
MMDadoda
10/30/2019 10:58:09 AM



#60
Dibromochloromethane
Concen: 19.651 ug/l
RT: 11.14 min Scan# 1568
Delta R.T. 0.00 min
Lab File: VD064085.D
Acq: 29 Oct 2019 13:09

Tgt Ion: 129 Resp: 42088
Ion Ratio Lower Upper
129 100
127 77.2 38.3 114.8





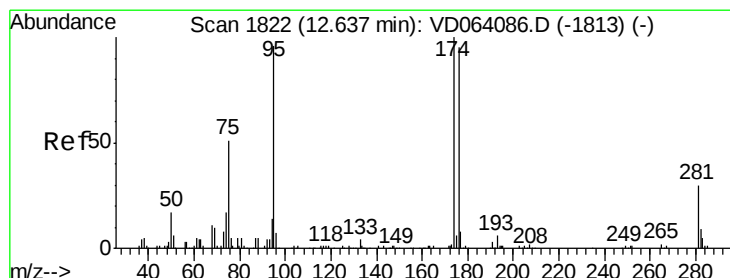
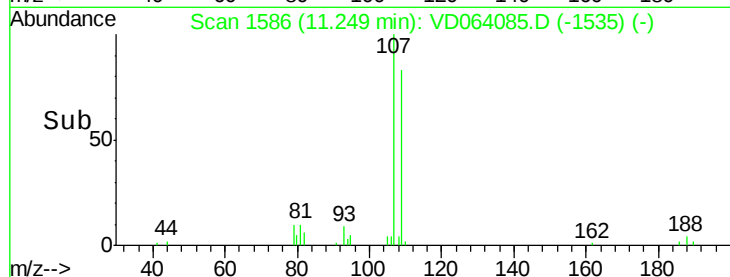
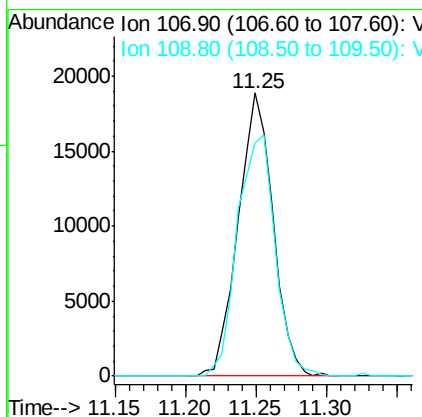
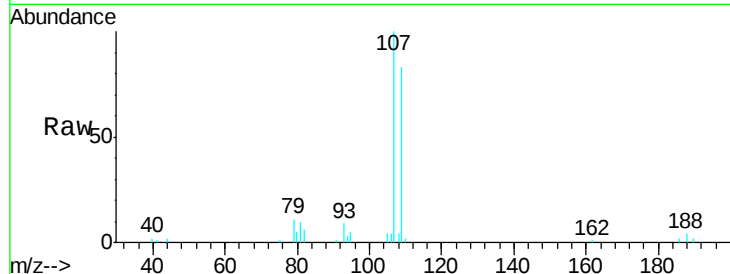
#61
 1,2-Dibromoethane
 Concen: 20.657 ug/l
 RT: 11.25 min Scan# 1586
 Delta R.T. 0.00 min
 Lab File: VD064085.D
 Acq: 29 Oct 2019 13:09

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC020

Tgt Ion: 107 Resp: 32601
 Ion Ratio Lower Upper
 107 100
 109 92.9 73.0 109.4

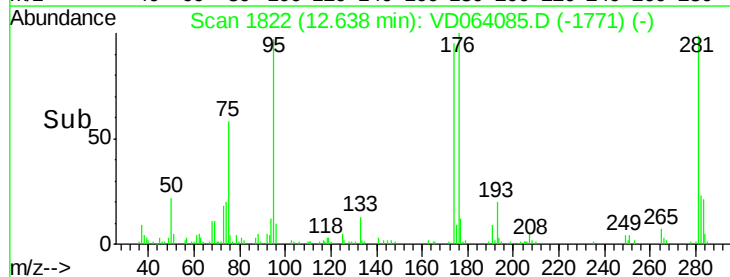
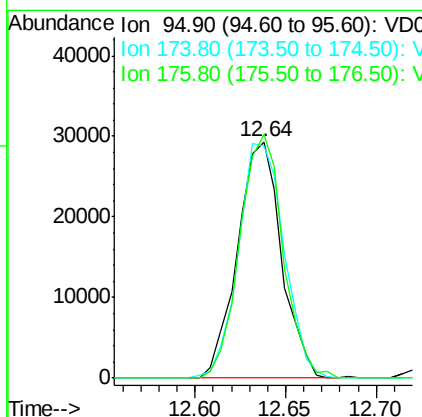
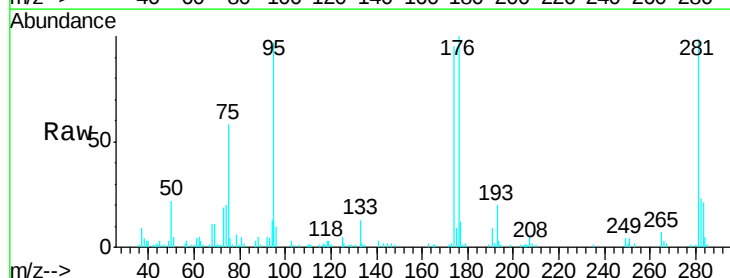
Manual Integrations
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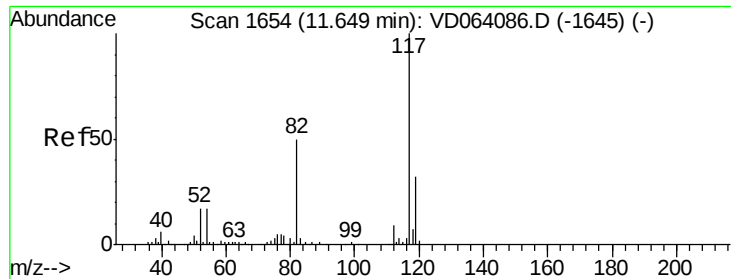
MMDadoda
 10/30/2019 10:58:09 AM



#62
 4-Bromofluorobenzene
 Concen: 19.446 ug/l
 RT: 12.64 min Scan# 1822
 Delta R.T. 0.00 min
 Lab File: VD064085.D
 Acq: 29 Oct 2019 13:09

Tgt Ion: 95 Resp: 49499
 Ion Ratio Lower Upper
 95 100
 174 102.7 0.0 201.6
 176 101.3 0.0 192.6





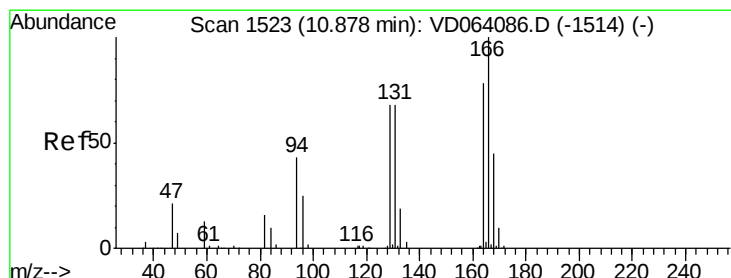
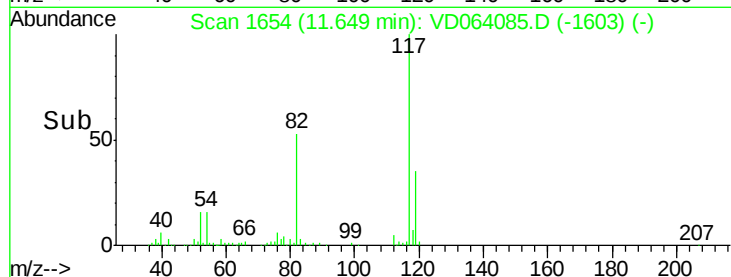
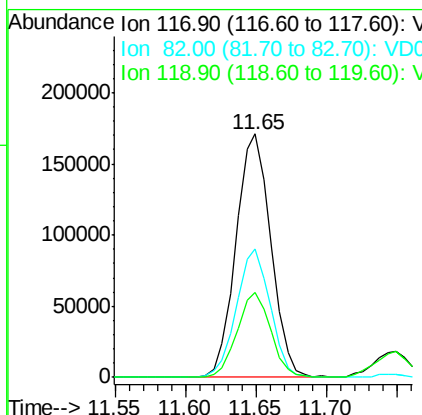
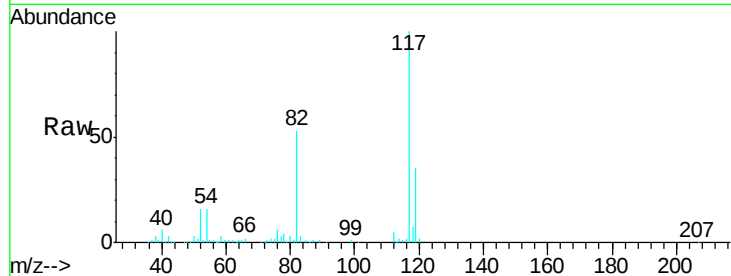
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. 0.00 min
Lab File: VD064085.D
Acq: 29 Oct 2019 13:09

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	295626		
82	52.8	40.2	60.4	
119	34.7	26.0	39.0	

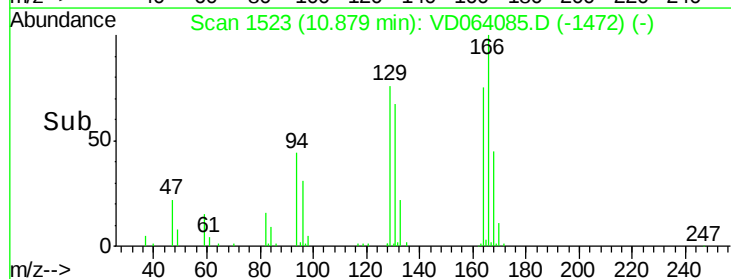
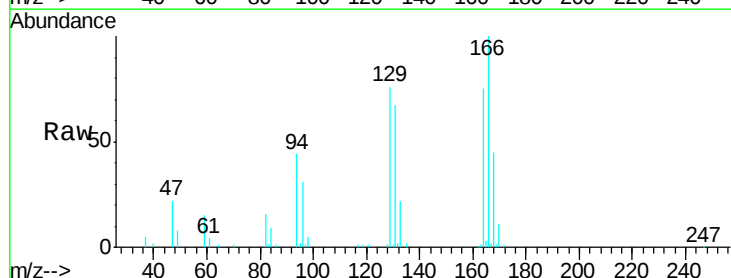
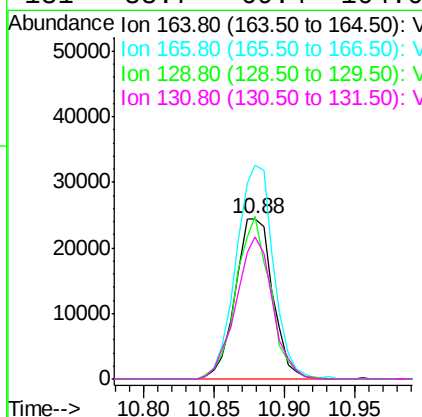
Manual Integrations
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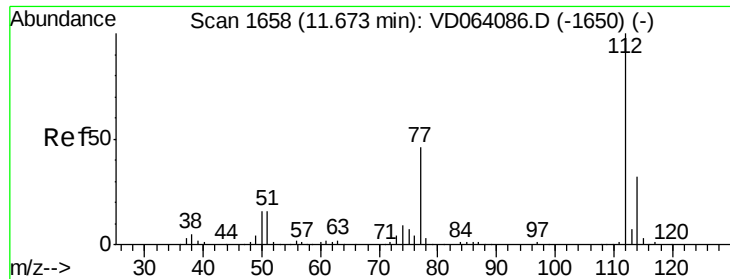
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#64
Tetrachloroethene
Concen: 21.233 ug/l
RT: 10.88 min Scan# 1523
Delta R.T. 0.00 min
Lab File: VD064085.D
Acq: 29 Oct 2019 13:09

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	45095		
166	133.0	102.7	154.1	
129	101.1	69.8	104.6	
131	88.7	69.4	104.0	





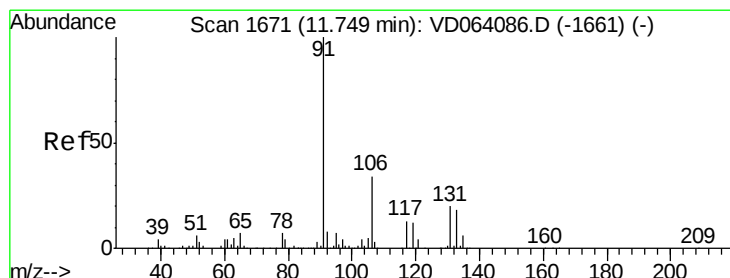
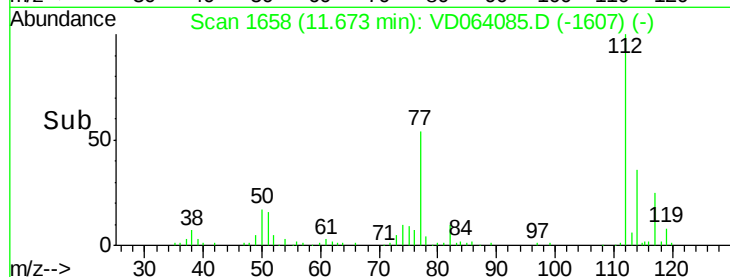
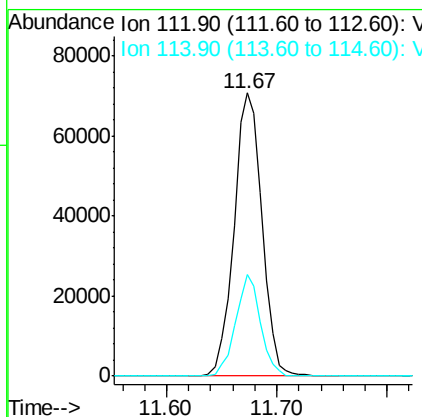
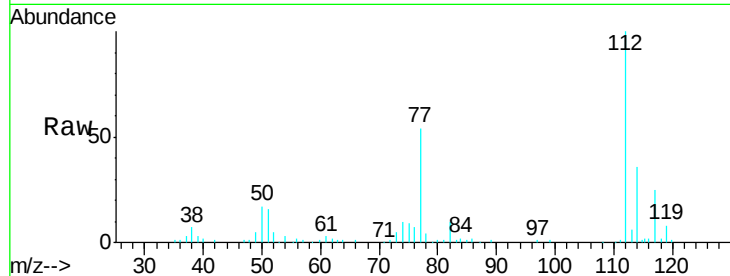
#65
Chlorobenzene
Concen: 20.605 ug/l
RT: 11.67 min Scan# 1658
Delta R.T. 0.00 min
Lab File: VD064085.D
Acq: 29 Oct 2019 13:09

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tgt Ion:112 Resp: 125863
Ion Ratio Lower Upper
112 100
114 35.9 25.4 38.0

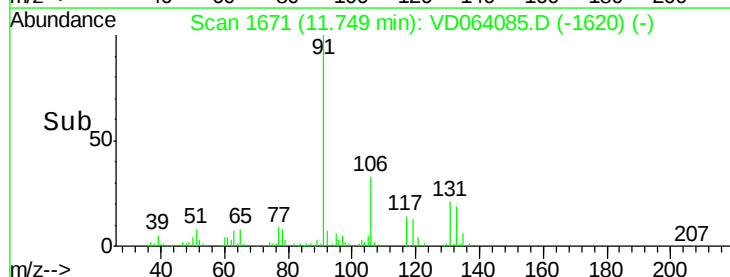
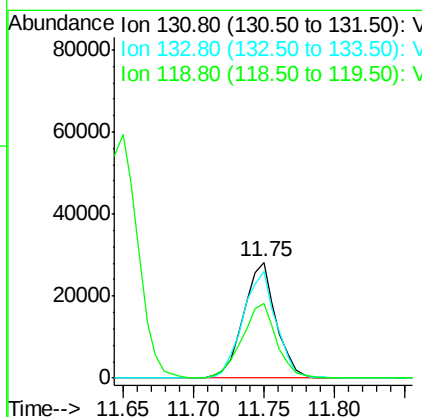
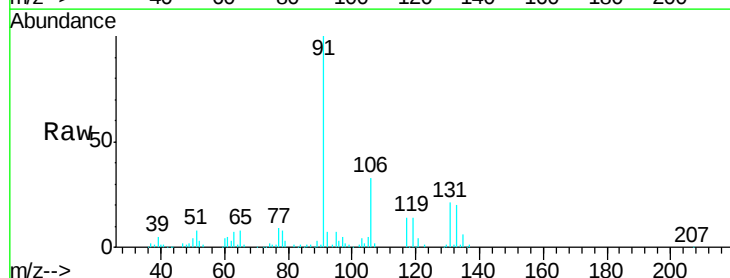
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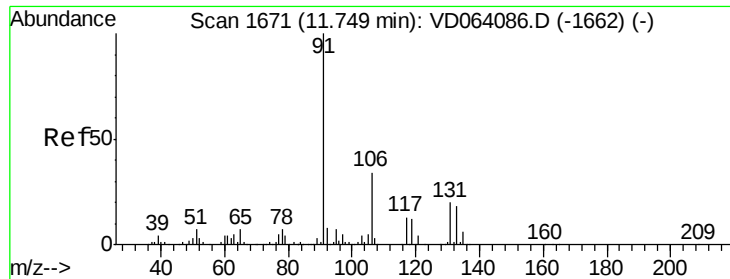
MMDadoda
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#66
1,1,1,2-Tetrachloroethane
Concen: 19.910 ug/l
RT: 11.75 min Scan# 1671
Delta R.T. 0.00 min
Lab File: VD064085.D
Acq: 29 Oct 2019 13:09

Tgt Ion:131 Resp: 45506
Ion Ratio Lower Upper
131 100
133 94.3 47.6 142.9
119 68.5 31.4 94.3





#67

Ethyl Benzene

Concen: 20.371 ug/l

RT: 11.75 min Scan# 1671

Delta R.T. 0.00 min

Lab File: VD064085.D

Acq: 29 Oct 2019 13:09

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

Tgt Ion: 91 Resp: 221322

Ion Ratio Lower Upper

91 100

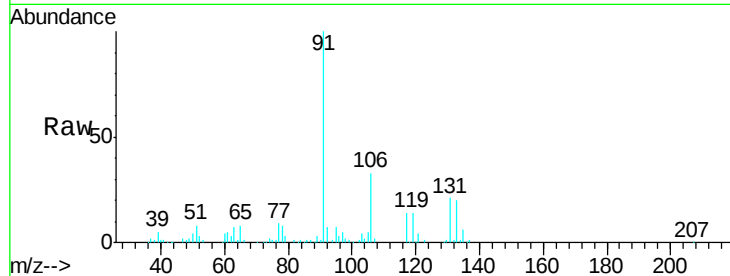
106 32.6 27.0 40.6

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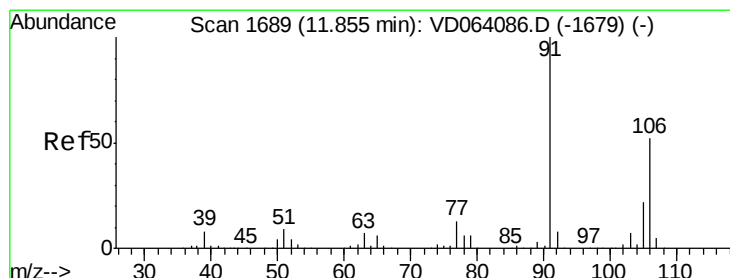
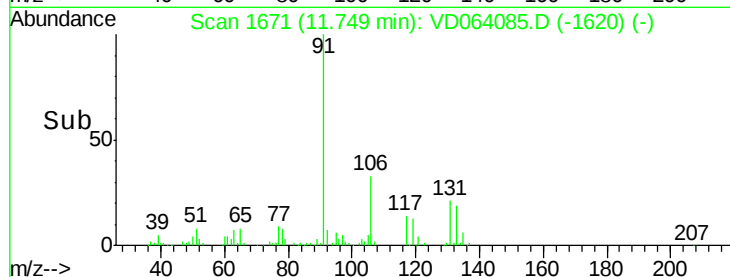
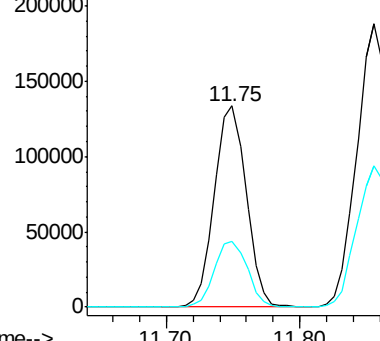
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Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 106.00 (105.70 to 106.70): VDC



#68

m/p-Xylenes

Concen: 41.380 ug/l

RT: 11.86 min Scan# 1689

Delta R.T. 0.00 min

Lab File: VD064085.D

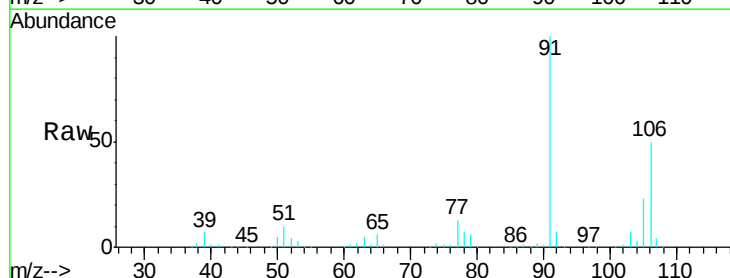
Acq: 29 Oct 2019 13:09

Tgt Ion: 106 Resp: 180830

Ion Ratio Lower Upper

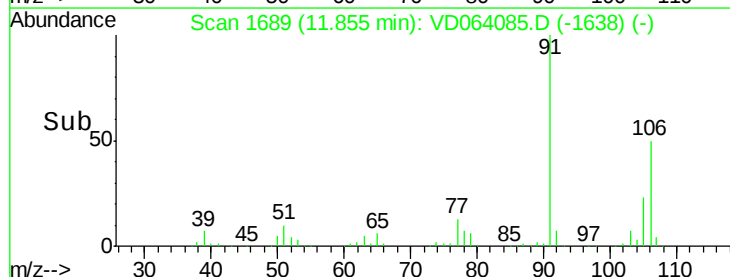
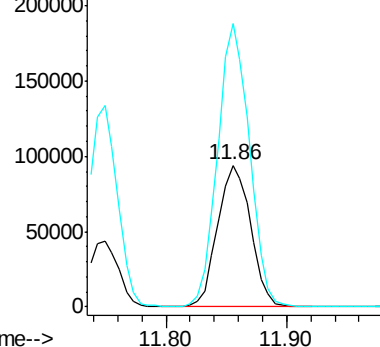
106 100

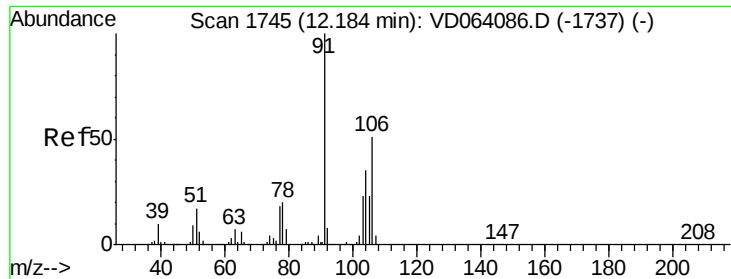
91 192.6 154.0 231.0



Abundance Ion 106.00 (105.70 to 106.70): VDC

Ion 91.00 (90.70 to 91.70): VDC





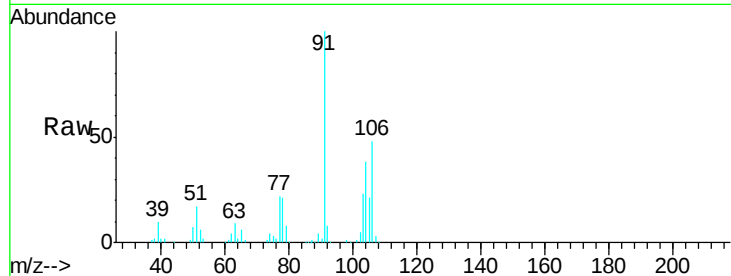
#69
o-Xylene
Concen: 20.466 ug/l
RT: 12.18 min Scan# 1745
Delta R.T. 0.00 min
Lab File: VD064085.D
Acq: 29 Oct 2019 13:09

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

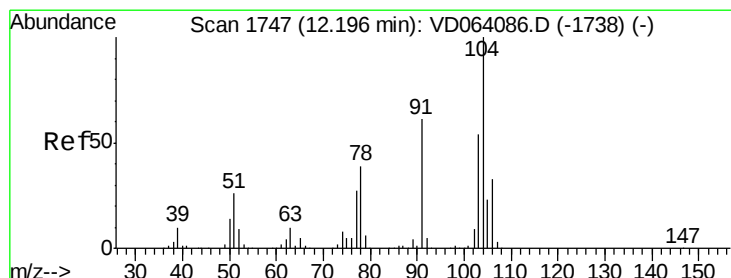
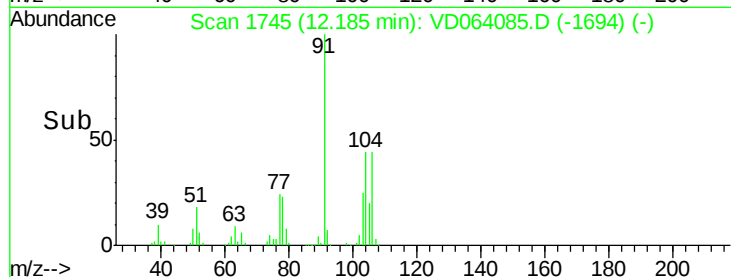
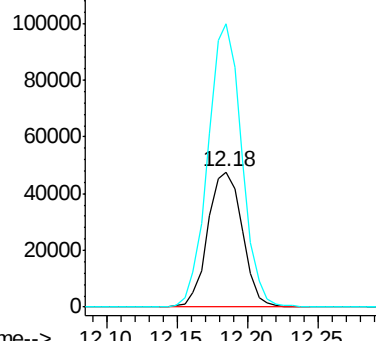
Tgt Ion:106 Resp: 81623
Ion Ratio Lower Upper
106 100
91 204.2 100.6 301.9

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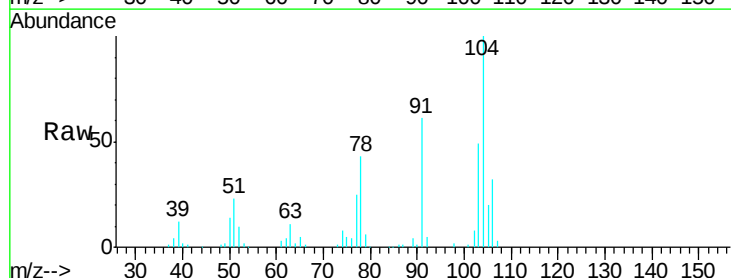


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): V

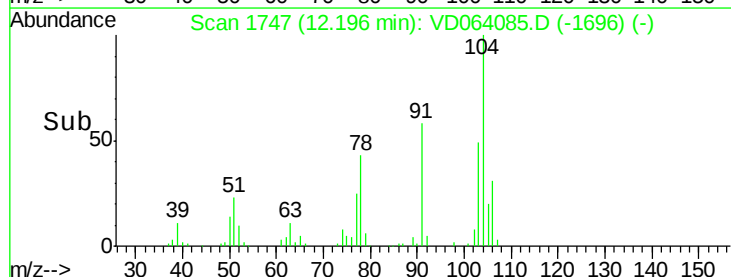
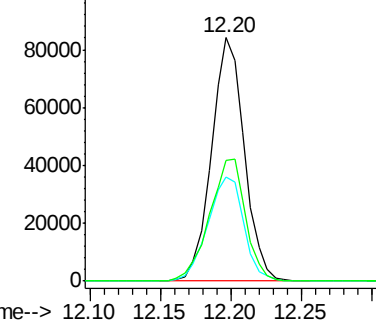


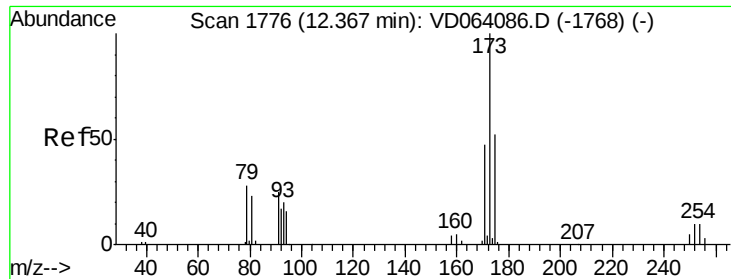
#70
Styrene
Concen: 19.891 ug/l
RT: 12.20 min Scan# 1747
Delta R.T. 0.00 min
Lab File: VD064085.D
Acq: 29 Oct 2019 13:09

Tgt Ion:104 Resp: 136822
Ion Ratio Lower Upper
104 100
78 47.0 34.6 51.8
103 54.8 44.2 66.2



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): V
Ion 103.00 (102.70 to 103.70): V





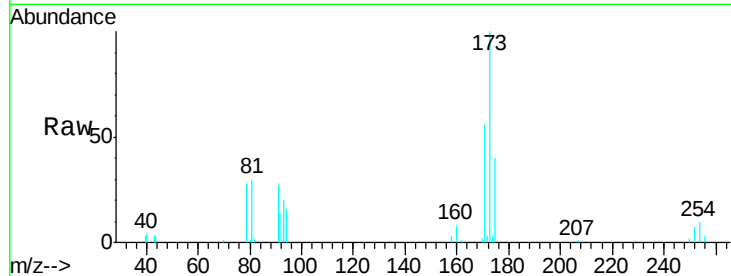
#71
Bromoform
Concen: 20.404 ug/l
RT: 12.36 min Scan# 1775
Delta R.T. -0.01 min
Lab File: VD064085.D
Acq: 29 Oct 2019 13:09

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tgt Ion	Ratio	Resp	Lower	Upper
173	100	24906		
175	48.9	24.3	72.9	
254	0.0	0.0	0.0	

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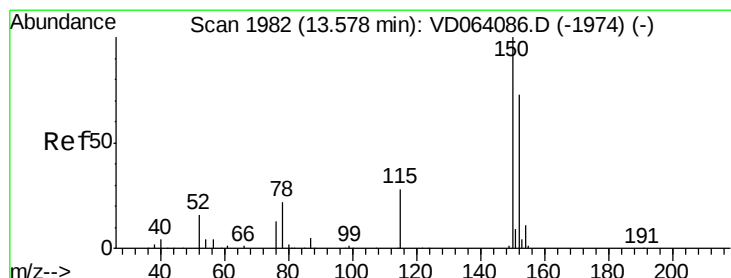
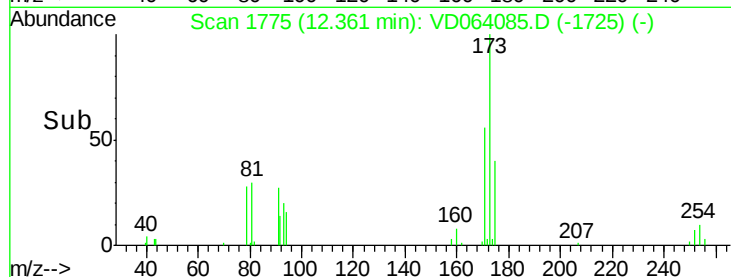
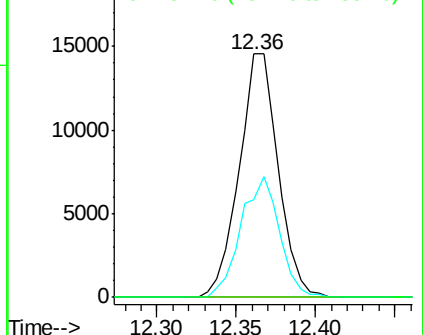


Abundance

Ion 172.70 (172.40 to 173.40): V

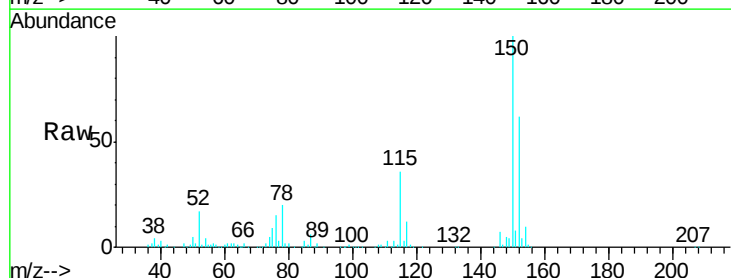
Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1982
Delta R.T. 0.00 min
Lab File: VD064085.D
Acq: 29 Oct 2019 13:09

Tgt Ion	Ratio	Resp	Lower	Upper
152	100	161129		
115	52.5	26.2	78.6	
150	161.9	0.0	338.8	

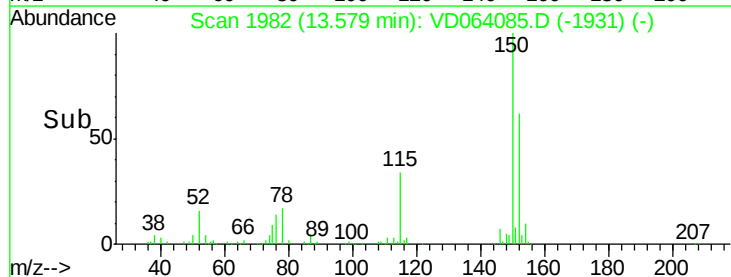
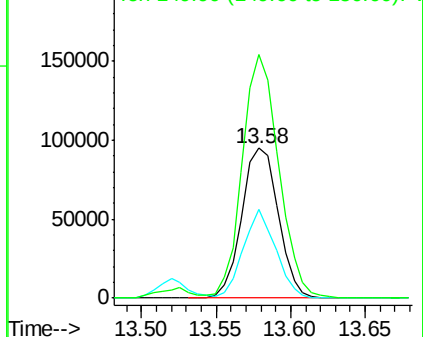


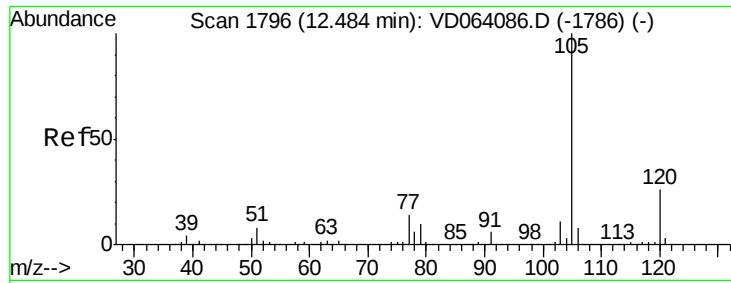
Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 20.809 ug/l

RT: 12.48 min Scan# 1795

Delta R.T. -0.01 min

Lab File: VD064085.D

Acq: 29 Oct 2019 13:09

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

Tgt Ion: 105 Resp: 232998

Ion Ratio Lower Upper

105 100

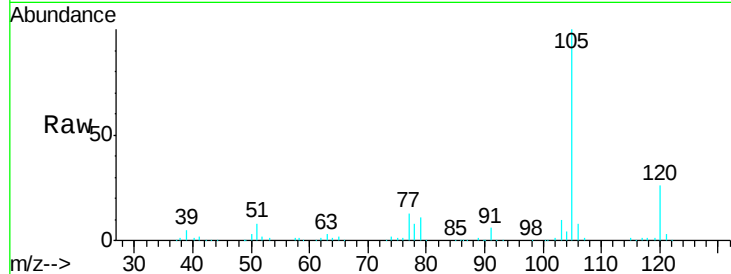
120 26.8 13.3 39.9

Manual Integrations

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

150000

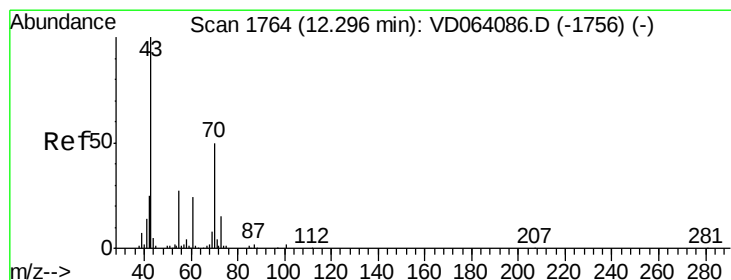
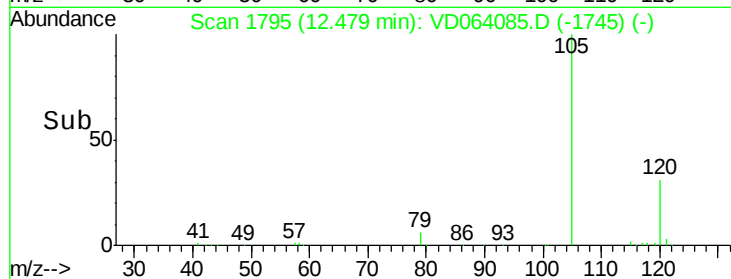
100000

50000

0

12.40 12.45 12.50 12.55

Time-->



#74

N-ethyl acetate

Concen: 19.274 ug/l

RT: 12.30 min Scan# 1764

Delta R.T. 0.00 min

Lab File: VD064085.D

Acq: 29 Oct 2019 13:09

Tgt Ion: 43 Resp: 35852

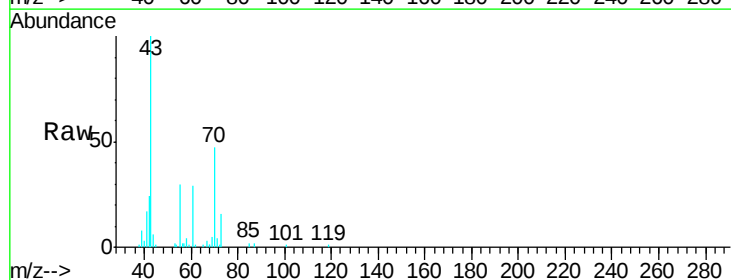
Ion Ratio Lower Upper

43 100

70 46.7 38.6 58.0

55 29.5 20.4 30.6

61 28.0 20.8 31.2



Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V

30000

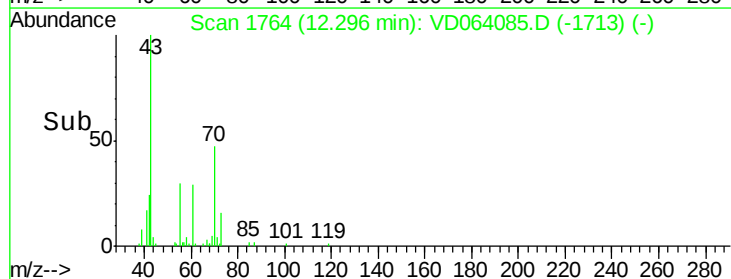
20000

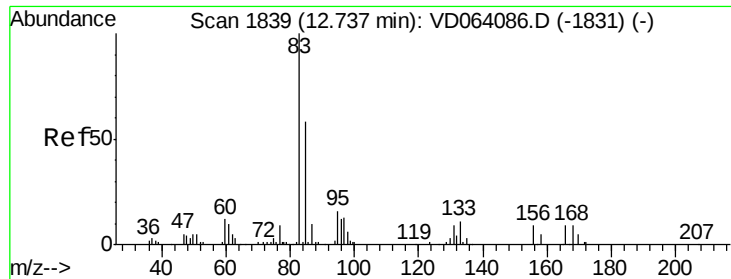
10000

0

12.20 12.30 12.40

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 19.868 ug/l

RT: 12.74 min Scan# 1839

Delta R.T. 0.00 min

Lab File: VD064085.D

Acq: 29 Oct 2019 13:09

Instrument :

MSVOA_D

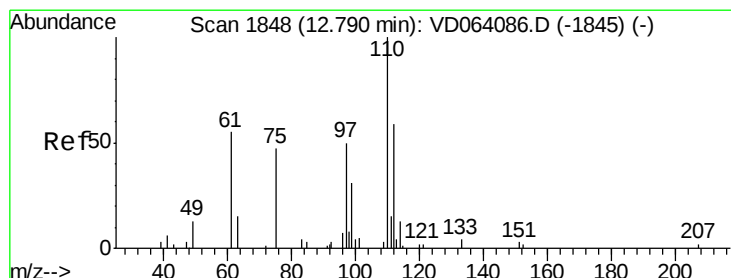
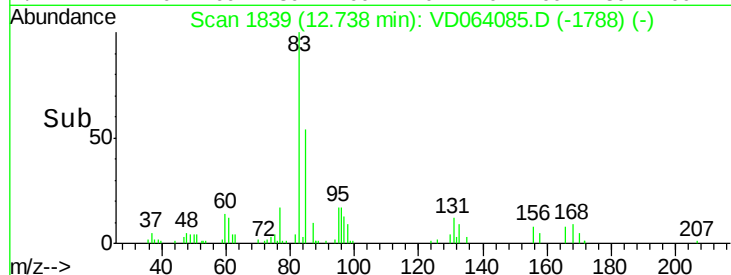
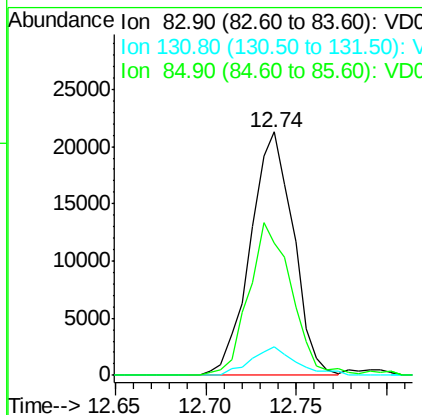
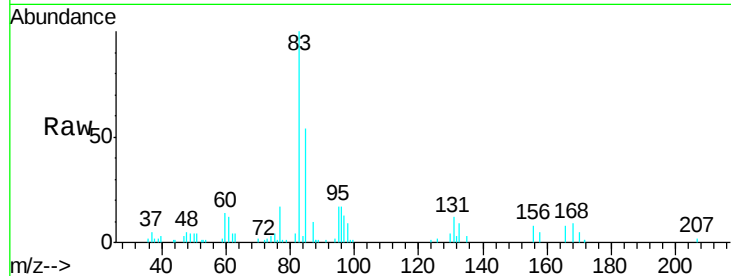
ClientSampleId :

VSTDIC020

Tgt Ion:	83	Resp:	35065
Ion Ratio	Lower	Upper	
83	100		
131	12.4	5.7	17.0
85	62.8	32.1	96.5

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 10.975 ug/l m

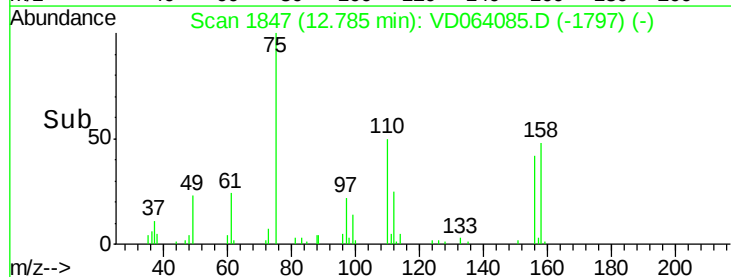
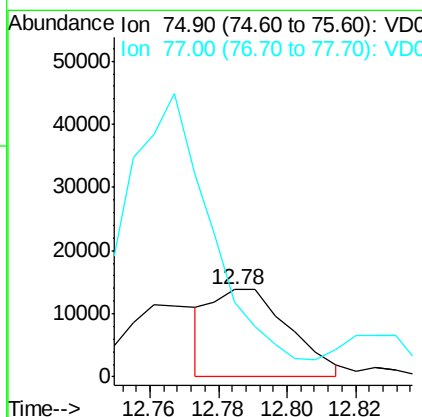
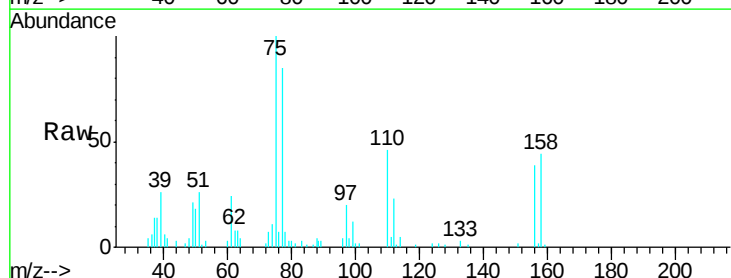
RT: 12.78 min Scan# 1847

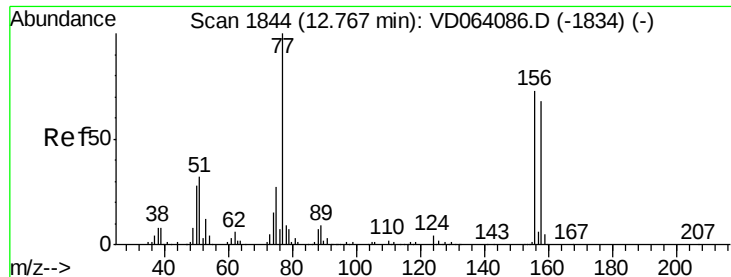
Delta R.T. -0.01 min

Lab File: VD064085.D

Acq: 29 Oct 2019 13:09

Tgt Ion:	75	Resp:	21940
Ion Ratio	Lower	Upper	
75	100		
77	380.3	0.0	0.0#





#77

Bromobenzene

Concen: 19.441 ug/l

RT: 12.76 min Scan# 1843

Delta R.T. -0.01 min

Lab File: VD064085.D

Acq: 29 Oct 2019 13:09

Instrument :

MSVOA_D

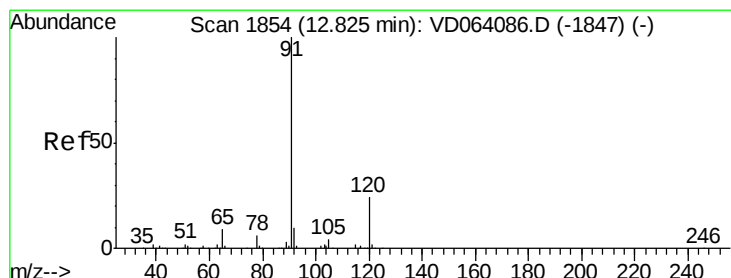
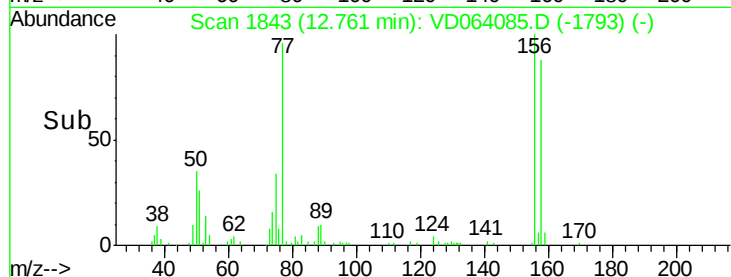
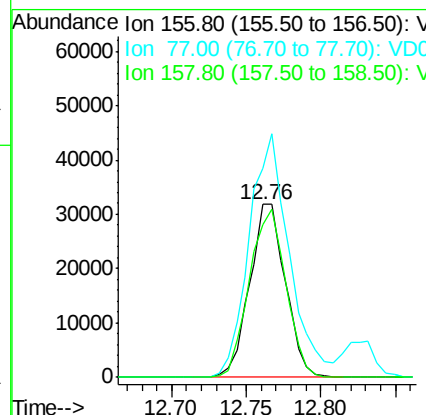
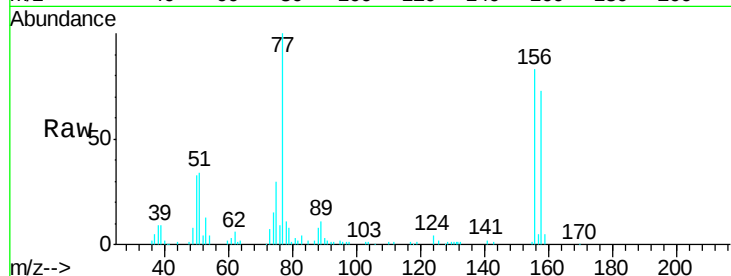
ClientSampleId :

VSTDIC020

Tgt Ion: 156 Resp: 52558
 Ion Ratio Lower Upper
 156 100
 77 158.8 76.0 228.0
 158 99.4 47.6 142.8

Manual Integrations
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#78

n-propylbenzene

Concen: 20.156 ug/l

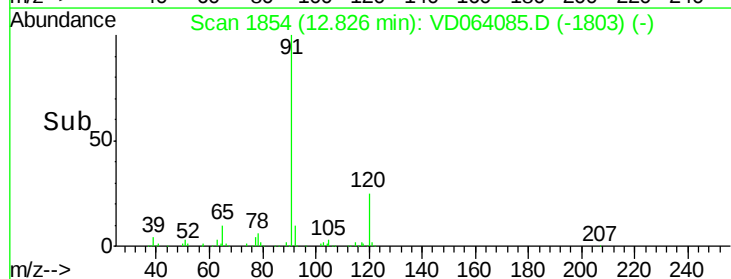
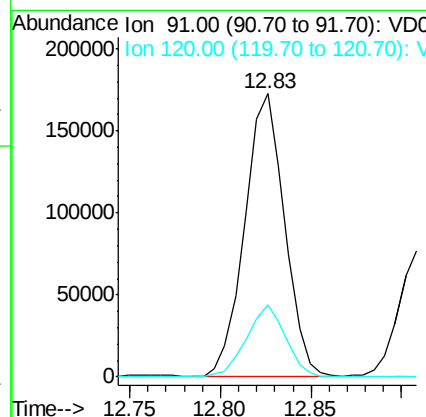
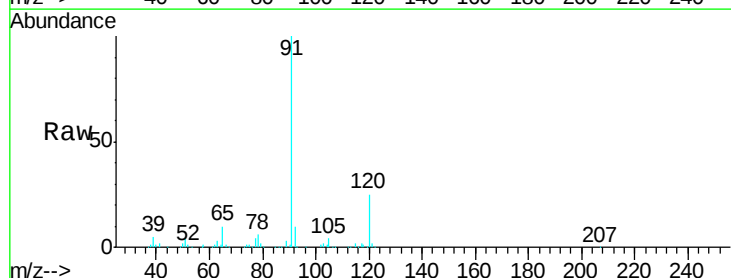
RT: 12.83 min Scan# 1854

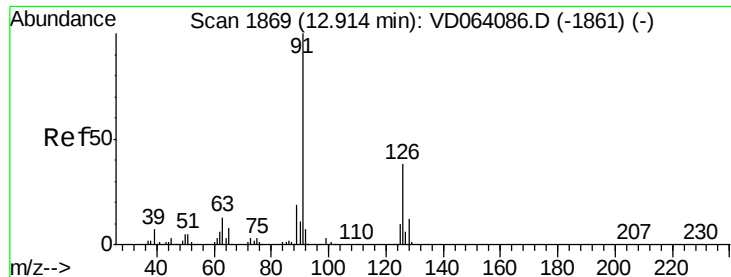
Delta R.T. 0.00 min

Lab File: VD064085.D

Acq: 29 Oct 2019 13:09

Tgt Ion: 91 Resp: 264474
 Ion Ratio Lower Upper
 91 100
 120 24.8 12.1 36.3





#79

2-Chlorotoluene

Concen: 20.013 ug/l

RT: 12.91 min Scan# 1869

Delta R.T. 0.00 min

Lab File: VD064085.D

Acq: 29 Oct 2019 13:09

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

Tgt Ion: 91 Resp: 140767

Ion Ratio Lower Upper

91 100

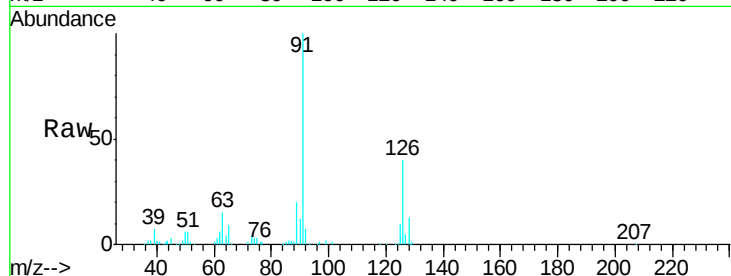
126 39.5 19.1 57.1

Manual Integrations

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Abundance Ion 91.00 (90.70 to 91.70): V

Ion 125.90 (125.60 to 126.60): V

200000

150000

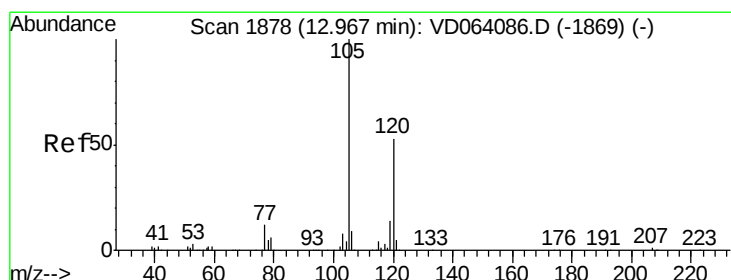
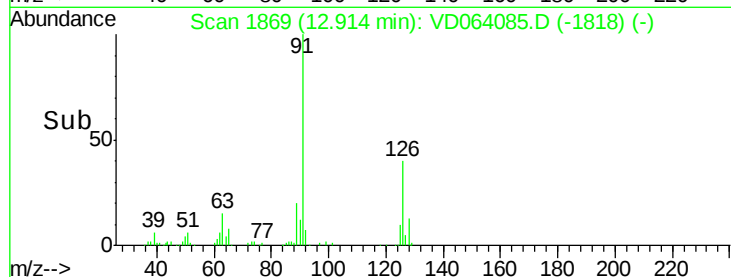
100000

50000

0

12.85 12.90 12.95

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 19.640 ug/l

RT: 12.96 min Scan# 1877

Delta R.T. -0.01 min

Lab File: VD064085.D

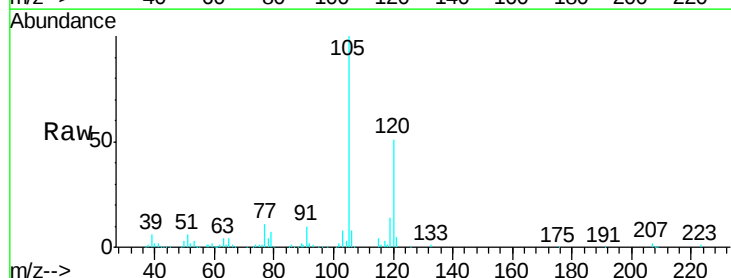
Acq: 29 Oct 2019 13:09

Tgt Ion: 105 Resp: 184045

Ion Ratio Lower Upper

105 100

120 54.0 25.8 77.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

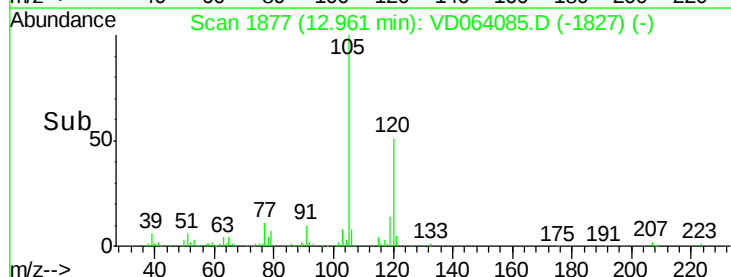
100000

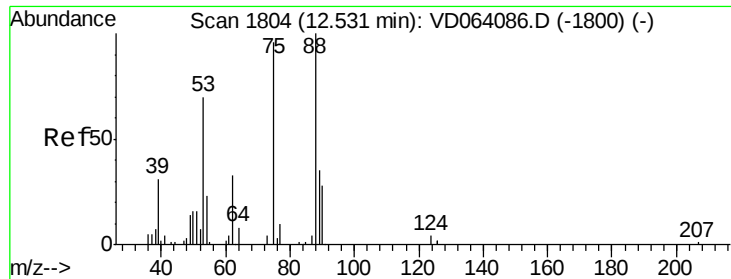
50000

0

12.90 12.95 13.00 13.05

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 19.589 ug/l

RT: 12.53 min Scan# 1804

Delta R.T. 0.00 min

Lab File: VD064085.D

Acq: 29 Oct 2019 13:09

Instrument :

MSVOA_D

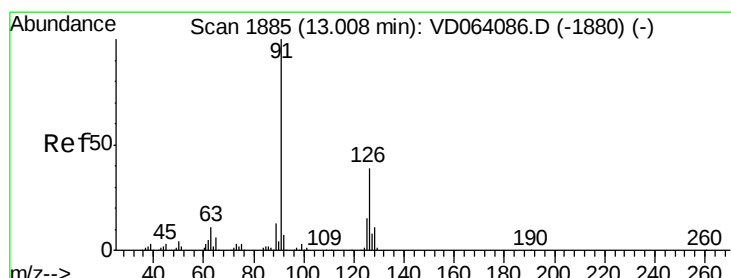
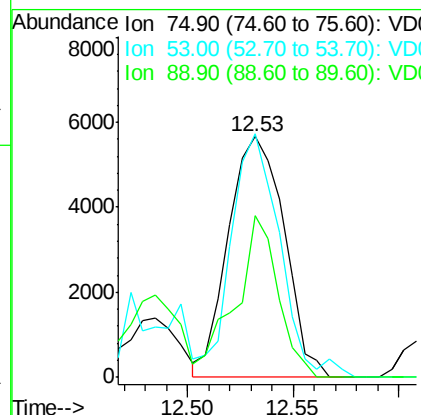
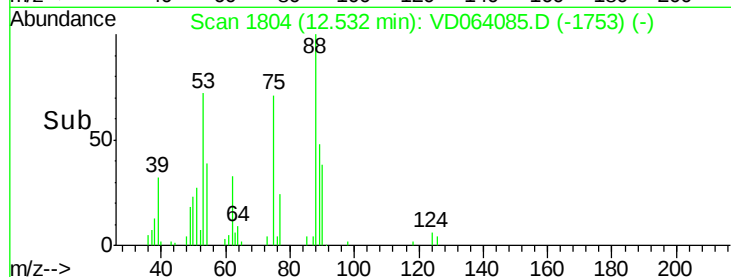
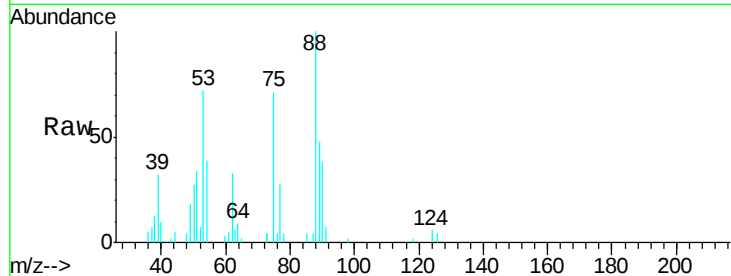
ClientSampleId :

VSTDIC020

Tgt Ion:	75	Resp:	10385
Ion Ratio	Lower	Upper	
75	100		
53	87.8	68.6	103.0
89	51.2	36.9	55.3

Manual Integrations
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#82

4-Chlorotoluene

Concen: 19.744 ug/l

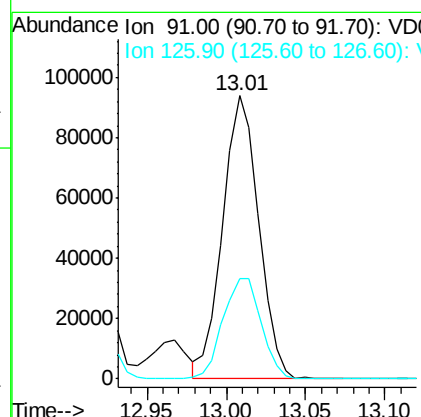
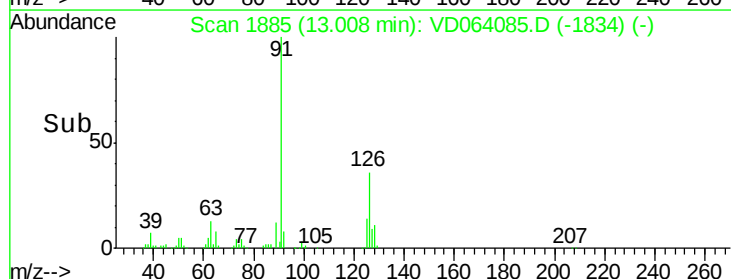
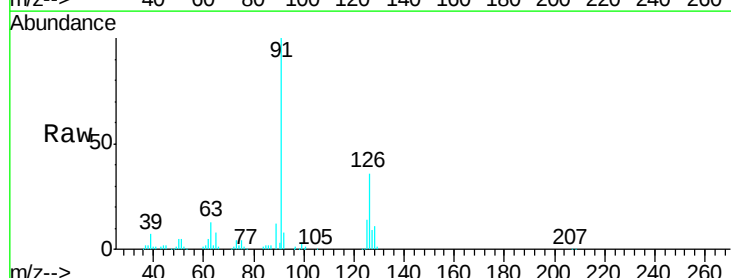
RT: 13.01 min Scan# 1885

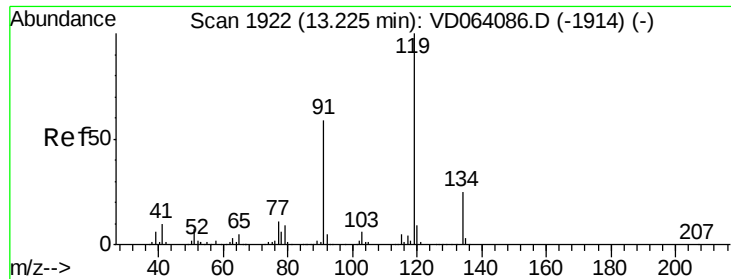
Delta R.T. 0.00 min

Lab File: VD064085.D

Acq: 29 Oct 2019 13:09

Tgt Ion:	91	Resp:	148392
Ion Ratio	Lower	Upper	
91	100		
126	37.9	18.9	56.5





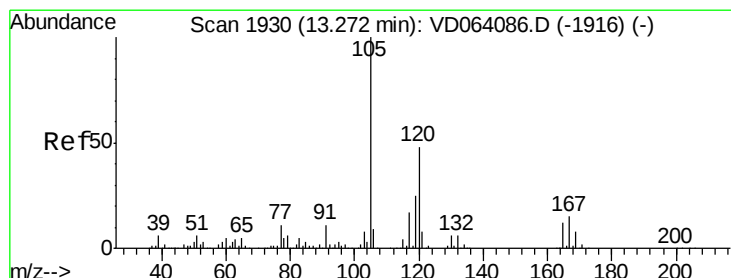
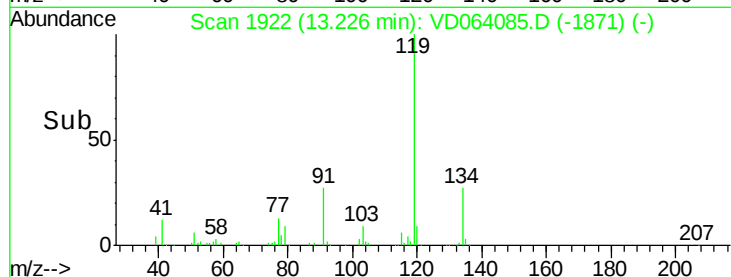
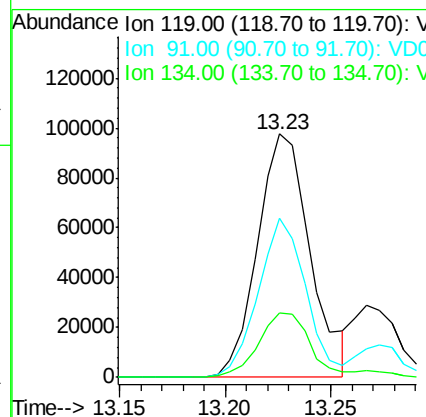
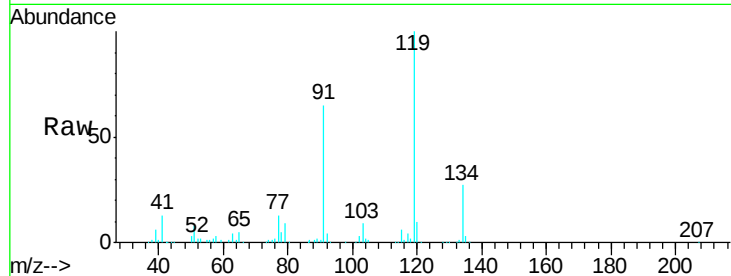
#83
 tert-Butylbenzene
 Concen: 20.088 ug/l
 RT: 13.23 min Scan# 1922
 Delta R.T. 0.00 min
 Lab File: VD064085.D
 Acq: 29 Oct 2019 13:09

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC020

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	169076		
91	59.4	28.3	85.0	
134	27.6	12.9	38.6	

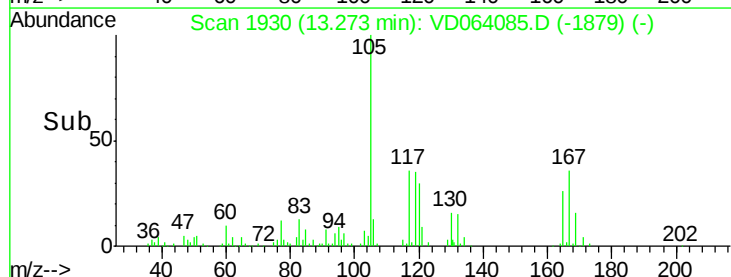
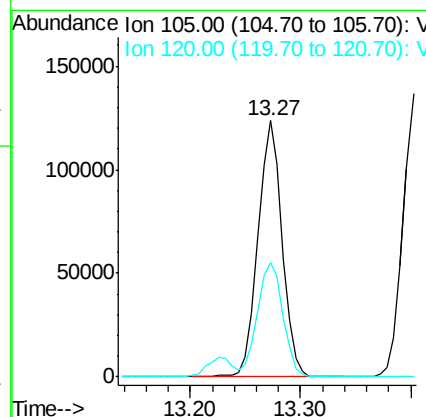
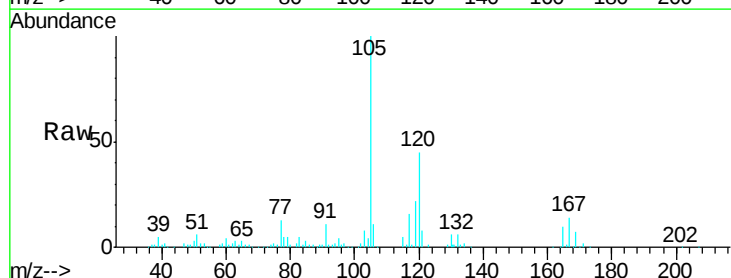
Manual Integrations
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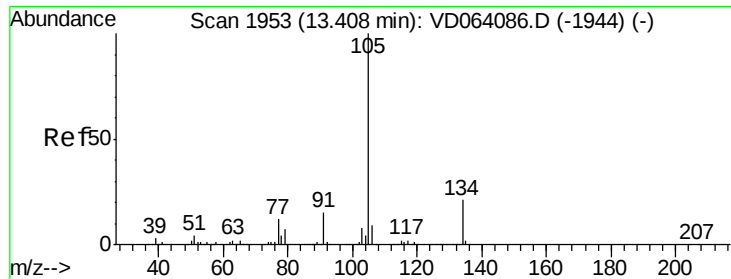
MMDadoda
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#84
 1,2,4-Trimethylbenzene
 Concen: 20.143 ug/l
 RT: 13.27 min Scan# 1930
 Delta R.T. 0.00 min
 Lab File: VD064085.D
 Acq: 29 Oct 2019 13:09

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	189619		
120	47.2	24.1	72.4	





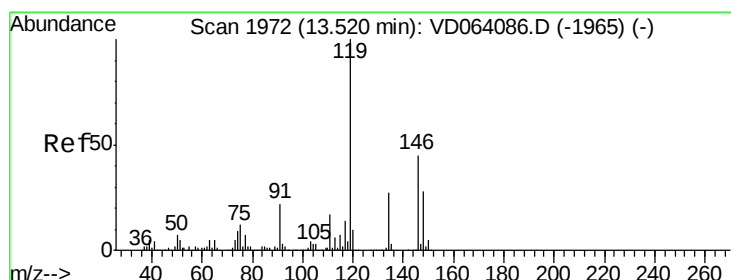
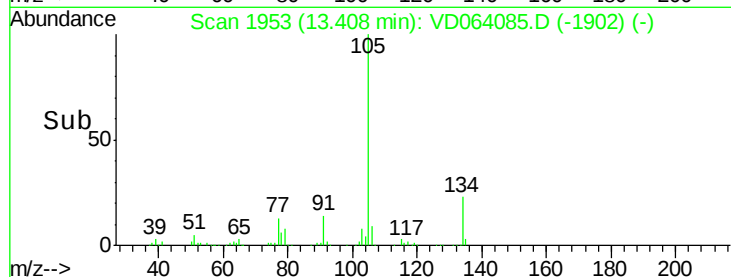
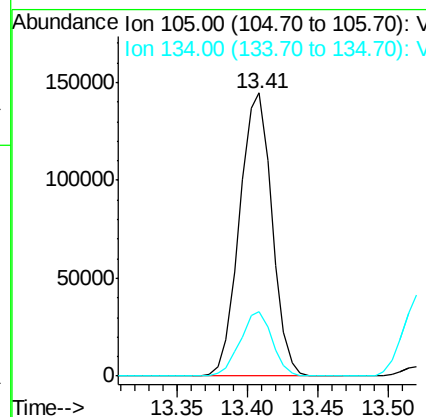
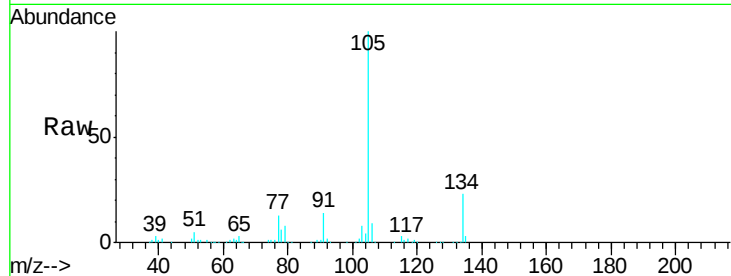
#85
 sec-Butylbenzene
 Concen: 20.068 ug/l
 RT: 13.41 min Scan# 1953
 Delta R.T. 0.00 min
 Lab File: VD064085.D
 Acq: 29 Oct 2019 13:09

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC020

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	231953		
134	22.6	10.4	31.2	

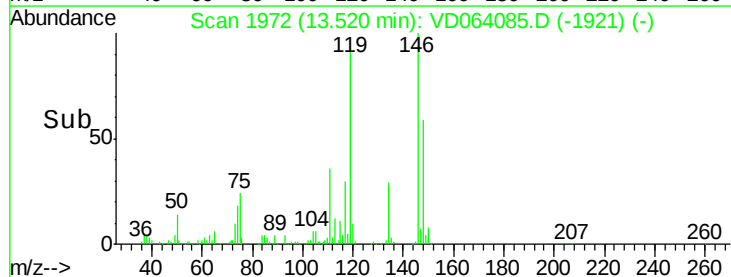
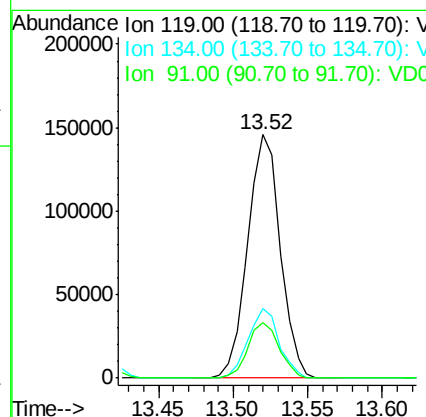
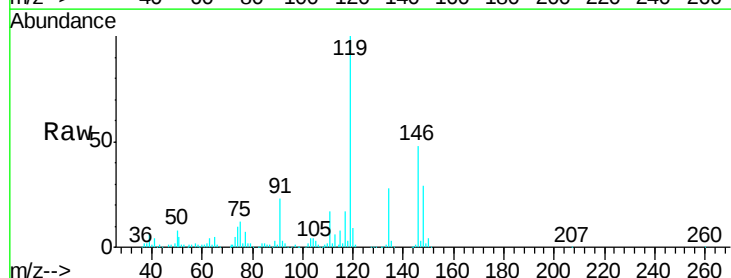
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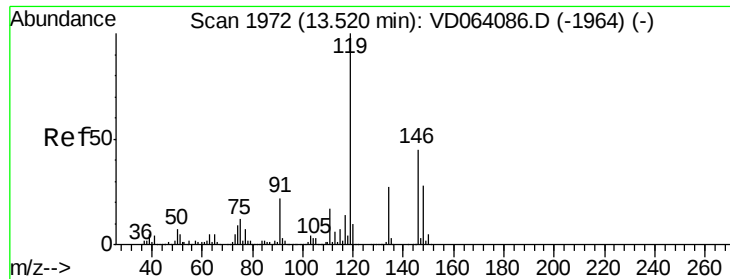
MMDadoda
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#86
 p-Isopropyltoluene
 Concen: 20.187 ug/l
 RT: 13.52 min Scan# 1972
 Delta R.T. 0.00 min
 Lab File: VD064085.D
 Acq: 29 Oct 2019 13:09

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	219238		
134	27.4	13.6	40.8	
91	22.0	10.9	32.6	





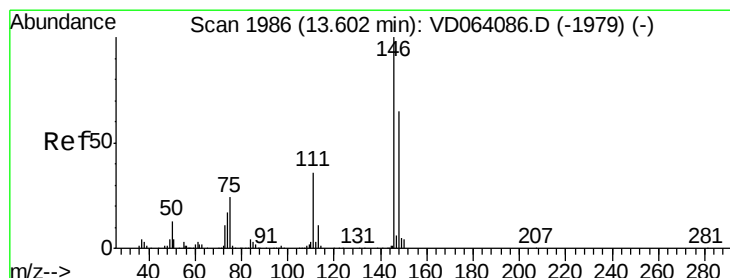
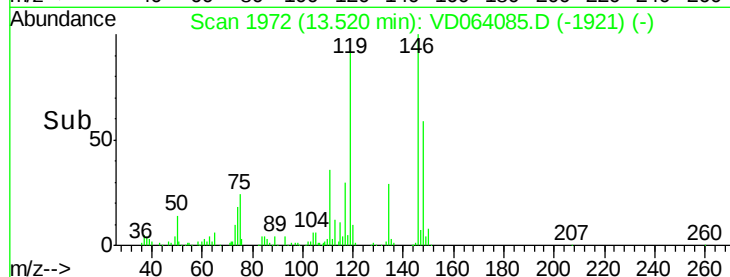
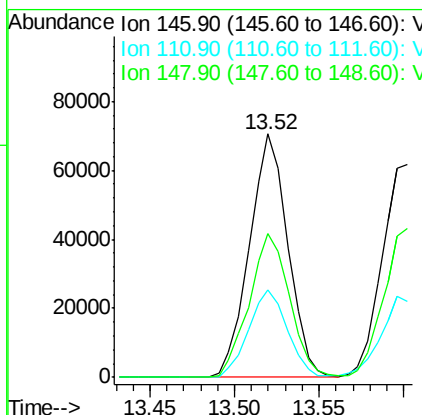
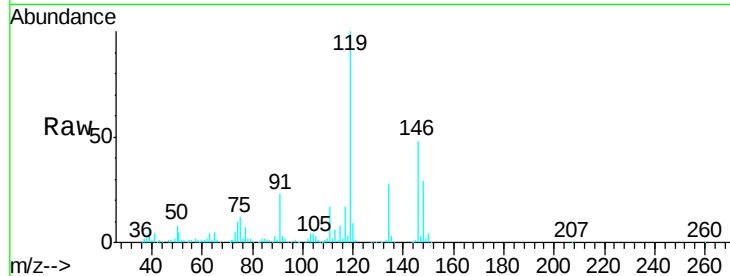
#87
 1,3-Dichlorobenzene
 Concen: 20.542 ug/l
 RT: 13.52 min Scan# 1972
 Delta R.T. 0.00 min
 Lab File: VD064085.D
 Acq: 29 Oct 2019 13:09

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC020

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	111290		
111	36.7	18.9	56.9	
148	62.5	32.1	96.3	

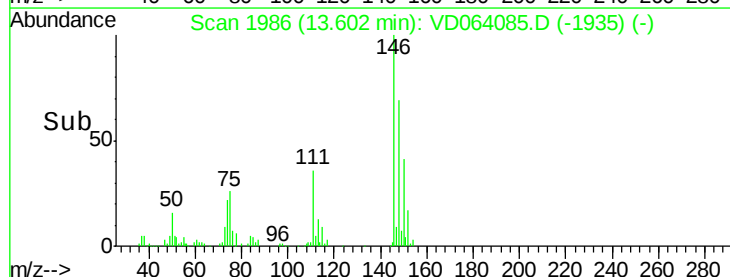
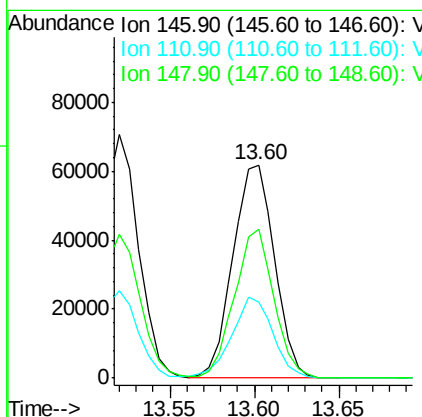
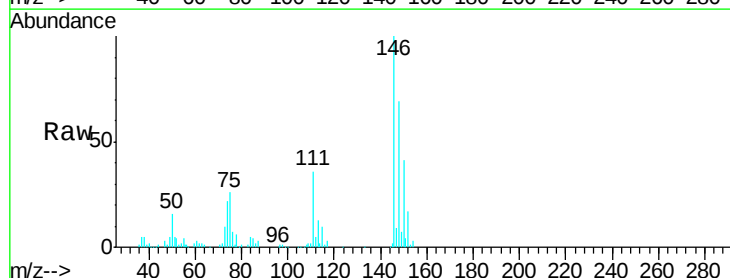
Manual Integrations
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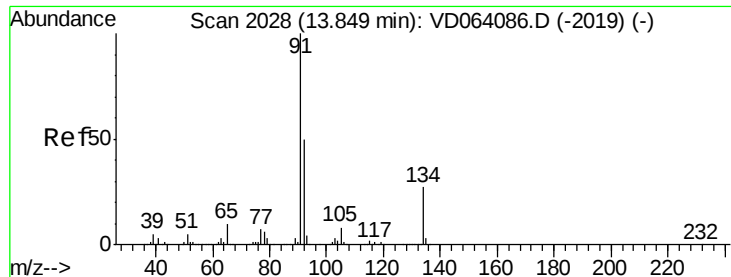
MMDadoda
 10/30/2019 10:58:09 AM



#88
 1,4-Dichlorobenzene
 Concen: 19.902 ug/l
 RT: 13.60 min Scan# 1986
 Delta R.T. 0.00 min
 Lab File: VD064085.D
 Acq: 29 Oct 2019 13:09

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	106286		
111	37.5	18.4	55.4	
148	66.1	32.4	97.0	





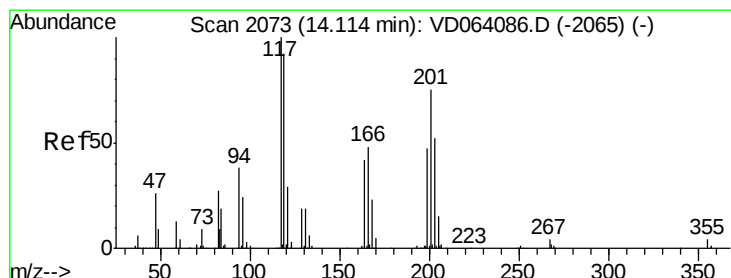
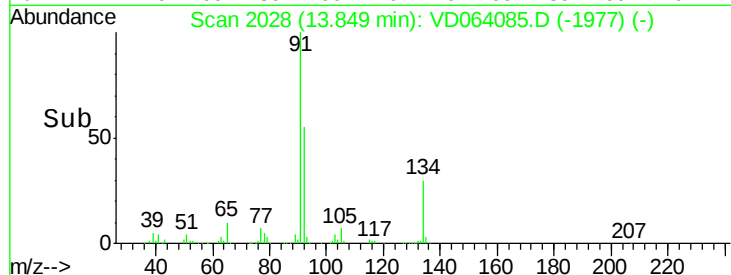
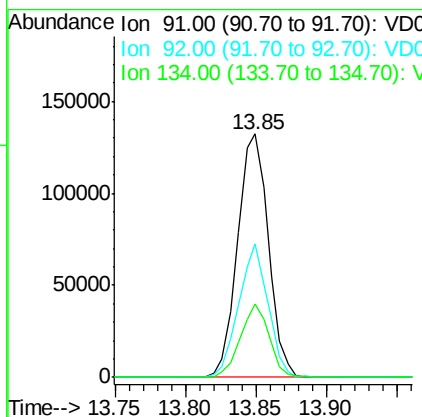
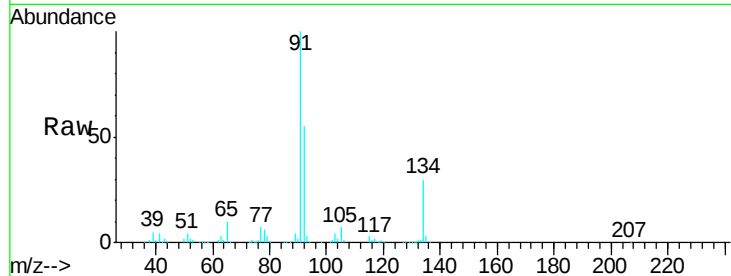
#89
n-Butylbenzene
Concen: 20.152 ug/l
RT: 13.85 min Scan# 2028
Delta R.T. 0.00 min
Lab File: VD064085.D
Acq: 29 Oct 2019 13:09

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	201858		
92	52.2		25.6	76.6
134	27.9		14.0	42.0

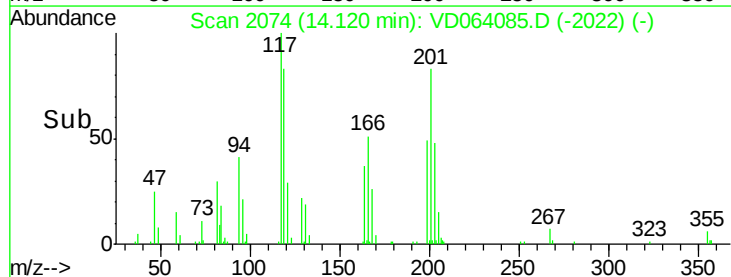
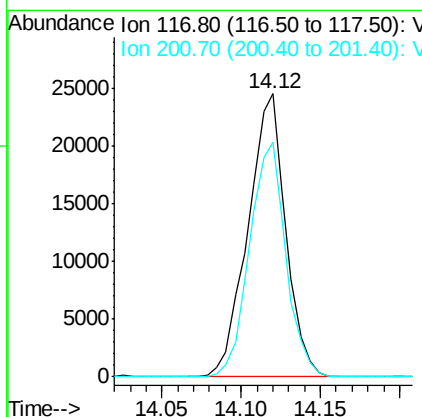
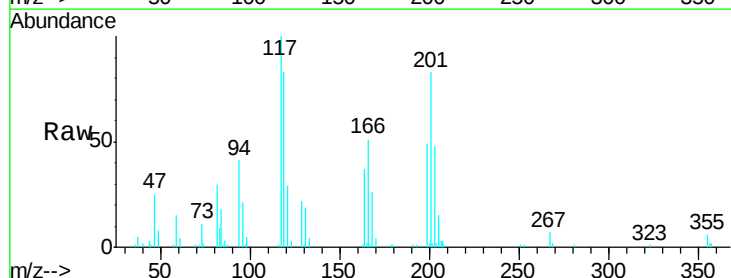
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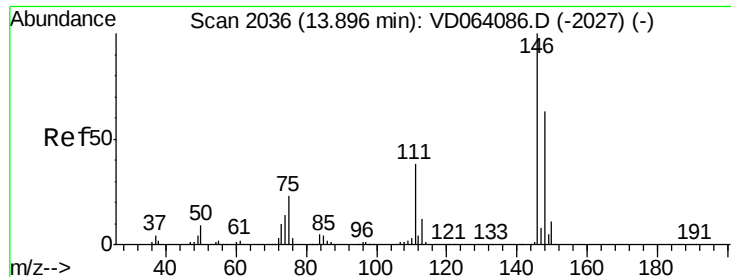
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10/30/2019 10:58:09 AM



#90
Hexachloroethane
Concen: 19.978 ug/l
RT: 14.12 min Scan# 2074
Delta R.T. 0.01 min
Lab File: VD064085.D
Acq: 29 Oct 2019 13:09

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	40621		
201	79.4		38.4	115.2





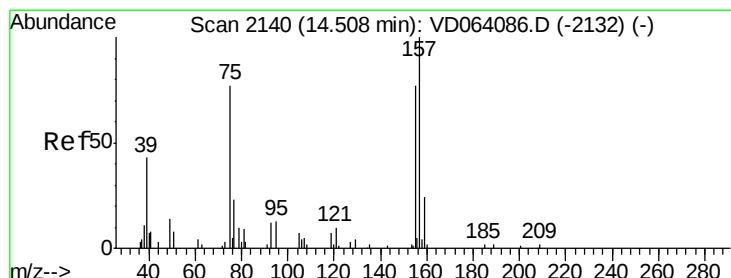
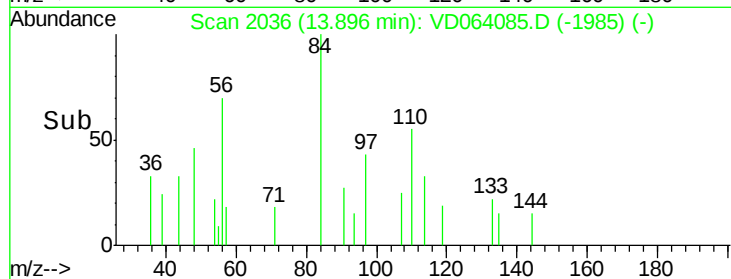
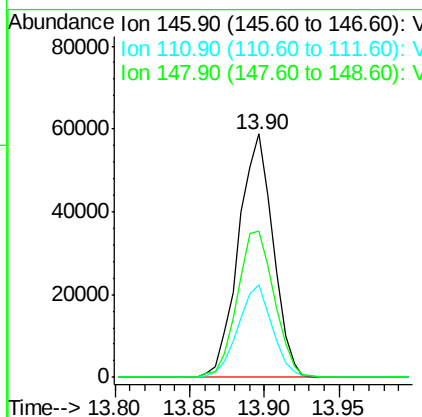
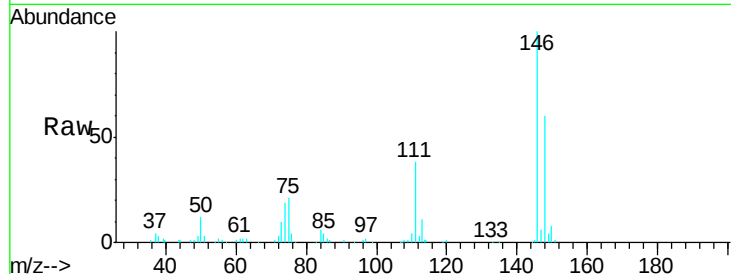
#91
 1,2-Dichlorobenzene
 Concen: 20.267 ug/l
 RT: 13.90 min Scan# 2036
 Delta R.T. 0.00 min
 Lab File: VD064085.D
 Acq: 29 Oct 2019 13:09

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC020

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.8	19.1	57.1
148	64.2	32.1	96.5

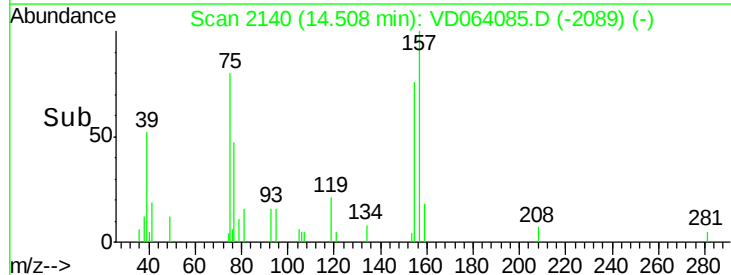
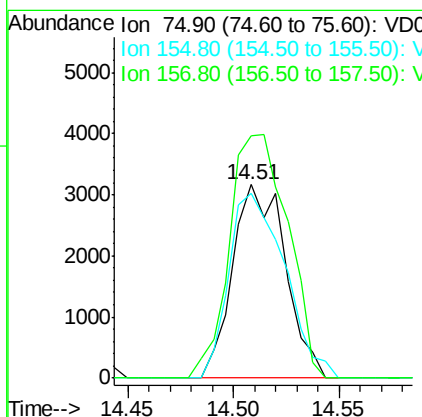
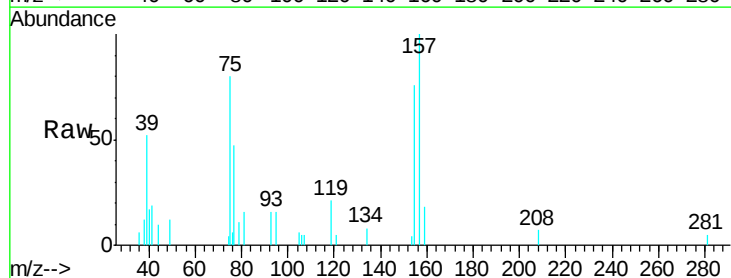
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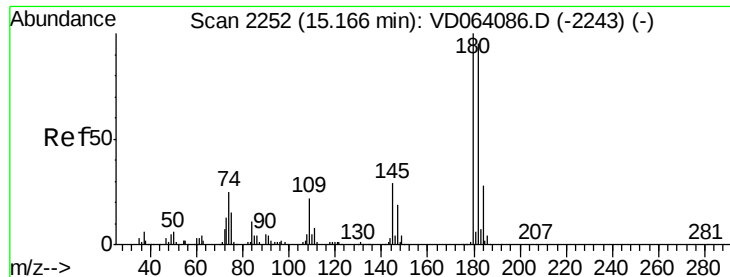
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 21.168 ug/l
 RT: 14.51 min Scan# 2140
 Delta R.T. 0.00 min
 Lab File: VD064085.D
 Acq: 29 Oct 2019 13:09

Tgt Ion	Ratio	Lower	Upper
75	100		
155	101.7	56.3	168.9
157	140.0	72.2	216.6





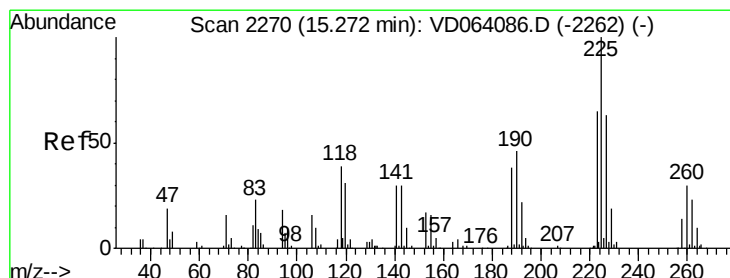
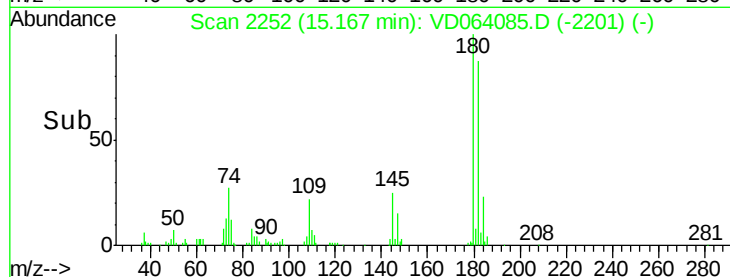
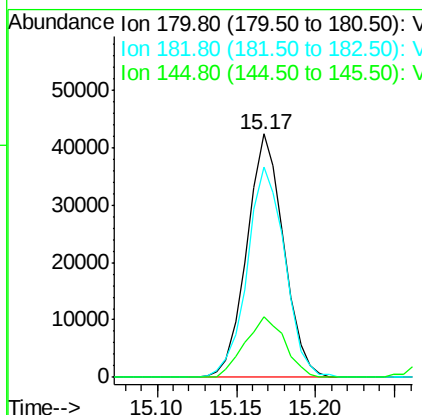
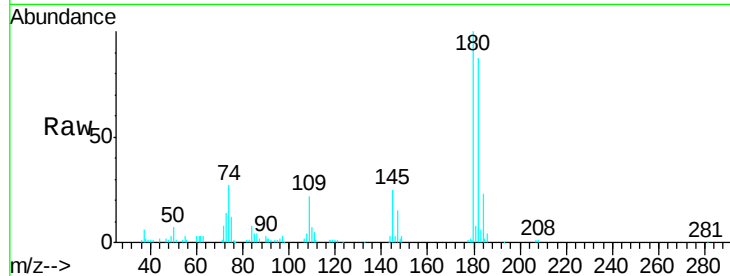
#93
1,2,4-Trichlorobenzene
Concen: 20.473 ug/l
RT: 15.17 min Scan# 2252
Delta R.T. 0.00 min
Lab File: VD064085.D
Acq: 29 Oct 2019 13:09

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	68615		
182	88.4	46.9	140.7	
145	26.9	14.2	42.6	

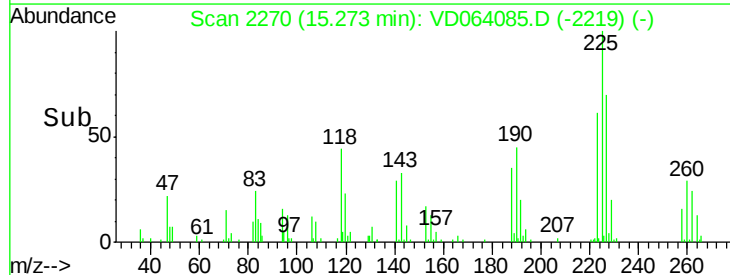
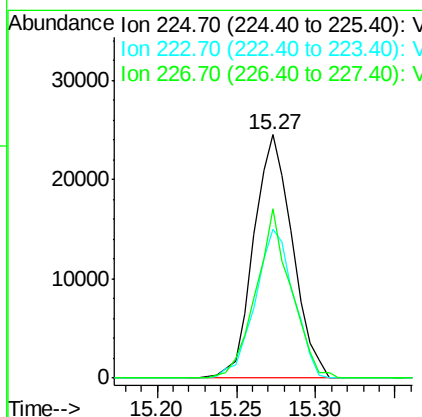
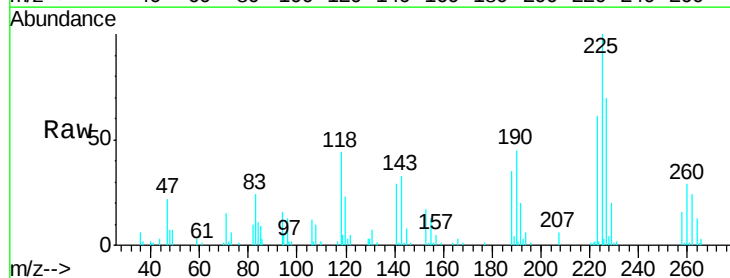
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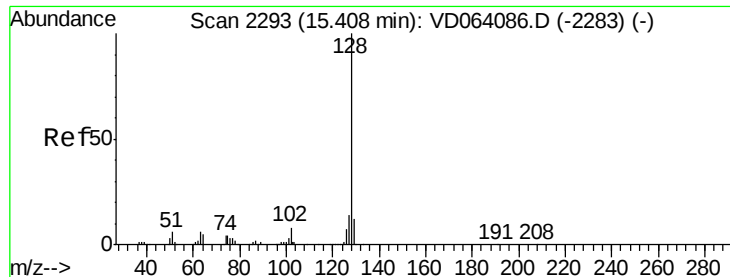
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10/30/2019 10:58:09 AM



#94
Hexachlorobutadiene
Concen: 21.297 ug/l
RT: 15.27 min Scan# 2270
Delta R.T. 0.00 min
Lab File: VD064085.D
Acq: 29 Oct 2019 13:09

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	41715		
223	60.8	30.8	92.3	
227	63.2	31.7	95.1	





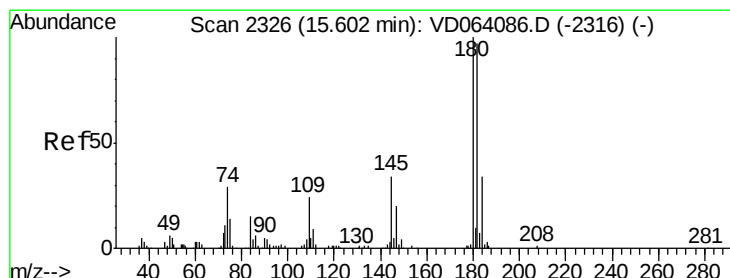
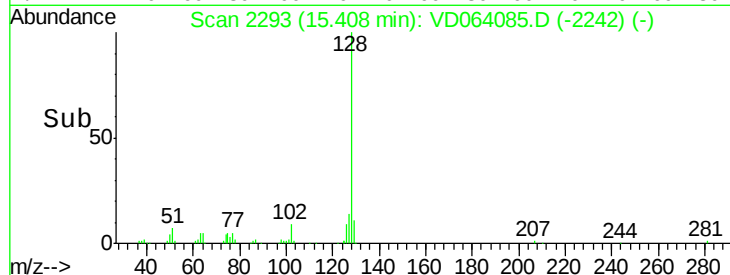
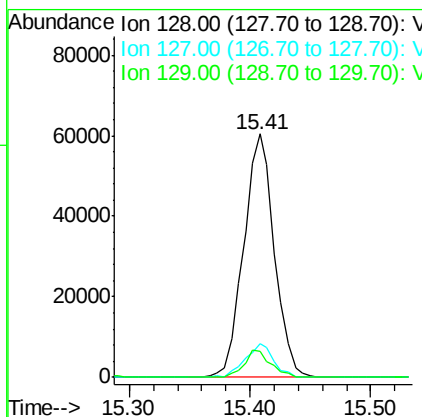
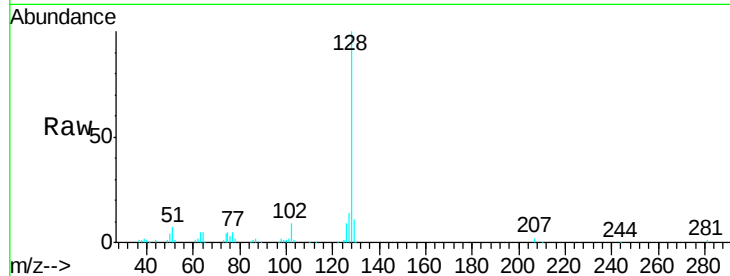
#95
Naphthalene
Concen: 19.413 ug/l
RT: 15.41 min Scan# 2293
Delta R.T. 0.00 min
Lab File: VD064085.D
Acq: 29 Oct 2019 13:09

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tgt Ion	Ratio	Resp	Lower	Upper
128	100	106108		
127	12.9	10.9	16.3	
129	10.0	8.8	13.2	

Manual Integrations
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#96
1,2,3-Trichlorobenzene
Concen: 19.987 ug/l
RT: 15.60 min Scan# 2326
Delta R.T. 0.00 min
Lab File: VD064085.D
Acq: 29 Oct 2019 13:09

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	58021		
182	97.5	48.4	145.0	
145	31.3	16.4	49.4	

