

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD020320\
 Data File : VD065046.D
 Acq On : 03 Feb 2020 11:24
 Operator : VA/SY
 Sample : VD0203SBS01
 Misc : 5.00G/5.00ml/MSVOA D/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0203SBS01

Manual Integrations
 APPROVED

MMDadoda
 2/4/2020 11:21:11 AM

Quant Time: Feb 03 12:56:59 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D012320S.M
 Quant Title : SW846 8260
 QLast Update : Thu Jan 23 13:45:59 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	475054	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	706988	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	628125	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	296363	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.33	65	232731	51.07	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.14%	
35) Dibromofluoromethane	7.92	113	234603	52.81	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.62%	
50) Toluene-d8	10.34	98	895078	52.20	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.40%	
62) 4-Bromofluorobenzene	12.64	95	273608	52.14	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.28%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.99	85	77252	21.586	ug/l	96
3) Chloromethane	2.21	50	113141	21.570	ug/l	93
4) Vinyl Chloride	2.35	62	123474	20.496	ug/l	100
5) Bromomethane	2.76	94	78630	19.403	ug/l	100
6) Chloroethane	2.92	64	80813	20.347	ug/l	96
7) Trichlorofluoromethane	3.27	101	187266	20.127	ug/l	96
8) Diethyl Ether	3.71	74	43794	20.851	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	4.09	101	95737	22.117	ug/l	100
10) Methyl Iodide	4.30	142	87041	18.944	ug/l	96
11) Tert butyl alcohol	5.25	59	25504	101.282	ug/l #	93
12) 1,1-Dichloroethene	4.06	96	91995	22.247	ug/l	93
13) Acrolein	3.93	56	23141	73.307	ug/l	100
14) Allyl chloride	4.71	41	145488	22.059	ug/l	98
15) Acrylonitrile	5.43	53	91751	100.875	ug/l	99
16) Acetone	4.16	43	98348	90.490	ug/l	96
17) Carbon Disulfide	4.40	76	288773	21.218	ug/l	100
18) Methyl Acetate	4.72	43	47400	22.210	ug/l	99
19) Methyl tert-butyl Ether	5.48	73	185465	20.072	ug/l	99
20) Methylene Chloride	4.96	84	119495	23.587	ug/l	95
21) trans-1,2-Dichloroethene	5.47	96	101444	21.293	ug/l	95
22) Diisopropyl ether	6.37	45	283391	21.561	ug/l	97
23) Vinyl Acetate	6.31	43	758260	98.532	ug/l	100
24) 1,1-Dichloroethane	6.26	63	178134	22.073	ug/l	96
25) 2-Butanone	7.22	43	119254	96.869	ug/l	100
26) 2,2-Dichloropropane	7.21	77	166165	22.700	ug/l	97
27) cis-1,2-Dichloroethene	7.21	96	108921	21.419	ug/l	99
28) Bromochloromethane	7.56	49	57107	17.694	ug/l	99
29) Tetrahydrofuran	7.57	42	73634	96.940	ug/l	100
30) Chloroform	7.71	83	184662	22.136	ug/l	99
31) Cyclohexane	7.98	56	168110	21.175	ug/l	96
32) 1,1,1-Trichloroethane	7.90	97	173015	22.293	ug/l	98
36) 1,1-Dichloropropene	8.11	75	145393	21.327	ug/l	99
37) Ethyl Acetate	7.30	43	54971	19.521	ug/l	99
38) Carbon Tetrachloride	8.10	117	155344	21.559	ug/l	97

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD020320\
 Data File : VD065046.D
 Acq On : 03 Feb 2020 11:24
 Operator : VA/SY
 Sample : VD0203SBS01
 Misc : 5.00G/5.00ml/MSVOA D/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0203SBS01

Manual Integrations
 APPROVED

MMDadoda
 2/4/2020 11:21:11 AM

Quant Time: Feb 03 12:56:59 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D012320S.M
 Quant Title : SW846 8260
 QLast Update : Thu Jan 23 13:45:59 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.36	83	164038	20.581	ug/l	96
40) Benzene	8.36	78	395247	21.051	ug/l	99
41) Methacrylonitrile	7.53	41	26493m	17.465	ug/l	
42) 1,2-Dichloroethane	8.43	62	116110	20.760	ug/l	99
43) Isopropyl Acetate	8.46	43	102196	19.106	ug/l	99
44) Trichloroethene	9.11	130	111171	21.156	ug/l	94
45) 1,2-Dichloropropane	9.39	63	95672	21.019	ug/l	94
46) Dibromomethane	9.48	93	51237	20.618	ug/l	96
47) Bromodichloromethane	9.67	83	139424	21.561	ug/l	95
48) Methyl methacrylate	9.46	41	48751	19.805	ug/l	98
49) 1,4-Dioxane	9.46	88	11427	396.479	ug/l	98
51) 4-Methyl-2-Pentanone	10.23	43	255489	95.458	ug/l	100
52) Toluene	10.41	92	256164	21.161	ug/l	99
53) t-1,3-Dichloropropene	10.63	75	125775	20.420	ug/l	93
54) cis-1,3-Dichloropropene	10.10	75	149541	20.736	ug/l	96
55) 1,1,2-Trichloroethane	10.81	97	67729	20.233	ug/l	96
56) Ethyl methacrylate	10.67	69	78635	19.645	ug/l	99
57) 1,3-Dichloropropane	10.96	76	116437	20.281	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.94	63	129626	97.475	ug/l	99
59) 2-Hexanone	10.99	43	177634	96.219	ug/l	96
60) Dibromochloromethane	11.14	129	91269	20.400	ug/l	100
61) 1,2-Dibromoethane	11.25	107	64498	20.011	ug/l	99
64) Tetrachloroethene	10.88	164	95639	21.070	ug/l	96
65) Chlorobenzene	11.68	112	263171	20.635	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.75	131	101246	21.109	ug/l	98
67) Ethyl Benzene	11.75	91	469946	20.756	ug/l	99
68) m/p-Xylenes	11.86	106	365881	41.971	ug/l	99
69) o-Xylene	12.19	106	160139	20.698	ug/l	98
70) Styrene	12.20	104	285198	20.693	ug/l	99
71) Bromoform	12.37	173	52739	19.781	ug/l #	99
73) Isopropylbenzene	12.48	105	437583	21.602	ug/l	99
74) N-amyl acetate	12.30	43	87822	19.375	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.74	83	70538	20.719	ug/l	97
76) 1,2,3-Trichloropropane	12.80	75	49844m	20.263	ug/l	
77) Bromobenzene	12.77	156	105324	21.251	ug/l	99
78) n-propylbenzene	12.83	91	526340	21.849	ug/l	99
79) 2-Chlorotoluene	12.91	91	292448	22.130	ug/l	98
80) 1,3,5-Trimethylbenzene	12.97	105	364038	21.930	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.54	75	22821	19.809	ug/l	98
82) 4-Chlorotoluene	13.01	91	309079	22.054	ug/l	98
83) tert-Butylbenzene	13.23	119	299199	21.239	ug/l	99
84) 1,2,4-Trimethylbenzene	13.27	105	355554	21.144	ug/l	98
85) sec-Butylbenzene	13.41	105	428076	21.462	ug/l	100
86) p-Isopropyltoluene	13.53	119	394929	21.159	ug/l	100
87) 1,3-Dichlorobenzene	13.53	146	204588	21.514	ug/l	98
88) 1,4-Dichlorobenzene	13.60	146	199159	21.101	ug/l	99
89) n-Butylbenzene	13.86	91	362349	21.273	ug/l	99
90) Hexachloroethane	14.12	117	78303	21.755	ug/l	98
91) 1,2-Dichlorobenzene	13.90	146	168900	20.921	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	14.52	75	10850	19.915	ug/l	99

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD020320\
Data File : VD065046.D
Acq On : 03 Feb 2020 11:24
Operator : VA/SY
Sample : VD0203SBS01
Misc : 5.00G/5.00ml/MSVOA D/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
VD0203SBS01

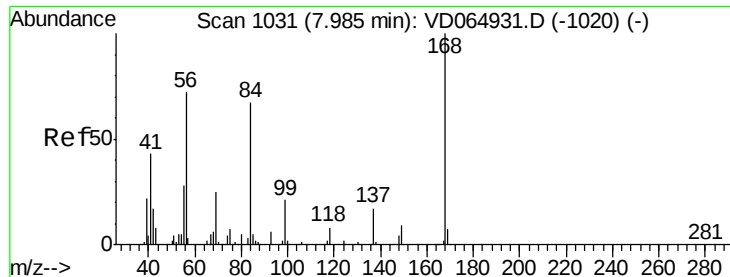
Manual Integrations
APPROVED

MMDadoda
2/4/2020 11:21:11 AM

Quant Time: Feb 03 12:56:59 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D012320S.M
Quant Title : SW846 8260
QLast Update : Thu Jan 23 13:45:59 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.17	180	112774	20.192	ug/l	99
94) Hexachlorobutadiene	15.28	225	74173	20.996	ug/l	97
95) Naphthalene	15.41	128	175661	19.488	ug/l	98
96) 1,2,3-Trichlorobenzene	15.61	180	96400	19.907	ug/l	98

(#) = 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: VD065046.D

Acq: 03 Feb 2020 11:24

Instrument :

MSVOA_D

ClientSampleId :

VD0203SBS01

Tot Ion:168 Resp: 475054

Ion Ratio Lower Upper

168 100

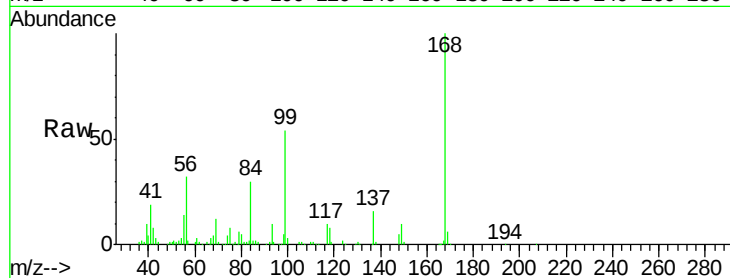
99 53.4 43.3 64.9

Manual Integrations

APPROVED

MMDadoda

2/4/2020 11:21:11 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

250000

200000

150000

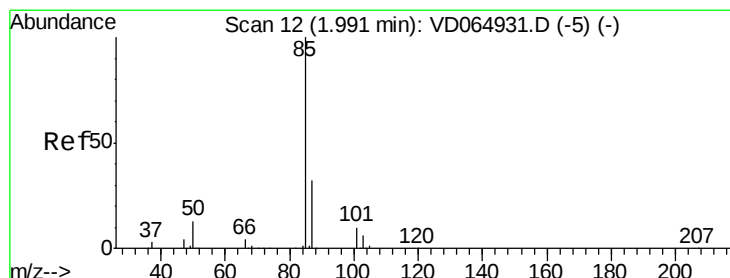
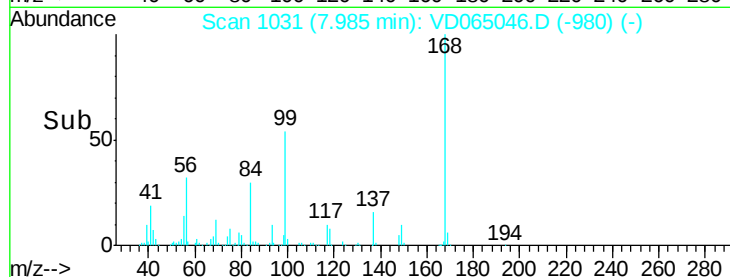
100000

50000

0

7.90 8.00 8.10

Time-->



#2

Dichlorodifluoromethane

Concen: 21.586 ug/l

RT: 1.99 min Scan# 12

Delta R.T. -0.00 min

Lab File: VD065046.D

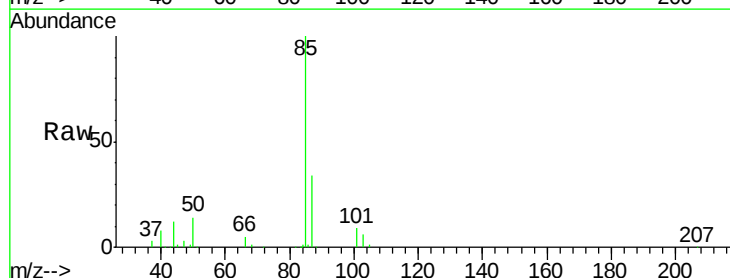
Acq: 03 Feb 2020 11:24

Tgt Ion: 85 Resp: 77252

Ion Ratio Lower Upper

85 100

87 33.9 15.8 47.3



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC

60000

50000

40000

30000

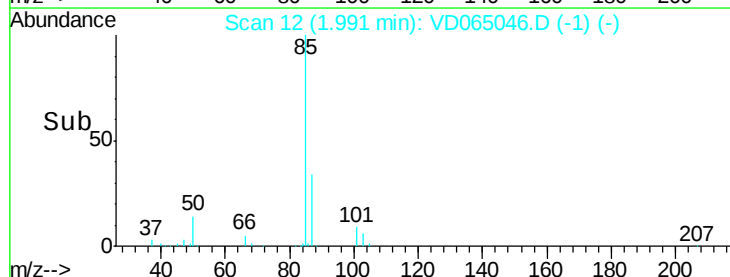
20000

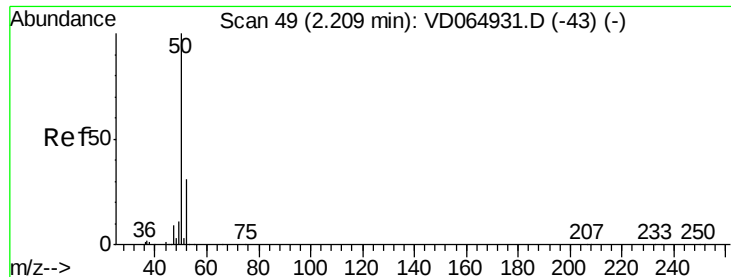
10000

0

1.90 1.95 2.00 2.05 2.10

Time-->





#3

Chloromethane

Concen: 21.570 ug/l

RT: 2.21 min Scan# 49

Delta R.T. -0.00 min

Lab File: VD065046.D

Acq: 03 Feb 2020 11:24

Instrument :

MSVOA_D

ClientSampleId :

VD0203SBS01

Tot Ion: 50 Resp: 113141

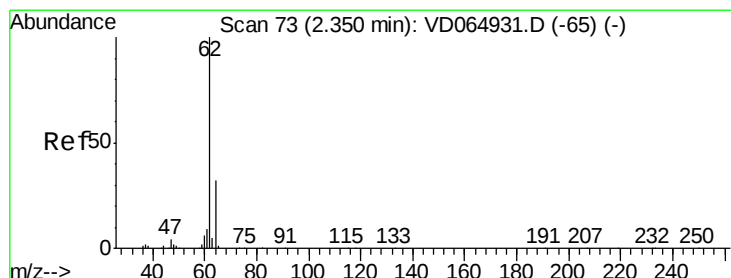
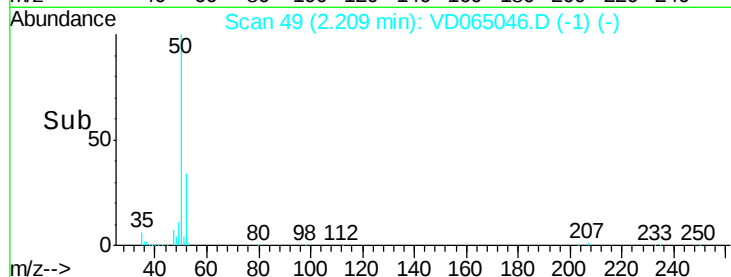
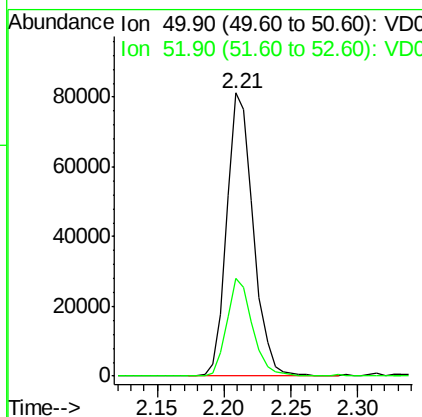
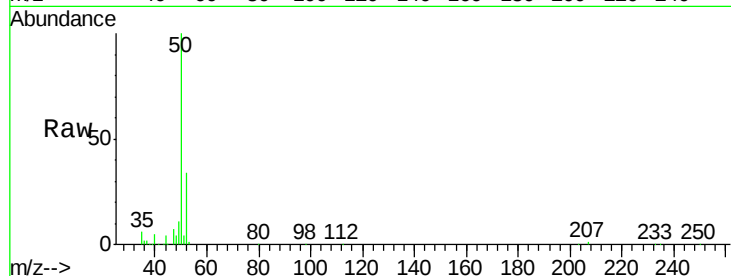
Ion Ratio Lower Upper

50 100

52 34.4 24.6 36.8

Manual Integrations
APPROVED

MMDadoda
2/4/2020 11:21:11 AM



#4

Vinyl Chloride

Concen: 20.496 ug/l

RT: 2.35 min Scan# 73

Delta R.T. -0.00 min

Lab File: VD065046.D

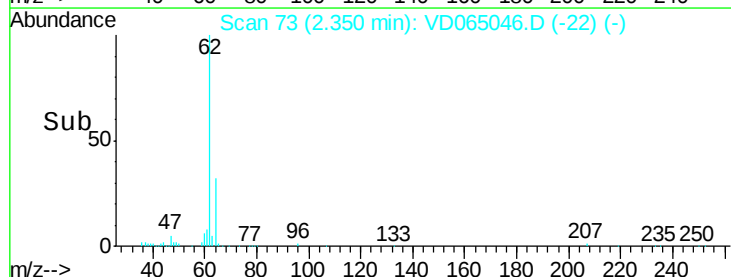
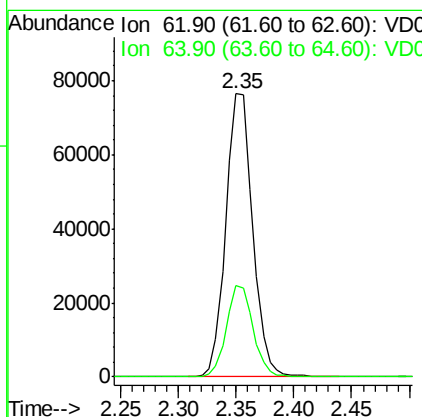
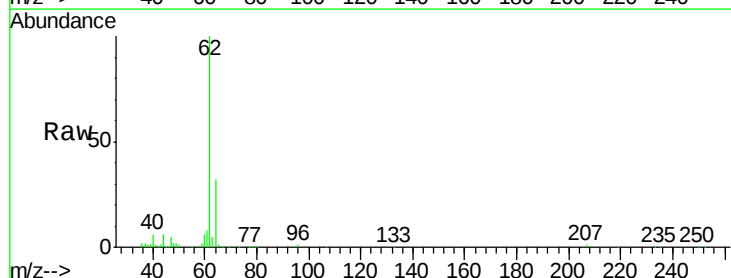
Acq: 03 Feb 2020 11:24

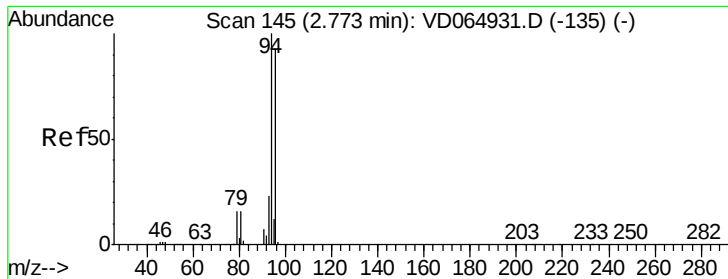
Tgt Ion: 62 Resp: 123474

Ion Ratio Lower Upper

62 100

64 32.2 25.6 38.4





#5

Bromomethane

Concen: 19.403 ug/l

RT: 2.76 min Scan# 143

Delta R.T. -0.01 min

Lab File: VD065046.D

Acq: 03 Feb 2020 11:24

Instrument :

MSVOA_D

ClientSampleId :

VD0203SBS01

Tot Ion: 94 Resp: 78630

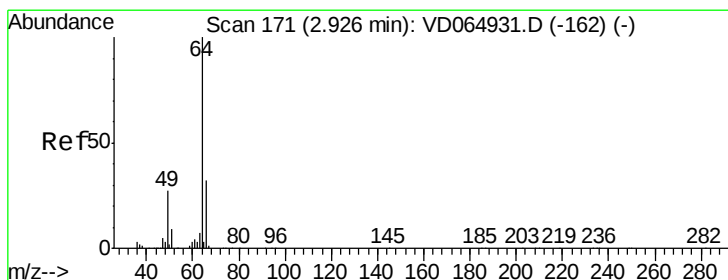
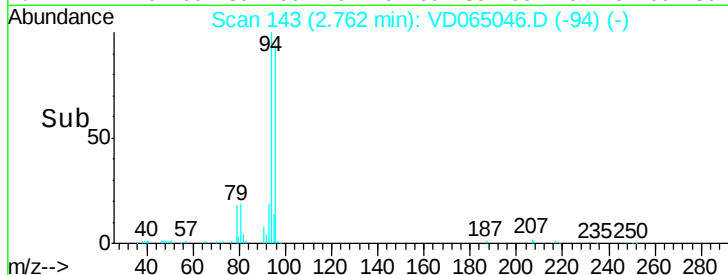
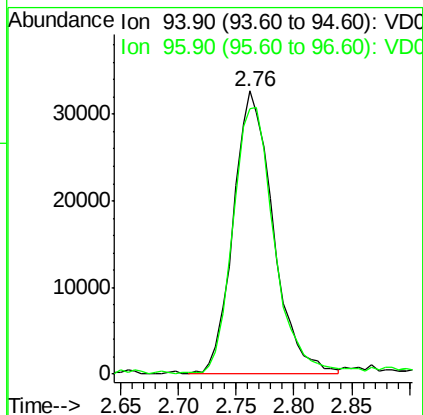
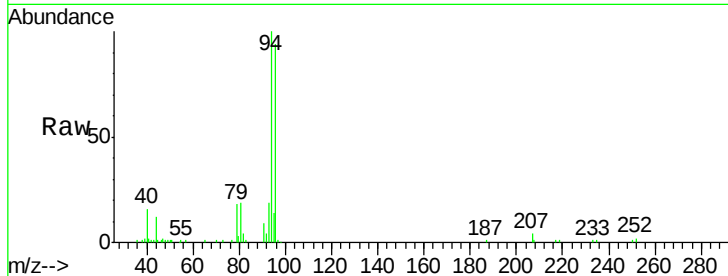
Ion Ratio Lower Upper

94 100

96 92.8 74.6 111.8

Manual Integrations
APPROVED

MMDadoda
2/4/2020 11:21:11 AM



#6

Chloroethane

Concen: 20.347 ug/l

RT: 2.92 min Scan# 170

Delta R.T. -0.01 min

Lab File: VD065046.D

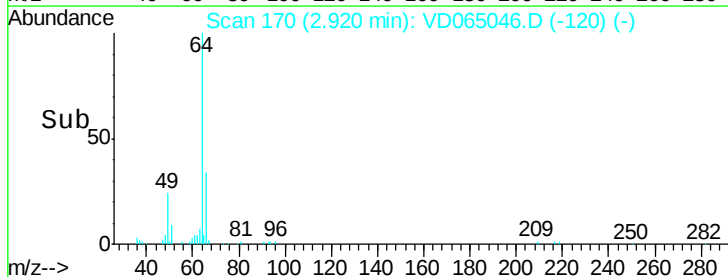
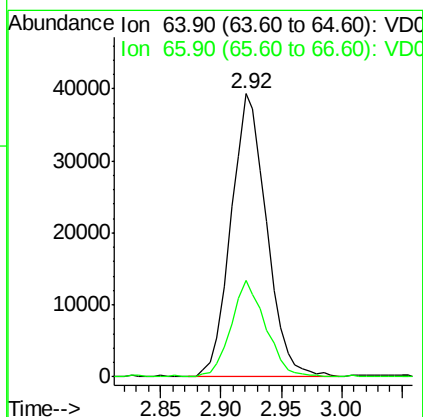
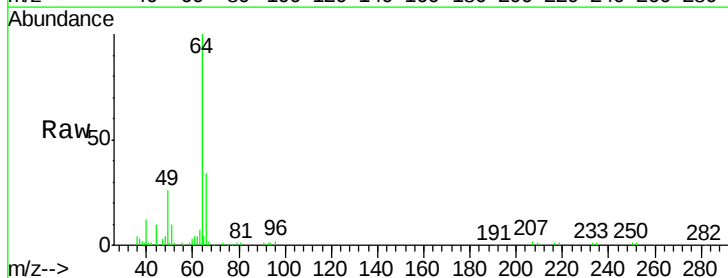
Acq: 03 Feb 2020 11:24

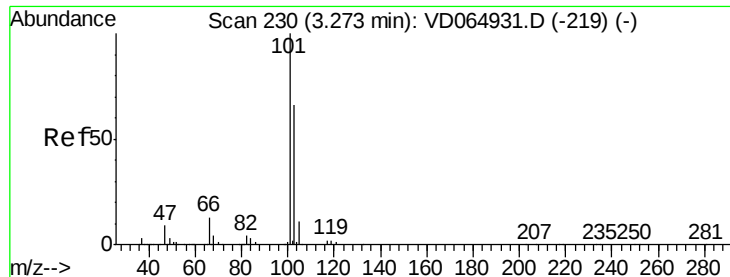
Tgt Ion: 64 Resp: 80813

Ion Ratio Lower Upper

64 100

66 33.9 25.3 37.9





#7

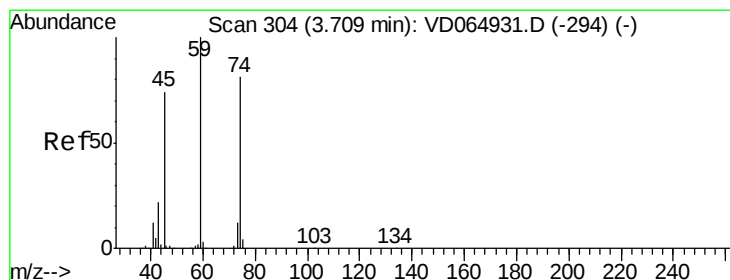
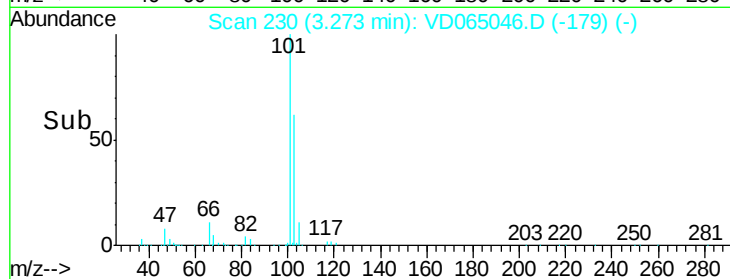
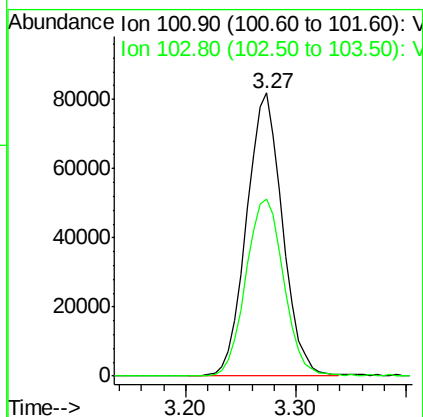
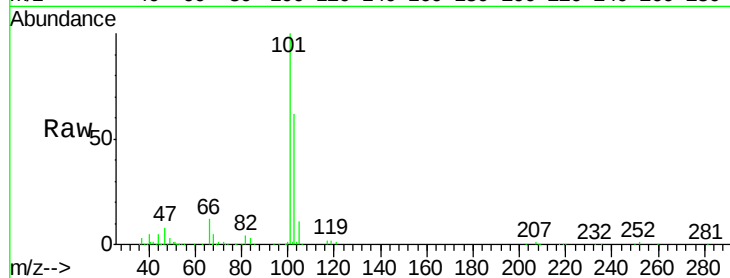
Trichlorofluoromethane
Concen: 20.127 ug/l
RT: 3.27 min Scan# 230
Delta R.T. -0.00 min
Lab File: VD065046.D
Acq: 03 Feb 2020 11:24

Instrument :
MSVOA_D
ClientSampleId :
VD0203SBS01

Tot Ion	Ratio	Lower	Upper
101	100		
103	62.5	52.5	78.7

Manual Integrations
APPROVED

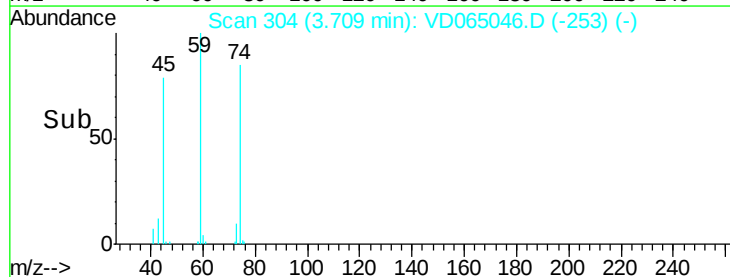
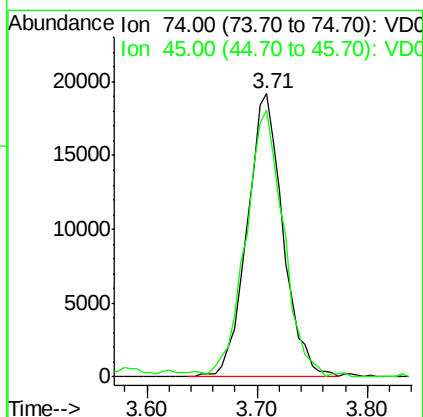
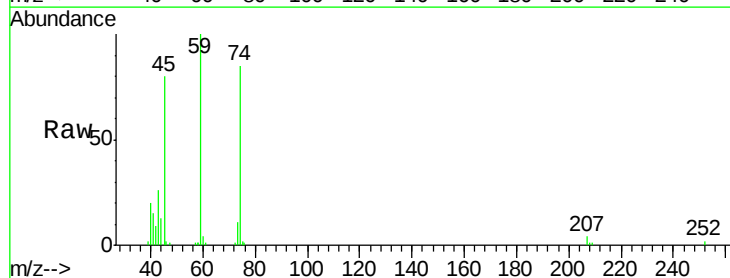
MMDadoda
2/4/2020 11:21:11 AM

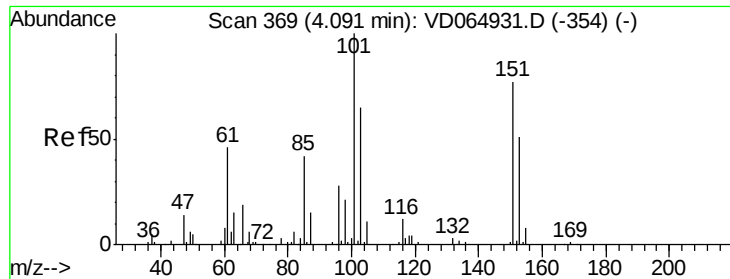


#8

Diethyl Ether
Concen: 20.851 ug/l
RT: 3.71 min Scan# 304
Delta R.T. -0.00 min
Lab File: VD065046.D
Acq: 03 Feb 2020 11:24

Tgt Ion	Ratio	Lower	Upper
74	100		
45	95.9	48.5	145.5





#9

1,1,2-Trichlorotrifluoroethane

Concen: 22.117 ug/l

RT: 4.09 min Scan# 368

Delta R.T. -0.01 min

Lab File: VD065046.D

Acq: 03 Feb 2020 11:24

Instrument :

MSVOA_D

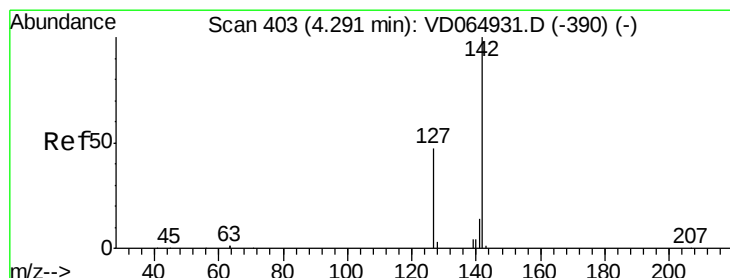
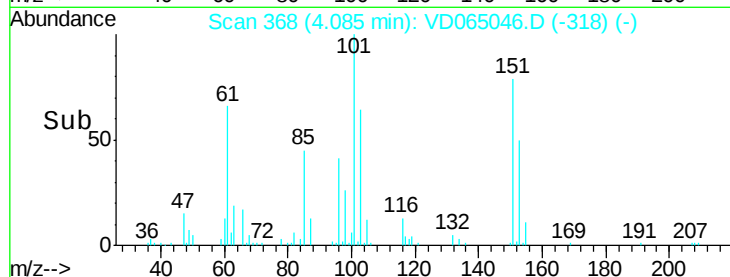
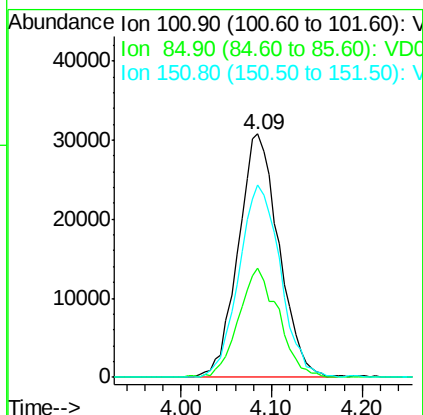
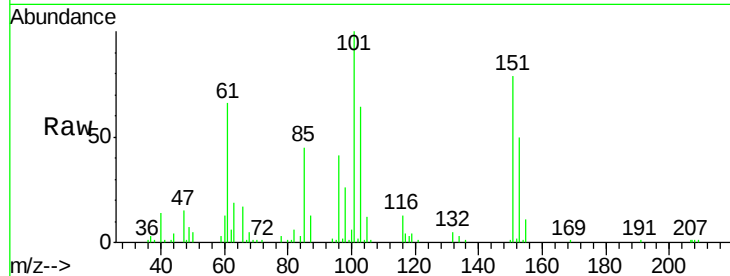
ClientSampleId :

VD0203SBS01

Tot Ion:	101	Resp:	95737
Ion Ratio	Lower	Upper	
101	100		
85	44.0	35.0	52.4
151	80.8	64.6	96.8

Manual Integrations
APPROVED

MMDadoda
2/4/2020 11:21:11 AM



#10

Methyl Iodide

Concen: 18.944 ug/l

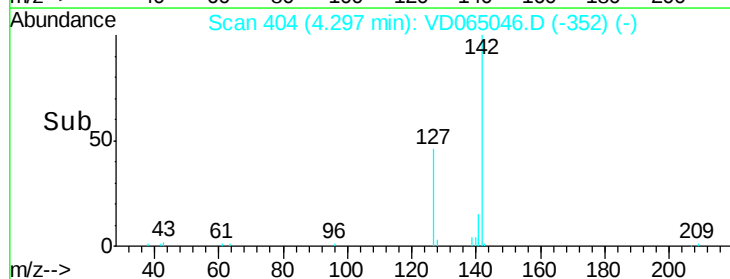
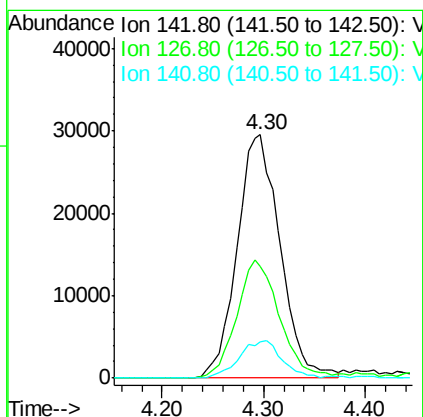
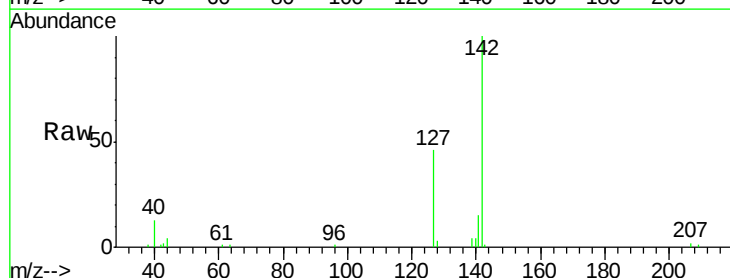
RT: 4.30 min Scan# 404

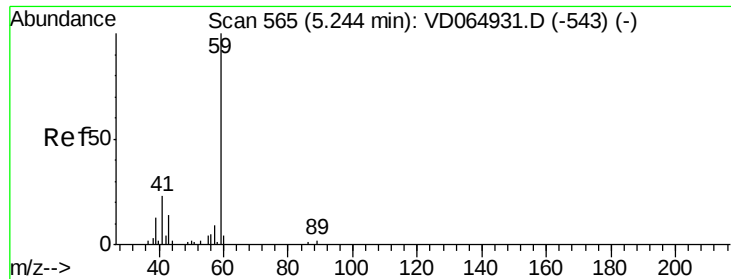
Delta R.T. 0.01 min

Lab File: VD065046.D

Acq: 03 Feb 2020 11:24

Tgt Ion:	142	Resp:	87041
Ion Ratio	Lower	Upper	
142	100		
127	47.9	36.2	54.2
141	15.2	11.6	17.4





#11

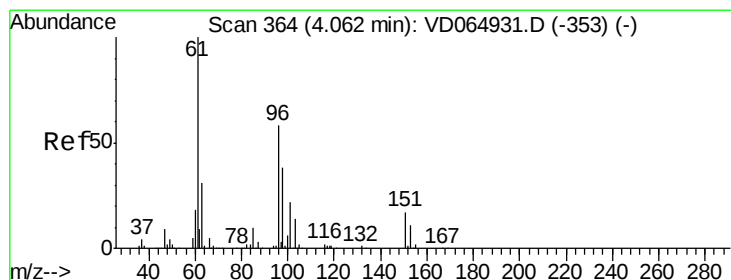
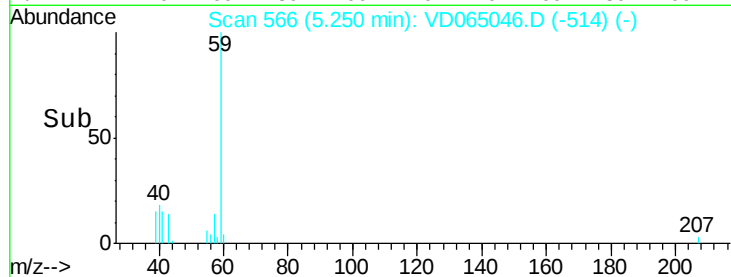
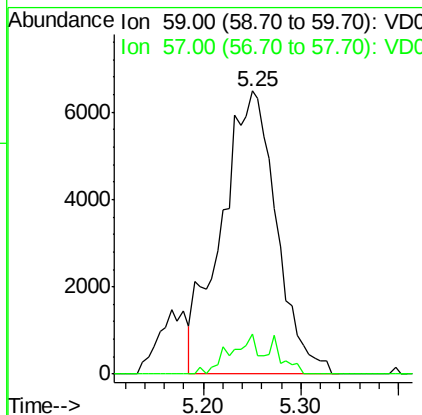
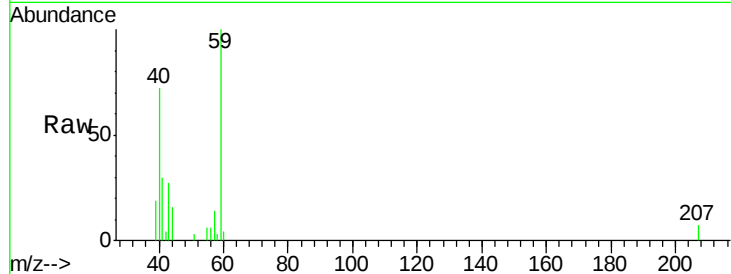
Tert butyl alcohol
 Concen: 101.282 ug/l
 RT: 5.25 min Scan# 566
 Delta R.T. 0.01 min
 Lab File: VD065046.D
 Acq: 03 Feb 2020 11:24

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0203SBS01

Tot Ion	Ratio	Lower	Upper
59	100		
57	7.1	7.7	11.5#

Manual Integrations
 APPROVED

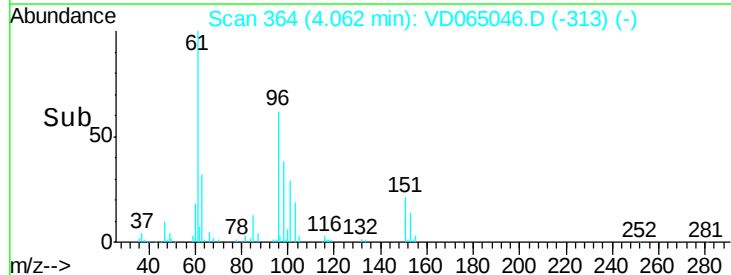
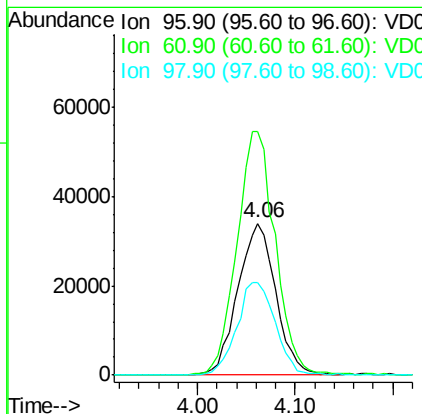
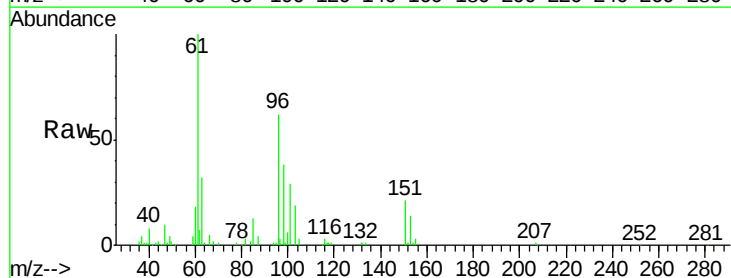
MMDadoda
 2/4/2020 11:21:11 AM

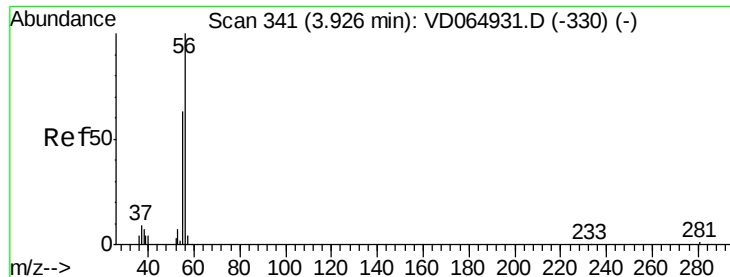


#12

1,1-Dichloroethene
 Concen: 22.247 ug/l
 RT: 4.06 min Scan# 364
 Delta R.T. -0.00 min
 Lab File: VD065046.D
 Acq: 03 Feb 2020 11:24

Tgt Ion	Ratio	Lower	Upper
96	100		
61	160.4	137.0	205.4
98	61.1	52.1	78.1





#13

Acrolein

Concen: 73.307 ug/l

RT: 3.93 min Scan# 341

Delta R.T. -0.00 min

Lab File: VD065046.D

Acq: 03 Feb 2020 11:24

Instrument :

MSVOA_D

ClientSampleId :

VD0203SBS01

Tot Ion: 56 Resp: 23141

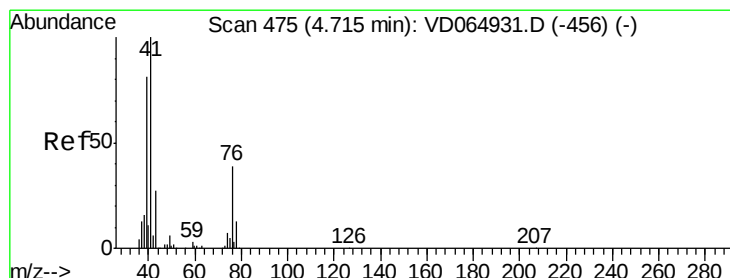
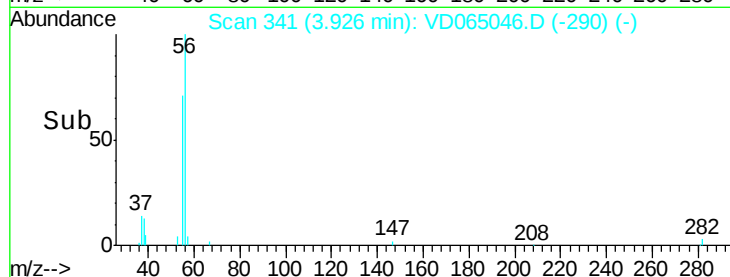
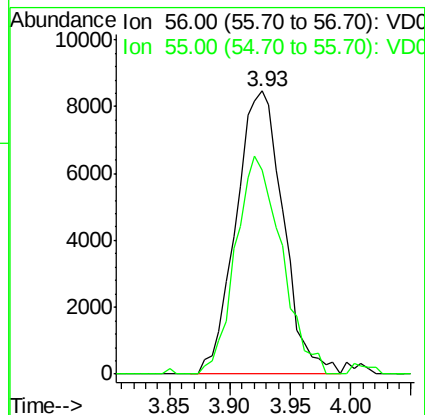
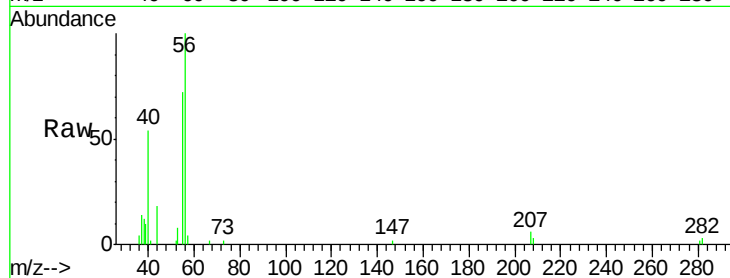
Ion Ratio Lower Upper

56 100

55 74.8 59.7 89.5

Manual Integrations
APPROVED

MMDadoda
2/4/2020 11:21:11 AM



#14

Allyl chloride

Concen: 22.059 ug/l

RT: 4.71 min Scan# 475

Delta R.T. -0.00 min

Lab File: VD065046.D

Acq: 03 Feb 2020 11:24

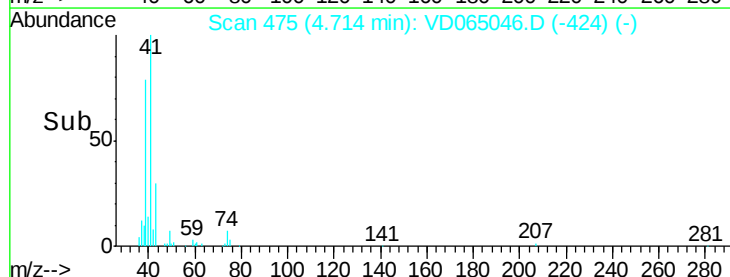
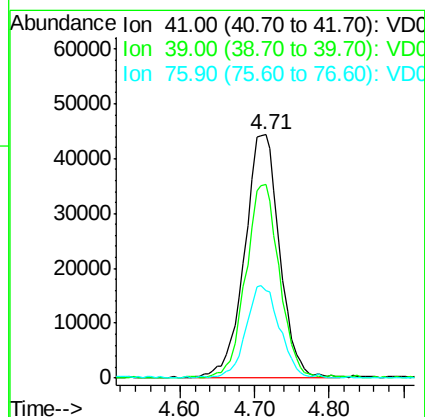
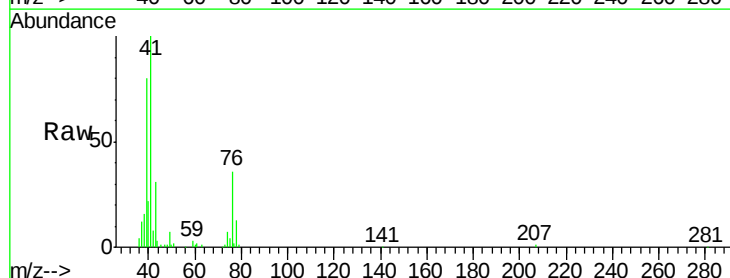
Tgt Ion: 41 Resp: 145488

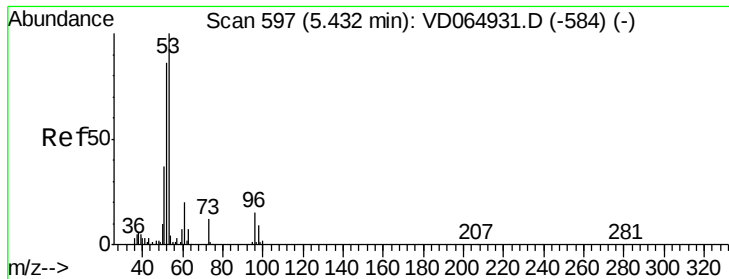
Ion Ratio Lower Upper

41 100

39 75.8 62.0 93.0

76 36.1 29.3 43.9





#15

Acrylonitrile

Concen: 100.875 ug/l

RT: 5.43 min Scan# 597

Delta R.T. -0.00 min

Lab File: VD065046.D

Acq: 03 Feb 2020 11:24

Instrument :

MSVOA_D

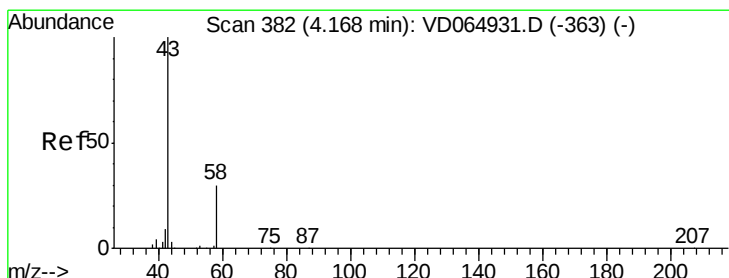
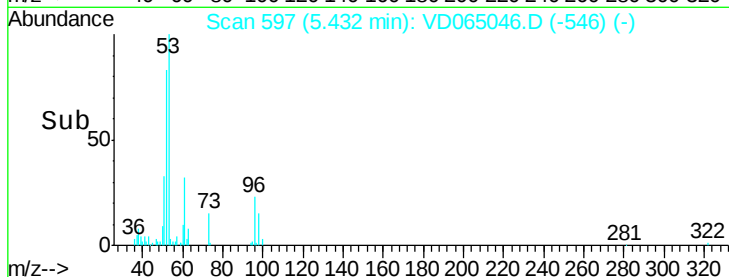
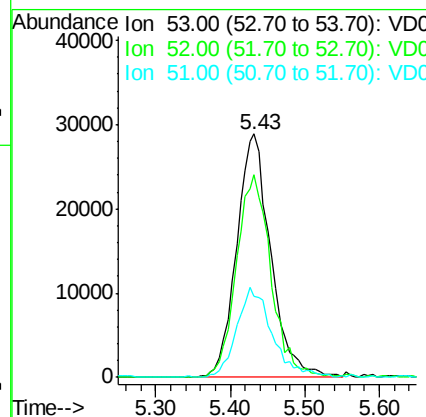
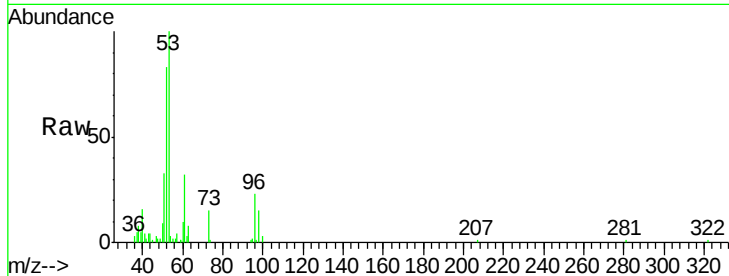
ClientSampleId :

VD0203SBS01

Tot Ion:	53	Resp:	91751
Ion Ratio	Lower	Upper	
53	100		
52	83.9	66.7	100.1
51	38.3	31.1	46.7

Manual Integrations
APPROVED

MMDadoda
2/4/2020 11:21:11 AM



#16

Acetone

Concen: 90.490 ug/l

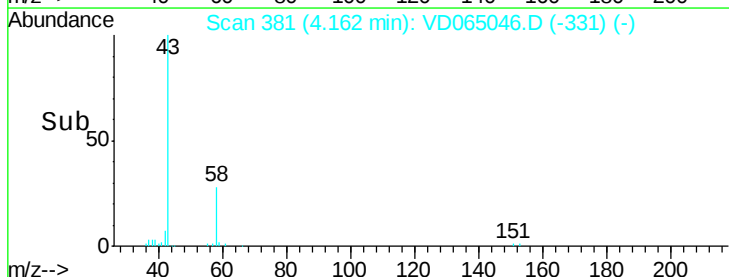
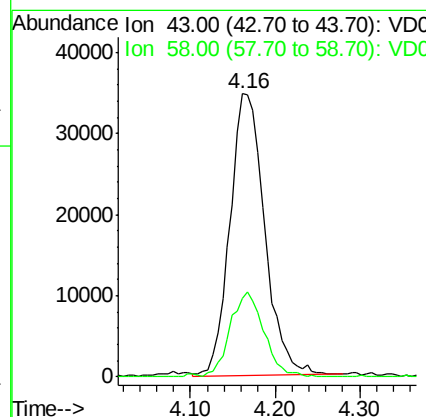
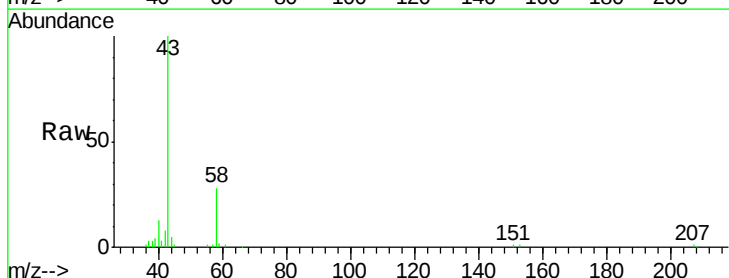
RT: 4.16 min Scan# 381

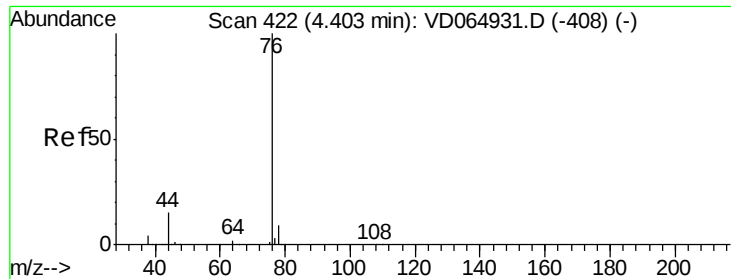
Delta R.T. -0.01 min

Lab File: VD065046.D

Acq: 03 Feb 2020 11:24

Tgt Ion:	43	Resp:	98348
Ion Ratio	Lower	Upper	
43	100		
58	27.9	23.8	35.8





#17

Carbon Disulfide

Concen: 21.218 ug/l

RT: 4.40 min Scan# 422

Delta R.T. -0.00 min

Lab File: VD065046.D

Acq: 03 Feb 2020 11:24

Instrument :

MSVOA_D

ClientSampleId :

VD0203SBS01

Tot Ion: 76 Resp: 288773

Ion Ratio Lower Upper

76 100

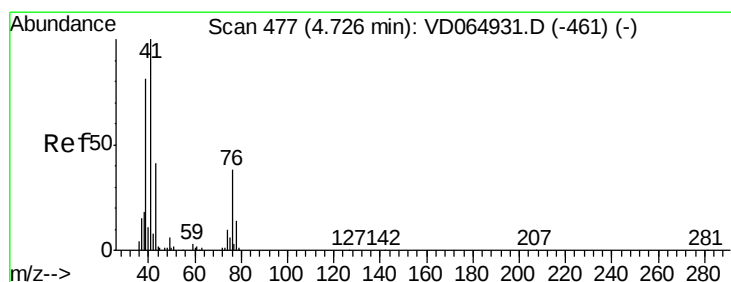
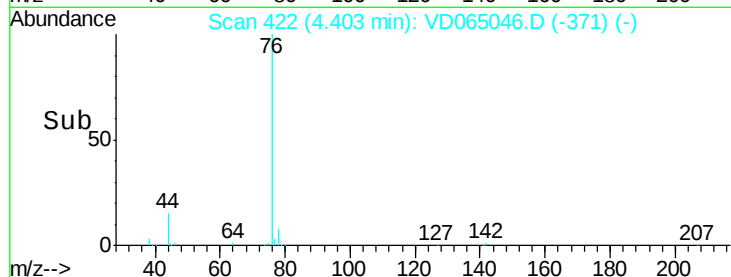
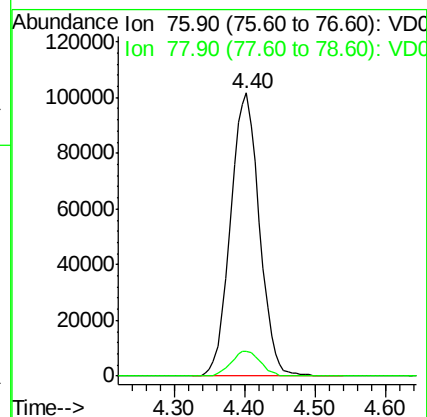
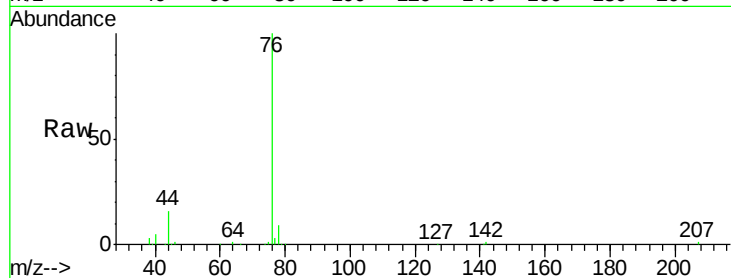
78 8.9 7.1 10.7

Manual Integrations

APPROVED

MMDadoda

2/4/2020 11:21:11 AM



#18

Methyl Acetate

Concen: 22.210 ug/l

RT: 4.72 min Scan# 476

Delta R.T. -0.01 min

Lab File: VD065046.D

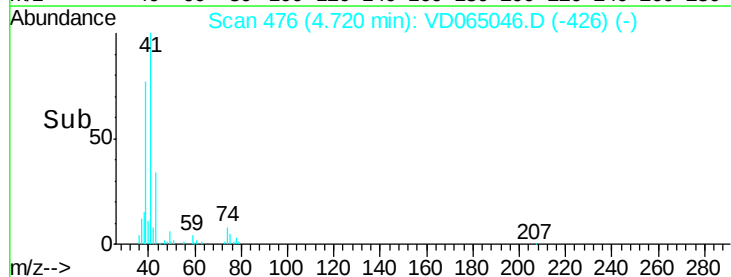
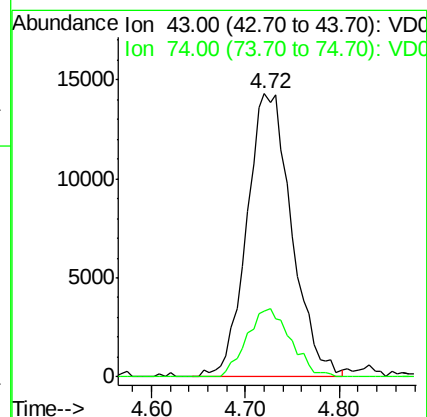
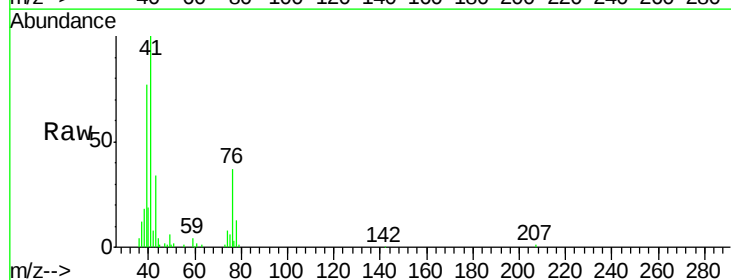
Acq: 03 Feb 2020 11:24

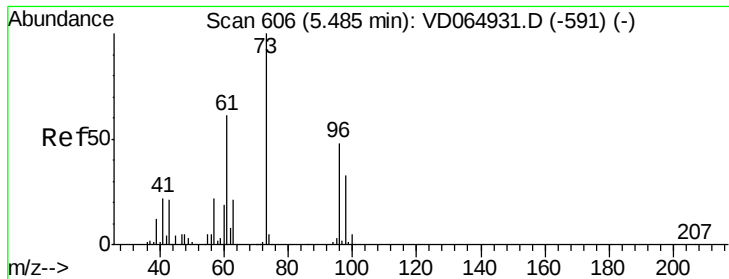
Tgt Ion: 43 Resp: 47400

Ion Ratio Lower Upper

43 100

74 23.4 19.1 28.7





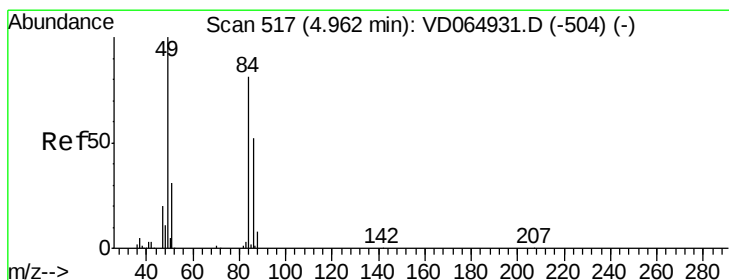
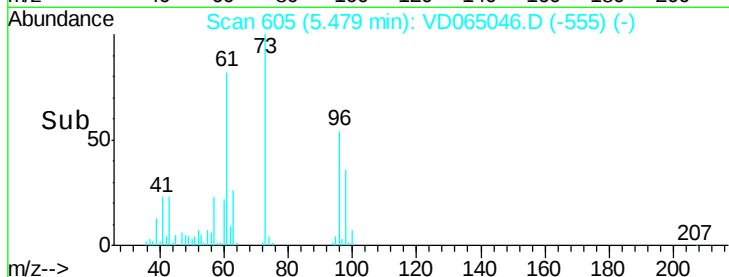
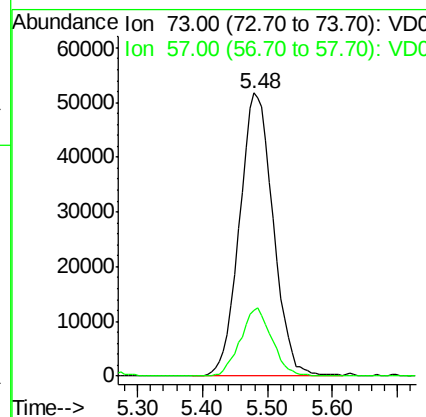
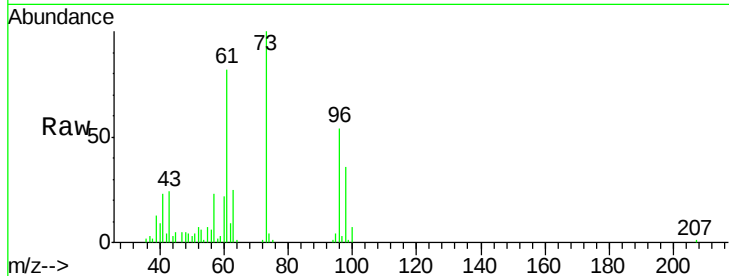
#19
Methyl tert-butyl Ether
Concen: 20.072 ug/l
RT: 5.48 min Scan# 605
Delta R.T. -0.01 min
Lab File: VD065046.D
Acq: 03 Feb 2020 11:24

Instrument :
MSVOA_D
ClientSampleId :
VD0203SBS01

Tot Ion: 73 Resp: 185465
Ion Ratio Lower Upper
73 100
57 23.1 17.9 26.9

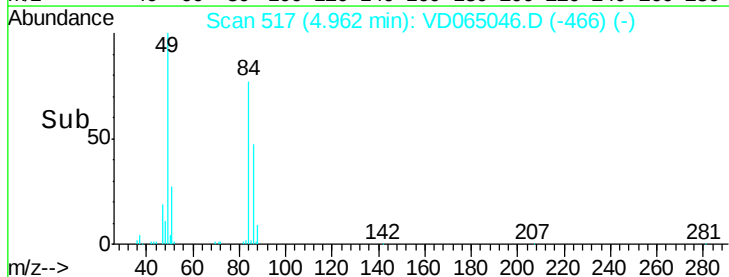
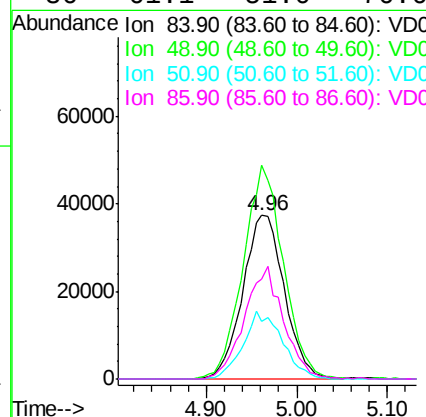
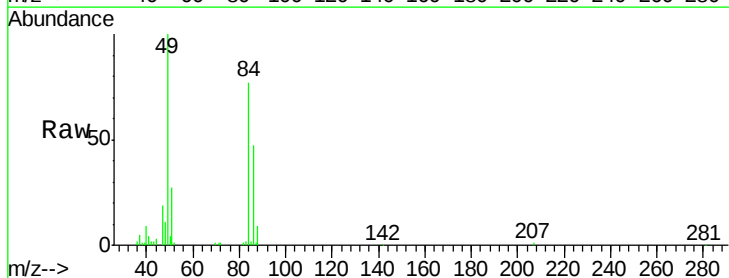
Manual Integrations
APPROVED

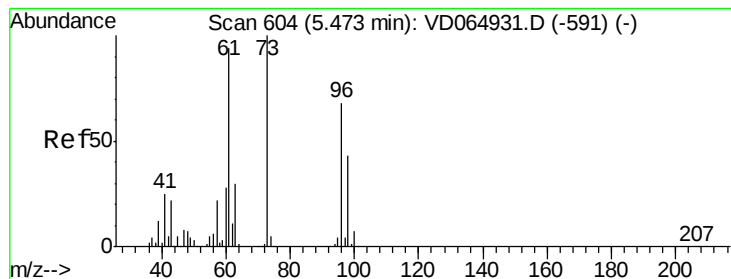
MMDadoda
2/4/2020 11:21:11 AM



#20
Methylene Chloride
Concen: 23.587 ug/l
RT: 4.96 min Scan# 517
Delta R.T. 0.00 min
Lab File: VD065046.D
Acq: 03 Feb 2020 11:24

Tgt Ion: 84 Resp: 119495
Ion Ratio Lower Upper
84 100
49 130.5 98.4 147.6
51 35.4 30.8 46.2
86 61.1 51.0 76.6





#21

trans-1,2-Dichloroethene

Concen: 21.293 ug/l

RT: 5.47 min Scan# 603

Delta R.T. -0.01 min

Lab File: VD065046.D

Acq: 03 Feb 2020 11:24

Instrument :

MSVOA_D

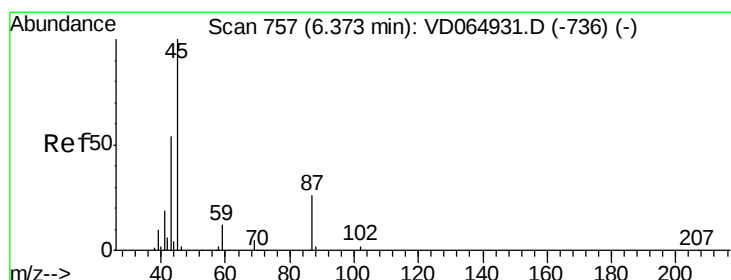
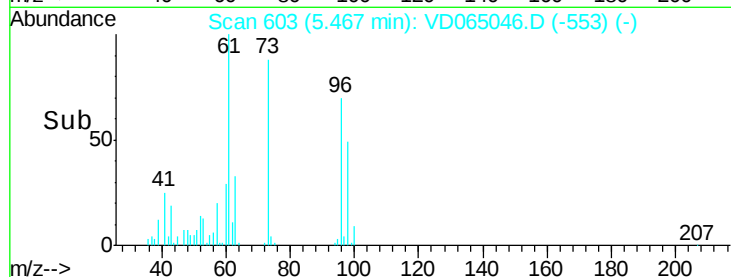
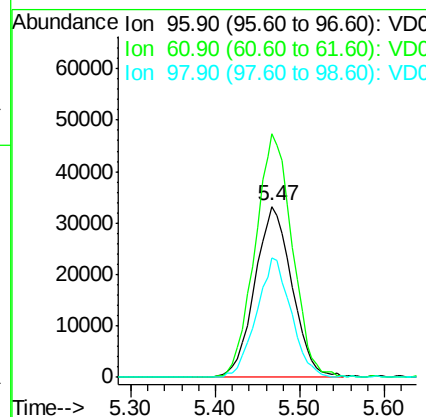
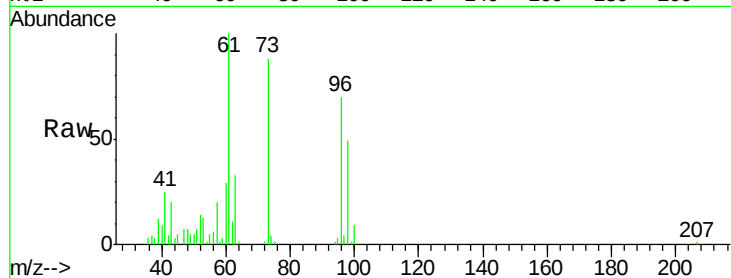
ClientSampleId :

VD0203SBS01

Tot Ion:	96	Resp:	101444
Ion	Ratio	Lower	Upper
96	100		
61	142.6	110.4	165.6
98	69.9	50.5	75.7

Manual Integrations
APPROVED

MMDadoda
2/4/2020 11:21:11 AM



#22

Diisopropyl ether

Concen: 21.561 ug/l

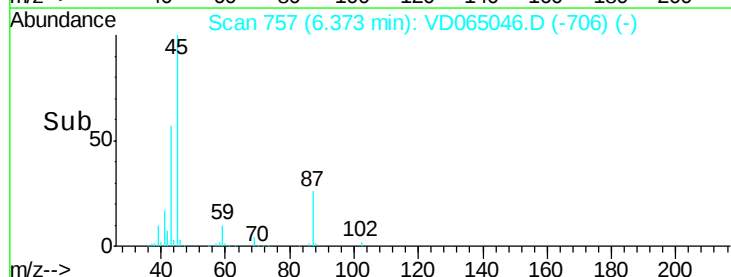
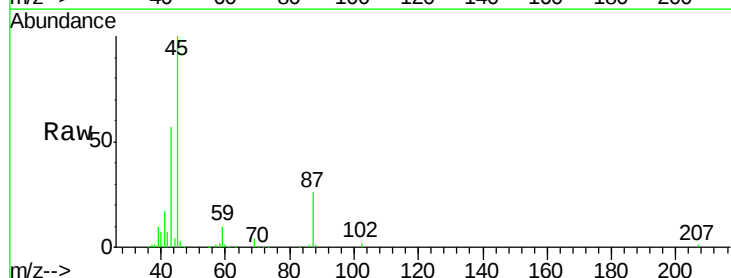
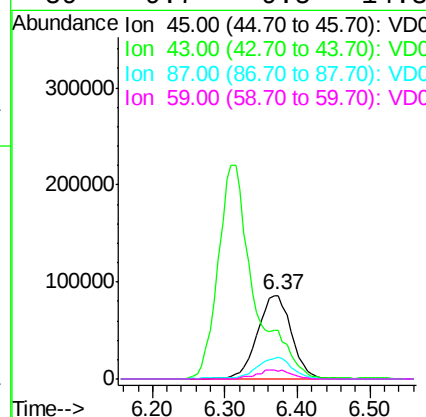
RT: 6.37 min Scan# 757

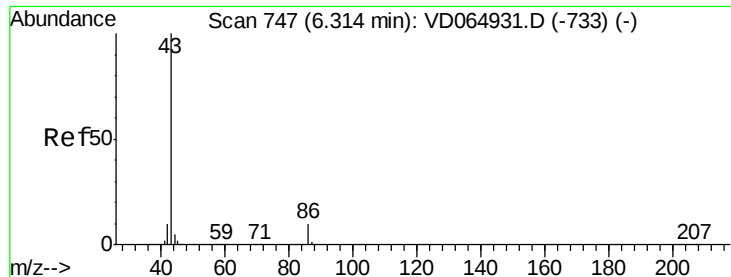
Delta R.T. -0.00 min

Lab File: VD065046.D

Acq: 03 Feb 2020 11:24

Tgt Ion:	45	Resp:	283391
Ion	Ratio	Lower	Upper
45	100		
43	55.7	43.1	64.7
87	26.2	21.4	32.2
59	9.7	9.5	14.3





#23

Vinyl Acetate

Concen: 98.532 ug/l

RT: 6.31 min Scan# 746

Delta R.T. -0.01 min

Lab File: VD065046.D

Acq: 03 Feb 2020 11:24

Instrument :

MSVOA_D

ClientSampleID :

VD0203SBS01

Tot Ion: 43 Resp: 758260

Ion Ratio Lower Upper

43 100

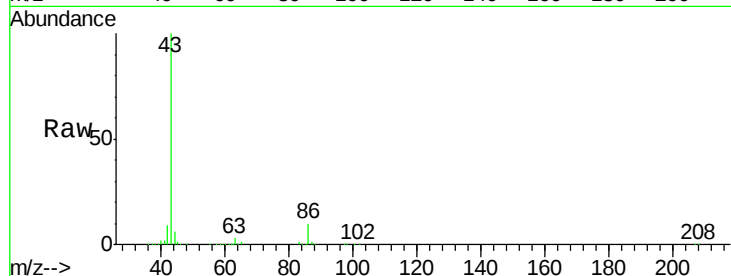
86 10.3 8.3 12.5

Manual Integrations

APPROVED

MMDadoda

2/4/2020 11:21:11 AM



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 86.00 (85.70 to 86.70): VDC

6.31

250000

200000

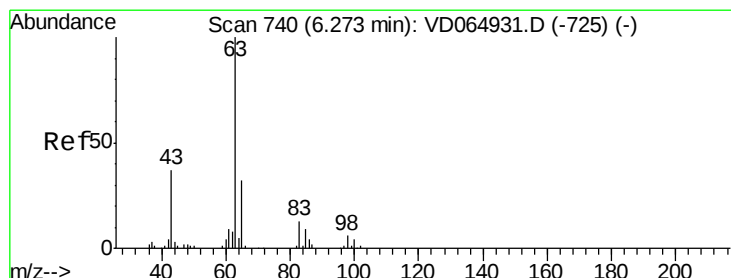
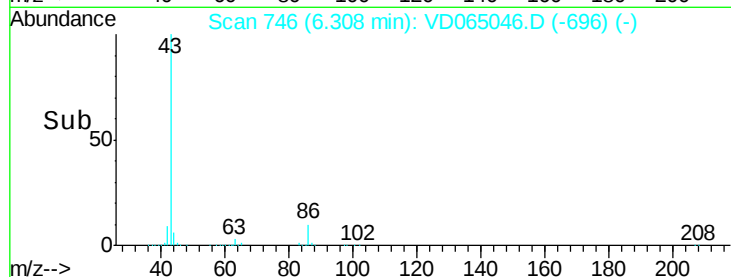
150000

100000

50000

0

Time-->



#24

1,1-Dichloroethane

Concen: 22.073 ug/l

RT: 6.26 min Scan# 738

Delta R.T. -0.01 min

Lab File: VD065046.D

Acq: 03 Feb 2020 11:24

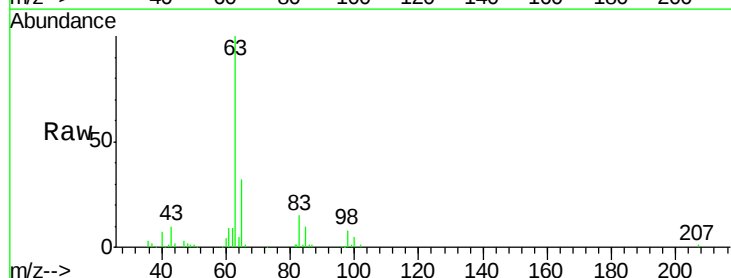
Tgt Ion: 63 Resp: 178134

Ion Ratio Lower Upper

63 100

98 7.9 3.1 9.3

100 5.4 2.3 6.8



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

6.26

80000

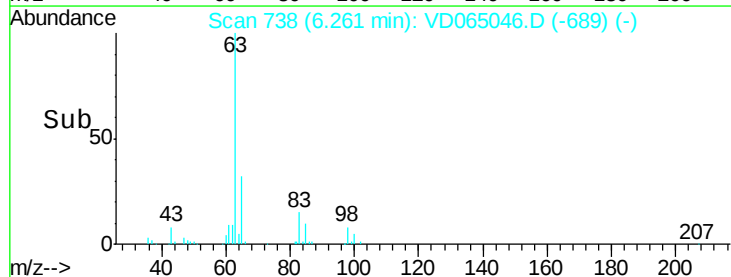
60000

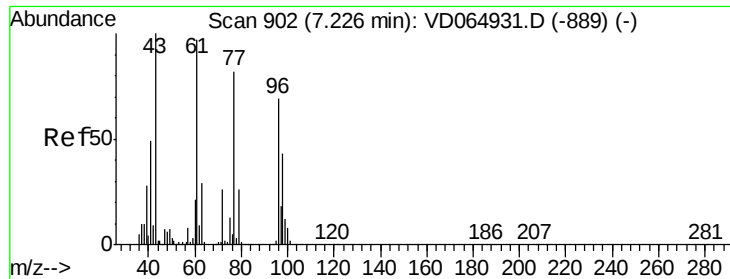
40000

20000

0

Time-->





#25

2-Butanone

Concen: 96.869 ug/l

RT: 7.22 min Scan# 901

Delta R.T. -0.01 min

Lab File: VD065046.D

Acq: 03 Feb 2020 11:24

Instrument :

MSVOA_D

ClientSampleId :

VD0203SBS01

Tot Ion: 43 Resp: 119254

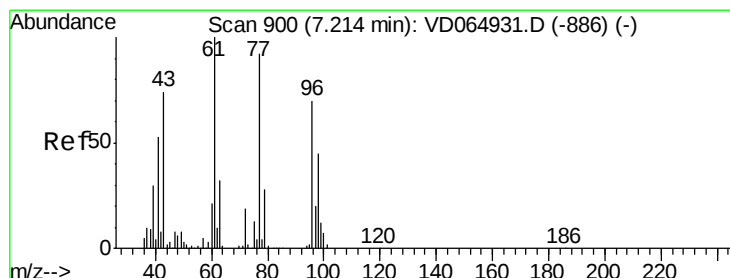
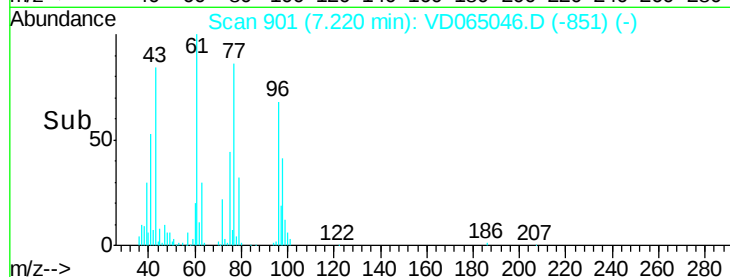
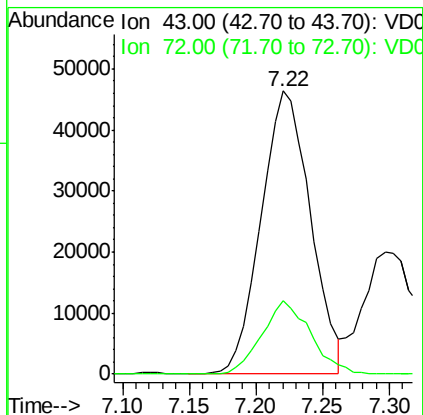
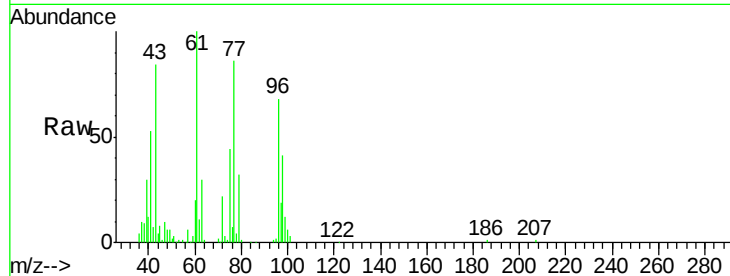
Ion Ratio Lower Upper

43 100

72 26.0 20.6 31.0

Manual Integrations
APPROVED

MMDadoda
2/4/2020 11:21:11 AM



#26

2,2-Dichloropropane

Concen: 22.700 ug/l

RT: 7.21 min Scan# 899

Delta R.T. -0.01 min

Lab File: VD065046.D

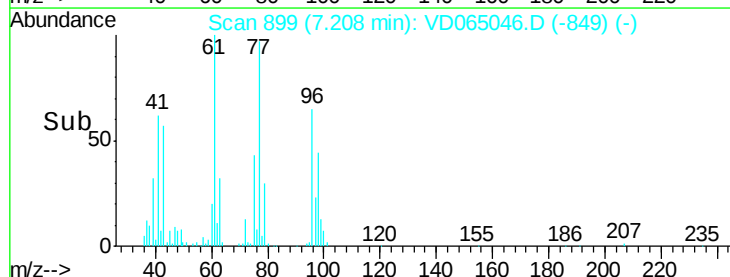
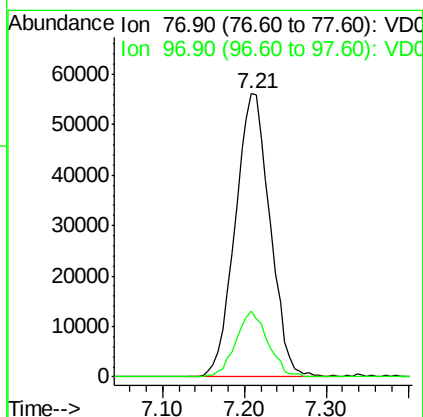
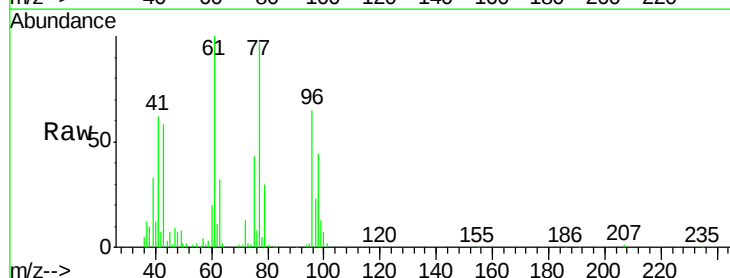
Acq: 03 Feb 2020 11:24

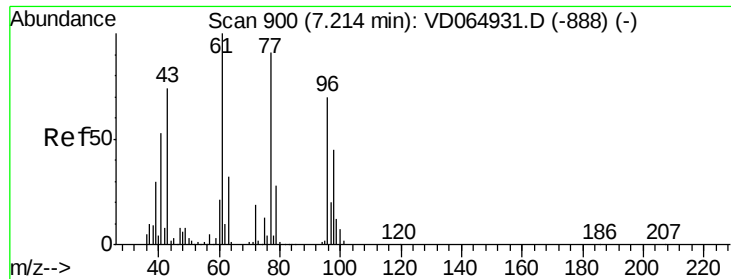
Tgt Ion: 77 Resp: 166165

Ion Ratio Lower Upper

77 100

97 21.5 11.4 34.2





#27

cis-1,2-Dichloroethene

Concen: 21.419 ug/l

RT: 7.21 min Scan# 900

Delta R.T. -0.00 min

Lab File: VD065046.D

Acq: 03 Feb 2020 11:24

Instrument :

MSVOA_D

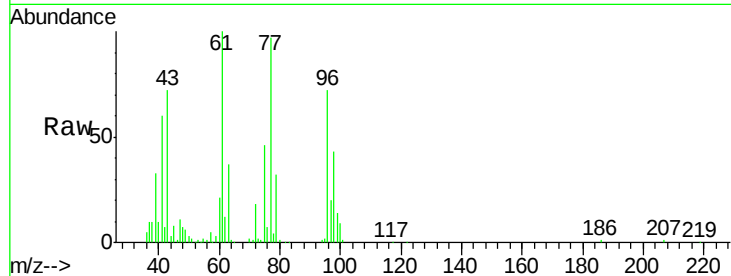
ClientSampleId :

VD0203SBS01

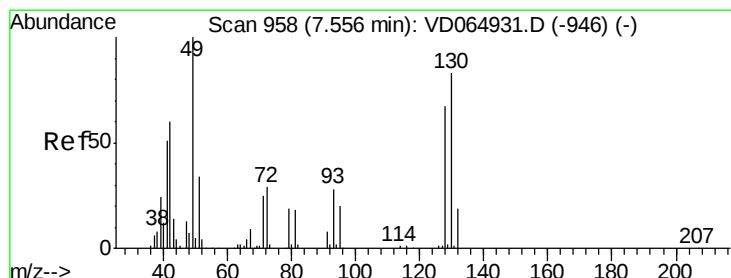
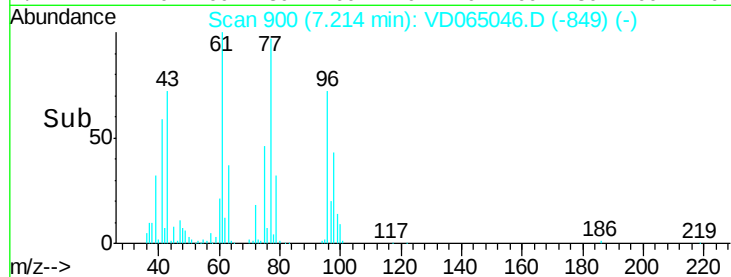
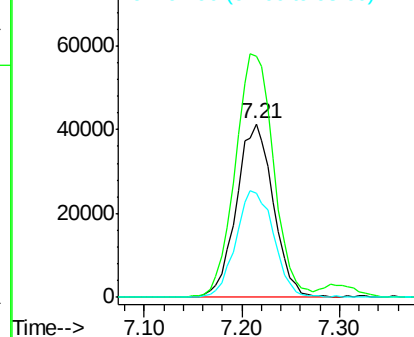
Tot Ion	Ion	Ratio	Resp	Lower	Upper
96	100				
61	146.1	0.0	292.8		
98	63.3	0.0	130.0		

Manual Integrations
APPROVED

MMDadoda
2/4/2020 11:21:11 AM



Abundance Ion 95.90 (95.60 to 96.60): VDC
Ion 60.90 (60.60 to 61.60): VDC
Ion 97.90 (97.60 to 98.60): VDC



#28

Bromochloromethane

Concen: 17.694 ug/l

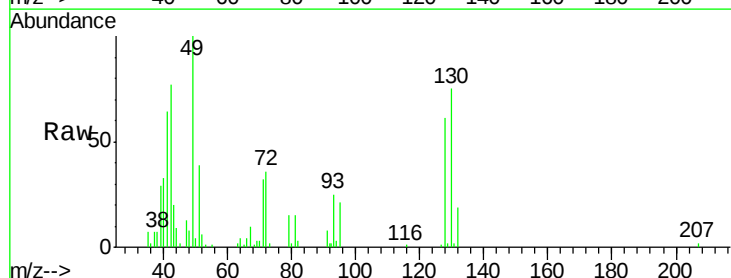
RT: 7.56 min Scan# 958

Delta R.T. -0.00 min

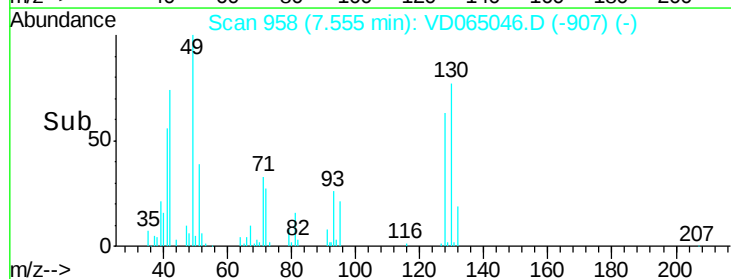
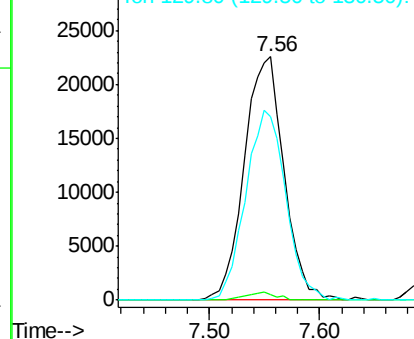
Lab File: VD065046.D

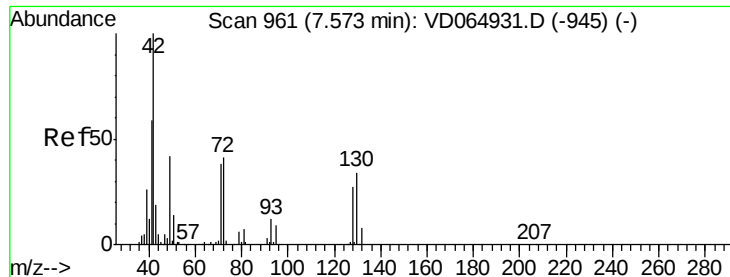
Acq: 03 Feb 2020 11:24

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
49	100				
129	2.4	0.0	4.4		
130	78.6	63.8	95.8		



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





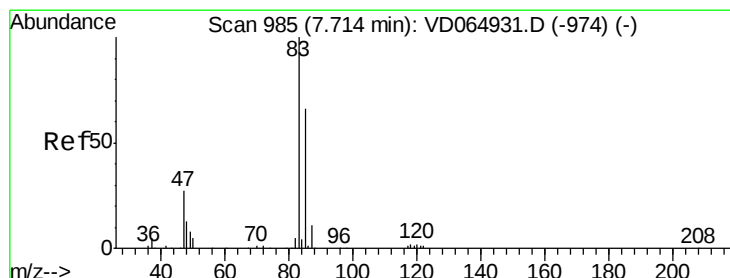
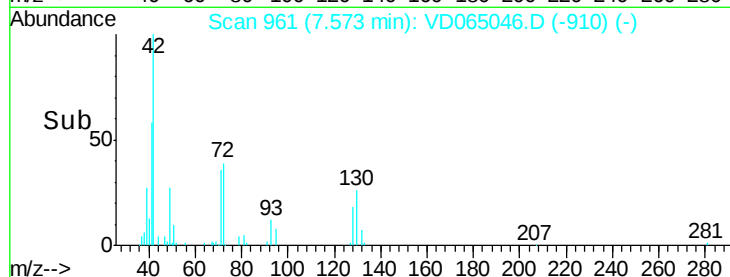
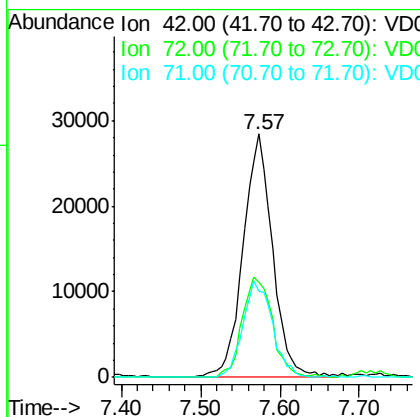
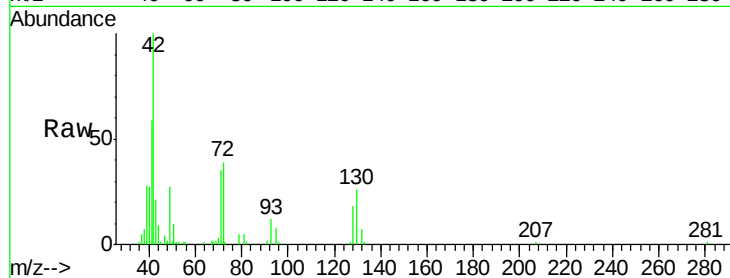
#29
Tetrahydrofuran
Concen: 96.940 ug/l
RT: 7.57 min Scan# 961
Delta R.T. -0.00 min
Lab File: VD065046.D
Acq: 03 Feb 2020 11:24

Instrument :
MSVOA_D
ClientSampleId :
VD0203SBS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	42.5	34.0	51.0
71	39.2	31.5	47.3

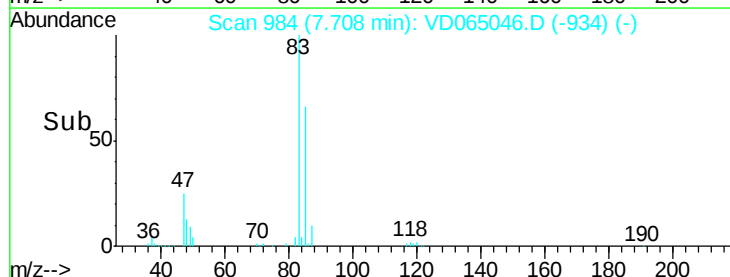
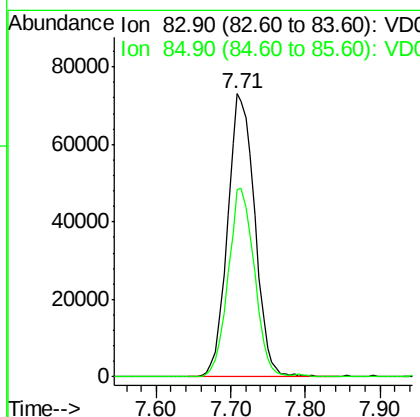
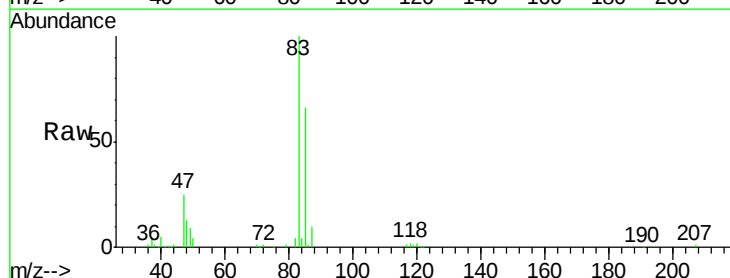
Manual Integrations
APPROVED

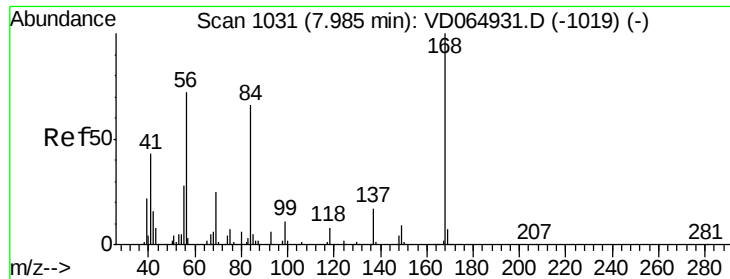
MMDadoda
2/4/2020 11:21:11 AM



#30
Chloroform
Concen: 22.136 ug/l
RT: 7.71 min Scan# 984
Delta R.T. -0.01 min
Lab File: VD065046.D
Acq: 03 Feb 2020 11:24

Tgt Ion	Ratio	Lower	Upper
83	100		
85	66.1	52.4	78.6





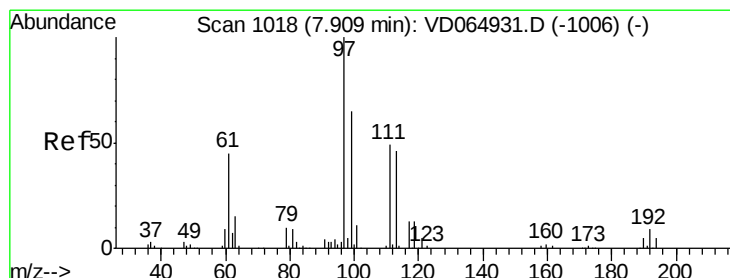
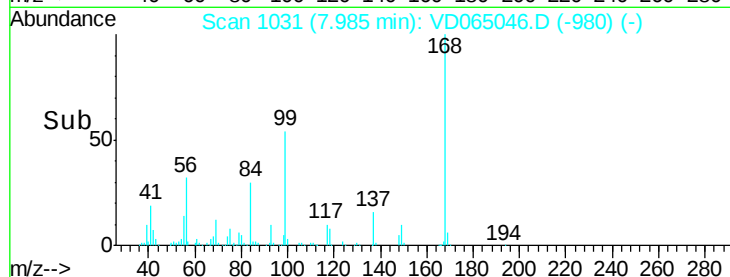
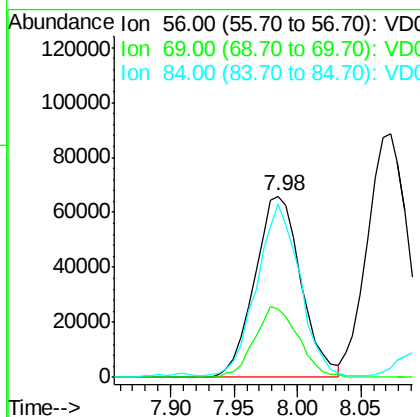
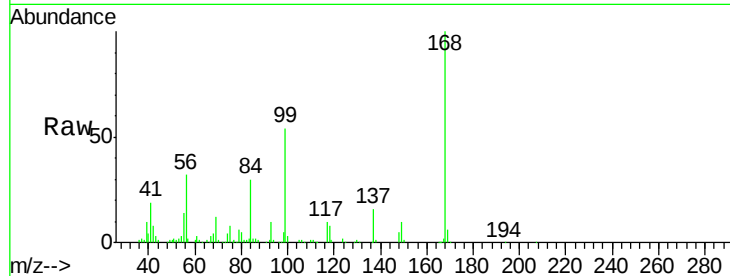
#31
Cyclohexane
Concen: 21.175 ug/l
RT: 7.98 min Scan# 1031
Delta R.T. -0.00 min
Lab File: VD065046.D
Acq: 03 Feb 2020 11:24

Instrument :
MSVOA_D
ClientSampleId :
VD0203SBS01

Tot Ion	Ratio	Lower	Upper
56	100		
69	38.0	27.9	41.9
84	93.7	72.8	109.2

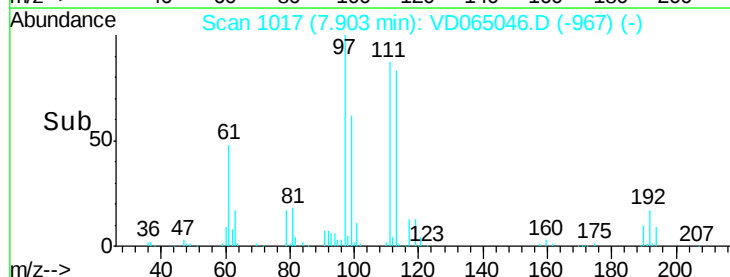
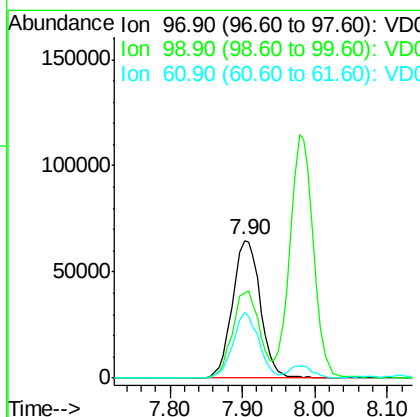
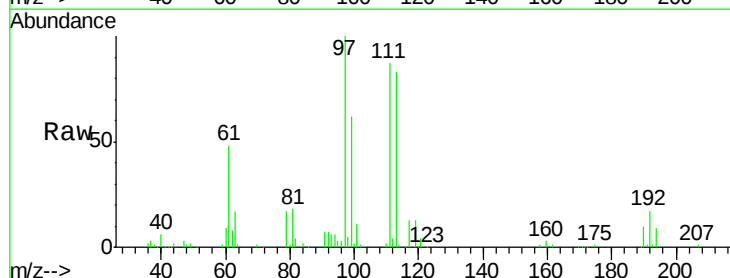
Manual Integrations
APPROVED

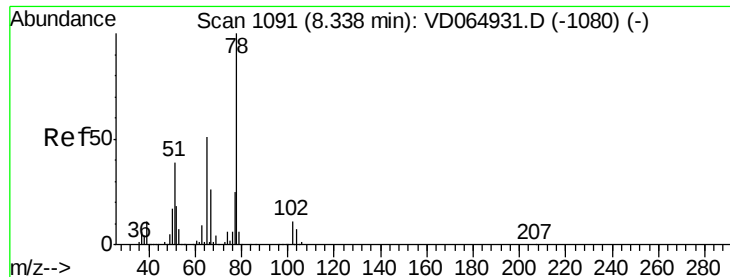
MMDadoda
2/4/2020 11:21:11 AM



#32
1,1,1-Trichloroethane
Concen: 22.293 ug/l
RT: 7.90 min Scan# 1017
Delta R.T. -0.01 min
Lab File: VD065046.D
Acq: 03 Feb 2020 11:24

Tgt Ion	Ratio	Lower	Upper
97	100		
99	60.9	50.6	76.0
61	44.1	35.7	53.5





#33

1,2-Dichloroethane-d4

Concen: 51.073 ug/l

RT: 8.33 min Scan# 1090

Delta R.T. -0.01 min

Lab File: VD065046.D

Acq: 03 Feb 2020 11:24

Instrument :

MSVOA_D

ClientSampleId :

VD0203SBS01

Tot Ion: 65 Resp: 232731

Ion Ratio Lower Upper

65 100

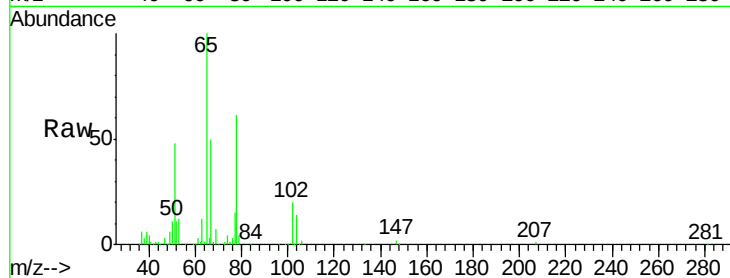
67 51.4 0.0 103.6

Manual Integrations

APPROVED

MMDadoda

2/4/2020 11:21:11 AM



Abundance Ion 64.90 (64.60 to 65.60): VDC

Ion 66.90 (66.60 to 67.60): VDC

8.33

100000

80000

60000

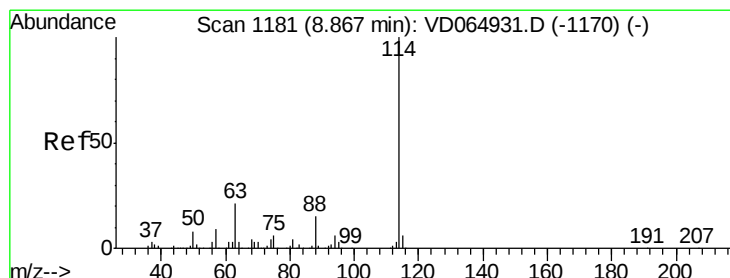
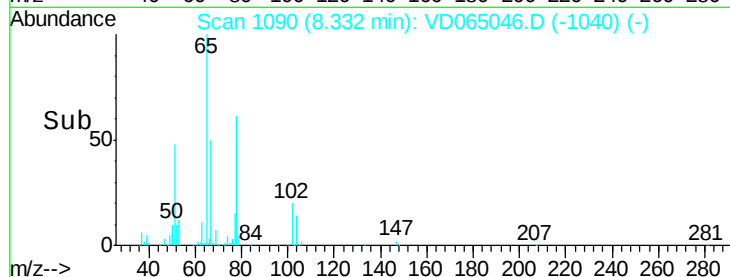
40000

20000

0

8.25 8.30 8.35 8.40

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.87 min Scan# 1181

Delta R.T. -0.00 min

Lab File: VD065046.D

Acq: 03 Feb 2020 11:24

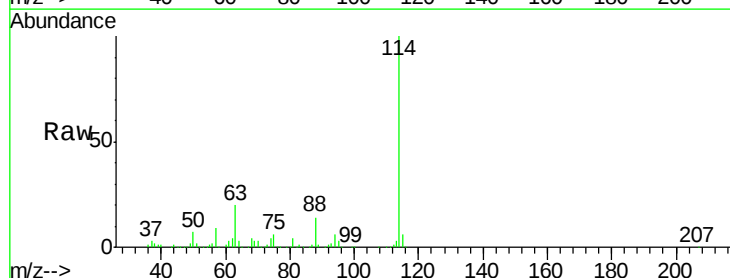
Tgt Ion: 114 Resp: 706988

Ion Ratio Lower Upper

114 100

63 20.3 0.0 42.0

88 14.2 0.0 29.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VDC

Ion 87.90 (87.60 to 88.60): VDC

8.87

500000

400000

300000

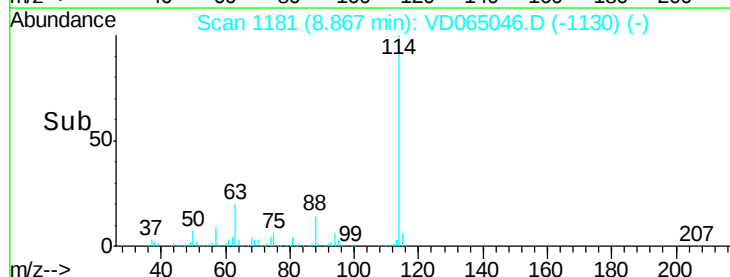
200000

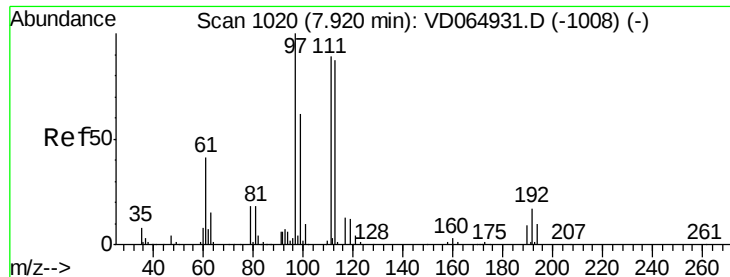
100000

0

8.80 8.90 9.00

Time-->





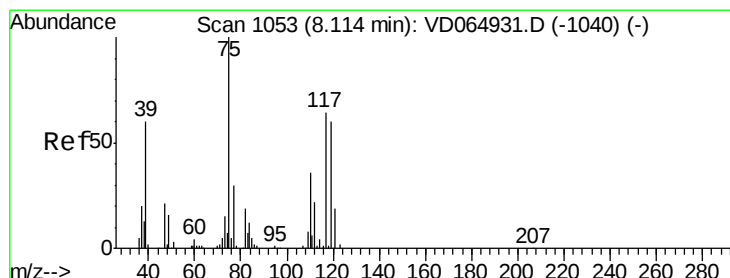
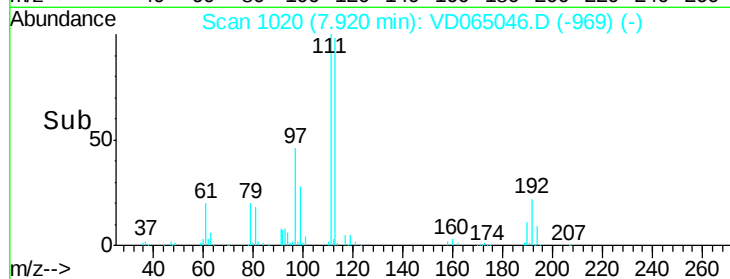
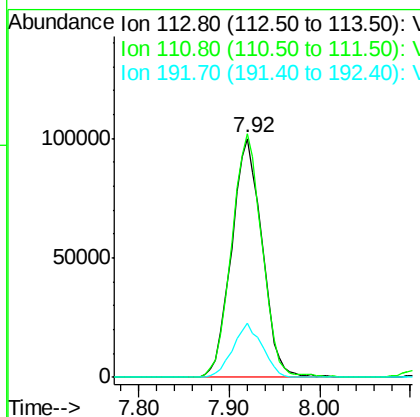
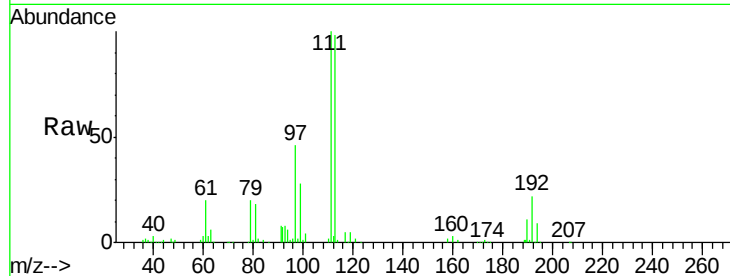
#35
 Dibromofluoromethane
 Concen: 52.805 ug/l
 RT: 7.92 min Scan# 1020
 Delta R.T. -0.00 min
 Lab File: VD065046.D
 Acq: 03 Feb 2020 11:24

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0203SBS01

Tot Ion	Ratio	Resp	Lower	Upper
113	100	234603		
111	101.4	82.4	123.6	
192	21.8	16.9	25.3	

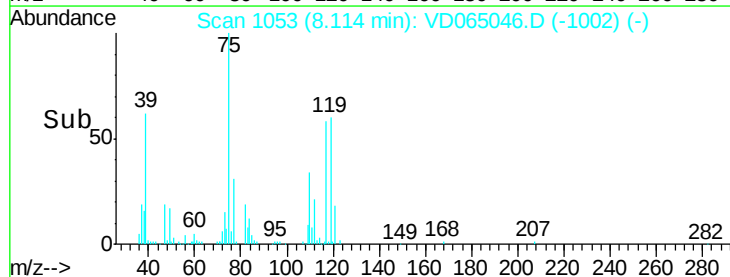
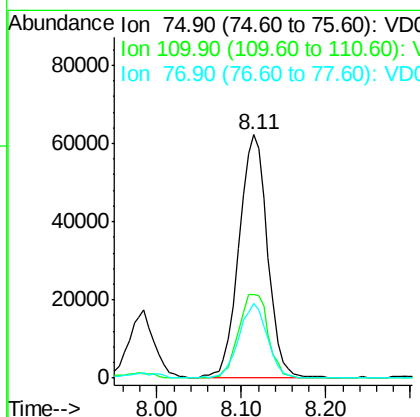
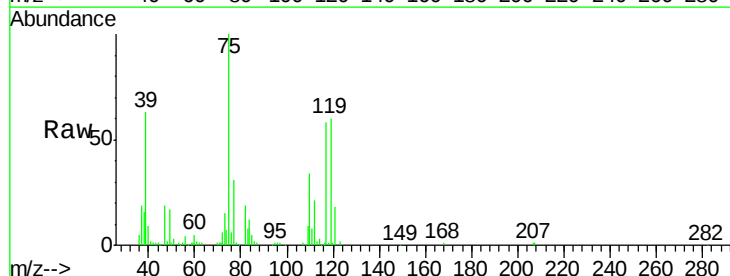
Manual Integrations
 APPROVED

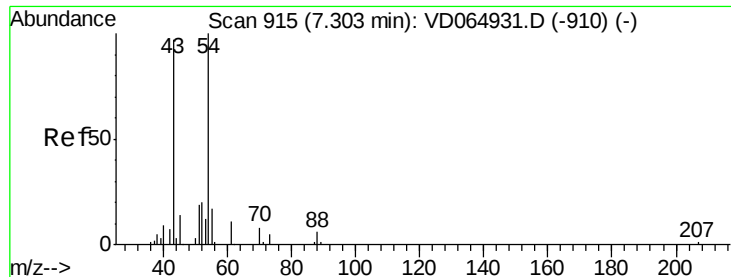
MMDadoda
 2/4/2020 11:21:11 AM



#36
 1,1-Dichloropropene
 Concen: 21.327 ug/l
 RT: 8.11 min Scan# 1053
 Delta R.T. -0.00 min
 Lab File: VD065046.D
 Acq: 03 Feb 2020 11:24

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	145393		
110	35.8	17.3	52.0	
77	30.6	24.7	37.1	





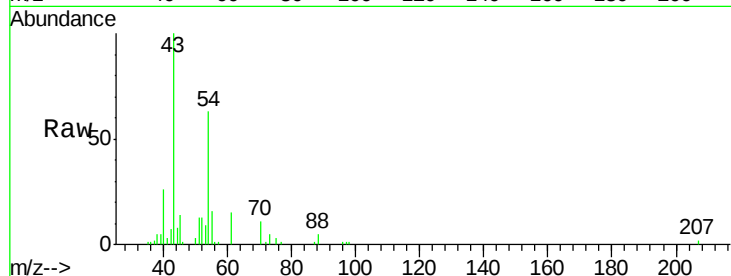
#37
Ethyl Acetate
Concen: 19.521 ug/l
RT: 7.30 min Scan# 914
Delta R.T. -0.01 min
Lab File: VD065046.D
Acq: 03 Feb 2020 11:24

Instrument :
MSVOA_D
ClientSampleId :
VD0203SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	13.9	11.0	16.4
70	10.4	7.5	11.3

Manual Integrations
APPROVED

MMDadoda
2/4/2020 11:21:11 AM

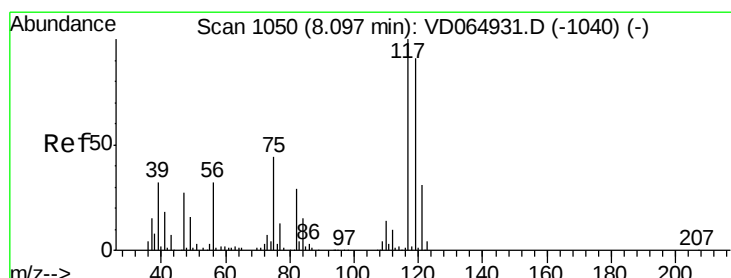
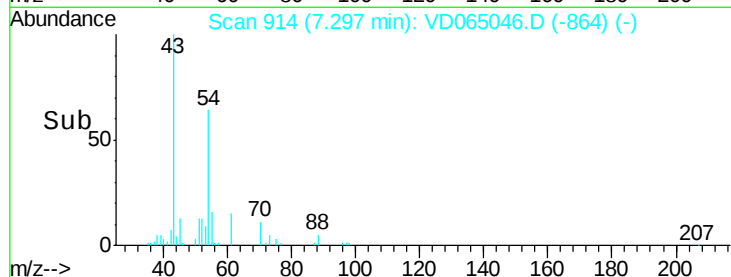
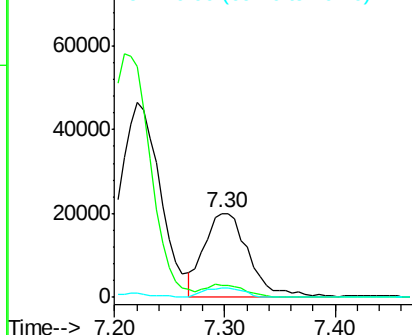


Abundance

Ion 43.00 (42.70 to 43.70): VDC

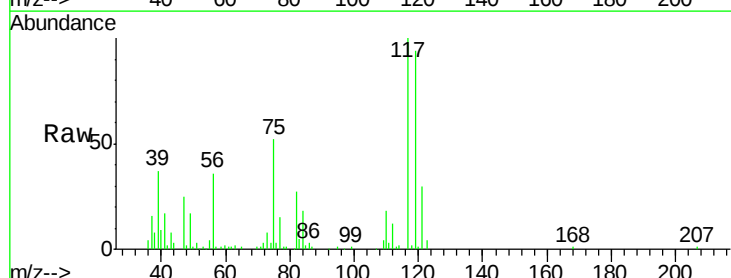
Ion 60.90 (60.60 to 61.60): VDC

Ion 70.00 (69.70 to 70.70): VDC



#38
Carbon Tetrachloride
Concen: 21.559 ug/l
RT: 8.10 min Scan# 1050
Delta R.T. -0.00 min
Lab File: VD065046.D
Acq: 03 Feb 2020 11:24

Tgt Ion	Ratio	Lower	Upper
117	100		
119	94.4	73.2	109.8
121	29.8	24.4	36.6

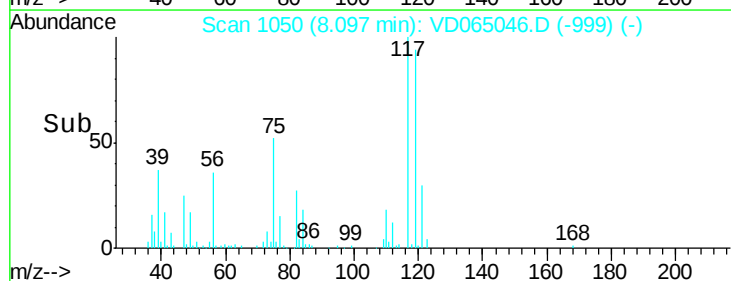
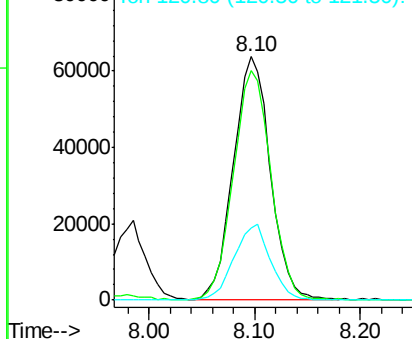


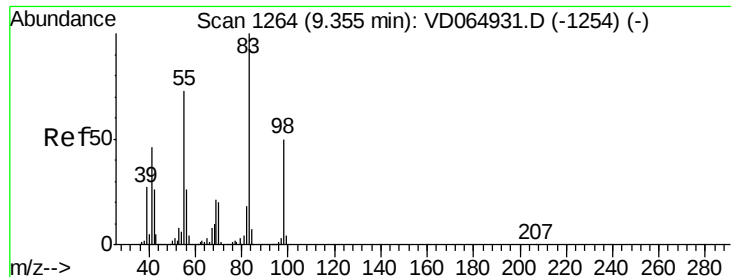
Abundance

Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





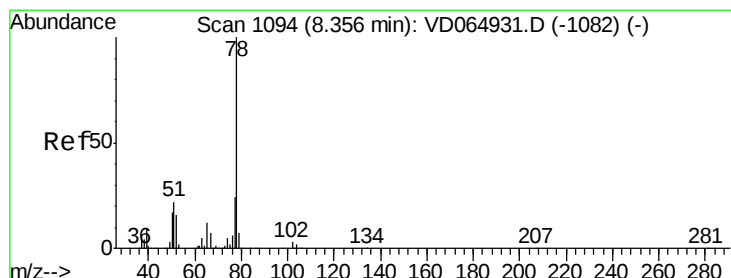
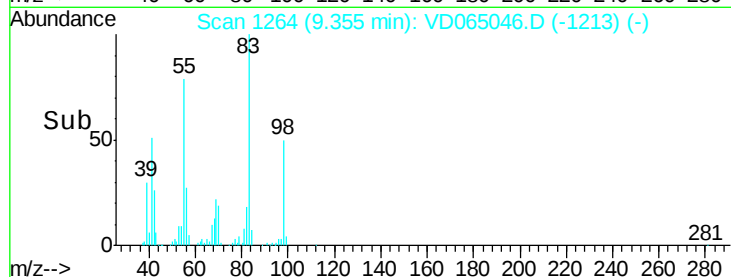
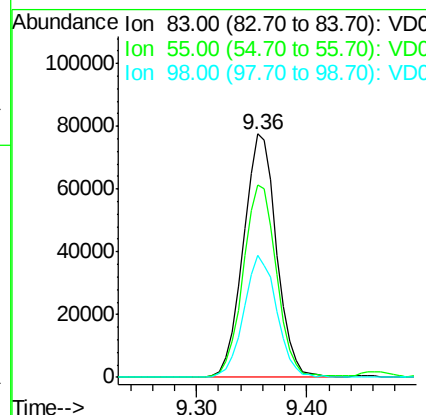
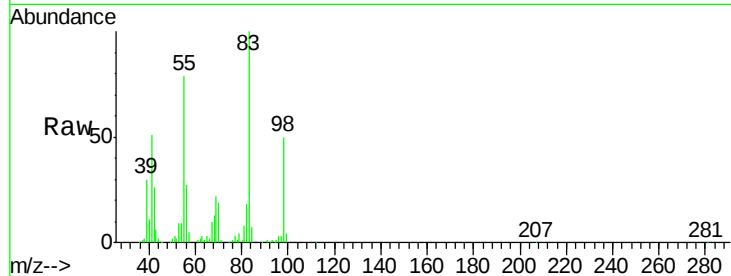
#39
Methvlcvclohexane
Concen: 20.581 ug/l
RT: 9.36 min Scan# 1264
Delta R.T. -0.00 min
Lab File: VD065046.D
Acq: 03 Feb 2020 11:24

Instrument :
MSVOA_D
ClientSampleId :
VD0203SBS01

Tot Ion	Ratio	Lower	Upper
83	100		
55	78.8	58.7	88.1
98	50.3	40.2	60.2

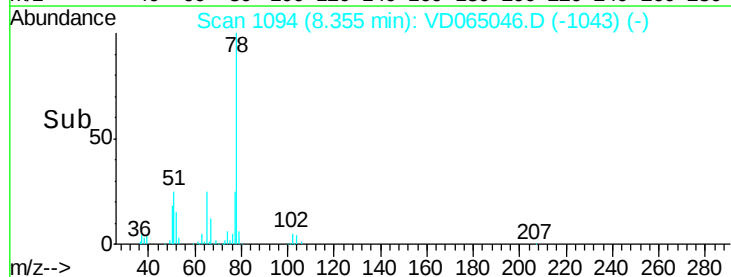
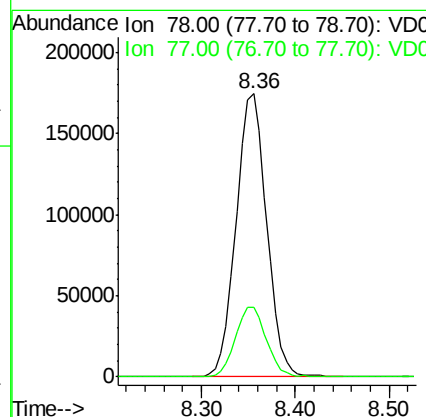
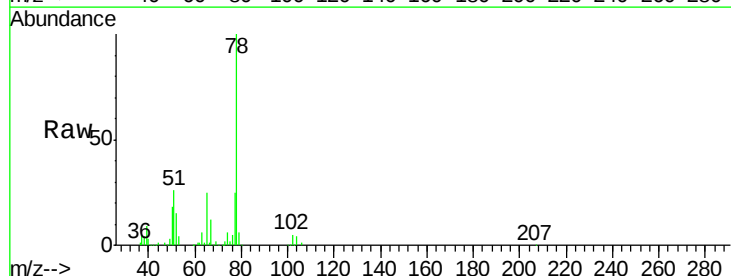
Manual Integrations
APPROVED

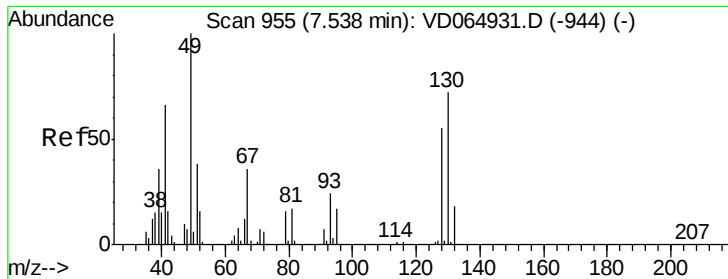
MMDadoda
2/4/2020 11:21:11 AM



#40
Benzene
Concen: 21.051 ug/l
RT: 8.36 min Scan# 1094
Delta R.T. -0.00 min
Lab File: VD065046.D
Acq: 03 Feb 2020 11:24

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.7	19.2	28.8





#41

Methacrylonitrile

Concen: 17.465 ug/l m

RT: 7.53 min Scan# 954

Delta R.T. -0.01 min

Lab File: VD065046.D

Acq: 03 Feb 2020 11:24

Instrument :

MSVOA_D

ClientSampleId :

VD0203SBS01

Tot Ion: 41 Resp: 26493

Ion Ratio Lower Upper

41 100

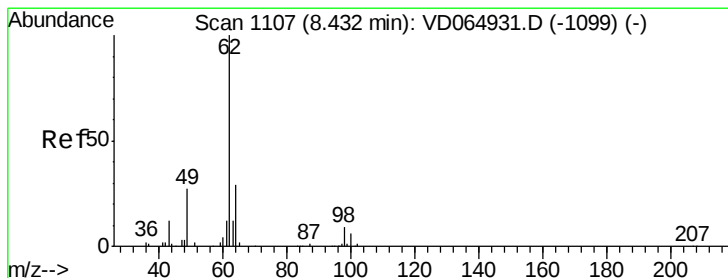
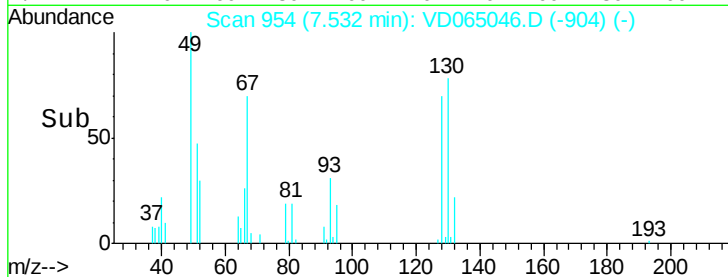
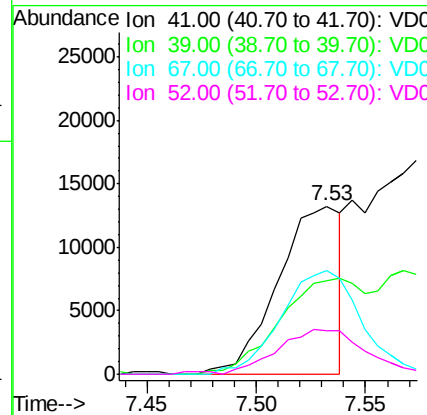
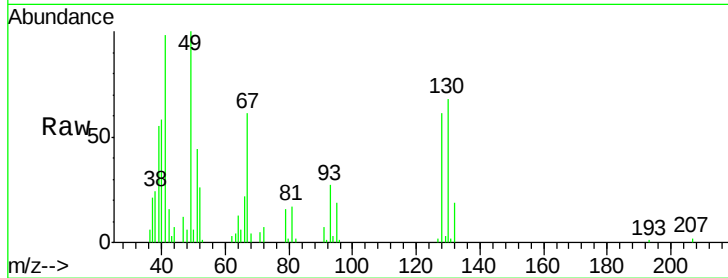
39 69.2 49.3 73.9

67 0.0 51.0 76.6#

52 0.0 22.3 33.5#

Manual Integrations
APPROVED

MMDadoda
2/4/2020 11:21:11 AM



#42

1,2-Dichloroethane

Concen: 20.760 ug/l

RT: 8.43 min Scan# 1106

Delta R.T. -0.01 min

Lab File: VD065046.D

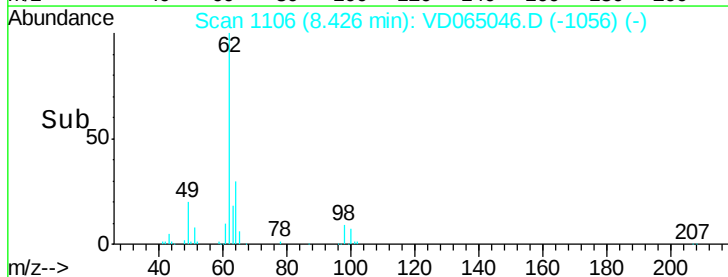
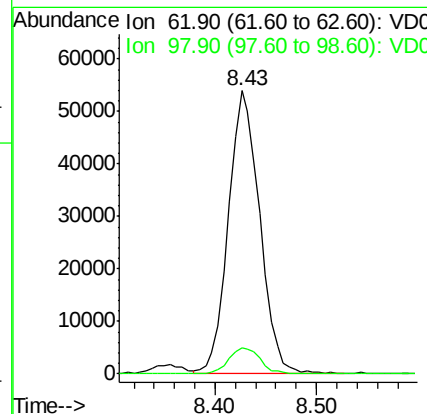
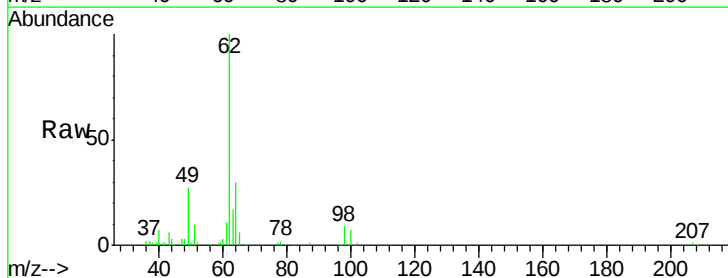
Acq: 03 Feb 2020 11:24

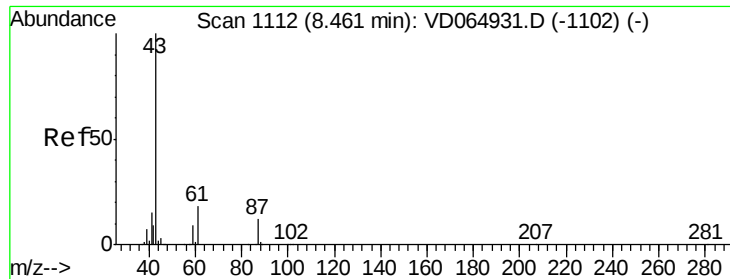
Tgt Ion: 62 Resp: 116110

Ion Ratio Lower Upper

62 100

98 9.1 0.0 17.8





#43

Isopropyl Acetate

Concen: 19.106 ug/l

RT: 8.46 min Scan# 1111

Delta R.T. -0.01 min

Lab File: VD065046.D

Acq: 03 Feb 2020 11:24

Instrument :

MSVOA_D

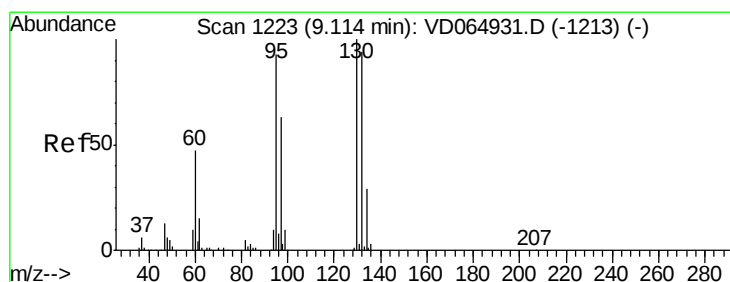
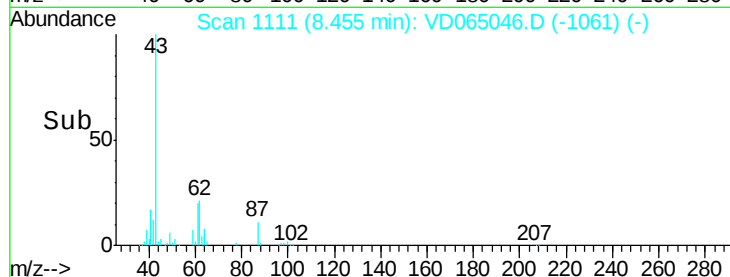
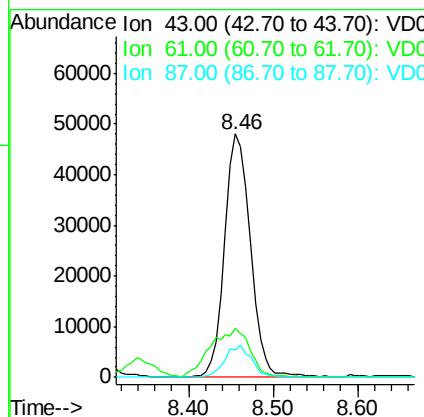
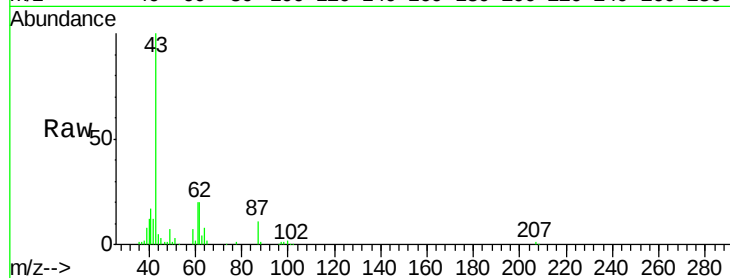
ClientSampleId :

VD0203SBS01

Tot Ion:	43	Resp:	102196
Ion	Ratio	Lower	Upper
43	100		
61	30.5	23.8	35.6
87	13.3	10.3	15.5

Manual Integrations
APPROVED

MMDadoda
2/4/2020 11:21:11 AM



#44

Trichloroethene

Concen: 21.156 ug/l

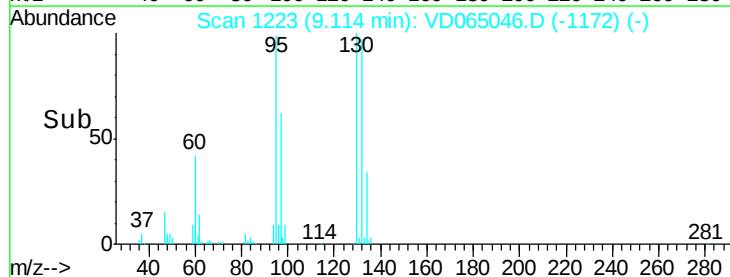
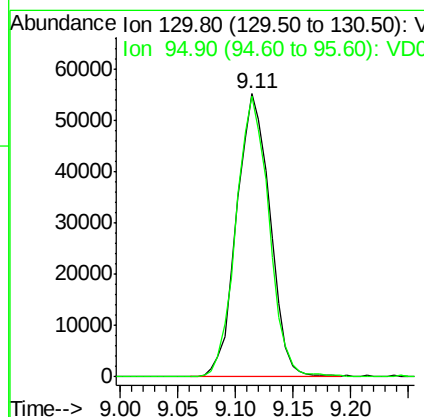
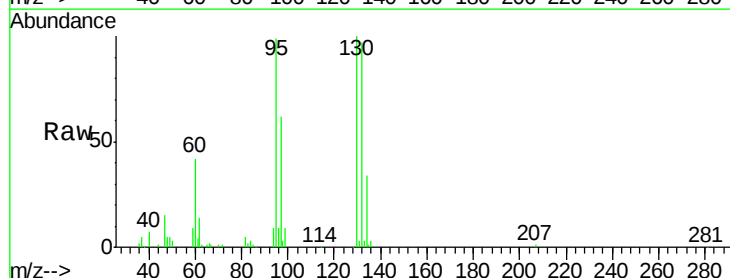
RT: 9.11 min Scan# 1223

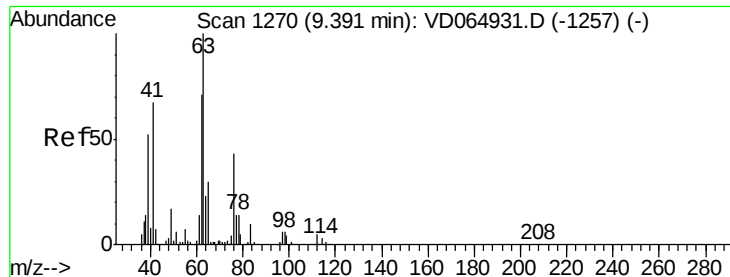
Delta R.T. -0.00 min

Lab File: VD065046.D

Acq: 03 Feb 2020 11:24

Tgt Ion:	130	Resp:	111171
Ion	Ratio	Lower	Upper
130	100		
95	99.1	0.0	185.8





#45

1,2-Dichloropropane

Concen: 21.019 ug/l

RT: 9.39 min Scan# 1270

Delta R.T. -0.00 min

Lab File: VD065046.D

Acq: 03 Feb 2020 11:24

Instrument :

MSVOA_D

ClientSampleId :

VD0203SBS01

Tot Ion: 63 Resp: 95672

Ion Ratio Lower Upper

63 100

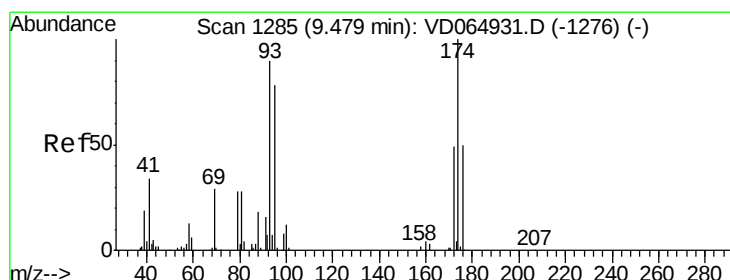
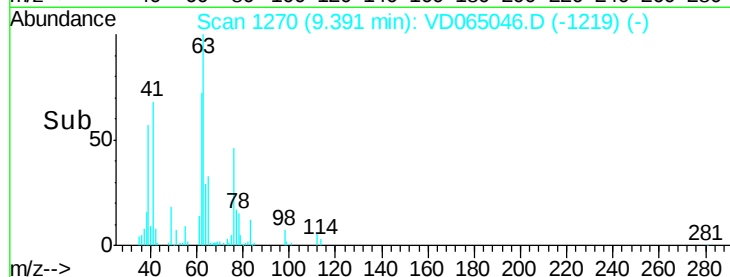
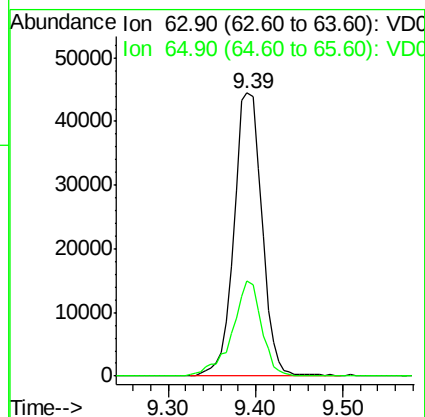
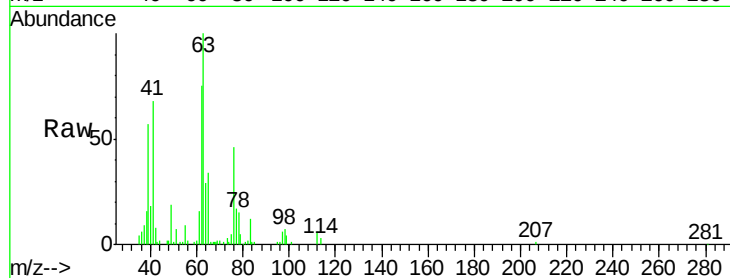
65 33.6 24.3 36.5

Manual Integrations

APPROVED

MMDadoda

2/4/2020 11:21:11 AM



#46

Dibromomethane

Concen: 20.618 ug/l

RT: 9.48 min Scan# 1285

Delta R.T. -0.00 min

Lab File: VD065046.D

Acq: 03 Feb 2020 11:24

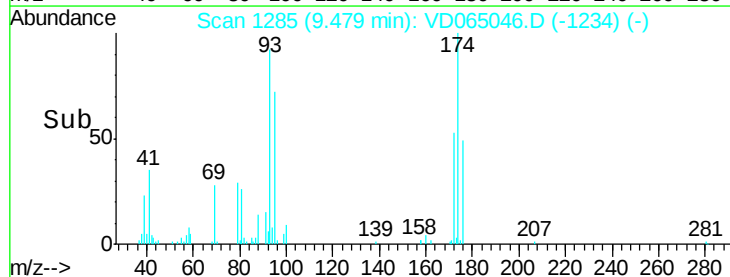
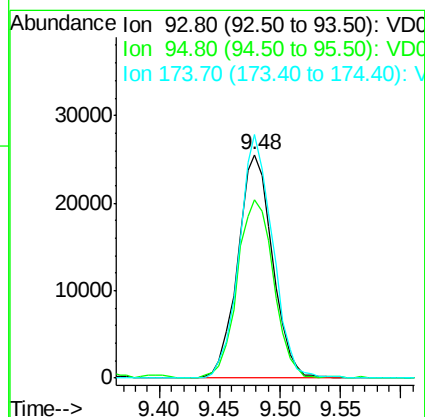
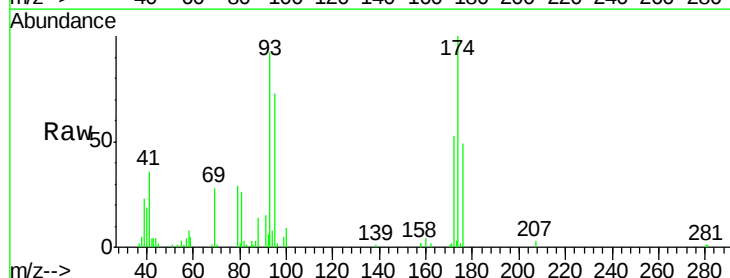
Tgt Ion: 93 Resp: 51237

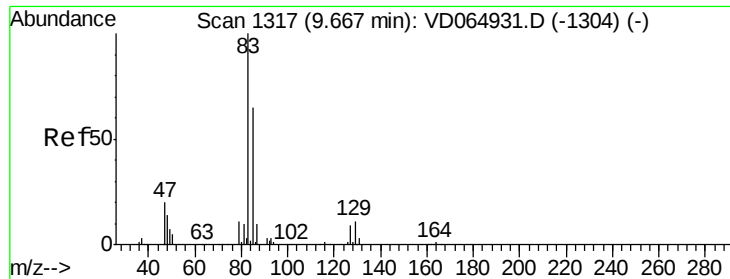
Ion Ratio Lower Upper

93 100

95 83.2 67.5 101.3

174 104.8 88.4 132.6





#47

Bromodichloromethane

Concen: 21.561 ug/l

RT: 9.67 min Scan# 1317

Delta R.T. -0.00 min

Lab File: VD065046.D

Acq: 03 Feb 2020 11:24

Instrument :

MSVOA_D

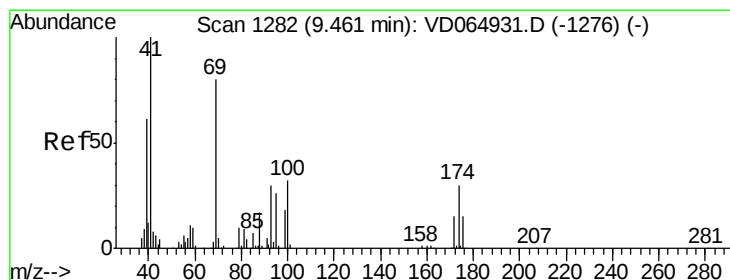
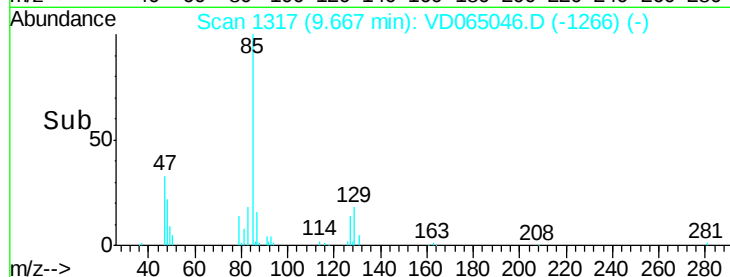
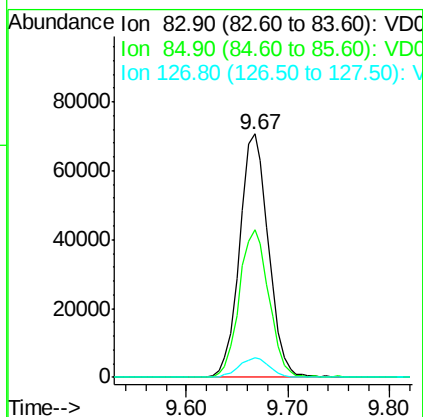
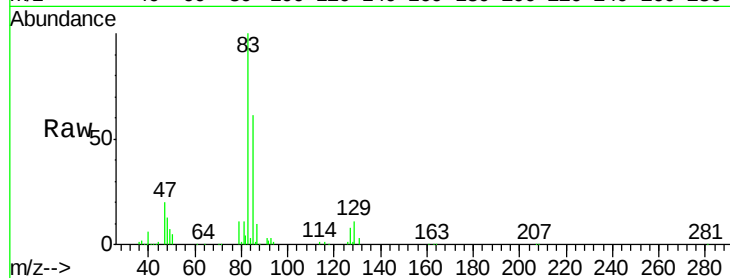
ClientSampleId :

VD0203SBS01

Tot Ion:	83	Resp:	139424
Ion	Ratio	Lower	Upper
83	100		
85	60.6	52.0	78.0
127	8.2	7.3	10.9

Manual Integrations
APPROVED

MMDadoda
2/4/2020 11:21:11 AM



#48

Methyl methacrylate

Concen: 19.805 ug/l

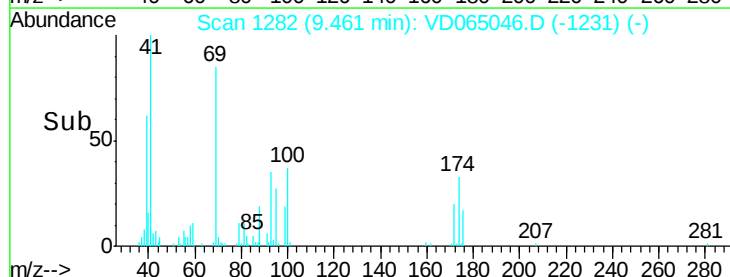
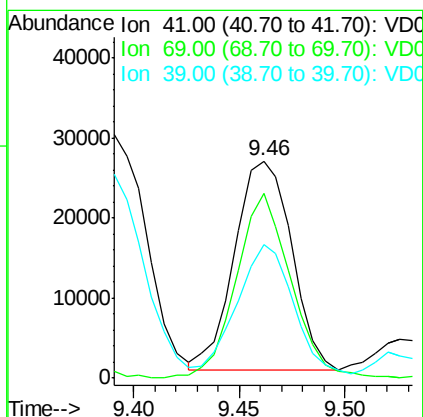
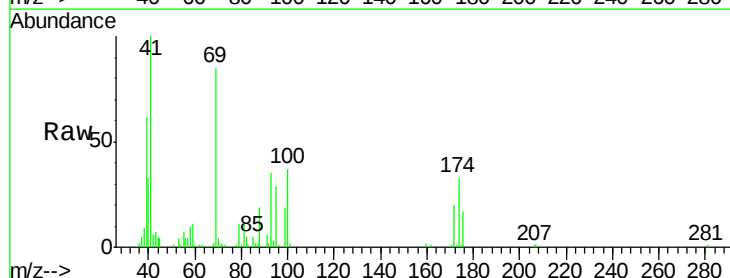
RT: 9.46 min Scan# 1282

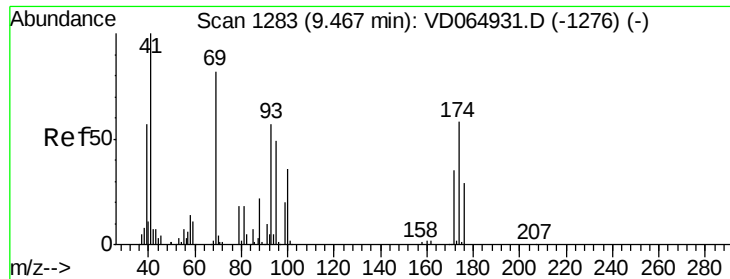
Delta R.T. -0.00 min

Lab File: VD065046.D

Acq: 03 Feb 2020 11:24

Tgt Ion:	41	Resp:	48751
Ion	Ratio	Lower	Upper
41	100		
69	85.3	65.8	98.8
39	60.8	49.4	74.0





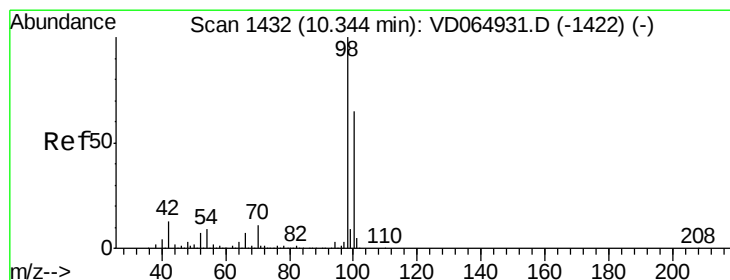
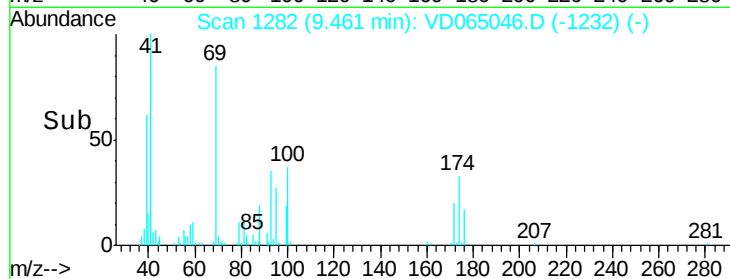
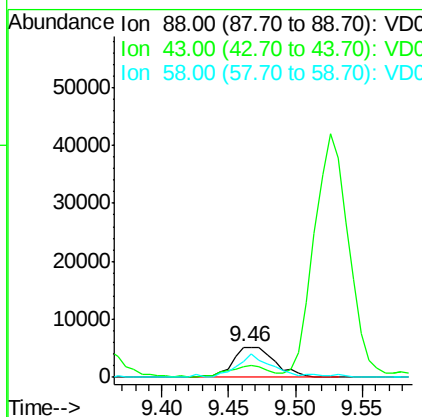
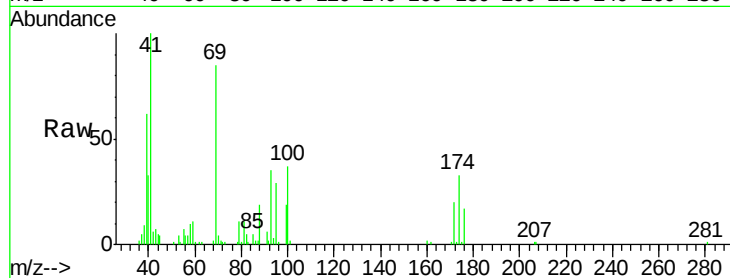
#49
1,4-Dioxane
Concen: 396.479 ug/l
RT: 9.46 min Scan# 1282
Delta R.T. -0.01 min
Lab File: VD065046.D
Acq: 03 Feb 2020 11:24

Instrument :
MSVOA_D
ClientSampleId :
VD0203SBS01

Tot Ion	Ratio	Lower	Upper
88	100		
43	32.8	26.2	39.4
58	65.3	50.3	75.5

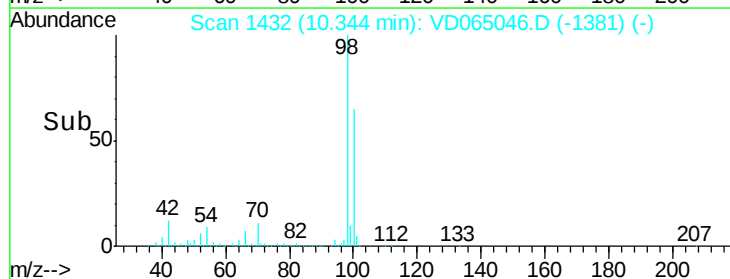
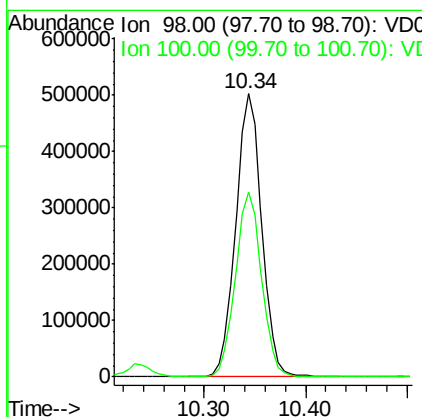
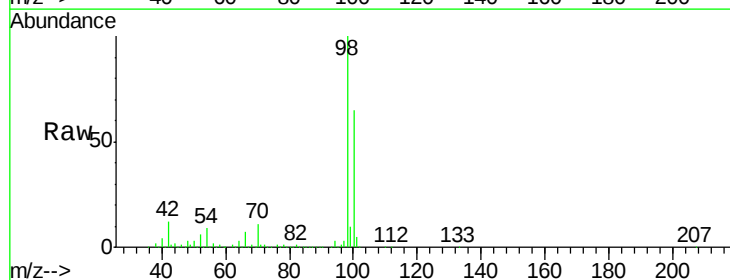
Manual Integrations
APPROVED

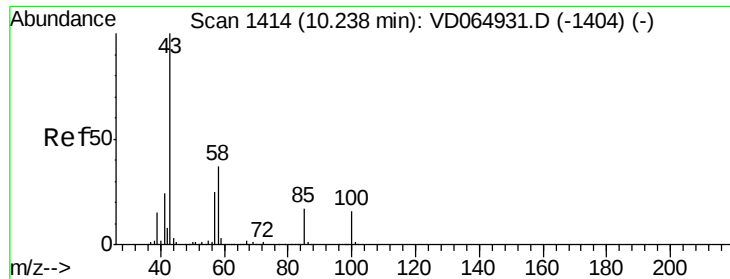
MMDadoda
2/4/2020 11:21:11 AM



#50
Toluene-d8
Concen: 52.199 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. -0.00 min
Lab File: VD065046.D
Acq: 03 Feb 2020 11:24

Tgt Ion	Ratio	Lower	Upper
98	100		
100	65.7	52.3	78.5





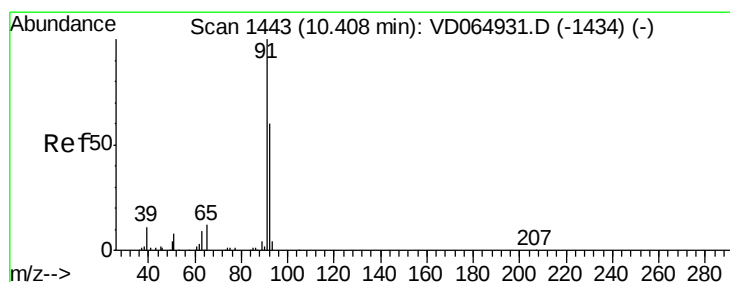
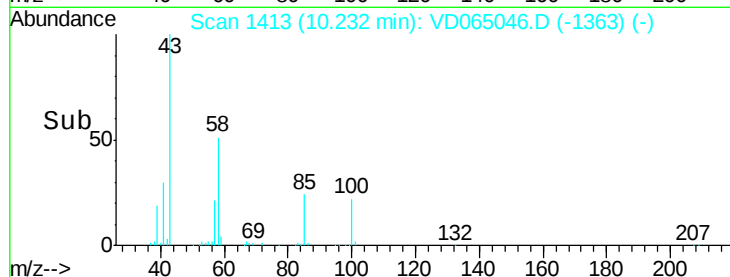
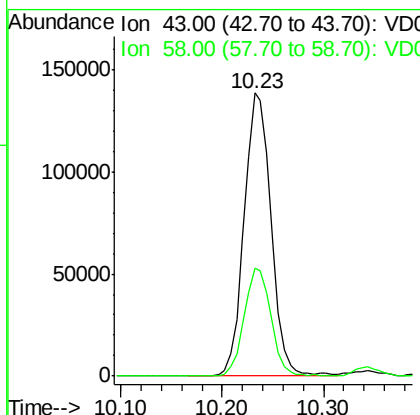
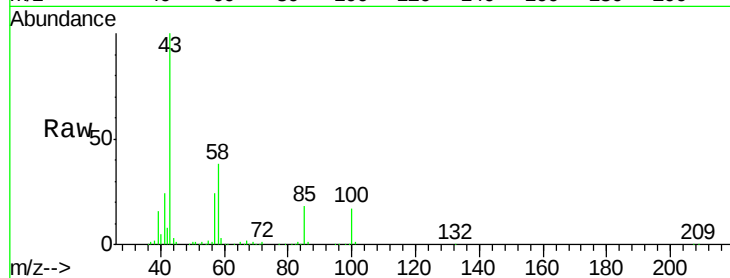
#51
4-Methyl-2-Pentanone
Concen: 95.458 ug/l
RT: 10.23 min Scan# 1413
Delta R.T. -0.01 min
Lab File: VD065046.D
Acq: 03 Feb 2020 11:24

Instrument :
MSVOA_D
ClientSampleId :
VD0203SBS01

Tot Ion: 43 Resp: 255489
Ion Ratio Lower Upper
43 100
58 37.9 30.4 45.6

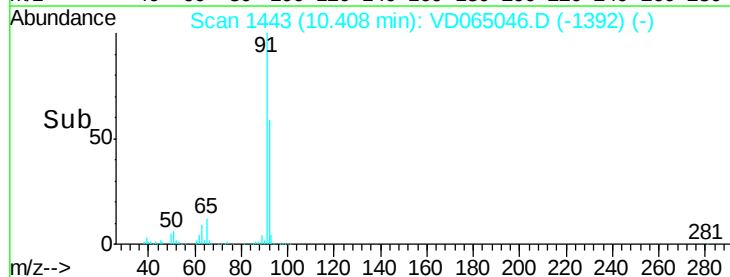
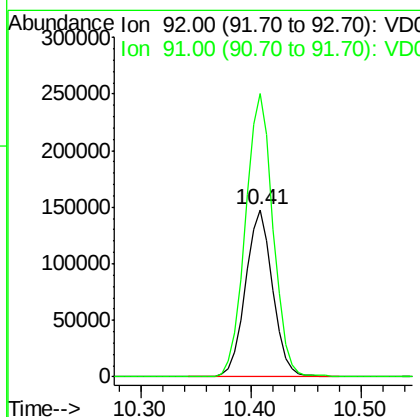
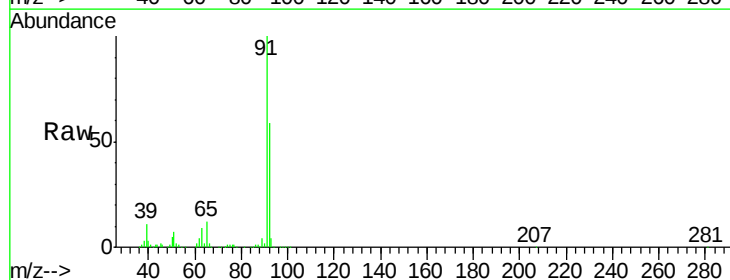
Manual Integrations
APPROVED

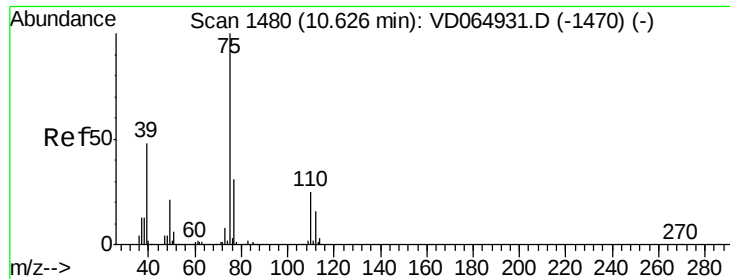
MMDadoda
2/4/2020 11:21:11 AM



#52
Toluene
Concen: 21.161 ug/l
RT: 10.41 min Scan# 1443
Delta R.T. -0.00 min
Lab File: VD065046.D
Acq: 03 Feb 2020 11:24

Tgt Ion: 92 Resp: 256164
Ion Ratio Lower Upper
92 100
91 171.8 136.8 205.2





#53

t-1,3-Dichloropropene

Concen: 20.420 ug/l

RT: 10.63 min Scan# 1480

Delta R.T. -0.00 min

Lab File: VD065046.D

Acq: 03 Feb 2020 11:24

Instrument :

MSVOA_D

ClientSampleId :

VD0203SBS01

Tot Ion: 75 Resp: 125775

Ion Ratio Lower Upper

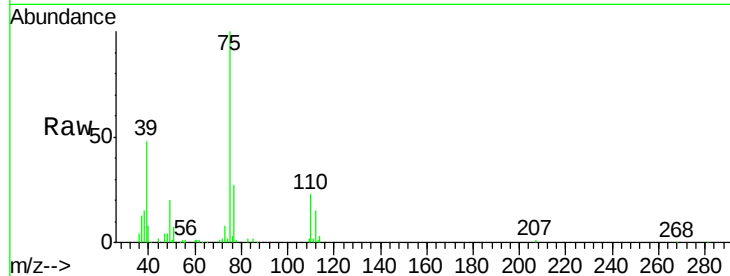
75 100

77 27.2 25.0 37.6

Manual Integrations
APPROVED

MMDadoda

2/4/2020 11:21:11 AM



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 76.90 (76.60 to 77.60): VDC

80000

60000

40000

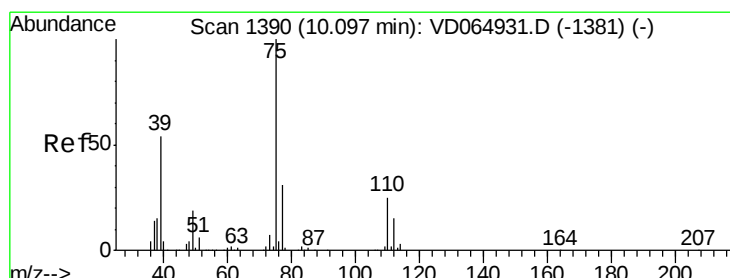
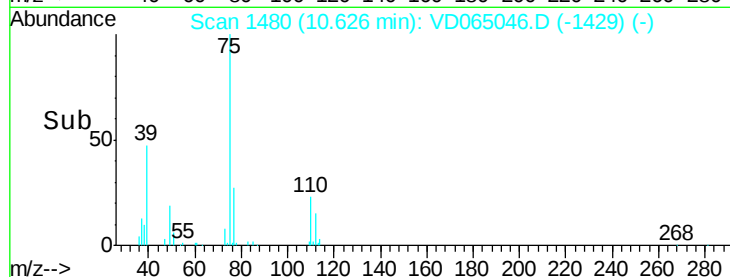
20000

0

10.63

10.60 10.70

Time-->



#54

cis-1,3-Dichloropropene

Concen: 20.736 ug/l

RT: 10.10 min Scan# 1390

Delta R.T. -0.00 min

Lab File: VD065046.D

Acq: 03 Feb 2020 11:24

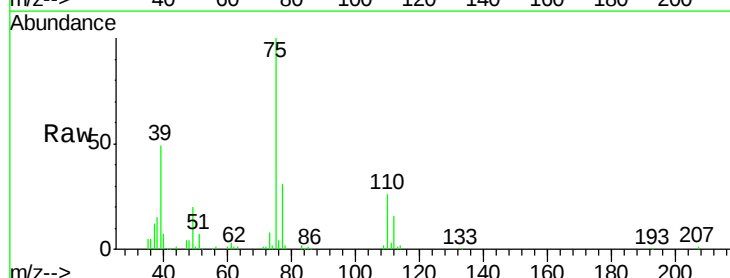
Tgt Ion: 75 Resp: 149541

Ion Ratio Lower Upper

75 100

77 31.2 25.1 37.7

39 49.1 43.0 64.6



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

100000

80000

60000

40000

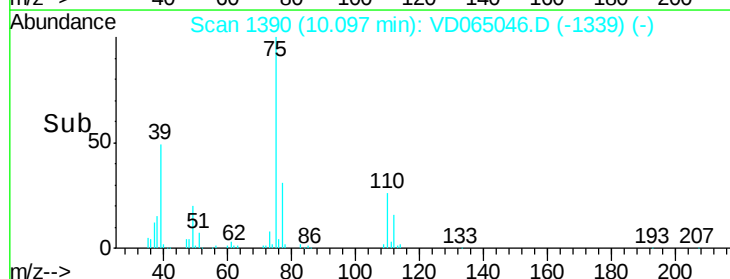
20000

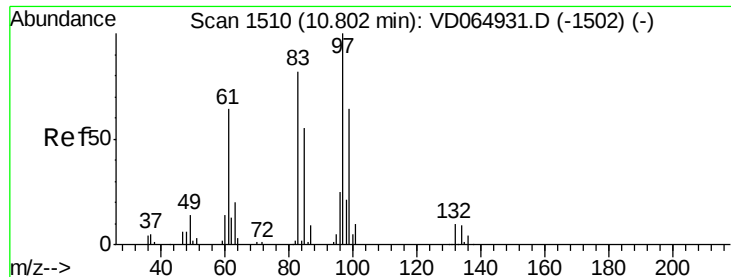
0

10.10

10.00 10.10

Time-->





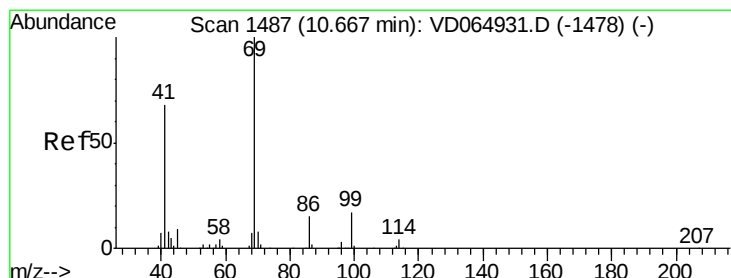
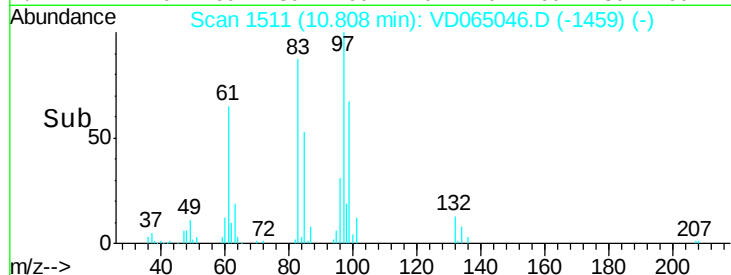
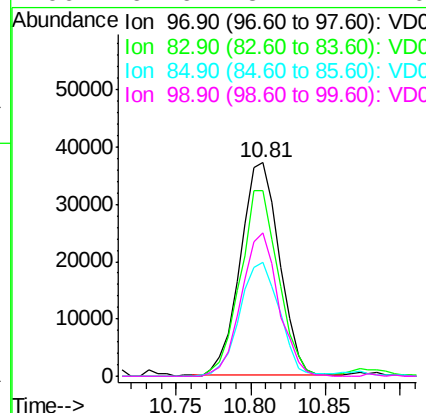
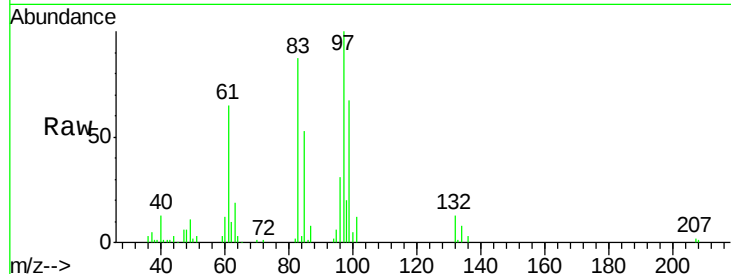
#55
1,1,2-Trichloroethane
Concen: 20.233 ug/l
RT: 10.81 min Scan# 1511
Delta R.T. 0.01 min
Lab File: VD065046.D
Acq: 03 Feb 2020 11:24

Instrument :
MSVOA_D
ClientSampleId :
VD0203SBS01

Tot Ion	97	Resp	67729
Ion	Ratio	Lower	Upper
97	100		
83	87.4	66.0	99.0
85	53.6	44.4	66.6
99	67.6	51.4	77.0

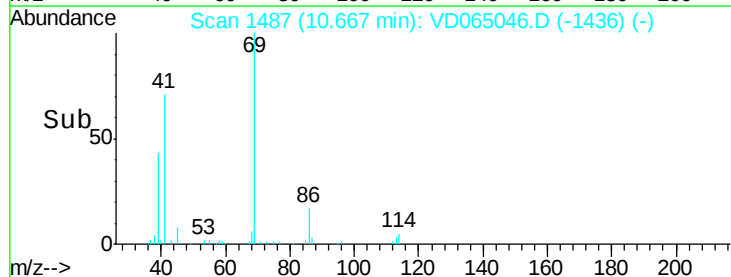
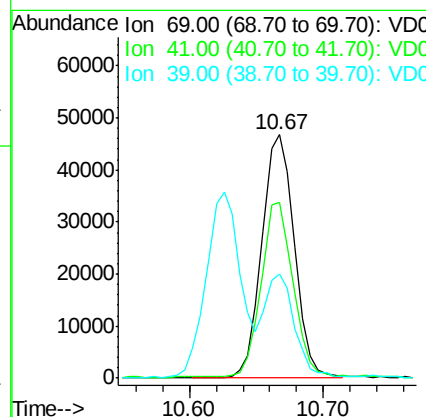
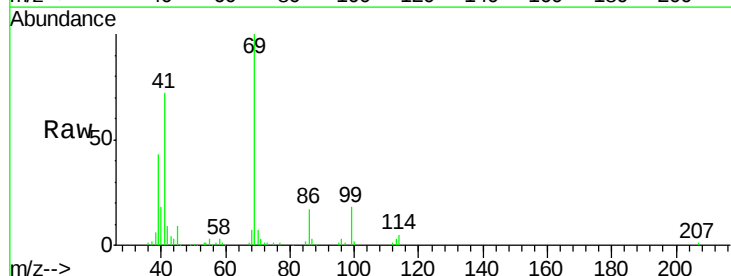
Manual Integrations
APPROVED

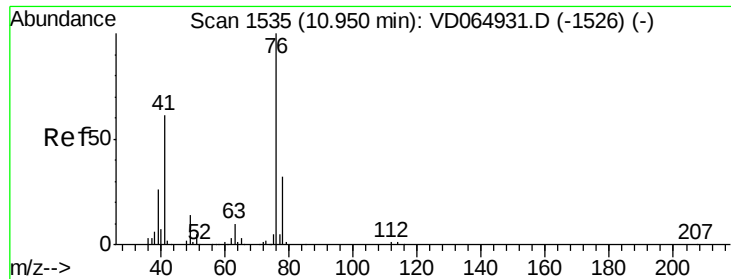
MMDadoda
2/4/2020 11:21:11 AM



#56
Ethyl methacrylate
Concen: 19.645 ug/l
RT: 10.67 min Scan# 1487
Delta R.T. -0.00 min
Lab File: VD065046.D
Acq: 03 Feb 2020 11:24

Tgt Ion	69	Resp	78635
Ion	Ratio	Lower	Upper
69	100		
41	70.1	56.4	84.6
39	38.8	30.6	46.0





#57

1,3-Dichloropropane

Concen: 20.281 ug/l

RT: 10.96 min Scan# 1536

Delta R.T. 0.01 min

Lab File: VD065046.D

Acq: 03 Feb 2020 11:24

Instrument :

MSVOA_D

ClientSampleId :

VD0203SBS01

Tot Ion: 76 Resp: 116437

Ion Ratio Lower Upper

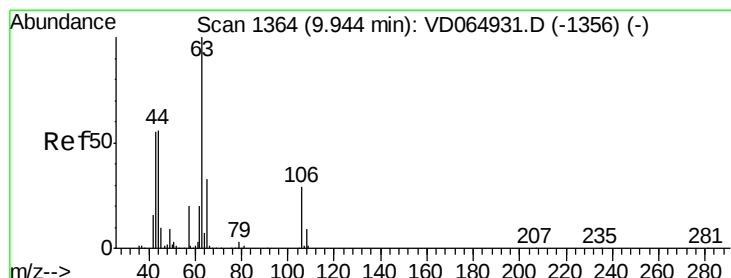
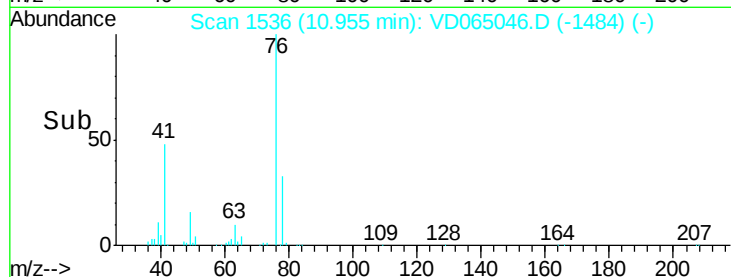
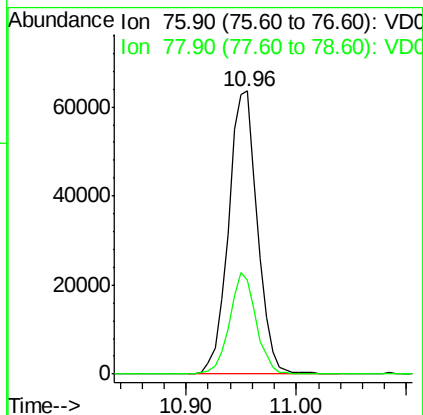
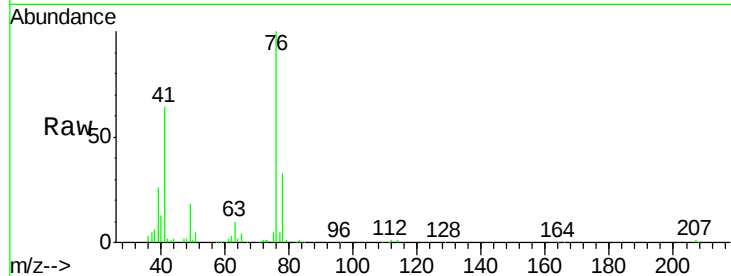
76 100

78 33.0 25.7 38.5

Manual Integrations
APPROVED

MMDadoda

2/4/2020 11:21:11 AM



#58

2-Chloroethyl Vinyl ether

Concen: 97.475 ug/l

RT: 9.94 min Scan# 1364

Delta R.T. -0.00 min

Lab File: VD065046.D

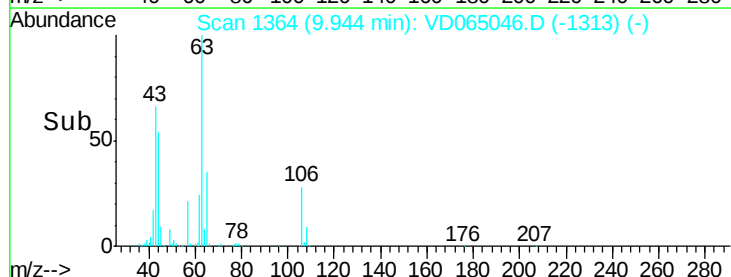
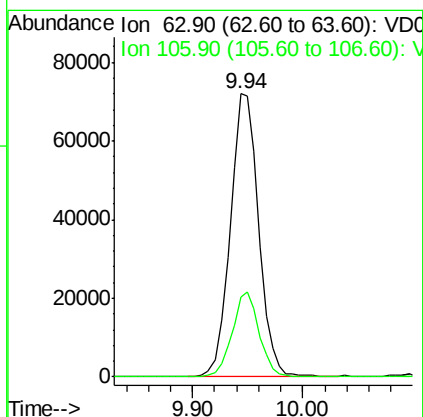
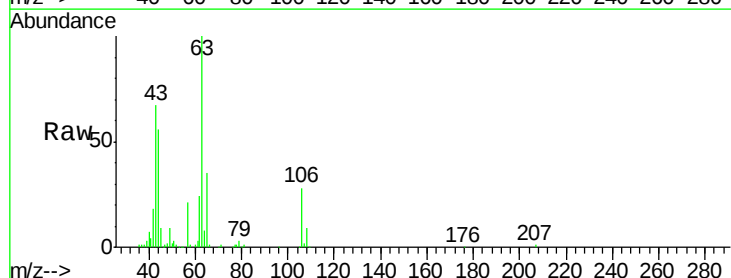
Acq: 03 Feb 2020 11:24

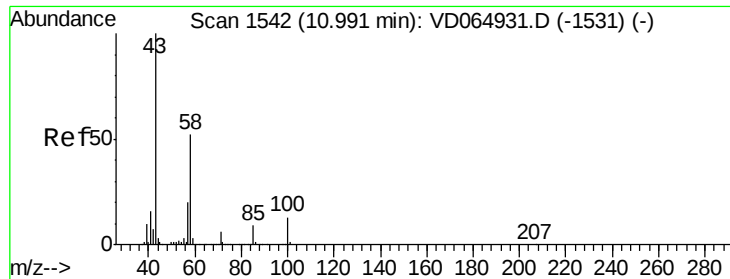
Tgt Ion: 63 Resp: 129626

Ion Ratio Lower Upper

63 100

106 28.4 23.0 34.4





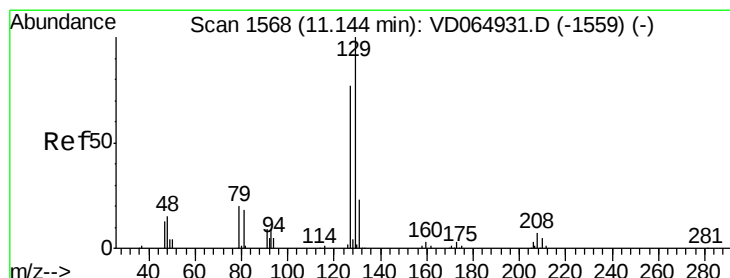
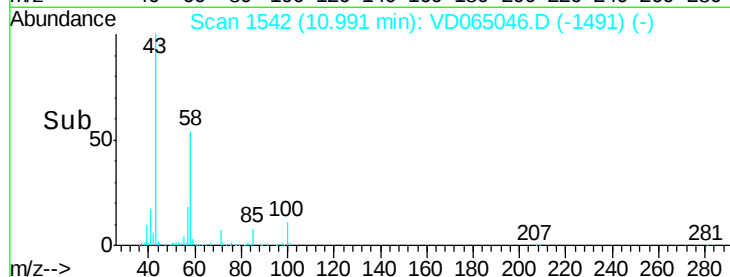
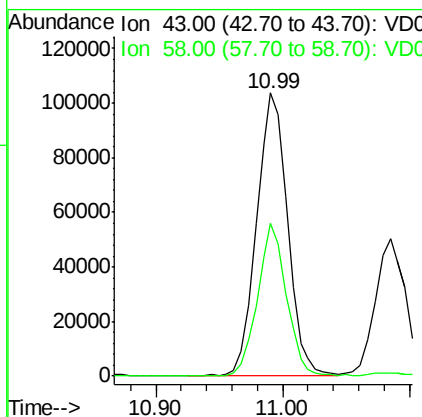
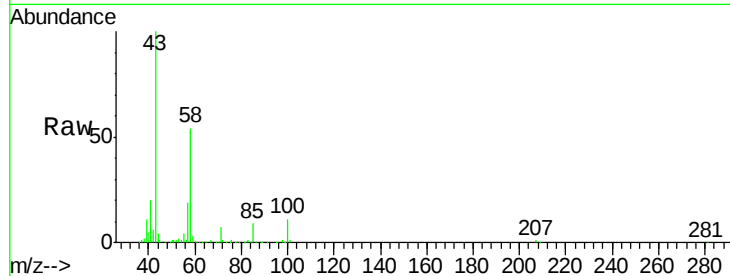
#59
2-Hexanone
Concen: 96.219 ug/l
RT: 10.99 min Scan# 1542
Delta R.T. -0.00 min
Lab File: VD065046.D
Acq: 03 Feb 2020 11:24

Instrument :
MSVOA_D
ClientSampleId :
VD0203SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
58	50.3	26.5	79.4

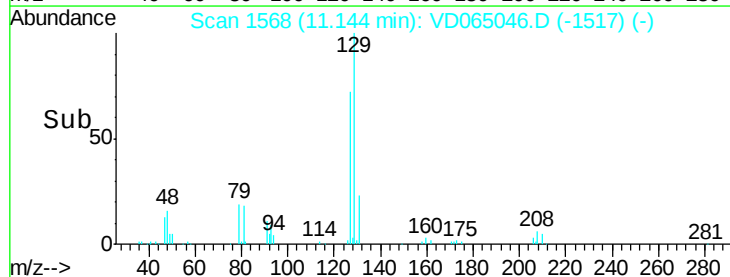
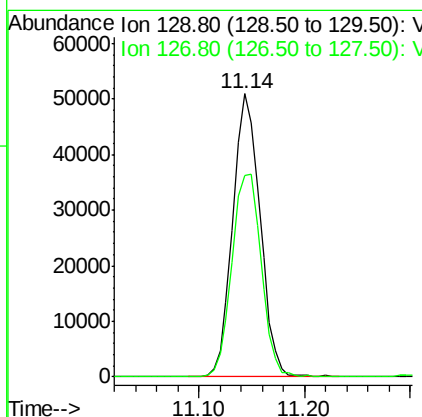
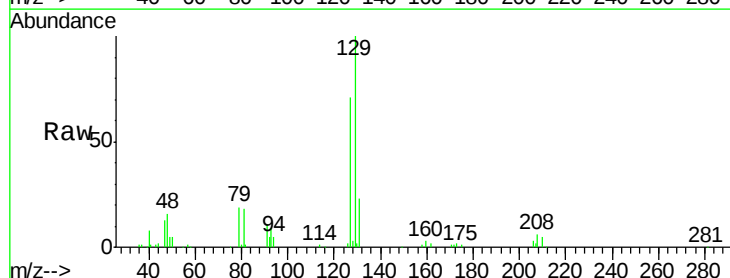
Manual Integrations
APPROVED

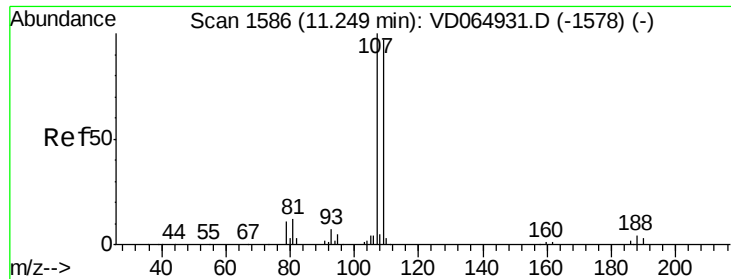
MMDadoda
2/4/2020 11:21:11 AM



#60
Dibromochloromethane
Concen: 20.400 ug/l
RT: 11.14 min Scan# 1568
Delta R.T. -0.00 min
Lab File: VD065046.D
Acq: 03 Feb 2020 11:24

Tgt Ion	Ratio	Lower	Upper
129	100		
127	76.4	38.2	114.6





#61

1,2-Dibromoethane

Concen: 20.011 ug/l

RT: 11.25 min Scan# 1586

Delta R.T. -0.00 min

Lab File: VD065046.D

Acq: 03 Feb 2020 11:24

Instrument :

MSVOA_D

ClientSampleId :

VD0203SBS01

Tot Ion: 107 Resp: 64498

Ion Ratio Lower Upper

107 100

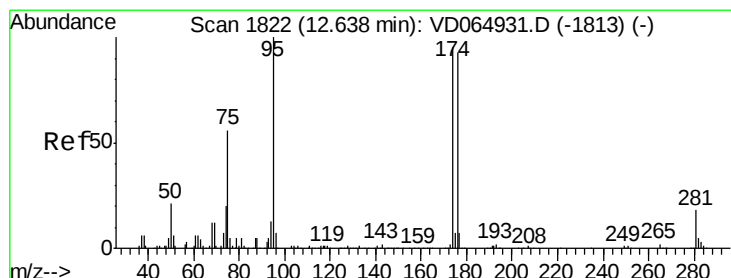
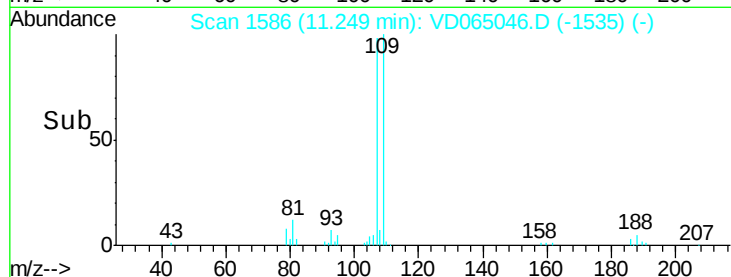
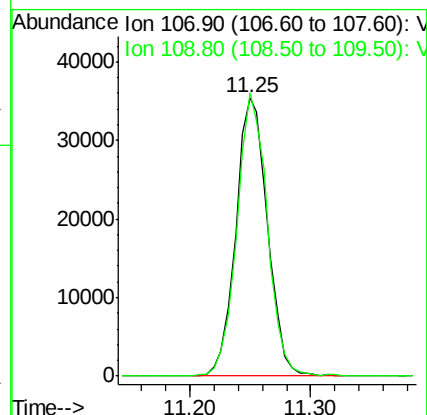
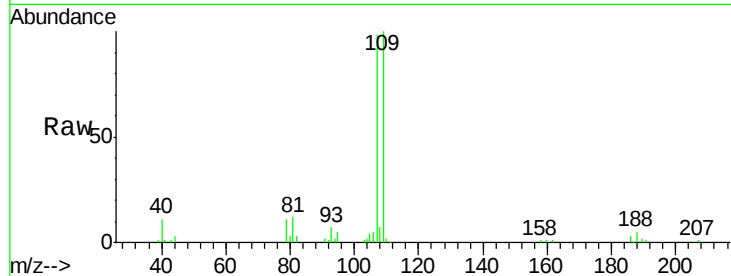
109 97.7 77.1 115.7

Manual Integrations

APPROVED

MMDadoda

2/4/2020 11:21:11 AM



#62

4-Bromofluorobenzene

Concen: 52.141 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.00 min

Lab File: VD065046.D

Acq: 03 Feb 2020 11:24

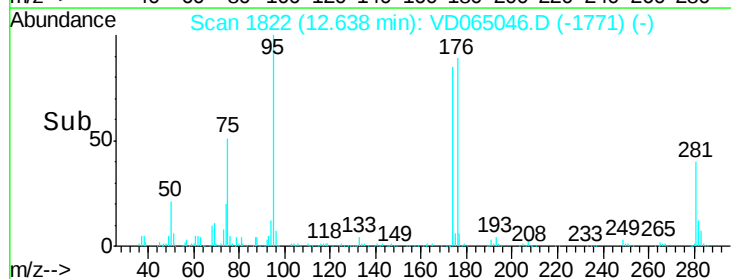
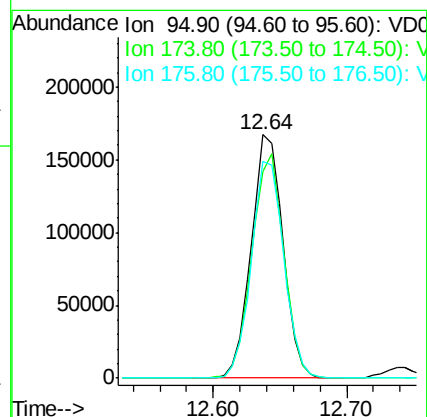
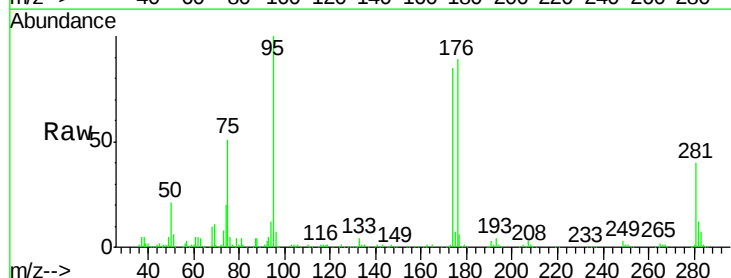
Tgt Ion: 95 Resp: 273608

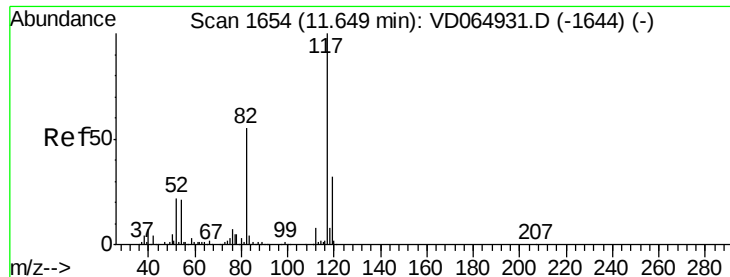
Ion Ratio Lower Upper

95 100

174 92.6 0.0 186.8

176 91.3 0.0 183.4





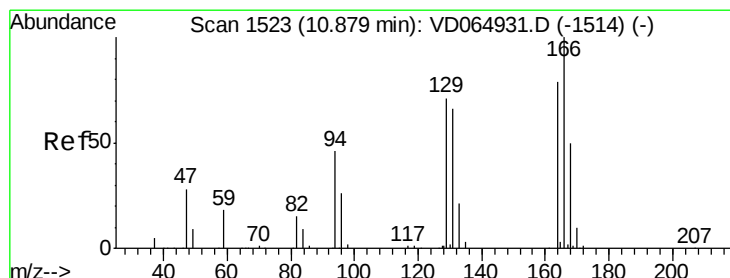
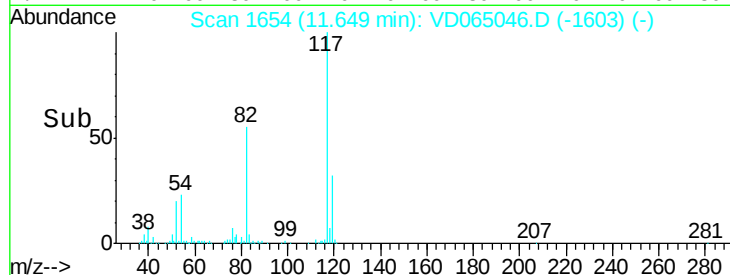
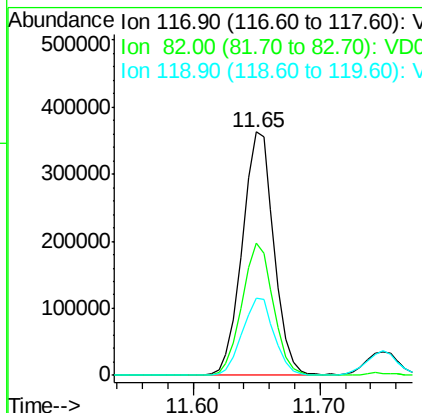
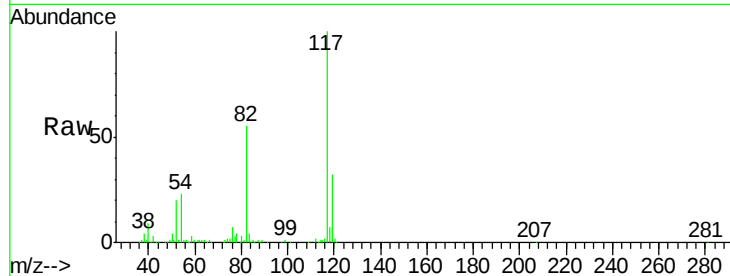
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. -0.00 min
Lab File: VD065046.D
Acq: 03 Feb 2020 11:24

Instrument :
MSVOA_D
ClientSampleId :
VD0203SBS01

Tot Ion	Ratio	Lower	Upper
117	100		
82	54.5	43.6	65.4
119	31.8	25.2	37.8

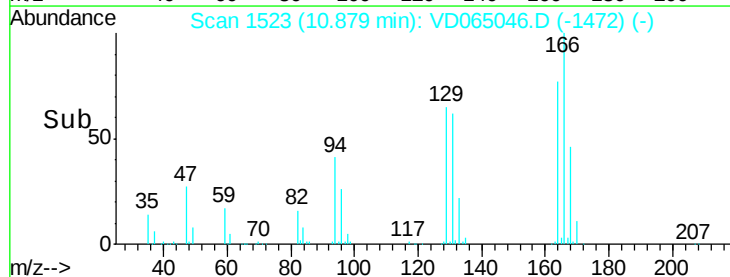
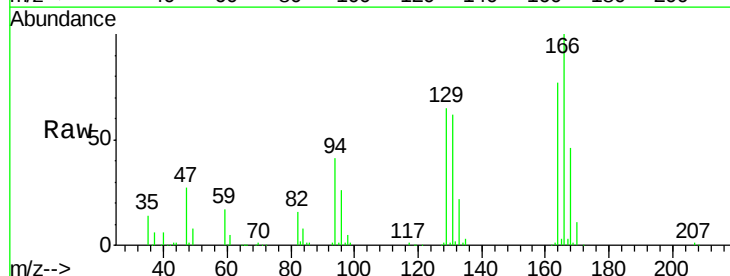
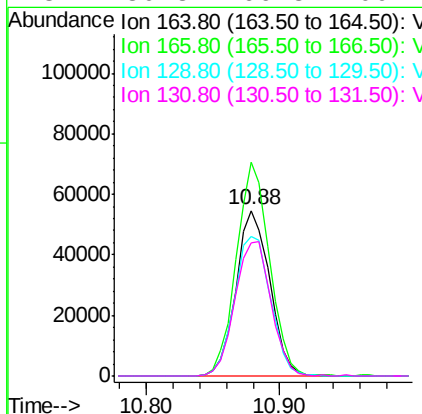
Manual Integrations
APPROVED

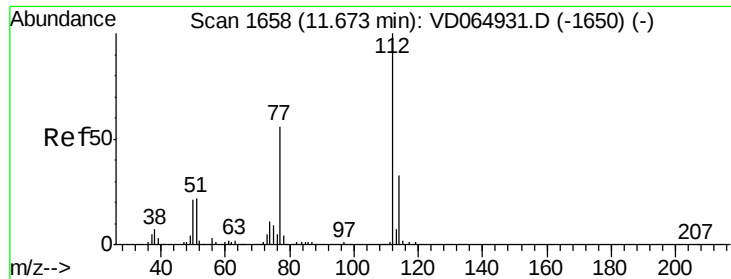
MMDadoda
2/4/2020 11:21:11 AM



#64
Tetrachloroethene
Concen: 21.070 ug/l
RT: 10.88 min Scan# 1523
Delta R.T. -0.00 min
Lab File: VD065046.D
Acq: 03 Feb 2020 11:24

Tgt Ion	Ratio	Lower	Upper
164	100		
166	129.3	101.4	152.2
129	84.1	71.8	107.8
131	80.3	66.8	100.2





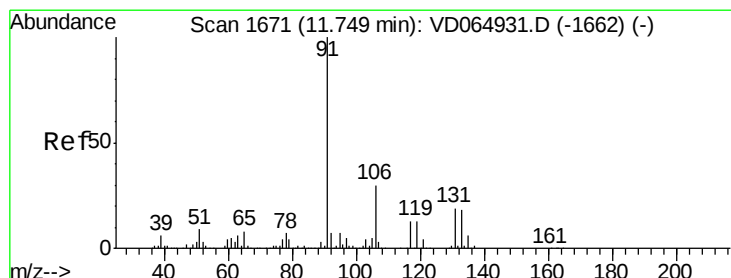
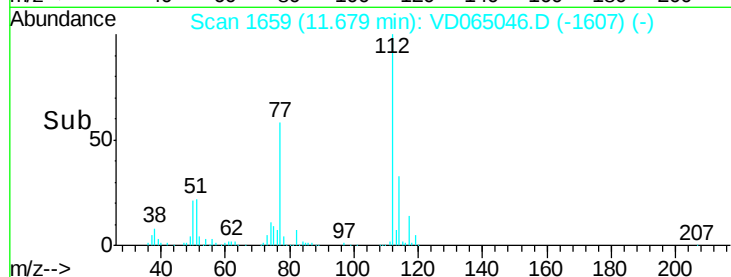
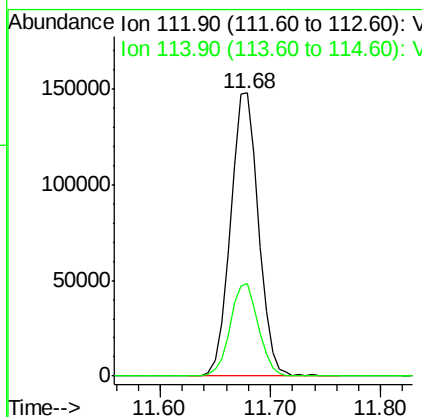
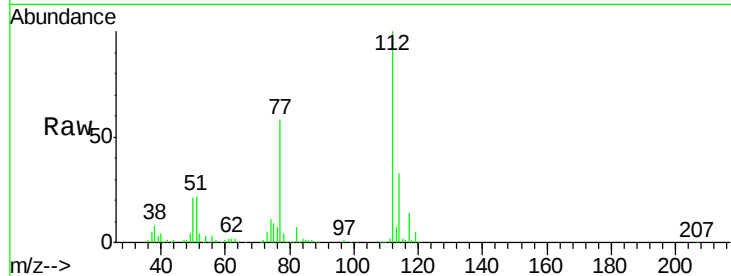
#65
Chlorobenzene
Concen: 20.635 ug/l
RT: 11.68 min Scan# 1659
Delta R.T. 0.01 min
Lab File: VD065046.D
Acq: 03 Feb 2020 11:24

Instrument :
MSVOA_D
ClientSampleId :
VD0203SBS01

Tot Ion	Ratio	Resp	Lower	Upper
112	100	263171		
114	32.7	26.2	39.4	

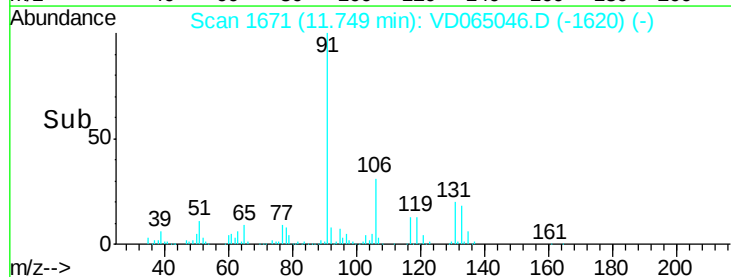
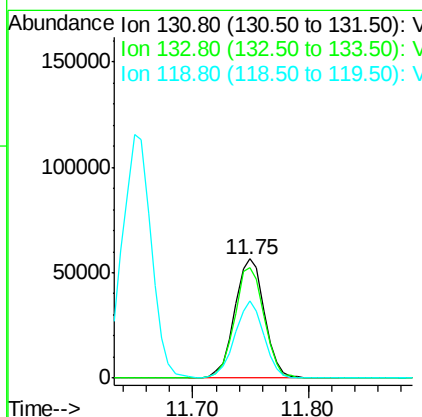
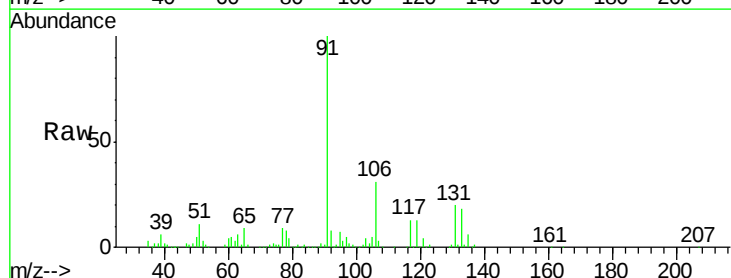
Manual Integrations
APPROVED

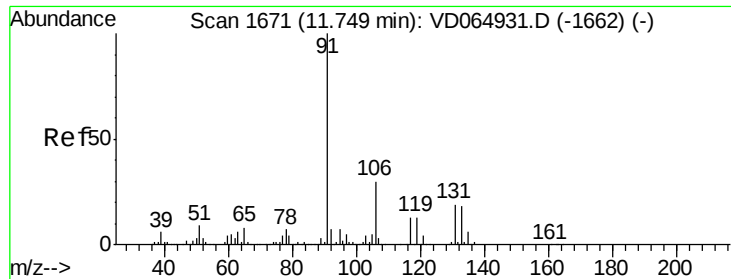
MMDadoda
2/4/2020 11:21:11 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 21.109 ug/l
RT: 11.75 min Scan# 1671
Delta R.T. -0.00 min
Lab File: VD065046.D
Acq: 03 Feb 2020 11:24

Tgt Ion	Ratio	Resp	Lower	Upper
131	100	101246		
133	92.0	47.5	142.5	
119	63.1	31.1	93.5	





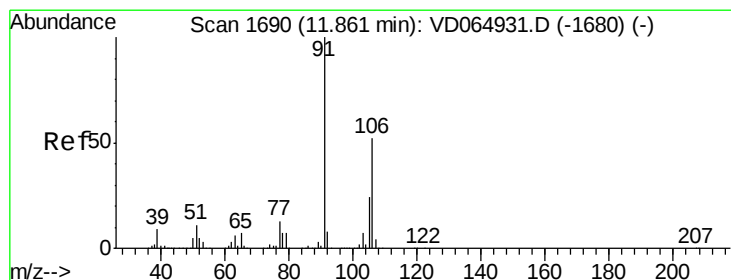
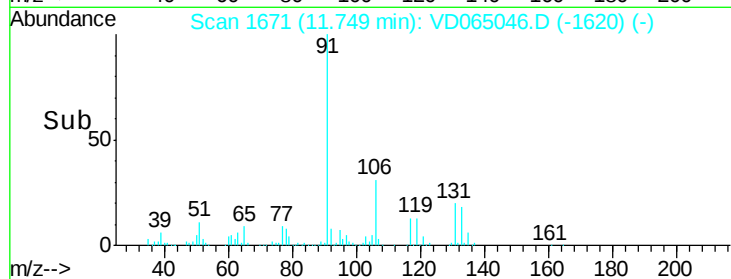
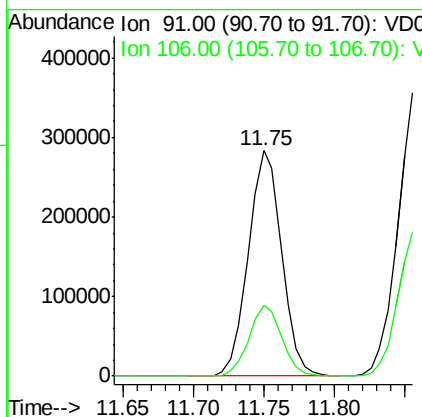
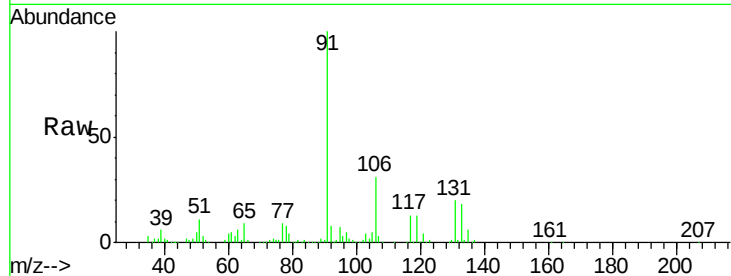
#67
Ethyl Benzene
Concen: 20.756 ug/l
RT: 11.75 min Scan# 1671
Delta R.T. -0.00 min
Lab File: VD065046.D
Acq: 03 Feb 2020 11:24

Instrument :
MSVOA_D
ClientSampleId :
VD0203SBS01

Tot Ion: 91 Resp: 469946
Ion Ratio Lower Upper
91 100
106 31.2 24.3 36.5

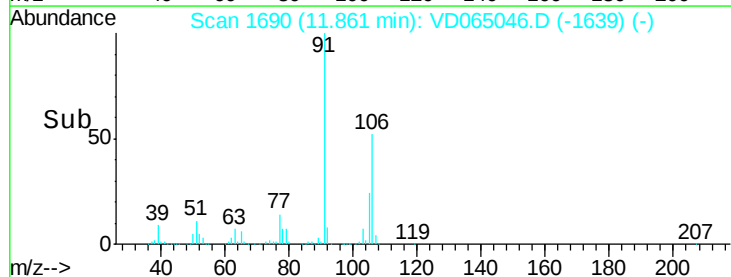
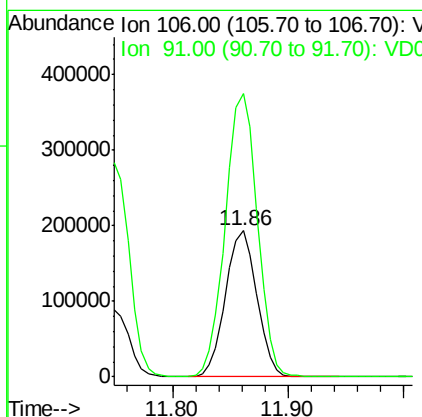
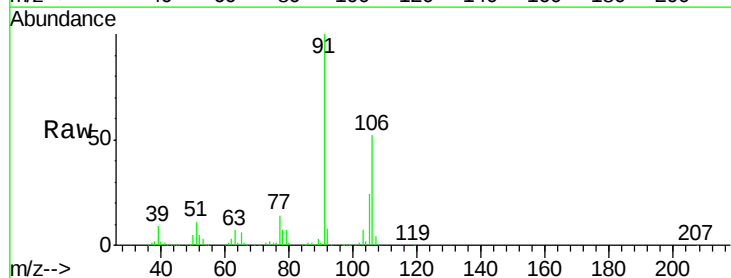
Manual Integrations
APPROVED

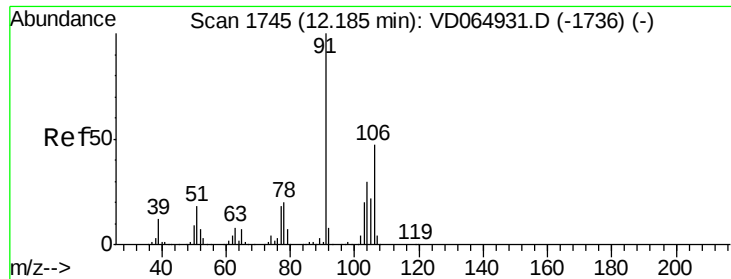
MMDadoda
2/4/2020 11:21:11 AM



#68
m/p-Xylenes
Concen: 41.971 ug/l
RT: 11.86 min Scan# 1690
Delta R.T. -0.00 min
Lab File: VD065046.D
Acq: 03 Feb 2020 11:24

Tgt Ion: 106 Resp: 365881
Ion Ratio Lower Upper
106 100
91 197.9 159.0 238.4





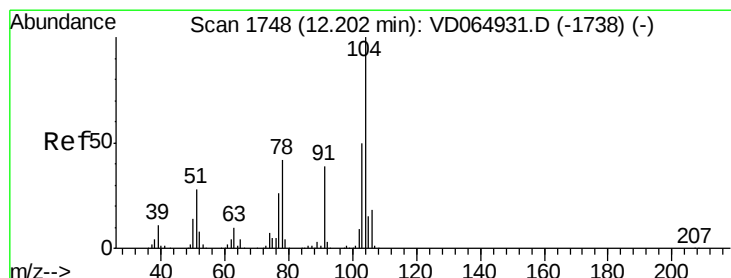
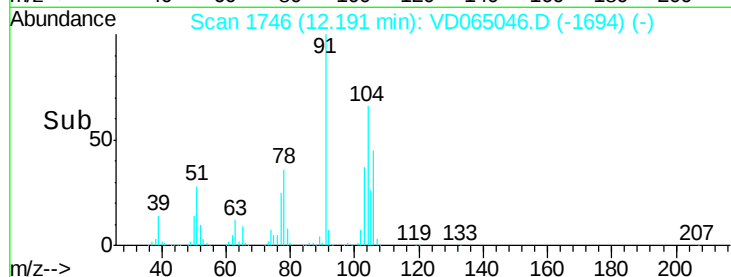
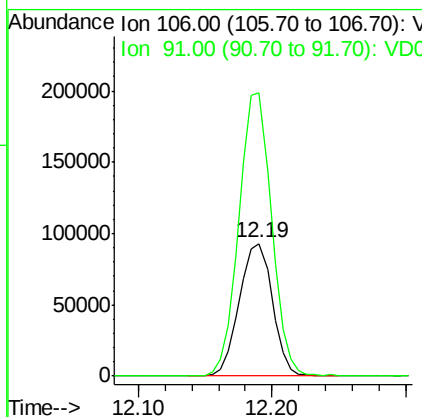
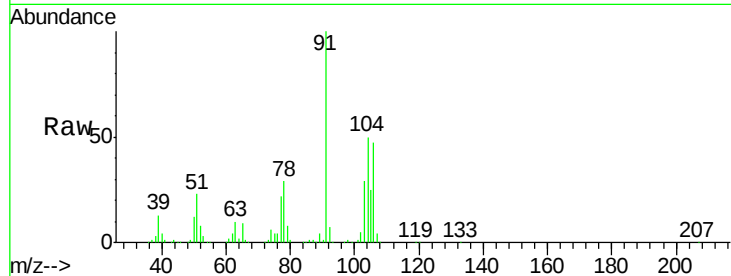
#69
o-Xylene
Concen: 20.698 ug/l
RT: 12.19 min Scan# 1746
Delta R.T. 0.01 min
Lab File: VD065046.D
Acq: 03 Feb 2020 11:24

Instrument :
MSVOA_D
ClientSampleId :
VD0203SBS01

Tot Ion:106 Resp: 160139
Ion Ratio Lower Upper
106 100
91 210.6 106.7 319.9

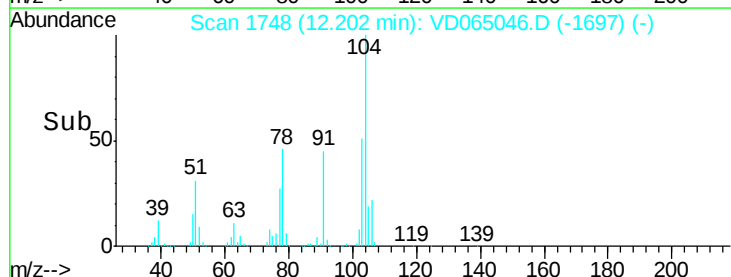
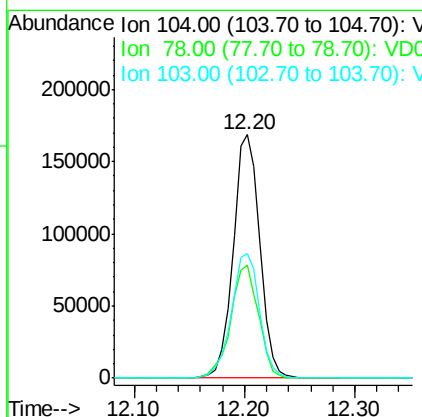
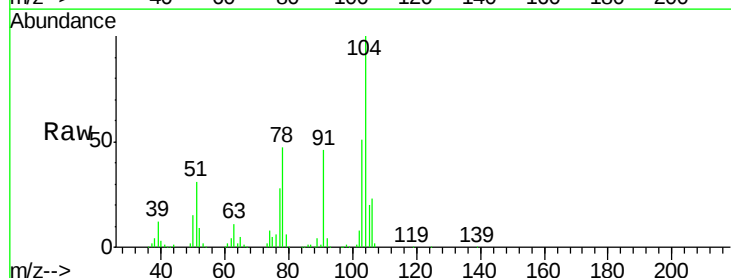
Manual Integrations
APPROVED

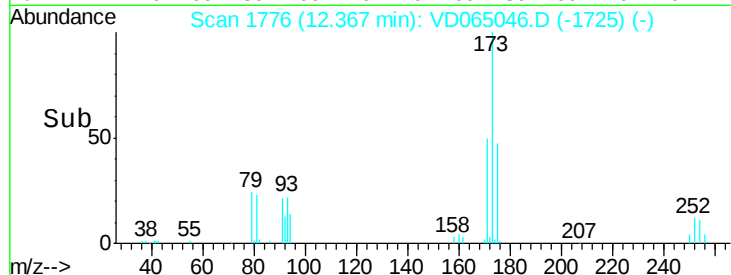
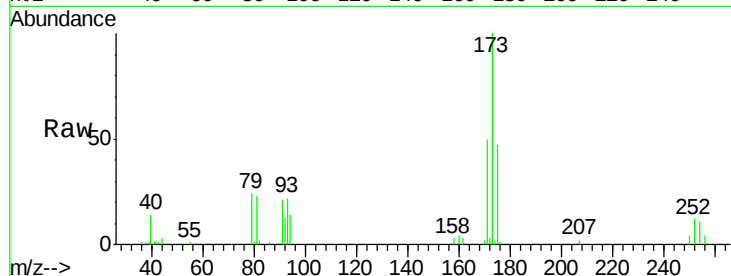
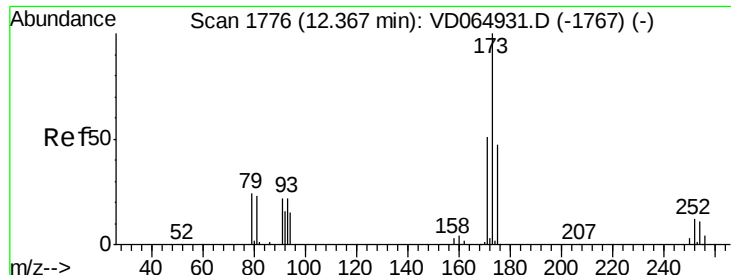
MMDadoda
2/4/2020 11:21:11 AM



#70
Styrene
Concen: 20.693 ug/l
RT: 12.20 min Scan# 1748
Delta R.T. -0.00 min
Lab File: VD065046.D
Acq: 03 Feb 2020 11:24

Tgt Ion:104 Resp: 285198
Ion Ratio Lower Upper
104 100
78 48.7 38.3 57.5
103 54.1 43.5 65.3





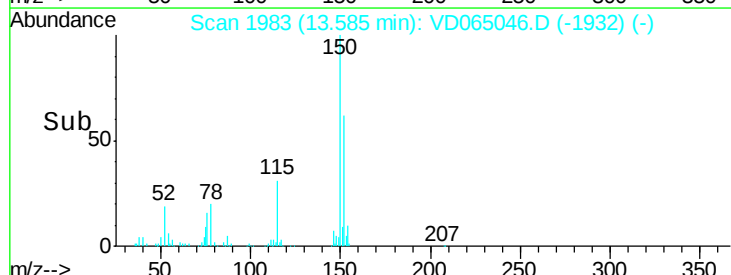
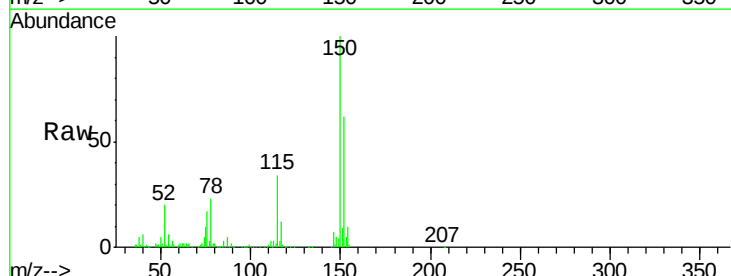
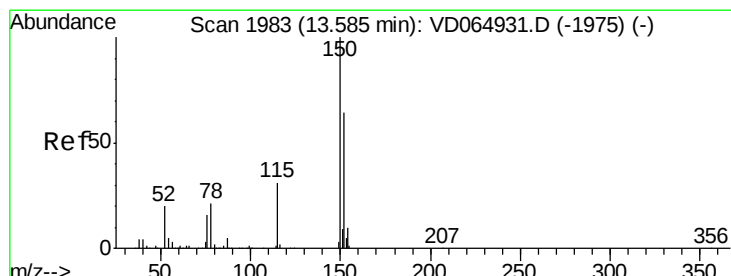
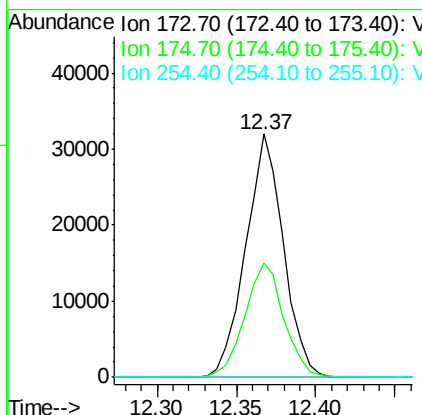
#71
Bromoform
Concen: 19.781 ug/l
RT: 12.37 min Scan# 1776
Delta R.T. -0.00 min
Lab File: VD065046.D
Acq: 03 Feb 2020 11:24

Tot Ion	Ratio	Lower	Upper
173	100		
175	48.7	24.6	73.8
254	0.0	0.1	0.1#

Instrument :
MSVOA_D
ClientSampleId :
VD0203SBS01

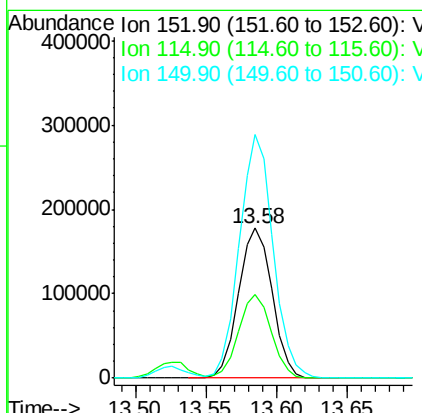
Manual Integrations
APPROVED

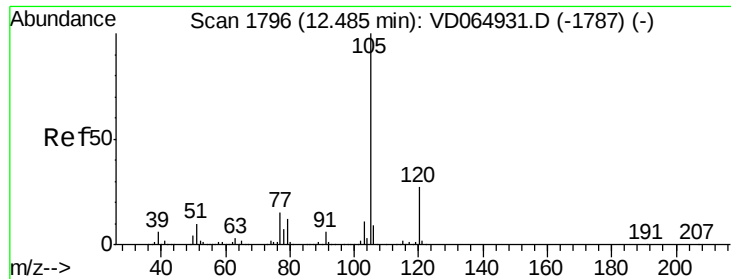
MMDadoda
2/4/2020 11:21:11 AM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1983
Delta R.T. -0.00 min
Lab File: VD065046.D
Acq: 03 Feb 2020 11:24

Tgt Ion	Ratio	Lower	Upper
152	100		
115	54.5	28.1	84.4
150	162.4	0.0	350.4





#73

Isopropylbenzene

Concen: 21.602 ug/l

RT: 12.48 min Scan# 1796

Delta R.T. -0.00 min

Lab File: VD065046.D

Acq: 03 Feb 2020 11:24

Instrument :

MSVOA_D

ClientSampleId :

VD0203SBS01

Tot Ion: 105 Resp: 437583

Ion Ratio Lower Upper

105 100

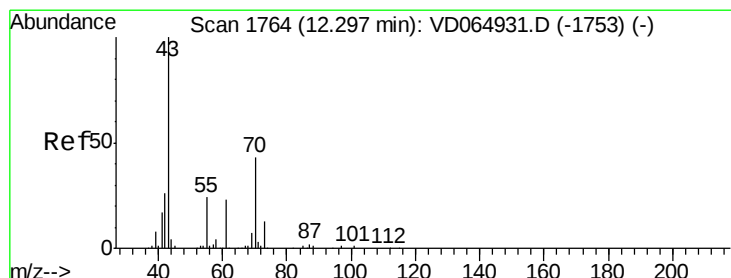
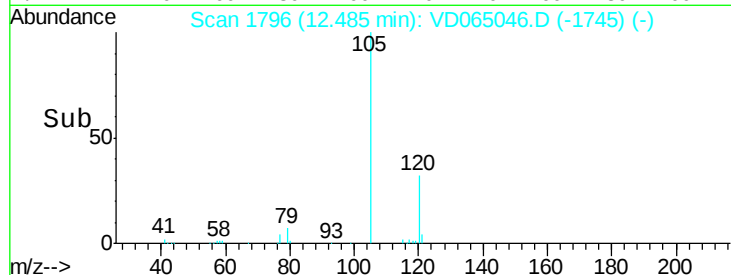
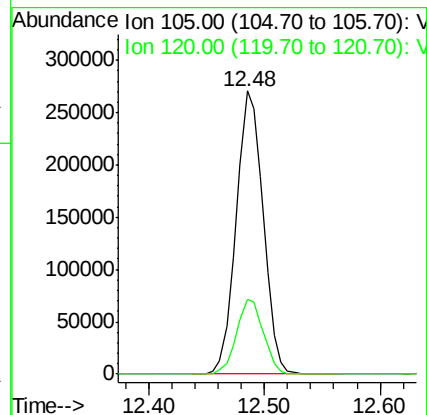
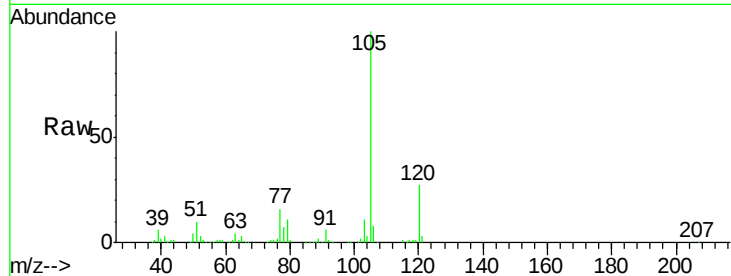
120 26.2 13.3 39.8

Manual Integrations

APPROVED

MMDadoda

2/4/2020 11:21:11 AM



#74

N-ethyl acetate

Concen: 19.375 ug/l

RT: 12.30 min Scan# 1764

Delta R.T. -0.00 min

Lab File: VD065046.D

Acq: 03 Feb 2020 11:24

Tgt Ion: 43 Resp: 87822

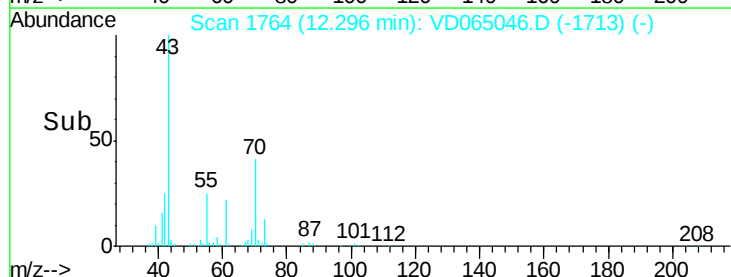
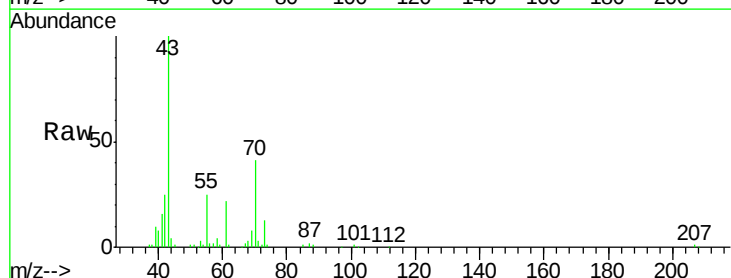
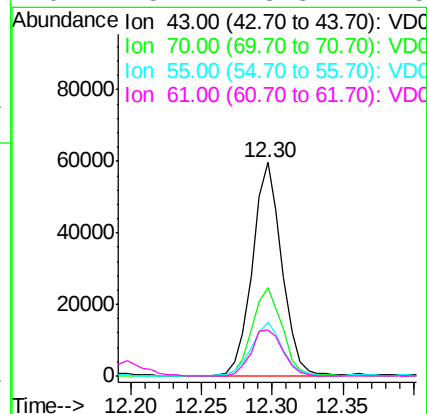
Ion Ratio Lower Upper

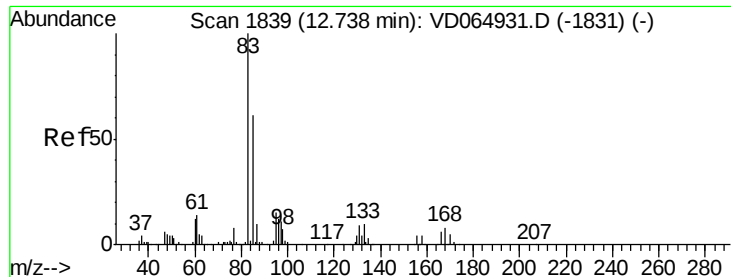
43 100

70 42.2 32.6 49.0

55 26.2 19.9 29.9

61 23.4 18.3 27.5





#75

1,1,2,2-Tetrachloroethane

Concen: 20.719 ug/l

RT: 12.74 min Scan# 1839

Delta R.T. -0.00 min

Lab File: VD065046.D

Acq: 03 Feb 2020 11:24

Instrument :

MSVOA_D

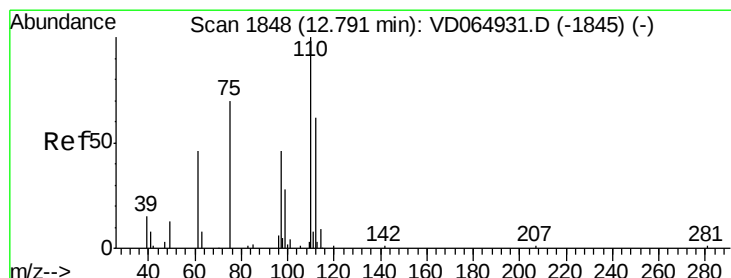
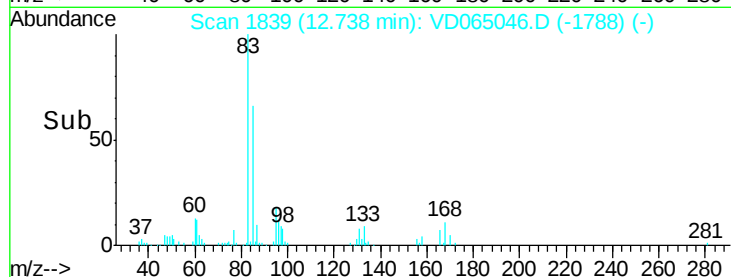
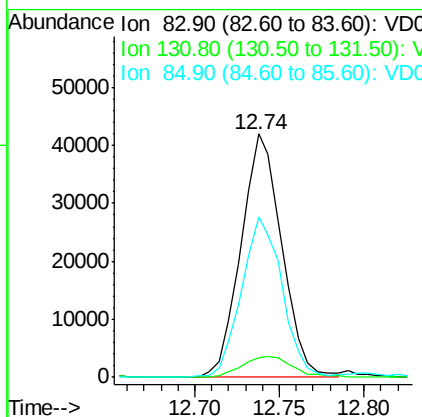
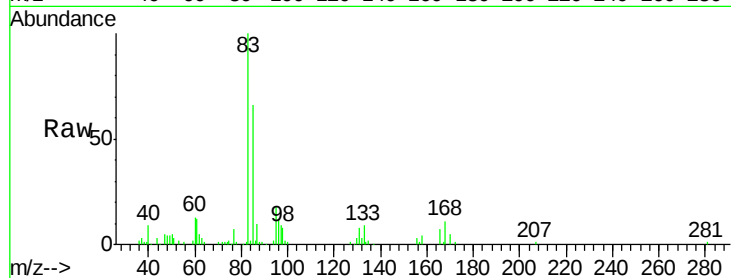
ClientSampleId :

VD0203SBS01

Tot Ion:	83	Resp:	70538
Ion	Ratio	Lower	Upper
83	100		
131	10.7	5.5	16.4
85	65.7	31.6	94.7

Manual Integrations
APPROVED

MMDadoda
2/4/2020 11:21:11 AM



#76

1,2,3-Trichloropropane

Concen: 20.263 ug/l m

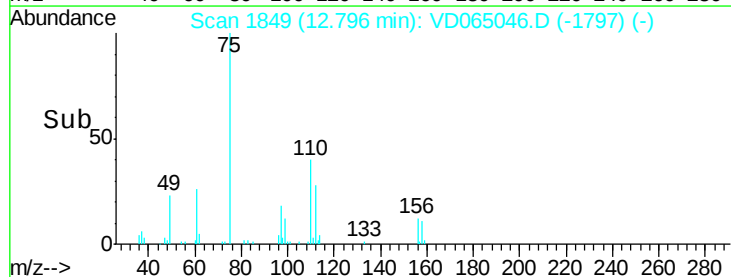
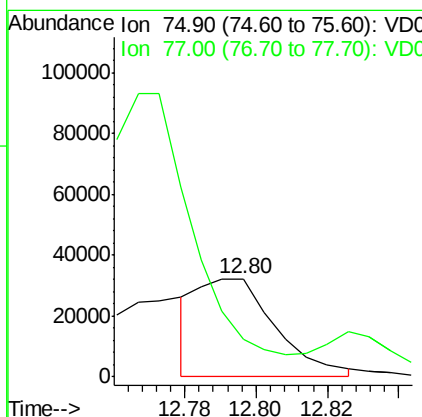
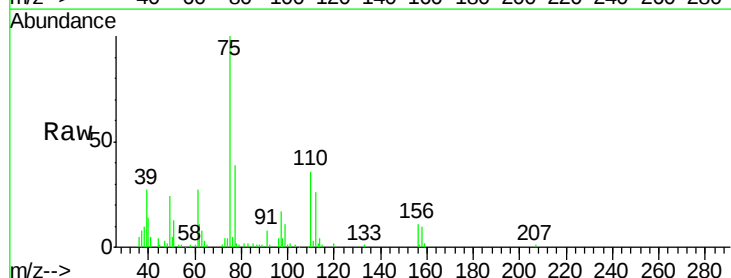
RT: 12.80 min Scan# 1849

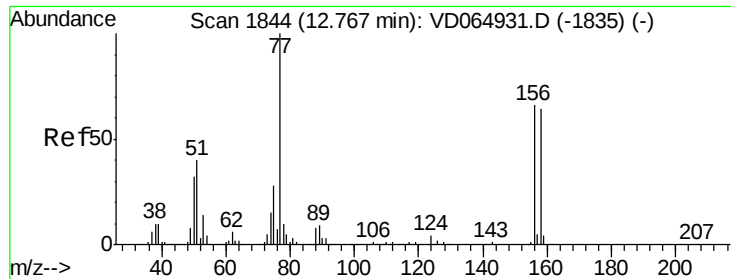
Delta R.T. 0.01 min

Lab File: VD065046.D

Acq: 03 Feb 2020 11:24

Tgt Ion:	75	Resp:	49844
Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 21.251 ug/l

RT: 12.77 min Scan# 1844

Delta R.T. -0.00 min

Lab File: VD065046.D

Acq: 03 Feb 2020 11:24

Instrument :

MSVOA_D

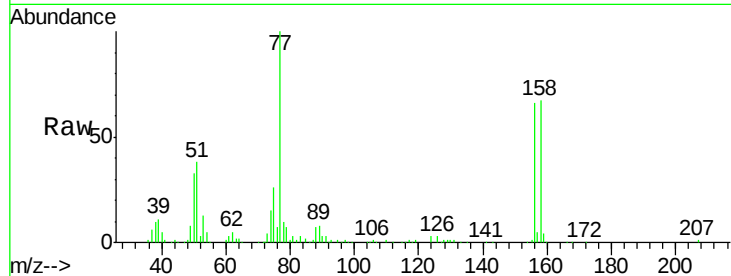
ClientSampleId :

VD0203SBS01

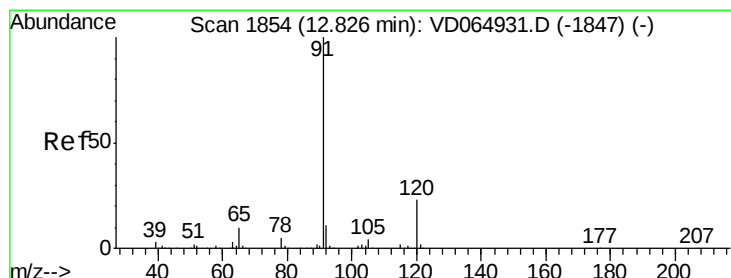
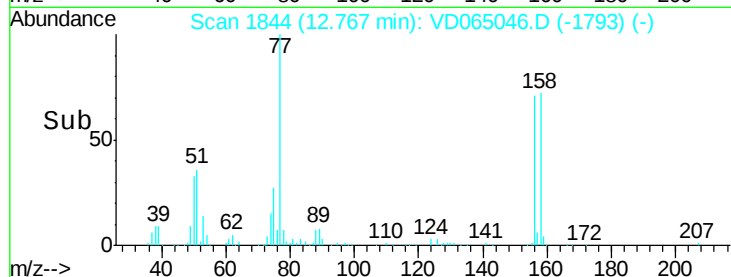
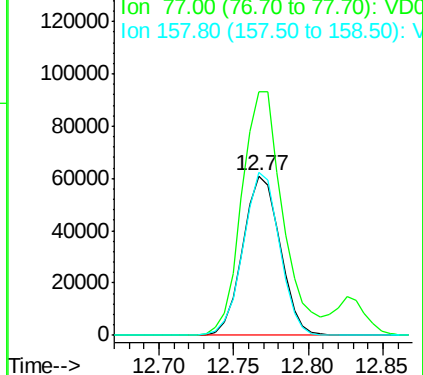
Tot Ion:	156	Resp:	105324
Ion Ratio	Lower	Upper	
156	100		
77	168.8	84.2	252.5
158	99.2	48.1	144.4

Manual Integrations
APPROVED

MMDadoda
2/4/2020 11:21:11 AM



Abundance Ion 155.80 (155.50 to 156.50): V
Ion 77.00 (76.70 to 77.70): VDC
Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 21.849 ug/l

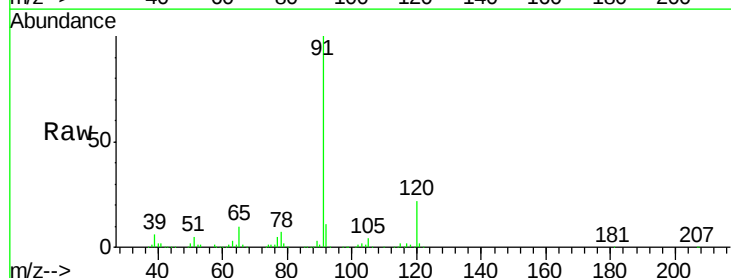
RT: 12.83 min Scan# 1854

Delta R.T. -0.00 min

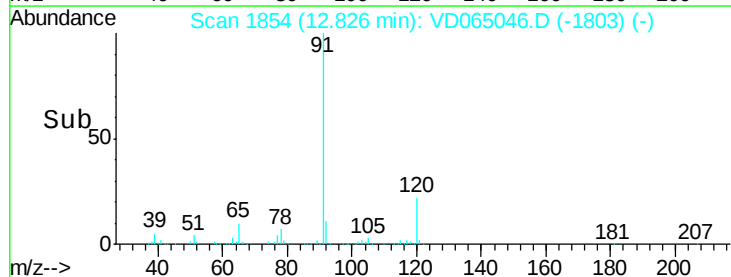
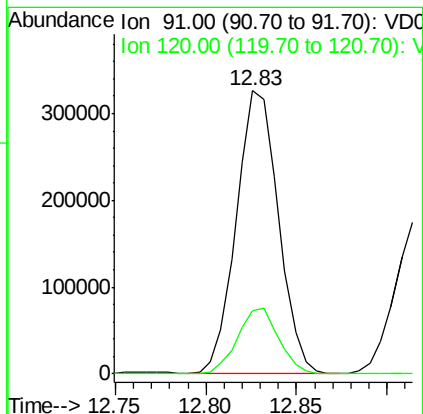
Lab File: VD065046.D

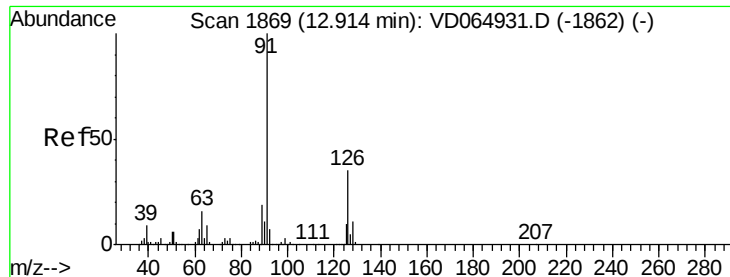
Acq: 03 Feb 2020 11:24

Tgt Ion:	91	Resp:	526340
Ion Ratio	Lower	Upper	
91	100		
120	22.9	11.7	35.1



Abundance Ion 91.00 (90.70 to 91.70): VDC
Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 22.130 ug/l

RT: 12.91 min Scan# 1869

Delta R.T. -0.00 min

Lab File: VD065046.D

Acq: 03 Feb 2020 11:24

Instrument :

MSVOA_D

ClientSampleId :

VD0203SBS01

Tot Ion: 91 Resp: 292448

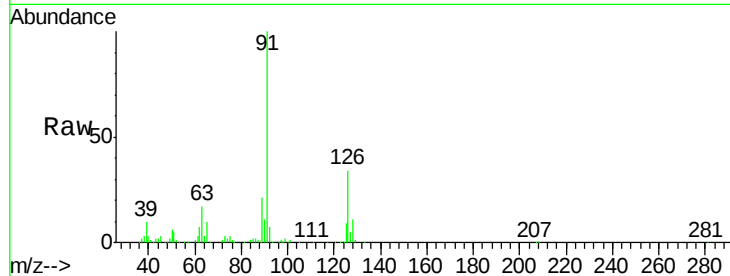
Ion Ratio Lower Upper

91 100

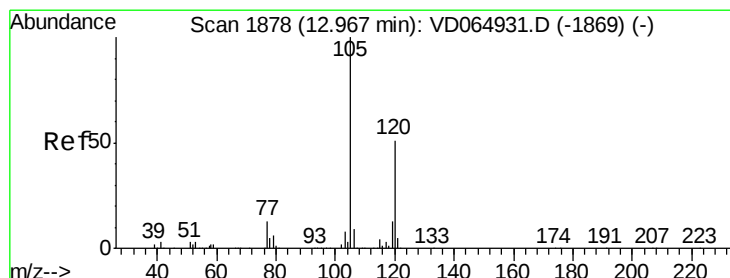
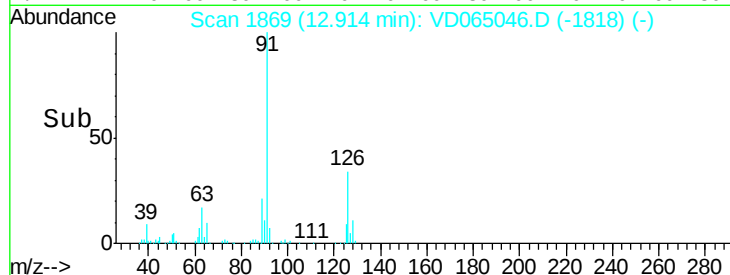
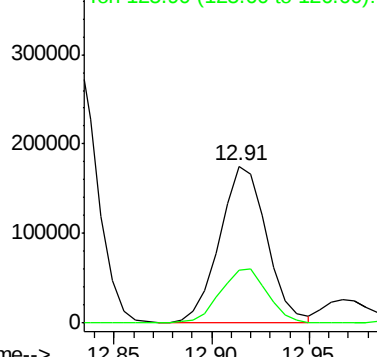
126 34.9 17.9 53.8

Manual Integrations
APPROVED

MMDadoda
2/4/2020 11:21:11 AM



Abundance Ion 91.00 (90.70 to 91.70): VD064931.D (-1862) (-)



#80

1,3,5-Trimethylbenzene

Concen: 21.930 ug/l

RT: 12.97 min Scan# 1878

Delta R.T. -0.00 min

Lab File: VD065046.D

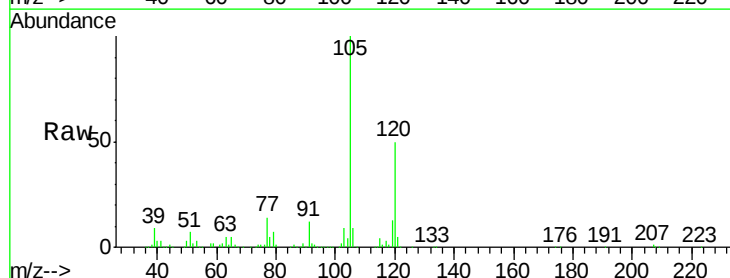
Acq: 03 Feb 2020 11:24

Tgt Ion: 105 Resp: 364038

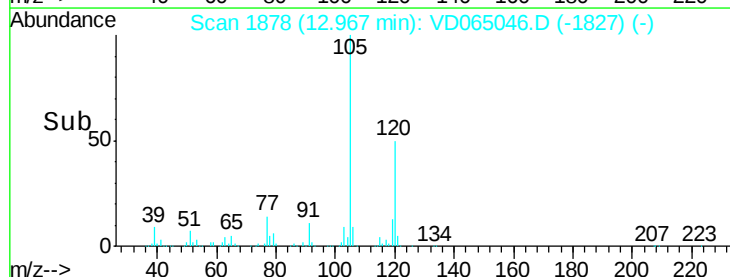
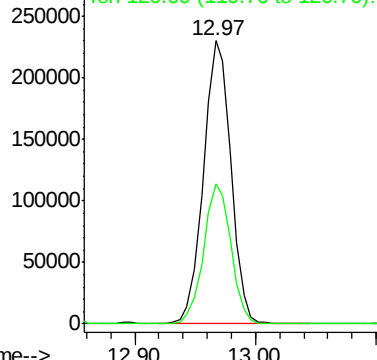
Ion Ratio Lower Upper

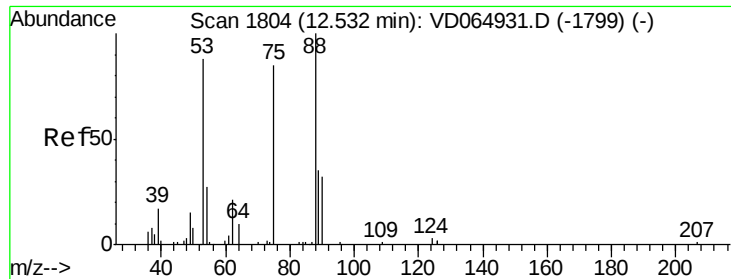
105 100

120 49.4 25.6 76.8



Abundance Ion 105.00 (104.70 to 105.70): VD064931.D (-1869) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 19.809 ug/l

RT: 12.54 min Scan# 1805

Delta R.T. 0.01 min

Lab File: VD065046.D

Acq: 03 Feb 2020 11:24

Instrument :

MSVOA_D

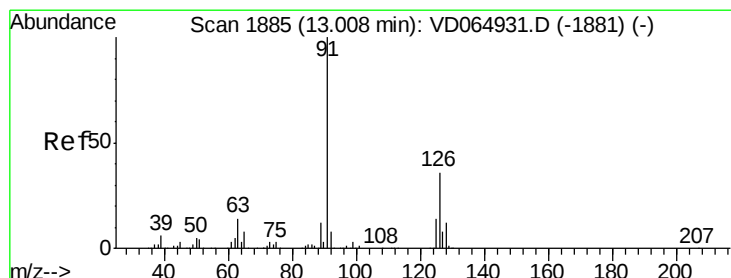
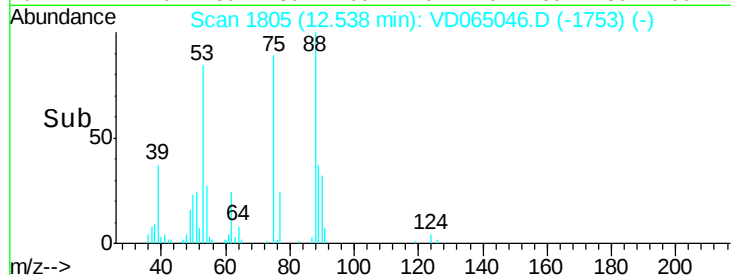
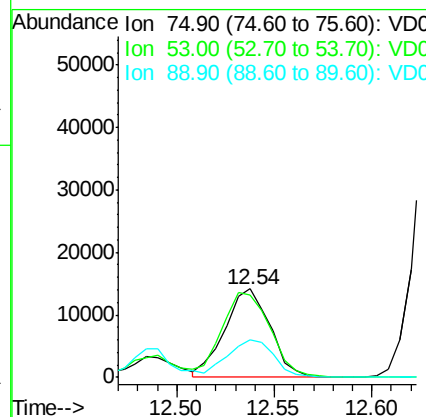
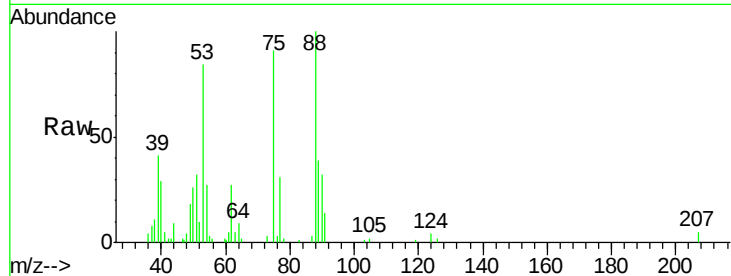
ClientSampleId :

VD0203SBS01

Tot Ion:	75	Resp:	22821
Ion	Ratio	Lower	Upper
75	100		
53	102.0	81.0	121.4
89	43.0	36.2	54.4

Manual Integrations
APPROVED

MMDadoda
2/4/2020 11:21:11 AM



#82

4-Chlorotoluene

Concen: 22.054 ug/l

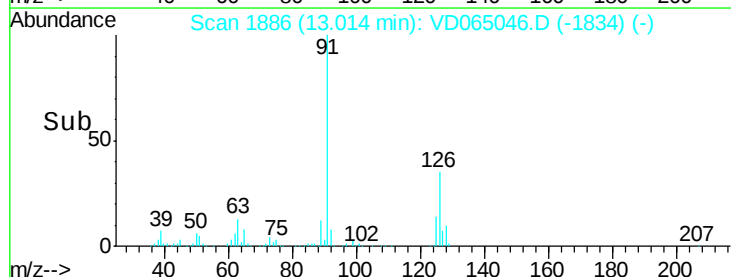
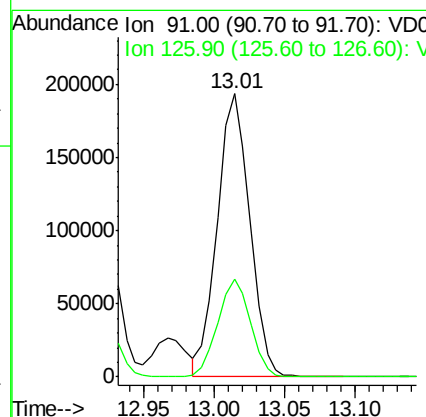
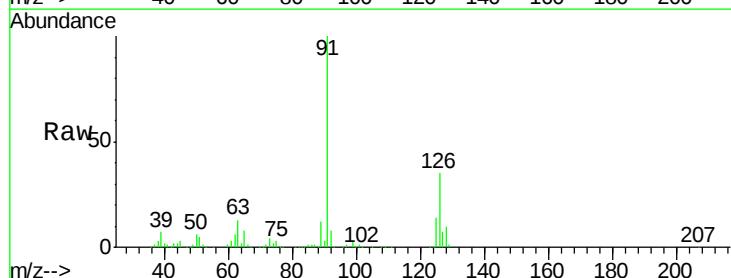
RT: 13.01 min Scan# 1886

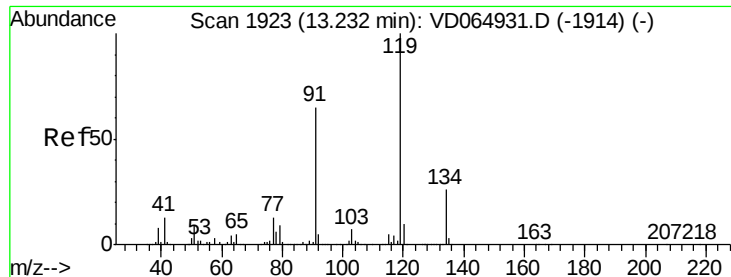
Delta R.T. 0.01 min

Lab File: VD065046.D

Acq: 03 Feb 2020 11:24

Tgt Ion:	91	Resp:	309079
Ion	Ratio	Lower	Upper
91	100		
126	34.8	18.0	54.0





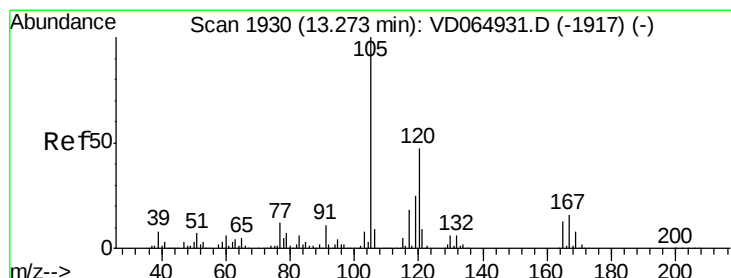
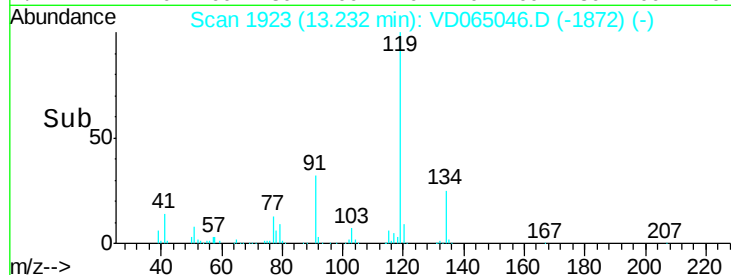
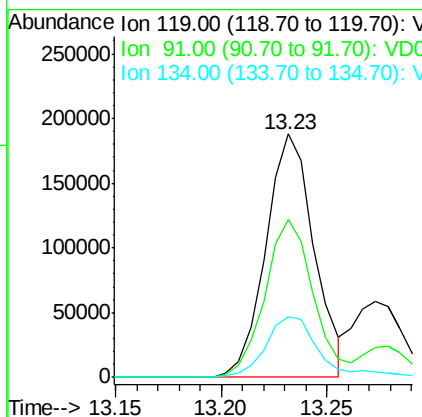
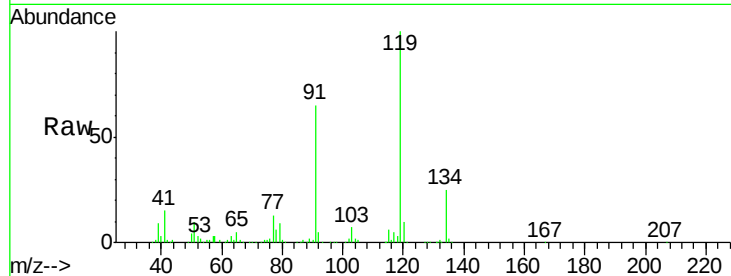
#83
 tert-Butylbenzene
 Concen: 21.239 ug/l
 RT: 13.23 min Scan# 1923
 Delta R.T. -0.00 min
 Lab File: VD065046.D
 Acq: 03 Feb 2020 11:24

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0203SBS01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	299199		
91	65.2	32.0	96.0	
134	27.6	13.9	41.6	

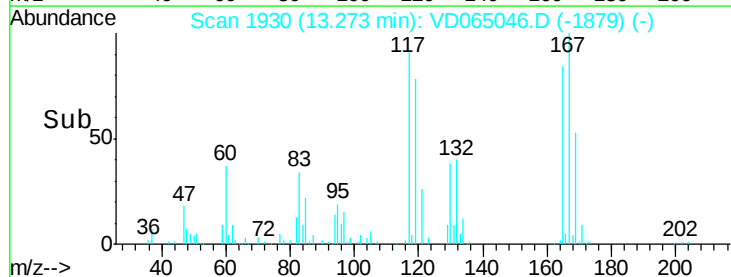
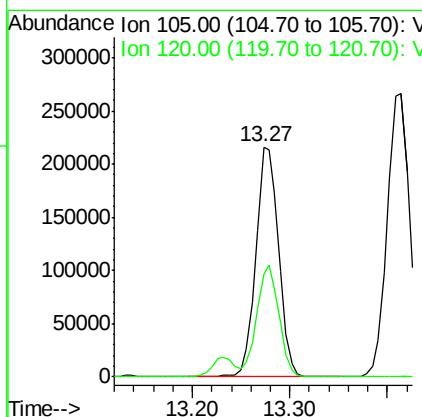
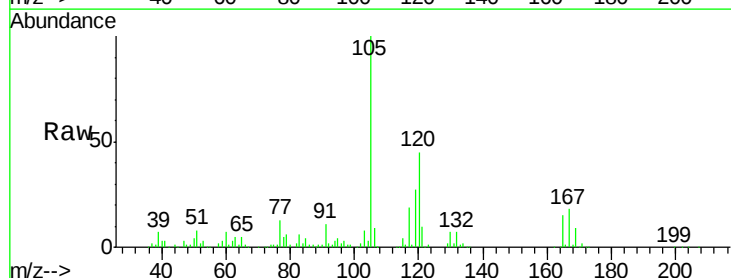
Manual Integrations
 APPROVED

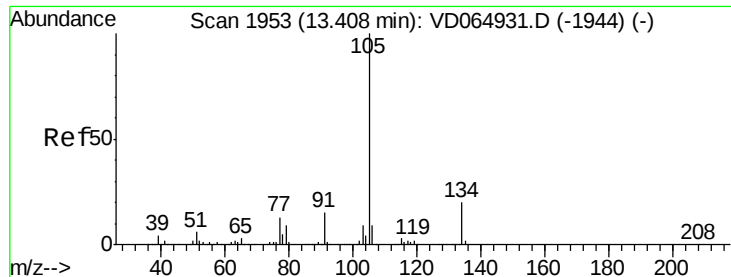
MMDadoda
 2/4/2020 11:21:11 AM



#84
 1,2,4-Trimethylbenzene
 Concen: 21.144 ug/l
 RT: 13.27 min Scan# 1930
 Delta R.T. -0.00 min
 Lab File: VD065046.D
 Acq: 03 Feb 2020 11:24

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	355554		
120	47.3	23.1	69.3	





#85

sec-Butylbenzene

Concen: 21.462 ug/l

RT: 13.41 min Scan# 1954

Delta R.T. 0.01 min

Lab File: VD065046.D

Acq: 03 Feb 2020 11:24

Instrument :

MSVOA_D

ClientSampleId :

VD0203SBS01

Tot Ion:105 Resp: 428076

Ion Ratio Lower Upper

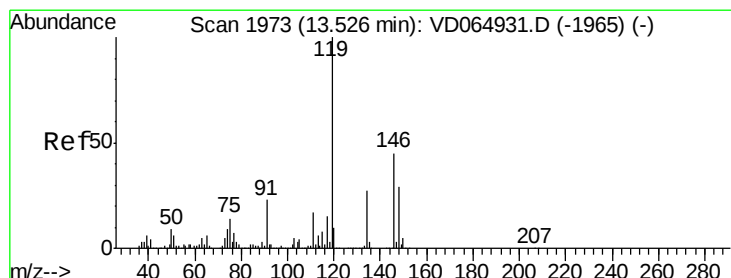
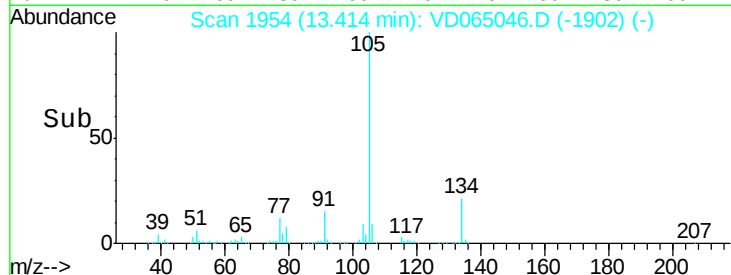
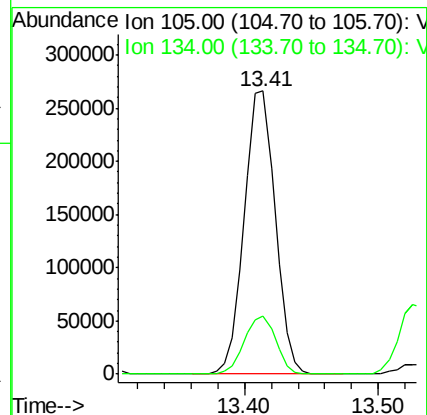
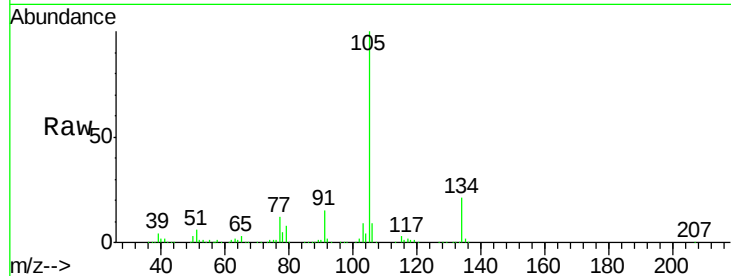
105 100

134 20.8 10.4 31.4

Manual Integrations
APPROVED

MMDadoda

2/4/2020 11:21:11 AM



#86

p-Isopropyltoluene

Concen: 21.159 ug/l

RT: 13.53 min Scan# 1973

Delta R.T. -0.00 min

Lab File: VD065046.D

Acq: 03 Feb 2020 11:24

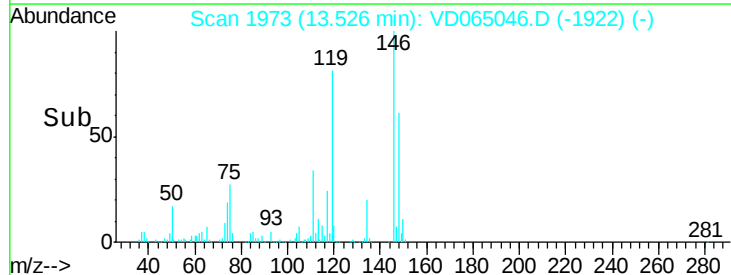
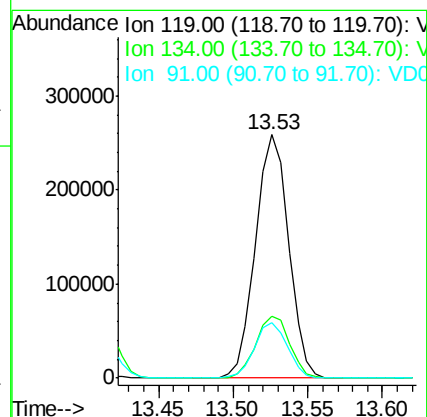
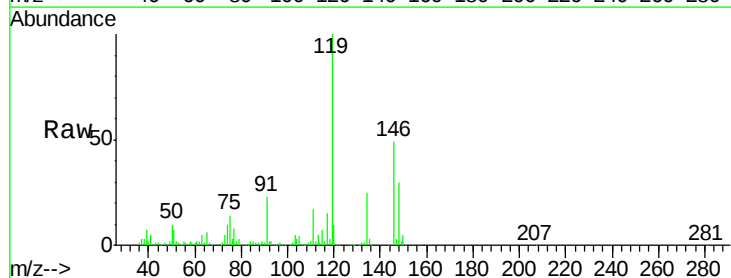
Tgt Ion:119 Resp: 394929

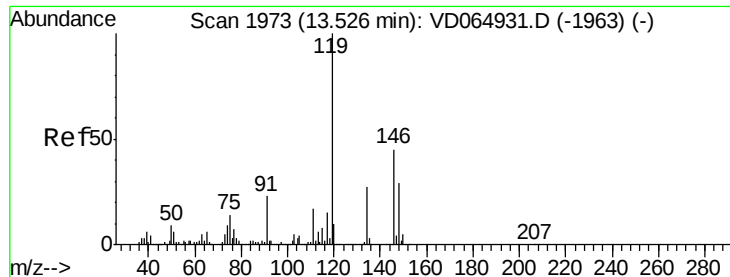
Ion Ratio Lower Upper

119 100

134 26.2 13.3 39.9

91 22.8 11.4 34.2





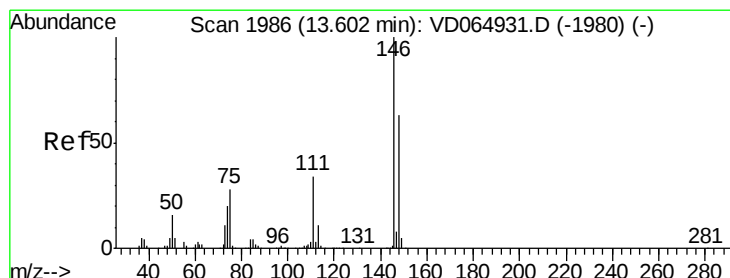
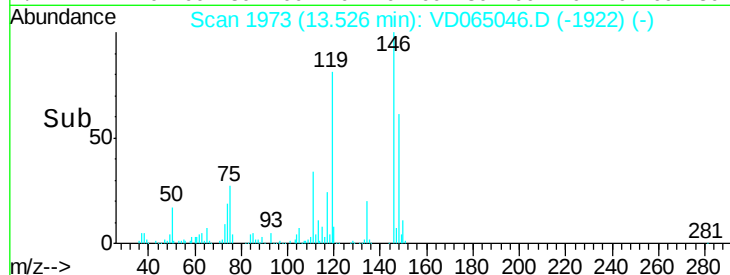
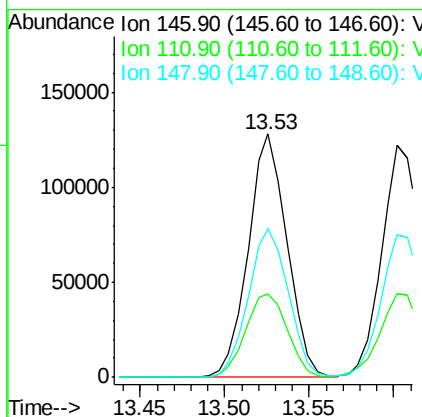
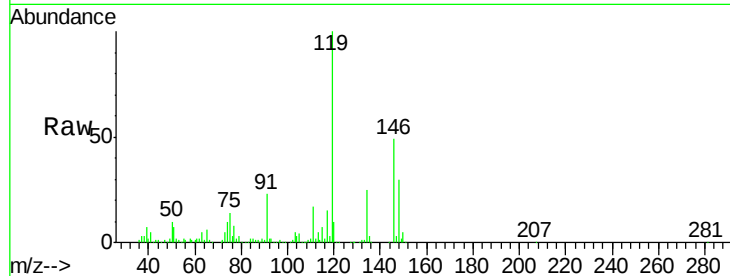
#87
 1,3-Dichlorobenzene
 Concen: 21.514 ug/l
 RT: 13.53 min Scan# 1973
 Delta R.T. -0.00 min
 Lab File: VD065046.D
 Acq: 03 Feb 2020 11:24

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0203SBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	36.9	18.9	56.9
148	63.2	32.6	97.7

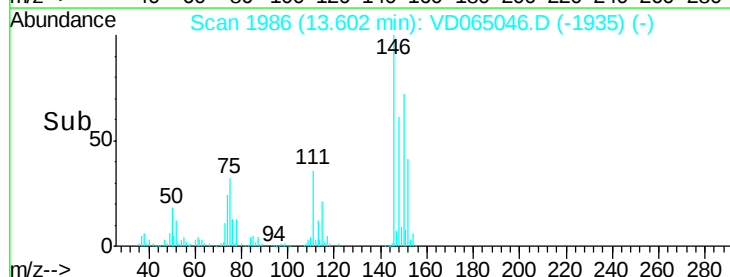
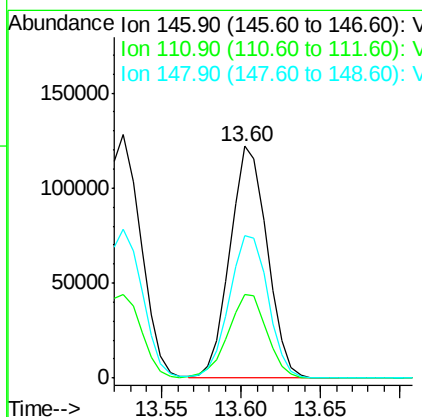
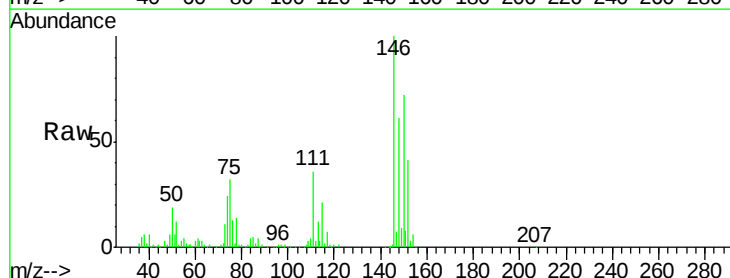
Manual Integrations
 APPROVED

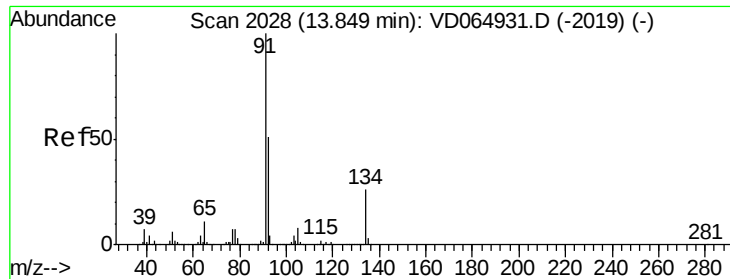
MMDadoda
 2/4/2020 11:21:11 AM



#88
 1,4-Dichlorobenzene
 Concen: 21.101 ug/l
 RT: 13.60 min Scan# 1986
 Delta R.T. -0.00 min
 Lab File: VD065046.D
 Acq: 03 Feb 2020 11:24

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.8	18.2	54.6
148	64.2	32.0	96.0





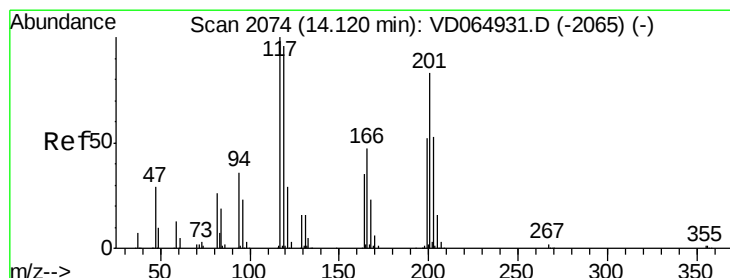
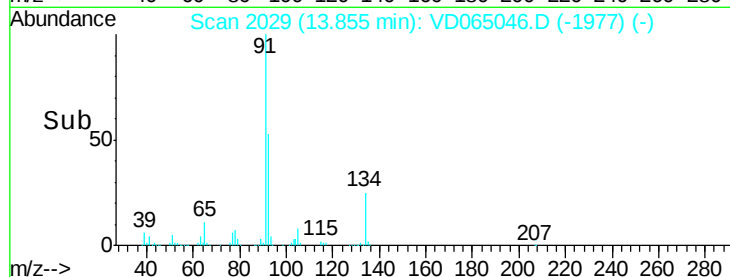
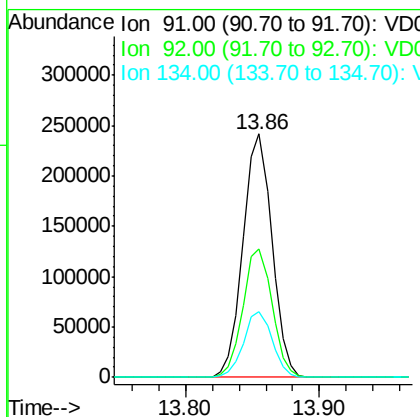
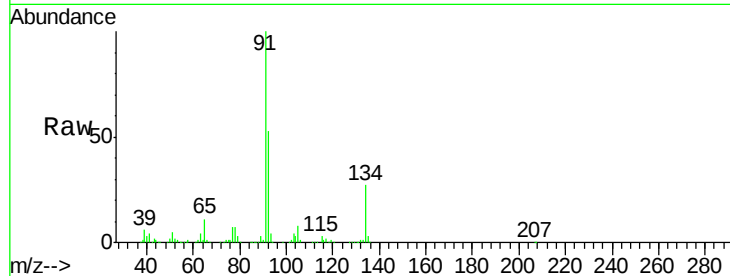
#89
n-Butylbenzene
Concen: 21.273 ug/l
RT: 13.86 min Scan# 2029
Delta R.T. 0.01 min
Lab File: VD065046.D
Acq: 03 Feb 2020 11:24

Instrument :
MSVOA_D
ClientSampleId :
VD0203SBS01

Tot Ion	Ratio	Lower	Upper
91	100		
92	53.1	26.4	79.0
134	26.8	13.3	39.9

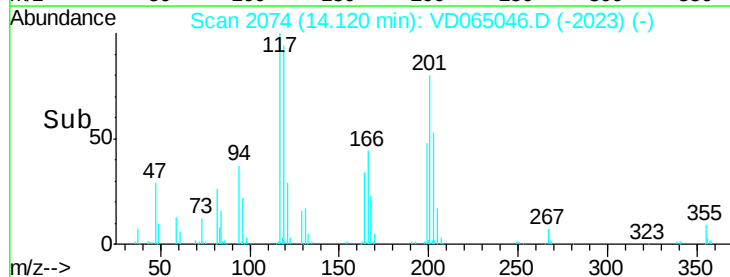
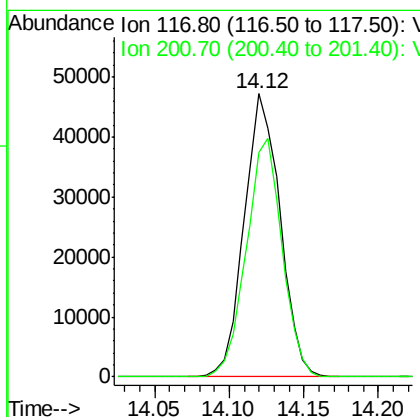
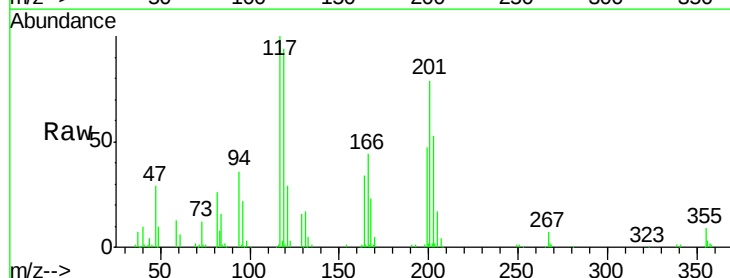
Manual Integrations
APPROVED

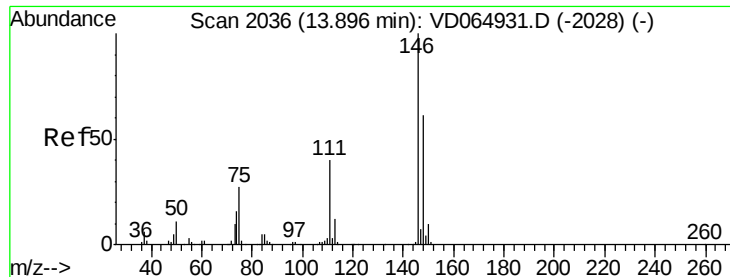
MMDadoda
2/4/2020 11:21:11 AM



#90
Hexachloroethane
Concen: 21.755 ug/l
RT: 14.12 min Scan# 2074
Delta R.T. -0.00 min
Lab File: VD065046.D
Acq: 03 Feb 2020 11:24

Tgt Ion	Ratio	Lower	Upper
117	100		
201	83.9	41.1	123.3





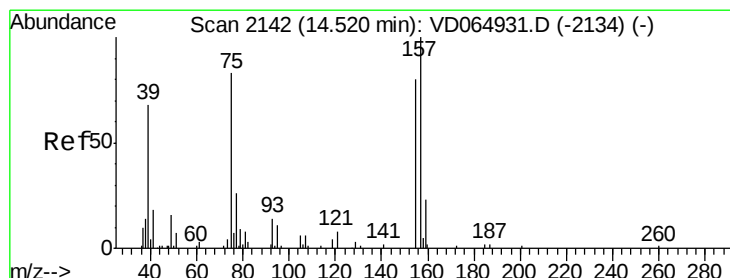
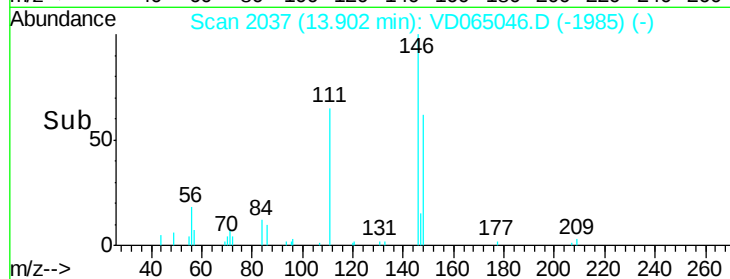
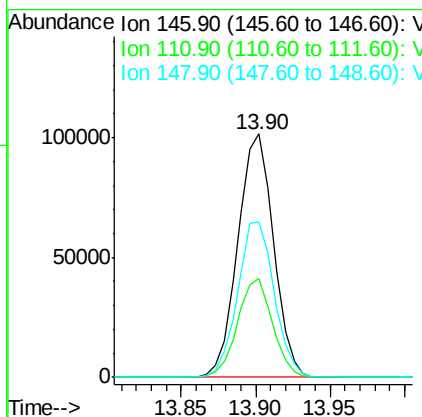
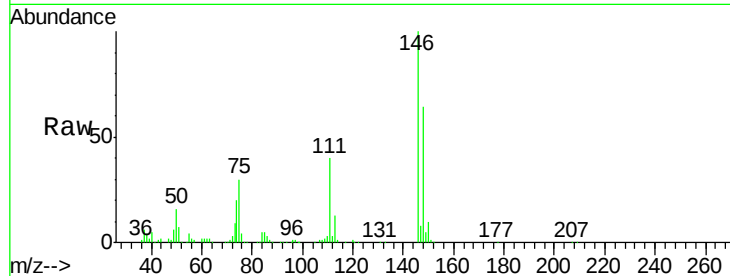
#91
 1,2-Dichlorobenzene
 Concen: 20.921 ug/l
 RT: 13.90 min Scan# 2037
 Delta R.T. 0.01 min
 Lab File: VD065046.D
 Acq: 03 Feb 2020 11:24

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0203SBS01

Tot Ion	Ratio	Resp	Lower	Upper
146	100	168900		
111	39.8	19.4	58.2	
148	65.4	31.6	95.0	

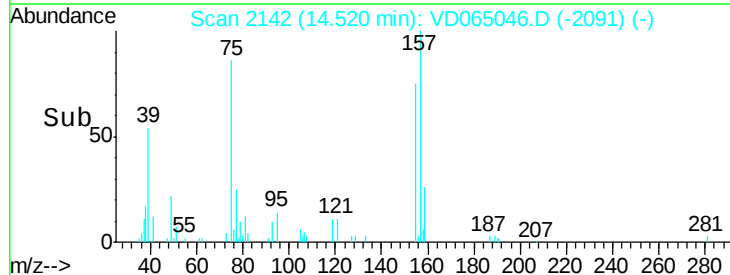
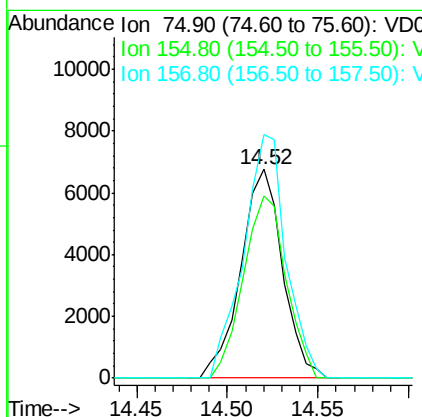
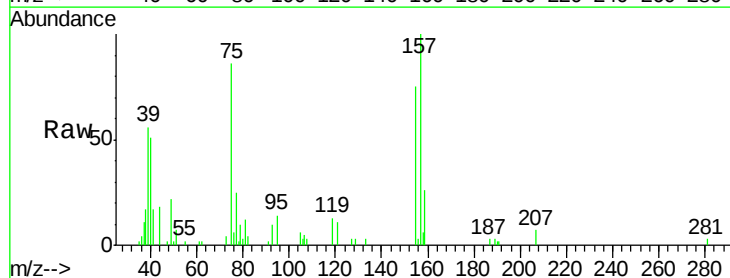
Manual Integrations
 APPROVED

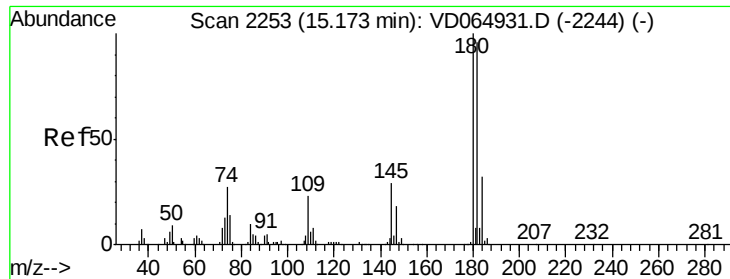
MMDadoda
 2/4/2020 11:21:11 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 19.915 ug/l
 RT: 14.52 min Scan# 2142
 Delta R.T. -0.00 min
 Lab File: VD065046.D
 Acq: 03 Feb 2020 11:24

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	10850		
155	88.9	44.9	134.7	
157	118.5	58.9	176.6	





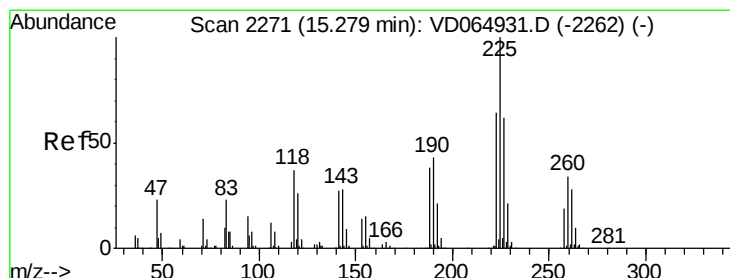
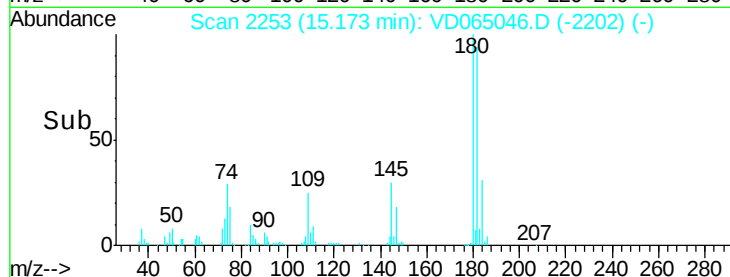
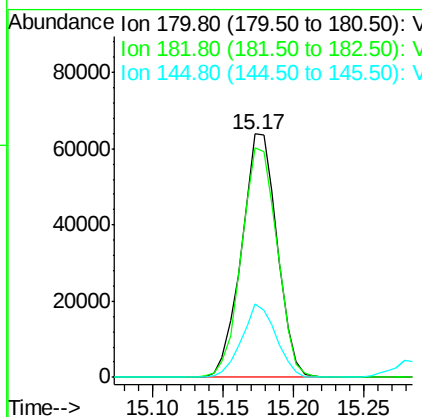
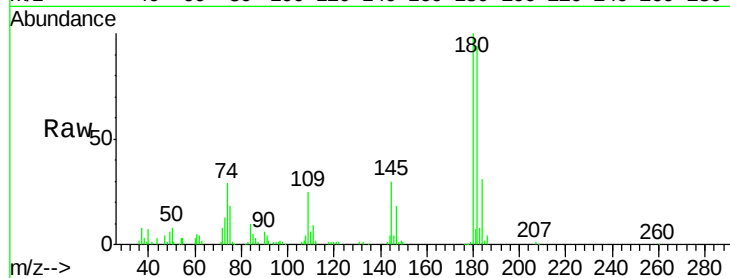
#93
 1,2,4-Trichlorobenzene
 Concen: 20.192 ug/l
 RT: 15.17 min Scan# 2253
 Delta R.T. -0.00 min
 Lab File: VD065046.D
 Acq: 03 Feb 2020 11:24

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0203SBS01

Tot Ion	Ratio	Lower	Upper
180	100		
182	94.7	47.1	141.4
145	29.1	14.1	42.3

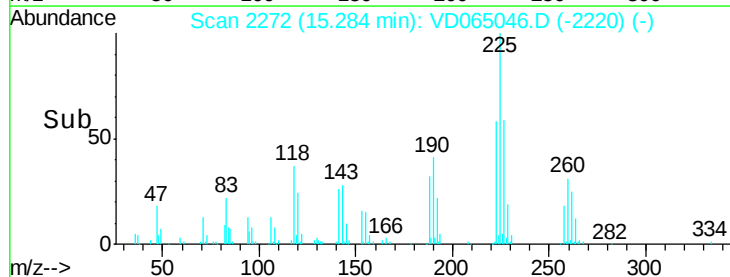
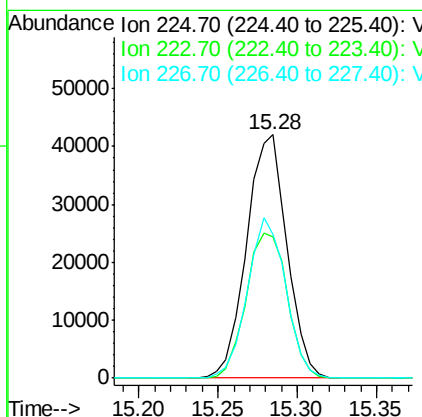
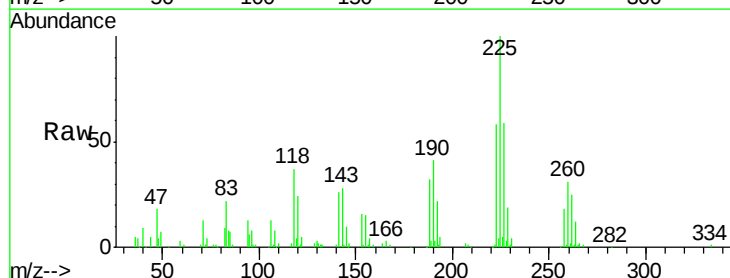
Manual Integrations
 APPROVED

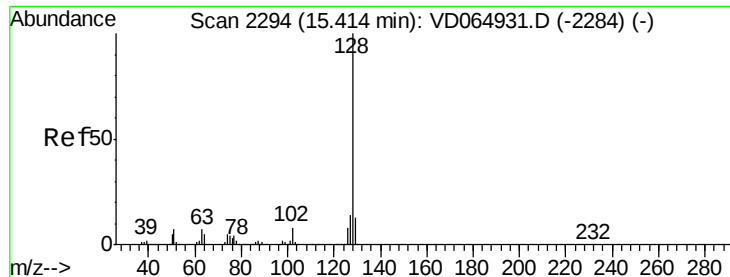
MMDadoda
 2/4/2020 11:21:11 AM



#94
 Hexachlorobutadiene
 Concen: 20.996 ug/l
 RT: 15.28 min Scan# 2272
 Delta R.T. 0.01 min
 Lab File: VD065046.D
 Acq: 03 Feb 2020 11:24

Tgt Ion	Ratio	Lower	Upper
225	100		
223	61.2	32.4	97.2
227	62.4	31.9	95.9





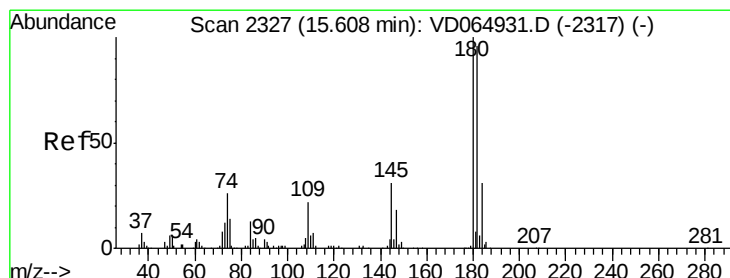
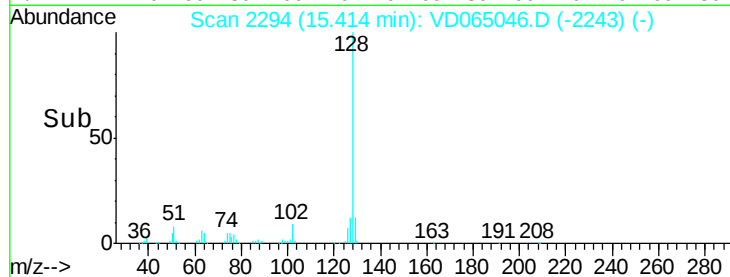
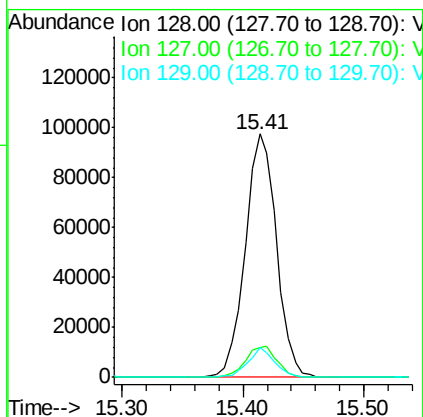
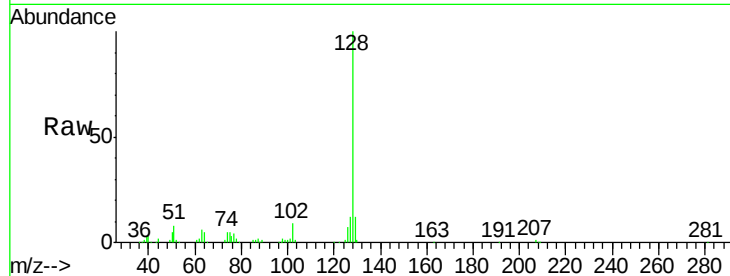
#95
Naphthalene
Concen: 19.488 ug/l
RT: 15.41 min Scan# 2294
Delta R.T. -0.00 min
Lab File: VD065046.D
Acq: 03 Feb 2020 11:24

Instrument :
MSVOA_D
ClientSampleId :
VD0203SBS01

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.6	15.8
129	10.6	9.3	13.9

Manual Integrations
APPROVED

MMDadoda
2/4/2020 11:21:11 AM



#96
1,2,3-Trichlorobenzene
Concen: 19.907 ug/l
RT: 15.61 min Scan# 2328
Delta R.T. 0.01 min
Lab File: VD065046.D
Acq: 03 Feb 2020 11:24

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.9	47.3	141.8
145	30.6	14.6	43.8

