

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD012820\
 Data File : VD064975.D
 Acq On : 28 Jan 2020 12:04
 Operator : VA/SY
 Sample : VD0128SBS01
 Misc : 5.00G/5.00ml/MSVOA D/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0128SBS01

Manual Integrations
 APPROVED

MMDadoda
 1/29/2020 12:55:54 PM

Quant Time: Jan 29 02:27:17 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	7.99	168	457630	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	681415	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	604205	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	291226	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.33	65	221221	50.40	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.80%	
35) Dibromofluoromethane	7.92	113	221846	51.81	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.62%	
50) Toluene-d8	10.34	98	860486	52.06	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.12%	
62) 4-Bromofluorobenzene	12.64	95	261521	51.71	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.42%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.99	85	75926	22.023	ug/l	99
3) Chloromethane	2.21	50	107525	21.280	ug/l	99
4) Vinyl Chloride	2.35	62	123277	21.242	ug/l	100
5) Bromomethane	2.76	94	81153	20.788	ug/l	95
6) Chloroethane	2.93	64	78706	20.571	ug/l	98
7) Trichlorofluoromethane	3.27	101	193589	21.599	ug/l	97
8) Diethyl Ether	3.71	74	39109	19.329	ug/l	93
9) 1,1,2-Trichlorotrifluoroet	4.08	101	91799	22.015	ug/l	99
10) Methyl Iodide	4.30	142	87986	19.878	ug/l	99
11) Tert butyl alcohol	5.24	59	22279	91.844	ug/l #	94
12) 1,1-Dichloroethene	4.07	96	86643	21.750	ug/l #	78
13) Acrolein	3.92	56	26067	85.720	ug/l	91
14) Allyl chloride	4.71	41	136470	21.480	ug/l	99
15) Acrylonitrile	5.43	53	87303	99.640	ug/l	99
16) Acetone	4.17	43	88516	85.189	ug/l	97
17) Carbon Disulfide	4.40	76	279307	21.304	ug/l	99
18) Methyl Acetate	4.73	43	41858	20.360	ug/l	100
19) Methyl tert-butyl Ether	5.48	73	174728	19.630	ug/l	99
20) Methylene Chloride	4.96	84	97744	18.921	ug/l	97
21) trans-1,2-Dichloroethene	5.47	96	97605	21.267	ug/l	96
22) Diisopropyl ether	6.37	45	263729	20.829	ug/l	97
23) Vinyl Acetate	6.31	43	721557	97.332	ug/l	98
24) 1,1-Dichloroethane	6.27	63	166713	21.445	ug/l	98
25) 2-Butanone	7.22	43	108766	91.714	ug/l	95
26) 2,2-Dichloropropane	7.21	77	153112	21.713	ug/l	97
27) cis-1,2-Dichloroethene	7.21	96	100990	20.616	ug/l	100
28) Bromochloromethane	7.55	49	54290	17.462	ug/l	100
29) Tetrahydrofuran	7.57	42	69261	94.655	ug/l	99
30) Chloroform	7.71	83	167789	20.879	ug/l	98
31) Cyclohexane	7.99	56	159301	20.830	ug/l	97
32) 1,1,1-Trichloroethane	7.90	97	157837	21.112	ug/l	97
36) 1,1-Dichloropropene	8.11	75	138915	21.141	ug/l	98
37) Ethyl Acetate	7.30	43	51530	18.986	ug/l	100
38) Carbon Tetrachloride	8.10	117	145607	20.966	ug/l	97

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD012820\
 Data File : VD064975.D
 Acq On : 28 Jan 2020 12:04
 Operator : VA/SY
 Sample : VD0128SBS01
 Misc : 5.00G/5.00ml/MSVOA D/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleID :
 VD0128SBS01

Manual Integrations
 APPROVED

MMDadoda
 1/29/2020 12:55:54 PM

Quant Time: Jan 29 02:27:17 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	158997	20.697	ug/l	93
40) Benzene	8.36	78	372450	20.581	ug/l	100
41) Methacrylonitrile	7.53	41	29388	20.100	ug/l	94
42) 1,2-Dichloroethane	8.43	62	107091	19.866	ug/l	99
43) Isopropyl Acetate	8.46	43	97792	18.968	ug/l	100
44) Trichloroethene	9.11	130	105367	20.804	ug/l	99
45) 1,2-Dichloropropane	9.39	63	88908	20.266	ug/l	96
46) Dibromomethane	9.48	93	47822	19.966	ug/l	99
47) Bromodichloromethane	9.67	83	128634	20.639	ug/l	93
48) Methyl methacrylate	9.46	41	45763	19.289	ug/l	99
49) 1,4-Dioxane	9.47	88	9773	351.817	ug/l #	85
51) 4-Methyl-2-Pentanone	10.23	43	238310	92.381	ug/l	100
52) Toluene	10.41	92	240695	20.630	ug/l	99
53) t-1,3-Dichloropropene	10.63	75	115987	19.537	ug/l	99
54) cis-1,3-Dichloropropene	10.09	75	138315	19.899	ug/l	97
55) 1,1,2-Trichloroethane	10.80	97	64779	20.078	ug/l	95
56) Ethyl methacrylate	10.67	69	73308	19.001	ug/l	98
57) 1,3-Dichloropropane	10.95	76	109337	19.759	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.94	63	125178	97.662	ug/l	99
59) 2-Hexanone	10.99	43	163318	91.784	ug/l	98
60) Dibromochloromethane	11.14	129	86353	20.026	ug/l	98
61) 1,2-Dibromoethane	11.25	107	61227	19.709	ug/l	99
64) Tetrachloroethene	10.88	164	89560	20.512	ug/l	96
65) Chlorobenzene	11.68	112	251581	20.508	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.75	131	92075	19.957	ug/l	98
67) Ethyl Benzene	11.75	91	442379	20.312	ug/l	96
68) m/p-Xylenes	11.86	106	348738	41.588	ug/l	99
69) o-Xylene	12.19	106	150564	20.231	ug/l	99
70) Styrene	12.20	104	268554	20.257	ug/l	98
71) Bromoform	12.37	173	48659	18.973	ug/l #	99
73) Isopropylbenzene	12.48	105	421735	21.187	ug/l	100
74) N-amyl acetate	12.30	43	83928	18.843	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.74	83	64497	19.279	ug/l	97
76) 1,2,3-Trichloropropane	12.79	75	45033m	18.630	ug/l	
77) Bromobenzene	12.77	156	100935	20.725	ug/l	99
78) n-propylbenzene	12.83	91	500400	21.139	ug/l	99
79) 2-Chlorotoluene	12.91	91	275214	21.193	ug/l	99
80) 1,3,5-Trimethylbenzene	12.97	105	351355	21.540	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.54	75	22170	19.584	ug/l	97
82) 4-Chlorotoluene	13.01	91	290372	21.085	ug/l	100
83) tert-Butylbenzene	13.23	119	299781	21.656	ug/l	97
84) 1,2,4-Trimethylbenzene	13.28	105	342951	20.754	ug/l	99
85) sec-Butylbenzene	13.41	105	418746	21.364	ug/l	99
86) p-Isopropyltoluene	13.53	119	379208	20.675	ug/l	99
87) 1,3-Dichlorobenzene	13.53	146	188736	20.197	ug/l	100
88) 1,4-Dichlorobenzene	13.60	146	192267	20.730	ug/l	98
89) n-Butylbenzene	13.86	91	352012	21.031	ug/l	100
90) Hexachloroethane	14.12	117	73439	20.763	ug/l	98
91) 1,2-Dichlorobenzene	13.90	146	160798	20.269	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	14.52	75	10356	19.343	ug/l	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD012820\
Data File : VD064975.D
Acq On : 28 Jan 2020 12:04
Operator : VA/SY
Sample : VD0128SBS01
Misc : 5.00G/5.00ml/MSVOA D/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
VD0128SBS01

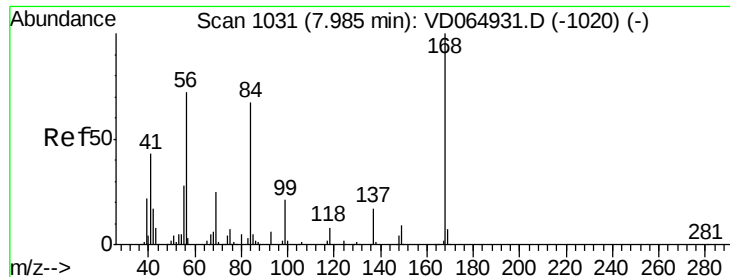
Manual Integrations
APPROVED

MMDadoda
1/29/2020 12:55:54 PM

Quant Time: Jan 29 02:27:17 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)
93) 1,2,4-Trichlorobenzene	15.18	180	114760	20.910	ug/l	99
94) Hexachlorobutadiene	15.28	225	72318	20.832	ug/l	99
95) Naphthalene	15.41	128	170023	19.195	ug/l	100
96) 1,2,3-Trichlorobenzene	15.61	180	95756	20.122	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.99 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD064975.D

Acq: 28 Jan 2020 12:04

Instrument :

MSVOA_D

ClientSampleId :

VD0128SBS01

Tot Ion:168 Resp: 457630

Ion Ratio Lower Upper

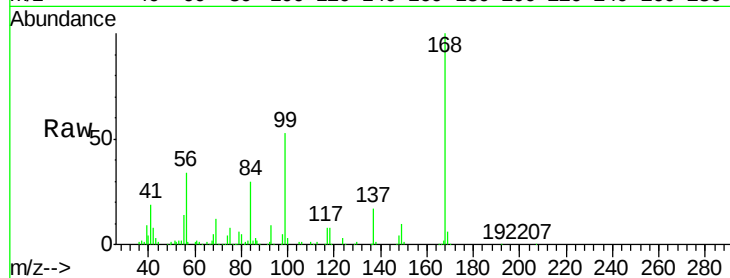
168 100

99 52.9 43.3 64.9

Manual Integrations
APPROVED

MMDadoda

1/29/2020 12:55:54 PM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.99

200000

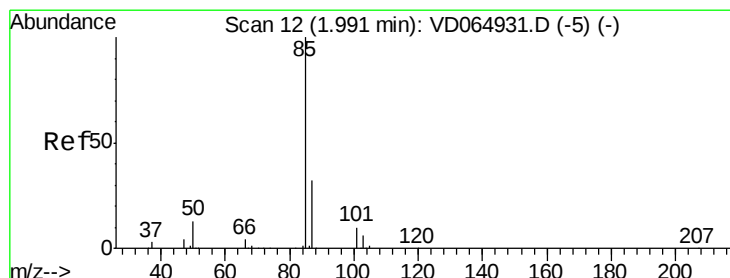
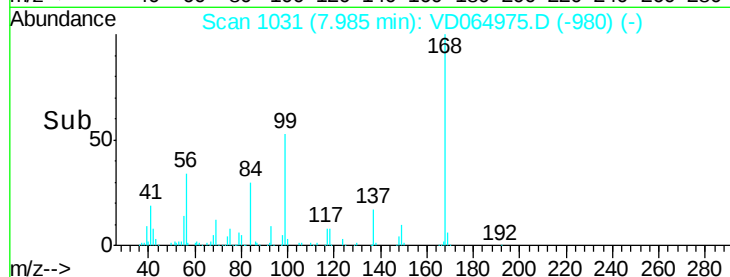
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 22.023 ug/l

RT: 1.99 min Scan# 12

Delta R.T. 0.00 min

Lab File: VD064975.D

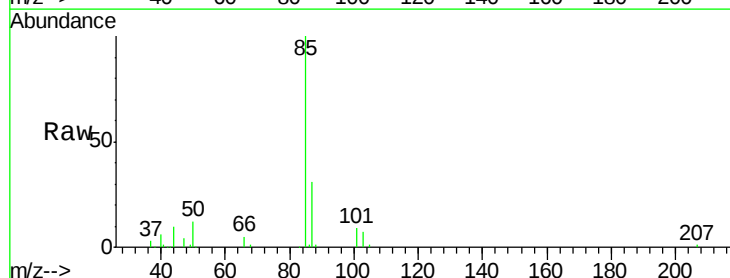
Acq: 28 Jan 2020 12:04

Tgt Ion: 85 Resp: 75926

Ion Ratio Lower Upper

85 100

87 31.2 15.8 47.3



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.99

60000

50000

40000

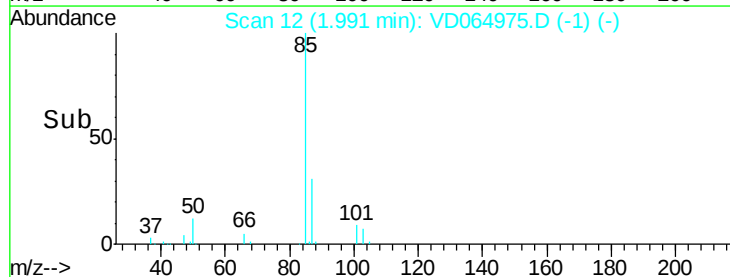
30000

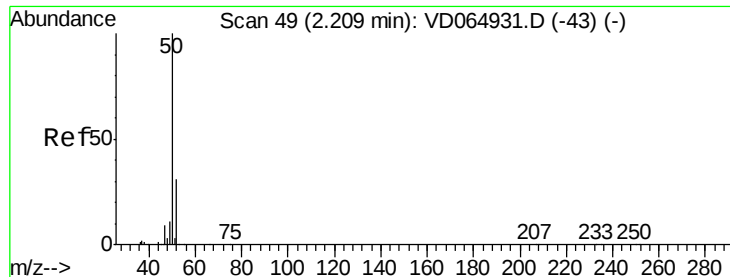
20000

10000

0

Time-->





#3

Chloromethane

Concen: 21.280 ug/l

RT: 2.21 min Scan# 50

Delta R.T. 0.01 min

Lab File: VD064975.D

Acq: 28 Jan 2020 12:04

Instrument :

MSVOA_D

ClientSampleId :

VD0128SBS01

Tot Ion: 50 Resp: 107525

Ion Ratio Lower Upper

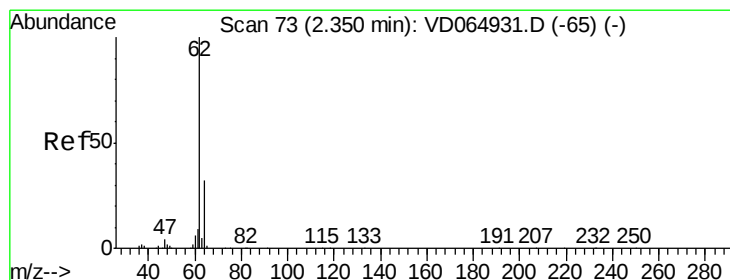
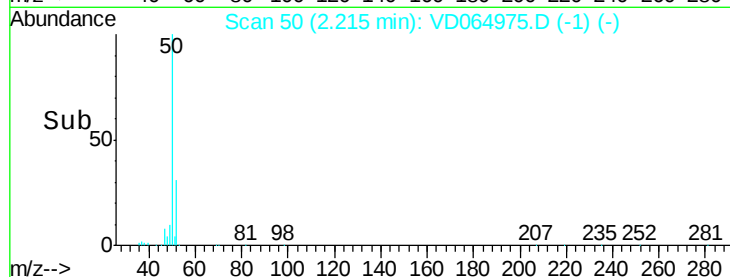
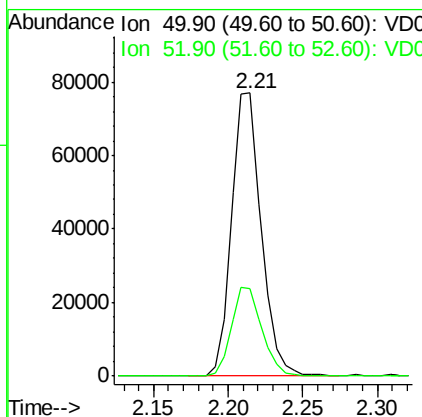
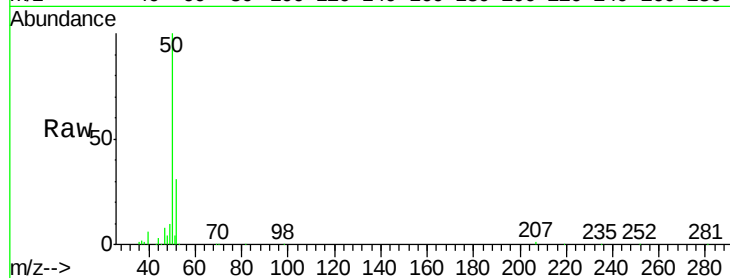
50 100

52 31.0 24.6 36.8

Manual Integrations
APPROVED

MMDadoda

1/29/2020 12:55:54 PM



#4

Vinyl Chloride

Concen: 21.242 ug/l

RT: 2.35 min Scan# 73

Delta R.T. 0.00 min

Lab File: VD064975.D

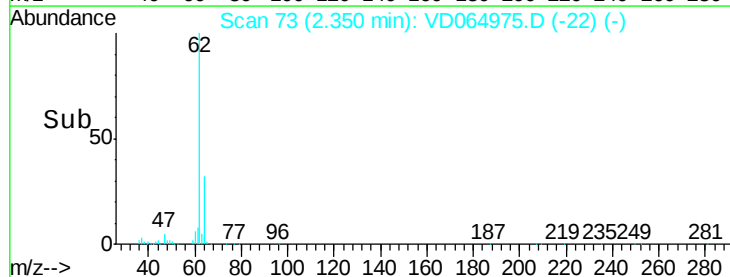
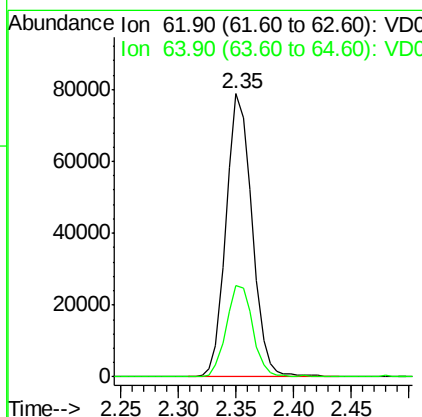
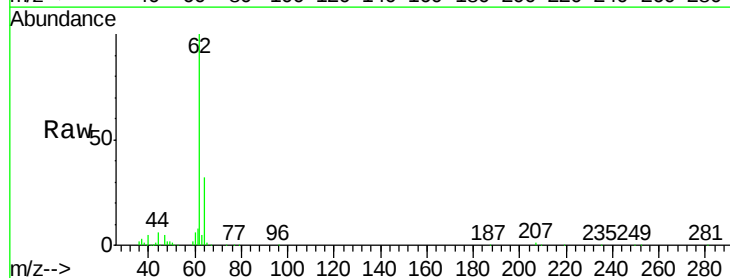
Acq: 28 Jan 2020 12:04

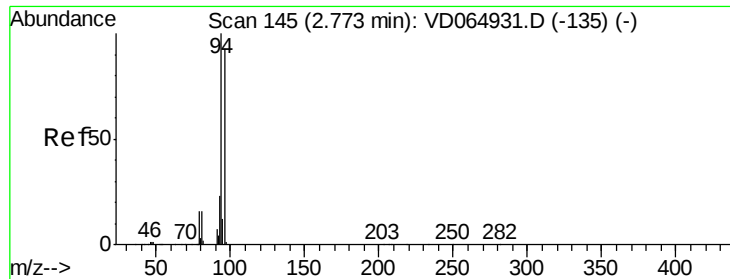
Tgt Ion: 62 Resp: 123277

Ion Ratio Lower Upper

62 100

64 32.1 25.6 38.4





#5

Bromomethane

Concen: 20.788 ug/l

RT: 2.76 min Scan# 143

Delta R.T. -0.01 min

Lab File: VD064975.D

Acq: 28 Jan 2020 12:04

Instrument :

MSVOA_D

ClientSampleId :

VD0128SBS01

Tot Ion: 94 Resp: 81153

Ion Ratio Lower Upper

94 100

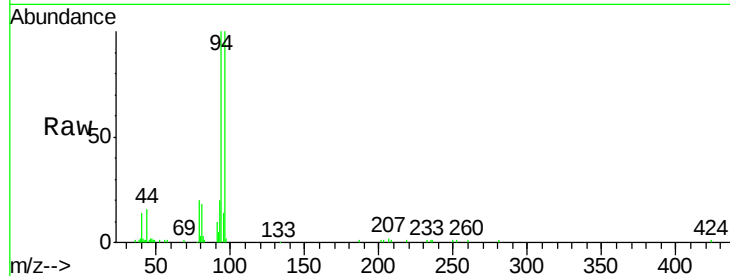
96 98.5 74.6 111.8

Manual Integrations

APPROVED

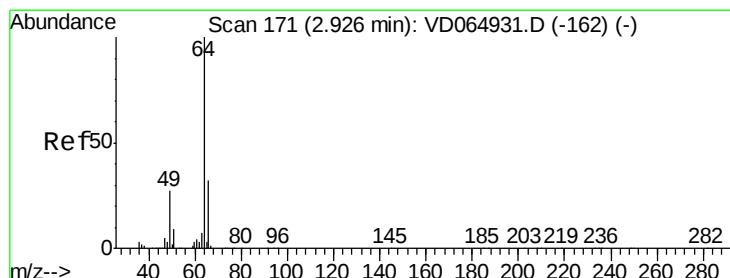
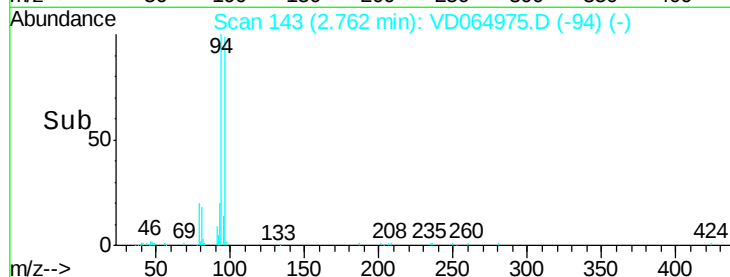
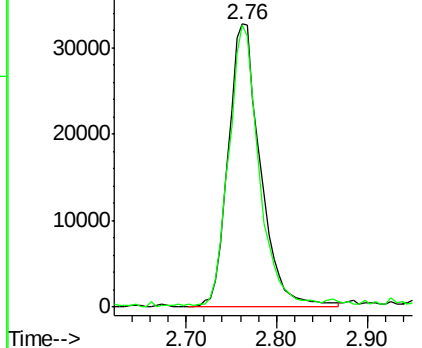
MMDadoda

1/29/2020 12:55:54 PM



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



#6

Chloroethane

Concen: 20.571 ug/l

RT: 2.93 min Scan# 171

Delta R.T. 0.00 min

Lab File: VD064975.D

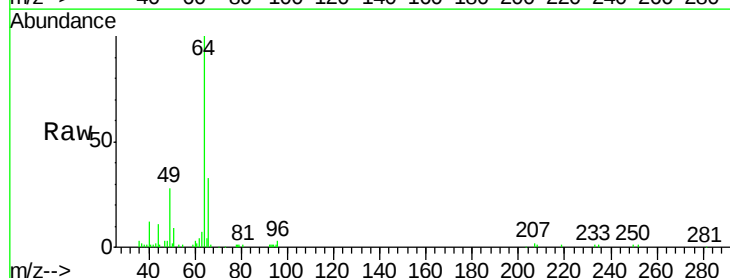
Acq: 28 Jan 2020 12:04

Tgt Ion: 64 Resp: 78706

Ion Ratio Lower Upper

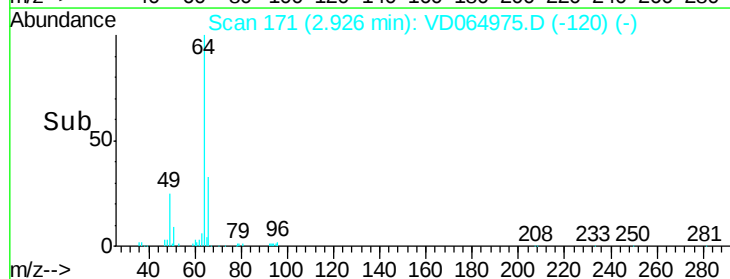
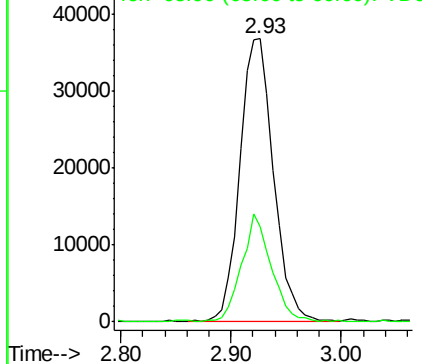
64 100

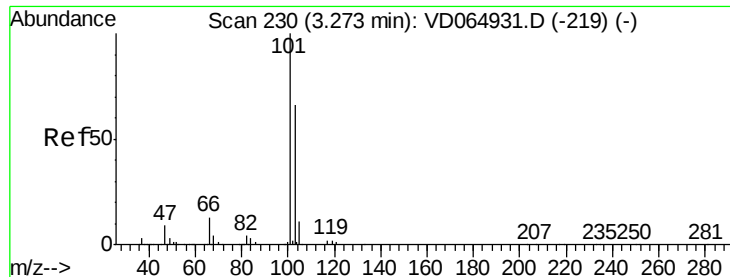
66 33.0 25.3 37.9



Abundance Ion 63.90 (63.60 to 64.60): VDC

Ion 65.90 (65.60 to 66.60): VDC





#7

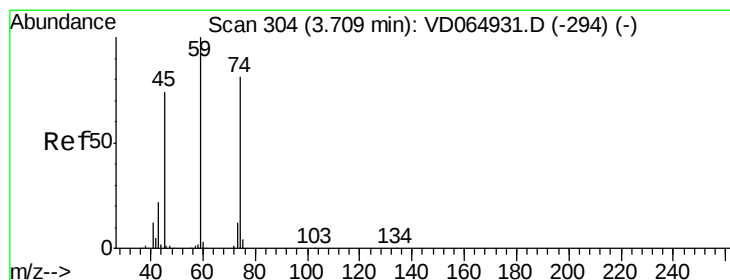
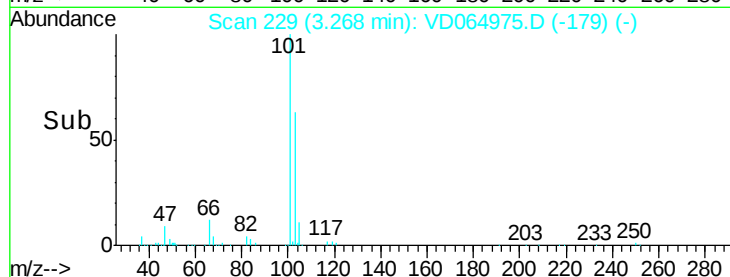
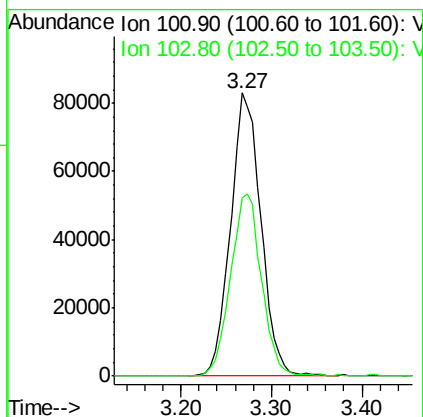
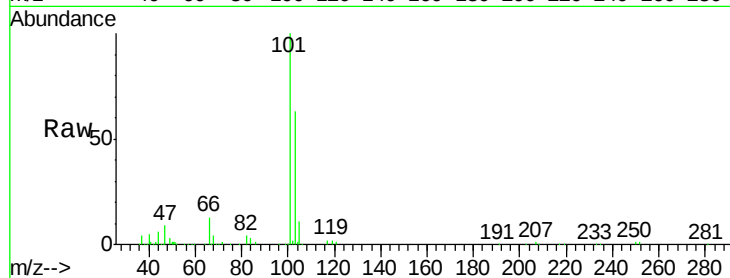
Trichlorofluoromethane
 Concen: 21.599 ug/l
 RT: 3.27 min Scan# 229
 Delta R.T. -0.01 min
 Lab File: VD064975.D
 Acq: 28 Jan 2020 12:04

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0128SBS01

Tot Ion	Ratio	Lower	Upper
101	100		
103	63.1	52.5	78.7

Manual Integrations
 APPROVED

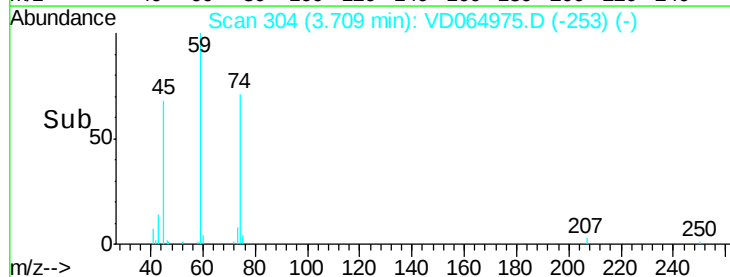
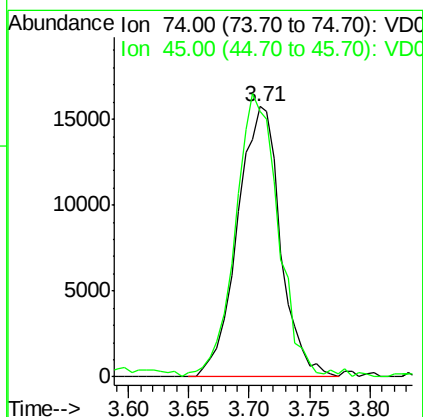
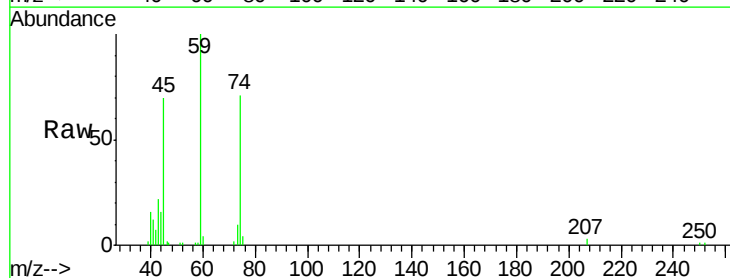
MMDadoda
 1/29/2020 12:55:54 PM

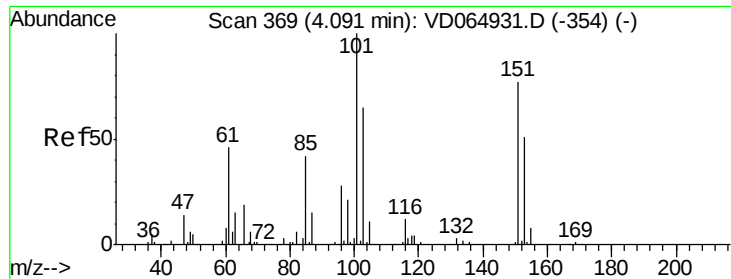


#8

Diethyl Ether
 Concen: 19.329 ug/l
 RT: 3.71 min Scan# 304
 Delta R.T. 0.00 min
 Lab File: VD064975.D
 Acq: 28 Jan 2020 12:04

Tgt Ion	Ratio	Lower	Upper
74	100		
45	104.1	48.5	145.5





#9

1,1,2-Trichlorotrifluoroethane

Concen: 22.015 ug/l

RT: 4.08 min Scan# 367

Delta R.T. -0.01 min

Lab File: VD064975.D

Acq: 28 Jan 2020 12:04

Instrument :

MSVOA_D

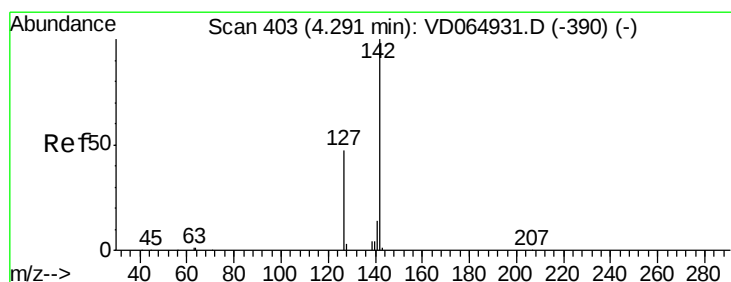
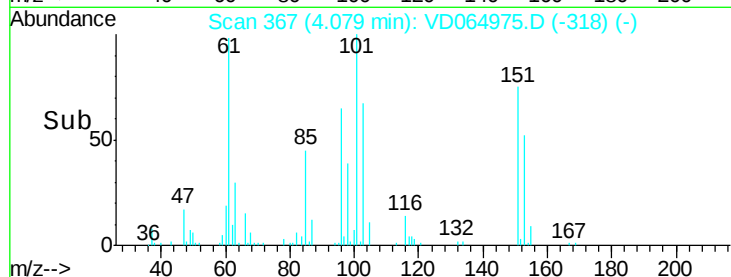
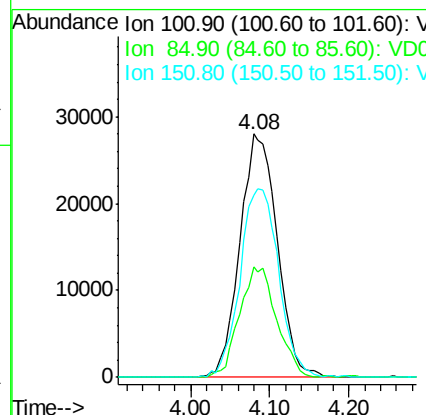
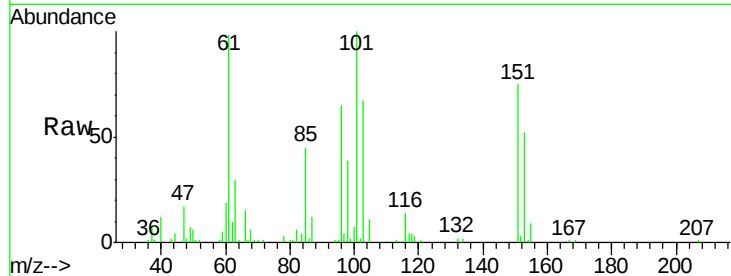
ClientSampleId :

VD0128SBS01

Tot Ion:	101	Resp:	91799
Ion Ratio	Lower	Upper	
101	100		
85	45.0	35.0	52.4
151	80.1	64.6	96.8

Manual Integrations
APPROVED

MMDadoda
1/29/2020 12:55:54 PM



#10

Methyl Iodide

Concen: 19.878 ug/l

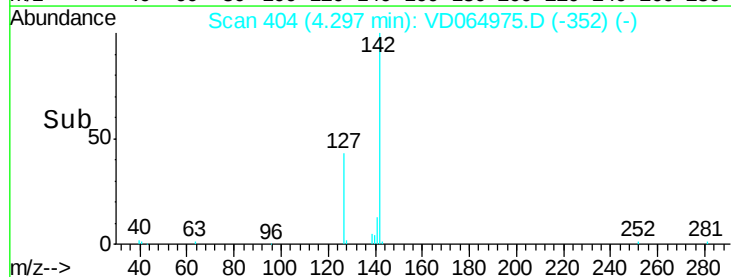
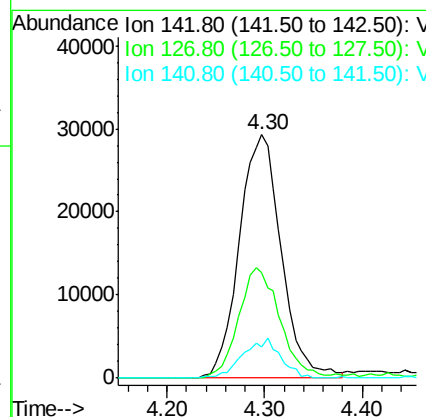
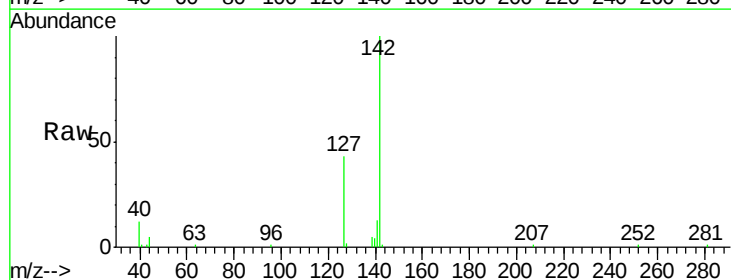
RT: 4.30 min Scan# 404

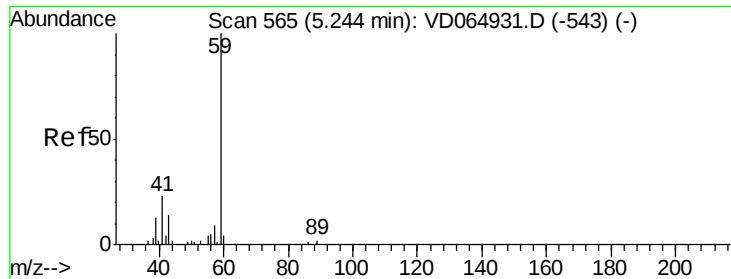
Delta R.T. 0.01 min

Lab File: VD064975.D

Acq: 28 Jan 2020 12:04

Tgt Ion:	142	Resp:	87986
Ion Ratio	Lower	Upper	
142	100		
127	44.6	36.2	54.2
141	14.6	11.6	17.4





#11

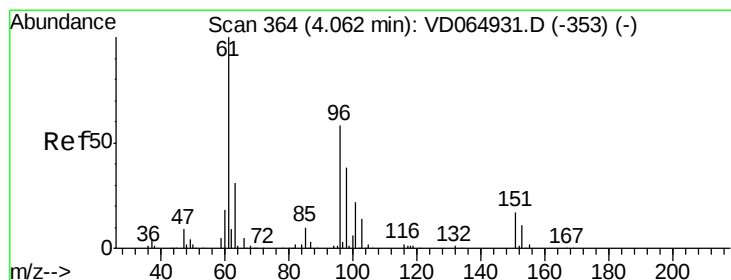
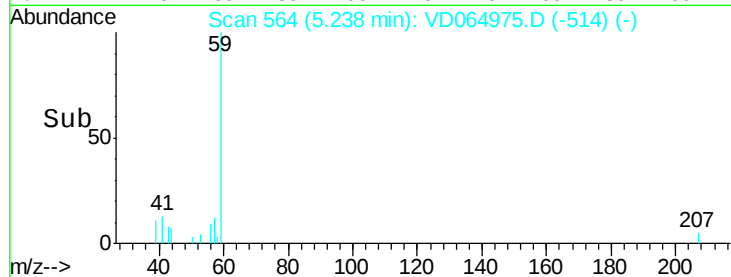
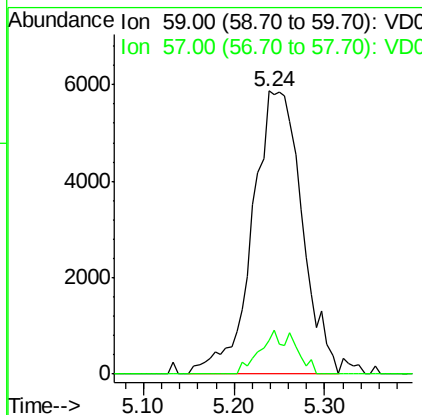
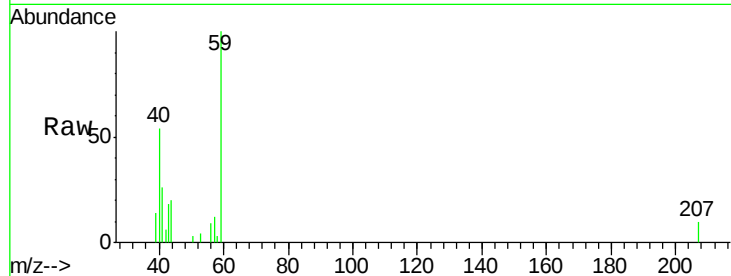
Tert butyl alcohol
 Concen: 91.844 ug/l
 RT: 5.24 min Scan# 564
 Delta R.T. -0.01 min
 Lab File: VD064975.D
 Acq: 28 Jan 2020 12:04

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0128SBS01

Tot Ion: 59 Resp: 22279
 Ion Ratio Lower Upper
 59 100
 57 7.2 7.7 11.5#

Manual Integrations
 APPROVED

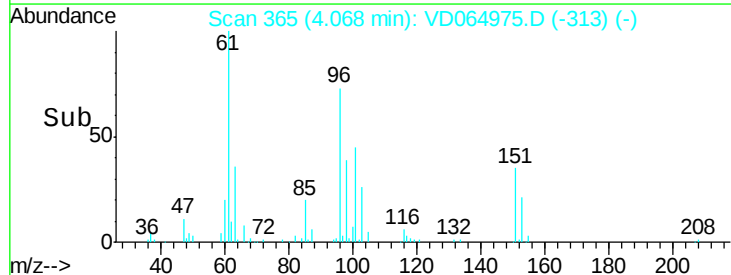
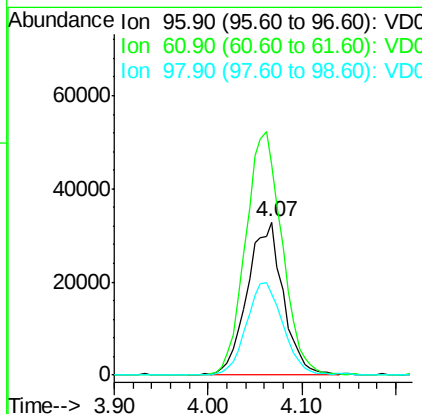
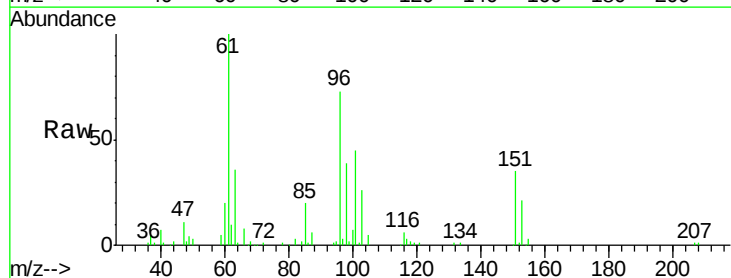
MMDadoda
 1/29/2020 12:55:54 PM

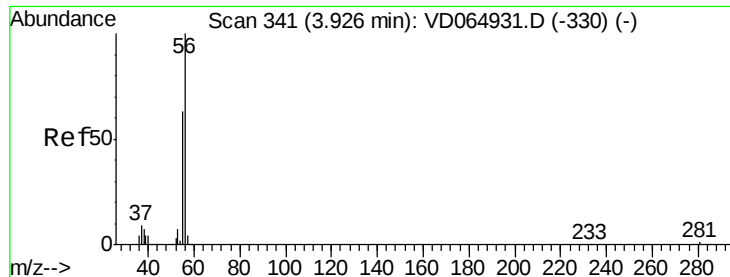


#12

1,1-Dichloroethene
 Concen: 21.750 ug/l
 RT: 4.07 min Scan# 365
 Delta R.T. 0.01 min
 Lab File: VD064975.D
 Acq: 28 Jan 2020 12:04

Tgt Ion: 96 Resp: 86643
 Ion Ratio Lower Upper
 96 100
 61 136.9 137.0 205.4#
 98 52.9 52.1 78.1





#13

Acrolein

Concen: 85.720 ug/l

RT: 3.92 min Scan# 340

Delta R.T. -0.01 min

Lab File: VD064975.D

Acq: 28 Jan 2020 12:04

Instrument :

MSVOA_D

ClientSampleId :

VD0128SBS01

Tot Ion: 56 Resp: 26067

Ion Ratio Lower Upper

56 100

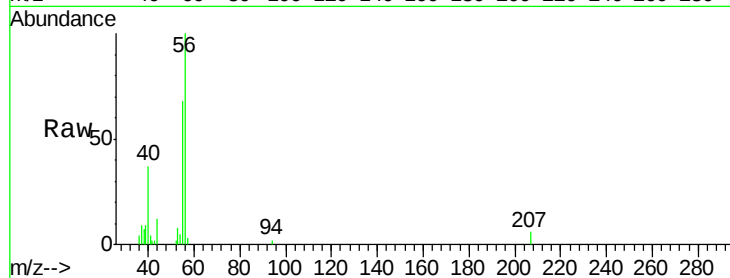
55 66.9 59.7 89.5

Manual Integrations

APPROVED

MMDadoda

1/29/2020 12:55:54 PM



Abundance Ion 56.00 (55.70 to 56.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

12000

10000

8000

6000

4000

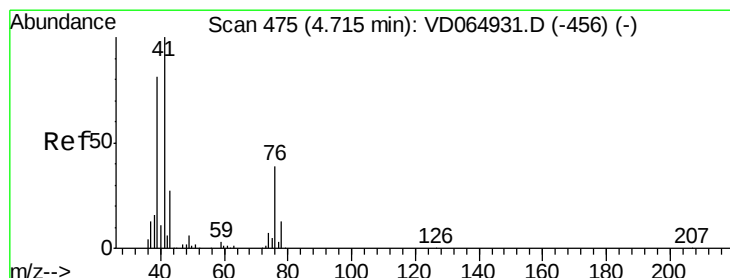
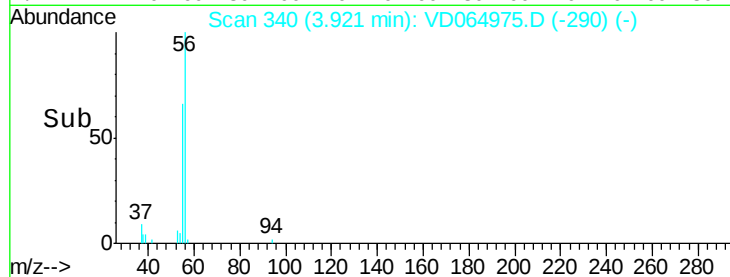
2000

0

Time-->

3.85 3.90 3.95 4.00

3.92



#14

Allyl chloride

Concen: 21.480 ug/l

RT: 4.71 min Scan# 474

Delta R.T. -0.01 min

Lab File: VD064975.D

Acq: 28 Jan 2020 12:04

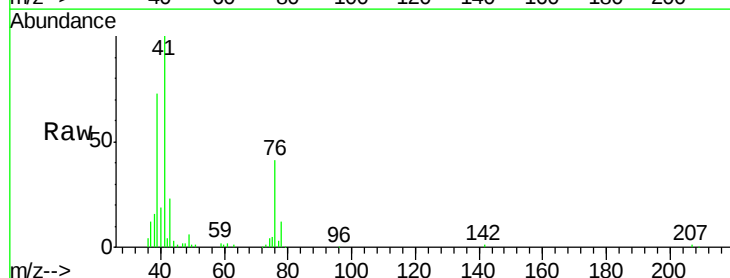
Tgt Ion: 41 Resp: 136470

Ion Ratio Lower Upper

41 100

39 76.5 62.0 93.0

76 37.8 29.3 43.9



Abundance Ion 41.00 (40.70 to 41.70): VDC

Ion 39.00 (38.70 to 39.70): VDC

Ion 75.90 (75.60 to 76.60): VDC

60000

50000

40000

30000

20000

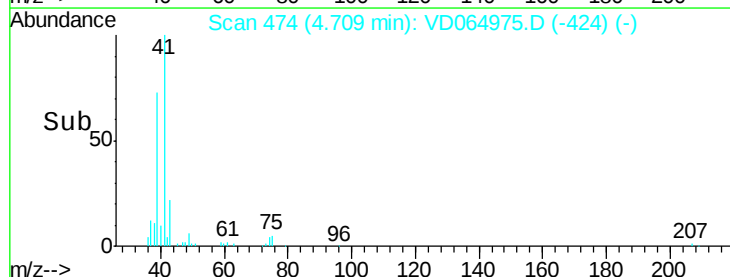
10000

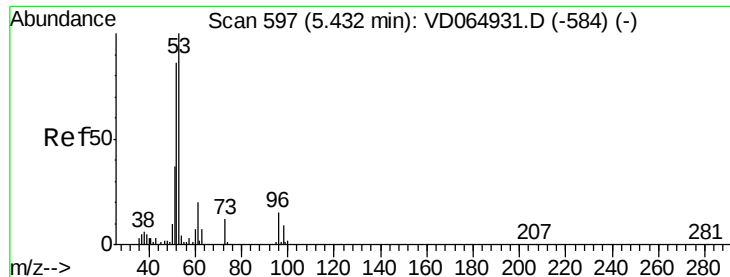
0

Time-->

4.50 4.60 4.70 4.80

4.71





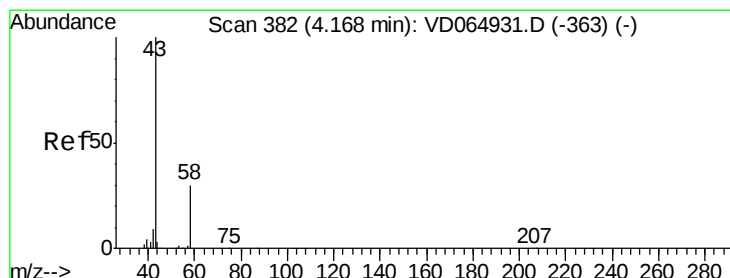
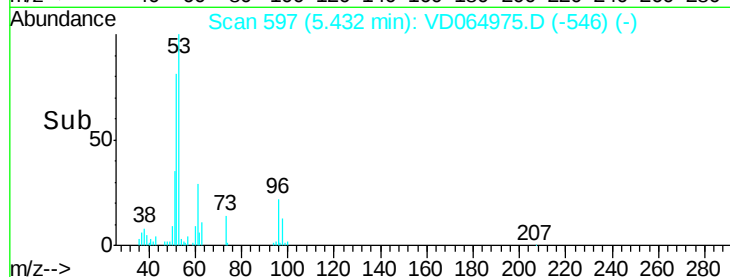
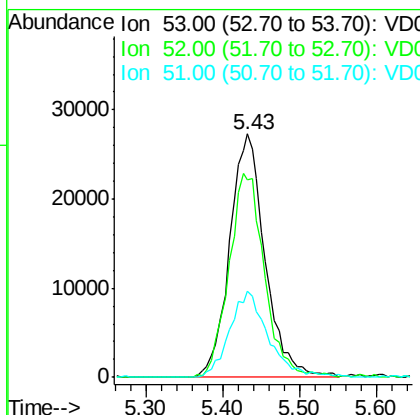
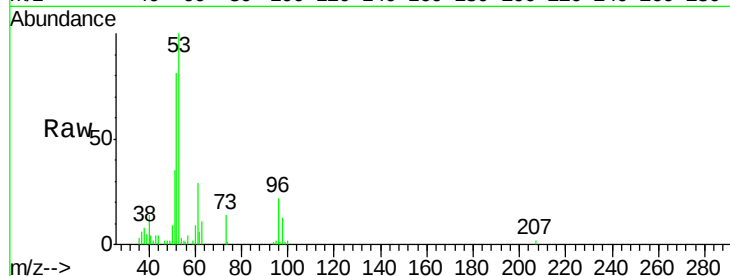
#15
Acrylonitrile
Concen: 99.640 ug/l
RT: 5.43 min Scan# 597
Delta R.T. 0.00 min
Lab File: VD064975.D
Acq: 28 Jan 2020 12:04

Instrument :
MSVOA_D
ClientSampleId :
VD0128SBS01

Tot Ion	Ratio	Lower	Upper
53	100		
52	84.4	66.7	100.1
51	38.8	31.1	46.7

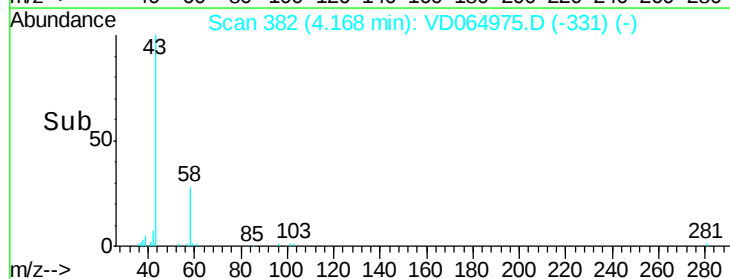
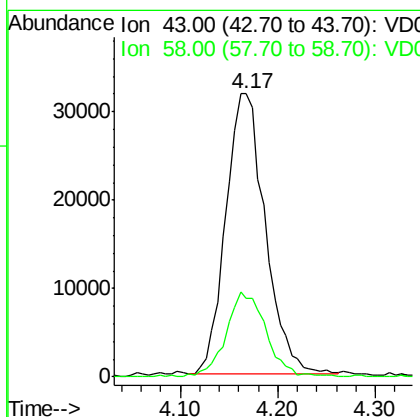
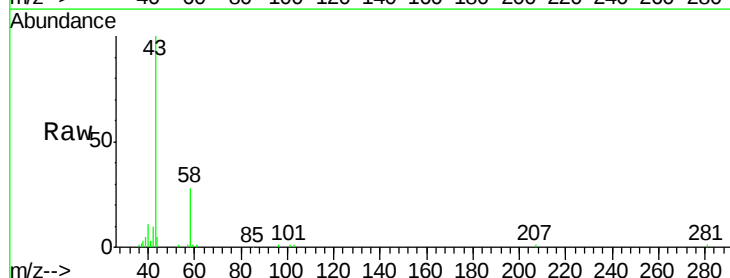
Manual Integrations
APPROVED

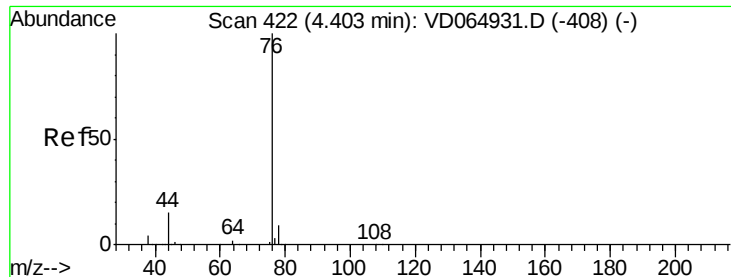
MMDadoda
1/29/2020 12:55:54 PM



#16
Acetone
Concen: 85.189 ug/l
RT: 4.17 min Scan# 382
Delta R.T. 0.00 min
Lab File: VD064975.D
Acq: 28 Jan 2020 12:04

Tgt Ion	Ratio	Lower	Upper
43	100		
58	28.3	23.8	35.8





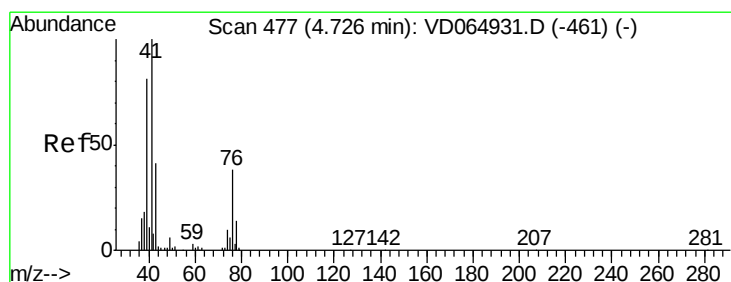
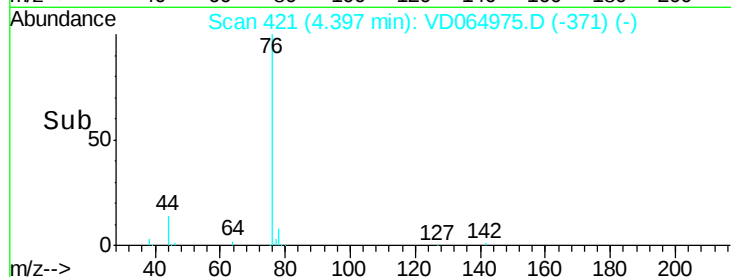
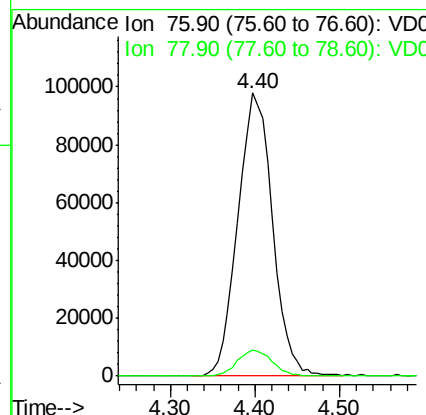
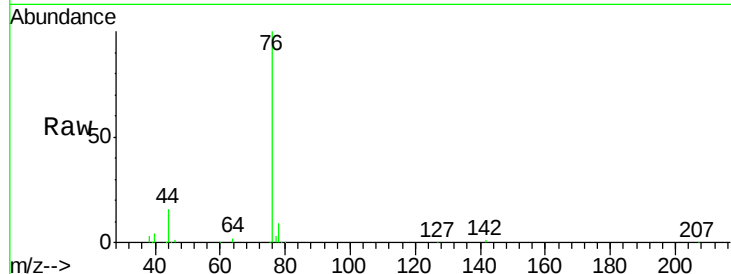
#17
Carbon Disulfide
Concen: 21.304 ug/l
RT: 4.40 min Scan# 421
Delta R.T. -0.01 min
Lab File: VD064975.D
Acq: 28 Jan 2020 12:04

Instrument :
MSVOA_D
ClientSampleId :
VD0128SBS01

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.2	7.1	10.7

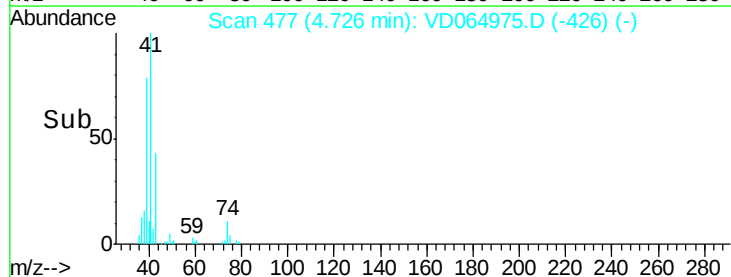
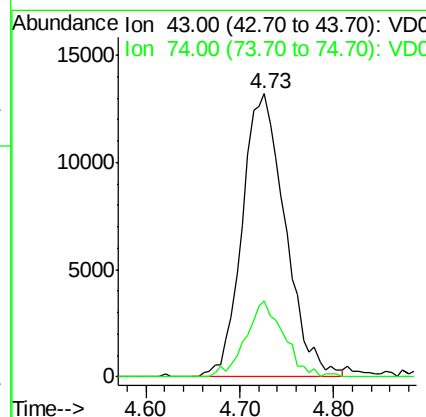
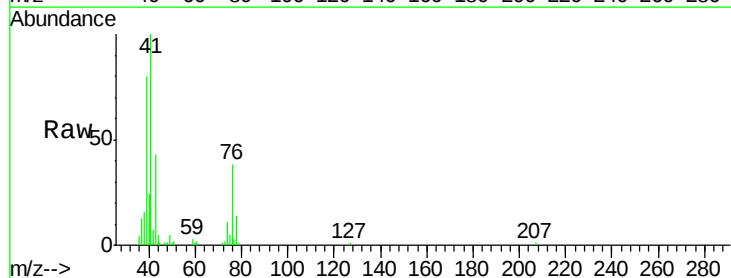
Manual Integrations
APPROVED

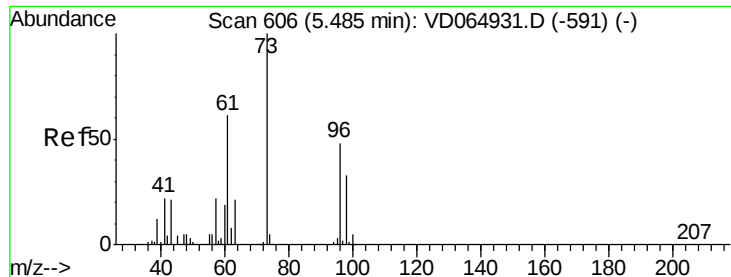
MMDadoda
1/29/2020 12:55:54 PM



#18
Methyl Acetate
Concen: 20.360 ug/l
RT: 4.73 min Scan# 477
Delta R.T. 0.00 min
Lab File: VD064975.D
Acq: 28 Jan 2020 12:04

Tgt Ion	Ratio	Lower	Upper
43	100		
74	23.8	19.1	28.7





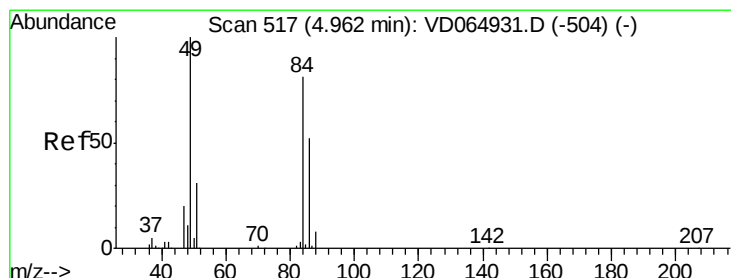
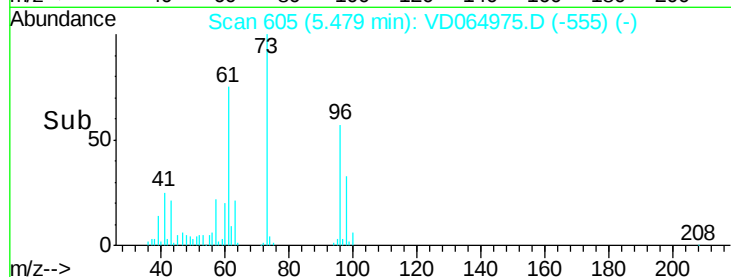
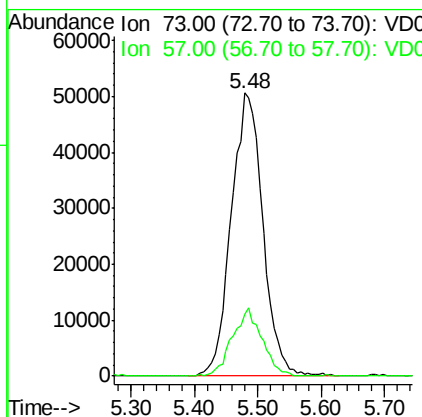
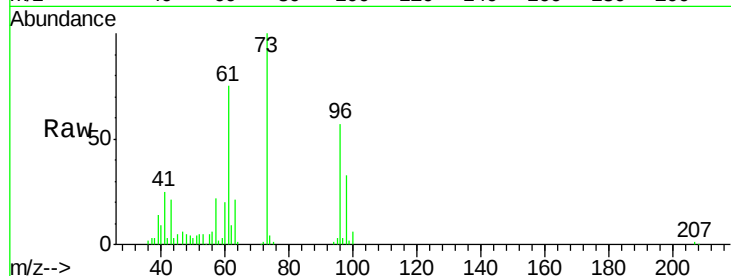
#19
Methyl tert-butyl Ether
Concen: 19.630 ug/l
RT: 5.48 min Scan# 605
Delta R.T. -0.01 min
Lab File: VD064975.D
Acq: 28 Jan 2020 12:04

Instrument :
MSVOA_D
ClientSampleId :
VD0128SBS01

Tot Ion	Ratio	Lower	Upper
73	100		
57	21.7	17.9	26.9

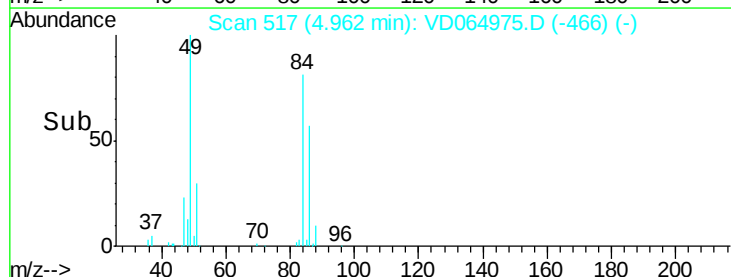
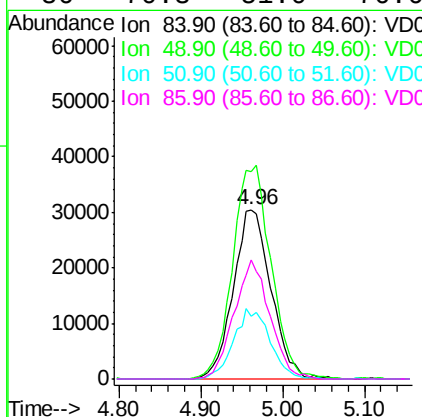
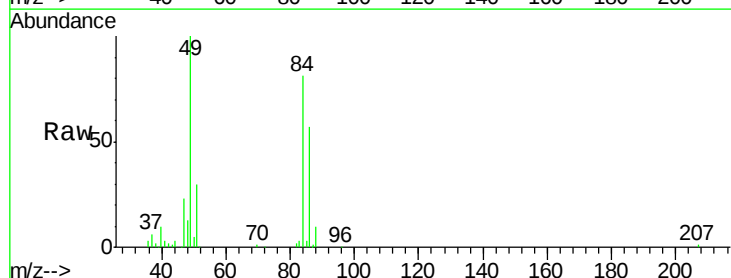
Manual Integrations
APPROVED

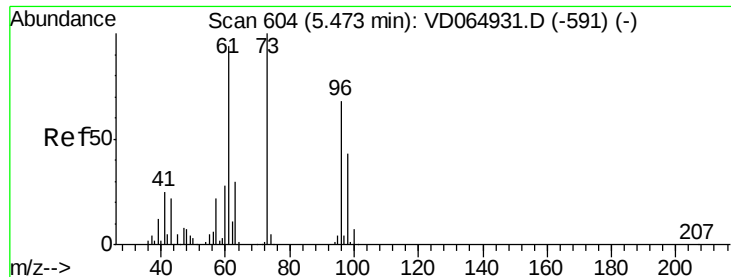
MMDadoda
1/29/2020 12:55:54 PM



#20
Methylene Chloride
Concen: 18.921 ug/l
RT: 4.96 min Scan# 517
Delta R.T. 0.00 min
Lab File: VD064975.D
Acq: 28 Jan 2020 12:04

Tgt Ion	Ratio	Lower	Upper
84	100		
49	122.7	98.4	147.6
51	37.0	30.8	46.2
86	70.3	51.0	76.6





#21

trans-1,2-Dichloroethene

Concen: 21.267 ug/l

RT: 5.47 min Scan# 603

Delta R.T. -0.01 min

Lab File: VD064975.D

Acq: 28 Jan 2020 12:04

Instrument :

MSVOA_D

ClientSampleId :

VD0128SBS01

Tot Ion: 96 Resp: 97605

Ion Ratio Lower Upper

96 100

61 143.5 110.4 165.6

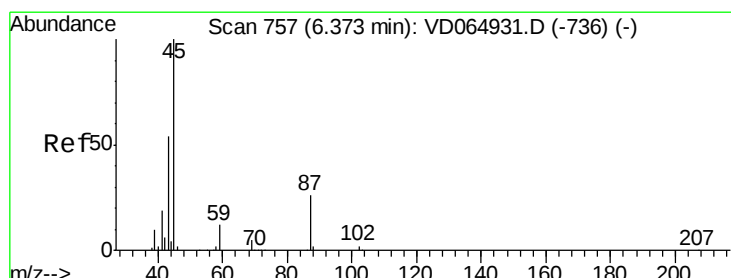
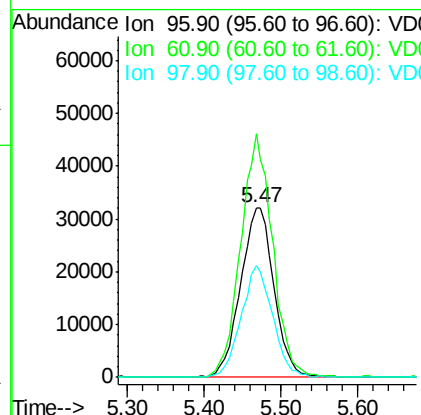
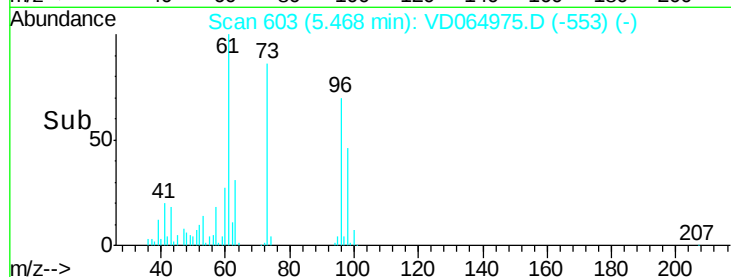
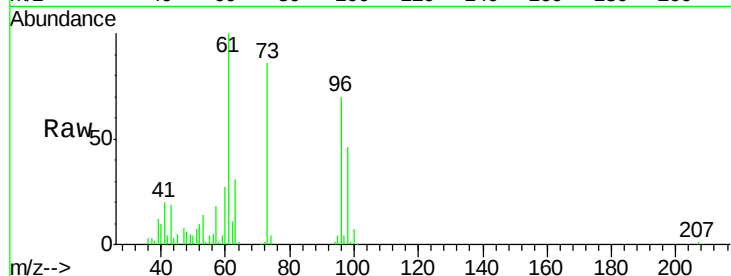
98 65.7 50.5 75.7

Manual Integrations

APPROVED

MMDadoda

1/29/2020 12:55:54 PM



#22

Diisopropyl ether

Concen: 20.829 ug/l

RT: 6.37 min Scan# 756

Delta R.T. -0.01 min

Lab File: VD064975.D

Acq: 28 Jan 2020 12:04

Tgt Ion: 45 Resp: 263729

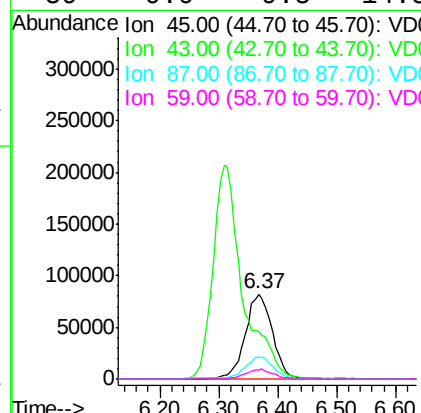
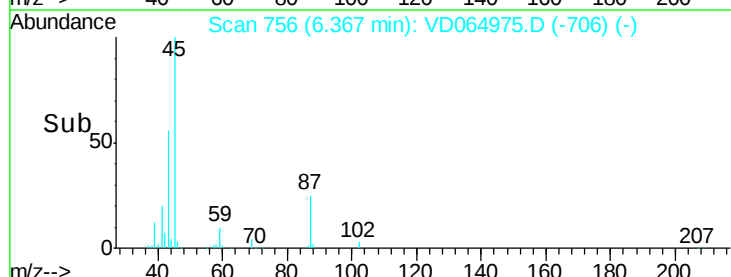
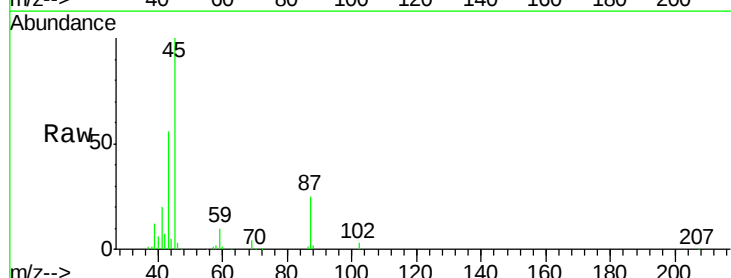
Ion Ratio Lower Upper

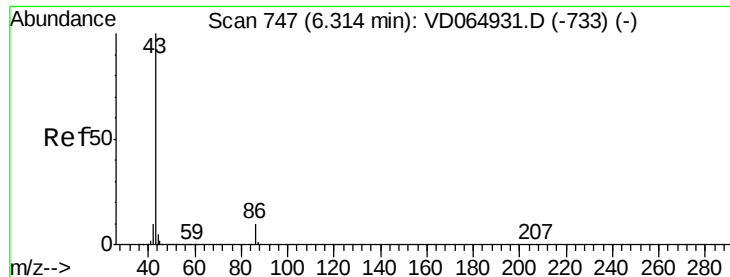
45 100

43 55.1 43.1 64.7

87 25.1 21.4 32.2

59 9.9 9.5 14.3





#23

Vinyl Acetate

Concen: 97.332 ug/l

RT: 6.31 min Scan# 746

Delta R.T. -0.01 min

Lab File: VD064975.D

Acq: 28 Jan 2020 12:04

Instrument :

MSVOA_D

ClientSampleId :

VD0128SBS01

Tot Ion: 43 Resp: 721557

Ion Ratio Lower Upper

43 100

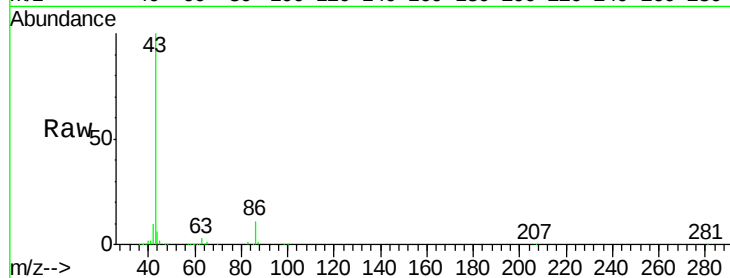
86 11.1 8.3 12.5

Manual Integrations

APPROVED

MMDadoda

1/29/2020 12:55:54 PM



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 86.00 (85.70 to 86.70): VDC

6.31

200000

150000

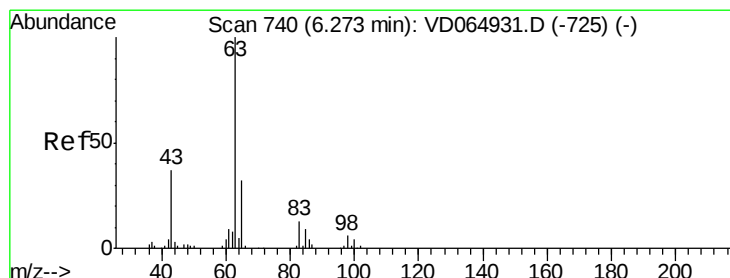
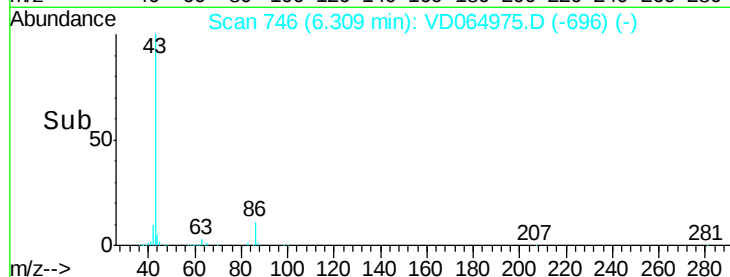
100000

50000

0

6.20 6.30 6.40 6.50

Time-->



#24

1,1-Dichloroethane

Concen: 21.445 ug/l

RT: 6.27 min Scan# 739

Delta R.T. -0.01 min

Lab File: VD064975.D

Acq: 28 Jan 2020 12:04

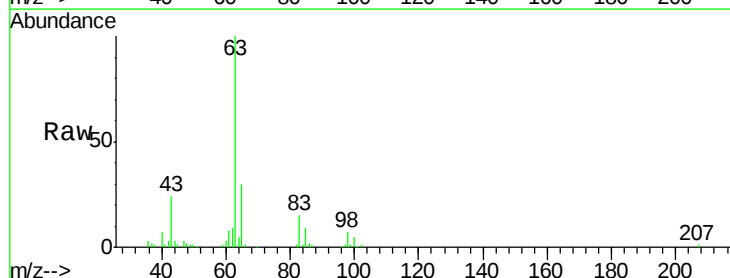
Tgt Ion: 63 Resp: 166713

Ion Ratio Lower Upper

63 100

98 7.1 3.1 9.3

100 4.9 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

6.27

60000

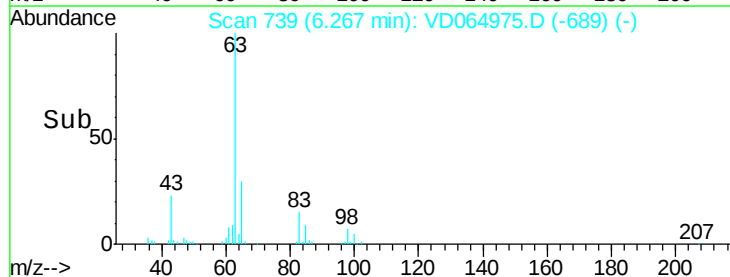
40000

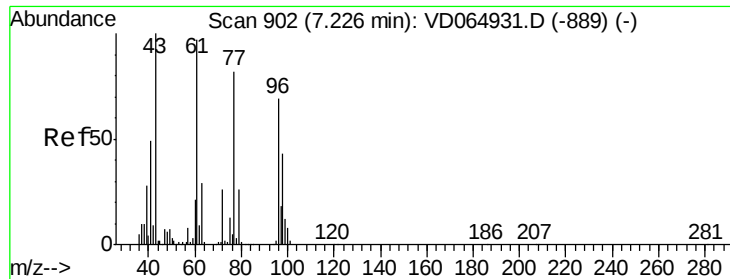
20000

0

6.10 6.20 6.30 6.40

Time-->





#25

2-Butanone

Concen: 91.714 ug/l

RT: 7.22 min Scan# 901

Delta R.T. -0.01 min

Lab File: VD064975.D

Acq: 28 Jan 2020 12:04

Instrument :

MSVOA_D

ClientSampleId :

VD0128SBS01

Tot Ion: 43 Resp: 108766

Ion Ratio Lower Upper

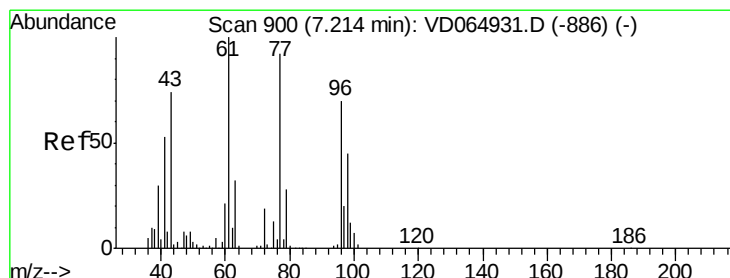
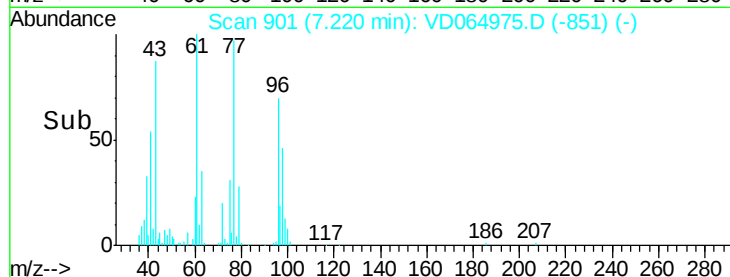
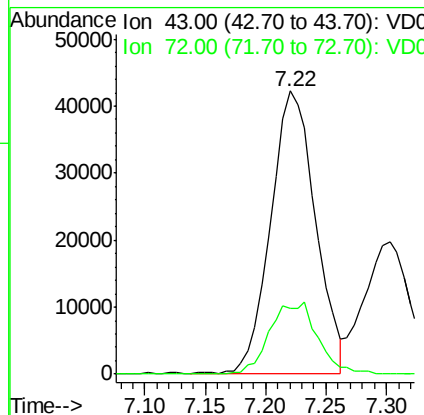
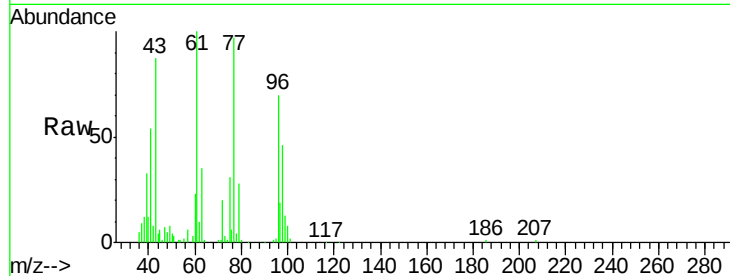
43 100

72 23.3 20.6 31.0

Manual Integrations
APPROVED

MMDadoda

1/29/2020 12:55:54 PM



#26

2,2-Dichloropropane

Concen: 21.713 ug/l

RT: 7.21 min Scan# 899

Delta R.T. -0.01 min

Lab File: VD064975.D

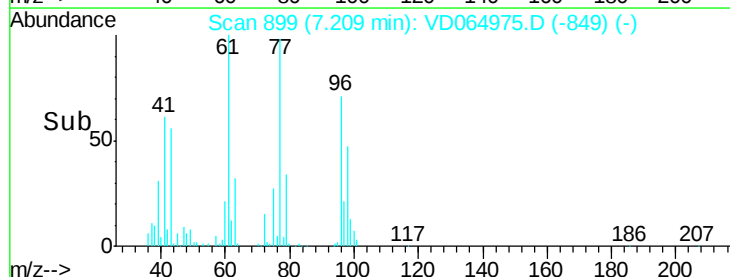
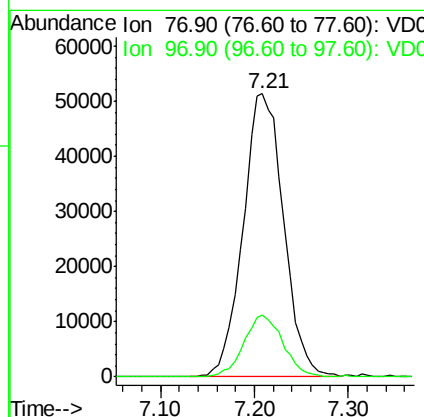
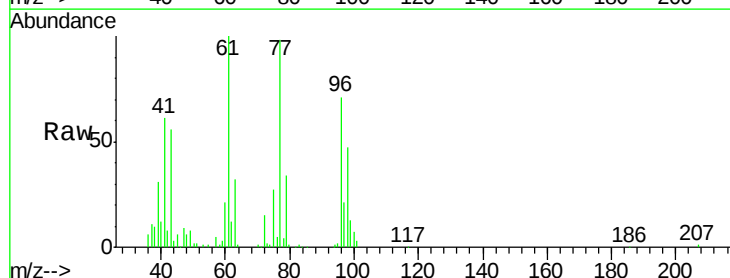
Acq: 28 Jan 2020 12:04

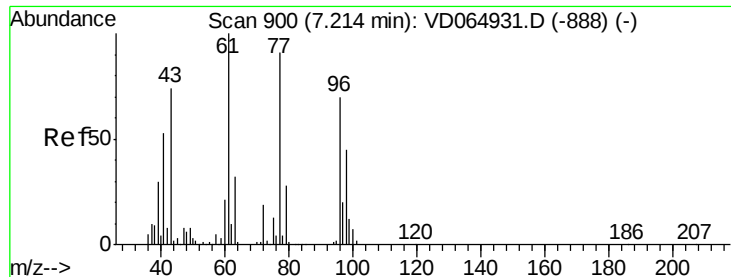
Tgt Ion: 77 Resp: 153112

Ion Ratio Lower Upper

77 100

97 21.3 11.4 34.2





#27

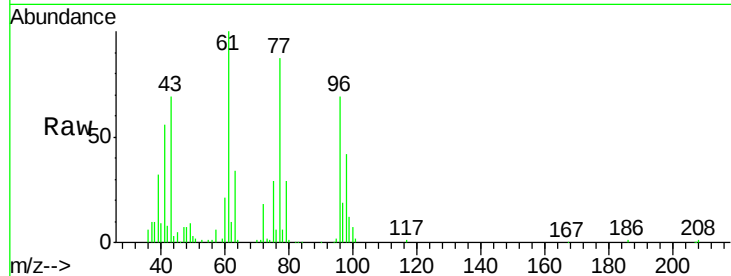
cis-1,2-Dichloroethene
Concen: 20.616 ug/l
RT: 7.21 min Scan# 900
Delta R.T. 0.00 min
Lab File: VD064975.D
Acq: 28 Jan 2020 12:04

Instrument :
MSVOA_D
ClientSampleId :
VD0128SBS01

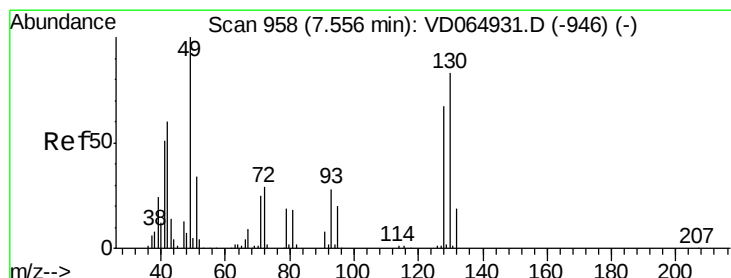
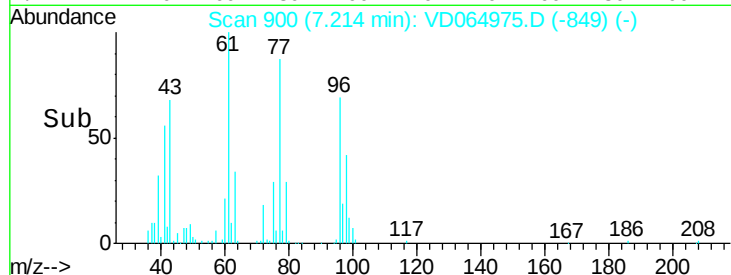
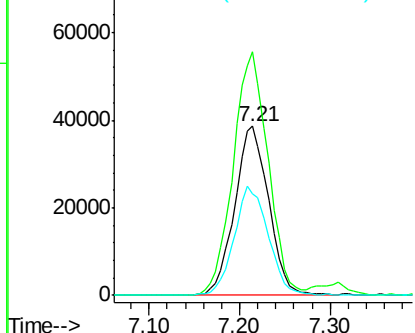
Tot Ion	Ratio	Resp	Lower	Upper
96	100	100990		
61	146.8		0.0	292.8
98	64.4		0.0	130.0

Manual Integrations
APPROVED

MMDadoda
1/29/2020 12:55:54 PM



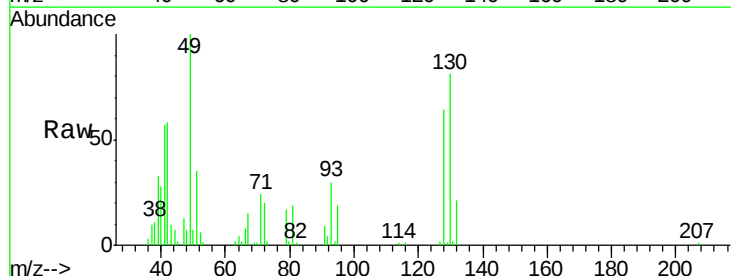
Abundance Ion 95.90 (95.60 to 96.60): VDC
Ion 60.90 (60.60 to 61.60): VDC
Ion 97.90 (97.60 to 98.60): VDC



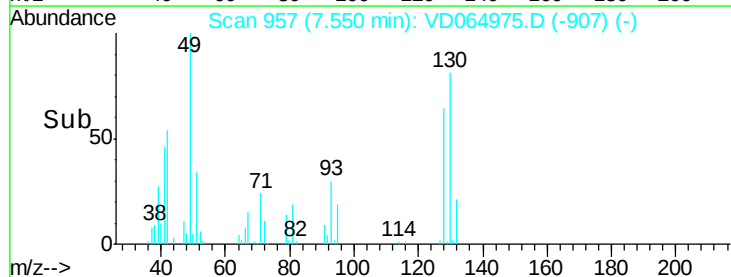
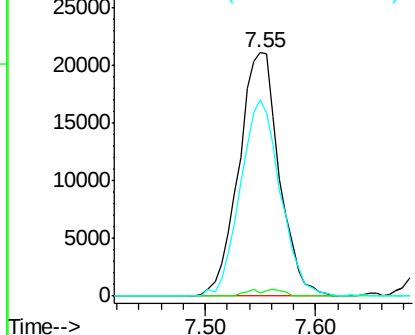
#28

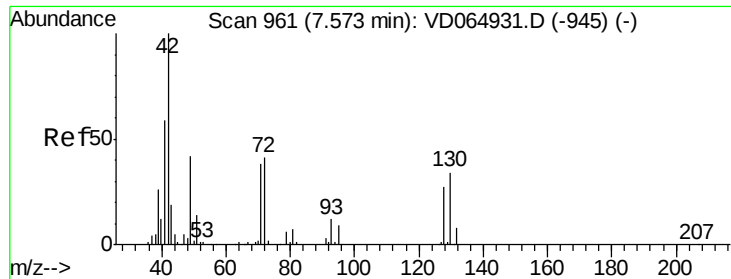
Bromochloromethane
Concen: 17.462 ug/l
RT: 7.55 min Scan# 957
Delta R.T. -0.01 min
Lab File: VD064975.D
Acq: 28 Jan 2020 12:04

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	54290		
129	1.0		0.0	4.4
130	79.8		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





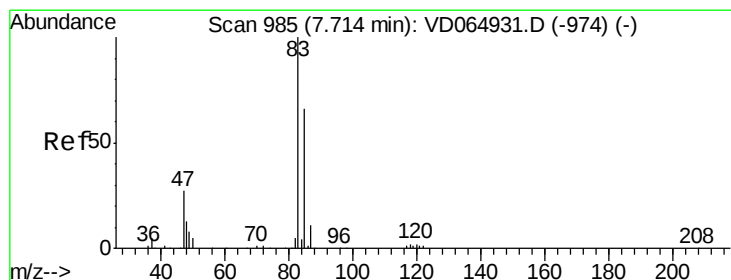
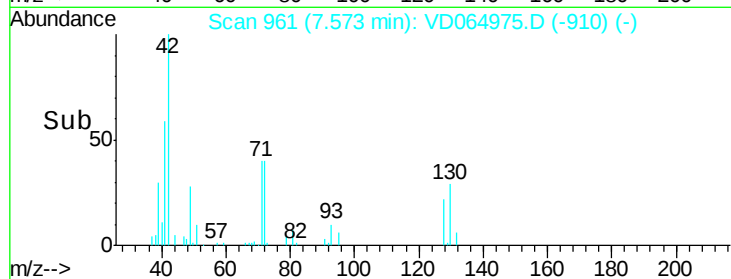
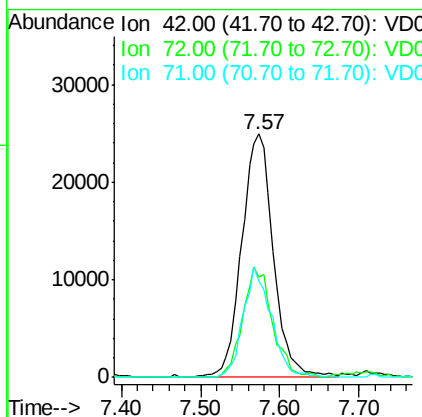
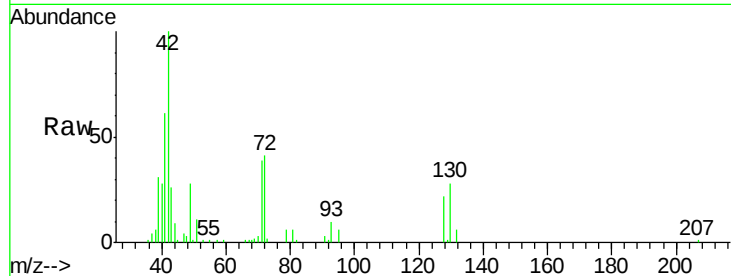
#29
Tetrahydrofuran
Concen: 94.655 ug/l
RT: 7.57 min Scan# 961
Delta R.T. 0.00 min
Lab File: VD064975.D
Acq: 28 Jan 2020 12:04

Instrument :
MSVOA_D
ClientSampleId :
VD0128SBS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	42.4	34.0	51.0
71	40.2	31.5	47.3

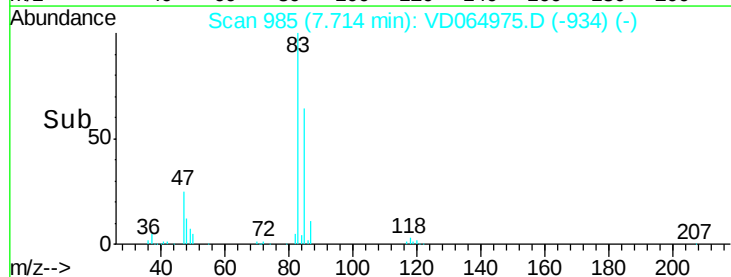
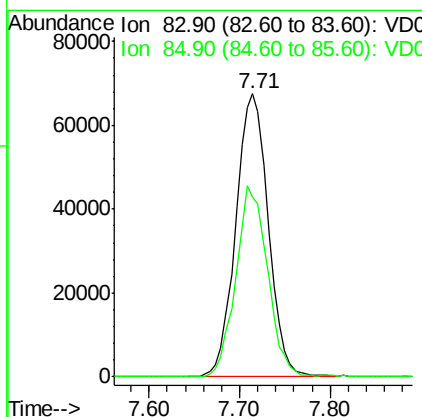
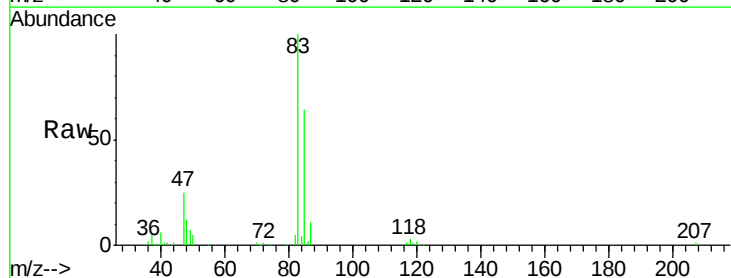
Manual Integrations
APPROVED

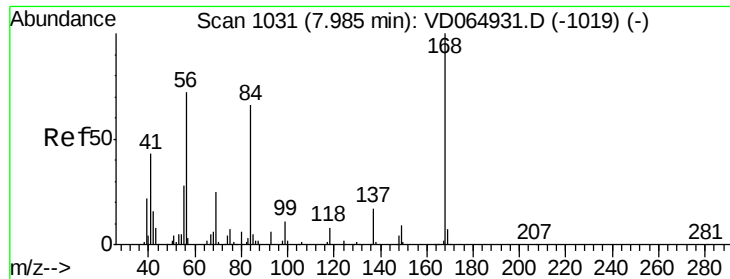
MMDadoda
1/29/2020 12:55:54 PM



#30
Chloroform
Concen: 20.879 ug/l
RT: 7.71 min Scan# 985
Delta R.T. 0.00 min
Lab File: VD064975.D
Acq: 28 Jan 2020 12:04

Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.5	52.4	78.6





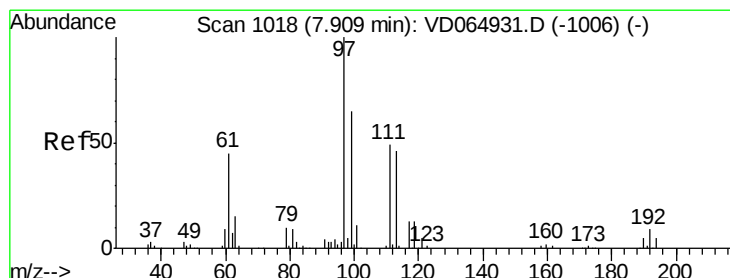
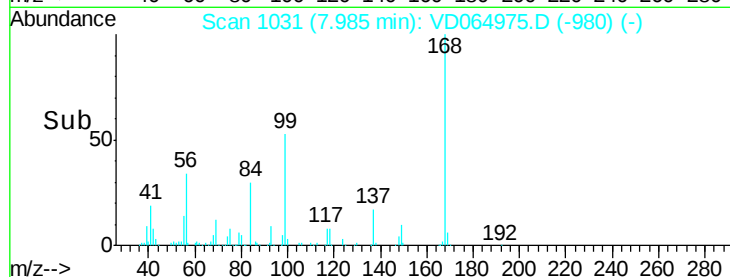
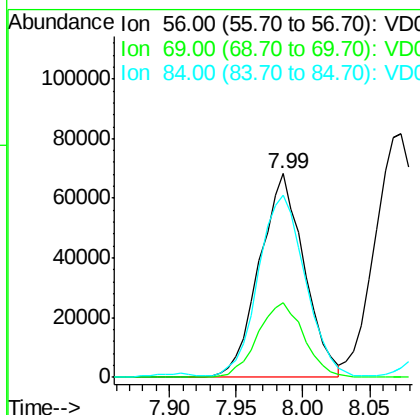
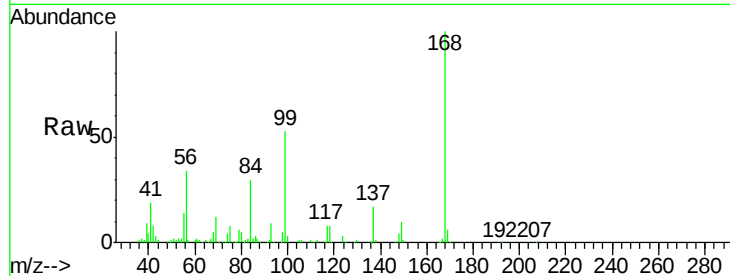
#31
Cyclohexane
Concen: 20.830 ug/l
RT: 7.99 min Scan# 1031
Delta R.T. 0.00 min
Lab File: VD064975.D
Acq: 28 Jan 2020 12:04

Instrument :
MSVOA_D
ClientSampleId :
VD0128SBS01

Tot Ion	Ratio	Lower	Upper
56	100		
69	36.8	27.9	41.9
84	88.2	72.8	109.2

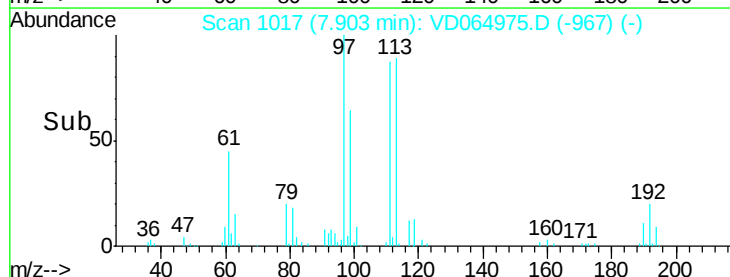
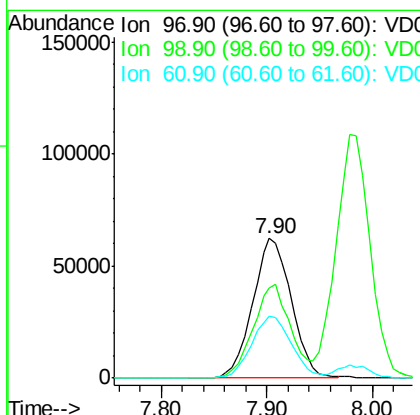
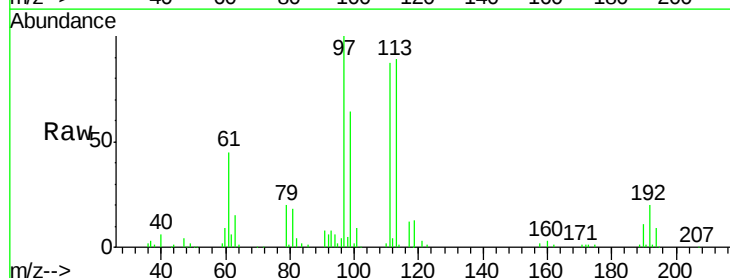
Manual Integrations
APPROVED

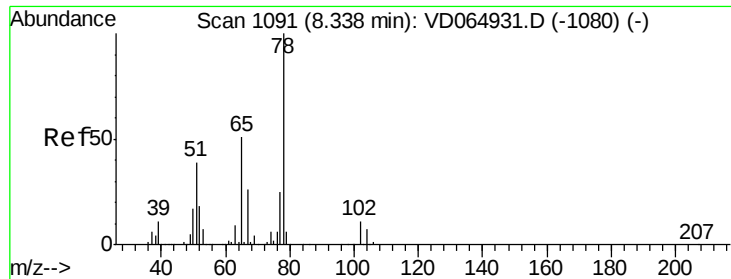
MMDadoda
1/29/2020 12:55:54 PM



#32
1,1,1-Trichloroethane
Concen: 21.112 ug/l
RT: 7.90 min Scan# 1017
Delta R.T. -0.01 min
Lab File: VD064975.D
Acq: 28 Jan 2020 12:04

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.9	50.6	76.0
61	45.7	35.7	53.5





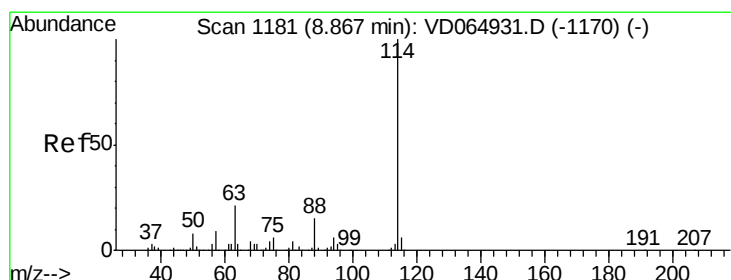
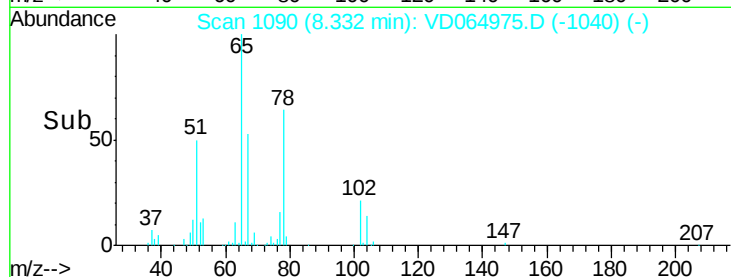
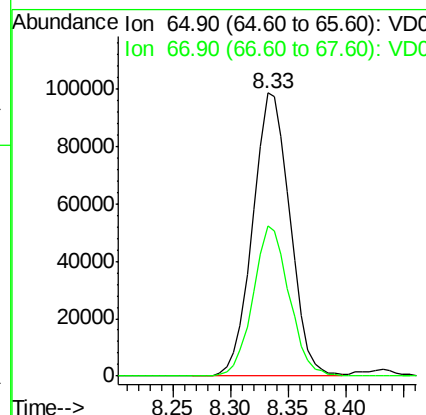
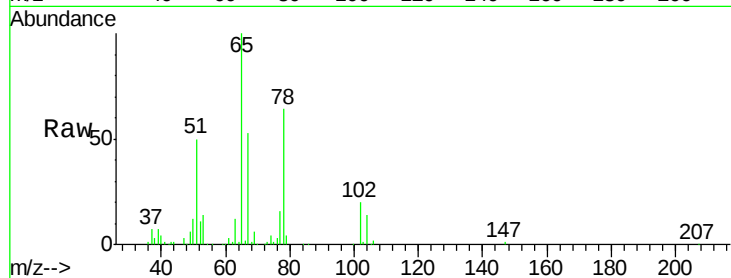
#33
 1,2-Dichloroethane-d4
 Concen: 50.396 ug/l
 RT: 8.33 min Scan# 1090
 Delta R.T. -0.01 min
 Lab File: VD064975.D
 Acq: 28 Jan 2020 12:04

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0128SBS01

Tot Ion	Ratio	Lower	Upper
65	100		
67	51.5	0.0	103.6

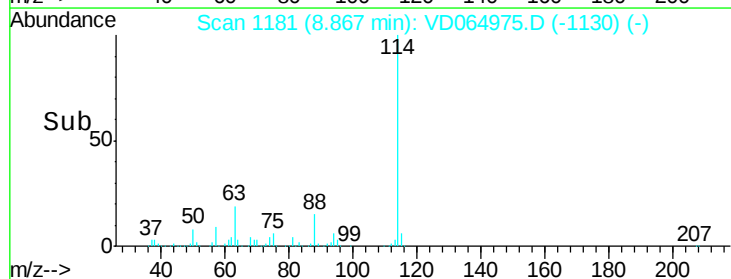
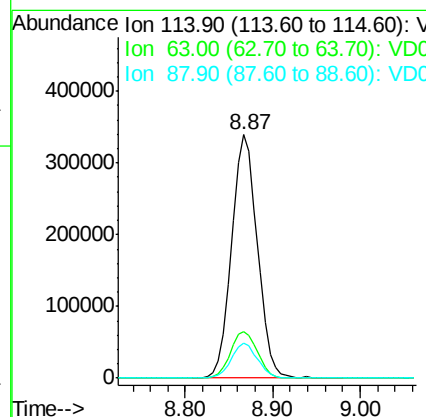
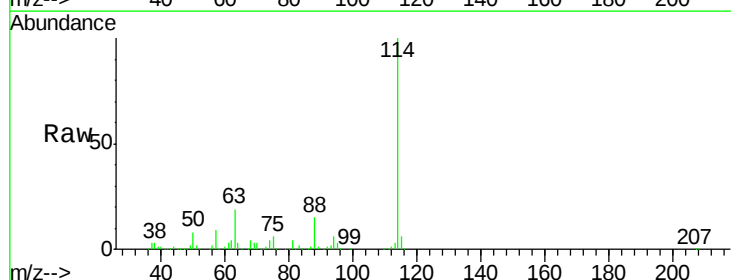
Manual Integrations
 APPROVED

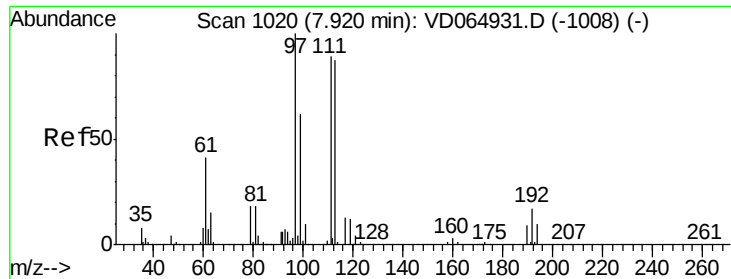
MMDadoda
 1/29/2020 12:55:54 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.87 min Scan# 1181
 Delta R.T. 0.00 min
 Lab File: VD064975.D
 Acq: 28 Jan 2020 12:04

Tgt Ion	Ratio	Lower	Upper
114	100		
63	19.3	0.0	42.0
88	14.5	0.0	29.4





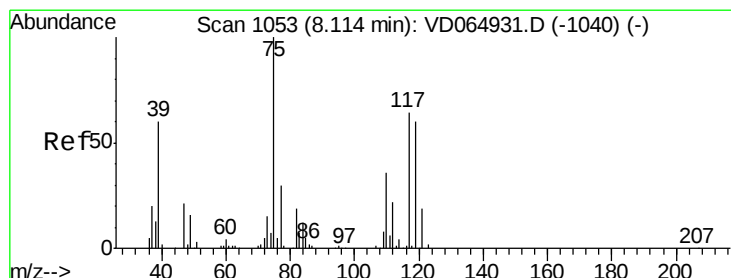
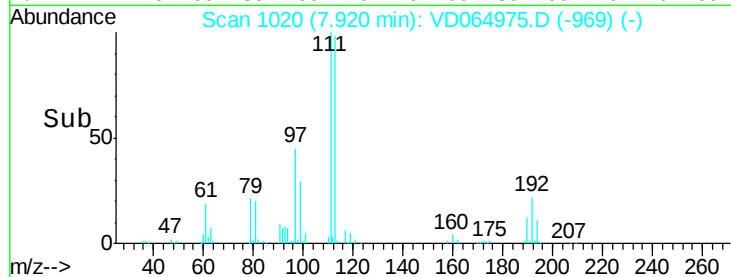
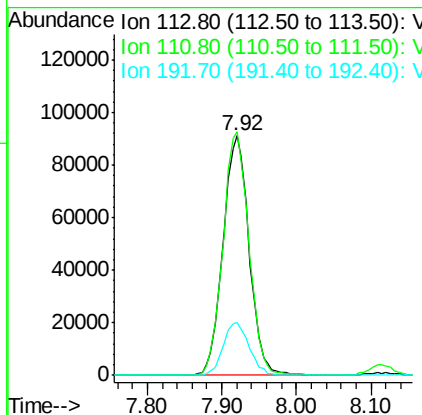
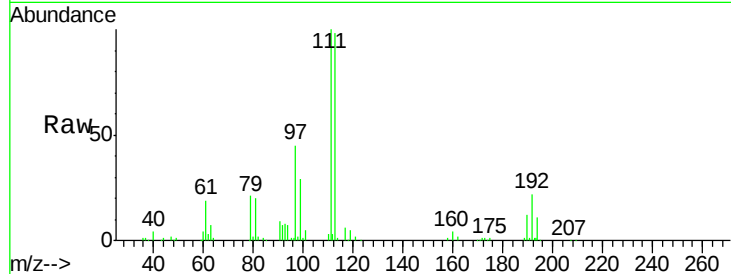
#35
 Dibromofluoromethane
 Concen: 51.808 ug/l
 RT: 7.92 min Scan# 1020
 Delta R.T. 0.00 min
 Lab File: VD064975.D
 Acq: 28 Jan 2020 12:04

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0128SBS01

Tot Ion	Ratio	Resp	Lower	Upper
113	100	221846		
111	100.6	82.4	123.6	
192	22.0	16.9	25.3	

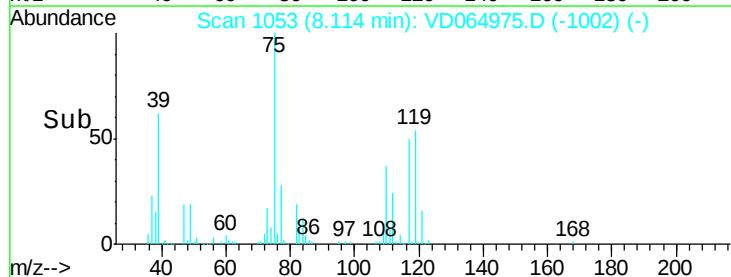
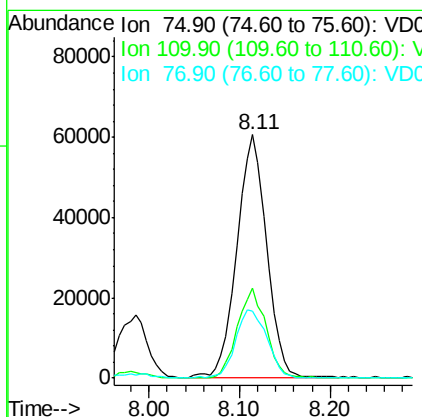
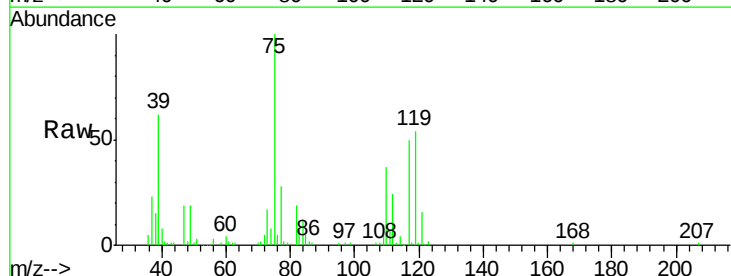
Manual Integrations
 APPROVED

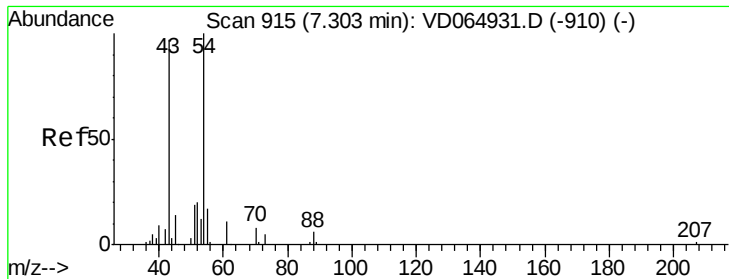
MMDadoda
 1/29/2020 12:55:54 PM



#36
 1,1-Dichloropropene
 Concen: 21.141 ug/l
 RT: 8.11 min Scan# 1053
 Delta R.T. 0.00 min
 Lab File: VD064975.D
 Acq: 28 Jan 2020 12:04

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	138915		
110	35.4	17.3	52.0	
77	29.9	24.7	37.1	





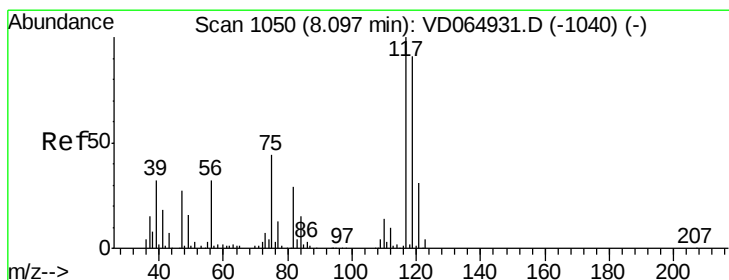
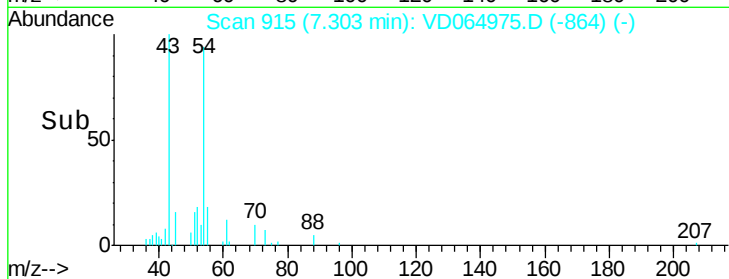
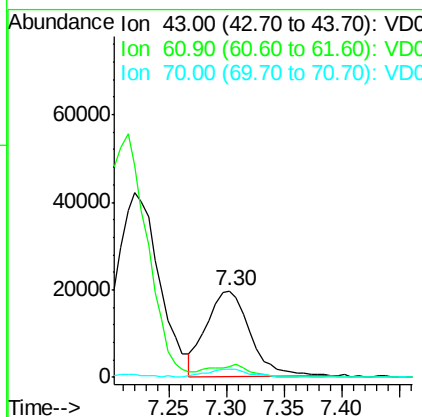
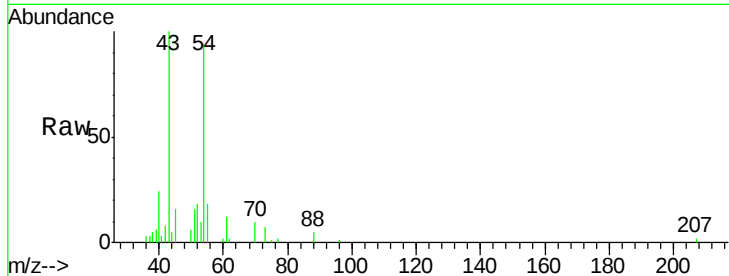
#37
Ethyl Acetate
Concen: 18.986 ug/l
RT: 7.30 min Scan# 915
Delta R.T. 0.00 min
Lab File: VD064975.D
Acq: 28 Jan 2020 12:04

Instrument :
MSVOA_D
ClientSampleId :
VD0128SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	13.7	11.0	16.4
70	9.7	7.5	11.3

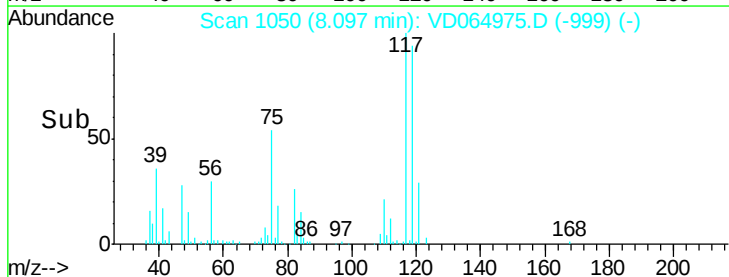
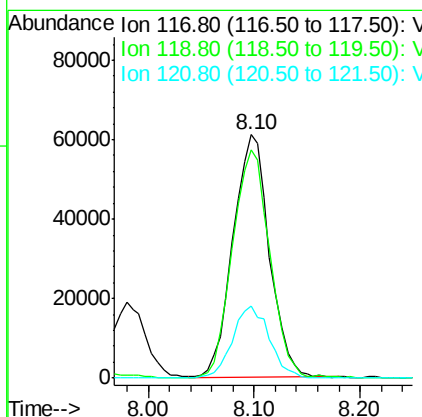
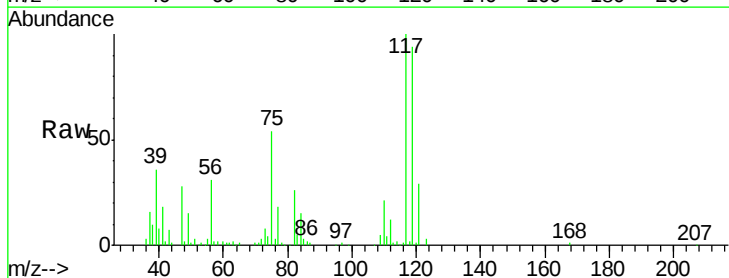
Manual Integrations
APPROVED

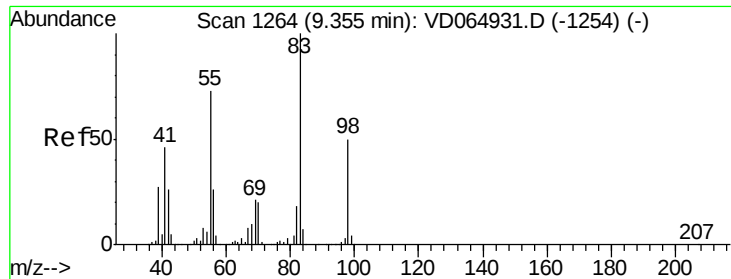
MMDadoda
1/29/2020 12:55:54 PM



#38
Carbon Tetrachloride
Concen: 20.966 ug/l
RT: 8.10 min Scan# 1050
Delta R.T. 0.00 min
Lab File: VD064975.D
Acq: 28 Jan 2020 12:04

Tgt Ion	Ratio	Lower	Upper
117	100		
119	94.1	73.2	109.8
121	29.5	24.4	36.6





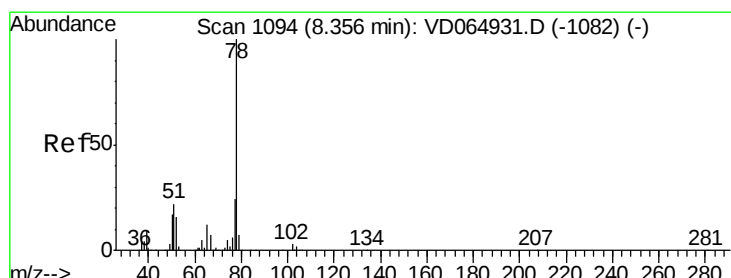
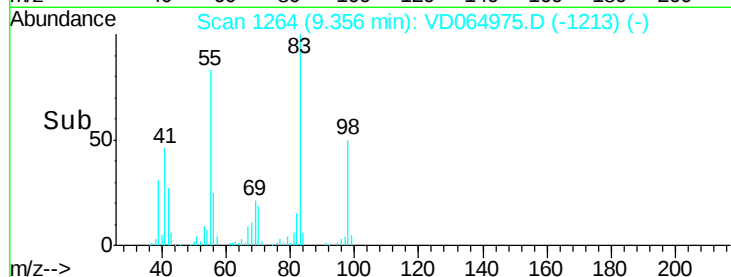
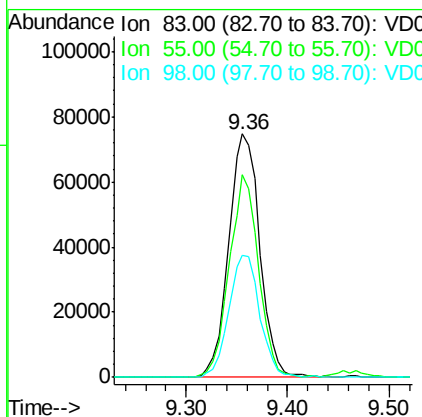
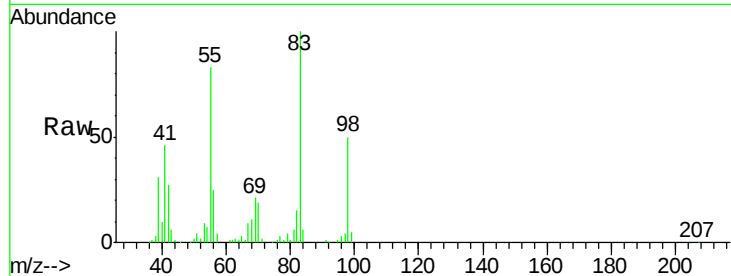
#39
Methvlcvclohexane
Concen: 20.697 ug/l
RT: 9.36 min Scan# 1264
Delta R.T. 0.00 min
Lab File: VD064975.D
Acq: 28 Jan 2020 12:04

Instrument :
MSVOA_D
ClientSampleId :
VD0128SBS01

Tot Ion	Ratio	Lower	Upper
83	100		
55	83.4	58.7	88.1
98	50.1	40.2	60.2

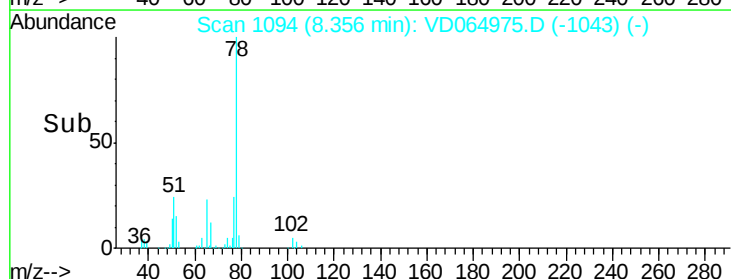
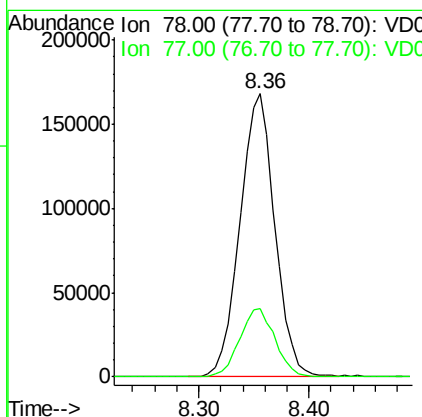
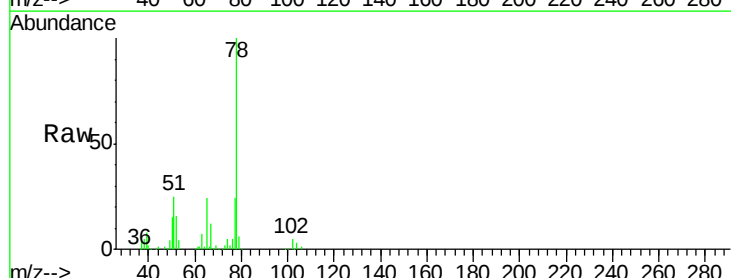
Manual Integrations
APPROVED

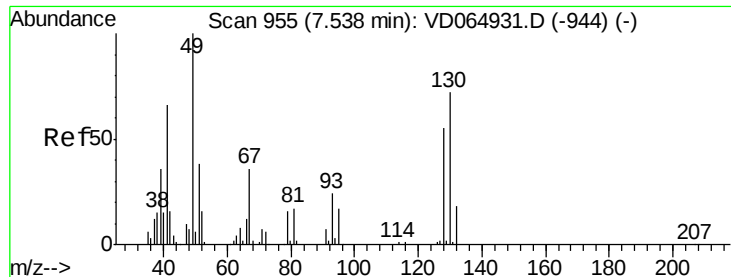
MMDadoda
1/29/2020 12:55:54 PM



#40
Benzene
Concen: 20.581 ug/l
RT: 8.36 min Scan# 1094
Delta R.T. 0.00 min
Lab File: VD064975.D
Acq: 28 Jan 2020 12:04

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.0	19.2	28.8





#41

Methacrylonitrile

Concen: 20.100 ug/l

RT: 7.53 min Scan# 954

Delta R.T. -0.01 min

Lab File: VD064975.D

Acq: 28 Jan 2020 12:04

Instrument :

MSVOA_D

ClientSampleId :

VD0128SBS01

Tot Ion: 41 Resp: 29388

Ion Ratio Lower Upper

41 100

39 57.6 49.3 73.9

67 69.8 51.0 76.6

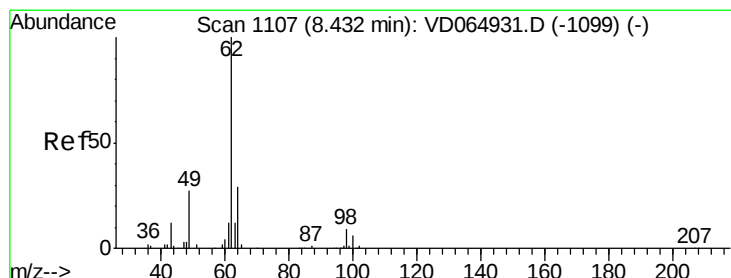
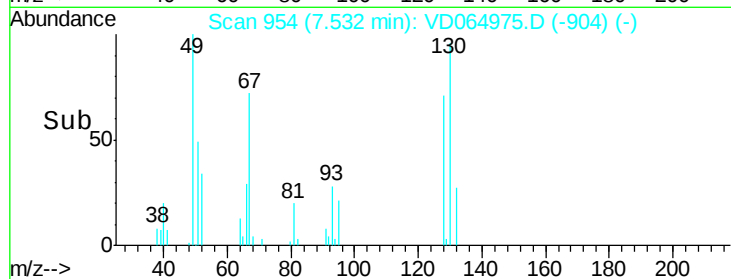
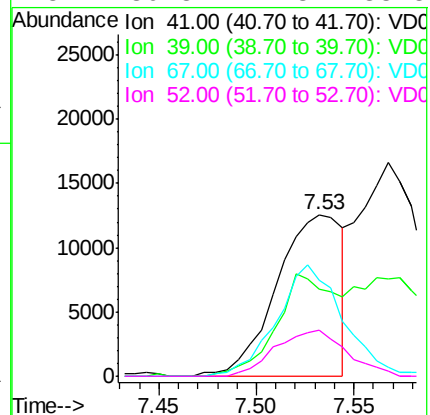
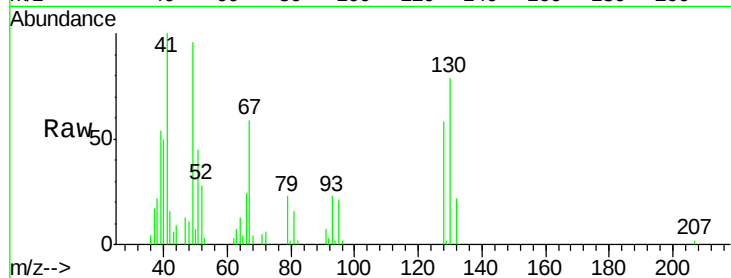
52 30.8 22.3 33.5

Manual Integrations

APPROVED

MMDadoda

1/29/2020 12:55:54 PM



#42

1,2-Dichloroethane

Concen: 19.866 ug/l

RT: 8.43 min Scan# 1107

Delta R.T. 0.00 min

Lab File: VD064975.D

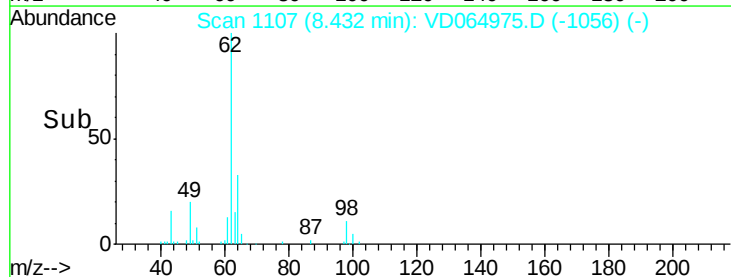
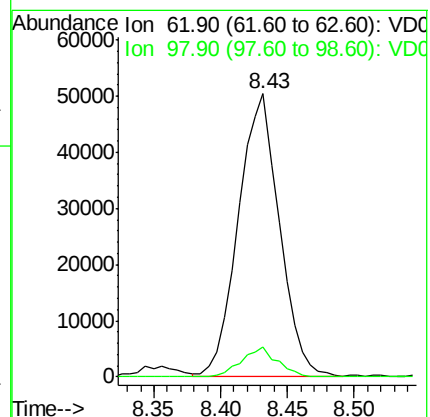
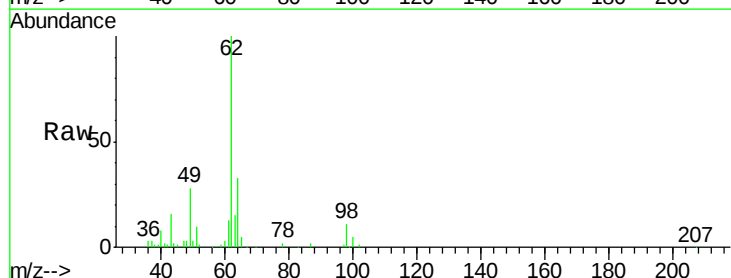
Acq: 28 Jan 2020 12:04

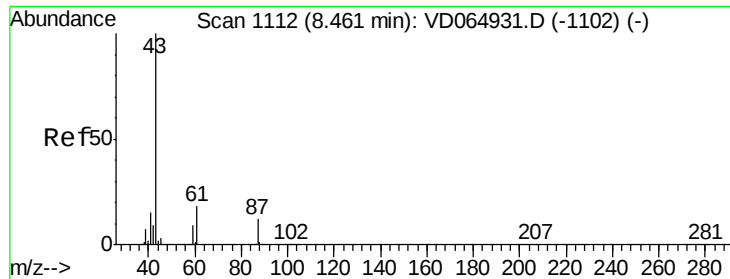
Tgt Ion: 62 Resp: 107091

Ion Ratio Lower Upper

62 100

98 9.2 0.0 17.8





#43

Isopropyl Acetate

Concen: 18.968 ug/l

RT: 8.46 min Scan# 1111

Delta R.T. -0.01 min

Lab File: VD064975.D

Acq: 28 Jan 2020 12:04

Instrument :

MSVOA_D

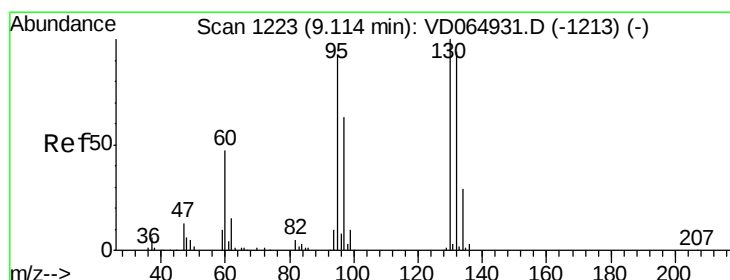
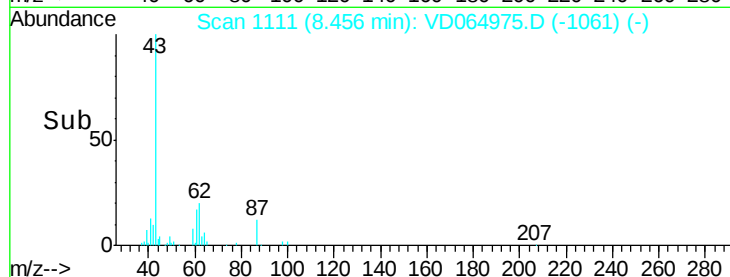
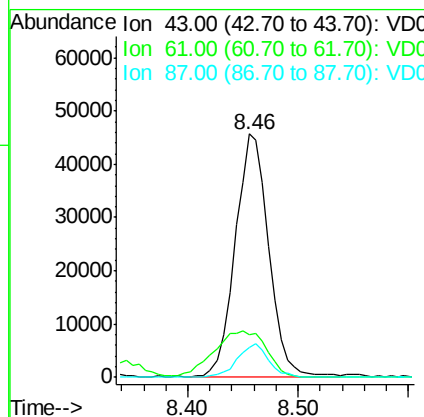
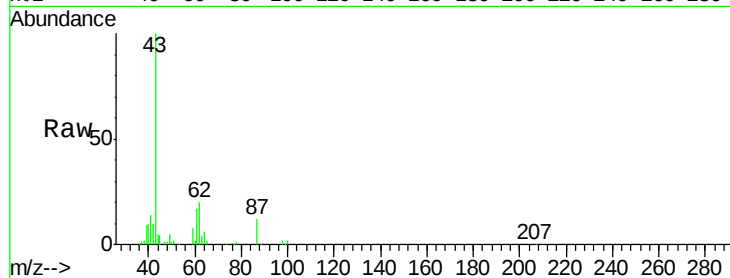
ClientSampleId :

VD0128SBS01

Tot Ion:	43	Resp:	97792
Ion	Ratio	Lower	Upper
43	100		
61	29.6	23.8	35.6
87	12.8	10.3	15.5

Manual Integrations
APPROVED

MMDadoda
1/29/2020 12:55:54 PM



#44

Trichloroethene

Concen: 20.804 ug/l

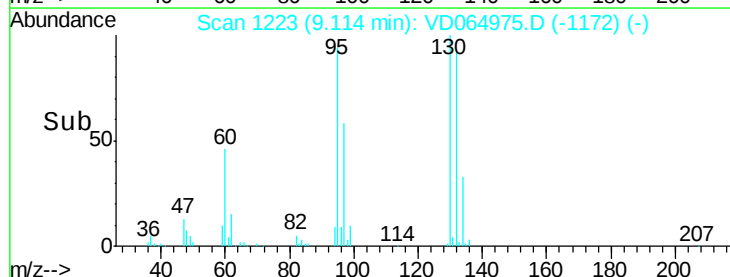
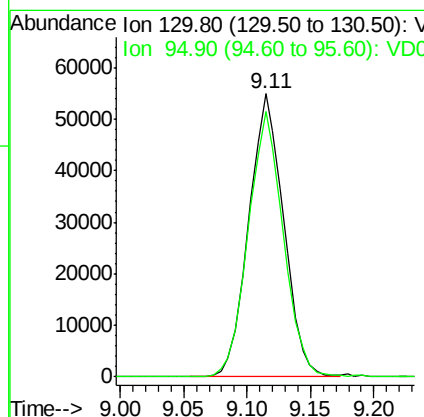
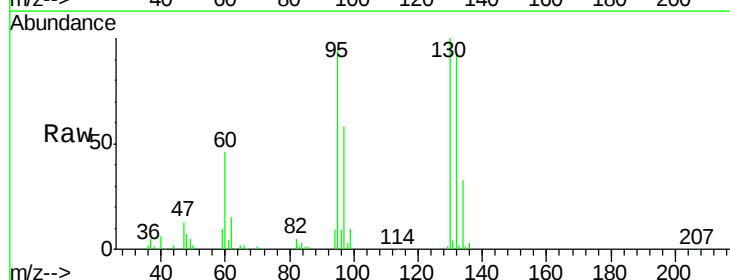
RT: 9.11 min Scan# 1223

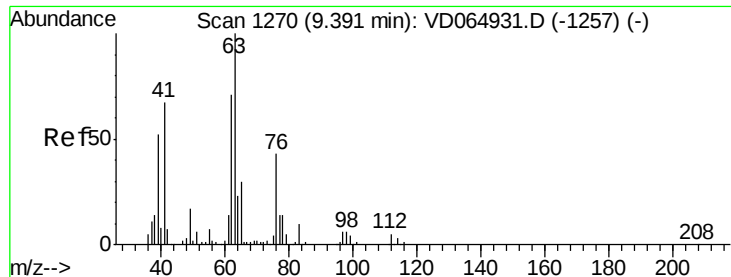
Delta R.T. 0.00 min

Lab File: VD064975.D

Acq: 28 Jan 2020 12:04

Tgt Ion:	130	Resp:	105367
Ion	Ratio	Lower	Upper
130	100		
95	93.9	0.0	185.8





#45

1,2-Dichloropropane

Concen: 20.266 ug/l

RT: 9.39 min Scan# 1270

Delta R.T. 0.00 min

Lab File: VD064975.D

Acq: 28 Jan 2020 12:04

Instrument :

MSVOA_D

ClientSampleId :

VD0128SBS01

Tot Ion: 63 Resp: 88908

Ion Ratio Lower Upper

63 100

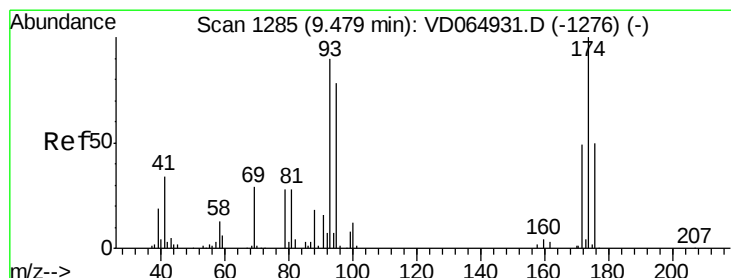
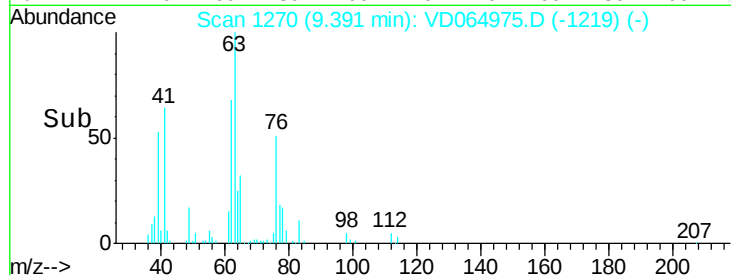
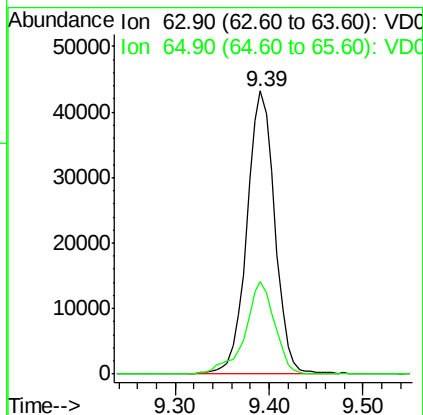
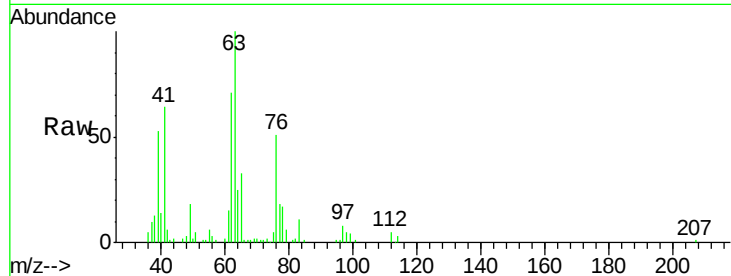
65 32.6 24.3 36.5

Manual Integrations

APPROVED

MMDadoda

1/29/2020 12:55:54 PM



#46

Dibromomethane

Concen: 19.966 ug/l

RT: 9.48 min Scan# 1285

Delta R.T. 0.00 min

Lab File: VD064975.D

Acq: 28 Jan 2020 12:04

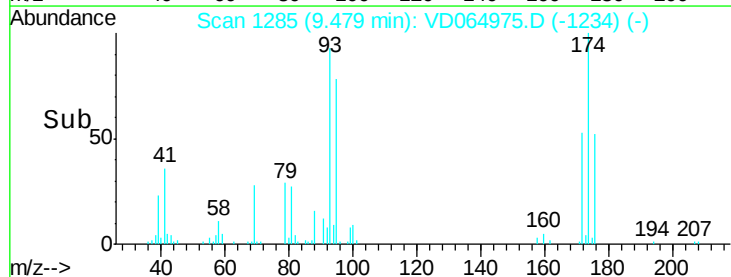
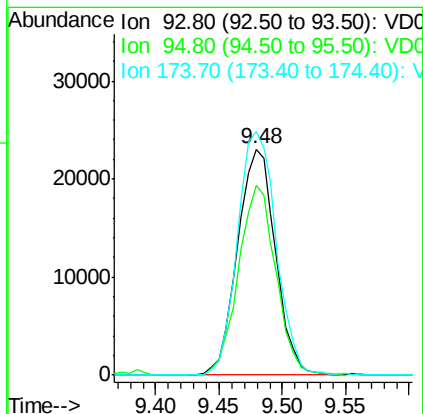
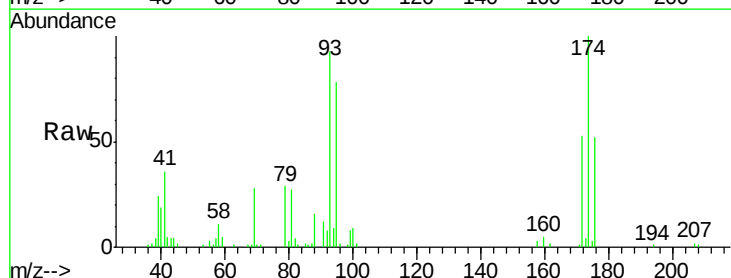
Tgt Ion: 93 Resp: 47822

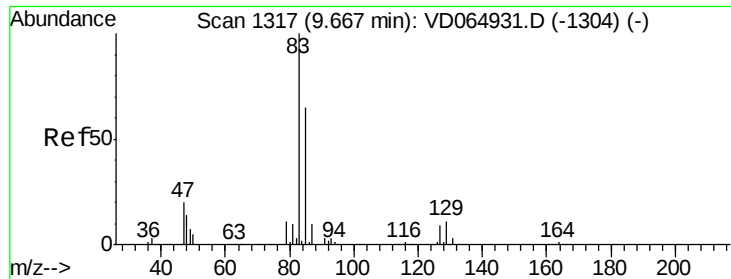
Ion Ratio Lower Upper

93 100

95 82.7 67.5 101.3

174 110.0 88.4 132.6





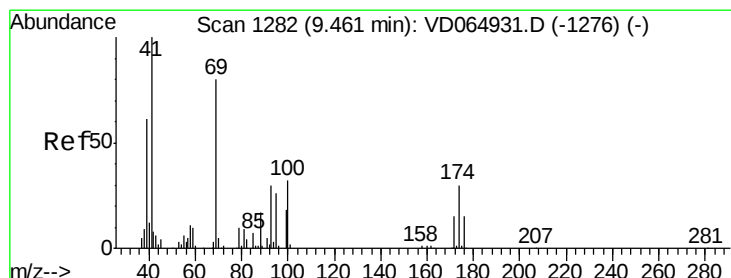
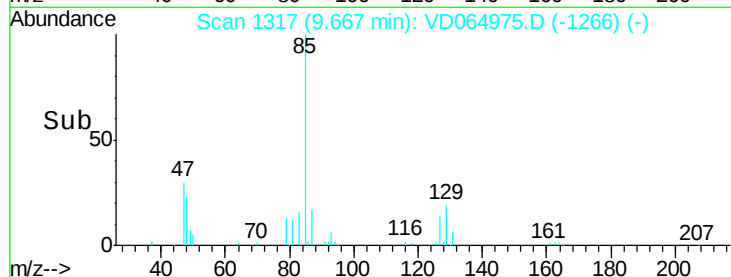
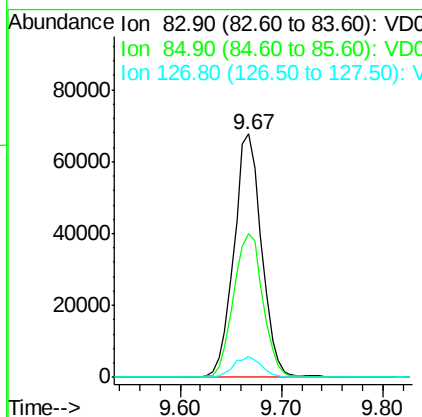
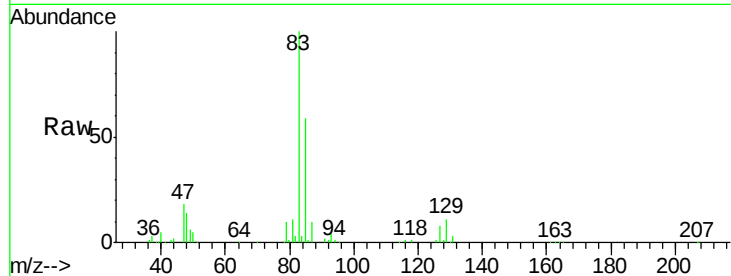
#47
Bromodichloromethane
Concen: 20.639 ug/l
RT: 9.67 min Scan# 1317
Delta R.T. 0.00 min
Lab File: VD064975.D
Acq: 28 Jan 2020 12:04

Instrument :
MSVOA_D
ClientSampleId :
VD0128SBS01

Tot Ion	Ratio	Lower	Upper
83	100		
85	58.9	52.0	78.0
127	8.5	7.3	10.9

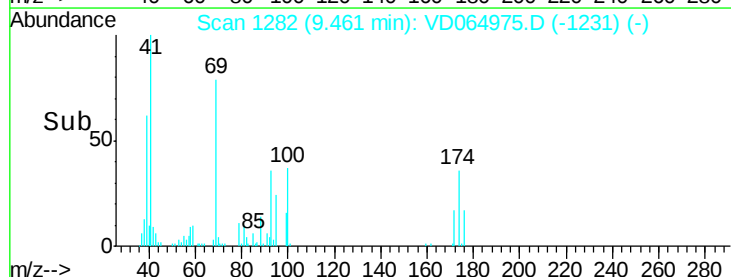
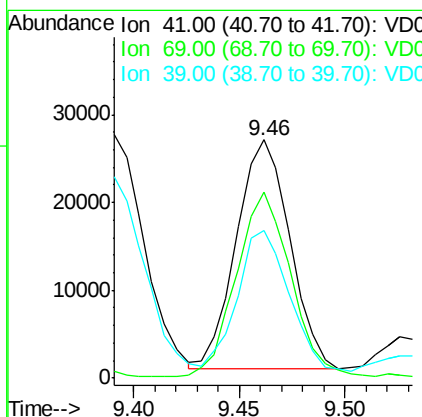
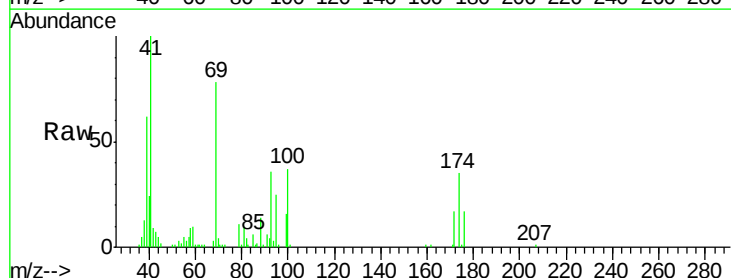
Manual Integrations
APPROVED

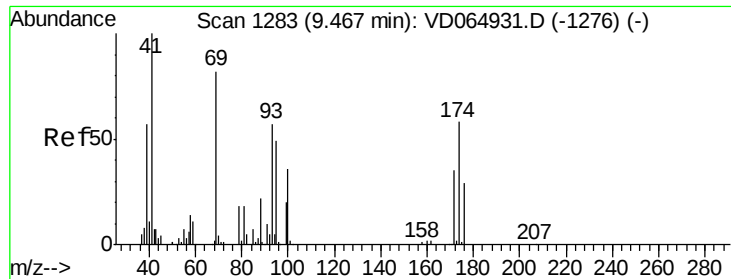
MMDadoda
1/29/2020 12:55:54 PM



#48
Methyl methacrylate
Concen: 19.289 ug/l
RT: 9.46 min Scan# 1282
Delta R.T. 0.00 min
Lab File: VD064975.D
Acq: 28 Jan 2020 12:04

Tgt Ion	Ratio	Lower	Upper
41	100		
69	82.1	65.8	98.8
39	59.5	49.4	74.0





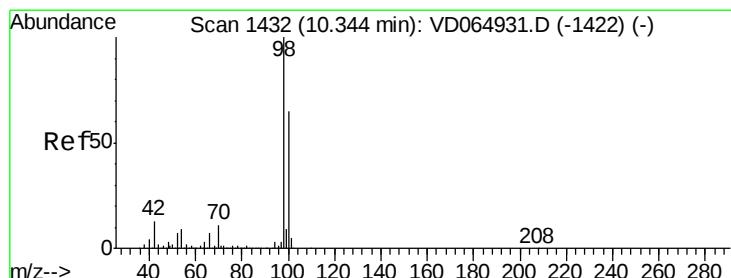
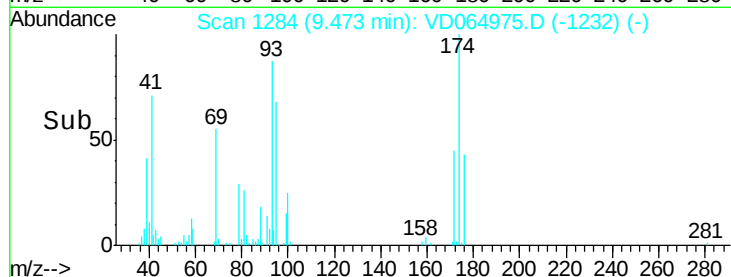
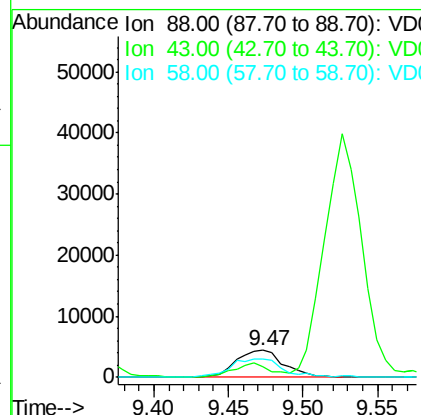
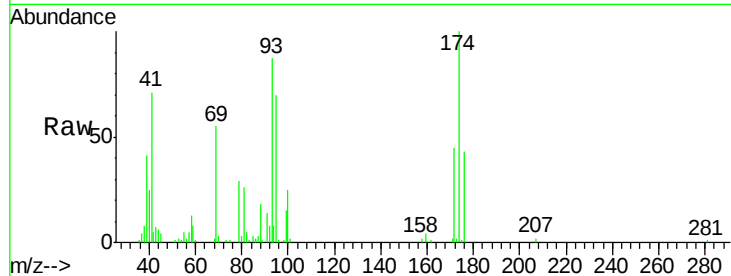
#49
1,4-Dioxane
Concen: 351.817 ug/l
RT: 9.47 min Scan# 1284
Delta R.T. 0.01 min
Lab File: VD064975.D
Acq: 28 Jan 2020 12:04

Instrument :
MSVOA_D
ClientSampleId :
VD0128SBS01

Tot Ion: 88 Resp: 9773
Ion Ratio Lower Upper
88 100
43 41.1 26.2 39.4#
58 75.1 50.3 75.5

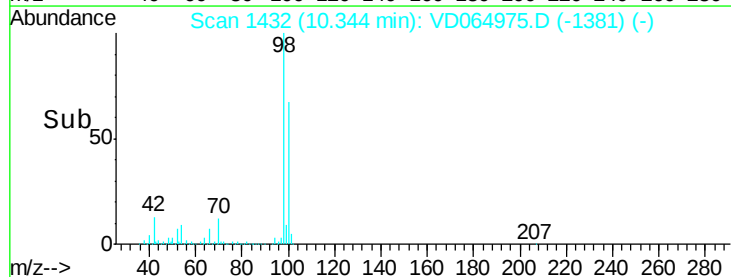
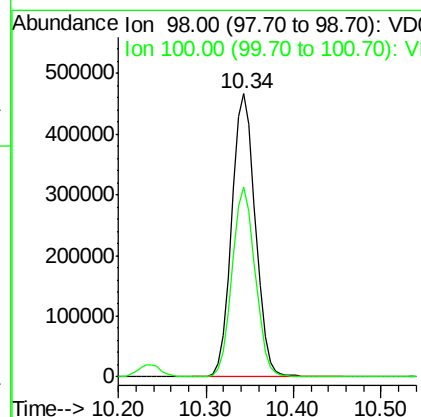
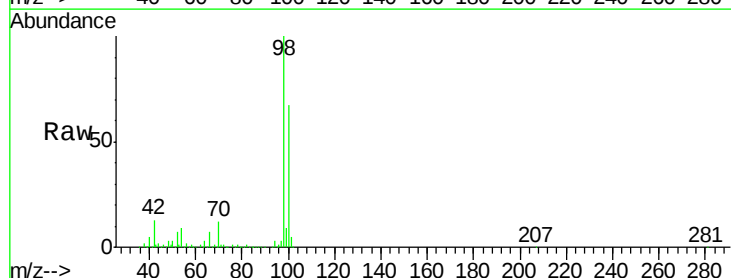
Manual Integrations
APPROVED

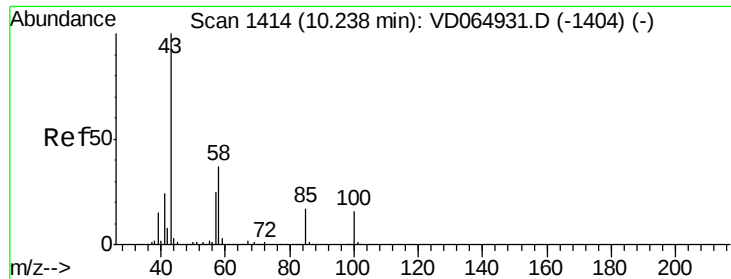
MMDadoda
1/29/2020 12:55:54 PM



#50
Toluene-d8
Concen: 52.064 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. 0.00 min
Lab File: VD064975.D
Acq: 28 Jan 2020 12:04

Tgt Ion: 98 Resp: 860486
Ion Ratio Lower Upper
98 100
100 65.6 52.3 78.5





#51

4-Methyl-2-Pentanone

Concen: 92.381 ug/l

RT: 10.23 min Scan# 1413

Delta R.T. -0.01 min

Lab File: VD064975.D

Acq: 28 Jan 2020 12:04

Instrument :

MSVOA_D

ClientSampleId :

VD0128SBS01

Tot Ion: 43 Resp: 238310

Ion Ratio Lower Upper

43 100

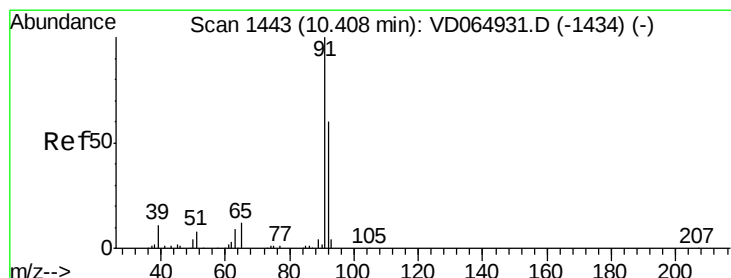
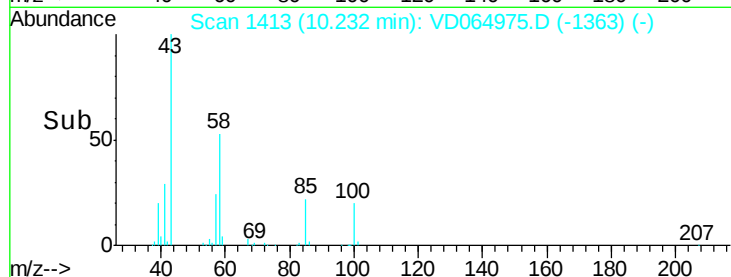
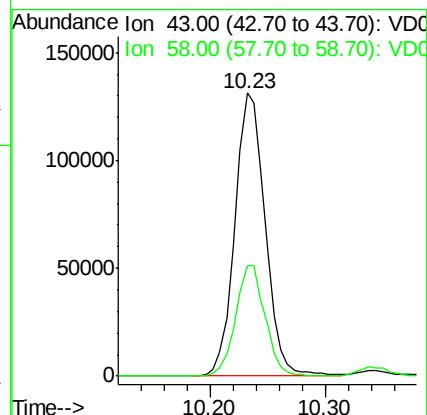
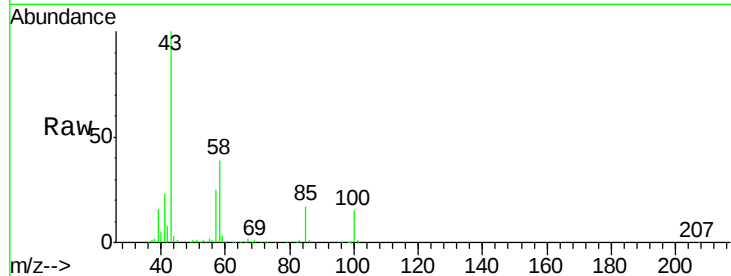
58 38.3 30.4 45.6

Manual Integrations

APPROVED

MMDadoda

1/29/2020 12:55:54 PM



#52

Toluene

Concen: 20.630 ug/l

RT: 10.41 min Scan# 1443

Delta R.T. 0.00 min

Lab File: VD064975.D

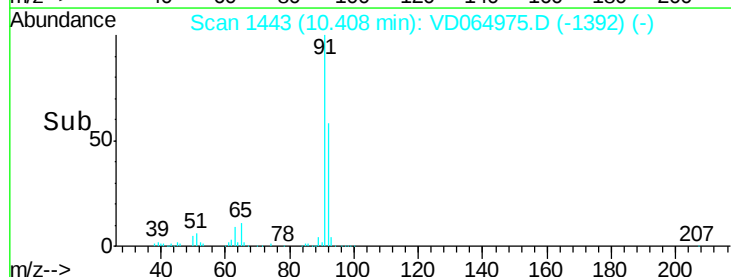
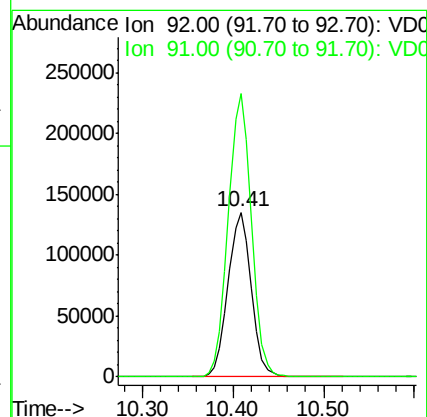
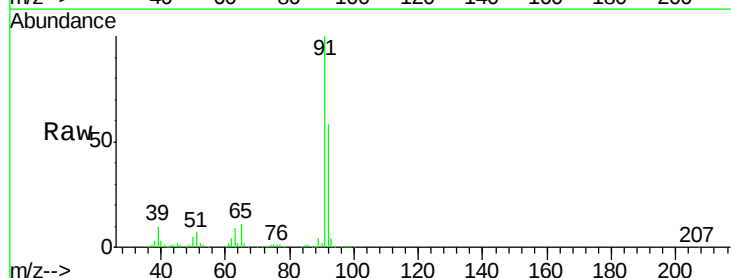
Acq: 28 Jan 2020 12:04

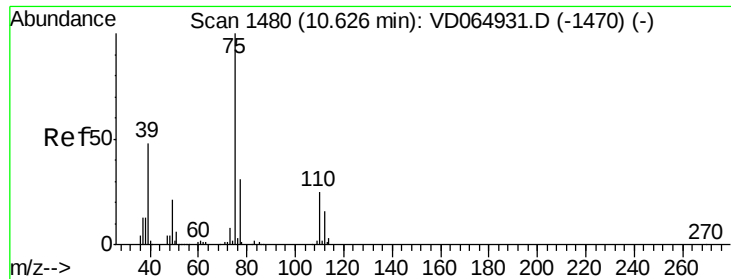
Tgt Ion: 92 Resp: 240695

Ion Ratio Lower Upper

92 100

91 171.8 136.8 205.2





#53

t-1,3-Dichloropropene

Concen: 19.537 ug/l

RT: 10.63 min Scan# 1480

Delta R.T. 0.00 min

Lab File: VD064975.D

Acq: 28 Jan 2020 12:04

Instrument :

MSVOA_D

ClientSampleId :

VD0128SBS01

Tot Ion: 75 Resp: 115987

Ion Ratio Lower Upper

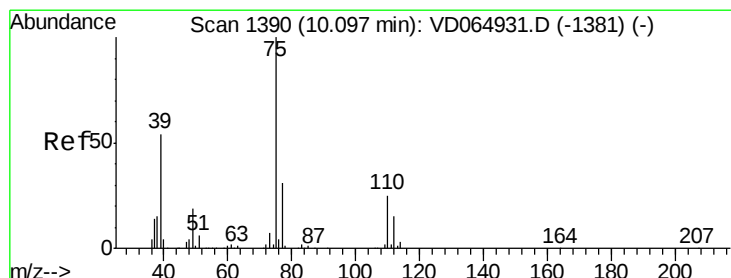
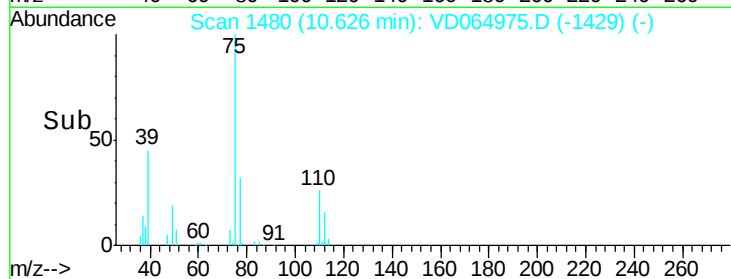
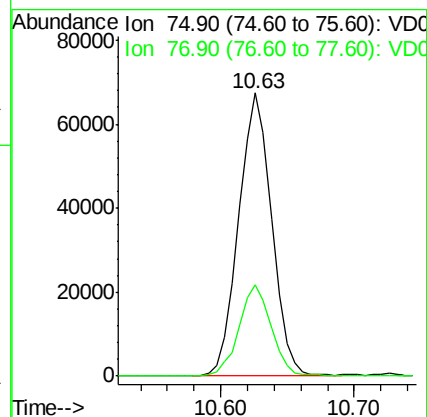
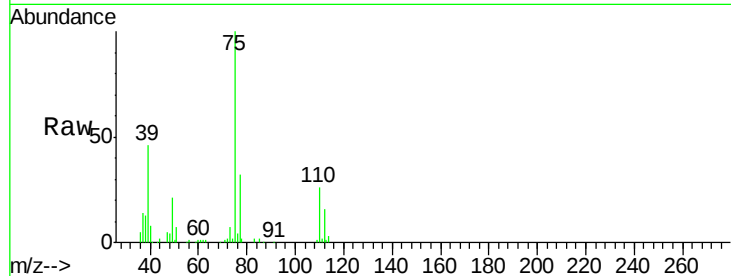
75 100

77 32.1 25.0 37.6

Manual Integrations
APPROVED

MMDadoda

1/29/2020 12:55:54 PM



#54

cis-1,3-Dichloropropene

Concen: 19.899 ug/l

RT: 10.09 min Scan# 1389

Delta R.T. -0.01 min

Lab File: VD064975.D

Acq: 28 Jan 2020 12:04

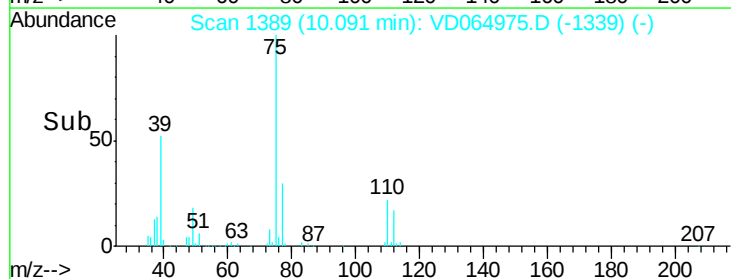
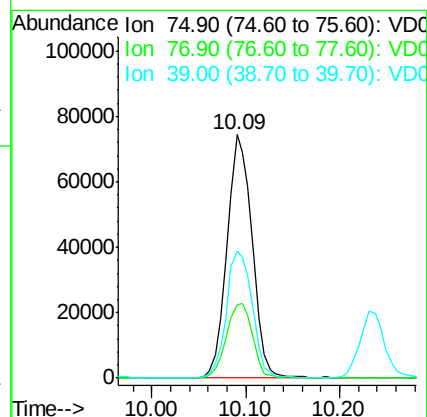
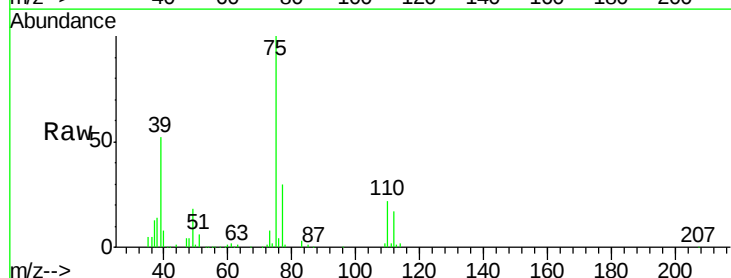
Tgt Ion: 75 Resp: 138315

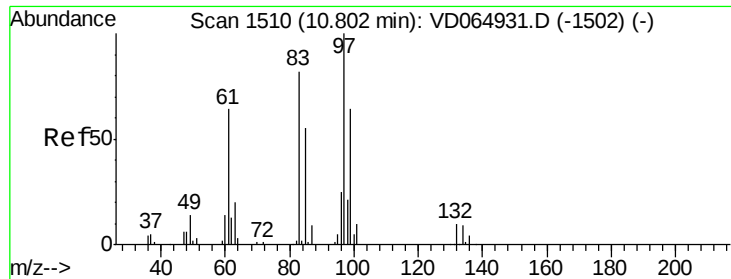
Ion Ratio Lower Upper

75 100

77 30.0 25.1 37.7

39 52.0 43.0 64.6





#55

1,1,2-Trichloroethane

Concen: 20.078 ug/l

RT: 10.80 min Scan# 1510

Delta R.T. 0.00 min

Lab File: VD064975.D

Acq: 28 Jan 2020 12:04

Instrument :

MSVOA_D

ClientSampleId :

VD0128SBS01

Tot Ion: 97 Resp: 64779

Ion Ratio Lower Upper

97 100

83 77.5 66.0 99.0

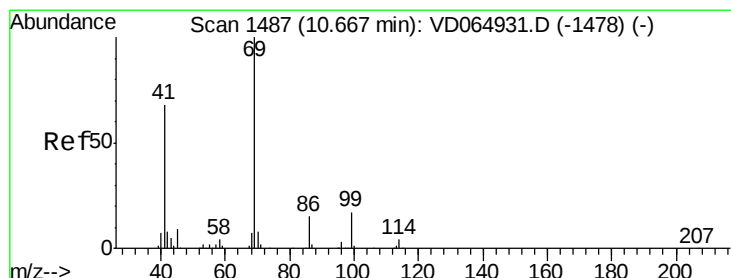
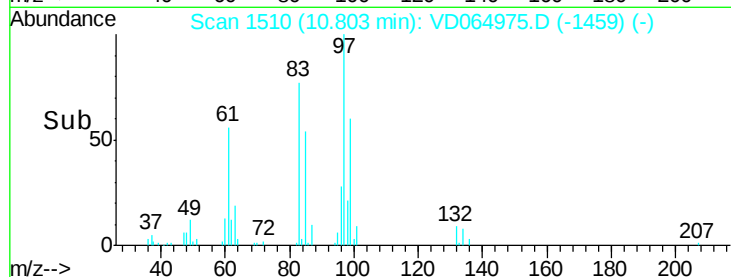
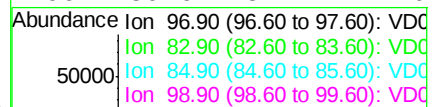
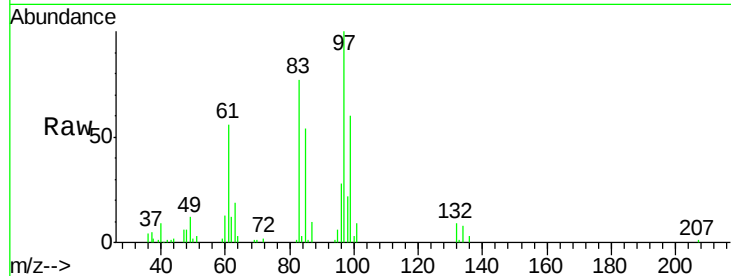
85 53.5 44.4 66.6

99 59.6 51.4 77.0

Manual Integrations
APPROVED

MMDadoda

1/29/2020 12:55:54 PM



#56

Ethyl methacrylate

Concen: 19.001 ug/l

RT: 10.67 min Scan# 1487

Delta R.T. 0.00 min

Lab File: VD064975.D

Acq: 28 Jan 2020 12:04

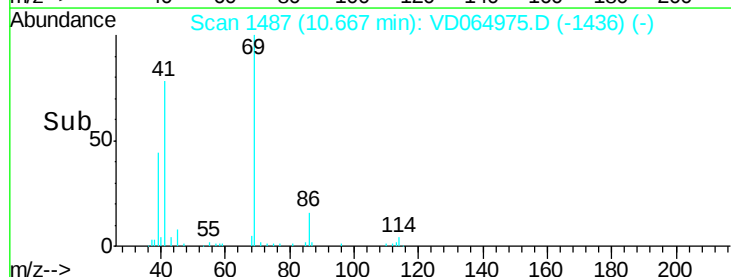
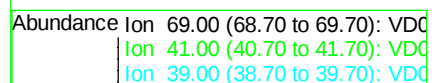
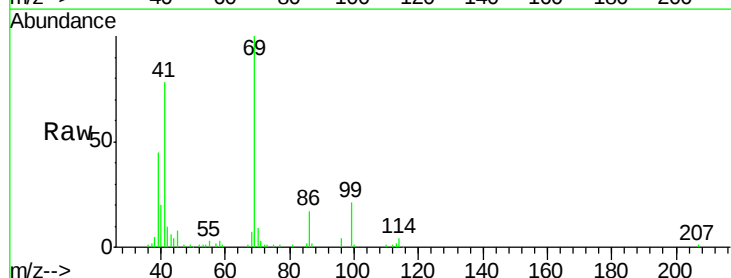
Tgt Ion: 69 Resp: 73308

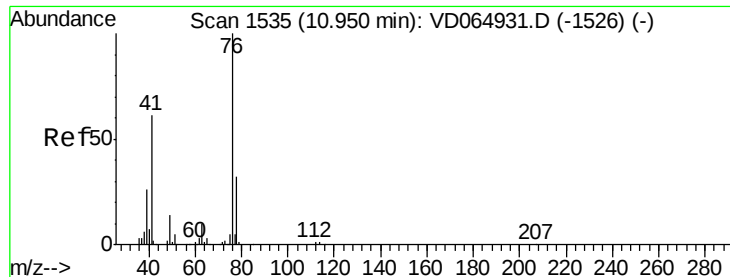
Ion Ratio Lower Upper

69 100

41 72.4 56.4 84.6

39 40.0 30.6 46.0





#57

1,3-Dichloropropane

Concen: 19.759 ug/l

RT: 10.95 min Scan# 1535

Delta R.T. 0.00 min

Lab File: VD064975.D

Acq: 28 Jan 2020 12:04

Instrument :

MSVOA_D

ClientSampleId :

VD0128SBS01

Tot Ion: 76 Resp: 109337

Ion Ratio Lower Upper

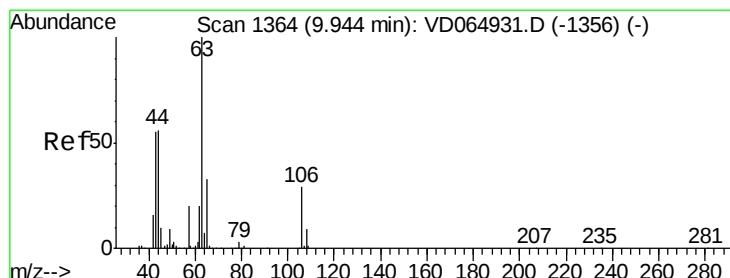
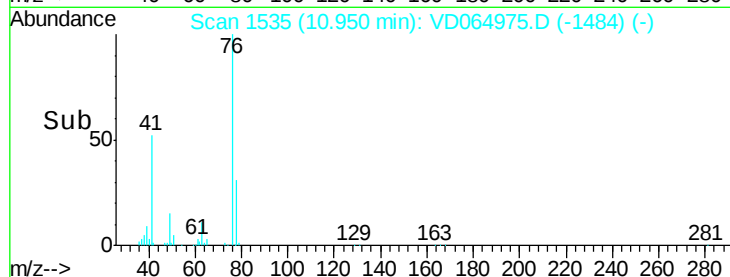
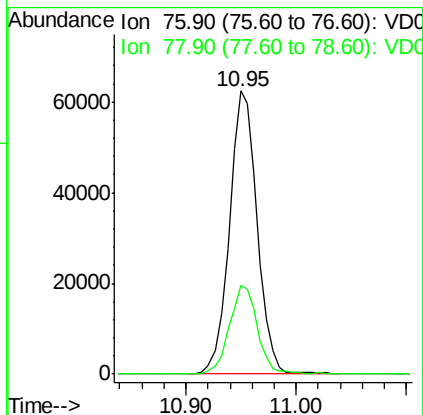
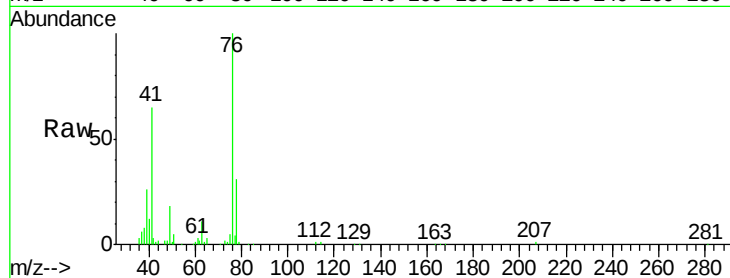
76 100

78 31.6 25.7 38.5

Manual Integrations
APPROVED

MMDadoda

1/29/2020 12:55:54 PM



#58

2-Chloroethyl Vinyl ether

Concen: 97.662 ug/l

RT: 9.94 min Scan# 1364

Delta R.T. 0.00 min

Lab File: VD064975.D

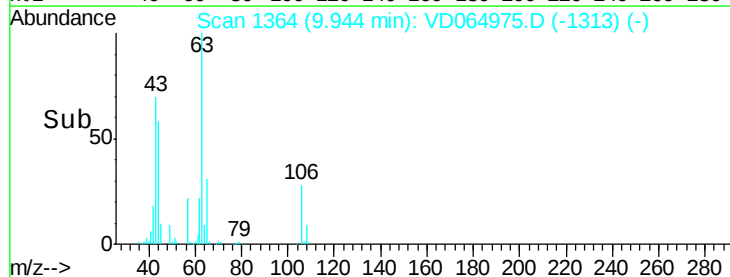
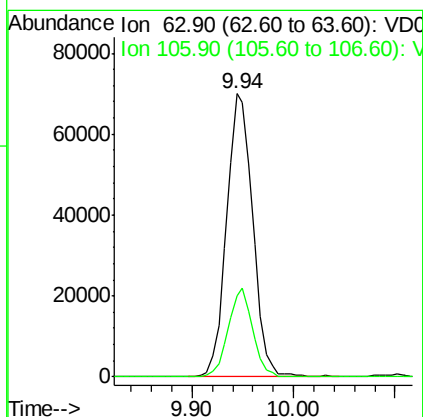
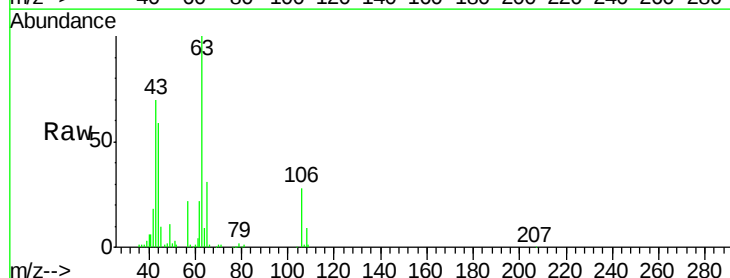
Acq: 28 Jan 2020 12:04

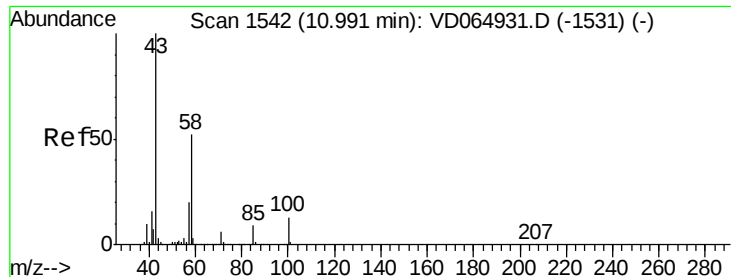
Tgt Ion: 63 Resp: 125178

Ion Ratio Lower Upper

63 100

106 29.1 23.0 34.4





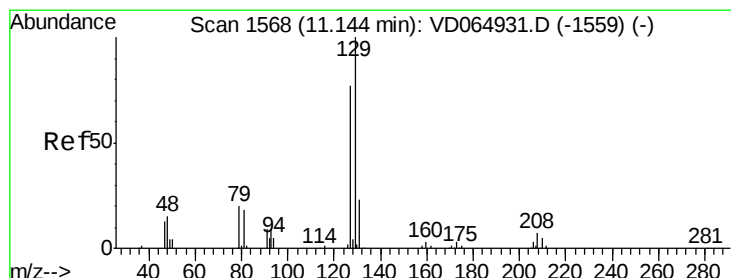
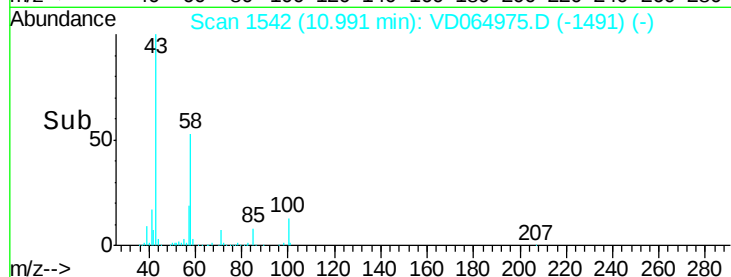
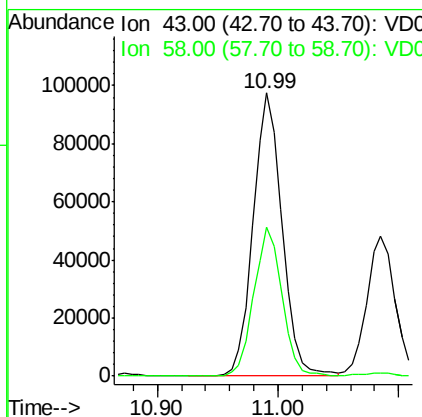
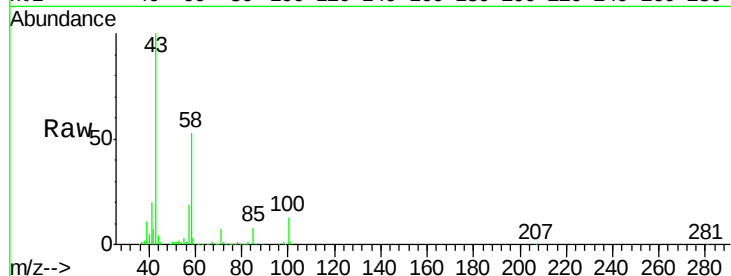
#59
2-Hexanone
Concen: 91.784 ug/l
RT: 10.99 min Scan# 1542
Delta R.T. 0.00 min
Lab File: VD064975.D
Acq: 28 Jan 2020 12:04

Instrument :
MSVOA_D
ClientSampleId :
VD0128SBS01

Tot Ion: 43 Resp: 163318
Ion Ratio Lower Upper
43 100
58 51.3 26.5 79.4

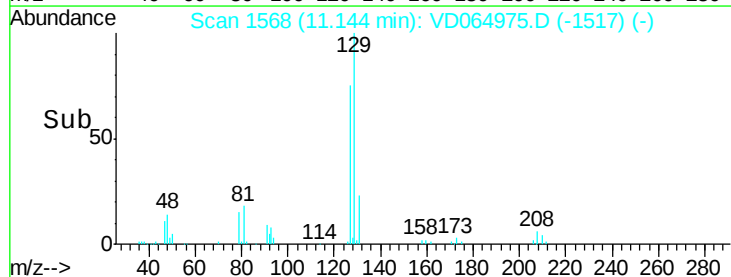
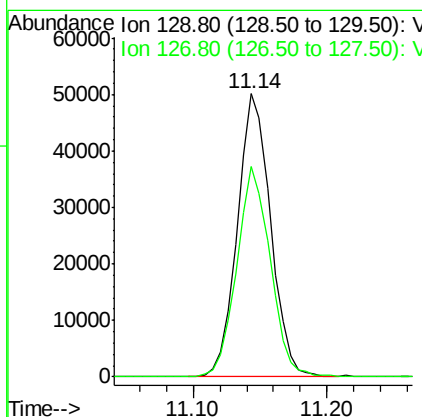
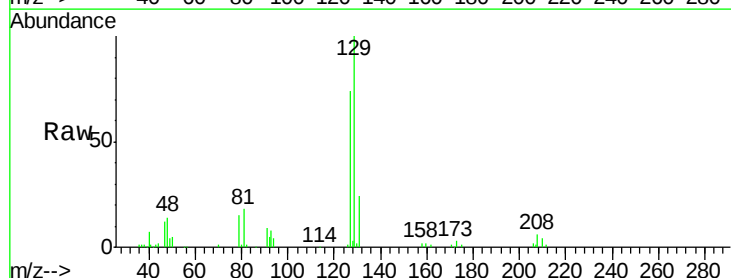
Manual Integrations
APPROVED

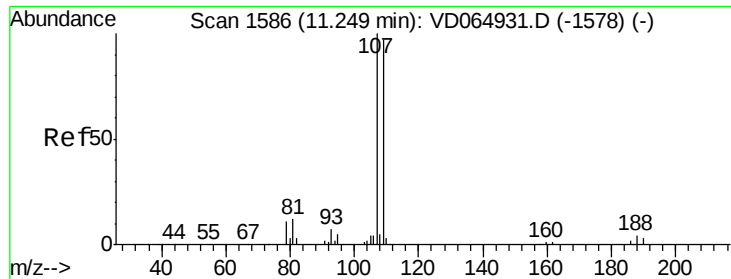
MMDadoda
1/29/2020 12:55:54 PM



#60
Dibromochloromethane
Concen: 20.026 ug/l
RT: 11.14 min Scan# 1568
Delta R.T. 0.00 min
Lab File: VD064975.D
Acq: 28 Jan 2020 12:04

Tgt Ion:129 Resp: 86353
Ion Ratio Lower Upper
129 100
127 75.0 38.2 114.6





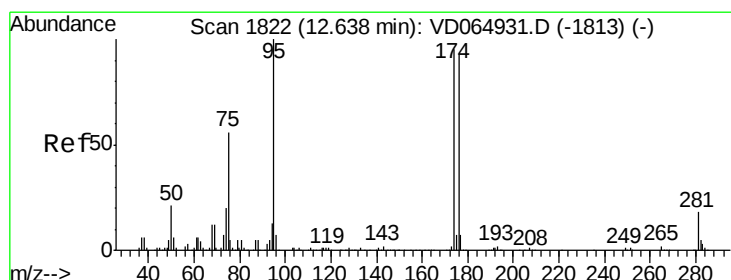
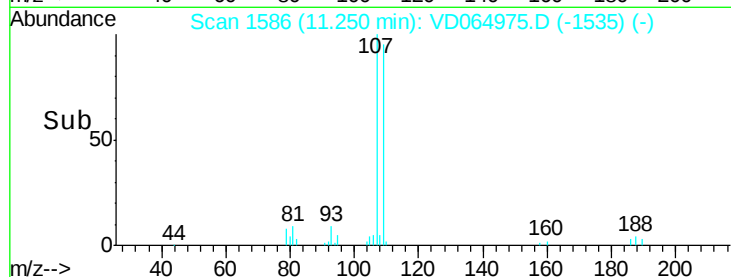
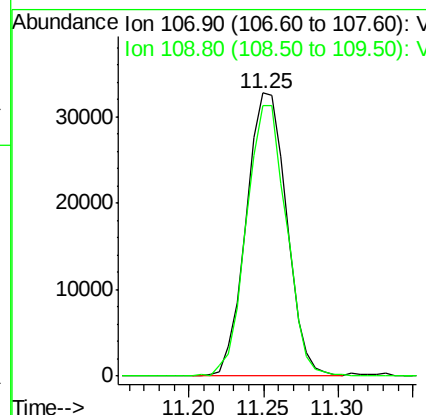
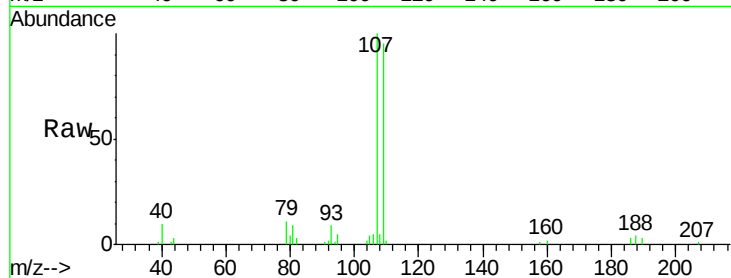
#61
1,2-Dibromoethane
Concen: 19.709 ug/l
RT: 11.25 min Scan# 1586
Delta R.T. 0.00 min
Lab File: VD064975.D
Acq: 28 Jan 2020 12:04

Instrument :
MSVOA_D
ClientSampleId :
VD0128SBS01

Tot Ion: 107 Resp: 61227
Ion Ratio Lower Upper
107 100
109 95.1 77.1 115.7

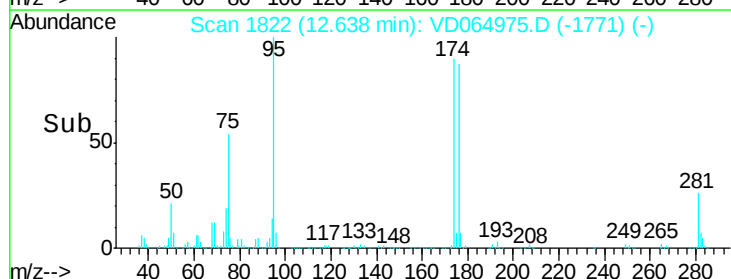
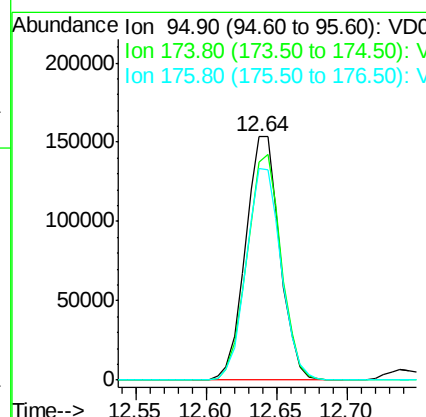
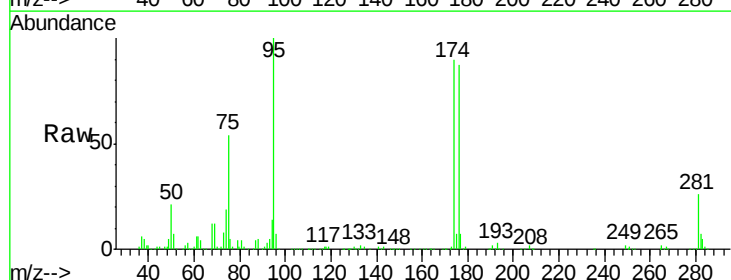
Manual Integrations
APPROVED

MMDadoda
1/29/2020 12:55:54 PM



#62
4-Bromofluorobenzene
Concen: 51.707 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. 0.00 min
Lab File: VD064975.D
Acq: 28 Jan 2020 12:04

Tgt Ion: 95 Resp: 261521
Ion Ratio Lower Upper
95 100
174 92.3 0.0 186.8
176 88.3 0.0 183.4





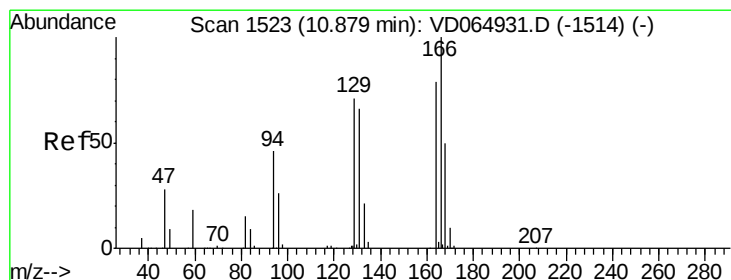
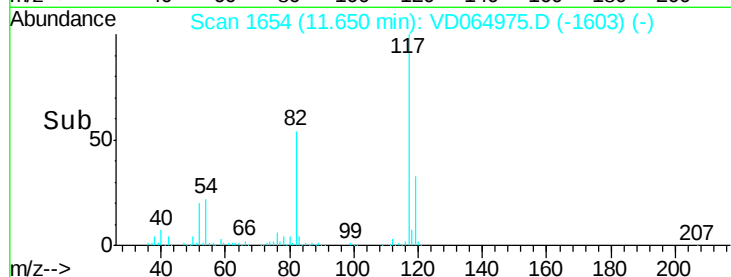
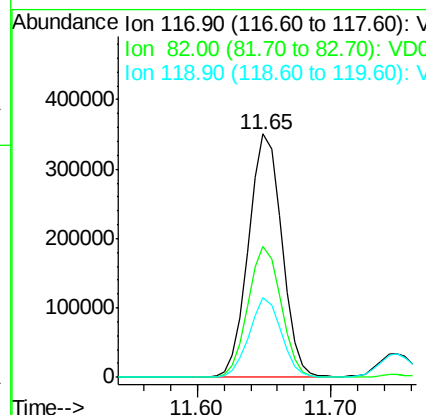
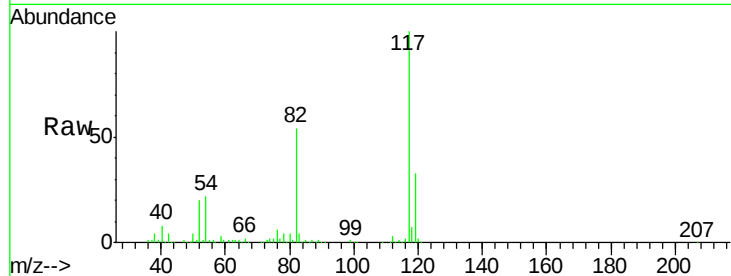
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. 0.00 min
Lab File: VD064975.D
Acq: 28 Jan 2020 12:04

Instrument :
MSVOA_D
ClientSampleId :
VD0128SBS01

Tot Ion	Ratio	Resp	Lower	Upper
117	100	604205		
82	53.9		43.6	65.4
119	32.6		25.2	37.8

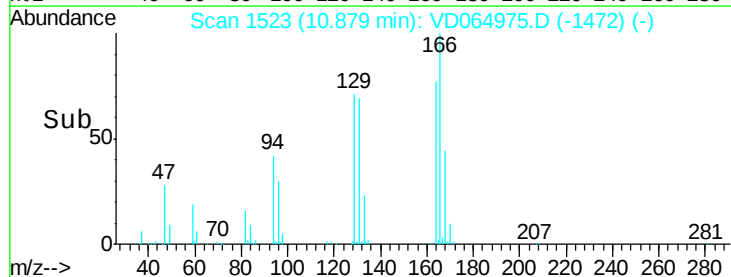
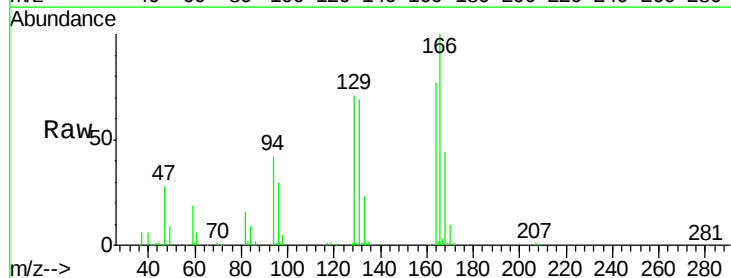
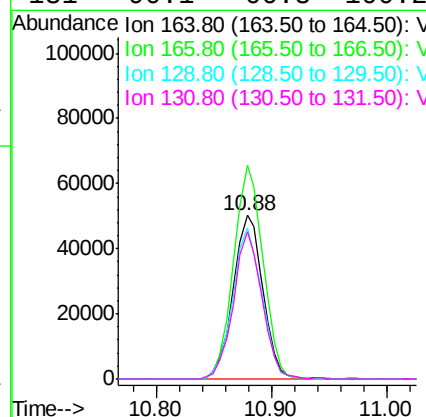
Manual Integrations
APPROVED

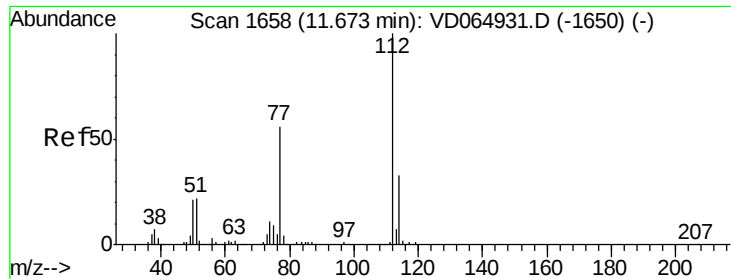
MMDadoda
1/29/2020 12:55:54 PM



#64
Tetrachloroethene
Concen: 20.512 ug/l
RT: 10.88 min Scan# 1523
Delta R.T. 0.00 min
Lab File: VD064975.D
Acq: 28 Jan 2020 12:04

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	89560		
166	130.4		101.4	152.2
129	92.3		71.8	107.8
131	90.1		66.8	100.2





#65

Chlorobenzene

Concen: 20.508 ug/l

RT: 11.68 min Scan# 1659

Delta R.T. 0.01 min

Lab File: VD064975.D

Acq: 28 Jan 2020 12:04

Instrument :

MSVOA_D

ClientSampleId :

VD0128SBS01

Tot Ion:112 Resp: 251581

Ion Ratio Lower Upper

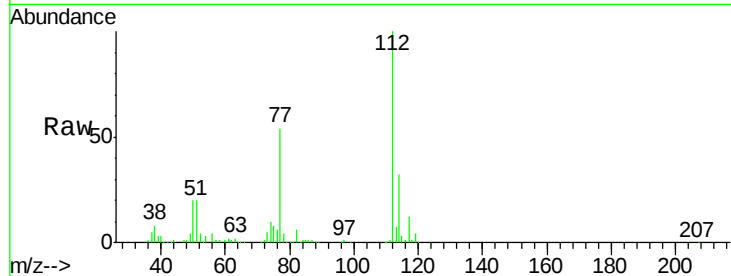
112 100

114 32.4 26.2 39.4

Manual Integrations
APPROVED

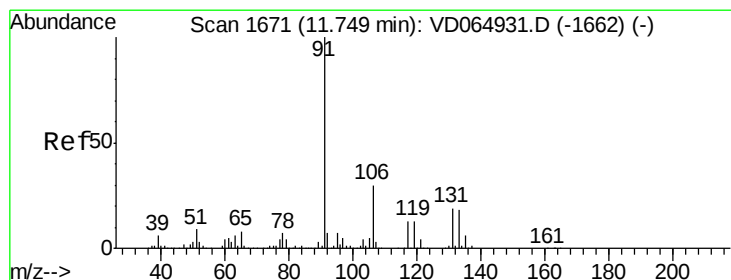
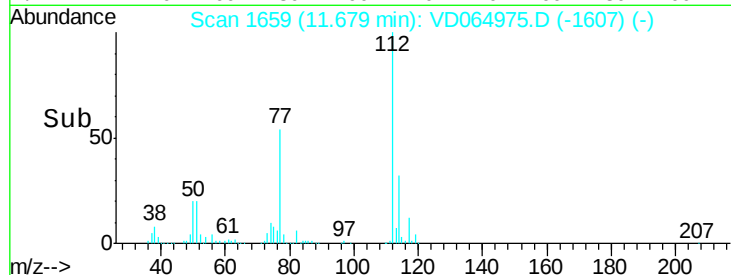
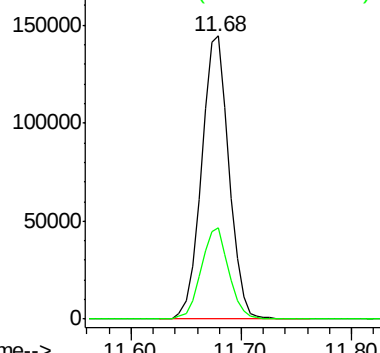
MMDadoda

1/29/2020 12:55:54 PM



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#66

1,1,1,2-Tetrachloroethane

Concen: 19.957 ug/l

RT: 11.75 min Scan# 1671

Delta R.T. 0.00 min

Lab File: VD064975.D

Acq: 28 Jan 2020 12:04

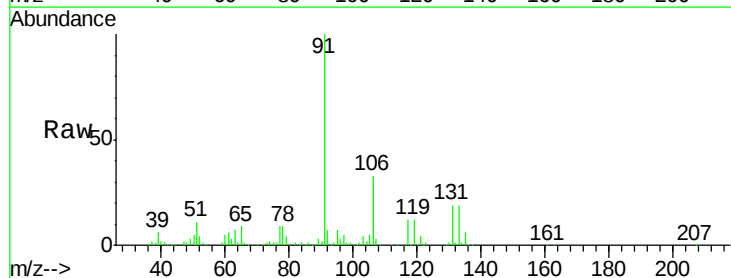
Tgt Ion:131 Resp: 92075

Ion Ratio Lower Upper

131 100

133 96.2 47.5 142.5

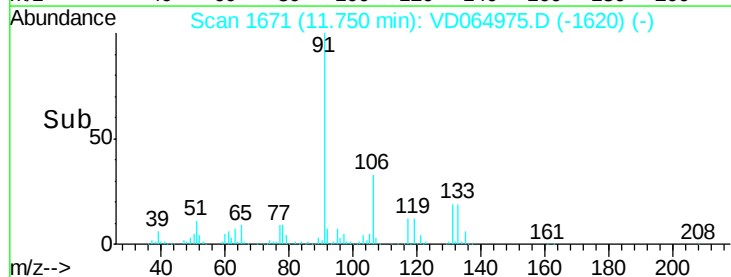
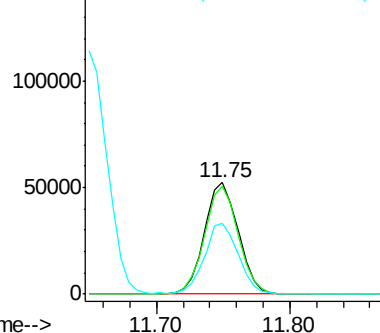
119 63.9 31.1 93.5

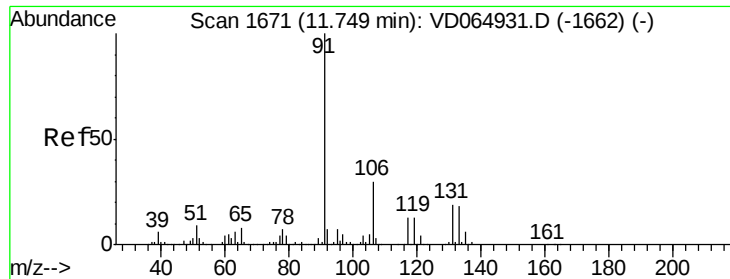


Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V





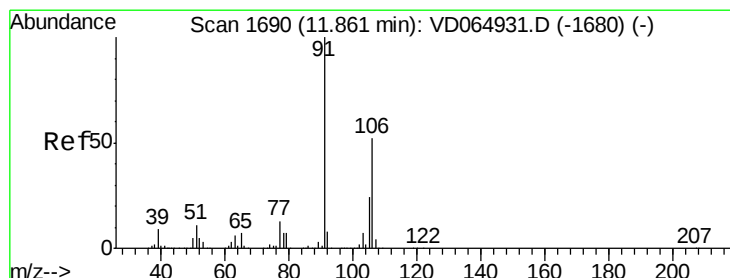
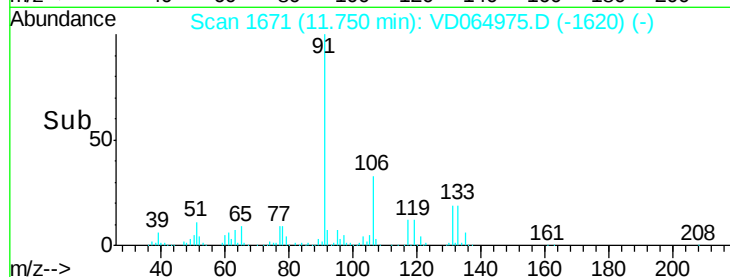
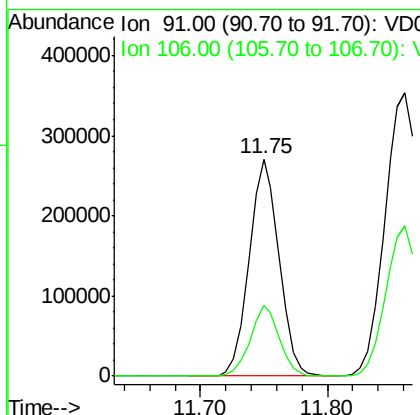
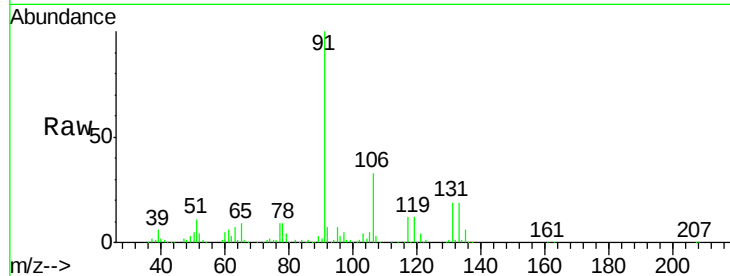
#67
Ethyl Benzene
Concen: 20.312 ug/l
RT: 11.75 min Scan# 1671
Delta R.T. 0.00 min
Lab File: VD064975.D
Acq: 28 Jan 2020 12:04

Instrument :
MSVOA_D
ClientSampleId :
VD0128SBS01

Tot Ion: 91 Resp: 442379
Ion Ratio Lower Upper
91 100
106 32.7 24.3 36.5

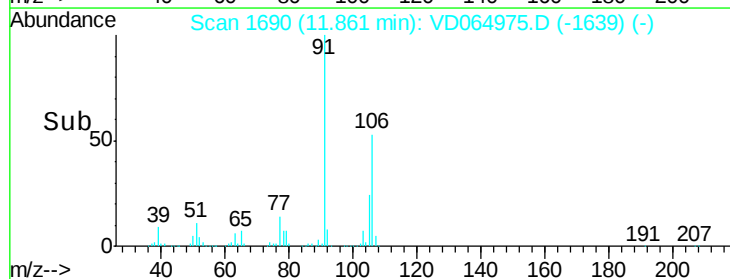
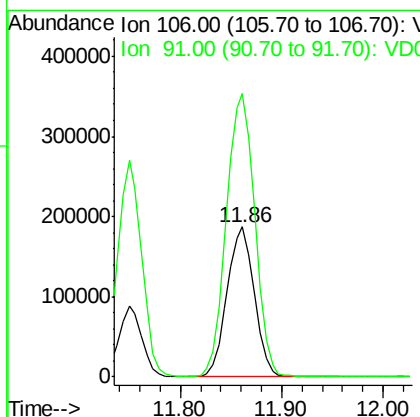
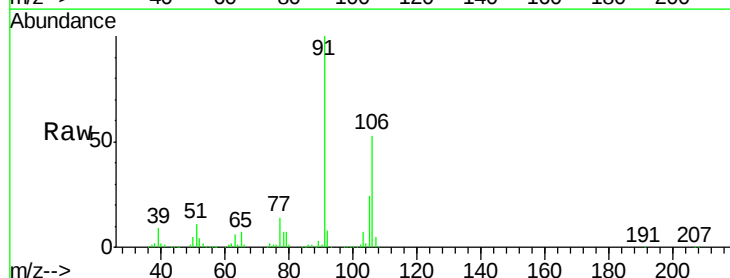
Manual Integrations
APPROVED

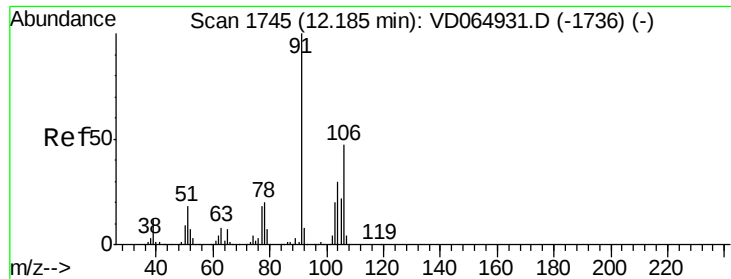
MMDadoda
1/29/2020 12:55:54 PM



#68
m/p-Xylenes
Concen: 41.588 ug/l
RT: 11.86 min Scan# 1690
Delta R.T. 0.00 min
Lab File: VD064975.D
Acq: 28 Jan 2020 12:04

Tgt Ion: 106 Resp: 348738
Ion Ratio Lower Upper
106 100
91 197.2 159.0 238.4





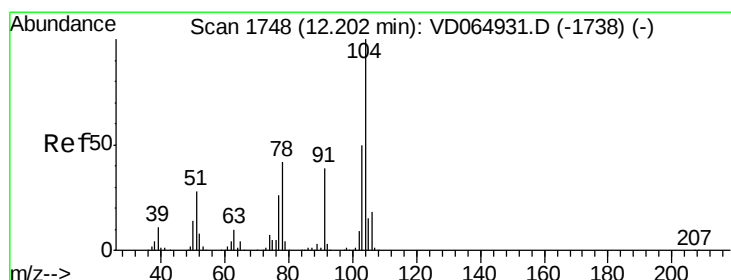
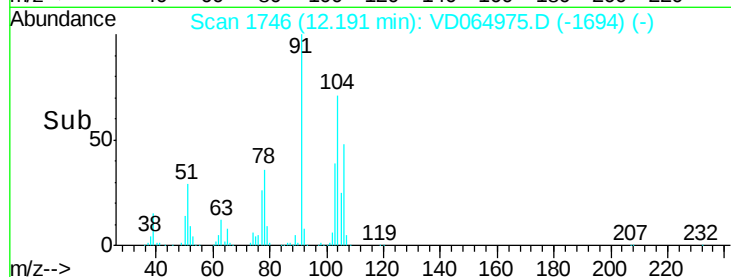
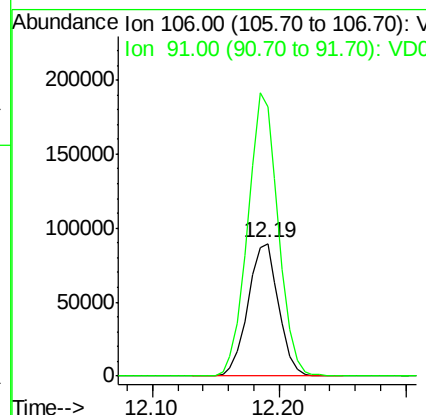
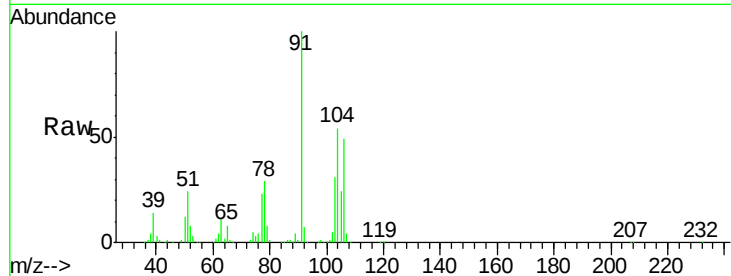
#69
o-Xylene
Concen: 20.231 ug/l
RT: 12.19 min Scan# 1746
Delta R.T. 0.01 min
Lab File: VD064975.D
Acq: 28 Jan 2020 12:04

Instrument :
MSVOA_D
ClientSampleId :
VD0128SBS01

Tot Ion:106 Resp: 150564
Ion Ratio Lower Upper
106 100
91 211.8 106.7 319.9

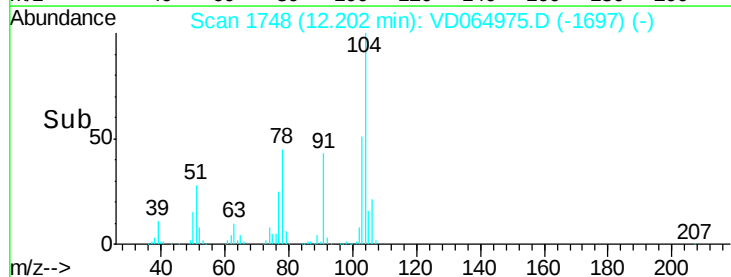
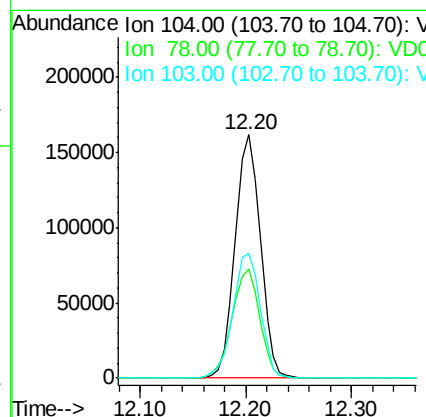
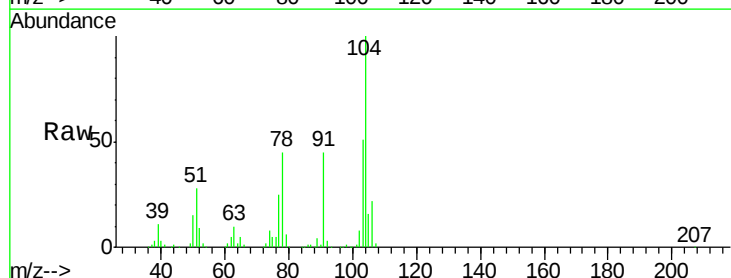
Manual Integrations
APPROVED

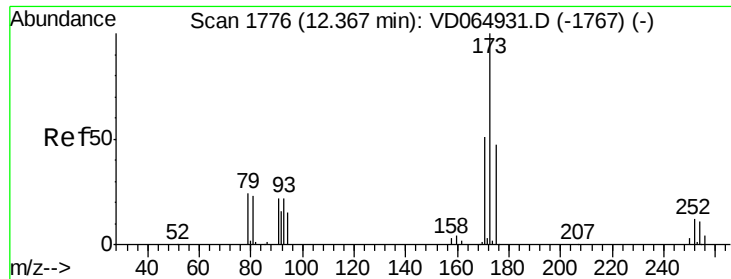
MMDadoda
1/29/2020 12:55:54 PM



#70
Styrene
Concen: 20.257 ug/l
RT: 12.20 min Scan# 1748
Delta R.T. 0.00 min
Lab File: VD064975.D
Acq: 28 Jan 2020 12:04

Tgt Ion:104 Resp: 268554
Ion Ratio Lower Upper
104 100
78 49.0 38.3 57.5
103 55.4 43.5 65.3





#71

Bromoform

Concen: 18.973 ug/l

RT: 12.37 min Scan# 1777

Delta R.T. 0.01 min

Lab File: VD064975.D

Acq: 28 Jan 2020 12:04

Instrument :

MSVOA_D

ClientSampleId :

VD0128SBS01

Tot Ion:173 Resp: 48659

Ion Ratio Lower Upper

173 100

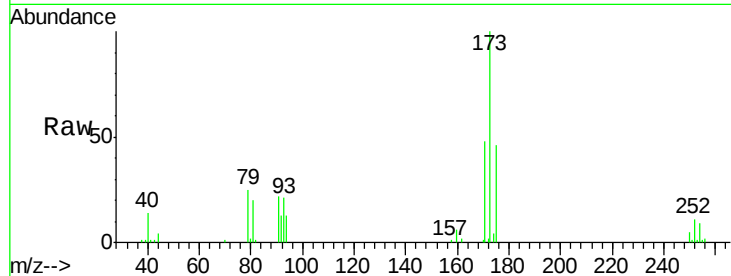
175 49.6 24.6 73.8

254 0.2 0.1 0.1#

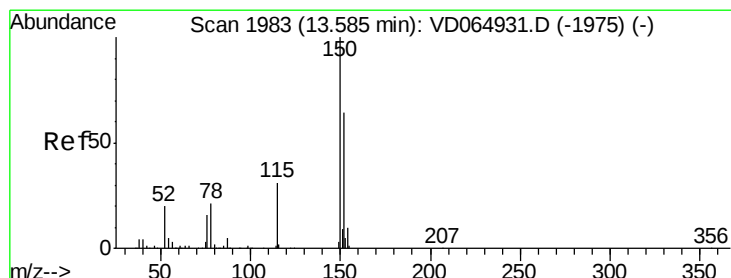
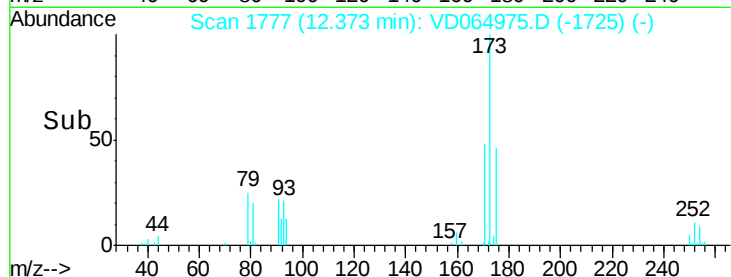
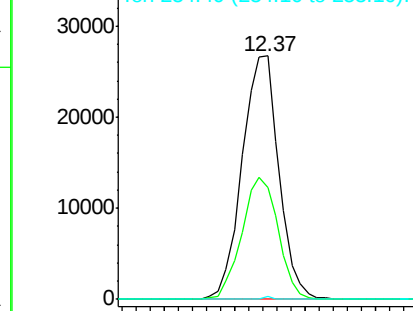
Manual Integrations
APPROVED

MMDadoda

1/29/2020 12:55:54 PM



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1983

Delta R.T. 0.00 min

Lab File: VD064975.D

Acq: 28 Jan 2020 12:04

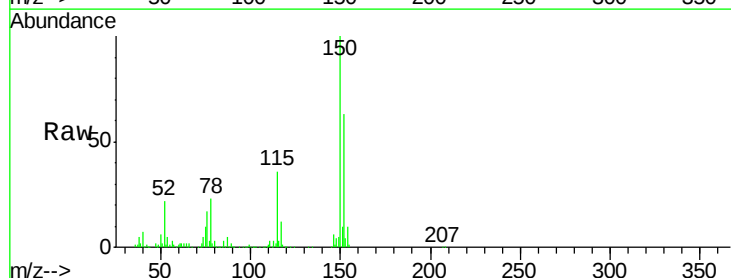
Tgt Ion:152 Resp: 291226

Ion Ratio Lower Upper

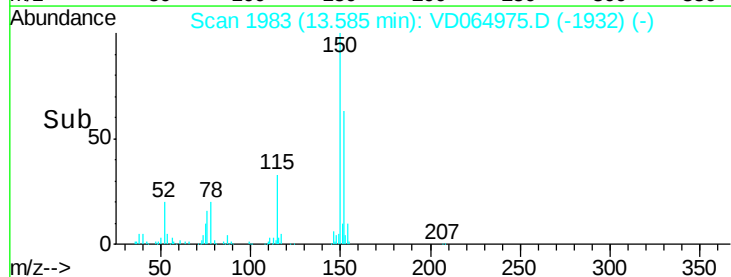
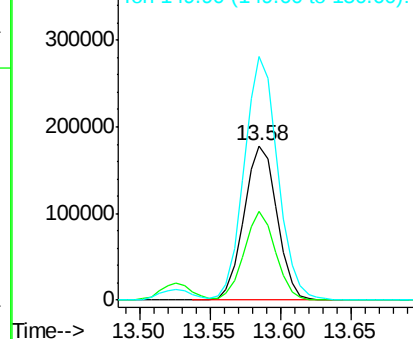
152 100

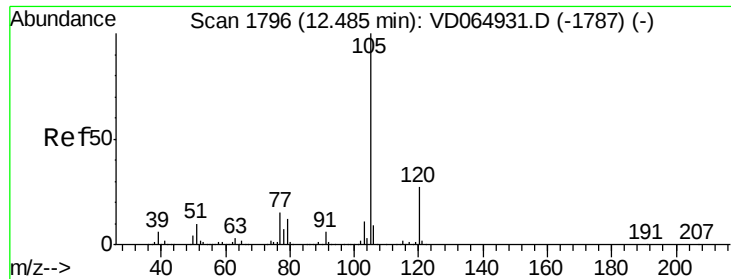
115 54.4 28.1 84.4

150 160.8 0.0 350.4



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 21.187 ug/l

RT: 12.48 min Scan# 1796

Delta R.T. 0.00 min

Lab File: VD064975.D

Acq: 28 Jan 2020 12:04

Instrument :

MSVOA_D

ClientSampleId :

VD0128SBS01

Tot Ion:105 Resp: 421735

Ion Ratio Lower Upper

105 100

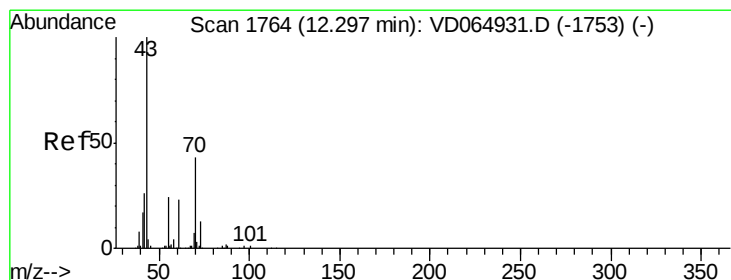
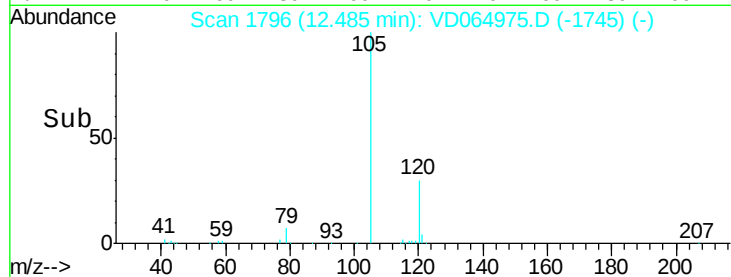
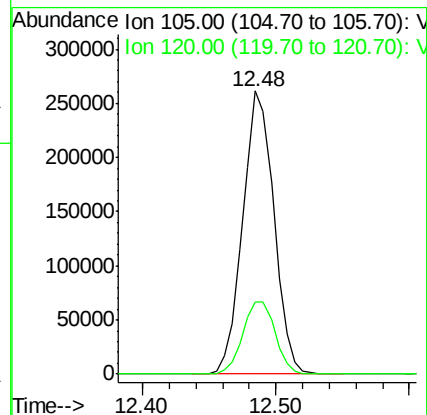
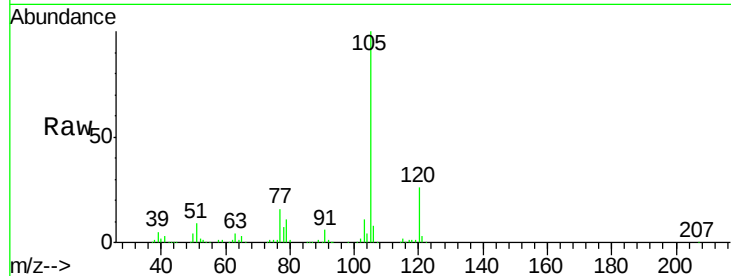
120 26.7 13.3 39.8

Manual Integrations

APPROVED

MMDadoda

1/29/2020 12:55:54 PM



#74

N-ethyl acetate

Concen: 18.843 ug/l

RT: 12.30 min Scan# 1764

Delta R.T. 0.00 min

Lab File: VD064975.D

Acq: 28 Jan 2020 12:04

Tgt Ion: 43 Resp: 83928

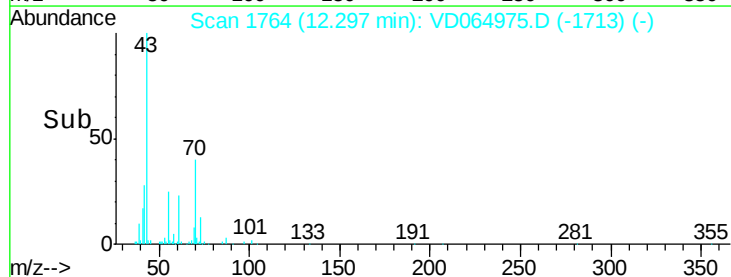
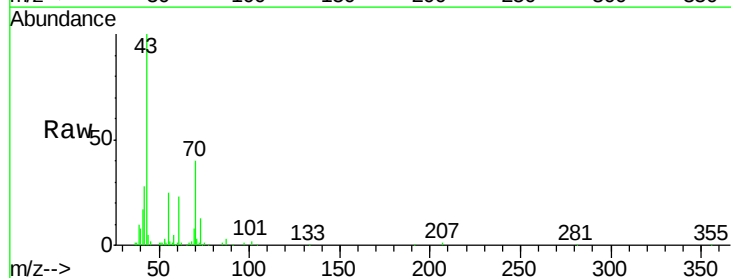
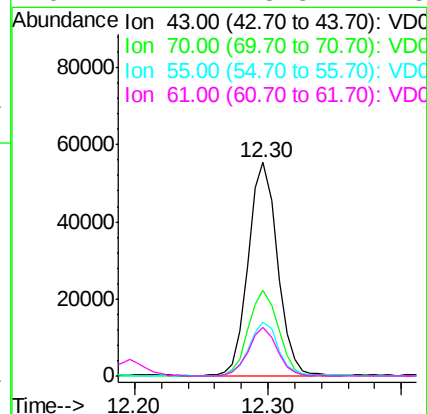
Ion Ratio Lower Upper

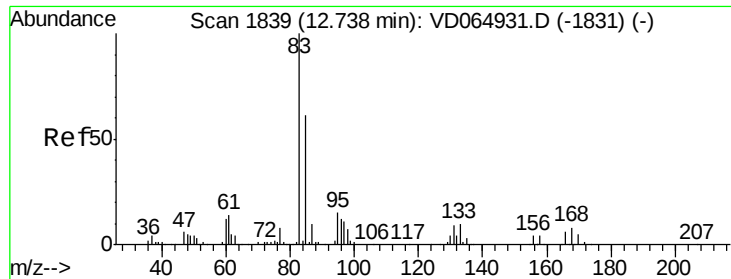
43 100

70 41.1 32.6 49.0

55 25.3 19.9 29.9

61 22.4 18.3 27.5





#75

1,1,2,2-Tetrachloroethane

Concen: 19.279 ug/l

RT: 12.74 min Scan# 1839

Delta R.T. 0.00 min

Lab File: VD064975.D

Acq: 28 Jan 2020 12:04

Instrument :

MSVOA_D

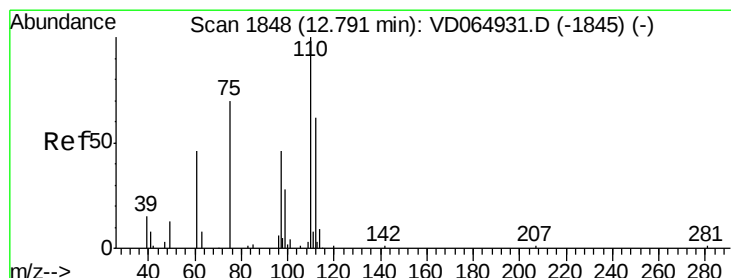
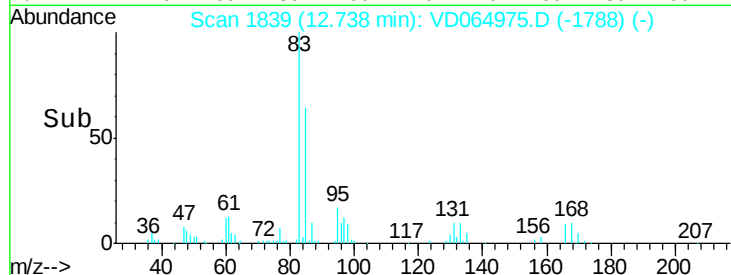
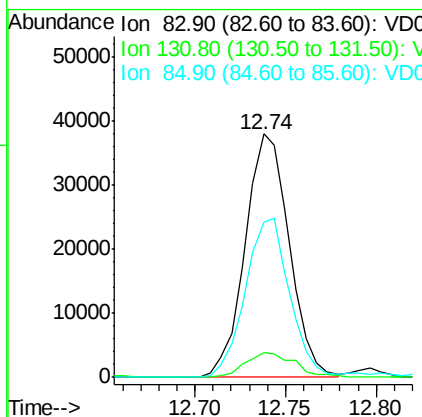
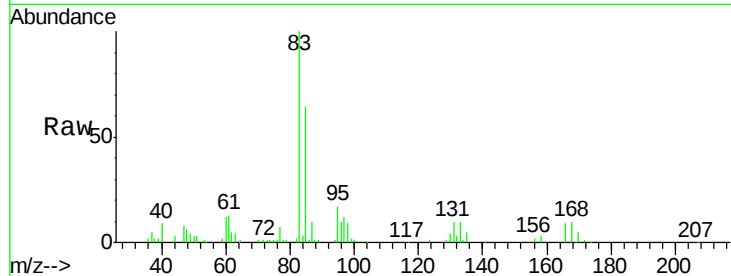
ClientSampleId :

VD0128SBS01

Tot Ion:	83	Resp:	64497
Ion Ratio	Lower	Upper	
83	100		
131	11.2	5.5	16.4
85	65.4	31.6	94.7

Manual Integrations
APPROVED

MMDadoda
1/29/2020 12:55:54 PM



#76

1,2,3-Trichloropropane

Concen: 18.630 ug/l m

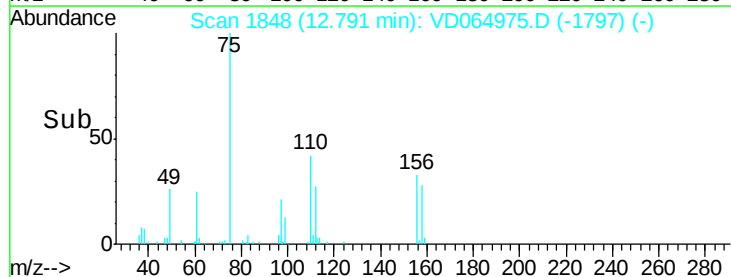
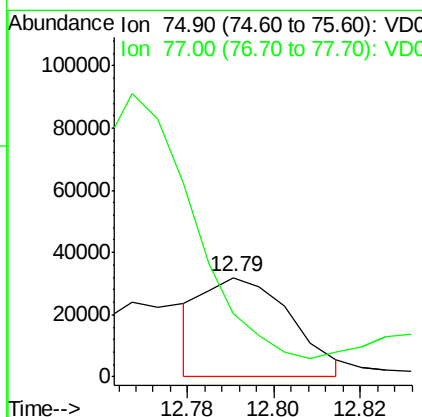
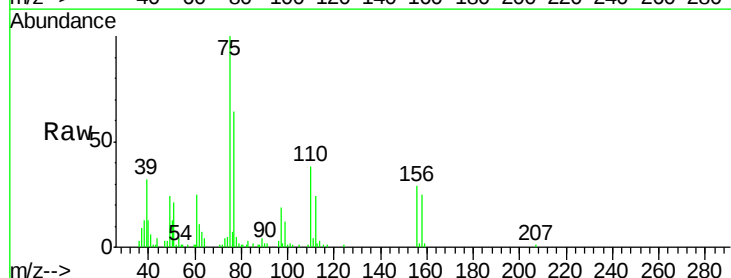
RT: 12.79 min Scan# 1848

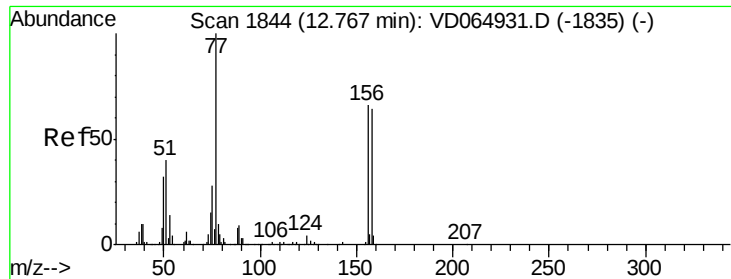
Delta R.T. 0.00 min

Lab File: VD064975.D

Acq: 28 Jan 2020 12:04

Tgt Ion:	75	Resp:	45033
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





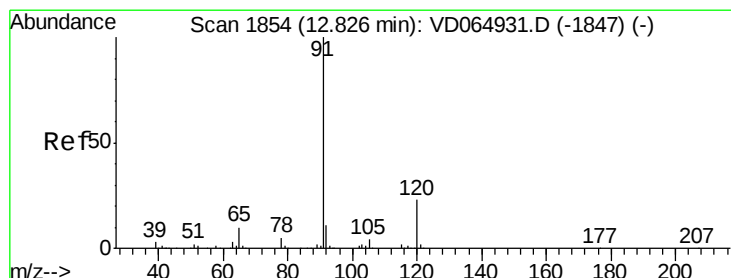
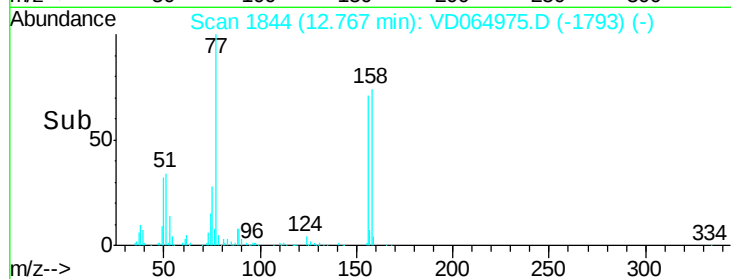
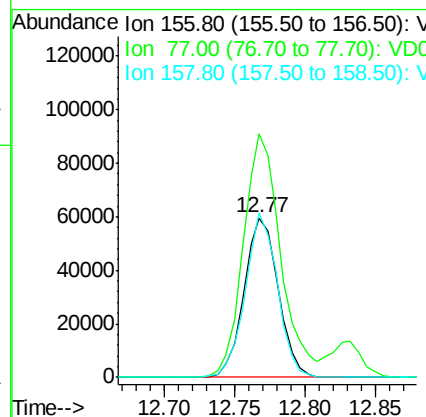
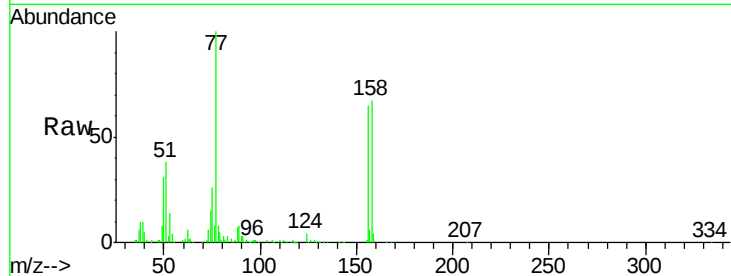
#77
Bromobenzene
Concen: 20.725 ug/l
RT: 12.77 min Scan# 1844
Delta R.T. 0.00 min
Lab File: VD064975.D
Acq: 28 Jan 2020 12:04

Instrument :
MSVOA_D
ClientSampleId :
VD0128SBS01

Tot Ion	Ratio	Lower	Upper
156	100		
77	166.8	84.2	252.5
158	97.2	48.1	144.4

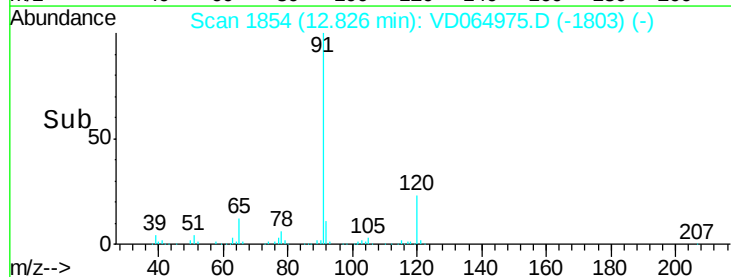
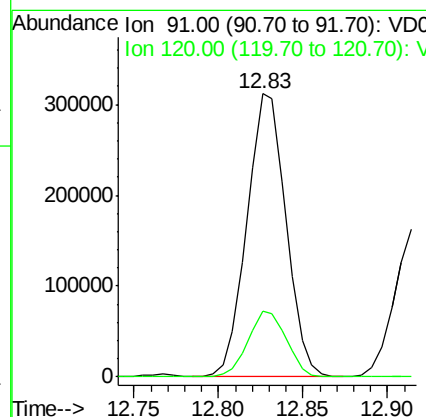
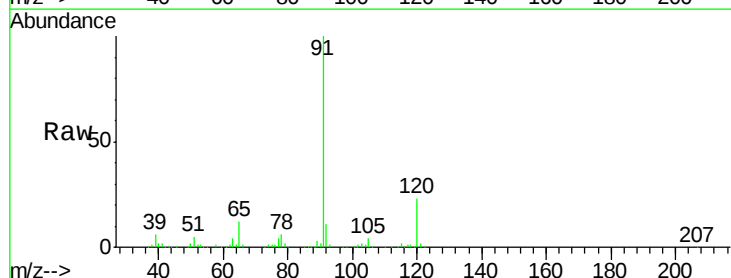
Manual Integrations
APPROVED

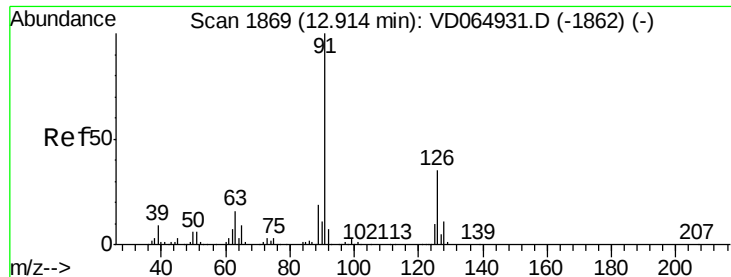
MMDadoda
1/29/2020 12:55:54 PM



#78
n-propylbenzene
Concen: 21.139 ug/l
RT: 12.83 min Scan# 1854
Delta R.T. 0.00 min
Lab File: VD064975.D
Acq: 28 Jan 2020 12:04

Tgt Ion	Ratio	Lower	Upper
91	100		
120	23.0	11.7	35.1





#79

2-Chlorotoluene

Concen: 21.193 ug/l

RT: 12.91 min Scan# 1869

Delta R.T. 0.00 min

Lab File: VD064975.D

Acq: 28 Jan 2020 12:04

Instrument :

MSVOA_D

ClientSampleId :

VD0128SBS01

Tot Ion: 91 Resp: 275214

Ion Ratio Lower Upper

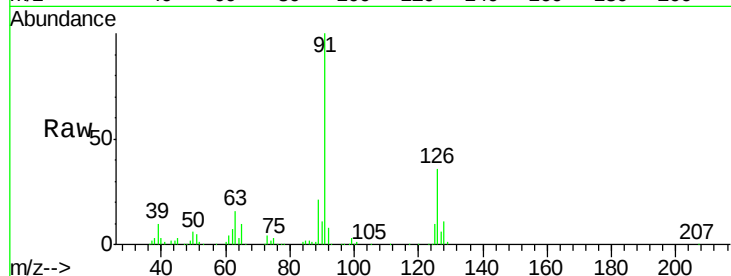
91 100

126 35.2 17.9 53.8

Manual Integrations
APPROVED

MMDadoda

1/29/2020 12:55:54 PM



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

Ion 125.90 (125.60 to 126.60): VD064931.D (-1862) (-)

250000

200000

150000

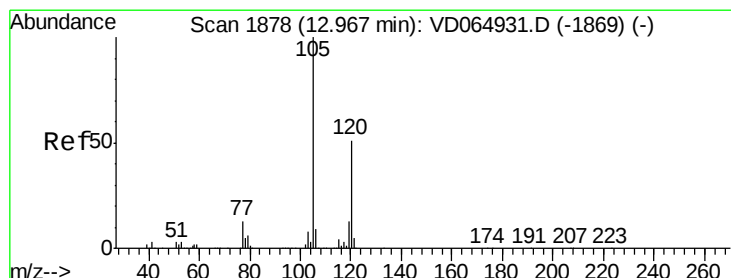
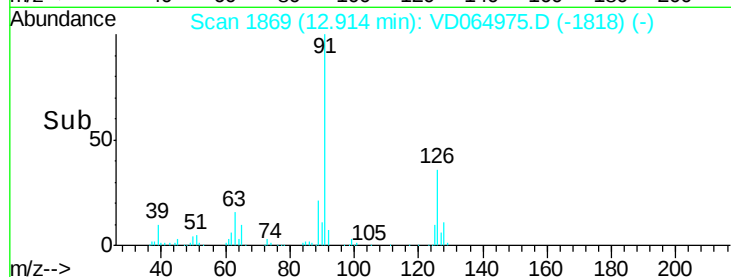
100000

50000

0

12.85 12.90 12.95

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 21.540 ug/l

RT: 12.97 min Scan# 1878

Delta R.T. 0.00 min

Lab File: VD064975.D

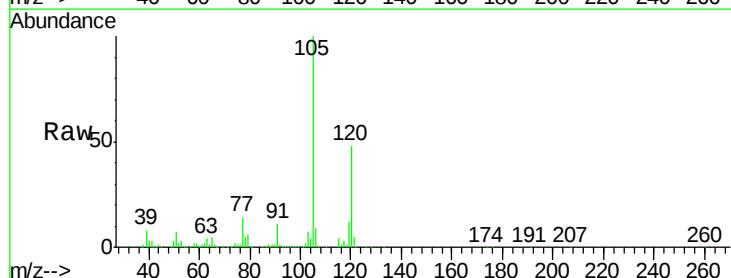
Acq: 28 Jan 2020 12:04

Tgt Ion: 105 Resp: 351355

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) (-)

Ion 120.00 (119.70 to 120.70): VD064931.D (-1869) (-)

250000

200000

150000

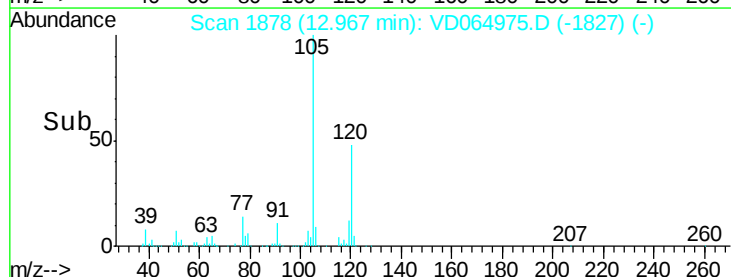
100000

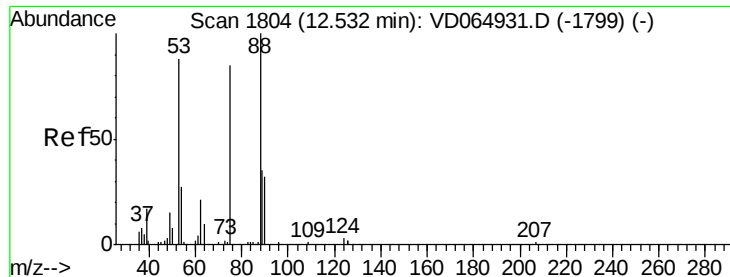
50000

0

12.90 13.00

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 19.584 ug/l

RT: 12.54 min Scan# 1805

Delta R.T. 0.01 min

Lab File: VD064975.D

Acq: 28 Jan 2020 12:04

Instrument :

MSVOA_D

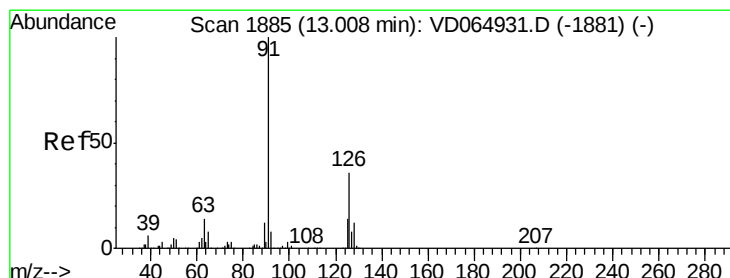
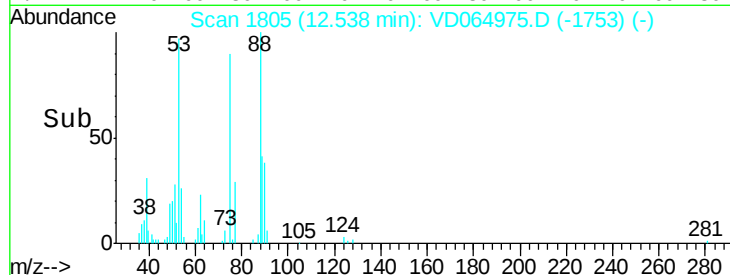
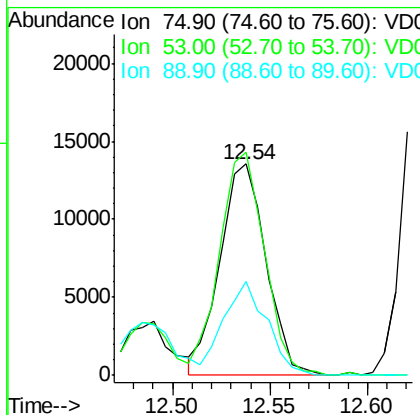
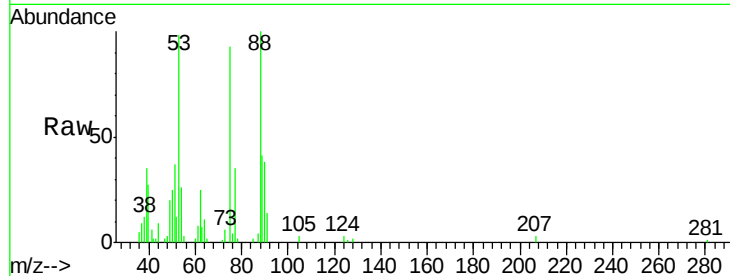
ClientSampleId :

VD0128SBS01

Tot Ion:	75	Resp:	22170
Ion	Ratio	Lower	Upper
75	100		
53	103.3	81.0	121.4
89	41.8	36.2	54.4

Manual Integrations
APPROVED

MMDadoda
1/29/2020 12:55:54 PM



#82

4-Chlorotoluene

Concen: 21.085 ug/l

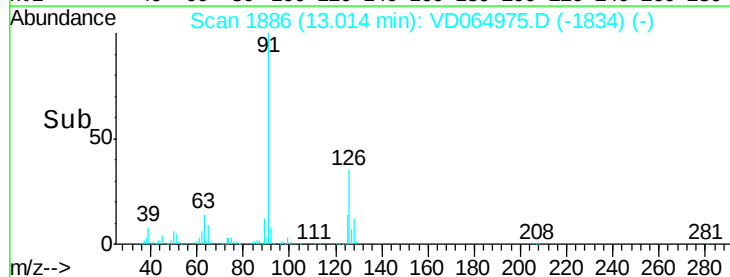
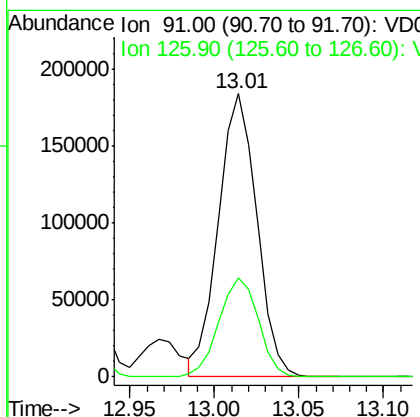
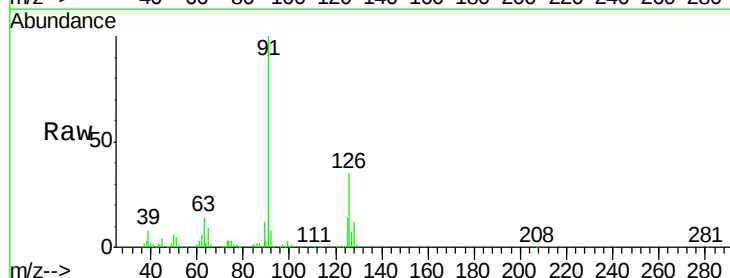
RT: 13.01 min Scan# 1886

Delta R.T. 0.01 min

Lab File: VD064975.D

Acq: 28 Jan 2020 12:04

Tgt Ion:	91	Resp:	290372
Ion	Ratio	Lower	Upper
91	100		
126	36.2	18.0	54.0





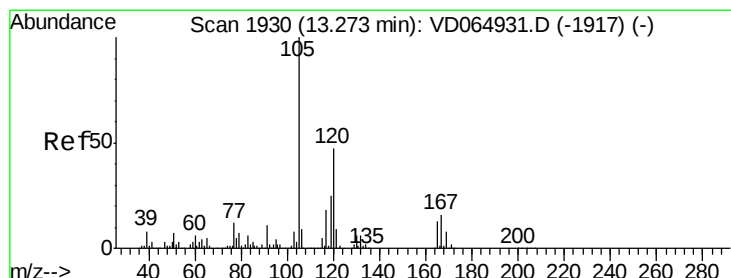
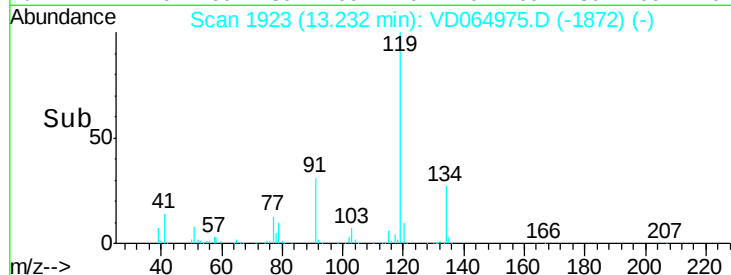
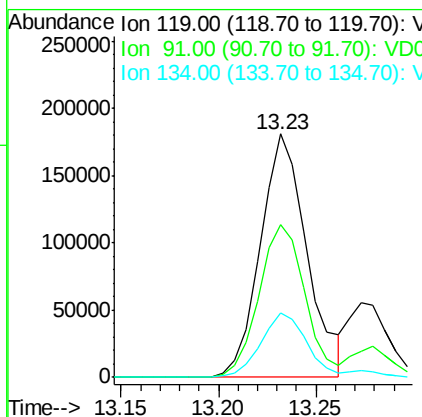
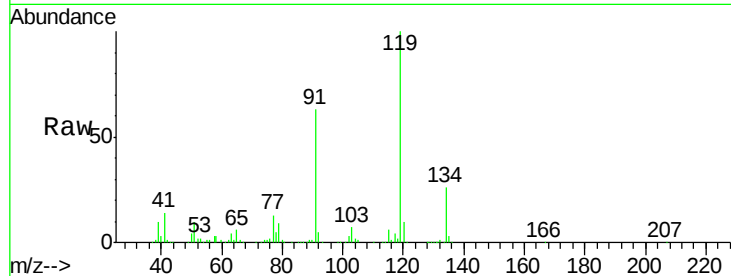
#83
tert-Butylbenzene
Concen: 21.656 ug/l
RT: 13.23 min Scan# 1923
Delta R.T. 0.00 min
Lab File: VD064975.D
Acq: 28 Jan 2020 12:04

Instrument :
MSVOA_D
ClientSampleId :
VD0128SBS01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	299781		
91	61.8	32.0	96.0	
134	26.1	13.9	41.6	

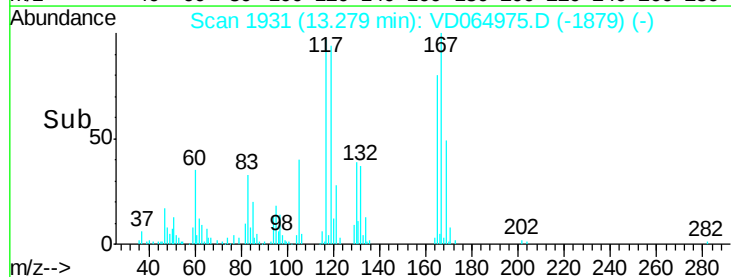
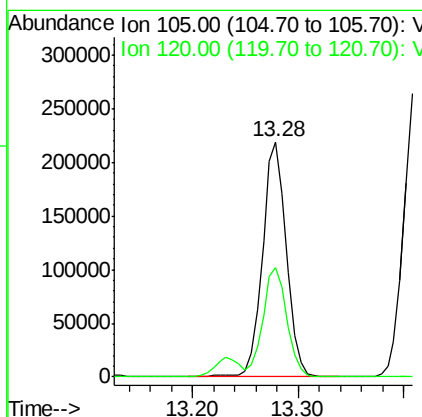
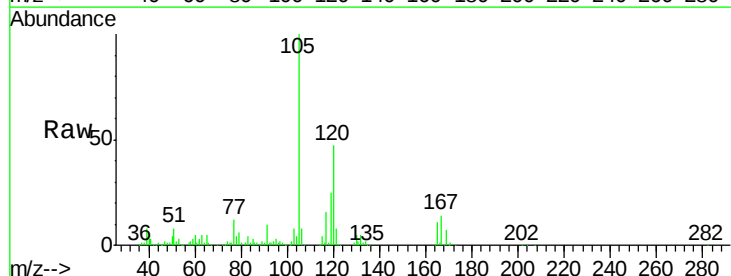
Manual Integrations
APPROVED

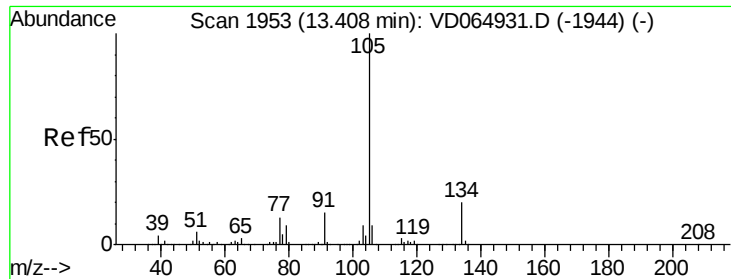
MMDadoda
1/29/2020 12:55:54 PM



#84
1,2,4-Trimethylbenzene
Concen: 20.754 ug/l
RT: 13.28 min Scan# 1931
Delta R.T. 0.01 min
Lab File: VD064975.D
Acq: 28 Jan 2020 12:04

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	342951		
120	46.6	23.1	69.3	





#85

sec-Butylbenzene

Concen: 21.364 ug/l

RT: 13.41 min Scan# 1953

Delta R.T. 0.00 min

Lab File: VD064975.D

Acq: 28 Jan 2020 12:04

Instrument :

MSVOA_D

ClientSampleId :

VD0128SBS01

Tot Ion:105 Resp: 418746

Ion Ratio Lower Upper

105 100

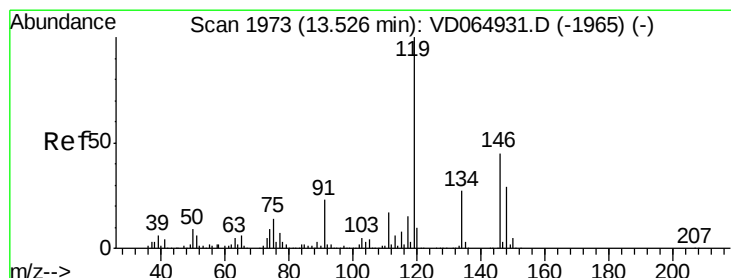
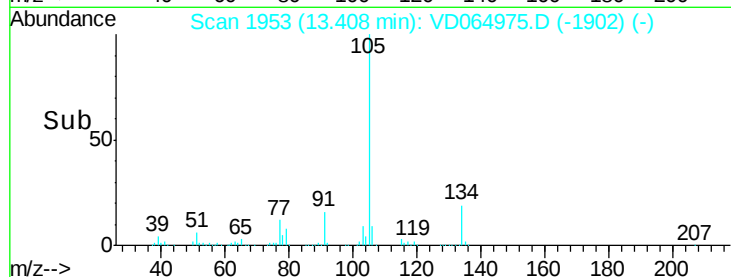
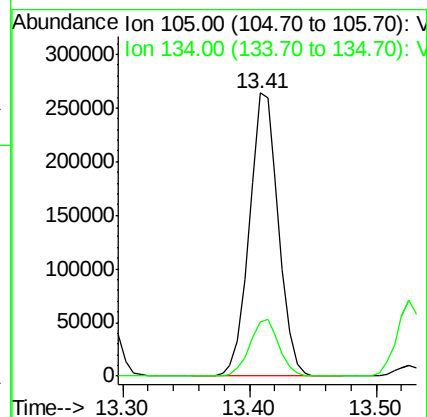
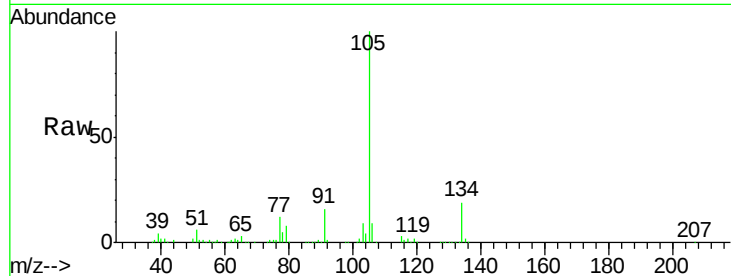
134 20.2 10.4 31.4

Manual Integrations

APPROVED

MMDadoda

1/29/2020 12:55:54 PM



#86

p-Isopropyltoluene

Concen: 20.675 ug/l

RT: 13.53 min Scan# 1973

Delta R.T. 0.00 min

Lab File: VD064975.D

Acq: 28 Jan 2020 12:04

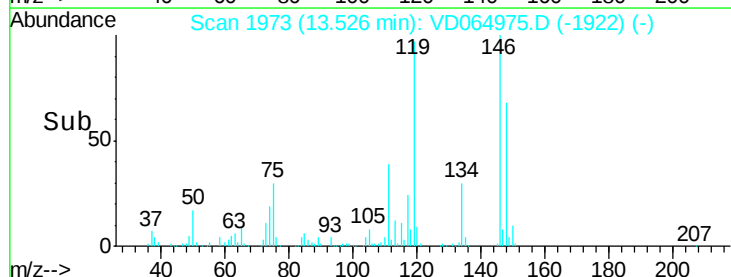
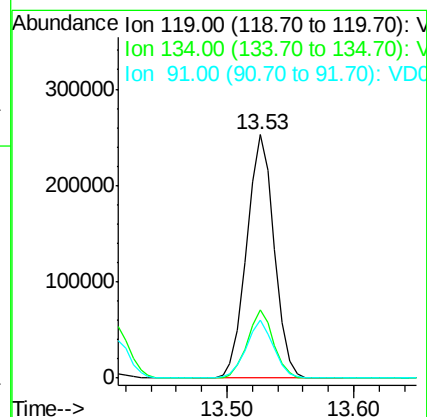
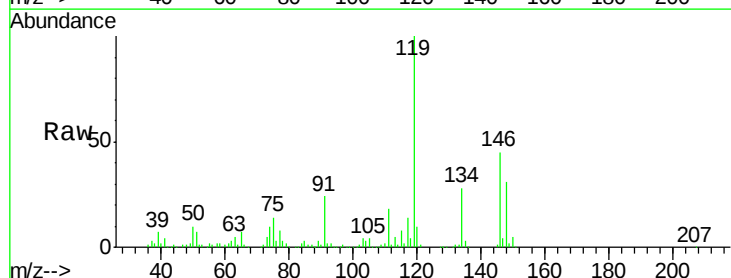
Tgt Ion:119 Resp: 379208

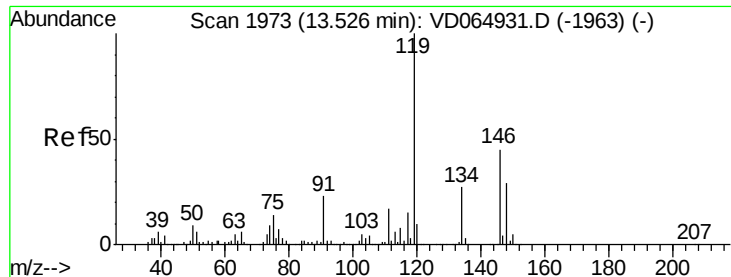
Ion Ratio Lower Upper

119 100

134 26.9 13.3 39.9

91 23.1 11.4 34.2





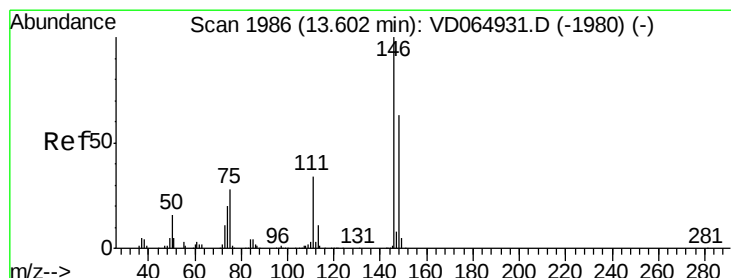
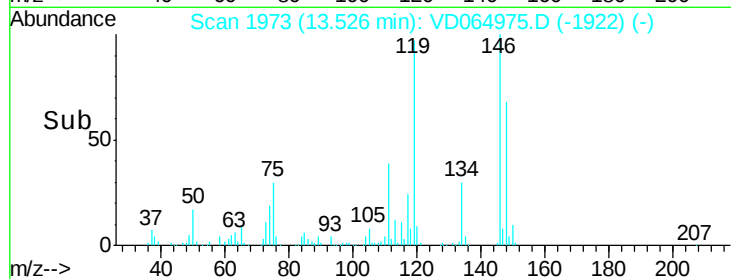
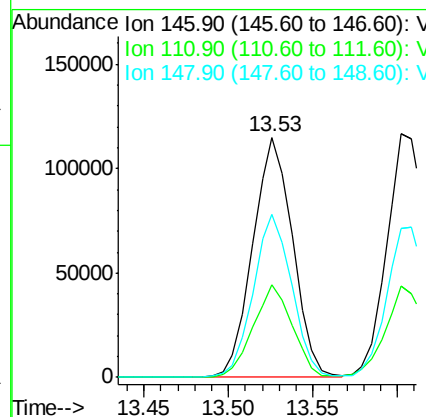
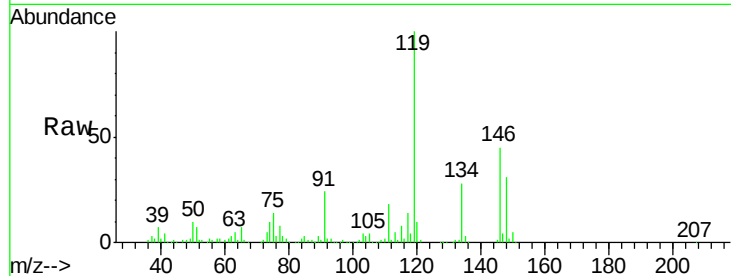
#87
 1,3-Dichlorobenzene
 Concen: 20.197 ug/l
 RT: 13.53 min Scan# 1973
 Delta R.T. 0.00 min
 Lab File: VD064975.D
 Acq: 28 Jan 2020 12:04

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0128SBS01

Tot Ion	Ratio	Resp	Lower	Upper
146	100	188736		
111	37.9	18.9	56.9	
148	65.7	32.6	97.7	

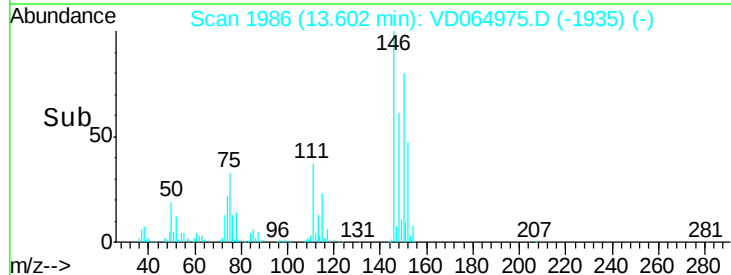
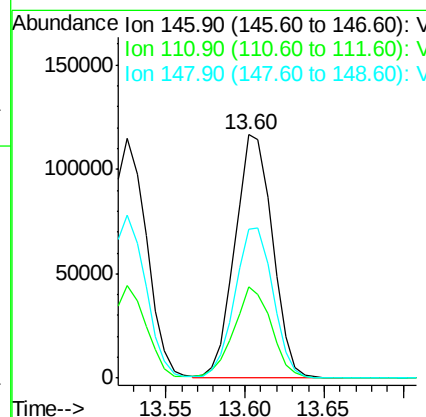
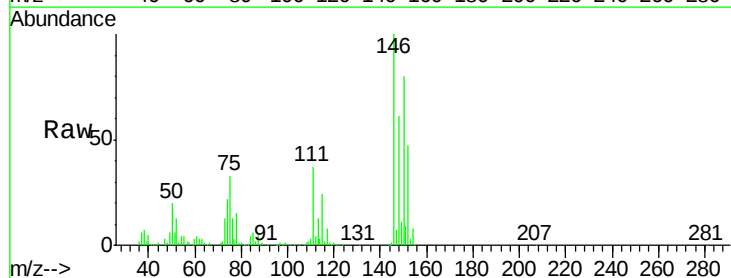
Manual Integrations
 APPROVED

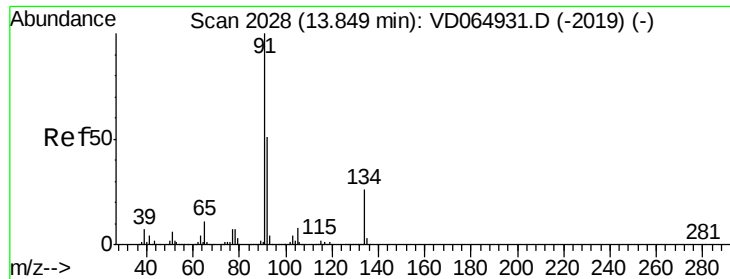
MMDadoda
 1/29/2020 12:55:54 PM



#88
 1,4-Dichlorobenzene
 Concen: 20.730 ug/l
 RT: 13.60 min Scan# 1986
 Delta R.T. 0.00 min
 Lab File: VD064975.D
 Acq: 28 Jan 2020 12:04

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	192267		
111	37.7	18.2	54.6	
148	62.7	32.0	96.0	





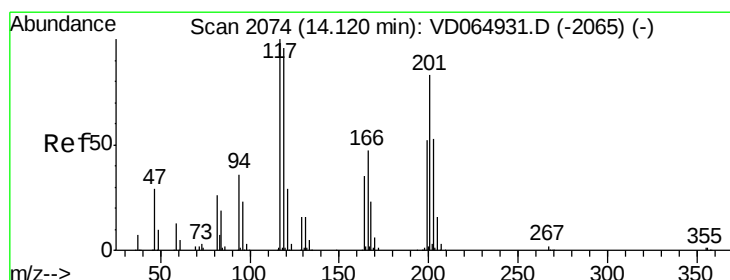
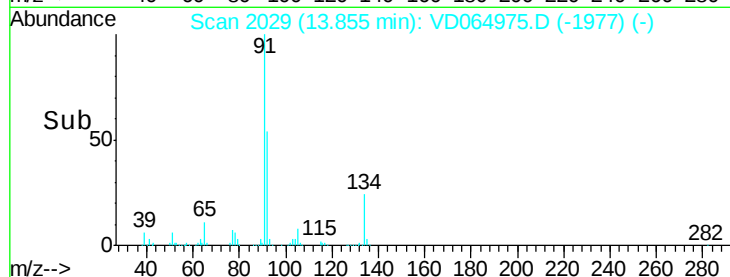
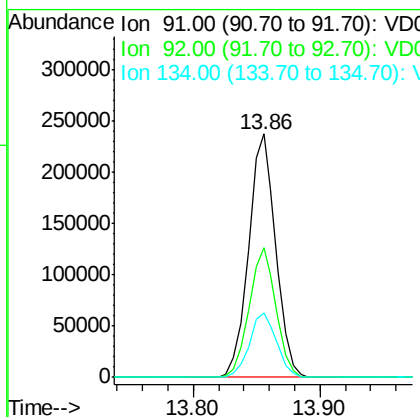
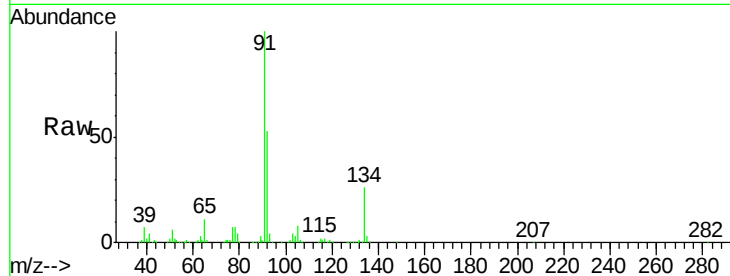
#89
n-Butylbenzene
Concen: 21.031 ug/l
RT: 13.86 min Scan# 2029
Delta R.T. 0.01 min
Lab File: VD064975.D
Acq: 28 Jan 2020 12:04

Instrument :
MSVOA_D
ClientSampleId :
VD0128SBS01

Tot Ion	Ratio	Lower	Upper
91	100		
92	52.7	26.4	79.0
134	26.8	13.3	39.9

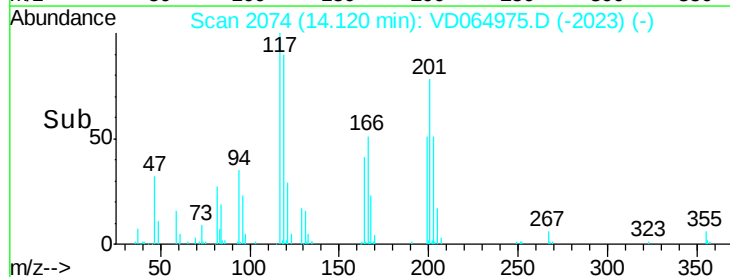
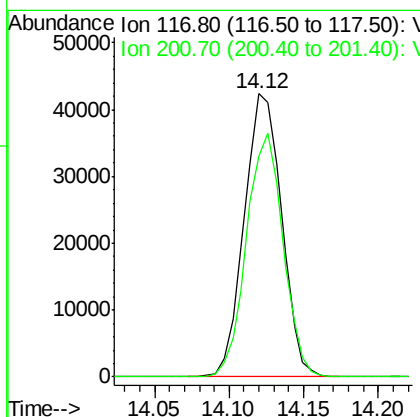
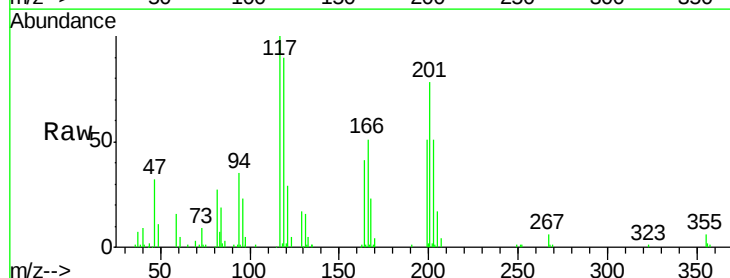
Manual Integrations
APPROVED

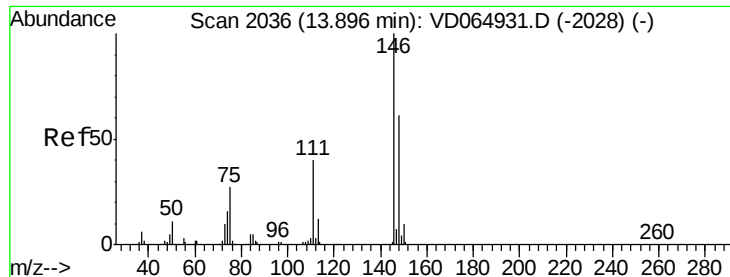
MMDadoda
1/29/2020 12:55:54 PM



#90
Hexachloroethane
Concen: 20.763 ug/l
RT: 14.12 min Scan# 2074
Delta R.T. 0.00 min
Lab File: VD064975.D
Acq: 28 Jan 2020 12:04

Tgt Ion	Ratio	Lower	Upper
117	100		
201	83.9	41.1	123.3





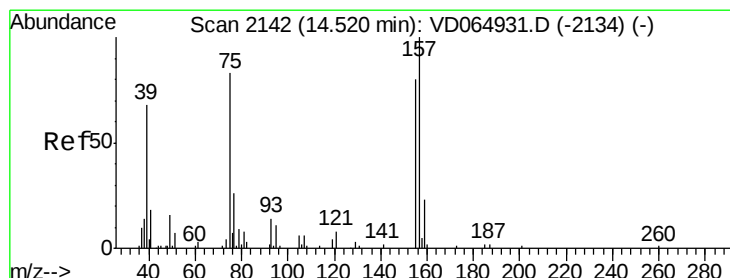
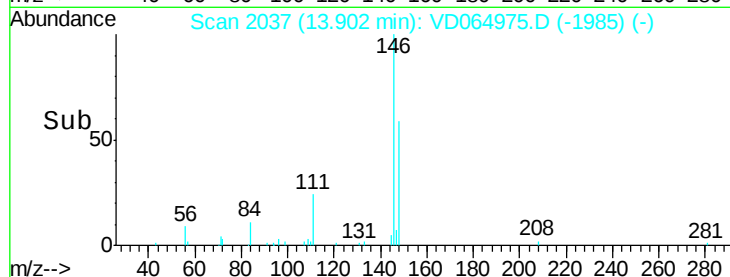
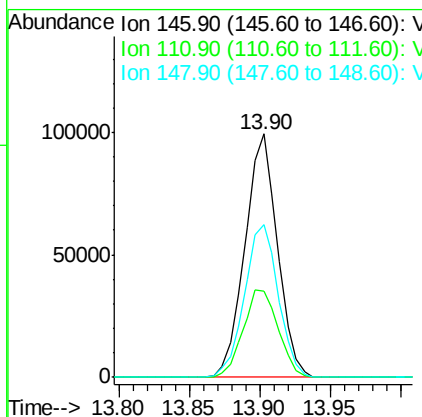
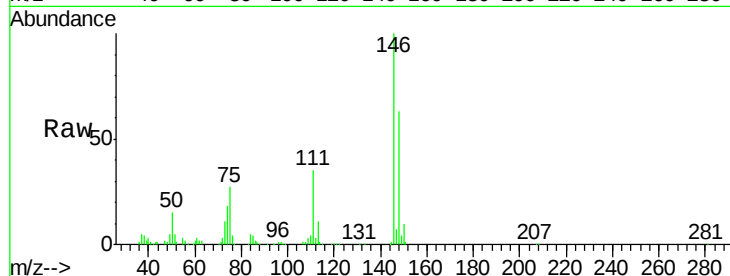
#91
 1,2-Dichlorobenzene
 Concen: 20.269 ug/l
 RT: 13.90 min Scan# 2037
 Delta R.T. 0.01 min
 Lab File: VD064975.D
 Acq: 28 Jan 2020 12:04

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0128SBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.8	19.4	58.2
148	65.2	31.6	95.0

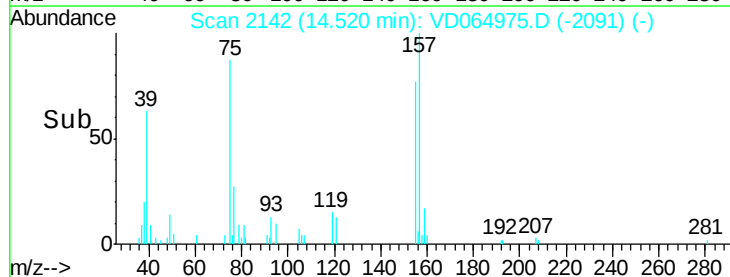
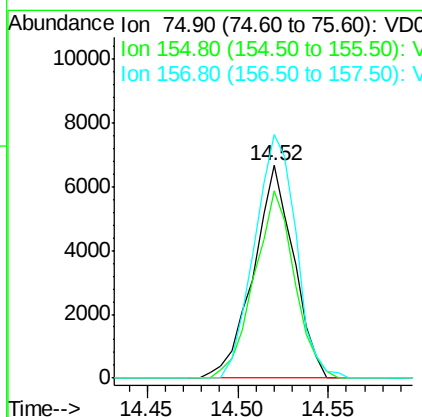
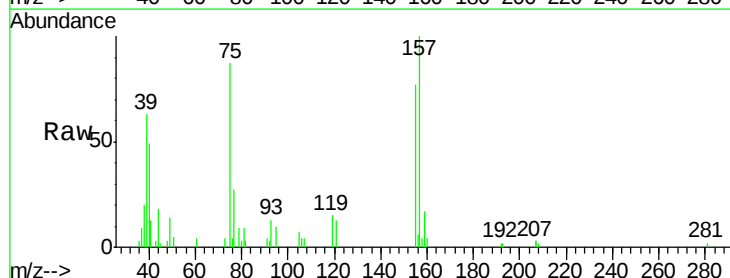
Manual Integrations
 APPROVED

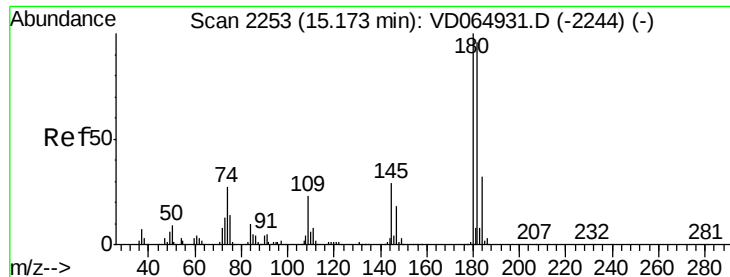
MMDadoda
 1/29/2020 12:55:54 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 19.343 ug/l
 RT: 14.52 min Scan# 2142
 Delta R.T. 0.00 min
 Lab File: VD064975.D
 Acq: 28 Jan 2020 12:04

Tgt Ion	Ratio	Lower	Upper
75	100		
155	87.9	44.9	134.7
157	117.3	58.9	176.6





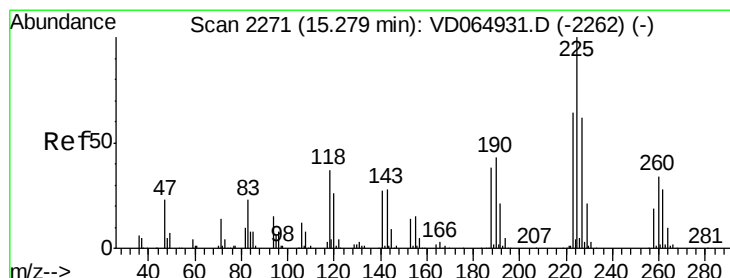
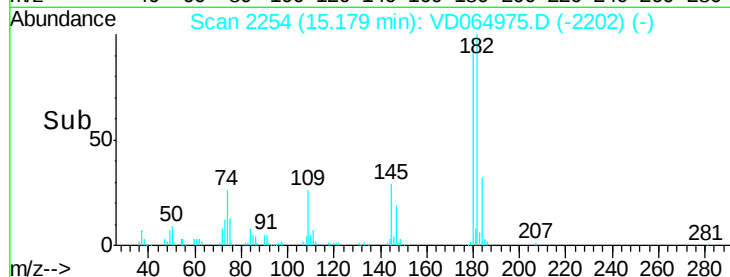
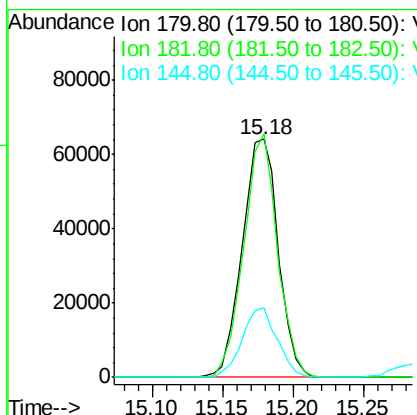
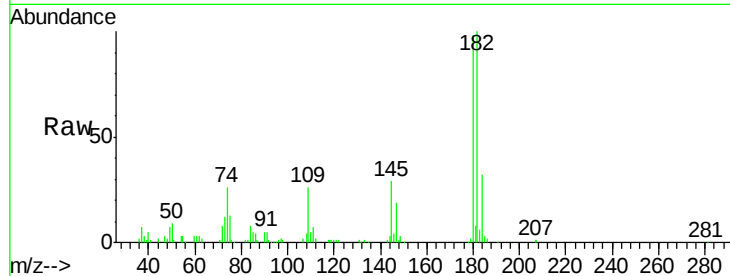
#93
 1,2,4-Trichlorobenzene
 Concen: 20.910 ug/l
 RT: 15.18 min Scan# 2254
 Delta R.T. 0.01 min
 Lab File: VD064975.D
 Acq: 28 Jan 2020 12:04

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0128SBS01

Tot Ion	Ratio	Resp	Lower	Upper
180	100			
182	95.5	47.1	141.4	
145	28.4	14.1	42.3	

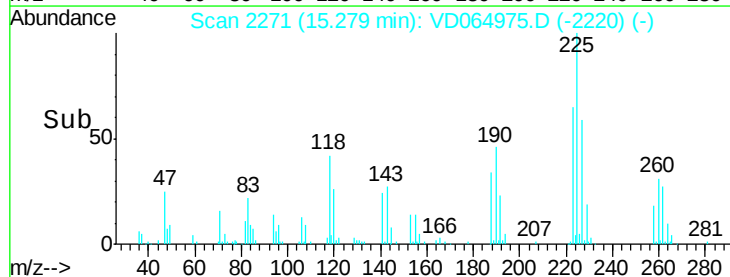
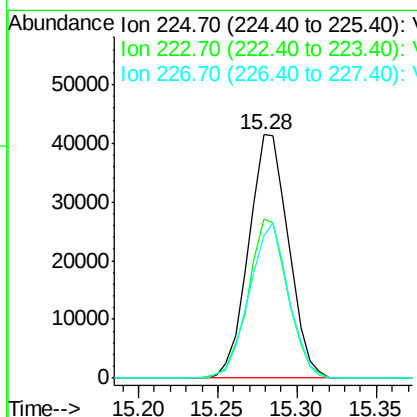
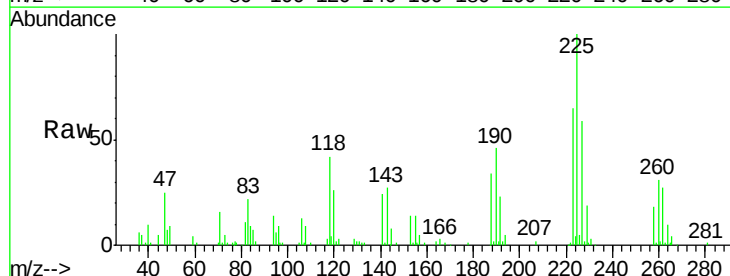
Manual Integrations
 APPROVED

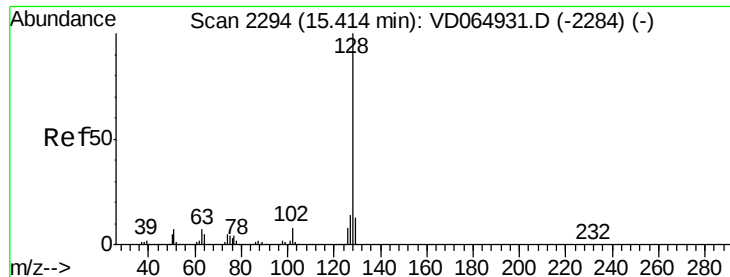
MMDadoda
 1/29/2020 12:55:54 PM



#94
 Hexachlorobutadiene
 Concen: 20.832 ug/l
 RT: 15.28 min Scan# 2271
 Delta R.T. 0.00 min
 Lab File: VD064975.D
 Acq: 28 Jan 2020 12:04

Tgt Ion	Ratio	Resp	Lower	Upper
225	100			
223	64.8	32.4	97.2	
227	62.9	31.9	95.9	





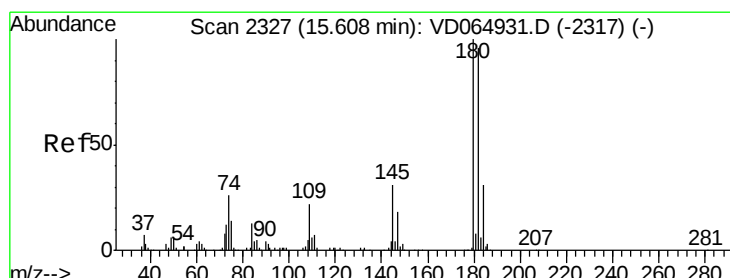
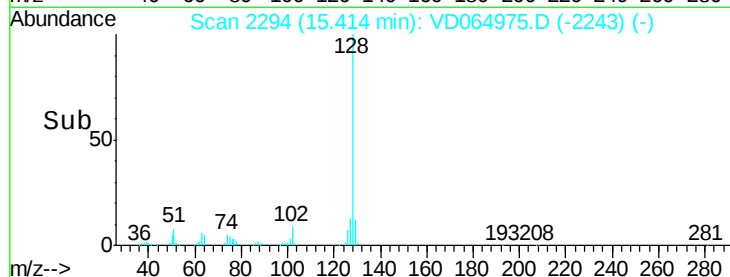
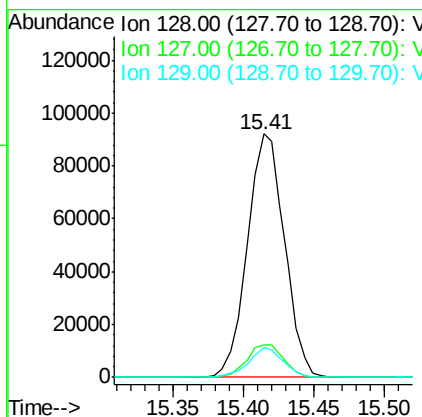
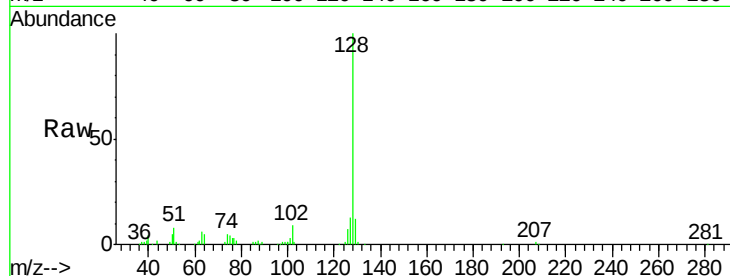
#95
Naphthalene
Concen: 19.195 ug/l
RT: 15.41 min Scan# 2294
Delta R.T. 0.00 min
Lab File: VD064975.D
Acq: 28 Jan 2020 12:04

Instrument :
MSVOA_D
ClientSampleId :
VD0128SBS01

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.4	10.6	15.8
129	11.4	9.3	13.9

Manual Integrations
APPROVED

MMDadoda
1/29/2020 12:55:54 PM



#96
1,2,3-Trichlorobenzene
Concen: 20.122 ug/l
RT: 15.61 min Scan# 2327
Delta R.T. 0.00 min
Lab File: VD064975.D
Acq: 28 Jan 2020 12:04

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.2	47.3	141.8
145	29.2	14.6	43.8

