

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL120418\
 Data File : VL032874.D
 Acq On : 4 Dec 2018 9:53
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

MMDadoda
 12/10/2018 12:59:31 PM

Quant Time: Dec 05 06:04:27 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111418AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Nov 14 2018
 QLast Update : Wed Nov 14 07:00:23 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	1305755	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	3511821	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	3703590m	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.59	95	2506580	9.05	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	90.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	1646165	8.770	ppbv	100
3) Chlorodifluoromethane	3.02	51	1015653	9.811	ppbv	99
4) Chloromethane	3.18	50	541843	9.439	ppbv	99
5) Vinyl Chloride	3.30	62	575616	9.464	ppbv	95
6) Bromomethane	3.52	94	387186	10.406	ppbv	93
7) Chloroethane	3.61	64	227524	10.379	ppbv	97
8) Dichlorotetrafluoroethane	3.23	85	1451899	9.816	ppbv	98
9) Propene	3.04	41	422359	10.195	ppbv	100
10) Heptane	8.25	43	1696553	10.727	ppbv	99
11) Trichlorofluoromethane	4.01	101	2060245	11.647	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.56	101	1677474	11.610	ppbv	96
13) Ethanol	3.65	45	102955	7.587	ppbv	99
14) Bromoethene	3.80	108	499593	10.423	ppbv	100
15) Acetone	3.91	43	1043186	8.748	ppbv	100
16) 1,3-Butadiene	3.37	39	460514	9.972	ppbv	88
17) tert-Butyl alcohol	4.36	59	442353	11.828	ppbv	100
18) 1,1-Dichloroethene	4.36	96	775601	10.917	ppbv	98
19) Isopropyl Alcohol	4.03	45	914761	11.515	ppbv	99
20) Methylene Chloride	4.42	84	669452	10.844	ppbv	98
21) Allyl Chloride	4.48	41	1197629	11.951	ppbv	99
22) trans-1,2-Dichloroethene	4.97	96	774425	11.163	ppbv	99
23) Vinyl Acetate	5.16	43	2360373	10.859	ppbv	99
24) 1,1-Dichloroethane	5.10	63	1826038	10.567	ppbv	100
25) Ethyl Acetate	5.78	43	2869377	10.324	ppbv	99
26) Hexane	5.79	57	1312115	10.606	ppbv	99
27) Carbon Disulfide	4.63	76	1964813	12.525	ppbv	99
28) Methyl tert-Butyl Ether	5.12	73	2370485	12.015	ppbv	99
29) Chloroform	5.86	83	2216567	10.052	ppbv	98
30) Cyclohexane	7.25	84	1219116	11.266	ppbv	97
31) cis-1,2-Dichloroethene	5.65	61	1355032	10.894	ppbv	99
32) 1,1,1-Trichloroethane	6.63	97	2431546	10.060	ppbv	99
34) 2-Butanone	5.34	43	1826106	10.026	ppbv	99
35) Carbon Tetrachloride	7.15	117	2621385	9.285	ppbv	99
36) Benzene	7.02	78	2823464	10.096	ppbv	99
37) 1,2-Dichloroethane	6.42	62	1789518	9.506	ppbv	99
38) Trichloroethene	7.97	130	1184227	10.464	ppbv	98
39) 1,2-Dichloropropane	7.74	63	1068215	10.026	ppbv	98
40) 1,4-Dioxane	7.97	88	368326	9.679	ppbv	97
41) Tetrahydrofuran	6.16	42	1031572	9.873	ppbv	99
42) Bromodichloromethane	7.93	83	2526222	9.899	ppbv	99
43) Methyl Methacrylate	8.15	69	1115168	10.681	ppbv	98

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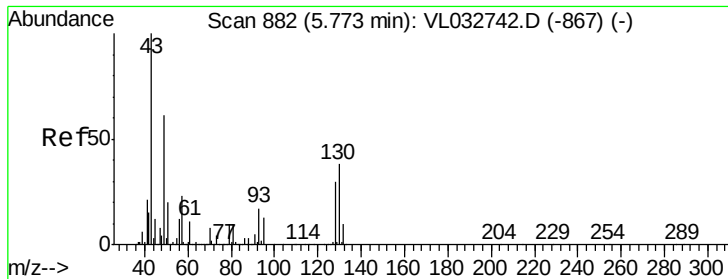
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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111418AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Nov 14 07:00:23 2018
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.00	57	4749797	10.164	ppbv	99
45) t-1,3-Dichloropropene	9.43	75	1565793	11.177	ppbv	98
46) cis-1,3-Dichloropropene	8.85	75	1945614	11.495	ppbv	94
47) 1,1,2-Trichloroethane	9.62	97	1284115	10.192	ppbv	95
48) Dibromochloromethane	10.46	129	2236245	10.443	ppbv	100
49) Bromoform	13.21	173	2002208	11.322	ppbv	100
50) 4-Methyl-2-Pentanone	8.88	43	2943253	10.346	ppbv	99
51) 2-Hexanone	10.28	43	2060544	11.242	ppbv #	99
52) Tetrachloroethene	11.38	164	1066617	10.964	ppbv	99
53) Toluene	9.96	91	3335596	11.433	ppbv	100
54) 1,2-Dibromoethane	10.77	107	1873464	10.519	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.29	131	1613201	9.339	ppbv	95
57) Chlorobenzene	12.31	112	2587036	9.125	ppbv	98
58) Ethyl Benzene	12.88	91	4556774	10.223	ppbv	97
59) m/p-Xylene	13.14	91	8278509m	20.864	ppbv	
60) o-Xylene	13.86	91	4027524	10.095	ppbv	99
61) Styrene	13.70	104	2787699	10.734	ppbv	99
62) Isopropylbenzene	14.84	105	5407606	10.028	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.85	83	2796346	8.991	ppbv	100
64) n-propylbenzene	15.74	120	1365533	9.627	ppbv	97
65) tert-Butylbenzene	16.92	119	4774571	9.877	ppbv	98
66) Benzyl Chloride	17.17	91	2683897	10.042	ppbv	99
67) sec-Butylbenzene	17.47	105	6602321	9.477	ppbv	99
69) p-Isopropyltoluene	17.83	119	5409609	9.766	ppbv	99
70) n-Butylbenzene	18.73	91	5284446	9.395	ppbv	100
71) 2-Chlorotoluene	15.63	91	3953651	9.831	ppbv	98
72) 4-Ethyltoluene	16.01	105	4621803	10.569	ppbv	99
73) 1,3,5-Trimethylbenzene	16.17	105	4394444	10.278	ppbv	100
74) 1,2,4-Trimethylbenzene	16.94	105	4181387	9.139	ppbv	95
75) 1,3-Dichlorobenzene	17.18	146	2350863	8.958	ppbv	99
76) 1,4-Dichlorobenzene	17.32	146	2305418	9.404	ppbv	99
77) 1,2-Dichlorobenzene	18.00	146	2275662	9.373	ppbv	100
78) Hexachloro-1,3-Butadiene	23.55	225	942894	7.196	ppbv	99
79) Naphthalene	22.42	128	2928665	9.744	ppbv	99
80) Naphthalene, 2-methyl-	25.12	142	825971	10.972	ppbv	97
81) 1,2,4-Trichlorobenzene	22.15	180	1616989	10.713	ppbv	99

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 882

Delta R.T. -0.00 min

Lab File: VL032874.D

Acq: 4 Dec 2018 9:53

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 49 Resp: 1305755

Ion Ratio Lower Upper

49 100

128 52.9 24.9 74.6

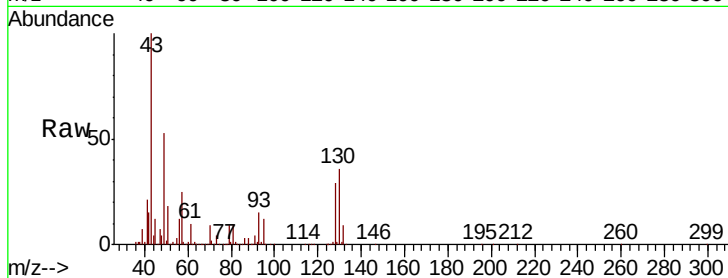
130 67.8 31.4 94.2

Manual Integrations

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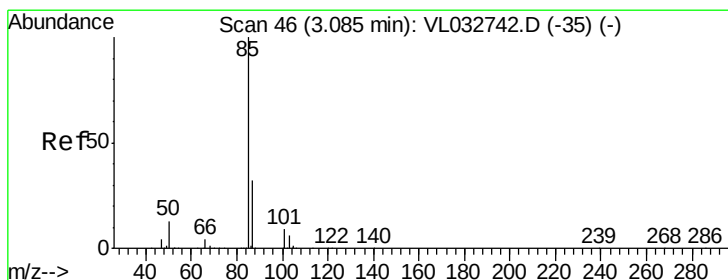
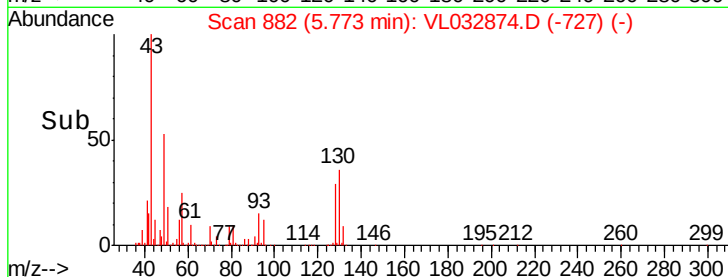
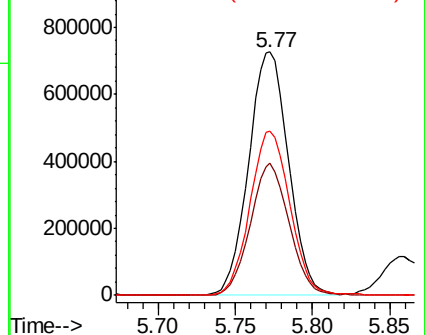
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 8.770 ppbv

RT: 3.08 min Scan# 45

Delta R.T. -0.00 min

Lab File: VL032874.D

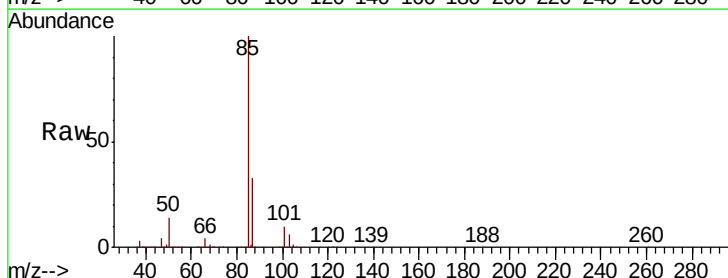
Acq: 4 Dec 2018 9:53

Tgt Ion: 85 Resp: 1646165

Ion Ratio Lower Upper

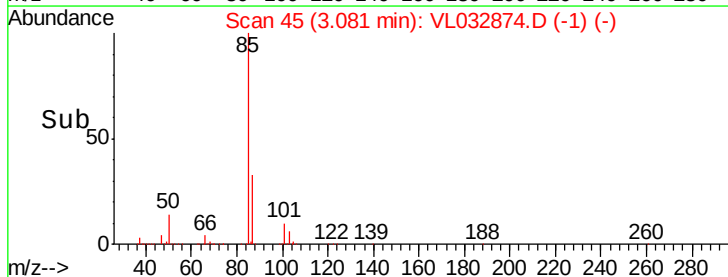
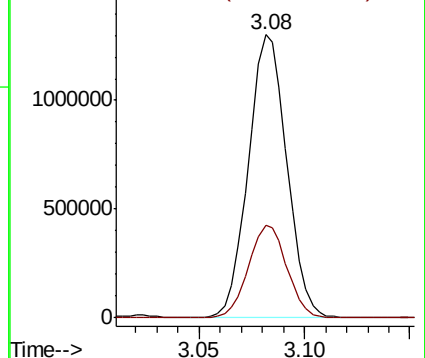
85 100

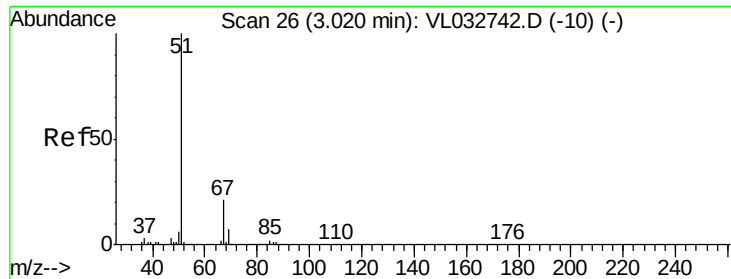
87 32.7 26.0 39.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 9.811 ppbv

RT: 3.02 min Scan# 26

Delta R.T. -0.00 min

Lab File: VL032874.D

Acq: 4 Dec 2018 9:53

Tot Ion: 51 Resp: 1015653

Ion Ratio Lower Upper

51 100

67 20.3 16.1 24.1

Instrument :

MSVOA_L

ClientSampleId :

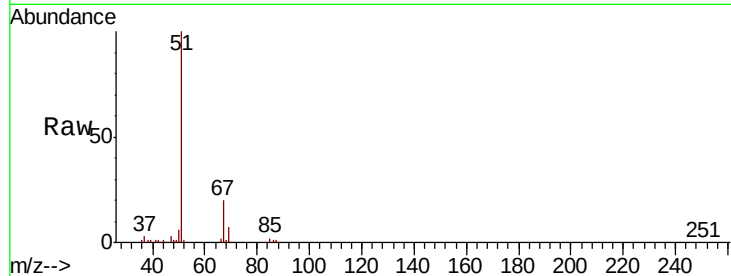
VSTDCCC010

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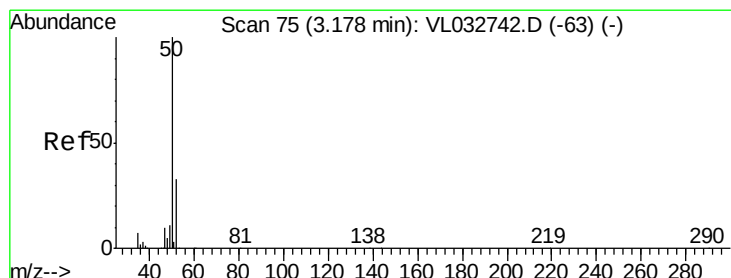
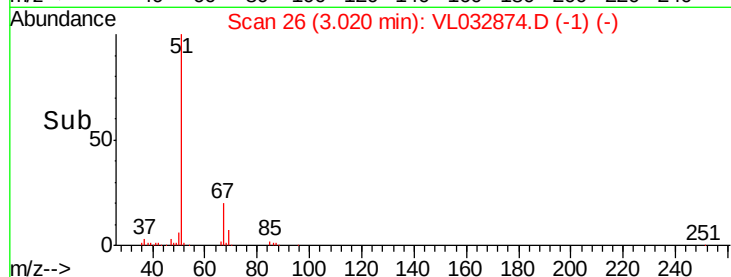
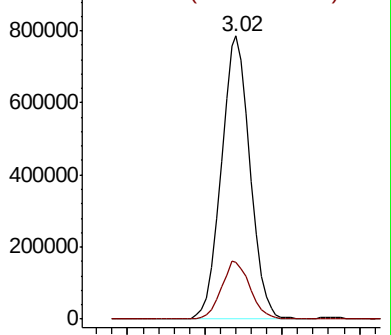
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 9.439 ppbv

RT: 3.18 min Scan# 75

Delta R.T. -0.00 min

Lab File: VL032874.D

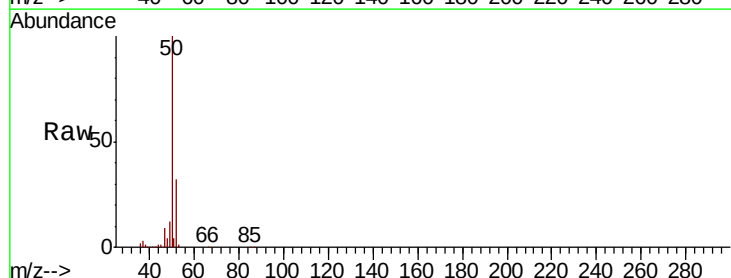
Acq: 4 Dec 2018 9:53

Tgt Ion: 50 Resp: 541843

Ion Ratio Lower Upper

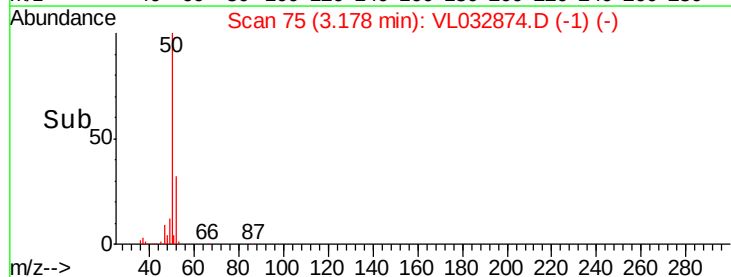
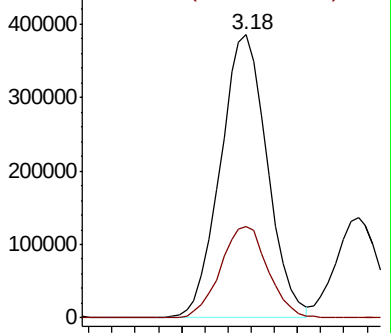
50 100

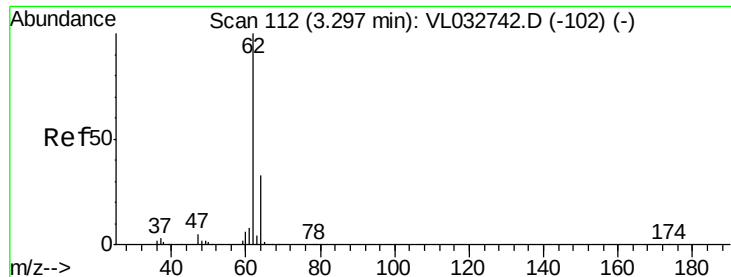
52 32.5 26.6 40.0



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 9.464 ppbv

RT: 3.30 min Scan# 112

Delta R.T. -0.00 min

Lab File: VL032874.D

Acq: 4 Dec 2018 9:53

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 62 Resp: 575616

Ion Ratio Lower Upper

62 100

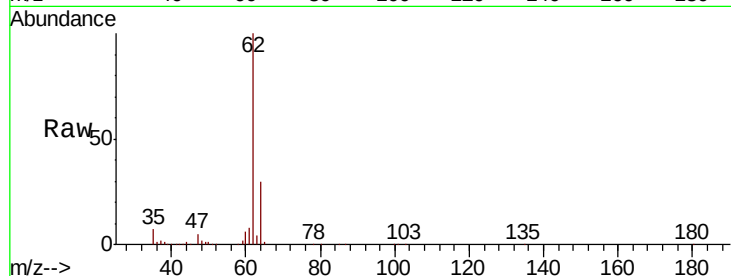
64 29.7 26.2 39.4

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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0

3.30

400000

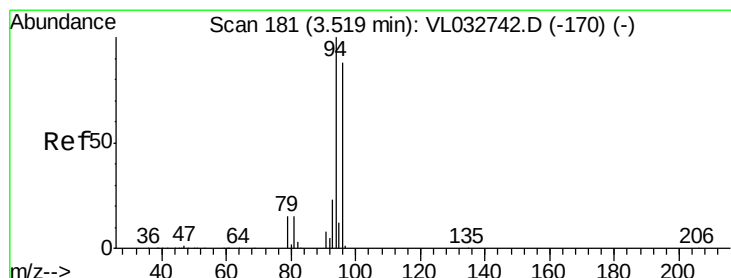
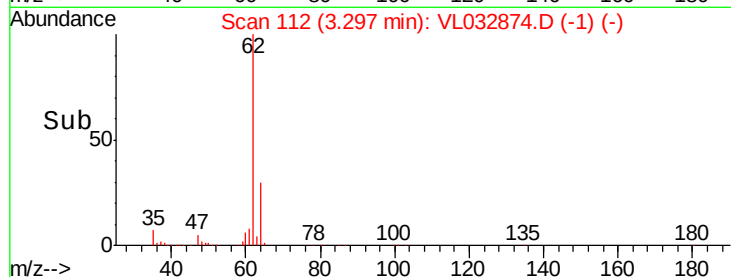
300000

200000

100000

0

Time-->



#6

Bromomethane

Concen: 10.406 ppbv

RT: 3.52 min Scan# 182

Delta R.T. 0.00 min

Lab File: VL032874.D

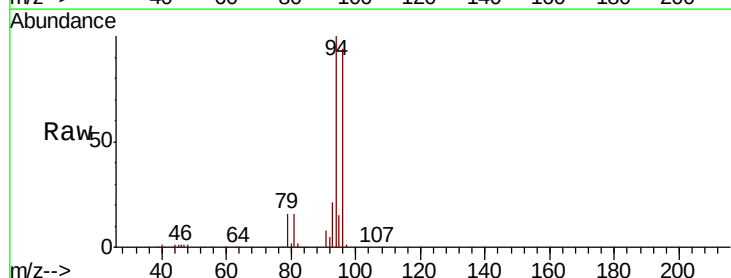
Acq: 4 Dec 2018 9:53

Tgt Ion: 94 Resp: 387186

Ion Ratio Lower Upper

94 100

96 94.3 70.2 105.2



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0

3.52

300000

250000

200000

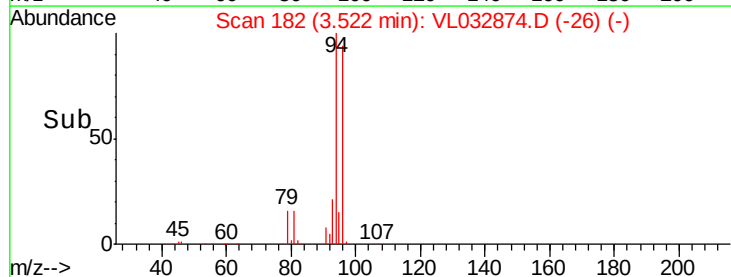
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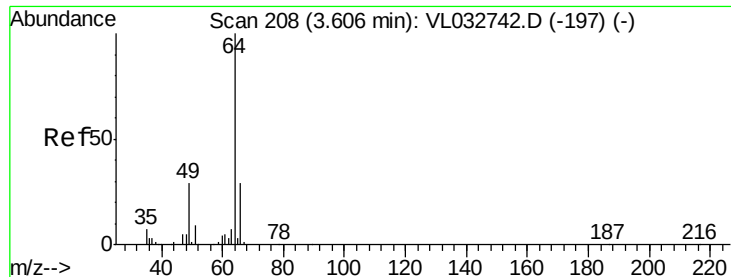
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50000

0

Time-->





#7

Chloroethane

Concen: 10.379 ppbv

RT: 3.61 min Scan# 209

Delta R.T. 0.00 min

Lab File: VL032874.D

Acq: 4 Dec 2018 9:53

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 64 Resp: 227524

Ion Ratio Lower Upper

64 100

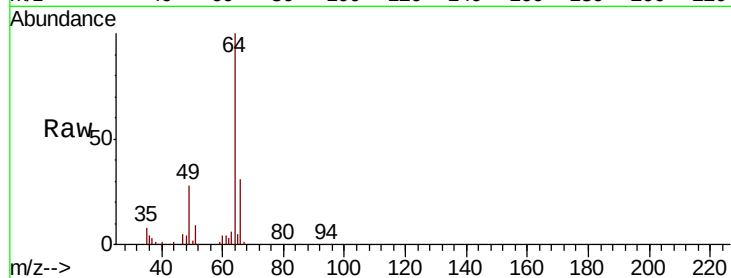
66 30.8 23.2 34.8

Manual Integrations

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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0

3.61

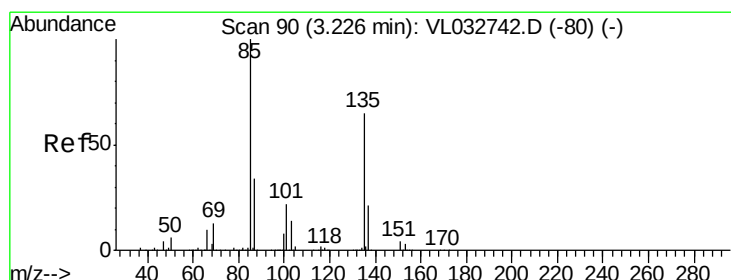
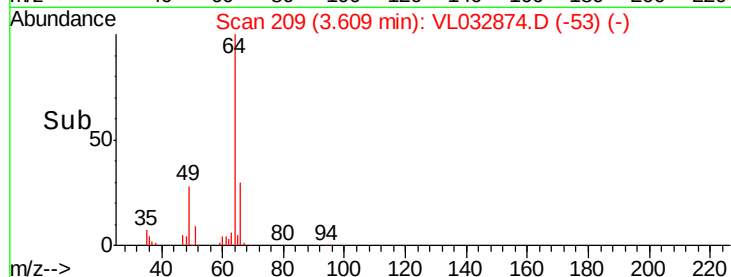
150000

100000

50000

0

Time-->



#8

Dichlorotetrafluoroethane

Concen: 9.816 ppbv

RT: 3.23 min Scan# 90

Delta R.T. -0.00 min

Lab File: VL032874.D

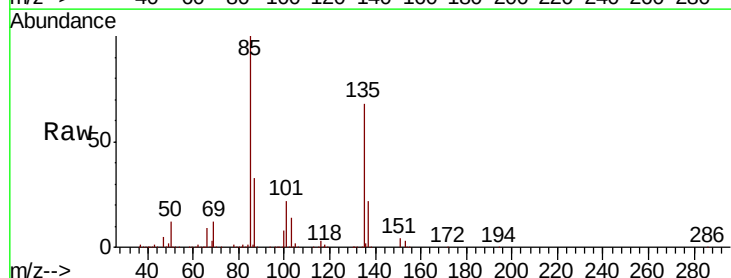
Acq: 4 Dec 2018 9:53

Tgt Ion: 85 Resp: 1451899

Ion Ratio Lower Upper

85 100

135 69.1 53.8 80.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

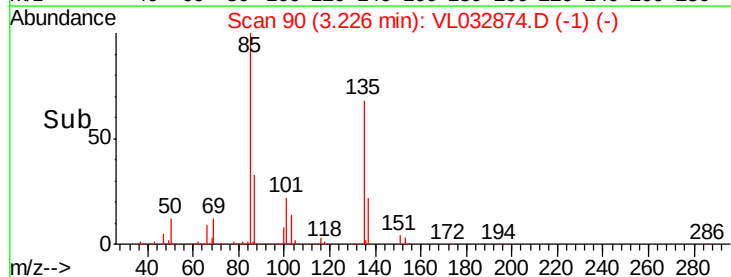
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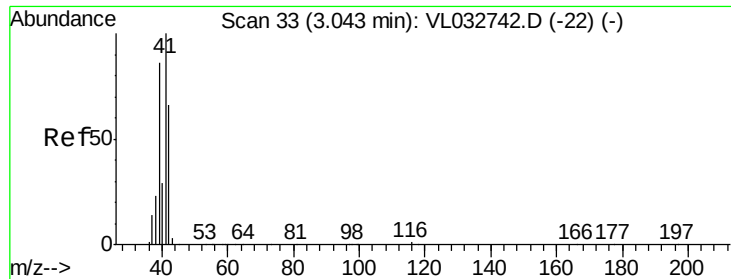
1000000

500000

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Time-->





#9

Propene

Concen: 10.195 ppbv

RT: 3.04 min Scan# 33

Delta R.T. -0.00 min

Lab File: VL032874.D

Acq: 4 Dec 2018 9:53

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 41 Resp: 422359

Ion Ratio Lower Upper

41 100

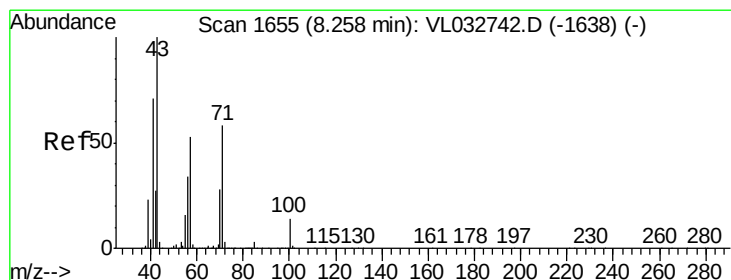
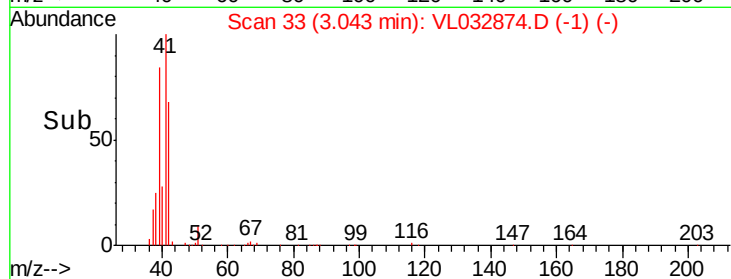
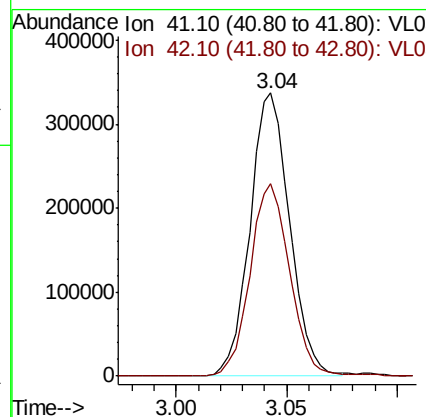
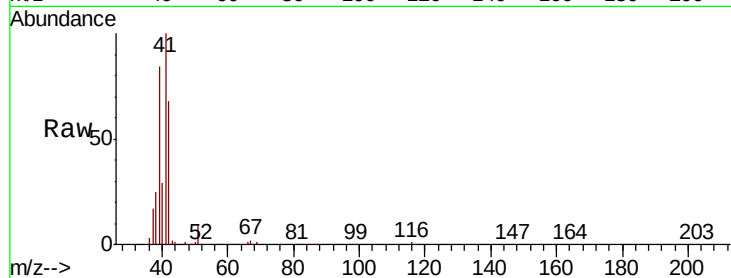
42 68.7 55.0 82.6

Manual Integrations

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#10

Heptane

Concen: 10.727 ppbv

RT: 8.25 min Scan# 1654

Delta R.T. -0.00 min

Lab File: VL032874.D

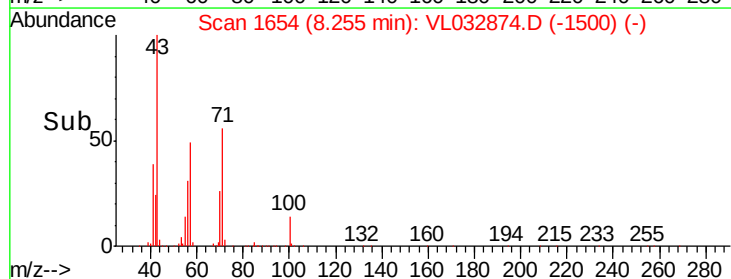
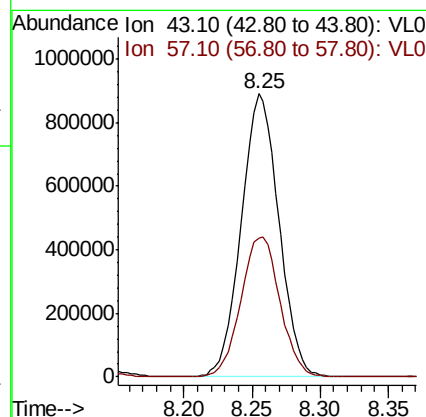
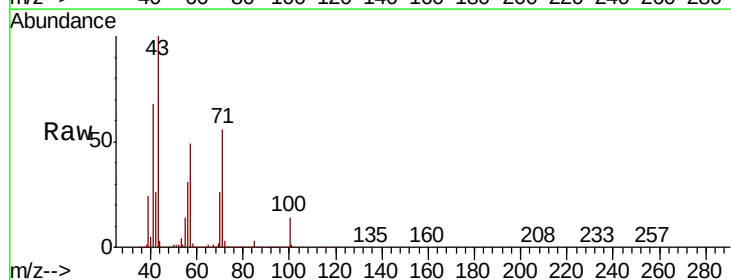
Acq: 4 Dec 2018 9:53

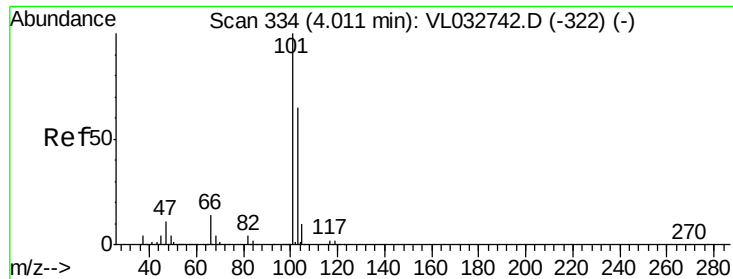
Tgt Ion: 43 Resp: 1696553

Ion Ratio Lower Upper

43 100

57 51.6 41.8 62.8





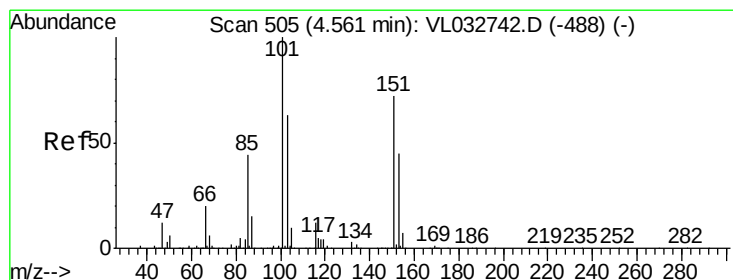
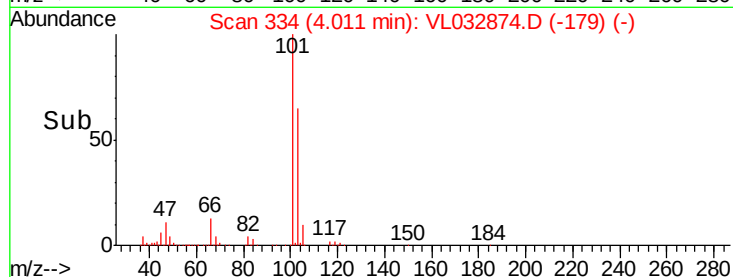
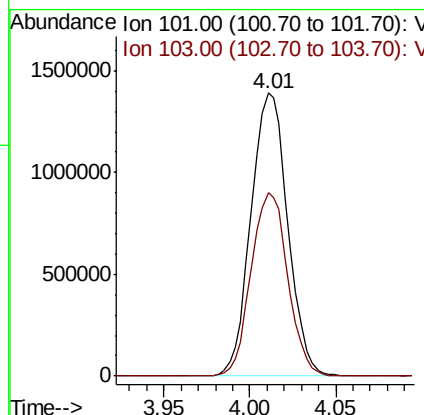
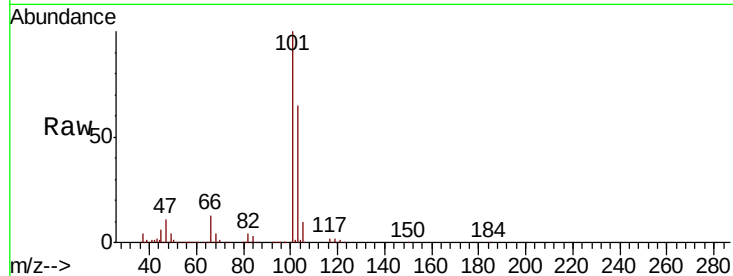
#11
 Trichlorofluoromethane
 Concen: 11.647 ppbv
 RT: 4.01 min Scan# 334
 Delta R.T. -0.00 min
 Lab File: VL032874.D
 Acq: 4 Dec 2018 9:53

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion:101 Resp: 2060245
 Ion Ratio Lower Upper
 101 100
 103 64.8 51.6 77.4

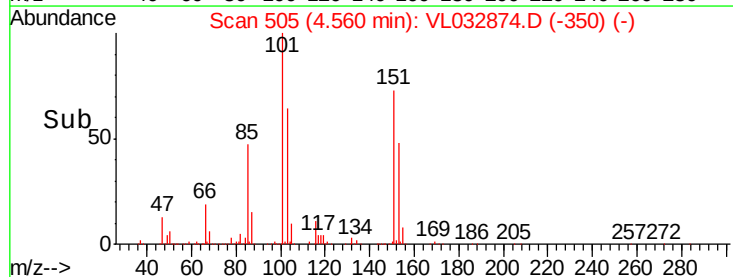
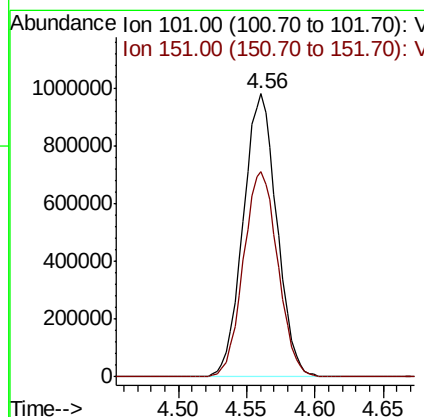
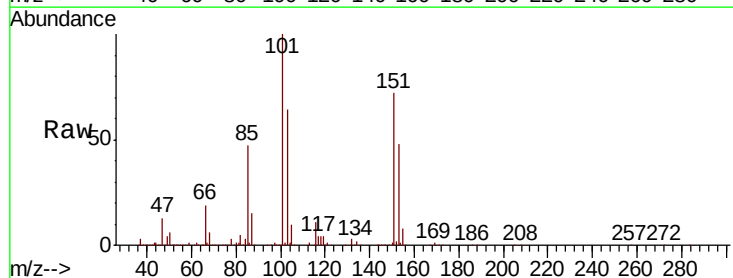
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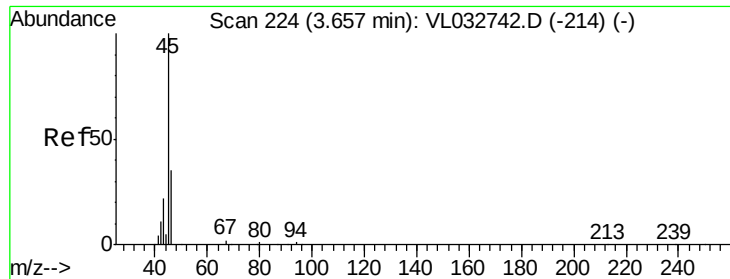
MMDadoda
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#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 11.610 ppbv
 RT: 4.56 min Scan# 505
 Delta R.T. -0.00 min
 Lab File: VL032874.D
 Acq: 4 Dec 2018 9:53

Tgt Ion:101 Resp: 1677474
 Ion Ratio Lower Upper
 101 100
 151 74.3 56.7 85.1





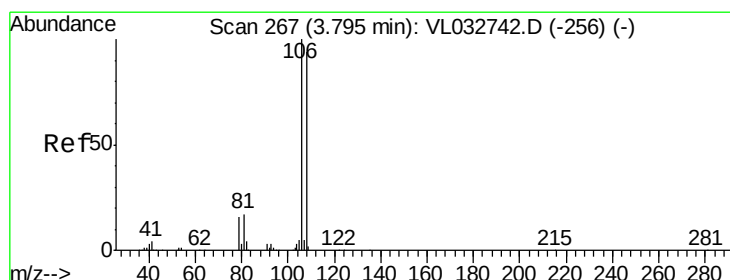
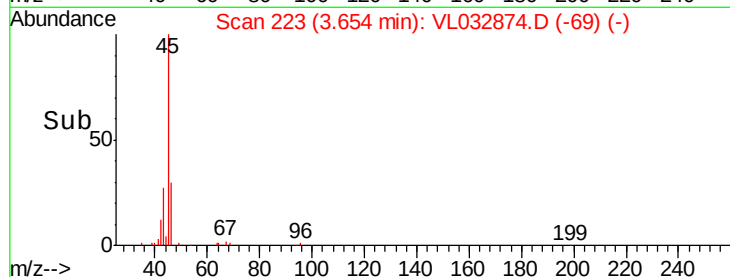
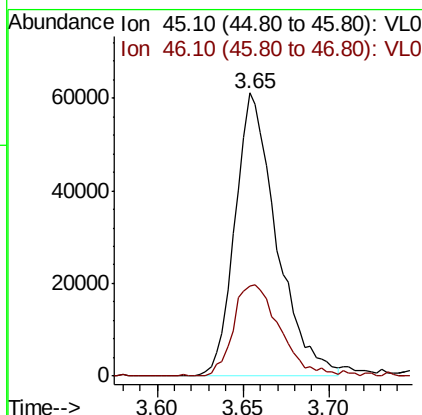
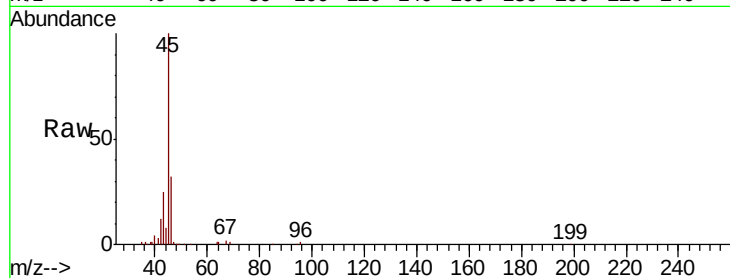
#13
Ethanol
Concen: 7.587 ppbv
RT: 3.65 min Scan# 223
Delta R.T. -0.00 min
Lab File: VL032874.D
Acq: 4 Dec 2018 9:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	45.10 (44.80 to 45.80): VL0	Resp	102955
Ion Ratio	Lower	Upper	
45	100		
46	37.0	14.5	57.9

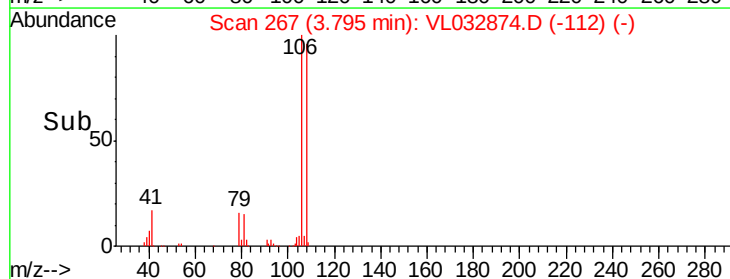
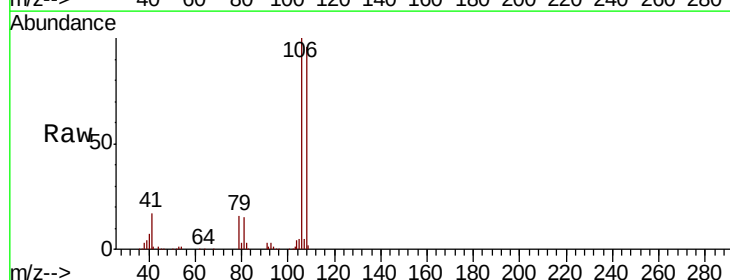
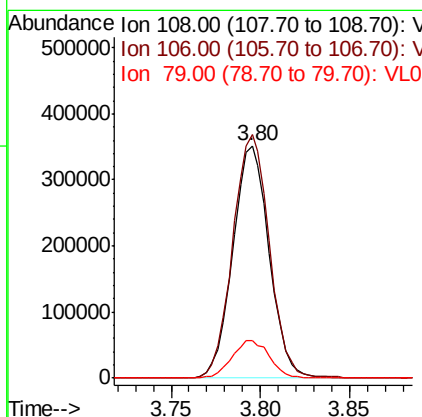
Manual Integrations
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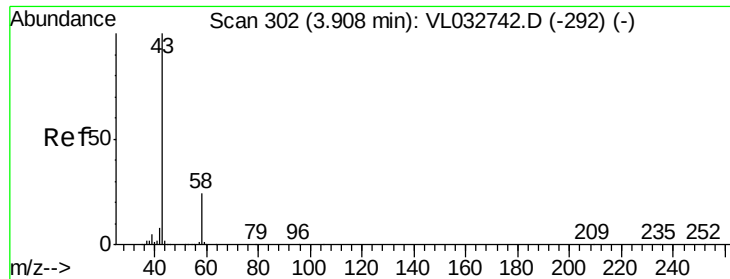
MMDadoda
12/10/2018 12:59:31 PM



#14
Bromoethene
Concen: 10.423 ppbv
RT: 3.80 min Scan# 267
Delta R.T. -0.00 min
Lab File: VL032874.D
Acq: 4 Dec 2018 9:53

Tgt Ion	108.00 (107.70 to 108.70): V	Resp	499593
Ion Ratio	Lower	Upper	
108	100		
106	105.8	84.9	127.3
79	16.9	14.2	21.4





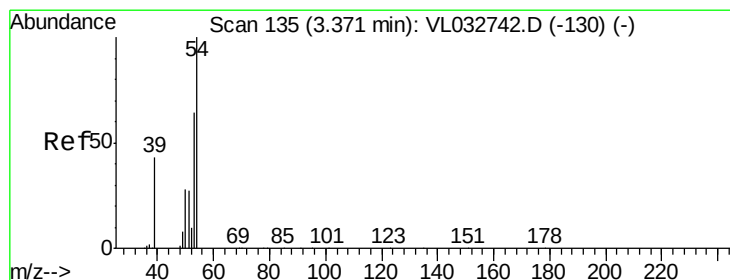
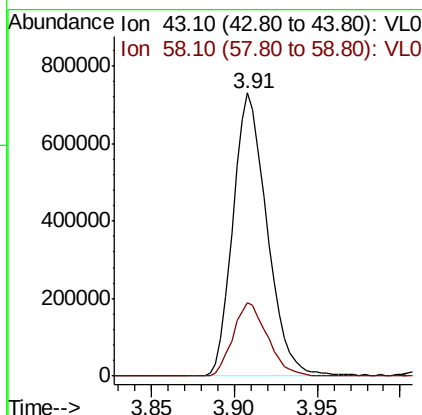
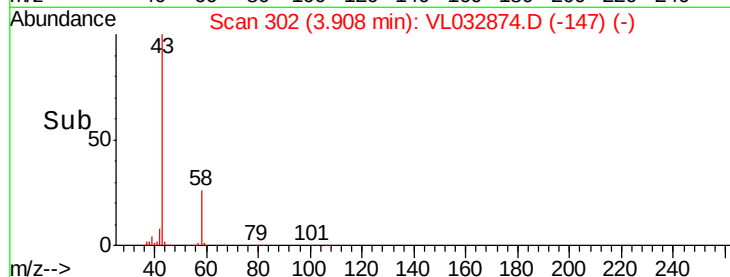
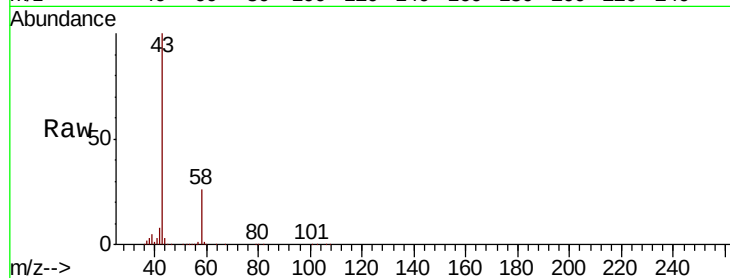
#15
Acetone
Concen: 8.748 ppbv
RT: 3.91 min Scan# 302
Delta R.T. -0.00 min
Lab File: VL032874.D
Acq: 4 Dec 2018 9:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 43 Resp: 1043186
Ion Ratio Lower Upper
43 100
58 26.5 21.1 31.7

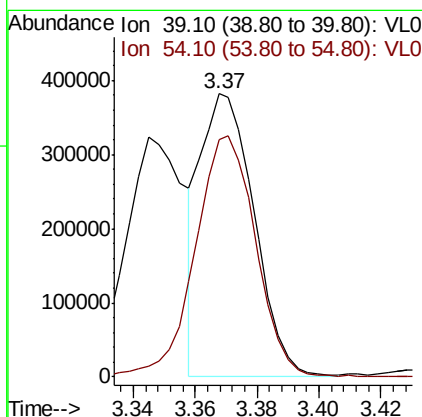
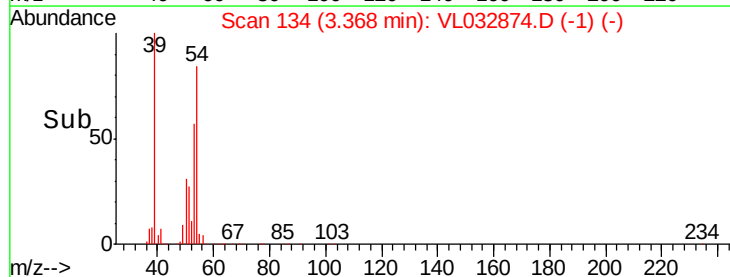
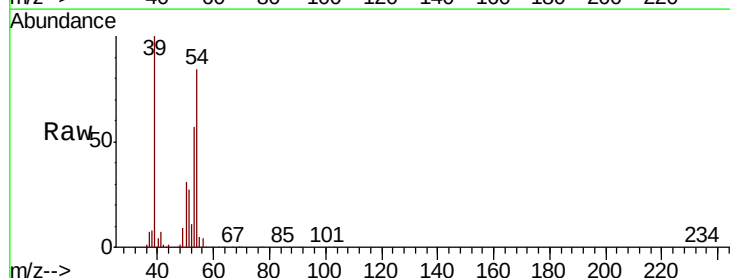
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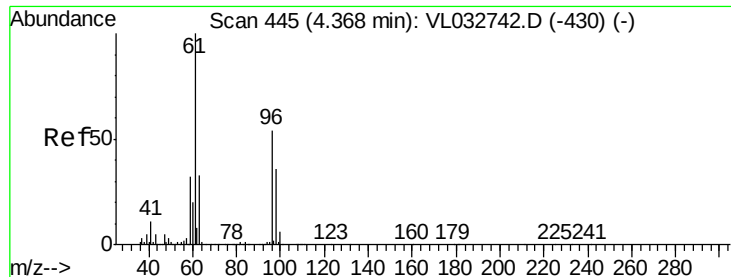
MMDadoda
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#16
1,3-Butadiene
Concen: 9.972 ppbv
RT: 3.37 min Scan# 134
Delta R.T. -0.00 min
Lab File: VL032874.D
Acq: 4 Dec 2018 9:53

Tgt Ion: 39 Resp: 460514
Ion Ratio Lower Upper
39 100
54 96.7 68.9 103.3





#17

tert-Butyl alcohol

Concen: 11.828 ppbv

RT: 4.36 min Scan# 444

Delta R.T. -0.00 min

Lab File: VL032874.D

Acq: 4 Dec 2018 9:53

Tot Ion: 59 Resp: 442353

Ion Ratio Lower Upper

59 100

57 9.9 7.8 11.8

Instrument :

MSVOA_L

ClientSampleId :

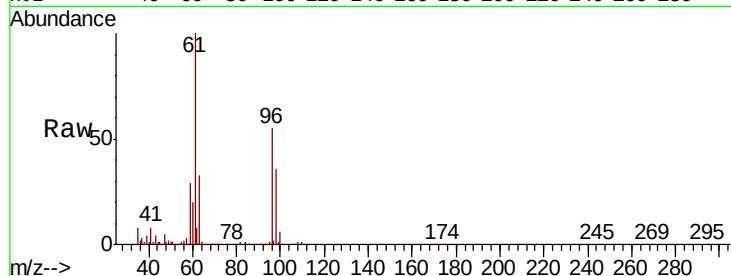
VSTDCCC010

Manual Integrations

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Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

250000

200000

150000

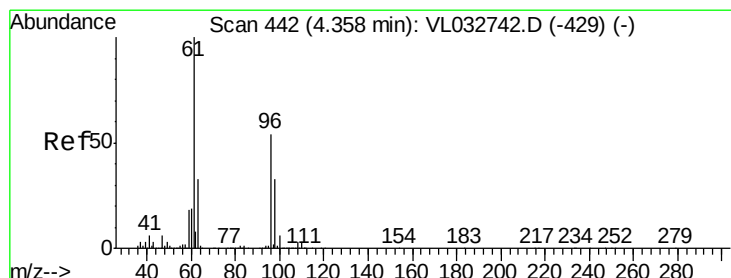
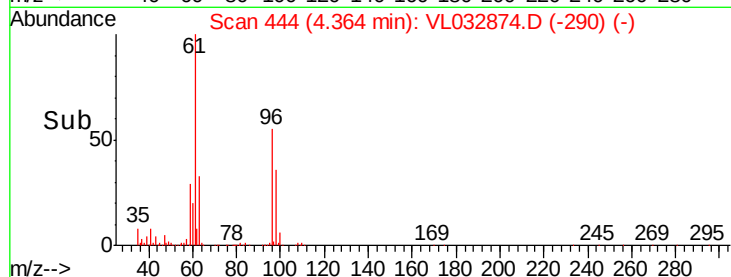
100000

50000

0

Time-->

4.30 4.35 4.40 4.45



#18

1,1-Dichloroethene

Concen: 10.917 ppbv

RT: 4.36 min Scan# 442

Delta R.T. -0.00 min

Lab File: VL032874.D

Acq: 4 Dec 2018 9:53

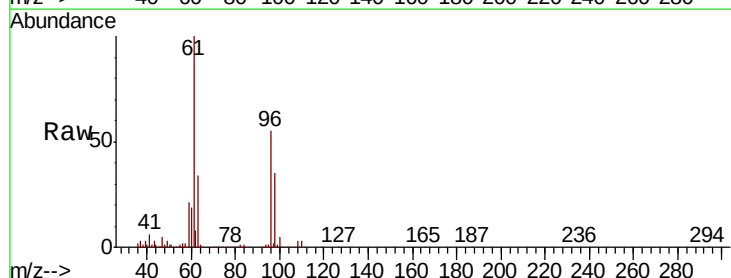
Tgt Ion: 96 Resp: 775601

Ion Ratio Lower Upper

96 100

61 183.5 148.5 222.7

98 64.7 48.6 72.8



Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

1200000

1000000

800000

600000

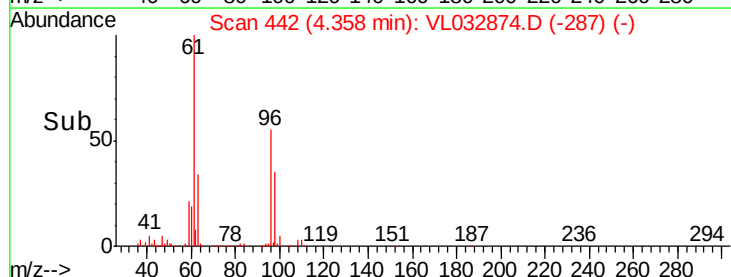
400000

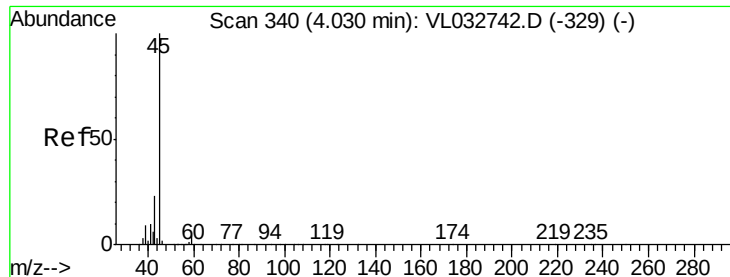
200000

0

Time-->

4.30 4.35 4.40





#19

Isopropyl Alcohol

Concen: 11.515 ppbv

RT: 4.03 min Scan# 340

Delta R.T. -0.00 min

Lab File: VL032874.D

Acq: 4 Dec 2018 9:53

Tot Ion: 45 Resp: 914761

Ion Ratio Lower Upper

45 100

58 2.0 1.4 2.0

Instrument :

MSVOA_L

ClientSampleId :

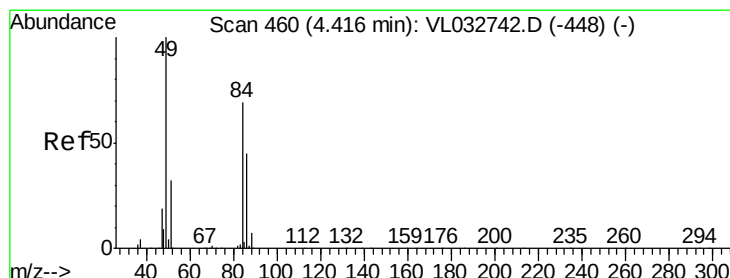
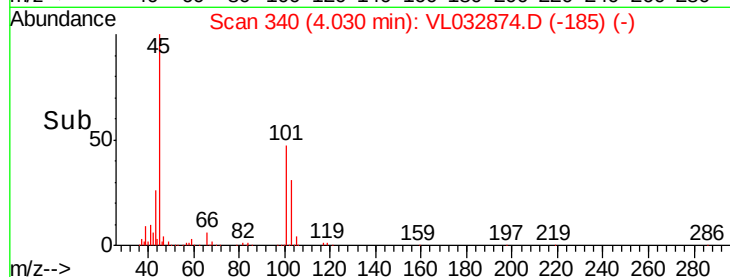
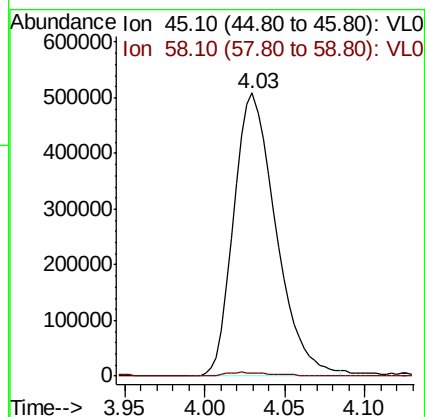
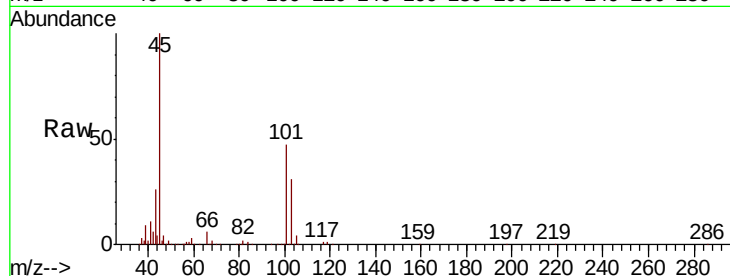
VSTDCCC010

Manual Integrations

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#20

Methylene Chloride

Concen: 10.844 ppbv

RT: 4.42 min Scan# 460

Delta R.T. -0.00 min

Lab File: VL032874.D

Acq: 4 Dec 2018 9:53

Tgt Ion: 84 Resp: 669452

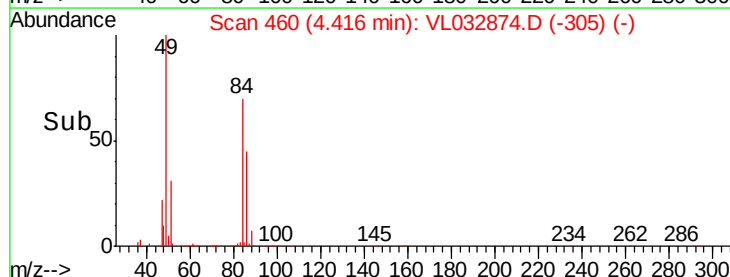
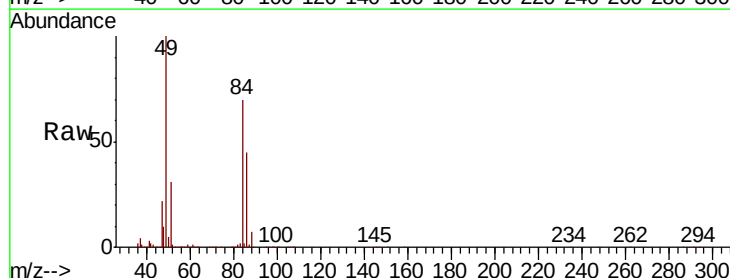
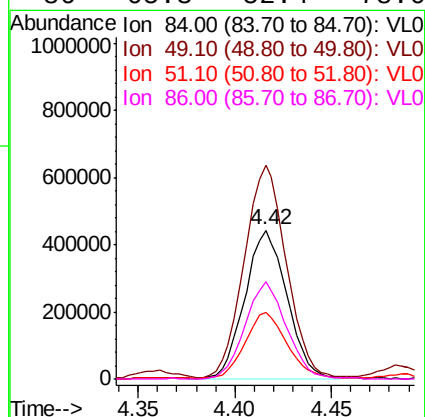
Ion Ratio Lower Upper

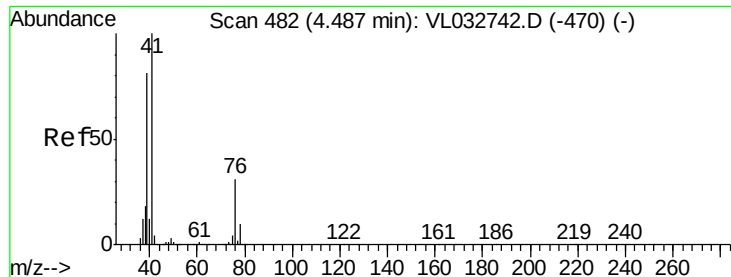
84 100

49 142.7 115.8 173.6

51 44.0 36.9 55.3

86 65.3 52.4 78.6





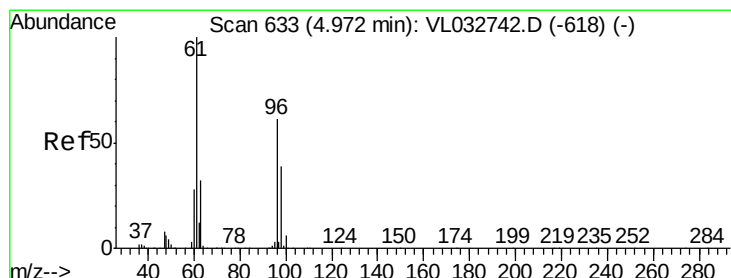
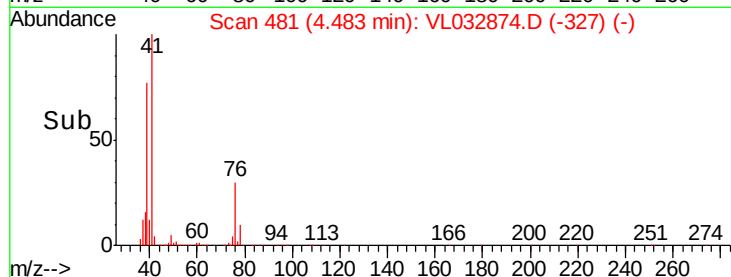
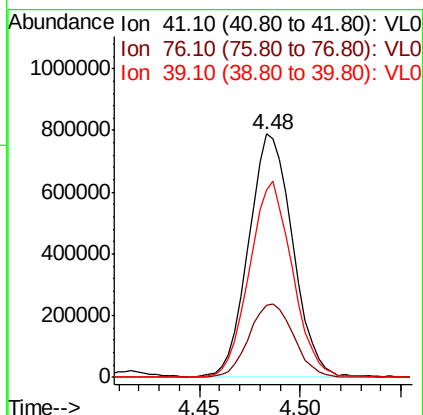
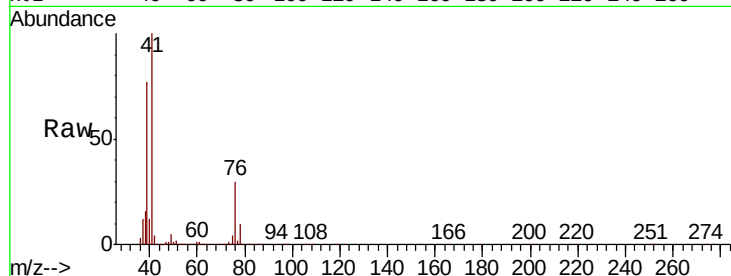
#21
Allvl Chloride
Concen: 11.951 ppbv
RT: 4.48 min Scan# 481
Delta R.T. -0.00 min
Lab File: VL032874.D
Acq: 4 Dec 2018 9:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
41	100		
76	31.1	24.4	36.6
39	78.9	63.5	95.3

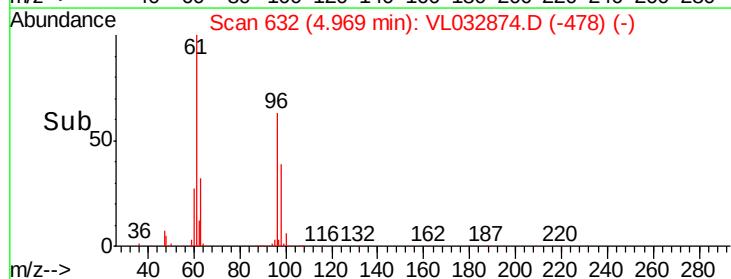
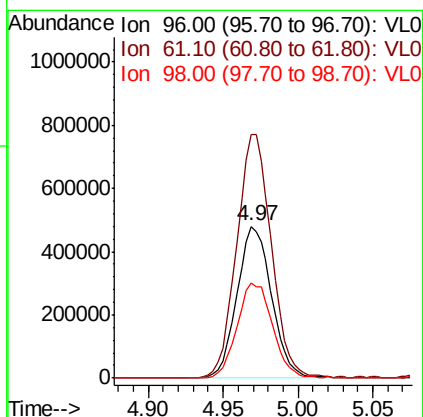
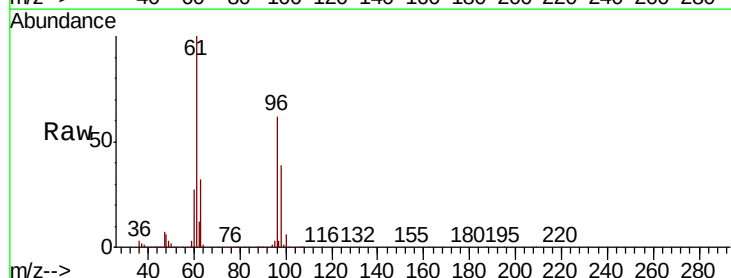
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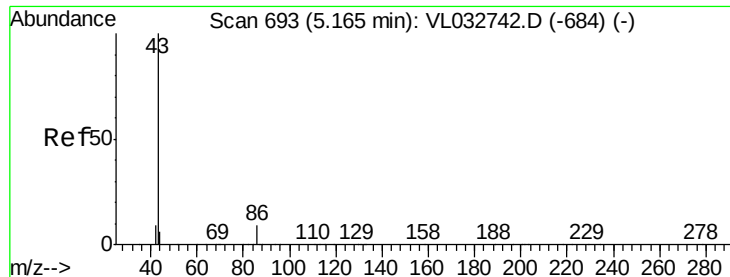
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#22
trans-1,2-Dichloroethene
Concen: 11.163 ppbv
RT: 4.97 min Scan# 632
Delta R.T. -0.00 min
Lab File: VL032874.D
Acq: 4 Dec 2018 9:53

Tgt Ion	Ratio	Lower	Upper
96	100		
61	160.4	130.2	195.2
98	62.9	50.2	75.2





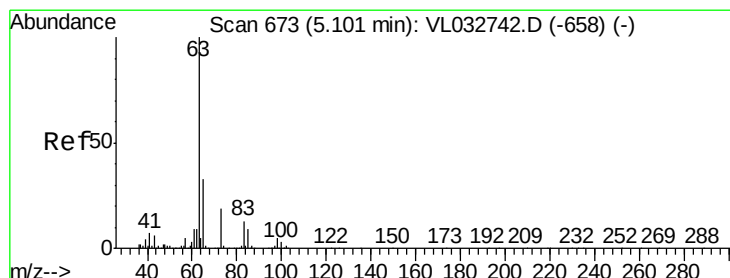
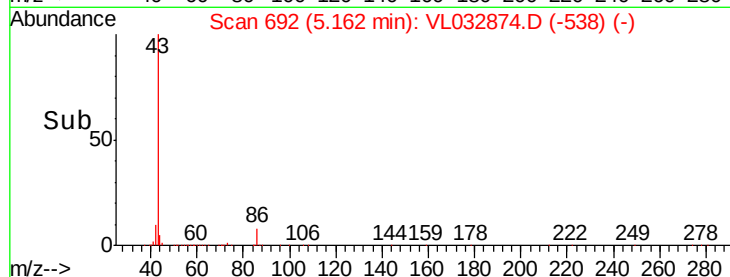
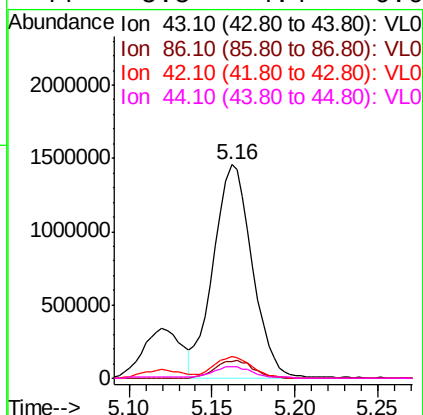
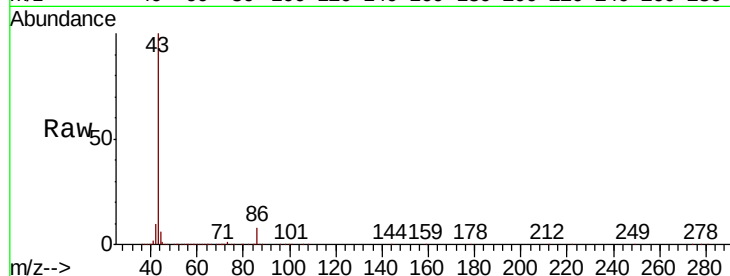
#23
 Vinyl Acetate
 Concen: 10.859 ppbv
 RT: 5.16 min Scan# 692
 Delta R.T. -0.00 min
 Lab File: VL032874.D
 Acq: 4 Dec 2018 9:53

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ion	Ratio	Lower	Upper
43	100			
86	7.8	6.2	9.4	
42	10.1	7.8	11.6	
44	5.5	4.4	6.6	

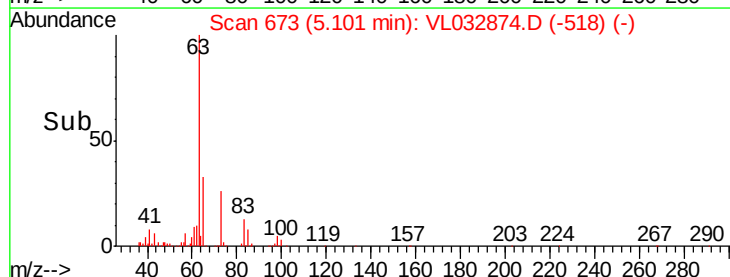
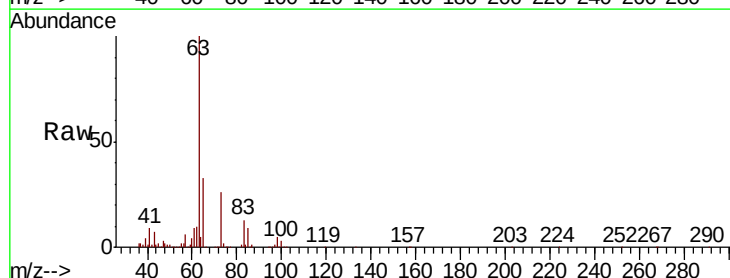
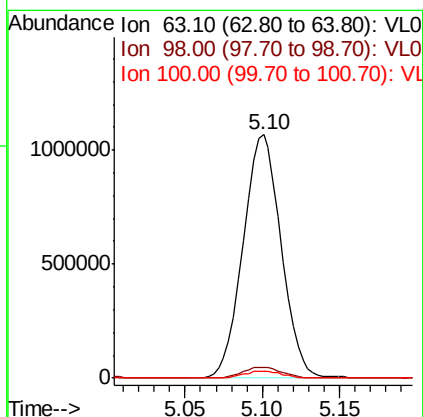
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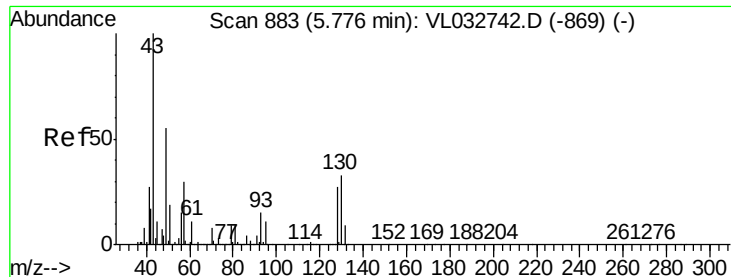
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#24
 1,1-Dichloroethane
 Concen: 10.567 ppbv
 RT: 5.10 min Scan# 673
 Delta R.T. -0.00 min
 Lab File: VL032874.D
 Acq: 4 Dec 2018 9:53

Tgt Ion	Ion	Ratio	Lower	Upper
63	100			
98	4.4	2.3	6.8	
100	3.0	1.4	4.2	





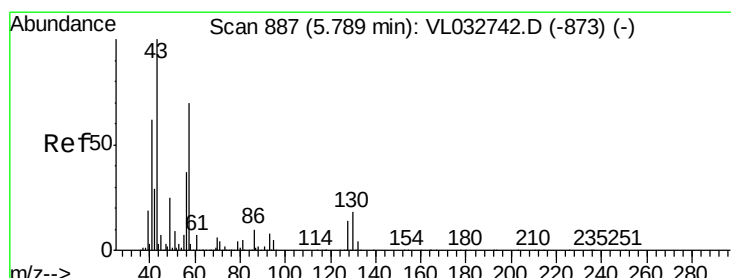
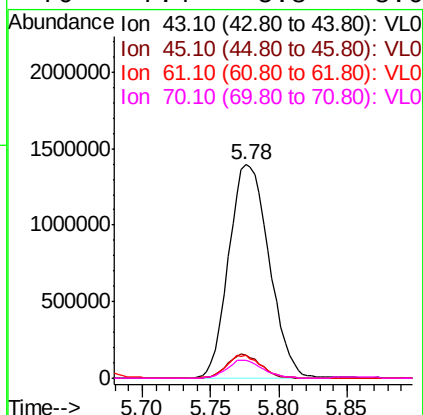
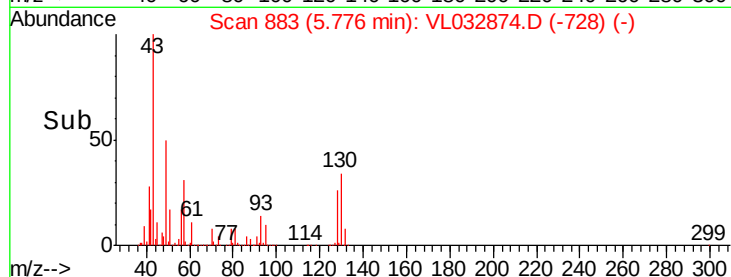
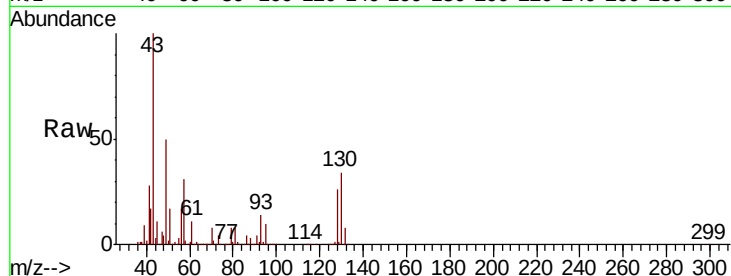
#25
Ethyl Acetate
Concen: 10.324 ppbv
RT: 5.78 min Scan# 883
Delta R.T. -0.00 min
Lab File: VL032874.D
Acq: 4 Dec 2018 9:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ion	Ratio	Lower	Upper
43	100			
45	9.6	7.9	11.9	
61	9.3	7.8	11.6	
70	7.4	5.8	8.6	

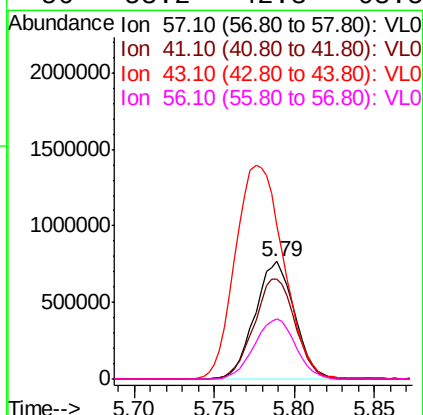
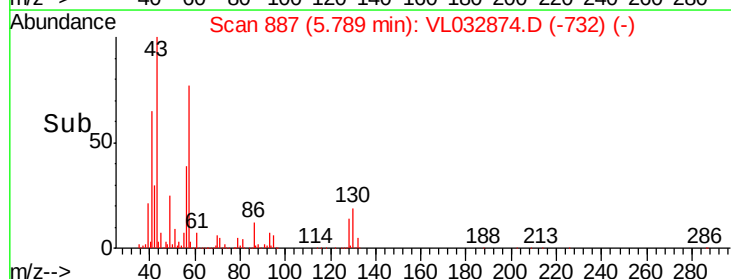
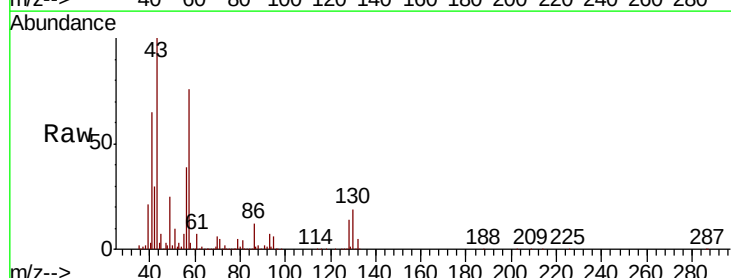
Manual Integrations
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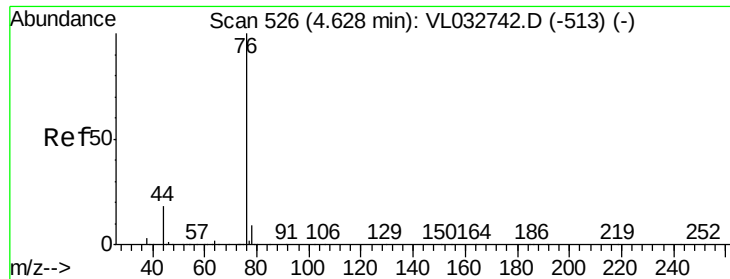
MMDadoda
12/10/2018 12:59:31 PM



#26
Hexane
Concen: 10.606 ppbv
RT: 5.79 min Scan# 887
Delta R.T. -0.00 min
Lab File: VL032874.D
Acq: 4 Dec 2018 9:53

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	88.6	70.3	105.5	
43	219.2	174.0	261.0	
56	53.2	42.3	63.5	





#27

Carbon Disulfide

Concen: 12.525 ppbv

RT: 4.63 min Scan# 526

Delta R.T. -0.00 min

Lab File: VL032874.D

Acq: 4 Dec 2018 9:53

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 76 Resp: 1964813

Ion Ratio Lower Upper

76 100

44 17.7 14.4 21.6

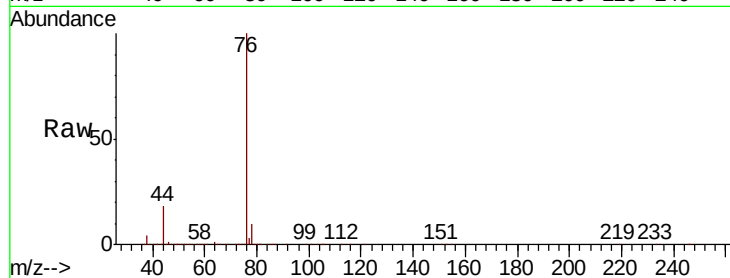
78 9.2 7.7 11.5

Manual Integrations

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MMDadoda

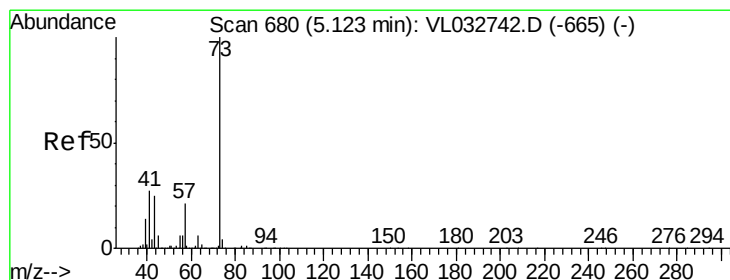
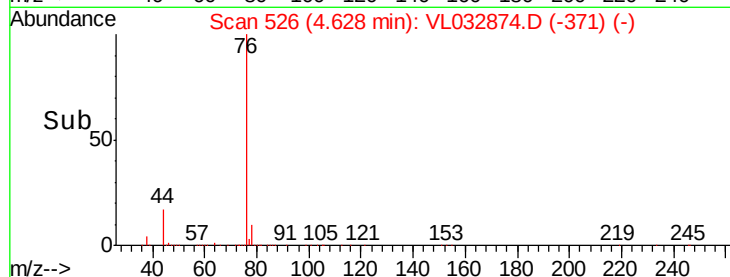
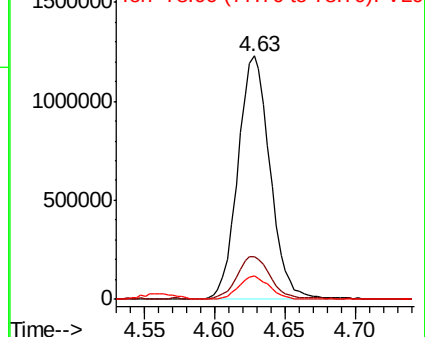
12/10/2018 12:59:31 PM



Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 12.015 ppbv

RT: 5.12 min Scan# 679

Delta R.T. -0.00 min

Lab File: VL032874.D

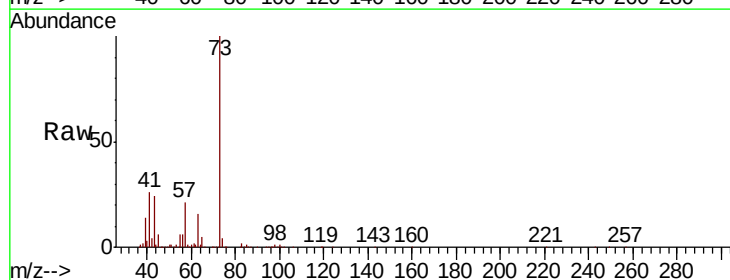
Acq: 4 Dec 2018 9:53

Tgt Ion: 73 Resp: 2370485

Ion Ratio Lower Upper

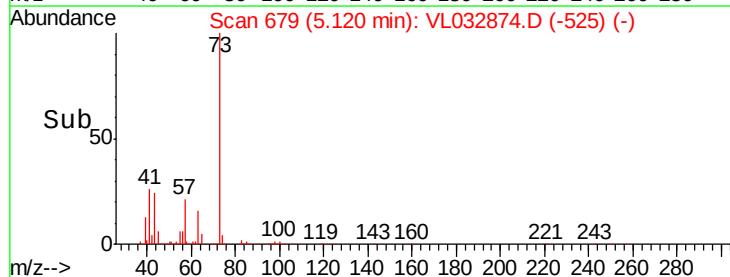
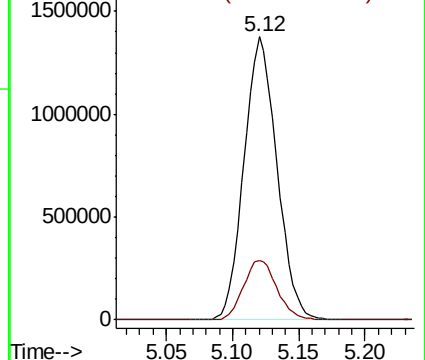
73 100

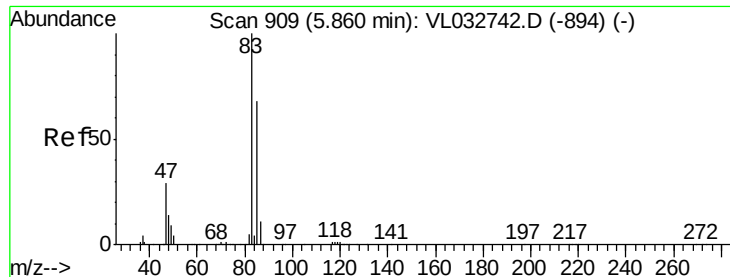
57 21.7 17.5 26.3



Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





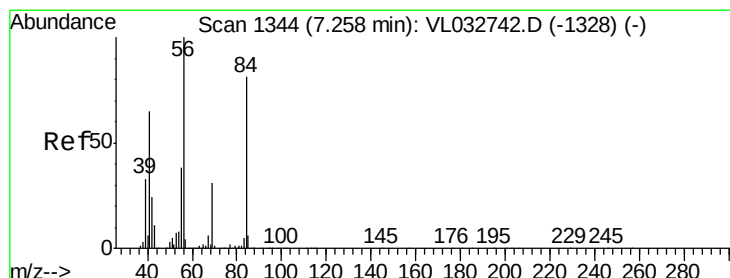
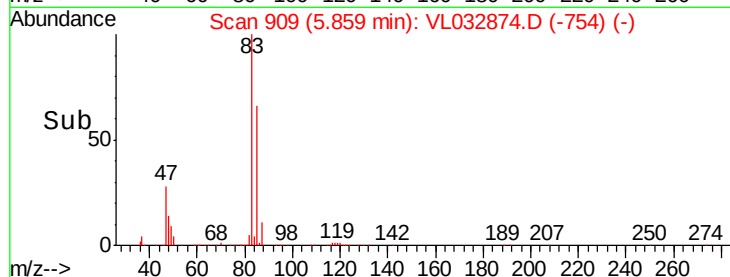
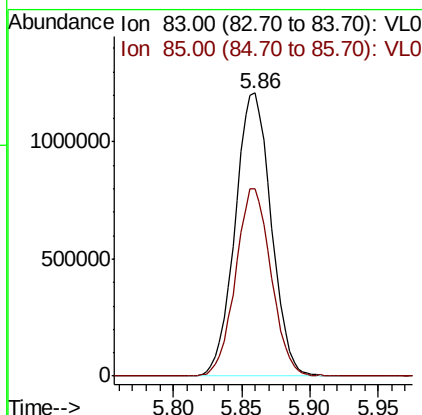
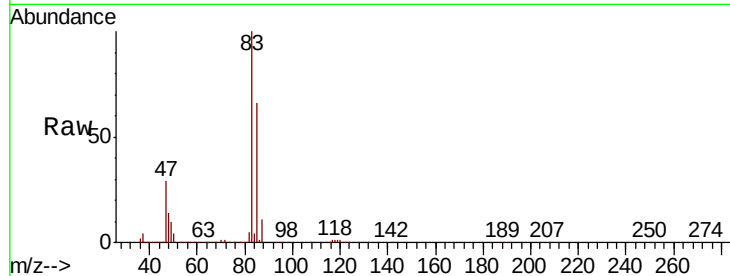
#29
Chloroform
Concen: 10.052 ppbv
RT: 5.86 min Scan# 909
Delta R.T. -0.00 min
Lab File: VL032874.D
Acq: 4 Dec 2018 9:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 83 Resp: 2216567
Ion Ratio Lower Upper
83 100
85 66.0 54.2 81.4

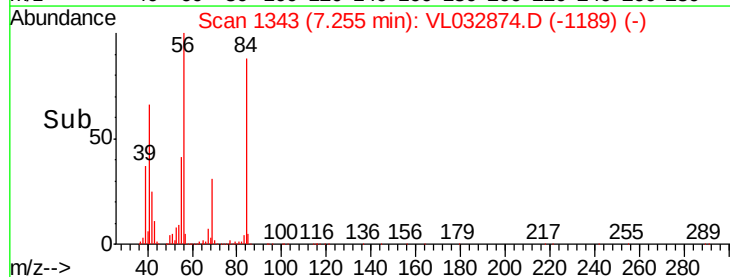
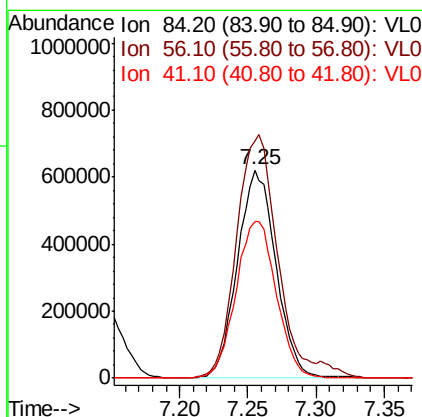
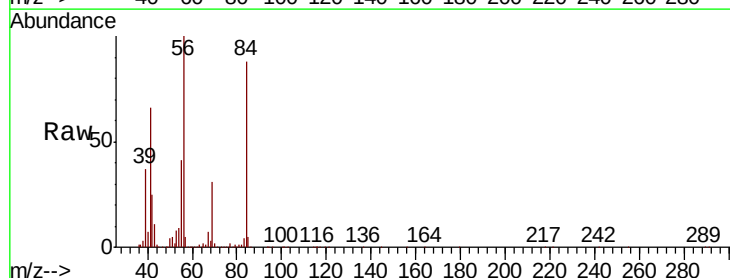
Manual Integrations
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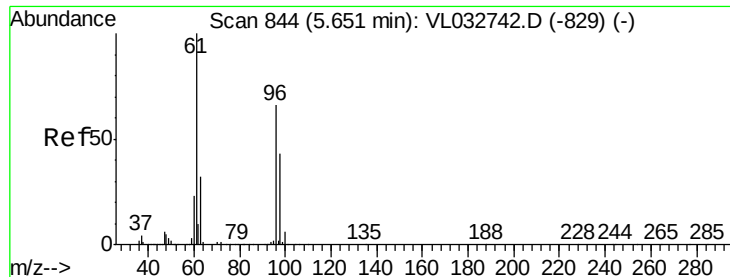
MMDadoda
12/10/2018 12:59:31 PM



#30
Cyclohexane
Concen: 11.266 ppbv
RT: 7.25 min Scan# 1343
Delta R.T. -0.00 min
Lab File: VL032874.D
Acq: 4 Dec 2018 9:53

Tgt Ion: 84 Resp: 1219116
Ion Ratio Lower Upper
84 100
56 126.7 105.0 157.4
41 79.0 65.3 97.9





#31

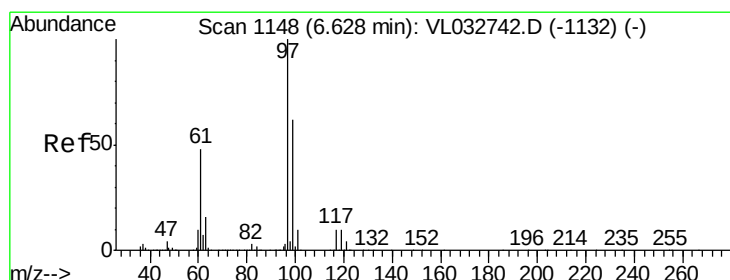
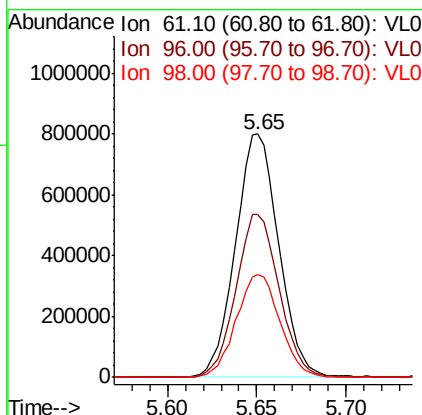
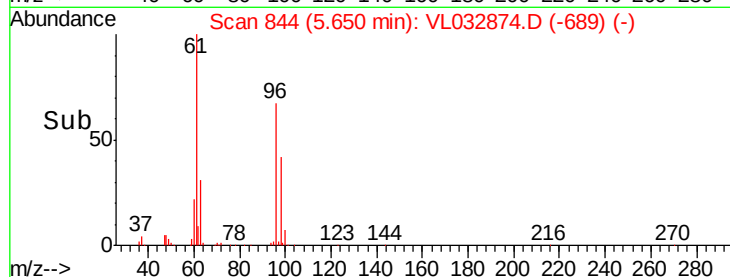
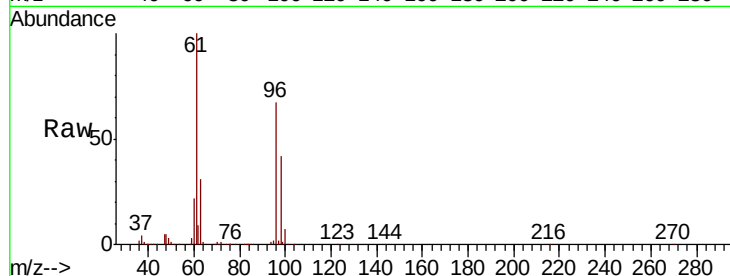
cis-1,2-Dichloroethene
Concen: 10.894 ppbv
RT: 5.65 min Scan# 844
Delta R.T. -0.00 min
Lab File: VL032874.D
Acq: 4 Dec 2018 9:53

Instrument :
MSVOA_L
ClientSampled :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
61	100		
96	66.9	53.2	79.8
98	42.0	34.4	51.6

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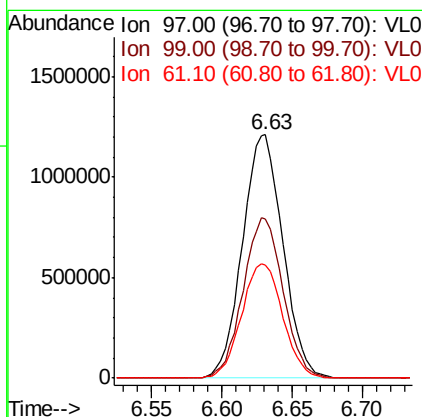
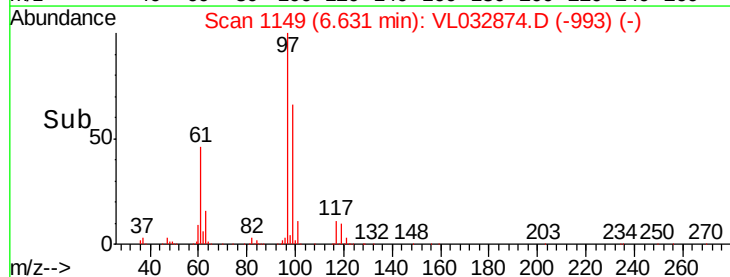
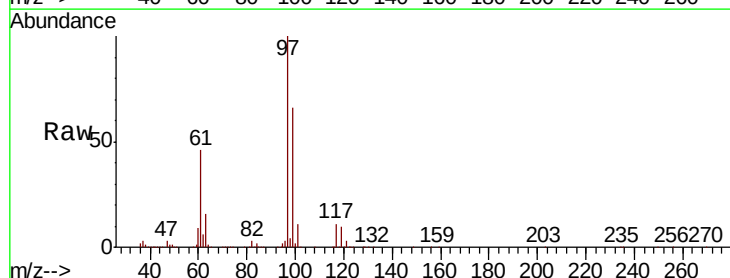
MMDadoda
12/10/2018 12:59:31 PM

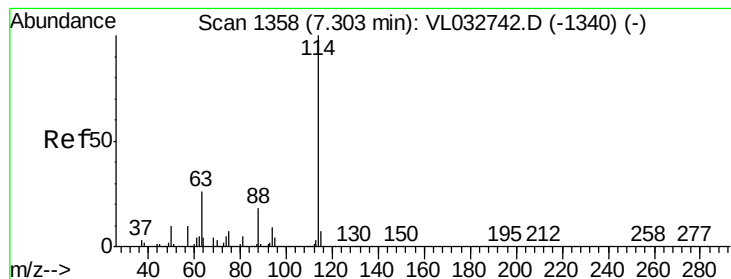


#32

1,1,1-Trichloroethane
Concen: 10.060 ppbv
RT: 6.63 min Scan# 1149
Delta R.T. 0.00 min
Lab File: VL032874.D
Acq: 4 Dec 2018 9:53

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.3	51.8	77.6
61	47.9	39.7	59.5





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.30 min Scan# 1358

Delta R.T. -0.00 min

Lab File: VL032874.D

Acq: 4 Dec 2018 9:53

Instrument :

MSVOA_L

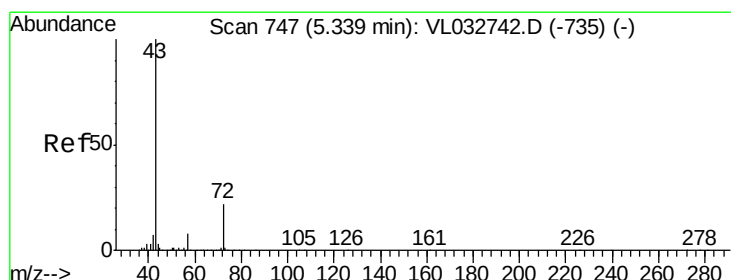
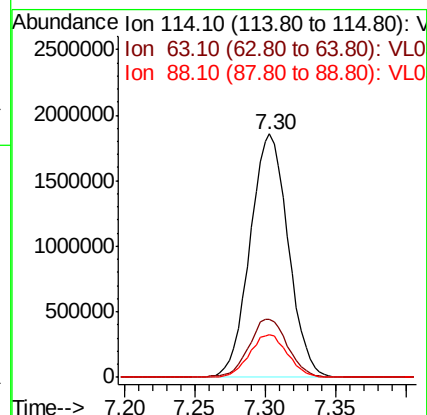
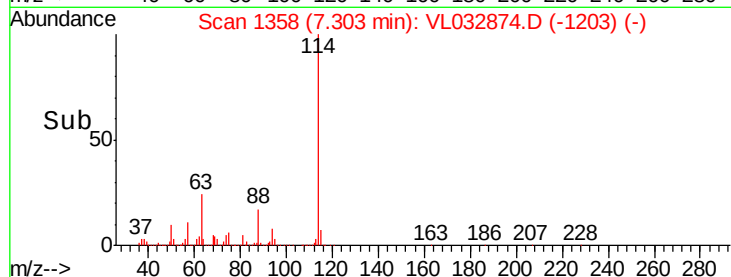
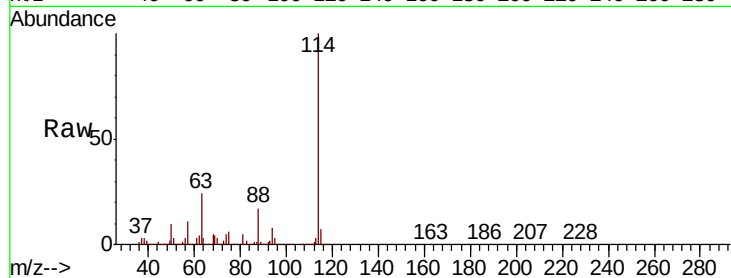
ClientSampleId :

VSTDCCC010

Tot Ion:	114	Resp:	3511821
Ion	Ratio	Lower	Upper
114	100		
63	24.3	20.9	31.3
88	17.5	14.4	21.6

Manual Integrations
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#34

2-Butanone

Concen: 10.026 ppbv

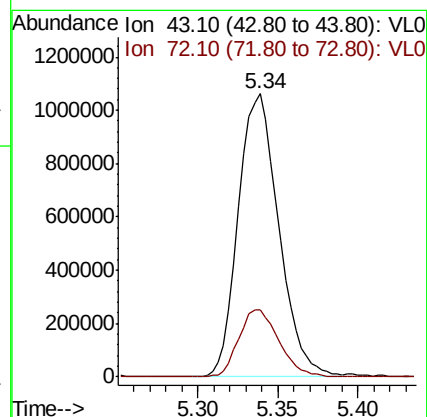
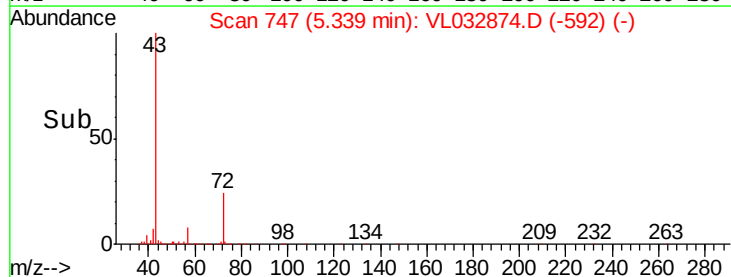
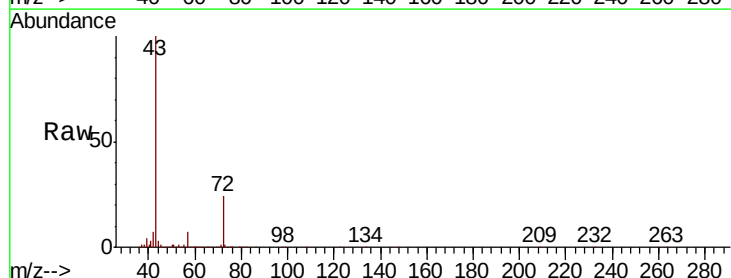
RT: 5.34 min Scan# 747

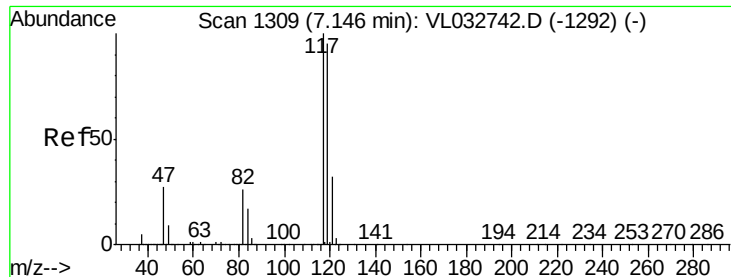
Delta R.T. -0.00 min

Lab File: VL032874.D

Acq: 4 Dec 2018 9:53

Tgt Ion:	43	Resp:	1826106
Ion	Ratio	Lower	Upper
43	100		
72	23.7	18.4	27.6





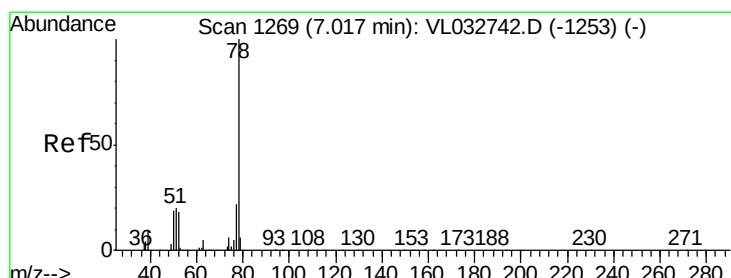
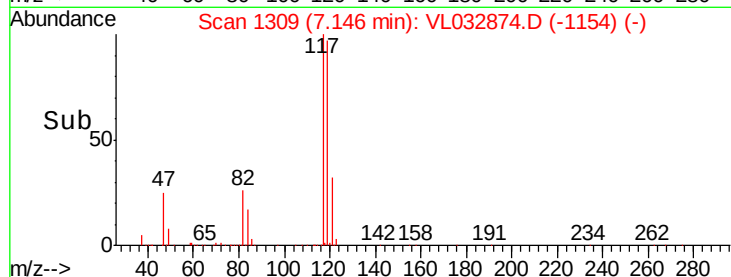
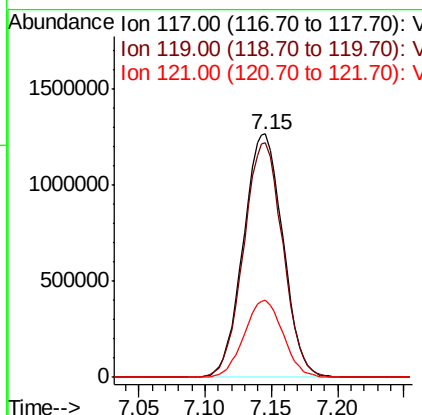
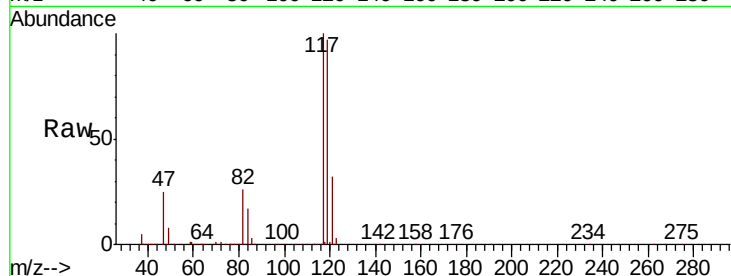
#35
Carbon Tetrachloride
Concen: 9.285 ppbv
RT: 7.15 min Scan# 1309
Delta R.T. -0.00 min
Lab File: VL032874.D
Acq: 4 Dec 2018 9:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
117	100		
119	96.6	76.1	114.1
121	31.9	25.4	38.0

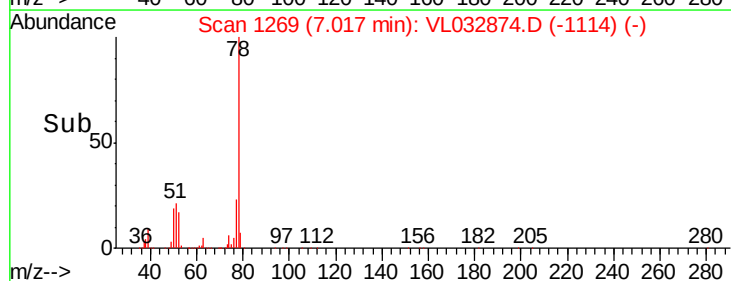
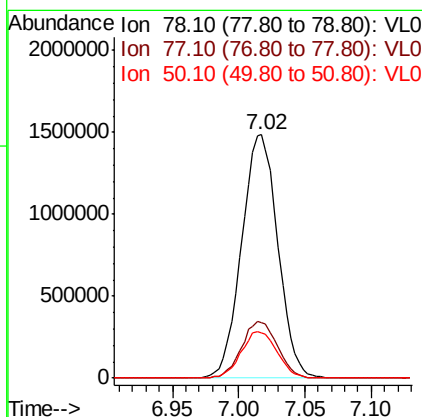
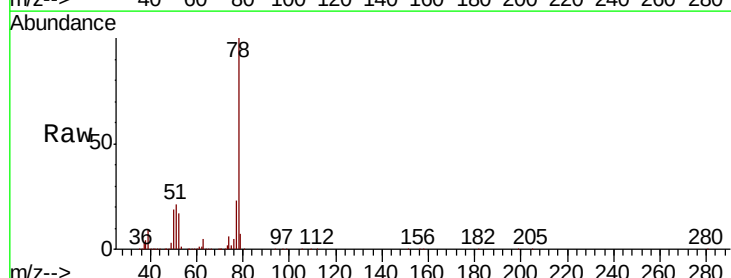
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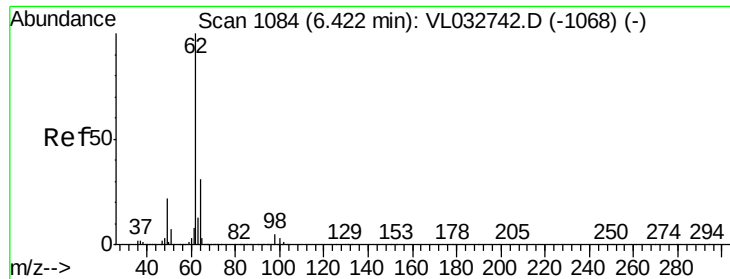
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#36
Benzene
Concen: 10.096 ppbv
RT: 7.02 min Scan# 1269
Delta R.T. -0.00 min
Lab File: VL032874.D
Acq: 4 Dec 2018 9:53

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.0	17.8	26.8
50	18.8	15.4	23.0





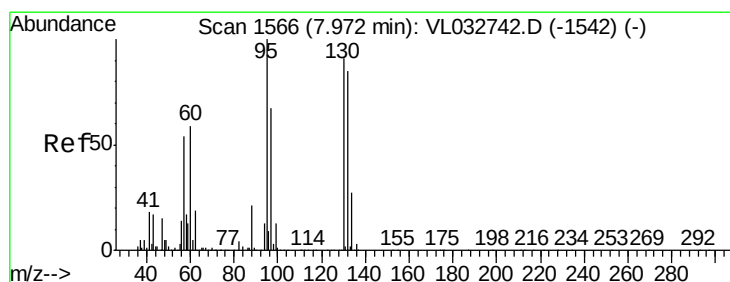
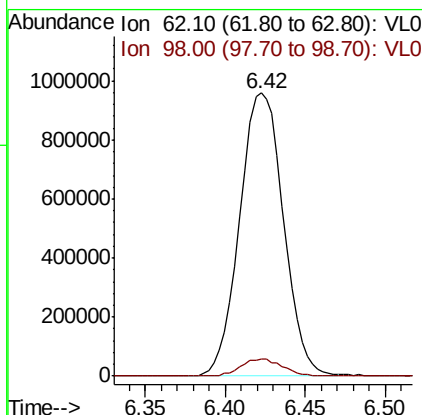
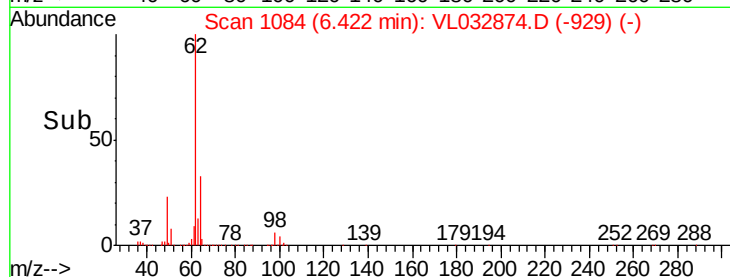
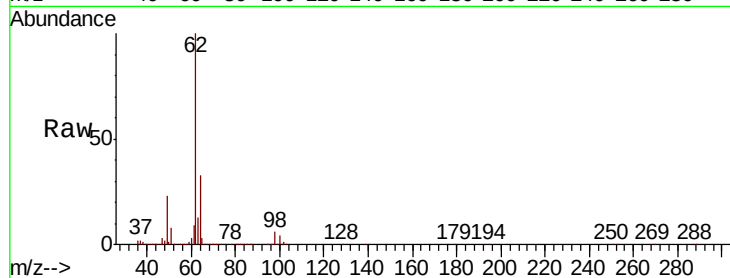
#37
 1,2-Dichloroethane
 Concen: 9.506 ppbv
 RT: 6.42 min Scan# 1084
 Delta R.T. -0.00 min
 Lab File: VL032874.D
 Acq: 4 Dec 2018 9:53

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion: 62 Resp: 1789518
 Ion Ratio Lower Upper
 62 100
 98 5.9 4.5 6.7

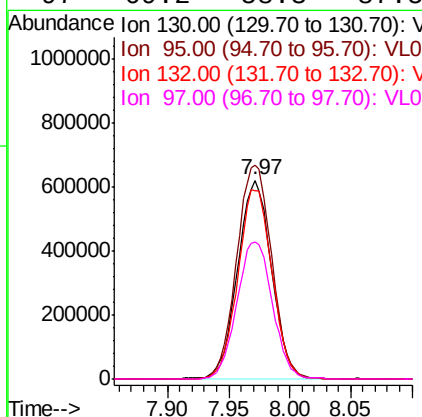
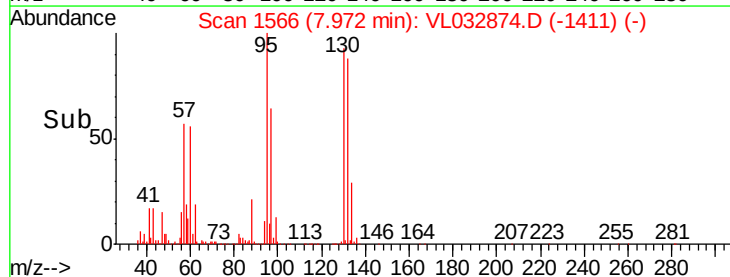
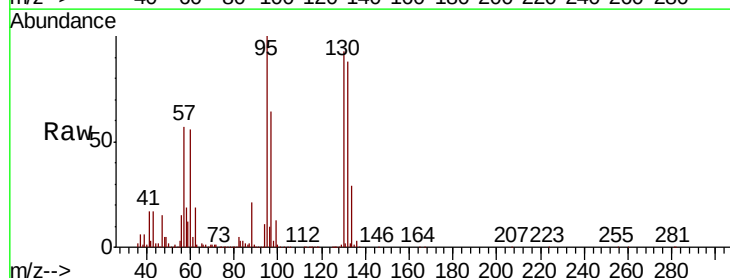
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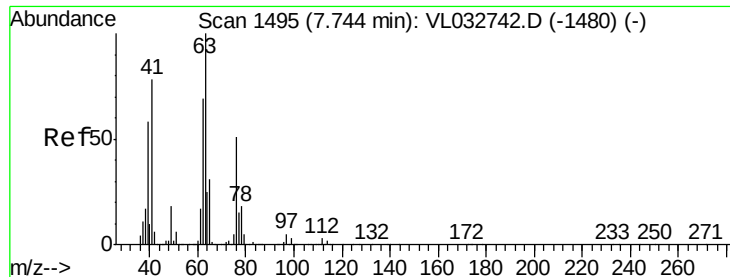
MMDadoda
 12/10/2018 12:59:31 PM



#38
 Trichloroethene
 Concen: 10.464 ppbv
 RT: 7.97 min Scan# 1566
 Delta R.T. -0.00 min
 Lab File: VL032874.D
 Acq: 4 Dec 2018 9:53

Tgt Ion: 130 Resp: 1184227
 Ion Ratio Lower Upper
 130 100
 95 107.6 87.7 131.5
 132 94.5 74.6 111.8
 97 69.2 58.3 87.5





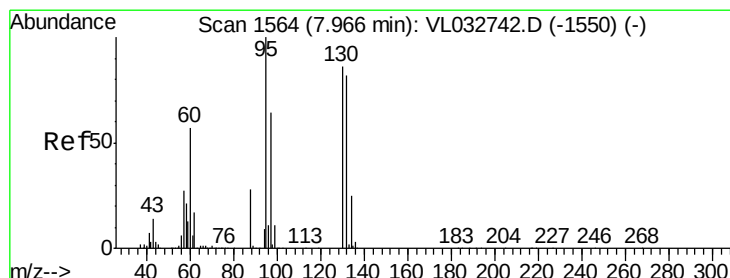
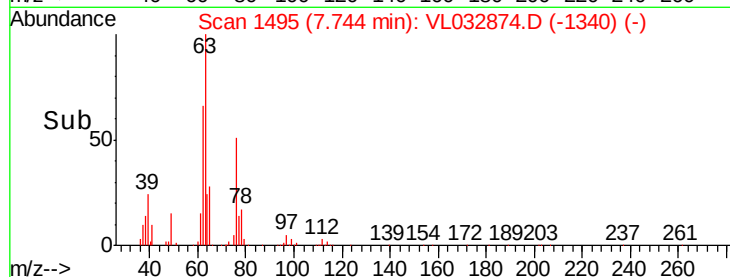
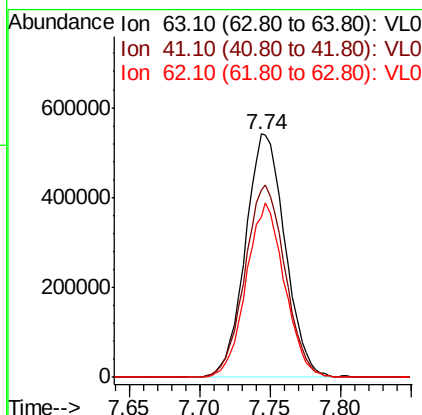
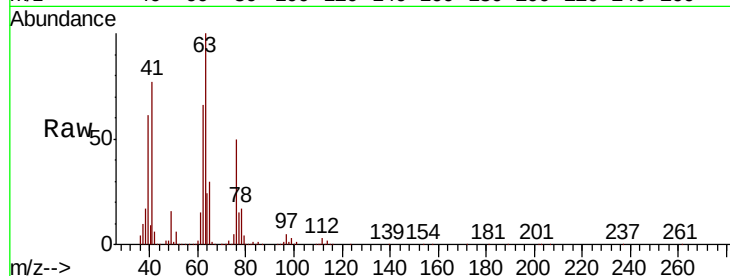
#39
 1,2-Dichloropropane
 Concen: 10.026 ppbv
 RT: 7.74 min Scan# 1495
 Delta R.T. -0.00 min
 Lab File: VL032874.D
 Acq: 4 Dec 2018 9:53

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
63	100		
41	76.8	62.0	93.0
62	65.8	55.4	83.2

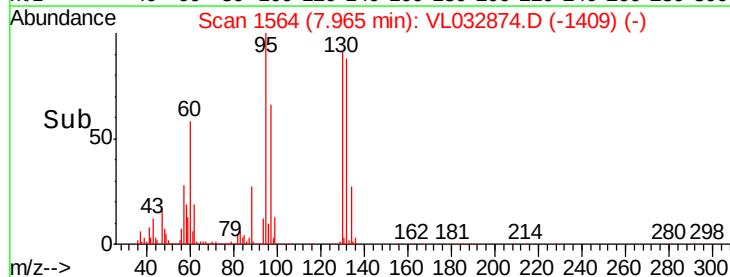
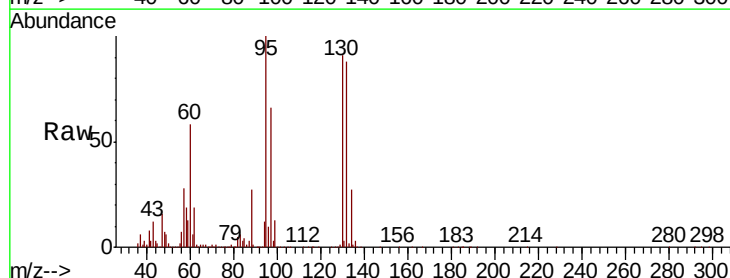
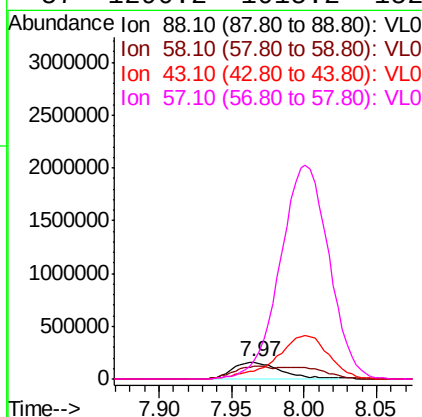
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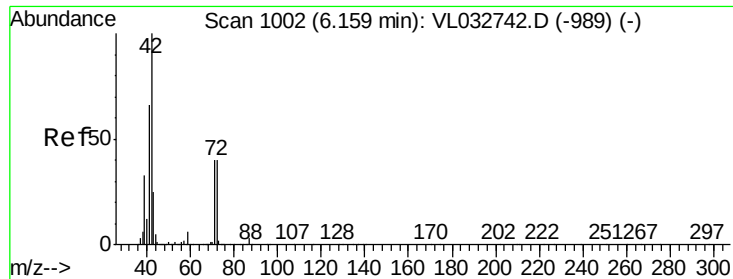
MMDadoda
 12/10/2018 12:59:31 PM



#40
 1,4-Dioxane
 Concen: 9.679 ppbv
 RT: 7.97 min Scan# 1564
 Delta R.T. -0.00 min
 Lab File: VL032874.D
 Acq: 4 Dec 2018 9:53

Tgt Ion	Ratio	Lower	Upper
88	100		
58	132.0	105.3	157.9
43	284.1	226.1	339.1
57	1290.2	1015.2	1522.8





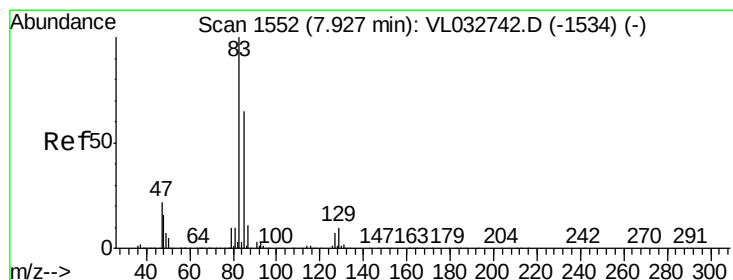
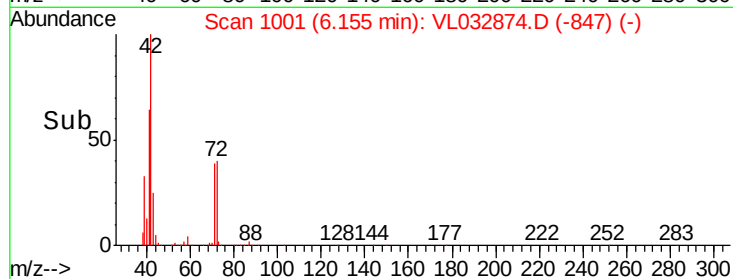
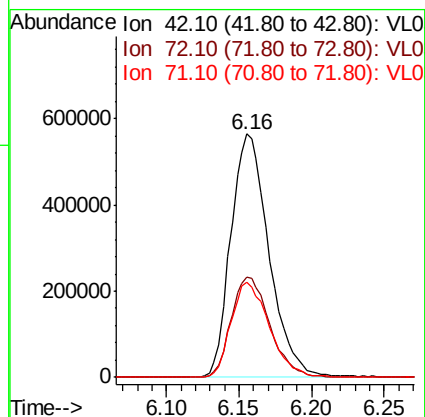
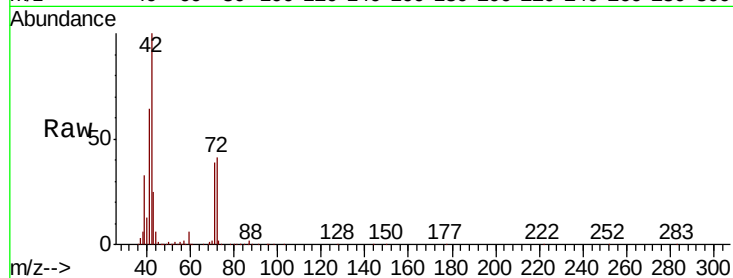
#41
Tetrahydrofuran
Concen: 9.873 ppbv
RT: 6.16 min Scan# 1001
Delta R.T. -0.00 min
Lab File: VL032874.D
Acq: 4 Dec 2018 9:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
42	100		
72	41.8	32.4	48.6
71	39.3	31.6	47.4

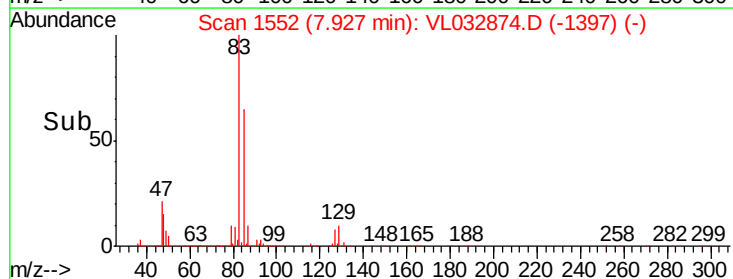
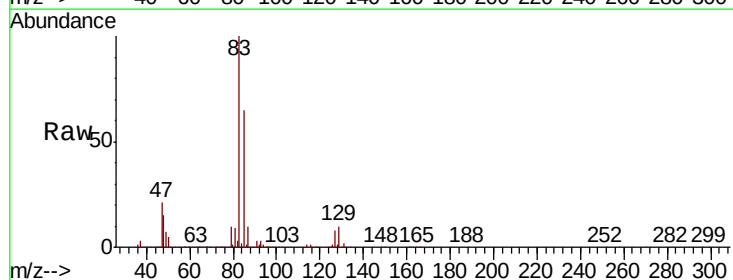
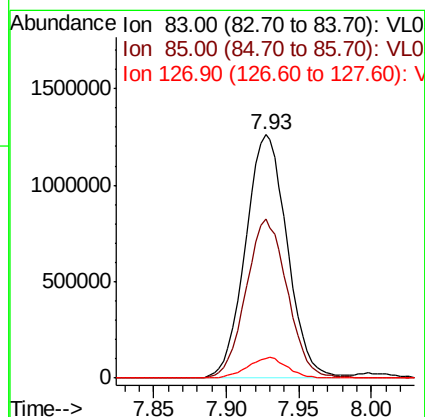
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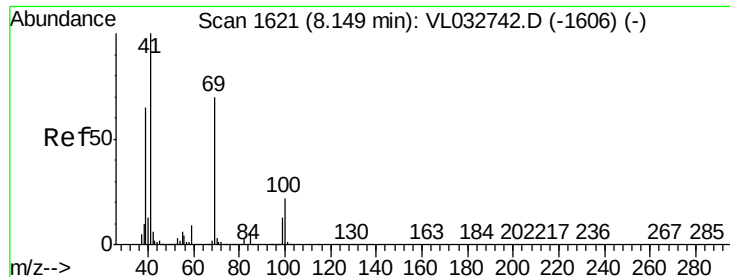
MMDadoda
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#42
Bromodichloromethane
Concen: 9.899 ppbv
RT: 7.93 min Scan# 1552
Delta R.T. -0.00 min
Lab File: VL032874.D
Acq: 4 Dec 2018 9:53

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.1	51.8	77.8
127	8.3	5.9	8.9





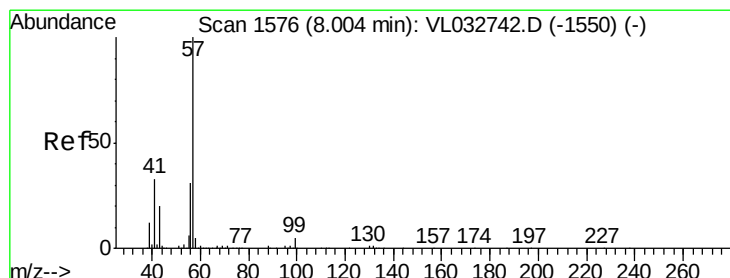
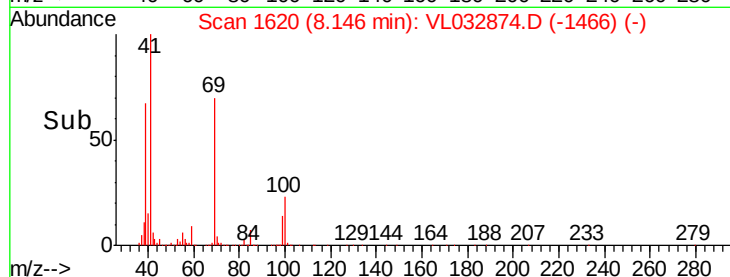
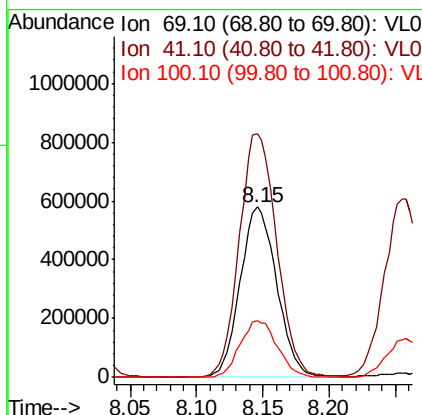
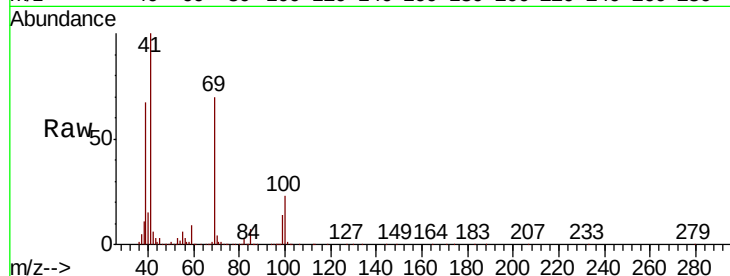
#43
Methvl Methacrylate
Concen: 10.681 ppbv
RT: 8.15 min Scan# 1620
Delta R.T. -0.00 min
Lab File: VL032874.D
Acq: 4 Dec 2018 9:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 69 Resp: 1115168
Ion Ratio Lower Upper
69 100
41 146.3 115.0 172.4
100 33.9 25.4 38.0

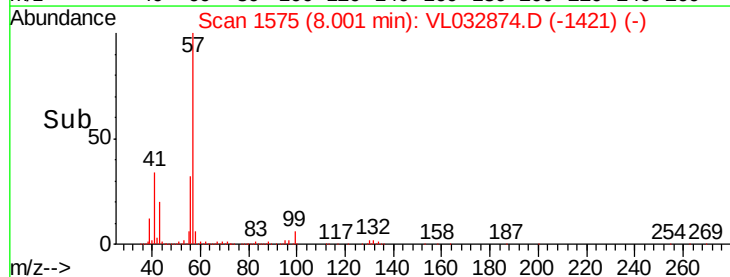
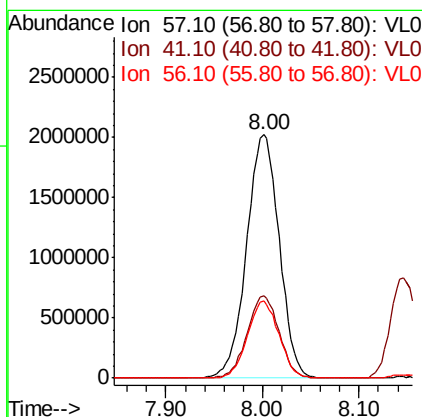
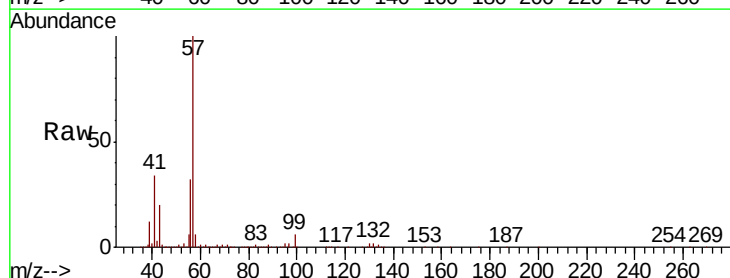
Manual Integrations
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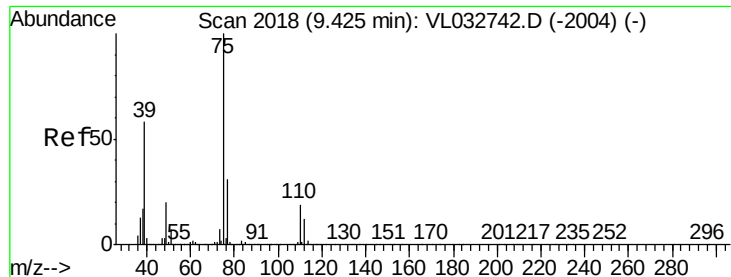
MMDadoda
12/10/2018 12:59:31 PM



#44
2,2,4-Trimethylpentane
Concen: 10.164 ppbv
RT: 8.00 min Scan# 1575
Delta R.T. -0.00 min
Lab File: VL032874.D
Acq: 4 Dec 2018 9:53

Tgt Ion: 57 Resp: 4749797
Ion Ratio Lower Upper
57 100
41 33.0 26.6 39.8
56 30.6 24.8 37.2





#45

t-1,3-Dichloropropene

Concen: 11.177 ppbv

RT: 9.43 min Scan# 2018

Delta R.T. -0.00 min

Lab File: VL032874.D

Acq: 4 Dec 2018 9:53

Tot Ion: 75 Resp: 1565793

Ion Ratio Lower Upper

75 100

77 31.6 24.6 36.8

Instrument :

MSVOA_L

ClientSampleId :

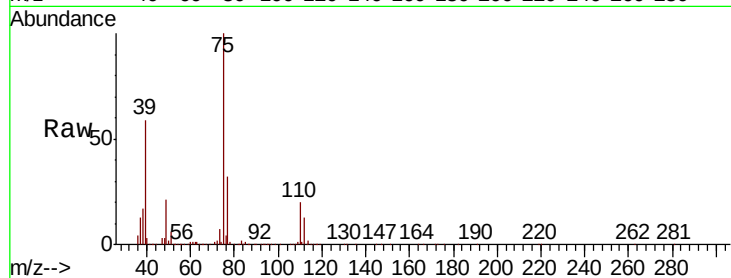
VSTDCCC010

Manual Integrations

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MMDadoda

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Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

800000

600000

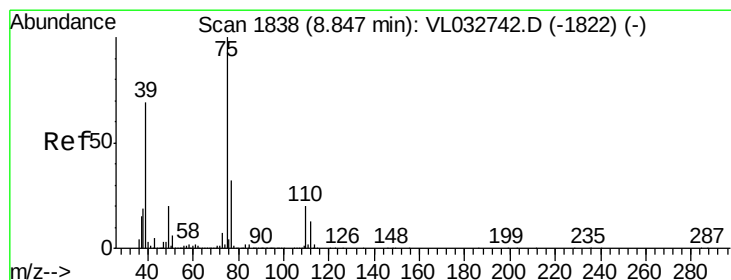
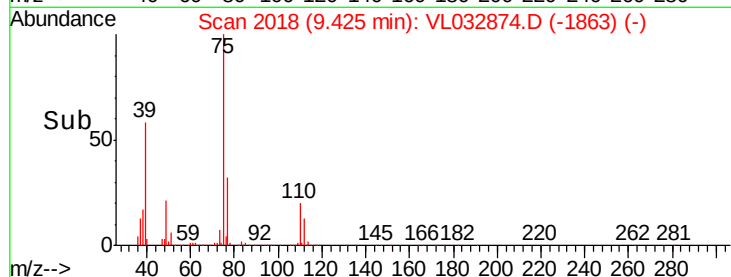
400000

200000

0

9.35 9.40 9.45 9.50

Time-->



#46

cis-1,3-Dichloropropene

Concen: 11.495 ppbv

RT: 8.85 min Scan# 1838

Delta R.T. -0.00 min

Lab File: VL032874.D

Acq: 4 Dec 2018 9:53

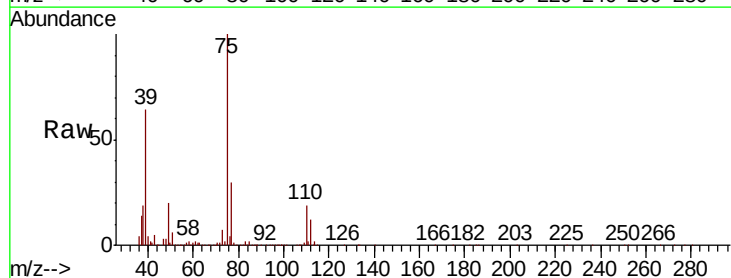
Tgt Ion: 75 Resp: 1945614

Ion Ratio Lower Upper

75 100

39 63.6 55.2 82.8

77 30.2 25.8 38.6



Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0

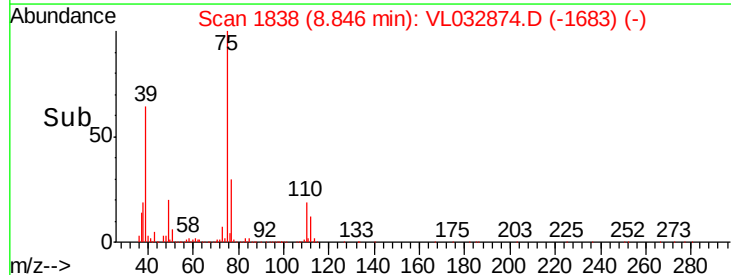
1000000

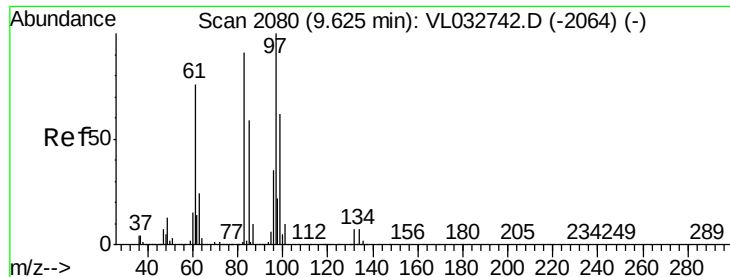
500000

0

8.75 8.80 8.85 8.90 8.95

Time-->





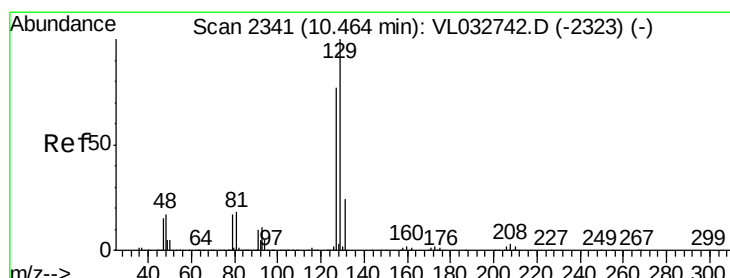
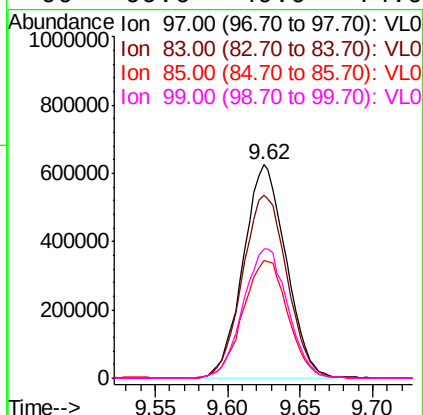
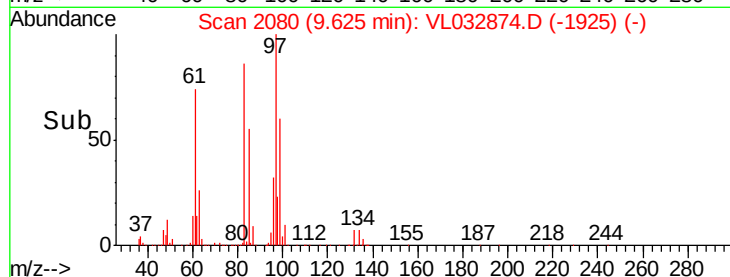
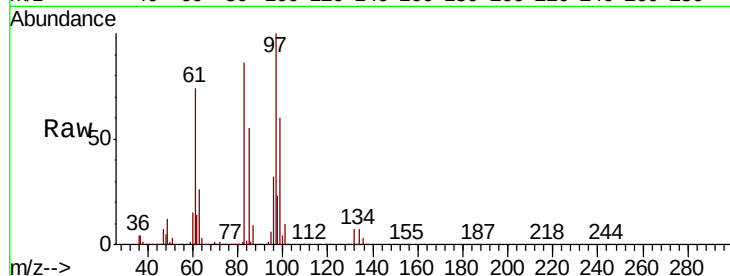
#47
 1,1,2-Trichloroethane
 Concen: 10.192 ppbv
 RT: 9.62 min Scan# 2080
 Delta R.T. -0.00 min
 Lab File: VL032874.D
 Acq: 4 Dec 2018 9:53

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
97	100		
83	85.5	73.0	109.4
85	55.2	47.0	70.4
99	60.6	49.9	74.9

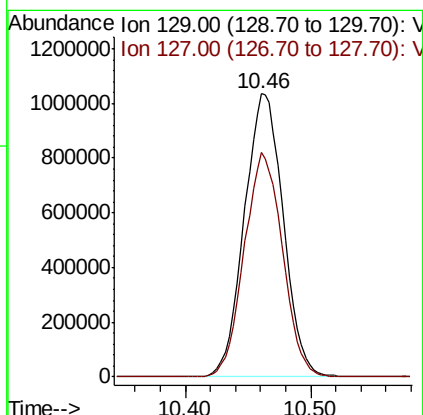
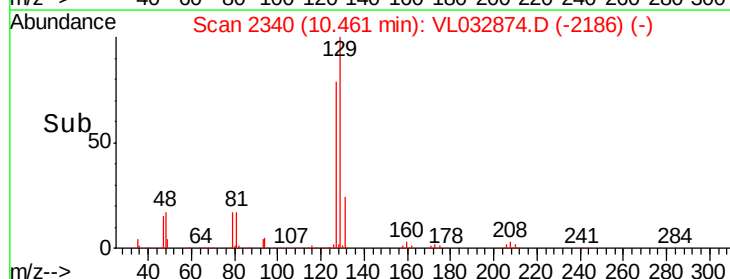
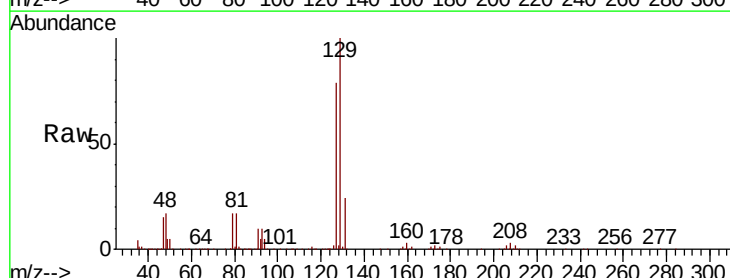
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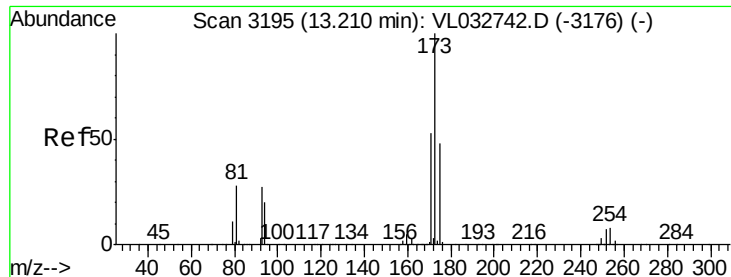
MMDadoda
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#48
 Dibromochloromethane
 Concen: 10.443 ppbv
 RT: 10.46 min Scan# 2340
 Delta R.T. -0.00 min
 Lab File: VL032874.D
 Acq: 4 Dec 2018 9:53

Tgt Ion	Ratio	Lower	Upper
129	100		
127	78.3	39.0	117.0





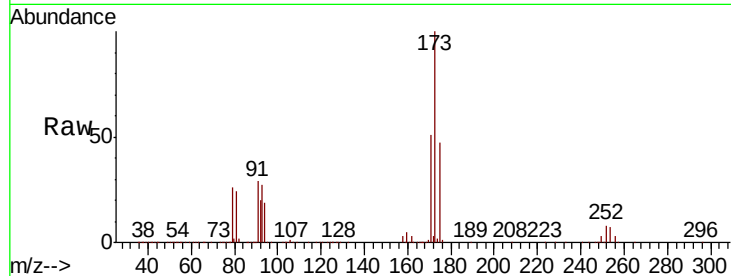
#49
Bromoform
Concen: 11.322 ppbv
RT: 13.21 min Scan# 3196
Delta R.T. 0.00 min
Lab File: VL032874.D
Acq: 4 Dec 2018 9:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

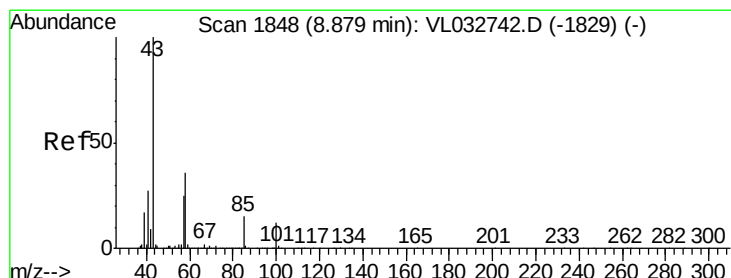
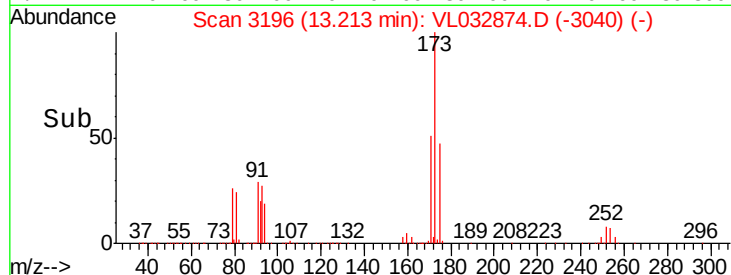
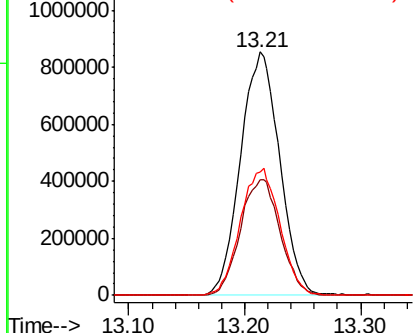
Tot Ion:173 Resp: 2002208
Ion Ratio Lower Upper
173 100
175 48.7 39.4 59.0
171 52.7 42.0 63.0

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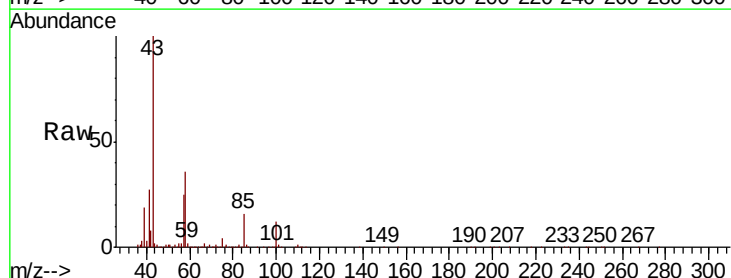


Abundance Ion 172.90 (172.60 to 173.60): V
Ion 174.90 (174.60 to 175.60): V
Ion 170.90 (170.60 to 171.60): V

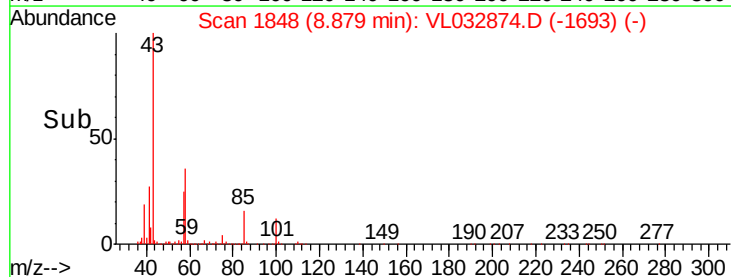
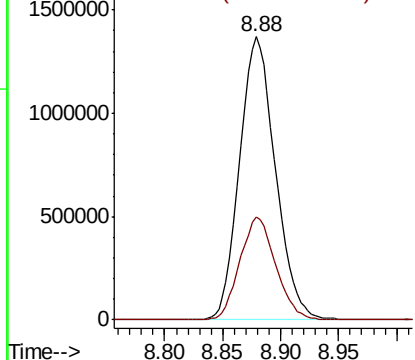


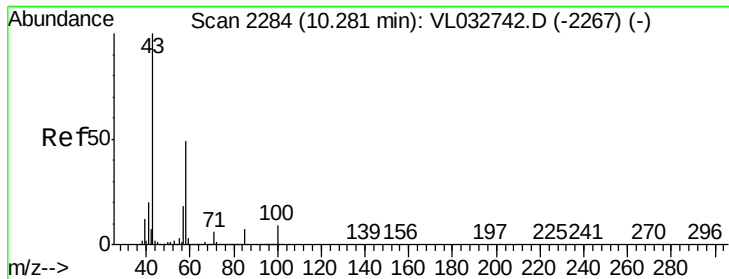
#50
4-Methyl-2-Pentanone
Concen: 10.346 ppbv
RT: 8.88 min Scan# 1848
Delta R.T. -0.00 min
Lab File: VL032874.D
Acq: 4 Dec 2018 9:53

Tgt Ion: 43 Resp: 2943253
Ion Ratio Lower Upper
43 100
58 36.5 28.8 43.2



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 58.10 (57.80 to 58.80): VL0





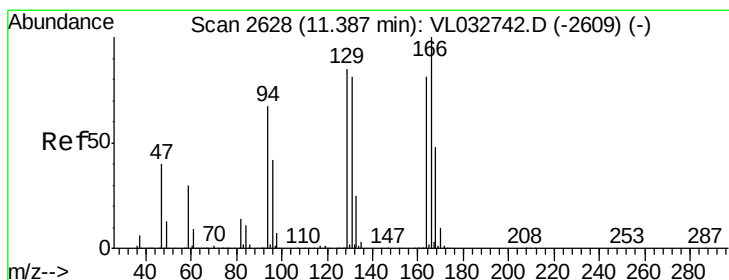
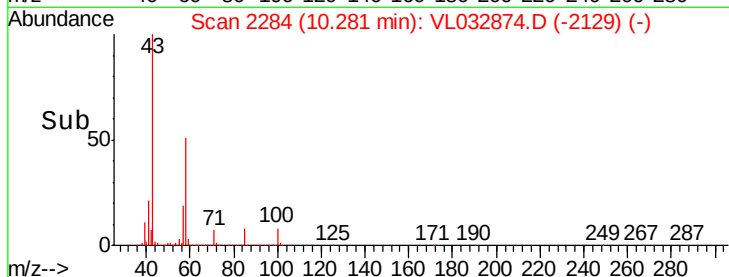
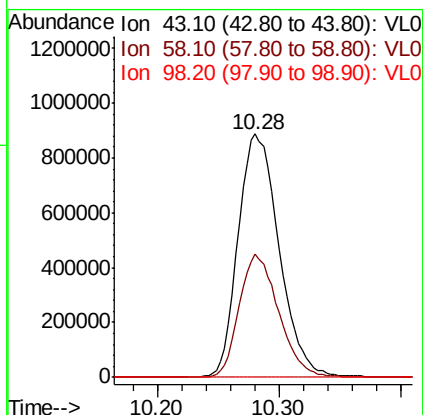
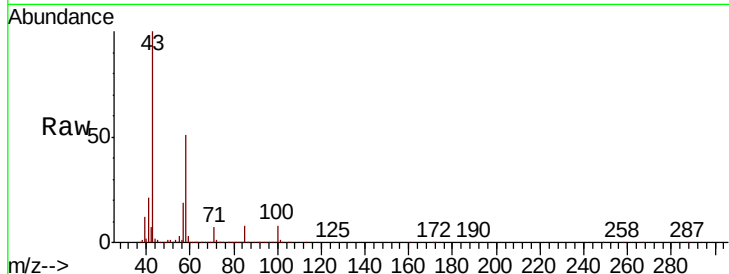
#51
2-Hexanone
Concen: 11.242 ppbv
RT: 10.28 min Scan# 2284
Delta R.T. -0.00 min
Lab File: VL032874.D
Acq: 4 Dec 2018 9:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
43	100		
58	49.0	38.9	58.3
98	0.4	0.2	0.4#

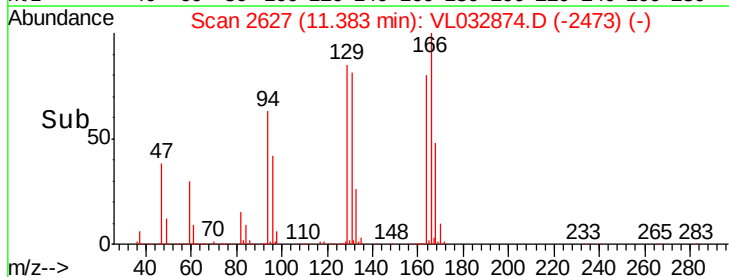
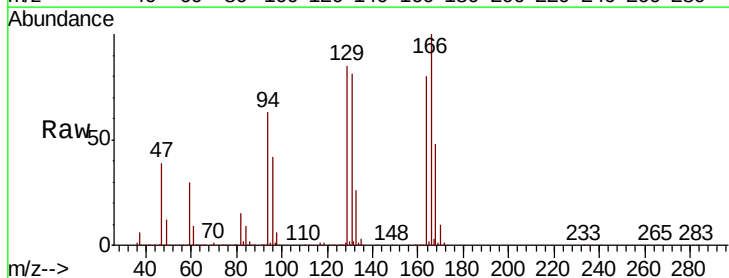
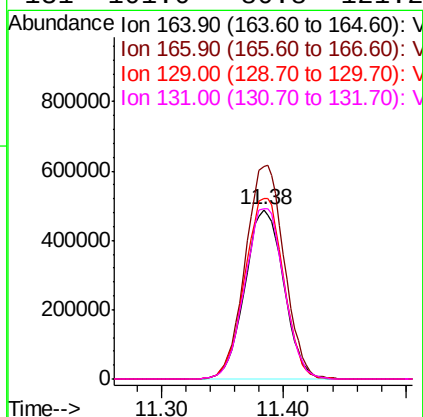
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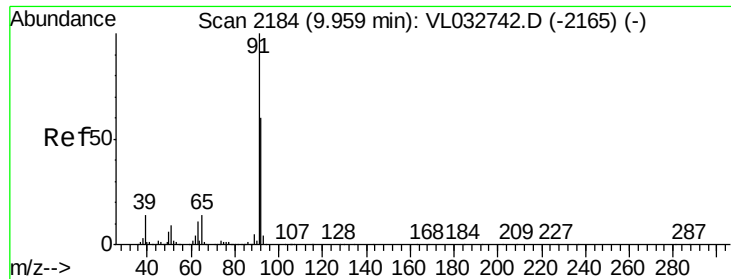
MMDadoda
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#52
Tetrachloroethene
Concen: 10.964 ppbv
RT: 11.38 min Scan# 2627
Delta R.T. -0.00 min
Lab File: VL032874.D
Acq: 4 Dec 2018 9:53

Tgt Ion	Ratio	Lower	Upper
164	100		
166	125.3	99.3	148.9
129	106.6	83.9	125.9
131	101.0	80.8	121.2





#53

Toluene

Concen: 11.433 ppbv

RT: 9.96 min Scan# 2183

Delta R.T. -0.00 min

Lab File: VL032874.D

Acq: 4 Dec 2018 9:53

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 91 Resp: 3335596

Ion Ratio Lower Upper

91 100

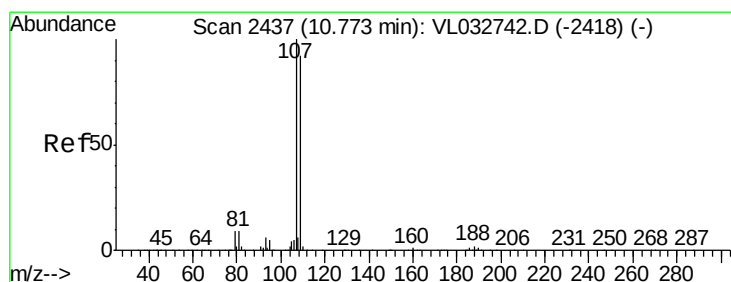
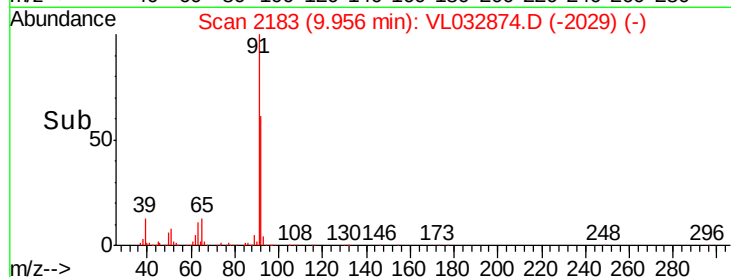
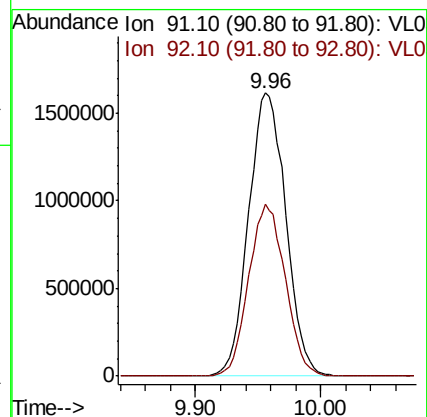
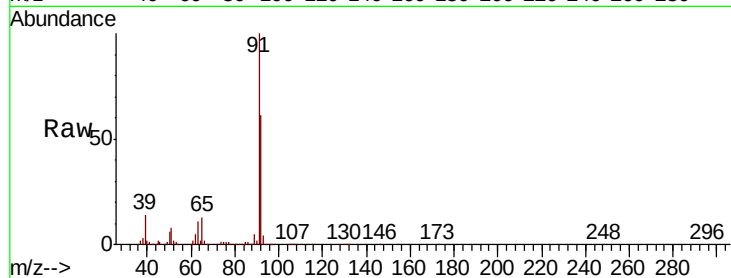
92 59.8 47.9 71.9

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#54

1,2-Dibromoethane

Concen: 10.519 ppbv

RT: 10.77 min Scan# 2437

Delta R.T. -0.00 min

Lab File: VL032874.D

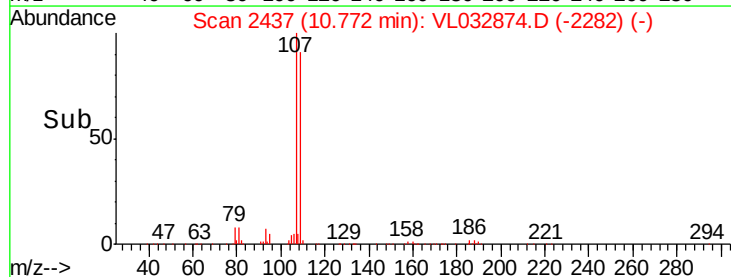
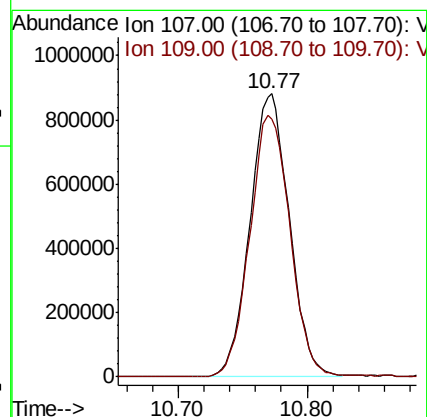
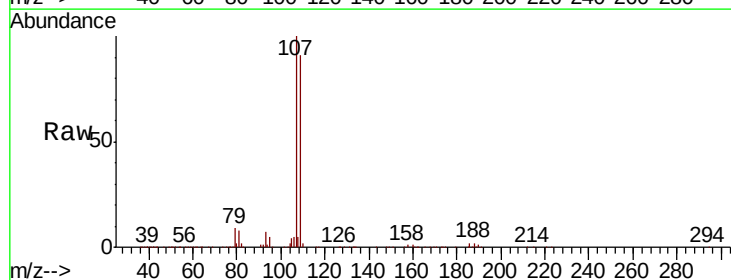
Acq: 4 Dec 2018 9:53

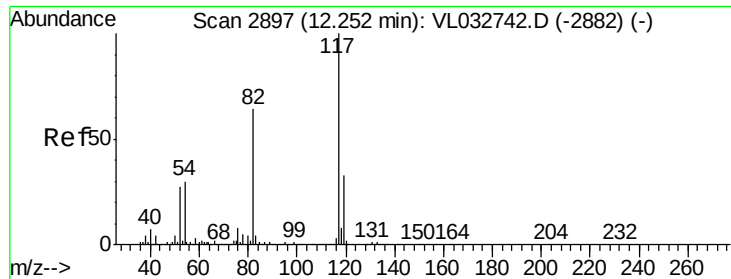
Tgt Ion: 107 Resp: 1873464

Ion Ratio Lower Upper

107 100

109 91.1 73.8 110.8





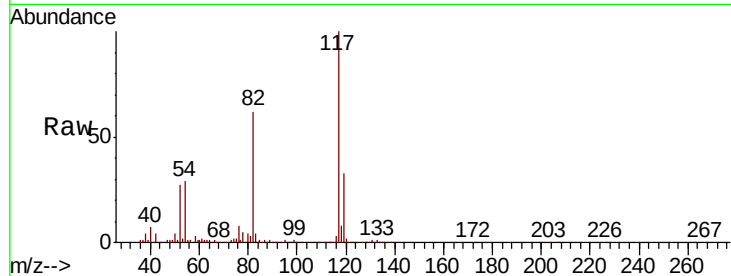
#55
Chlorobenzene-d5
Concen: 10.000 ppbv m
RT: 12.25 min Scan# 2897
Delta R.T. -0.00 min
Lab File: VL032874.D
Acq: 4 Dec 2018 9:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

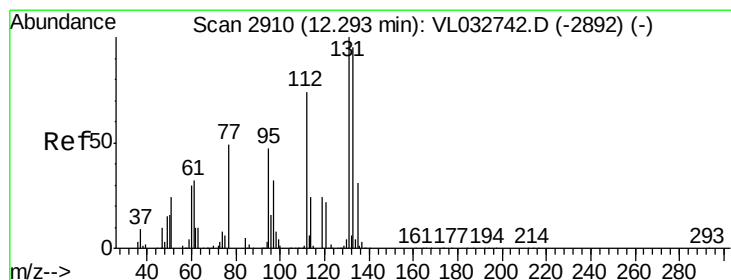
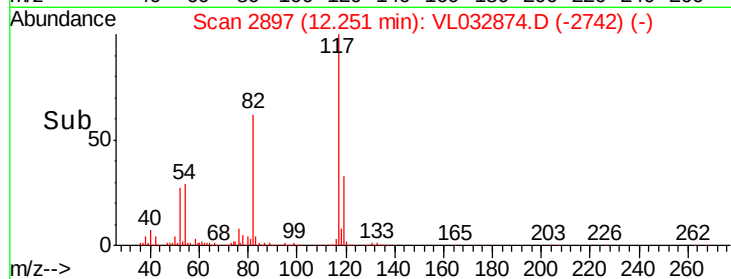
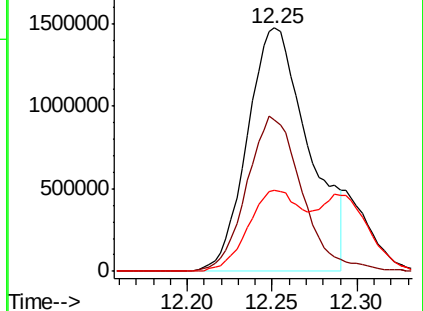
Tot Ion	Ratio	Lower	Upper
117	100		
82	57.8	51.0	76.6
119	30.6	28.0	42.0

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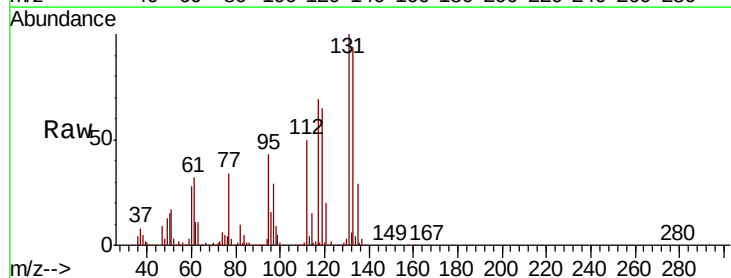


Abundance Ion 117.10 (116.80 to 117.80): V
2000000
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V

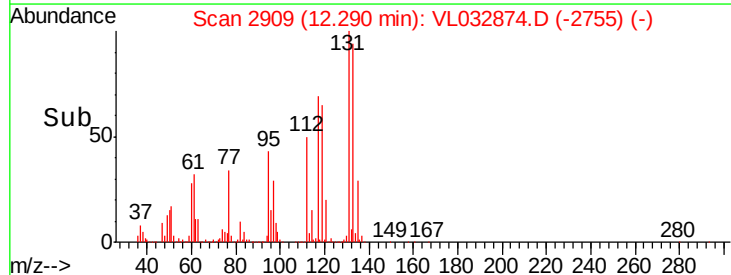
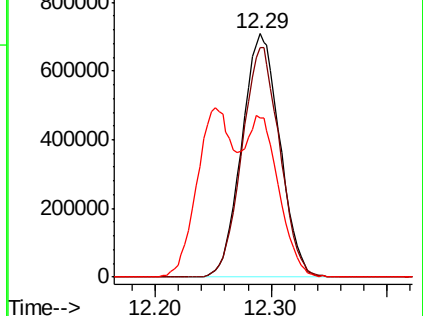


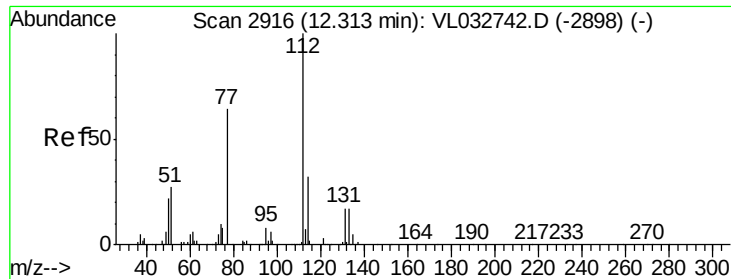
#56
1,1,1,2-Tetrachloroethane
Concen: 9.339 ppbv
RT: 12.29 min Scan# 2909
Delta R.T. -0.00 min
Lab File: VL032874.D
Acq: 4 Dec 2018 9:53

Tgt Ion	Ratio	Lower	Upper
131	100		
133	94.0	75.8	113.6
119	65.2	45.2	67.8



Abundance Ion 131.00 (130.70 to 131.70): V
800000
Ion 133.00 (132.70 to 133.70): V
Ion 119.00 (118.70 to 119.70): V





#57

Chlorobenzene

Concen: 9.125 ppbv

RT: 12.31 min Scan# 2915

Delta R.T. -0.00 min

Lab File: VL032874.D

Acq: 4 Dec 2018 9:53

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:112 Resp: 2587036

Ion Ratio Lower Upper

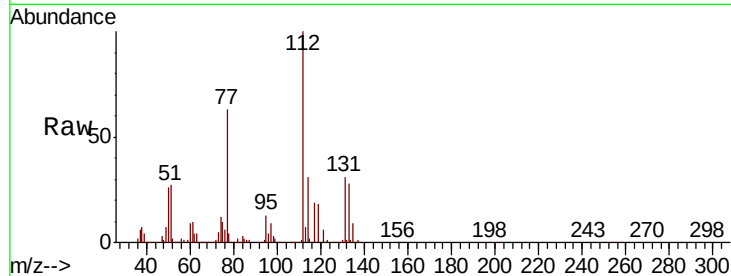
112 100

77 63.4 52.3 78.5

114 31.2 28.4 34.8

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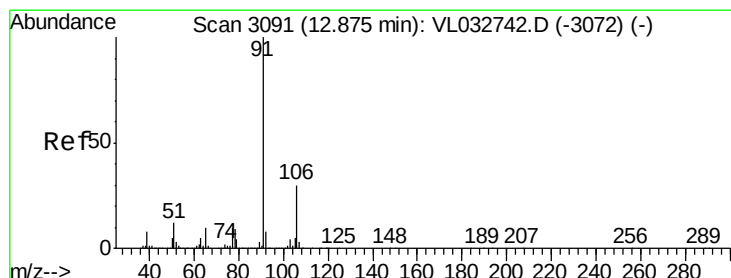
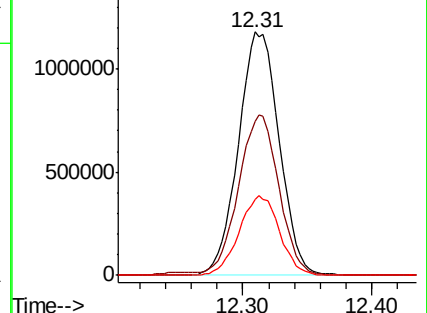
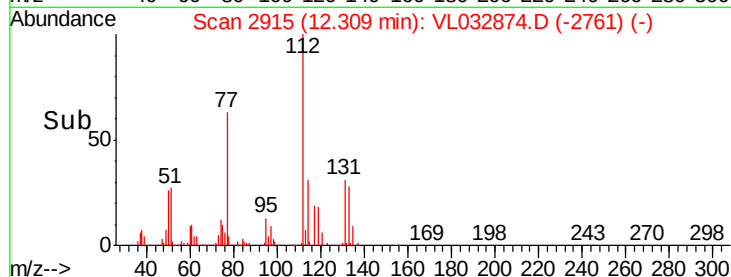
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Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 10.223 ppbv

RT: 12.88 min Scan# 3091

Delta R.T. -0.00 min

Lab File: VL032874.D

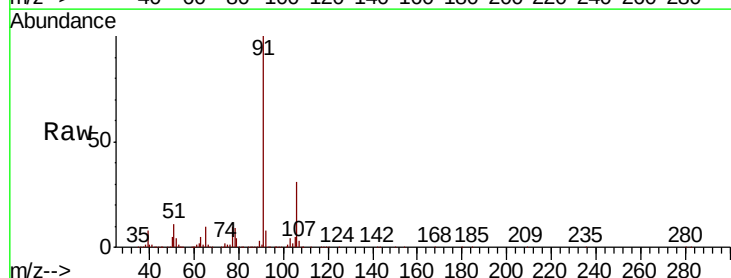
Acq: 4 Dec 2018 9:53

Tgt Ion: 91 Resp: 4556774

Ion Ratio Lower Upper

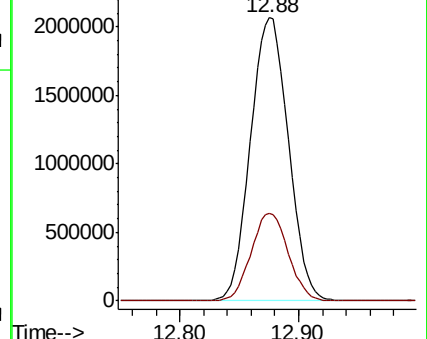
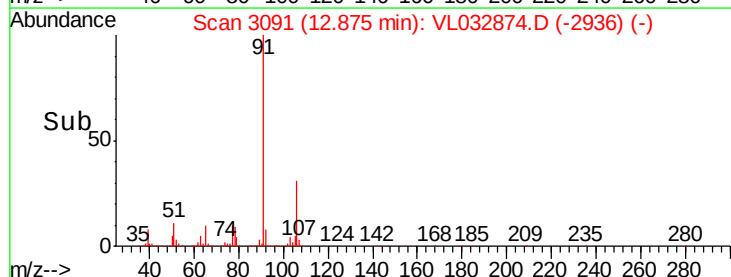
91 100

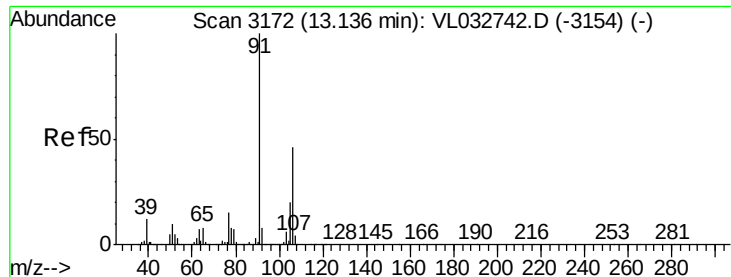
106 30.9 23.6 35.4



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





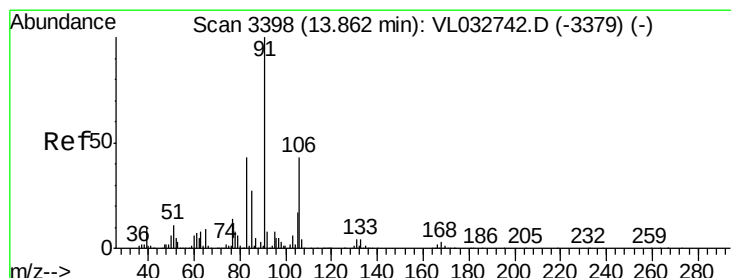
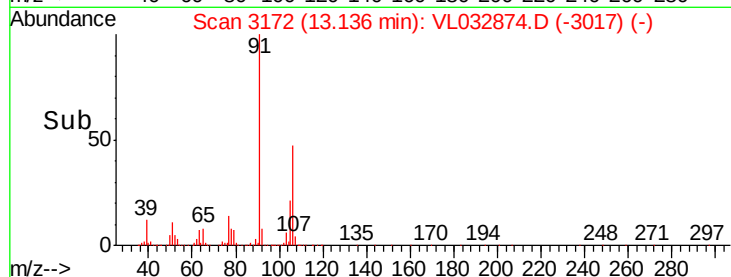
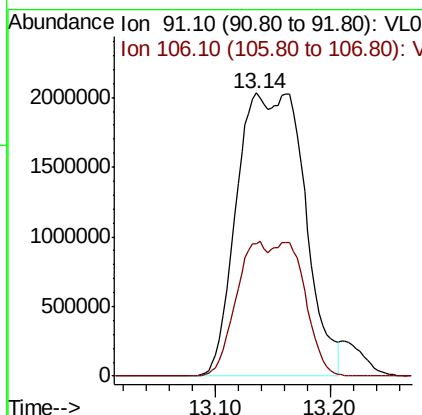
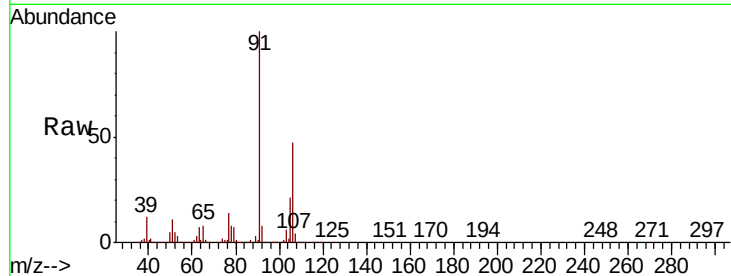
#59
m/p-Xylene
Concen: 20.864 ppbv m
RT: 13.14 min Scan# 3172
Delta R.T. -0.00 min
Lab File: VL032874.D
Acq: 4 Dec 2018 9:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 91 Resp: 8278509
Ion Ratio Lower Upper
91 100
106 46.1 36.1 54.1

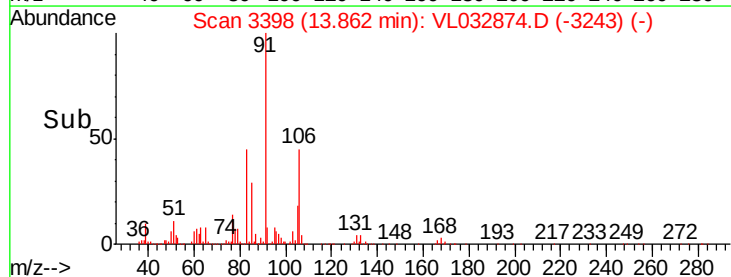
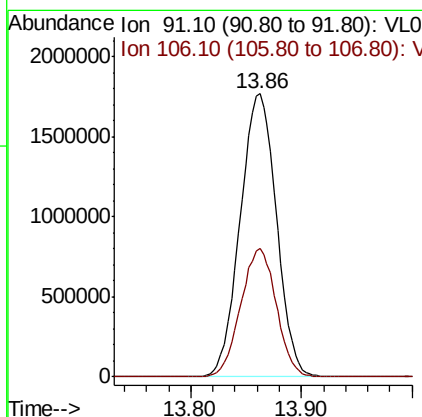
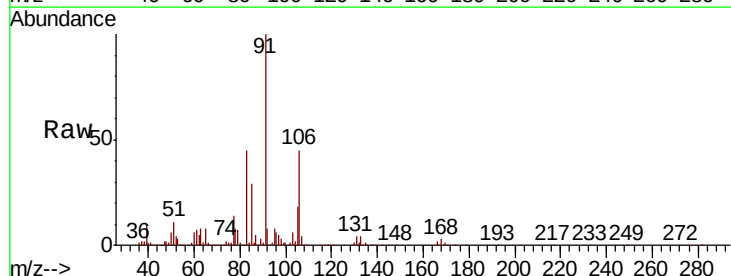
Manual Integrations
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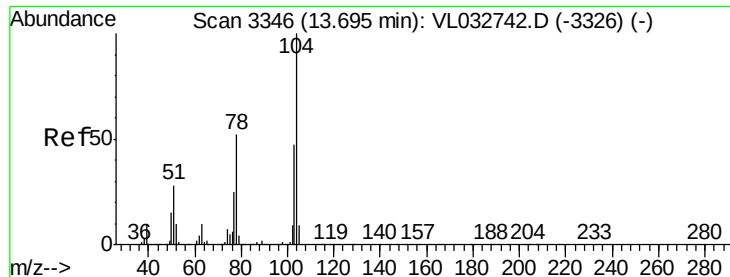
MMDadoda
12/10/2018 12:59:31 PM



#60
o-Xylene
Concen: 10.095 ppbv
RT: 13.86 min Scan# 3398
Delta R.T. -0.00 min
Lab File: VL032874.D
Acq: 4 Dec 2018 9:53

Tgt Ion: 91 Resp: 4027524
Ion Ratio Lower Upper
91 100
106 44.6 21.9 65.7





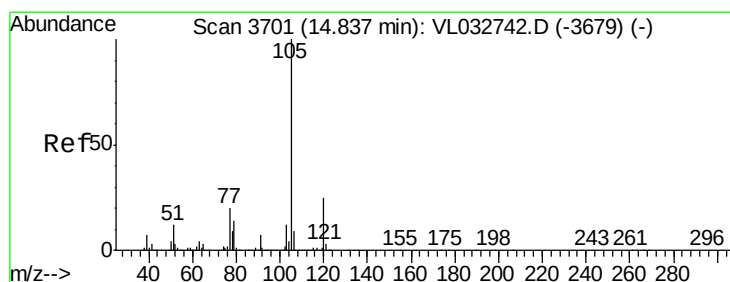
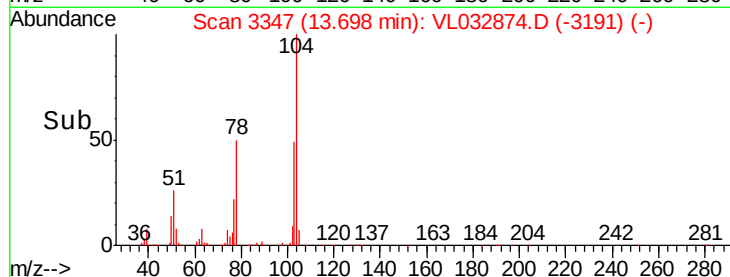
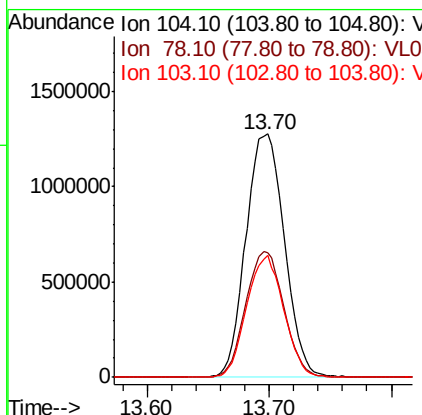
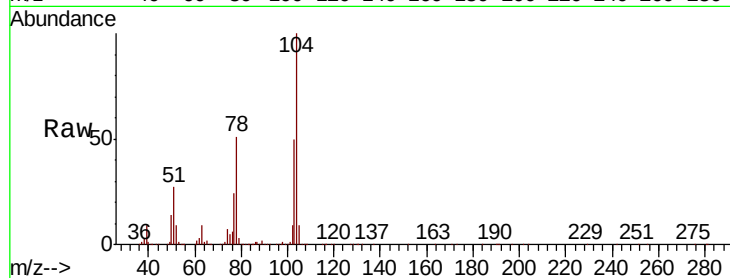
#61
Stvrene
Concen: 10.734 ppbv
RT: 13.70 min Scan# 3347
Delta R.T. 0.00 min
Lab File: VL032874.D
Acq: 4 Dec 2018 9:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
104	100		
78	51.3	42.2	63.4
103	48.2	38.2	57.2

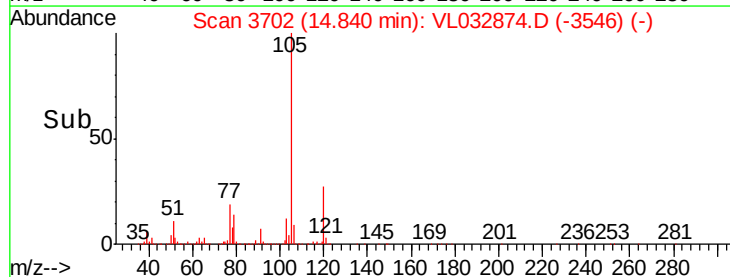
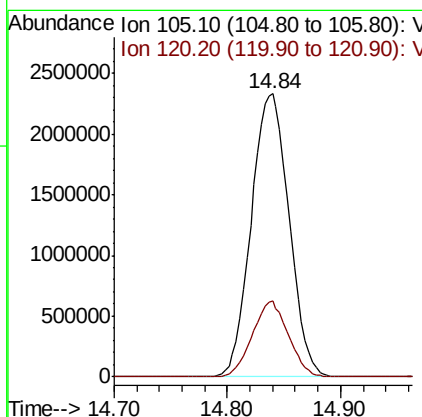
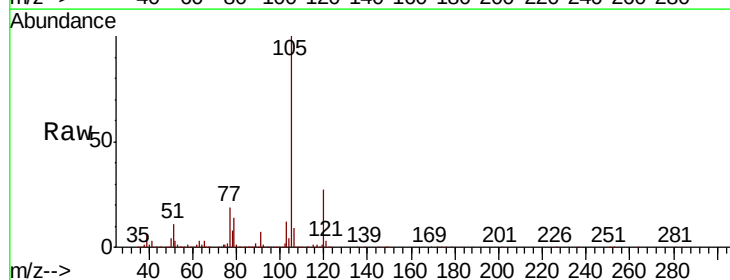
Manual Integrations
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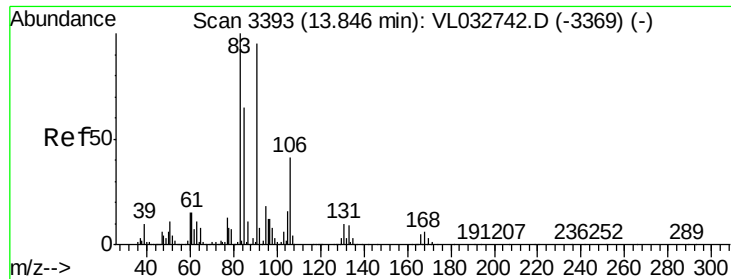
MMDadoda
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#62
Isopropylbenzene
Concen: 10.028 ppbv
RT: 14.84 min Scan# 3702
Delta R.T. 0.00 min
Lab File: VL032874.D
Acq: 4 Dec 2018 9:53

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.6	20.1	30.1





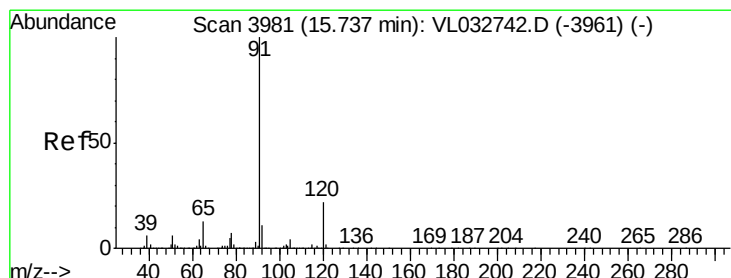
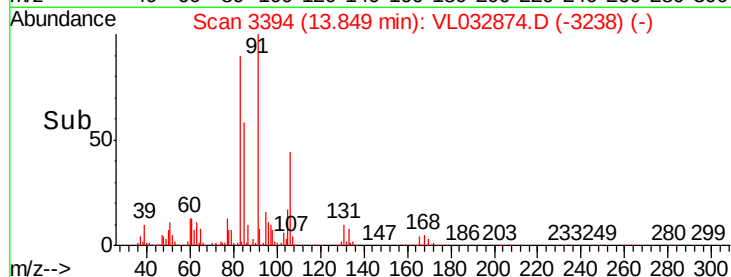
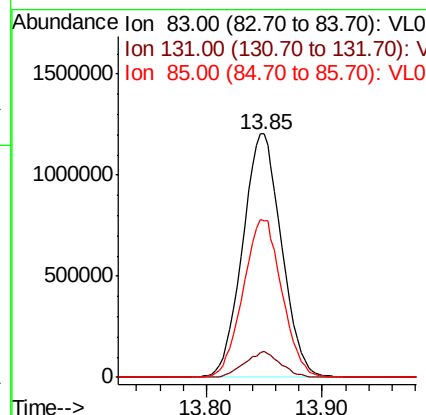
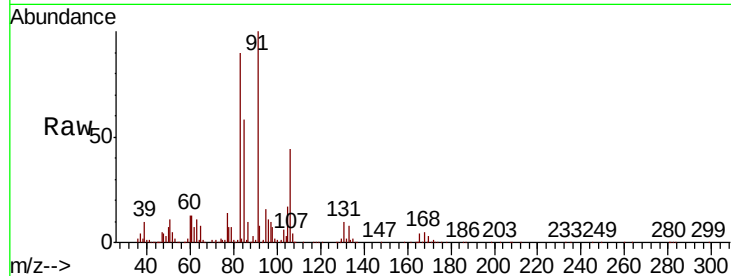
#63
 1,1,2,2-Tetrachloroethane
 Concen: 8.991 ppbv
 RT: 13.85 min Scan# 3394
 Delta R.T. 0.00 min
 Lab File: VL032874.D
 Acq: 4 Dec 2018 9:53

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion: 83 Resp: 2796346
 Ion Ratio Lower Upper
 83 100
 131 9.9 4.7 14.1
 85 65.0 32.5 97.4

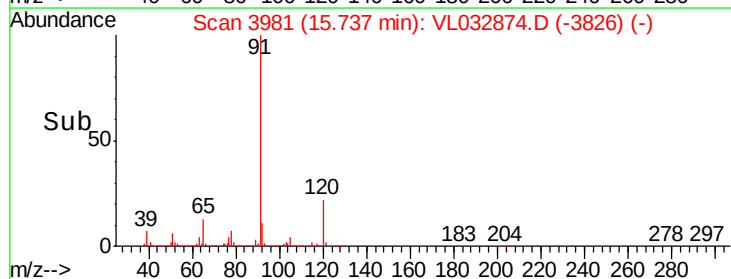
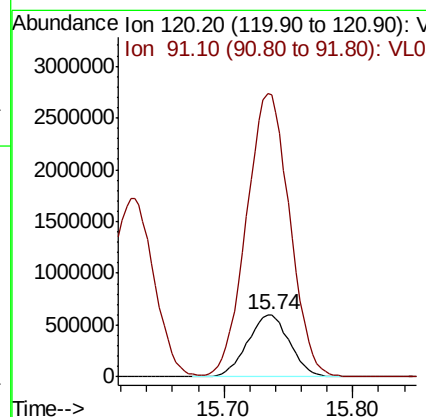
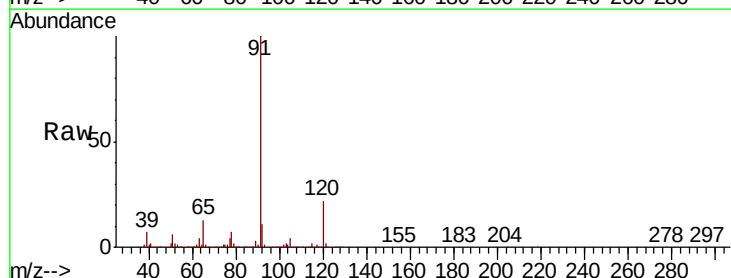
Manual Integrations
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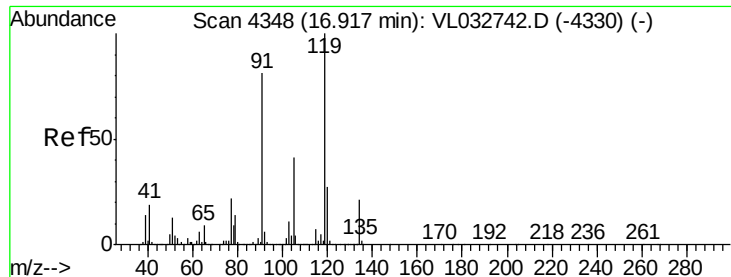
MMDadoda
 12/10/2018 12:59:31 PM



#64
 n-propylbenzene
 Concen: 9.627 ppbv
 RT: 15.74 min Scan# 3981
 Delta R.T. -0.00 min
 Lab File: VL032874.D
 Acq: 4 Dec 2018 9:53

Tgt Ion: 120 Resp: 1365533
 Ion Ratio Lower Upper
 120 100
 91 469.9 381.7 572.5





#65

tert-Butylbenzene

Concen: 9.877 ppbv

RT: 16.92 min Scan# 4350

Delta R.T. 0.01 min

Lab File: VL032874.D

Acq: 4 Dec 2018 9:53

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:119 Resp: 4774571

Ion Ratio Lower Upper

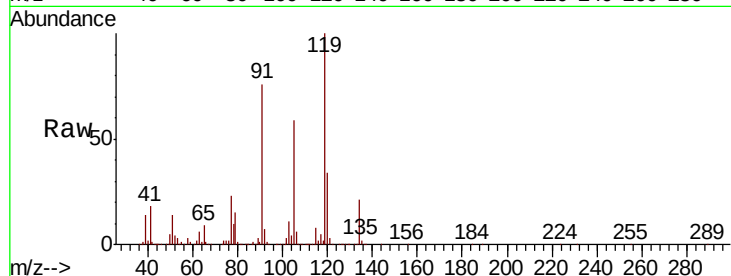
119 100

91 79.5 65.6 98.4

134 19.7 15.9 23.9

Manual Integrations
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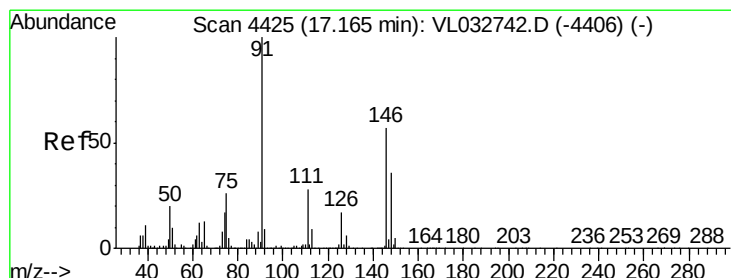
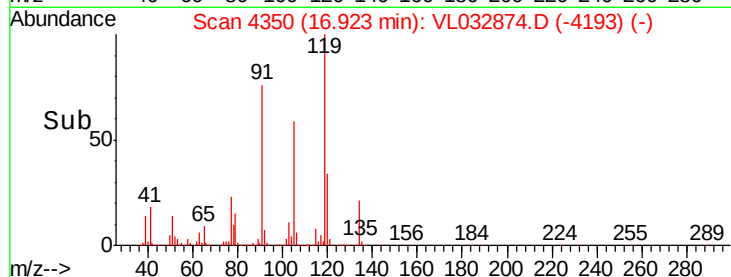
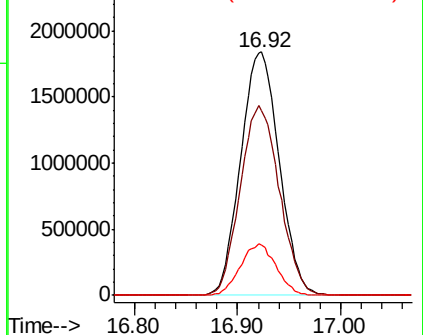
MMDadoda
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Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 10.042 ppbv

RT: 17.17 min Scan# 4427

Delta R.T. 0.01 min

Lab File: VL032874.D

Acq: 4 Dec 2018 9:53

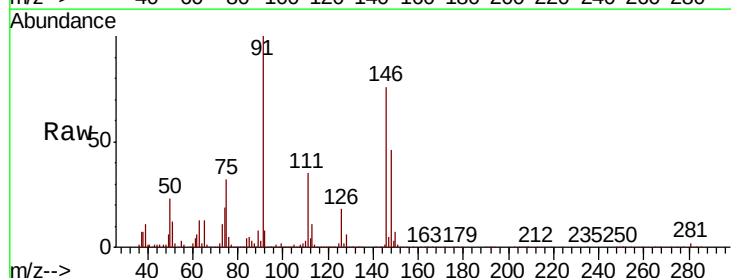
Tgt Ion: 91 Resp: 2683897

Ion Ratio Lower Upper

91 100

126 18.1 14.2 21.2

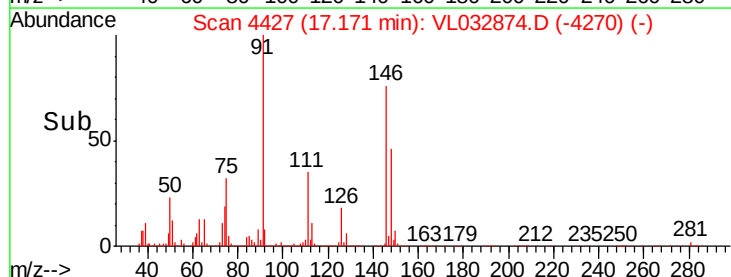
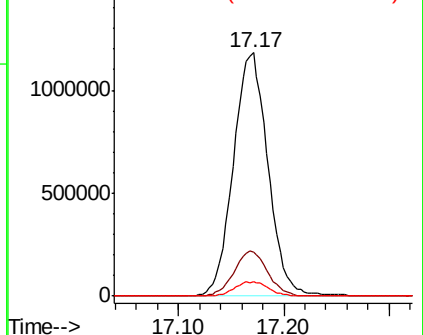
128 5.8 4.5 6.7

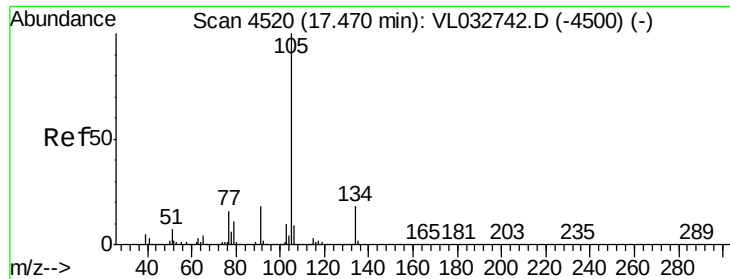


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 9.477 ppbv

RT: 17.47 min Scan# 4521

Delta R.T. 0.00 min

Lab File: VL032874.D

Acq: 4 Dec 2018 9:53

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 105 Resp: 6602321

Ion Ratio Lower Upper

105 100

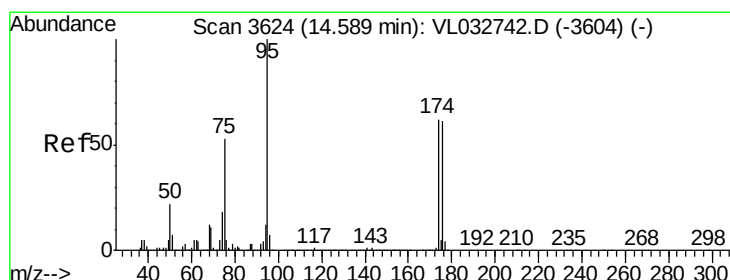
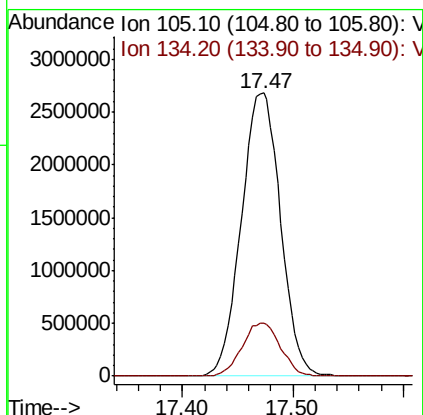
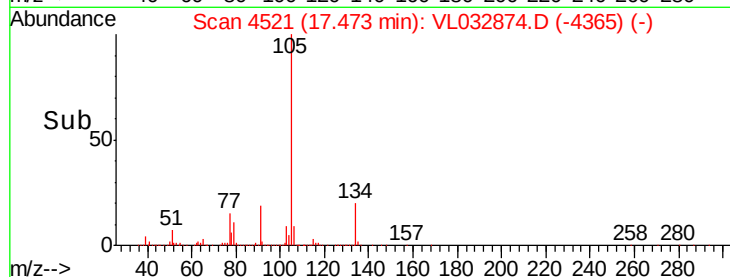
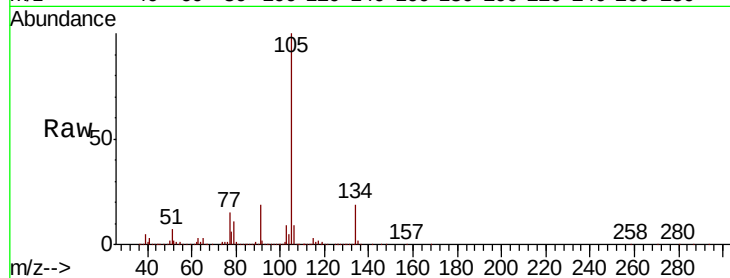
134 18.5 14.6 21.8

Manual Integrations

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#68

1-Bromo-4-Fluorobenzene

Concen: 9.049 ppbv

RT: 14.59 min Scan# 3624

Delta R.T. -0.00 min

Lab File: VL032874.D

Acq: 4 Dec 2018 9:53

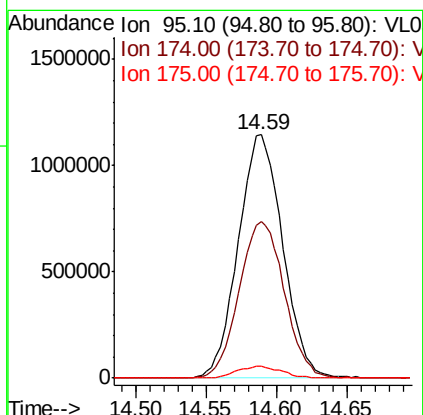
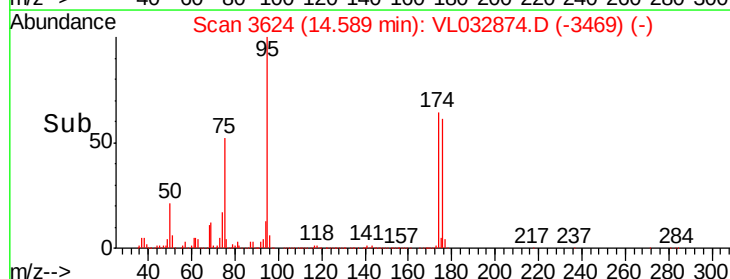
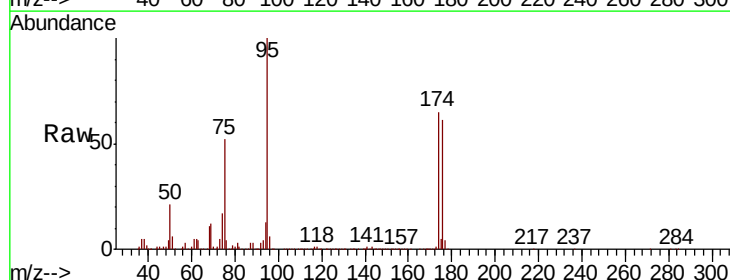
Tgt Ion: 95 Resp: 2506580

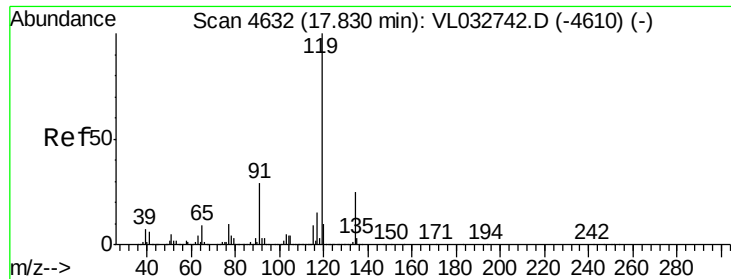
Ion Ratio Lower Upper

95 100

174 66.2 50.7 76.1

175 5.0 3.8 5.6





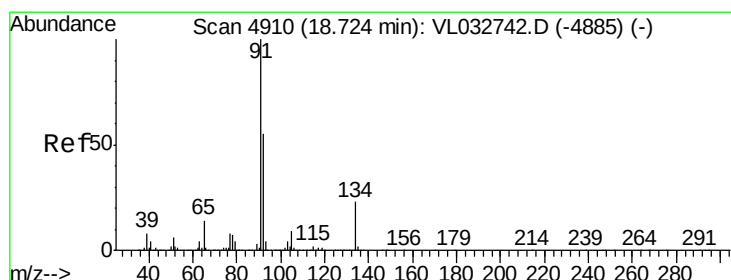
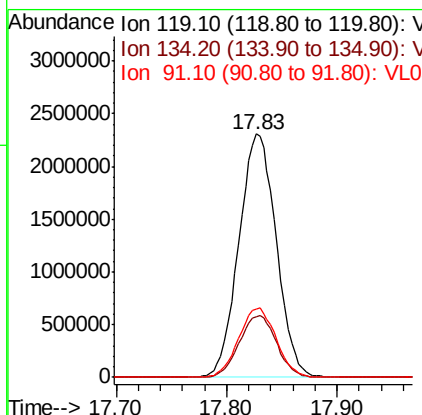
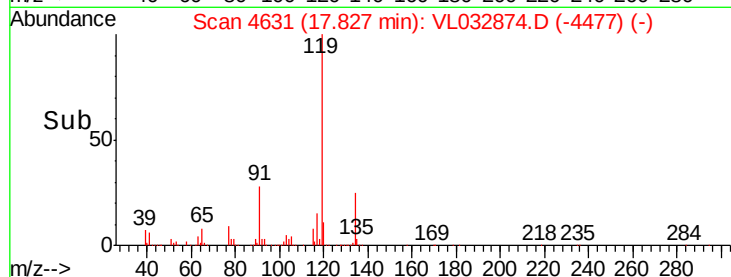
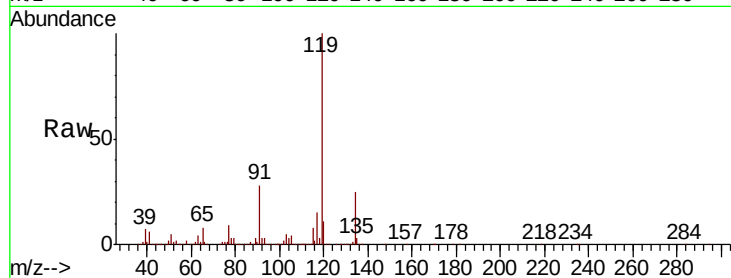
#69
p-Isopropyltoluene
Concen: 9.766 ppbv
RT: 17.83 min Scan# 4631
Delta R.T. -0.00 min
Lab File: VL032874.D
Acq: 4 Dec 2018 9:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.4	20.2	30.4
91	28.6	23.5	35.3

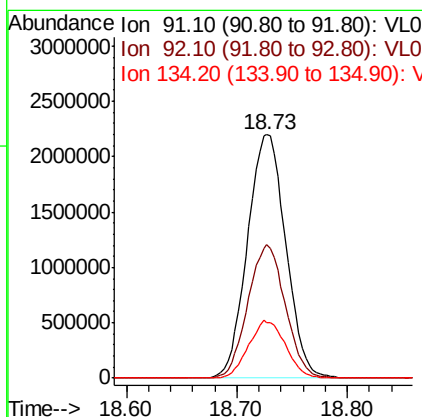
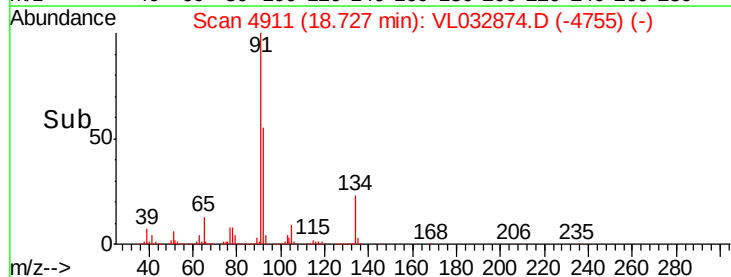
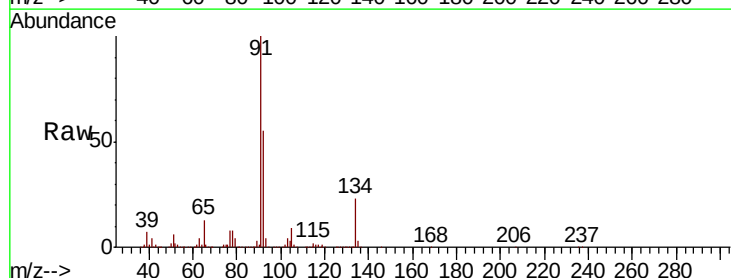
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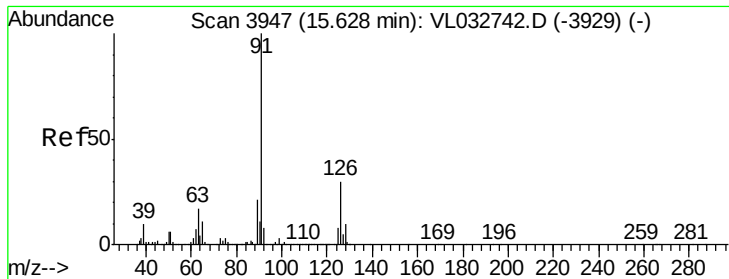
MMDadoda
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#70
n-Butylbenzene
Concen: 9.395 ppbv
RT: 18.73 min Scan# 4911
Delta R.T. 0.00 min
Lab File: VL032874.D
Acq: 4 Dec 2018 9:53

Tgt Ion	Ratio	Lower	Upper
91	100		
92	53.5	42.9	64.3
134	22.8	17.8	26.8





#71

2-Chlorotoluene

Concen: 9.831 ppbv

RT: 15.63 min Scan# 3947

Delta R.T. -0.00 min

Lab File: VL032874.D

Acq: 4 Dec 2018 9:53

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 91 Resp: 3953651

Ion Ratio Lower Upper

91 100

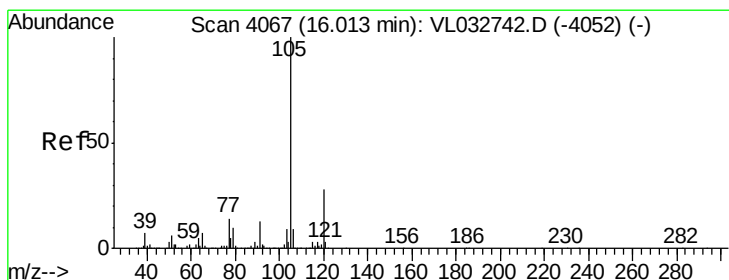
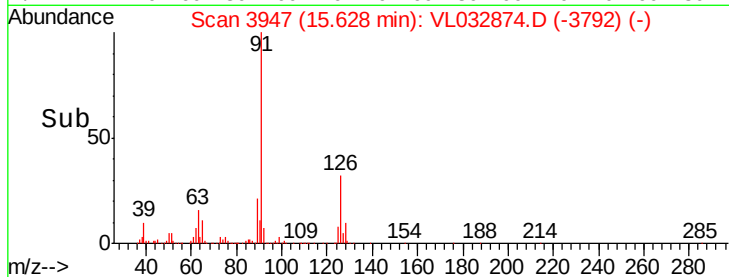
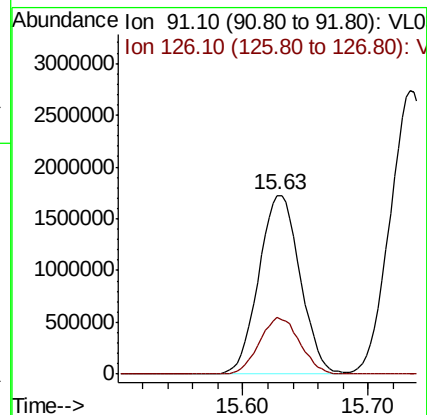
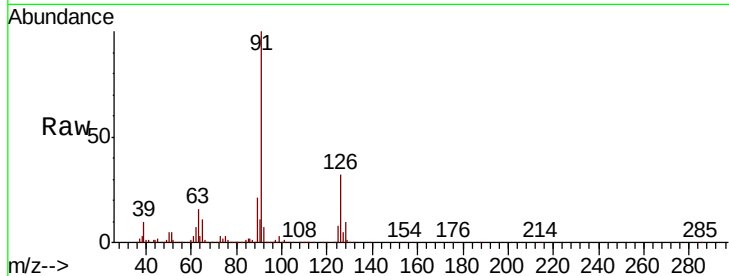
126 31.2 12.1 48.5

Manual Integrations

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#72

4-Ethyltoluene

Concen: 10.569 ppbv

RT: 16.01 min Scan# 4066

Delta R.T. -0.00 min

Lab File: VL032874.D

Acq: 4 Dec 2018 9:53

Tgt Ion: 105 Resp: 4621803

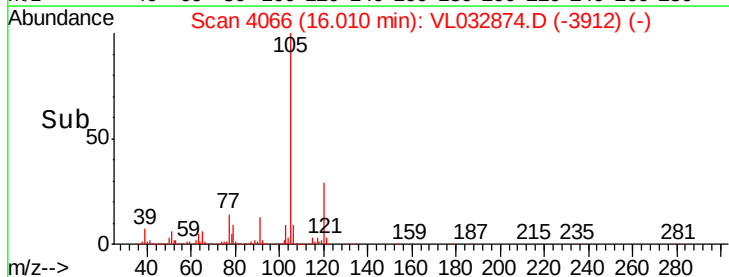
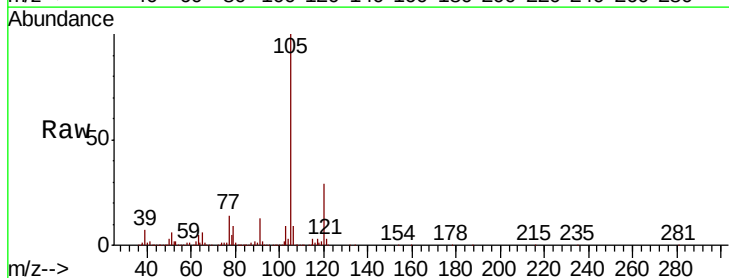
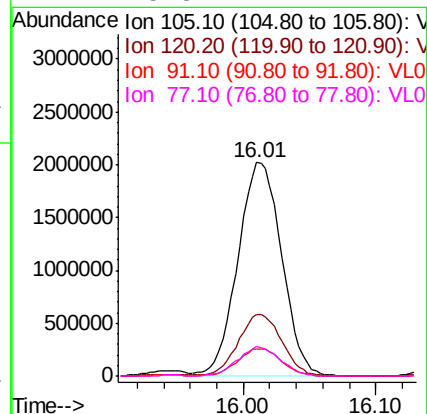
Ion Ratio Lower Upper

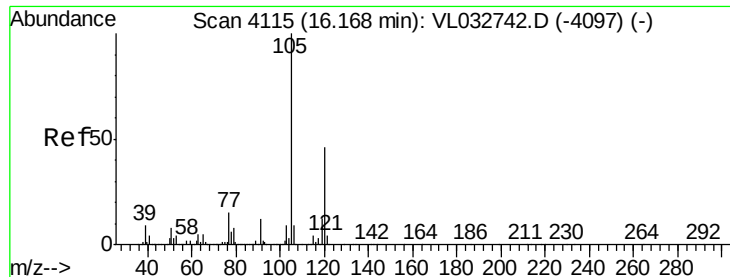
105 100

120 28.9 22.9 34.3

91 12.8 10.6 15.8

77 13.8 11.4 17.2





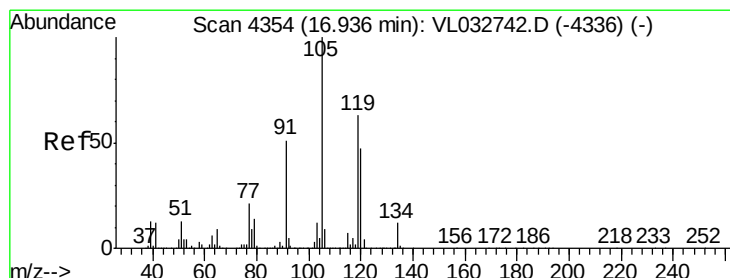
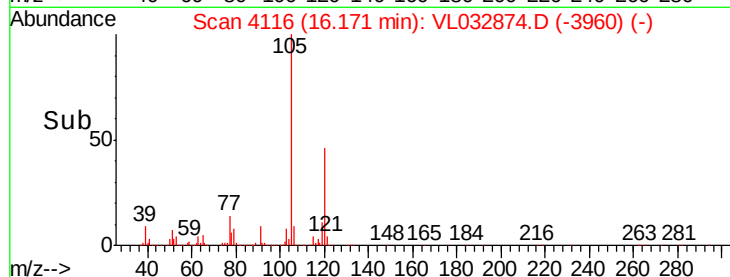
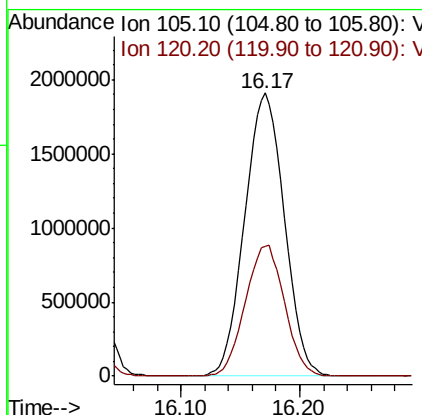
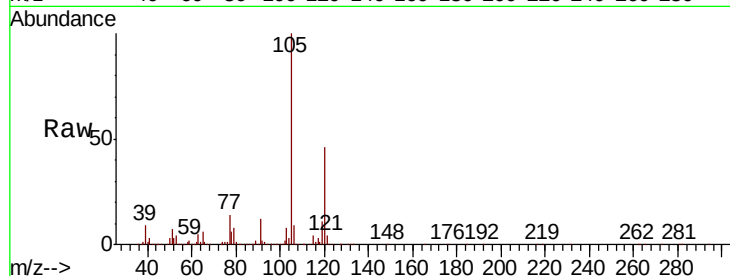
#73
 1,3,5-Trimethylbenzene
 Concen: 10.278 ppbv
 RT: 16.17 min Scan# 4116
 Delta R.T. 0.00 min
 Lab File: VL032874.D
 Acq: 4 Dec 2018 9:53

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion:105 Resp: 4394444
 Ion Ratio Lower Upper
 105 100
 120 45.7 36.6 55.0

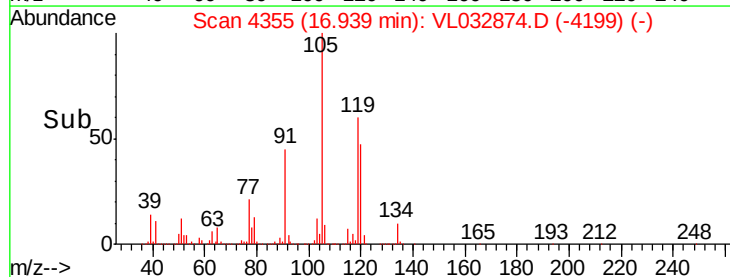
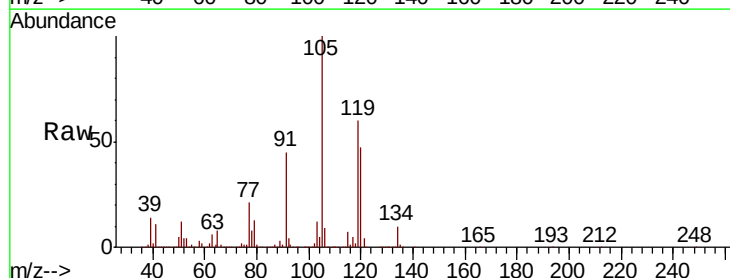
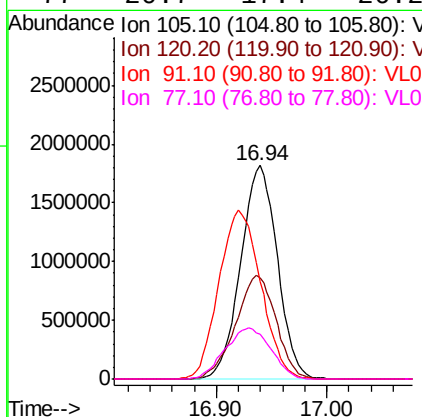
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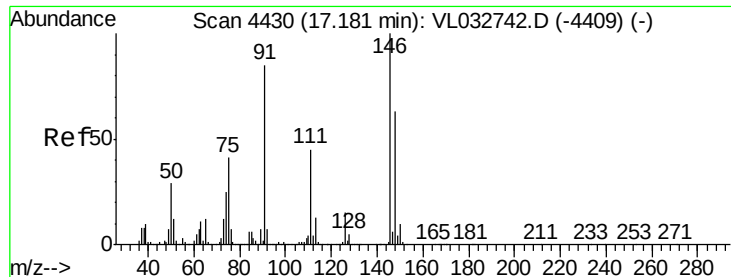
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#74
 1,2,4-Trimethylbenzene
 Concen: 9.139 ppbv
 RT: 16.94 min Scan# 4355
 Delta R.T. 0.00 min
 Lab File: VL032874.D
 Acq: 4 Dec 2018 9:53

Tgt Ion:105 Resp: 4181387
 Ion Ratio Lower Upper
 105 100
 120 47.2 37.6 56.4
 91 45.3 42.5 63.7
 77 20.7 17.4 26.2





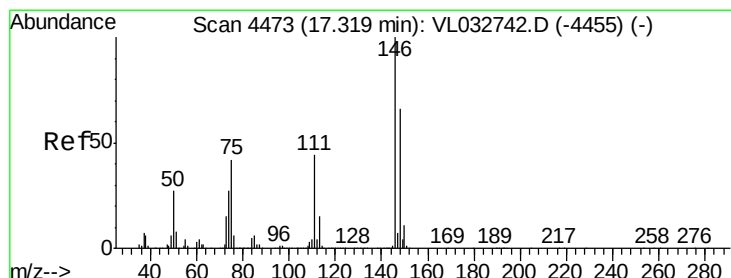
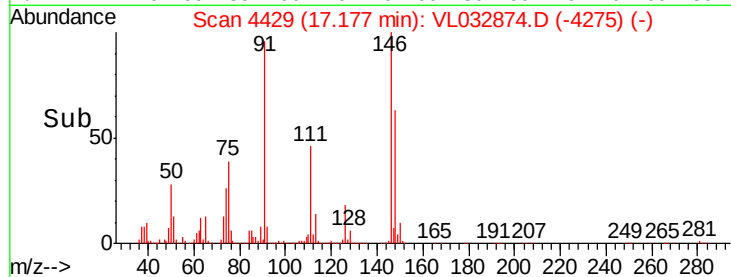
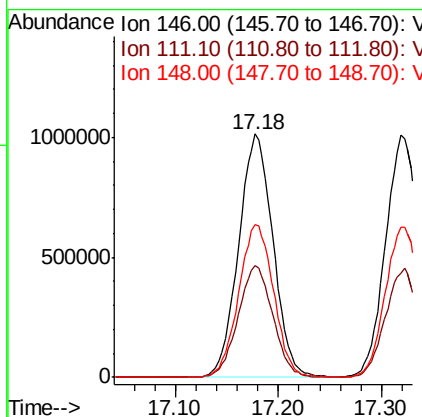
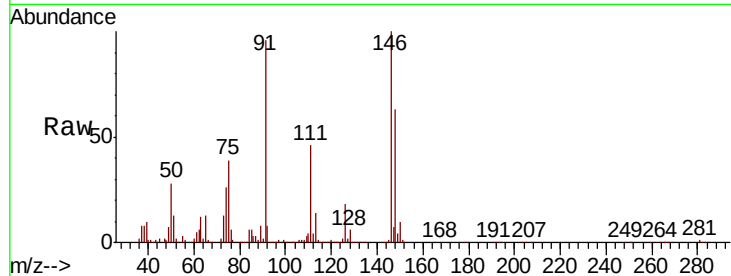
#75
 1,3-Dichlorobenzene
 Concen: 8.958 ppbv
 RT: 17.18 min Scan# 4429
 Delta R.T. -0.00 min
 Lab File: VL032874.D
 Acq: 4 Dec 2018 9:53

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
146	100		
111	46.4	23.5	70.6
148	64.0	31.8	95.3

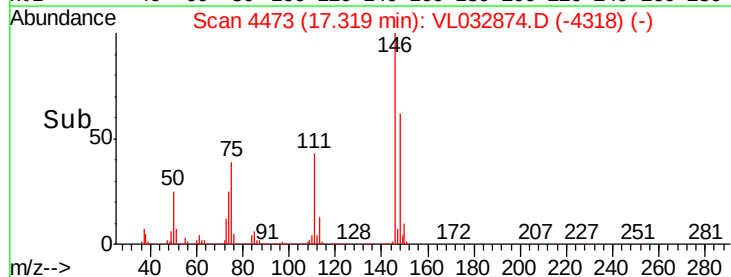
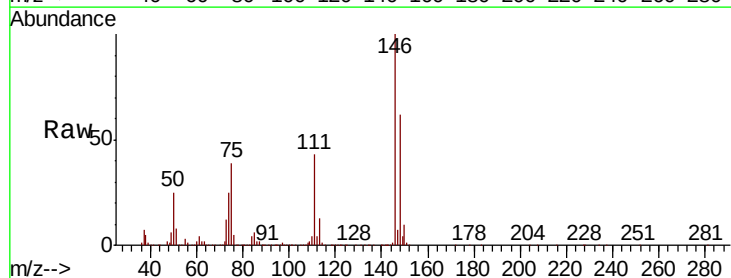
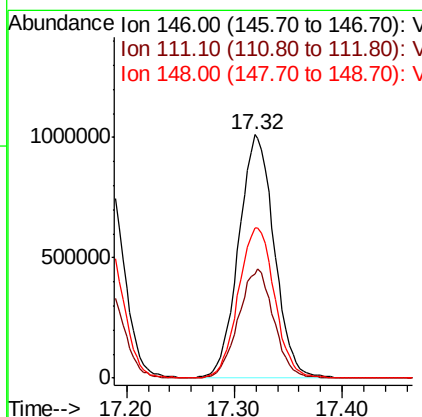
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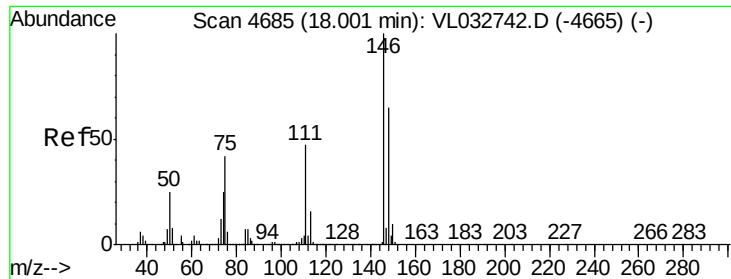
MMDadoda
 12/10/2018 12:59:31 PM



#76
 1,4-Dichlorobenzene
 Concen: 9.404 ppbv
 RT: 17.32 min Scan# 4473
 Delta R.T. -0.00 min
 Lab File: VL032874.D
 Acq: 4 Dec 2018 9:53

Tgt Ion	Ratio	Lower	Upper
146	100		
111	45.0	22.5	67.5
148	63.4	32.5	97.5





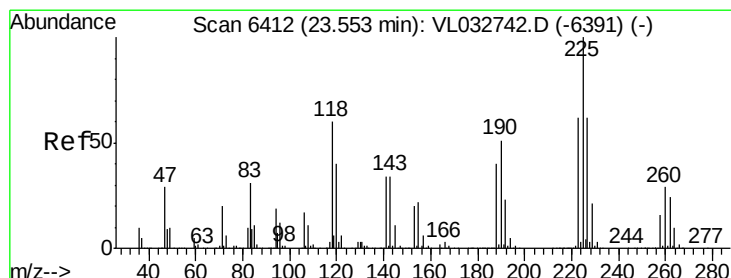
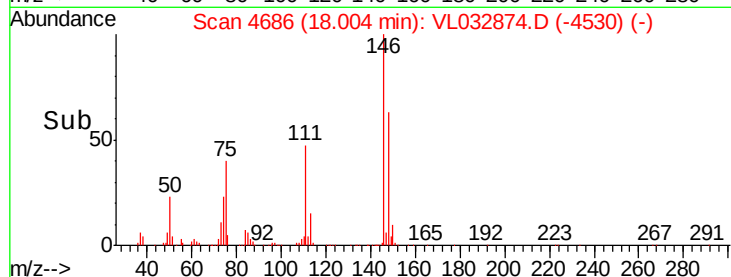
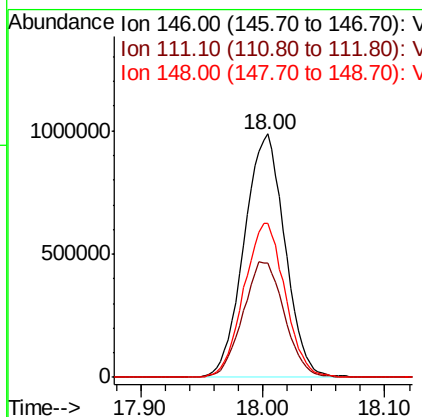
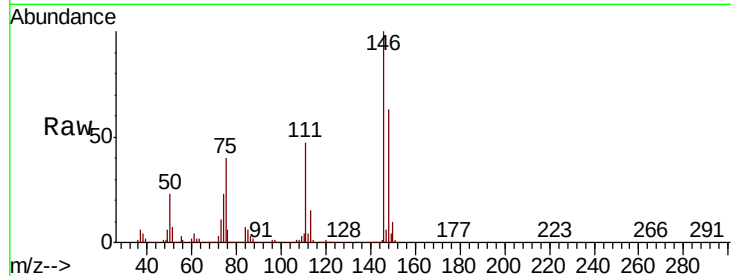
#77
 1,2-Dichlorobenzene
 Concen: 9.373 ppbv
 RT: 18.00 min Scan# 4686
 Delta R.T. 0.00 min
 Lab File: VL032874.D
 Acq: 4 Dec 2018 9:53

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
146	100		
111	48.5	24.4	73.2
148	64.1	32.2	96.6

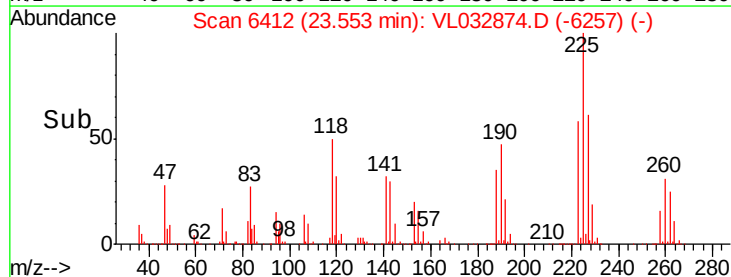
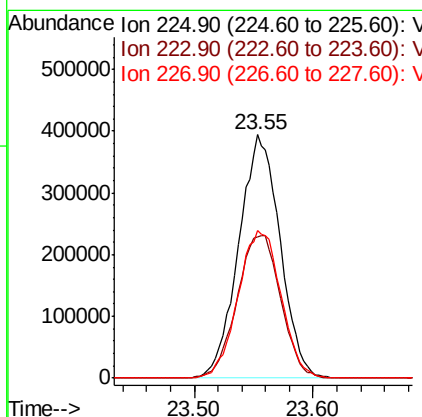
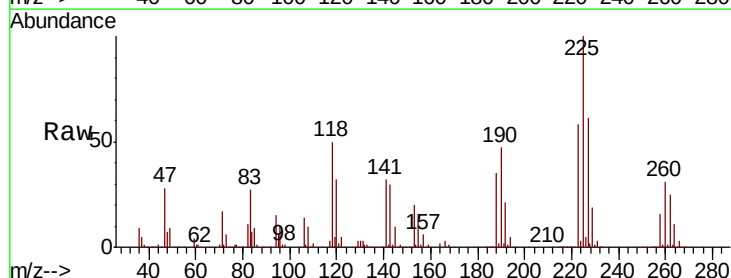
Manual Integrations
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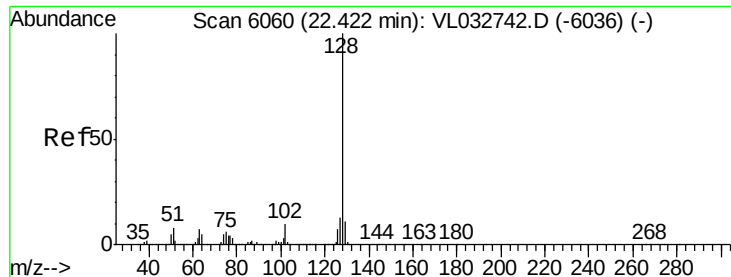
MMDadoda
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#78
 Hexachloro-1,3-Butadiene
 Concen: 7.196 ppbv
 RT: 23.55 min Scan# 6412
 Delta R.T. -0.00 min
 Lab File: VL032874.D
 Acq: 4 Dec 2018 9:53

Tgt Ion	Ratio	Lower	Upper
225	100		
223	62.3	50.3	75.5
227	63.3	50.2	75.4





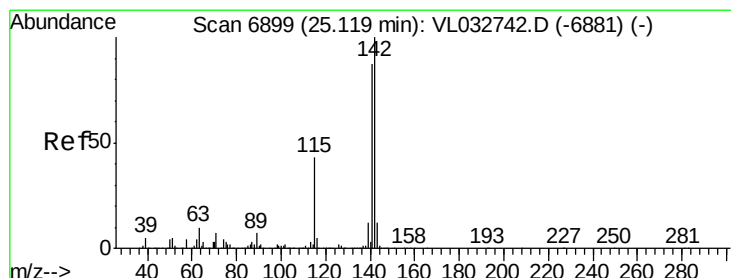
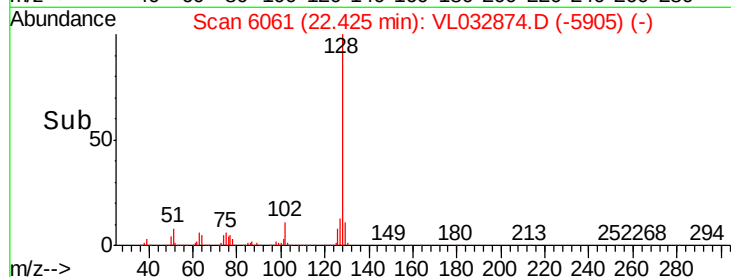
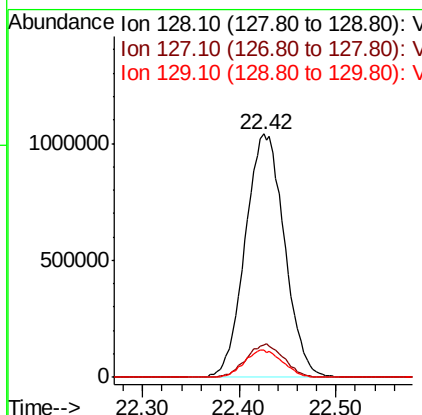
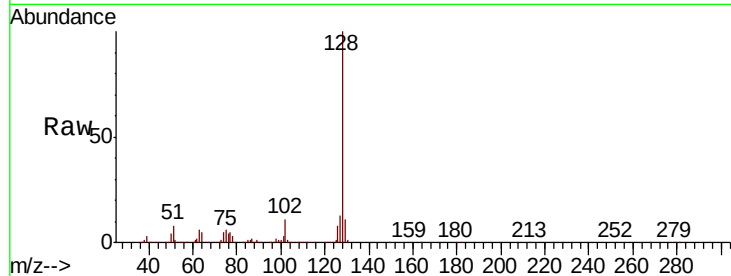
#79
Naphthalene
Concen: 9.744 ppbv
RT: 22.42 min Scan# 6061
Delta R.T. 0.00 min
Lab File: VL032874.D
Acq: 4 Dec 2018 9:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.2	10.1	15.1
129	11.2	8.9	13.3

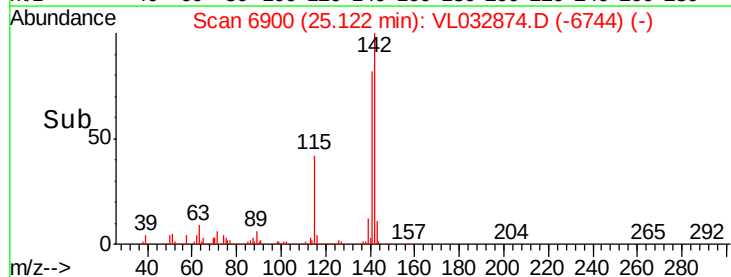
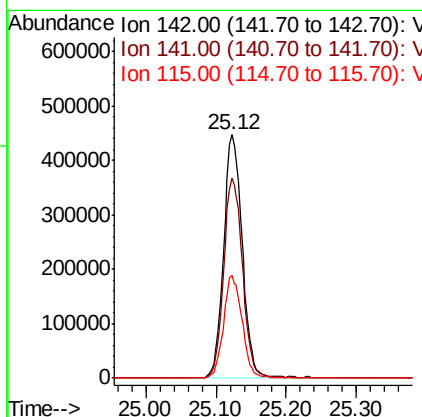
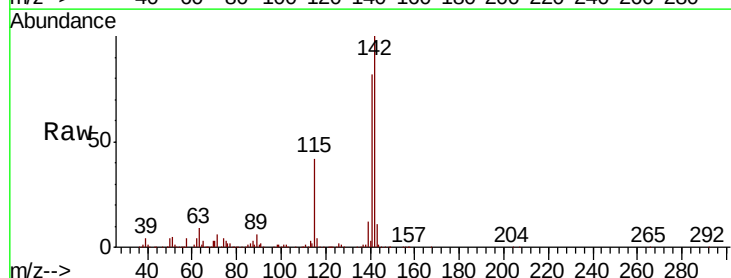
Manual Integrations
APPROVED

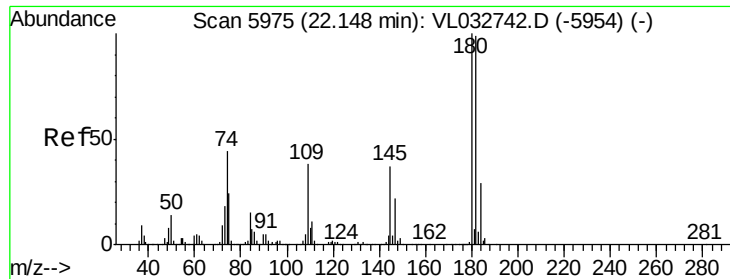
MMDadoda
12/10/2018 12:59:31 PM



#80
Naphthalene, 2-methyl-
Concen: 10.972 ppbv
RT: 25.12 min Scan# 6900
Delta R.T. 0.00 min
Lab File: VL032874.D
Acq: 4 Dec 2018 9:53

Tgt Ion	Ratio	Lower	Upper
142	100		
141	83.5	68.7	103.1
115	42.5	35.5	53.3





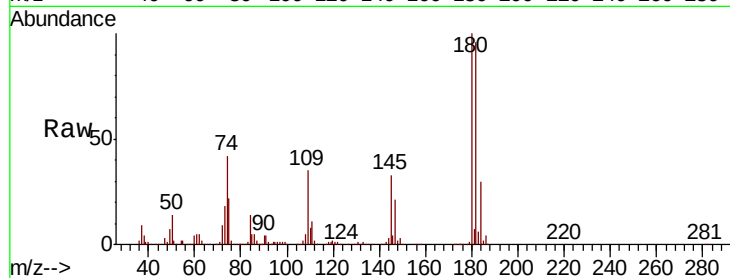
#81
 1,2,4-Trichlorobenzene
 Concen: 10.713 ppbv
 RT: 22.15 min Scan# 5975
 Delta R.T. -0.00 min
 Lab File: VL032874.D
 Acq: 4 Dec 2018 9:53

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
180	100		
182	94.7	77.3	115.9
184	30.2	24.2	36.4

Manual Integrations
 APPROVED

MMDadoda
 12/10/2018 12:59:31 PM



Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 184.00 (183.70 to 184.70): V

