

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL062619\
 Data File : VL033987.D
 Acq On : 27 Jun 2019 9:44
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 6/27/2019 3:02:44 PM

Quant Time: Jun 27 14:33:07 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL060719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 0
 QLast Update : Fri Jun 07 08:53:27 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.74	49	765359	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.27	114	1756869	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.21	117	1997622	10.00	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.55	95	1668479	10.17	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.70%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.06	85	976626	7.864	ppbv 99
3) Chlorodifluoromethane	3.00	51	951648	10.562	ppbv 98
4) Chloromethane	3.15	50	513331	9.988	ppbv 99
5) Vinyl Chloride	3.27	62	536118	11.243	ppbv 99
6) Bromomethane	3.49	94	343483	10.842	ppbv 90
7) Chloroethane	3.58	64	202443	10.735	ppbv 99
8) Dichlorotetrafluoroethane	3.20	85	1431460	10.785	ppbv 99
9) Propene	3.02	41	366682	10.876	ppbv 100
10) Heptane	8.22	43	1054690	12.377	ppbv 100
11) Trichlorofluoromethane	3.98	101	1907708	11.905	ppbv 94
12) 1,1,2-Trichlorotrifluoroet	4.53	101	1266344	11.693	ppbv 99
13) Ethanol	3.63	45	86971	7.929	ppbv 100
14) Bromoethene	3.77	108	463432	11.484	ppbv 99
15) Acetone	3.88	43	1204152	10.788	ppbv 98
16) 1,3-Butadiene	3.35	39	495182	11.655	ppbv 97
17) tert-Butyl alcohol	4.33	59	1030128	11.805	ppbv 99
18) 1,1-Dichloroethene	4.33	96	543752	11.887	ppbv 97
19) Isopropyl Alcohol	4.00	45	754012	11.824	ppbv 99
20) Methylene Chloride	4.39	84	468225	10.756	ppbv 99
21) Allyl Chloride	4.45	41	780031	12.302	ppbv 97
22) trans-1,2-Dichloroethene	4.94	96	569970	11.820	ppbv 98
23) Vinyl Acetate	5.13	43	1503586	11.589	ppbv 99
24) 1,1-Dichloroethane	5.07	63	1099317	10.894	ppbv 99
25) Ethyl Acetate	5.74	43	1929936	11.353	ppbv 99
26) Hexane	5.75	57	841498	10.872	ppbv 99
27) Carbon Disulfide	4.60	76	1384868	12.879	ppbv 100
28) Methyl tert-Butyl Ether	5.09	73	1362220	11.639	ppbv 100
29) Chloroform	5.82	83	1494374	11.273	ppbv 98
30) Cyclohexane	7.22	84	681675	12.465	ppbv 99
31) cis-1,2-Dichloroethene	5.62	61	839245	12.365	ppbv 99
32) 1,1,1-Trichloroethane	6.59	97	1571216	12.287	ppbv 99
34) 2-Butanone	5.31	43	1194577	12.053	ppbv 99
35) Carbon Tetrachloride	7.11	117	1712965	12.620	ppbv 98
36) Benzene	6.98	78	1634040	12.176	ppbv 98
37) 1,2-Dichloroethane	6.39	62	1168832	11.776	ppbv 100
38) Trichloroethene	7.93	130	724020	13.856	ppbv 98
39) 1,2-Dichloropropane	7.71	63	616301	11.899	ppbv 93
40) 1,4-Dioxane	7.93	88	230285	10.901	ppbv # 1
41) Tetrahydrofuran	6.12	42	639667	12.716	ppbv 99
42) Bromodichloromethane	7.89	83	1639249	12.359	ppbv 97
43) Methyl Methacrylate	8.11	69	674421	13.437	ppbv 97

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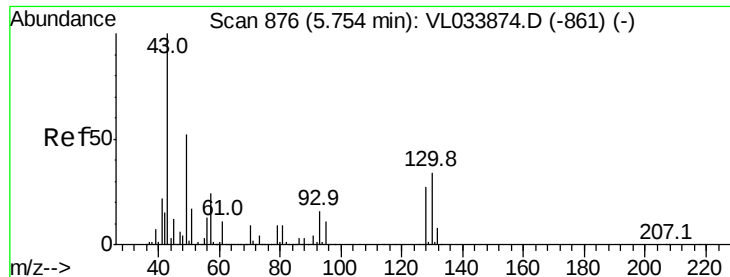
Manual Integrations
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Quant Time: Jun 27 14:33:07 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL060719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 0
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.96	57	2917868	12.226	ppbv	99
45) t-1,3-Dichloropropene	9.39	75	937920	14.241	ppbv	100
46) cis-1,3-Dichloropropene	8.81	75	1056345	14.000	ppbv	96
47) 1,1,2-Trichloroethane	9.59	97	727801	11.787	ppbv	97
48) Dibromochloromethane	10.43	129	1441507	12.990	ppbv	99
49) Bromoform	13.17	173	1424355	14.540	ppbv	100
50) 4-Methyl-2-Pentanone	8.84	43	1865504	12.622	ppbv	99
51) 2-Hexanone	10.24	43	1526320	13.225	ppbv	99
52) Tetrachloroethene	11.34	164	668918	14.165	ppbv	96
53) Toluene	9.92	91	1996080	13.440	ppbv	100
54) 1,2-Dibromoethane	10.73	107	1166495	12.532	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.25	131	983476	11.270	ppbv	99
57) Chlorobenzene	12.27	112	1635365	10.931	ppbv	98
58) Ethyl Benzene	12.84	91	3094509	13.740	ppbv	99
59) m/p-Xylene	13.12	91	5366125m	26.201	ppbv	
60) o-Xylene	13.82	91	2742382	12.969	ppbv	99
61) Styrene	13.66	104	1924039	14.060	ppbv	98
62) Isopropylbenzene	14.80	105	3634985	12.754	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.81	83	1934380	12.152	ppbv	99
64) n-propylbenzene	15.70	120	954262	13.075	ppbv	98
65) tert-Butylbenzene	16.88	119	3477811	13.188	ppbv	99
66) Benzyl Chloride	17.13	91	1839094	13.761	ppbv	99
67) sec-Butylbenzene	17.43	105	4812367	13.008	ppbv	100
69) p-Isopropyltoluene	17.79	119	4025184	13.076	ppbv	99
70) n-Butylbenzene	18.69	91	4227203	12.538	ppbv	100
71) 2-Chlorotoluene	15.59	91	2793000	13.302	ppbv	100
72) 4-Ethyltoluene	15.97	105	3257844	13.539	ppbv	99
73) 1,3,5-Trimethylbenzene	16.13	105	3161984	13.340	ppbv	97
74) 1,2,4-Trimethylbenzene	16.90	105	3383288	12.384	ppbv	96
75) 1,3-Dichlorobenzene	17.14	146	1943679	11.361	ppbv	100
76) 1,4-Dichlorobenzene	17.28	146	1889188	12.026	ppbv	99
77) 1,2-Dichlorobenzene	17.96	146	1860081	11.781	ppbv	99
78) Hexachloro-1,3-Butadiene	23.51	225	1313346	10.650	ppbv	99
79) Naphthalene	22.37	128	2373885	10.871	ppbv	99
80) Naphthalene, 2-methyl-	25.09	142	863450	9.910	ppbv #	93
81) 1,2,4-Trichlorobenzene	22.10	180	1429677	10.370	ppbv	100

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.74 min Scan# 871

Delta R.T. -0.02 min

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MSVOA_L

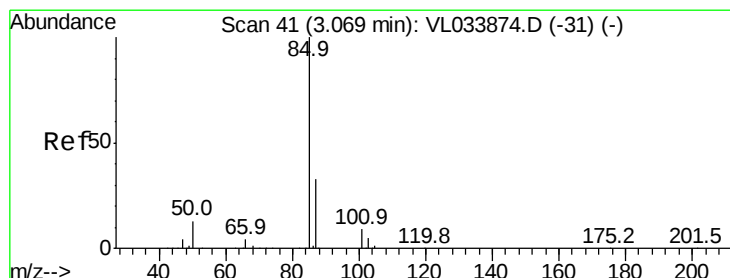
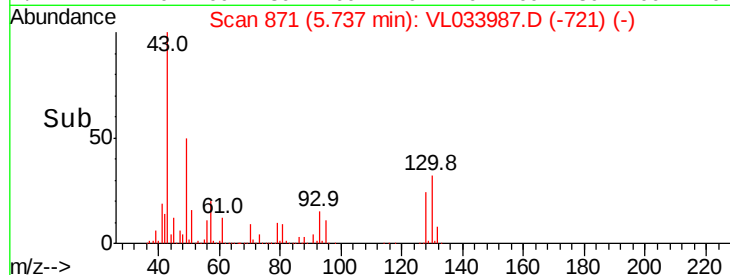
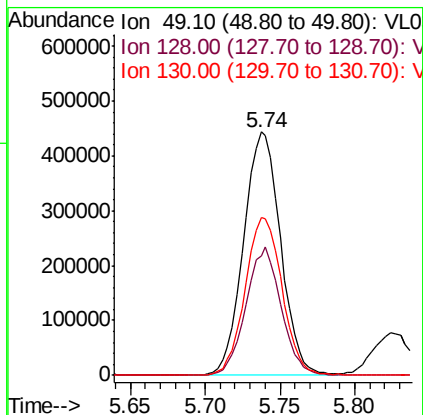
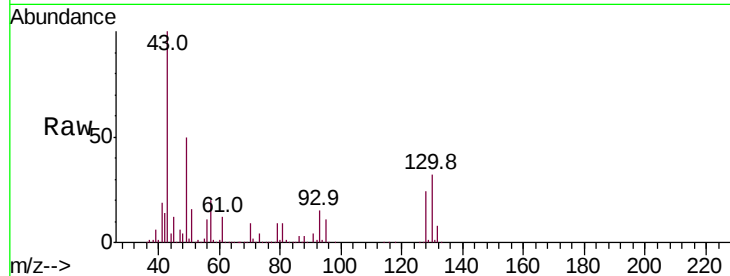
ClientSampleId :

VSTDCCC010EC

Tot Ion:	49	Resp:	765359
Ion Ratio	Lower	Upper	
49	100		
128	50.1	25.5	76.5
130	64.7	32.5	97.4

Manual Integrations
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#2

Dichlorodifluoromethane

Concen: 7.864 ppbv

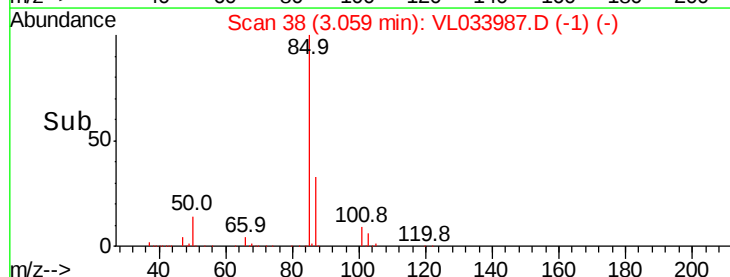
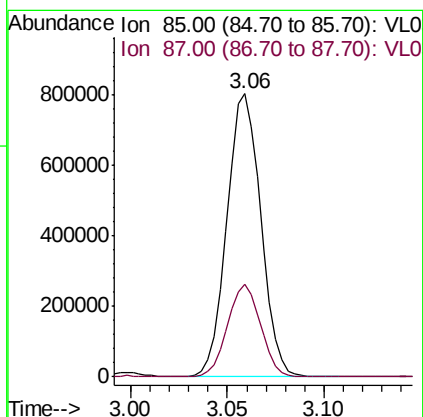
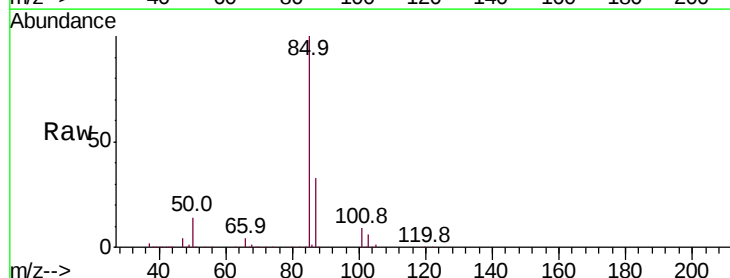
RT: 3.06 min Scan# 38

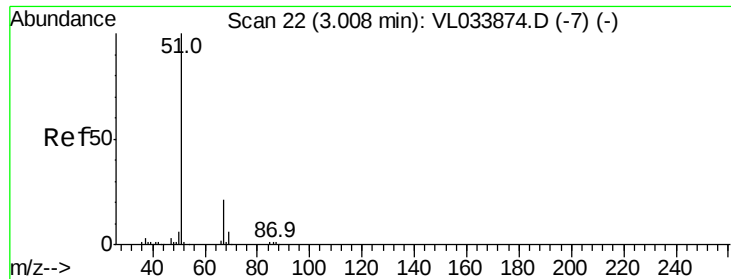
Delta R.T. -0.01 min

Lab File: VL033987.D

Acq: 27 Jun 2019 9:44

Tgt Ion:	85	Resp:	976626
Ion Ratio	Lower	Upper	
85	100		
87	32.8	26.6	40.0





#3

Chlorodifluoromethane

Concen: 10.562 ppbv

RT: 3.00 min Scan# 19

Delta R.T. -0.01 min

Lab File: VL033987.D

Acq: 27 Jun 2019 9:44

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 51 Resp: 951648

Ion Ratio Lower Upper

51 100

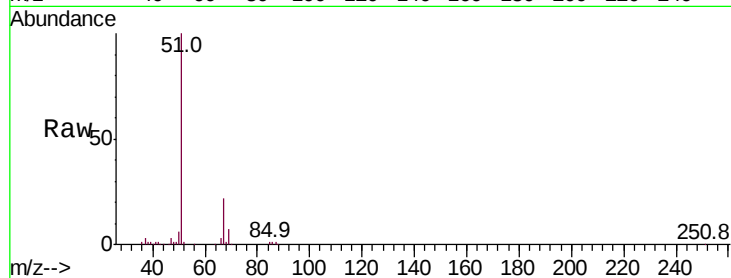
67 21.7 16.4 24.6

Manual Integrations

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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0

3.00

800000

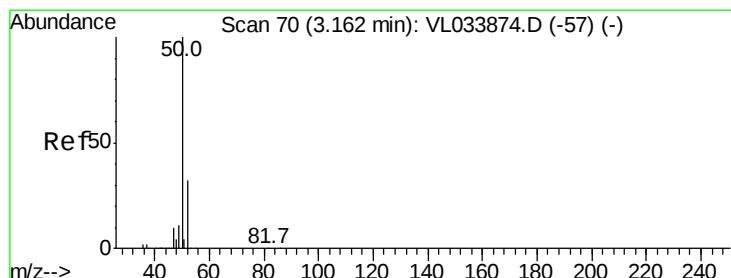
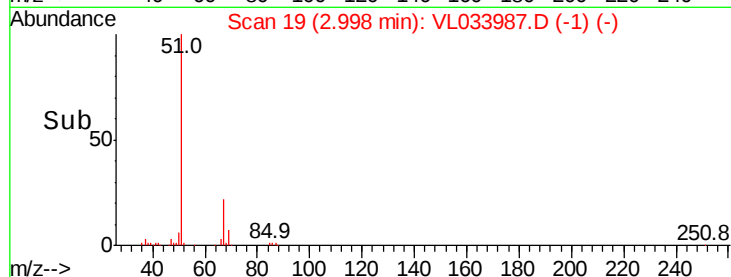
600000

400000

200000

0

Time-->



#4

Chloromethane

Concen: 9.988 ppbv

RT: 3.15 min Scan# 67

Delta R.T. -0.01 min

Lab File: VL033987.D

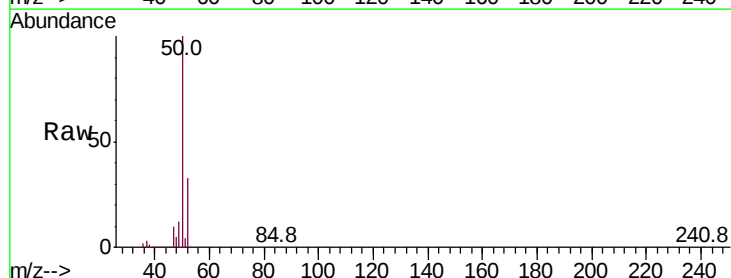
Acq: 27 Jun 2019 9:44

Tgt Ion: 50 Resp: 513331

Ion Ratio Lower Upper

50 100

52 32.5 25.4 38.0



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0

3.15

400000

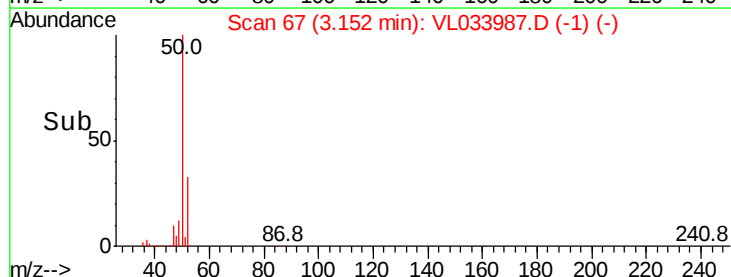
300000

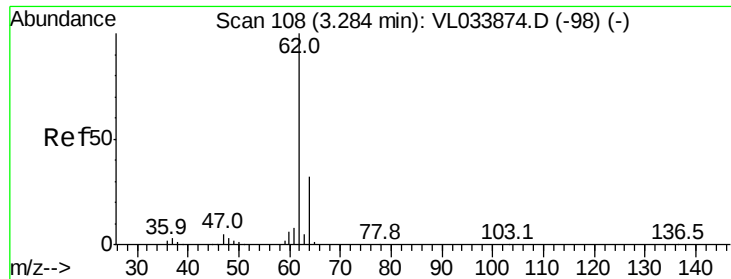
200000

100000

0

Time-->





#5

Vinyl Chloride

Concen: 11.243 ppbv

RT: 3.27 min Scan# 104

Delta R.T. -0.01 min

Lab File: VL033987.D

Acq: 27 Jun 2019 9:44

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 62 Resp: 536118

Ion Ratio Lower Upper

62 100

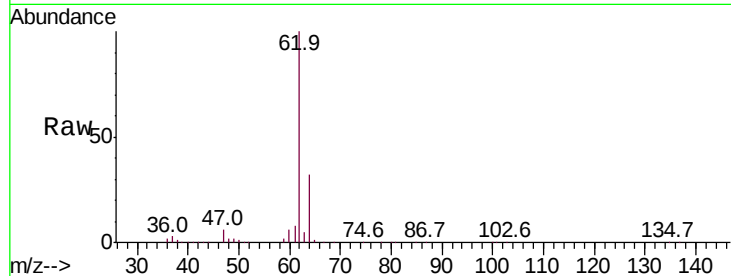
64 31.9 25.2 37.8

Manual Integrations

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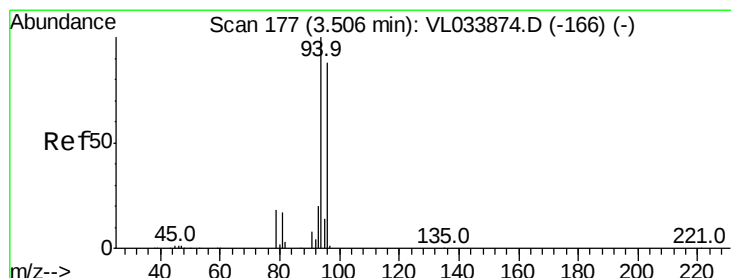
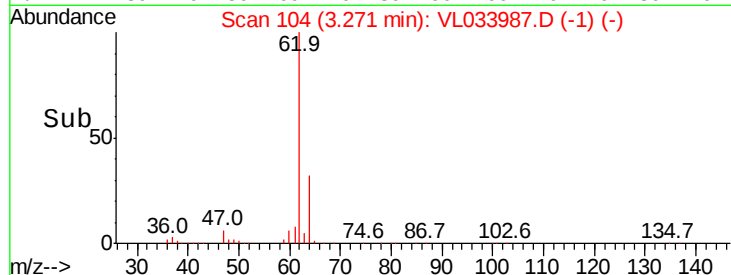
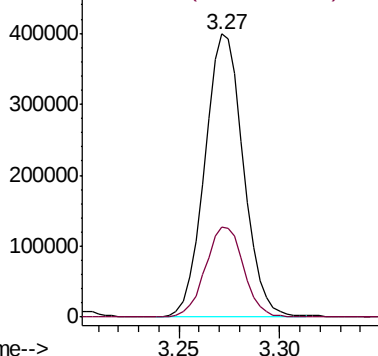
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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 10.842 ppbv

RT: 3.49 min Scan# 173

Delta R.T. -0.01 min

Lab File: VL033987.D

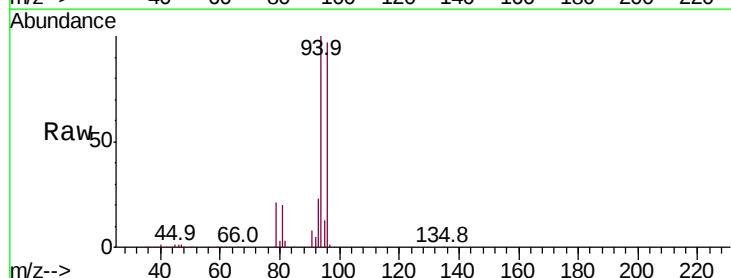
Acq: 27 Jun 2019 9:44

Tgt Ion: 94 Resp: 343483

Ion Ratio Lower Upper

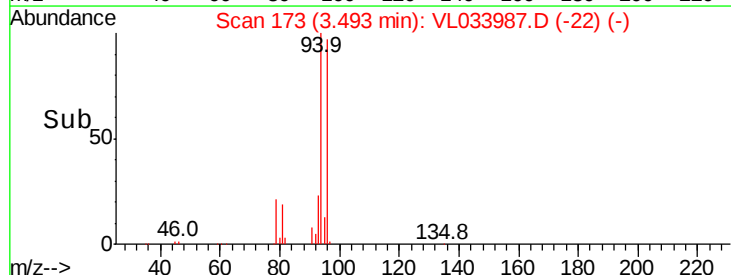
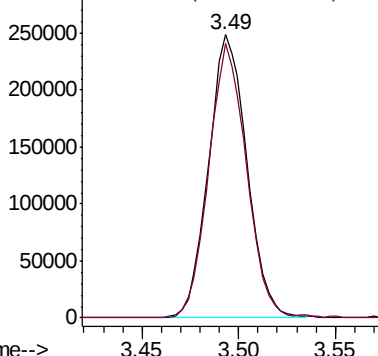
94 100

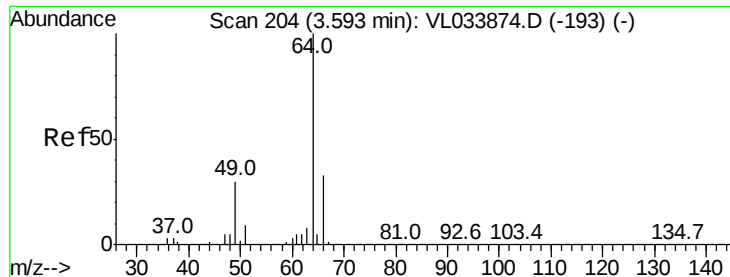
96 96.9 70.2 105.2



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 10.735 ppbv

RT: 3.58 min Scan# 200

Delta R.T. -0.01 min

Lab File: VL033987.D

Acq: 27 Jun 2019 9:44

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 64 Resp: 202443

Ion Ratio Lower Upper

64 100

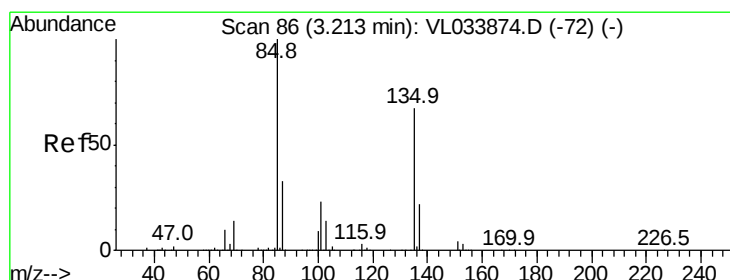
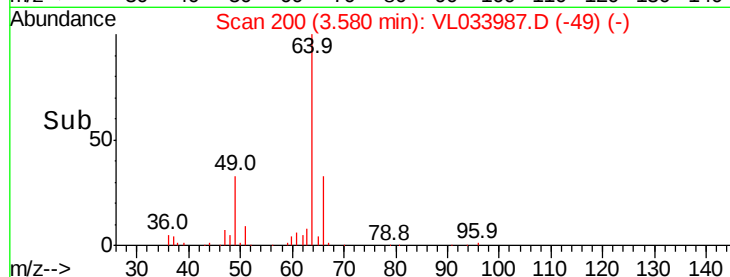
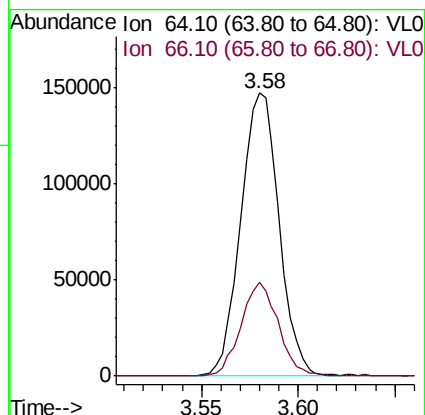
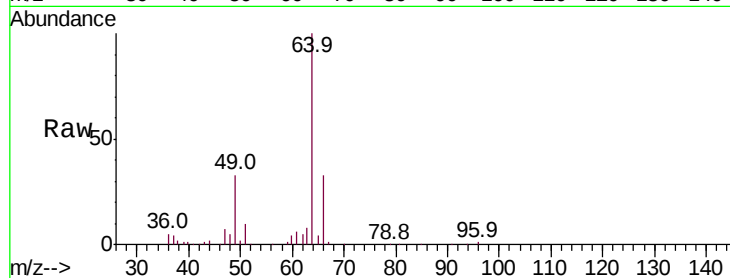
66 33.0 26.7 40.1

Manual Integrations

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#8

Dichlorotetrafluoroethane

Concen: 10.785 ppbv

RT: 3.20 min Scan# 82

Delta R.T. -0.01 min

Lab File: VL033987.D

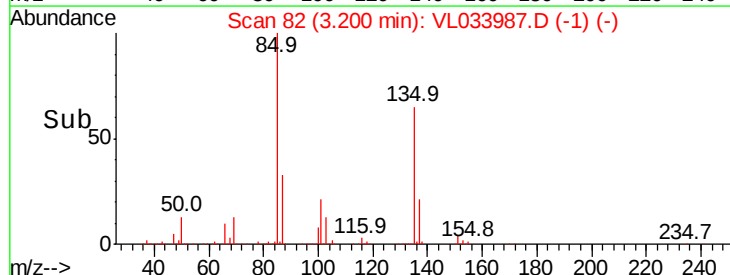
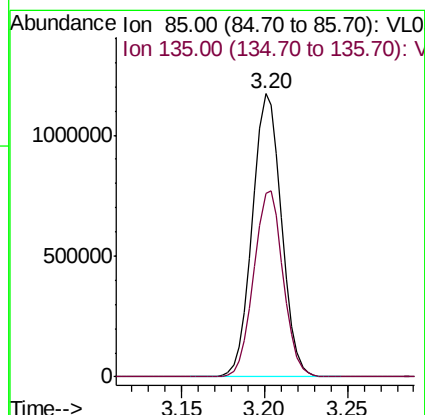
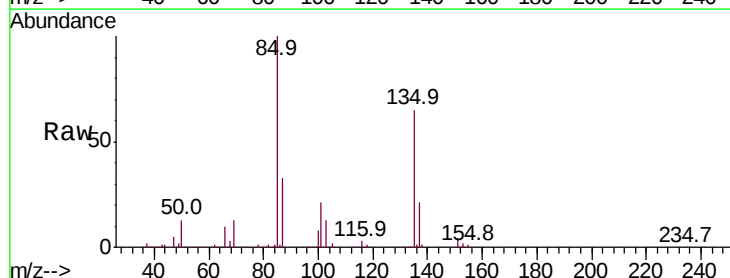
Acq: 27 Jun 2019 9:44

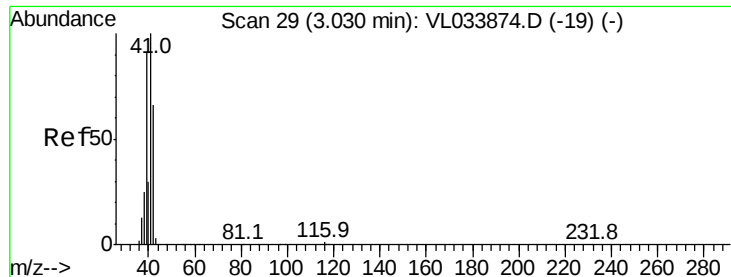
Tgt Ion: 85 Resp: 1431460

Ion Ratio Lower Upper

85 100

135 66.4 53.7 80.5





#9

Propene

Concen: 10.876 ppbv

RT: 3.02 min Scan# 25

Delta R.T. -0.01 min

Lab File: VL033987.D

Acq: 27 Jun 2019 9:44

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 41 Resp: 366682

Ion Ratio Lower Upper

41 100

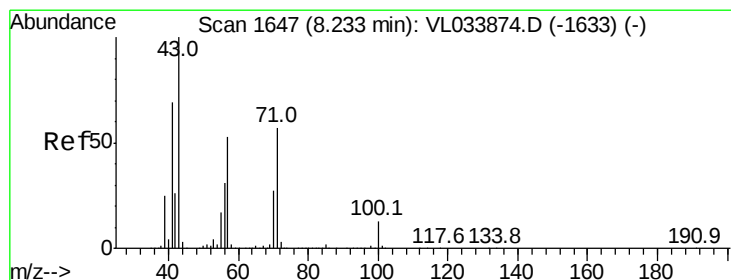
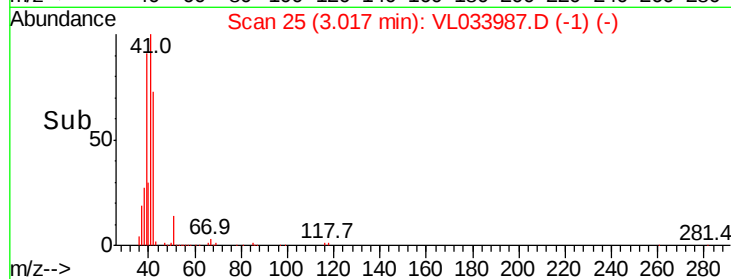
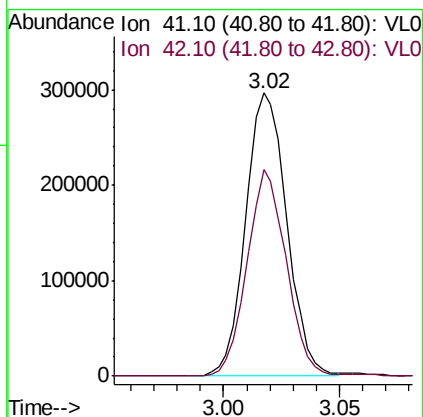
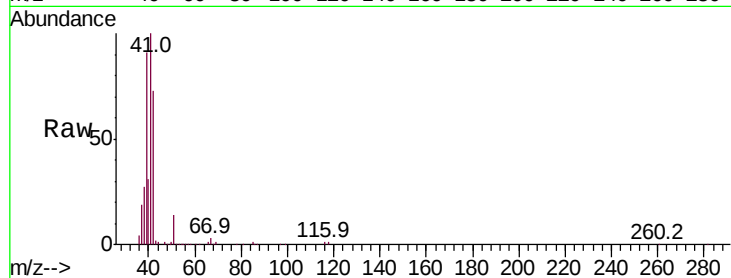
42 70.0 56.3 84.5

Manual Integrations

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#10

Heptane

Concen: 12.377 ppbv

RT: 8.22 min Scan# 1643

Delta R.T. -0.01 min

Lab File: VL033987.D

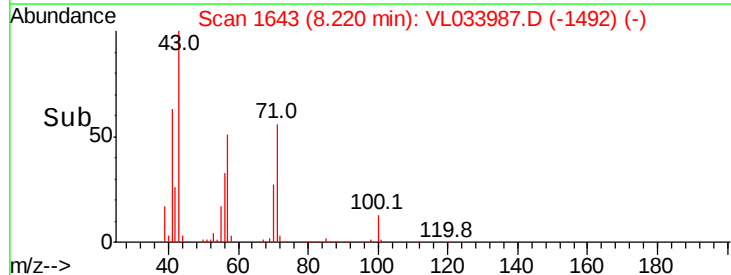
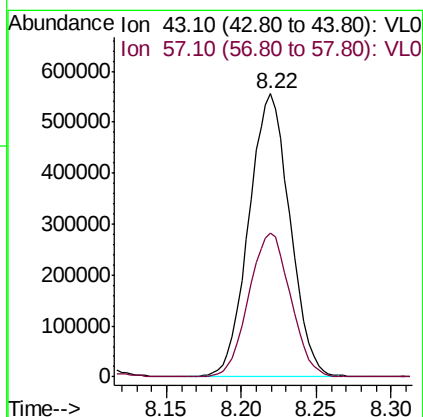
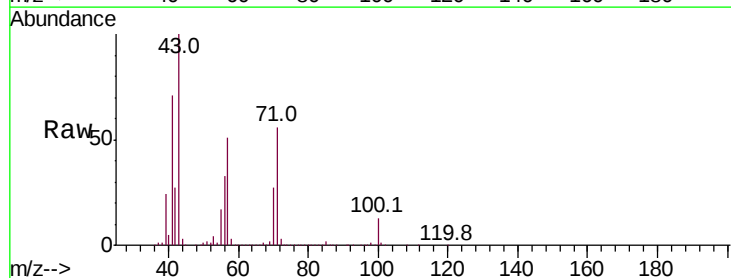
Acq: 27 Jun 2019 9:44

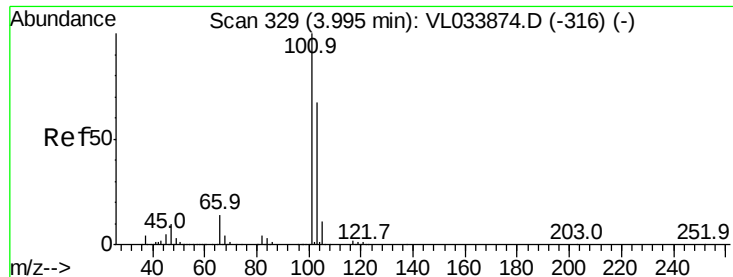
Tgt Ion: 43 Resp: 1054690

Ion Ratio Lower Upper

43 100

57 52.0 41.7 62.5





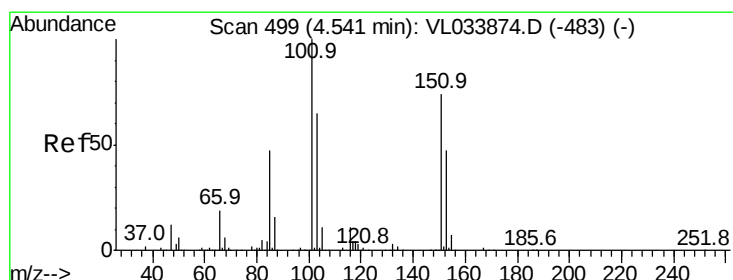
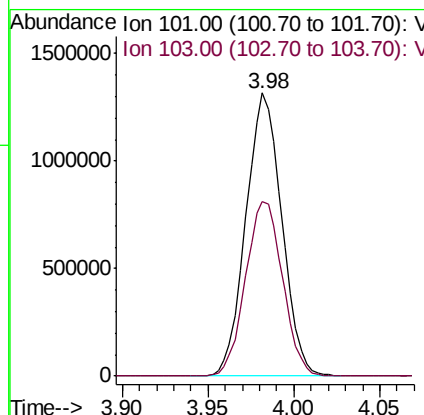
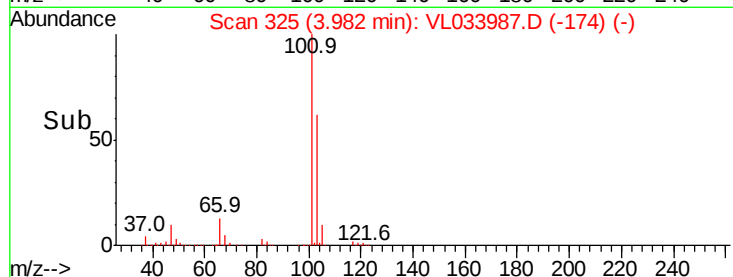
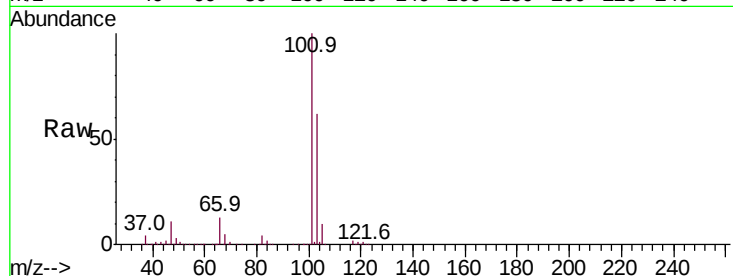
#11
 Trichlorofluoromethane
 Concen: 11.905 ppbv
 RT: 3.98 min Scan# 325
 Delta R.T. -0.01 min
 Lab File: VL033987.D
 Acq: 27 Jun 2019 9:44

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:101 Resp: 1907708
 Ion Ratio Lower Upper
 101 100
 103 61.8 53.6 80.4

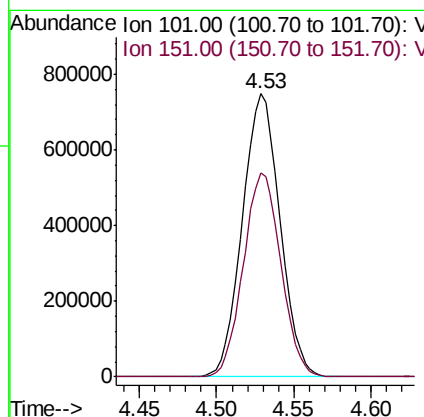
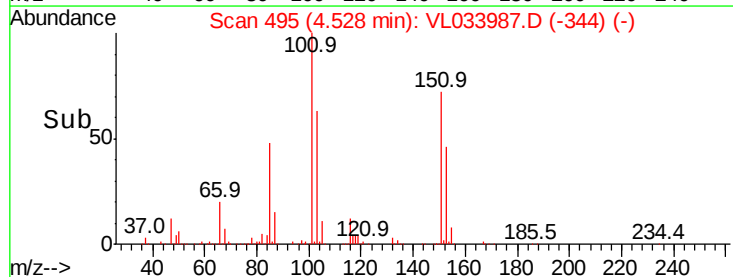
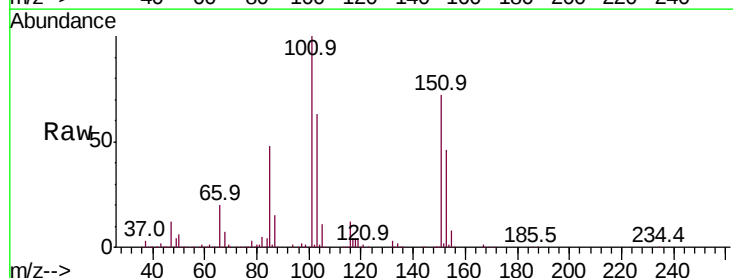
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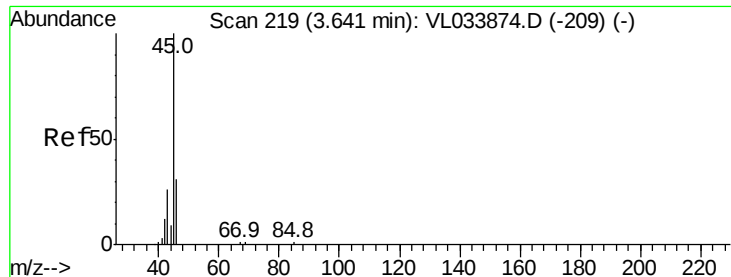
MMDadoda
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#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 11.693 ppbv
 RT: 4.53 min Scan# 495
 Delta R.T. -0.01 min
 Lab File: VL033987.D
 Acq: 27 Jun 2019 9:44

Tgt Ion:101 Resp: 1266344
 Ion Ratio Lower Upper
 101 100
 151 72.1 58.6 87.8





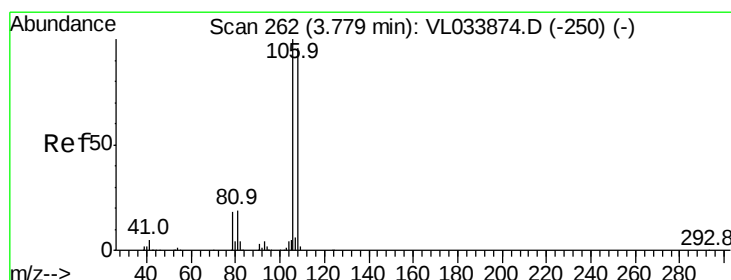
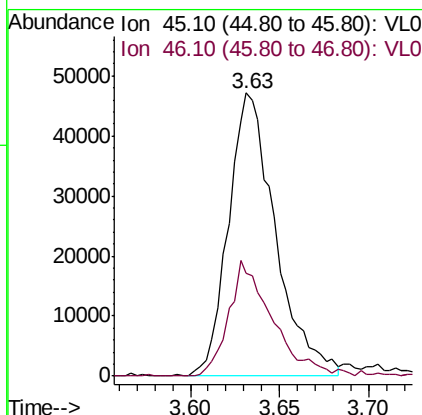
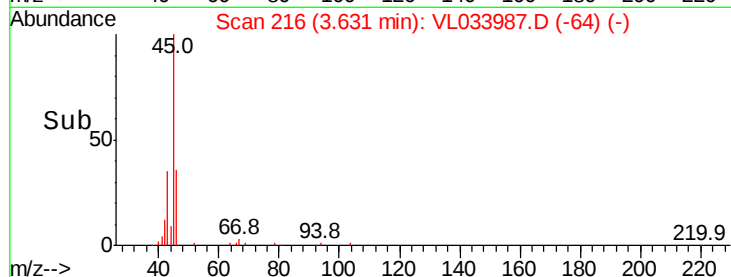
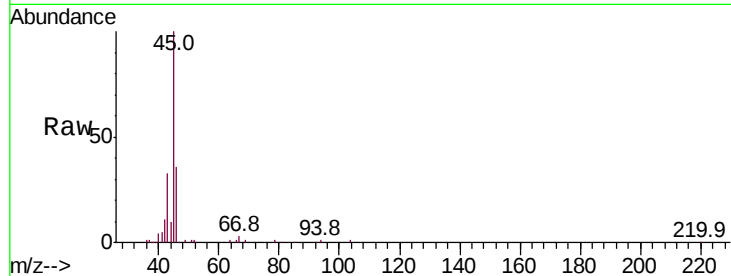
#13
Ethanol
Concen: 7.929 ppbv
RT: 3.63 min Scan# 216
Delta R.T. -0.01 min
Lab File: VL033987.D
Acq: 27 Jun 2019 9:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
45	100		
46	38.1	15.3	61.1

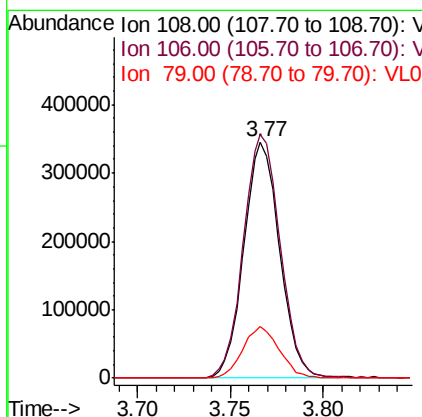
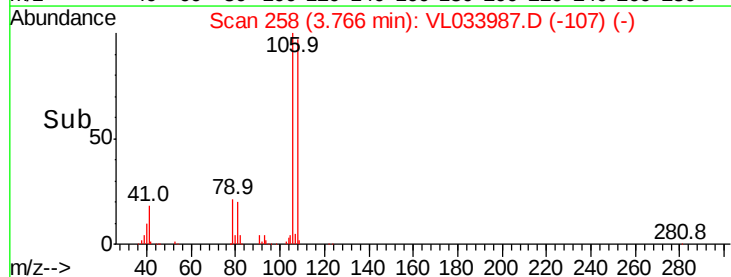
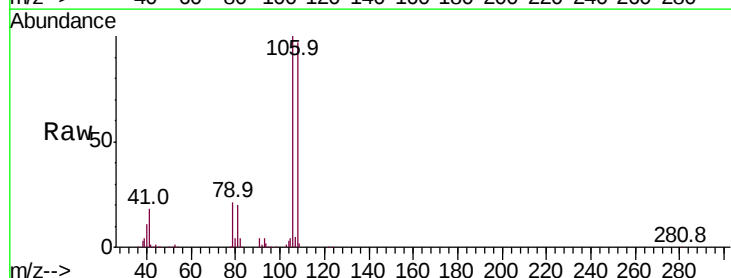
Manual Integrations
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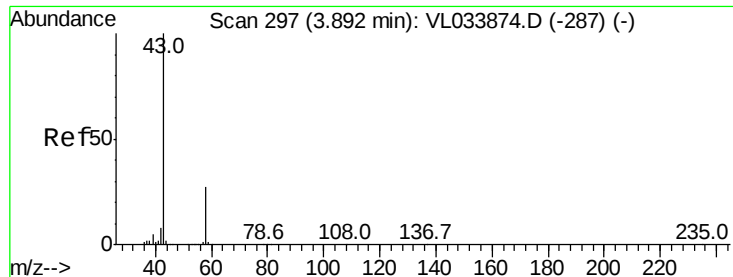
MMDadoda
6/27/2019 3:02:44 PM



#14
Bromoethene
Concen: 11.484 ppbv
RT: 3.77 min Scan# 258
Delta R.T. -0.01 min
Lab File: VL033987.D
Acq: 27 Jun 2019 9:44

Tgt Ion	Ratio	Lower	Upper
108	100		
106	106.5	84.9	127.3
79	22.5	15.4	23.0





#15

Acetone

Concen: 10.788 ppbv

RT: 3.88 min Scan# 293

Delta R.T. -0.01 min

Lab File: VL033987.D

Acq: 27 Jun 2019 9:44

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 1204152

Ion Ratio Lower Upper

43 100

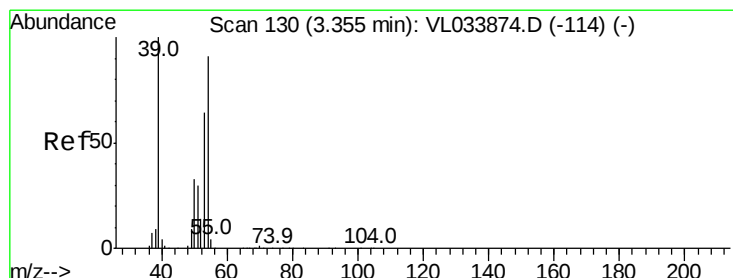
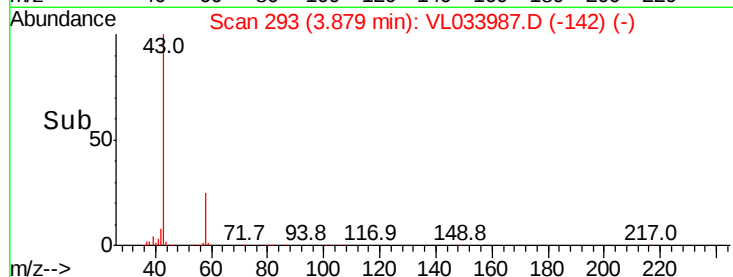
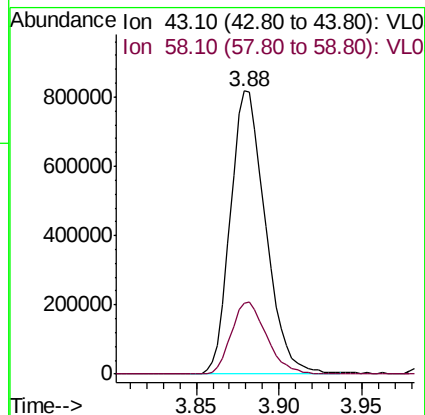
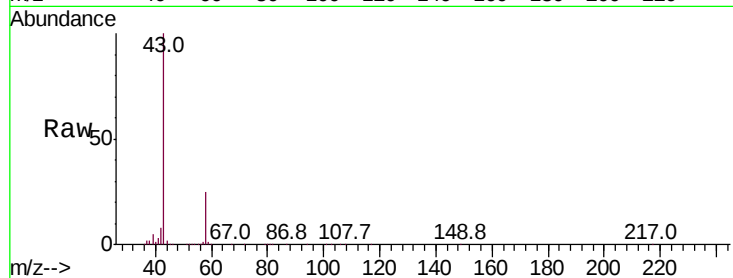
58 25.7 21.3 31.9

Manual Integrations

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#16

1,3-Butadiene

Concen: 11.655 ppbv

RT: 3.35 min Scan# 127

Delta R.T. -0.01 min

Lab File: VL033987.D

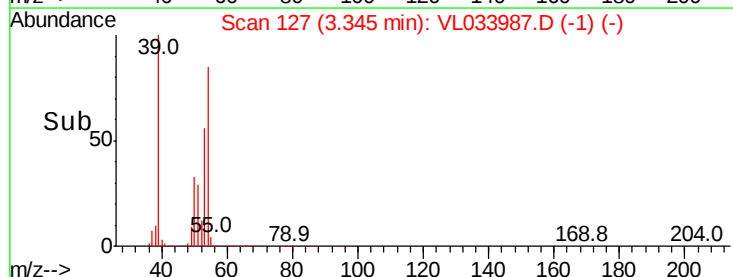
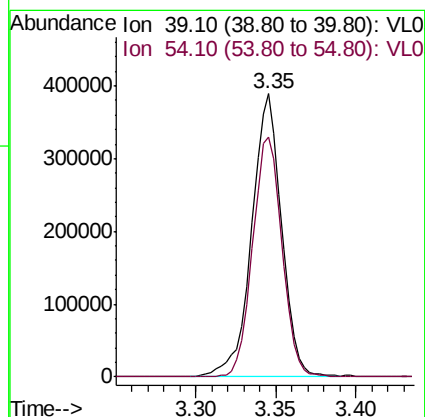
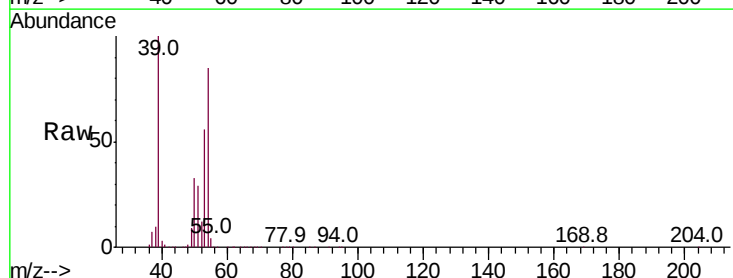
Acq: 27 Jun 2019 9:44

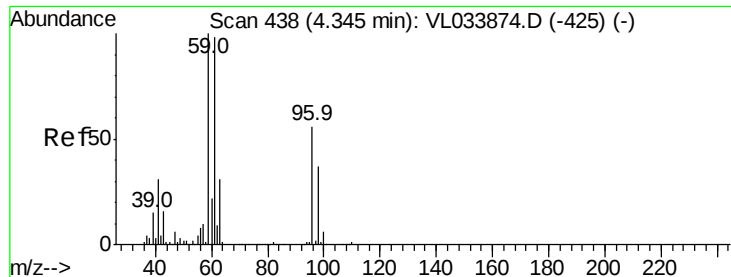
Tgt Ion: 39 Resp: 495182

Ion Ratio Lower Upper

39 100

54 83.3 68.6 103.0





#17

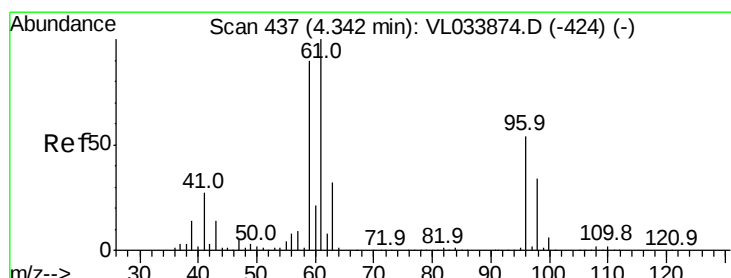
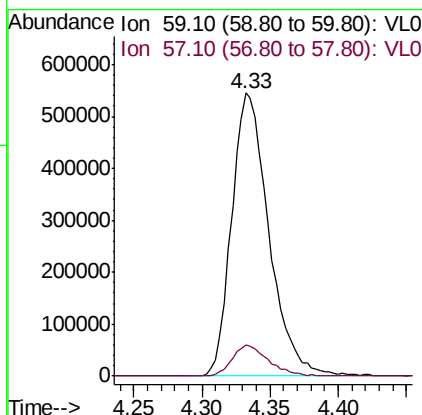
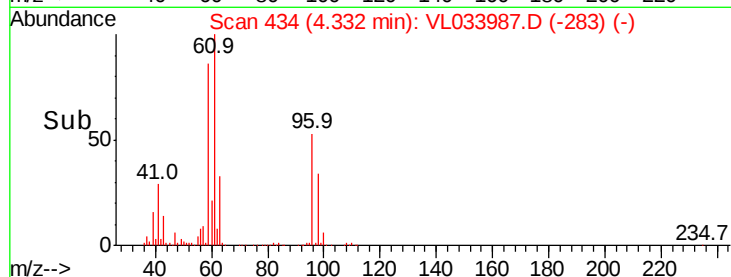
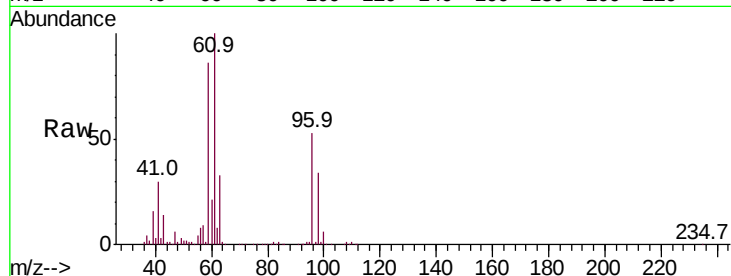
tert-Butyl alcohol
Concen: 11.805 ppbv
RT: 4.33 min Scan# 434
Delta R.T. -0.01 min
Lab File: VL033987.D
Acq: 27 Jun 2019 9:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 59 Resp: 1030128
Ion Ratio Lower Upper
59 100
57 10.8 8.4 12.6

Manual Integrations
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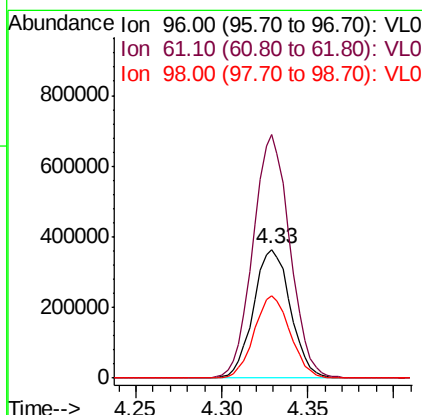
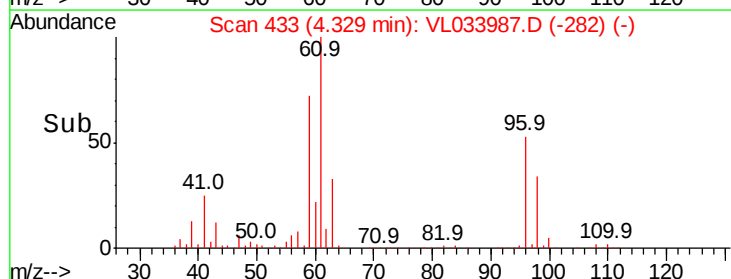
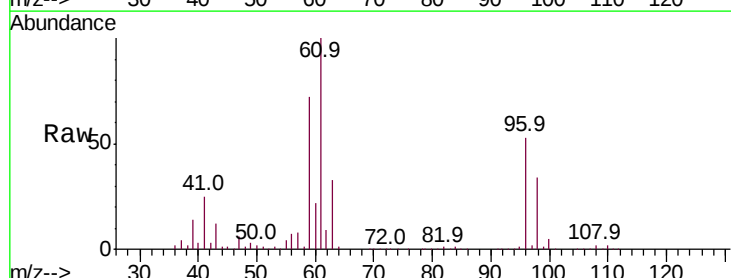
MMDadoda
6/27/2019 3:02:44 PM

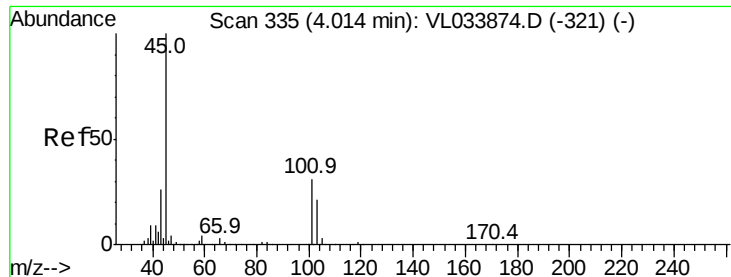


#18

1,1-Dichloroethene
Concen: 11.887 ppbv
RT: 4.33 min Scan# 433
Delta R.T. -0.01 min
Lab File: VL033987.D
Acq: 27 Jun 2019 9:44

Tgt Ion: 96 Resp: 543752
Ion Ratio Lower Upper
96 100
61 188.7 147.0 220.6
98 63.7 49.4 74.0





#19

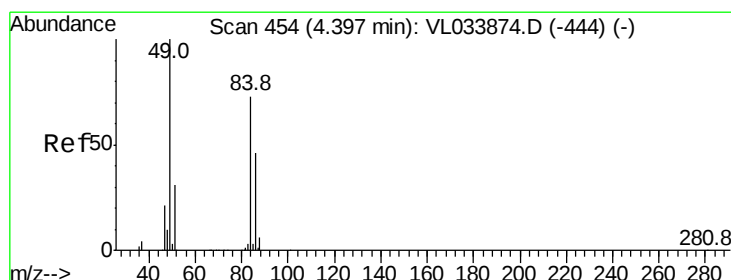
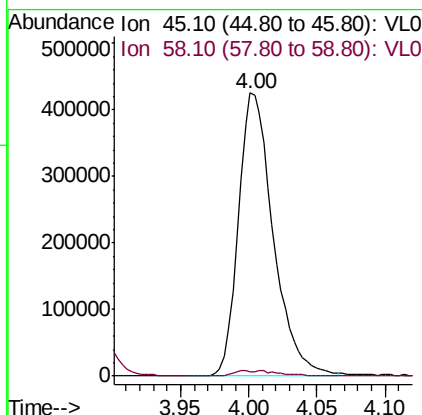
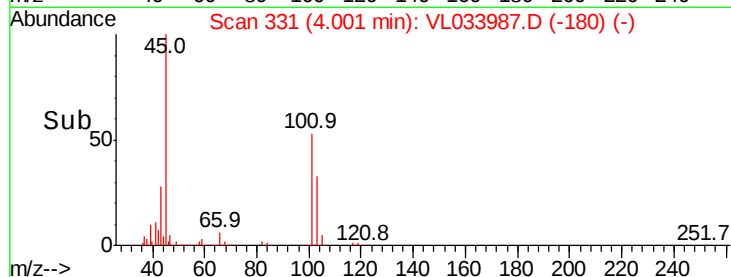
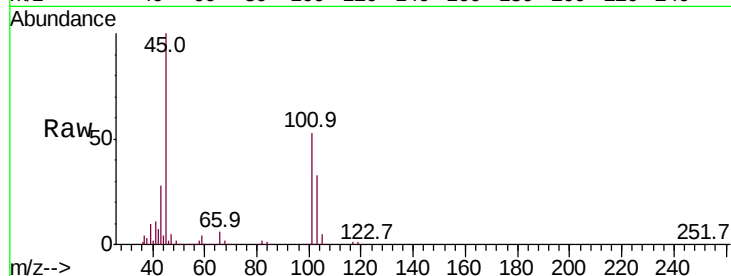
Isopropyl Alcohol
 Concen: 11.824 ppbv
 RT: 4.00 min Scan# 331
 Delta R.T. -0.01 min
 Lab File: VL033987.D
 Acq: 27 Jun 2019 9:44

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion: 45 Resp: 754012
 Ion Ratio Lower Upper
 45 100
 58 2.5 1.8 2.6

Manual Integrations
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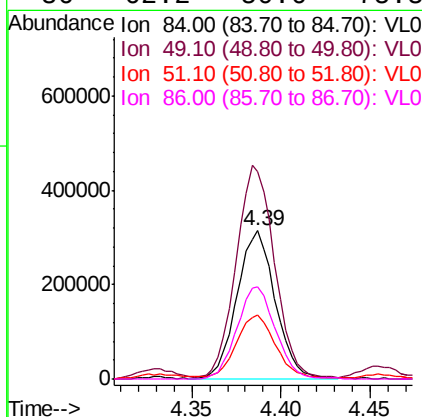
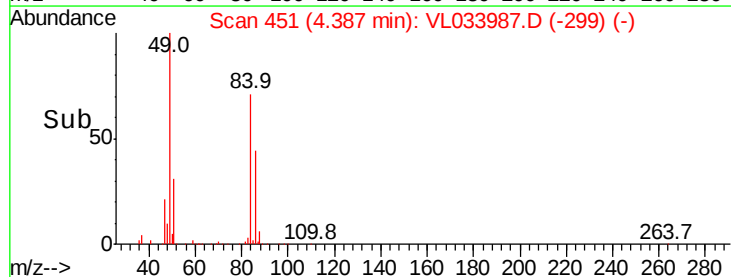
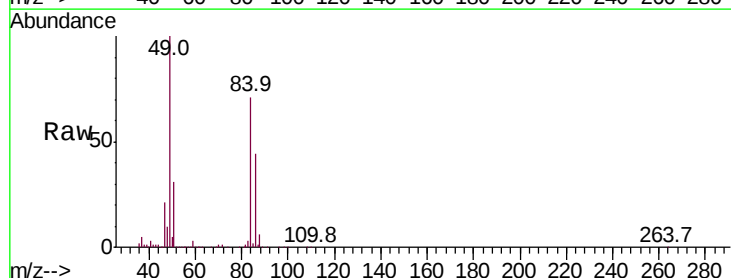
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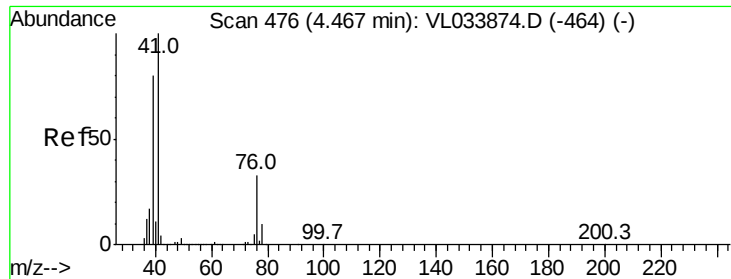


#20

Methylene Chloride
 Concen: 10.756 ppbv
 RT: 4.39 min Scan# 451
 Delta R.T. -0.01 min
 Lab File: VL033987.D
 Acq: 27 Jun 2019 9:44

Tgt Ion: 84 Resp: 468225
 Ion Ratio Lower Upper
 84 100
 49 139.1 110.0 165.0
 51 42.4 34.6 51.8
 86 62.2 50.6 75.8





#21

Allvl Chloride

Concen: 12.302 ppbv

RT: 4.45 min Scan# 472

Delta R.T. -0.01 min

Lab File: VL033987.D

Acq: 27 Jun 2019 9:44

Instrument :

MSVOA_L

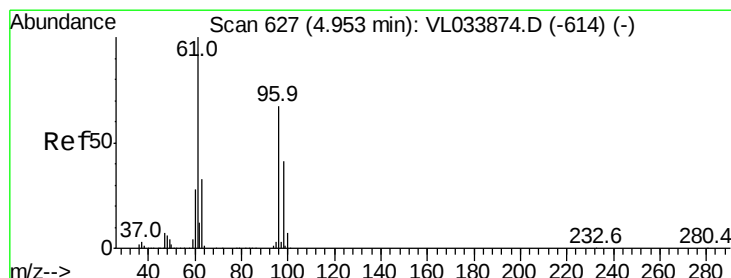
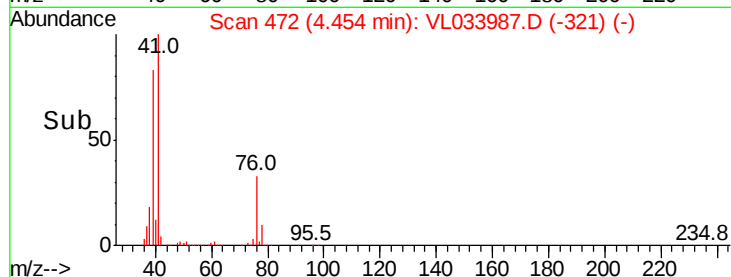
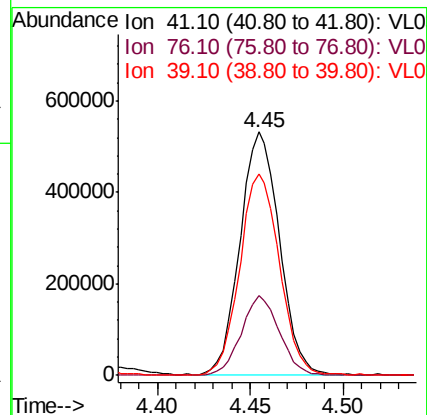
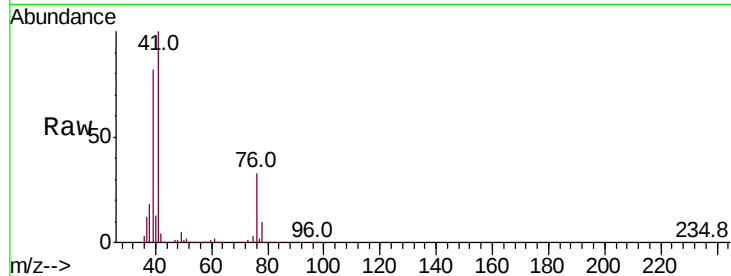
ClientSampleId :

VSTDCCC010EC

Tot Ion:	41	Resp:	780031
Ion Ratio	Lower	Upper	
41	100		
76	31.9	26.6	39.8
39	84.2	65.2	97.8

Manual Integrations
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6/27/2019 3:02:44 PM



#22

trans-1,2-Dichloroethene

Concen: 11.820 ppbv

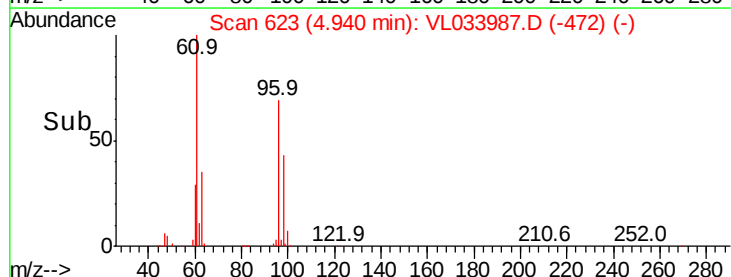
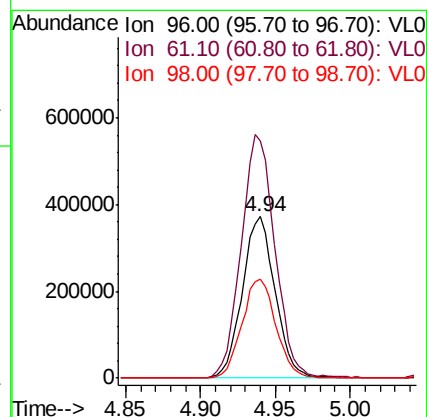
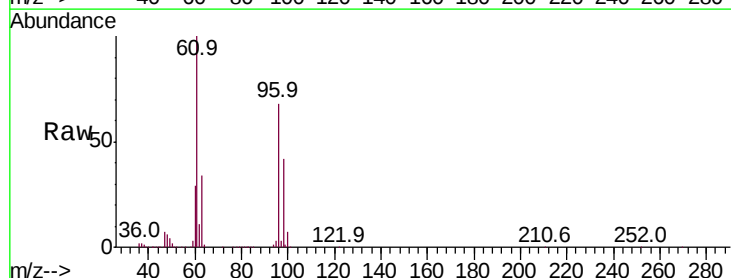
RT: 4.94 min Scan# 623

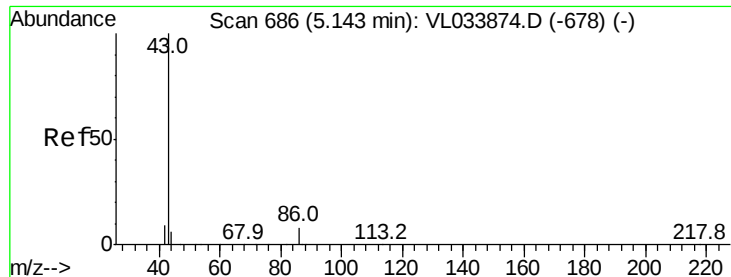
Delta R.T. -0.01 min

Lab File: VL033987.D

Acq: 27 Jun 2019 9:44

Tgt Ion:	96	Resp:	569970
Ion Ratio	Lower	Upper	
96	100		
61	146.4	119.0	178.6
98	61.4	48.3	72.5





#23

Vinyl Acetate

Concen: 11.589 ppbv

RT: 5.13 min Scan# 682

Delta R.T. -0.01 min

Lab File: VL033987.D

Acq: 27 Jun 2019 9:44

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 1503586

Ion Ratio Lower Upper

43 100

86 7.4 5.8 8.8

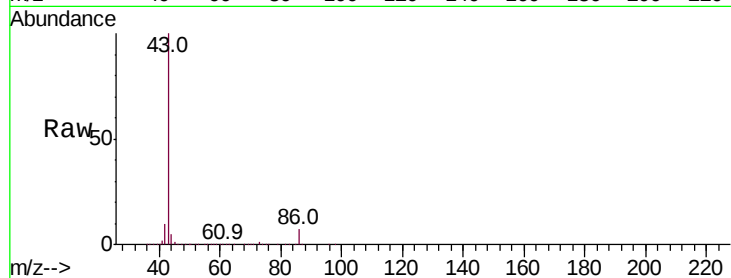
42 10.4 7.8 11.8

44 5.2 4.2 6.4

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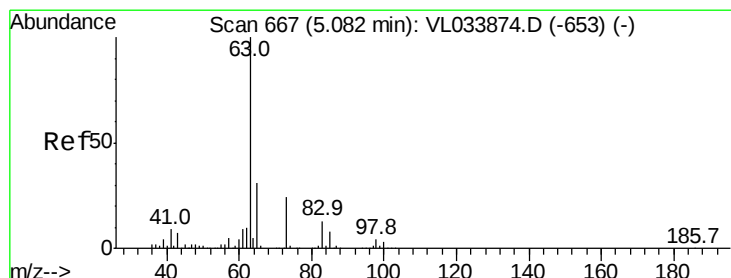
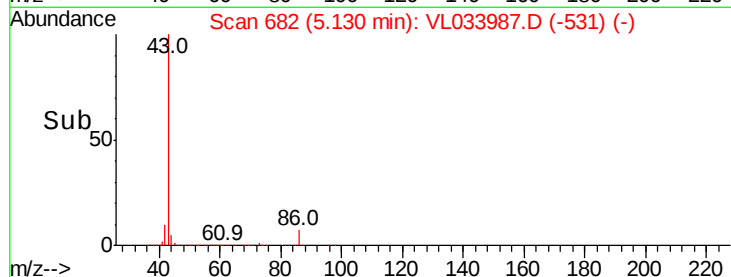
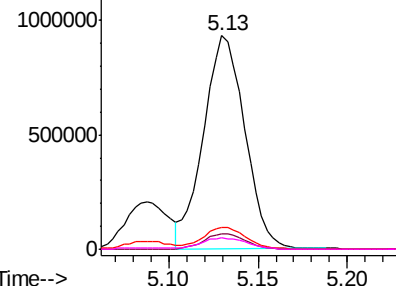


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 10.894 ppbv

RT: 5.07 min Scan# 662

Delta R.T. -0.02 min

Lab File: VL033987.D

Acq: 27 Jun 2019 9:44

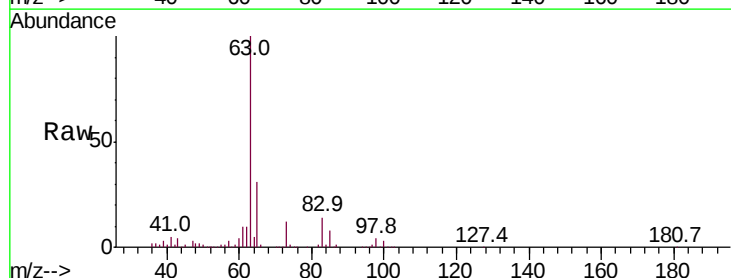
Tgt Ion: 63 Resp: 1099317

Ion Ratio Lower Upper

63 100

98 4.2 2.2 6.6

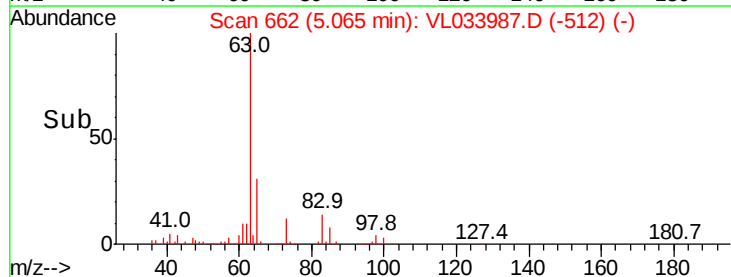
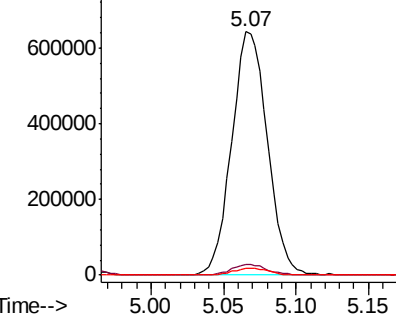
100 2.8 1.3 3.8

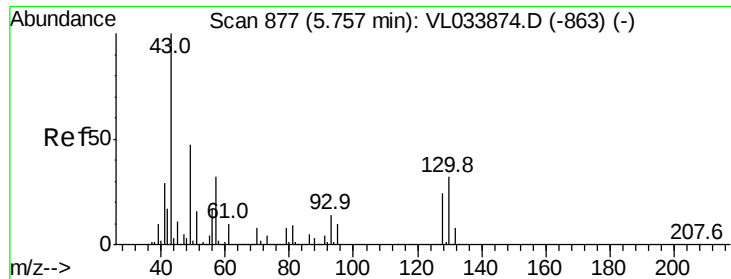


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





#25

Ethyl Acetate

Concen: 11.353 ppbv

RT: 5.74 min Scan# 873

Delta R.T. -0.01 min

Lab File: VL033987.D

Acq: 27 Jun 2019 9:44

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 1929936

Ion Ratio Lower Upper

43 100

45 10.0 7.9 11.9

61 9.3 7.8 11.6

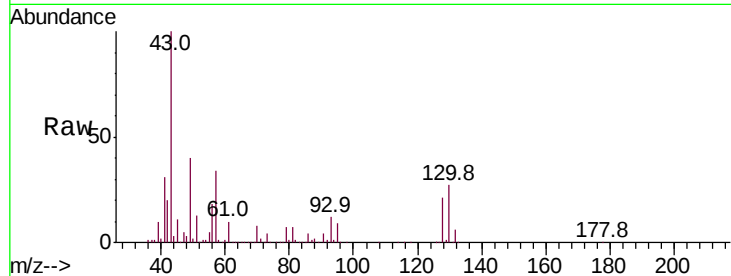
70 7.1 5.8 8.6

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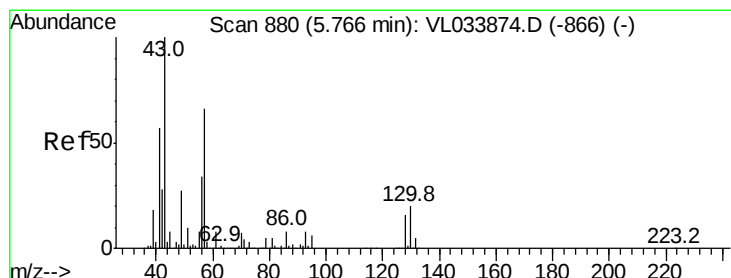
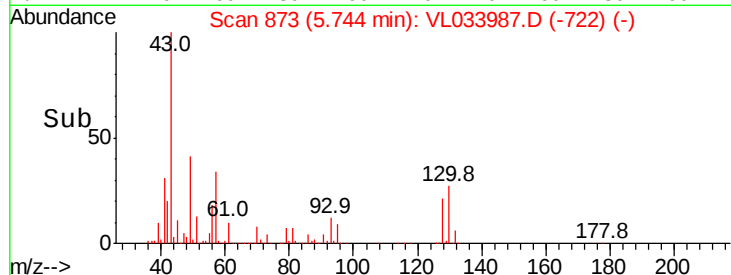
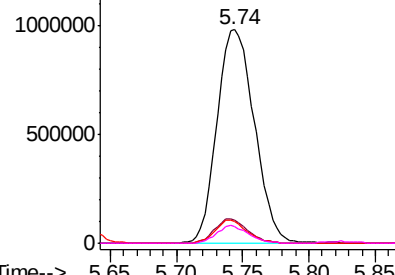


Abundance Ion 43.10 (42.80 to 43.80): VL0

1500000 Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 10.872 ppbv

RT: 5.75 min Scan# 876

Delta R.T. -0.01 min

Lab File: VL033987.D

Acq: 27 Jun 2019 9:44

Tgt Ion: 57 Resp: 841498

Ion Ratio Lower Upper

57 100

41 91.7 71.4 107.2

43 230.5 183.7 275.5

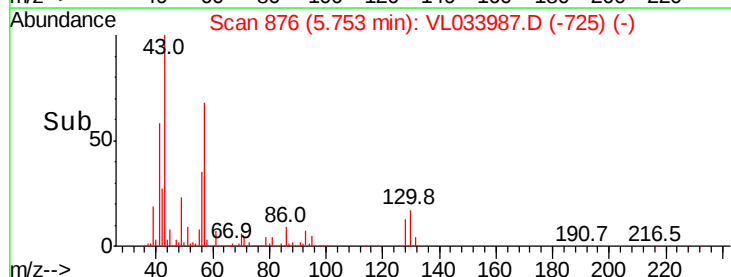
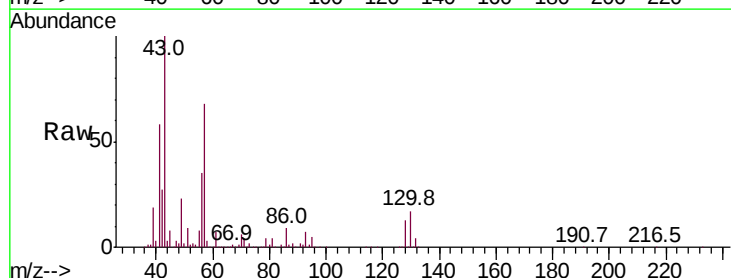
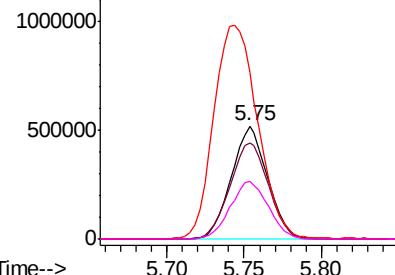
56 54.1 42.7 64.1

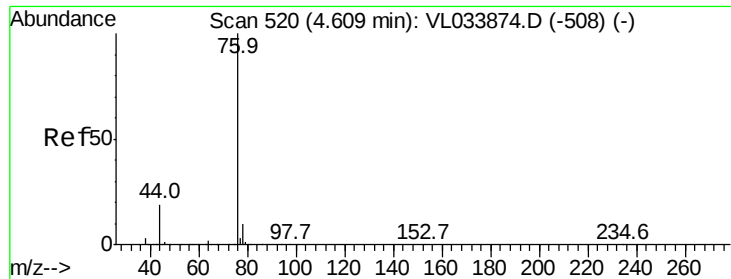
Abundance Ion 57.10 (56.80 to 57.80): VL0

1500000 Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





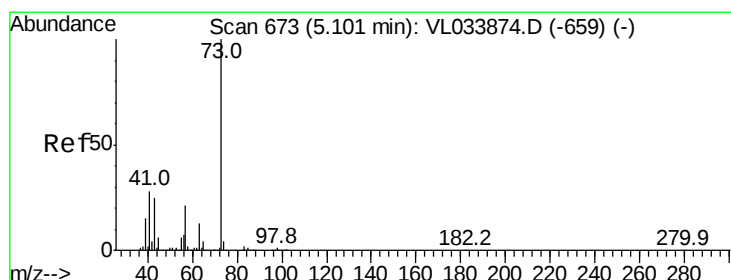
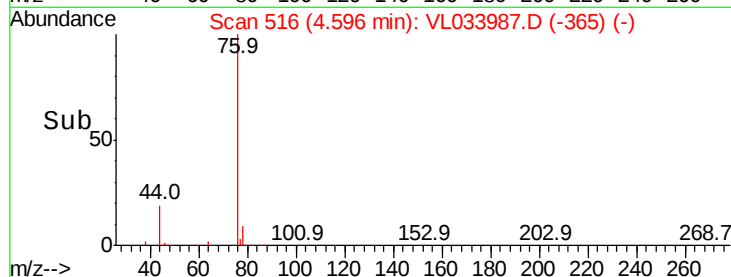
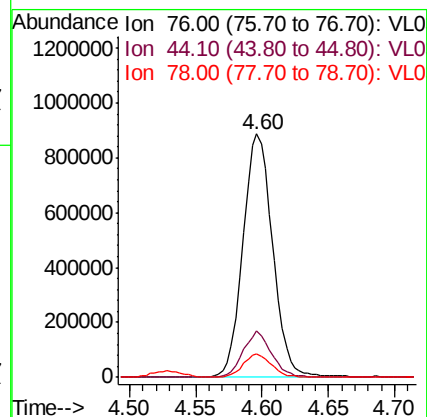
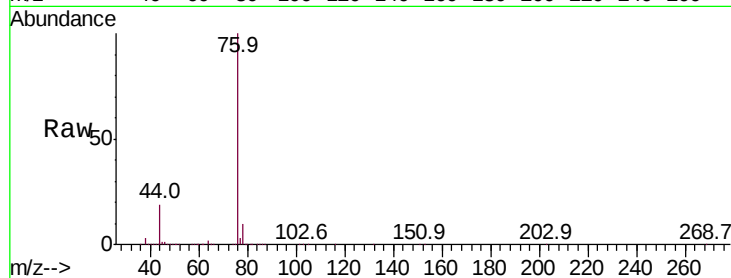
#27
Carbon Disulfide
Concen: 12.879 ppbv
RT: 4.60 min Scan# 516
Delta R.T. -0.01 min
Lab File: VL033987.D
Acq: 27 Jun 2019 9:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
76	100		
44	18.0	14.4	21.6
78	9.1	7.5	11.3

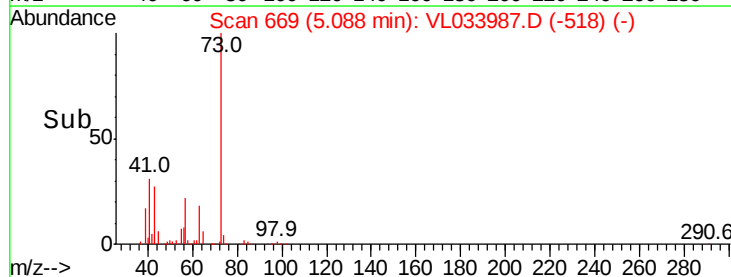
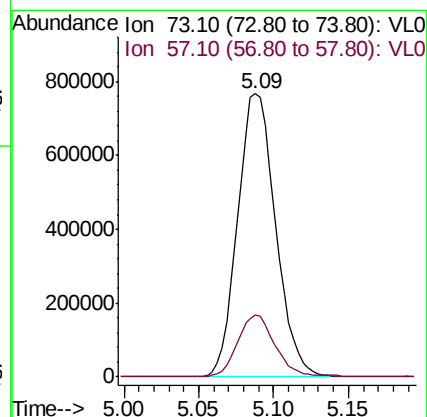
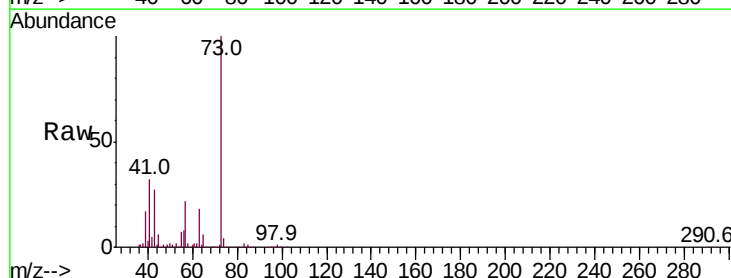
Manual Integrations
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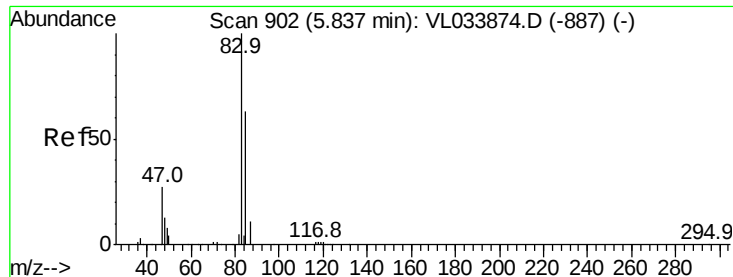
MMDadoda
6/27/2019 3:02:44 PM



#28
Methyl tert-Butyl Ether
Concen: 11.639 ppbv
RT: 5.09 min Scan# 669
Delta R.T. -0.01 min
Lab File: VL033987.D
Acq: 27 Jun 2019 9:44

Tgt Ion	Ratio	Lower	Upper
73	100		
57	21.3	17.2	25.8





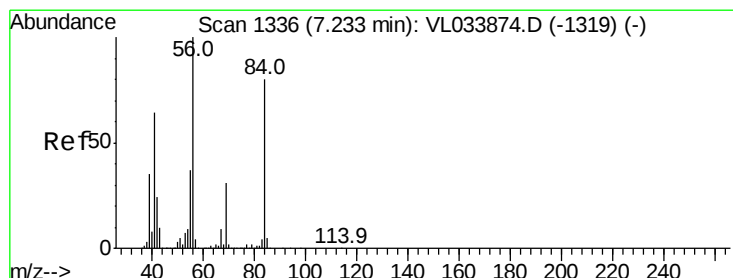
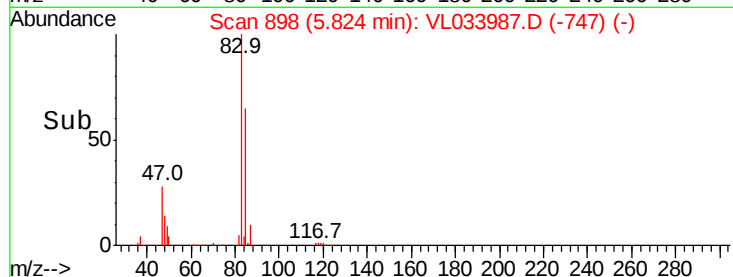
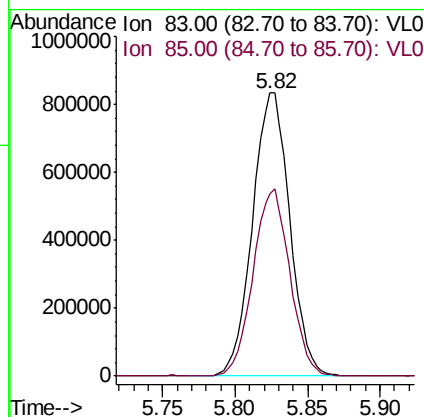
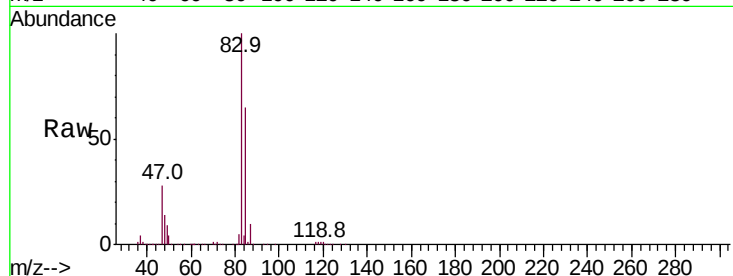
#29
Chloroform
Concen: 11.273 ppbv
RT: 5.82 min Scan# 898
Delta R.T. -0.01 min
Lab File: VL033987.D
Acq: 27 Jun 2019 9:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 83 Resp: 1494374
Ion Ratio Lower Upper
83 100
85 64.4 50.5 75.7

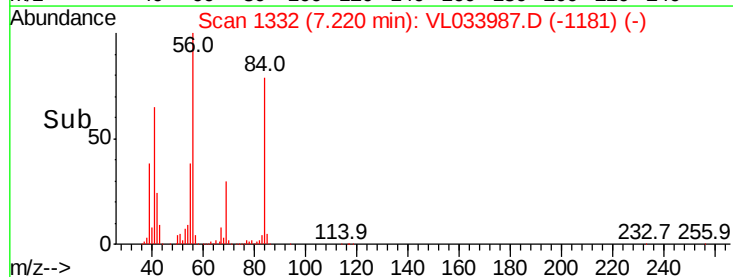
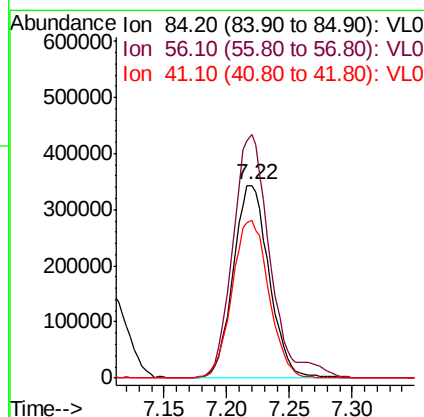
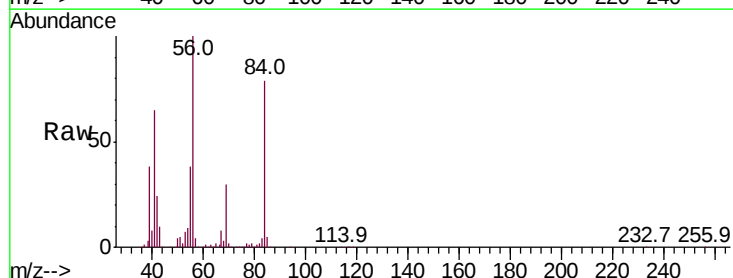
Manual Integrations
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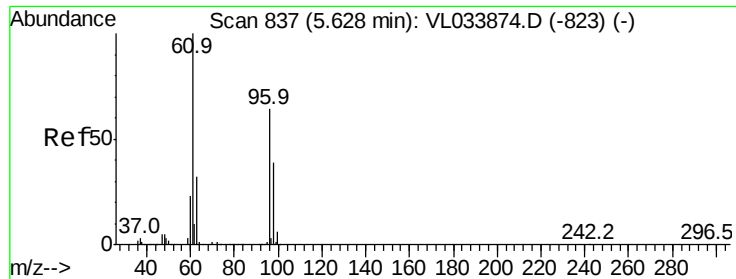
MMDadoda
6/27/2019 3:02:44 PM



#30
Cyclohexane
Concen: 12.465 ppbv
RT: 7.22 min Scan# 1332
Delta R.T. -0.01 min
Lab File: VL033987.D
Acq: 27 Jun 2019 9:44

Tgt Ion: 84 Resp: 681675
Ion Ratio Lower Upper
84 100
56 131.6 105.8 158.8
41 83.9 65.7 98.5





#31

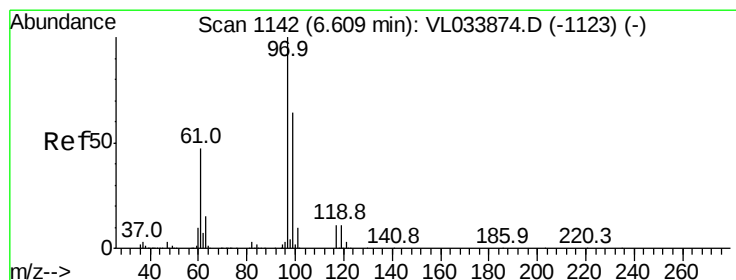
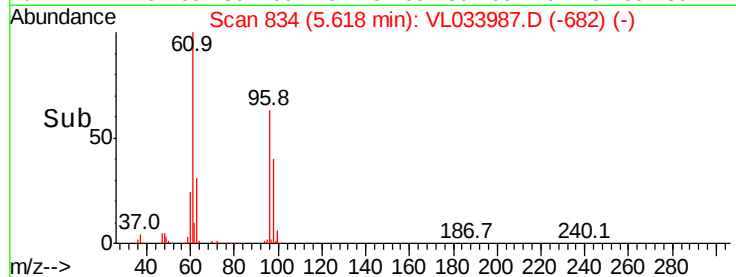
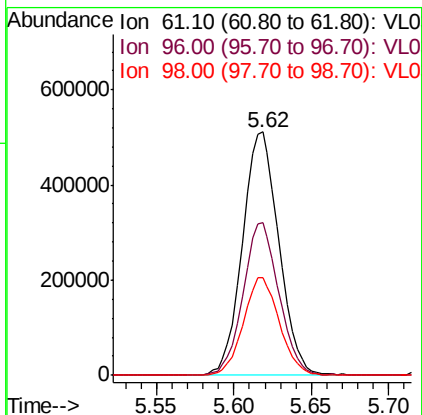
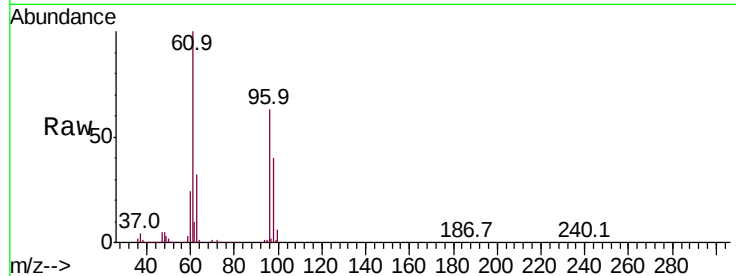
cis-1,2-Dichloroethene
Concen: 12.365 ppbv
RT: 5.62 min Scan# 834
Delta R.T. -0.01 min
Lab File: VL033987.D
Acq: 27 Jun 2019 9:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
61	100		
96	62.9	50.9	76.3
98	40.3	31.4	47.2

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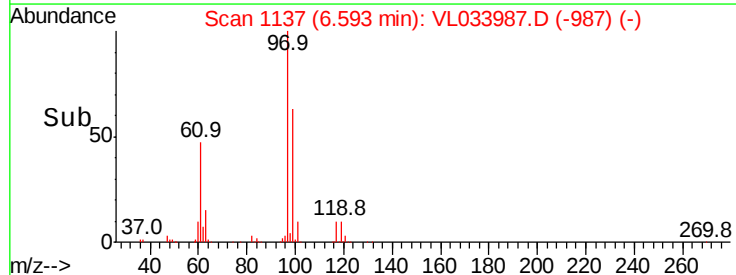
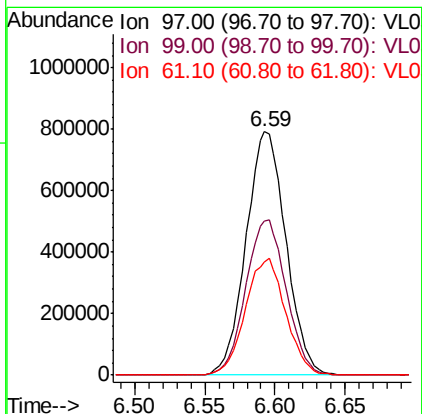
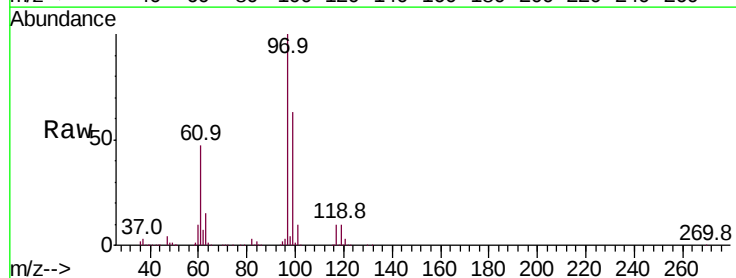
MMDadoda
6/27/2019 3:02:44 PM

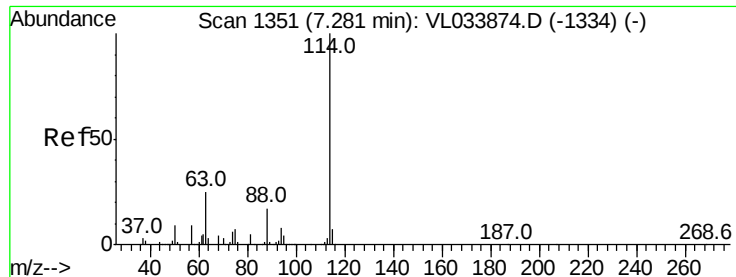


#32

1,1,1-Trichloroethane
Concen: 12.287 ppbv
RT: 6.59 min Scan# 1137
Delta R.T. -0.02 min
Lab File: VL033987.D
Acq: 27 Jun 2019 9:44

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.4	51.7	77.5
61	48.1	37.7	56.5





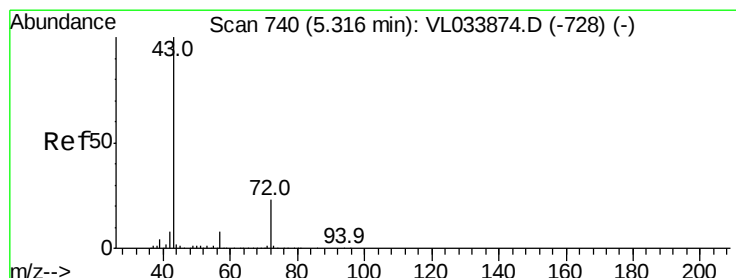
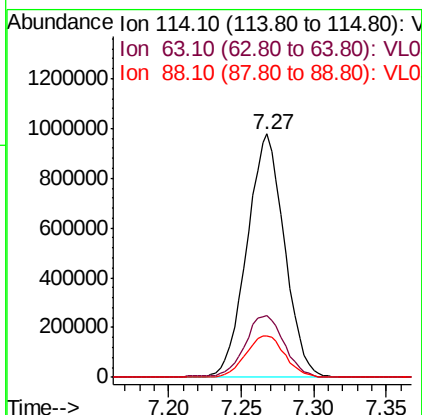
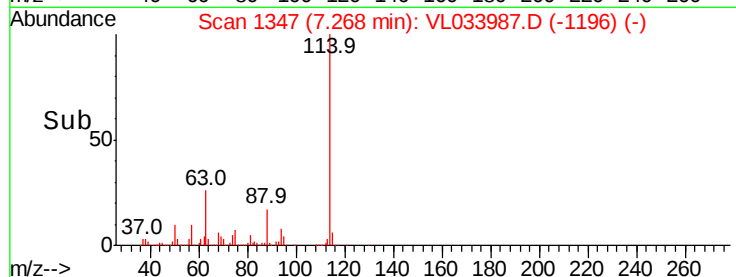
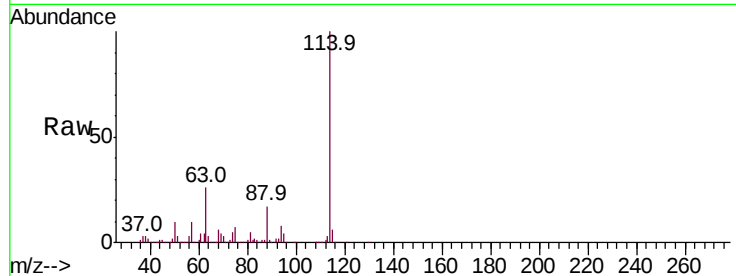
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.27 min Scan# 1347
 Delta R.T. -0.01 min
 Lab File: VL033987.D
 Acq: 27 Jun 2019 9:44

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:114 Resp: 1756869
 Ion Ratio Lower Upper
 114 100
 63 27.2 21.1 31.7
 88 17.8 14.2 21.4

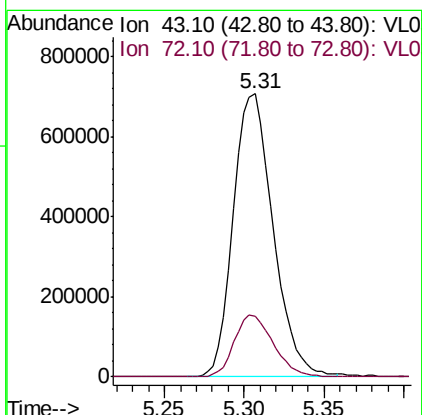
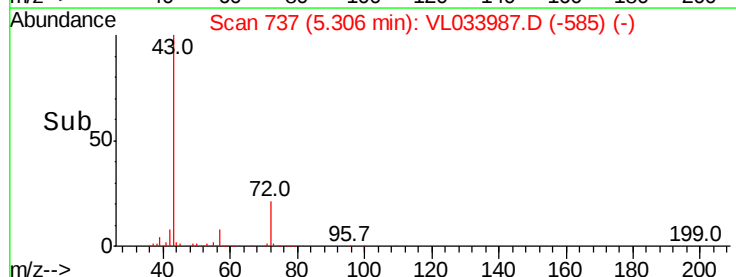
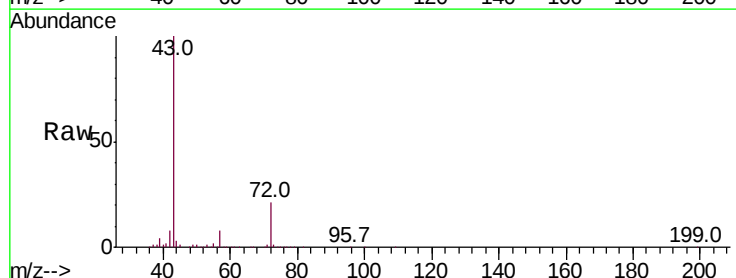
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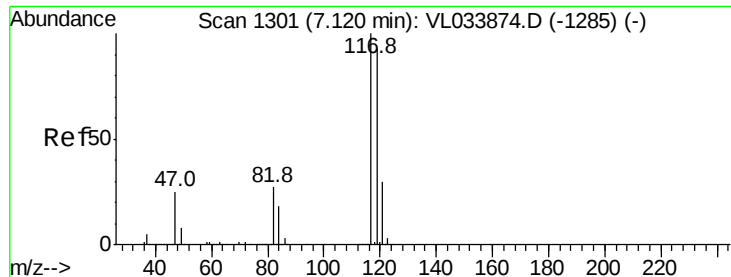
MMDadoda
 6/27/2019 3:02:44 PM



#34
 2-Butanone
 Concen: 12.053 ppbv
 RT: 5.31 min Scan# 737
 Delta R.T. -0.01 min
 Lab File: VL033987.D
 Acq: 27 Jun 2019 9:44

Tgt Ion: 43 Resp: 1194577
 Ion Ratio Lower Upper
 43 100
 72 21.7 17.9 26.9





#35

Carbon Tetrachloride

Concen: 12.620 ppbv

RT: 7.11 min Scan# 1297

Delta R.T. -0.01 min

Lab File: VL033987.D

Acq: 27 Jun 2019 9:44

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:117 Resp: 1712965

Ion Ratio Lower Upper

117 100

119 95.9 74.6 111.8

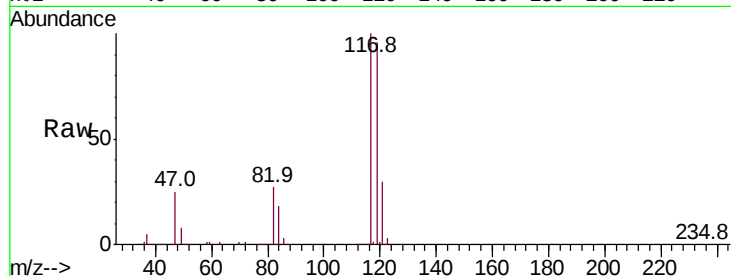
121 29.7 24.0 36.0

Manual Integrations

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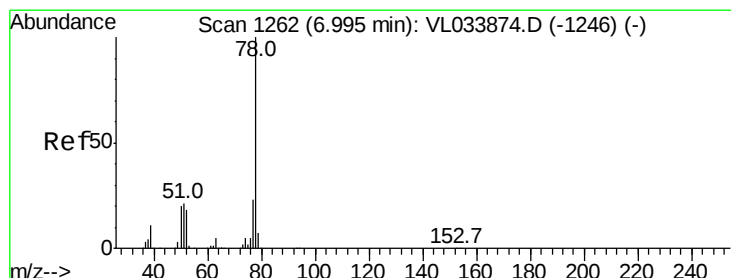
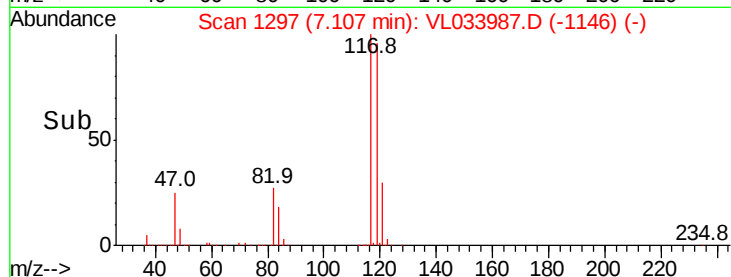
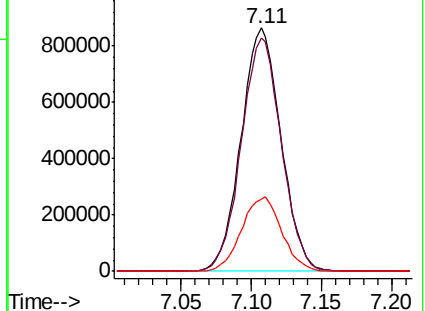
6/27/2019 3:02:44 PM



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 12.176 ppbv

RT: 6.98 min Scan# 1257

Delta R.T. -0.02 min

Lab File: VL033987.D

Acq: 27 Jun 2019 9:44

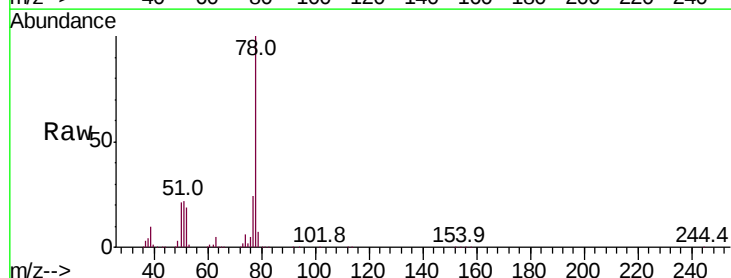
Tgt Ion: 78 Resp: 1634040

Ion Ratio Lower Upper

78 100

77 24.2 18.2 27.2

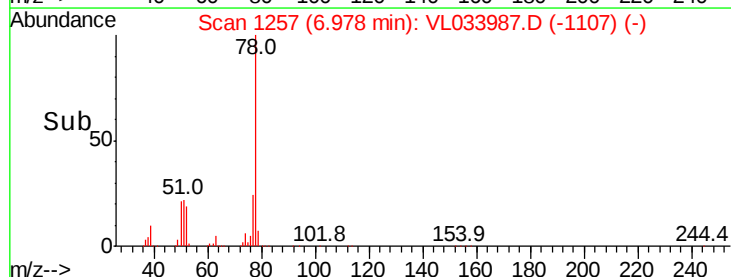
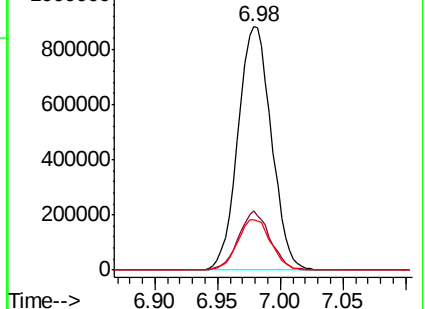
50 20.7 15.9 23.9

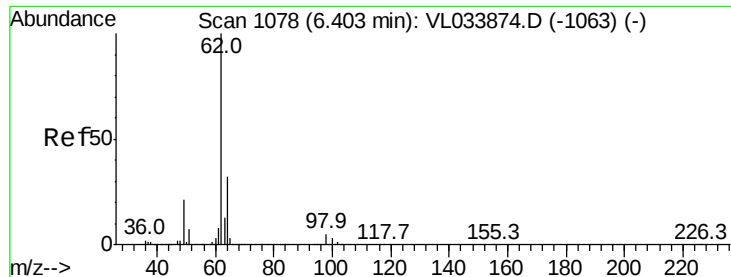


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





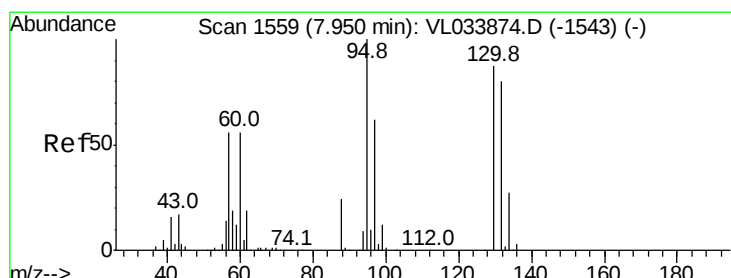
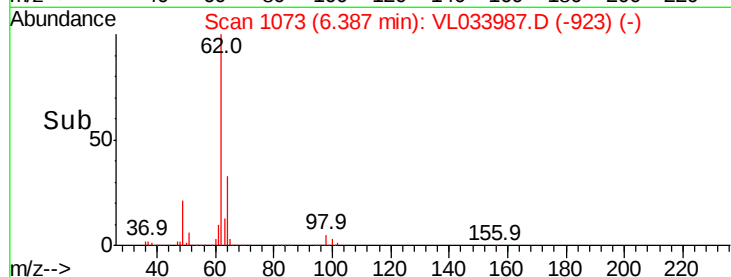
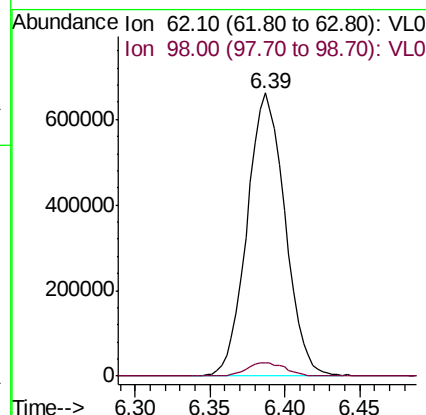
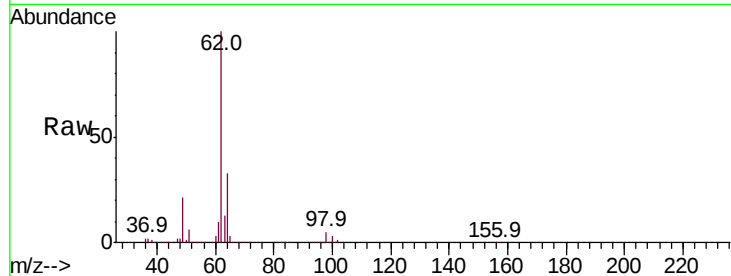
#37
1,2-Dichloroethane
Concen: 11.776 ppbv
RT: 6.39 min Scan# 1073
Delta R.T. -0.02 min
Lab File: VL033987.D
Acq: 27 Jun 2019 9:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 62 Resp: 1168832
Ion Ratio Lower Upper
62 100
98 4.9 4.0 6.0

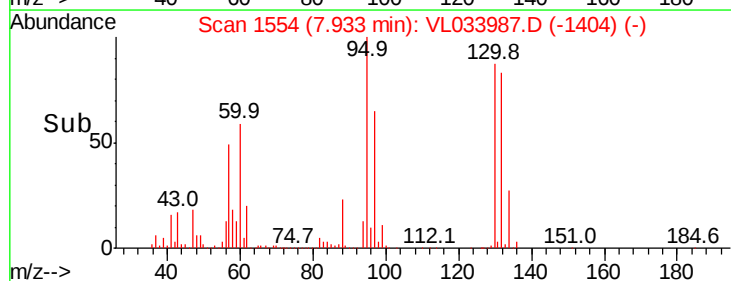
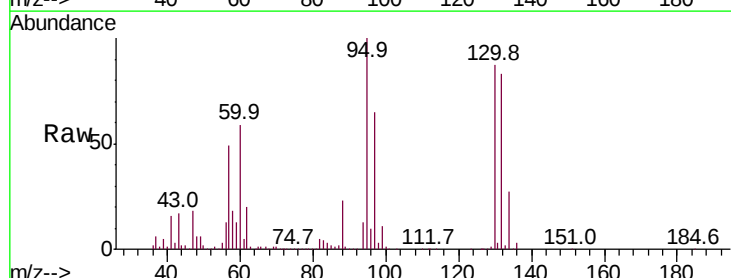
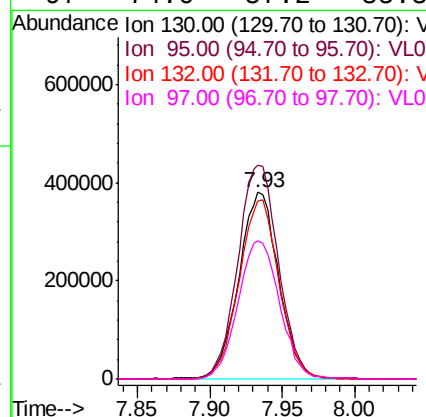
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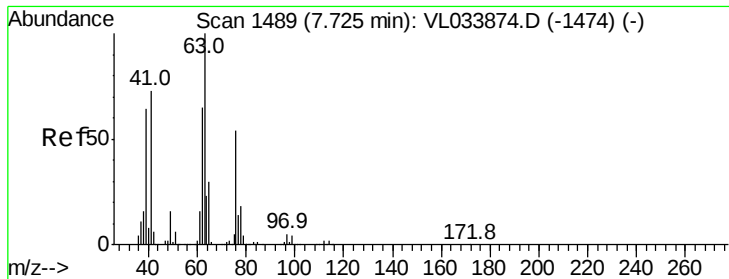
MMDadoda
6/27/2019 3:02:44 PM



#38
Trichloroethene
Concen: 13.856 ppbv
RT: 7.93 min Scan# 1554
Delta R.T. -0.02 min
Lab File: VL033987.D
Acq: 27 Jun 2019 9:44

Tgt Ion: 130 Resp: 724020
Ion Ratio Lower Upper
130 100
95 114.6 92.0 138.0
132 95.6 73.8 110.8
97 74.0 57.2 85.8





#39

1,2-Dichloropropane

Concen: 11.899 ppbv

RT: 7.71 min Scan# 1485

Delta R.T. -0.01 min

Lab File: VL033987.D

Acq: 27 Jun 2019 9:44

Instrument :

MSVOA_L

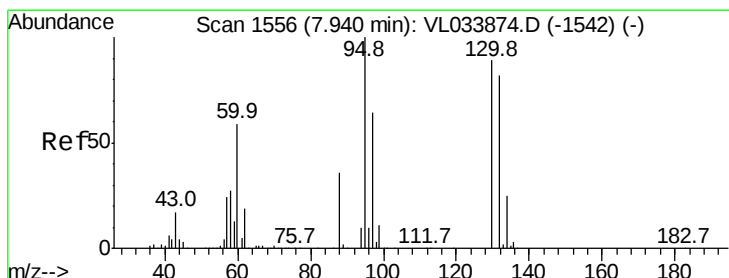
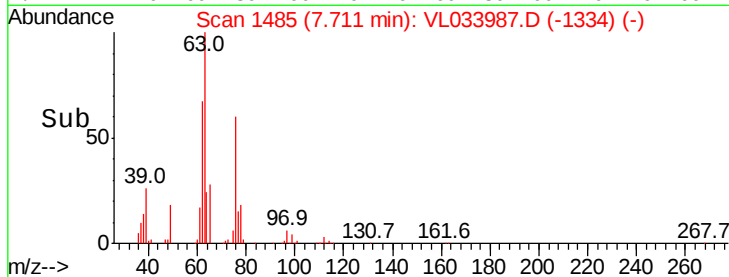
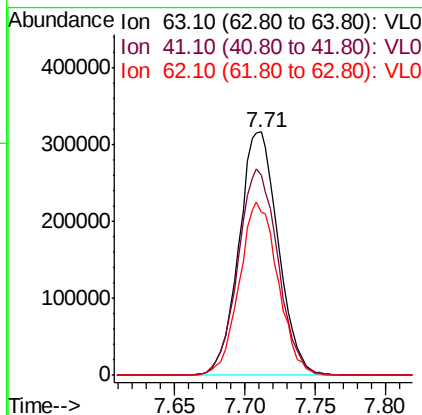
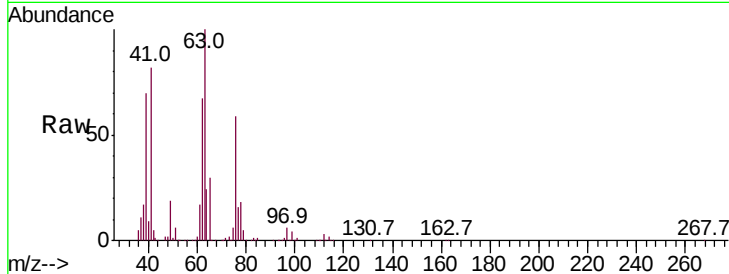
ClientSampleId :

VSTDCCC010EC

Tot Ion:	63	Resp:	616301
Ion Ratio	Lower	Upper	
63	100		
41	82.2	58.7	88.1
62	67.0	51.9	77.9

Manual Integrations
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6/27/2019 3:02:44 PM



#40

1,4-Dioxane

Concen: 10.901 ppbv

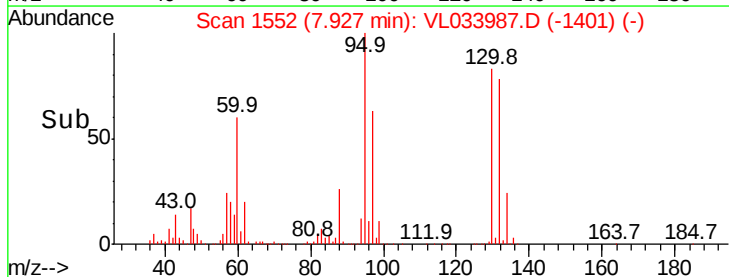
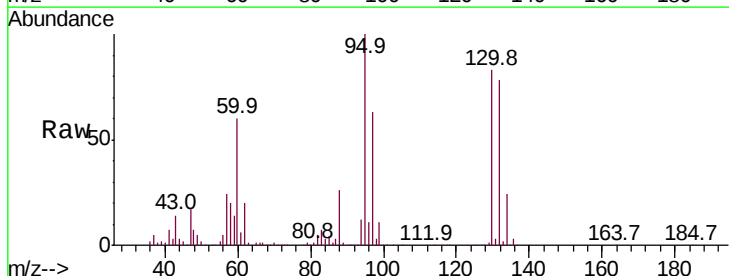
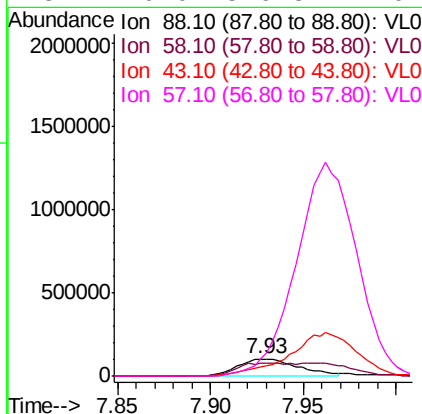
RT: 7.93 min Scan# 1552

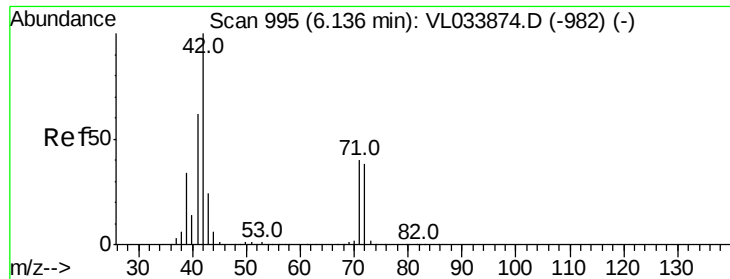
Delta R.T. -0.01 min

Lab File: VL033987.D

Acq: 27 Jun 2019 9:44

Tgt Ion:	88	Resp:	230285
Ion Ratio	Lower	Upper	
88	100		
58	139.1	100.0	150.0
43	0.0	184.7	277.1#
57	0.0	826.8	1240.2#





#41

Tetrahydrofuran

Concen: 12.716 ppbv

RT: 6.12 min Scan# 990

Delta R.T. -0.02 min

Lab File: VL033987.D

Acq: 27 Jun 2019 9:44

Instrument :

MSVOA_L

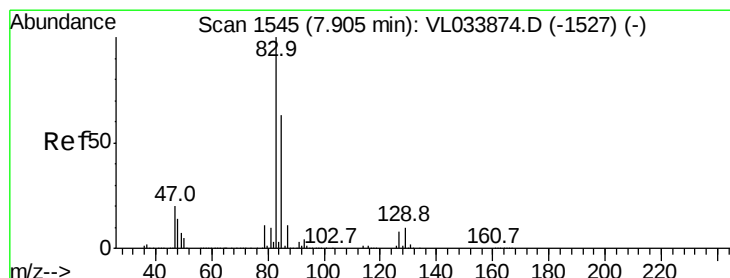
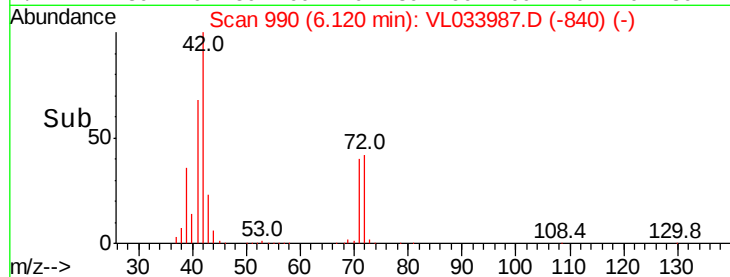
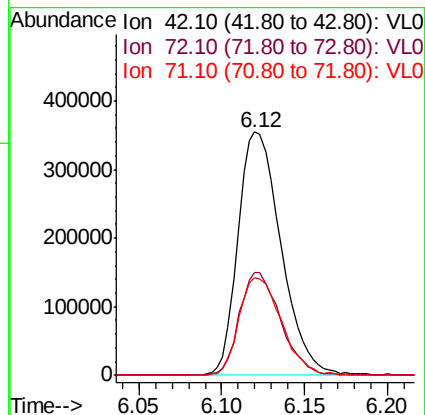
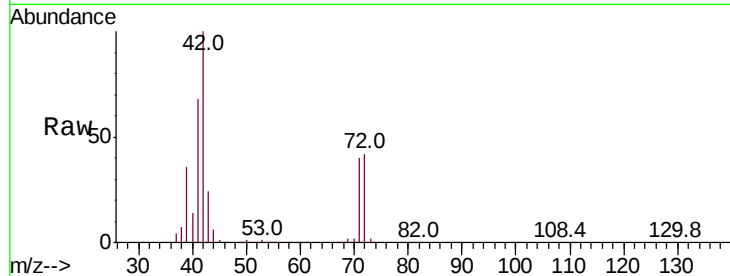
ClientSampleId :

VSTDCCC010EC

Tot Ion:	42	Resp:	639667
Ion Ratio	Lower	Upper	
42	100		
72	40.8	32.2	48.4
71	39.9	31.7	47.5

Manual Integrations
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MMDadoda
6/27/2019 3:02:44 PM



#42

Bromodichloromethane

Concen: 12.359 ppbv

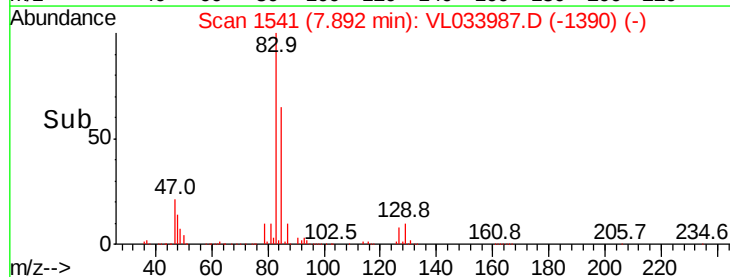
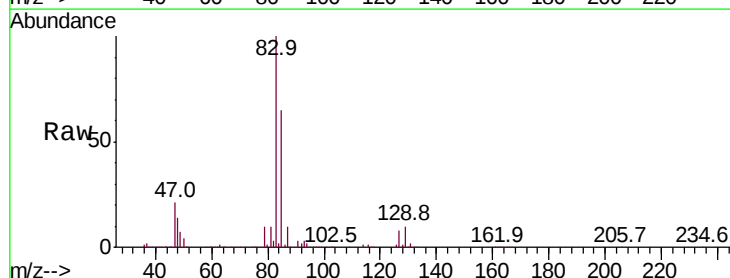
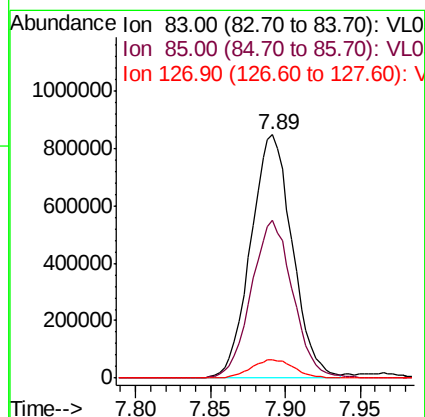
RT: 7.89 min Scan# 1541

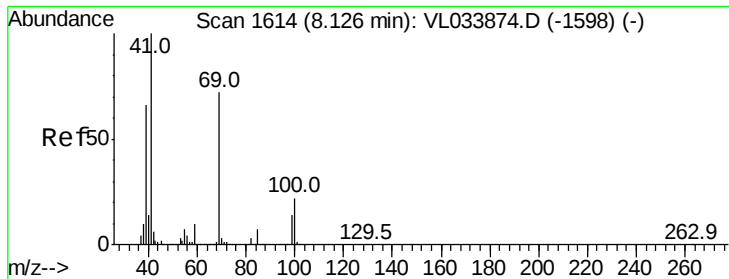
Delta R.T. -0.01 min

Lab File: VL033987.D

Acq: 27 Jun 2019 9:44

Tgt Ion:	83	Resp:	1639249
Ion Ratio	Lower	Upper	
83	100		
85	65.0	50.2	75.2
127	7.6	6.5	9.7





#43

Methyl Methacrylate

Concen: 13.437 ppbv

RT: 8.11 min Scan# 1609

Delta R.T. -0.02 min

Lab File: VL033987.D

Acq: 27 Jun 2019 9:44

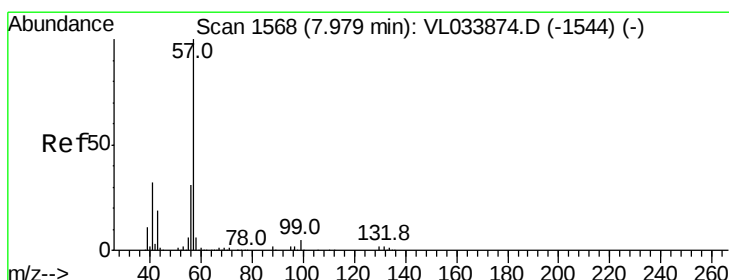
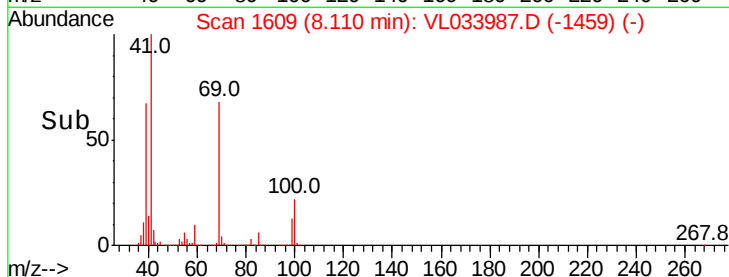
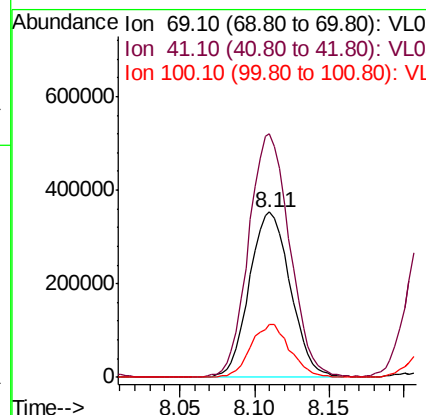
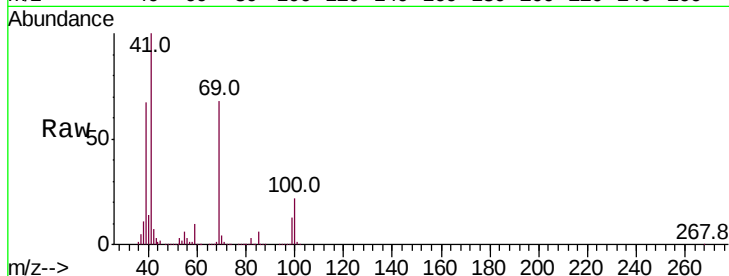
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 69 Resp: 674421

Ion	Ratio	Lower	Upper
69	100		
41	147.4	114.3	171.5
100	30.8	24.8	37.2

Manual Integrations
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MMDadoda
6/27/2019 3:02:44 PM



#44

2,2,4-Trimethylpentane

Concen: 12.226 ppbv

RT: 7.96 min Scan# 1563

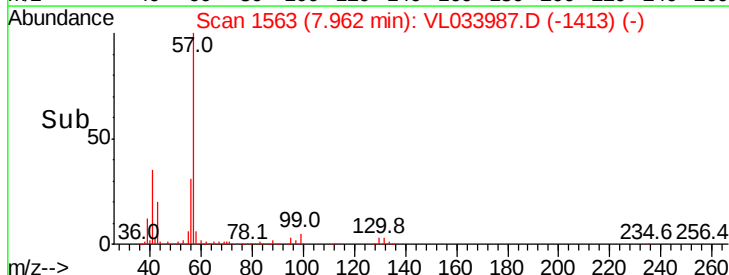
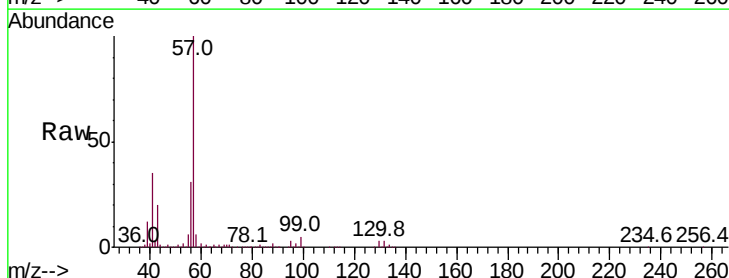
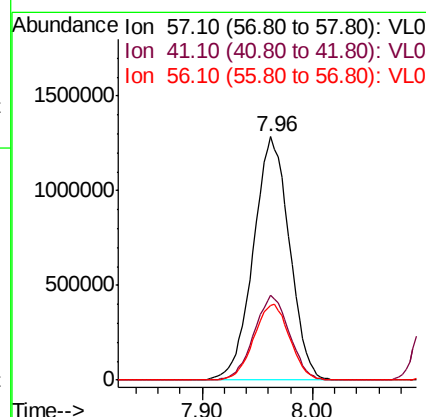
Delta R.T. -0.02 min

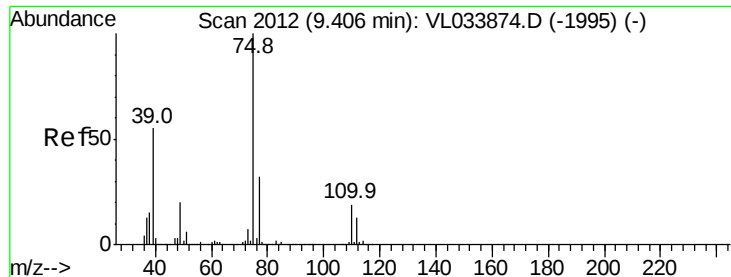
Lab File: VL033987.D

Acq: 27 Jun 2019 9:44

Tgt Ion: 57 Resp: 2917868

Ion	Ratio	Lower	Upper
57	100		
41	34.0	26.1	39.1
56	30.9	24.6	36.8





#45

t-1,3-Dichloropropene

Concen: 14.241 ppbv

RT: 9.39 min Scan# 2006

Delta R.T. -0.02 min

Lab File: VL033987.D

Acq: 27 Jun 2019 9:44

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 75 Resp: 937920

Ion Ratio Lower Upper

75 100

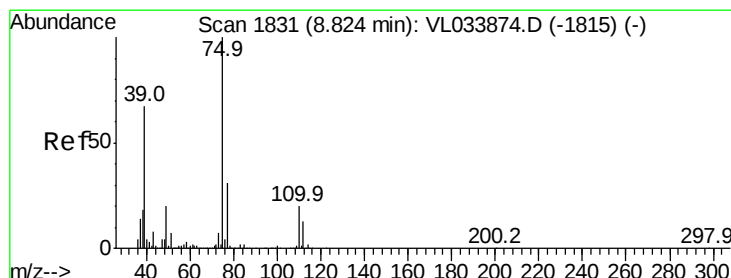
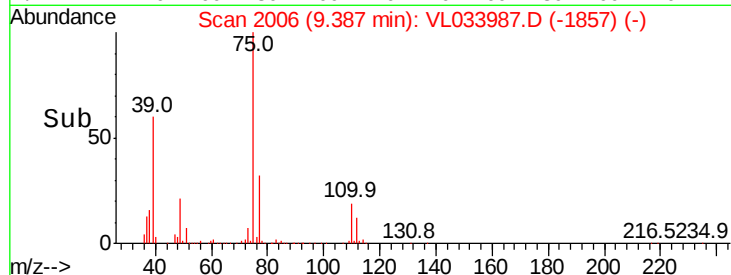
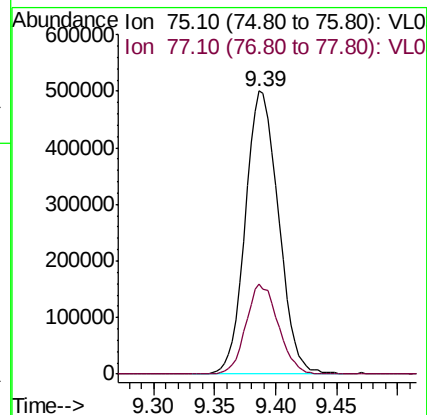
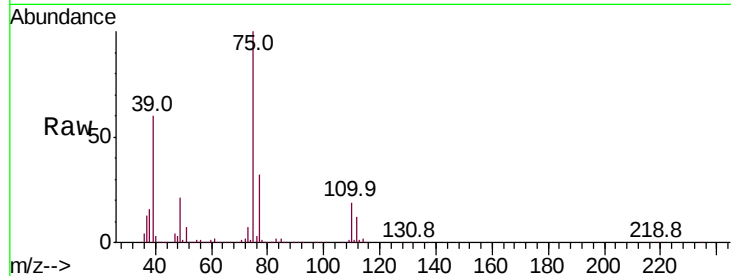
77 32.0 25.4 38.2

Manual Integrations

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#46

cis-1,3-Dichloropropene

Concen: 14.000 ppbv

RT: 8.81 min Scan# 1826

Delta R.T. -0.02 min

Lab File: VL033987.D

Acq: 27 Jun 2019 9:44

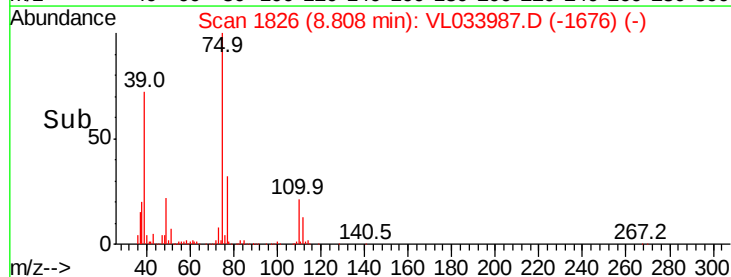
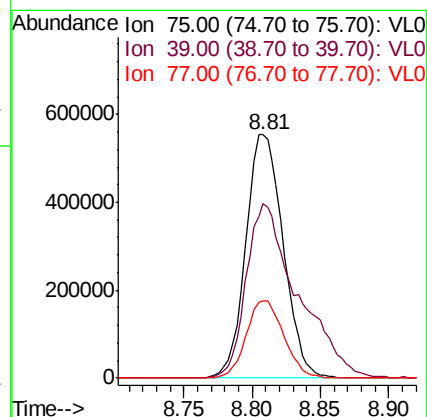
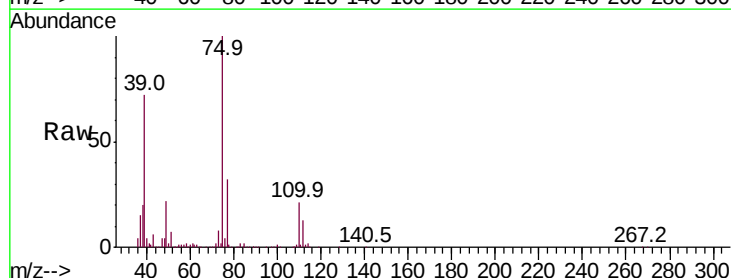
Tgt Ion: 75 Resp: 1056345

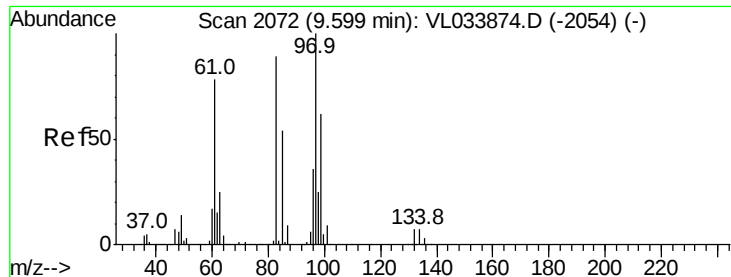
Ion Ratio Lower Upper

75 100

39 71.8 53.8 80.8

77 31.8 24.6 36.8





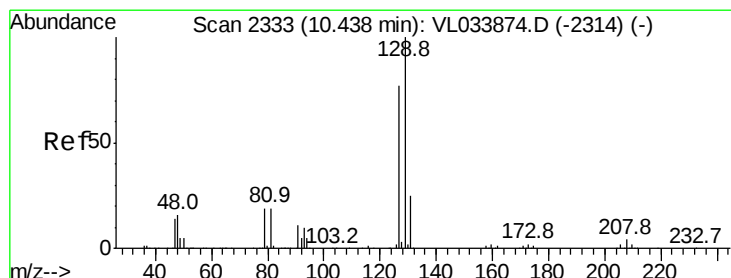
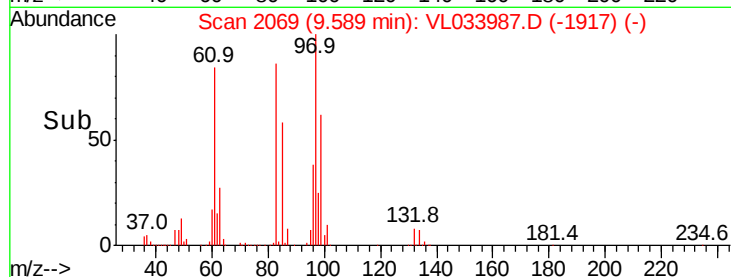
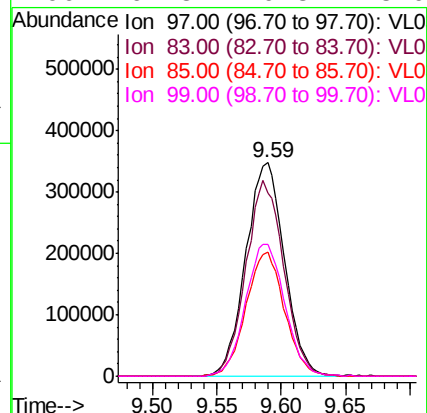
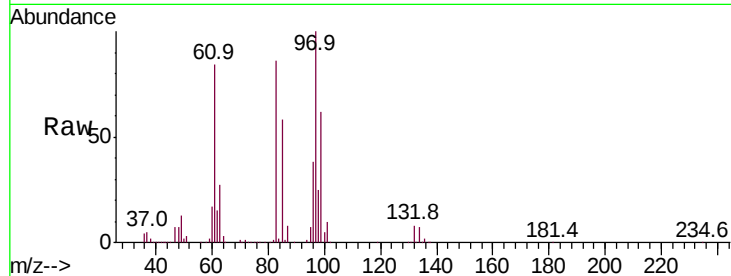
#47
 1,1,2-Trichloroethane
 Concen: 11.787 ppbv
 RT: 9.59 min Scan# 2069
 Delta R.T. -0.01 min
 Lab File: VL033987.D
 Acq: 27 Jun 2019 9:44

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
97	100		
83	85.9	70.9	106.3
85	58.2	43.0	64.6
99	61.8	49.3	73.9

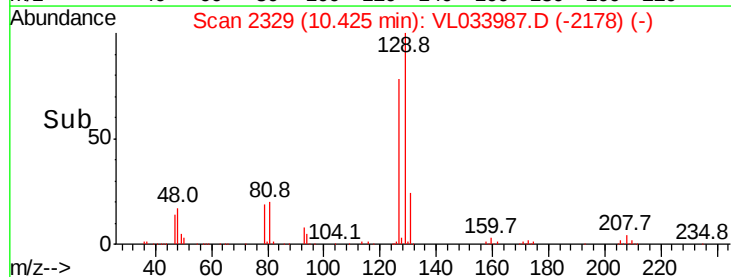
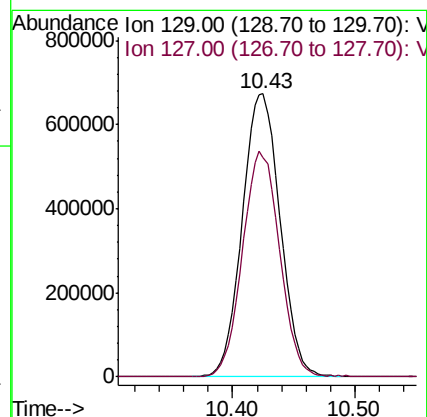
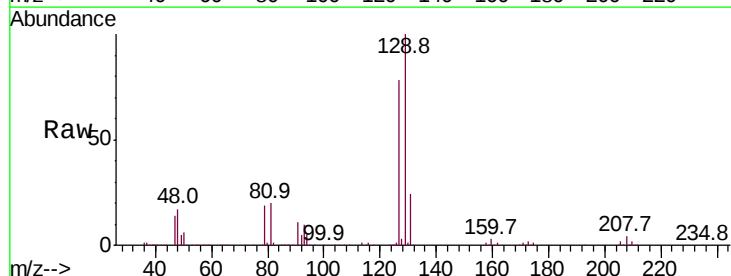
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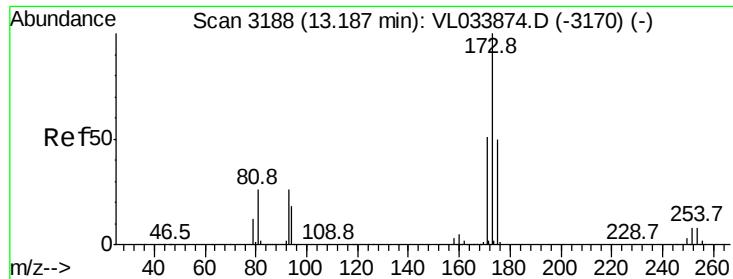
MMDadoda
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#48
 Dibromochloromethane
 Concen: 12.990 ppbv
 RT: 10.43 min Scan# 2329
 Delta R.T. -0.01 min
 Lab File: VL033987.D
 Acq: 27 Jun 2019 9:44

Tgt Ion	Ratio	Lower	Upper
129	100		
127	78.3	38.6	115.7





#49

Bromoform

Concen: 14.540 ppbv

RT: 13.17 min Scan# 3183

Delta R.T. -0.02 min

Lab File: VL033987.D

Acq: 27 Jun 2019 9:44

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:173 Resp: 1424355

Ion Ratio Lower Upper

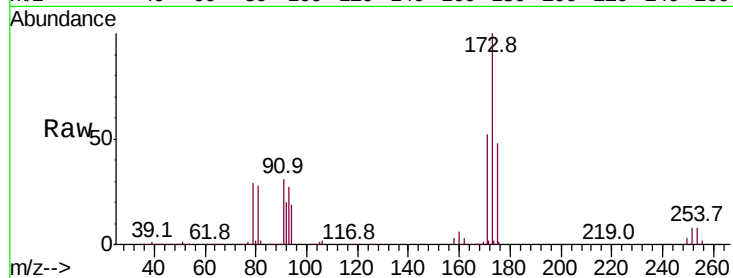
173 100

175 49.4 39.6 59.4

171 52.4 41.8 62.8

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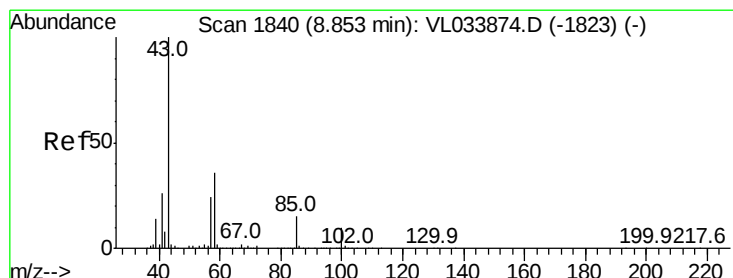
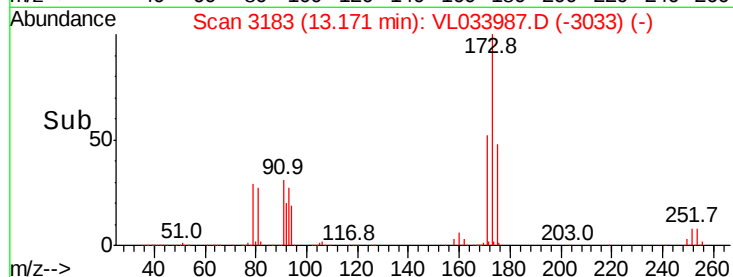
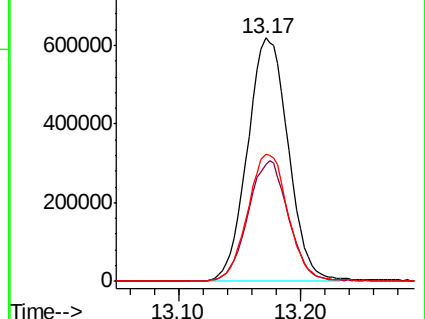
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Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 12.622 ppbv

RT: 8.84 min Scan# 1837

Delta R.T. -0.01 min

Lab File: VL033987.D

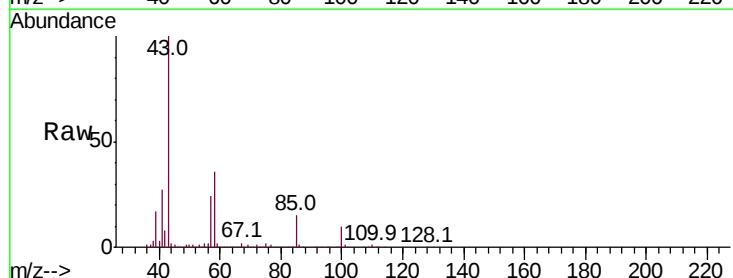
Acq: 27 Jun 2019 9:44

Tgt Ion: 43 Resp: 1865504

Ion Ratio Lower Upper

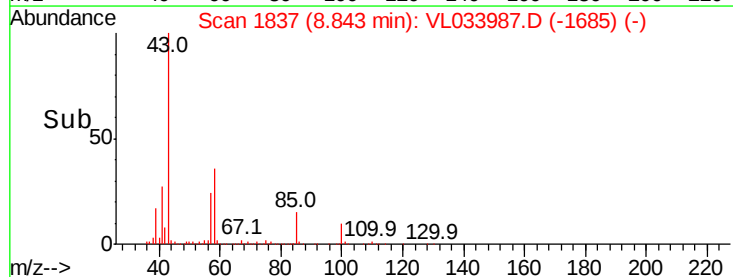
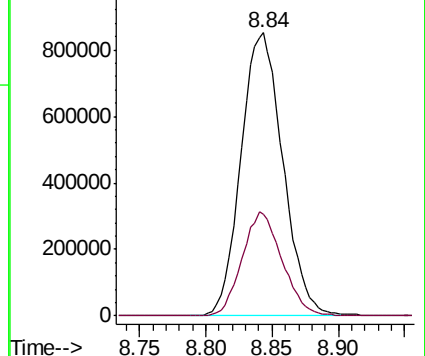
43 100

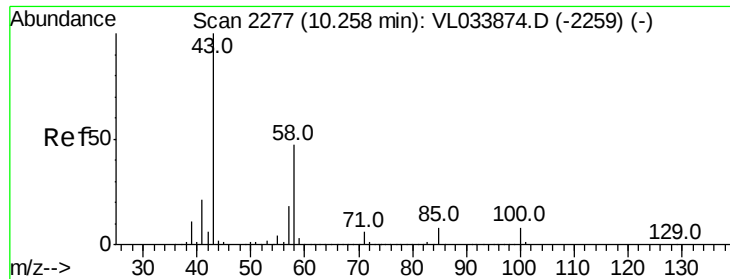
58 35.3 28.6 42.8



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





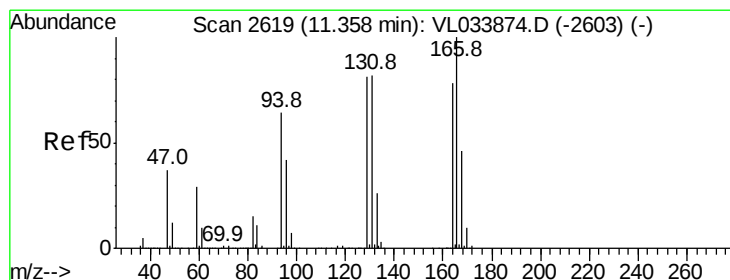
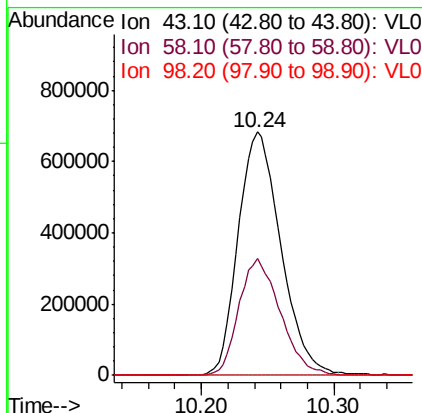
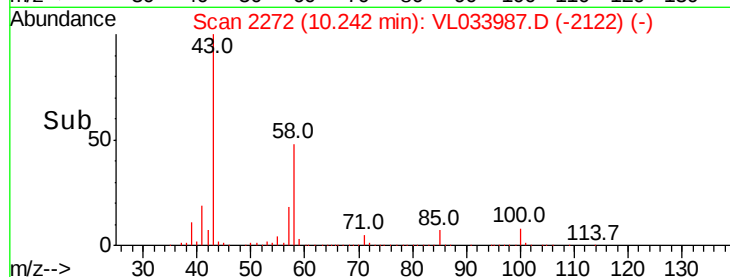
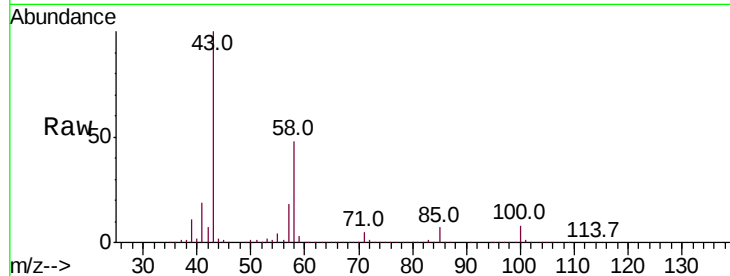
#51
2-Hexanone
Concen: 13.225 ppbv
RT: 10.24 min Scan# 2272
Delta R.T. -0.02 min
Lab File: VL033987.D
Acq: 27 Jun 2019 9:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 43 Resp: 1526320
Ion Ratio Lower Upper
43 100
58 47.0 38.2 57.4
98 0.2 0.2 0.2

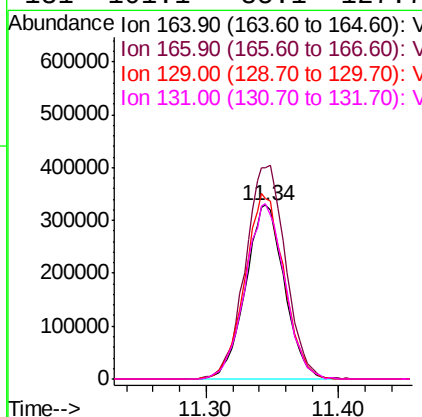
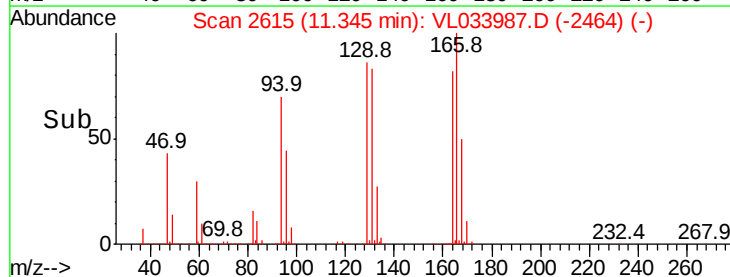
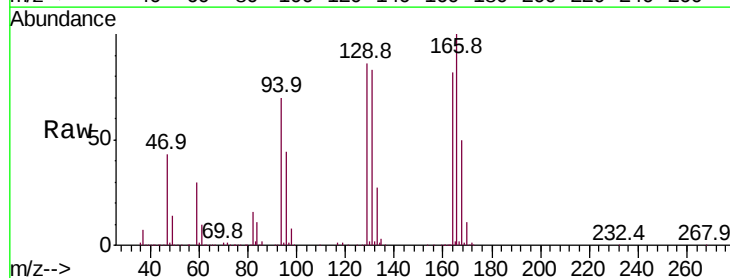
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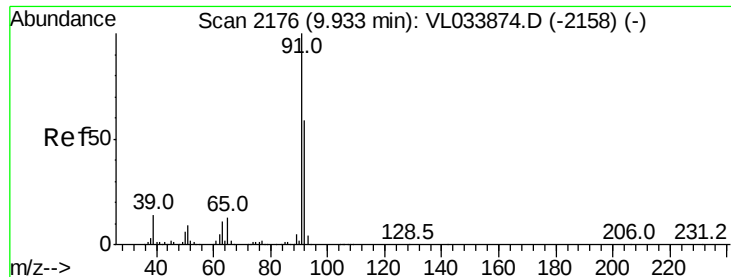
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#52
Tetrachloroethene
Concen: 14.165 ppbv
RT: 11.34 min Scan# 2615
Delta R.T. -0.01 min
Lab File: VL033987.D
Acq: 27 Jun 2019 9:44

Tgt Ion: 164 Resp: 668918
Ion Ratio Lower Upper
164 100
166 121.3 103.1 154.7
129 104.0 83.9 125.9
131 101.1 85.1 127.7





#53

Toluene

Concen: 13.440 ppbv

RT: 9.92 min Scan# 2171

Delta R.T. -0.02 min

Lab File: VL033987.D

Acq: 27 Jun 2019 9:44

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 91 Resp: 1996080

Ion Ratio Lower Upper

91 100

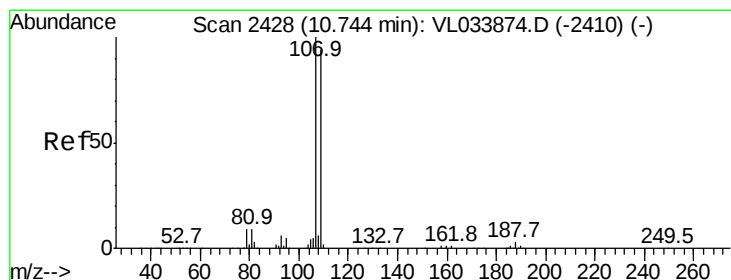
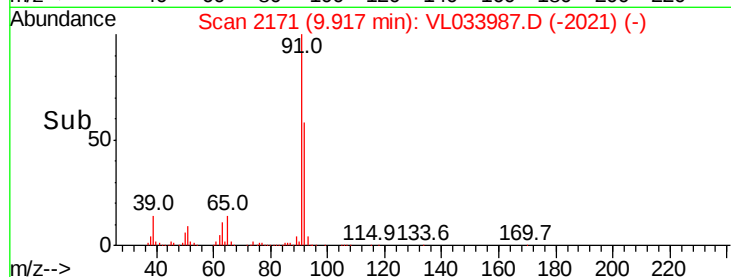
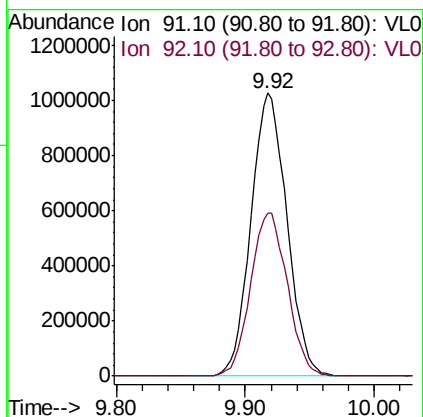
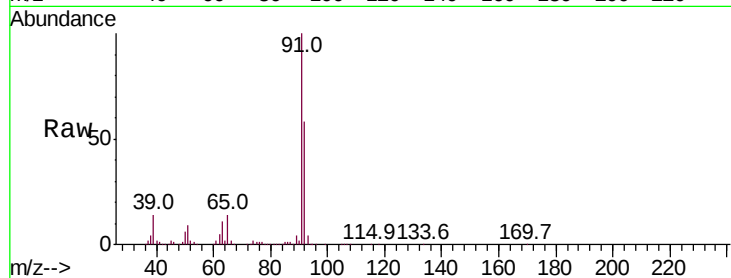
92 59.1 47.0 70.6

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#54

1,2-Dibromoethane

Concen: 12.532 ppbv

RT: 10.73 min Scan# 2425

Delta R.T. -0.01 min

Lab File: VL033987.D

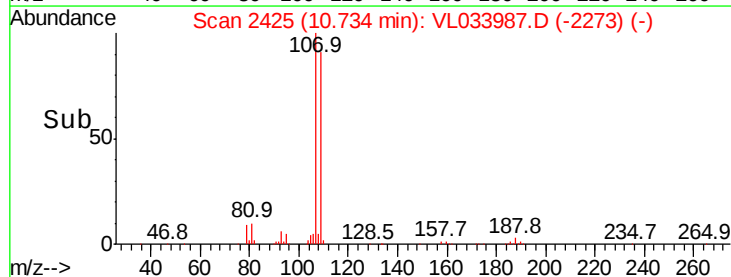
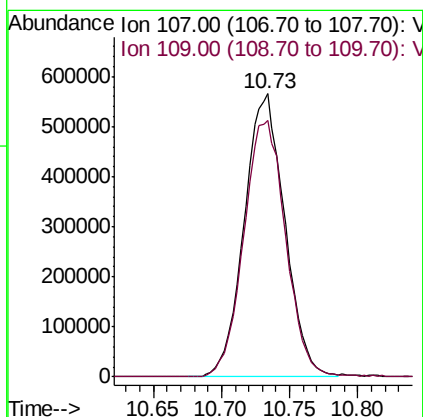
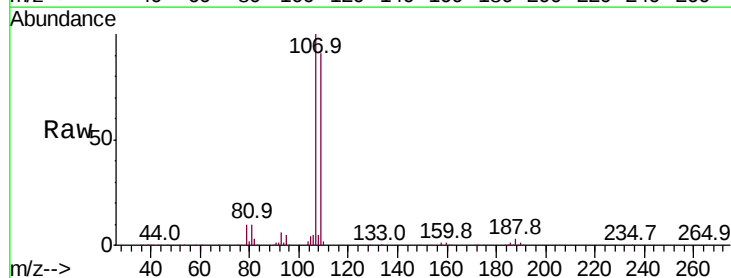
Acq: 27 Jun 2019 9:44

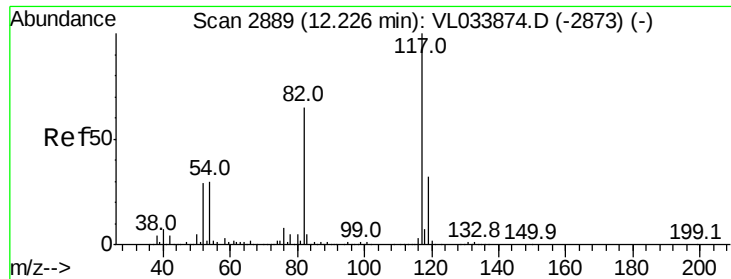
Tgt Ion: 107 Resp: 1166495

Ion Ratio Lower Upper

107 100

109 90.7 74.9 112.3





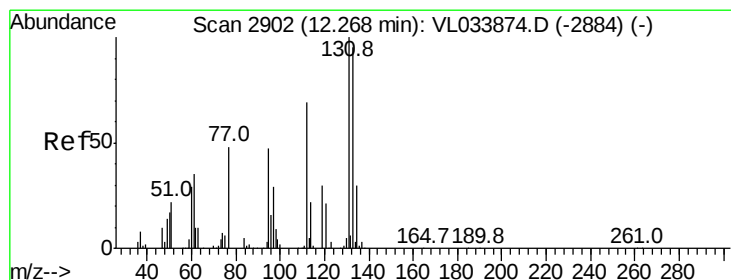
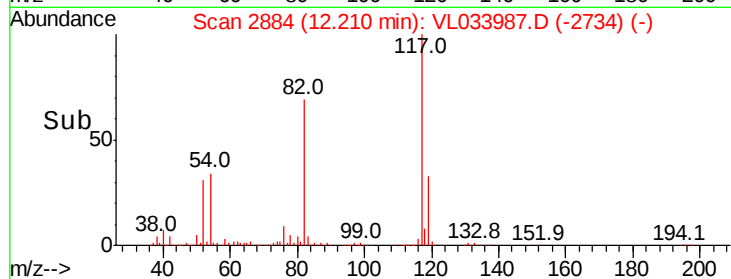
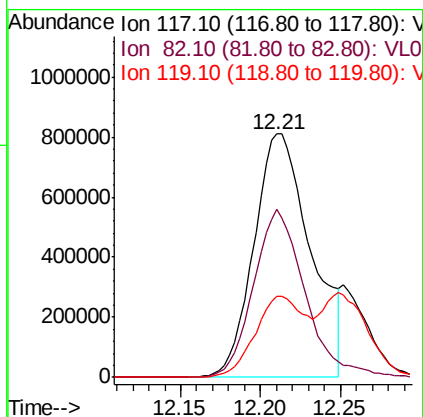
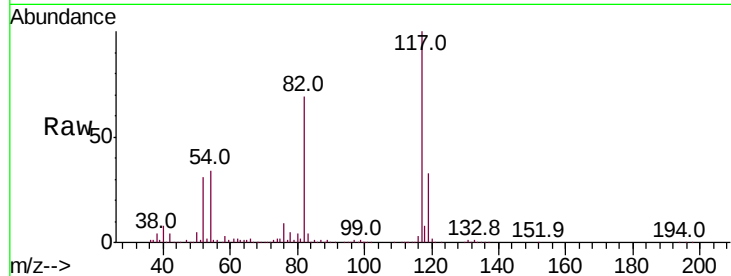
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.21 min Scan# 2884
Delta R.T. -0.02 min
Lab File: VL033987.D
Acq: 27 Jun 2019 9:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion:117 Resp: 1997622
Ion Ratio Lower Upper
117 100
82 62.7 50.2 75.2
119 31.4 24.8 37.2

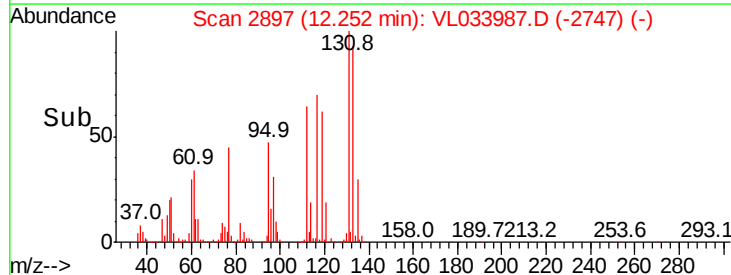
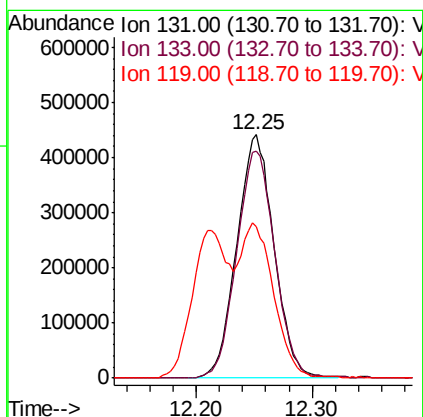
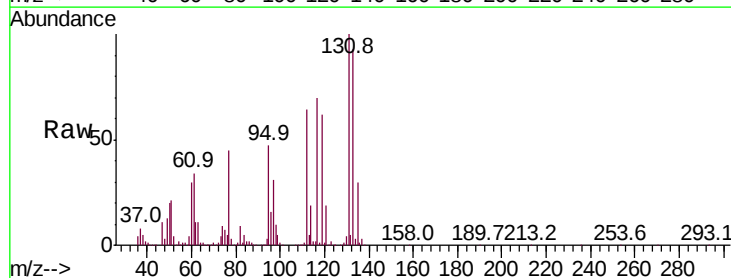
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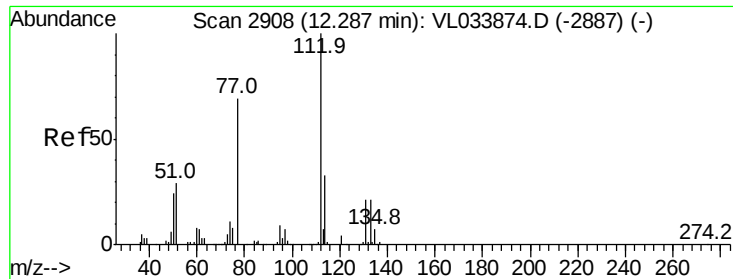
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#56
1,1,1,2-Tetrachloroethane
Concen: 11.270 ppbv
RT: 12.25 min Scan# 2897
Delta R.T. -0.02 min
Lab File: VL033987.D
Acq: 27 Jun 2019 9:44

Tgt Ion:131 Resp: 983476
Ion Ratio Lower Upper
131 100
133 95.7 76.5 114.7
119 54.4 42.6 64.0





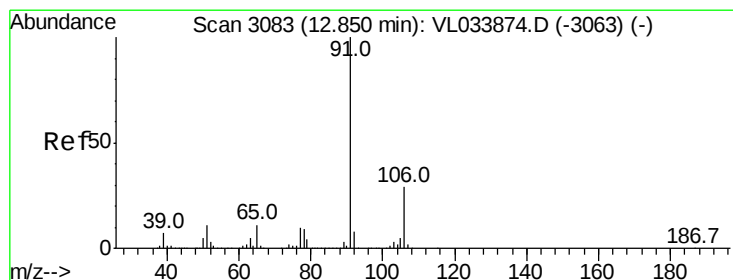
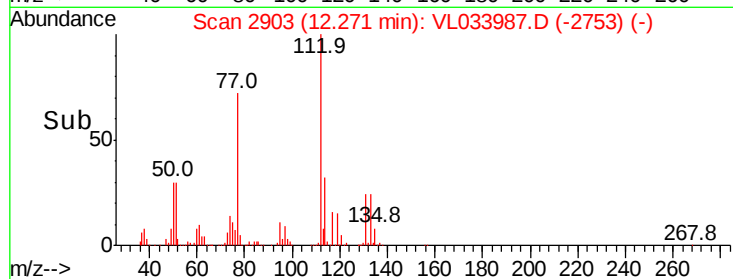
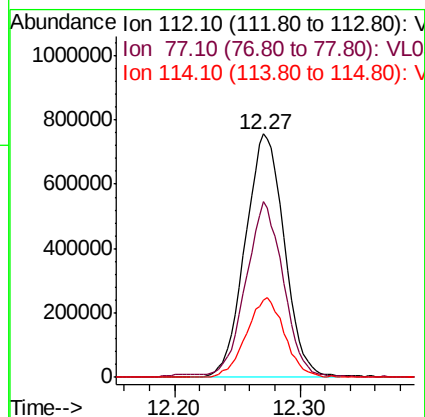
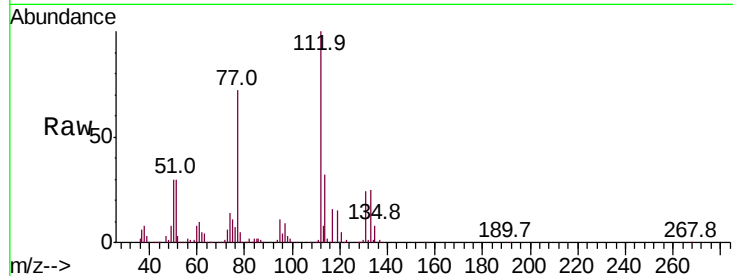
#57
Chlorobenzene
Concen: 10.931 ppbv
RT: 12.27 min Scan# 2903
Delta R.T. -0.02 min
Lab File: VL033987.D
Acq: 27 Jun 2019 9:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
112	100		
77	71.3	55.8	83.6
114	31.9	29.8	36.4

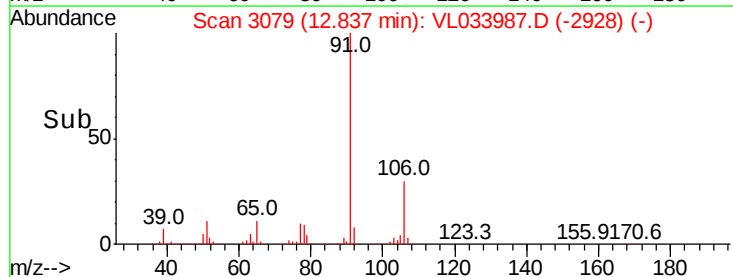
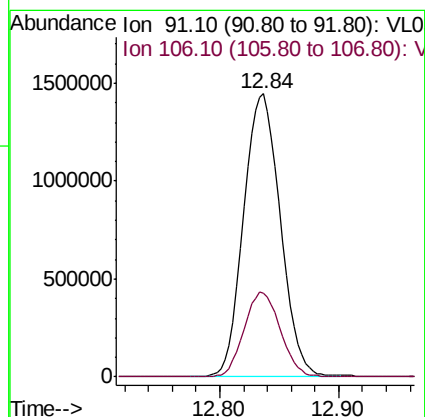
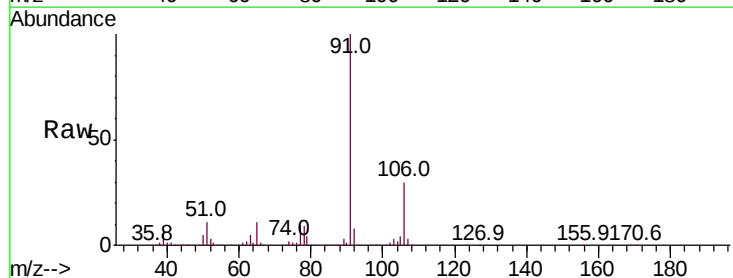
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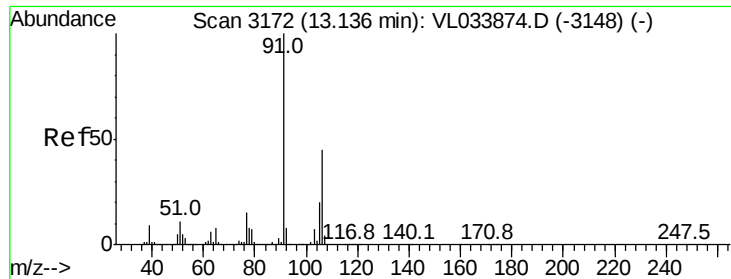
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#58
Ethyl Benzene
Concen: 13.740 ppbv
RT: 12.84 min Scan# 3079
Delta R.T. -0.01 min
Lab File: VL033987.D
Acq: 27 Jun 2019 9:44

Tgt Ion	Ratio	Lower	Upper
91	100		
106	29.5	23.0	34.6





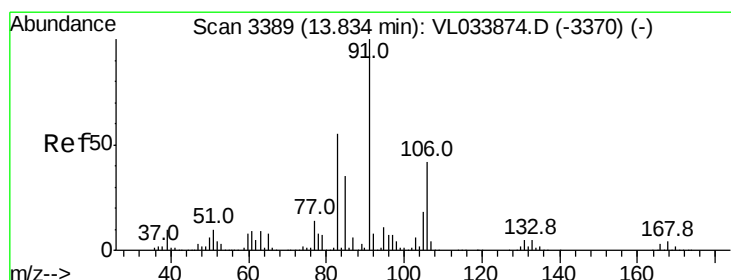
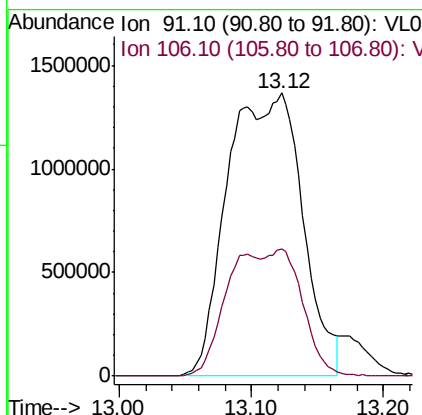
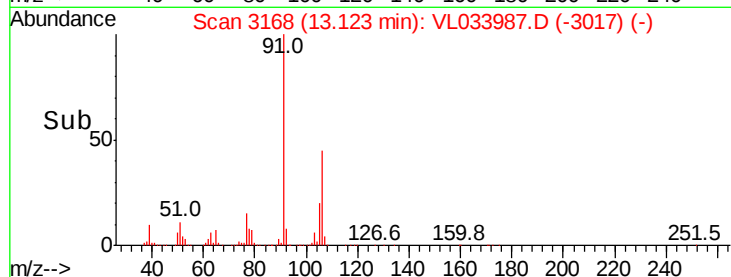
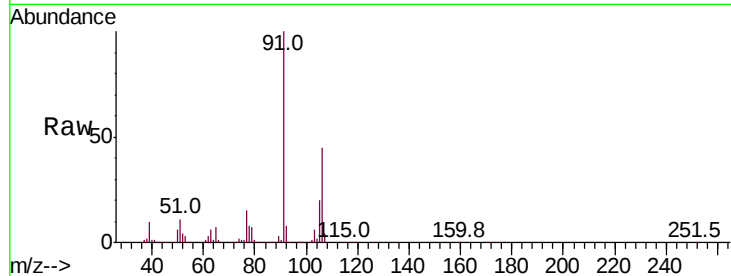
#59
m/p-Xylene
Concen: 26.201 ppbv m
RT: 13.12 min Scan# 3168
Delta R.T. -0.01 min
Lab File: VL033987.D
Acq: 27 Jun 2019 9:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 91 Resp: 5366125
Ion Ratio Lower Upper
91 100
106 44.4 35.8 53.8

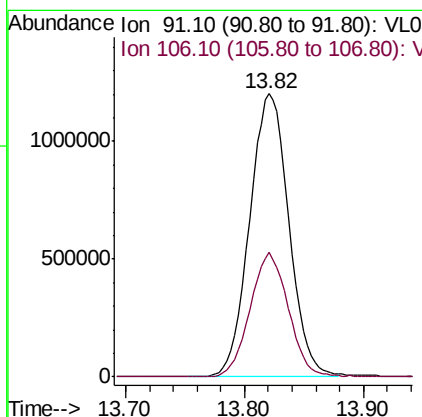
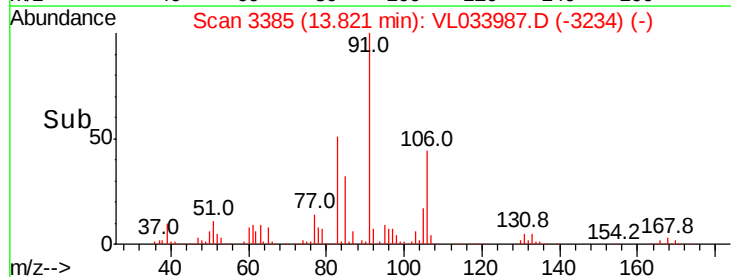
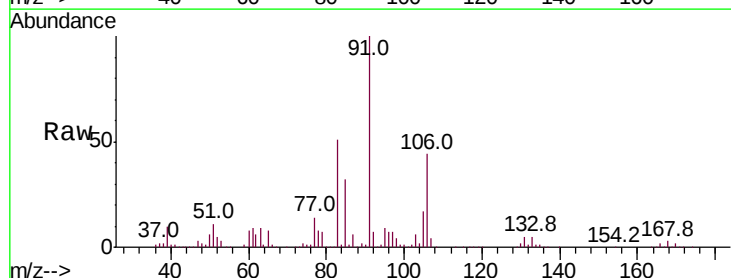
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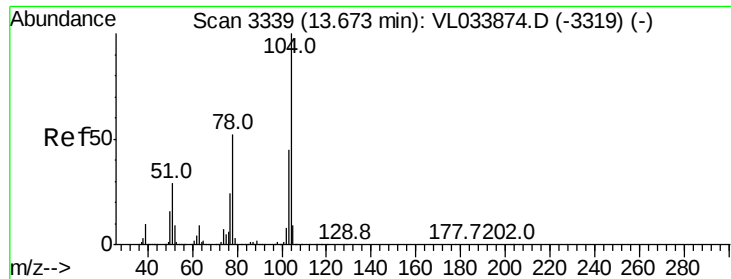
MMDadoda
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#60
o-Xylene
Concen: 12.969 ppbv
RT: 13.82 min Scan# 3385
Delta R.T. -0.01 min
Lab File: VL033987.D
Acq: 27 Jun 2019 9:44

Tgt Ion: 91 Resp: 2742382
Ion Ratio Lower Upper
91 100
106 43.0 21.7 65.1





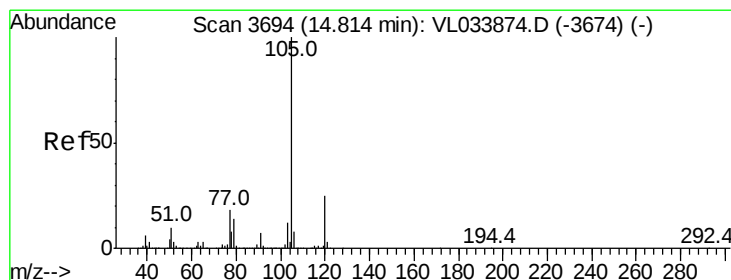
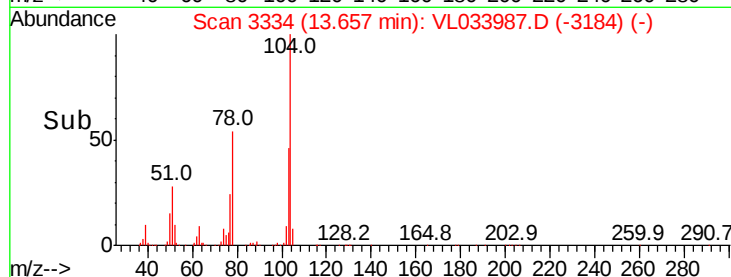
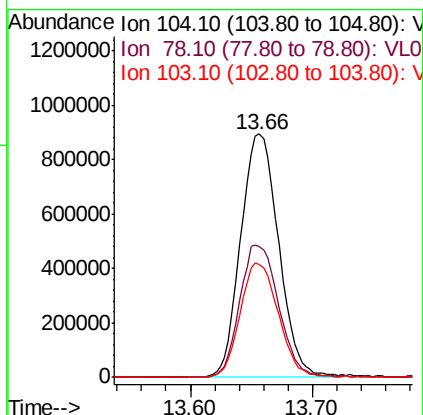
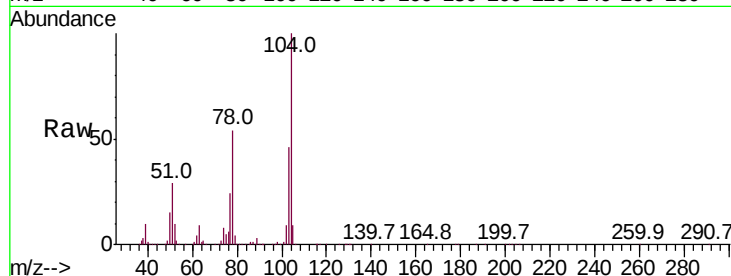
#61
Stvrene
Concen: 14.060 ppbv
RT: 13.66 min Scan# 3334
Delta R.T. -0.02 min
Lab File: VL033987.D
Acq: 27 Jun 2019 9:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
104	100		
78	56.2	43.4	65.0
103	47.6	37.6	56.4

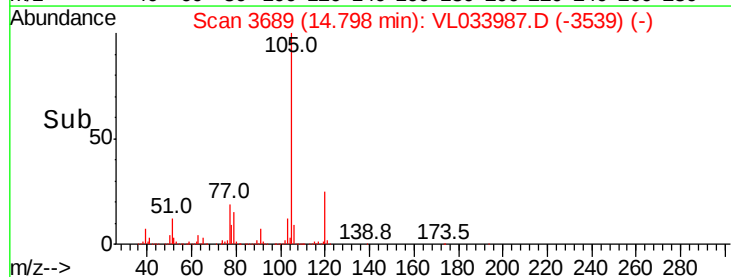
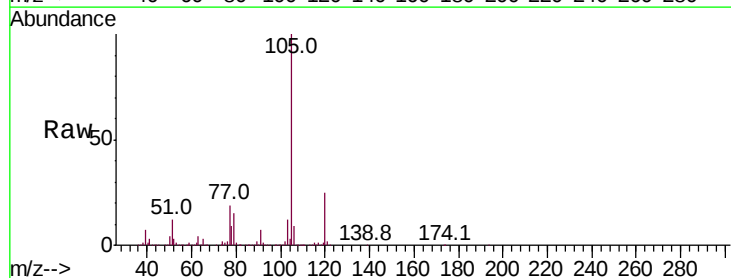
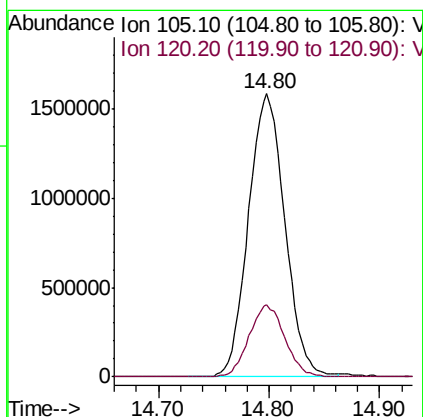
Manual Integrations
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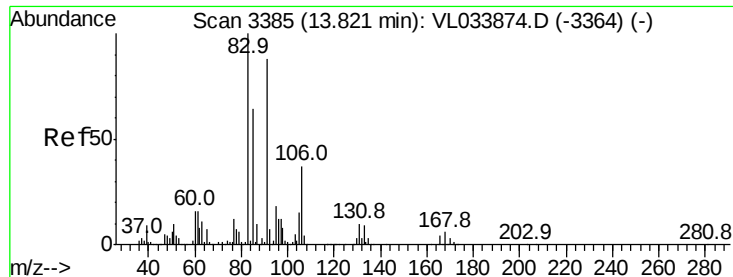
MMDadoda
6/27/2019 3:02:44 PM



#62
Isopropylbenzene
Concen: 12.754 ppbv
RT: 14.80 min Scan# 3689
Delta R.T. -0.02 min
Lab File: VL033987.D
Acq: 27 Jun 2019 9:44

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.2	20.3	30.5





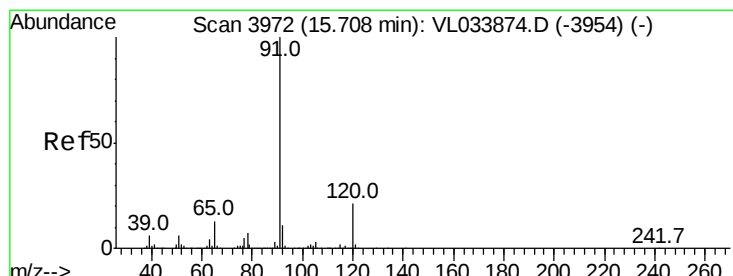
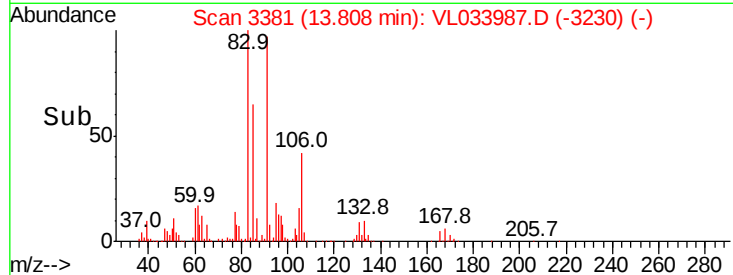
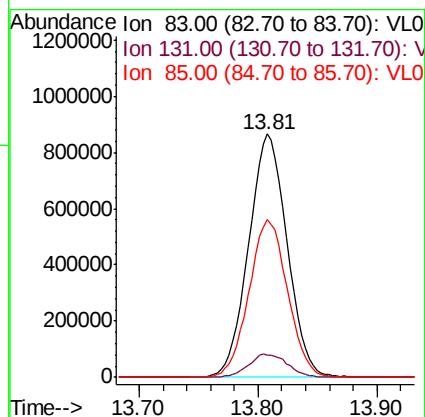
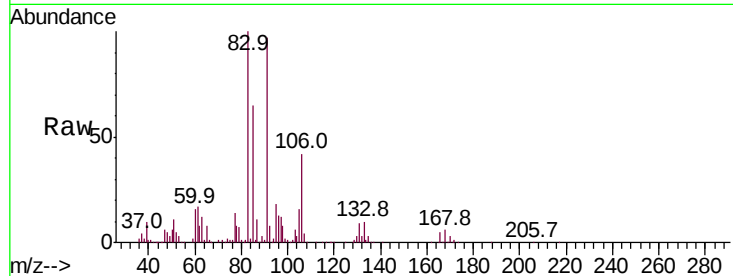
#63
 1,1,2,2-Tetrachloroethane
 Concen: 12.152 ppbv
 RT: 13.81 min Scan# 3381
 Delta R.T. -0.01 min
 Lab File: VL033987.D
 Acq: 27 Jun 2019 9:44

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
83	100		
131	9.7	4.8	14.4
85	65.3	32.1	96.3

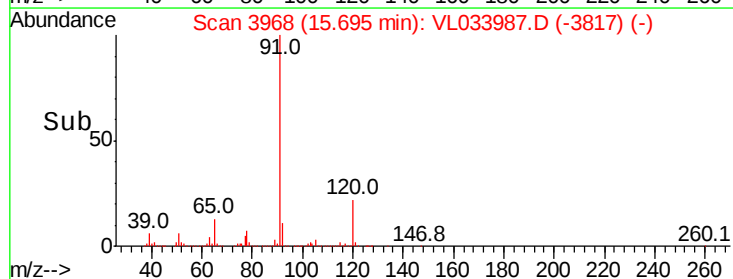
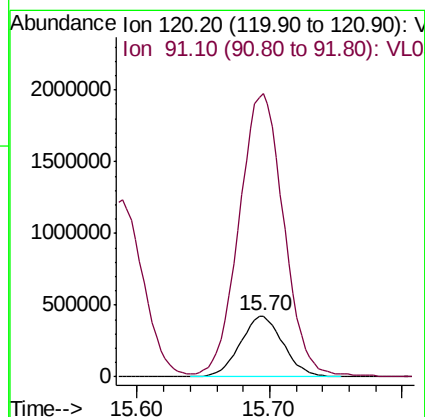
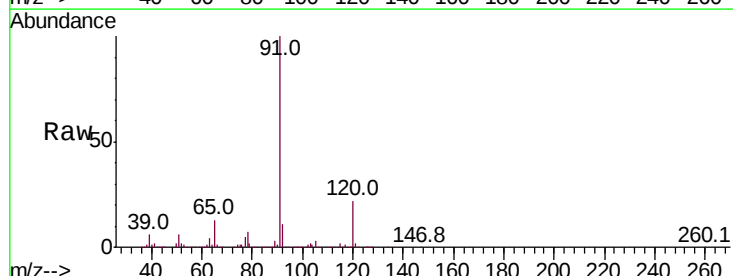
Manual Integrations
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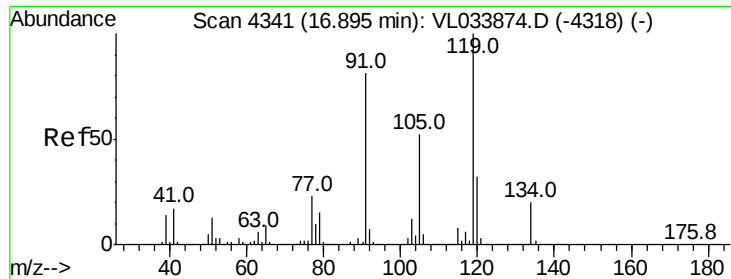
MMDadoda
 6/27/2019 3:02:44 PM



#64
 n-propylbenzene
 Concen: 13.075 ppbv
 RT: 15.70 min Scan# 3968
 Delta R.T. -0.01 min
 Lab File: VL033987.D
 Acq: 27 Jun 2019 9:44

Tgt Ion	Ratio	Lower	Upper
120	100		
91	488.4	387.0	580.6





#65

tert-Butylbenzene

Concen: 13.188 ppbv

RT: 16.88 min Scan# 4336

Delta R.T. -0.02 min

Lab File: VL033987.D

Acq: 27 Jun 2019 9:44

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:119 Resp: 3477811

Ion Ratio Lower Upper

119 100

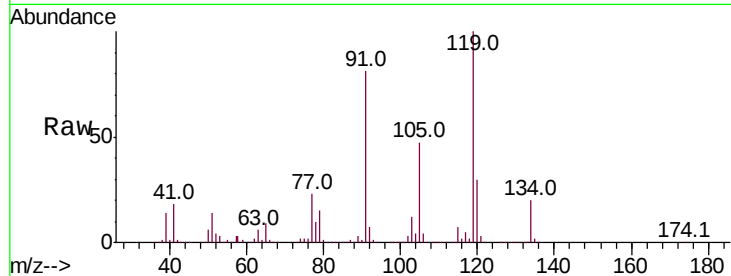
91 84.5 66.6 100.0

134 19.3 15.5 23.3

Manual Integrations
APPROVED

MMDadoda

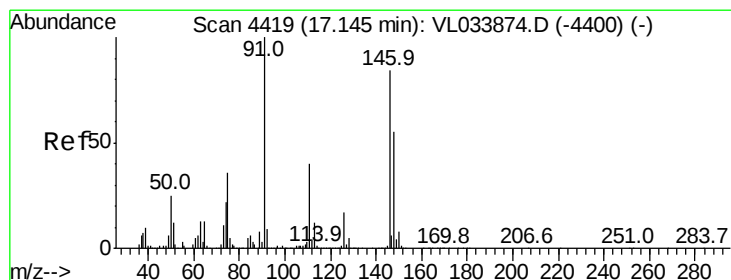
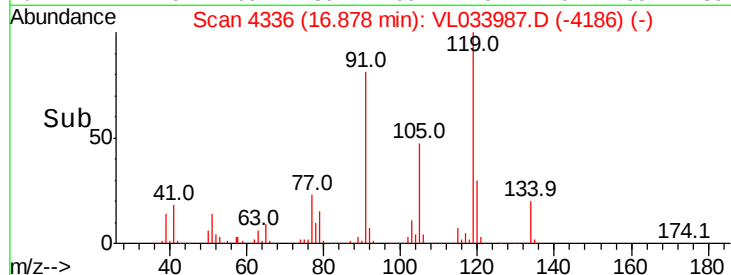
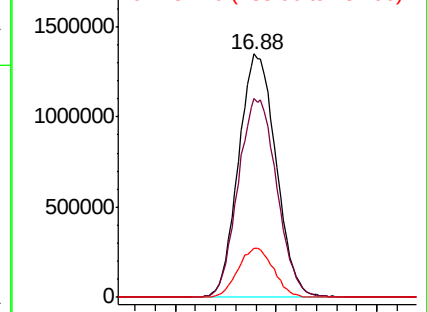
6/27/2019 3:02:44 PM



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: 13.761 ppbv

RT: 17.13 min Scan# 4414

Delta R.T. -0.02 min

Lab File: VL033987.D

Acq: 27 Jun 2019 9:44

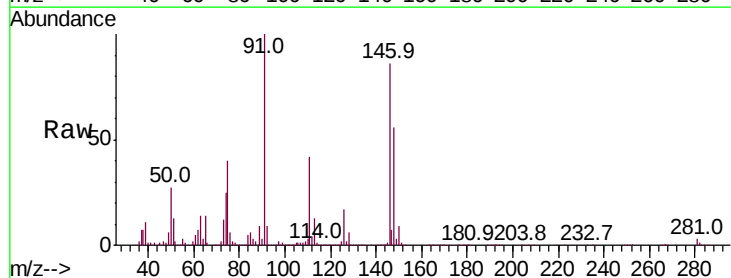
Tgt Ion: 91 Resp: 1839094

Ion Ratio Lower Upper

91 100

126 16.9 13.8 20.6

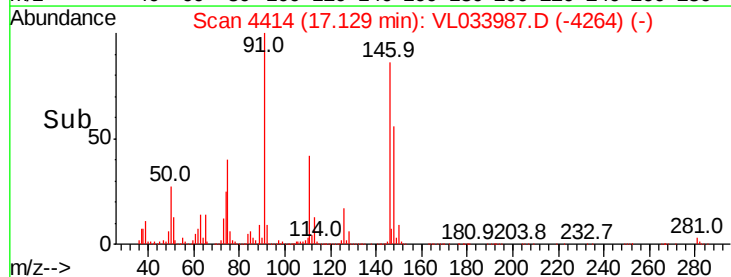
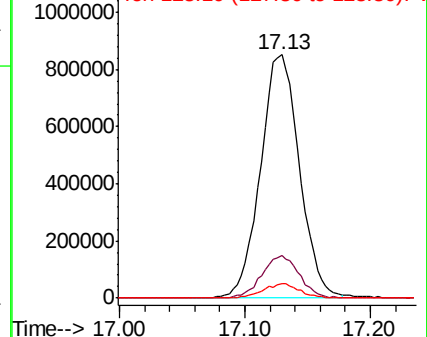
128 5.6 4.4 6.6

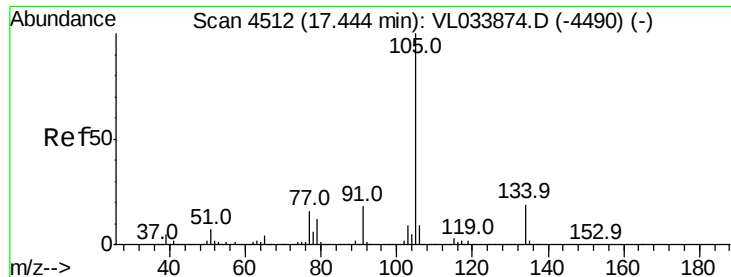


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





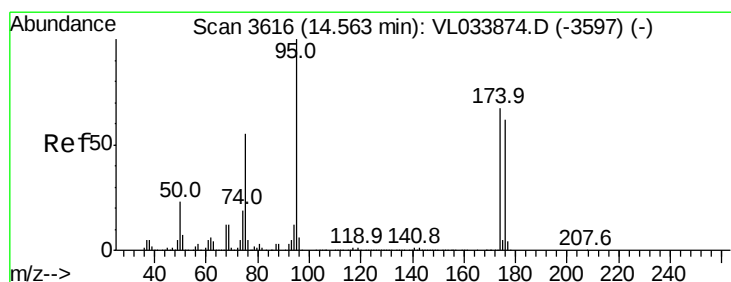
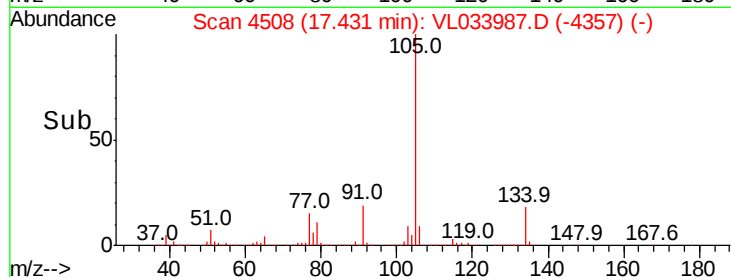
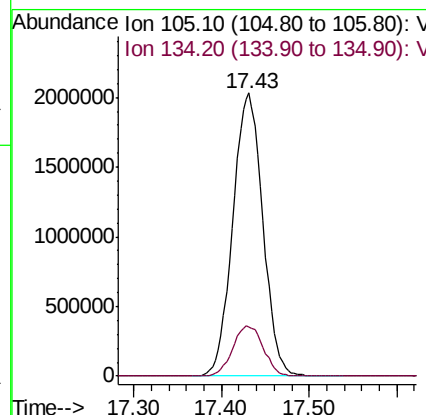
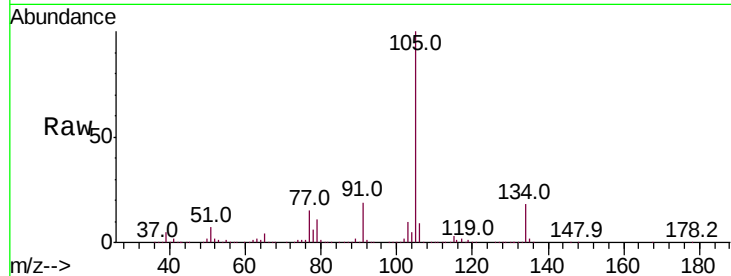
#67
 sec-Butylbenzene
 Concen: 13.008 ppbv
 RT: 17.43 min Scan# 4508
 Delta R.T. -0.01 min
 Lab File: VL033987.D
 Acq: 27 Jun 2019 9:44

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:105 Resp: 4812367
 Ion Ratio Lower Upper
 105 100
 134 18.2 14.6 22.0

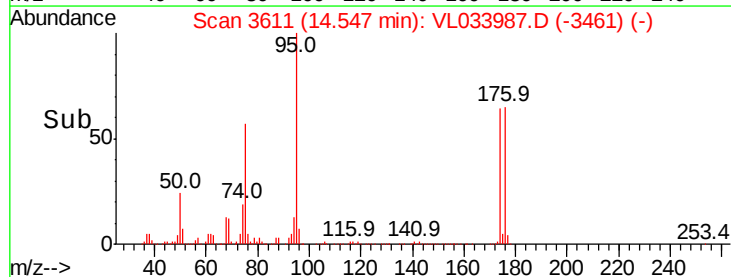
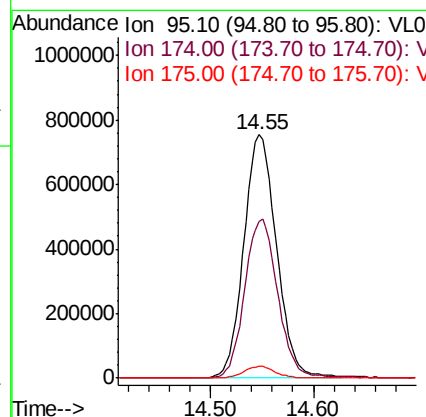
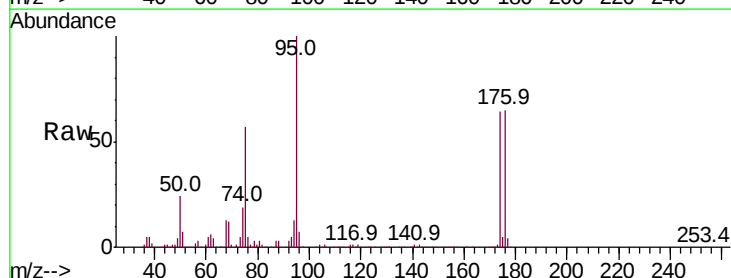
Manual Integrations
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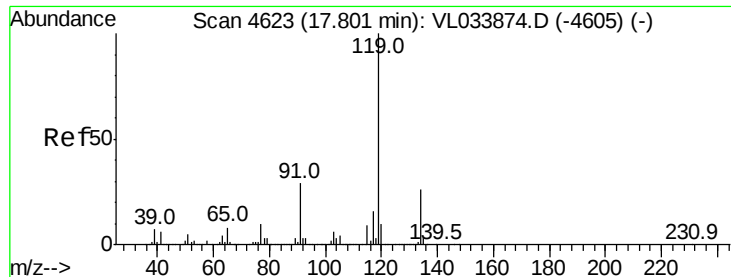
MMDadoda
 6/27/2019 3:02:44 PM



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.169 ppbv
 RT: 14.55 min Scan# 3611
 Delta R.T. -0.02 min
 Lab File: VL033987.D
 Acq: 27 Jun 2019 9:44

Tgt Ion: 95 Resp: 1668479
 Ion Ratio Lower Upper
 95 100
 174 66.6 54.0 81.0
 175 4.7 3.8 5.8





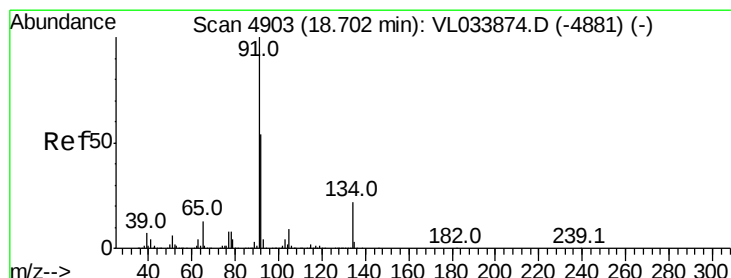
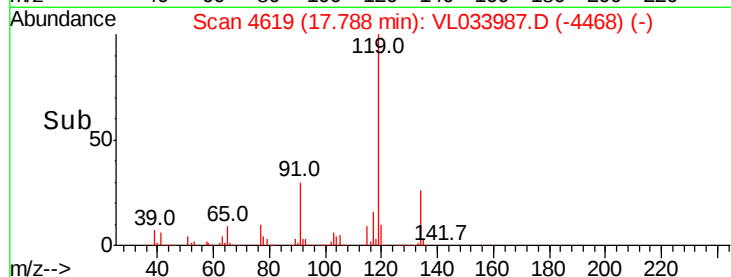
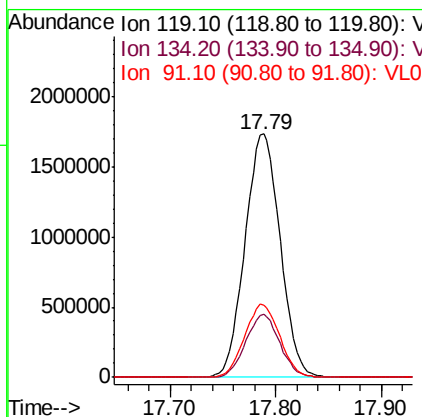
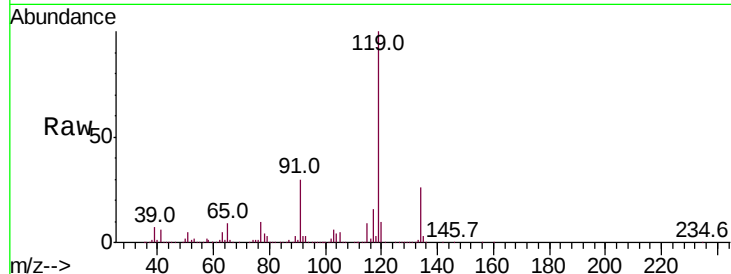
#69
 p-Isopropyltoluene
 Concen: 13.076 ppbv
 RT: 17.79 min Scan# 4619
 Delta R.T. -0.01 min
 Lab File: VL033987.D
 Acq: 27 Jun 2019 9:44

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.3	20.3	30.5
91	30.1	23.8	35.6

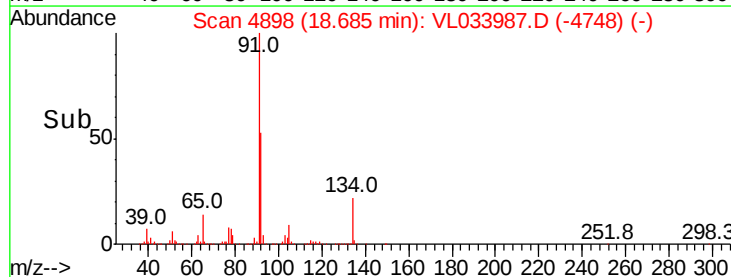
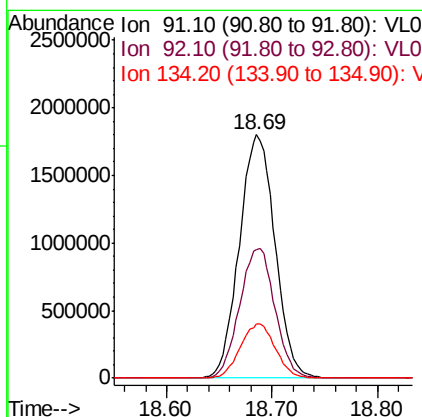
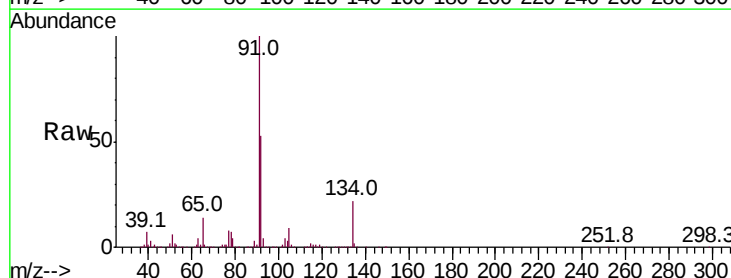
Manual Integrations
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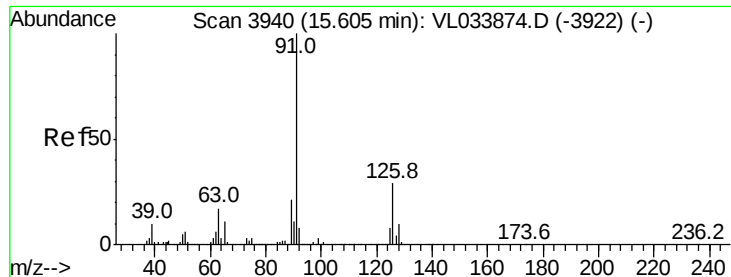
MMDadoda
 6/27/2019 3:02:44 PM



#70
 n-Butylbenzene
 Concen: 12.538 ppbv
 RT: 18.69 min Scan# 4898
 Delta R.T. -0.02 min
 Lab File: VL033987.D
 Acq: 27 Jun 2019 9:44

Tgt Ion	Ratio	Lower	Upper
91	100		
92	52.9	42.5	63.7
134	22.1	17.8	26.6





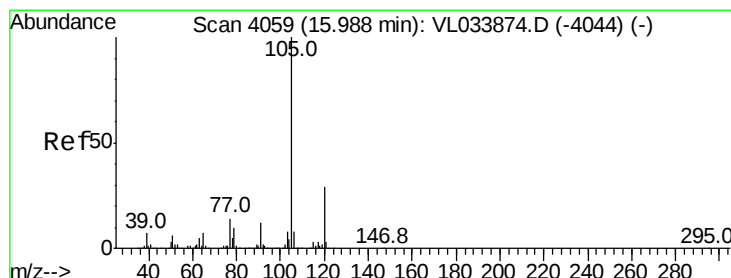
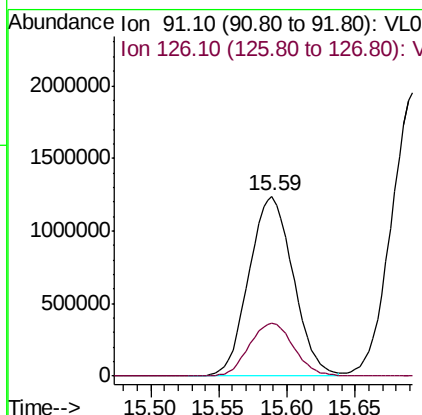
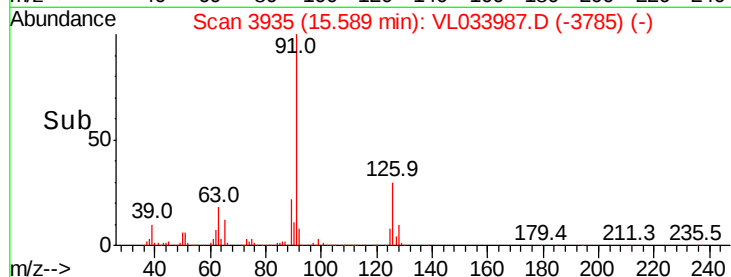
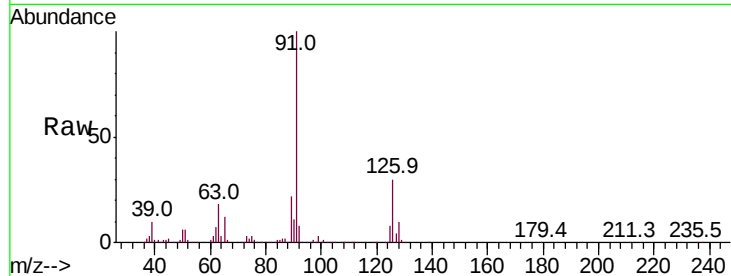
#71
2-Chlorotoluene
Concen: 13.302 ppbv
RT: 15.59 min Scan# 3935
Delta R.T. -0.02 min
Lab File: VL033987.D
Acq: 27 Jun 2019 9:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 91 Resp: 2793000
Ion Ratio Lower Upper
91 100
126 30.1 12.0 48.2

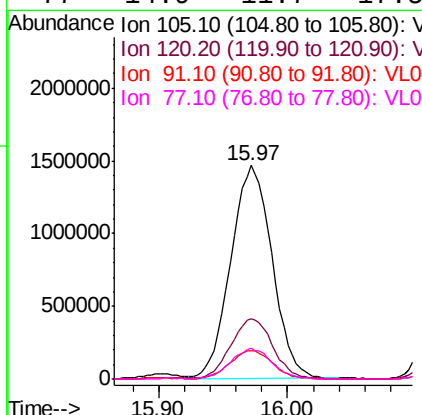
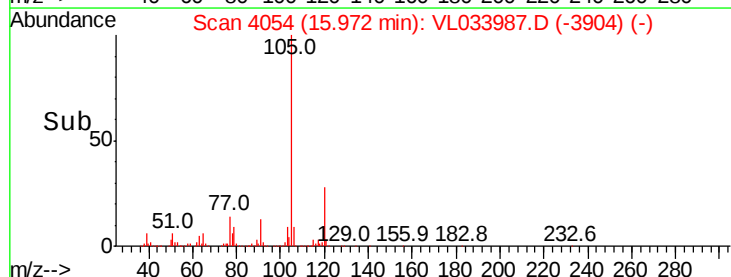
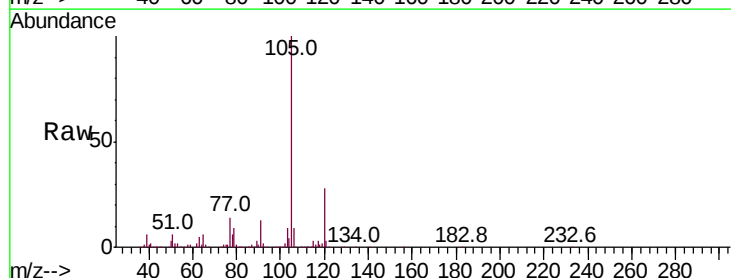
Manual Integrations
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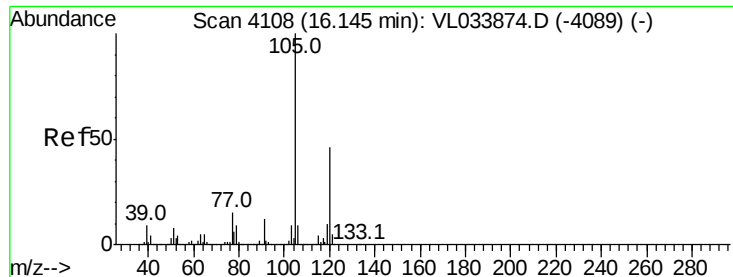
MMDadoda
6/27/2019 3:02:44 PM



#72
4-Ethyltoluene
Concen: 13.539 ppbv
RT: 15.97 min Scan# 4054
Delta R.T. -0.02 min
Lab File: VL033987.D
Acq: 27 Jun 2019 9:44

Tgt Ion:105 Resp: 3257844
Ion Ratio Lower Upper
105 100
120 28.8 23.5 35.3
91 13.9 10.4 15.6
77 14.9 11.7 17.5





#73

1,3,5-Trimethylbenzene

Concen: 13.340 ppbv

RT: 16.13 min Scan# 4104

Delta R.T. -0.01 min

Lab File: VL033987.D

Acq: 27 Jun 2019 9:44

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:105 Resp: 3161984

Ion Ratio Lower Upper

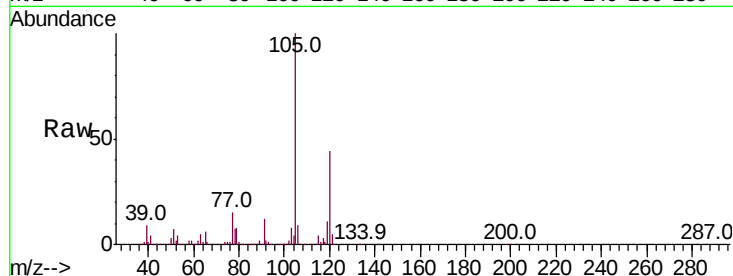
105 100

120 44.2 37.1 55.7

Manual Integrations
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MMDadoda

6/27/2019 3:02:44 PM



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

1500000

1000000

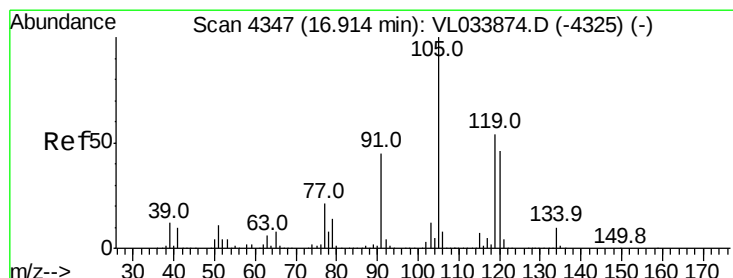
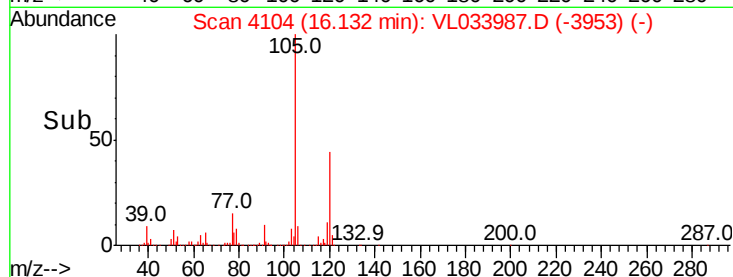
500000

0

16.13

16.10 16.12

Time-->



#74

1,2,4-Trimethylbenzene

Concen: 12.384 ppbv

RT: 16.90 min Scan# 4342

Delta R.T. -0.02 min

Lab File: VL033987.D

Acq: 27 Jun 2019 9:44

Tgt Ion:105 Resp: 3383288

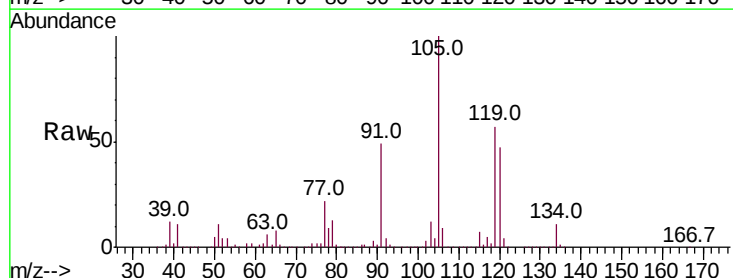
Ion Ratio Lower Upper

105 100

120 46.7 36.7 55.1

91 49.2 35.8 53.8

77 21.9 16.9 25.3



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VLO

Ion 77.10 (76.80 to 77.80): VLO

2000000

1500000

1000000

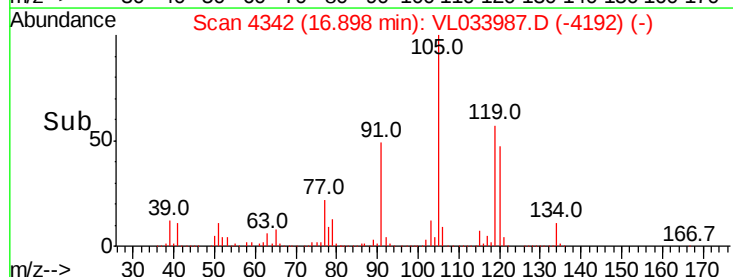
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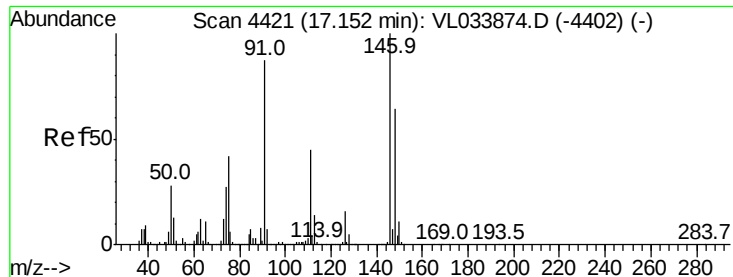
0

16.90

16.88 16.92

Time-->





#75

1,3-Dichlorobenzene

Concen: 11.361 ppbv

RT: 17.14 min Scan# 4416

Delta R.T. -0.02 min

Lab File: VL033987.D

Acq: 27 Jun 2019 9:44

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:146 Resp: 1943679

Ion Ratio Lower Upper

146 100

111 45.8 22.8 68.3

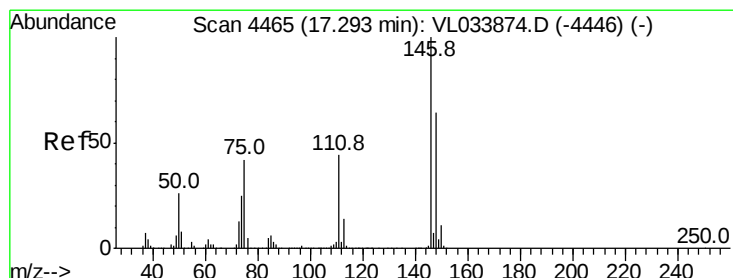
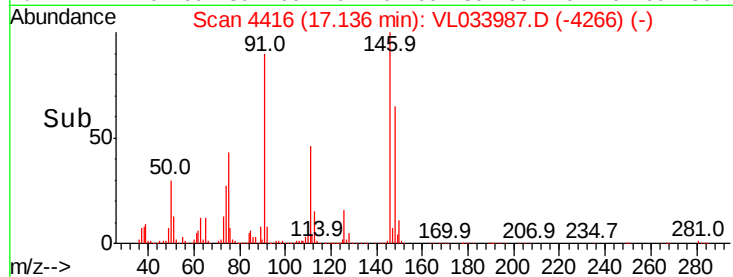
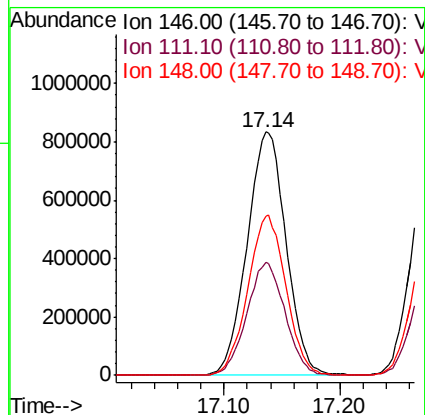
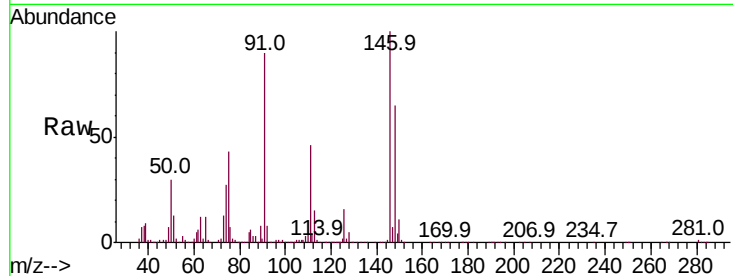
148 64.6 32.2 96.6

Manual Integrations

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MMDadoda

6/27/2019 3:02:44 PM



#76

1,4-Dichlorobenzene

Concen: 12.026 ppbv

RT: 17.28 min Scan# 4460

Delta R.T. -0.02 min

Lab File: VL033987.D

Acq: 27 Jun 2019 9:44

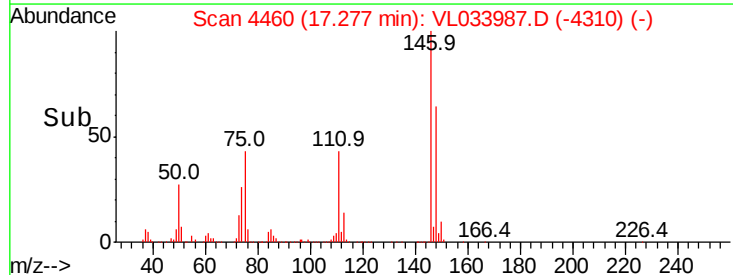
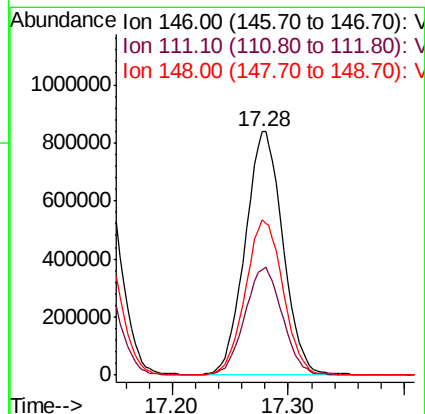
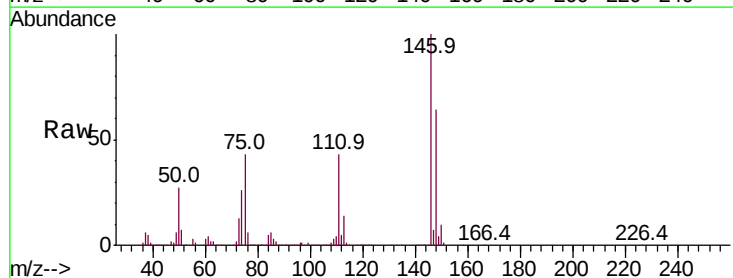
Tgt Ion:146 Resp: 1889188

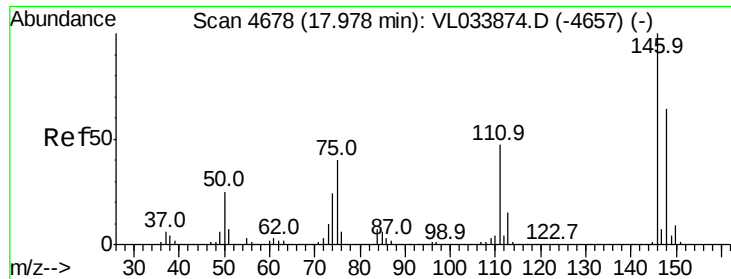
Ion Ratio Lower Upper

146 100

111 44.5 22.1 66.5

148 64.0 32.4 97.0





#77

1,2-Dichlorobenzene

Concen: 11.781 ppbv

RT: 17.96 min Scan# 4672

Delta R.T. -0.02 min

Lab File: VL033987.D

Acq: 27 Jun 2019 9:44

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:146 Resp: 1860081

Ion Ratio Lower Upper

146 100

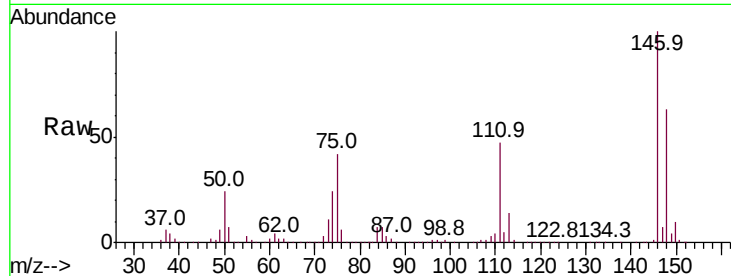
111 47.5 23.4 70.0

148 63.5 31.8 95.4

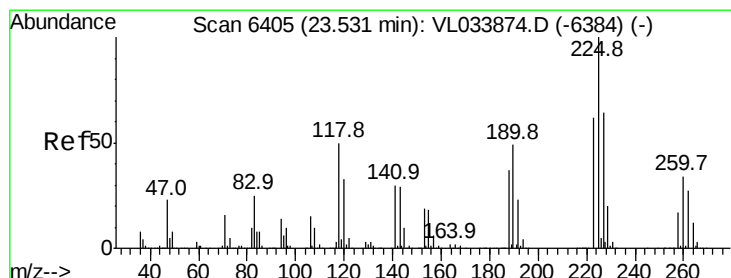
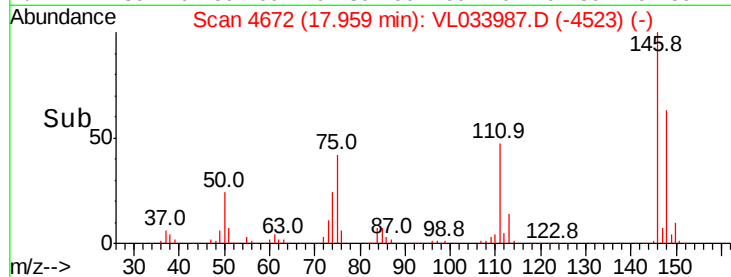
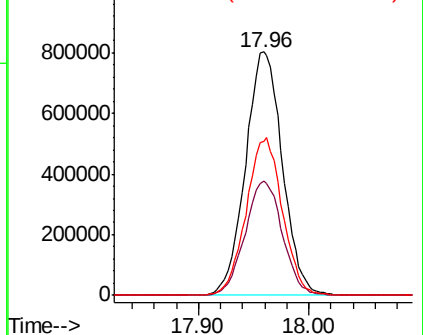
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Abundance Ion 146.00 (145.70 to 146.70): V
Ion 111.10 (110.80 to 111.80): V
Ion 148.00 (147.70 to 148.70): V



#78

Hexachloro-1,3-Butadiene

Concen: 10.650 ppbv

RT: 23.51 min Scan# 6400

Delta R.T. -0.02 min

Lab File: VL033987.D

Acq: 27 Jun 2019 9:44

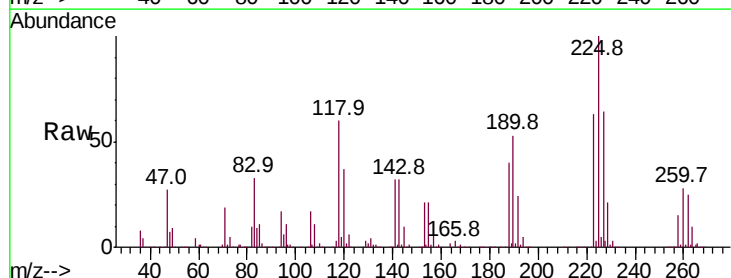
Tgt Ion:225 Resp: 1313346

Ion Ratio Lower Upper

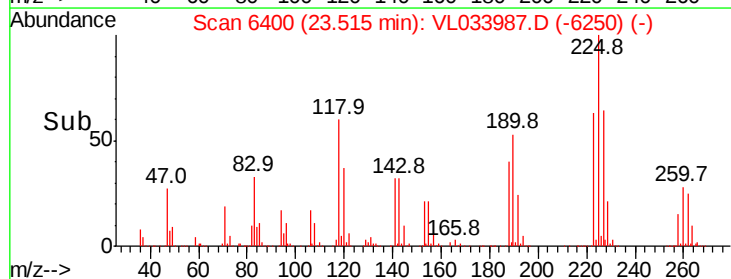
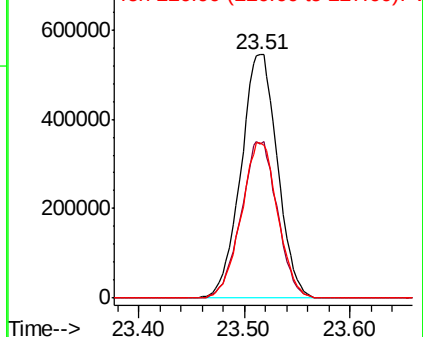
225 100

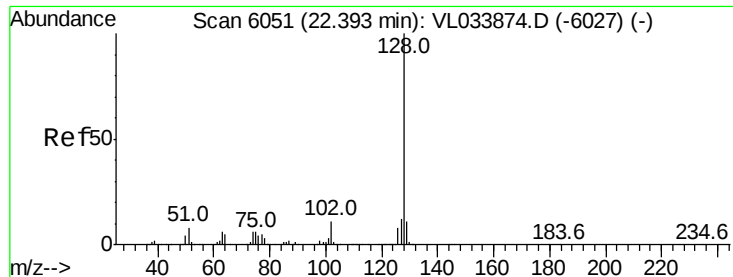
223 63.7 50.8 76.2

227 63.7 51.8 77.6



Abundance Ion 224.90 (224.60 to 225.60): V
Ion 222.90 (222.60 to 223.60): V
Ion 226.90 (226.60 to 227.60): V





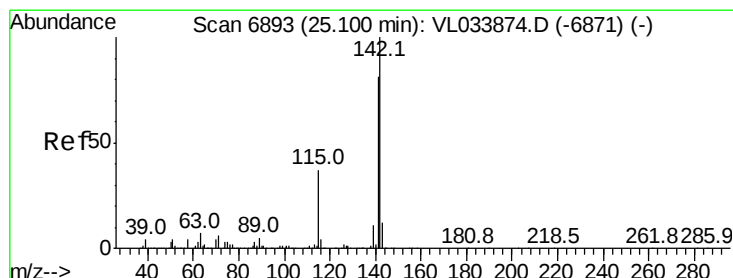
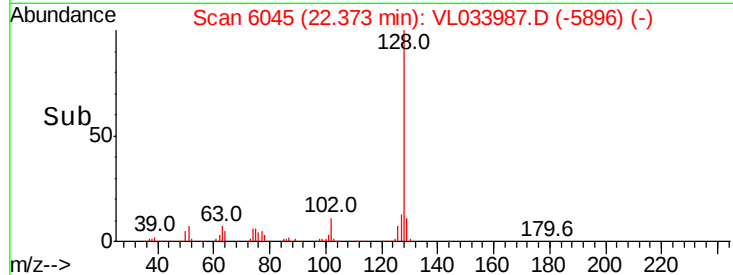
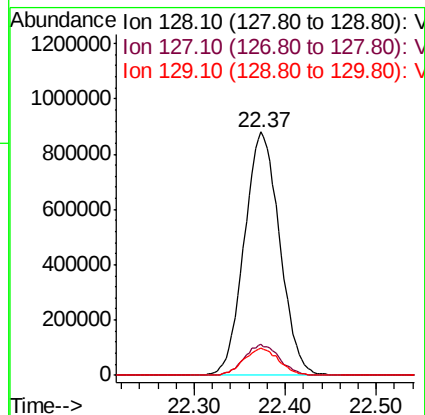
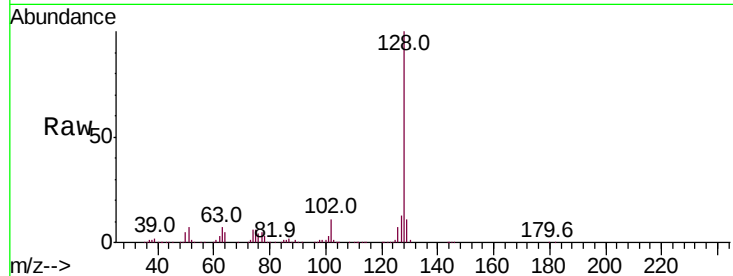
#79
Naphthalene
Concen: 10.871 ppbv
RT: 22.37 min Scan# 6045
Delta R.T. -0.02 min
Lab File: VL033987.D
Acq: 27 Jun 2019 9:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.6	9.7	14.5
129	11.1	8.6	12.8

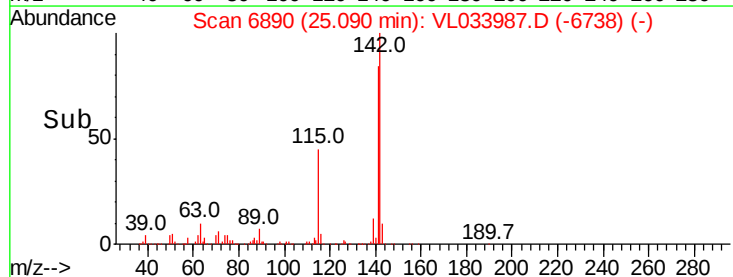
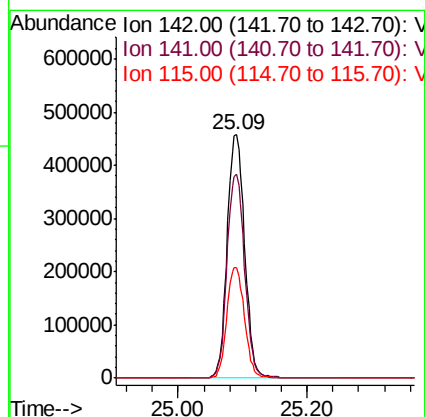
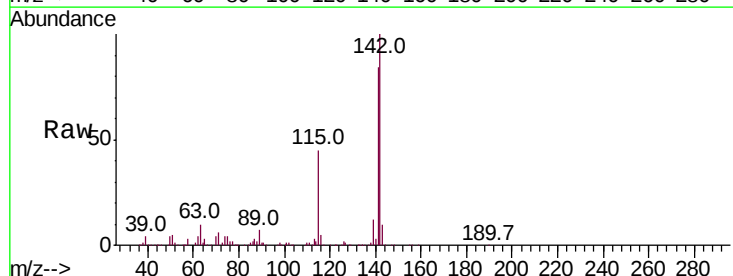
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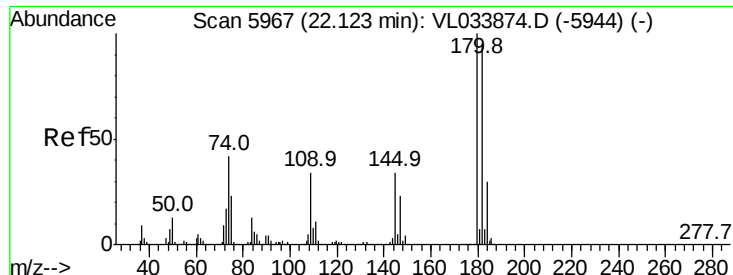
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#80
Naphthalene, 2-methyl-
Concen: 9.910 ppbv
RT: 25.09 min Scan# 6890
Delta R.T. -0.01 min
Lab File: VL033987.D
Acq: 27 Jun 2019 9:44

Tgt Ion	Ratio	Lower	Upper
142	100		
141	84.4	65.7	98.5
115	45.8	28.9	43.3





#81
 1,2,4-Trichlorobenzene
 Concen: 10.370 ppbv
 RT: 22.10 min Scan# 5960
 Delta R.T. -0.02 min
 Lab File: VL033987.D
 Acq: 27 Jun 2019 9:44

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.9	76.9	115.3
184	30.2	24.5	36.7

Manual Integrations
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