

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL061319\
 Data File : VL033902.D
 Acq On : 13 Jun 2019 18:02
 Operator : SY/AP
 Sample : VL0613ABS01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0613ABS01

Manual Integrations
 APPROVED

MMDadoda
 6/17/2019 12:37:05 AM

Quant Time: Jun 14 06:56:35 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	5.75	49	934545	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.28	114	2335102	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.23	117	2325492m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.56	95	1769380	9.26	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	92.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.07	85	1191132	7.855	ppbv	98
3) Chlorodifluoromethane	3.00	51	1108049	10.072	ppbv	98
4) Chloromethane	3.16	50	648810	10.339	ppbv	98
5) Vinyl Chloride	3.28	62	649638	11.157	ppbv	99
6) Bromomethane	3.50	94	413442	10.688	ppbv	92
7) Chloroethane	3.59	64	242977	10.551	ppbv	99
8) Dichlorotetrafluoroethane	3.21	85	1651142	10.188	ppbv	98
9) Propene	3.03	41	478336	11.620	ppbv	99
10) Heptane	8.23	43	1250213	12.015	ppbv	99
11) Trichlorofluoromethane	3.99	101	1974985	10.093	ppbv	96
12) 1,1,2-Trichlorotrifluoroet	4.54	101	1341473	10.144	ppbv	100
13) Ethanol	3.64	45	118867	8.875	ppbv	95
14) Bromoethene	3.78	108	555883	11.281	ppbv	100
15) Acetone	3.89	43	1228970	9.017	ppbv	99
16) 1,3-Butadiene	3.35	39	568705	10.962	ppbv	98
17) tert-Butyl alcohol	4.35	59	1296040	12.164	ppbv	99
18) 1,1-Dichloroethene	4.34	96	593209	10.620	ppbv	97
19) Isopropyl Alcohol	4.01	45	983023	12.625	ppbv	99
20) Methylene Chloride	4.40	84	503214	9.467	ppbv	98
21) Allyl Chloride	4.46	41	887598	11.464	ppbv	99
22) trans-1,2-Dichloroethene	4.95	96	613775	10.425	ppbv	98
23) Vinyl Acetate	5.14	43	1889856	11.929	ppbv	100
24) 1,1-Dichloroethane	5.08	63	1320714	10.718	ppbv	99
25) Ethyl Acetate	5.75	43	2249740	10.838	ppbv	99
26) Hexane	5.77	57	983701	10.409	ppbv	99
27) Carbon Disulfide	4.61	76	1522965	11.599	ppbv	99
28) Methyl tert-Butyl Ether	5.10	73	1741135	12.183	ppbv	99
29) Chloroform	5.84	83	1699907	10.502	ppbv	100
30) Cyclohexane	7.24	84	873772	13.085	ppbv	99
31) cis-1,2-Dichloroethene	5.63	61	1030260	12.431	ppbv	97
32) 1,1,1-Trichloroethane	6.61	97	1944489	12.453	ppbv	100
34) 2-Butanone	5.32	43	1444292	10.964	ppbv	99
35) Carbon Tetrachloride	7.12	117	1971148	10.926	ppbv	97
36) Benzene	6.99	78	2120088	11.886	ppbv	99
37) 1,2-Dichloroethane	6.40	62	1458230	11.054	ppbv	99
38) Trichloroethene	7.95	130	925239	13.322	ppbv	99
39) 1,2-Dichloropropane	7.72	63	809122	11.753	ppbv	97
40) 1,4-Dioxane	7.94	88	375333	13.367	ppbv	89
41) Tetrahydrofuran	6.13	42	884959	13.235	ppbv	100
42) Bromodichloromethane	7.90	83	2028885	11.509	ppbv	99
43) Methyl Methacrylate	8.13	69	832644	12.481	ppbv	100

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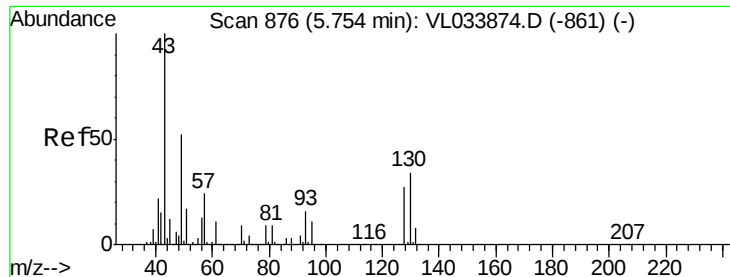
Manual Integrations
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 6/17/2019 12:37:05 AM

Quant Time: Jun 14 06:56:35 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)
44) 2,2,4-Trimethylpentane	7.98	57	3667677	11.562	ppbv	100
45) t-1,3-Dichloropropene	9.40	75	1138852	13.010	ppbv	100
46) cis-1,3-Dichloropropene	8.82	75	1290945	12.872	ppbv	100
47) 1,1,2-Trichloroethane	9.60	97	865194	10.542	ppbv	97
48) Dibromochloromethane	10.44	129	1649959	11.187	ppbv	99
49) Bromoform	13.19	173	1480111	11.368	ppbv	99
50) 4-Methyl-2-Pentanone	8.85	43	2220034	11.302	ppbv	99
51) 2-Hexanone	10.26	43	1796517	11.711	ppbv	100
52) Tetrachloroethene	11.36	164	789209	12.574	ppbv	98
53) Toluene	9.93	91	2393141	12.124	ppbv	99
54) 1,2-Dibromoethane	10.75	107	1406317	11.367	ppbv	96
56) 1,1,1,2-Tetrachloroethane	12.27	131	1162509	11.443	ppbv #	94
57) Chlorobenzene	12.29	112	1983783	11.390	ppbv	97
58) Ethyl Benzene	12.85	91	3451617	13.165	ppbv	96
59) m/p-Xylene	13.14	91	5525762m	23.176	ppbv	
60) o-Xylene	13.83	91	2795381	11.356	ppbv	99
61) Styrene	13.67	104	2055493	12.903	ppbv	99
62) Isopropylbenzene	14.81	105	3731605	11.247	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.82	83	1980490	10.688	ppbv	99
64) n-propylbenzene	15.71	120	971717	11.437	ppbv	100
65) tert-Butylbenzene	16.89	119	3520004	11.466	ppbv	100
66) Benzyl Chloride	17.14	91	2059399	13.237	ppbv	100
67) sec-Butylbenzene	17.44	105	4944175	11.480	ppbv	100
69) p-Isopropyltoluene	17.80	119	4233506	11.814	ppbv	100
70) n-Butylbenzene	18.70	91	4459701	11.363	ppbv	100
71) 2-Chlorotoluene	15.61	91	2832001	11.586	ppbv	99
72) 4-Ethyltoluene	15.99	105	3292631	11.754	ppbv	100
73) 1,3,5-Trimethylbenzene	16.15	105	3203259	11.609	ppbv	99
74) 1,2,4-Trimethylbenzene	16.91	105	3471569	10.916	ppbv	99
75) 1,3-Dichlorobenzene	17.15	146	2071717	10.402	ppbv	100
76) 1,4-Dichlorobenzene	17.30	146	2025153	11.074	ppbv	99
77) 1,2-Dichlorobenzene	17.97	146	2001688	10.891	ppbv	100
78) Hexachloro-1,3-Butadiene	23.53	225	1422784	9.911	ppbv	100
79) Naphthalene	22.39	128	3234370	12.723	ppbv	99
80) Naphthalene, 2-methyl-	25.10	142	1256967	12.393	ppbv	100
81) 1,2,4-Trichlorobenzene	22.12	180	1933634	12.048	ppbv	99

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.75 min Scan# 875

Delta R.T. -0.00 min

Lab File: VL033902.D

Acq: 13 Jun 2019 18:02

Instrument :

MSVOA_L

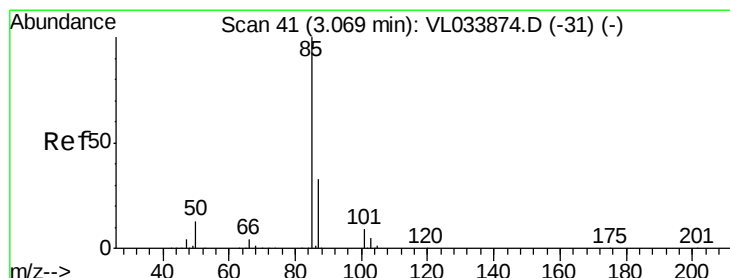
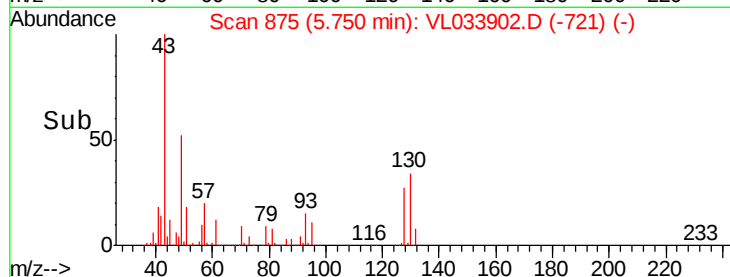
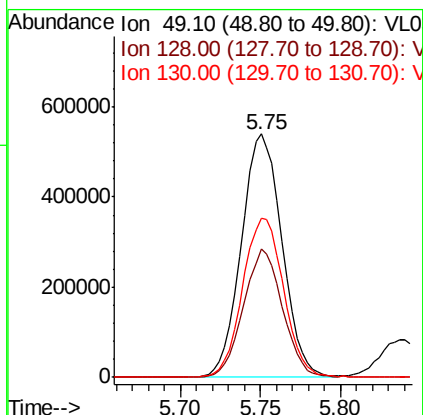
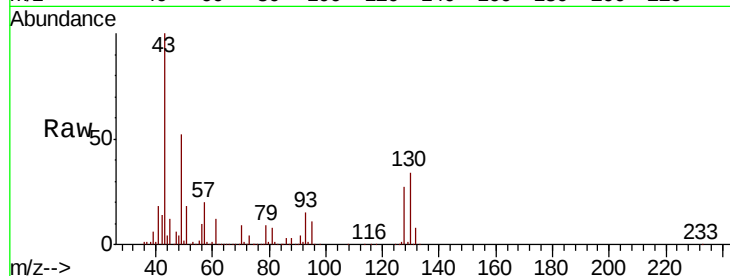
ClientSampleId :

VL0613ABS01

Tot Ion:	49	Resp:	934545
Ion	Ratio	Lower	Upper
49	100		
128	51.1	25.5	76.5
130	66.1	32.5	97.4

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#2

Dichlorodifluoromethane

Concen: 7.855 ppbv

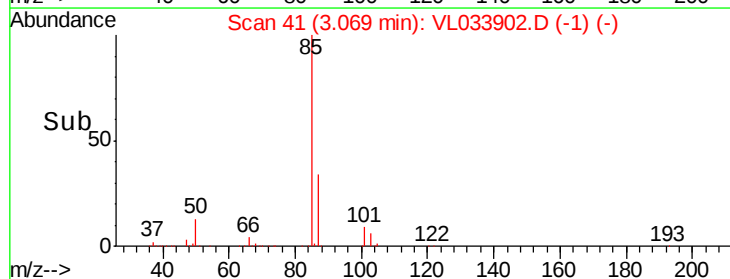
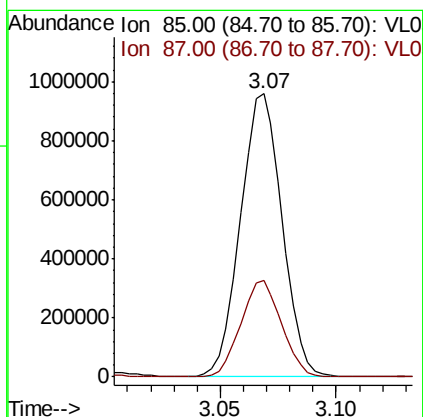
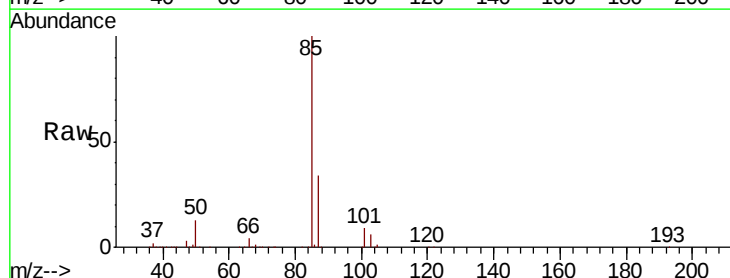
RT: 3.07 min Scan# 41

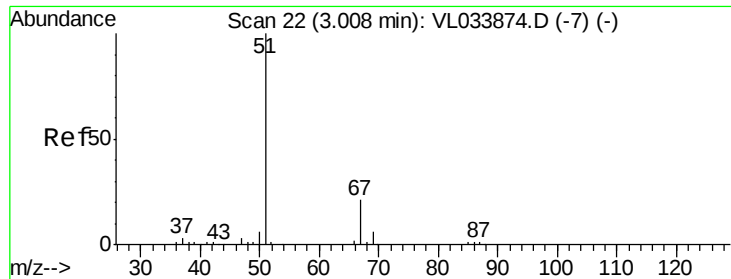
Delta R.T. -0.00 min

Lab File: VL033902.D

Acq: 13 Jun 2019 18:02

Tgt Ion:	85	Resp:	1191132
Ion	Ratio	Lower	Upper
85	100		
87	34.2	26.6	40.0





#3

Chlorodifluoromethane

Concen: 10.072 ppbv

RT: 3.00 min Scan# 21

Delta R.T. -0.00 min

Lab File: VL033902.D

Acq: 13 Jun 2019 18:02

Instrument :

MSVOA_L

ClientSampleId :

VL0613ABS01

Tot Ion: 51 Resp: 1108049

Ion Ratio Lower Upper

51 100

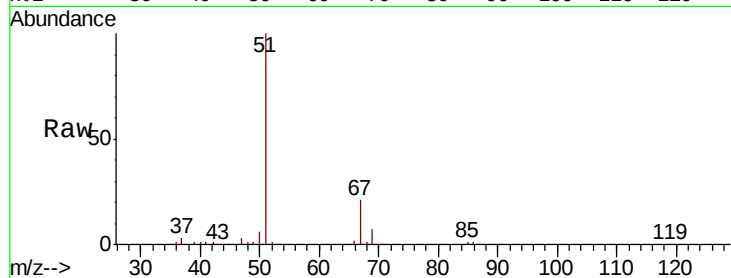
67 19.6 16.4 24.6

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

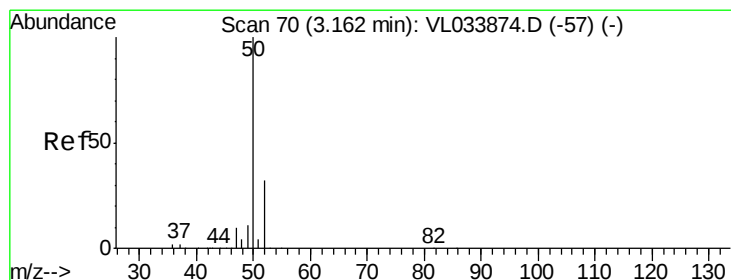
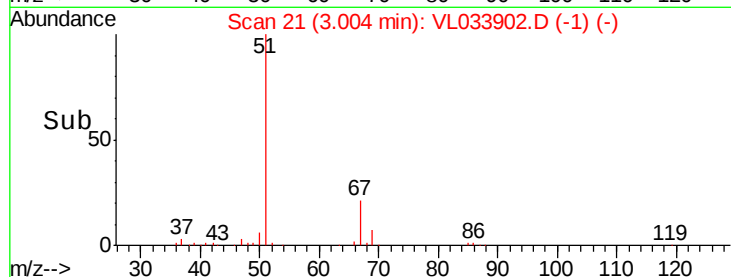
600000

400000

200000

0

Time-->



#4

Chloromethane

Concen: 10.339 ppbv

RT: 3.16 min Scan# 70

Delta R.T. -0.00 min

Lab File: VL033902.D

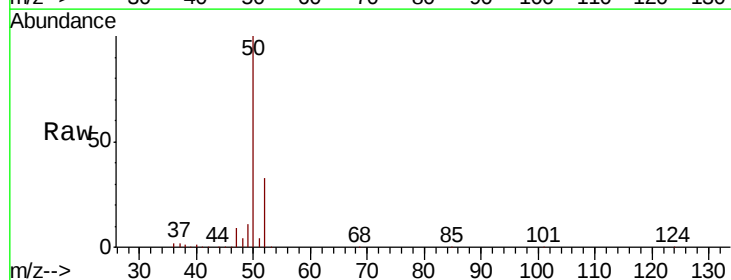
Acq: 13 Jun 2019 18:02

Tgt Ion: 50 Resp: 648810

Ion Ratio Lower Upper

50 100

52 32.8 25.4 38.0



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0

3.16

500000

400000

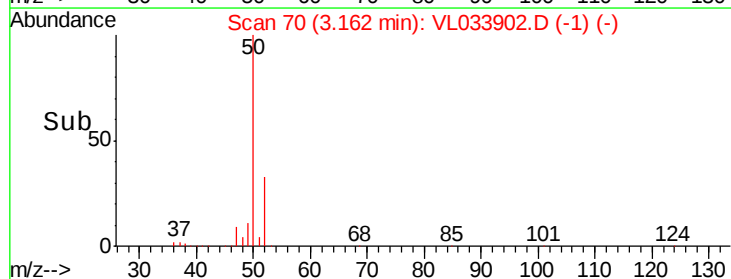
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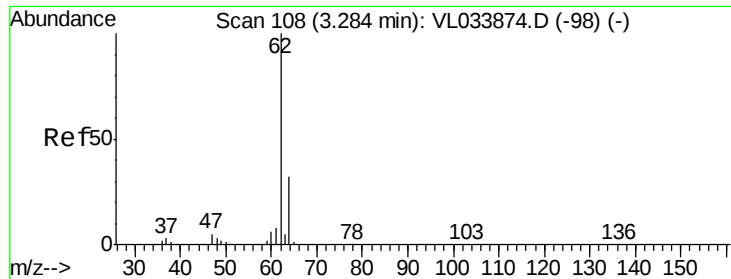
200000

100000

0

Time-->





#5

Vinyl Chloride

Concen: 11.157 ppbv

RT: 3.28 min Scan# 107

Delta R.T. -0.00 min

Lab File: VL033902.D

Acq: 13 Jun 2019 18:02

Instrument :

MSVOA_L

ClientSampled :

VL0613ABS01

Tot Ion: 62 Resp: 649638

Ion Ratio Lower Upper

62 100

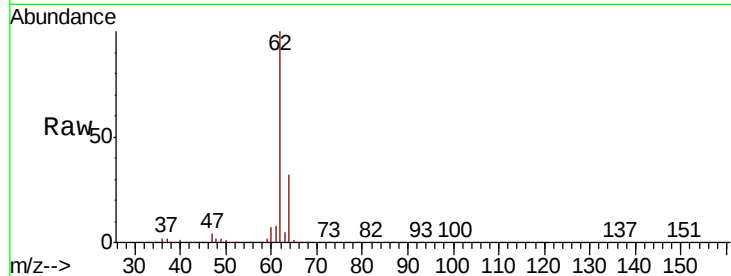
64 32.3 25.2 37.8

Manual Integrations

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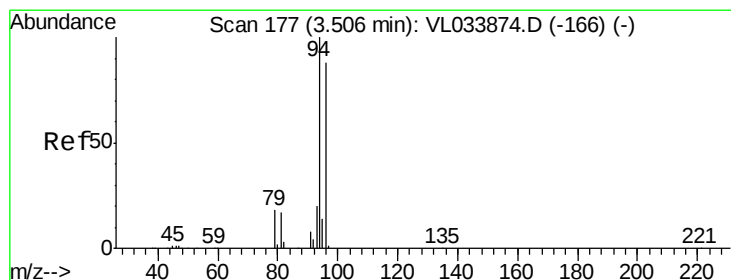
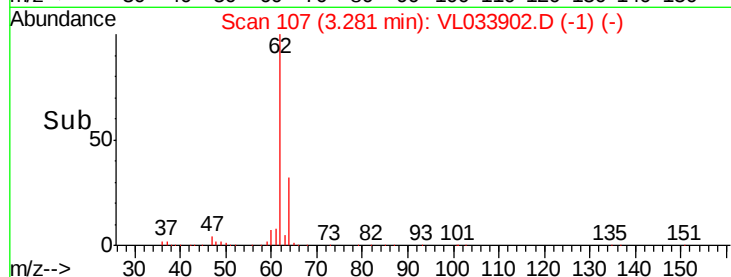
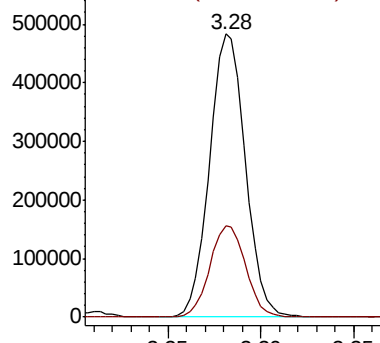
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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 10.688 ppbv

RT: 3.50 min Scan# 176

Delta R.T. -0.00 min

Lab File: VL033902.D

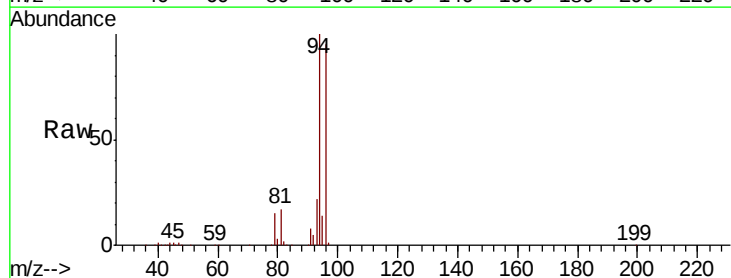
Acq: 13 Jun 2019 18:02

Tgt Ion: 94 Resp: 413442

Ion Ratio Lower Upper

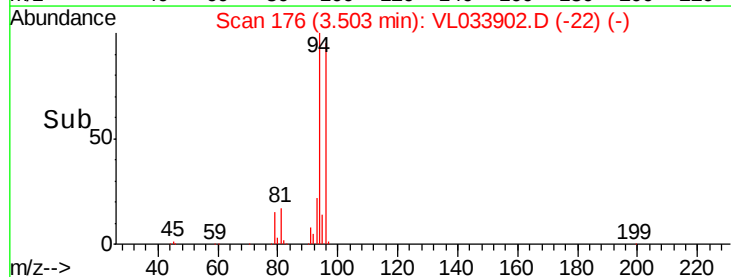
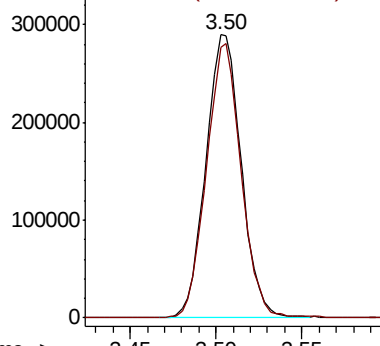
94 100

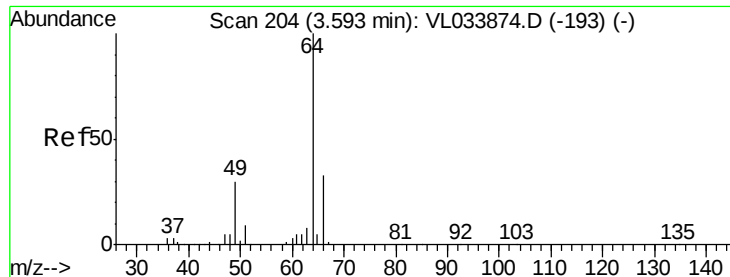
96 95.4 70.2 105.2



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 10.551 ppbv

RT: 3.59 min Scan# 203

Delta R.T. -0.00 min

Lab File: VL033902.D

Acq: 13 Jun 2019 18:02

Instrument :

MSVOA_L

ClientSampleId :

VL0613ABS01

Tot Ion: 64 Resp: 242977

Ion Ratio Lower Upper

64 100

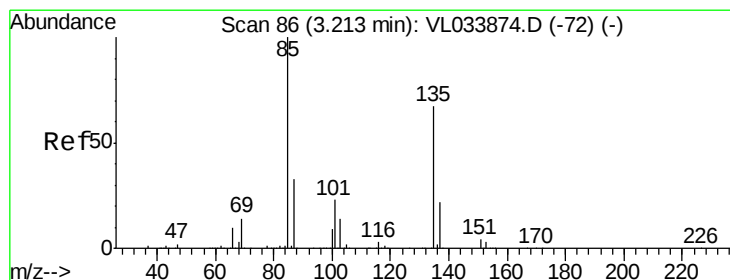
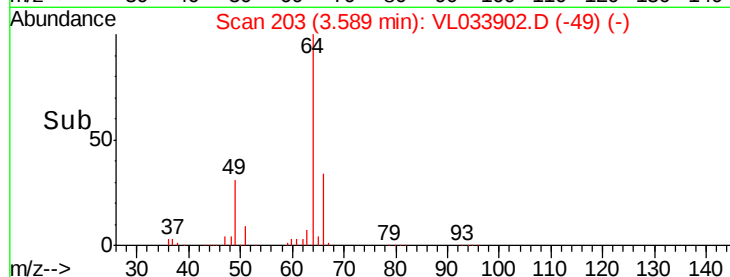
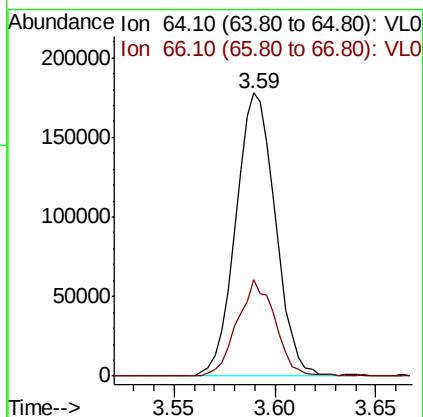
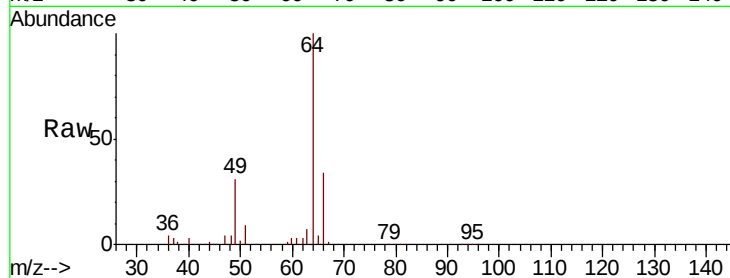
66 34.0 26.7 40.1

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#8

Dichlorotetrafluoroethane

Concen: 10.188 ppbv

RT: 3.21 min Scan# 85

Delta R.T. -0.00 min

Lab File: VL033902.D

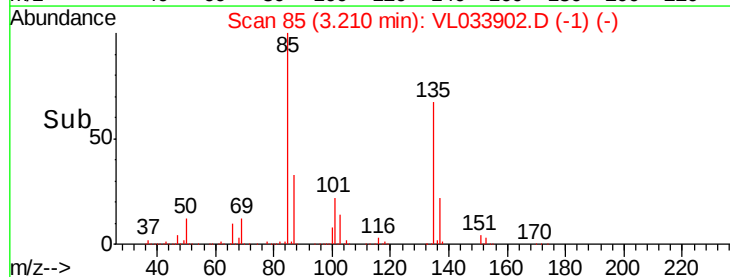
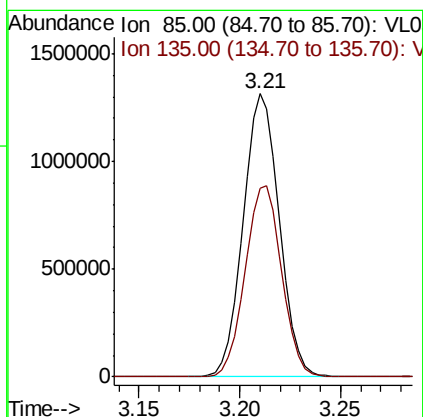
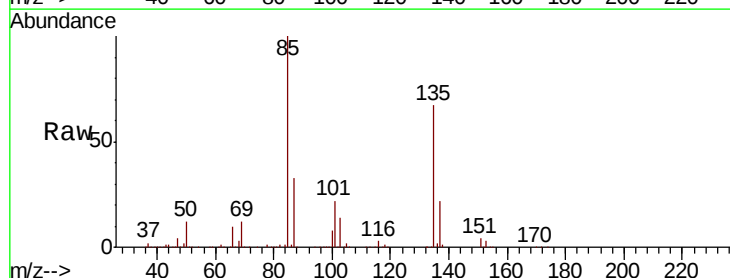
Acq: 13 Jun 2019 18:02

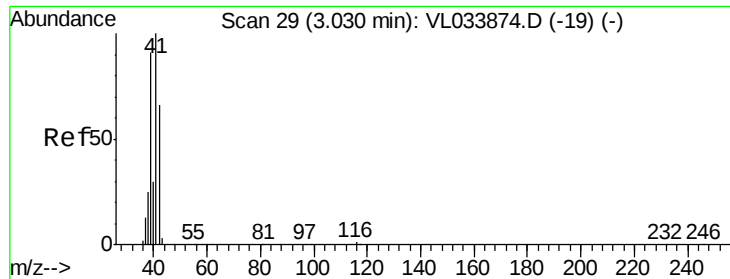
Tgt Ion: 85 Resp: 1651142

Ion Ratio Lower Upper

85 100

135 68.7 53.7 80.5





#9

Propene

Concen: 11.620 ppbv

RT: 3.03 min Scan# 28

Delta R.T. -0.00 min

Lab File: VL033902.D

Acq: 13 Jun 2019 18:02

Instrument :

MSVOA_L

ClientSampleId :

VL0613ABS01

Tot Ion: 41 Resp: 478336

Ion Ratio Lower Upper

41 100

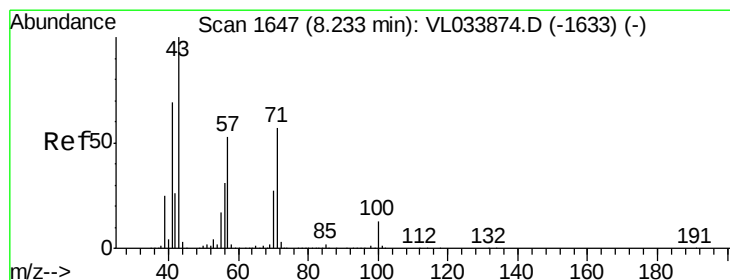
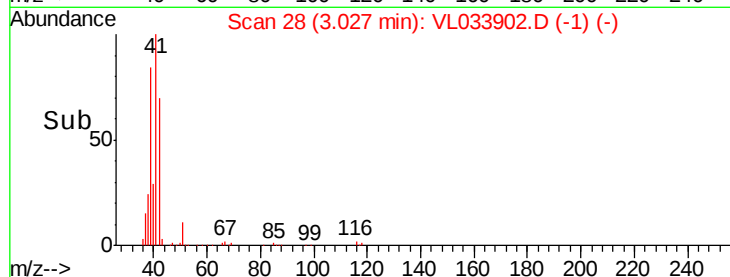
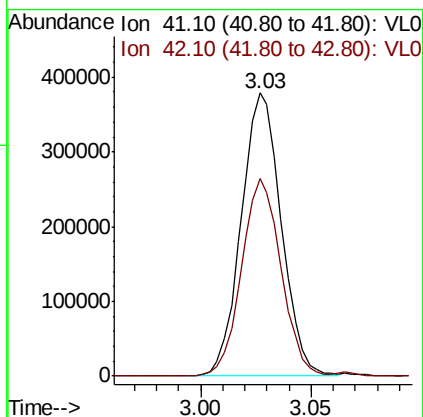
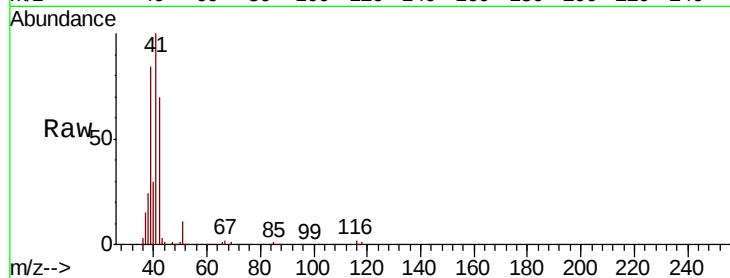
42 69.6 56.3 84.5

Manual Integrations

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#10

Heptane

Concen: 12.015 ppbv

RT: 8.23 min Scan# 1647

Delta R.T. -0.00 min

Lab File: VL033902.D

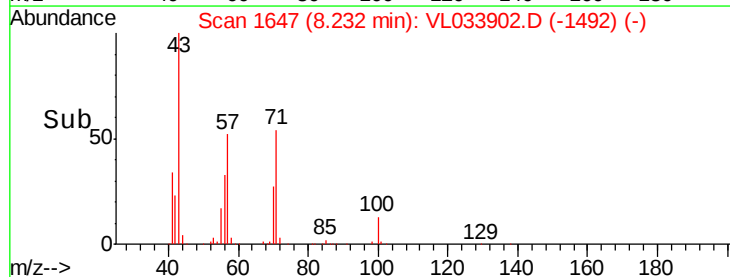
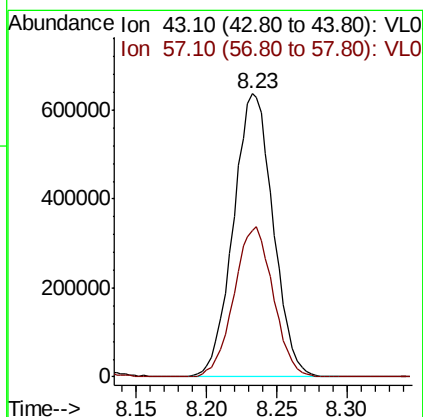
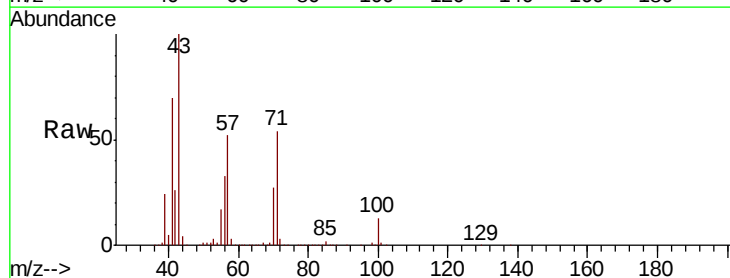
Acq: 13 Jun 2019 18:02

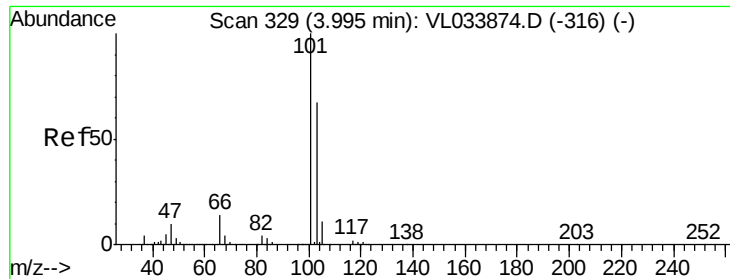
Tgt Ion: 43 Resp: 1250213

Ion Ratio Lower Upper

43 100

57 52.5 41.7 62.5





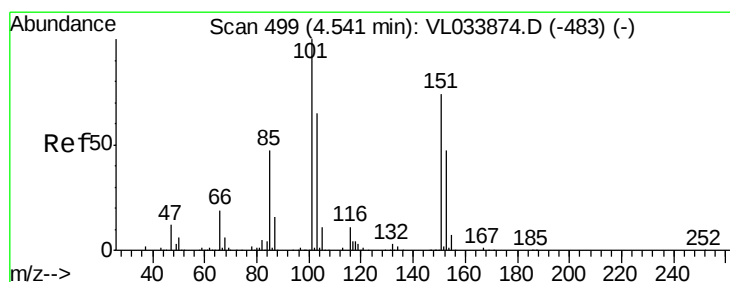
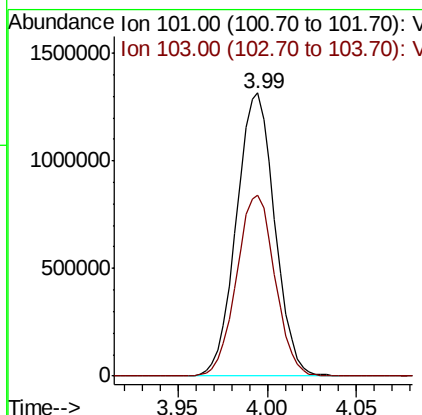
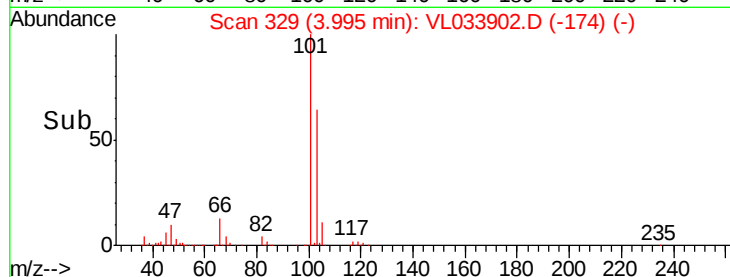
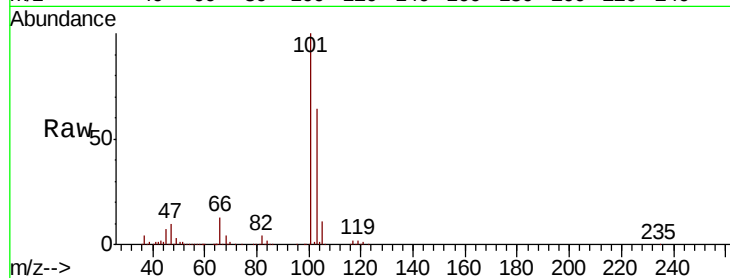
#11
 Trichlorofluoromethane
 Concen: 10.093 ppbv
 RT: 3.99 min Scan# 329
 Delta R.T. -0.00 min
 Lab File: VL033902.D
 Acq: 13 Jun 2019 18:02

Instrument :
 MSVOA_L
 ClientSampled :
 VL0613ABS01

Tot Ion:101 Resp: 1974985
 Ion Ratio Lower Upper
 101 100
 103 64.1 53.6 80.4

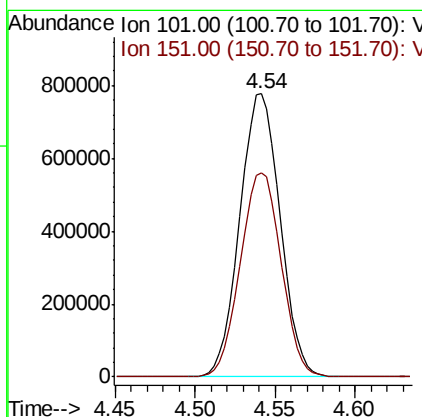
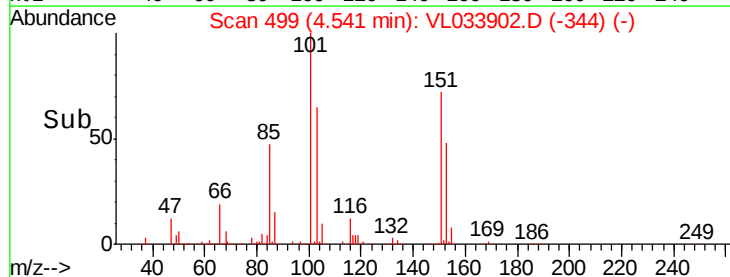
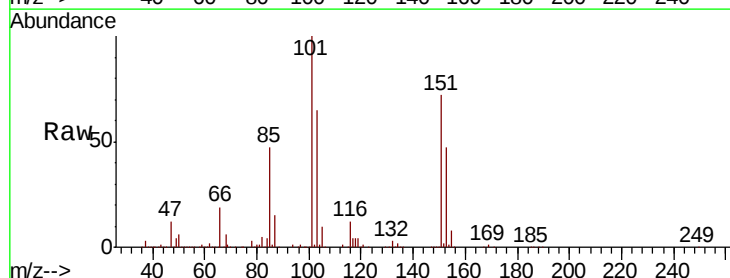
Manual Integrations
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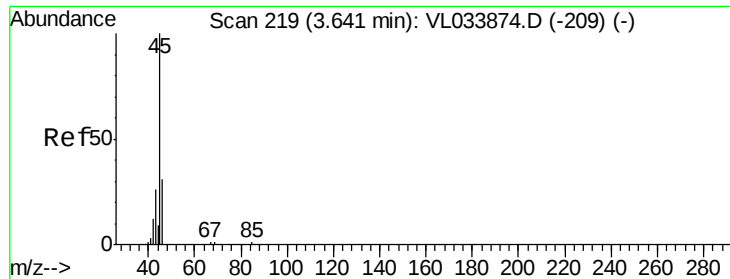
MMDadoda
 6/17/2019 12:37:05 AM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 10.144 ppbv
 RT: 4.54 min Scan# 499
 Delta R.T. -0.00 min
 Lab File: VL033902.D
 Acq: 13 Jun 2019 18:02

Tgt Ion:101 Resp: 1341473
 Ion Ratio Lower Upper
 101 100
 151 73.2 58.6 87.8





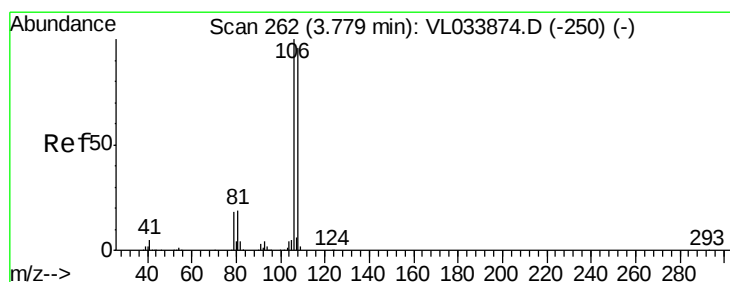
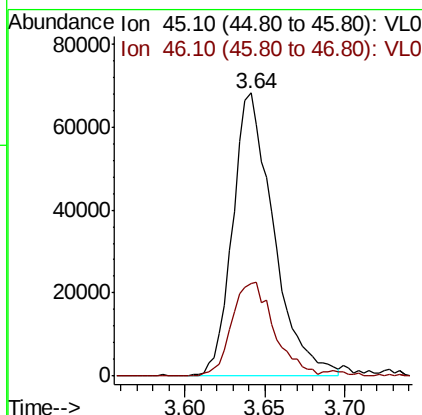
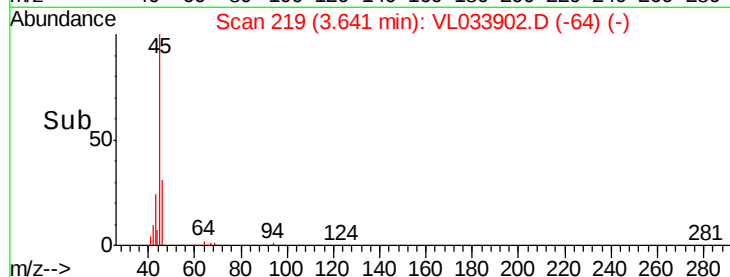
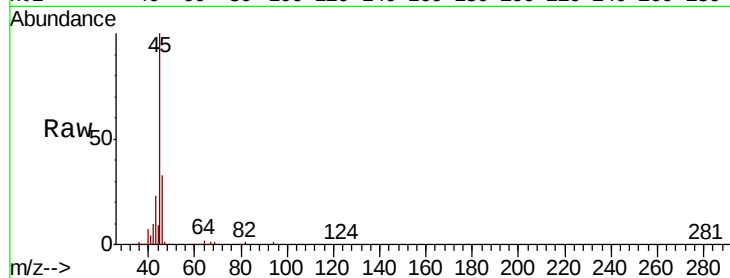
#13
Ethanol
Concen: 8.875 ppbv
RT: 3.64 min Scan# 219
Delta R.T. -0.00 min
Lab File: VL033902.D
Acq: 13 Jun 2019 18:02

Instrument :
MSVOA_L
ClientSampleId :
VL0613ABS01

Tot Ion: 45 Resp: 118867
Ion Ratio Lower Upper
45 100
46 35.4 15.3 61.1

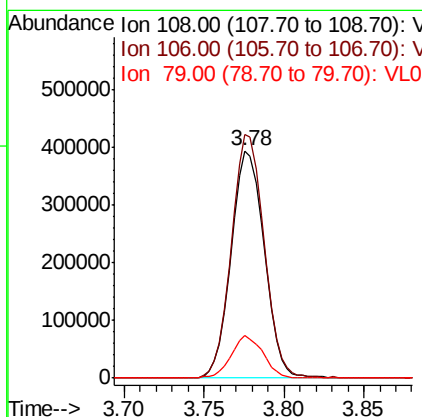
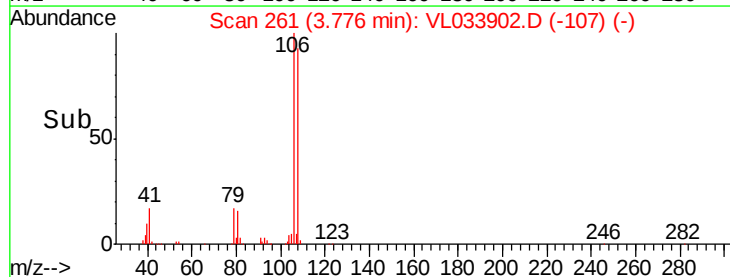
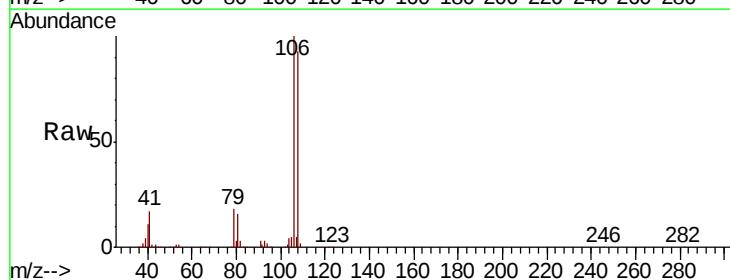
Manual Integrations
APPROVED

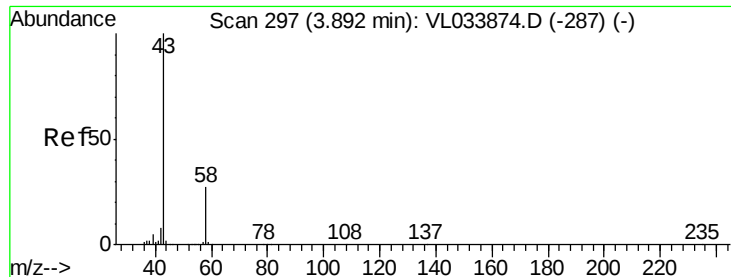
MMDadoda
6/17/2019 12:37:05 AM



#14
Bromoethene
Concen: 11.281 ppbv
RT: 3.78 min Scan# 261
Delta R.T. -0.00 min
Lab File: VL033902.D
Acq: 13 Jun 2019 18:02

Tgt Ion: 108 Resp: 555883
Ion Ratio Lower Upper
108 100
106 106.1 84.9 127.3
79 18.5 15.4 23.0





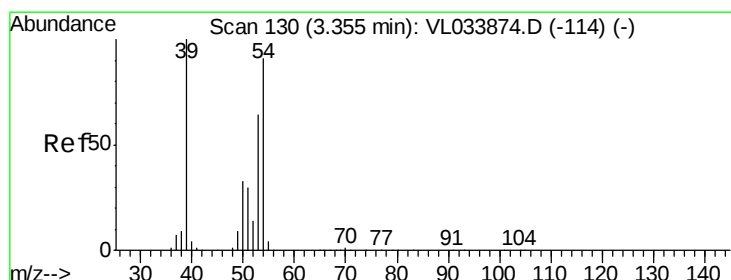
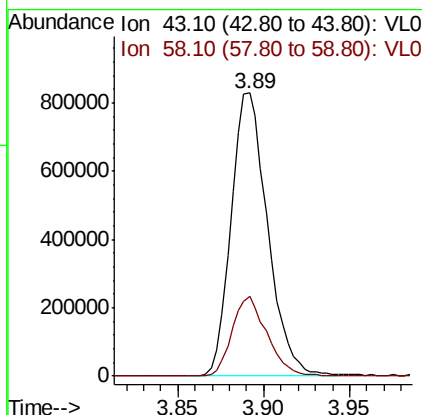
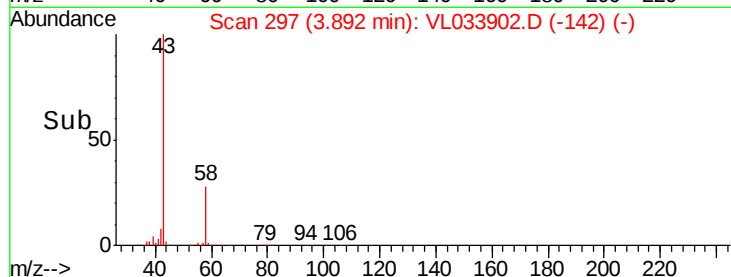
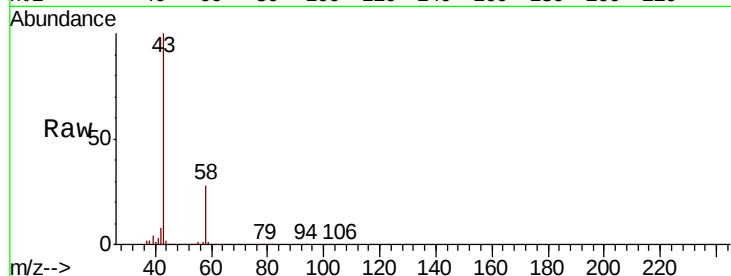
#15
Acetone
Concen: 9.017 ppbv
RT: 3.89 min Scan# 297
Delta R.T. -0.00 min
Lab File: VL033902.D
Acq: 13 Jun 2019 18:02

Instrument :
MSVOA_L
ClientSampleId :
VL0613ABS01

Tot Ion: 43 Resp: 1228970
Ion Ratio Lower Upper
43 100
58 27.0 21.3 31.9

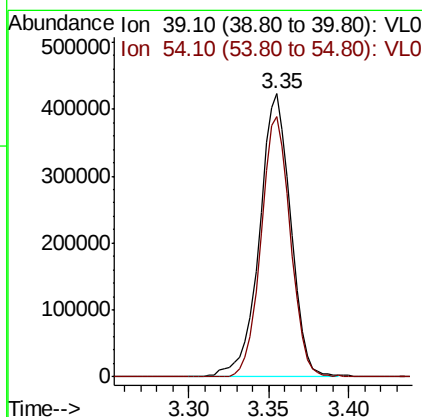
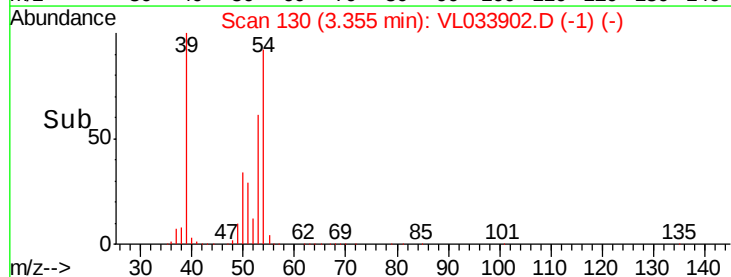
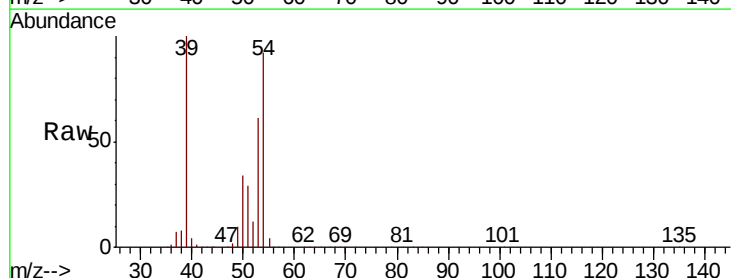
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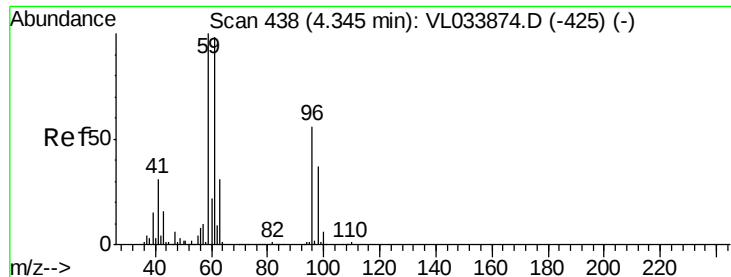
MMDadoda
6/17/2019 12:37:05 AM



#16
1,3-Butadiene
Concen: 10.962 ppbv
RT: 3.35 min Scan# 130
Delta R.T. -0.00 min
Lab File: VL033902.D
Acq: 13 Jun 2019 18:02

Tgt Ion: 39 Resp: 568705
Ion Ratio Lower Upper
39 100
54 87.2 68.6 103.0





#17

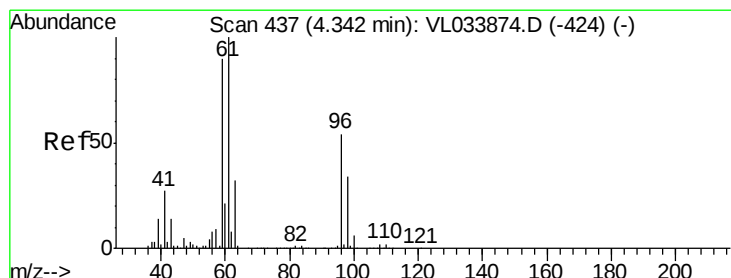
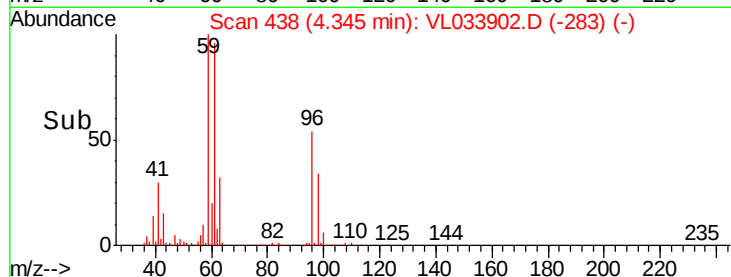
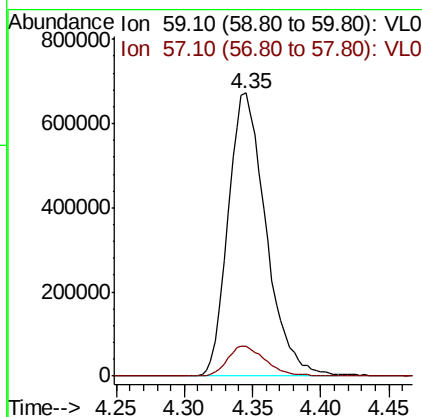
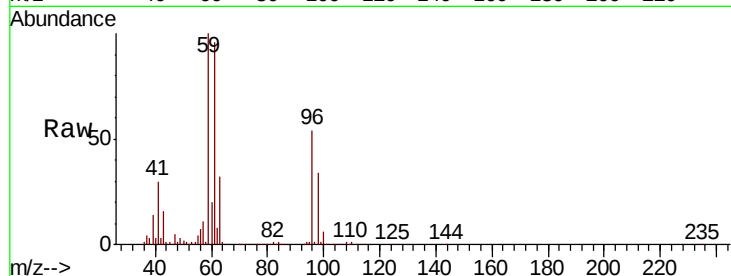
tert-Butyl alcohol
Concen: 12.164 ppbv
RT: 4.35 min Scan# 438
Delta R.T. -0.00 min
Lab File: VL033902.D
Acq: 13 Jun 2019 18:02

Instrument :
MSVOA_L
ClientSampleId :
VL0613ABS01

Tot Ion: 59 Resp: 1296040
Ion Ratio Lower Upper
59 100
57 10.7 8.4 12.6

Manual Integrations
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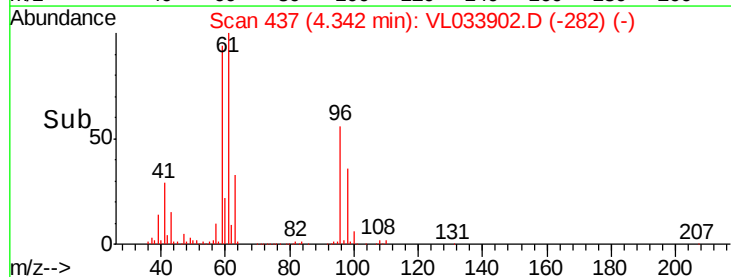
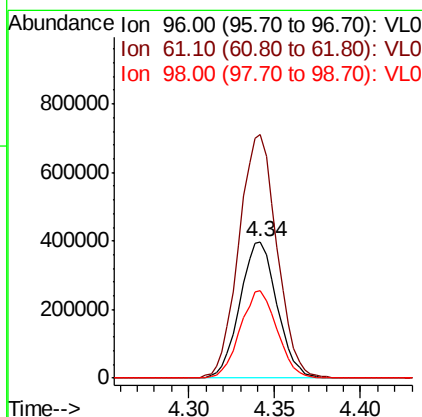
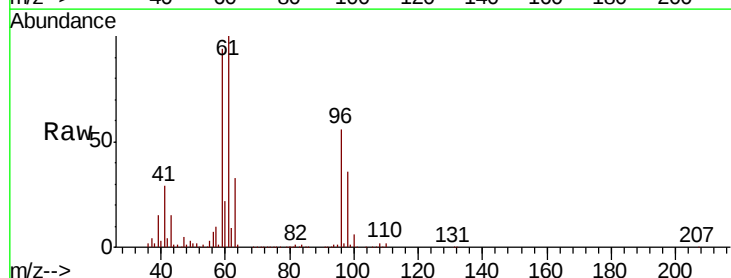
MMDadoda
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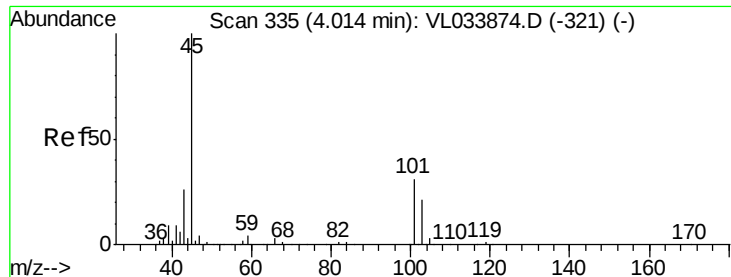


#18

1,1-Dichloroethene
Concen: 10.620 ppbv
RT: 4.34 min Scan# 437
Delta R.T. -0.00 min
Lab File: VL033902.D
Acq: 13 Jun 2019 18:02

Tgt Ion: 96 Resp: 593209
Ion Ratio Lower Upper
96 100
61 178.9 147.0 220.6
98 64.5 49.4 74.0





#19

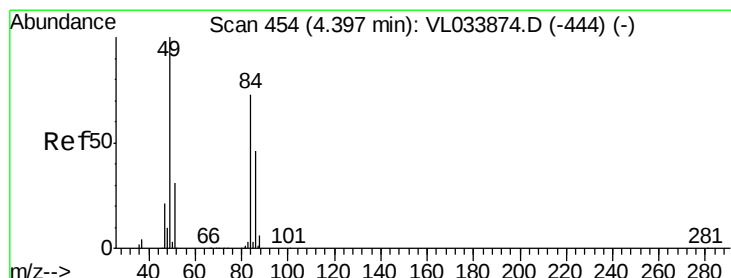
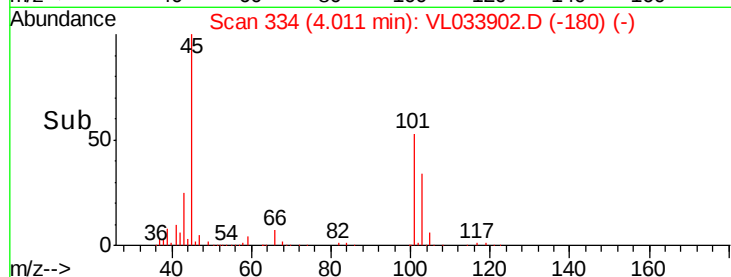
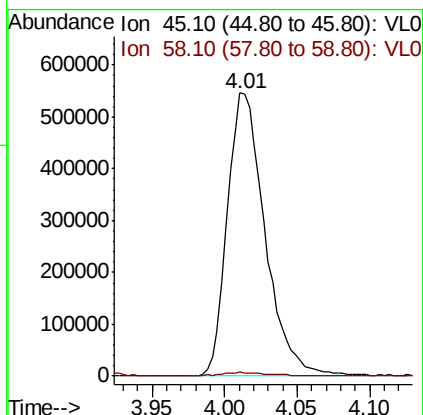
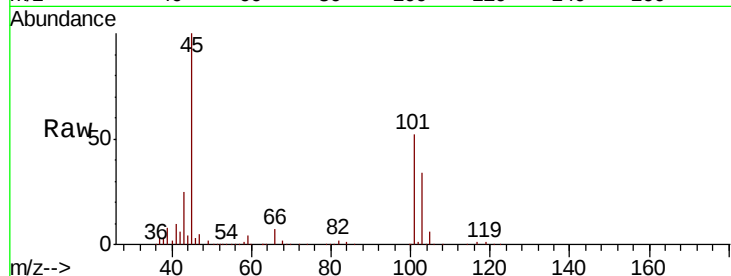
Isopropyl Alcohol
 Concen: 12.625 ppbv
 RT: 4.01 min Scan# 334
 Delta R.T. -0.00 min
 Lab File: VL033902.D
 Acq: 13 Jun 2019 18:02

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0613ABS01

Tot Ion: 45 Resp: 983023
 Ion Ratio Lower Upper
 45 100
 58 1.9 1.8 2.6

Manual Integrations
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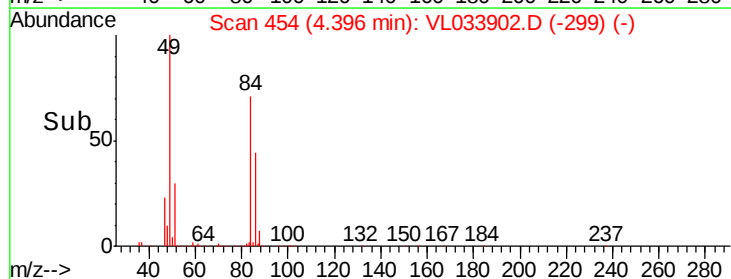
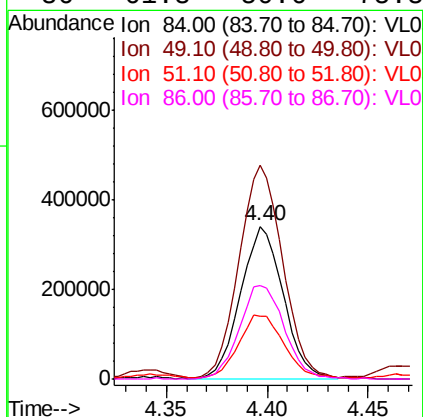
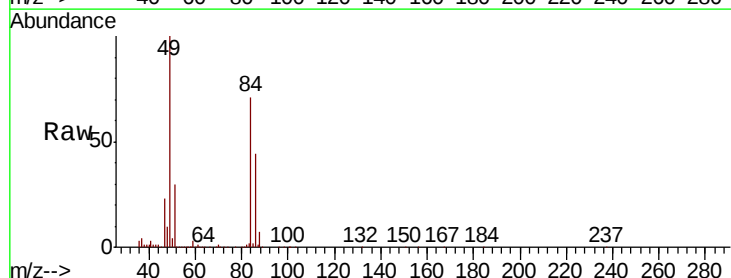
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 6/17/2019 12:37:05 AM

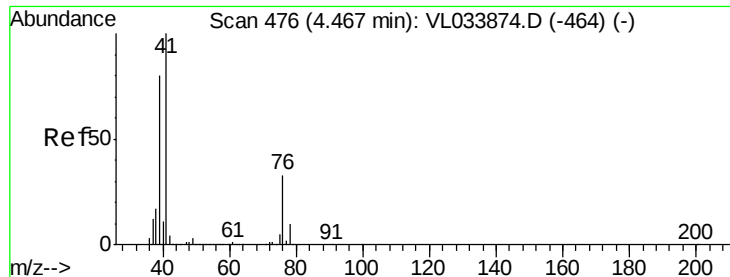


#20

Methylene Chloride
 Concen: 9.467 ppbv
 RT: 4.40 min Scan# 454
 Delta R.T. -0.00 min
 Lab File: VL033902.D
 Acq: 13 Jun 2019 18:02

Tgt Ion: 84 Resp: 503214
 Ion Ratio Lower Upper
 84 100
 49 139.5 110.0 165.0
 51 40.6 34.6 51.8
 86 61.8 50.6 75.8





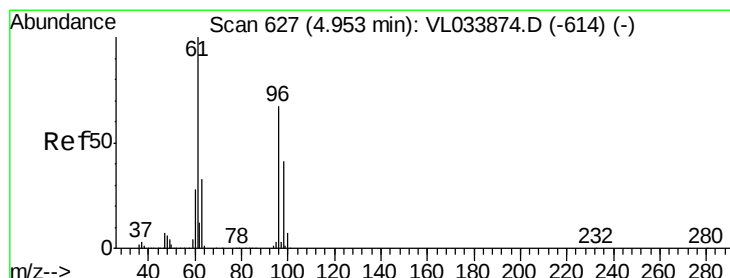
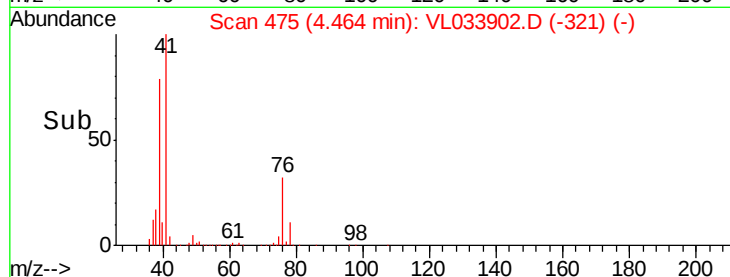
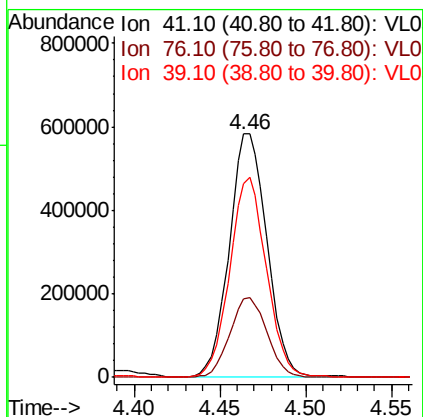
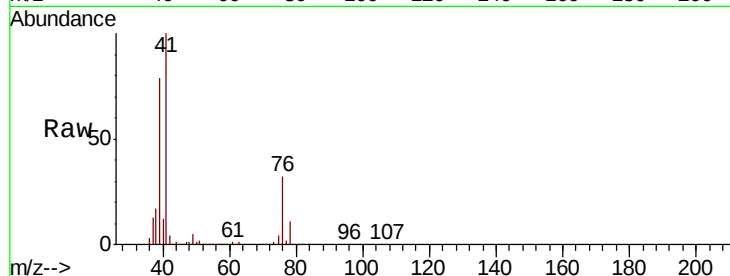
#21
Allvl Chloride
Concen: 11.464 ppbv
RT: 4.46 min Scan# 475
Delta R.T. -0.00 min
Lab File: VL033902.D
Acq: 13 Jun 2019 18:02

Instrument :
MSVOA_L
ClientSampleId :
VL0613ABS01

Tot Ion	Ratio	Lower	Upper
41	100		
76	32.6	26.6	39.8
39	80.4	65.2	97.8

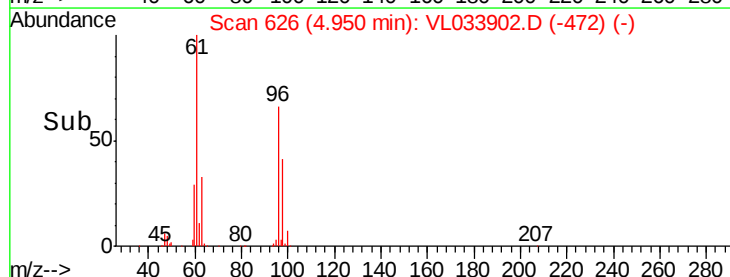
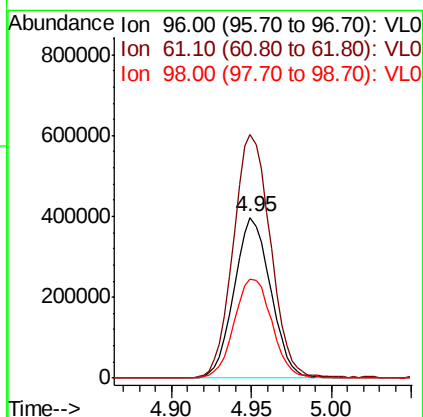
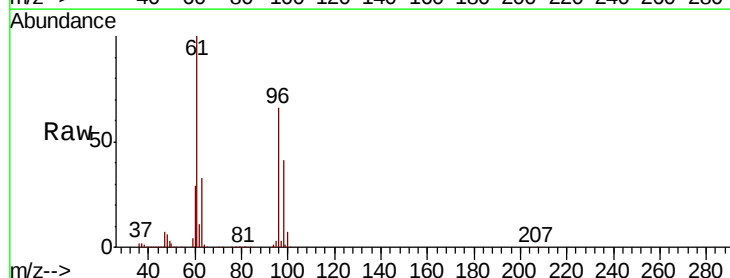
Manual Integrations
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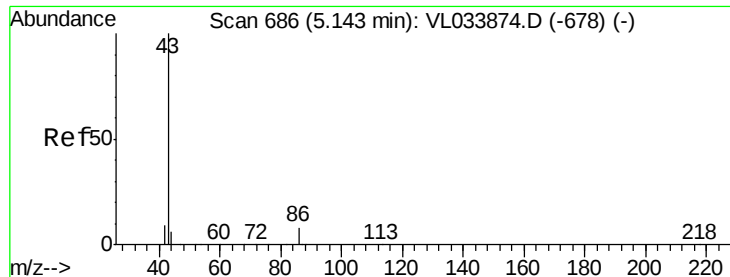
MMDadoda
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#22
trans-1,2-Dichloroethene
Concen: 10.425 ppbv
RT: 4.95 min Scan# 626
Delta R.T. -0.00 min
Lab File: VL033902.D
Acq: 13 Jun 2019 18:02

Tgt Ion	Ratio	Lower	Upper
96	100		
61	151.7	119.0	178.6
98	61.8	48.3	72.5





#23

Vinyl Acetate

Concen: 11.929 ppbv

RT: 5.14 min Scan# 686

Delta R.T. -0.00 min

Lab File: VL033902.D

Acq: 13 Jun 2019 18:02

Instrument :

MSVOA_L

ClientSampleId :

VL0613ABS01

Tot Ion: 43 Resp: 1889856

Ion Ratio Lower Upper

43 100

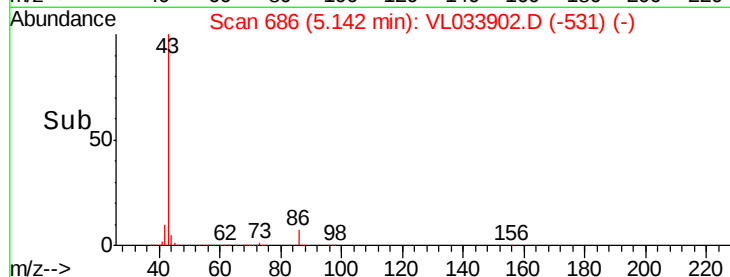
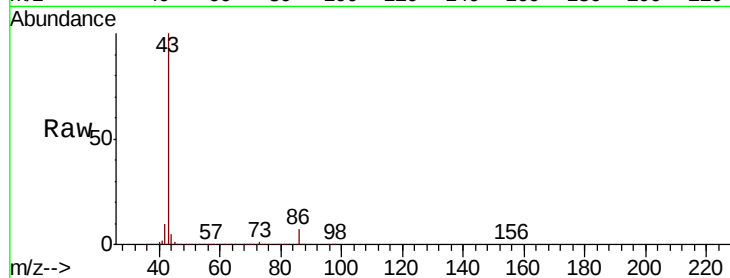
86 7.0 5.8 8.8

42 9.8 7.8 11.8

44 5.2 4.2 6.4

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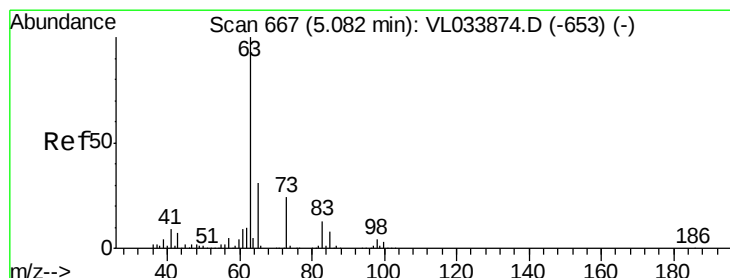
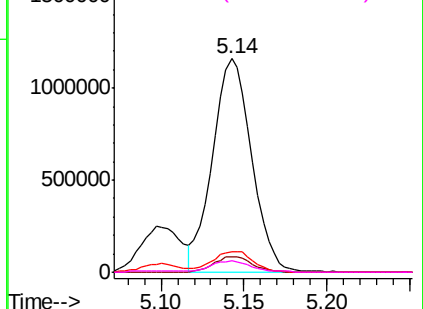


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 10.718 ppbv

RT: 5.08 min Scan# 667

Delta R.T. -0.00 min

Lab File: VL033902.D

Acq: 13 Jun 2019 18:02

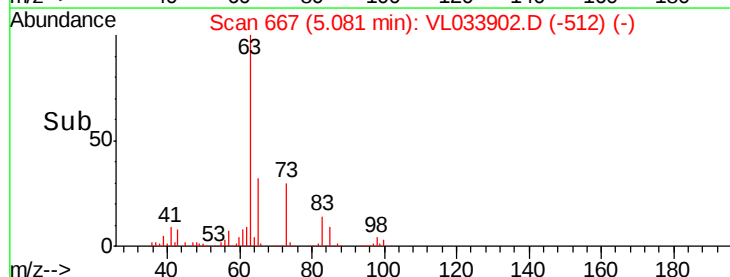
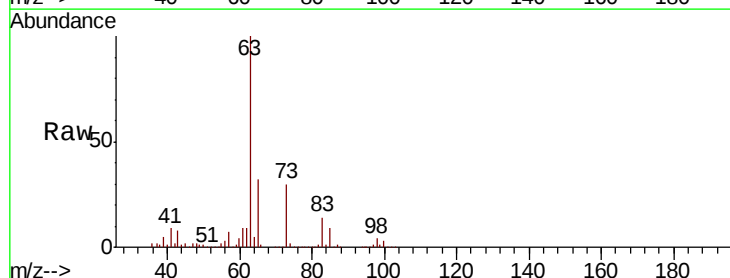
Tgt Ion: 63 Resp: 1320714

Ion Ratio Lower Upper

63 100

98 4.0 2.2 6.6

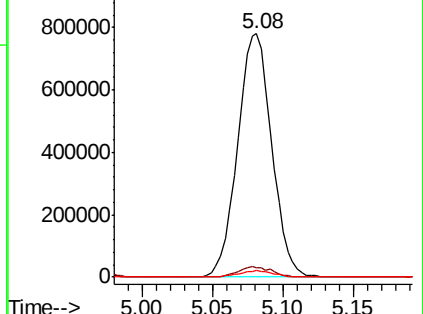
100 2.7 1.3 3.8

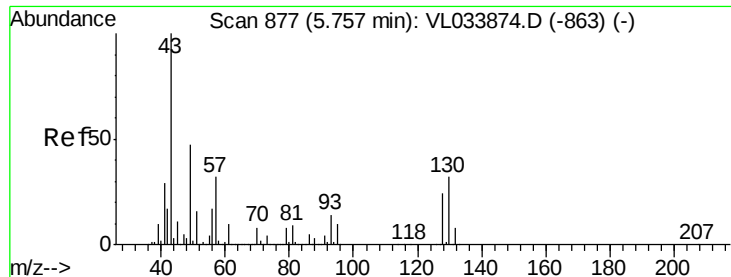


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





#25

Ethyl Acetate

Concen: 10.838 ppbv

RT: 5.75 min Scan# 876

Delta R.T. -0.00 min

Lab File: VL033902.D

Acq: 13 Jun 2019 18:02

Instrument :

MSVOA_L

ClientSampleId :

VL0613ABS01

Tot Ion: 43 Resp: 2249740

Ion Ratio Lower Upper

43 100

45 10.0 7.9 11.9

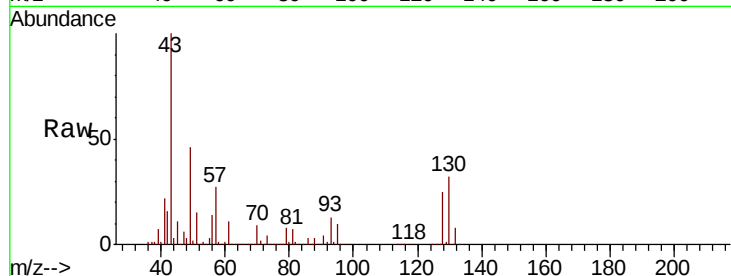
61 9.5 7.8 11.6

70 7.5 5.8 8.6

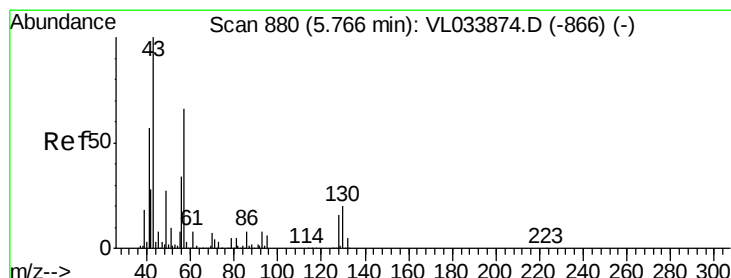
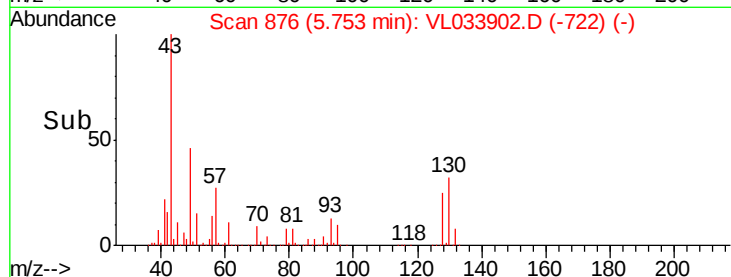
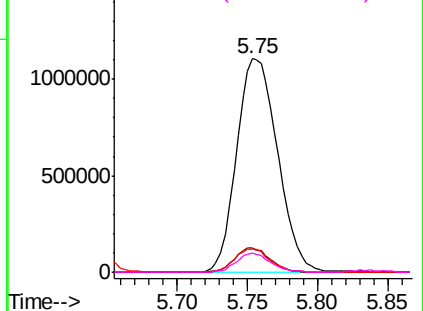
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Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 45.10 (44.80 to 45.80): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 10.409 ppbv

RT: 5.77 min Scan# 880

Delta R.T. -0.00 min

Lab File: VL033902.D

Acq: 13 Jun 2019 18:02

Tgt Ion: 57 Resp: 983701

Ion Ratio Lower Upper

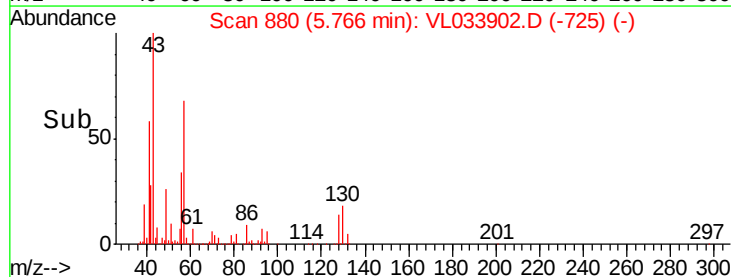
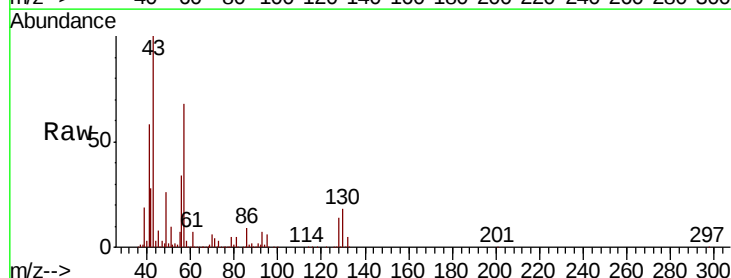
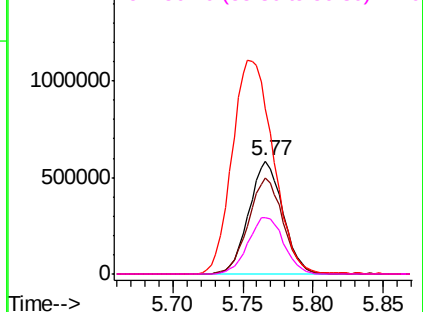
57 100

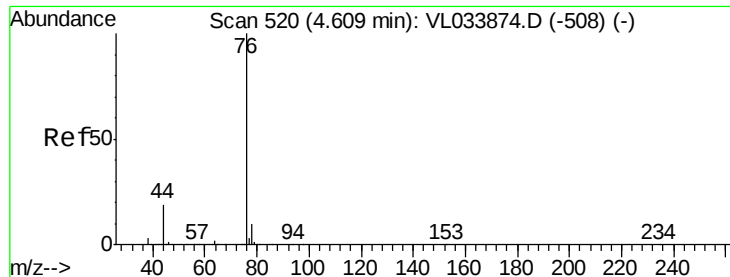
41 87.3 71.4 107.2

43 229.8 183.7 275.5

56 52.4 42.7 64.1

Abundance Ion 57.10 (56.80 to 57.80): VL0
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





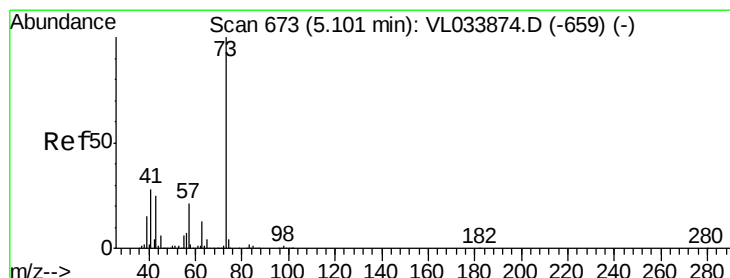
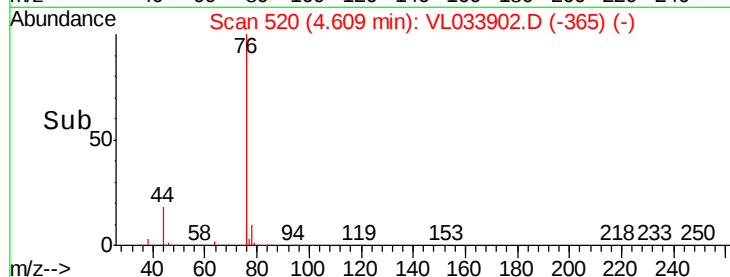
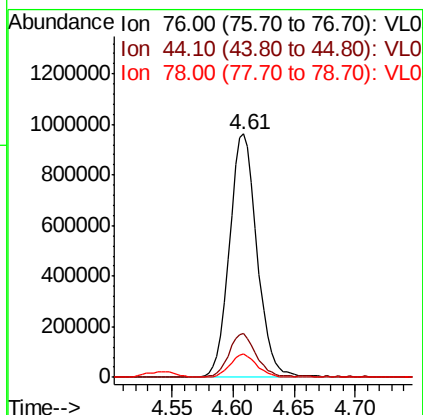
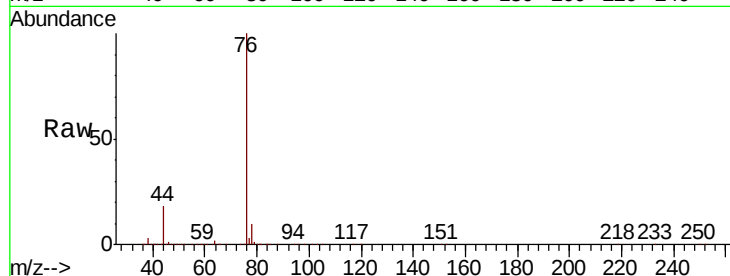
#27
Carbon Disulfide
Concen: 11.599 ppbv
RT: 4.61 min Scan# 520
Delta R.T. -0.00 min
Lab File: VL033902.D
Acq: 13 Jun 2019 18:02

Instrument :
MSVOA_L
ClientSampleId :
VL0613ABS01

Tot Ion	Ratio	Lower	Upper
76	100		
44	17.4	14.4	21.6
78	9.4	7.5	11.3

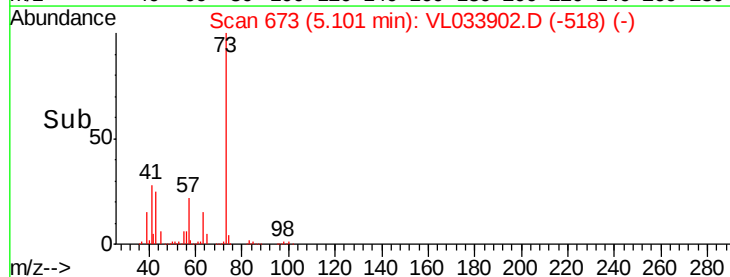
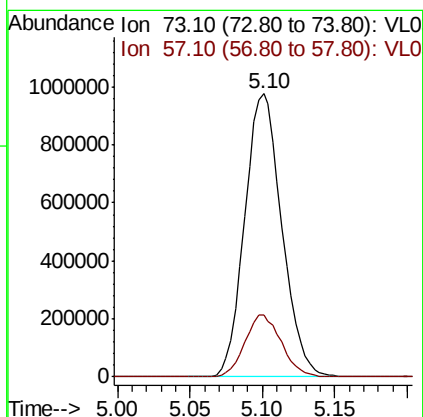
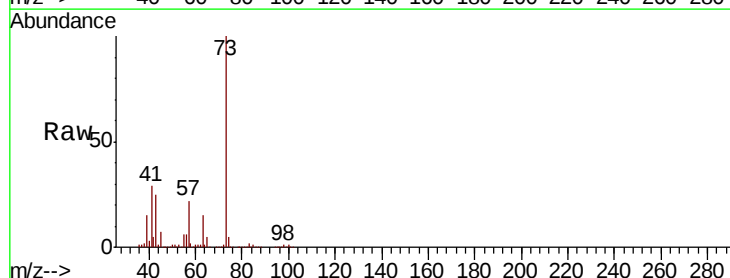
Manual Integrations
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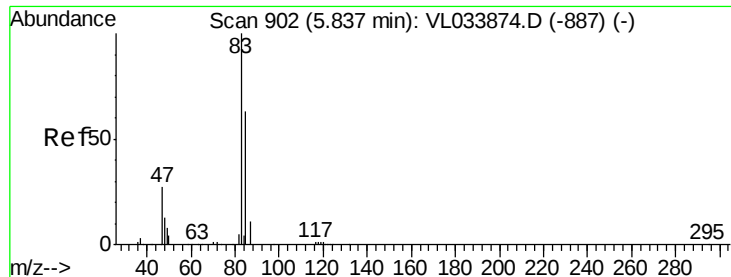
MMDadoda
6/17/2019 12:37:05 AM



#28
Methyl tert-Butyl Ether
Concen: 12.183 ppbv
RT: 5.10 min Scan# 673
Delta R.T. -0.00 min
Lab File: VL033902.D
Acq: 13 Jun 2019 18:02

Tgt Ion	Ratio	Lower	Upper
73	100		
57	21.8	17.2	25.8





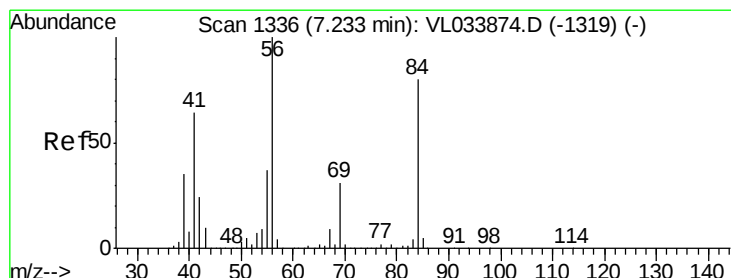
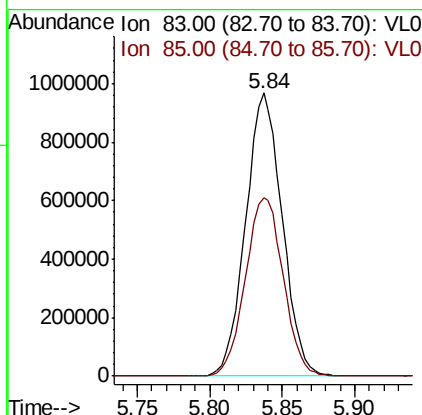
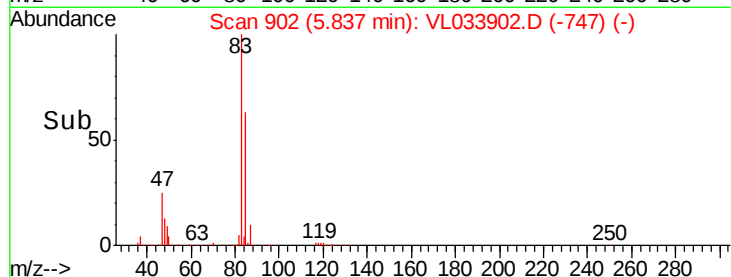
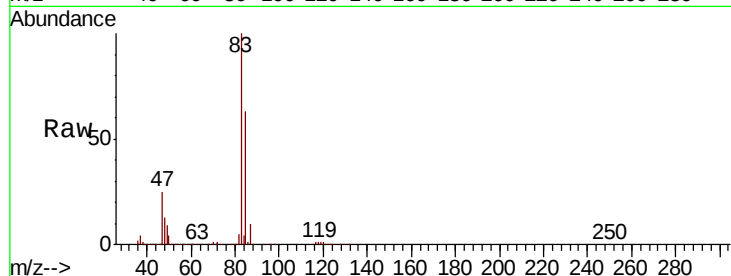
#29
Chloroform
Concen: 10.502 ppbv
RT: 5.84 min Scan# 902
Delta R.T. -0.00 min
Lab File: VL033902.D
Acq: 13 Jun 2019 18:02

Instrument :
MSVOA_L
ClientSampleId :
VL0613ABS01

Tot Ion: 83 Resp: 1699907
Ion Ratio Lower Upper
83 100
85 62.8 50.5 75.7

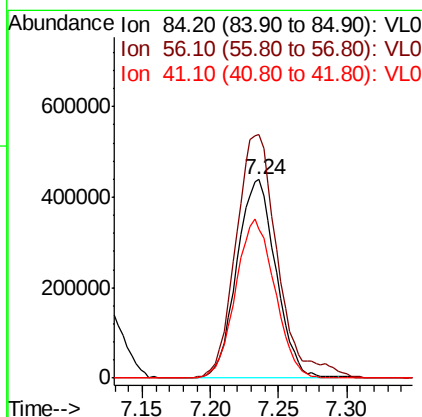
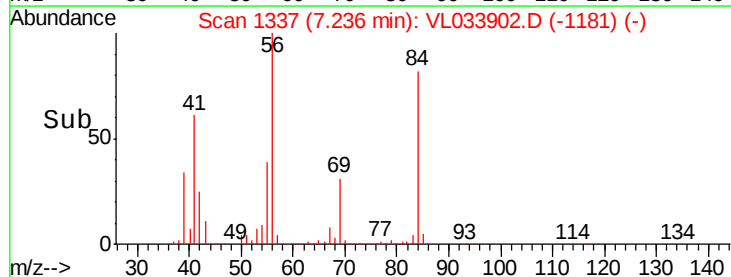
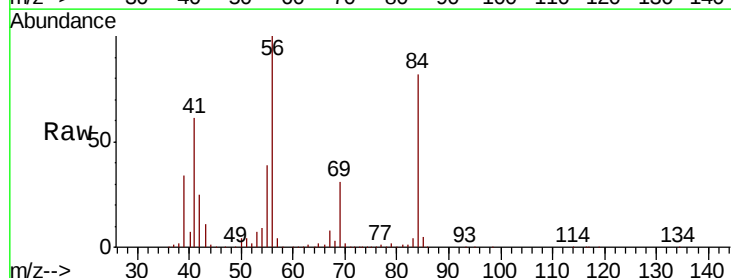
Manual Integrations
APPROVED

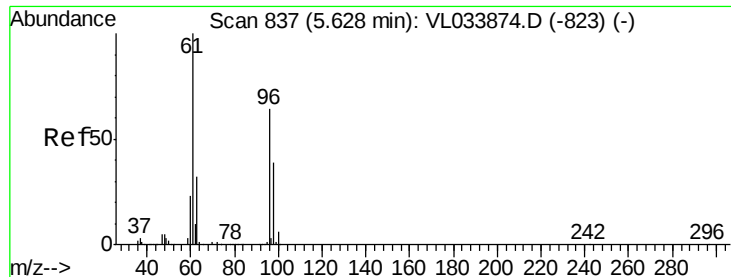
MMDadoda
6/17/2019 12:37:05 AM



#30
Cyclohexane
Concen: 13.085 ppbv
RT: 7.24 min Scan# 1337
Delta R.T. 0.00 min
Lab File: VL033902.D
Acq: 13 Jun 2019 18:02

Tgt Ion: 84 Resp: 873772
Ion Ratio Lower Upper
84 100
56 131.2 105.8 158.8
41 80.4 65.7 98.5





#31

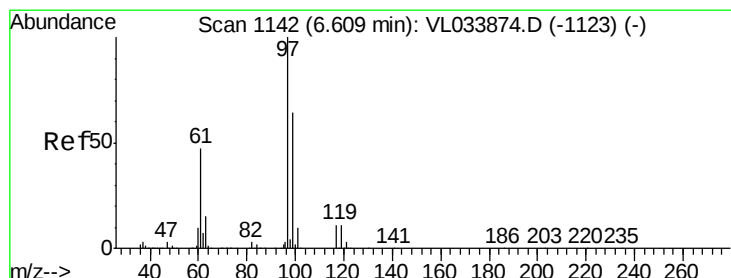
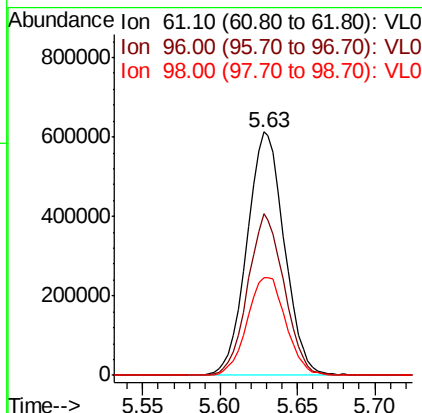
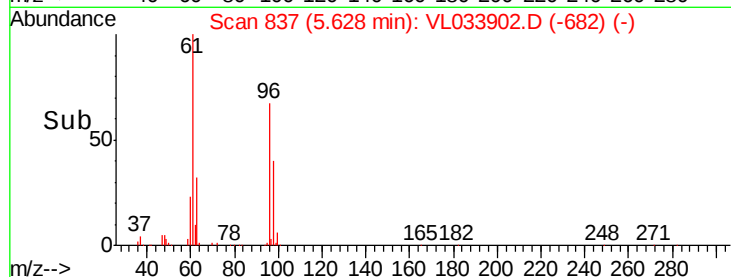
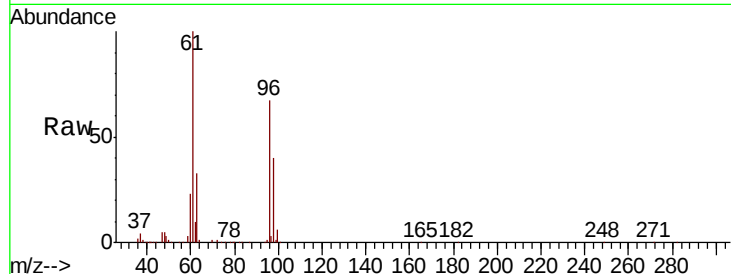
cis-1,2-Dichloroethene
Concen: 12.431 ppbv
RT: 5.63 min Scan# 837
Delta R.T. -0.00 min
Lab File: VL033902.D
Acq: 13 Jun 2019 18:02

Instrument :
MSVOA_L
ClientSampleId :
VL0613ABS01

Tot Ion	Ratio	Lower	Upper
61	100		
96	66.6	50.9	76.3
98	40.1	31.4	47.2

Manual Integrations
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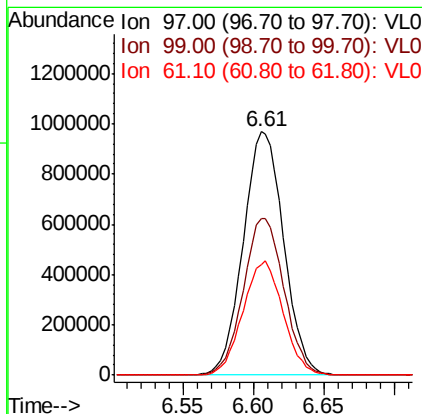
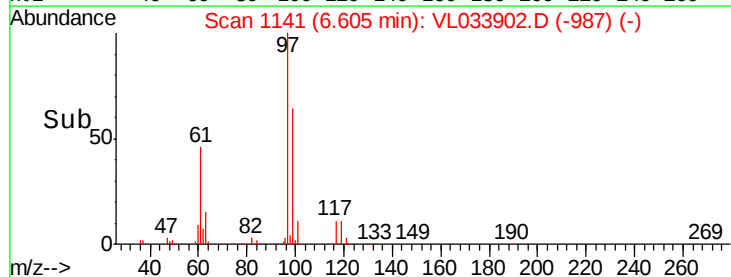
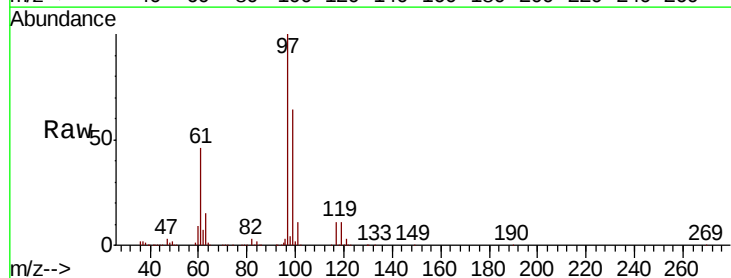
MMDadoda
6/17/2019 12:37:05 AM

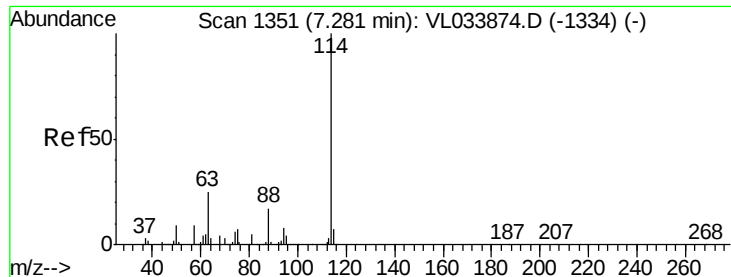


#32

1,1,1-Trichloroethane
Concen: 12.453 ppbv
RT: 6.61 min Scan# 1141
Delta R.T. -0.00 min
Lab File: VL033902.D
Acq: 13 Jun 2019 18:02

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.8	51.7	77.5
61	46.8	37.7	56.5





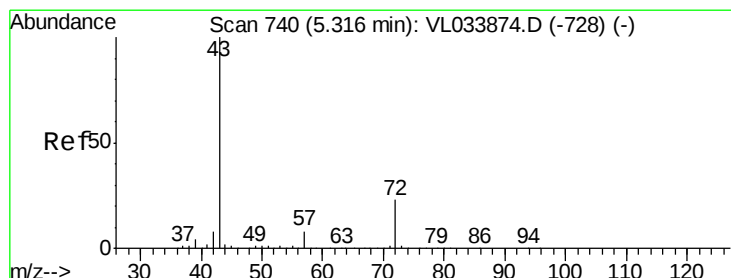
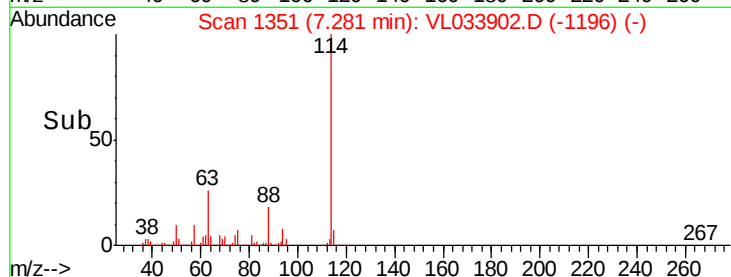
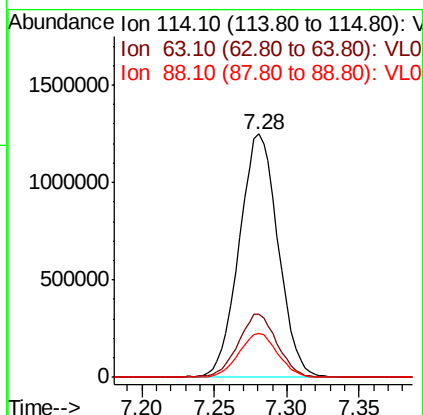
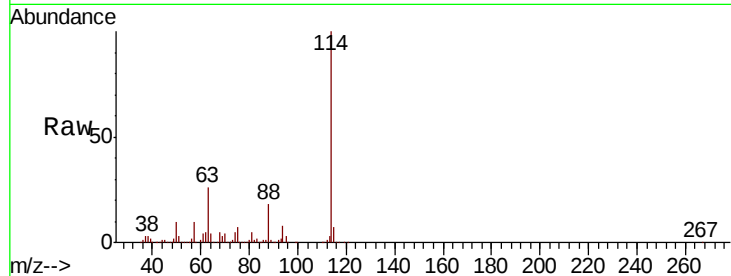
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.28 min Scan# 1351
 Delta R.T. -0.00 min
 Lab File: VL033902.D
 Acq: 13 Jun 2019 18:02

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0613ABS01

Tot Ion	Ratio	Lower	Upper
114	100		
63	26.3	21.1	31.7
88	18.0	14.2	21.4

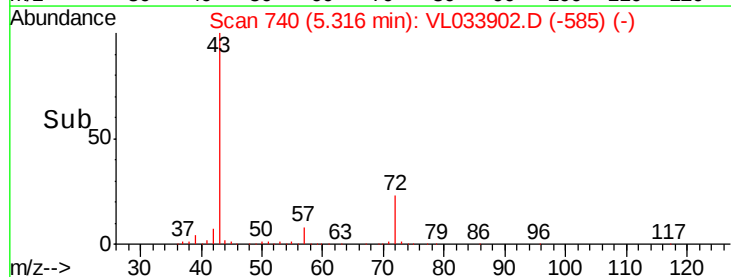
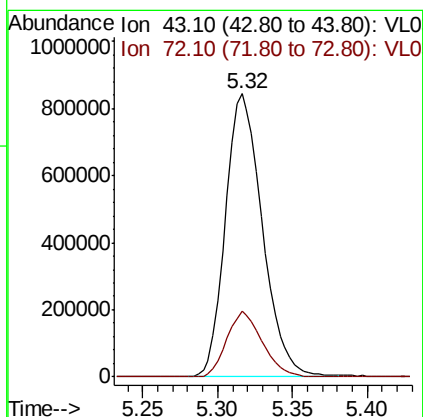
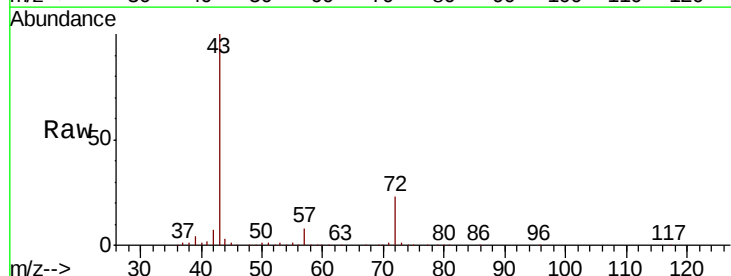
Manual Integrations
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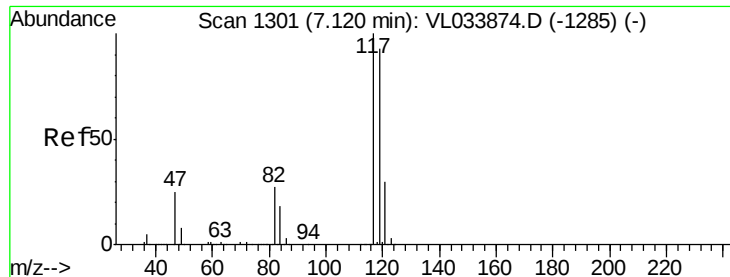
MMDadoda
 6/17/2019 12:37:05 AM



#34
 2-Butanone
 Concen: 10.964 ppbv
 RT: 5.32 min Scan# 740
 Delta R.T. -0.00 min
 Lab File: VL033902.D
 Acq: 13 Jun 2019 18:02

Tgt Ion	Ratio	Lower	Upper
43	100		
72	22.7	17.9	26.9





#35

Carbon Tetrachloride

Concen: 10.926 ppbv

RT: 7.12 min Scan# 1301

Delta R.T. -0.00 min

Lab File: VL033902.D

Acq: 13 Jun 2019 18:02

Instrument :

MSVOA_L

ClientSampleId :

VL0613ABS01

Tot Ion:117 Resp: 1971148

Ion Ratio Lower Upper

117 100

119 97.0 74.6 111.8

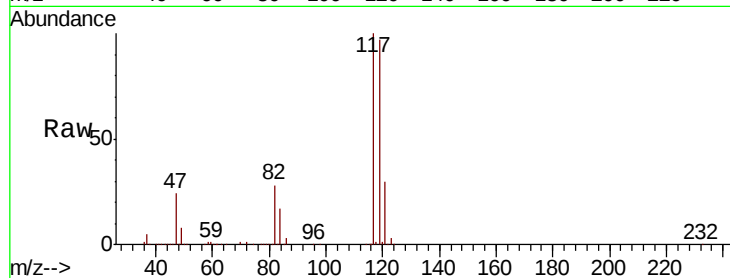
121 30.3 24.0 36.0

Manual Integrations

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MMDadoda

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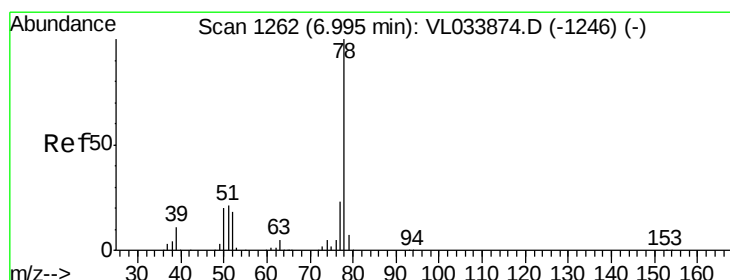
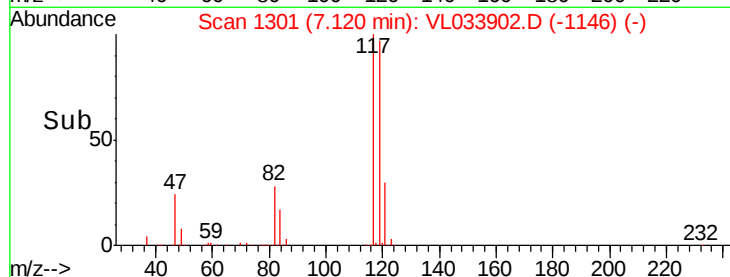
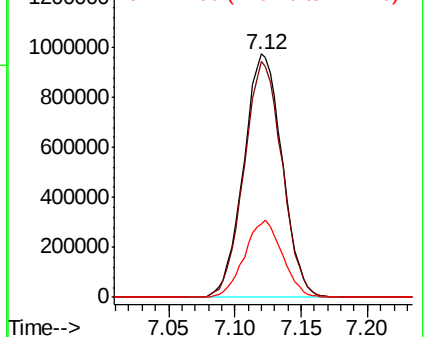


Abundance

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: 11.886 ppbv

RT: 6.99 min Scan# 1261

Delta R.T. -0.00 min

Lab File: VL033902.D

Acq: 13 Jun 2019 18:02

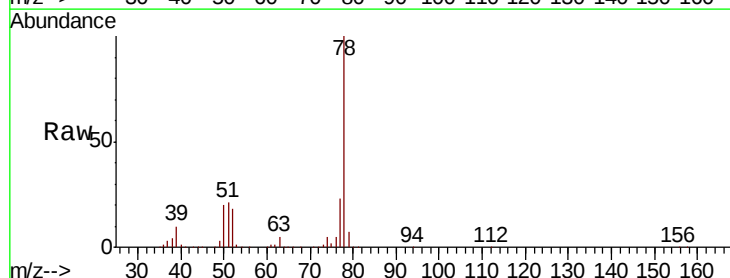
Tgt Ion: 78 Resp: 2120088

Ion Ratio Lower Upper

78 100

77 23.4 18.2 27.2

50 19.7 15.9 23.9

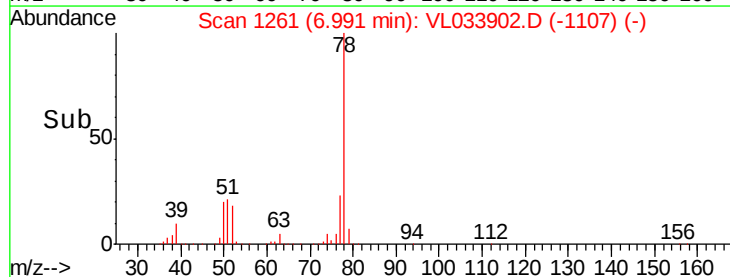
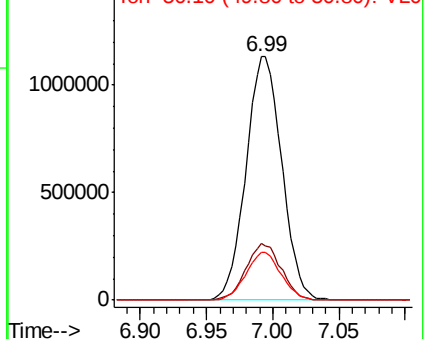


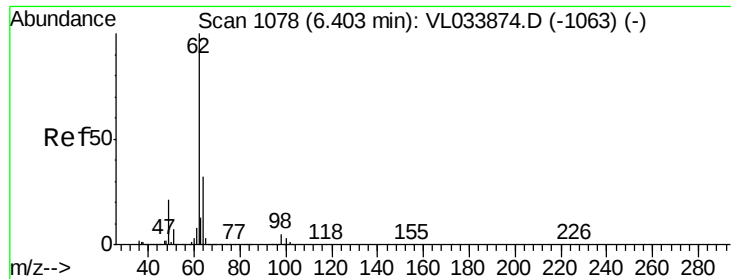
Abundance

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





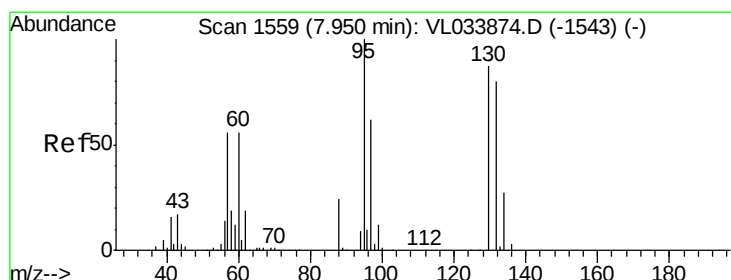
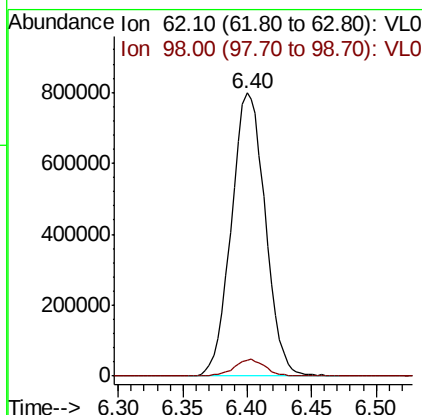
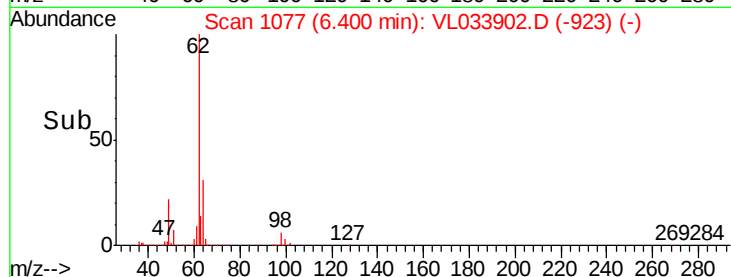
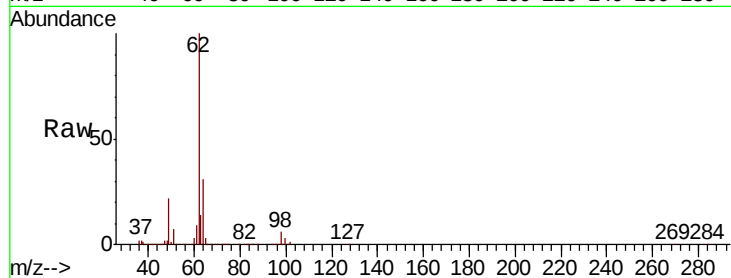
#37
 1,2-Dichloroethane
 Concen: 11.054 ppbv
 RT: 6.40 min Scan# 1077
 Delta R.T. -0.00 min
 Lab File: VL033902.D
 Acq: 13 Jun 2019 18:02

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0613ABS01

Tot Ion: 62 Resp: 1458230
 Ion Ratio Lower Upper
 62 100
 98 5.5 4.0 6.0

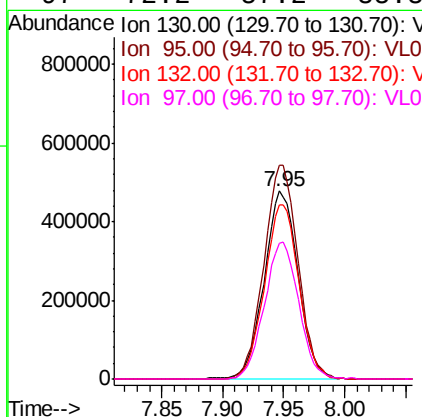
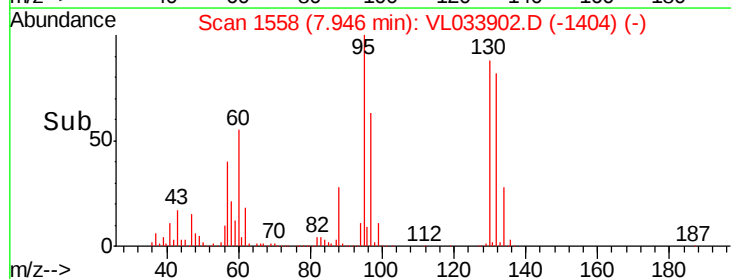
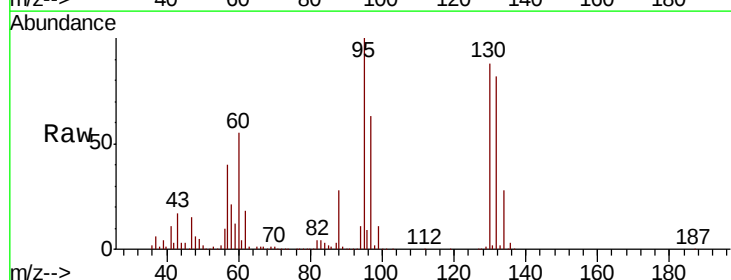
Manual Integrations
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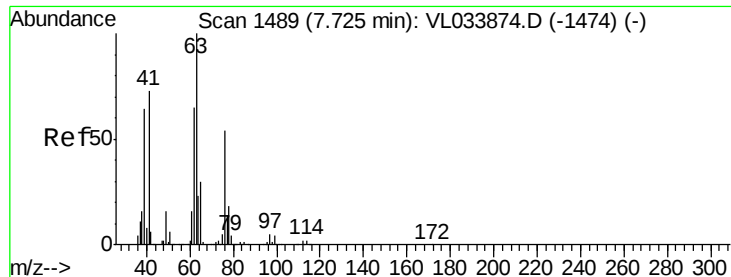
MMDadoda
 6/17/2019 12:37:05 AM



#38
 Trichloroethene
 Concen: 13.322 ppbv
 RT: 7.95 min Scan# 1558
 Delta R.T. -0.00 min
 Lab File: VL033902.D
 Acq: 13 Jun 2019 18:02

Tgt Ion: 130 Resp: 925239
 Ion Ratio Lower Upper
 130 100
 95 113.6 92.0 138.0
 132 92.8 73.8 110.8
 97 72.2 57.2 85.8





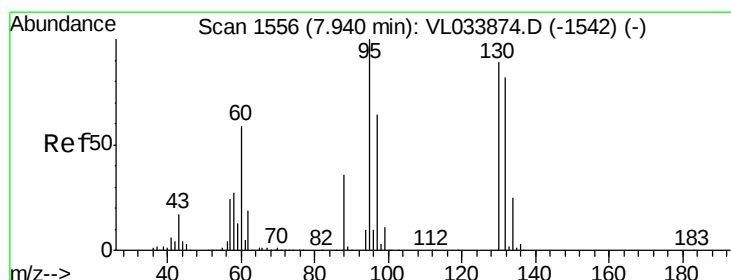
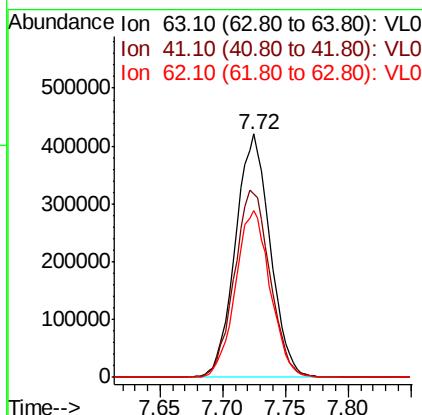
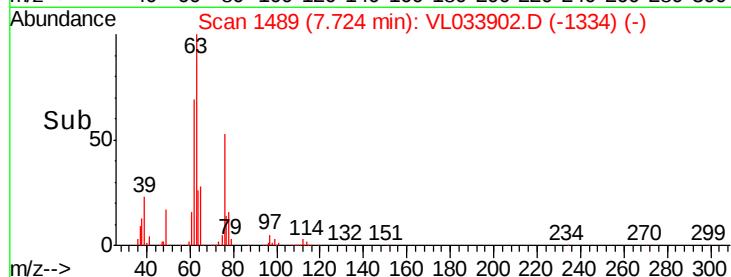
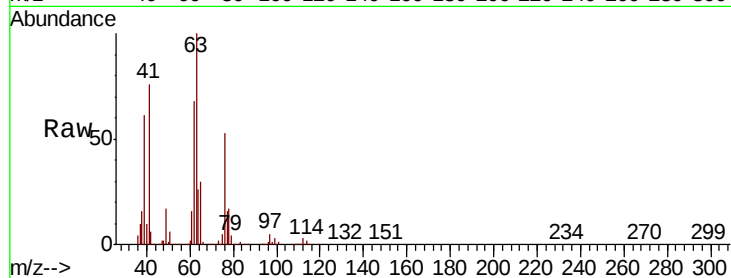
#39
 1,2-Dichloropropane
 Concen: 11.753 ppbv
 RT: 7.72 min Scan# 1489
 Delta R.T. -0.00 min
 Lab File: VL033902.D
 Acq: 13 Jun 2019 18:02

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0613ABS01

Tot Ion	Ratio	Lower	Upper
63	100		
41	75.5	58.7	88.1
62	68.5	51.9	77.9

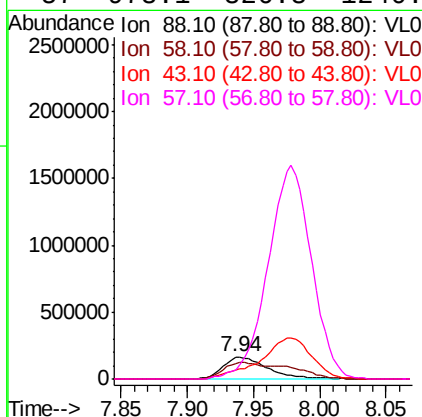
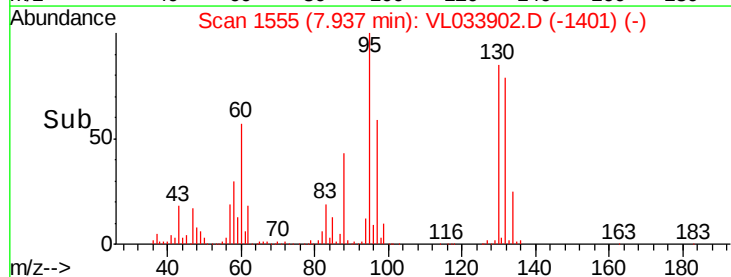
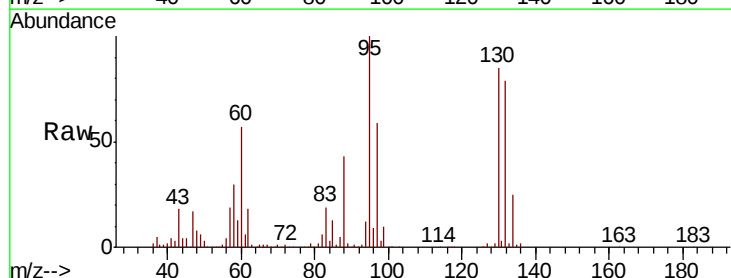
Manual Integrations
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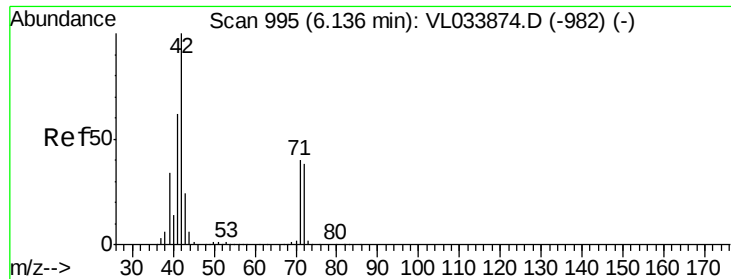
MMDadoda
 6/17/2019 12:37:05 AM



#40
 1,4-Dioxane
 Concen: 13.367 ppbv
 RT: 7.94 min Scan# 1555
 Delta R.T. -0.00 min
 Lab File: VL033902.D
 Acq: 13 Jun 2019 18:02

Tgt Ion	Ratio	Lower	Upper
88	100		
58	117.1	100.0	150.0
43	220.9	184.7	277.1
57	978.1	826.8	1240.2





#41

Tetrahydrofuran

Concen: 13.235 ppbv

RT: 6.13 min Scan# 994

Delta R.T. -0.00 min

Lab File: VL033902.D

Acq: 13 Jun 2019 18:02

Instrument :

MSVOA_L

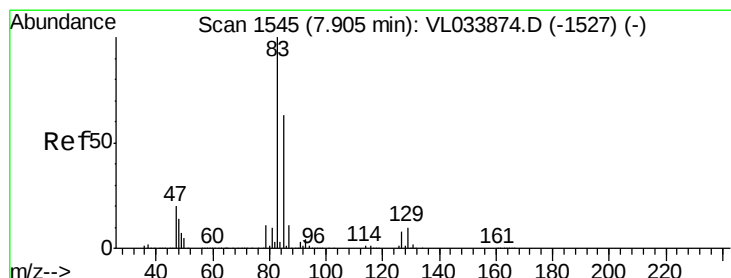
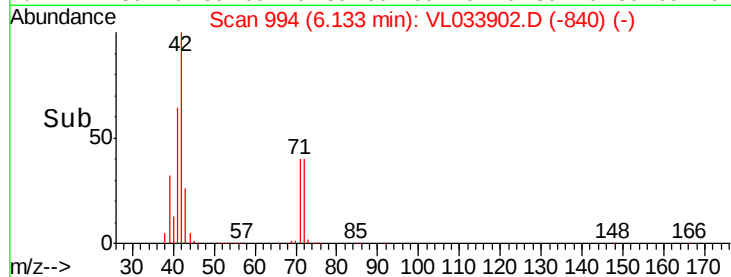
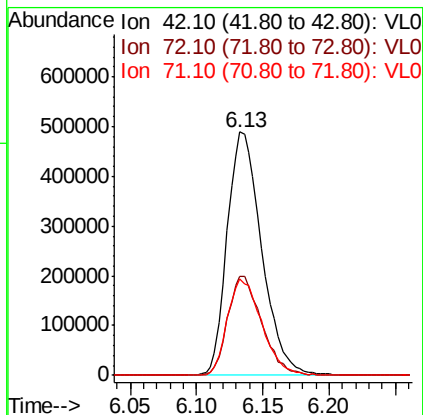
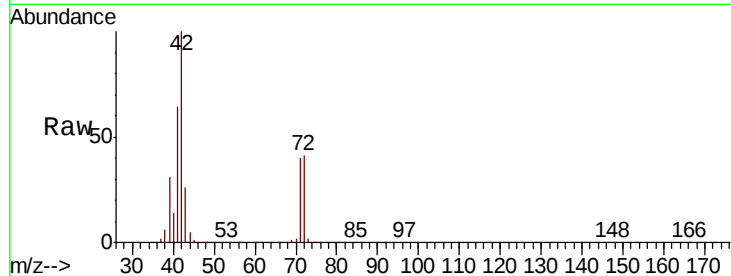
ClientSampleId :

VL0613ABS01

Tot Ion:	42	Resp:	884959
Ion	Ratio	Lower	Upper
42	100		
72	40.2	32.2	48.4
71	39.5	31.7	47.5

Manual Integrations
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MMDadoda
6/17/2019 12:37:05 AM



#42

Bromodichloromethane

Concen: 11.509 ppbv

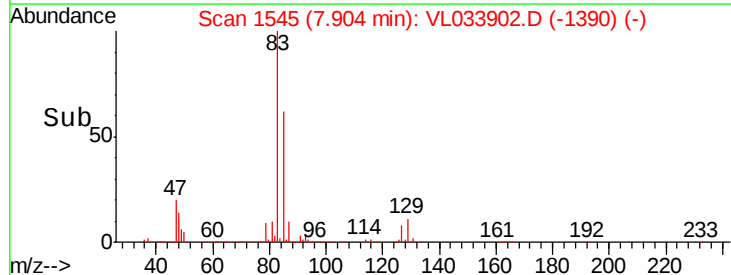
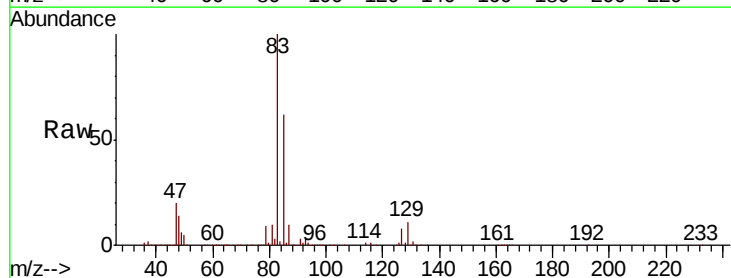
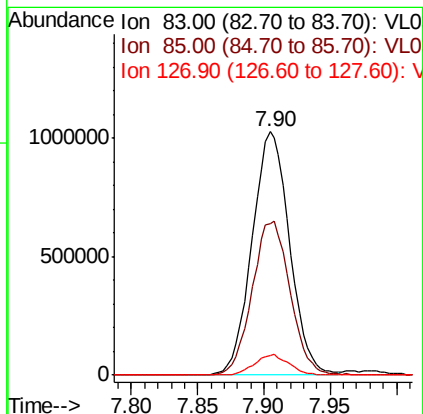
RT: 7.90 min Scan# 1545

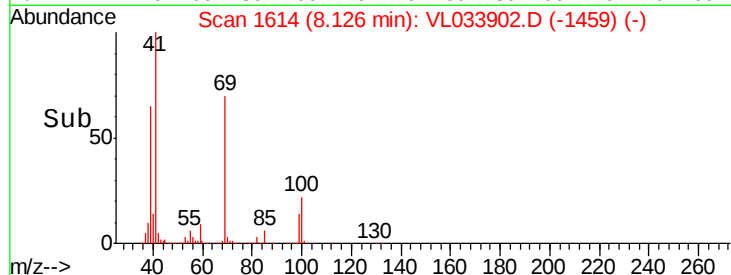
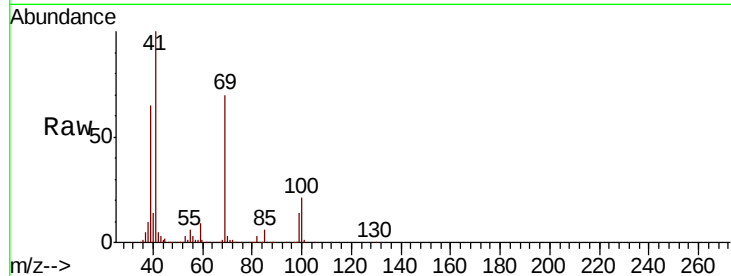
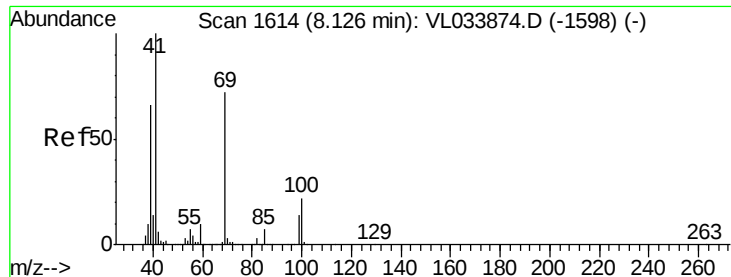
Delta R.T. -0.00 min

Lab File: VL033902.D

Acq: 13 Jun 2019 18:02

Tgt Ion:	83	Resp:	2028885
Ion	Ratio	Lower	Upper
83	100		
85	62.1	50.2	75.2
127	8.2	6.5	9.7





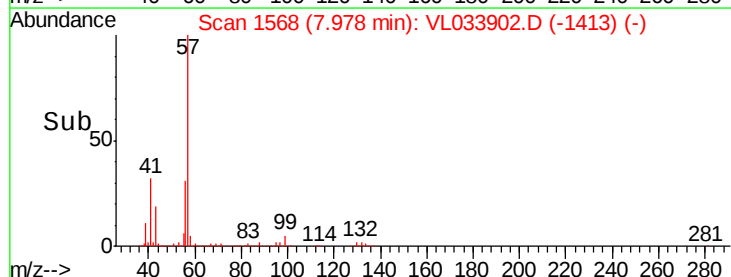
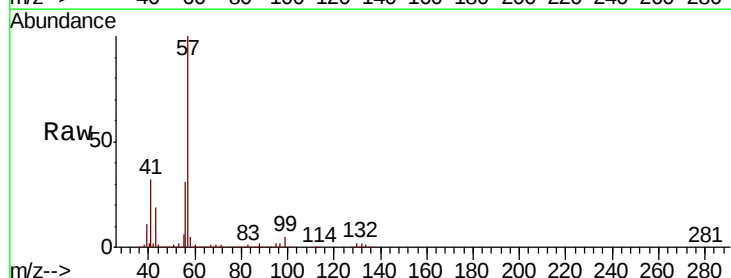
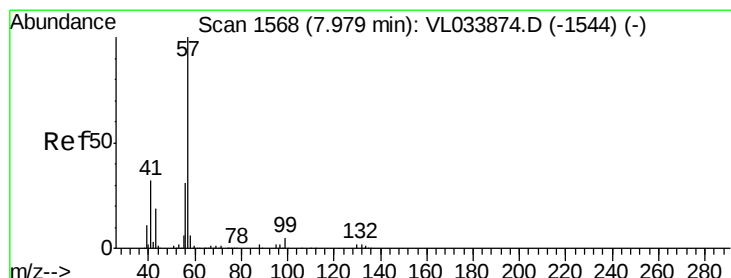
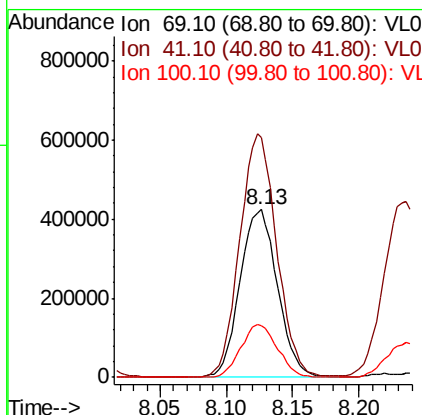
#43
Methvl Methacrylate
Concen: 12.481 ppbv
RT: 8.13 min Scan# 1614
Delta R.T. -0.00 min
Lab File: VL033902.D
Acq: 13 Jun 2019 18:02

Tot Ion	Ratio	Lower	Upper
69	100		
41	142.8	114.3	171.5
100	30.7	24.8	37.2

Instrument :
MSVOA_L
ClientSampleId :
VL0613ABS01

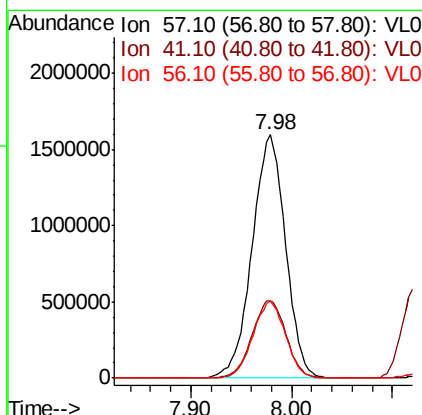
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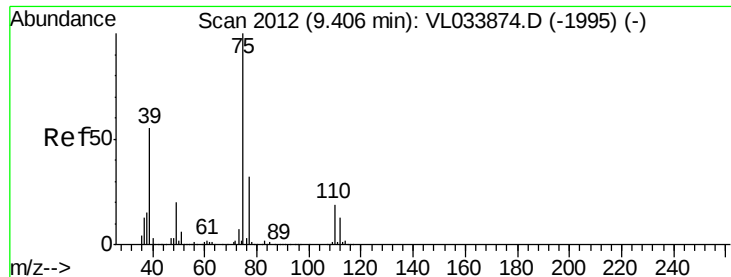
MMDadoda
6/17/2019 12:37:05 AM



#44
2,2,4-Trimethylpentane
Concen: 11.562 ppbv
RT: 7.98 min Scan# 1568
Delta R.T. -0.00 min
Lab File: VL033902.D
Acq: 13 Jun 2019 18:02

Tgt Ion	Ratio	Lower	Upper
57	100		
41	32.2	26.1	39.1
56	30.7	24.6	36.8





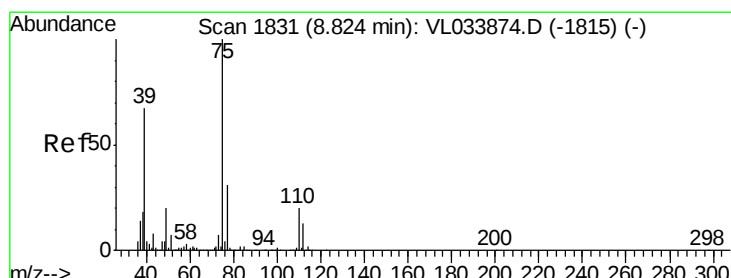
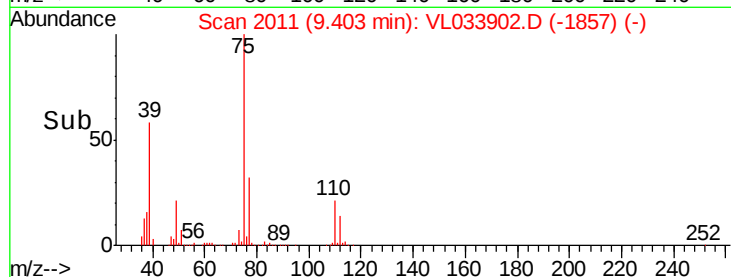
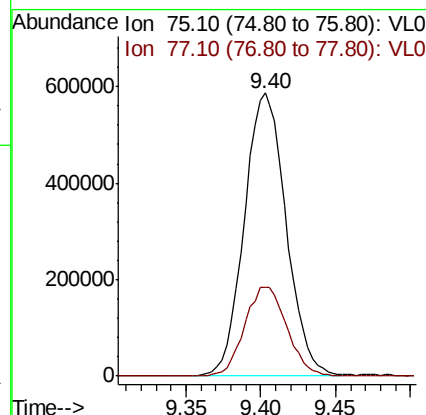
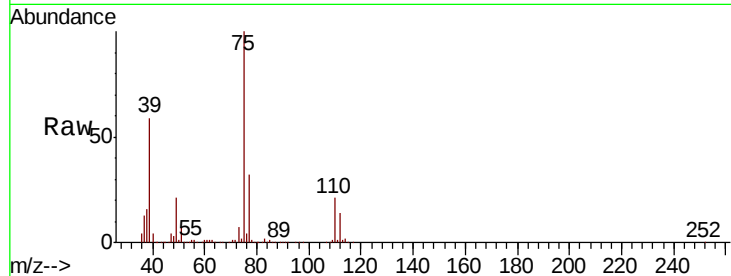
#45
t-1,3-Dichloropropene
Concen: 13.010 ppbv
RT: 9.40 min Scan# 2011
Delta R.T. -0.00 min
Lab File: VL033902.D
Acq: 13 Jun 2019 18:02

Instrument :
MSVOA_L
ClientSampleId :
VL0613ABS01

Tot Ion: 75 Resp: 1138852
Ion Ratio Lower Upper
75 100
77 31.5 25.4 38.2

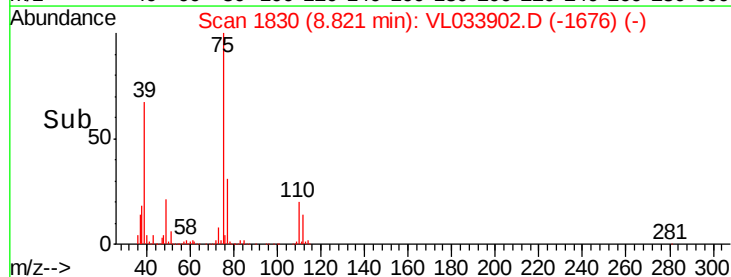
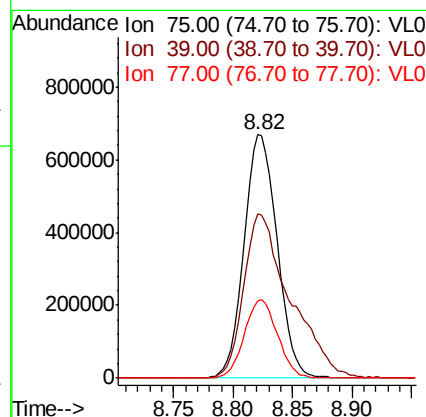
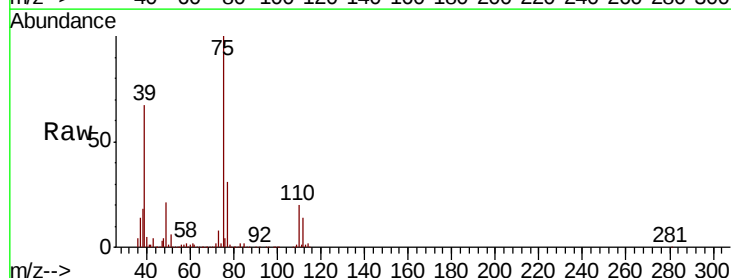
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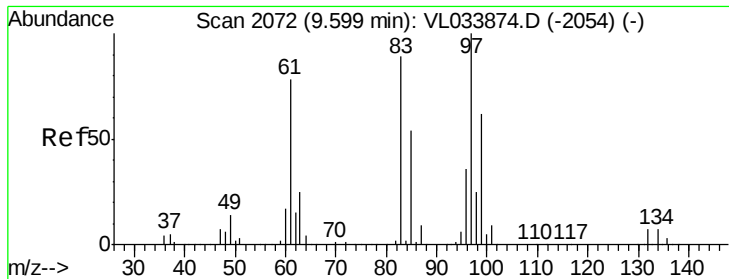
MMDadoda
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#46
cis-1,3-Dichloropropene
Concen: 12.872 ppbv
RT: 8.82 min Scan# 1830
Delta R.T. -0.00 min
Lab File: VL033902.D
Acq: 13 Jun 2019 18:02

Tgt Ion: 75 Resp: 1290945
Ion Ratio Lower Upper
75 100
39 67.3 53.8 80.8
77 31.5 24.6 36.8





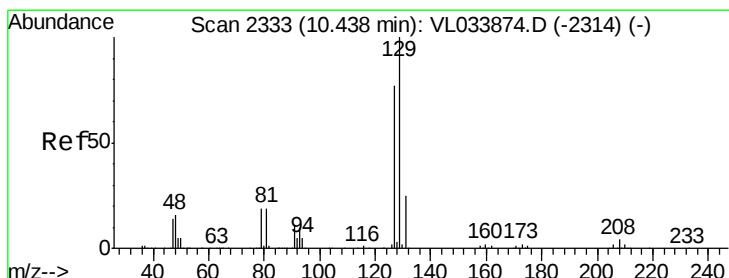
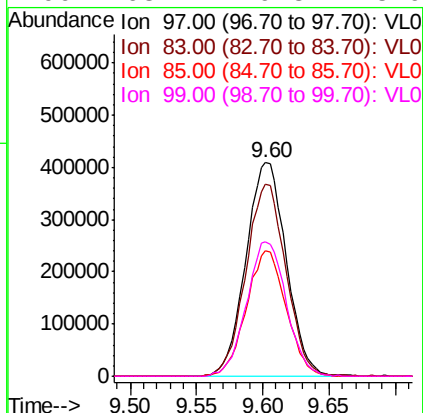
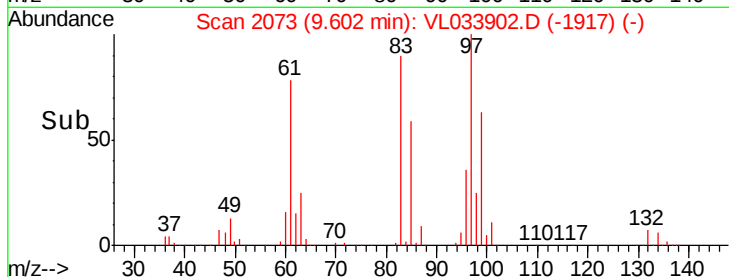
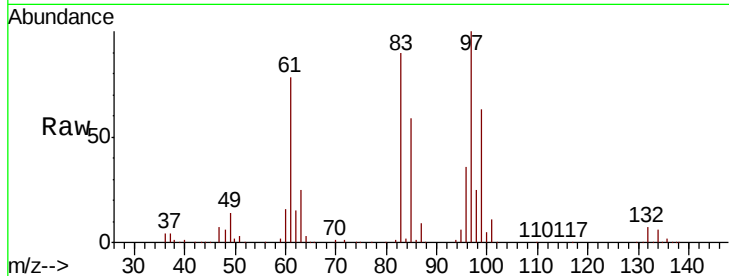
#47
 1,1,2-Trichloroethane
 Concen: 10.542 ppbv
 RT: 9.60 min Scan# 2073
 Delta R.T. 0.00 min
 Lab File: VL033902.D
 Acq: 13 Jun 2019 18:02

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0613ABS01

Tot Ion:	97	Resp:	865194
Ion	Ratio	Lower	Upper
97	100		
83	89.9	70.9	106.3
85	58.7	43.0	64.6
99	63.1	49.3	73.9

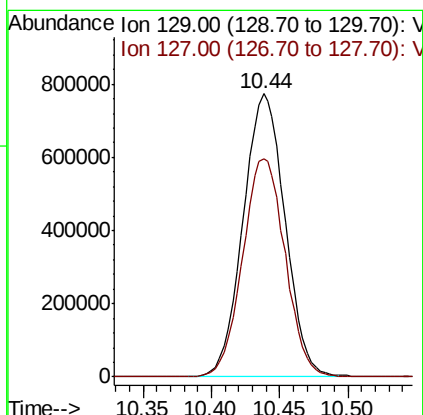
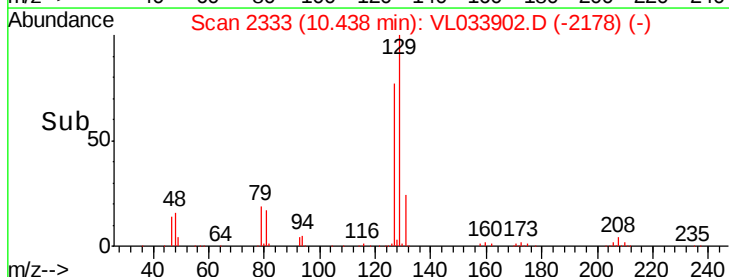
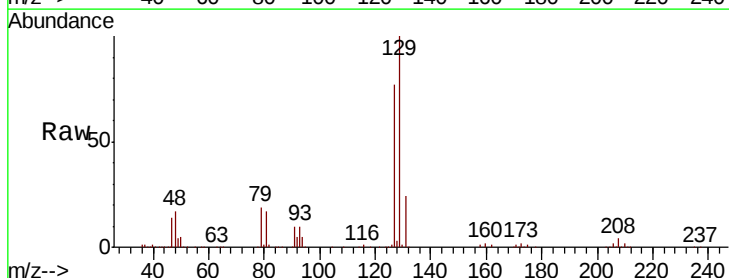
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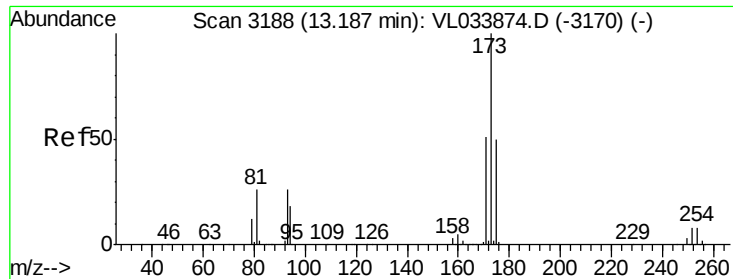
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#48
 Dibromochloromethane
 Concen: 11.187 ppbv
 RT: 10.44 min Scan# 2333
 Delta R.T. -0.00 min
 Lab File: VL033902.D
 Acq: 13 Jun 2019 18:02

Tgt Ion:	129	Resp:	1649959
Ion	Ratio	Lower	Upper
129	100		
127	78.3	38.6	115.7





#49

Bromoform

Concen: 11.368 ppbv

RT: 13.19 min Scan# 3188

Delta R.T. -0.00 min

Lab File: VL033902.D

Acq: 13 Jun 2019 18:02

Instrument :

MSVOA_L

ClientSampleId :

VL0613ABS01

Tot Ion:173 Resp: 1480111

Ion Ratio Lower Upper

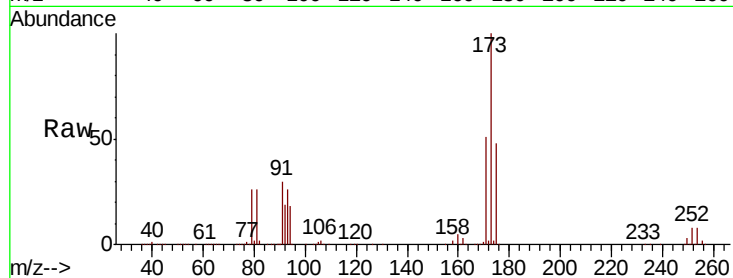
173 100

175 48.6 39.6 59.4

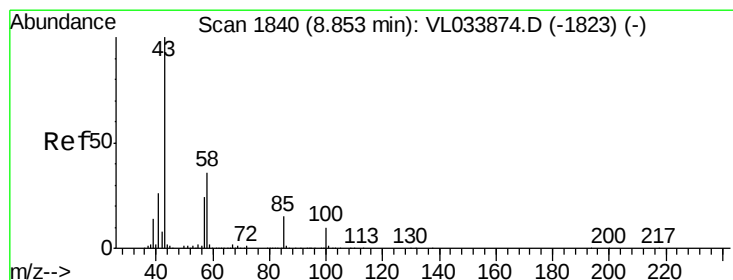
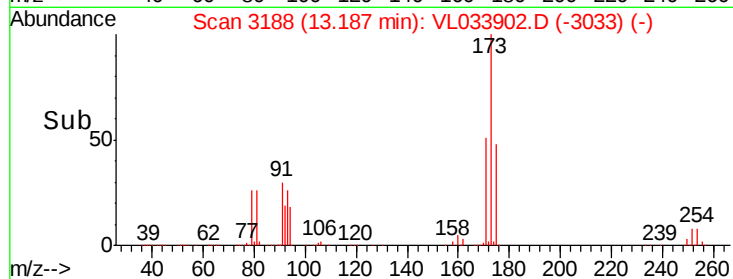
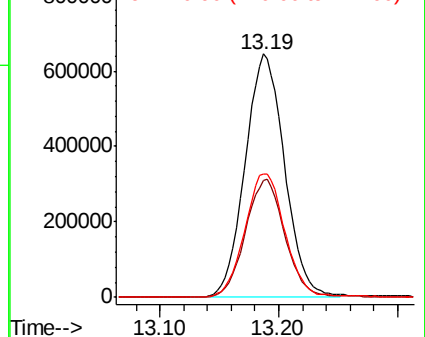
171 52.2 41.8 62.8

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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: 11.302 ppbv

RT: 8.85 min Scan# 1840

Delta R.T. -0.00 min

Lab File: VL033902.D

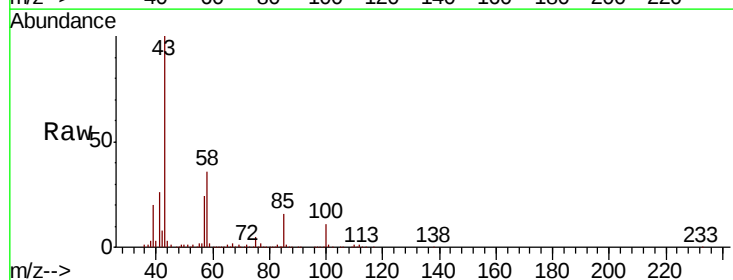
Acq: 13 Jun 2019 18:02

Tgt Ion: 43 Resp: 2220034

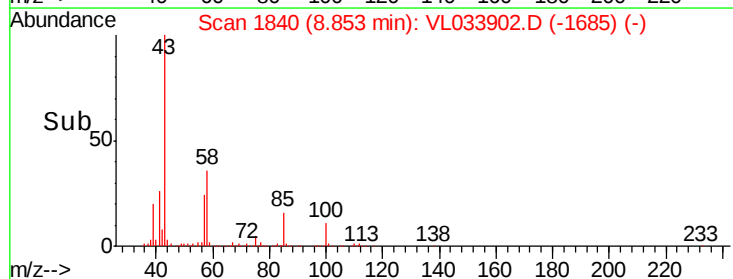
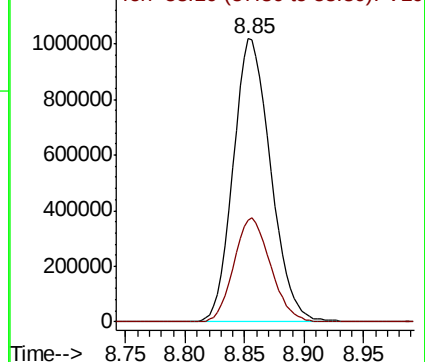
Ion Ratio Lower Upper

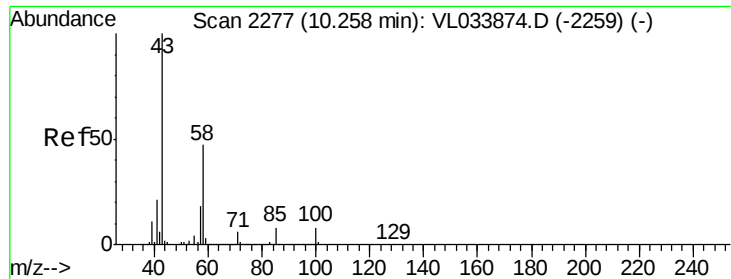
43 100

58 36.1 28.6 42.8



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





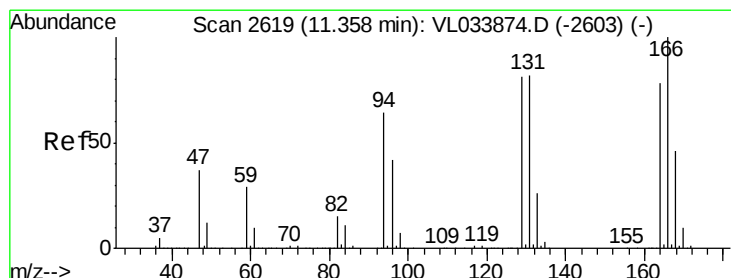
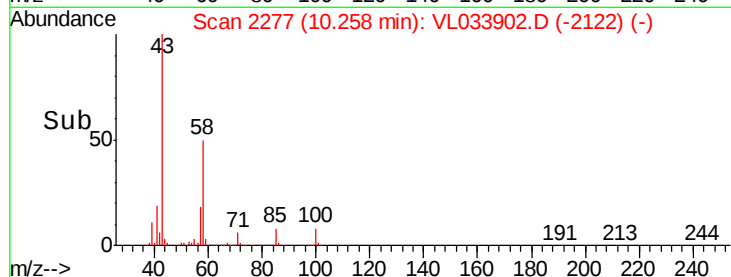
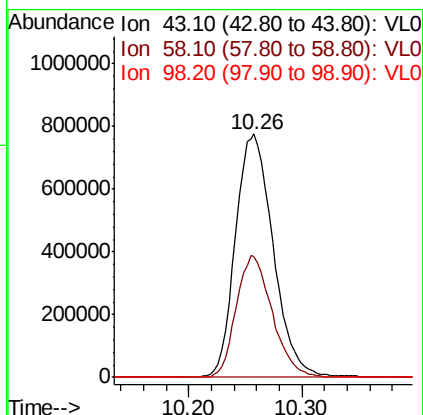
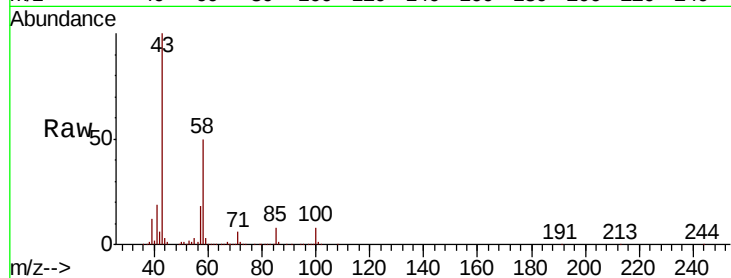
#51
2-Hexanone
Concen: 11.711 ppbv
RT: 10.26 min Scan# 2277
Delta R.T. -0.00 min
Lab File: VL033902.D
Acq: 13 Jun 2019 18:02

Instrument :
MSVOA_L
ClientSampled :
VL0613ABS01

Tot Ion: 43 Resp: 1796517
Ion Ratio Lower Upper
43 100
58 48.1 38.2 57.4
98 0.2 0.2 0.2

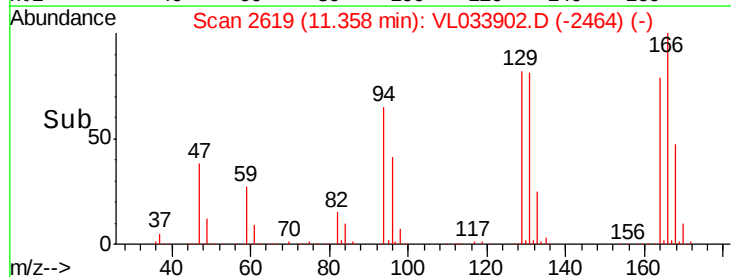
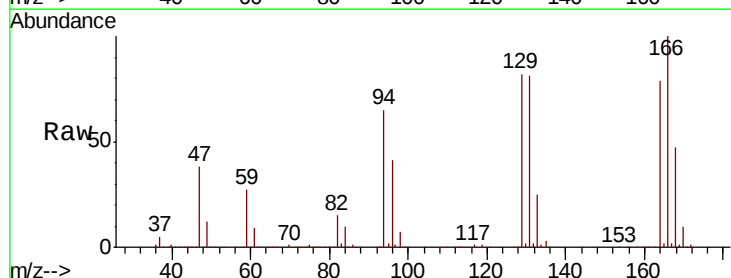
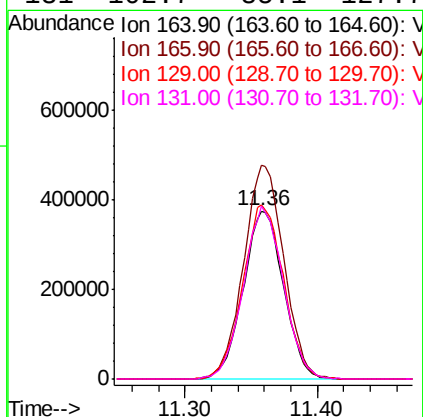
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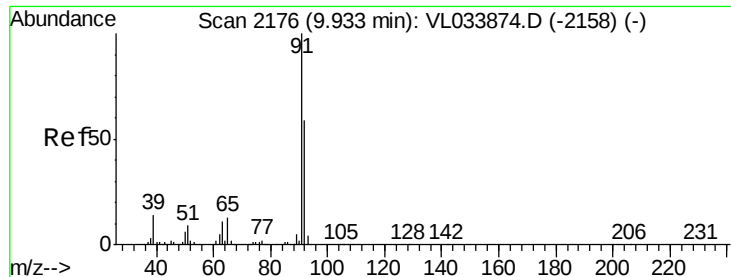
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#52
Tetrachloroethene
Concen: 12.574 ppbv
RT: 11.36 min Scan# 2619
Delta R.T. -0.00 min
Lab File: VL033902.D
Acq: 13 Jun 2019 18:02

Tgt Ion: 164 Resp: 789209
Ion Ratio Lower Upper
164 100
166 127.0 103.1 154.7
129 103.8 83.9 125.9
131 102.7 85.1 127.7





#53

Toluene

Concen: 12.124 ppbv

RT: 9.93 min Scan# 2176

Delta R.T. -0.00 min

Lab File: VL033902.D

Acq: 13 Jun 2019 18:02

Instrument :

MSVOA_L

ClientSampleId :

VL0613ABS01

Tot Ion: 91 Resp: 2393141

Ion Ratio Lower Upper

91 100

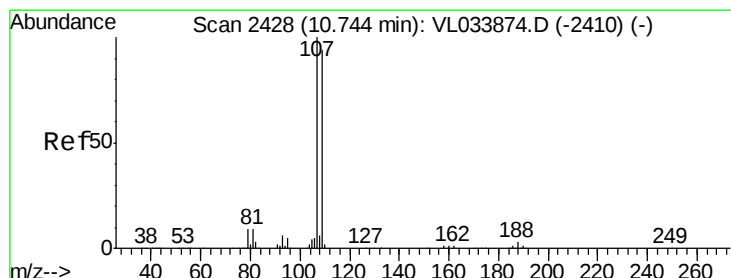
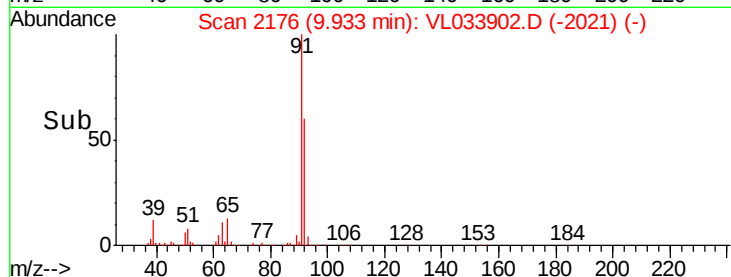
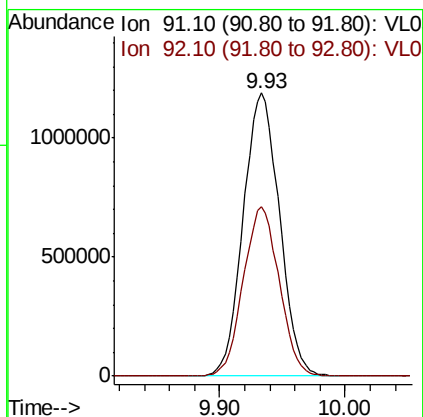
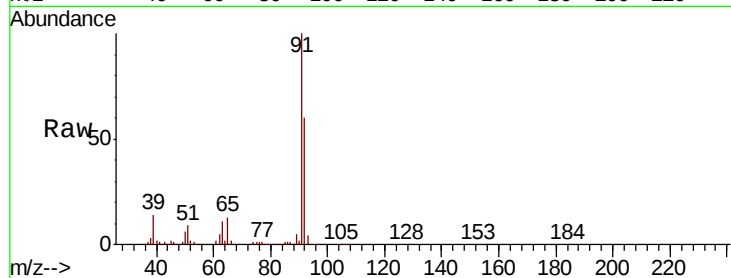
92 59.5 47.0 70.6

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#54

1,2-Dibromoethane

Concen: 11.367 ppbv

RT: 10.75 min Scan# 2429

Delta R.T. 0.00 min

Lab File: VL033902.D

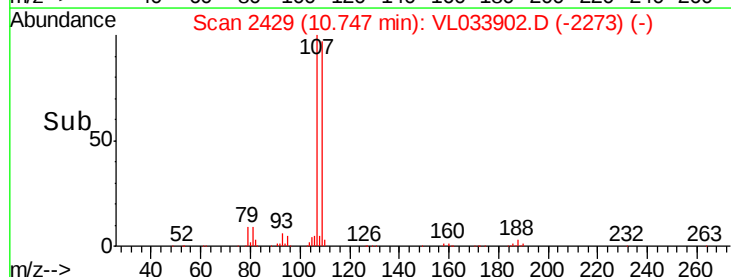
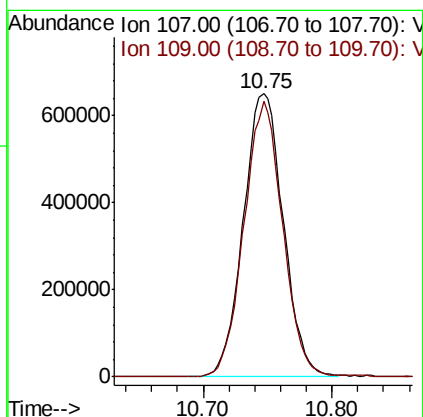
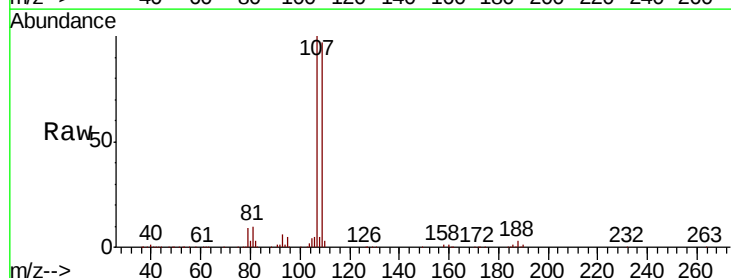
Acq: 13 Jun 2019 18:02

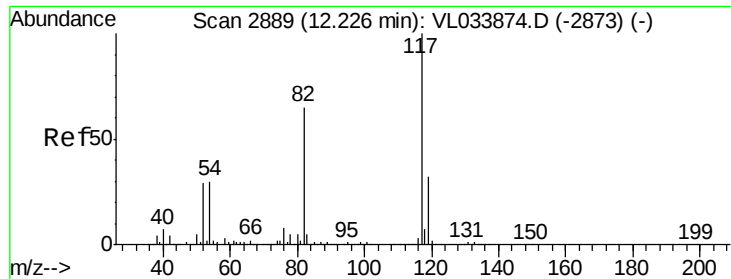
Tgt Ion: 107 Resp: 1406317

Ion Ratio Lower Upper

107 100

109 97.4 74.9 112.3





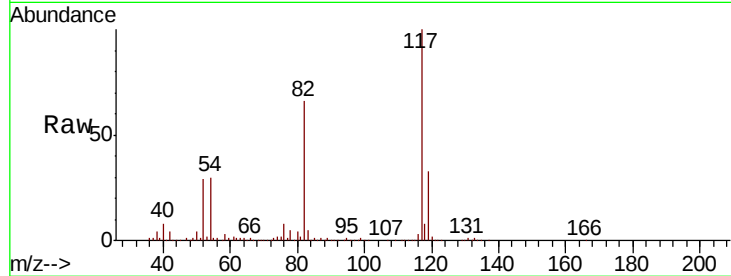
#55
Chlorobenzene-d5
Concen: 10.000 ppbv m
RT: 12.23 min Scan# 2889
Delta R.T. -0.00 min
Lab File: VL033902.D
Acq: 13 Jun 2019 18:02

Instrument :
MSVOA_L
ClientSampleId :
VL0613ABS01

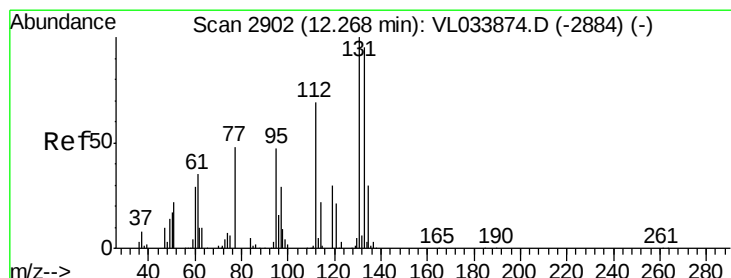
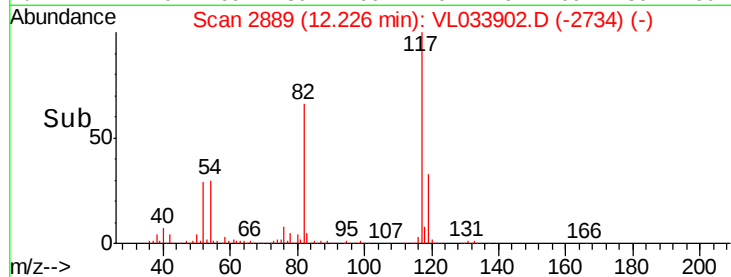
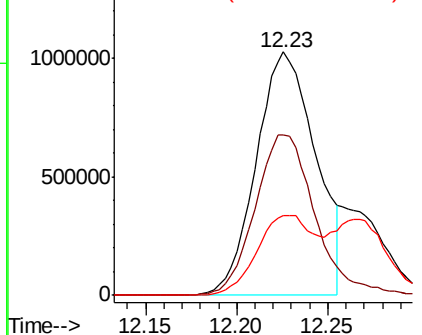
Tot Ion	Ratio	Lower	Upper
117	100		
82	67.5	50.2	75.2
119	30.9	24.8	37.2

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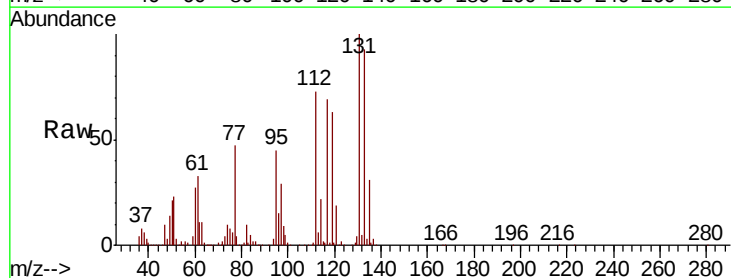


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V

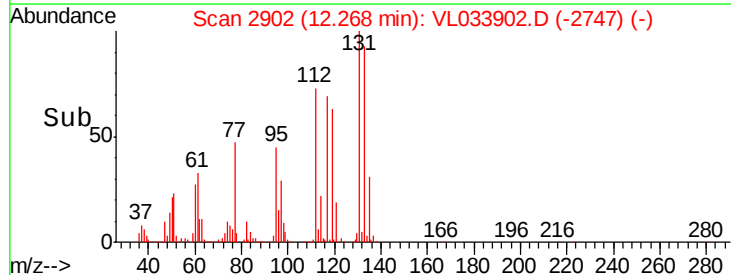
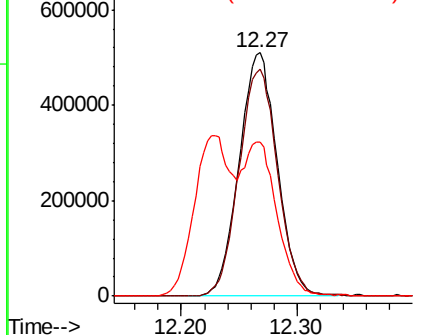


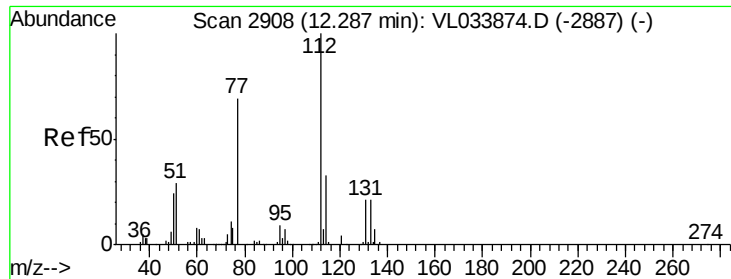
#56
1,1,1,2-Tetrachloroethane
Concen: 11.443 ppbv
RT: 12.27 min Scan# 2902
Delta R.T. -0.00 min
Lab File: VL033902.D
Acq: 13 Jun 2019 18:02

Tgt Ion	Ratio	Lower	Upper
131	100		
133	95.6	76.5	114.7
119	65.6	42.6	64.0#



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





#57

Chlorobenzene

Concen: 11.390 ppbv

RT: 12.29 min Scan# 2908

Delta R.T. -0.00 min

Lab File: VL033902.D

Acq: 13 Jun 2019 18:02

Instrument :

MSVOA_L

ClientSampleId :

VL0613ABS01

Tot Ion:112 Resp: 1983783

Ion Ratio Lower Upper

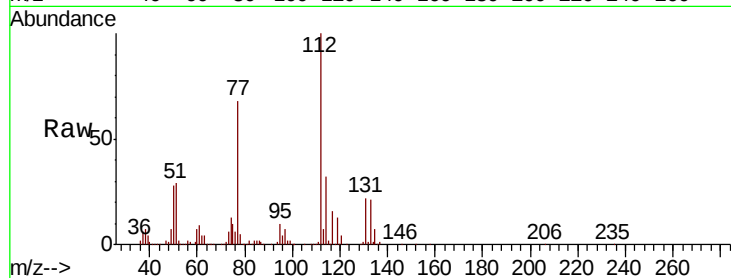
112 100

77 67.5 55.8 83.6

114 31.8 29.8 36.4

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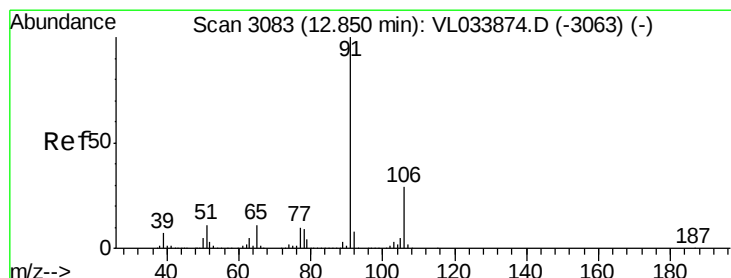
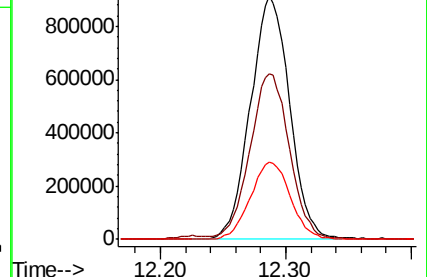
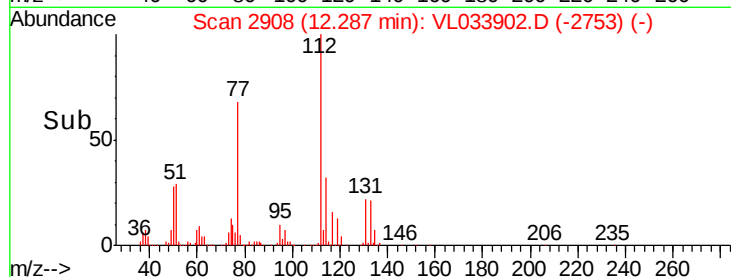
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Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 13.165 ppbv

RT: 12.85 min Scan# 3083

Delta R.T. -0.00 min

Lab File: VL033902.D

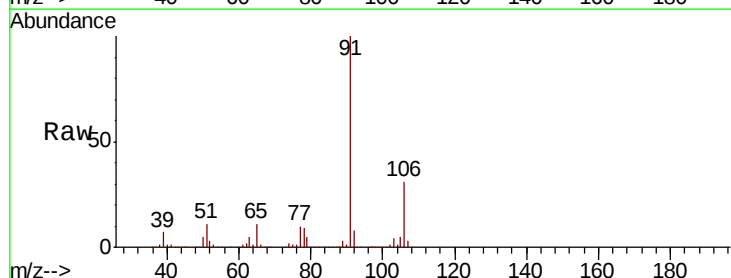
Acq: 13 Jun 2019 18:02

Tgt Ion: 91 Resp: 3451617

Ion Ratio Lower Upper

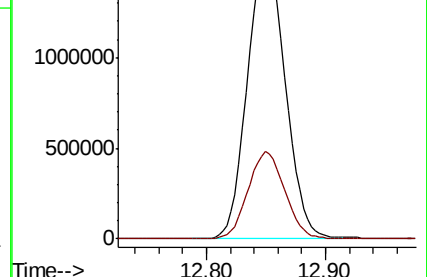
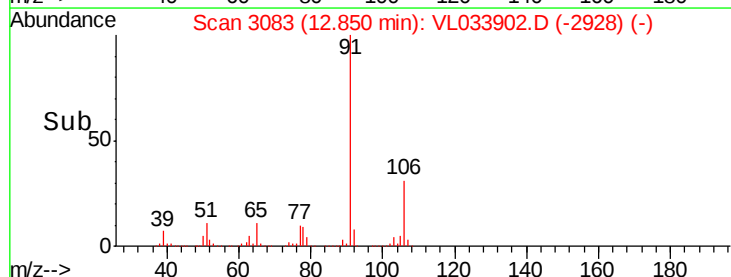
91 100

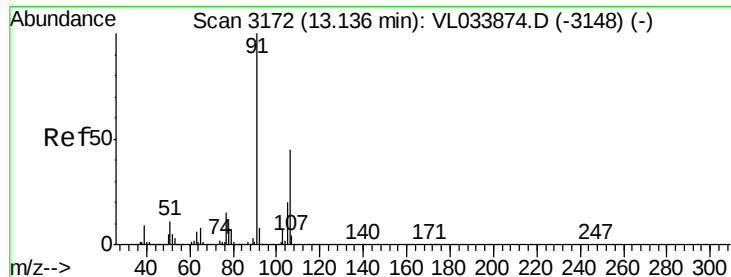
106 30.7 23.0 34.6



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





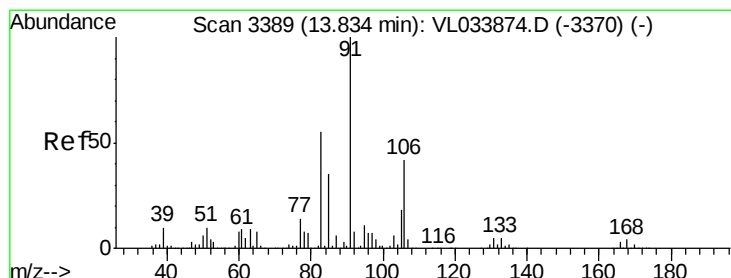
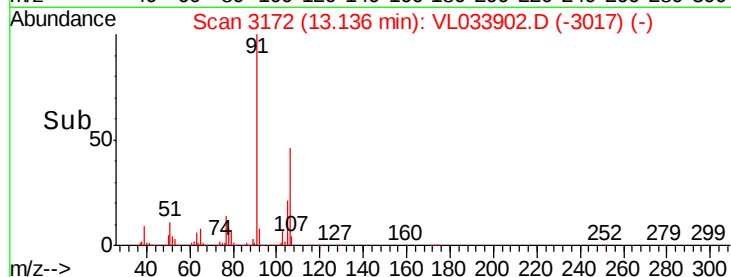
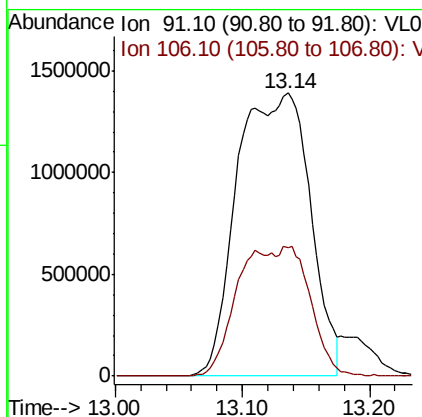
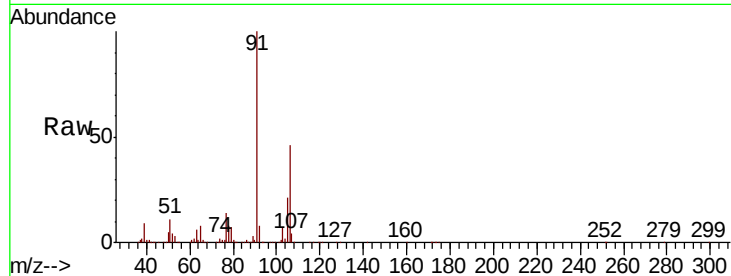
#59
m/p-Xylene
Concen: 23.176 ppbv m
RT: 13.14 min Scan# 3172
Delta R.T. -0.00 min
Lab File: VL033902.D
Acq: 13 Jun 2019 18:02

Instrument :
MSVOA_L
ClientSampleId :
VL0613ABS01

Tot Ion: 91 Resp: 5525762
Ion Ratio Lower Upper
91 100
106 45.4 35.8 53.8

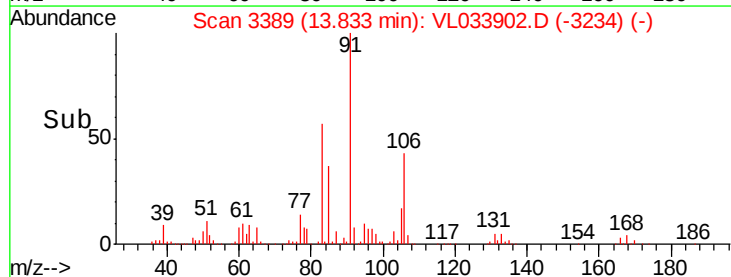
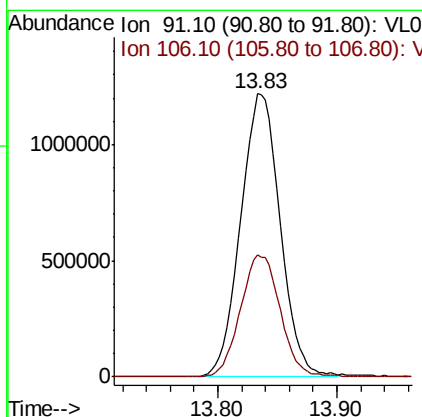
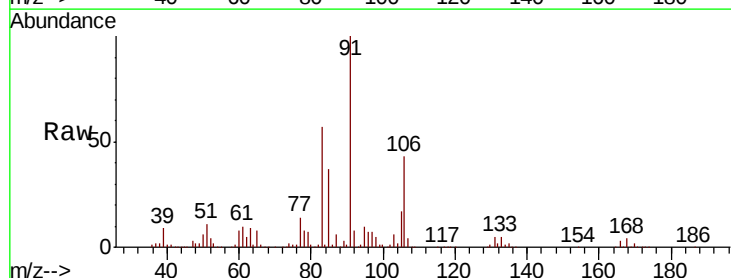
Manual Integrations
APPROVED

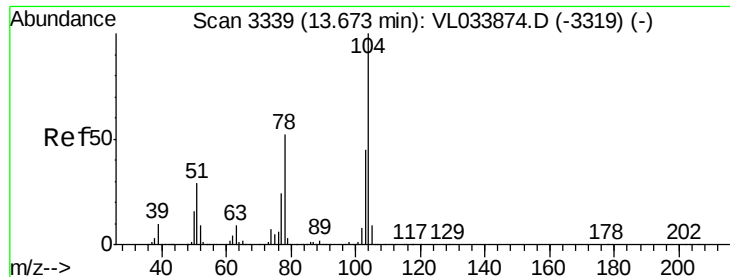
MMDadoda
6/17/2019 12:37:05 AM



#60
o-Xylene
Concen: 11.356 ppbv
RT: 13.83 min Scan# 3389
Delta R.T. -0.00 min
Lab File: VL033902.D
Acq: 13 Jun 2019 18:02

Tgt Ion: 91 Resp: 2795381
Ion Ratio Lower Upper
91 100
106 43.8 21.7 65.1





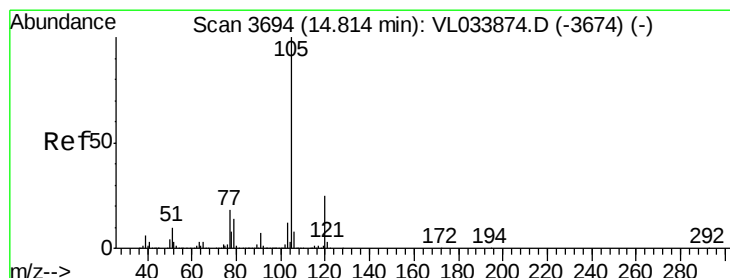
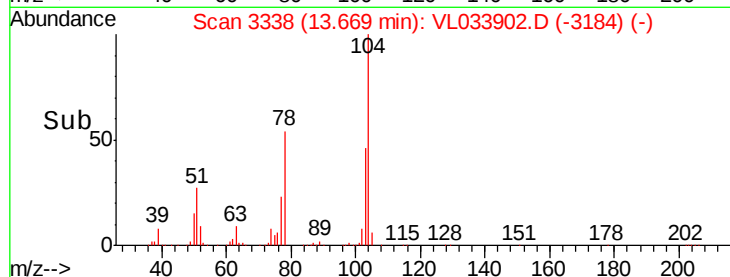
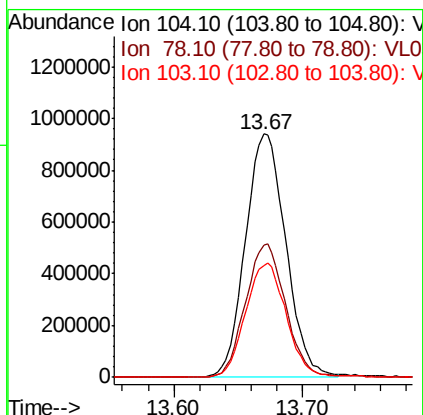
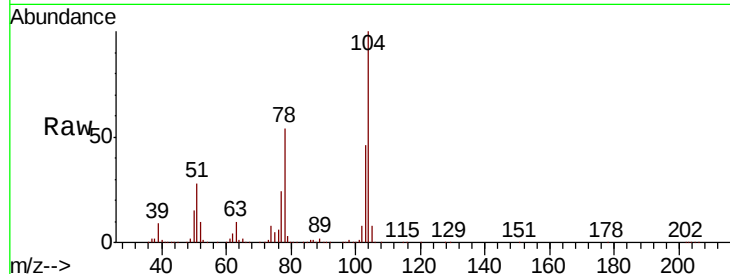
#61
Stvrene
Concen: 12.903 ppbv
RT: 13.67 min Scan# 3338
Delta R.T. -0.00 min
Lab File: VL033902.D
Acq: 13 Jun 2019 18:02

Instrument :
MSVOA_L
ClientSampleId :
VL0613ABS01

Tot Ion	Ratio	Lower	Upper
104	100		
78	54.5	43.4	65.0
103	47.6	37.6	56.4

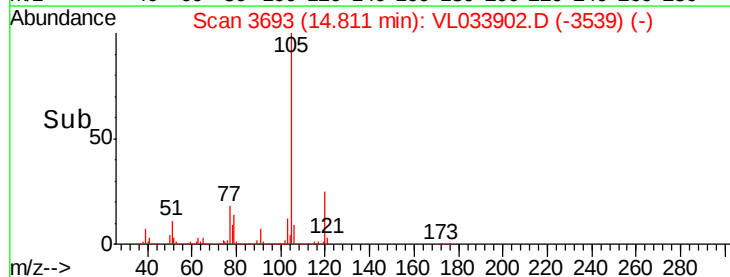
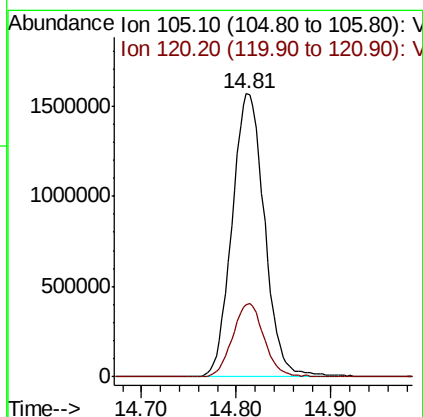
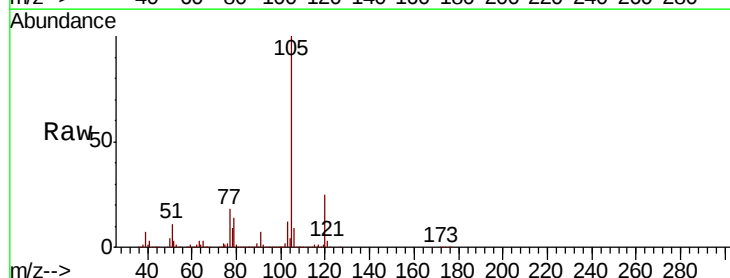
Manual Integrations
APPROVED

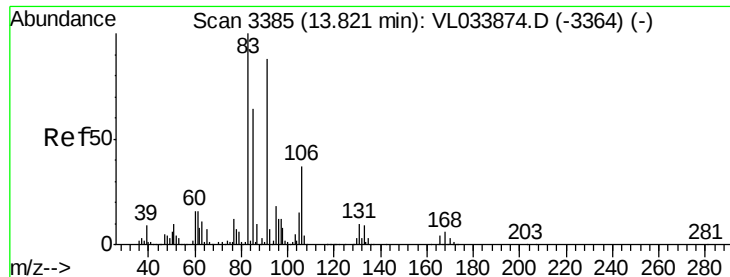
MMDadoda
6/17/2019 12:37:05 AM



#62
Isopropylbenzene
Concen: 11.247 ppbv
RT: 14.81 min Scan# 3693
Delta R.T. -0.00 min
Lab File: VL033902.D
Acq: 13 Jun 2019 18:02

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.4	20.3	30.5





#63

1,1,2,2-Tetrachloroethane

Concen: 10.688 ppbv

RT: 13.82 min Scan# 3386

Delta R.T. 0.00 min

Lab File: VL033902.D

Acq: 13 Jun 2019 18:02

Instrument :

MSVOA_L

ClientSampleId :

VL0613ABS01

Tot Ion: 83 Resp: 1980490

Ion Ratio Lower Upper

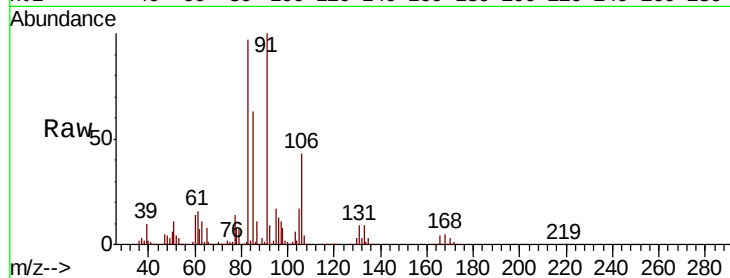
83 100

131 9.7 4.8 14.4

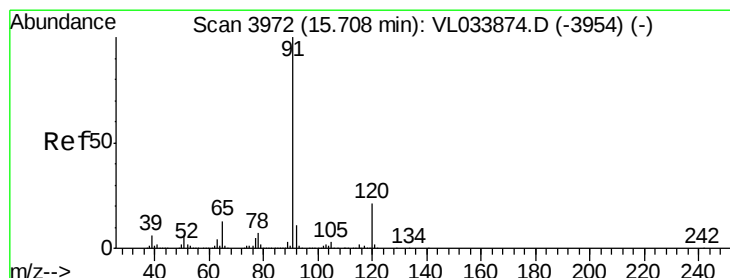
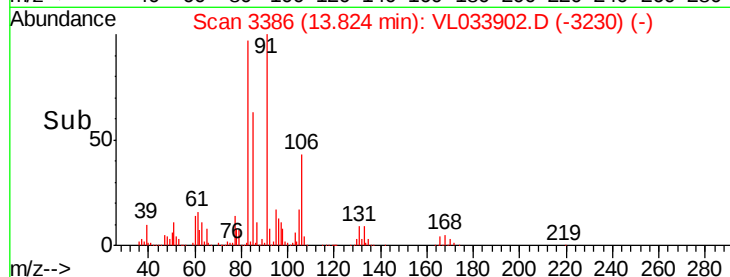
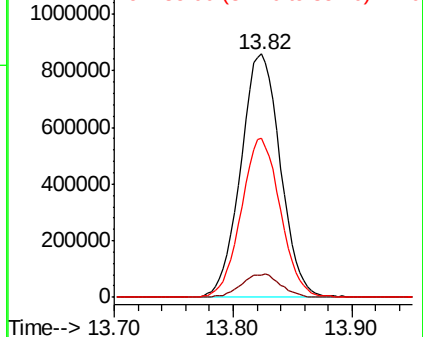
85 64.9 32.1 96.3

Manual Integrations
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MMDadoda
6/17/2019 12:37:05 AM



Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 131.00 (130.70 to 131.70): V
Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 11.437 ppbv

RT: 15.71 min Scan# 3973

Delta R.T. 0.00 min

Lab File: VL033902.D

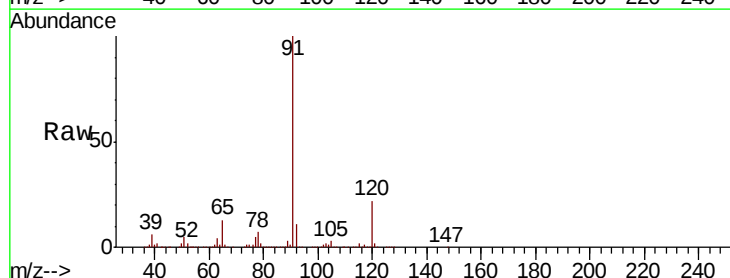
Acq: 13 Jun 2019 18:02

Tgt Ion:120 Resp: 971717

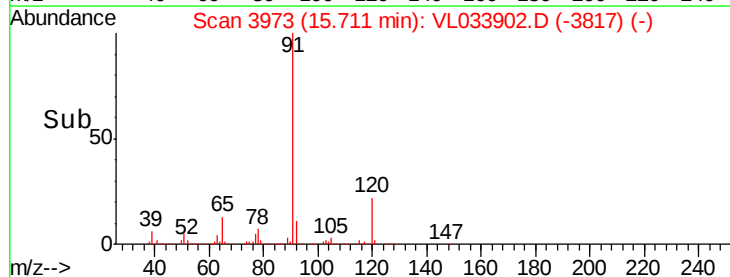
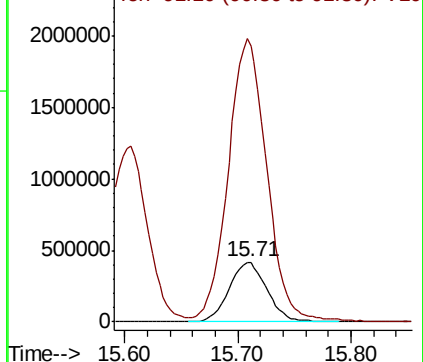
Ion Ratio Lower Upper

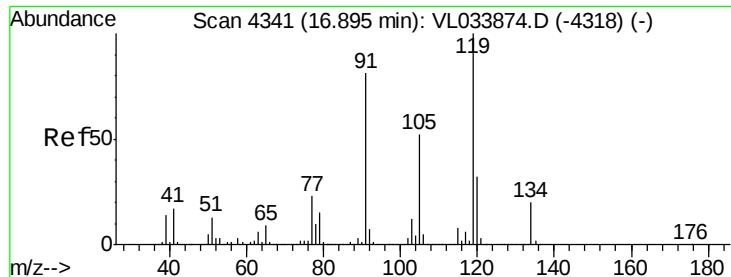
120 100

91 484.4 387.0 580.6



Abundance Ion 120.20 (119.90 to 120.90): V
Ion 91.10 (90.80 to 91.80): VL0





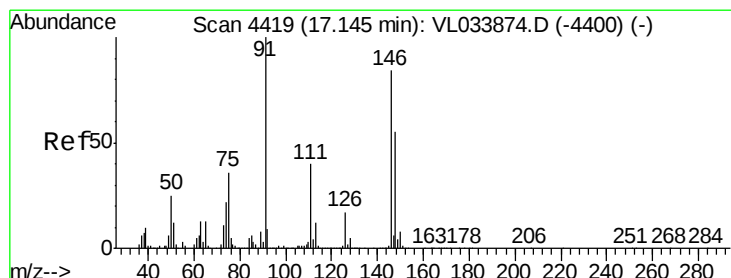
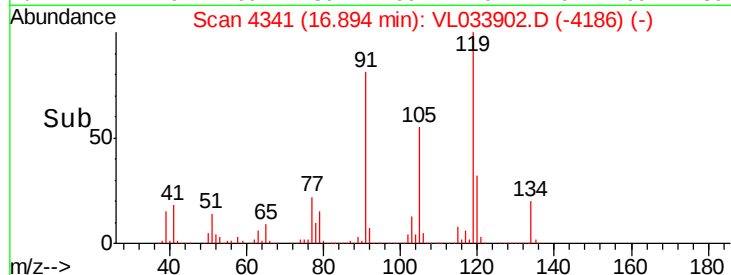
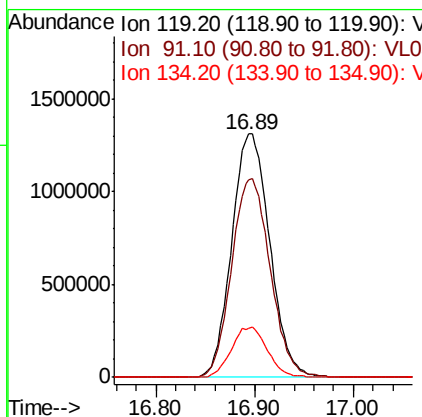
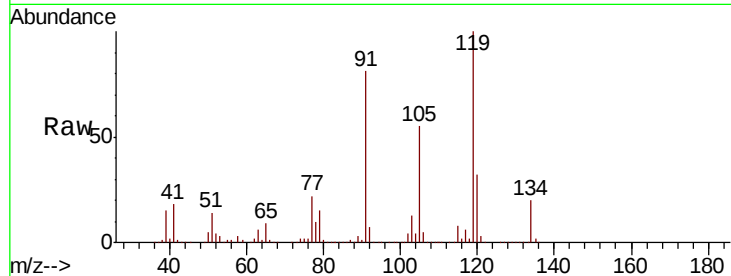
#65
 tert-Butylbenzene
 Concen: 11.466 ppbv
 RT: 16.89 min Scan# 4341
 Delta R.T. -0.00 min
 Lab File: VL033902.D
 Acq: 13 Jun 2019 18:02

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0613ABS01

Tot Ion: 119 Resp: 3520004
 Ion Ratio Lower Upper
 119 100
 91 82.9 66.6 100.0
 134 19.5 15.5 23.3

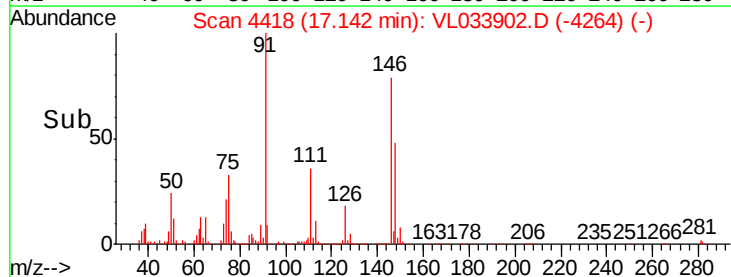
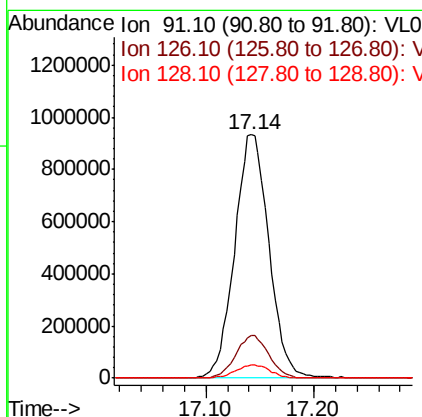
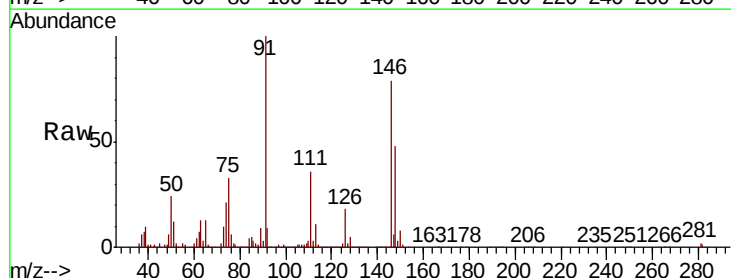
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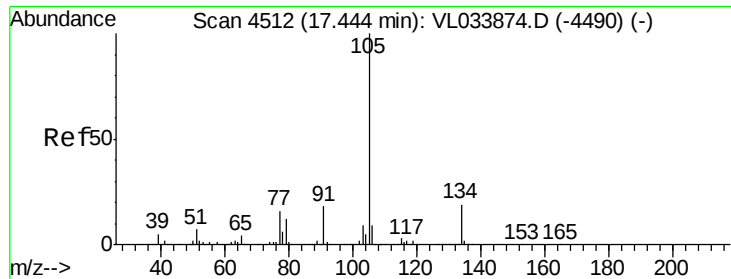
MMDadoda
 6/17/2019 12:37:05 AM



#66
 Benzyl Chloride
 Concen: 13.237 ppbv
 RT: 17.14 min Scan# 4418
 Delta R.T. -0.00 min
 Lab File: VL033902.D
 Acq: 13 Jun 2019 18:02

Tgt Ion: 91 Resp: 2059399
 Ion Ratio Lower Upper
 91 100
 126 17.0 13.8 20.6
 128 5.5 4.4 6.6





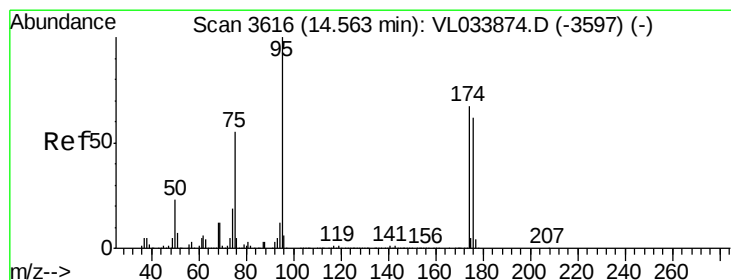
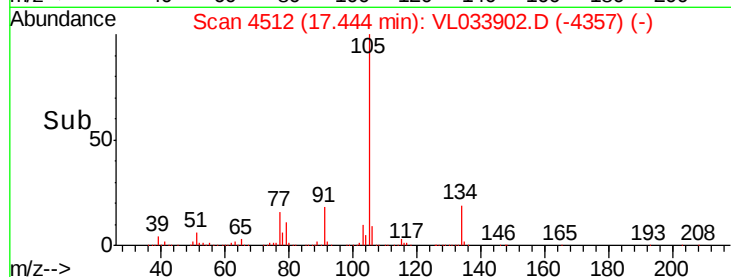
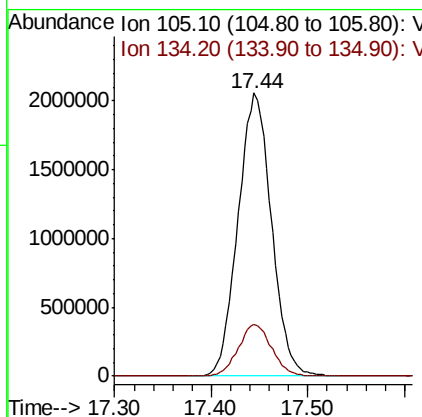
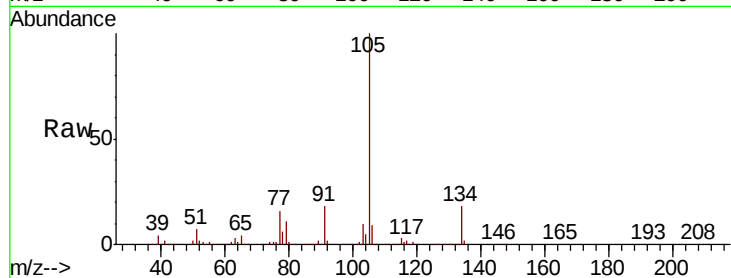
#67
 sec-Butylbenzene
 Concen: 11.480 ppbv
 RT: 17.44 min Scan# 4512
 Delta R.T. -0.00 min
 Lab File: VL033902.D
 Acq: 13 Jun 2019 18:02

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0613ABS01

Tot Ion: 105 Resp: 4944175
 Ion Ratio Lower Upper
 105 100
 134 18.3 14.6 22.0

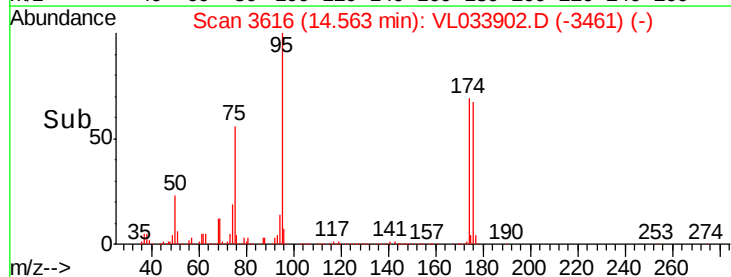
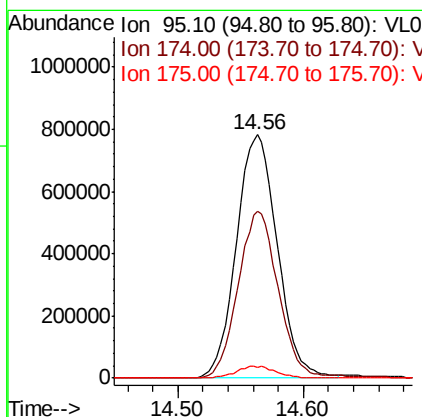
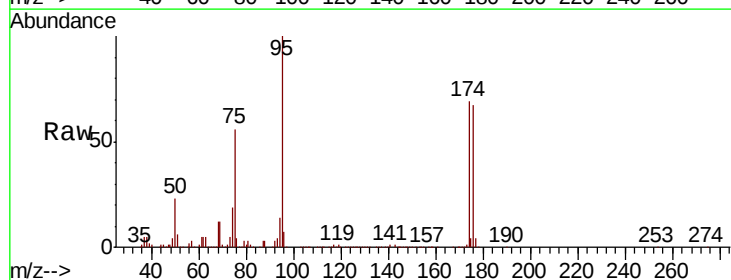
Manual Integrations
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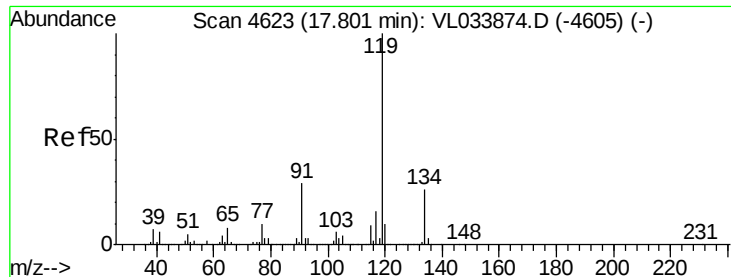
MMDadoda
 6/17/2019 12:37:05 AM



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.263 ppbv
 RT: 14.56 min Scan# 3616
 Delta R.T. -0.00 min
 Lab File: VL033902.D
 Acq: 13 Jun 2019 18:02

Tgt Ion: 95 Resp: 1769380
 Ion Ratio Lower Upper
 95 100
 174 68.4 54.0 81.0
 175 4.8 3.8 5.8





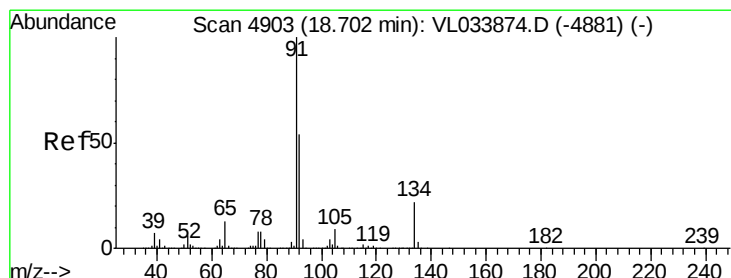
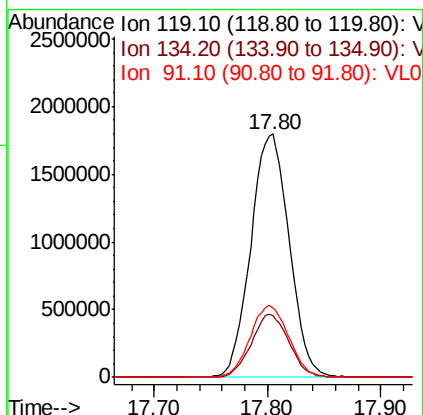
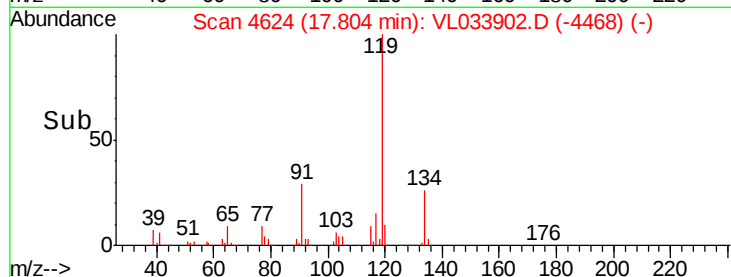
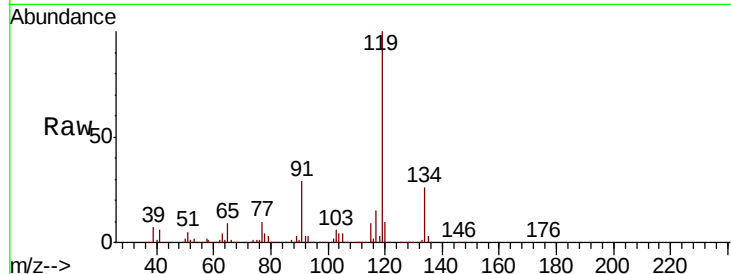
#69
p-Isopropyltoluene
Concen: 11.814 ppbv
RT: 17.80 min Scan# 4624
Delta R.T. 0.00 min
Lab File: VL033902.D
Acq: 13 Jun 2019 18:02

Instrument :
MSVOA_L
ClientSampleId :
VL0613ABS01

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.4	20.3	30.5
91	29.6	23.8	35.6

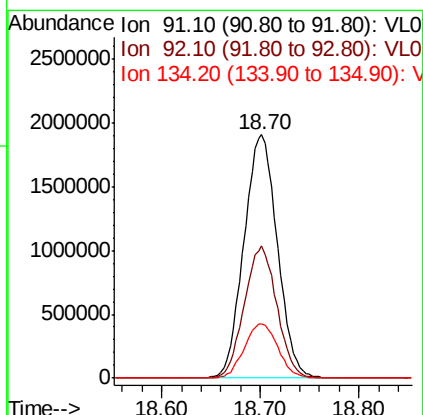
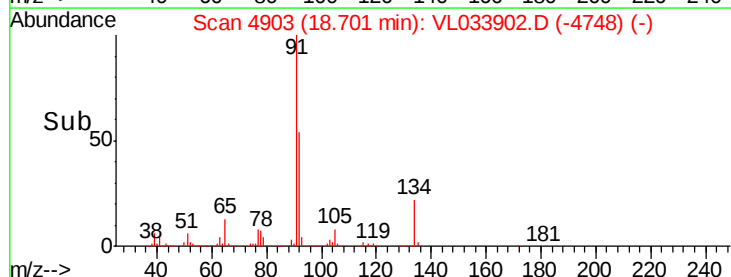
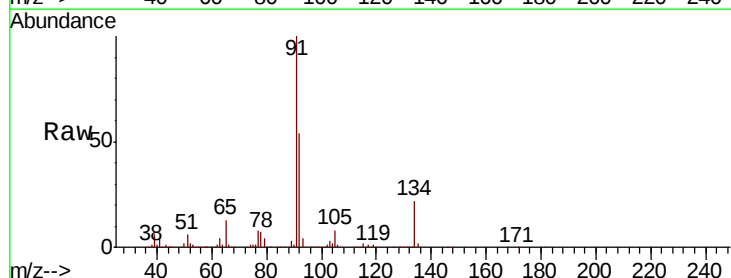
Manual Integrations
APPROVED

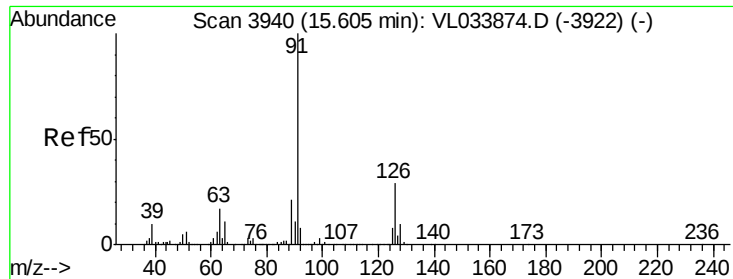
MMDadoda
6/17/2019 12:37:05 AM



#70
n-Butylbenzene
Concen: 11.363 ppbv
RT: 18.70 min Scan# 4903
Delta R.T. -0.00 min
Lab File: VL033902.D
Acq: 13 Jun 2019 18:02

Tgt Ion	Ratio	Lower	Upper
91	100		
92	52.9	42.5	63.7
134	22.4	17.8	26.6





#71

2-Chlorotoluene

Concen: 11.586 ppbv

RT: 15.61 min Scan# 3940

Delta R.T. -0.00 min

Lab File: VL033902.D

Acq: 13 Jun 2019 18:02

Instrument :

MSVOA_L

ClientSampleId :

VL0613ABS01

Tot Ion: 91 Resp: 2832001

Ion Ratio Lower Upper

91 100

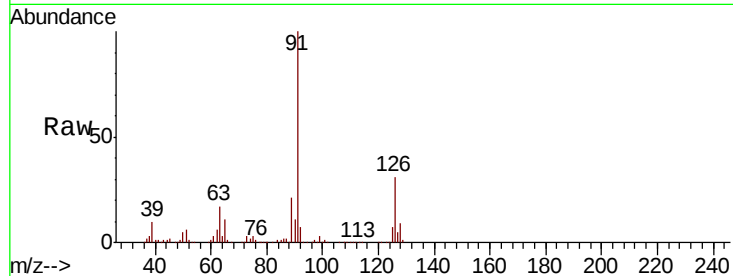
126 30.6 12.0 48.2

Manual Integrations

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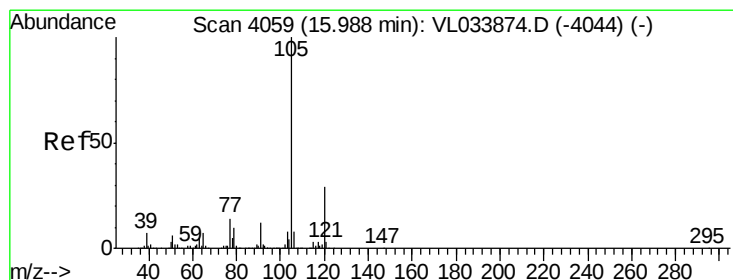
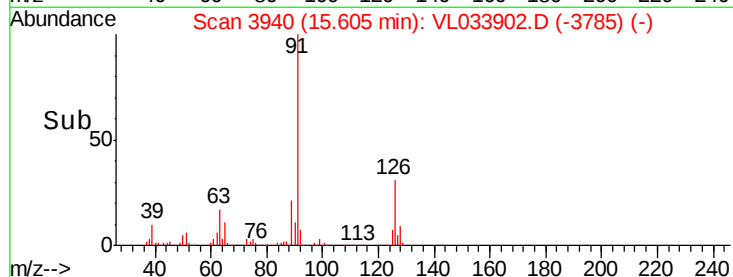
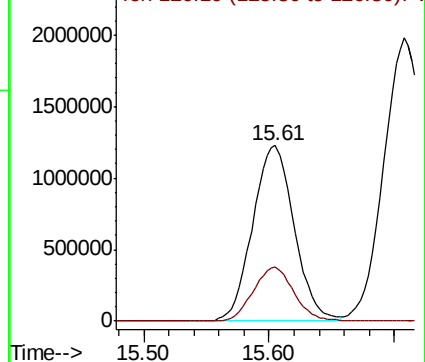
MMDadoda

6/17/2019 12:37:05 AM



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 11.754 ppbv

RT: 15.99 min Scan# 4059

Delta R.T. -0.00 min

Lab File: VL033902.D

Acq: 13 Jun 2019 18:02

Tgt Ion:105 Resp: 3292631

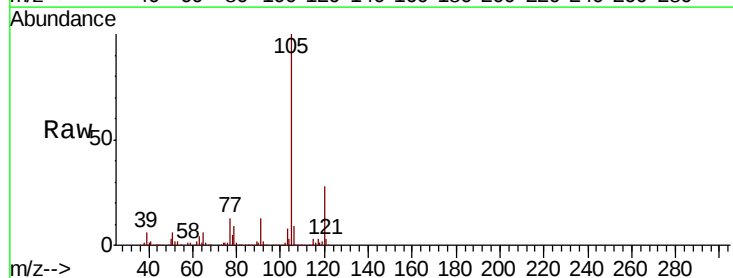
Ion Ratio Lower Upper

105 100

120 29.6 23.5 35.3

91 13.0 10.4 15.6

77 14.4 11.7 17.5

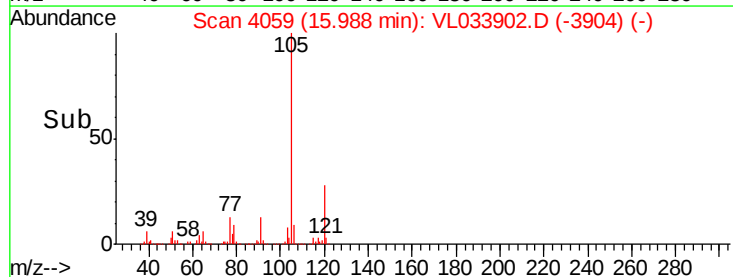
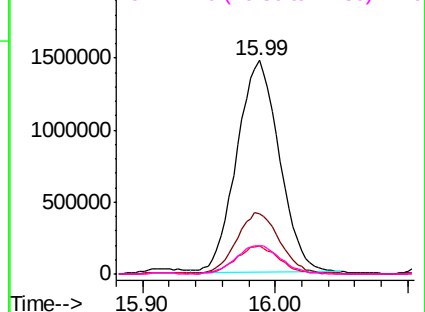


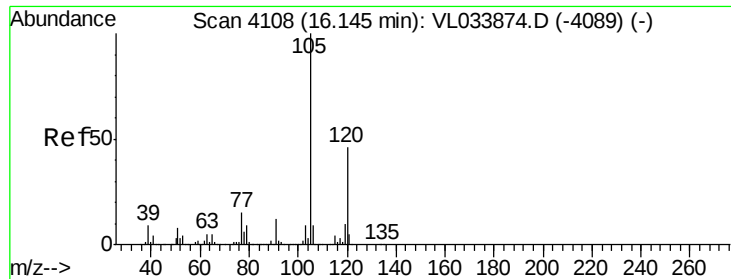
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#73

1,3,5-Trimethylbenzene

Concen: 11.609 ppbv

RT: 16.15 min Scan# 4108

Delta R.T. -0.00 min

Lab File: VL033902.D

Acq: 13 Jun 2019 18:02

Instrument :

MSVOA_L

ClientSampleId :

VL0613ABS01

Tot Ion:105 Resp: 3203259

Ion Ratio Lower Upper

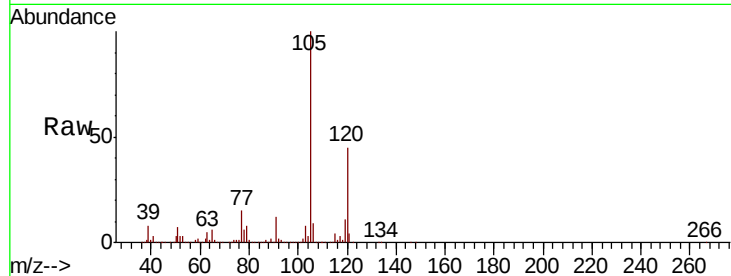
105 100

120 45.5 37.1 55.7

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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

16.15

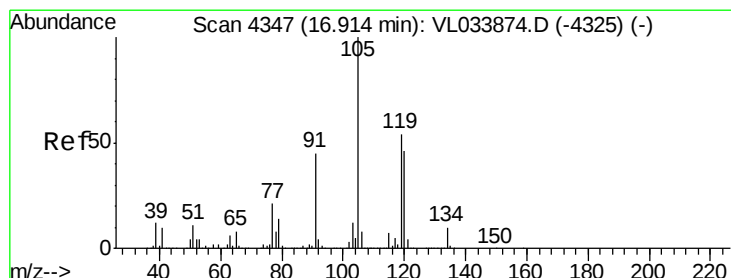
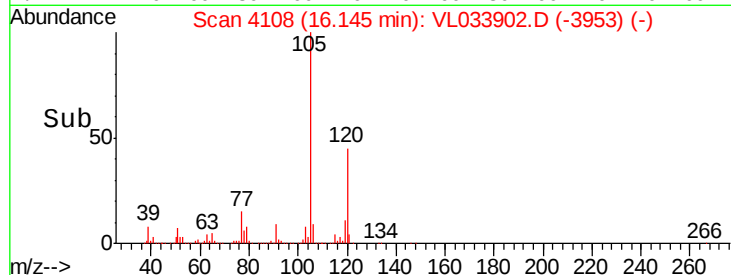
1500000

1000000

500000

0

Time-->



#74

1,2,4-Trimethylbenzene

Concen: 10.916 ppbv

RT: 16.91 min Scan# 4347

Delta R.T. -0.00 min

Lab File: VL033902.D

Acq: 13 Jun 2019 18:02

Tgt Ion:105 Resp: 3471569

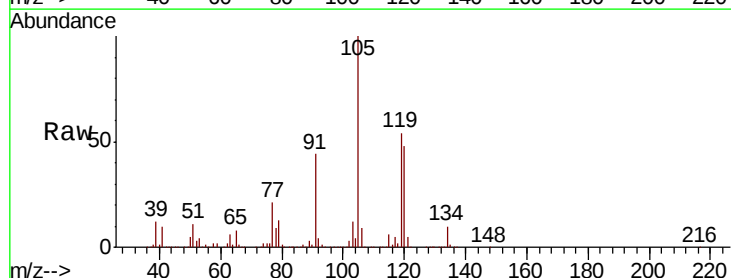
Ion Ratio Lower Upper

105 100

120 47.5 36.7 55.1

91 44.2 35.8 53.8

77 21.3 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): VL0

Ion 77.10 (76.80 to 77.80): VL0

2000000

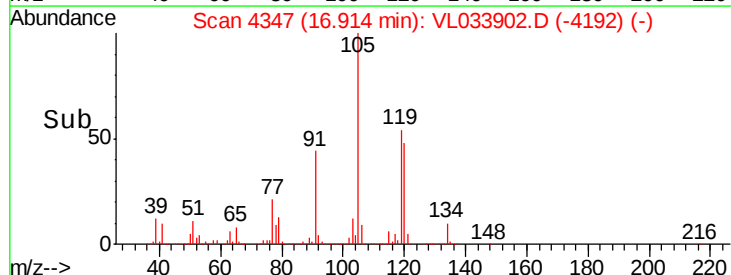
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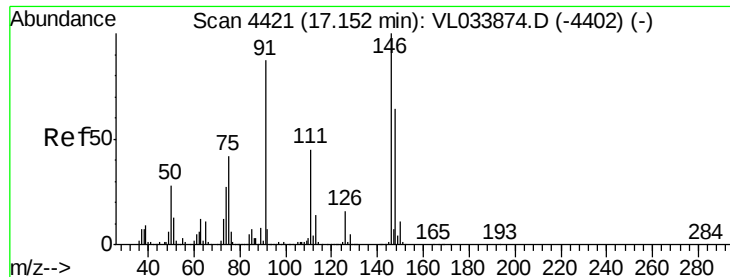
1000000

500000

0

Time-->





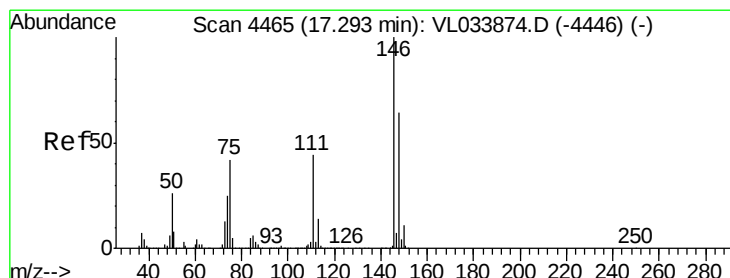
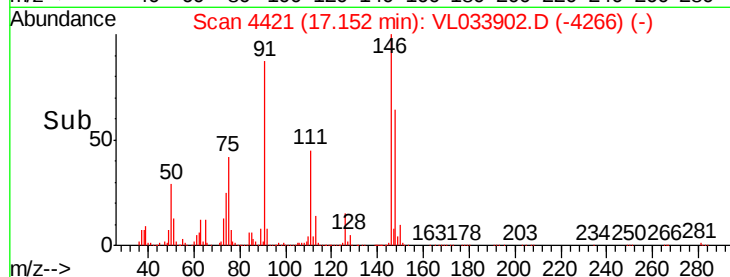
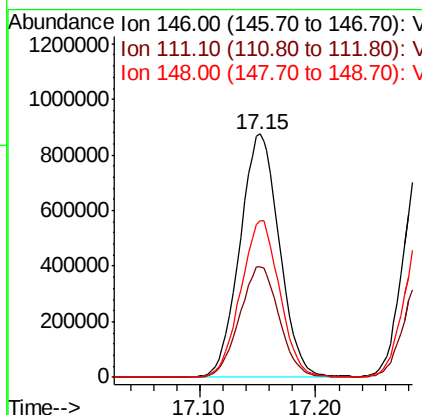
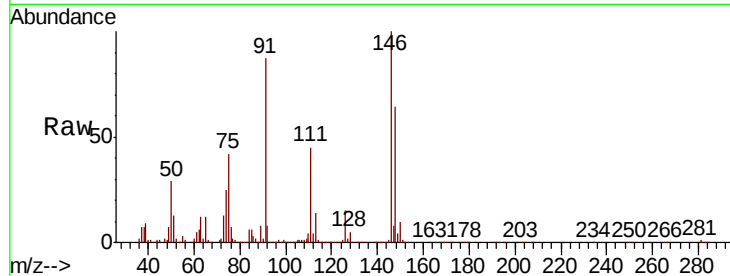
#75
 1,3-Dichlorobenzene
 Concen: 10.402 ppbv
 RT: 17.15 min Scan# 4421
 Delta R.T. -0.00 min
 Lab File: VL033902.D
 Acq: 13 Jun 2019 18:02

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0613ABS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	45.6	22.8	68.3
148	63.9	32.2	96.6

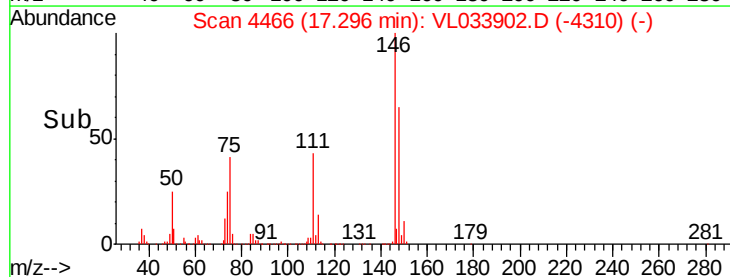
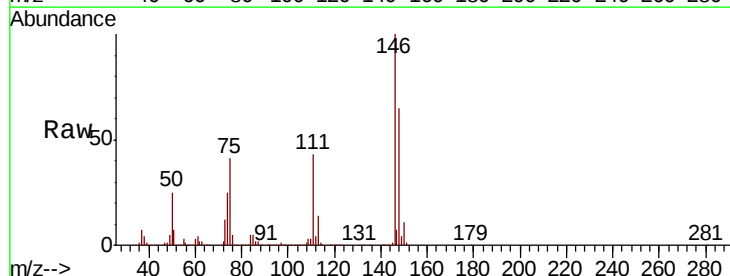
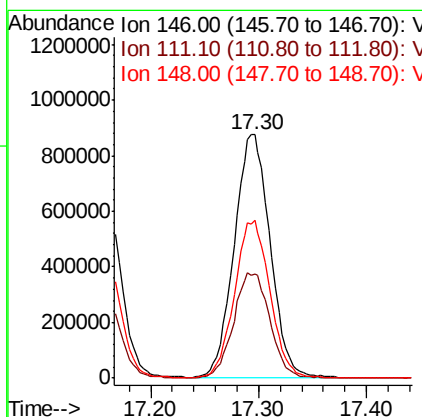
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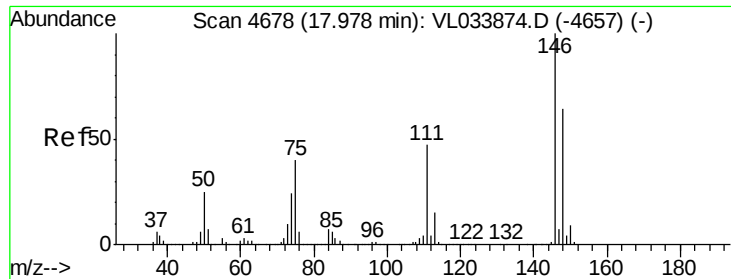
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#76
 1,4-Dichlorobenzene
 Concen: 11.074 ppbv
 RT: 17.30 min Scan# 4466
 Delta R.T. 0.00 min
 Lab File: VL033902.D
 Acq: 13 Jun 2019 18:02

Tgt Ion	Ratio	Lower	Upper
146	100		
111	43.8	22.1	66.5
148	64.2	32.4	97.0





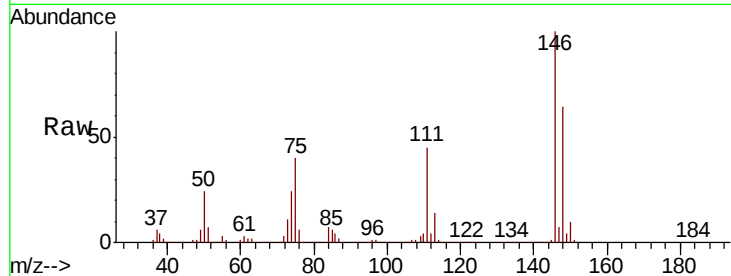
#77
 1,2-Dichlorobenzene
 Concen: 10.891 ppbv
 RT: 17.97 min Scan# 4677
 Delta R.T. -0.00 min
 Lab File: VL033902.D
 Acq: 13 Jun 2019 18:02

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0613ABS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	46.6	23.4	70.0
148	63.9	31.8	95.4

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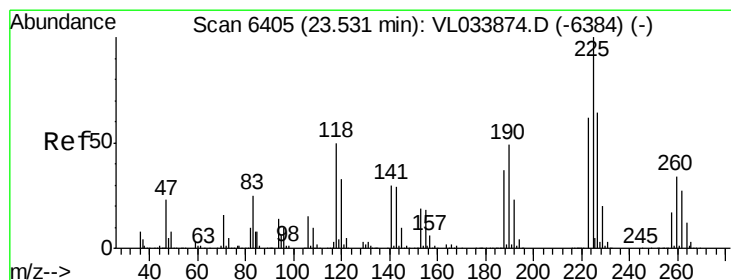
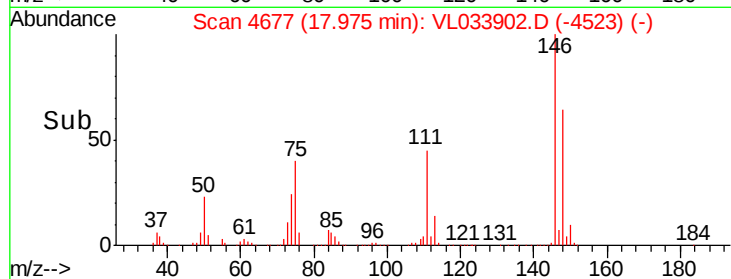
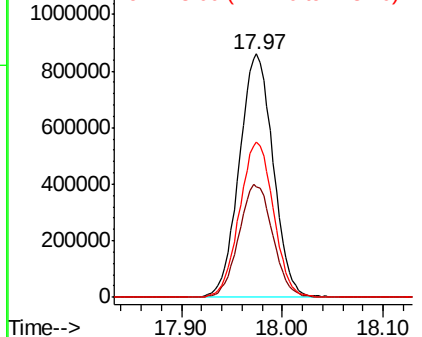


Abundance

Ion 146.00 (145.70 to 146.70): V

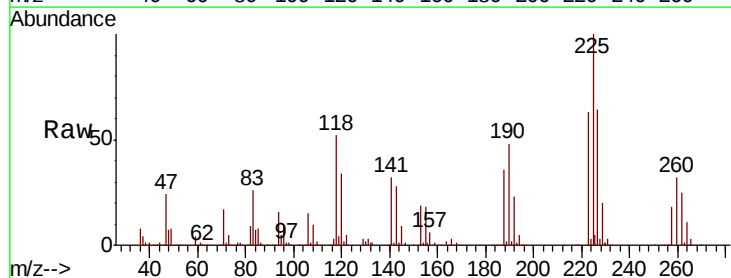
Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#78
 Hexachloro-1,3-Butadiene
 Concen: 9.911 ppbv
 RT: 23.53 min Scan# 6404
 Delta R.T. -0.00 min
 Lab File: VL033902.D
 Acq: 13 Jun 2019 18:02

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.4	50.8	76.2
227	64.3	51.8	77.6

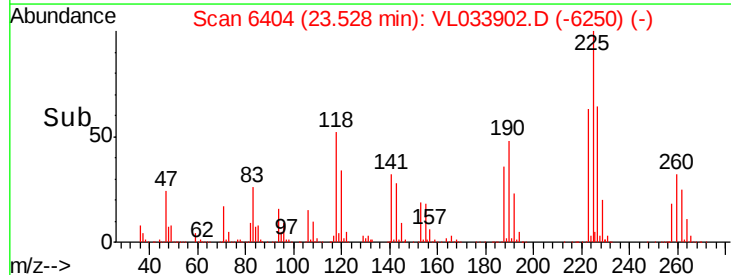
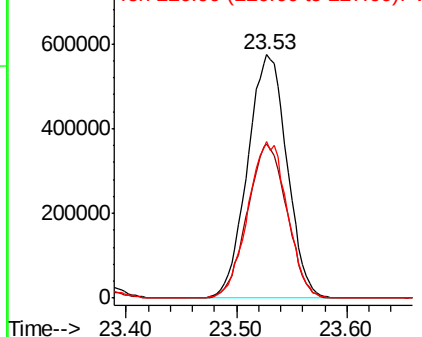


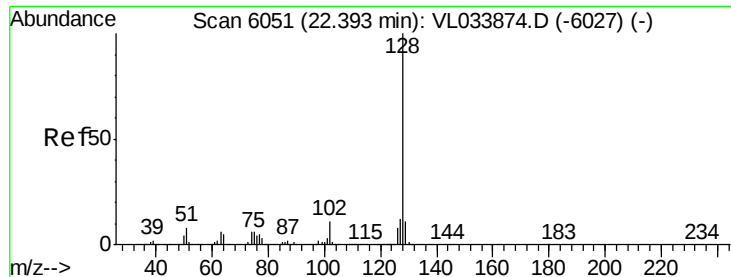
Abundance

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





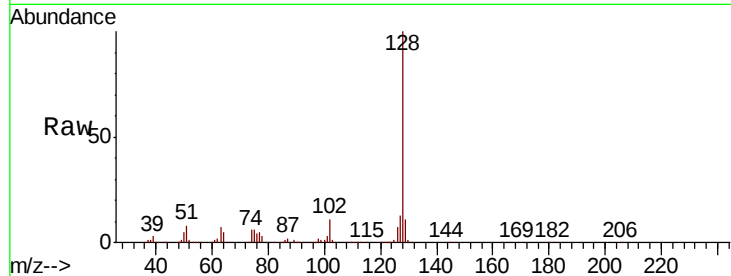
#79
Naphthalene
Concen: 12.723 ppbv
RT: 22.39 min Scan# 6051
Delta R.T. -0.00 min
Lab File: VL033902.D
Acq: 13 Jun 2019 18:02

Instrument :
MSVOA_L
ClientSampleId :
VL0613ABS01

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.2	9.7	14.5
129	10.7	8.6	12.8

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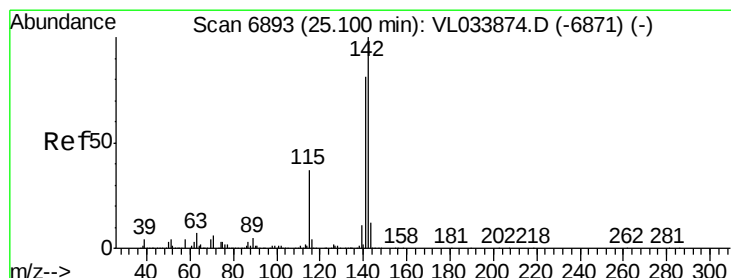
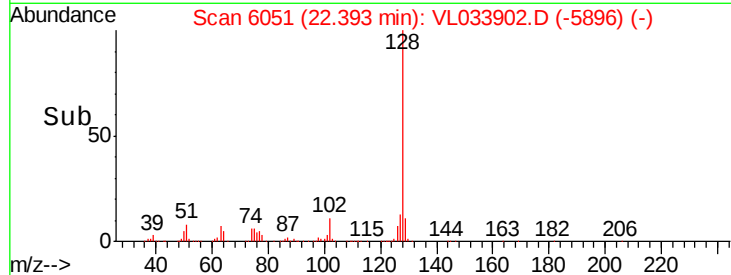
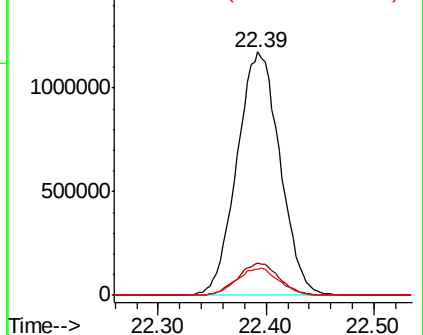


Abundance

Ion 128.10 (127.80 to 128.80): V

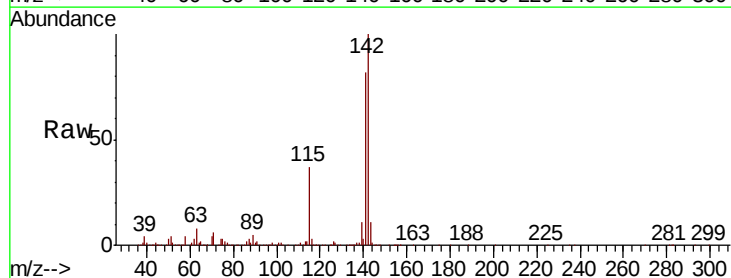
Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V



#80
Naphthalene, 2-methyl-
Concen: 12.393 ppbv
RT: 25.10 min Scan# 6893
Delta R.T. -0.00 min
Lab File: VL033902.D
Acq: 13 Jun 2019 18:02

Tgt Ion	Ratio	Lower	Upper
142	100		
141	82.0	65.7	98.5
115	36.8	28.9	43.3

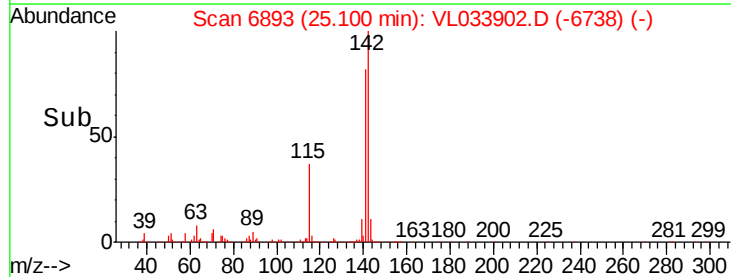
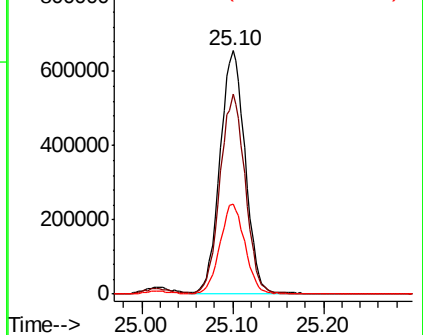


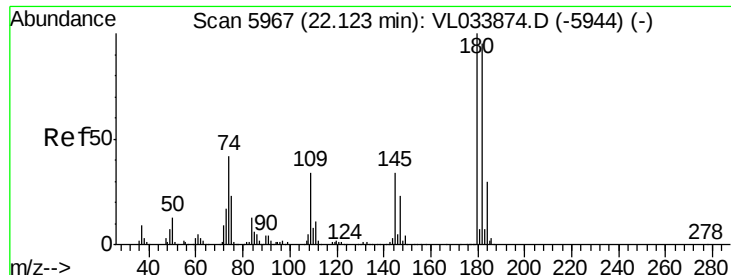
Abundance

Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V





#81
 1,2,4-Trichlorobenzene
 Concen: 12.048 ppbv
 RT: 22.12 min Scan# 5965
 Delta R.T. -0.01 min
 Lab File: VL033902.D
 Acq: 13 Jun 2019 18:02

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0613ABS01

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.6	76.9	115.3
184	31.1	24.5	36.7

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