

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL061319\
 Data File : VL033899.D
 Acq On : 13 Jun 2019 14:32
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

MMDadoda
 6/17/2019 12:37:02 AM

Quant Time: Jun 14 06:11:54 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	998904	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.28	114	2515633	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.23	117	2747645m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.56	95	1975862	8.75	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	87.50%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.07	85	1261512	7.783	ppbv 98
3) Chlorodifluoromethane	3.01	51	1137137	9.670	ppbv 99
4) Chloromethane	3.16	50	661180	9.857	ppbv 100
5) Vinyl Chloride	3.28	62	673065	10.815	ppbv 98
6) Bromomethane	3.51	94	426057	10.304	ppbv 92
7) Chloroethane	3.59	64	257678	10.469	ppbv 97
8) Dichlorotetrafluoroethane	3.21	85	1695161	9.786	ppbv 98
9) Propene	3.03	41	491597	11.172	ppbv 100
10) Heptane	8.23	43	1340852	12.056	ppbv 100
11) Trichlorofluoromethane	3.99	101	2083604	9.962	ppbv 97
12) 1,1,2-Trichlorotrifluoroet	4.54	101	1397211	9.885	ppbv 99
13) Ethanol	3.64	45	126111	8.809	ppbv 100
14) Bromoethene	3.78	108	579048	10.994	ppbv 100
15) Acetone	3.89	43	1293848	8.881	ppbv 99
16) 1,3-Butadiene	3.35	39	572395	10.323	ppbv 97
17) tert-Butyl alcohol	4.35	59	1377149	12.092	ppbv 100
18) 1,1-Dichloroethene	4.34	96	631887	10.584	ppbv 97
19) Isopropyl Alcohol	4.01	45	1039791	12.494	ppbv 99
20) Methylene Chloride	4.40	84	519052	9.136	ppbv 97
21) Allyl Chloride	4.47	41	910571	11.003	ppbv 99
22) trans-1,2-Dichloroethene	4.95	96	653134	10.378	ppbv 98
23) Vinyl Acetate	5.14	43	1896037	11.197	ppbv 99
24) 1,1-Dichloroethane	5.08	63	1351591	10.262	ppbv 99
25) Ethyl Acetate	5.76	43	2285060	10.299	ppbv 99
26) Hexane	5.77	57	1000054	9.900	ppbv 100
27) Carbon Disulfide	4.61	76	1594271	11.360	ppbv 99
28) Methyl tert-Butyl Ether	5.10	73	1806045	11.823	ppbv 100
29) Chloroform	5.84	83	1741644	10.067	ppbv 98
30) Cyclohexane	7.23	84	900873	12.622	ppbv 99
31) cis-1,2-Dichloroethene	5.63	61	1056791	11.930	ppbv 98
32) 1,1,1-Trichloroethane	6.61	97	1820932	10.911	ppbv 100
34) 2-Butanone	5.32	43	1483777	10.455	ppbv 99
35) Carbon Tetrachloride	7.12	117	2079683	10.700	ppbv 99
36) Benzene	6.99	78	2230515	11.607	ppbv 100
37) 1,2-Dichloroethane	6.40	62	1350733	9.504	ppbv 99
38) Trichloroethene	7.95	130	937893	12.535	ppbv 97
39) 1,2-Dichloropropane	7.72	63	834299	11.249	ppbv 93
40) 1,4-Dioxane	7.94	88	384222	12.702	ppbv 90
41) Tetrahydrofuran	6.14	42	838911	11.646	ppbv 99
42) Bromodichloromethane	7.91	83	2088116	10.995	ppbv 98
43) Methyl Methacrylate	8.12	69	895677	12.462	ppbv 100

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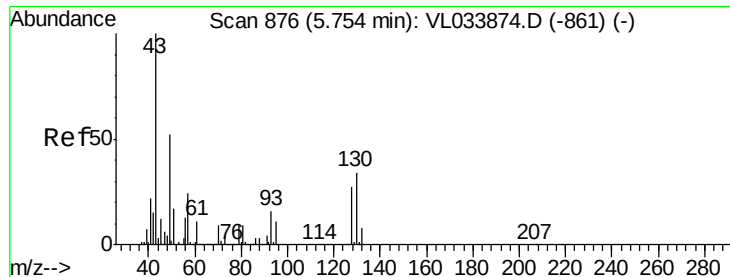
Manual Integrations
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 6/17/2019 12:37:02 AM

Quant Time: Jun 14 06:11:54 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	3752452	10.981	ppbv	99
45) t-1,3-Dichloropropene	9.40	75	1183449	12.549	ppbv	99
46) cis-1,3-Dichloropropene	8.82	75	1319568	12.213	ppbv	99
47) 1,1,2-Trichloroethane	9.60	97	887732	10.040	ppbv	99
48) Dibromochloromethane	10.44	129	1690991	10.642	ppbv	100
49) Bromoform	13.19	173	1533841	10.935	ppbv	99
50) 4-Methyl-2-Pentanone	8.85	43	2253330	10.648	ppbv	100
51) 2-Hexanone	10.25	43	1834441	11.101	ppbv	99
52) Tetrachloroethene	11.36	164	810818	11.991	ppbv	98
53) Toluene	9.93	91	2464588	11.590	ppbv	99
54) 1,2-Dibromoethane	10.74	107	1405076	10.542	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.26	131	1162047	9.681	ppbv	98
57) Chlorobenzene	12.29	112	2006139	9.749	ppbv	97
58) Ethyl Benzene	12.85	91	3339003	10.779	ppbv	98
59) m/p-Xylene	13.14	91	5626483m	19.973	ppbv	
60) o-Xylene	13.84	91	2854475	9.814	ppbv	99
61) Styrene	13.67	104	2156408	11.457	ppbv	99
62) Isopropylbenzene	14.81	105	3937686	10.045	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.82	83	2037192	9.305	ppbv	99
64) n-propylbenzene	15.71	120	1012861	10.089	ppbv	98
65) tert-Butylbenzene	16.89	119	3604464	9.937	ppbv	100
66) Benzyl Chloride	17.14	91	2076038	11.294	ppbv	100
67) sec-Butylbenzene	17.44	105	5055114	9.934	ppbv	100
69) p-Isopropyltoluene	17.80	119	4316415	10.195	ppbv	100
70) n-Butylbenzene	18.70	91	4540256	9.791	ppbv	99
71) 2-Chlorotoluene	15.60	91	3054458	10.576	ppbv	100
72) 4-Ethyltoluene	15.98	105	3431722	10.368	ppbv	100
73) 1,3,5-Trimethylbenzene	16.15	105	3261791	10.005	ppbv	98
74) 1,2,4-Trimethylbenzene	16.91	105	3547299	9.440	ppbv	98
75) 1,3-Dichlorobenzene	17.15	146	2095985	8.907	ppbv	99
76) 1,4-Dichlorobenzene	17.29	146	2081275	9.632	ppbv	100
77) 1,2-Dichlorobenzene	17.97	146	2023787	9.319	ppbv	99
78) Hexachloro-1,3-Butadiene	23.53	225	1349677	7.957	ppbv	99
79) Naphthalene	22.39	128	3123444	10.399	ppbv	99
80) Naphthalene, 2-methyl-	25.10	142	1182299	9.866	ppbv	99
81) 1,2,4-Trichlorobenzene	22.12	180	1848653	9.749	ppbv	99

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



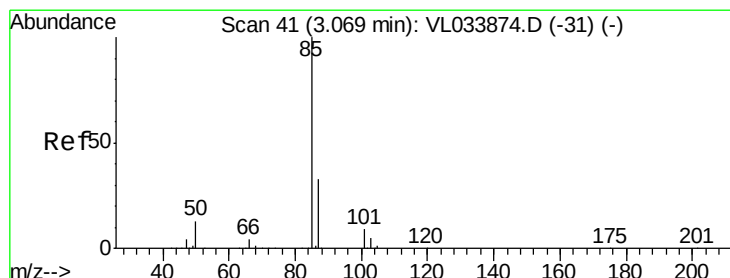
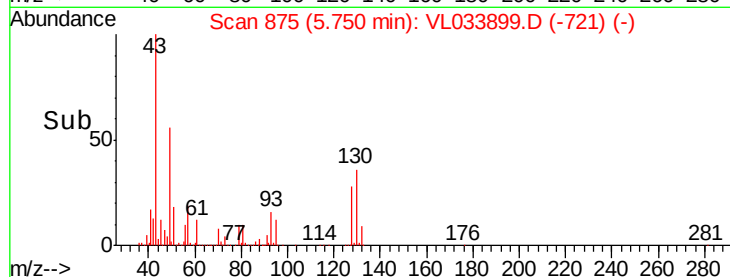
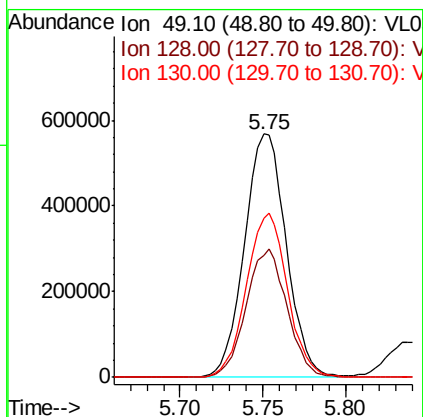
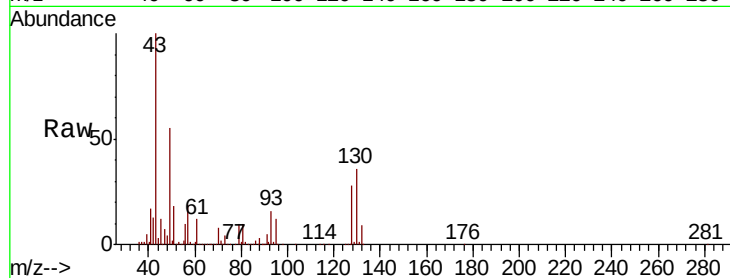
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.75 min Scan# 875
Delta R.T. -0.00 min
Lab File: VL033899.D
Acq: 13 Jun 2019 14:32

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
49	100		
128	51.9	25.5	76.5
130	66.4	32.5	97.4

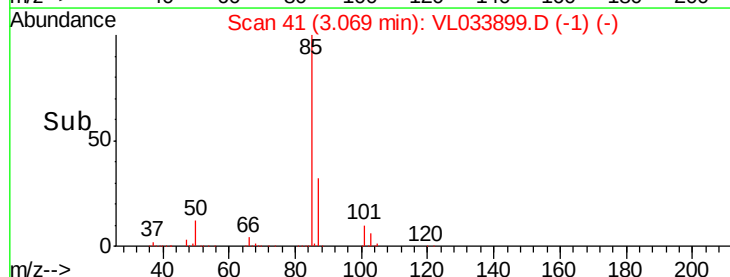
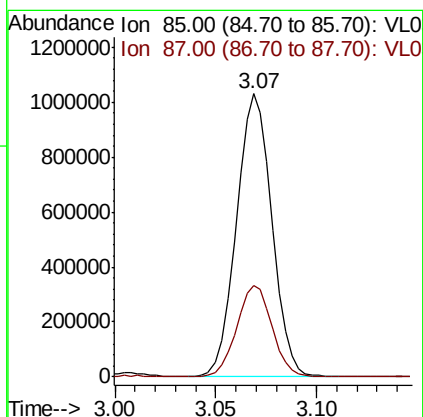
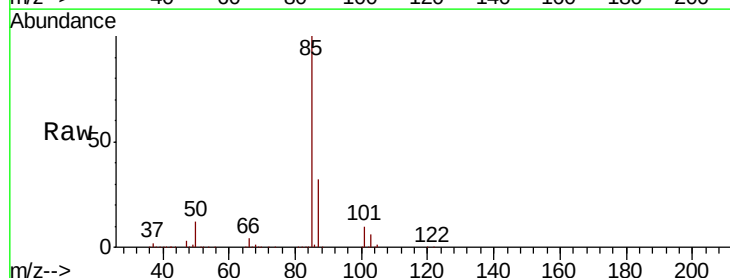
Manual Integrations
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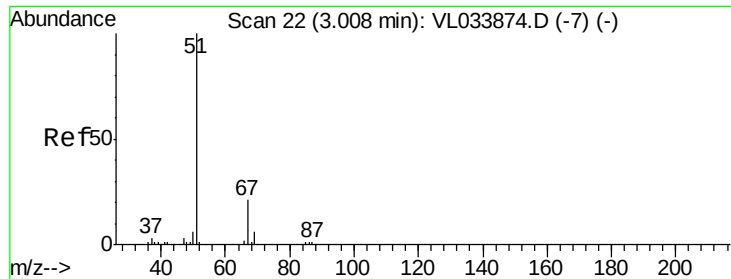
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#2
Dichlorodifluoromethane
Concen: 7.783 ppbv
RT: 3.07 min Scan# 41
Delta R.T. -0.00 min
Lab File: VL033899.D
Acq: 13 Jun 2019 14:32

Tgt Ion	Ratio	Lower	Upper
85	100		
87	32.4	26.6	40.0





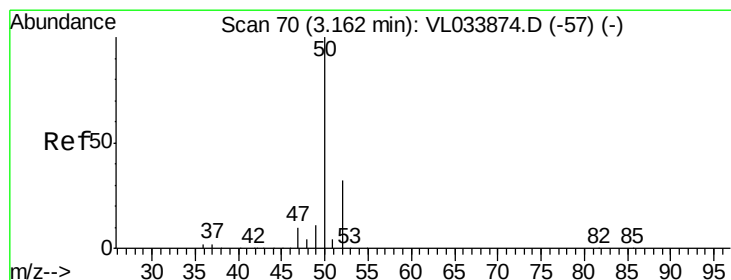
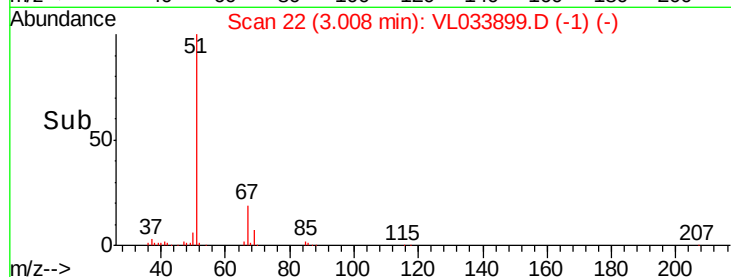
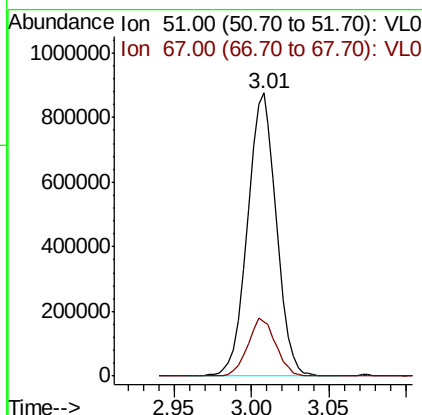
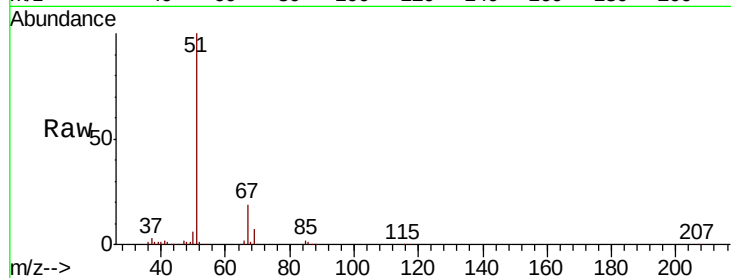
#3
 Chlorodifluoromethane
 Concen: 9.670 ppbv
 RT: 3.01 min Scan# 22
 Delta R.T. -0.00 min
 Lab File: VL033899.D
 Acq: 13 Jun 2019 14:32

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion: 51 Resp: 1137137
 Ion Ratio Lower Upper
 51 100
 67 19.8 16.4 24.6

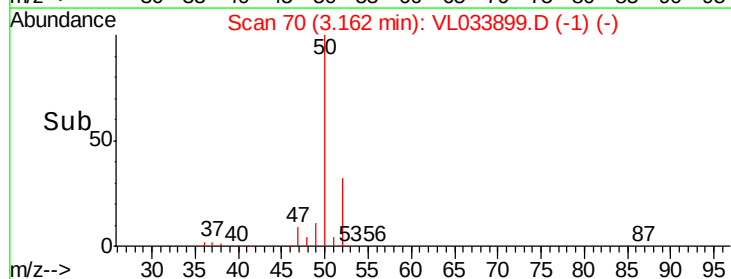
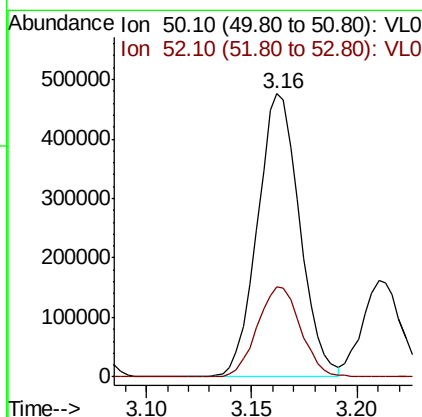
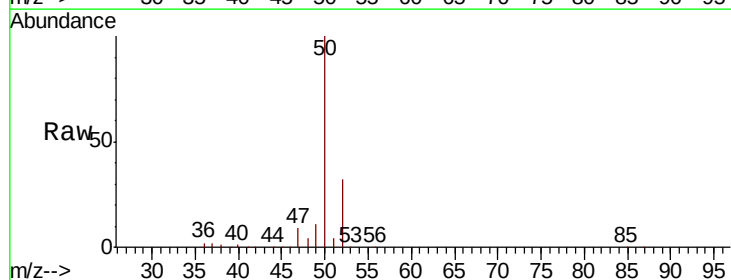
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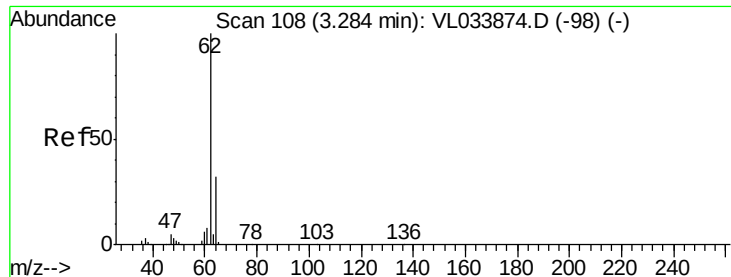
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 6/17/2019 12:37:02 AM



#4
 Chloromethane
 Concen: 9.857 ppbv
 RT: 3.16 min Scan# 70
 Delta R.T. -0.00 min
 Lab File: VL033899.D
 Acq: 13 Jun 2019 14:32

Tgt Ion: 50 Resp: 661180
 Ion Ratio Lower Upper
 50 100
 52 31.8 25.4 38.0





#5

Vinyl Chloride

Concen: 10.815 ppbv

RT: 3.28 min Scan# 108

Delta R.T. -0.00 min

Lab File: VL033899.D

Acq: 13 Jun 2019 14:32

Instrument :

MSVOA_L

ClientSampled :

VSTDCCC010

Tot Ion: 62 Resp: 673065

Ion Ratio Lower Upper

62 100

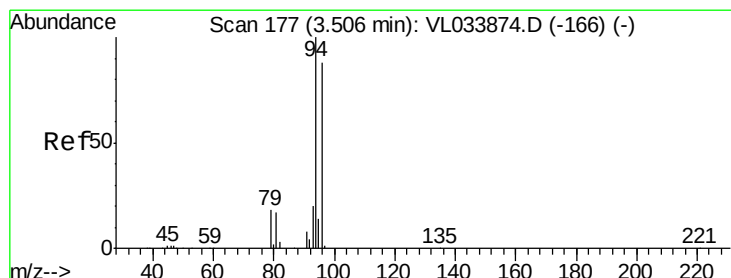
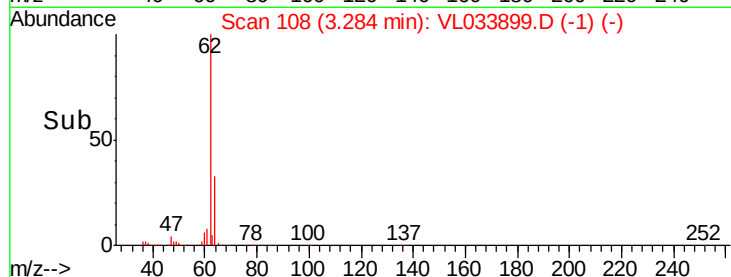
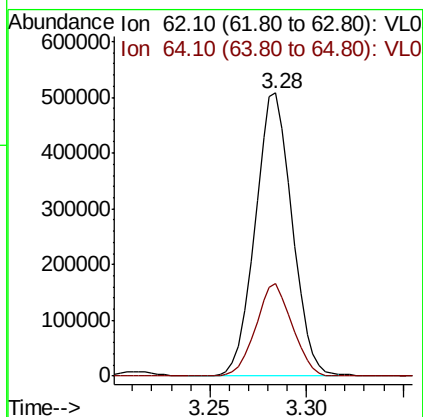
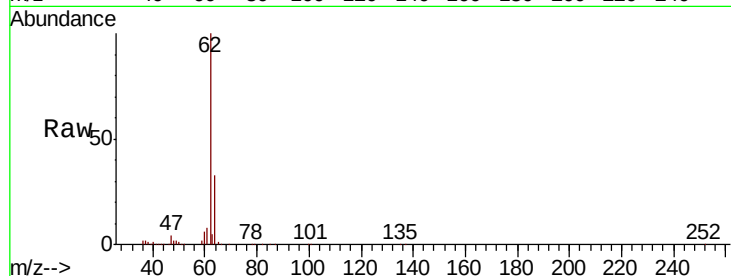
64 32.8 25.2 37.8

Manual Integrations

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#6

Bromomethane

Concen: 10.304 ppbv

RT: 3.51 min Scan# 177

Delta R.T. -0.00 min

Lab File: VL033899.D

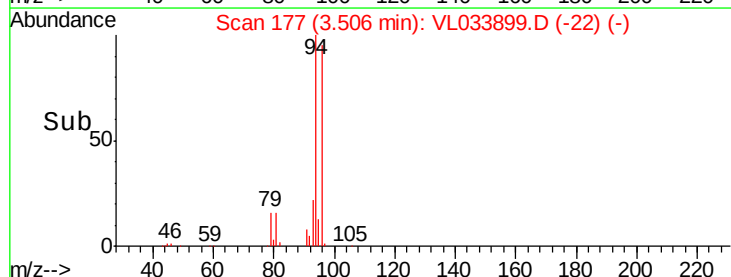
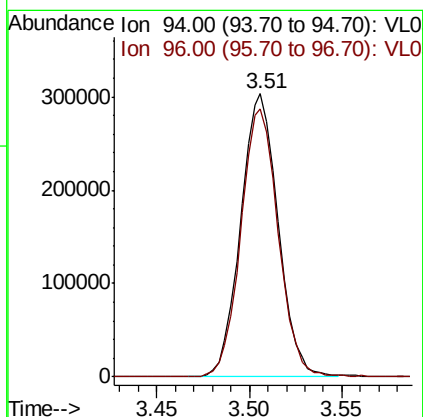
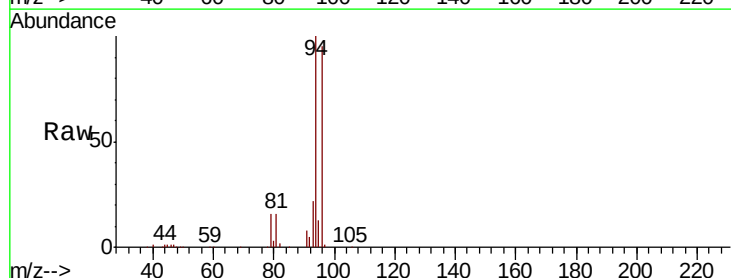
Acq: 13 Jun 2019 14:32

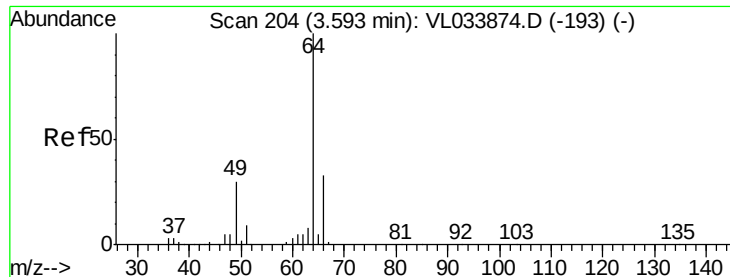
Tgt Ion: 94 Resp: 426057

Ion Ratio Lower Upper

94 100

96 94.7 70.2 105.2





#7

Chloroethane

Concen: 10.469 ppbv

RT: 3.59 min Scan# 203

Delta R.T. -0.00 min

Lab File: VL033899.D

Acq: 13 Jun 2019 14:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 64 Resp: 257678

Ion Ratio Lower Upper

64 100

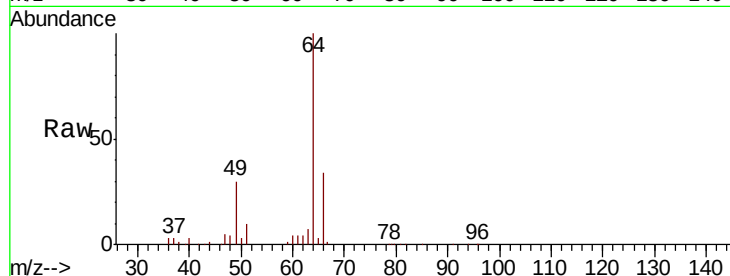
66 35.4 26.7 40.1

Manual Integrations

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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0

3.59

200000

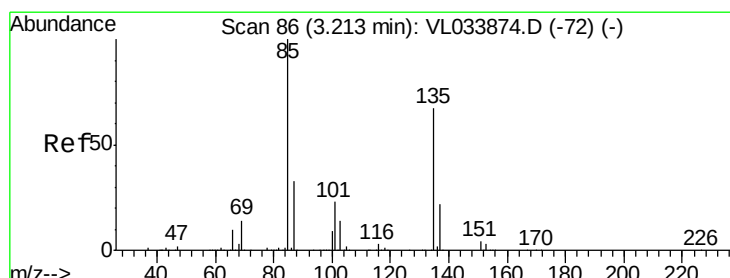
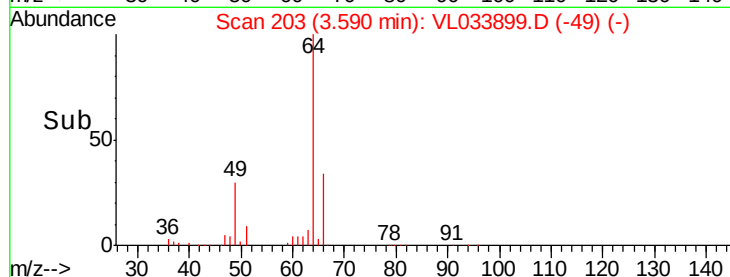
150000

100000

50000

0

Time-->



#8

Dichlorotetrafluoroethane

Concen: 9.786 ppbv

RT: 3.21 min Scan# 86

Delta R.T. -0.00 min

Lab File: VL033899.D

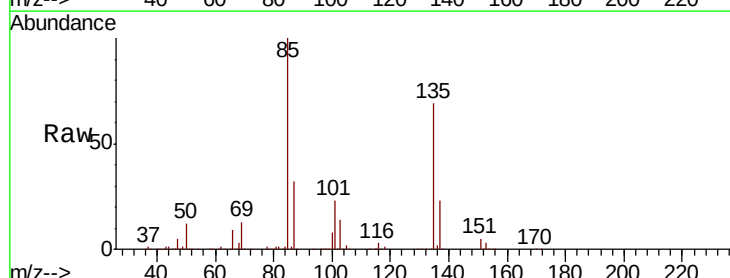
Acq: 13 Jun 2019 14:32

Tgt Ion: 85 Resp: 1695161

Ion Ratio Lower Upper

85 100

135 69.0 53.7 80.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

3.21

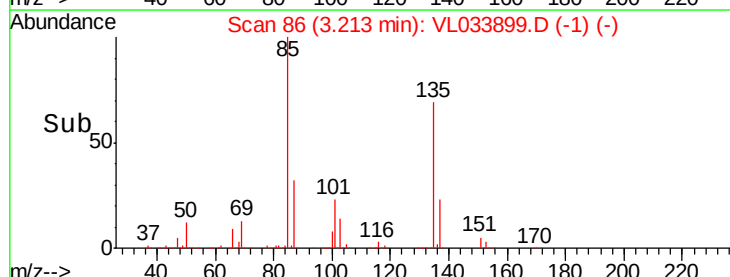
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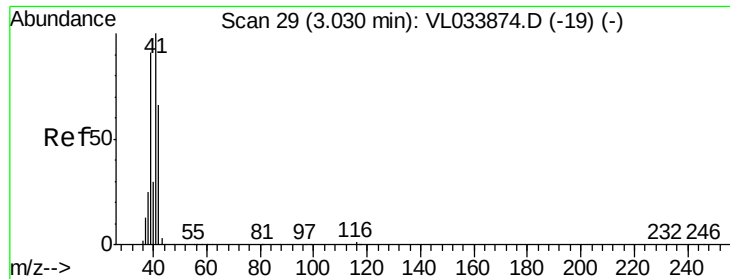
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500000

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Time-->





#9

Propene

Concen: 11.172 ppbv

RT: 3.03 min Scan# 29

Delta R.T. -0.00 min

Lab File: VL033899.D

Acq: 13 Jun 2019 14:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 41 Resp: 491597

Ion Ratio Lower Upper

41 100

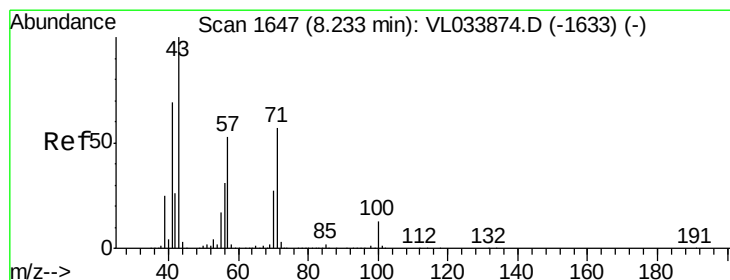
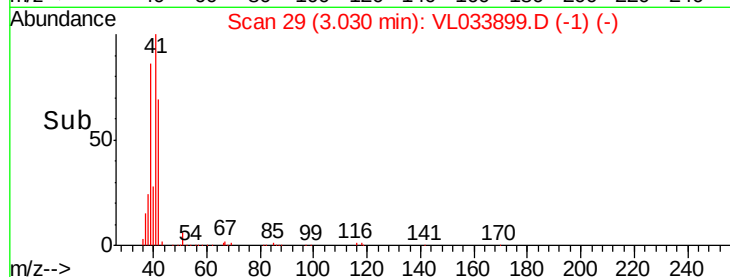
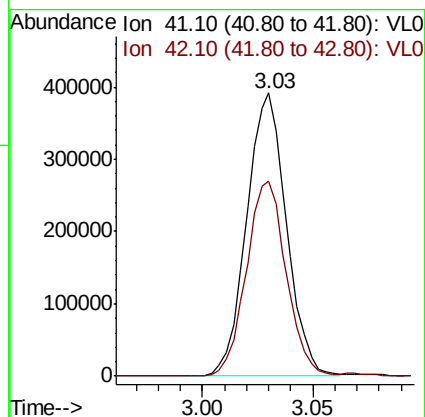
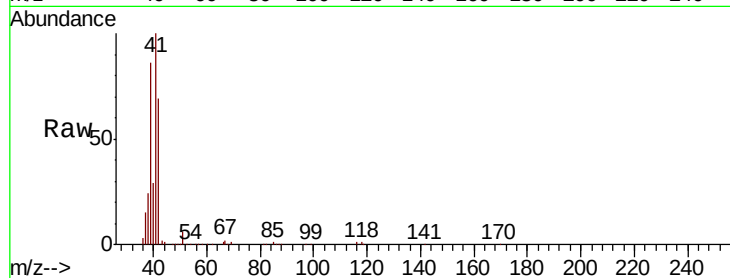
42 70.0 56.3 84.5

Manual Integrations

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#10

Heptane

Concen: 12.056 ppbv

RT: 8.23 min Scan# 1647

Delta R.T. -0.00 min

Lab File: VL033899.D

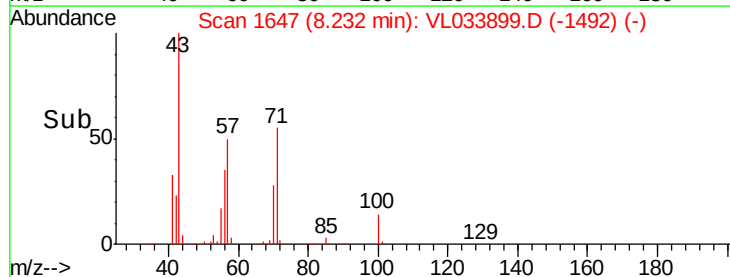
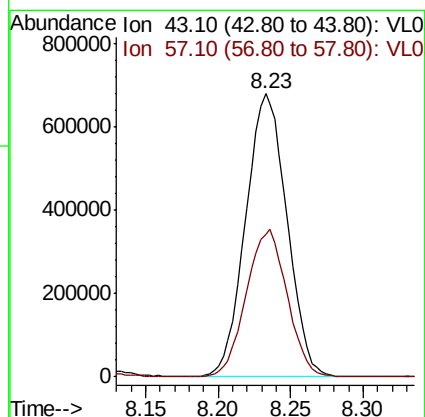
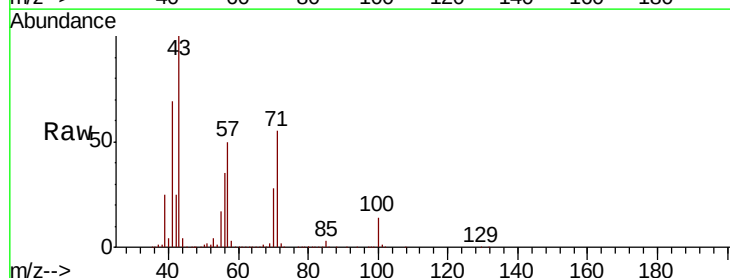
Acq: 13 Jun 2019 14:32

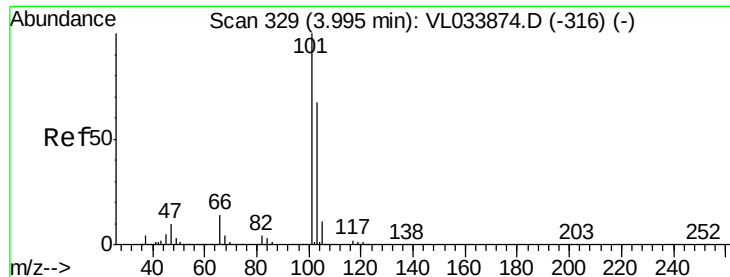
Tgt Ion: 43 Resp: 1340852

Ion Ratio Lower Upper

43 100

57 52.0 41.7 62.5





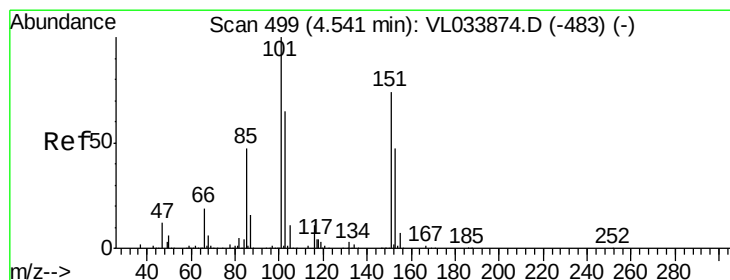
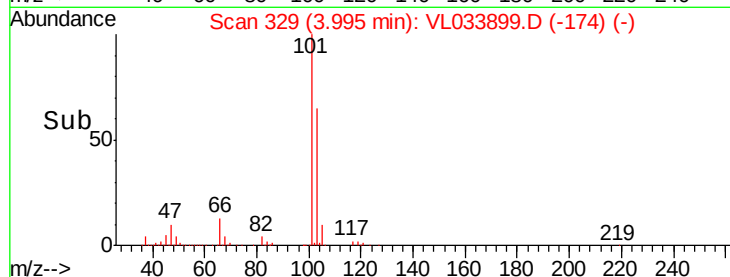
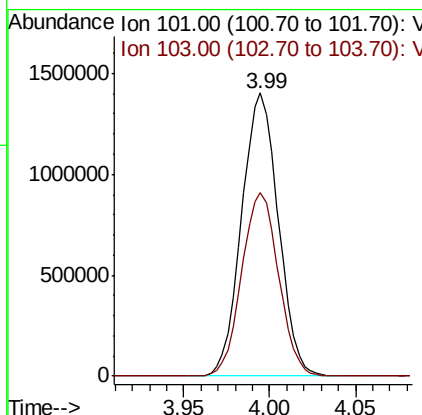
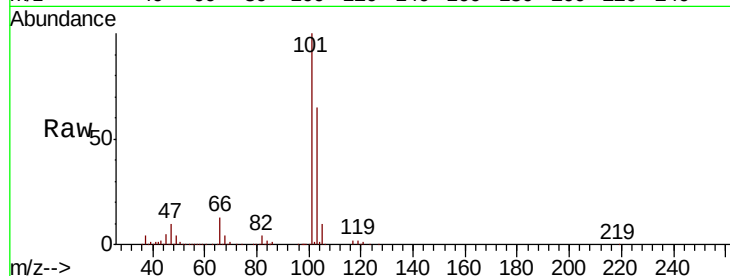
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 Trichlorofluoromethane
 Concen: 9.962 ppbv
 RT: 3.99 min Scan# 329
 Delta R.T. -0.00 min
 Lab File: VL033899.D
 Acq: 13 Jun 2019 14:32

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion:101 Resp: 2083604
 Ion Ratio Lower Upper
 101 100
 103 64.8 53.6 80.4

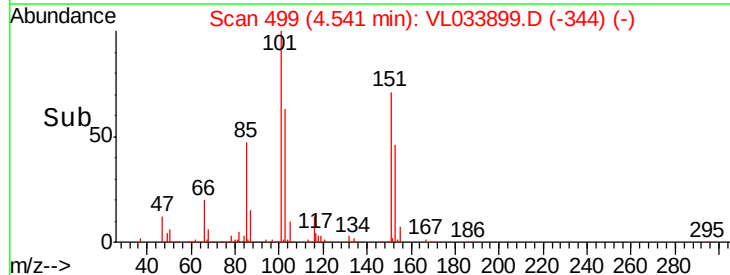
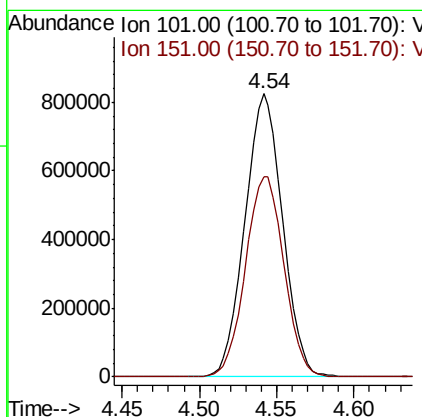
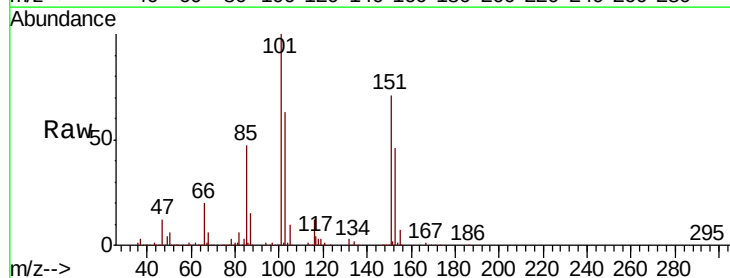
Manual Integrations
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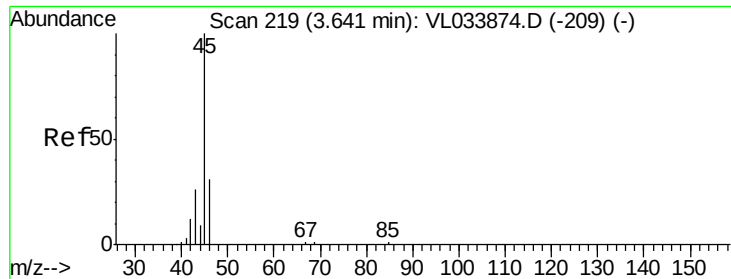
MMDadoda
 6/17/2019 12:37:02 AM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.885 ppbv
 RT: 4.54 min Scan# 499
 Delta R.T. -0.00 min
 Lab File: VL033899.D
 Acq: 13 Jun 2019 14:32

Tgt Ion:101 Resp: 1397211
 Ion Ratio Lower Upper
 101 100
 151 72.6 58.6 87.8





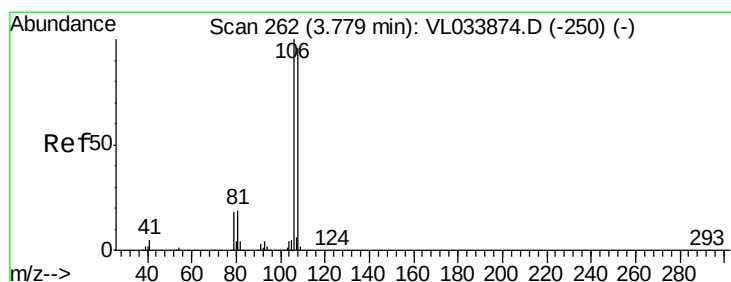
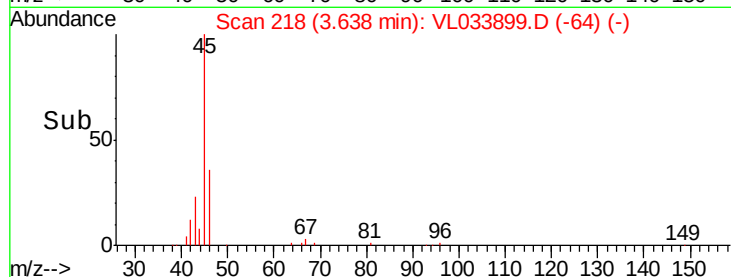
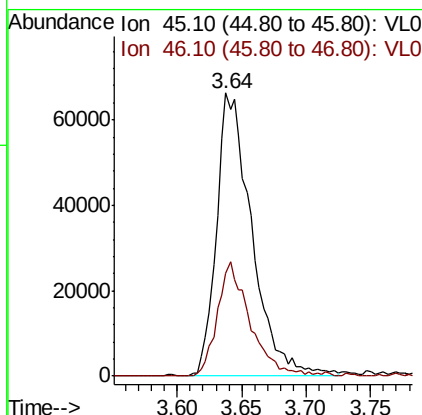
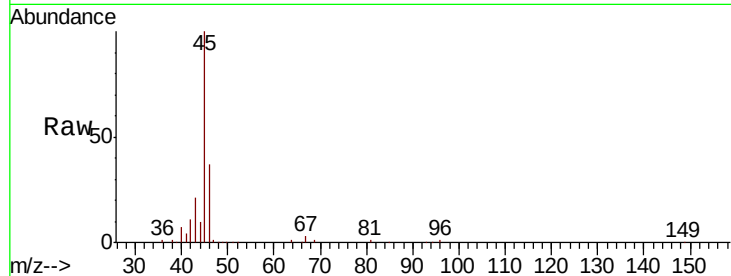
#13
Ethanol
Concen: 8.809 ppbv
RT: 3.64 min Scan# 218
Delta R.T. -0.00 min
Lab File: VL033899.D
Acq: 13 Jun 2019 14:32

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	45	Resp	126111
Ion Ratio	100	Lower	Upper
45	100		
46	37.9	15.3	61.1

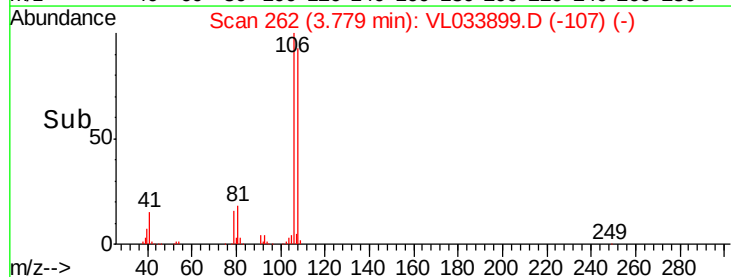
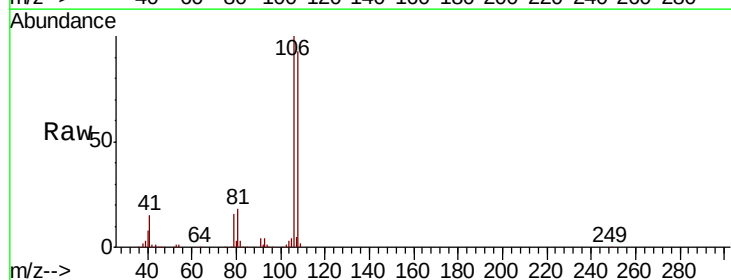
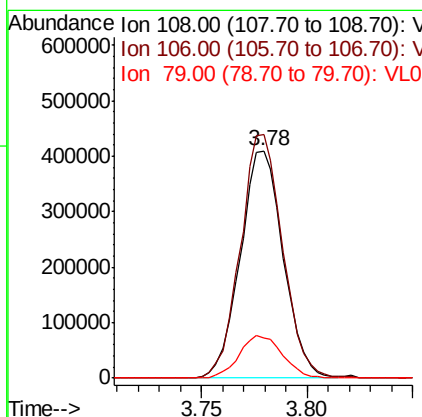
Manual Integrations
APPROVED

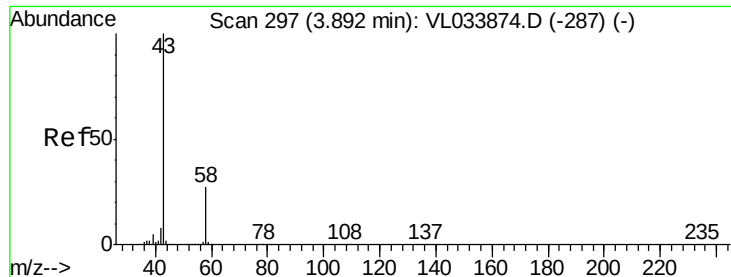
MMDadoda
6/17/2019 12:37:02 AM



#14
Bromoethene
Concen: 10.994 ppbv
RT: 3.78 min Scan# 262
Delta R.T. -0.00 min
Lab File: VL033899.D
Acq: 13 Jun 2019 14:32

Tgt Ion	108	Resp	579048
Ion Ratio	100	Lower	Upper
108	100		
106	106.3	84.9	127.3
79	19.3	15.4	23.0





#15

Acetone

Concen: 8.881 ppbv

RT: 3.89 min Scan# 297

Delta R.T. -0.00 min

Lab File: VL033899.D

Acq: 13 Jun 2019 14:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 43 Resp: 1293848

Ion Ratio Lower Upper

43 100

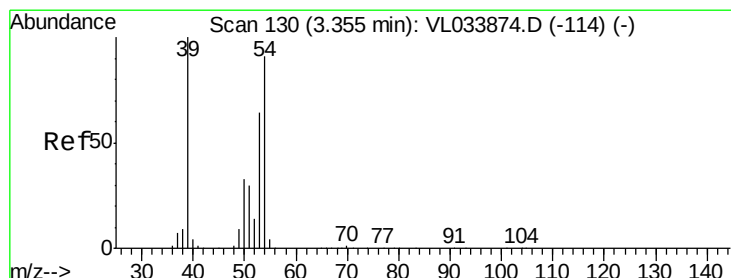
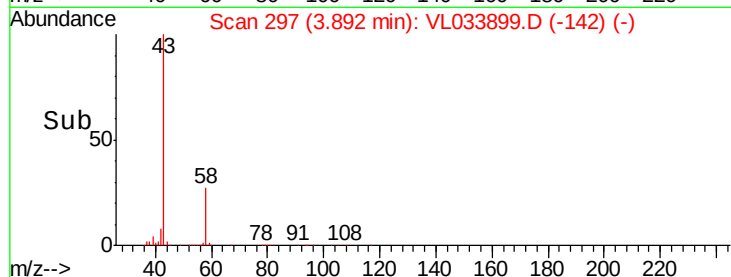
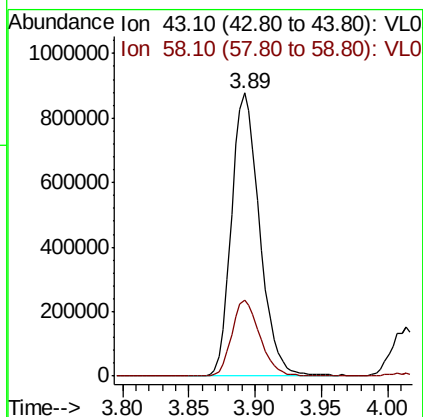
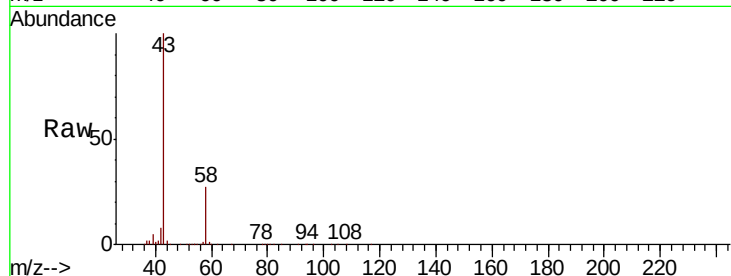
58 26.9 21.3 31.9

Manual Integrations

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#16

1,3-Butadiene

Concen: 10.323 ppbv

RT: 3.35 min Scan# 130

Delta R.T. -0.00 min

Lab File: VL033899.D

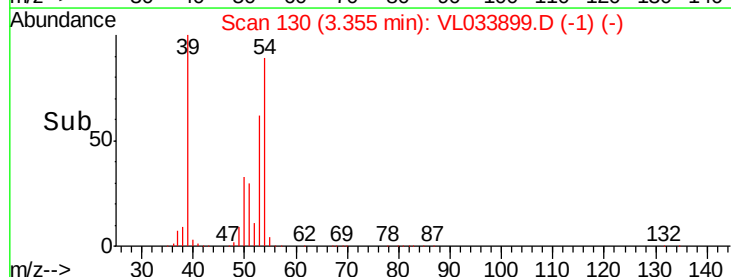
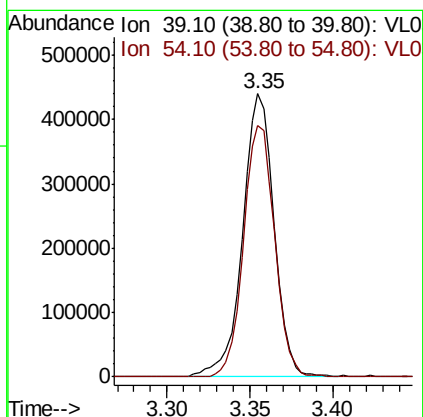
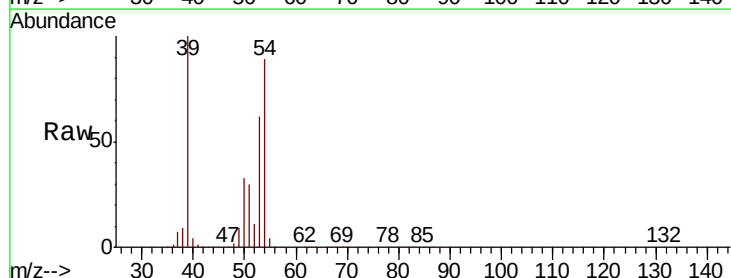
Acq: 13 Jun 2019 14:32

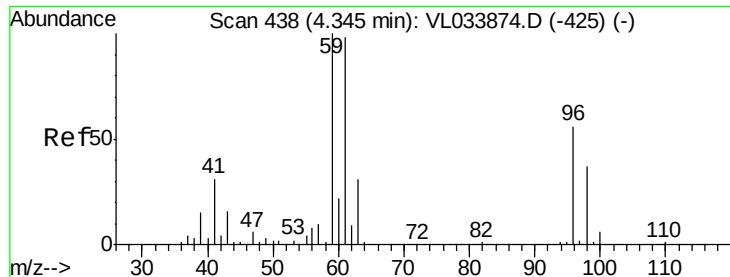
Tgt Ion: 39 Resp: 572395

Ion Ratio Lower Upper

39 100

54 89.0 68.6 103.0





#17

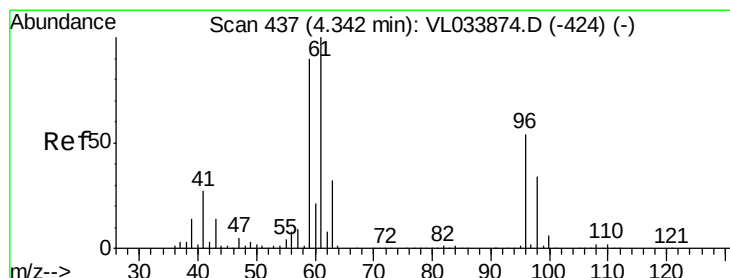
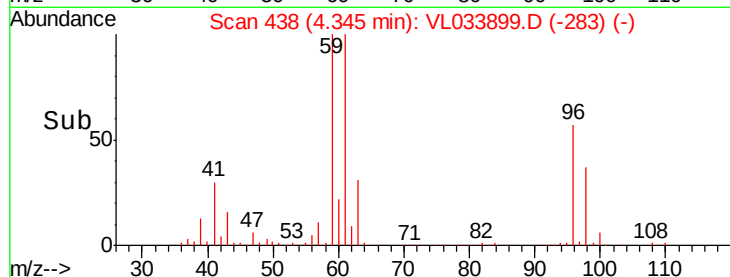
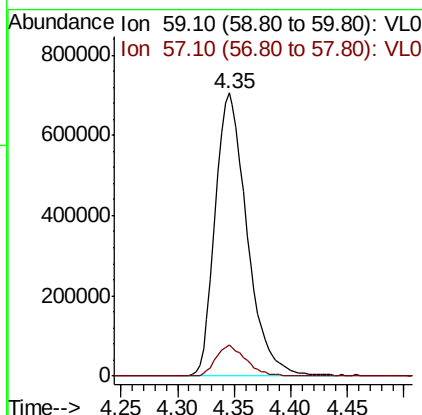
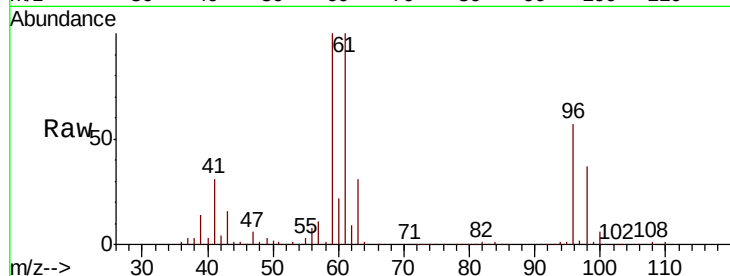
tert-Butyl alcohol
Concen: 12.092 ppbv
RT: 4.35 min Scan# 438
Delta R.T. -0.00 min
Lab File: VL033899.D
Acq: 13 Jun 2019 14:32

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 59 Resp: 1377149
Ion Ratio Lower Upper
59 100
57 10.6 8.4 12.6

Manual Integrations
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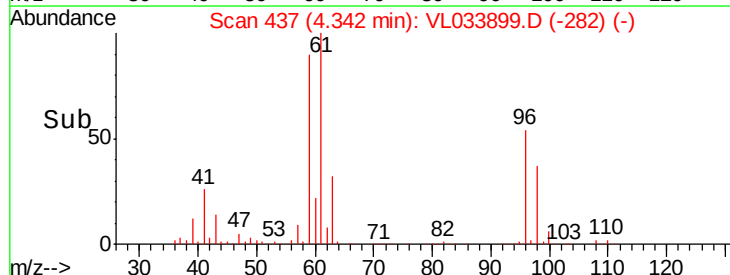
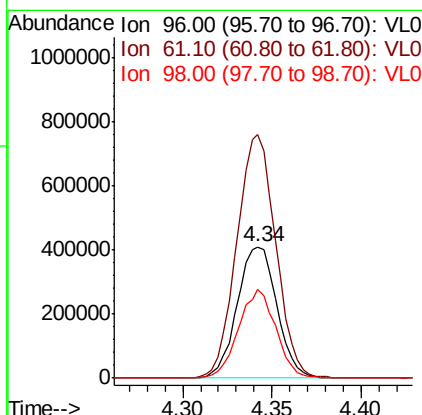
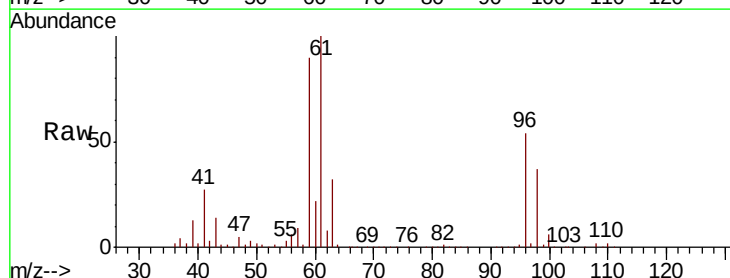
MMDadoda
6/17/2019 12:37:02 AM

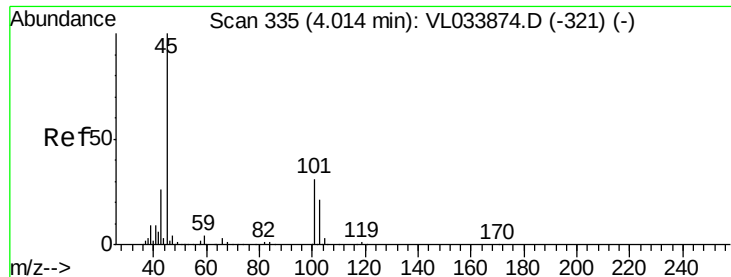


#18

1,1-Dichloroethene
Concen: 10.584 ppbv
RT: 4.34 min Scan# 437
Delta R.T. -0.00 min
Lab File: VL033899.D
Acq: 13 Jun 2019 14:32

Tgt Ion: 96 Resp: 631887
Ion Ratio Lower Upper
96 100
61 185.5 147.0 220.6
98 67.9 49.4 74.0





#19

Isopropyl Alcohol

Concen: 12.494 ppbv

RT: 4.01 min Scan# 335

Delta R.T. -0.00 min

Lab File: VL033899.D

Acq: 13 Jun 2019 14:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 45 Resp: 1039791

Ion Ratio Lower Upper

45 100

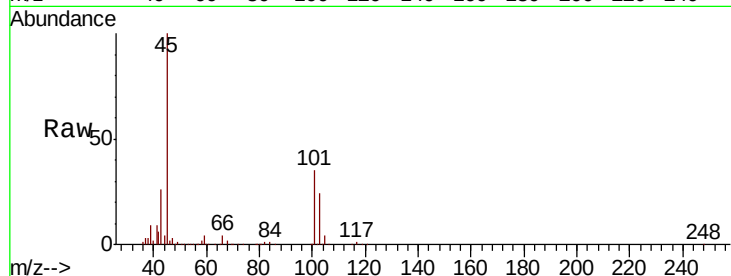
58 1.8 1.8 2.6

Manual Integrations

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Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

4.01

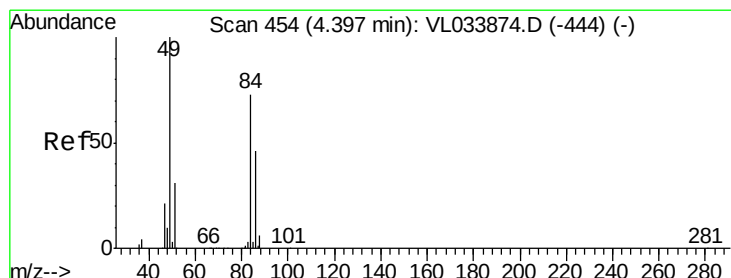
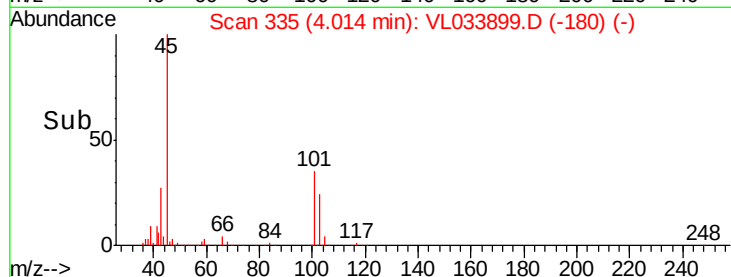
600000

400000

200000

0

Time-->



#20

Methylene Chloride

Concen: 9.136 ppbv

RT: 4.40 min Scan# 455

Delta R.T. 0.00 min

Lab File: VL033899.D

Acq: 13 Jun 2019 14:32

Tgt Ion: 84 Resp: 519052

Ion Ratio Lower Upper

84 100

49 141.4 110.0 165.0

51 41.5 34.6 51.8

86 64.9 50.6 75.8

Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

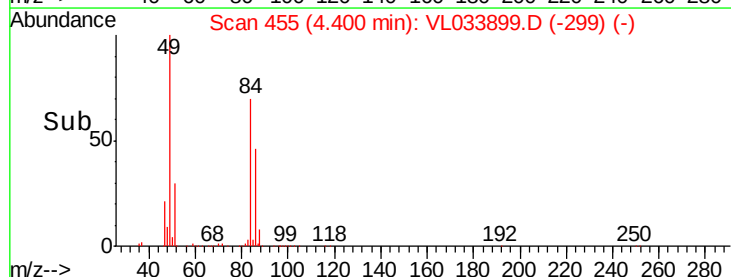
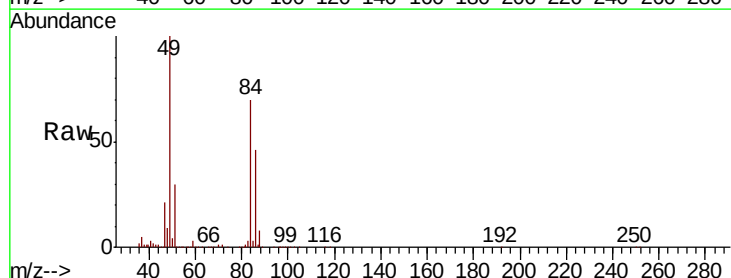
600000

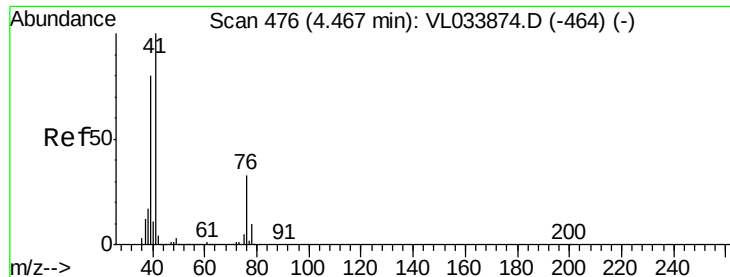
400000

200000

0

Time-->





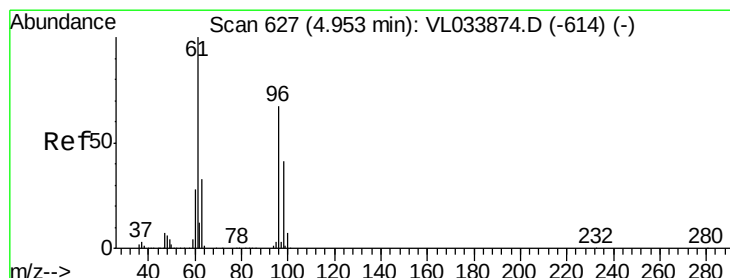
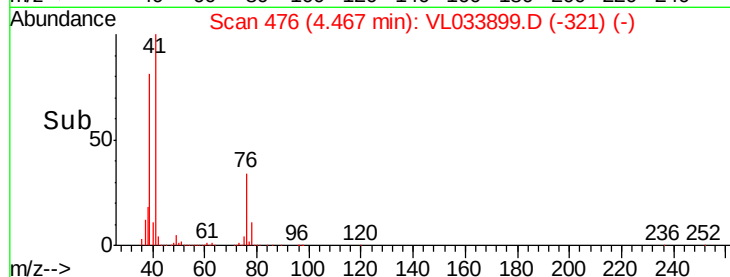
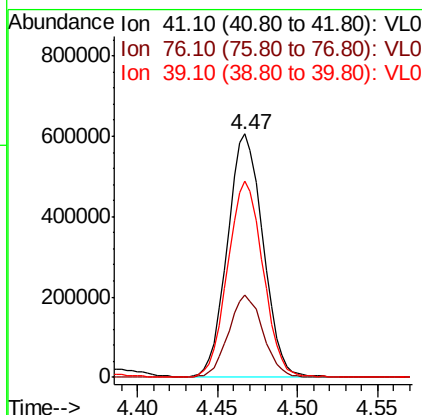
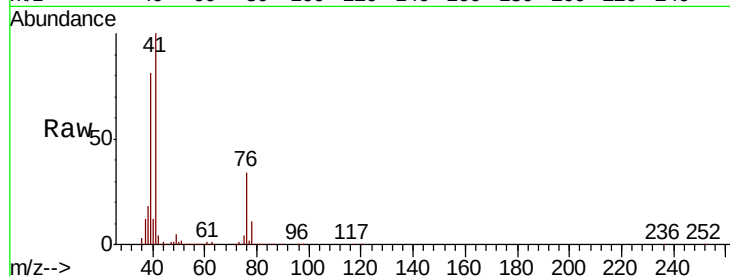
#21
 Allvl Chloride
 Concen: 11.003 ppbv
 RT: 4.47 min Scan# 476
 Delta R.T. -0.00 min
 Lab File: VL033899.D
 Acq: 13 Jun 2019 14:32

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
41	100		
76	33.1	26.6	39.8
39	80.8	65.2	97.8

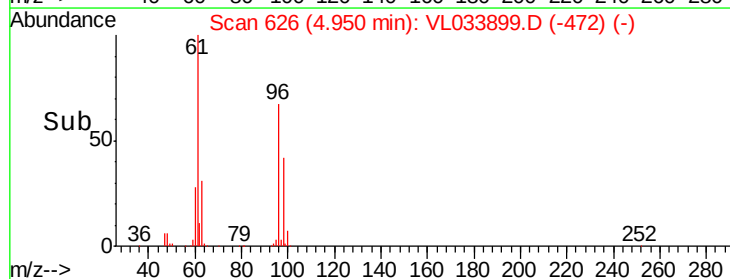
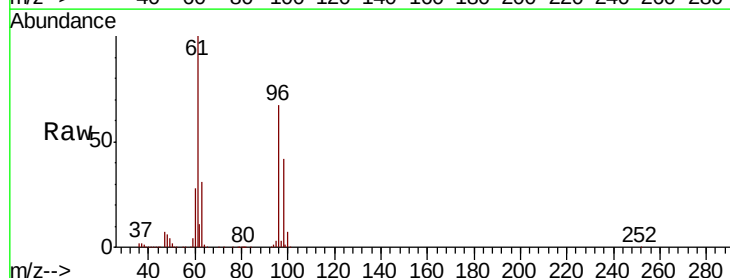
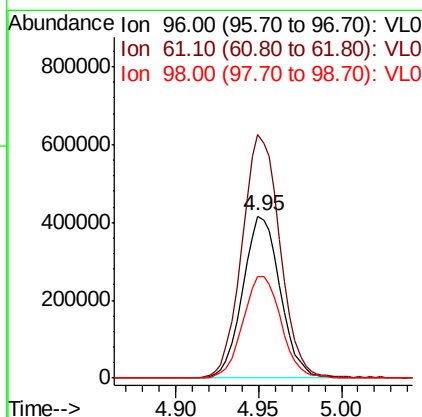
Manual Integrations
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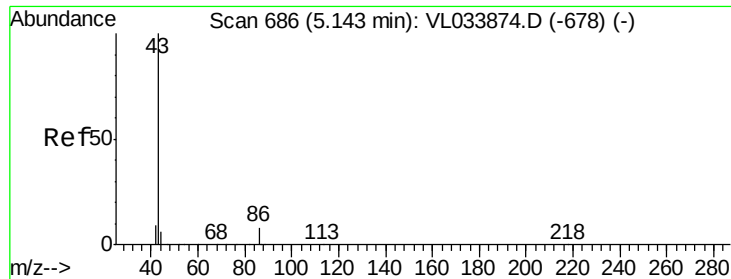
MMDadoda
 6/17/2019 12:37:02 AM



#22
 trans-1,2-Dichloroethene
 Concen: 10.378 ppbv
 RT: 4.95 min Scan# 626
 Delta R.T. -0.00 min
 Lab File: VL033899.D
 Acq: 13 Jun 2019 14:32

Tgt Ion	Ratio	Lower	Upper
96	100		
61	150.3	119.0	178.6
98	62.9	48.3	72.5





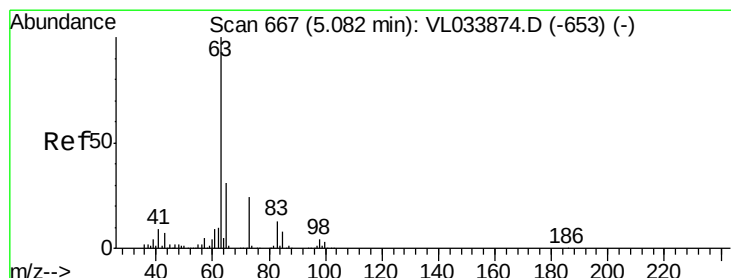
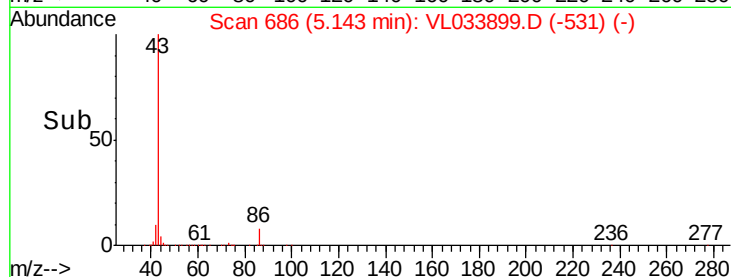
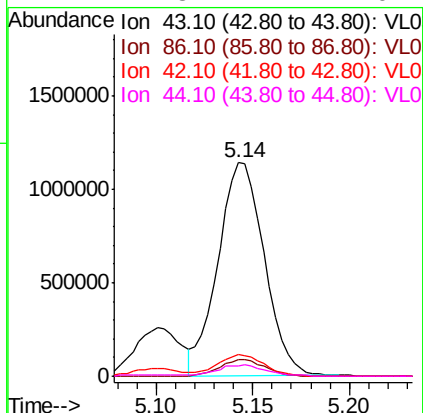
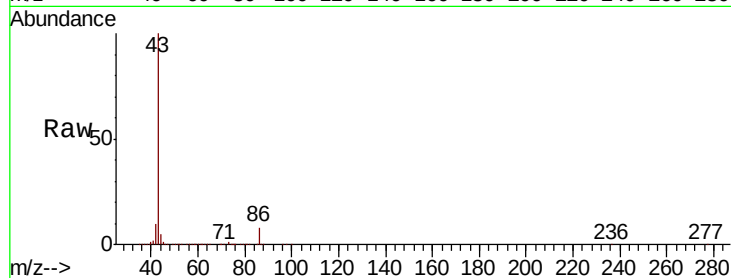
#23
 Vinyl Acetate
 Concen: 11.197 ppbv
 RT: 5.14 min Scan# 686
 Delta R.T. -0.00 min
 Lab File: VL033899.D
 Acq: 13 Jun 2019 14:32

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion:	43	Resp:	1896037
Ion	Ratio	Lower	Upper
43	100		
86	7.6	5.8	8.8
42	9.9	7.8	11.8
44	4.8	4.2	6.4

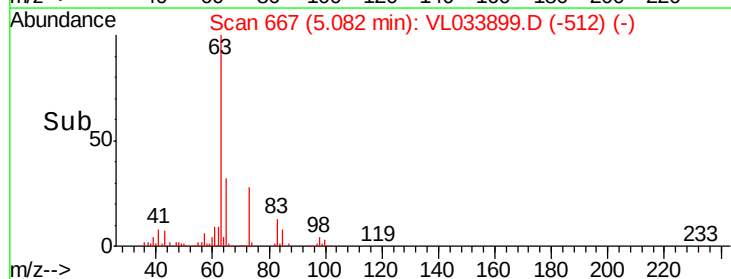
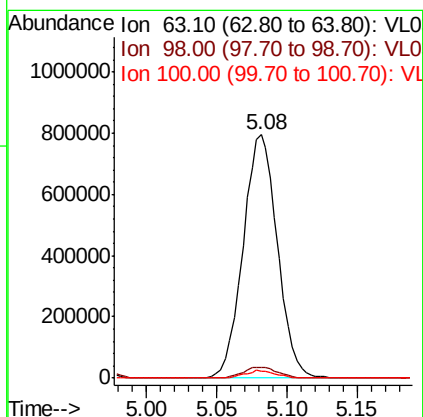
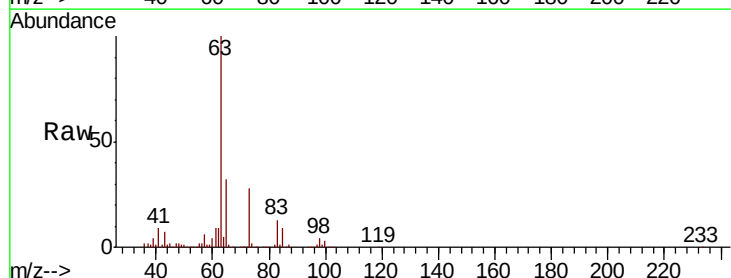
Manual Integrations
 APPROVED

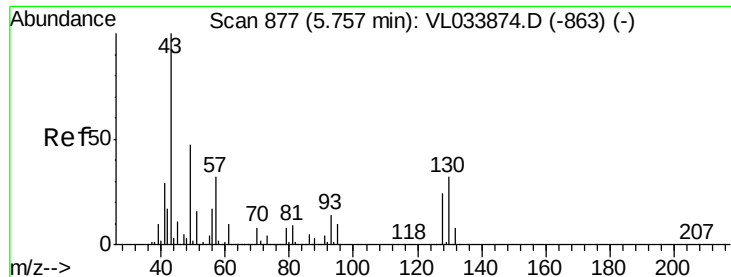
MMDadoda
 6/17/2019 12:37:02 AM



#24
 1,1-Dichloroethane
 Concen: 10.262 ppbv
 RT: 5.08 min Scan# 667
 Delta R.T. -0.00 min
 Lab File: VL033899.D
 Acq: 13 Jun 2019 14:32

Tgt Ion:	63	Resp:	1351591
Ion	Ratio	Lower	Upper
63	100		
98	4.2	2.2	6.6
100	2.6	1.3	3.8





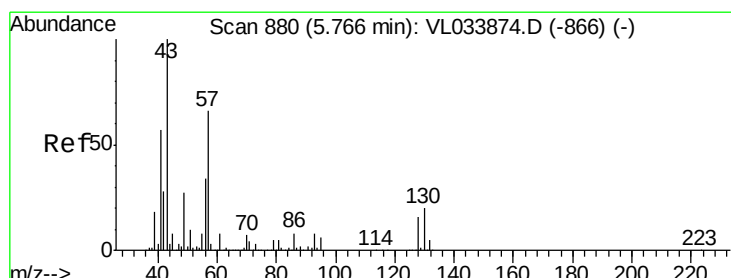
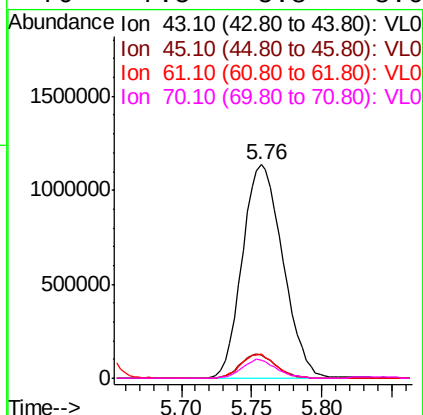
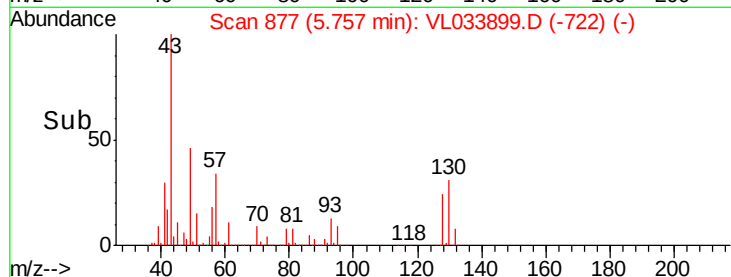
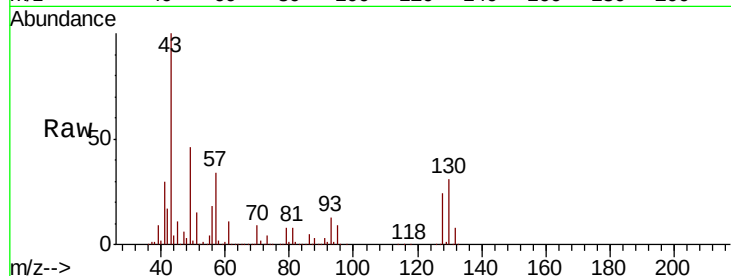
#25
Ethyl Acetate
Concen: 10.299 ppbv
RT: 5.76 min Scan# 877
Delta R.T. -0.00 min
Lab File: VL033899.D
Acq: 13 Jun 2019 14:32

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ion	Ratio	Lower	Upper
43	100			
45	10.0	7.9	11.9	
61	9.9	7.8	11.6	
70	7.5	5.8	8.6	

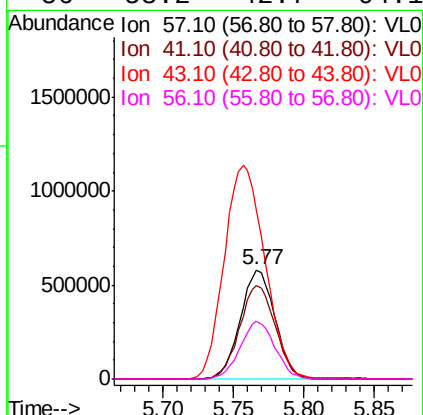
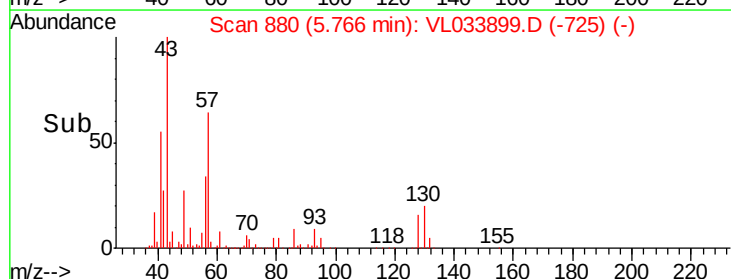
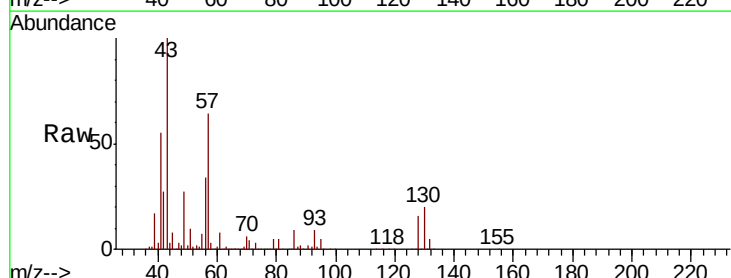
Manual Integrations
APPROVED

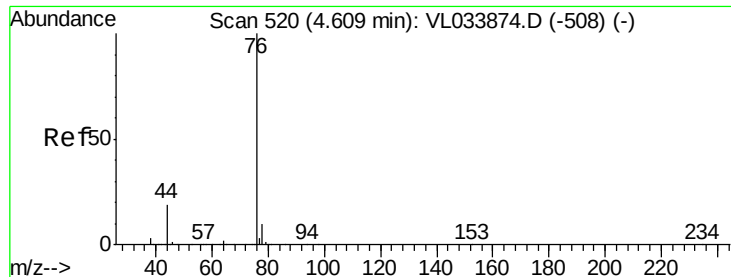
MMDadoda
6/17/2019 12:37:02 AM



#26
Hexane
Concen: 9.900 ppbv
RT: 5.77 min Scan# 880
Delta R.T. -0.00 min
Lab File: VL033899.D
Acq: 13 Jun 2019 14:32

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	88.6	71.4	107.2	
43	230.0	183.7	275.5	
56	53.2	42.7	64.1	





#27

Carbon Disulfide

Concen: 11.360 ppbv

RT: 4.61 min Scan# 520

Delta R.T. -0.00 min

Lab File: VL033899.D

Acq: 13 Jun 2019 14:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 76 Resp: 1594271

Ion Ratio Lower Upper

76 100

44 17.2 14.4 21.6

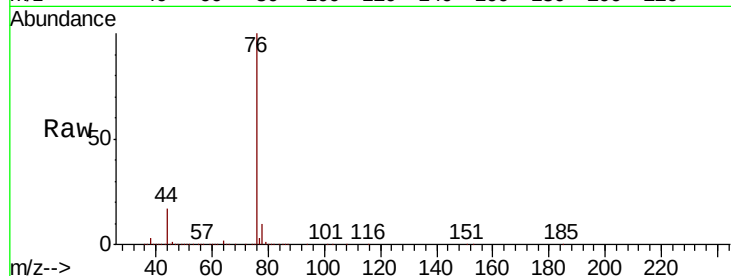
78 9.7 7.5 11.3

Manual Integrations

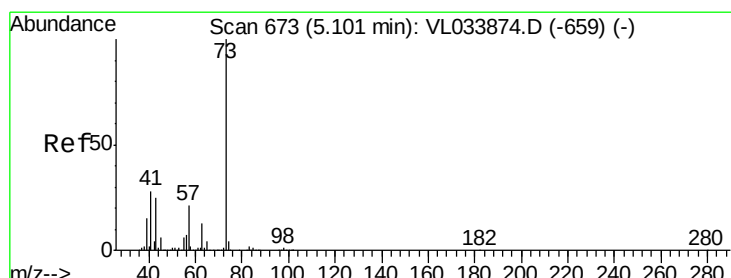
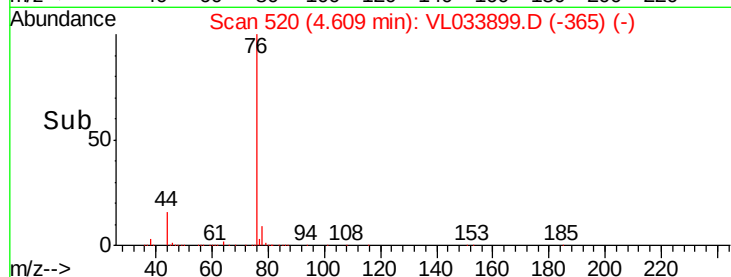
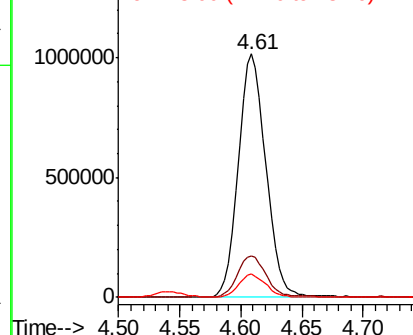
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6/17/2019 12:37:02 AM



Abundance Ion 76.00 (75.70 to 76.70): VL0
Ion 44.10 (43.80 to 44.80): VL0
Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 11.823 ppbv

RT: 5.10 min Scan# 673

Delta R.T. -0.00 min

Lab File: VL033899.D

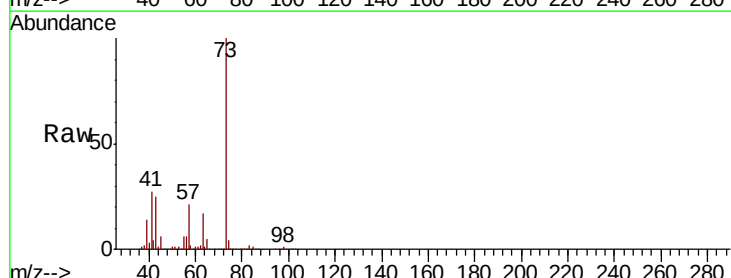
Acq: 13 Jun 2019 14:32

Tgt Ion: 73 Resp: 1806045

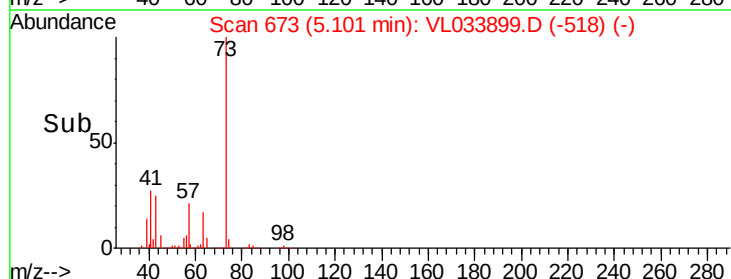
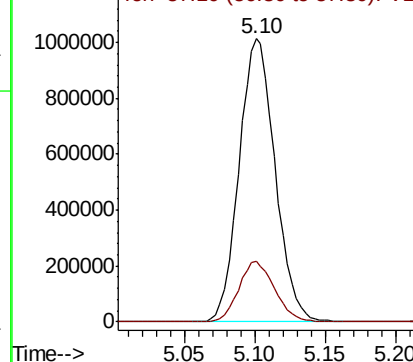
Ion Ratio Lower Upper

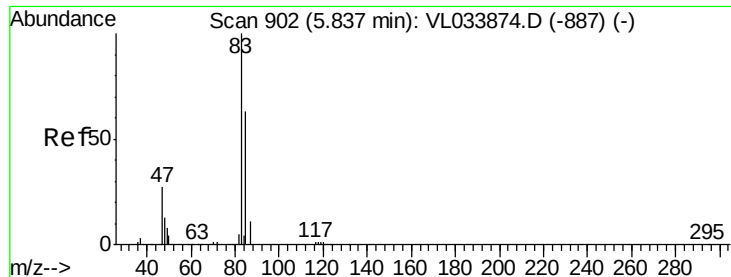
73 100

57 21.6 17.2 25.8



Abundance Ion 73.10 (72.80 to 73.80): VL0
Ion 57.10 (56.80 to 57.80): VL0





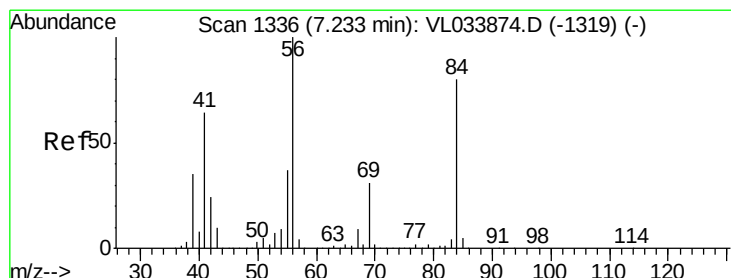
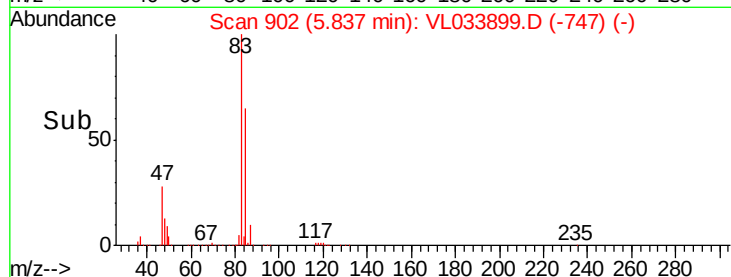
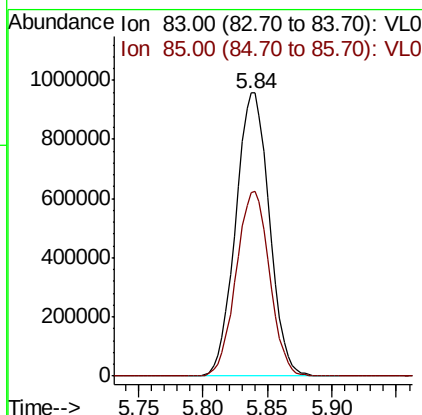
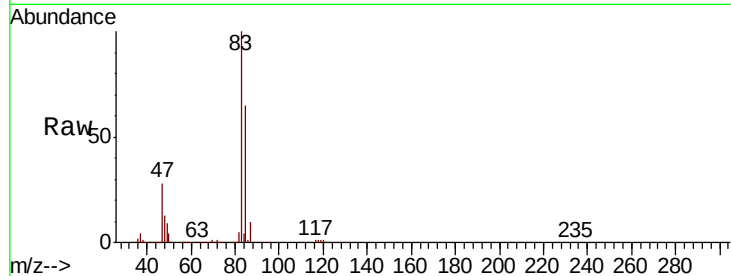
#29
Chloroform
Concen: 10.067 ppbv
RT: 5.84 min Scan# 902
Delta R.T. -0.00 min
Lab File: VL033899.D
Acq: 13 Jun 2019 14:32

Instrument :
MSVOA_L
ClientSampled :
VSTDCCC010

Tot Ion: 83 Resp: 1741644
Ion Ratio Lower Upper
83 100
85 65.0 50.5 75.7

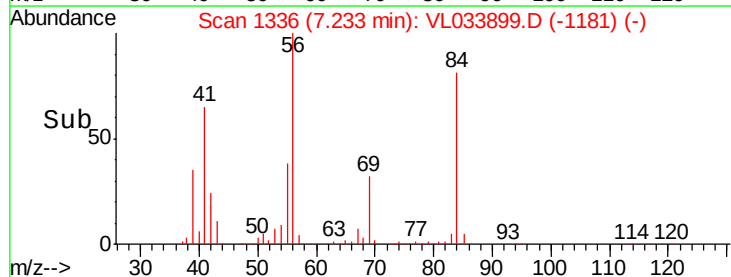
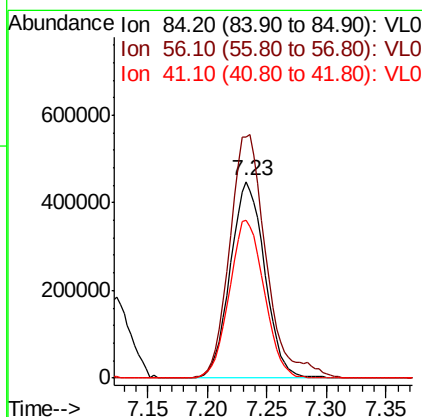
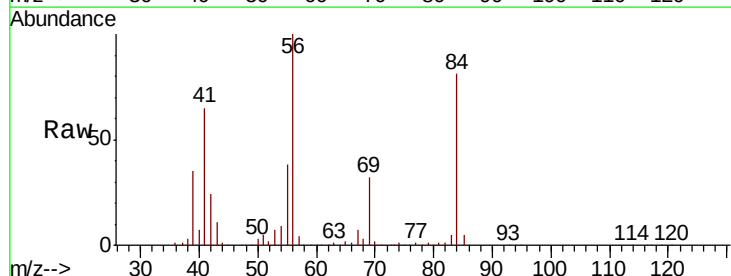
Manual Integrations
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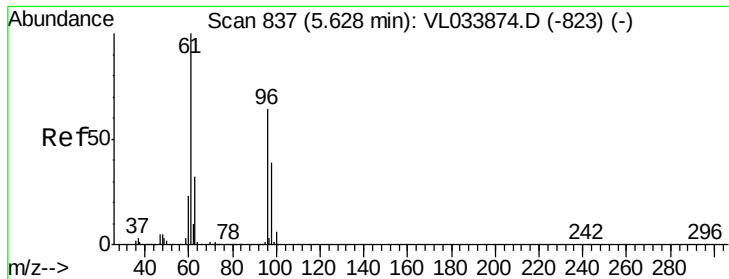
MMDadoda
6/17/2019 12:37:02 AM



#30
Cyclohexane
Concen: 12.622 ppbv
RT: 7.23 min Scan# 1336
Delta R.T. -0.00 min
Lab File: VL033899.D
Acq: 13 Jun 2019 14:32

Tgt Ion: 84 Resp: 900873
Ion Ratio Lower Upper
84 100
56 131.6 105.8 158.8
41 81.0 65.7 98.5





#31

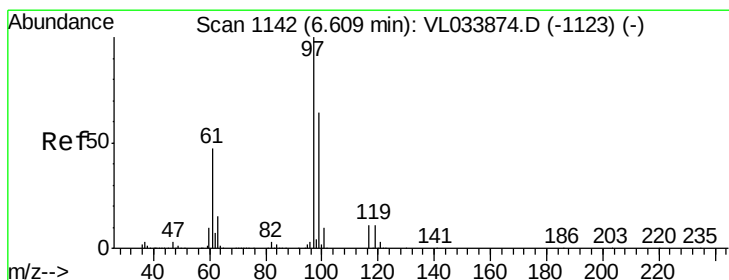
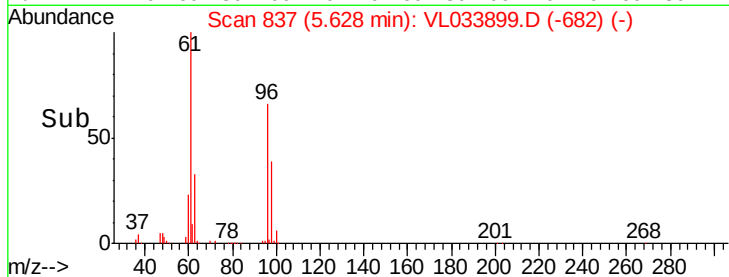
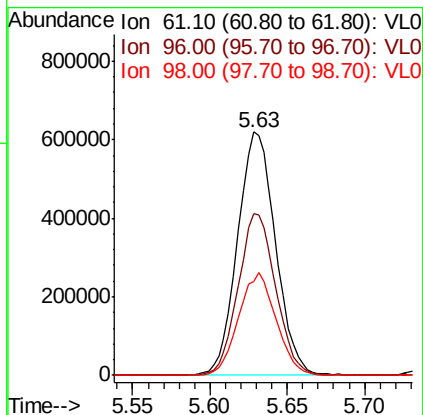
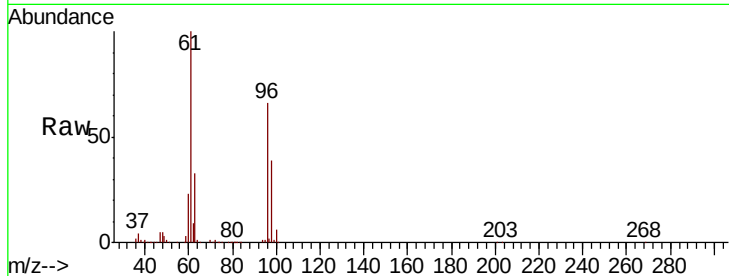
cis-1,2-Dichloroethene
Concen: 11.930 ppbv
RT: 5.63 min Scan# 837
Delta R.T. -0.00 min
Lab File: VL033899.D
Acq: 13 Jun 2019 14:32

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
61	100		
96	66.2	50.9	76.3
98	38.7	31.4	47.2

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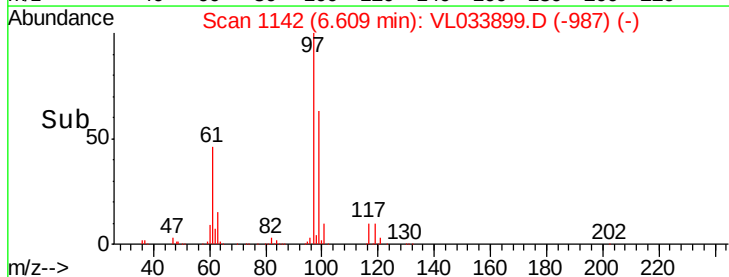
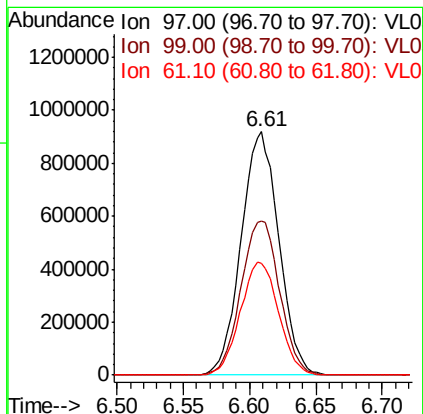
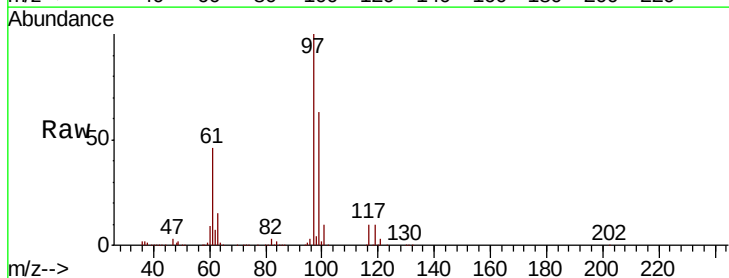
MMDadoda
6/17/2019 12:37:02 AM

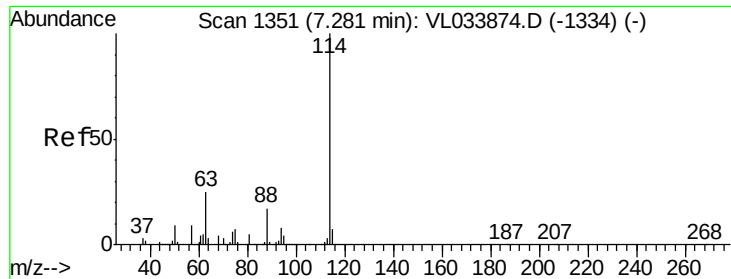


#32

1,1,1-Trichloroethane
Concen: 10.911 ppbv
RT: 6.61 min Scan# 1142
Delta R.T. -0.00 min
Lab File: VL033899.D
Acq: 13 Jun 2019 14:32

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.8	51.7	77.5
61	47.1	37.7	56.5





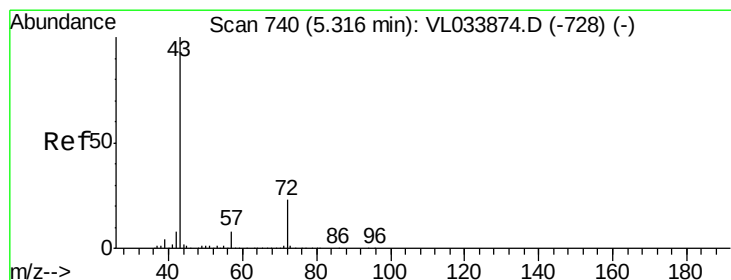
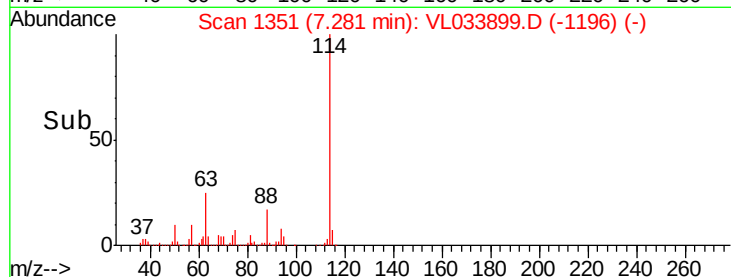
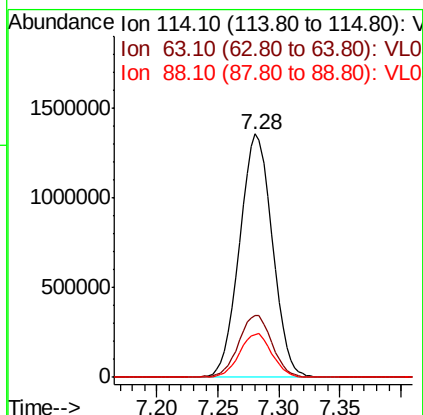
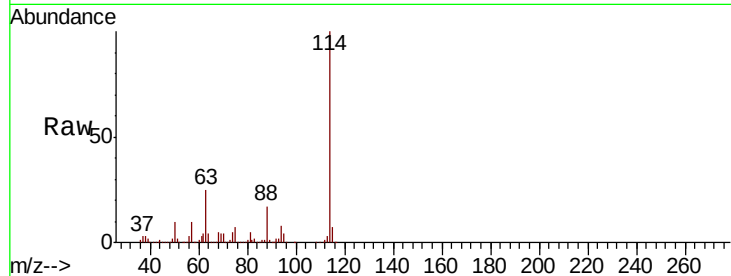
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.28 min Scan# 1351
 Delta R.T. -0.00 min
 Lab File: VL033899.D
 Acq: 13 Jun 2019 14:32

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
114	100		
63	26.2	21.1	31.7
88	17.8	14.2	21.4

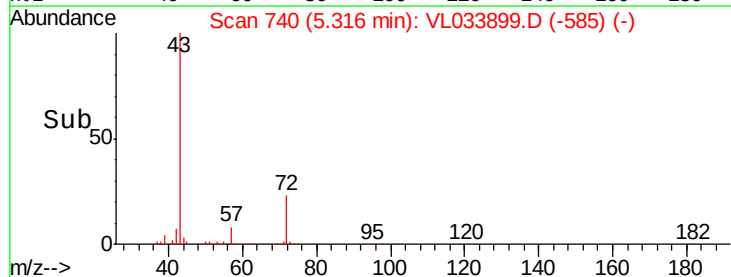
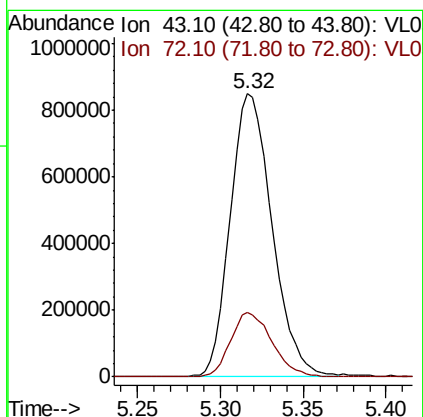
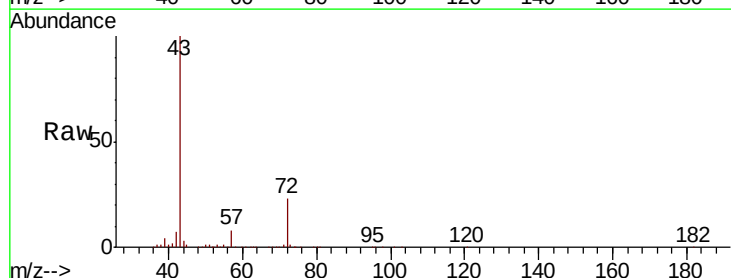
Manual Integrations
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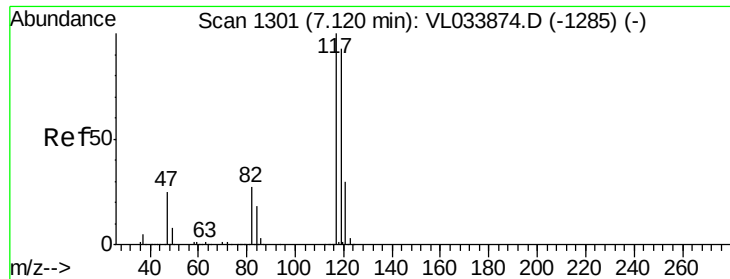
MMDadoda
 6/17/2019 12:37:02 AM



#34
 2-Butanone
 Concen: 10.455 ppbv
 RT: 5.32 min Scan# 740
 Delta R.T. -0.00 min
 Lab File: VL033899.D
 Acq: 13 Jun 2019 14:32

Tgt Ion	Ratio	Lower	Upper
43	100		
72	22.9	17.9	26.9





#35

Carbon Tetrachloride

Concen: 10.700 ppbv

RT: 7.12 min Scan# 1301

Delta R.T. -0.00 min

Lab File: VL033899.D

Acq: 13 Jun 2019 14:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:117 Resp: 2079683

Ion Ratio Lower Upper

117 100

119 94.1 74.6 111.8

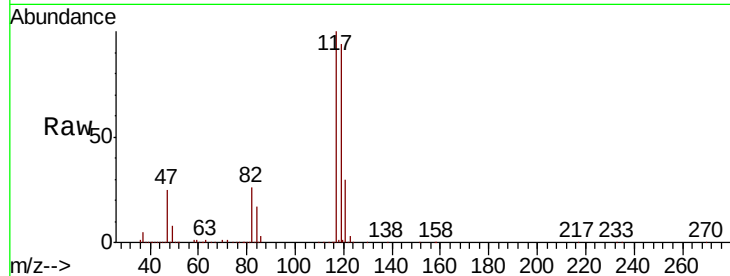
121 30.0 24.0 36.0

Manual Integrations

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MMDadoda

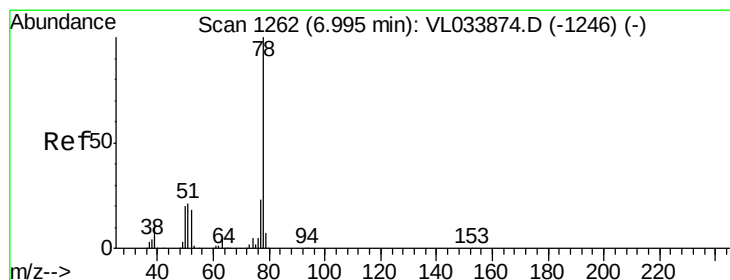
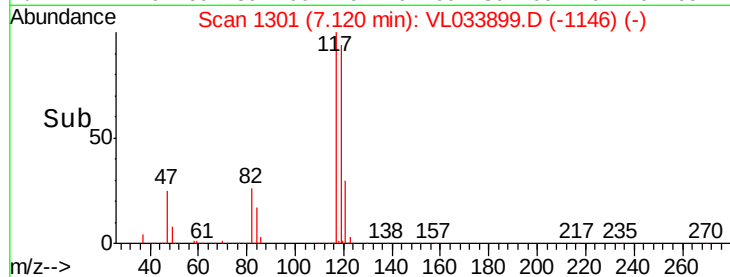
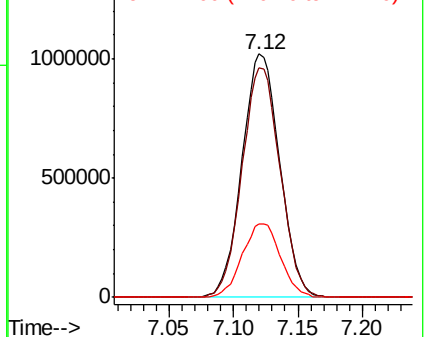
6/17/2019 12:37:02 AM



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: 11.607 ppbv

RT: 6.99 min Scan# 1262

Delta R.T. -0.00 min

Lab File: VL033899.D

Acq: 13 Jun 2019 14:32

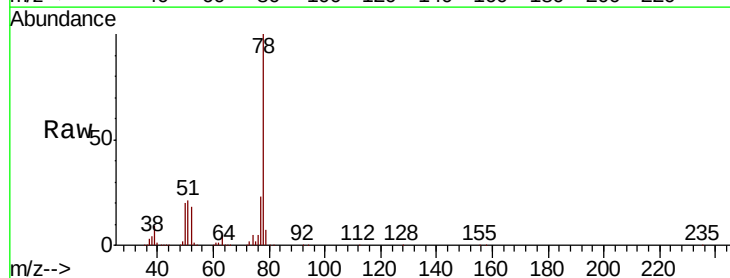
Tgt Ion: 78 Resp: 2230515

Ion Ratio Lower Upper

78 100

77 22.8 18.2 27.2

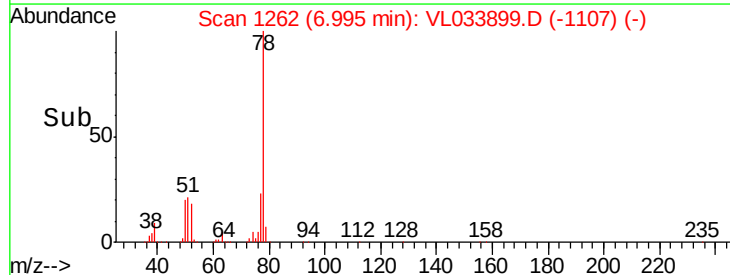
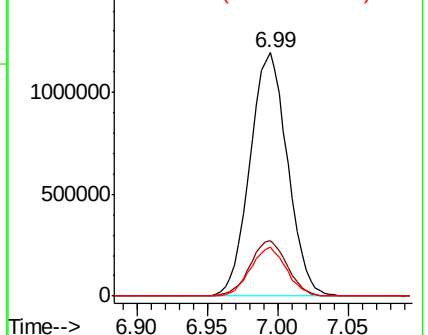
50 20.0 15.9 23.9

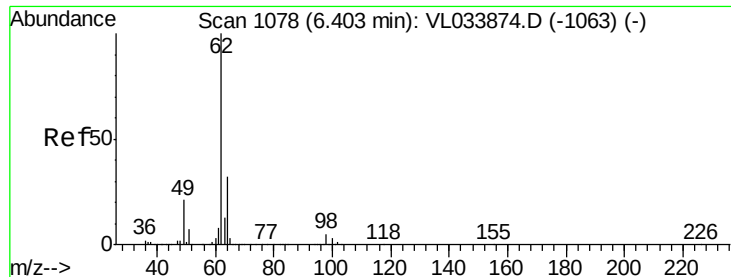


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





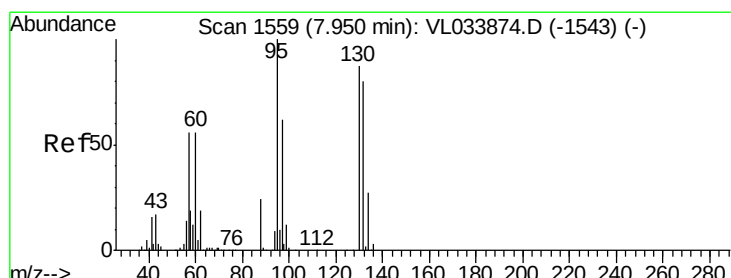
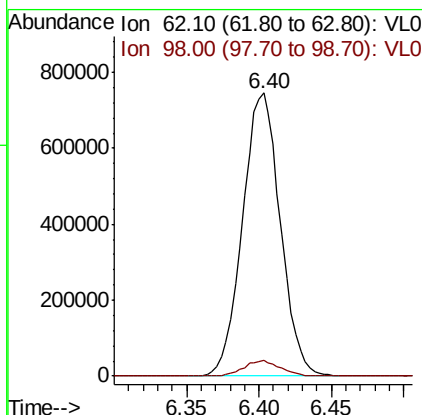
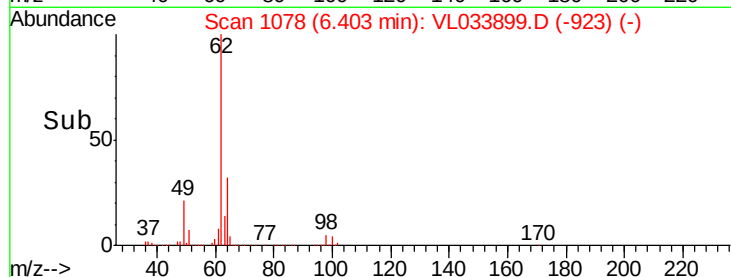
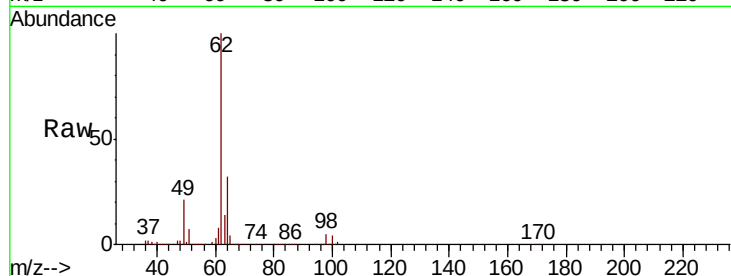
#37
1,2-Dichloroethane
Concen: 9.504 ppbv
RT: 6.40 min Scan# 1078
Delta R.T. -0.00 min
Lab File: VL033899.D
Acq: 13 Jun 2019 14:32

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 62 Resp: 1350733
Ion Ratio Lower Upper
62 100
98 5.4 4.0 6.0

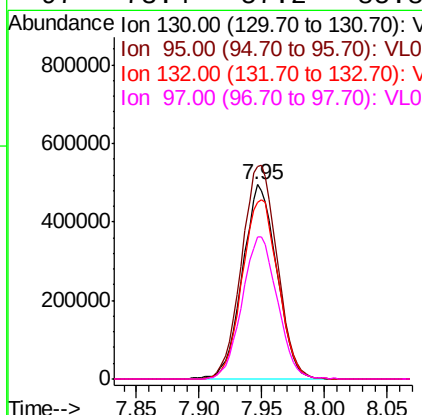
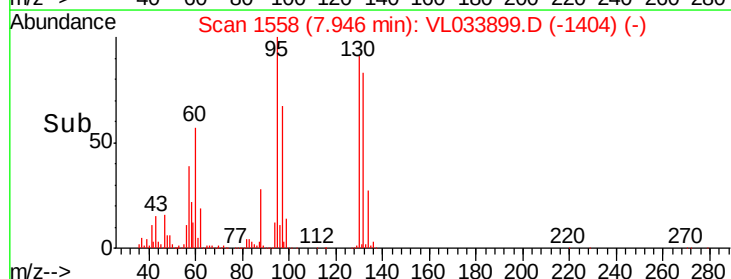
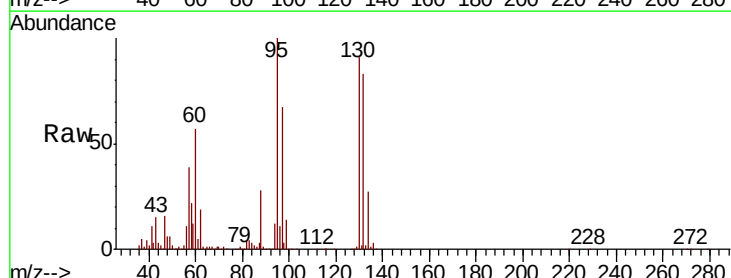
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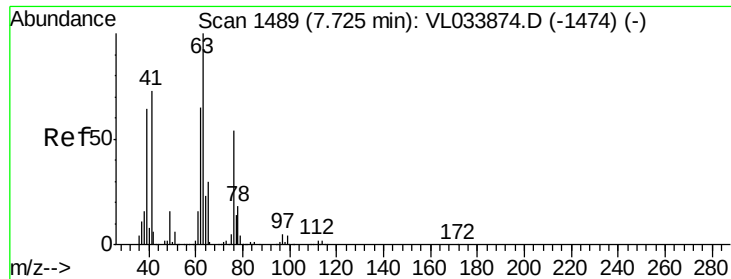
MMDadoda
6/17/2019 12:37:02 AM



#38
Trichloroethene
Concen: 12.535 ppbv
RT: 7.95 min Scan# 1558
Delta R.T. -0.00 min
Lab File: VL033899.D
Acq: 13 Jun 2019 14:32

Tgt Ion:130 Resp: 937893
Ion Ratio Lower Upper
130 100
95 109.7 92.0 138.0
132 91.0 73.8 110.8
97 73.4 57.2 85.8





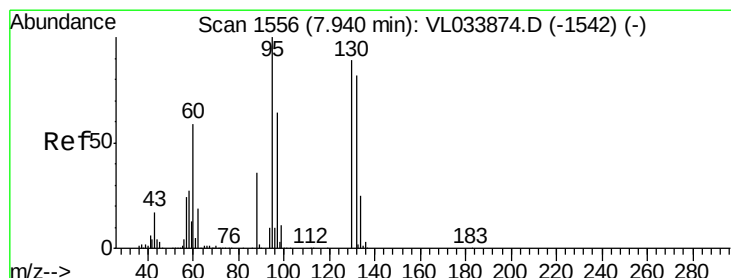
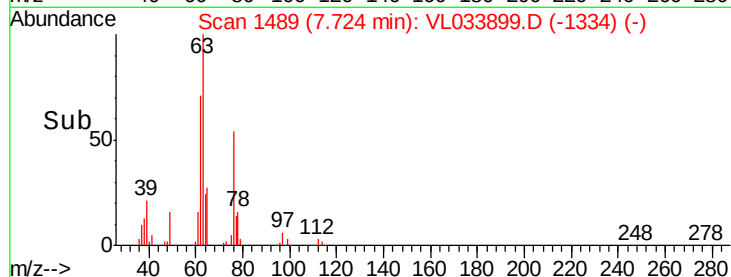
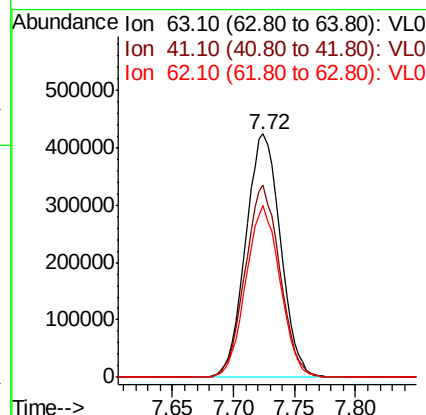
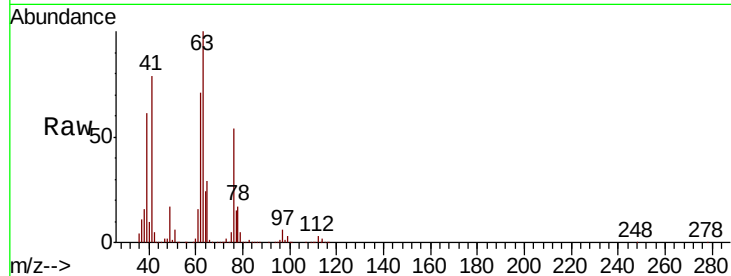
#39
 1,2-Dichloropropane
 Concen: 11.249 ppbv
 RT: 7.72 min Scan# 1489
 Delta R.T. -0.00 min
 Lab File: VL033899.D
 Acq: 13 Jun 2019 14:32

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
63	100		
41	78.9	58.7	88.1
62	70.5	51.9	77.9

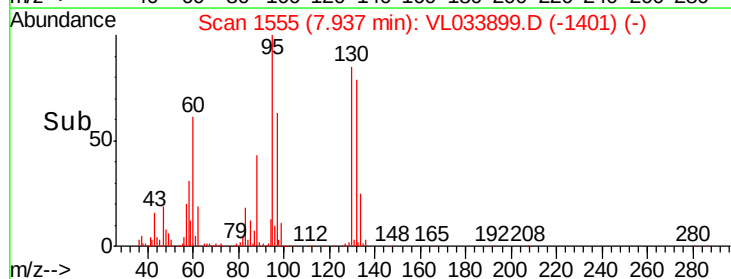
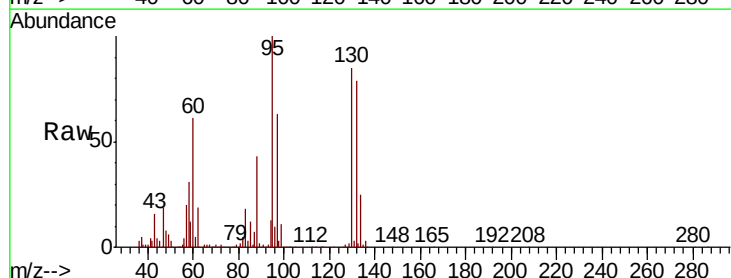
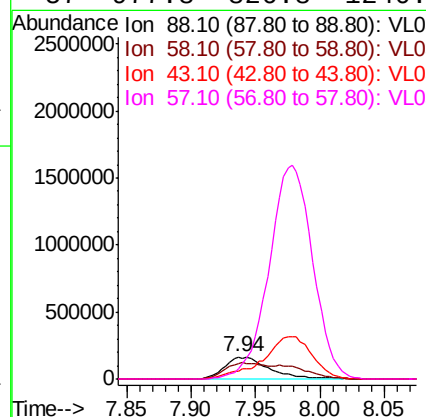
Manual Integrations
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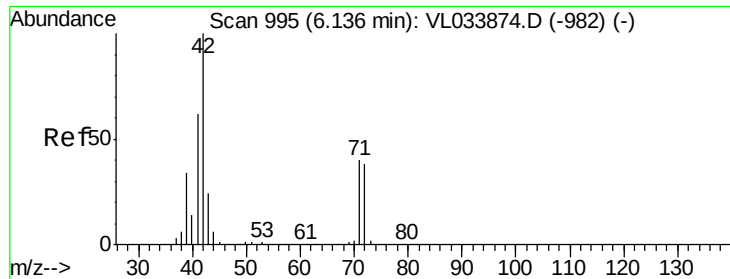
MMDadoda
 6/17/2019 12:37:02 AM



#40
 1,4-Dioxane
 Concen: 12.702 ppbv
 RT: 7.94 min Scan# 1555
 Delta R.T. -0.00 min
 Lab File: VL033899.D
 Acq: 13 Jun 2019 14:32

Tgt Ion	Ratio	Lower	Upper
88	100		
58	120.2	100.0	150.0
43	221.7	184.7	277.1
57	977.8	826.8	1240.2





#41

Tetrahydrofuran

Concen: 11.646 ppbv

RT: 6.14 min Scan# 995

Delta R.T. -0.00 min

Lab File: VL033899.D

Acq: 13 Jun 2019 14:32

Instrument :

MSVOA_L

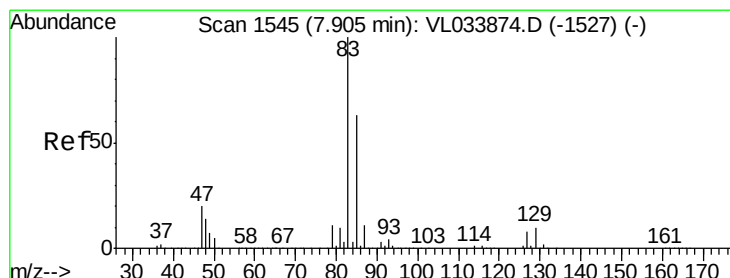
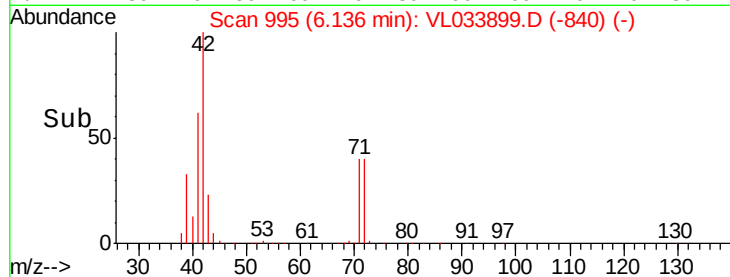
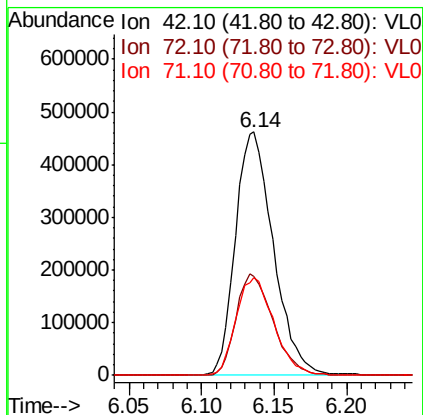
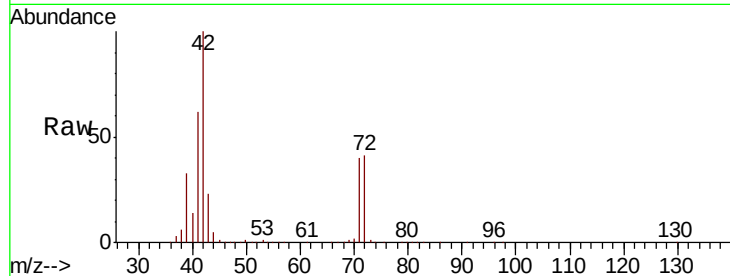
ClientSampleId :

VSTDCCC010

Tot Ion:	42	Resp:	838911
Ion Ratio		Lower	Upper
42	100		
72	40.9	32.2	48.4
71	40.3	31.7	47.5

Manual Integrations
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#42

Bromodichloromethane

Concen: 10.995 ppbv

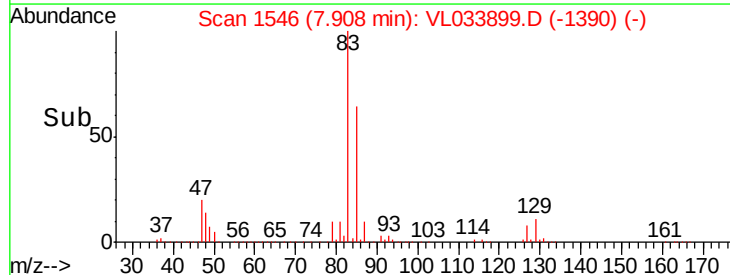
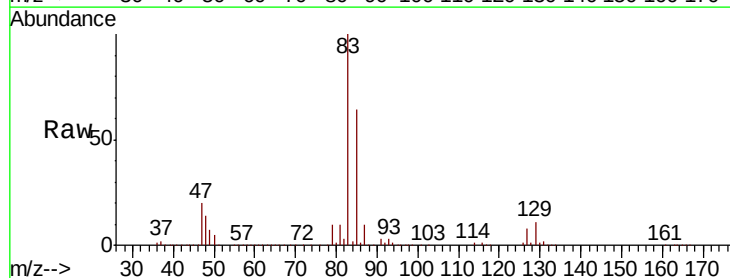
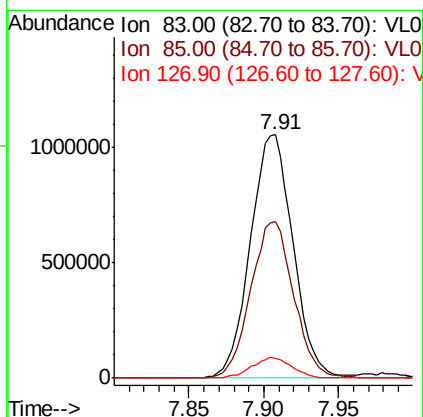
RT: 7.91 min Scan# 1546

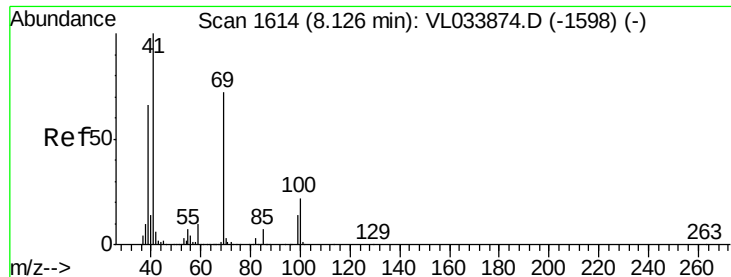
Delta R.T. 0.00 min

Lab File: VL033899.D

Acq: 13 Jun 2019 14:32

Tgt Ion:	83	Resp:	2088116
Ion Ratio		Lower	Upper
83	100		
85	64.2	50.2	75.2
127	8.0	6.5	9.7





#43

Methyl Methacrylate

Concen: 12.462 ppbv

RT: 8.12 min Scan# 1613

Delta R.T. -0.00 min

Lab File: VL033899.D

Acq: 13 Jun 2019 14:32

Instrument :

MSVOA_L

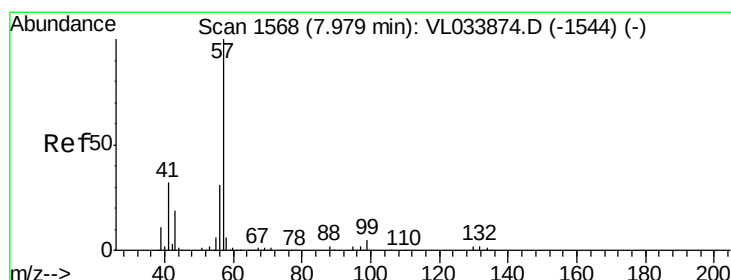
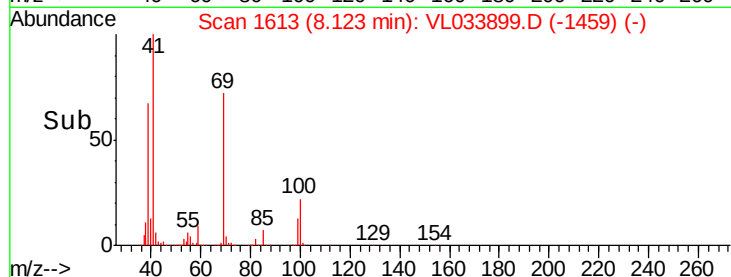
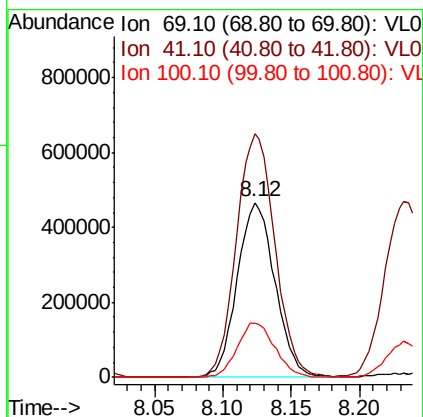
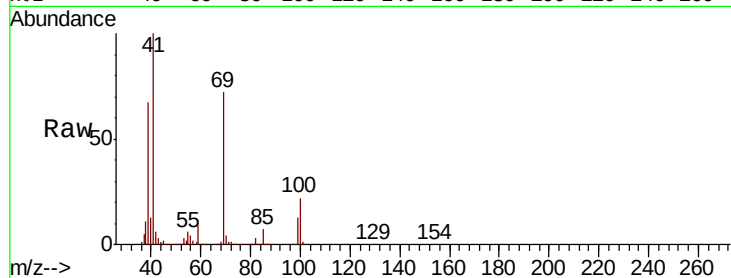
ClientSampleId :

VSTDCCC010

Tot Ion:	69	Resp:	895677
Ion Ratio	Lower	Upper	
69	100		
41	142.4	114.3	171.5
100	30.9	24.8	37.2

Manual Integrations
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#44

2,2,4-Trimethylpentane

Concen: 10.981 ppbv

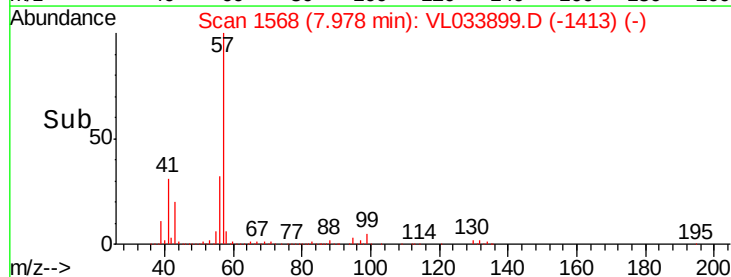
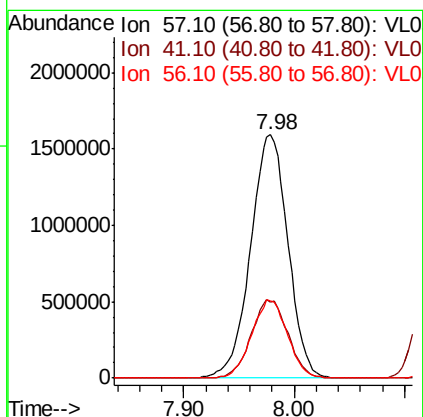
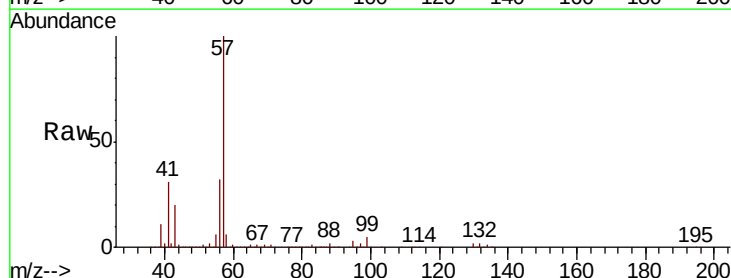
RT: 7.98 min Scan# 1568

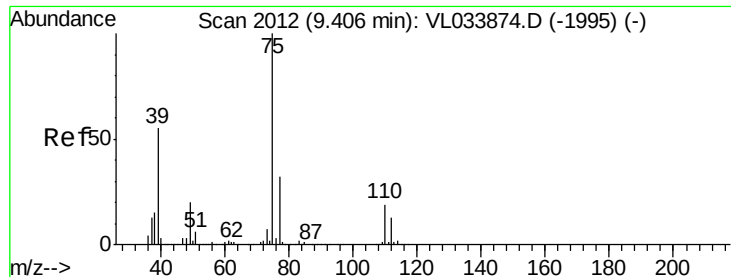
Delta R.T. -0.00 min

Lab File: VL033899.D

Acq: 13 Jun 2019 14:32

Tgt Ion:	57	Resp:	3752452
Ion Ratio	Lower	Upper	
57	100		
41	31.6	26.1	39.1
56	30.9	24.6	36.8





#45

t-1,3-Dichloropropene

Concen: 12.549 ppbv

RT: 9.40 min Scan# 2011

Delta R.T. -0.00 min

Lab File: VL033899.D

Acq: 13 Jun 2019 14:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 75 Resp: 1183449

Ion Ratio Lower Upper

75 100

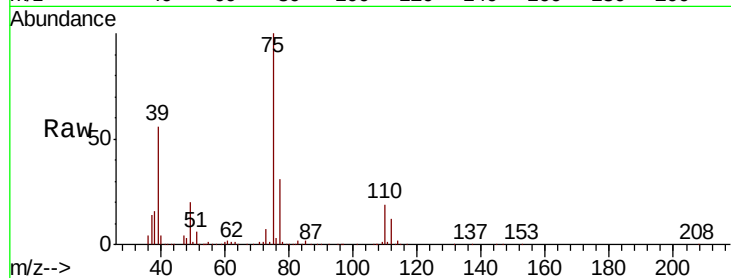
77 31.1 25.4 38.2

Manual Integrations

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Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

9.40

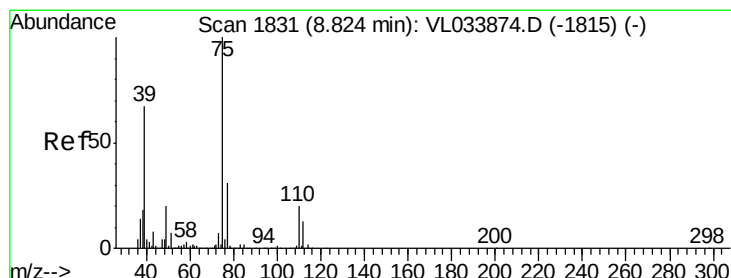
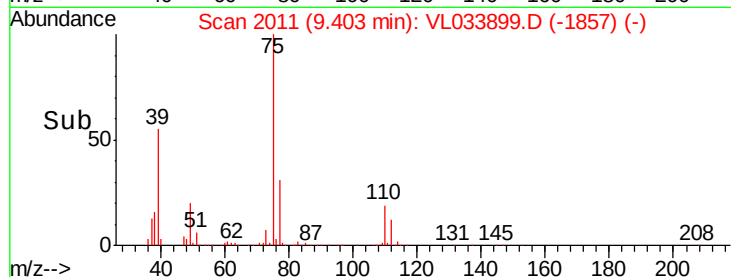
600000

400000

200000

0

Time-->



#46

cis-1,3-Dichloropropene

Concen: 12.213 ppbv

RT: 8.82 min Scan# 1831

Delta R.T. -0.00 min

Lab File: VL033899.D

Acq: 13 Jun 2019 14:32

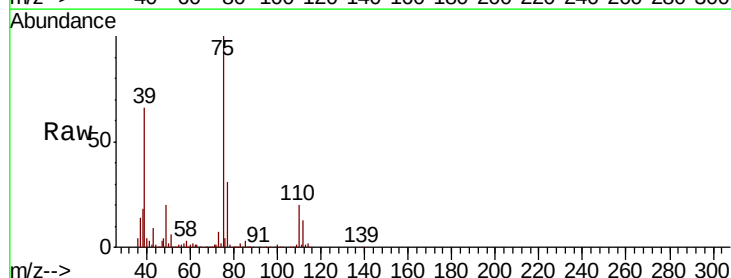
Tgt Ion: 75 Resp: 1319568

Ion Ratio Lower Upper

75 100

39 66.1 53.8 80.8

77 30.8 24.6 36.8



Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0

8.82

800000

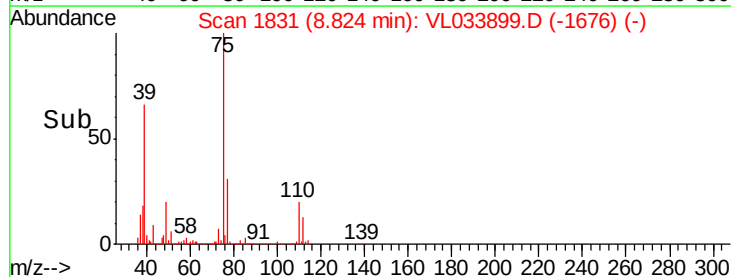
600000

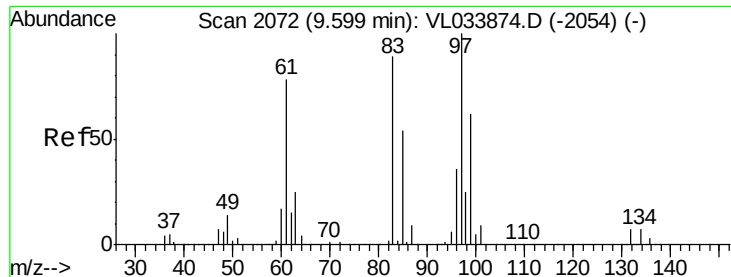
400000

200000

0

Time-->





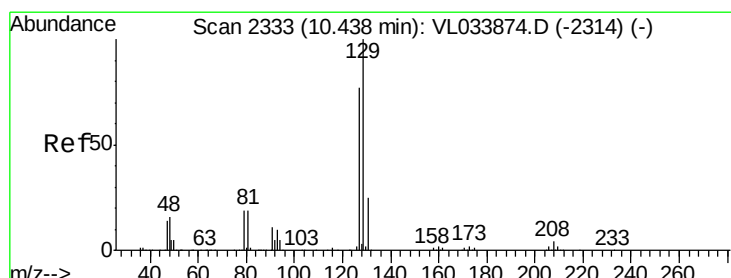
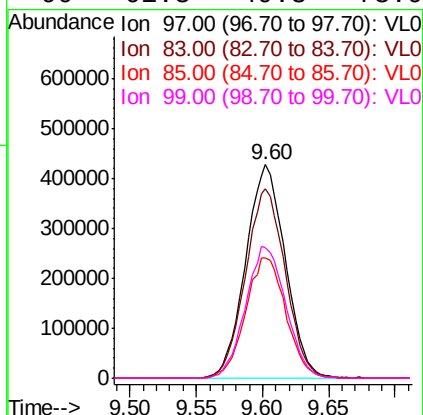
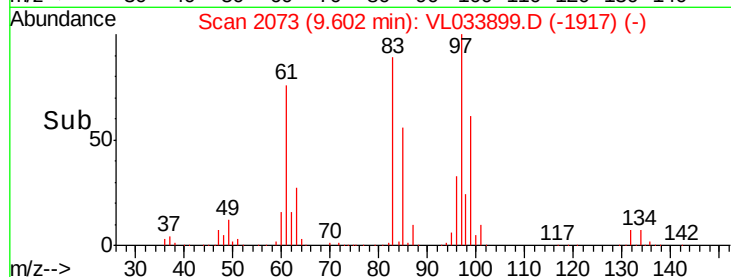
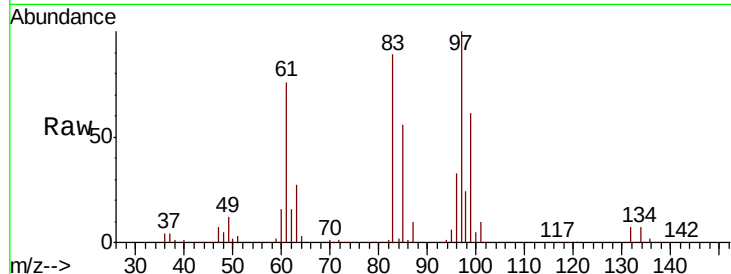
#47
1,1,2-Trichloroethane
Concen: 10.040 ppbv
RT: 9.60 min Scan# 2073
Delta R.T. 0.00 min
Lab File: VL033899.D
Acq: 13 Jun 2019 14:32

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ion	Ratio	Lower	Upper
97	100			
83	88.9	70.9	106.3	
85	56.2	43.0	64.6	
99	61.3	49.3	73.9	

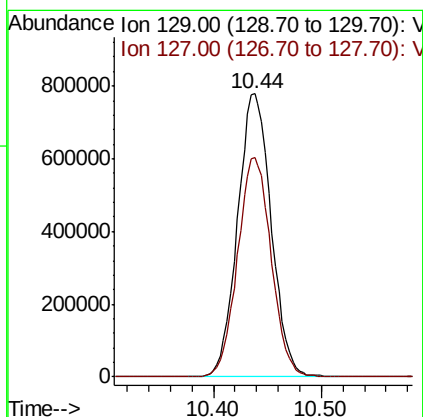
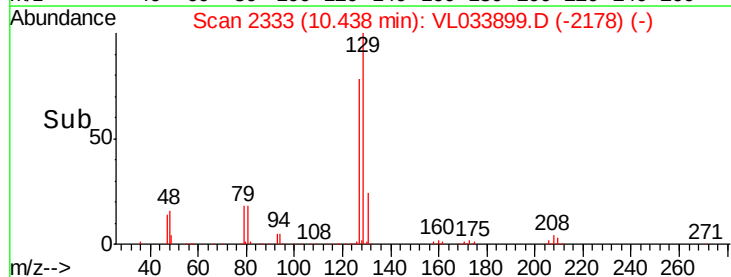
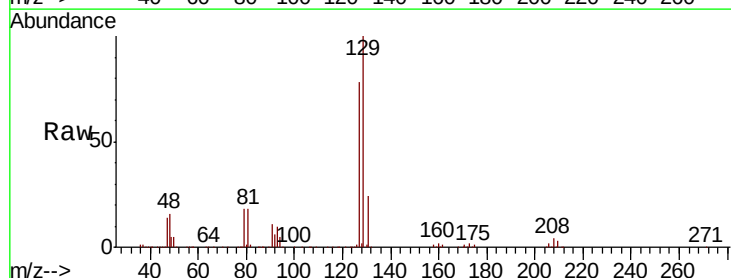
Manual Integrations
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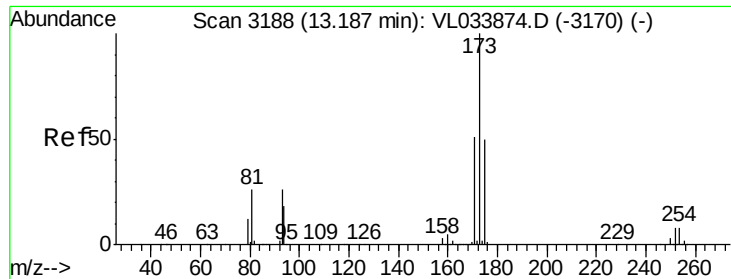
MMDadoda
6/17/2019 12:37:02 AM



#48
Dibromochloromethane
Concen: 10.642 ppbv
RT: 10.44 min Scan# 2333
Delta R.T. -0.00 min
Lab File: VL033899.D
Acq: 13 Jun 2019 14:32

Tgt Ion	Ion	Ratio	Lower	Upper
129	100			
127	77.4	38.6	115.7	





#49

Bromoform

Concen: 10.935 ppbv

RT: 13.19 min Scan# 3188

Delta R.T. -0.00 min

Lab File: VL033899.D

Acq: 13 Jun 2019 14:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:173 Resp: 1533841

Ion Ratio Lower Upper

173 100

175 48.9 39.6 59.4

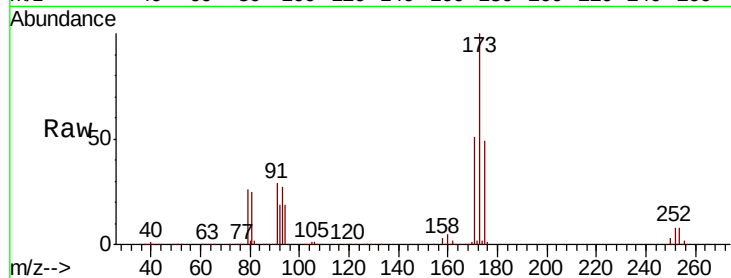
171 52.1 41.8 62.8

Manual Integrations

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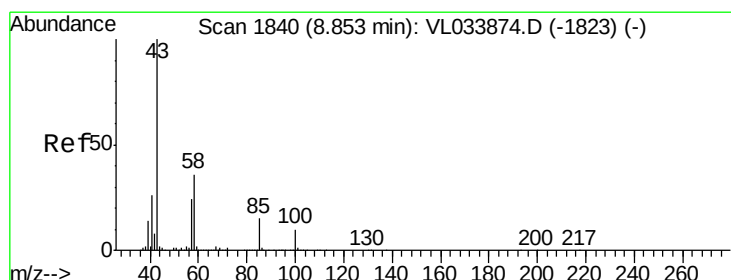
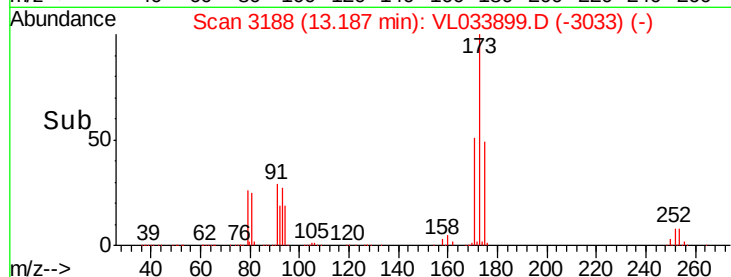
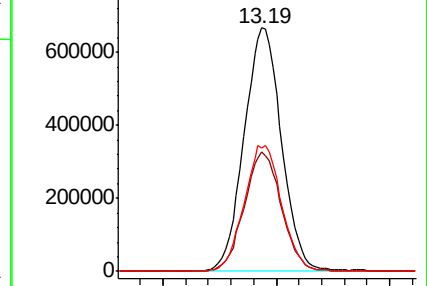
6/17/2019 12:37:02 AM



Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 10.648 ppbv

RT: 8.85 min Scan# 1840

Delta R.T. -0.00 min

Lab File: VL033899.D

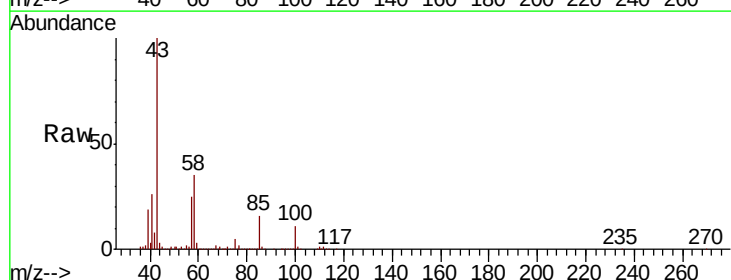
Acq: 13 Jun 2019 14:32

Tgt Ion: 43 Resp: 2253330

Ion Ratio Lower Upper

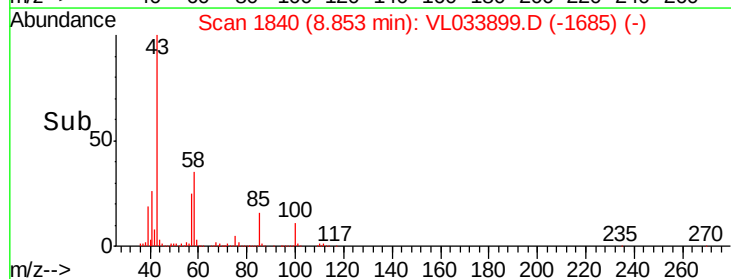
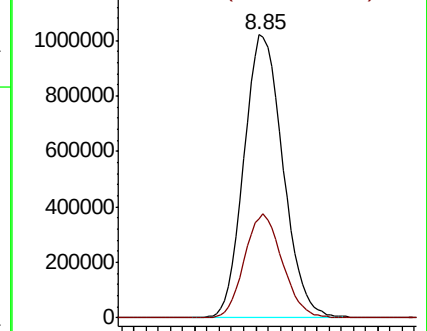
43 100

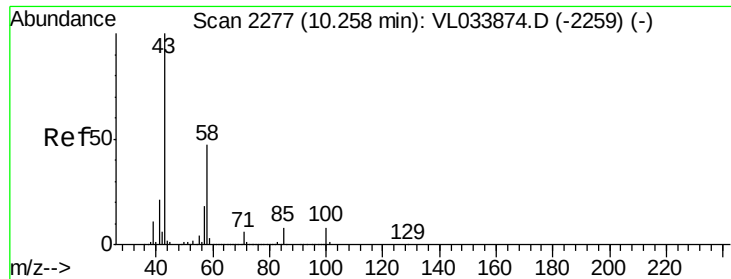
58 35.9 28.6 42.8



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





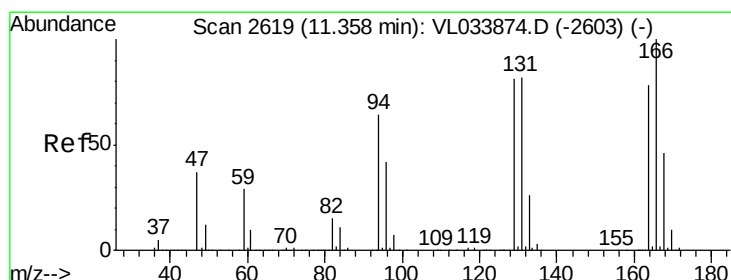
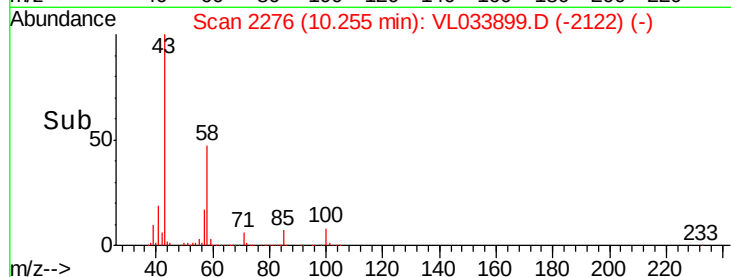
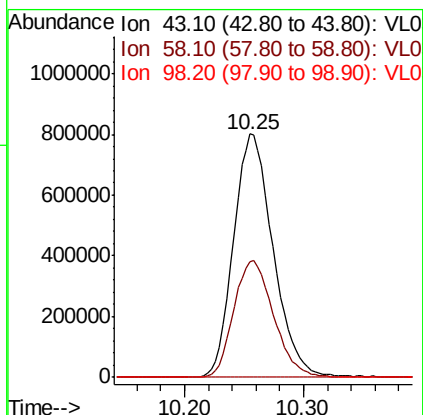
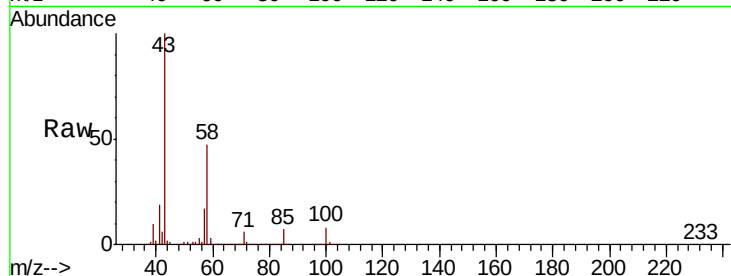
#51
2-Hexanone
Concen: 11.101 ppbv
RT: 10.25 min Scan# 2276
Delta R.T. -0.00 min
Lab File: VL033899.D
Acq: 13 Jun 2019 14:32

Instrument :
MSVOA_L
ClientSampled :
VSTDCCC010

Tot Ion: 43 Resp: 1834441
Ion Ratio Lower Upper
43 100
58 48.6 38.2 57.4
98 0.2 0.2 0.2

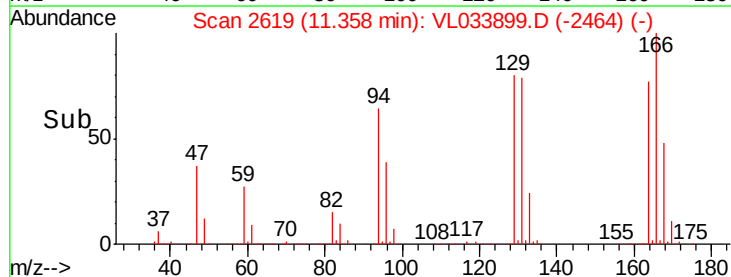
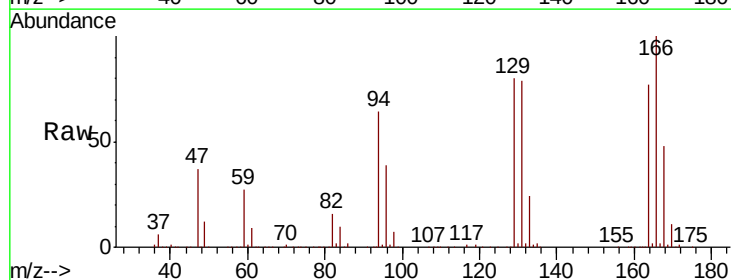
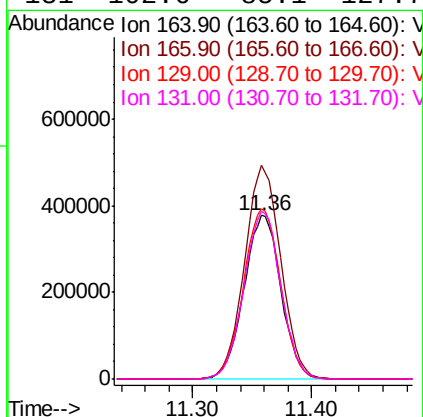
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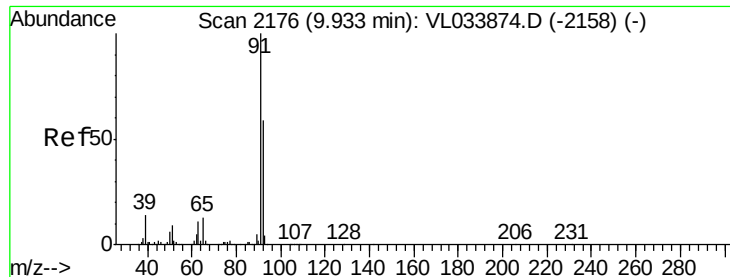
MMDadoda
6/17/2019 12:37:02 AM



#52
Tetrachloroethene
Concen: 11.991 ppbv
RT: 11.36 min Scan# 2619
Delta R.T. -0.00 min
Lab File: VL033899.D
Acq: 13 Jun 2019 14:32

Tgt Ion:164 Resp: 810818
Ion Ratio Lower Upper
164 100
166 130.6 103.1 154.7
129 104.3 83.9 125.9
131 102.6 85.1 127.7





#53

Toluene

Concen: 11.590 ppbv

RT: 9.93 min Scan# 2176

Delta R.T. -0.00 min

Lab File: VL033899.D

Acq: 13 Jun 2019 14:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 91 Resp: 2464588

Ion Ratio Lower Upper

91 100

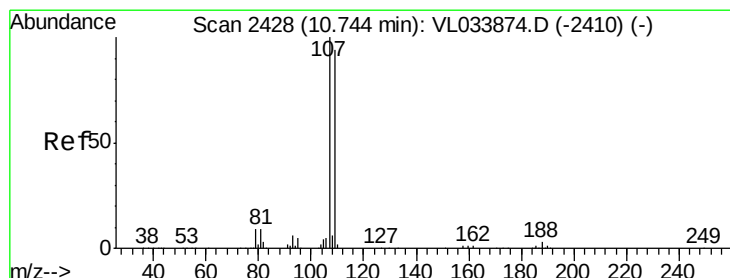
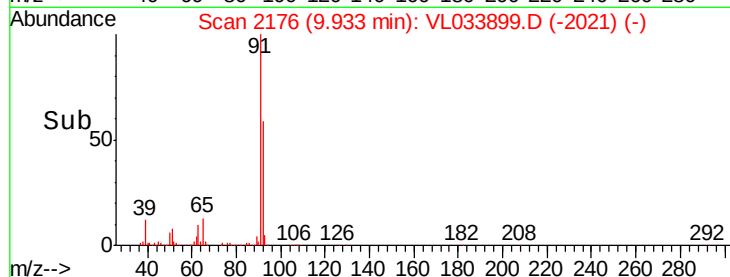
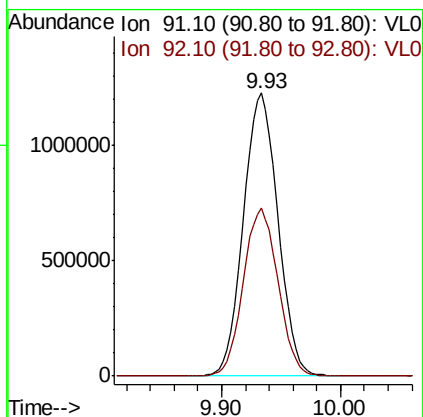
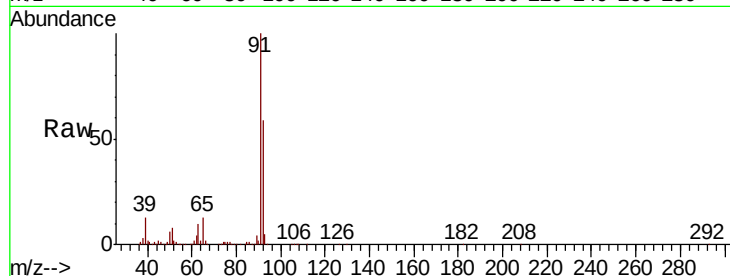
92 59.6 47.0 70.6

Manual Integrations

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#54

1,2-Dibromoethane

Concen: 10.542 ppbv

RT: 10.74 min Scan# 2428

Delta R.T. -0.00 min

Lab File: VL033899.D

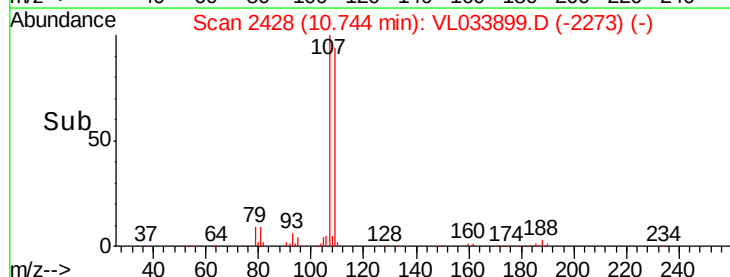
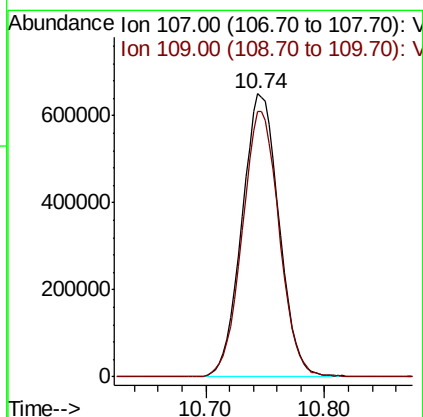
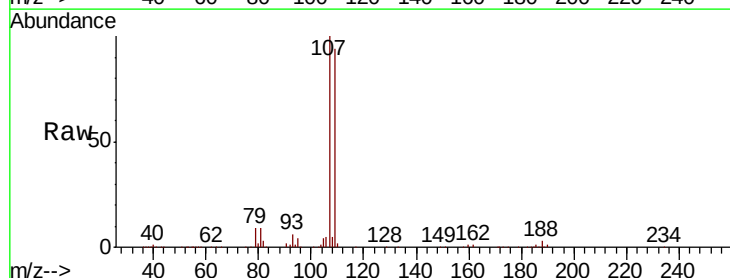
Acq: 13 Jun 2019 14:32

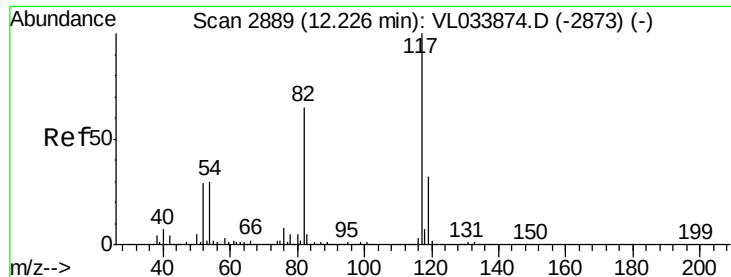
Tgt Ion: 107 Resp: 1405076

Ion Ratio Lower Upper

107 100

109 93.6 74.9 112.3





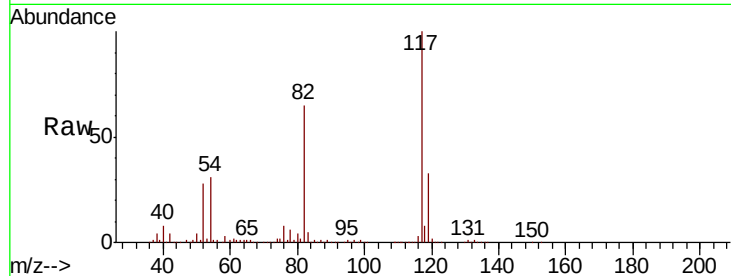
#55
Chlorobenzene-d5
Concen: 10.000 ppbv m
RT: 12.23 min Scan# 2889
Delta R.T. -0.00 min
Lab File: VL033899.D
Acq: 13 Jun 2019 14:32

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

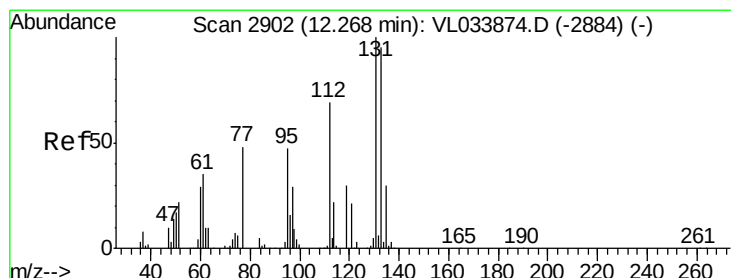
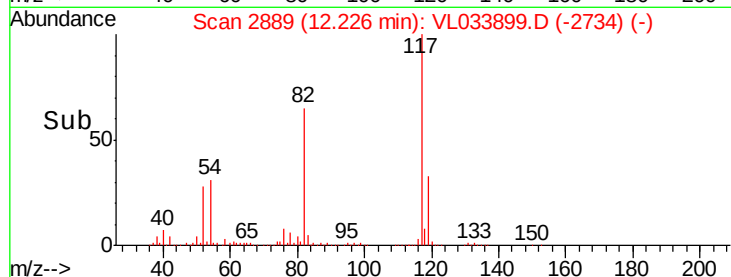
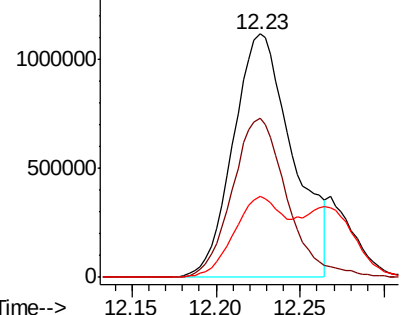
Tot Ion:117 Resp: 2747645
Ion Ratio Lower Upper
117 100
82 60.3 50.2 75.2
119 28.3 24.8 37.2

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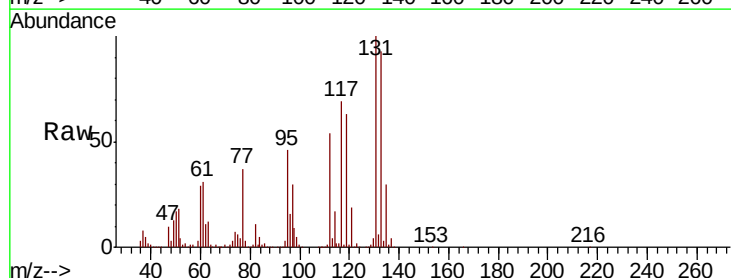


Abundance Ion 117.10 (116.80 to 117.80): V
1500000 Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V

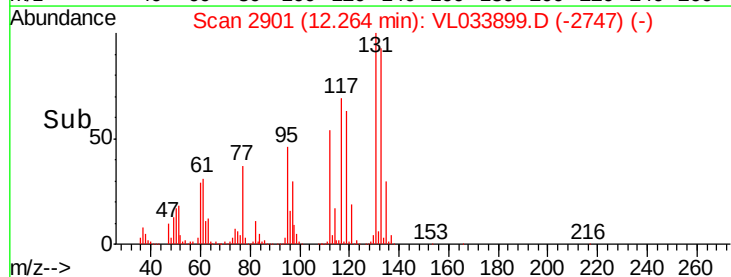
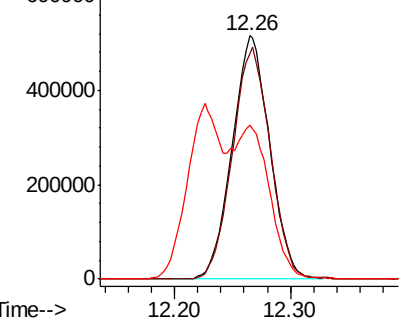


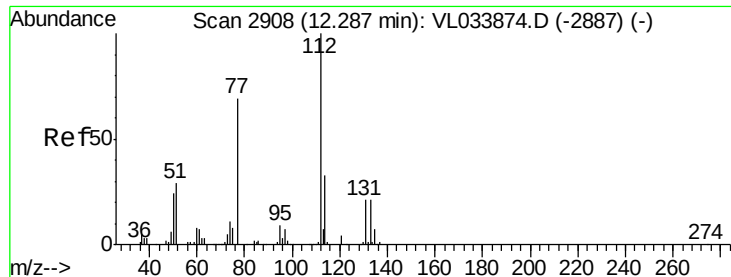
#56
1,1,1,2-Tetrachloroethane
Concen: 9.681 ppbv
RT: 12.26 min Scan# 2901
Delta R.T. -0.00 min
Lab File: VL033899.D
Acq: 13 Jun 2019 14:32

Tgt Ion:131 Resp: 1162047
Ion Ratio Lower Upper
131 100
133 96.3 76.5 114.7
119 57.2 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: 9.749 ppbv

RT: 12.29 min Scan# 2908

Delta R.T. -0.00 min

Lab File: VL033899.D

Acq: 13 Jun 2019 14:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:112 Resp: 2006139

Ion Ratio Lower Upper

112 100

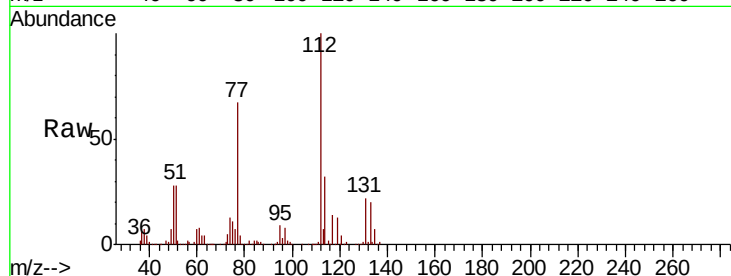
77 66.4 55.8 83.6

114 32.3 29.8 36.4

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MMDadoda

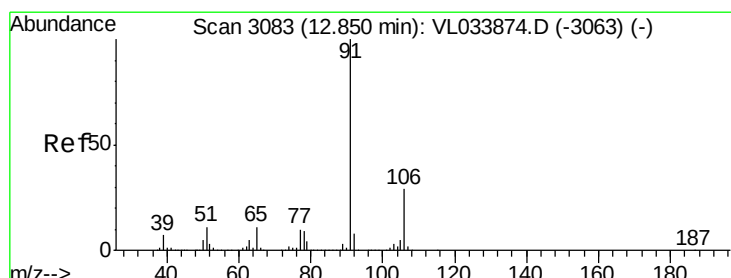
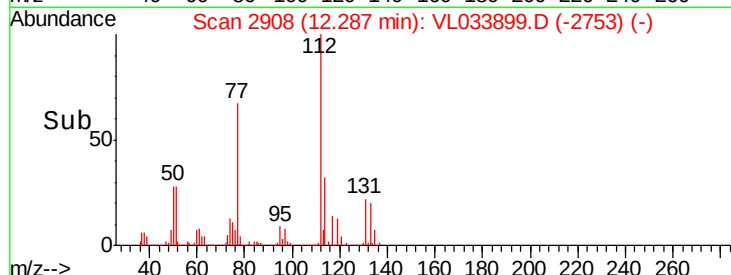
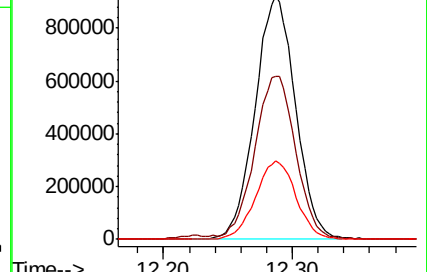
6/17/2019 12:37:02 AM



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 10.779 ppbv

RT: 12.85 min Scan# 3083

Delta R.T. -0.00 min

Lab File: VL033899.D

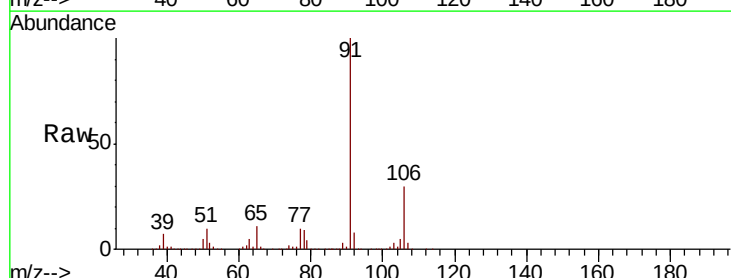
Acq: 13 Jun 2019 14:32

Tgt Ion: 91 Resp: 3339003

Ion Ratio Lower Upper

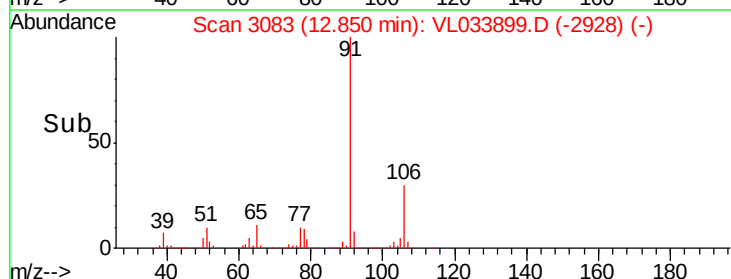
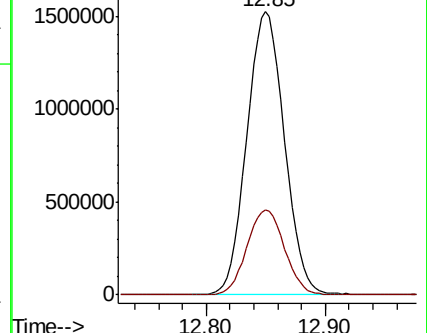
91 100

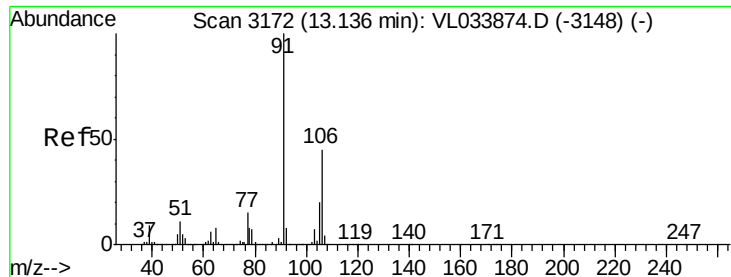
106 30.1 23.0 34.6



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





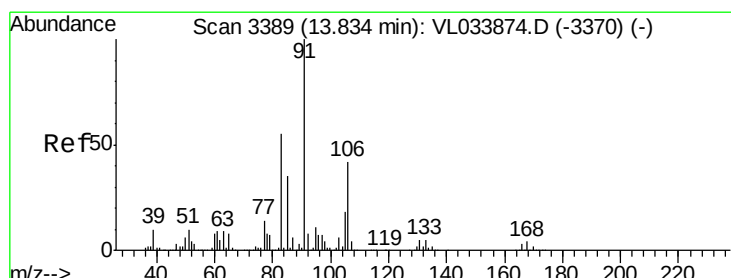
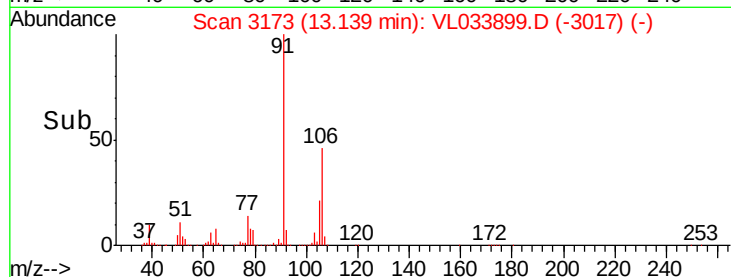
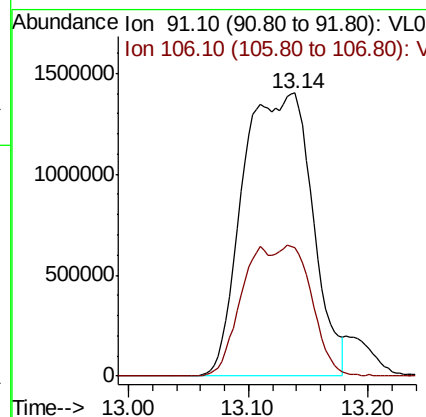
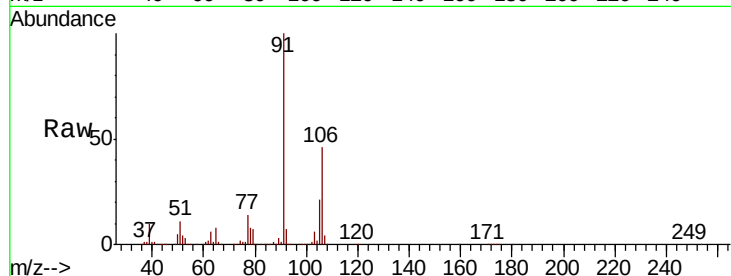
#59
m/p-Xylene
Concen: 19.973 ppbv m
RT: 13.14 min Scan# 3173
Delta R.T. 0.00 min
Lab File: VL033899.D
Acq: 13 Jun 2019 14:32

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 91 Resp: 5626483
Ion Ratio Lower Upper
91 100
106 45.4 35.8 53.8

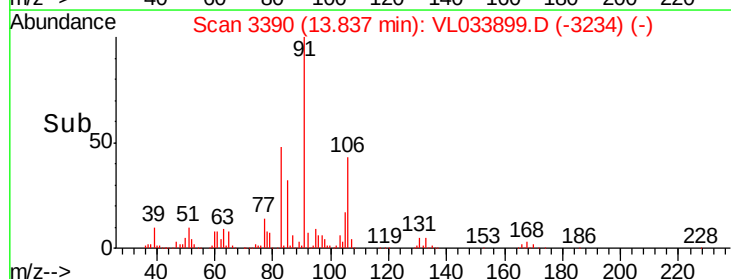
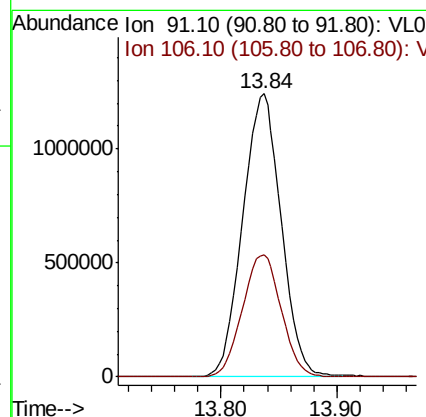
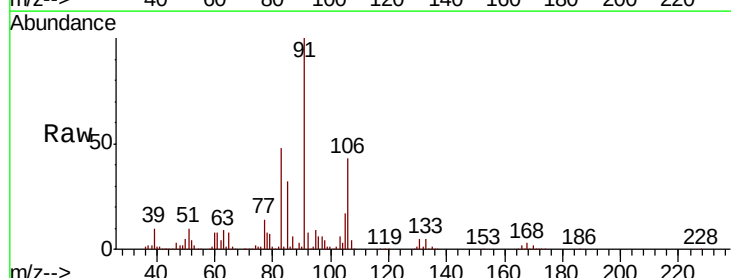
Manual Integrations
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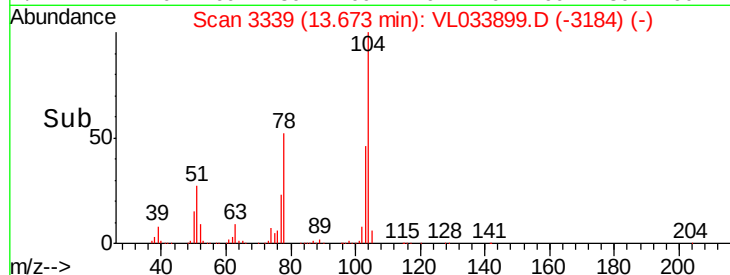
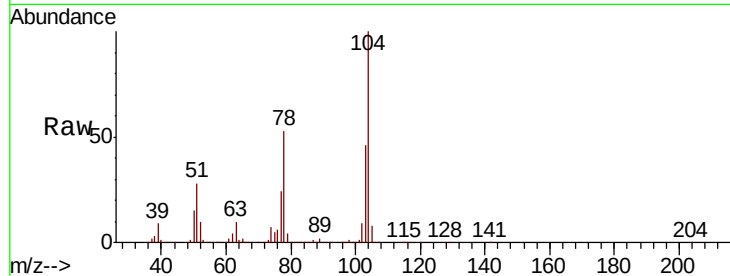
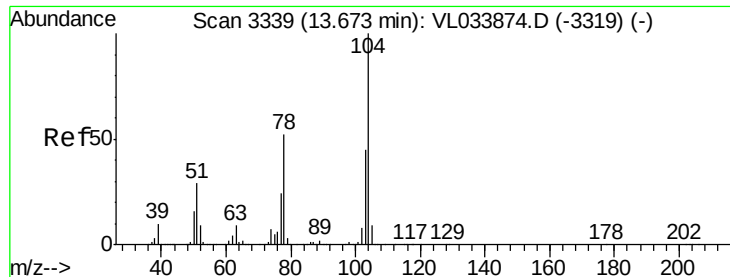
MMDadoda
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#60
o-Xylene
Concen: 9.814 ppbv
RT: 13.84 min Scan# 3390
Delta R.T. 0.00 min
Lab File: VL033899.D
Acq: 13 Jun 2019 14:32

Tgt Ion: 91 Resp: 2854475
Ion Ratio Lower Upper
91 100
106 44.0 21.7 65.1





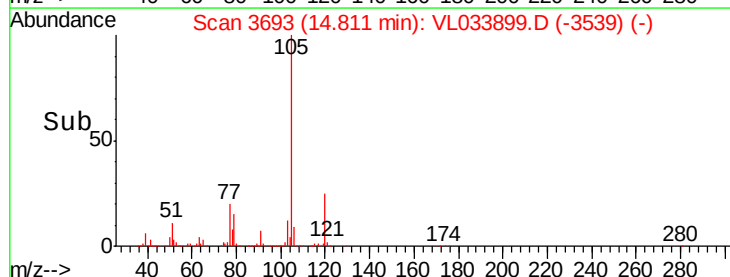
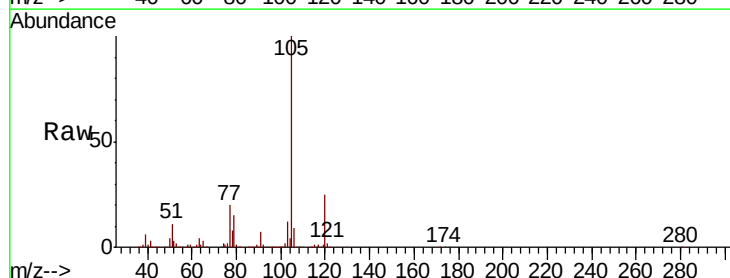
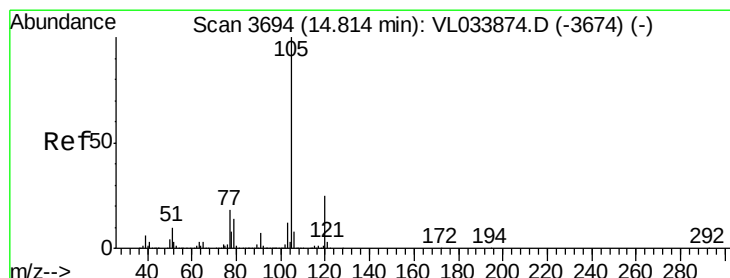
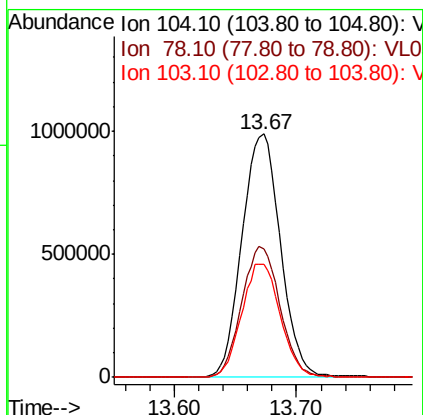
#61
Stvrene
Concen: 11.457 ppbv
RT: 13.67 min Scan# 3339
Delta R.T. -0.00 min
Lab File: VL033899.D
Acq: 13 Jun 2019 14:32

Instrument :
MSVOA_L
ClientSampled :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
104	100		
78	53.5	43.4	65.0
103	47.0	37.6	56.4

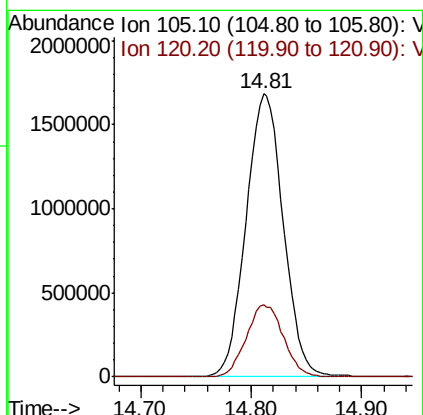
Manual Integrations
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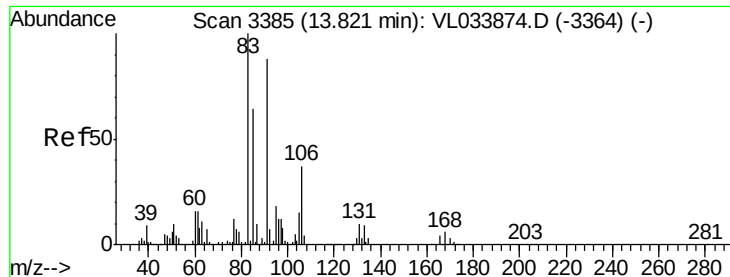
MMDadoda
6/17/2019 12:37:02 AM



#62
Isopropylbenzene
Concen: 10.045 ppbv
RT: 14.81 min Scan# 3693
Delta R.T. -0.00 min
Lab File: VL033899.D
Acq: 13 Jun 2019 14:32

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.7	20.3	30.5





#63

1,1,2,2-Tetrachloroethane

Concen: 9.305 ppbv

RT: 13.82 min Scan# 3386

Delta R.T. 0.00 min

Lab File: VL033899.D

Acq: 13 Jun 2019 14:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 83 Resp: 2037192

Ion Ratio Lower Upper

83 100

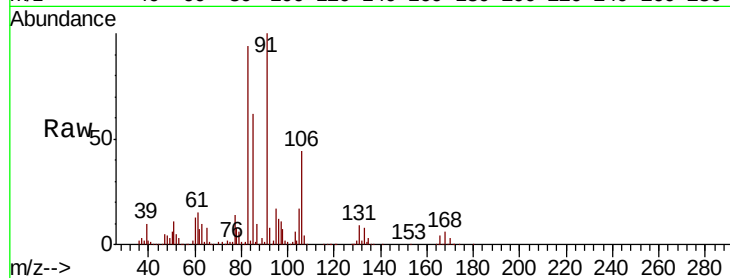
131 9.7 4.8 14.4

85 64.8 32.1 96.3

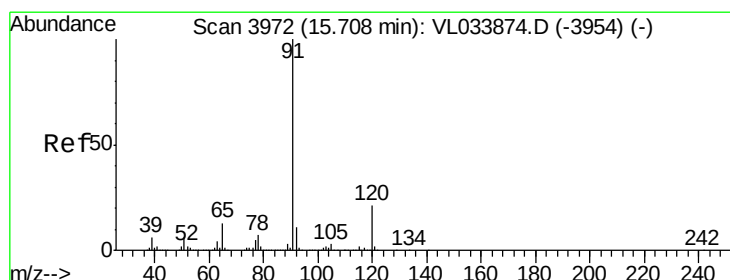
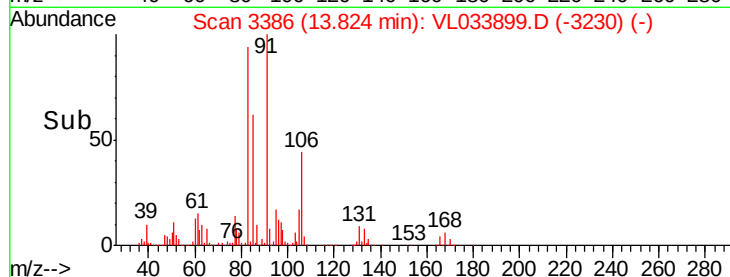
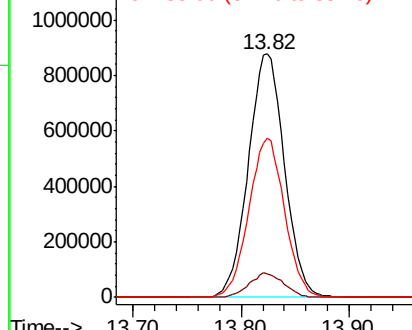
Manual Integrations
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6/17/2019 12:37:02 AM



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: 10.089 ppbv

RT: 15.71 min Scan# 3972

Delta R.T. -0.00 min

Lab File: VL033899.D

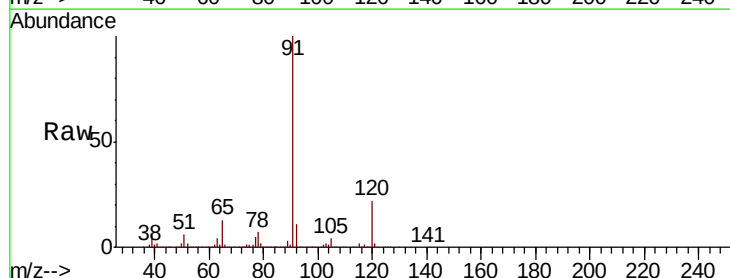
Acq: 13 Jun 2019 14:32

Tgt Ion:120 Resp: 1012861

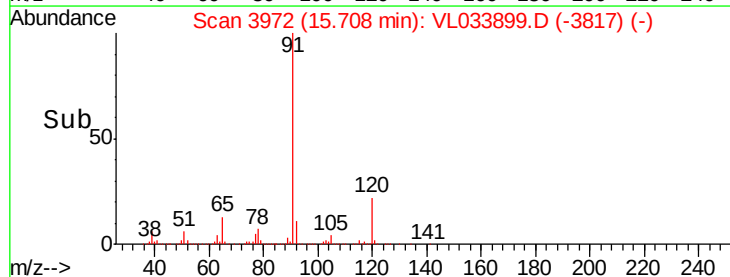
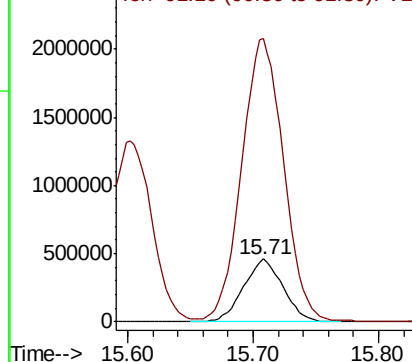
Ion Ratio Lower Upper

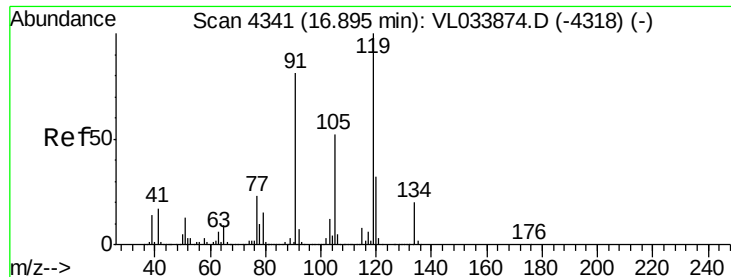
120 100

91 478.4 387.0 580.6



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





#65

tert-Butylbenzene

Concen: 9.937 ppbv

RT: 16.89 min Scan# 4341

Delta R.T. -0.00 min

Lab File: VL033899.D

Acq: 13 Jun 2019 14:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:119 Resp: 3604464

Ion Ratio Lower Upper

119 100

91 83.1 66.6 100.0

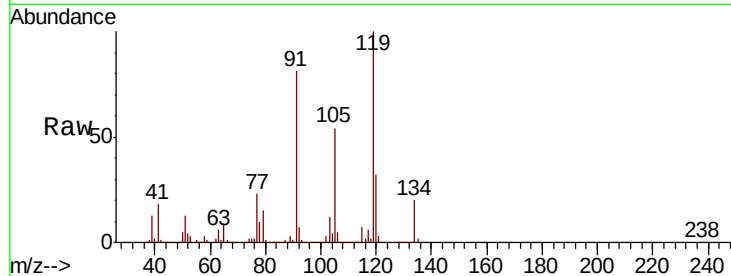
134 19.6 15.5 23.3

Manual Integrations

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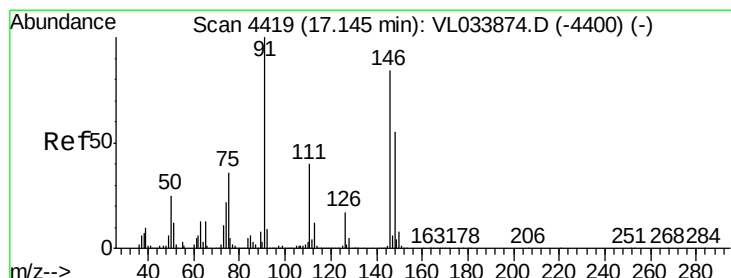
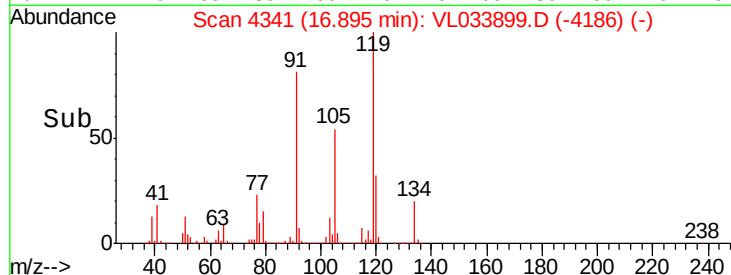
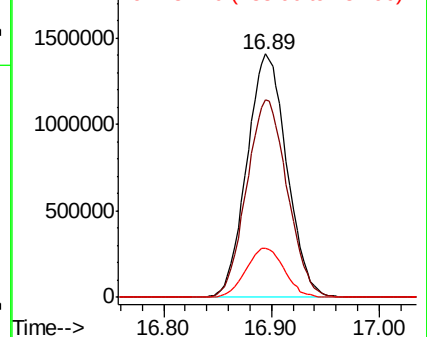
6/17/2019 12:37:02 AM



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: 11.294 ppbv

RT: 17.14 min Scan# 4418

Delta R.T. -0.00 min

Lab File: VL033899.D

Acq: 13 Jun 2019 14:32

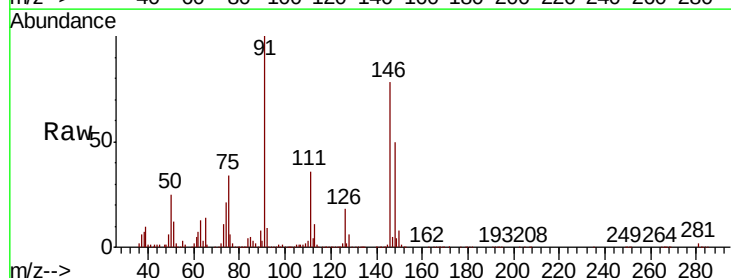
Tgt Ion: 91 Resp: 2076038

Ion Ratio Lower Upper

91 100

126 17.4 13.8 20.6

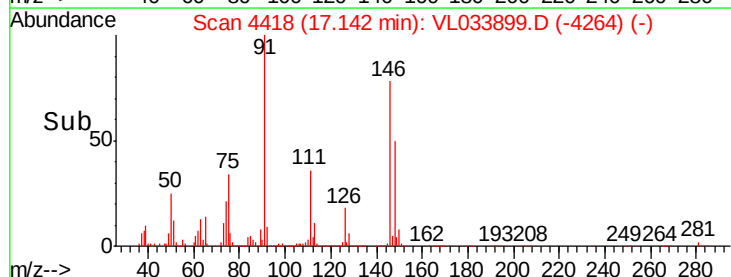
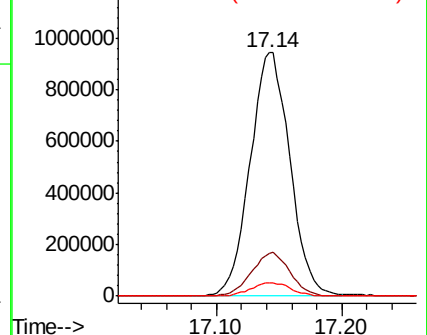
128 5.7 4.4 6.6

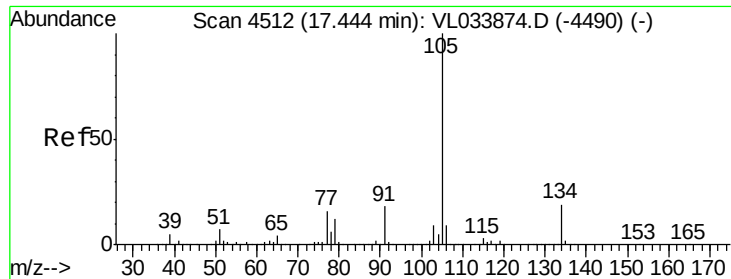


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





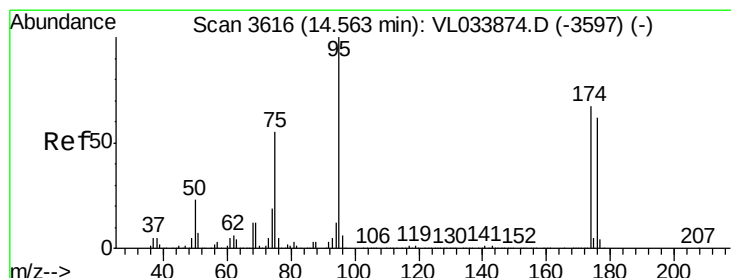
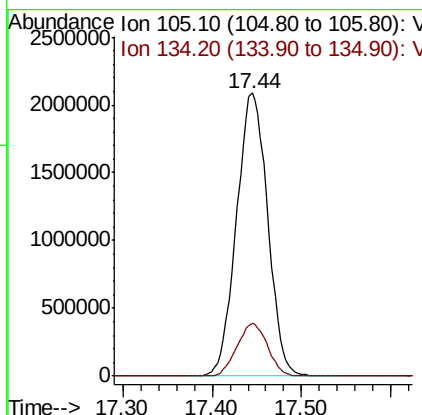
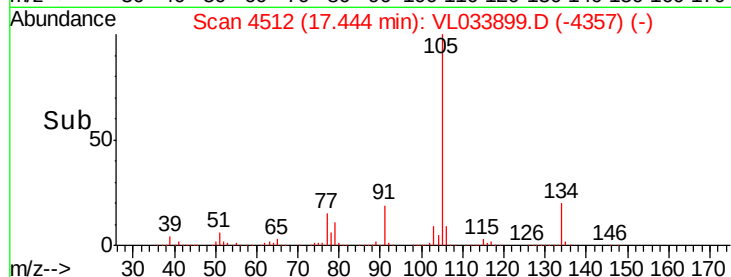
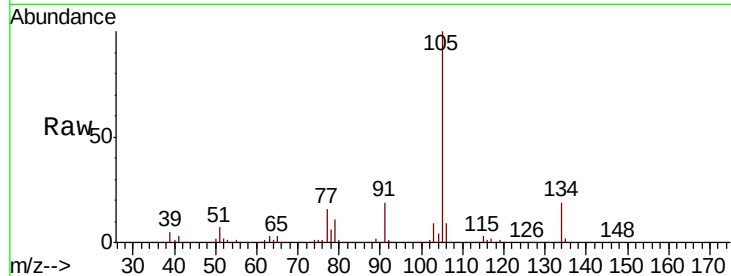
#67
 sec-Butylbenzene
 Concen: 9.934 ppbv
 RT: 17.44 min Scan# 4512
 Delta R.T. -0.00 min
 Lab File: VL033899.D
 Acq: 13 Jun 2019 14:32

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion:105 Resp: 5055114
 Ion Ratio Lower Upper
 105 100
 134 18.4 14.6 22.0

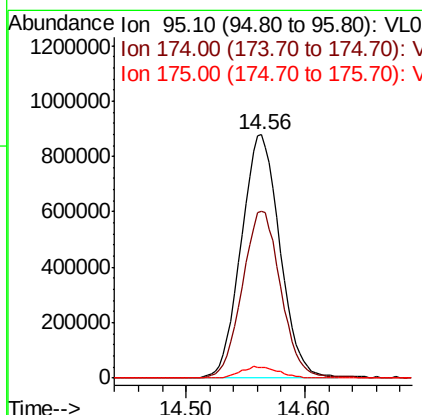
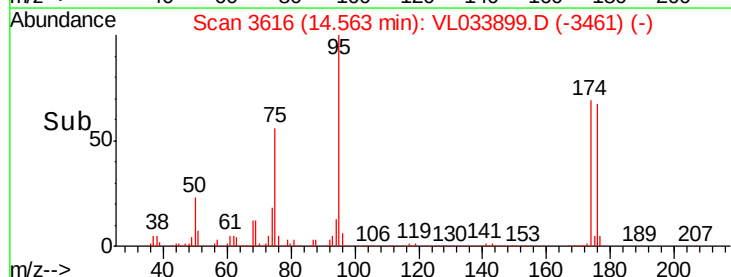
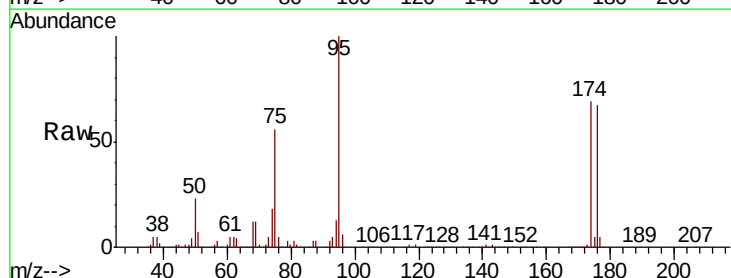
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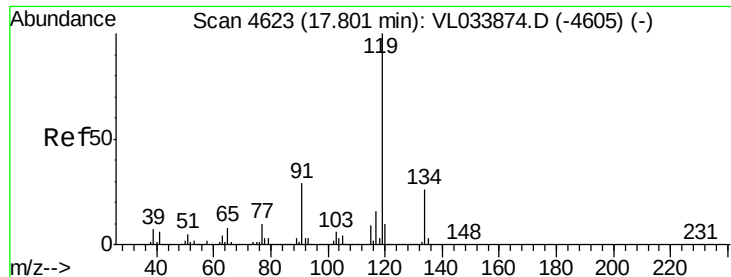
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 6/17/2019 12:37:02 AM



#68
 1-Bromo-4-Fluorobenzene
 Concen: 8.755 ppbv
 RT: 14.56 min Scan# 3616
 Delta R.T. -0.00 min
 Lab File: VL033899.D
 Acq: 13 Jun 2019 14:32

Tgt Ion: 95 Resp: 1975862
 Ion Ratio Lower Upper
 95 100
 174 68.7 54.0 81.0
 175 4.7 3.8 5.8





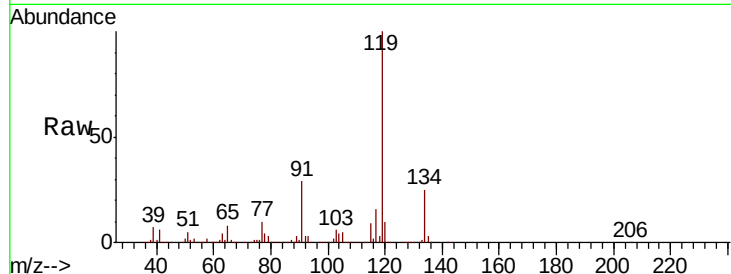
#69
 p-Isopropyltoluene
 Concen: 10.195 ppbv
 RT: 17.80 min Scan# 4623
 Delta R.T. -0.00 min
 Lab File: VL033899.D
 Acq: 13 Jun 2019 14:32

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.2	20.3	30.5
91	29.6	23.8	35.6

Manual Integrations
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MMDadoda
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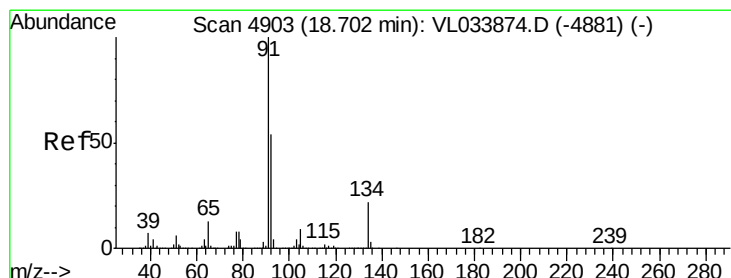
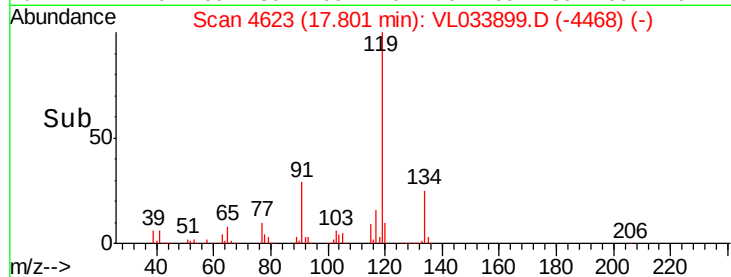
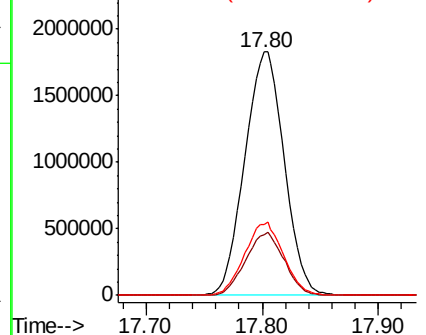


Abundance

Ion 119.10 (118.80 to 119.80): V

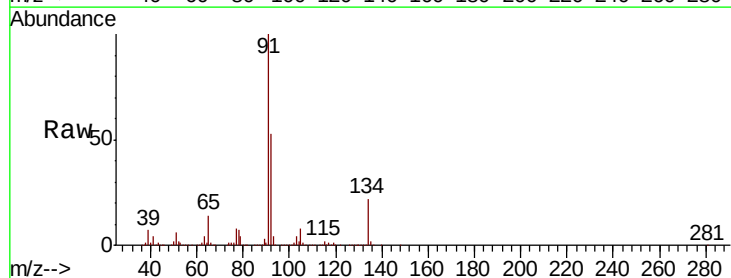
Ion 134.20 (133.90 to 134.90): V

Ion 91.10 (90.80 to 91.80): V



#70
 n-Butylbenzene
 Concen: 9.791 ppbv
 RT: 18.70 min Scan# 4902
 Delta R.T. -0.00 min
 Lab File: VL033899.D
 Acq: 13 Jun 2019 14:32

Tgt Ion	Ratio	Lower	Upper
91	100		
92	53.4	42.5	63.7
134	22.5	17.8	26.6

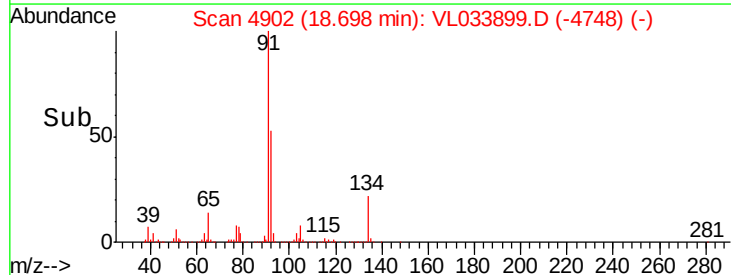
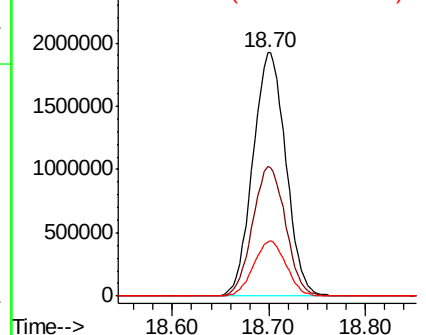


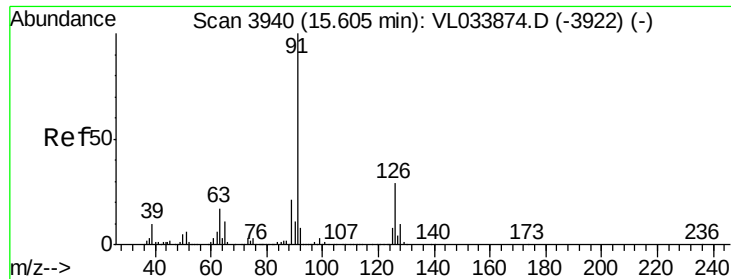
Abundance

Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

Ion 134.20 (133.90 to 134.90): V





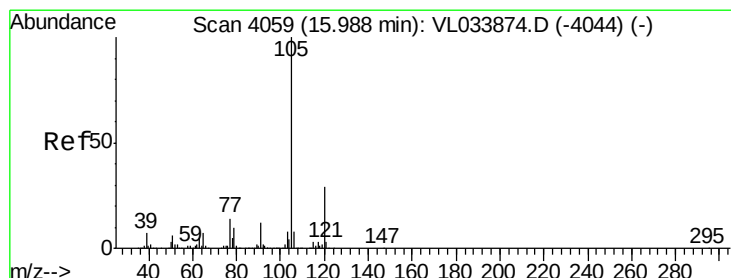
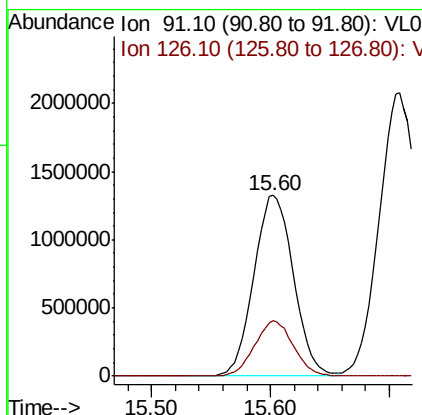
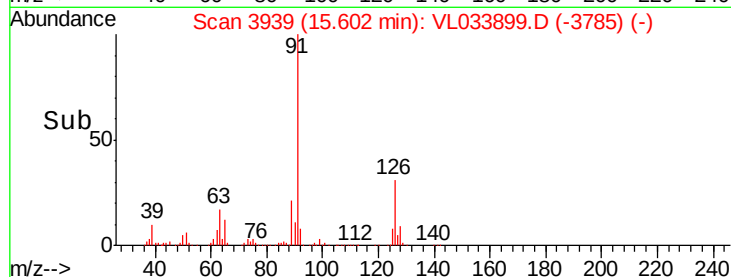
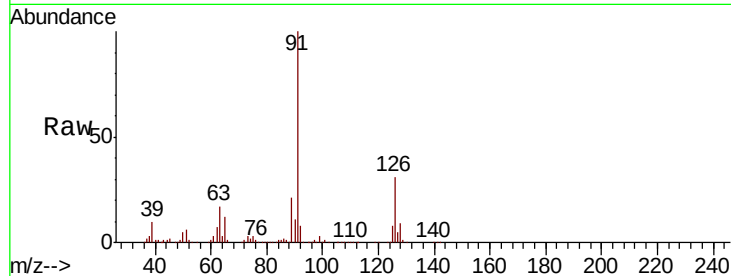
#71
 2-Chlorotoluene
 Concen: 10.576 ppbv
 RT: 15.60 min Scan# 3939
 Delta R.T. -0.00 min
 Lab File: VL033899.D
 Acq: 13 Jun 2019 14:32

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion: 91 Resp: 3054458
 Ion Ratio Lower Upper
 91 100
 126 30.0 12.0 48.2

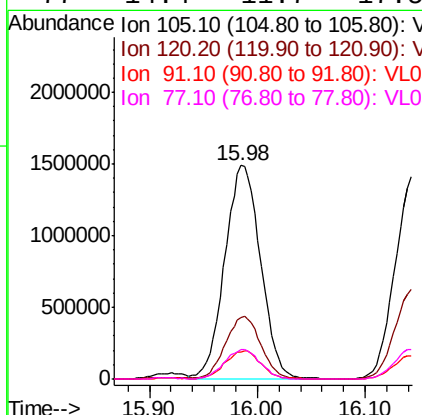
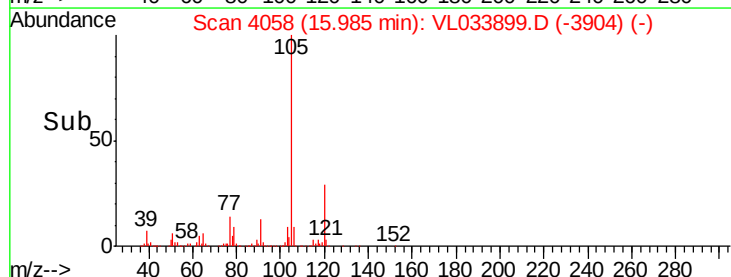
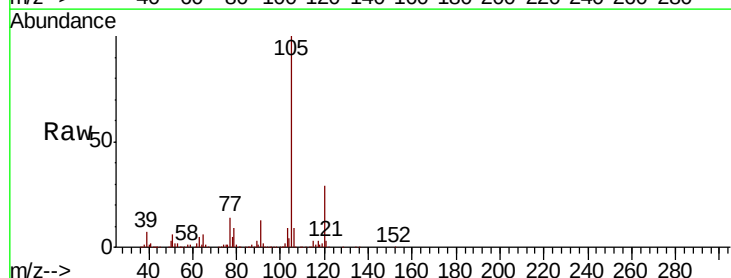
Manual Integrations
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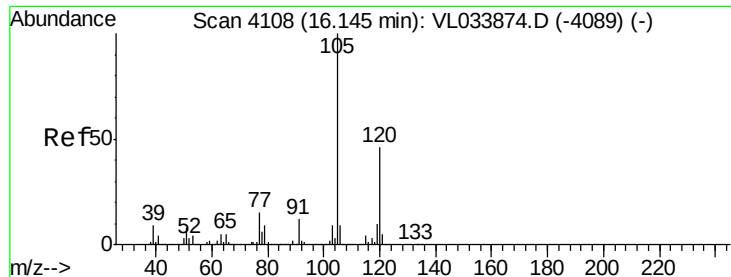
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 6/17/2019 12:37:02 AM



#72
 4-Ethyltoluene
 Concen: 10.368 ppbv
 RT: 15.98 min Scan# 4058
 Delta R.T. -0.00 min
 Lab File: VL033899.D
 Acq: 13 Jun 2019 14:32

Tgt Ion: 105 Resp: 3431722
 Ion Ratio Lower Upper
 105 100
 120 29.2 23.5 35.3
 91 13.2 10.4 15.6
 77 14.4 11.7 17.5





#73

1,3,5-Trimethylbenzene

Concen: 10.005 ppbv

RT: 16.15 min Scan# 4108

Delta R.T. -0.00 min

Lab File: VL033899.D

Acq: 13 Jun 2019 14:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:105 Resp: 3261791

Ion Ratio Lower Upper

105 100

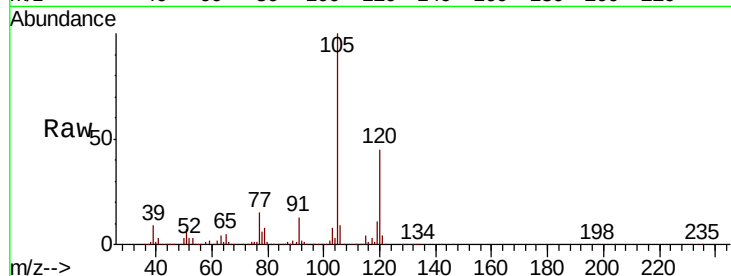
120 44.8 37.1 55.7

Manual Integrations

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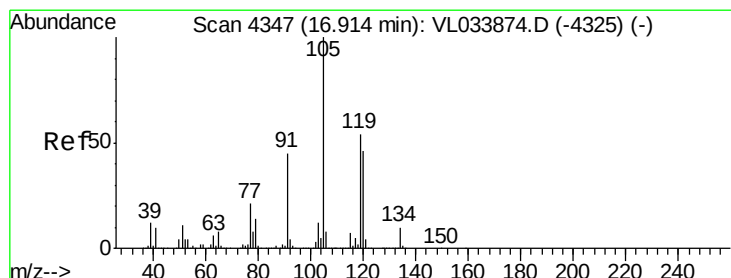
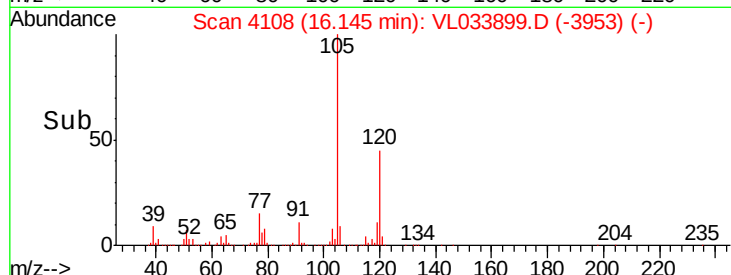
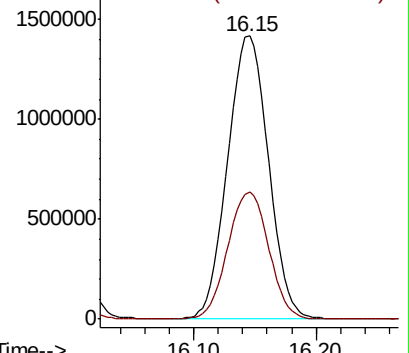
MMDadoda

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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 9.440 ppbv

RT: 16.91 min Scan# 4347

Delta R.T. -0.00 min

Lab File: VL033899.D

Acq: 13 Jun 2019 14:32

Tgt Ion:105 Resp: 3547299

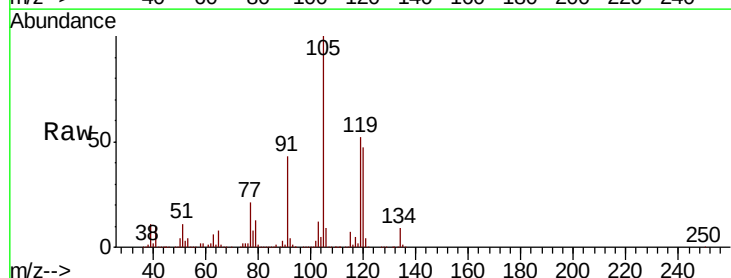
Ion Ratio Lower Upper

105 100

120 47.3 36.7 55.1

91 43.3 35.8 53.8

77 21.3 16.9 25.3

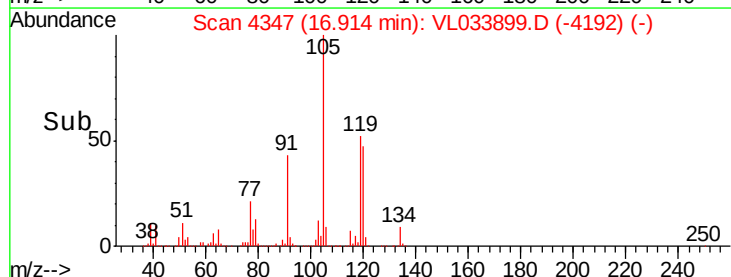
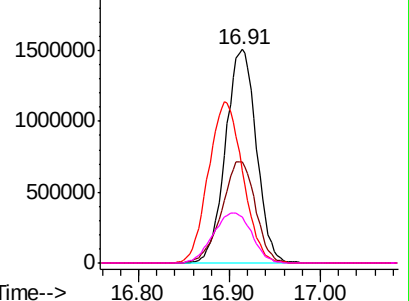


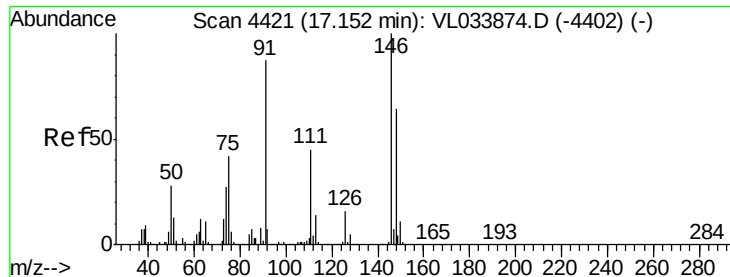
Abundance Ion 105.10 (104.80 to 105.80): V

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





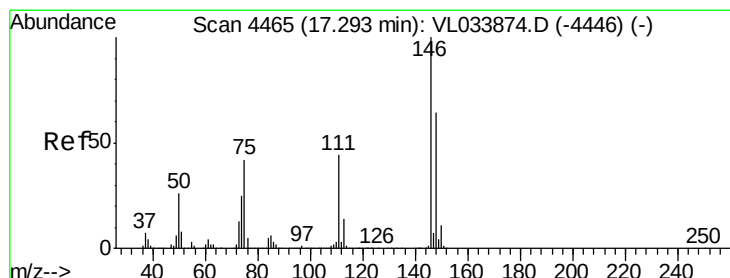
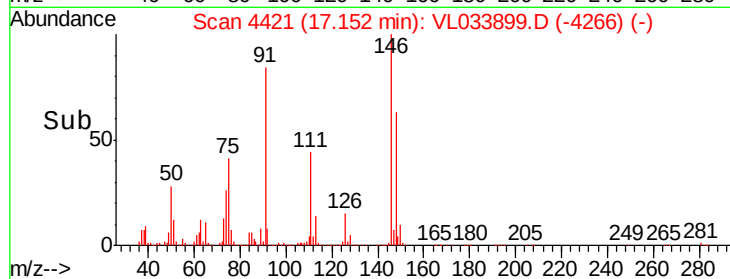
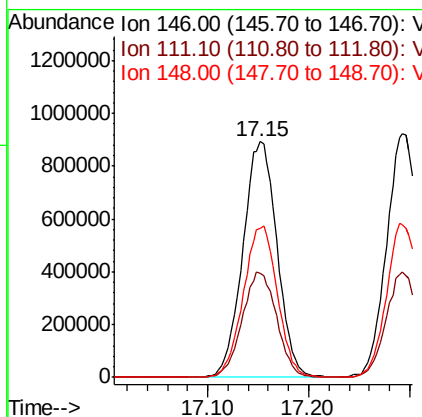
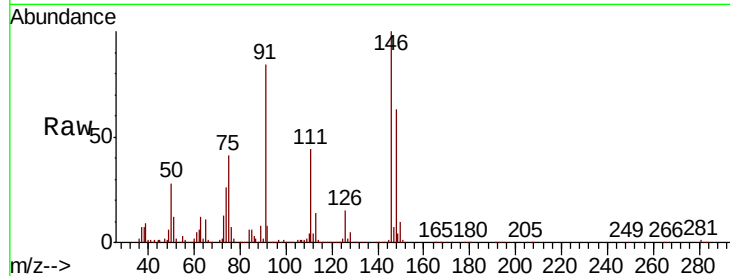
#75
 1,3-Dichlorobenzene
 Concen: 8.907 ppbv
 RT: 17.15 min Scan# 4421
 Delta R.T. -0.00 min
 Lab File: VL033899.D
 Acq: 13 Jun 2019 14:32

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
146	100		
111	45.2	22.8	68.3
148	63.9	32.2	96.6

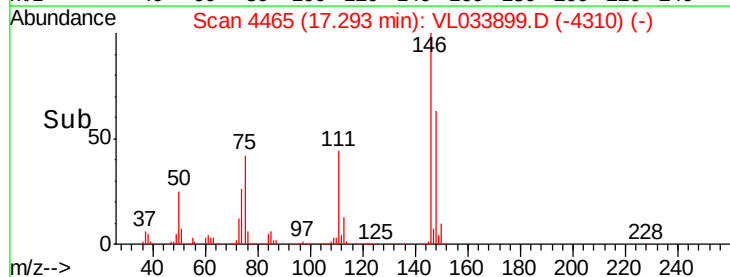
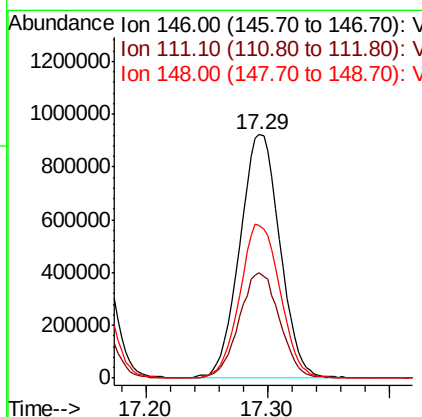
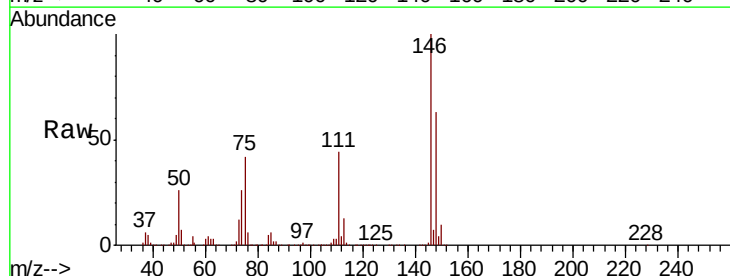
Manual Integrations
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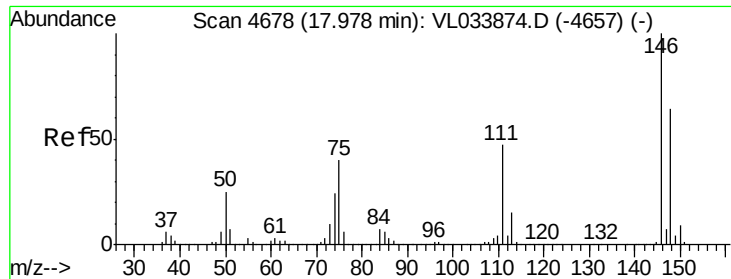
MMDadoda
 6/17/2019 12:37:02 AM



#76
 1,4-Dichlorobenzene
 Concen: 9.632 ppbv
 RT: 17.29 min Scan# 4465
 Delta R.T. -0.00 min
 Lab File: VL033899.D
 Acq: 13 Jun 2019 14:32

Tgt Ion	Ratio	Lower	Upper
146	100		
111	44.0	22.1	66.5
148	64.4	32.4	97.0





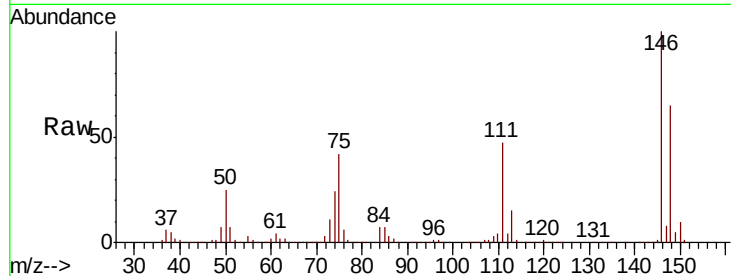
#77
 1,2-Dichlorobenzene
 Concen: 9.319 ppbv
 RT: 17.97 min Scan# 4678
 Delta R.T. -0.01 min
 Lab File: VL033899.D
 Acq: 13 Jun 2019 14:32

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
146	100		
111	47.2	23.4	70.0
148	64.5	31.8	95.4

Manual Integrations
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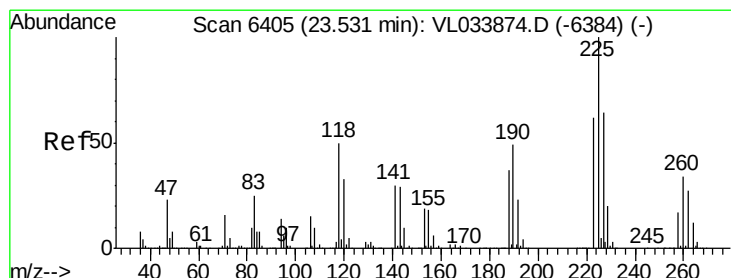
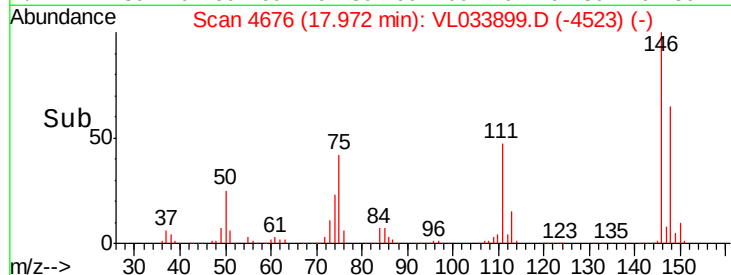
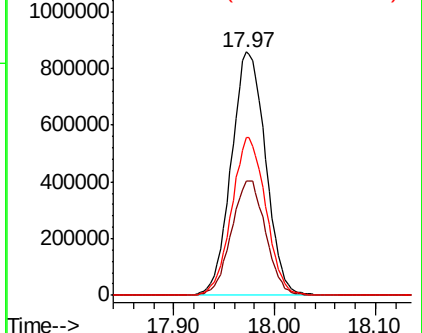


Abundance

Ion 146.00 (145.70 to 146.70): V

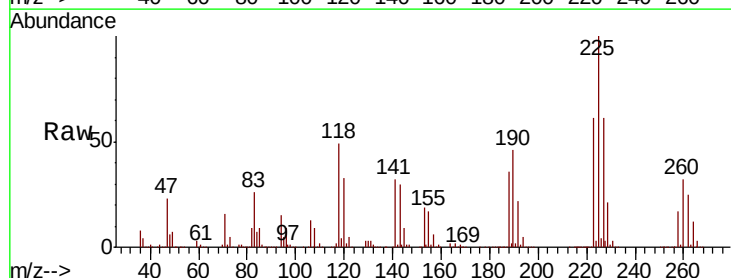
Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#78
 Hexachloro-1,3-Butadiene
 Concen: 7.957 ppbv
 RT: 23.53 min Scan# 6404
 Delta R.T. -0.00 min
 Lab File: VL033899.D
 Acq: 13 Jun 2019 14:32

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.0	50.8	76.2
227	63.8	51.8	77.6

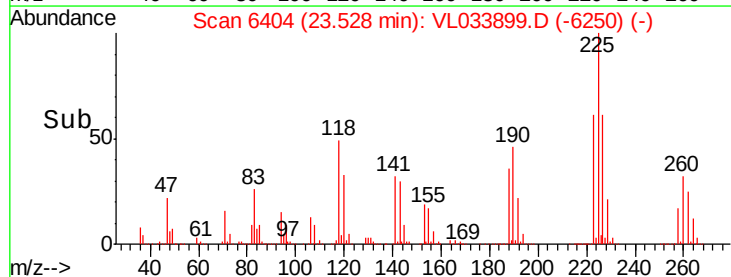
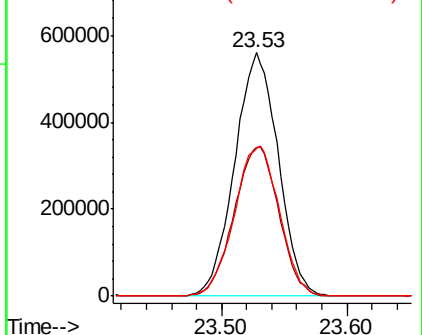


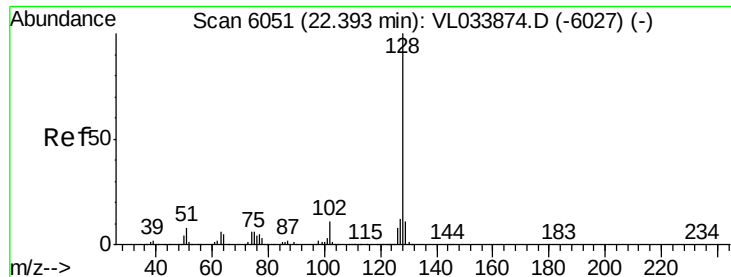
Abundance

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: 10.399 ppbv

RT: 22.39 min Scan# 6051

Delta R.T. -0.00 min

Lab File: VL033899.D

Acq: 13 Jun 2019 14:32

Instrument :

MSVOA_L

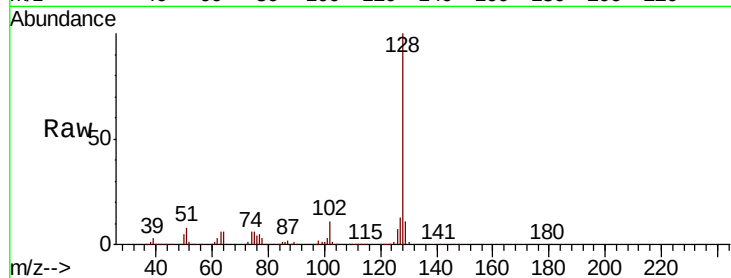
ClientSampleId :

VSTDCCC010

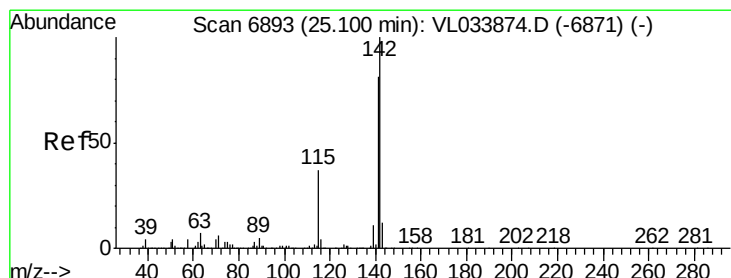
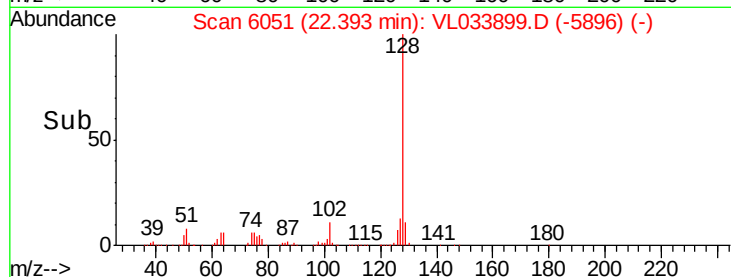
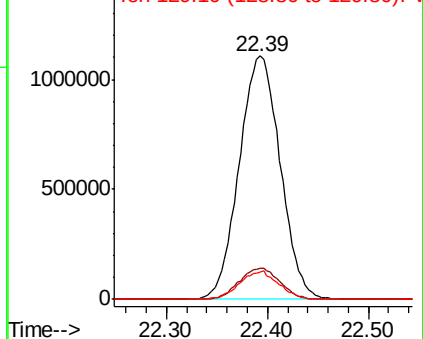
Tot Ion:	128	Resp:	3123444
Ion	Ratio	Lower	Upper
128	100		
127	12.7	9.7	14.5
129	11.1	8.6	12.8

Manual Integrations
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6/17/2019 12:37:02 AM



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: 9.866 ppbv

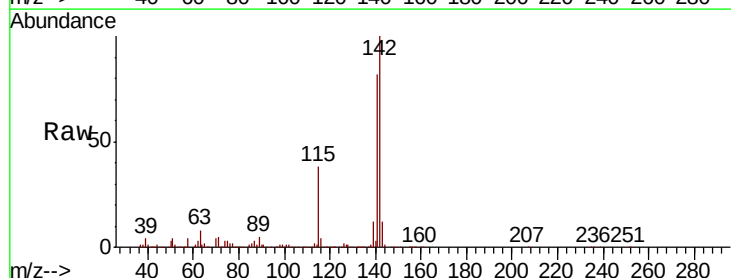
RT: 25.10 min Scan# 6893

Delta R.T. -0.00 min

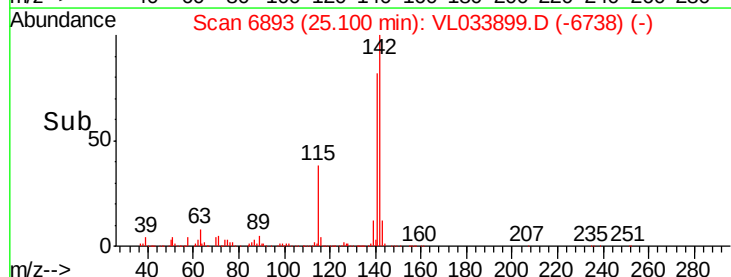
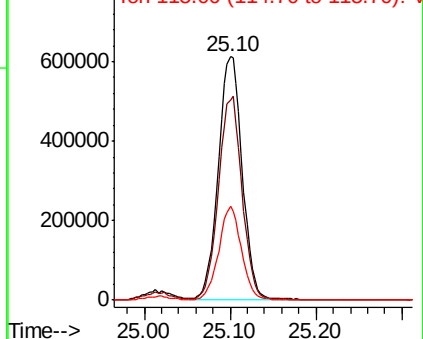
Lab File: VL033899.D

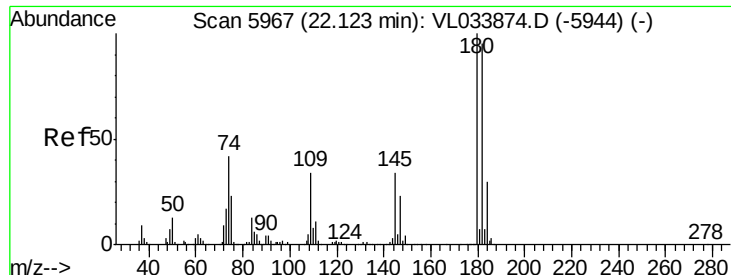
Acq: 13 Jun 2019 14:32

Tgt Ion:	142	Resp:	1182299
Ion	Ratio	Lower	Upper
142	100		
141	83.0	65.7	98.5
115	36.7	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: 9.749 ppbv
 RT: 22.12 min Scan# 5966
 Delta R.T. -0.00 min
 Lab File: VL033899.D
 Acq: 13 Jun 2019 14:32

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.5	76.9	115.3
184	30.4	24.5	36.7

Manual Integrations
 APPROVED

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 6/17/2019 12:37:02 AM

