

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL031219\
 Data File : VL033273.D
 Acq On : 12 Mar 2019 2:58
 Operator : SY/AP
 Sample : VSTDIC002
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Manual Integrations
 APPROVED

MMDadoda
 3/14/2019 5:05:37 AM

Quant Time: Mar 12 05:01:57 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL031219AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Mar 12 05:01:57 2019
 QLast Update : Tue Mar 12 04:49:55 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	930283	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2181283	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2263960	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.58	95	1715002	9.46	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.08	85	371035	1.923	ppbv	99
3) Chlorodifluoromethane	3.02	51	230978	1.969	ppbv	99
4) Chloromethane	3.17	50	123450	2.003	ppbv	100
5) Vinyl Chloride	3.29	62	120301	2.017	ppbv	99
6) Bromomethane	3.52	94	73623	1.947	ppbv	98
7) Chloroethane	3.60	64	43979	1.993	ppbv	97
8) Dichlorotetrafluoroethane	3.22	85	300231	1.968	ppbv	99
9) Propene	3.04	41	104095	1.998	ppbv	99
10) Heptane	8.25	43	264962	2.145	ppbv	99
11) Trichlorofluoromethane	4.00	101	342446	2.119	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.55	101	225961	2.225	ppbv	100
13) Ethanol	3.66	45	39874	2.742	ppbv	97
14) Bromoethene	3.79	108	93078m	2.226	ppbv	
15) Acetone	3.90	43	261479	2.258	ppbv	98
16) 1,3-Butadiene	3.36	39	95552	1.913	ppbv	98
17) tert-Butyl alcohol	4.37	59	40302m	2.217	ppbv	
18) 1,1-Dichloroethene	4.35	96	104674	2.352	ppbv	88
19) Isopropyl Alcohol	4.03	45	151520	2.181	ppbv #	1
20) Methylene Chloride	4.41	84	109777	2.401	ppbv	91
21) Allyl Chloride	4.48	41	150669	2.250	ppbv	97
22) trans-1,2-Dichloroethene	4.97	96	103642	2.184	ppbv #	94
23) Vinyl Acetate	5.16	43	382336	2.382	ppbv	99
24) 1,1-Dichloroethane	5.09	63	264601	2.173	ppbv	99
25) Ethyl Acetate	5.77	43	464449	2.191	ppbv	99
26) Hexane	5.78	57	224695	2.249	ppbv	94
27) Carbon Disulfide	4.62	76	231916	2.293	ppbv	99
28) Methyl tert-Butyl Ether	5.12	73	305711	2.321	ppbv	100
29) Chloroform	5.85	83	320421	2.109	ppbv	98
30) Cyclohexane	7.25	84	165636	2.207	ppbv	88
31) cis-1,2-Dichloroethene	5.64	61	205534	2.177	ppbv	95
32) 1,1,1-Trichloroethane	6.62	97	307136	2.144	ppbv	98
34) 2-Butanone	5.34	43	298440	2.207	ppbv	100
35) Carbon Tetrachloride	7.13	117	322326	2.157	ppbv	98
36) Benzene	7.00	78	416437	2.160	ppbv	99
37) 1,2-Dichloroethane	6.41	62	247289	2.008	ppbv	100
38) Trichloroethene	7.96	130	158842	2.177	ppbv	98
39) 1,2-Dichloropropane	7.73	63	156211	2.118	ppbv	98
40) 1,4-Dioxane	7.97	88	56621m	2.093	ppbv	
41) Tetrahydrofuran	6.16	42	160564	2.098	ppbv	98
42) Bromodichloromethane	7.91	83	340460	2.072	ppbv	97
43) Methyl Methacrylate	8.14	69	156744	2.081	ppbv	97

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Manual Integrations
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MMDadoda
 3/14/2019 5:05:37 AM

Quant Time: Mar 12 05:01:57 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL031219AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Mar 12 05:01:57 2019
 QLast Update : Tue Mar 12 04:49:55 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	716698	2.155	ppbv	99
45) t-1,3-Dichloropropene	9.41	75	199468	2.184	ppbv	99
46) cis-1,3-Dichloropropene	8.84	75	227951	2.118	ppbv	98
47) 1,1,2-Trichloroethane	9.61	97	163965	2.070	ppbv	98
48) Dibromochloromethane	10.45	129	270870	2.087	ppbv	100
49) Bromoform	13.20	173	221444	1.901	ppbv	99
50) 4-Methyl-2-Pentanone	8.88	43	428664	2.151	ppbv	100
51) 2-Hexanone	10.28	43	332652m	2.239	ppbv	
52) Tetrachloroethene	11.37	164	147743	2.096	ppbv	96
53) Toluene	9.94	91	484299	2.248	ppbv	99
54) 1,2-Dibromoethane	10.76	107	257750	2.075	ppbv	91
56) 1,1,1,2-Tetrachloroethane	12.28	131	199608	2.109	ppbv #	1
57) Chlorobenzene	12.30	112	354054	2.126	ppbv	97
58) Ethyl Benzene	12.86	91	653079	2.126	ppbv	96
59) m/p-Xylene	13.12	91	1096974m	3.951	ppbv	
60) o-Xylene	13.85	91	525784	1.962	ppbv	100
61) Styrene	13.68	104	371592	2.031	ppbv	99
62) Isopropylbenzene	14.83	105	733999	2.052	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.83	83	352871	2.043	ppbv	100
64) n-propylbenzene	15.72	120	174615	1.993	ppbv	89
65) tert-Butylbenzene	16.91	119	631933	2.099	ppbv	99
66) Benzyl Chloride	17.16	91	218988	1.952	ppbv	99
67) sec-Butylbenzene	17.46	105	892493	2.089	ppbv	99
69) p-Isopropyltoluene	17.82	119	715311	2.061	ppbv	99
70) n-Butylbenzene	18.72	91	767351	2.040	ppbv	98
71) 2-Chlorotoluene	15.62	91	548761	2.053	ppbv	99
72) 4-Ethyltoluene	16.00	105	566988	2.035	ppbv	99
73) 1,3,5-Trimethylbenzene	16.16	105	523931	1.974	ppbv	97
74) 1,2,4-Trimethylbenzene	16.93	105	539828	1.952	ppbv	98
75) 1,3-Dichlorobenzene	17.16	146	330747m	2.026	ppbv	
76) 1,4-Dichlorobenzene	17.31	146	318209	1.987	ppbv	97
77) 1,2-Dichlorobenzene	17.99	146	322486m	2.047	ppbv	
78) Hexachloro-1,3-Butadiene	23.55	225	236487	1.980	ppbv	98
79) Naphthalene	22.42	128	419679	1.389	ppbv	96
80) Naphthalene,2-methyl-	25.12	142	20587	0.282	ppbv	97
81) 1,2,4-Trichlorobenzene	22.14	180	245575	1.573	ppbv	98

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

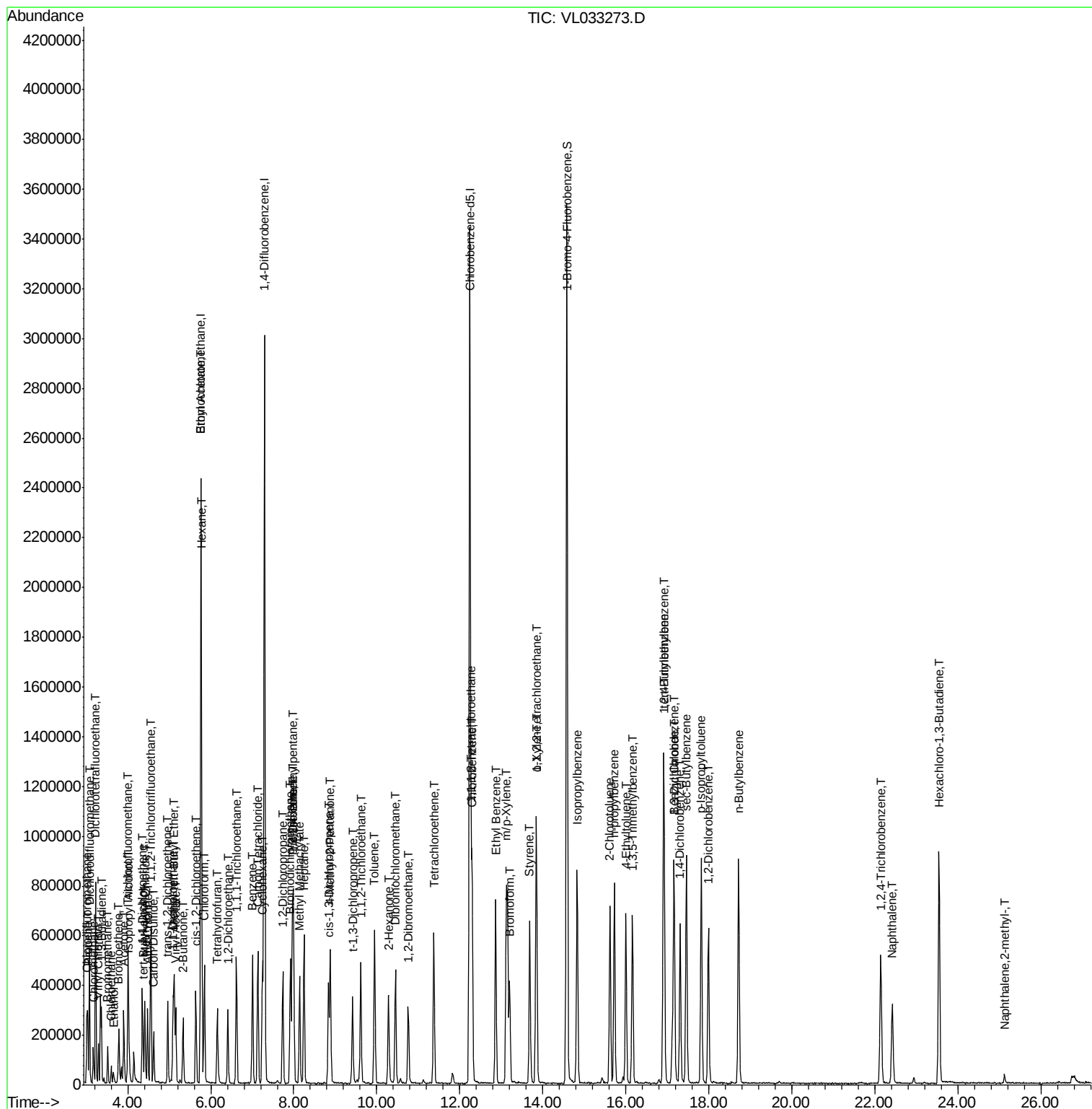
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL031219\
Data File : VL033273.D
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Operator : SY/AP
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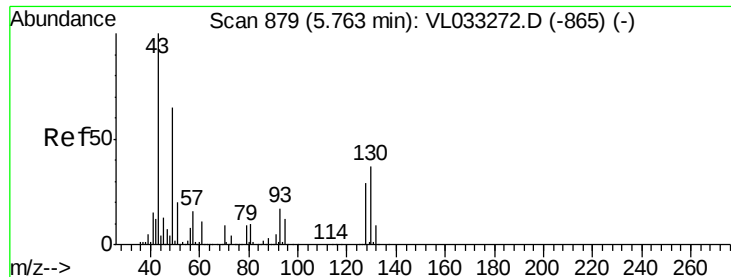
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Manual Integrations
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MMDadoda
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Mar
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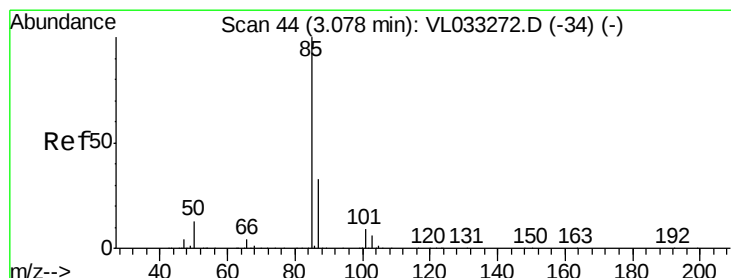
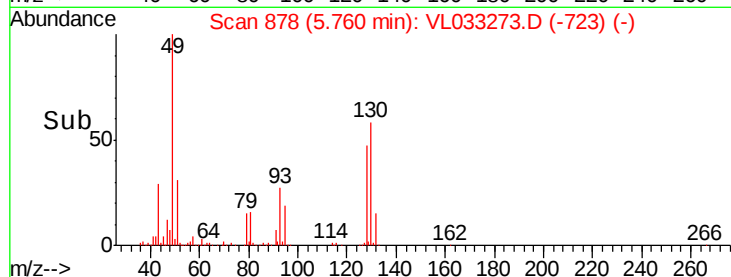
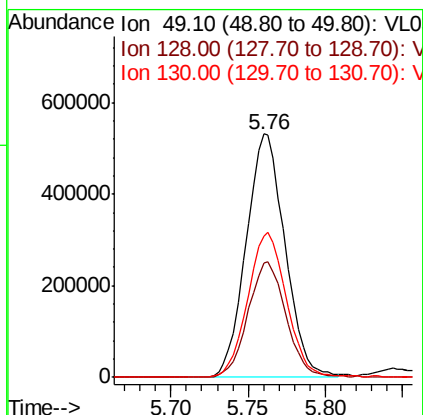
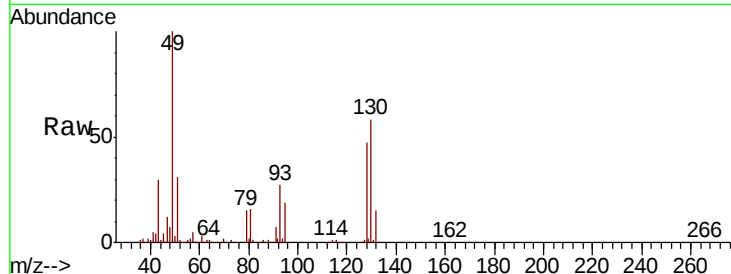
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.76 min Scan# 878
Delta R.T. -0.00 min
Lab File: VL033273.D
Acq: 12 Mar 2019 2:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tgt Ion	Ratio	Lower	Upper
49	100		
128	46.8	23.3	69.9
130	60.1	30.0	90.1

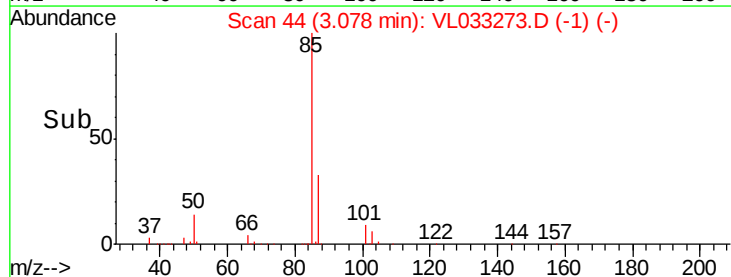
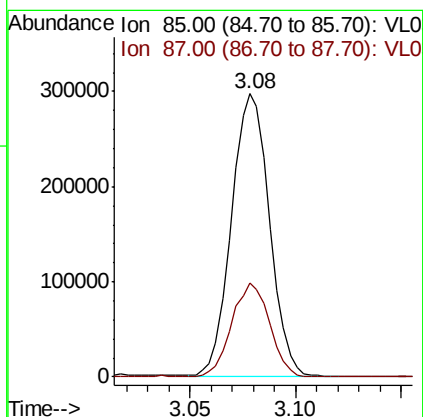
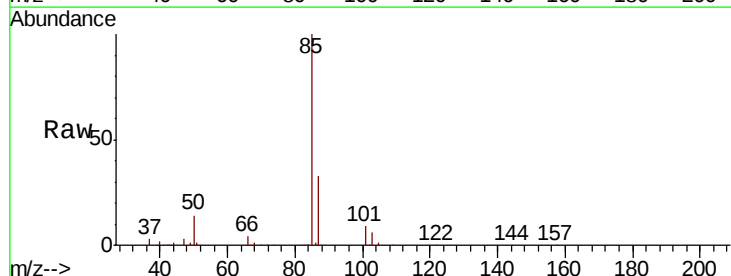
Manual Integrations
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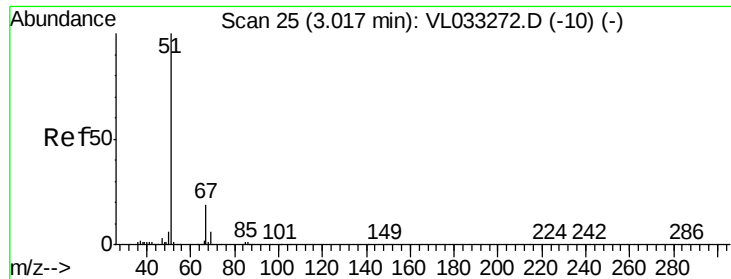
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#2
Dichlorodifluoromethane
Concen: 1.923 ppbv
RT: 3.08 min Scan# 44
Delta R.T. 0.00 min
Lab File: VL033273.D
Acq: 12 Mar 2019 2:58

Tgt Ion	Ratio	Lower	Upper
85	100		
87	33.3	26.4	39.6





#3

Chlorodifluoromethane

Concen: 1.969 ppbv

RT: 3.02 min Scan# 25

Delta R.T. 0.00 min

Lab File: VL033273.D

Acq: 12 Mar 2019 2:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tgt Ion: 51 Resp: 230978

Ion Ratio Lower Upper

51 100

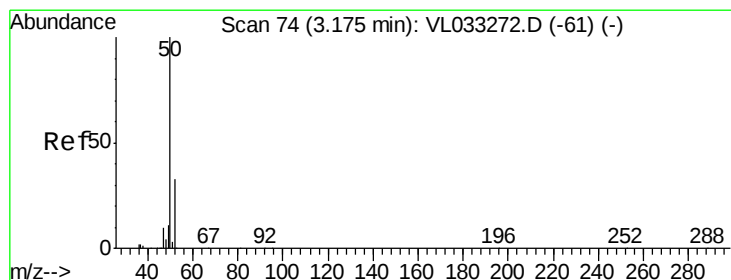
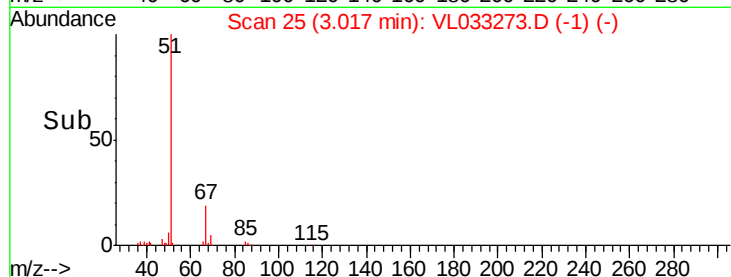
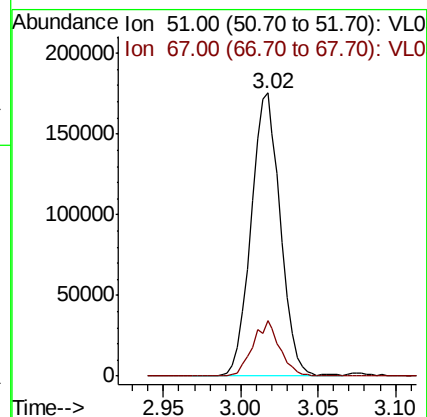
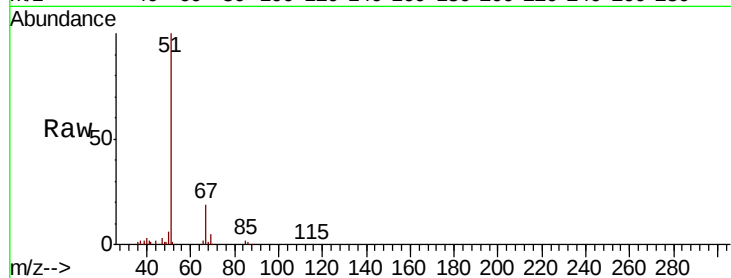
67 18.1 15.0 22.4

Manual Integrations

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3/14/2019 5:05:37 AM



#4

Chloromethane

Concen: 2.003 ppbv

RT: 3.17 min Scan# 74

Delta R.T. 0.00 min

Lab File: VL033273.D

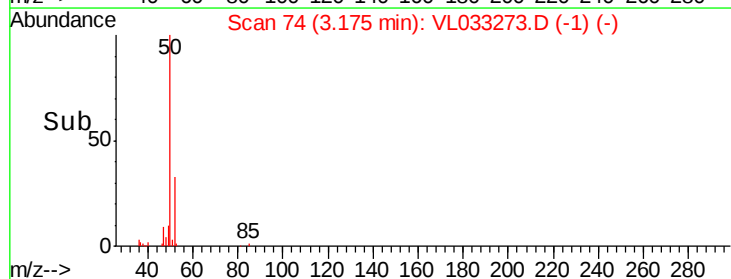
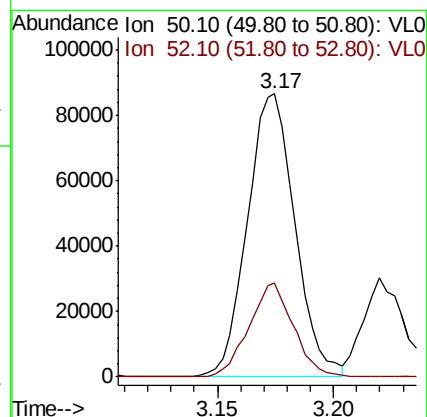
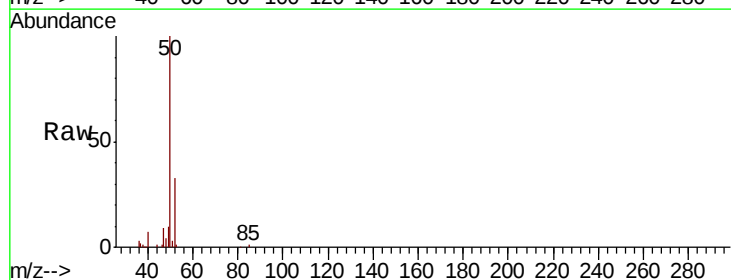
Acq: 12 Mar 2019 2:58

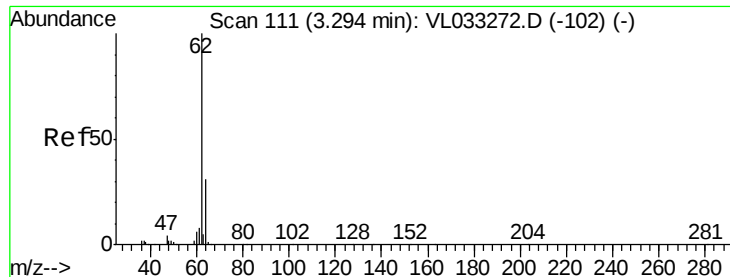
Tgt Ion: 50 Resp: 123450

Ion Ratio Lower Upper

50 100

52 33.3 26.6 39.8





#5

Vinyl Chloride

Concen: 2.017 ppbv

RT: 3.29 min Scan# 111

Delta R.T. 0.00 min

Lab File: VL033273.D

Acq: 12 Mar 2019 2:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tgt Ion: 62 Resp: 120301

Ion Ratio Lower Upper

62 100

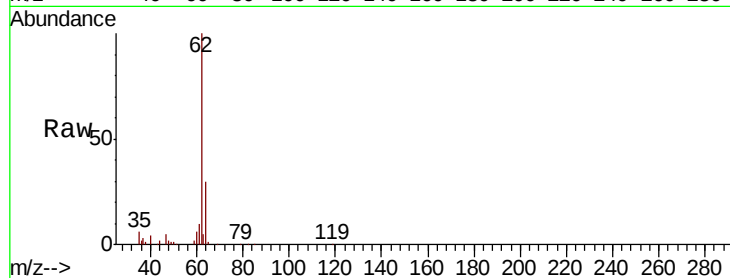
64 29.9 24.5 36.7

Manual Integrations

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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0

3.29

80000

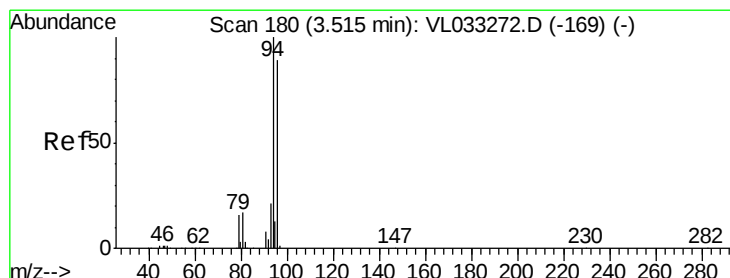
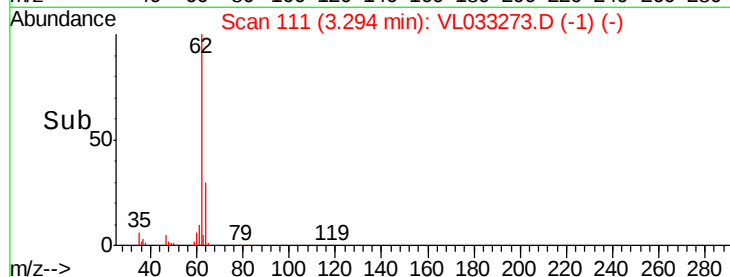
60000

40000

20000

0

Time-->



#6

Bromomethane

Concen: 1.947 ppbv

RT: 3.52 min Scan# 180

Delta R.T. 0.00 min

Lab File: VL033273.D

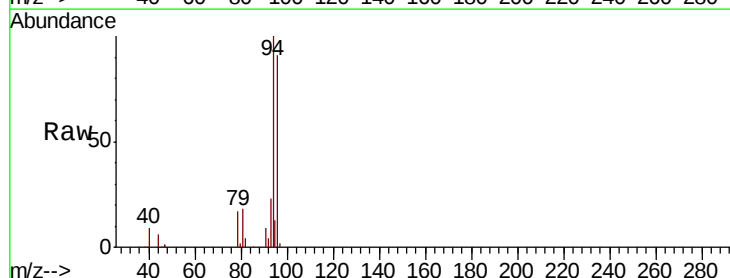
Acq: 12 Mar 2019 2:58

Tgt Ion: 94 Resp: 73623

Ion Ratio Lower Upper

94 100

96 91.0 71.3 106.9



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0

3.52

60000

50000

40000

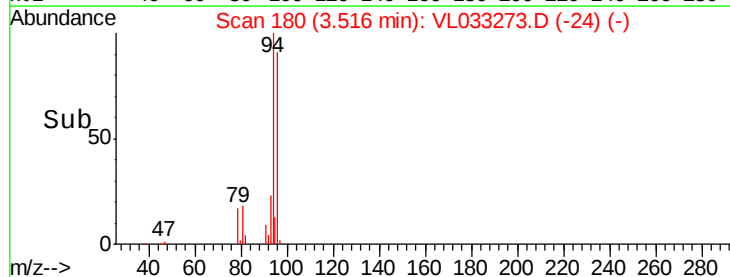
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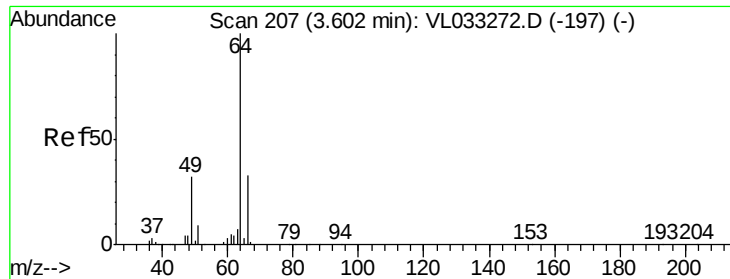
20000

10000

0

Time-->





#7

Chloroethane

Concen: 1.993 ppbv

RT: 3.60 min Scan# 207

Delta R.T. 0.00 min

Lab File: VL033273.D

Acq: 12 Mar 2019 2:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tgt Ion: 64 Resp: 43979

Ion Ratio Lower Upper

64 100

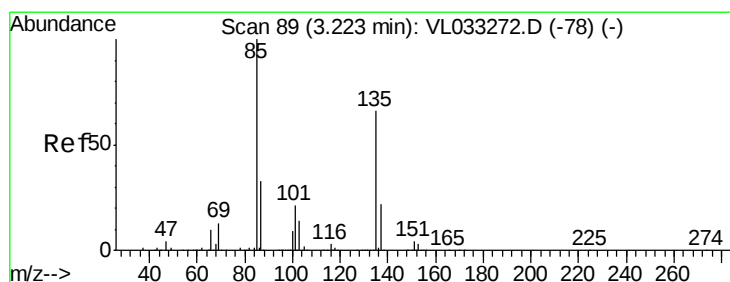
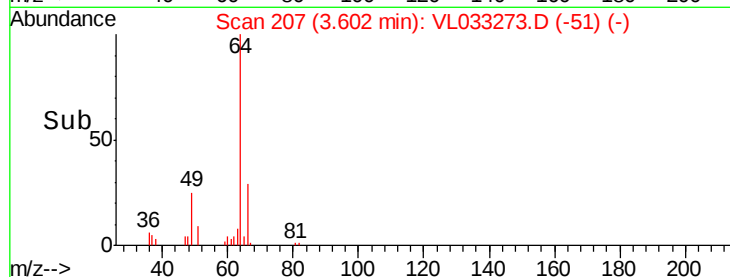
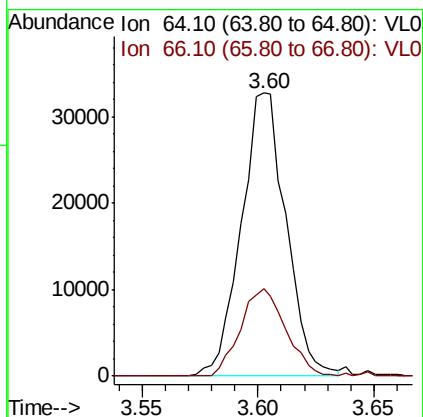
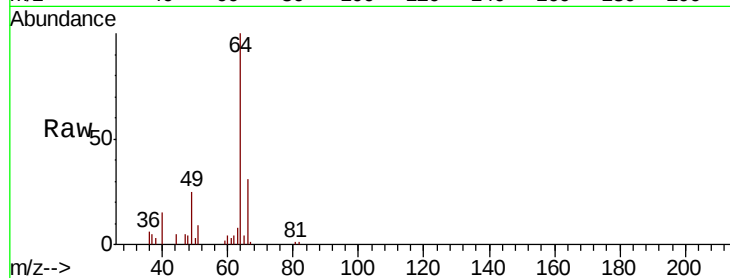
66 30.8 26.2 39.2

Manual Integrations

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#8

Dichlorotetrafluoroethane

Concen: 1.968 ppbv

RT: 3.22 min Scan# 89

Delta R.T. 0.00 min

Lab File: VL033273.D

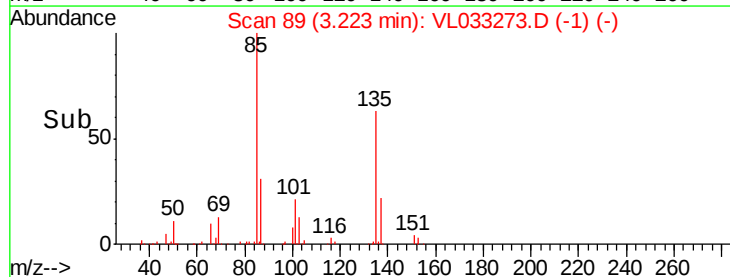
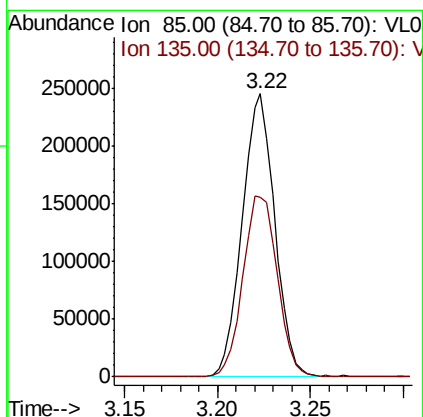
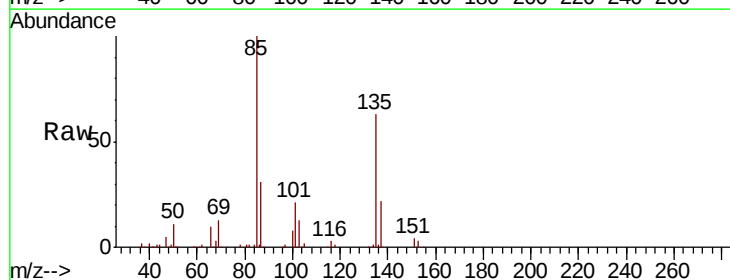
Acq: 12 Mar 2019 2:58

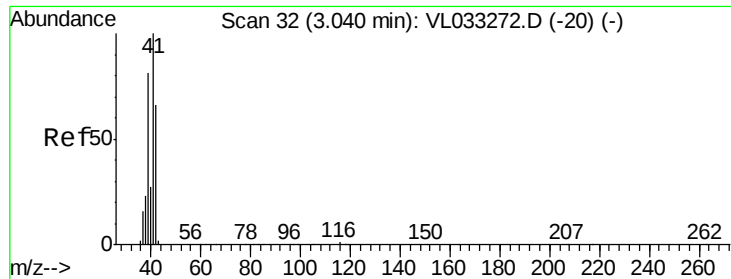
Tgt Ion: 85 Resp: 300231

Ion Ratio Lower Upper

85 100

135 67.7 53.4 80.2





#9

Propene

Concen: 1.998 ppbv

RT: 3.04 min Scan# 32

Delta R.T. 0.00 min

Lab File: VL033273.D

Acq: 12 Mar 2019 2:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tgt Ion: 41 Resp: 104095

Ion Ratio Lower Upper

41 100

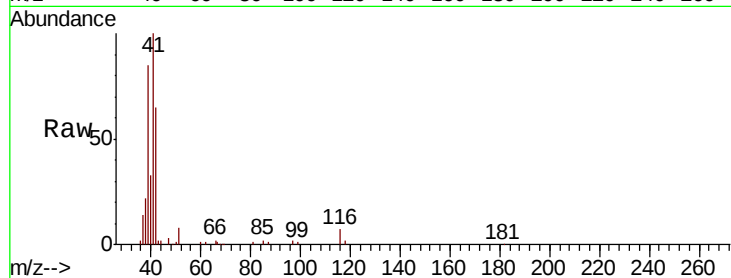
42 67.7 54.6 82.0

Manual Integrations

APPROVED

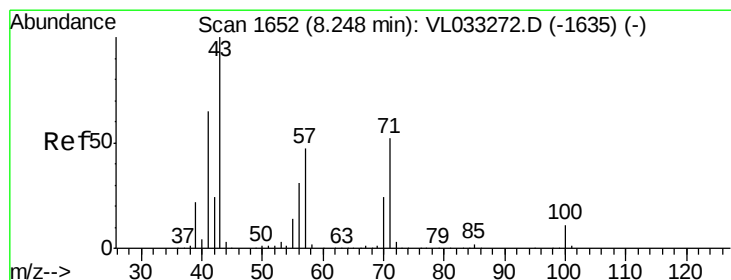
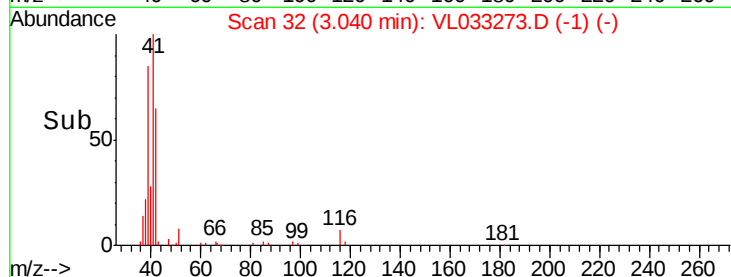
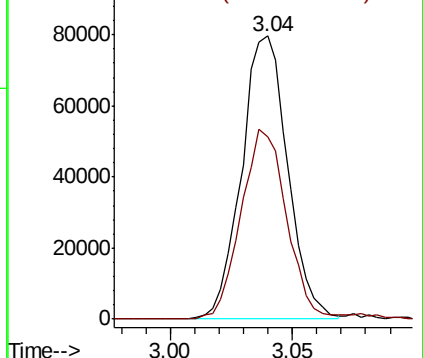
MMDadoda

3/14/2019 5:05:37 AM



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 2.145 ppbv

RT: 8.25 min Scan# 1651

Delta R.T. -0.00 min

Lab File: VL033273.D

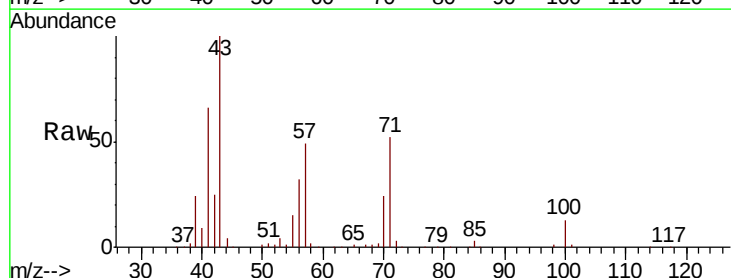
Acq: 12 Mar 2019 2:58

Tgt Ion: 43 Resp: 264962

Ion Ratio Lower Upper

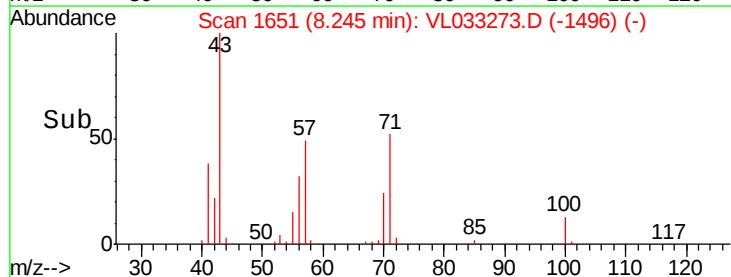
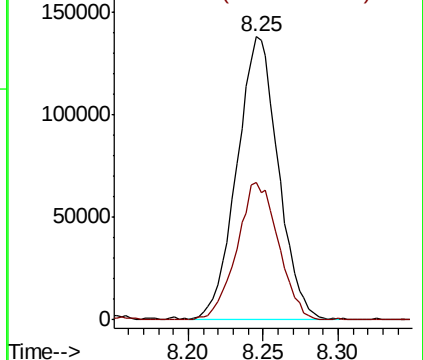
43 100

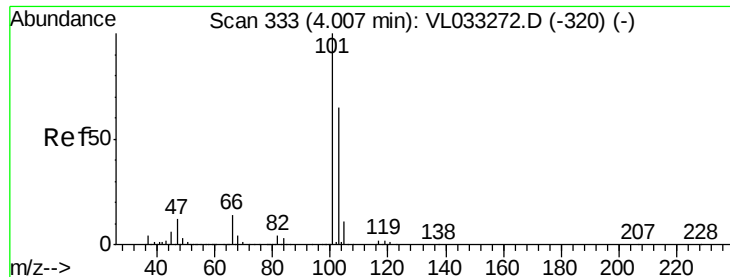
57 49.3 39.8 59.8



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





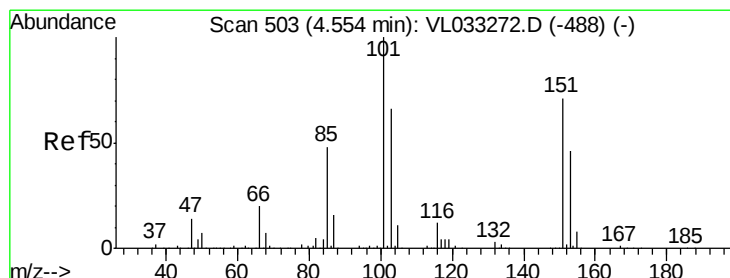
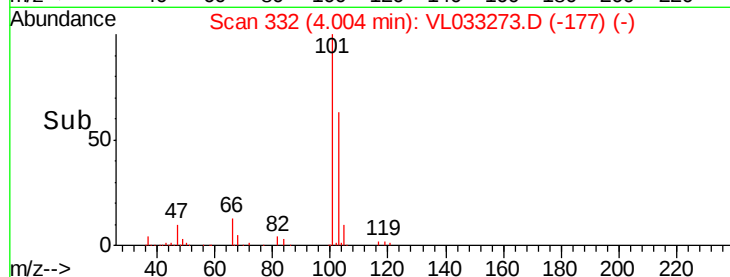
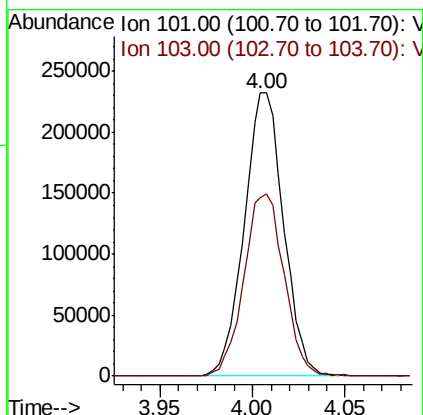
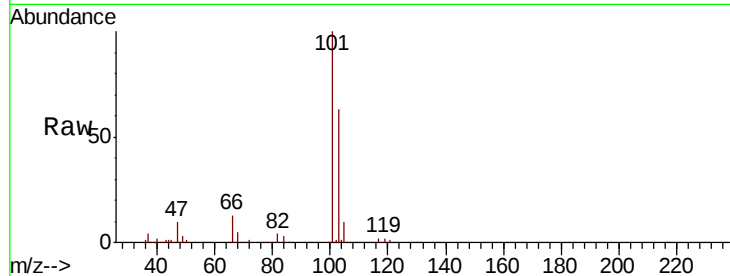
#11
 Trichlorofluoromethane
 Concen: 2.119 ppbv
 RT: 4.00 min Scan# 332
 Delta R.T. -0.00 min
 Lab File: VL033273.D
 Acq: 12 Mar 2019 2:58

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tgt Ion:101 Resp: 342446
 Ion Ratio Lower Upper
 101 100
 103 63.0 51.8 77.8

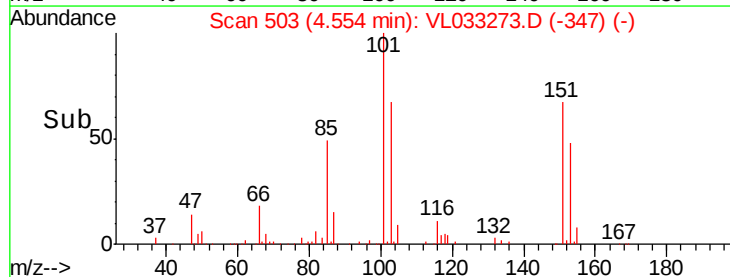
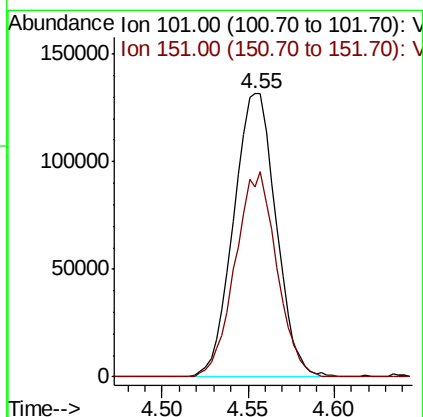
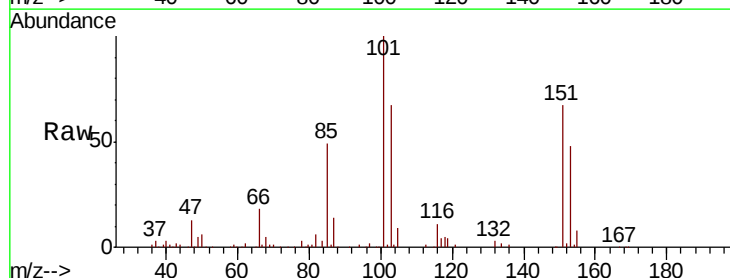
Manual Integrations
 APPROVED

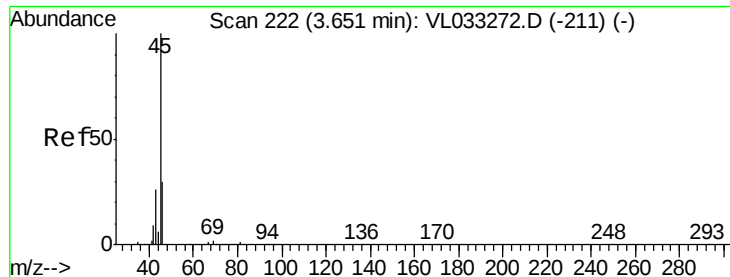
MMDadoda
 3/14/2019 5:05:37 AM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 2.225 ppbv
 RT: 4.55 min Scan# 503
 Delta R.T. 0.00 min
 Lab File: VL033273.D
 Acq: 12 Mar 2019 2:58

Tgt Ion:101 Resp: 225961
 Ion Ratio Lower Upper
 101 100
 151 70.7 56.9 85.3





#13

Ethanol

Concen: 2.742 ppbv

RT: 3.66 min Scan# 224

Delta R.T. 0.01 min

Lab File: VL033273.D

Acq: 12 Mar 2019 2:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tgt Ion: 45 Resp: 39874

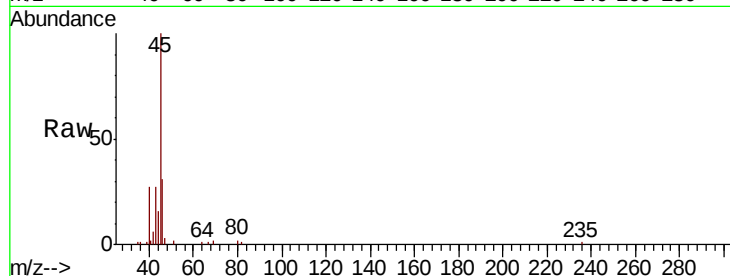
Ion Ratio Lower Upper

45 100

46 36.4 13.9 55.7

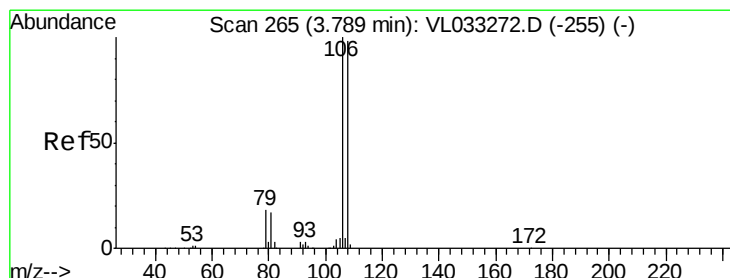
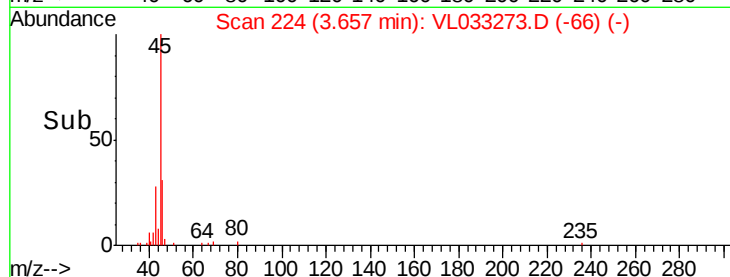
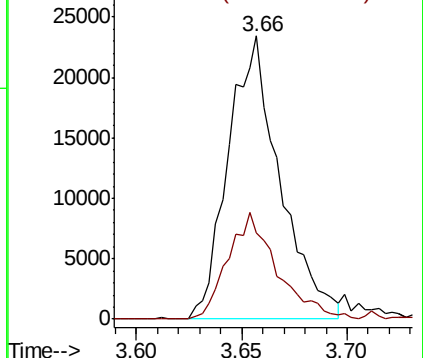
Manual Integrations
APPROVED

MMDadoda
3/14/2019 5:05:37 AM



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0



#14

Bromoethene

Concen: 2.226 ppbv m

RT: 3.79 min Scan# 264

Delta R.T. -0.00 min

Lab File: VL033273.D

Acq: 12 Mar 2019 2:58

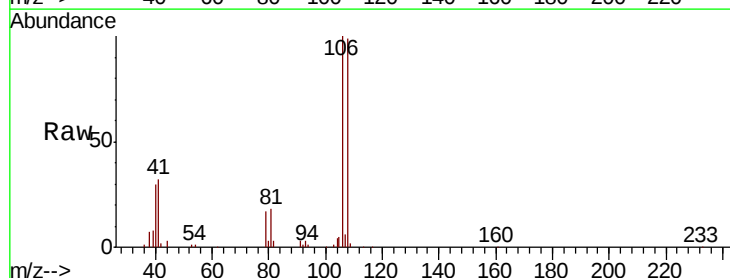
Tgt Ion: 108 Resp: 93078

Ion Ratio Lower Upper

108 100

106 0.0 85.9 128.9#

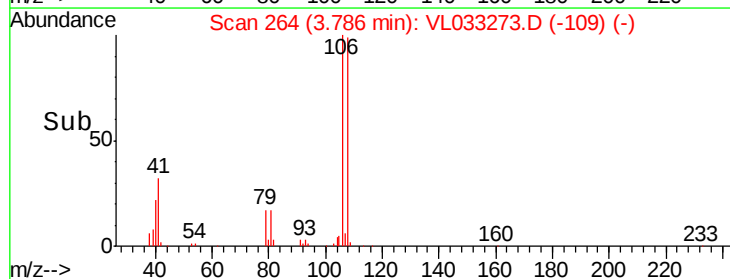
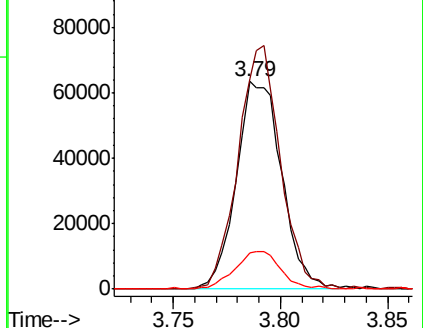
79 0.0 14.9 22.3#

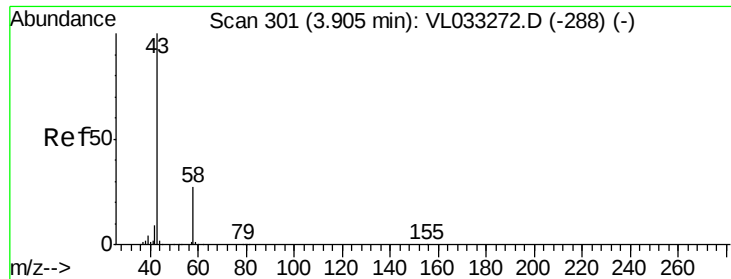


Abundance Ion 108.00 (107.70 to 108.70): V

Ion 106.00 (105.70 to 106.70): V

Ion 79.00 (78.70 to 79.70): VL0





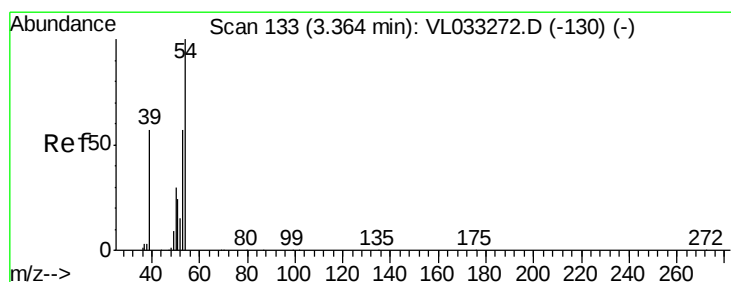
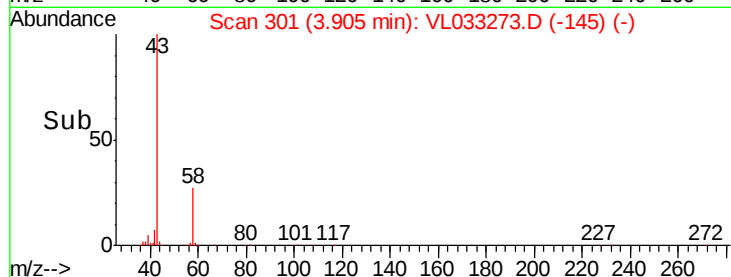
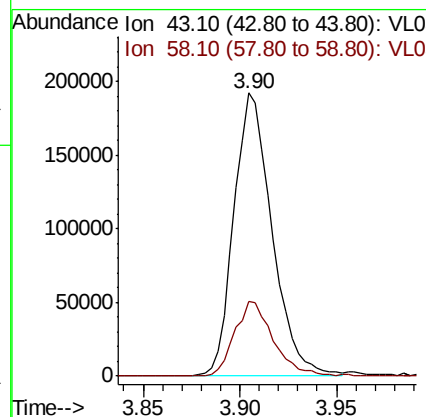
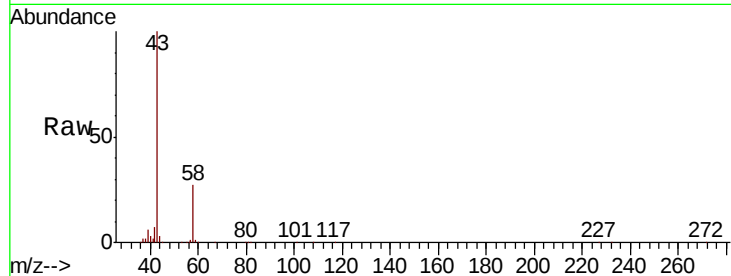
#15
Acetone
Concen: 2.258 ppbv
RT: 3.90 min Scan# 301
Delta R.T. 0.00 min
Lab File: VL033273.D
Acq: 12 Mar 2019 2:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tgt Ion: 43 Resp: 261479
Ion Ratio Lower Upper
43 100
58 27.4 21.1 31.7

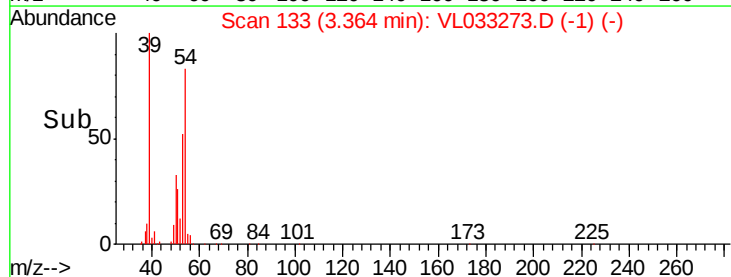
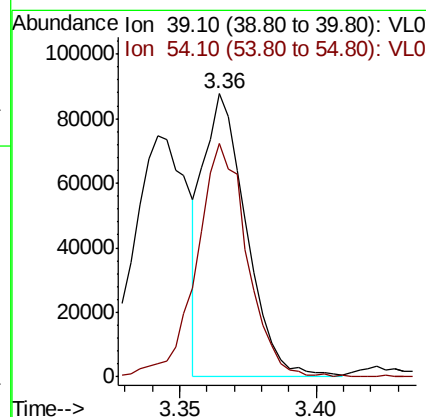
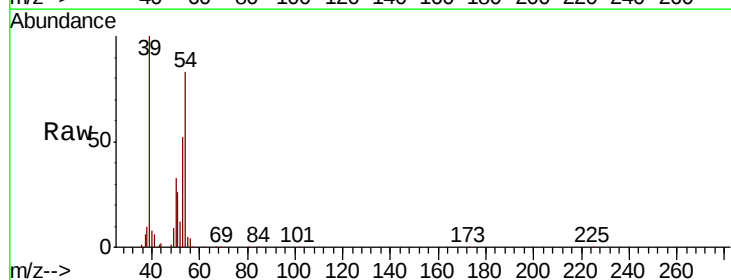
Manual Integrations
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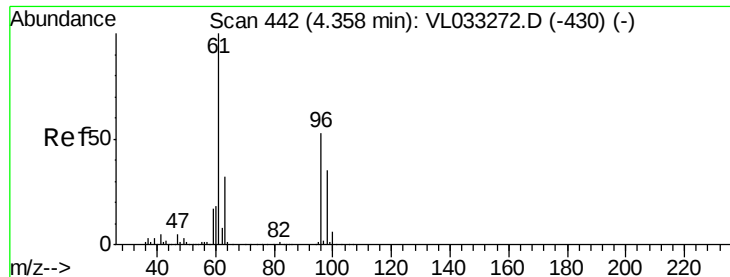
MMDadoda
3/14/2019 5:05:37 AM



#16
1,3-Butadiene
Concen: 1.913 ppbv
RT: 3.36 min Scan# 133
Delta R.T. 0.00 min
Lab File: VL033273.D
Acq: 12 Mar 2019 2:58

Tgt Ion: 39 Resp: 95552
Ion Ratio Lower Upper
39 100
54 97.8 76.6 114.8





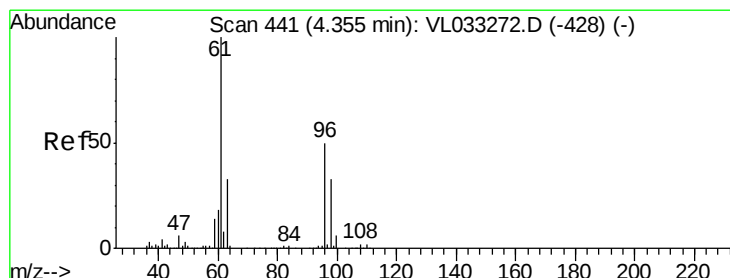
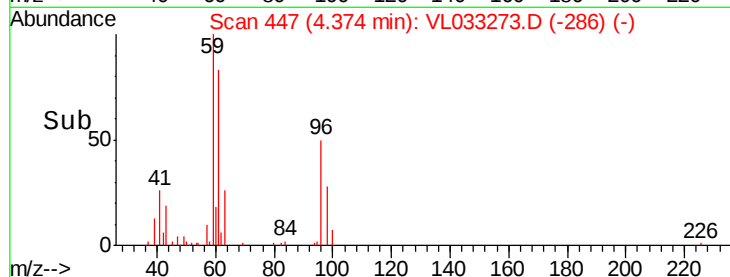
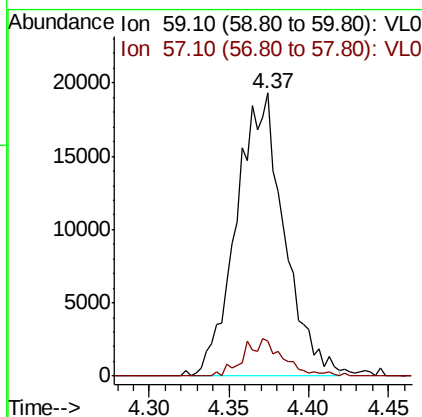
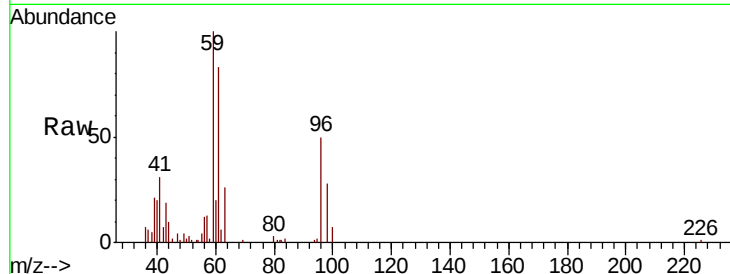
#17
 tert-Butyl alcohol
 Concen: 2.217 ppbv
 RT: 4.37 min Scan# 447
 Delta R.T. 0.02 min
 Lab File: VL033273.D
 Acq: 12 Mar 2019 2:58

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tgt Ion: 59 Resp: 40302
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.5 11.3#

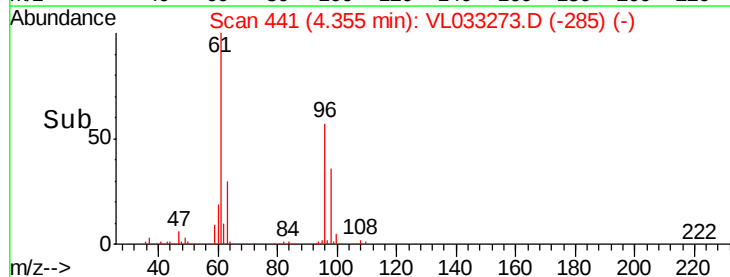
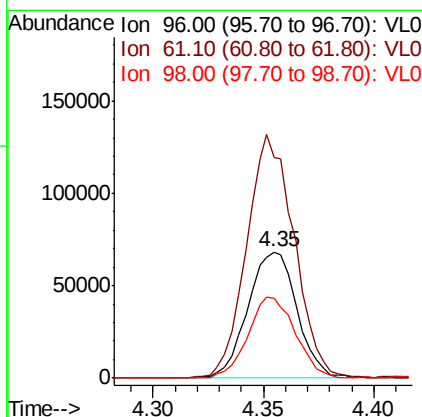
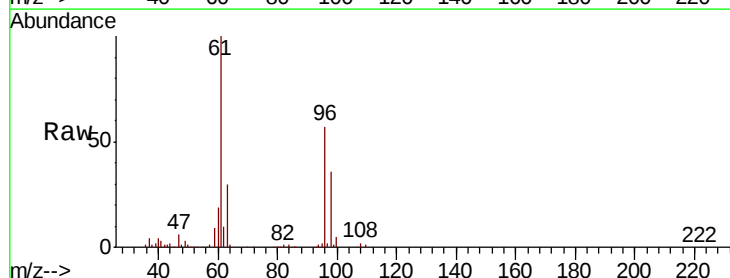
Manual Integrations
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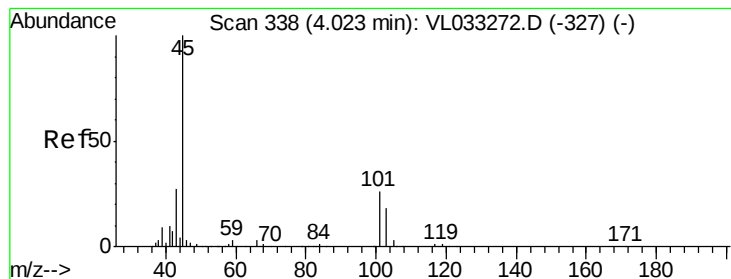
MMDadoda
 3/14/2019 5:05:37 AM



#18
 1,1-Dichloroethene
 Concen: 2.352 ppbv
 RT: 4.35 min Scan# 441
 Delta R.T. 0.00 min
 Lab File: VL033273.D
 Acq: 12 Mar 2019 2:58

Tgt Ion: 96 Resp: 104674
 Ion Ratio Lower Upper
 96 100
 61 175.4 158.9 238.3
 98 63.8 52.4 78.6





#19

Isopropyl Alcohol

Concen: 2.181 ppbv

RT: 4.03 min Scan# 339

Delta R.T. 0.00 min

Lab File: VL033273.D

Acq: 12 Mar 2019 2:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tgt Ion: 45 Resp: 151520

Ion Ratio Lower Upper

45 100

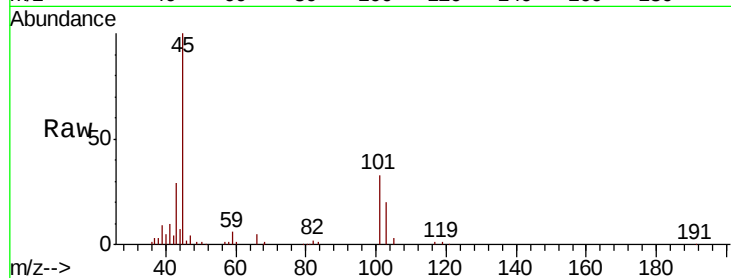
58 47.6 1.4 2.2#

Manual Integrations

APPROVED

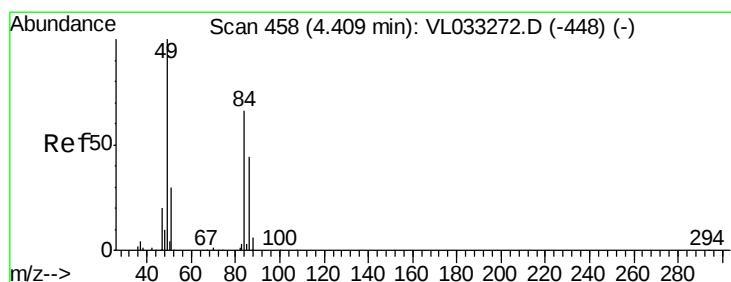
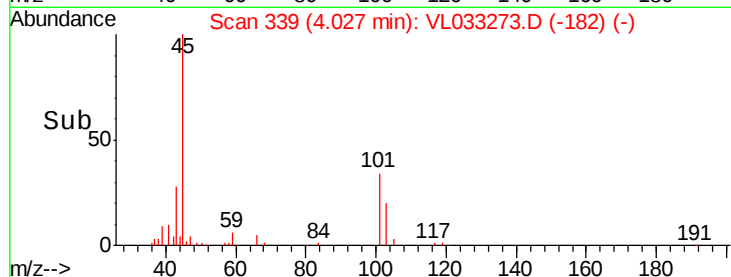
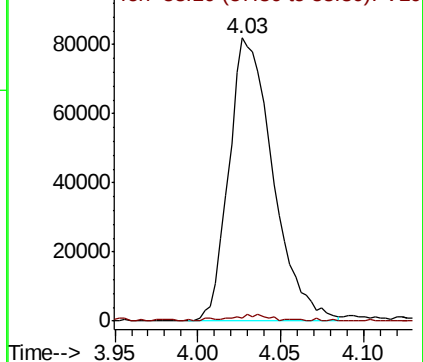
MMDadoda

3/14/2019 5:05:37 AM



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 2.401 ppbv

RT: 4.41 min Scan# 458

Delta R.T. 0.00 min

Lab File: VL033273.D

Acq: 12 Mar 2019 2:58

Tgt Ion: 84 Resp: 109777

Ion Ratio Lower Upper

84 100

49 137.1 120.3 180.5

51 44.5 36.2 54.4

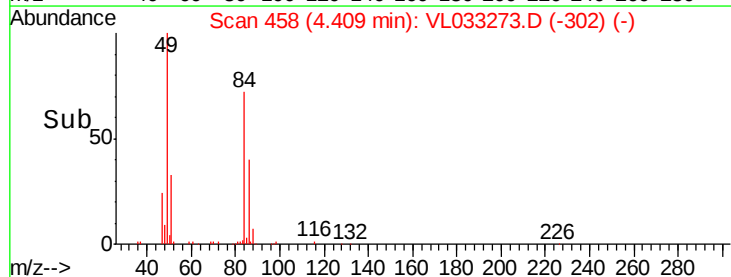
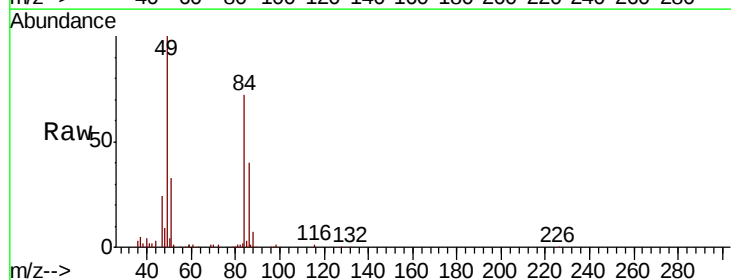
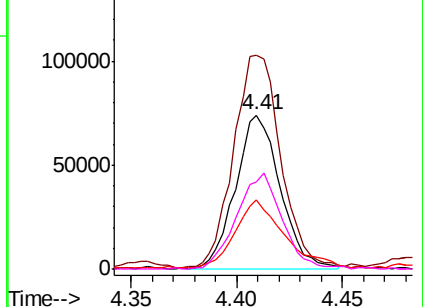
86 56.1 52.5 78.7

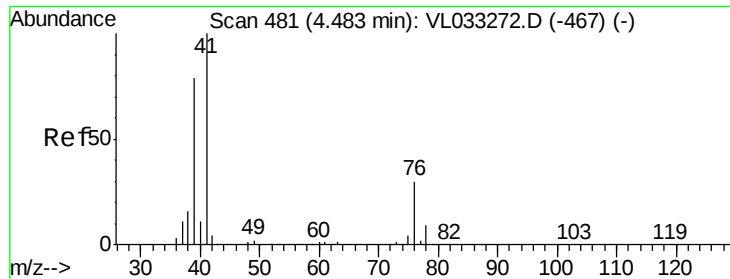
Abundance Ion 84.00 (83.70 to 84.70): VL0

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





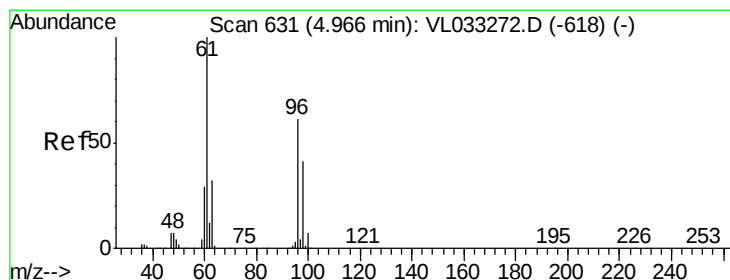
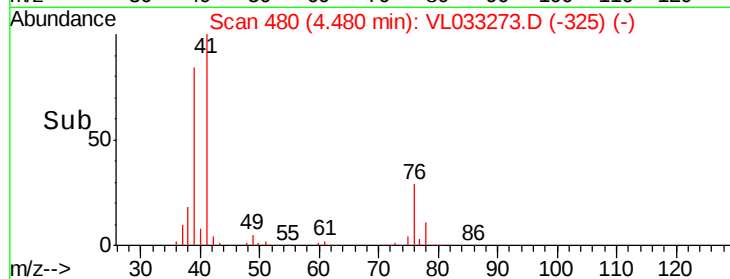
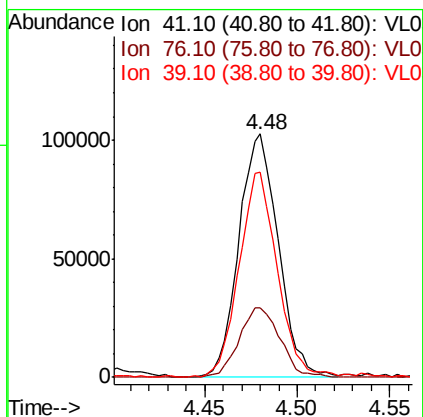
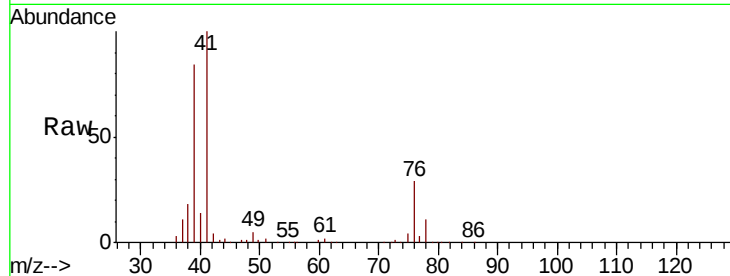
#21
 Allyl Chloride
 Concen: 2.250 ppbv
 RT: 4.48 min Scan# 480
 Delta R.T. -0.00 min
 Lab File: VL033273.D
 Acq: 12 Mar 2019 2:58

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tgt Ion	Ratio	Lower	Upper
41	100		
76	30.0	25.0	37.4
39	83.6	64.2	96.4

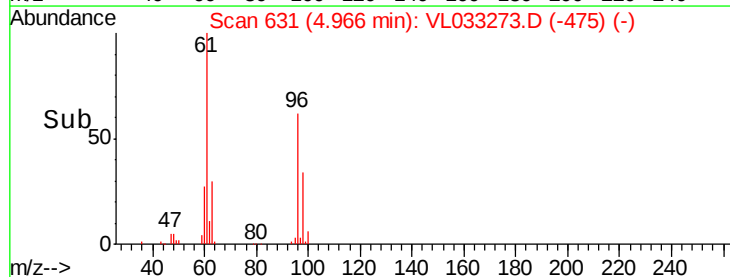
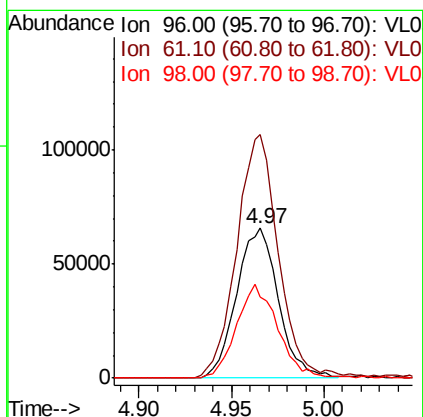
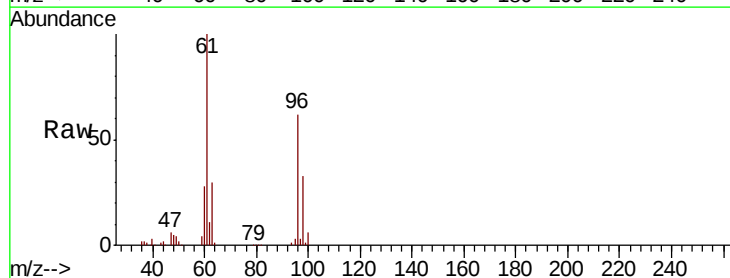
Manual Integrations
 APPROVED

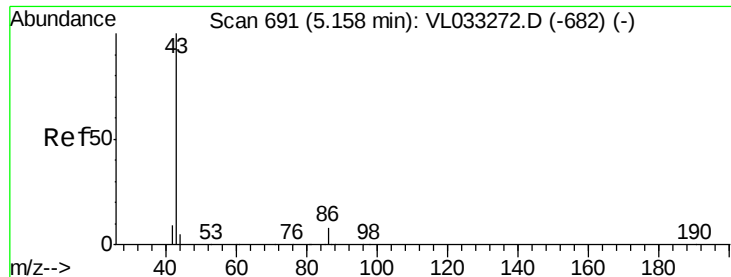
MMDadoda
 3/14/2019 5:05:37 AM



#22
 trans-1,2-Dichloroethene
 Concen: 2.184 ppbv
 RT: 4.97 min Scan# 631
 Delta R.T. 0.00 min
 Lab File: VL033273.D
 Acq: 12 Mar 2019 2:58

Tgt Ion	Ratio	Lower	Upper
96	100		
61	161.7	131.6	197.4
98	53.9	54.1	81.1#





#23

Vinyl Acetate

Concen: 2.382 ppbv

RT: 5.16 min Scan# 690

Delta R.T. -0.00 min

Lab File: VL033273.D

Acq: 12 Mar 2019 2:58

Instrument :

MSVOA_L

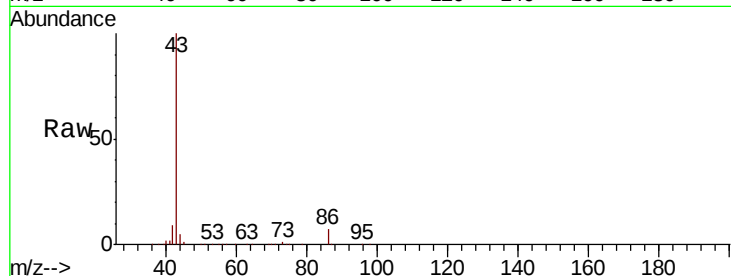
ClientSampleId :

VSTDIC002

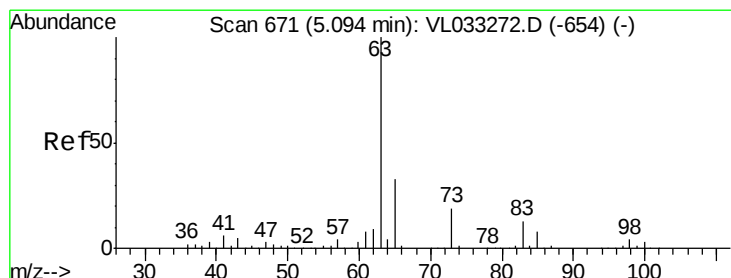
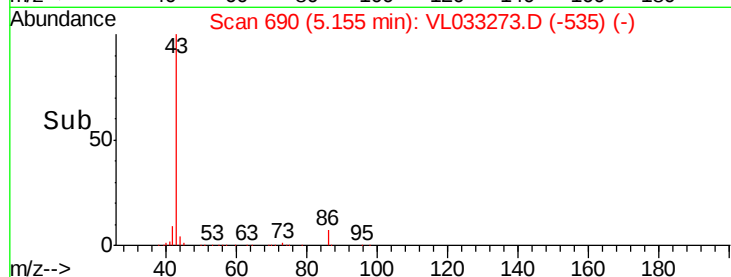
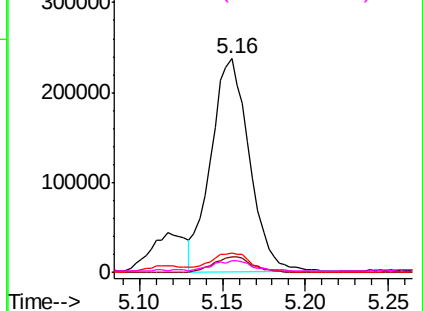
Tgt Ion	Ratio	Lower	Upper
43	100		
86	7.0	5.5	8.3
42	8.8	7.8	11.6
44	4.6	3.6	5.4

Manual Integrations
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MMDadoda
3/14/2019 5:05:37 AM



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: 2.173 ppbv

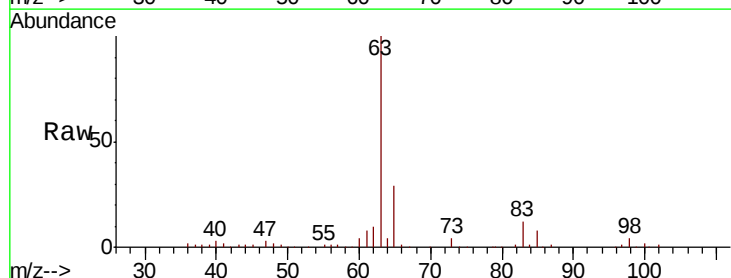
RT: 5.09 min Scan# 670

Delta R.T. -0.00 min

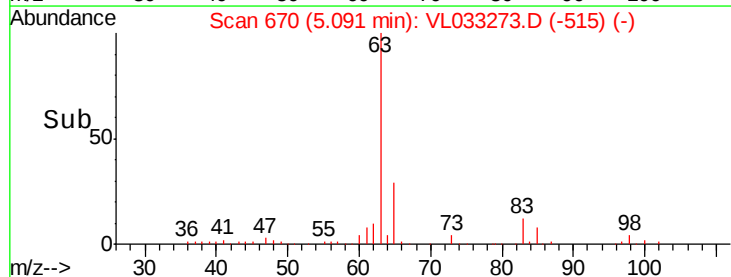
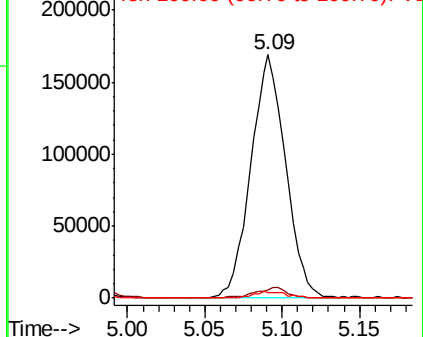
Lab File: VL033273.D

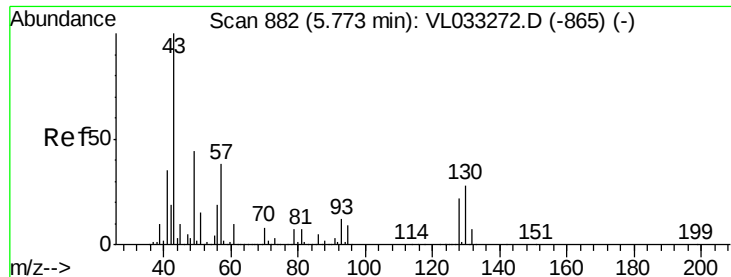
Acq: 12 Mar 2019 2:58

Tgt Ion	Ratio	Lower	Upper
63	100		
98	4.0	2.2	6.6
100	2.3	1.5	4.4



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





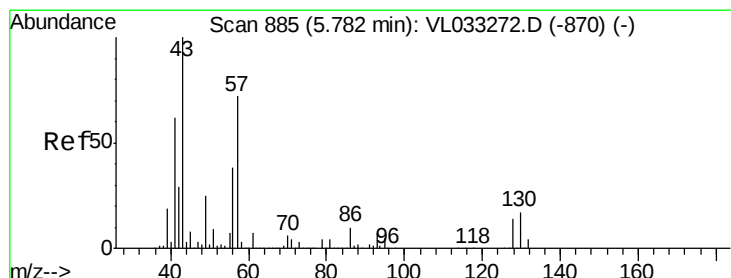
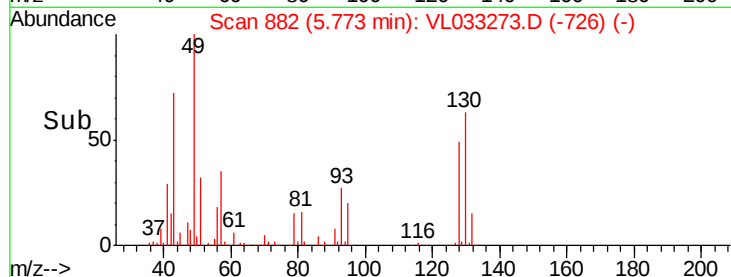
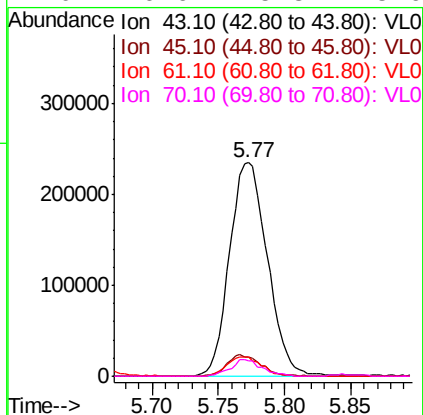
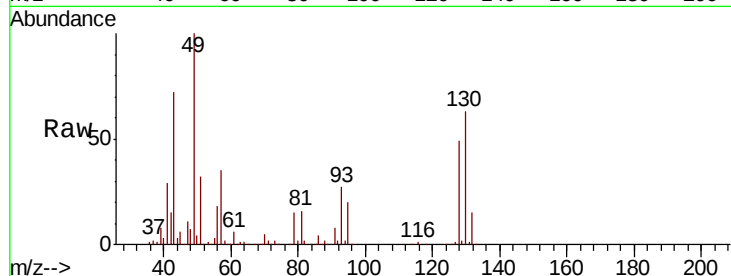
#25
Ethyl Acetate
Concen: 2.191 ppbv
RT: 5.77 min Scan# 882
Delta R.T. 0.00 min
Lab File: VL033273.D
Acq: 12 Mar 2019 2:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
43	100		464449		
45	9.4	7.8	11.6		
61	8.5	7.3	10.9		
70	6.6	5.8	8.6		

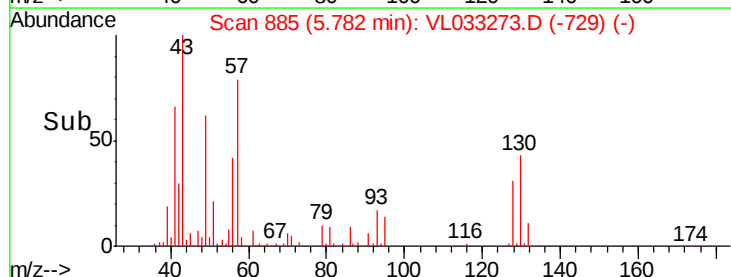
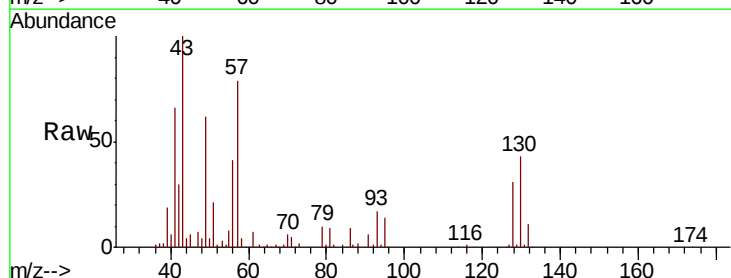
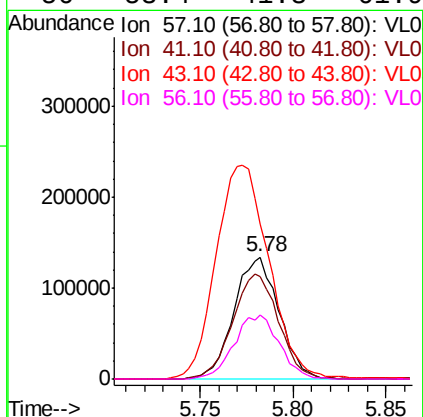
Manual Integrations
APPROVED

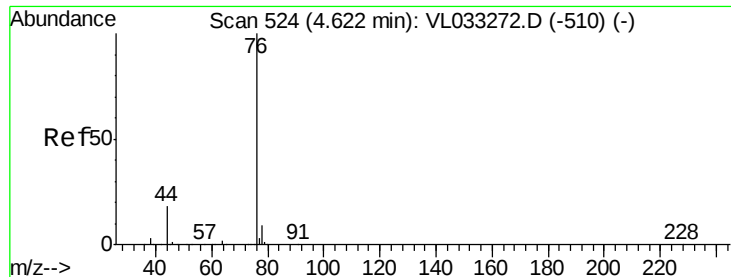
MMDadoda
3/14/2019 5:05:37 AM



#26
Hexane
Concen: 2.249 ppbv
RT: 5.78 min Scan# 885
Delta R.T. 0.00 min
Lab File: VL033273.D
Acq: 12 Mar 2019 2:58

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
57	100		224695		
41	88.8	70.7	106.1		
43	209.1	178.6	267.8		
56	53.4	41.3	61.9		





#27

Carbon Disulfide

Concen: 2.293 ppbv

RT: 4.62 min Scan# 524

Delta R.T. 0.00 min

Lab File: VL033273.D

Acq: 12 Mar 2019 2:58

Instrument :

MSVOA_L

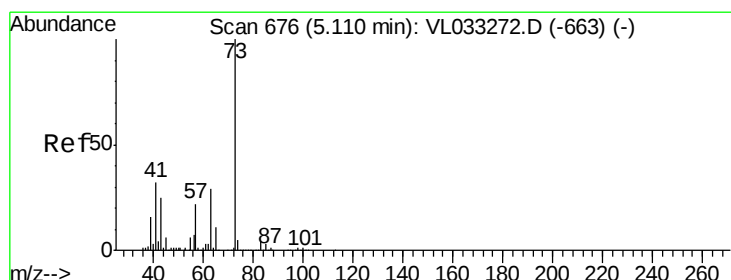
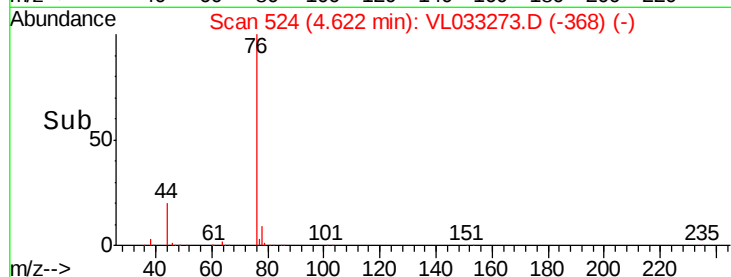
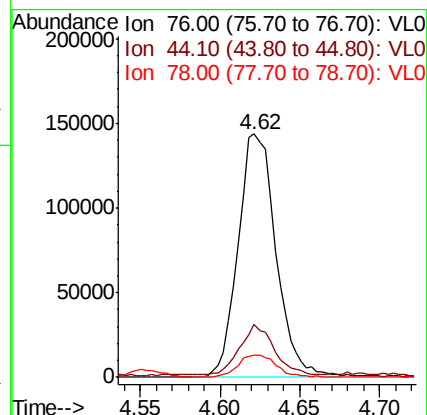
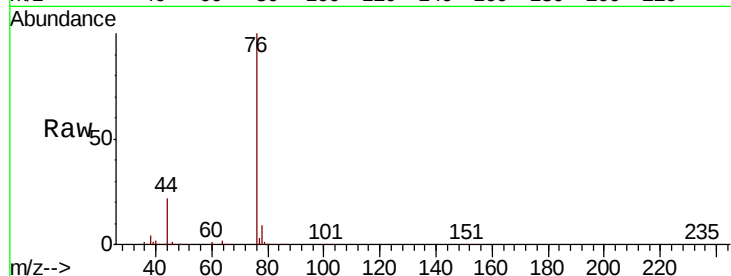
ClientSampleId :

VSTDIC002

Tgt Ion:	76	Resp:	231916
Ion	Ratio	Lower	Upper
76	100		
44	19.5	15.1	22.7
78	9.6	7.4	11.0

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#28

Methyl tert-Butyl Ether

Concen: 2.321 ppbv

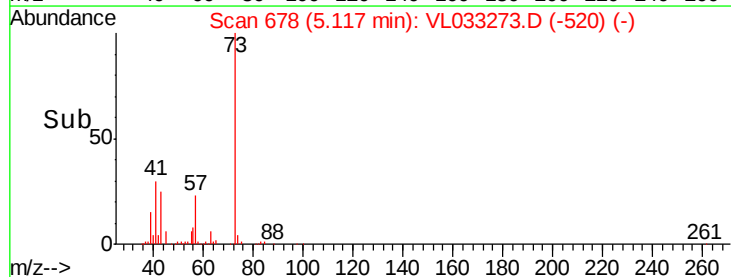
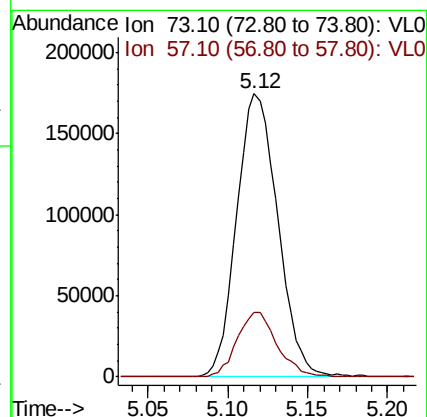
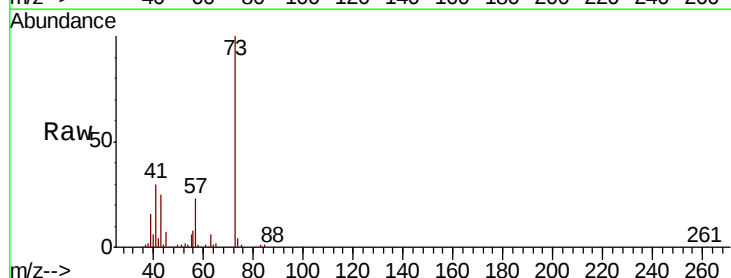
RT: 5.12 min Scan# 678

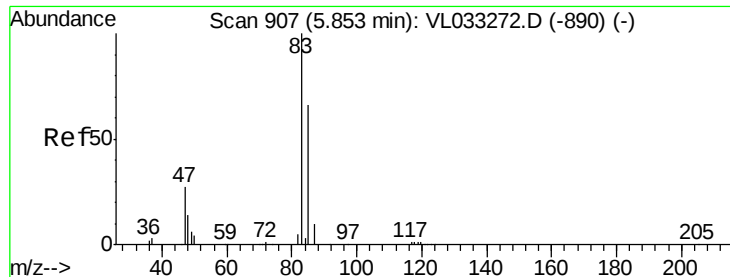
Delta R.T. 0.01 min

Lab File: VL033273.D

Acq: 12 Mar 2019 2:58

Tgt Ion:	73	Resp:	305711
Ion	Ratio	Lower	Upper
73	100		
57	22.4	17.9	26.9





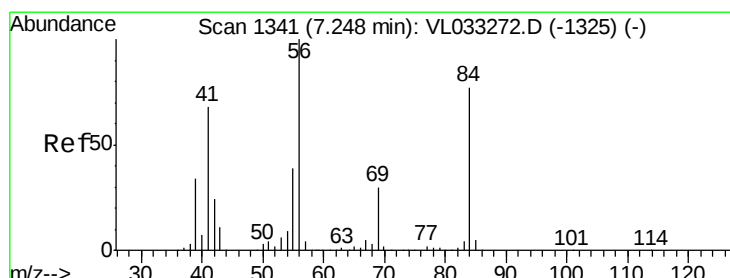
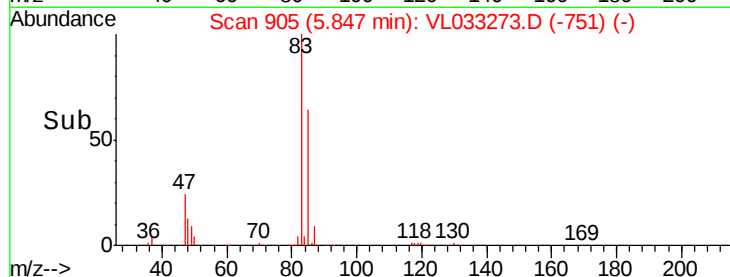
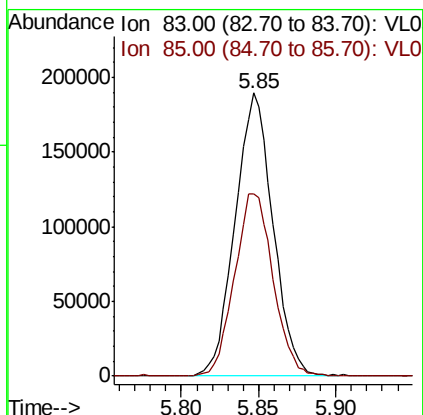
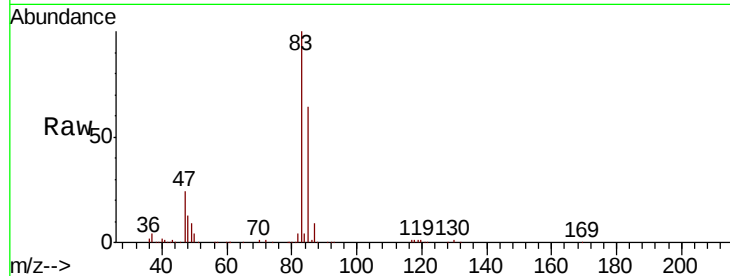
#29
Chloroform
Concen: 2.109 ppbv
RT: 5.85 min Scan# 905
Delta R.T. -0.01 min
Lab File: VL033273.D
Acq: 12 Mar 2019 2:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tgt Ion: 83 Resp: 320421
Ion Ratio Lower Upper
83 100
85 64.3 52.5 78.7

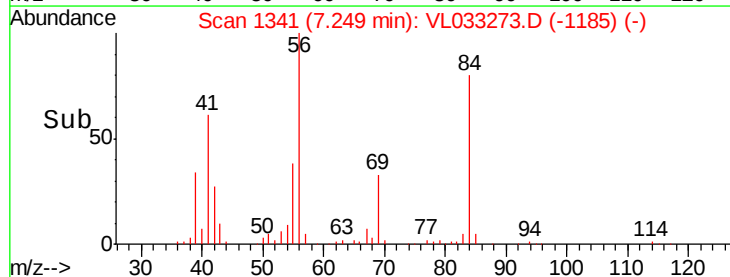
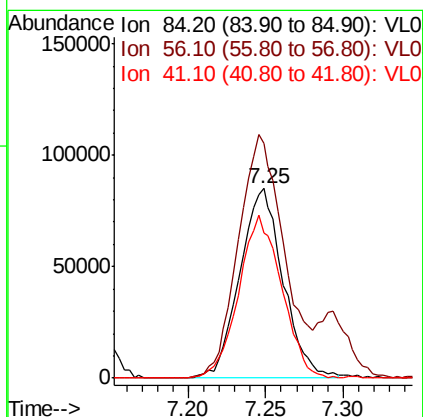
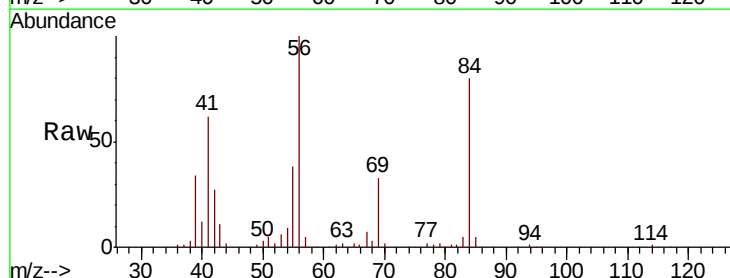
Manual Integrations
APPROVED

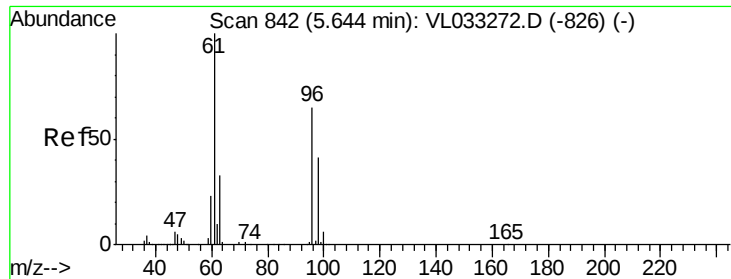
MMDadoda
3/14/2019 5:05:37 AM



#30
Cyclohexane
Concen: 2.207 ppbv
RT: 7.25 min Scan# 1341
Delta R.T. 0.00 min
Lab File: VL033273.D
Acq: 12 Mar 2019 2:58

Tgt Ion: 84 Resp: 165636
Ion Ratio Lower Upper
84 100
56 161.8 112.0 168.0
41 85.6 69.9 104.9





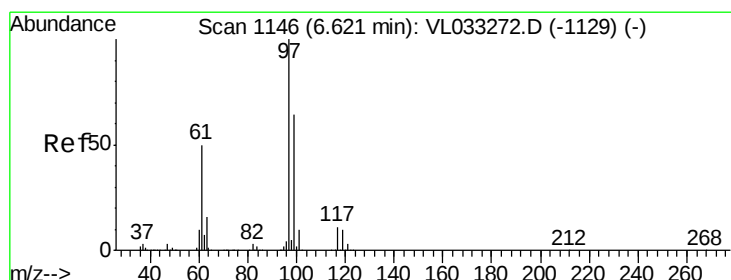
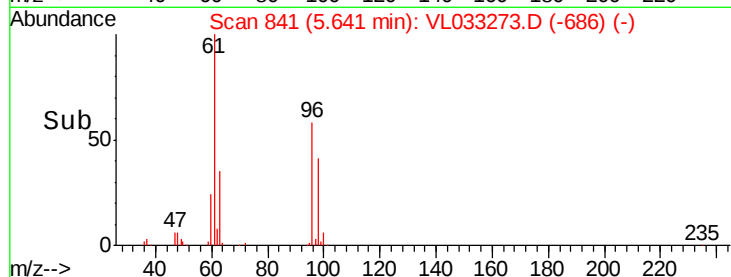
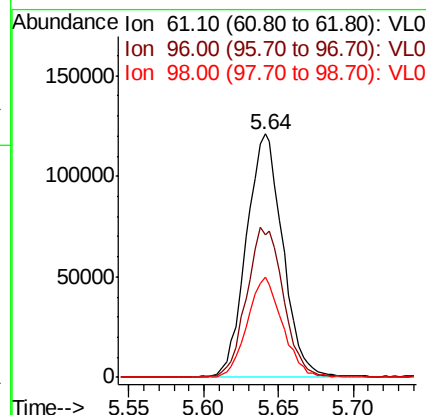
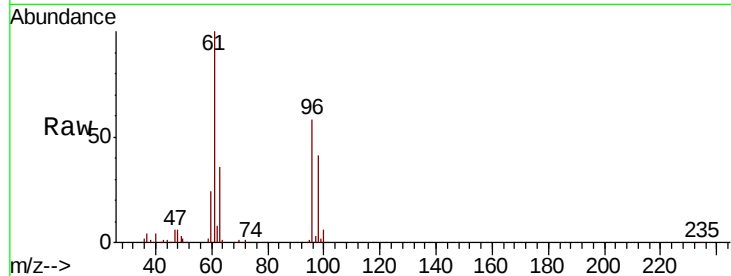
#31
 cis-1,2-Dichloroethene
 Concen: 2.177 ppbv
 RT: 5.64 min Scan# 841
 Delta R.T. -0.00 min
 Lab File: VL033273.D
 Acq: 12 Mar 2019 2:58

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tgt Ion	Ratio	Resp	Lower	Upper
61	100	205534		
96	58.3		51.8	77.8
98	41.1		32.9	49.3

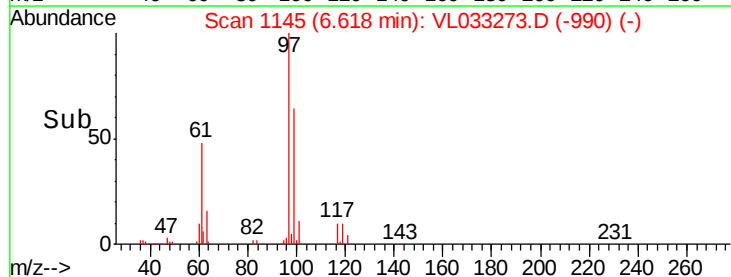
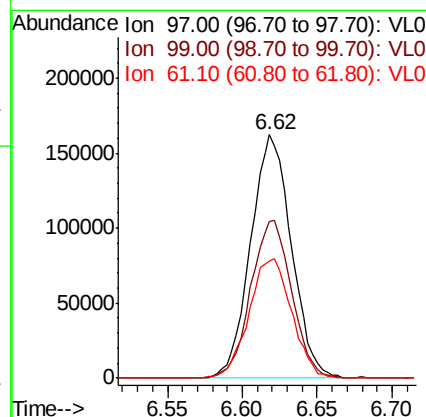
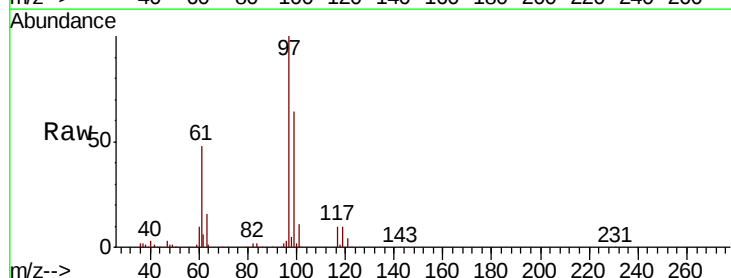
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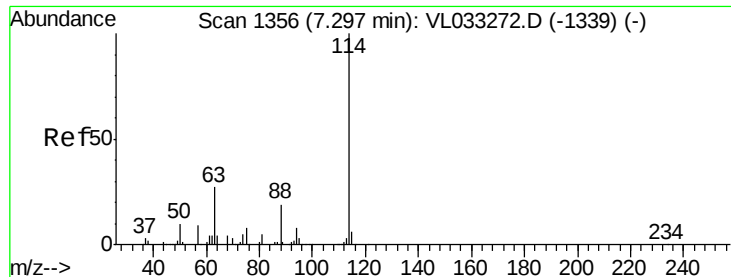
MMDadoda
 3/14/2019 5:05:37 AM



#32
 1,1,1-Trichloroethane
 Concen: 2.144 ppbv
 RT: 6.62 min Scan# 1145
 Delta R.T. -0.00 min
 Lab File: VL033273.D
 Acq: 12 Mar 2019 2:58

Tgt Ion	Ratio	Resp	Lower	Upper
97	100	307136		
99	65.3		51.7	77.5
61	51.6		39.7	59.5





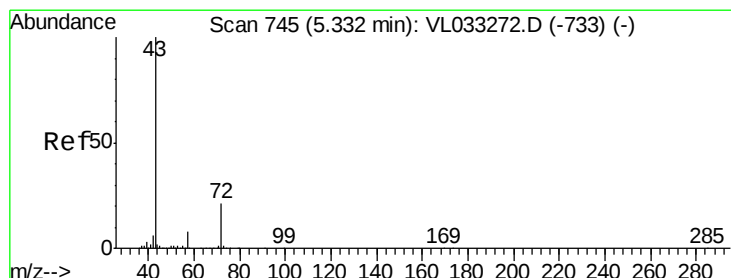
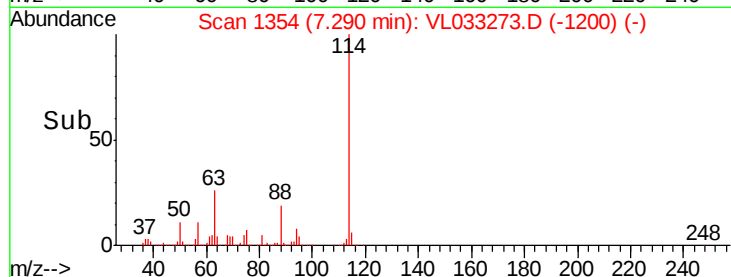
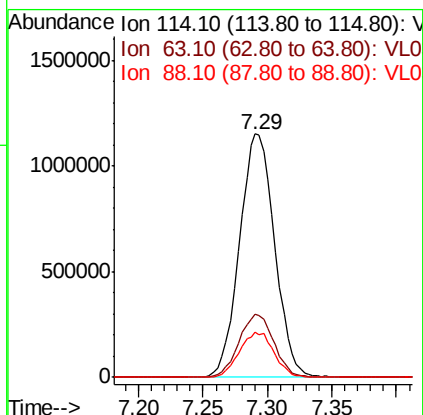
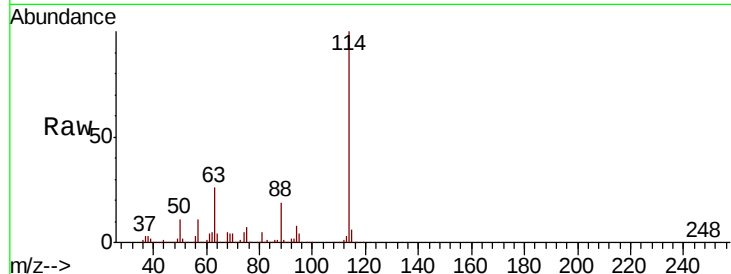
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1354
 Delta R.T. -0.01 min
 Lab File: VL033273.D
 Acq: 12 Mar 2019 2:58

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tgt Ion	Ratio	Lower	Upper
114	100		
63	26.0	21.5	32.3
88	18.3	14.6	22.0

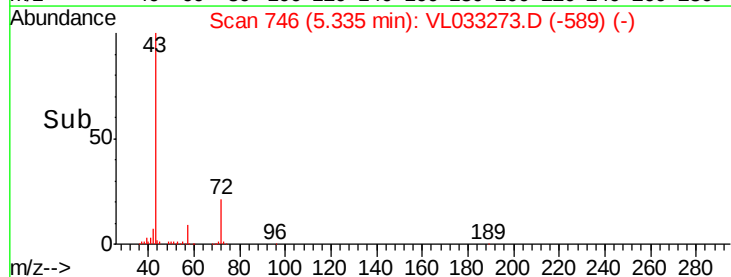
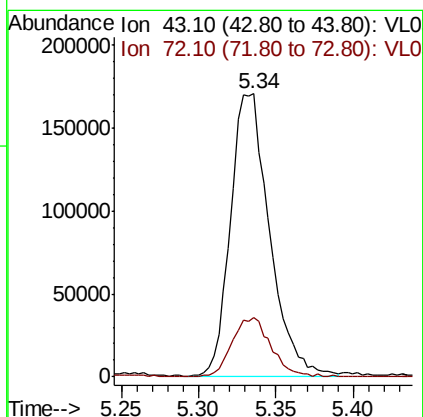
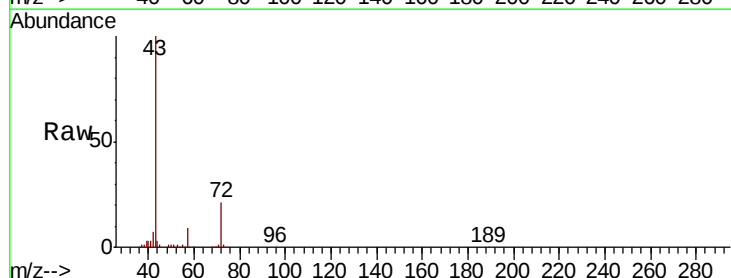
Manual Integrations
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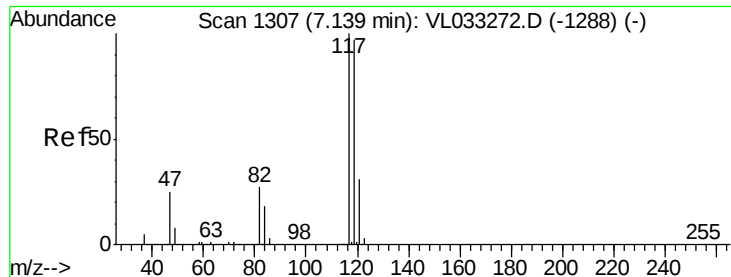
MMDadoda
 3/14/2019 5:05:37 AM



#34
 2-Butanone
 Concen: 2.207 ppbv
 RT: 5.34 min Scan# 746
 Delta R.T. 0.00 min
 Lab File: VL033273.D
 Acq: 12 Mar 2019 2:58

Tgt Ion	Ratio	Lower	Upper
43	100		
72	21.3	17.0	25.6





#35

Carbon Tetrachloride

Concen: 2.157 ppbv

RT: 7.13 min Scan# 1305

Delta R.T. -0.01 min

Lab File: VL033273.D

Acq: 12 Mar 2019 2:58

Instrument :

MSVOA_L

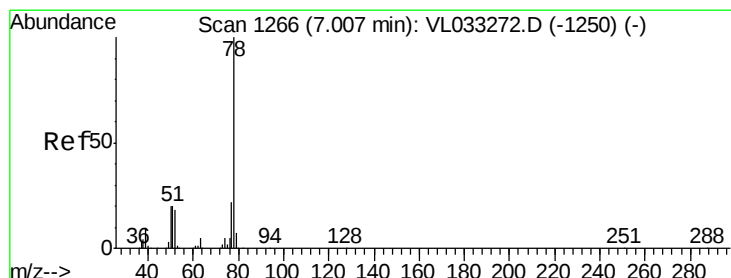
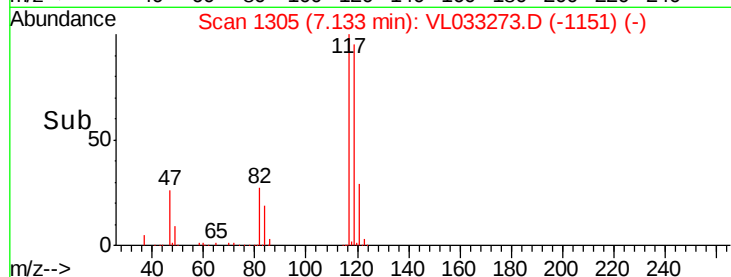
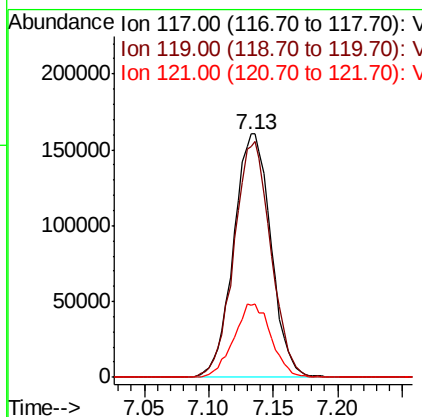
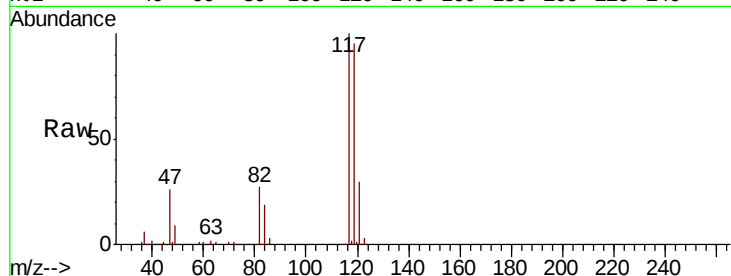
ClientSampleId :

VSTDIC002

Tgt Ion:	117	Resp:	322326
Ion Ratio	Lower	Upper	
117	100		
119	94.6	77.4	116.0
121	29.6	24.9	37.3

Manual Integrations
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MMDadoda
3/14/2019 5:05:37 AM



#36

Benzene

Concen: 2.160 ppbv

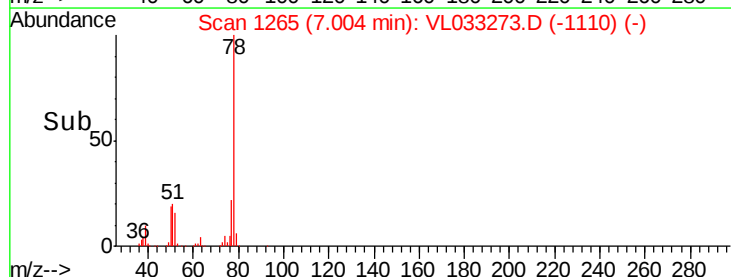
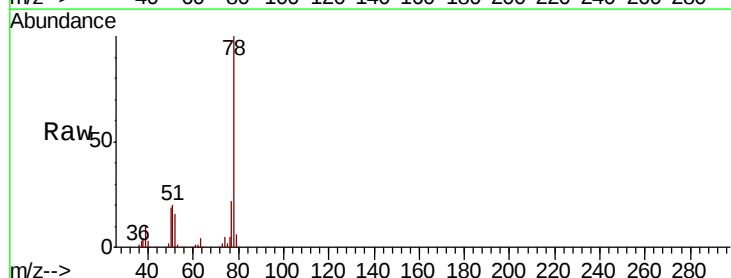
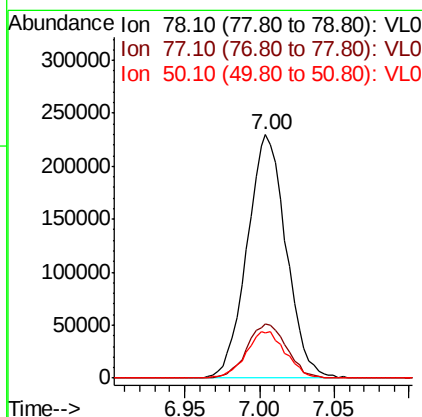
RT: 7.00 min Scan# 1265

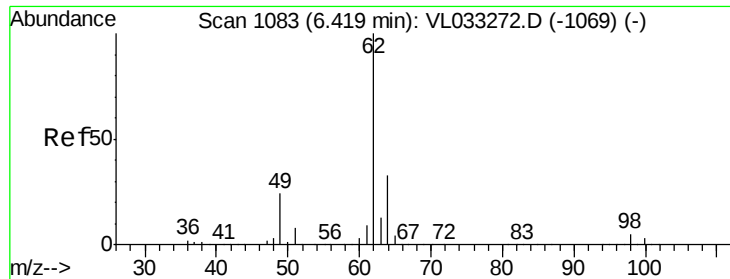
Delta R.T. -0.00 min

Lab File: VL033273.D

Acq: 12 Mar 2019 2:58

Tgt Ion:	78	Resp:	416437
Ion Ratio	Lower	Upper	
78	100		
77	22.4	17.7	26.5
50	18.6	15.7	23.5





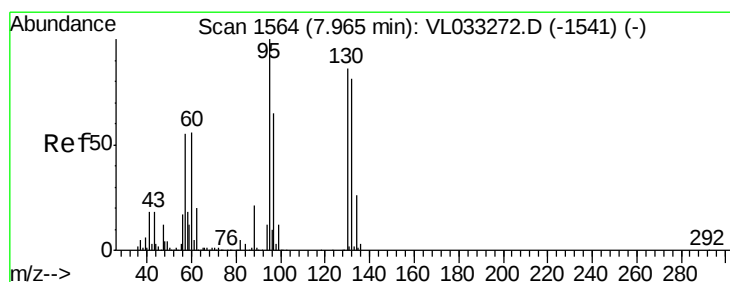
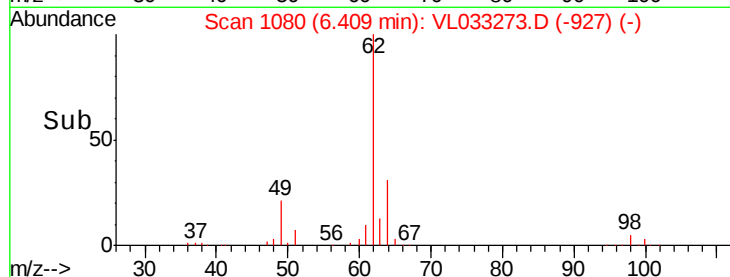
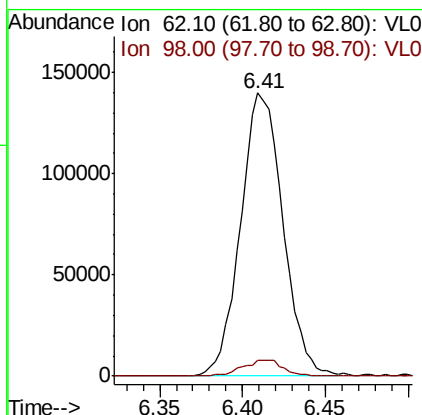
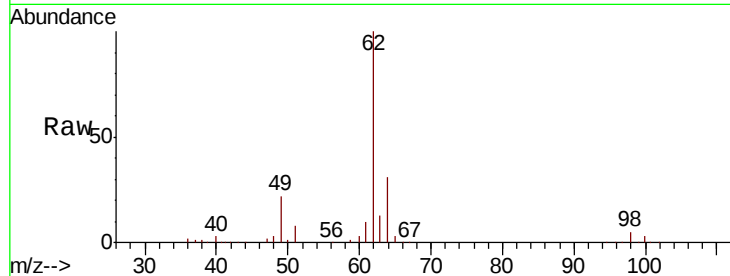
#37
 1,2-Dichloroethane
 Concen: 2.008 ppbv
 RT: 6.41 min Scan# 1080
 Delta R.T. -0.01 min
 Lab File: VL033273.D
 Acq: 12 Mar 2019 2:58

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tgt Ion	Ratio	Resp	Lower	Upper
62	100	247289		
98	5.5	4.5	6.7	

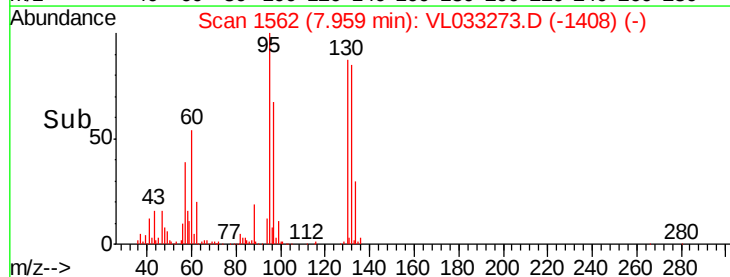
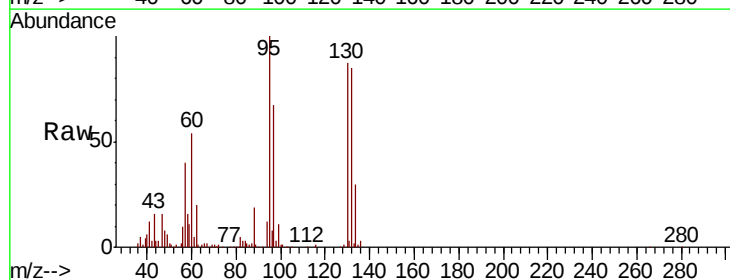
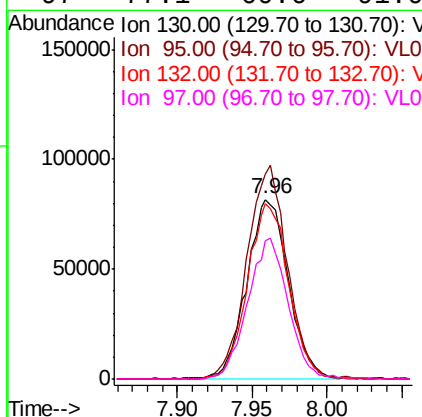
Manual Integrations
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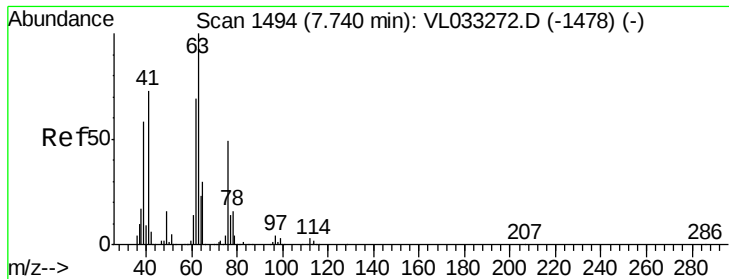
MMDadoda
 3/14/2019 5:05:37 AM



#38
 Trichloroethene
 Concen: 2.177 ppbv
 RT: 7.96 min Scan# 1562
 Delta R.T. -0.01 min
 Lab File: VL033273.D
 Acq: 12 Mar 2019 2:58

Tgt Ion	Ratio	Resp	Lower	Upper
130	100	158842		
95	114.4	93.3	139.9	
132	97.6	75.4	113.2	
97	77.1	60.6	91.0	





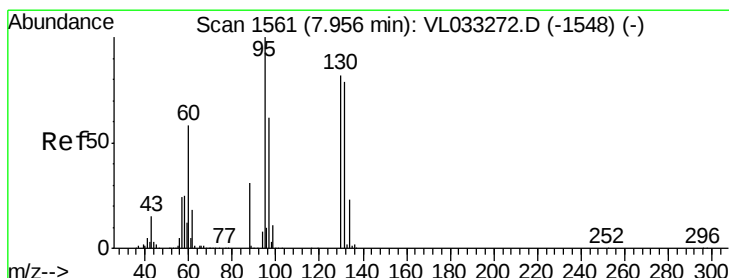
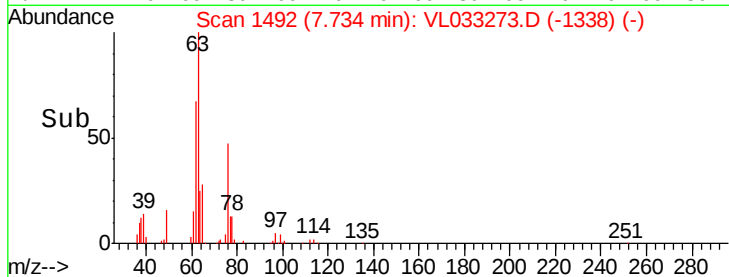
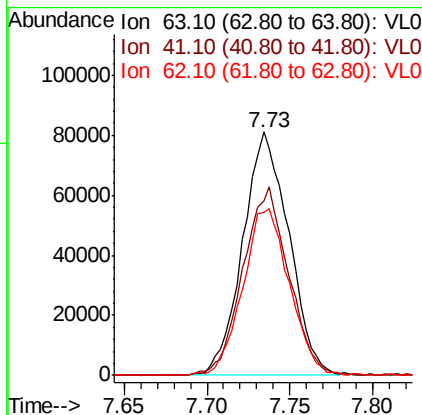
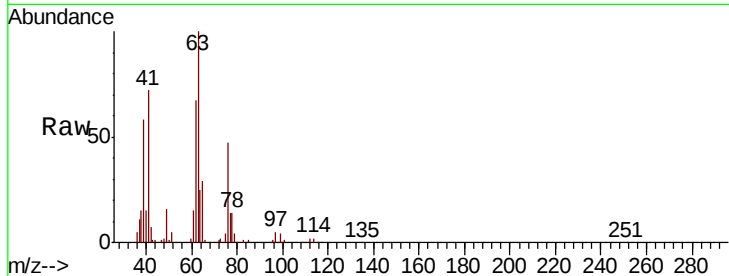
#39
 1,2-Dichloropropane
 Concen: 2.118 ppbv
 RT: 7.73 min Scan# 1492
 Delta R.T. -0.01 min
 Lab File: VL033273.D
 Acq: 12 Mar 2019 2:58

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tgt Ion	Ratio	Lower	Upper
63	100		
41	71.8	58.3	87.5
62	66.9	55.3	82.9

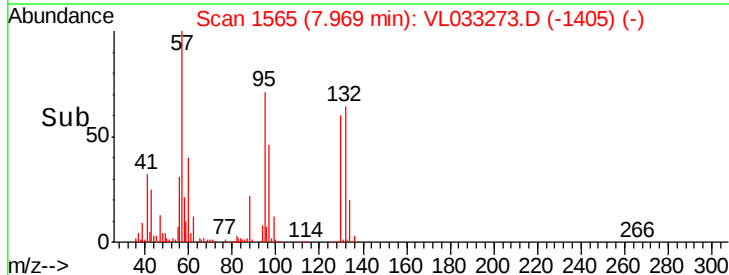
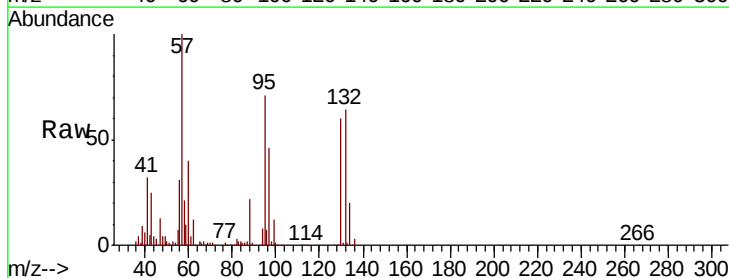
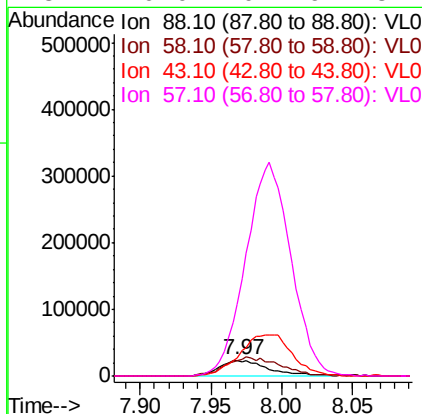
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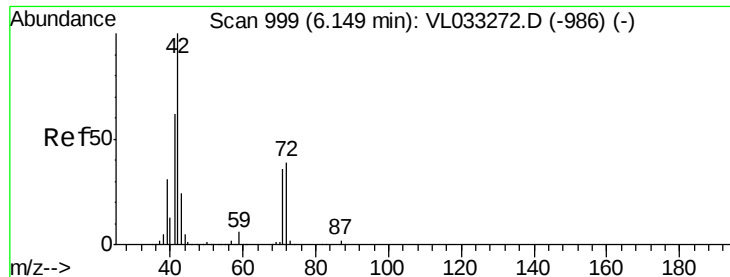
MMDadoda
 3/14/2019 5:05:37 AM



#40
 1,4-Dioxane
 Concen: 2.093 ppbv m
 RT: 7.97 min Scan# 1565
 Delta R.T. 0.01 min
 Lab File: VL033273.D
 Acq: 12 Mar 2019 2:58

Tgt Ion	Ratio	Lower	Upper
88	100		
58	0.0	107.0	160.6#
43	0.0	230.2	345.4#
57	0.0	1014.9	1522.3#





#41

Tetrahydrofuran

Concen: 2.098 ppbv

RT: 6.16 min Scan# 1001

Delta R.T. 0.01 min

Lab File: VL033273.D

Acq: 12 Mar 2019 2:58

Instrument :

MSVOA_L

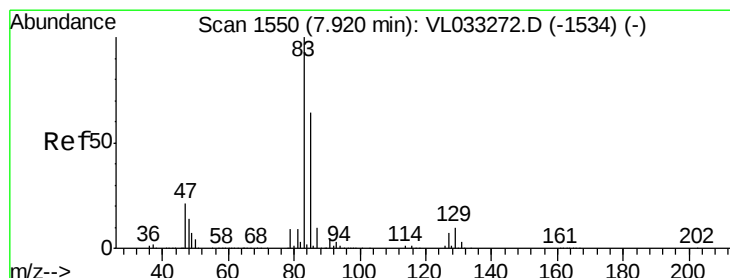
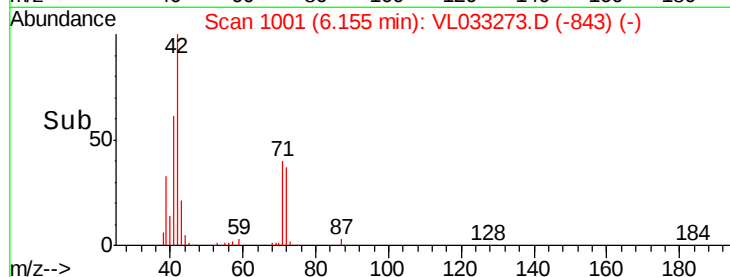
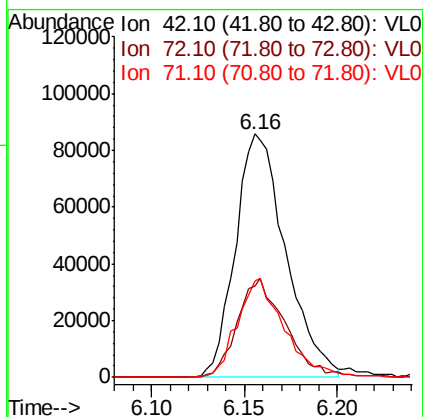
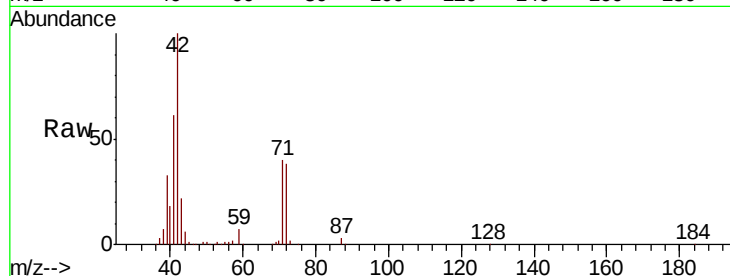
ClientSampleId :

VSTDIC002

Tgt Ion:	42	Resp:	160564
Ion Ratio		Lower	Upper
42	100		
72	39.2	30.6	46.0
71	38.1	29.7	44.5

Manual Integrations
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MMDadoda
3/14/2019 5:05:37 AM



#42

Bromodichloromethane

Concen: 2.072 ppbv

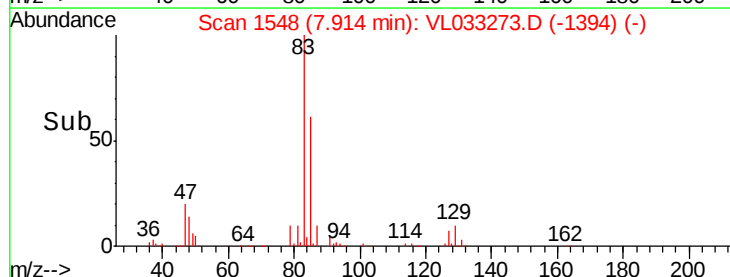
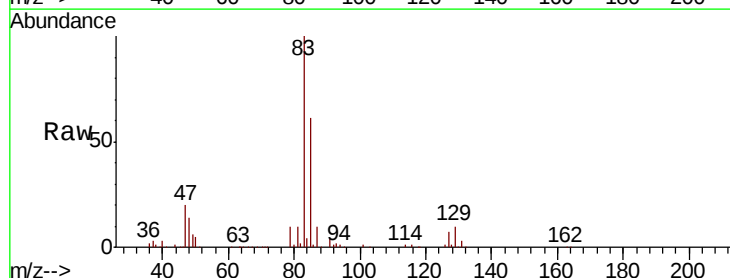
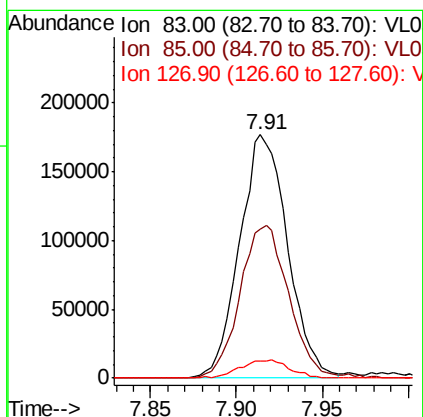
RT: 7.91 min Scan# 1548

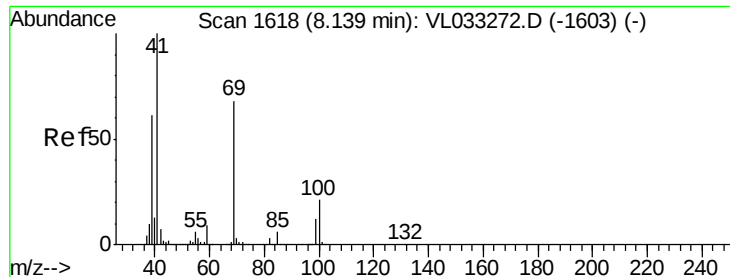
Delta R.T. -0.01 min

Lab File: VL033273.D

Acq: 12 Mar 2019 2:58

Tgt Ion:	83	Resp:	340460
Ion Ratio		Lower	Upper
83	100		
85	60.9	51.0	76.4
127	6.8	6.0	9.0





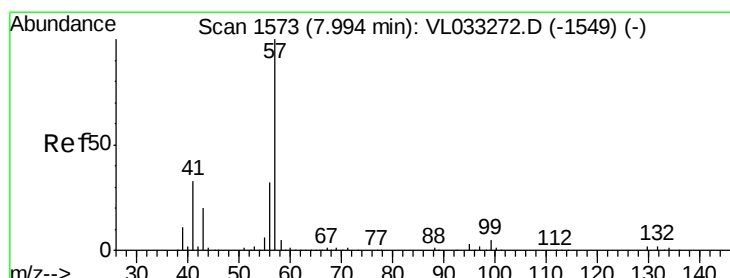
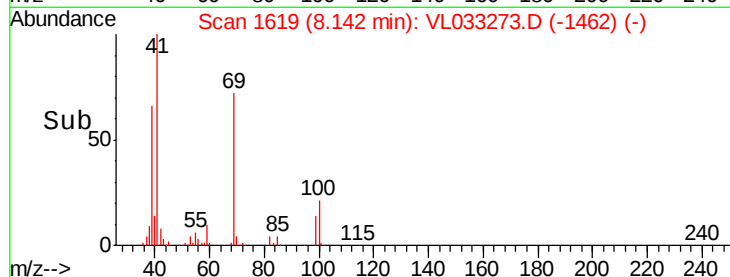
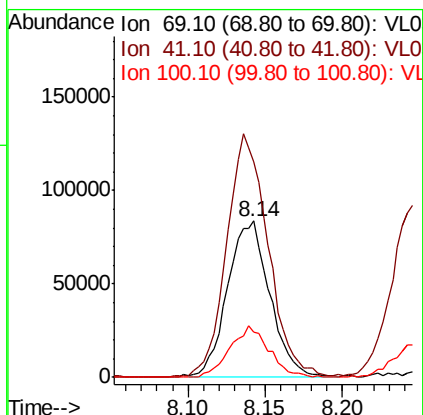
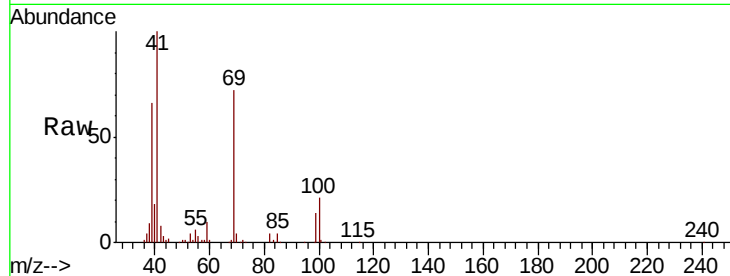
#43
Methyl Methacrylate
Concen: 2.081 ppbv
RT: 8.14 min Scan# 1619
Delta R.T. 0.00 min
Lab File: VL033273.D
Acq: 12 Mar 2019 2:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tgt Ion: 69 Resp: 156744
Ion Ratio Lower Upper
69 100
41 155.1 121.0 181.4
100 31.0 24.4 36.6

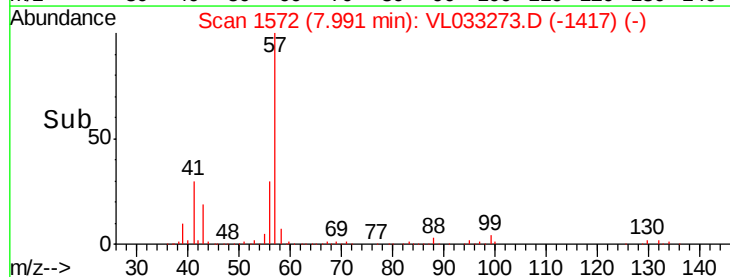
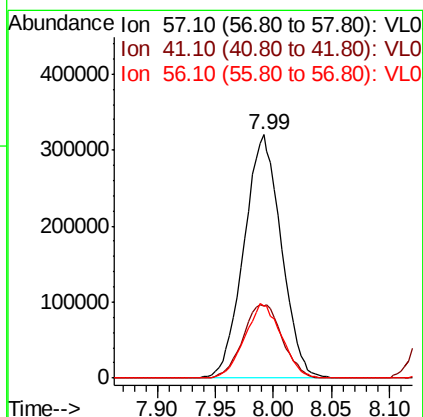
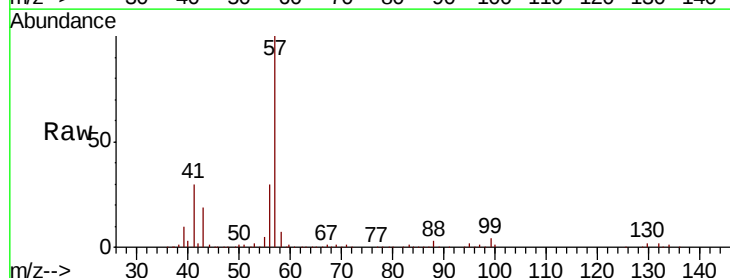
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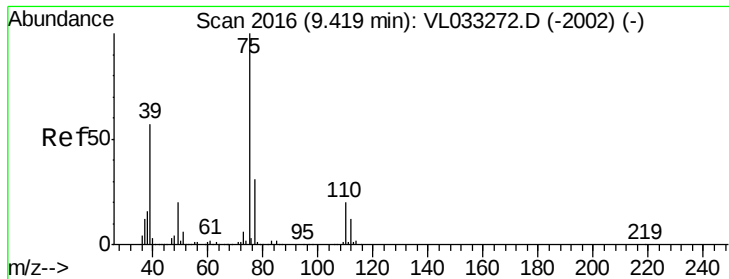
MMDadoda
3/14/2019 5:05:37 AM



#44
2,2,4-Trimethylpentane
Concen: 2.155 ppbv
RT: 7.99 min Scan# 1572
Delta R.T. -0.00 min
Lab File: VL033273.D
Acq: 12 Mar 2019 2:58

Tgt Ion: 57 Resp: 716698
Ion Ratio Lower Upper
57 100
41 32.1 26.2 39.2
56 30.4 24.8 37.2





#45

t-1,3-Dichloropropene

Concen: 2.184 ppbv

RT: 9.41 min Scan# 2014

Delta R.T. -0.01 min

Lab File: VL033273.D

Acq: 12 Mar 2019 2:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tgt Ion: 75 Resp: 199468

Ion Ratio Lower Upper

75 100

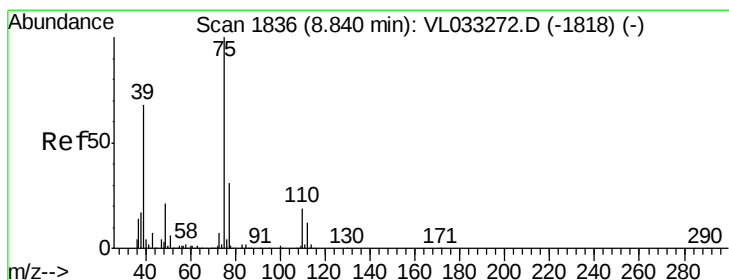
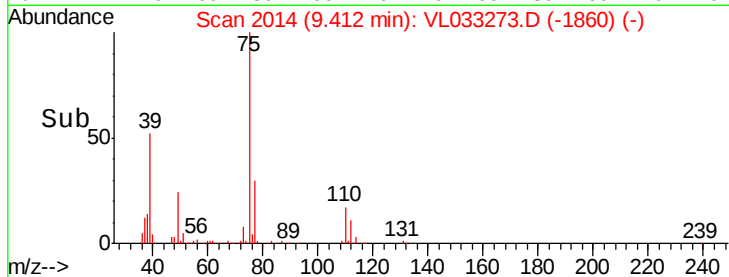
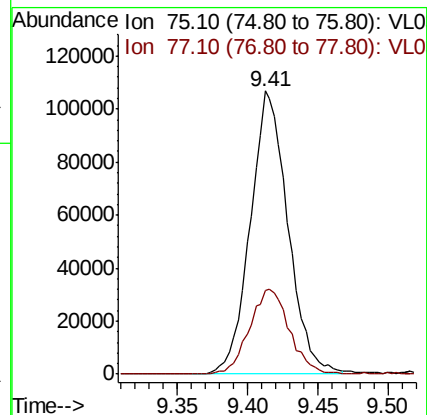
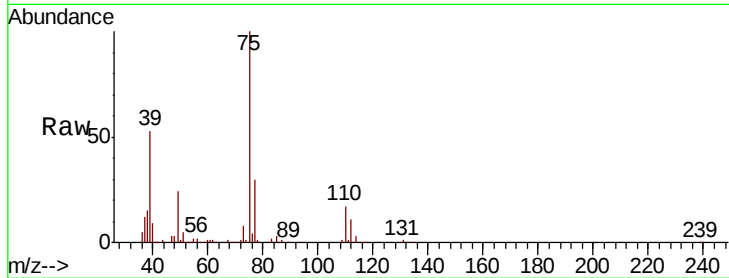
77 29.7 24.4 36.6

Manual Integrations

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#46

cis-1,3-Dichloropropene

Concen: 2.118 ppbv

RT: 8.84 min Scan# 1835

Delta R.T. -0.00 min

Lab File: VL033273.D

Acq: 12 Mar 2019 2:58

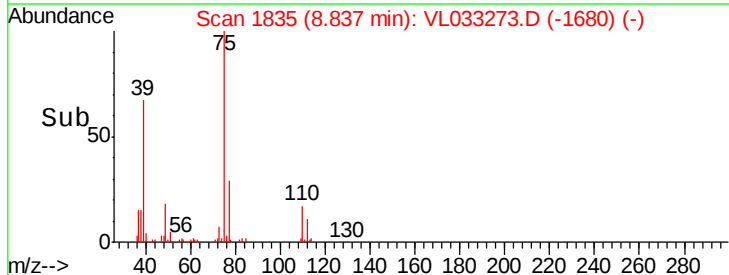
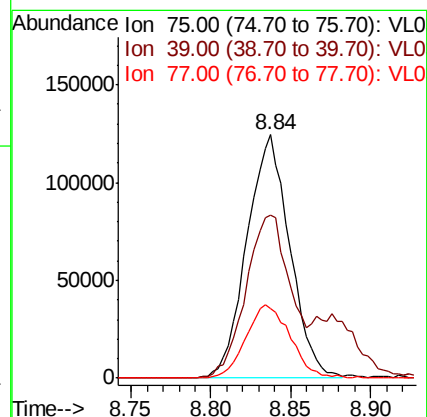
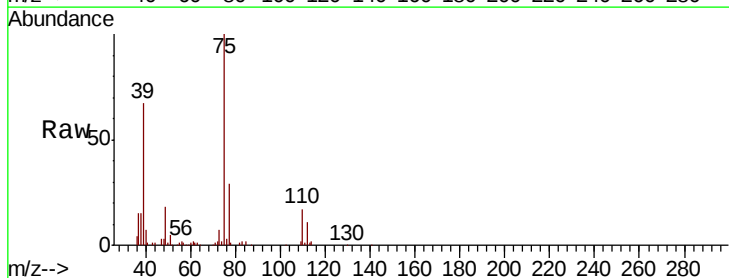
Tgt Ion: 75 Resp: 227951

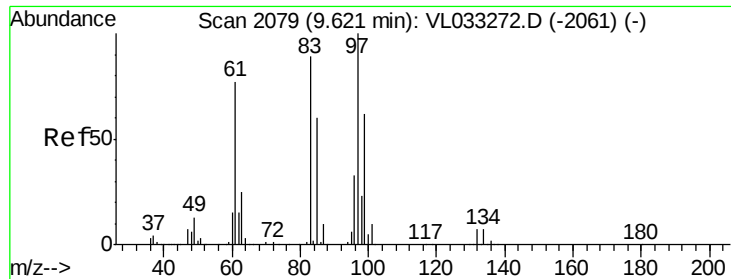
Ion Ratio Lower Upper

75 100

39 66.9 54.2 81.2

77 28.7 24.5 36.7





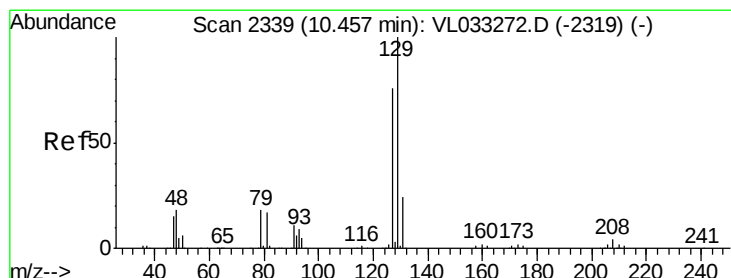
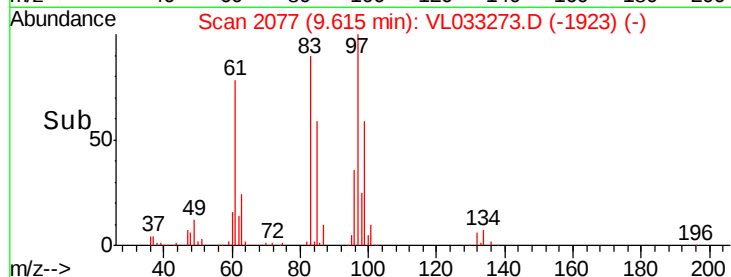
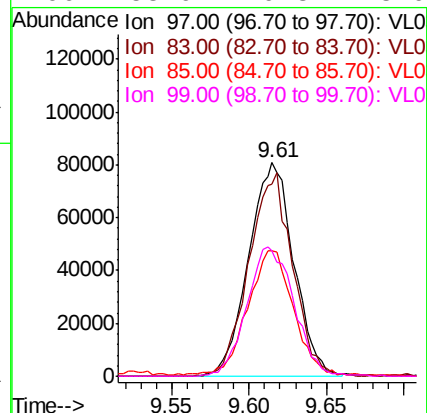
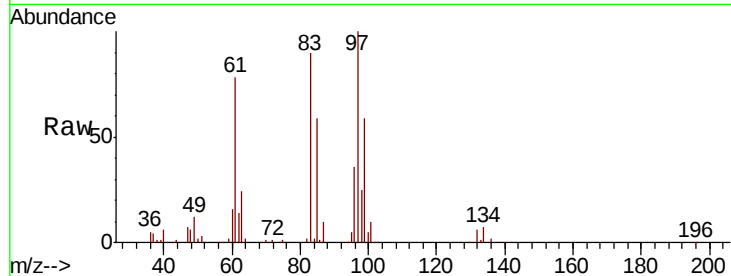
#47
 1,1,2-Trichloroethane
 Concen: 2.070 ppbv
 RT: 9.61 min Scan# 2077
 Delta R.T. -0.01 min
 Lab File: VL033273.D
 Acq: 12 Mar 2019 2:58

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tgt Ion	Ratio	Resp	Lower	Upper
97	100	163965		
83	89.8	71.0	106.4	
85	57.8	48.2	72.4	
99	58.9	49.3	73.9	

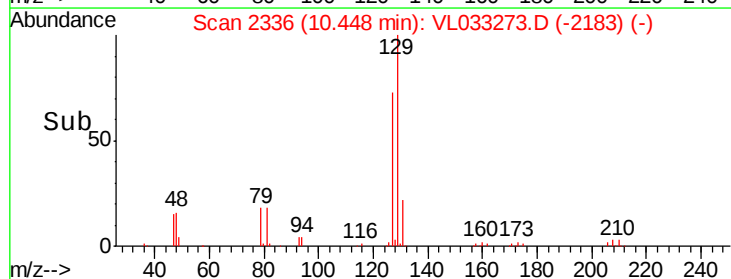
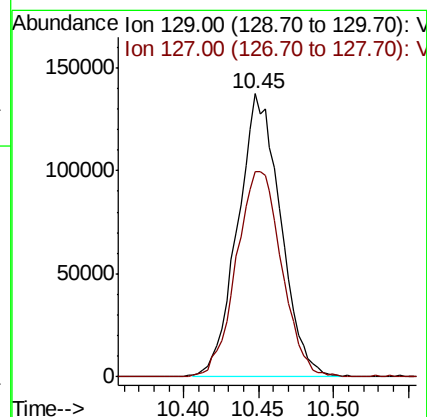
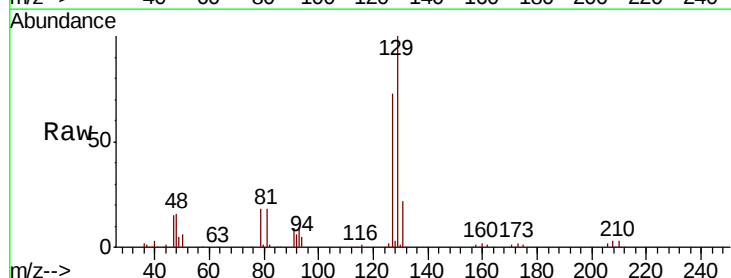
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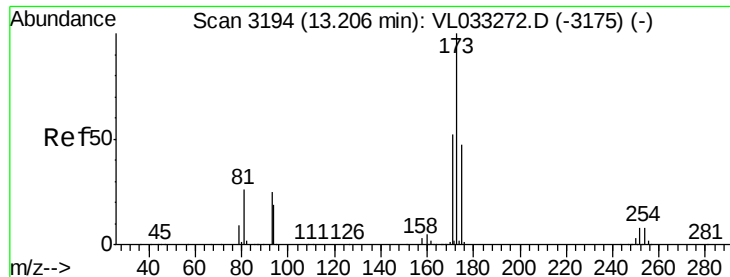
MMDadoda
 3/14/2019 5:05:37 AM



#48
 Dibromochloromethane
 Concen: 2.087 ppbv
 RT: 10.45 min Scan# 2336
 Delta R.T. -0.01 min
 Lab File: VL033273.D
 Acq: 12 Mar 2019 2:58

Tgt Ion	Ratio	Resp	Lower	Upper
129	100	270870		
127	77.9	38.9	116.6	





#49

Bromoform

Concen: 1.901 ppbv

RT: 13.20 min Scan# 3192

Delta R.T. -0.01 min

Lab File: VL033273.D

Acq: 12 Mar 2019 2:58

Instrument :

MSVOA_L

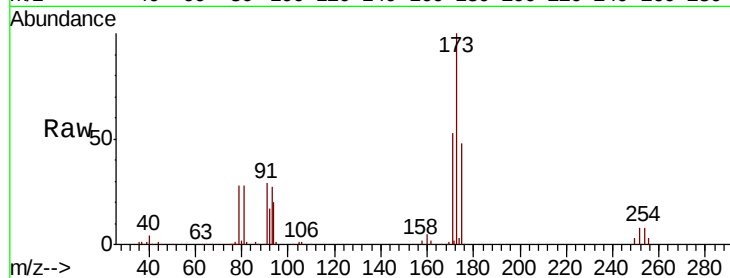
ClientSampleId :

VSTDIC002

Tgt Ion:	173	Resp:	221444
Ion Ratio	Lower	Upper	
173	100		
175	47.2	39.0	58.6
171	51.5	41.2	61.8

Manual Integrations
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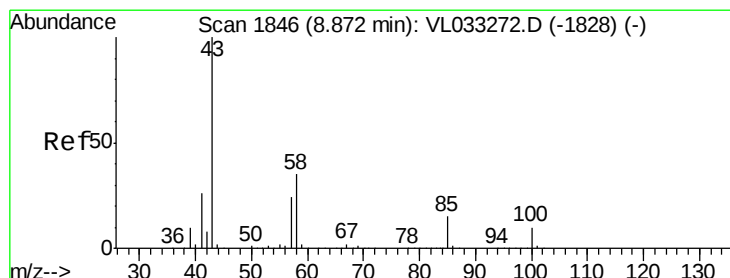
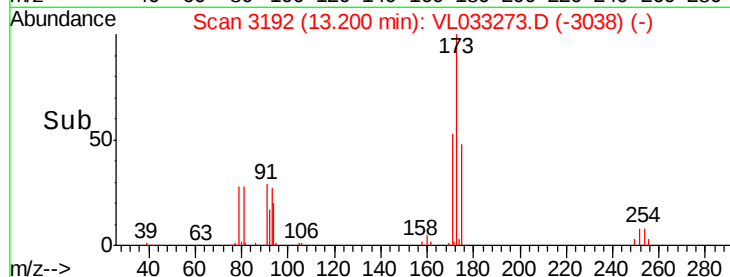
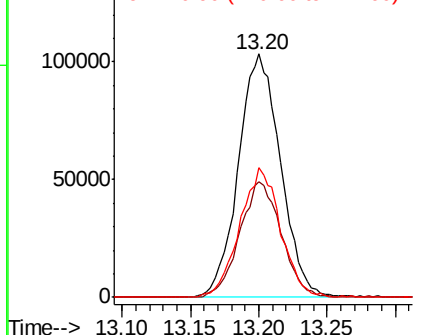
MMDadoda
3/14/2019 5:05:37 AM



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: 2.151 ppbv

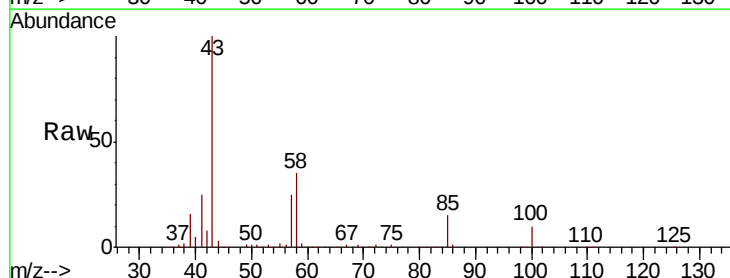
RT: 8.88 min Scan# 1847

Delta R.T. 0.00 min

Lab File: VL033273.D

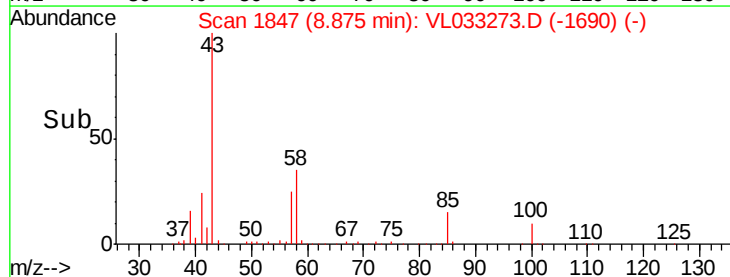
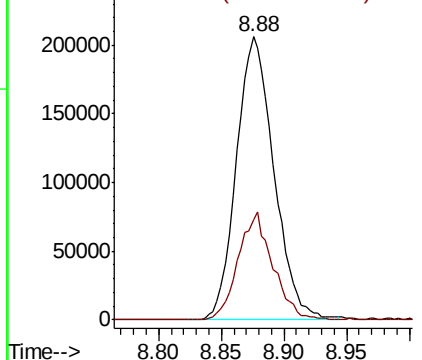
Acq: 12 Mar 2019 2:58

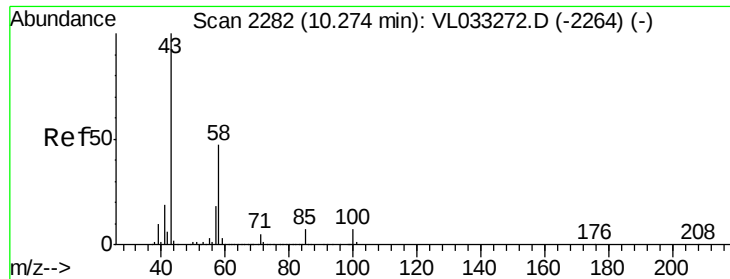
Tgt Ion:	43	Resp:	428664
Ion Ratio	Lower	Upper	
43	100		
58	35.2	28.0	42.0



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





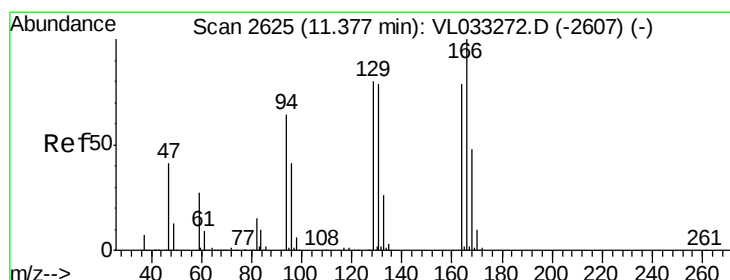
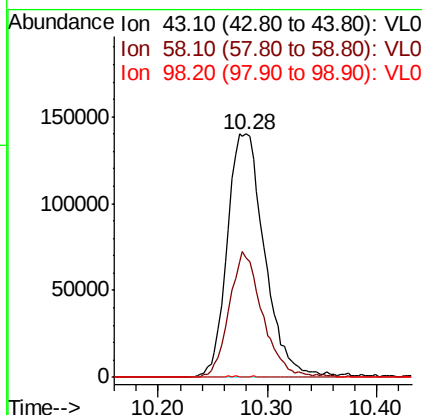
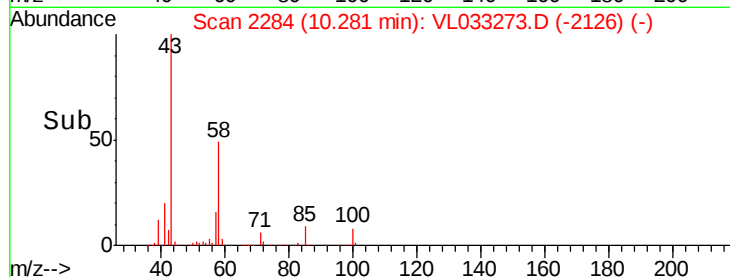
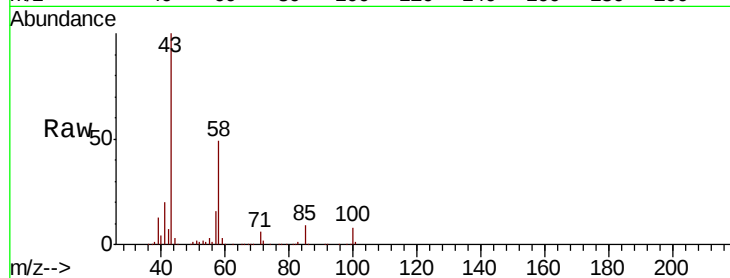
#51
2-Hexanone
Concen: 2.239 ppbv m
RT: 10.28 min Scan# 2284
Delta R.T. 0.01 min
Lab File: VL033273.D
Acq: 12 Mar 2019 2:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tgt Ion	Ratio	Lower	Upper
43	100		
58	0.0	38.1	57.1#
98	0.2	0.1	0.1#

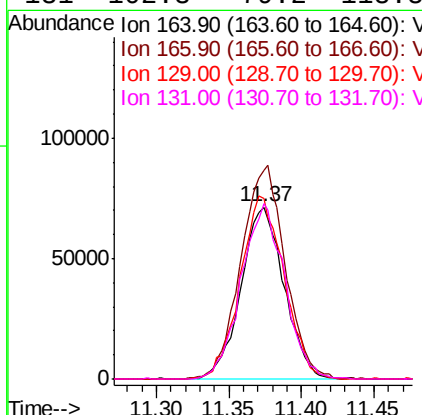
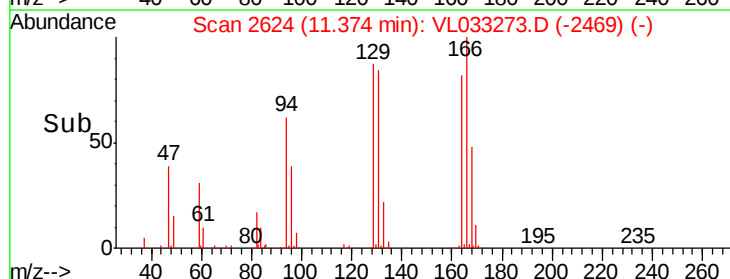
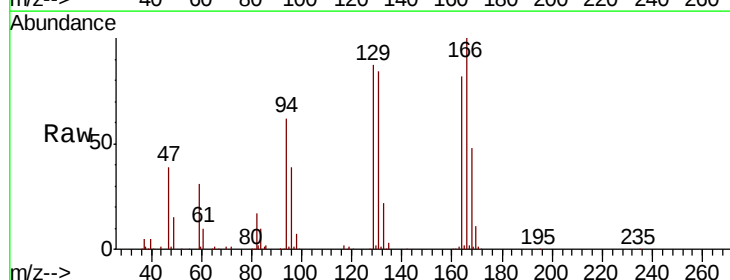
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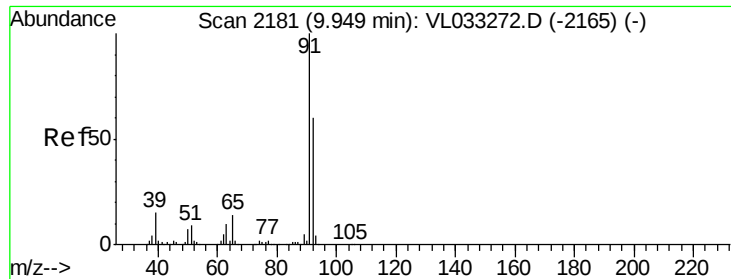
MMDadoda
3/14/2019 5:05:37 AM



#52
Tetrachloroethene
Concen: 2.096 ppbv
RT: 11.37 min Scan# 2624
Delta R.T. -0.00 min
Lab File: VL033273.D
Acq: 12 Mar 2019 2:58

Tgt Ion	Ratio	Lower	Upper
164	100		
166	121.1	100.8	151.2
129	105.3	80.6	121.0
131	102.3	79.2	118.8





#53

Toluene

Concen: 2.248 ppbv

RT: 9.94 min Scan# 2179

Delta R.T. -0.01 min

Lab File: VL033273.D

Acq: 12 Mar 2019 2:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tgt Ion: 91 Resp: 484299

Ion Ratio Lower Upper

91 100

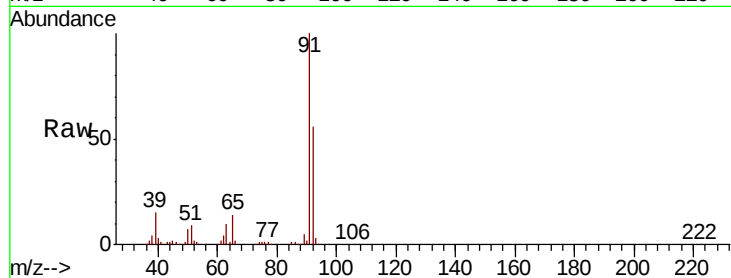
92 59.1 47.8 71.8

Manual Integrations

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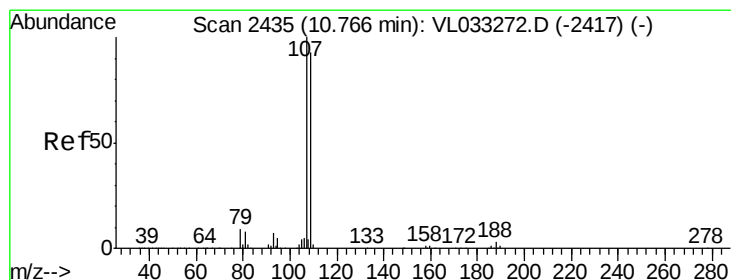
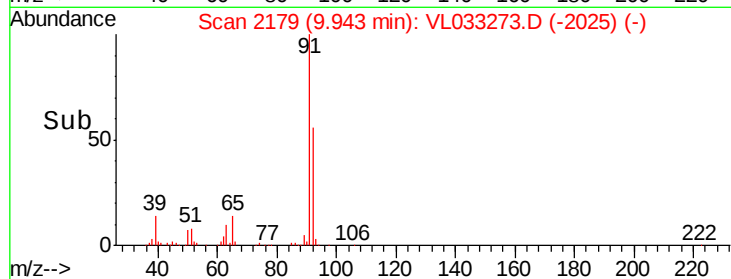
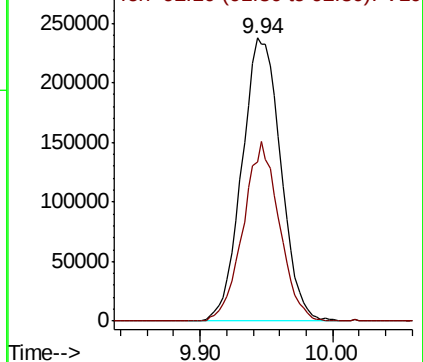
MMDadoda

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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#54

1,2-Dibromoethane

Concen: 2.075 ppbv

RT: 10.76 min Scan# 2434

Delta R.T. -0.00 min

Lab File: VL033273.D

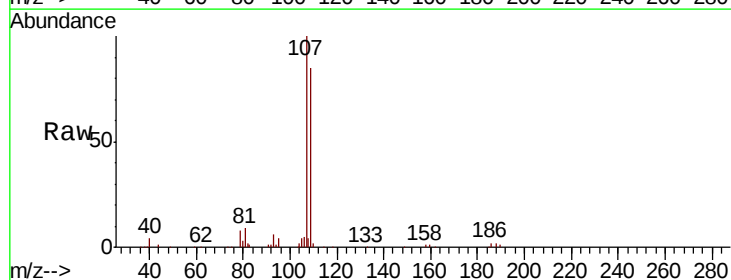
Acq: 12 Mar 2019 2:58

Tgt Ion: 107 Resp: 257750

Ion Ratio Lower Upper

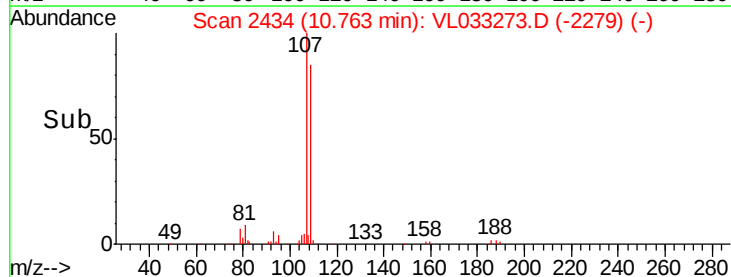
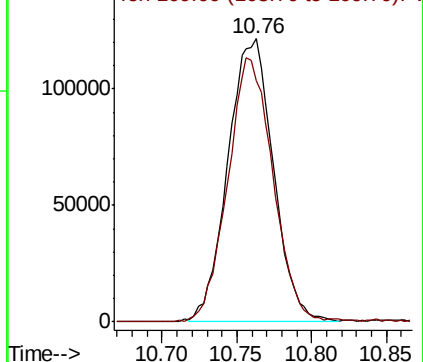
107 100

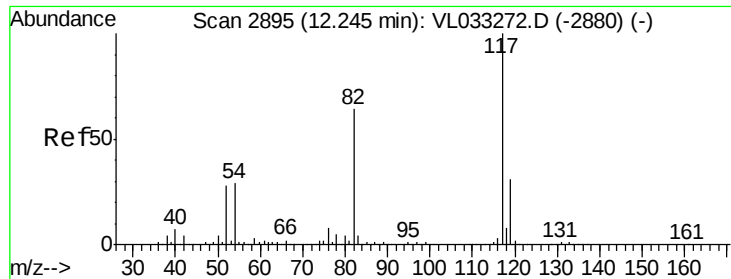
109 84.4 74.2 111.2



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V





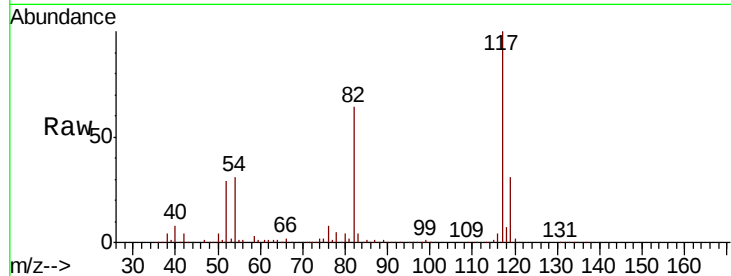
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2894
Delta R.T. -0.00 min
Lab File: VL033273.D
Acq: 12 Mar 2019 2:58

Instrument :
MSVOA_L
ClientSampled :
VSTDIC002

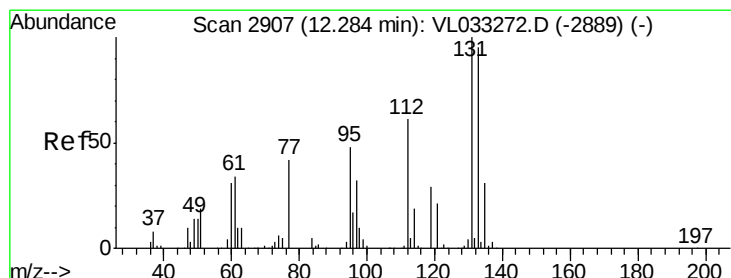
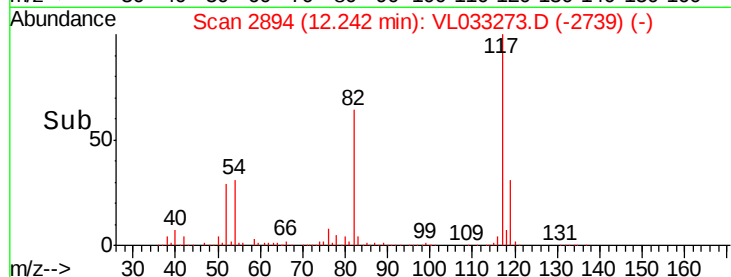
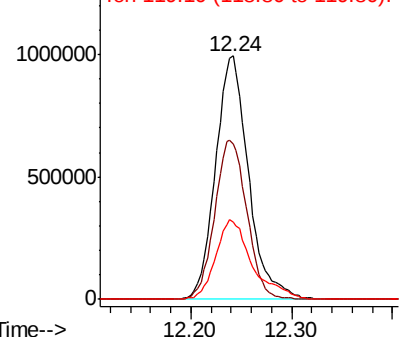
Tgt Ion:117 Resp: 2263960
Ion Ratio Lower Upper
117 100
82 63.8 51.1 76.7
119 36.1 43.6 65.4#

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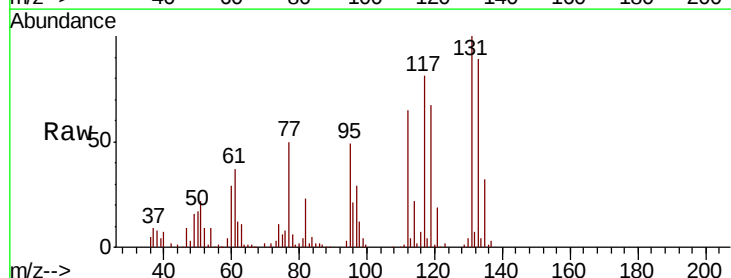


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V

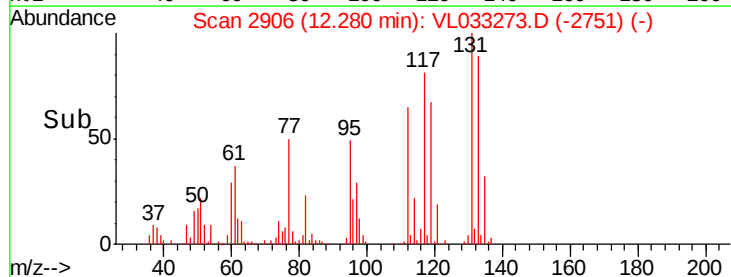
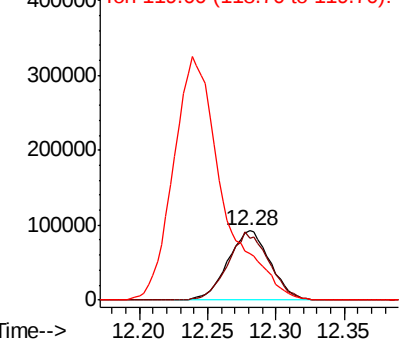


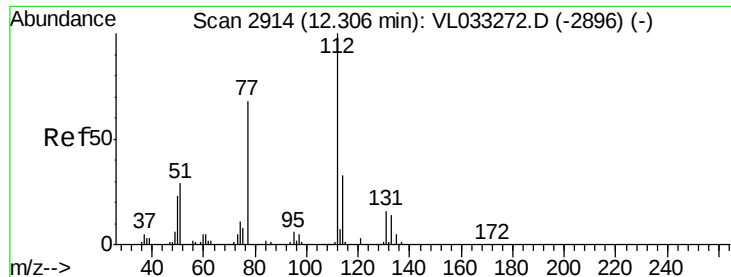
#56
1,1,1,2-Tetrachloroethane
Concen: 2.109 ppbv
RT: 12.28 min Scan# 2906
Delta R.T. -0.00 min
Lab File: VL033273.D
Acq: 12 Mar 2019 2:58

Tgt Ion:131 Resp: 199608
Ion Ratio Lower Upper
131 100
133 94.6 76.2 114.4
119 409.6 110.3 165.5#



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





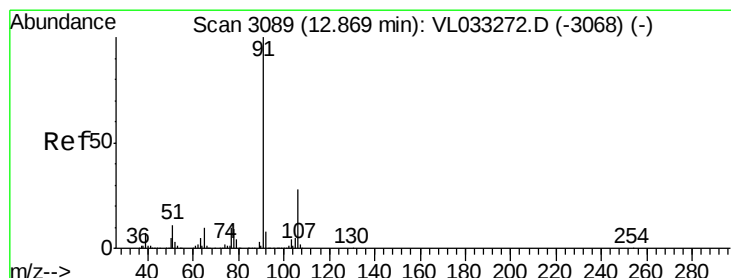
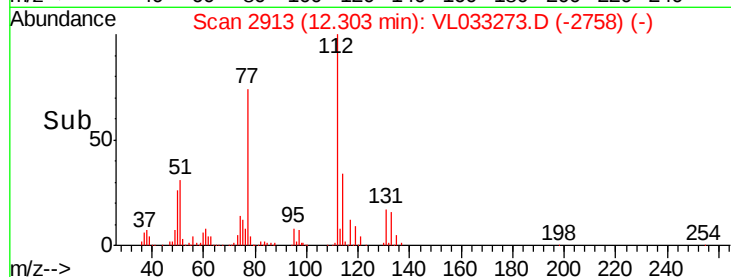
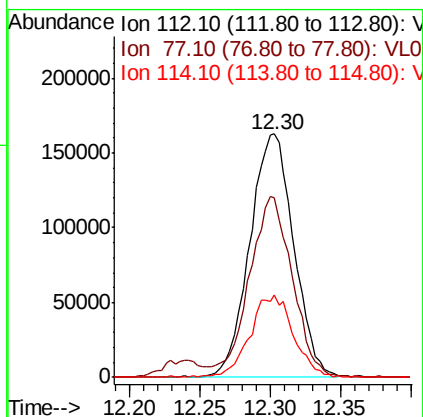
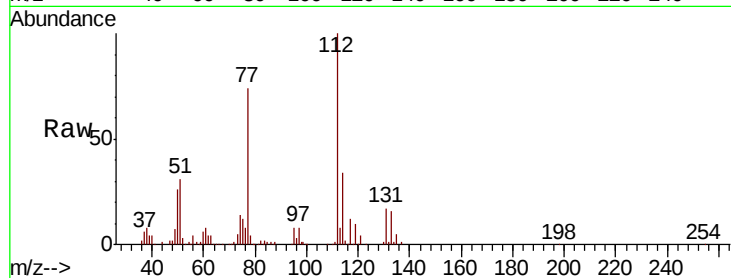
#57
Chlorobenzene
Concen: 2.126 ppbv
RT: 12.30 min Scan# 2913
Delta R.T. -0.00 min
Lab File: VL033273.D
Acq: 12 Mar 2019 2:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tgt Ion	Ratio	Lower	Upper
112	100		
77	73.1	55.8	83.8
114	33.8	29.5	36.1

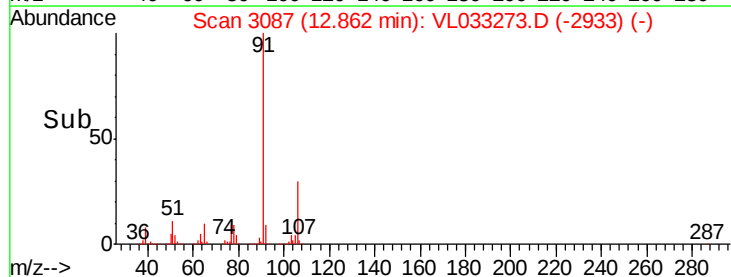
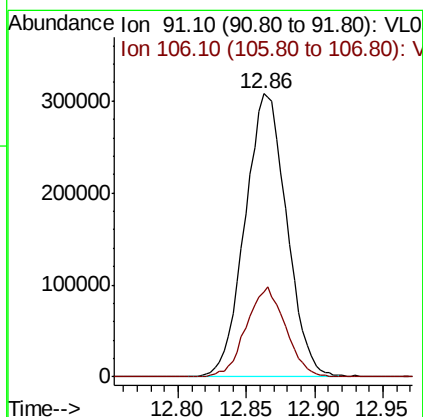
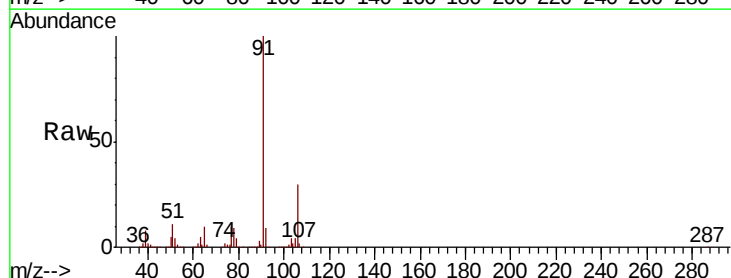
Manual Integrations
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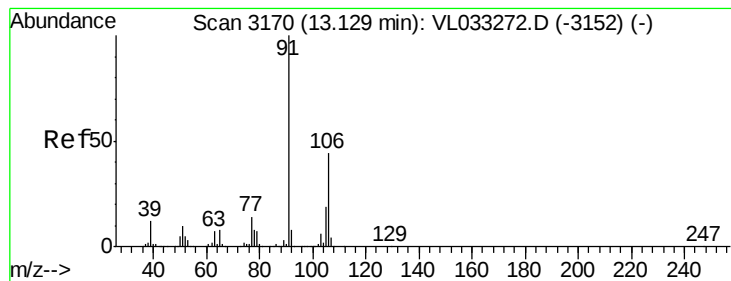
MMDadoda
3/14/2019 5:05:37 AM



#58
Ethyl Benzene
Concen: 2.126 ppbv
RT: 12.86 min Scan# 3087
Delta R.T. -0.01 min
Lab File: VL033273.D
Acq: 12 Mar 2019 2:58

Tgt Ion	Ratio	Lower	Upper
91	100		
106	30.2	22.5	33.7





#59

m/p-Xylene

Concen: 3.951 ppbv m

RT: 13.12 min Scan# 3168

Delta R.T. -0.01 min

Lab File: VL033273.D

Acq: 12 Mar 2019 2:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tgt Ion: 91 Resp: 1096974

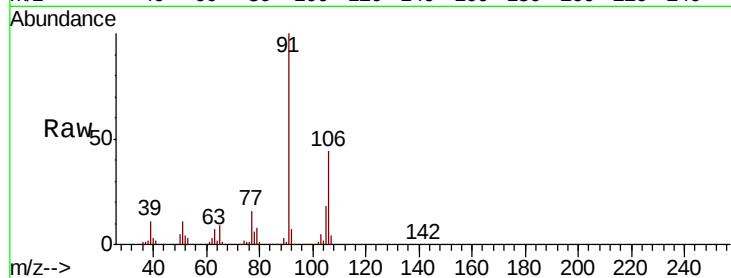
Ion Ratio Lower Upper

91 100

106 0.0 35.5 53.3#

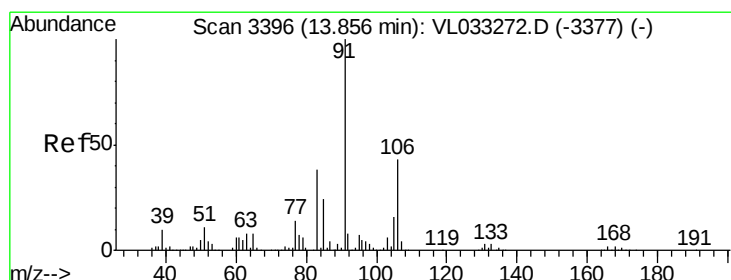
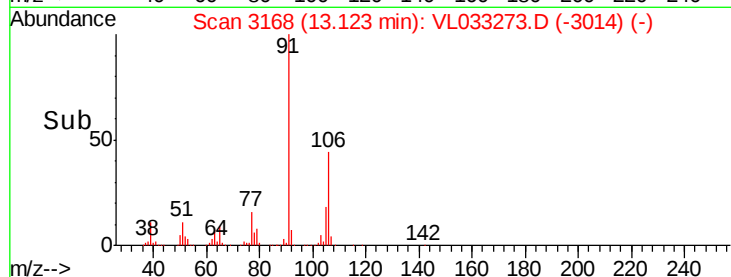
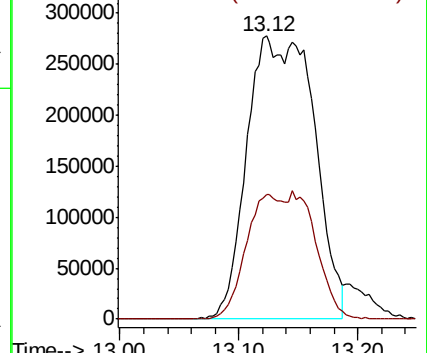
Manual Integrations
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MMDadoda
3/14/2019 5:05:37 AM



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#60

o-Xylene

Concen: 1.962 ppbv

RT: 13.85 min Scan# 3394

Delta R.T. -0.01 min

Lab File: VL033273.D

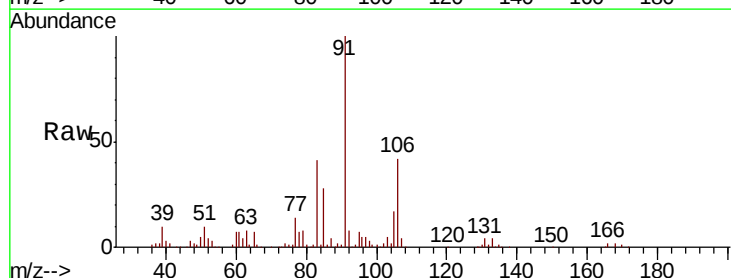
Acq: 12 Mar 2019 2:58

Tgt Ion: 91 Resp: 525784

Ion Ratio Lower Upper

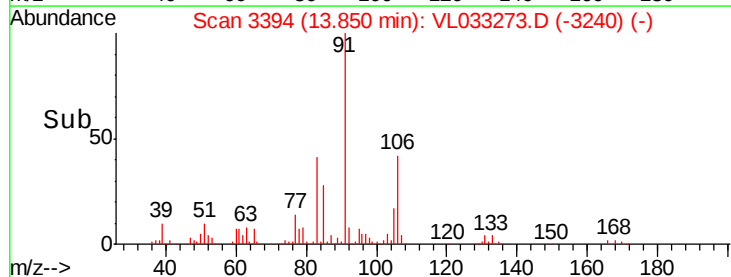
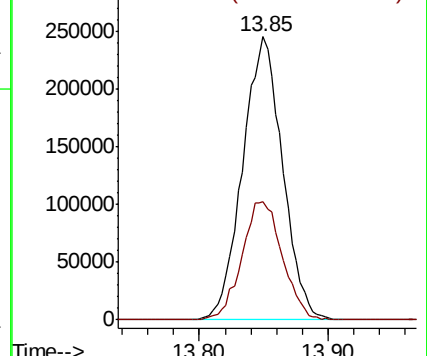
91 100

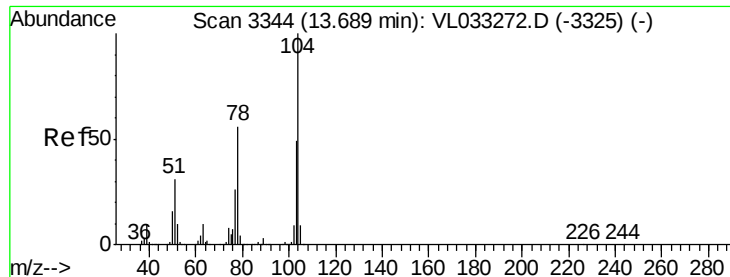
106 42.5 21.3 63.7



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





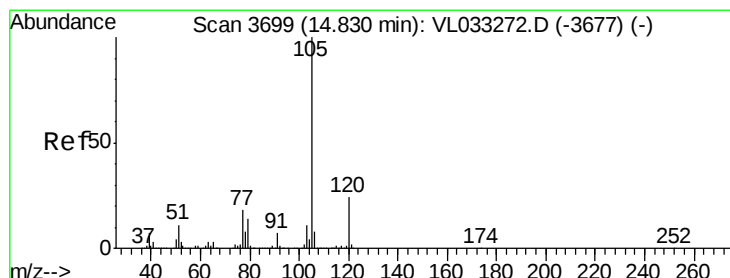
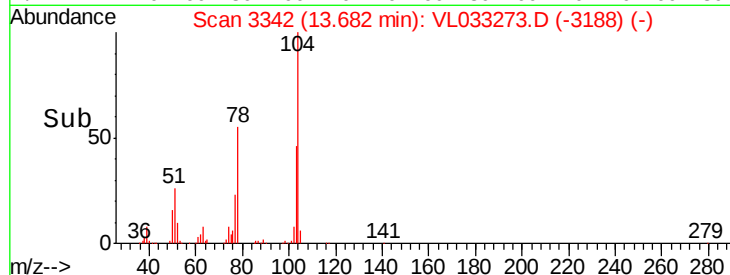
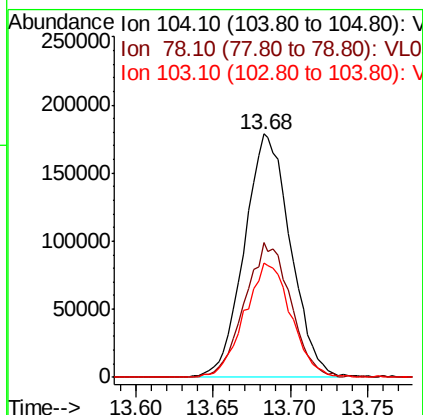
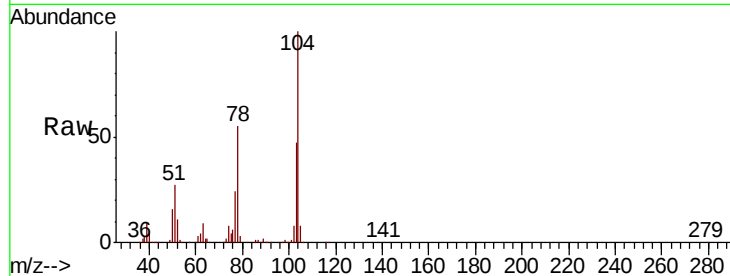
#61
Styrene
Concen: 2.031 ppbv
RT: 13.68 min Scan# 3342
Delta R.T. -0.01 min
Lab File: VL033273.D
Acq: 12 Mar 2019 2:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tgt Ion	Ratio	Resp	Lower	Upper
104	100	371592		
78	54.9	43.3	64.9	
103	47.4	38.0	57.0	

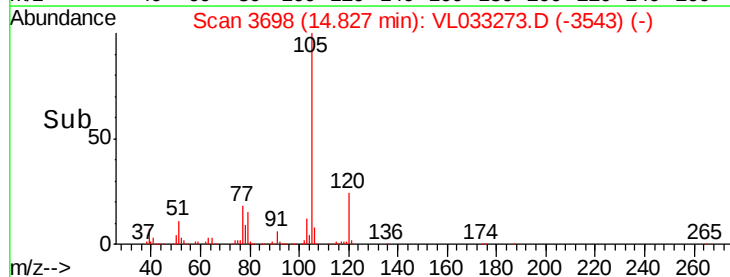
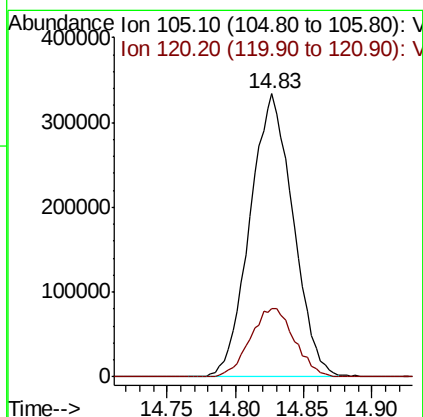
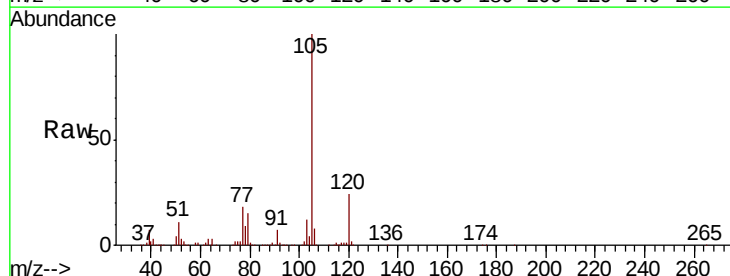
Manual Integrations
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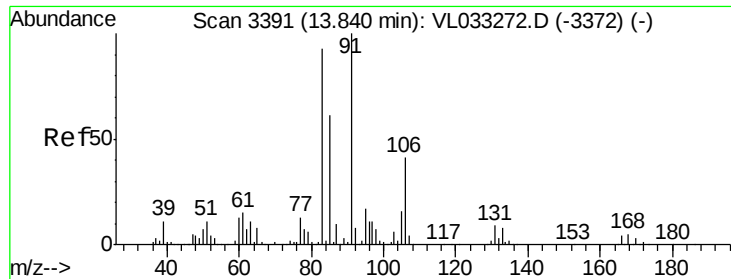
MMDadoda
3/14/2019 5:05:37 AM



#62
Isopropylbenzene
Concen: 2.052 ppbv
RT: 14.83 min Scan# 3698
Delta R.T. -0.00 min
Lab File: VL033273.D
Acq: 12 Mar 2019 2:58

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	733999		
120	25.0	20.0	30.0	





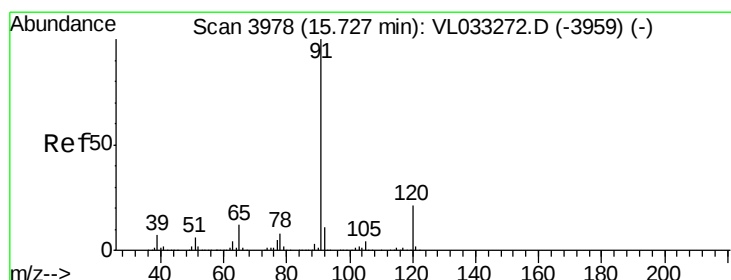
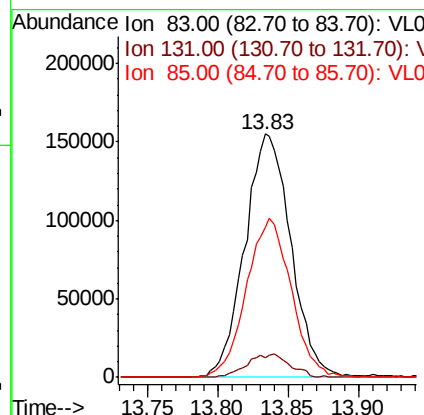
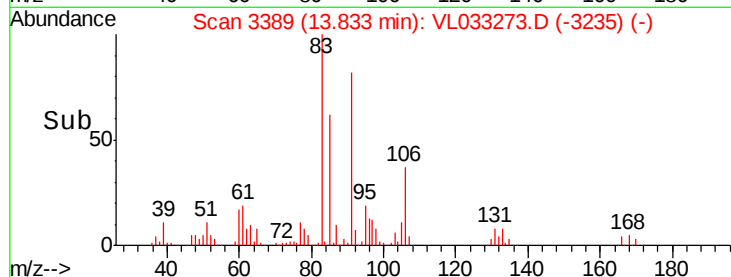
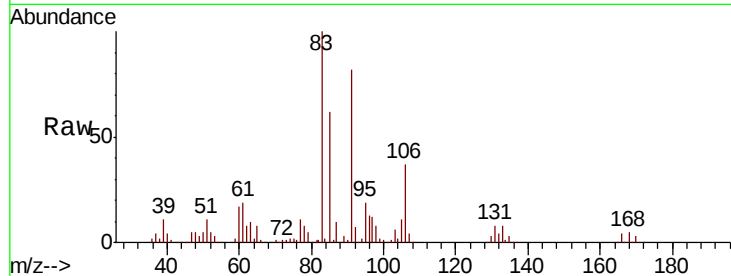
#63
 1,1,2,2-Tetrachloroethane
 Concen: 2.043 ppbv
 RT: 13.83 min Scan# 3389
 Delta R.T. -0.01 min
 Lab File: VL033273.D
 Acq: 12 Mar 2019 2:58

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tgt Ion	Ratio	Resp Lower	Resp Upper
83	100		
131	9.1	4.5	13.7
85	64.2	32.2	96.6

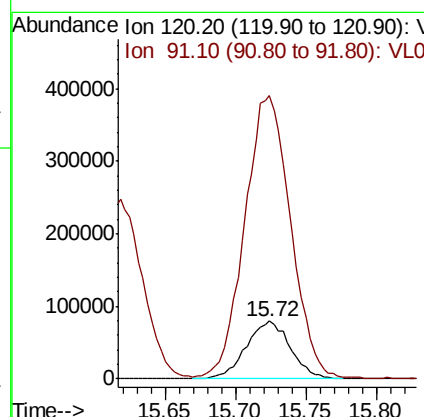
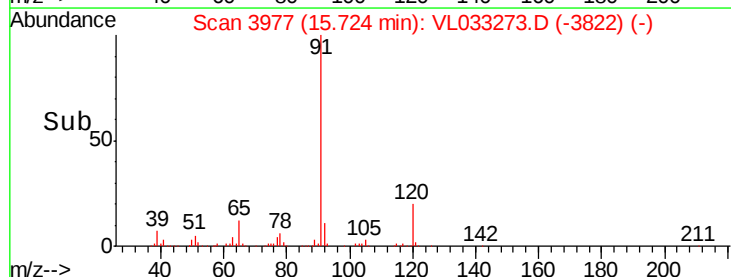
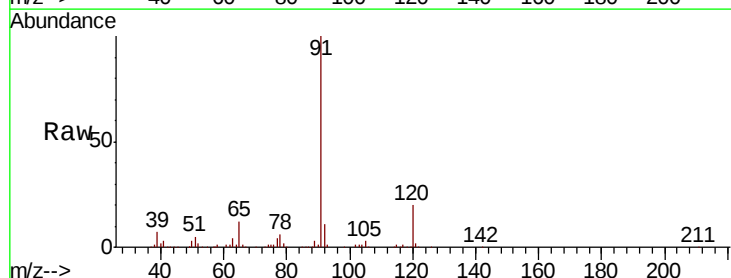
Manual Integrations
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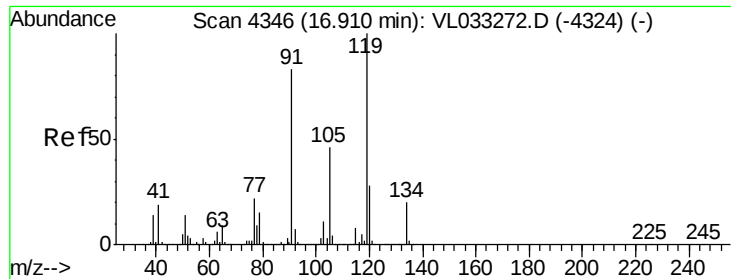
MMDadoda
 3/14/2019 5:05:37 AM



#64
 n-propylbenzene
 Concen: 1.993 ppbv
 RT: 15.72 min Scan# 3977
 Delta R.T. -0.00 min
 Lab File: VL033273.D
 Acq: 12 Mar 2019 2:58

Tgt Ion	Ratio	Resp Lower	Resp Upper
120	100		
91	512.1	385.8	578.8





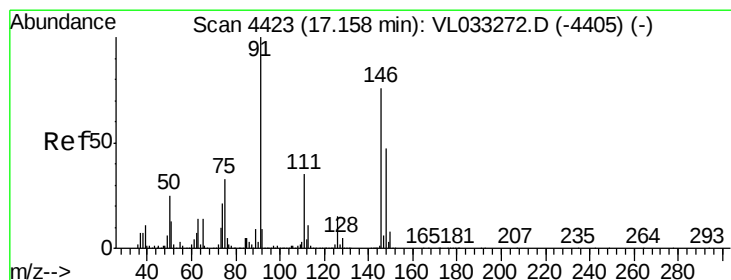
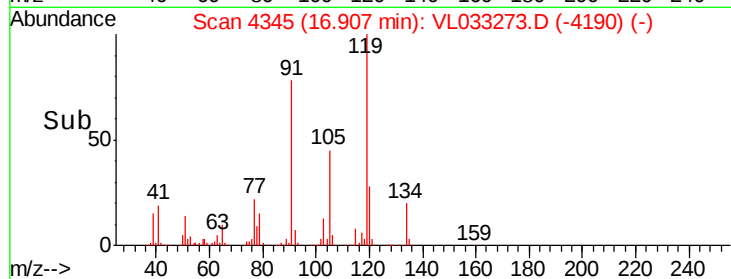
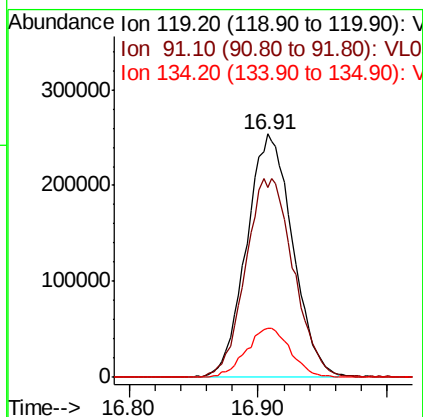
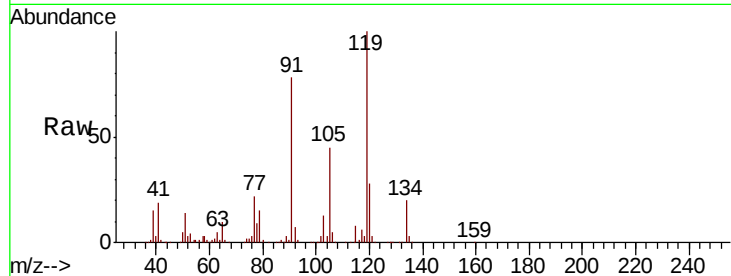
#65
 tert-Butylbenzene
 Concen: 2.099 ppbv
 RT: 16.91 min Scan# 4345
 Delta R.T. -0.00 min
 Lab File: VL033273.D
 Acq: 12 Mar 2019 2:58

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	631933		
91	84.8	67.3	100.9	
134	19.5	15.4	23.2	

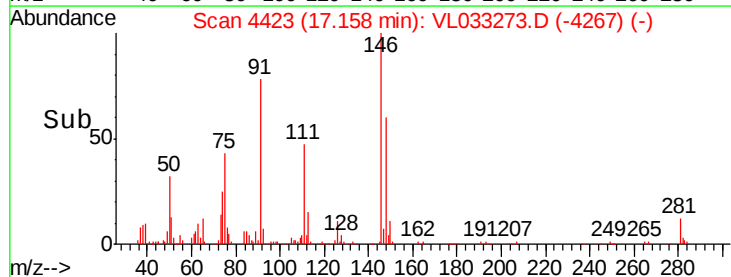
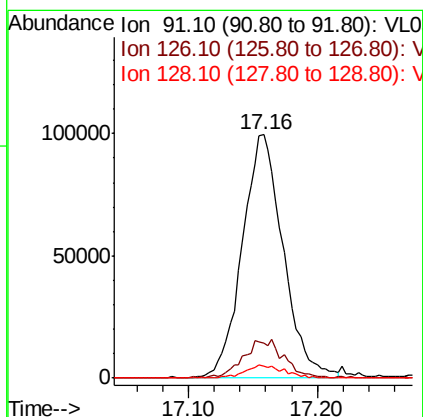
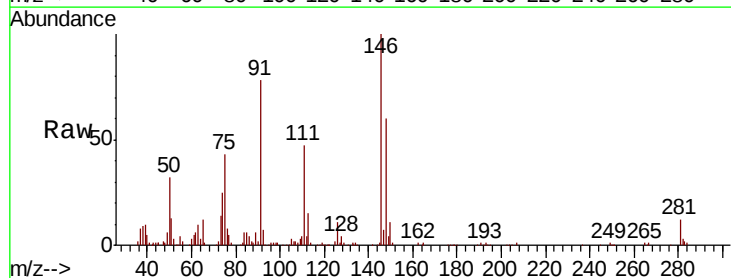
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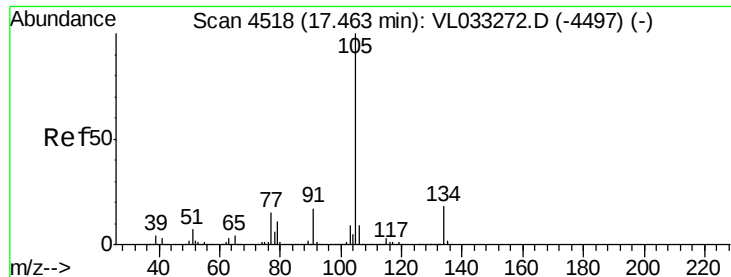
MMDadoda
 3/14/2019 5:05:37 AM



#66
 Benzyl Chloride
 Concen: 1.952 ppbv
 RT: 17.16 min Scan# 4423
 Delta R.T. 0.00 min
 Lab File: VL033273.D
 Acq: 12 Mar 2019 2:58

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	218988		
126	16.1	13.0	19.6	
128	5.0	4.3	6.5	





#67

sec-Butylbenzene

Concen: 2.089 ppbv

RT: 17.46 min Scan# 4517

Delta R.T. -0.00 min

Lab File: VL033273.D

Acq: 12 Mar 2019 2:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tgt Ion: 105 Resp: 892493

Ion Ratio Lower Upper

105 100

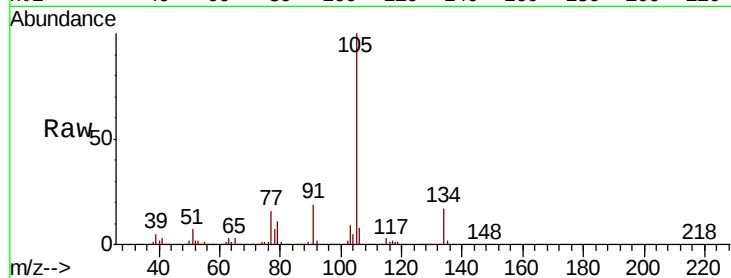
134 17.3 14.2 21.2

Manual Integrations

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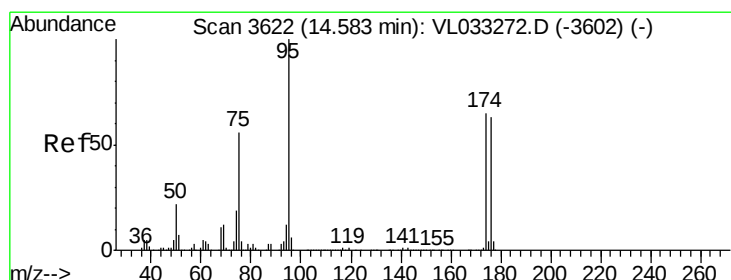
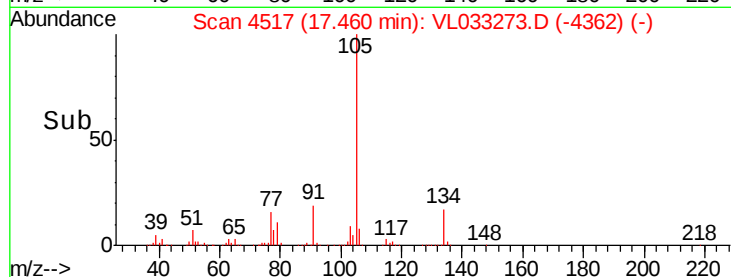
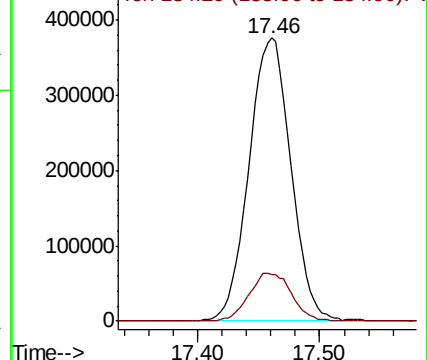
MMDadoda

3/14/2019 5:05:37 AM



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 9.465 ppbv

RT: 14.58 min Scan# 3620

Delta R.T. -0.01 min

Lab File: VL033273.D

Acq: 12 Mar 2019 2:58

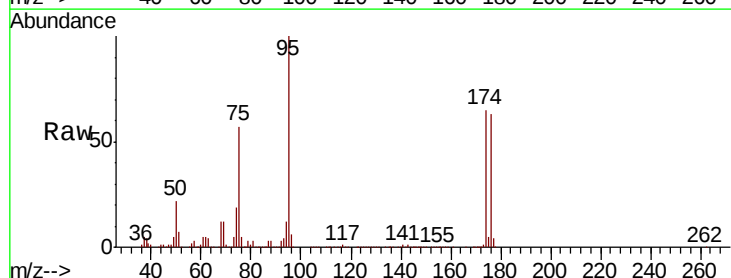
Tgt Ion: 95 Resp: 1715002

Ion Ratio Lower Upper

95 100

174 64.8 51.7 77.5

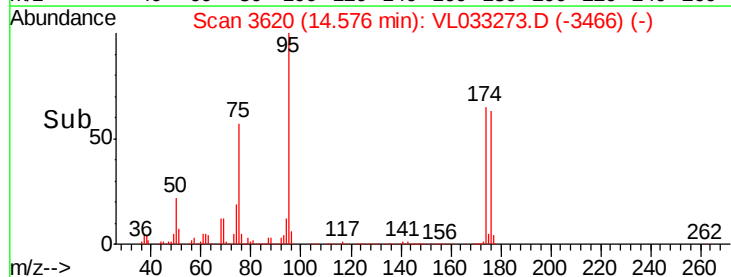
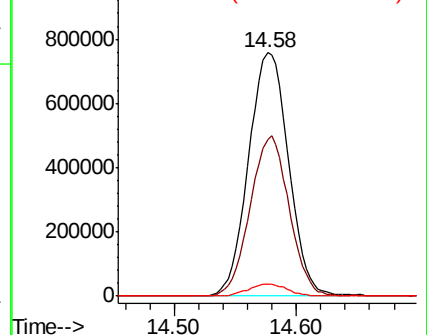
175 4.8 3.7 5.5

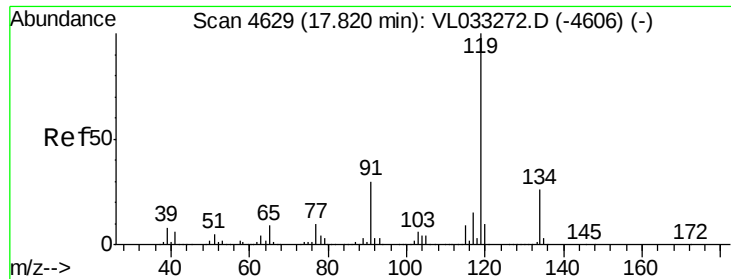


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





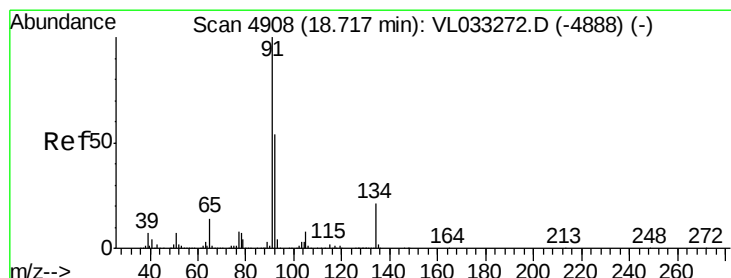
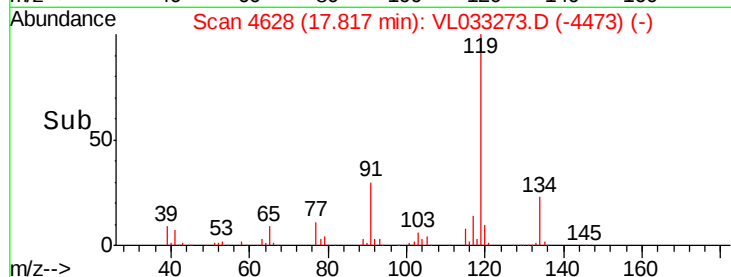
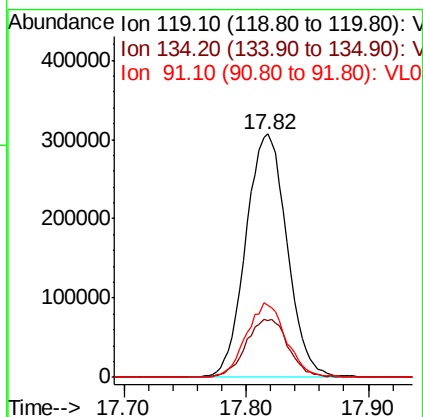
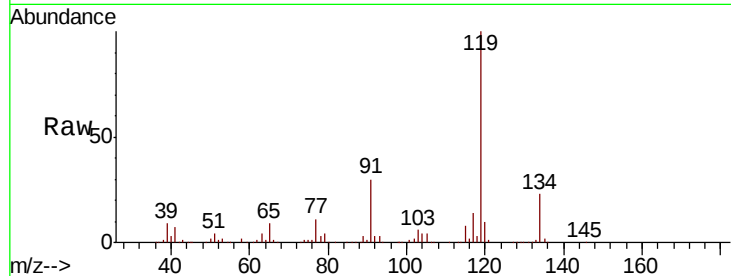
#69
p-Isopropyltoluene
Concen: 2.061 ppbv
RT: 17.82 min Scan# 4628
Delta R.T. -0.00 min
Lab File: VL033273.D
Acq: 12 Mar 2019 2:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tgt Ion	Ratio	Lower	Upper
119	100		
134	24.5	19.7	29.5
91	29.9	23.5	35.3

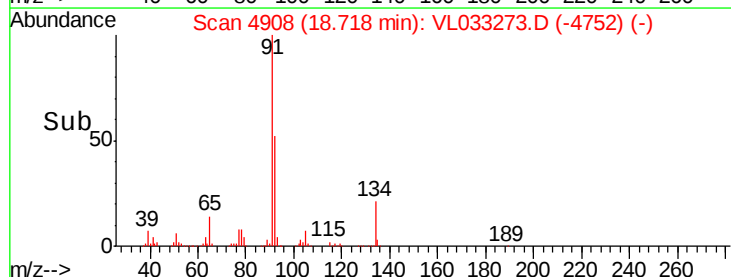
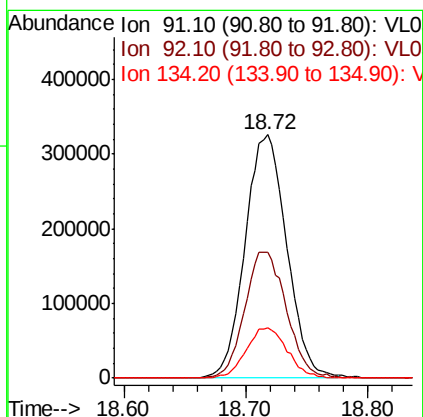
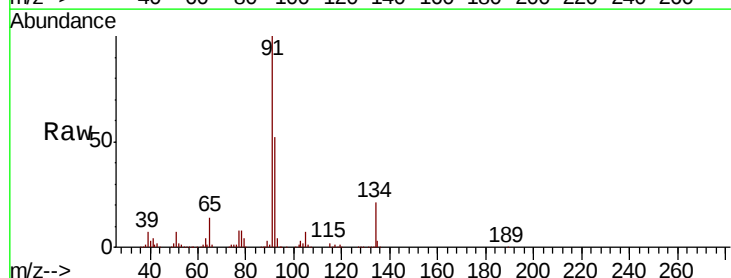
Manual Integrations
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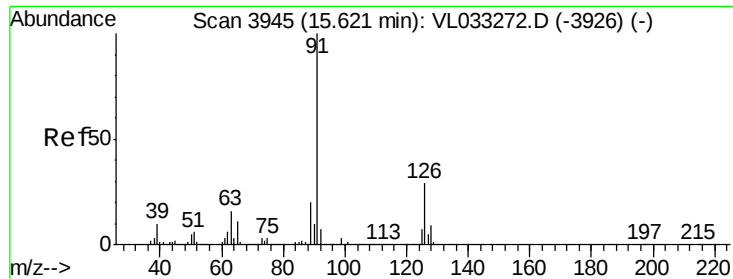
MMDadoda
3/14/2019 5:05:37 AM



#70
n-Butylbenzene
Concen: 2.040 ppbv
RT: 18.72 min Scan# 4908
Delta R.T. 0.00 min
Lab File: VL033273.D
Acq: 12 Mar 2019 2:58

Tgt Ion	Ratio	Lower	Upper
91	100		
92	51.8	42.4	63.6
134	20.6	17.1	25.7





#71

2-Chlorotoluene

Concen: 2.053 ppbv

RT: 15.62 min Scan# 3944

Delta R.T. -0.00 min

Lab File: VL033273.D

Acq: 12 Mar 2019 2:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tgt Ion: 91 Resp: 548761

Ion Ratio Lower Upper

91 100

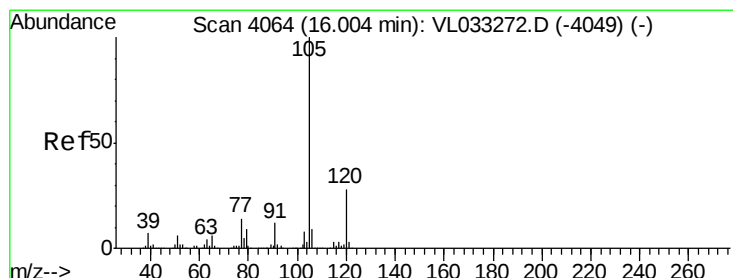
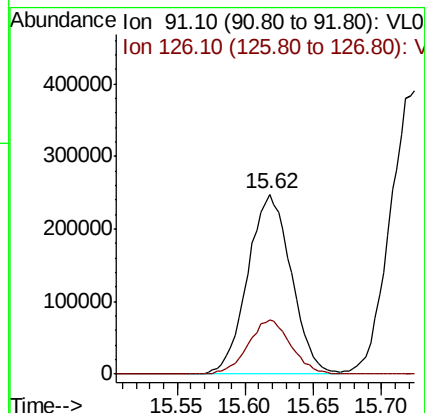
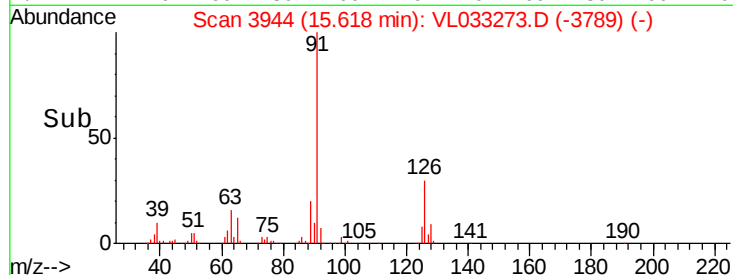
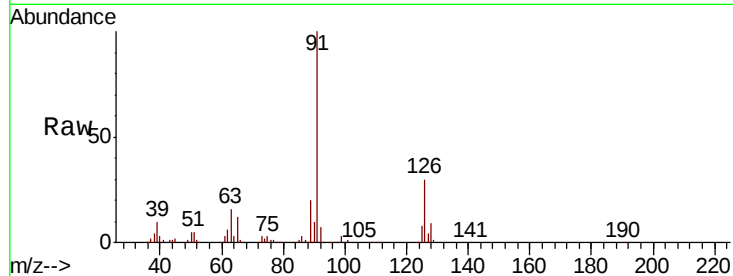
126 29.6 11.7 46.7

Manual Integrations

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#72

4-Ethyltoluene

Concen: 2.035 ppbv

RT: 16.00 min Scan# 4063

Delta R.T. -0.00 min

Lab File: VL033273.D

Acq: 12 Mar 2019 2:58

Tgt Ion: 105 Resp: 566988

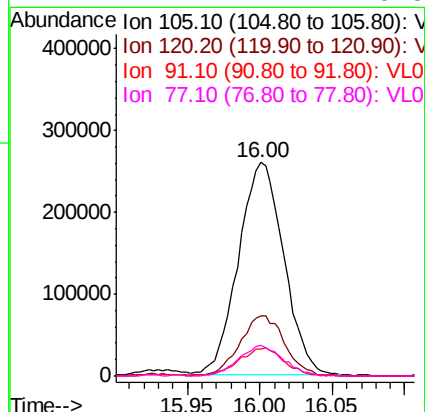
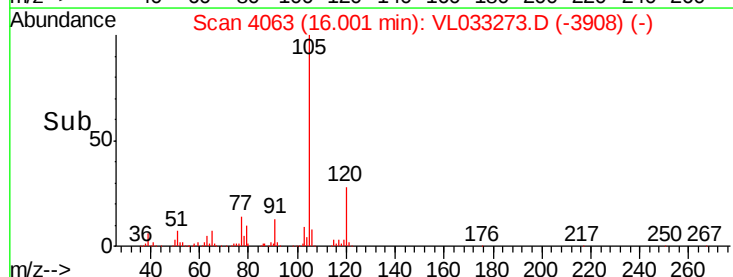
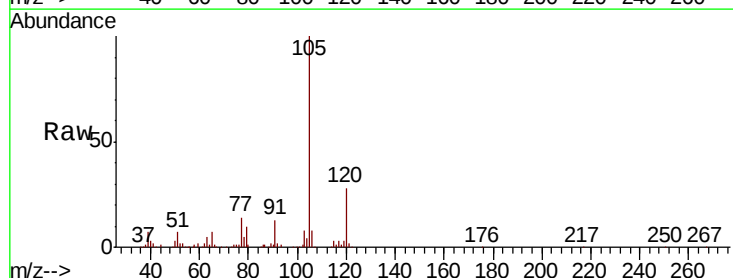
Ion Ratio Lower Upper

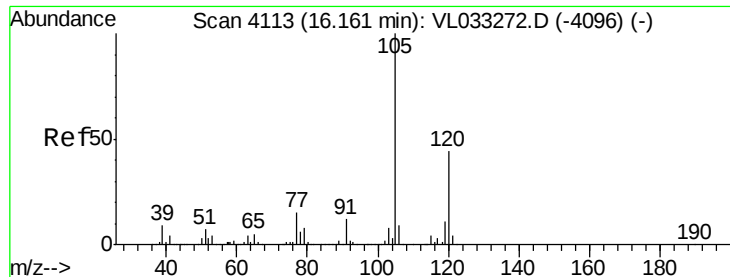
105 100

120 28.0 22.9 34.3

91 12.8 10.2 15.2

77 14.4 11.2 16.8





#73

1,3,5-Trimethylbenzene

Concen: 1.974 ppbv

RT: 16.16 min Scan# 4113

Delta R.T. 0.00 min

Lab File: VL033273.D

Acq: 12 Mar 2019 2:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tgt Ion:105 Resp: 523931

Ion Ratio Lower Upper

105 100

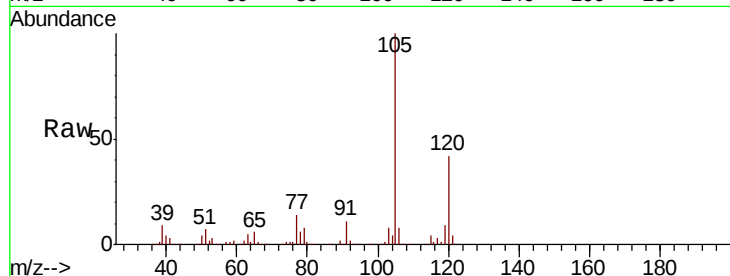
120 41.7 35.1 52.7

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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

250000

200000

150000

100000

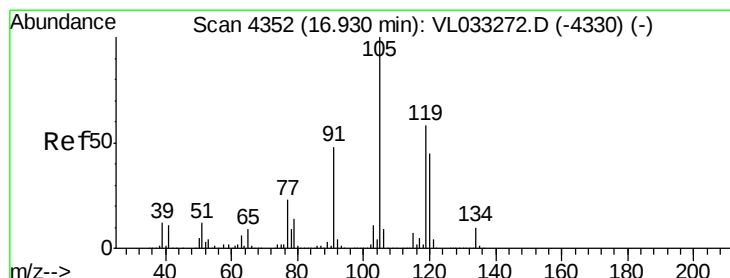
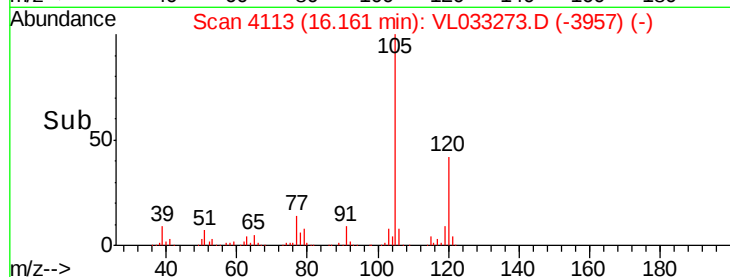
50000

0

16.10

16.20

Time-->



#74

1,2,4-Trimethylbenzene

Concen: 1.952 ppbv

RT: 16.93 min Scan# 4351

Delta R.T. -0.00 min

Lab File: VL033273.D

Acq: 12 Mar 2019 2:58

Tgt Ion:105 Resp: 539828

Ion Ratio Lower Upper

105 100

120 43.8 36.1 54.1

91 47.3 38.6 58.0

77 23.6 18.2 27.4

Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VLO

Ion 77.10 (76.80 to 77.80): VLO

300000

200000

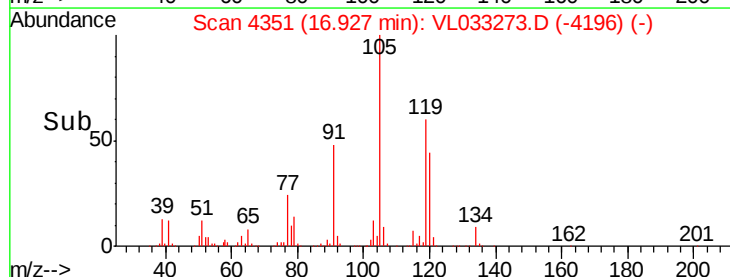
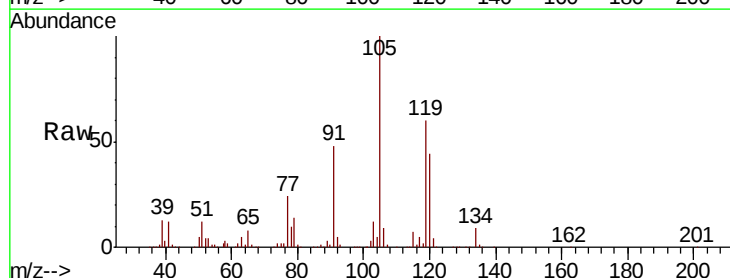
100000

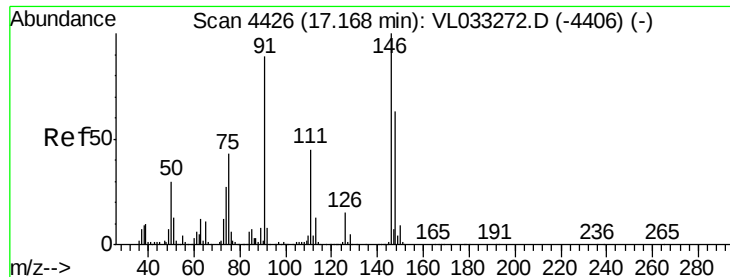
0

16.90

17.00

Time-->





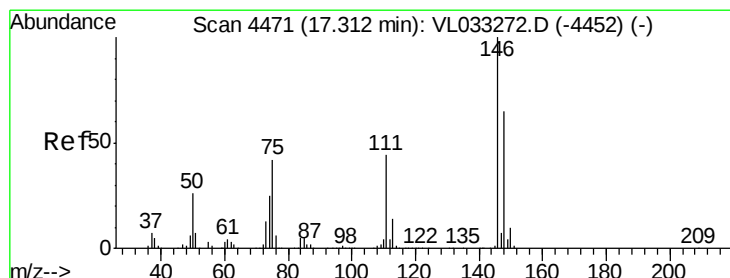
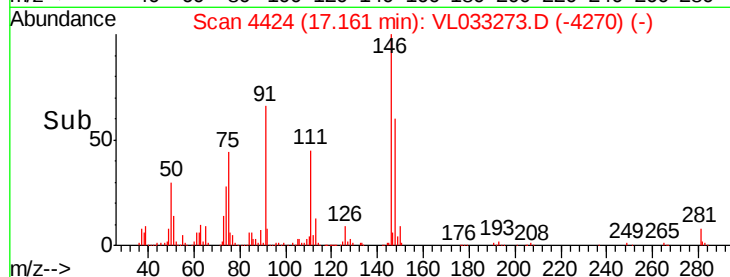
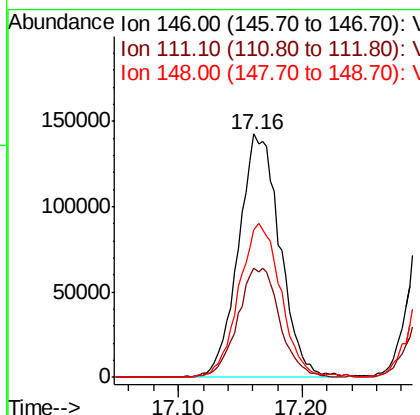
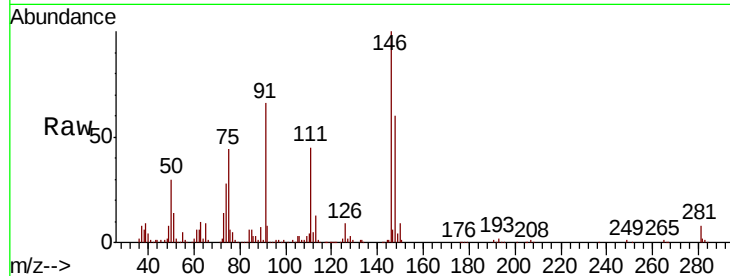
#75
 1,3-Dichlorobenzene
 Concen: 2.026 ppbv m
 RT: 17.16 min Scan# 4424
 Delta R.T. -0.01 min
 Lab File: VL033273.D
 Acq: 12 Mar 2019 2:58

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tgt Ion	Ratio	Lower	Upper
146	100		
111	0.0	22.8	68.4#
148	0.0	31.8	95.3#

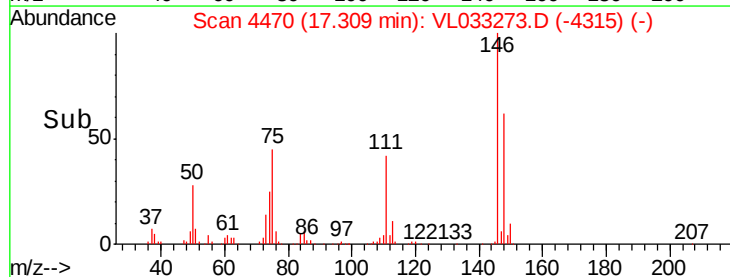
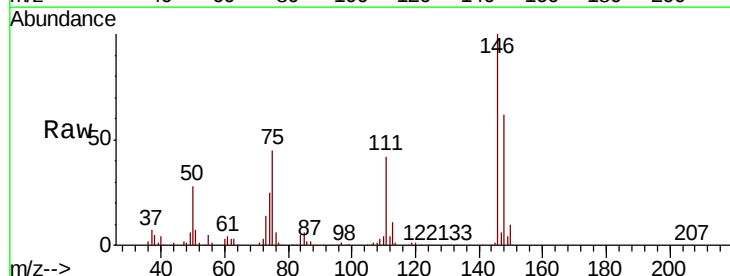
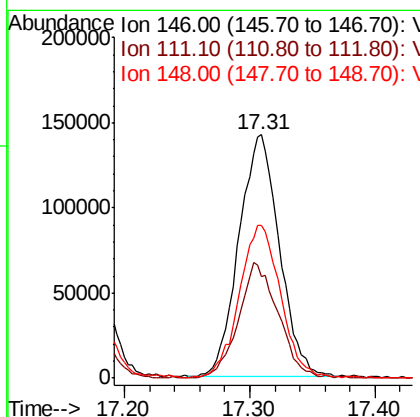
Manual Integrations
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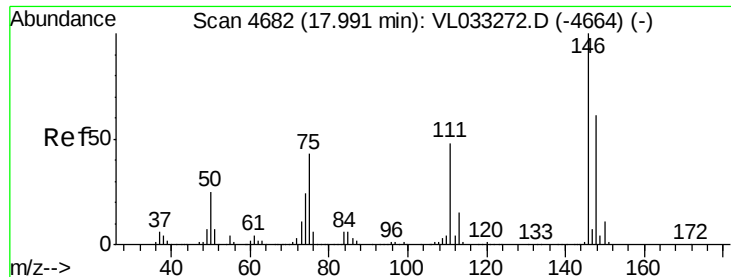
MMDadoda
 3/14/2019 5:05:37 AM



#76
 1,4-Dichlorobenzene
 Concen: 1.987 ppbv
 RT: 17.31 min Scan# 4470
 Delta R.T. -0.00 min
 Lab File: VL033273.D
 Acq: 12 Mar 2019 2:58

Tgt Ion	Ratio	Lower	Upper
146	100		
111	47.4	22.1	66.1
148	65.1	31.8	95.3





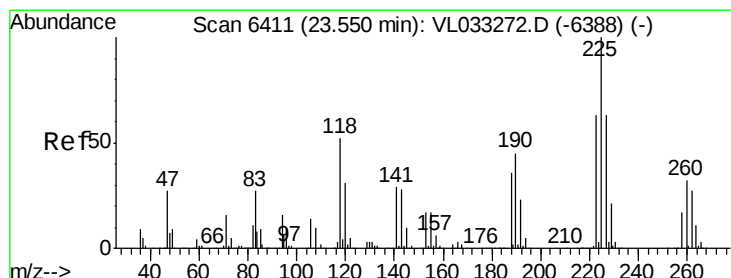
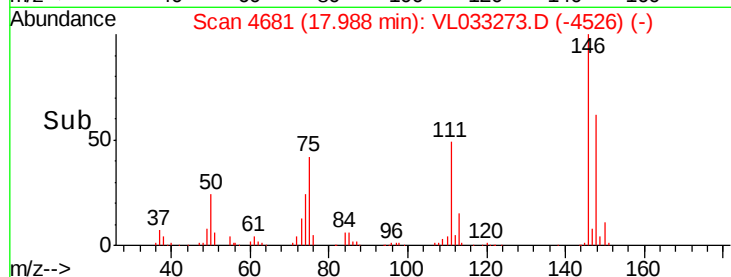
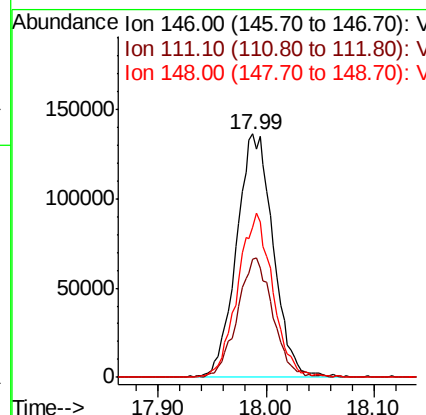
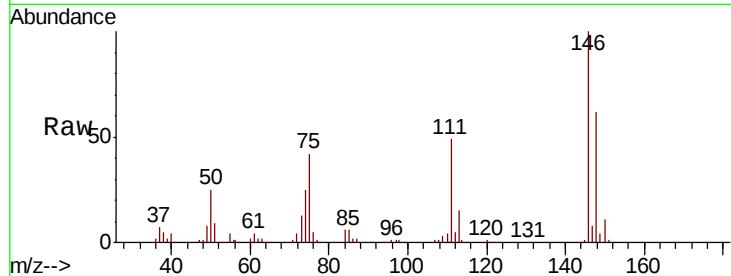
#77
 1,2-Dichlorobenzene
 Concen: 2.047 ppbv m
 RT: 17.99 min Scan# 4681
 Delta R.T. -0.00 min
 Lab File: VL033273.D
 Acq: 12 Mar 2019 2:58

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	322486		
111	47.3	23.5	70.5	
148	64.5	31.7	95.1	

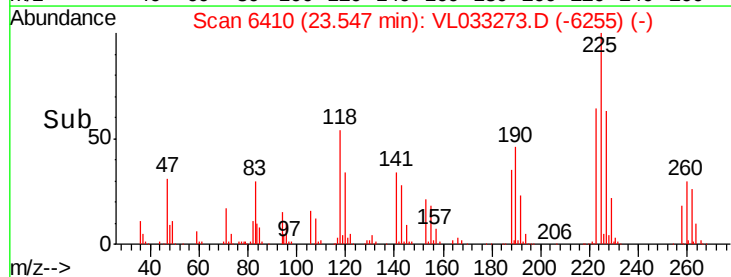
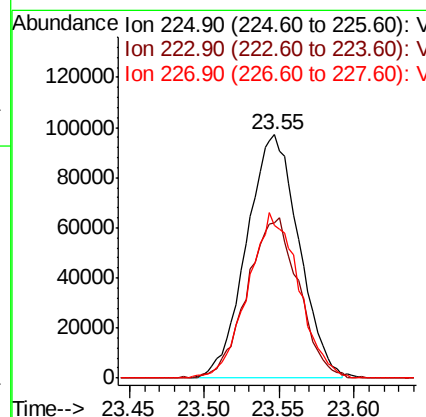
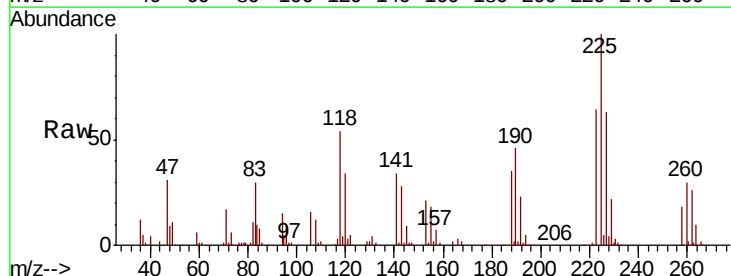
Manual Integrations
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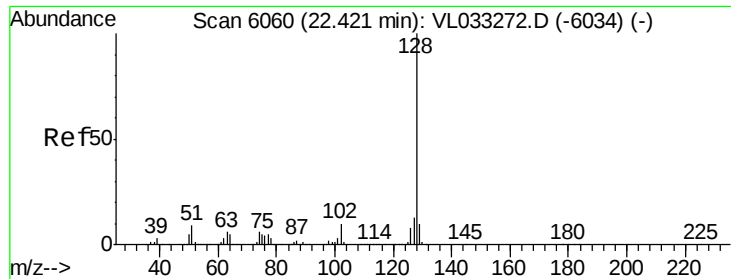
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#78
 Hexachloro-1,3-Butadiene
 Concen: 1.980 ppbv
 RT: 23.55 min Scan# 6410
 Delta R.T. -0.00 min
 Lab File: VL033273.D
 Acq: 12 Mar 2019 2:58

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	236487		
223	64.9	50.3	75.5	
227	65.6	51.1	76.7	





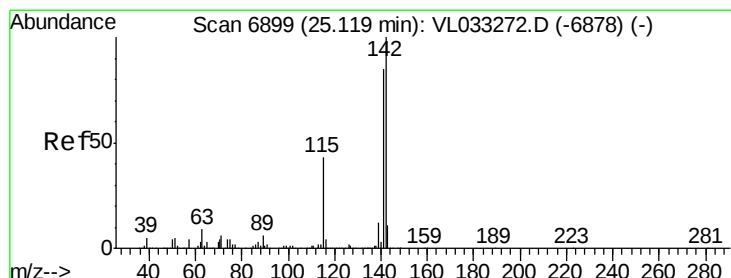
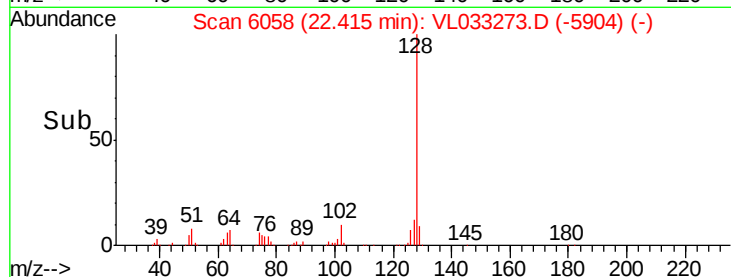
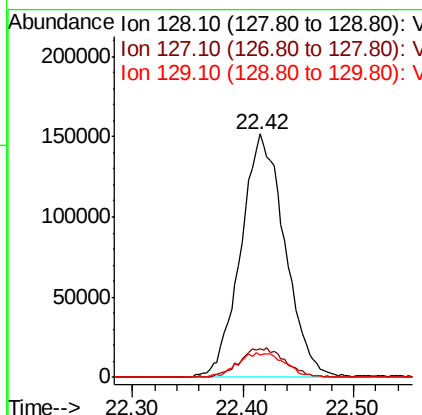
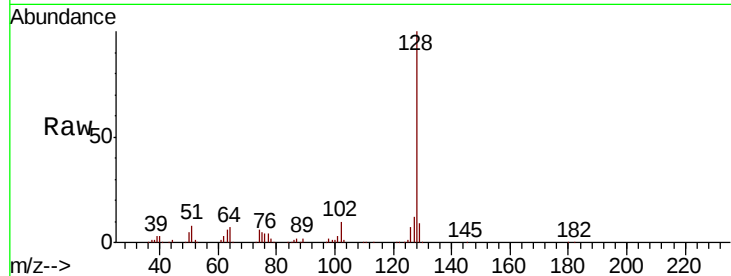
#79
Naphthalene
Concen: 1.389 ppbv
RT: 22.42 min Scan# 6058
Delta R.T. -0.01 min
Lab File: VL033273.D
Acq: 12 Mar 2019 2:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tgt Ion	Ratio	Resp	Lower	Upper
128	100	419679		
127	11.4	10.5	15.7	
129	9.3	8.4	12.6	

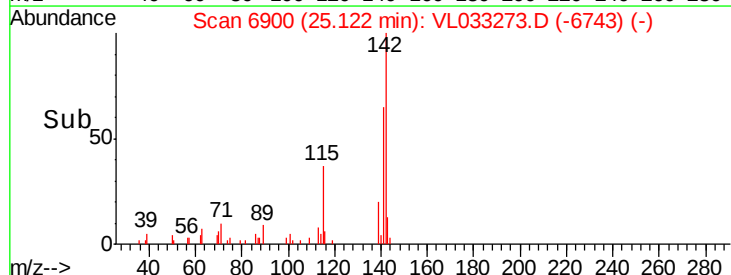
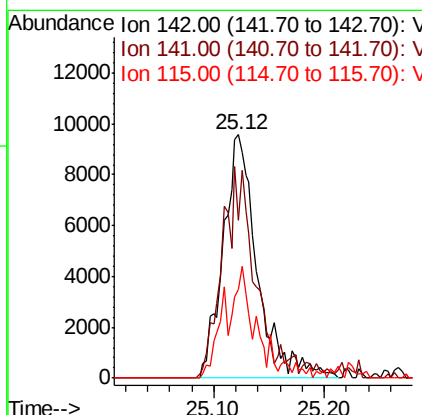
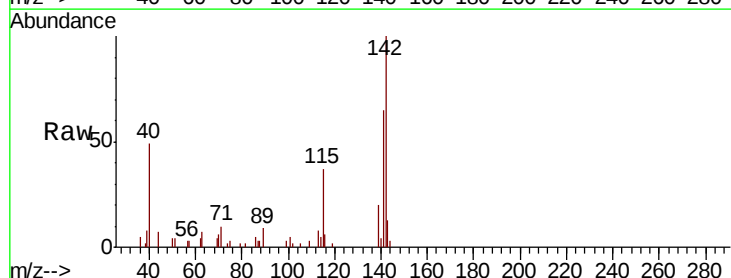
Manual Integrations
APPROVED

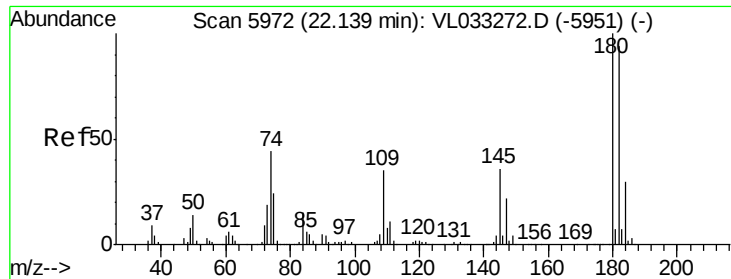
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3/14/2019 5:05:37 AM



#80
Naphthalene, 2-methyl-
Concen: 0.282 ppbv
RT: 25.12 min Scan# 6900
Delta R.T. 0.00 min
Lab File: VL033273.D
Acq: 12 Mar 2019 2:58

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	20587		
141	80.9	68.0	102.0	
115	42.8	33.8	50.6	





#81
 1,2,4-Trichlorobenzene
 Concen: 1.573 ppbv
 RT: 22.14 min Scan# 5973
 Delta R.T. 0.00 min
 Lab File: VL033273.D
 Acq: 12 Mar 2019 2:58

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tgt Ion	Ratio	Resp Lower	Resp Upper
180	100		
182	93.5	76.6	114.8
184	30.0	24.2	36.4

Manual Integrations
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MMDadoda
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