

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL050219\
 Data File : VL033652.D
 Acq On : 3 May 2019 6:58
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 5/4/2019 7:20:01 AM

Quant Time: May 03 08:41:33 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050119AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu May 03 2019
 QLast Update : Thu May 02 06:29:02 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	969125	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2308201	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2634139m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	2063775	10.29	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.90%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.08	85	2250088	15.406	ppbv 98
3) Chlorodifluoromethane	3.01	51	1236534	10.672	ppbv 100
4) Chloromethane	3.17	50	683411	10.829	ppbv 98
5) Vinyl Chloride	3.29	62	687517	10.383	ppbv 99
6) Bromomethane	3.51	94	431936	11.084	ppbv 98
7) Chloroethane	3.60	64	246265	11.156	ppbv 96
8) Dichlorotetrafluoroethane	3.22	85	1780135	11.203	ppbv 98
9) Propene	3.03	41	517842	15.608	ppbv 86
10) Heptane	8.25	43	1328679	10.830	ppbv 99
11) Trichlorofluoromethane	4.00	101	1960780	11.295	ppbv 100
12) 1,1,2-Trichlorotrifluoroet	4.55	101	1286790	10.808	ppbv 98
13) Ethanol	3.65	45	106845	7.103	ppbv 99
14) Bromoethene	3.79	108	527709	10.798	ppbv 97
15) Acetone	3.90	43	1217428	10.318	ppbv 99
16) 1,3-Butadiene	3.36	39	625090	11.772	ppbv 99
17) tert-Butyl alcohol	4.35	59	964092	9.464	ppbv 100
18) 1,1-Dichloroethene	4.35	96	569284	11.003	ppbv 99
19) Isopropyl Alcohol	4.02	45	783786	9.679	ppbv 100
20) Methylene Chloride	4.41	84	480868	10.458	ppbv 95
21) Allyl Chloride	4.47	41	830176	11.185	ppbv 98
22) trans-1,2-Dichloroethene	4.96	96	584598	11.537	ppbv 98
23) Vinyl Acetate	5.15	43	1833904	10.452	ppbv 99
24) 1,1-Dichloroethane	5.09	63	1284768	9.836	ppbv 100
25) Ethyl Acetate	5.77	43	2200528	9.827	ppbv 100
26) Hexane	5.78	57	964990	10.234	ppbv 99
27) Carbon Disulfide	4.62	76	1422015	12.453	ppbv 99
28) Methyl tert-Butyl Ether	5.11	73	1568128	9.862	ppbv 100
29) Chloroform	5.85	83	1670297	9.666	ppbv 96
30) Cyclohexane	7.24	84	839175	10.513	ppbv 99
31) cis-1,2-Dichloroethene	5.64	61	1001047	10.519	ppbv 99
32) 1,1,1-Trichloroethane	6.62	97	1751358	9.683	ppbv 99
34) 2-Butanone	5.33	43	1443219	10.185	ppbv 99
35) Carbon Tetrachloride	7.13	117	1896959	10.374	ppbv 99
36) Benzene	7.00	78	2098456	10.670	ppbv 98
37) 1,2-Dichloroethane	6.41	62	1322238	10.118	ppbv 99
38) Trichloroethene	7.96	130	851877	10.861	ppbv 99
39) 1,2-Dichloropropane	7.74	63	763435	10.294	ppbv 98
40) 1,4-Dioxane	7.95	88	304932	10.119	ppbv 81
41) Tetrahydrofuran	6.15	42	798912	10.557	ppbv 100
42) Bromodichloromethane	7.92	83	1863509	10.537	ppbv 97
43) Methyl Methacrylate	8.14	69	836136	11.227	ppbv 98

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 ClientSampleId :
 VSTDCCC010EC

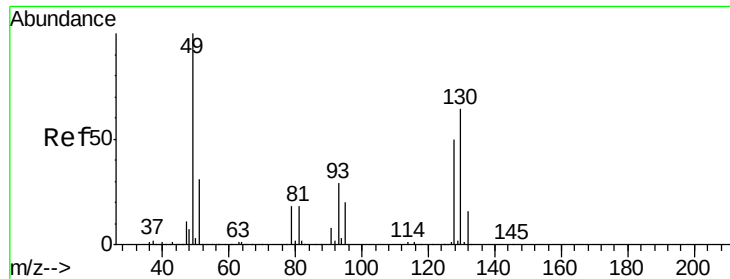
Manual Integrations
 APPROVED

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 5/4/2019 7:20:01 AM

Quant Time: May 03 08:41:33 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050119AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu May 03 08:41:33 2019
 QLast Update : Thu May 02 06:29:02 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	3531335	10.303	ppbv	99
45) t-1,3-Dichloropropene	9.42	75	1165341	11.781	ppbv	99
46) cis-1,3-Dichloropropene	8.83	75	1300266	11.654	ppbv	97
47) 1,1,2-Trichloroethane	9.61	97	878589	9.083	ppbv	98
48) Dibromochloromethane	10.45	129	1613026	9.860	ppbv	99
49) Bromoform	13.20	173	1430345	11.413	ppbv	100
50) 4-Methyl-2-Pentanone	8.87	43	2302231	10.369	ppbv	100
51) 2-Hexanone	10.27	43	1867880	9.582	ppbv	100
52) Tetrachloroethene	11.37	164	804474	10.639	ppbv	96
53) Toluene	9.95	91	2450270	9.872	ppbv	100
54) 1,2-Dibromoethane	10.76	107	1409210	10.592	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.28	131	1094206	9.644	ppbv	95
57) Chlorobenzene	12.30	112	1922908	9.512	ppbv	98
58) Ethyl Benzene	12.86	91	3458964	11.404	ppbv	99
59) m/p-Xylene	13.15	91	5821922m	22.311	ppbv	
60) o-Xylene	13.85	91	2930317	11.117	ppbv	99
61) Styrene	13.68	104	2189409	12.152	ppbv	100
62) Isopropylbenzene	14.82	105	3903893	11.082	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.84	83	1956509	9.508	ppbv	99
64) n-propylbenzene	15.72	120	1006392	11.014	ppbv	100
65) tert-Butylbenzene	16.91	119	3531558	10.720	ppbv	100
66) Benzyl Chloride	17.15	91	1858252	12.439	ppbv	100
67) sec-Butylbenzene	17.46	105	4952396	10.704	ppbv	100
69) p-Isopropyltoluene	17.81	119	4099494	10.651	ppbv	100
70) n-Butylbenzene	18.71	91	4269144	10.191	ppbv	100
71) 2-Chlorotoluene	15.61	91	2949023	11.193	ppbv	100
72) 4-Ethyltoluene	16.00	105	3441332	11.462	ppbv	99
73) 1,3,5-Trimethylbenzene	16.15	105	3266683	11.064	ppbv	100
74) 1,2,4-Trimethylbenzene	16.93	105	3408597	10.351	ppbv	98
75) 1,3-Dichlorobenzene	17.16	146	1974553	9.632	ppbv	99
76) 1,4-Dichlorobenzene	17.31	146	1964739	10.051	ppbv	99
77) 1,2-Dichlorobenzene	17.98	146	1877787	9.846	ppbv	99
78) Hexachloro-1,3-Butadiene	23.54	225	1729834	11.863	ppbv	100
79) Naphthalene	22.41	128	3840685	12.646	ppbv	99
80) Naphthalene, 2-methyl-	25.11	142	1695013	12.874	ppbv	100
81) 1,2,4-Trichlorobenzene	22.13	180	1960864	11.134	ppbv	99

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



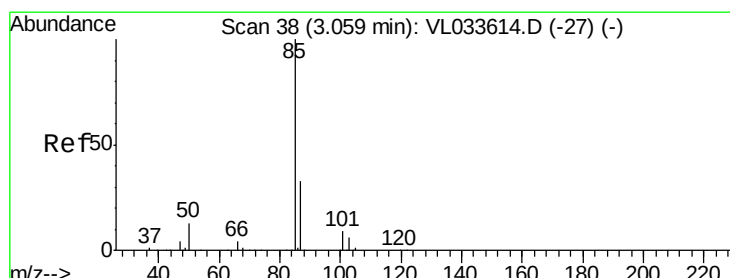
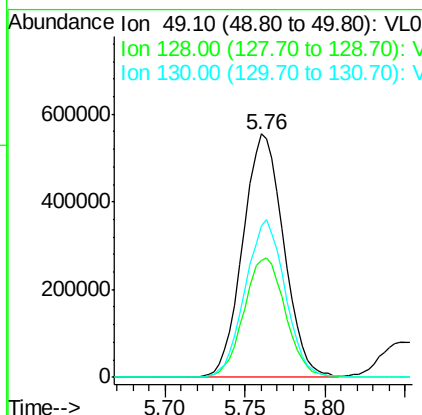
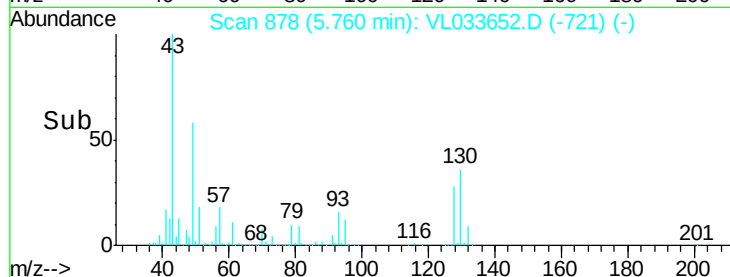
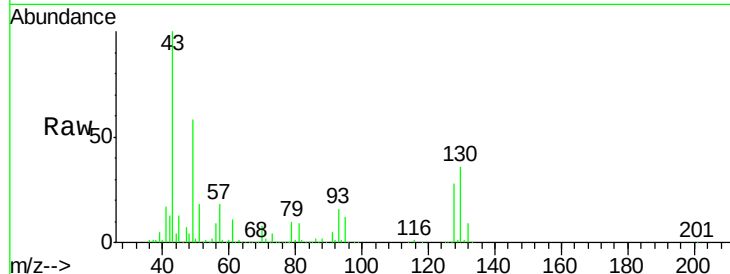
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 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.76 min Scan# 878
 Delta R.T. 0.01 min
 Lab File: VL033652.D
 Acq: 3 May 2019 6:58

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:	49	Resp:	969125
Ion Ratio	Lower	Upper	
49	100		
128	49.7	25.0	75.0
130	64.0	31.9	95.9

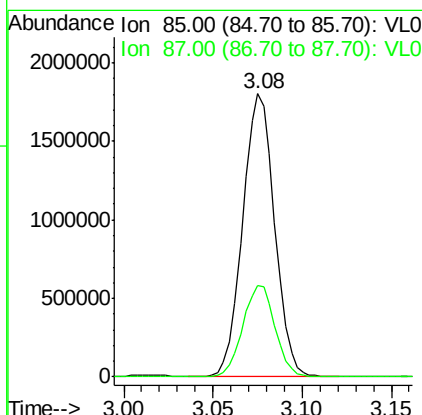
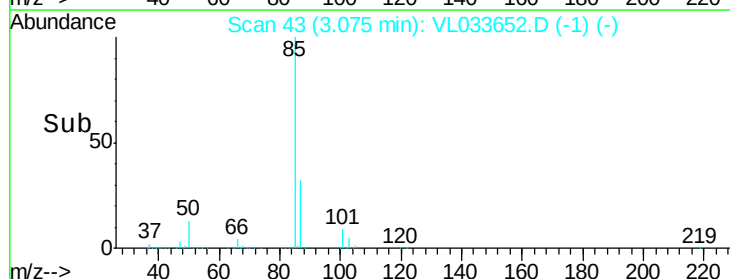
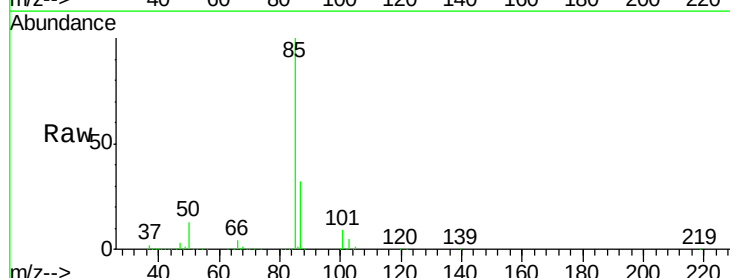
Manual Integrations
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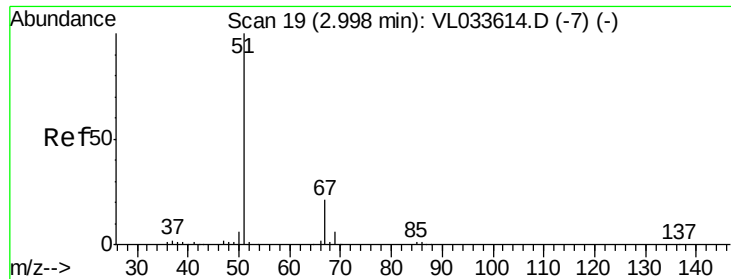
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#2
 Dichlorodifluoromethane
 Concen: 15.406 ppbv
 RT: 3.08 min Scan# 43
 Delta R.T. 0.02 min
 Lab File: VL033652.D
 Acq: 3 May 2019 6:58

Tgt Ion:	85	Resp:	2250088
Ion Ratio	Lower	Upper	
85	100		
87	32.3	26.8	40.2





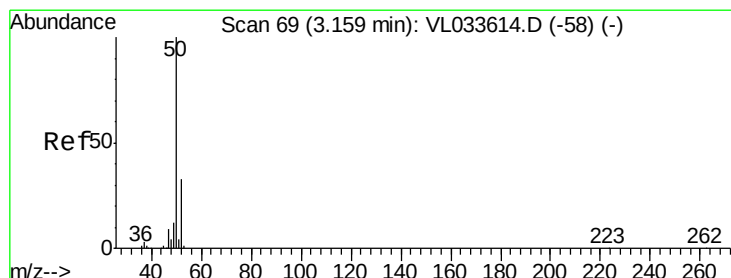
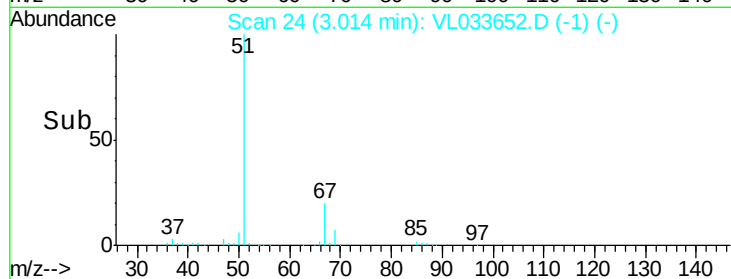
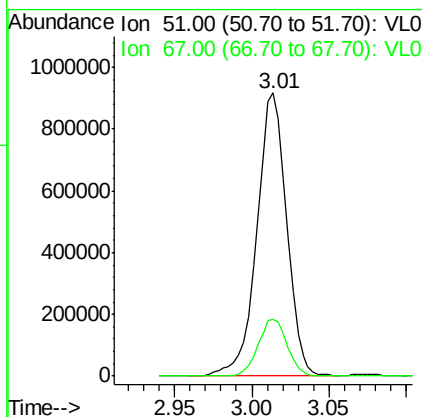
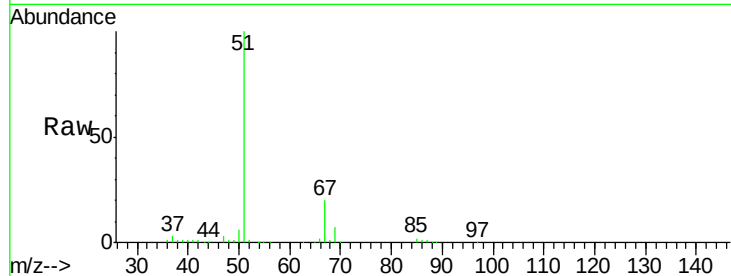
#3
Chlorodifluoromethane
Concen: 10.672 ppbv
RT: 3.01 min Scan# 24
Delta R.T. 0.02 min
Lab File: VL033652.D
Acq: 3 May 2019 6:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 51 Resp: 1236534
Ion Ratio Lower Upper
51 100
67 19.7 15.6 23.4

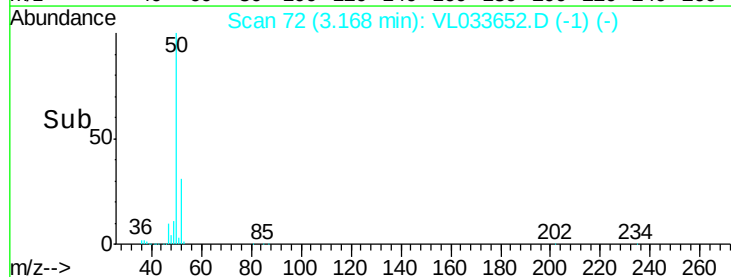
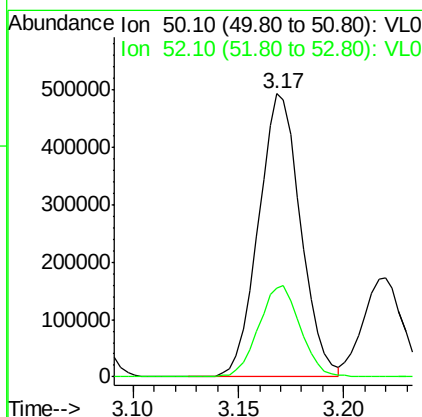
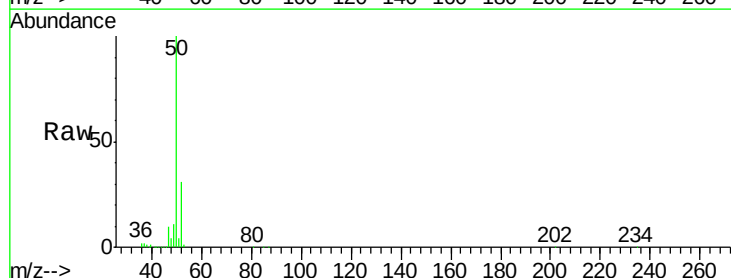
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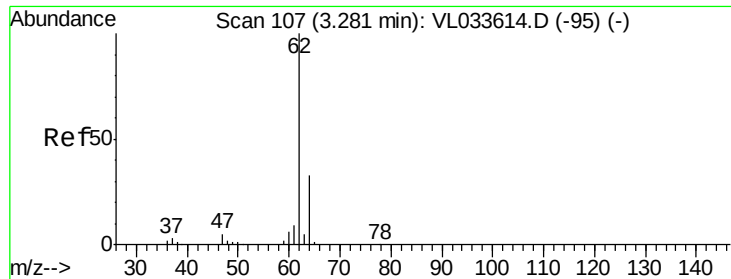
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5/4/2019 7:20:01 AM



#4
Chloromethane
Concen: 10.829 ppbv
RT: 3.17 min Scan# 72
Delta R.T. 0.01 min
Lab File: VL033652.D
Acq: 3 May 2019 6:58

Tgt Ion: 50 Resp: 683411
Ion Ratio Lower Upper
50 100
52 31.4 26.0 39.0





#5

Vinyl Chloride

Concen: 10.383 ppbv

RT: 3.29 min Scan# 110

Delta R.T. 0.01 min

Lab File: VL033652.D

Acq: 3 May 2019 6:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 62 Resp: 687517

Ion Ratio Lower Upper

62 100

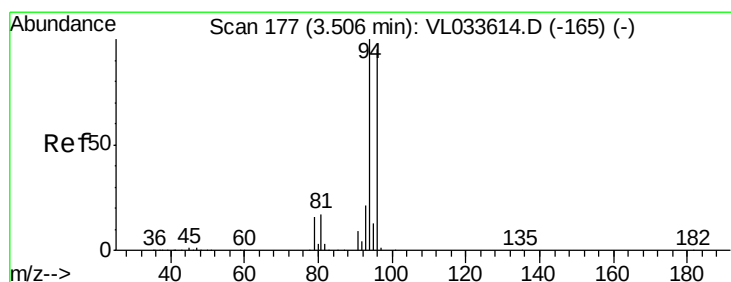
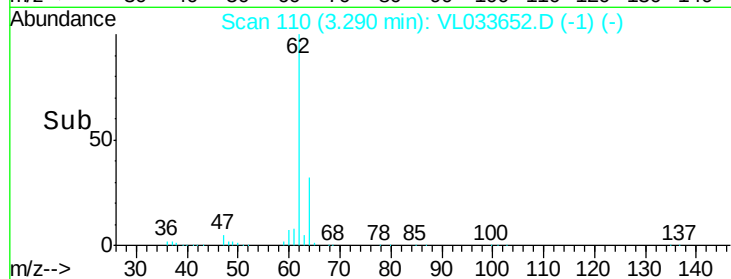
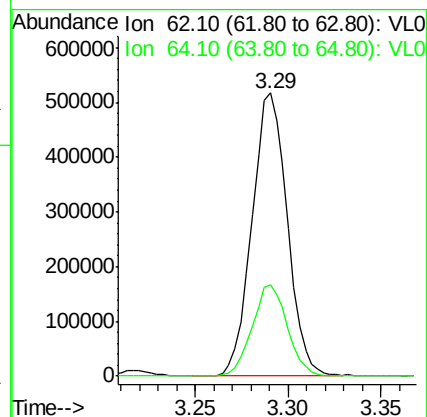
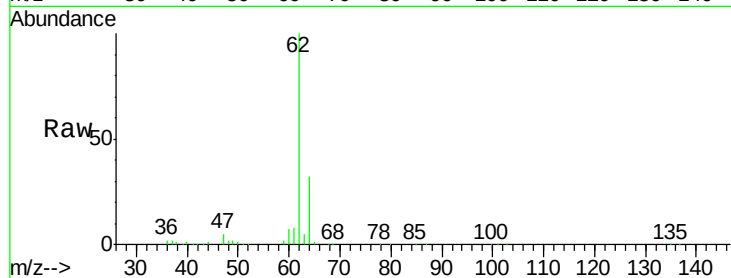
64 32.2 26.2 39.4

Manual Integrations

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#6

Bromomethane

Concen: 11.084 ppbv

RT: 3.51 min Scan# 179

Delta R.T. 0.01 min

Lab File: VL033652.D

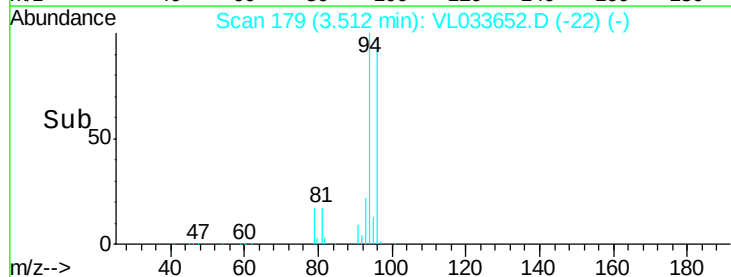
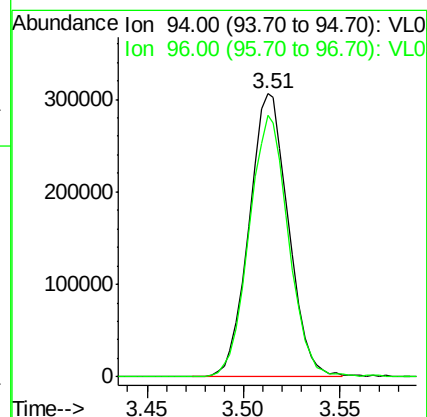
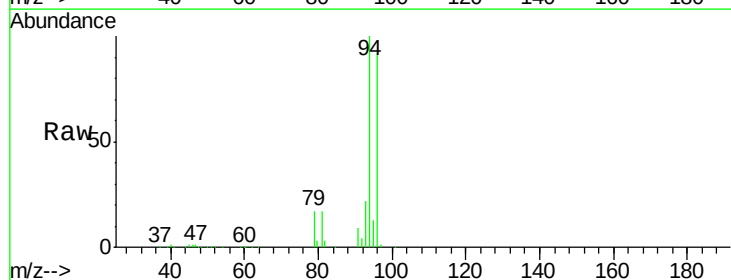
Acq: 3 May 2019 6:58

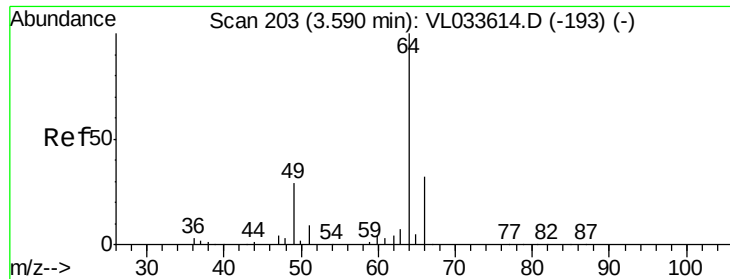
Tgt Ion: 94 Resp: 431936

Ion Ratio Lower Upper

94 100

96 92.3 75.7 113.5





#7

Chloroethane

Concen: 11.156 ppbv

RT: 3.60 min Scan# 206

Delta R.T. 0.01 min

Lab File: VL033652.D

Acq: 3 May 2019 6:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 64 Resp: 246265

Ion Ratio Lower Upper

64 100

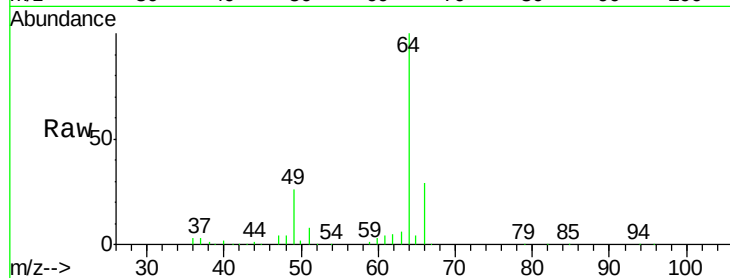
66 29.3 25.4 38.2

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

200000

150000

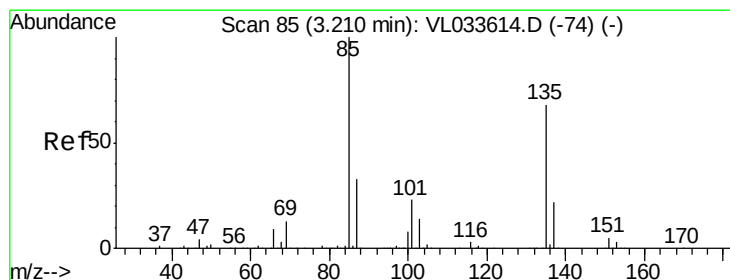
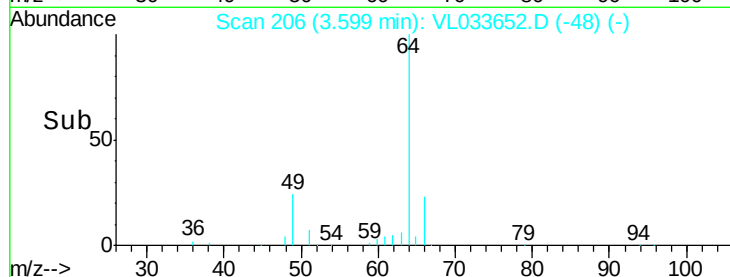
100000

50000

0

3.55 3.60 3.65

Time-->



#8

Dichlorotetrafluoroethane

Concen: 11.203 ppbv

RT: 3.22 min Scan# 88

Delta R.T. 0.01 min

Lab File: VL033652.D

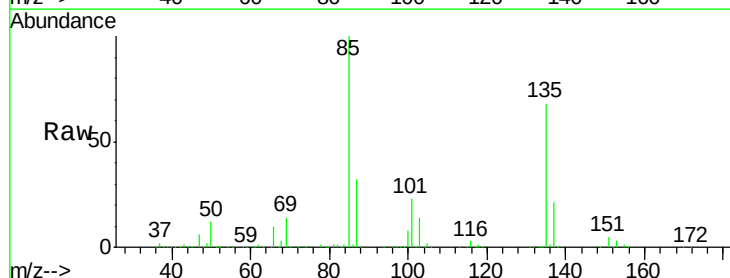
Acq: 3 May 2019 6:58

Tgt Ion: 85 Resp: 1780135

Ion Ratio Lower Upper

85 100

135 67.0 55.0 82.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

1500000

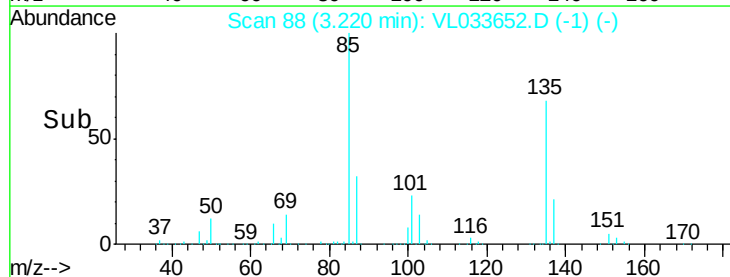
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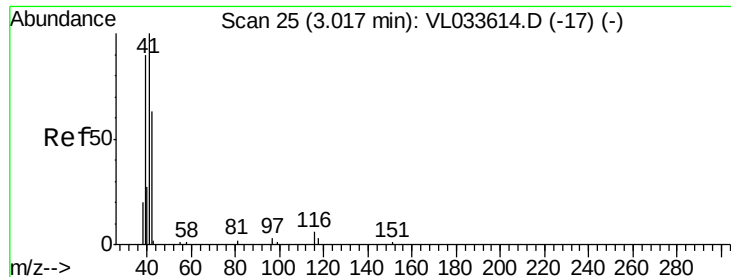
500000

0

3.15 3.20 3.25

Time-->





#9

Propene

Concen: 15.608 ppbv

RT: 3.03 min Scan# 30

Delta R.T. 0.02 min

Lab File: VL033652.D

Acq: 3 May 2019 6:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 41 Resp: 517842

Ion Ratio Lower Upper

41 100

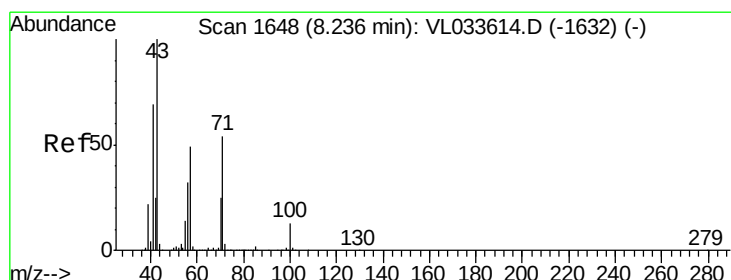
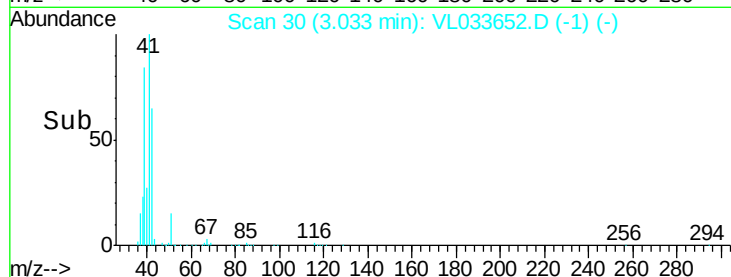
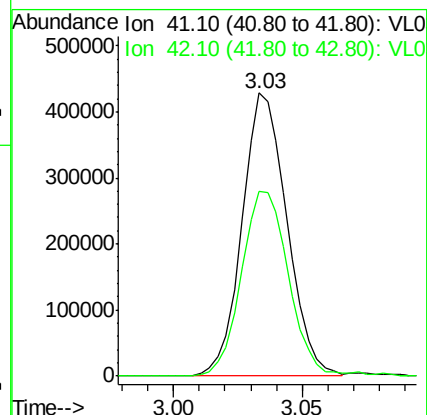
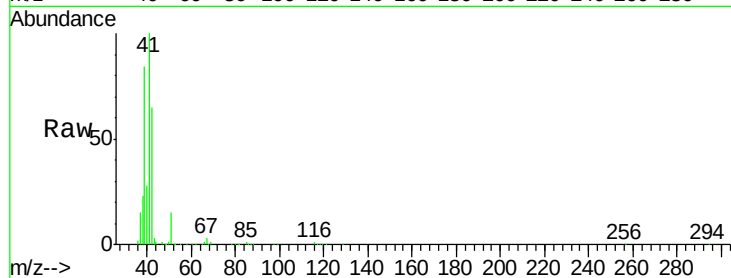
42 70.2 66.0 99.0

Manual Integrations

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#10

Heptane

Concen: 10.830 ppbv

RT: 8.25 min Scan# 1651

Delta R.T. 0.01 min

Lab File: VL033652.D

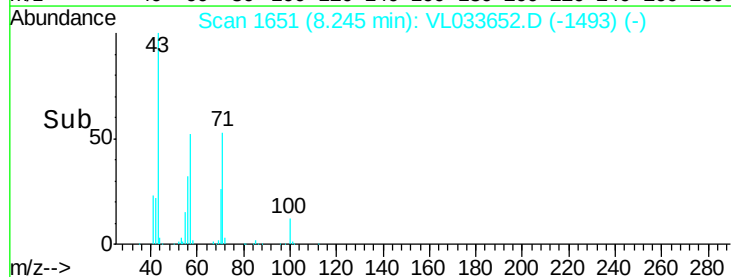
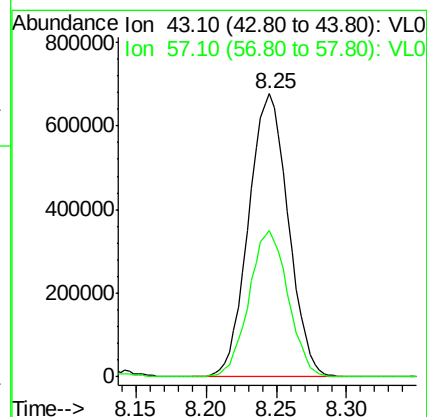
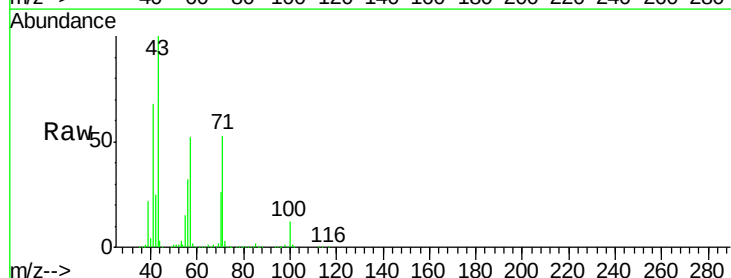
Acq: 3 May 2019 6:58

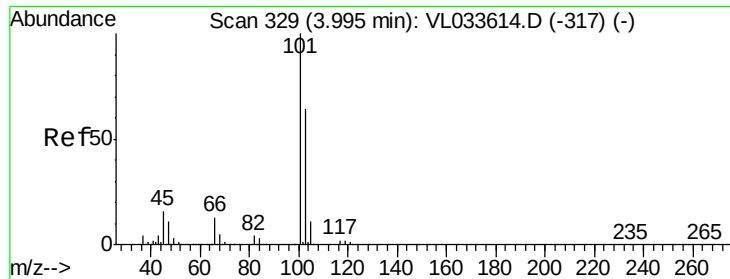
Tgt Ion: 43 Resp: 1328679

Ion Ratio Lower Upper

43 100

57 51.1 40.3 60.5





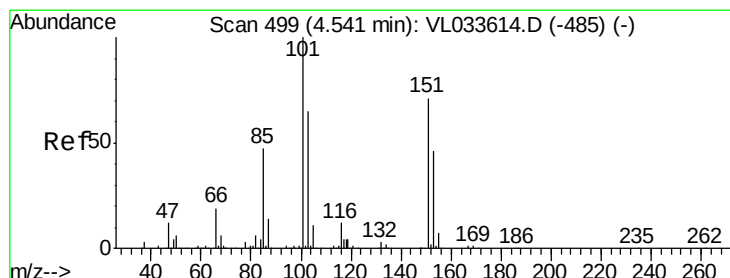
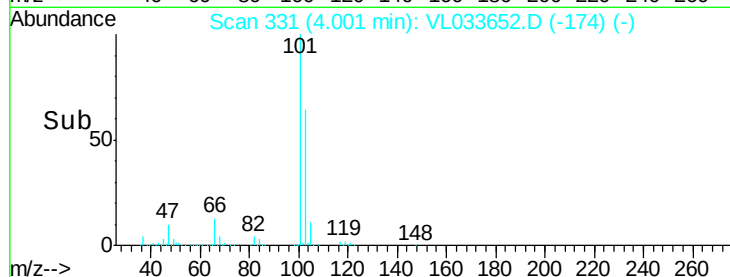
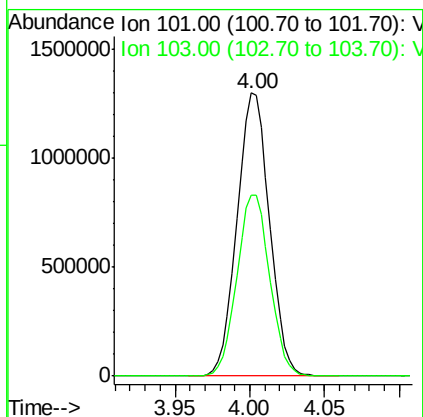
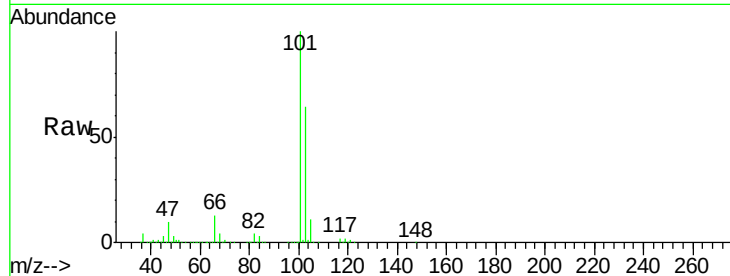
#11
 Trichlorofluoromethane
 Concen: 11.295 ppbv
 RT: 4.00 min Scan# 331
 Delta R.T. 0.01 min
 Lab File: VL033652.D
 Acq: 3 May 2019 6:58

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:101 Resp: 1960780
 Ion Ratio Lower Upper
 101 100
 103 64.1 51.2 76.8

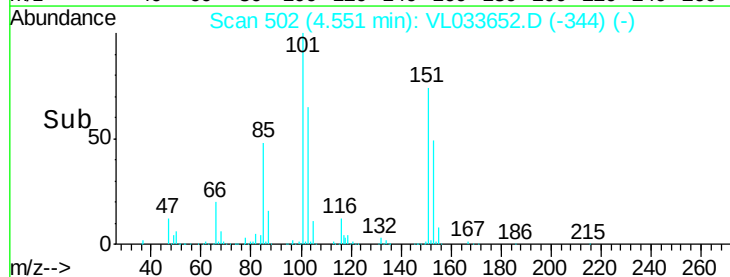
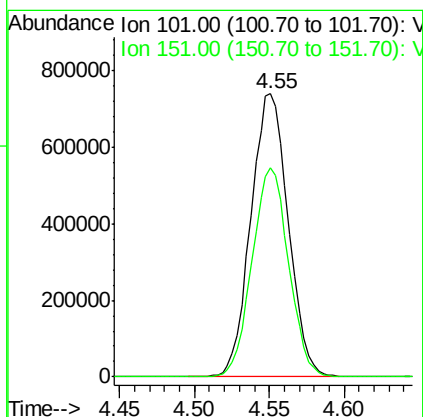
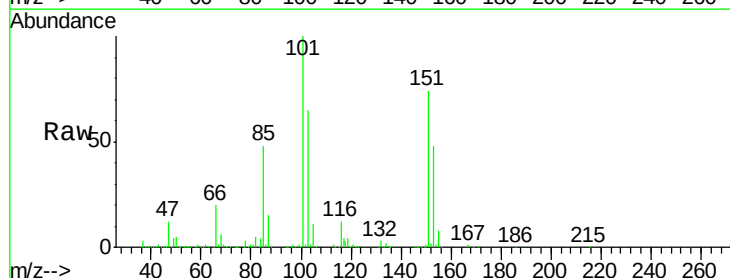
Manual Integrations
 APPROVED

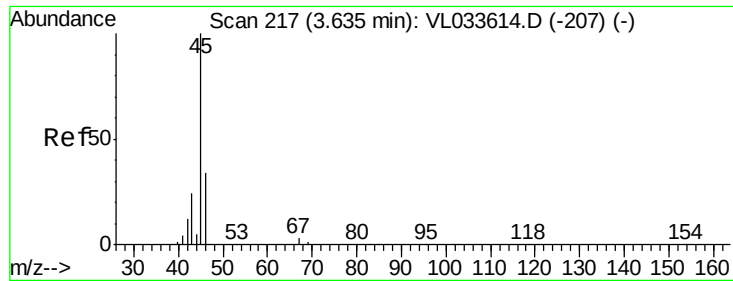
MMDadoda
 5/4/2019 7:20:01 AM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 10.808 ppbv
 RT: 4.55 min Scan# 502
 Delta R.T. 0.01 min
 Lab File: VL033652.D
 Acq: 3 May 2019 6:58

Tgt Ion:101 Resp: 1286790
 Ion Ratio Lower Upper
 101 100
 151 72.5 59.2 88.8





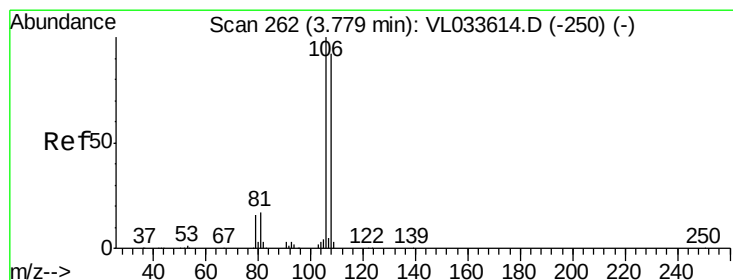
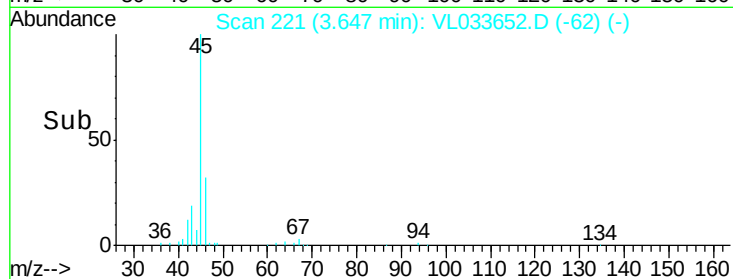
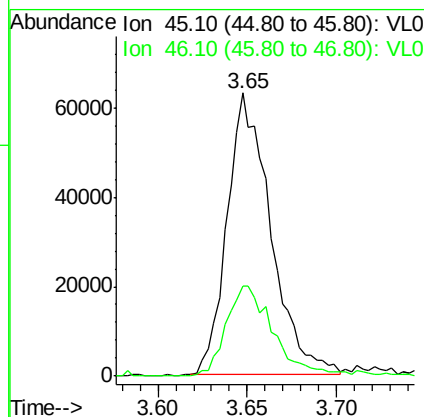
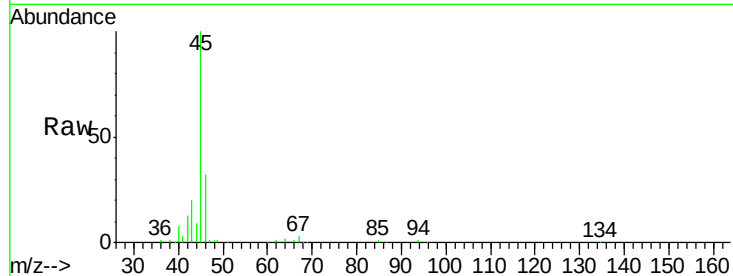
#13
Ethanol
Concen: 7.103 ppbv
RT: 3.65 min Scan# 221
Delta R.T. 0.01 min
Lab File: VL033652.D
Acq: 3 May 2019 6:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	45	46	Ratio	Lower	Upper
45	100				
46	35.8		14.6	58.2	

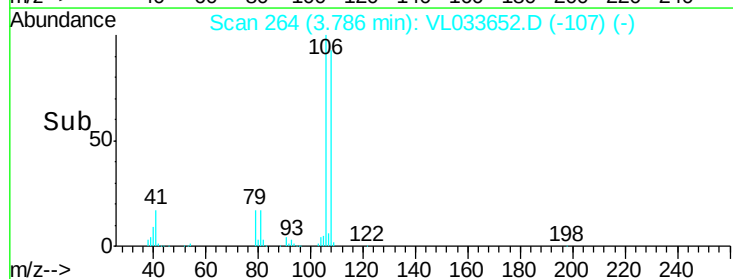
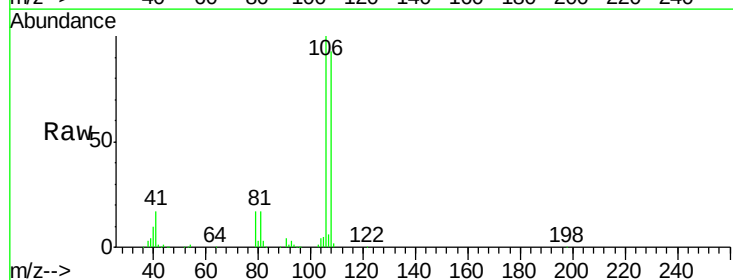
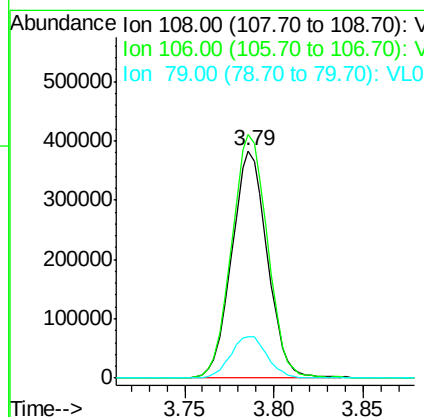
Manual Integrations
APPROVED

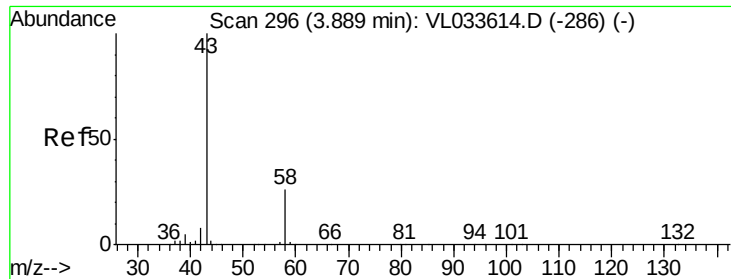
MMDadoda
5/4/2019 7:20:01 AM



#14
Bromoethene
Concen: 10.798 ppbv
RT: 3.79 min Scan# 264
Delta R.T. 0.01 min
Lab File: VL033652.D
Acq: 3 May 2019 6:58

Tgt Ion	108	106	79	Ratio	Lower	Upper
108	100					
106	109.2			84.6	127.0	
79	19.3			14.4	21.6	





#15

Acetone

Concen: 10.318 ppbv

RT: 3.90 min Scan# 300

Delta R.T. 0.01 min

Lab File: VL033652.D

Acq: 3 May 2019 6:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 1217428

Ion Ratio Lower Upper

43 100

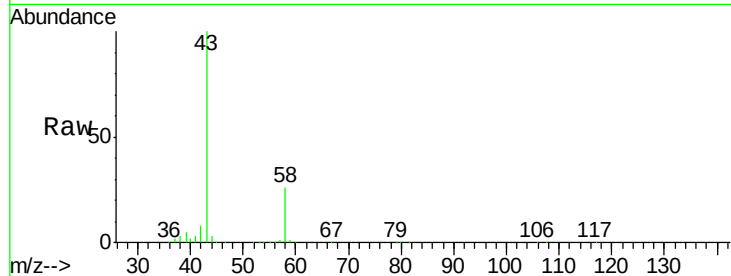
58 26.0 21.2 31.8

Manual Integrations

APPROVED

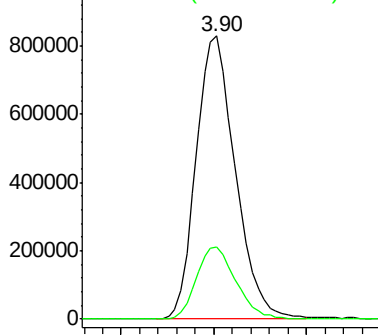
MMDadoda

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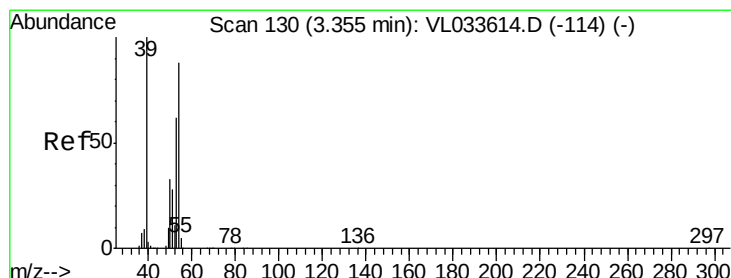
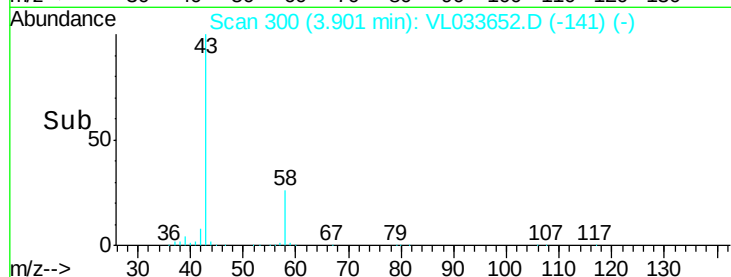


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



Time-->



#16

1,3-Butadiene

Concen: 11.772 ppbv

RT: 3.36 min Scan# 132

Delta R.T. 0.01 min

Lab File: VL033652.D

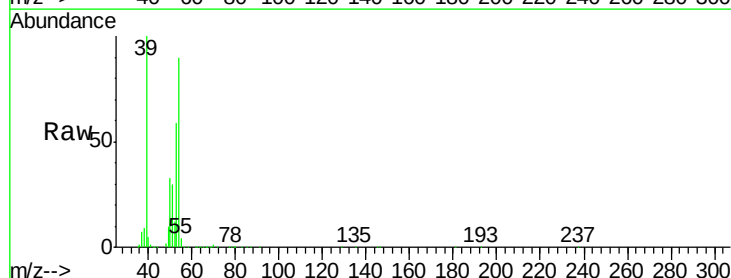
Acq: 3 May 2019 6:58

Tgt Ion: 39 Resp: 625090

Ion Ratio Lower Upper

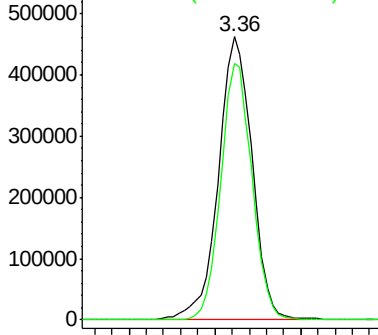
39 100

54 84.3 68.4 102.6

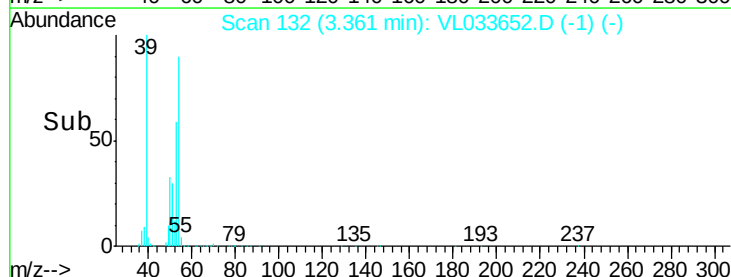


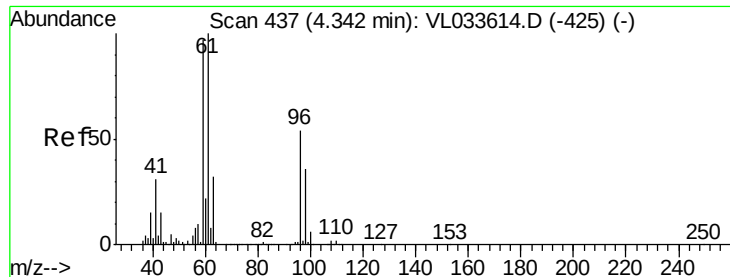
Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0



Time-->





#17

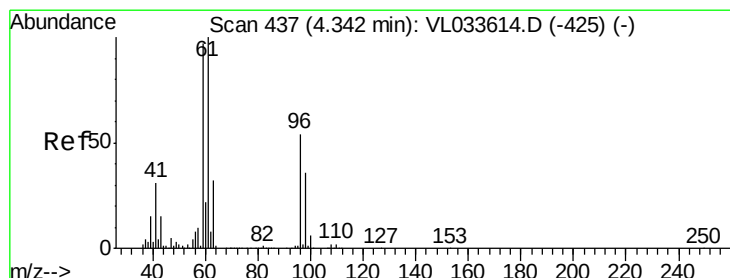
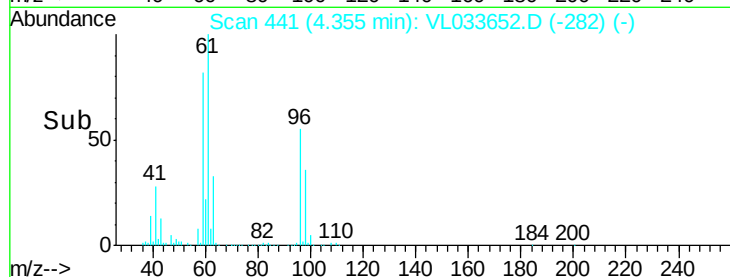
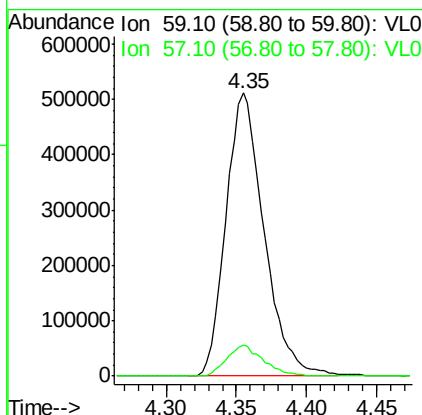
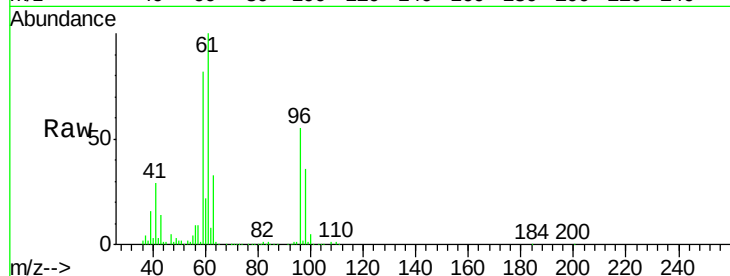
tert-Butyl alcohol
Concen: 9.464 ppbv
RT: 4.35 min Scan# 441
Delta R.T. 0.01 min
Lab File: VL033652.D
Acq: 3 May 2019 6:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 59 Resp: 964092
Ion Ratio Lower Upper
59 100
57 10.7 8.4 12.6

Manual Integrations
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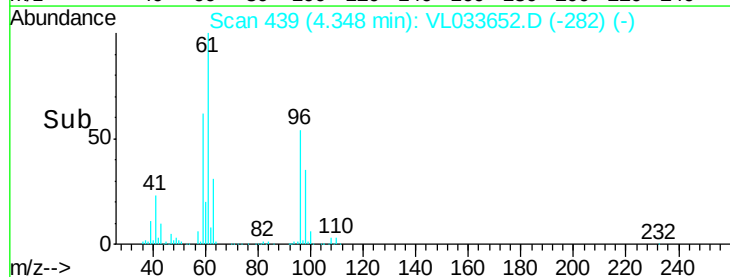
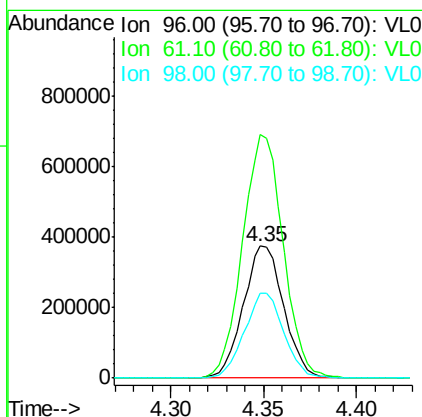
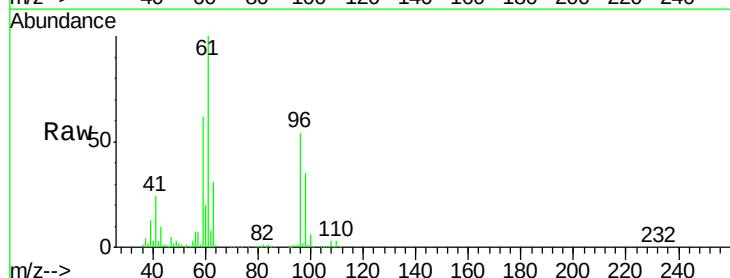
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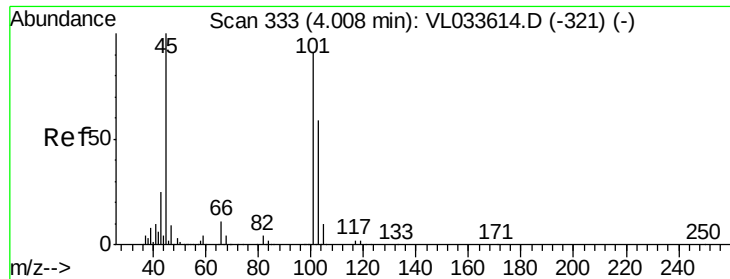


#18

1,1-Dichloroethene
Concen: 11.003 ppbv
RT: 4.35 min Scan# 439
Delta R.T. 0.01 min
Lab File: VL033652.D
Acq: 3 May 2019 6:58

Tgt Ion: 96 Resp: 569284
Ion Ratio Lower Upper
96 100
61 184.8 147.3 220.9
98 64.4 53.6 80.4





#19

Isopropyl Alcohol

Concen: 9.679 ppbv

RT: 4.02 min Scan# 338

Delta R.T. 0.02 min

Lab File: VL033652.D

Acq: 3 May 2019 6:58

Tot Ion: 45 Resp: 783786

Ion Ratio Lower Upper

45 100

58 2.3 1.8 2.6

Instrument :

MSVOA_L

ClientSampleId :

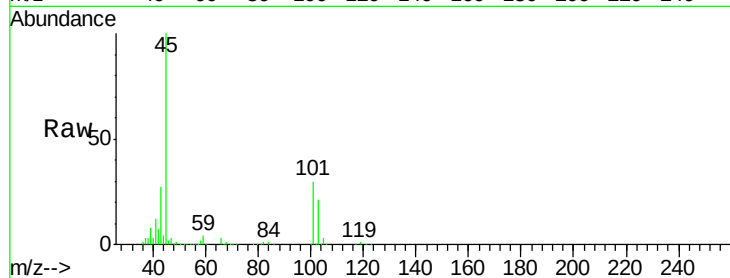
VSTDCCC010EC

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

4.02

500000

400000

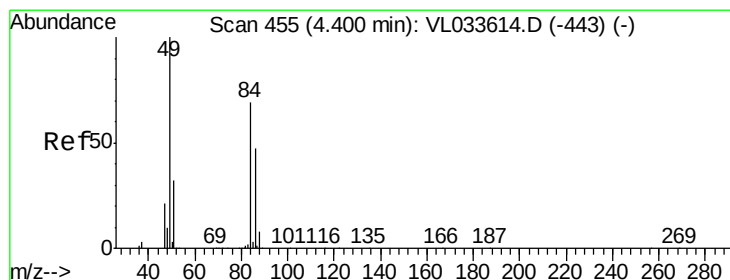
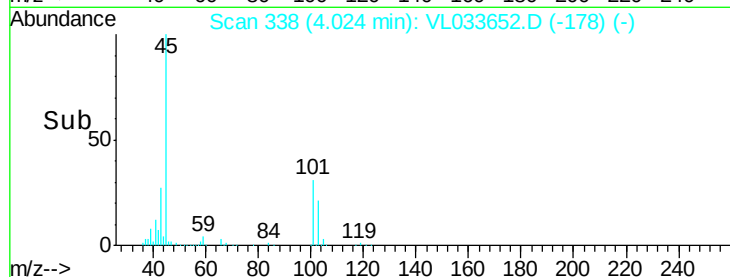
300000

200000

100000

0

Time-->



#20

Methylene Chloride

Concen: 10.458 ppbv

RT: 4.41 min Scan# 457

Delta R.T. 0.01 min

Lab File: VL033652.D

Acq: 3 May 2019 6:58

Tgt Ion: 84 Resp: 480868

Ion Ratio Lower Upper

84 100

49 142.5 116.2 174.2

51 41.5 37.0 55.6

86 60.8 54.0 81.0

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

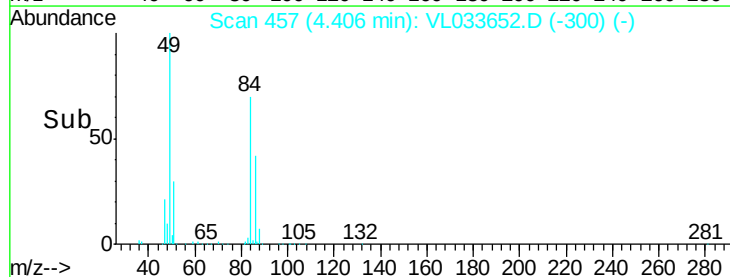
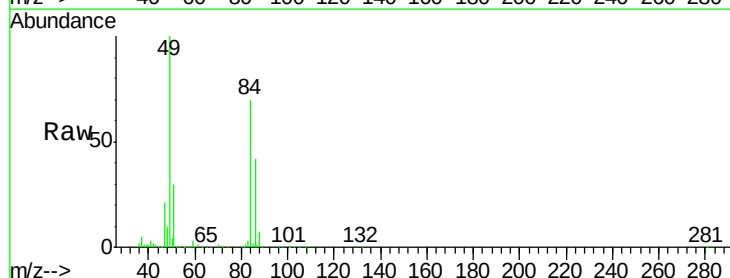
600000

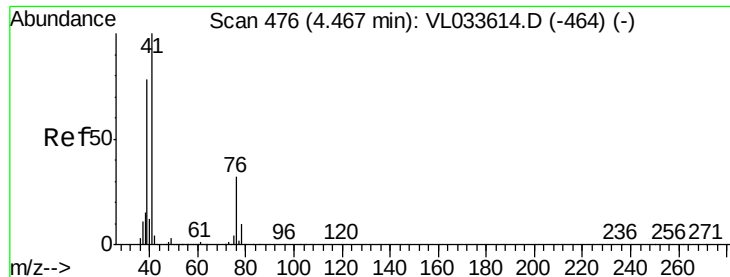
400000

200000

0

Time-->





#21

Allvl Chloride

Concen: 11.185 ppbv

RT: 4.47 min Scan# 478

Delta R.T. 0.01 min

Lab File: VL033652.D

Acq: 3 May 2019 6:58

Instrument :

MSVOA_L

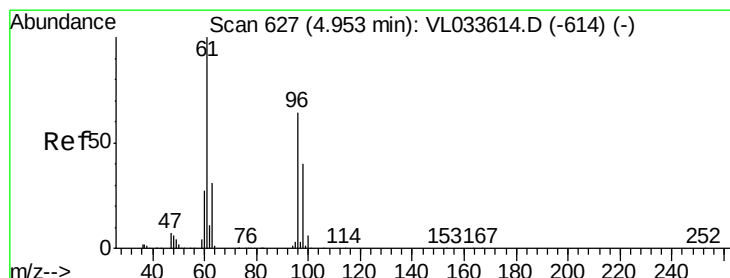
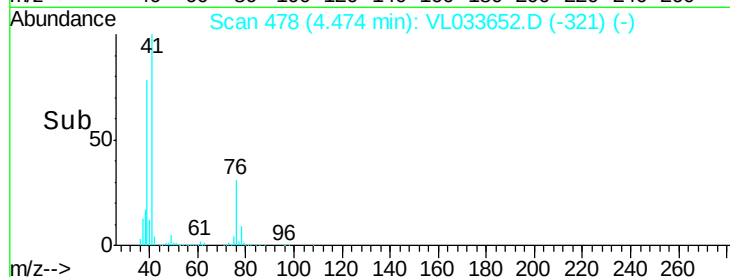
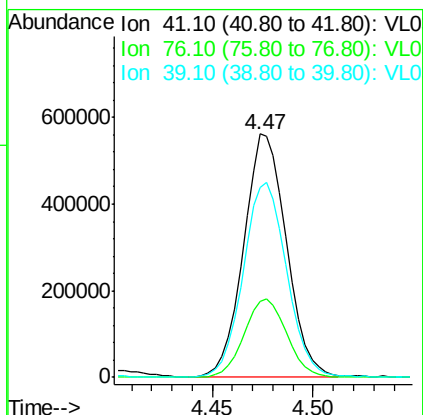
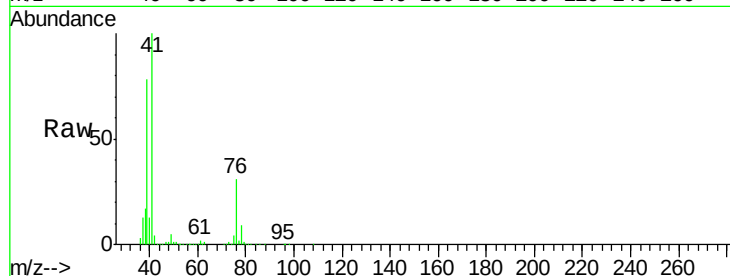
ClientSampleId :

VSTDCCC010EC

Tot Ion:	41	Resp:	830176
Ion Ratio		Lower	Upper
41	100		
76	32.3	25.0	37.6
39	82.3	64.6	96.8

Manual Integrations
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#22

trans-1,2-Dichloroethene

Concen: 11.537 ppbv

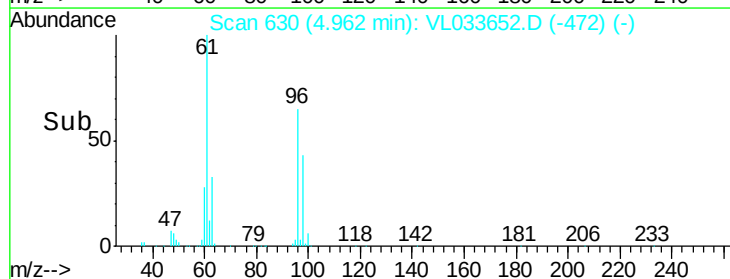
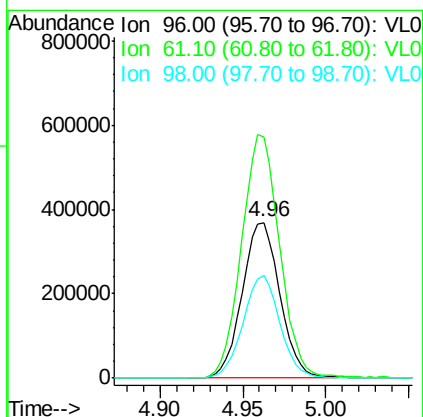
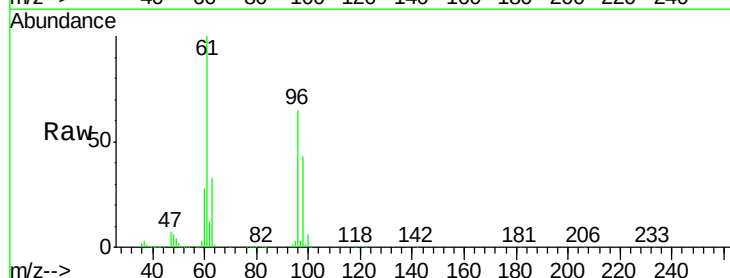
RT: 4.96 min Scan# 630

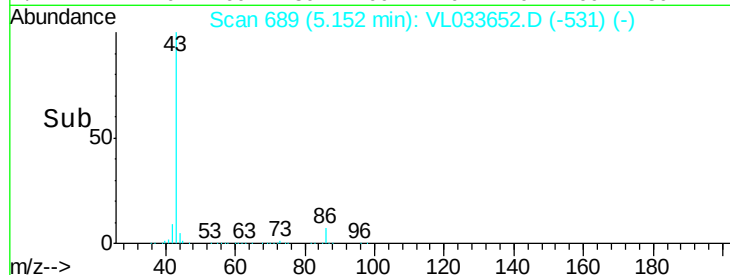
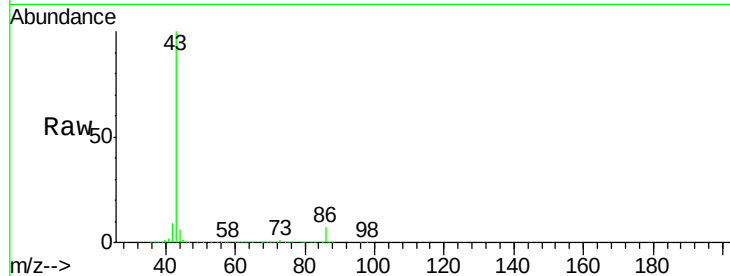
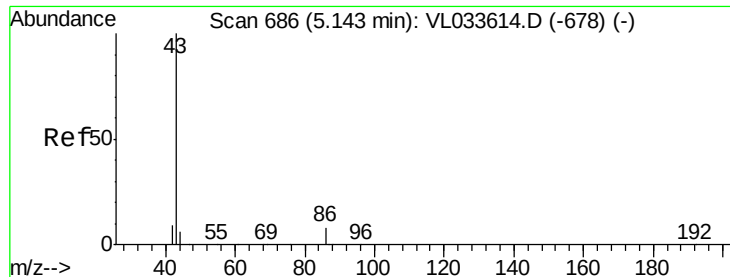
Delta R.T. 0.01 min

Lab File: VL033652.D

Acq: 3 May 2019 6:58

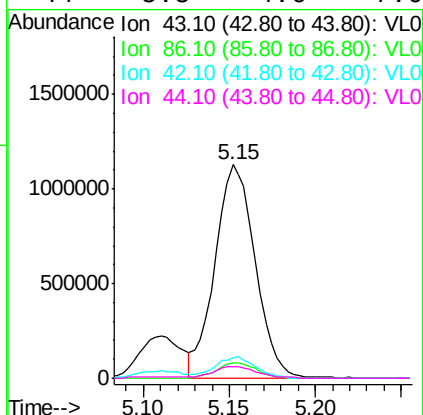
Tgt Ion:	96	Resp:	584598
Ion Ratio		Lower	Upper
96	100		
61	154.4	124.9	187.3
98	65.6	50.5	75.7





#23
 Vinyl Acetate
 Concen: 10.452 ppbv
 RT: 5.15 min Scan# 689
 Delta R.T. 0.01 min
 Lab File: VL033652.D
 Acq: 3 May 2019 6:58

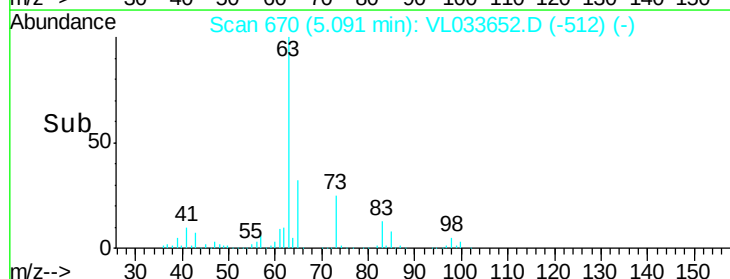
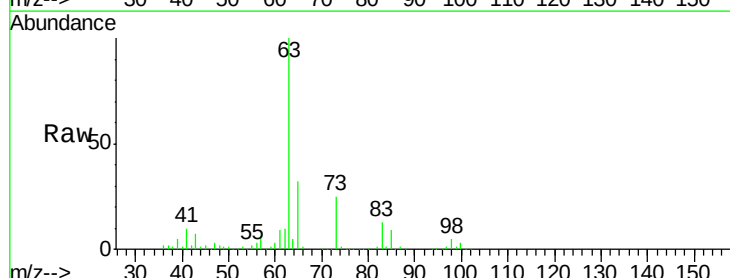
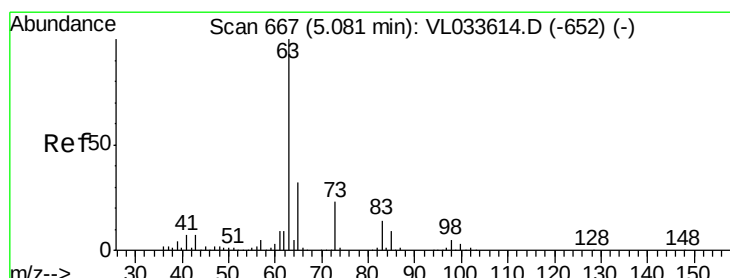
Tot Ion:	43	Resp:	1833904
Ion	Ratio	Lower	Upper
43	100		
86	7.1	5.8	8.8
42	9.3	7.8	11.8
44	5.5	4.6	7.0



Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

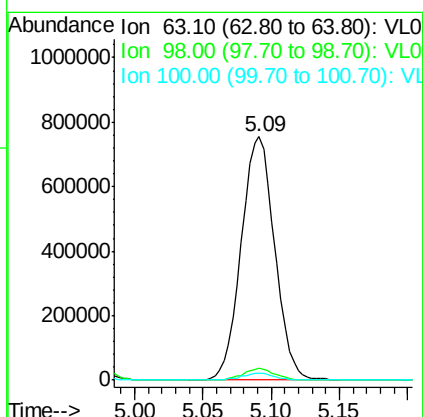
Manual Integrations
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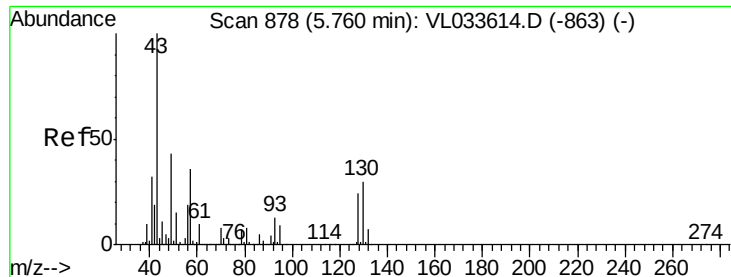
MMDadoda
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#24
 1,1-Dichloroethane
 Concen: 9.836 ppbv
 RT: 5.09 min Scan# 670
 Delta R.T. 0.01 min
 Lab File: VL033652.D
 Acq: 3 May 2019 6:58

Tgt Ion:	63	Resp:	1284768
Ion	Ratio	Lower	Upper
63	100		
98	4.8	2.4	7.2
100	2.7	1.4	4.0





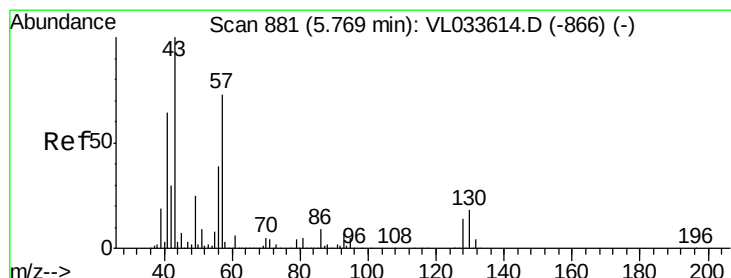
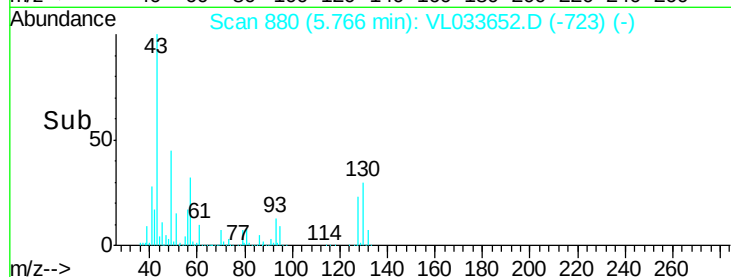
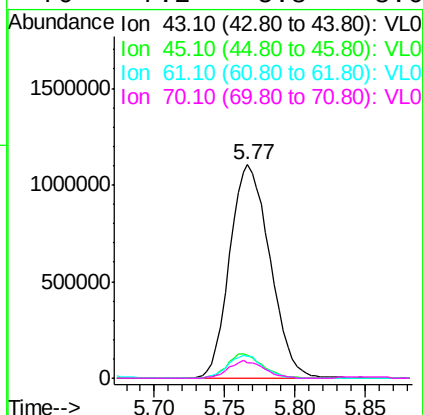
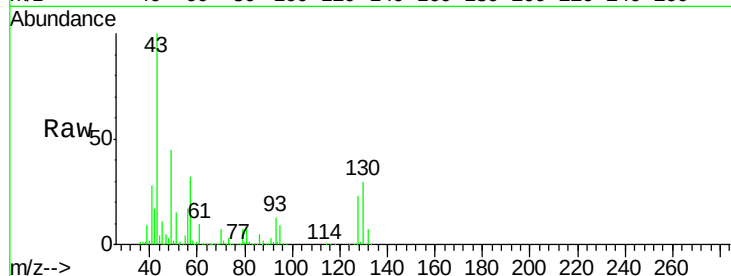
#25
Ethyl Acetate
Concen: 9.827 ppbv
RT: 5.77 min Scan# 880
Delta R.T. 0.01 min
Lab File: VL033652.D
Acq: 3 May 2019 6:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ion	Ratio	Lower	Upper
43	100			
45	10.0	8.1	12.1	
61	9.4	7.5	11.3	
70	7.2	5.8	8.6	

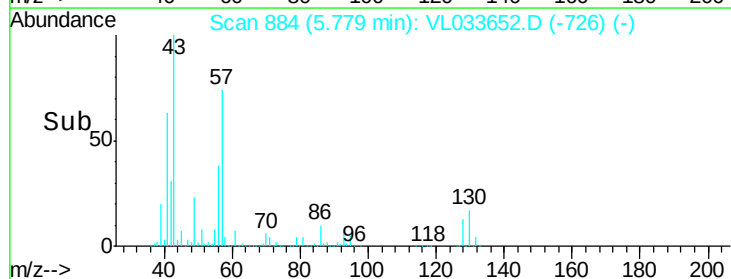
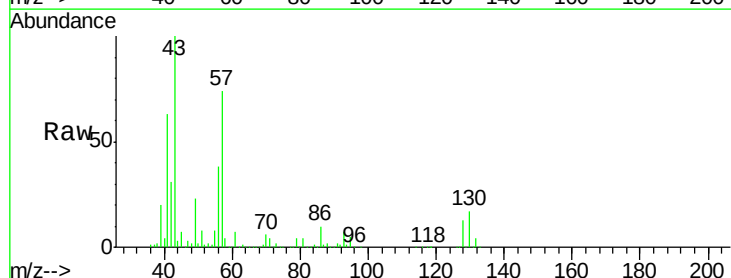
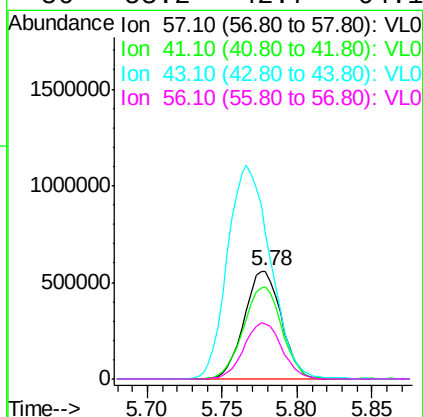
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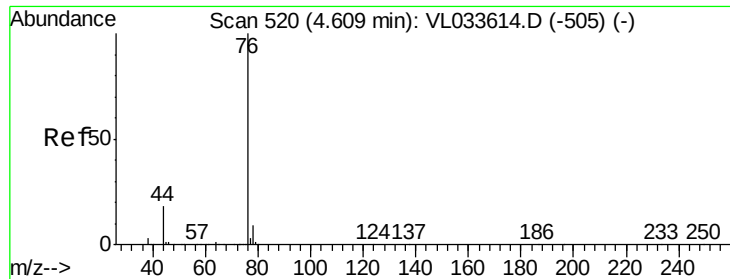
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#26
Hexane
Concen: 10.234 ppbv
RT: 5.78 min Scan# 884
Delta R.T. 0.01 min
Lab File: VL033652.D
Acq: 3 May 2019 6:58

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	88.4	70.6	106.0	
43	229.0	186.0	279.0	
56	53.2	42.7	64.1	





#27

Carbon Disulfide

Concen: 12.453 ppbv

RT: 4.62 min Scan# 523

Delta R.T. 0.01 min

Lab File: VL033652.D

Acq: 3 May 2019 6:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 76 Resp: 1422015

Ion Ratio Lower Upper

76 100

44 17.7 14.3 21.5

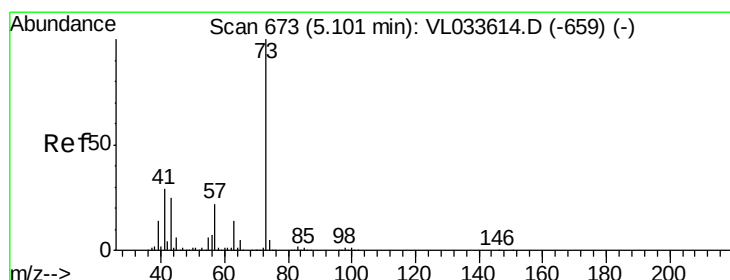
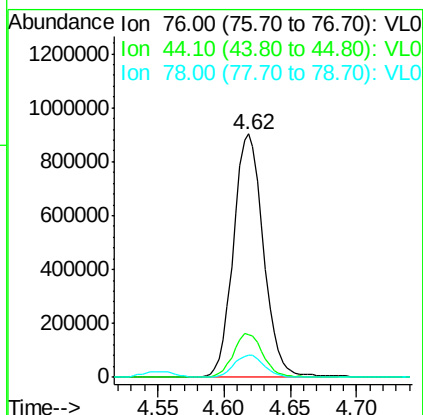
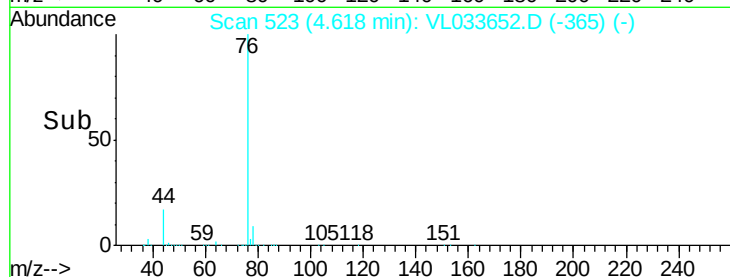
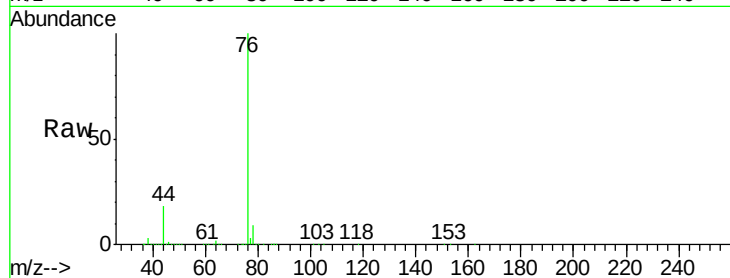
78 9.0 7.5 11.3

Manual Integrations

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#28

Methyl tert-Butyl Ether

Concen: 9.862 ppbv

RT: 5.11 min Scan# 676

Delta R.T. 0.01 min

Lab File: VL033652.D

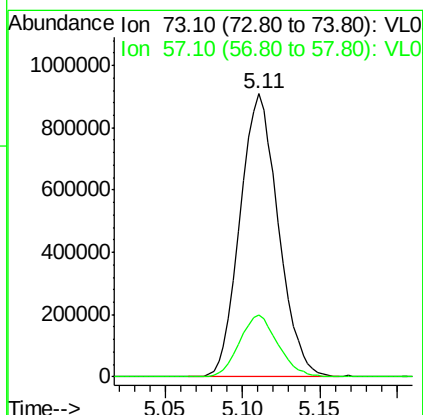
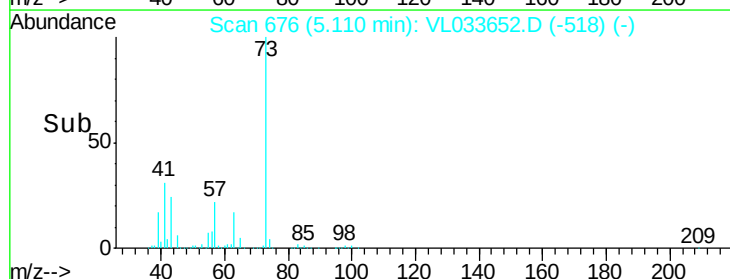
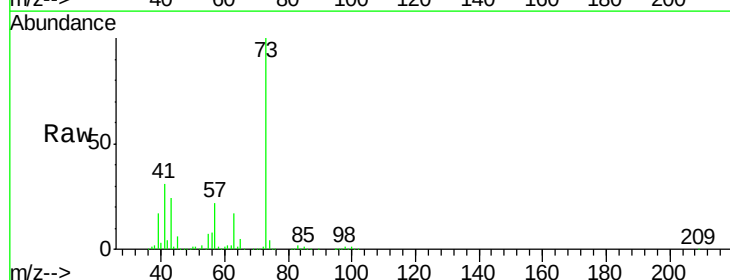
Acq: 3 May 2019 6:58

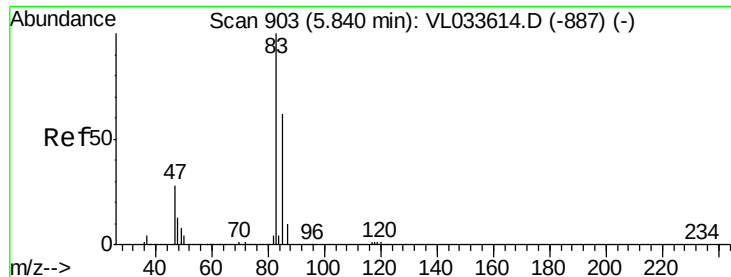
Tgt Ion: 73 Resp: 1568128

Ion Ratio Lower Upper

73 100

57 22.2 17.8 26.8





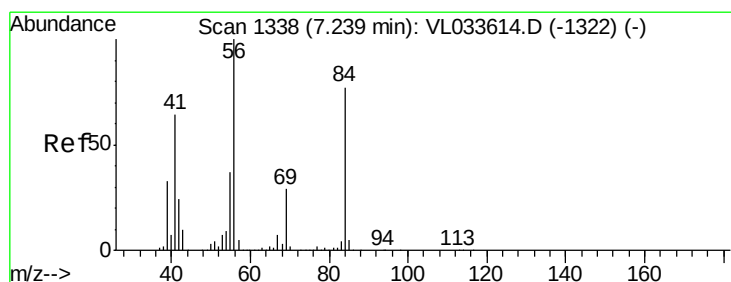
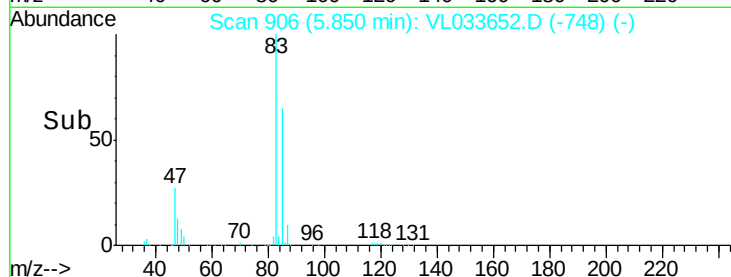
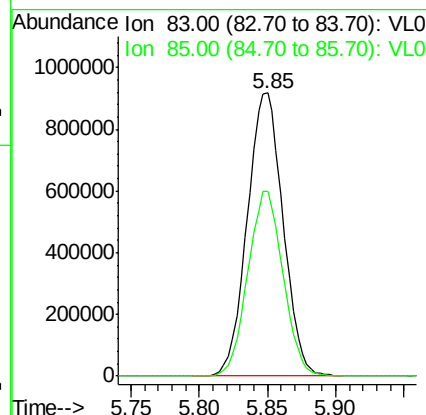
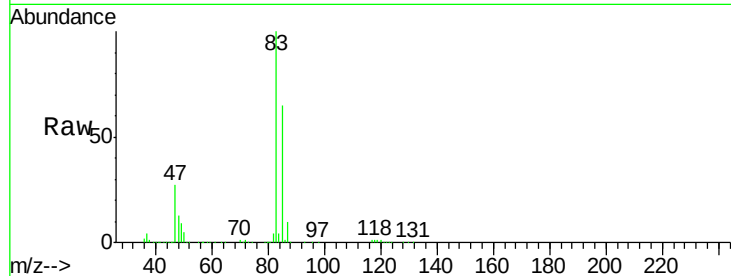
#29
Chloroform
Concen: 9.666 ppbv
RT: 5.85 min Scan# 906
Delta R.T. 0.01 min
Lab File: VL033652.D
Acq: 3 May 2019 6:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 83 Resp: 1670297
Ion Ratio Lower Upper
83 100
85 65.2 49.9 74.9

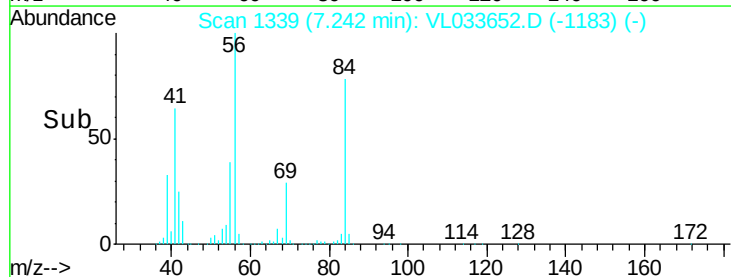
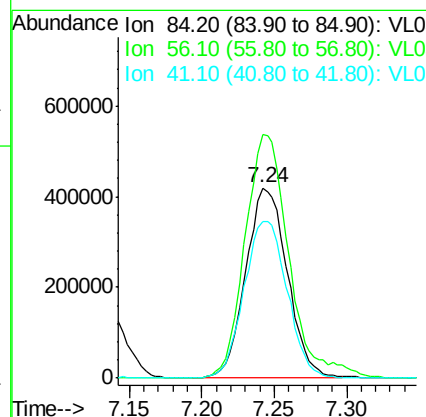
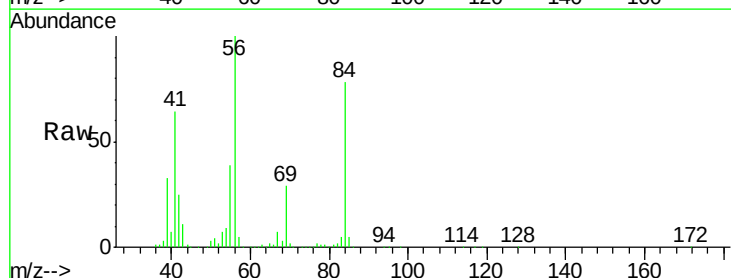
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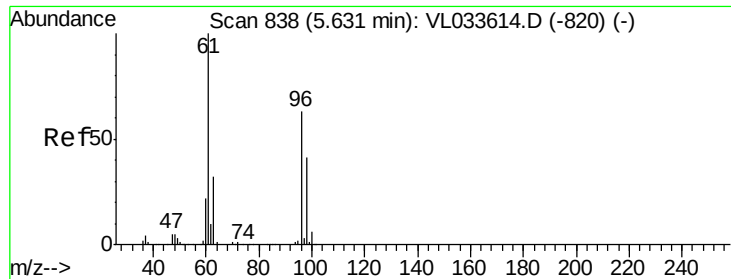
MMDadoda
5/4/2019 7:20:01 AM



#30
Cyclohexane
Concen: 10.513 ppbv
RT: 7.24 min Scan# 1339
Delta R.T. 0.00 min
Lab File: VL033652.D
Acq: 3 May 2019 6:58

Tgt Ion: 84 Resp: 839175
Ion Ratio Lower Upper
84 100
56 135.6 108.4 162.6
41 85.3 67.0 100.4





#31

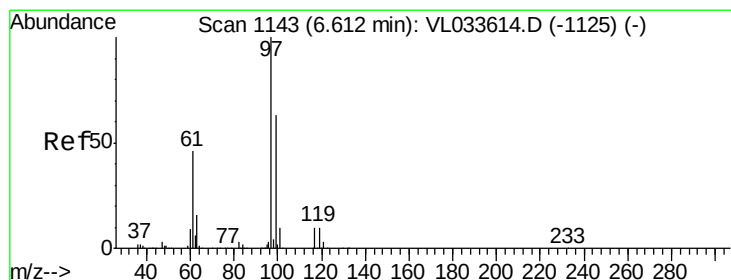
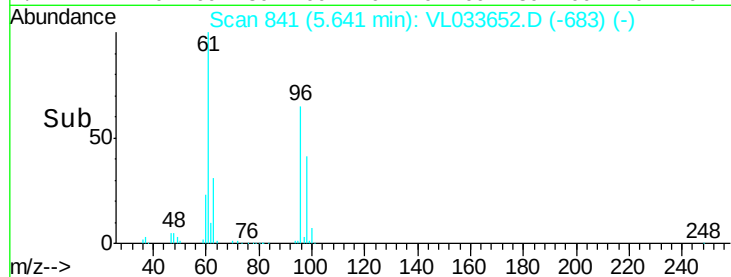
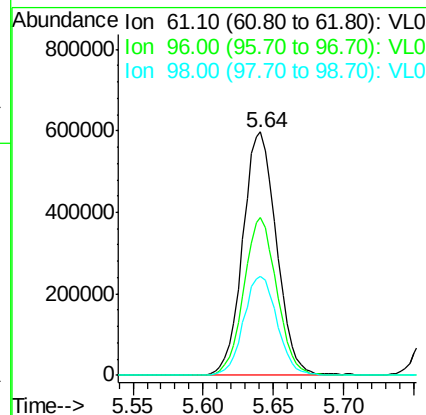
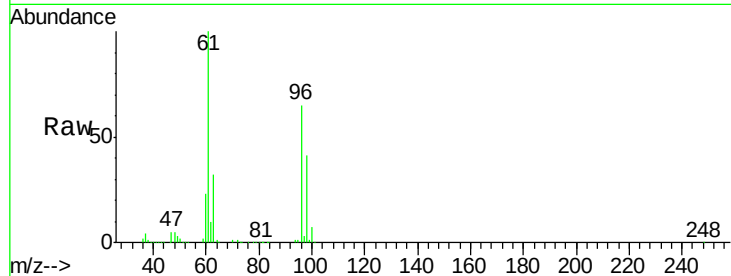
cis-1,2-Dichloroethene
Concen: 10.519 ppbv
RT: 5.64 min Scan# 841
Delta R.T. 0.01 min
Lab File: VL033652.D
Acq: 3 May 2019 6:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
61	100		
96	65.0	50.6	76.0
98	40.8	32.8	49.2

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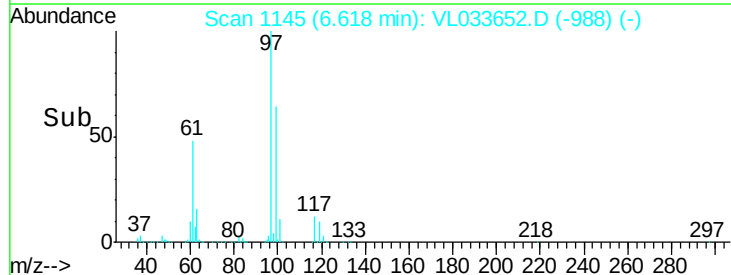
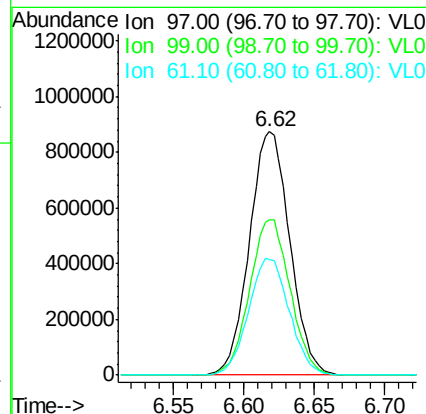
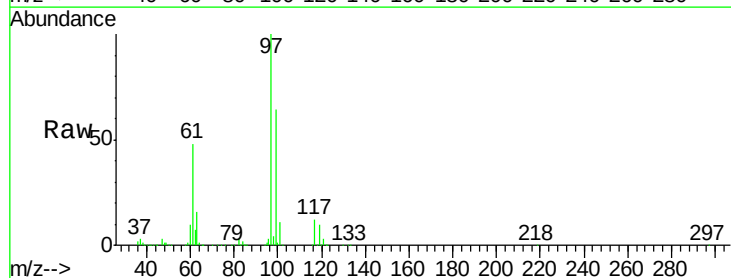
MMDadoda
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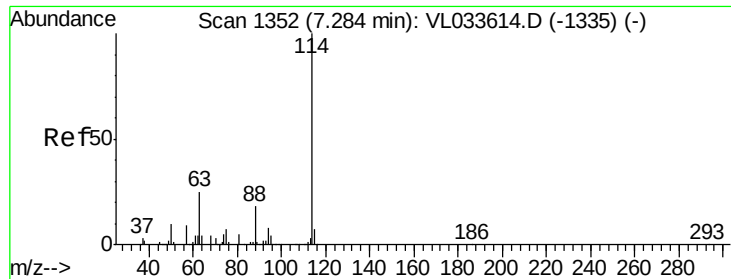


#32

1,1,1-Trichloroethane
Concen: 9.683 ppbv
RT: 6.62 min Scan# 1145
Delta R.T. 0.01 min
Lab File: VL033652.D
Acq: 3 May 2019 6:58

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.4	51.9	77.9
61	48.4	38.2	57.2





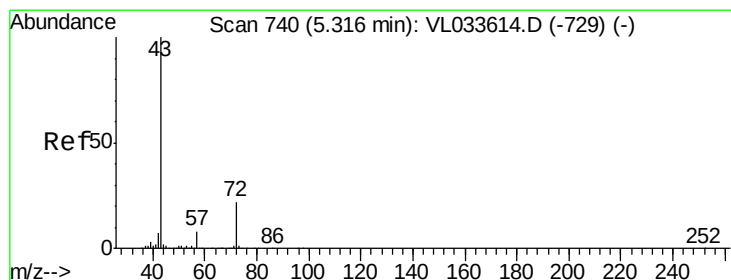
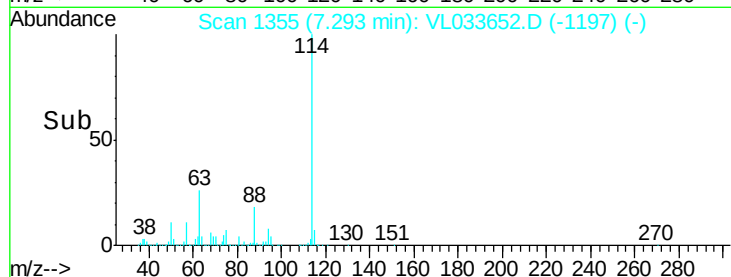
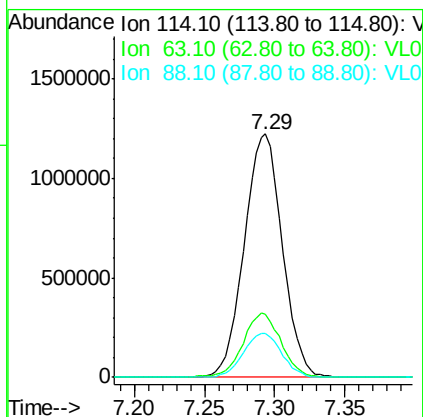
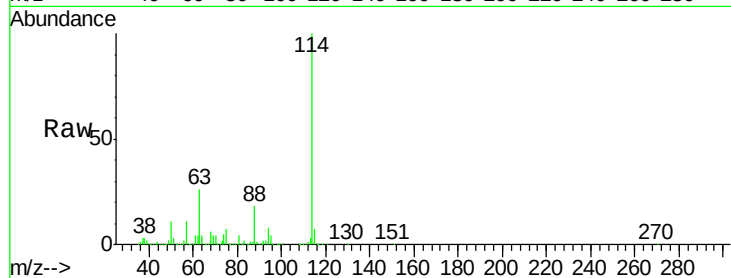
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1355
 Delta R.T. 0.01 min
 Lab File: VL033652.D
 Acq: 3 May 2019 6:58

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
114	100		
63	26.8	21.1	31.7
88	18.2	14.2	21.4

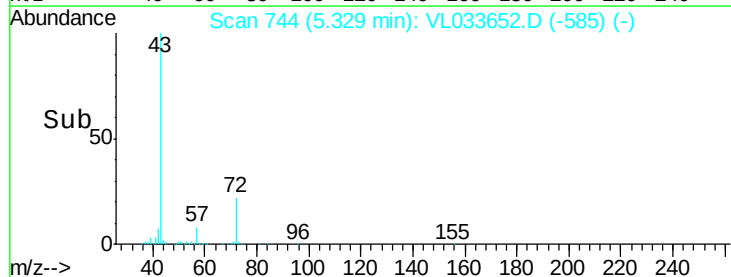
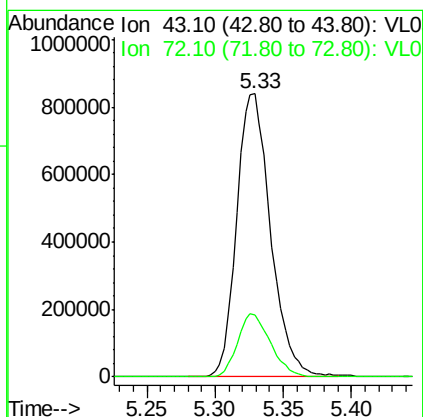
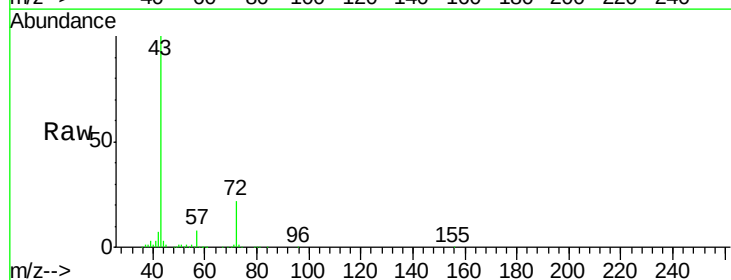
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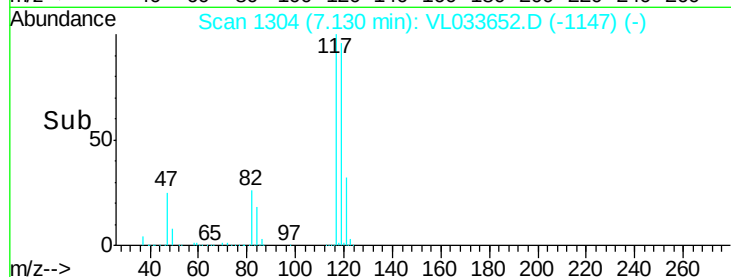
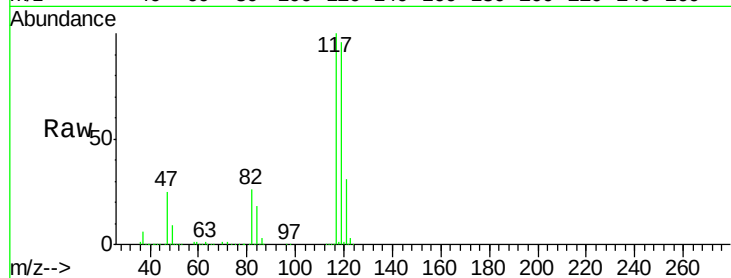
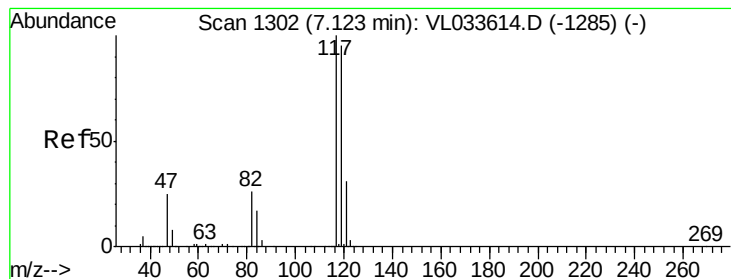
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 5/4/2019 7:20:01 AM



#34
 2-Butanone
 Concen: 10.185 ppbv
 RT: 5.33 min Scan# 744
 Delta R.T. 0.01 min
 Lab File: VL033652.D
 Acq: 3 May 2019 6:58

Tgt Ion	Ratio	Lower	Upper
43	100		
72	21.9	17.8	26.8





#35

Carbon Tetrachloride

Concen: 10.374 ppbv

RT: 7.13 min Scan# 1304

Delta R.T. 0.01 min

Lab File: VL033652.D

Acq: 3 May 2019 6:58

Tot Ion: 117 Resp: 1896959

Ion Ratio Lower Upper

117 100

119 96.4 76.2 114.4

121 31.4 24.9 37.3

Instrument :

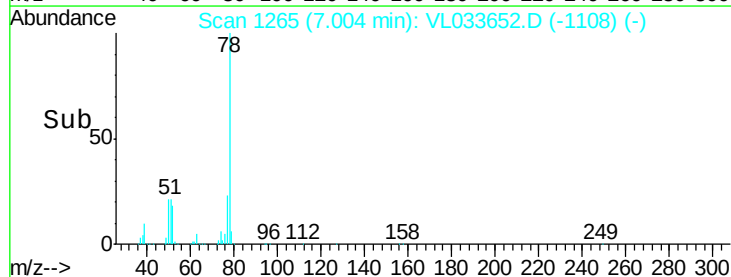
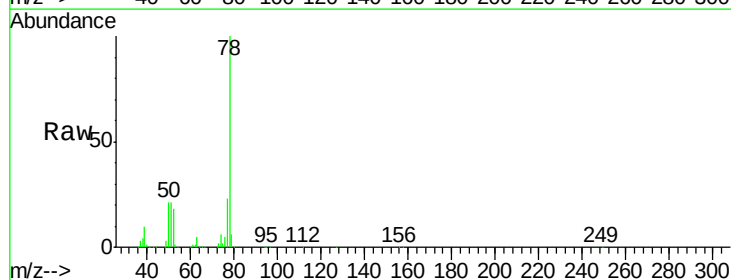
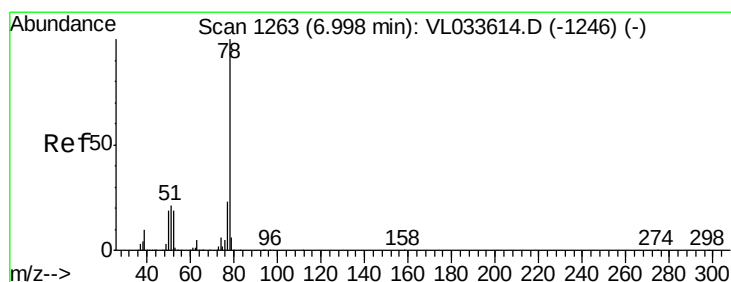
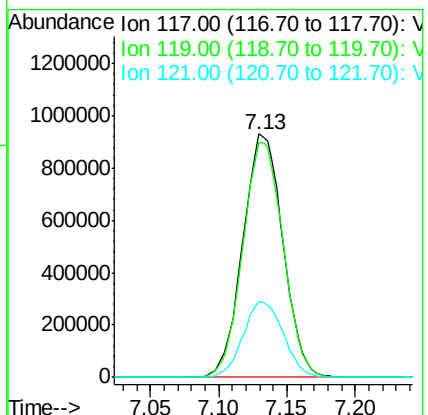
MSVOA_L

ClientSampleId :

VSTDCCC010EC

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#36

Benzene

Concen: 10.670 ppbv

RT: 7.00 min Scan# 1265

Delta R.T. 0.01 min

Lab File: VL033652.D

Acq: 3 May 2019 6:58

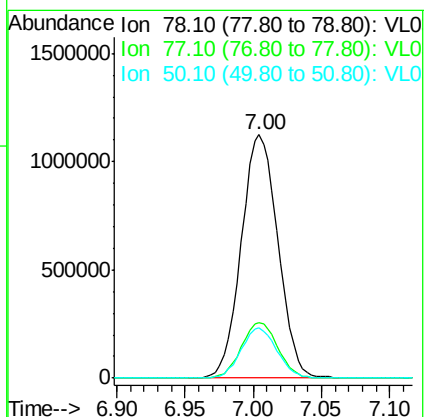
Tgt Ion: 78 Resp: 2098456

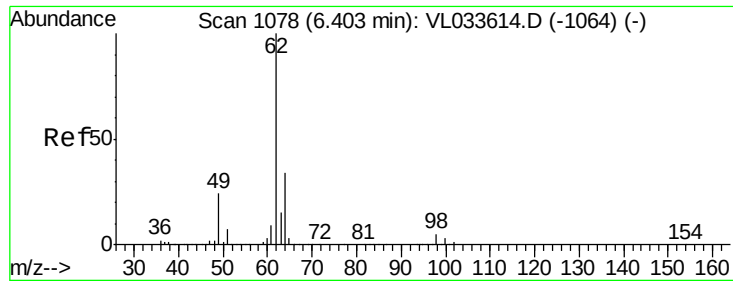
Ion Ratio Lower Upper

78 100

77 22.9 18.1 27.1

50 20.6 15.1 22.7





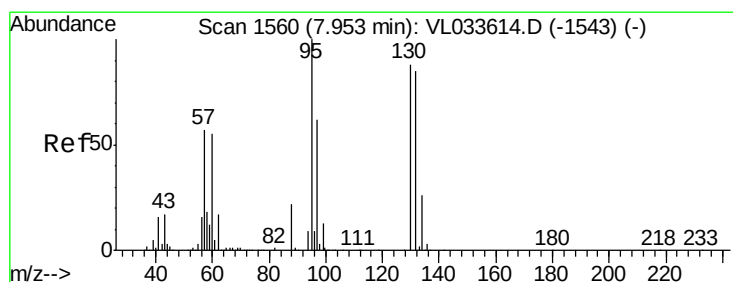
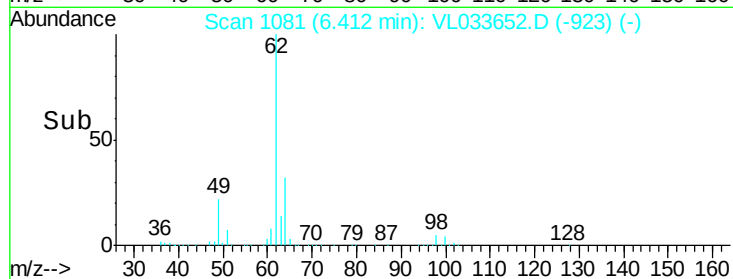
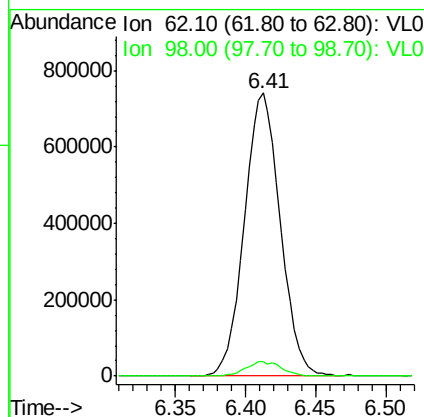
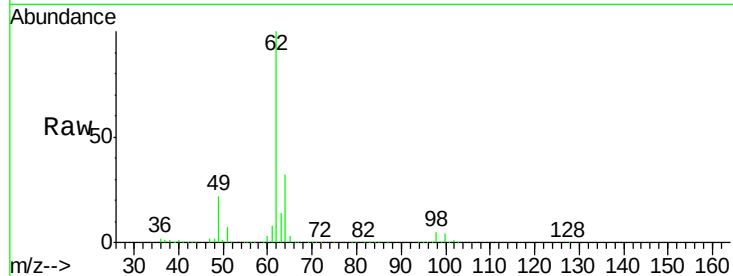
#37
1,2-Dichloroethane
Concen: 10.118 ppbv
RT: 6.41 min Scan# 1081
Delta R.T. 0.01 min
Lab File: VL033652.D
Acq: 3 May 2019 6:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 62 Resp: 1322238
Ion Ratio Lower Upper
62 100
98 5.3 4.4 6.6

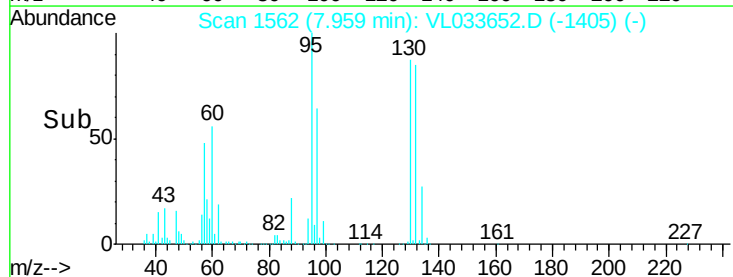
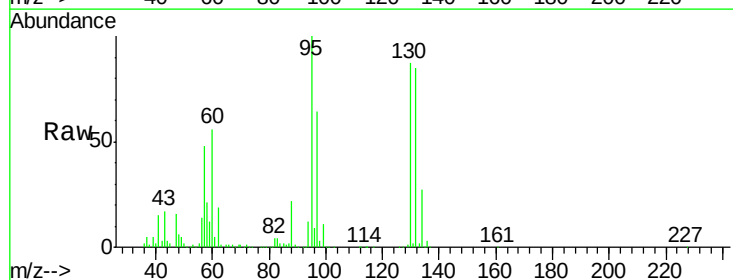
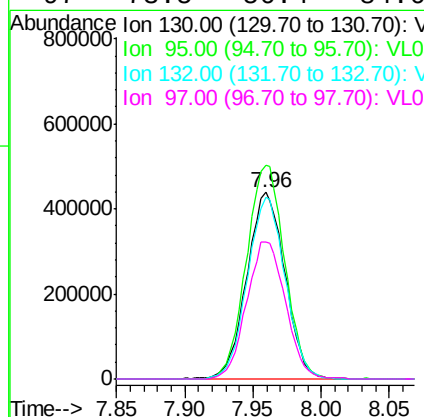
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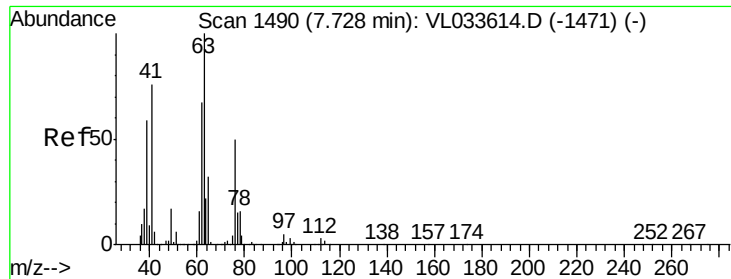
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#38
Trichloroethene
Concen: 10.861 ppbv
RT: 7.96 min Scan# 1562
Delta R.T. 0.01 min
Lab File: VL033652.D
Acq: 3 May 2019 6:58

Tgt Ion:130 Resp: 851877
Ion Ratio Lower Upper
130 100
95 114.2 91.2 136.8
132 96.9 77.8 116.8
97 73.5 56.4 84.6





#39

1,2-Dichloropropane

Concen: 10.294 ppbv

RT: 7.74 min Scan# 1493

Delta R.T. 0.01 min

Lab File: VL033652.D

Acq: 3 May 2019 6:58

Instrument :

MSVOA_L

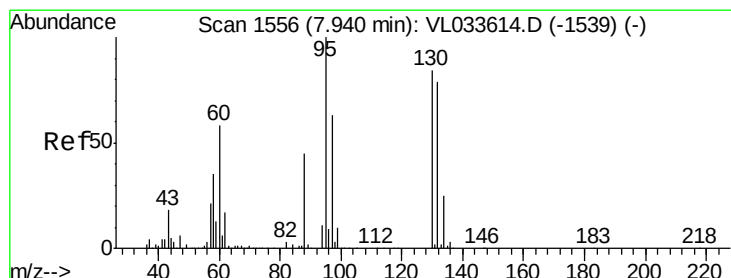
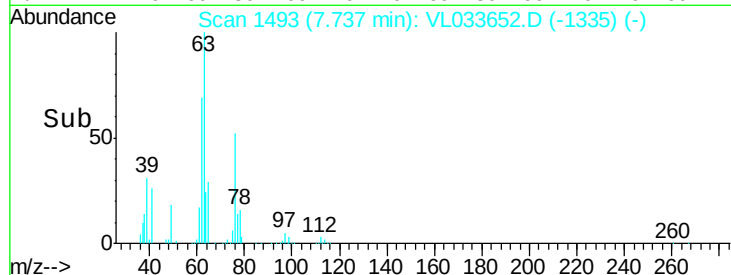
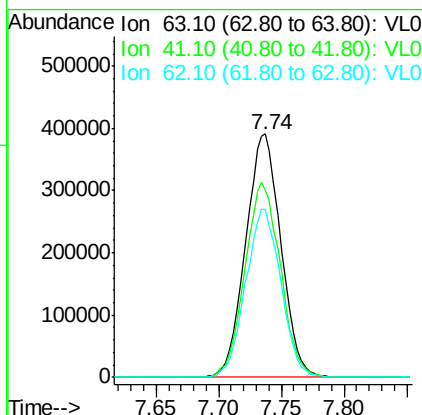
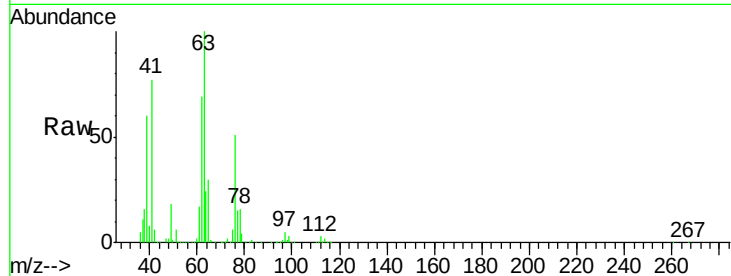
ClientSampleId :

VSTDCCC010EC

Tot Ion:	63	Resp:	763435
Ion Ratio	Lower	Upper	
63	100		
41	77.1	60.9	91.3
62	69.0	53.3	79.9

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#40

1,4-Dioxane

Concen: 10.119 ppbv

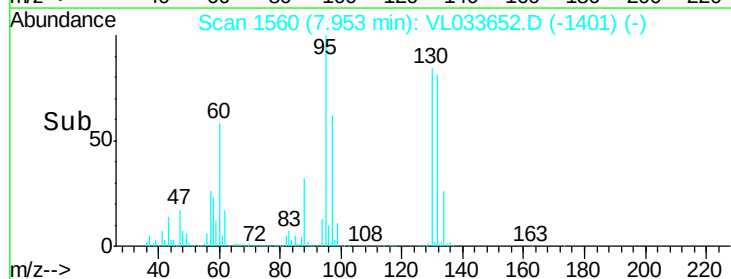
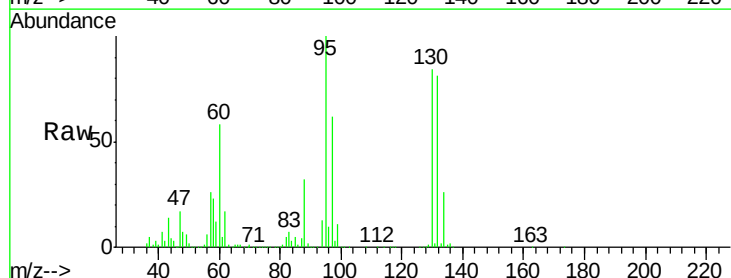
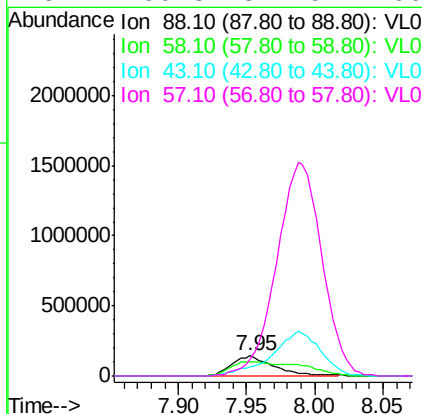
RT: 7.95 min Scan# 1560

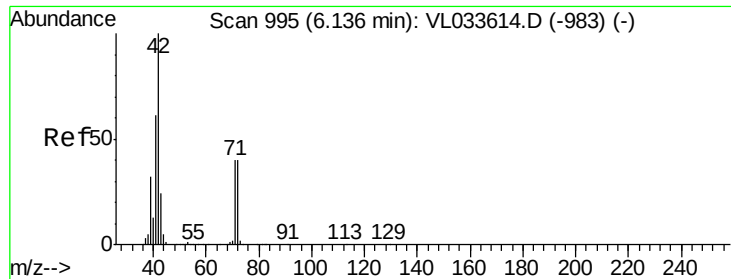
Delta R.T. 0.01 min

Lab File: VL033652.D

Acq: 3 May 2019 6:58

Tgt Ion:	88	Resp:	304932
Ion Ratio	Lower	Upper	
88	100		
58	129.0	98.4	147.6
43	259.4	190.7	286.1
57	1159.8	844.5	1266.7





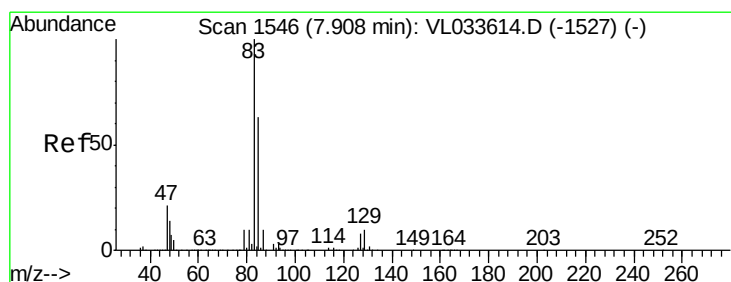
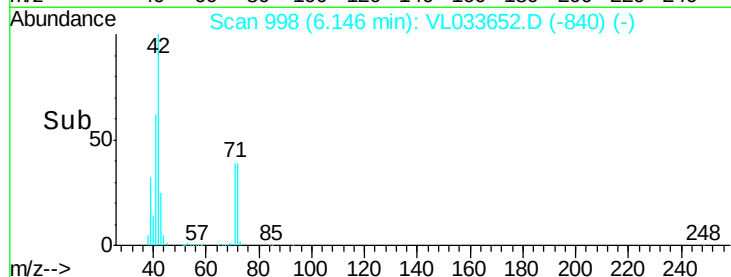
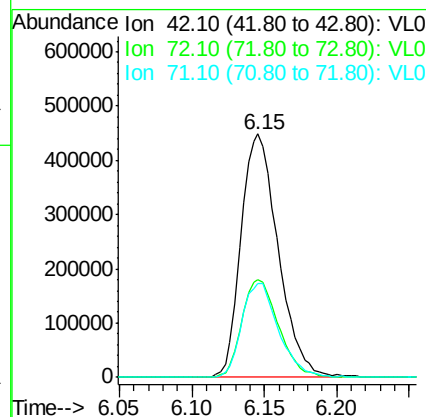
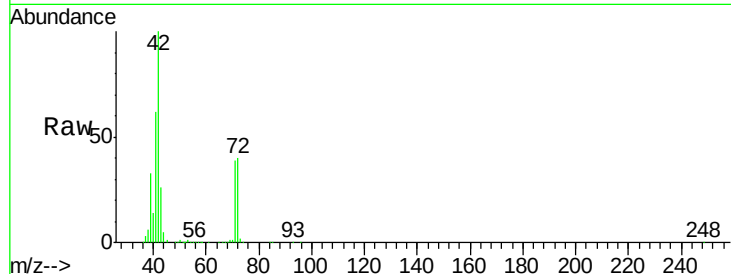
#41
Tetrahydrofuran
Concen: 10.557 ppbv
RT: 6.15 min Scan# 998
Delta R.T. 0.01 min
Lab File: VL033652.D
Acq: 3 May 2019 6:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ion	Ratio	Resp	Lower	Upper
42	100		798912		
72	39.9	31.8	47.6		
71	38.4	31.0	46.4		

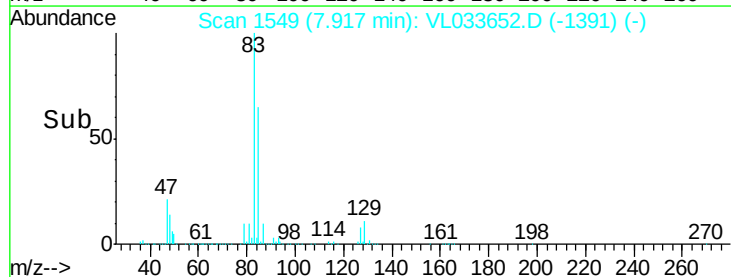
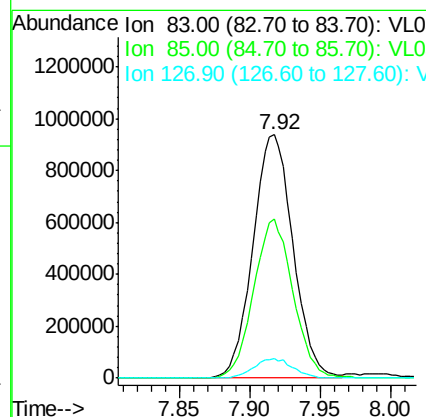
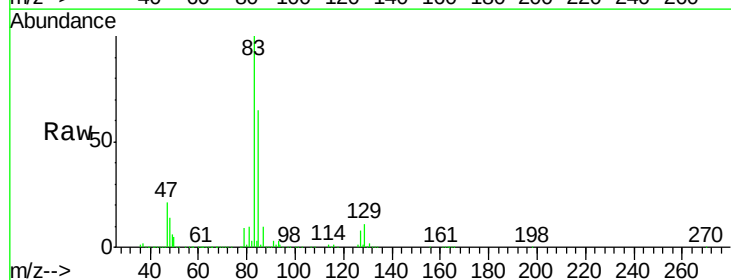
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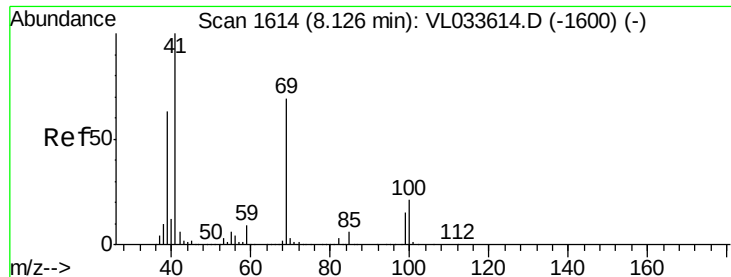
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#42
Bromodichloromethane
Concen: 10.537 ppbv
RT: 7.92 min Scan# 1549
Delta R.T. 0.01 min
Lab File: VL033652.D
Acq: 3 May 2019 6:58

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
83	100		1863509		
85	65.2	50.2	75.4		
127	7.9	6.5	9.7		





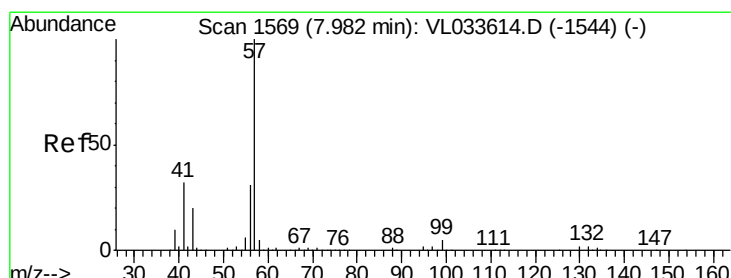
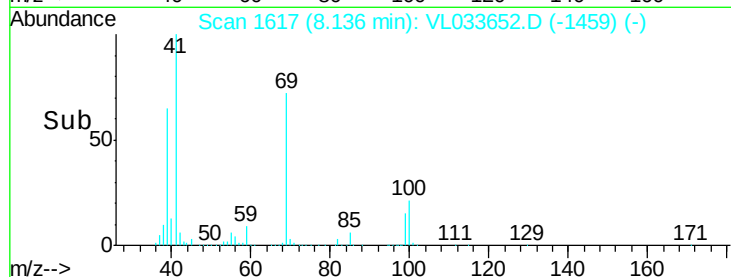
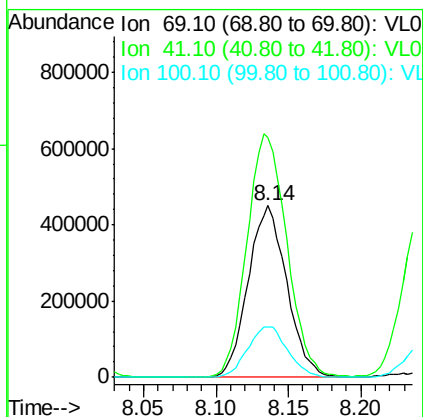
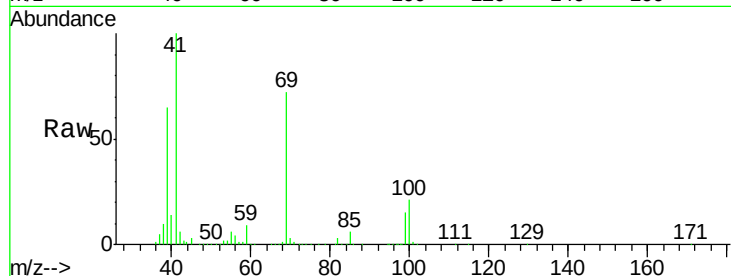
#43
Methyl Methacrylate
Concen: 11.227 ppbv
RT: 8.14 min Scan# 1617
Delta R.T. 0.01 min
Lab File: VL033652.D
Acq: 3 May 2019 6:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ion	Ratio	Resp	Lower	Upper
69	100		836136		
41	146.6	115.0	172.4		
100	30.6	24.7	37.1		

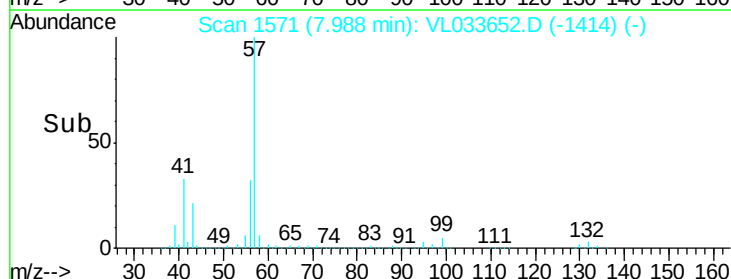
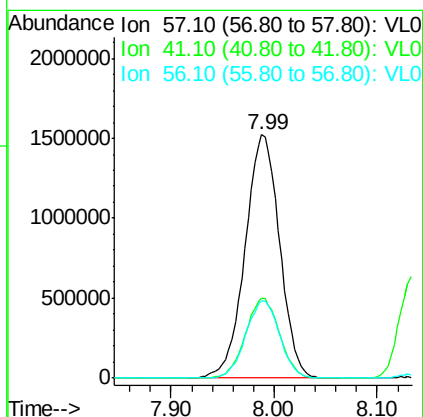
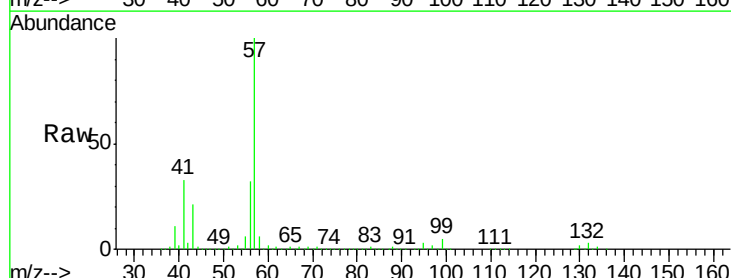
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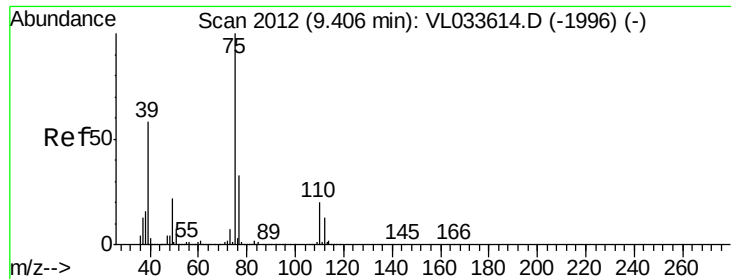
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#44
2,2,4-Trimethylpentane
Concen: 10.303 ppbv
RT: 7.99 min Scan# 1571
Delta R.T. 0.01 min
Lab File: VL033652.D
Acq: 3 May 2019 6:58

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
57	100		3531335		
41	32.4	25.4	38.2		
56	31.2	24.6	37.0		





#45

t-1,3-Dichloropropene

Concen: 11.781 ppbv

RT: 9.42 min Scan# 2015

Delta R.T. 0.01 min

Lab File: VL033652.D

Acq: 3 May 2019 6:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 75 Resp: 1165341

Ion Ratio Lower Upper

75 100

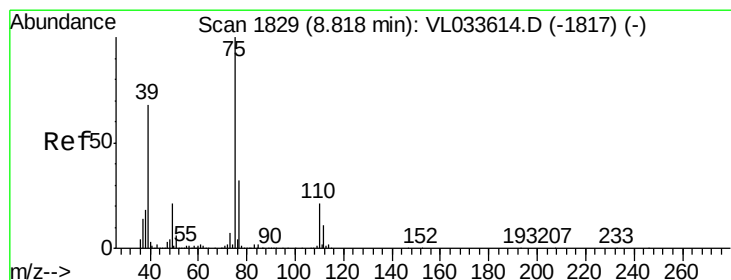
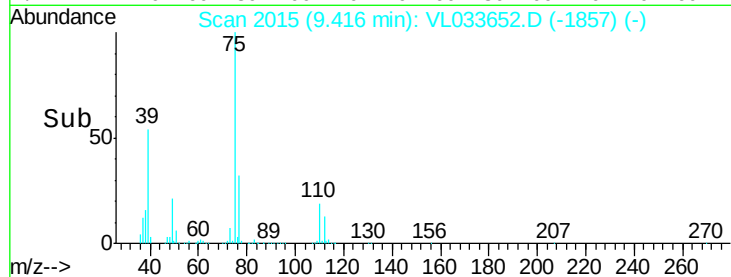
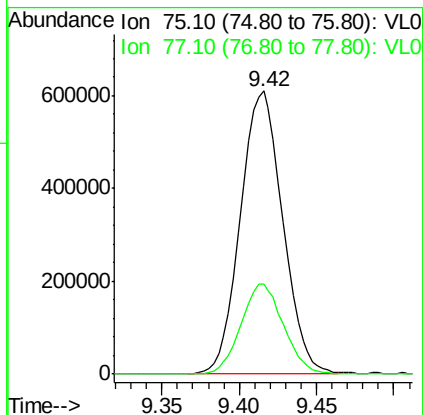
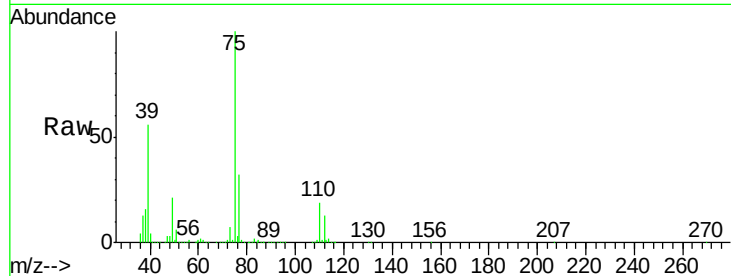
77 31.7 26.0 39.0

Manual Integrations

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#46

cis-1,3-Dichloropropene

Concen: 11.654 ppbv

RT: 8.83 min Scan# 1834

Delta R.T. 0.02 min

Lab File: VL033652.D

Acq: 3 May 2019 6:58

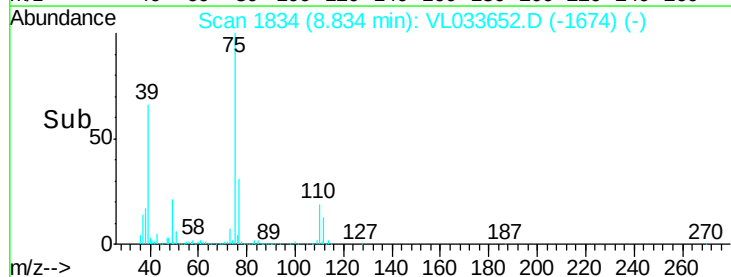
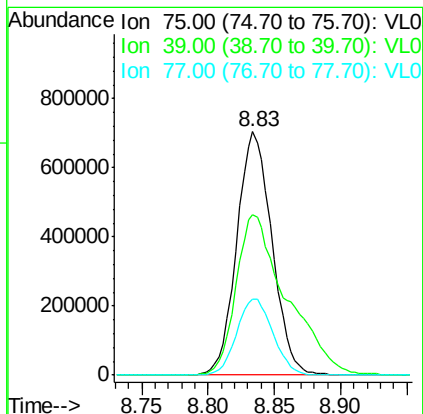
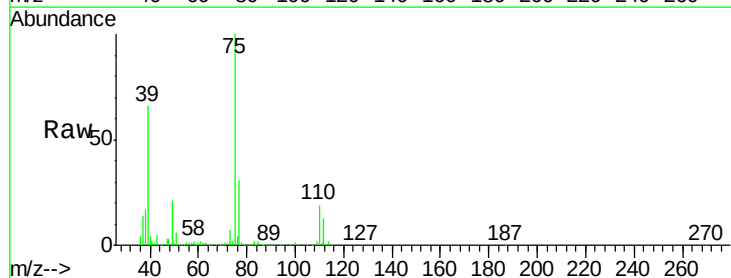
Tgt Ion: 75 Resp: 1300266

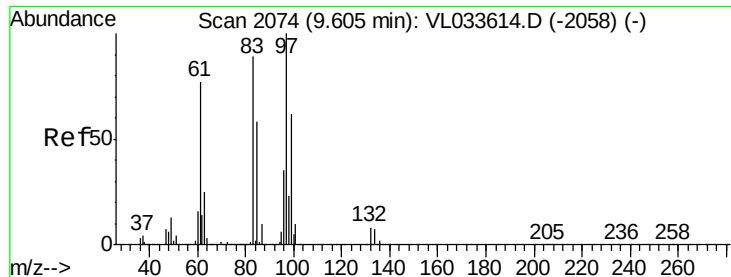
Ion Ratio Lower Upper

75 100

39 65.7 54.6 82.0

77 31.1 25.7 38.5





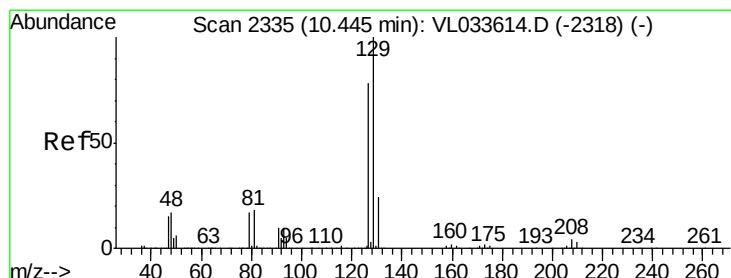
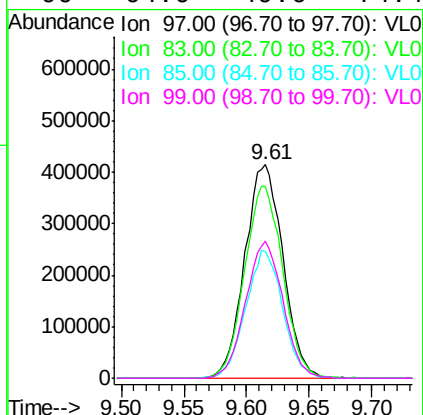
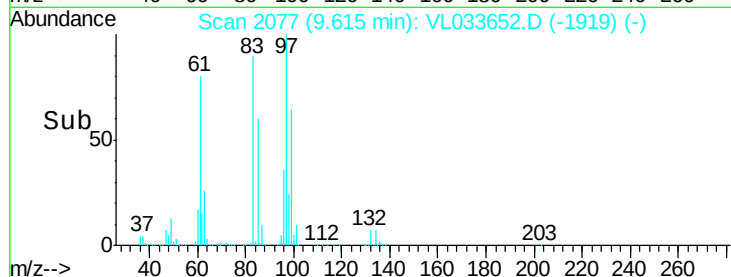
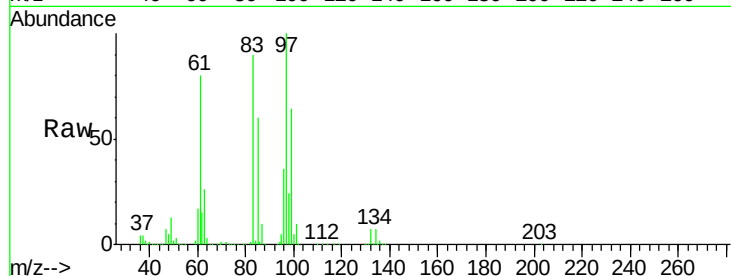
#47
 1,1,2-Trichloroethane
 Concen: 9.083 ppbv
 RT: 9.61 min Scan# 2077
 Delta R.T. 0.01 min
 Lab File: VL033652.D
 Acq: 3 May 2019 6:58

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:	97	Resp:	878589
Ion	Ratio	Lower	Upper
97	100		
83	89.9	71.4	107.0
85	59.5	46.0	69.0
99	64.0	49.6	74.4

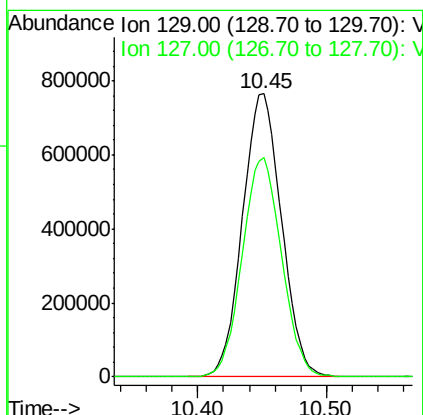
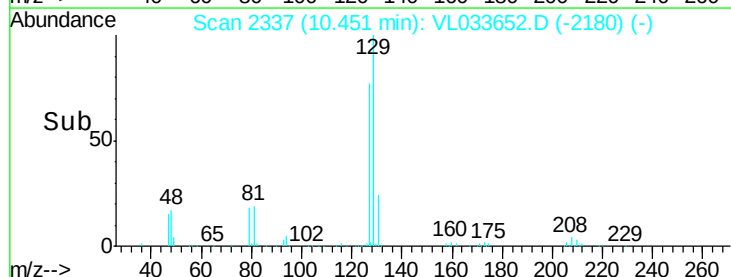
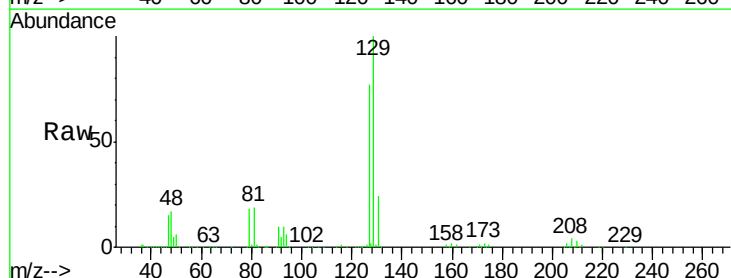
Manual Integrations
 APPROVED

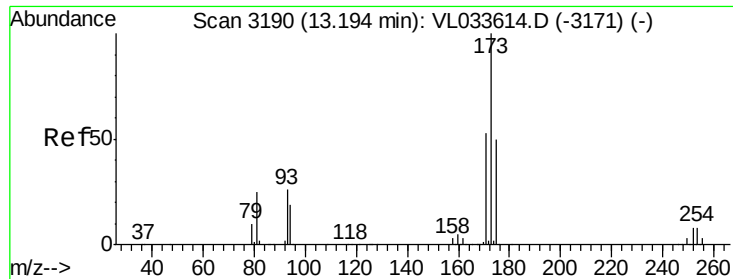
MMDadoda
 5/4/2019 7:20:01 AM



#48
 Dibromochloromethane
 Concen: 9.860 ppbv
 RT: 10.45 min Scan# 2337
 Delta R.T. 0.01 min
 Lab File: VL033652.D
 Acq: 3 May 2019 6:58

Tgt Ion:	129	Resp:	1613026
Ion	Ratio	Lower	Upper
129	100		
127	77.9	39.2	117.6





#49

Bromoform

Concen: 11.413 ppbv

RT: 13.20 min Scan# 3192

Delta R.T. 0.01 min

Lab File: VL033652.D

Acq: 3 May 2019 6:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:173 Resp: 1430345

Ion Ratio Lower Upper

173 100

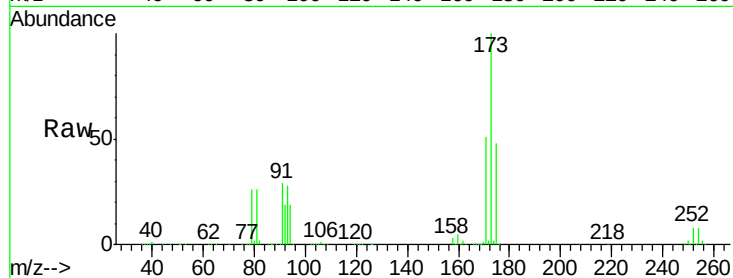
175 48.9 39.0 58.6

171 51.5 41.6 62.4

Manual Integrations
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MMDadoda

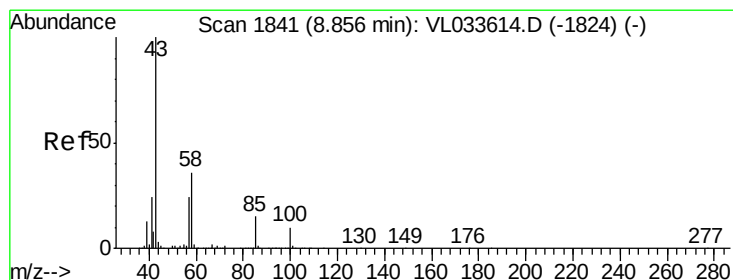
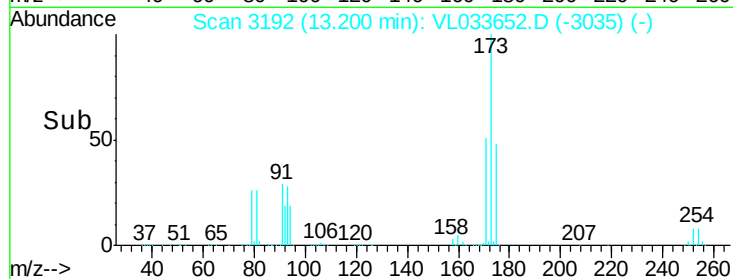
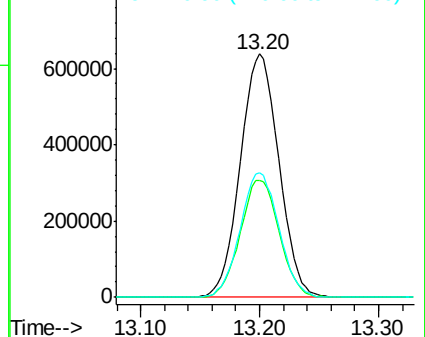
5/4/2019 7:20:01 AM



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: 10.369 ppbv

RT: 8.87 min Scan# 1845

Delta R.T. 0.01 min

Lab File: VL033652.D

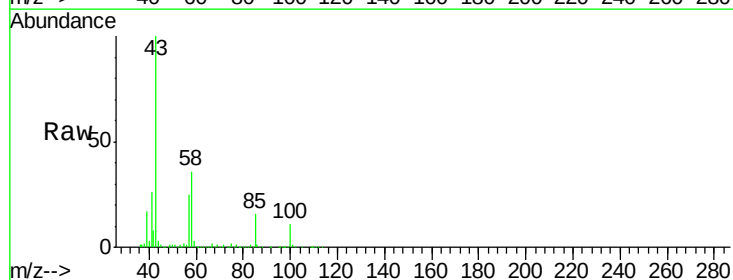
Acq: 3 May 2019 6:58

Tgt Ion: 43 Resp: 2302231

Ion Ratio Lower Upper

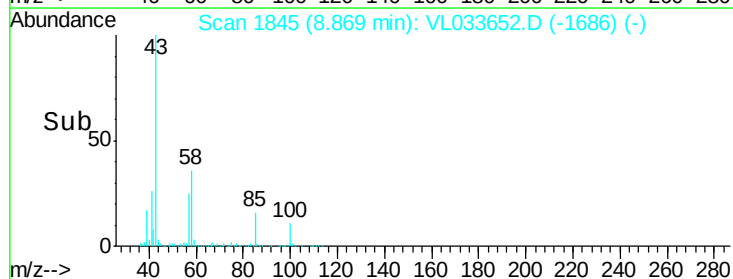
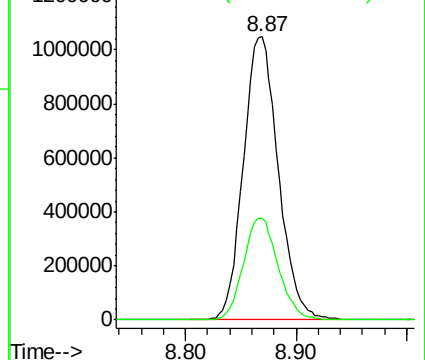
43 100

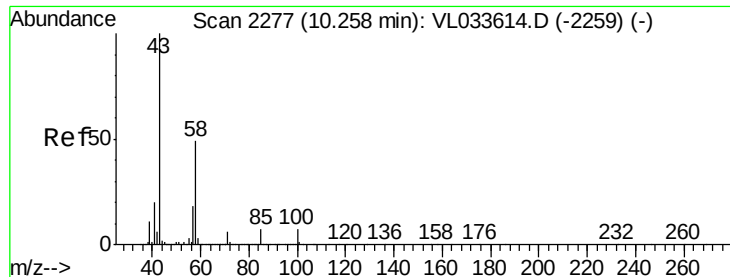
58 35.8 28.6 42.8



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 9.582 ppbv

RT: 10.27 min Scan# 2280

Delta R.T. 0.01 min

Lab File: VL033652.D

Acq: 3 May 2019 6:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 1867880

Ion Ratio Lower Upper

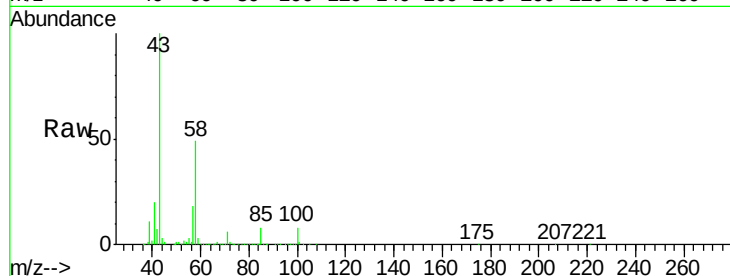
43 100

58 48.0 38.5 57.7

98 0.4 0.3 0.5

Manual Integrations
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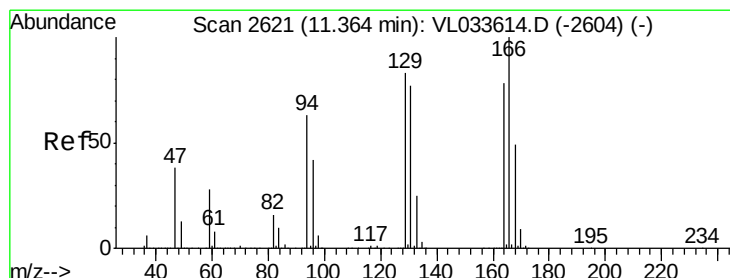
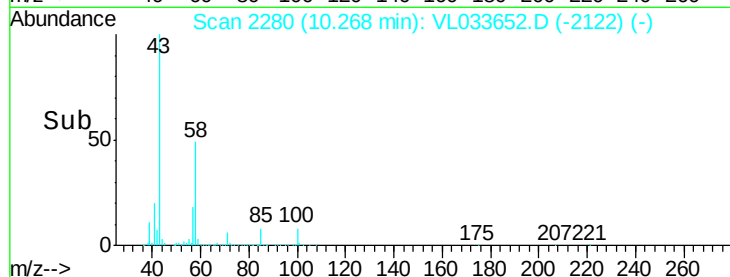
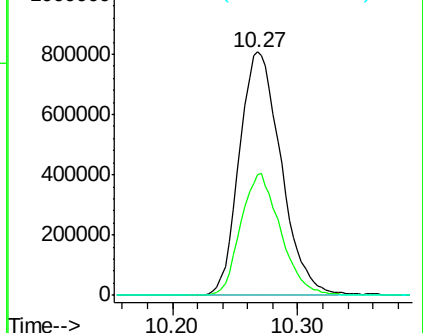
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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 98.20 (97.90 to 98.90): VL0



#52

Tetrachloroethene

Concen: 10.639 ppbv

RT: 11.37 min Scan# 2623

Delta R.T. 0.01 min

Lab File: VL033652.D

Acq: 3 May 2019 6:58

Tgt Ion: 164 Resp: 804474

Ion Ratio Lower Upper

164 100

166 120.6 102.2 153.4

129 101.8 84.4 126.6

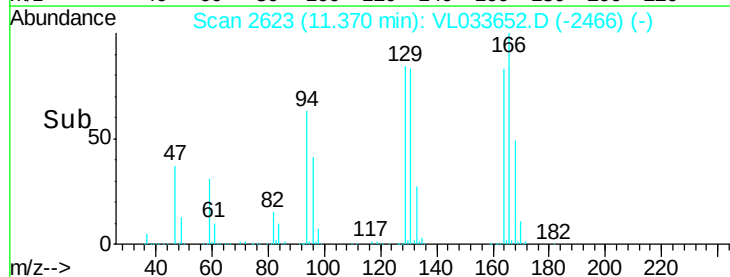
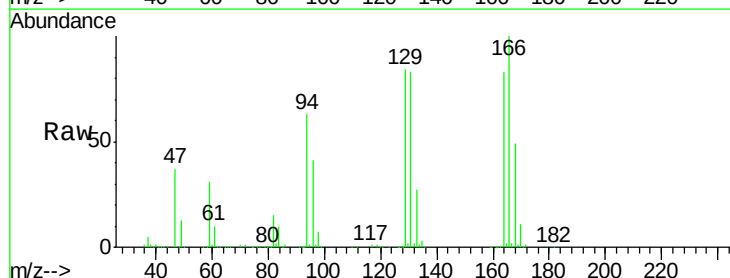
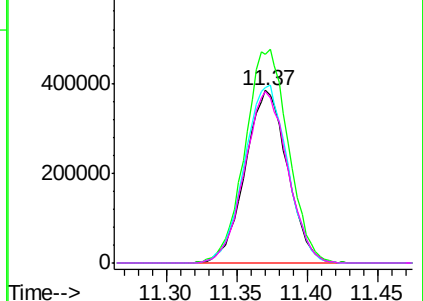
131 99.5 79.2 118.8

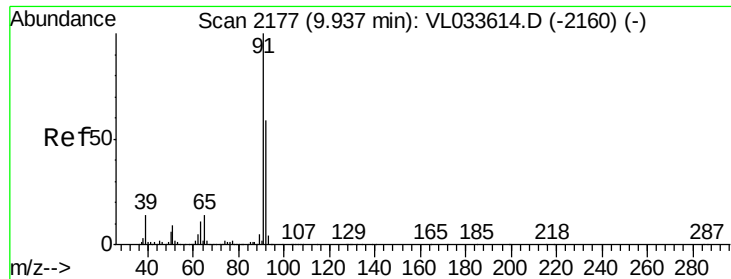
Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V





#53

Toluene

Concen: 9.872 ppbv

RT: 9.95 min Scan# 2180

Delta R.T. 0.01 min

Lab File: VL033652.D

Acq: 3 May 2019 6:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 91 Resp: 2450270

Ion Ratio Lower Upper

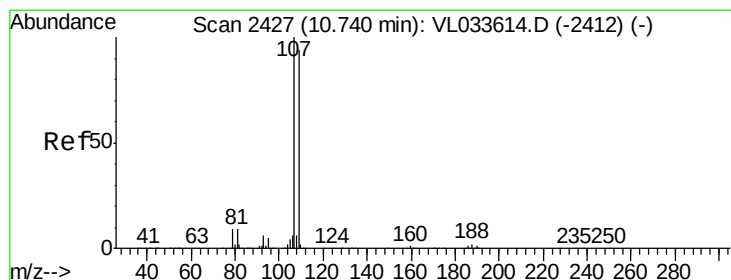
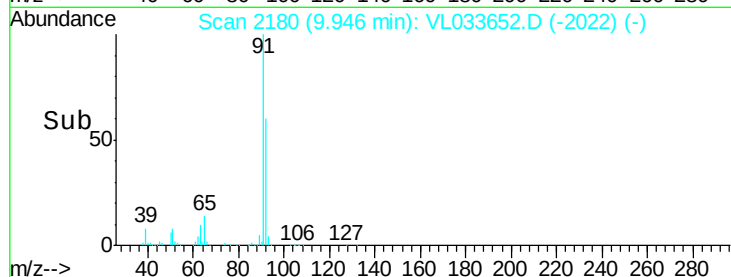
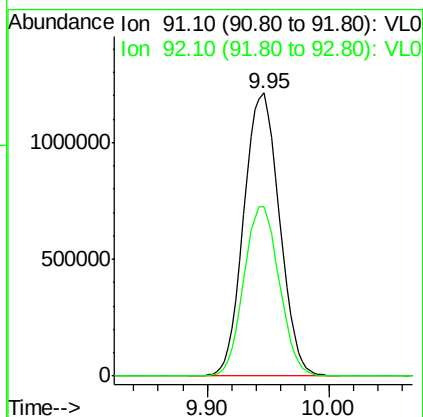
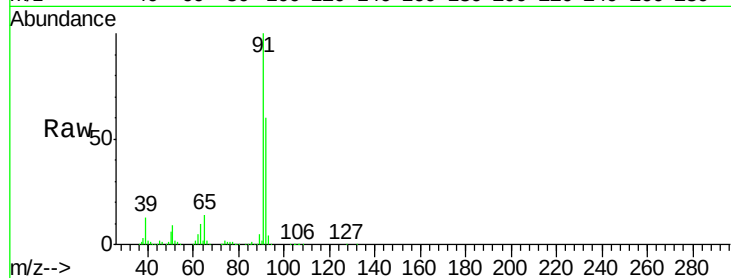
91 100

92 59.7 47.8 71.6

Manual Integrations
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#54

1,2-Dibromoethane

Concen: 10.592 ppbv

RT: 10.76 min Scan# 2432

Delta R.T. 0.02 min

Lab File: VL033652.D

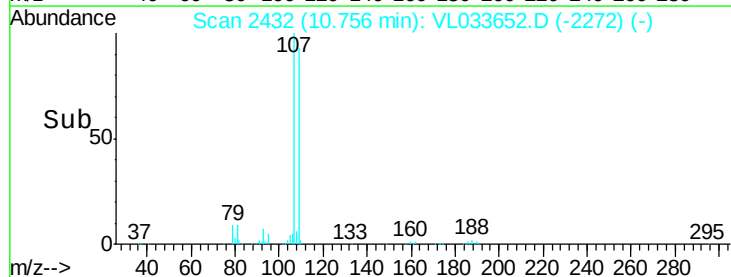
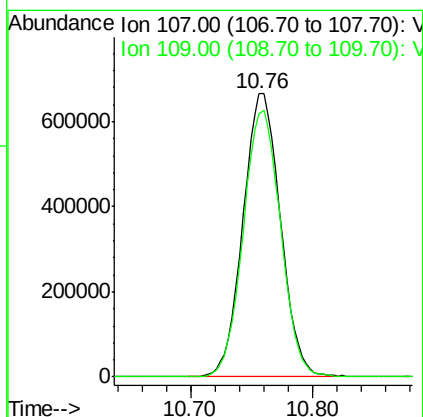
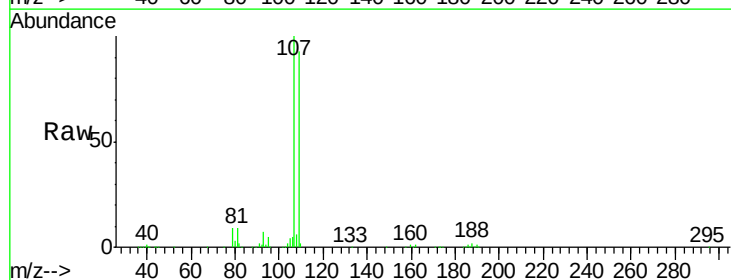
Acq: 3 May 2019 6:58

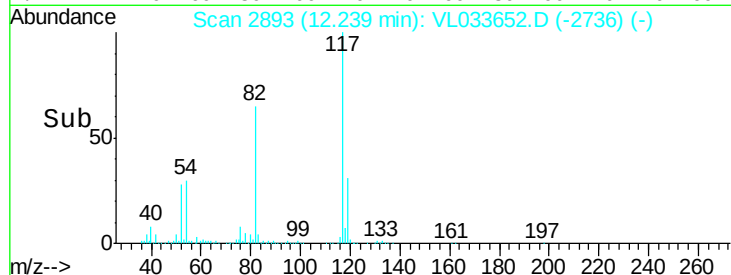
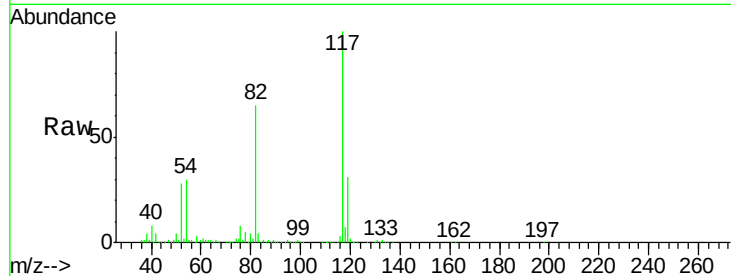
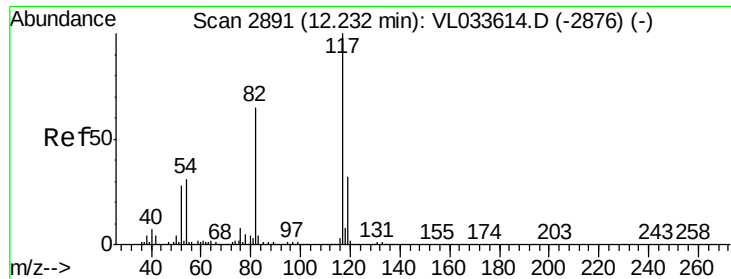
Tgt Ion: 107 Resp: 1409210

Ion Ratio Lower Upper

107 100

109 93.1 75.1 112.7





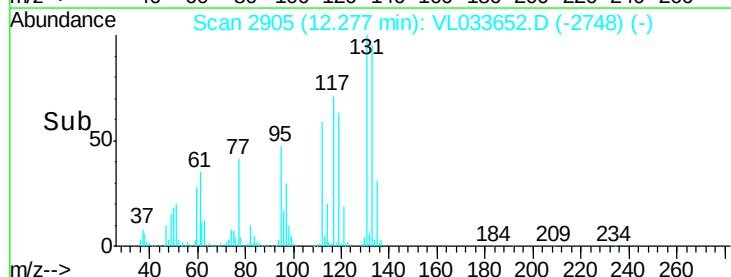
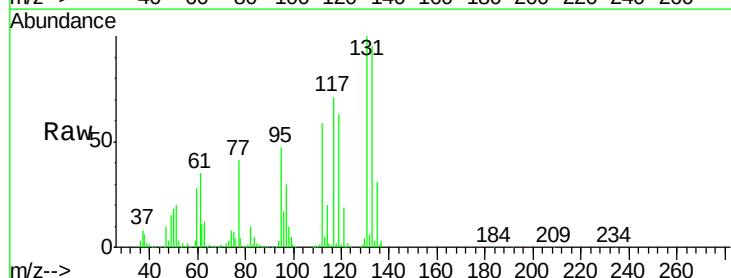
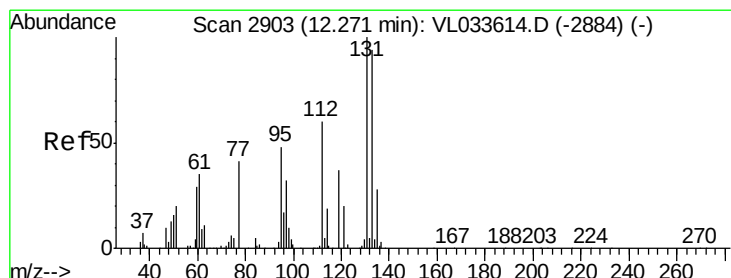
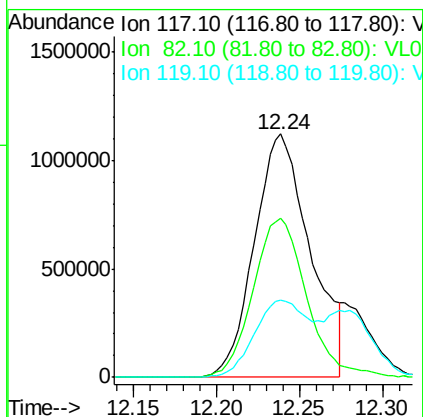
#55
Chlorobenzene-d5
Concen: 10.000 ppbv m
RT: 12.24 min Scan# 2893
Delta R.T. 0.01 min
Lab File: VL033652.D
Acq: 3 May 2019 6:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
117	100		
82	62.6	52.6	78.8
119	29.5	28.3	42.5

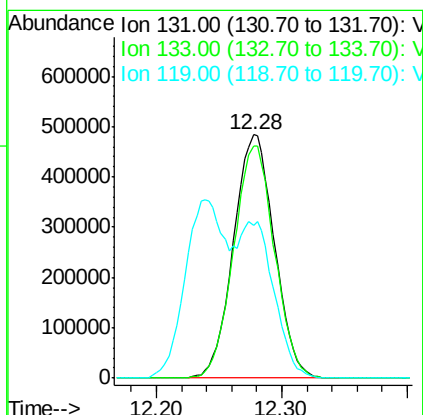
Manual Integrations
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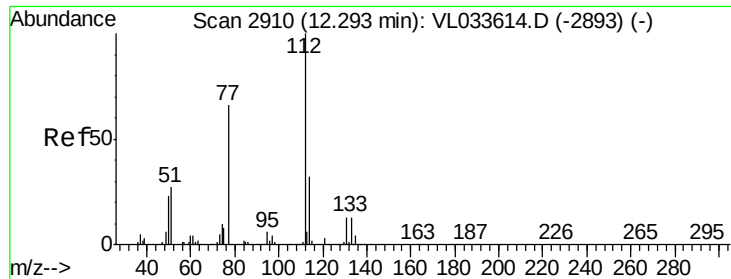
MMDadoda
5/4/2019 7:20:01 AM



#56
1,1,1,2-Tetrachloroethane
Concen: 9.644 ppbv
RT: 12.28 min Scan# 2905
Delta R.T. 0.01 min
Lab File: VL033652.D
Acq: 3 May 2019 6:58

Tgt Ion	Ratio	Lower	Upper
131	100		
133	95.6	76.4	114.6
119	60.6	40.9	61.3





#57

Chlorobenzene

Concen: 9.512 ppbv

RT: 12.30 min Scan# 2912

Delta R.T. 0.01 min

Lab File: VL033652.D

Acq: 3 May 2019 6:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 112 Resp: 1922908

Ion Ratio Lower Upper

112 100

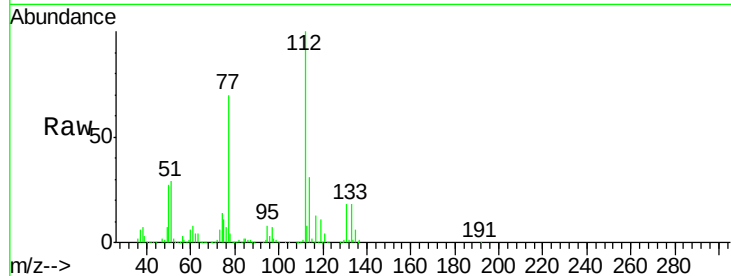
77 69.3 53.6 80.4

114 31.4 29.1 35.5

Manual Integrations
APPROVED

MMDadoda

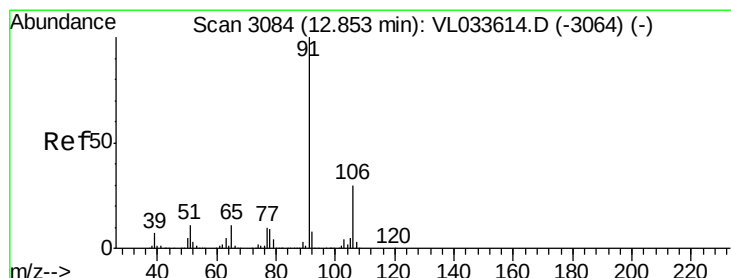
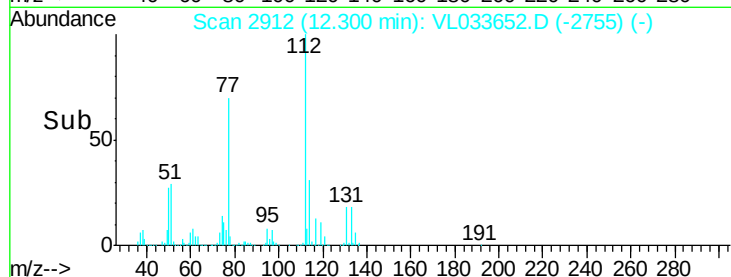
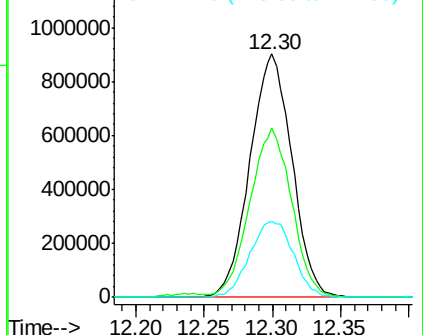
5/4/2019 7:20:01 AM



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: 11.404 ppbv

RT: 12.86 min Scan# 3087

Delta R.T. 0.01 min

Lab File: VL033652.D

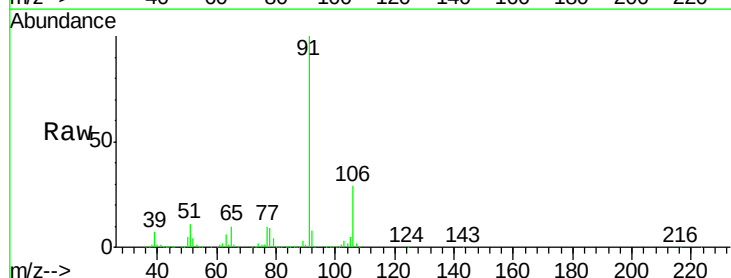
Acq: 3 May 2019 6:58

Tgt Ion: 91 Resp: 3458964

Ion Ratio Lower Upper

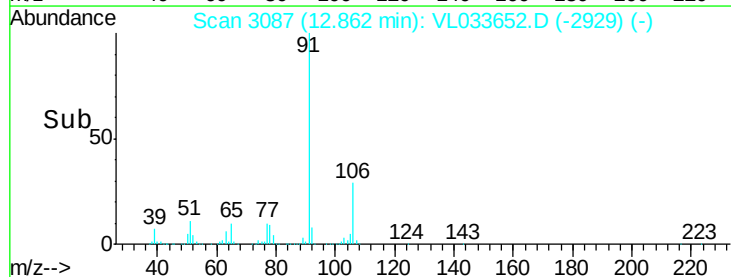
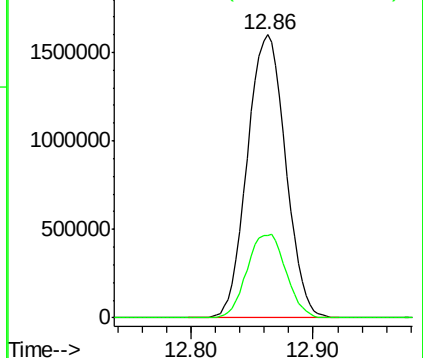
91 100

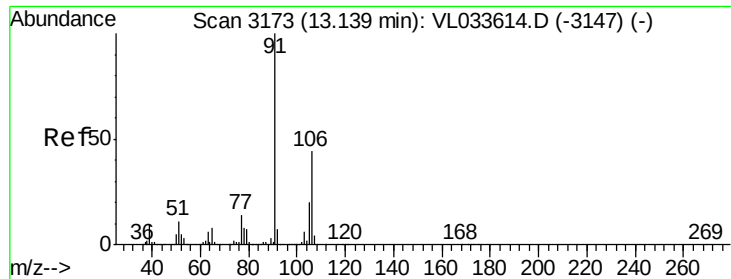
106 29.2 23.6 35.4



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





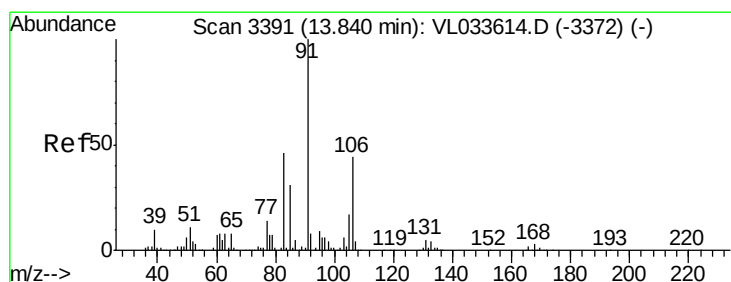
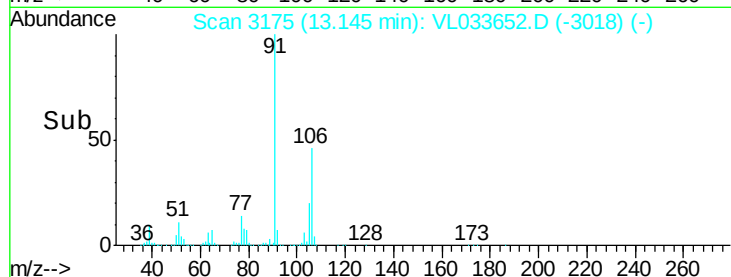
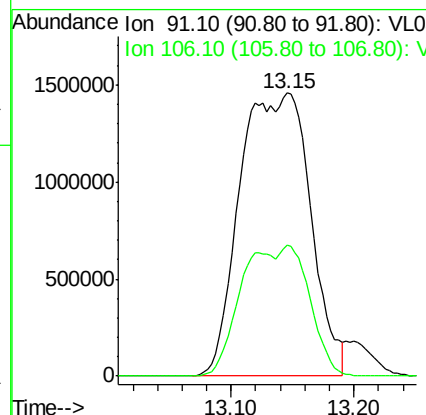
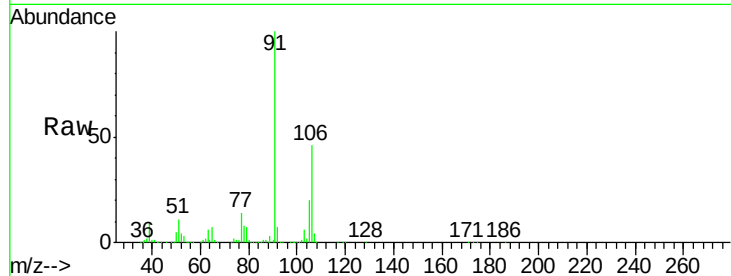
#59
m/p-Xylene
Concen: 22.311 ppbv m
RT: 13.15 min Scan# 3175
Delta R.T. 0.01 min
Lab File: VL033652.D
Acq: 3 May 2019 6:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 91 Resp: 5821922
Ion Ratio Lower Upper
91 100
106 44.4 0.0 0.0#

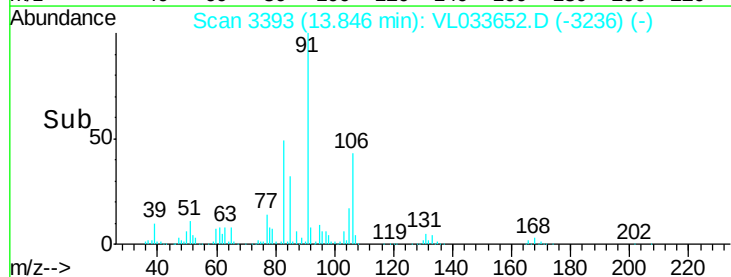
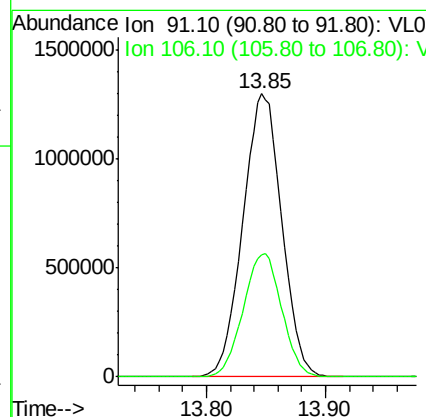
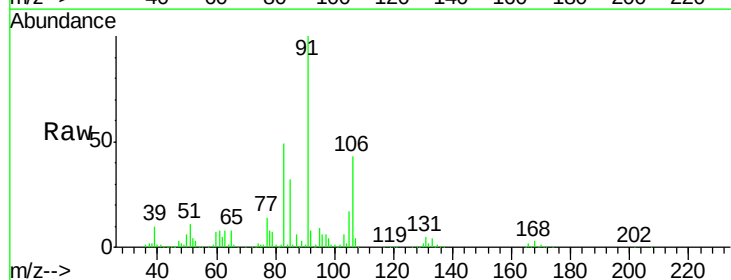
Manual Integrations
APPROVED

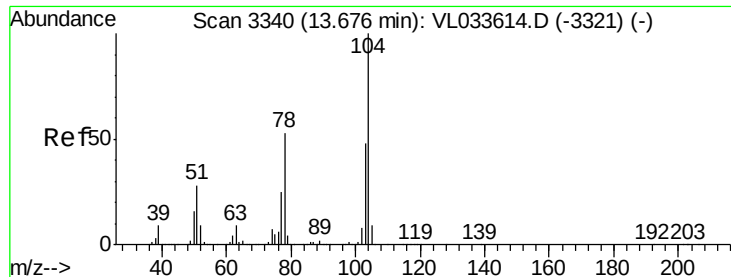
MMDadoda
5/4/2019 7:20:01 AM



#60
o-Xylene
Concen: 11.117 ppbv
RT: 13.85 min Scan# 3393
Delta R.T. 0.01 min
Lab File: VL033652.D
Acq: 3 May 2019 6:58

Tgt Ion: 91 Resp: 2930317
Ion Ratio Lower Upper
91 100
106 43.2 21.8 65.4





#61

Stvrene

Concen: 12.152 ppbv

RT: 13.68 min Scan# 3342

Delta R.T. 0.01 min

Lab File: VL033652.D

Acq: 3 May 2019 6:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:104 Resp: 2189409

Ion Ratio Lower Upper

104 100

78 53.9 42.7 64.1

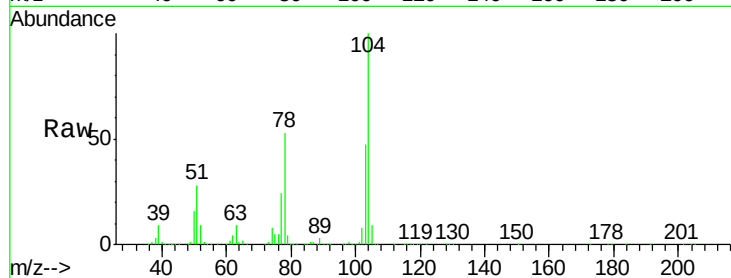
103 47.2 37.8 56.6

Manual Integrations

APPROVED

MMDadoda

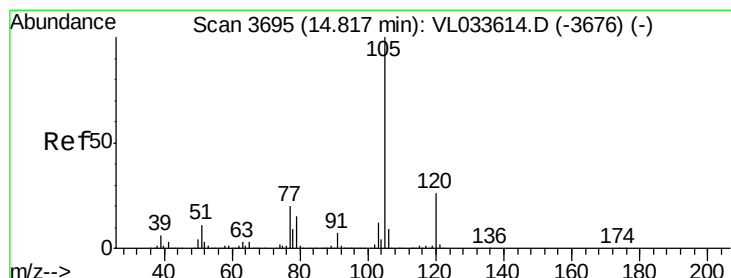
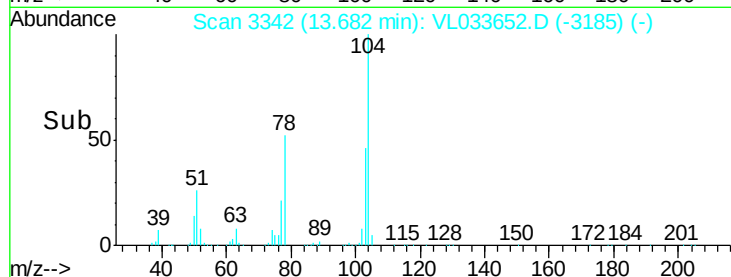
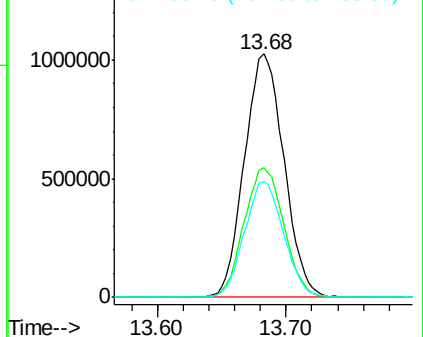
5/4/2019 7:20:01 AM



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 11.082 ppbv

RT: 14.82 min Scan# 3697

Delta R.T. 0.01 min

Lab File: VL033652.D

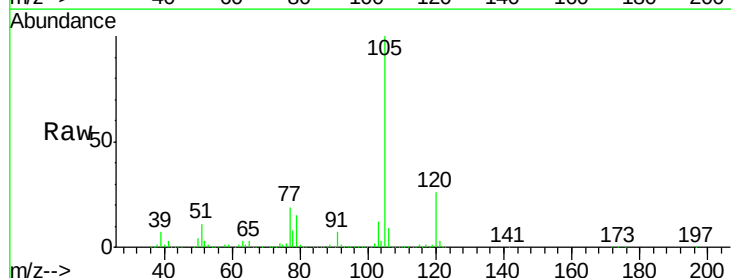
Acq: 3 May 2019 6:58

Tgt Ion:105 Resp: 3903893

Ion Ratio Lower Upper

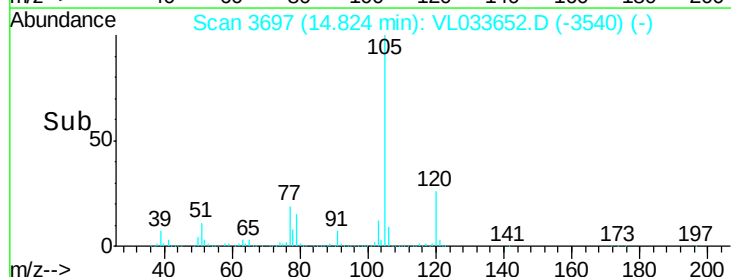
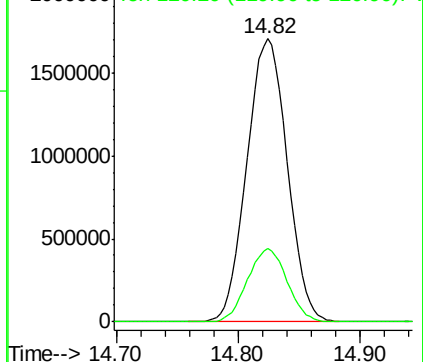
105 100

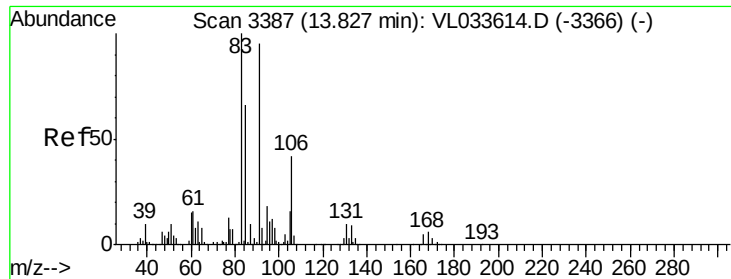
120 25.2 20.3 30.5



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





#63

1,1,2,2-Tetrachloroethane

Concen: 9.508 ppbv

RT: 13.84 min Scan# 3390

Delta R.T. 0.01 min

Lab File: VL033652.D

Acq: 3 May 2019 6:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 83 Resp: 1956509

Ion Ratio Lower Upper

83 100

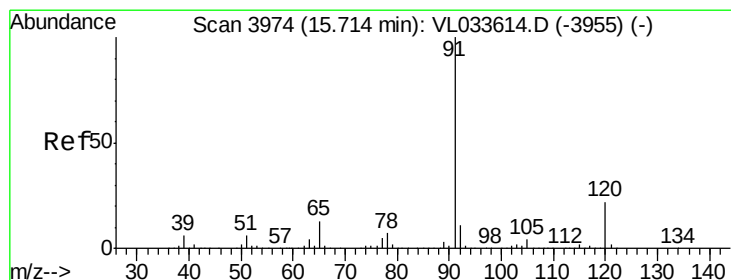
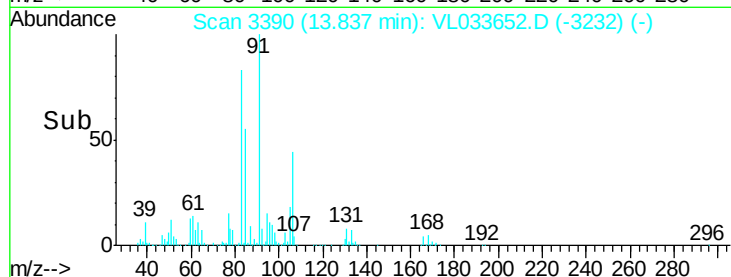
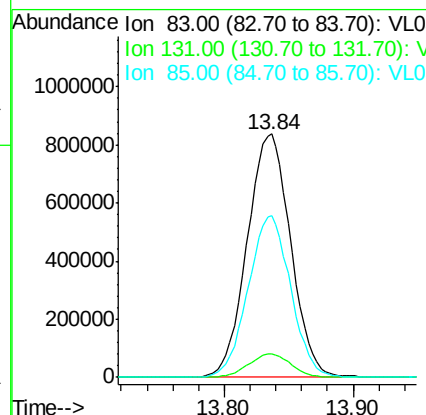
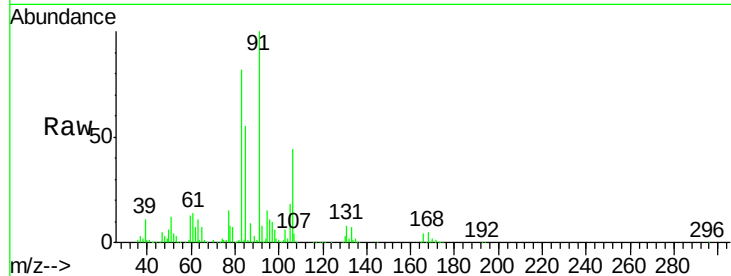
131 9.5 4.8 14.4

85 65.4 32.3 96.8

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#64

n-propylbenzene

Concen: 11.014 ppbv

RT: 15.72 min Scan# 3976

Delta R.T. 0.01 min

Lab File: VL033652.D

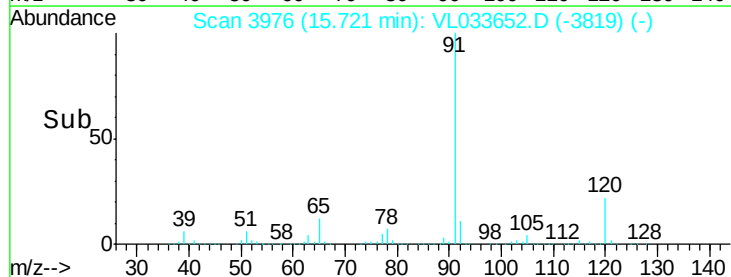
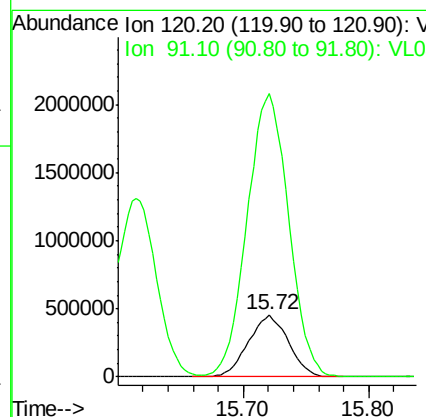
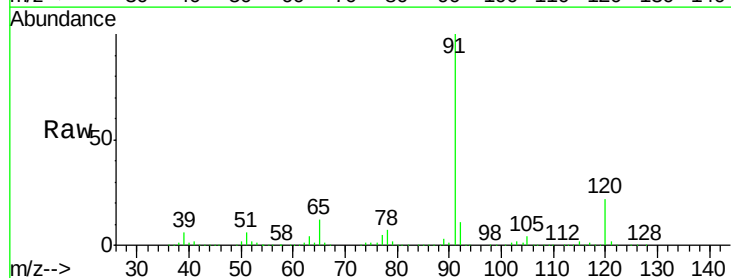
Acq: 3 May 2019 6:58

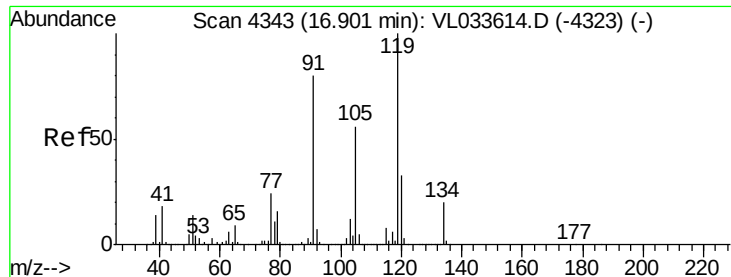
Tgt Ion: 120 Resp: 1006392

Ion Ratio Lower Upper

120 100

91 476.5 380.2 570.2





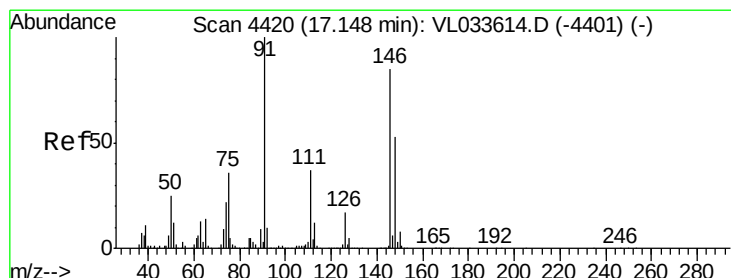
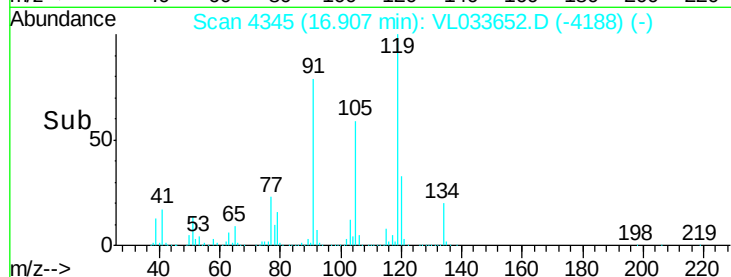
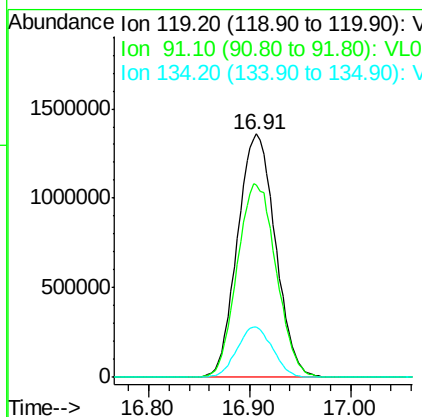
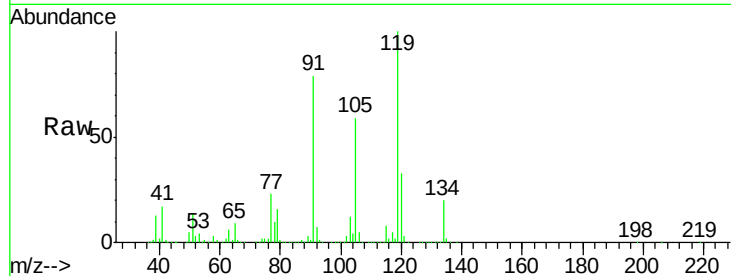
#65
 tert-Butylbenzene
 Concen: 10.720 ppbv
 RT: 16.91 min Scan# 4345
 Delta R.T. 0.01 min
 Lab File: VL033652.D
 Acq: 3 May 2019 6:58

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion: 119 Resp: 3531558
 Ion Ratio Lower Upper
 119 100
 91 82.4 66.1 99.1
 134 19.4 15.6 23.4

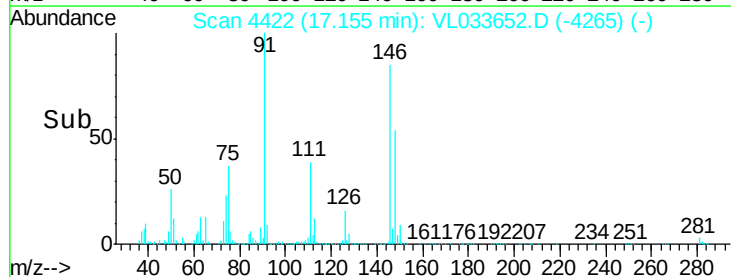
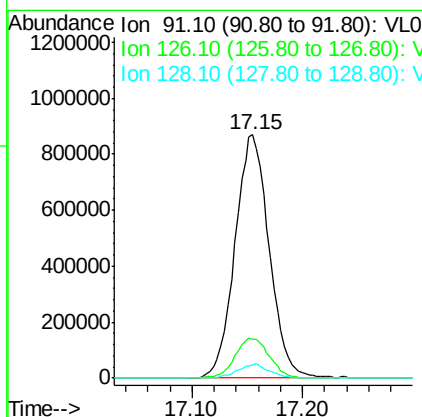
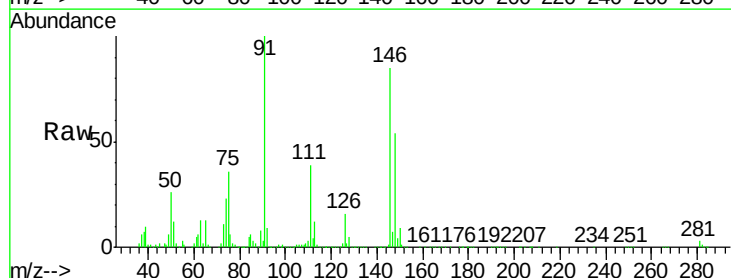
Manual Integrations
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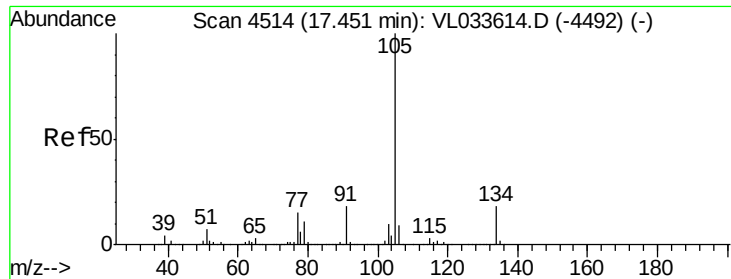
MMDadoda
 5/4/2019 7:20:01 AM



#66
 Benzyl Chloride
 Concen: 12.439 ppbv
 RT: 17.15 min Scan# 4422
 Delta R.T. 0.01 min
 Lab File: VL033652.D
 Acq: 3 May 2019 6:58

Tgt Ion: 91 Resp: 1858252
 Ion Ratio Lower Upper
 91 100
 126 16.6 13.4 20.2
 128 5.4 4.3 6.5





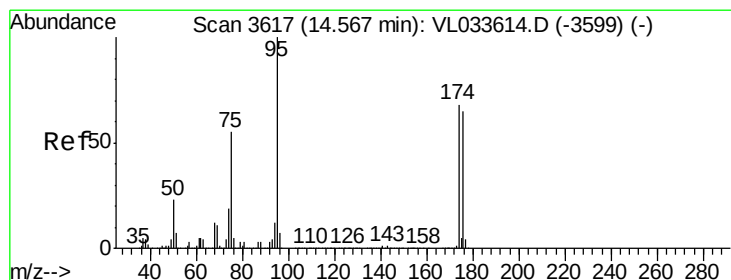
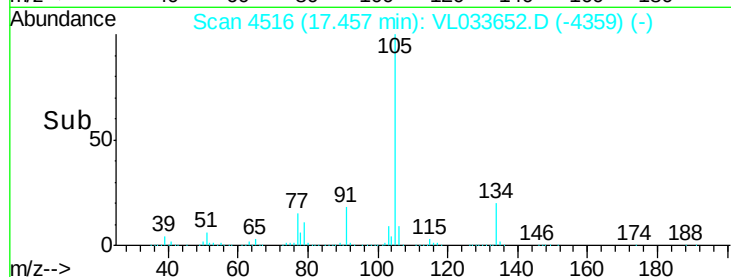
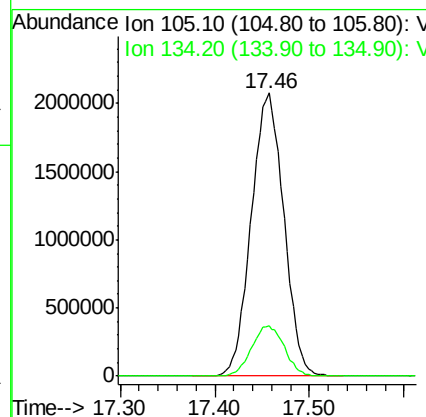
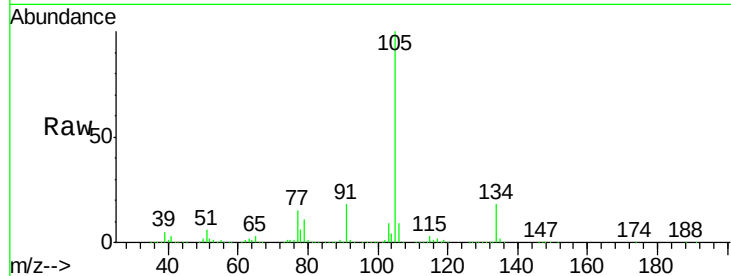
#67
 sec-Butylbenzene
 Concen: 10.704 ppbv
 RT: 17.46 min Scan# 4516
 Delta R.T. 0.01 min
 Lab File: VL033652.D
 Acq: 3 May 2019 6:58

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion: 105 Resp: 4952396
 Ion Ratio Lower Upper
 105 100
 134 18.0 14.6 21.8

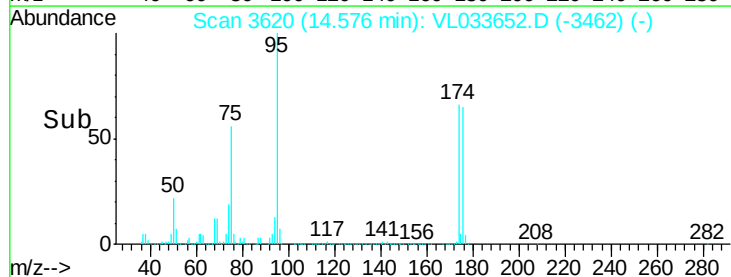
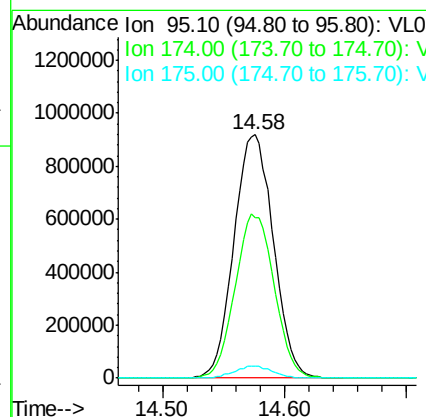
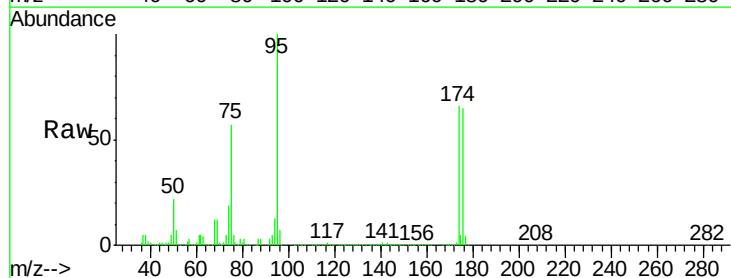
Manual Integrations
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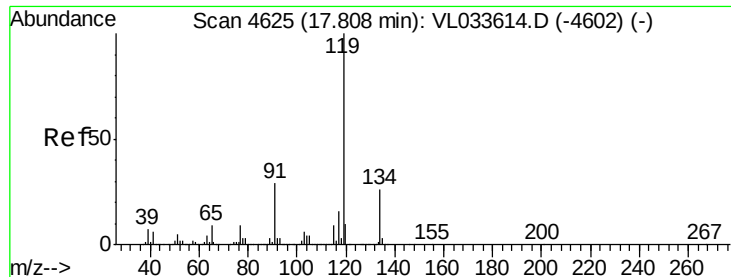
MMDadoda
 5/4/2019 7:20:01 AM



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.291 ppbv
 RT: 14.58 min Scan# 3620
 Delta R.T. 0.01 min
 Lab File: VL033652.D
 Acq: 3 May 2019 6:58

Tgt Ion: 95 Resp: 2063775
 Ion Ratio Lower Upper
 95 100
 174 66.9 53.9 80.9
 175 4.8 4.0 6.0





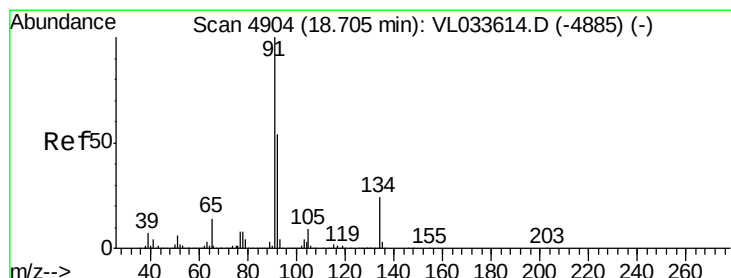
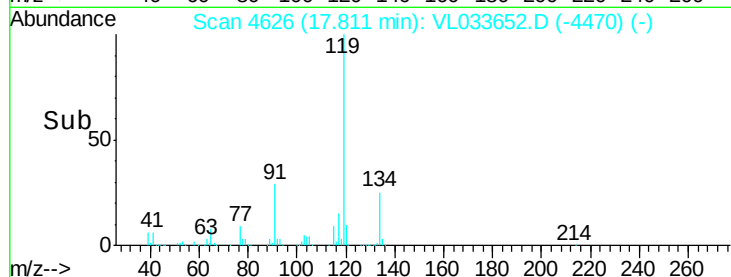
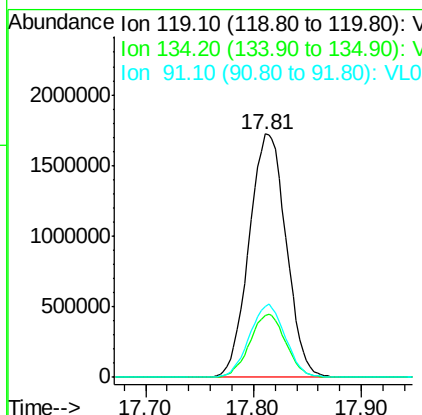
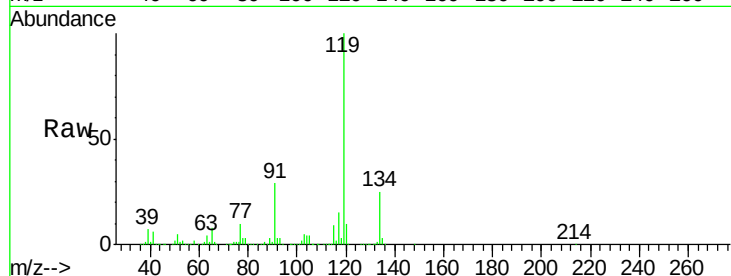
#69
 p-Isopropyltoluene
 Concen: 10.651 ppbv
 RT: 17.81 min Scan# 4626
 Delta R.T. 0.00 min
 Lab File: VL033652.D
 Acq: 3 May 2019 6:58

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.2	20.2	30.2
91	29.2	23.3	34.9

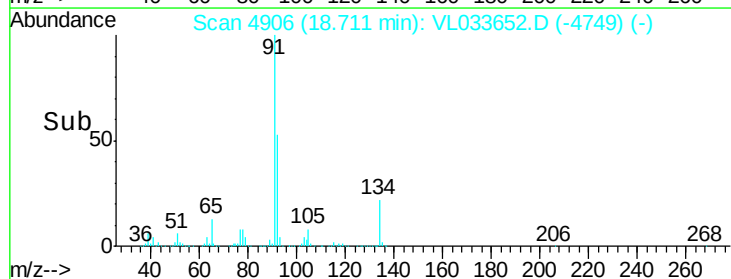
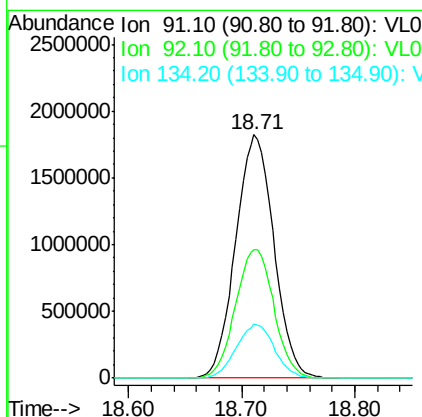
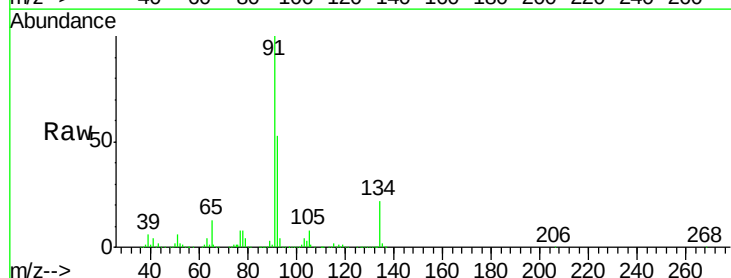
Manual Integrations
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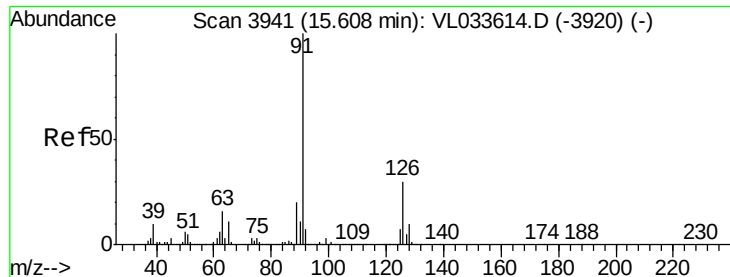
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 5/4/2019 7:20:01 AM



#70
 n-Butylbenzene
 Concen: 10.191 ppbv
 RT: 18.71 min Scan# 4906
 Delta R.T. 0.01 min
 Lab File: VL033652.D
 Acq: 3 May 2019 6:58

Tgt Ion	Ratio	Lower	Upper
91	100		
92	53.3	42.6	64.0
134	22.2	18.0	27.0





#71

2-Chlorotoluene

Concen: 11.193 ppbv

RT: 15.61 min Scan# 3943

Delta R.T. 0.01 min

Lab File: VL033652.D

Acq: 3 May 2019 6:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 91 Resp: 2949023

Ion Ratio Lower Upper

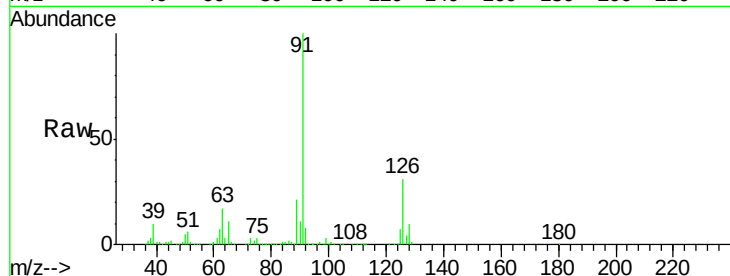
91 100

126 30.0 11.9 47.7

Manual Integrations
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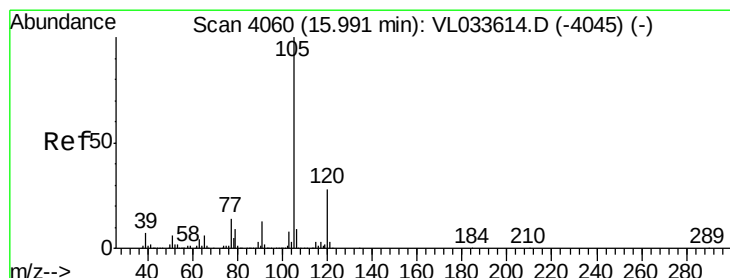
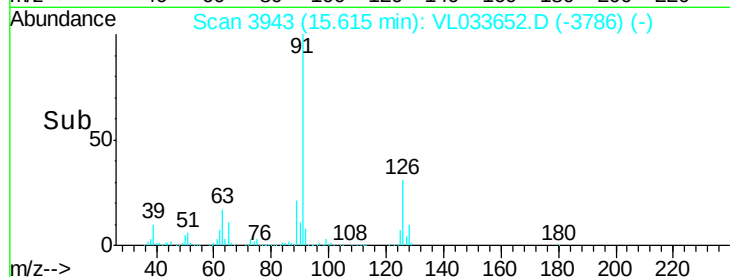
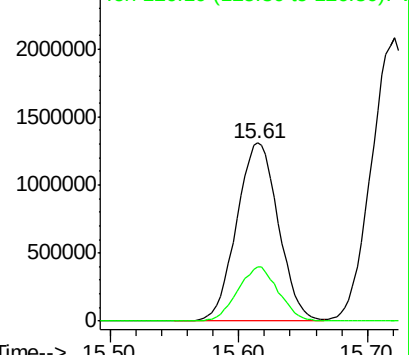
MMDadoda

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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 11.462 ppbv

RT: 16.00 min Scan# 4062

Delta R.T. 0.01 min

Lab File: VL033652.D

Acq: 3 May 2019 6:58

Tgt Ion:105 Resp: 3441332

Ion Ratio Lower Upper

105 100

120 28.8 23.2 34.8

91 13.8 10.3 15.5

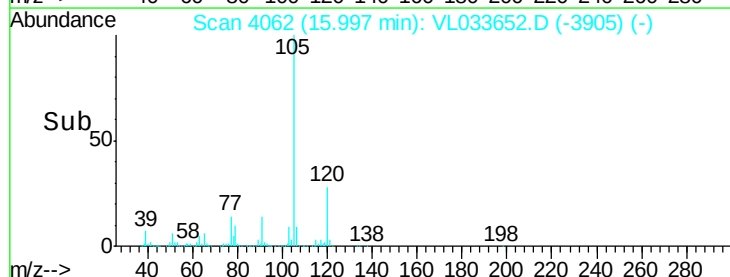
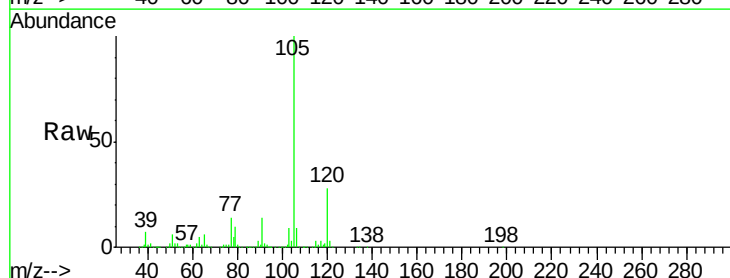
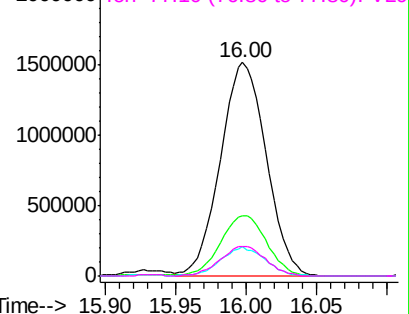
77 13.9 11.0 16.6

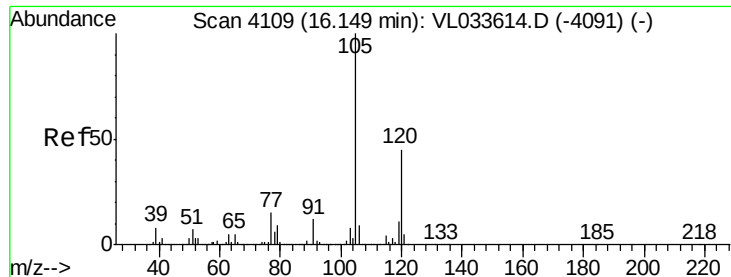
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#73

1,3,5-Trimethylbenzene

Concen: 11.064 ppbv

RT: 16.15 min Scan# 4111

Delta R.T. 0.01 min

Lab File: VL033652.D

Acq: 3 May 2019 6:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:105 Resp: 3266683

Ion Ratio Lower Upper

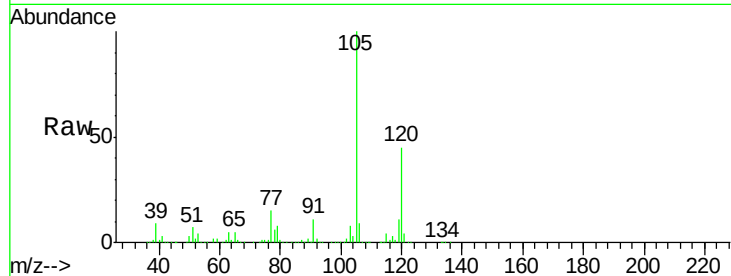
105 100

120 44.9 36.2 54.2

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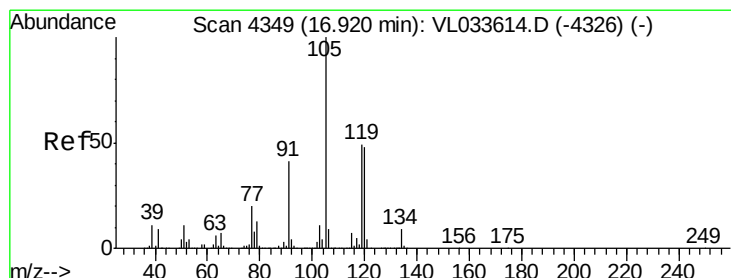
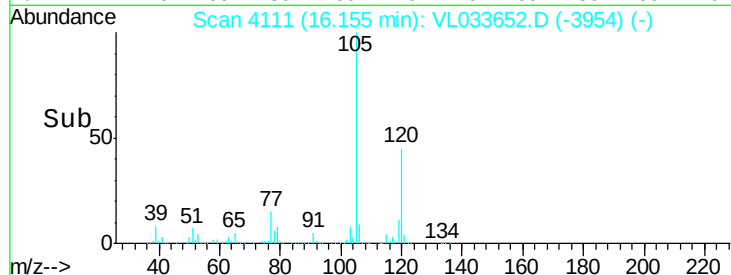
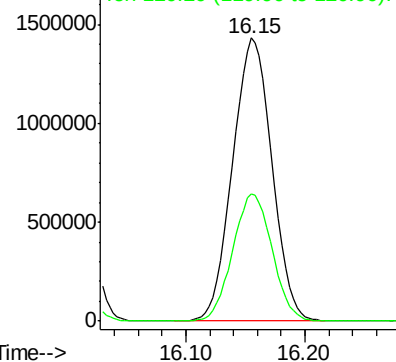
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 10.351 ppbv

RT: 16.93 min Scan# 4351

Delta R.T. 0.01 min

Lab File: VL033652.D

Acq: 3 May 2019 6:58

Tgt Ion:105 Resp: 3408597

Ion Ratio Lower Upper

105 100

120 46.9 38.4 57.6

91 39.8 33.0 49.4

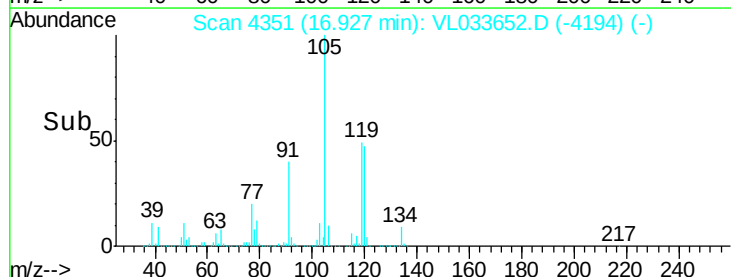
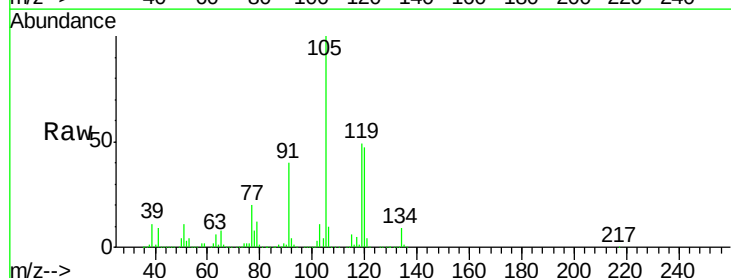
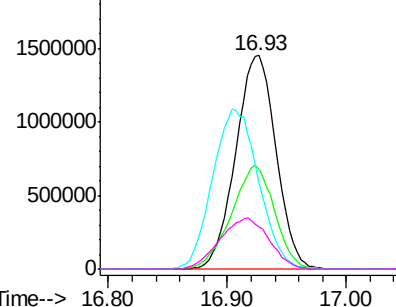
77 19.7 16.2 24.2

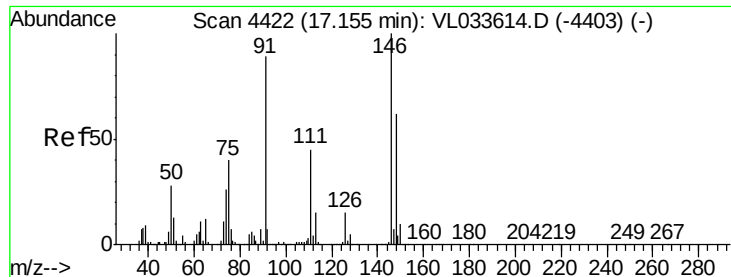
Abundance Ion 105.10 (104.80 to 105.80): V

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





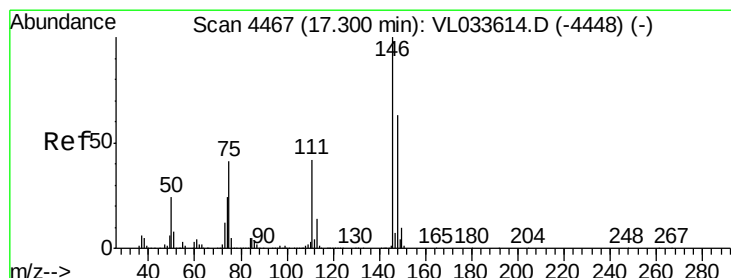
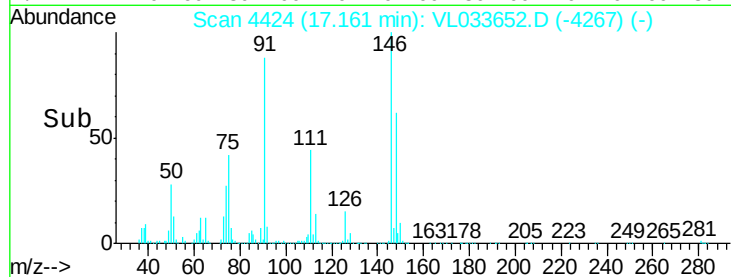
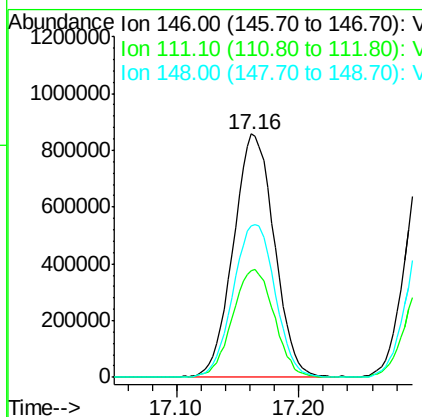
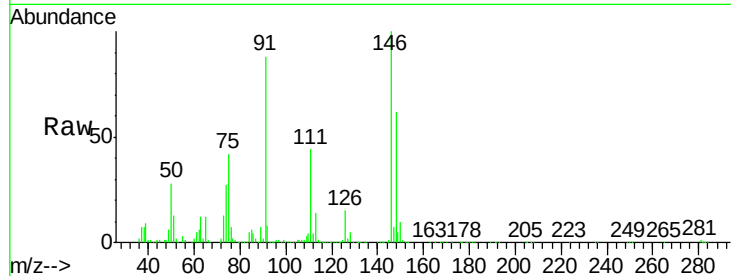
#75
 1,3-Dichlorobenzene
 Concen: 9.632 ppbv
 RT: 17.16 min Scan# 4424
 Delta R.T. 0.01 min
 Lab File: VL033652.D
 Acq: 3 May 2019 6:58

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
146	100		
111	45.7	22.4	67.2
148	65.1	32.0	96.0

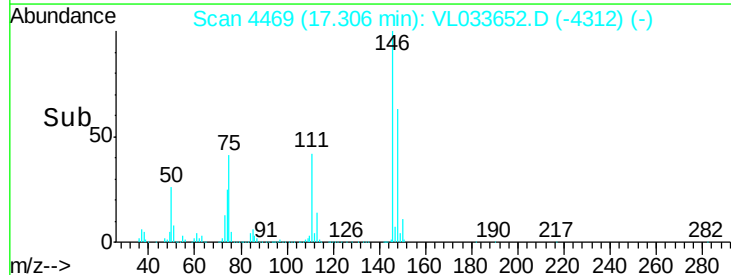
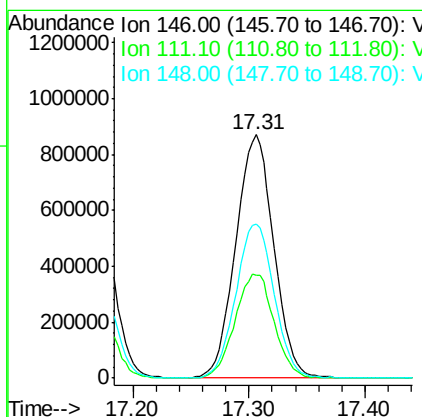
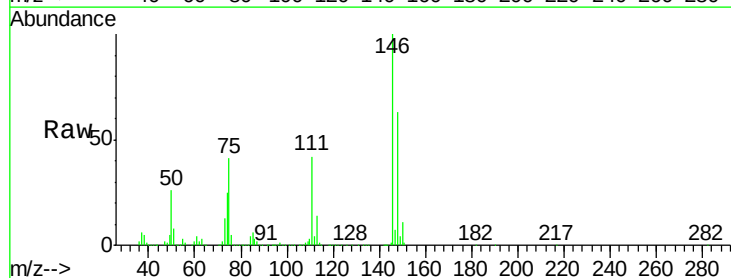
Manual Integrations
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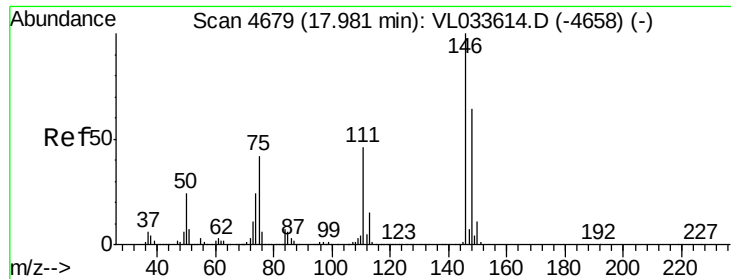
MMDadoda
 5/4/2019 7:20:01 AM



#76
 1,4-Dichlorobenzene
 Concen: 10.051 ppbv
 RT: 17.31 min Scan# 4469
 Delta R.T. 0.01 min
 Lab File: VL033652.D
 Acq: 3 May 2019 6:58

Tgt Ion	Ratio	Lower	Upper
146	100		
111	44.4	21.6	65.0
148	64.6	32.3	96.9





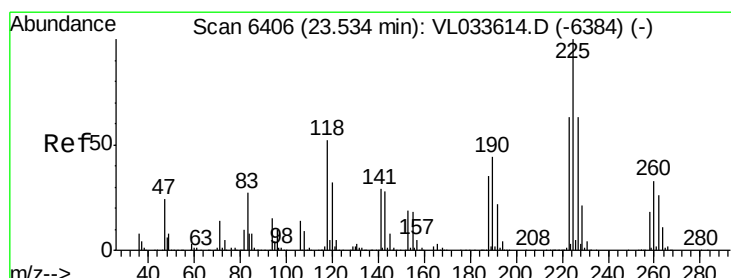
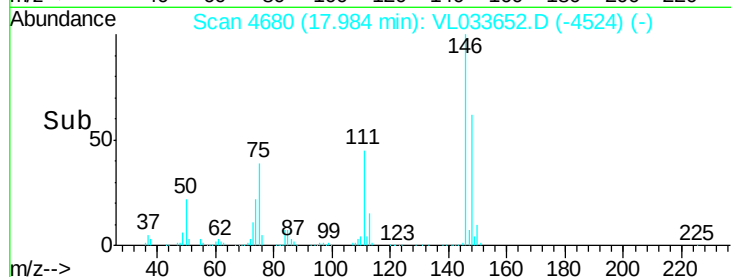
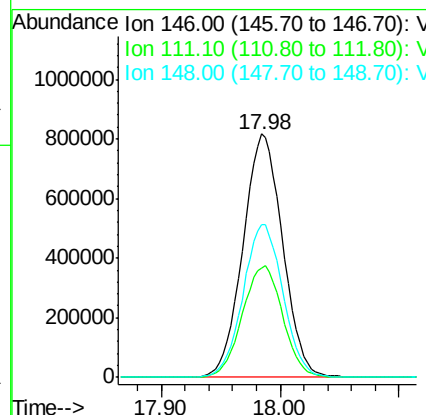
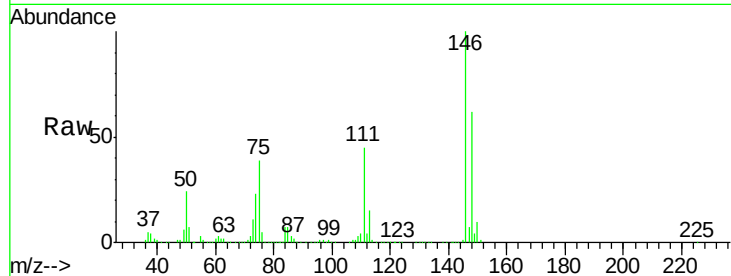
#77
 1,2-Dichlorobenzene
 Concen: 9.846 ppbv
 RT: 17.98 min Scan# 4680
 Delta R.T. 0.00 min
 Lab File: VL033652.D
 Acq: 3 May 2019 6:58

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:146 Resp: 1877787
 Ion Ratio Lower Upper
 146 100
 111 46.9 23.3 69.9
 148 63.6 32.2 96.6

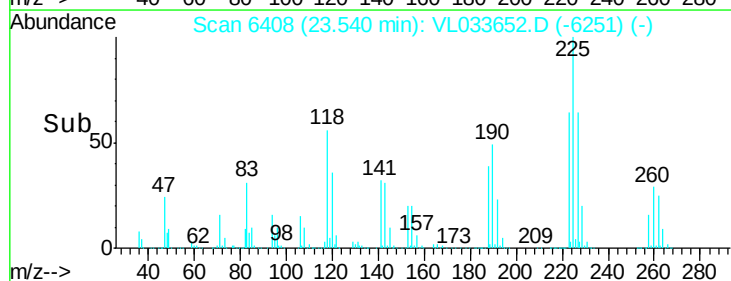
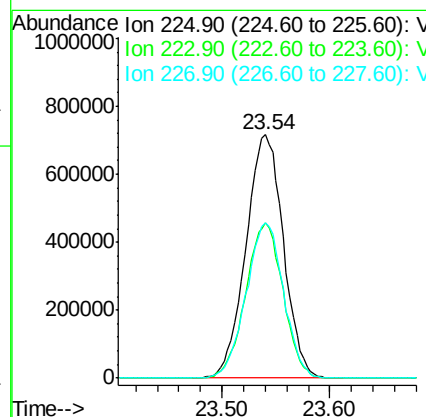
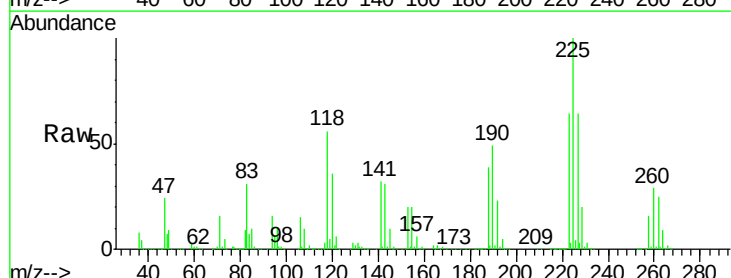
Manual Integrations
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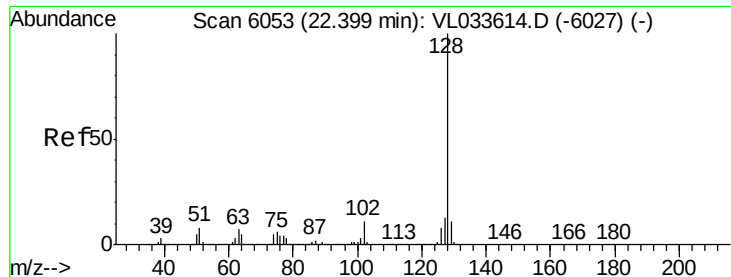
MMDadoda
 5/4/2019 7:20:01 AM



#78
 Hexachloro-1,3-Butadiene
 Concen: 11.863 ppbv
 RT: 23.54 min Scan# 6408
 Delta R.T. 0.01 min
 Lab File: VL033652.D
 Acq: 3 May 2019 6:58

Tgt Ion:225 Resp: 1729834
 Ion Ratio Lower Upper
 225 100
 223 63.4 50.4 75.6
 227 63.7 50.7 76.1





#79

Naphthalene

Concen: 12.646 ppbv

RT: 22.41 min Scan# 6056

Delta R.T. 0.01 min

Lab File: VL033652.D

Acq: 3 May 2019 6:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:128 Resp: 3840685

Ion Ratio Lower Upper

128 100

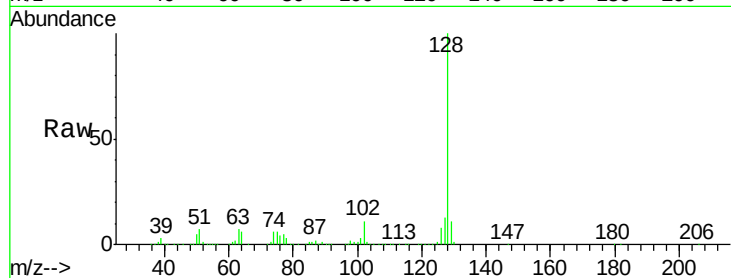
127 12.5 10.6 16.0

129 10.8 8.6 13.0

Manual Integrations
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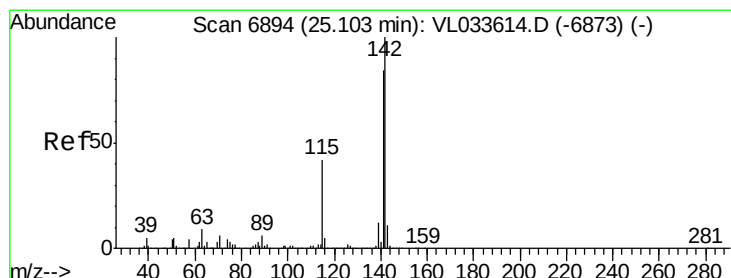
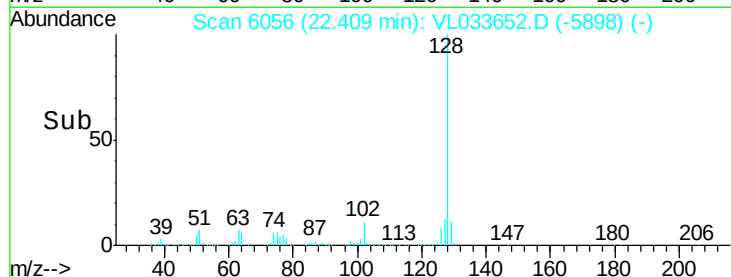
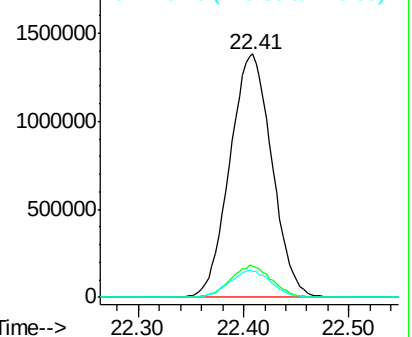
5/4/2019 7:20:01 AM



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: 12.874 ppbv

RT: 25.11 min Scan# 6896

Delta R.T. 0.01 min

Lab File: VL033652.D

Acq: 3 May 2019 6:58

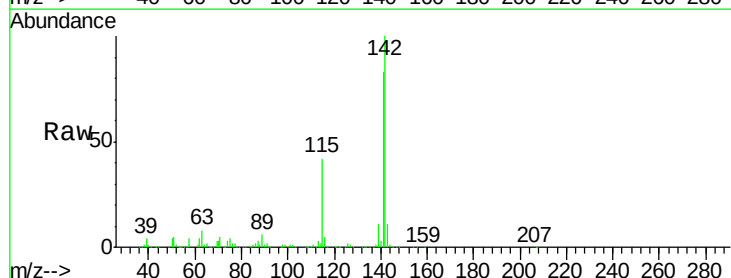
Tgt Ion:142 Resp: 1695013

Ion Ratio Lower Upper

142 100

141 84.2 67.3 100.9

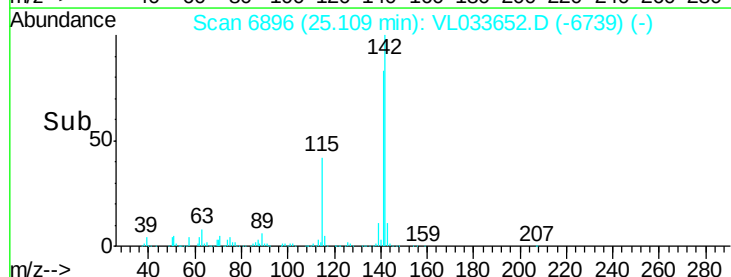
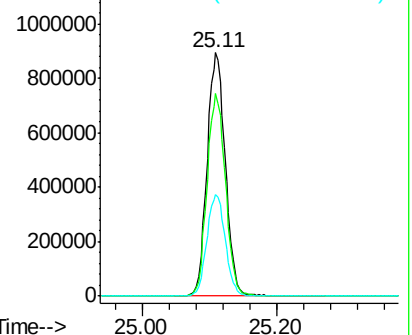
115 42.2 33.8 50.8

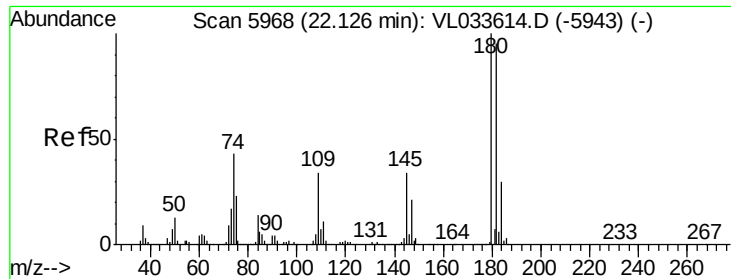


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V





#81
 1,2,4-Trichlorobenzene
 Concen: 11.134 ppbv
 RT: 22.13 min Scan# 5970
 Delta R.T. 0.01 min
 Lab File: VL033652.D
 Acq: 3 May 2019 6:58

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.2	76.2	114.2
184	30.7	24.5	36.7

Manual Integrations
 APPROVED

MMDadoda
 5/4/2019 7:20:01 AM

