

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL041019\
 Data File : VL033585.D
 Acq On : 11 Apr 2019 4:54
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 4/11/2019 1:02:31 PM

Quant Time: Apr 11 10:06:12 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Mar 2
 QLast Update : Tue Mar 26 16:00:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	815882	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1987077	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2122617m	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.58	95	1655527	9.95	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	946062	7.951	ppbv	98
3) Chlorodifluoromethane	3.01	51	796131	8.476	ppbv	100
4) Chloromethane	3.17	50	424271	8.536	ppbv	97
5) Vinyl Chloride	3.29	62	422301	8.647	ppbv	99
6) Bromomethane	3.51	94	275794	8.788	ppbv	94
7) Chloroethane	3.60	64	159992	8.803	ppbv	94
8) Dichlorotetrafluoroethane	3.22	85	1100196	8.677	ppbv	100
9) Propene	3.04	41	330243	8.372	ppbv	97
10) Heptane	8.25	43	914364	8.672	ppbv	99
11) Trichlorofluoromethane	4.00	101	1294705	8.828	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.55	101	863238	8.764	ppbv	99
13) Ethanol	3.65	45	97225	9.525	ppbv	67
14) Bromoethene	3.79	108	344097	8.759	ppbv	99
15) Acetone	3.90	43	797782	8.132	ppbv	100
16) 1,3-Butadiene	3.36	39	358497	9.213	ppbv	90
17) tert-Butyl alcohol	4.36	59	156173	8.658	ppbv	100
18) 1,1-Dichloroethene	4.35	96	383069	9.054	ppbv	99
19) Isopropyl Alcohol	4.02	45	572082	9.220	ppbv	# 97
20) Methylene Chloride	4.41	84	324421	7.791	ppbv	95
21) Allyl Chloride	4.48	41	558432	9.005	ppbv	100
22) trans-1,2-Dichloroethene	4.96	96	385574	8.735	ppbv	96
23) Vinyl Acetate	5.16	43	1204424	8.626	ppbv	99
24) 1,1-Dichloroethane	5.09	63	864759	8.153	ppbv	99
25) Ethyl Acetate	5.77	43	1511338	8.303	ppbv	99
26) Hexane	5.78	57	672992	8.316	ppbv	98
27) Carbon Disulfide	4.62	76	935043	9.716	ppbv	99
28) Methyl tert-Butyl Ether	5.11	73	953542	8.180	ppbv	100
29) Chloroform	5.85	83	1172847	8.454	ppbv	97
30) Cyclohexane	7.25	84	581641	9.085	ppbv	99
31) cis-1,2-Dichloroethene	5.64	61	695970	8.650	ppbv	99
32) 1,1,1-Trichloroethane	6.62	97	1145028	8.668	ppbv	99
34) 2-Butanone	5.33	43	964394	8.078	ppbv	99
35) Carbon Tetrachloride	7.14	117	1281323	9.104	ppbv	100
36) Benzene	7.01	78	1403023	8.415	ppbv	98
37) 1,2-Dichloroethane	6.41	62	891022	7.973	ppbv	99
38) Trichloroethene	7.96	130	587056	9.356	ppbv	98
39) 1,2-Dichloropropane	7.74	63	526453	8.060	ppbv	96
40) 1,4-Dioxane	7.96	88	187005	8.028	ppbv	84
41) Tetrahydrofuran	6.15	42	551016	8.391	ppbv	98
42) Bromodichloromethane	7.92	83	1312174	8.621	ppbv	99
43) Methyl Methacrylate	8.14	69	590395	8.721	ppbv	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	2446255	8.396	ppbv	100
45) t-1,3-Dichloropropene	9.42	75	811063	9.758	ppbv	98
46) cis-1,3-Dichloropropene	8.84	75	908529	9.360	ppbv	97
47) 1,1,2-Trichloroethane	9.62	97	622689	8.396	ppbv	98
48) Dibromochloromethane	10.45	129	1144083	9.146	ppbv	99
49) Bromoform	13.20	173	1058554	8.858	ppbv	99
50) 4-Methyl-2-Pentanone	8.87	43	1519894	8.694	ppbv	100
51) 2-Hexanone	10.27	43	1176775	9.024	ppbv #	98
52) Tetrachloroethene	11.37	164	565365	8.987	ppbv	97
53) Toluene	9.95	91	1711809	8.835	ppbv	100
54) 1,2-Dibromoethane	10.76	107	992808	8.558	ppbv	96
56) 1,1,1,2-Tetrachloroethane	12.28	131	802432	8.248	ppbv #	56
57) Chlorobenzene	12.30	112	1347731	8.177	ppbv	95
58) Ethyl Benzene	12.86	91	2478846	8.745	ppbv	100
59) m/p-Xylene	13.15	91	4260154m	16.826	ppbv	
60) o-Xylene	13.85	91	2103811	8.593	ppbv	100
61) Styrene	13.69	104	1534951	9.135	ppbv	100
62) Isopropylbenzene	14.83	105	2966057	8.555	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.84	83	1470260	8.156	ppbv	99
64) n-propylbenzene	15.72	120	765418	8.700	ppbv	99
65) tert-Butylbenzene	16.91	119	2715037	8.887	ppbv	99
66) Benzyl Chloride	17.16	91	1510418	10.632	ppbv	99
67) sec-Butylbenzene	17.46	105	3842730	8.844	ppbv	100
69) p-Isopropyltoluene	17.82	119	3203540	9.056	ppbv	99
70) n-Butylbenzene	18.71	91	3348180	8.933	ppbv	100
71) 2-Chlorotoluene	15.62	91	2277285	8.638	ppbv	99
72) 4-Ethyltoluene	16.00	105	2454646	8.919	ppbv	100
73) 1,3,5-Trimethylbenzene	16.16	105	2390844	9.078	ppbv	100
74) 1,2,4-Trimethylbenzene	16.93	105	2497367	8.847	ppbv	100
75) 1,3-Dichlorobenzene	17.17	146	1479870	8.482	ppbv	100
76) 1,4-Dichlorobenzene	17.31	146	1482634	8.722	ppbv	99
77) 1,2-Dichlorobenzene	17.99	146	1448468	8.750	ppbv	100
78) Hexachloro-1,3-Butadiene	23.55	225	1091770	9.963	ppbv	99
79) Naphthalene	22.41	128	2467196	10.210	ppbv	100
80) Naphthalene, 2-methyl-	25.11	142	1121888	13.834	ppbv	99
81) 1,2,4-Trichlorobenzene	22.14	180	1283976	9.579	ppbv	100

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 879

Delta R.T. 0.00 min

Lab File: VL033585.D

Acq: 11 Apr 2019 4:54

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 49 Resp: 815882

Ion Ratio Lower Upper

49 100

128 50.4 24.0 72.0

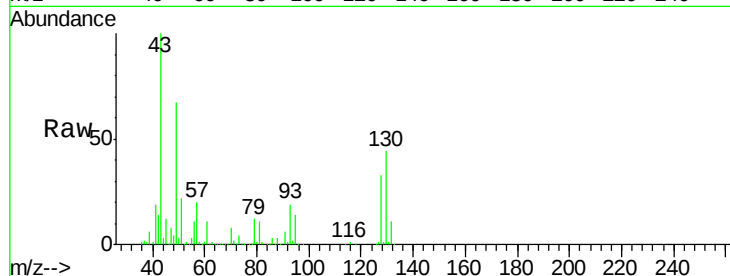
130 63.6 31.2 93.6

Manual Integrations

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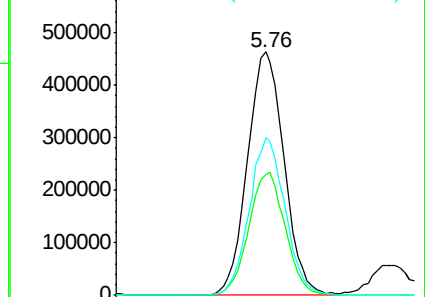
4/11/2019 1:02:31 PM



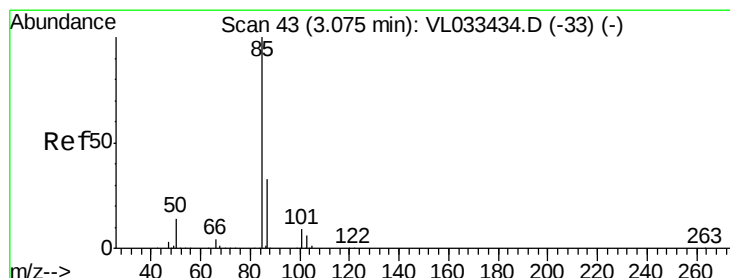
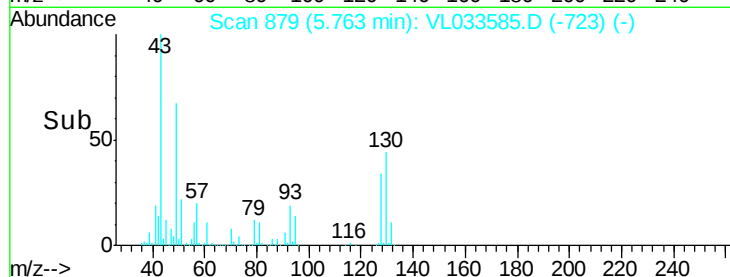
Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



Time-->



#2

Dichlorodifluoromethane

Concen: 7.951 ppbv

RT: 3.08 min Scan# 44

Delta R.T. 0.00 min

Lab File: VL033585.D

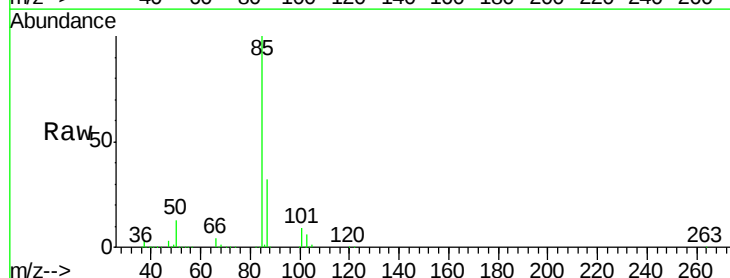
Acq: 11 Apr 2019 4:54

Tgt Ion: 85 Resp: 946062

Ion Ratio Lower Upper

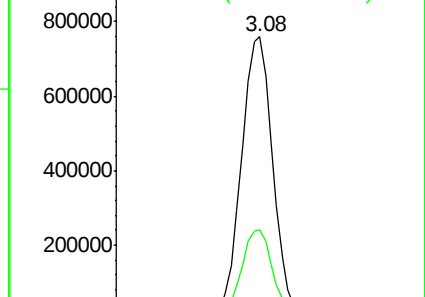
85 100

87 32.0 26.7 40.1

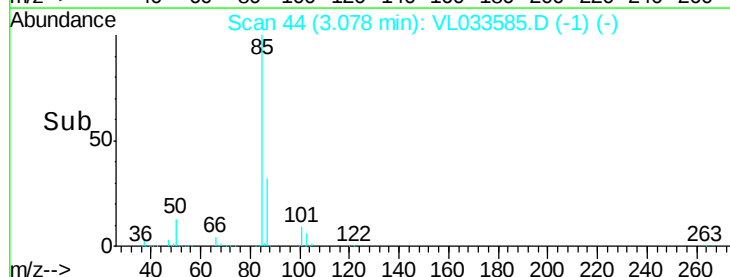


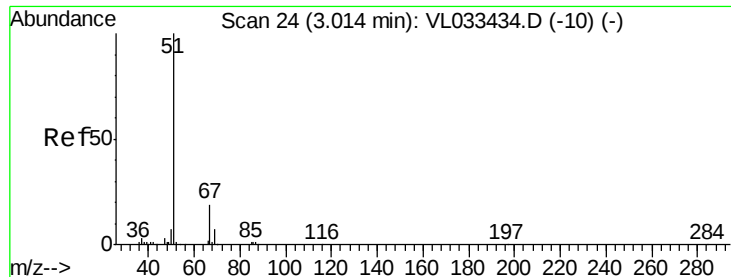
Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0



Time-->





#3

Chlorodifluoromethane

Concen: 8.476 ppbv

RT: 3.01 min Scan# 24

Delta R.T. 0.00 min

Lab File: VL033585.D

Acq: 11 Apr 2019 4:54

Tot Ion: 51 Resp: 796131

Ion Ratio Lower Upper

51 100

67 19.7 15.7 23.5

Instrument :

MSVOA_L

ClientSampleId :

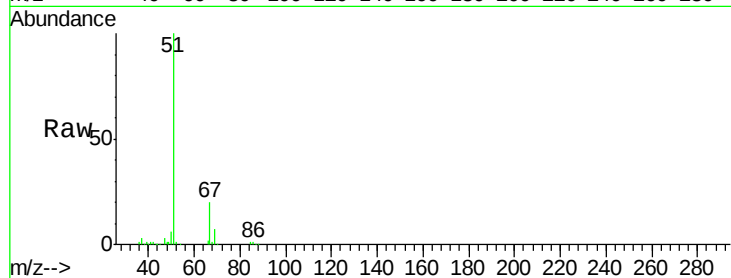
VSTDCCC010EC

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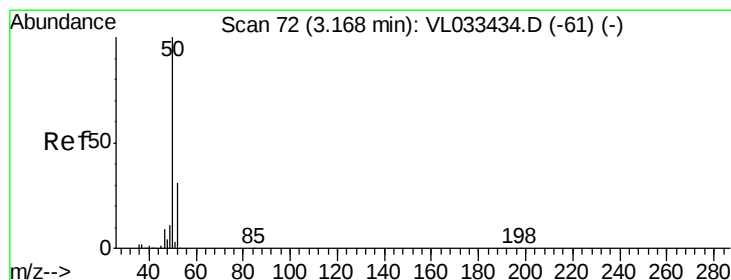
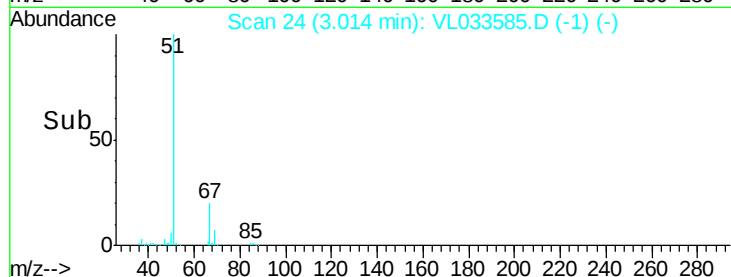
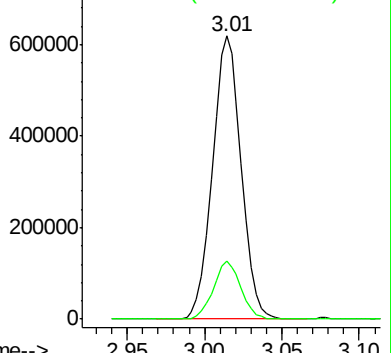
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 8.536 ppbv

RT: 3.17 min Scan# 73

Delta R.T. 0.00 min

Lab File: VL033585.D

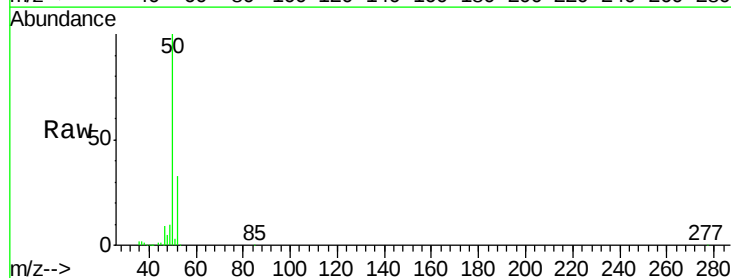
Acq: 11 Apr 2019 4:54

Tgt Ion: 50 Resp: 424271

Ion Ratio Lower Upper

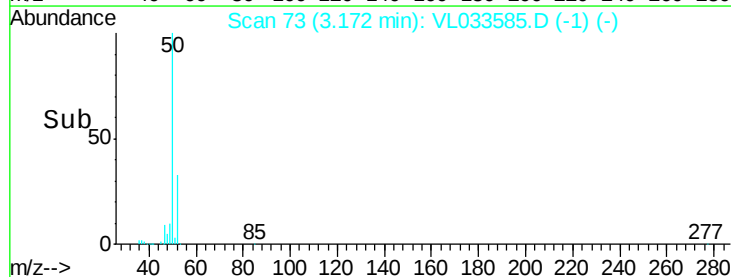
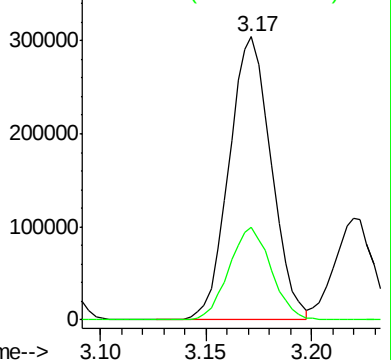
50 100

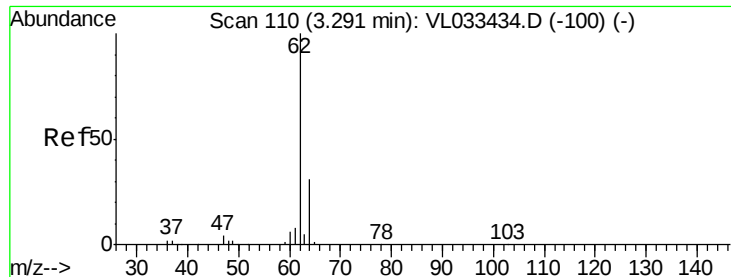
52 32.8 25.0 37.6



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 8.647 ppbv

RT: 3.29 min Scan# 110

Delta R.T. 0.00 min

Lab File: VL033585.D

Acq: 11 Apr 2019 4:54

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 62 Resp: 422301

Ion Ratio Lower Upper

62 100

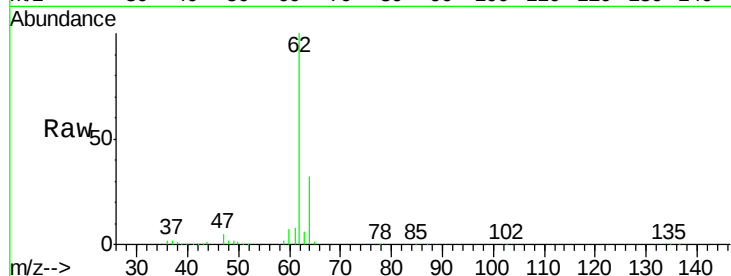
64 31.9 24.9 37.3

Manual Integrations

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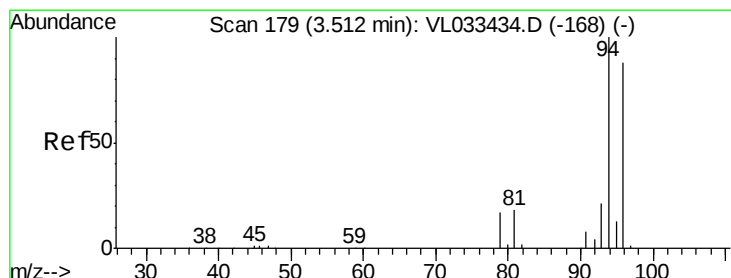
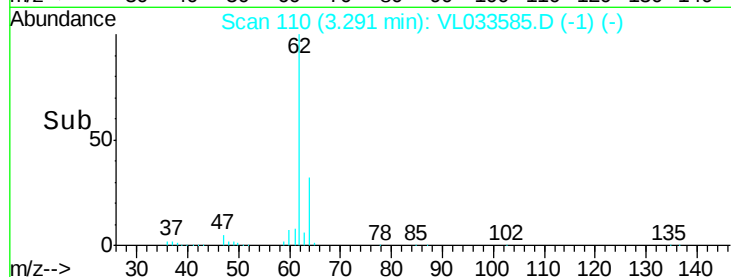
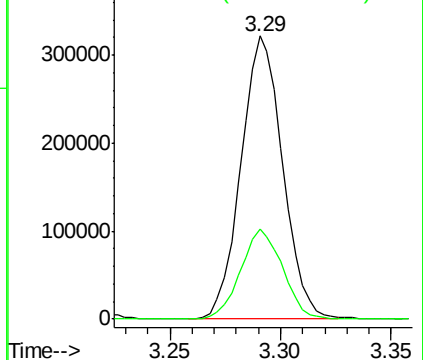
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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 8.788 ppbv

RT: 3.51 min Scan# 179

Delta R.T. 0.00 min

Lab File: VL033585.D

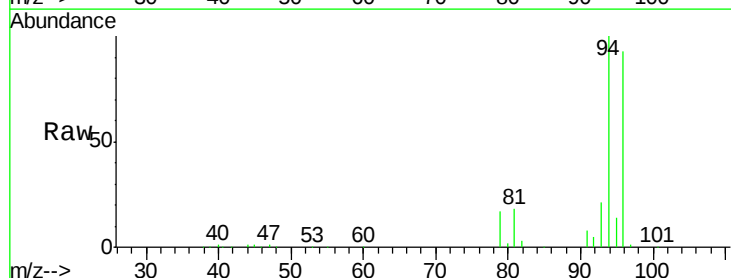
Acq: 11 Apr 2019 4:54

Tgt Ion: 94 Resp: 275794

Ion Ratio Lower Upper

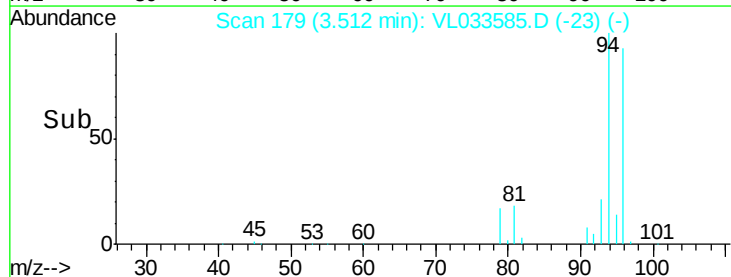
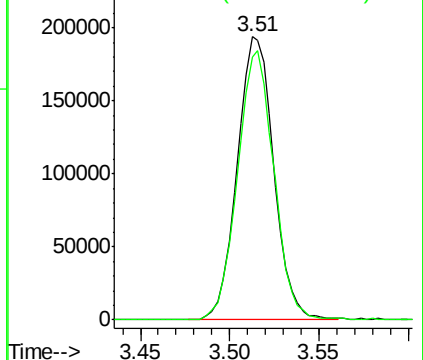
94 100

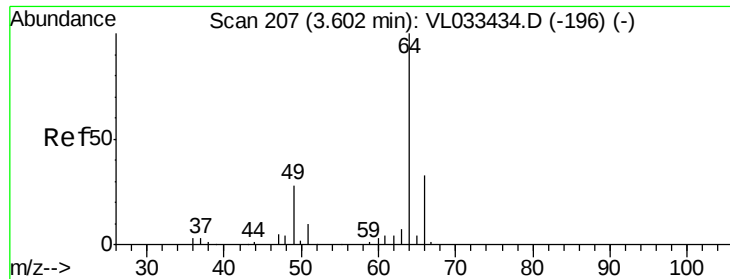
96 93.1 70.2 105.2



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 8.803 ppbv

RT: 3.60 min Scan# 207

Delta R.T. 0.00 min

Lab File: VL033585.D

Acq: 11 Apr 2019 4:54

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 64 Resp: 159992

Ion Ratio Lower Upper

64 100

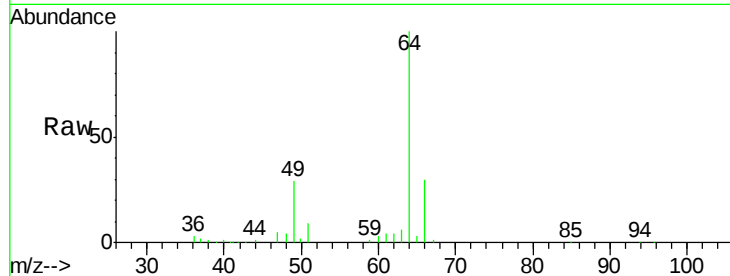
66 30.0 26.7 40.1

Manual Integrations

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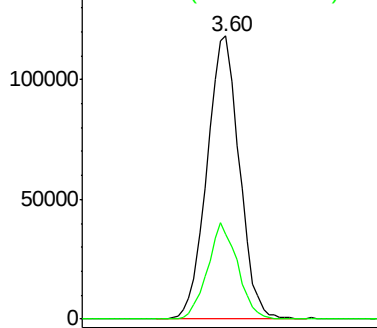
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4/11/2019 1:02:31 PM

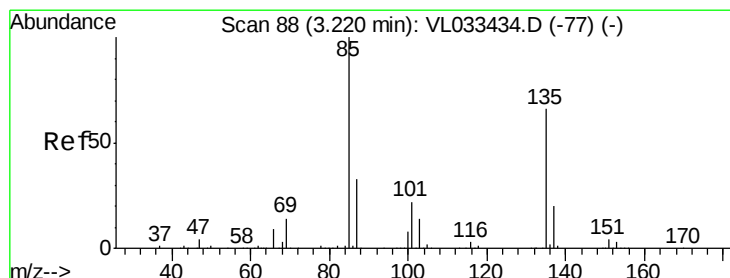
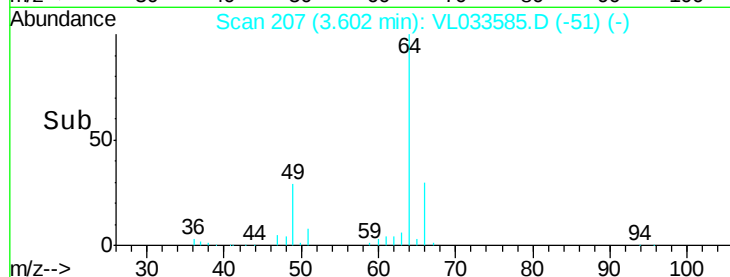


Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



Time-->



#8

Dichlorotetrafluoroethane

Concen: 8.677 ppbv

RT: 3.22 min Scan# 88

Delta R.T. 0.00 min

Lab File: VL033585.D

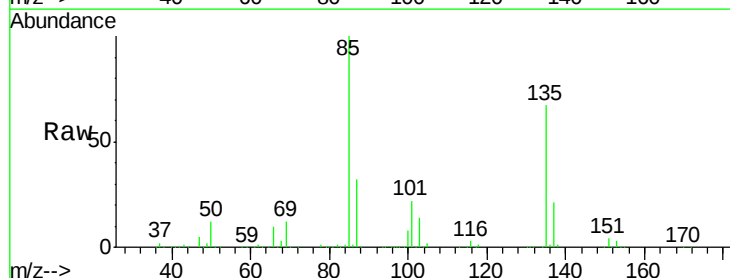
Acq: 11 Apr 2019 4:54

Tgt Ion: 85 Resp: 1100196

Ion Ratio Lower Upper

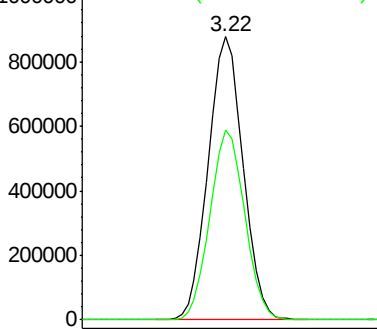
85 100

135 67.2 54.0 81.0

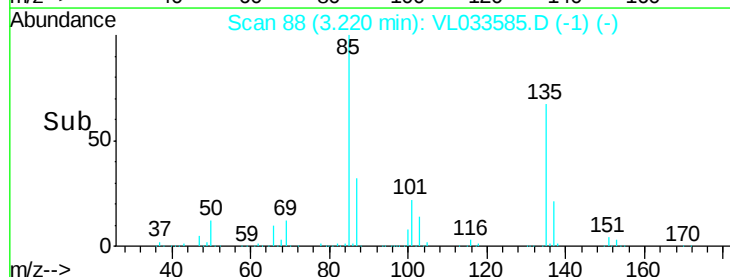


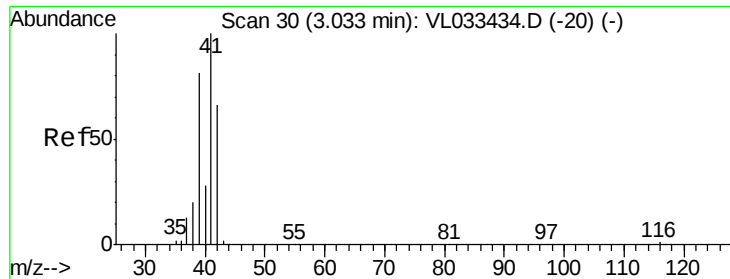
Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V



Time-->





#9

Propene

Concen: 8.372 ppbv

RT: 3.04 min Scan# 31

Delta R.T. 0.00 min

Lab File: VL033585.D

Acq: 11 Apr 2019 4:54

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 41 Resp: 330243

Ion Ratio Lower Upper

41 100

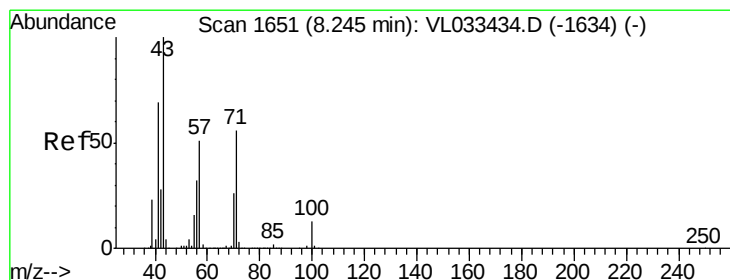
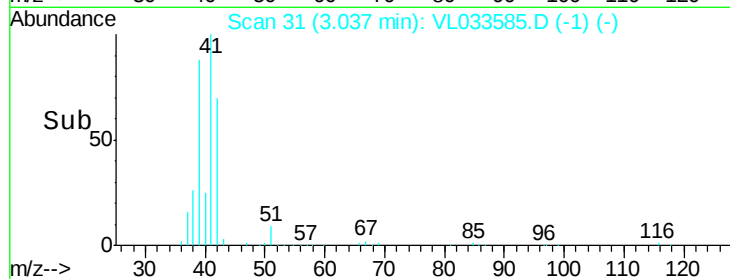
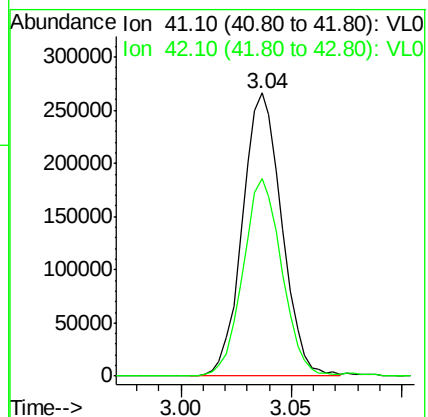
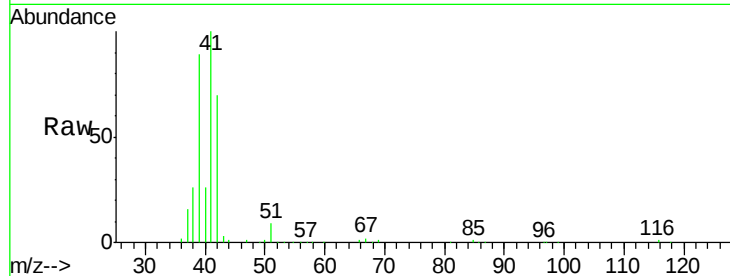
42 69.9 53.9 80.9

Manual Integrations

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#10

Heptane

Concen: 8.672 ppbv

RT: 8.25 min Scan# 1651

Delta R.T. 0.00 min

Lab File: VL033585.D

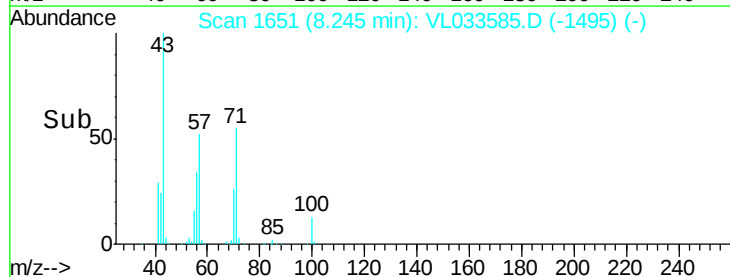
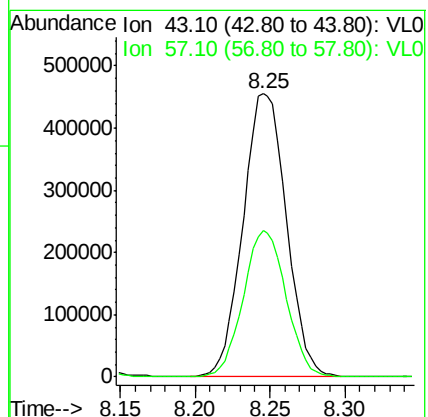
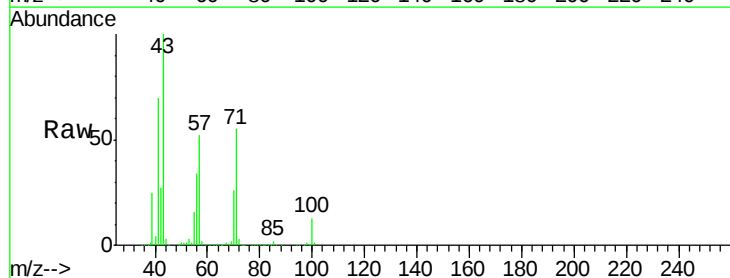
Acq: 11 Apr 2019 4:54

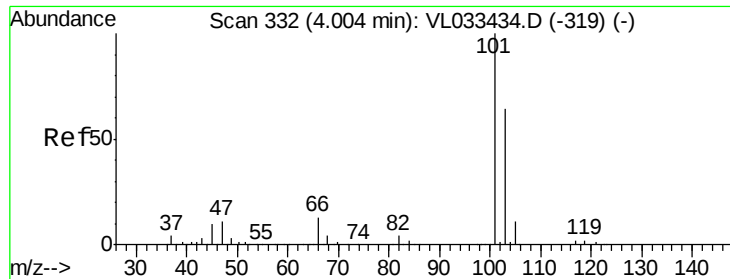
Tgt Ion: 43 Resp: 914364

Ion Ratio Lower Upper

43 100

57 51.1 40.6 60.8





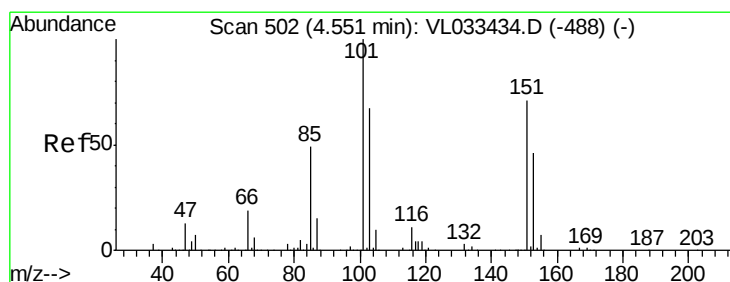
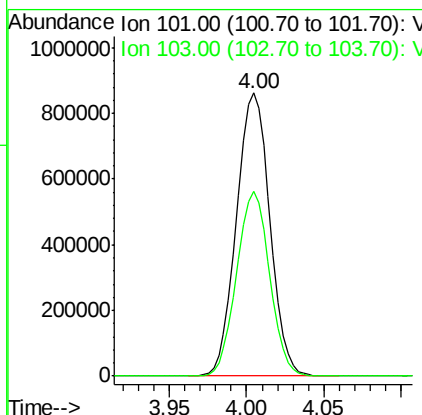
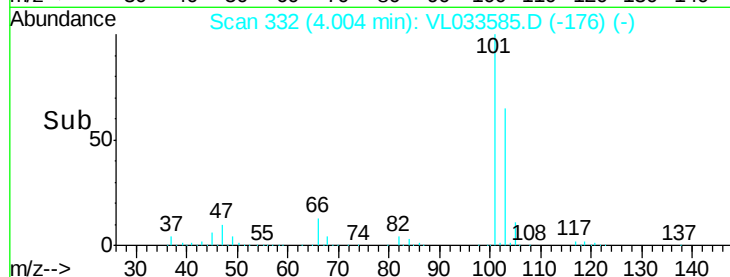
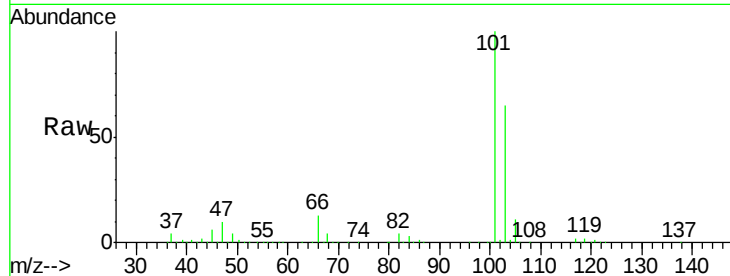
#11
 Trichlorofluoromethane
 Concen: 8.828 ppbv
 RT: 4.00 min Scan# 332
 Delta R.T. 0.00 min
 Lab File: VL033585.D
 Acq: 11 Apr 2019 4:54

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:101 Resp: 1294705
 Ion Ratio Lower Upper
 101 100
 103 65.1 51.3 76.9

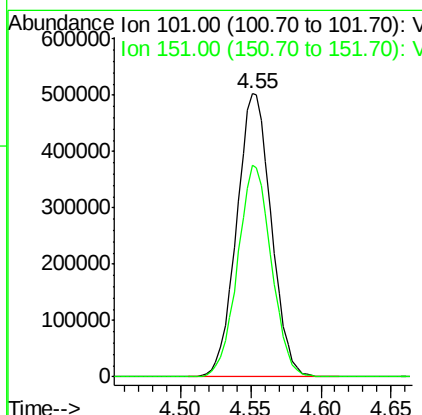
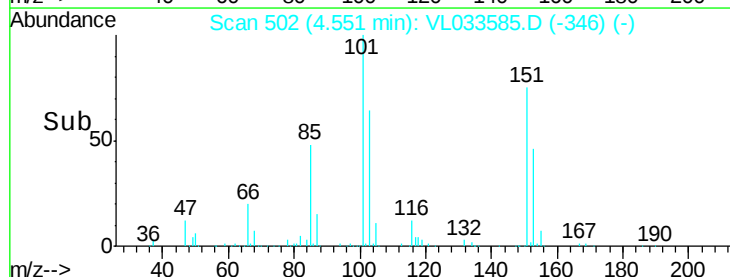
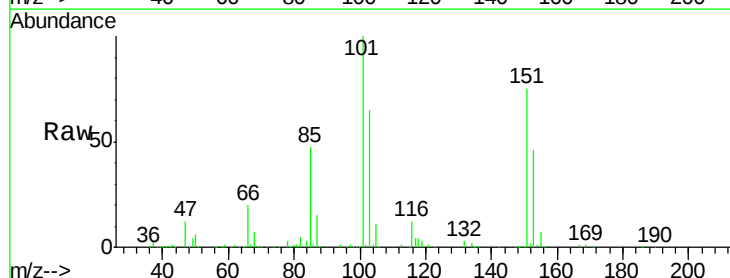
Manual Integrations
 APPROVED

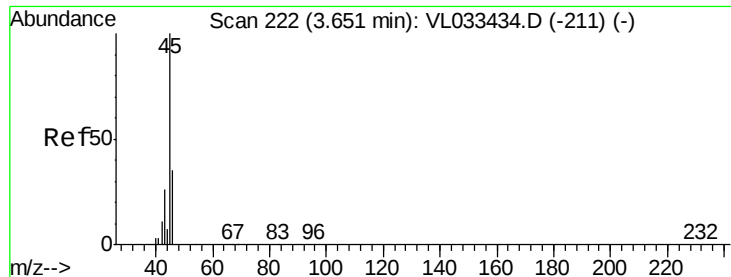
MMDadoda
 4/11/2019 1:02:31 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 8.764 ppbv
 RT: 4.55 min Scan# 502
 Delta R.T. 0.00 min
 Lab File: VL033585.D
 Acq: 11 Apr 2019 4:54

Tgt Ion:101 Resp: 863238
 Ion Ratio Lower Upper
 101 100
 151 73.1 57.7 86.5





#13

Ethanol

Concen: 9.525 ppbv

RT: 3.65 min Scan# 221

Delta R.T. -0.00 min

Lab File: VL033585.D

Acq: 11 Apr 2019 4:54

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 45 Resp: 97225

Ion Ratio Lower Upper

45 100

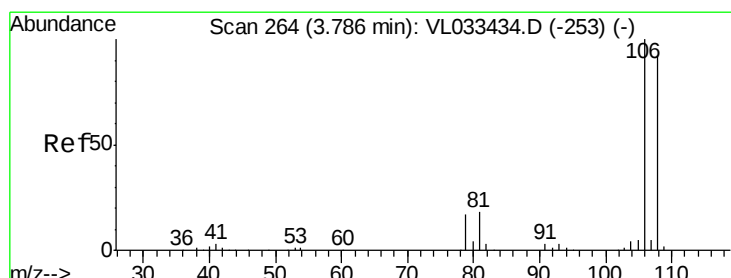
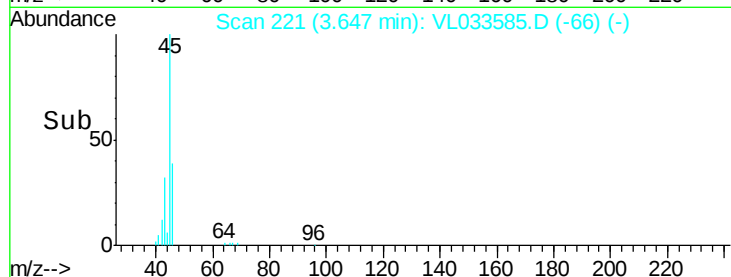
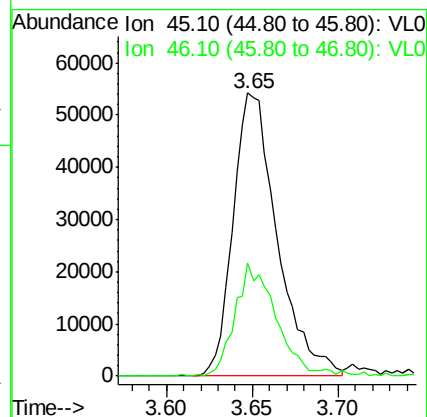
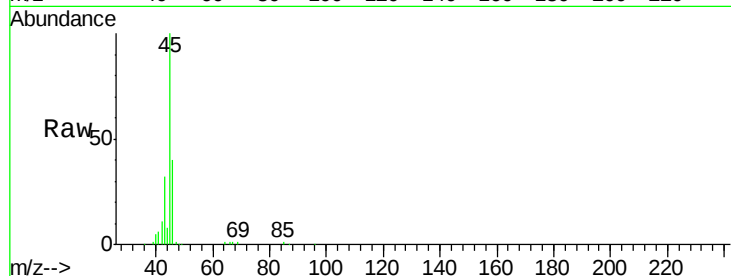
46 37.7 25.4 101.8

Manual Integrations

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#14

Bromoethene

Concen: 8.759 ppbv

RT: 3.79 min Scan# 265

Delta R.T. 0.00 min

Lab File: VL033585.D

Acq: 11 Apr 2019 4:54

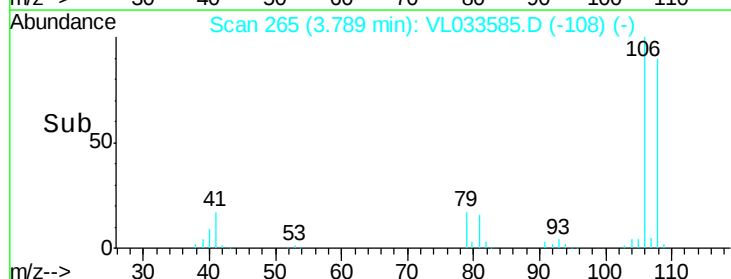
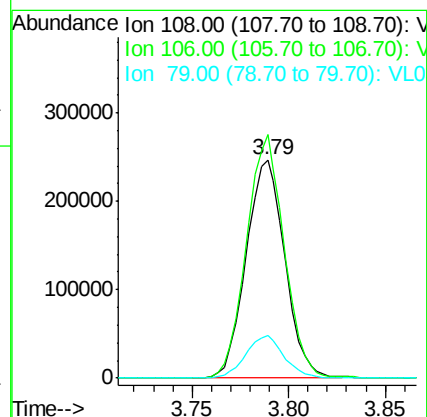
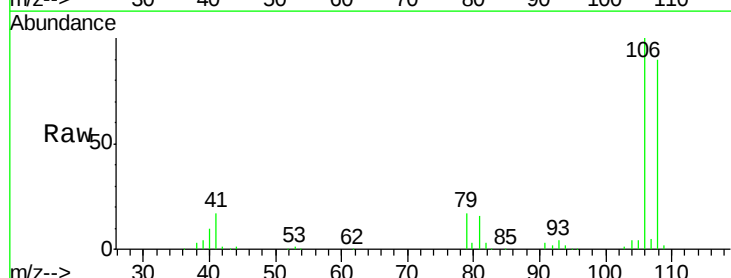
Tgt Ion: 108 Resp: 344097

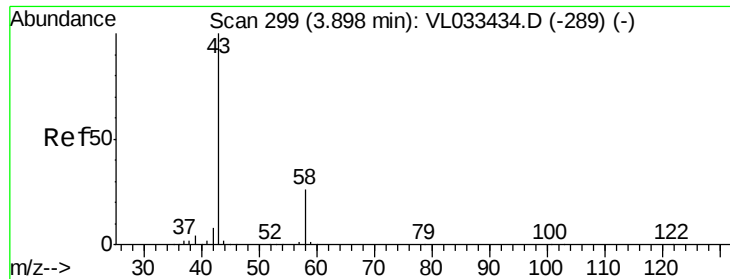
Ion Ratio Lower Upper

108 100

106 108.9 86.4 129.6

79 19.6 15.8 23.8





#15

Acetone

Concen: 8.132 ppbv

RT: 3.90 min Scan# 300

Delta R.T. 0.00 min

Lab File: VL033585.D

Acq: 11 Apr 2019 4:54

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 797782

Ion Ratio Lower Upper

43 100

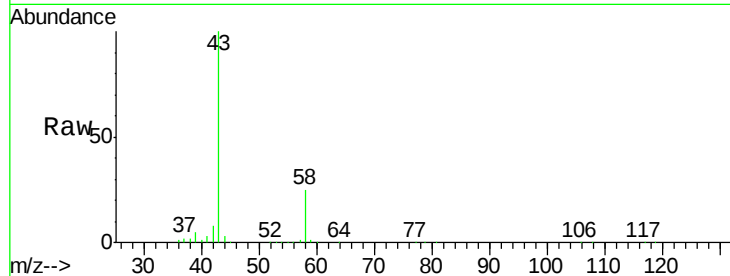
58 25.6 20.5 30.7

Manual Integrations

APPROVED

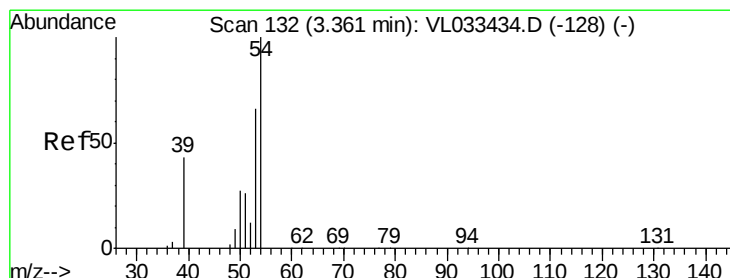
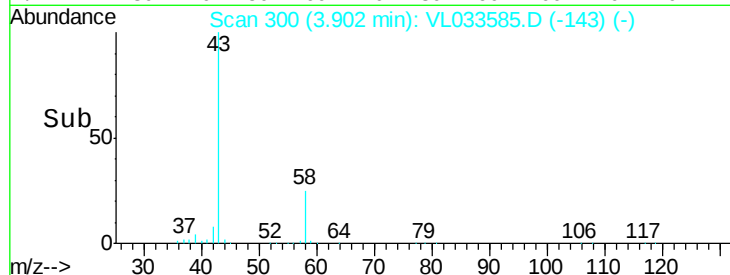
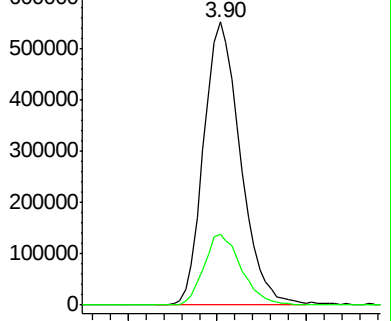
MMDadoda

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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 9.213 ppbv

RT: 3.36 min Scan# 133

Delta R.T. 0.00 min

Lab File: VL033585.D

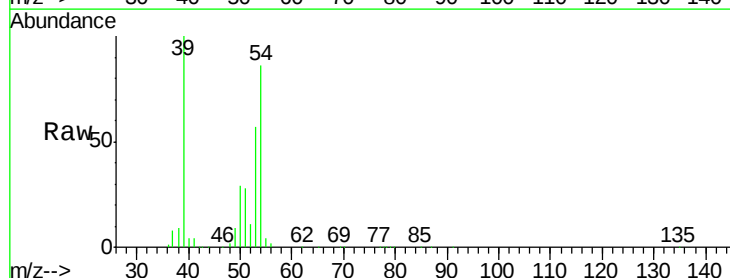
Acq: 11 Apr 2019 4:54

Tgt Ion: 39 Resp: 358497

Ion Ratio Lower Upper

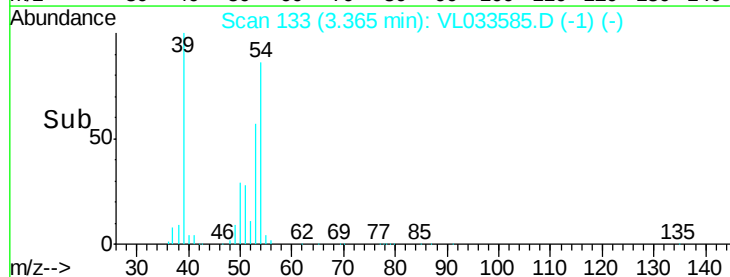
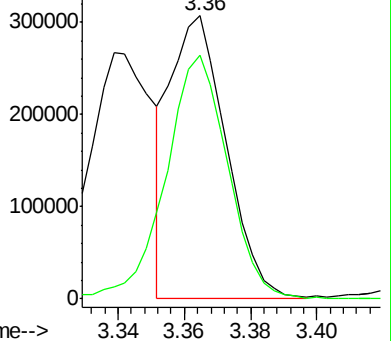
39 100

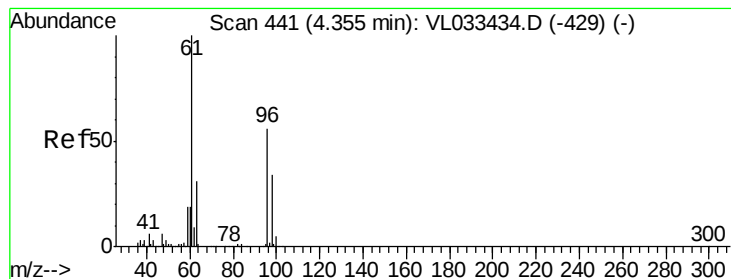
54 96.3 69.4 104.2



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0





#17

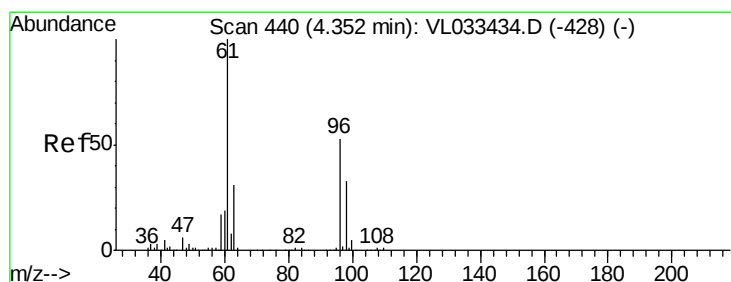
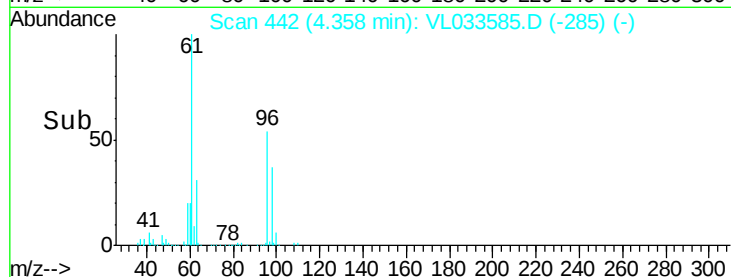
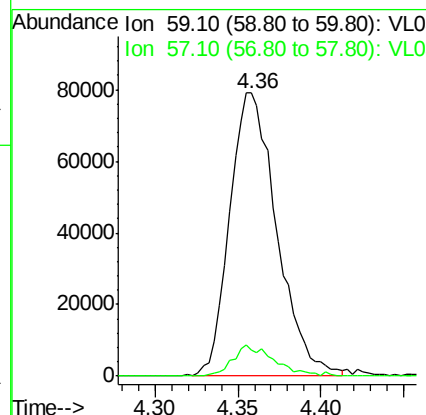
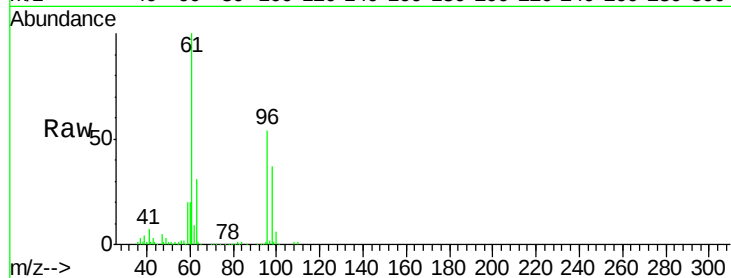
tert-Butyl alcohol
Concen: 8.658 ppbv
RT: 4.36 min Scan# 442
Delta R.T. 0.00 min
Lab File: VL033585.D
Acq: 11 Apr 2019 4:54

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 59 Resp: 156173
Ion Ratio Lower Upper
59 100
57 9.9 7.8 11.8

Manual Integrations
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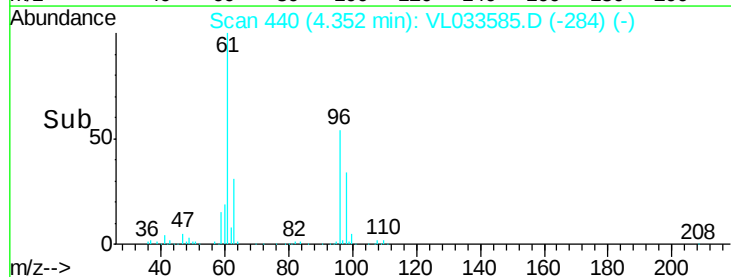
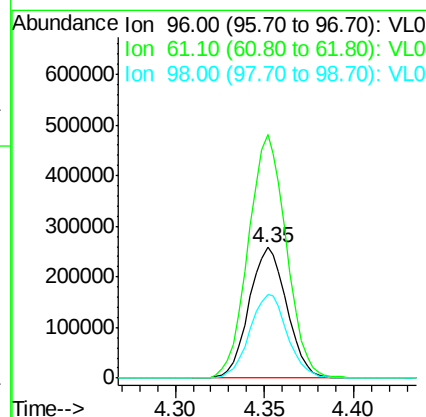
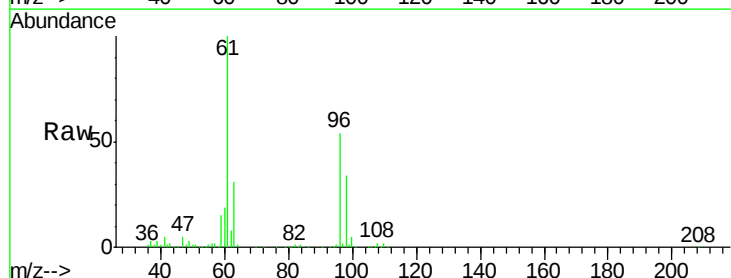
MMDadoda
4/11/2019 1:02:31 PM

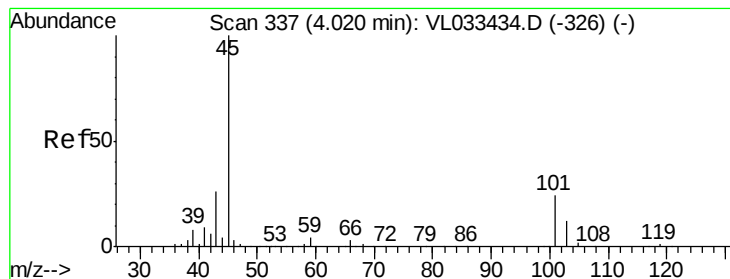


#18

1,1-Dichloroethene
Concen: 9.054 ppbv
RT: 4.35 min Scan# 440
Delta R.T. 0.00 min
Lab File: VL033585.D
Acq: 11 Apr 2019 4:54

Tgt Ion: 96 Resp: 383069
Ion Ratio Lower Upper
96 100
61 186.7 149.8 224.6
98 64.3 48.7 73.1





#19

Isopropyl Alcohol

Concen: 9.220 ppbv

RT: 4.02 min Scan# 338

Delta R.T. 0.00 min

Lab File: VL033585.D

Acq: 11 Apr 2019 4:54

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 45 Resp: 572082

Ion Ratio Lower Upper

45 100

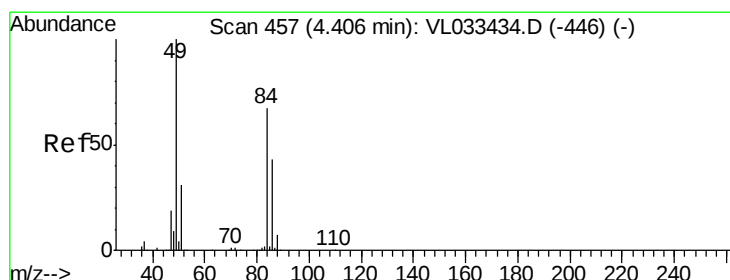
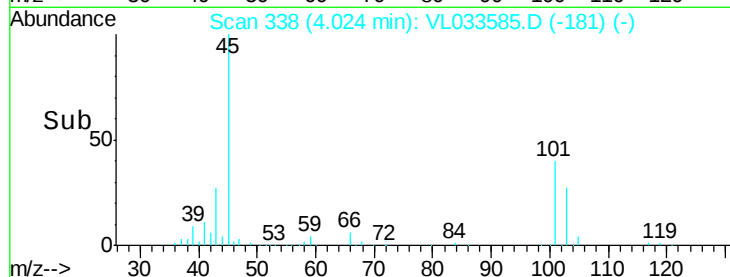
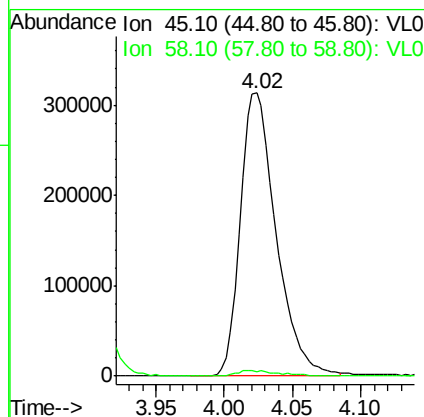
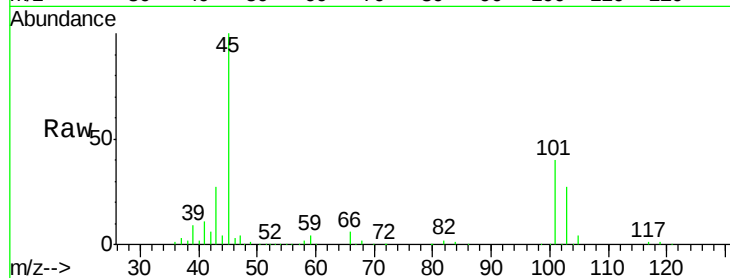
58 2.7 1.4 2.2#

Manual Integrations

APPROVED

MMDadoda

4/11/2019 1:02:31 PM



#20

Methylene Chloride

Concen: 7.791 ppbv

RT: 4.41 min Scan# 458

Delta R.T. 0.00 min

Lab File: VL033585.D

Acq: 11 Apr 2019 4:54

Tgt Ion: 84 Resp: 324421

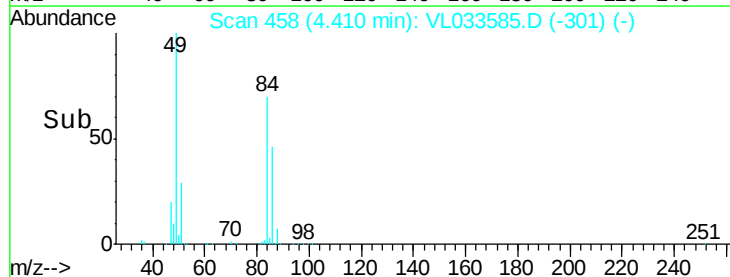
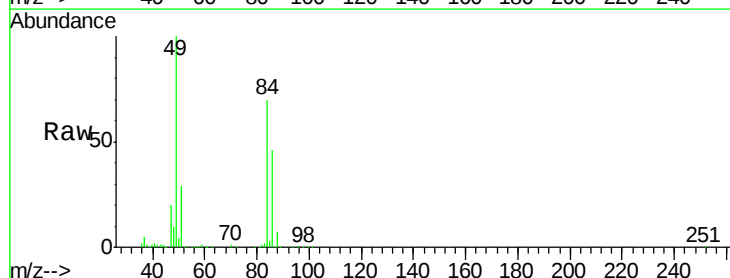
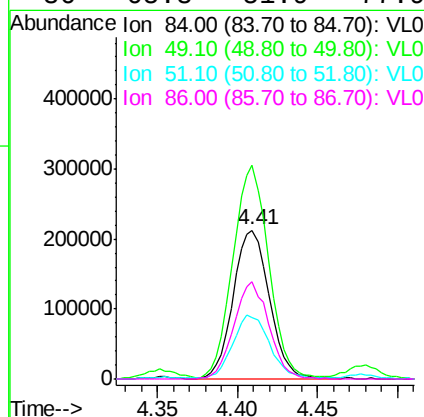
Ion Ratio Lower Upper

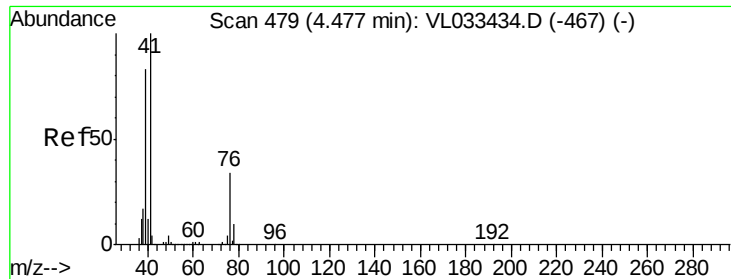
84 100

49 142.8 120.0 180.0

51 41.0 36.7 55.1

86 65.8 51.9 77.9





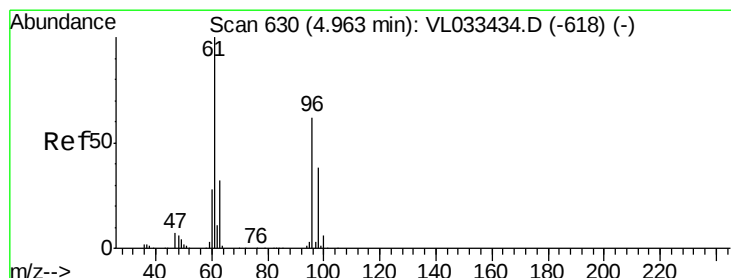
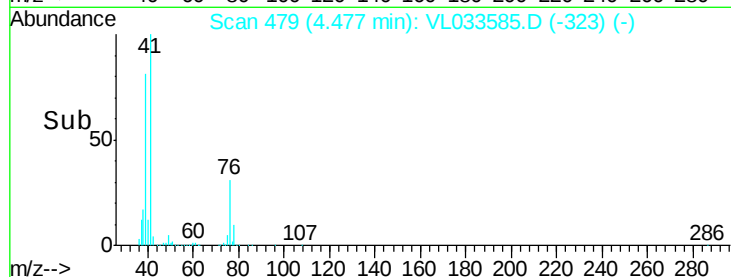
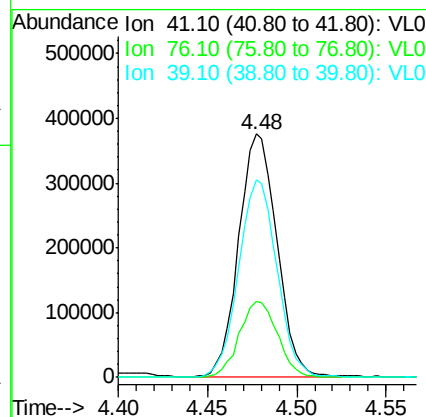
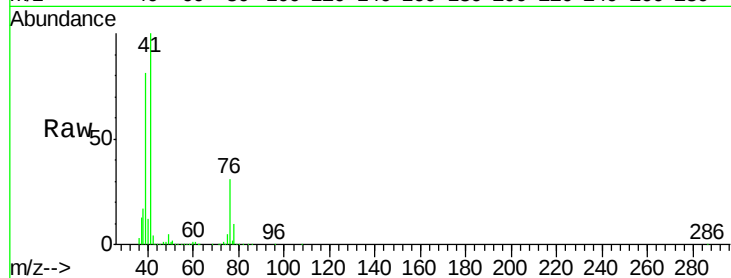
#21
Allvl Chloride
Concen: 9.005 ppbv
RT: 4.48 min Scan# 479
Delta R.T. 0.00 min
Lab File: VL033585.D
Acq: 11 Apr 2019 4:54

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
41	100		
76	31.5	25.4	38.2
39	81.9	65.3	97.9

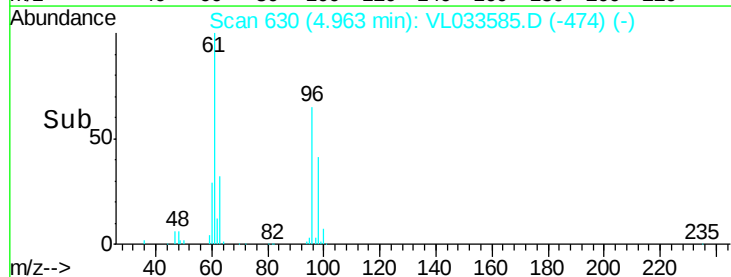
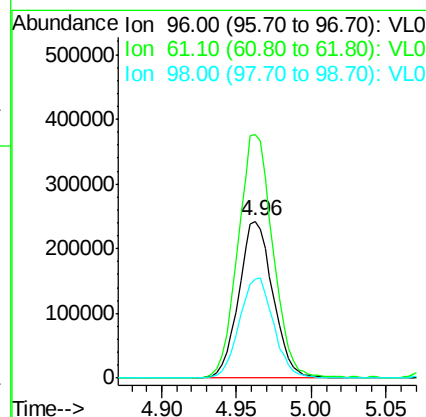
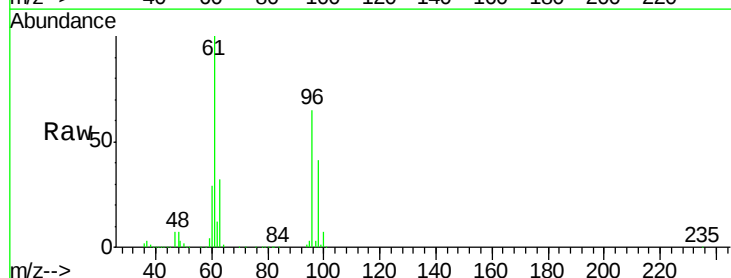
Manual Integrations
APPROVED

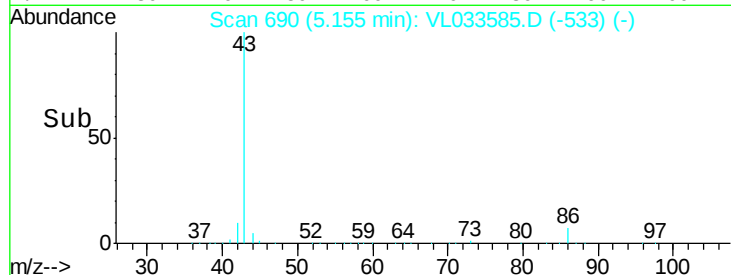
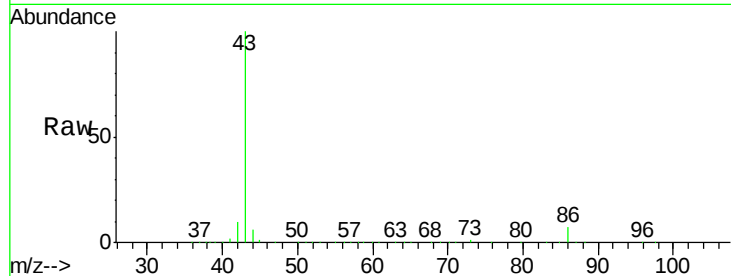
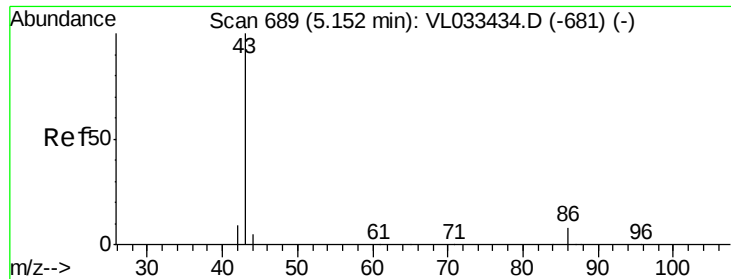
MMDadoda
4/11/2019 1:02:31 PM



#22
trans-1,2-Dichloroethene
Concen: 8.735 ppbv
RT: 4.96 min Scan# 630
Delta R.T. 0.00 min
Lab File: VL033585.D
Acq: 11 Apr 2019 4:54

Tgt Ion	Ratio	Lower	Upper
96	100		
61	154.9	128.9	193.3
98	63.0	49.5	74.3





#23

Vinyl Acetate

Concen: 8.626 ppbv

RT: 5.16 min Scan# 690

Delta R.T. 0.00 min

Lab File: VL033585.D

Acq: 11 Apr 2019 4:54

Tot Ion: 43 Resp: 1204424

Ion Ratio Lower Upper

43 100

86 7.2 5.6 8.4

42 9.4 8.0 12.0

44 5.4 3.9 5.9

Instrument :

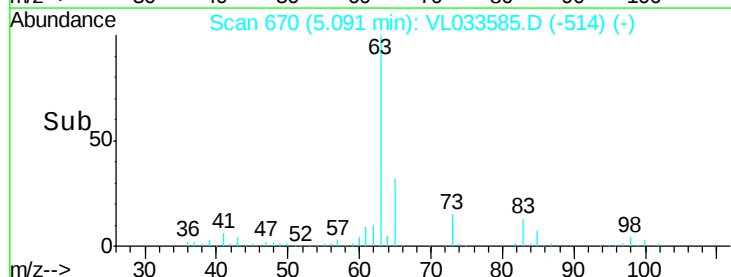
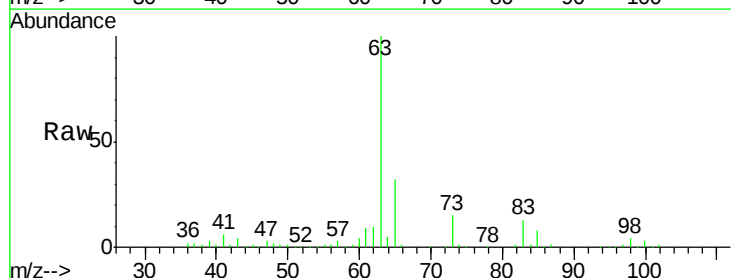
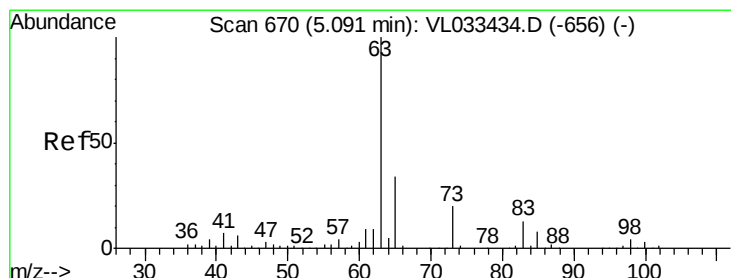
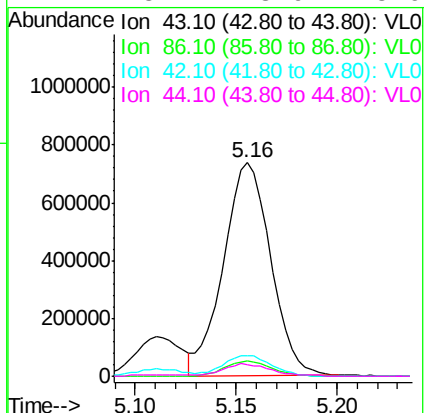
MSVOA_L

ClientSampleId :

VSTDCCC010EC

Manual Integrations
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4/11/2019 1:02:31 PM



#24

1,1-Dichloroethane

Concen: 8.153 ppbv

RT: 5.09 min Scan# 670

Delta R.T. 0.00 min

Lab File: VL033585.D

Acq: 11 Apr 2019 4:54

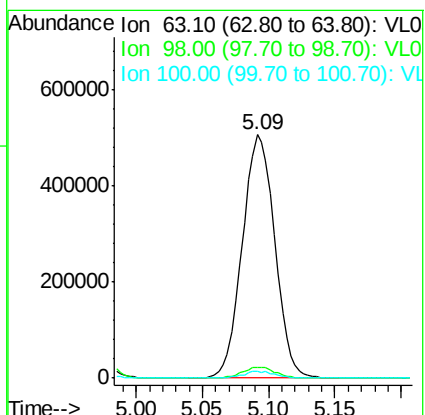
Tgt Ion: 63 Resp: 864759

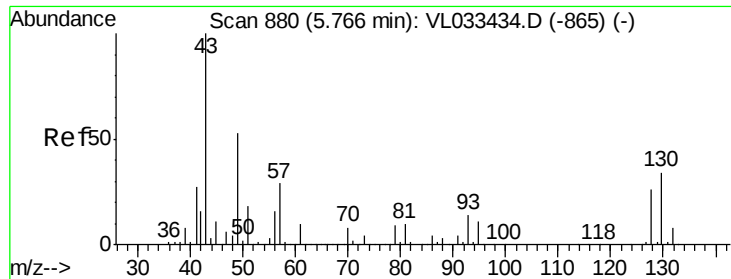
Ion Ratio Lower Upper

63 100

98 4.3 2.2 6.6

100 2.6 1.5 4.4





#25

Ethyl Acetate

Concen: 8.303 ppbv

RT: 5.77 min Scan# 881

Delta R.T. 0.00 min

Lab File: VL033585.D

Acq: 11 Apr 2019 4:54

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 1511338

Ion Ratio Lower Upper

43 100

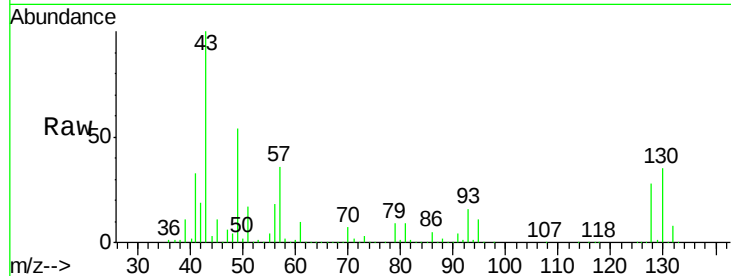
45 9.8 7.8 11.6

61 9.5 7.3 10.9

70 7.1 5.6 8.4

Manual Integrations
APPROVED

MMDadoda
4/11/2019 1:02:31 PM

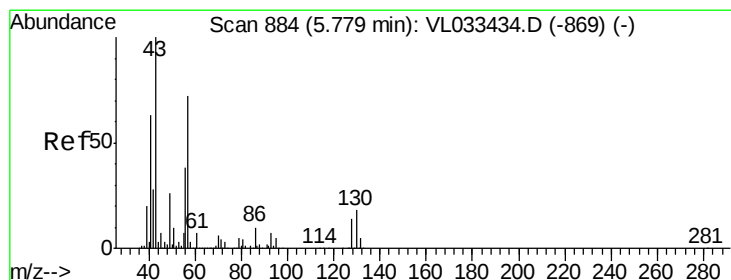
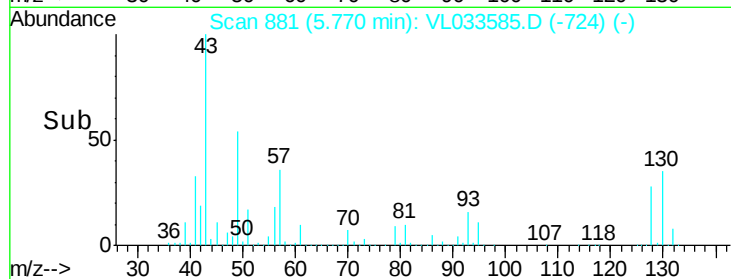
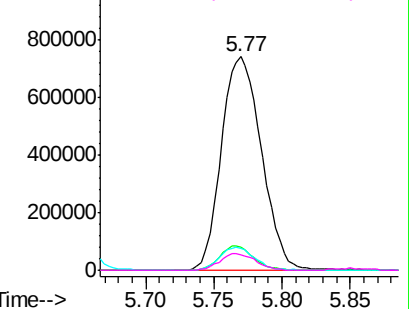


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 8.316 ppbv

RT: 5.78 min Scan# 884

Delta R.T. 0.00 min

Lab File: VL033585.D

Acq: 11 Apr 2019 4:54

Tgt Ion: 57 Resp: 672992

Ion Ratio Lower Upper

57 100

41 89.7 70.7 106.1

43 224.9 182.6 274.0

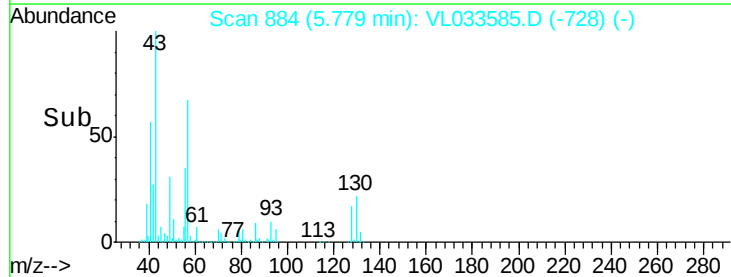
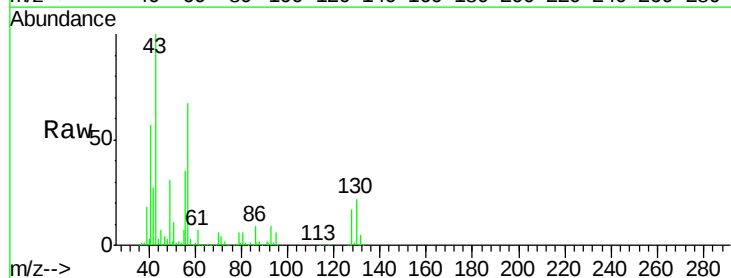
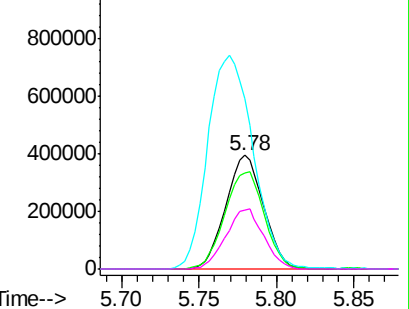
56 53.0 42.0 63.0

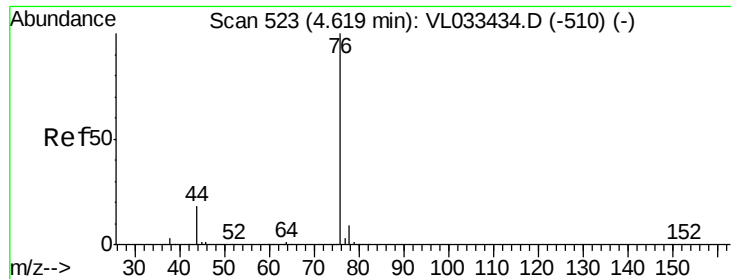
Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#27

Carbon Disulfide

Concen: 9.716 ppbv

RT: 4.62 min Scan# 524

Delta R.T. 0.00 min

Lab File: VL033585.D

Acq: 11 Apr 2019 4:54

Instrument :

MSVOA_L

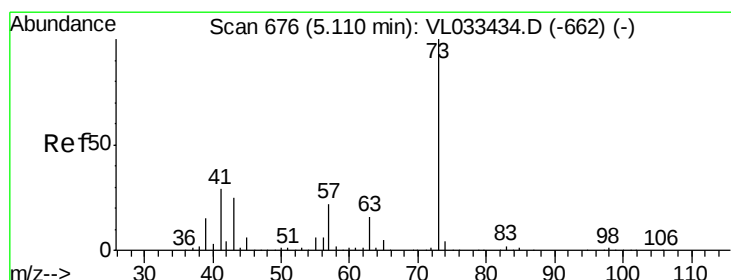
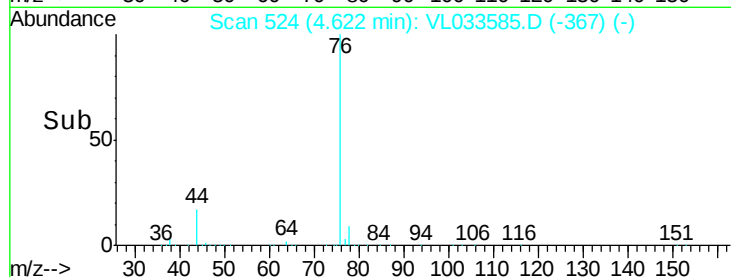
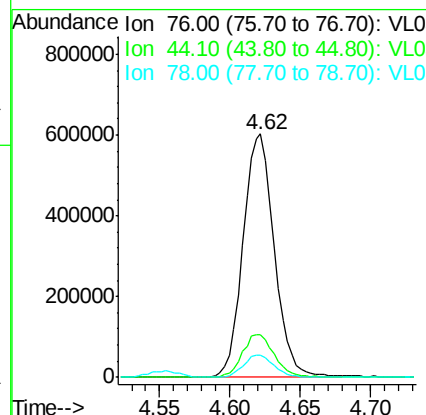
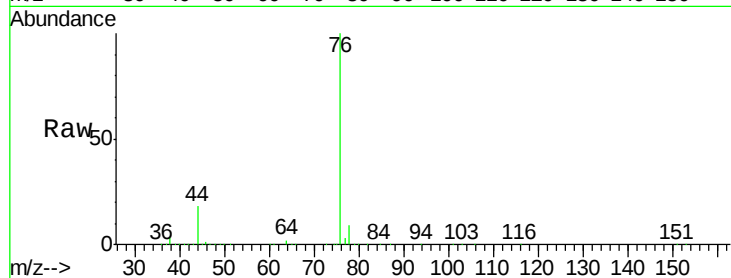
ClientSampleId :

VSTDCCC010EC

Tot Ion:	76	Resp:	935043
Ion Ratio	Lower	Upper	
76	100		
44	18.1	14.8	22.2
78	9.1	7.6	11.4

Manual Integrations
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#28

Methyl tert-Butyl Ether

Concen: 8.180 ppbv

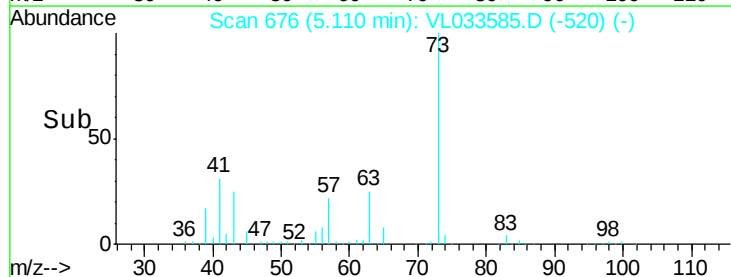
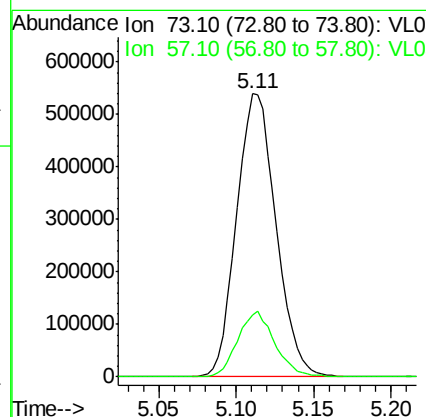
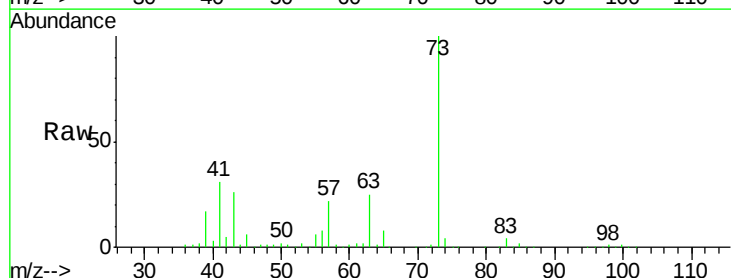
RT: 5.11 min Scan# 676

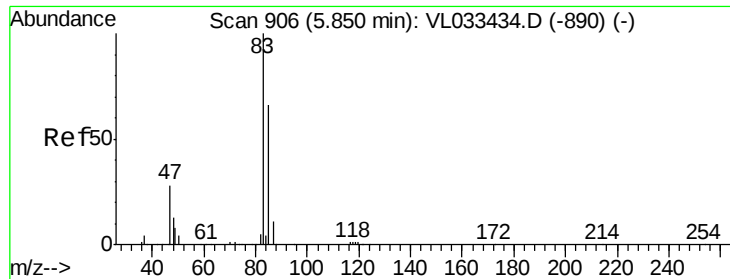
Delta R.T. 0.00 min

Lab File: VL033585.D

Acq: 11 Apr 2019 4:54

Tgt Ion:	73	Resp:	953542
Ion Ratio	Lower	Upper	
73	100		
57	22.0	17.4	26.2





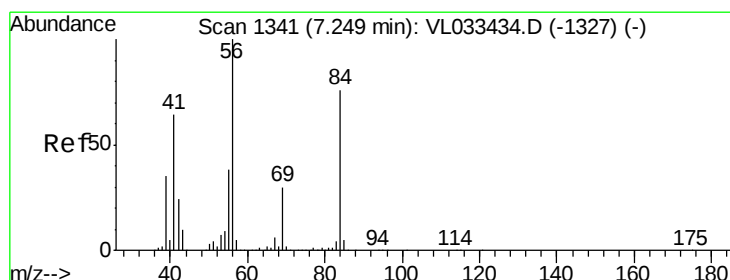
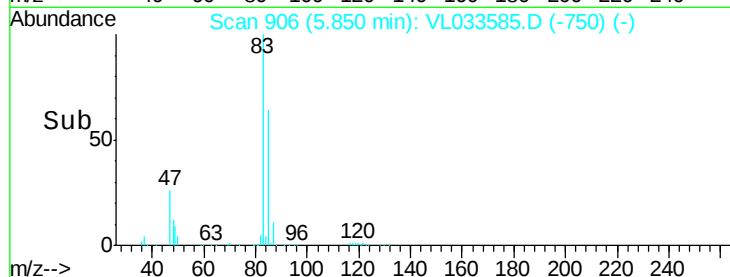
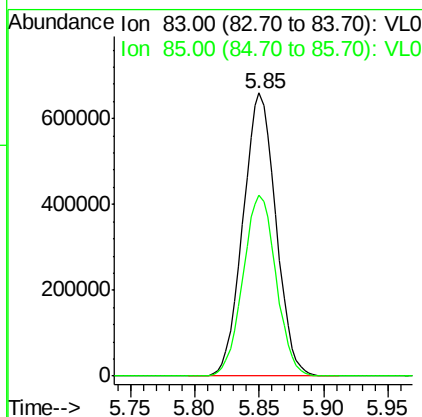
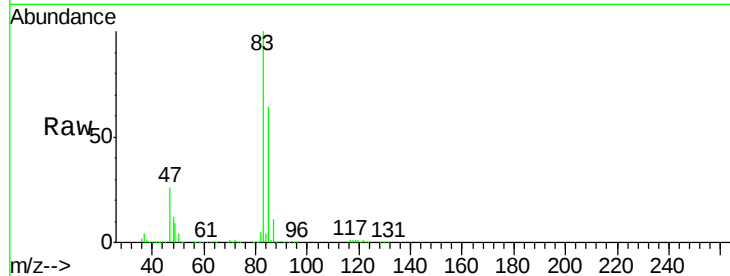
#29
Chloroform
Concen: 8.454 ppbv
RT: 5.85 min Scan# 906
Delta R.T. 0.00 min
Lab File: VL033585.D
Acq: 11 Apr 2019 4:54

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 83 Resp: 1172847
Ion Ratio Lower Upper
83 100
85 63.6 52.6 79.0

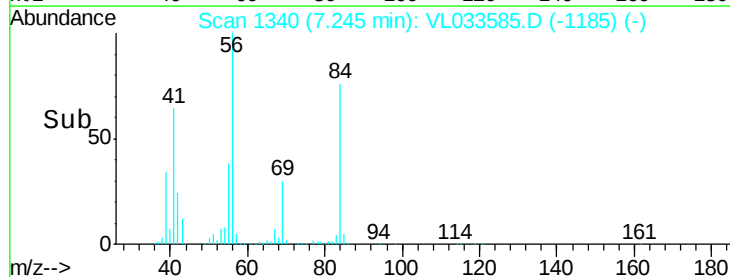
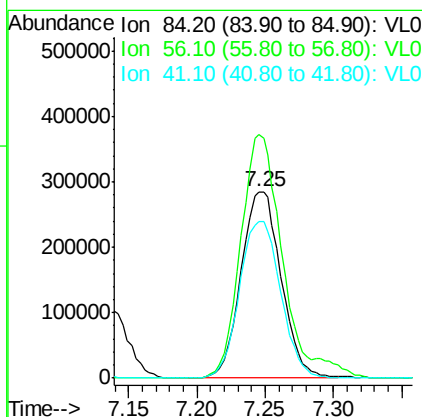
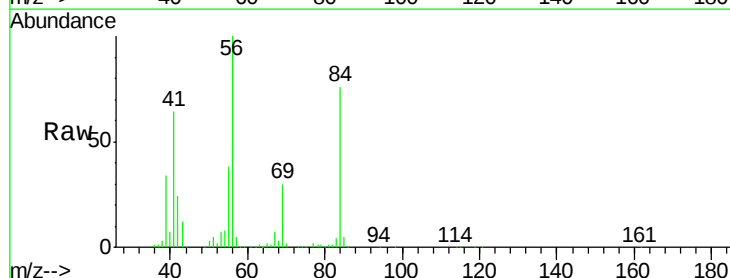
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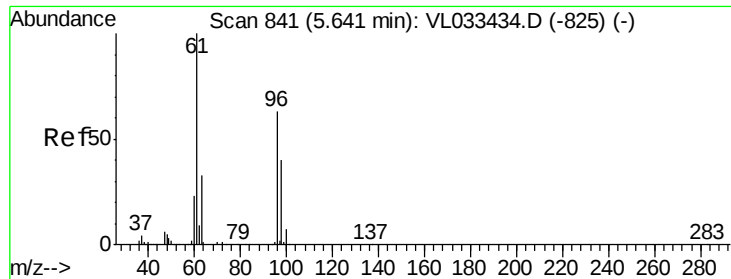
MMDadoda
4/11/2019 1:02:31 PM



#30
Cyclohexane
Concen: 9.085 ppbv
RT: 7.25 min Scan# 1340
Delta R.T. -0.00 min
Lab File: VL033585.D
Acq: 11 Apr 2019 4:54

Tgt Ion: 84 Resp: 581641
Ion Ratio Lower Upper
84 100
56 136.8 109.7 164.5
41 86.5 68.2 102.2





#31

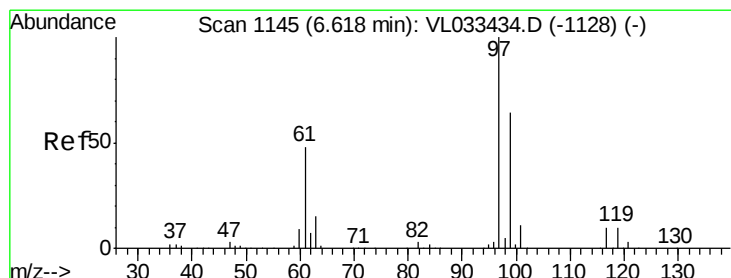
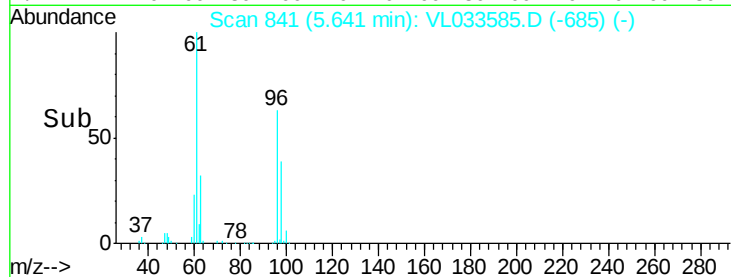
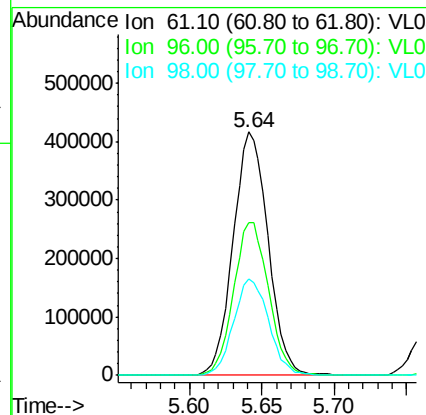
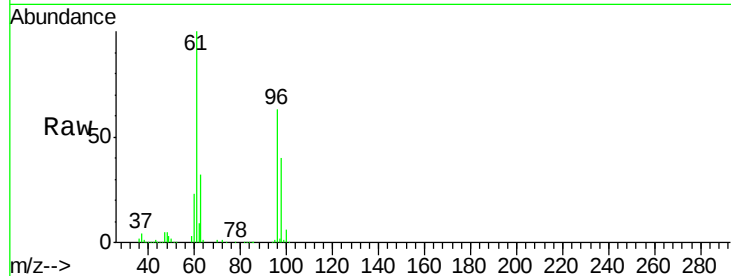
cis-1,2-Dichloroethene
 Concen: 8.650 ppbv
 RT: 5.64 min Scan# 841
 Delta R.T. 0.00 min
 Lab File: VL033585.D
 Acq: 11 Apr 2019 4:54

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
61	100		
96	62.8	50.6	76.0
98	39.4	32.2	48.2

Manual Integrations
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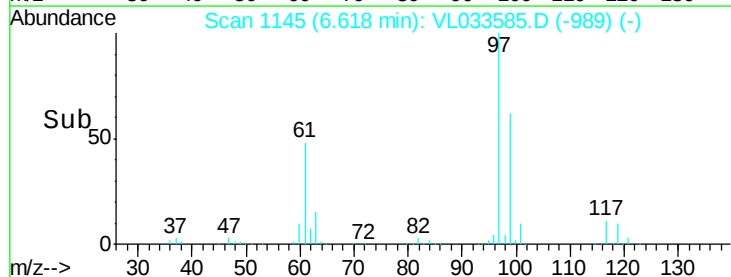
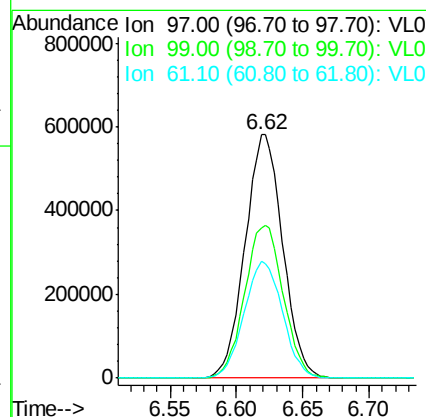
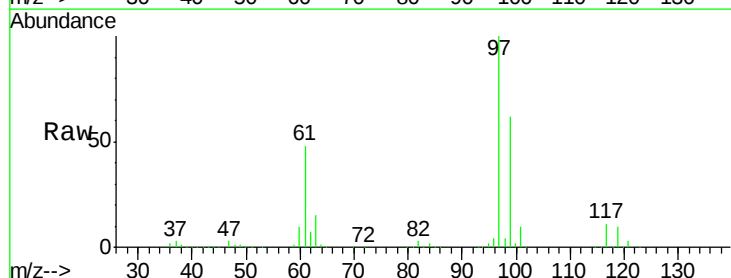
MMDadoda
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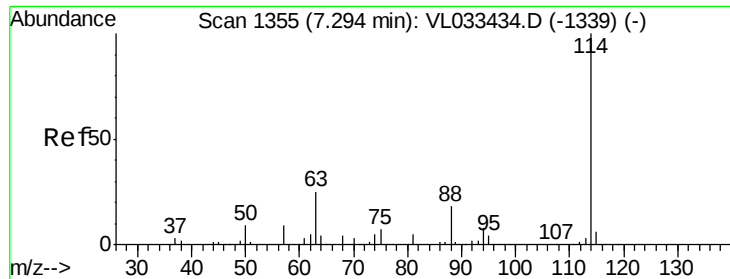


#32

1,1,1-Trichloroethane
 Concen: 8.668 ppbv
 RT: 6.62 min Scan# 1145
 Delta R.T. 0.00 min
 Lab File: VL033585.D
 Acq: 11 Apr 2019 4:54

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.4	51.5	77.3
61	49.3	38.8	58.2





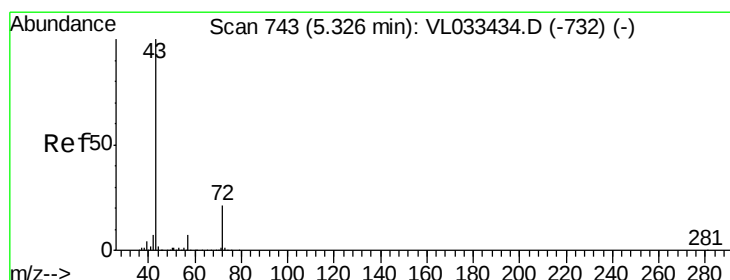
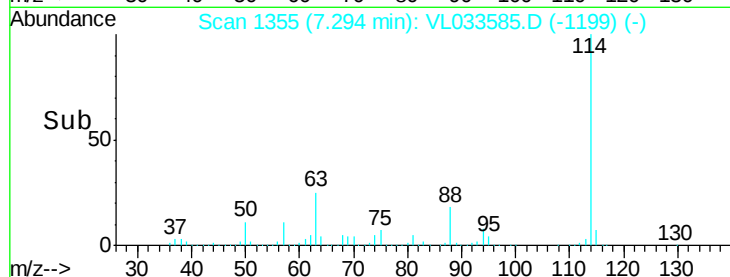
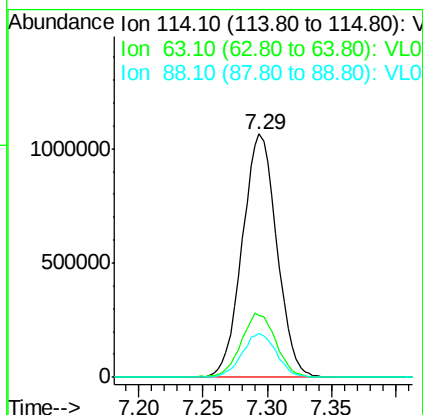
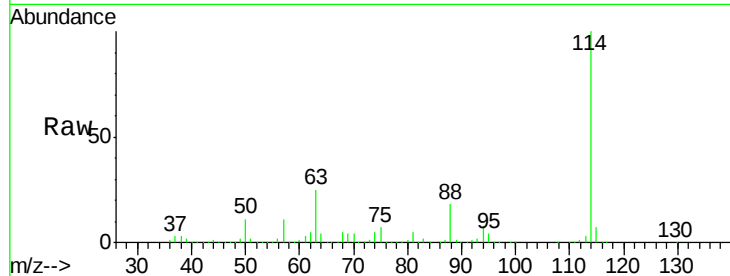
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1355
 Delta R.T. 0.00 min
 Lab File: VL033585.D
 Acq: 11 Apr 2019 4:54

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
114	100		
63	26.8	21.5	32.3
88	17.9	14.5	21.7

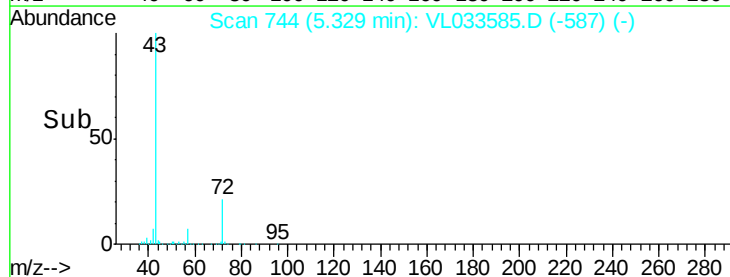
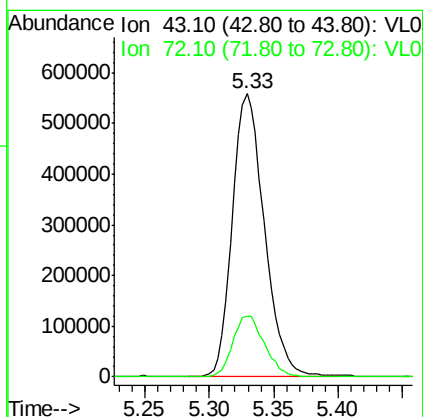
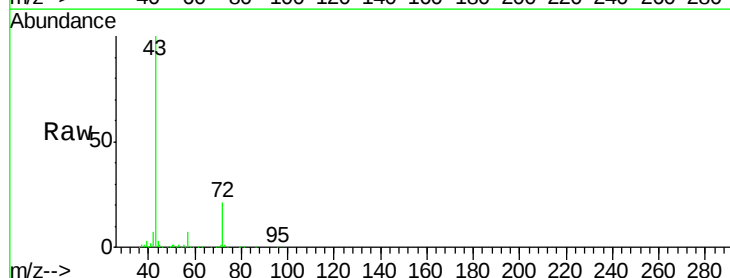
Manual Integrations
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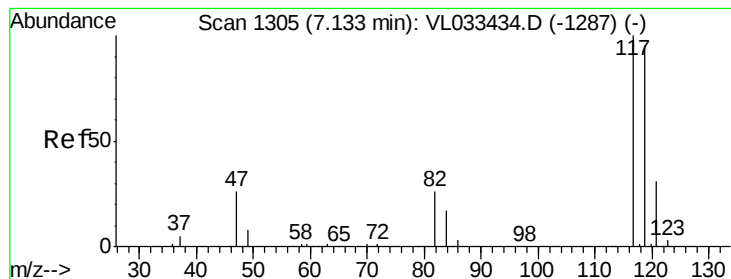
MMDadoda
 4/11/2019 1:02:31 PM



#34
 2-Butanone
 Concen: 8.078 ppbv
 RT: 5.33 min Scan# 744
 Delta R.T. 0.00 min
 Lab File: VL033585.D
 Acq: 11 Apr 2019 4:54

Tgt Ion	Ratio	Lower	Upper
43	100		
72	21.5	17.4	26.2





#35

Carbon Tetrachloride

Concen: 9.104 ppbv

RT: 7.14 min Scan# 1306

Delta R.T. 0.00 min

Lab File: VL033585.D

Acq: 11 Apr 2019 4:54

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:117 Resp: 1281323

Ion Ratio Lower Upper

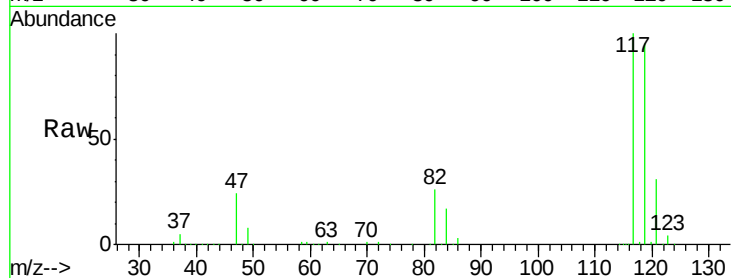
117 100

119 94.9 75.8 113.8

121 31.2 24.7 37.1

Manual Integrations
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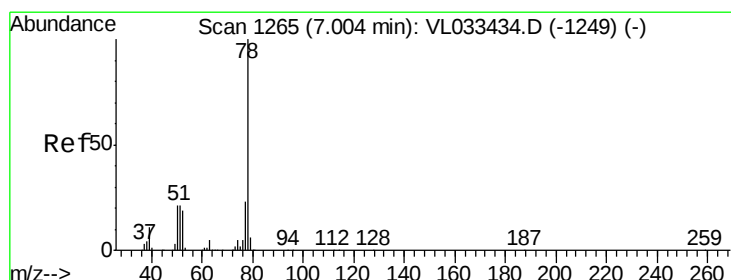
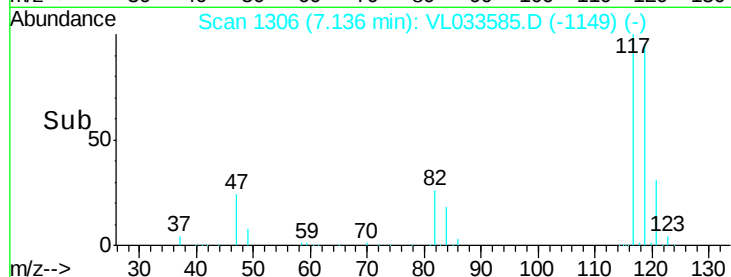
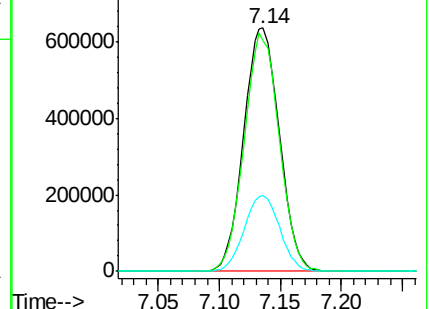
MMDadoda
4/11/2019 1:02:31 PM



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 8.415 ppbv

RT: 7.01 min Scan# 1266

Delta R.T. 0.00 min

Lab File: VL033585.D

Acq: 11 Apr 2019 4:54

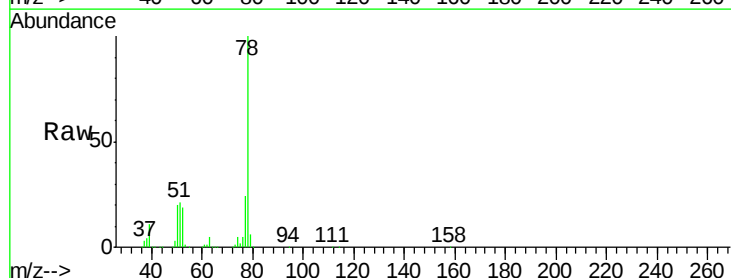
Tgt Ion: 78 Resp: 1403023

Ion Ratio Lower Upper

78 100

77 23.7 18.1 27.1

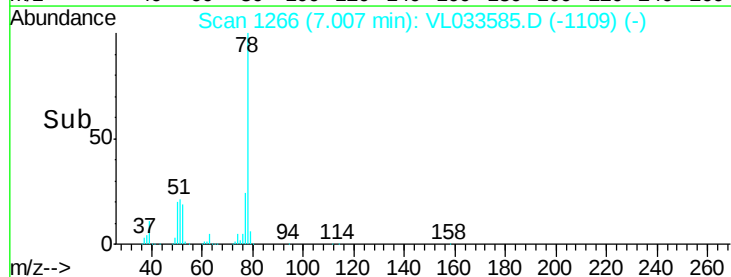
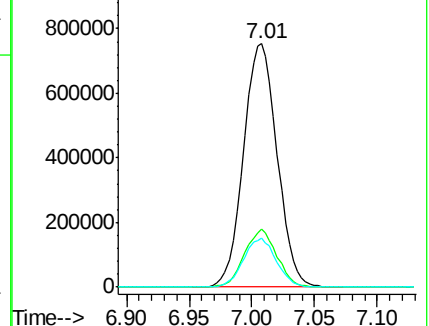
50 20.2 16.7 25.1

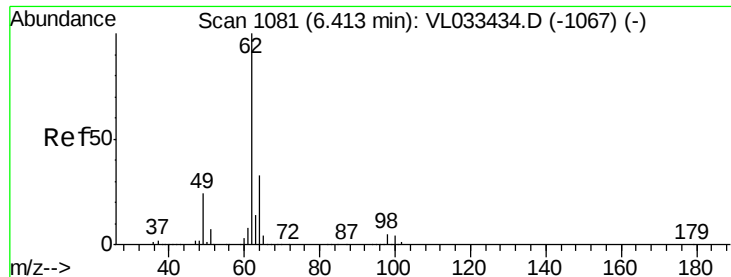


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





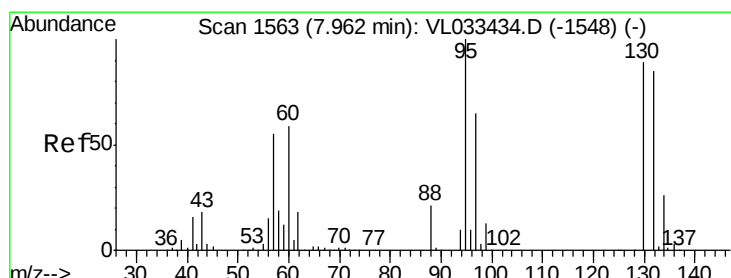
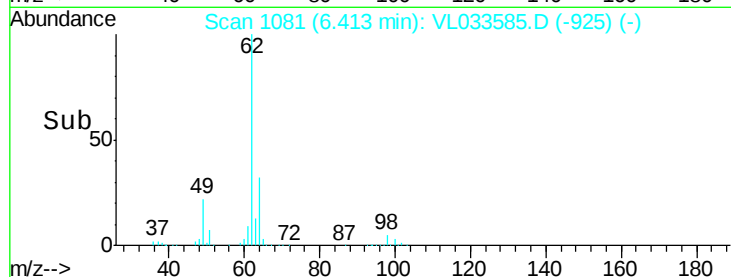
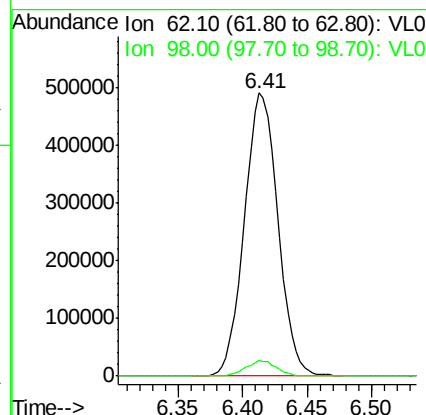
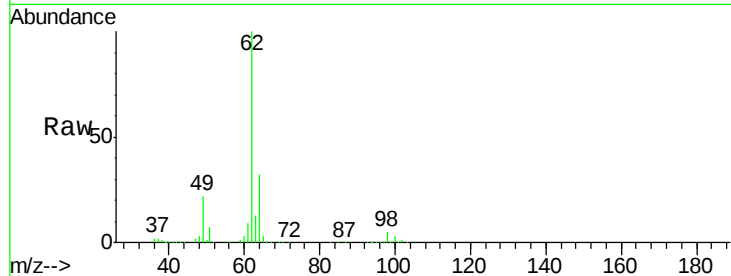
#37
 1,2-Dichloroethane
 Concen: 7.973 ppbv
 RT: 6.41 min Scan# 1081
 Delta R.T. 0.00 min
 Lab File: VL033585.D
 Acq: 11 Apr 2019 4:54

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Resp	Lower	Upper
62	100	891022		
98	5.2	4.4	6.6	

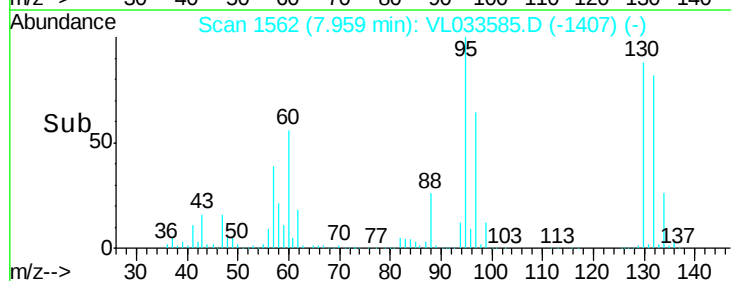
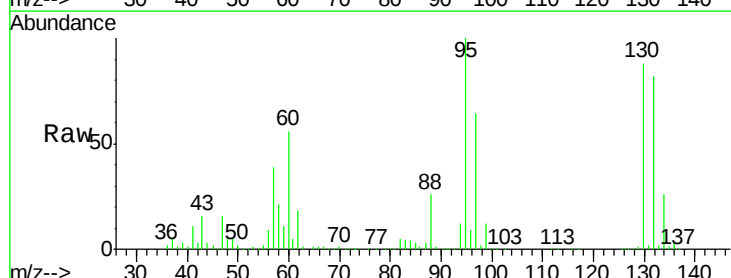
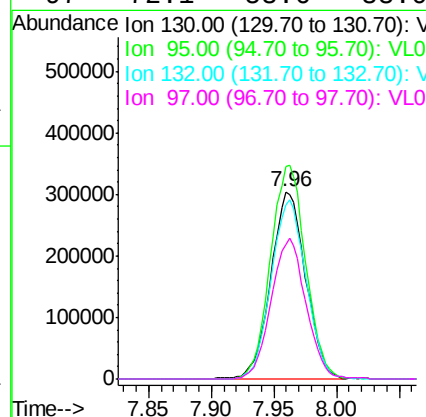
Manual Integrations
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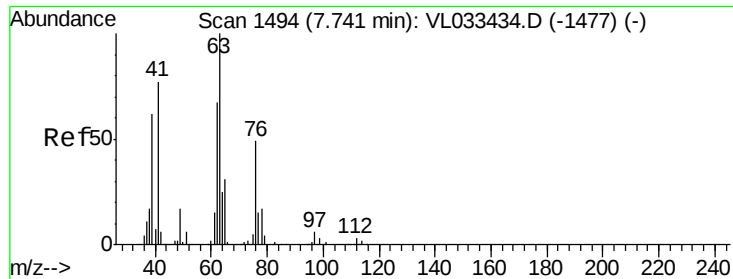
MMDadoda
 4/11/2019 1:02:31 PM



#38
 Trichloroethene
 Concen: 9.356 ppbv
 RT: 7.96 min Scan# 1562
 Delta R.T. -0.00 min
 Lab File: VL033585.D
 Acq: 11 Apr 2019 4:54

Tgt Ion	Ratio	Resp	Lower	Upper
130	100	587056		
95	113.4	89.8	134.8	
132	93.0	76.6	115.0	
97	72.1	58.6	88.0	





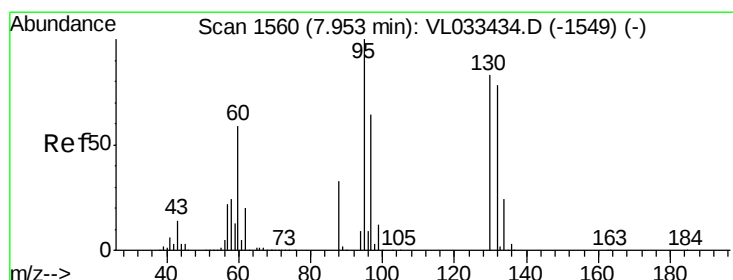
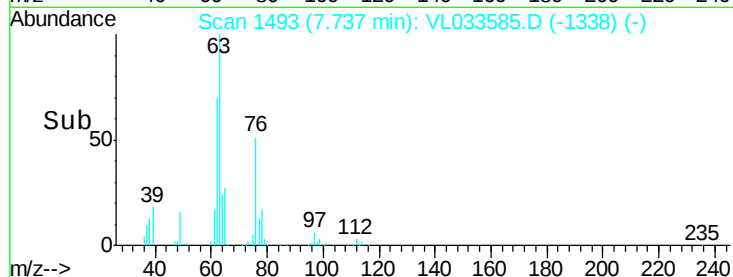
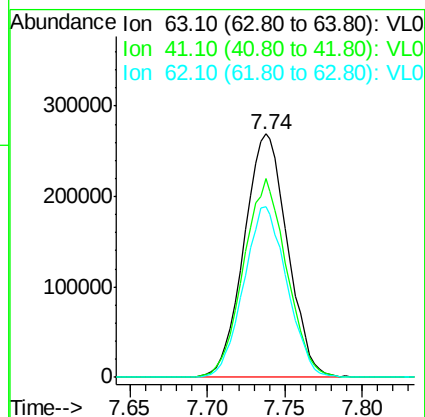
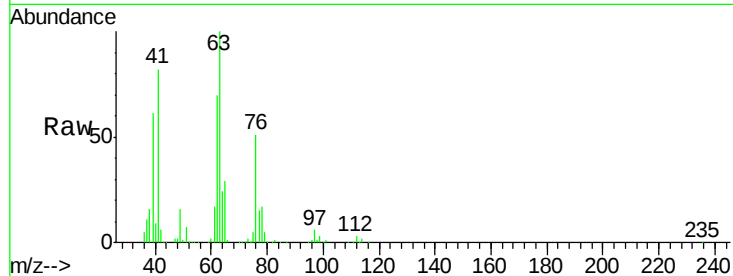
#39
 1,2-Dichloropropane
 Concen: 8.060 ppbv
 RT: 7.74 min Scan# 1493
 Delta R.T. -0.00 min
 Lab File: VL033585.D
 Acq: 11 Apr 2019 4:54

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Resp	Lower	Upper
63	100	526453		
41	81.4	61.2	91.8	
62	70.0	54.0	81.0	

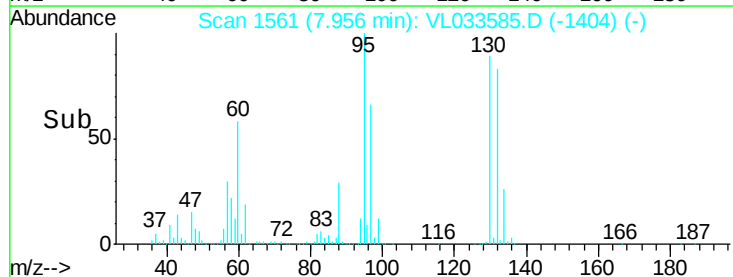
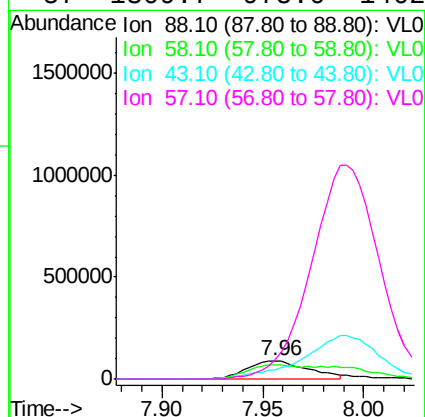
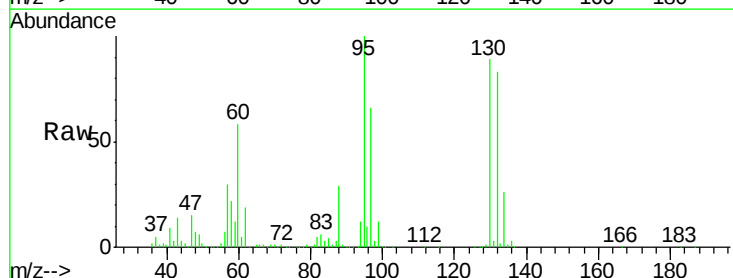
Manual Integrations
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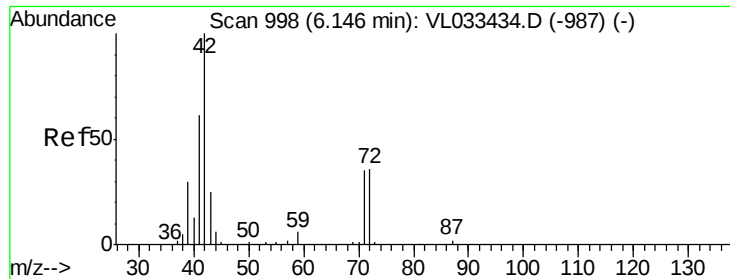
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 4/11/2019 1:02:31 PM



#40
 1,4-Dioxane
 Concen: 8.028 ppbv
 RT: 7.96 min Scan# 1561
 Delta R.T. 0.00 min
 Lab File: VL033585.D
 Acq: 11 Apr 2019 4:54

Tgt Ion	Ratio	Resp	Lower	Upper
88	100	187005		
58	141.4	105.6	158.4	
43	293.3	216.7	325.1	
57	1309.7	975.0	1462.4	





#41

Tetrahydrofuran

Concen: 8.391 ppbv

RT: 6.15 min Scan# 998

Delta R.T. 0.00 min

Lab File: VL033585.D

Acq: 11 Apr 2019 4:54

Instrument :

MSVOA_L

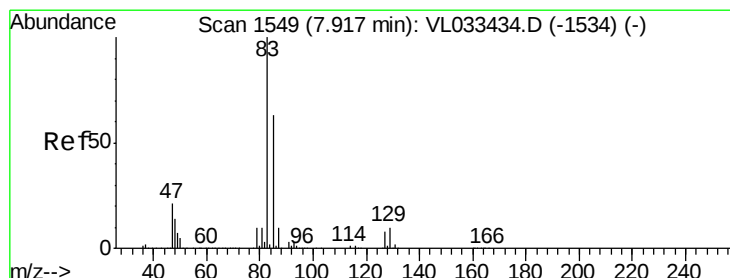
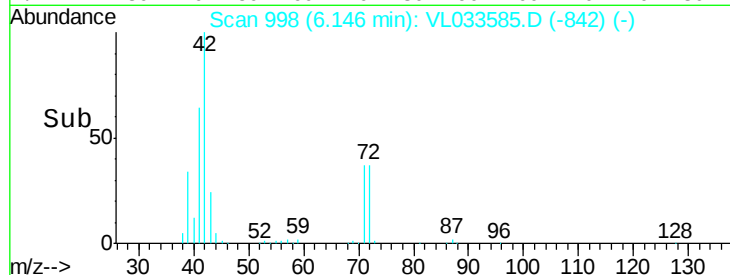
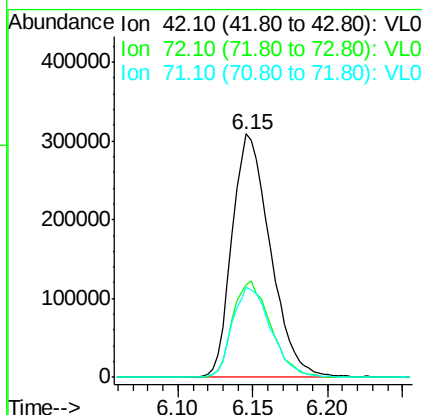
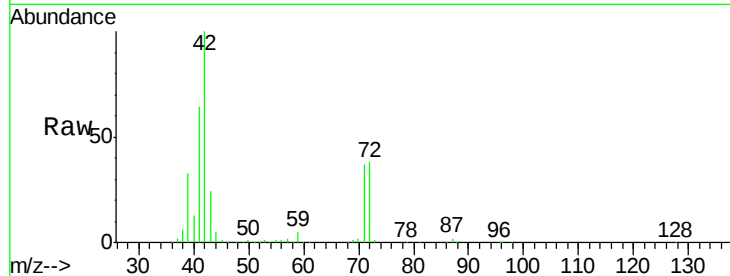
ClientSampleId :

VSTDCCC010EC

Tot Ion:	42	Resp:	551016
Ion Ratio		Lower	Upper
42	100		
72	39.4	30.2	45.2
71	37.6	29.4	44.2

Manual Integrations
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4/11/2019 1:02:31 PM



#42

Bromodichloromethane

Concen: 8.621 ppbv

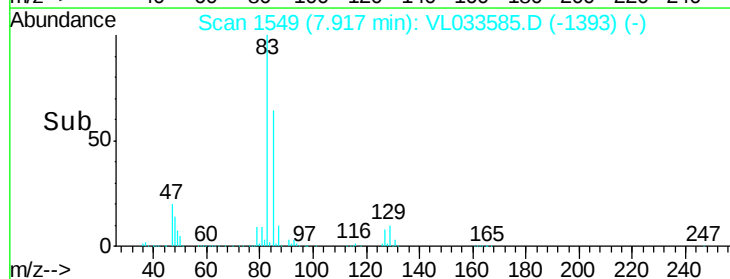
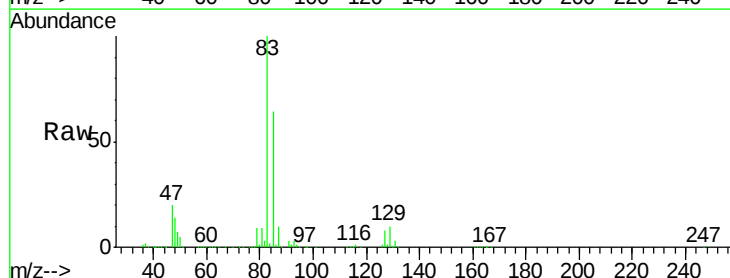
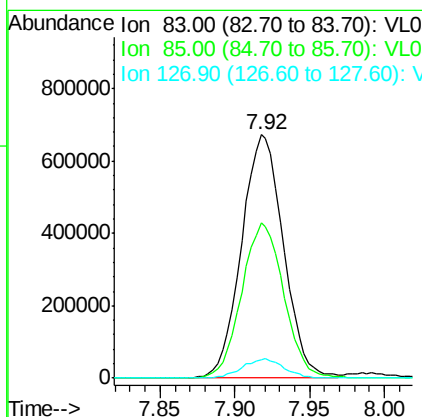
RT: 7.92 min Scan# 1549

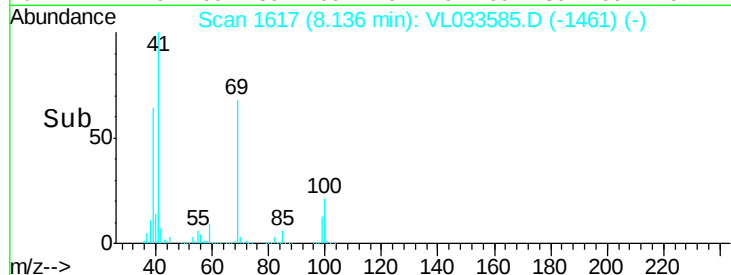
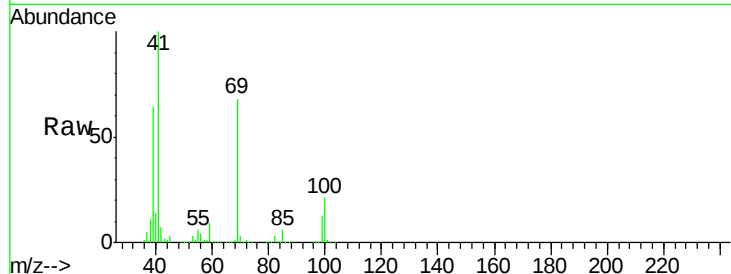
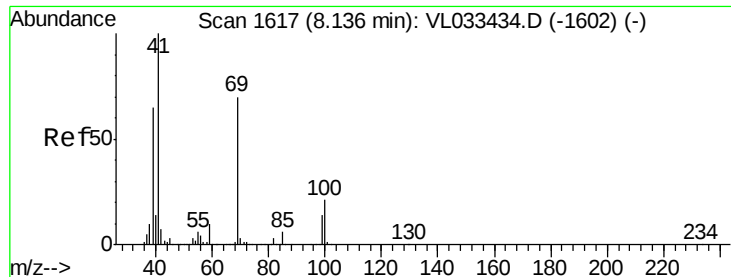
Delta R.T. 0.00 min

Lab File: VL033585.D

Acq: 11 Apr 2019 4:54

Tgt Ion:	83	Resp:	1312174
Ion Ratio		Lower	Upper
83	100		
85	63.8	50.7	76.1
127	7.8	6.6	9.8





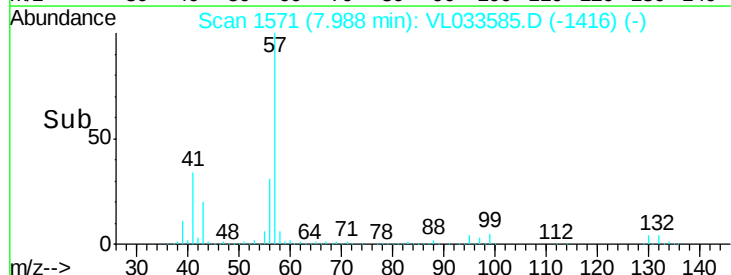
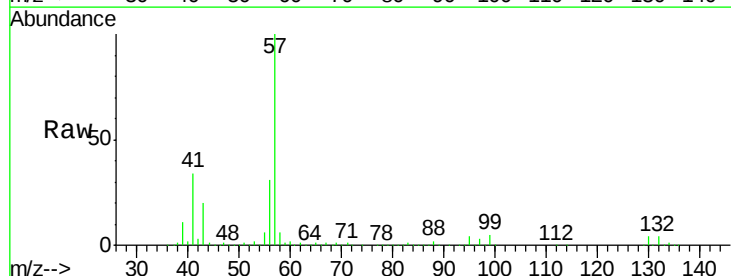
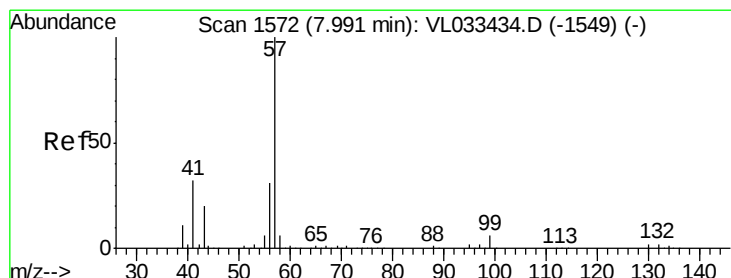
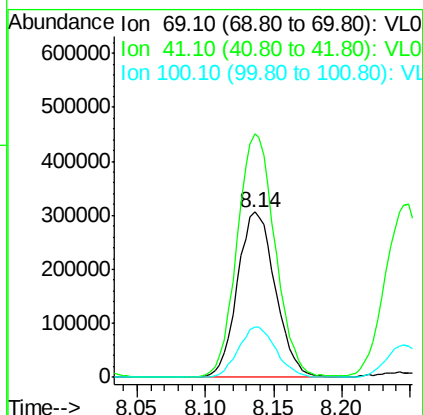
#43
Methvl Methacrylate
Concen: 8.721 ppbv
RT: 8.14 min Scan# 1617
Delta R.T. 0.00 min
Lab File: VL033585.D
Acq: 11 Apr 2019 4:54

Tot Ion	Ratio	Lower	Upper
69	100		
41	147.4	116.6	174.8
100	30.3	24.4	36.6

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

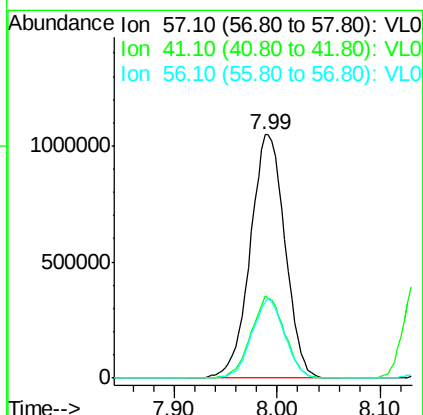
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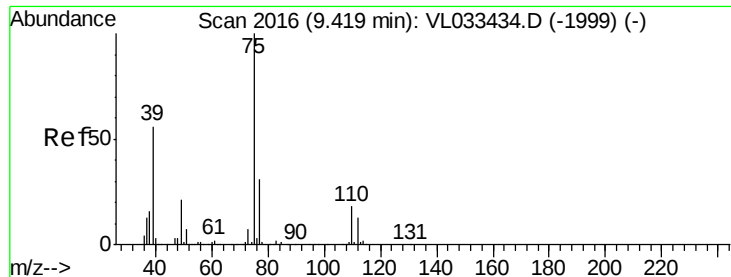
MMDadoda
4/11/2019 1:02:31 PM



#44
2,2,4-Trimethylpentane
Concen: 8.396 ppbv
RT: 7.99 min Scan# 1571
Delta R.T. -0.00 min
Lab File: VL033585.D
Acq: 11 Apr 2019 4:54

Tgt Ion	Ratio	Lower	Upper
57	100		
41	32.6	26.0	39.0
56	30.7	24.6	37.0





#45

t-1,3-Dichloropropene

Concen: 9.758 ppbv

RT: 9.42 min Scan# 2015

Delta R.T. -0.00 min

Lab File: VL033585.D

Acq: 11 Apr 2019 4:54

Tot Ion: 75 Resp: 811063

Ion Ratio Lower Upper

75 100

77 31.6 24.5 36.7

Instrument :

MSVOA_L

ClientSampleId :

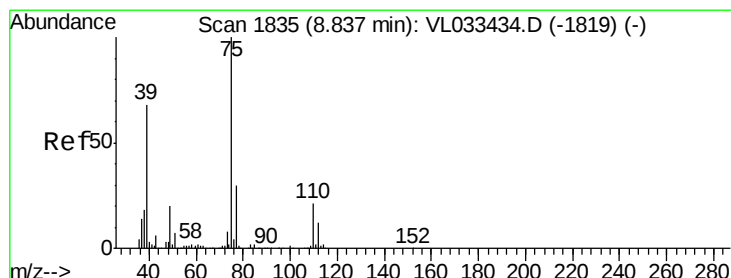
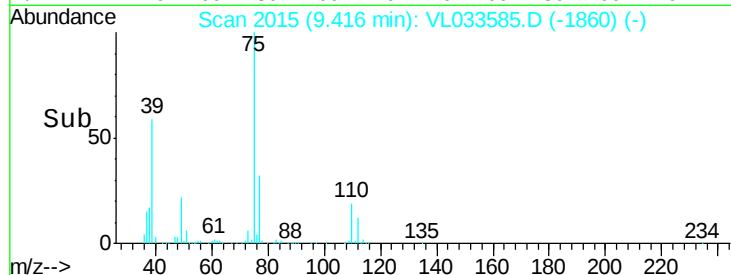
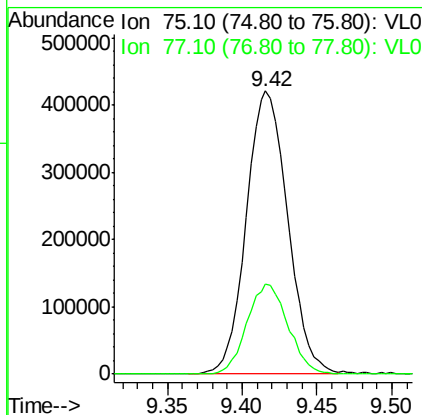
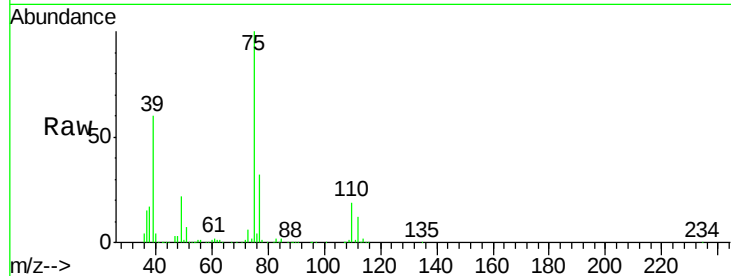
VSTDCCC010EC

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#46

cis-1,3-Dichloropropene

Concen: 9.360 ppbv

RT: 8.84 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VL033585.D

Acq: 11 Apr 2019 4:54

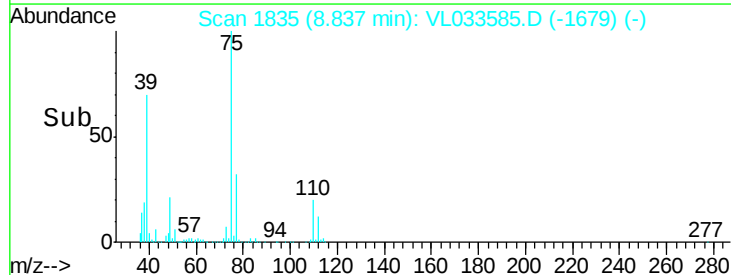
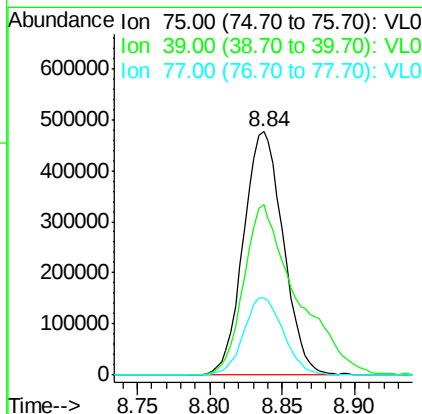
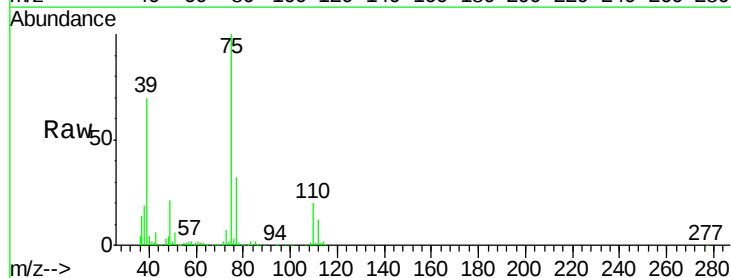
Tgt Ion: 75 Resp: 908529

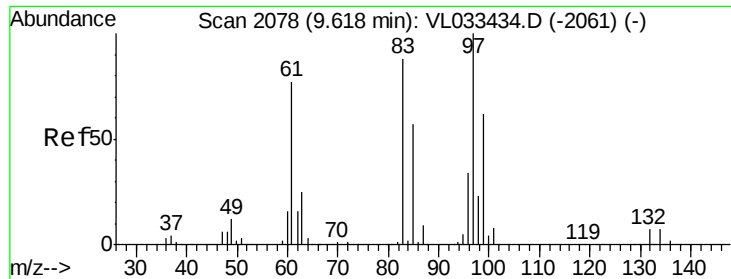
Ion Ratio Lower Upper

75 100

39 70.2 54.1 81.1

77 31.8 23.9 35.9





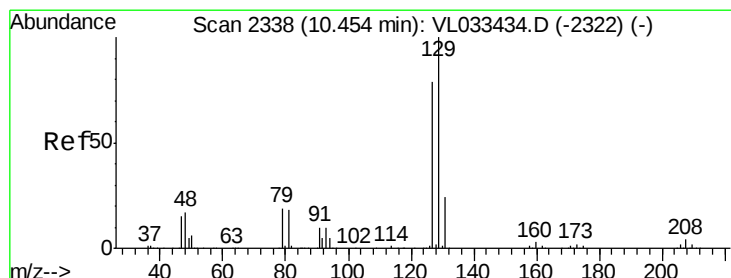
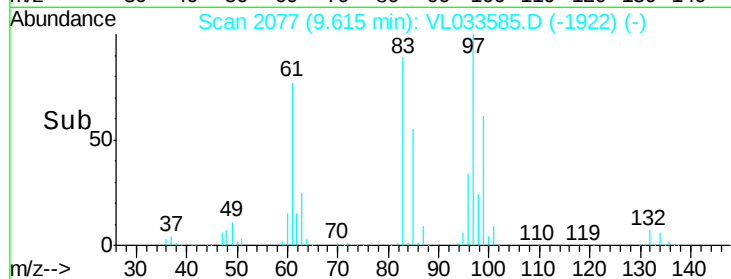
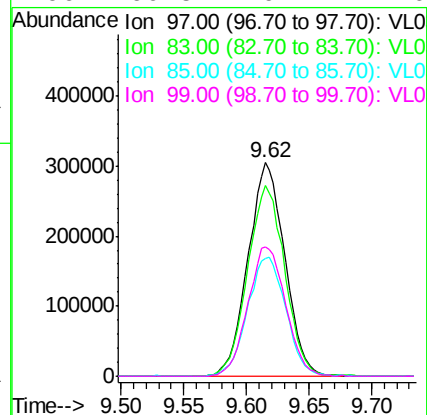
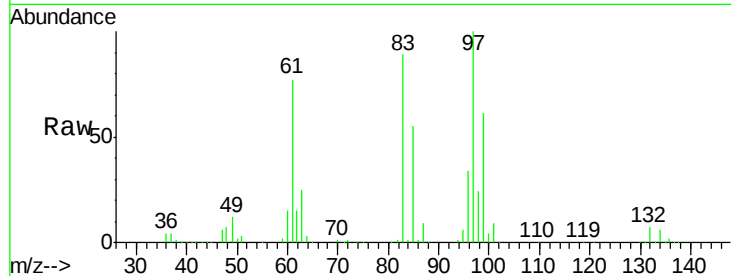
#47
 1,1,2-Trichloroethane
 Concen: 8.396 ppbv
 RT: 9.62 min Scan# 2077
 Delta R.T. -0.00 min
 Lab File: VL033585.D
 Acq: 11 Apr 2019 4:54

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:	97	Resp:	622689
Ion	Ratio	Lower	Upper
97	100		
83	89.3	70.5	105.7
85	54.9	45.6	68.4
99	60.5	49.4	74.0

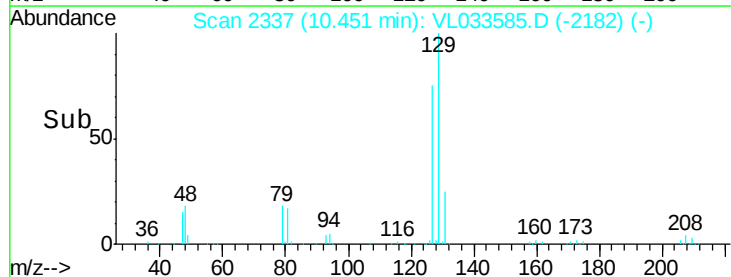
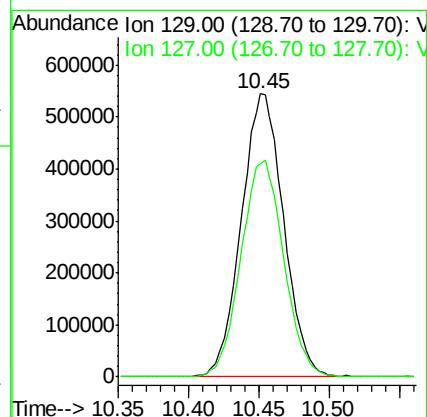
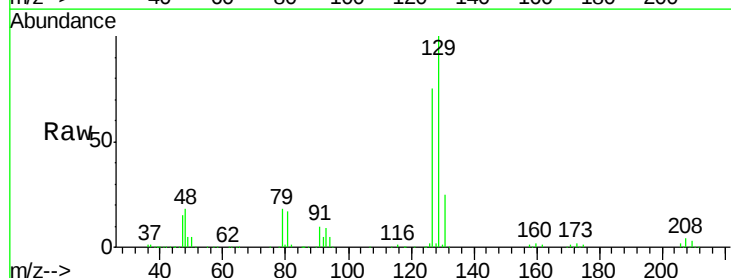
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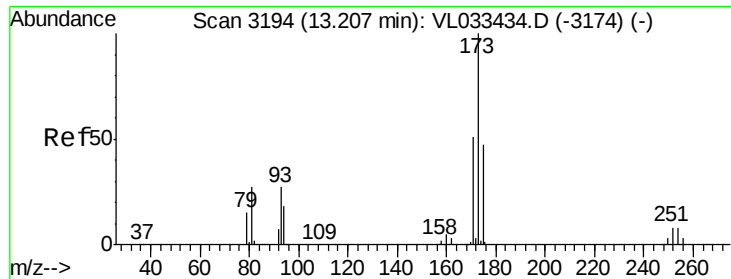
MMDadoda
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#48
 Dibromochloromethane
 Concen: 9.146 ppbv
 RT: 10.45 min Scan# 2337
 Delta R.T. -0.00 min
 Lab File: VL033585.D
 Acq: 11 Apr 2019 4:54

Tgt Ion:	129	Resp:	1144083
Ion	Ratio	Lower	Upper
129	100		
127	77.4	39.1	117.2





#49

Bromoform

Concen: 8.858 ppbv

RT: 13.20 min Scan# 3193

Delta R.T. -0.00 min

Lab File: VL033585.D

Acq: 11 Apr 2019 4:54

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:173 Resp: 1058554

Ion Ratio Lower Upper

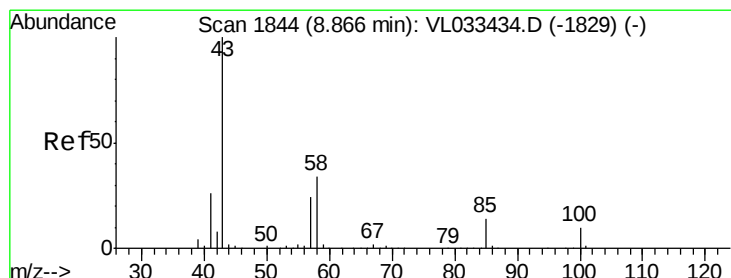
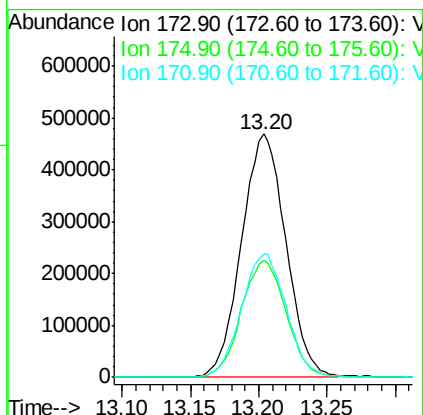
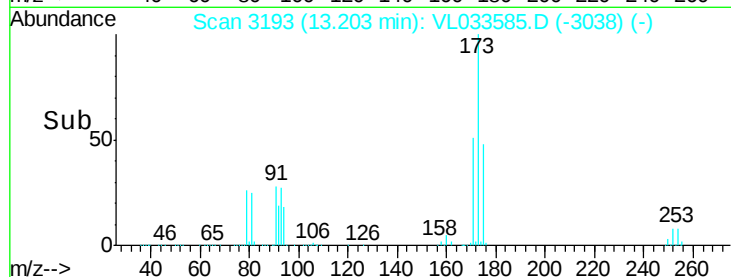
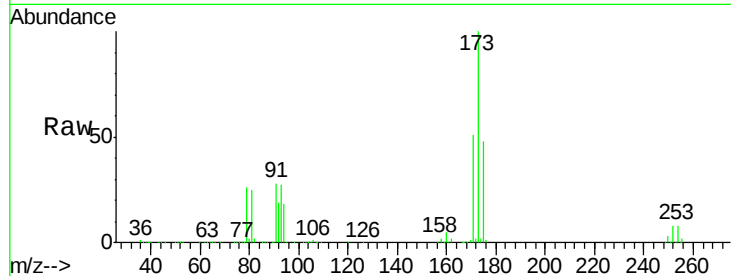
173 100

175 48.7 39.3 58.9

171 51.0 41.2 61.8

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#50

4-Methyl-2-Pentanone

Concen: 8.694 ppbv

RT: 8.87 min Scan# 1845

Delta R.T. 0.00 min

Lab File: VL033585.D

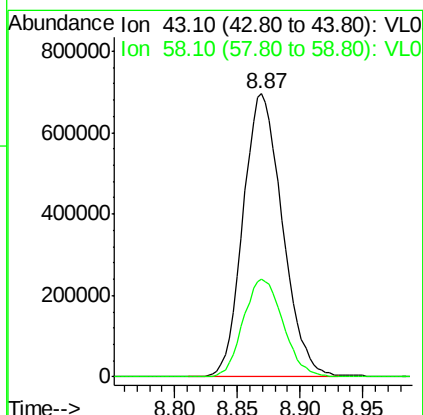
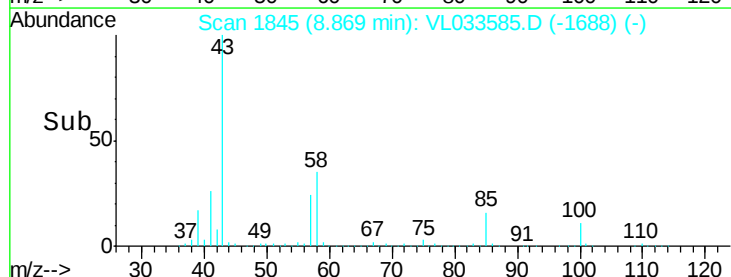
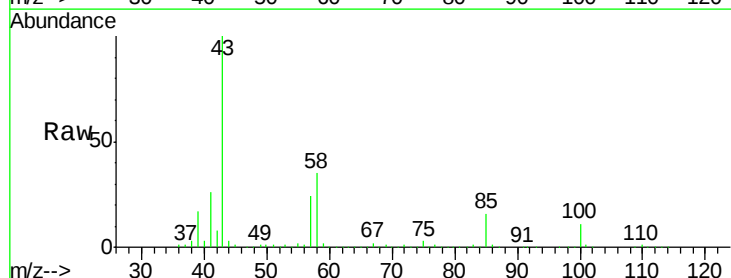
Acq: 11 Apr 2019 4:54

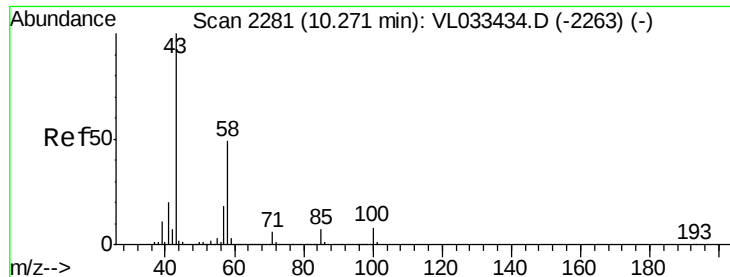
Tgt Ion: 43 Resp: 1519894

Ion Ratio Lower Upper

43 100

58 35.2 28.0 42.0





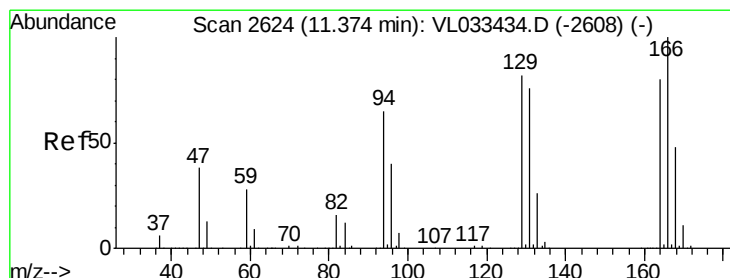
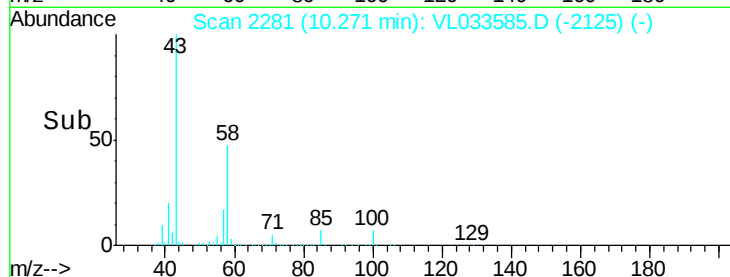
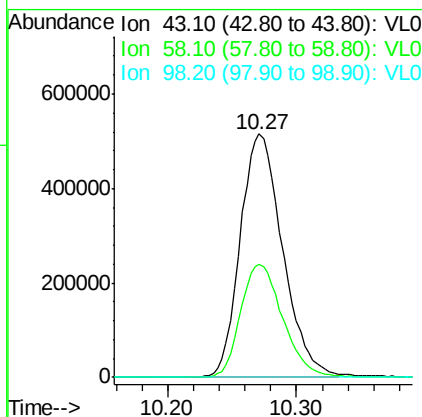
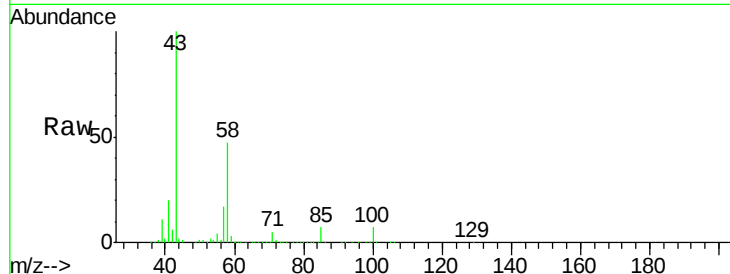
#51
2-Hexanone
Concen: 9.024 ppbv
RT: 10.27 min Scan# 2281
Delta R.T. 0.00 min
Lab File: VL033585.D
Acq: 11 Apr 2019 4:54

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 43 Resp: 1176775
Ion Ratio Lower Upper
43 100
58 46.7 38.2 57.2
98 0.4 0.2 0.2#

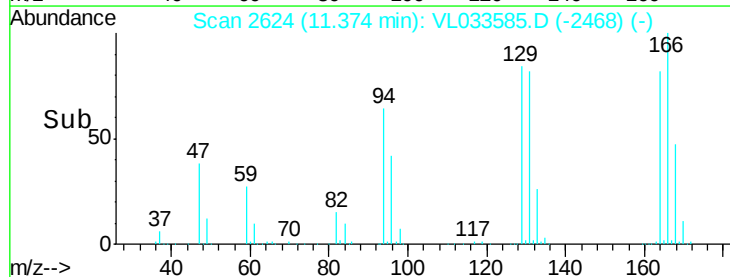
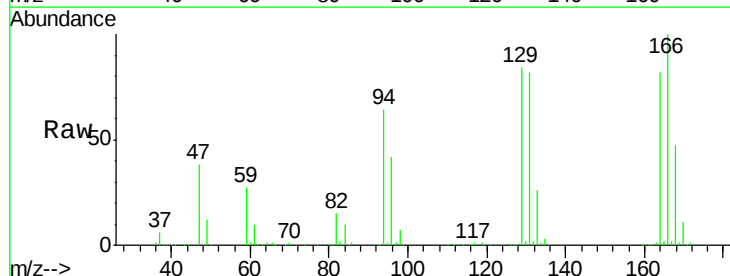
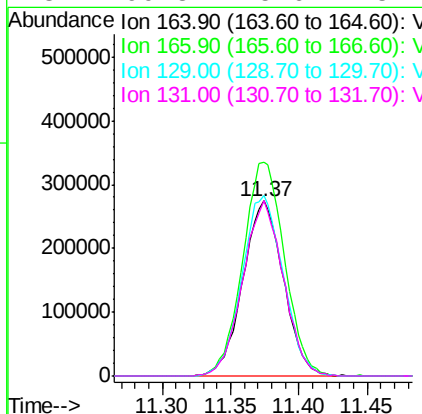
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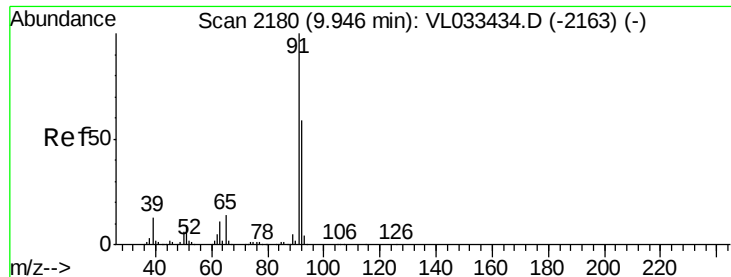
MMDadoda
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#52
Tetrachloroethene
Concen: 8.987 ppbv
RT: 11.37 min Scan# 2624
Delta R.T. 0.00 min
Lab File: VL033585.D
Acq: 11 Apr 2019 4:54

Tgt Ion: 164 Resp: 565365
Ion Ratio Lower Upper
164 100
166 121.7 99.5 149.3
129 102.5 81.4 122.2
131 99.8 75.6 113.4





#53

Toluene

Concen: 8.835 ppbv

RT: 9.95 min Scan# 2180

Delta R.T. 0.00 min

Lab File: VL033585.D

Acq: 11 Apr 2019 4:54

Tot Ion: 91 Resp: 1711809

Ion Ratio Lower Upper

91 100

92 59.2 47.4 71.0

Instrument :

MSVOA_L

ClientSampleId :

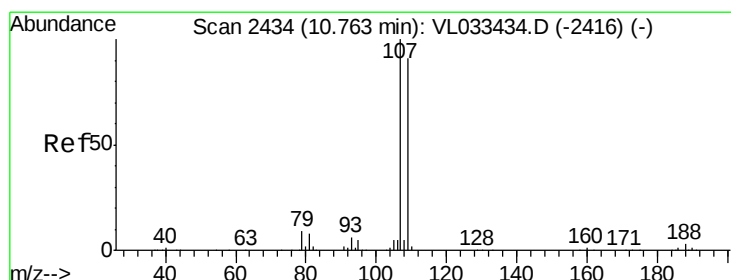
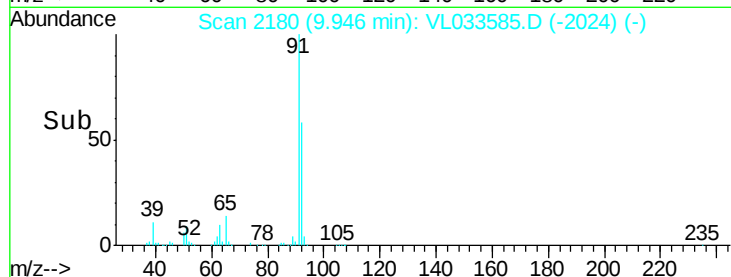
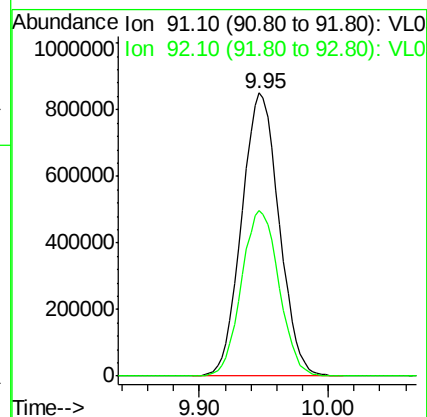
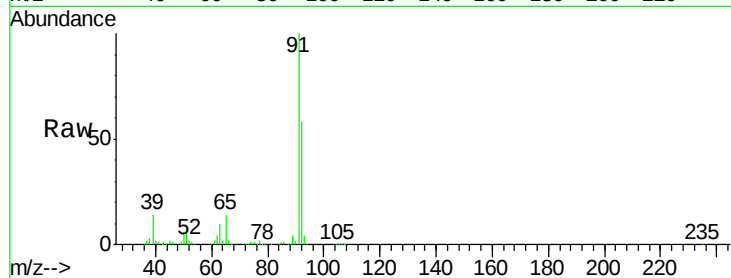
VSTDCCC010EC

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#54

1,2-Dibromoethane

Concen: 8.558 ppbv

RT: 10.76 min Scan# 2433

Delta R.T. -0.00 min

Lab File: VL033585.D

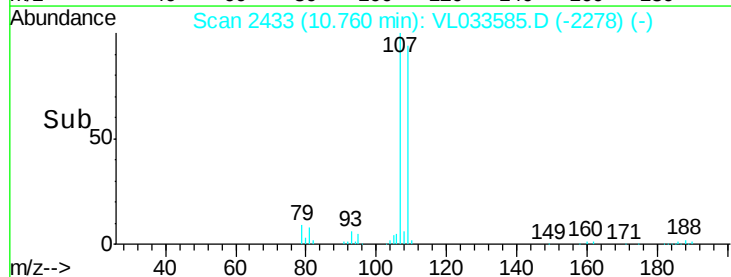
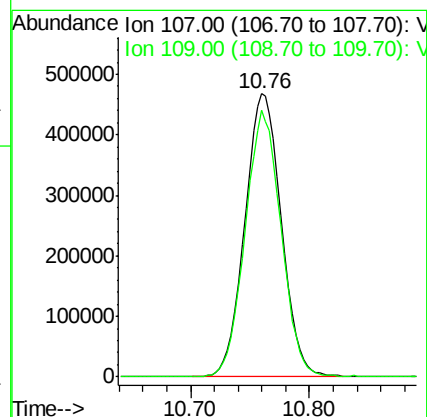
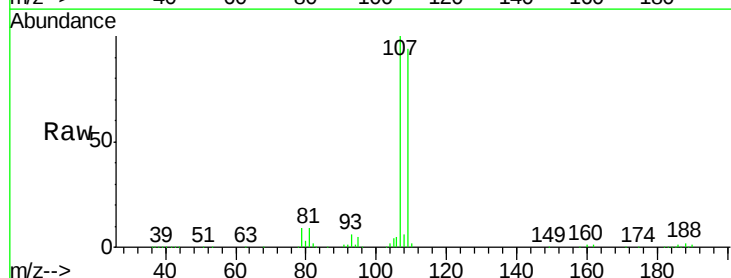
Acq: 11 Apr 2019 4:54

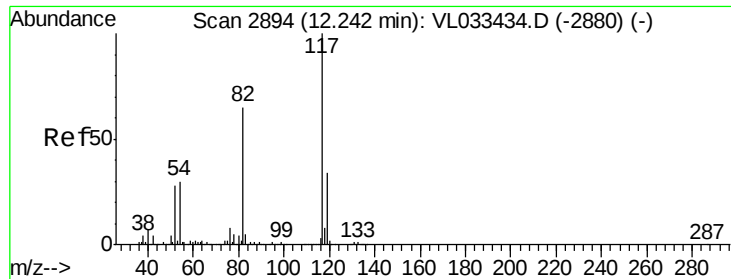
Tgt Ion: 107 Resp: 992808

Ion Ratio Lower Upper

107 100

109 94.4 72.7 109.1





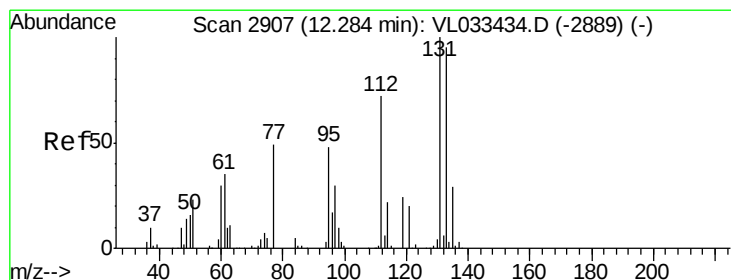
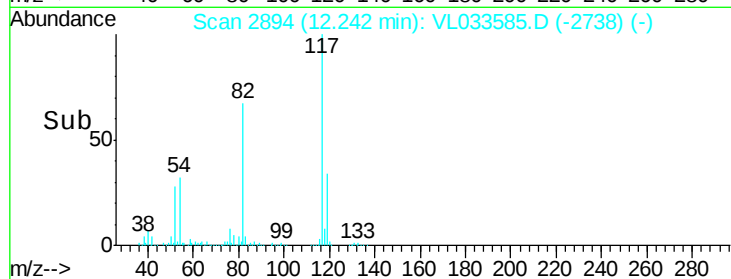
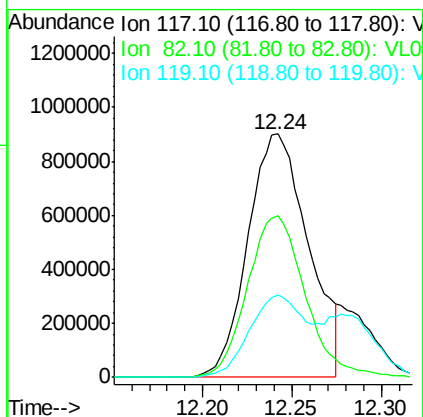
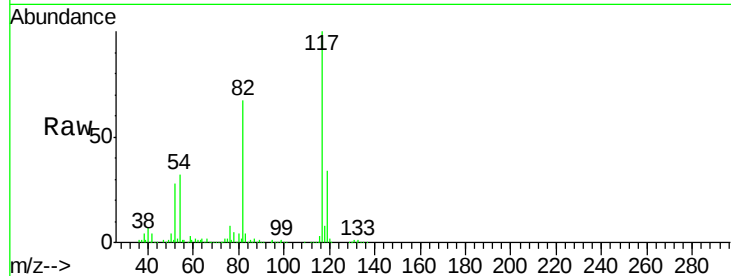
#55
Chlorobenzene-d5
Concen: 10.000 ppbv m
RT: 12.24 min Scan# 2894
Delta R.T. 0.00 min
Lab File: VL033585.D
Acq: 11 Apr 2019 4:54

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
117	100		
82	64.1	51.5	77.3
119	53.7	25.5	38.3#

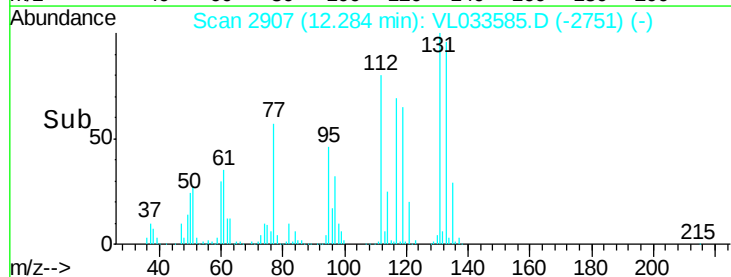
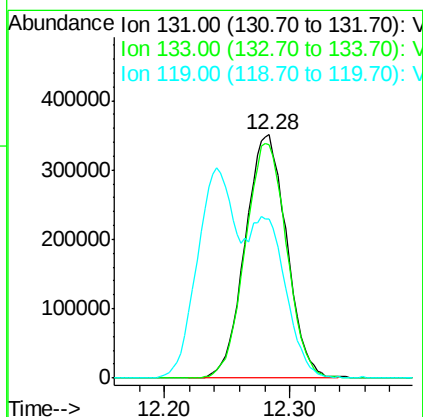
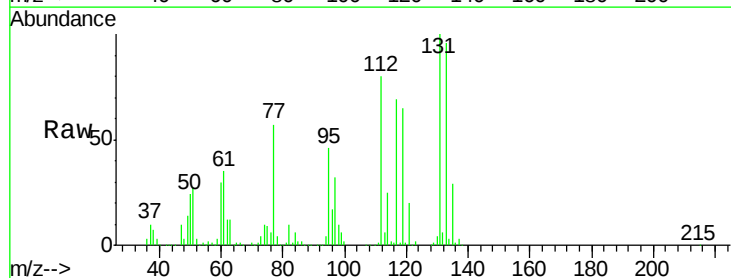
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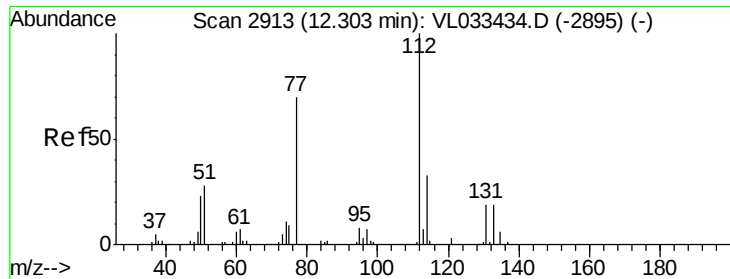
MMDadoda
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#56
1,1,1,2-Tetrachloroethane
Concen: 8.248 ppbv
RT: 12.28 min Scan# 2907
Delta R.T. 0.00 min
Lab File: VL033585.D
Acq: 11 Apr 2019 4:54

Tgt Ion	Ratio	Lower	Upper
131	100		
133	96.4	76.2	114.4
119	142.3	45.0	67.6#





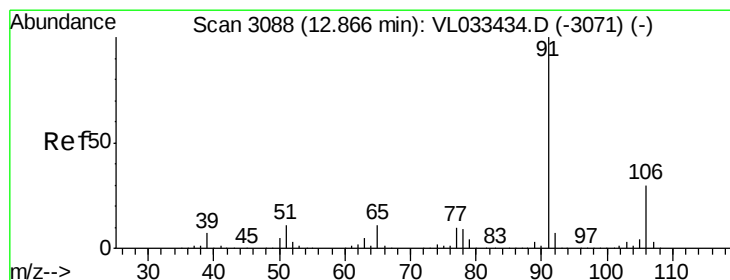
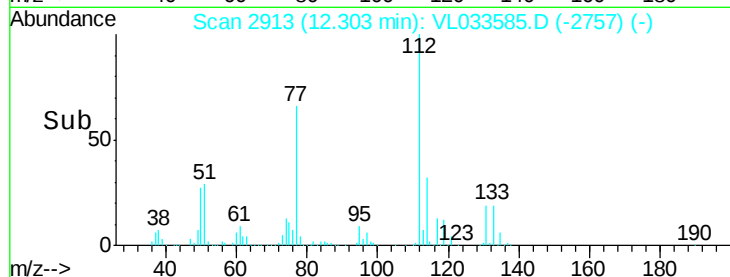
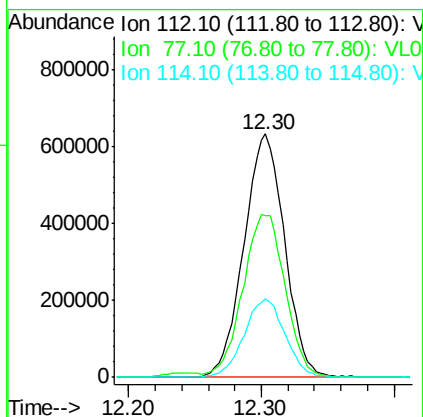
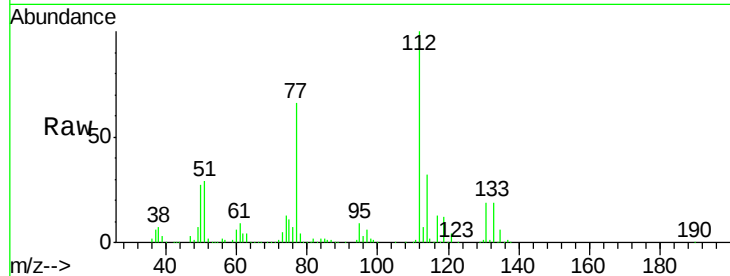
#57
Chlorobenzene
Concen: 8.177 ppbv
RT: 12.30 min Scan# 2913
Delta R.T. 0.00 min
Lab File: VL033585.D
Acq: 11 Apr 2019 4:54

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
112	100		
77	66.1	57.3	85.9
114	32.1	29.8	36.4

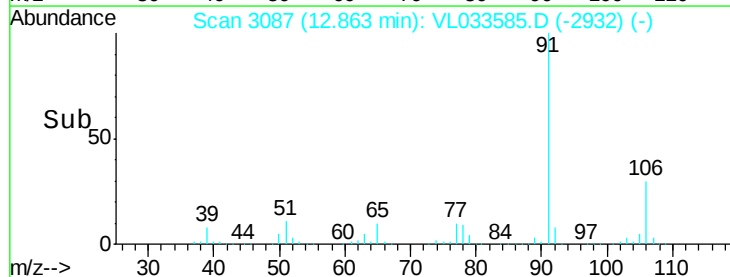
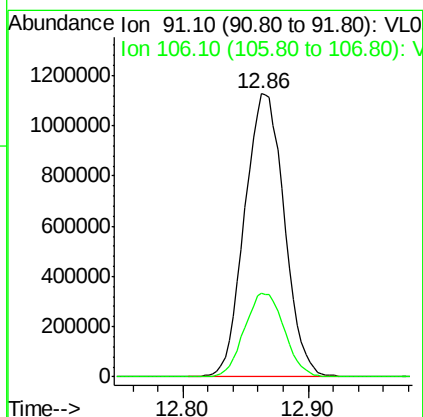
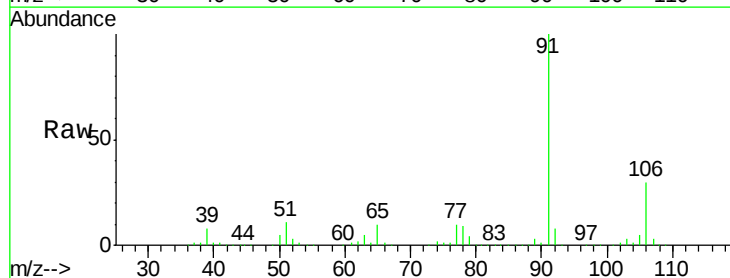
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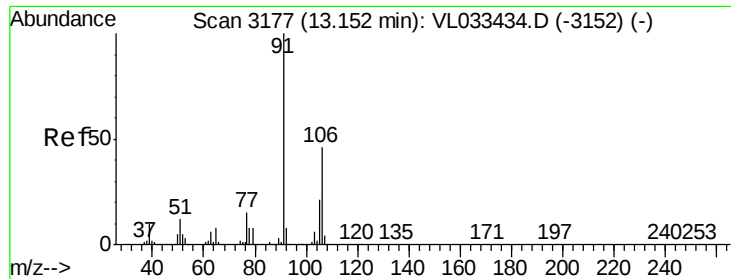
MMDadoda
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#58
Ethyl Benzene
Concen: 8.745 ppbv
RT: 12.86 min Scan# 3087
Delta R.T. -0.00 min
Lab File: VL033585.D
Acq: 11 Apr 2019 4:54

Tgt Ion	Ratio	Lower	Upper
91	100		
106	29.6	23.8	35.6





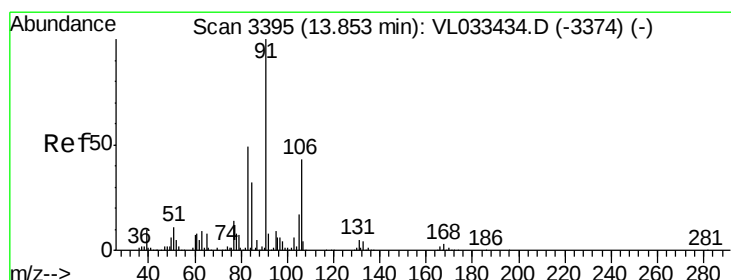
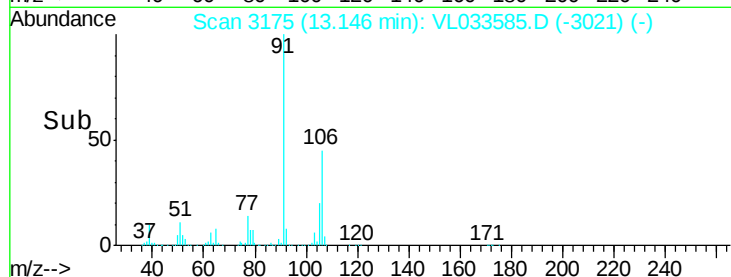
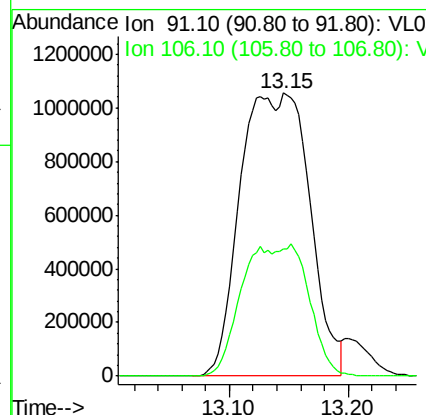
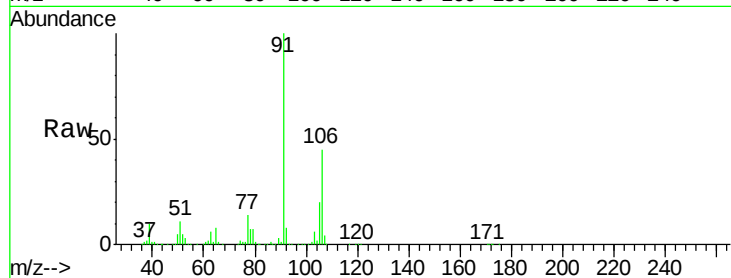
#59
m/p-Xylene
Concen: 16.826 ppbv m
RT: 13.15 min Scan# 3175
Delta R.T. -0.01 min
Lab File: VL033585.D
Acq: 11 Apr 2019 4:54

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 91 Resp: 4260154
Ion Ratio Lower Upper
91 100
106 44.5 0.0 0.0#

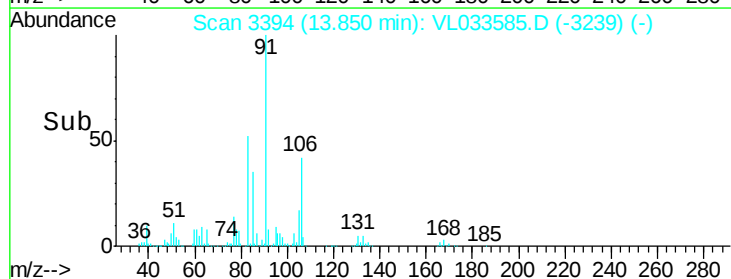
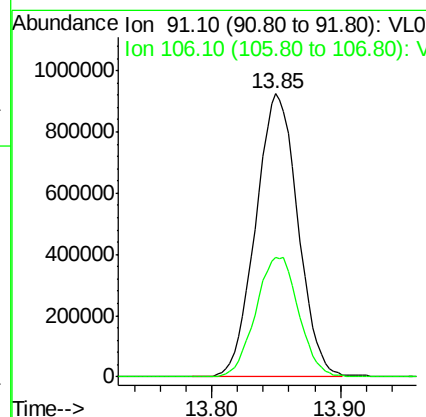
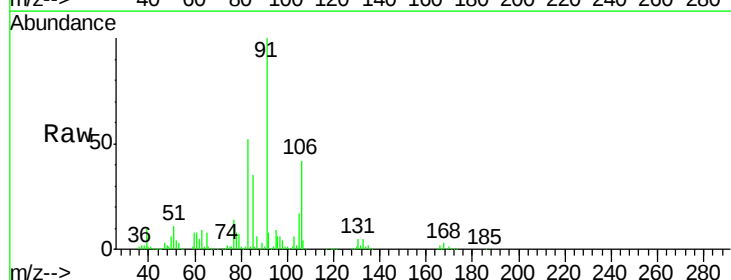
Manual Integrations
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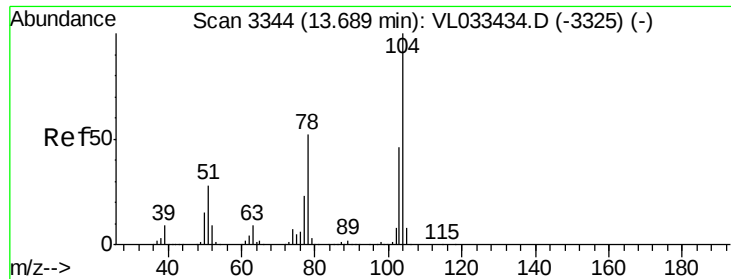
MMDadoda
4/11/2019 1:02:31 PM



#60
o-Xylene
Concen: 8.593 ppbv
RT: 13.85 min Scan# 3394
Delta R.T. -0.00 min
Lab File: VL033585.D
Acq: 11 Apr 2019 4:54

Tgt Ion: 91 Resp: 2103811
Ion Ratio Lower Upper
91 100
106 43.1 21.4 64.3





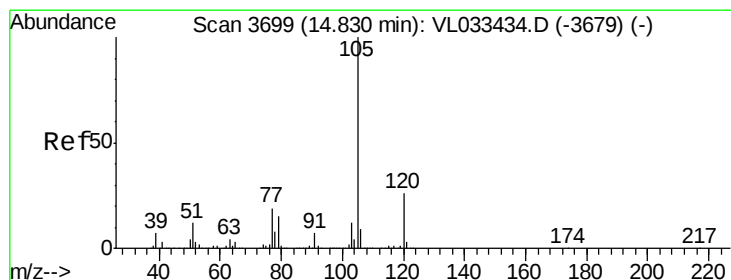
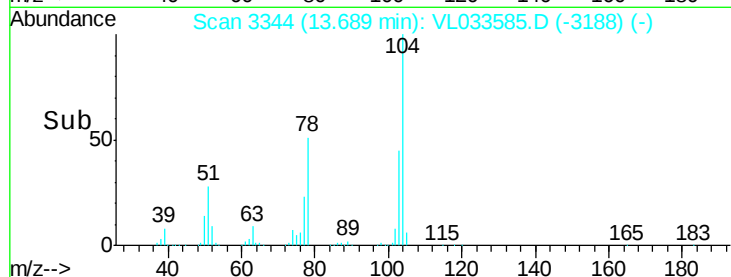
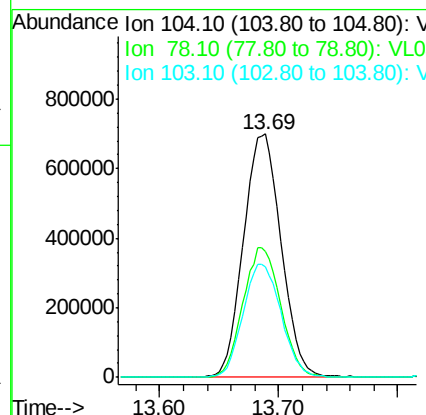
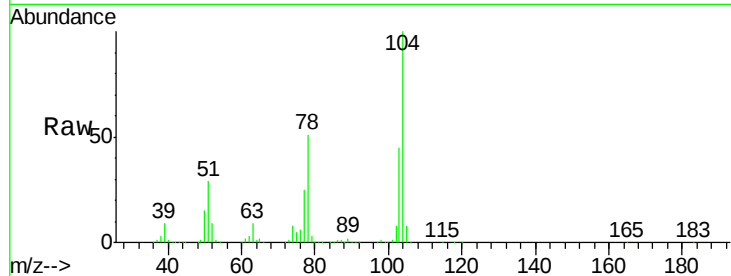
#61
Stvrene
Concen: 9.135 ppbv
RT: 13.69 min Scan# 3344
Delta R.T. 0.00 min
Lab File: VL033585.D
Acq: 11 Apr 2019 4:54

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
104	100		
78	53.6	43.2	64.8
103	47.2	37.8	56.8

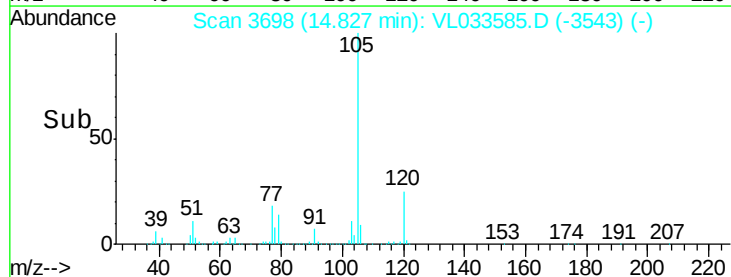
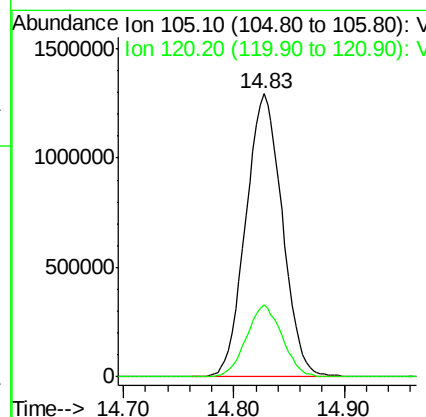
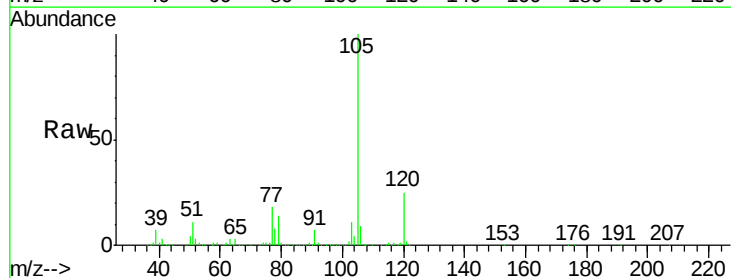
Manual Integrations
APPROVED

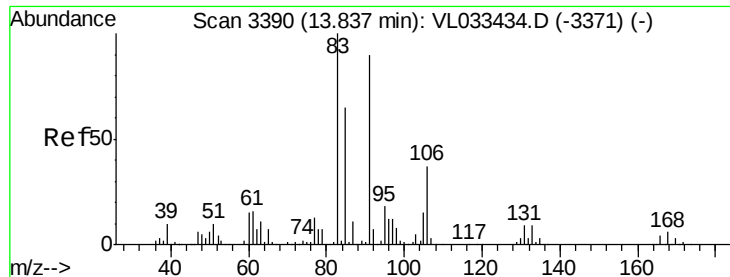
MMDadoda
4/11/2019 1:02:31 PM



#62
Isopropylbenzene
Concen: 8.555 ppbv
RT: 14.83 min Scan# 3698
Delta R.T. -0.00 min
Lab File: VL033585.D
Acq: 11 Apr 2019 4:54

Tgt Ion	Ratio	Lower	Upper
105	100		
120	24.9	20.2	30.2





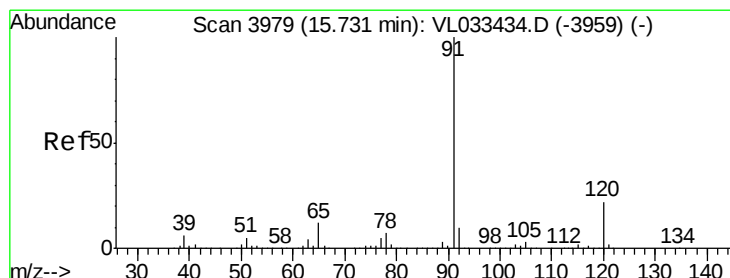
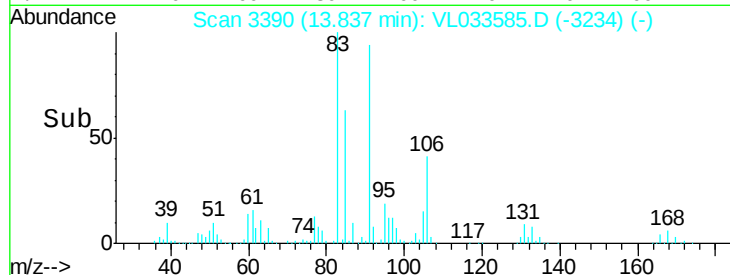
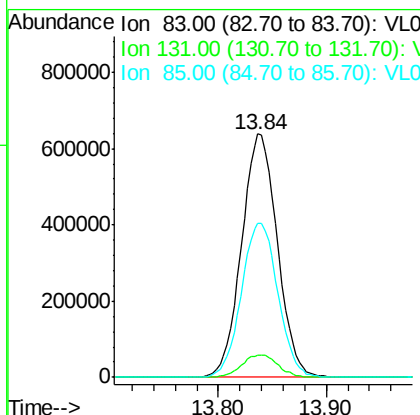
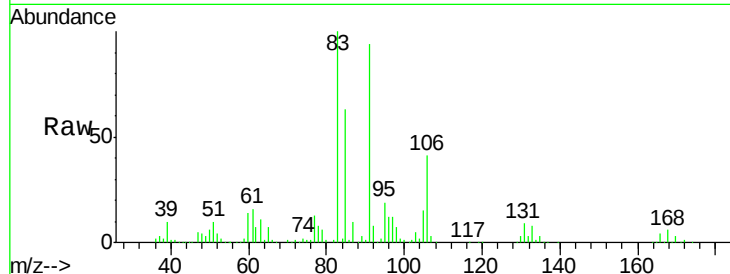
#63
 1,1,2,2-Tetrachloroethane
 Concen: 8.156 ppbv
 RT: 13.84 min Scan# 3390
 Delta R.T. 0.00 min
 Lab File: VL033585.D
 Acq: 11 Apr 2019 4:54

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion: 83 Resp: 1470260
 Ion Ratio Lower Upper
 83 100
 131 9.4 4.7 14.0
 85 64.8 32.7 98.1

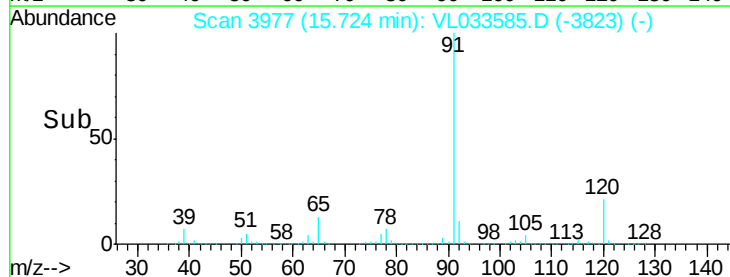
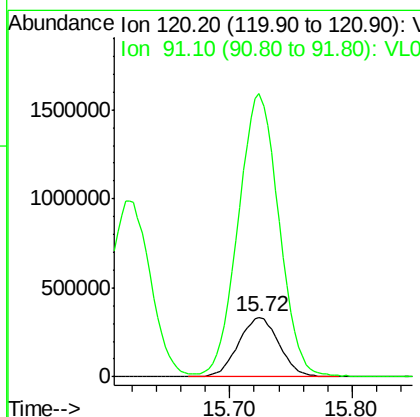
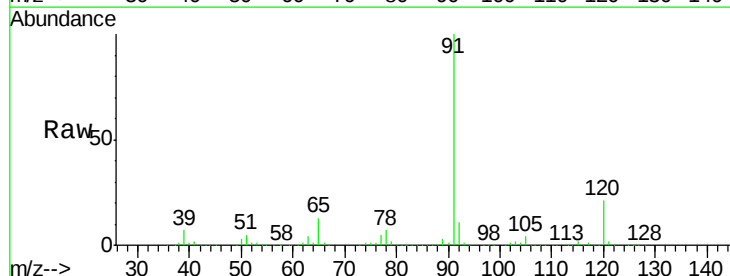
Manual Integrations
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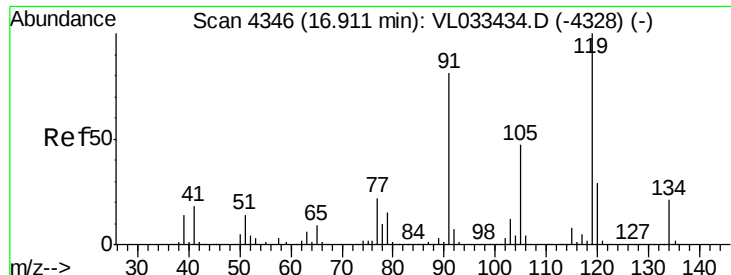
MMDadoda
 4/11/2019 1:02:31 PM



#64
 n-propylbenzene
 Concen: 8.700 ppbv
 RT: 15.72 min Scan# 3977
 Delta R.T. -0.01 min
 Lab File: VL033585.D
 Acq: 11 Apr 2019 4:54

Tgt Ion: 120 Resp: 765418
 Ion Ratio Lower Upper
 120 100
 91 480.9 387.4 581.2





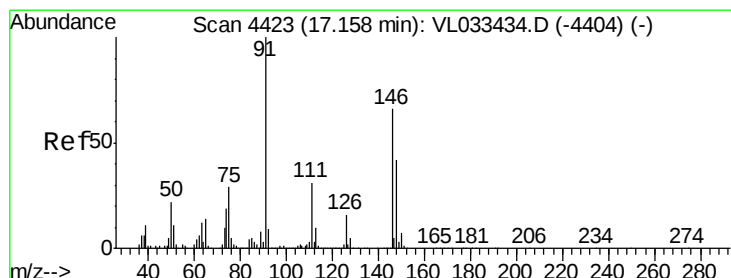
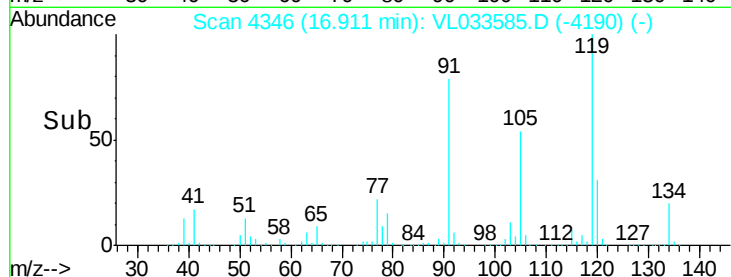
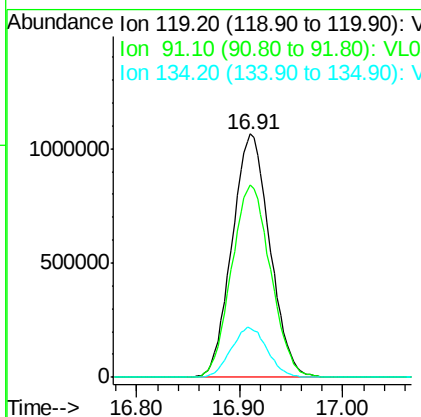
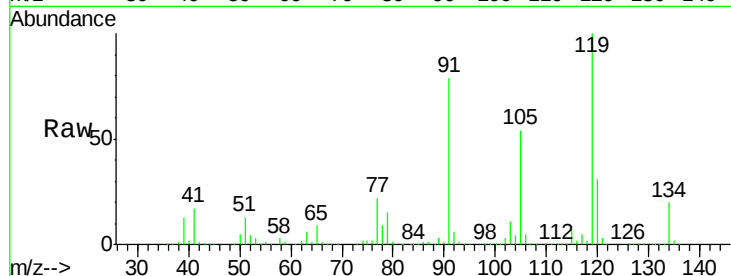
#65
tert-Butylbenzene
Concen: 8.887 ppbv
RT: 16.91 min Scan# 4346
Delta R.T. 0.00 min
Lab File: VL033585.D
Acq: 11 Apr 2019 4:54

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 119 Resp: 2715037
Ion Ratio Lower Upper
119 100
91 81.7 66.4 99.6
134 19.7 15.5 23.3

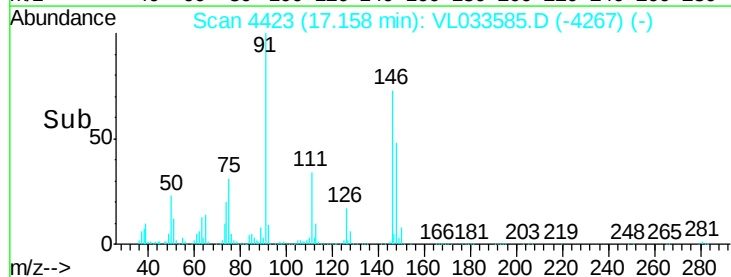
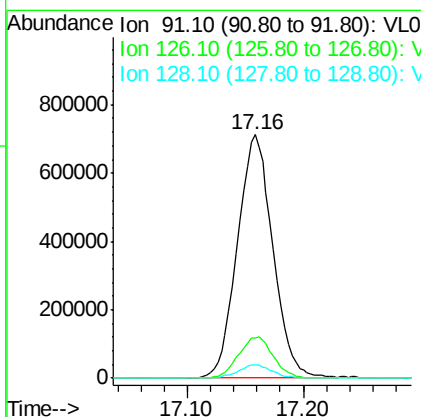
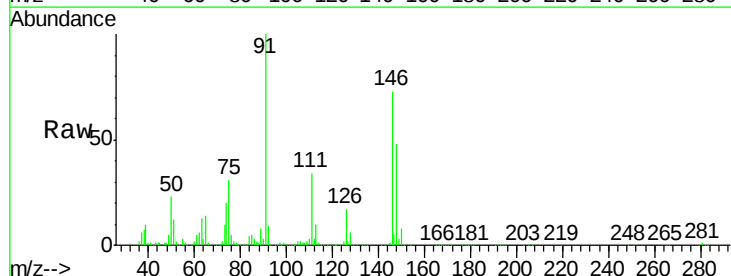
Manual Integrations
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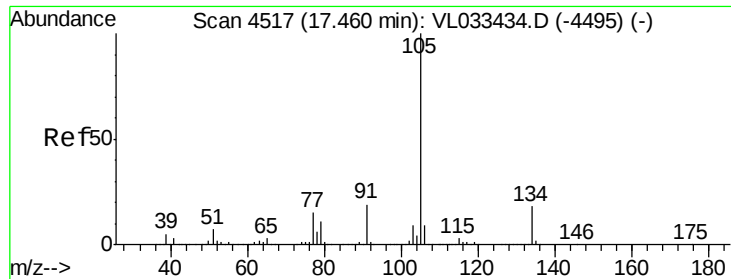
MMDadoda
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#66
Benzyl Chloride
Concen: 10.632 ppbv
RT: 17.16 min Scan# 4423
Delta R.T. 0.00 min
Lab File: VL033585.D
Acq: 11 Apr 2019 4:54

Tgt Ion: 91 Resp: 1510418
Ion Ratio Lower Upper
91 100
126 16.7 13.0 19.6
128 5.4 4.2 6.2





#67

sec-Butylbenzene

Concen: 8.844 ppbv

RT: 17.46 min Scan# 4517

Delta R.T. 0.00 min

Lab File: VL033585.D

Acq: 11 Apr 2019 4:54

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:105 Resp: 3842730

Ion Ratio Lower Upper

105 100

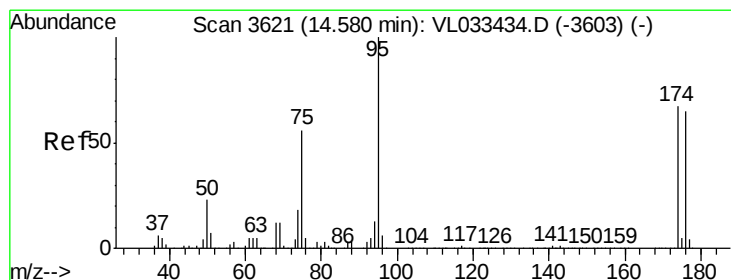
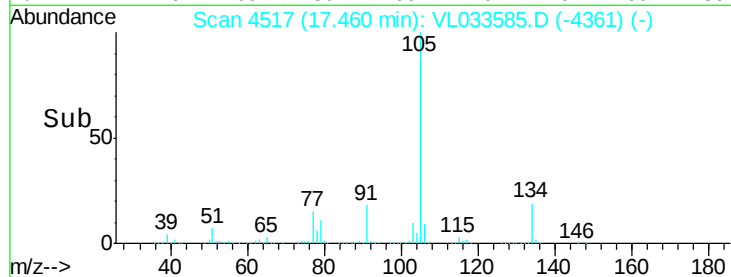
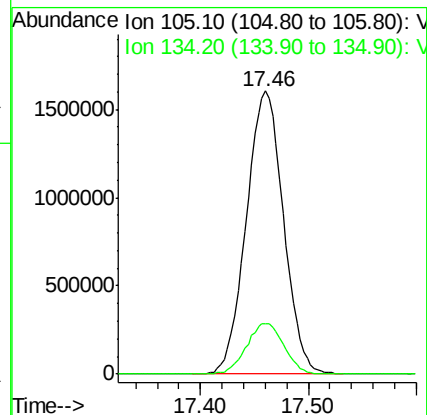
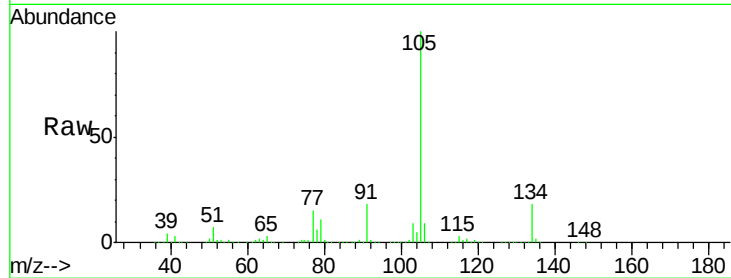
134 18.1 14.6 21.8

Manual Integrations

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#68

1-Bromo-4-Fluorobenzene

Concen: 9.949 ppbv

RT: 14.58 min Scan# 3620

Delta R.T. -0.00 min

Lab File: VL033585.D

Acq: 11 Apr 2019 4:54

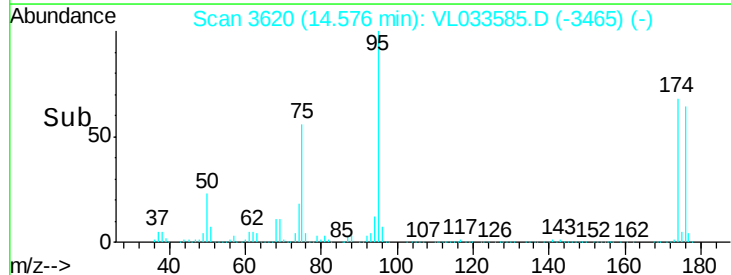
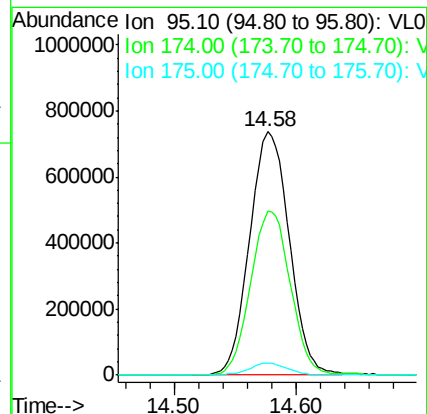
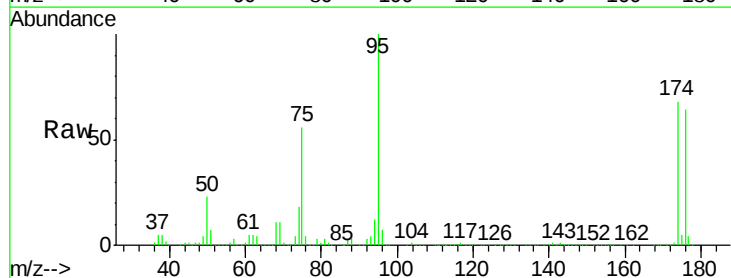
Tgt Ion: 95 Resp: 1655527

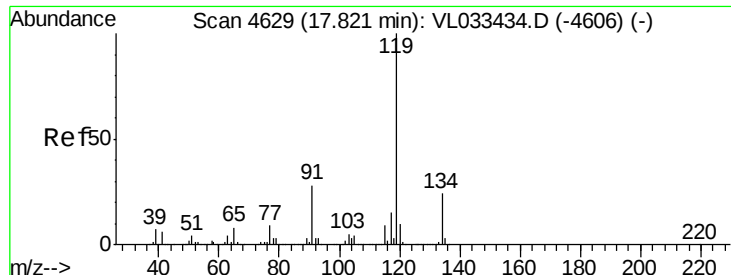
Ion Ratio Lower Upper

95 100

174 67.9 52.9 79.3

175 4.9 3.8 5.6





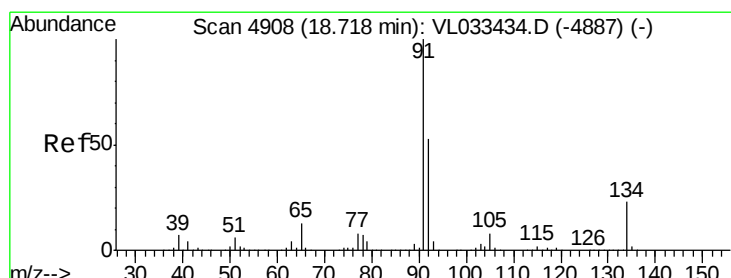
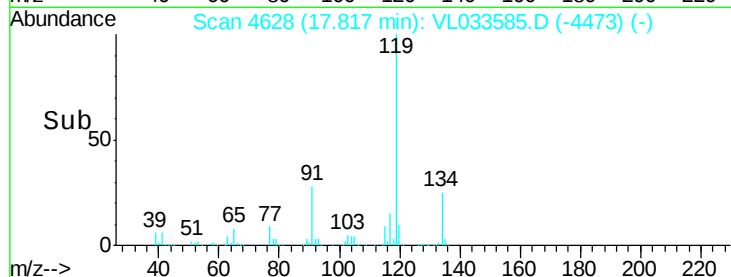
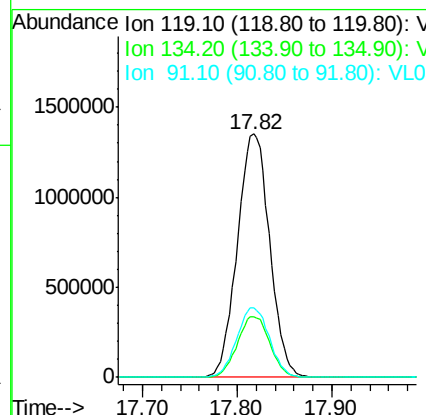
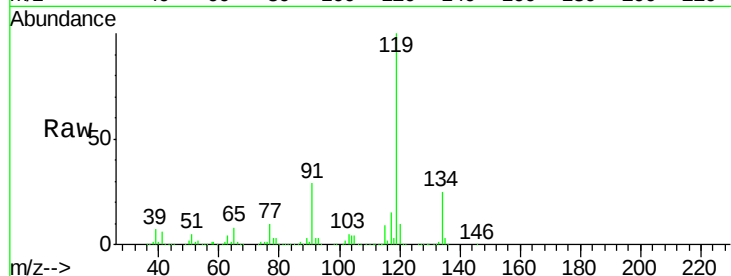
#69
p-Isopropyltoluene
Concen: 9.056 ppbv
RT: 17.82 min Scan# 4628
Delta R.T. -0.00 min
Lab File: VL033585.D
Acq: 11 Apr 2019 4:54

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.2	19.9	29.9
91	28.9	23.4	35.0

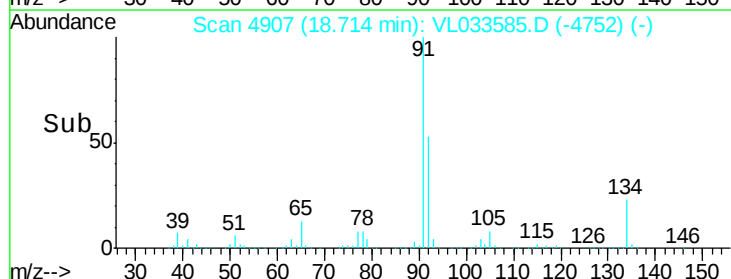
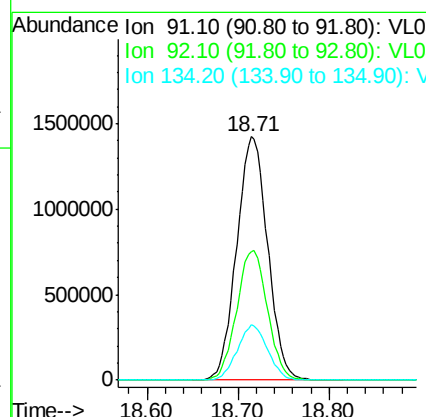
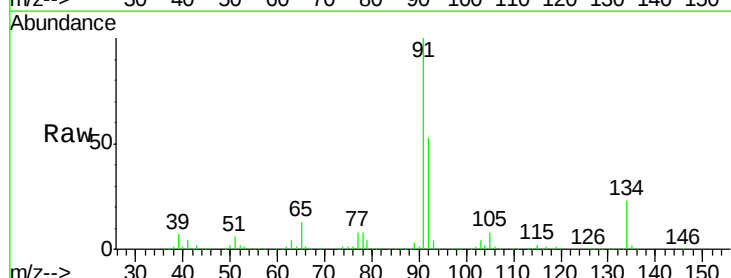
Manual Integrations
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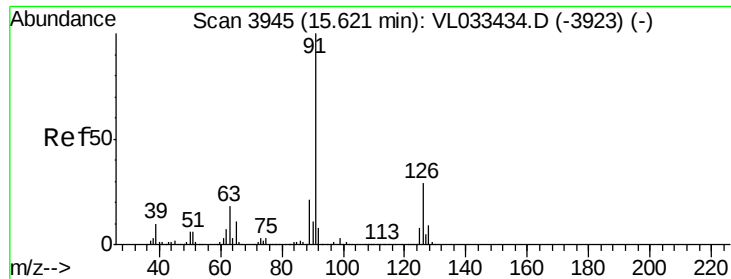
MMDadoda
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#70
n-Butylbenzene
Concen: 8.933 ppbv
RT: 18.71 min Scan# 4907
Delta R.T. -0.00 min
Lab File: VL033585.D
Acq: 11 Apr 2019 4:54

Tgt Ion	Ratio	Lower	Upper
91	100		
92	53.3	42.6	64.0
134	22.1	17.5	26.3





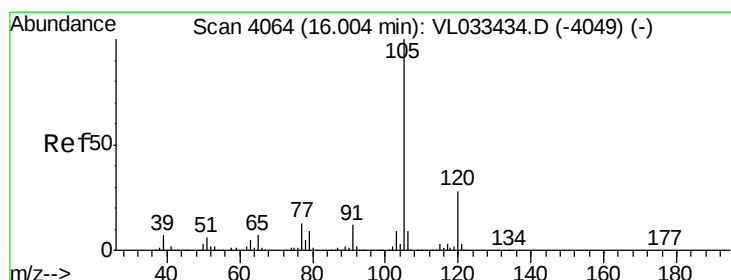
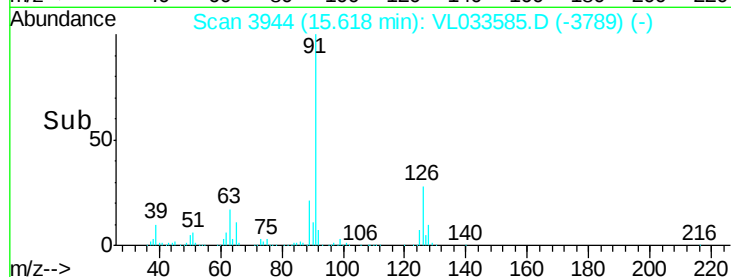
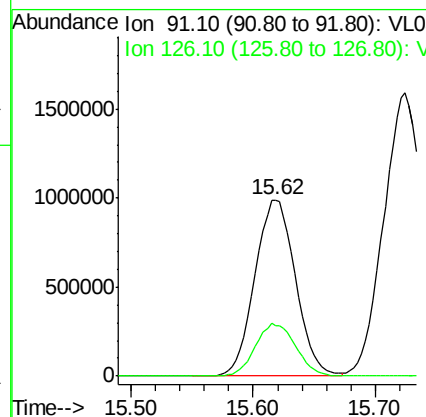
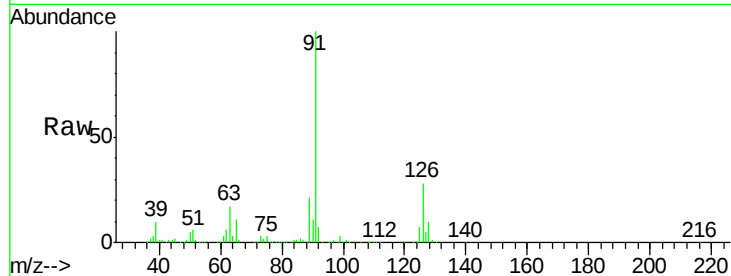
#71
 2-Chlorotoluene
 Concen: 8.638 ppbv
 RT: 15.62 min Scan# 3944
 Delta R.T. -0.00 min
 Lab File: VL033585.D
 Acq: 11 Apr 2019 4:54

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion: 91 Resp: 2277285
 Ion Ratio Lower Upper
 91 100
 126 29.8 11.7 46.9

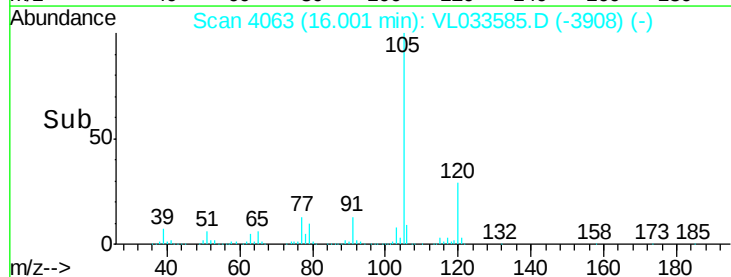
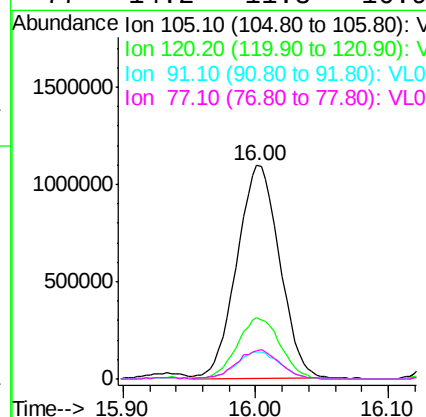
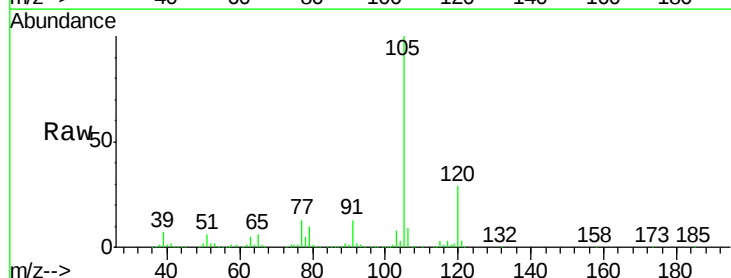
Manual Integrations
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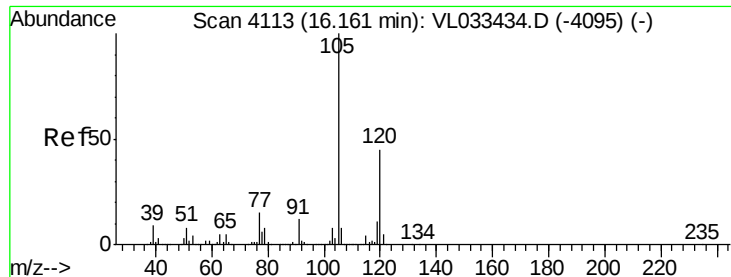
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#72
 4-Ethyltoluene
 Concen: 8.919 ppbv
 RT: 16.00 min Scan# 4063
 Delta R.T. -0.00 min
 Lab File: VL033585.D
 Acq: 11 Apr 2019 4:54

Tgt Ion: 105 Resp: 2454646
 Ion Ratio Lower Upper
 105 100
 120 29.0 23.2 34.8
 91 13.3 10.4 15.6
 77 14.2 11.3 16.9





#73

1,3,5-Trimethylbenzene

Concen: 9.078 ppbv

RT: 16.16 min Scan# 4112

Delta R.T. -0.00 min

Lab File: VL033585.D

Acq: 11 Apr 2019 4:54

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:105 Resp: 2390844

Ion Ratio Lower Upper

105 100

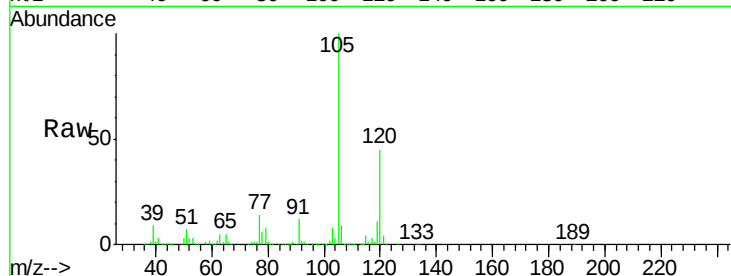
120 44.6 35.7 53.5

Manual Integrations

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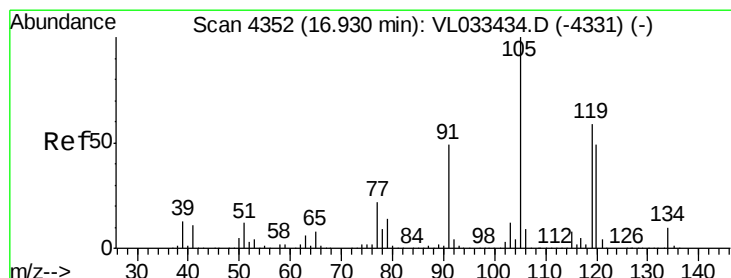
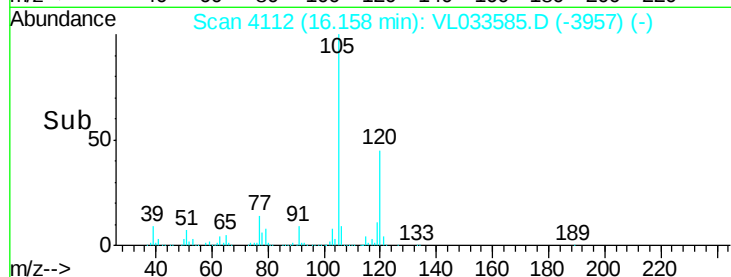
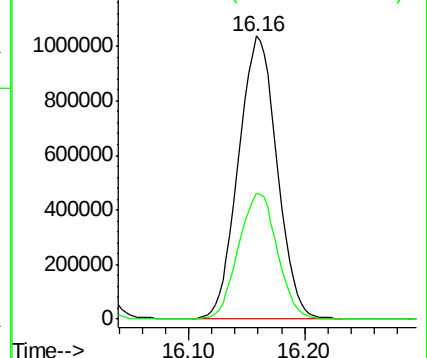
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 8.847 ppbv

RT: 16.93 min Scan# 4351

Delta R.T. -0.00 min

Lab File: VL033585.D

Acq: 11 Apr 2019 4:54

Tgt Ion:105 Resp: 2497367

Ion Ratio Lower Upper

105 100

120 48.3 39.0 58.6

91 50.0 40.0 60.0

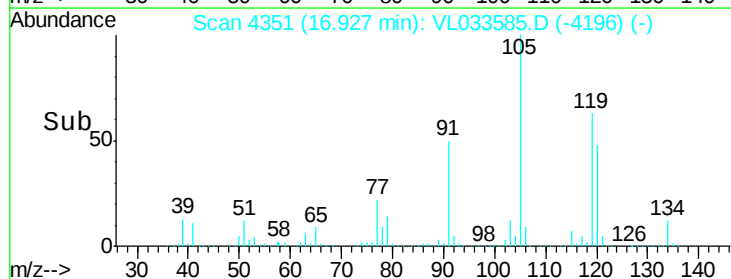
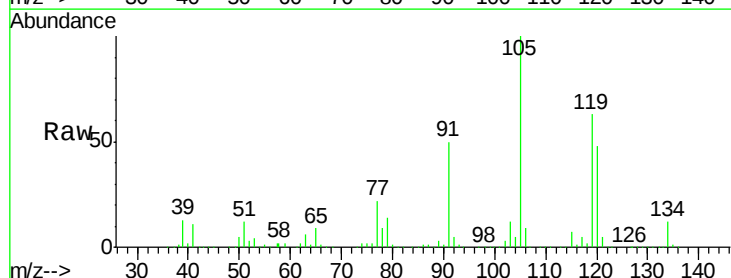
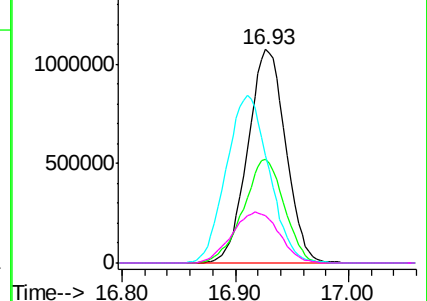
77 21.9 17.5 26.3

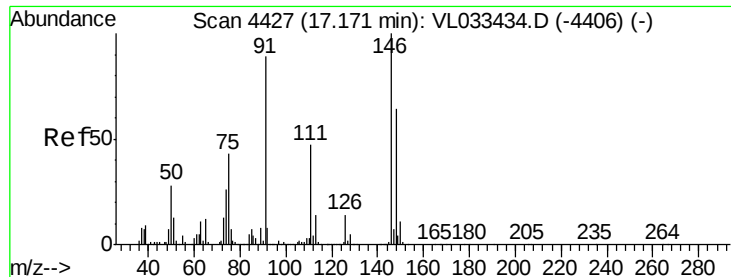
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#75

1,3-Dichlorobenzene

Concen: 8.482 ppbv

RT: 17.17 min Scan# 4426

Delta R.T. -0.00 min

Lab File: VL033585.D

Acq: 11 Apr 2019 4:54

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:146 Resp: 1479870

Ion Ratio Lower Upper

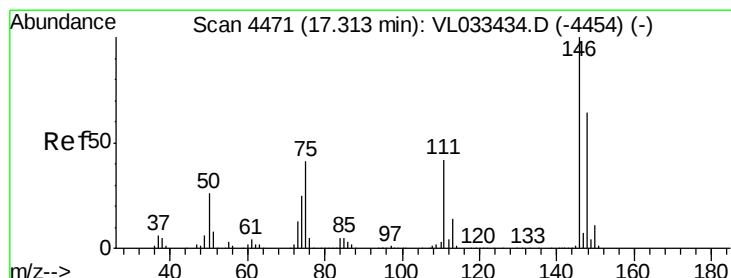
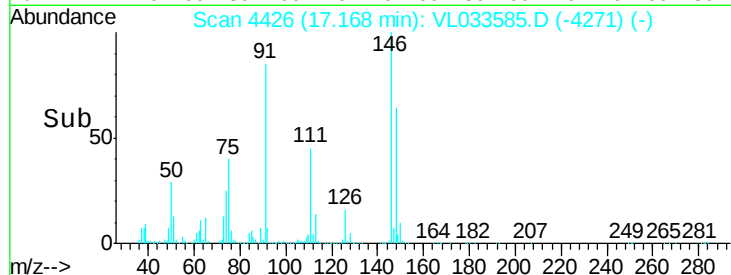
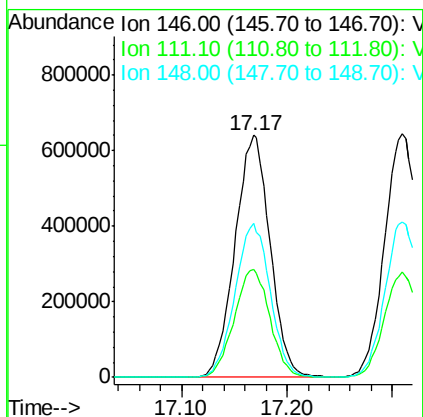
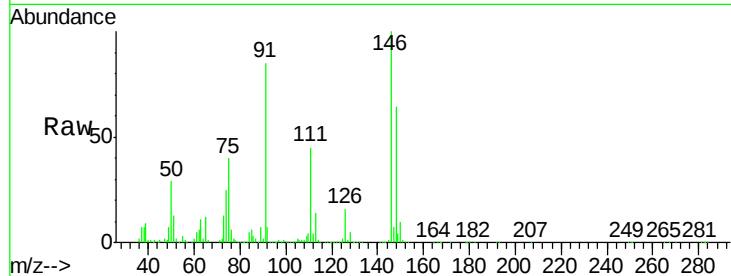
146 100

111 45.4 22.9 68.8

148 64.0 32.0 96.2

Manual Integrations
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#76

1,4-Dichlorobenzene

Concen: 8.722 ppbv

RT: 17.31 min Scan# 4470

Delta R.T. -0.00 min

Lab File: VL033585.D

Acq: 11 Apr 2019 4:54

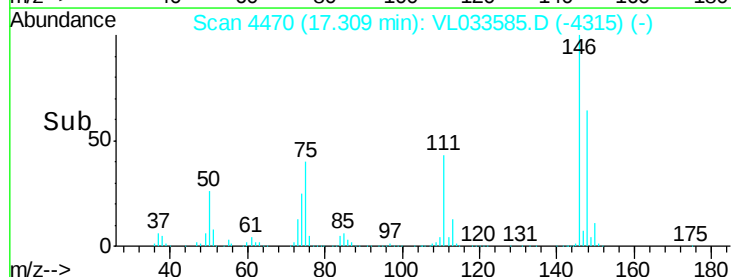
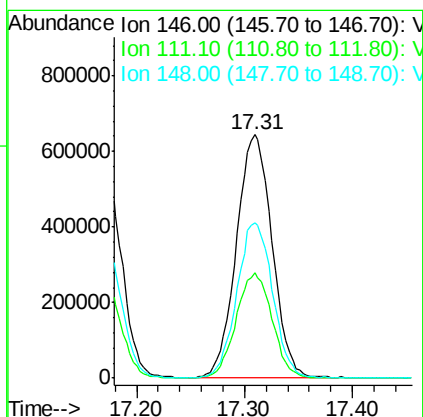
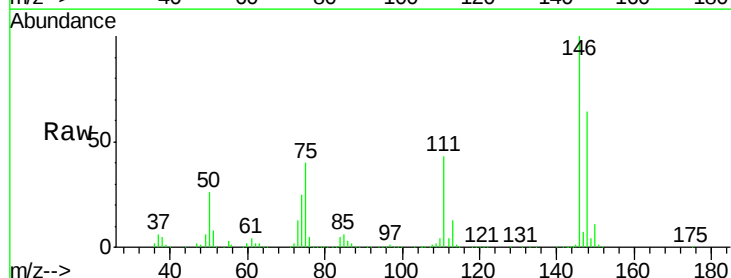
Tgt Ion:146 Resp: 1482634

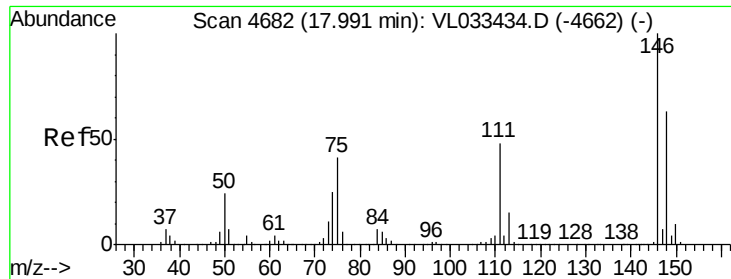
Ion Ratio Lower Upper

146 100

111 43.7 21.7 65.1

148 64.6 32.0 96.2





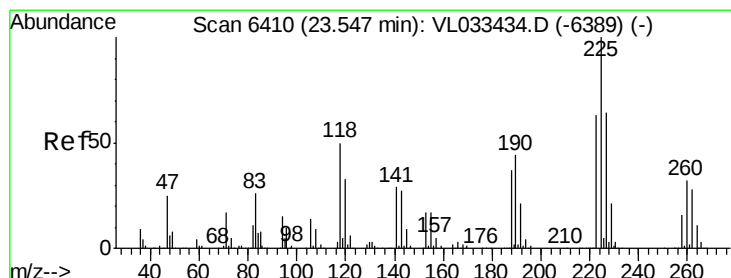
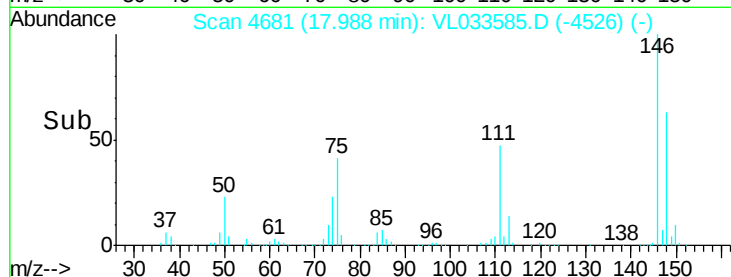
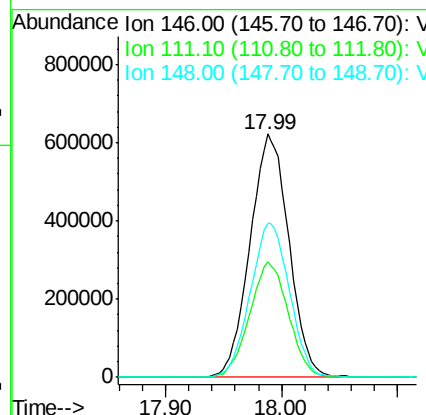
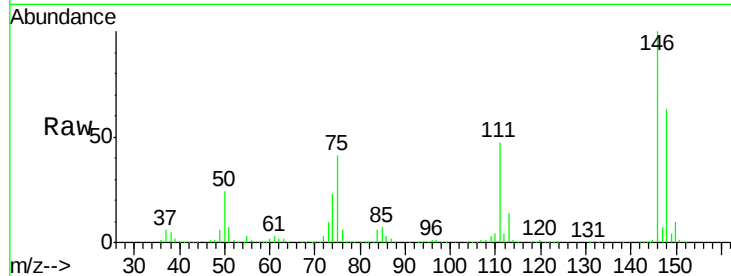
#77
 1,2-Dichlorobenzene
 Concen: 8.750 ppbv
 RT: 17.99 min Scan# 4681
 Delta R.T. -0.00 min
 Lab File: VL033585.D
 Acq: 11 Apr 2019 4:54

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
146	100		
111	47.3	23.5	70.5
148	64.1	32.0	96.0

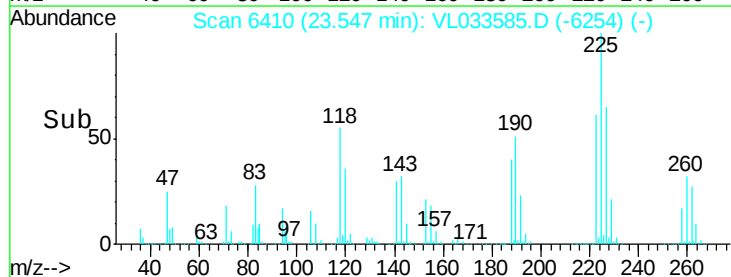
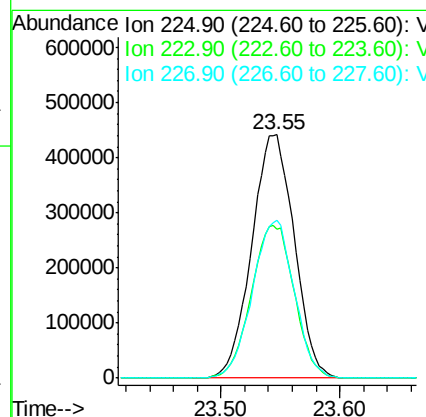
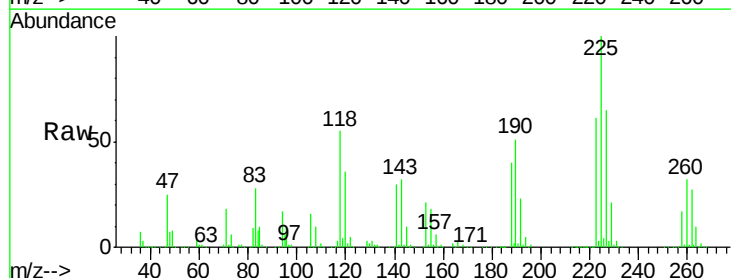
Manual Integrations
 APPROVED

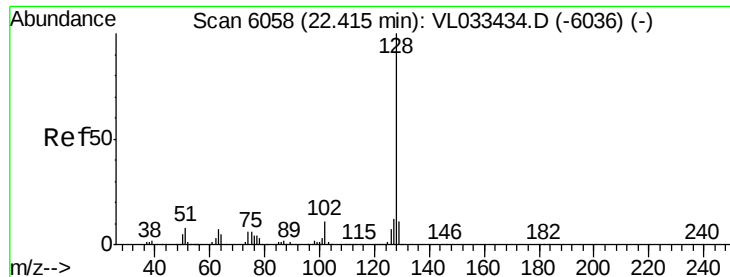
MMDadoda
 4/11/2019 1:02:31 PM



#78
 Hexachloro-1,3-Butadiene
 Concen: 9.963 ppbv
 RT: 23.55 min Scan# 6410
 Delta R.T. 0.00 min
 Lab File: VL033585.D
 Acq: 11 Apr 2019 4:54

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.3	50.0	75.0
227	63.6	51.1	76.7





#79

Naphthalene

Concen: 10.210 ppbv

RT: 22.41 min Scan# 6057

Delta R.T. -0.00 min

Lab File: VL033585.D

Acq: 11 Apr 2019 4:54

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:128 Resp: 2467196

Ion Ratio Lower Upper

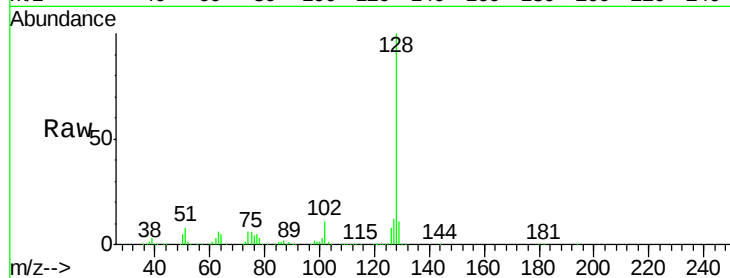
128 100

127 12.4 9.8 14.8

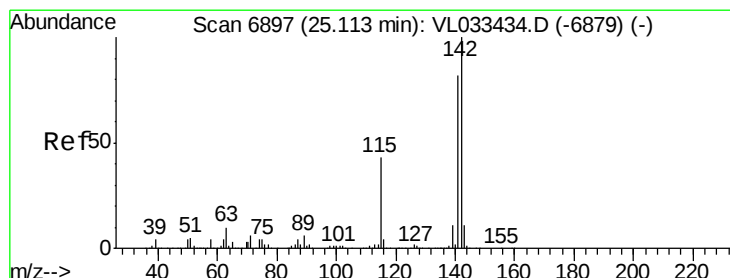
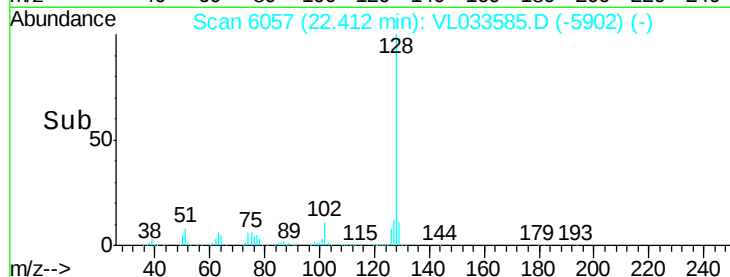
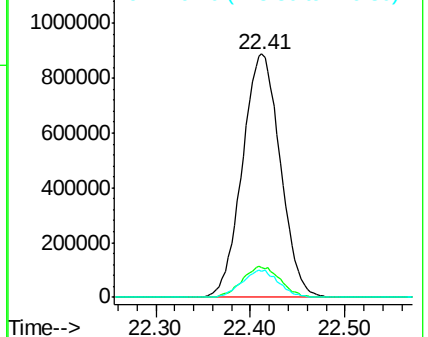
129 10.5 8.6 12.8

Manual Integrations
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Abundance Ion 128.10 (127.80 to 128.80): V
Ion 127.10 (126.80 to 127.80): V
Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 13.834 ppbv

RT: 25.11 min Scan# 6897

Delta R.T. 0.00 min

Lab File: VL033585.D

Acq: 11 Apr 2019 4:54

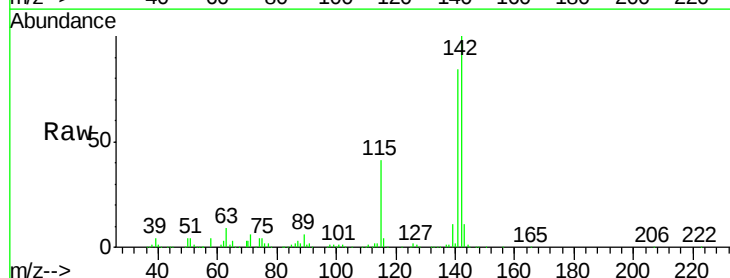
Tgt Ion:142 Resp: 1121888

Ion Ratio Lower Upper

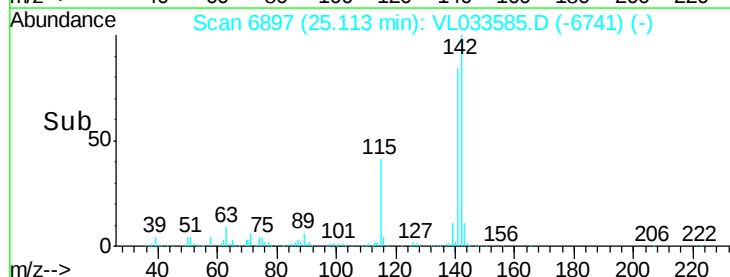
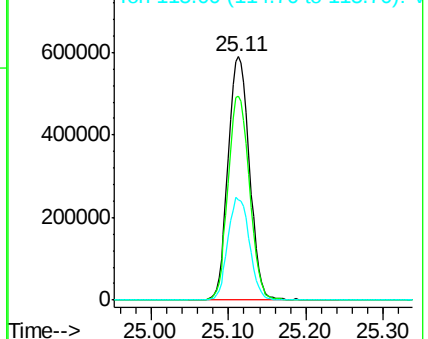
142 100

141 84.2 66.6 99.8

115 42.5 34.4 51.6



Abundance Ion 142.00 (141.70 to 142.70): V
Ion 141.00 (140.70 to 141.70): V
Ion 115.00 (114.70 to 115.70): V





#81
 1,2,4-Trichlorobenzene
 Concen: 9.579 ppbv
 RT: 22.14 min Scan# 5971
 Delta R.T. -0.01 min
 Lab File: VL033585.D
 Acq: 11 Apr 2019 4:54

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.9	77.0	115.4
184	30.5	24.6	36.8

Manual Integrations
 APPROVED

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