

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL011619\
 Data File : VL033087.D
 Acq On : 16 Jan 2019 9:35
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

MMDadoda
 1/17/2019 3:15:44 PM

Quant Time: Jan 17 02:01:26 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL010419AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jan 0
 QLast Update : Fri Jan 04 16:09:05 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	1130267	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2794440	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2835503m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	2081340	9.58	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.80%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.08	85	2258303	10.736	ppbv 100
3) Chlorodifluoromethane	3.01	51	1231667	9.627	ppbv 100
4) Chloromethane	3.17	50	671479	9.163	ppbv 100
5) Vinyl Chloride	3.29	62	707906	9.565	ppbv 98
6) Bromomethane	3.52	94	464982	9.248	ppbv 100
7) Chloroethane	3.60	64	269535	9.313	ppbv 92
8) Dichlorotetrafluoroethane	3.22	85	1793049	9.896	ppbv 99
9) Propene	3.04	41	495077	10.358	ppbv 99
10) Heptane	8.25	43	1351603	9.932	ppbv 99
11) Trichlorofluoromethane	4.00	101	1921981	8.269	ppbv 98
12) 1,1,2-Trichlorotrifluoroet	4.55	101	1314735	8.946	ppbv 99
13) Ethanol	3.64	45	147723	7.750	ppbv 96
14) Bromoethene	3.79	108	586728	9.039	ppbv 100
15) Acetone	3.90	43	1249166	7.985	ppbv 100
16) 1,3-Butadiene	3.36	39	634773	10.760	ppbv 94
17) tert-Butyl alcohol	4.35	59	294898	8.899	ppbv 99
18) 1,1-Dichloroethene	4.35	96	602610	8.901	ppbv 95
19) Isopropyl Alcohol	4.02	45	883303	8.202	ppbv 100
20) Methylene Chloride	4.41	84	515967	7.911	ppbv 98
21) Allyl Chloride	4.48	41	932482	9.619	ppbv 98
22) trans-1,2-Dichloroethene	4.96	96	597099	8.898	ppbv 97
23) Vinyl Acetate	5.16	43	2003711	10.068	ppbv 99
24) 1,1-Dichloroethane	5.09	63	1483243	8.778	ppbv 99
25) Ethyl Acetate	5.77	43	2390473	9.040	ppbv 100
26) Hexane	5.78	57	1104089	8.867	ppbv 99
27) Carbon Disulfide	4.62	76	1535261	9.998	ppbv 99
28) Methyl tert-Butyl Ether	5.11	73	1862921	9.585	ppbv 100
29) Chloroform	5.85	83	1854444	8.739	ppbv 98
30) Cyclohexane	7.25	84	960376	10.344	ppbv 99
31) cis-1,2-Dichloroethene	5.64	61	1145901	9.911	ppbv 97
32) 1,1,1-Trichloroethane	6.62	97	1994934	9.263	ppbv 99
34) 2-Butanone	5.33	43	1508279	9.289	ppbv 100
35) Carbon Tetrachloride	7.13	117	2174302	9.059	ppbv 97
36) Benzene	7.01	78	2221466	9.705	ppbv 99
37) 1,2-Dichloroethane	6.42	62	1464758	9.165	ppbv 99
38) Trichloroethene	7.96	130	942221	10.006	ppbv 97
39) 1,2-Dichloropropane	7.74	63	826372	9.610	ppbv 96
40) 1,4-Dioxane	7.95	88	318167	9.747	ppbv 96
41) Tetrahydrofuran	6.15	42	844540	10.219	ppbv 99
42) Bromodichloromethane	7.92	83	2024257	9.220	ppbv 98
43) Methyl Methacrylate	8.14	69	887930	10.338	ppbv 97

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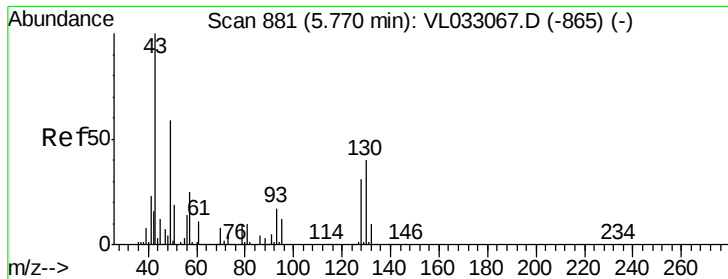
Manual Integrations
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Quant Time: Jan 17 02:01:26 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL010419AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jan 0
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	3743324	9.656	ppbv	100
45) t-1,3-Dichloropropene	9.42	75	1239729	11.595	ppbv	98
46) cis-1,3-Dichloropropene	8.84	75	1404752	11.512	ppbv	100
47) 1,1,2-Trichloroethane	9.62	97	931057	9.267	ppbv	98
48) Dibromochloromethane	10.45	129	1811621	10.206	ppbv	100
49) Bromoform	13.20	173	1552611	10.011	ppbv	100
50) 4-Methyl-2-Pentanone	8.87	43	2105844	10.236	ppbv	99
51) 2-Hexanone	10.27	43	1650701	11.089	ppbv	100
52) Tetrachloroethene	11.38	164	835817	10.330	ppbv	97
53) Toluene	9.95	91	2639917	10.761	ppbv	100
54) 1,2-Dibromoethane	10.76	107	1483104	10.246	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.28	131	1280170	8.738	ppbv	99
57) Chlorobenzene	12.30	112	2084420	8.807	ppbv	99
58) Ethyl Benzene	12.86	91	3621286	10.115	ppbv	100
59) m/p-Xylene	13.13	91	6233610m	18.822	ppbv	
60) o-Xylene	13.85	91	3008198	9.278	ppbv	100
61) Styrene	13.69	104	2218327	10.723	ppbv	100
62) Isopropylbenzene	14.83	105	4266303	9.246	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.84	83	2048847	8.507	ppbv	100
64) n-propylbenzene	15.72	120	1088735	9.288	ppbv	98
65) tert-Butylbenzene	16.91	119	3785020	9.261	ppbv	100
66) Benzyl Chloride	17.16	91	2296270	9.858	ppbv	100
67) sec-Butylbenzene	17.46	105	5293764	9.051	ppbv	100
69) p-Isopropyltoluene	17.82	119	4373242	9.212	ppbv	100
70) n-Butylbenzene	18.72	91	4310610	9.033	ppbv	100
71) 2-Chlorotoluene	15.62	91	3135202	9.581	ppbv	100
72) 4-Ethyltoluene	16.00	105	3465376	9.726	ppbv	100
73) 1,3,5-Trimethylbenzene	16.16	105	3279697	9.329	ppbv	100
74) 1,2,4-Trimethylbenzene	16.93	105	3406938	8.750	ppbv	98
75) 1,3-Dichlorobenzene	17.17	146	1909717	8.333	ppbv	100
76) 1,4-Dichlorobenzene	17.31	146	1872967	8.972	ppbv	100
77) 1,2-Dichlorobenzene	17.99	146	1811179	8.775	ppbv	99
78) Hexachloro-1,3-Butadiene	23.55	225	1390087	8.769	ppbv	100
79) Naphthalene	22.42	128	3175813	9.684	ppbv	99
80) Naphthalene, 2-methyl-	25.12	142	1257599	12.636	ppbv	99
81) 1,2,4-Trichlorobenzene	22.14	180	1505691	9.504	ppbv	99

(#) = 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

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MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 49 Resp: 1130267

Ion Ratio Lower Upper

49 100

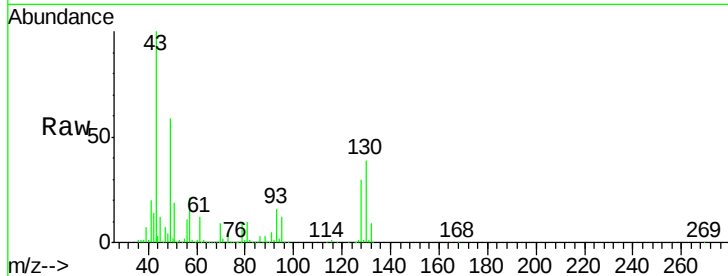
128 52.6 26.2 78.5

130 67.1 33.6 100.6

Manual Integrations
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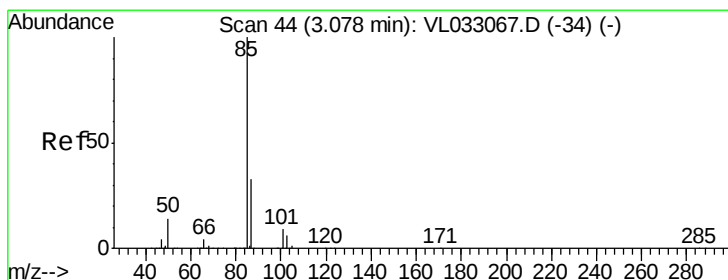
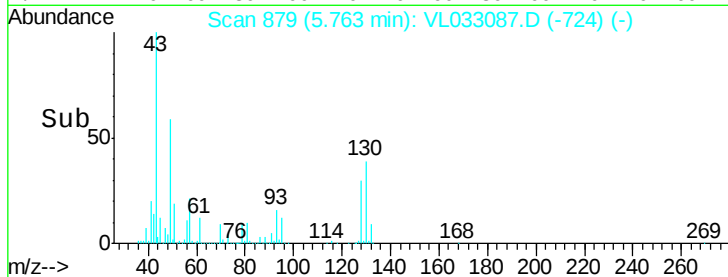
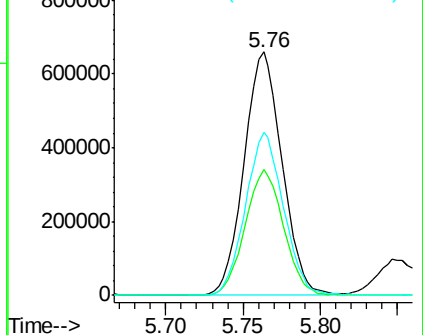
1/17/2019 3:15:44 PM



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



#2

Dichlorodifluoromethane

Concen: 10.736 ppbv

RT: 3.08 min Scan# 44

Delta R.T. 0.00 min

Lab File: VL033087.D

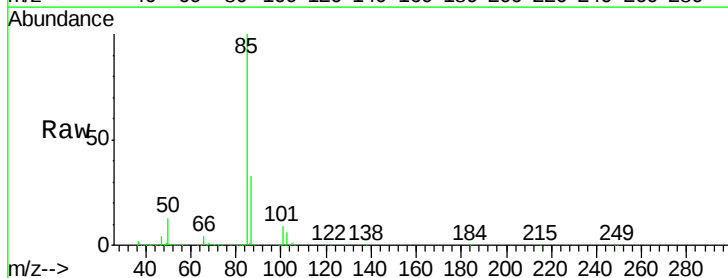
Acq: 16 Jan 2019 9:35

Tgt Ion: 85 Resp: 2258303

Ion Ratio Lower Upper

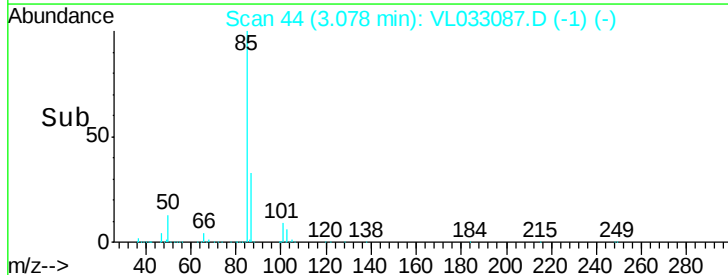
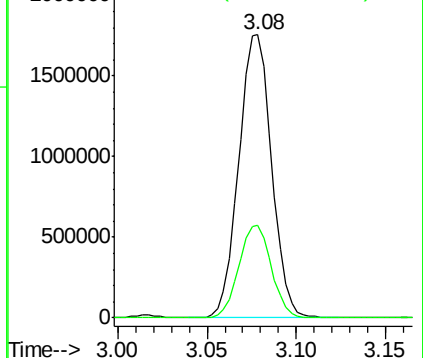
85 100

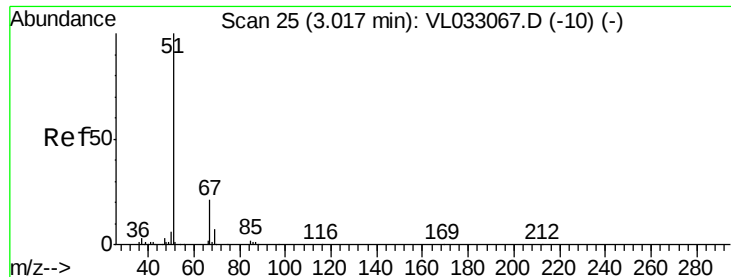
87 32.9 26.3 39.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 9.627 ppbv

RT: 3.01 min Scan# 24

Delta R.T. 0.00 min

Lab File: VL033087.D

Acq: 16 Jan 2019 9:35

Tot Ion: 51 Resp: 1231667

Ion Ratio Lower Upper

51 100

67 20.6 16.3 24.5

Instrument :

MSVOA_L

ClientSampleId :

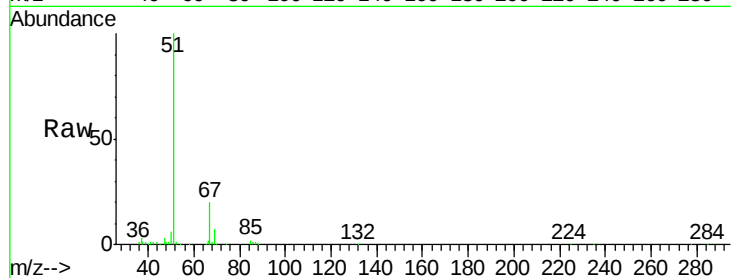
VSTDCCC010

Manual Integrations

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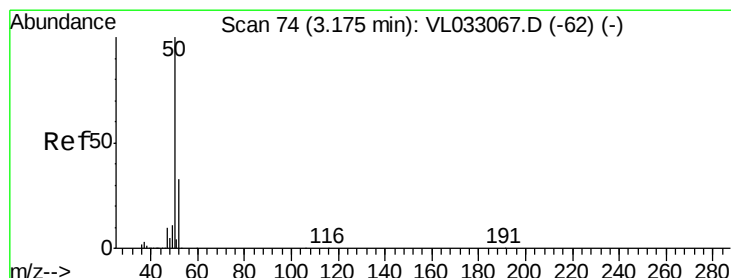
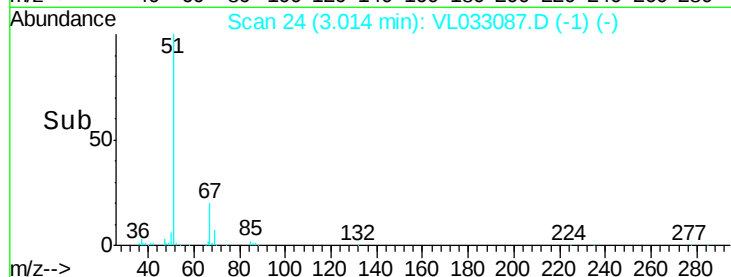
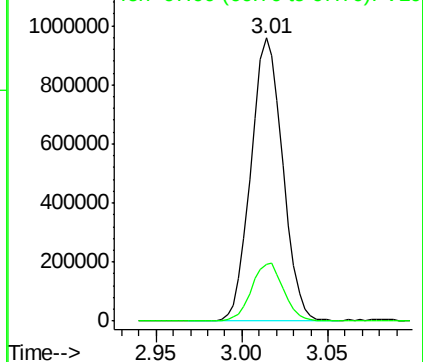
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 9.163 ppbv

RT: 3.17 min Scan# 73

Delta R.T. 0.00 min

Lab File: VL033087.D

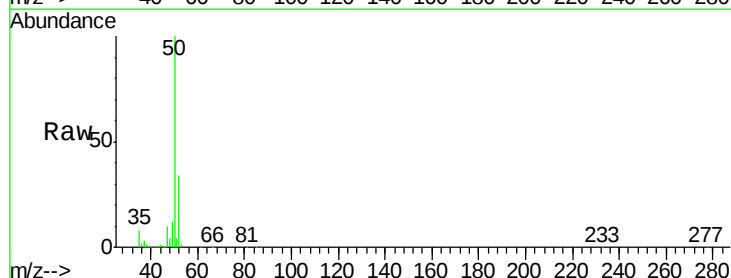
Acq: 16 Jan 2019 9:35

Tgt Ion: 50 Resp: 671479

Ion Ratio Lower Upper

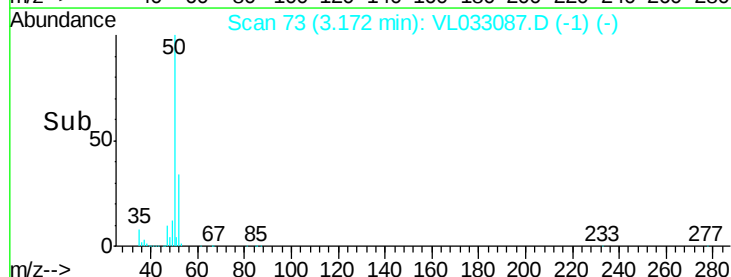
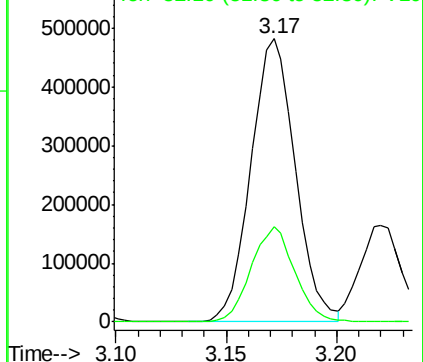
50 100

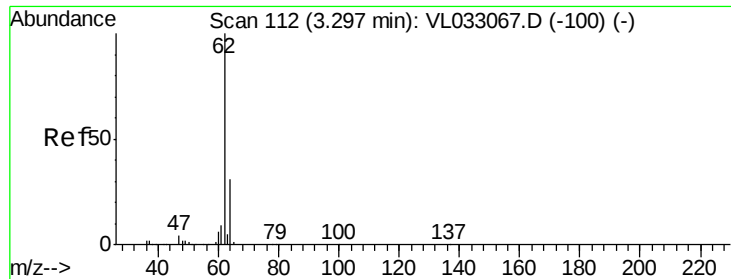
52 33.7 26.9 40.3



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 9.565 ppbv

RT: 3.29 min Scan# 110

Delta R.T. -0.00 min

Lab File: VL033087.D

Acq: 16 Jan 2019 9:35

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 62 Resp: 707906

Ion Ratio Lower Upper

62 100

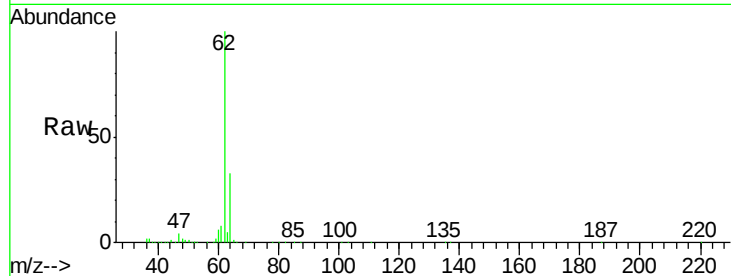
64 32.8 25.3 37.9

Manual Integrations

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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0

3.29

600000

500000

400000

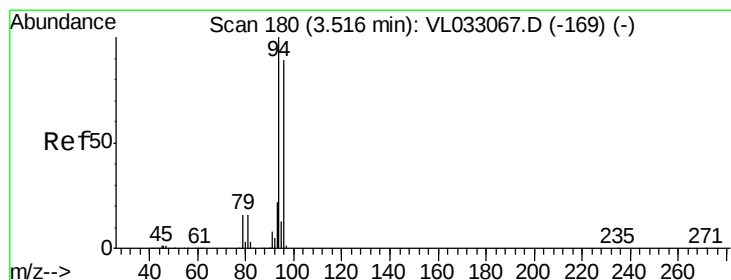
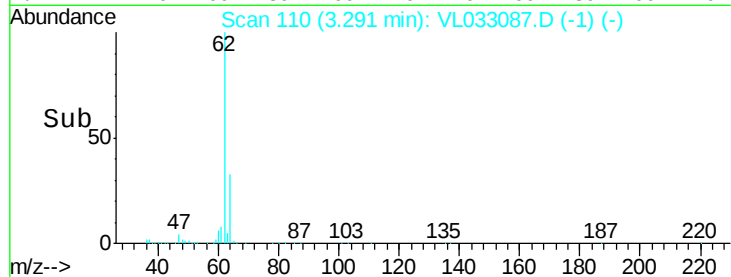
300000

200000

100000

0

Time-->



#6

Bromomethane

Concen: 9.248 ppbv

RT: 3.52 min Scan# 180

Delta R.T. 0.00 min

Lab File: VL033087.D

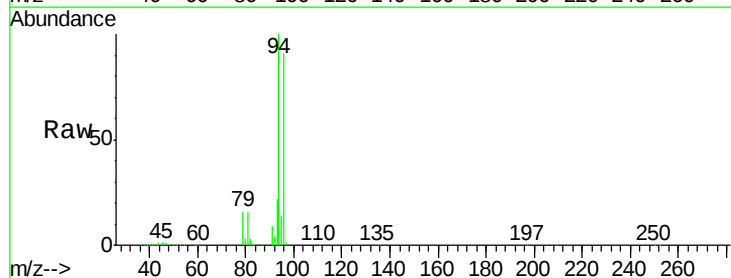
Acq: 16 Jan 2019 9:35

Tgt Ion: 94 Resp: 464982

Ion Ratio Lower Upper

94 100

96 91.0 72.8 109.2



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0

3.52

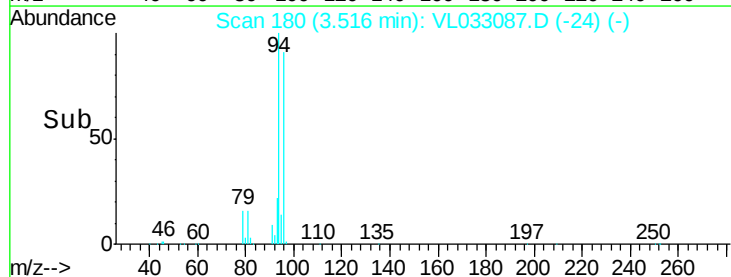
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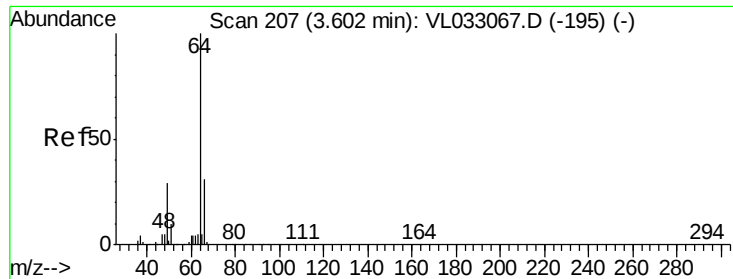
200000

100000

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Time-->





#7

Chloroethane

Concen: 9.313 ppbv

RT: 3.60 min Scan# 206

Delta R.T. 0.00 min

Lab File: VL033087.D

Acq: 16 Jan 2019 9:35

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 64 Resp: 269535

Ion Ratio Lower Upper

64 100

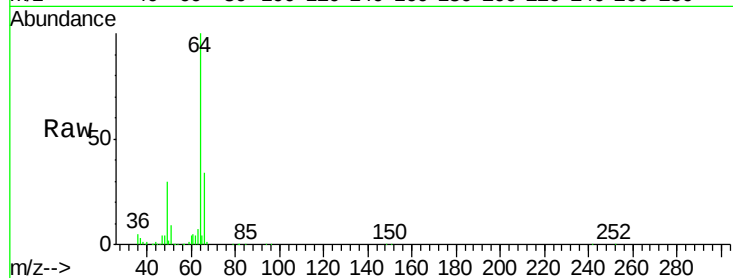
66 33.7 23.7 35.5

Manual Integrations

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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0

3.60

200000

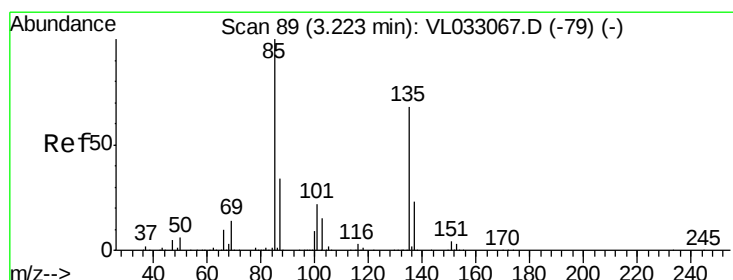
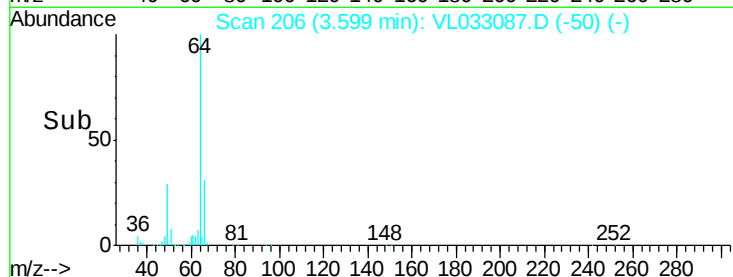
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100000

50000

0

Time-->



#8

Dichlorotetrafluoroethane

Concen: 9.896 ppbv

RT: 3.22 min Scan# 88

Delta R.T. 0.00 min

Lab File: VL033087.D

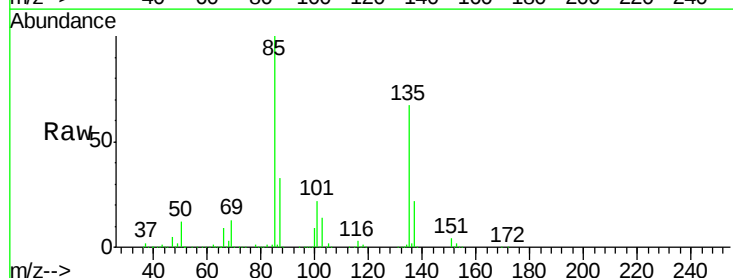
Acq: 16 Jan 2019 9:35

Tgt Ion: 85 Resp: 1793049

Ion Ratio Lower Upper

85 100

135 68.0 54.9 82.3



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

3.22

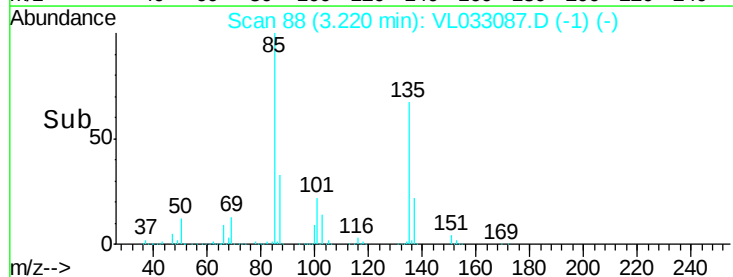
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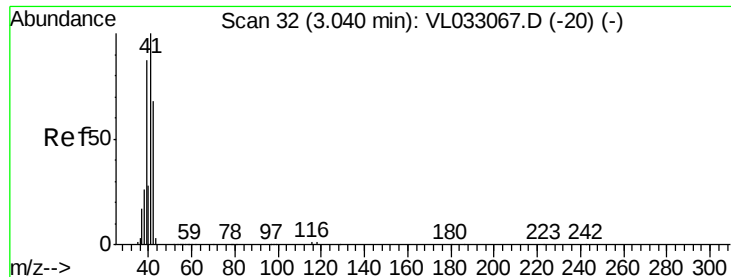
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Time-->





#9

Propene

Concen: 10.358 ppbv

RT: 3.04 min Scan# 31

Delta R.T. 0.00 min

Lab File: VL033087.D

Acq: 16 Jan 2019 9:35

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 41 Resp: 495077

Ion Ratio Lower Upper

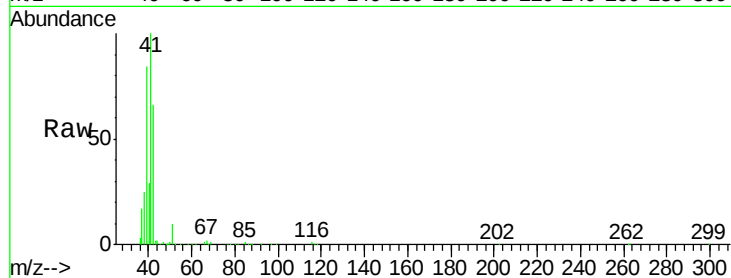
41 100

42 68.7 55.3 82.9

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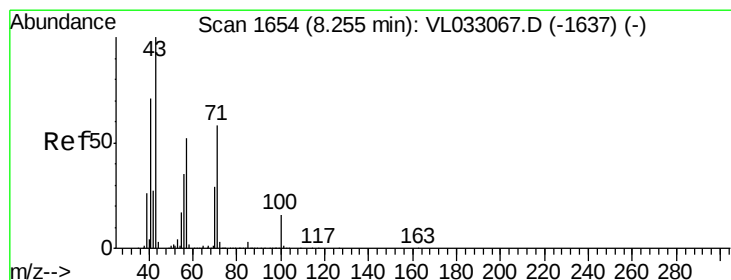
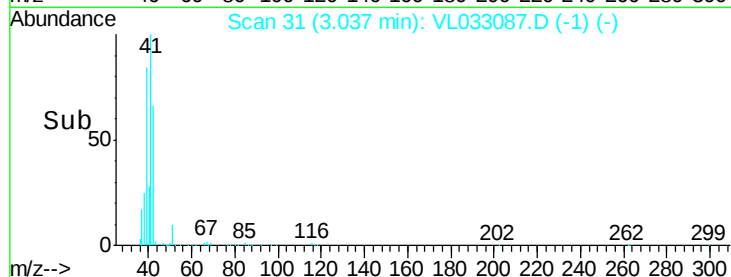
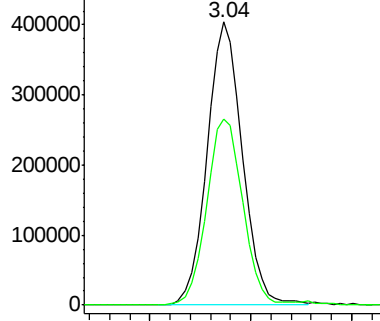
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Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 9.932 ppbv

RT: 8.25 min Scan# 1651

Delta R.T. -0.00 min

Lab File: VL033087.D

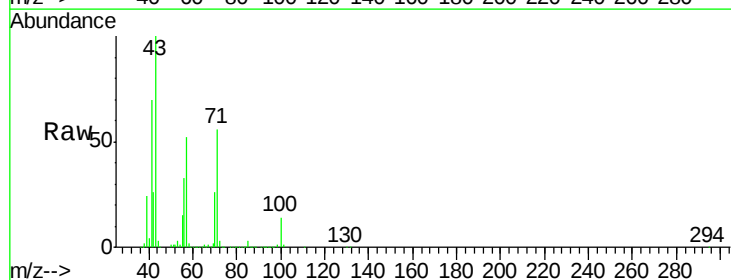
Acq: 16 Jan 2019 9:35

Tgt Ion: 43 Resp: 1351603

Ion Ratio Lower Upper

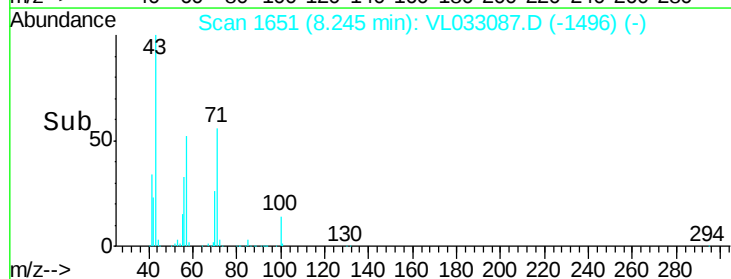
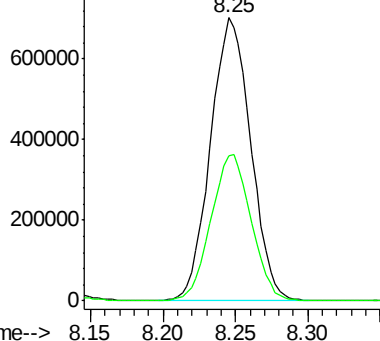
43 100

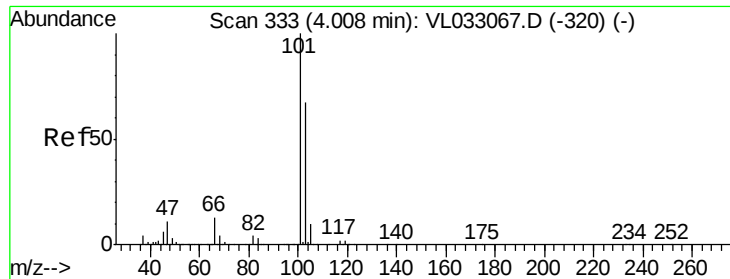
57 51.8 41.9 62.9



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





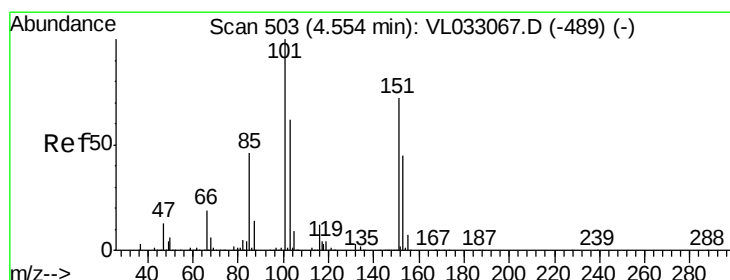
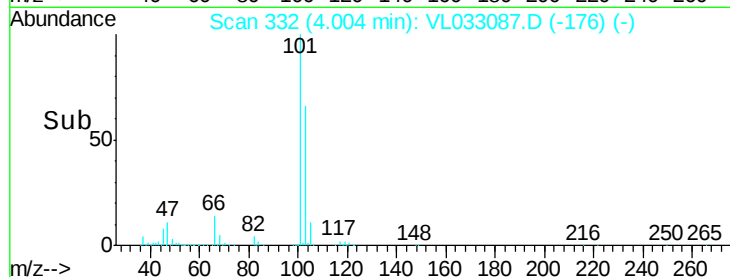
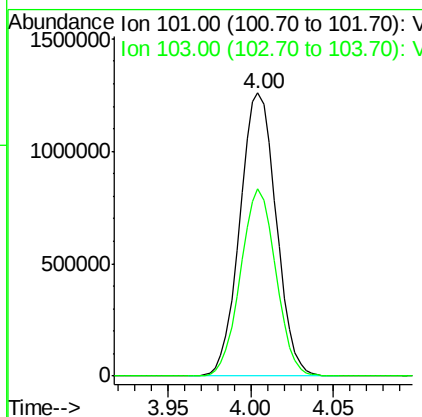
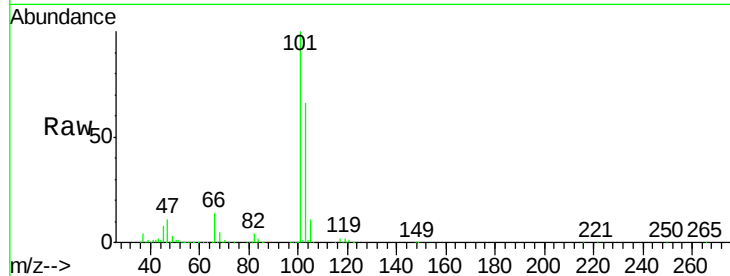
#11
 Trichlorofluoromethane
 Concen: 8.269 ppbv
 RT: 4.00 min Scan# 332
 Delta R.T. 0.00 min
 Lab File: VL033087.D
 Acq: 16 Jan 2019 9:35

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion:101 Resp: 1921981
 Ion Ratio Lower Upper
 101 100
 103 66.3 51.7 77.5

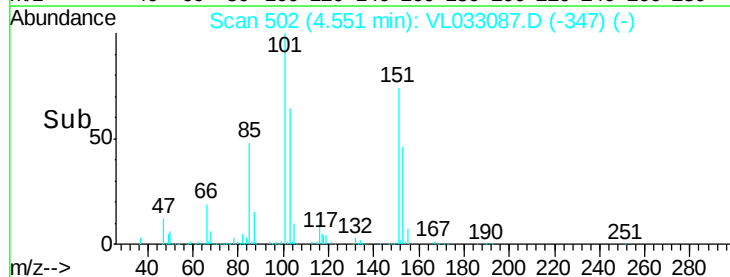
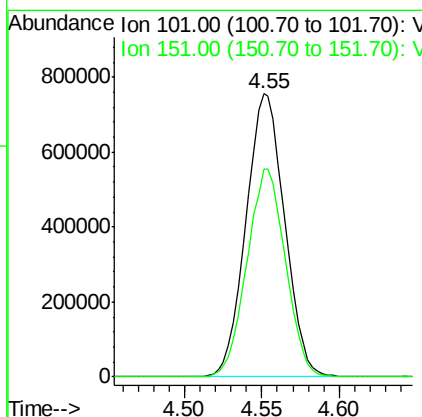
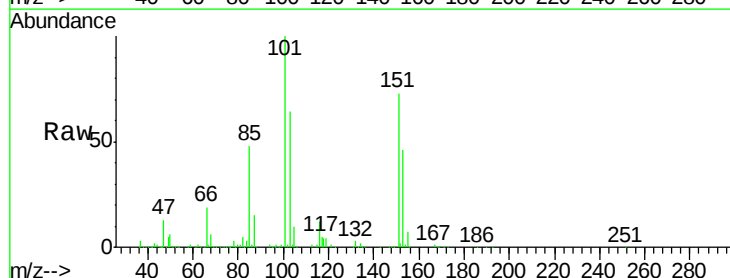
Manual Integrations
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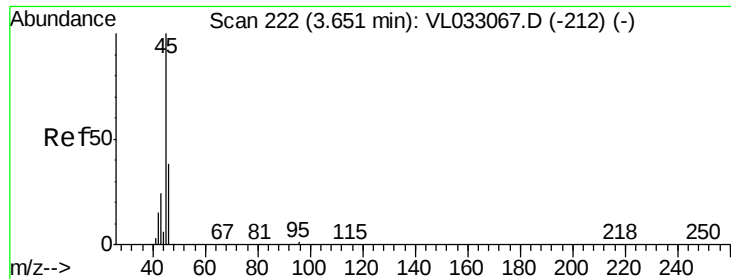
MMDadoda
 1/17/2019 3:15:44 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 8.946 ppbv
 RT: 4.55 min Scan# 502
 Delta R.T. -0.00 min
 Lab File: VL033087.D
 Acq: 16 Jan 2019 9:35

Tgt Ion:101 Resp: 1314735
 Ion Ratio Lower Upper
 101 100
 151 73.4 58.3 87.5





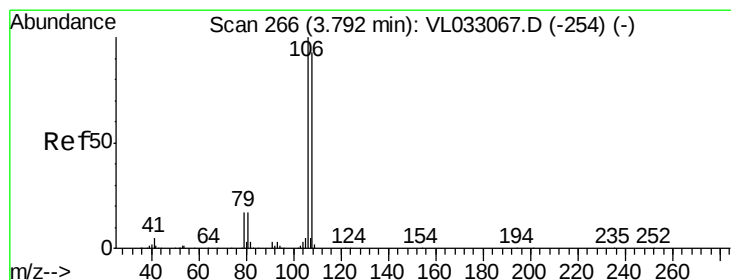
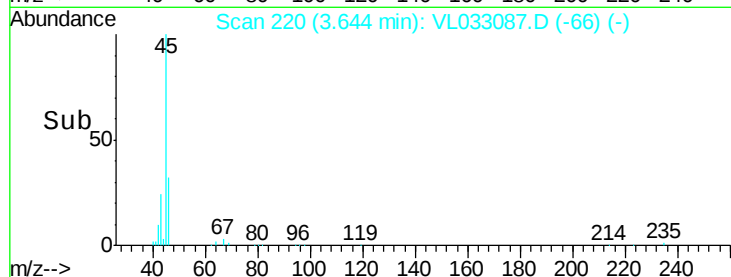
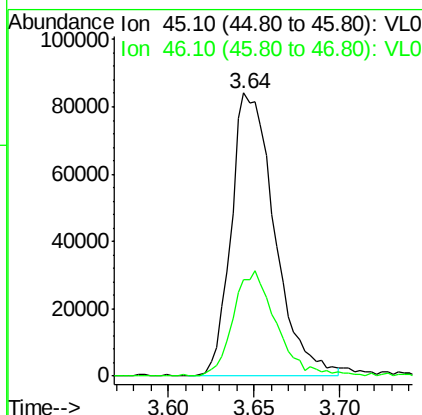
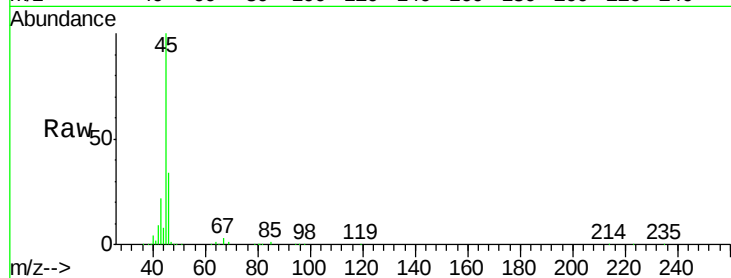
#13
Ethanol
Concen: 7.750 ppbv
RT: 3.64 min Scan# 220
Delta R.T. -0.01 min
Lab File: VL033087.D
Acq: 16 Jan 2019 9:35

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 45 Resp: 147723
Ion Ratio Lower Upper
45 100
46 37.1 13.8 55.2

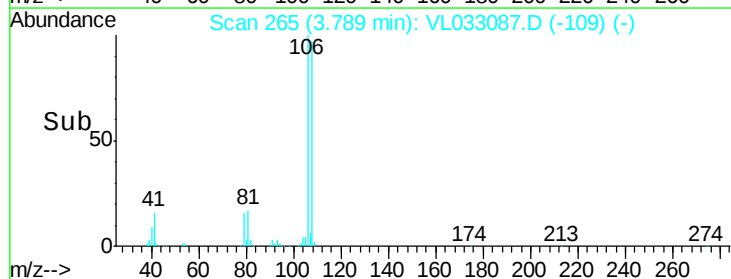
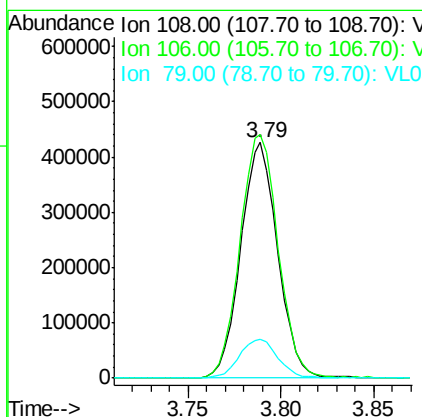
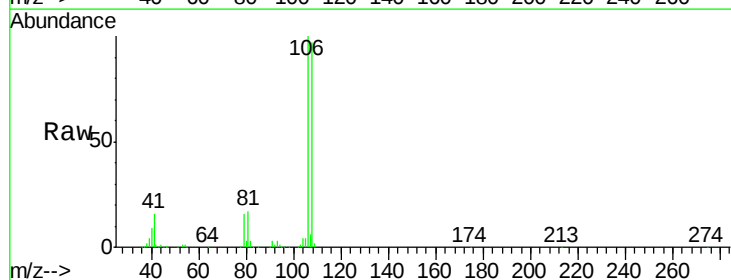
Manual Integrations
APPROVED

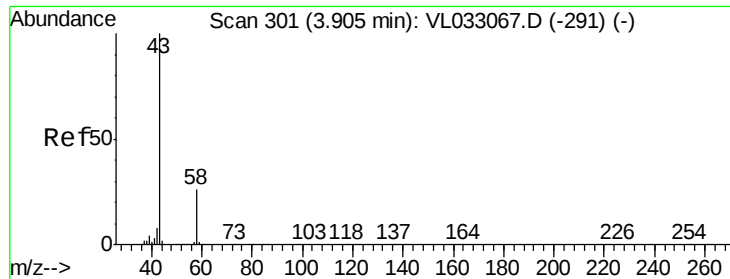
MMDadoda
1/17/2019 3:15:44 PM



#14
Bromoethene
Concen: 9.039 ppbv
RT: 3.79 min Scan# 265
Delta R.T. 0.00 min
Lab File: VL033087.D
Acq: 16 Jan 2019 9:35

Tgt Ion: 108 Resp: 586728
Ion Ratio Lower Upper
108 100
106 108.0 86.4 129.6
79 17.2 14.3 21.5





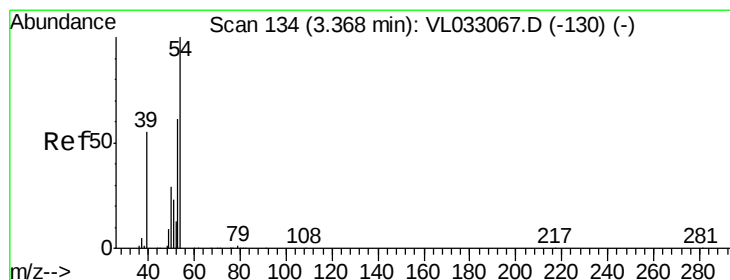
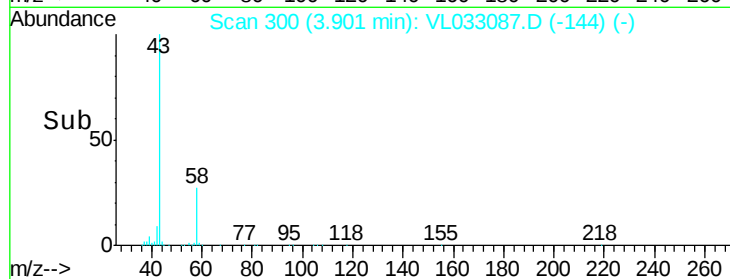
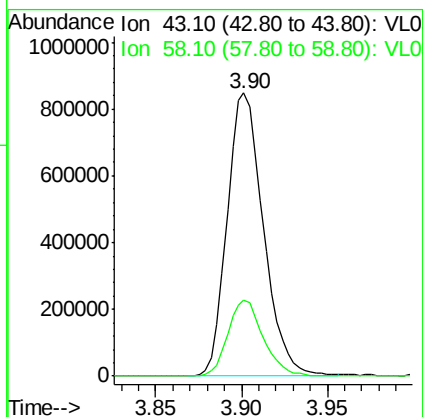
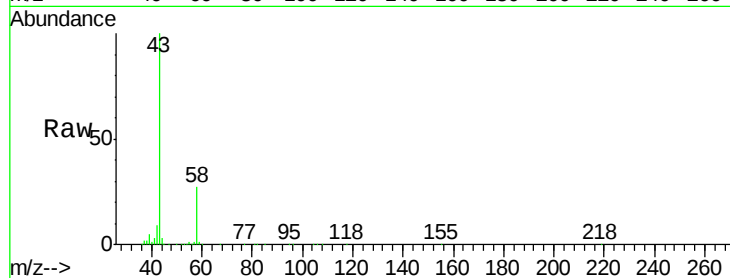
#15
Acetone
Concen: 7.985 ppbv
RT: 3.90 min Scan# 300
Delta R.T. 0.00 min
Lab File: VL033087.D
Acq: 16 Jan 2019 9:35

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 43 Resp: 1249166
Ion Ratio Lower Upper
43 100
58 26.6 21.1 31.7

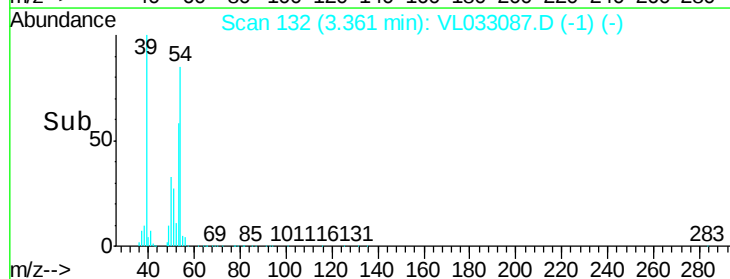
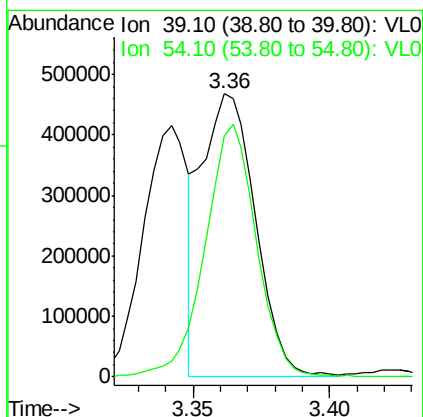
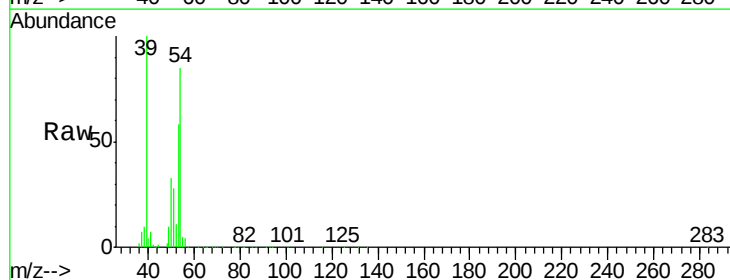
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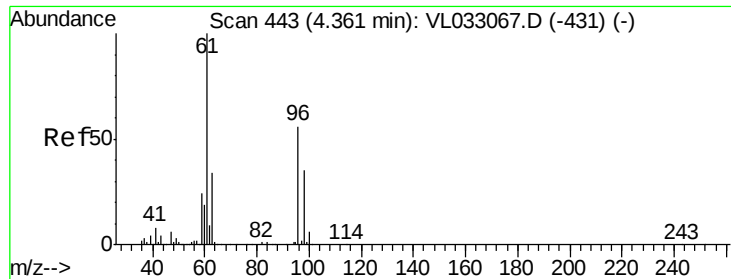
MMDadoda
1/17/2019 3:15:44 PM



#16
1,3-Butadiene
Concen: 10.760 ppbv
RT: 3.36 min Scan# 132
Delta R.T. -0.00 min
Lab File: VL033087.D
Acq: 16 Jan 2019 9:35

Tgt Ion: 39 Resp: 634773
Ion Ratio Lower Upper
39 100
54 86.4 73.7 110.5





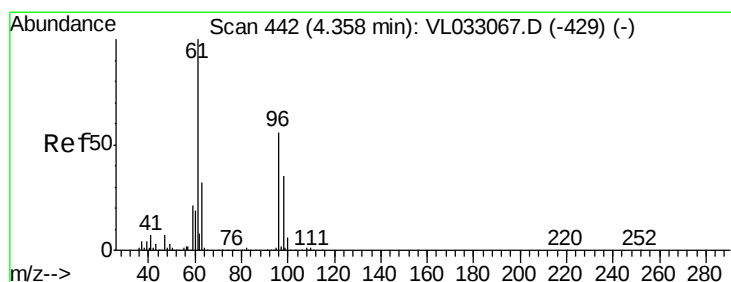
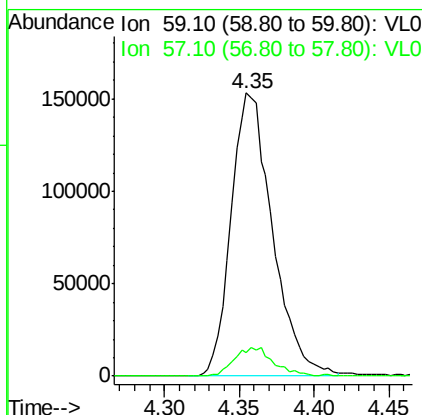
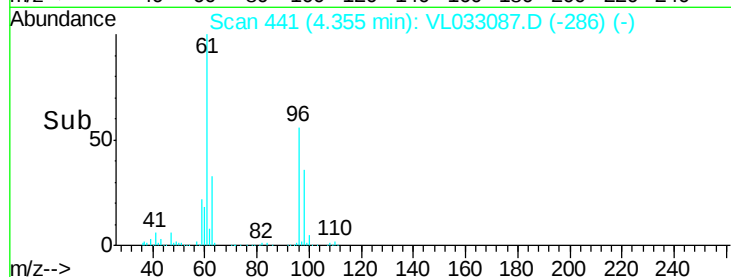
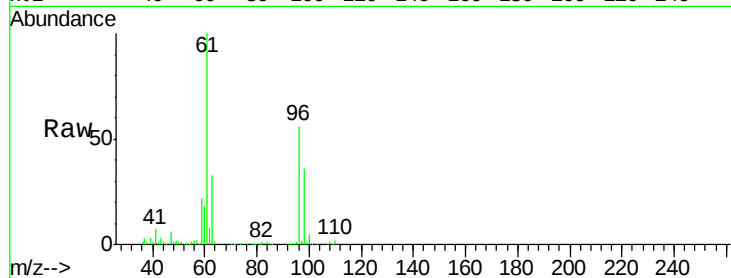
#17
tert-Butyl alcohol
Concen: 8.899 ppbv
RT: 4.35 min Scan# 441
Delta R.T. -0.00 min
Lab File: VL033087.D
Acq: 16 Jan 2019 9:35

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 59 Resp: 294898
Ion Ratio Lower Upper
59 100
57 9.9 7.7 11.5

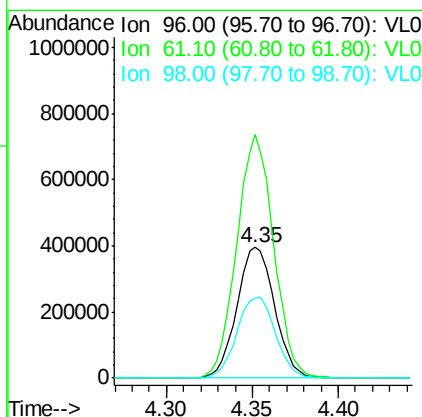
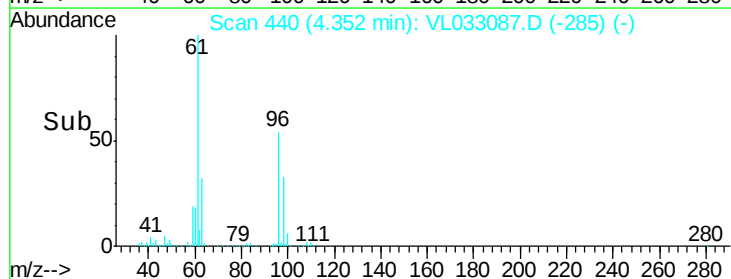
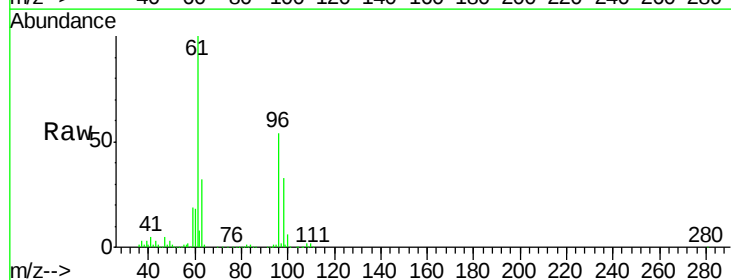
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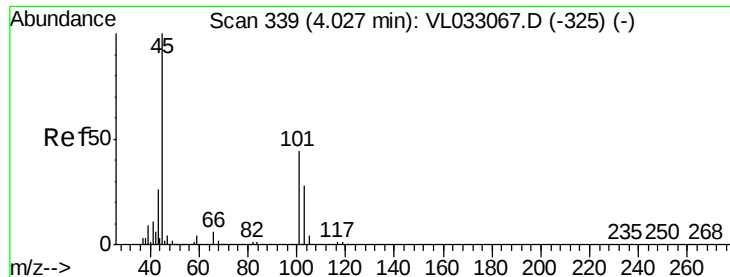
MMDadoda
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#18
1,1-Dichloroethene
Concen: 8.901 ppbv
RT: 4.35 min Scan# 440
Delta R.T. -0.00 min
Lab File: VL033087.D
Acq: 16 Jan 2019 9:35

Tgt Ion: 96 Resp: 602610
Ion Ratio Lower Upper
96 100
61 186.5 143.7 215.5
98 61.6 52.1 78.1





#19

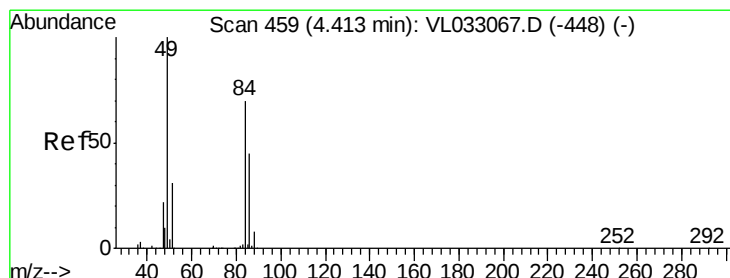
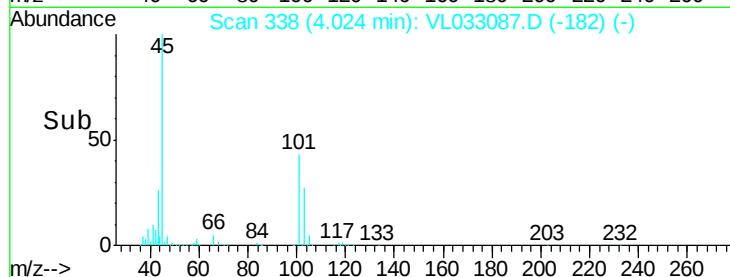
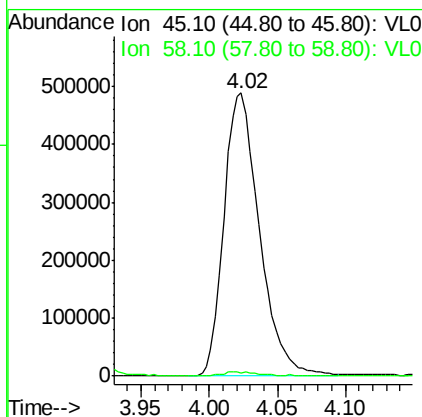
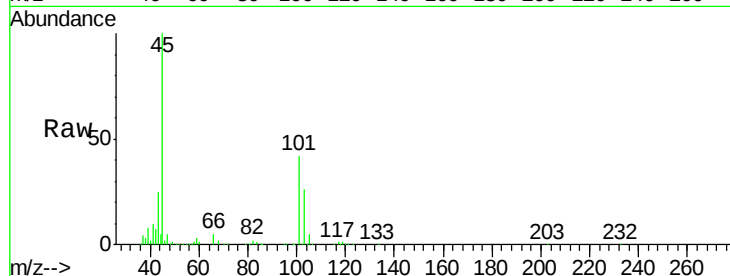
Isopropyl Alcohol
 Concen: 8.202 ppbv
 RT: 4.02 min Scan# 338
 Delta R.T. 0.00 min
 Lab File: VL033087.D
 Acq: 16 Jan 2019 9:35

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
45	100		
58	1.8	1.4	2.2

Manual Integrations
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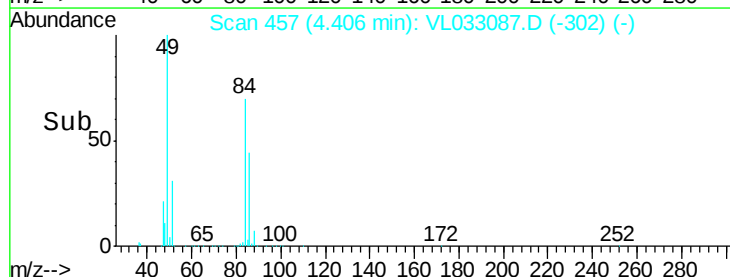
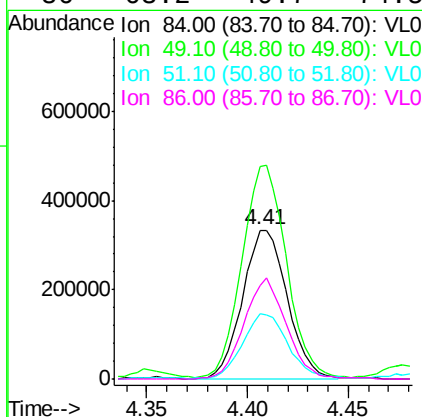
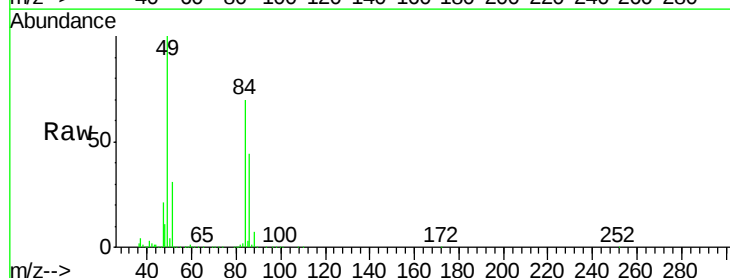
MMDadoda
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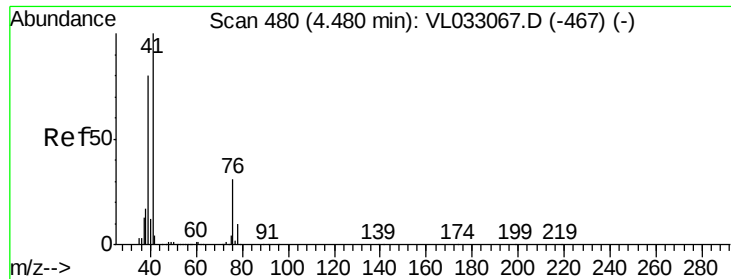


#20

Methylene Chloride
 Concen: 7.911 ppbv
 RT: 4.41 min Scan# 457
 Delta R.T. -0.00 min
 Lab File: VL033087.D
 Acq: 16 Jan 2019 9:35

Tgt Ion	Ratio	Lower	Upper
84	100		
49	141.9	115.8	173.6
51	43.7	35.7	53.5
86	63.2	49.7	74.5





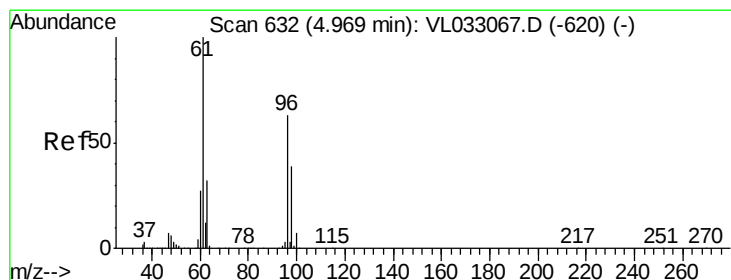
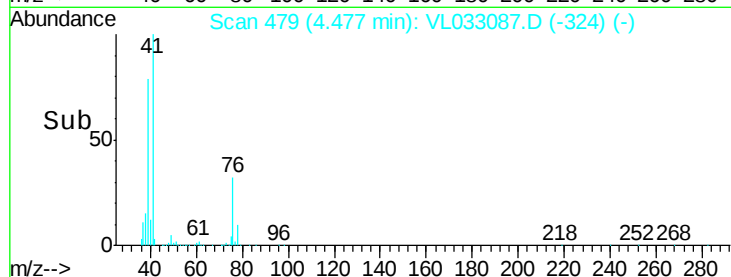
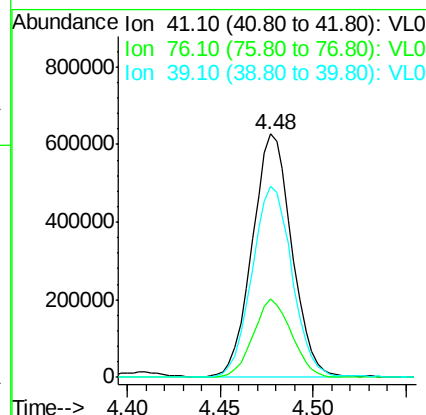
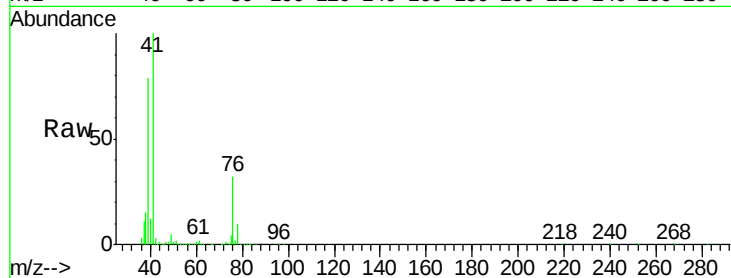
#21
Allvl Chloride
Concen: 9.619 ppbv
RT: 4.48 min Scan# 479
Delta R.T. -0.00 min
Lab File: VL033087.D
Acq: 16 Jan 2019 9:35

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
41	100		
76	31.5	24.6	36.8
39	79.9	62.8	94.2

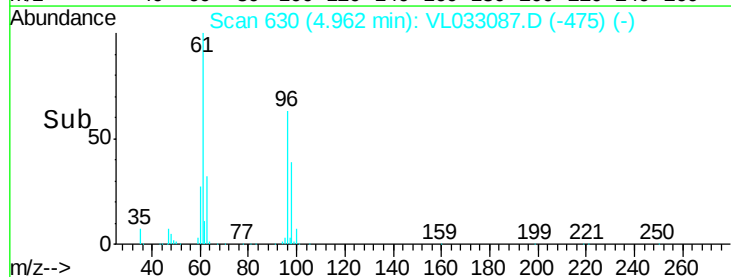
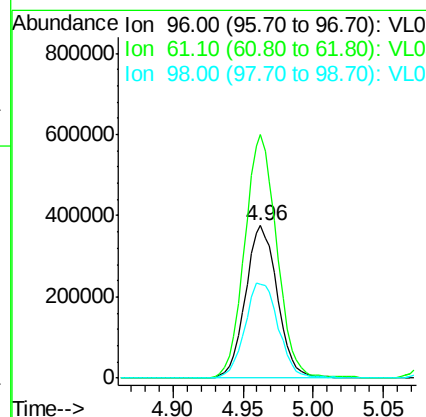
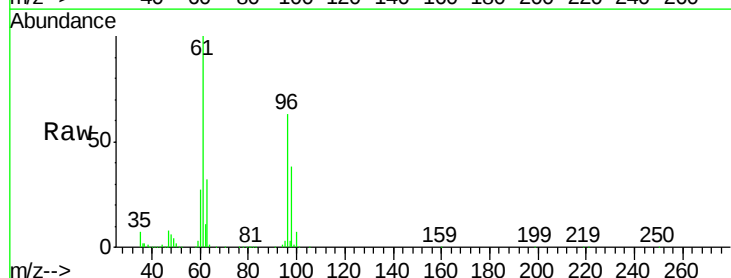
Manual Integrations
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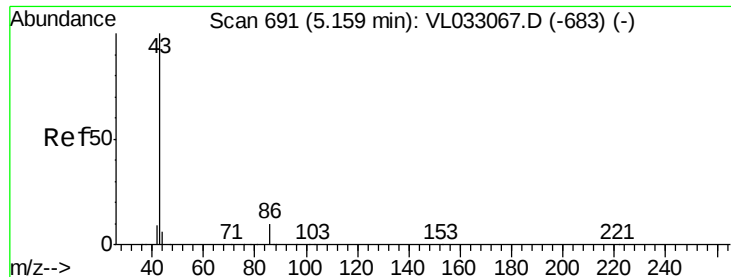
MMDadoda
1/17/2019 3:15:44 PM



#22
trans-1,2-Dichloroethene
Concen: 8.898 ppbv
RT: 4.96 min Scan# 630
Delta R.T. -0.00 min
Lab File: VL033087.D
Acq: 16 Jan 2019 9:35

Tgt Ion	Ratio	Lower	Upper
96	100		
61	159.6	125.2	187.8
98	61.2	50.9	76.3





#23

Vinyl Acetate

Concen: 10.068 ppbv

RT: 5.16 min Scan# 690

Delta R.T. -0.00 min

Lab File: VL033087.D

Acq: 16 Jan 2019 9:35

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 43 Resp: 2003711

Ion Ratio Lower Upper

43 100

86 8.5 6.2 9.4

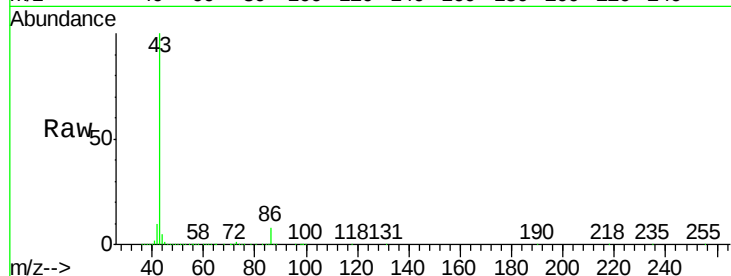
42 10.3 8.1 12.1

44 5.0 4.3 6.5

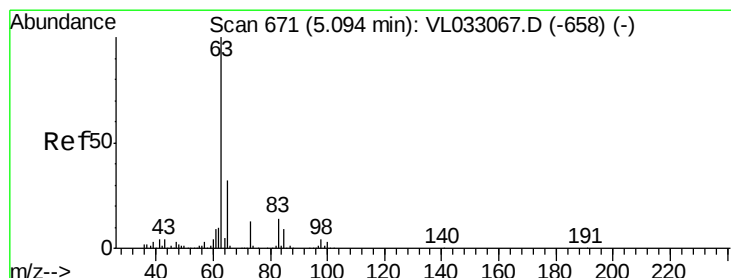
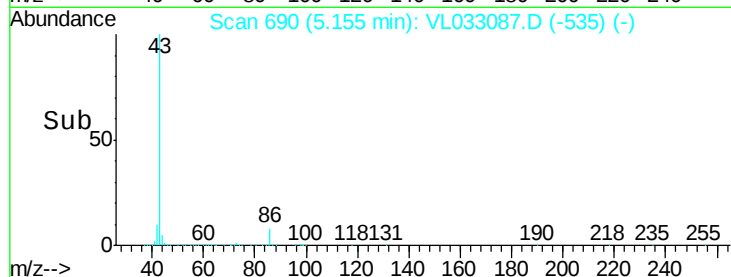
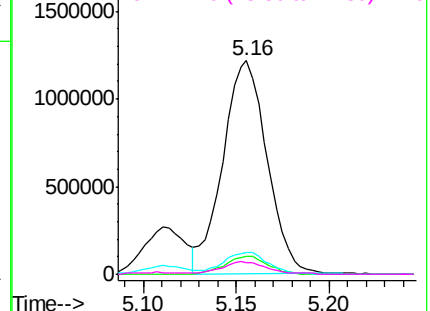
Manual Integrations
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Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 86.10 (85.80 to 86.80): VL0
Ion 42.10 (41.80 to 42.80): VL0
Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 8.778 ppbv

RT: 5.09 min Scan# 670

Delta R.T. -0.00 min

Lab File: VL033087.D

Acq: 16 Jan 2019 9:35

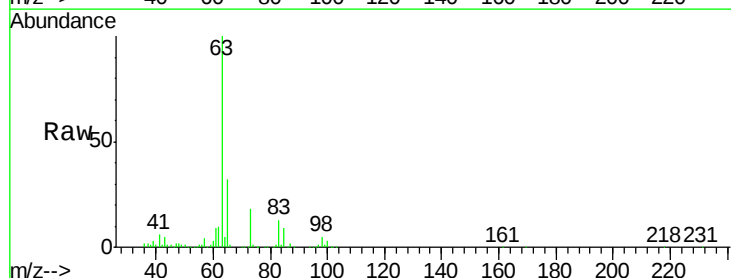
Tgt Ion: 63 Resp: 1483243

Ion Ratio Lower Upper

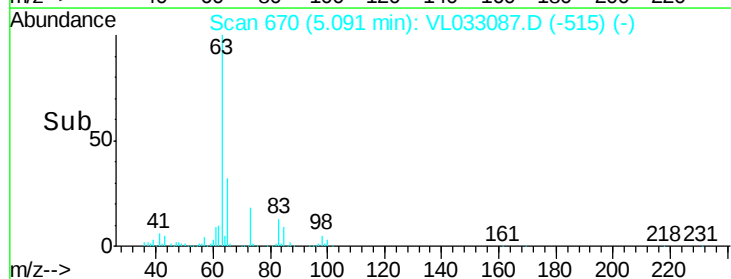
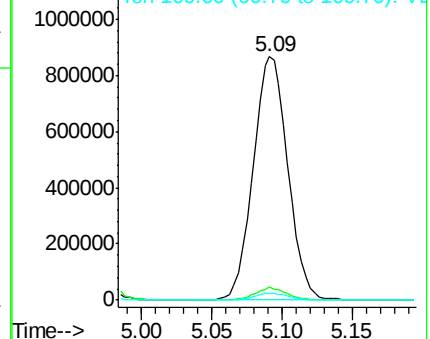
63 100

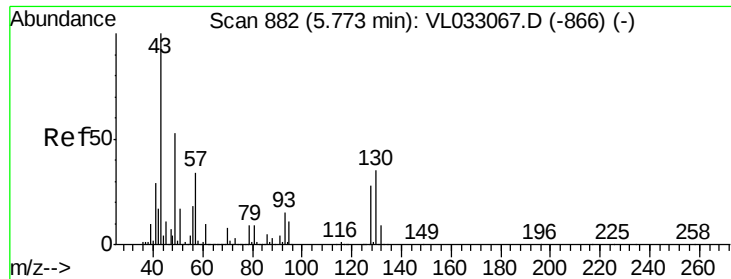
98 5.1 2.4 7.2

100 2.8 1.4 4.0



Abundance Ion 63.10 (62.80 to 63.80): VL0
Ion 98.00 (97.70 to 98.70): VL0
Ion 100.00 (99.70 to 100.70): VL0





#25

Ethyl Acetate

Concen: 9.040 ppbv

RT: 5.77 min Scan# 880

Delta R.T. -0.00 min

Lab File: VL033087.D

Acq: 16 Jan 2019 9:35

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 43 Resp: 2390473

Ion Ratio Lower Upper

43 100

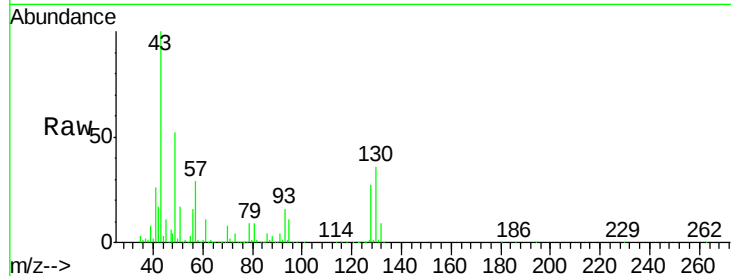
45 9.9 7.9 11.9

61 9.4 7.8 11.8

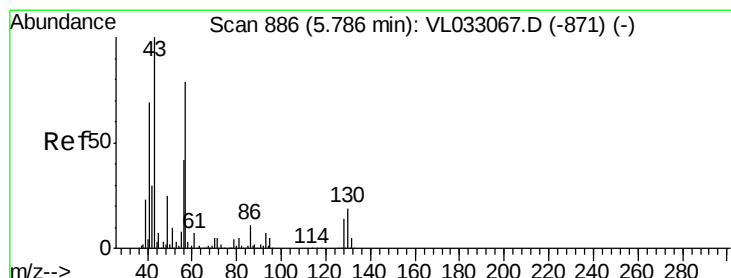
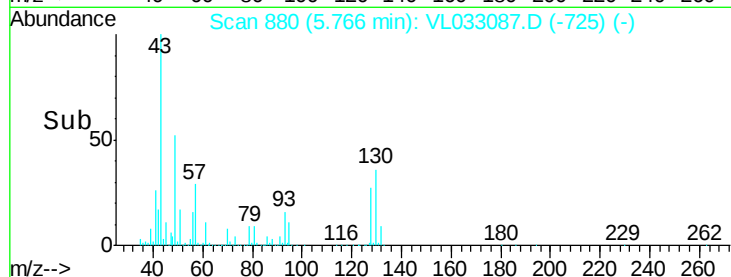
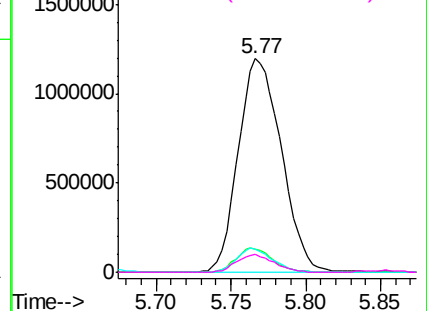
70 7.4 6.0 9.0

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



#26

Hexane

Concen: 8.867 ppbv

RT: 5.78 min Scan# 883

Delta R.T. -0.01 min

Lab File: VL033087.D

Acq: 16 Jan 2019 9:35

Tgt Ion: 57 Resp: 1104089

Ion Ratio Lower Upper

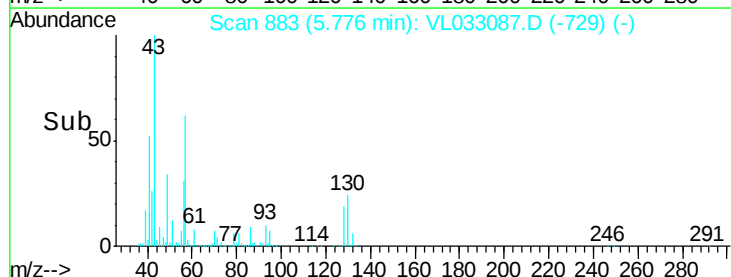
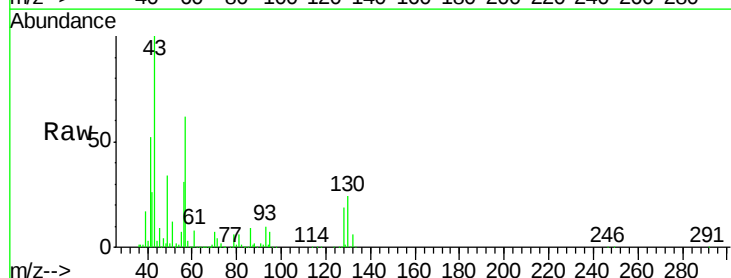
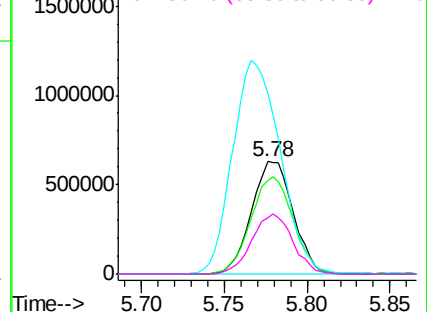
57 100

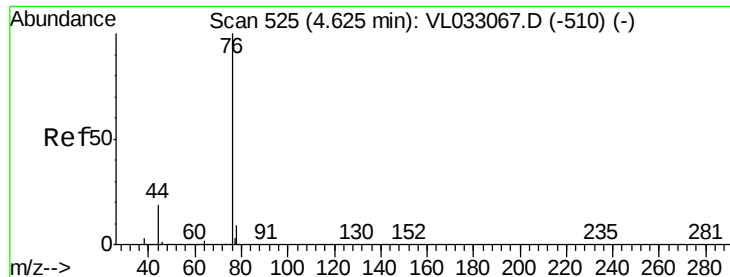
41 87.6 70.8 106.2

43 217.7 171.8 257.6

56 52.3 41.9 62.9

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





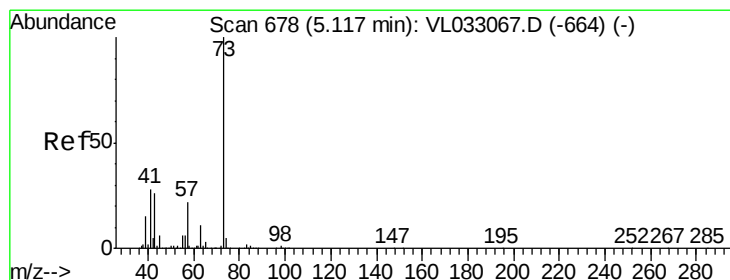
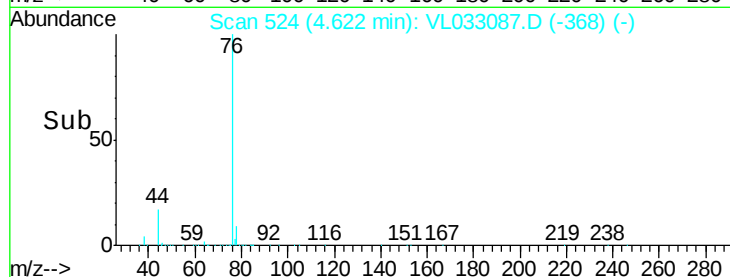
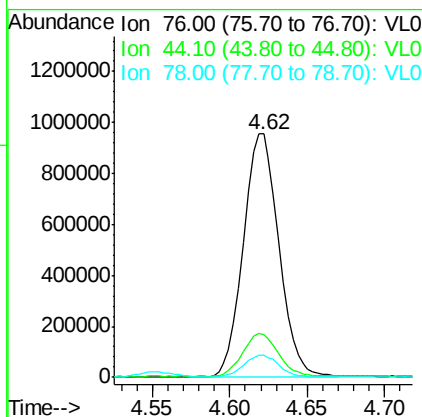
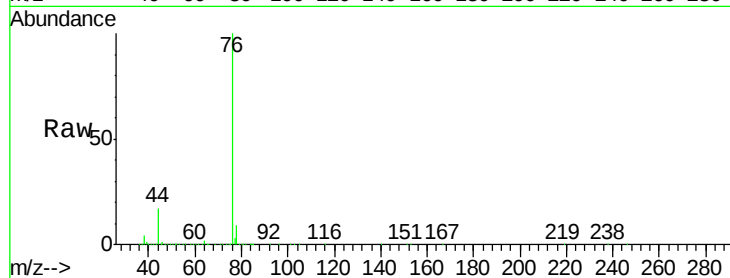
#27
Carbon Disulfide
Concen: 9.998 ppbv
RT: 4.62 min Scan# 524
Delta R.T. 0.00 min
Lab File: VL033087.D
Acq: 16 Jan 2019 9:35

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
76	100		
44	18.1	13.9	20.9
78	9.2	7.3	10.9

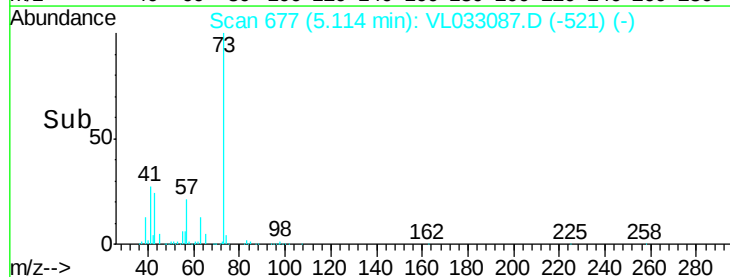
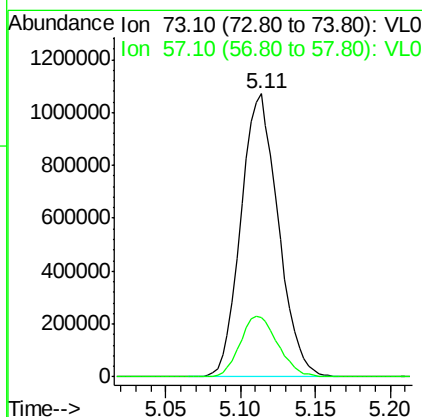
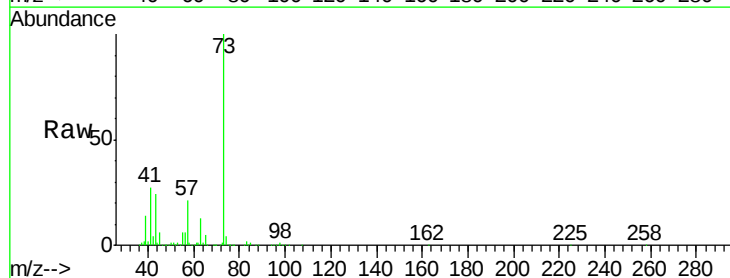
Manual Integrations
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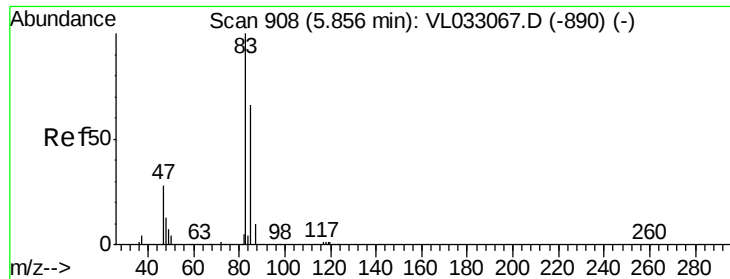
MMDadoda
1/17/2019 3:15:44 PM



#28
Methyl tert-Butyl Ether
Concen: 9.585 ppbv
RT: 5.11 min Scan# 677
Delta R.T. 0.00 min
Lab File: VL033087.D
Acq: 16 Jan 2019 9:35

Tgt Ion	Ratio	Lower	Upper
73	100		
57	21.8	17.5	26.3





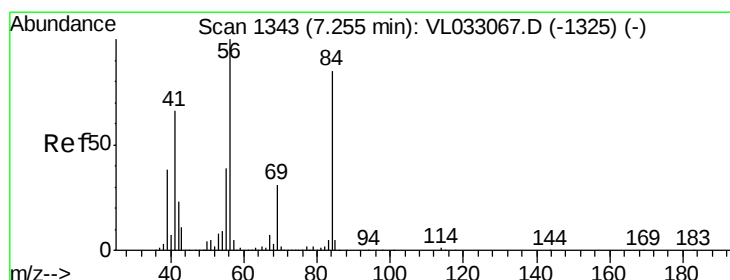
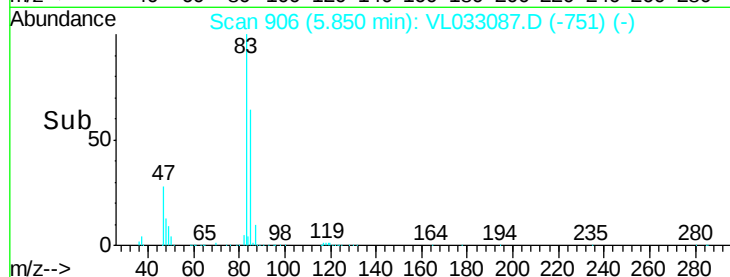
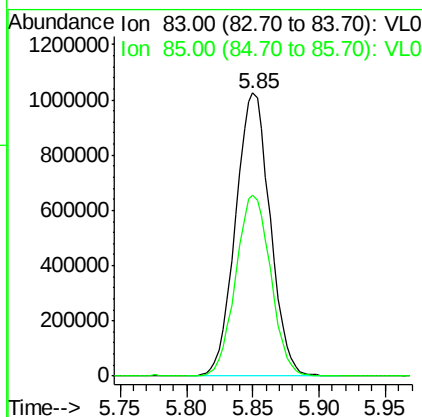
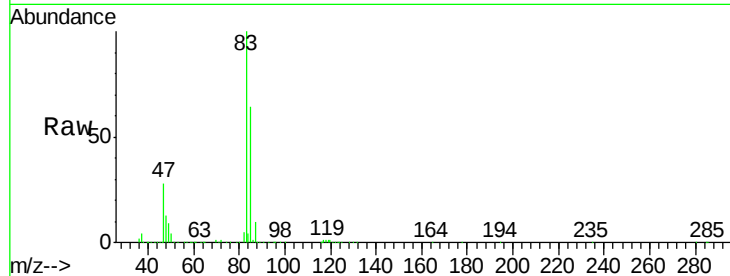
#29
Chloroform
Concen: 8.739 ppbv
RT: 5.85 min Scan# 906
Delta R.T. -0.00 min
Lab File: VL033087.D
Acq: 16 Jan 2019 9:35

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 83 Resp: 1854444
Ion Ratio Lower Upper
83 100
85 63.7 52.5 78.7

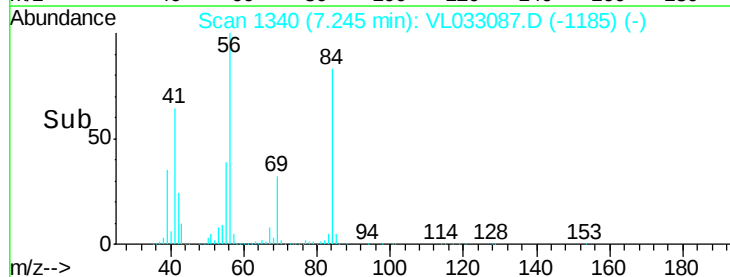
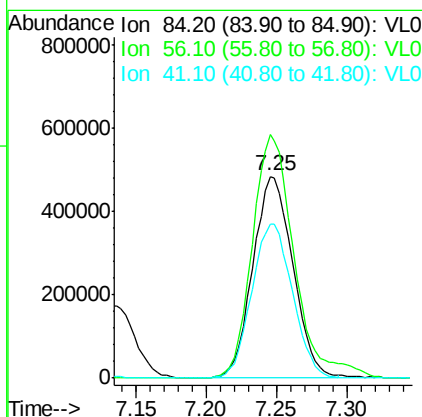
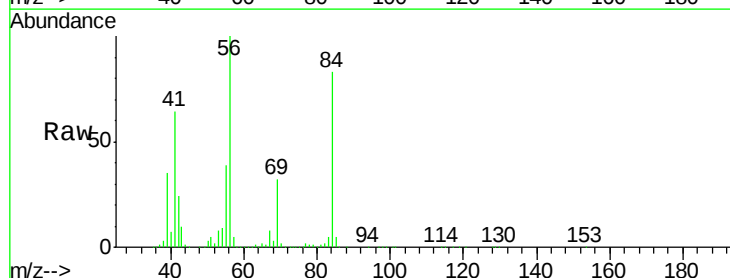
Manual Integrations
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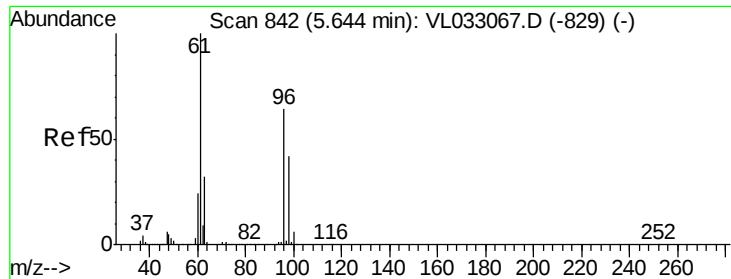
MMDadoda
1/17/2019 3:15:44 PM



#30
Cyclohexane
Concen: 10.344 ppbv
RT: 7.25 min Scan# 1340
Delta R.T. -0.00 min
Lab File: VL033087.D
Acq: 16 Jan 2019 9:35

Tgt Ion: 84 Resp: 960376
Ion Ratio Lower Upper
84 100
56 126.9 101.8 152.6
41 78.1 63.2 94.8





#31

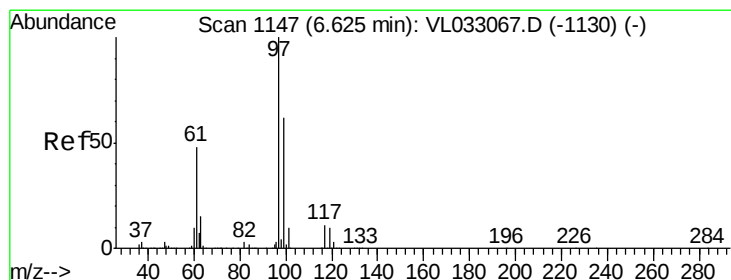
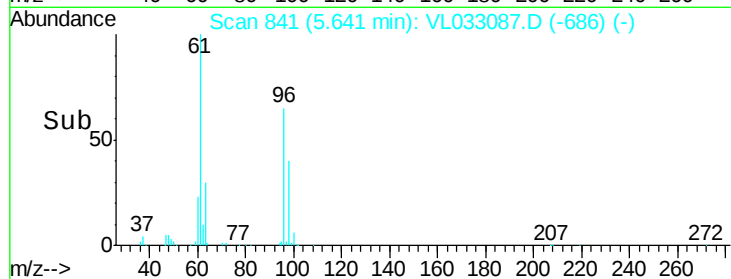
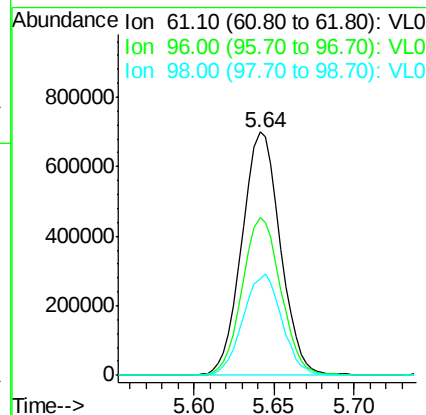
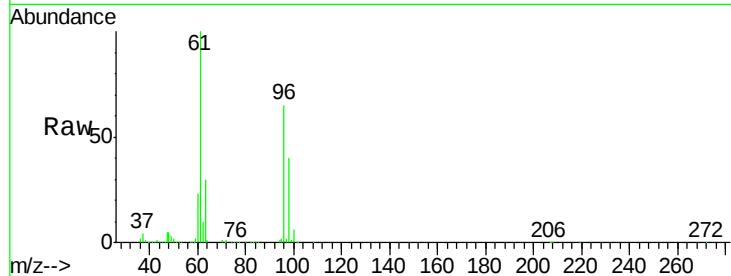
cis-1,2-Dichloroethene
 Concen: 9.911 ppbv
 RT: 5.64 min Scan# 841
 Delta R.T. -0.00 min
 Lab File: VL033087.D
 Acq: 16 Jan 2019 9:35

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
61	100		
96	64.8	52.8	79.2
98	39.6	33.8	50.6

Manual Integrations
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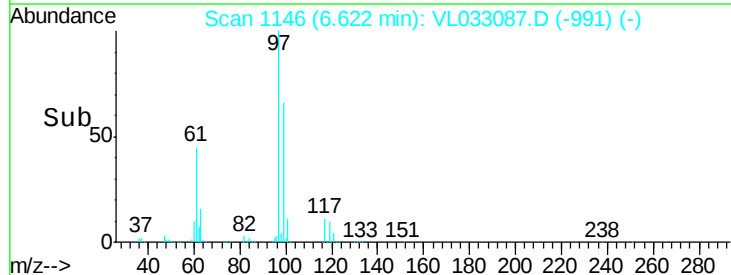
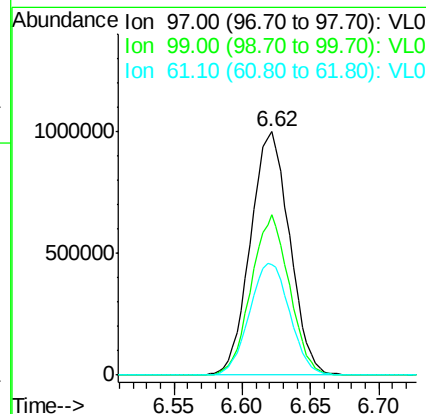
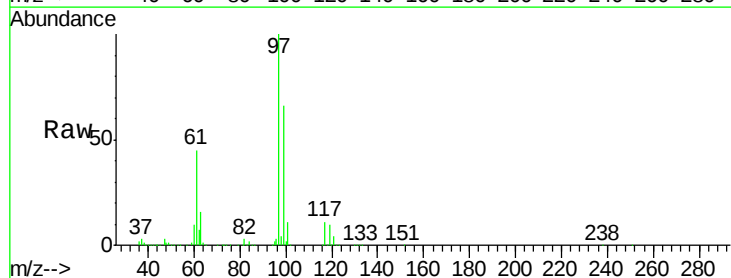
MMDadoda
 1/17/2019 3:15:44 PM

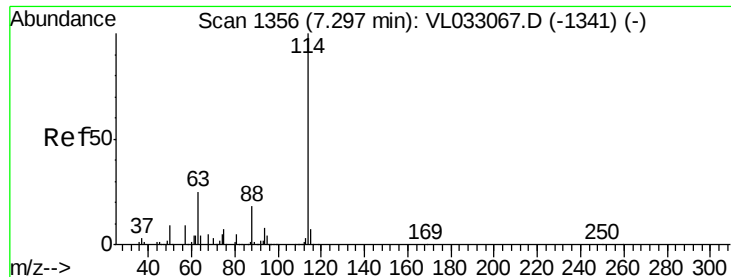


#32

1,1,1-Trichloroethane
 Concen: 9.263 ppbv
 RT: 6.62 min Scan# 1146
 Delta R.T. -0.00 min
 Lab File: VL033087.D
 Acq: 16 Jan 2019 9:35

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.2	51.1	76.7
61	47.4	38.3	57.5





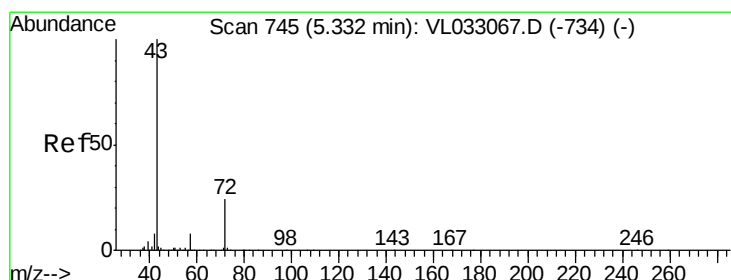
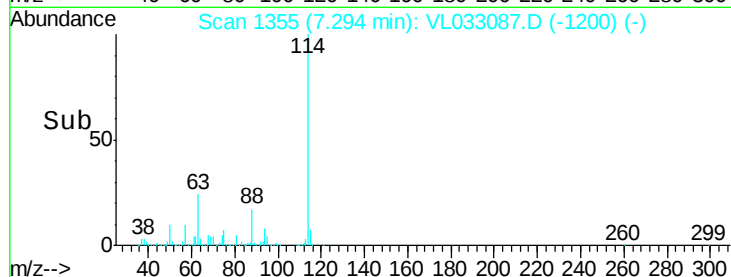
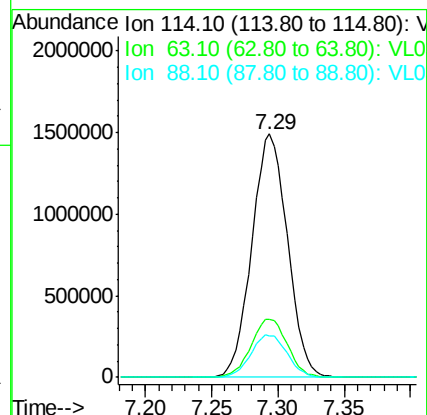
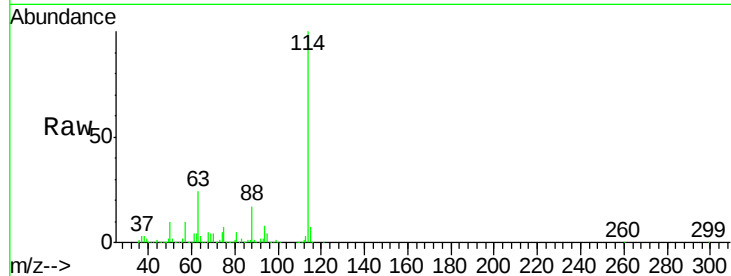
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1355
 Delta R.T. -0.00 min
 Lab File: VL033087.D
 Acq: 16 Jan 2019 9:35

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
114	100		
63	24.9	20.1	30.1
88	17.7	14.0	21.0

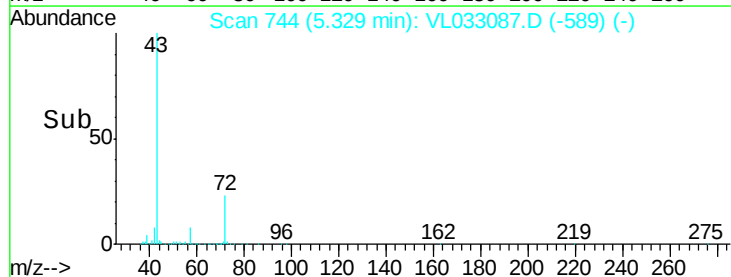
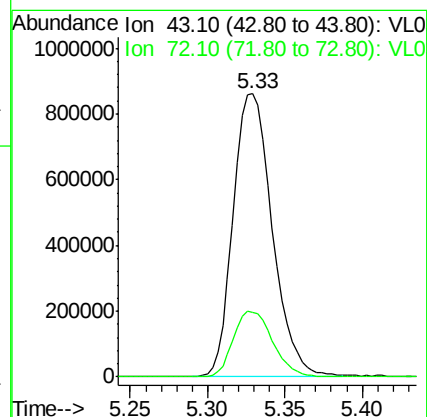
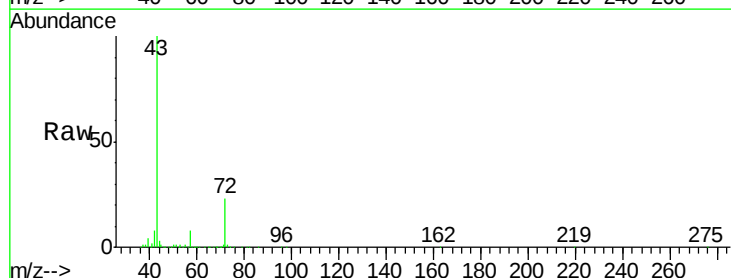
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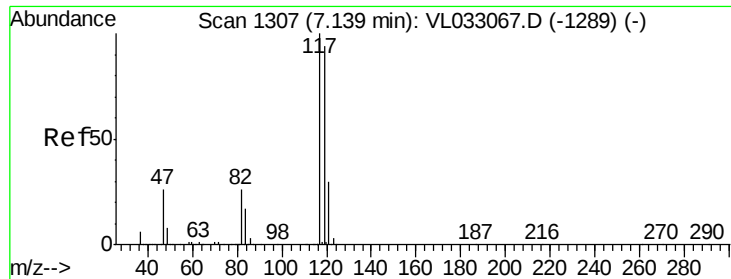
MMDadoda
 1/17/2019 3:15:44 PM



#34
 2-Butanone
 Concen: 9.289 ppbv
 RT: 5.33 min Scan# 744
 Delta R.T. -0.00 min
 Lab File: VL033087.D
 Acq: 16 Jan 2019 9:35

Tgt Ion	Ratio	Lower	Upper
43	100		
72	23.6	18.9	28.3





#35

Carbon Tetrachloride

Concen: 9.059 ppbv

RT: 7.13 min Scan# 1305

Delta R.T. -0.01 min

Lab File: VL033087.D

Acq: 16 Jan 2019 9:35

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:117 Resp: 2174302

Ion Ratio Lower Upper

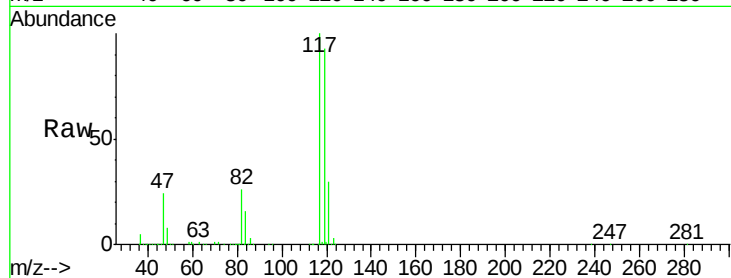
117 100

119 92.7 76.5 114.7

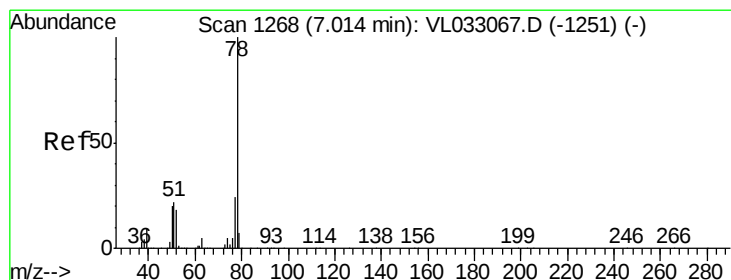
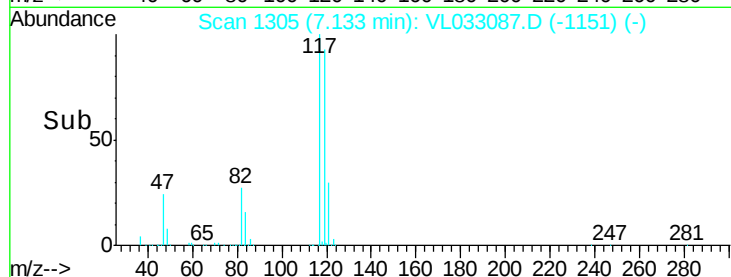
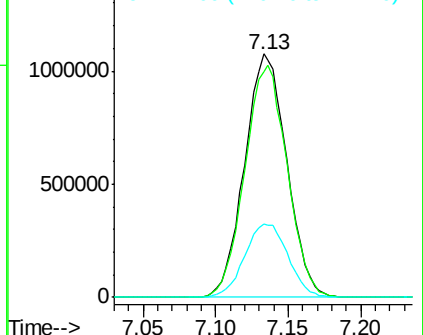
121 29.9 25.2 37.8

Manual Integrations
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Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V
Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 9.705 ppbv

RT: 7.01 min Scan# 1266

Delta R.T. -0.00 min

Lab File: VL033087.D

Acq: 16 Jan 2019 9:35

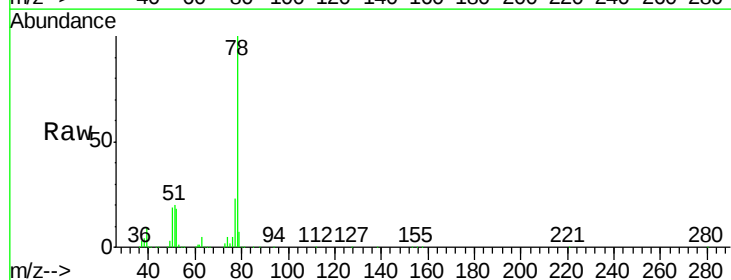
Tgt Ion: 78 Resp: 2221466

Ion Ratio Lower Upper

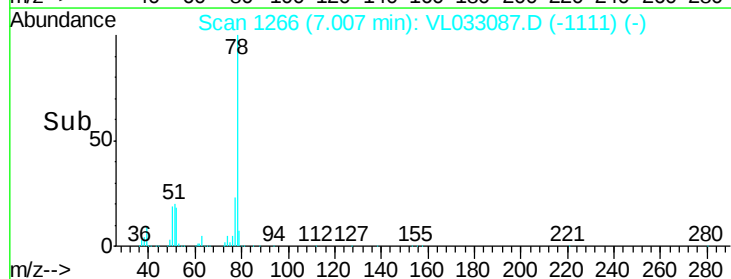
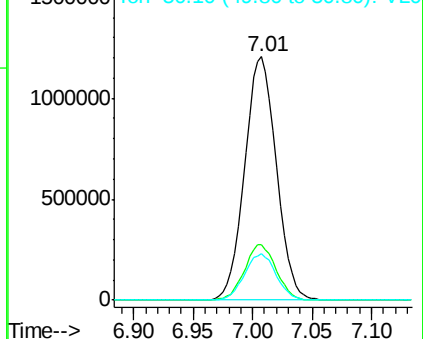
78 100

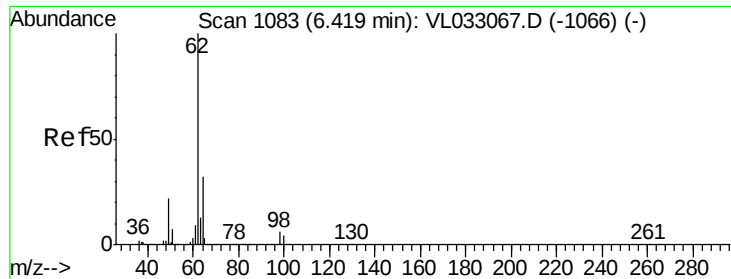
77 22.8 18.5 27.7

50 19.3 15.7 23.5



Abundance Ion 78.10 (77.80 to 78.80): VL0
Ion 77.10 (76.80 to 77.80): VL0
Ion 50.10 (49.80 to 50.80): VL0





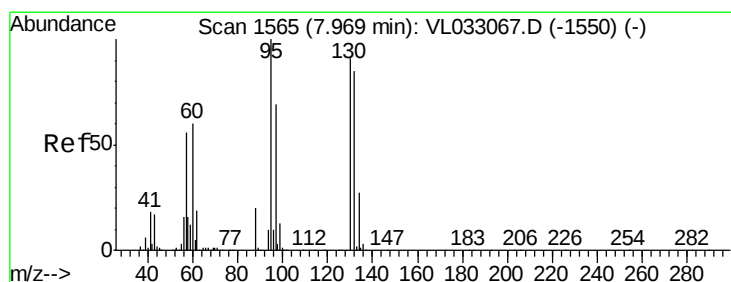
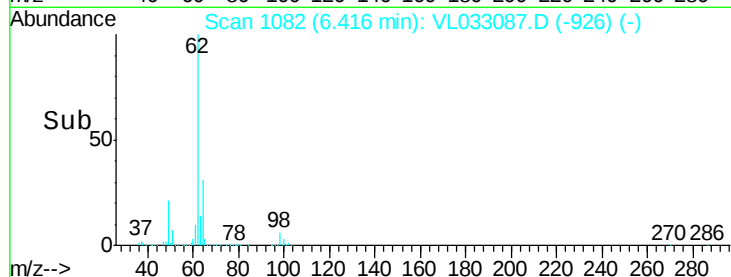
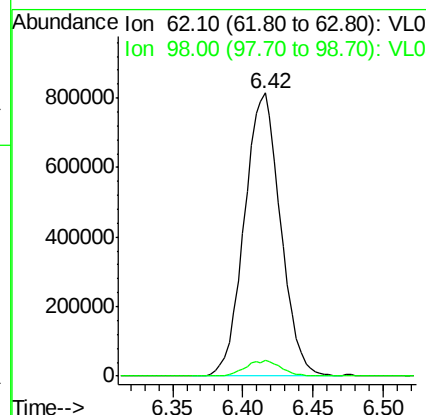
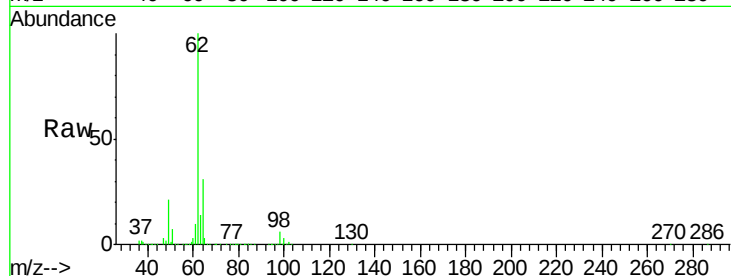
#37
 1,2-Dichloroethane
 Concen: 9.165 ppbv
 RT: 6.42 min Scan# 1082
 Delta R.T. 0.00 min
 Lab File: VL033087.D
 Acq: 16 Jan 2019 9:35

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion: 62 Resp: 1464758
 Ion Ratio Lower Upper
 62 100
 98 5.4 4.6 7.0

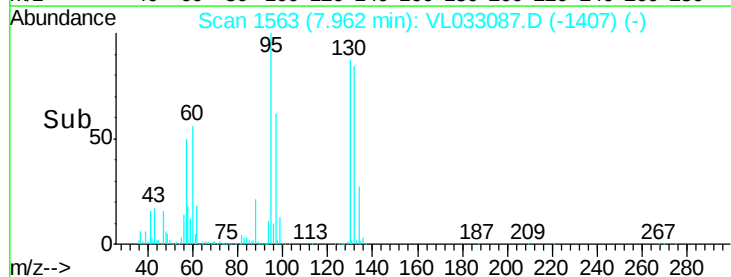
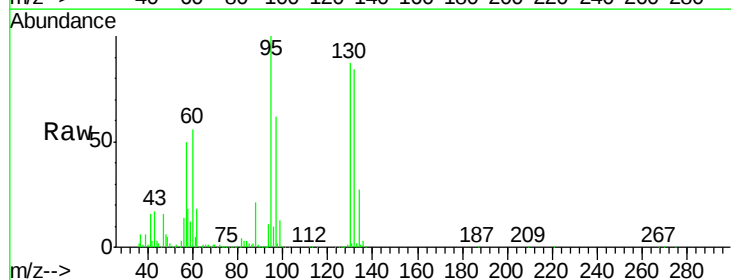
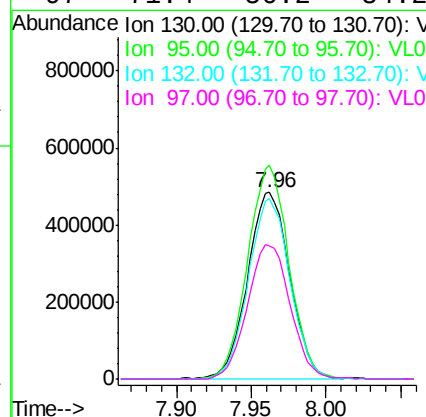
Manual Integrations
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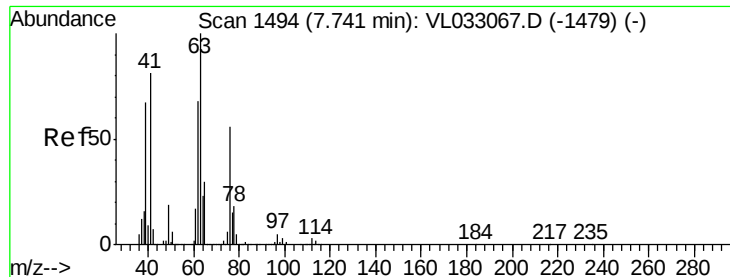
MMDadoda
 1/17/2019 3:15:44 PM



#38
 Trichloroethene
 Concen: 10.006 ppbv
 RT: 7.96 min Scan# 1563
 Delta R.T. 0.00 min
 Lab File: VL033087.D
 Acq: 16 Jan 2019 9:35

Tgt Ion: 130 Resp: 942221
 Ion Ratio Lower Upper
 130 100
 95 114.7 88.6 132.8
 132 96.8 74.2 111.2
 97 71.4 56.2 84.2





#39

1,2-Dichloropropane

Concen: 9.610 ppbv

RT: 7.74 min Scan# 1493

Delta R.T. -0.01 min

Lab File: VL033087.D

Acq: 16 Jan 2019 9:35

Instrument :

MSVOA_L

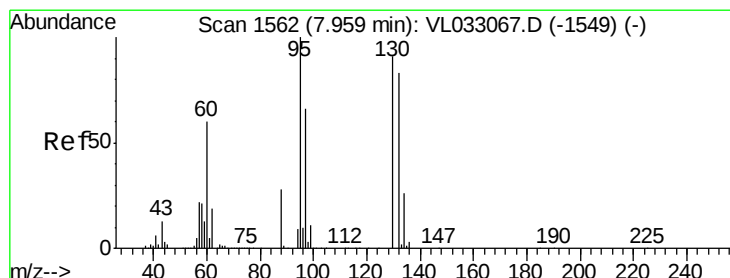
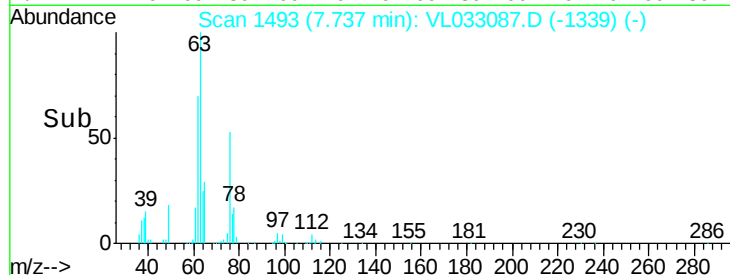
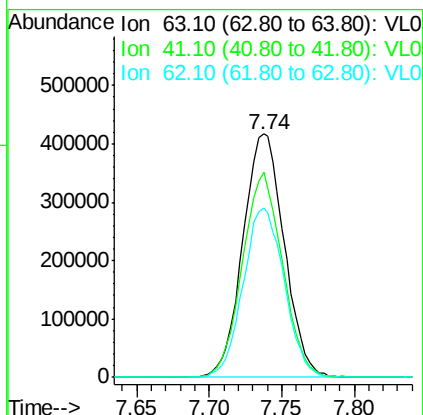
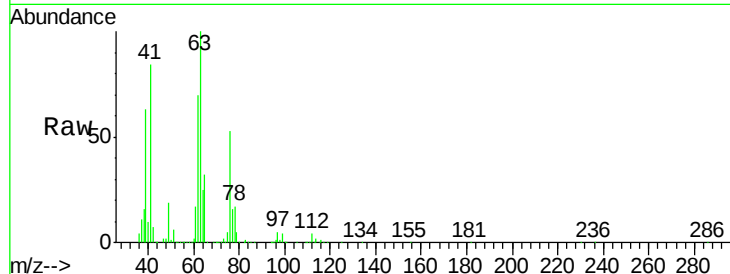
ClientSampleId :

VSTDCCC010

Tot Ion:	63	Resp:	826372
Ion Ratio	Lower	Upper	
63	100		
41	84.2	61.9	92.9
62	69.6	55.8	83.6

Manual Integrations
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#40

1,4-Dioxane

Concen: 9.747 ppbv

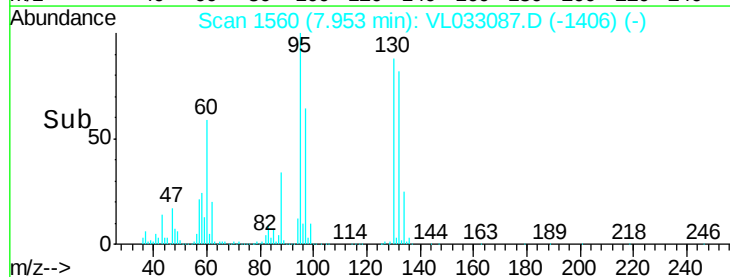
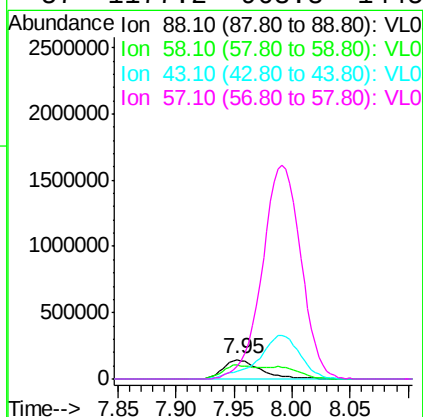
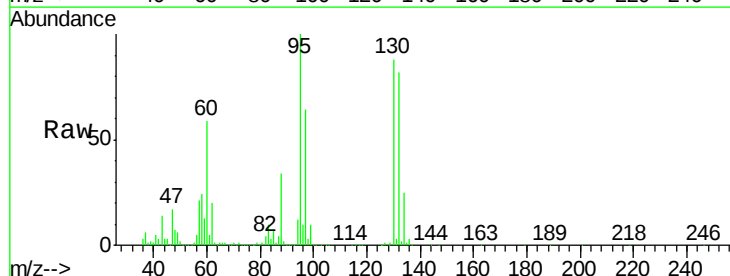
RT: 7.95 min Scan# 1560

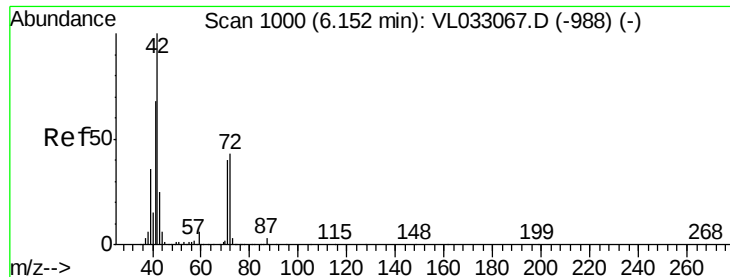
Delta R.T. -0.01 min

Lab File: VL033087.D

Acq: 16 Jan 2019 9:35

Tgt Ion:	88	Resp:	318167
Ion Ratio	Lower	Upper	
88	100		
58	126.6	101.9	152.9
43	262.5	212.6	319.0
57	1177.2	963.8	1445.6





#41

Tetrahydrofuran

Concen: 10.219 ppbv

RT: 6.15 min Scan# 998

Delta R.T. -0.01 min

Lab File: VL033087.D

Acq: 16 Jan 2019 9:35

Instrument :

MSVOA_L

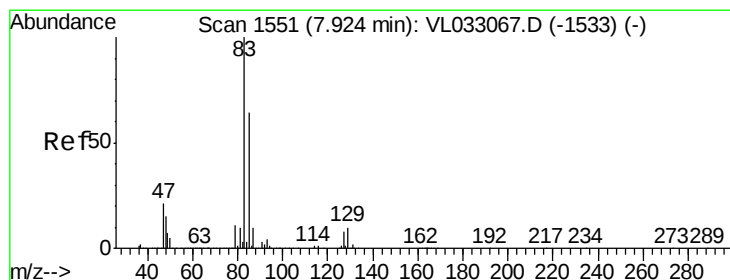
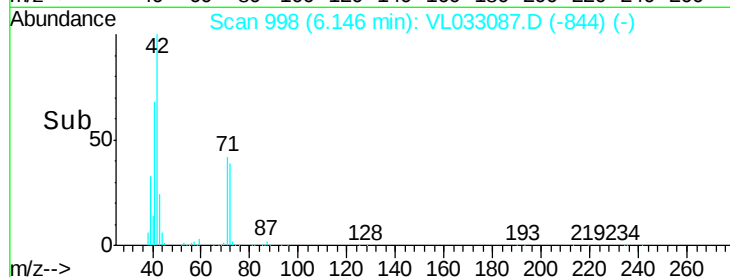
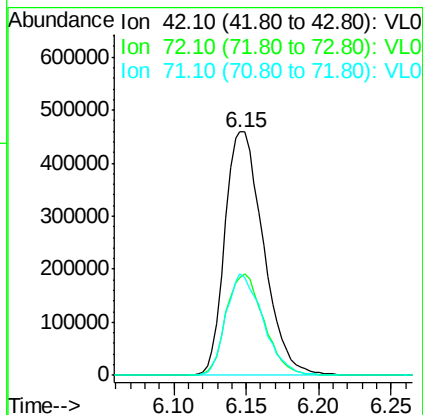
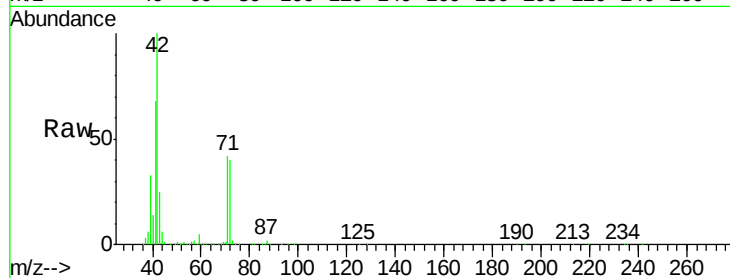
ClientSampleId :

VSTDCCC010

Tot Ion:	42	Resp:	844540
Ion Ratio		Lower	Upper
42	100		
72	41.3	32.9	49.3
71	40.3	31.8	47.6

Manual Integrations
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1/17/2019 3:15:44 PM



#42

Bromodichloromethane

Concen: 9.220 ppbv

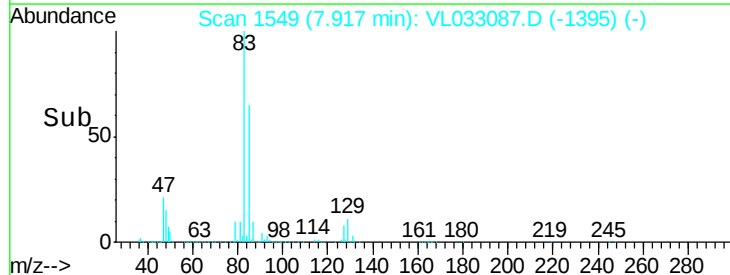
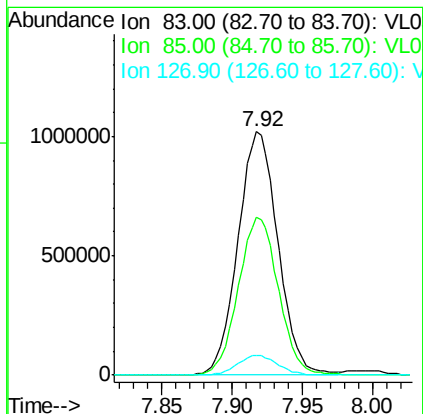
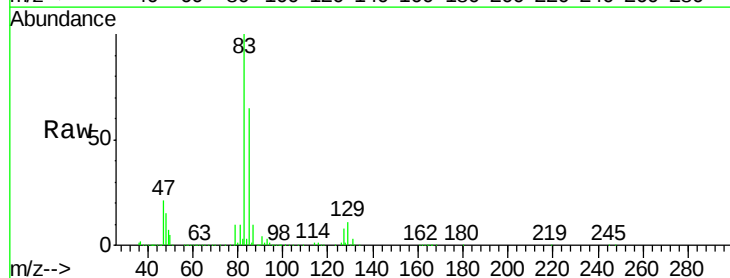
RT: 7.92 min Scan# 1549

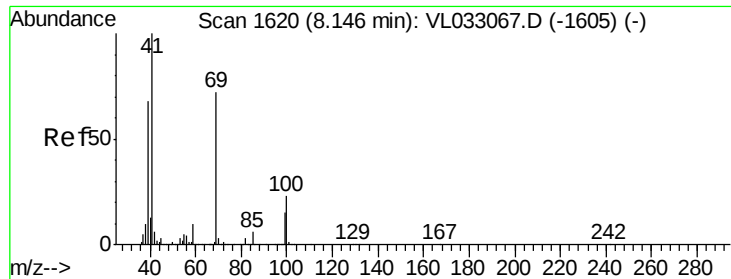
Delta R.T. -0.01 min

Lab File: VL033087.D

Acq: 16 Jan 2019 9:35

Tgt Ion:	83	Resp:	2024257
Ion Ratio		Lower	Upper
83	100		
85	65.0	51.0	76.4
127	8.0	6.5	9.7





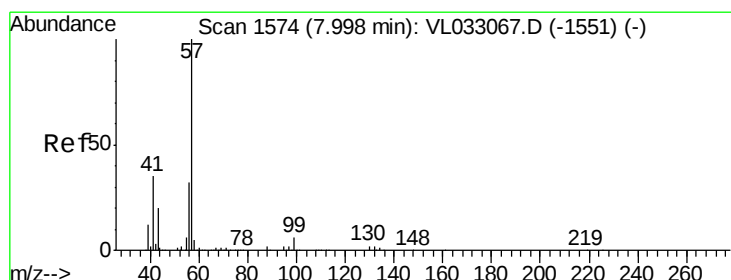
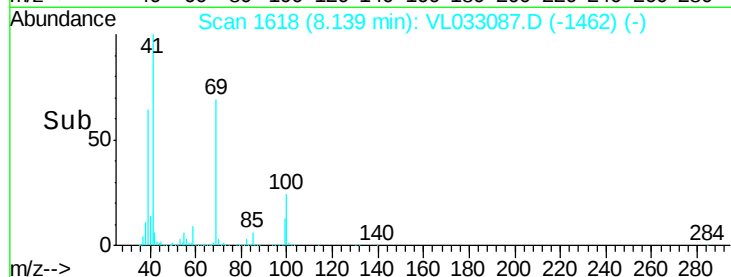
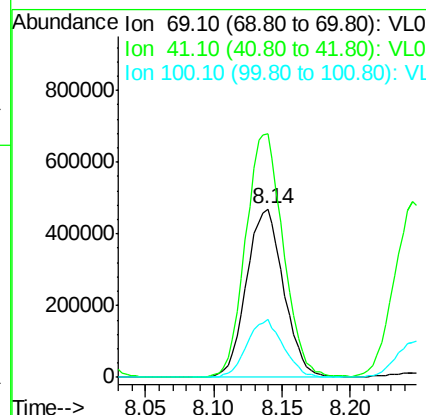
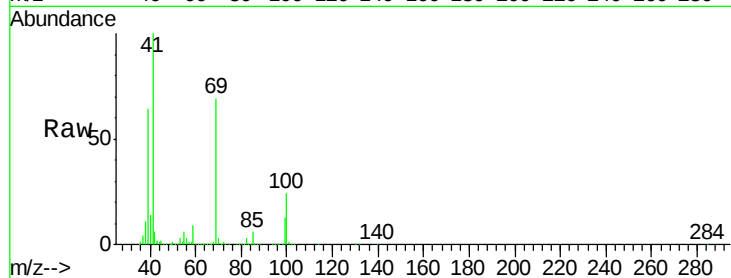
#43
Methyl Methacrylate
Concen: 10.338 ppbv
RT: 8.14 min Scan# 1618
Delta R.T. 0.00 min
Lab File: VL033087.D
Acq: 16 Jan 2019 9:35

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ion	Ratio	Lower	Upper
69	100			
41	146.7	114.0	171.0	
100	33.4	26.3	39.5	

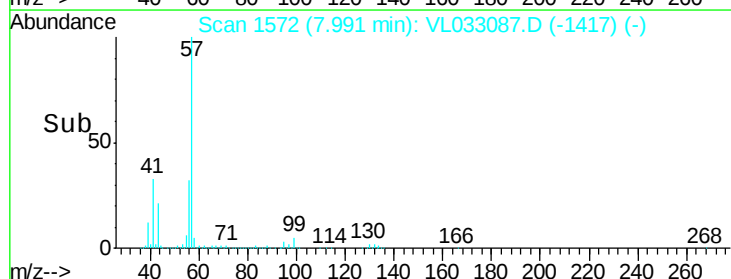
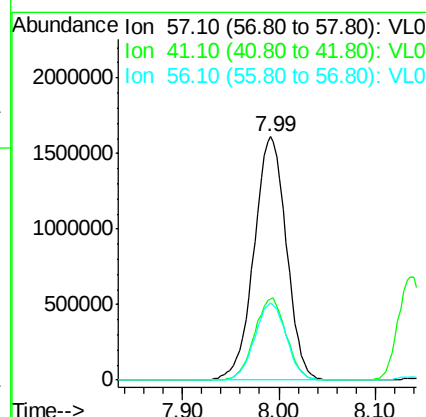
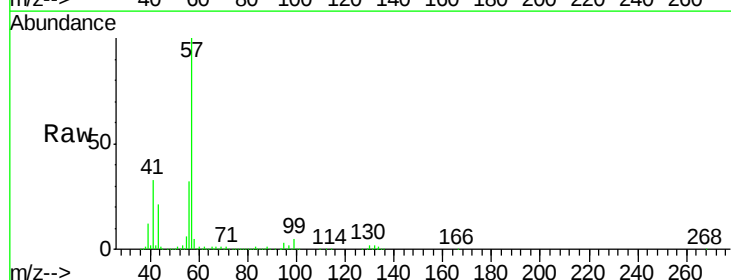
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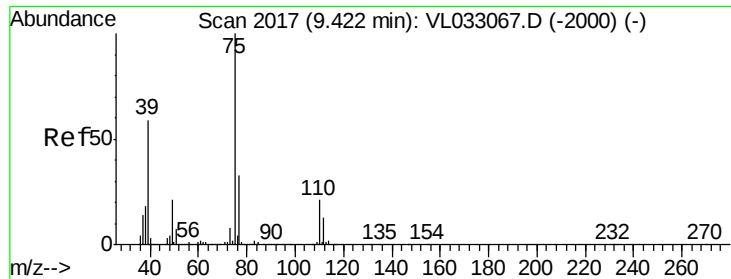
MMDadoda
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#44
2,2,4-Trimethylpentane
Concen: 9.656 ppbv
RT: 7.99 min Scan# 1572
Delta R.T. -0.00 min
Lab File: VL033087.D
Acq: 16 Jan 2019 9:35

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	33.1	26.2	39.2	
56	31.1	24.9	37.3	





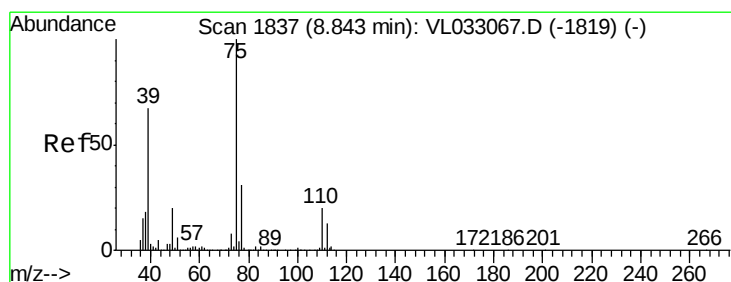
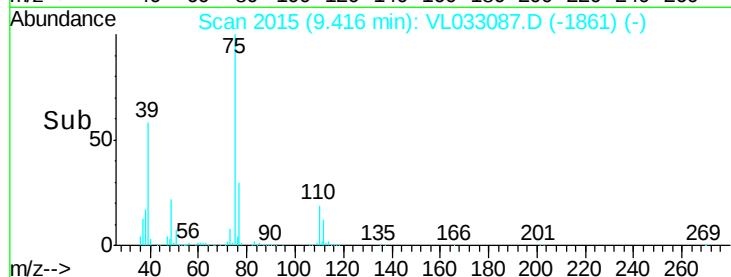
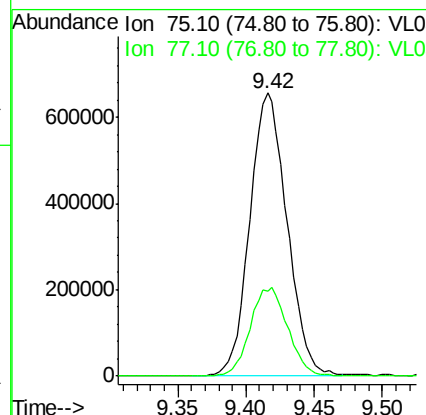
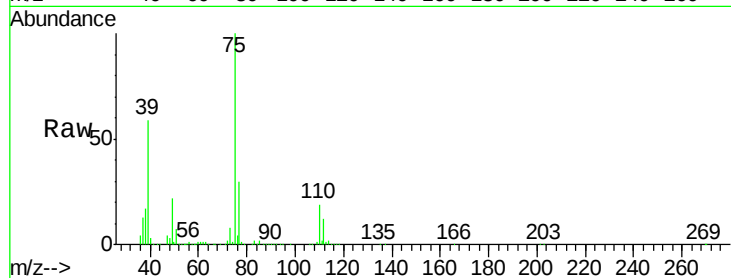
#45
t-1,3-Dichloropropene
Concen: 11.595 ppbv
RT: 9.42 min Scan# 2015
Delta R.T. -0.01 min
Lab File: VL033087.D
Acq: 16 Jan 2019 9:35

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 75 Resp: 1239729
Ion Ratio Lower Upper
75 100
77 30.0 24.8 37.2

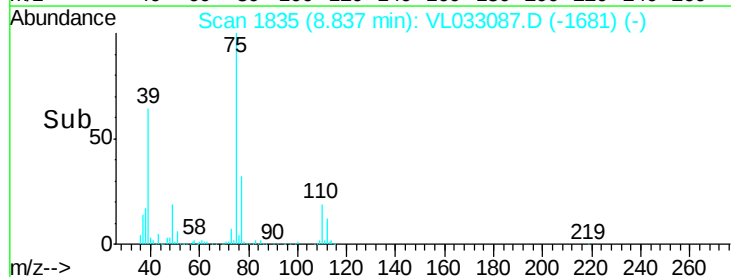
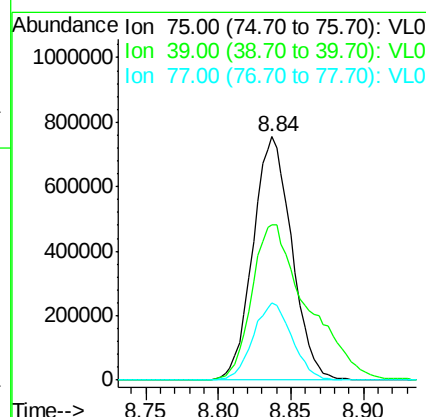
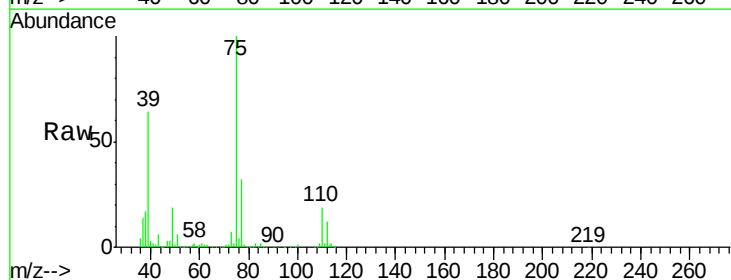
Manual Integrations
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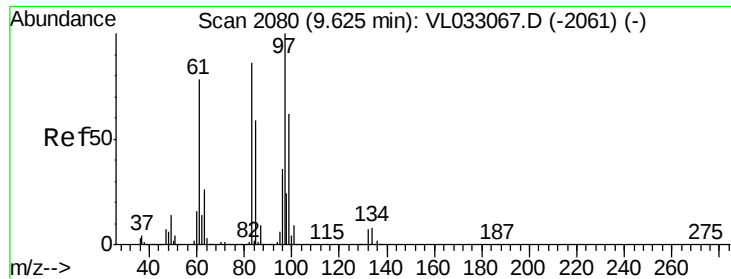
MMDadoda
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#46
cis-1,3-Dichloropropene
Concen: 11.512 ppbv
RT: 8.84 min Scan# 1835
Delta R.T. -0.01 min
Lab File: VL033087.D
Acq: 16 Jan 2019 9:35

Tgt Ion: 75 Resp: 1404752
Ion Ratio Lower Upper
75 100
39 63.8 51.3 76.9
77 31.7 25.5 38.3





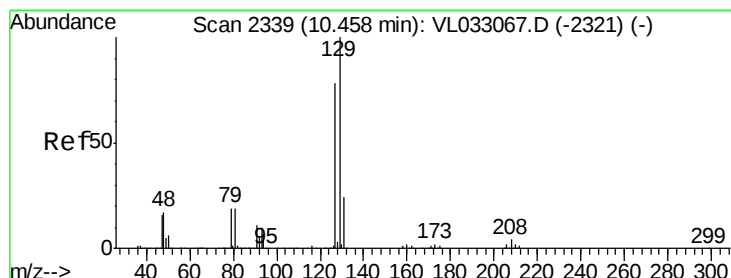
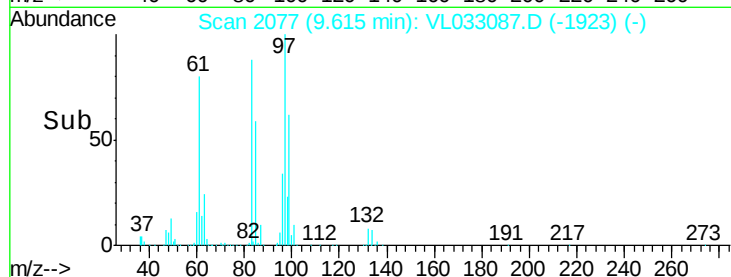
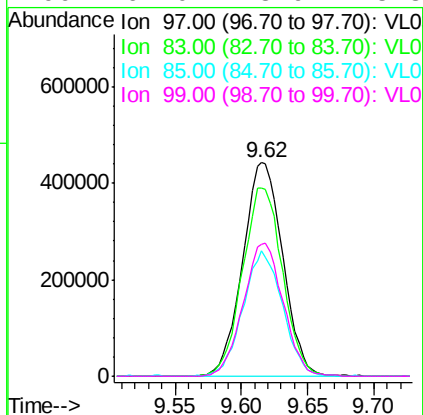
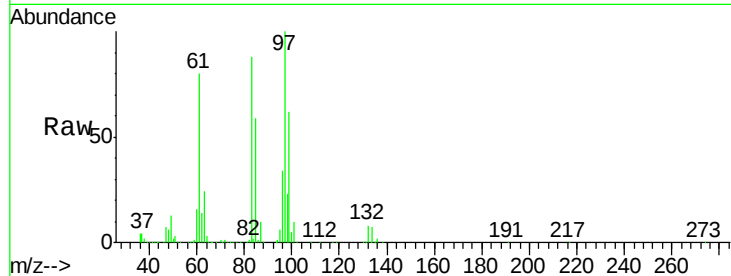
#47
 1,1,2-Trichloroethane
 Concen: 9.267 ppbv
 RT: 9.62 min Scan# 2077
 Delta R.T. -0.01 min
 Lab File: VL033087.D
 Acq: 16 Jan 2019 9:35

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
97	100		
83	88.3	69.4	104.2
85	58.7	44.2	66.2
99	62.0	48.9	73.3

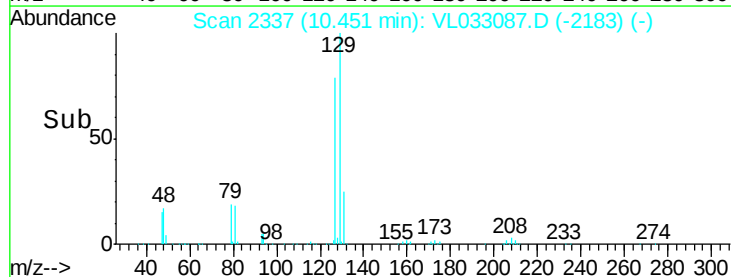
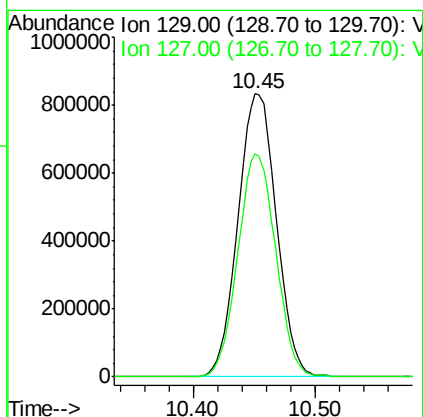
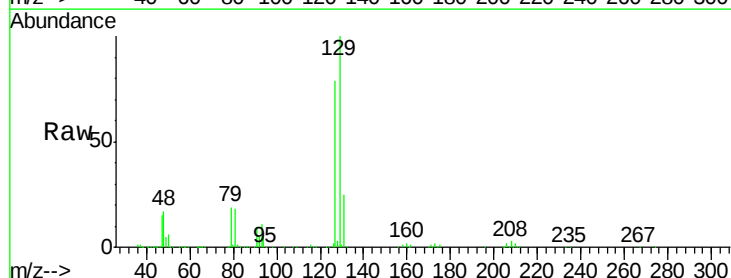
Manual Integrations
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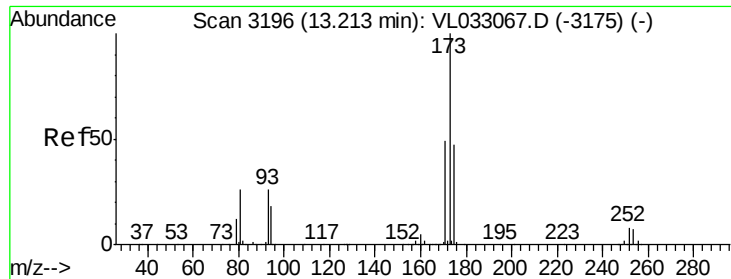
MMDadoda
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#48
 Dibromochloromethane
 Concen: 10.206 ppbv
 RT: 10.45 min Scan# 2337
 Delta R.T. -0.01 min
 Lab File: VL033087.D
 Acq: 16 Jan 2019 9:35

Tgt Ion	Ratio	Lower	Upper
129	100		
127	78.0	39.1	117.3





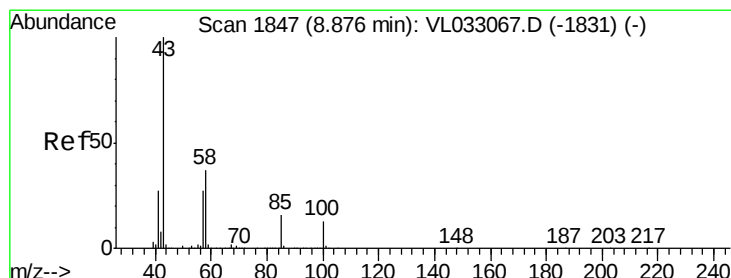
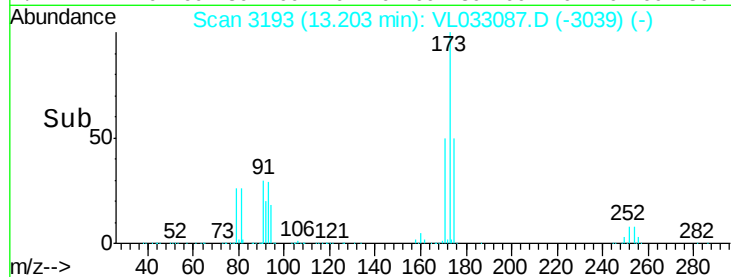
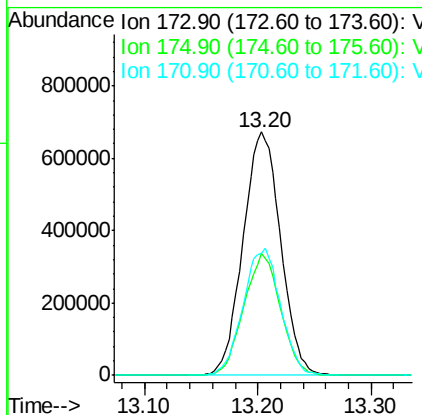
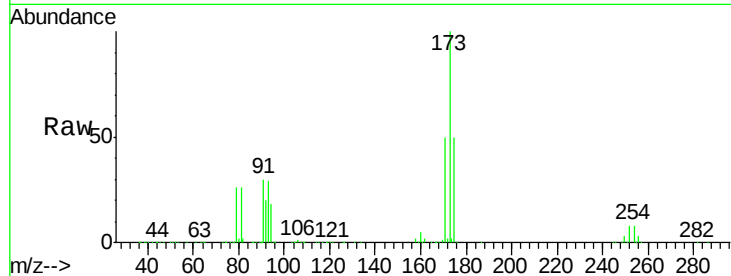
#49
Bromoform
Concen: 10.011 ppbv
RT: 13.20 min Scan# 3193
Delta R.T. -0.01 min
Lab File: VL033087.D
Acq: 16 Jan 2019 9:35

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion:173 Resp: 1552611
Ion Ratio Lower Upper
173 100
175 48.9 39.4 59.2
171 52.3 42.1 63.1

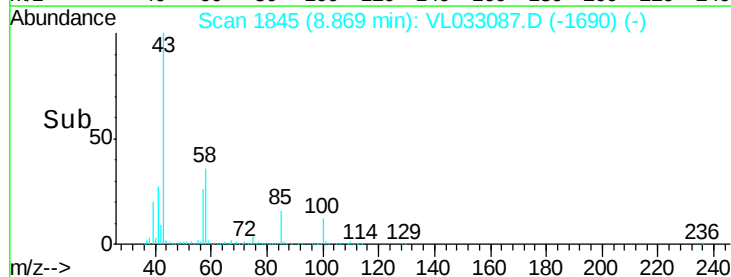
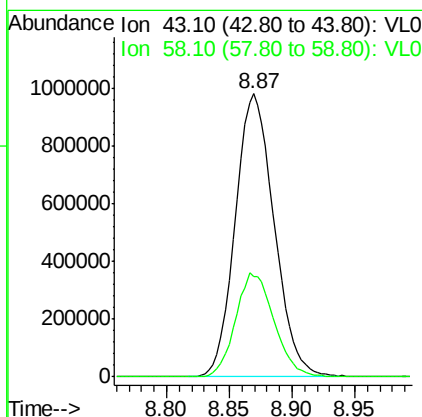
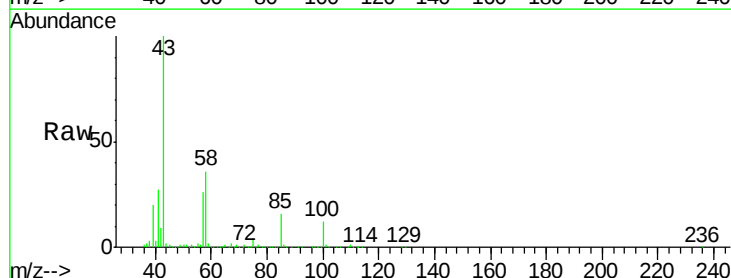
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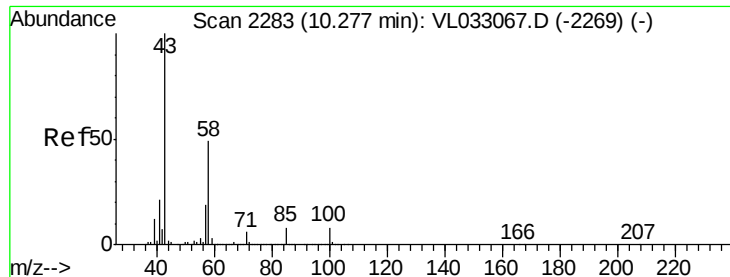
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#50
4-Methyl-2-Pentanone
Concen: 10.236 ppbv
RT: 8.87 min Scan# 1845
Delta R.T. -0.00 min
Lab File: VL033087.D
Acq: 16 Jan 2019 9:35

Tgt Ion: 43 Resp: 2105844
Ion Ratio Lower Upper
43 100
58 36.4 28.9 43.3





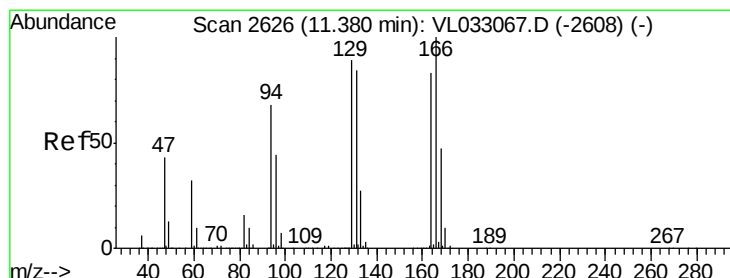
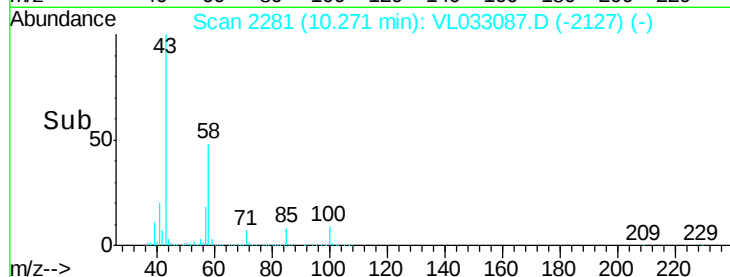
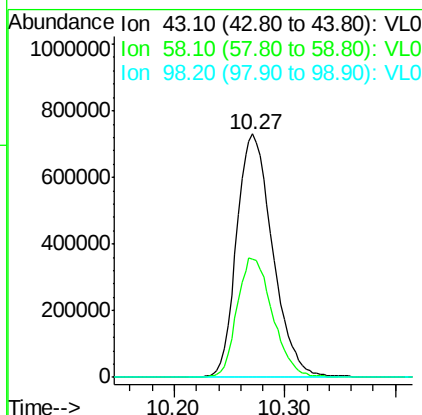
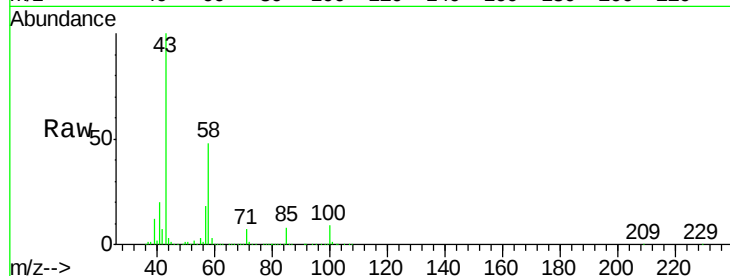
#51
2-Hexanone
Concen: 11.089 ppbv
RT: 10.27 min Scan# 2281
Delta R.T. -0.01 min
Lab File: VL033087.D
Acq: 16 Jan 2019 9:35

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
43	100		
58	48.6	39.0	58.6
98	0.5	0.4	0.6

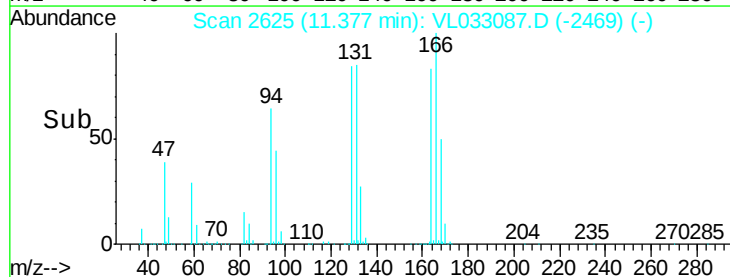
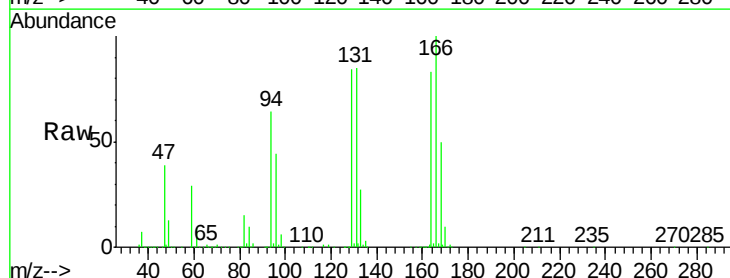
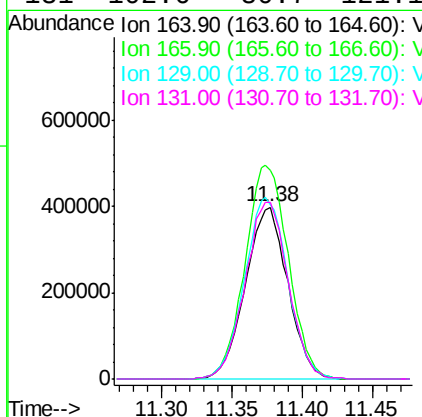
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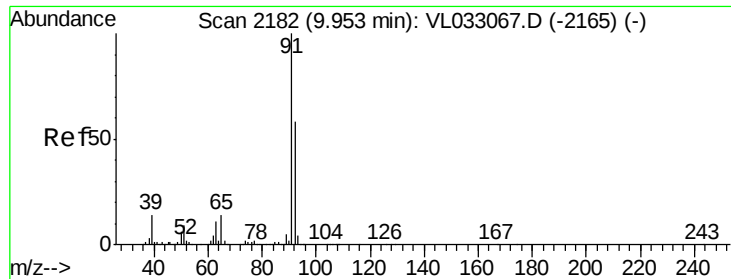
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#52
Tetrachloroethene
Concen: 10.330 ppbv
RT: 11.38 min Scan# 2625
Delta R.T. 0.00 min
Lab File: VL033087.D
Acq: 16 Jan 2019 9:35

Tgt Ion	Ratio	Lower	Upper
164	100		
166	121.0	100.8	151.2
129	101.5	84.6	126.8
131	102.6	80.7	121.1





#53

Toluene

Concen: 10.761 ppbv

RT: 9.95 min Scan# 2180

Delta R.T. -0.01 min

Lab File: VL033087.D

Acq: 16 Jan 2019 9:35

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 91 Resp: 2639917

Ion Ratio Lower Upper

91 100

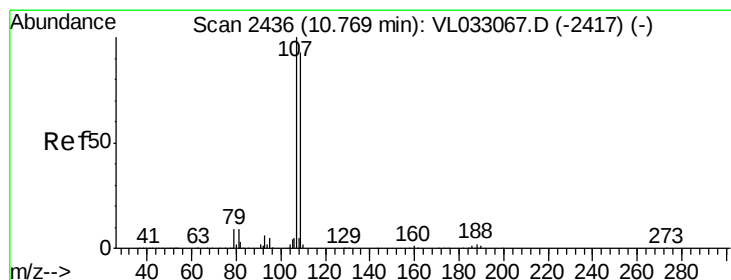
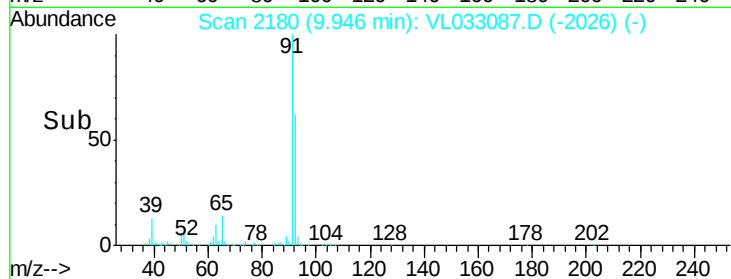
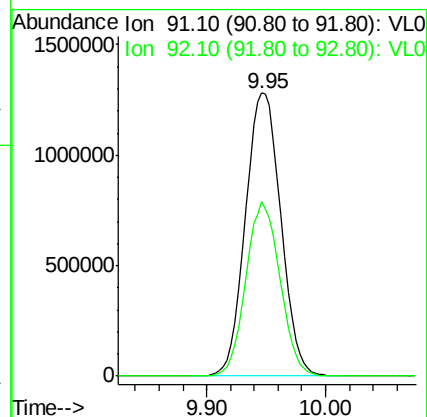
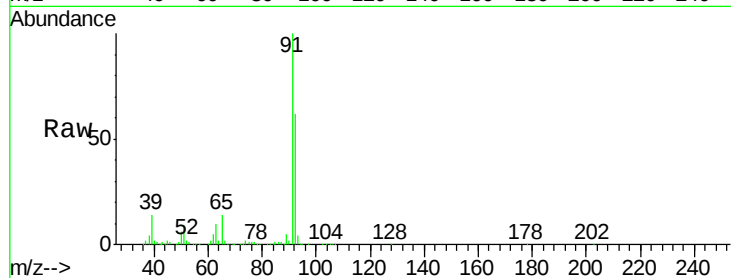
92 59.5 47.7 71.5

Manual Integrations

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#54

1,2-Dibromoethane

Concen: 10.246 ppbv

RT: 10.76 min Scan# 2434

Delta R.T. -0.00 min

Lab File: VL033087.D

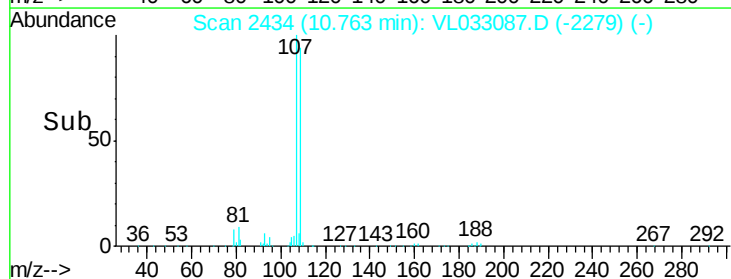
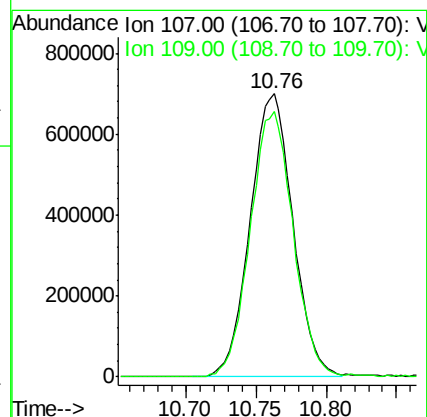
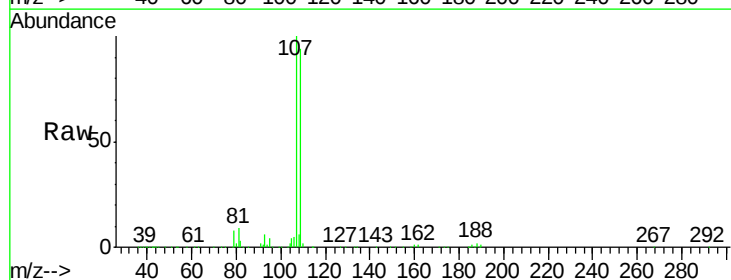
Acq: 16 Jan 2019 9:35

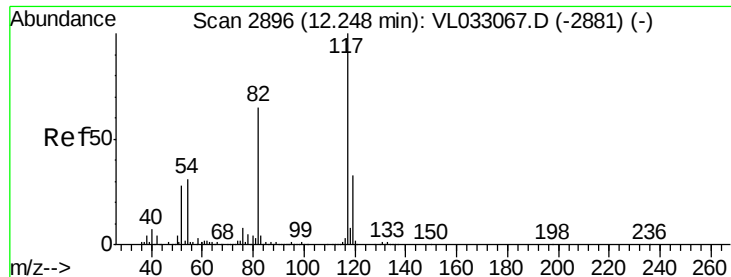
Tgt Ion: 107 Resp: 1483104

Ion Ratio Lower Upper

107 100

109 93.7 74.9 112.3





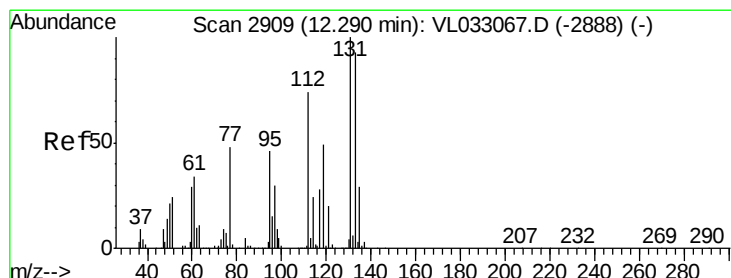
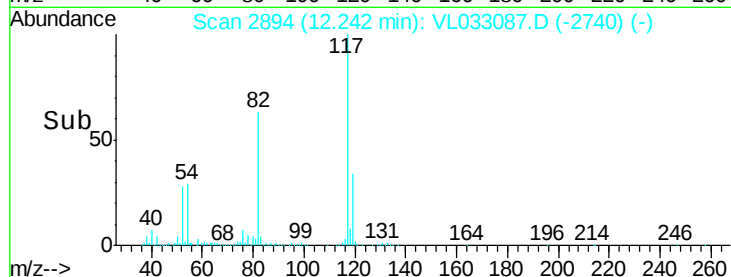
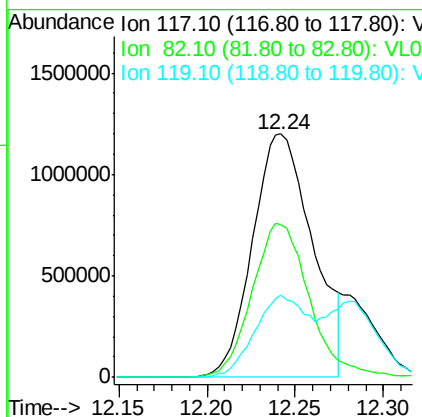
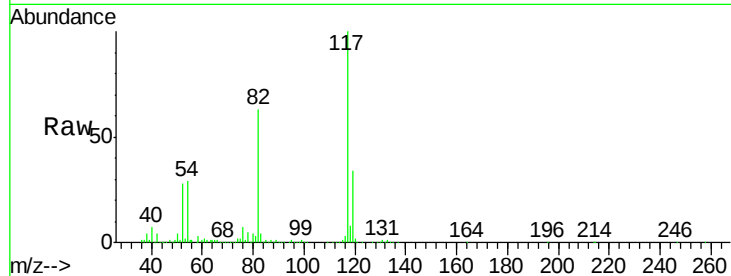
#55
Chlorobenzene-d5
Concen: 10.000 ppbv m
RT: 12.24 min Scan# 2894
Delta R.T. -0.01 min
Lab File: VL033087.D
Acq: 16 Jan 2019 9:35

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion:117 Resp: 2835503
Ion Ratio Lower Upper
117 100
82 60.8 48.9 73.3
119 31.8 24.6 37.0

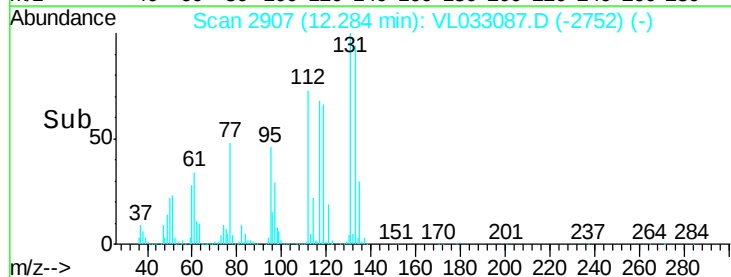
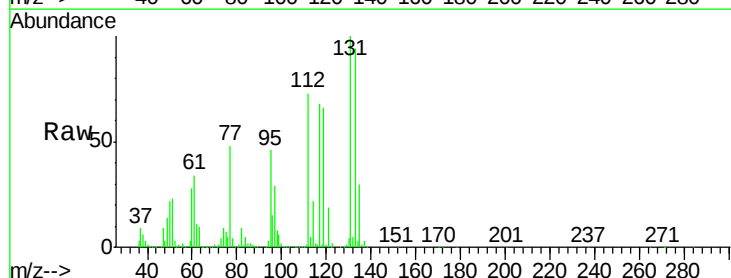
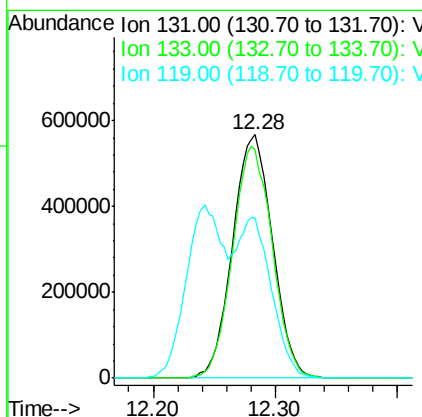
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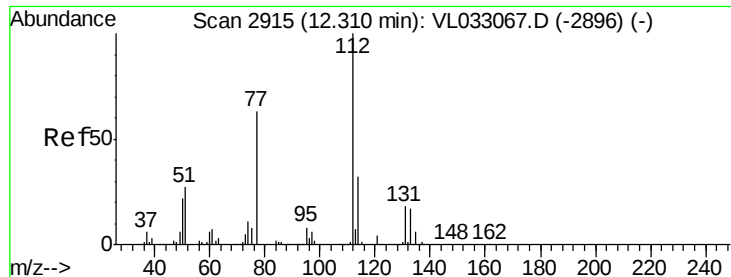
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#56
1,1,1,2-Tetrachloroethane
Concen: 8.738 ppbv
RT: 12.28 min Scan# 2907
Delta R.T. -0.00 min
Lab File: VL033087.D
Acq: 16 Jan 2019 9:35

Tgt Ion:131 Resp: 1280170
Ion Ratio Lower Upper
131 100
133 95.4 76.0 114.0
119 56.2 44.2 66.2





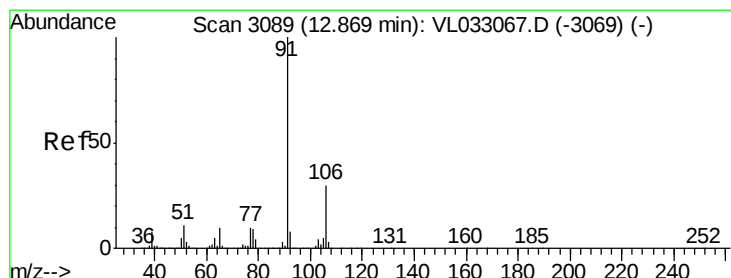
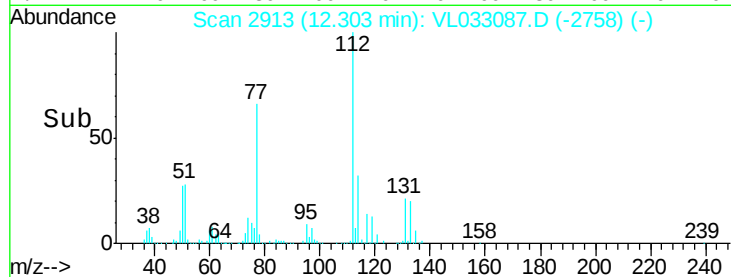
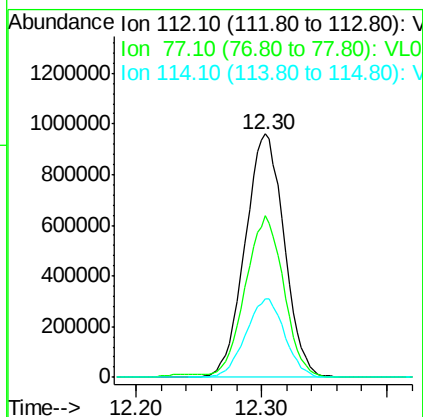
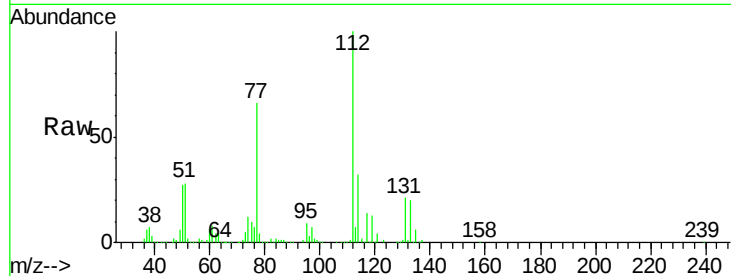
#57
Chlorobenzene
Concen: 8.807 ppbv
RT: 12.30 min Scan# 2913
Delta R.T. -0.00 min
Lab File: VL033087.D
Acq: 16 Jan 2019 9:35

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion:112 Resp: 2084420
Ion Ratio Lower Upper
112 100
77 66.3 53.4 80.0
114 32.1 30.0 36.6

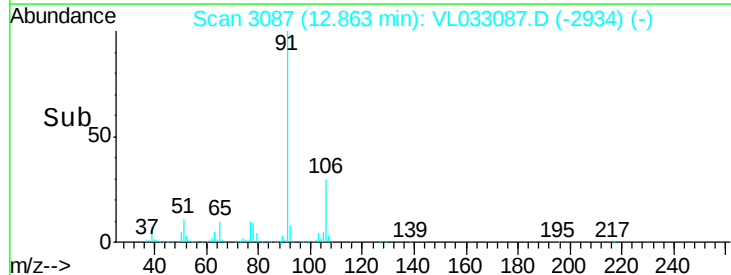
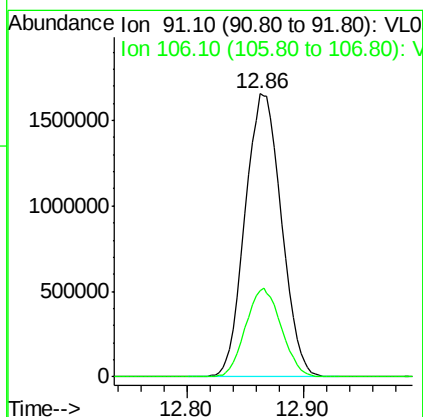
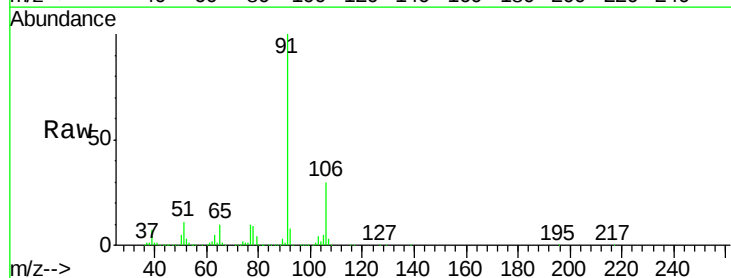
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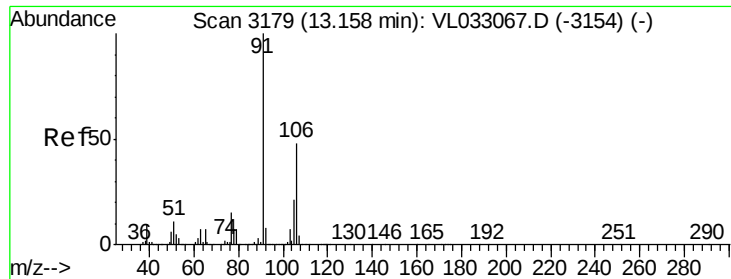
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#58
Ethyl Benzene
Concen: 10.115 ppbv
RT: 12.86 min Scan# 3087
Delta R.T. -0.01 min
Lab File: VL033087.D
Acq: 16 Jan 2019 9:35

Tgt Ion: 91 Resp: 3621286
Ion Ratio Lower Upper
91 100
106 30.4 24.3 36.5





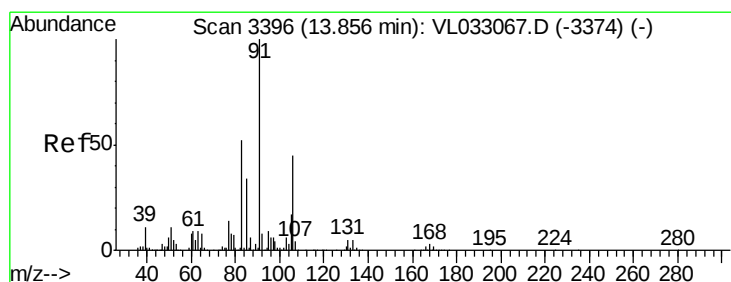
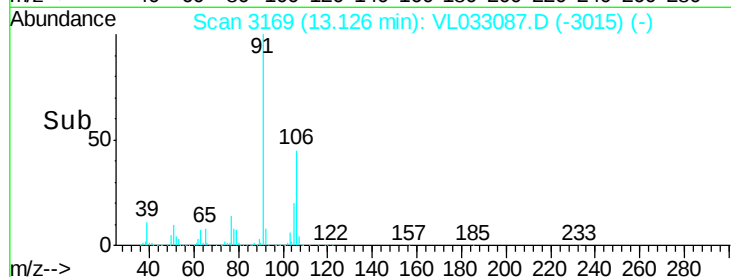
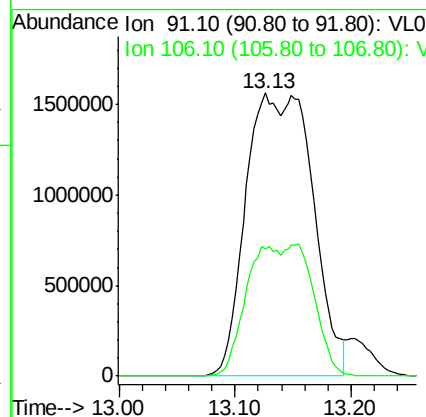
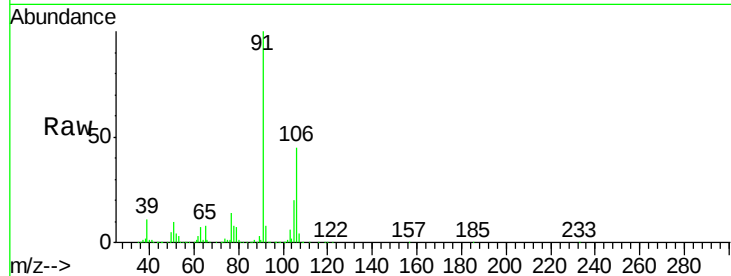
#59
m/p-Xylene
Concen: 18.822 ppbv m
RT: 13.13 min Scan# 3169
Delta R.T. -0.01 min
Lab File: VL033087.D
Acq: 16 Jan 2019 9:35

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 91 Resp: 6233610
Ion Ratio Lower Upper
91 100
106 0.0 0.0 0.0

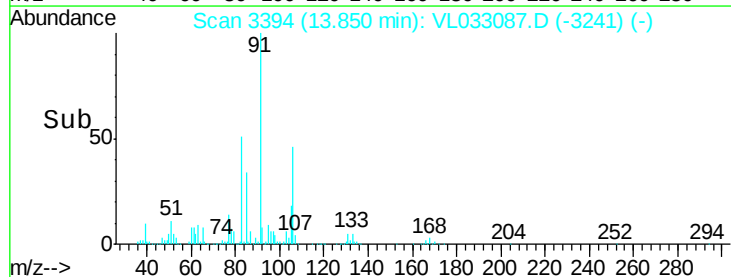
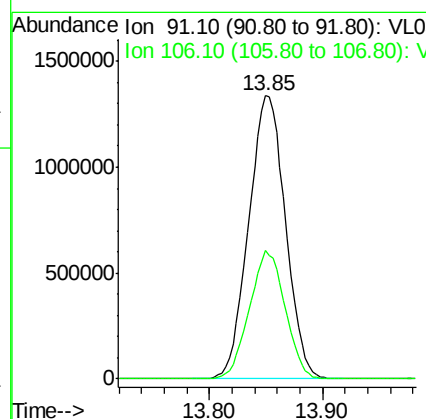
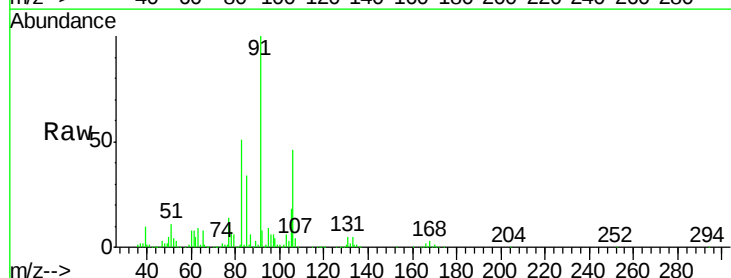
Manual Integrations
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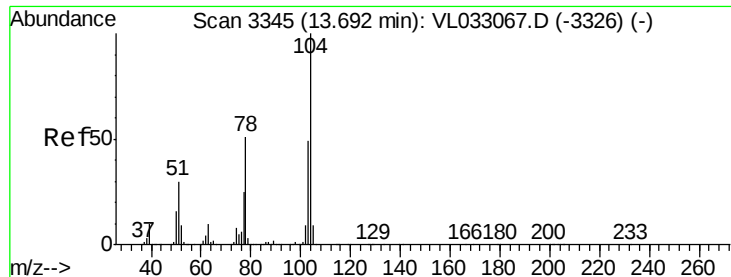
MMDadoda
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#60
o-Xylene
Concen: 9.278 ppbv
RT: 13.85 min Scan# 3394
Delta R.T. -0.01 min
Lab File: VL033087.D
Acq: 16 Jan 2019 9:35

Tgt Ion: 91 Resp: 3008198
Ion Ratio Lower Upper
91 100
106 44.2 22.1 66.5





#61

Stvrene

Concen: 10.723 ppbv

RT: 13.69 min Scan# 3344

Delta R.T. -0.00 min

Lab File: VL033087.D

Acq: 16 Jan 2019 9:35

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:104 Resp: 2218327

Ion Ratio Lower Upper

104 100

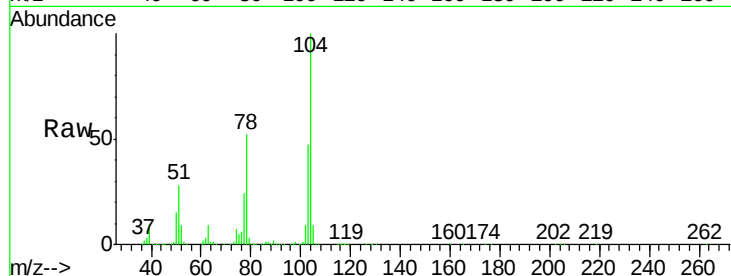
78 52.2 41.6 62.4

103 47.7 38.1 57.1

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MMDadoda

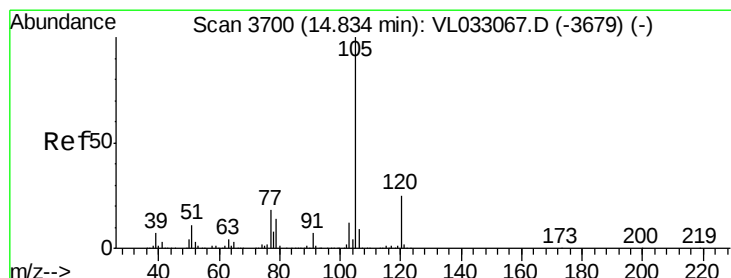
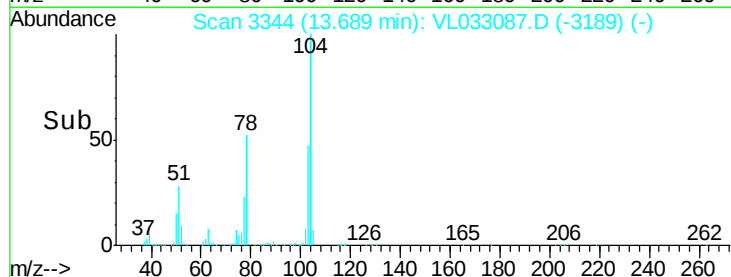
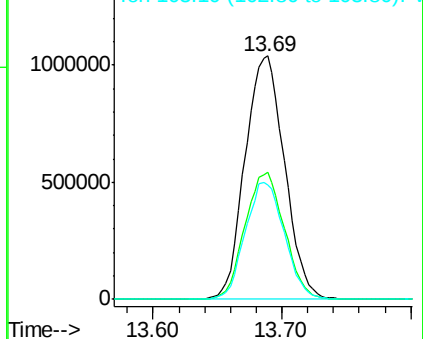
1/17/2019 3:15:44 PM



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: 9.246 ppbv

RT: 14.83 min Scan# 3698

Delta R.T. -0.01 min

Lab File: VL033087.D

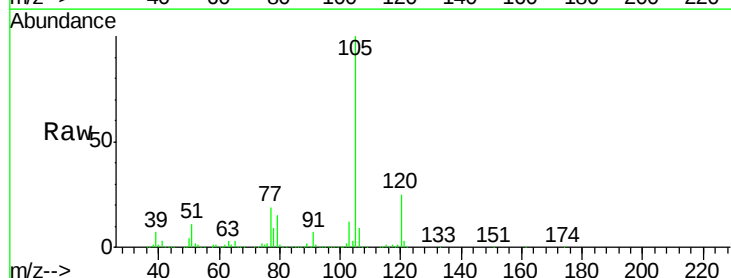
Acq: 16 Jan 2019 9:35

Tgt Ion:105 Resp: 4266303

Ion Ratio Lower Upper

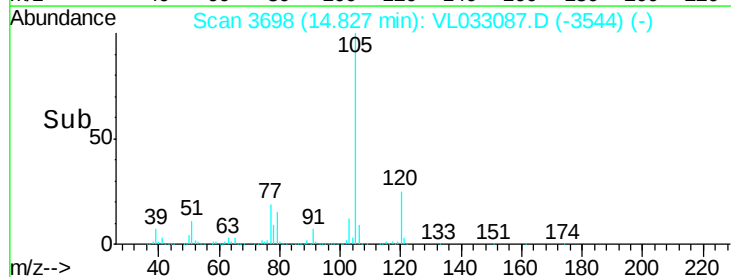
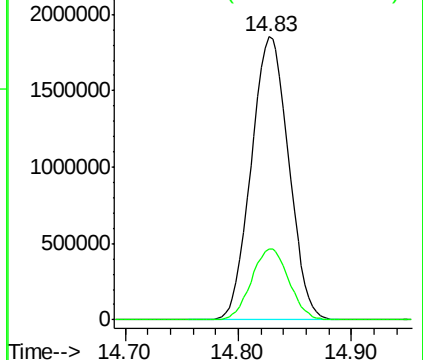
105 100

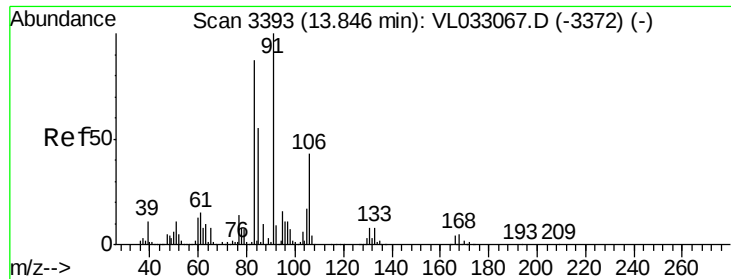
120 25.1 20.4 30.6



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: 8.507 ppbv

RT: 13.84 min Scan# 3390

Delta R.T. -0.01 min

Lab File: VL033087.D

Acq: 16 Jan 2019 9:35

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 83 Resp: 2048847

Ion Ratio Lower Upper

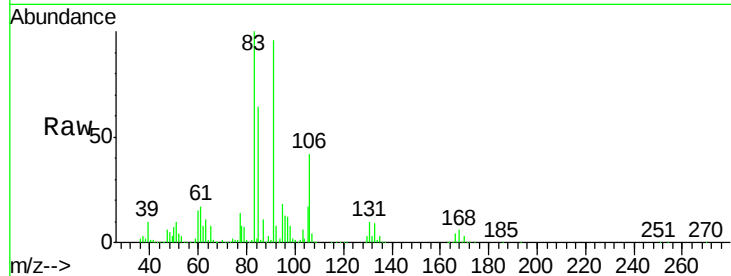
83 100

131 9.8 4.8 14.4

85 65.1 32.6 97.8

Manual Integrations
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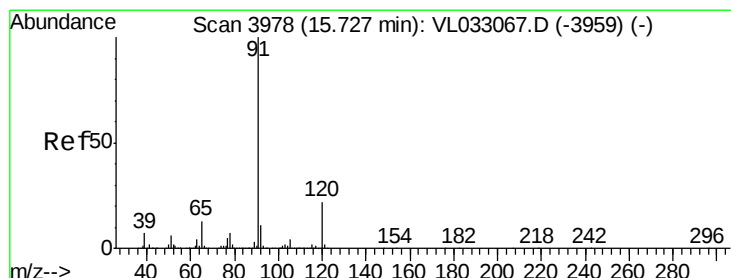
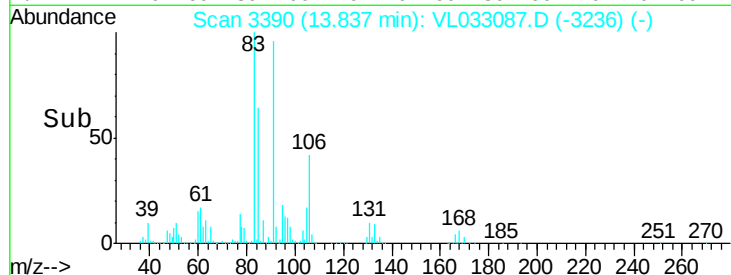
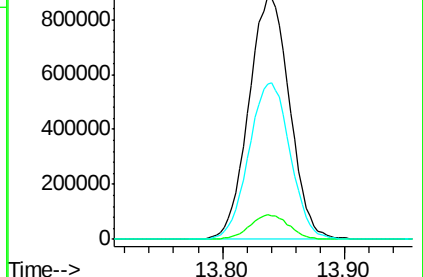
MMDadoda
1/17/2019 3:15:44 PM



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 9.288 ppbv

RT: 15.72 min Scan# 3977

Delta R.T. -0.00 min

Lab File: VL033087.D

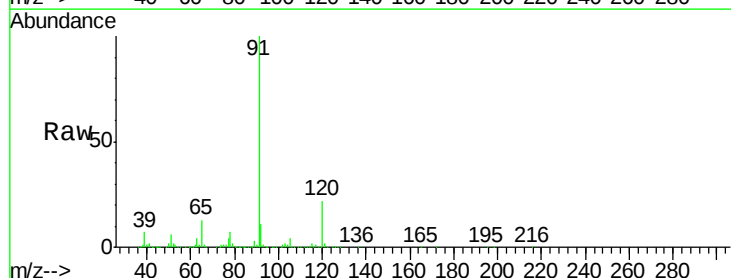
Acq: 16 Jan 2019 9:35

Tgt Ion: 120 Resp: 1088735

Ion Ratio Lower Upper

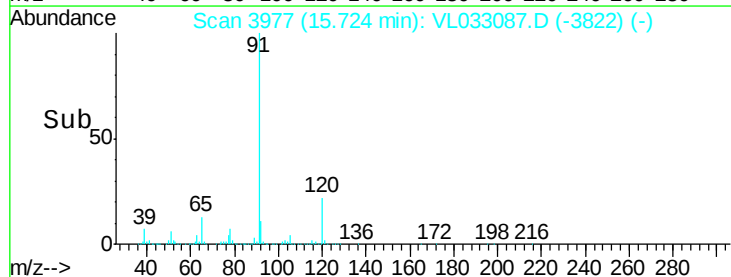
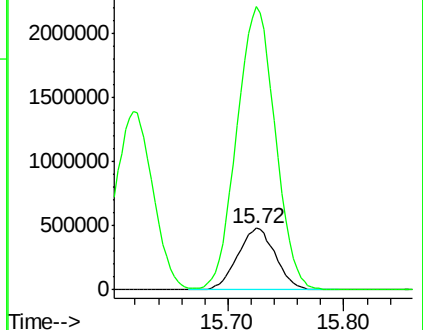
120 100

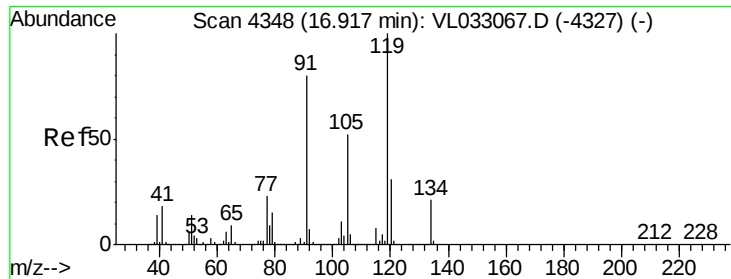
91 469.3 378.7 568.1



Abundance Ion 120.20 (119.90 to 120.90): VL0

Ion 91.10 (90.80 to 91.80): VL0





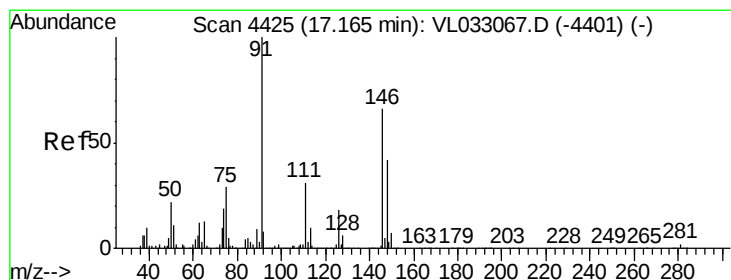
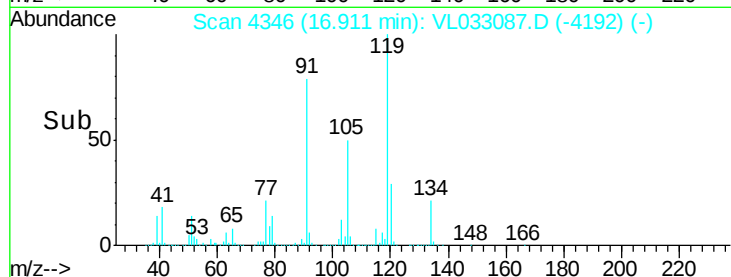
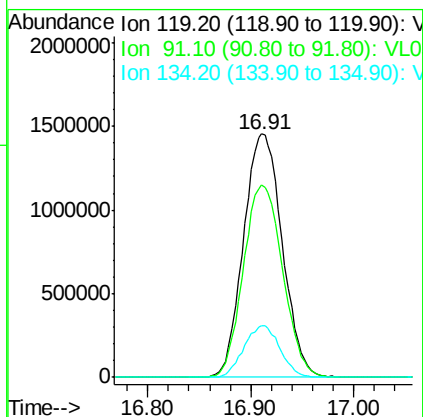
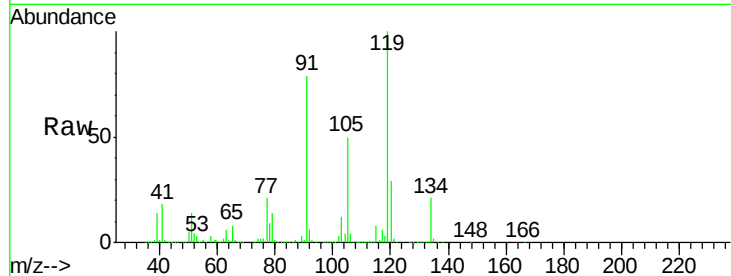
#65
tert-Butylbenzene
Concen: 9.261 ppbv
RT: 16.91 min Scan# 4346
Delta R.T. -0.01 min
Lab File: VL033087.D
Acq: 16 Jan 2019 9:35

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 119 Resp: 3785020
Ion Ratio Lower Upper
119 100
91 80.5 64.6 97.0
134 19.7 15.8 23.8

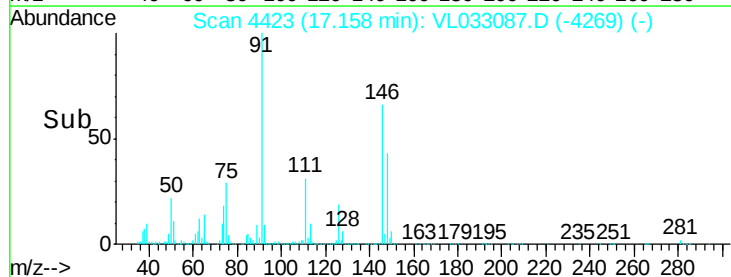
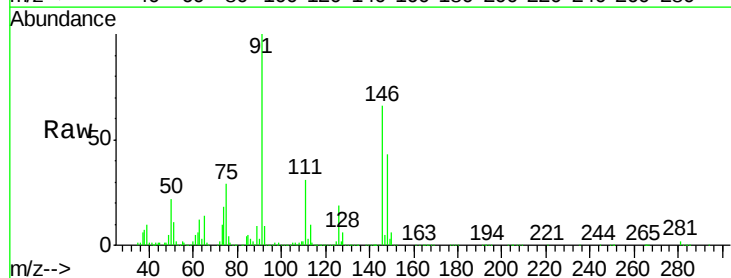
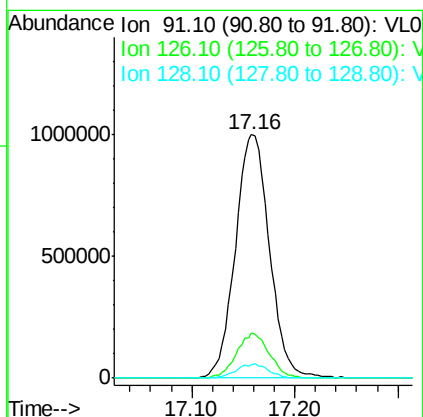
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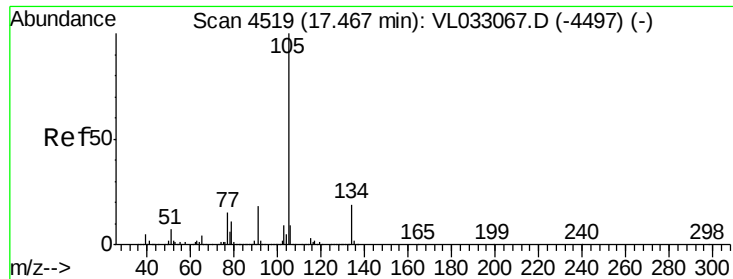
MMDadoda
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#66
Benzyl Chloride
Concen: 9.858 ppbv
RT: 17.16 min Scan# 4423
Delta R.T. -0.01 min
Lab File: VL033087.D
Acq: 16 Jan 2019 9:35

Tgt Ion: 91 Resp: 2296270
Ion Ratio Lower Upper
91 100
126 17.9 14.4 21.6
128 5.6 4.5 6.7





#67

sec-Butylbenzene

Concen: 9.051 ppbv

RT: 17.46 min Scan# 4517

Delta R.T. -0.01 min

Lab File: VL033087.D

Acq: 16 Jan 2019 9:35

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:105 Resp: 5293764

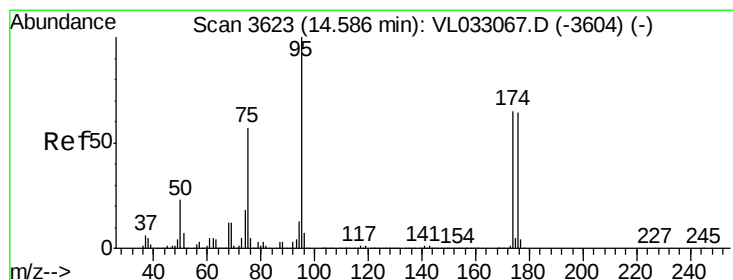
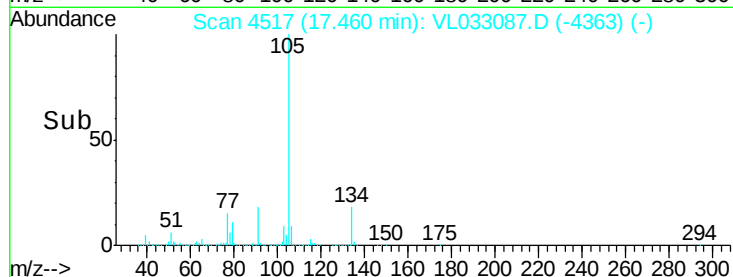
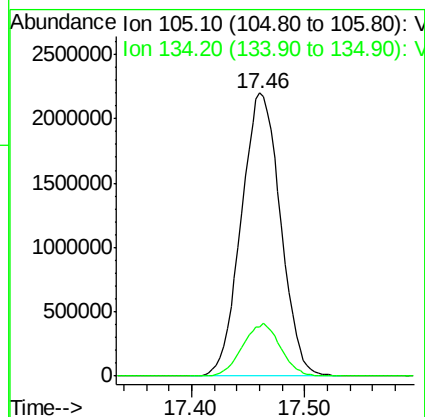
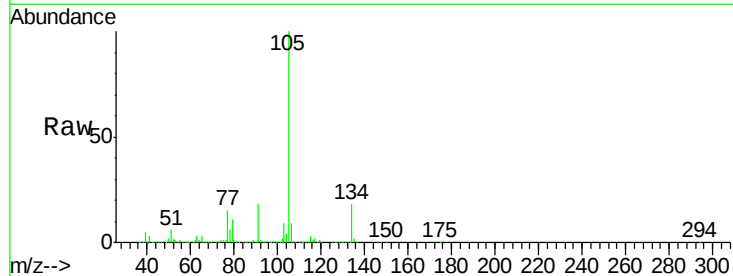
Ion Ratio Lower Upper

105 100

134 18.1 14.6 21.8

Manual Integrations
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#68

1-Bromo-4-Fluorobenzene

Concen: 9.576 ppbv

RT: 14.58 min Scan# 3621

Delta R.T. -0.01 min

Lab File: VL033087.D

Acq: 16 Jan 2019 9:35

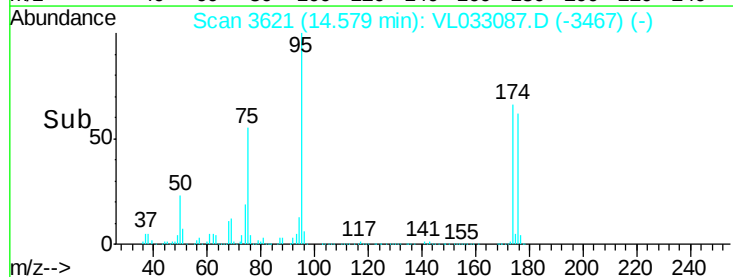
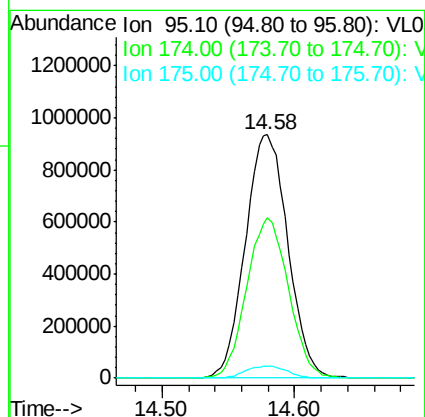
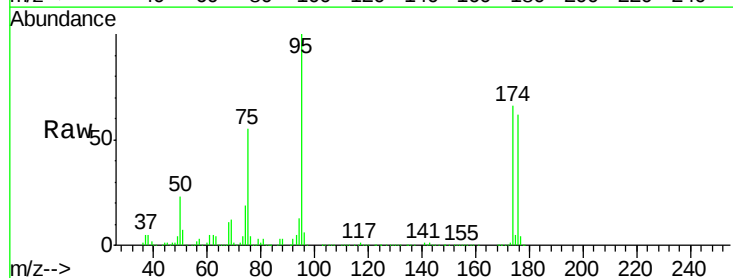
Tgt Ion: 95 Resp: 2081340

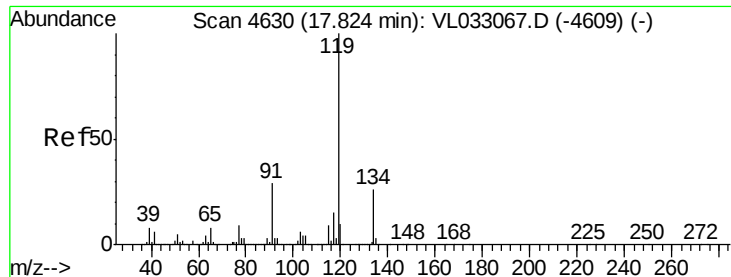
Ion Ratio Lower Upper

95 100

174 65.1 51.9 77.9

175 4.9 3.9 5.9





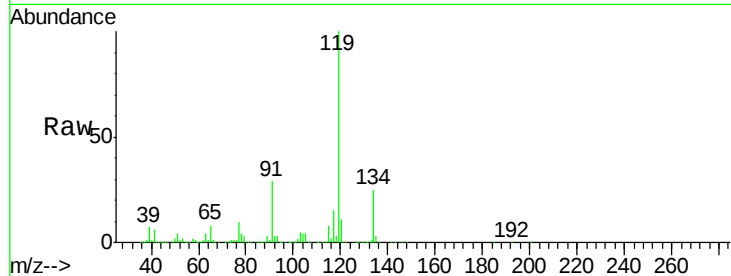
#69
p-Isopropyltoluene
Concen: 9.212 ppbv
RT: 17.82 min Scan# 4628
Delta R.T. -0.01 min
Lab File: VL033087.D
Acq: 16 Jan 2019 9:35

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.1	20.1	30.1
91	28.7	23.0	34.4

Manual Integrations
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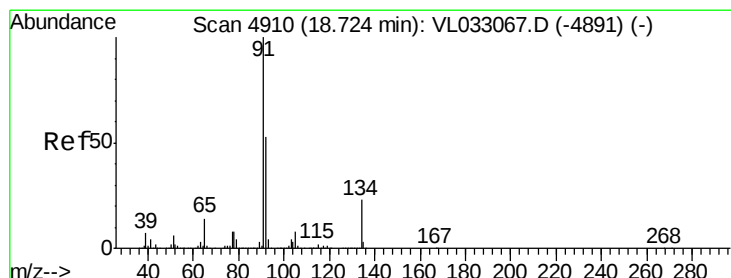
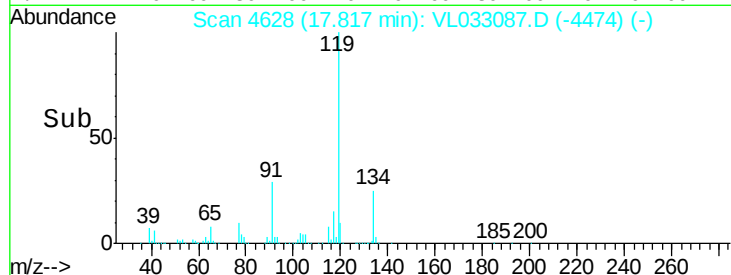
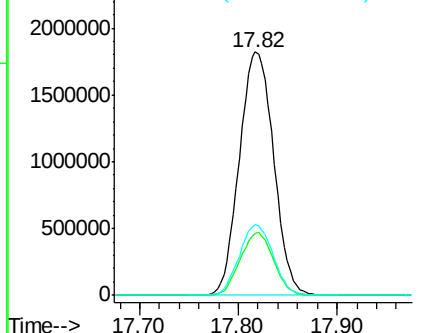


Abundance

Ion 119.10 (118.80 to 119.80): V

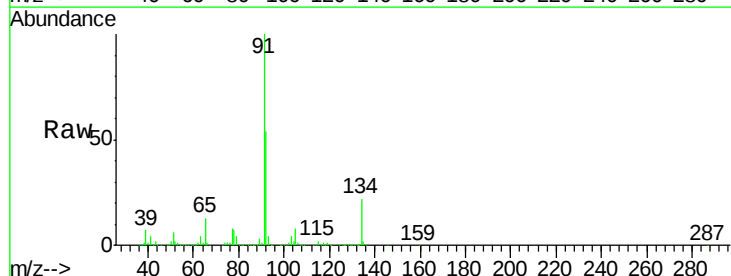
Ion 134.20 (133.90 to 134.90): V

Ion 91.10 (90.80 to 91.80): V



#70
n-Butylbenzene
Concen: 9.033 ppbv
RT: 18.72 min Scan# 4908
Delta R.T. -0.00 min
Lab File: VL033087.D
Acq: 16 Jan 2019 9:35

Tgt Ion	Ratio	Lower	Upper
91	100		
92	53.4	42.4	63.6
134	22.6	18.0	27.0

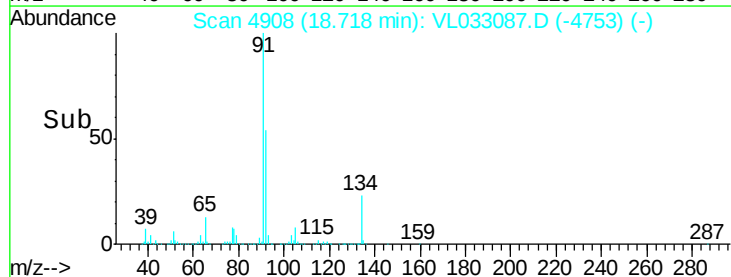
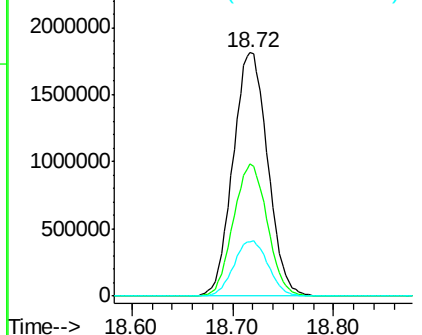


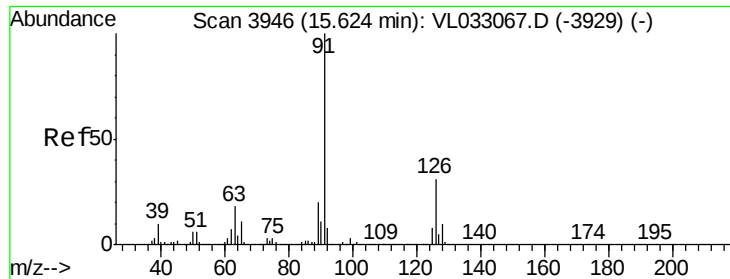
Abundance

Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

Ion 134.20 (133.90 to 134.90): V





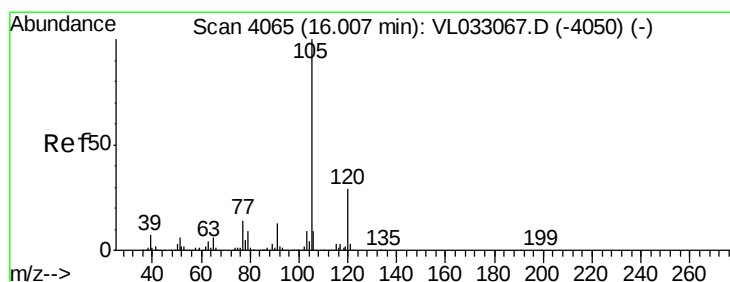
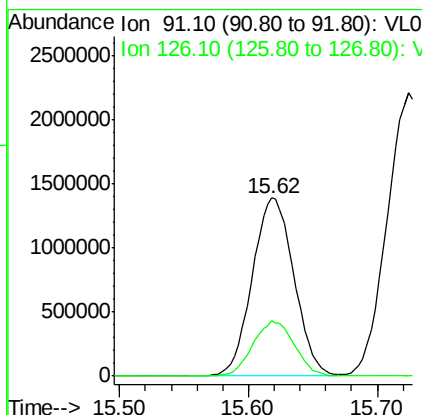
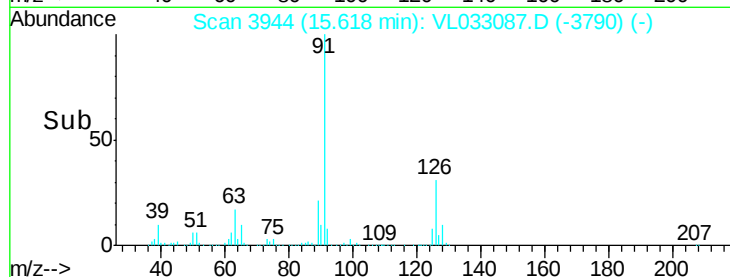
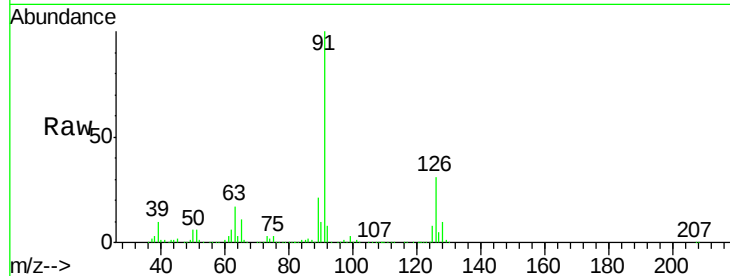
#71
2-Chlorotoluene
Concen: 9.581 ppbv
RT: 15.62 min Scan# 3944
Delta R.T. -0.01 min
Lab File: VL033087.D
Acq: 16 Jan 2019 9:35

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 91 Resp: 3135202
Ion Ratio Lower Upper
91 100
126 30.9 12.4 49.6

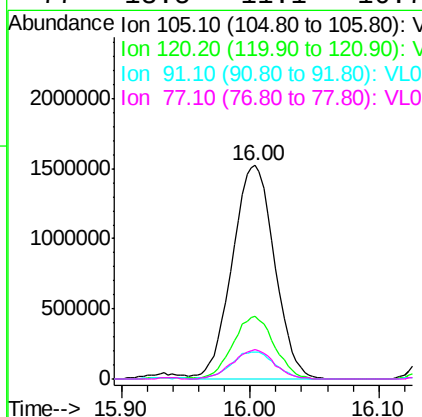
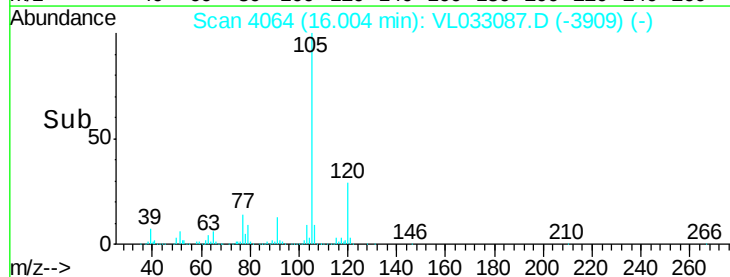
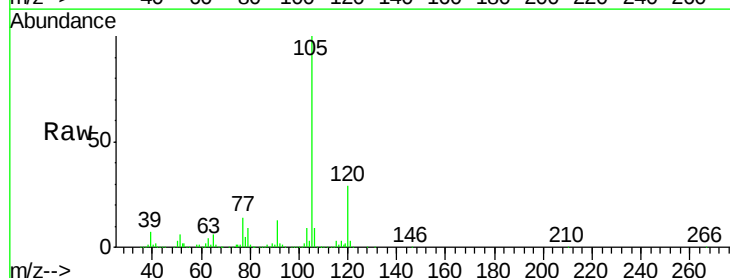
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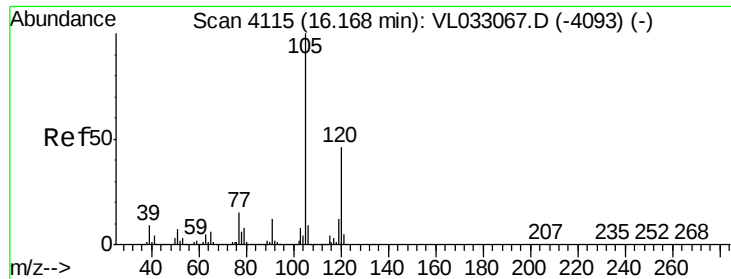
MMDadoda
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#72
4-Ethyltoluene
Concen: 9.726 ppbv
RT: 16.00 min Scan# 4064
Delta R.T. -0.00 min
Lab File: VL033087.D
Acq: 16 Jan 2019 9:35

Tgt Ion: 105 Resp: 3465376
Ion Ratio Lower Upper
105 100
120 29.0 23.0 34.6
91 13.0 10.3 15.5
77 13.5 11.1 16.7





#73

1,3,5-Trimethylbenzene

Concen: 9.329 ppbv

RT: 16.16 min Scan# 4113

Delta R.T. -0.00 min

Lab File: VL033087.D

Acq: 16 Jan 2019 9:35

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:105 Resp: 3279697

Ion Ratio Lower Upper

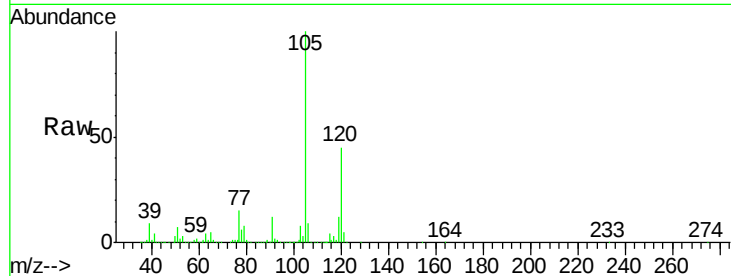
105 100

120 45.2 36.1 54.1

Manual Integrations
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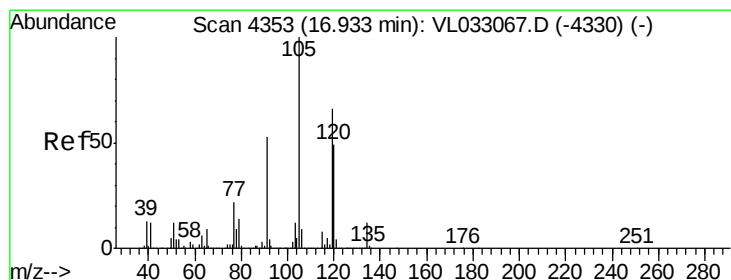
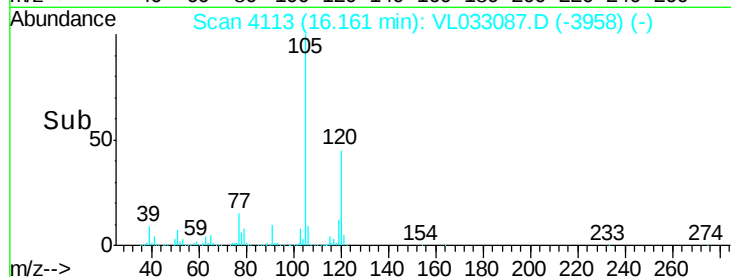
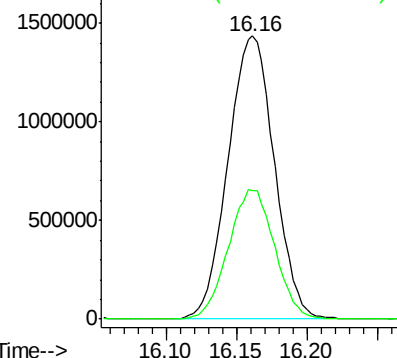
MMDadoda

1/17/2019 3:15:44 PM



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: 8.750 ppbv

RT: 16.93 min Scan# 4352

Delta R.T. -0.01 min

Lab File: VL033087.D

Acq: 16 Jan 2019 9:35

Tgt Ion:105 Resp: 3406938

Ion Ratio Lower Upper

105 100

120 47.4 37.0 55.4

91 45.2 35.4 53.0

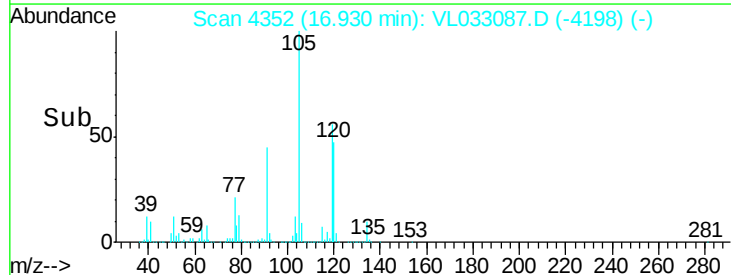
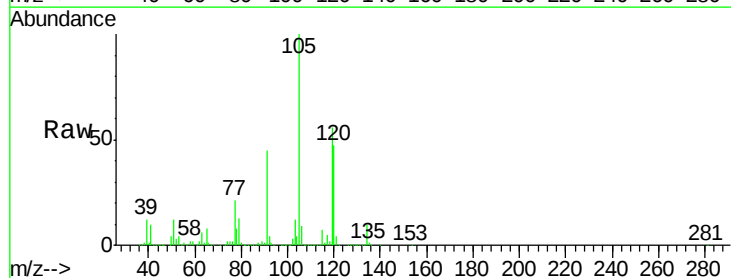
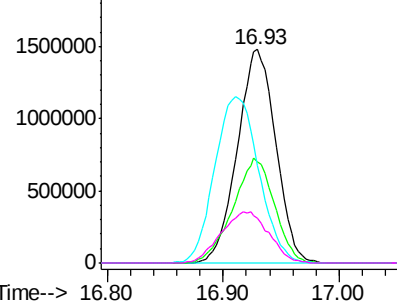
77 20.7 17.1 25.7

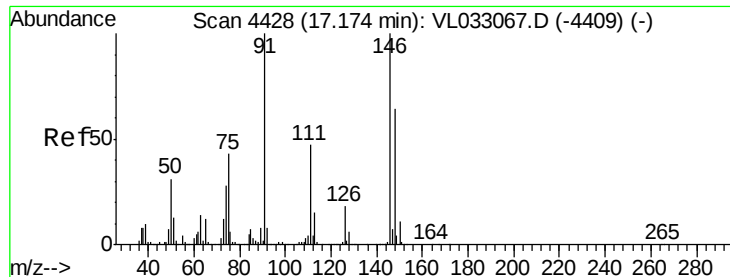
Abundance Ion 105.10 (104.80 to 105.80): V

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: 8.333 ppbv

RT: 17.17 min Scan# 4426

Delta R.T. -0.01 min

Lab File: VL033087.D

Acq: 16 Jan 2019 9:35

Instrument :

MSVOA_L

ClientSampled :

VSTDCCC010

Tot Ion:146 Resp: 1909717

Ion Ratio Lower Upper

146 100

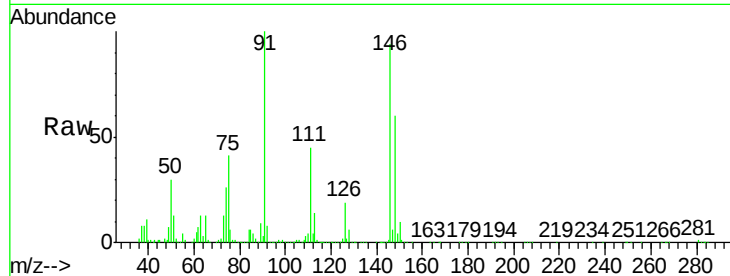
111 47.1 23.4 70.2

148 64.2 32.1 96.3

Manual Integrations
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MMDadoda

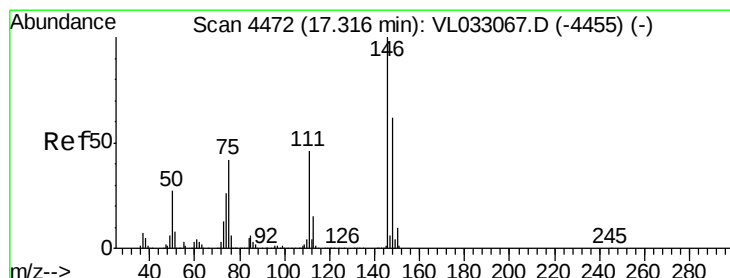
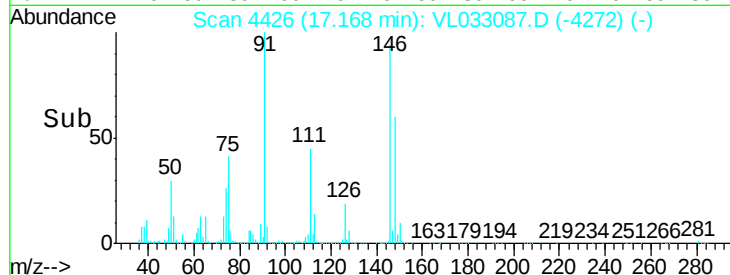
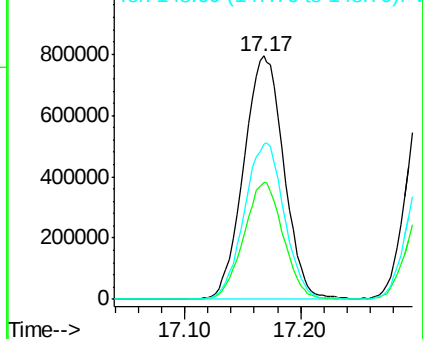
1/17/2019 3:15:44 PM



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 8.972 ppbv

RT: 17.31 min Scan# 4470

Delta R.T. -0.01 min

Lab File: VL033087.D

Acq: 16 Jan 2019 9:35

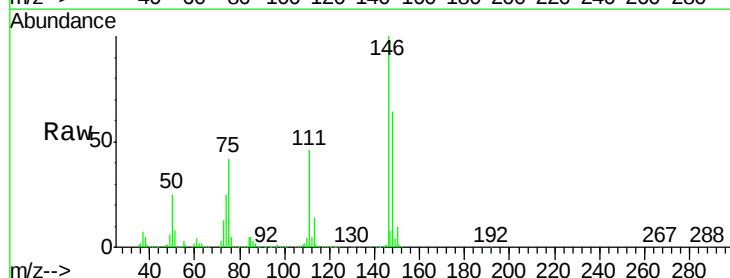
Tgt Ion:146 Resp: 1872967

Ion Ratio Lower Upper

146 100

111 45.1 22.7 68.1

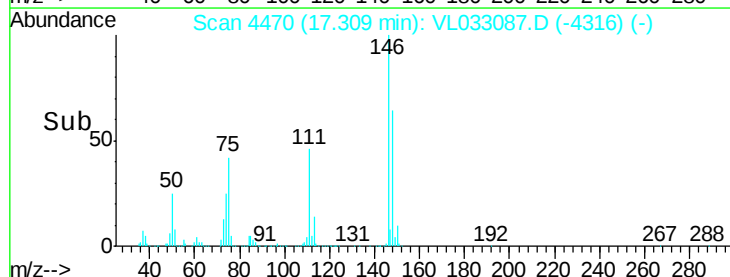
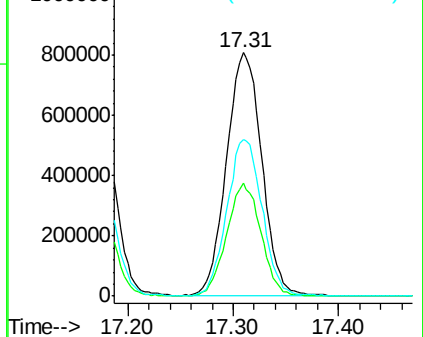
148 64.4 32.4 97.2

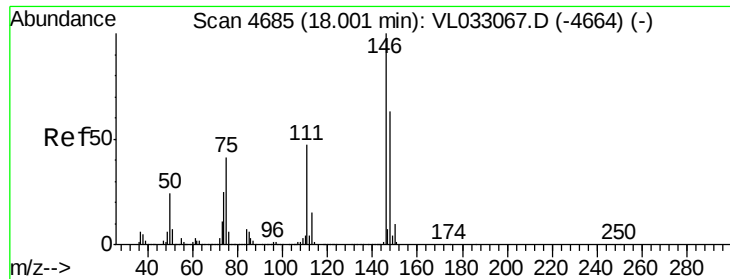


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





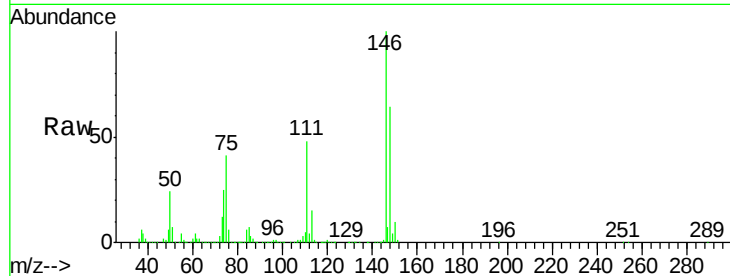
#77
 1,2-Dichlorobenzene
 Concen: 8.775 ppbv
 RT: 17.99 min Scan# 4682
 Delta R.T. -0.01 min
 Lab File: VL033087.D
 Acq: 16 Jan 2019 9:35

Instrument :
 MSVOA_L
 ClientSampled :
 VSTDCCC010

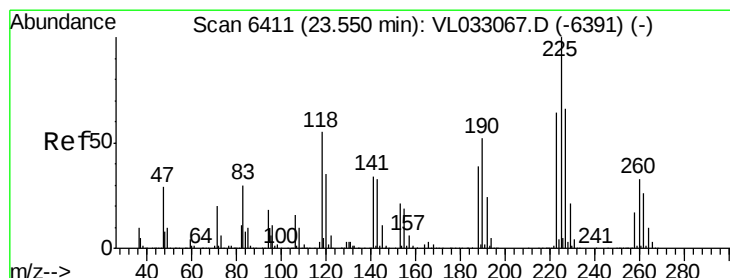
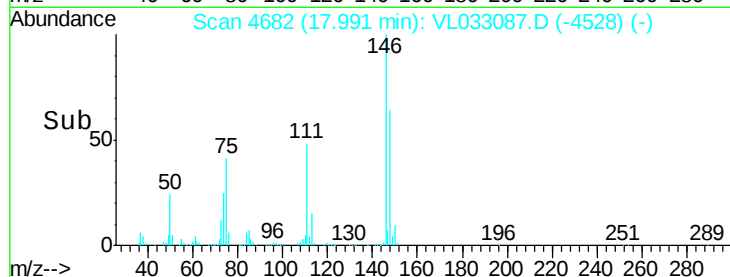
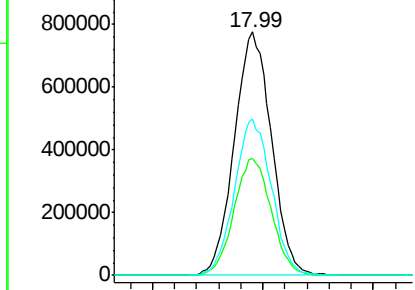
Tot Ion:146 Resp: 1811179
 Ion Ratio Lower Upper
 146 100
 111 48.2 24.4 73.2
 148 64.1 32.3 96.9

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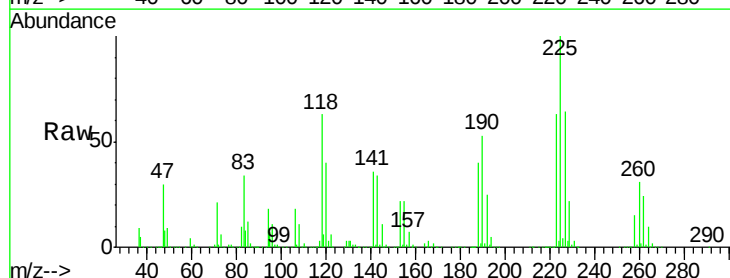


Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.10 (110.80 to 111.80): V
 Ion 148.00 (147.70 to 148.70): V

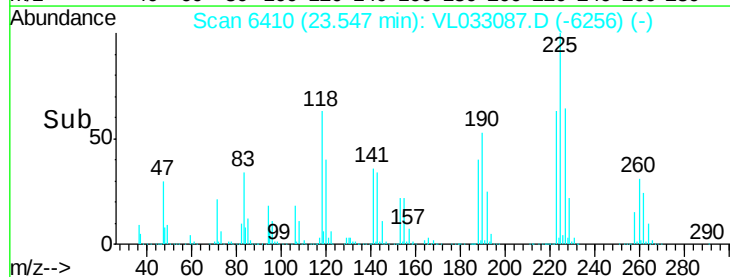
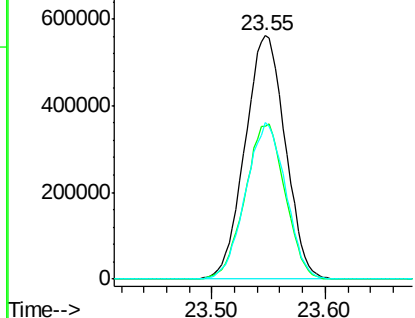


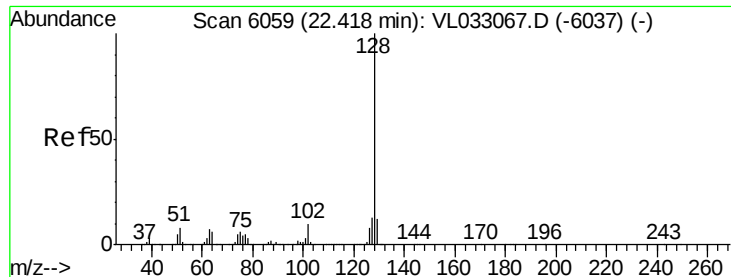
#78
 Hexachloro-1,3-Butadiene
 Concen: 8.769 ppbv
 RT: 23.55 min Scan# 6410
 Delta R.T. -0.01 min
 Lab File: VL033087.D
 Acq: 16 Jan 2019 9:35

Tgt Ion:225 Resp: 1390087
 Ion Ratio Lower Upper
 225 100
 223 63.4 51.0 76.6
 227 63.7 51.0 76.4



Abundance Ion 224.90 (224.60 to 225.60): V
 Ion 222.90 (222.60 to 223.60): V
 Ion 226.90 (226.60 to 227.60): V





#79

Naphthalene

Concen: 9.684 ppbv

RT: 22.42 min Scan# 6058

Delta R.T. -0.01 min

Lab File: VL033087.D

Acq: 16 Jan 2019 9:35

Instrument :

MSVOA_L

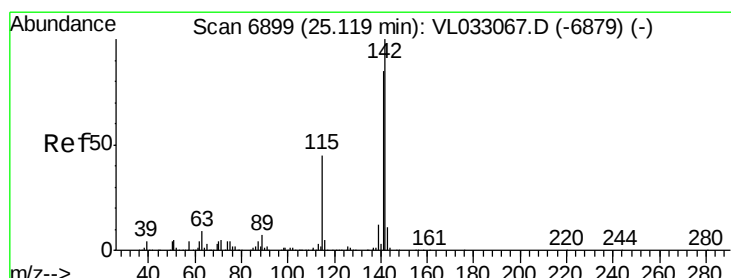
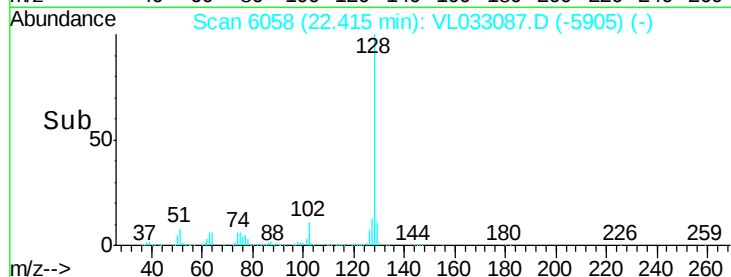
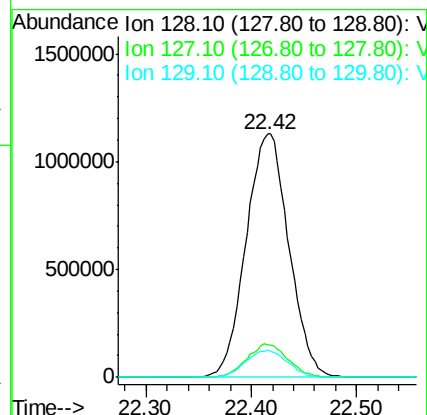
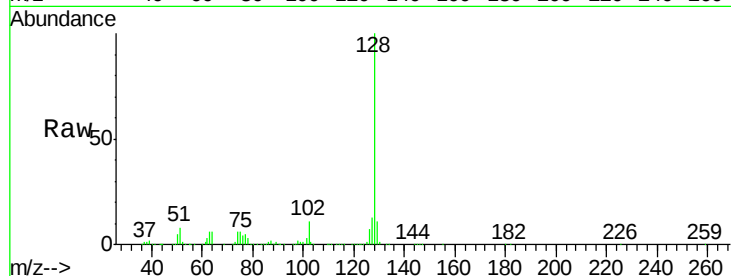
ClientSampleId :

VSTDCCC010

Tot Ion:	128	Resp:	3175813
Ion	Ratio	Lower	Upper
128	100		
127	13.1	11.0	16.6
129	11.3	9.4	14.0

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#80

Naphthalene, 2-methyl-

Concen: 12.636 ppbv

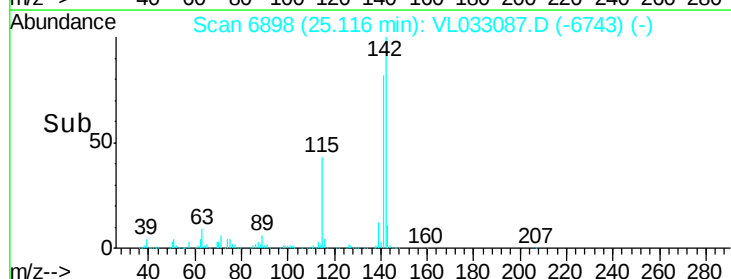
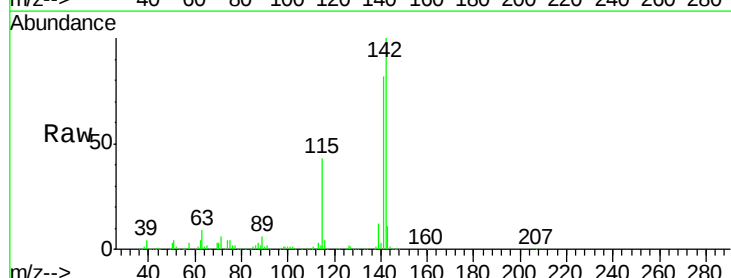
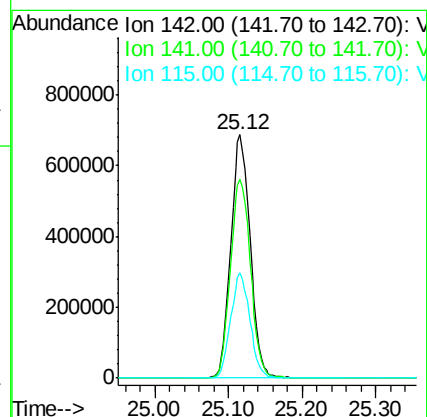
RT: 25.12 min Scan# 6898

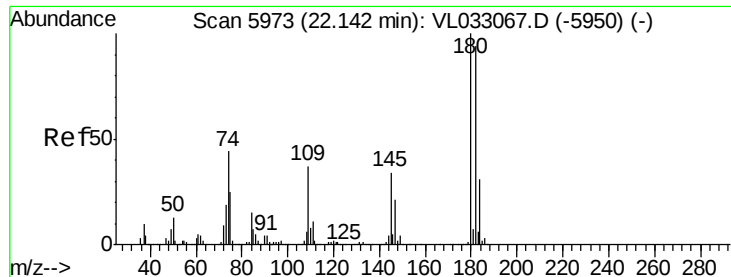
Delta R.T. -0.00 min

Lab File: VL033087.D

Acq: 16 Jan 2019 9:35

Tgt Ion:	142	Resp:	1257599
Ion	Ratio	Lower	Upper
142	100		
141	84.7	68.6	103.0
115	43.2	35.6	53.4





#81
 1,2,4-Trichlorobenzene
 Concen: 9.504 ppbv
 RT: 22.14 min Scan# 5972
 Delta R.T. -0.01 min
 Lab File: VL033087.D
 Acq: 16 Jan 2019 9:35

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.0	76.1	114.1
184	30.8	24.6	37.0

Manual Integrations
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