

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL010419\
 Data File : VL033067.D
 Acq On : 4 Jan 2019 13:12
 Operator : SY/AP
 Sample : VSTDICCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

MMDadoda
 1/8/2019 12:02:06 AM

Quant Time: Jan 04 14:13:47 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL010419AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Jan 0
 QLast Update : Thu Jan 03 19:04:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	1184706	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	2885946	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	2907554m	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.59	95	2158978	9.96	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	2276700	8.618	ppbv	100
3) Chlorodifluoromethane	3.02	51	1242270	8.615	ppbv	99
4) Chloromethane	3.17	50	654573	7.810	ppbv	99
5) Vinyl Chloride	3.30	62	686731	7.715	ppbv	99
6) Bromomethane	3.52	94	463565	8.556	ppbv	98
7) Chloroethane	3.60	64	257935	8.434	ppbv	98
8) Dichlorotetrafluoroethane	3.22	85	1755602	8.342	ppbv	100
9) Propene	3.04	41	468617	8.375	ppbv	100
10) Heptane	8.26	43	1339438	9.358	ppbv	100
11) Trichlorofluoromethane	4.01	101	1983455	8.535	ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.55	101	1360184	8.660	ppbv	99
13) Ethanol	3.65	45	123762	5.677	ppbv	93
14) Bromoethene	3.79	108	591531	8.843	ppbv	99
15) Acetone	3.90	43	1252693	8.085	ppbv	99
16) 1,3-Butadiene	3.37	39	551263	8.166	ppbv	96
17) tert-Butyl alcohol	4.36	59	303954	8.782	ppbv	99
18) 1,1-Dichloroethene	4.36	96	614534	8.731	ppbv	98
19) Isopropyl Alcohol	4.03	45	808220	7.808	ppbv	99
20) Methylene Chloride	4.41	84	526295	7.676	ppbv	99
21) Allyl Chloride	4.48	41	948444	9.001	ppbv	98
22) trans-1,2-Dichloroethene	4.97	96	609624	8.869	ppbv	98
23) Vinyl Acetate	5.16	43	1887693	8.816	ppbv	99
24) 1,1-Dichloroethane	5.09	63	1473316	8.289	ppbv	99
25) Ethyl Acetate	5.77	43	2387922	8.607	ppbv	99
26) Hexane	5.79	57	1106915	8.418	ppbv	99
27) Carbon Disulfide	4.62	76	1532052	9.317	ppbv	98
28) Methyl tert-Butyl Ether	5.12	73	1791563	8.697	ppbv	100
29) Chloroform	5.86	83	1919041	8.801	ppbv	99
30) Cyclohexane	7.26	84	935562	9.472	ppbv	99
31) cis-1,2-Dichloroethene	5.64	61	1097369	9.009	ppbv	98
32) 1,1,1-Trichloroethane	6.62	97	1967295	8.551	ppbv	99
34) 2-Butanone	5.33	43	1479259	8.779	ppbv	100
35) Carbon Tetrachloride	7.14	117	2172828	8.721	ppbv	98
36) Benzene	7.01	78	2183013	9.194	ppbv	99
37) 1,2-Dichloroethane	6.42	62	1483181	9.181	ppbv	99
38) Trichloroethene	7.97	130	925817	9.335	ppbv	98
39) 1,2-Dichloropropane	7.74	63	811639	9.112	ppbv	97
40) 1,4-Dioxane	7.96	88	290928	8.605	ppbv	89
41) Tetrahydrofuran	6.15	42	817922	9.520	ppbv	99
42) Bromodichloromethane	7.92	83	2035716	8.759	ppbv	99
43) Methyl Methacrylate	8.15	69	888145	10.032	ppbv	98

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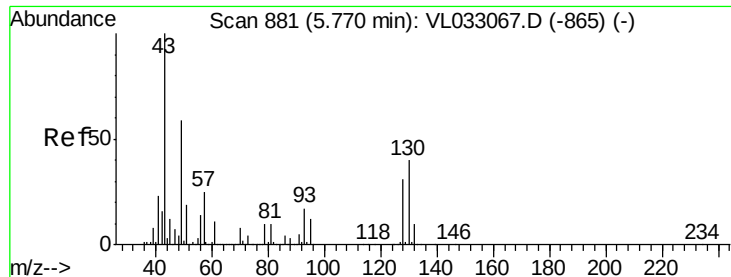
Manual Integrations
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 1/8/2019 12:02:06 AM

Quant Time: Jan 04 14:13:47 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL010419AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LThu Jan 08
 QLast Update : Thu Jan 03 19:04:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.00	57	3693773	8.786	ppbv	99
45) t-1,3-Dichloropropene	9.42	75	1247211	10.194	ppbv	97
46) cis-1,3-Dichloropropene	8.84	75	1404819	10.562	ppbv	97
47) 1,1,2-Trichloroethane	9.62	97	943412	8.773	ppbv	98
48) Dibromochloromethane	10.46	129	1793958	10.060	ppbv	100
49) Bromoform	13.21	173	1546815	9.410	ppbv	100
50) 4-Methyl-2-Pentanone	8.88	43	2113779	9.331	ppbv	100
51) 2-Hexanone	10.28	43	1630156	10.651	ppbv	99
52) Tetrachloroethene	11.38	164	816629	9.501	ppbv	98
53) Toluene	9.95	91	2623165	10.732	ppbv	99
54) 1,2-Dibromoethane	10.77	107	1483752	9.498	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.29	131	1279453	8.695	ppbv	97
57) Chlorobenzene	12.31	112	2064218	8.756	ppbv	98
58) Ethyl Benzene	12.87	91	3613568	10.103	ppbv	99
59) m/p-Xylene	13.16	91	6215657m	18.712	ppbv	
60) o-Xylene	13.86	91	3064652	9.438	ppbv	99
61) Styrene	13.69	104	2236033	10.678	ppbv	99
62) Isopropylbenzene	14.83	105	4231908	9.125	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.85	83	2078848	8.179	ppbv	99
64) n-propylbenzene	15.73	120	1083212	9.471	ppbv	99
65) tert-Butylbenzene	16.92	119	3766242	9.123	ppbv	99
66) Benzyl Chloride	17.16	91	2305181	9.935	ppbv	100
67) sec-Butylbenzene	17.47	105	5374497	9.233	ppbv	100
69) p-Isopropyltoluene	17.82	119	4423181	9.393	ppbv	100
70) n-Butylbenzene	18.72	91	4400440	9.157	ppbv	100
71) 2-Chlorotoluene	15.62	91	3170830	9.651	ppbv	99
72) 4-Ethyltoluene	16.01	105	3478768	9.615	ppbv	99
73) 1,3,5-Trimethylbenzene	16.17	105	3310337	9.373	ppbv	99
74) 1,2,4-Trimethylbenzene	16.93	105	3429955	8.842	ppbv	92
75) 1,3-Dichlorobenzene	17.17	146	1917804	8.443	ppbv	99
76) 1,4-Dichlorobenzene	17.32	146	1872540	9.062	ppbv	100
77) 1,2-Dichlorobenzene	18.00	146	1822738	8.766	ppbv	100
78) Hexachloro-1,3-Butadiene	23.55	225	1051904	7.198	ppbv	99
79) Naphthalene	22.42	128	3246051	9.211	ppbv	99
80) Naphthalene, 2-methyl-	25.12	142	1216479	12.448	ppbv	99
81) 1,2,4-Trichlorobenzene	22.14	180	1518195	9.459	ppbv	99

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



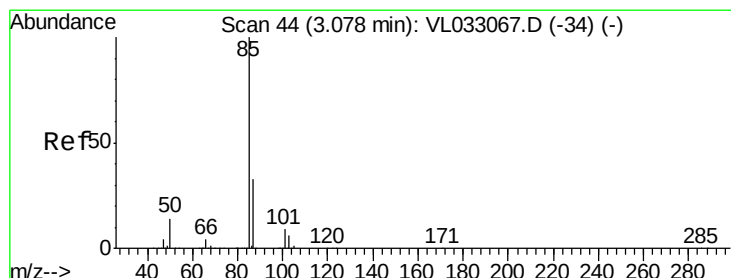
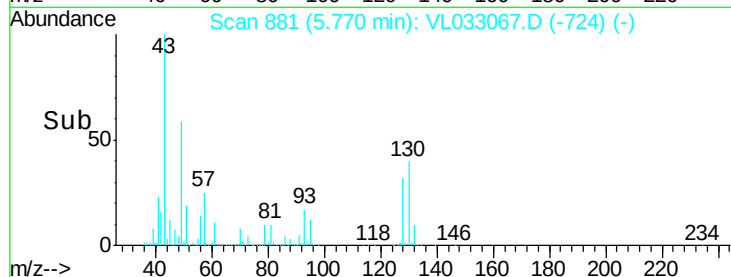
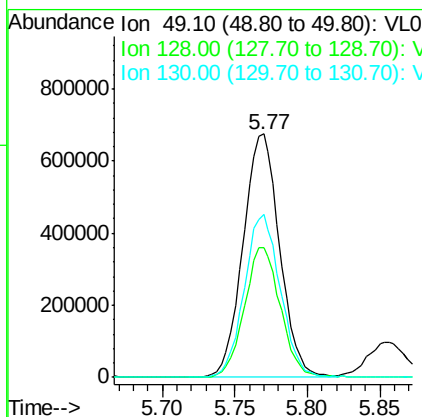
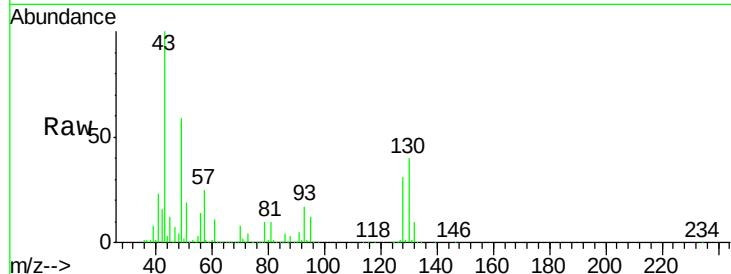
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Bromochloromethane
Concen: 10.000 ppbv
RT: 5.77 min Scan# 881
Delta R.T. 0.00 min
Lab File: VL033067.D
Acq: 4 Jan 2019 13:12

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion: 49 Resp: 1184706
Ion Ratio Lower Upper
49 100
128 52.9 26.2 78.5
130 66.3 33.6 100.6

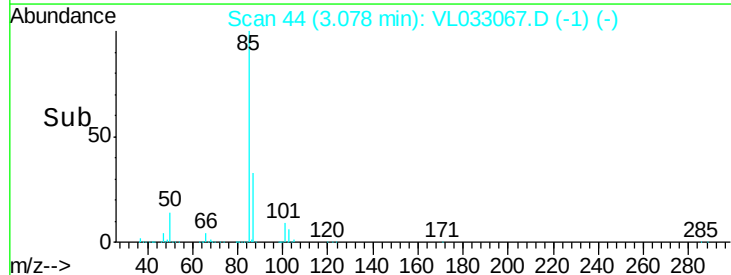
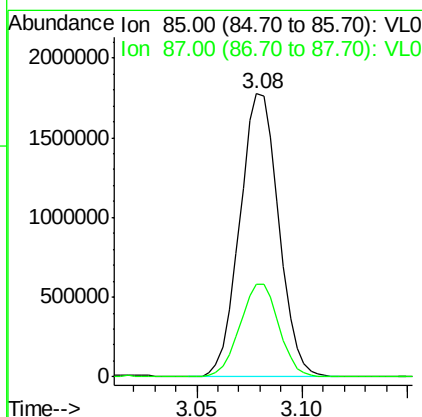
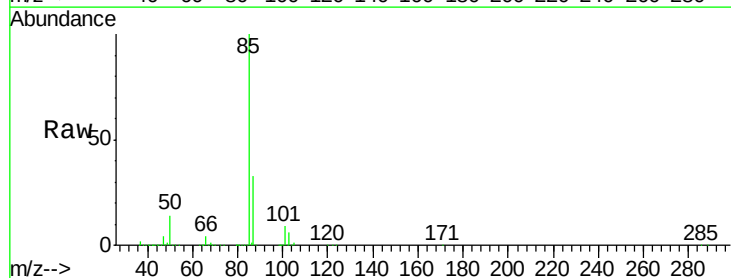
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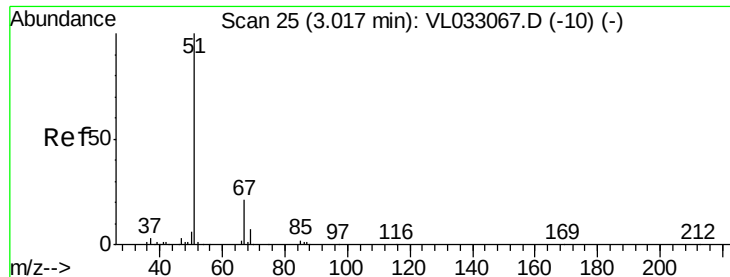
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#2
Dichlorodifluoromethane
Concen: 8.618 ppbv
RT: 3.08 min Scan# 44
Delta R.T. 0.00 min
Lab File: VL033067.D
Acq: 4 Jan 2019 13:12

Tgt Ion: 85 Resp: 2276700
Ion Ratio Lower Upper
85 100
87 32.8 26.3 39.5





#3

Chlorodifluoromethane

Concen: 8.615 ppbv

RT: 3.02 min Scan# 25

Delta R.T. 0.00 min

Lab File: VL033067.D

Acq: 4 Jan 2019 13:12

Tot Ion: 51 Resp: 1242270

Ion Ratio Lower Upper

51 100

67 20.8 16.3 24.5

Instrument :

MSVOA_L

ClientSampleId :

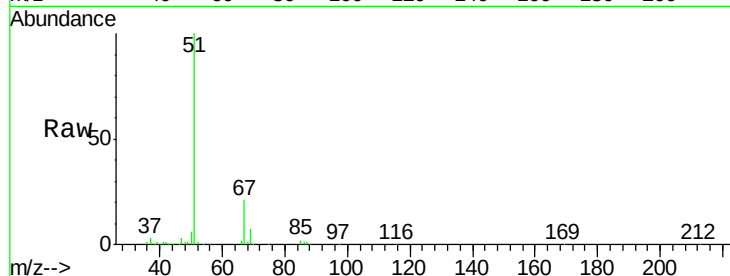
VSTDICCC010

Manual Integrations

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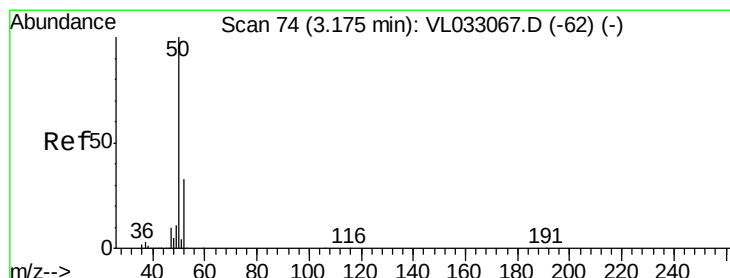
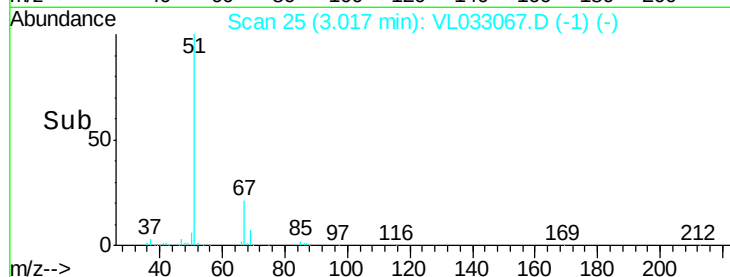
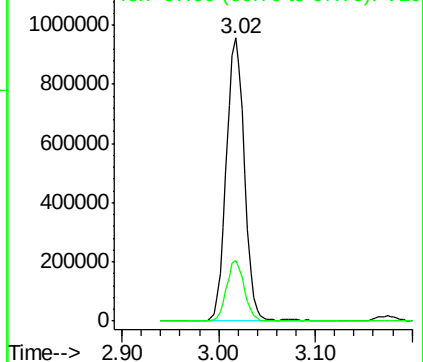
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 7.810 ppbv

RT: 3.17 min Scan# 74

Delta R.T. 0.00 min

Lab File: VL033067.D

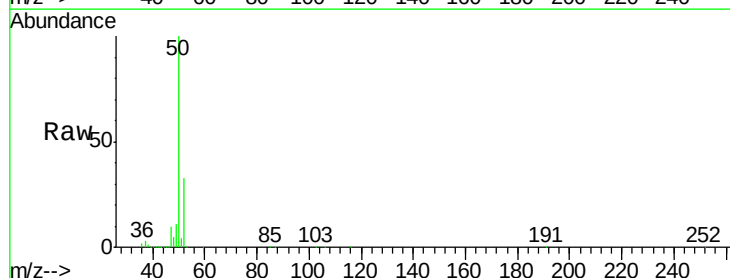
Acq: 4 Jan 2019 13:12

Tgt Ion: 50 Resp: 654573

Ion Ratio Lower Upper

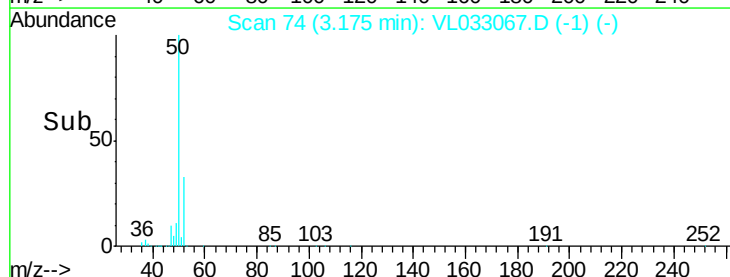
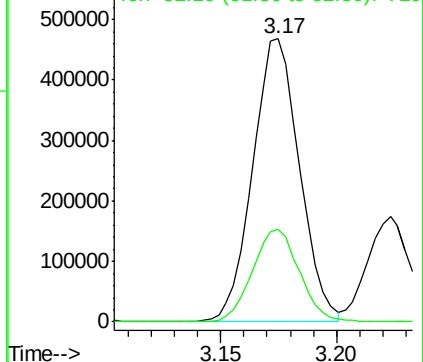
50 100

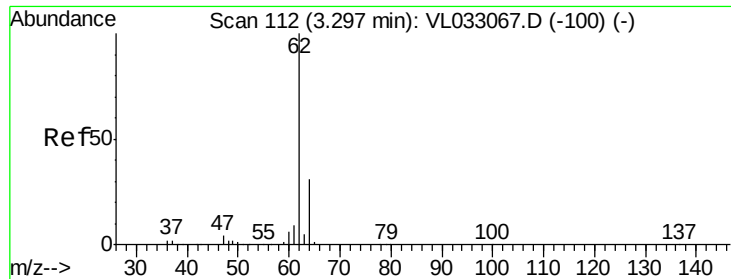
52 32.8 26.9 40.3



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 7.715 ppbv

RT: 3.30 min Scan# 112

Delta R.T. 0.00 min

Lab File: VL033067.D

Acq: 4 Jan 2019 13:12

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 62 Resp: 686731

Ion Ratio Lower Upper

62 100

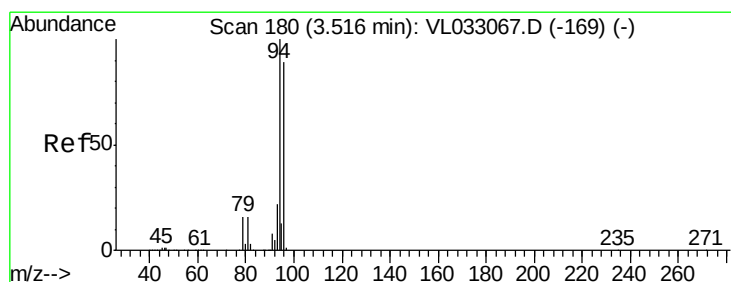
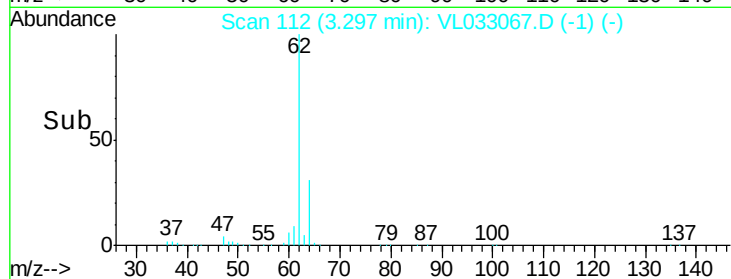
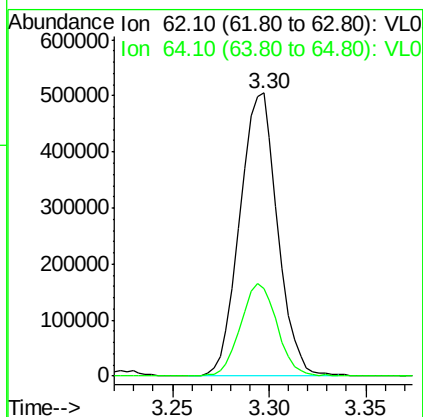
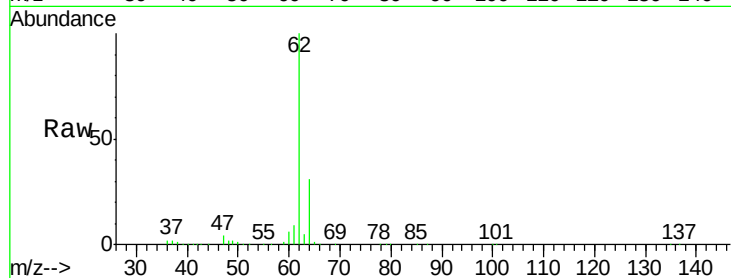
64 31.1 25.3 37.9

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#6

Bromomethane

Concen: 8.556 ppbv

RT: 3.52 min Scan# 180

Delta R.T. 0.00 min

Lab File: VL033067.D

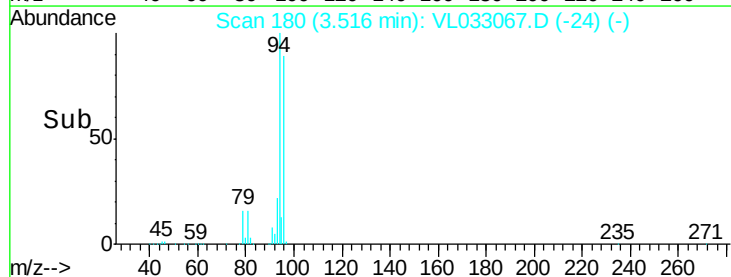
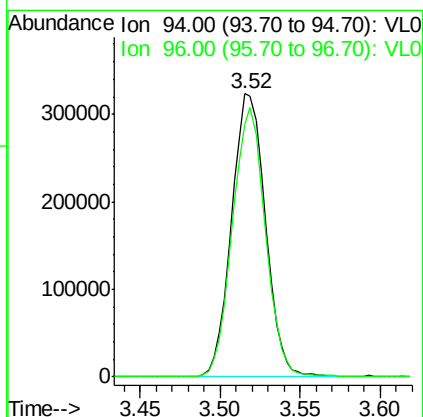
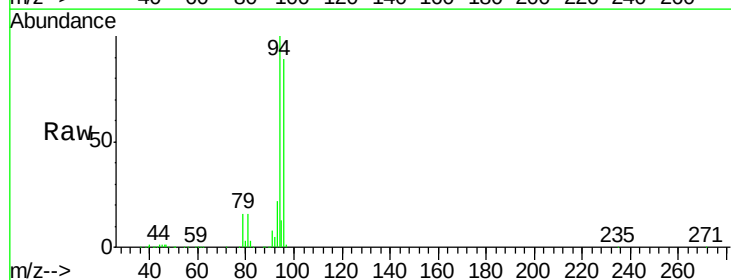
Acq: 4 Jan 2019 13:12

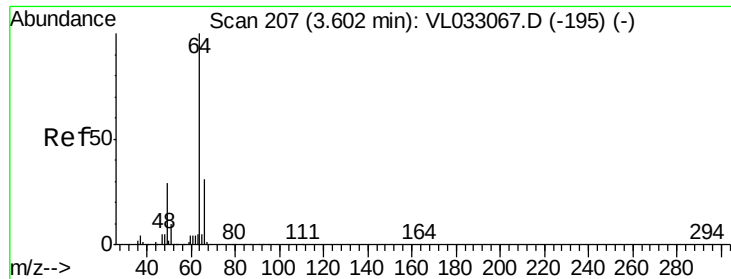
Tgt Ion: 94 Resp: 463565

Ion Ratio Lower Upper

94 100

96 89.3 72.8 109.2





#7

Chloroethane

Concen: 8.434 ppbv

RT: 3.60 min Scan# 207

Delta R.T. 0.00 min

Lab File: VL033067.D

Acq: 4 Jan 2019 13:12

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 64 Resp: 257935

Ion Ratio Lower Upper

64 100

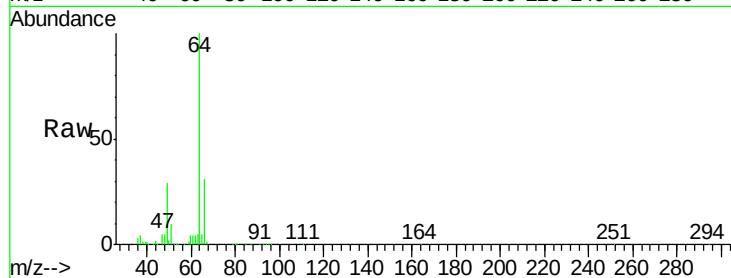
66 30.8 23.7 35.5

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

200000

150000

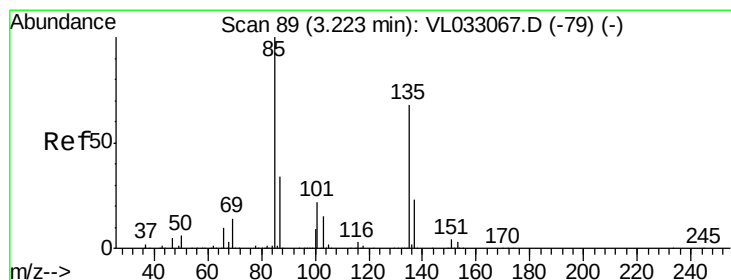
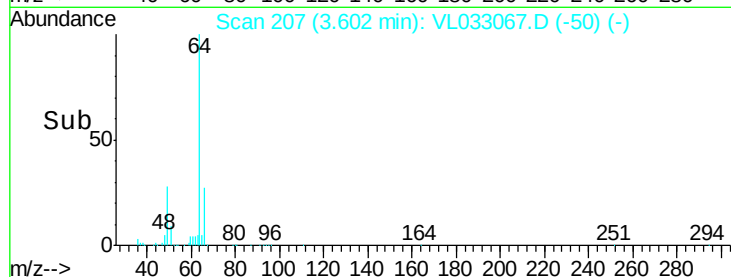
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50000

0

3.55 3.60 3.65

Time-->



#8

Dichlorotetrafluoroethane

Concen: 8.342 ppbv

RT: 3.22 min Scan# 89

Delta R.T. 0.00 min

Lab File: VL033067.D

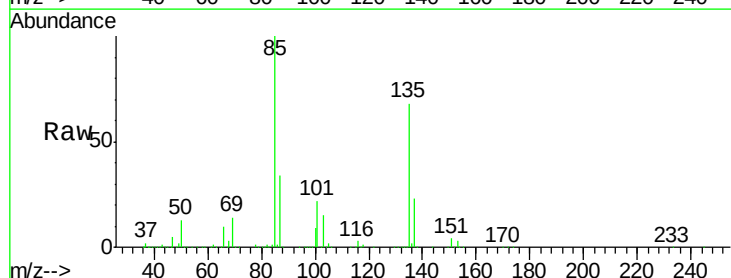
Acq: 4 Jan 2019 13:12

Tgt Ion: 85 Resp: 1755602

Ion Ratio Lower Upper

85 100

135 68.2 54.9 82.3



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

1500000

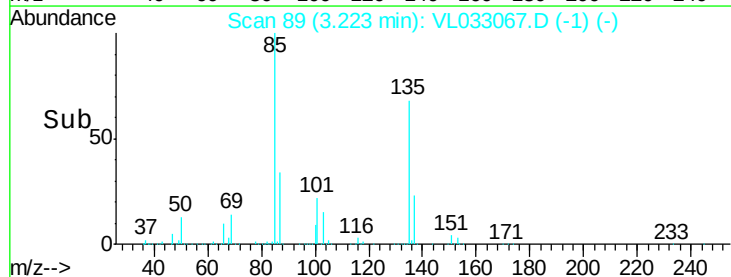
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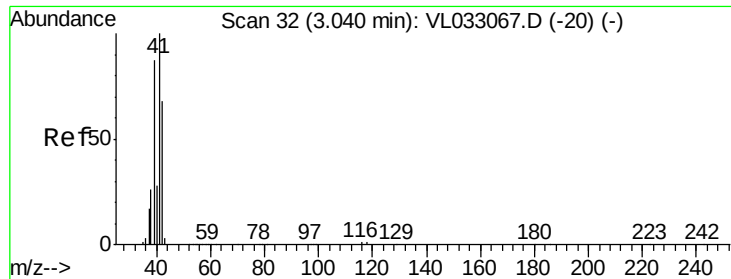
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3.20 3.25

Time-->





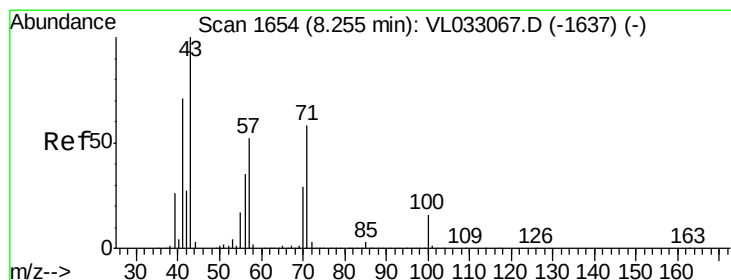
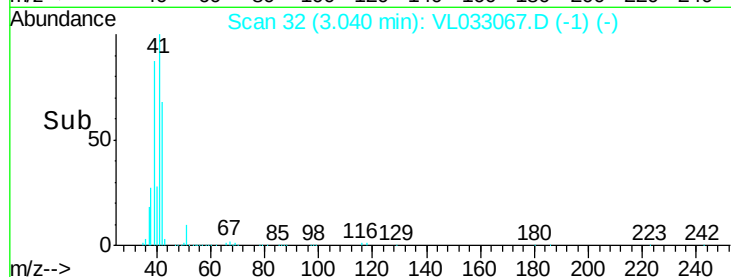
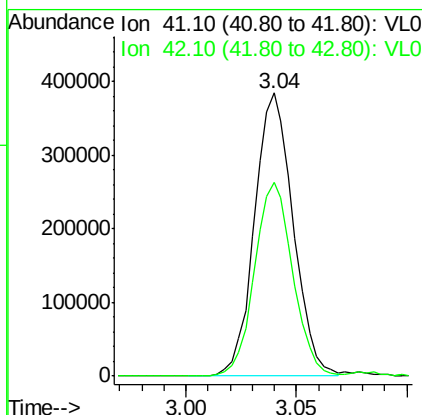
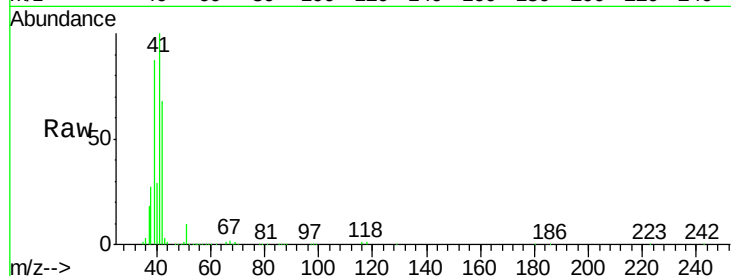
#9
 Propene
 Concen: 8.375 ppbv
 RT: 3.04 min Scan# 32
 Delta R.T. 0.00 min
 Lab File: VL033067.D
 Acq: 4 Jan 2019 13:12

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion: 41 Resp: 468617
 Ion Ratio Lower Upper
 41 100
 42 68.9 55.3 82.9

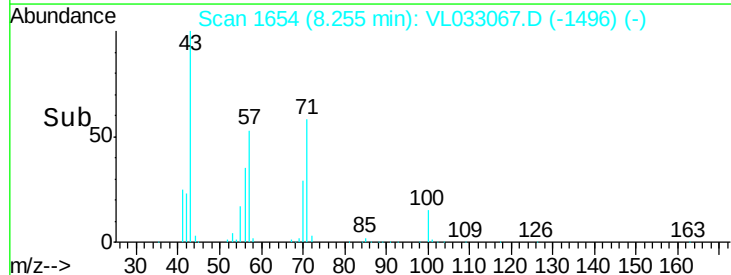
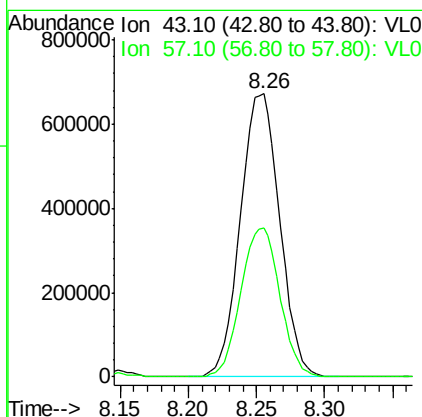
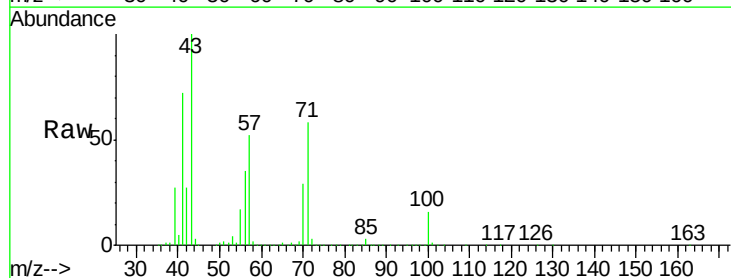
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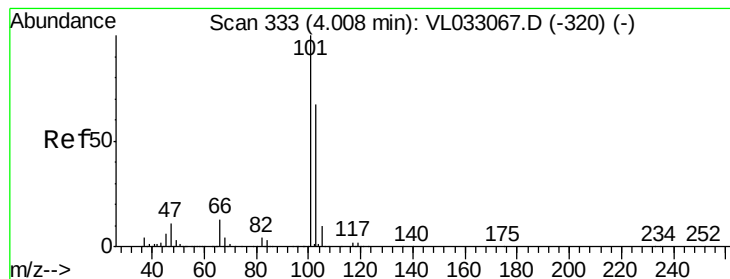
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 1/8/2019 12:02:06 AM



#10
 Heptane
 Concen: 9.358 ppbv
 RT: 8.26 min Scan# 1654
 Delta R.T. 0.01 min
 Lab File: VL033067.D
 Acq: 4 Jan 2019 13:12

Tgt Ion: 43 Resp: 1339438
 Ion Ratio Lower Upper
 43 100
 57 52.6 41.9 62.9





#11

Trichlorofluoromethane

Concen: 8.535 ppbv

RT: 4.01 min Scan# 333

Delta R.T. 0.00 min

Lab File: VL033067.D

Acq: 4 Jan 2019 13:12

Tot Ion:101 Resp: 1983455

Ion Ratio Lower Upper

101 100

103 67.3 51.7 77.5

Instrument :

MSVOA_L

ClientSampleId :

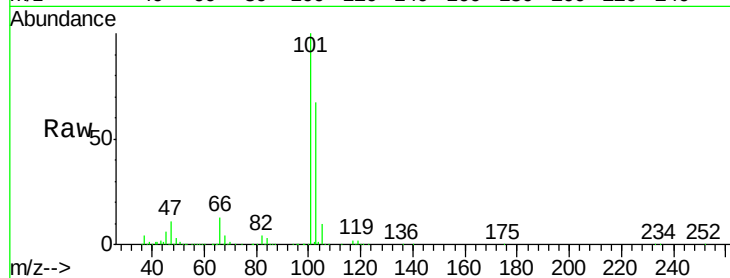
VSTDICCC010

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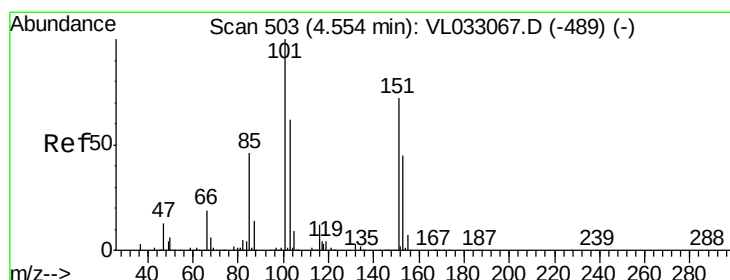
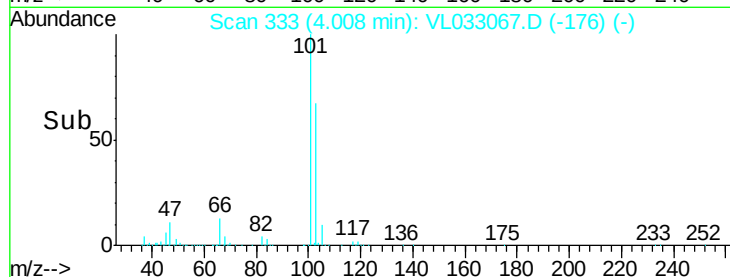
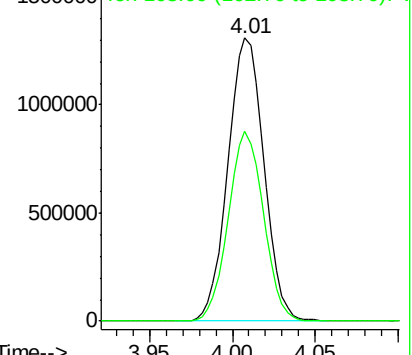
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1/8/2019 12:02:06 AM



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 8.660 ppbv

RT: 4.55 min Scan# 503

Delta R.T. 0.00 min

Lab File: VL033067.D

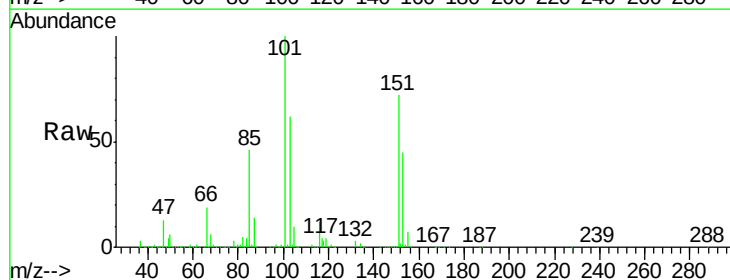
Acq: 4 Jan 2019 13:12

Tgt Ion:101 Resp: 1360184

Ion Ratio Lower Upper

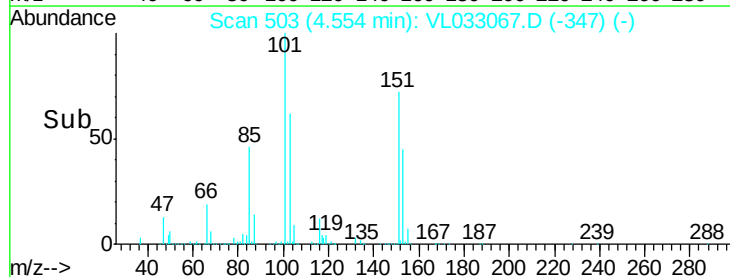
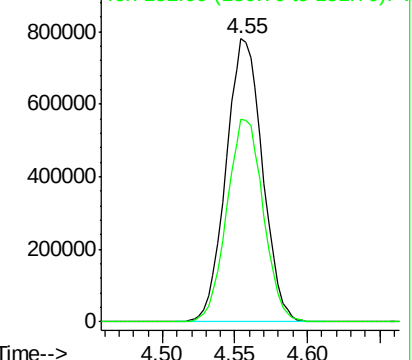
101 100

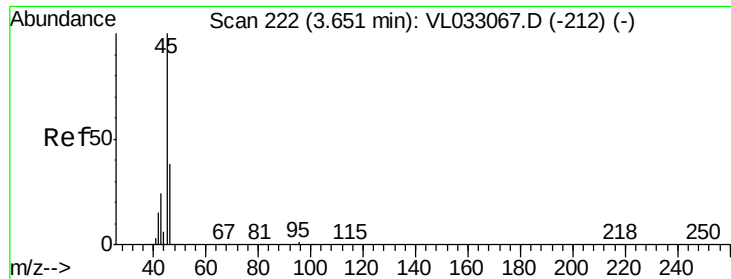
151 71.8 58.3 87.5



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





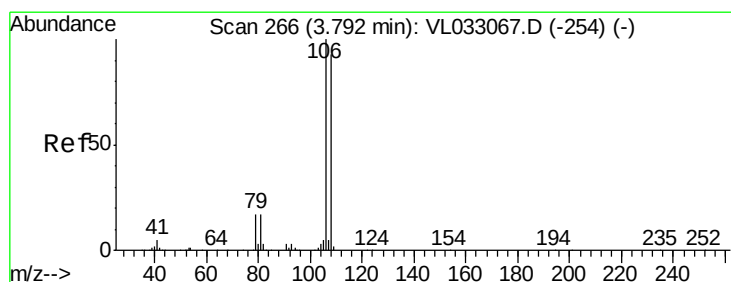
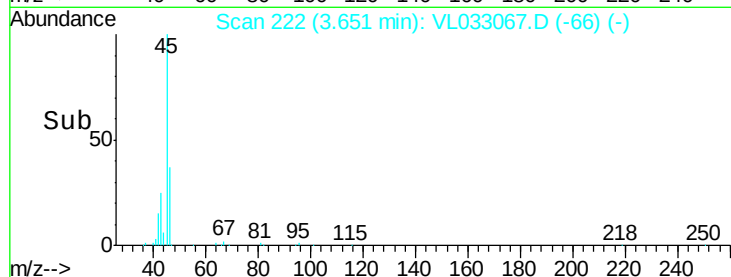
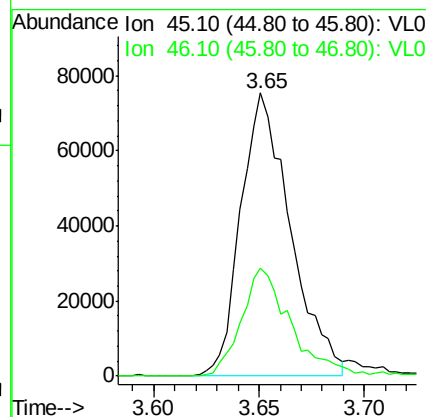
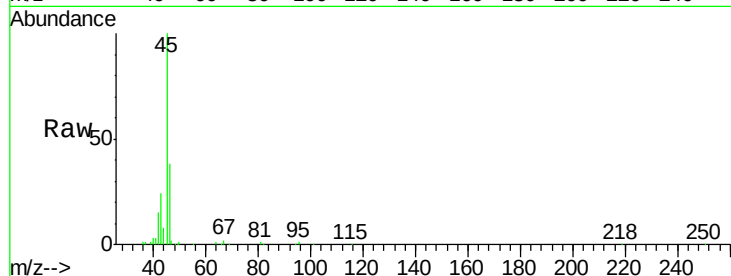
#13
Ethanol
Concen: 5.677 ppbv
RT: 3.65 min Scan# 222
Delta R.T. 0.00 min
Lab File: VL033067.D
Acq: 4 Jan 2019 13:12

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion	Ratio	Lower	Upper
45	100		
46	38.8	13.8	55.2

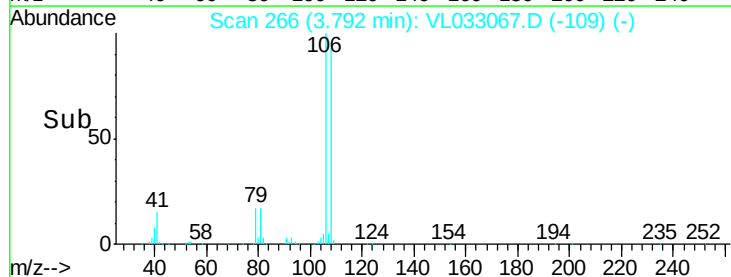
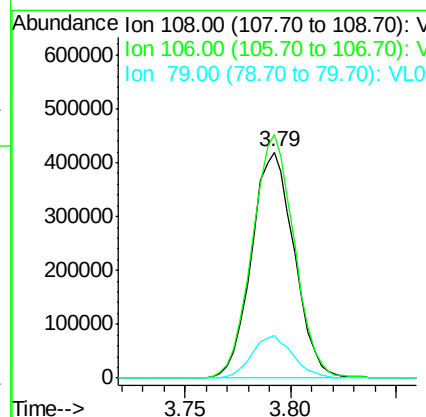
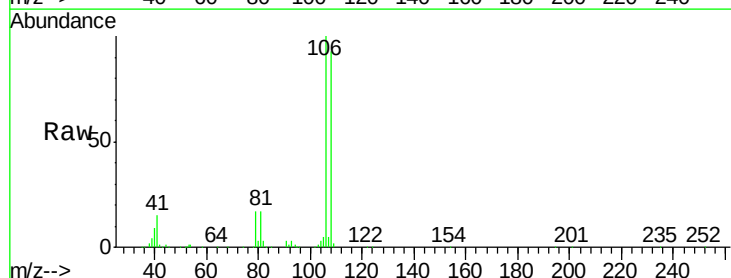
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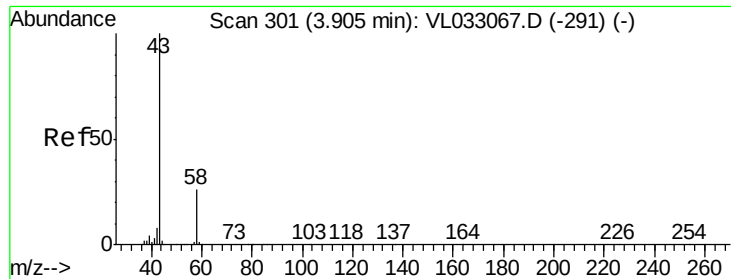
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#14
Bromoethene
Concen: 8.843 ppbv
RT: 3.79 min Scan# 266
Delta R.T. 0.00 min
Lab File: VL033067.D
Acq: 4 Jan 2019 13:12

Tgt Ion	Ratio	Lower	Upper
108	100		
106	106.8	86.4	129.6
79	18.5	14.3	21.5





#15

Acetone

Concen: 8.085 ppbv

RT: 3.90 min Scan# 301

Delta R.T. 0.00 min

Lab File: VL033067.D

Acq: 4 Jan 2019 13:12

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 43 Resp: 1252693

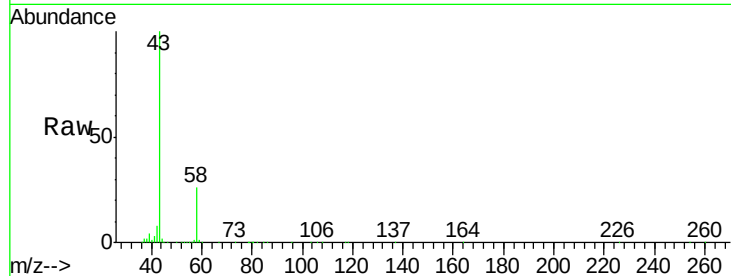
Ion Ratio Lower Upper

43 100

58 26.0 21.1 31.7

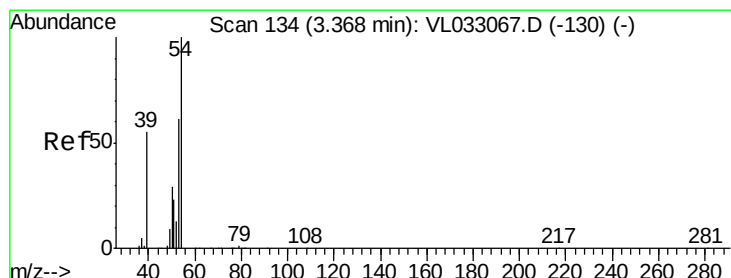
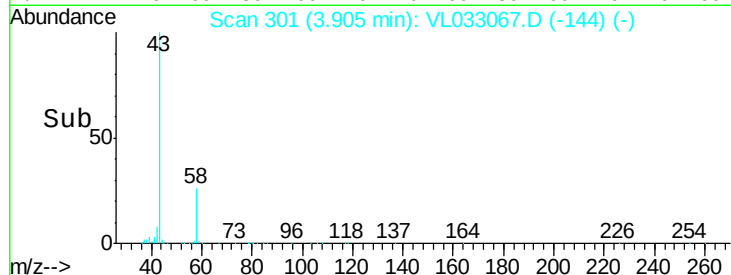
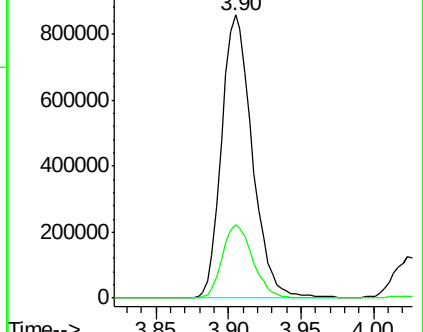
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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 8.166 ppbv

RT: 3.37 min Scan# 134

Delta R.T. 0.00 min

Lab File: VL033067.D

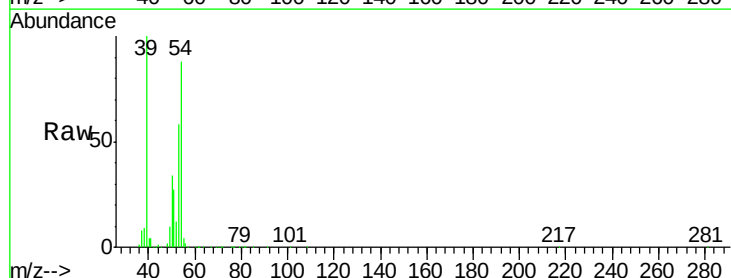
Acq: 4 Jan 2019 13:12

Tgt Ion: 39 Resp: 551263

Ion Ratio Lower Upper

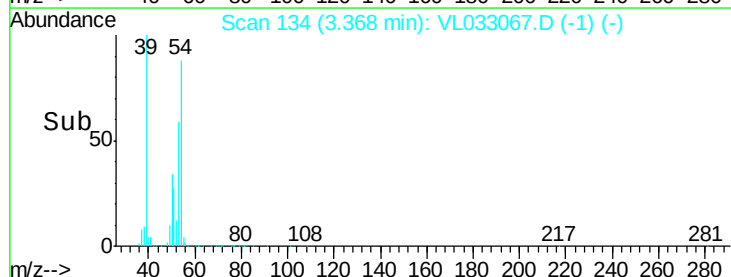
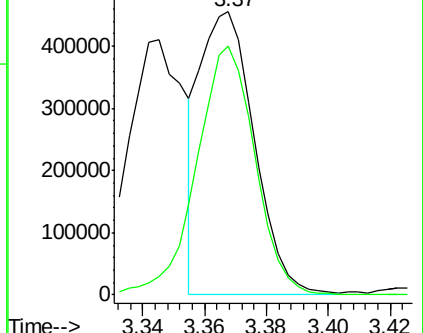
39 100

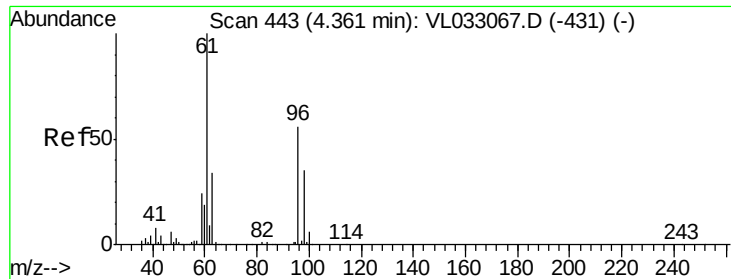
54 96.1 73.7 110.5



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0





#17

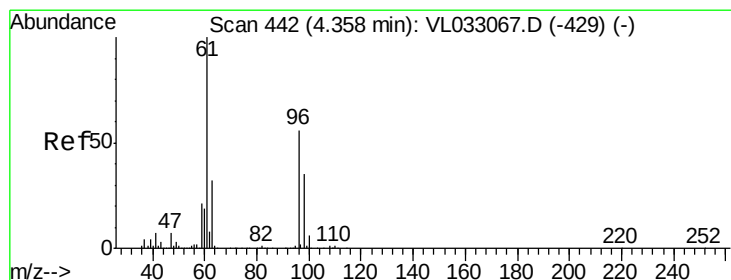
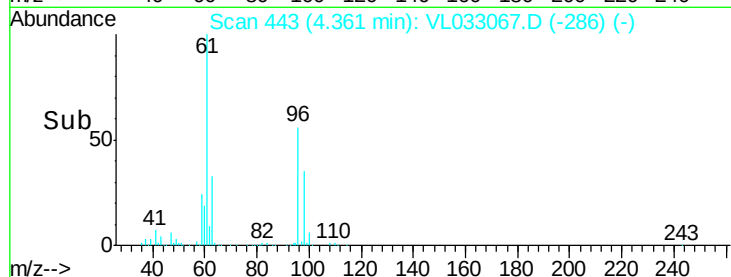
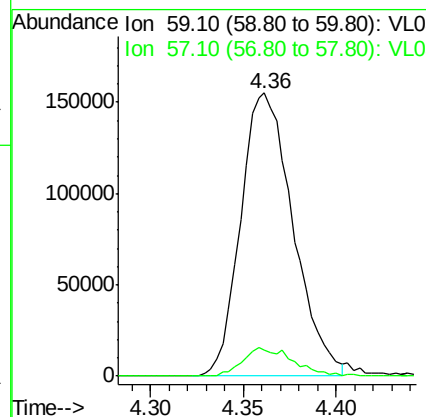
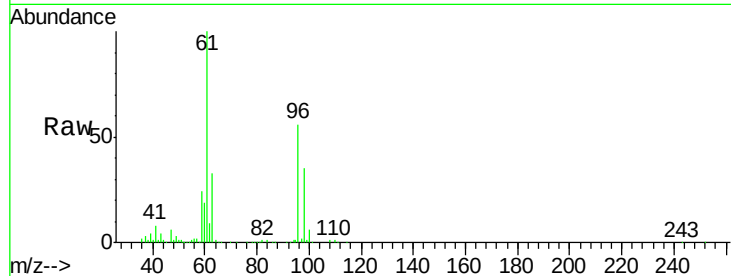
tert-Butyl alcohol
Concen: 8.782 ppbv
RT: 4.36 min Scan# 443
Delta R.T. 0.00 min
Lab File: VL033067.D
Acq: 4 Jan 2019 13:12

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion	59	Resp	303954
Ion	Ratio	Lower	Upper
59	100		
57	9.9	7.7	11.5

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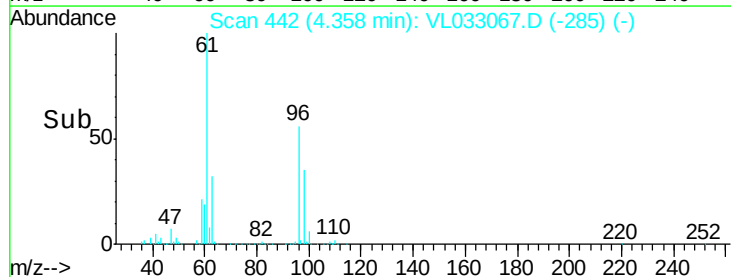
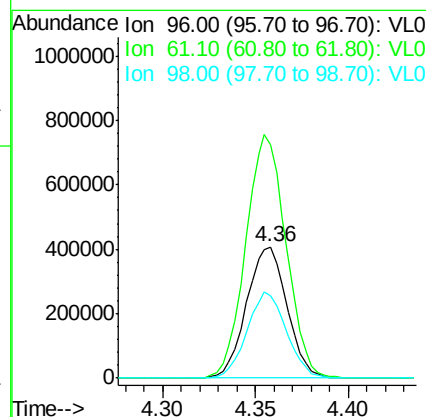
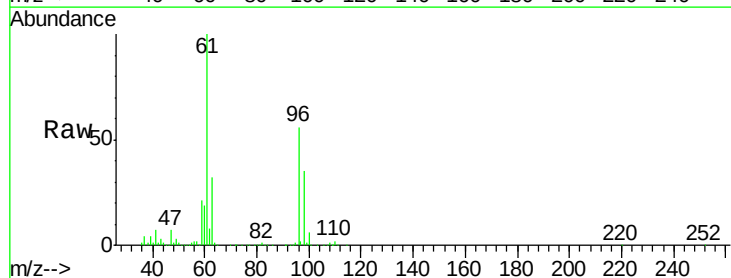
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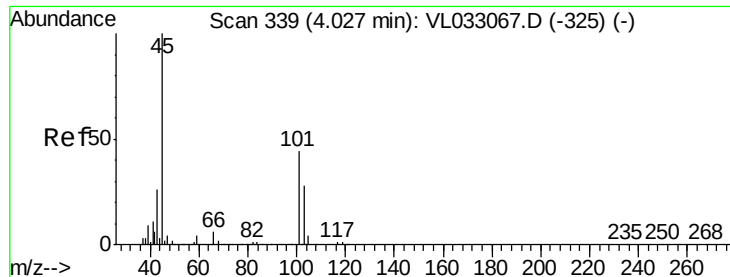


#18

1,1-Dichloroethene
Concen: 8.731 ppbv
RT: 4.36 min Scan# 442
Delta R.T. 0.00 min
Lab File: VL033067.D
Acq: 4 Jan 2019 13:12

Tgt Ion	96	Resp	614534
Ion	Ratio	Lower	Upper
96	100		
61	177.8	143.7	215.5
98	62.4	52.1	78.1





#19

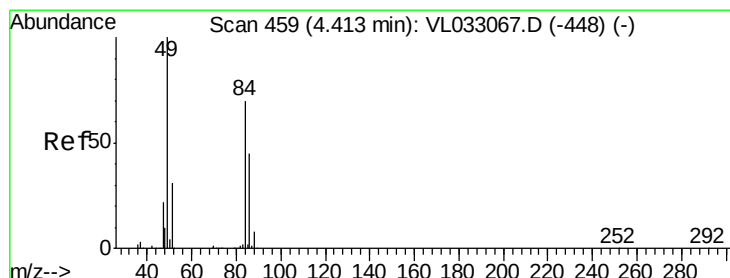
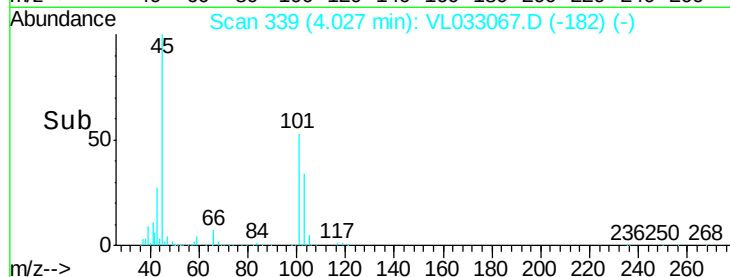
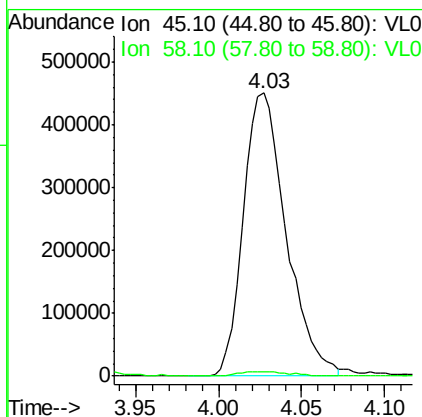
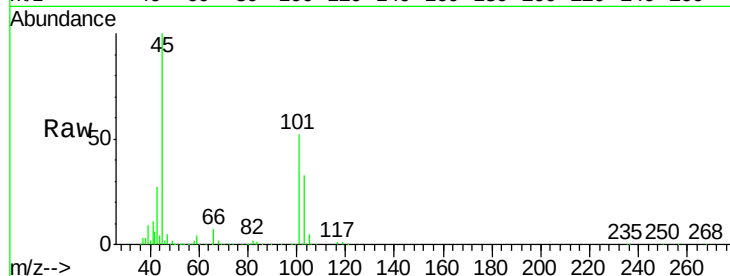
Isopropyl Alcohol
 Concen: 7.808 ppbv
 RT: 4.03 min Scan# 339
 Delta R.T. 0.00 min
 Lab File: VL033067.D
 Acq: 4 Jan 2019 13:12

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion	Ratio	Lower	Upper
45	100		
58	2.1	1.4	2.2

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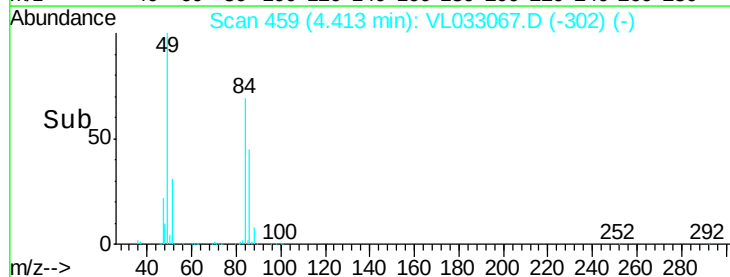
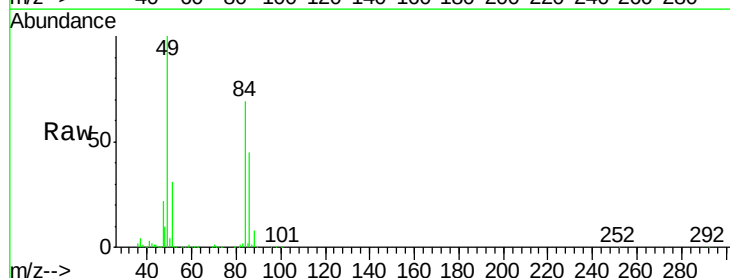
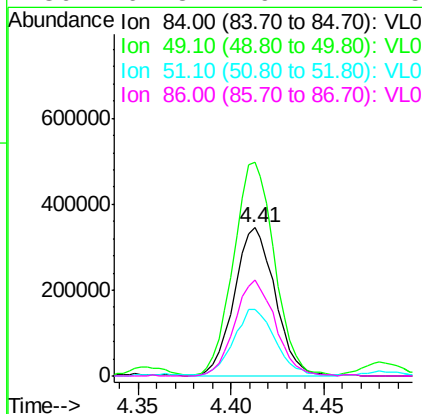
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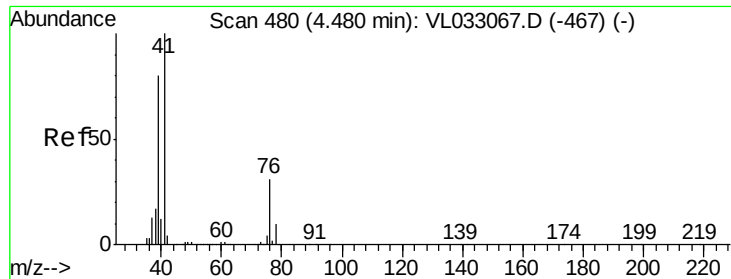


#20

Methylene Chloride
 Concen: 7.676 ppbv
 RT: 4.41 min Scan# 459
 Delta R.T. 0.00 min
 Lab File: VL033067.D
 Acq: 4 Jan 2019 13:12

Tgt Ion	Ratio	Lower	Upper
84	100		
49	143.8	115.8	173.6
51	44.2	35.7	53.5
86	64.8	49.7	74.5





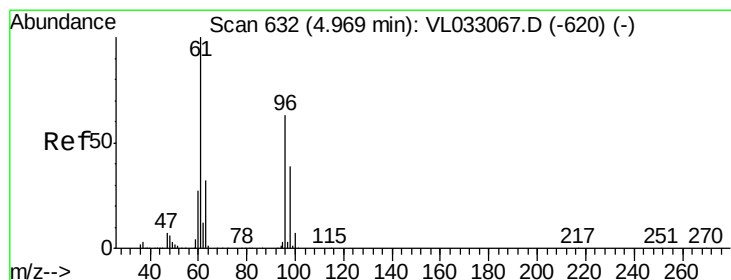
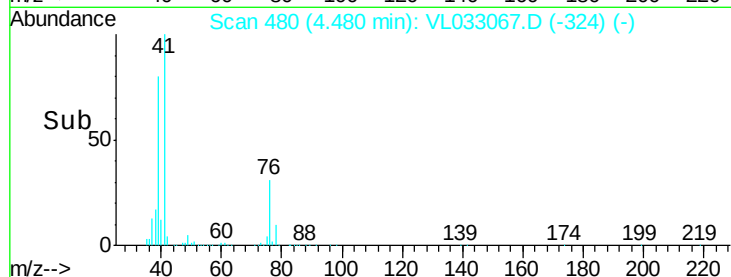
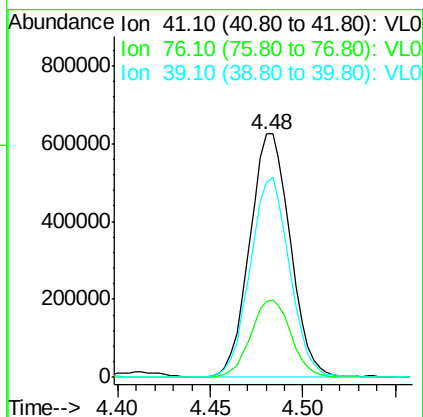
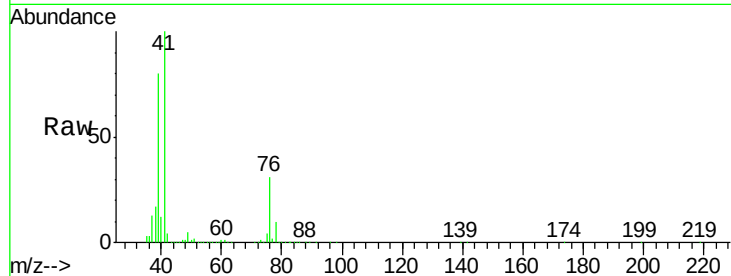
#21
Allvl Chloride
Concen: 9.001 ppbv
RT: 4.48 min Scan# 480
Delta R.T. 0.00 min
Lab File: VL033067.D
Acq: 4 Jan 2019 13:12

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion	Ratio	Lower	Upper
41	100		
76	31.8	24.6	36.8
39	80.6	62.8	94.2

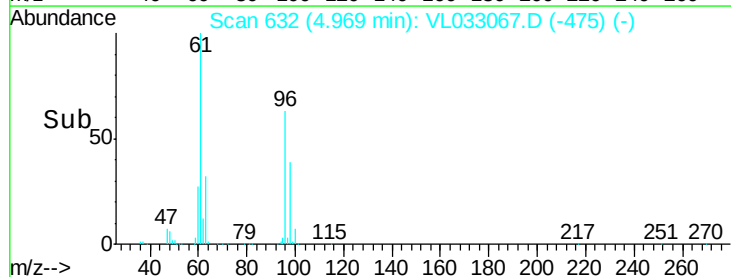
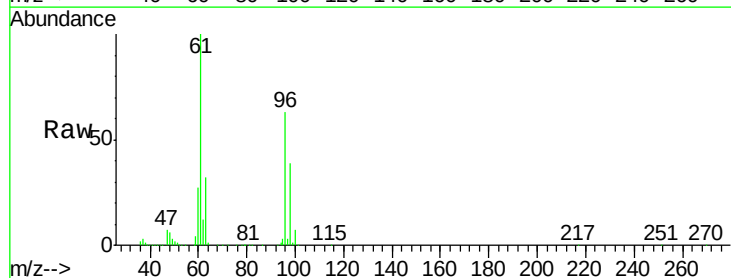
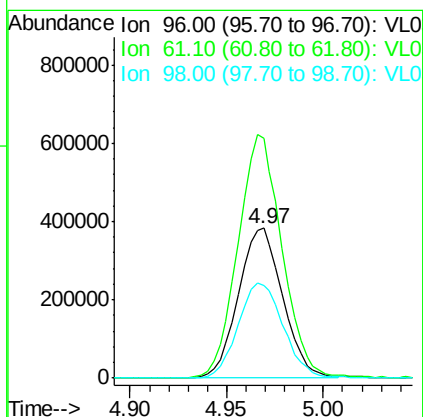
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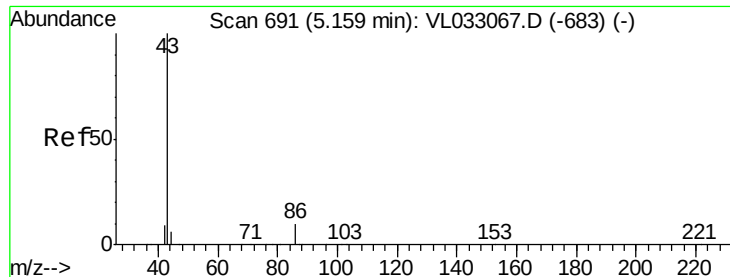
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#22
trans-1,2-Dichloroethene
Concen: 8.869 ppbv
RT: 4.97 min Scan# 632
Delta R.T. 0.00 min
Lab File: VL033067.D
Acq: 4 Jan 2019 13:12

Tgt Ion	Ratio	Lower	Upper
96	100		
61	159.7	125.2	187.8
98	61.8	50.9	76.3





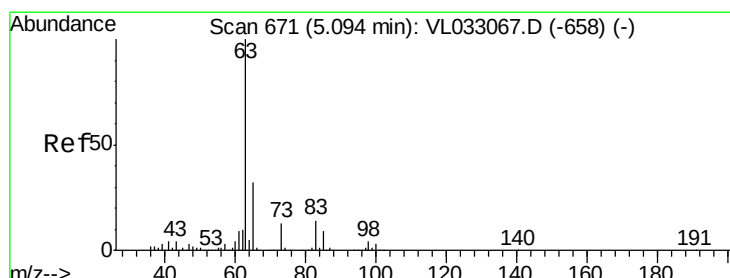
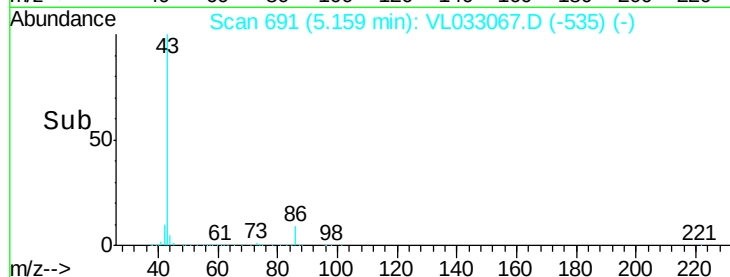
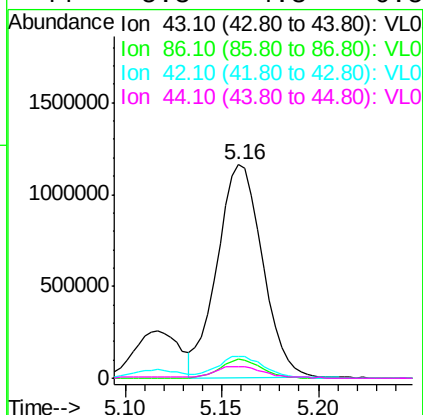
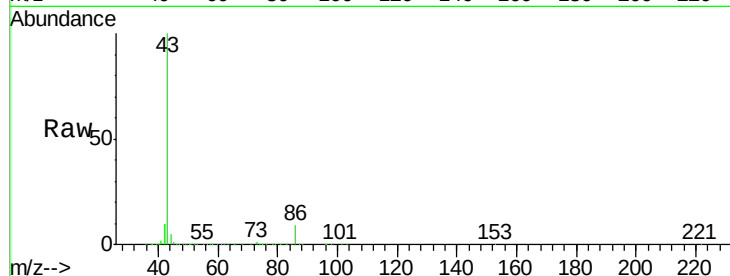
#23
 Vinyl Acetate
 Concen: 8.816 ppbv
 RT: 5.16 min Scan# 691
 Delta R.T. 0.00 min
 Lab File: VL033067.D
 Acq: 4 Jan 2019 13:12

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion: 43 Resp: 1887693
 Ion Ratio Lower Upper
 43 100
 86 8.7 6.2 9.4
 42 10.1 8.1 12.1
 44 5.3 4.3 6.5

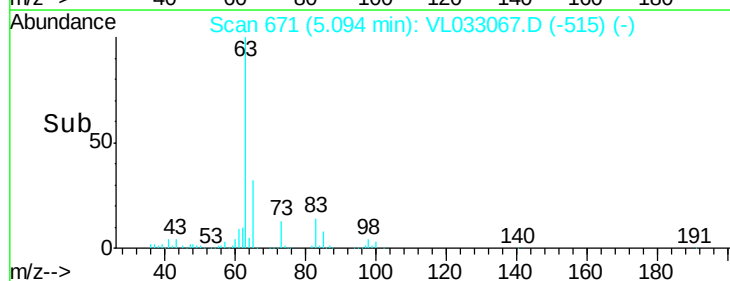
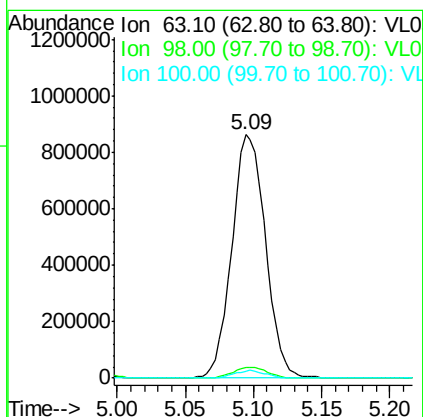
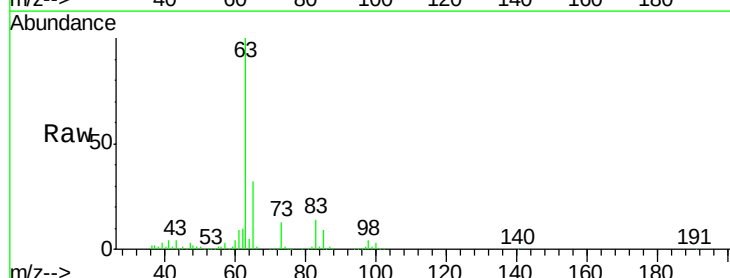
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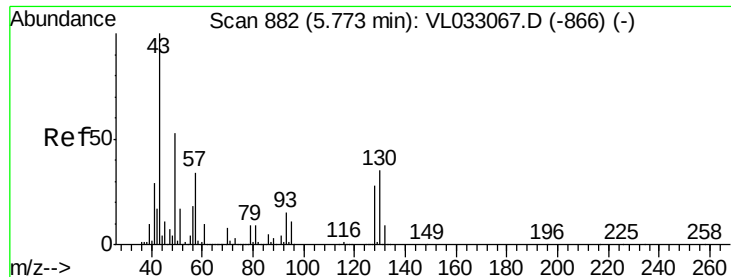
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#24
 1,1-Dichloroethane
 Concen: 8.289 ppbv
 RT: 5.09 min Scan# 671
 Delta R.T. 0.00 min
 Lab File: VL033067.D
 Acq: 4 Jan 2019 13:12

Tgt Ion: 63 Resp: 1473316
 Ion Ratio Lower Upper
 63 100
 98 4.4 2.4 7.2
 100 3.0 1.4 4.0





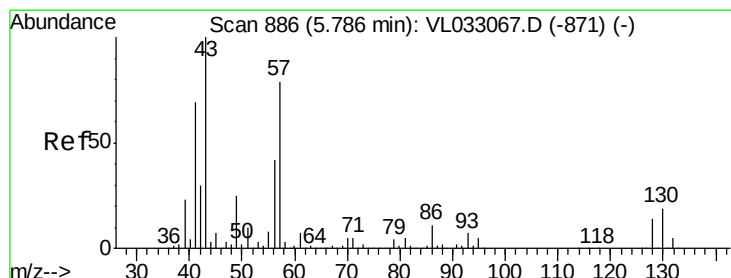
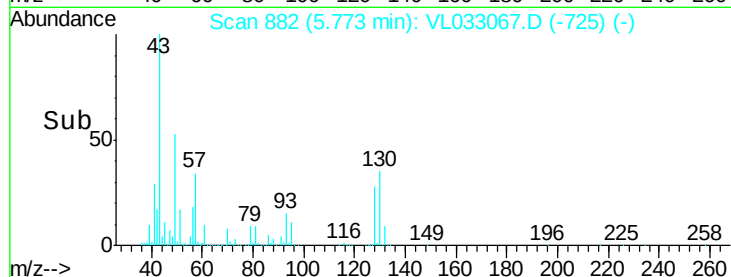
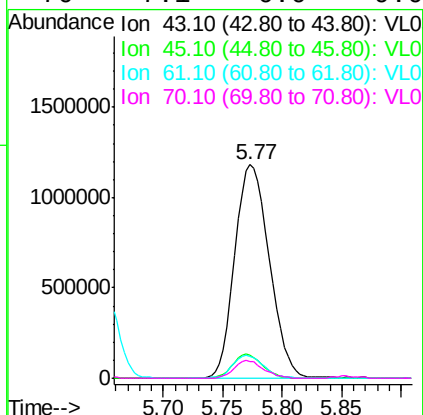
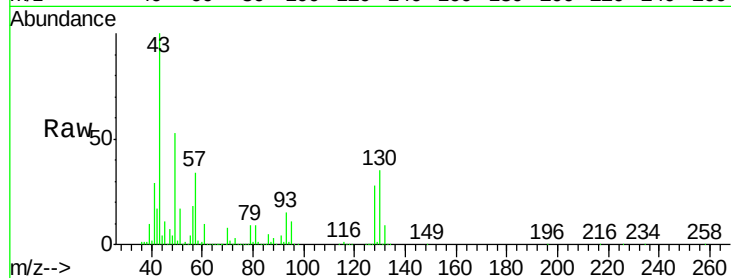
#25
Ethyl Acetate
Concen: 8.607 ppbv
RT: 5.77 min Scan# 882
Delta R.T. 0.00 min
Lab File: VL033067.D
Acq: 4 Jan 2019 13:12

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion	Ion	Ratio	Lower	Upper
43	100			
45	9.8	7.9	11.9	
61	9.6	7.8	11.8	
70	7.1	6.0	9.0	

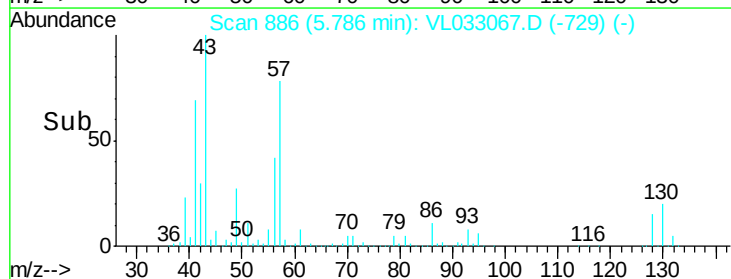
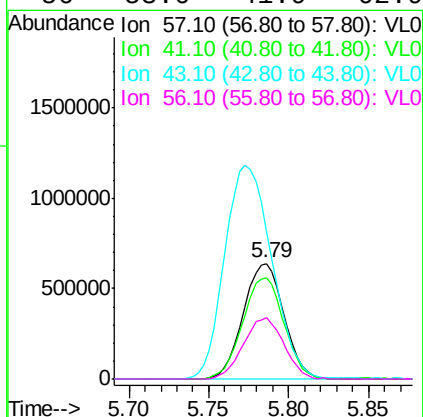
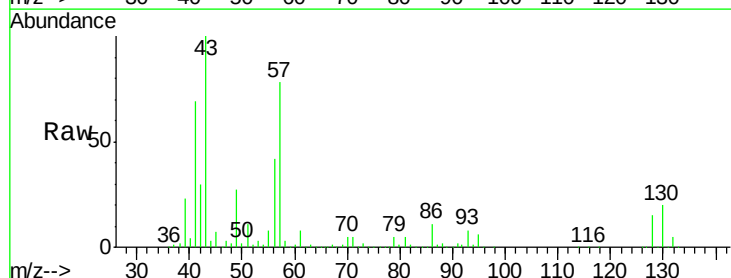
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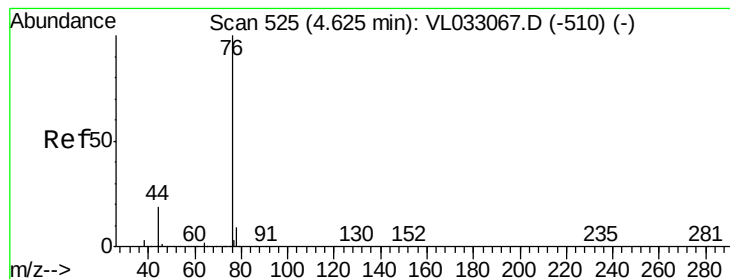
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#26
Hexane
Concen: 8.418 ppbv
RT: 5.79 min Scan# 886
Delta R.T. 0.00 min
Lab File: VL033067.D
Acq: 4 Jan 2019 13:12

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	89.5	70.8	106.2	
43	215.4	171.8	257.6	
56	53.0	41.9	62.9	





#27

Carbon Disulfide

Concen: 9.317 ppbv

RT: 4.62 min Scan# 525

Delta R.T. 0.00 min

Lab File: VL033067.D

Acq: 4 Jan 2019 13:12

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 76 Resp: 1532052

Ion Ratio Lower Upper

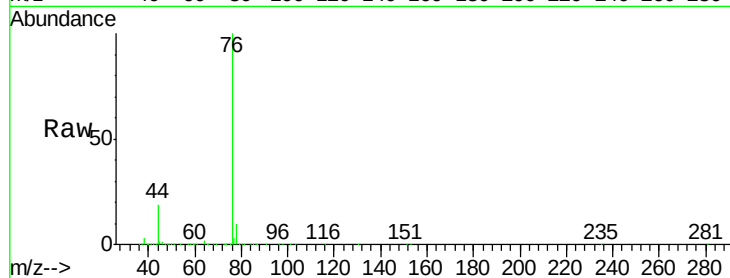
76 100

44 18.2 13.9 20.9

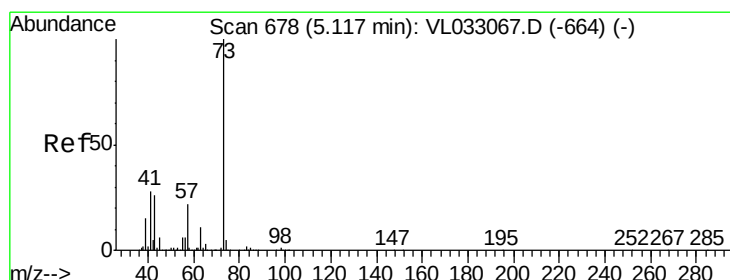
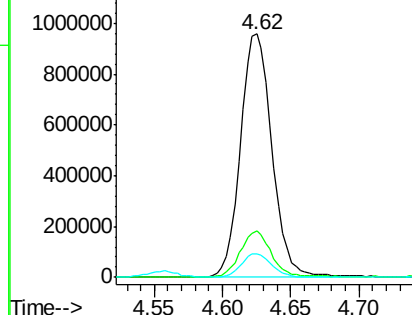
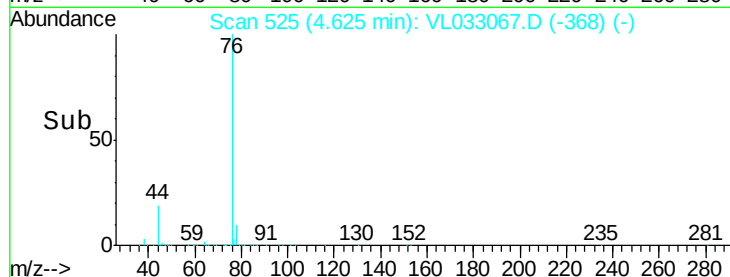
78 9.5 7.3 10.9

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



#28

Methyl tert-Butyl Ether

Concen: 8.697 ppbv

RT: 5.12 min Scan# 678

Delta R.T. 0.00 min

Lab File: VL033067.D

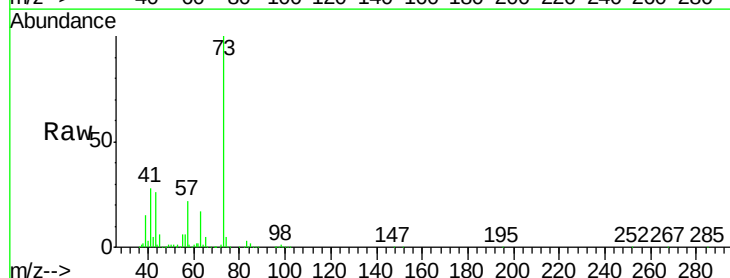
Acq: 4 Jan 2019 13:12

Tgt Ion: 73 Resp: 1791563

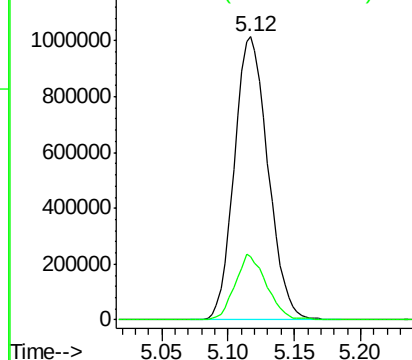
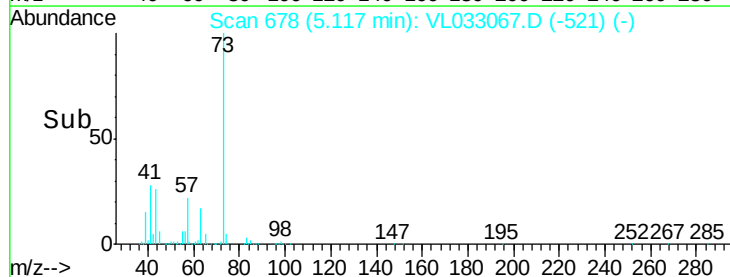
Ion Ratio Lower Upper

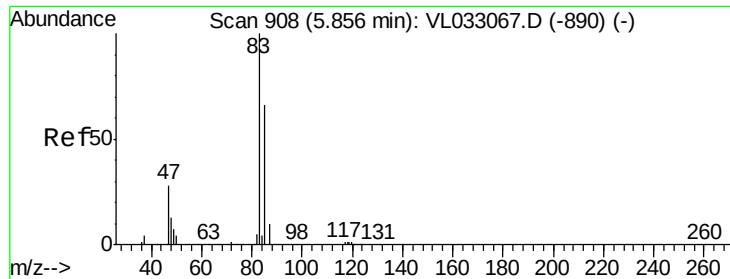
73 100

57 21.7 17.5 26.3



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





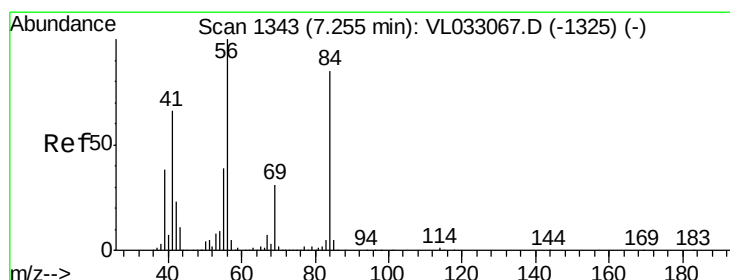
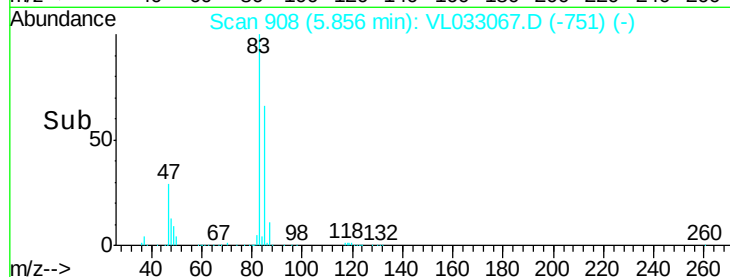
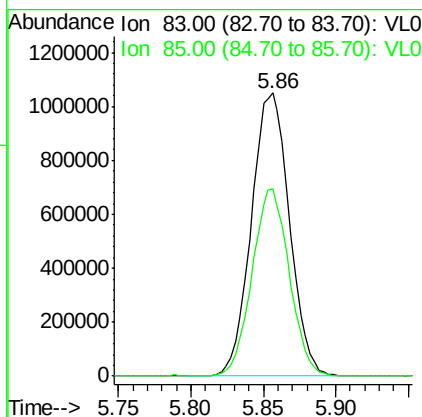
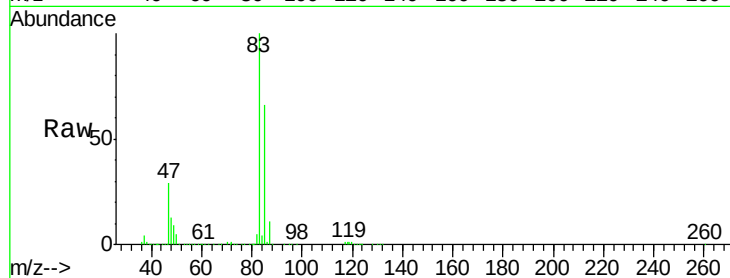
#29
Chloroform
Concen: 8.801 ppbv
RT: 5.86 min Scan# 908
Delta R.T. 0.00 min
Lab File: VL033067.D
Acq: 4 Jan 2019 13:12

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion: 83 Resp: 1919041
Ion Ratio Lower Upper
83 100
85 66.2 52.5 78.7

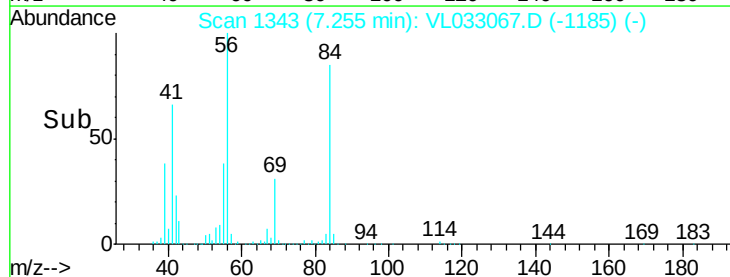
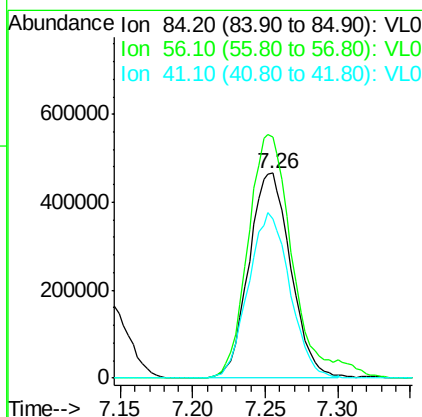
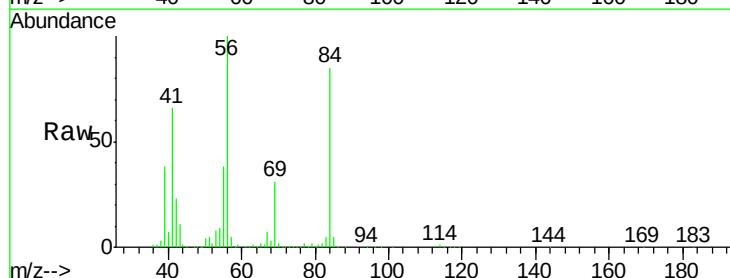
Manual Integrations
APPROVED

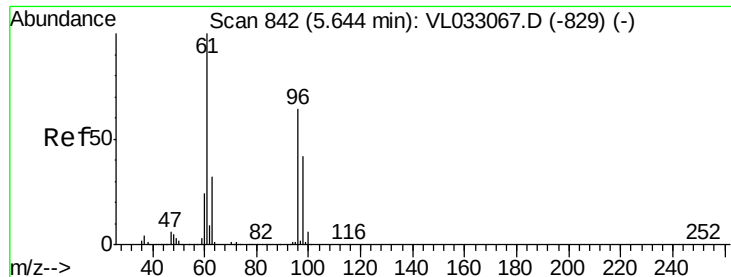
MMDadoda
1/8/2019 12:02:06 AM



#30
Cyclohexane
Concen: 9.472 ppbv
RT: 7.26 min Scan# 1343
Delta R.T. 0.01 min
Lab File: VL033067.D
Acq: 4 Jan 2019 13:12

Tgt Ion: 84 Resp: 935562
Ion Ratio Lower Upper
84 100
56 127.2 101.8 152.6
41 80.3 63.2 94.8





#31

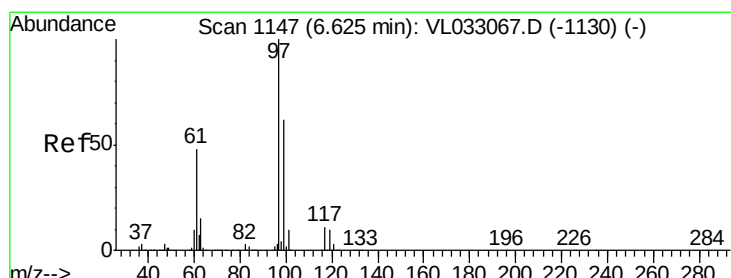
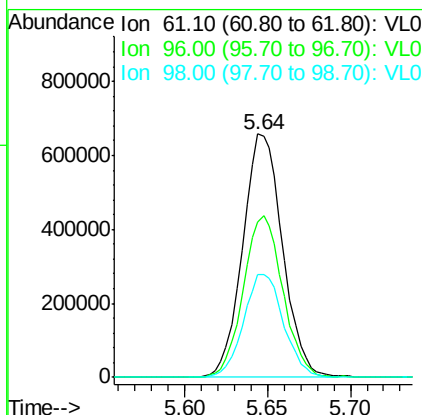
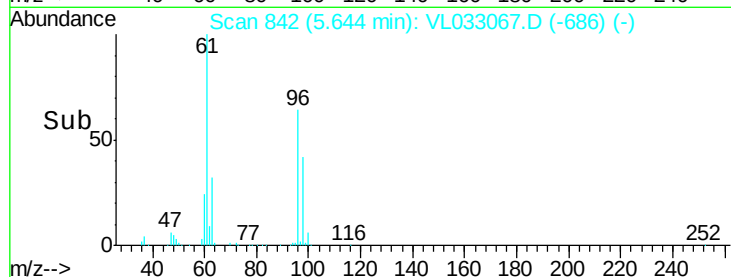
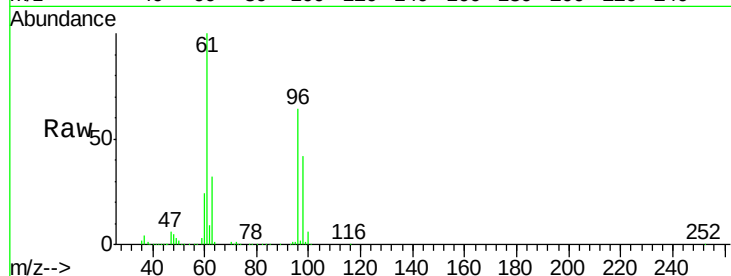
cis-1,2-Dichloroethene
Concen: 9.009 ppbv
RT: 5.64 min Scan# 842
Delta R.T. 0.00 min
Lab File: VL033067.D
Acq: 4 Jan 2019 13:12

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion	Ratio	Lower	Upper
61	100		
96	63.9	52.8	79.2
98	42.2	33.8	50.6

Manual Integrations
APPROVED

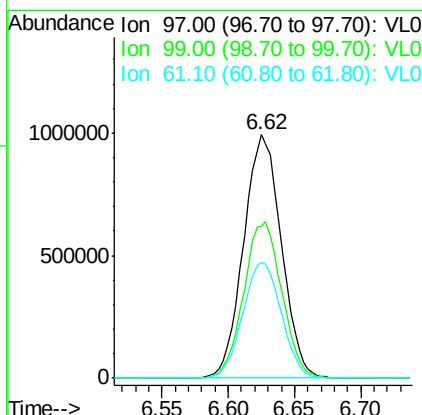
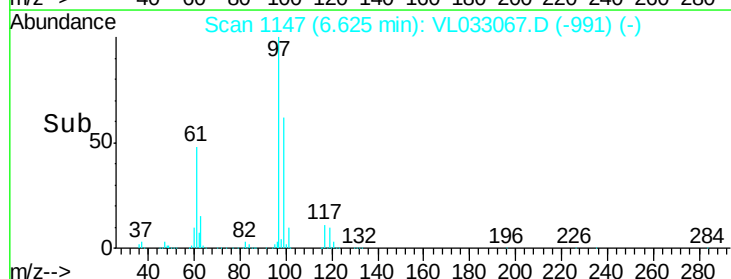
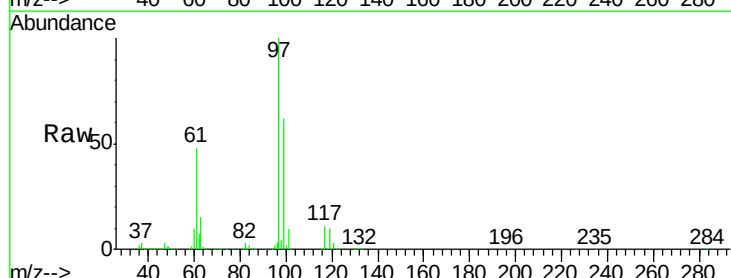
MMDadoda
1/8/2019 12:02:06 AM

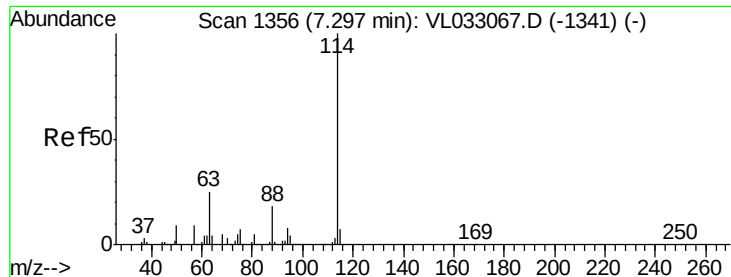


#32

1,1,1-Trichloroethane
Concen: 8.551 ppbv
RT: 6.62 min Scan# 1147
Delta R.T. 0.00 min
Lab File: VL033067.D
Acq: 4 Jan 2019 13:12

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.7	51.1	76.7
61	48.6	38.3	57.5





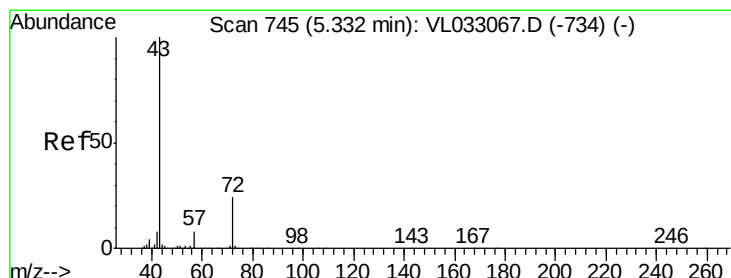
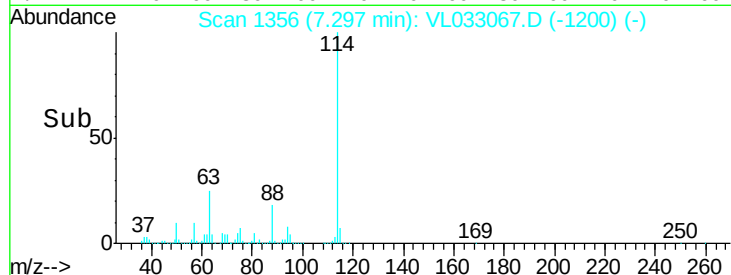
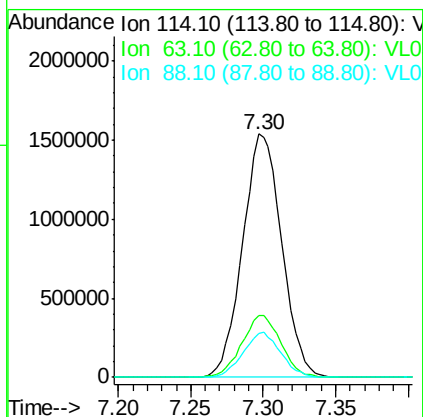
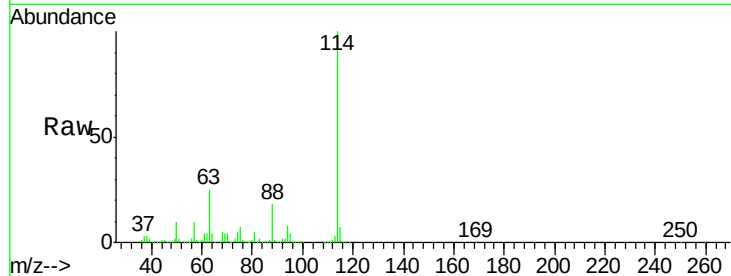
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.30 min Scan# 1356
 Delta R.T. 0.00 min
 Lab File: VL033067.D
 Acq: 4 Jan 2019 13:12

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion	Ratio	Lower	Upper
114	100		
63	25.7	20.1	30.1
88	17.9	14.0	21.0

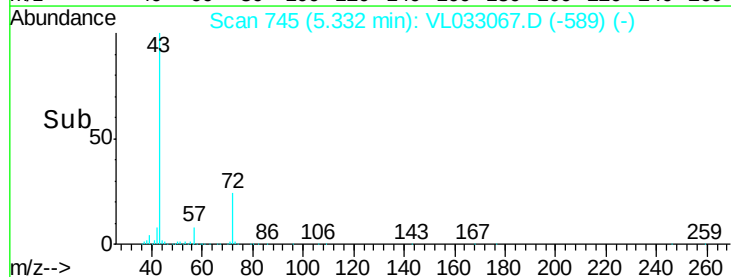
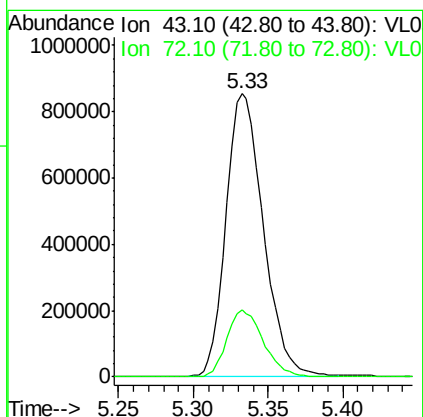
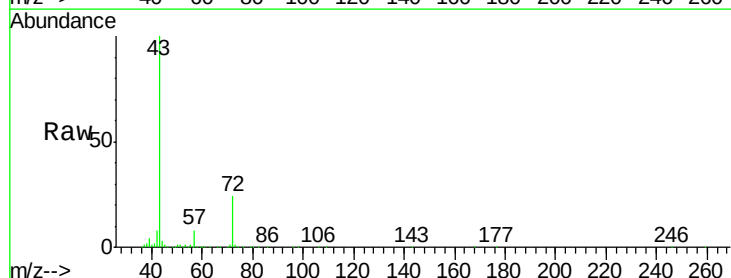
Manual Integrations
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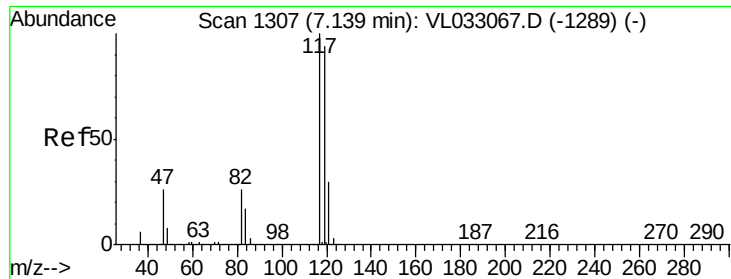
MMDadoda
 1/8/2019 12:02:06 AM



#34
 2-Butanone
 Concen: 8.779 ppbv
 RT: 5.33 min Scan# 745
 Delta R.T. 0.00 min
 Lab File: VL033067.D
 Acq: 4 Jan 2019 13:12

Tgt Ion	Ratio	Lower	Upper
43	100		
72	23.4	18.9	28.3





#35

Carbon Tetrachloride

Concen: 8.721 ppbv

RT: 7.14 min Scan# 1307

Delta R.T. 0.00 min

Lab File: VL033067.D

Acq: 4 Jan 2019 13:12

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion:117 Resp: 2172828

Ion Ratio Lower Upper

117 100

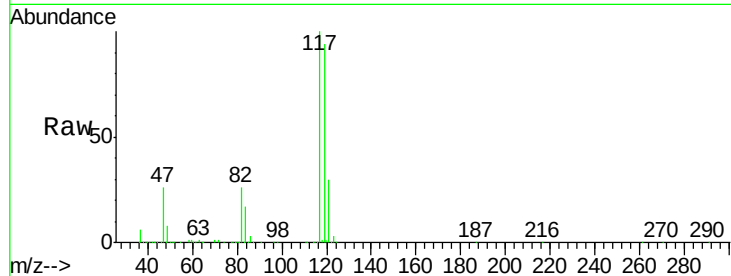
119 94.2 76.5 114.7

121 29.8 25.2 37.8

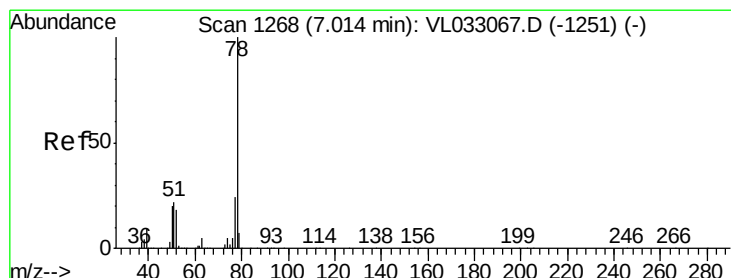
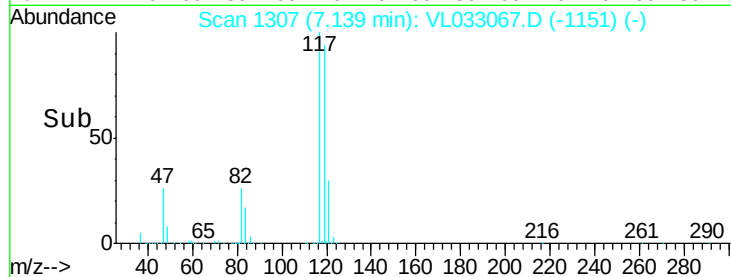
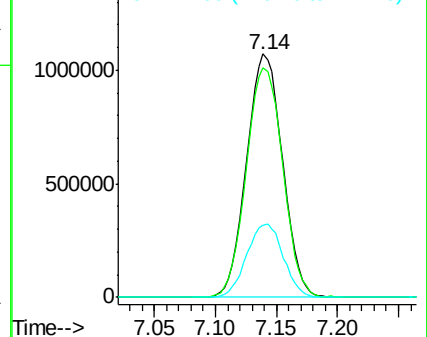
Manual Integrations
APPROVED

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1/8/2019 12:02:06 AM



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



#36

Benzene

Concen: 9.194 ppbv

RT: 7.01 min Scan# 1268

Delta R.T. 0.00 min

Lab File: VL033067.D

Acq: 4 Jan 2019 13:12

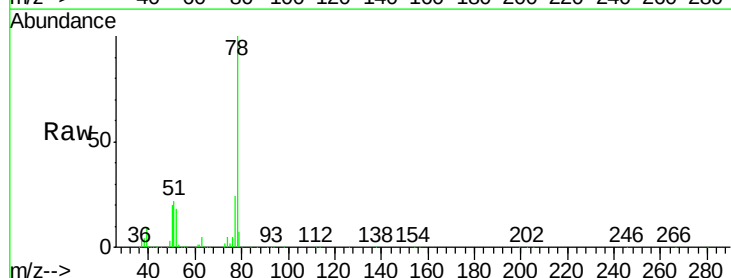
Tgt Ion: 78 Resp: 2183013

Ion Ratio Lower Upper

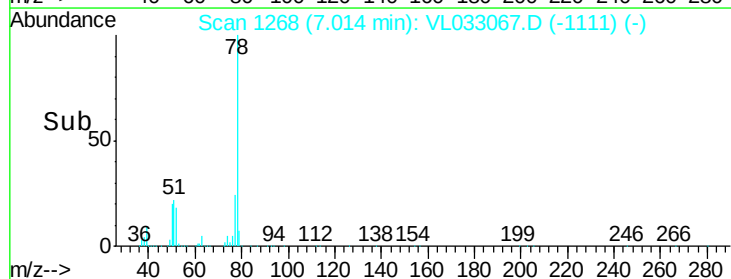
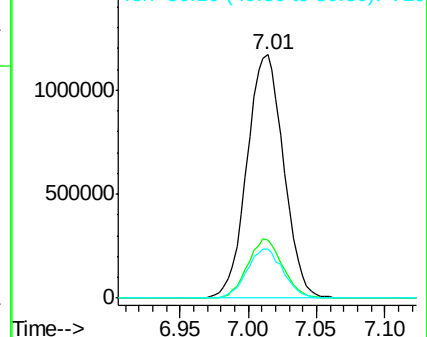
78 100

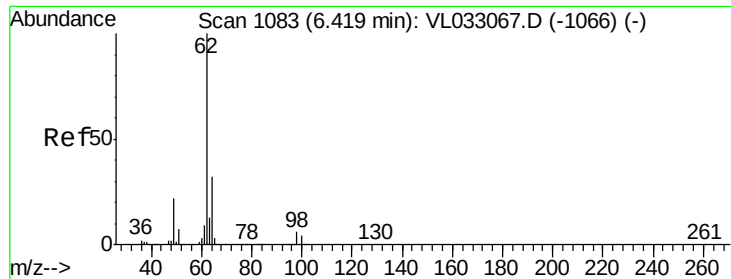
77 23.8 18.5 27.7

50 20.1 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





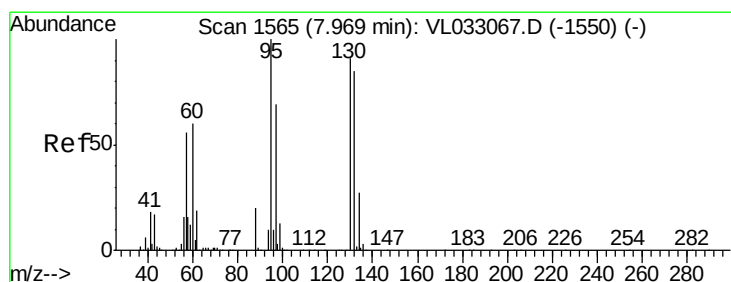
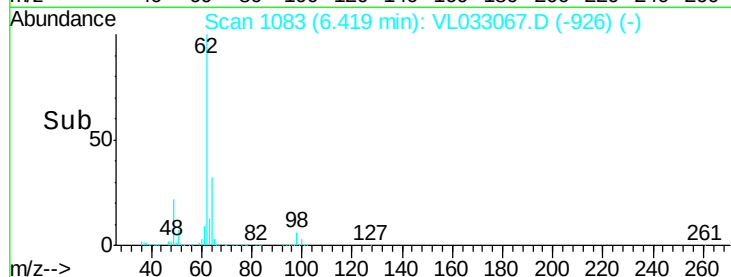
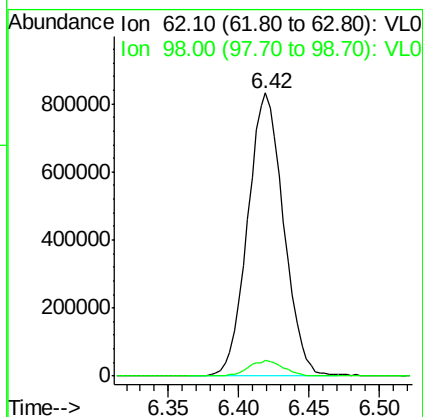
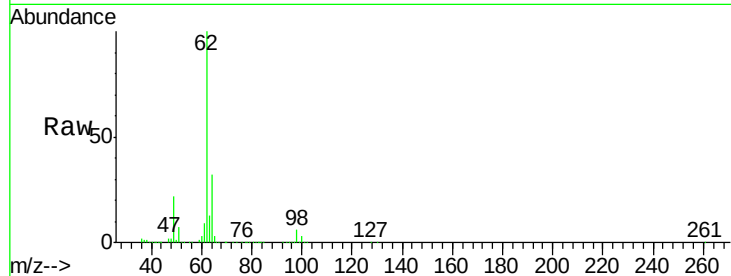
#37
1,2-Dichloroethane
Concen: 9.181 ppbv
RT: 6.42 min Scan# 1083
Delta R.T. 0.00 min
Lab File: VL033067.D
Acq: 4 Jan 2019 13:12

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion	Ratio	Lower	Upper
62	100		
98	5.4	4.6	7.0

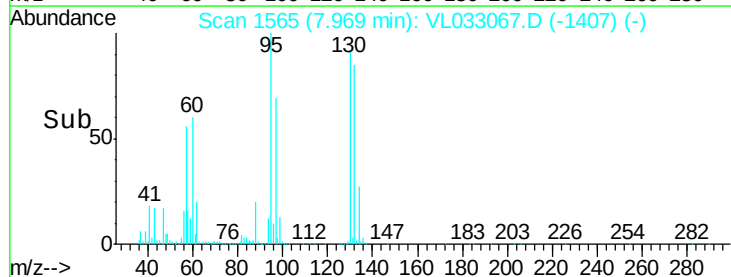
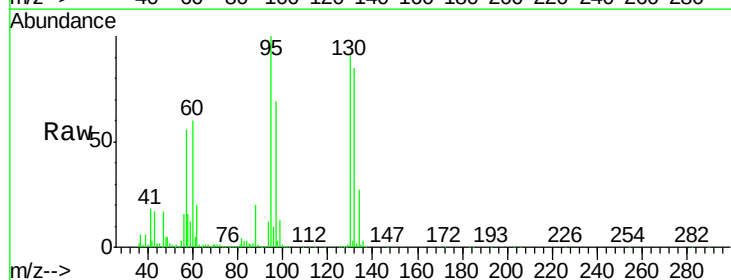
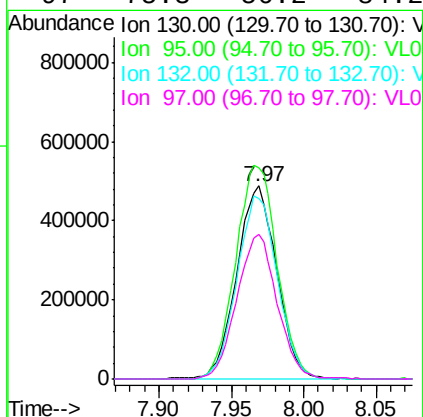
Manual Integrations
APPROVED

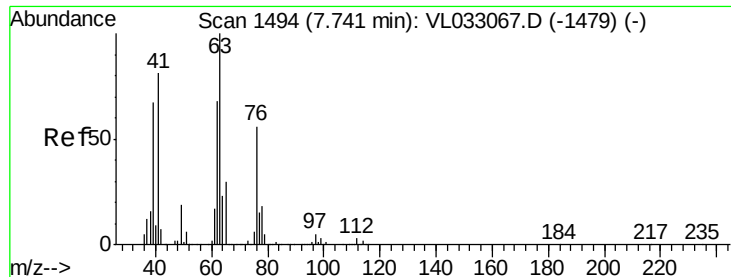
MMDadoda
1/8/2019 12:02:06 AM



#38
Trichloroethene
Concen: 9.335 ppbv
RT: 7.97 min Scan# 1565
Delta R.T. 0.01 min
Lab File: VL033067.D
Acq: 4 Jan 2019 13:12

Tgt Ion	Ratio	Lower	Upper
130	100		
95	109.9	88.6	132.8
132	93.6	74.2	111.2
97	75.3	56.2	84.2





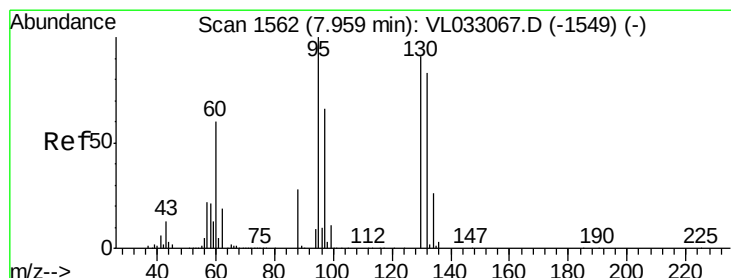
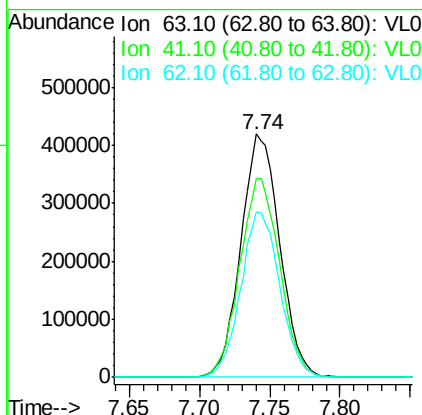
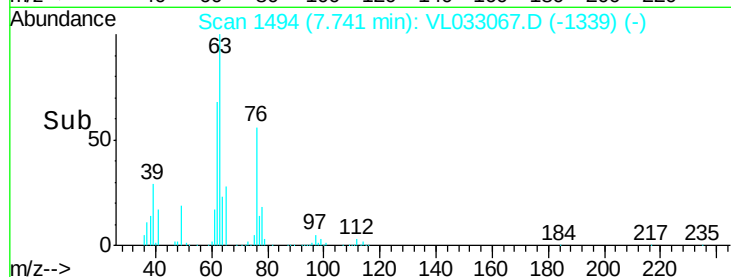
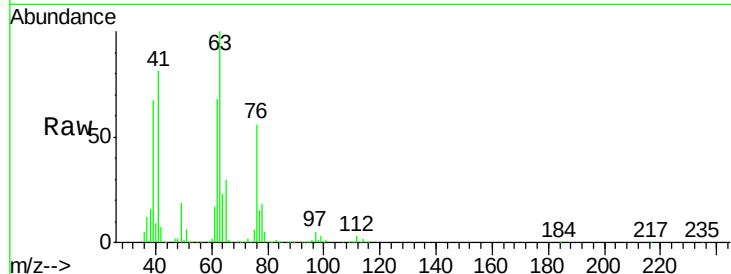
#39
 1,2-Dichloropropane
 Concen: 9.112 ppbv
 RT: 7.74 min Scan# 1494
 Delta R.T. -0.00 min
 Lab File: VL033067.D
 Acq: 4 Jan 2019 13:12

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDICCC010

Tot Ion	Ratio	Lower	Upper
63	100		
41	81.4	61.9	92.9
62	68.1	55.8	83.6

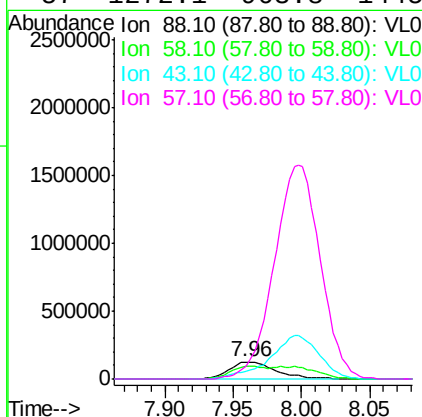
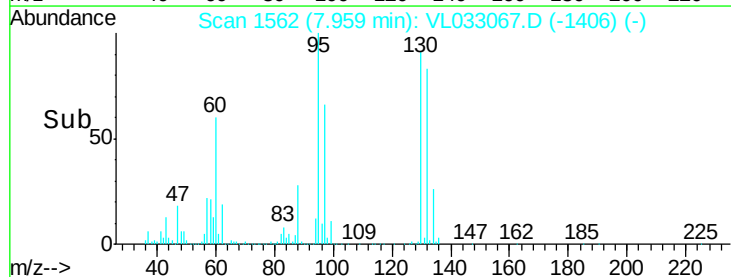
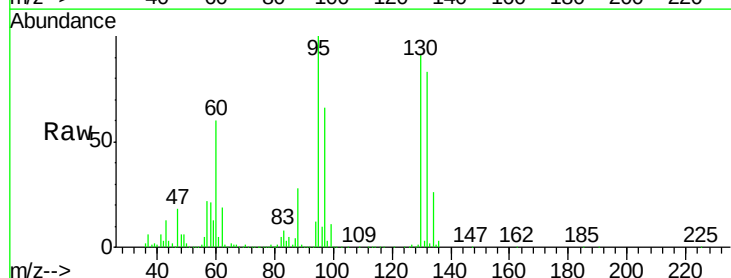
Manual Integrations
 APPROVED

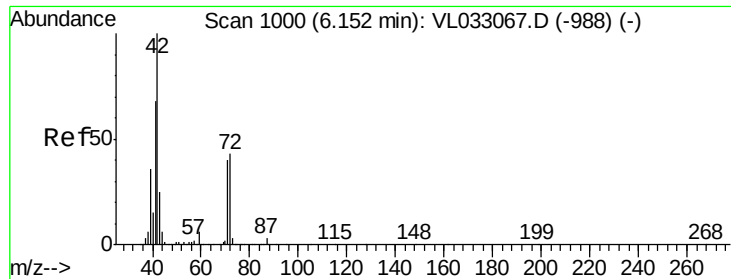
MMDadoda
 1/8/2019 12:02:06 AM



#40
 1,4-Dioxane
 Concen: 8.605 ppbv
 RT: 7.96 min Scan# 1562
 Delta R.T. 0.00 min
 Lab File: VL033067.D
 Acq: 4 Jan 2019 13:12

Tgt Ion	Ratio	Lower	Upper
88	100		
58	129.6	101.9	152.9
43	277.3	212.6	319.0
57	1272.1	963.8	1445.6





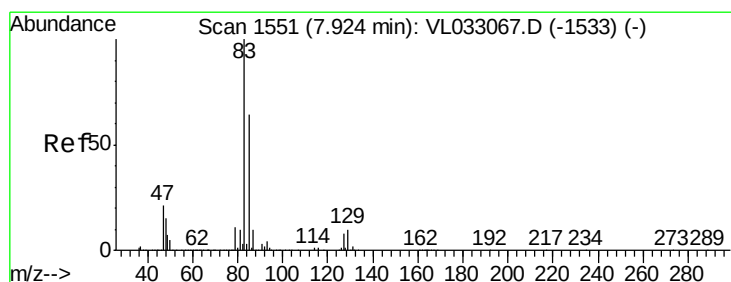
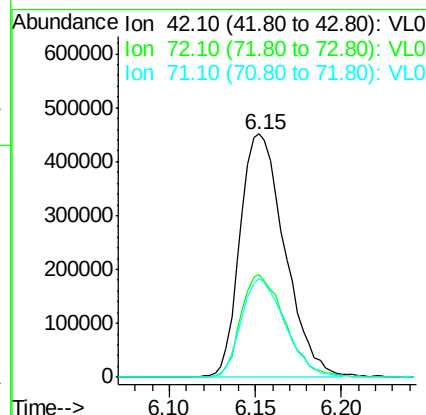
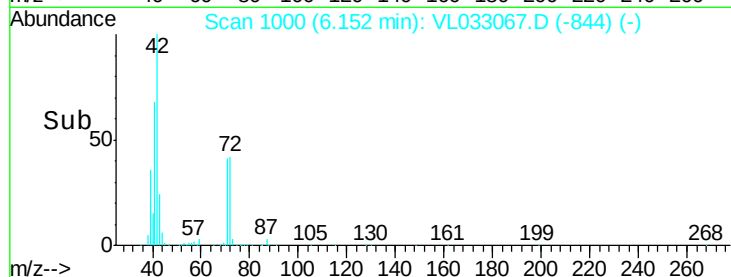
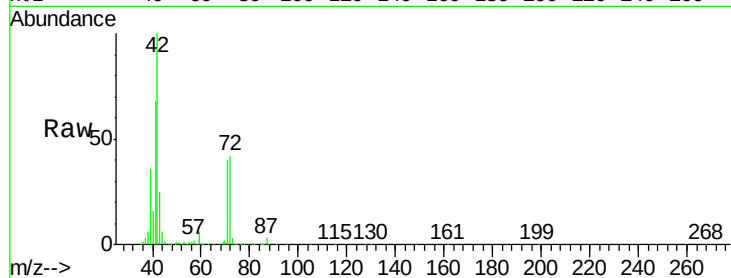
#41
Tetrahydrofuran
Concen: 9.520 ppbv
RT: 6.15 min Scan# 1000
Delta R.T. 0.00 min
Lab File: VL033067.D
Acq: 4 Jan 2019 13:12

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion	Ratio	Lower	Upper
42	100		
72	42.1	32.9	49.3
71	40.0	31.8	47.6

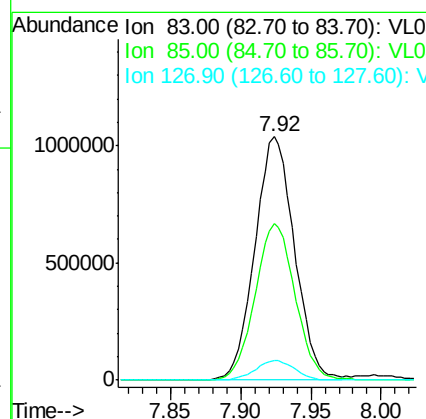
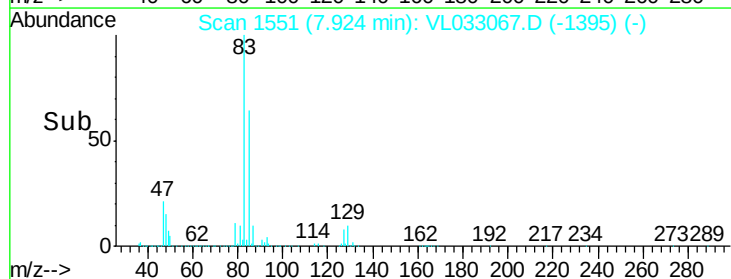
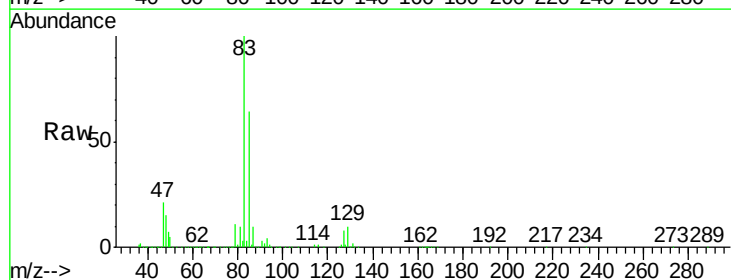
Manual Integrations
APPROVED

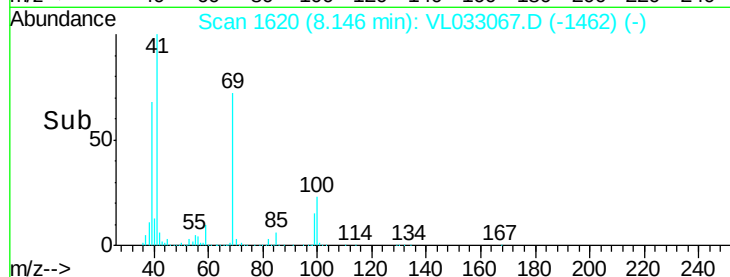
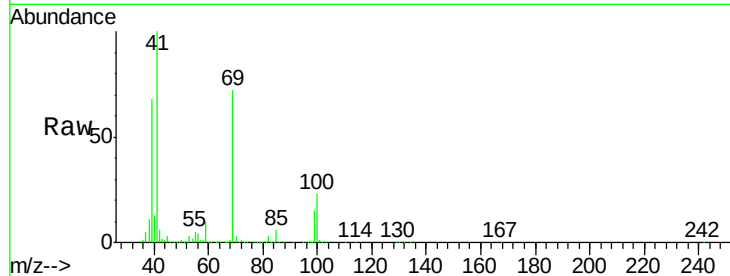
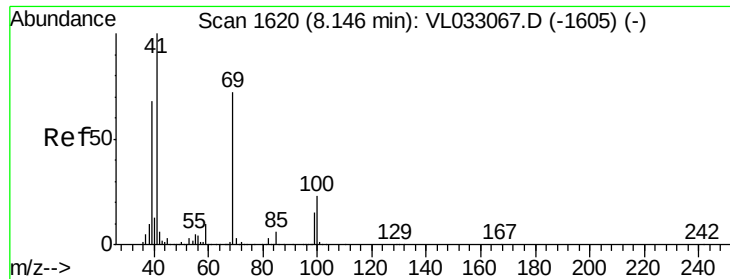
MMDadoda
1/8/2019 12:02:06 AM



#42
Bromodichloromethane
Concen: 8.759 ppbv
RT: 7.92 min Scan# 1551
Delta R.T. 0.00 min
Lab File: VL033067.D
Acq: 4 Jan 2019 13:12

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.5	51.0	76.4
127	7.9	6.5	9.7





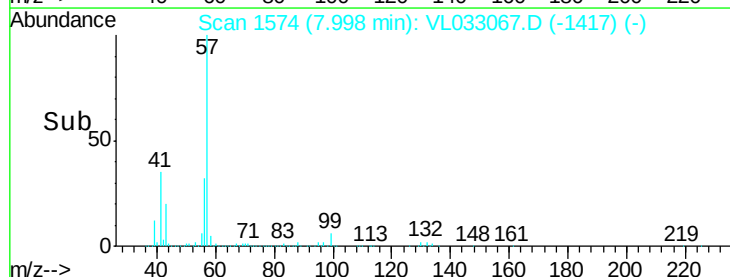
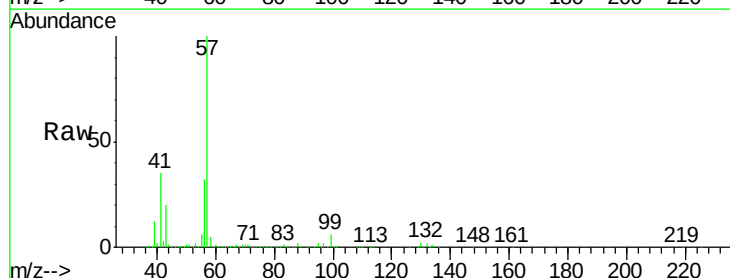
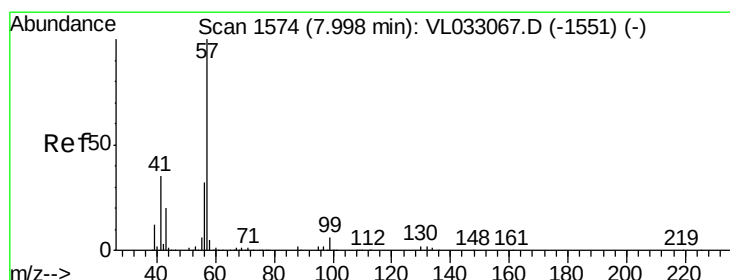
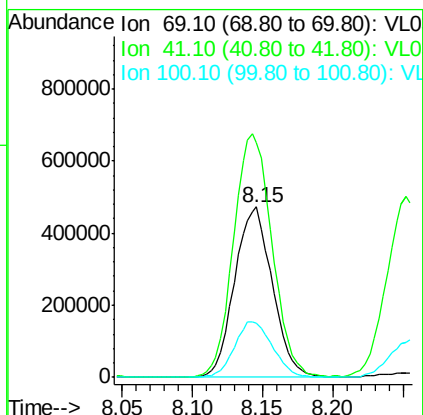
#43
Methyl Methacrylate
Concen: 10.032 ppbv
RT: 8.15 min Scan# 1620
Delta R.T. 0.01 min
Lab File: VL033067.D
Acq: 4 Jan 2019 13:12

Tot Ion	Ratio	Lower	Upper
69	100		
41	145.4	114.0	171.0
100	32.9	26.3	39.5

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

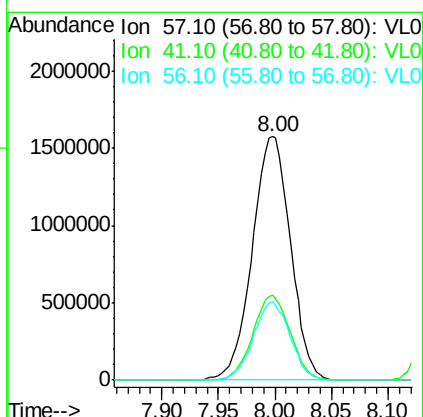
Manual Integrations
APPROVED

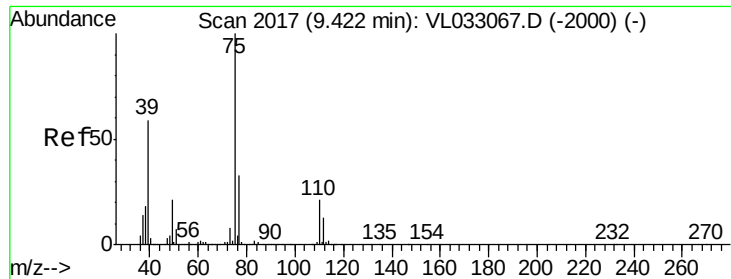
MMDadoda
1/8/2019 12:02:06 AM



#44
2,2,4-Trimethylpentane
Concen: 8.786 ppbv
RT: 8.00 min Scan# 1574
Delta R.T. 0.00 min
Lab File: VL033067.D
Acq: 4 Jan 2019 13:12

Tgt Ion	Ratio	Lower	Upper
57	100		
41	33.9	26.2	39.2
56	30.9	24.9	37.3





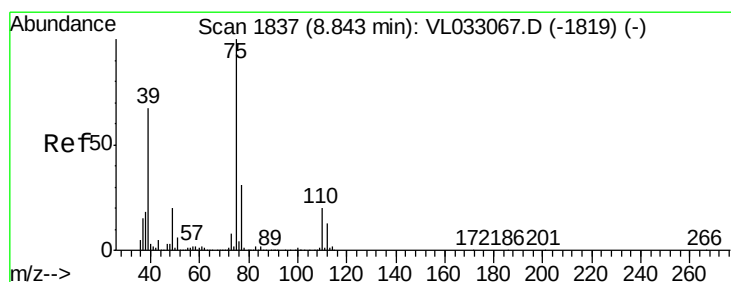
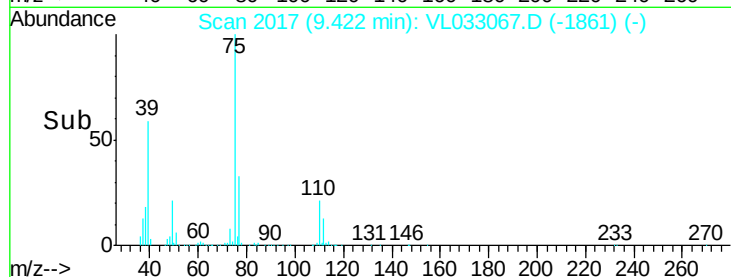
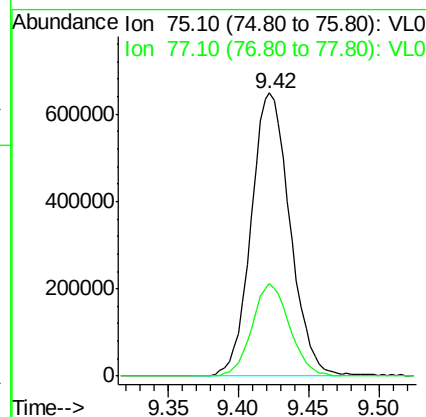
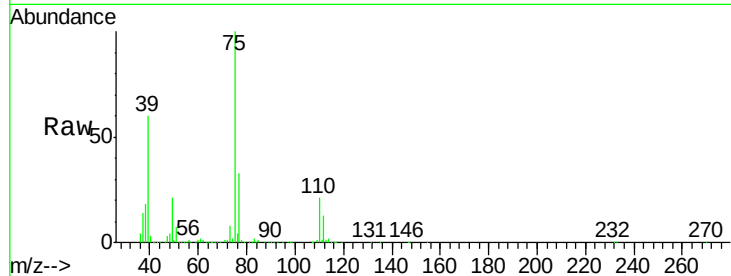
#45
t-1,3-Dichloropropene
Concen: 10.194 ppbv
RT: 9.42 min Scan# 2017
Delta R.T. 0.00 min
Lab File: VL033067.D
Acq: 4 Jan 2019 13:12

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion: 75 Resp: 1247211
Ion Ratio Lower Upper
75 100
77 32.9 24.8 37.2

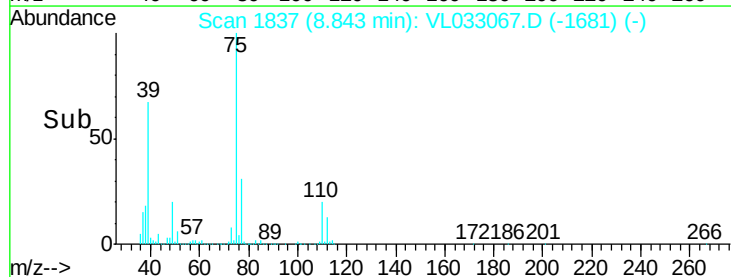
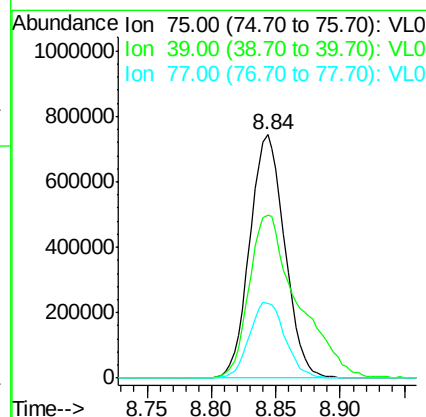
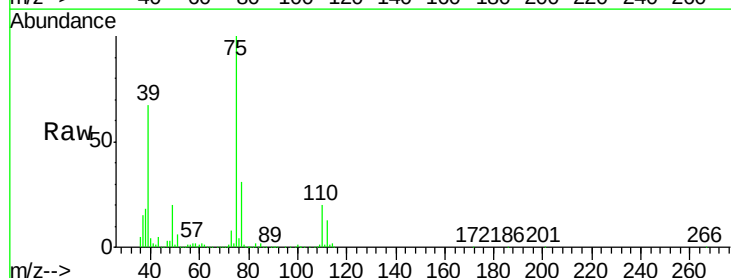
Manual Integrations
APPROVED

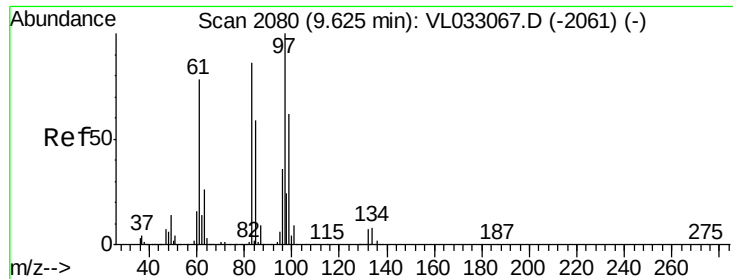
MMDadoda
1/8/2019 12:02:06 AM



#46
cis-1,3-Dichloropropene
Concen: 10.562 ppbv
RT: 8.84 min Scan# 1837
Delta R.T. 0.00 min
Lab File: VL033067.D
Acq: 4 Jan 2019 13:12

Tgt Ion: 75 Resp: 1404819
Ion Ratio Lower Upper
75 100
39 66.8 51.3 76.9
77 30.5 25.5 38.3





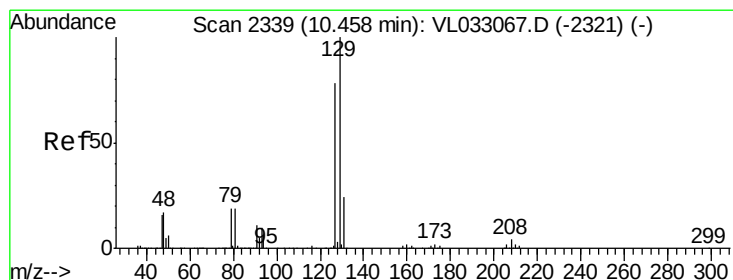
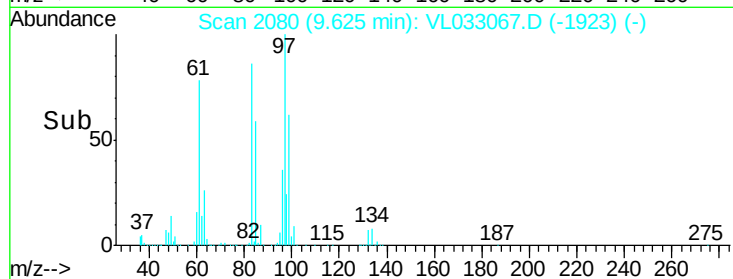
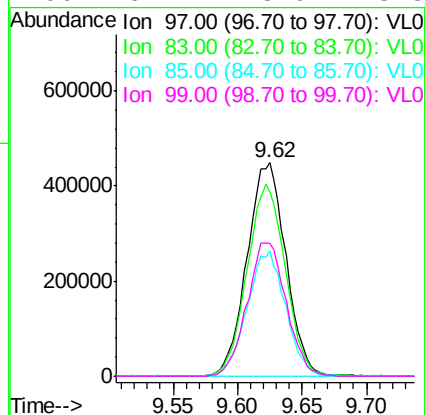
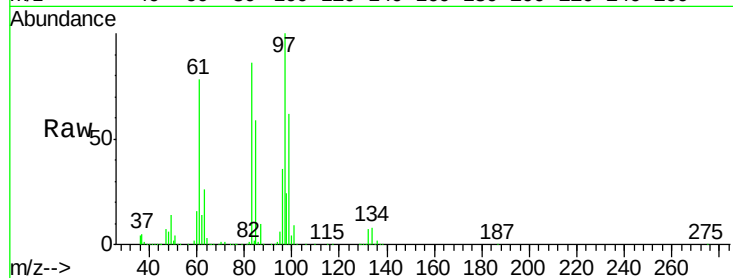
#47
 1,1,2-Trichloroethane
 Concen: 8.773 ppbv
 RT: 9.62 min Scan# 2080
 Delta R.T. 0.00 min
 Lab File: VL033067.D
 Acq: 4 Jan 2019 13:12

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion	Ratio	Lower	Upper
97	100		
83	86.1	69.4	104.2
85	58.7	44.2	66.2
99	62.1	48.9	73.3

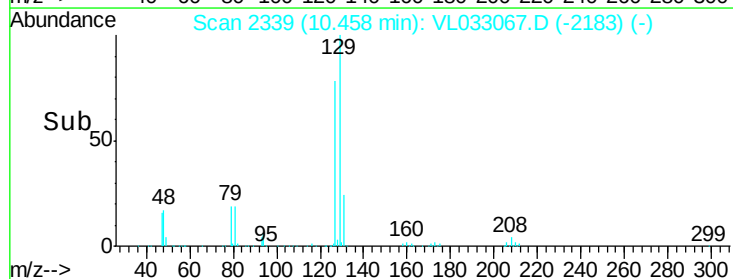
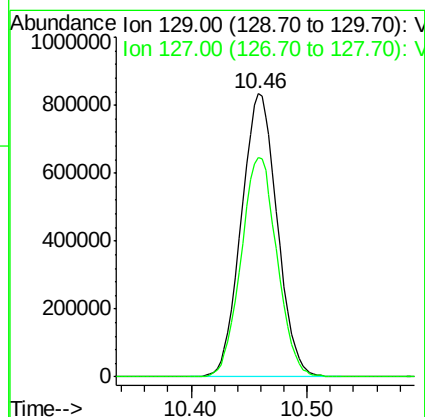
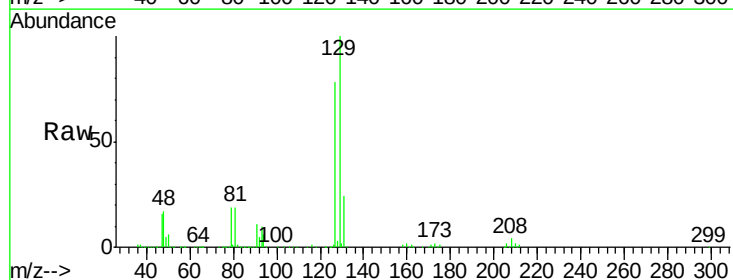
Manual Integrations
 APPROVED

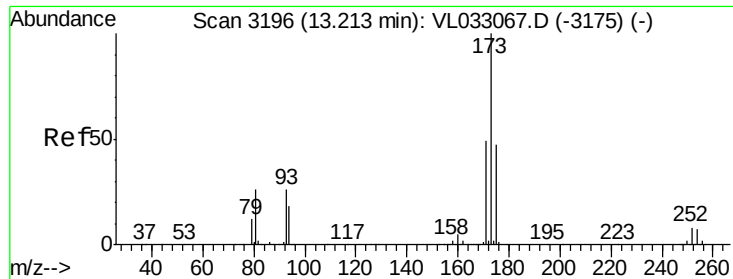
MMDadoda
 1/8/2019 12:02:06 AM



#48
 Dibromochloromethane
 Concen: 10.060 ppbv
 RT: 10.46 min Scan# 2339
 Delta R.T. 0.00 min
 Lab File: VL033067.D
 Acq: 4 Jan 2019 13:12

Tgt Ion	Ratio	Lower	Upper
129	100		
127	77.9	39.1	117.3





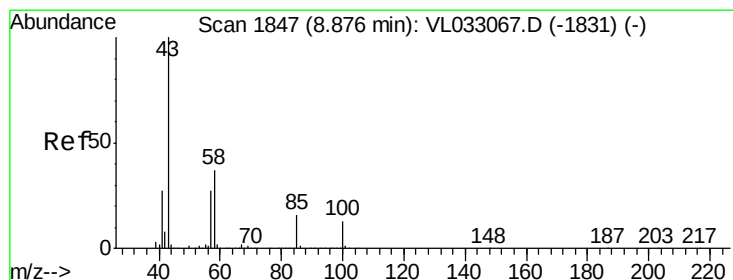
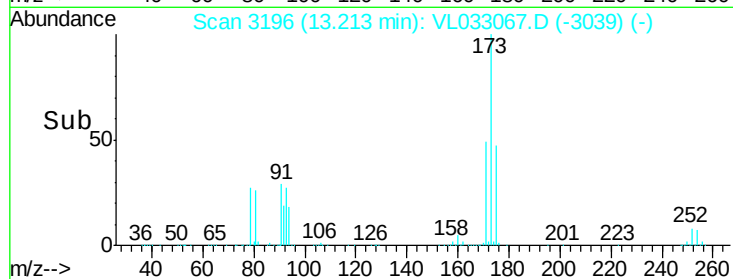
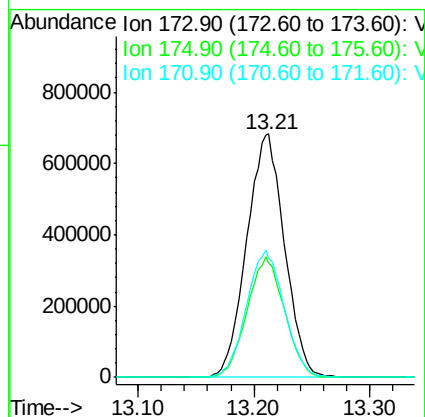
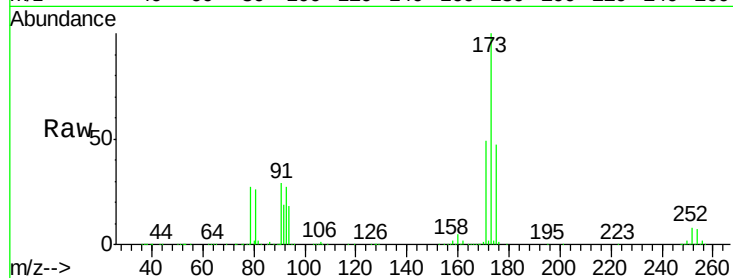
#49
Bromoform
Concen: 9.410 ppbv
RT: 13.21 min Scan# 3196
Delta R.T. 0.00 min
Lab File: VL033067.D
Acq: 4 Jan 2019 13:12

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion:173 Resp: 1546815
Ion Ratio Lower Upper
173 100
175 49.2 39.4 59.2
171 52.3 42.1 63.1

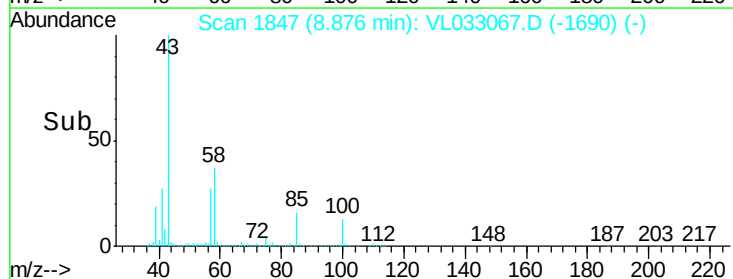
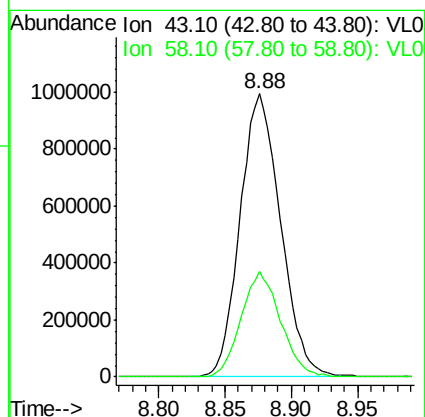
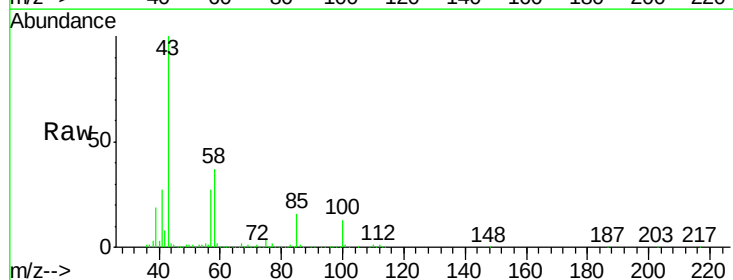
Manual Integrations
APPROVED

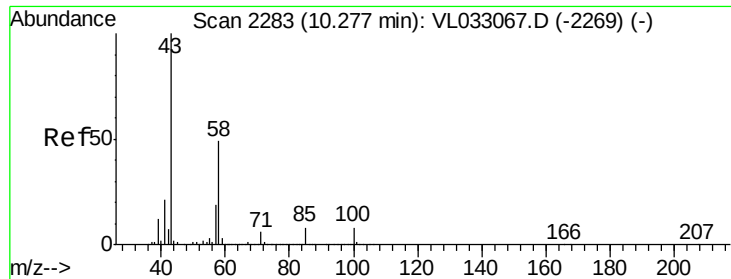
MMDadoda
1/8/2019 12:02:06 AM



#50
4-Methyl-2-Pentanone
Concen: 9.331 ppbv
RT: 8.88 min Scan# 1847
Delta R.T. 0.00 min
Lab File: VL033067.D
Acq: 4 Jan 2019 13:12

Tgt Ion: 43 Resp: 2113779
Ion Ratio Lower Upper
43 100
58 36.2 28.9 43.3





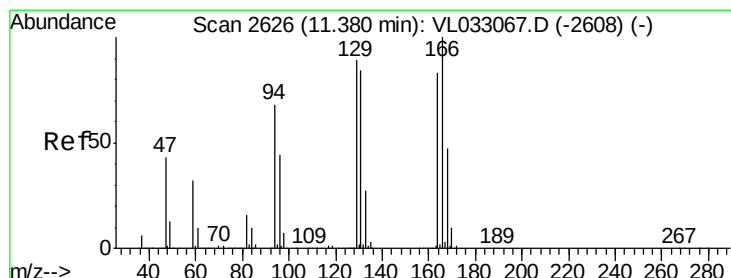
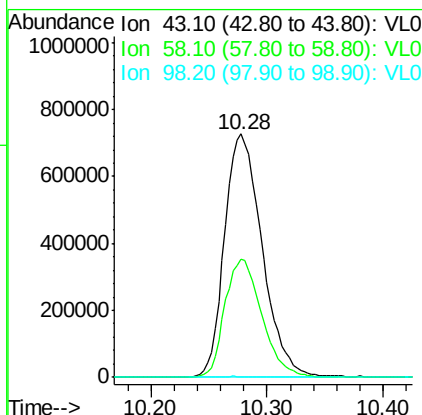
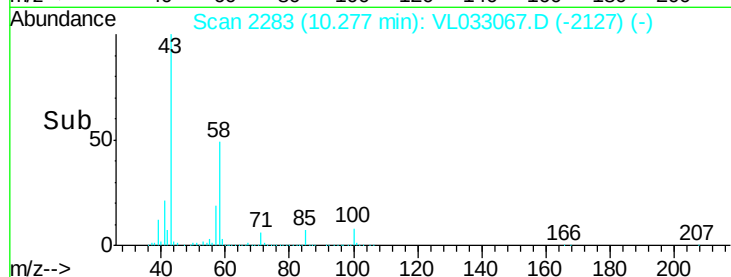
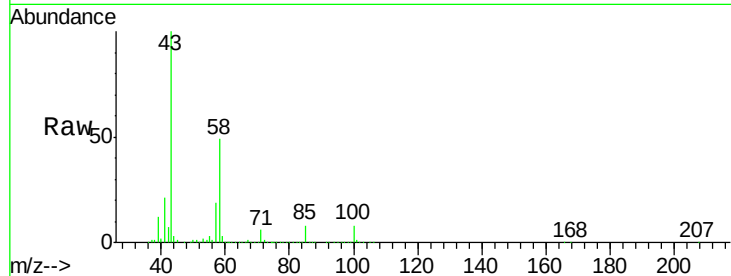
#51
2-Hexanone
Concen: 10.651 ppbv
RT: 10.28 min Scan# 2283
Delta R.T. 0.00 min
Lab File: VL033067.D
Acq: 4 Jan 2019 13:12

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion: 43 Resp: 1630156
Ion Ratio Lower Upper
43 100
58 47.8 39.0 58.6
98 0.5 0.4 0.6

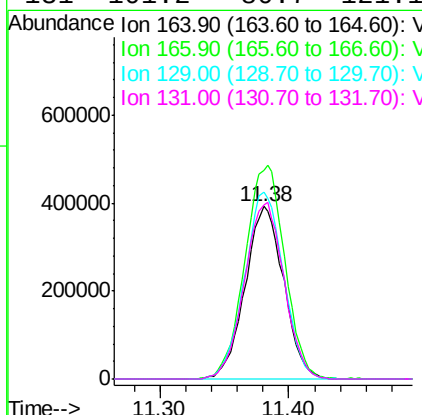
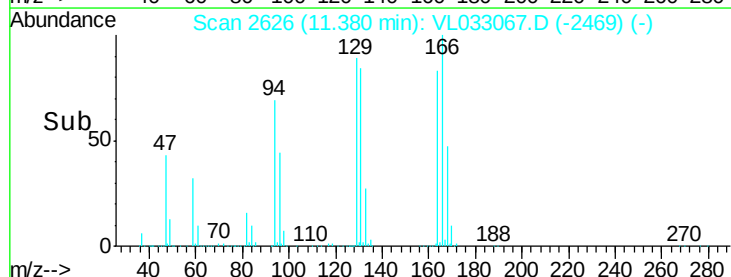
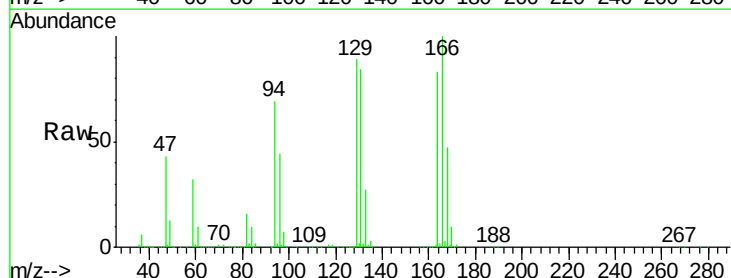
Manual Integrations
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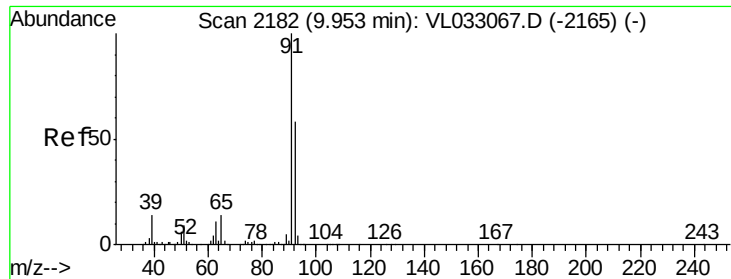
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#52
Tetrachloroethene
Concen: 9.501 ppbv
RT: 11.38 min Scan# 2626
Delta R.T. 0.00 min
Lab File: VL033067.D
Acq: 4 Jan 2019 13:12

Tgt Ion: 164 Resp: 816629
Ion Ratio Lower Upper
164 100
166 121.2 100.8 151.2
129 108.1 84.6 126.8
131 101.2 80.7 121.1





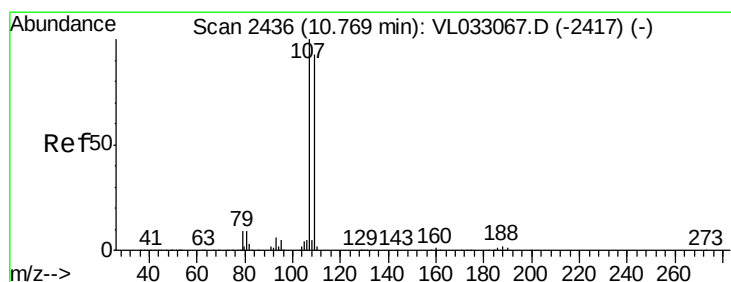
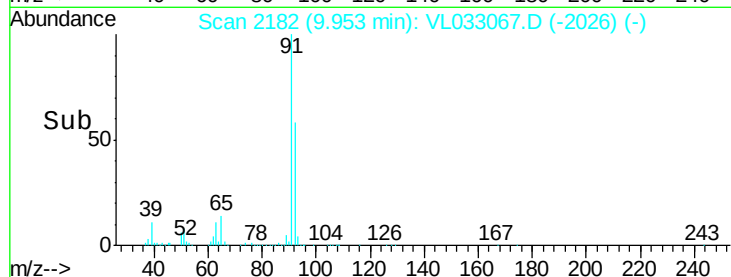
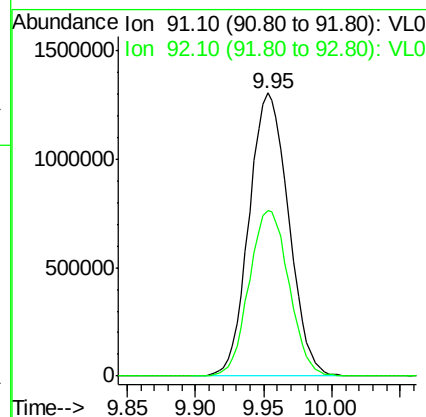
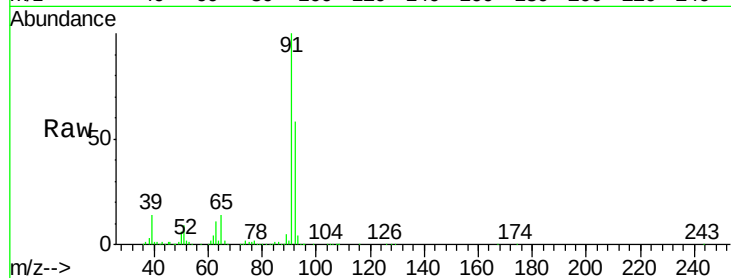
#53
Toluene
Concen: 10.732 ppbv
RT: 9.95 min Scan# 2182
Delta R.T. 0.00 min
Lab File: VL033067.D
Acq: 4 Jan 2019 13:12

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion: 91 Resp: 2623165
Ion Ratio Lower Upper
91 100
92 59.1 47.7 71.5

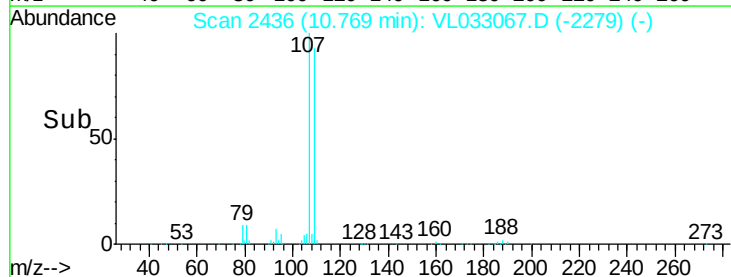
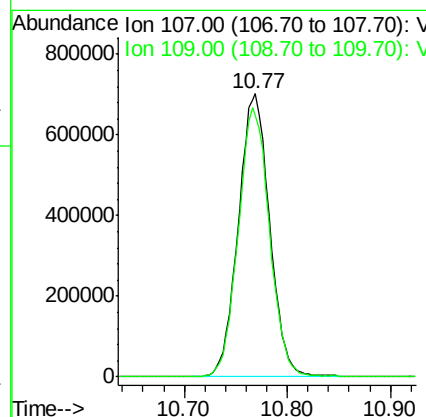
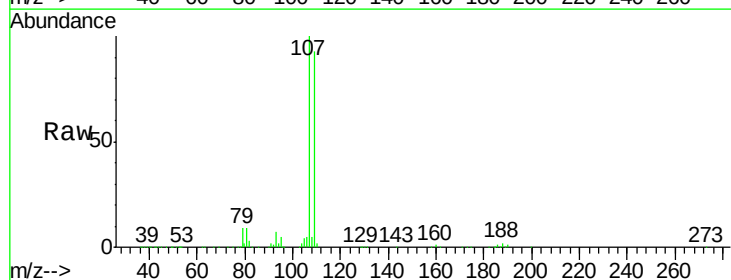
Manual Integrations
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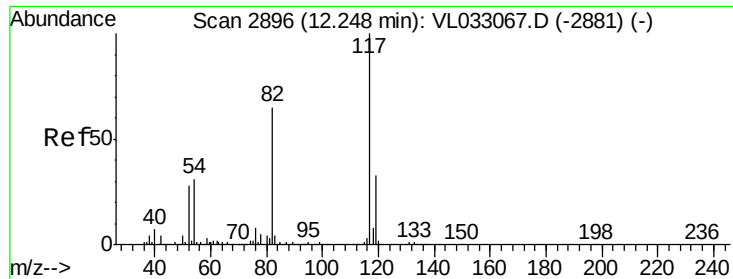
MMDadoda
1/8/2019 12:02:06 AM



#54
1,2-Dibromoethane
Concen: 9.498 ppbv
RT: 10.77 min Scan# 2436
Delta R.T. 0.00 min
Lab File: VL033067.D
Acq: 4 Jan 2019 13:12

Tgt Ion: 107 Resp: 1483752
Ion Ratio Lower Upper
107 100
109 92.6 74.9 112.3





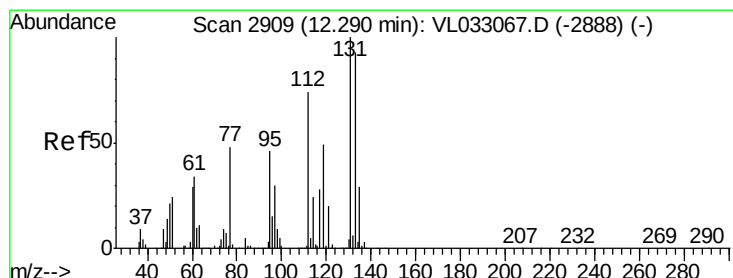
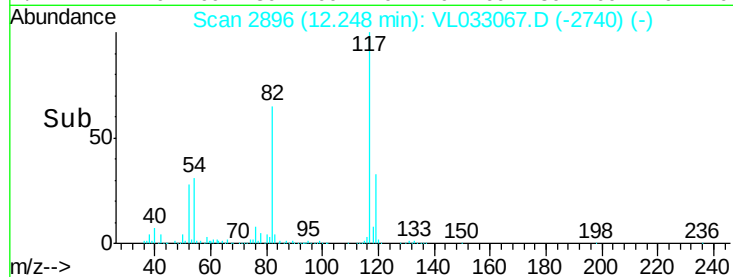
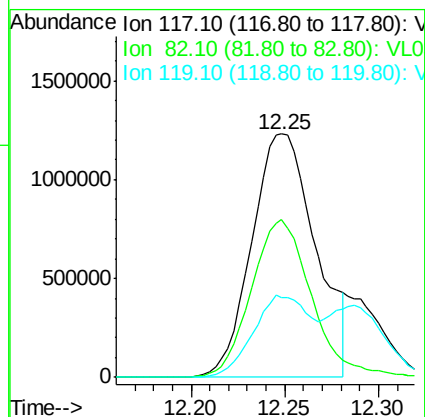
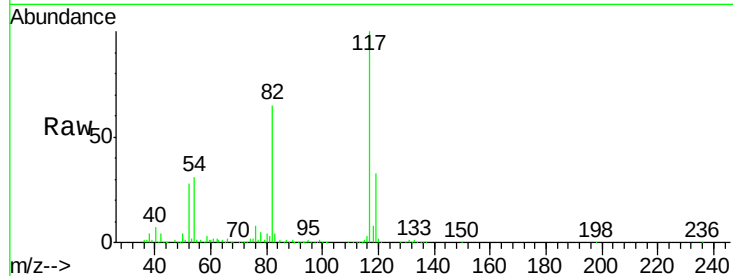
#55
Chlorobenzene-d5
Concen: 10.000 ppbv m
RT: 12.25 min Scan# 2896
Delta R.T. 0.00 min
Lab File: VL033067.D
Acq: 4 Jan 2019 13:12

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion:117 Resp: 2907554
Ion Ratio Lower Upper
117 100
82 61.5 48.9 73.3
119 32.0 24.6 37.0

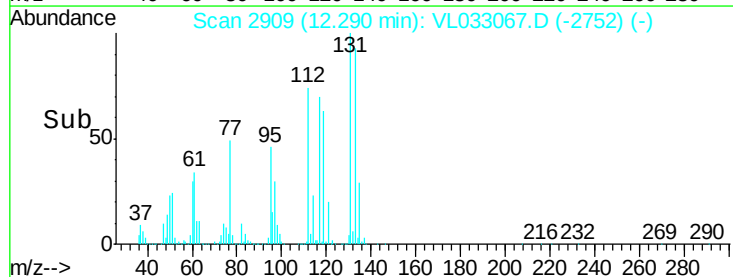
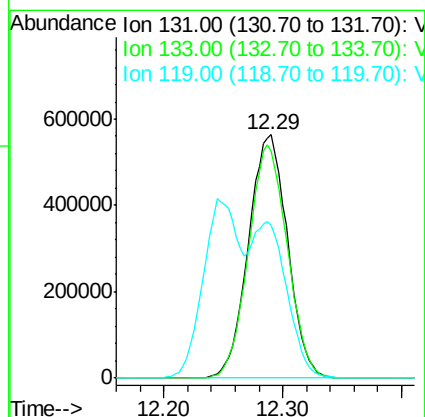
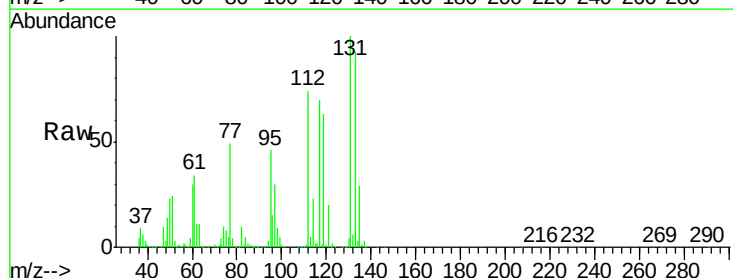
Manual Integrations
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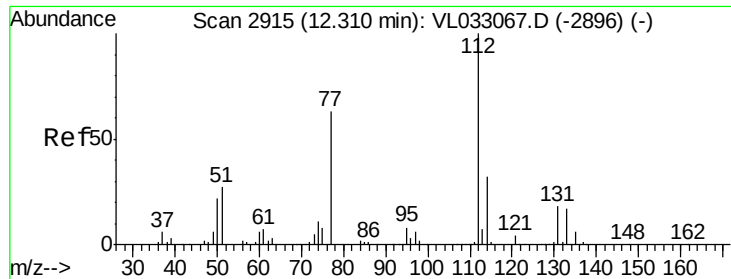
MMDadoda
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#56
1,1,1,2-Tetrachloroethane
Concen: 8.695 ppbv
RT: 12.29 min Scan# 2909
Delta R.T. 0.00 min
Lab File: VL033067.D
Acq: 4 Jan 2019 13:12

Tgt Ion:131 Resp: 1279453
Ion Ratio Lower Upper
131 100
133 95.4 76.0 114.0
119 60.5 44.2 66.2





#57

Chlorobenzene

Concen: 8.756 ppbv

RT: 12.31 min Scan# 2915

Delta R.T. 0.00 min

Lab File: VL033067.D

Acq: 4 Jan 2019 13:12

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion:112 Resp: 2064218

Ion Ratio Lower Upper

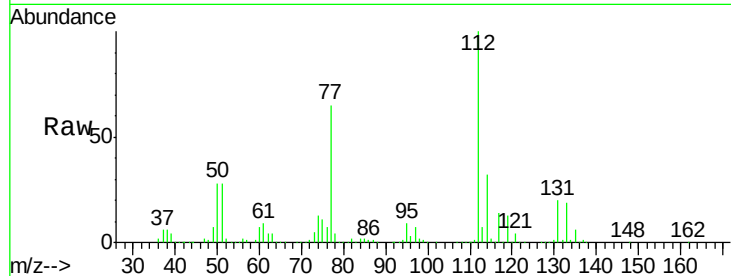
112 100

77 64.7 53.4 80.0

114 32.2 30.0 36.6

Manual Integrations
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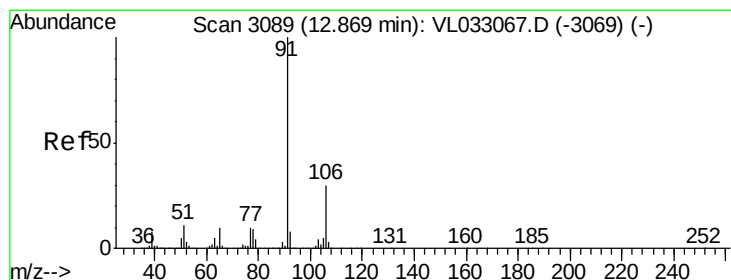
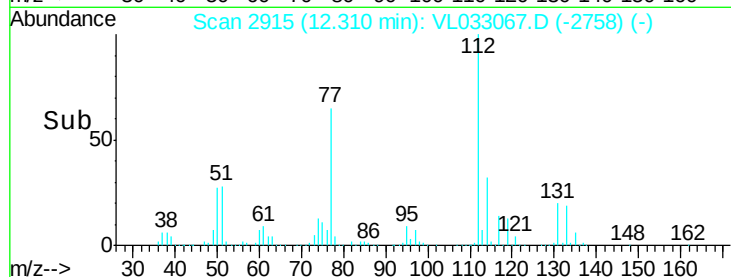
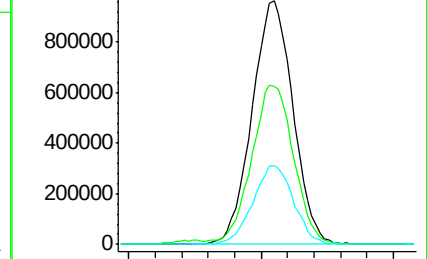
MMDadoda
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Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 10.103 ppbv

RT: 12.87 min Scan# 3089

Delta R.T. -0.00 min

Lab File: VL033067.D

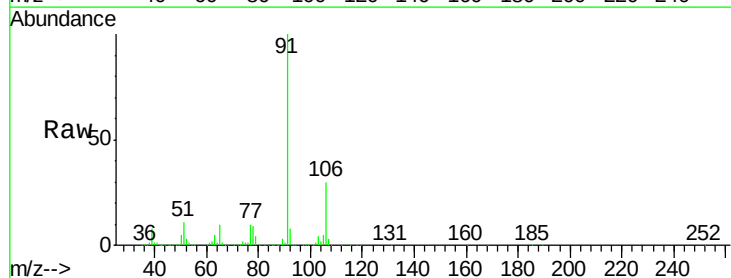
Acq: 4 Jan 2019 13:12

Tgt Ion: 91 Resp: 3613568

Ion Ratio Lower Upper

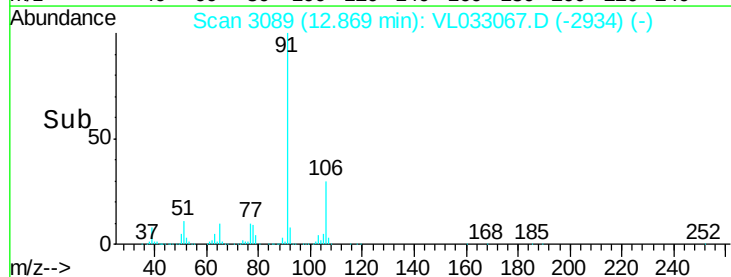
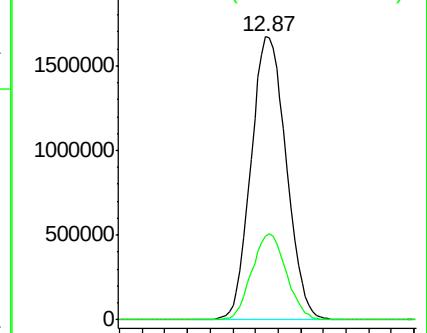
91 100

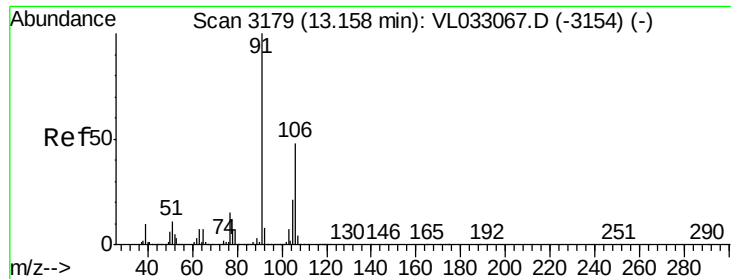
106 29.7 24.3 36.5



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





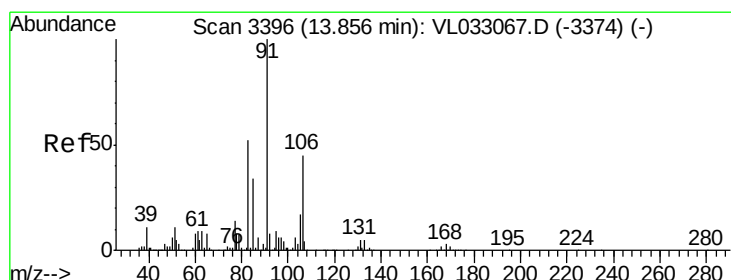
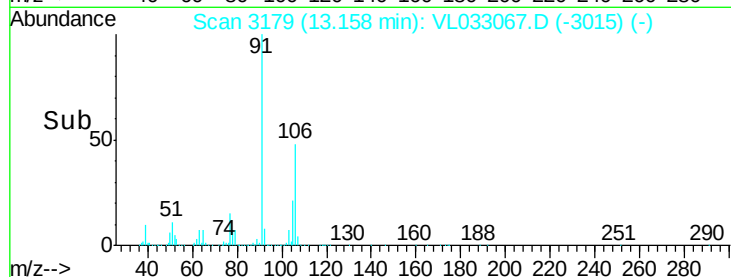
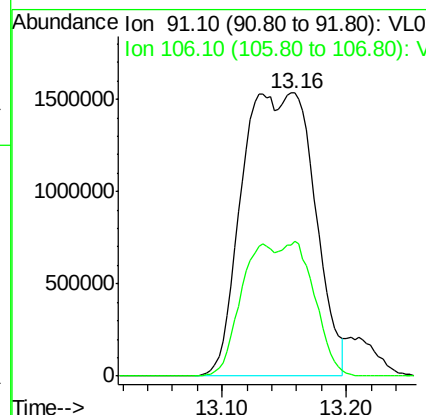
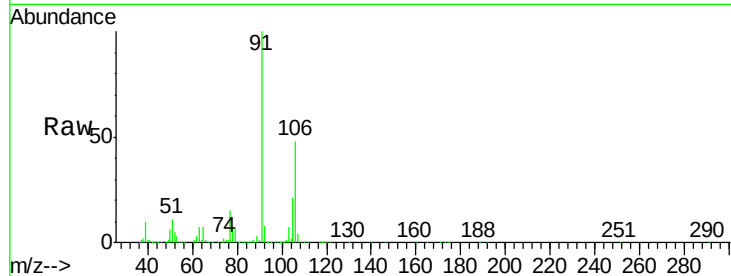
#59
m/p-Xylene
Concen: 18.712 ppbv m
RT: 13.16 min Scan# 3179
Delta R.T. 0.03 min
Lab File: VL033067.D
Acq: 4 Jan 2019 13:12

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion: 91 Resp: 6215657
Ion Ratio Lower Upper
91 100
106 0.0 0.0 0.0

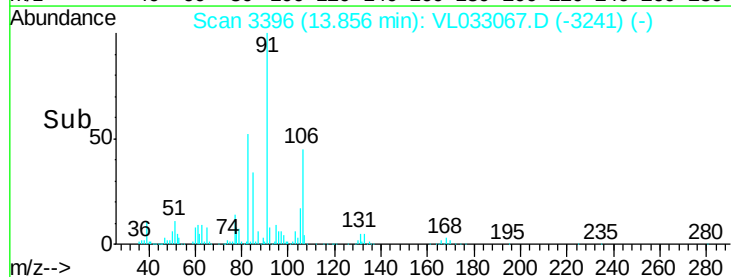
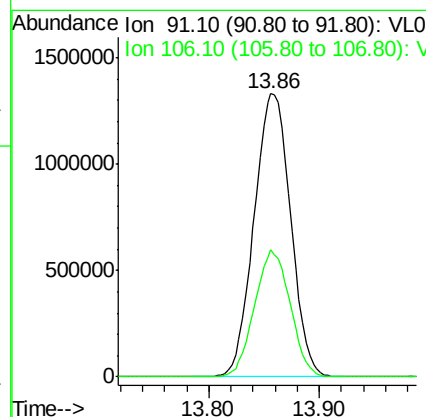
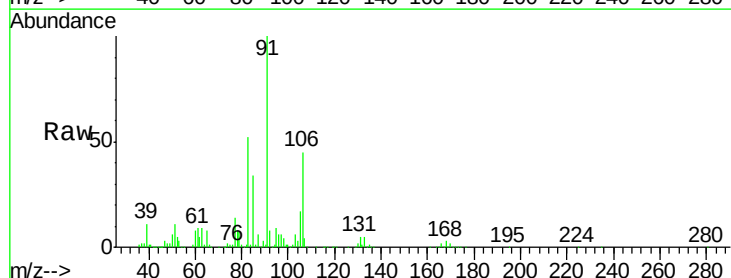
Manual Integrations
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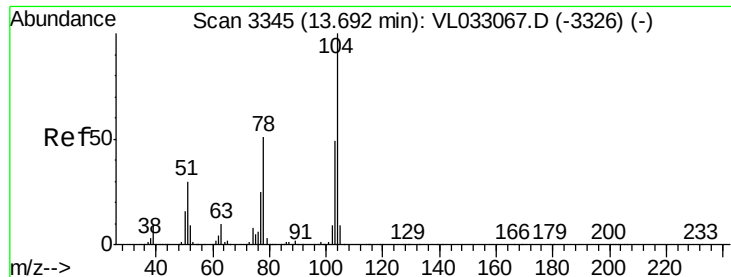
MMDadoda
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#60
o-Xylene
Concen: 9.438 ppbv
RT: 13.86 min Scan# 3396
Delta R.T. -0.00 min
Lab File: VL033067.D
Acq: 4 Jan 2019 13:12

Tgt Ion: 91 Resp: 3064652
Ion Ratio Lower Upper
91 100
106 43.7 22.1 66.5





#61

Stvrene

Concen: 10.678 ppbv

RT: 13.69 min Scan# 3345

Delta R.T. 0.00 min

Lab File: VL033067.D

Acq: 4 Jan 2019 13:12

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion:104 Resp: 2236033

Ion Ratio Lower Upper

104 100

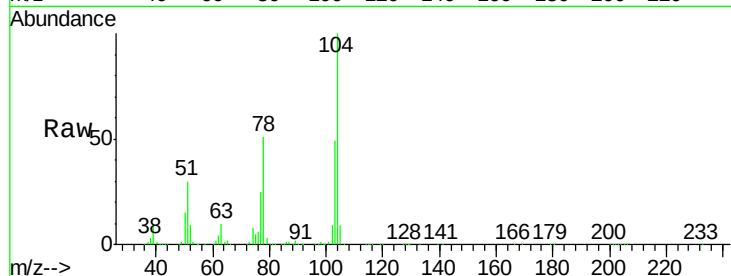
78 53.1 41.6 62.4

103 47.7 38.1 57.1

Manual Integrations
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MMDadoda

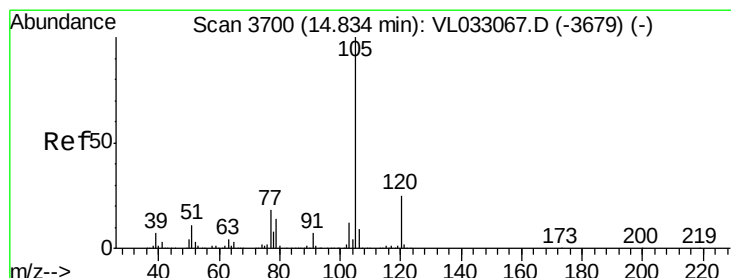
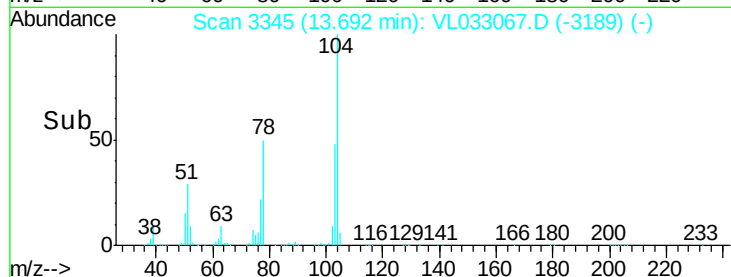
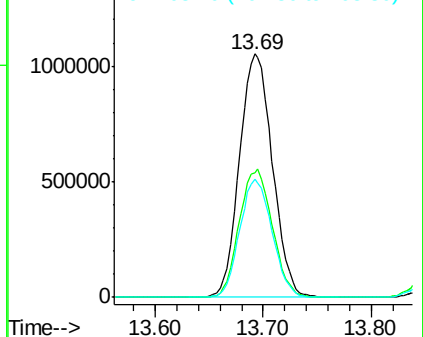
1/8/2019 12:02:06 AM



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): V

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 9.125 ppbv

RT: 14.83 min Scan# 3700

Delta R.T. 0.00 min

Lab File: VL033067.D

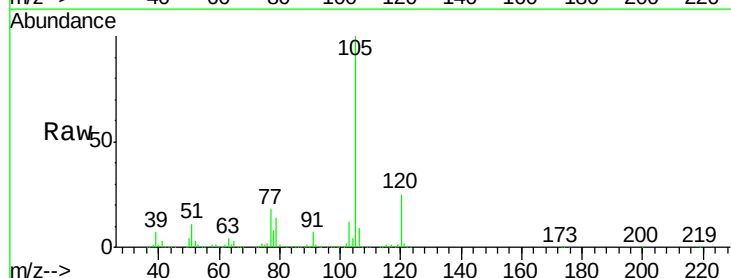
Acq: 4 Jan 2019 13:12

Tgt Ion:105 Resp: 4231908

Ion Ratio Lower Upper

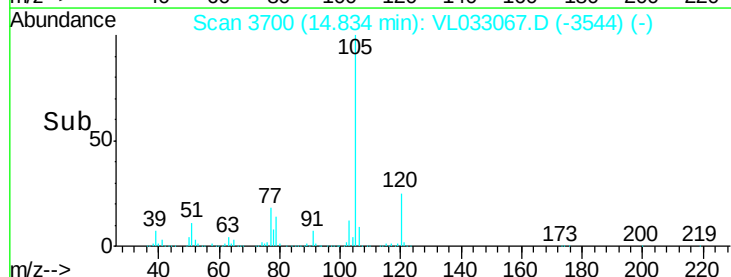
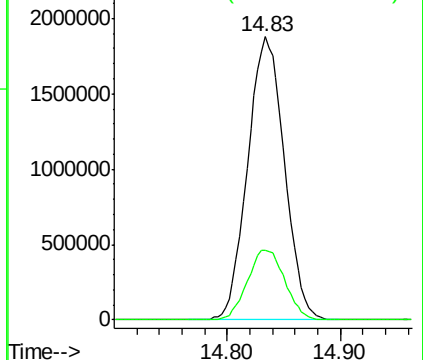
105 100

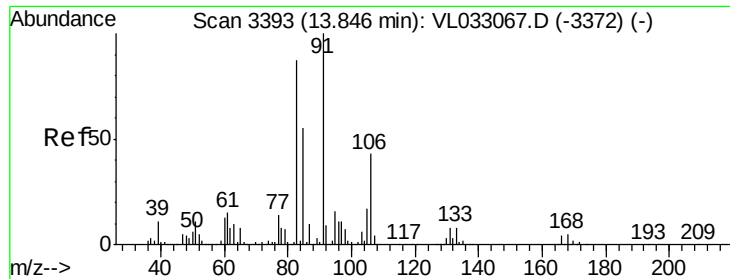
120 25.1 20.4 30.6



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





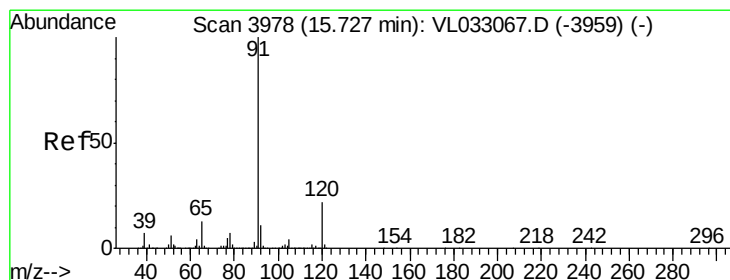
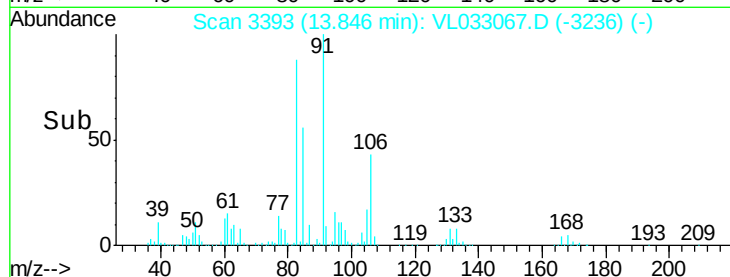
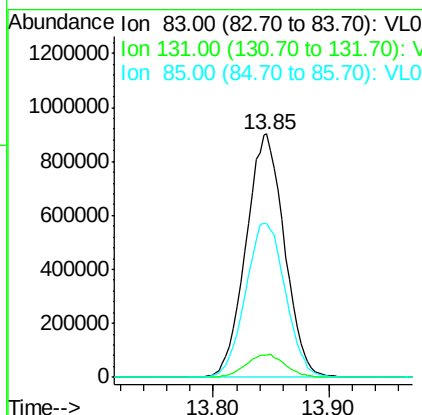
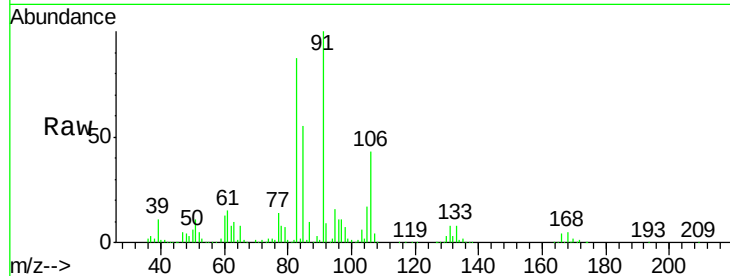
#63
 1,1,2,2-Tetrachloroethane
 Concen: 8.179 ppbv
 RT: 13.85 min Scan# 3393
 Delta R.T. 0.00 min
 Lab File: VL033067.D
 Acq: 4 Jan 2019 13:12

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion	83	Resp	2078848
Ion Ratio	100	Lower	Upper
83	100		
131	9.7	4.8	14.4
85	65.7	32.6	97.8

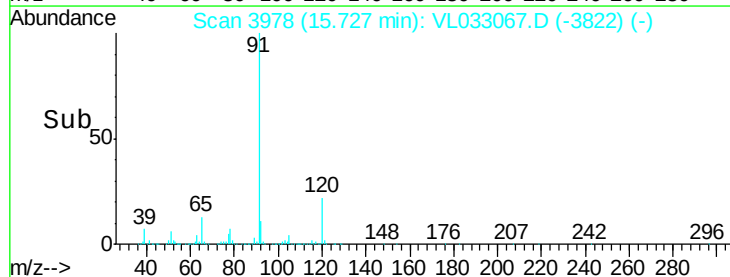
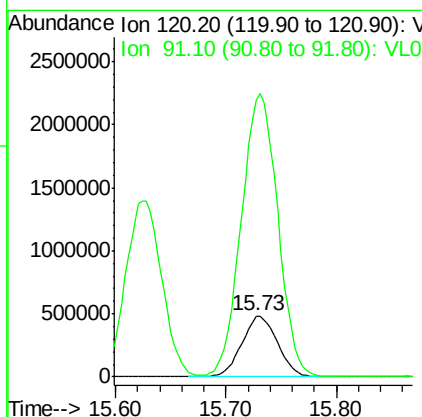
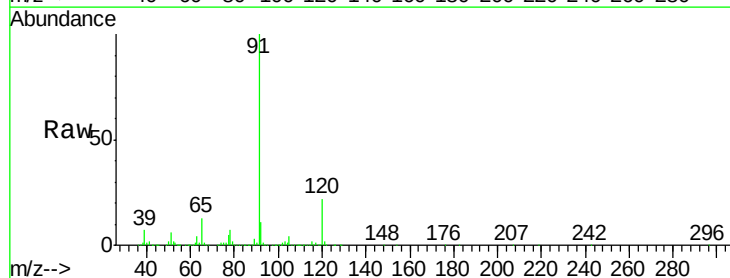
Manual Integrations
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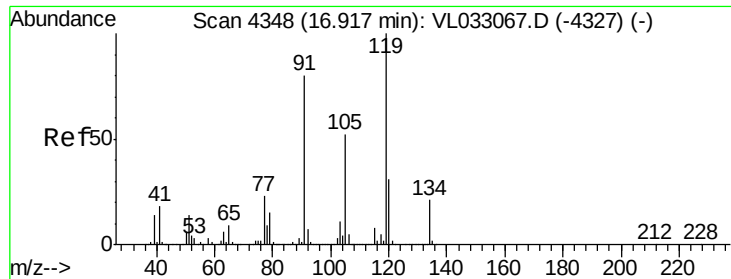
MMDadoda
 1/8/2019 12:02:06 AM



#64
 n-propylbenzene
 Concen: 9.471 ppbv
 RT: 15.73 min Scan# 3978
 Delta R.T. 0.00 min
 Lab File: VL033067.D
 Acq: 4 Jan 2019 13:12

Tgt Ion	120	Resp	1083212
Ion Ratio	100	Lower	Upper
120	100		
91	476.9	378.7	568.1





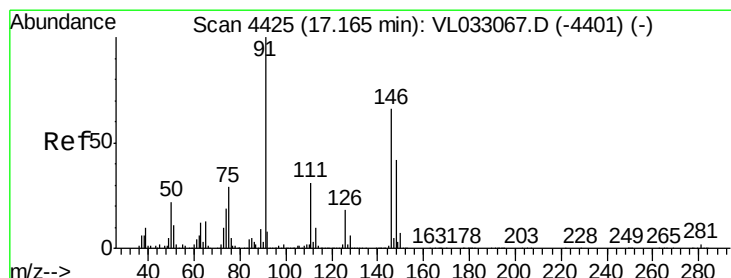
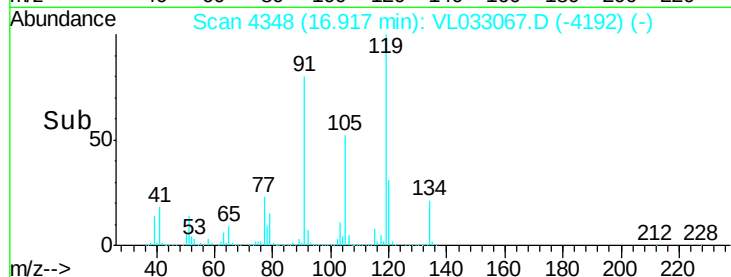
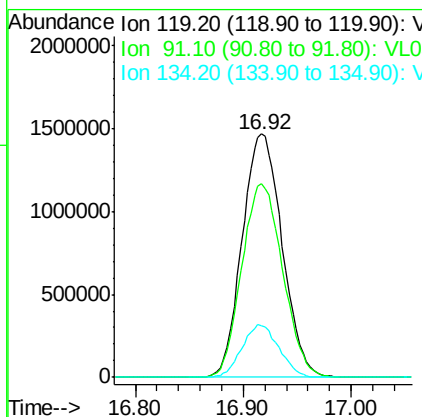
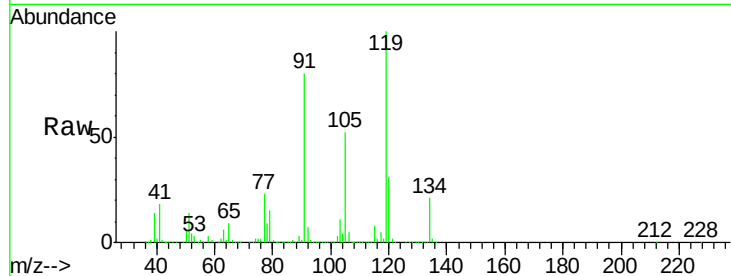
#65
 tert-Butylbenzene
 Concen: 9.123 ppbv
 RT: 16.92 min Scan# 4348
 Delta R.T. 0.00 min
 Lab File: VL033067.D
 Acq: 4 Jan 2019 13:12

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion: 119 Resp: 3766242
 Ion Ratio Lower Upper
 119 100
 91 81.8 64.6 97.0
 134 20.1 15.8 23.8

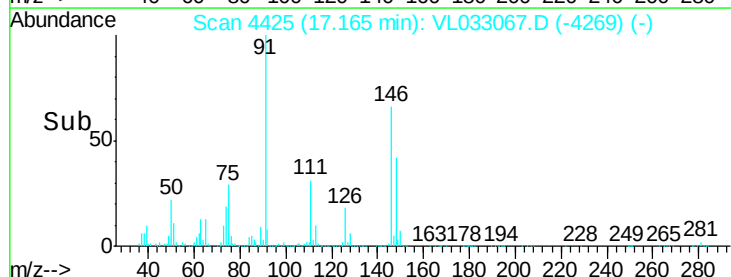
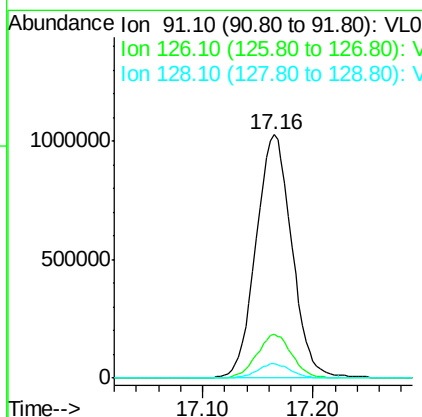
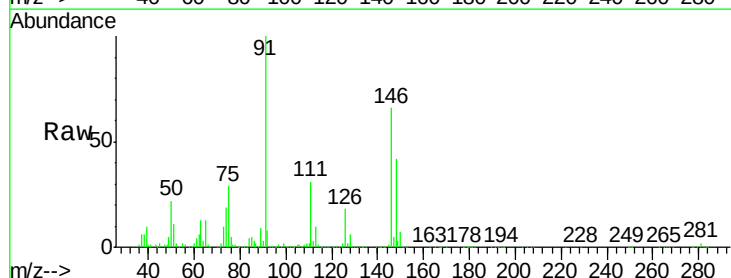
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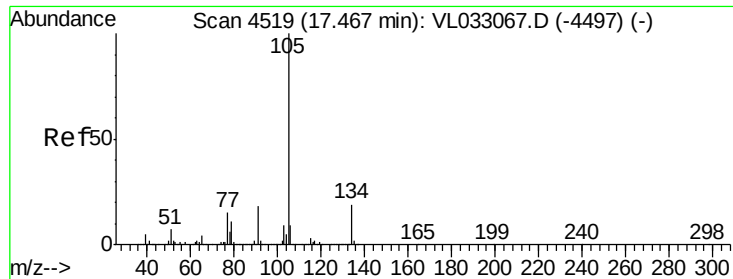
MMDadoda
 1/8/2019 12:02:06 AM



#66
 Benzyl Chloride
 Concen: 9.935 ppbv
 RT: 17.16 min Scan# 4425
 Delta R.T. 0.00 min
 Lab File: VL033067.D
 Acq: 4 Jan 2019 13:12

Tgt Ion: 91 Resp: 2305181
 Ion Ratio Lower Upper
 91 100
 126 17.8 14.4 21.6
 128 5.5 4.5 6.7





#67

sec-Butylbenzene

Concen: 9.233 ppbv

RT: 17.47 min Scan# 4519

Delta R.T. 0.00 min

Lab File: VL033067.D

Acq: 4 Jan 2019 13:12

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion:105 Resp: 5374497

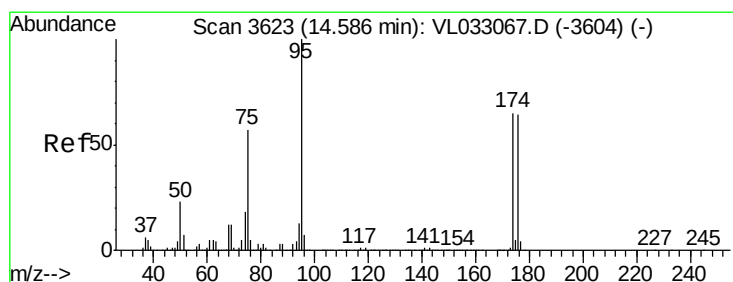
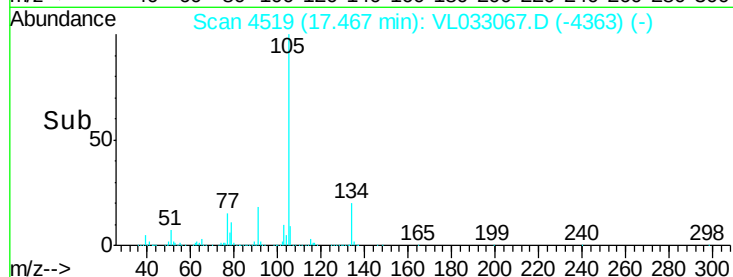
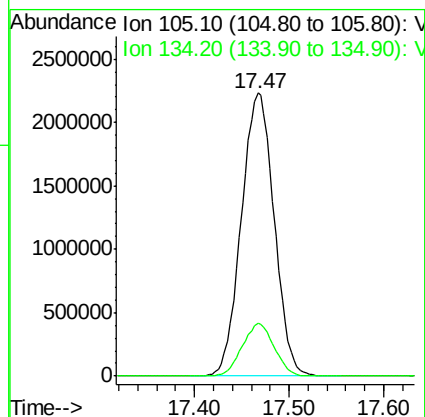
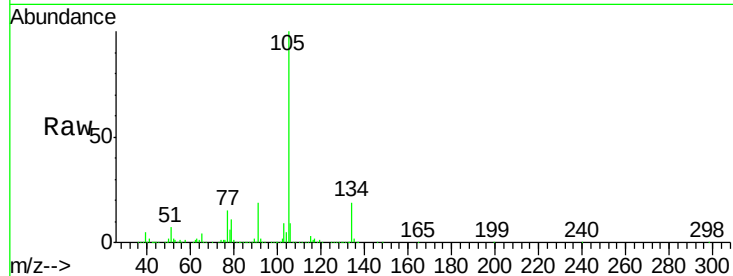
Ion Ratio Lower Upper

105 100

134 18.2 14.6 21.8

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#68

1-Bromo-4-Fluorobenzene

Concen: 9.955 ppbv

RT: 14.59 min Scan# 3623

Delta R.T. 0.00 min

Lab File: VL033067.D

Acq: 4 Jan 2019 13:12

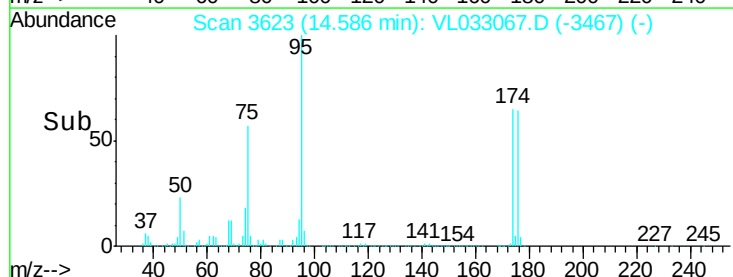
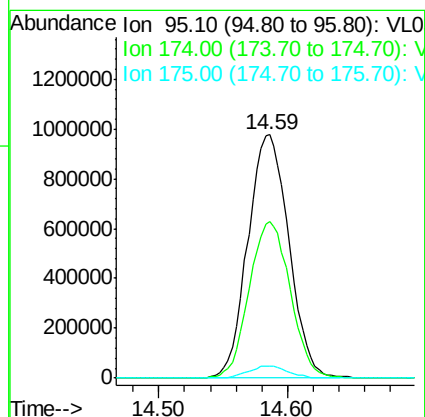
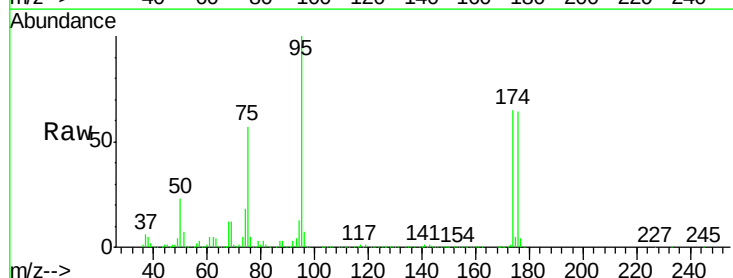
Tgt Ion: 95 Resp: 2158978

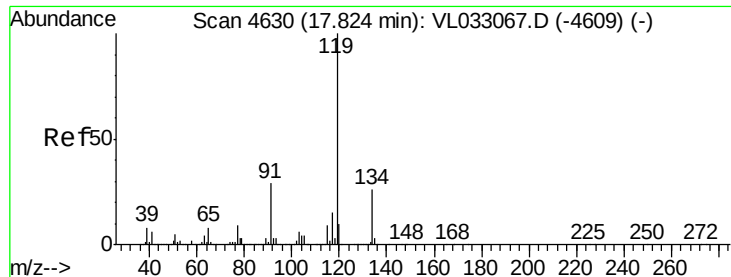
Ion Ratio Lower Upper

95 100

174 64.9 51.9 77.9

175 4.8 3.9 5.9





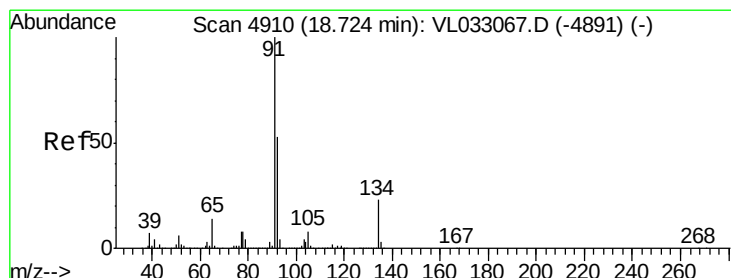
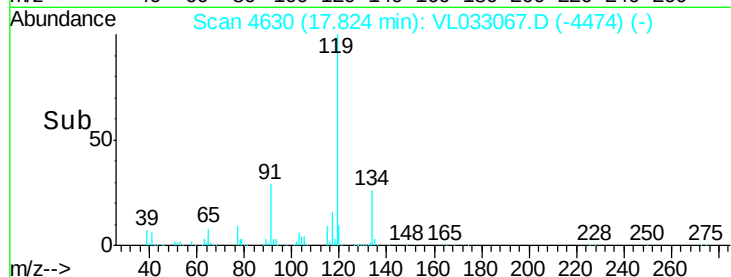
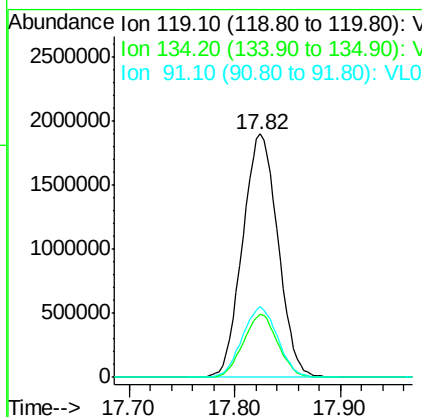
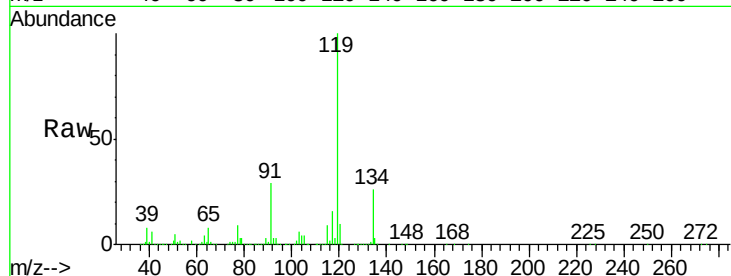
#69
 p-Isopropyltoluene
 Concen: 9.393 ppbv
 RT: 17.82 min Scan# 4630
 Delta R.T. 0.00 min
 Lab File: VL033067.D
 Acq: 4 Jan 2019 13:12

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.2	20.1	30.1
91	29.0	23.0	34.4

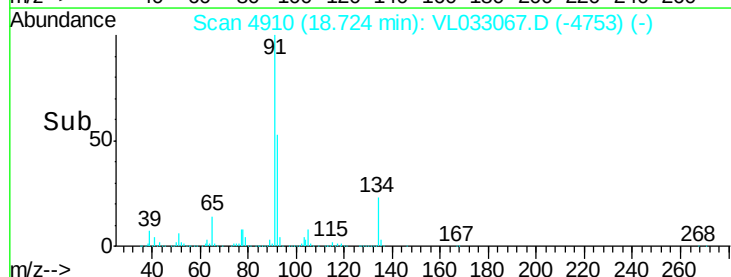
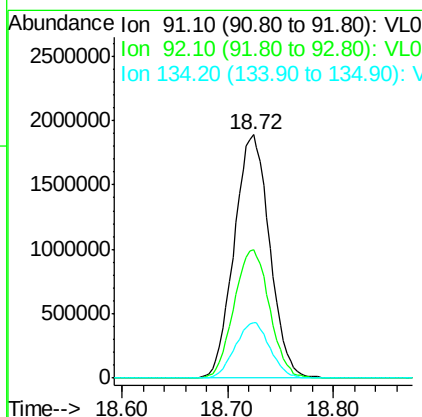
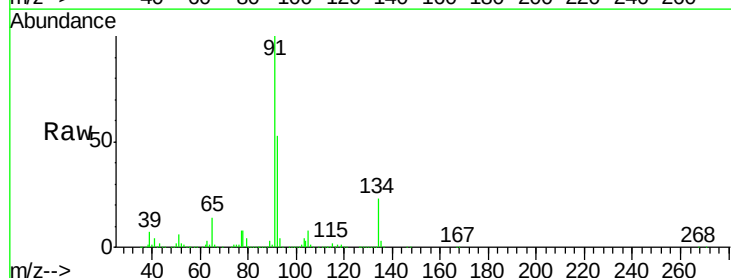
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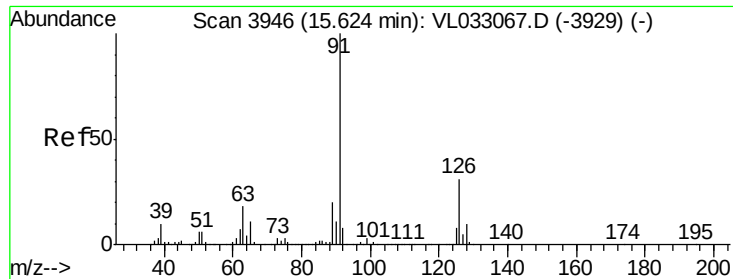
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#70
 n-Butylbenzene
 Concen: 9.157 ppbv
 RT: 18.72 min Scan# 4910
 Delta R.T. 0.00 min
 Lab File: VL033067.D
 Acq: 4 Jan 2019 13:12

Tgt Ion	Ratio	Lower	Upper
91	100		
92	53.0	42.4	63.6
134	22.4	18.0	27.0





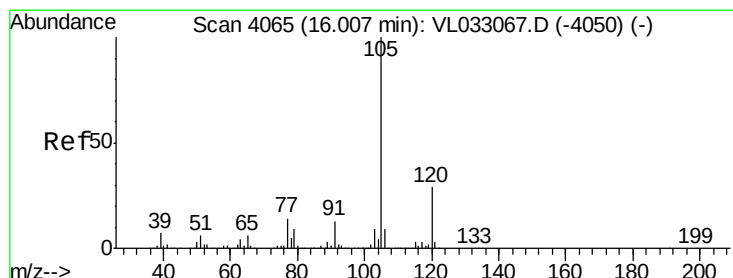
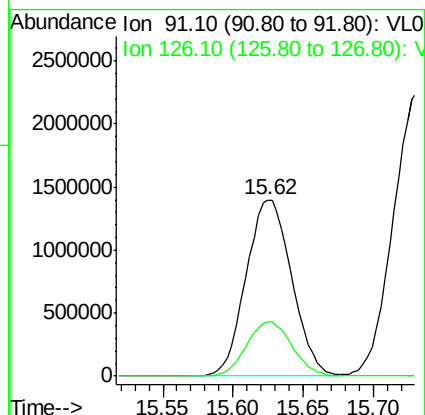
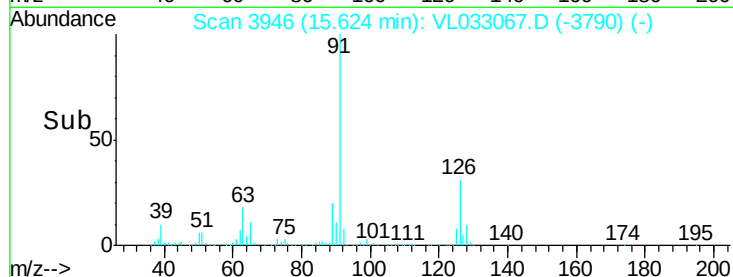
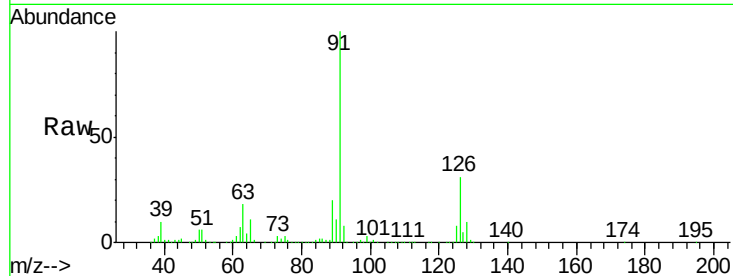
#71
 2-Chlorotoluene
 Concen: 9.651 ppbv
 RT: 15.62 min Scan# 3946
 Delta R.T. 0.00 min
 Lab File: VL033067.D
 Acq: 4 Jan 2019 13:12

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion: 91 Resp: 3170830
 Ion Ratio Lower Upper
 91 100
 126 30.7 12.4 49.6

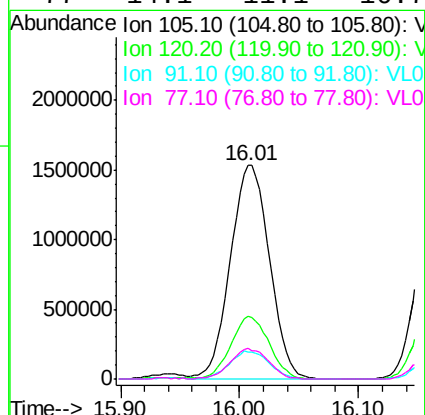
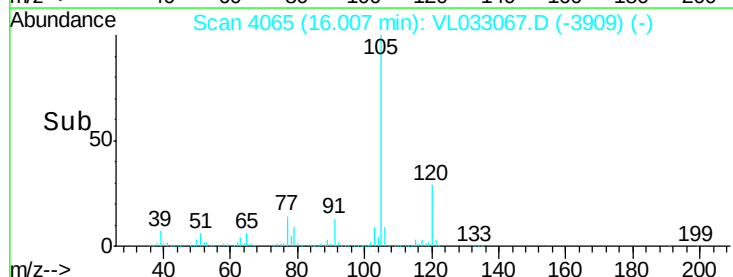
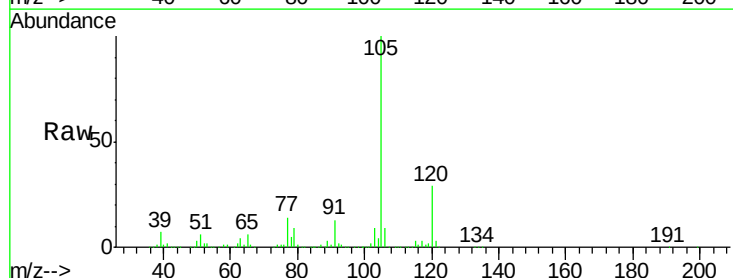
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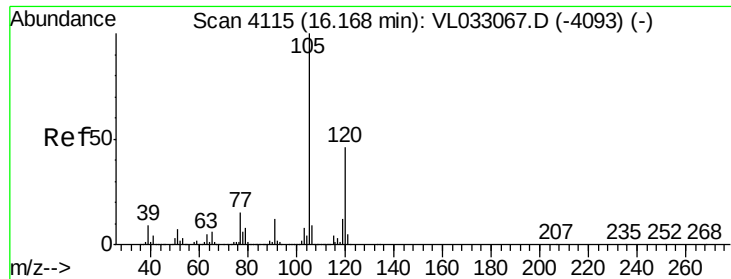
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#72
 4-Ethyltoluene
 Concen: 9.615 ppbv
 RT: 16.01 min Scan# 4065
 Delta R.T. 0.00 min
 Lab File: VL033067.D
 Acq: 4 Jan 2019 13:12

Tgt Ion: 105 Resp: 3478768
 Ion Ratio Lower Upper
 105 100
 120 28.7 23.0 34.6
 91 13.8 10.3 15.5
 77 14.1 11.1 16.7





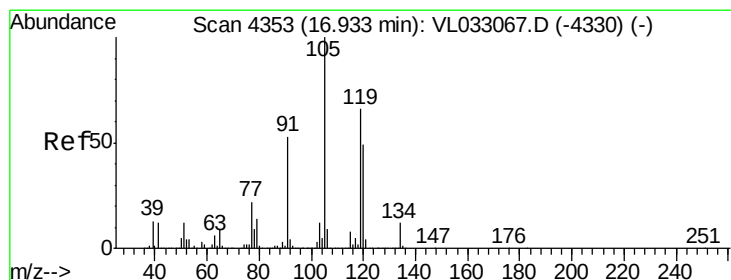
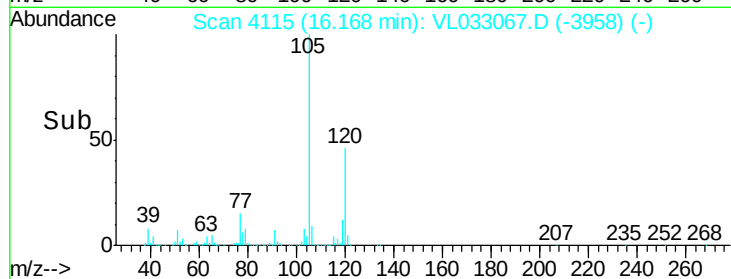
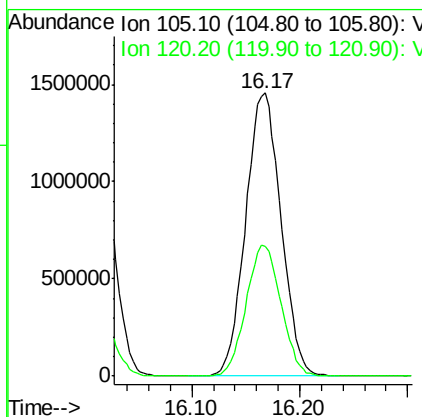
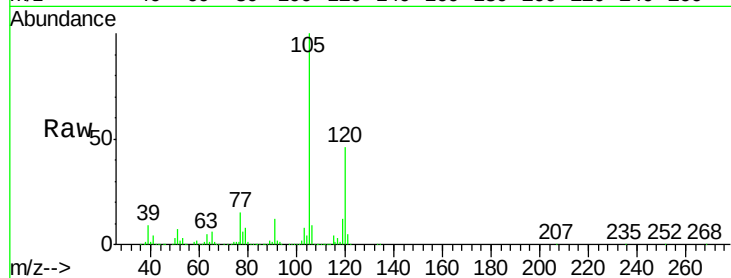
#73
 1,3,5-Trimethylbenzene
 Concen: 9.373 ppbv
 RT: 16.17 min Scan# 4115
 Delta R.T. 0.00 min
 Lab File: VL033067.D
 Acq: 4 Jan 2019 13:12

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion:105 Resp: 3310337
 Ion Ratio Lower Upper
 105 100
 120 45.7 36.1 54.1

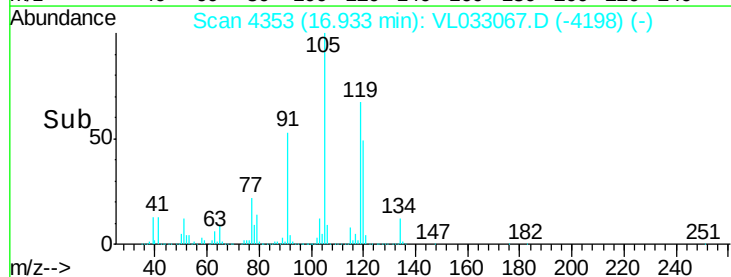
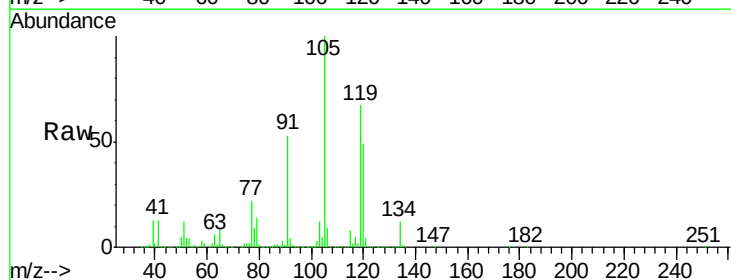
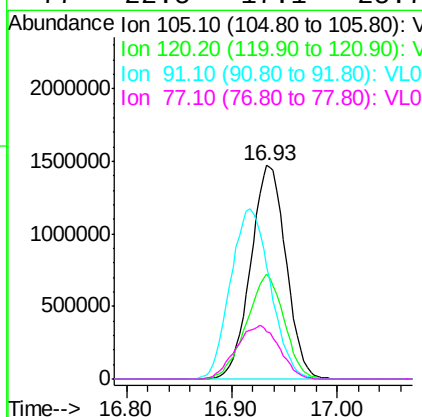
Manual Integrations
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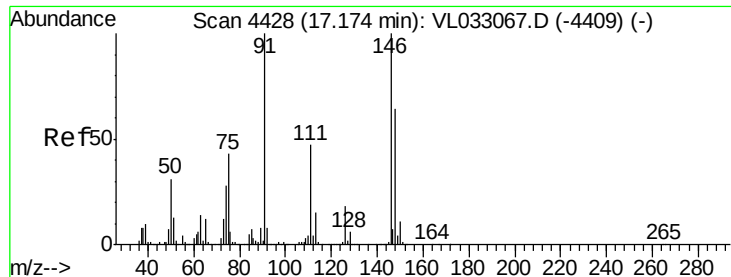
MMDadoda
 1/8/2019 12:02:06 AM



#74
 1,2,4-Trimethylbenzene
 Concen: 8.842 ppbv
 RT: 16.93 min Scan# 4353
 Delta R.T. -0.00 min
 Lab File: VL033067.D
 Acq: 4 Jan 2019 13:12

Tgt Ion:105 Resp: 3429955
 Ion Ratio Lower Upper
 105 100
 120 49.1 37.0 55.4
 91 52.8 35.4 53.0
 77 22.5 17.1 25.7





#75

1,3-Dichlorobenzene

Concen: 8.443 ppbv

RT: 17.17 min Scan# 4428

Delta R.T. 0.00 min

Lab File: VL033067.D

Acq: 4 Jan 2019 13:12

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion:146 Resp: 1917804

Ion Ratio Lower Upper

146 100

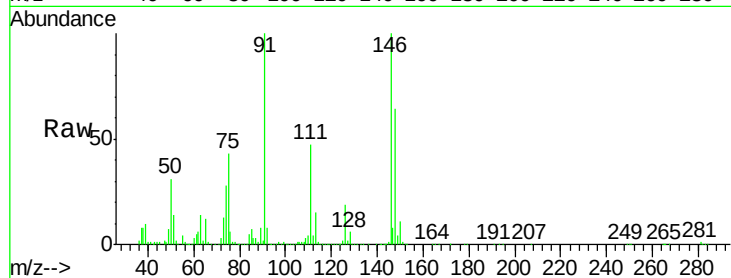
111 47.7 23.4 70.2

148 64.6 32.1 96.3

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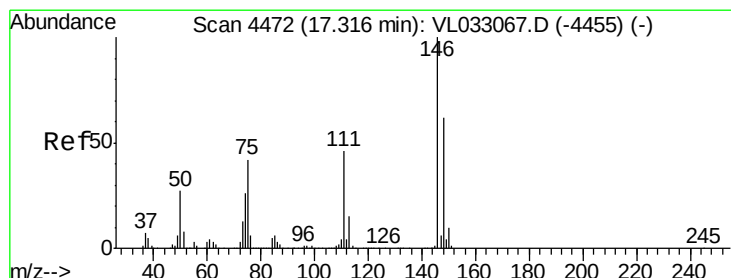
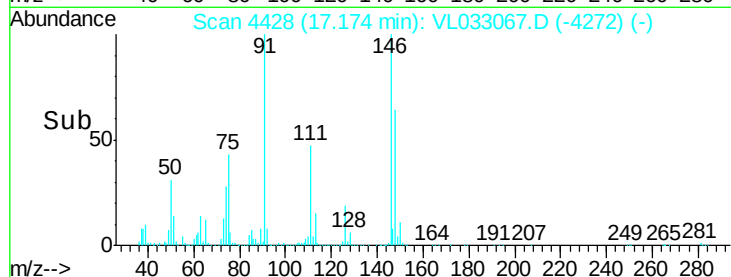
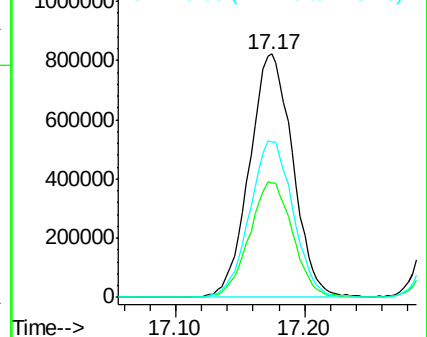
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Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 9.062 ppbv

RT: 17.32 min Scan# 4472

Delta R.T. 0.00 min

Lab File: VL033067.D

Acq: 4 Jan 2019 13:12

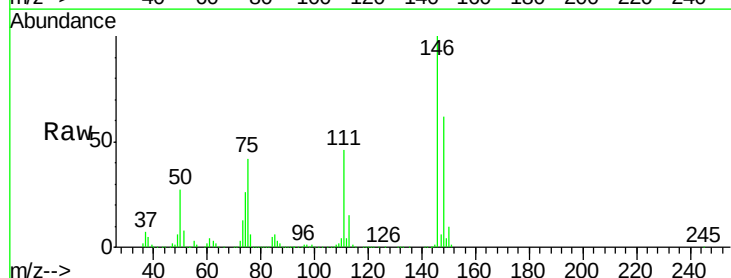
Tgt Ion:146 Resp: 1872540

Ion Ratio Lower Upper

146 100

111 45.4 22.7 68.1

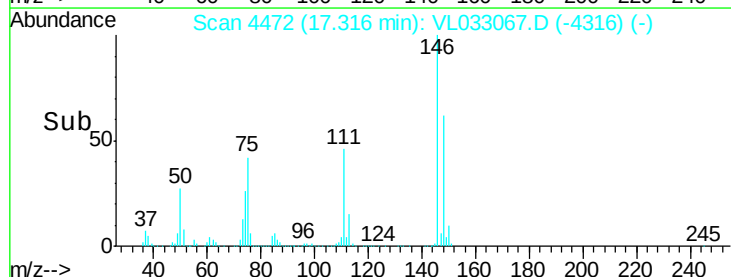
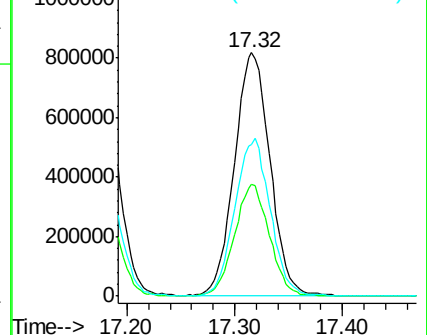
148 64.7 32.4 97.2

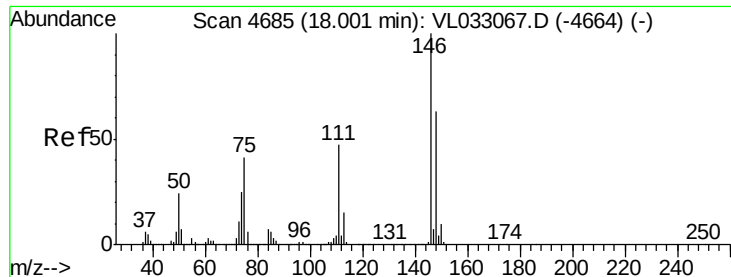


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





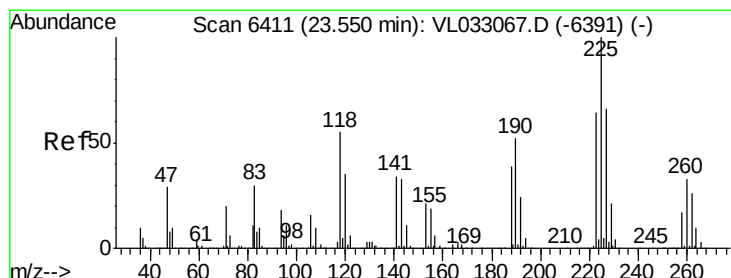
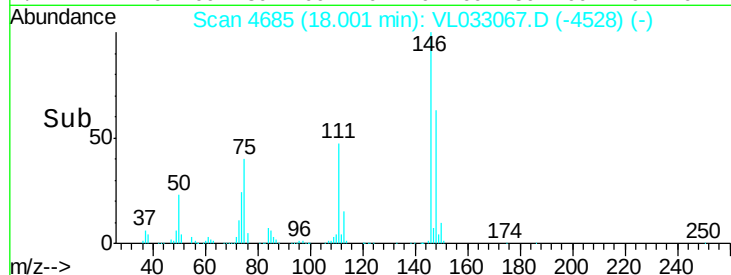
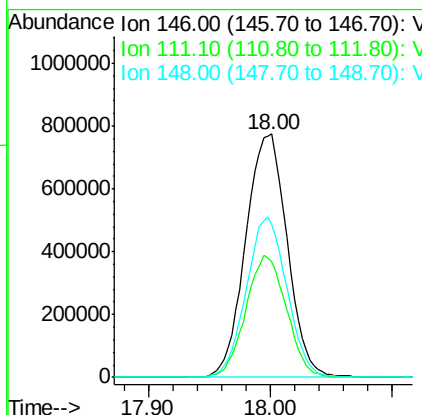
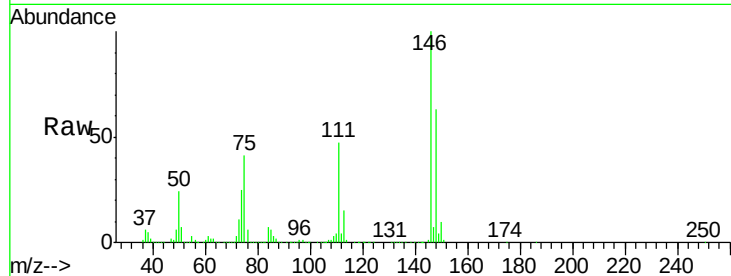
#77
 1,2-Dichlorobenzene
 Concen: 8.766 ppbv
 RT: 18.00 min Scan# 4685
 Delta R.T. 0.00 min
 Lab File: VL033067.D
 Acq: 4 Jan 2019 13:12

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion:146 Resp: 1822738
 Ion Ratio Lower Upper
 146 100
 111 49.1 24.4 73.2
 148 64.5 32.3 96.9

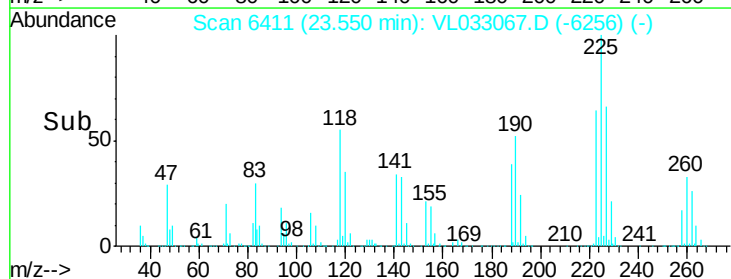
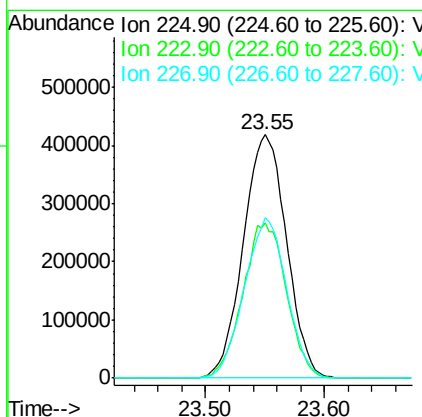
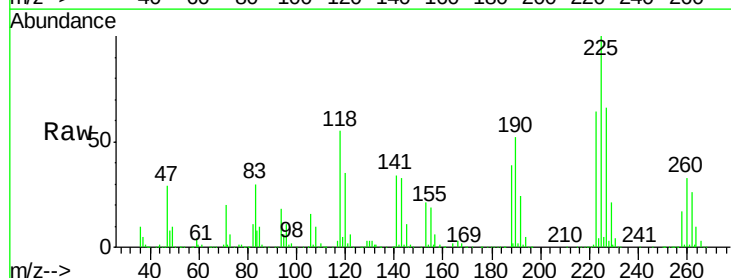
Manual Integrations
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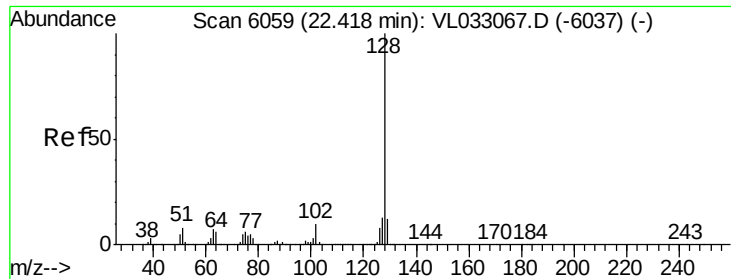
MMDadoda
 1/8/2019 12:02:06 AM



#78
 Hexachloro-1,3-Butadiene
 Concen: 7.198 ppbv
 RT: 23.55 min Scan# 6411
 Delta R.T. -0.00 min
 Lab File: VL033067.D
 Acq: 4 Jan 2019 13:12

Tgt Ion:225 Resp: 1051904
 Ion Ratio Lower Upper
 225 100
 223 64.1 51.0 76.6
 227 64.6 51.0 76.4





#79

Naphthalene

Concen: 9.211 ppbv

RT: 22.42 min Scan# 6059

Delta R.T. -0.01 min

Lab File: VL033067.D

Acq: 4 Jan 2019 13:12

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion:128 Resp: 3246051

Ion Ratio Lower Upper

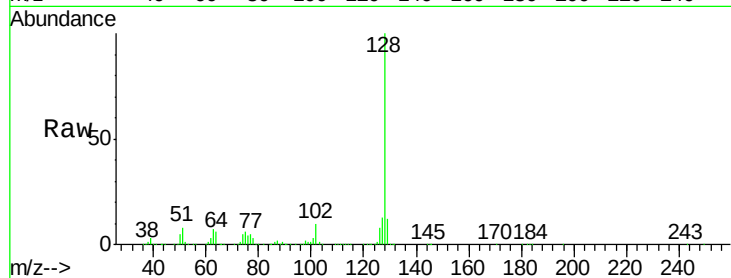
128 100

127 13.0 11.0 16.6

129 11.6 9.4 14.0

Manual Integrations
APPROVED

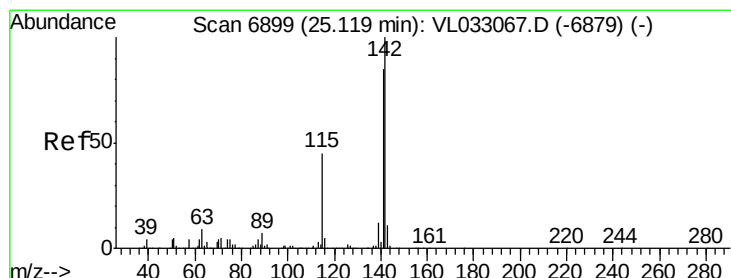
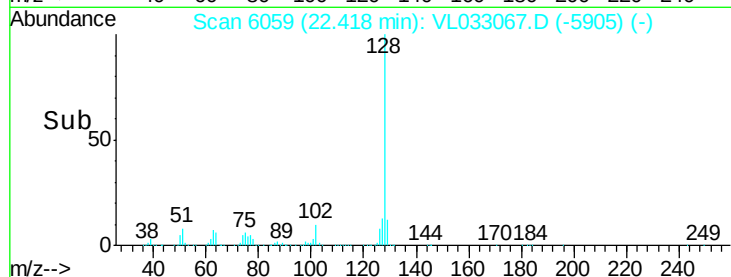
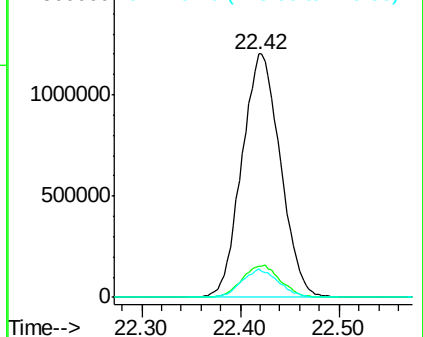
MMDadoda
1/8/2019 12:02:06 AM



Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 12.448 ppbv

RT: 25.12 min Scan# 6899

Delta R.T. 0.00 min

Lab File: VL033067.D

Acq: 4 Jan 2019 13:12

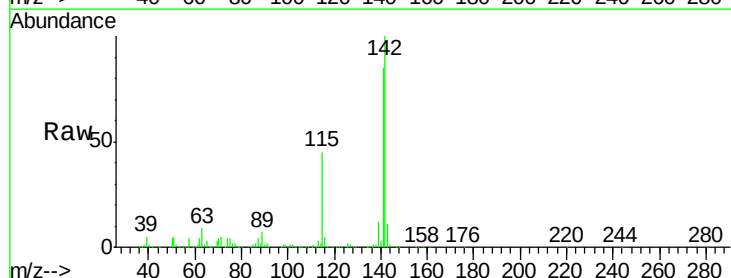
Tgt Ion:142 Resp: 1216479

Ion Ratio Lower Upper

142 100

141 85.2 68.6 103.0

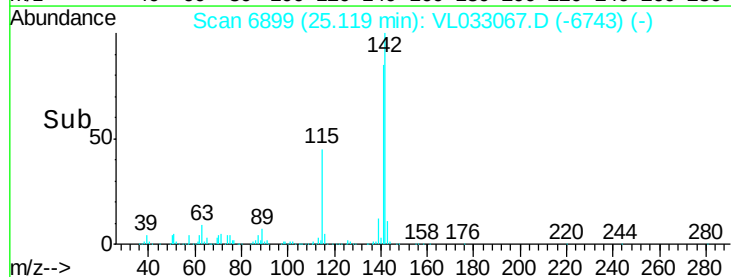
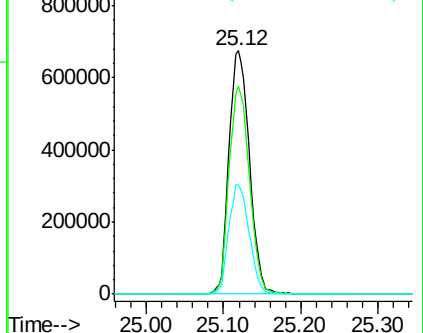
115 45.1 35.6 53.4

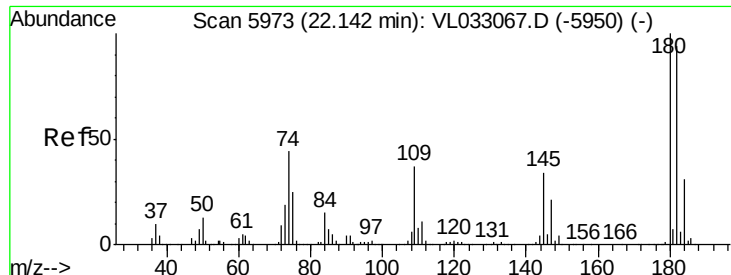


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V





#81
 1,2,4-Trichlorobenzene
 Concen: 9.459 ppbv
 RT: 22.14 min Scan# 5973
 Delta R.T. -0.00 min
 Lab File: VL033067.D
 Acq: 4 Jan 2019 13:12

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.8	76.1	114.1
184	30.1	24.6	37.0

Manual Integrations
 APPROVED

MMDadoda
 1/8/2019 12:02:06 AM

