

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL020519\
 Data File : VL033176.D
 Acq On : 6 Feb 2019 6:59
 Operator : SY/AP
 Sample : VSTDICV010
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL020519

Manual Integrations
 APPROVED

MMDadoda
 2/20/2019 12:21:38 PM

Quant Time: Feb 20 06:22:05 2019

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL020519AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Feb 20 06:22:05 2019

QLast Update : Wed Feb 20 06:00:52 2019

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	1062983	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	2588802	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	2633151m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	1991700	9.71	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.10%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.08	85	1751219	8.617	ppbv	99
3) Chlorodifluoromethane	3.01	51	1191409	9.308	ppbv	98
4) Chloromethane	3.17	50	641086	9.486	ppbv	99
5) Vinyl Chloride	3.29	62	623786	8.839	ppbv	99
6) Bromomethane	3.51	94	392353	10.116	ppbv	98
7) Chloroethane	3.60	64	234516	10.165	ppbv	98
8) Dichlorotetrafluoroethane	3.22	85	1467075	9.230	ppbv	100
9) Propene	3.04	41	568473	9.194	ppbv	99
10) Heptane	8.25	43	1468025	7.848	ppbv	100
11) Trichlorofluoromethane	4.00	101	1573708	9.565	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.55	101	1057429	9.273	ppbv	98
13) Ethanol	3.65	45	161530	7.687	ppbv	94
14) Bromoethene	3.79	108	490293	9.972	ppbv	99
15) Acetone	3.90	43	1065280	8.895	ppbv	100
16) 1,3-Butadiene	3.36	39	533281	9.381	ppbv	98
17) tert-Butyl alcohol	4.36	59	244525	10.629	ppbv	99
18) 1,1-Dichloroethene	4.35	96	499362	9.783	ppbv	96
19) Isopropyl Alcohol	4.02	45	787432	9.695	ppbv	99
20) Methylene Chloride	4.41	84	417548	8.765	ppbv	96
21) Allyl Chloride	4.48	41	793724	10.037	ppbv	100
22) trans-1,2-Dichloroethene	4.96	96	486434	9.813	ppbv	93
23) Vinyl Acetate	5.16	43	2058666	9.918	ppbv	99
24) 1,1-Dichloroethane	5.09	63	1397346	9.518	ppbv	99
25) Ethyl Acetate	5.77	43	2382935	8.850	ppbv	100
26) Hexane	5.78	57	1086073	8.592	ppbv	100
27) Carbon Disulfide	4.62	76	1204996	10.406	ppbv	99
28) Methyl tert-Butyl Ether	5.11	73	1663051	9.628	ppbv	100
29) Chloroform	5.85	83	1732326	8.943	ppbv	97
30) Cyclohexane	7.25	84	963758	8.217	ppbv	99
31) cis-1,2-Dichloroethene	5.64	61	1144952	9.050	ppbv	98
32) 1,1,1-Trichloroethane	6.62	97	1652597	7.748	ppbv	100
34) 2-Butanone	5.33	43	1670375	10.172	ppbv	100
35) Carbon Tetrachloride	7.14	117	1738635	8.794	ppbv	98
36) Benzene	7.01	78	2330658	8.883	ppbv	99
37) 1,2-Dichloroethane	6.42	62	1327815	9.132	ppbv	99
38) Trichloroethene	7.97	130	850665	7.587	ppbv	95
39) 1,2-Dichloropropane	7.74	63	902778	8.713	ppbv	98
40) 1,4-Dioxane	7.96	88	322508	8.766	ppbv	91
41) Tetrahydrofuran	6.15	42	949223	9.351	ppbv	100
42) Bromodichloromethane	7.92	83	1905432	9.043	ppbv	99
43) Methyl Methacrylate	8.14	69	950040	9.019	ppbv	100

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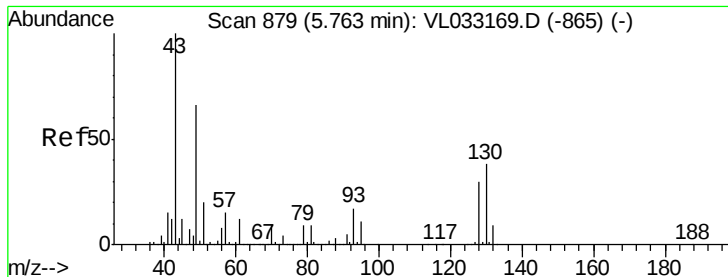
Manual Integrations
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 2/20/2019 12:21:38 PM

Quant Time: Feb 20 06:22:05 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL020519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Feb 20 06:22:05 2019
 QLast Update : Wed Feb 20 06:00:52 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	3819316	8.590	ppbv	99
45) t-1,3-Dichloropropene	9.42	75	1238087	10.614	ppbv	97
46) cis-1,3-Dichloropropene	8.84	75	1433707	9.619	ppbv	98
47) 1,1,2-Trichloroethane	9.62	97	938697	8.736	ppbv	96
48) Dibromochloromethane	10.46	129	1579632	9.331	ppbv	100
49) Bromoform	13.21	173	1386298	9.517	ppbv	100
50) 4-Methyl-2-Pentanone	8.87	43	2335297	8.869	ppbv	99
51) 2-Hexanone	10.27	43	1877621	9.044	ppbv #	99
52) Tetrachloroethene	11.38	164	817516	8.110	ppbv	97
53) Toluene	9.95	91	2727696	8.780	ppbv	99
54) 1,2-Dibromoethane	10.76	107	1475593	8.751	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.28	131	1102011	8.986	ppbv	97
57) Chlorobenzene	12.31	112	1962316	8.422	ppbv	98
58) Ethyl Benzene	12.87	91	3731065	8.632	ppbv	99
59) m/p-Xylene	13.13	91	6081428m	16.915	ppbv	
60) o-Xylene	13.86	91	2919298	8.327	ppbv	100
61) Styrene	13.69	104	2299736	8.689	ppbv	99
62) Isopropylbenzene	14.83	105	4191751	8.474	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.84	83	2008510	7.339	ppbv	100
64) n-propylbenzene	15.73	120	1082077	8.605	ppbv	99
65) tert-Butylbenzene	16.92	119	3638152	8.447	ppbv	100
66) Benzyl Chloride	17.16	91	1863960	12.110	ppbv	100
67) sec-Butylbenzene	17.47	105	5238551	8.378	ppbv	99
69) p-Isopropyltoluene	17.82	119	4314074	8.285	ppbv	100
70) n-Butylbenzene	18.72	91	4643551	8.266	ppbv	100
71) 2-Chlorotoluene	15.62	91	3297432	8.485	ppbv	100
72) 4-Ethyltoluene	16.01	105	3522044	8.710	ppbv	99
73) 1,3,5-Trimethylbenzene	16.16	105	3350886	8.665	ppbv	99
74) 1,2,4-Trimethylbenzene	16.93	105	3324564	8.289	ppbv	95
75) 1,3-Dichlorobenzene	17.17	146	1956025	8.456	ppbv	99
76) 1,4-Dichlorobenzene	17.31	146	1965826	8.577	ppbv	100
77) 1,2-Dichlorobenzene	17.99	146	1914220	8.374	ppbv	100
78) Hexachloro-1,3-Butadiene	23.55	225	1393655m	12.261	ppbv	
79) Naphthalene	22.42	128	3508886	8.141	ppbv	98
80) Naphthalene,2-methyl-	25.12	142	1620870	7.435	ppbv	99
81) 1,2,4-Trichlorobenzene	22.14	180	1730249	7.903	ppbv	99

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 880

Delta R.T. 0.00 min

Lab File: VL033176.D

Acq: 6 Feb 2019 6:59

Instrument :

MSVOA_L

ClientSampleId :

ICVVL020519

Tgt Ion: 49 Resp: 1062983

Ion Ratio Lower Upper

49 100

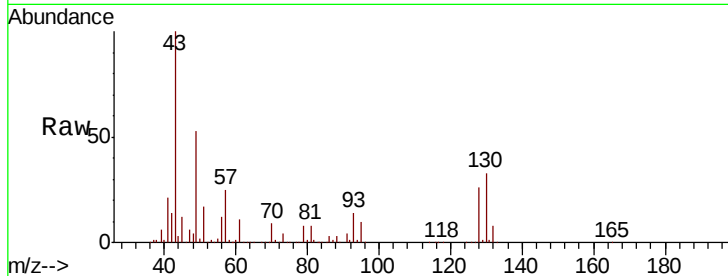
128 47.6 23.6 71.0

130 60.8 30.3 91.0

Manual Integrations
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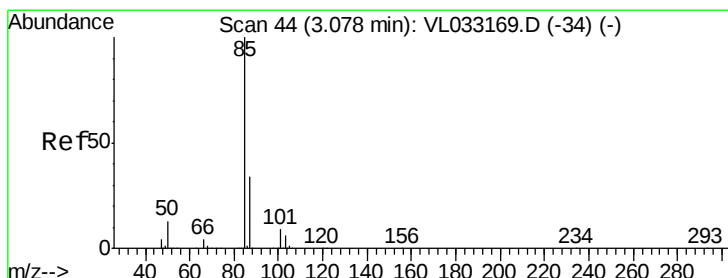
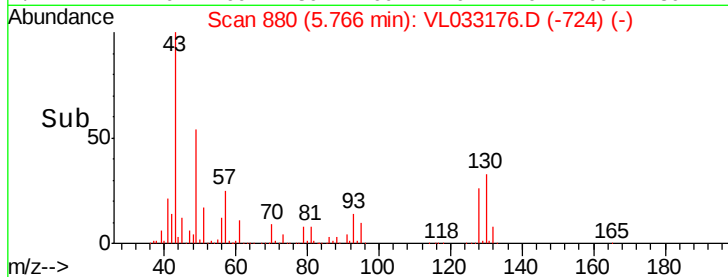
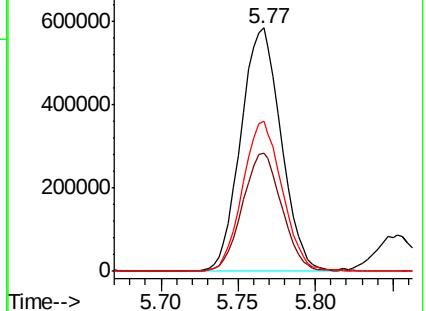
2/20/2019 12:21:38 PM



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: 8.617 ppbv

RT: 3.08 min Scan# 44

Delta R.T. -0.00 min

Lab File: VL033176.D

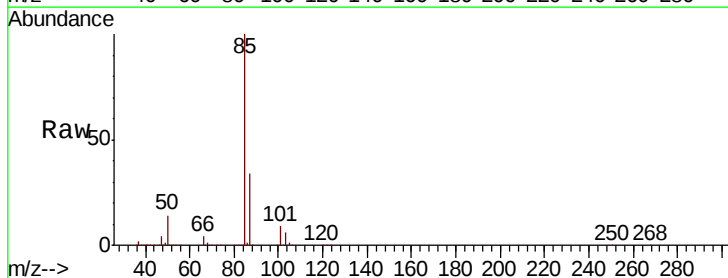
Acq: 6 Feb 2019 6:59

Tgt Ion: 85 Resp: 1751219

Ion Ratio Lower Upper

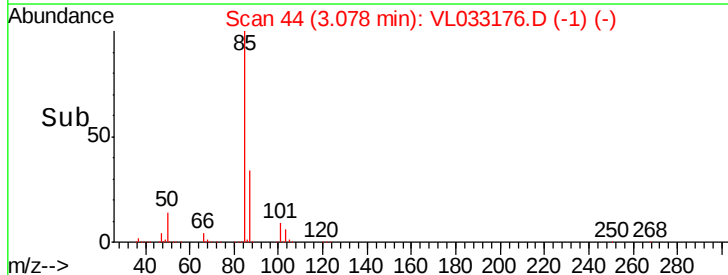
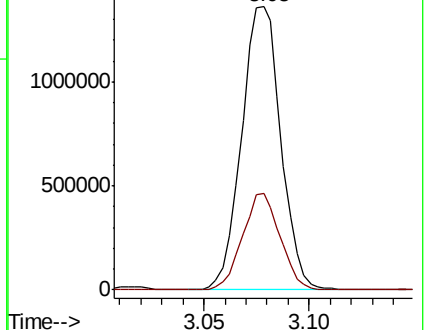
85 100

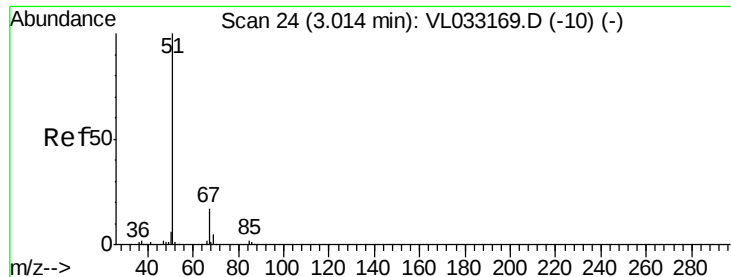
87 34.0 27.4 41.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 9.308 ppbv

RT: 3.01 min Scan# 24

Delta R.T. -0.00 min

Lab File: VL033176.D

Acq: 6 Feb 2019 6:59

Instrument :

MSVOA_L

ClientSampleId :

ICVVL020519

Tgt Ion: 51 Resp: 1191409

Ion Ratio Lower Upper

51 100

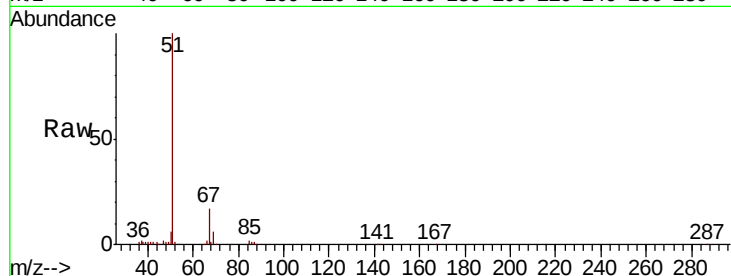
67 18.2 14.0 21.0

Manual Integrations

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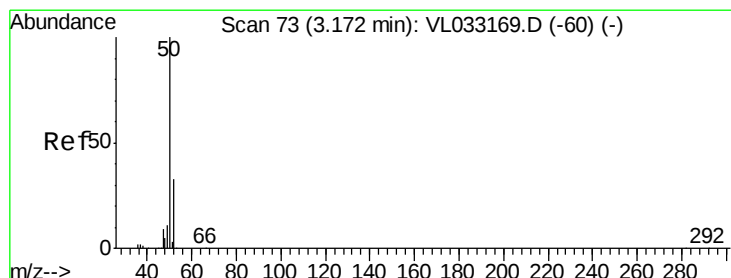
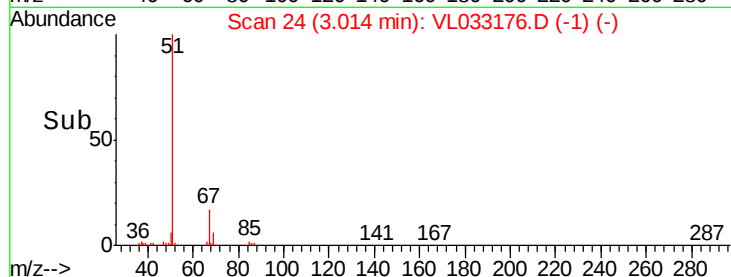
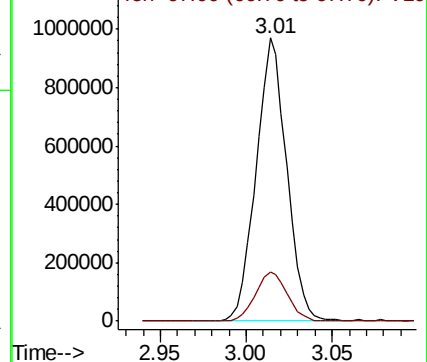
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2/20/2019 12:21:38 PM



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 9.486 ppbv

RT: 3.17 min Scan# 73

Delta R.T. -0.00 min

Lab File: VL033176.D

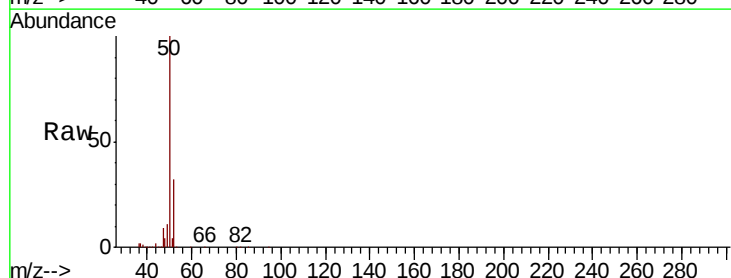
Acq: 6 Feb 2019 6:59

Tgt Ion: 50 Resp: 641086

Ion Ratio Lower Upper

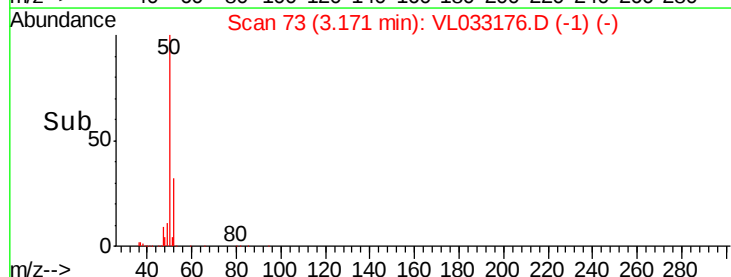
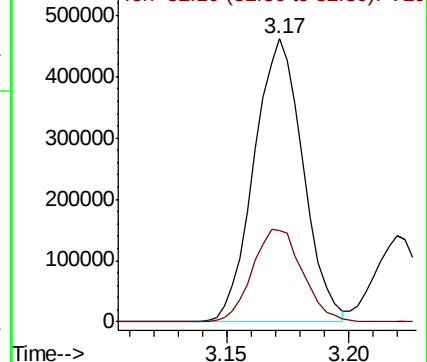
50 100

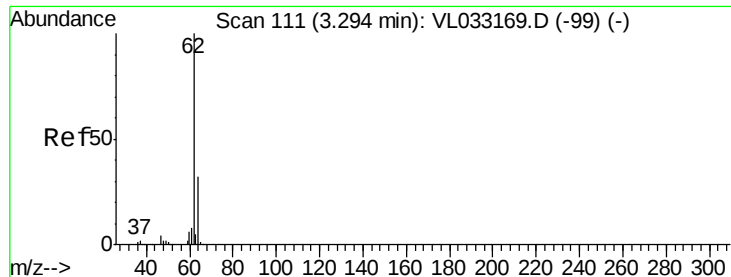
52 32.4 26.5 39.7



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 8.839 ppbv

RT: 3.29 min Scan# 110

Delta R.T. -0.00 min

Lab File: VL033176.D

Acq: 6 Feb 2019 6:59

Instrument :

MSVOA_L

ClientSampleId :

ICVVL020519

Tgt Ion: 62 Resp: 623786

Ion Ratio Lower Upper

62 100

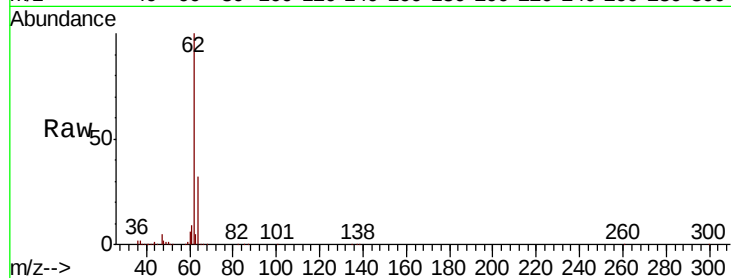
64 31.7 25.6 38.4

Manual Integrations

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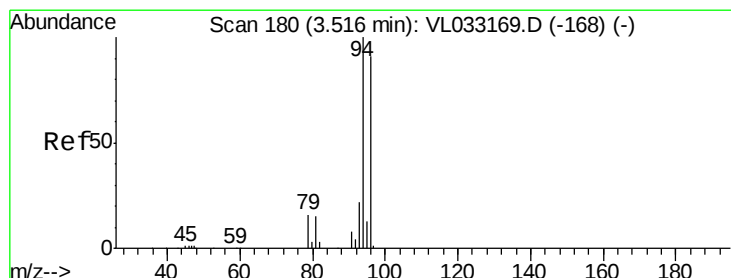
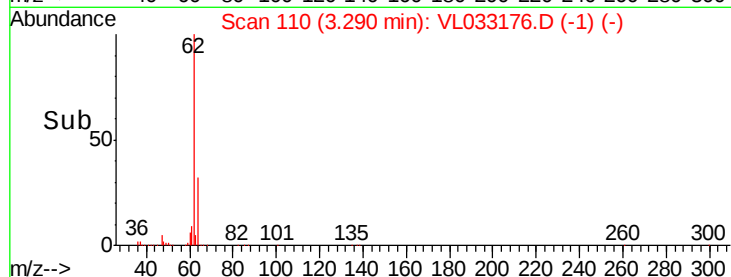
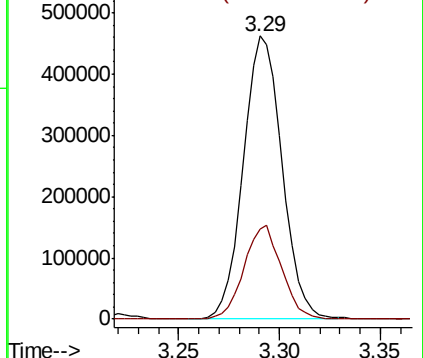
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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 10.116 ppbv

RT: 3.51 min Scan# 179

Delta R.T. -0.00 min

Lab File: VL033176.D

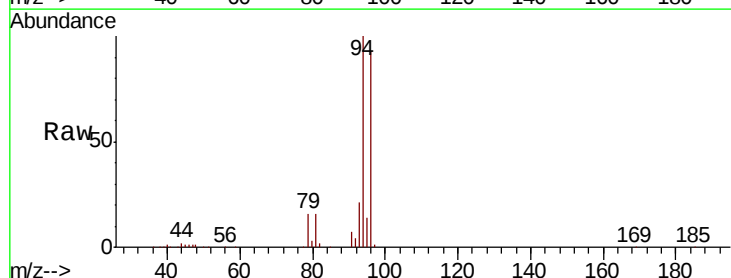
Acq: 6 Feb 2019 6:59

Tgt Ion: 94 Resp: 392353

Ion Ratio Lower Upper

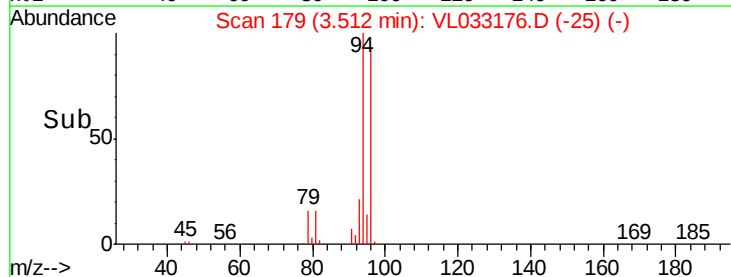
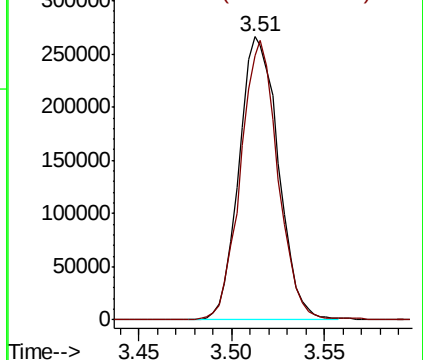
94 100

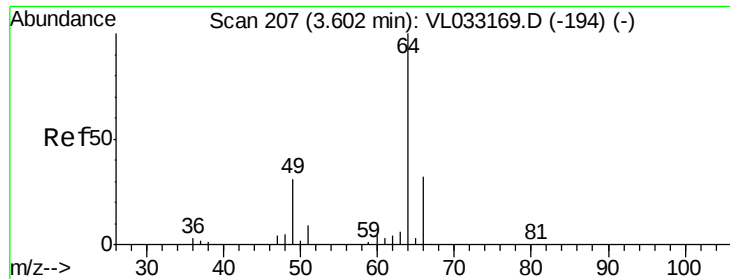
96 93.2 73.2 109.8



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 10.165 ppbv

RT: 3.60 min Scan# 207

Delta R.T. -0.00 min

Lab File: VL033176.D

Acq: 6 Feb 2019 6:59

Instrument :

MSVOA_L

ClientSampleId :

ICVVL020519

Tgt Ion: 64 Resp: 234516

Ion Ratio Lower Upper

64 100

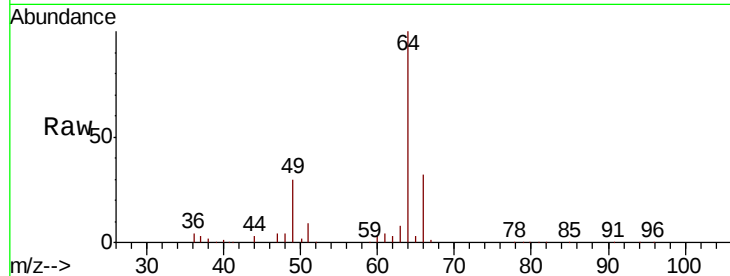
66 31.5 26.0 39.0

Manual Integrations

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2/20/2019 12:21:38 PM



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0

200000

150000

100000

50000

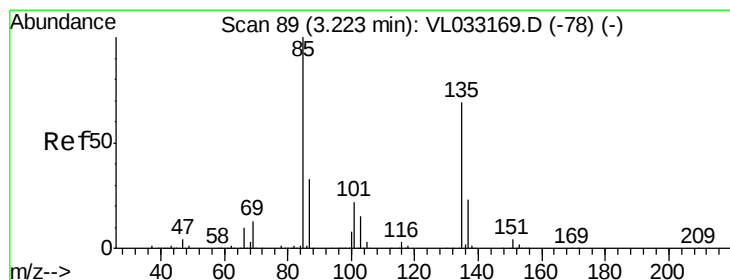
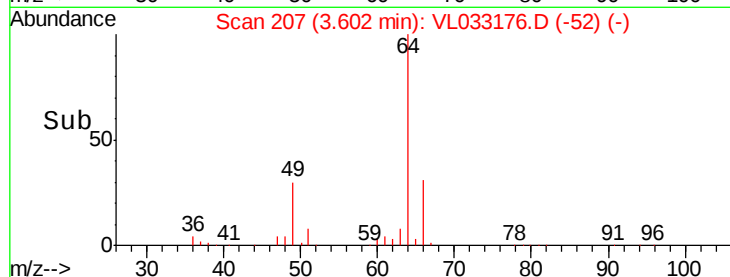
0

3.55

3.60

3.65

Time-->



#8

Dichlorotetrafluoroethane

Concen: 9.230 ppbv

RT: 3.22 min Scan# 88

Delta R.T. -0.00 min

Lab File: VL033176.D

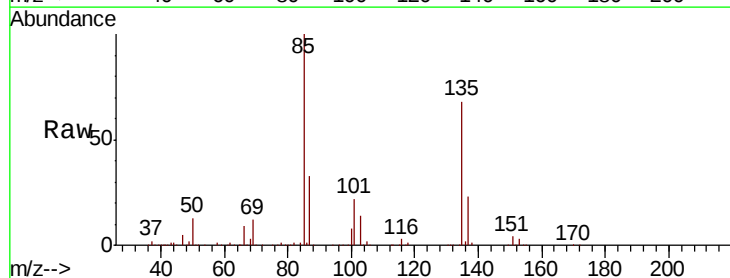
Acq: 6 Feb 2019 6:59

Tgt Ion: 85 Resp: 1467075

Ion Ratio Lower Upper

85 100

135 67.9 54.3 81.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

1200000

1000000

800000

600000

400000

200000

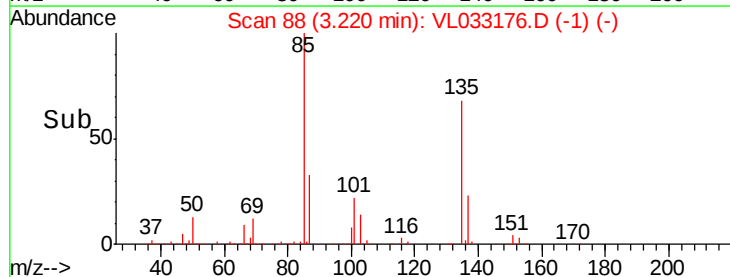
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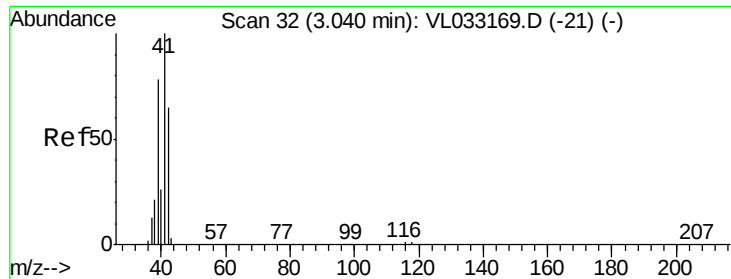
3.20

3.22

3.25

Time-->





#9

Propene

Concen: 9.194 ppbv

RT: 3.04 min Scan# 31

Delta R.T. -0.00 min

Lab File: VL033176.D

Acq: 6 Feb 2019 6:59

Instrument :

MSVOA_L

ClientSampleId :

ICVVL020519

Tgt Ion: 41 Resp: 568473

Ion Ratio Lower Upper

41 100

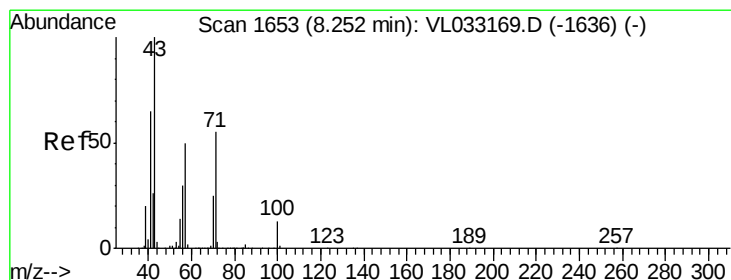
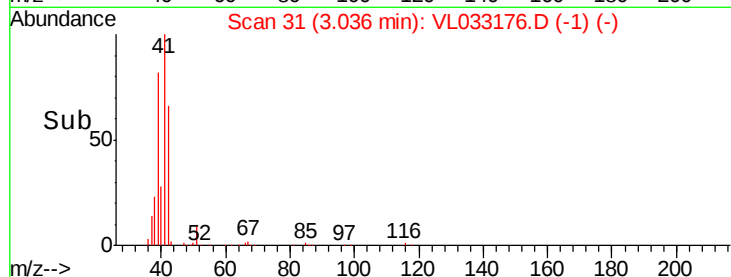
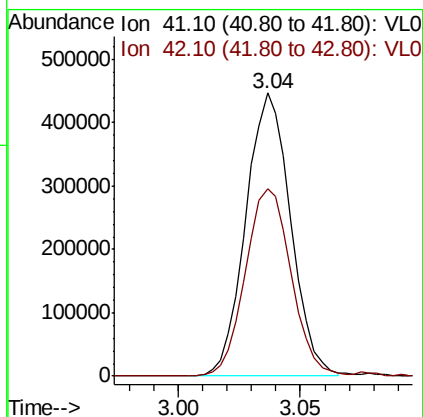
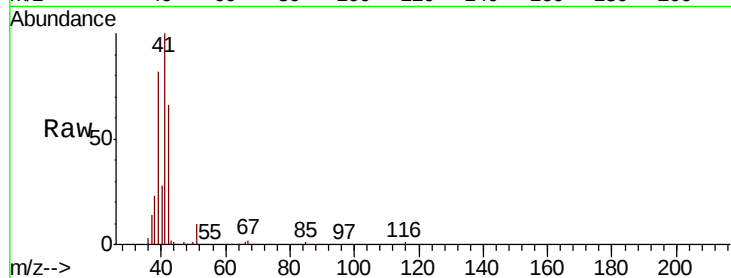
42 68.4 55.0 82.6

Manual Integrations

APPROVED

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2/20/2019 12:21:38 PM



#10

Heptane

Concen: 7.848 ppbv

RT: 8.25 min Scan# 1652

Delta R.T. -0.00 min

Lab File: VL033176.D

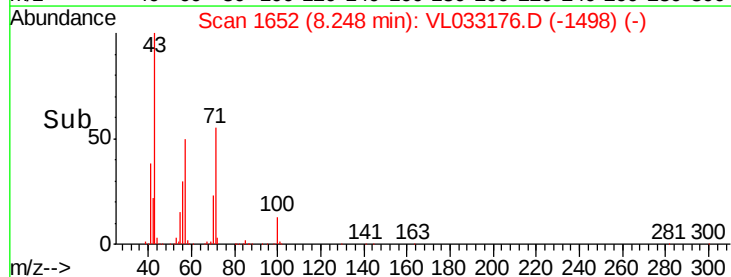
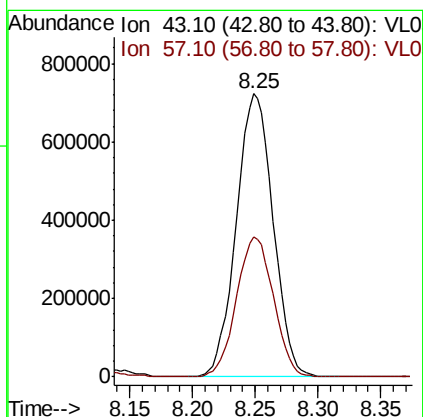
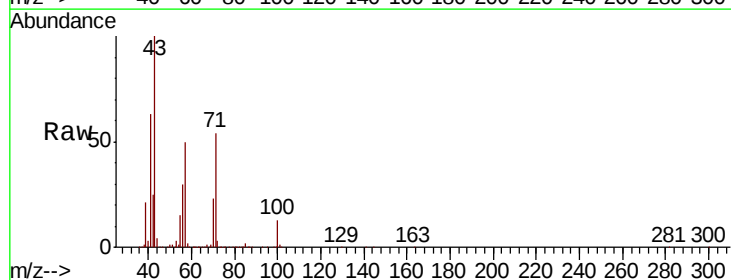
Acq: 6 Feb 2019 6:59

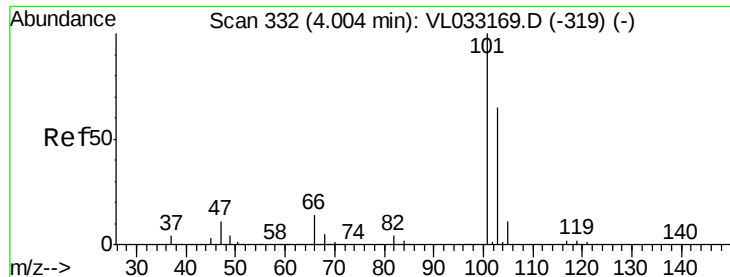
Tgt Ion: 43 Resp: 1468025

Ion Ratio Lower Upper

43 100

57 49.7 39.5 59.3





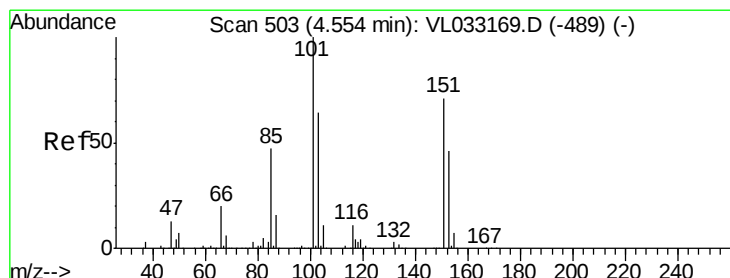
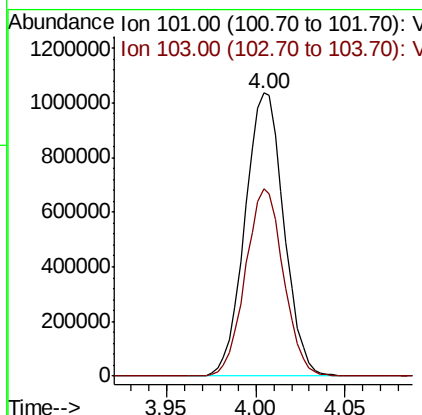
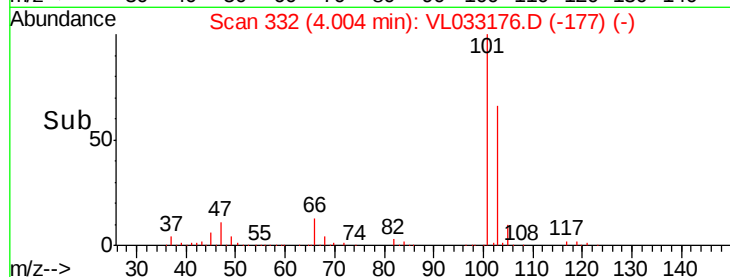
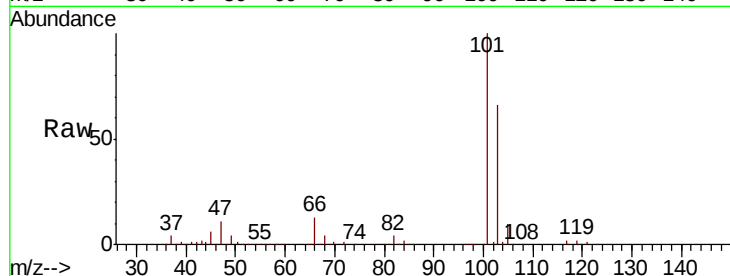
#11
 Trichlorofluoromethane
 Concen: 9.565 ppbv
 RT: 4.00 min Scan# 332
 Delta R.T. -0.00 min
 Lab File: VL033176.D
 Acq: 6 Feb 2019 6:59

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL020519

Tgt Ion:101 Resp: 1573708
 Ion Ratio Lower Upper
 101 100
 103 66.3 51.7 77.5

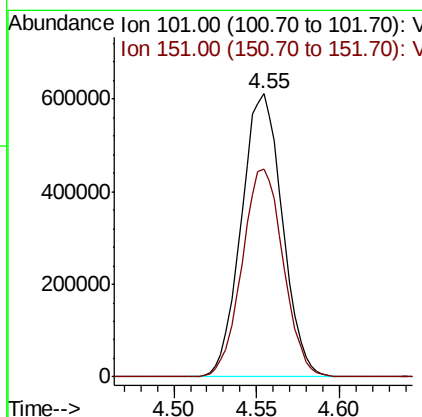
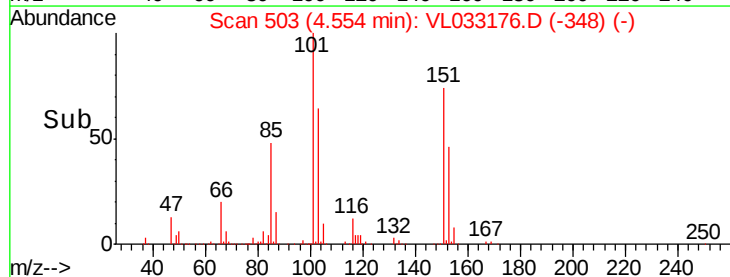
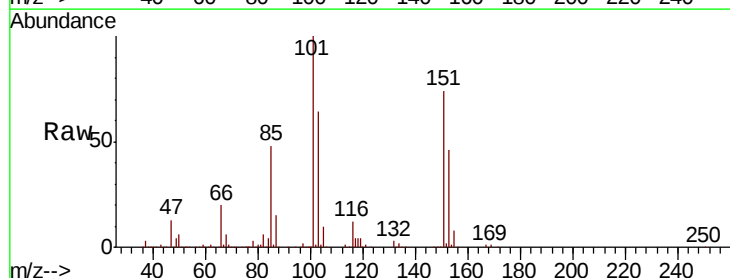
Manual Integrations
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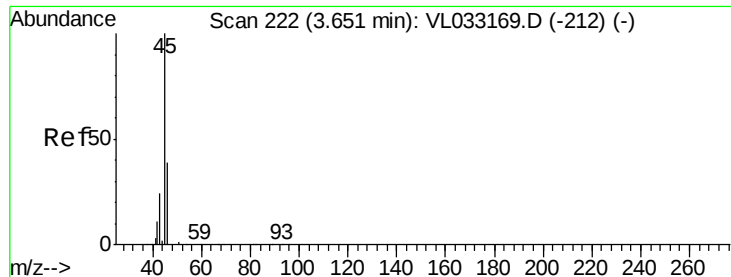
MMDadoda
 2/20/2019 12:21:38 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.273 ppbv
 RT: 4.55 min Scan# 503
 Delta R.T. -0.00 min
 Lab File: VL033176.D
 Acq: 6 Feb 2019 6:59

Tgt Ion:101 Resp: 1057429
 Ion Ratio Lower Upper
 101 100
 151 73.7 57.4 86.0





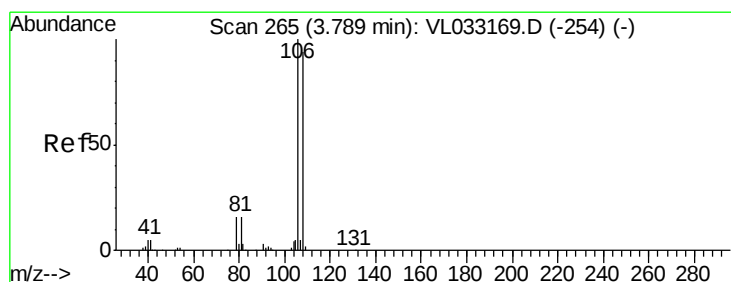
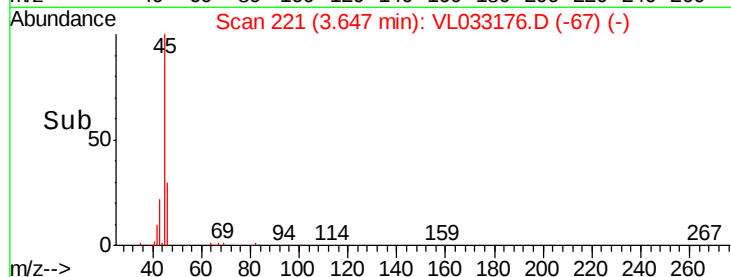
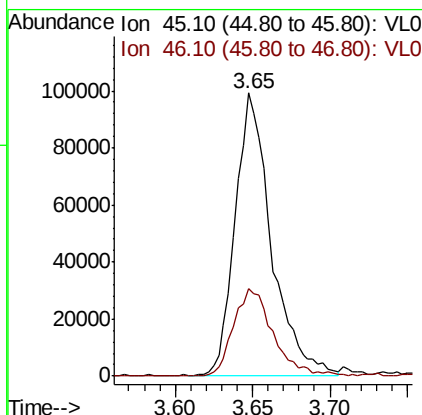
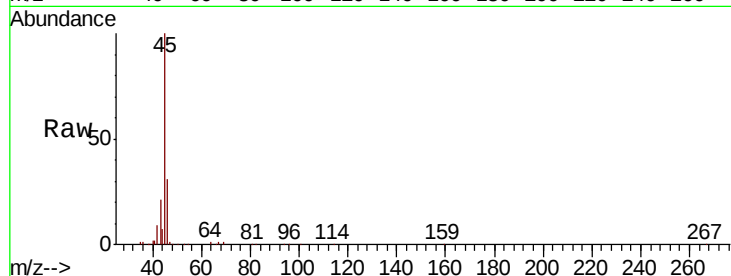
#13
Ethanol
Concen: 7.687 ppbv
RT: 3.65 min Scan# 221
Delta R.T. -0.00 min
Lab File: VL033176.D
Acq: 6 Feb 2019 6:59

Instrument :
MSVOA_L
ClientSampled :
ICVVL020519

Tgt Ion: 45 Resp: 161530
Ion Ratio Lower Upper
45 100
46 33.8 15.0 60.2

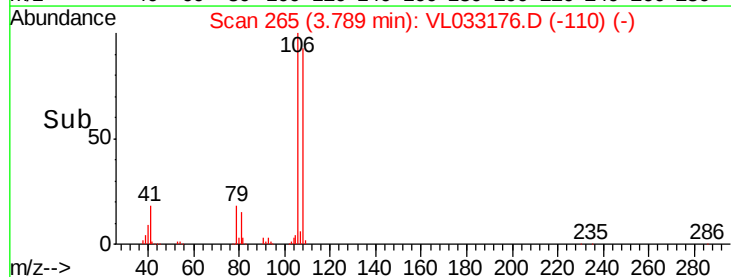
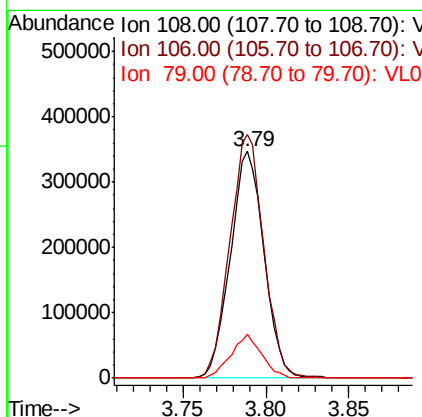
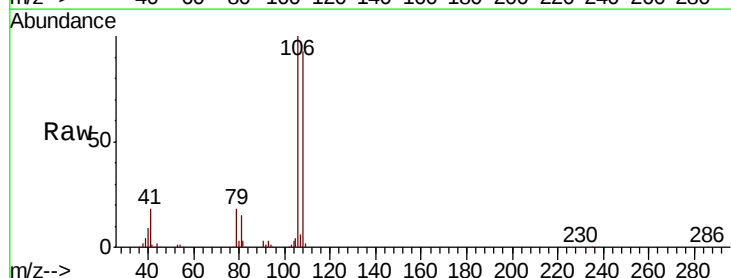
Manual Integrations
APPROVED

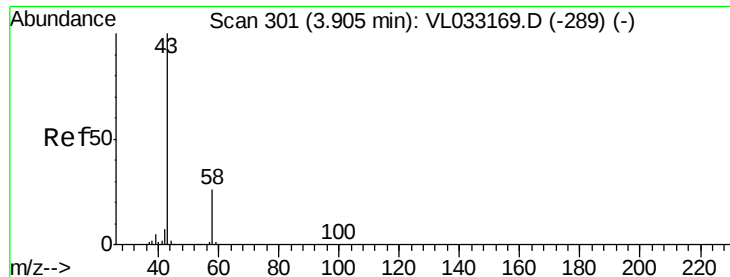
MMDadoda
2/20/2019 12:21:38 PM



#14
Bromoethene
Concen: 9.972 ppbv
RT: 3.79 min Scan# 265
Delta R.T. -0.00 min
Lab File: VL033176.D
Acq: 6 Feb 2019 6:59

Tgt Ion: 108 Resp: 490293
Ion Ratio Lower Upper
108 100
106 108.2 86.0 129.0
79 17.8 14.5 21.7





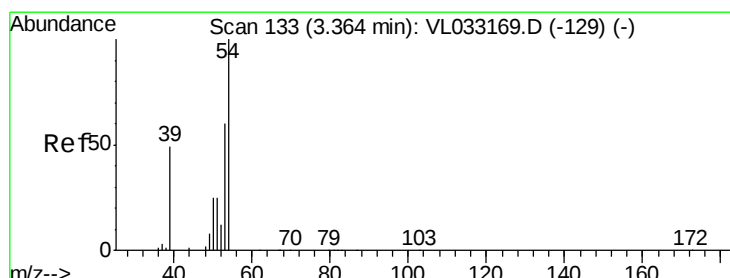
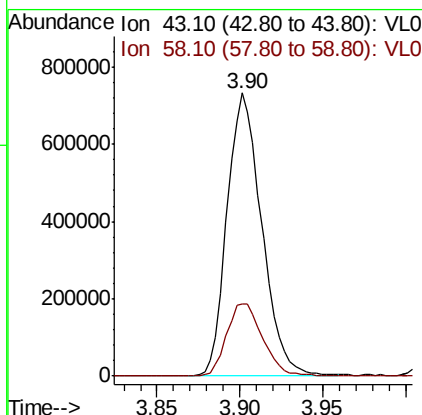
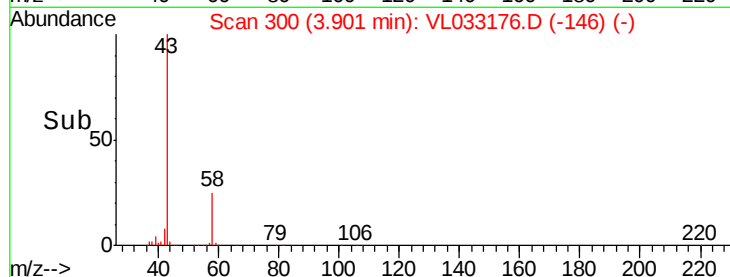
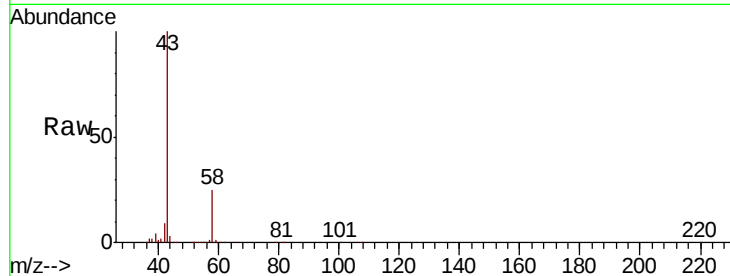
#15
Acetone
Concen: 8.895 ppbv
RT: 3.90 min Scan# 300
Delta R.T. -0.00 min
Lab File: VL033176.D
Acq: 6 Feb 2019 6:59

Instrument :
MSVOA_L
ClientSampleId :
ICVVL020519

Tgt Ion: 43 Resp: 1065280
Ion Ratio Lower Upper
43 100
58 26.6 21.1 31.7

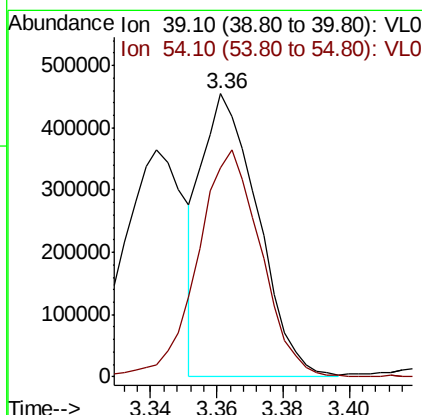
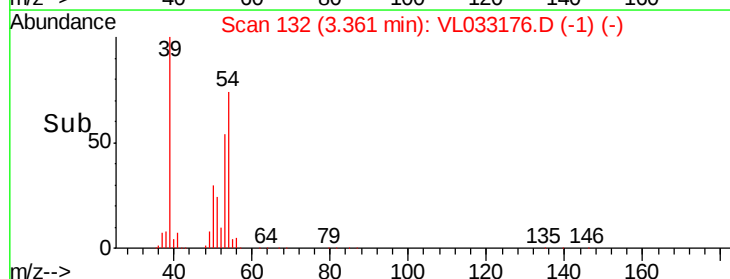
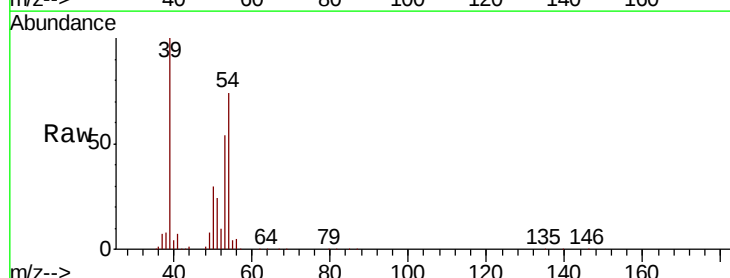
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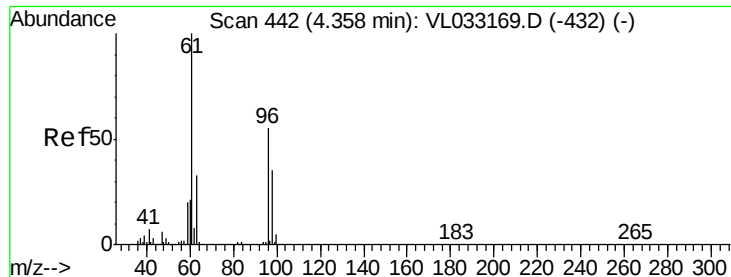
MMDadoda
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#16
1,3-Butadiene
Concen: 9.381 ppbv
RT: 3.36 min Scan# 132
Delta R.T. -0.00 min
Lab File: VL033176.D
Acq: 6 Feb 2019 6:59

Tgt Ion: 39 Resp: 533281
Ion Ratio Lower Upper
39 100
54 91.4 71.3 106.9





#17

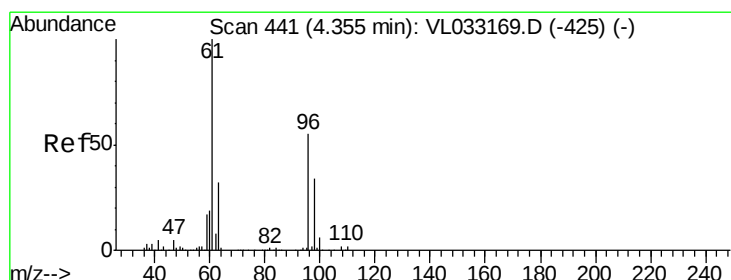
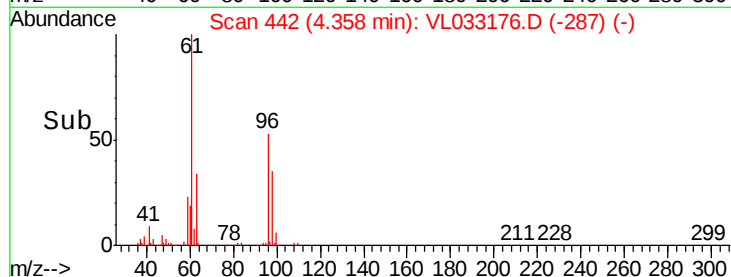
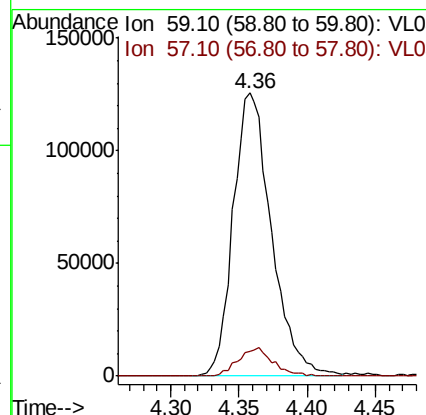
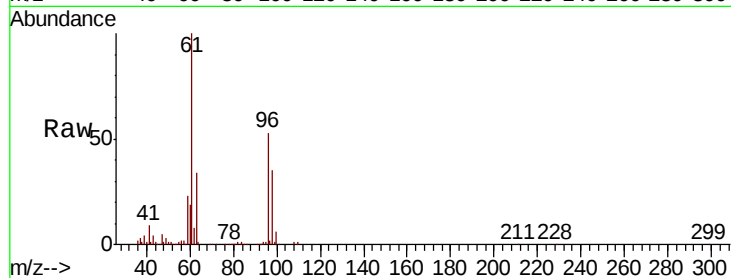
tert-Butyl alcohol
Concen: 10.629 ppbv
RT: 4.36 min Scan# 442
Delta R.T. -0.00 min
Lab File: VL033176.D
Acq: 6 Feb 2019 6:59

Instrument :
MSVOA_L
ClientSampleId :
ICVVL020519

Tgt Ion: 59 Resp: 244525
Ion Ratio Lower Upper
59 100
57 9.3 7.6 11.4

Manual Integrations
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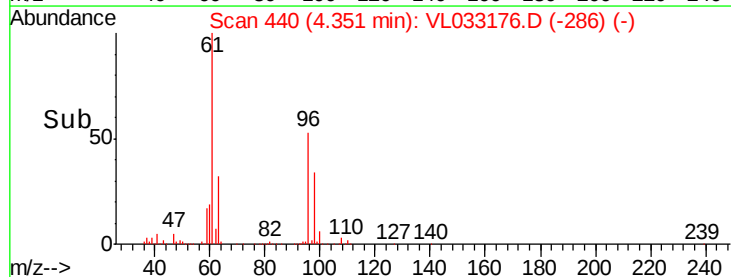
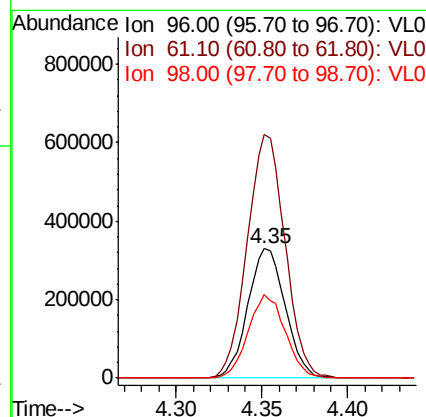
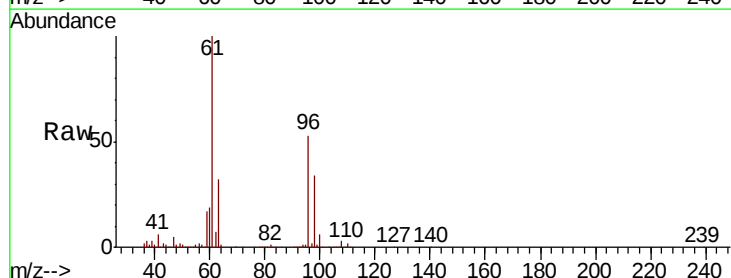
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2/20/2019 12:21:38 PM

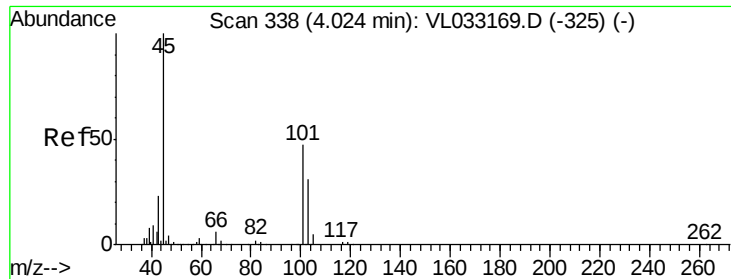


#18

1,1-Dichloroethene
Concen: 9.783 ppbv
RT: 4.35 min Scan# 440
Delta R.T. -0.00 min
Lab File: VL033176.D
Acq: 6 Feb 2019 6:59

Tgt Ion: 96 Resp: 499362
Ion Ratio Lower Upper
96 100
61 188.1 145.0 217.6
98 64.8 50.0 75.0





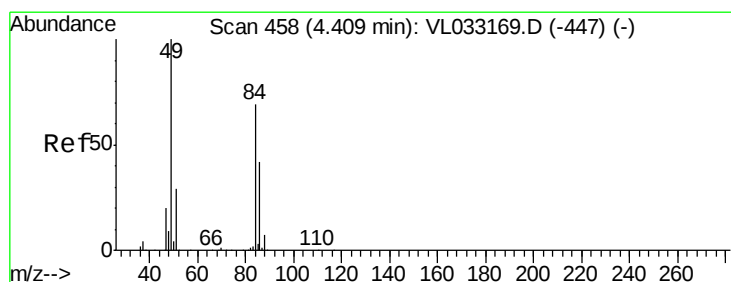
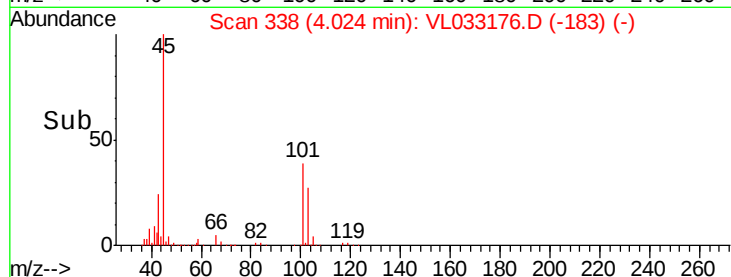
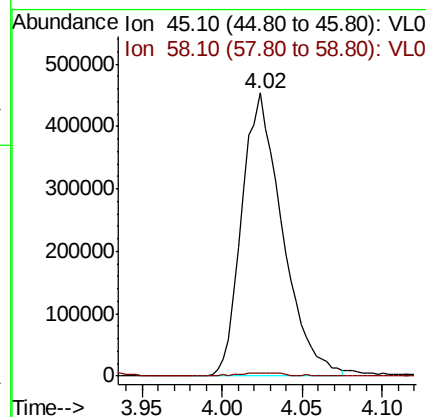
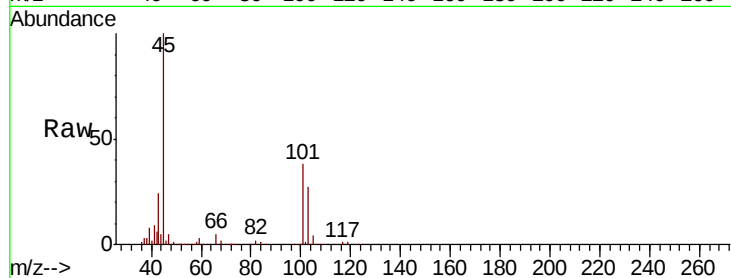
#19
Isopropyl Alcohol
Concen: 9.695 ppbv
RT: 4.02 min Scan# 338
Delta R.T. -0.00 min
Lab File: VL033176.D
Acq: 6 Feb 2019 6:59

Instrument :
MSVOA_L
ClientSampleId :
ICVVL020519

Tgt Ion: 45 Resp: 787432
Ion Ratio Lower Upper
45 100
58 1.6 1.5 2.3

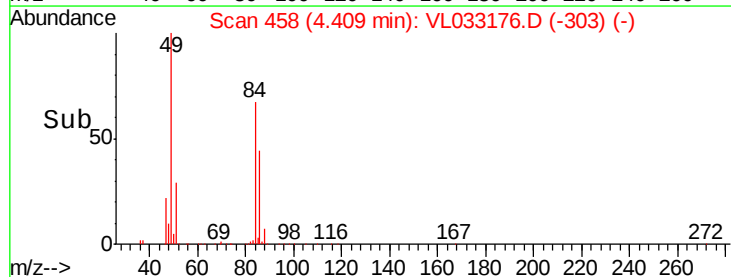
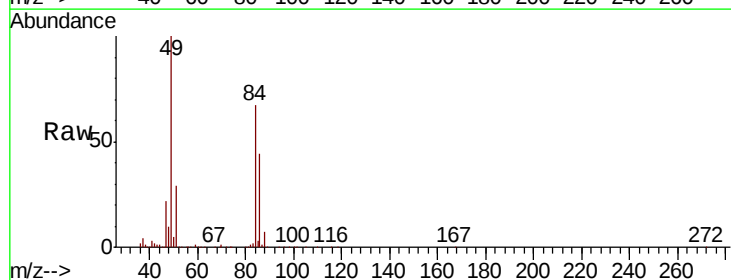
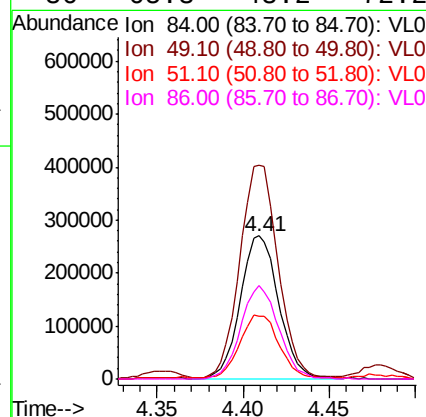
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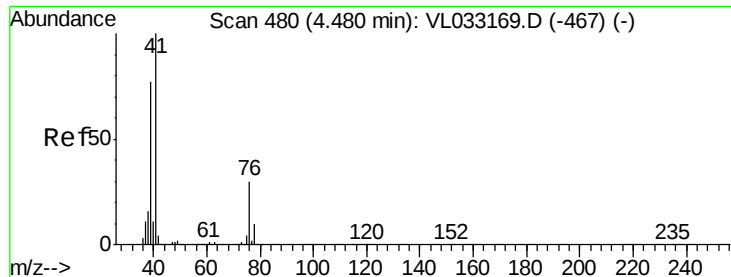
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#20
Methylene Chloride
Concen: 8.765 ppbv
RT: 4.41 min Scan# 458
Delta R.T. -0.00 min
Lab File: VL033176.D
Acq: 6 Feb 2019 6:59

Tgt Ion: 84 Resp: 417548
Ion Ratio Lower Upper
84 100
49 148.7 115.8 173.8
51 43.1 33.0 49.6
86 65.3 48.2 72.2





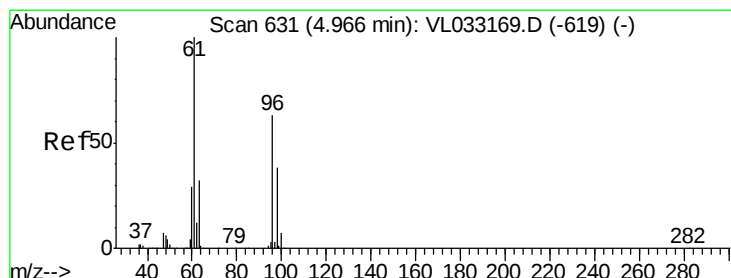
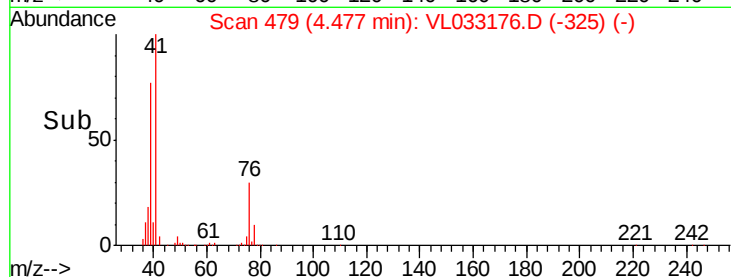
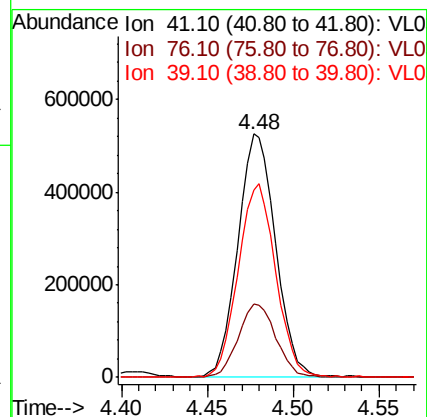
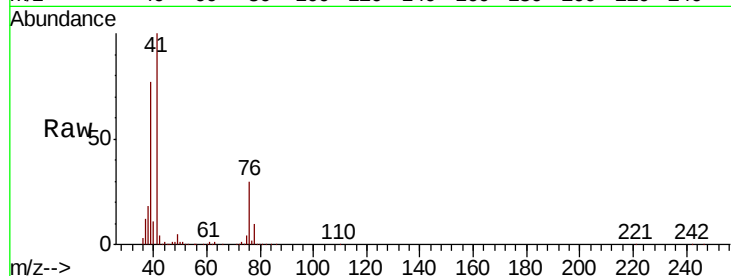
#21
 Allyl Chloride
 Concen: 10.037 ppbv
 RT: 4.48 min Scan# 479
 Delta R.T. -0.00 min
 Lab File: VL033176.D
 Acq: 6 Feb 2019 6:59

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL020519

Tgt Ion	Ratio	Lower	Upper
41	100		
76	30.4	24.5	36.7
39	79.7	64.1	96.1

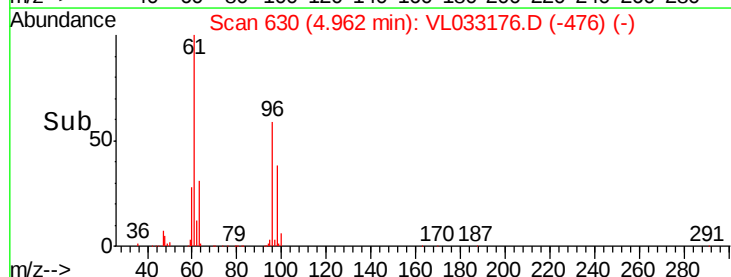
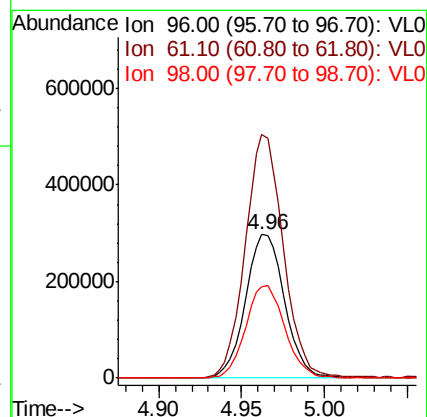
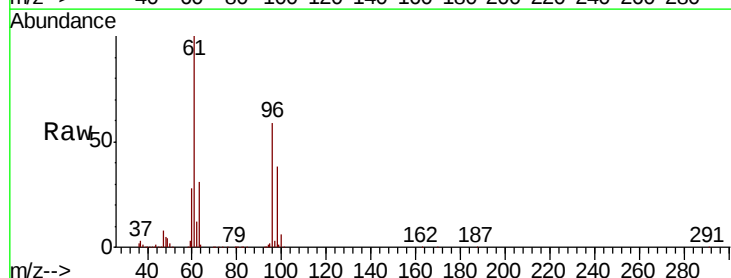
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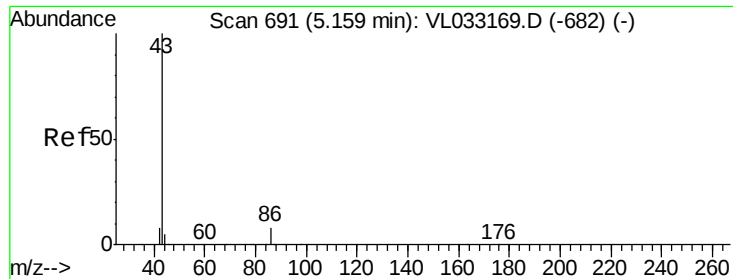
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#22
 trans-1,2-Dichloroethene
 Concen: 9.813 ppbv
 RT: 4.96 min Scan# 630
 Delta R.T. -0.00 min
 Lab File: VL033176.D
 Acq: 6 Feb 2019 6:59

Tgt Ion	Ratio	Lower	Upper
96	100		
61	169.3	126.4	189.6
98	63.6	48.4	72.6





#23

Vinyl Acetate

Concen: 9.918 ppbv

RT: 5.16 min Scan# 690

Delta R.T. -0.00 min

Lab File: VL033176.D

Acq: 6 Feb 2019 6:59

Instrument :

MSVOA_L

ClientSampleId :

ICVVL020519

Tgt Ion: 43 Resp: 2058666

Ion Ratio Lower Upper

43 100

86 7.1 5.8 8.8

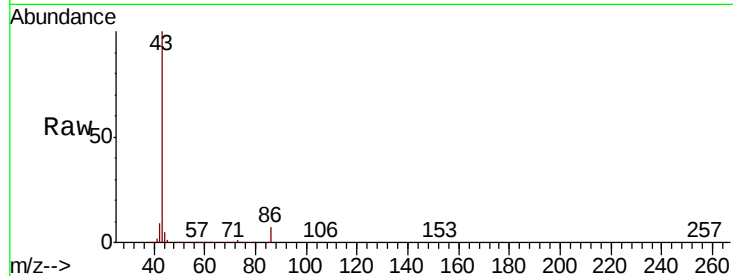
42 8.9 7.4 11.0

44 5.1 3.7 5.5

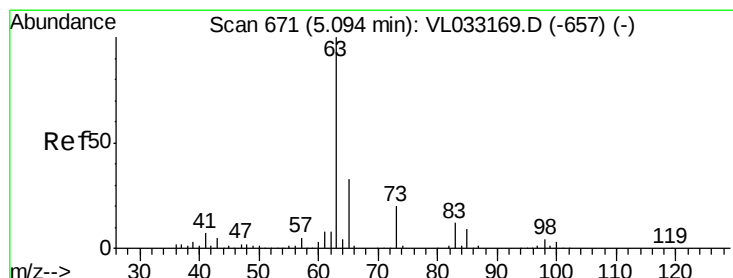
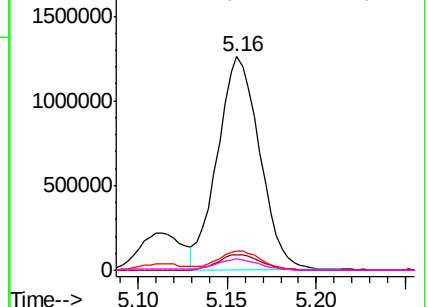
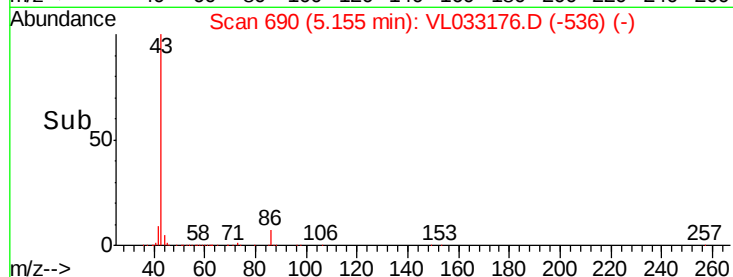
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Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 86.10 (85.80 to 86.80): VL0
Ion 42.10 (41.80 to 42.80): VL0
Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 9.518 ppbv

RT: 5.09 min Scan# 671

Delta R.T. -0.00 min

Lab File: VL033176.D

Acq: 6 Feb 2019 6:59

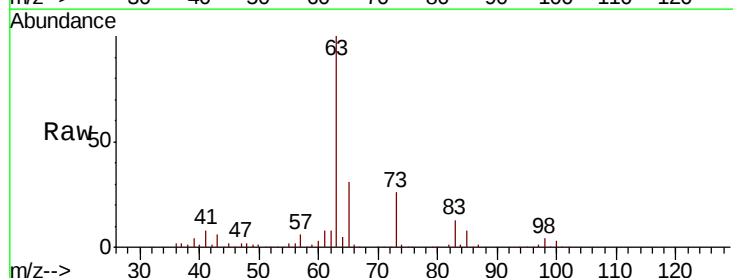
Tgt Ion: 63 Resp: 1397346

Ion Ratio Lower Upper

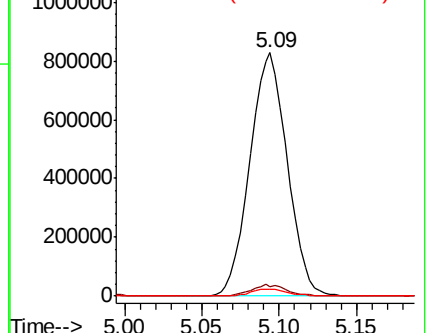
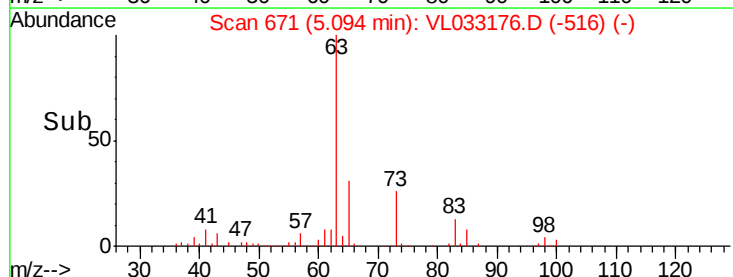
63 100

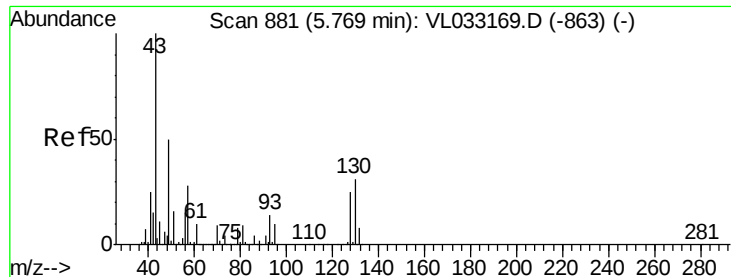
98 4.0 2.1 6.5

100 2.6 1.4 4.2



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





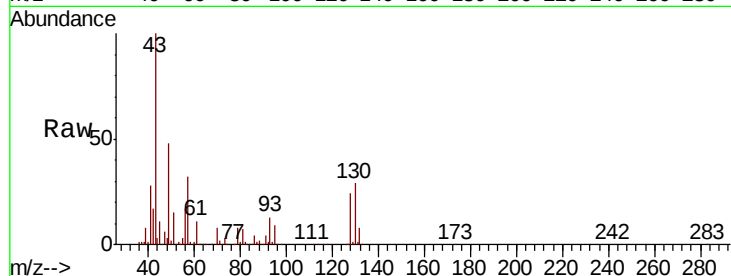
#25
Ethyl Acetate
Concen: 8.850 ppbv
RT: 5.77 min Scan# 881
Delta R.T. -0.00 min
Lab File: VL033176.D
Acq: 6 Feb 2019 6:59

Instrument :
MSVOA_L
ClientSampleId :
ICVVL020519

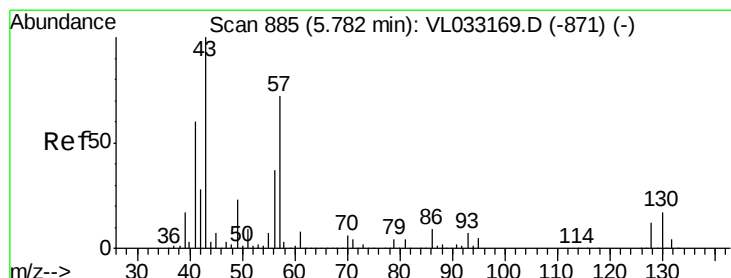
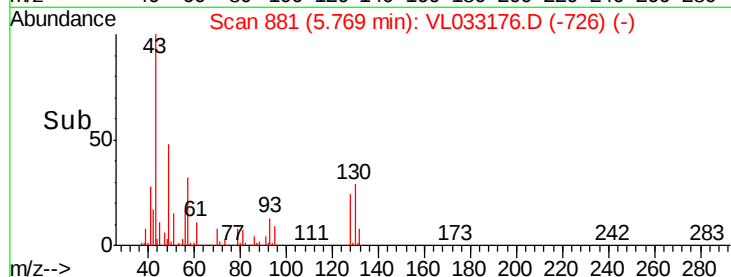
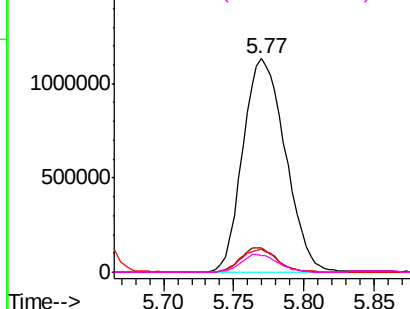
Tgt Ion	Ratio	Lower	Upper
43	100		
45	10.0	7.9	11.9
61	9.5	7.5	11.3
70	7.3	5.8	8.8

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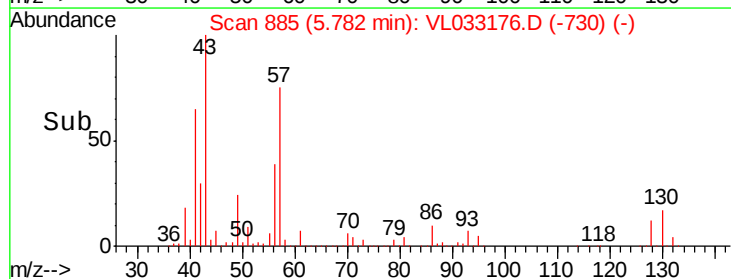
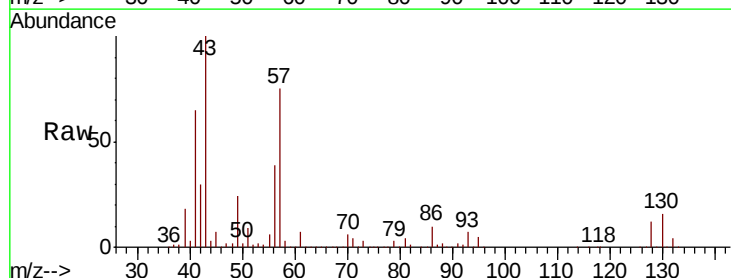
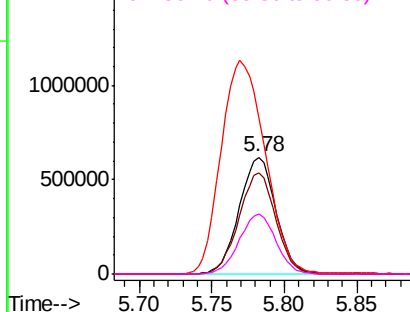
Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 45.10 (44.80 to 45.80): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 70.10 (69.80 to 70.80): VL0

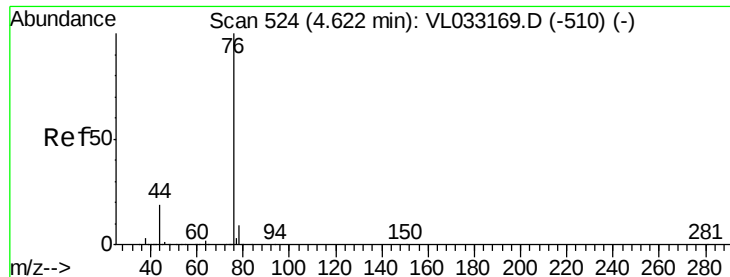


#26
Hexane
Concen: 8.592 ppbv
RT: 5.78 min Scan# 885
Delta R.T. -0.00 min
Lab File: VL033176.D
Acq: 6 Feb 2019 6:59

Tgt Ion	Ratio	Lower	Upper
57	100		
41	87.3	69.4	104.2
43	220.8	176.7	265.1
56	51.5	41.4	62.0

Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0





#27

Carbon Disulfide

Concen: 10.406 ppbv

RT: 4.62 min Scan# 524

Delta R.T. -0.00 min

Lab File: VL033176.D

Acq: 6 Feb 2019 6:59

Instrument :

MSVOA_L

ClientSampleId :

ICVVL020519

Tgt Ion: 76 Resp: 1204996

Ion Ratio Lower Upper

76 100

44 19.2 15.0 22.4

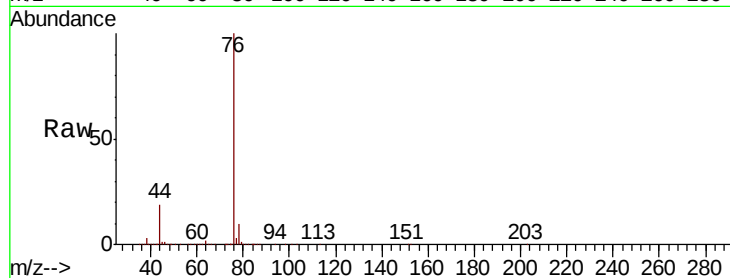
78 9.4 7.4 11.0

Manual Integrations

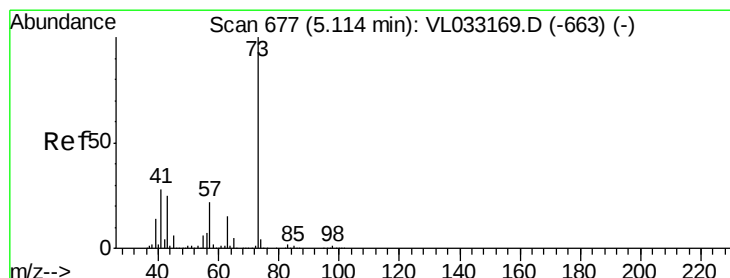
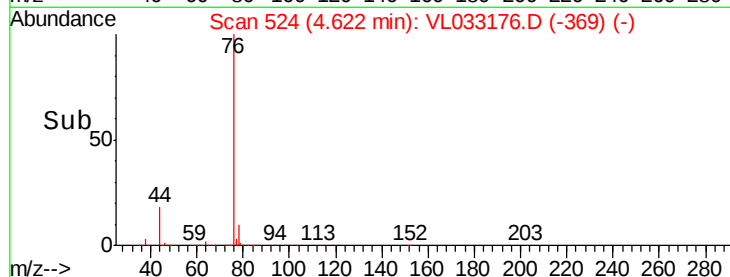
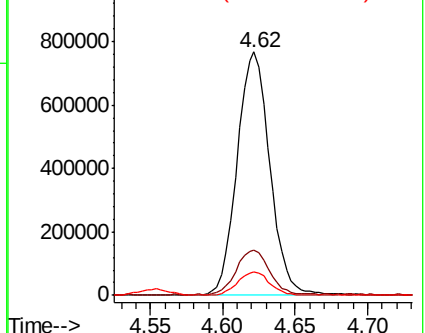
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Abundance Ion 76.00 (75.70 to 76.70): VL0
Ion 44.10 (43.80 to 44.80): VL0
Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 9.628 ppbv

RT: 5.11 min Scan# 677

Delta R.T. -0.00 min

Lab File: VL033176.D

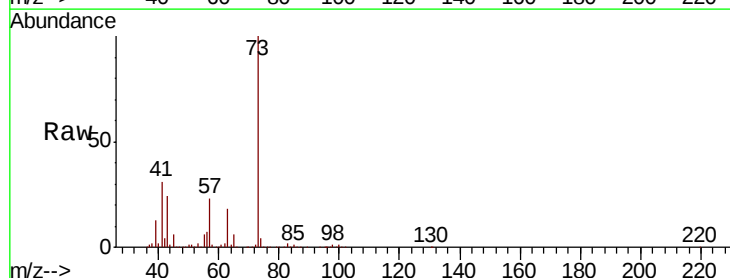
Acq: 6 Feb 2019 6:59

Tgt Ion: 73 Resp: 1663051

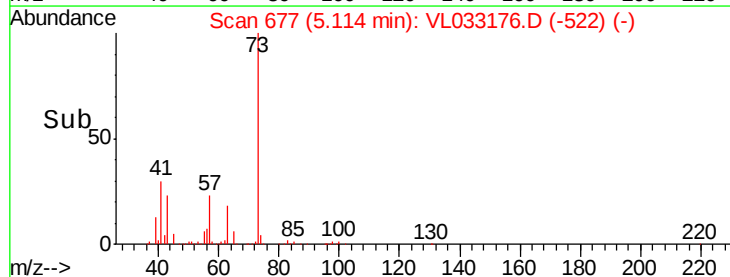
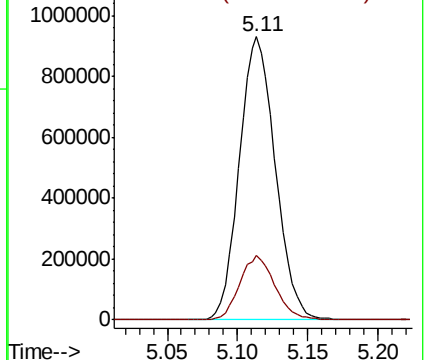
Ion Ratio Lower Upper

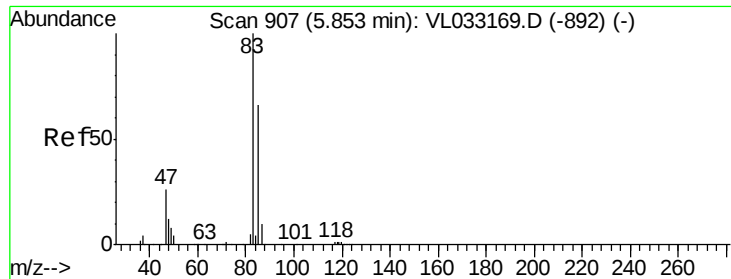
73 100

57 22.4 17.9 26.9



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





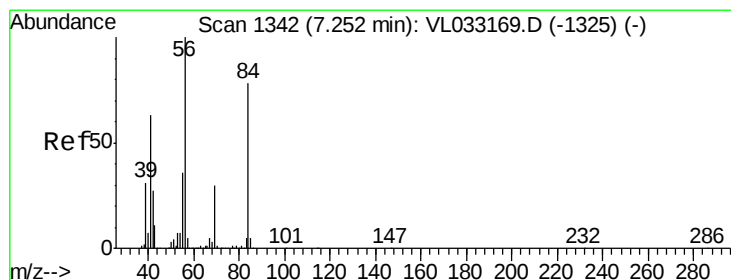
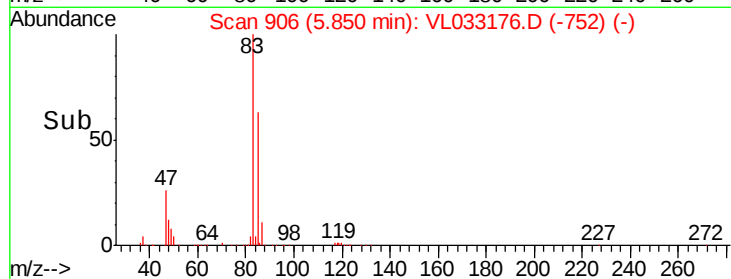
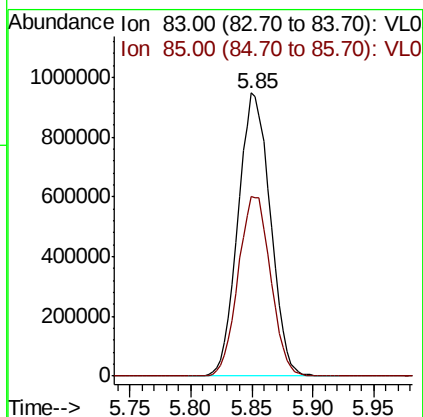
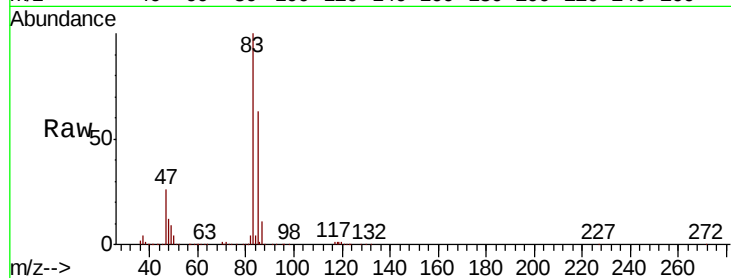
#29
Chloroform
Concen: 8.943 ppbv
RT: 5.85 min Scan# 906
Delta R.T. -0.00 min
Lab File: VL033176.D
Acq: 6 Feb 2019 6:59

Instrument :
MSVOA_L
ClientSampleId :
ICVVL020519

Tgt Ion: 83 Resp: 1732326
Ion Ratio Lower Upper
83 100
85 63.3 52.6 78.8

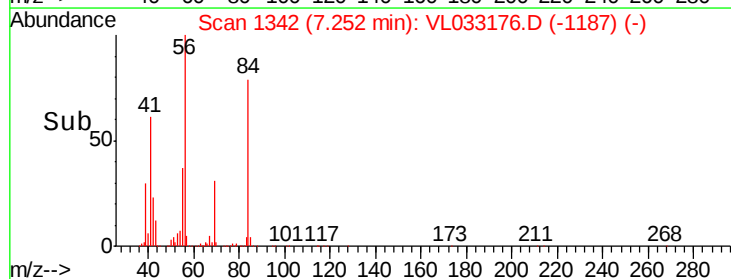
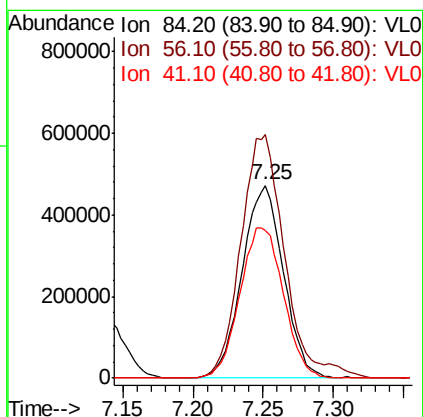
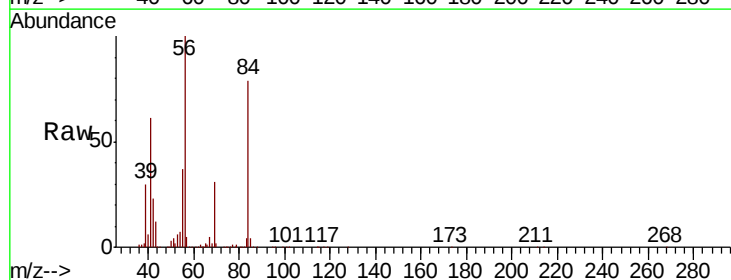
Manual Integrations
APPROVED

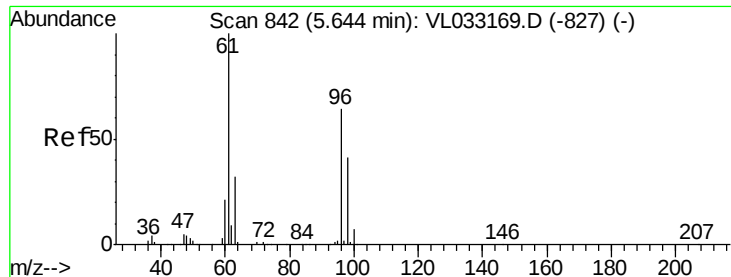
MMDadoda
2/20/2019 12:21:38 PM



#30
Cyclohexane
Concen: 8.217 ppbv
RT: 7.25 min Scan# 1342
Delta R.T. -0.00 min
Lab File: VL033176.D
Acq: 6 Feb 2019 6:59

Tgt Ion: 84 Resp: 963758
Ion Ratio Lower Upper
84 100
56 135.2 109.5 164.3
41 82.6 66.6 100.0





#31

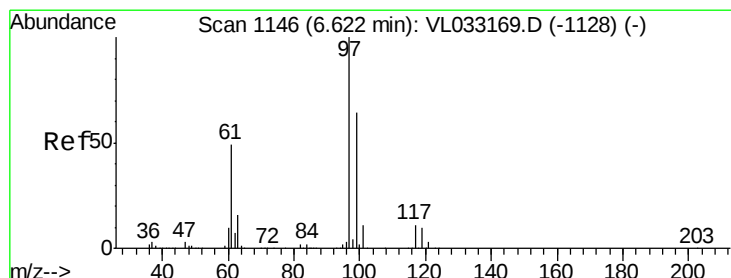
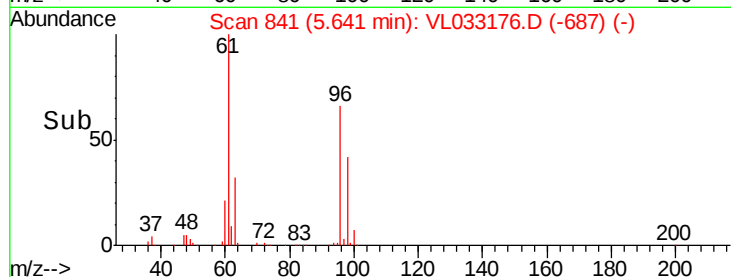
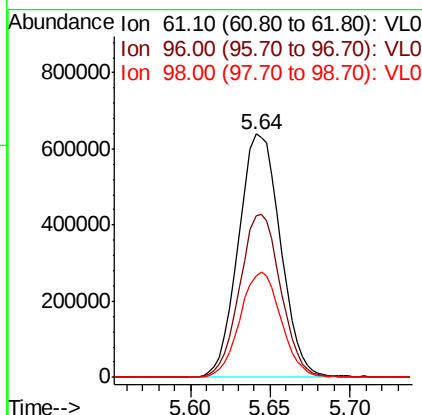
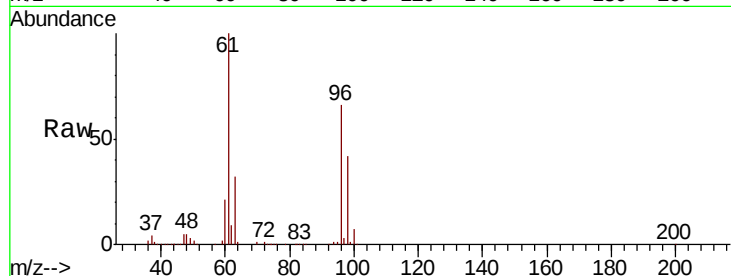
cis-1,2-Dichloroethene
 Concen: 9.050 ppbv
 RT: 5.64 min Scan# 841
 Delta R.T. -0.00 min
 Lab File: VL033176.D
 Acq: 6 Feb 2019 6:59

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL020519

Tgt Ion	Ratio	Lower	Upper
61	100		
96	66.2	51.2	76.8
98	41.8	32.8	49.2

Manual Integrations
 APPROVED

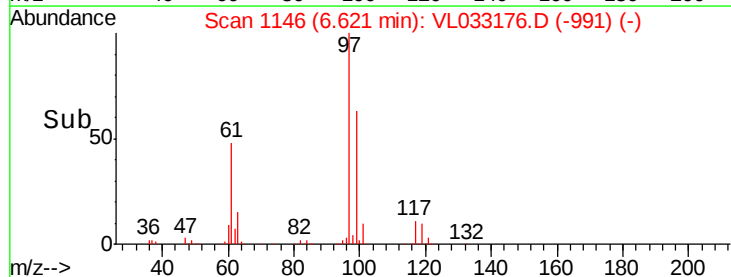
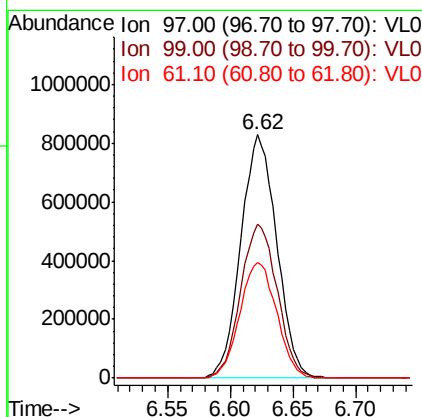
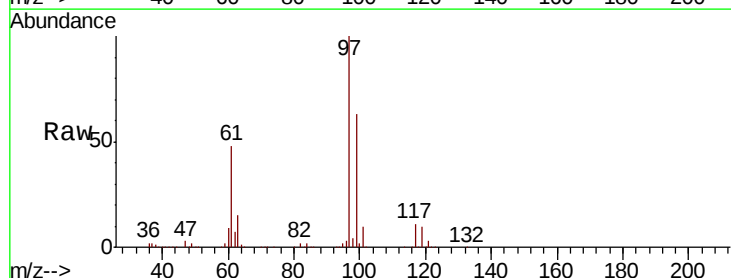
MMDadoda
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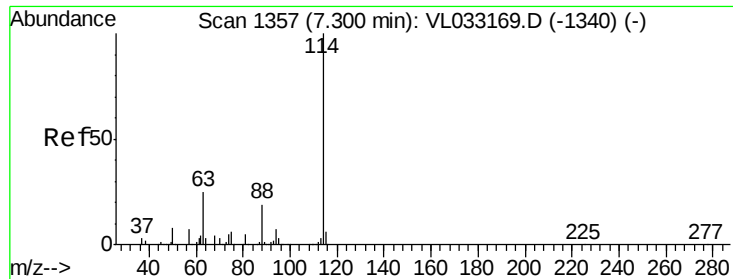


#32

1,1,1-Trichloroethane
 Concen: 7.748 ppbv
 RT: 6.62 min Scan# 1146
 Delta R.T. -0.00 min
 Lab File: VL033176.D
 Acq: 6 Feb 2019 6:59

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.4	51.4	77.2
61	48.9	38.8	58.2





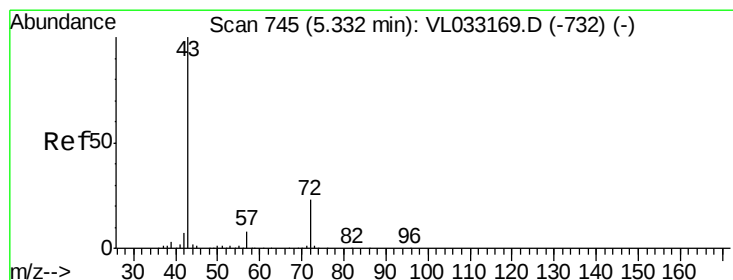
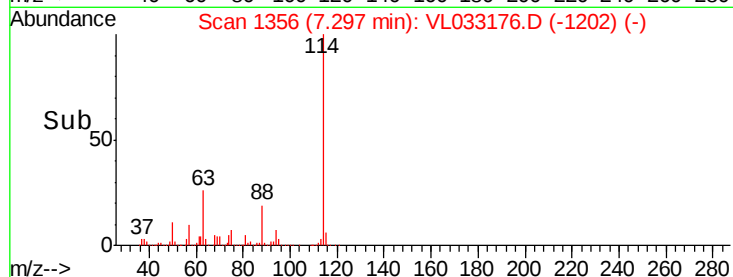
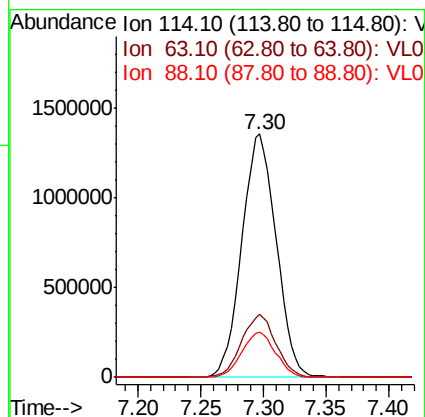
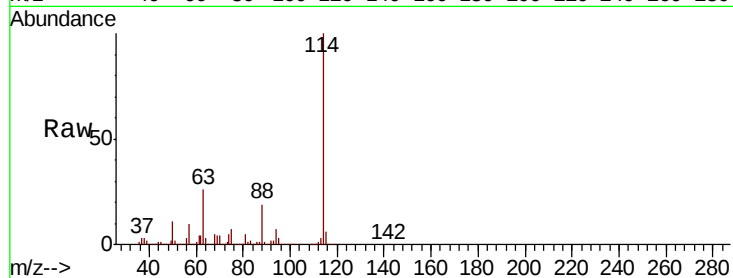
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.30 min Scan# 1356
 Delta R.T. -0.00 min
 Lab File: VL033176.D
 Acq: 6 Feb 2019 6:59

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL020519

Tgt Ion: 114 Resp: 2588802
 Ion Ratio Lower Upper
 114 100
 63 26.2 20.8 31.2
 88 18.3 14.6 22.0

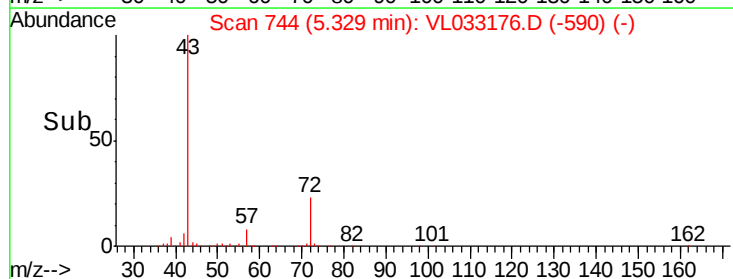
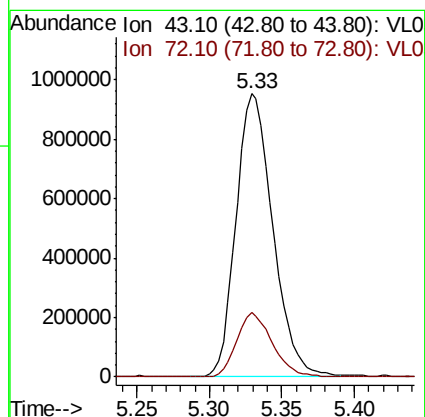
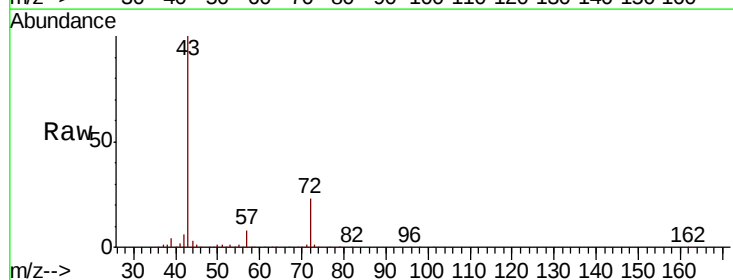
Manual Integrations
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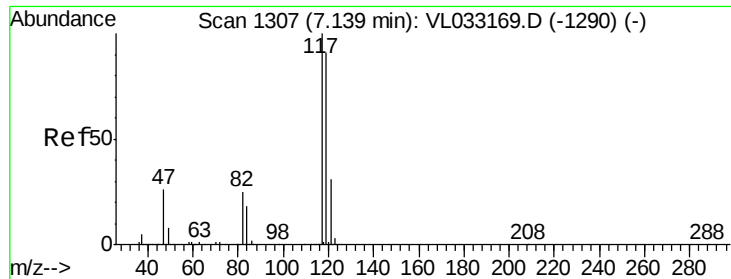
MMDadoda
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#34
 2-Butanone
 Concen: 10.172 ppbv
 RT: 5.33 min Scan# 744
 Delta R.T. -0.00 min
 Lab File: VL033176.D
 Acq: 6 Feb 2019 6:59

Tgt Ion: 43 Resp: 1670375
 Ion Ratio Lower Upper
 43 100
 72 22.3 17.8 26.6





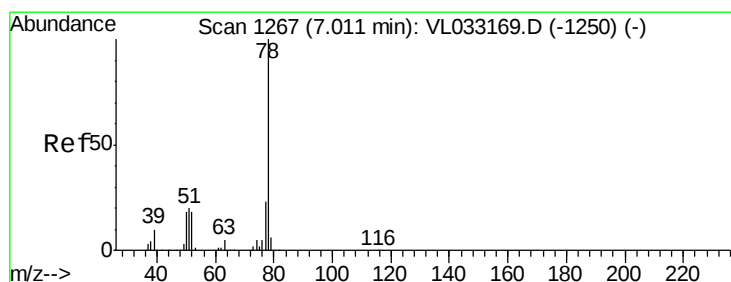
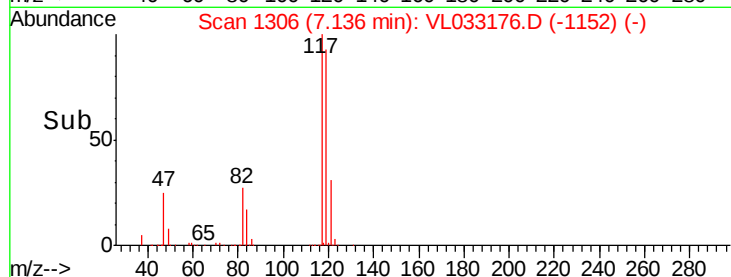
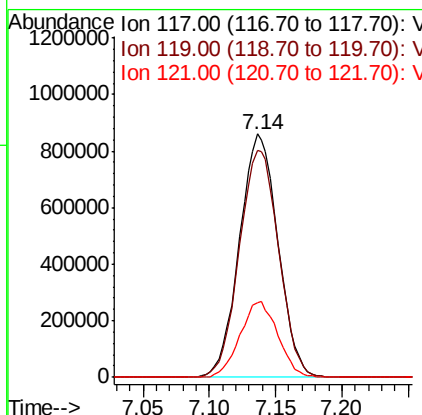
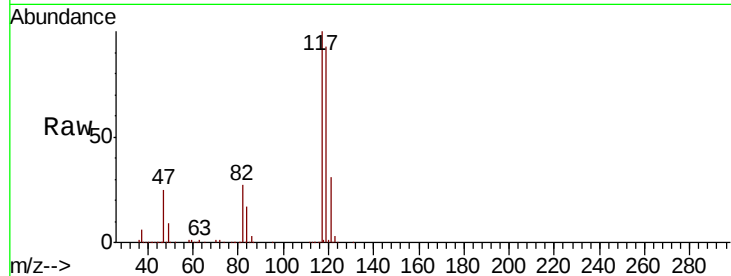
#35
Carbon Tetrachloride
Concen: 8.794 ppbv
RT: 7.14 min Scan# 1306
Delta R.T. -0.00 min
Lab File: VL033176.D
Acq: 6 Feb 2019 6:59

Instrument :
MSVOA_L
ClientSampleId :
ICVVL020519

Tgt Ion: 117 Resp: 1738635
Ion Ratio Lower Upper
117 100
119 93.1 73.0 109.6
121 30.8 25.1 37.7

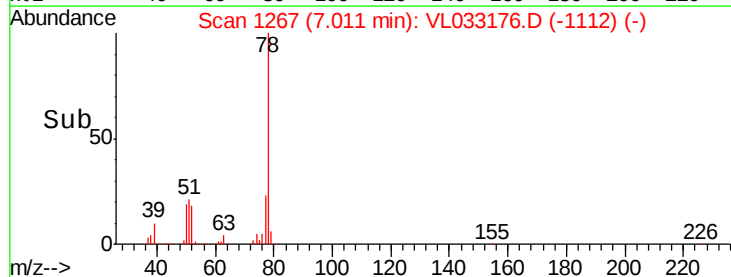
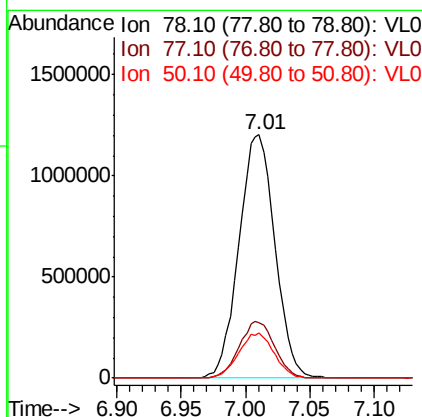
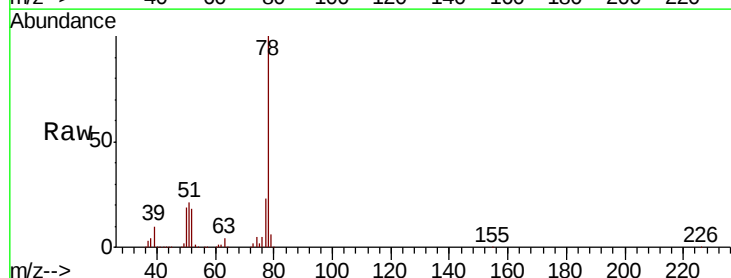
Manual Integrations
APPROVED

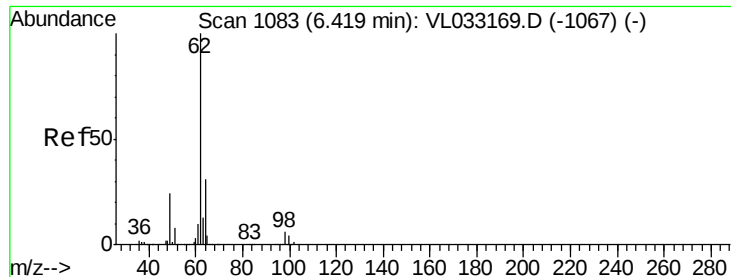
MMDadoda
2/20/2019 12:21:38 PM



#36
Benzene
Concen: 8.883 ppbv
RT: 7.01 min Scan# 1267
Delta R.T. -0.00 min
Lab File: VL033176.D
Acq: 6 Feb 2019 6:59

Tgt Ion: 78 Resp: 2330658
Ion Ratio Lower Upper
78 100
77 22.5 18.0 27.0
50 18.6 14.2 21.2





#37

1,2-Dichloroethane

Concen: 9.132 ppbv

RT: 6.42 min Scan# 1082

Delta R.T. -0.00 min

Lab File: VL033176.D

Acq: 6 Feb 2019 6:59

Instrument :

MSVOA_L

ClientSampleId :

ICVVL020519

Tgt Ion: 62 Resp: 1327815

Ion Ratio Lower Upper

62 100

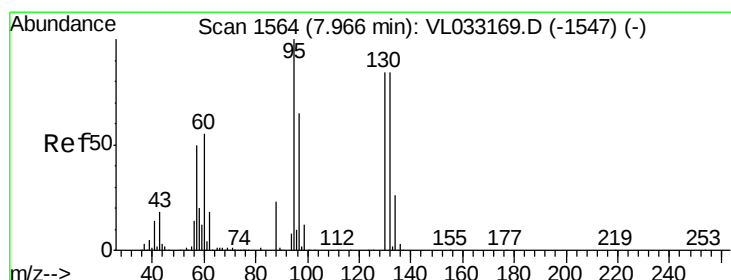
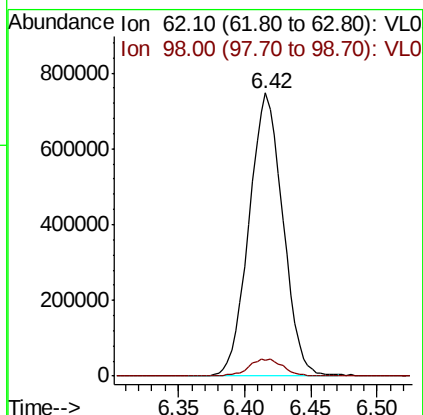
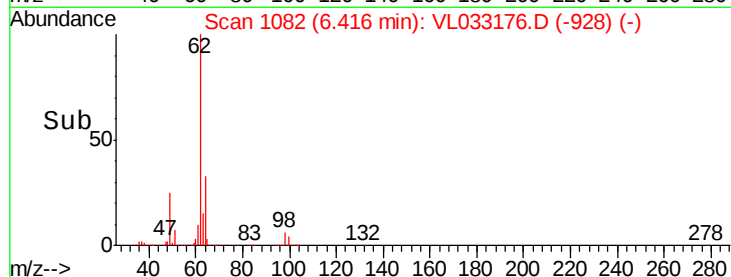
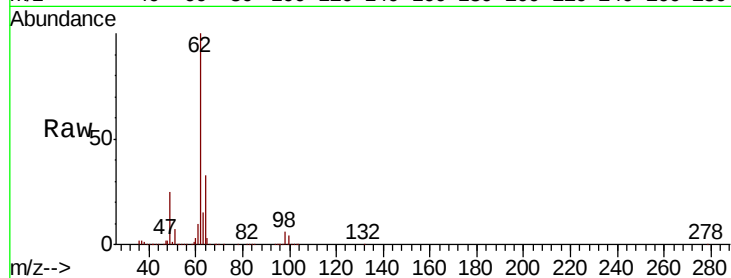
98 6.2 4.7 7.1

Manual Integrations

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2/20/2019 12:21:38 PM



#38

Trichloroethene

Concen: 7.587 ppbv

RT: 7.97 min Scan# 1564

Delta R.T. -0.00 min

Lab File: VL033176.D

Acq: 6 Feb 2019 6:59

Tgt Ion: 130 Resp: 850665

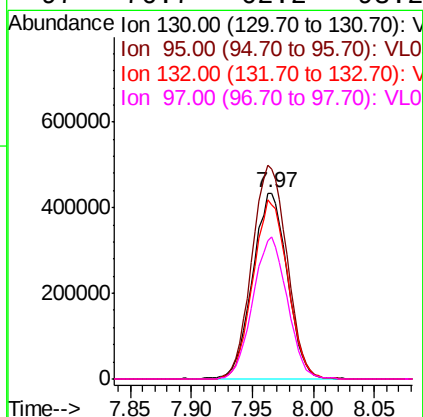
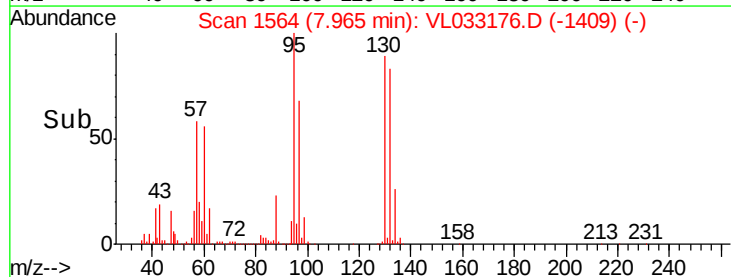
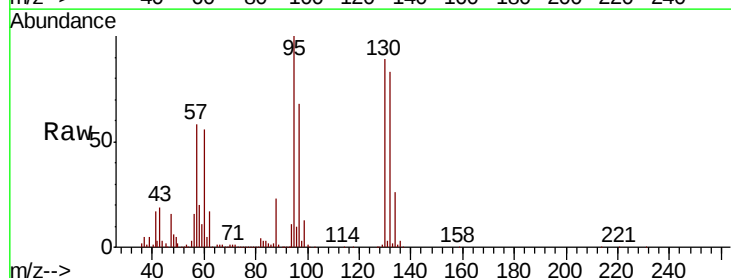
Ion Ratio Lower Upper

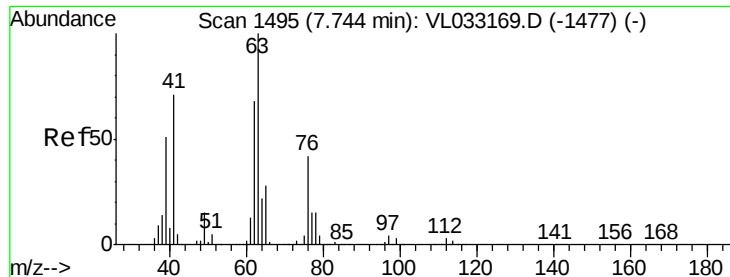
130 100

95 112.6 95.5 143.3

132 93.3 80.0 120.0

97 76.7 62.2 93.2





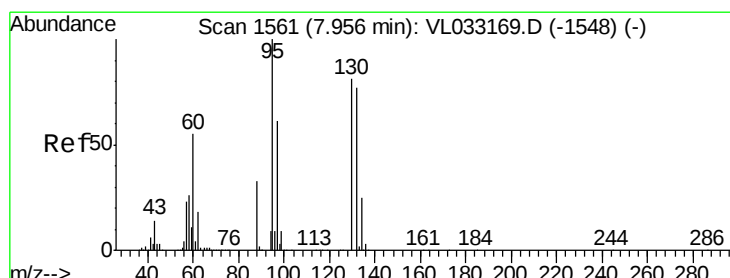
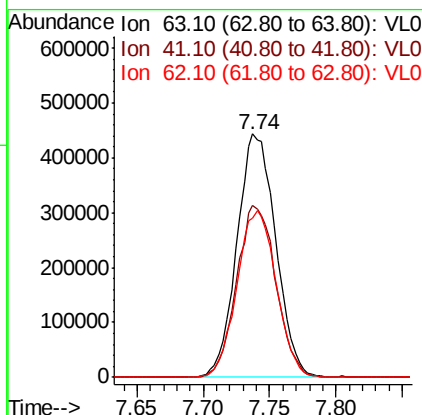
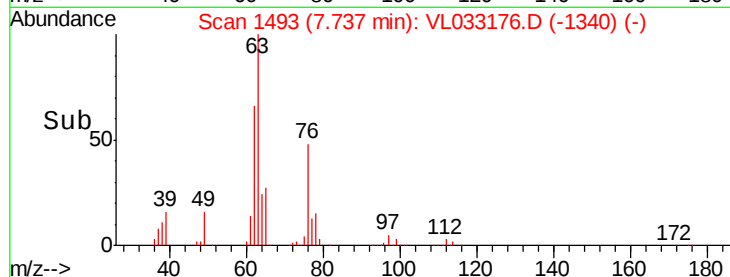
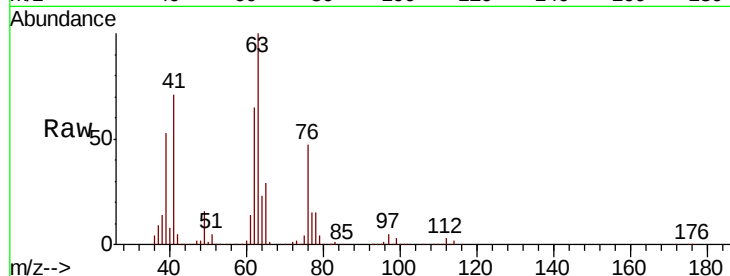
#39
 1,2-Dichloropropane
 Concen: 8.713 ppbv
 RT: 7.74 min Scan# 1493
 Delta R.T. -0.01 min
 Lab File: VL033176.D
 Acq: 6 Feb 2019 6:59

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL020519

Tgt Ion	Ratio	Lower	Upper
63	100		
41	70.6	56.4	84.6
62	65.1	54.2	81.4

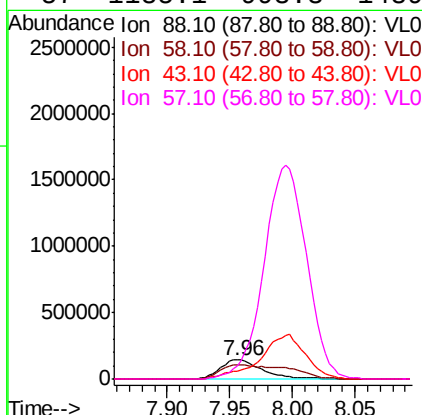
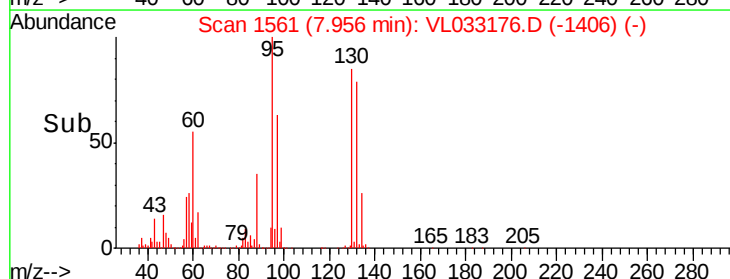
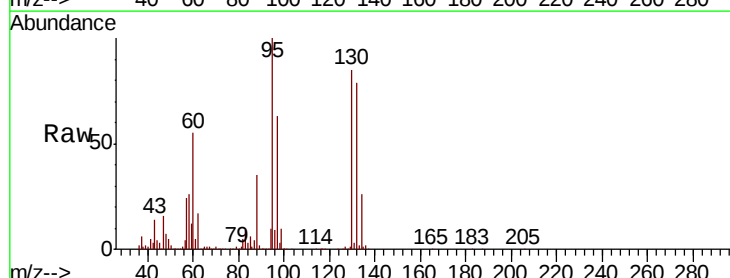
Manual Integrations
 APPROVED

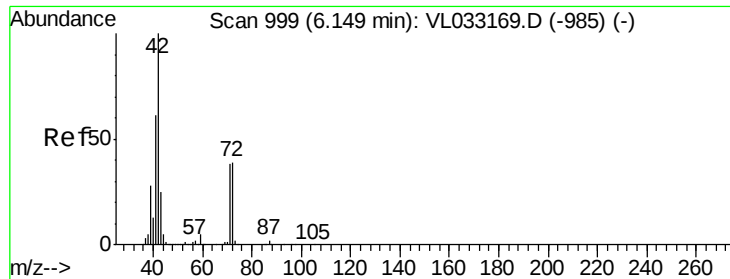
MMDadoda
 2/20/2019 12:21:38 PM



#40
 1,4-Dioxane
 Concen: 8.766 ppbv
 RT: 7.96 min Scan# 1561
 Delta R.T. -0.00 min
 Lab File: VL033176.D
 Acq: 6 Feb 2019 6:59

Tgt Ion	Ratio	Lower	Upper
88	100		
58	130.4	106.4	159.6
43	262.3	219.6	329.4
57	1185.1	993.3	1489.9





#41

Tetrahydrofuran

Concen: 9.351 ppbv

RT: 6.15 min Scan# 998

Delta R.T. -0.00 min

Lab File: VL033176.D

Acq: 6 Feb 2019 6:59

Instrument :

MSVOA_L

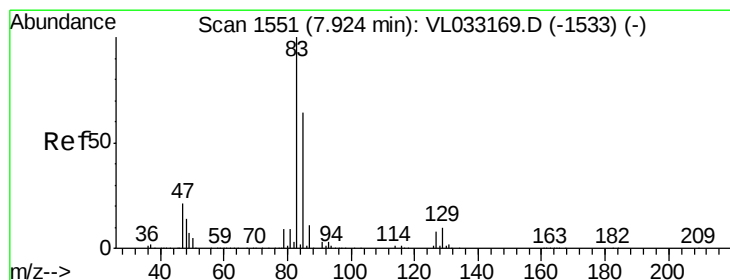
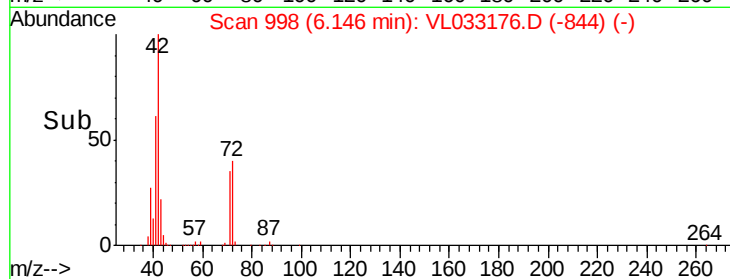
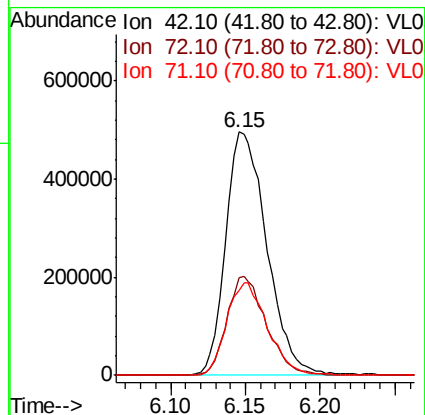
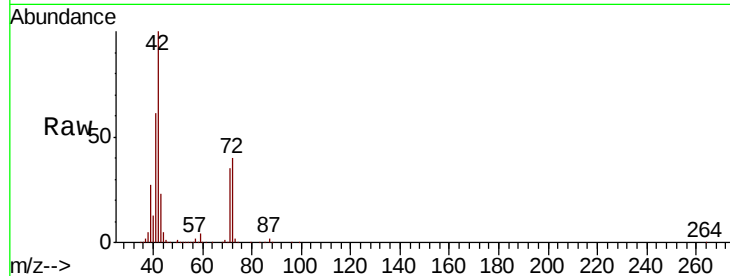
ClientSampleId :

ICVVL020519

Tgt Ion:	42	Resp:	949223
Ion Ratio		Lower	Upper
42	100		
72	39.1	31.4	47.2
71	37.7	30.2	45.2

Manual Integrations
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#42

Bromodichloromethane

Concen: 9.043 ppbv

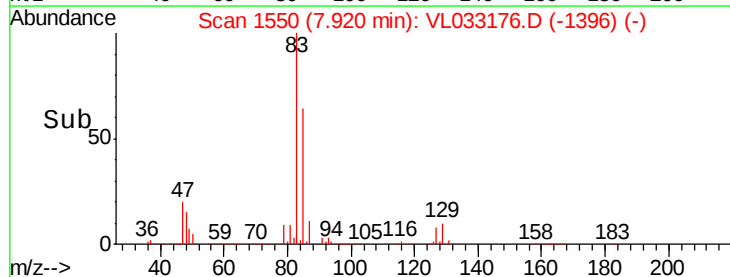
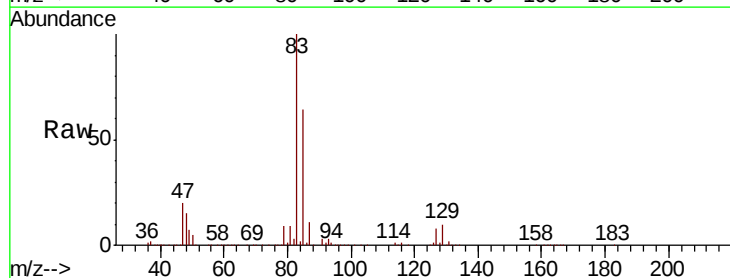
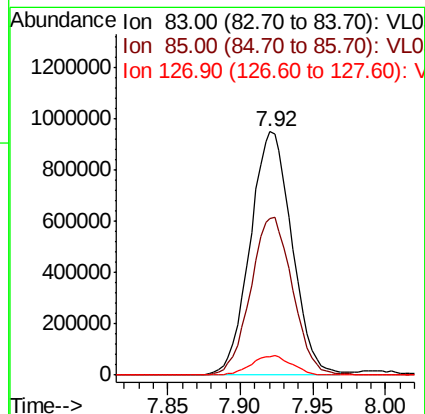
RT: 7.92 min Scan# 1550

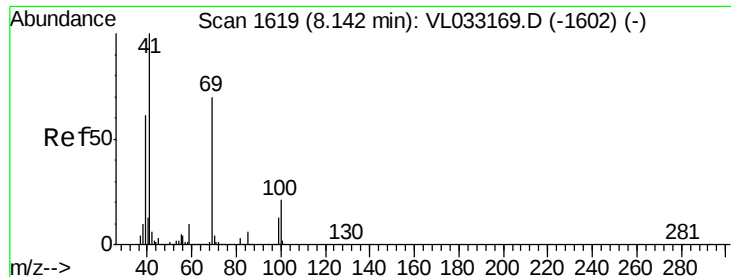
Delta R.T. -0.00 min

Lab File: VL033176.D

Acq: 6 Feb 2019 6:59

Tgt Ion:	83	Resp:	1905432
Ion Ratio		Lower	Upper
83	100		
85	64.3	51.1	76.7
127	7.8	6.4	9.6





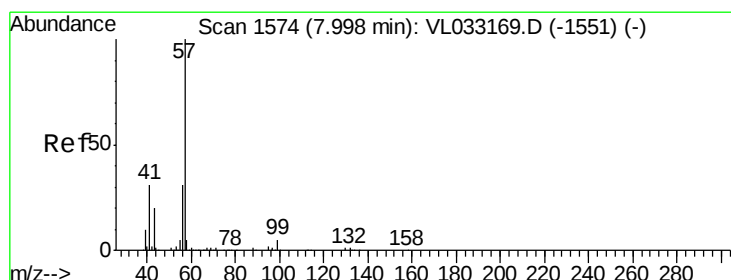
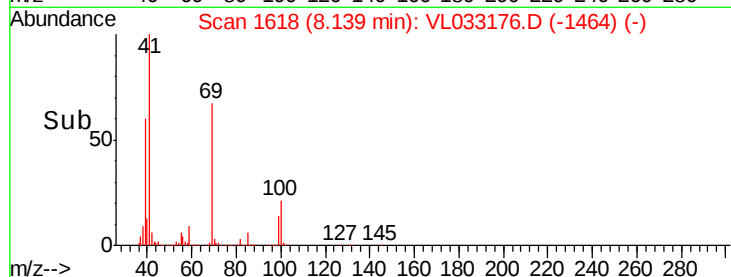
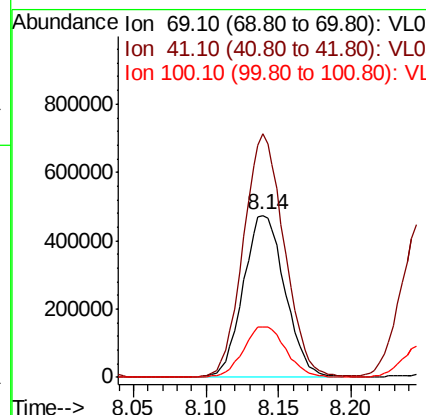
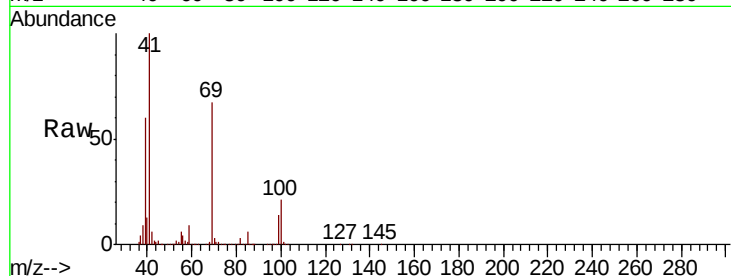
#43
Methyl Methacrylate
Concen: 9.019 ppbv
RT: 8.14 min Scan# 1618
Delta R.T. -0.00 min
Lab File: VL033176.D
Acq: 6 Feb 2019 6:59

Instrument :
MSVOA_L
ClientSampleId :
ICVVL020519

Tgt Ion	Ratio	Lower	Upper
69	100		
41	146.7	117.1	175.7
100	31.7	25.0	37.6

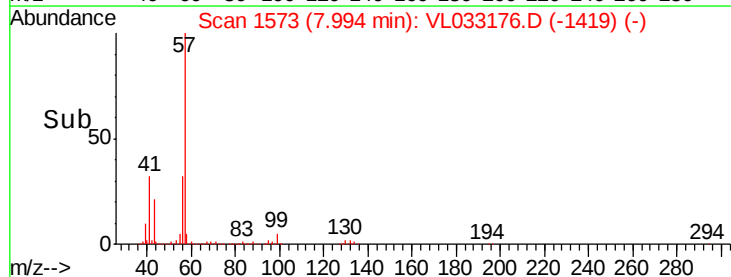
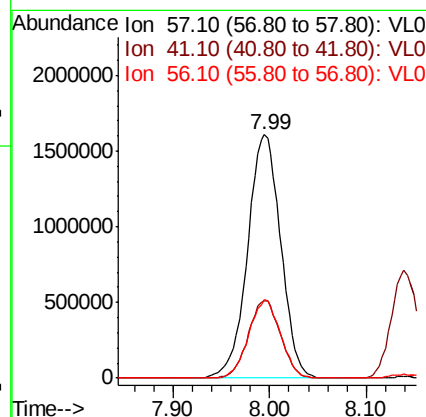
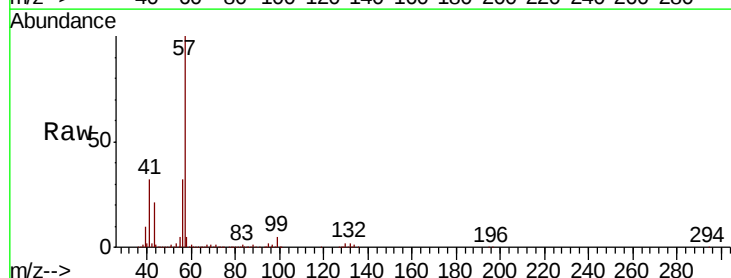
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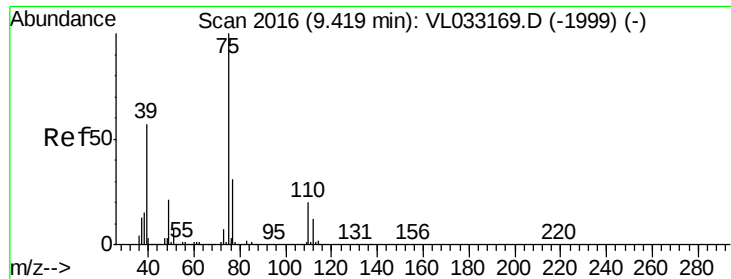
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#44
2,2,4-Trimethylpentane
Concen: 8.590 ppbv
RT: 7.99 min Scan# 1573
Delta R.T. -0.00 min
Lab File: VL033176.D
Acq: 6 Feb 2019 6:59

Tgt Ion	Ratio	Lower	Upper
57	100		
41	31.0	25.2	37.8
56	30.8	24.5	36.7





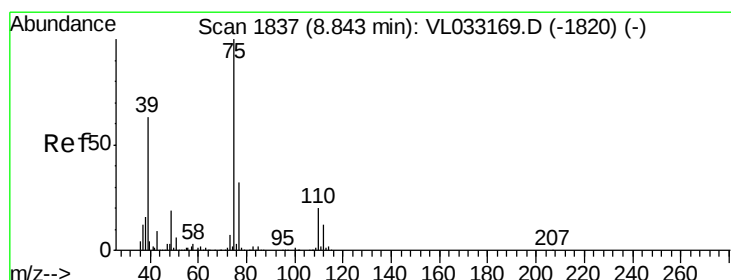
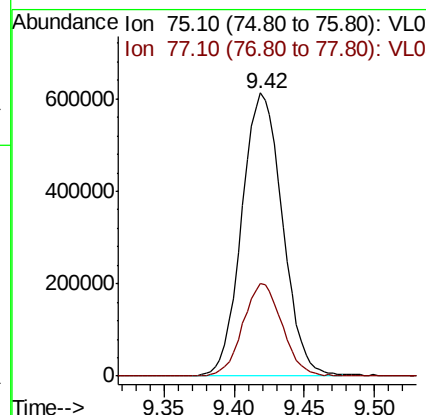
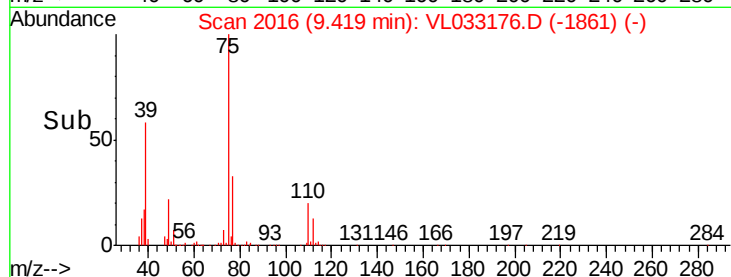
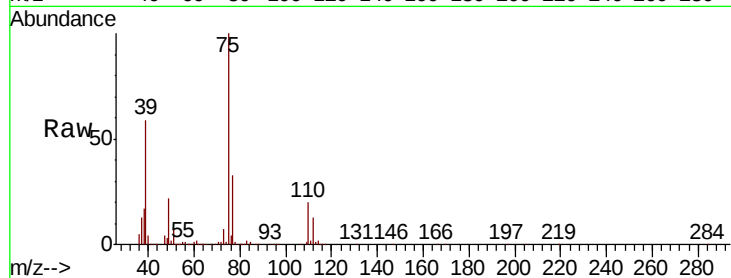
#45
 t-1,3-Dichloropropene
 Concen: 10.614 ppbv
 RT: 9.42 min Scan# 2016
 Delta R.T. -0.00 min
 Lab File: VL033176.D
 Acq: 6 Feb 2019 6:59

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL020519

Tgt Ion: 75 Resp: 1238087
 Ion Ratio Lower Upper
 75 100
 77 32.8 25.0 37.4

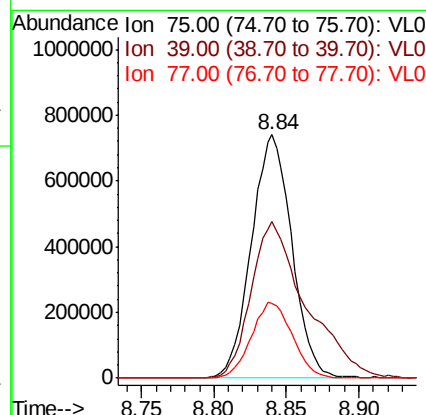
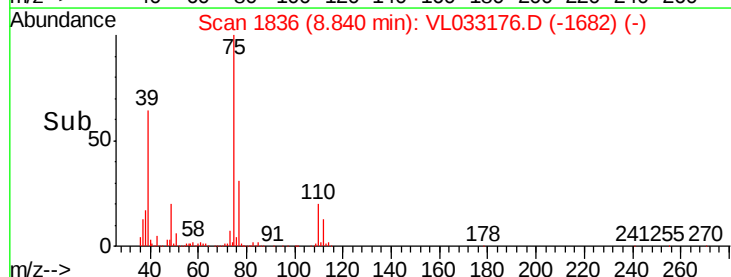
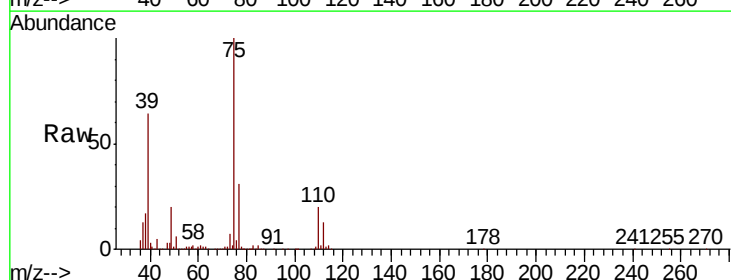
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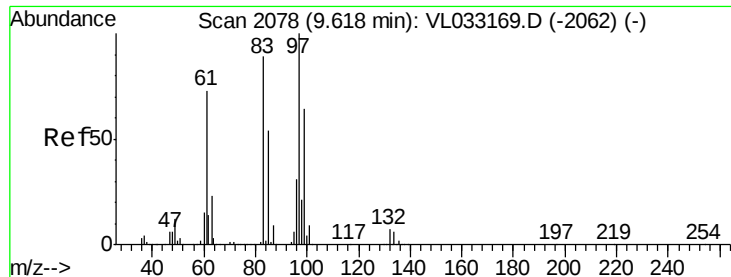
MMDadoda
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#46
 cis-1,3-Dichloropropene
 Concen: 9.619 ppbv
 RT: 8.84 min Scan# 1836
 Delta R.T. -0.00 min
 Lab File: VL033176.D
 Acq: 6 Feb 2019 6:59

Tgt Ion: 75 Resp: 1433707
 Ion Ratio Lower Upper
 75 100
 39 63.9 50.1 75.1
 77 30.8 25.4 38.2





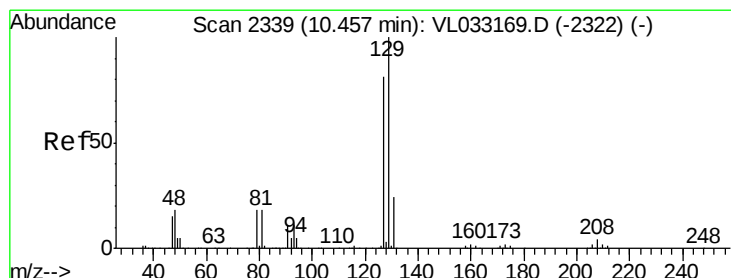
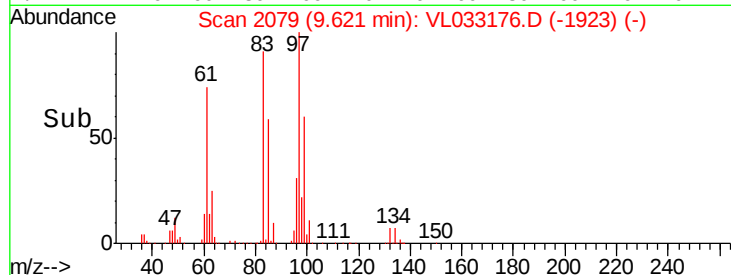
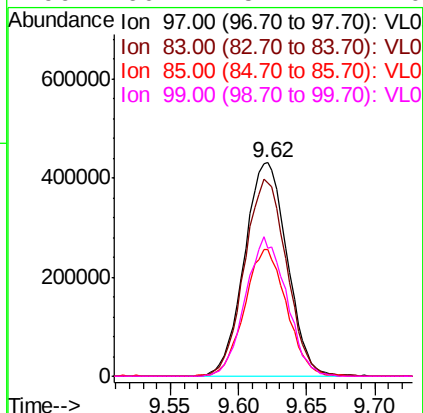
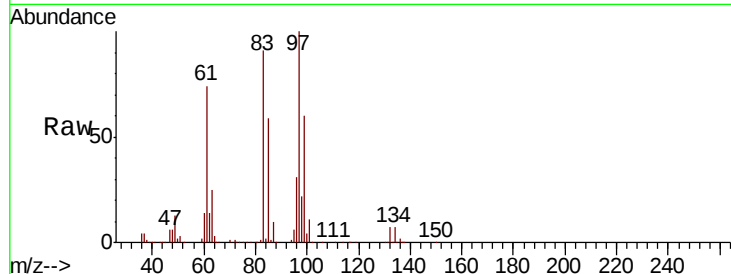
#47
 1,1,2-Trichloroethane
 Concen: 8.736 ppbv
 RT: 9.62 min Scan# 2079
 Delta R.T. 0.00 min
 Lab File: VL033176.D
 Acq: 6 Feb 2019 6:59

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL020519

Tgt Ion	Ratio	Lower	Upper
97	100		
83	90.5	71.4	107.2
85	59.3	43.5	65.3
99	60.1	51.4	77.0

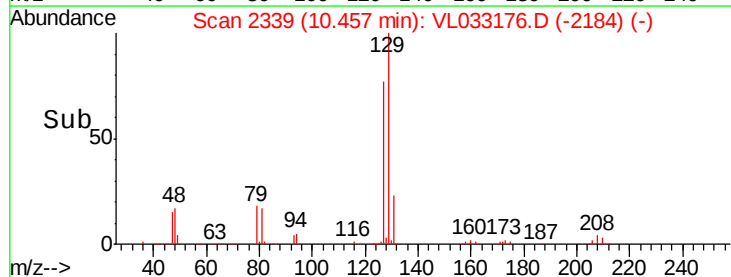
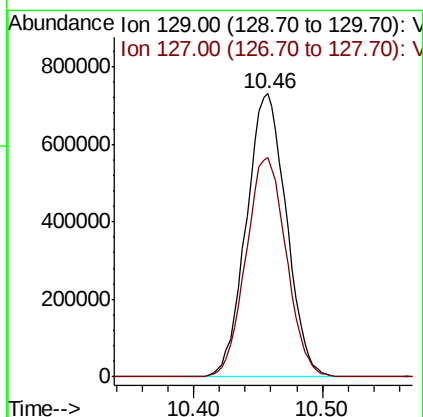
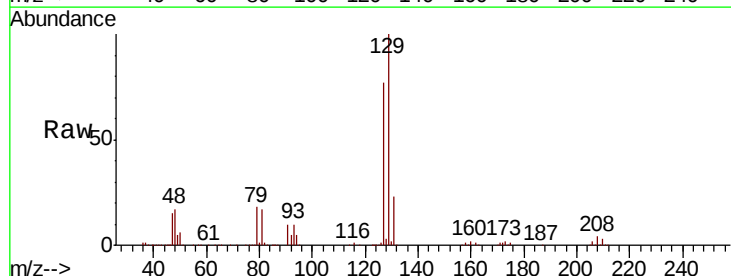
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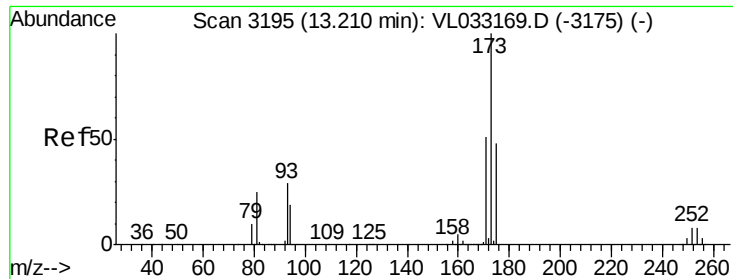
MMDadoda
 2/20/2019 12:21:38 PM



#48
 Dibromochloromethane
 Concen: 9.331 ppbv
 RT: 10.46 min Scan# 2339
 Delta R.T. -0.00 min
 Lab File: VL033176.D
 Acq: 6 Feb 2019 6:59

Tgt Ion	Ratio	Lower	Upper
129	100		
127	78.4	39.1	117.3





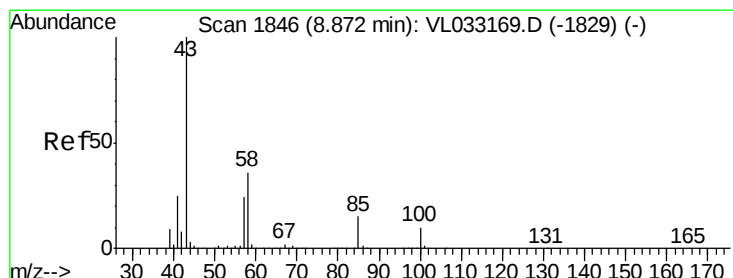
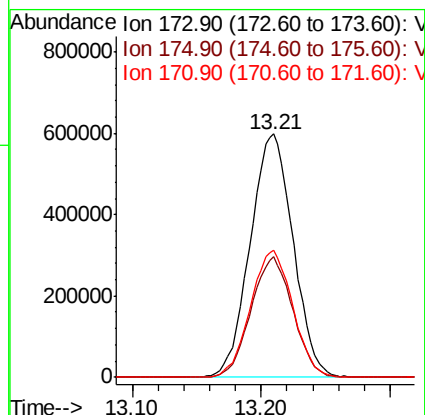
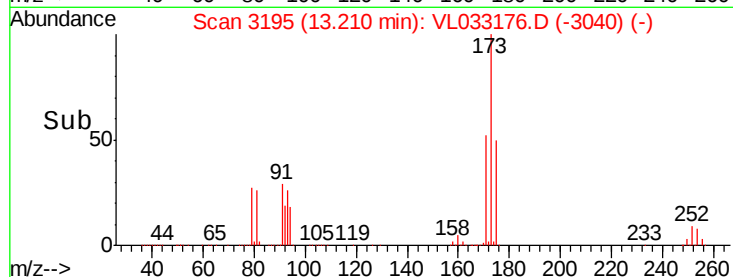
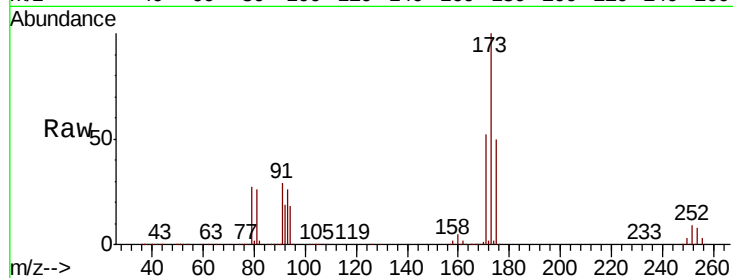
#49
Bromoform
Concen: 9.517 ppbv
RT: 13.21 min Scan# 3195
Delta R.T. -0.00 min
Lab File: VL033176.D
Acq: 6 Feb 2019 6:59

Instrument :
MSVOA_L
ClientSampleId :
ICVVL020519

Tgt Ion: 173 Resp: 1386298
Ion Ratio Lower Upper
173 100
175 48.5 38.6 58.0
171 51.6 41.6 62.4

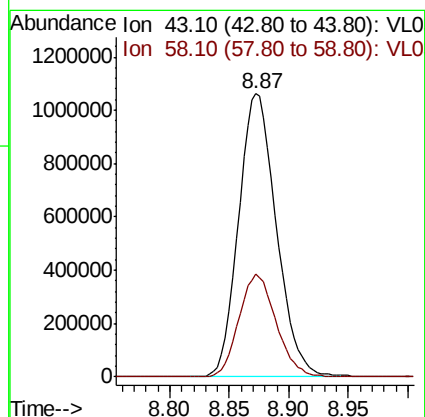
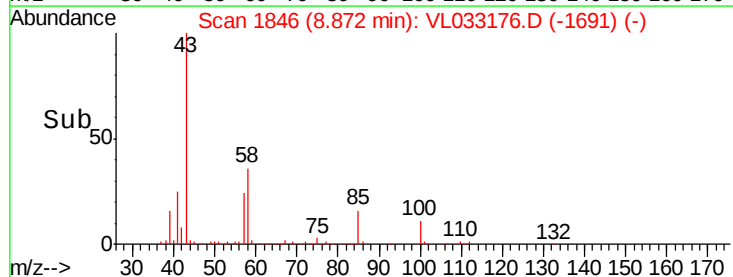
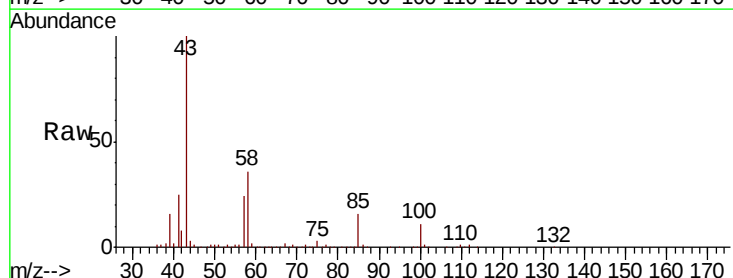
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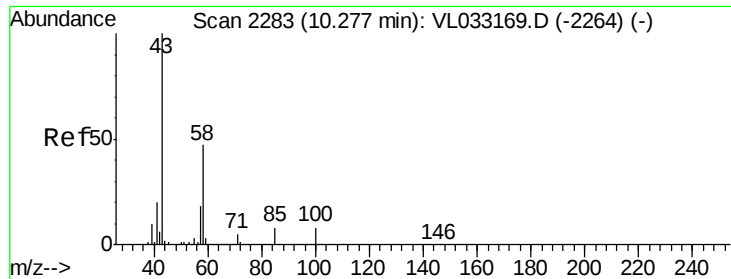
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2/20/2019 12:21:38 PM



#50
4-Methyl-2-Pentanone
Concen: 8.869 ppbv
RT: 8.87 min Scan# 1846
Delta R.T. -0.00 min
Lab File: VL033176.D
Acq: 6 Feb 2019 6:59

Tgt Ion: 43 Resp: 2335297
Ion Ratio Lower Upper
43 100
58 35.8 29.0 43.6





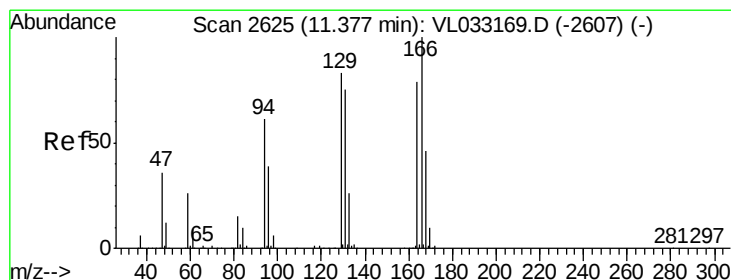
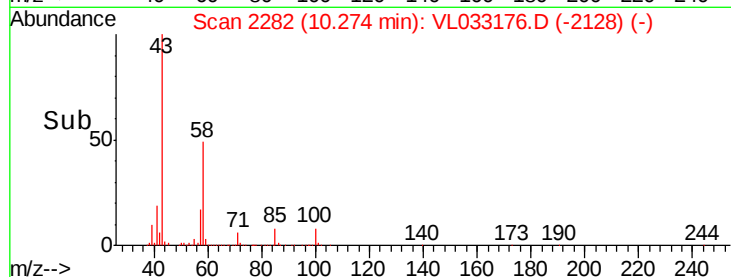
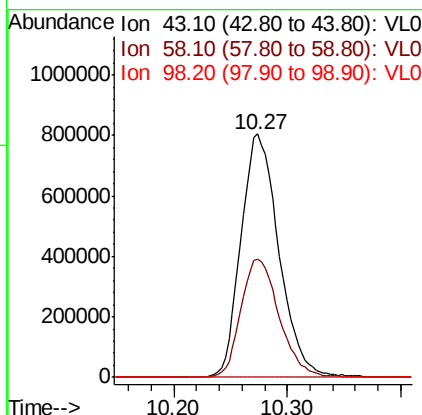
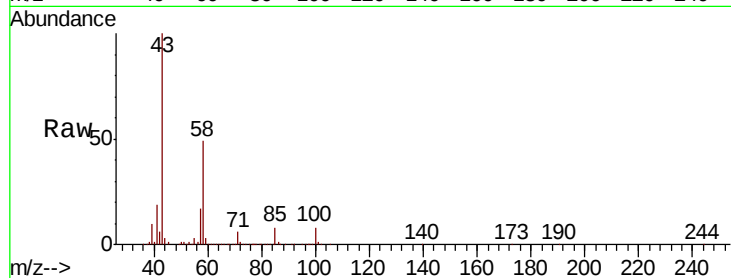
#51
2-Hexanone
Concen: 9.044 ppbv
RT: 10.27 min Scan# 2282
Delta R.T. -0.00 min
Lab File: VL033176.D
Acq: 6 Feb 2019 6:59

Instrument :
MSVOA_L
ClientSampleId :
ICVVL020519

Tgt Ion: 43 Resp: 1877621
Ion Ratio Lower Upper
43 100
58 49.4 39.0 58.6
98 0.0 0.1 0.1#

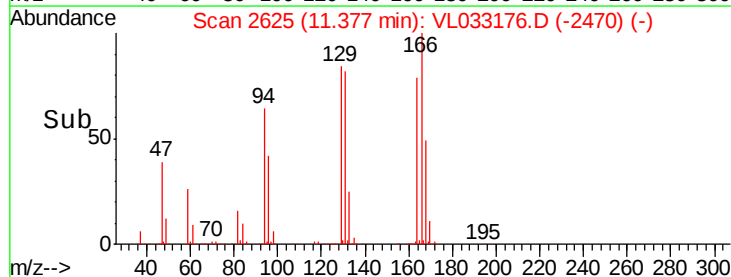
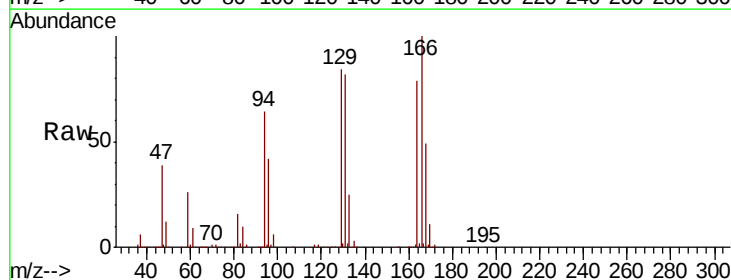
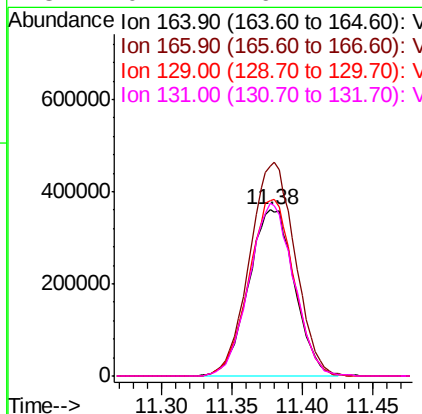
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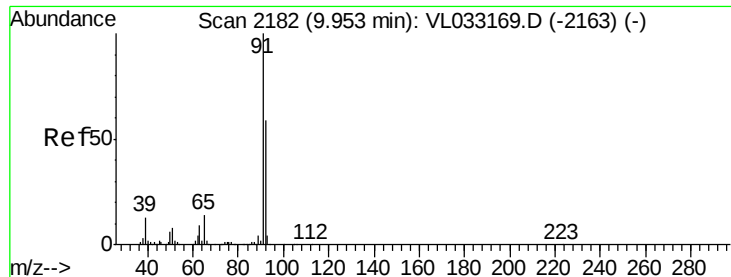
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2/20/2019 12:21:38 PM



#52
Tetrachloroethene
Concen: 8.110 ppbv
RT: 11.38 min Scan# 2625
Delta R.T. -0.00 min
Lab File: VL033176.D
Acq: 6 Feb 2019 6:59

Tgt Ion: 164 Resp: 817516
Ion Ratio Lower Upper
164 100
166 126.6 100.9 151.3
129 105.9 83.9 125.9
131 104.1 76.2 114.2





#53

Toluene

Concen: 8.780 ppbv

RT: 9.95 min Scan# 2181

Delta R.T. -0.00 min

Lab File: VL033176.D

Acq: 6 Feb 2019 6:59

Instrument :

MSVOA_L

ClientSampleId :

ICVVL020519

Tgt Ion: 91 Resp: 2727696

Ion Ratio Lower Upper

91 100

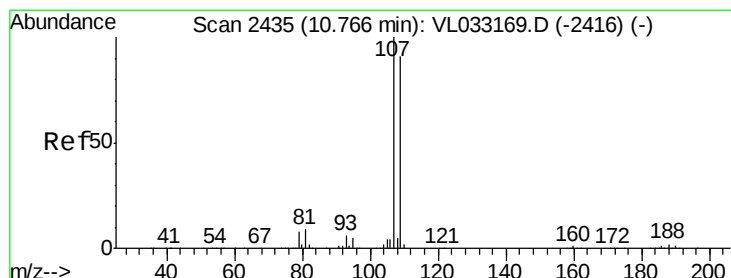
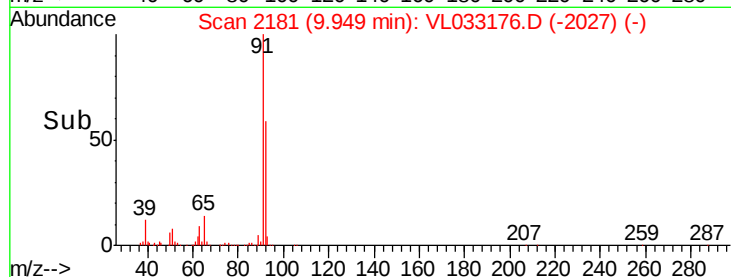
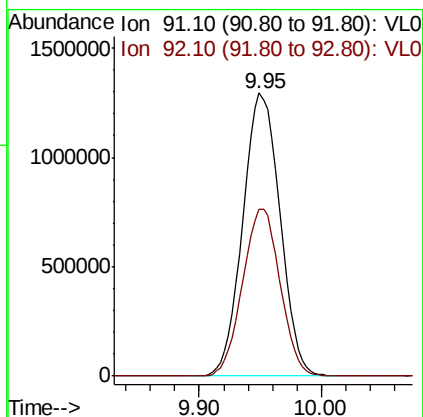
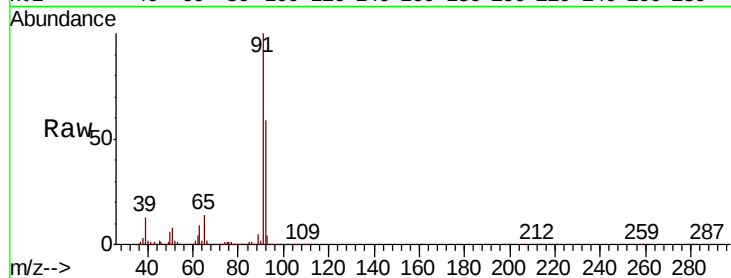
92 59.5 48.0 72.0

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2/20/2019 12:21:38 PM



#54

1,2-Dibromoethane

Concen: 8.751 ppbv

RT: 10.76 min Scan# 2434

Delta R.T. -0.00 min

Lab File: VL033176.D

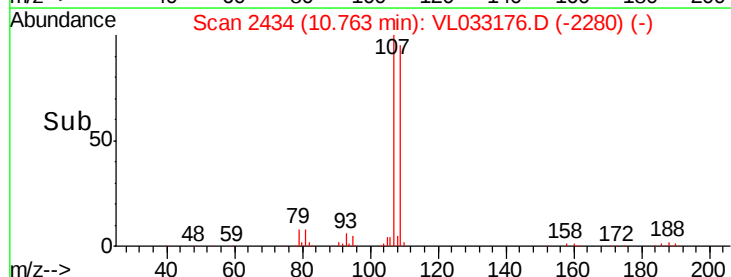
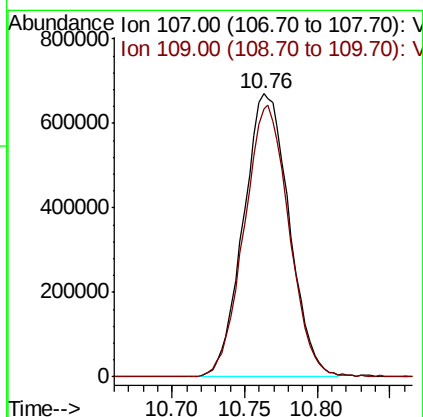
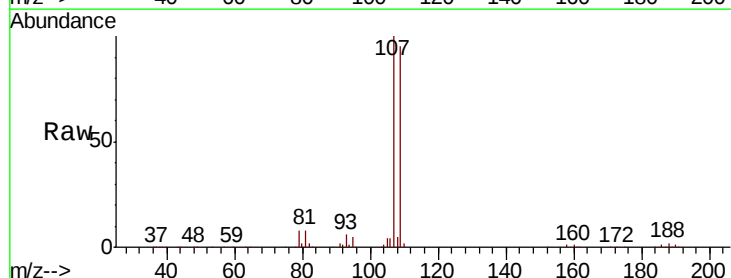
Acq: 6 Feb 2019 6:59

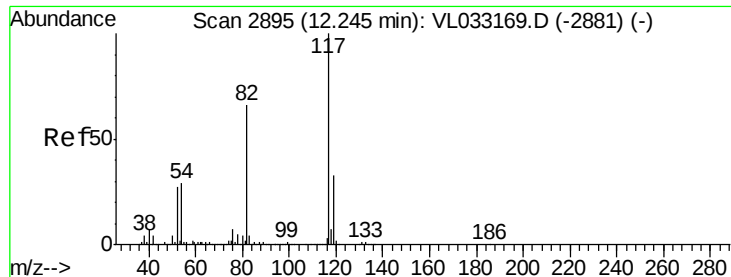
Tgt Ion: 107 Resp: 1475593

Ion Ratio Lower Upper

107 100

109 94.5 73.2 109.8





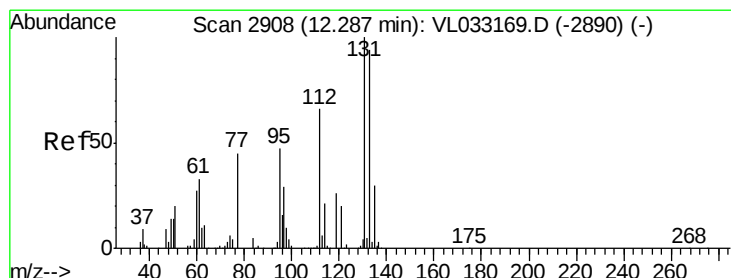
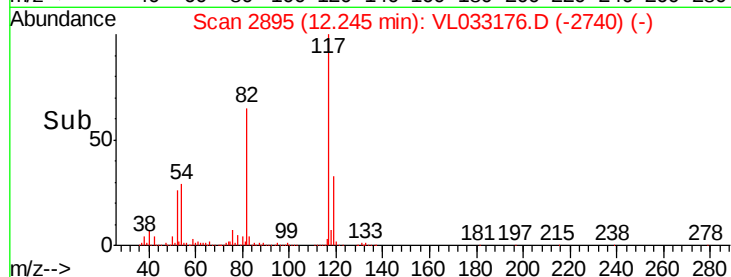
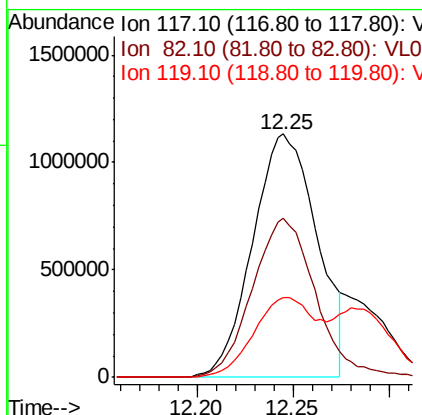
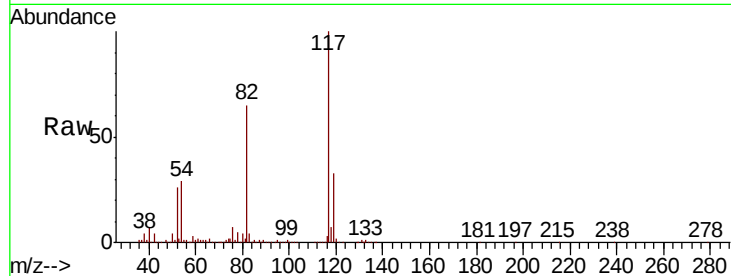
#55
Chlorobenzene-d5
Concen: 10.000 ppbv m
RT: 12.25 min Scan# 2895
Delta R.T. -0.00 min
Lab File: VL033176.D
Acq: 6 Feb 2019 6:59

Instrument :
MSVOA_L
ClientSampled :
ICVVL020519

Tgt Ion	Ratio	Lower	Upper
117	100		
82	64.7	53.8	80.8
119	34.4	46.9	70.3#

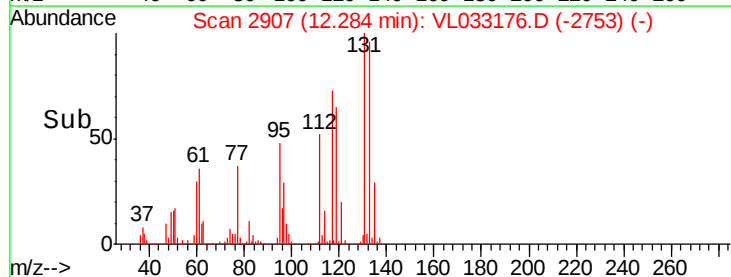
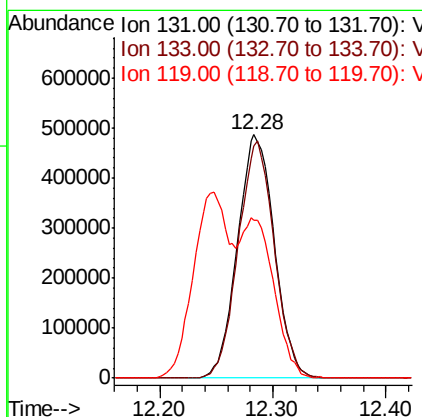
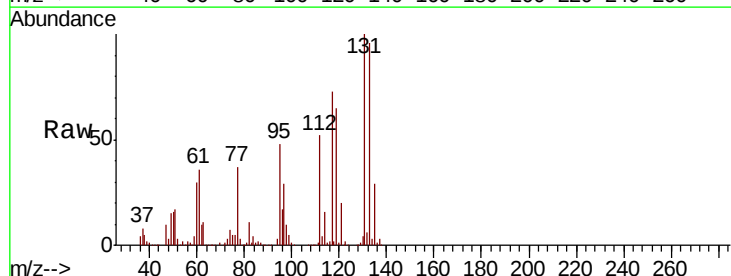
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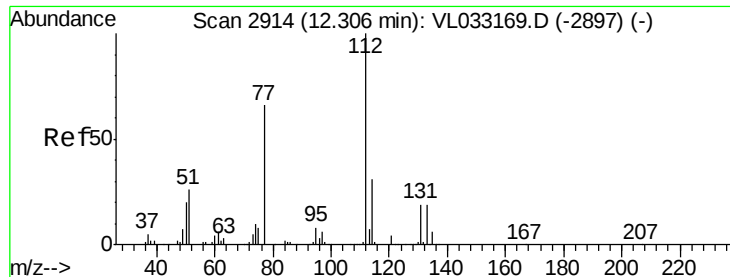
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2/20/2019 12:21:38 PM



#56
1,1,1,2-Tetrachloroethane
Concen: 8.986 ppbv
RT: 12.28 min Scan# 2907
Delta R.T. -0.00 min
Lab File: VL033176.D
Acq: 6 Feb 2019 6:59

Tgt Ion	Ratio	Lower	Upper
131	100		
133	95.5	75.8	113.6
119	54.4	48.1	72.1





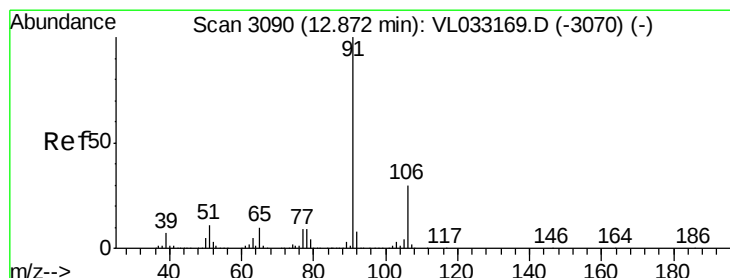
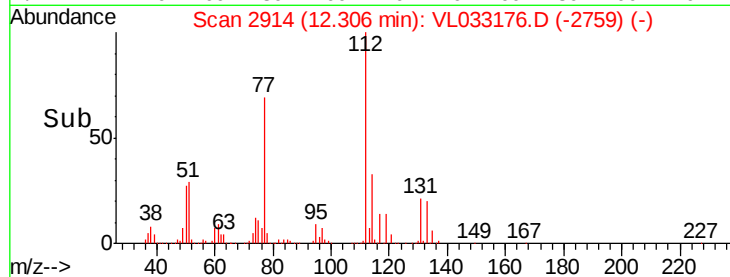
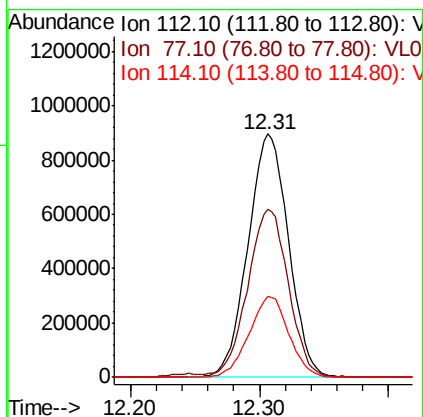
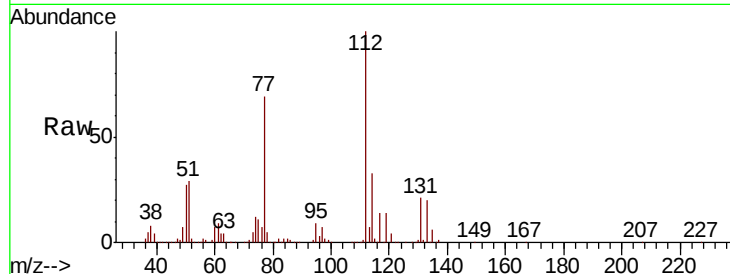
#57
Chlorobenzene
Concen: 8.422 ppbv
RT: 12.31 min Scan# 2914
Delta R.T. -0.00 min
Lab File: VL033176.D
Acq: 6 Feb 2019 6:59

Instrument :
MSVOA_L
ClientSampleId :
ICVVL020519

Tgt Ion	Ratio	Lower	Upper
112	100		
77	68.6	54.0	81.0
114	33.0	27.9	34.1

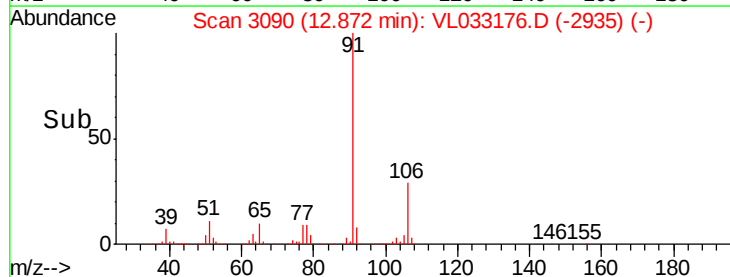
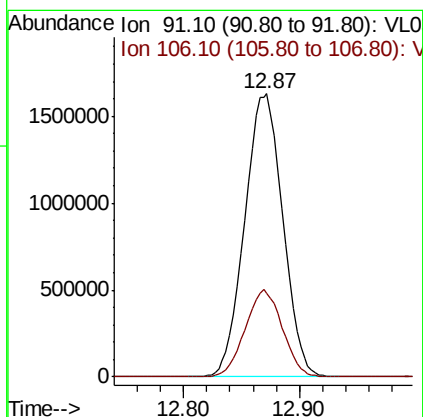
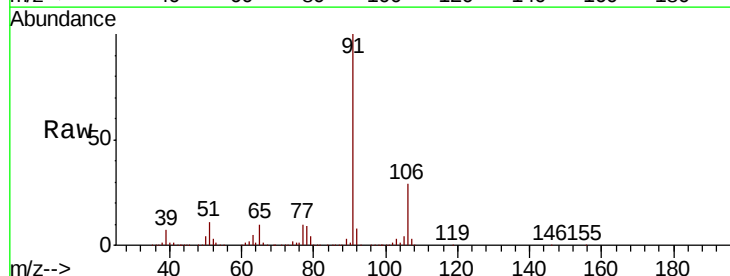
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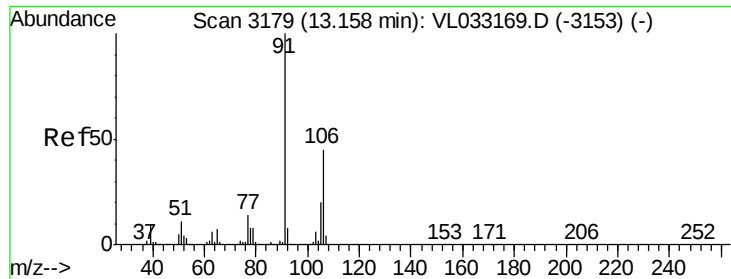
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2/20/2019 12:21:38 PM



#58
Ethyl Benzene
Concen: 8.632 ppbv
RT: 12.87 min Scan# 3090
Delta R.T. -0.00 min
Lab File: VL033176.D
Acq: 6 Feb 2019 6:59

Tgt Ion	Ratio	Lower	Upper
91	100		
106	29.4	23.8	35.8





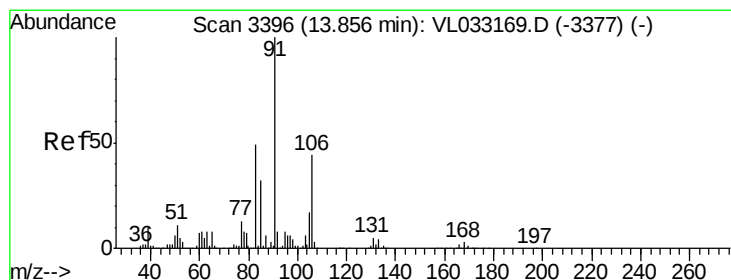
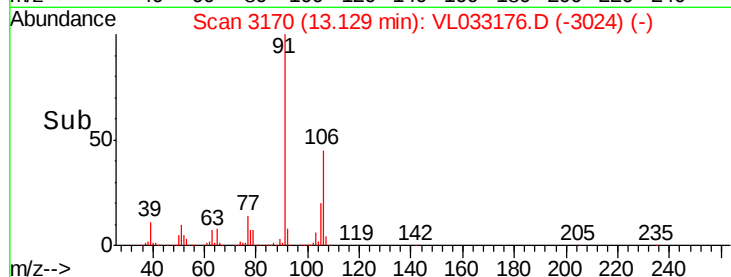
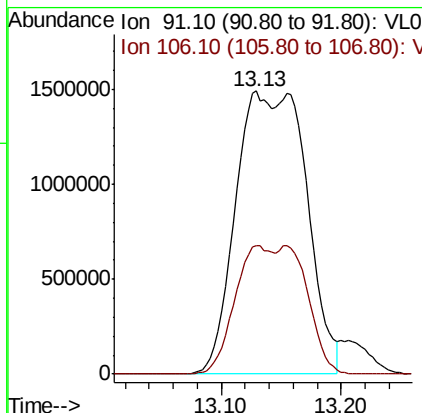
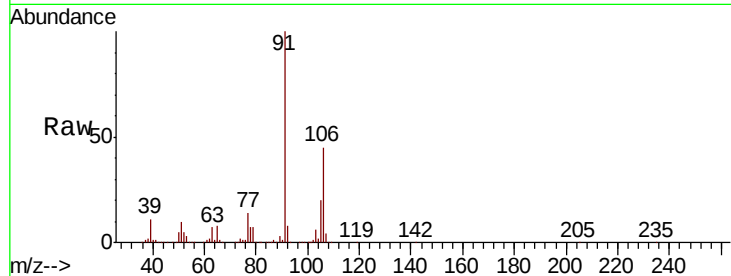
#59
m/p-Xylene
Concen: 16.915 ppbv m
RT: 13.13 min Scan# 3179
Delta R.T. -0.03 min
Lab File: VL033176.D
Acq: 6 Feb 2019 6:59

Instrument :
MSVOA_L
ClientSampleId :
ICVVL020519

Tgt Ion: 91 Resp: 6081428
Ion Ratio Lower Upper
91 100
106 45.1 36.6 55.0

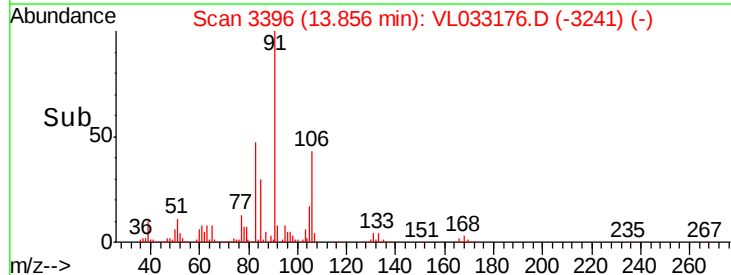
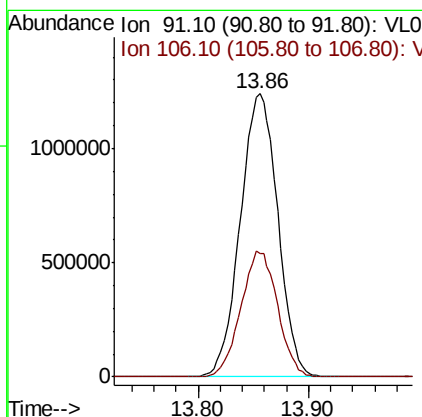
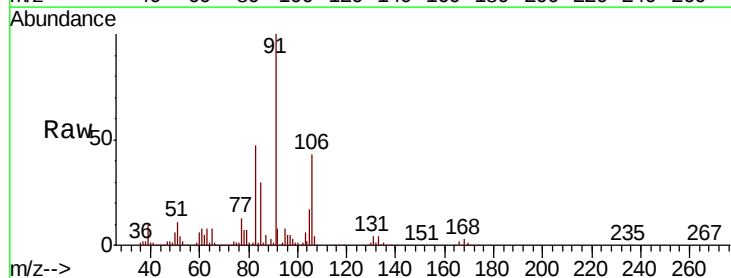
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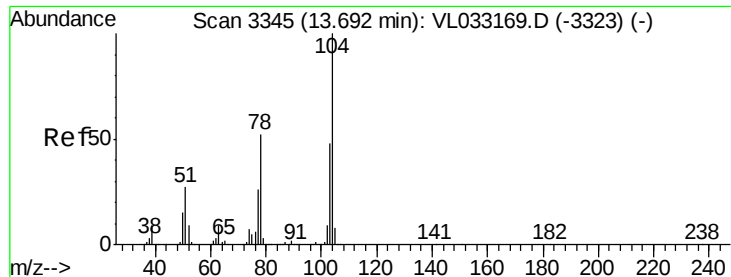
MMDadoda
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#60
o-Xylene
Concen: 8.327 ppbv
RT: 13.86 min Scan# 3396
Delta R.T. -0.00 min
Lab File: VL033176.D
Acq: 6 Feb 2019 6:59

Tgt Ion: 91 Resp: 2919298
Ion Ratio Lower Upper
91 100
106 43.4 21.8 65.3





#61

Styrene

Concen: 8.689 ppbv

RT: 13.69 min Scan# 3345

Delta R.T. -0.00 min

Lab File: VL033176.D

Acq: 6 Feb 2019 6:59

Instrument :

MSVOA_L

ClientSampled :

ICVVL020519

Tgt Ion:104 Resp: 2299736

Ion Ratio Lower Upper

104 100

78 53.0 41.9 62.9

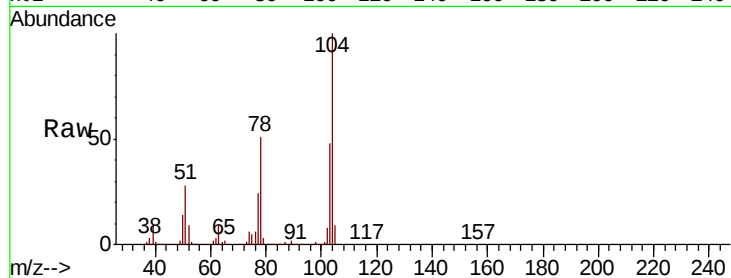
103 47.8 37.9 56.9

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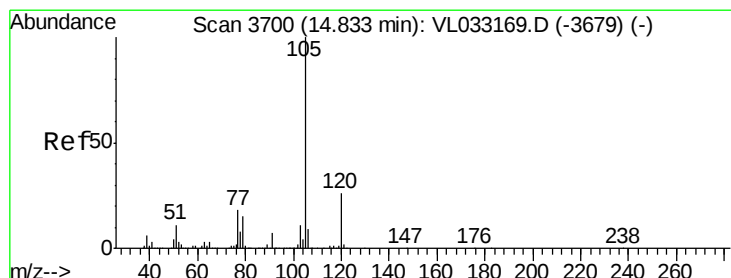
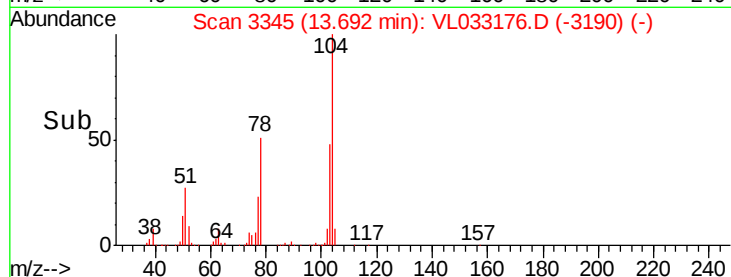
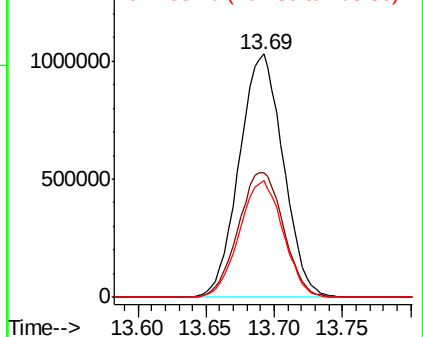
2/20/2019 12:21:38 PM



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: 8.474 ppbv

RT: 14.83 min Scan# 3700

Delta R.T. -0.00 min

Lab File: VL033176.D

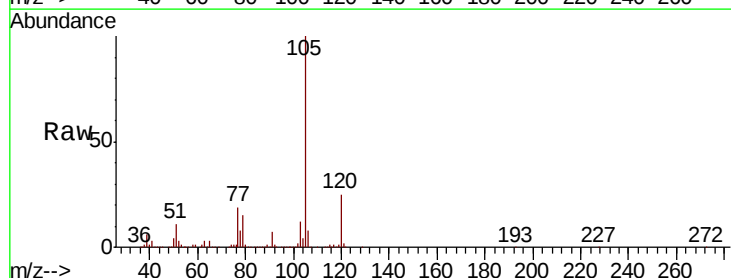
Acq: 6 Feb 2019 6:59

Tgt Ion:105 Resp: 4191751

Ion Ratio Lower Upper

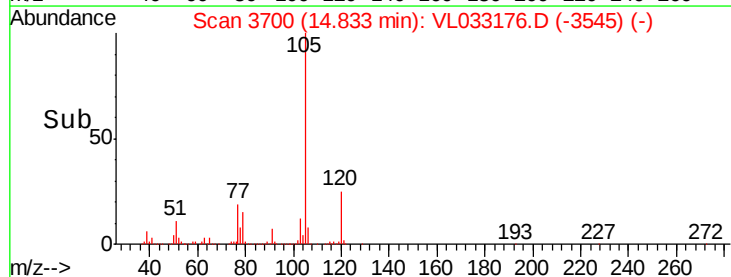
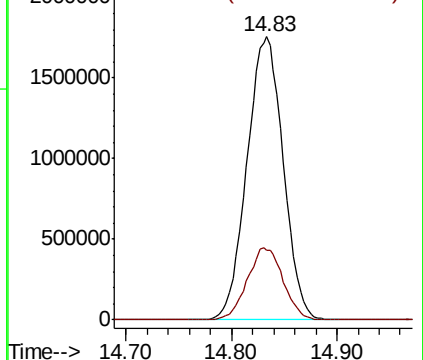
105 100

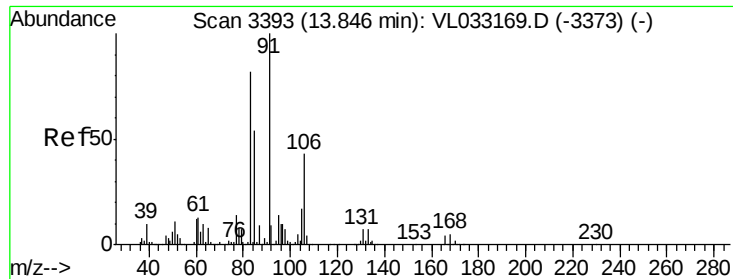
120 25.2 20.3 30.5



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





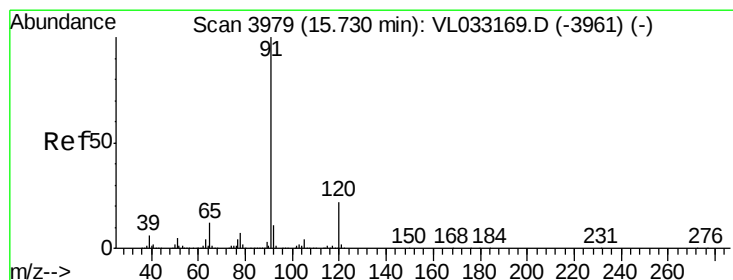
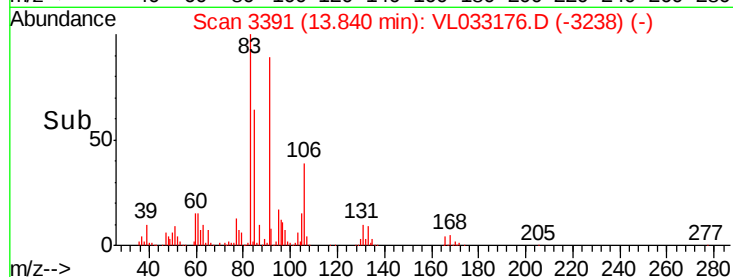
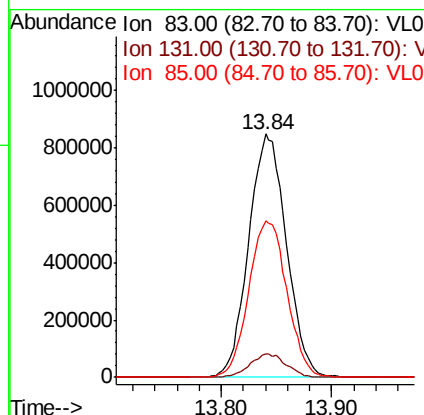
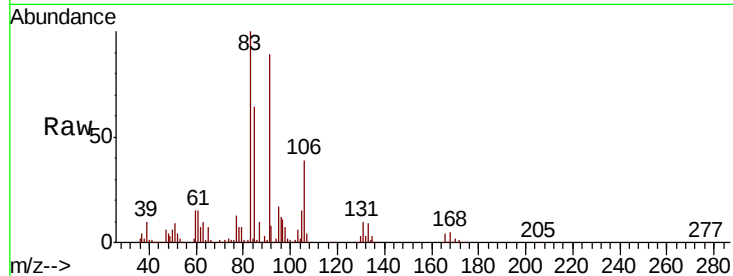
#63
 1,1,2,2-Tetrachloroethane
 Concen: 7.339 ppbv
 RT: 13.84 min Scan# 3391
 Delta R.T. -0.01 min
 Lab File: VL033176.D
 Acq: 6 Feb 2019 6:59

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL020519

Tgt Ion	Ratio	Lower	Upper
83	100		
131	9.4	4.8	14.3
85	65.2	32.8	98.3

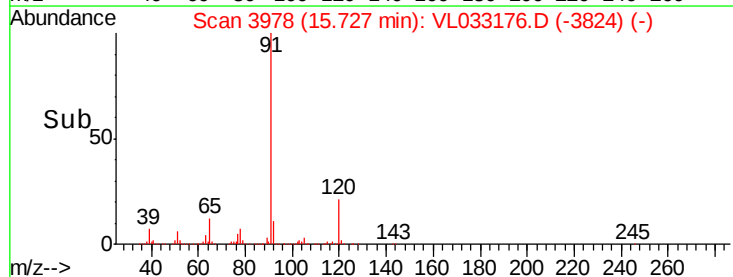
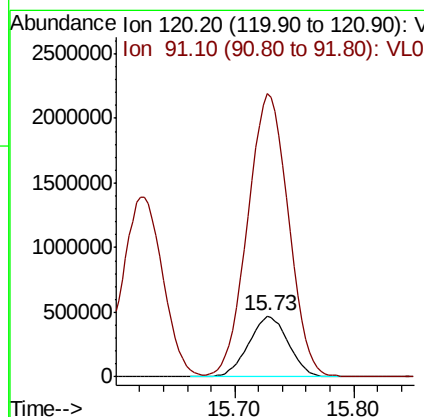
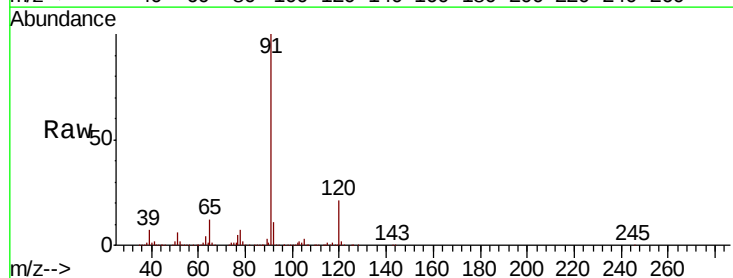
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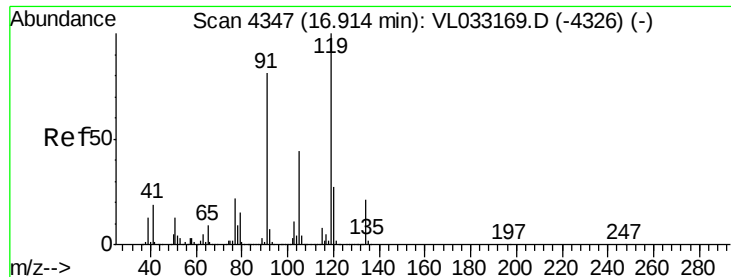
MMDadoda
 2/20/2019 12:21:38 PM



#64
 n-propylbenzene
 Concen: 8.605 ppbv
 RT: 15.73 min Scan# 3978
 Delta R.T. -0.00 min
 Lab File: VL033176.D
 Acq: 6 Feb 2019 6:59

Tgt Ion	Ratio	Lower	Upper
120	100		
91	482.1	383.9	575.9





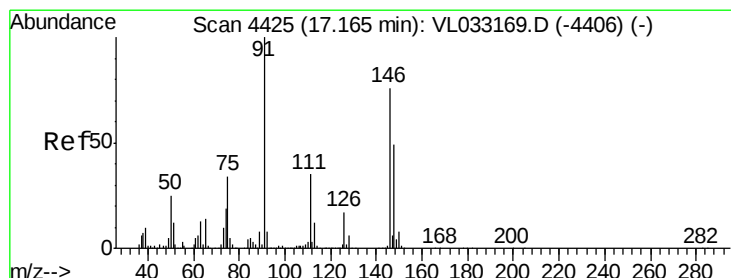
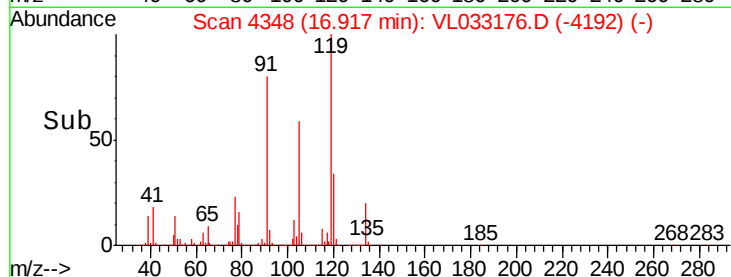
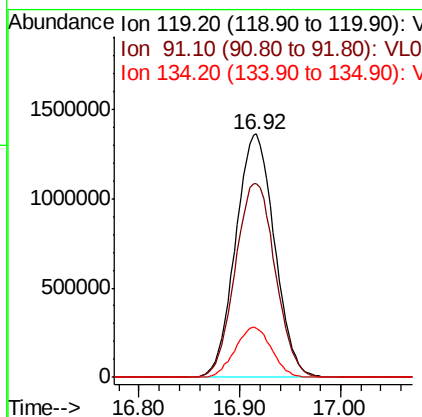
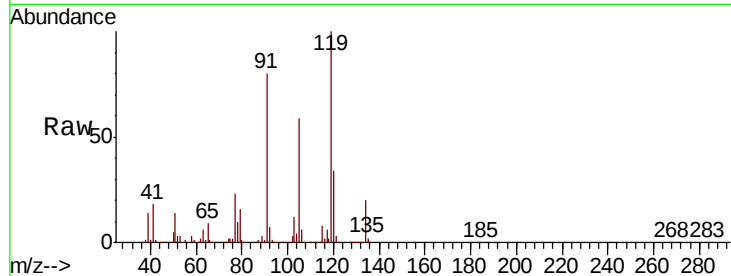
#65
tert-Butylbenzene
Concen: 8.447 ppbv
RT: 16.92 min Scan# 4348
Delta R.T. 0.00 min
Lab File: VL033176.D
Acq: 6 Feb 2019 6:59

Instrument :
MSVOA_L
ClientSampleId :
ICVVL020519

Tgt Ion	Ratio	Lower	Upper
119	100		
91	82.4	65.6	98.4
134	19.5	15.8	23.8

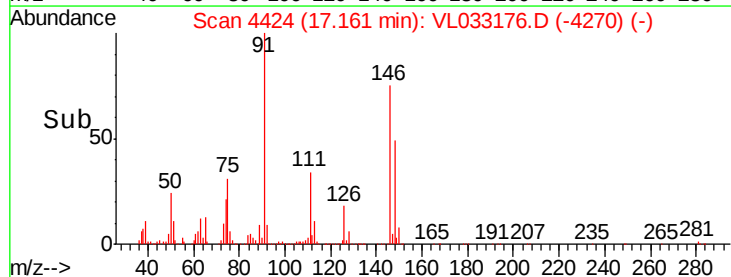
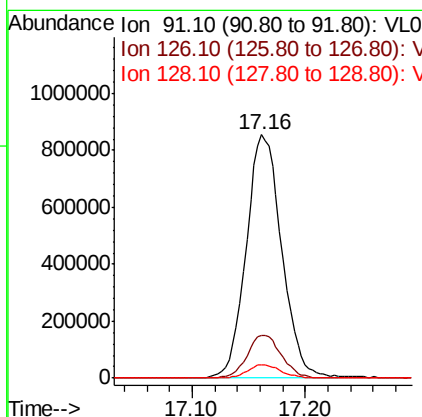
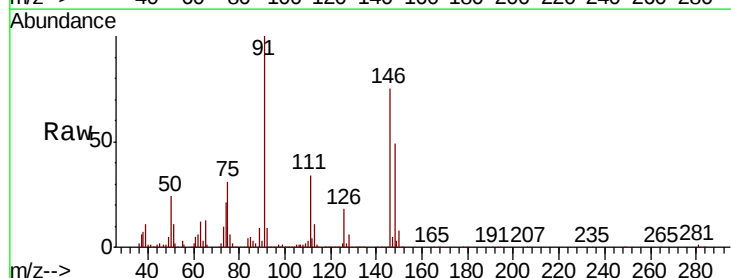
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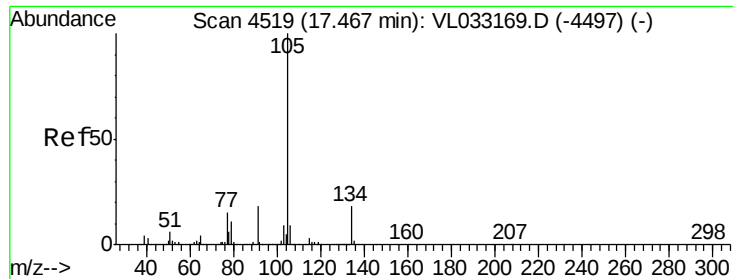
MMDadoda
2/20/2019 12:21:38 PM



#66
Benzyl Chloride
Concen: 12.110 ppbv
RT: 17.16 min Scan# 4424
Delta R.T. -0.00 min
Lab File: VL033176.D
Acq: 6 Feb 2019 6:59

Tgt Ion	Ratio	Lower	Upper
91	100		
126	17.2	13.8	20.6
128	5.3	4.5	6.7





#67

sec-Butylbenzene

Concen: 8.378 ppbv

RT: 17.47 min Scan# 4519

Delta R.T. -0.00 min

Lab File: VL033176.D

Acq: 6 Feb 2019 6:59

Instrument :

MSVOA_L

ClientSampleId :

ICVVL020519

Tgt Ion: 105 Resp: 5238551

Ion Ratio Lower Upper

105 100

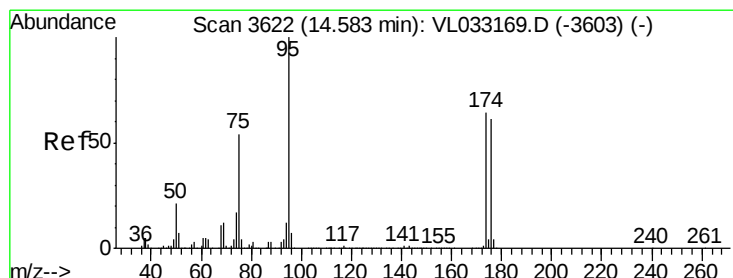
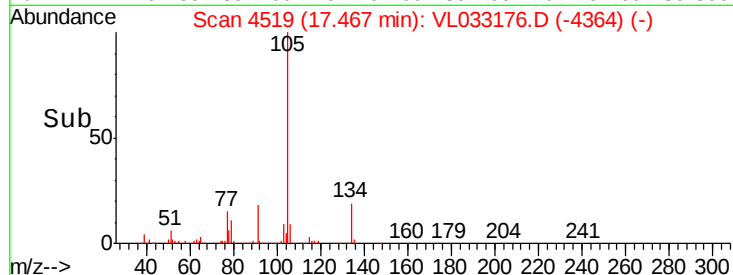
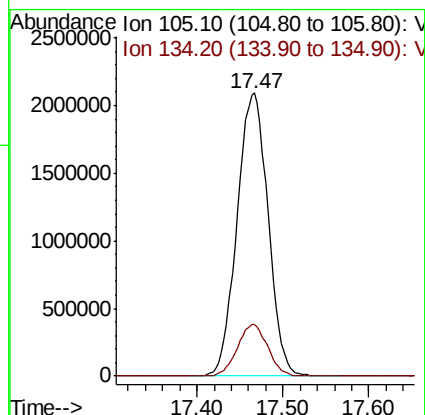
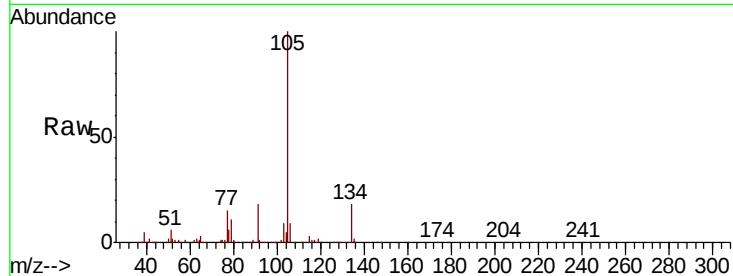
134 17.9 14.6 22.0

Manual Integrations

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2/20/2019 12:21:38 PM



#68

1-Bromo-4-Fluorobenzene

Concen: 9.706 ppbv

RT: 14.58 min Scan# 3622

Delta R.T. -0.00 min

Lab File: VL033176.D

Acq: 6 Feb 2019 6:59

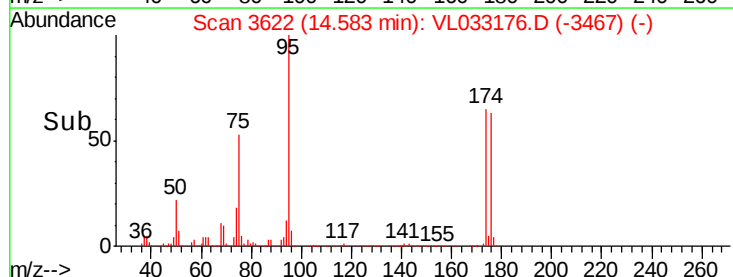
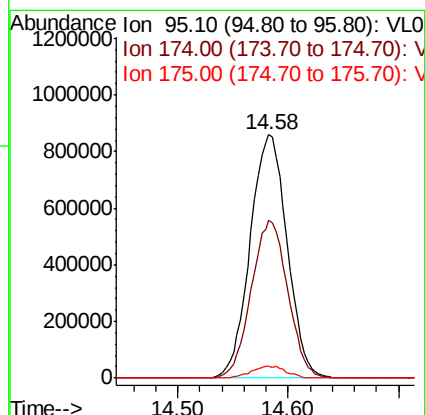
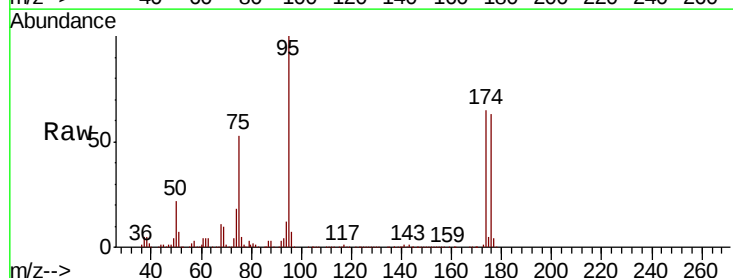
Tgt Ion: 95 Resp: 1991700

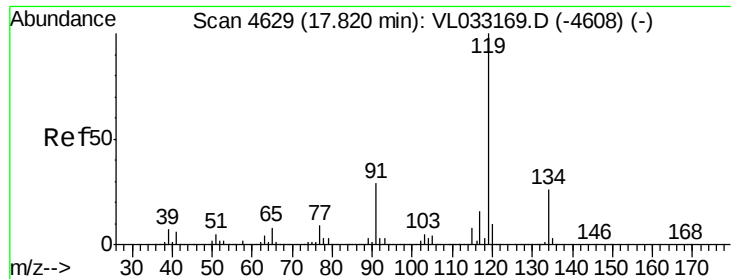
Ion Ratio Lower Upper

95 100

174 64.2 51.1 76.7

175 4.8 3.8 5.6





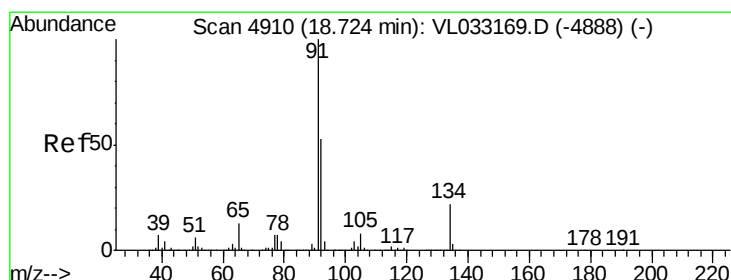
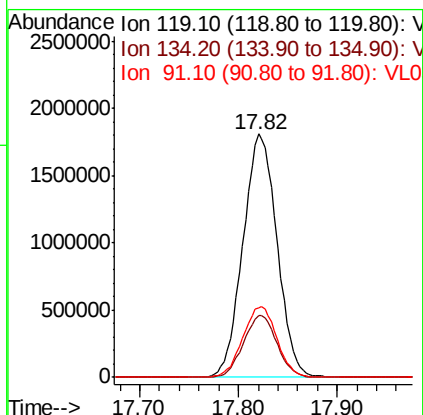
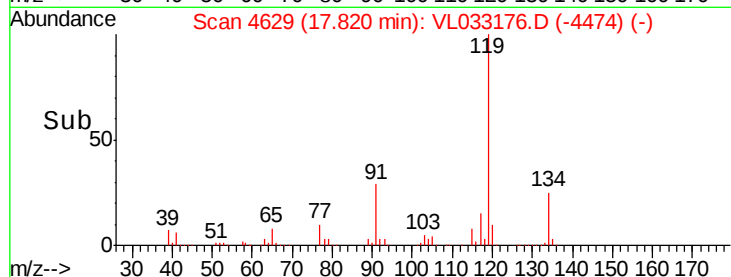
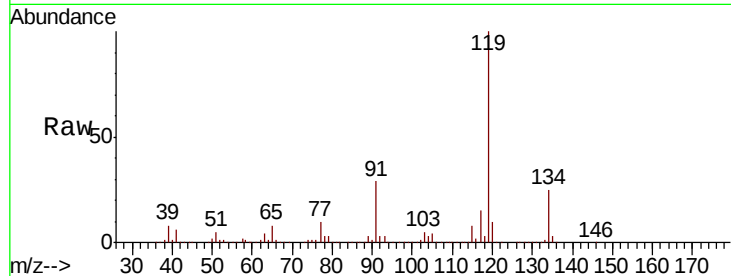
#69
p-Isopropyltoluene
Concen: 8.285 ppbv
RT: 17.82 min Scan# 4629
Delta R.T. -0.00 min
Lab File: VL033176.D
Acq: 6 Feb 2019 6:59

Instrument :
MSVOA_L
ClientSampleId :
ICVVL020519

Tgt Ion: 119 Resp: 4314074
Ion Ratio Lower Upper
119 100
134 25.2 20.4 30.6
91 29.1 23.4 35.0

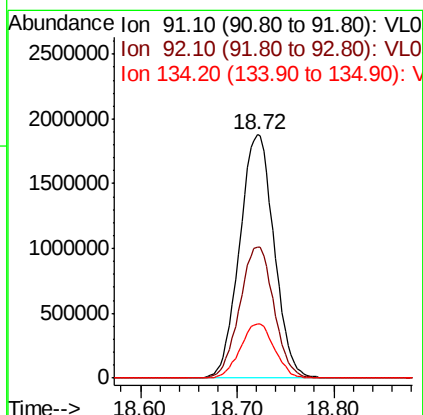
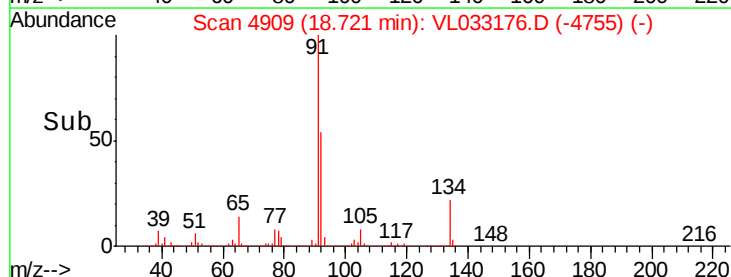
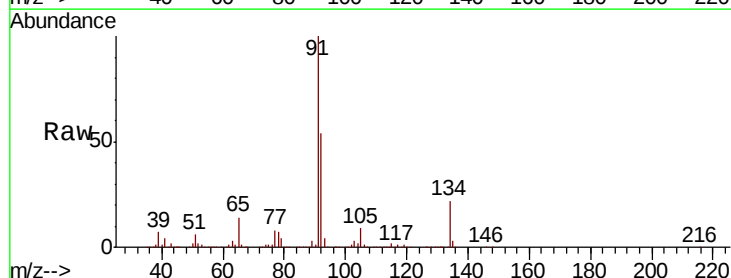
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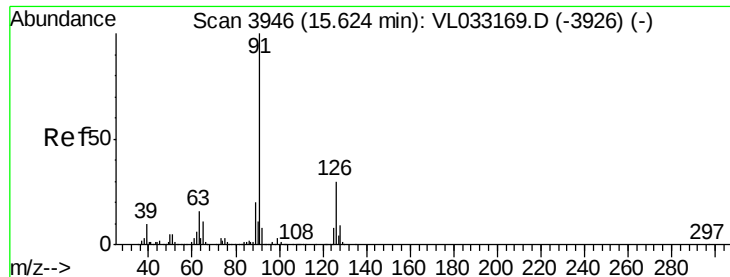
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2/20/2019 12:21:38 PM



#70
n-Butylbenzene
Concen: 8.266 ppbv
RT: 18.72 min Scan# 4909
Delta R.T. -0.00 min
Lab File: VL033176.D
Acq: 6 Feb 2019 6:59

Tgt Ion: 91 Resp: 4643551
Ion Ratio Lower Upper
91 100
92 53.7 43.0 64.4
134 22.2 17.5 26.3





#71

2-Chlorotoluene

Concen: 8.485 ppbv

RT: 15.62 min Scan# 3946

Delta R.T. -0.00 min

Lab File: VL033176.D

Acq: 6 Feb 2019 6:59

Instrument :

MSVOA_L

ClientSampleId :

ICVVL020519

Tgt Ion: 91 Resp: 3297432

Ion Ratio Lower Upper

91 100

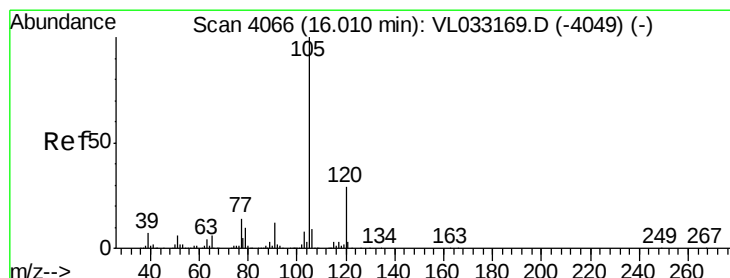
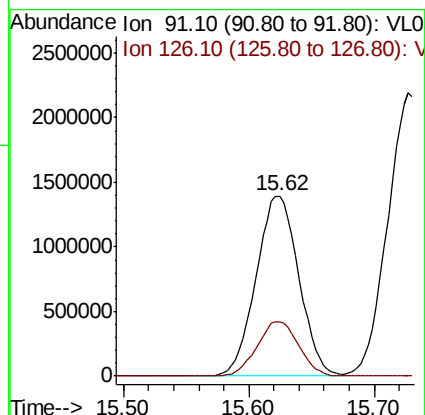
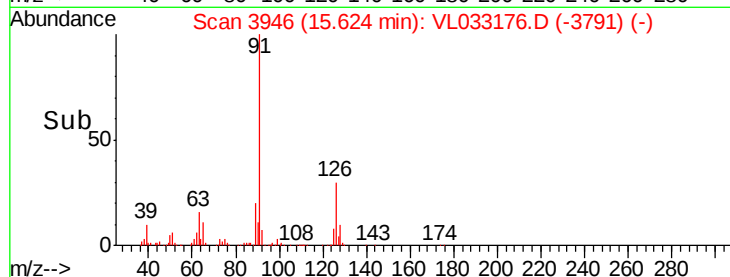
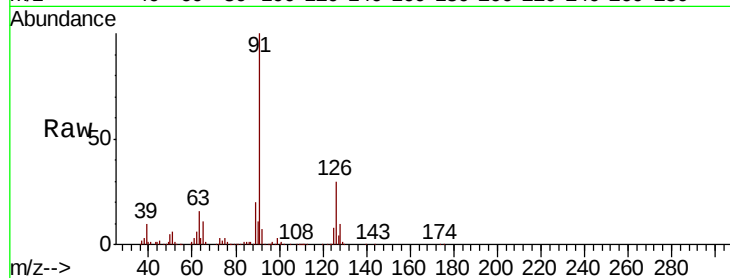
126 29.8 11.8 47.4

Manual Integrations

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2/20/2019 12:21:38 PM



#72

4-Ethyltoluene

Concen: 8.710 ppbv

RT: 16.01 min Scan# 4065

Delta R.T. -0.00 min

Lab File: VL033176.D

Acq: 6 Feb 2019 6:59

Tgt Ion: 105 Resp: 3522044

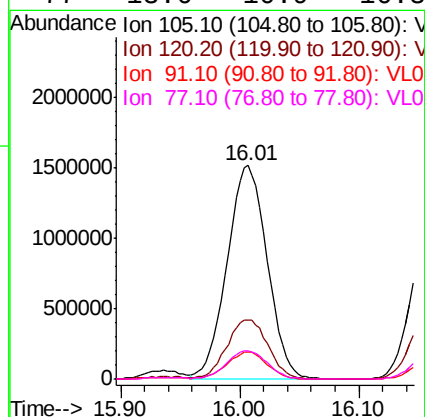
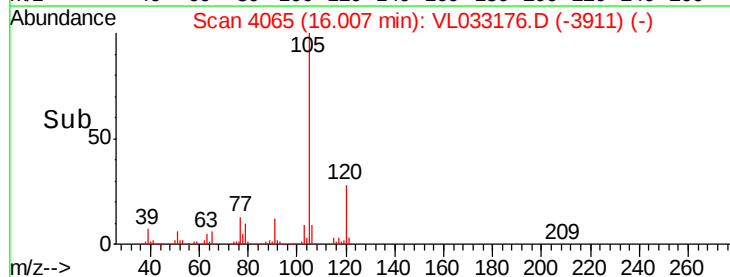
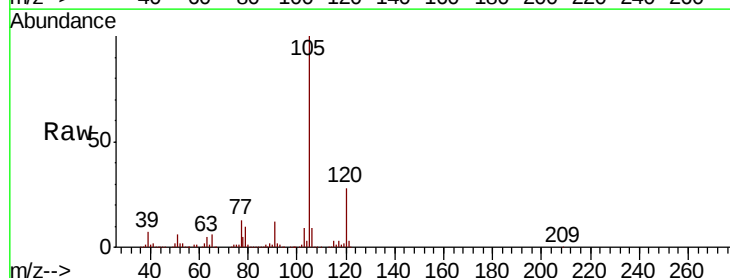
Ion Ratio Lower Upper

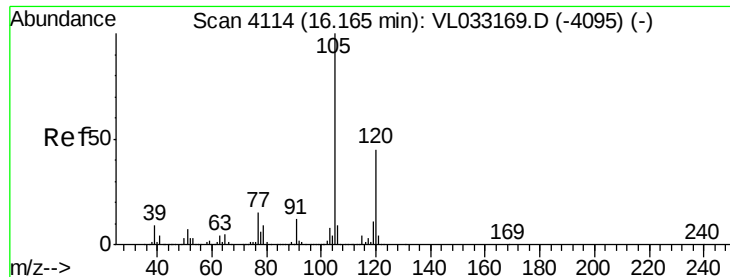
105 100

120 28.5 23.1 34.7

91 12.6 9.8 14.6

77 13.6 10.9 16.3





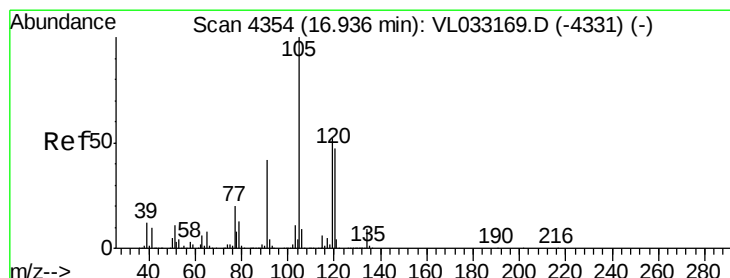
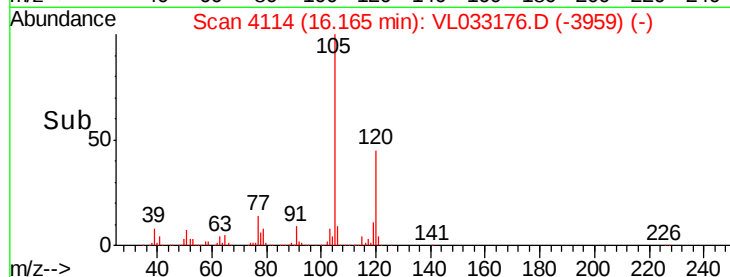
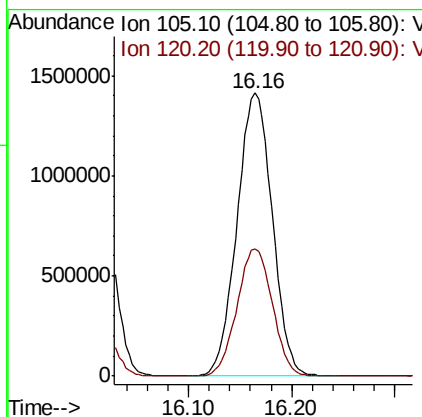
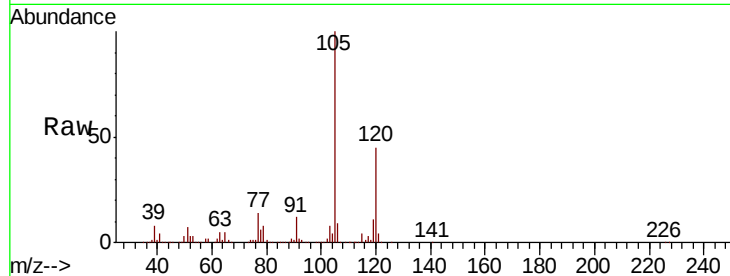
#73
 1,3,5-Trimethylbenzene
 Concen: 8.665 ppbv
 RT: 16.16 min Scan# 4114
 Delta R.T. -0.00 min
 Lab File: VL033176.D
 Acq: 6 Feb 2019 6:59

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL020519

Tgt Ion:105 Resp: 3350886
 Ion Ratio Lower Upper
 105 100
 120 44.9 36.2 54.4

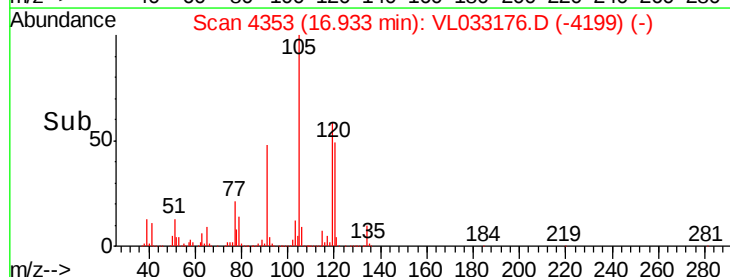
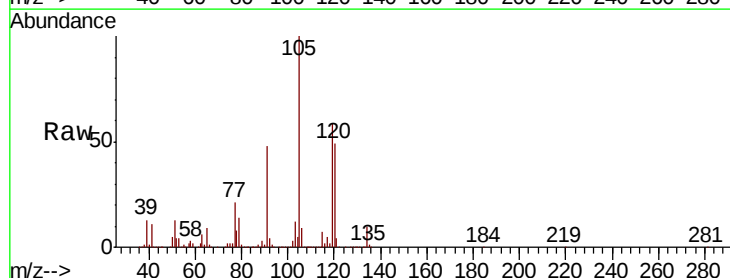
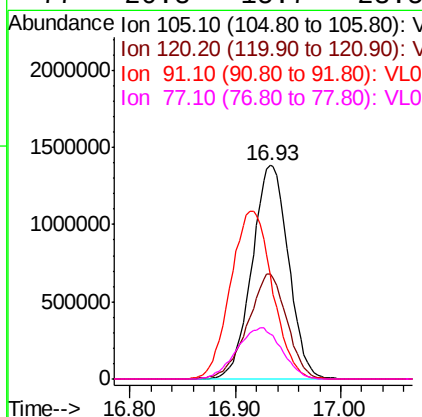
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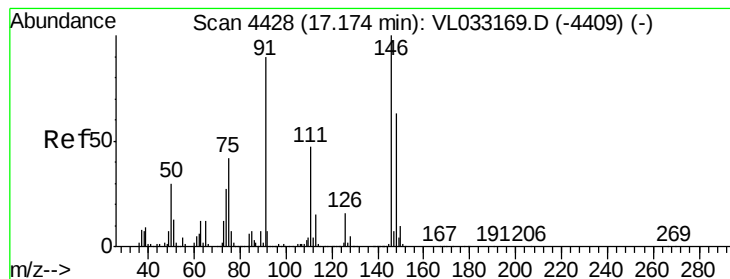
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#74
 1,2,4-Trimethylbenzene
 Concen: 8.289 ppbv
 RT: 16.93 min Scan# 4353
 Delta R.T. -0.00 min
 Lab File: VL033176.D
 Acq: 6 Feb 2019 6:59

Tgt Ion:105 Resp: 3324564
 Ion Ratio Lower Upper
 105 100
 120 49.2 37.9 56.9
 91 48.2 34.0 51.0
 77 20.8 15.7 23.5





#75

1,3-Dichlorobenzene

Concen: 8.456 ppbv

RT: 17.17 min Scan# 4428

Delta R.T. -0.00 min

Lab File: VL033176.D

Acq: 6 Feb 2019 6:59

Instrument :

MSVOA_L

ClientSampled :

ICVVL020519

Tgt Ion:146 Resp: 1956025

Ion Ratio Lower Upper

146 100

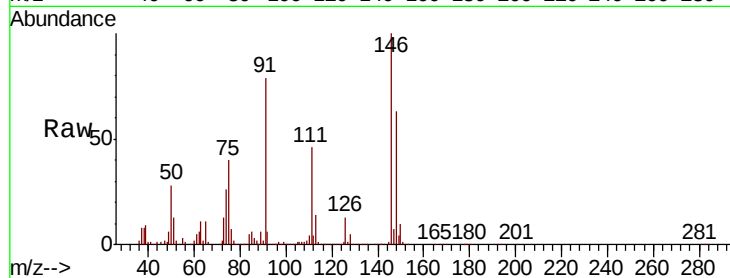
111 45.4 23.2 69.6

148 63.7 31.8 95.4

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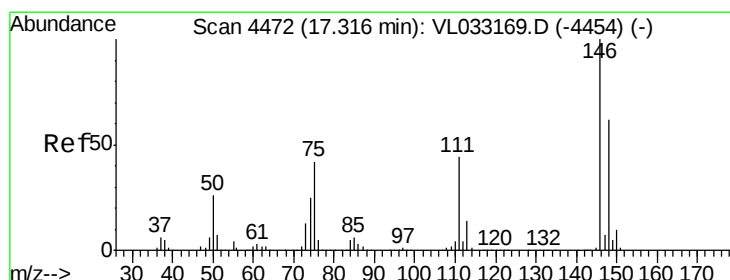
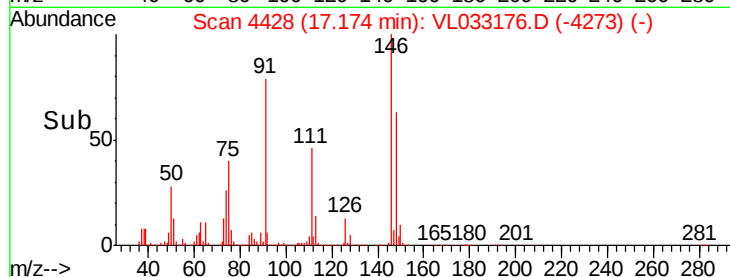
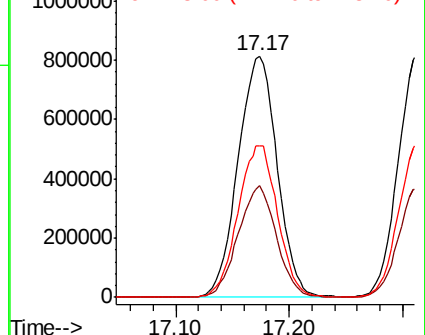


Abundance

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: 8.577 ppbv

RT: 17.31 min Scan# 4471

Delta R.T. -0.00 min

Lab File: VL033176.D

Acq: 6 Feb 2019 6:59

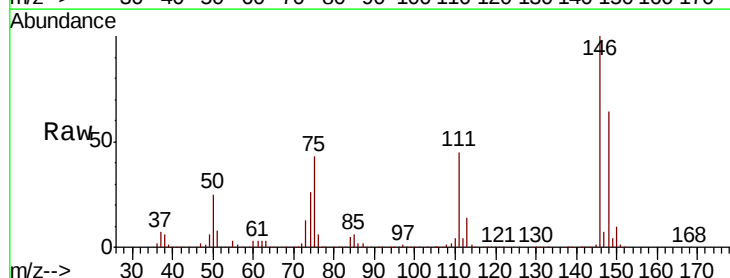
Tgt Ion:146 Resp: 1965826

Ion Ratio Lower Upper

146 100

111 44.6 22.3 66.9

148 64.6 32.0 96.0

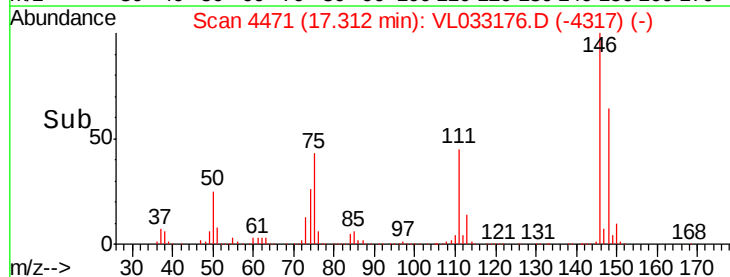
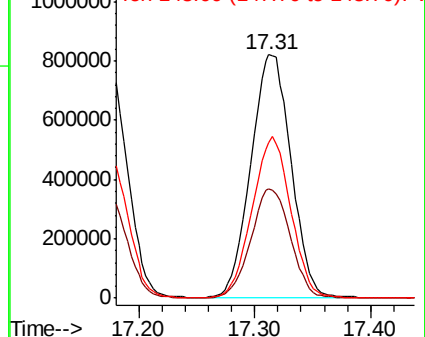


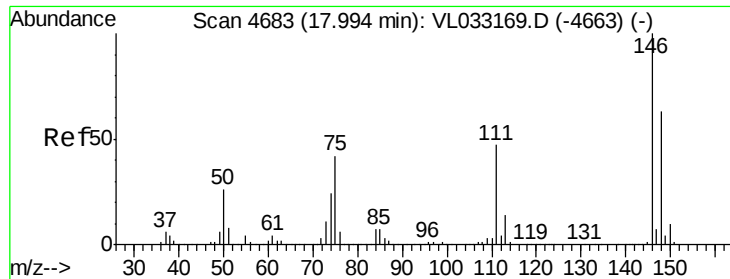
Abundance

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





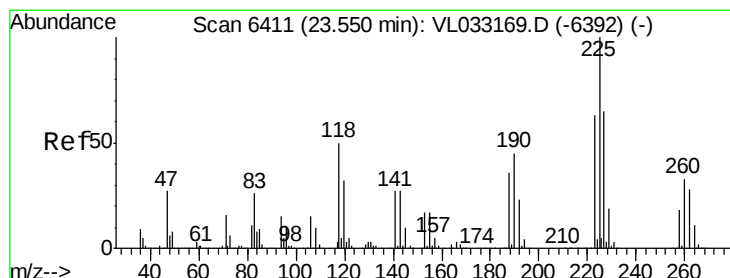
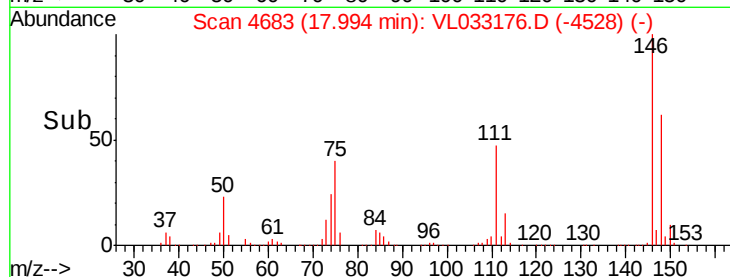
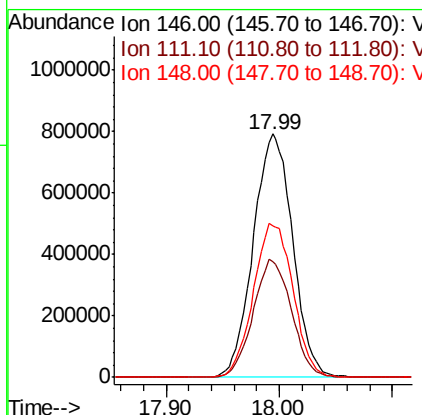
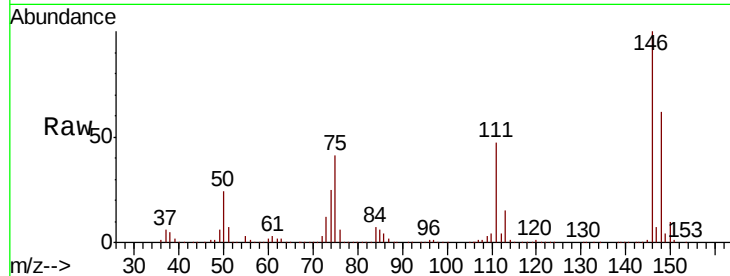
#77
 1,2-Dichlorobenzene
 Concen: 8.374 ppbv
 RT: 17.99 min Scan# 4683
 Delta R.T. -0.00 min
 Lab File: VL033176.D
 Acq: 6 Feb 2019 6:59

Instrument :
 MSVOA_L
 ClientSampled :
 ICVVL020519

Tgt Ion:146 Resp: 1914220
 Ion Ratio Lower Upper
 146 100
 111 47.3 23.5 70.6
 148 63.7 31.9 95.7

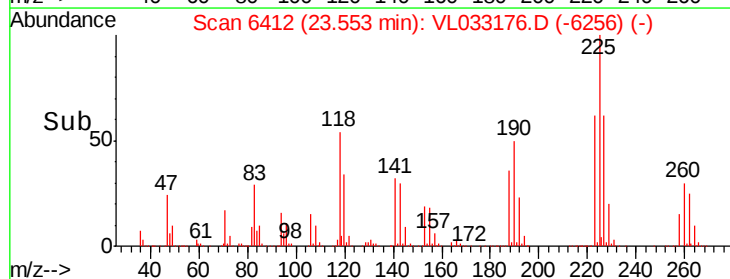
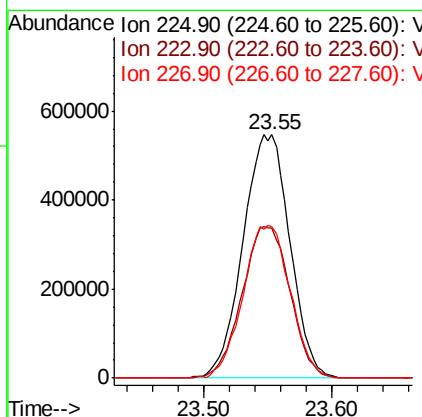
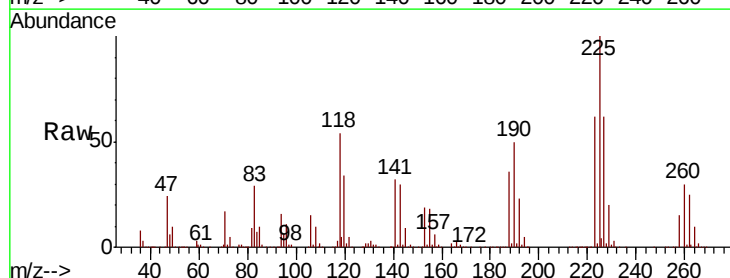
Manual Integrations
 APPROVED

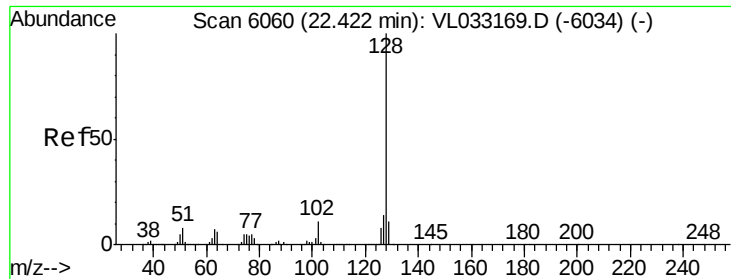
MMDadoda
 2/20/2019 12:21:38 PM



#78
 Hexachloro-1,3-Butadiene
 Concen: 12.261 ppbv m
 RT: 23.55 min Scan# 6412
 Delta R.T. 0.00 min
 Lab File: VL033176.D
 Acq: 6 Feb 2019 6:59

Tgt Ion:225 Resp: 1393655
 Ion Ratio Lower Upper
 225 100
 223 0.0 50.6 75.8#
 227 63.2 51.4 77.2





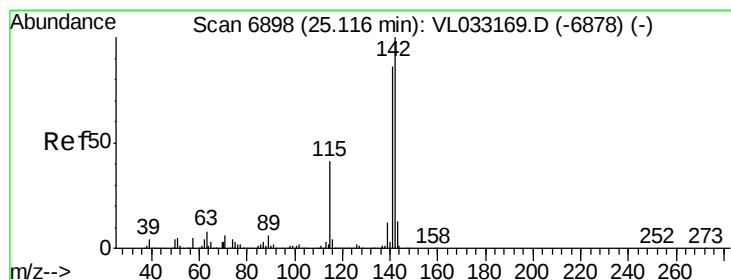
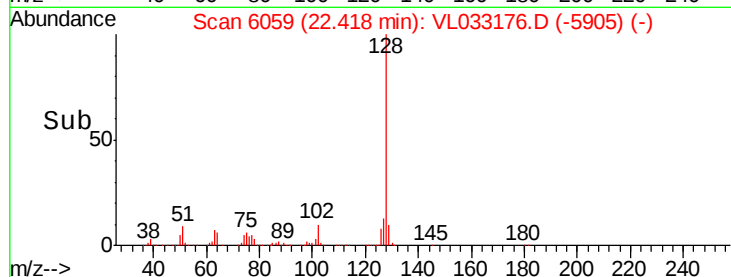
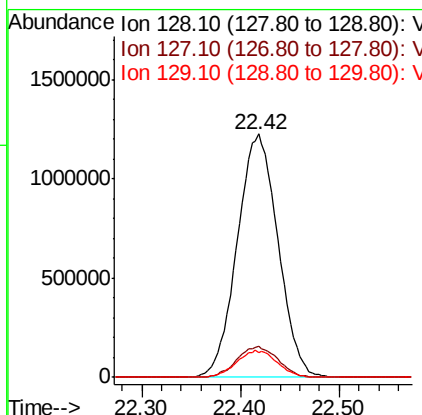
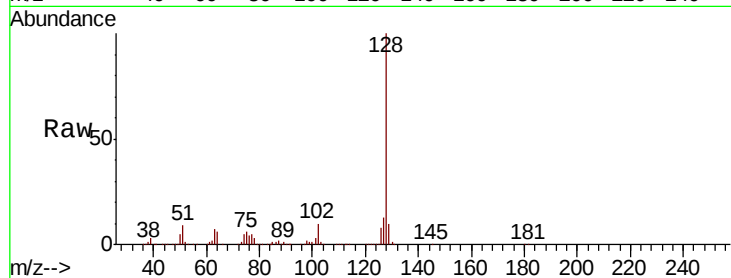
#79
Naphthalene
Concen: 8.141 ppbv
RT: 22.42 min Scan# 6059
Delta R.T. -0.00 min
Lab File: VL033176.D
Acq: 6 Feb 2019 6:59

Instrument :
MSVOA_L
ClientSampleId :
ICVVL020519

Tgt Ion	Ratio	Lower	Upper
128	100		
127	12.6	11.0	16.4
129	10.1	8.6	12.8

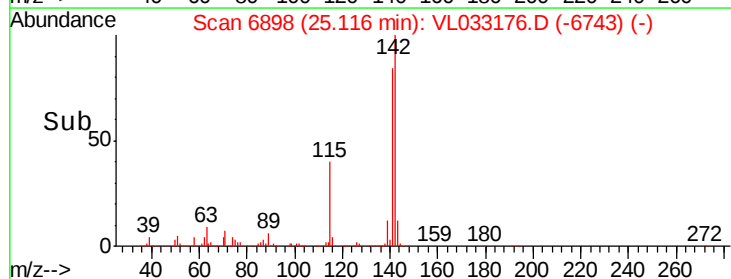
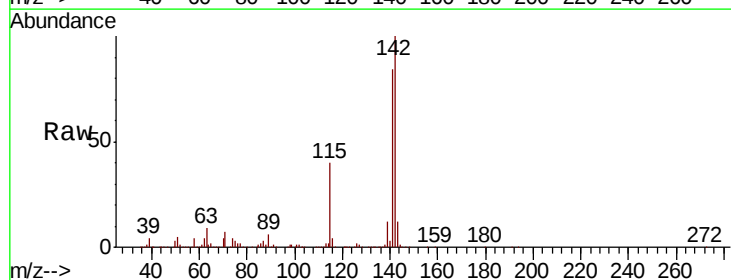
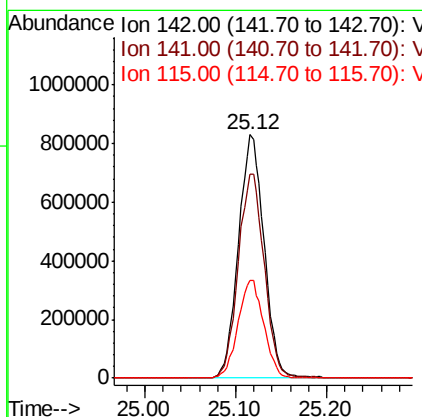
Manual Integrations
APPROVED

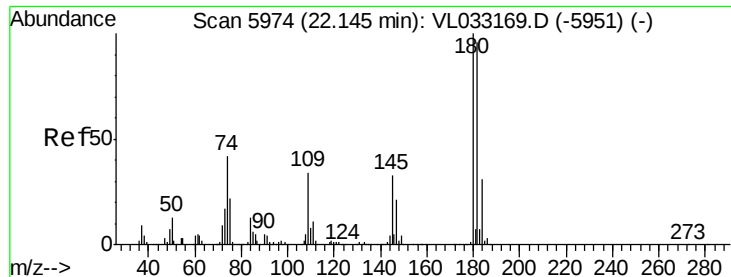
MMDadoda
2/20/2019 12:21:38 PM



#80
Naphthalene, 2-methyl-
Concen: 7.435 ppbv
RT: 25.12 min Scan# 6898
Delta R.T. -0.00 min
Lab File: VL033176.D
Acq: 6 Feb 2019 6:59

Tgt Ion	Ratio	Lower	Upper
142	100		
141	85.6	67.7	101.5
115	40.4	32.7	49.1





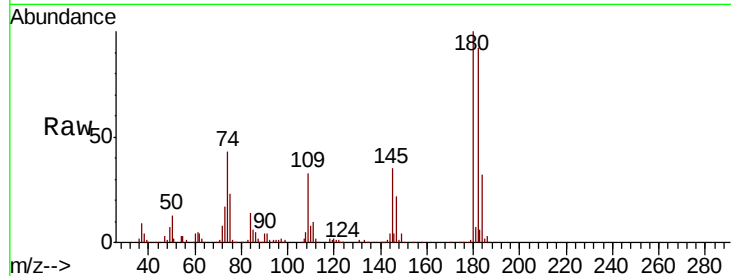
#81
 1,2,4-Trichlorobenzene
 Concen: 7.903 ppbv
 RT: 22.14 min Scan# 5972
 Delta R.T. -0.01 min
 Lab File: VL033176.D
 Acq: 6 Feb 2019 6:59

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL020519

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.7	75.8	113.8
184	30.5	24.3	36.5

Manual Integrations
 APPROVED

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Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 184.00 (183.70 to 184.70): V

