

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL111919\
 Data File : VL034383.D
 Acq On : 19 Nov 2019 17:33
 Operator : SY/AP
 Sample : VL1119ABS01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1119ABS01

Manual Integrations
 APPROVED

MMDadoda
 11/20/2019 3:53:52 PM

Quant Time: Nov 20 05:38:46 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111919AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Nov 20
 QLast Update : Wed Nov 20 03:30:54 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1007558	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.21	114	2084691	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.14	117	2219522m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.48	95	1786713	9.57	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.70%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.02	85	1837331	10.080	ppbv 99
3) Chlorodifluoromethane	2.96	51	1133988	9.020	ppbv 100
4) Chloromethane	3.11	50	695365	9.378	ppbv 99
5) Vinyl Chloride	3.23	62	630258	9.072	ppbv 92
6) Bromomethane	3.45	94	331919	9.495	ppbv 99
7) Chloroethane	3.54	64	231978	9.200	ppbv 98
8) Dichlorotetrafluoroethane	3.16	85	1453026	8.877	ppbv 100
9) Propene	2.98	41	512286	9.179	ppbv 97
10) Heptane	8.16	43	1367555	9.495	ppbv 100
11) Trichlorofluoromethane	3.94	101	1619636	8.928	ppbv 99
12) 1,1,2-Trichlorotrifluoroet	4.48	101	1088751	9.037	ppbv 100
13) Ethanol	3.59	45	118770	7.266	ppbv 93
14) Bromoethene	3.72	108	453219	9.252	ppbv 99
15) Acetone	3.84	43	1262240	8.749	ppbv 99
16) 1,3-Butadiene	3.30	39	592376	9.426	ppbv 100
17) tert-Butyl alcohol	4.29	59	1152884	9.506	ppbv 99
18) 1,1-Dichloroethene	4.28	96	493405	9.363	ppbv 90
19) Isopropyl Alcohol	3.96	45	936885	8.928	ppbv 100
20) Methylene Chloride	4.34	84	431652	8.437	ppbv 97
21) Allyl Chloride	4.41	41	845464	9.779	ppbv 98
22) trans-1,2-Dichloroethene	4.89	96	508873	9.579	ppbv 94
23) Vinyl Acetate	5.08	43	1872905	9.937	ppbv 99
24) 1,1-Dichloroethane	5.02	63	1344670	9.288	ppbv 99
25) Ethyl Acetate	5.69	43	2347886	9.120	ppbv 100
26) Hexane	5.70	57	1013335	9.160	ppbv 100
27) Carbon Disulfide	4.55	76	1261121	10.466	ppbv 98
28) Methyl tert-Butyl Ether	5.04	73	1735236	9.459	ppbv 100
29) Chloroform	5.77	83	1629150	9.094	ppbv 97
30) Cyclohexane	7.16	84	802482	9.595	ppbv 96
31) cis-1,2-Dichloroethene	5.56	61	1107192	9.685	ppbv 96
32) 1,1,1-Trichloroethane	6.54	97	1637679	9.750	ppbv 100
34) 2-Butanone	5.25	43	1578336	9.198	ppbv 99
35) Carbon Tetrachloride	7.04	117	1685945	9.406	ppbv 98
36) Benzene	6.92	78	1951723	9.366	ppbv 95
37) 1,2-Dichloroethane	6.33	62	1403585	9.066	ppbv 100
38) Trichloroethene	7.87	130	753037	8.805	ppbv 99
39) 1,2-Dichloropropane	7.65	63	813581	9.209	ppbv 96
40) 1,4-Dioxane	7.86	88	322913	9.207	ppbv # 100
41) Tetrahydrofuran	6.06	42	908507	9.439	ppbv 99
42) Bromodichloromethane	7.83	83	1810046	9.348	ppbv 100
43) Methyl Methacrylate	8.05	69	834723	9.657	ppbv 98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.90	57	3468102	9.106	ppbv	100
45) t-1,3-Dichloropropene	9.32	75	1144783	10.327	ppbv	96
46) cis-1,3-Dichloropropene	8.75	75	1263668	10.149	ppbv	99
47) 1,1,2-Trichloroethane	9.52	97	813968	9.114	ppbv	97
48) Dibromochloromethane	10.36	129	1473006	9.606	ppbv	99
49) Bromoform	13.10	173	1285963	9.395	ppbv	99
50) 4-Methyl-2-Pentanone	8.78	43	2327439	9.374	ppbv	100
51) 2-Hexanone	10.18	43	1971984	9.482	ppbv	99
52) Tetrachloroethene	11.28	164	740401	8.211	ppbv	94
53) Toluene	9.85	91	2230140	9.421	ppbv	99
54) 1,2-Dibromoethane	10.66	107	1233692	9.010	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.18	131	961004m	8.852	ppbv	
57) Chlorobenzene	12.20	112	1661522	8.281	ppbv	96
58) Ethyl Benzene	12.77	91	3050173	8.855	ppbv	99
59) m/p-Xylene	13.05	91	5038248m	16.922	ppbv	
60) o-Xylene	13.75	91	2508233	8.520	ppbv	99
61) Styrene	13.59	104	1891023	8.908	ppbv	99
62) Isopropylbenzene	14.73	105	3263066	8.381	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.74	83	1688086	7.629	ppbv	100
64) n-propylbenzene	15.63	120	836476	8.273	ppbv	95
65) tert-Butylbenzene	16.81	119	2850661	8.151	ppbv	99
66) Benzyl Chloride	17.06	91	1320916	9.818	ppbv	99
67) sec-Butylbenzene	17.36	105	3959553	8.094	ppbv	99
69) p-Isopropyltoluene	17.72	119	3330297	8.203	ppbv	100
70) n-Butylbenzene	18.62	91	3568285	8.168	ppbv	100
71) 2-Chlorotoluene	15.52	91	2553794	8.226	ppbv	99
72) 4-Ethyltoluene	15.91	105	2874764	8.452	ppbv	99
73) 1,3,5-Trimethylbenzene	16.06	105	2737058	8.221	ppbv	99
74) 1,2,4-Trimethylbenzene	16.83	105	2786120	7.878	ppbv #	91
75) 1,3-Dichlorobenzene	17.07	146	1581501	7.779	ppbv	100
76) 1,4-Dichlorobenzene	17.21	146	1588687	8.048	ppbv	99
77) 1,2-Dichlorobenzene	17.89	146	1548306	7.885	ppbv	99
78) Hexachloro-1,3-Butadiene	23.45	225	1521873	9.021	ppbv	99
79) Naphthalene	22.29	128	3067662	10.005	ppbv	99
80) Naphthalene, 2-methyl-	25.03	142	962686	6.954	ppbv	96
81) 1,2,4-Trichlorobenzene	22.02	180	1776186	9.430	ppbv	99

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

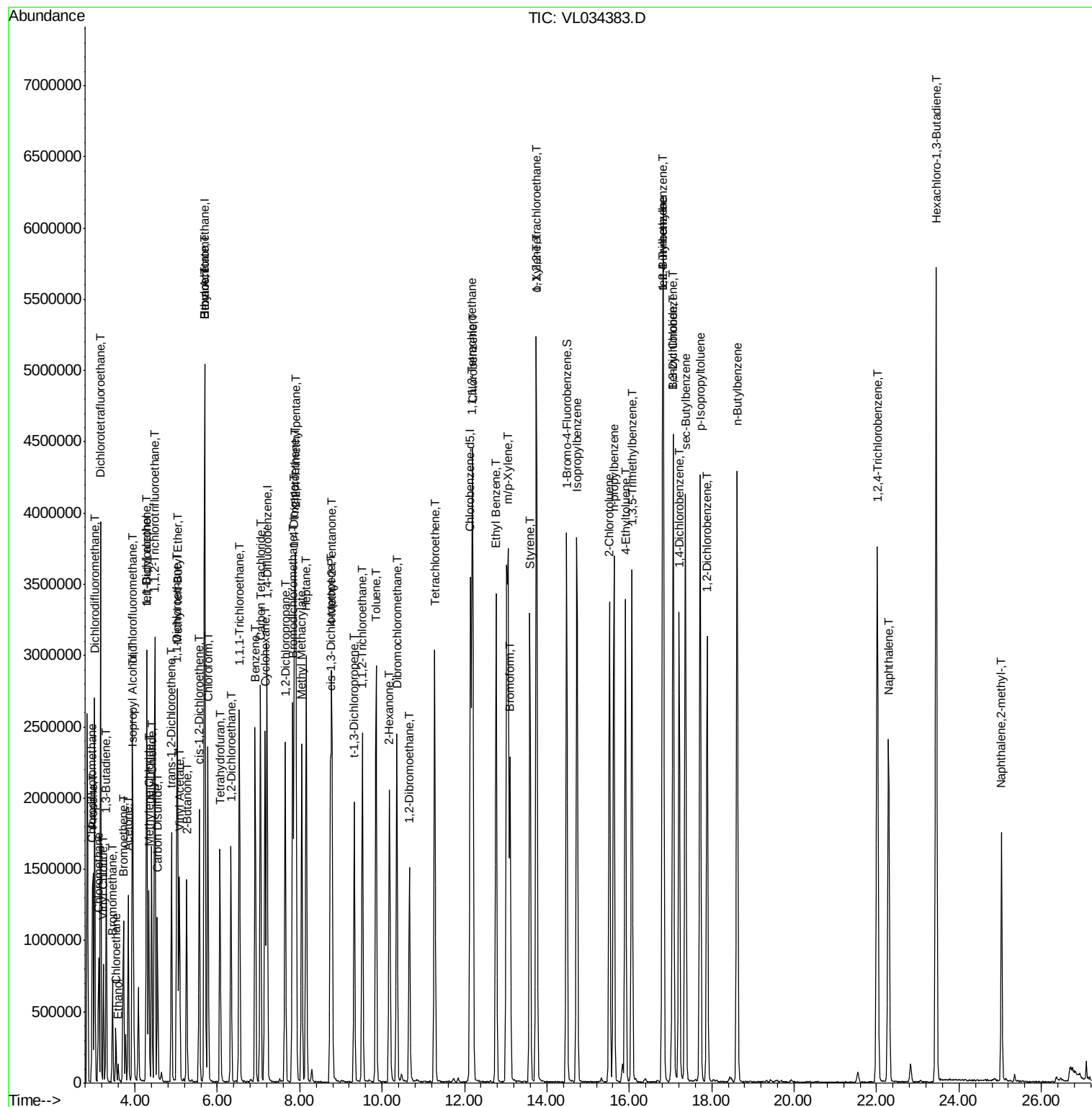
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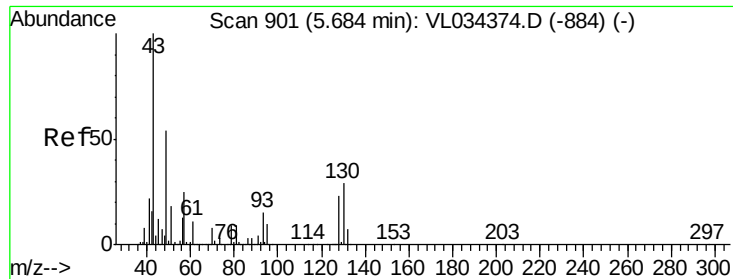
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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 min Scan# 901

Delta R.T. 0.00 min

Lab File: VL034383.D

Acq: 19 Nov 2019 17:33

Instrument :

MSVOA_L

ClientSampleId :

VL1119ABS01

Tot Ion: 49 Resp: 1007558

Ion Ratio Lower Upper

49 100

128 43.4 21.8 65.3

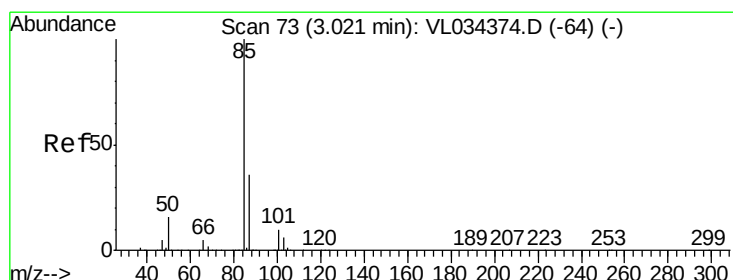
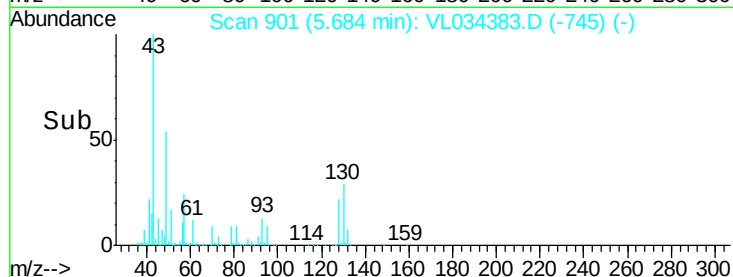
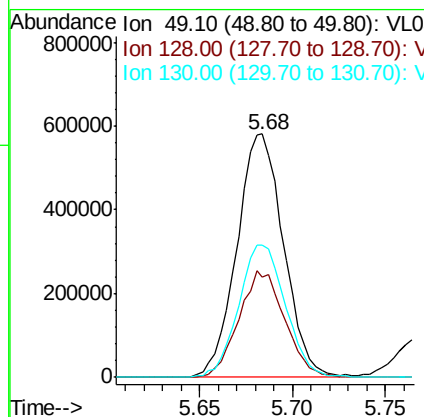
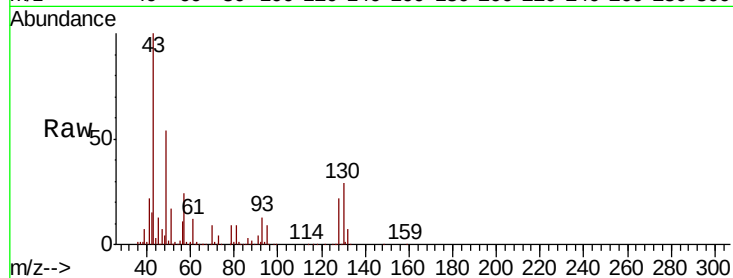
130 55.5 28.0 84.0

Manual Integrations

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#2

Dichlorodifluoromethane

Concen: 10.080 ppbv

RT: 3.02 min Scan# 73

Delta R.T. 0.00 min

Lab File: VL034383.D

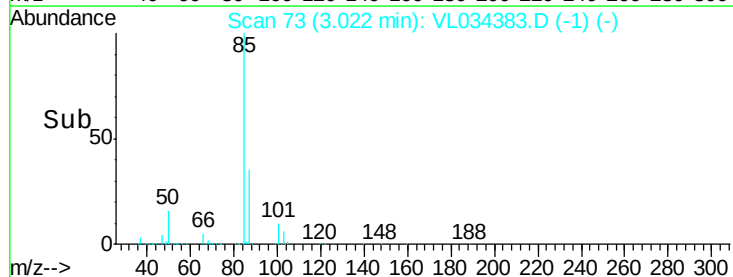
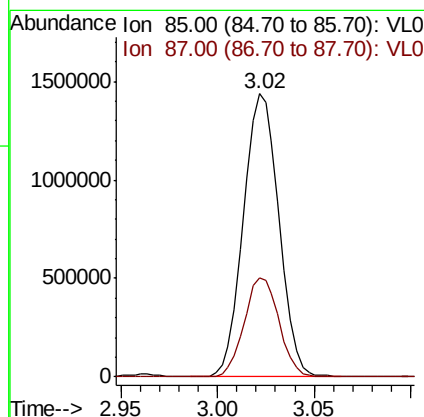
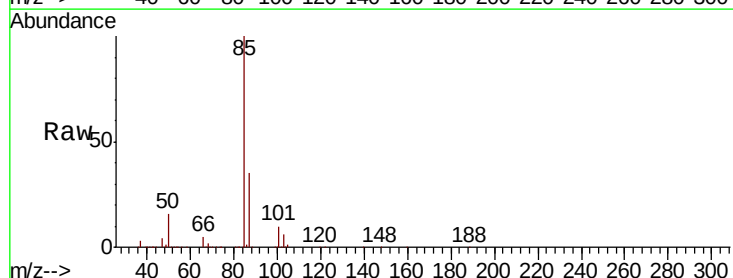
Acq: 19 Nov 2019 17:33

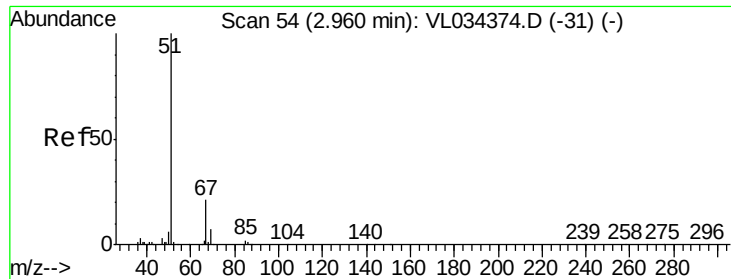
Tgt Ion: 85 Resp: 1837331

Ion Ratio Lower Upper

85 100

87 34.8 28.5 42.7





#3

Chlorodifluoromethane

Concen: 9.020 ppbv

RT: 2.96 min Scan# 54

Delta R.T. 0.00 min

Lab File: VL034383.D

Acq: 19 Nov 2019 17:33

Tot Ion: 51 Resp: 1133988

Ion Ratio Lower Upper

51 100

67 20.4 16.2 24.2

Instrument :

MSVOA_L

ClientSampleId :

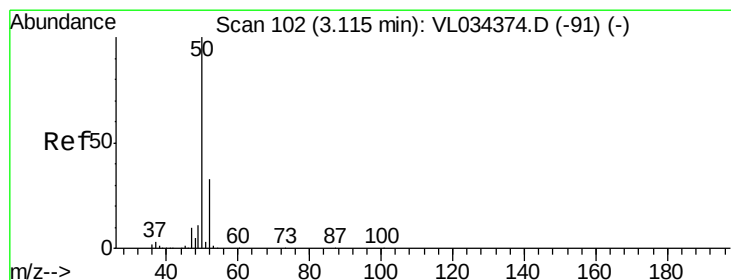
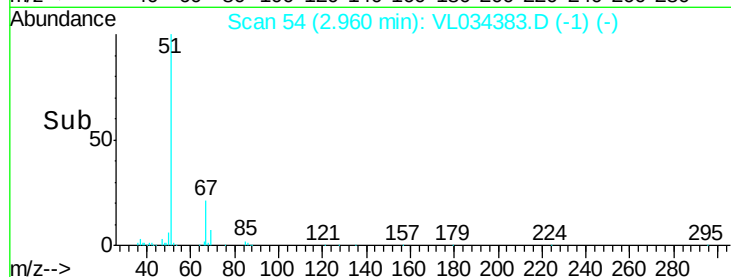
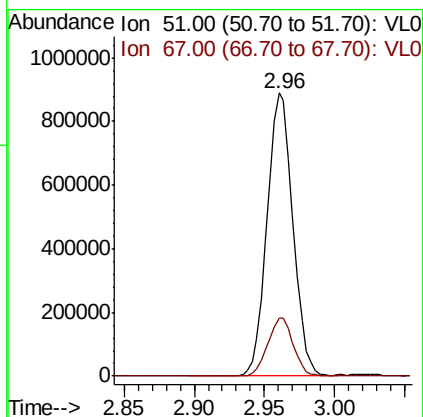
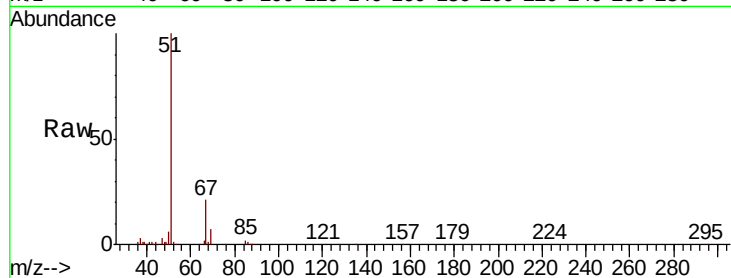
VL1119ABS01

Manual Integrations

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#4

Chloromethane

Concen: 9.378 ppbv

RT: 3.11 min Scan# 102

Delta R.T. 0.00 min

Lab File: VL034383.D

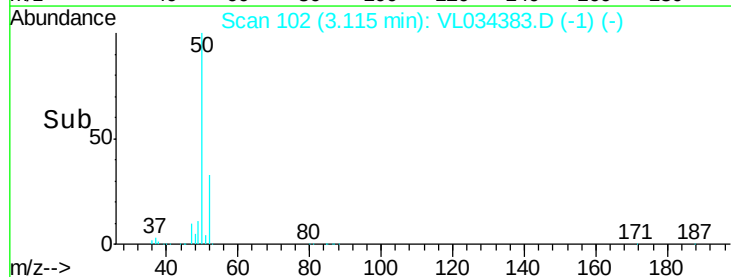
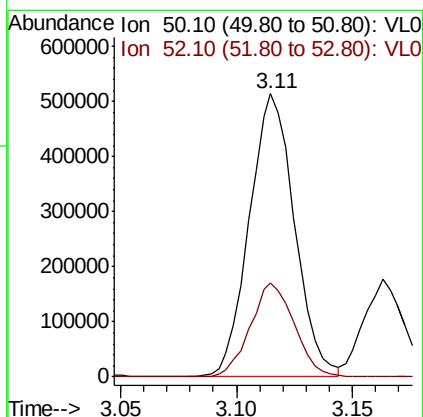
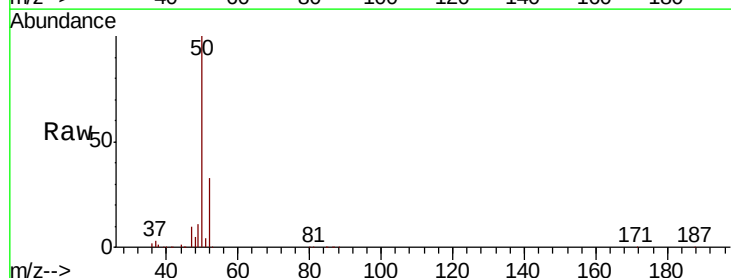
Acq: 19 Nov 2019 17:33

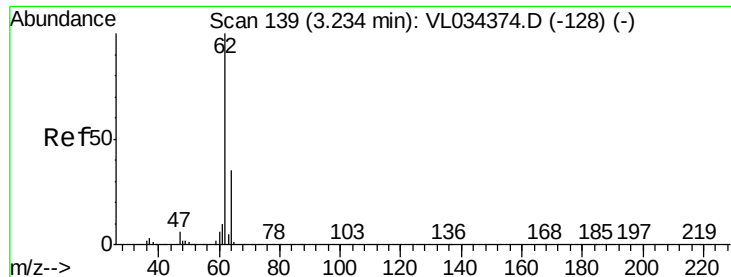
Tgt Ion: 50 Resp: 695365

Ion Ratio Lower Upper

50 100

52 33.1 26.8 40.2





#5

Vinyl Chloride

Concen: 9.072 ppbv

RT: 3.23 min Scan# 139

Delta R.T. 0.00 min

Lab File: VL034383.D

Acq: 19 Nov 2019 17:33

Instrument :

MSVOA_L

ClientSampleId :

VL1119ABS01

Tot Ion: 62 Resp: 630258

Ion Ratio Lower Upper

62 100

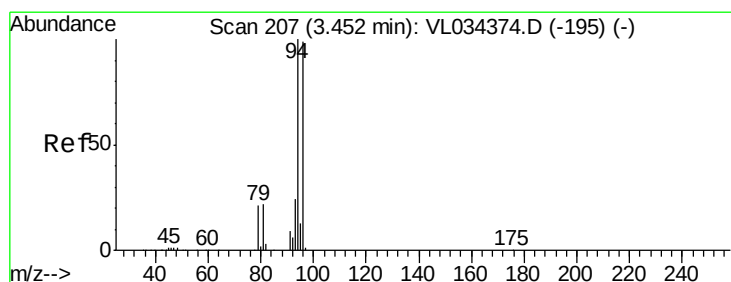
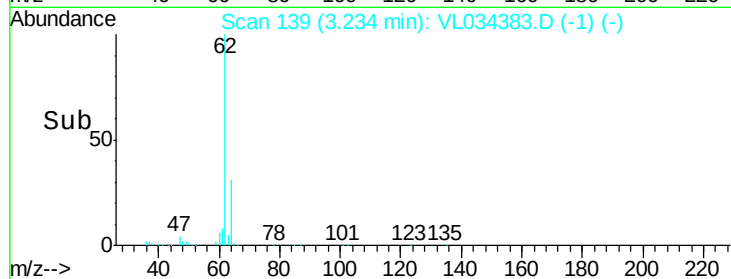
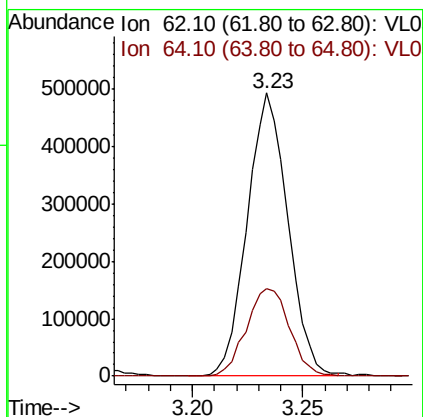
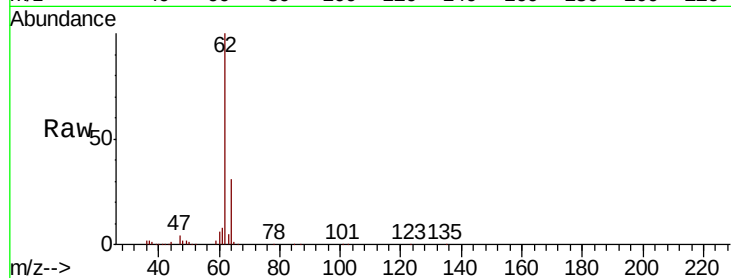
64 30.9 28.4 42.6

Manual Integrations

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#6

Bromomethane

Concen: 9.495 ppbv

RT: 3.45 min Scan# 207

Delta R.T. 0.00 min

Lab File: VL034383.D

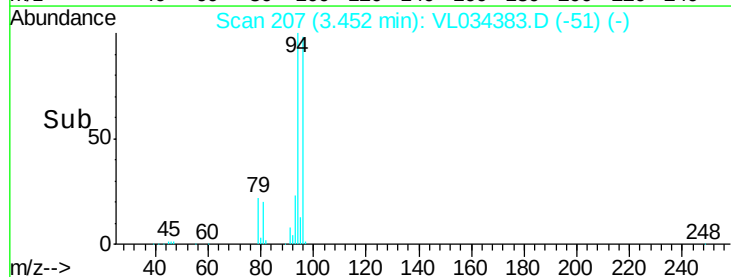
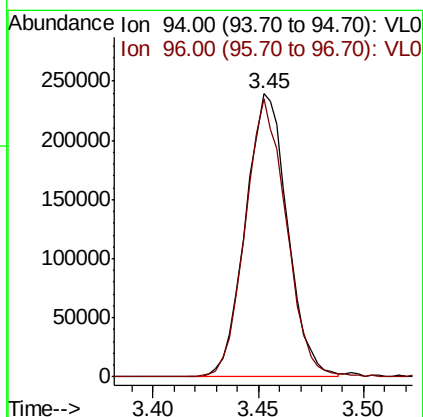
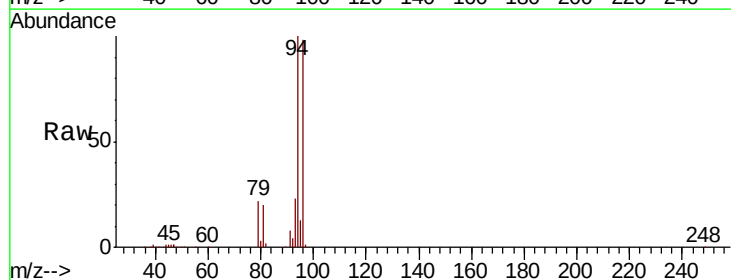
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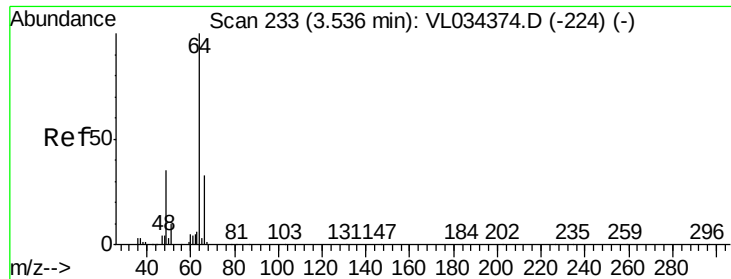
Tgt Ion: 94 Resp: 331919

Ion Ratio Lower Upper

94 100

96 98.2 79.5 119.3





#7

Chloroethane

Concen: 9.200 ppbv

RT: 3.54 min Scan# 234

Delta R.T. 0.00 min

Lab File: VL034383.D

Acq: 19 Nov 2019 17:33

Instrument :

MSVOA_L

ClientSampleId :

VL1119ABS01

Tot Ion: 64 Resp: 231978

Ion Ratio Lower Upper

64 100

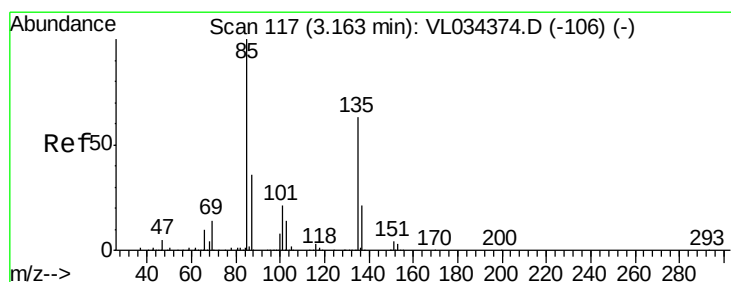
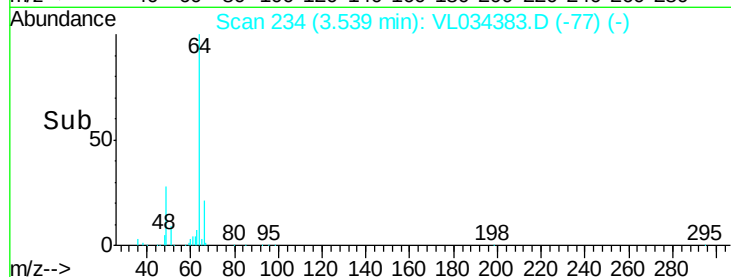
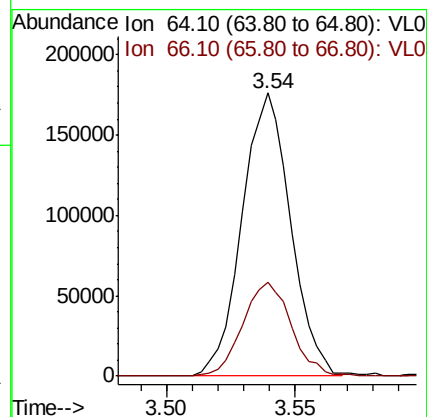
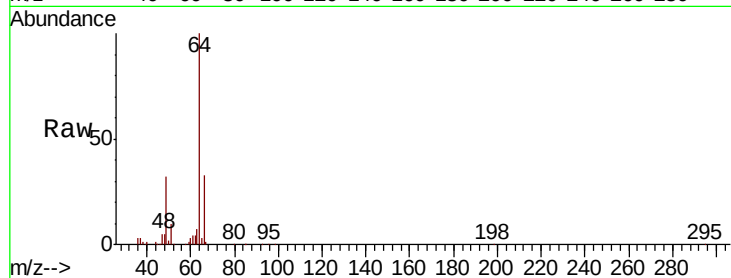
66 33.4 26.0 39.0

Manual Integrations

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#8

Dichlorotetrafluoroethane

Concen: 8.877 ppbv

RT: 3.16 min Scan# 117

Delta R.T. 0.00 min

Lab File: VL034383.D

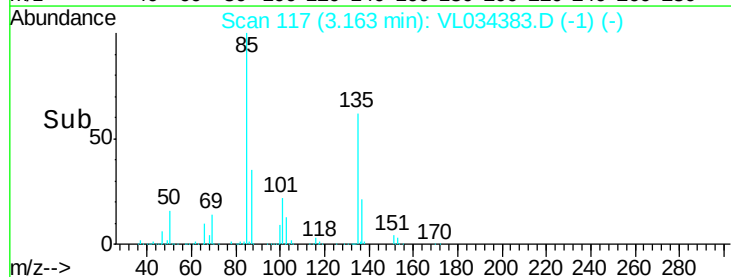
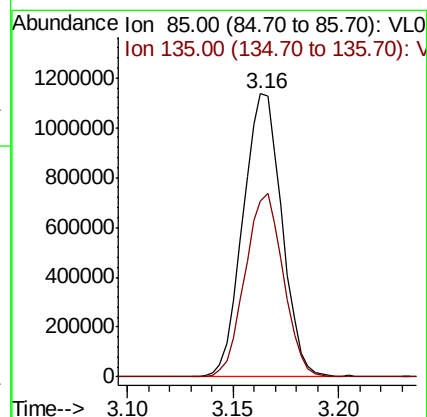
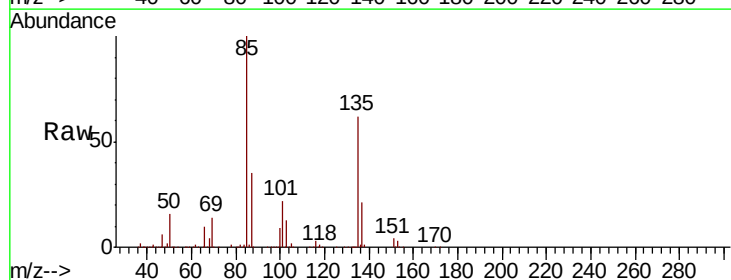
Acq: 19 Nov 2019 17:33

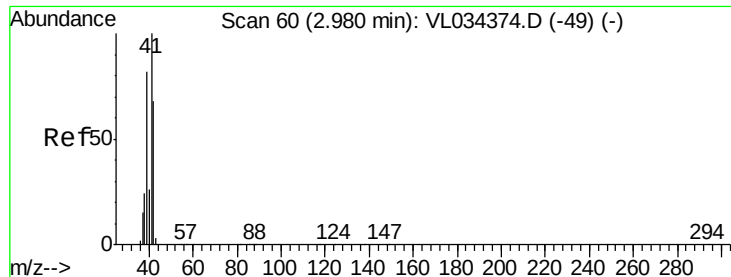
Tgt Ion: 85 Resp: 1453026

Ion Ratio Lower Upper

85 100

135 63.9 51.1 76.7





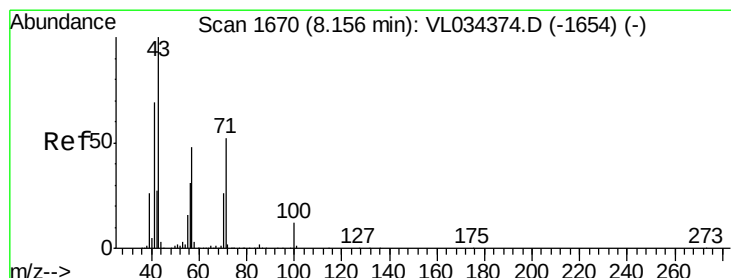
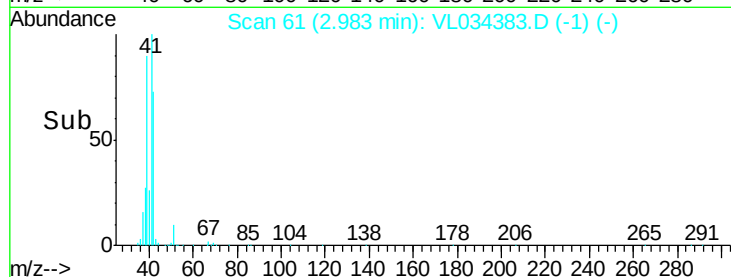
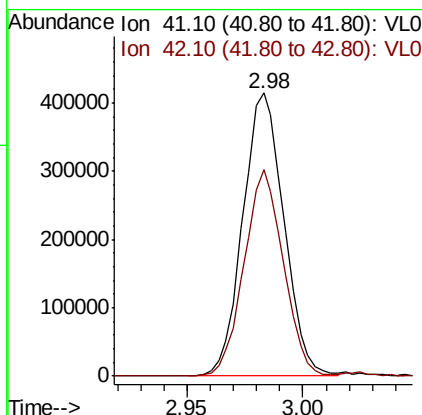
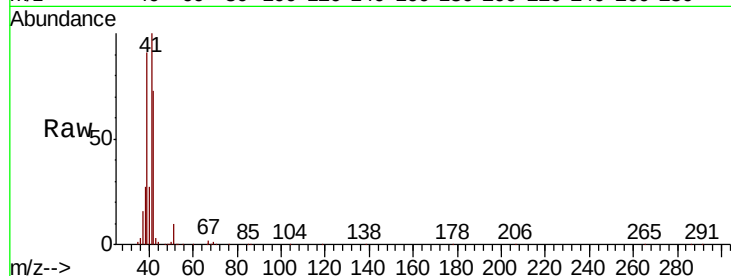
#9
 Propene
 Concen: 9.179 ppbv
 RT: 2.98 min Scan# 61
 Delta R.T. 0.00 min
 Lab File: VL034383.D
 Acq: 19 Nov 2019 17:33

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1119ABS01

Tot Ion: 41 Resp: 512286
 Ion Ratio Lower Upper
 41 100
 42 70.8 54.6 82.0

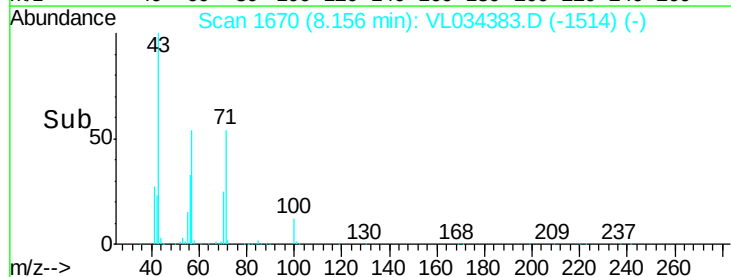
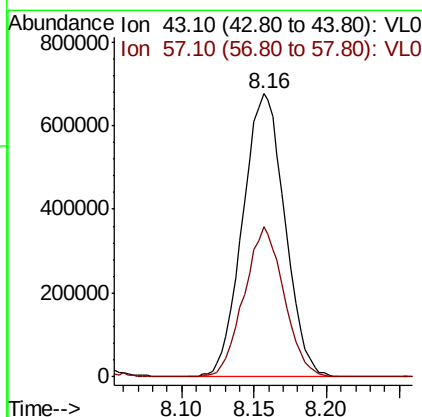
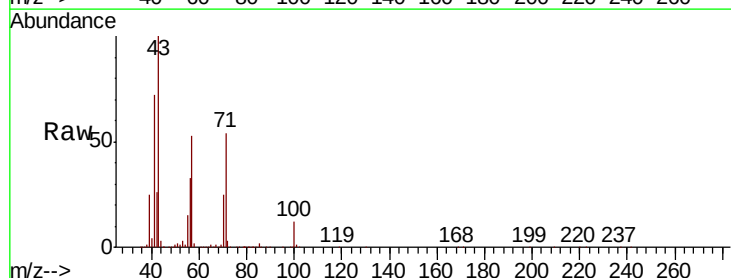
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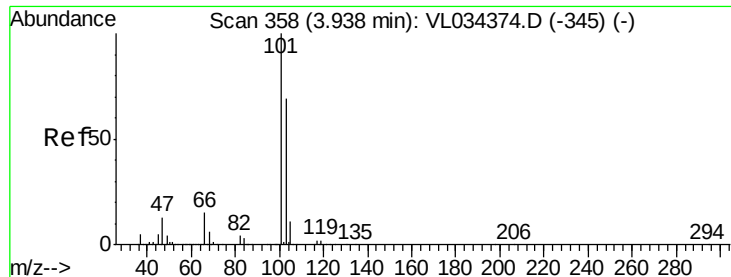
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#10
 Heptane
 Concen: 9.495 ppbv
 RT: 8.16 min Scan# 1670
 Delta R.T. 0.00 min
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Tgt Ion: 43 Resp: 1367555
 Ion Ratio Lower Upper
 43 100
 57 50.4 40.2 60.2





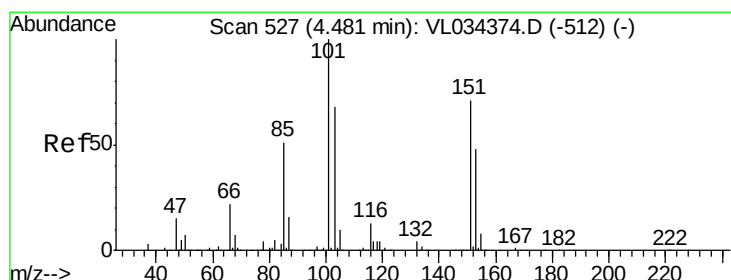
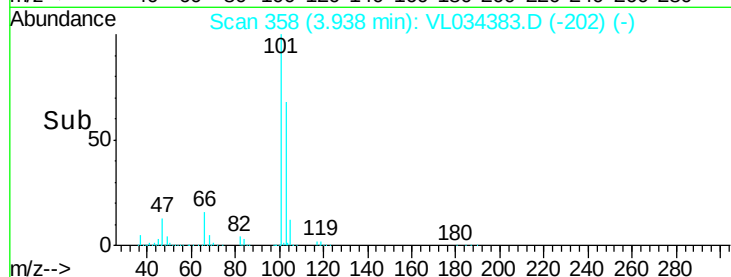
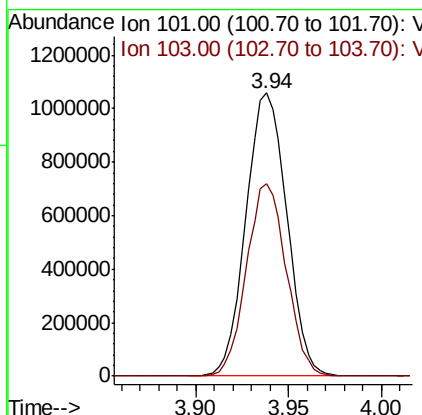
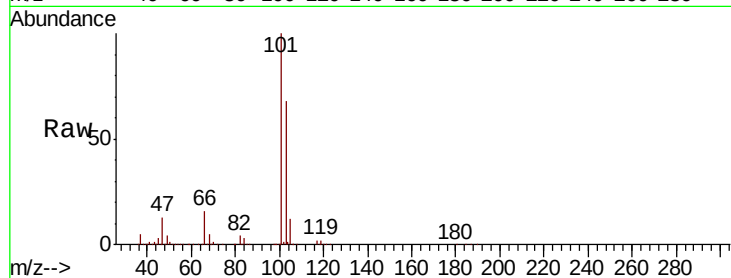
#11
 Trichlorofluoromethane
 Concen: 8.928 ppbv
 RT: 3.94 min Scan# 358
 Delta R.T. 0.00 min
 Lab File: VL034383.D
 Acq: 19 Nov 2019 17:33

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1119ABS01

Tot Ion:101 Resp: 1619636
 Ion Ratio Lower Upper
 101 100
 103 68.1 55.4 83.0

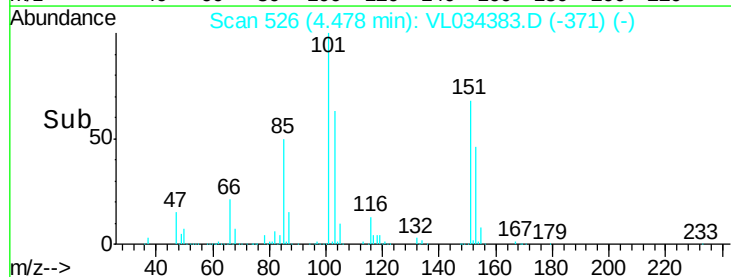
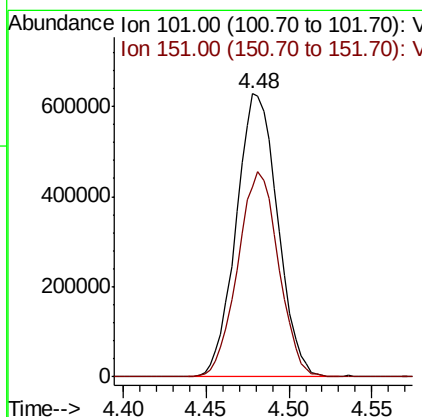
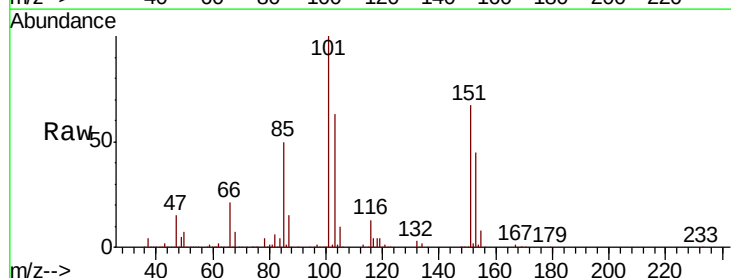
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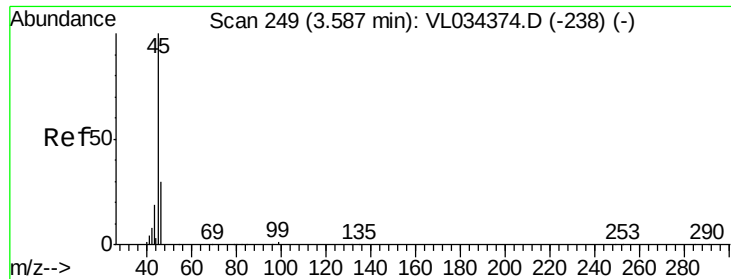
MMDadoda
 11/20/2019 3:53:52 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.037 ppbv
 RT: 4.48 min Scan# 526
 Delta R.T. -0.00 min
 Lab File: VL034383.D
 Acq: 19 Nov 2019 17:33

Tgt Ion:101 Resp: 1088751
 Ion Ratio Lower Upper
 101 100
 151 71.8 57.4 86.2





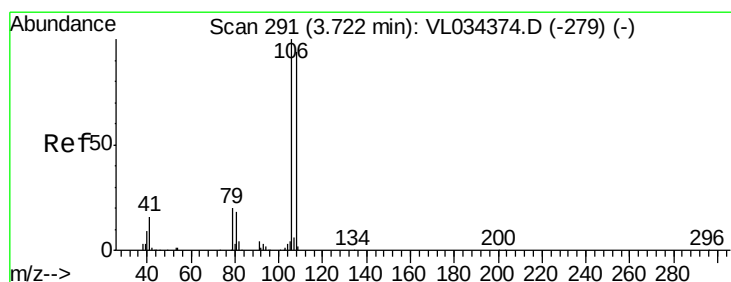
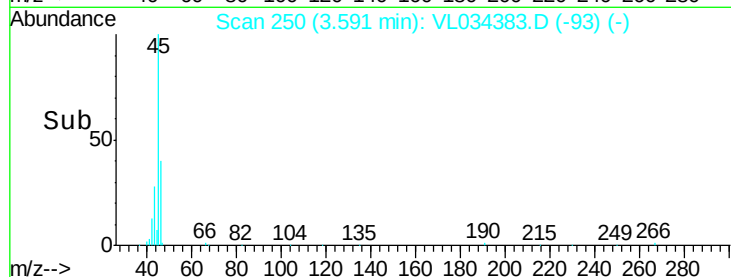
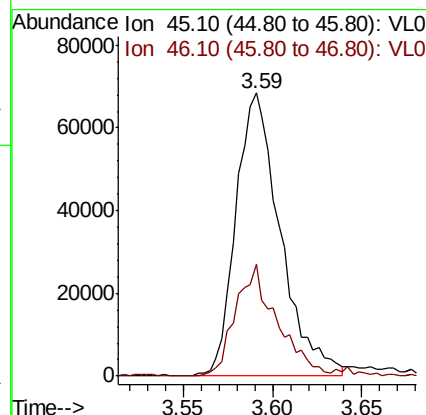
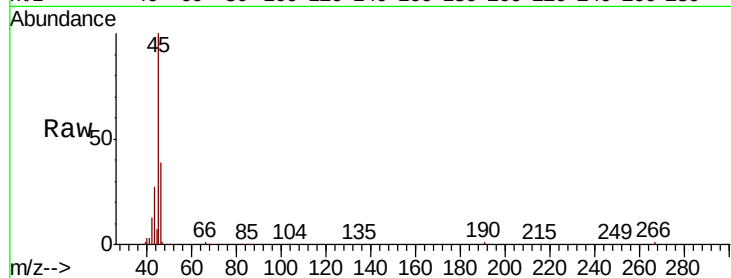
#13
Ethanol
Concen: 7.266 ppbv
RT: 3.59 min Scan# 250
Delta R.T. 0.00 min
Lab File: VL034383.D
Acq: 19 Nov 2019 17:33

Instrument :
MSVOA_L
ClientSampleId :
VL1119ABS01

Tot Ion	Ratio	Lower	Upper
45	100		
46	38.5	13.8	55.4

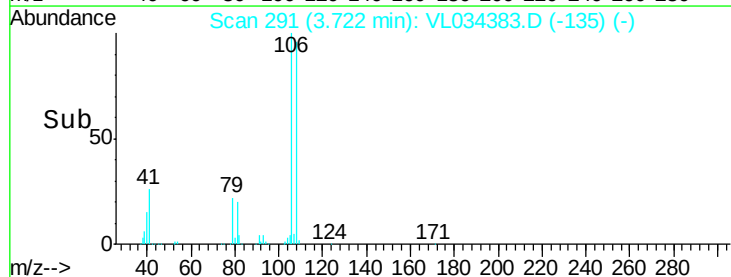
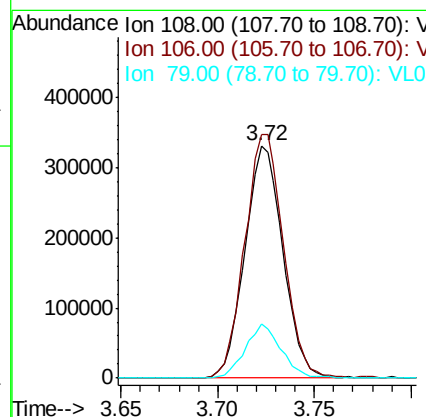
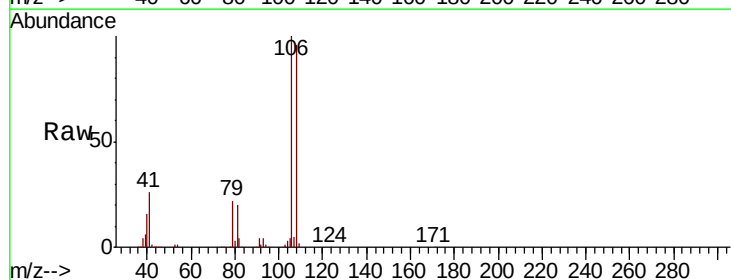
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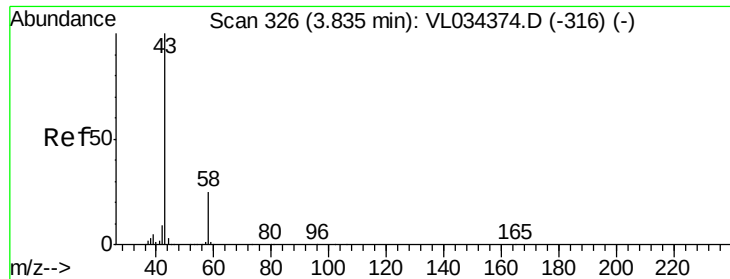
MMDadoda
11/20/2019 3:53:52 PM



#14
Bromoethene
Concen: 9.252 ppbv
RT: 3.72 min Scan# 291
Delta R.T. 0.00 min
Lab File: VL034383.D
Acq: 19 Nov 2019 17:33

Tgt Ion	Ratio	Lower	Upper
108	100		
106	107.4	85.7	128.5
79	22.4	17.2	25.8





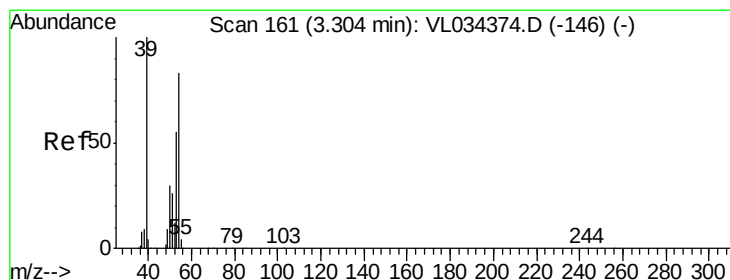
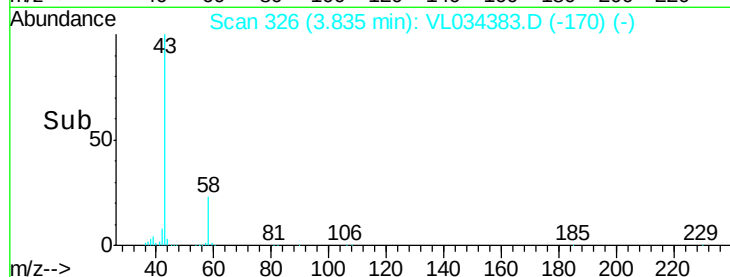
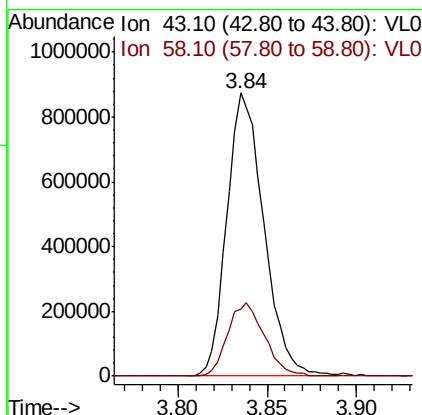
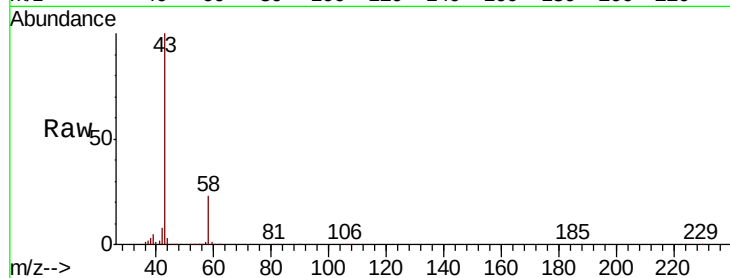
#15
Acetone
Concen: 8.749 ppbv
RT: 3.84 min Scan# 326
Delta R.T. 0.00 min
Lab File: VL034383.D
Acq: 19 Nov 2019 17:33

Instrument :
MSVOA_L
ClientSampleId :
VL1119ABS01

Tot Ion: 43 Resp: 1262240
Ion Ratio Lower Upper
43 100
58 25.9 20.2 30.4

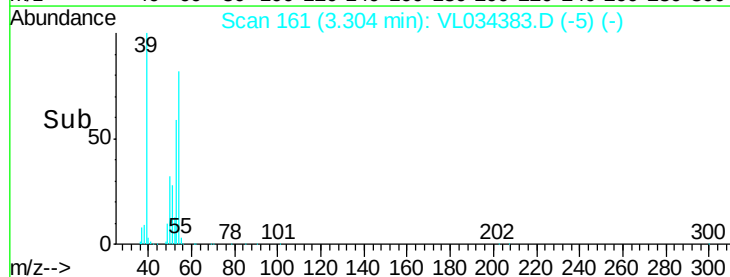
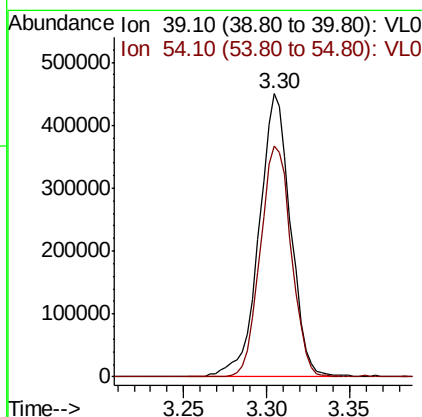
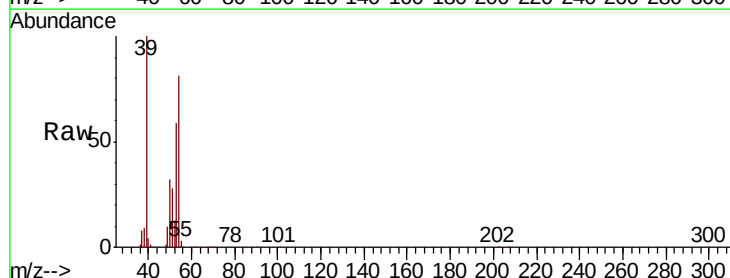
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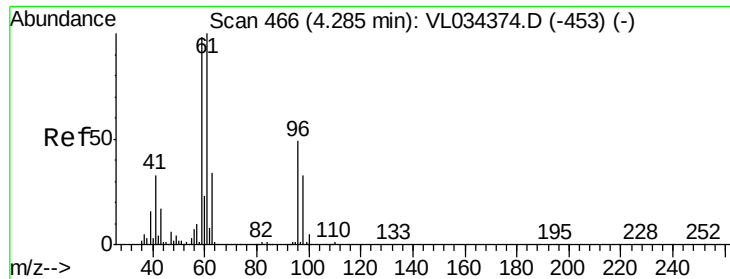
MMDadoda
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#16
1,3-Butadiene
Concen: 9.426 ppbv
RT: 3.30 min Scan# 161
Delta R.T. 0.00 min
Lab File: VL034383.D
Acq: 19 Nov 2019 17:33

Tgt Ion: 39 Resp: 592376
Ion Ratio Lower Upper
39 100
54 80.8 64.7 97.1





#17

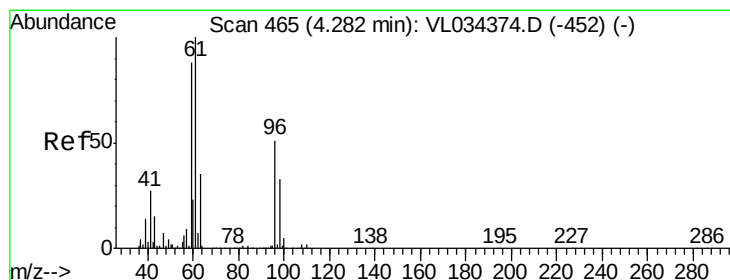
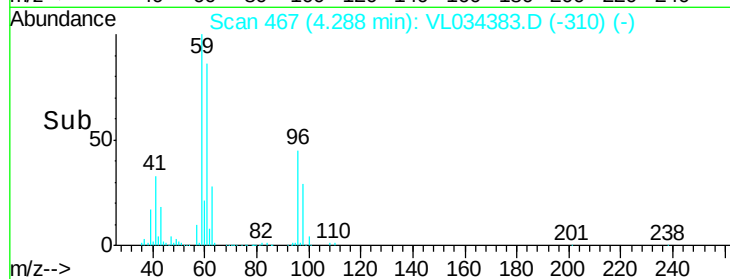
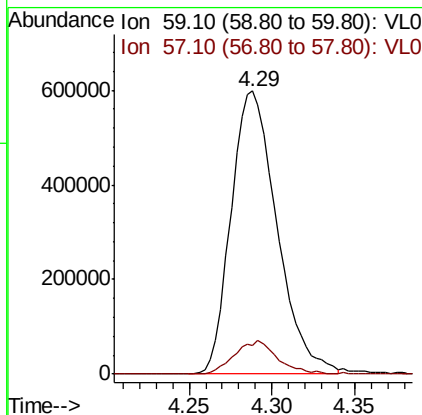
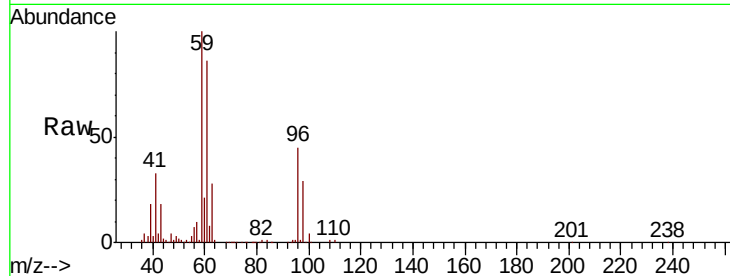
tert-Butyl alcohol
Concen: 9.506 ppbv
RT: 4.29 min Scan# 467
Delta R.T. 0.00 min
Lab File: VL034383.D
Acq: 19 Nov 2019 17:33

Instrument :
MSVOA_L
ClientSampleId :
VL1119ABS01

Tot Ion: 59 Resp: 1152884
Ion Ratio Lower Upper
59 100
57 11.5 8.8 13.2

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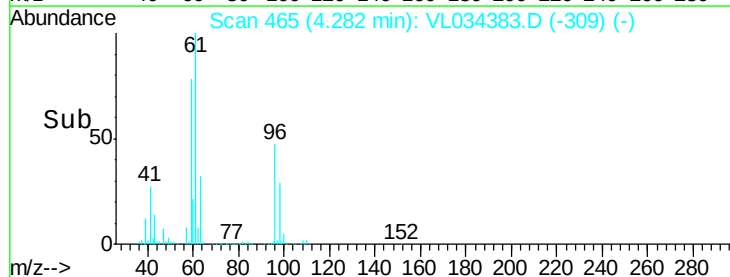
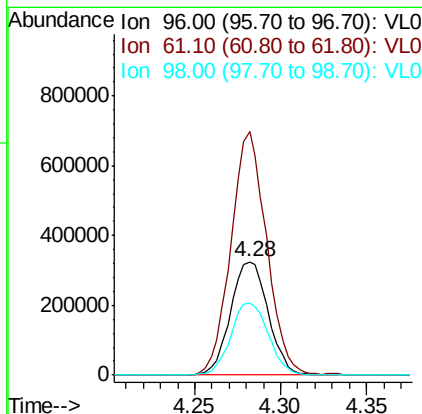
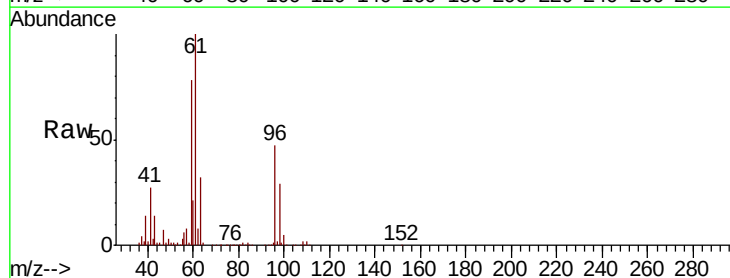
MMDadoda
11/20/2019 3:53:52 PM

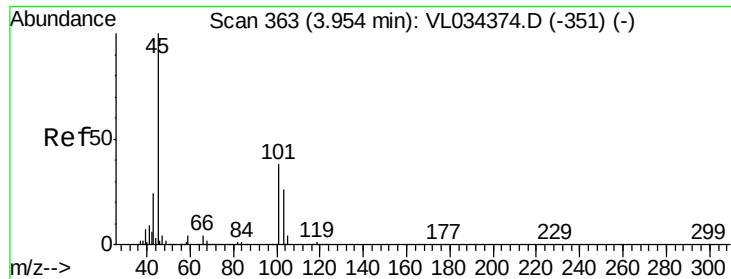


#18

1,1-Dichloroethene
Concen: 9.363 ppbv
RT: 4.28 min Scan# 465
Delta R.T. 0.00 min
Lab File: VL034383.D
Acq: 19 Nov 2019 17:33

Tgt Ion: 96 Resp: 493405
Ion Ratio Lower Upper
96 100
61 214.2 155.6 233.4
98 62.9 51.6 77.4





#19

Isopropyl Alcohol

Concen: 8.928 ppbv

RT: 3.96 min Scan# 364

Delta R.T. 0.00 min

Lab File: VL034383.D

Acq: 19 Nov 2019 17:33

Instrument :

MSVOA_L

ClientSampleId :

VL1119ABS01

Tot Ion: 45 Resp: 936885

Ion Ratio Lower Upper

45 100

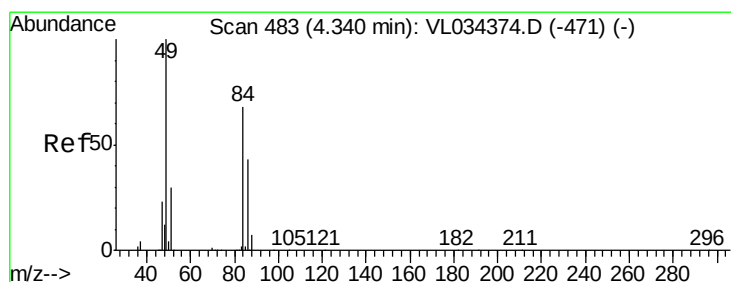
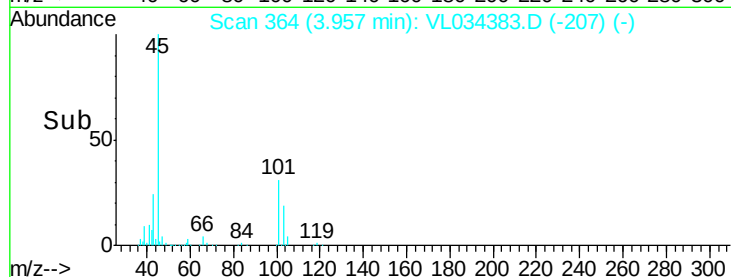
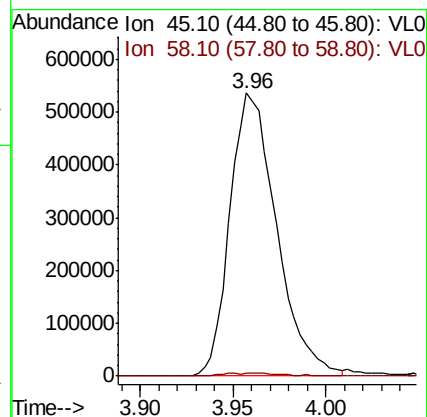
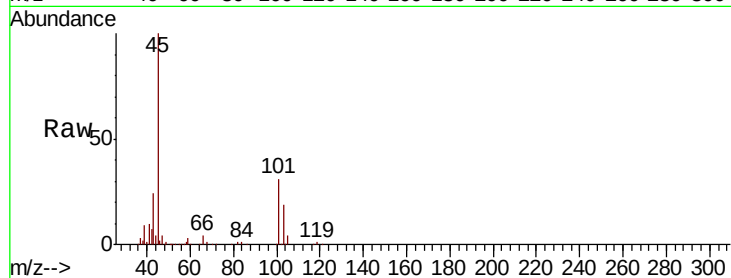
58 1.7 1.3 1.9

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#20

Methylene Chloride

Concen: 8.437 ppbv

RT: 4.34 min Scan# 482

Delta R.T. -0.00 min

Lab File: VL034383.D

Acq: 19 Nov 2019 17:33

Tgt Ion: 84 Resp: 431652

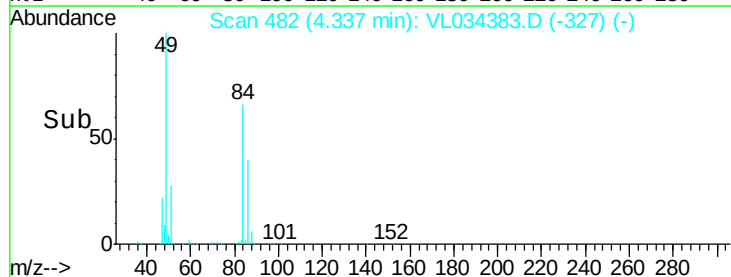
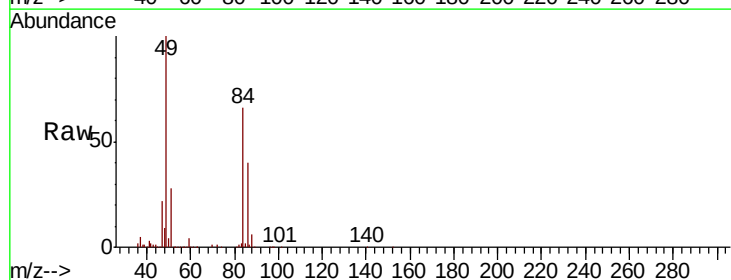
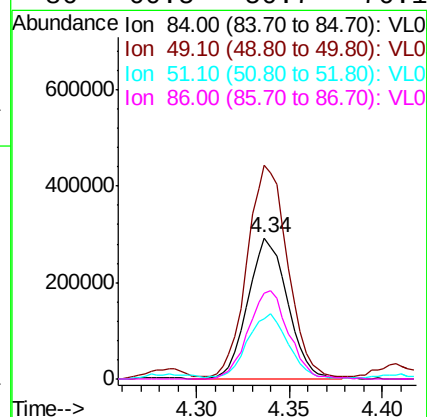
Ion Ratio Lower Upper

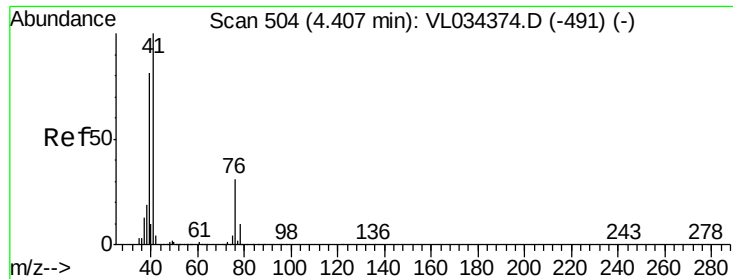
84 100

49 149.9 116.8 175.2

51 42.2 35.6 53.4

86 60.5 50.7 76.1





#21

Allvl Chloride

Concen: 9.779 ppbv

RT: 4.41 min Scan# 504

Delta R.T. 0.00 min

Lab File: VL034383.D

Acq: 19 Nov 2019 17:33

Instrument :

MSVOA_L

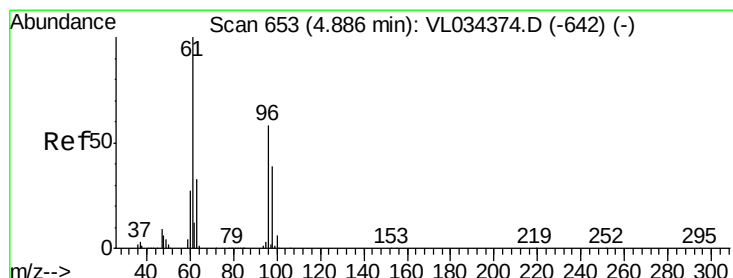
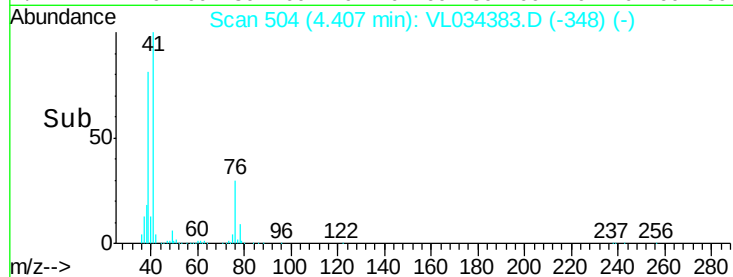
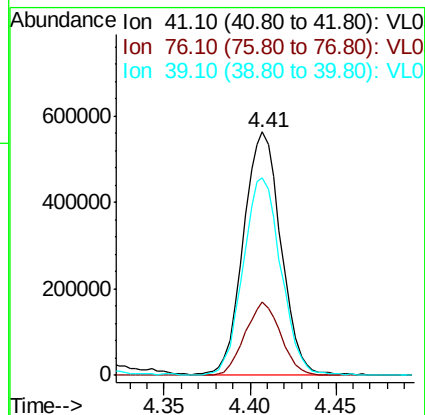
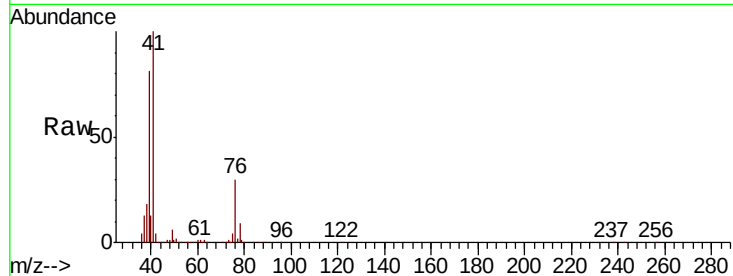
ClientSampleId :

VL1119ABS01

Tot Ion:	41	Resp:	845464
Ion Ratio	Lower	Upper	
41	100		
76	29.0	24.2	36.2
39	82.0	66.9	100.3

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#22

trans-1,2-Dichloroethene

Concen: 9.579 ppbv

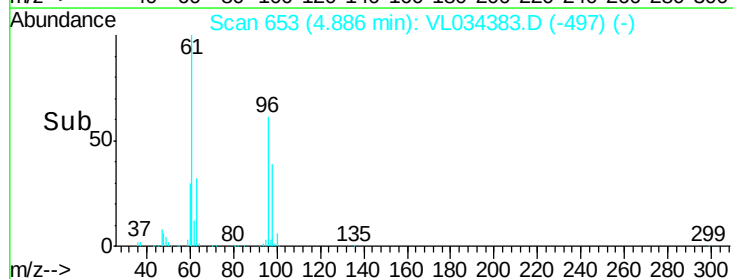
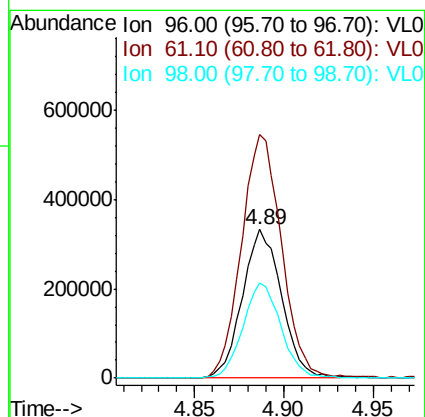
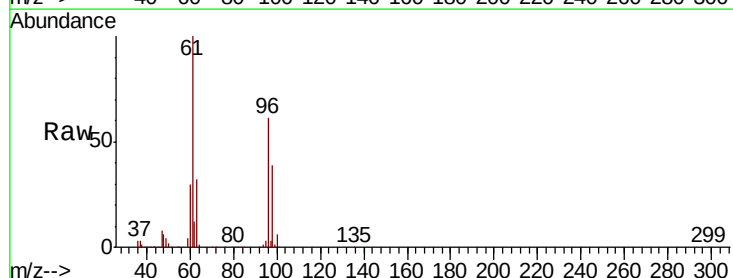
RT: 4.89 min Scan# 653

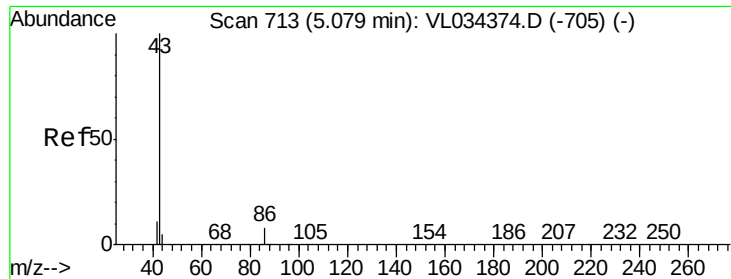
Delta R.T. 0.00 min

Lab File: VL034383.D

Acq: 19 Nov 2019 17:33

Tgt Ion:	96	Resp:	508873
Ion Ratio	Lower	Upper	
96	100		
61	163.7	137.9	206.9
98	64.0	53.5	80.3





#23

Vinyl Acetate

Concen: 9.937 ppbv

RT: 5.08 min Scan# 713

Delta R.T. 0.00 min

Lab File: VL034383.D

Acq: 19 Nov 2019 17:33

Tot Ion: 43 Resp: 1872905

Ion Ratio Lower Upper

43 100

86 7.5 5.8 8.6

42 10.7 8.9 13.3

44 5.5 4.0 6.0

Instrument :

MSVOA_L

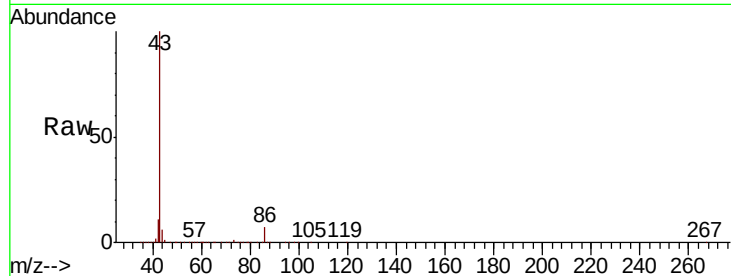
ClientSampleId :

VL1119ABS01

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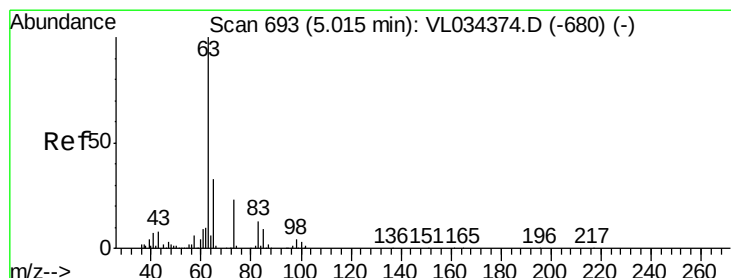
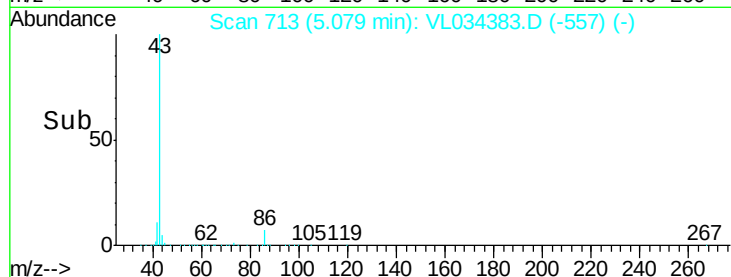
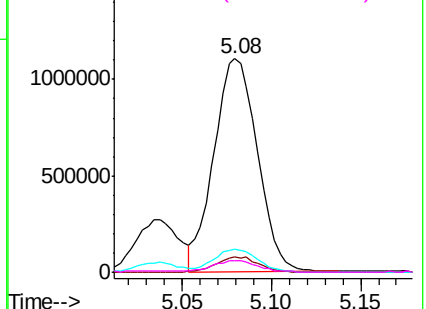


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 9.288 ppbv

RT: 5.02 min Scan# 693

Delta R.T. 0.00 min

Lab File: VL034383.D

Acq: 19 Nov 2019 17:33

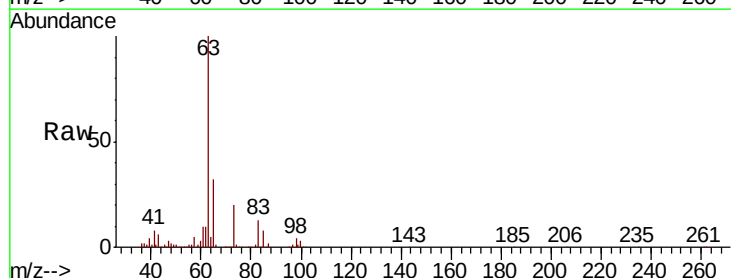
Tgt Ion: 63 Resp: 1344670

Ion Ratio Lower Upper

63 100

98 4.0 1.9 5.7

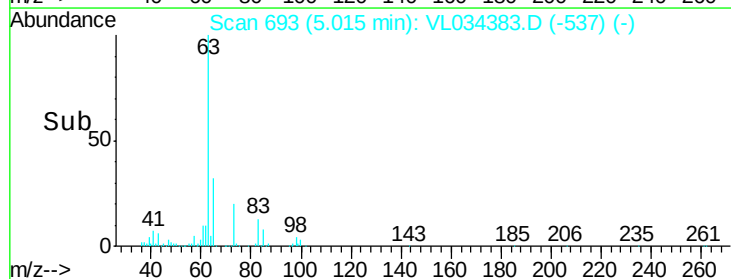
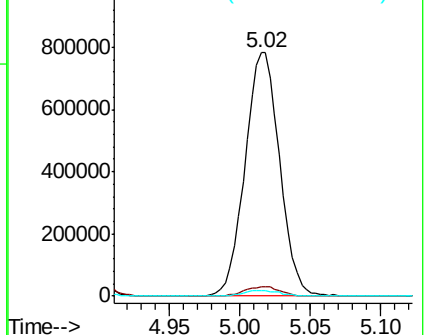
100 2.5 1.4 4.0

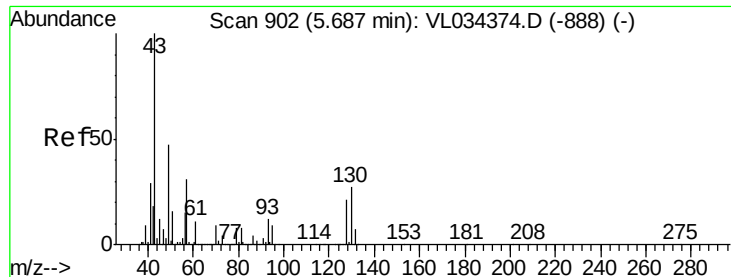


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





#25

Ethyl Acetate

Concen: 9.120 ppbv

RT: 5.69 min Scan# 902

Delta R.T. 0.00 min

Lab File: VL034383.D

Acq: 19 Nov 2019 17:33

Instrument :

MSVOA_L

ClientSampleId :

VL1119ABS01

Tot Ion: 43 Resp: 2347886

Ion Ratio Lower Upper

43 100

45 10.4 8.2 12.4

61 9.7 7.5 11.3

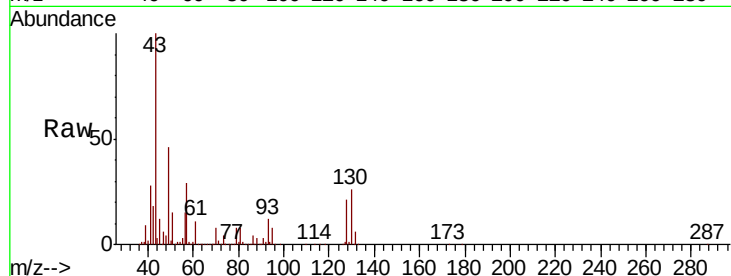
70 7.3 5.7 8.5

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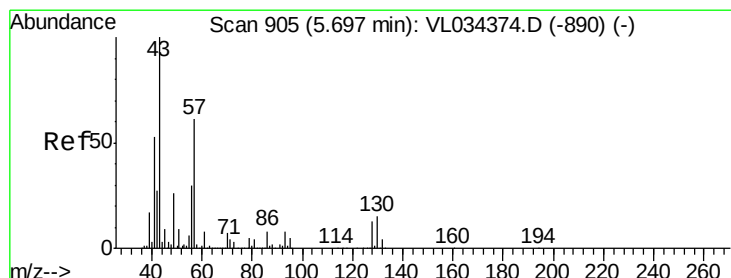
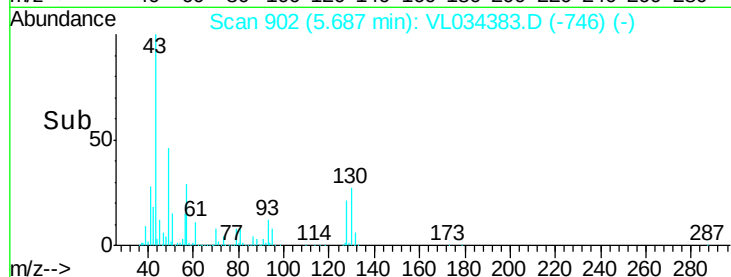
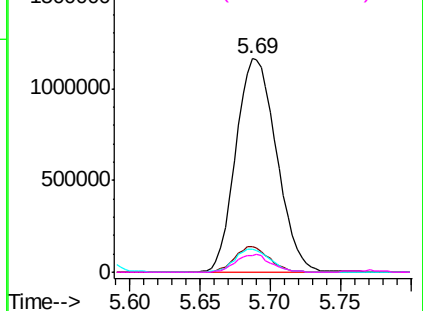


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 9.160 ppbv

RT: 5.70 min Scan# 906

Delta R.T. 0.00 min

Lab File: VL034383.D

Acq: 19 Nov 2019 17:33

Tgt Ion: 57 Resp: 1013335

Ion Ratio Lower Upper

57 100

41 92.9 75.0 112.4

43 233.1 186.6 279.8

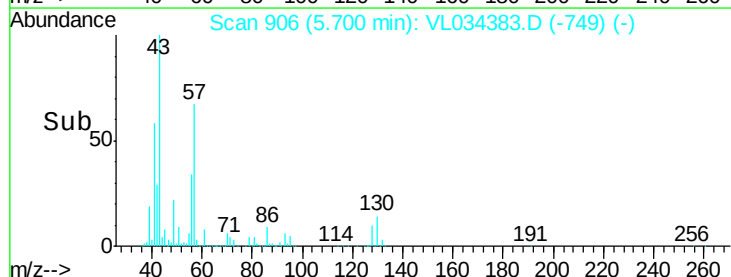
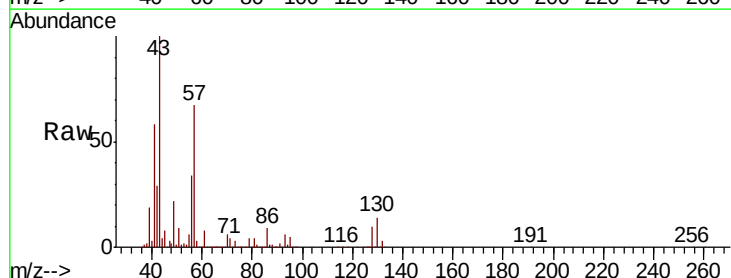
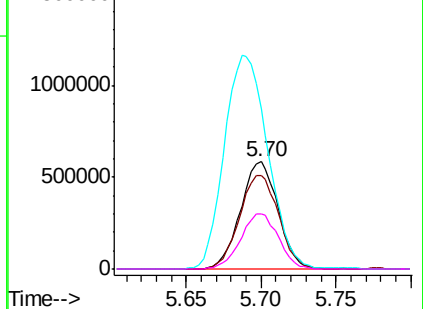
56 52.2 41.5 62.3

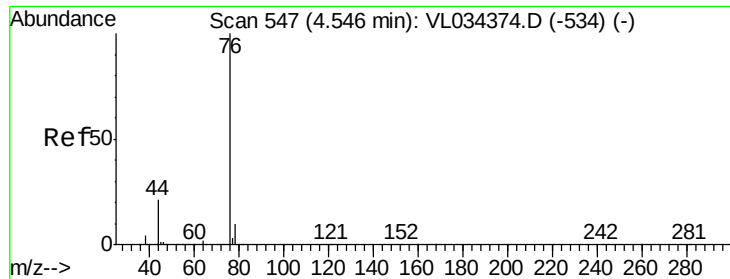
Abundance Ion 57.10 (56.80 to 57.80): VL0

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: 10.466 ppbv

RT: 4.55 min Scan# 547

Delta R.T. 0.00 min

Lab File: VL034383.D

Acq: 19 Nov 2019 17:33

Instrument :

MSVOA_L

ClientSampleId :

VL1119ABS01

Tot Ion: 76 Resp: 1261121

Ion Ratio Lower Upper

76 100

44 20.0 17.0 25.4

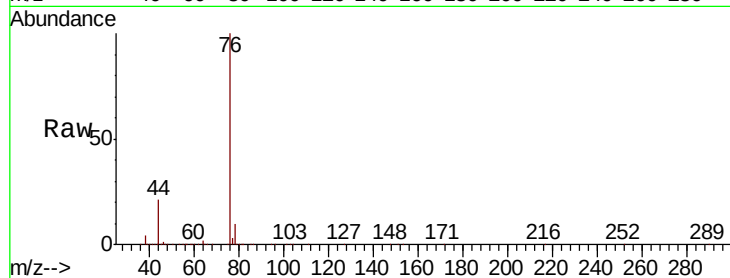
78 9.6 7.6 11.4

Manual Integrations

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MMDadoda

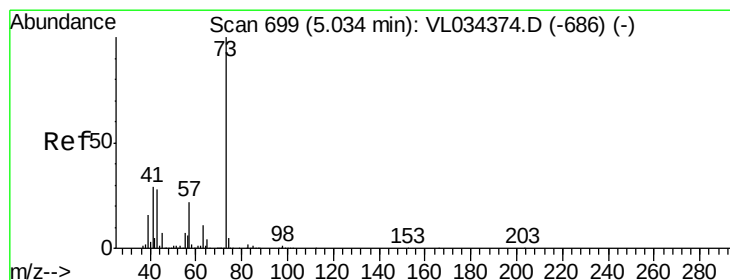
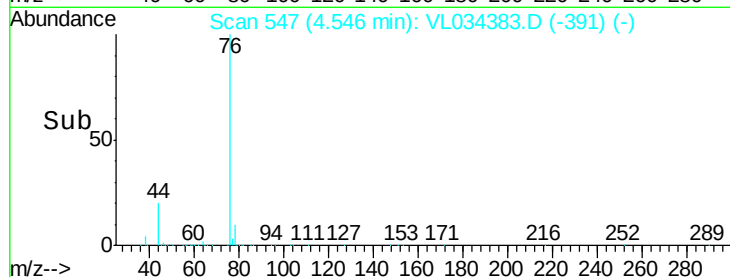
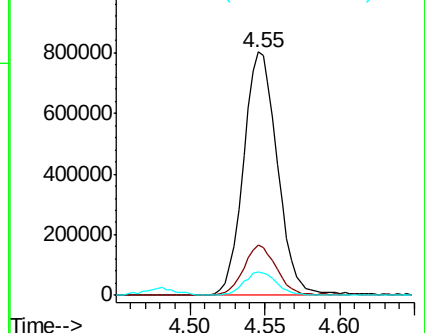
11/20/2019 3:53:52 PM



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: 9.459 ppbv

RT: 5.04 min Scan# 700

Delta R.T. 0.00 min

Lab File: VL034383.D

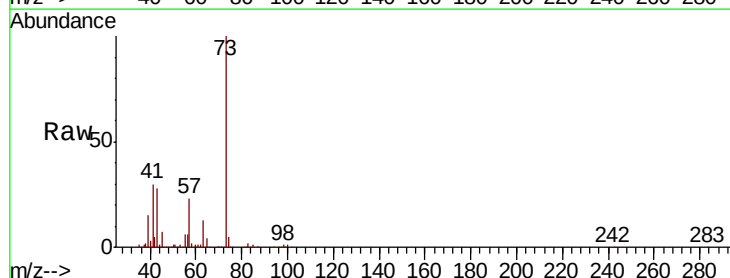
Acq: 19 Nov 2019 17:33

Tgt Ion: 73 Resp: 1735236

Ion Ratio Lower Upper

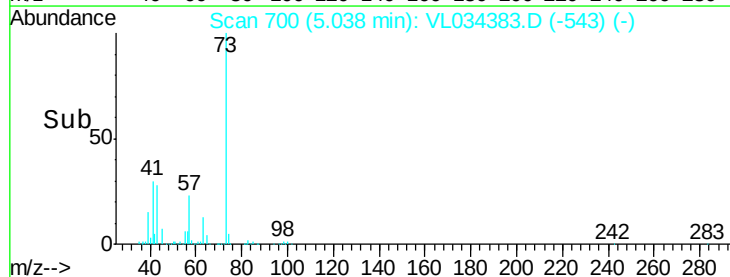
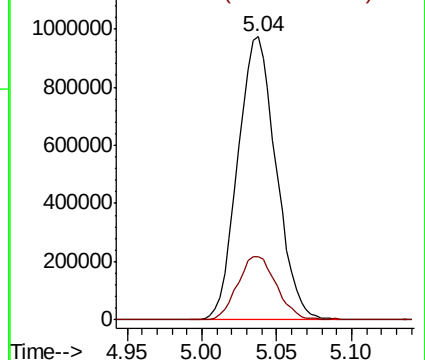
73 100

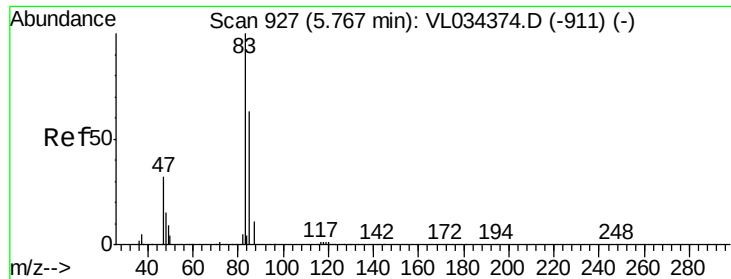
57 23.0 18.4 27.6



Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





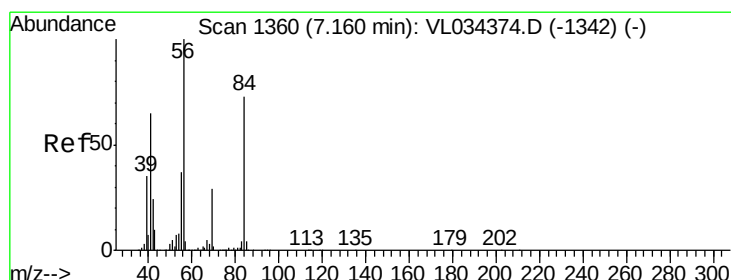
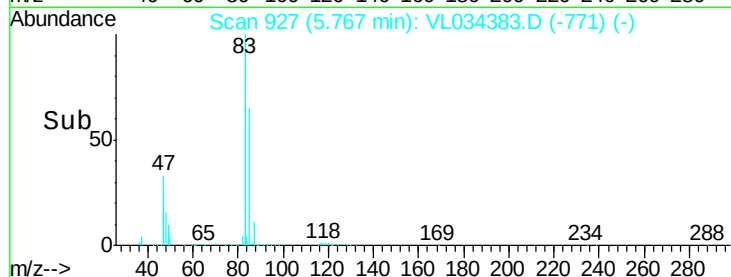
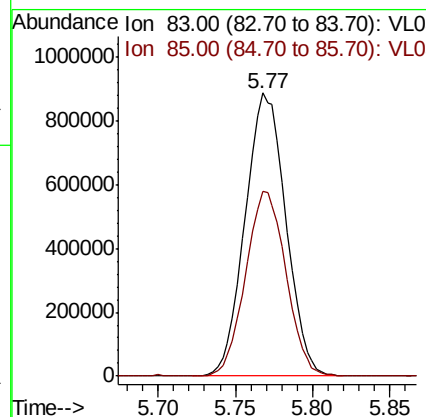
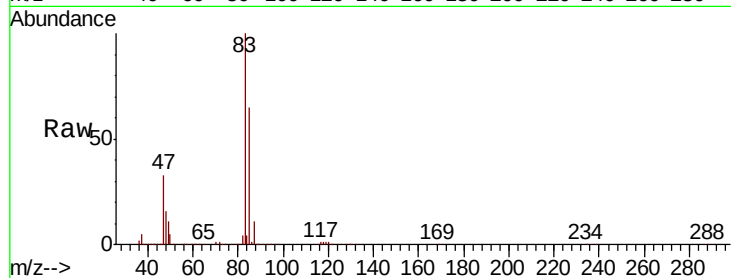
#29
Chloroform
Concen: 9.094 ppbv
RT: 5.77 min Scan# 927
Delta R.T. 0.00 min
Lab File: VL034383.D
Acq: 19 Nov 2019 17:33

Instrument :
MSVOA_L
ClientSampleId :
VL1119ABS01

Tot Ion: 83 Resp: 1629150
Ion Ratio Lower Upper
83 100
85 65.1 50.4 75.6

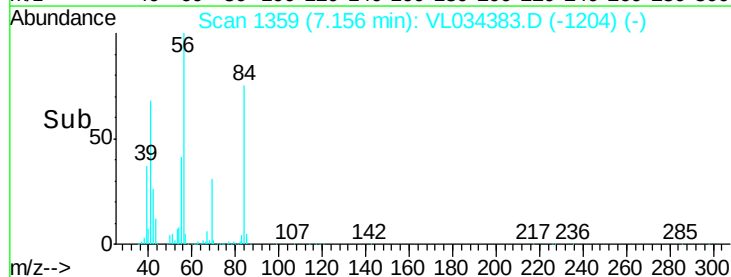
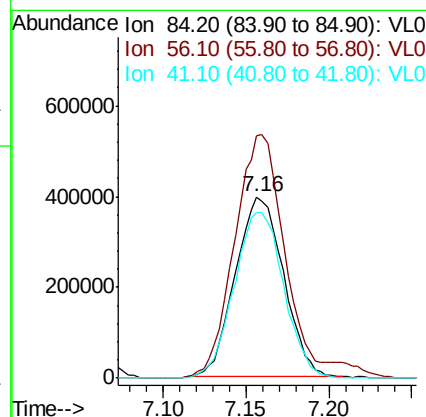
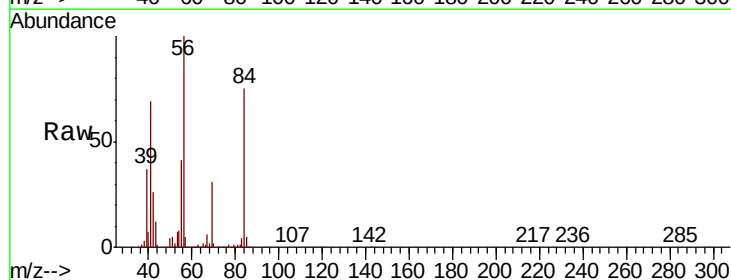
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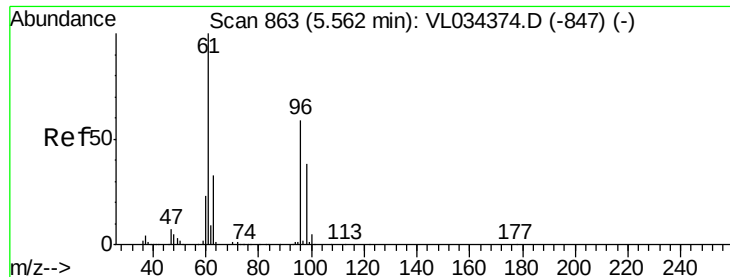
MMDadoda
11/20/2019 3:53:52 PM



#30
Cyclohexane
Concen: 9.595 ppbv
RT: 7.16 min Scan# 1359
Delta R.T. -0.00 min
Lab File: VL034383.D
Acq: 19 Nov 2019 17:33

Tgt Ion: 84 Resp: 802482
Ion Ratio Lower Upper
84 100
56 145.1 112.6 169.0
41 95.2 73.4 110.2





#31

cis-1,2-Dichloroethene

Concen: 9.685 ppbv

RT: 5.56 min Scan# 863

Delta R.T. 0.00 min

Lab File: VL034383.D

Acq: 19 Nov 2019 17:33

Instrument :

MSVOA_L

ClientSampleId :

VL1119ABS01

Tot Ion: 61 Resp: 1107192

Ion Ratio Lower Upper

61 100

96 55.3 47.4 71.2

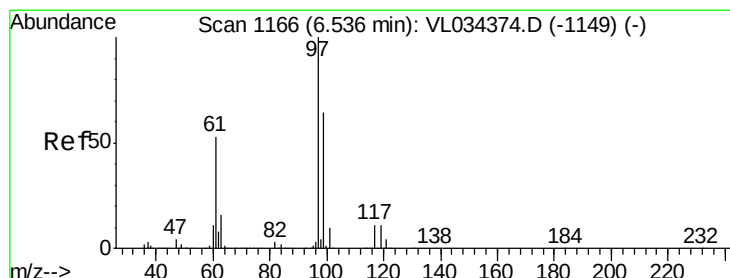
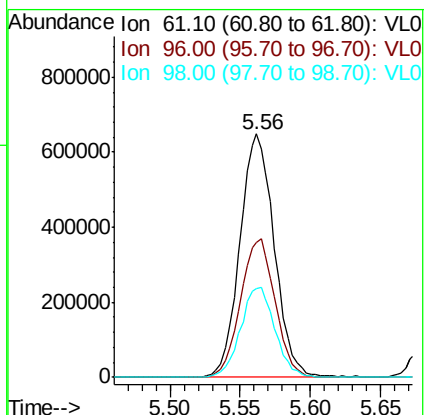
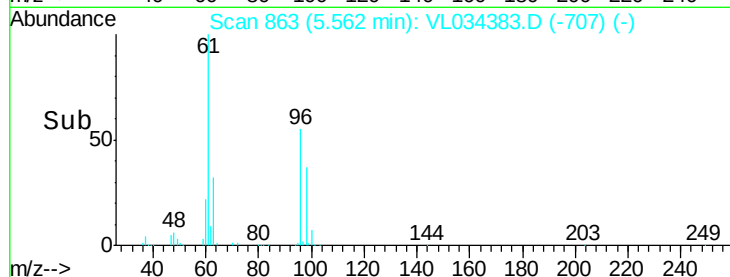
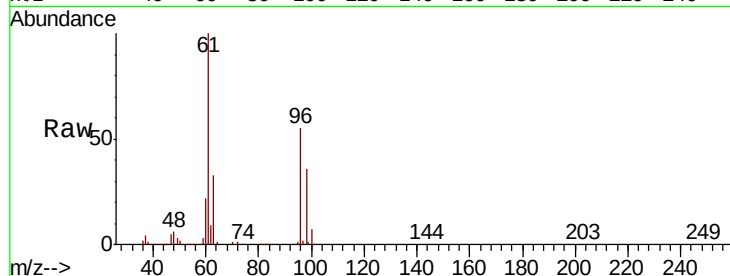
98 36.5 30.6 45.8

Manual Integrations

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#32

1,1,1-Trichloroethane

Concen: 9.750 ppbv

RT: 6.54 min Scan# 1166

Delta R.T. 0.00 min

Lab File: VL034383.D

Acq: 19 Nov 2019 17:33

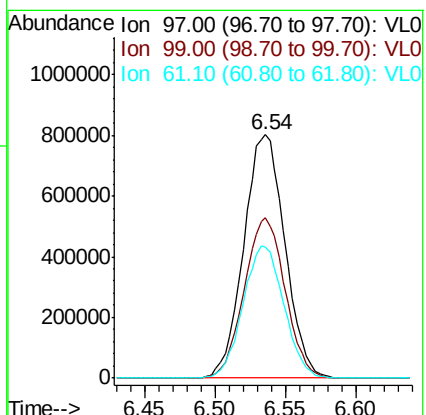
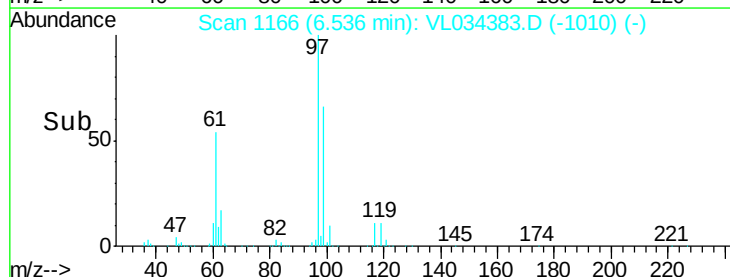
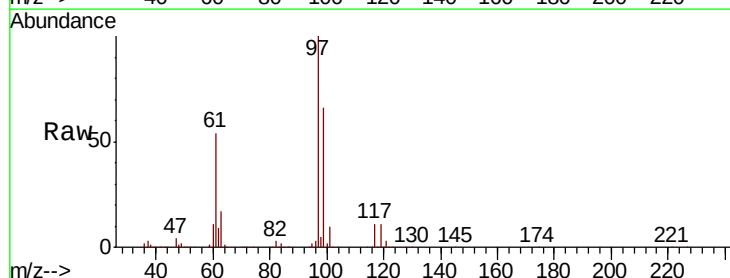
Tgt Ion: 97 Resp: 1637679

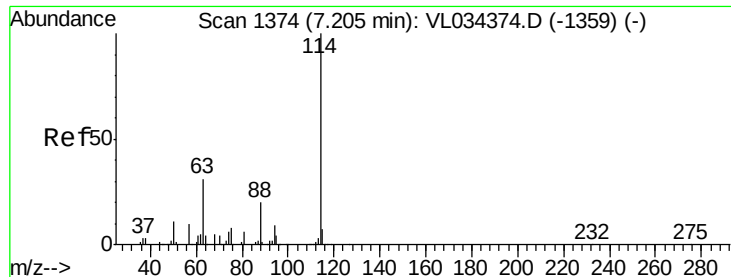
Ion Ratio Lower Upper

97 100

99 65.6 52.3 78.5

61 54.2 43.7 65.5





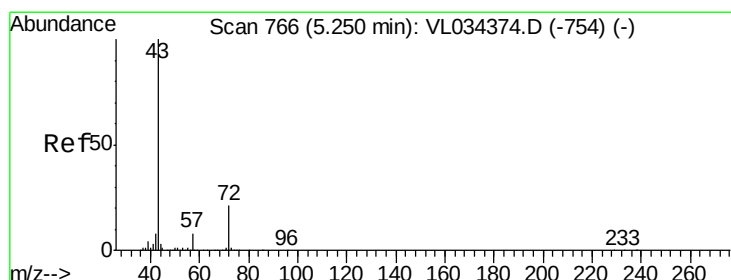
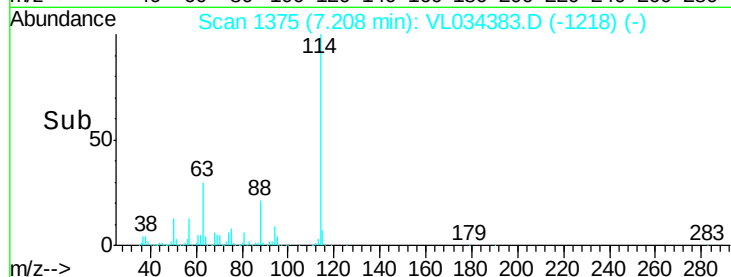
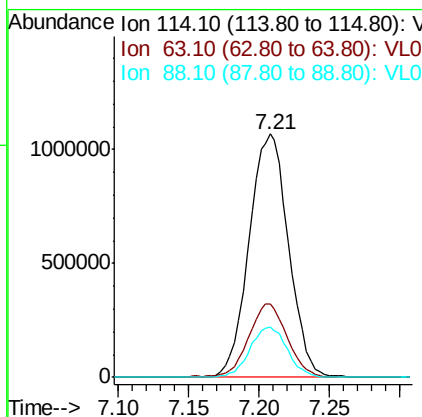
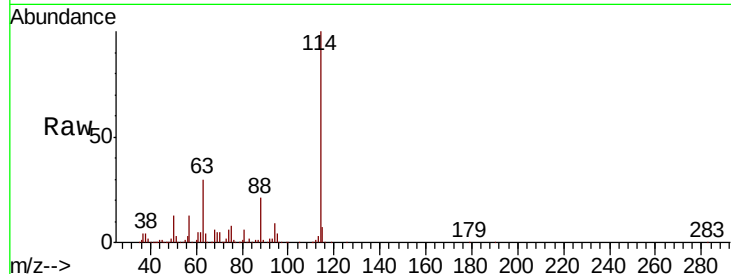
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.21 min Scan# 1375
 Delta R.T. 0.00 min
 Lab File: VL034383.D
 Acq: 19 Nov 2019 17:33

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1119ABS01

Tot Ion	Ratio	Lower	Upper
114	100		
63	29.9	24.2	36.4
88	19.7	15.9	23.9

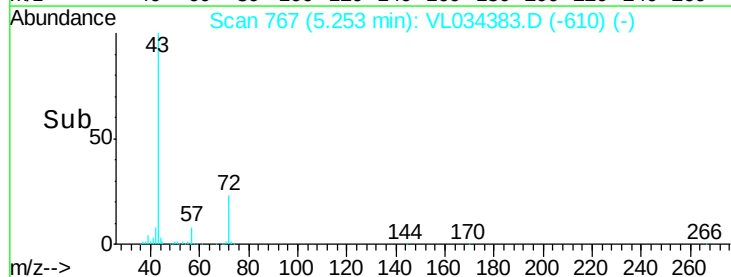
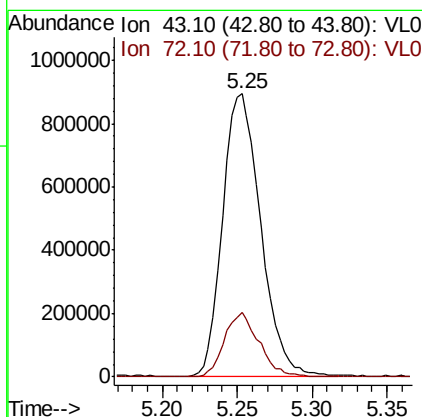
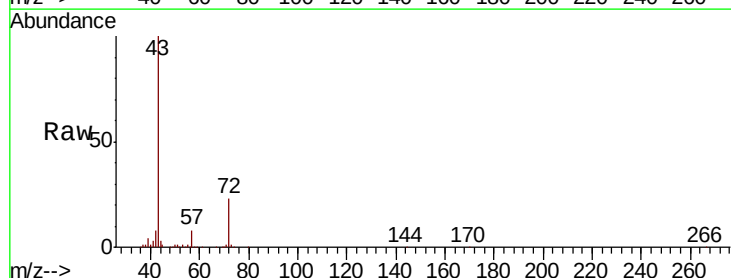
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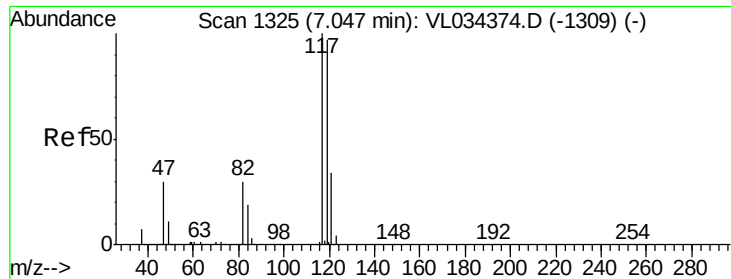
MMDadoda
 11/20/2019 3:53:52 PM



#34
 2-Butanone
 Concen: 9.198 ppbv
 RT: 5.25 min Scan# 767
 Delta R.T. 0.00 min
 Lab File: VL034383.D
 Acq: 19 Nov 2019 17:33

Tgt Ion	Ratio	Lower	Upper
43	100		
72	20.9	17.0	25.6





#35

Carbon Tetrachloride

Concen: 9.406 ppbv

RT: 7.04 min Scan# 1324

Delta R.T. -0.00 min

Lab File: VL034383.D

Acq: 19 Nov 2019 17:33

Instrument :

MSVOA_L

ClientSampleId :

VL1119ABS01

Tot Ion:117 Resp: 1685945

Ion Ratio Lower Upper

117 100

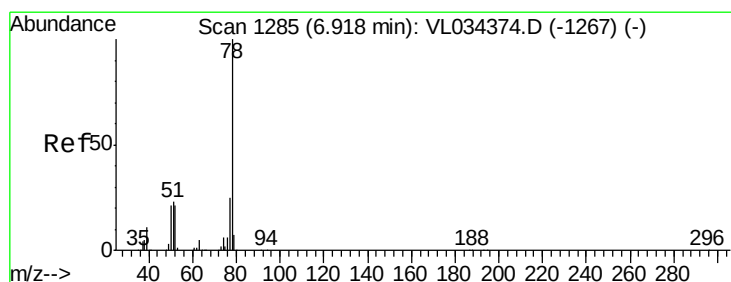
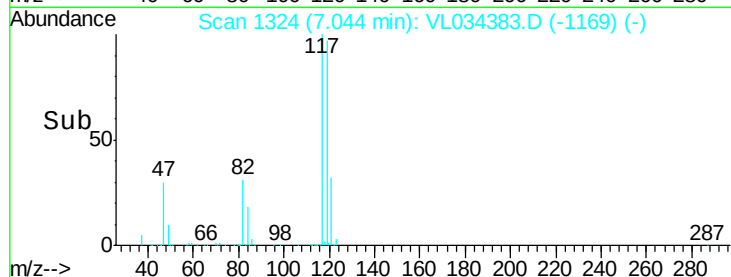
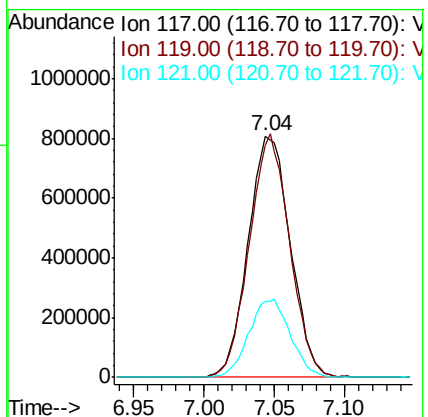
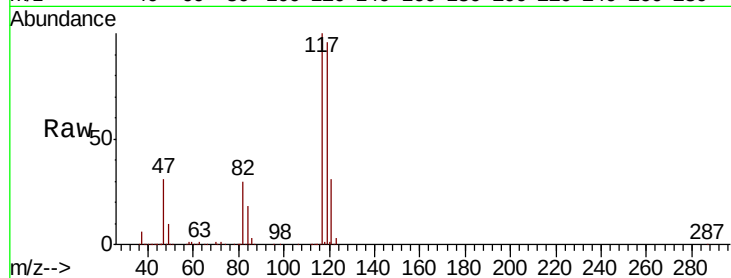
119 96.4 77.3 115.9

121 31.3 27.4 41.2

Manual Integrations
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#36

Benzene

Concen: 9.366 ppbv

RT: 6.92 min Scan# 1285

Delta R.T. 0.00 min

Lab File: VL034383.D

Acq: 19 Nov 2019 17:33

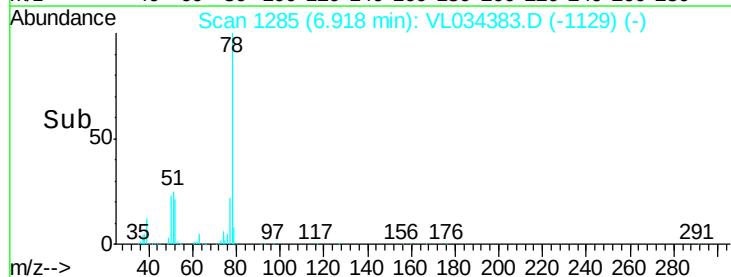
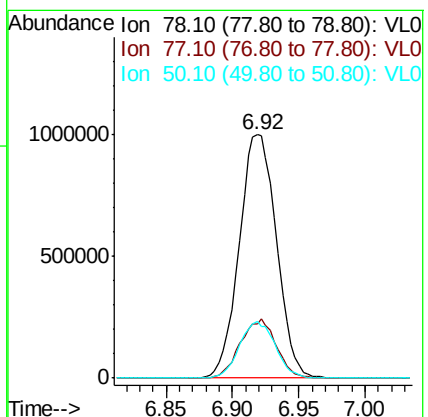
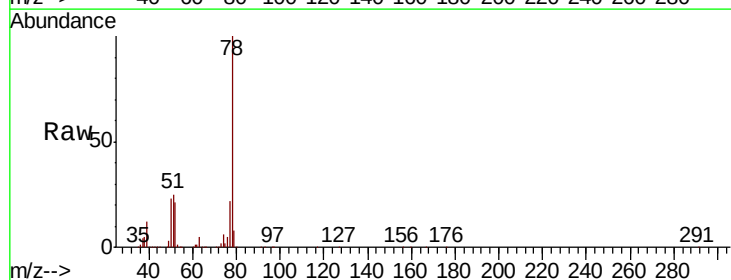
Tgt Ion: 78 Resp: 1951723

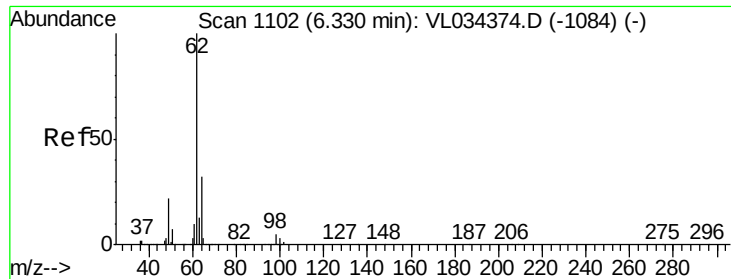
Ion Ratio Lower Upper

78 100

77 22.4 20.2 30.4

50 23.4 17.1 25.7





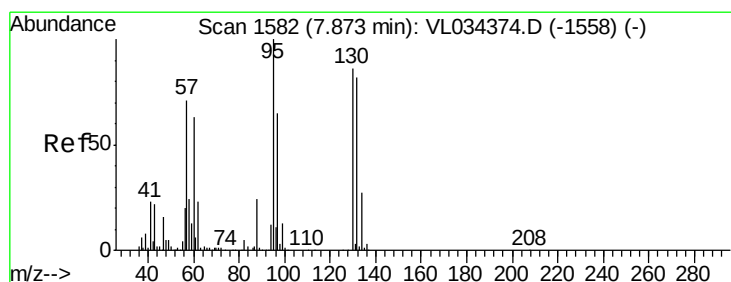
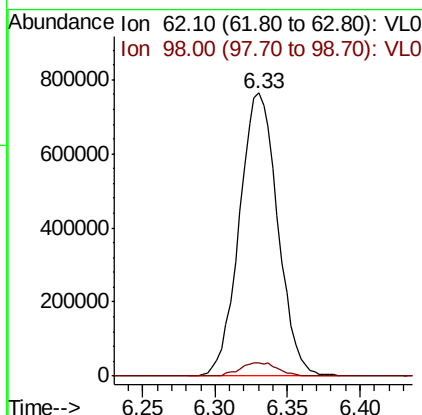
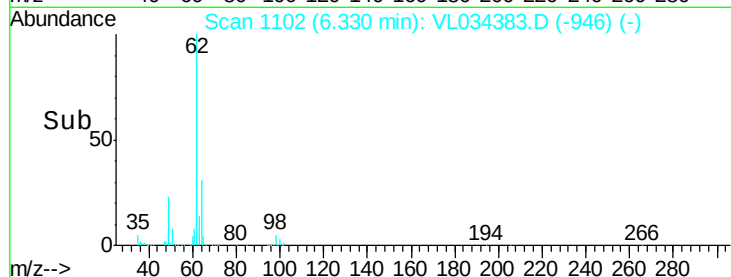
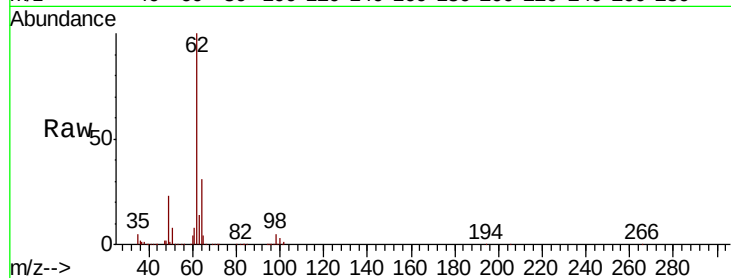
#37
 1,2-Dichloroethane
 Concen: 9.066 ppbv
 RT: 6.33 min Scan# 1102
 Delta R.T. 0.00 min
 Lab File: VL034383.D
 Acq: 19 Nov 2019 17:33

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1119ABS01

Tot Ion	Ratio	Lower	Upper
62	100		
98	4.9	3.8	5.8

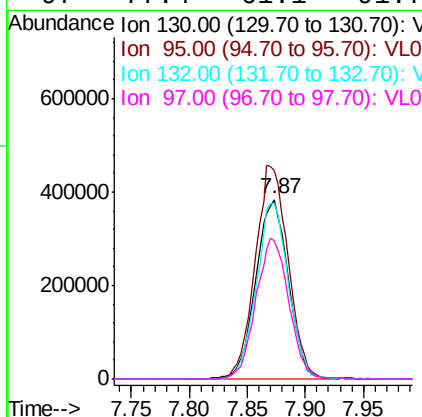
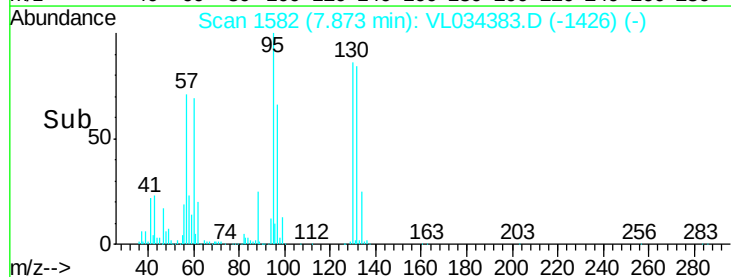
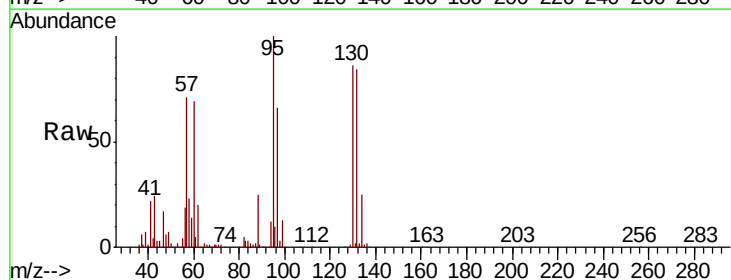
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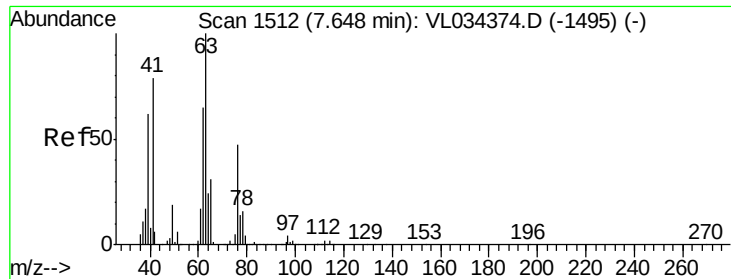
MMDadoda
 11/20/2019 3:53:52 PM



#38
 Trichloroethene
 Concen: 8.805 ppbv
 RT: 7.87 min Scan# 1582
 Delta R.T. 0.00 min
 Lab File: VL034383.D
 Acq: 19 Nov 2019 17:33

Tgt Ion	Ratio	Lower	Upper
130	100		
95	116.6	93.4	140.0
132	97.8	76.4	114.6
97	77.4	61.1	91.7





#39

1,2-Dichloropropane

Concen: 9.209 ppbv

RT: 7.65 min Scan# 1512

Delta R.T. 0.00 min

Lab File: VL034383.D

Acq: 19 Nov 2019 17:33

Instrument :

MSVOA_L

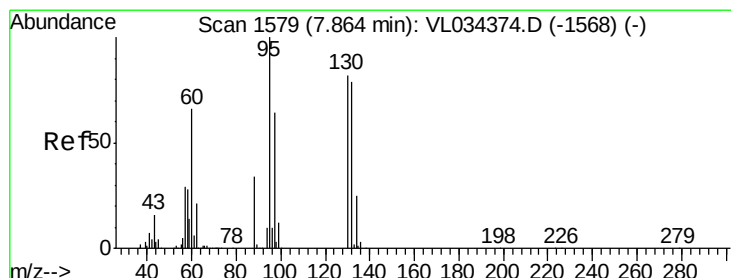
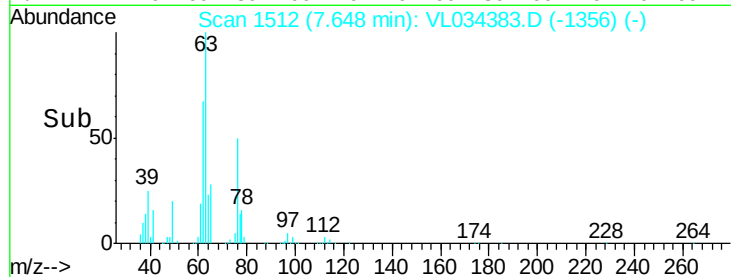
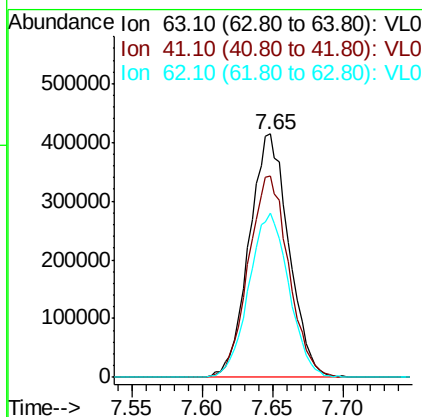
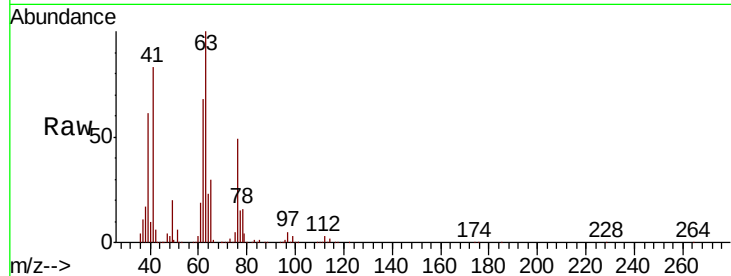
ClientSampleId :

VL1119ABS01

Tot Ion:	63	Resp:	813581
Ion	Ratio	Lower	Upper
63	100		
41	82.6	63.1	94.7
62	67.6	52.3	78.5

Manual Integrations
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#40

1,4-Dioxane

Concen: 9.207 ppbv

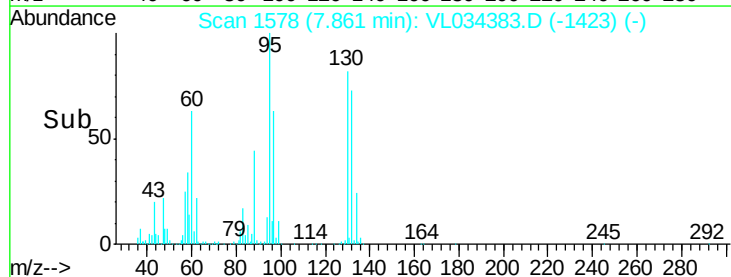
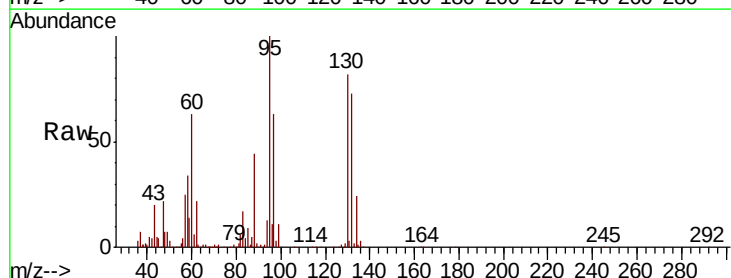
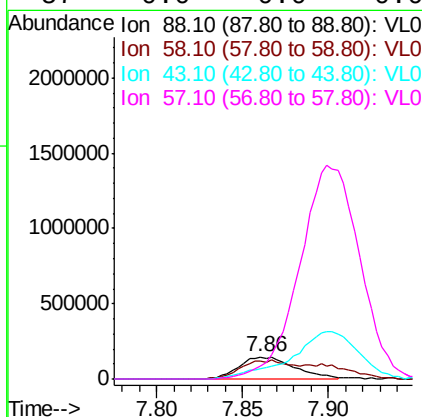
RT: 7.86 min Scan# 1578

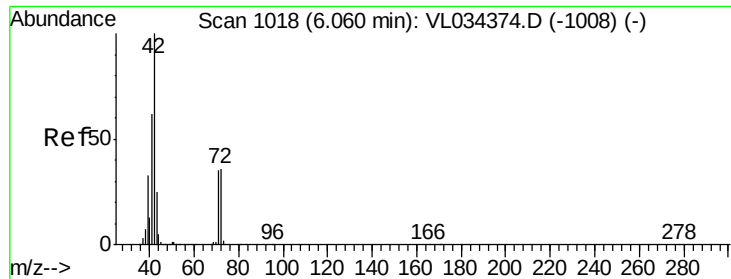
Delta R.T. -0.00 min

Lab File: VL034383.D

Acq: 19 Nov 2019 17:33

Tgt Ion:	88	Resp:	322913
Ion	Ratio	Lower	Upper
88	100		
58	136.3	109.5	164.3
43	0.0	0.0	0.0
57	0.0	0.0	0.0





#41

Tetrahydrofuran

Concen: 9.439 ppbv

RT: 6.06 min Scan# 1019

Delta R.T. 0.00 min

Lab File: VL034383.D

Acq: 19 Nov 2019 17:33

Instrument :

MSVOA_L

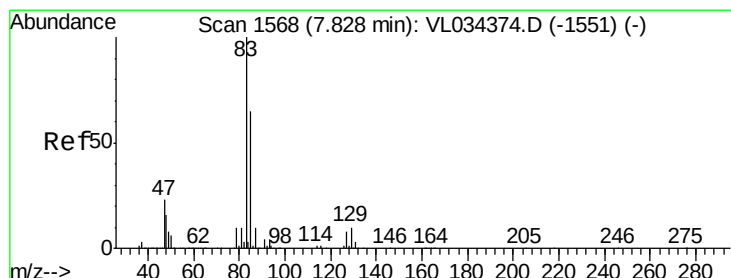
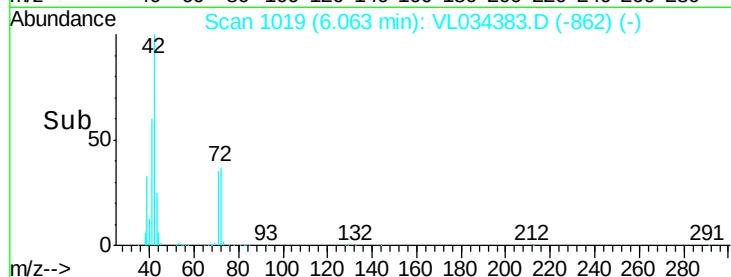
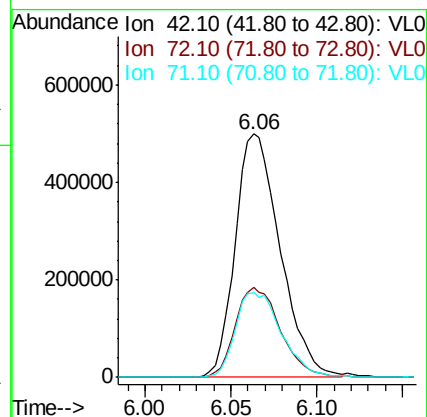
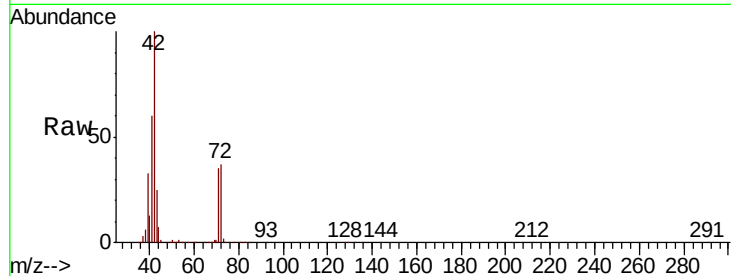
ClientSampleId :

VL1119ABS01

Tot Ion:	42	Resp:	908507
Ion Ratio		Lower	Upper
42	100		
72	37.3	30.2	45.4
71	36.2	29.4	44.2

Manual Integrations
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#42

Bromodichloromethane

Concen: 9.348 ppbv

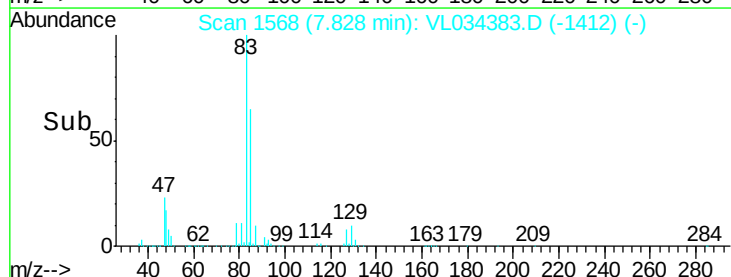
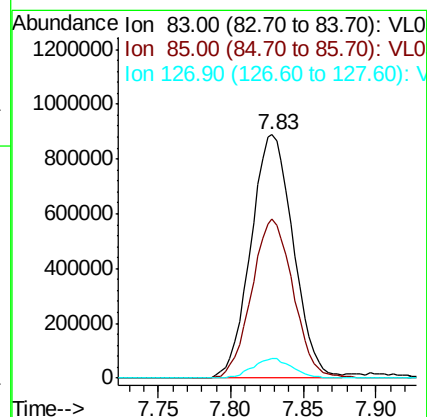
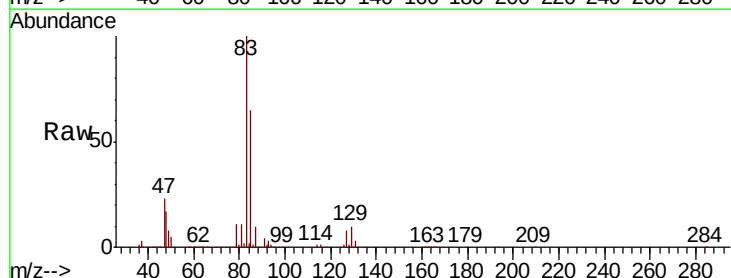
RT: 7.83 min Scan# 1568

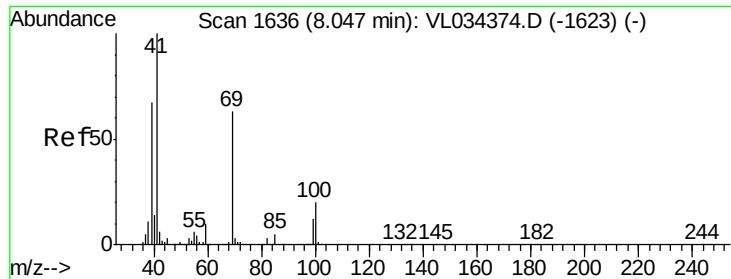
Delta R.T. 0.00 min

Lab File: VL034383.D

Acq: 19 Nov 2019 17:33

Tgt Ion:	83	Resp:	1810046
Ion Ratio		Lower	Upper
83	100		
85	65.3	52.3	78.5
127	7.9	6.1	9.1





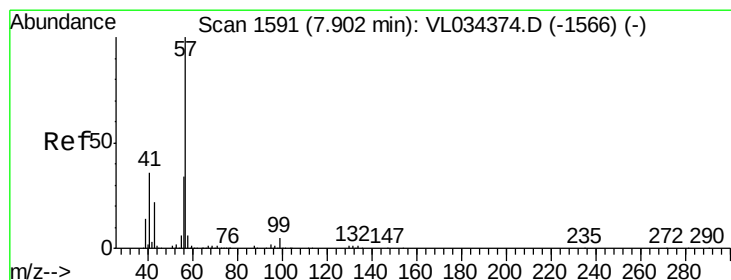
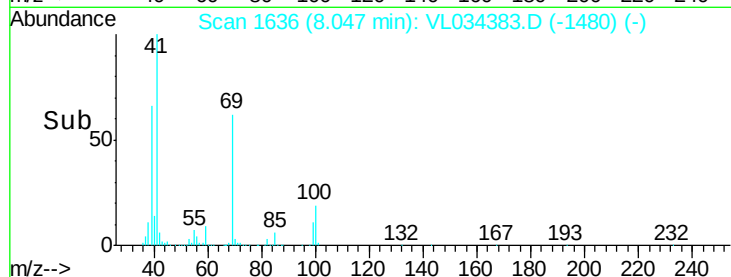
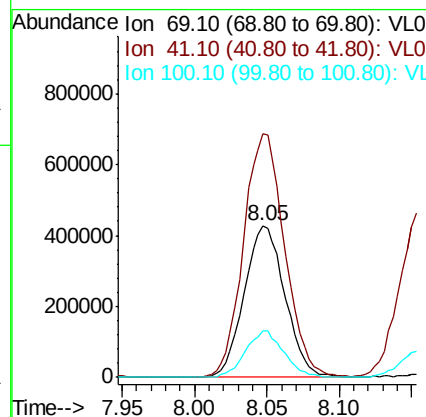
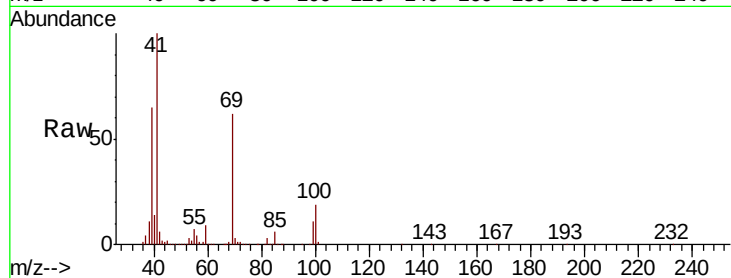
#43
Methyl Methacrylate
Concen: 9.657 ppbv
RT: 8.05 min Scan# 1636
Delta R.T. 0.00 min
Lab File: VL034383.D
Acq: 19 Nov 2019 17:33

Instrument :
MSVOA_L
ClientSampleId :
VL1119ABS01

Tot Ion	Ion	Ratio	Lower	Upper
69	100			
41	161.7	127.4	191.2	
100	29.0	24.2	36.4	

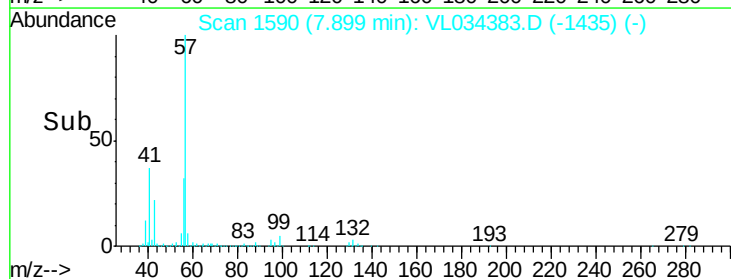
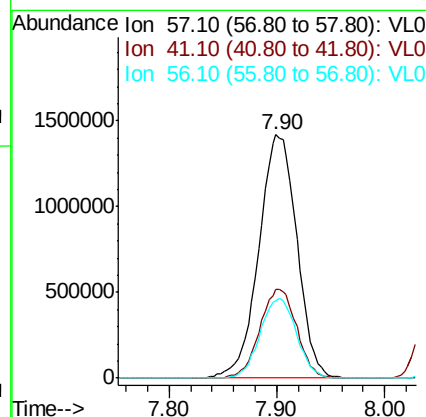
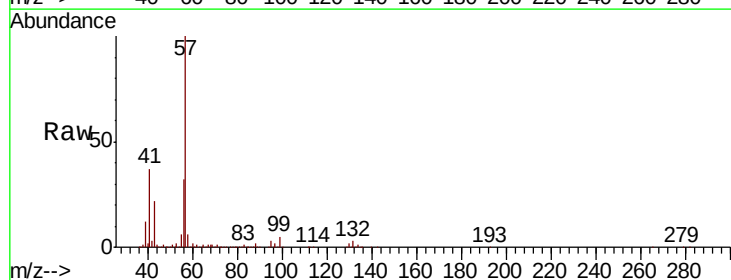
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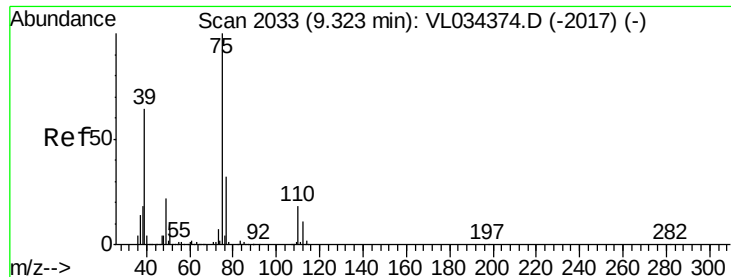
MMDadoda
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#44
2,2,4-Trimethylpentane
Concen: 9.106 ppbv
RT: 7.90 min Scan# 1590
Delta R.T. -0.00 min
Lab File: VL034383.D
Acq: 19 Nov 2019 17:33

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	35.4	28.6	42.8	
56	31.3	25.3	37.9	





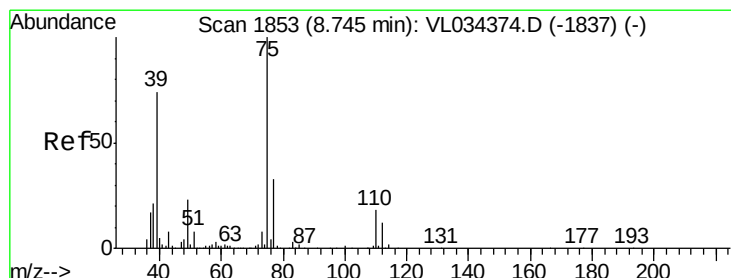
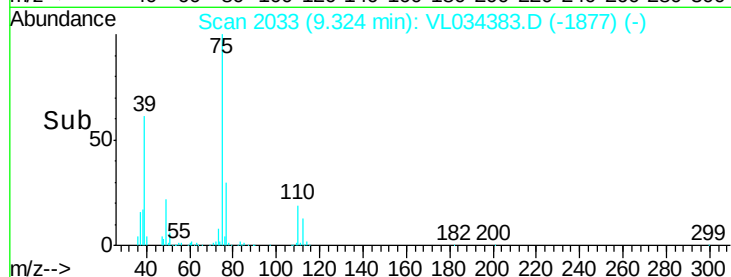
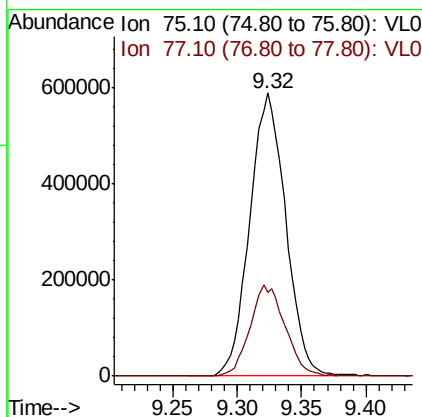
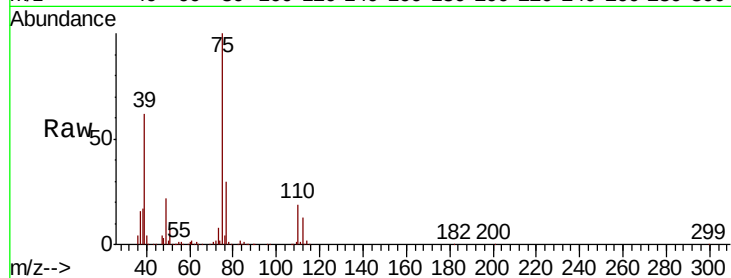
#45
t-1,3-Dichloropropene
Concen: 10.327 ppbv
RT: 9.32 min Scan# 2033
Delta R.T. 0.00 min
Lab File: VL034383.D
Acq: 19 Nov 2019 17:33

Instrument :
MSVOA_L
ClientSampleId :
VL1119ABS01

Tot Ion: 75 Resp: 1144783
Ion Ratio Lower Upper
75 100
77 29.7 25.4 38.2

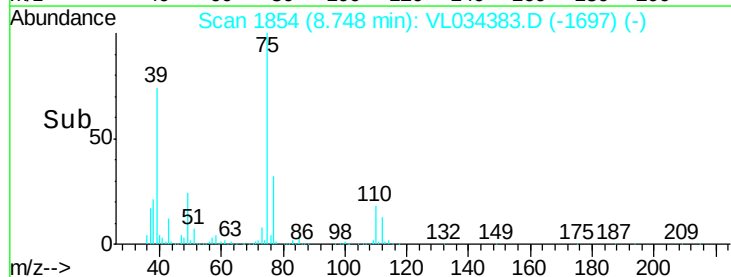
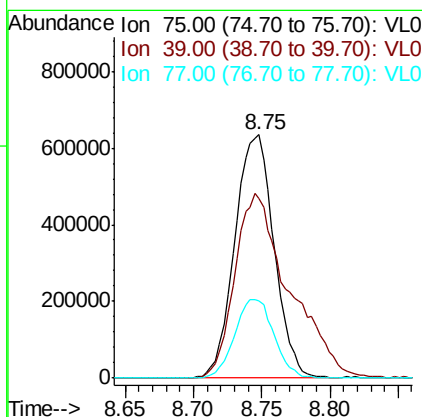
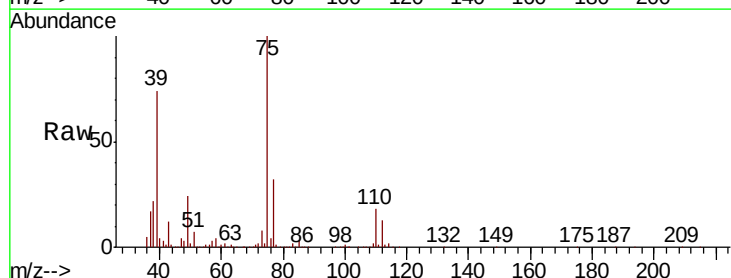
Manual Integrations
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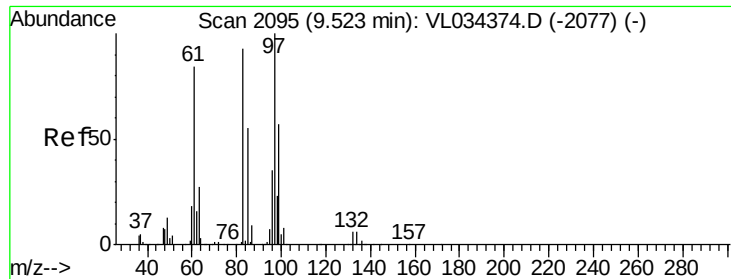
MMDadoda
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#46
cis-1,3-Dichloropropene
Concen: 10.149 ppbv
RT: 8.75 min Scan# 1854
Delta R.T. 0.00 min
Lab File: VL034383.D
Acq: 19 Nov 2019 17:33

Tgt Ion: 75 Resp: 1263668
Ion Ratio Lower Upper
75 100
39 73.7 59.0 88.6
77 31.8 26.4 39.6





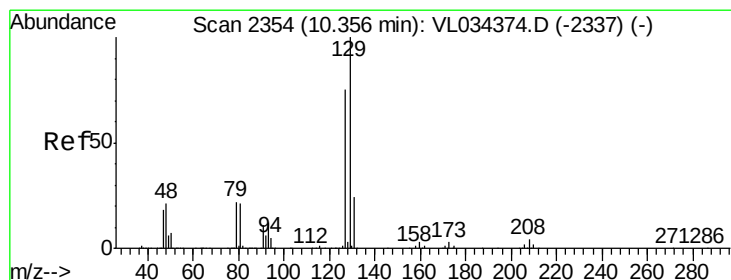
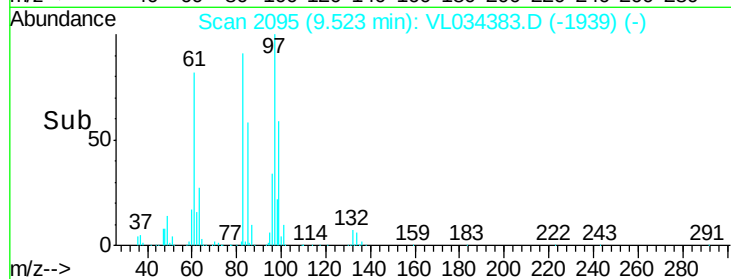
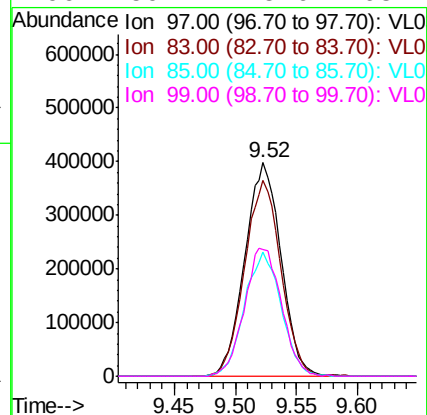
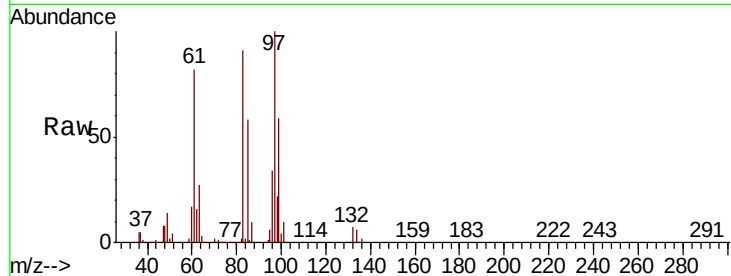
#47
 1,1,2-Trichloroethane
 Concen: 9.114 ppbv
 RT: 9.52 min Scan# 2095
 Delta R.T. 0.00 min
 Lab File: VL034383.D
 Acq: 19 Nov 2019 17:33

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1119ABS01

Tot Ion	Ratio	Lower	Upper
97	100		
83	91.4	74.6	112.0
85	58.0	43.8	65.8
99	59.4	45.6	68.4

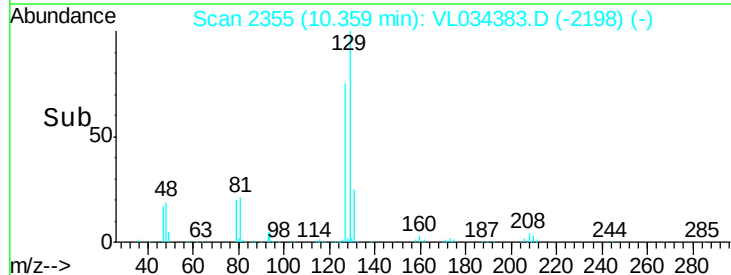
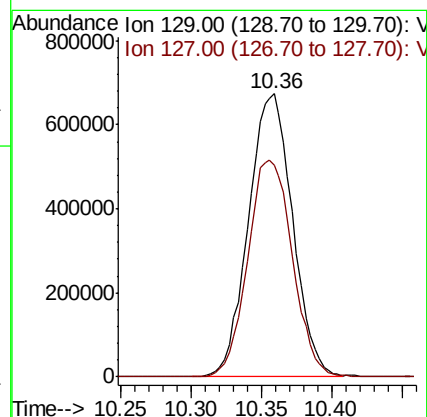
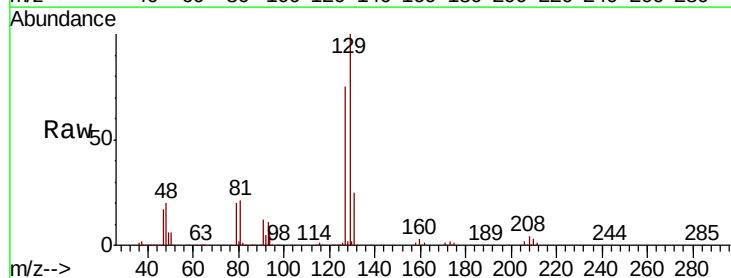
Manual Integrations
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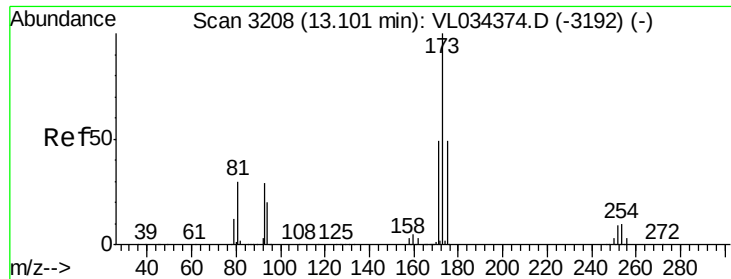
MMDadoda
 11/20/2019 3:53:52 PM



#48
 Dibromochloromethane
 Concen: 9.606 ppbv
 RT: 10.36 min Scan# 2355
 Delta R.T. 0.00 min
 Lab File: VL034383.D
 Acq: 19 Nov 2019 17:33

Tgt Ion	Ratio	Lower	Upper
129	100		
127	77.7	39.1	117.5





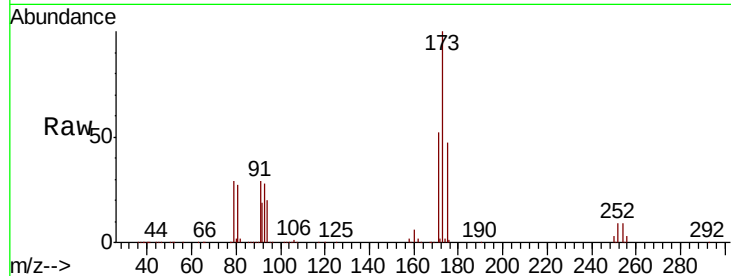
#49
Bromoform
Concen: 9.395 ppbv
RT: 13.10 min Scan# 3209
Delta R.T. 0.00 min
Lab File: VL034383.D
Acq: 19 Nov 2019 17:33

Instrument :
MSVOA_L
ClientSampleId :
VL1119ABS01

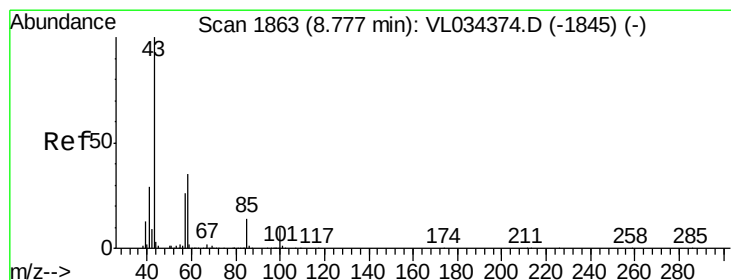
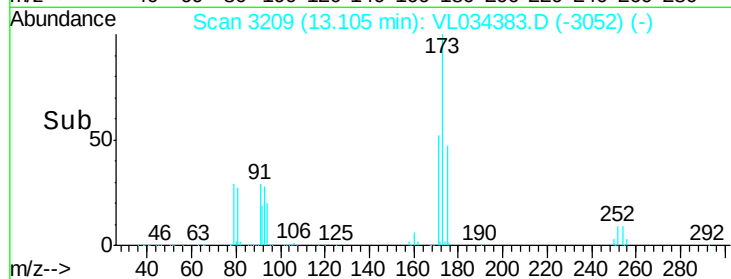
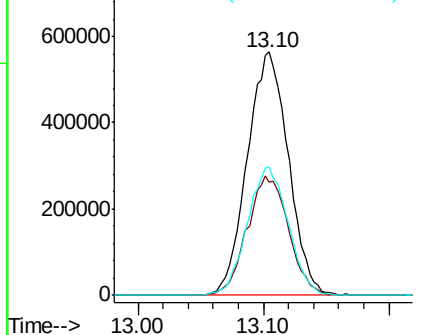
Tot Ion	Ratio	Lower	Upper
173	100		
175	49.4	39.3	58.9
171	52.4	42.4	63.6

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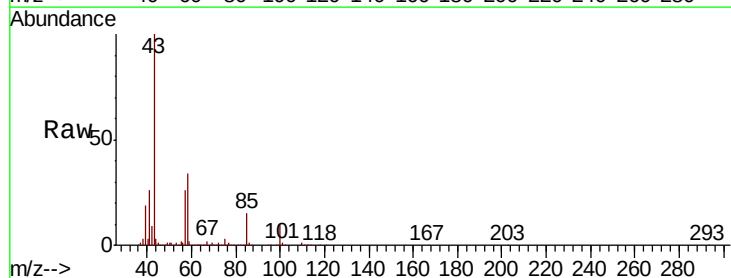


Abundance Ion 172.90 (172.60 to 173.60): V
Ion 174.90 (174.60 to 175.60): V
Ion 170.90 (170.60 to 171.60): V

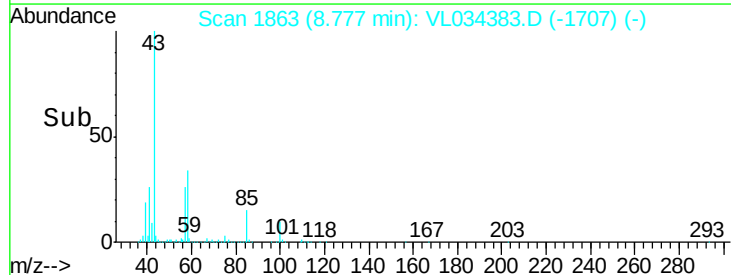
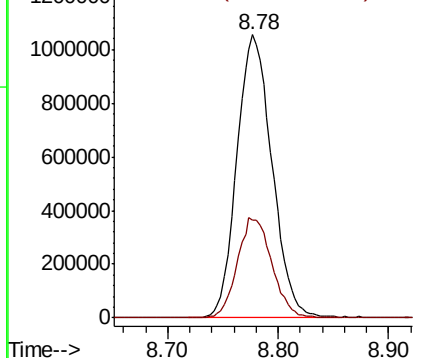


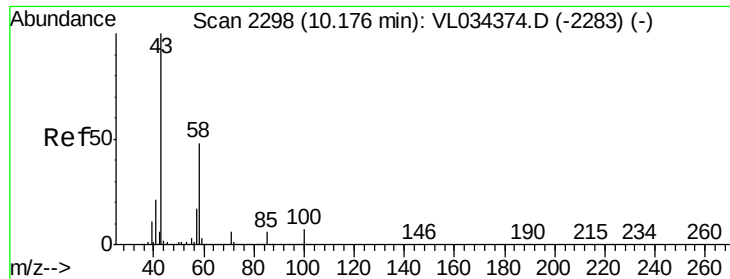
#50
4-Methyl-2-Pentanone
Concen: 9.374 ppbv
RT: 8.78 min Scan# 1863
Delta R.T. 0.00 min
Lab File: VL034383.D
Acq: 19 Nov 2019 17:33

Tgt Ion	Ratio	Lower	Upper
43	100		
58	34.8	27.9	41.9



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 58.10 (57.80 to 58.80): VL0





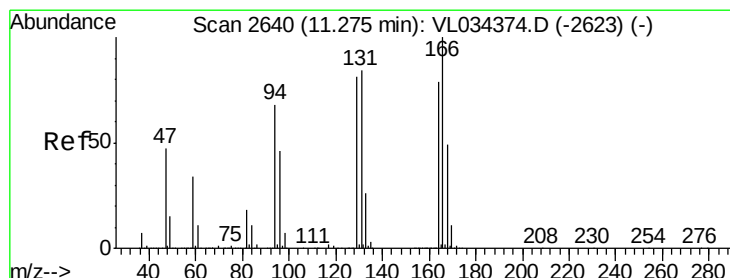
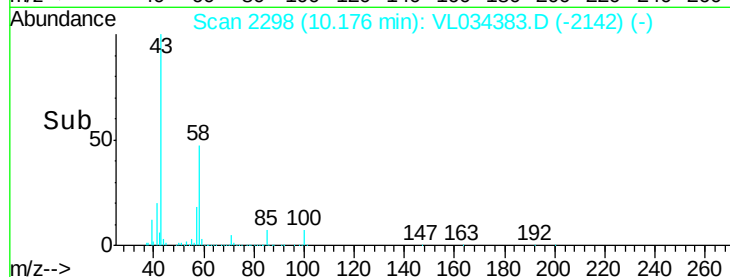
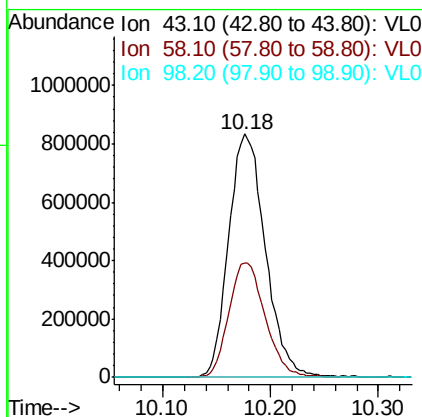
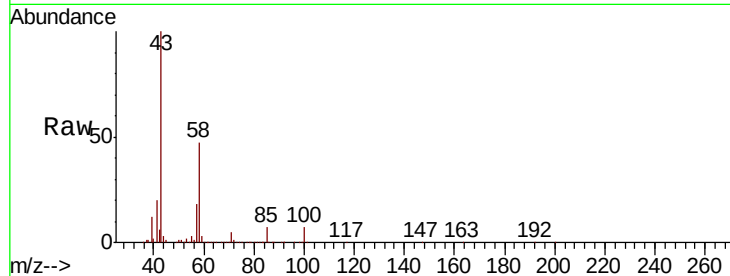
#51
2-Hexanone
Concen: 9.482 ppbv
RT: 10.18 min Scan# 2298
Delta R.T. 0.00 min
Lab File: VL034383.D
Acq: 19 Nov 2019 17:33

Instrument :
MSVOA_L
ClientSampleId :
VL1119ABS01

Tot Ion: 43 Resp: 1971984
Ion Ratio Lower Upper
43 100
58 46.9 38.2 57.4
98 0.2 0.2 0.2

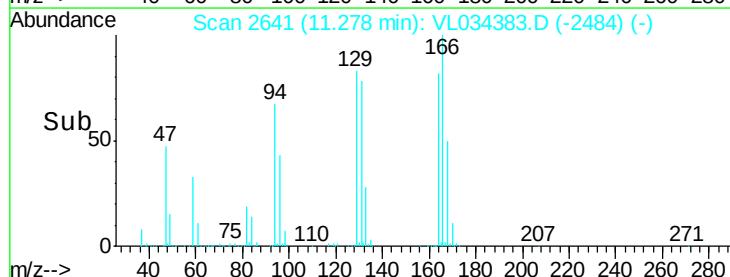
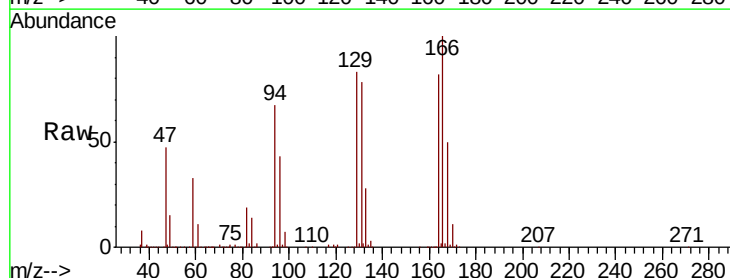
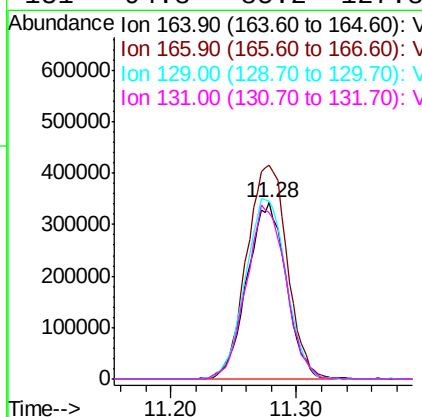
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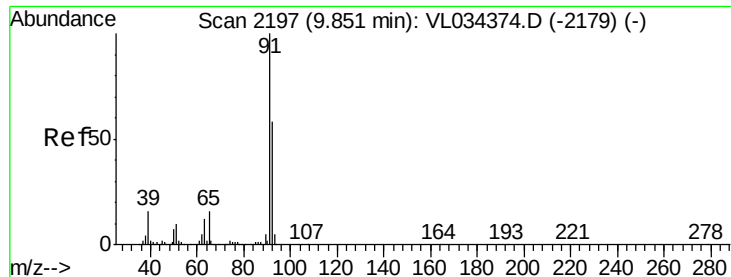
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#52
Tetrachloroethene
Concen: 8.211 ppbv
RT: 11.28 min Scan# 2641
Delta R.T. 0.00 min
Lab File: VL034383.D
Acq: 19 Nov 2019 17:33

Tgt Ion: 164 Resp: 740401
Ion Ratio Lower Upper
164 100
166 121.3 101.7 152.5
129 100.9 82.6 123.8
131 94.8 85.2 127.8





#53

Toluene

Concen: 9.421 ppbv

RT: 9.85 min Scan# 2197

Delta R.T. 0.00 min

Lab File: VL034383.D

Acq: 19 Nov 2019 17:33

Instrument :

MSVOA_L

ClientSampleId :

VL1119ABS01

Tot Ion: 91 Resp: 2230140

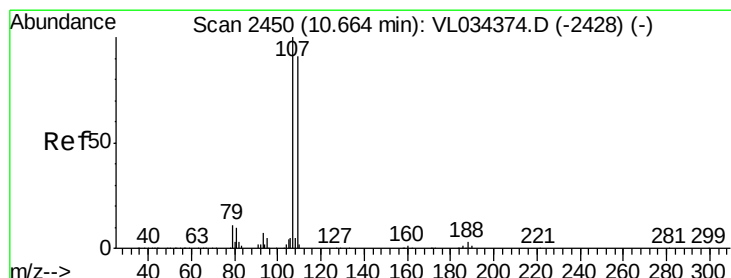
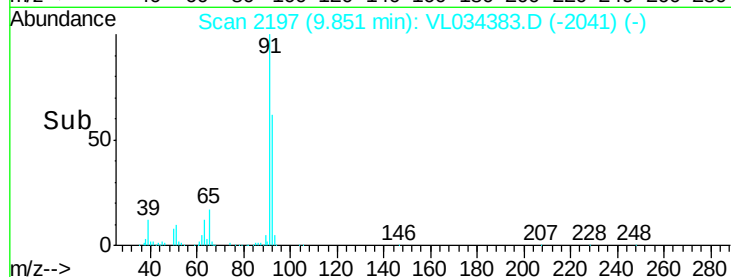
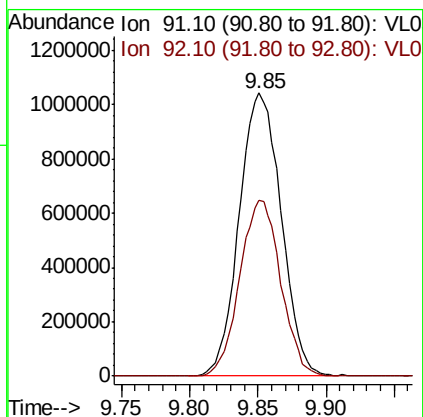
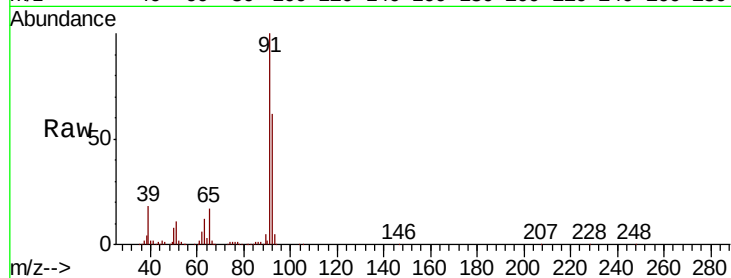
Ion Ratio Lower Upper

91 100

92 60.7 47.9 71.9

Manual Integrations
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#54

1,2-Dibromoethane

Concen: 9.010 ppbv

RT: 10.66 min Scan# 2450

Delta R.T. 0.00 min

Lab File: VL034383.D

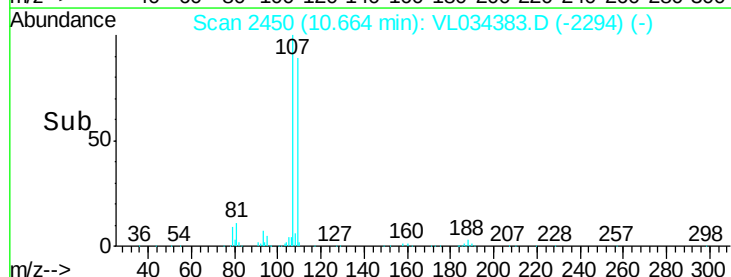
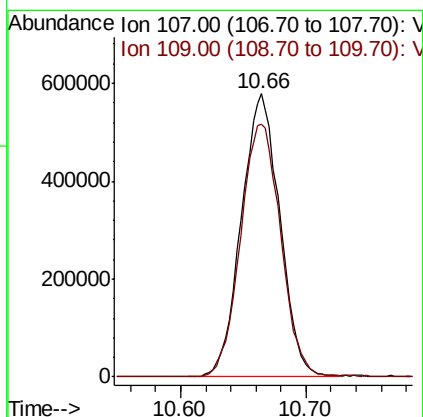
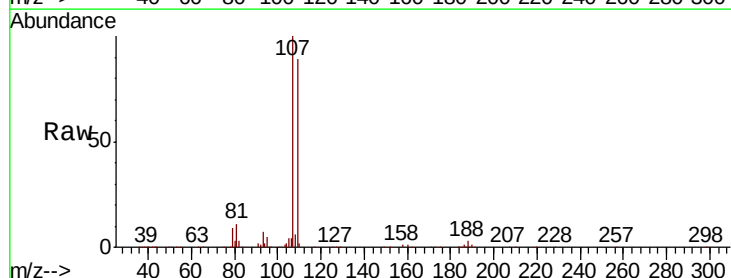
Acq: 19 Nov 2019 17:33

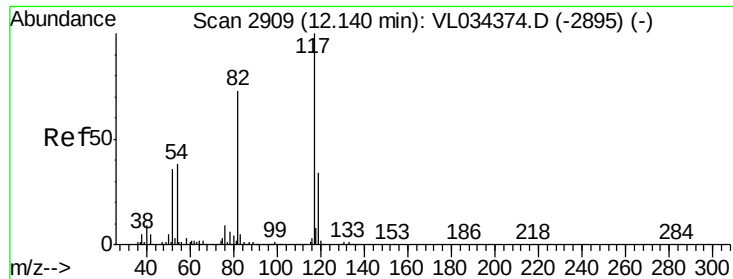
Tgt Ion: 107 Resp: 1233692

Ion Ratio Lower Upper

107 100

109 89.4 73.0 109.4





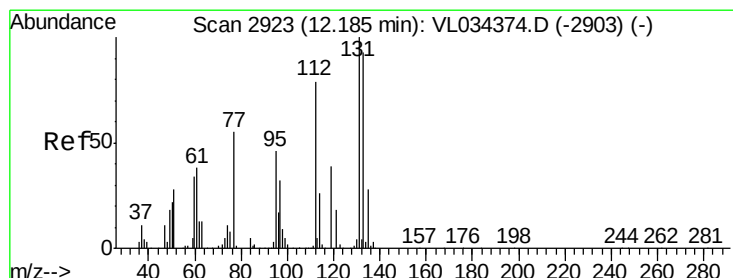
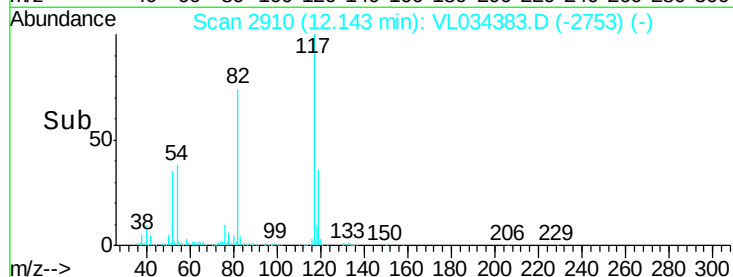
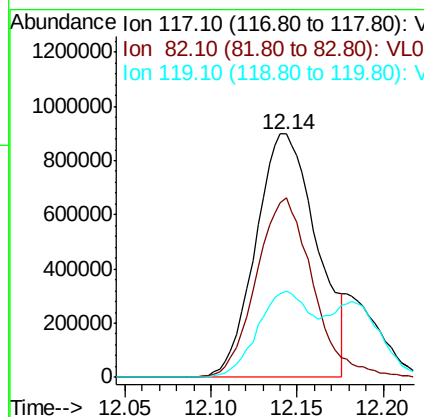
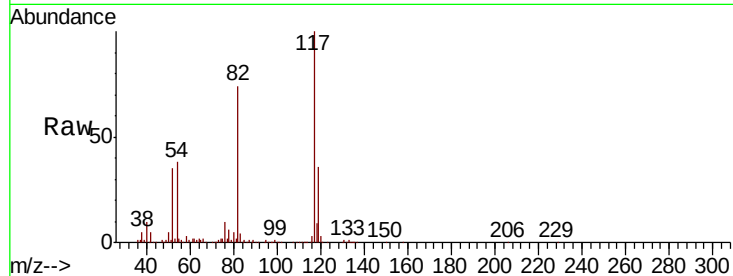
#55
Chlorobenzene-d5
Concen: 10.000 ppbv m
RT: 12.14 min Scan# 2910
Delta R.T. 0.00 min
Lab File: VL034383.D
Acq: 19 Nov 2019 17:33

Instrument :
MSVOA_L
ClientSampleId :
VL1119ABS01

Tot Ion	Ratio	Lower	Upper
117	100		
82	69.0	57.5	86.3
119	33.1	25.4	38.2

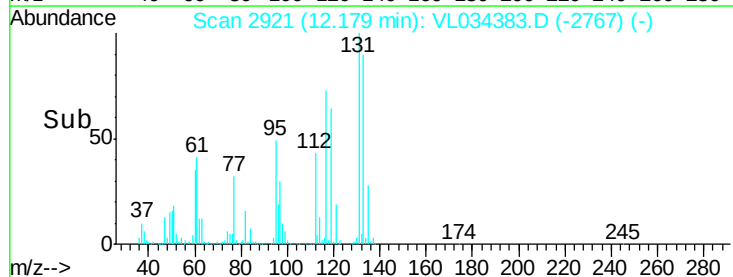
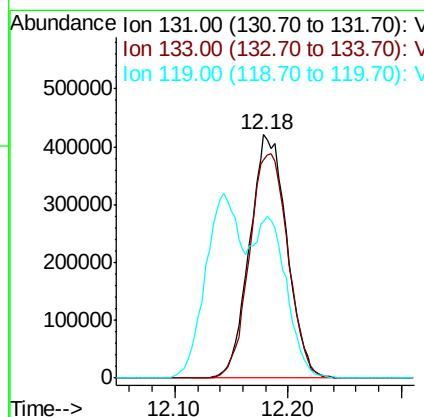
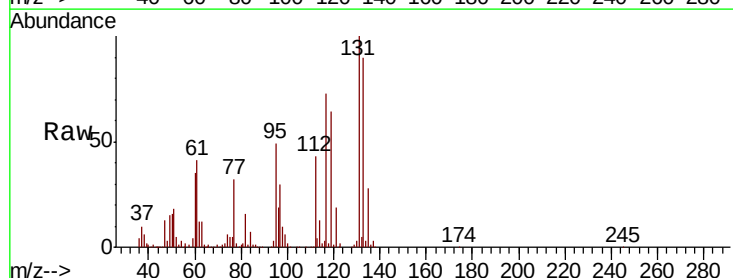
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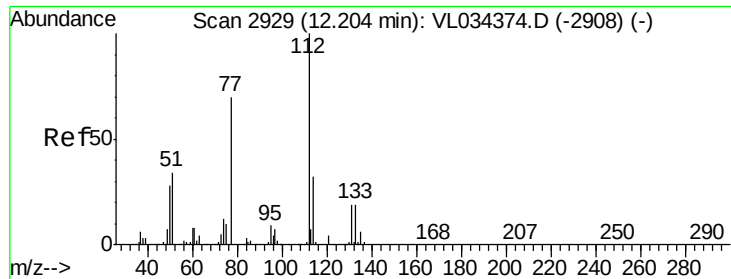
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#56
1,1,1,2-Tetrachloroethane
Concen: 8.852 ppbv m
RT: 12.18 min Scan# 2921
Delta R.T. -0.01 min
Lab File: VL034383.D
Acq: 19 Nov 2019 17:33

Tgt Ion	Ratio	Lower	Upper
131	100		
133	95.3	76.2	114.2
119	52.7	44.6	67.0





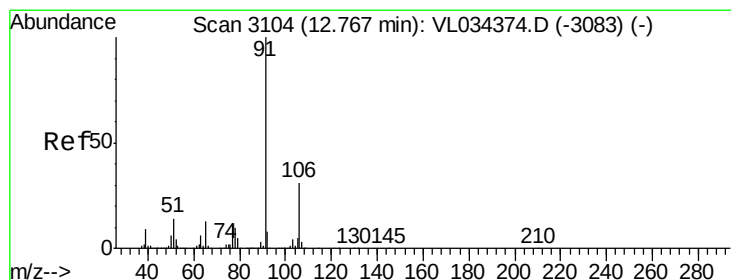
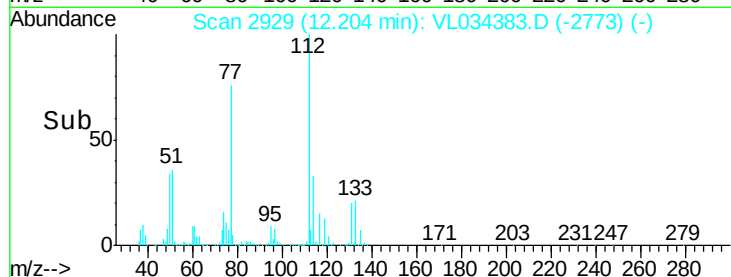
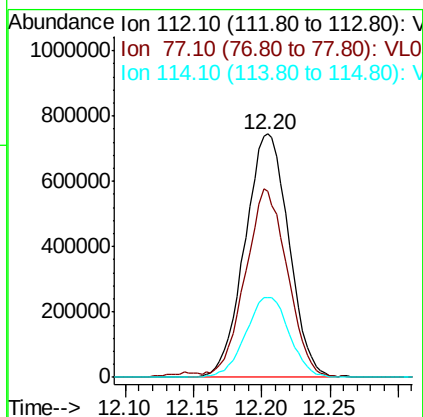
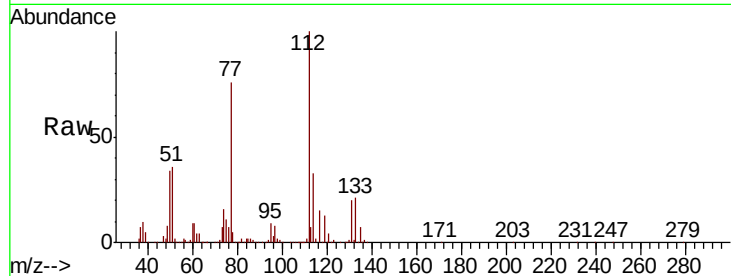
#57
Chlorobenzene
Concen: 8.281 ppbv
RT: 12.20 min Scan# 2929
Delta R.T. 0.00 min
Lab File: VL034383.D
Acq: 19 Nov 2019 17:33

Instrument :
MSVOA_L
ClientSampleId :
VL1119ABS01

Tot Ion	Ratio	Lower	Upper
112	100		
77	76.1	57.1	85.7
114	32.7	28.5	34.9

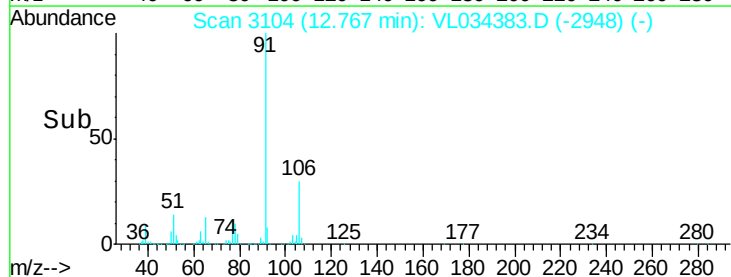
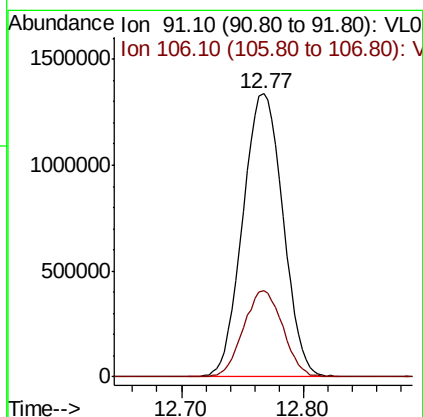
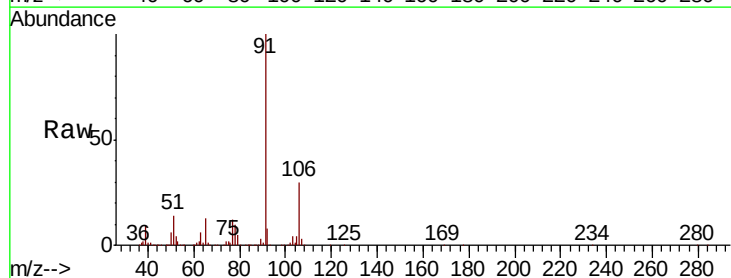
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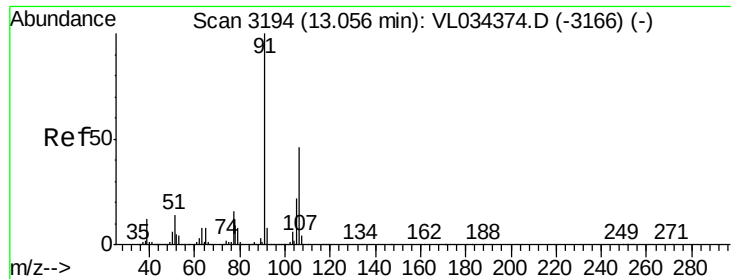
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#58
Ethyl Benzene
Concen: 8.855 ppbv
RT: 12.77 min Scan# 3104
Delta R.T. 0.00 min
Lab File: VL034383.D
Acq: 19 Nov 2019 17:33

Tgt Ion	Ratio	Lower	Upper
91	100		
106	30.4	24.8	37.2





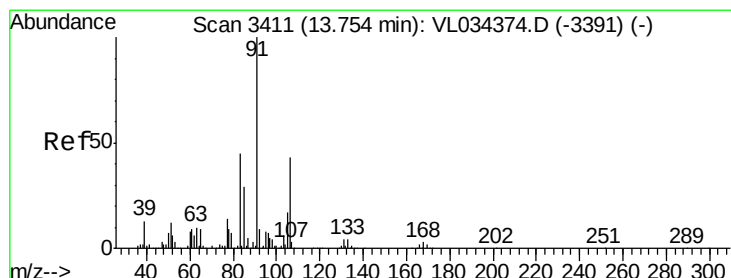
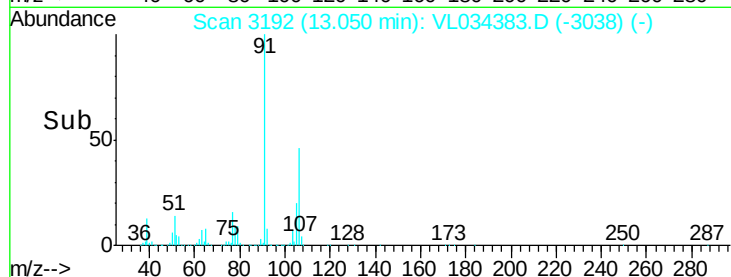
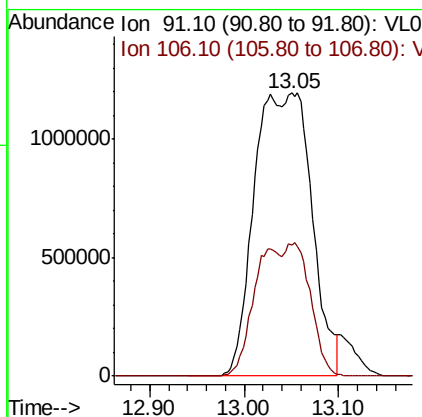
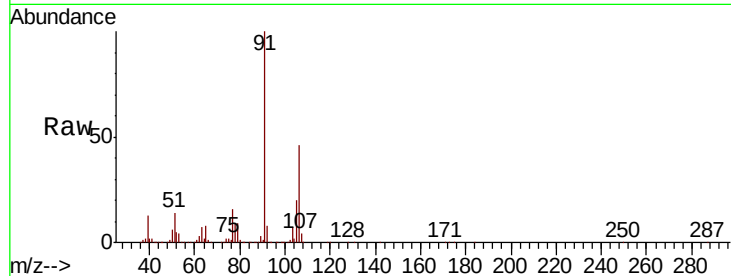
#59
m/p-Xylene
Concen: 16.922 ppbv m
RT: 13.05 min Scan# 3192
Delta R.T. -0.01 min
Lab File: VL034383.D
Acq: 19 Nov 2019 17:33

Instrument :
MSVOA_L
ClientSampleId :
VL1119ABS01

Tot Ion: 91 Resp: 5038248
Ion Ratio Lower Upper
91 100
106 43.9 34.6 51.8

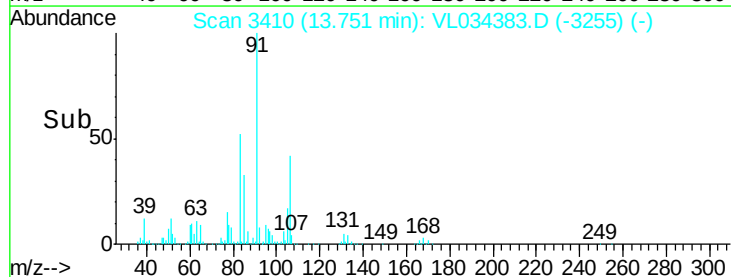
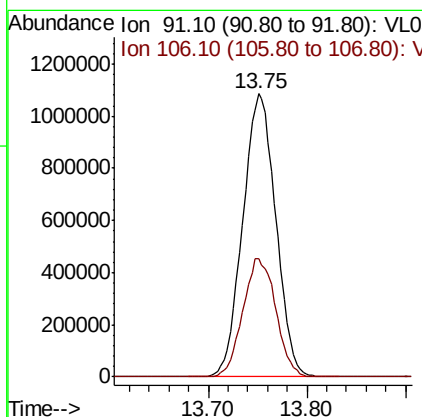
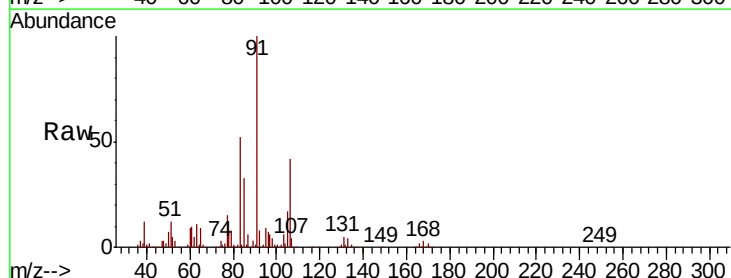
Manual Integrations
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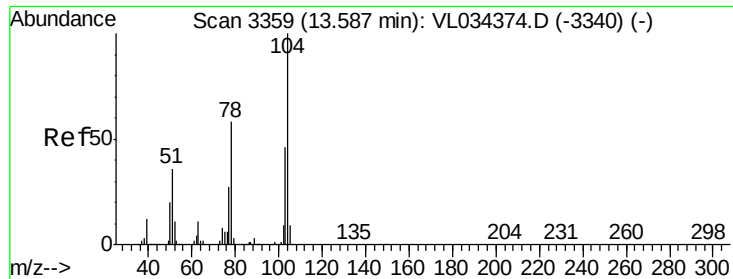
MMDadoda
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#60
o-Xylene
Concen: 8.520 ppbv
RT: 13.75 min Scan# 3410
Delta R.T. -0.00 min
Lab File: VL034383.D
Acq: 19 Nov 2019 17:33

Tgt Ion: 91 Resp: 2508233
Ion Ratio Lower Upper
91 100
106 41.8 21.3 64.0





#61

Stvrene

Concen: 8.908 ppbv

RT: 13.59 min Scan# 3359

Delta R.T. 0.00 min

Lab File: VL034383.D

Acq: 19 Nov 2019 17:33

Instrument :

MSVOA_L

ClientSampleId :

VL1119ABS01

Tot Ion:104 Resp: 1891023

Ion Ratio Lower Upper

104 100

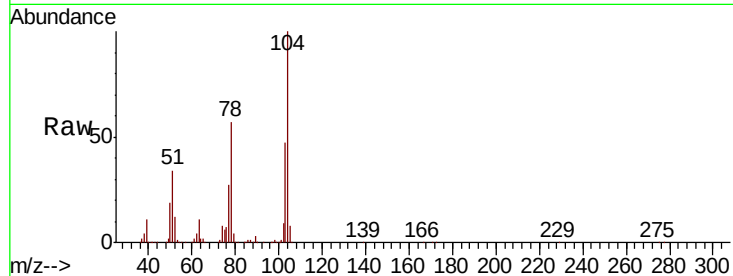
78 58.7 47.6 71.4

103 47.4 38.6 57.8

Manual Integrations
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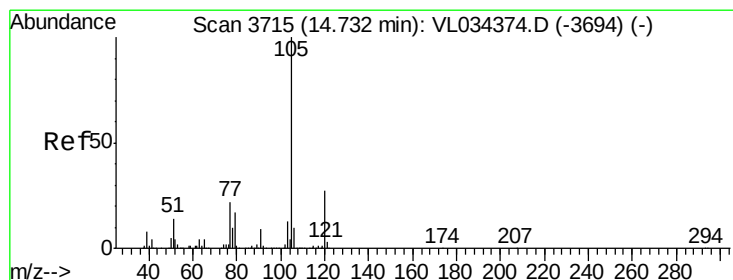
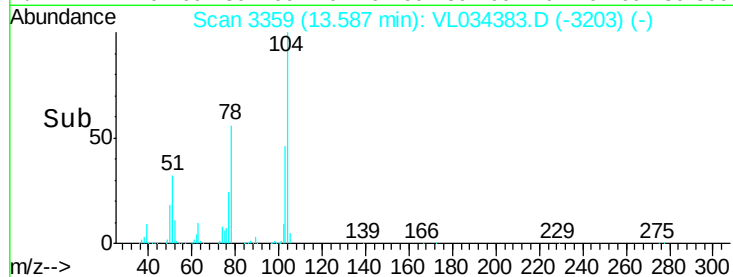
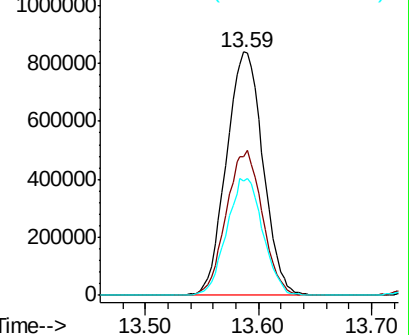
11/20/2019 3:53:52 PM



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: 8.381 ppbv

RT: 14.73 min Scan# 3714

Delta R.T. -0.00 min

Lab File: VL034383.D

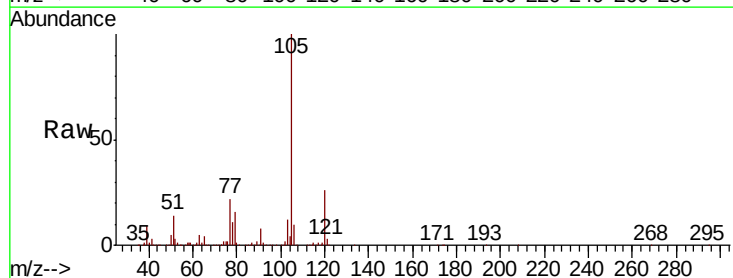
Acq: 19 Nov 2019 17:33

Tgt Ion:105 Resp: 3263066

Ion Ratio Lower Upper

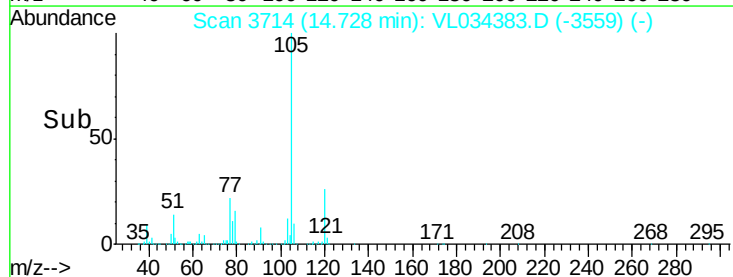
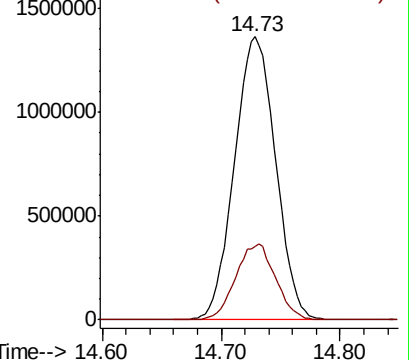
105 100

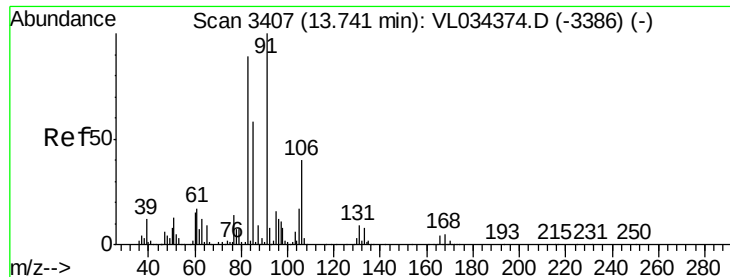
120 25.9 20.2 30.4



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: 7.629 ppbv

RT: 13.74 min Scan# 3406

Delta R.T. -0.00 min

Lab File: VL034383.D

Acq: 19 Nov 2019 17:33

Instrument :

MSVOA_L

ClientSampleId :

VL1119ABS01

Tot Ion: 83 Resp: 1688086

Ion Ratio Lower Upper

83 100

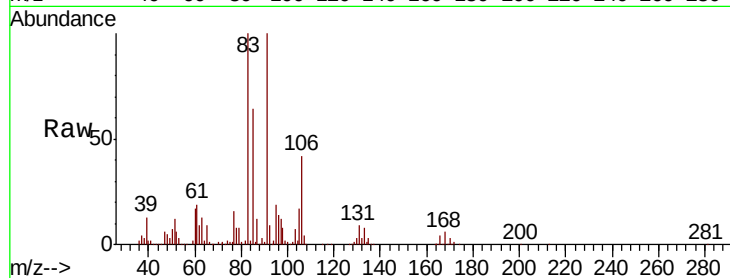
131 9.5 4.9 14.7

85 65.0 32.6 97.8

Manual Integrations
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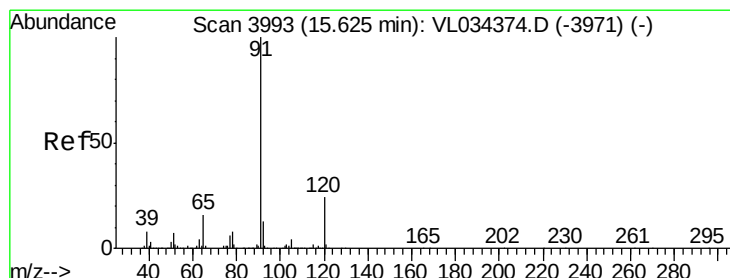
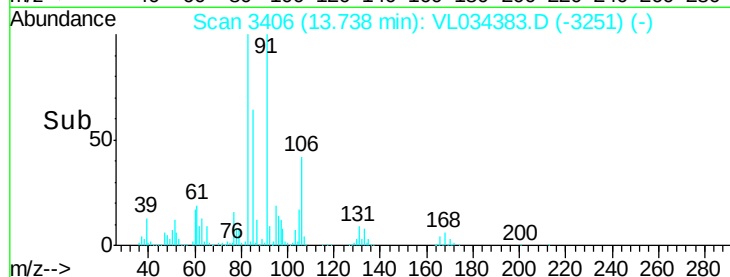
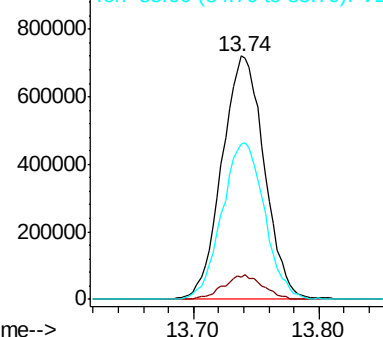
11/20/2019 3:53:52 PM



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 8.273 ppbv

RT: 15.63 min Scan# 3993

Delta R.T. 0.00 min

Lab File: VL034383.D

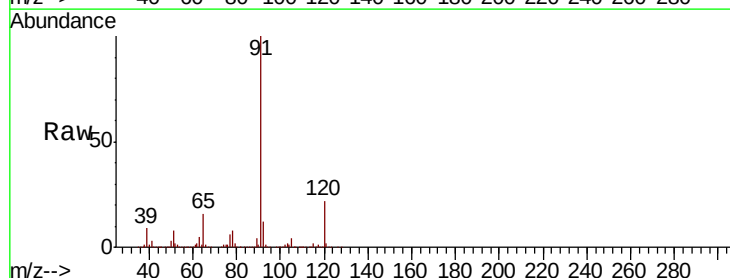
Acq: 19 Nov 2019 17:33

Tgt Ion: 120 Resp: 836476

Ion Ratio Lower Upper

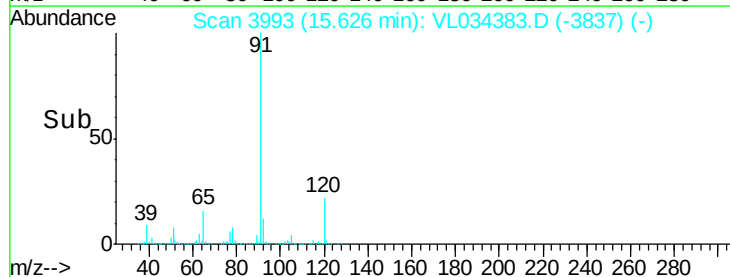
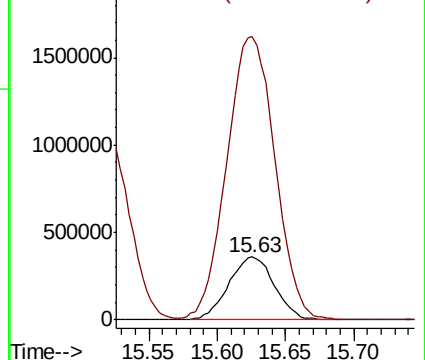
120 100

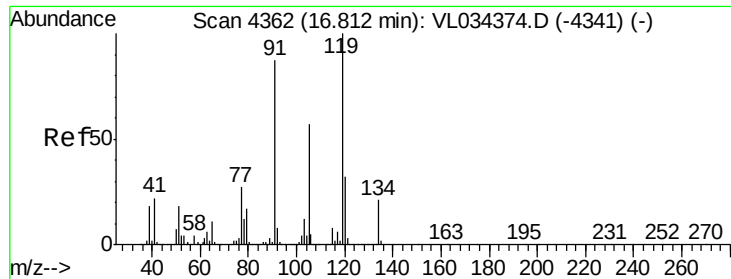
91 477.1 370.9 556.3



Abundance Ion 120.20 (119.90 to 120.90): VL0

Ion 91.10 (90.80 to 91.80): VL0





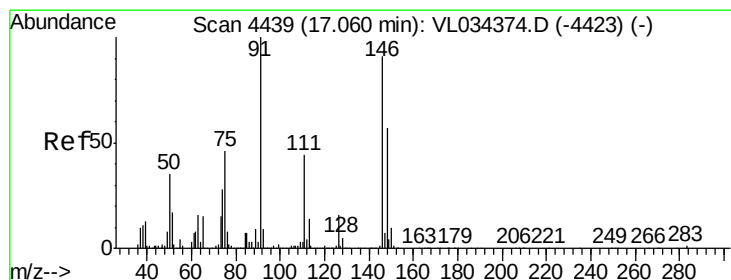
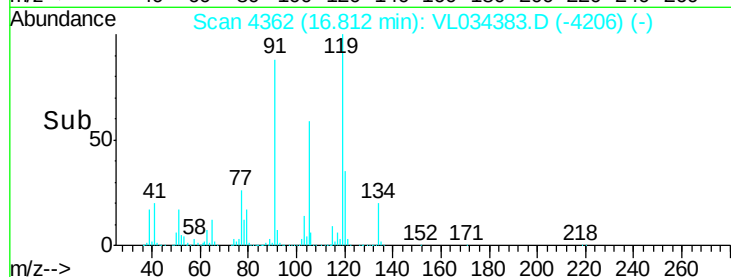
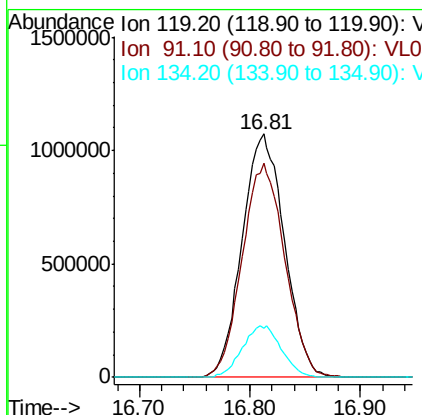
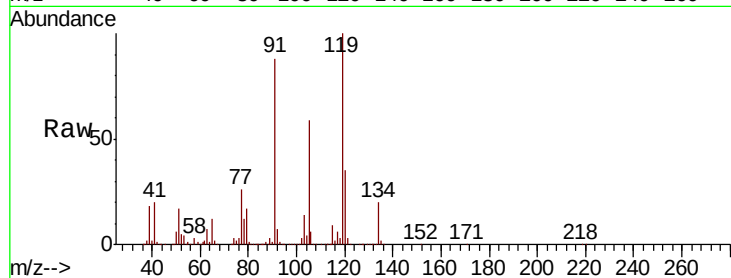
#65
 tert-Butylbenzene
 Concen: 8.151 ppbv
 RT: 16.81 min Scan# 4362
 Delta R.T. 0.00 min
 Lab File: VL034383.D
 Acq: 19 Nov 2019 17:33

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1119ABS01

Tot Ion: 119 Resp: 2850661
 Ion Ratio Lower Upper
 119 100
 91 88.8 71.6 107.4
 134 19.7 15.9 23.9

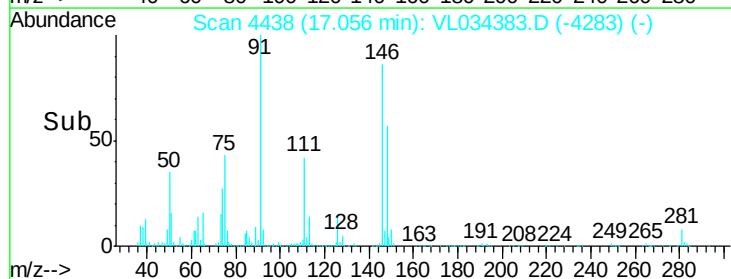
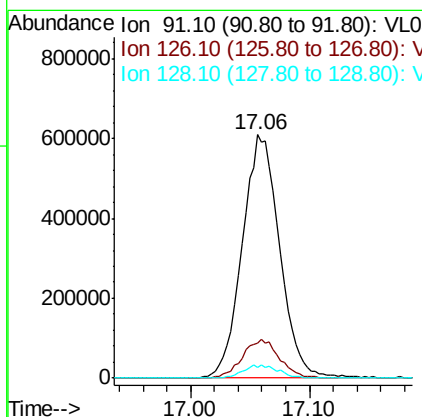
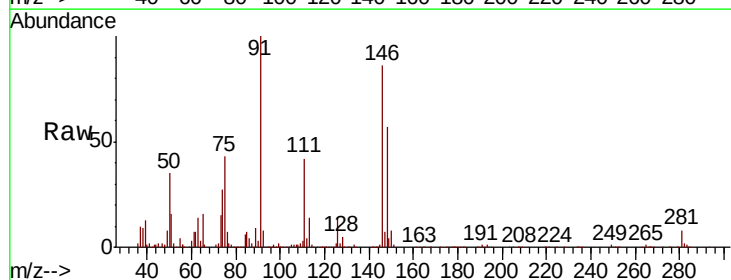
Manual Integrations
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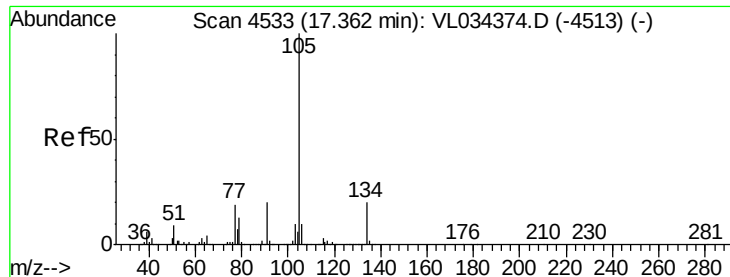
MMDadoda
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#66
 Benzyl Chloride
 Concen: 9.818 ppbv
 RT: 17.06 min Scan# 4438
 Delta R.T. -0.00 min
 Lab File: VL034383.D
 Acq: 19 Nov 2019 17:33

Tgt Ion: 91 Resp: 1320916
 Ion Ratio Lower Upper
 91 100
 126 15.8 12.9 19.3
 128 5.1 4.3 6.5





#67

sec-Butylbenzene

Concen: 8.094 ppbv

RT: 17.36 min Scan# 4533

Delta R.T. 0.00 min

Lab File: VL034383.D

Acq: 19 Nov 2019 17:33

Instrument :

MSVOA_L

ClientSampleId :

VL1119ABS01

Tot Ion:105 Resp: 3959553

Ion Ratio Lower Upper

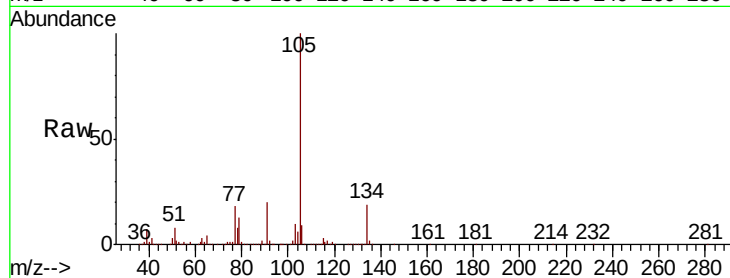
105 100

134 18.5 15.0 22.6

Manual Integrations
APPROVED

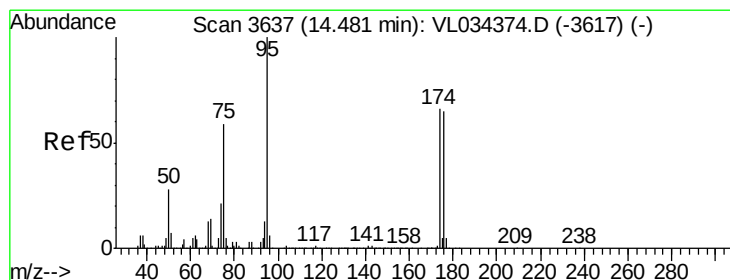
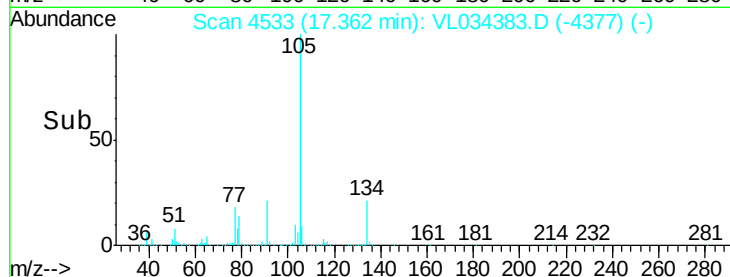
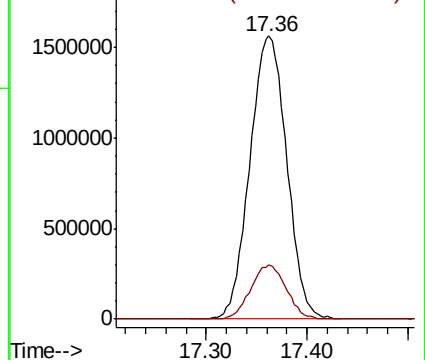
MMDadoda

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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 9.569 ppbv

RT: 14.48 min Scan# 3637

Delta R.T. 0.00 min

Lab File: VL034383.D

Acq: 19 Nov 2019 17:33

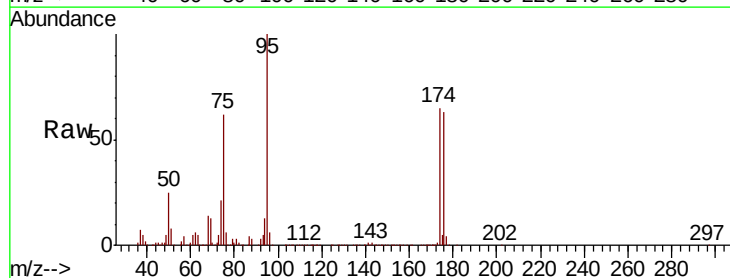
Tgt Ion: 95 Resp: 1786713

Ion Ratio Lower Upper

95 100

174 66.1 52.2 78.2

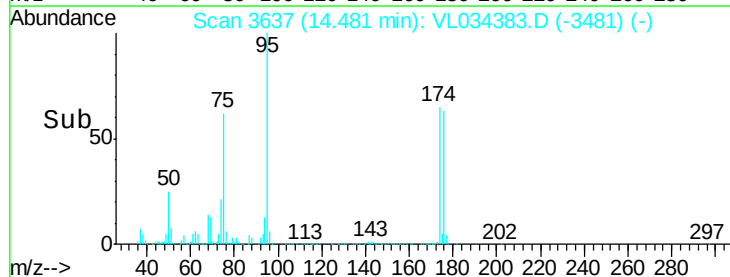
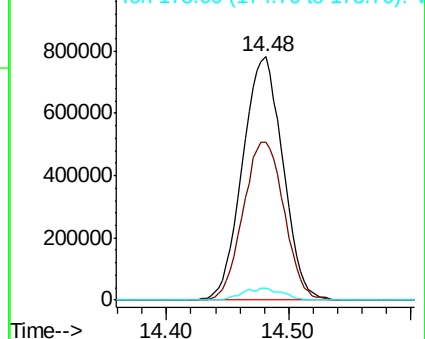
175 4.8 3.8 5.8

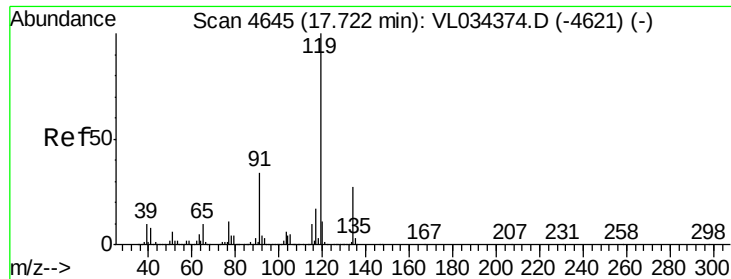


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





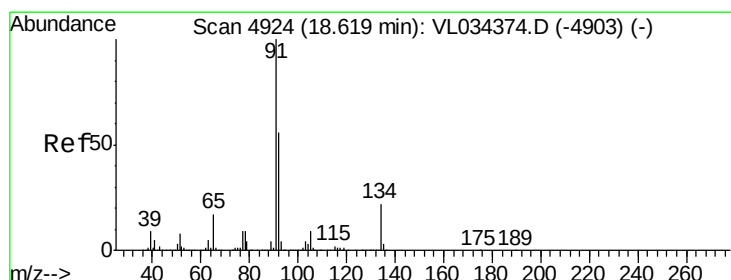
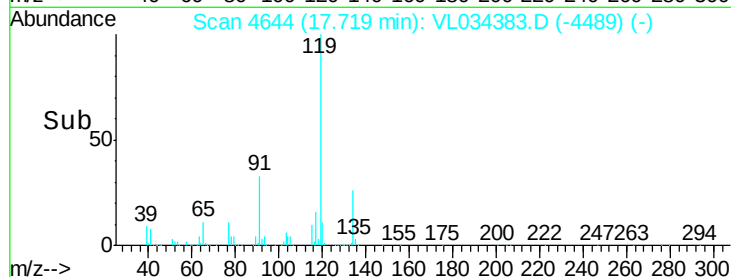
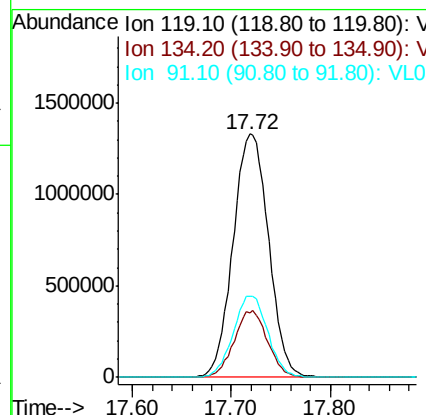
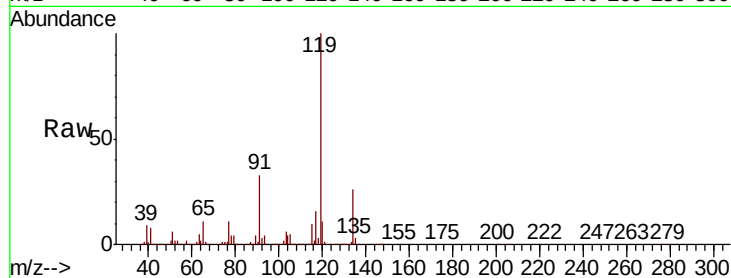
#69
p-Isopropyltoluene
Concen: 8.203 ppbv
RT: 17.72 min Scan# 4644
Delta R.T. -0.00 min
Lab File: VL034383.D
Acq: 19 Nov 2019 17:33

Instrument :
MSVOA_L
ClientSampleId :
VL1119ABS01

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.9	20.6	31.0
91	32.5	26.3	39.5

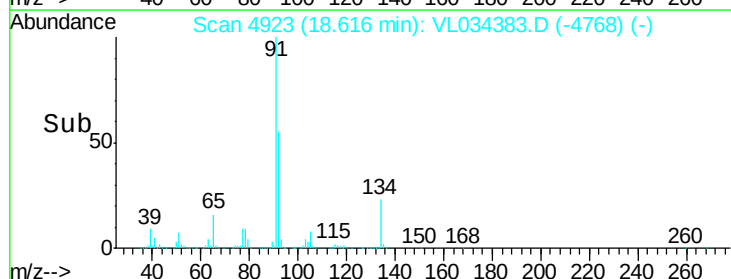
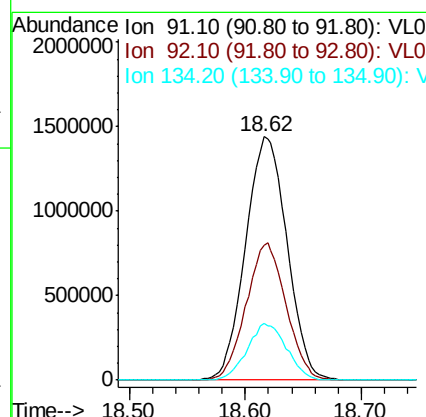
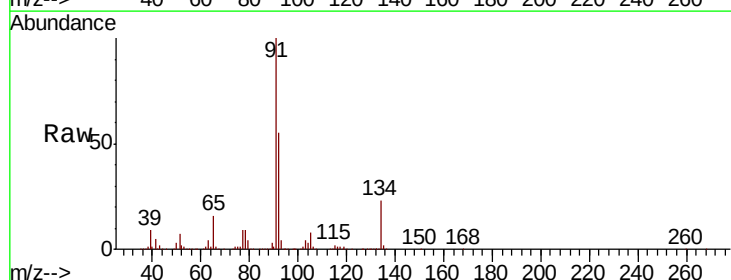
Manual Integrations
APPROVED

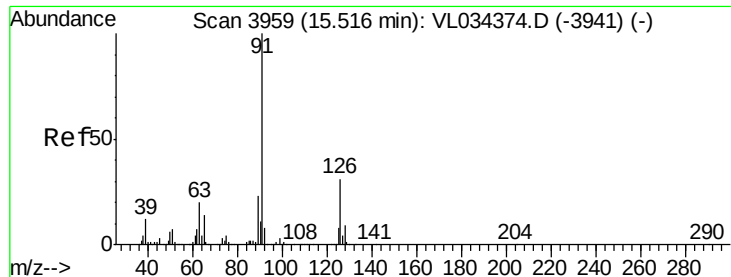
MMDadoda
11/20/2019 3:53:52 PM



#70
n-Butylbenzene
Concen: 8.168 ppbv
RT: 18.62 min Scan# 4923
Delta R.T. -0.00 min
Lab File: VL034383.D
Acq: 19 Nov 2019 17:33

Tgt Ion	Ratio	Lower	Upper
91	100		
92	54.4	43.8	65.6
134	22.3	17.9	26.9





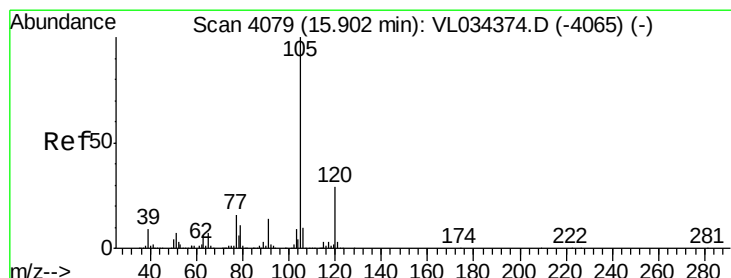
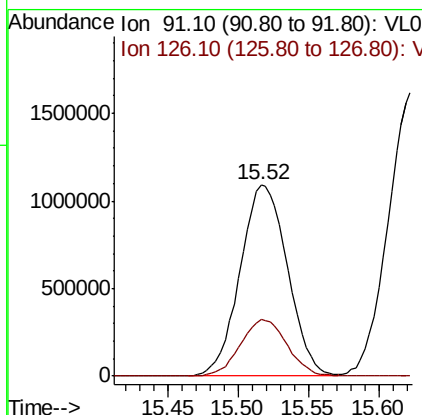
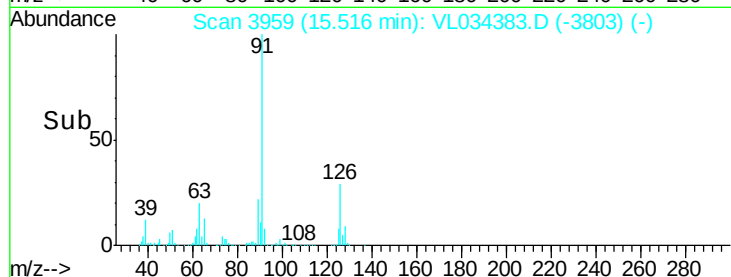
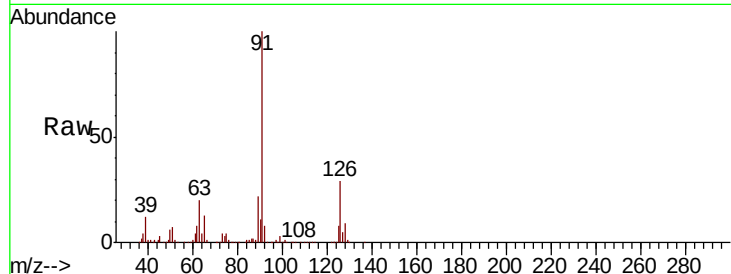
#71
 2-Chlorotoluene
 Concen: 8.226 ppbv
 RT: 15.52 min Scan# 3959
 Delta R.T. 0.00 min
 Lab File: VL034383.D
 Acq: 19 Nov 2019 17:33

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1119ABS01

Tot Ion: 91 Resp: 2553794
 Ion Ratio Lower Upper
 91 100
 126 29.3 11.8 47.4

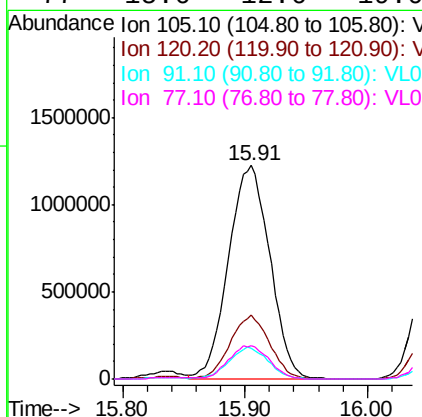
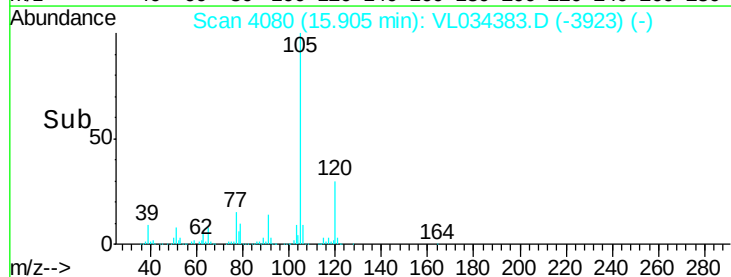
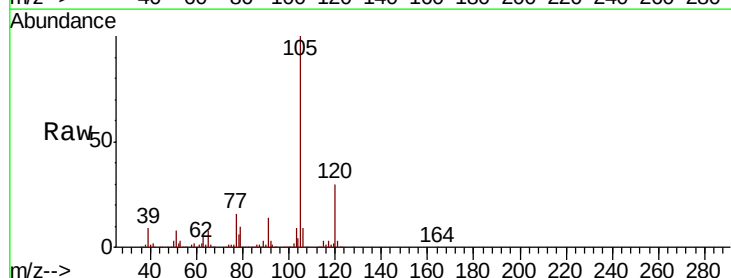
Manual Integrations
 APPROVED

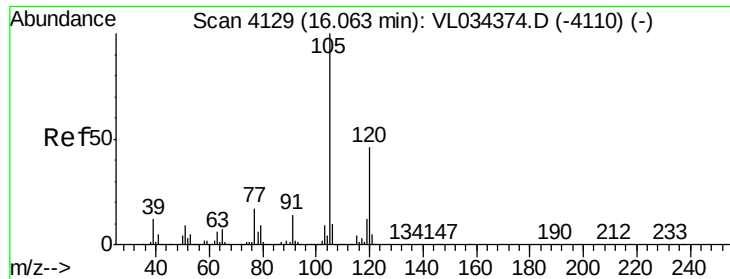
MMDadoda
 11/20/2019 3:53:52 PM



#72
 4-Ethyltoluene
 Concen: 8.452 ppbv
 RT: 15.91 min Scan# 4080
 Delta R.T. 0.00 min
 Lab File: VL034383.D
 Acq: 19 Nov 2019 17:33

Tgt Ion: 105 Resp: 2874764
 Ion Ratio Lower Upper
 105 100
 120 28.7 23.5 35.3
 91 14.2 11.4 17.0
 77 15.6 12.6 19.0





#73

1,3,5-Trimethylbenzene

Concen: 8.221 ppbv

RT: 16.06 min Scan# 4128

Delta R.T. -0.00 min

Lab File: VL034383.D

Acq: 19 Nov 2019 17:33

Instrument :

MSVOA_L

ClientSampleId :

VL1119ABS01

Tot Ion:105 Resp: 2737058

Ion Ratio Lower Upper

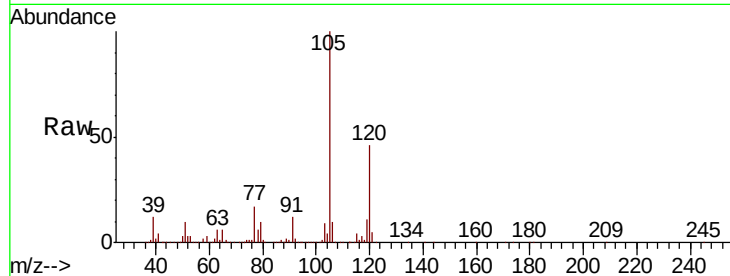
105 100

120 45.7 37.1 55.7

Manual Integrations
APPROVED

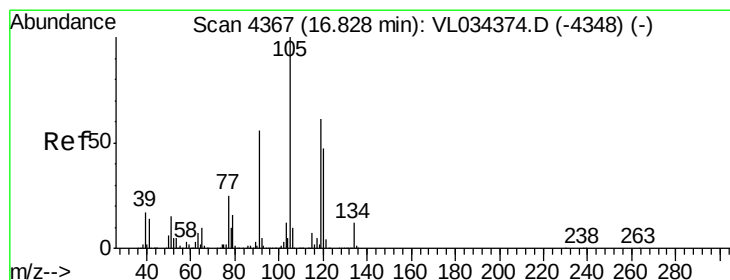
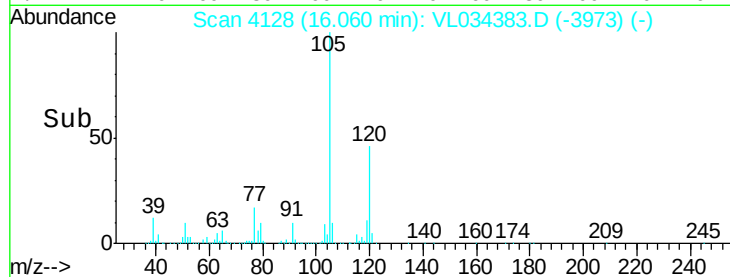
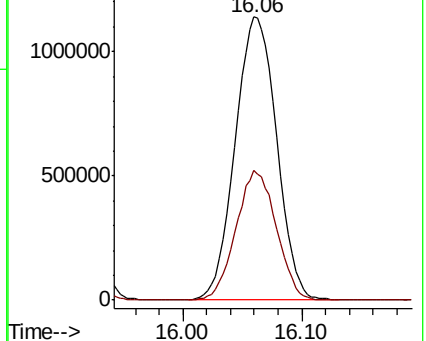
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 7.878 ppbv

RT: 16.83 min Scan# 4368

Delta R.T. 0.00 min

Lab File: VL034383.D

Acq: 19 Nov 2019 17:33

Tgt Ion:105 Resp: 2786120

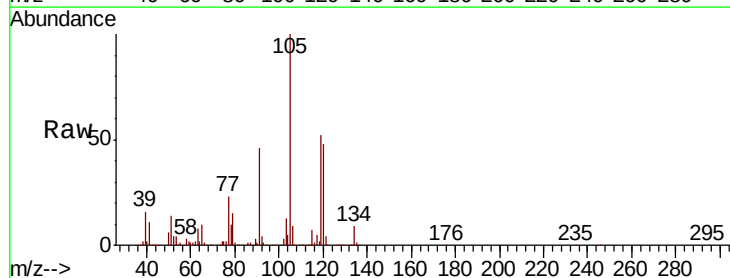
Ion Ratio Lower Upper

105 100

120 47.6 37.4 56.0

91 45.4 46.3 69.5#

77 22.7 20.6 30.8

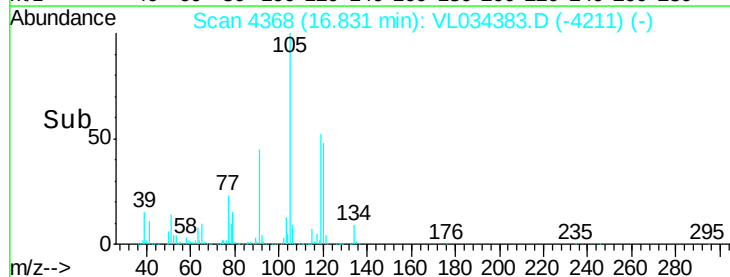
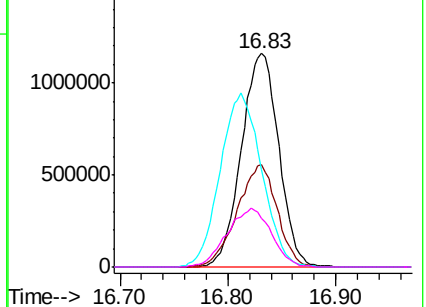


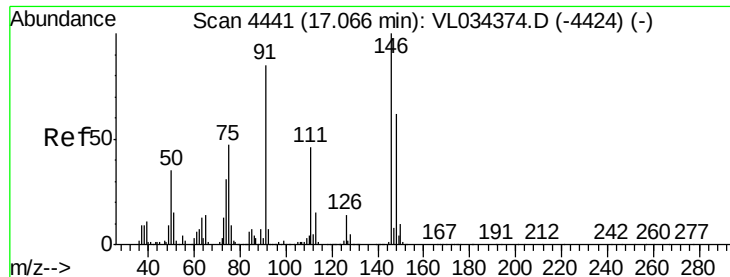
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





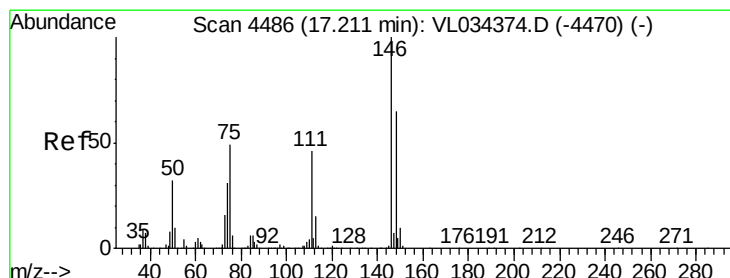
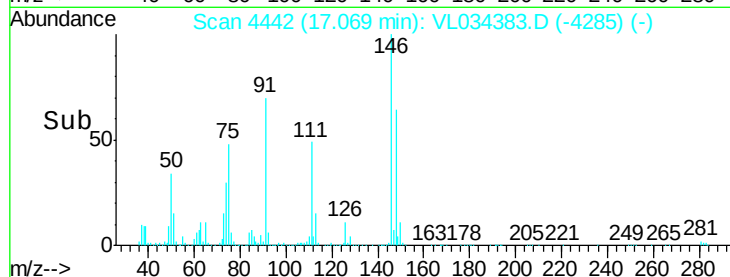
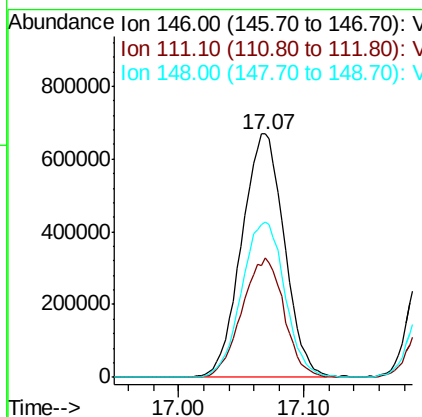
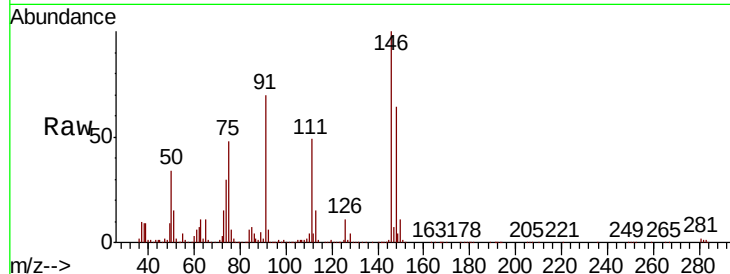
#75
 1,3-Dichlorobenzene
 Concen: 7.779 ppbv
 RT: 17.07 min Scan# 4442
 Delta R.T. 0.00 min
 Lab File: VL034383.D
 Acq: 19 Nov 2019 17:33

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1119ABS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	48.5	24.4	73.4
148	64.7	32.4	97.0

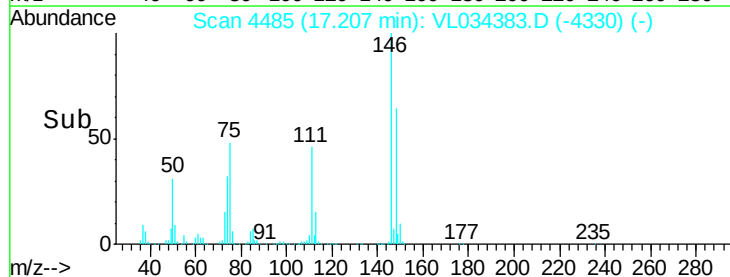
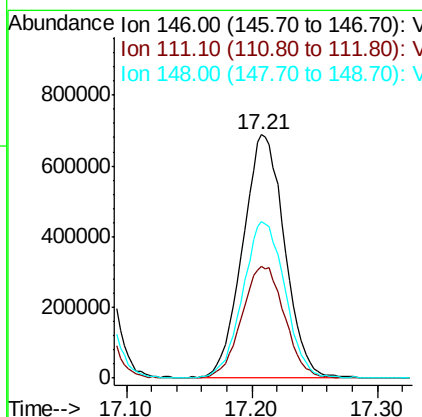
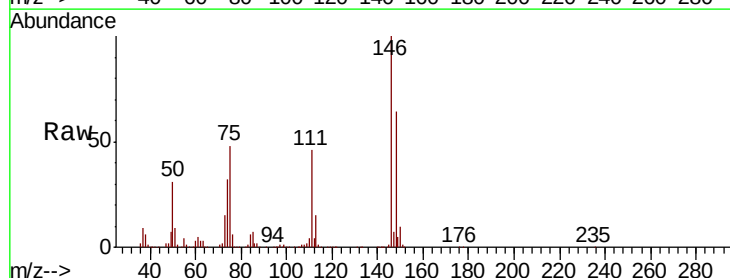
Manual Integrations
 APPROVED

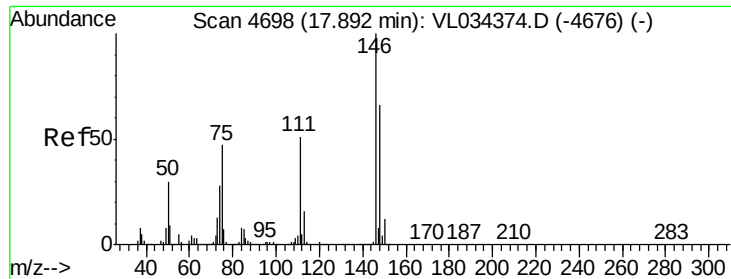
MMDadoda
 11/20/2019 3:53:52 PM



#76
 1,4-Dichlorobenzene
 Concen: 8.048 ppbv
 RT: 17.21 min Scan# 4485
 Delta R.T. -0.00 min
 Lab File: VL034383.D
 Acq: 19 Nov 2019 17:33

Tgt Ion	Ratio	Lower	Upper
146	100		
111	47.2	24.1	72.3
148	65.3	32.9	98.6





#77

1,2-Dichlorobenzene

Concen: 7.885 ppbv

RT: 17.89 min Scan# 4696

Delta R.T. -0.01 min

Lab File: VL034383.D

Acq: 19 Nov 2019 17:33

Instrument :

MSVOA_L

ClientSampleId :

VL1119ABS01

Tot Ion:146 Resp: 1548306

Ion Ratio Lower Upper

146 100

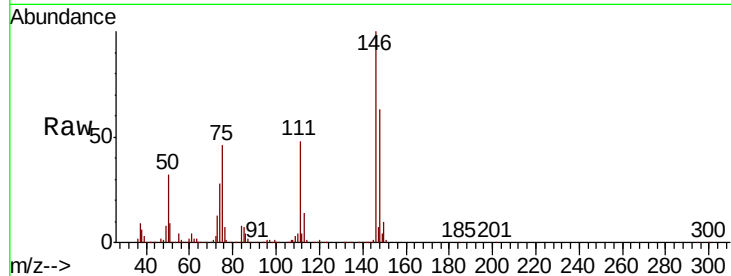
111 50.2 25.0 75.0

148 64.7 32.7 98.1

Manual Integrations
APPROVED

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11/20/2019 3:53:52 PM



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V

800000

600000

400000

200000

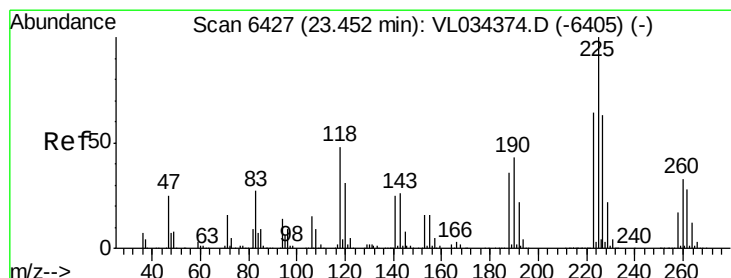
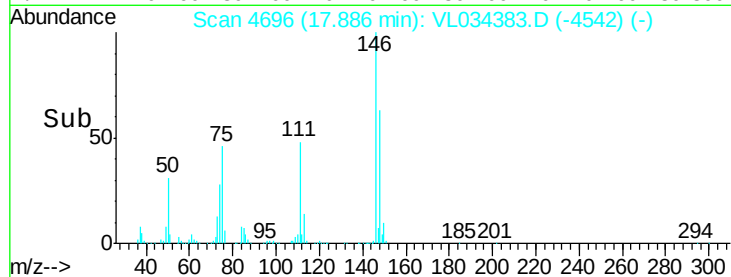
0

17.89

17.80

17.90

Time-->



#78

Hexachloro-1,3-Butadiene

Concen: 9.021 ppbv

RT: 23.45 min Scan# 6426

Delta R.T. -0.00 min

Lab File: VL034383.D

Acq: 19 Nov 2019 17:33

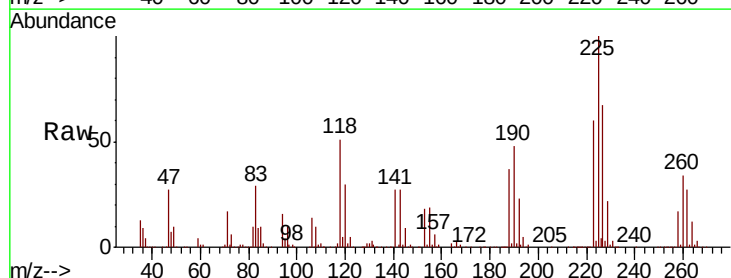
Tgt Ion:225 Resp: 1521873

Ion Ratio Lower Upper

225 100

223 63.3 50.2 75.2

227 65.7 51.5 77.3



Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V

800000

600000

400000

200000

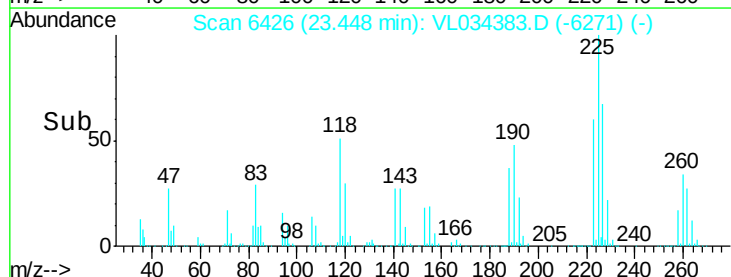
0

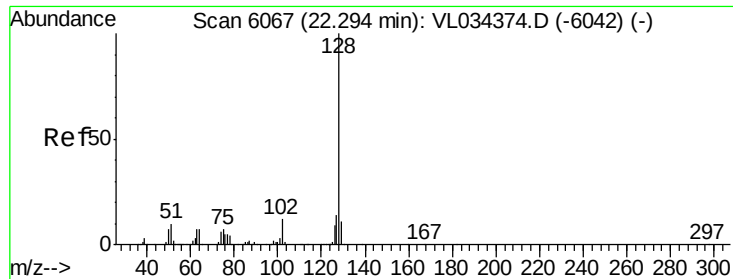
23.45

23.40

23.50

Time-->





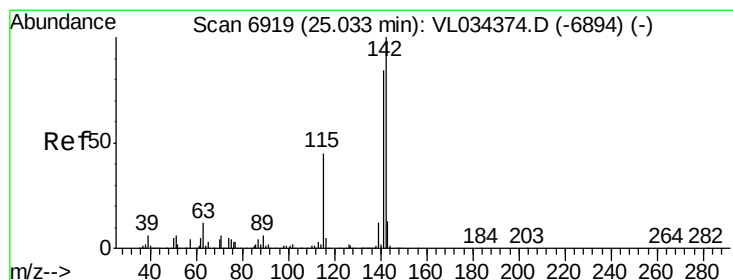
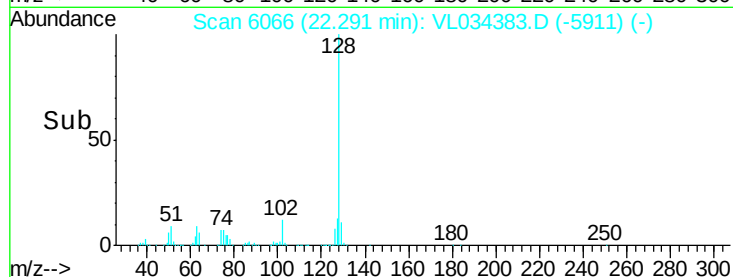
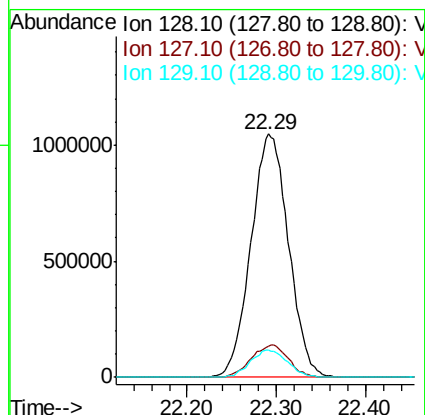
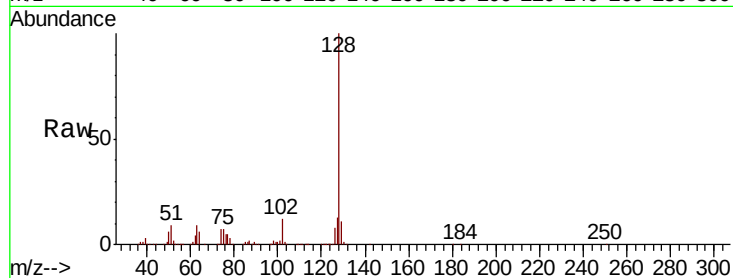
#79
Naphthalene
Concen: 10.005 ppbv
RT: 22.29 min Scan# 6066
Delta R.T. -0.00 min
Lab File: VL034383.D
Acq: 19 Nov 2019 17:33

Instrument :
MSVOA_L
ClientSampleId :
VL1119ABS01

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.0	11.0	16.6
129	11.3	8.9	13.3

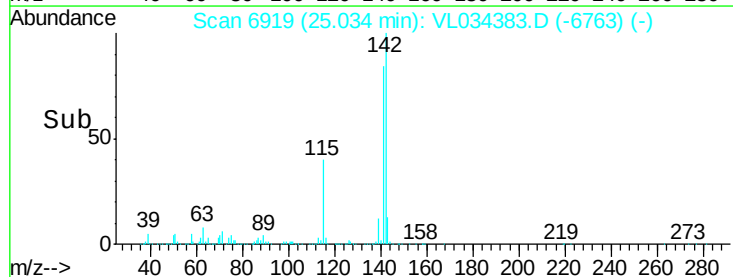
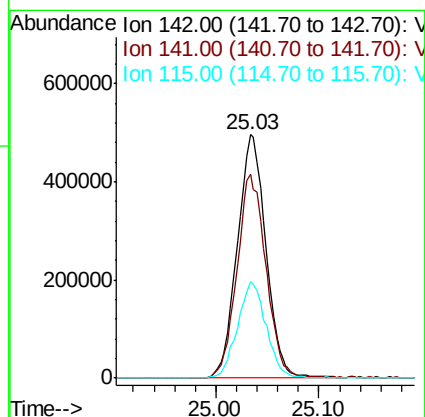
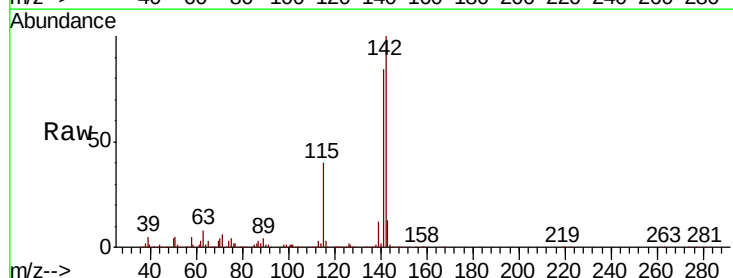
Manual Integrations
APPROVED

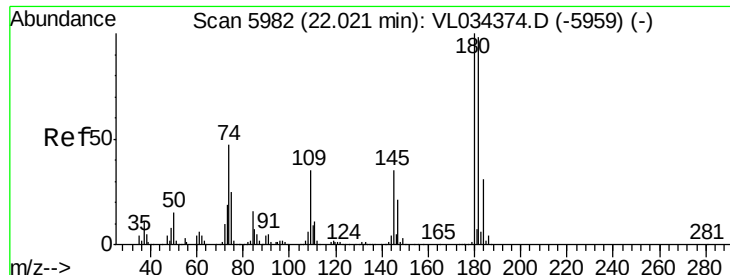
MMDadoda
11/20/2019 3:53:52 PM



#80
Naphthalene, 2-methyl-
Concen: 6.954 ppbv
RT: 25.03 min Scan# 6919
Delta R.T. 0.00 min
Lab File: VL034383.D
Acq: 19 Nov 2019 17:33

Tgt Ion	Ratio	Lower	Upper
142	100		
141	85.4	67.1	100.7
115	39.7	36.6	54.8





#81
 1,2,4-Trichlorobenzene
 Concen: 9.430 ppbv
 RT: 22.02 min Scan# 5982
 Delta R.T. 0.00 min
 Lab File: VL034383.D
 Acq: 19 Nov 2019 17:33

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1119ABS01

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.5	76.8	115.2
184	31.5	24.9	37.3

Manual Integrations
 APPROVED

MMDadoda
 11/20/2019 3:53:52 PM

