

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL111919\
 Data File : VL034380.D
 Acq On : 19 Nov 2019 13:42
 Operator : SY/AP
 Sample : VSTDIC015
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

MMDadoda
 11/20/2019 3:53:36 PM

Quant Time: Nov 19 14:15:12 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111919AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Nov 19 14:15:12 2019
 QLast Update : Tue Nov 19 12:55:12 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1027820	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.21	114	2126139	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.14	117	2214050	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.48	95	1869743	9.97	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.70%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.02	85	1798460	10.150	ppbv	98
3) Chlorodifluoromethane	2.96	51	1665237	13.823	ppbv	98
4) Chloromethane	3.11	50	1011843	14.199	ppbv	93
5) Vinyl Chloride	3.23	62	943414	13.884	ppbv	96
6) Bromomethane	3.46	94	502538	15.104	ppbv	99
7) Chloroethane	3.54	64	351162	14.684	ppbv	93
8) Dichlorotetrafluoroethane	3.16	85	2046386	13.328	ppbv	96
9) Propene	2.98	41	773695	14.488	ppbv	99
10) Heptane	8.16	43	2043075	14.906	ppbv	99
11) Trichlorofluoromethane	3.94	101	2346301	13.947	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.48	101	1615724	14.660	ppbv	99
13) Ethanol	3.59	45	166336	13.911	ppbv	97
14) Bromoethene	3.73	108	689340	15.886	ppbv	99
15) Acetone	3.84	43	1781184	12.116	ppbv	100
16) 1,3-Butadiene	3.30	39	888470	14.874	ppbv	97
17) tert-Butyl alcohol	4.29	59	1611892	17.179	ppbv	99
18) 1,1-Dichloroethene	4.28	96	721516	14.951	ppbv	94
19) Isopropyl Alcohol	3.96	45	1291085	15.743	ppbv	100
20) Methylene Chloride	4.34	84	653012	12.287	ppbv	97
21) Allyl Chloride	4.41	41	1267147	15.591	ppbv	99
22) trans-1,2-Dichloroethene	4.89	96	756578	15.718	ppbv	99
23) Vinyl Acetate	5.08	43	2737406	14.910	ppbv #	99
24) 1,1-Dichloroethane	5.02	63	1953773	14.339	ppbv	99
25) Ethyl Acetate	5.69	43	3421267	13.784	ppbv	99
26) Hexane	5.70	57	1483114	14.020	ppbv	98
27) Carbon Disulfide	4.55	76	1884126	17.155	ppbv	98
28) Methyl tert-Butyl Ether	5.03	73	2490813	15.557	ppbv	100
29) Chloroform	5.77	83	2402520	14.357	ppbv	96
30) Cyclohexane	7.16	84	1239707	15.934	ppbv	93
31) cis-1,2-Dichloroethene	5.56	61	1651924	15.386	ppbv	95
32) 1,1,1-Trichloroethane	6.54	97	2400175	14.749	ppbv	99
34) 2-Butanone	5.25	43	2341344	13.473	ppbv	98
35) Carbon Tetrachloride	7.05	117	2481446	13.399	ppbv	99
36) Benzene	6.92	78	2874539	14.091	ppbv	98
37) 1,2-Dichloroethane	6.33	62	2078809	13.673	ppbv	99
38) Trichloroethene	7.87	130	1135029	13.865	ppbv	94
39) 1,2-Dichloropropane	7.65	63	1215789	13.841	ppbv	98
40) 1,4-Dioxane	7.86	88	430214	13.937	ppbv	93
41) Tetrahydrofuran	6.07	42	1385379	14.364	ppbv	96
42) Bromodichloromethane	7.83	83	2682559	14.406	ppbv	98
43) Methyl Methacrylate	8.05	69	1271018	15.065	ppbv	97

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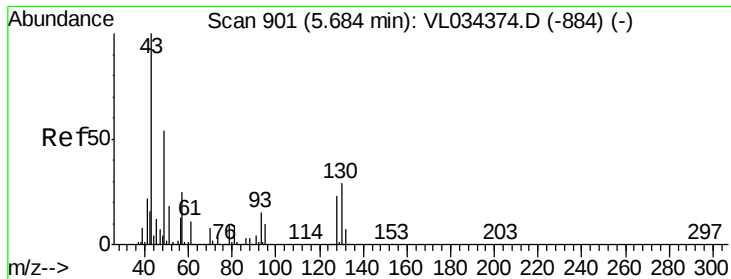
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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111919AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LTue Nov 19 14:15:12 2019
 QLast Update : Tue Nov 19 12:55:12 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.90	57	4933047	13.065	ppbv	99
45) t-1,3-Dichloropropene	9.33	75	1773223	17.250	ppbv	99
46) cis-1,3-Dichloropropene	8.75	75	1908884	16.164	ppbv	97
47) 1,1,2-Trichloroethane	9.53	97	1235782	13.889	ppbv	96
48) Dibromochloromethane	10.36	129	2239753	15.346	ppbv	99
49) Bromoform	13.11	173	2044283	15.807	ppbv	99
50) 4-Methyl-2-Pentanone	8.78	43	3423409	13.760	ppbv	97
51) 2-Hexanone	10.18	43	3002348	14.721	ppbv	98
52) Tetrachloroethene	11.28	164	1105628	13.827	ppbv	95
53) Toluene	9.86	91	3342234	14.846	ppbv	99
54) 1,2-Dibromoethane	10.66	107	1894226	14.364	ppbv	96
56) 1,1,1,2-Tetrachloroethane	12.19	131	1467572	14.383	ppbv #	76
57) Chlorobenzene	12.21	112	2530205	13.698	ppbv	97
58) Ethyl Benzene	12.77	91	4538997	14.665	ppbv	96
59) m/p-Xylene	13.06	91	7376773m	27.509	ppbv	
60) o-Xylene	13.75	91	3741912	14.013	ppbv	100
61) Styrene	13.59	104	2883479	15.338	ppbv	99
62) Isopropylbenzene	14.73	105	4881728	13.849	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.74	83	2672996	12.457	ppbv	99
64) n-propylbenzene	15.63	120	1335352	14.761	ppbv	91
65) tert-Butylbenzene	16.82	119	4361626	13.961	ppbv	99
66) Benzyl Chloride	17.06	91	2297463	18.619	ppbv	99
67) sec-Butylbenzene	17.36	105	5904454	13.430	ppbv	99
69) p-Isopropyltoluene	17.72	119	4990776	13.924	ppbv	99
70) n-Butylbenzene	18.62	91	5313118	13.624	ppbv	99
71) 2-Chlorotoluene	15.52	91	3952159	14.460	ppbv	99
72) 4-Ethyltoluene	15.91	105	4364936	14.542	ppbv	99
73) 1,3,5-Trimethylbenzene	16.07	105	4200604	14.124	ppbv	96
74) 1,2,4-Trimethylbenzene	16.83	105	4247692	13.696	ppbv	94
75) 1,3-Dichlorobenzene	17.08	146	2509618	13.477	ppbv	99
76) 1,4-Dichlorobenzene	17.22	146	2532515	13.924	ppbv	100
77) 1,2-Dichlorobenzene	17.90	146	2443134m	13.382	ppbv	
78) Hexachloro-1,3-Butadiene	23.45	225	2178634	14.427	ppbv	99
79) Naphthalene	22.29	128	3970155	17.524	ppbv	98
80) Naphthalene, 2-methyl-	25.04	142	2392402	36.532	ppbv	94
81) 1,2,4-Trichlorobenzene	22.02	180	2397547	16.203	ppbv	99

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 min Scan# 901

Delta R.T. -0.01 min

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VSTDIC015

Tot Ion: 49 Resp: 1027820

Ion Ratio Lower Upper

49 100

128 42.4 20.6 61.8

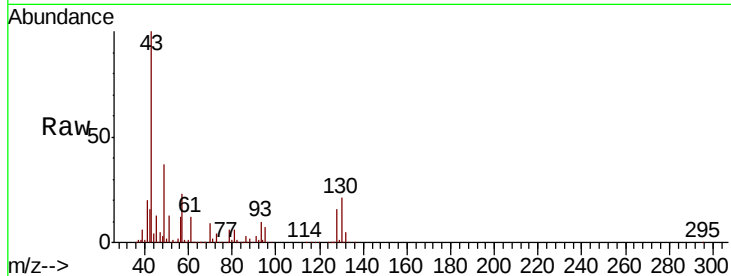
130 55.3 26.2 78.5

Manual Integrations

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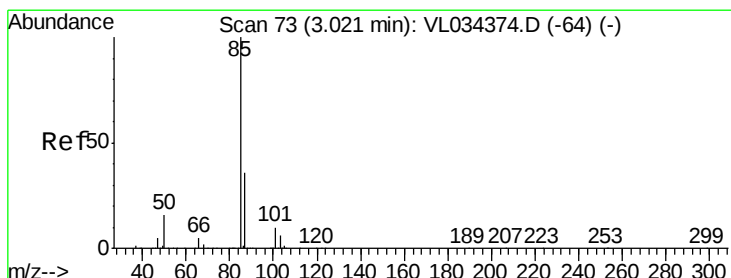
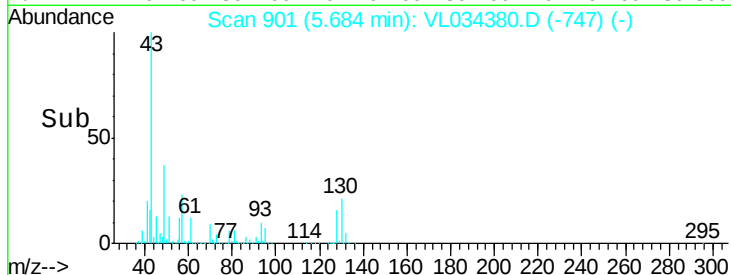
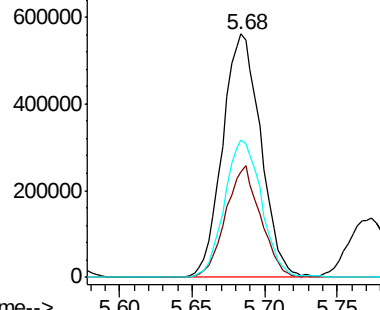
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 10.150 ppbv

RT: 3.02 min Scan# 73

Delta R.T. -0.01 min

Lab File: VL034380.D

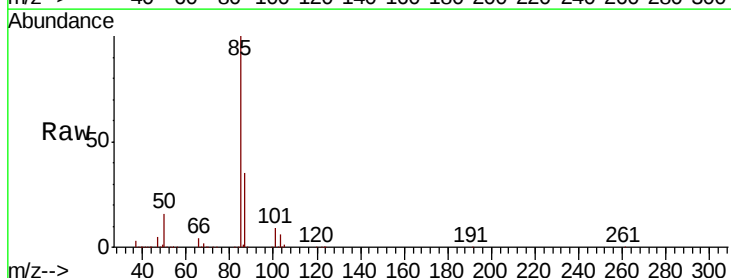
Acq: 19 Nov 2019 13:42

Tgt Ion: 85 Resp: 1798460

Ion Ratio Lower Upper

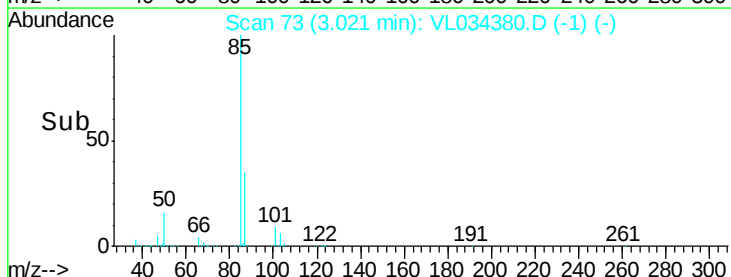
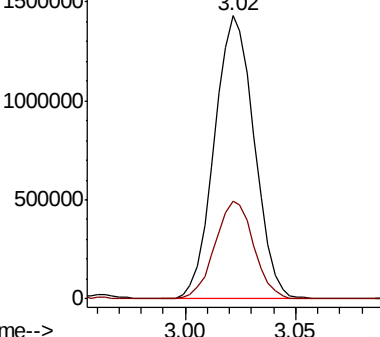
85 100

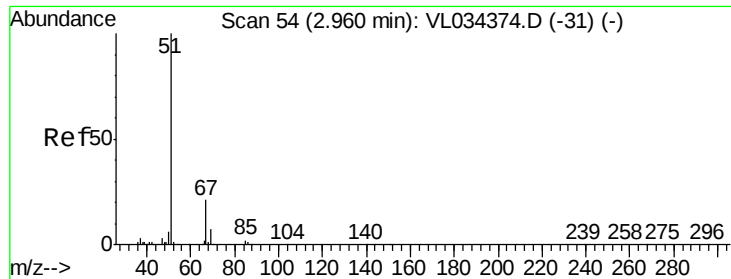
87 34.7 27.0 40.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 13.823 ppbv

RT: 2.96 min Scan# 54

Delta R.T. -0.00 min

Lab File: VL034380.D

Acq: 19 Nov 2019 13:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 51 Resp: 1665237

Ion Ratio Lower Upper

51 100

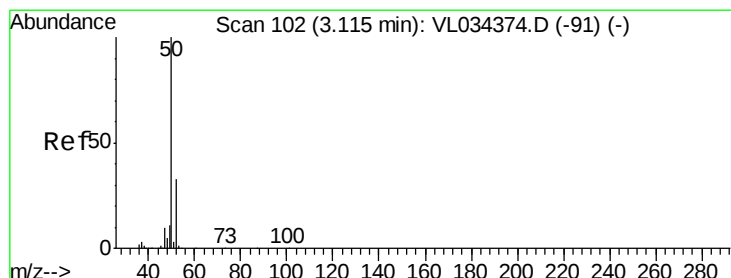
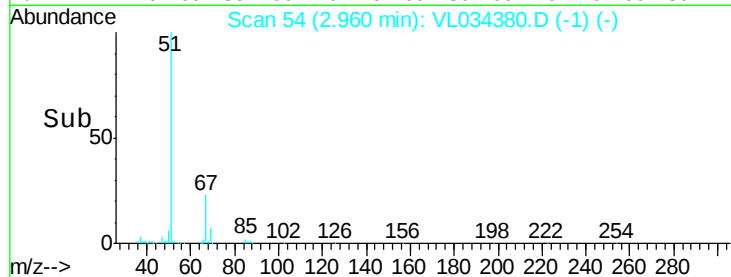
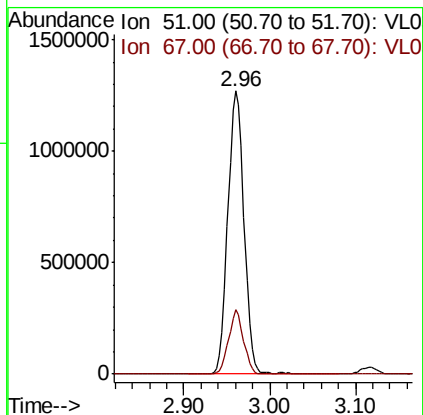
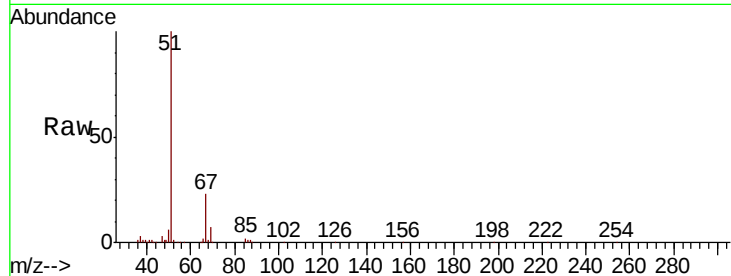
67 20.8 15.8 23.8

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#4

Chloromethane

Concen: 14.199 ppbv

RT: 3.11 min Scan# 102

Delta R.T. -0.01 min

Lab File: VL034380.D

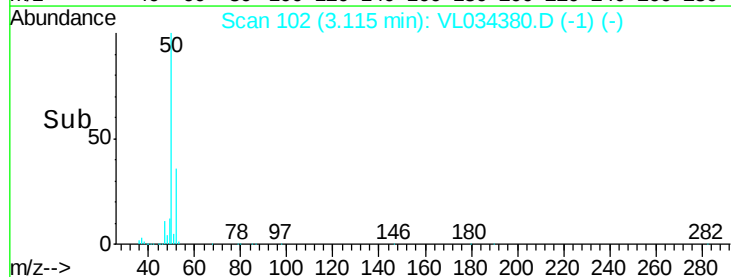
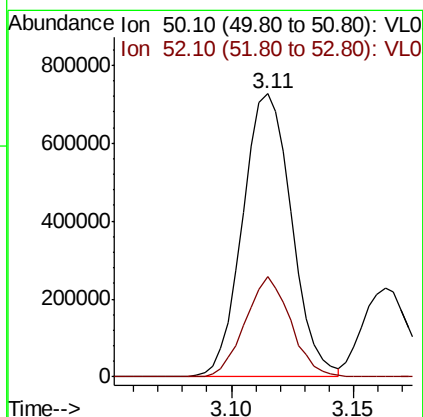
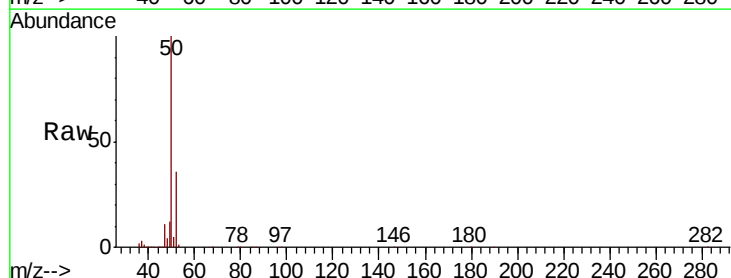
Acq: 19 Nov 2019 13:42

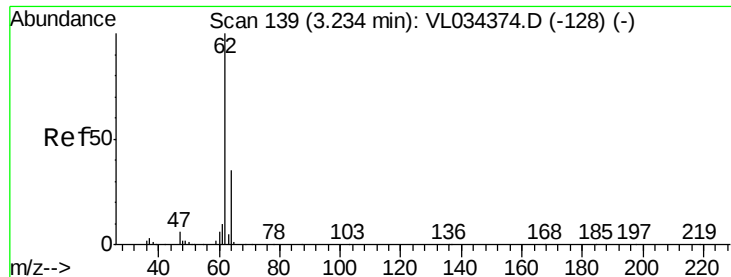
Tgt Ion: 50 Resp: 1011843

Ion Ratio Lower Upper

50 100

52 35.5 25.4 38.2





#5

Vinyl Chloride

Concen: 13.884 ppbv

RT: 3.23 min Scan# 139

Delta R.T. -0.01 min

Lab File: VL034380.D

Acq: 19 Nov 2019 13:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 62 Resp: 943414

Ion Ratio Lower Upper

62 100

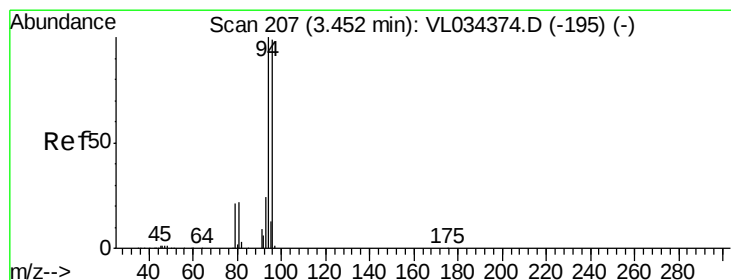
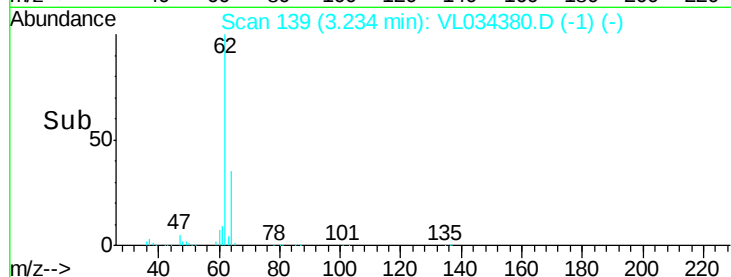
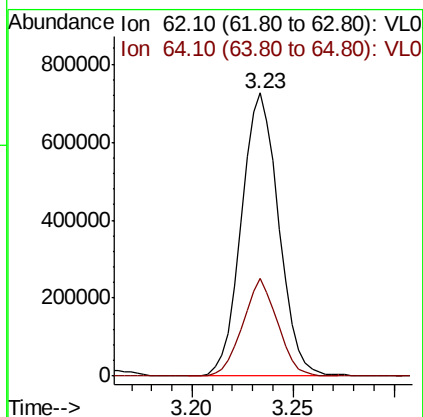
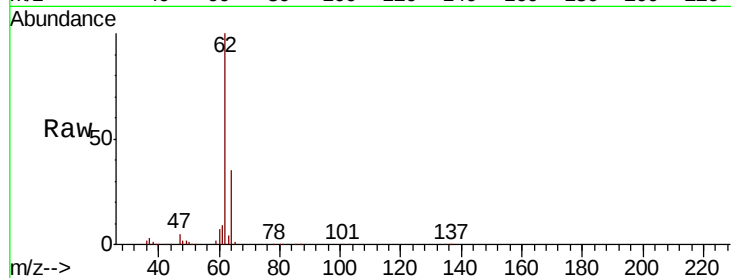
64 34.5 26.0 39.0

Manual Integrations

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#6

Bromomethane

Concen: 15.104 ppbv

RT: 3.46 min Scan# 208

Delta R.T. -0.00 min

Lab File: VL034380.D

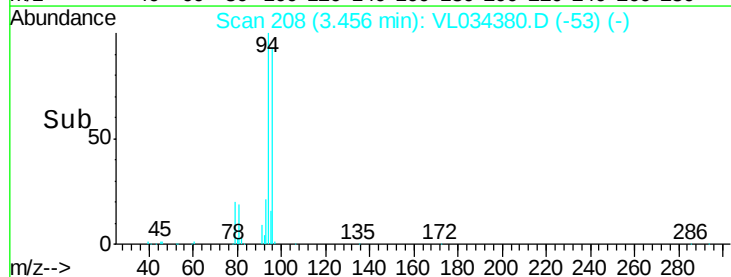
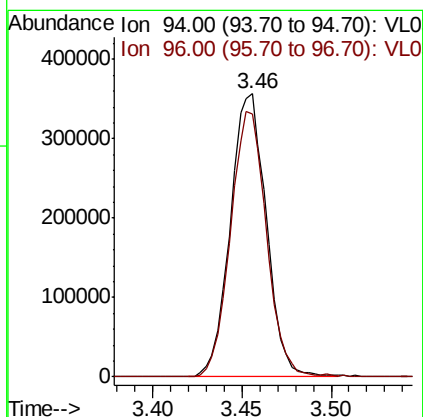
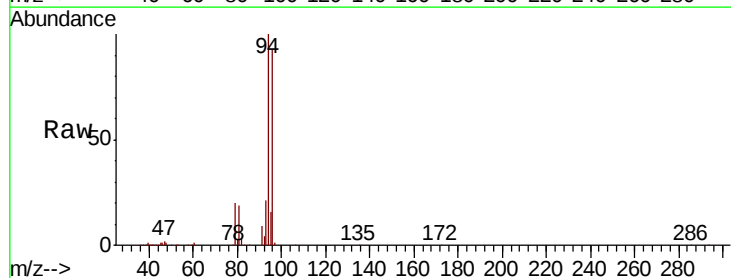
Acq: 19 Nov 2019 13:42

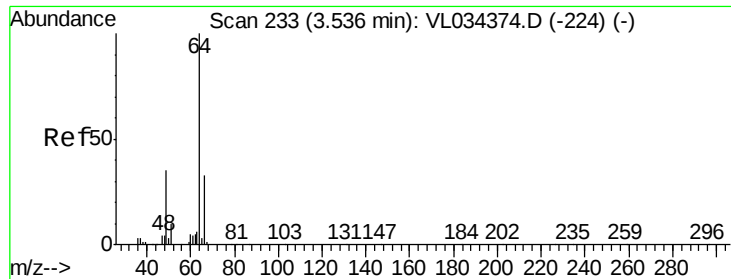
Tgt Ion: 94 Resp: 502538

Ion Ratio Lower Upper

94 100

96 92.7 74.6 112.0





#7

Chloroethane

Concen: 14.684 ppbv

RT: 3.54 min Scan# 234

Delta R.T. -0.00 min

Lab File: VL034380.D

Acq: 19 Nov 2019 13:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 64 Resp: 351162

Ion Ratio Lower Upper

64 100

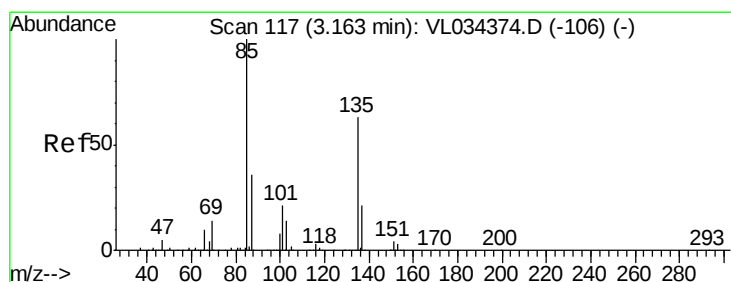
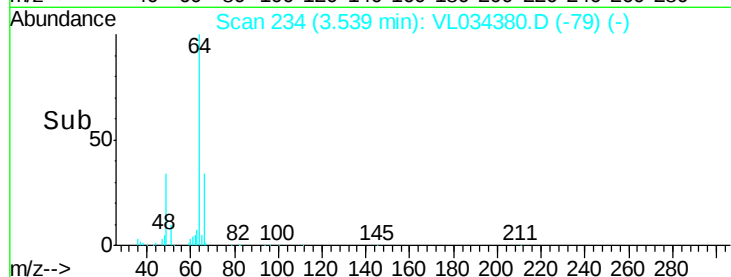
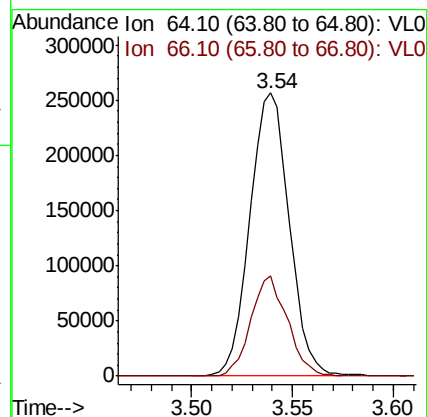
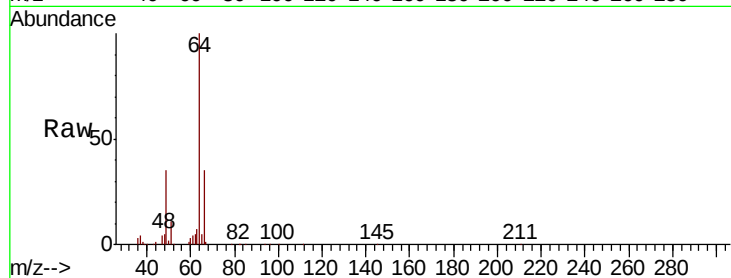
66 35.4 25.4 38.0

Manual Integrations

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#8

Dichlorotetrafluoroethane

Concen: 13.328 ppbv

RT: 3.16 min Scan# 117

Delta R.T. -0.01 min

Lab File: VL034380.D

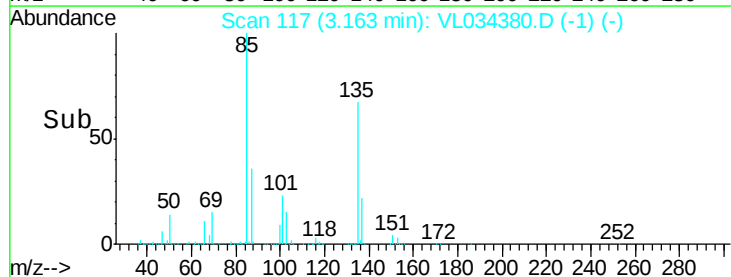
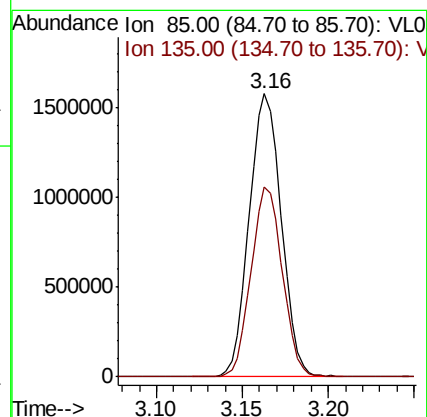
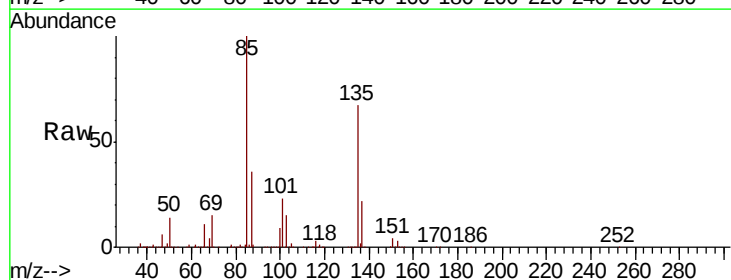
Acq: 19 Nov 2019 13:42

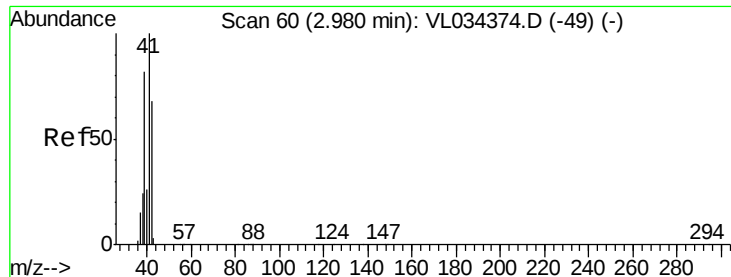
Tgt Ion: 85 Resp: 2046386

Ion Ratio Lower Upper

85 100

135 65.6 50.2 75.2





#9

Propene

Concen: 14.488 ppbv

RT: 2.98 min Scan# 61

Delta R.T. -0.00 min

Lab File: VL034380.D

Acq: 19 Nov 2019 13:42

Tot Ion: 41 Resp: 773695

Ion Ratio Lower Upper

41 100

42 68.5 53.9 80.9

Instrument :

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ClientSampleId :

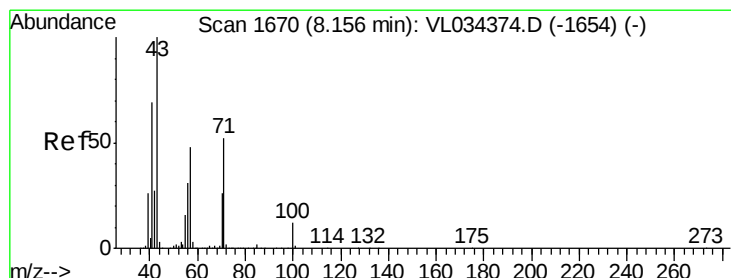
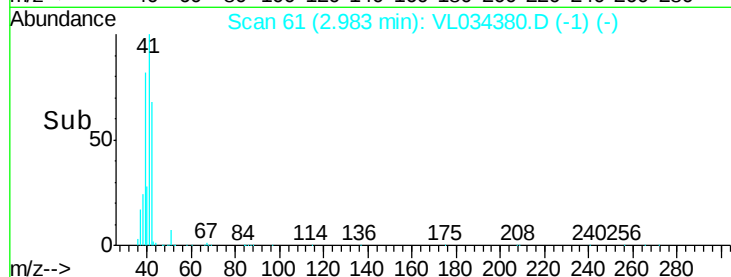
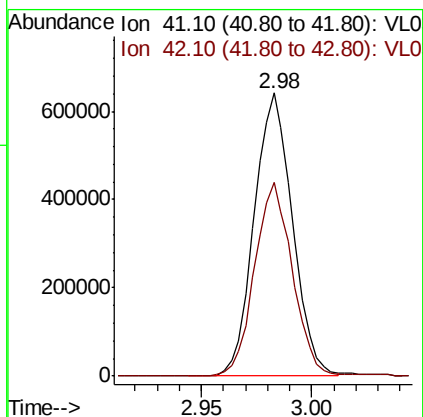
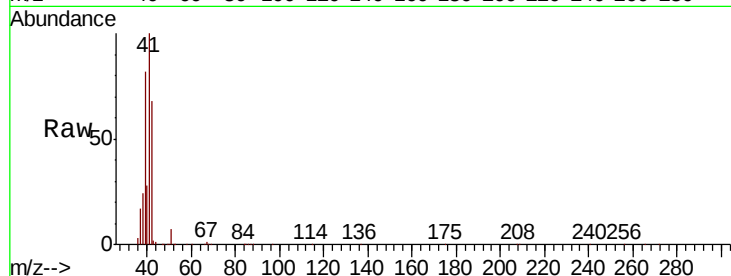
VSTDIC015

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#10

Heptane

Concen: 14.906 ppbv

RT: 8.16 min Scan# 1671

Delta R.T. -0.01 min

Lab File: VL034380.D

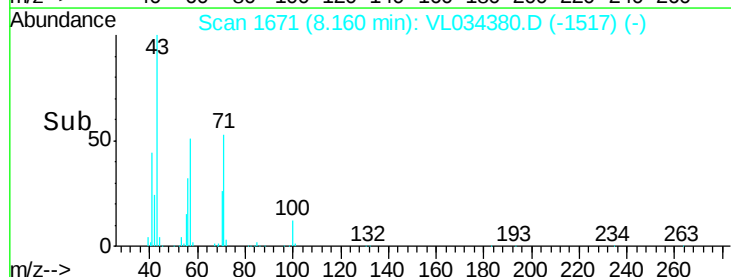
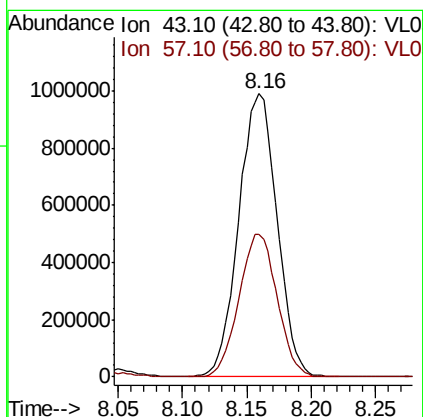
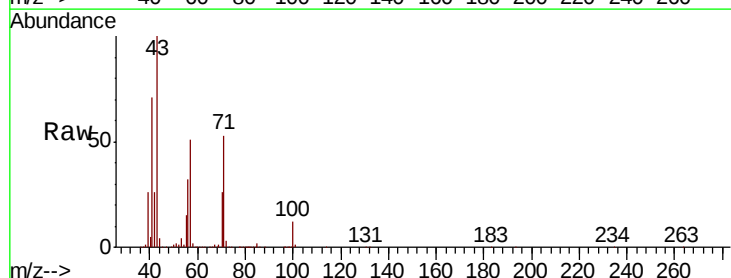
Acq: 19 Nov 2019 13:42

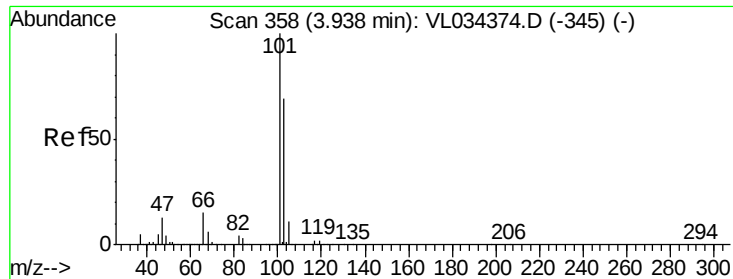
Tgt Ion: 43 Resp: 2043075

Ion Ratio Lower Upper

43 100

57 50.4 39.5 59.3





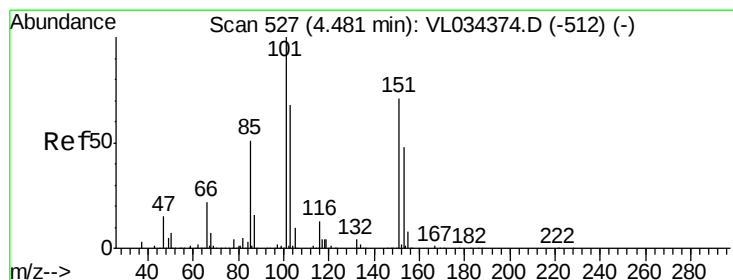
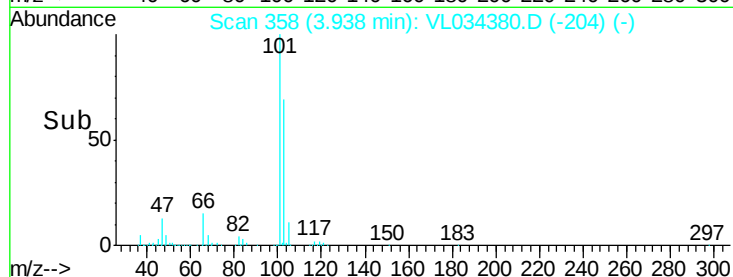
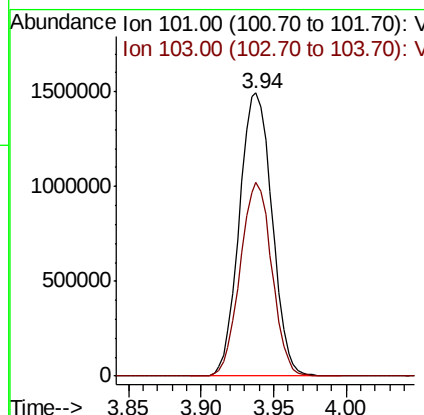
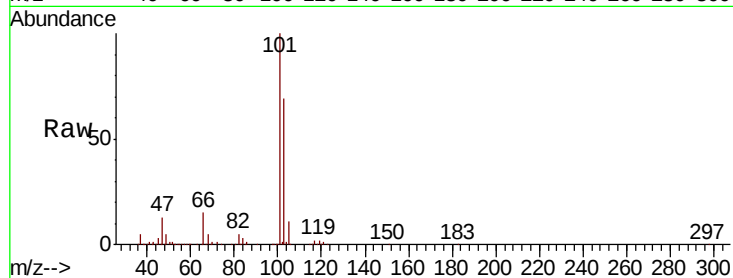
#11
 Trichlorofluoromethane
 Concen: 13.947 ppbv
 RT: 3.94 min Scan# 358
 Delta R.T. -0.01 min
 Lab File: VL034380.D
 Acq: 19 Nov 2019 13:42

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion:101 Resp: 2346301
 Ion Ratio Lower Upper
 101 100
 103 68.5 54.5 81.7

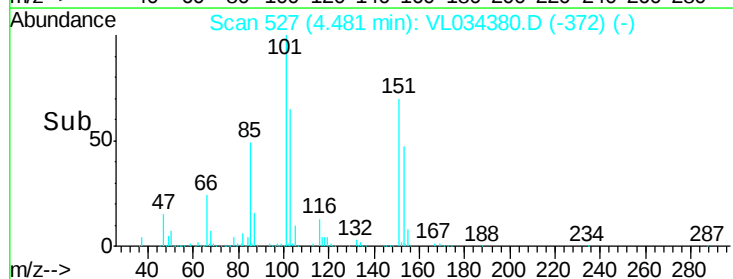
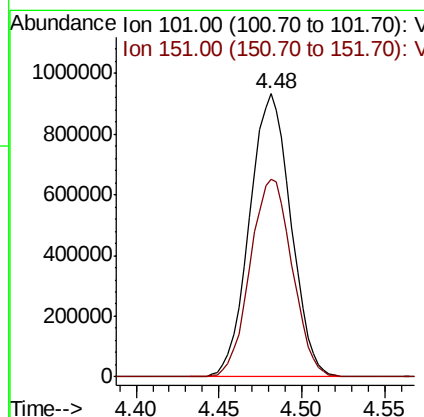
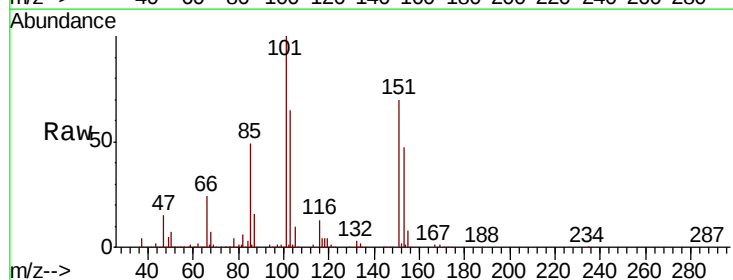
Manual Integrations
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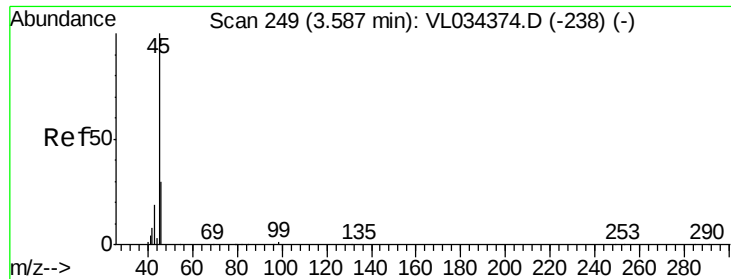
MMDadoda
 11/20/2019 3:53:36 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 14.660 ppbv
 RT: 4.48 min Scan# 527
 Delta R.T. -0.00 min
 Lab File: VL034380.D
 Acq: 19 Nov 2019 13:42

Tgt Ion:101 Resp: 1615724
 Ion Ratio Lower Upper
 101 100
 151 71.2 57.4 86.2





#13

Ethanol

Concen: 13.911 ppbv

RT: 3.59 min Scan# 249

Delta R.T. -0.01 min

Lab File: VL034380.D

Acq: 19 Nov 2019 13:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 45 Resp: 166336

Ion Ratio Lower Upper

45 100

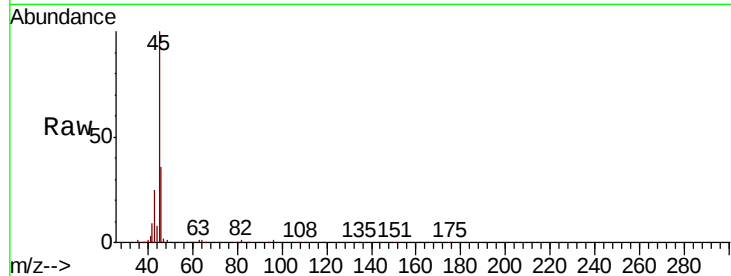
46 37.6 15.8 63.2

Manual Integrations

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Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0

3.59

100000

80000

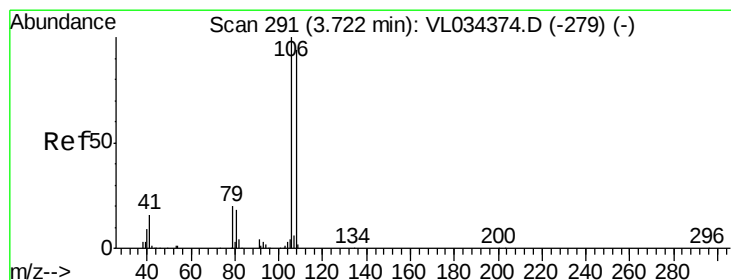
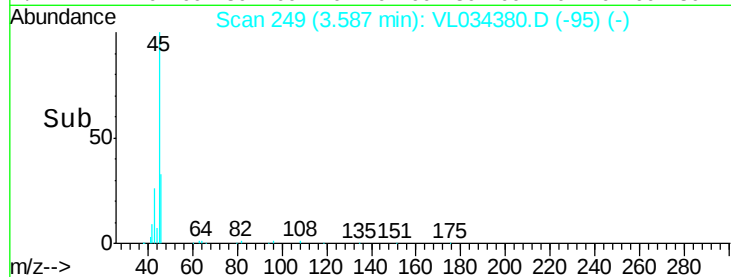
60000

40000

20000

0

Time-->



#14

Bromoethene

Concen: 15.886 ppbv

RT: 3.73 min Scan# 292

Delta R.T. -0.00 min

Lab File: VL034380.D

Acq: 19 Nov 2019 13:42

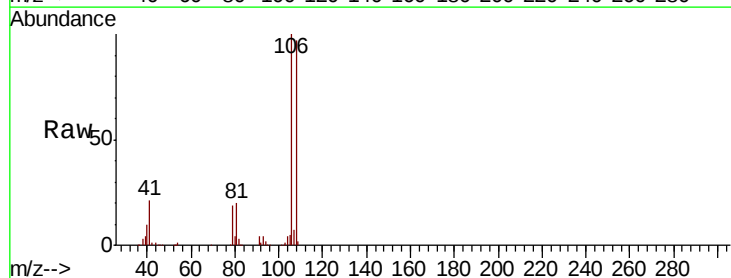
Tgt Ion: 108 Resp: 689340

Ion Ratio Lower Upper

108 100

106 105.2 84.8 127.2

79 21.1 17.0 25.4



Abundance Ion 108.00 (107.70 to 108.70): V

Ion 106.00 (105.70 to 106.70): V

Ion 79.00 (78.70 to 79.70): VL0

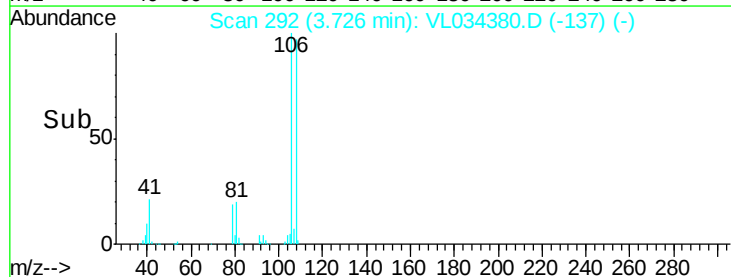
600000

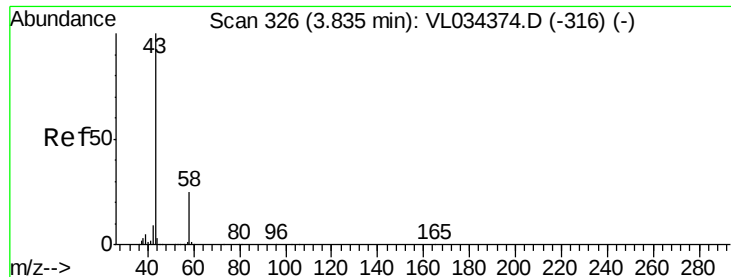
400000

200000

0

Time-->





#15

Acetone

Concen: 12.116 ppbv

RT: 3.84 min Scan# 327

Delta R.T. -0.00 min

Lab File: VL034380.D

Acq: 19 Nov 2019 13:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 43 Resp: 1781184

Ion Ratio Lower Upper

43 100

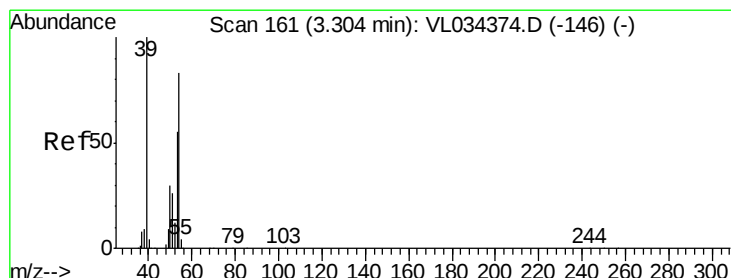
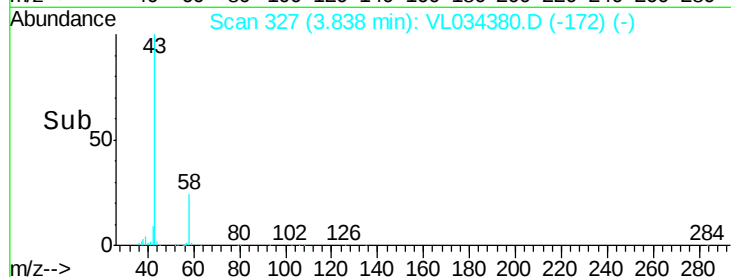
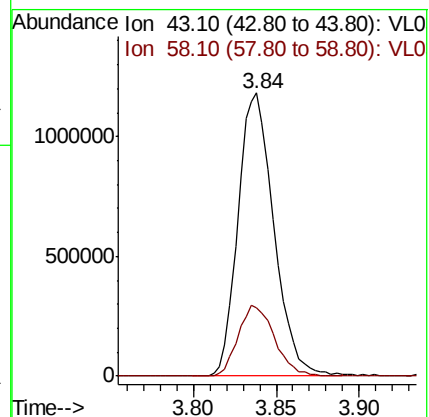
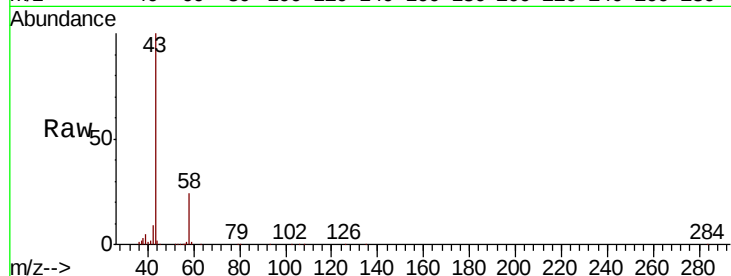
58 25.5 20.4 30.6

Manual Integrations

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#16

1,3-Butadiene

Concen: 14.874 ppbv

RT: 3.30 min Scan# 161

Delta R.T. -0.01 min

Lab File: VL034380.D

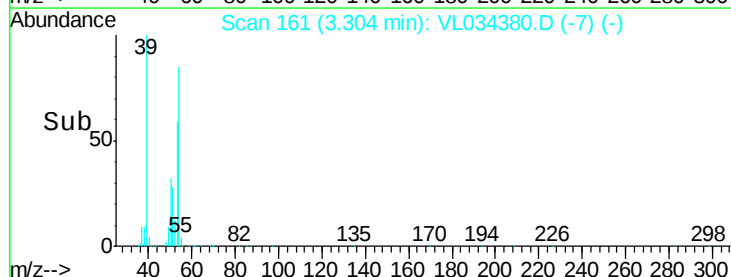
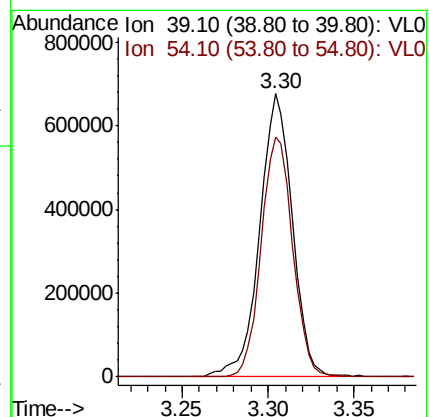
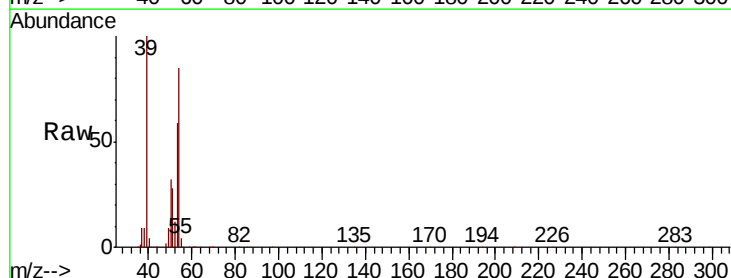
Acq: 19 Nov 2019 13:42

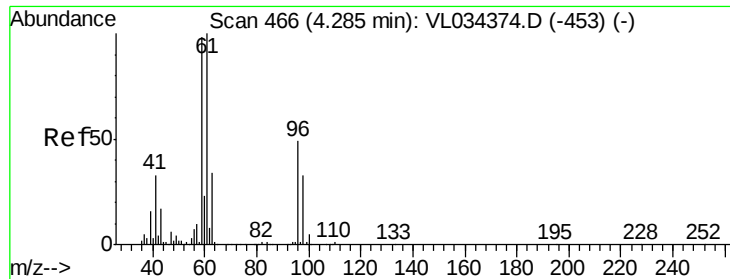
Tgt Ion: 39 Resp: 888470

Ion Ratio Lower Upper

39 100

54 82.2 63.9 95.9





#17

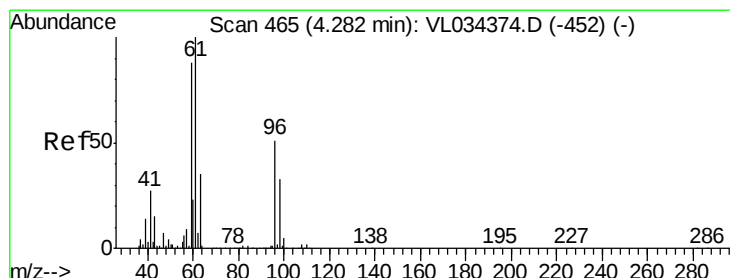
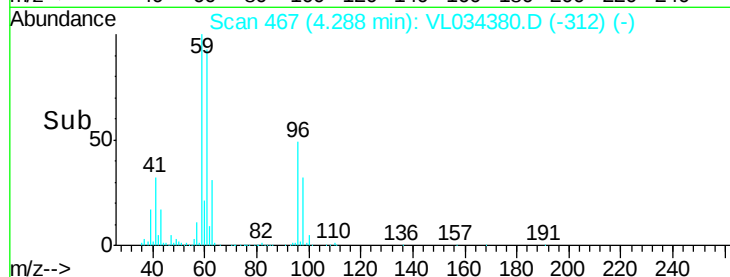
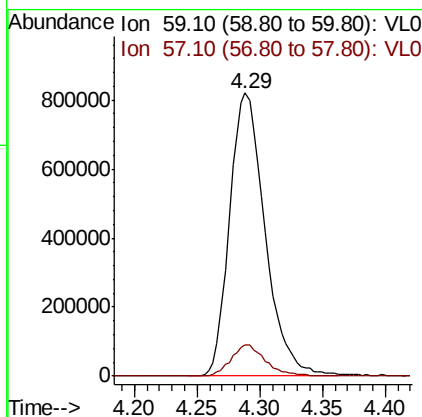
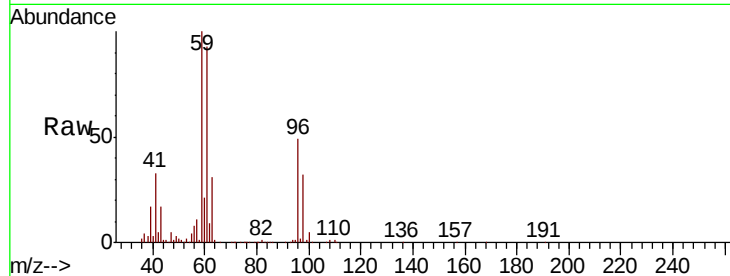
tert-Butyl alcohol
Concen: 17.179 ppbv
RT: 4.29 min Scan# 467
Delta R.T. -0.00 min
Lab File: VL034380.D
Acq: 19 Nov 2019 13:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 59 Resp: 1611892
Ion Ratio Lower Upper
59 100
57 10.7 8.8 13.2

Manual Integrations
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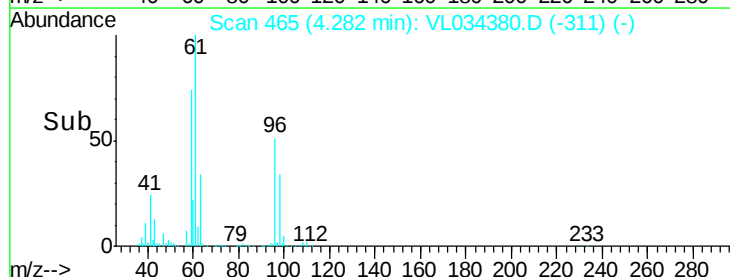
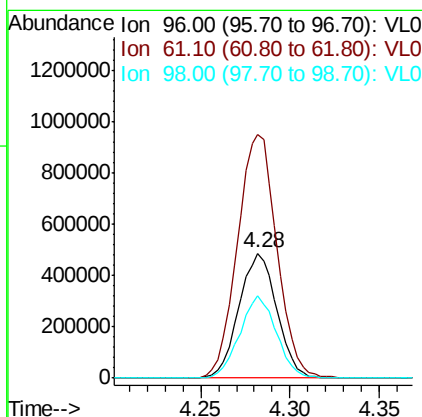
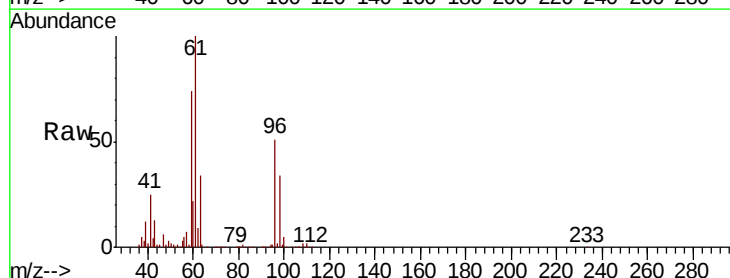
MMDadoda
11/20/2019 3:53:36 PM

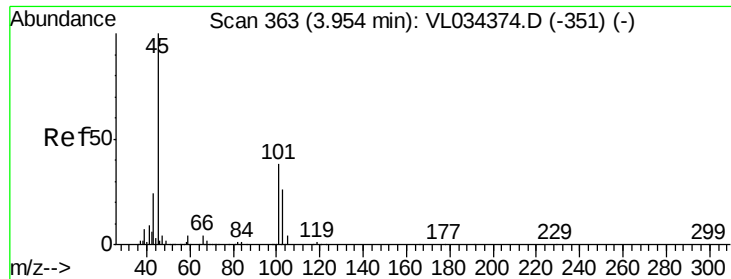


#18

1,1-Dichloroethene
Concen: 14.951 ppbv
RT: 4.28 min Scan# 465
Delta R.T. -0.01 min
Lab File: VL034380.D
Acq: 19 Nov 2019 13:42

Tgt Ion: 96 Resp: 721516
Ion Ratio Lower Upper
96 100
61 194.7 164.5 246.7
98 65.9 51.7 77.5





#19

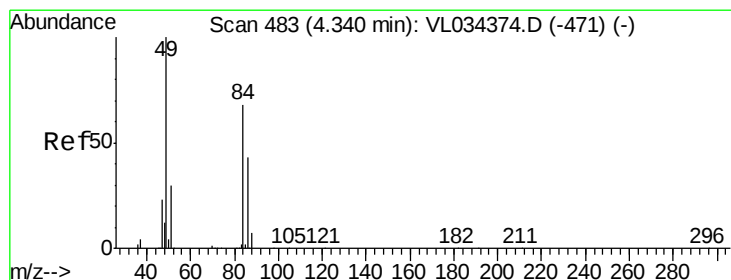
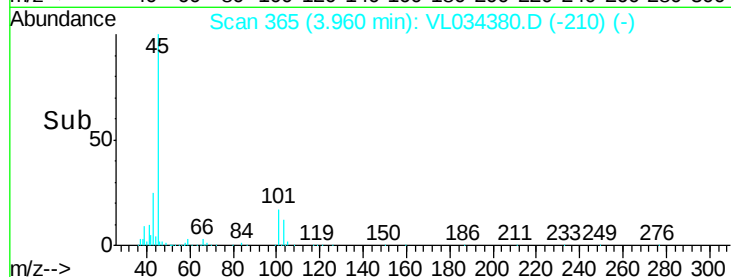
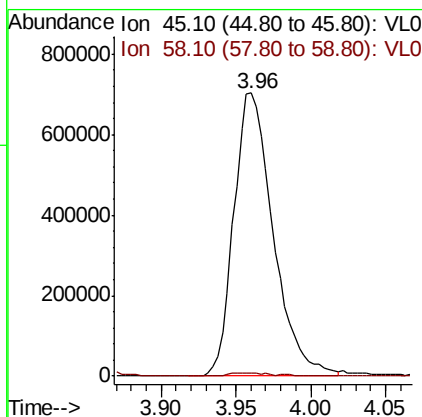
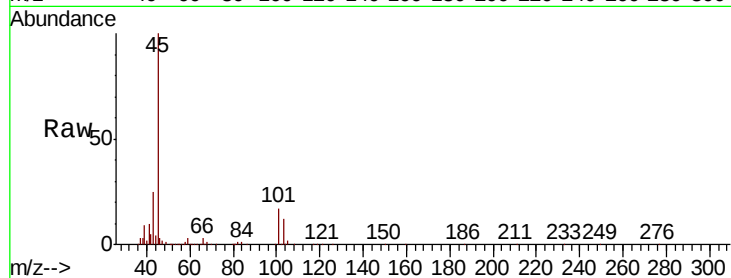
Isopropyl Alcohol
 Concen: 15.743 ppbv
 RT: 3.96 min Scan# 365
 Delta R.T. -0.00 min
 Lab File: VL034380.D
 Acq: 19 Nov 2019 13:42

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion: 45 Resp: 1291085
 Ion Ratio Lower Upper
 45 100
 58 1.6 1.4 2.2

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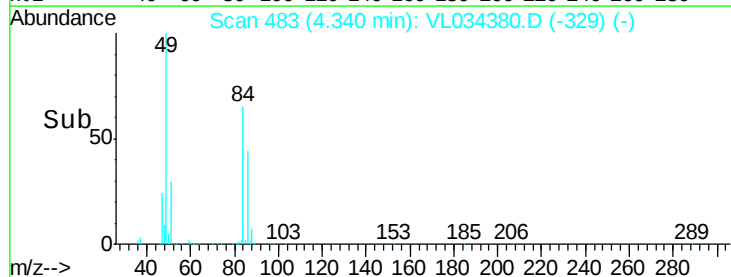
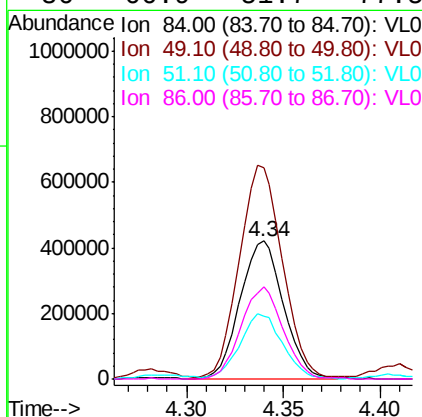
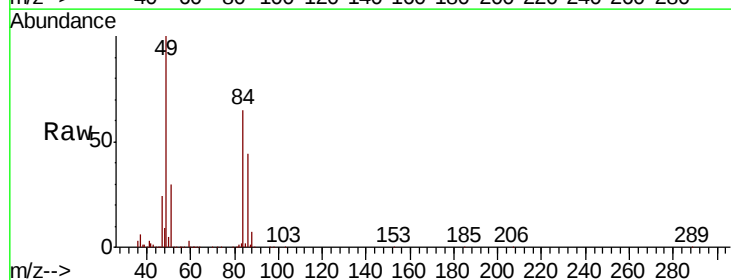
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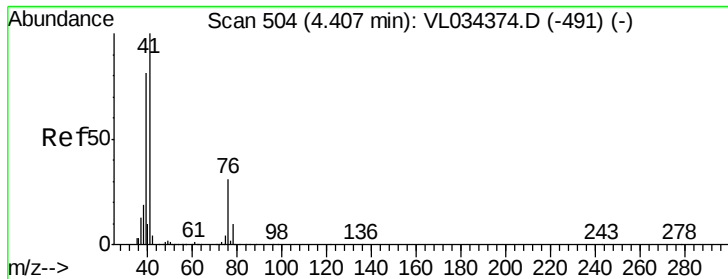


#20

Methylene Chloride
 Concen: 12.287 ppbv
 RT: 4.34 min Scan# 483
 Delta R.T. -0.01 min
 Lab File: VL034380.D
 Acq: 19 Nov 2019 13:42

Tgt Ion: 84 Resp: 653012
 Ion Ratio Lower Upper
 84 100
 49 152.4 118.5 177.7
 51 45.6 38.8 58.2
 86 66.9 51.7 77.5





#21

Allvl Chloride

Concen: 15.591 ppbv

RT: 4.41 min Scan# 504

Delta R.T. -0.01 min

Lab File: VL034380.D

Acq: 19 Nov 2019 13:42

Instrument :

MSVOA_L

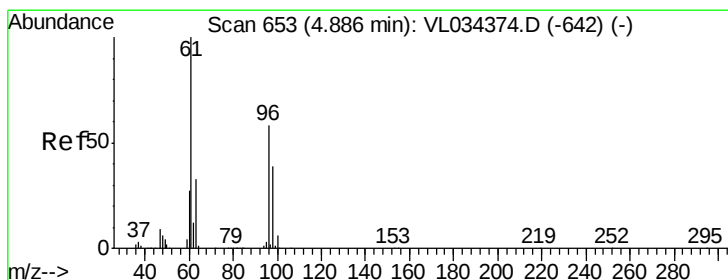
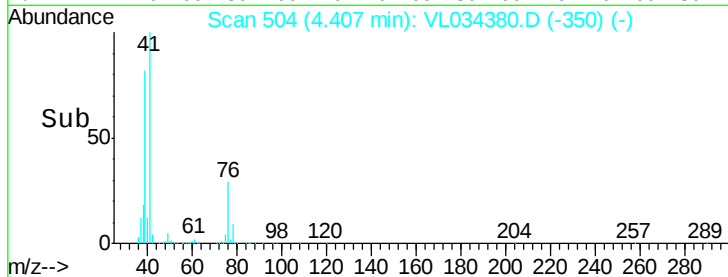
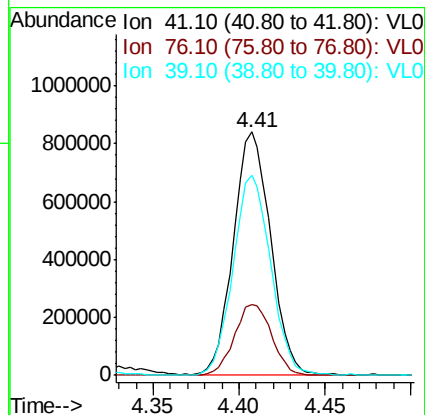
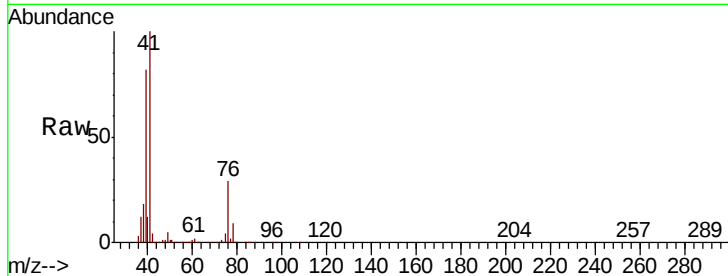
ClientSampleId :

VSTDIC015

Tot Ion:	41	Resp:	1267147
Ion	Ratio	Lower	Upper
41	100		
76	29.4	22.8	34.2
39	83.3	66.0	99.0

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#22

trans-1,2-Dichloroethene

Concen: 15.718 ppbv

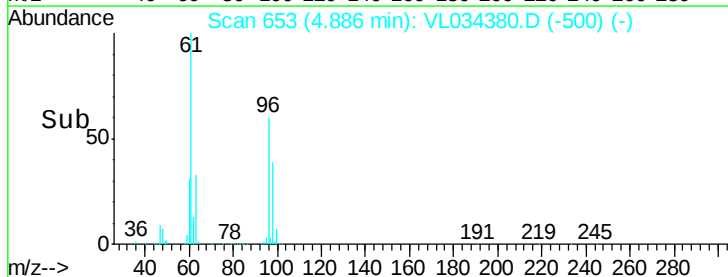
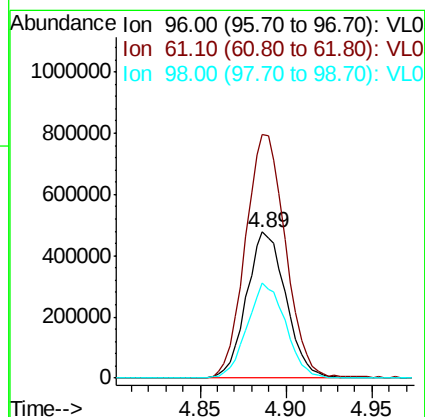
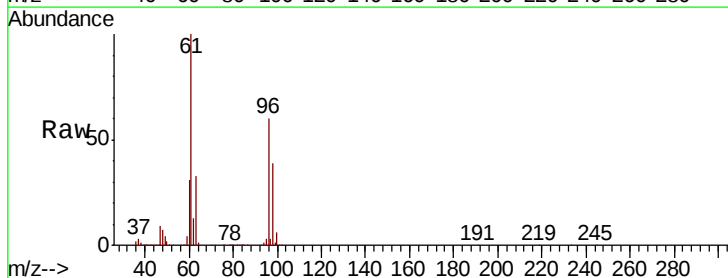
RT: 4.89 min Scan# 653

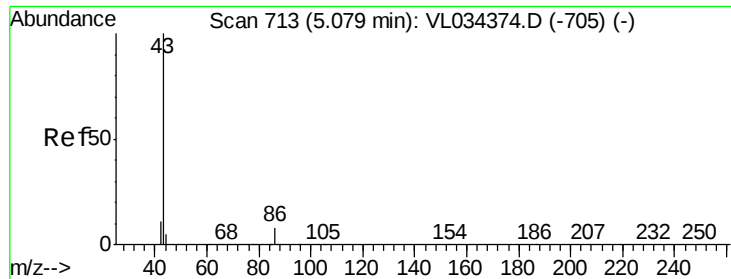
Delta R.T. -0.01 min

Lab File: VL034380.D

Acq: 19 Nov 2019 13:42

Tgt Ion:	96	Resp:	756578
Ion	Ratio	Lower	Upper
96	100		
61	166.7	133.8	200.6
98	64.8	49.4	74.0





#23

Vinyl Acetate

Concen: 14.910 ppbv

RT: 5.08 min Scan# 714

Delta R.T. -0.00 min

Lab File: VL034380.D

Acq: 19 Nov 2019 13:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 43 Resp: 2737406

Ion Ratio Lower Upper

43 100

86 7.4 5.0 7.4#

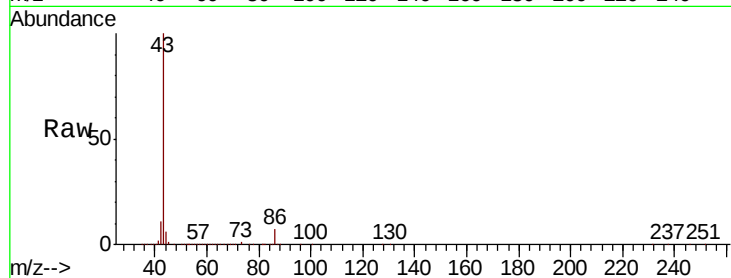
42 10.9 8.6 13.0

44 5.6 4.8 7.2

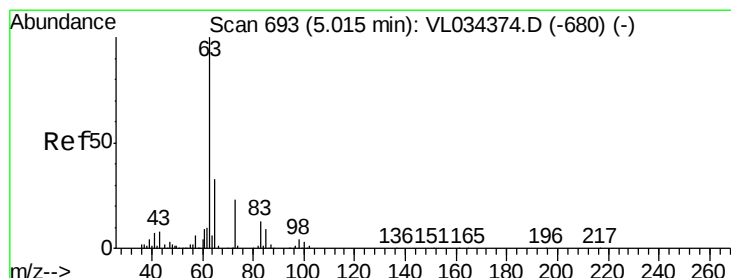
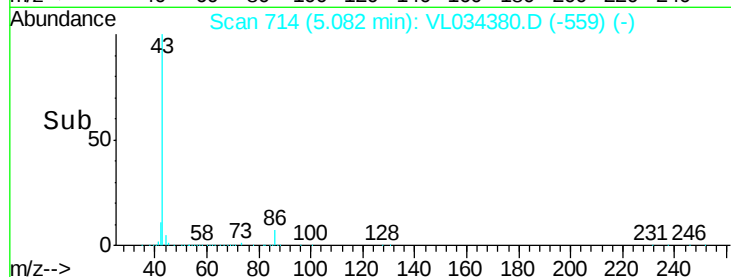
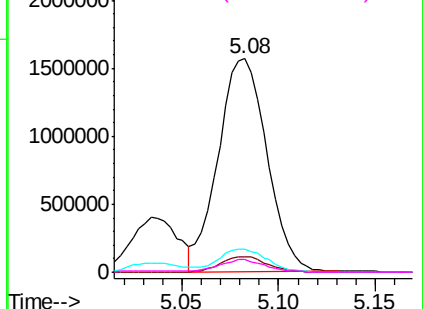
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Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 86.10 (85.80 to 86.80): VL0
Ion 42.10 (41.80 to 42.80): VL0
Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 14.339 ppbv

RT: 5.02 min Scan# 694

Delta R.T. -0.01 min

Lab File: VL034380.D

Acq: 19 Nov 2019 13:42

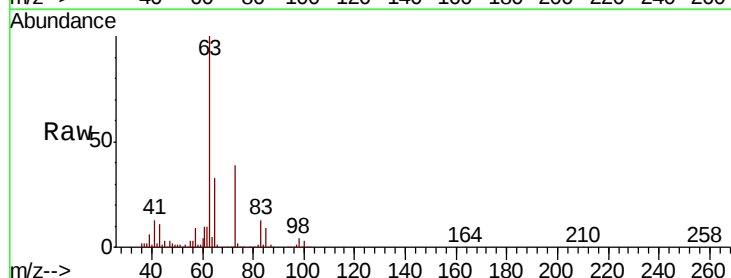
Tgt Ion: 63 Resp: 1953773

Ion Ratio Lower Upper

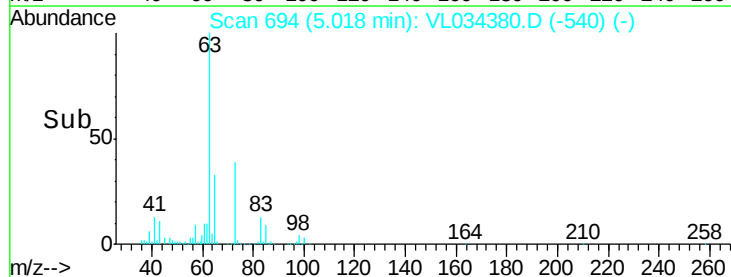
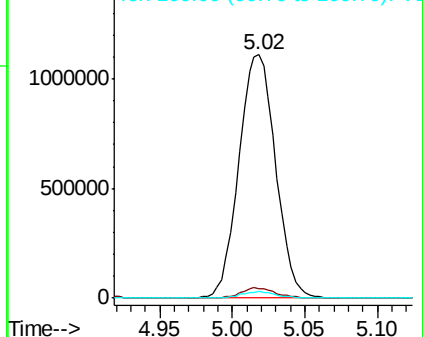
63 100

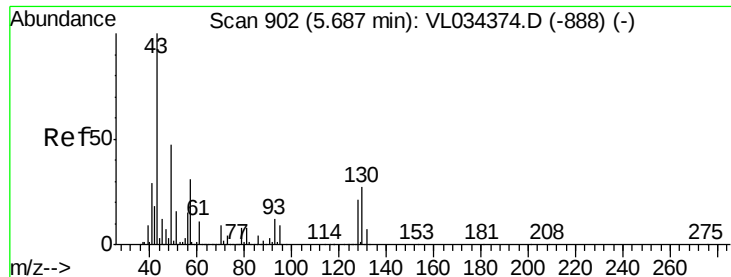
98 3.8 2.0 6.0

100 2.6 1.1 3.5



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





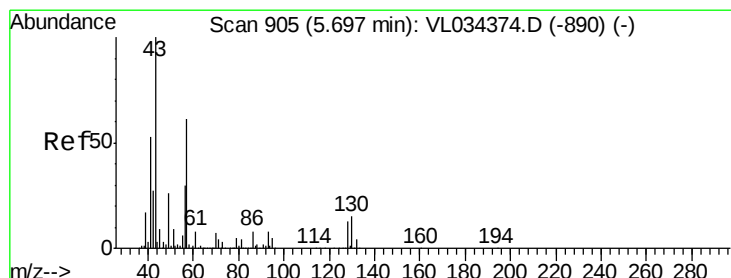
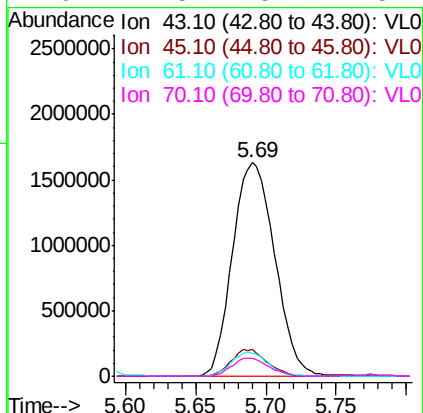
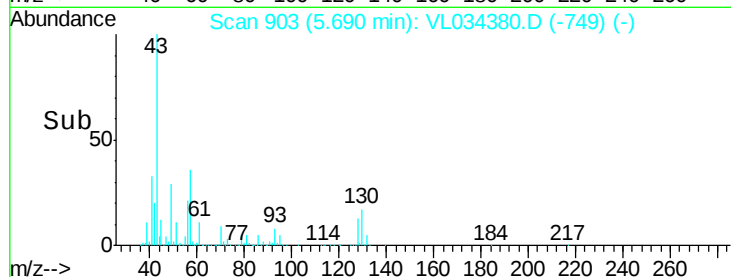
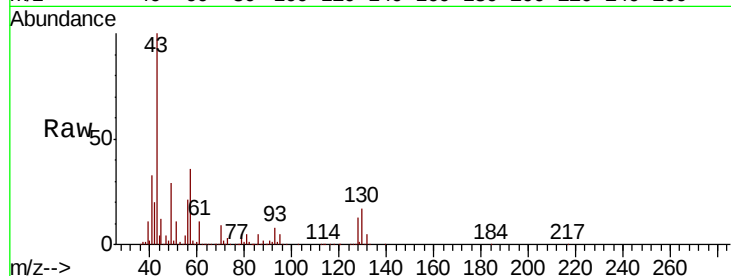
#25
Ethyl Acetate
Concen: 13.784 ppbv
RT: 5.69 min Scan# 903
Delta R.T. -0.01 min
Lab File: VL034380.D
Acq: 19 Nov 2019 13:42

Instrument :
MSVOA_L
ClientSampleID :
VSTDIC015

Tot Ion	Ion	Ratio	Lower	Upper
43	100			
45	10.8	8.3	12.5	
61	9.9	7.7	11.5	
70	7.5	5.4	8.2	

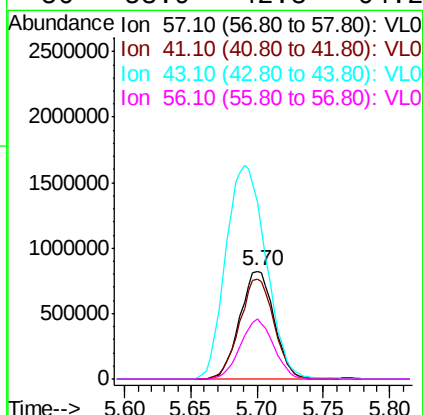
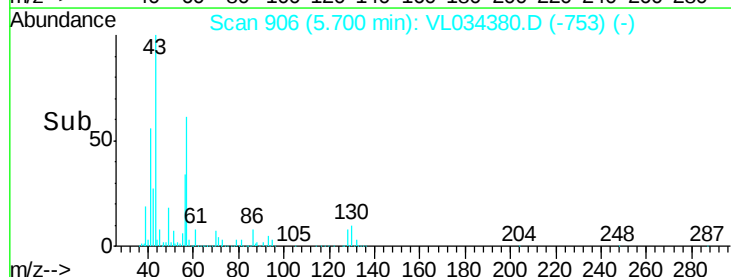
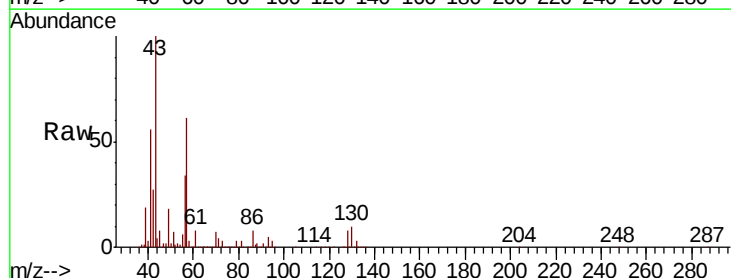
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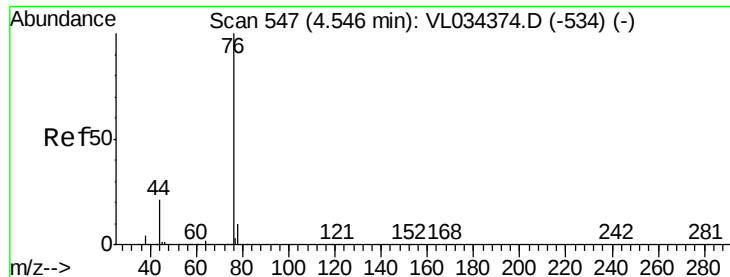
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#26
Hexane
Concen: 14.020 ppbv
RT: 5.70 min Scan# 906
Delta R.T. -0.01 min
Lab File: VL034380.D
Acq: 19 Nov 2019 13:42

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	94.0	76.5	114.7	
43	231.4	188.5	282.7	
56	53.9	42.8	64.2	





#27

Carbon Disulfide

Concen: 17.155 ppbv

RT: 4.55 min Scan# 547

Delta R.T. -0.01 min

Lab File: VL034380.D

Acq: 19 Nov 2019 13:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 76 Resp: 1884126

Ion Ratio Lower Upper

76 100

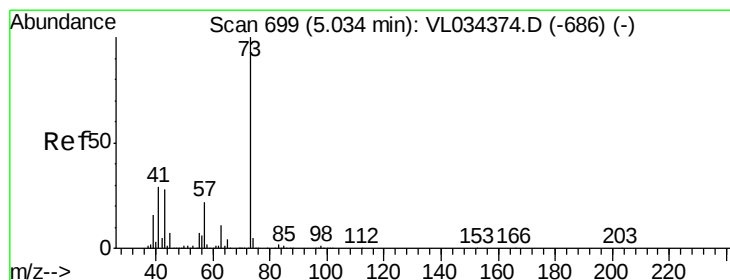
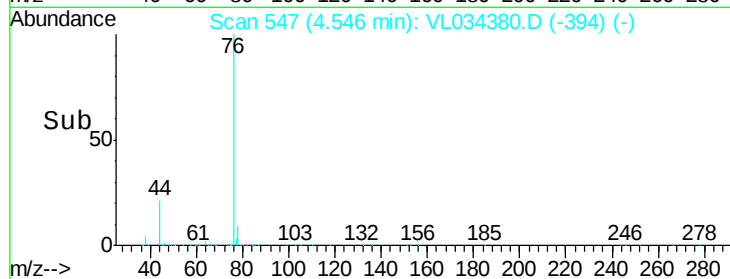
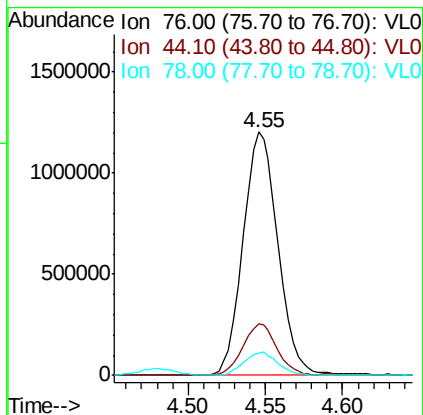
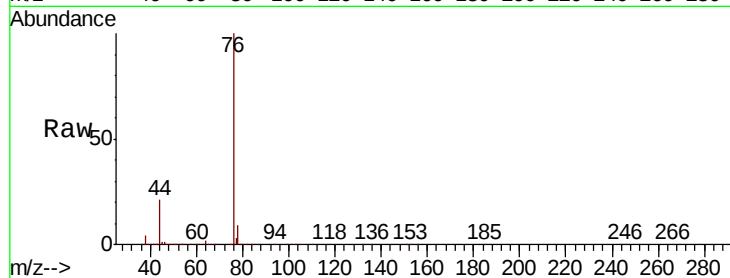
44 20.5 17.3 25.9

78 9.3 7.8 11.6

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#28

Methyl tert-Butyl Ether

Concen: 15.557 ppbv

RT: 5.03 min Scan# 699

Delta R.T. -0.01 min

Lab File: VL034380.D

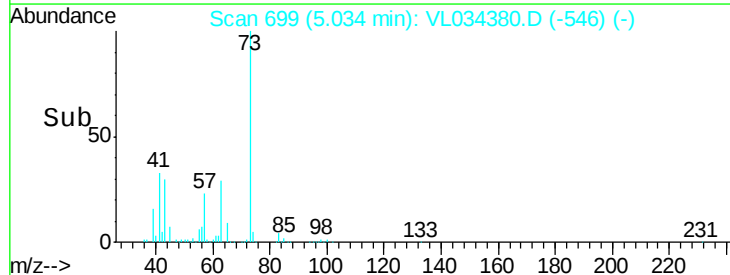
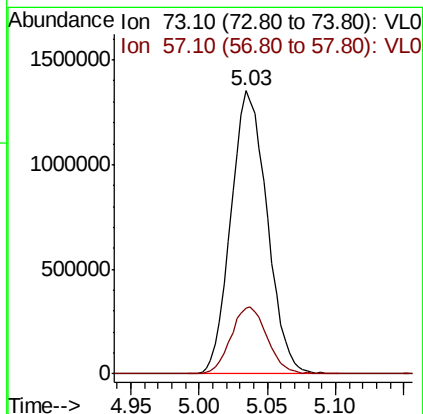
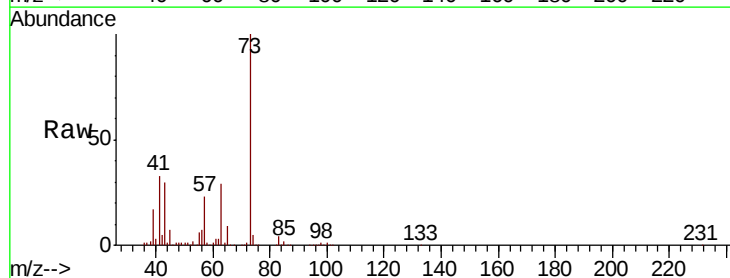
Acq: 19 Nov 2019 13:42

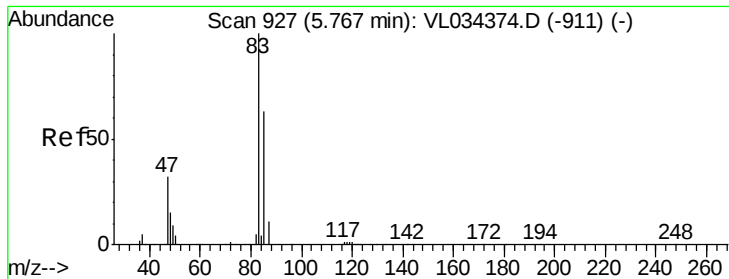
Tgt Ion: 73 Resp: 2490813

Ion Ratio Lower Upper

73 100

57 23.8 19.2 28.8





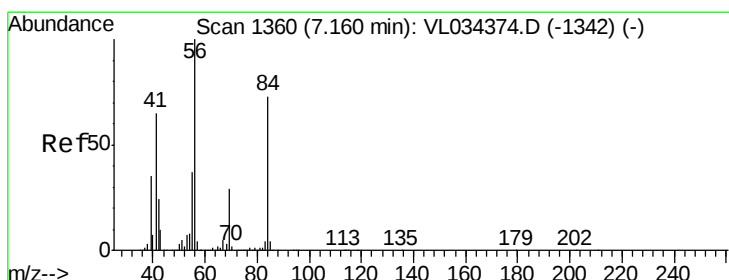
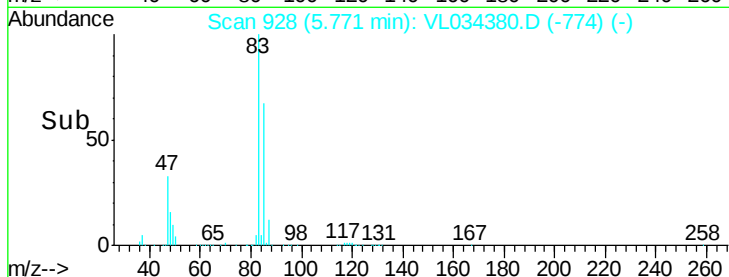
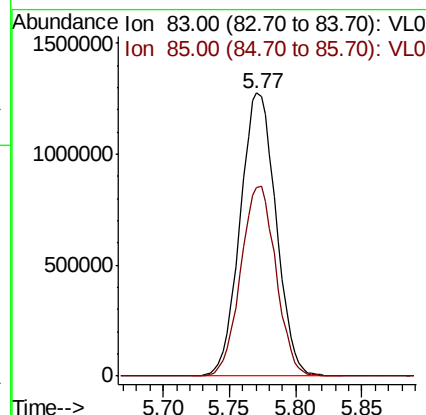
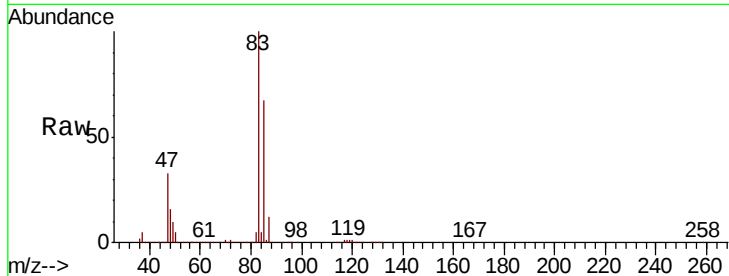
#29
Chloroform
Concen: 14.357 ppbv
RT: 5.77 min Scan# 928
Delta R.T. -0.01 min
Lab File: VL034380.D
Acq: 19 Nov 2019 13:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 83 Resp: 2402520
Ion Ratio Lower Upper
83 100
85 66.5 50.5 75.7

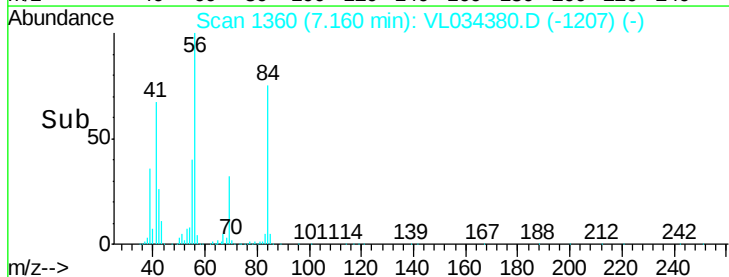
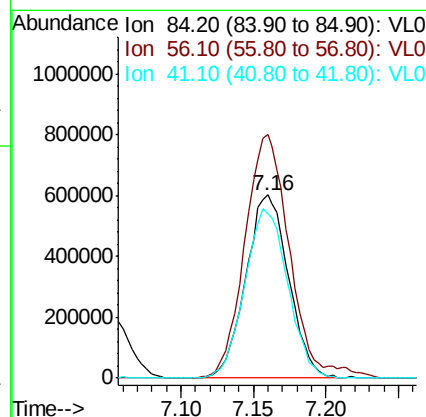
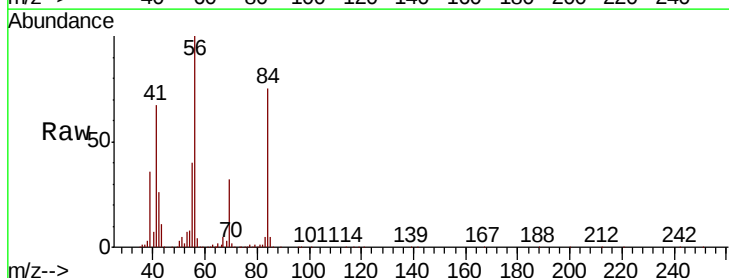
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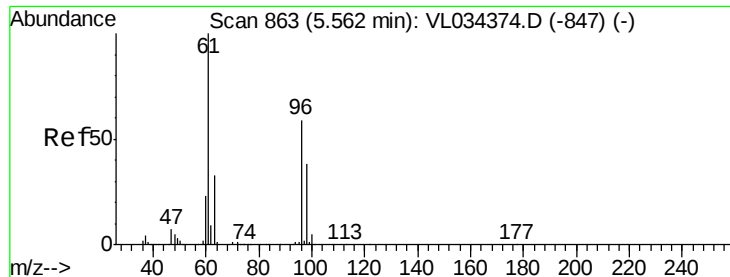
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#30
Cyclohexane
Concen: 15.934 ppbv
RT: 7.16 min Scan# 1360
Delta R.T. -0.01 min
Lab File: VL034380.D
Acq: 19 Nov 2019 13:42

Tgt Ion: 84 Resp: 1239707
Ion Ratio Lower Upper
84 100
56 139.0 119.4 179.0
41 93.2 78.7 118.1





#31

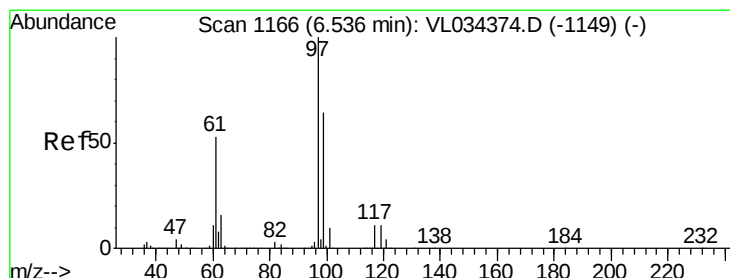
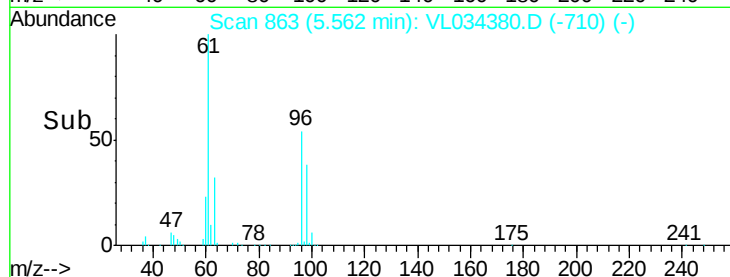
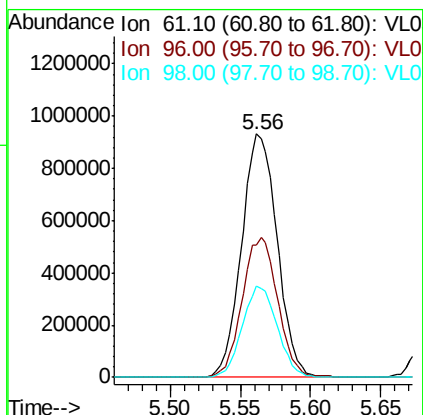
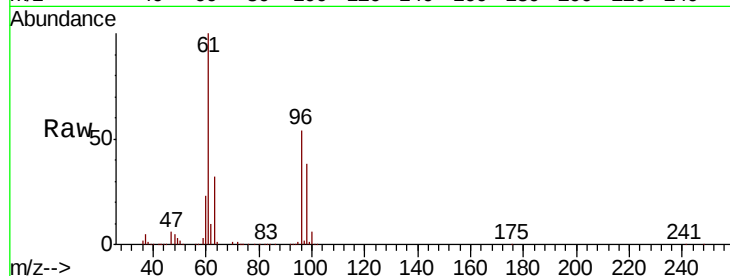
cis-1,2-Dichloroethene
 Concen: 15.386 ppbv
 RT: 5.56 min Scan# 863
 Delta R.T. -0.01 min
 Lab File: VL034380.D
 Acq: 19 Nov 2019 13:42

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
61	100		
96	54.1	47.5	71.3
98	37.5	28.8	43.2

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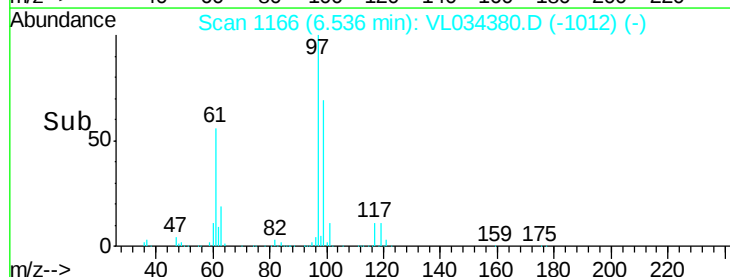
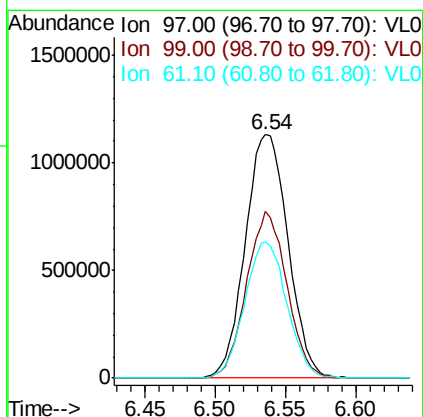
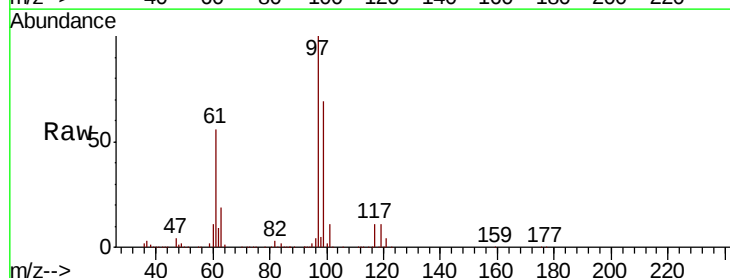
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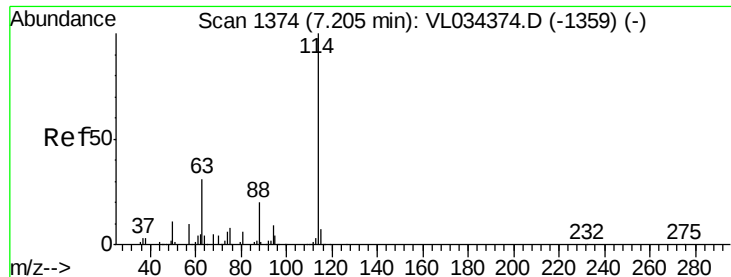


#32

1,1,1-Trichloroethane
 Concen: 14.749 ppbv
 RT: 6.54 min Scan# 1166
 Delta R.T. -0.01 min
 Lab File: VL034380.D
 Acq: 19 Nov 2019 13:42

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.0	52.6	78.8
61	55.2	44.5	66.7





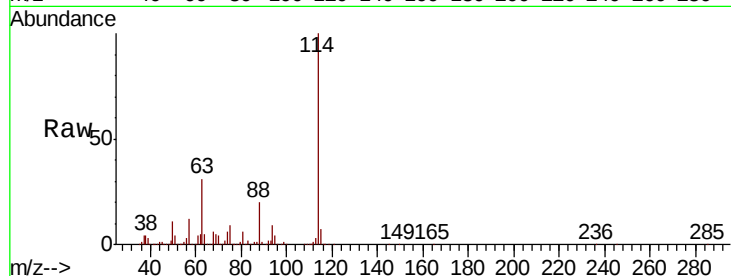
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.21 min Scan# 1375
 Delta R.T. -0.01 min
 Lab File: VL034380.D
 Acq: 19 Nov 2019 13:42

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
114	100		
63	30.5	25.2	37.8
88	19.5	16.0	24.0

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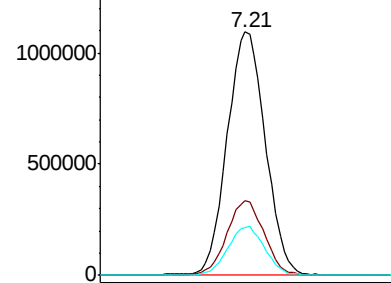
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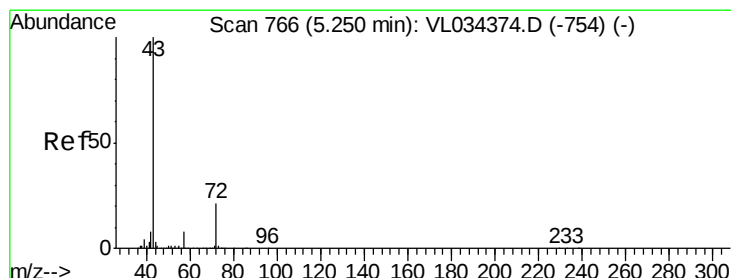
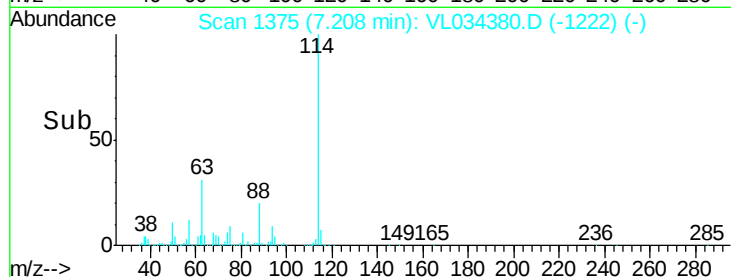
Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0

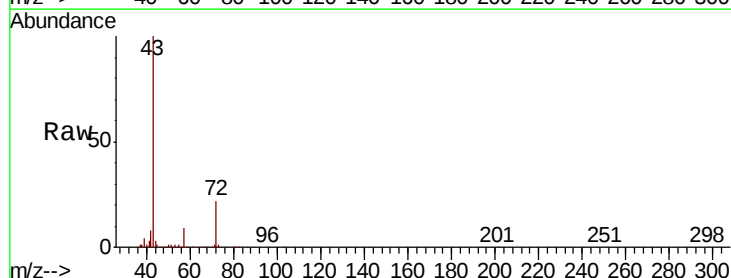


Time-->



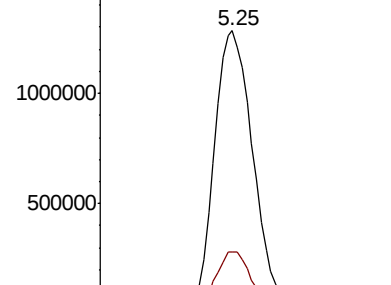
#34
 2-Butanone
 Concen: 13.473 ppbv
 RT: 5.25 min Scan# 767
 Delta R.T. -0.01 min
 Lab File: VL034380.D
 Acq: 19 Nov 2019 13:42

Tgt Ion	Ratio	Lower	Upper
43	100		
72	21.2	16.3	24.5

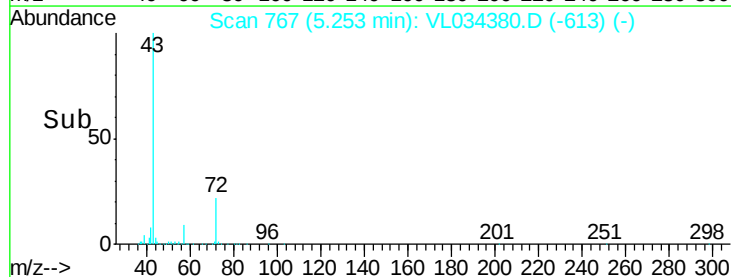


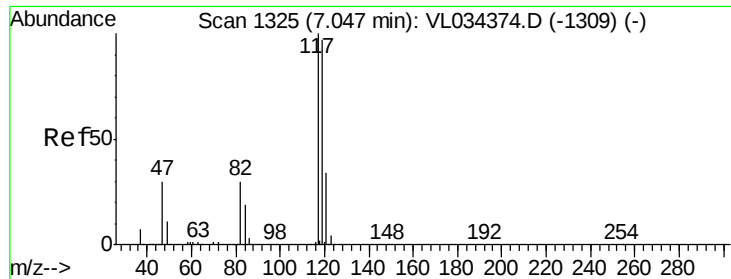
Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0



Time-->





#35

Carbon Tetrachloride

Concen: 13.399 ppbv

RT: 7.05 min Scan# 1326

Delta R.T. -0.01 min

Lab File: VL034380.D

Acq: 19 Nov 2019 13:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:117 Resp: 2481446

Ion Ratio Lower Upper

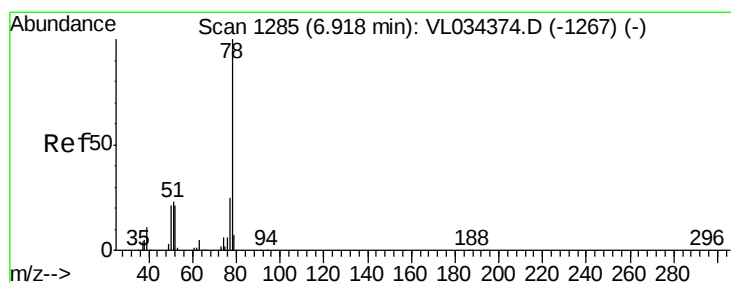
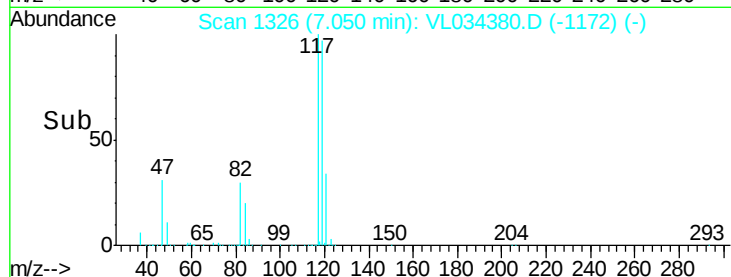
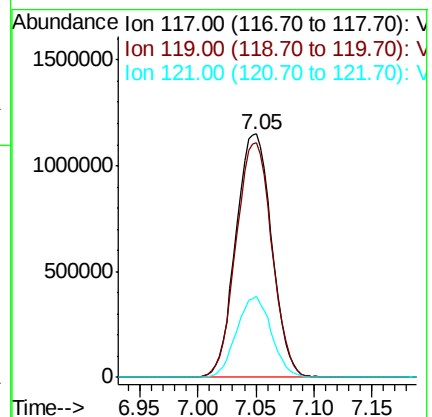
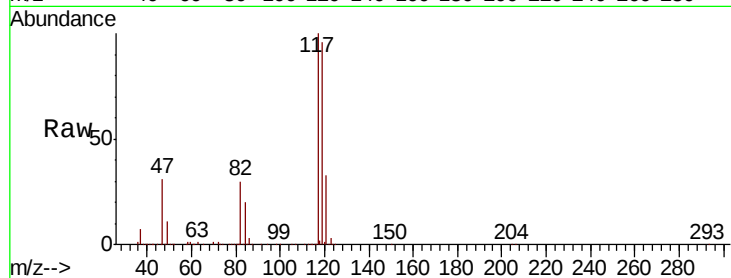
117 100

119 96.3 77.3 115.9

121 33.2 25.5 38.3

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#36

Benzene

Concen: 14.091 ppbv

RT: 6.92 min Scan# 1286

Delta R.T. -0.01 min

Lab File: VL034380.D

Acq: 19 Nov 2019 13:42

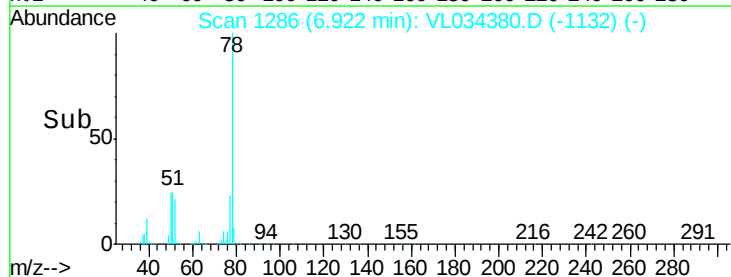
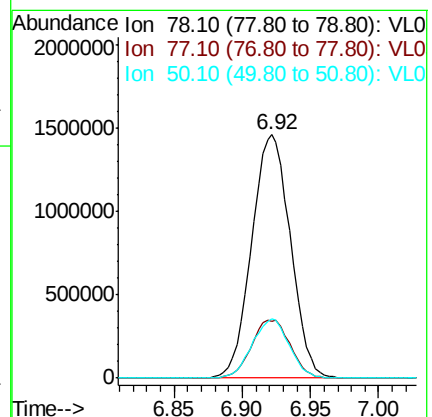
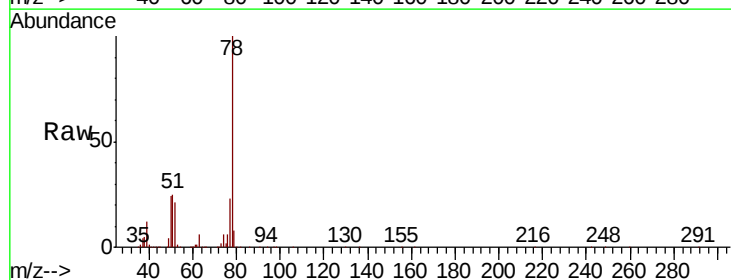
Tgt Ion: 78 Resp: 2874539

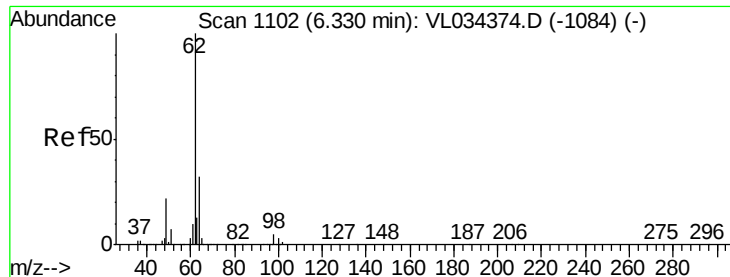
Ion Ratio Lower Upper

78 100

77 23.4 19.0 28.4

50 24.4 18.6 27.8





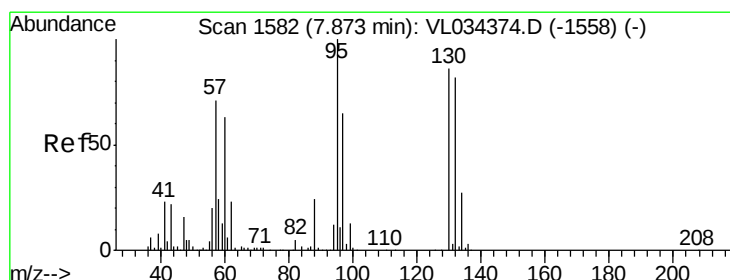
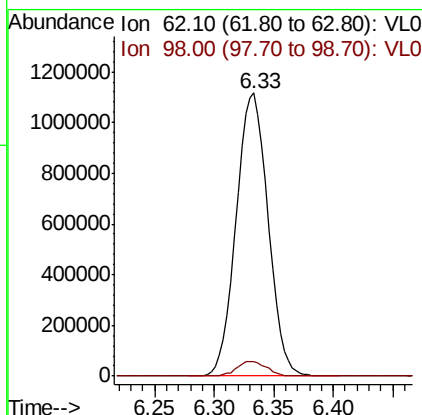
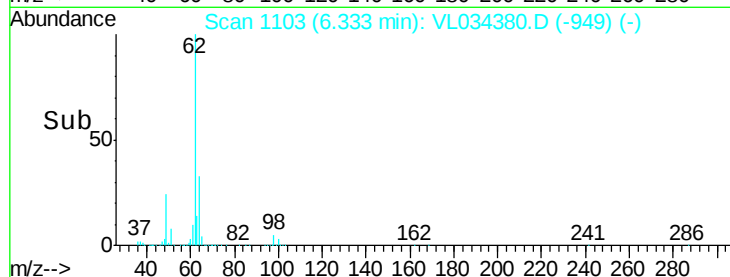
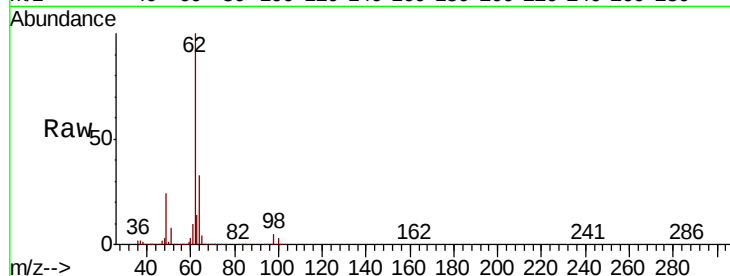
#37
 1,2-Dichloroethane
 Concen: 13.673 ppbv
 RT: 6.33 min Scan# 1103
 Delta R.T. -0.01 min
 Lab File: VL034380.D
 Acq: 19 Nov 2019 13:42

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion: 62 Resp: 2078809
 Ion Ratio Lower Upper
 62 100
 98 5.0 3.8 5.6

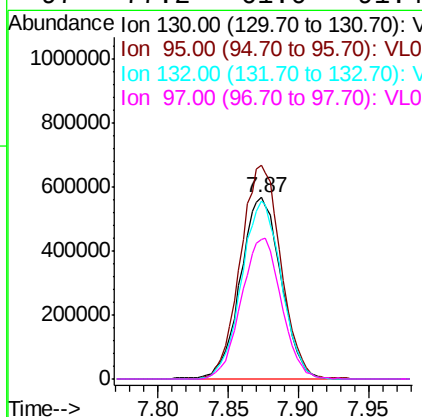
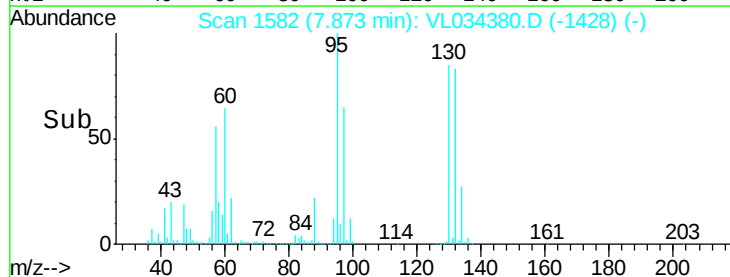
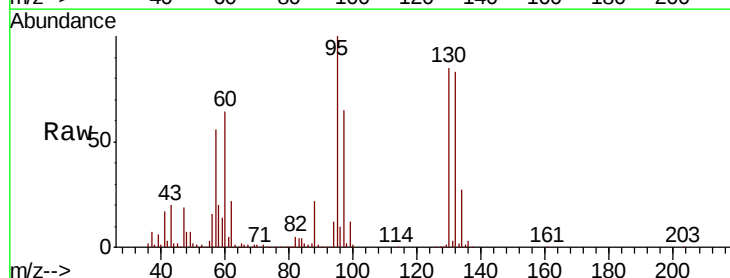
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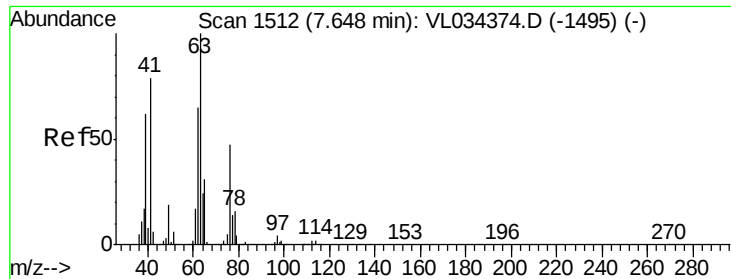
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#38
 Trichloroethene
 Concen: 13.865 ppbv
 RT: 7.87 min Scan# 1582
 Delta R.T. -0.01 min
 Lab File: VL034380.D
 Acq: 19 Nov 2019 13:42

Tgt Ion: 130 Resp: 1135029
 Ion Ratio Lower Upper
 130 100
 95 118.1 88.6 132.8
 132 98.4 71.2 106.8
 97 77.2 61.0 91.4





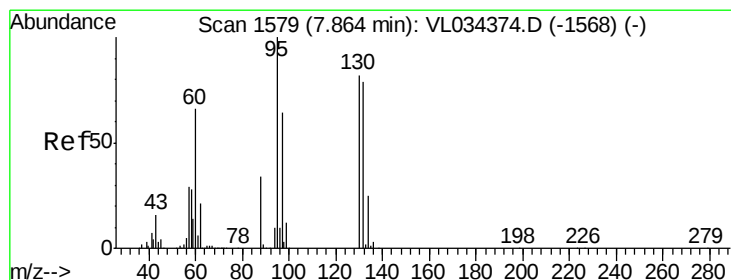
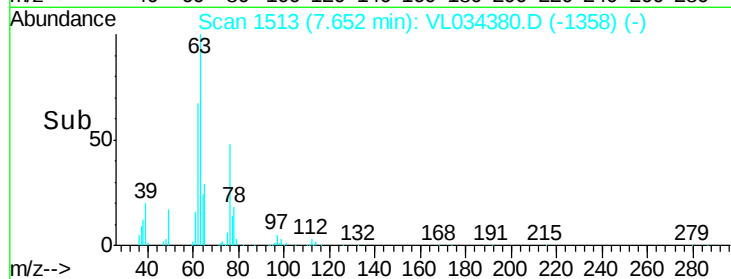
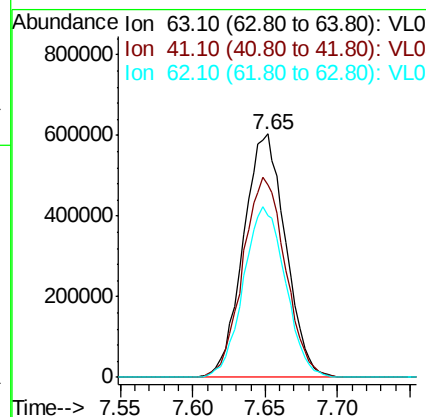
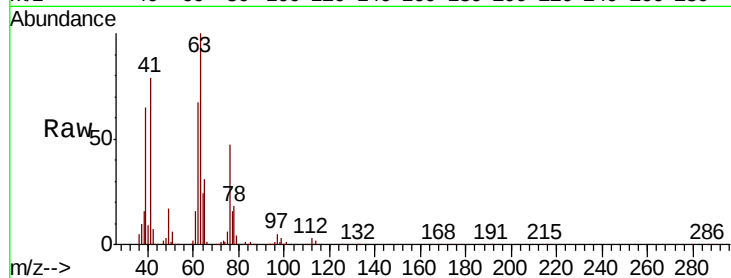
#39
 1,2-Dichloropropane
 Concen: 13.841 ppbv
 RT: 7.65 min Scan# 1513
 Delta R.T. -0.00 min
 Lab File: VL034380.D
 Acq: 19 Nov 2019 13:42

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
63	100		
41	79.1	65.6	98.4
62	66.5	53.0	79.6

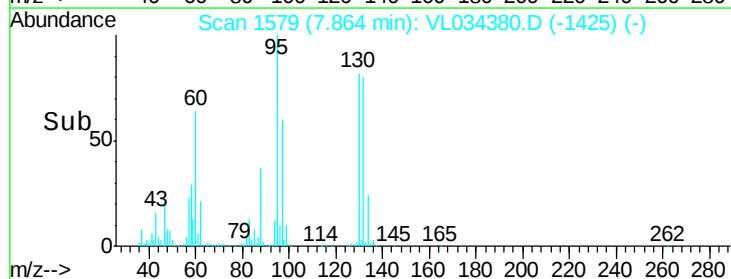
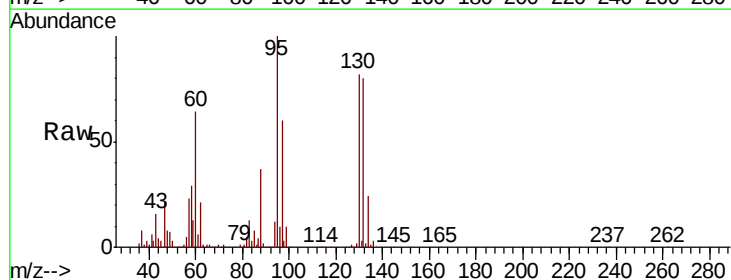
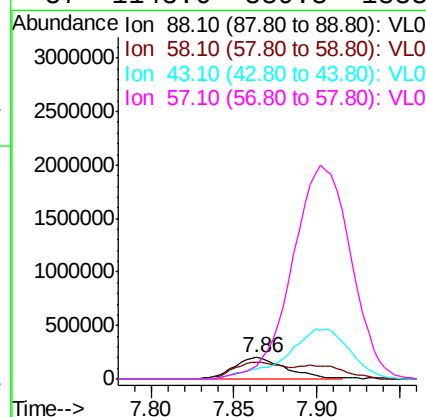
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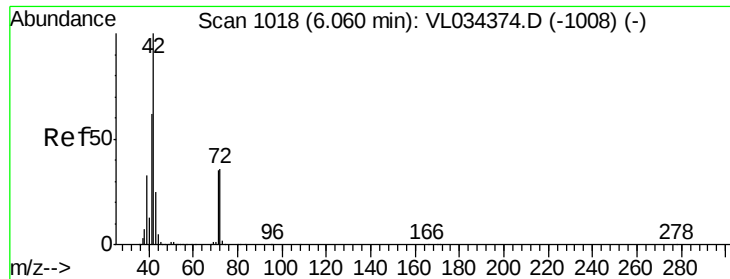
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#40
 1,4-Dioxane
 Concen: 13.937 ppbv
 RT: 7.86 min Scan# 1579
 Delta R.T. -0.01 min
 Lab File: VL034380.D
 Acq: 19 Nov 2019 13:42

Tgt Ion	Ratio	Lower	Upper
88	100		
58	138.7	110.3	165.5
43	294.1	228.1	342.1
57	1148.6	889.3	1333.9





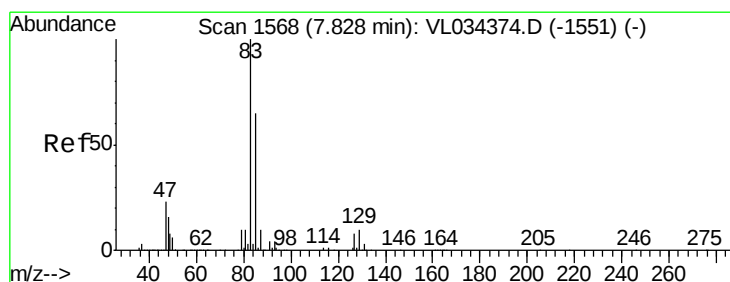
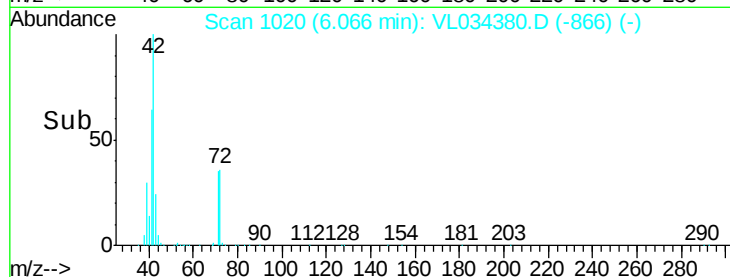
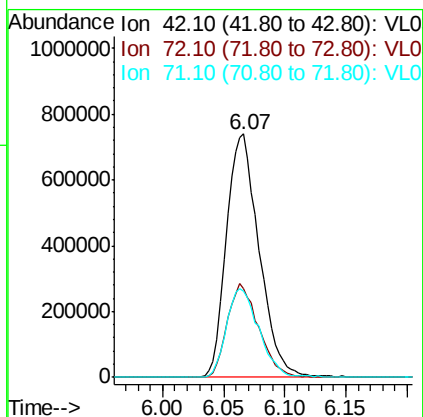
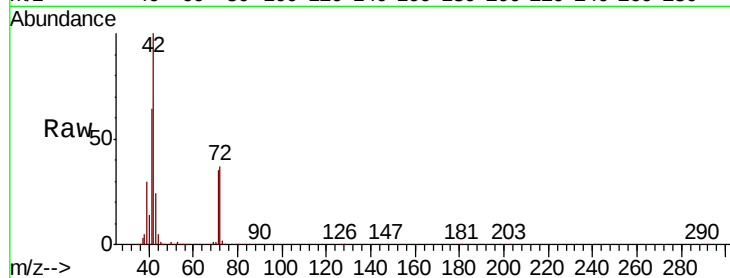
#41
Tetrahydrofuran
Concen: 14.364 ppbv
RT: 6.07 min Scan# 1020
Delta R.T. -0.01 min
Lab File: VL034380.D
Acq: 19 Nov 2019 13:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
42	100		
72	37.0	28.0	42.0
71	36.4	27.3	40.9

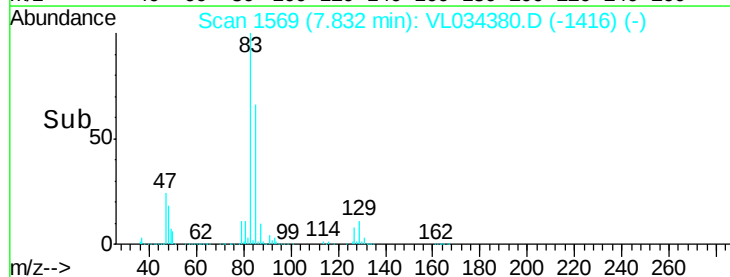
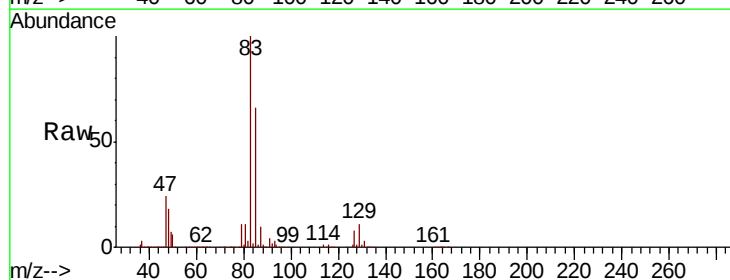
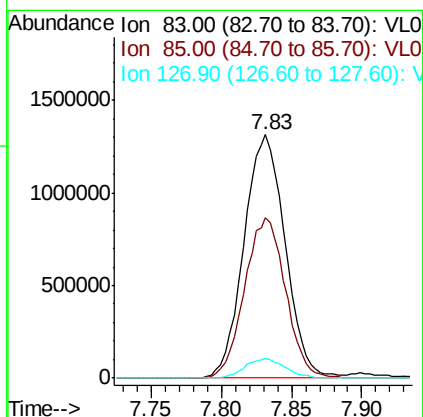
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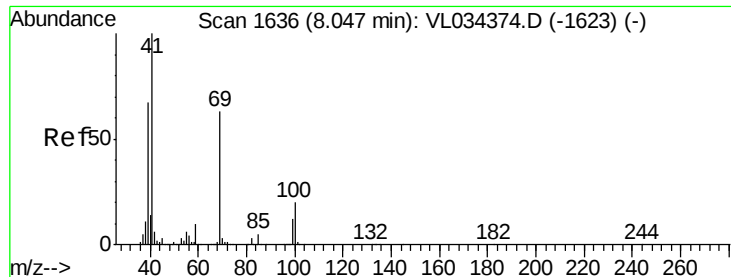
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#42
Bromodichloromethane
Concen: 14.406 ppbv
RT: 7.83 min Scan# 1569
Delta R.T. -0.01 min
Lab File: VL034380.D
Acq: 19 Nov 2019 13:42

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.9	51.8	77.6
127	8.0	7.0	10.6





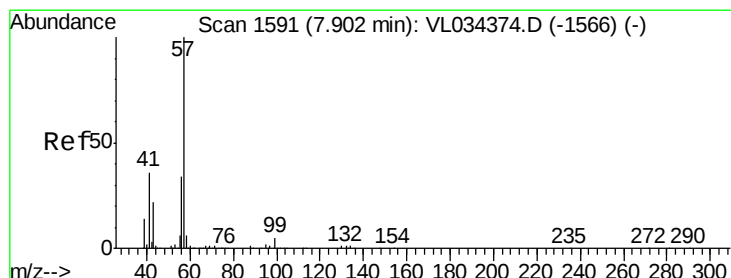
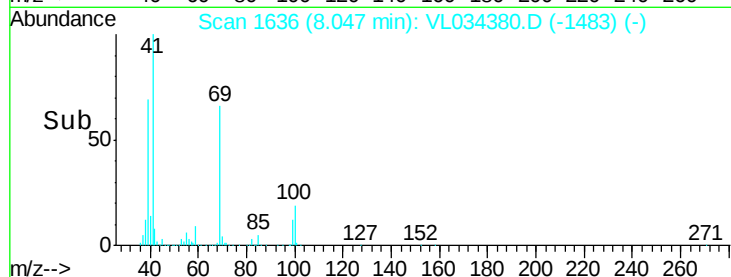
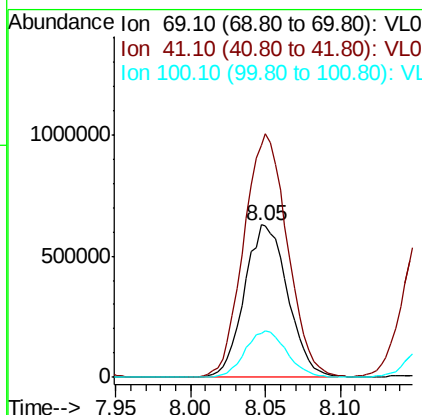
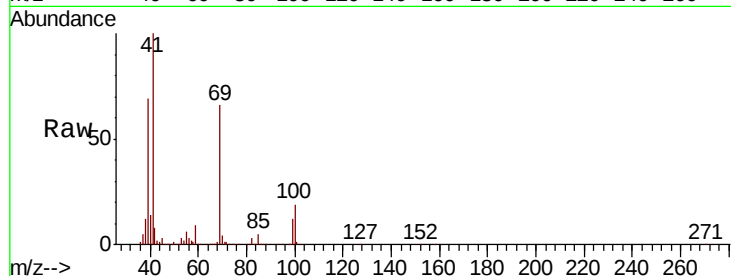
#43
Methyl Methacrylate
Concen: 15.065 ppbv
RT: 8.05 min Scan# 1636
Delta R.T. -0.01 min
Lab File: VL034380.D
Acq: 19 Nov 2019 13:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 69 Resp: 1271018
Ion Ratio Lower Upper
69 100
41 160.2 132.1 198.1
100 29.7 23.2 34.8

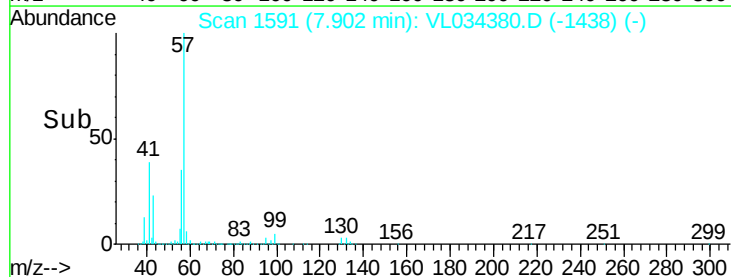
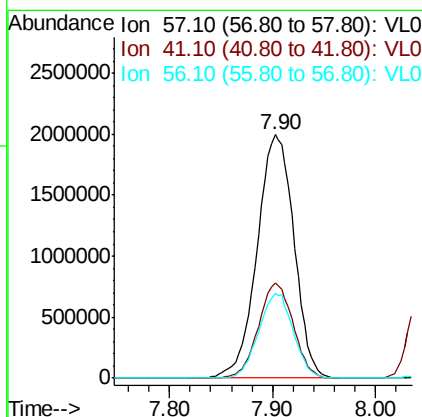
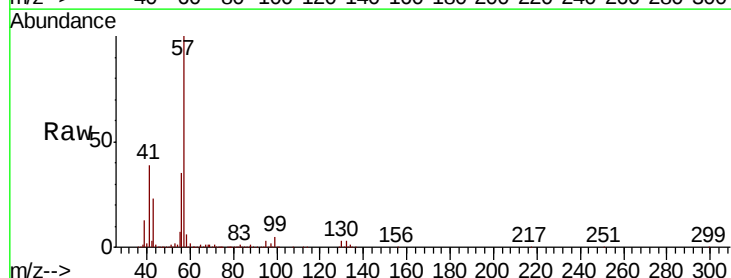
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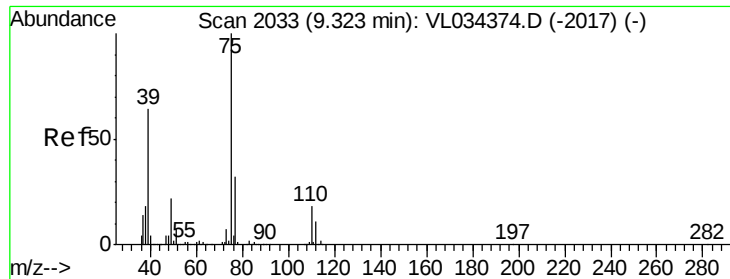
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#44
2,2,4-Trimethylpentane
Concen: 13.065 ppbv
RT: 7.90 min Scan# 1591
Delta R.T. -0.01 min
Lab File: VL034380.D
Acq: 19 Nov 2019 13:42

Tgt Ion: 57 Resp: 4933047
Ion Ratio Lower Upper
57 100
41 36.9 29.3 43.9
56 32.7 25.3 37.9





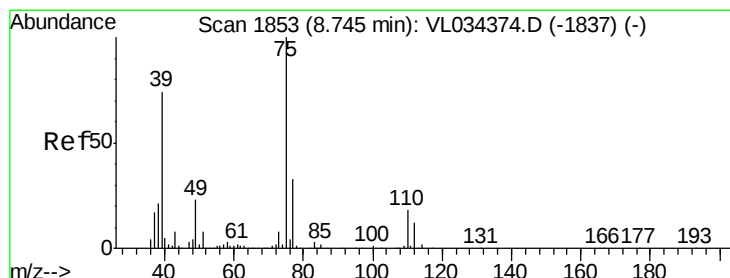
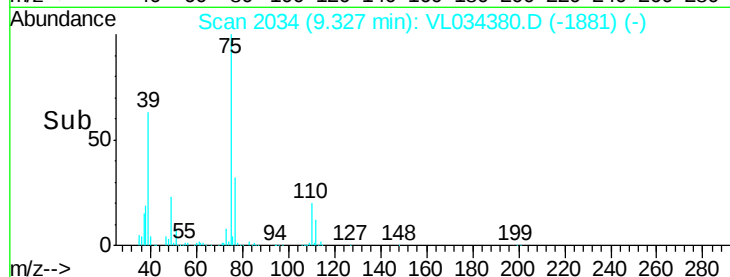
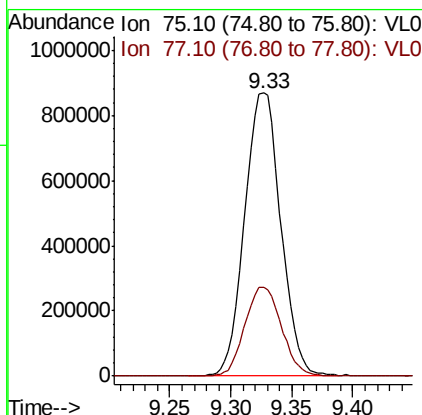
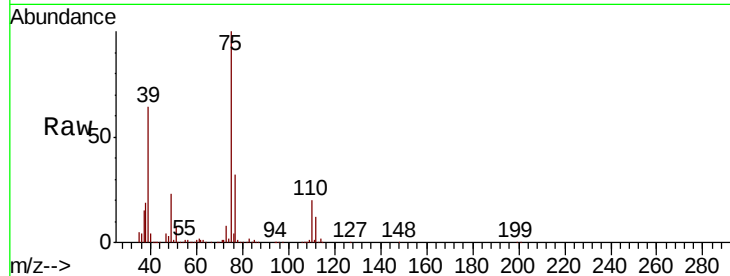
#45
t-1,3-Dichloropropene
Concen: 17.250 ppbv
RT: 9.33 min Scan# 2034
Delta R.T. -0.01 min
Lab File: VL034380.D
Acq: 19 Nov 2019 13:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 75 Resp: 1773223
Ion Ratio Lower Upper
75 100
77 31.5 25.6 38.4

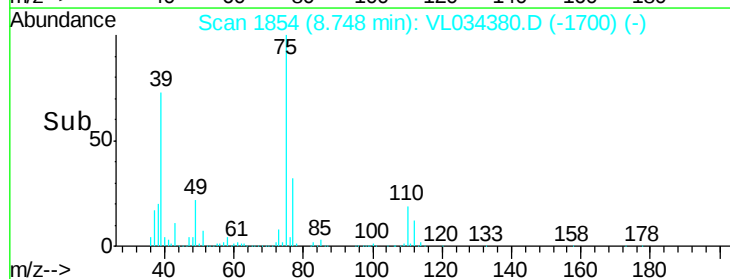
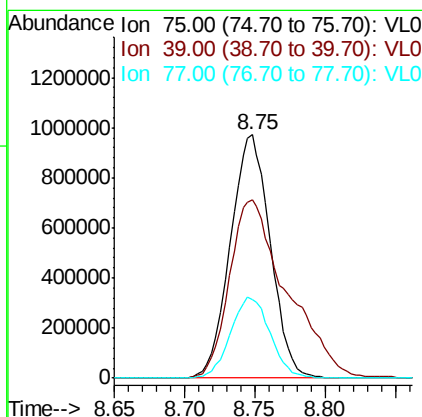
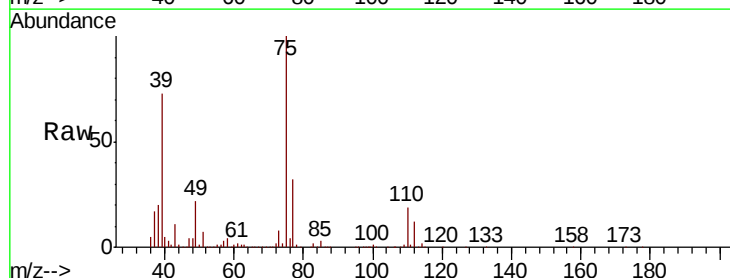
Manual Integrations
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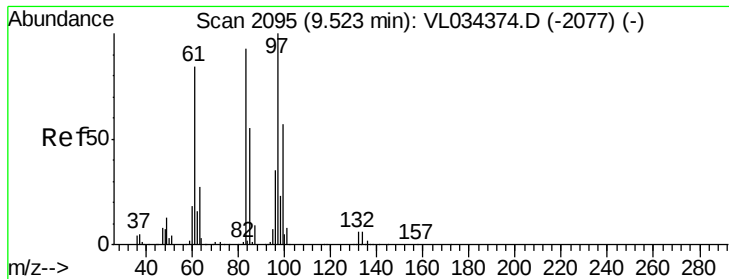
MMDadoda
11/20/2019 3:53:36 PM



#46
cis-1,3-Dichloropropene
Concen: 16.164 ppbv
RT: 8.75 min Scan# 1854
Delta R.T. -0.01 min
Lab File: VL034380.D
Acq: 19 Nov 2019 13:42

Tgt Ion: 75 Resp: 1908884
Ion Ratio Lower Upper
75 100
39 73.3 61.2 91.8
77 32.2 25.9 38.9





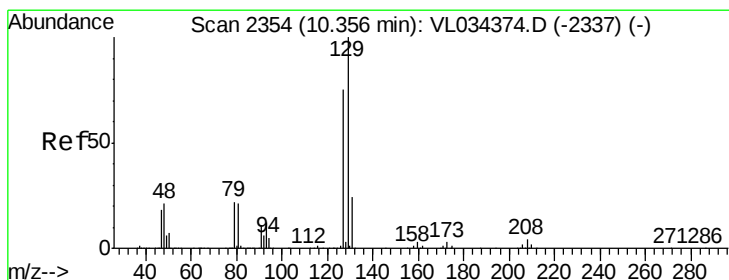
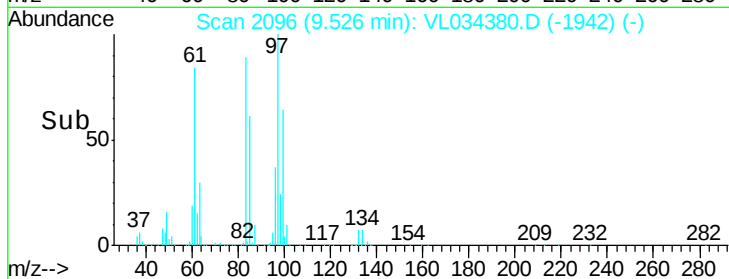
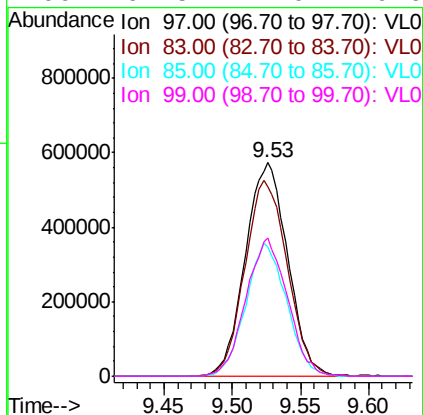
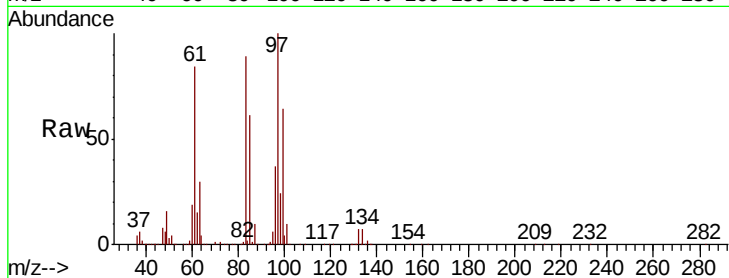
#47
 1,1,2-Trichloroethane
 Concen: 13.889 ppbv
 RT: 9.53 min Scan# 2096
 Delta R.T. -0.01 min
 Lab File: VL034380.D
 Acq: 19 Nov 2019 13:42

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
97	100		
83	88.8	74.2	111.2
85	60.6	48.6	73.0
99	64.5	47.0	70.6

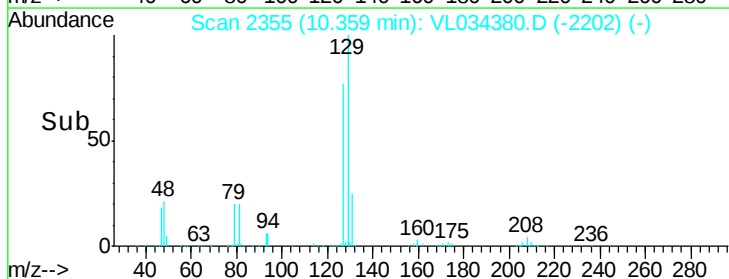
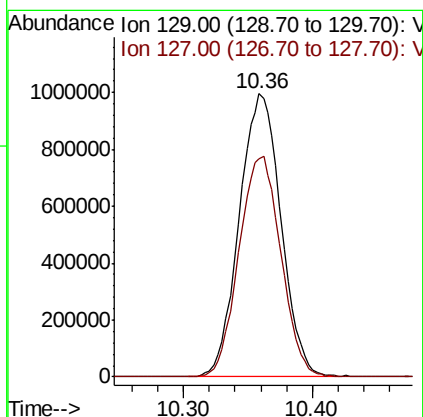
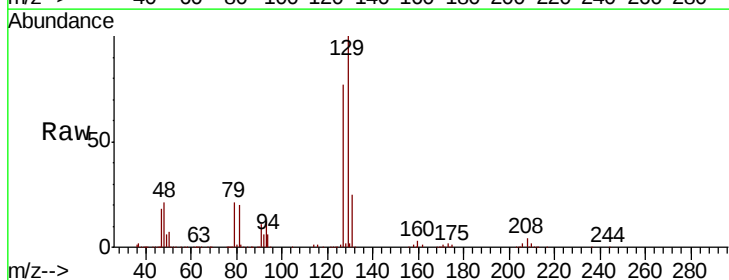
Manual Integrations
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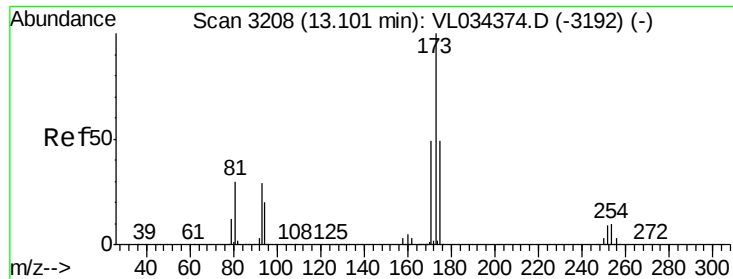
MMDadoda
 11/20/2019 3:53:36 PM



#48
 Dibromochloromethane
 Concen: 15.346 ppbv
 RT: 10.36 min Scan# 2355
 Delta R.T. -0.01 min
 Lab File: VL034380.D
 Acq: 19 Nov 2019 13:42

Tgt Ion	Ratio	Lower	Upper
129	100		
127	78.6	39.7	119.1





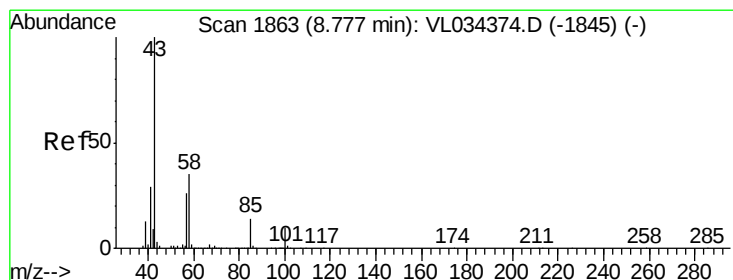
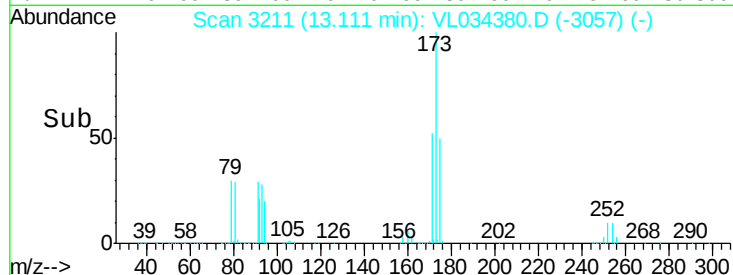
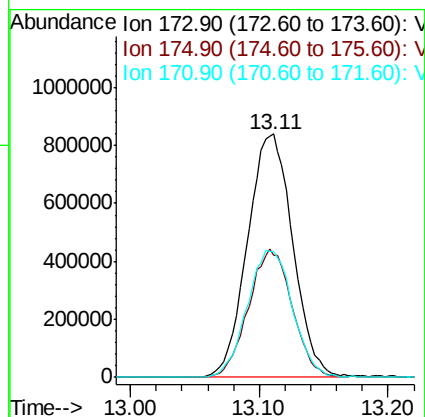
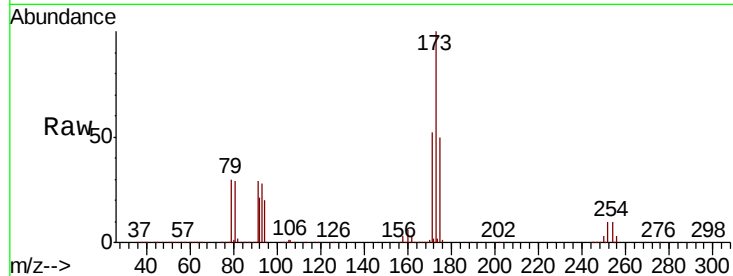
#49
Bromoform
Concen: 15.807 ppbv
RT: 13.11 min Scan# 3211
Delta R.T. -0.01 min
Lab File: VL034380.D
Acq: 19 Nov 2019 13:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion:173 Resp: 2044283
Ion Ratio Lower Upper
173 100
175 51.2 39.8 59.6
171 52.8 41.8 62.6

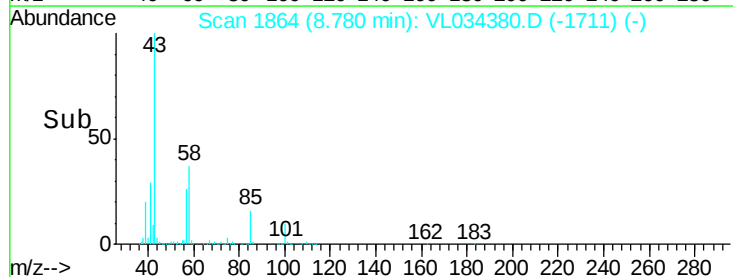
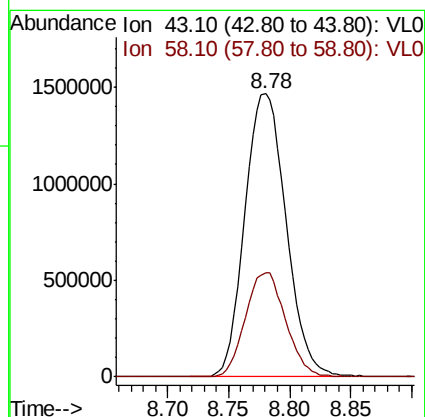
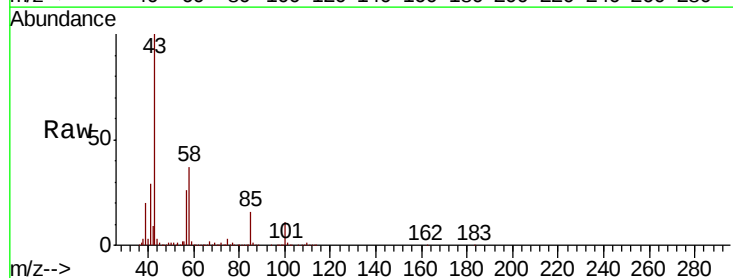
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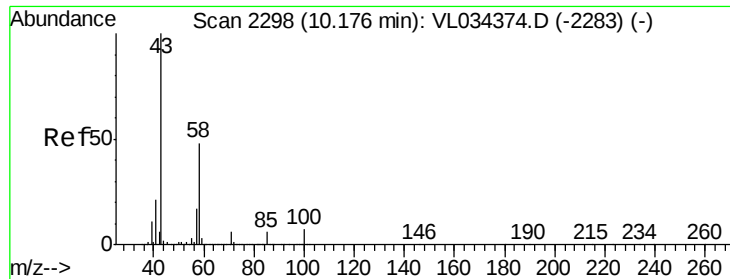
MMDadoda
11/20/2019 3:53:36 PM



#50
4-Methyl-2-Pentanone
Concen: 13.760 ppbv
RT: 8.78 min Scan# 1864
Delta R.T. -0.01 min
Lab File: VL034380.D
Acq: 19 Nov 2019 13:42

Tgt Ion: 43 Resp: 3423409
Ion Ratio Lower Upper
43 100
58 36.2 27.6 41.4





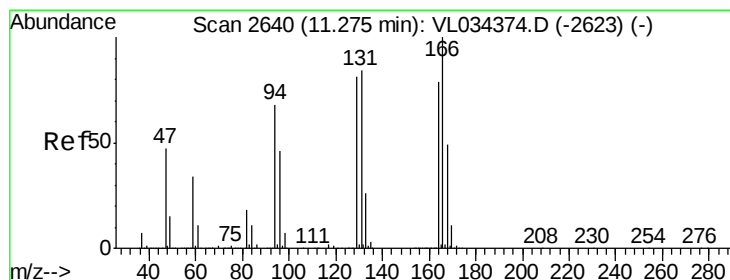
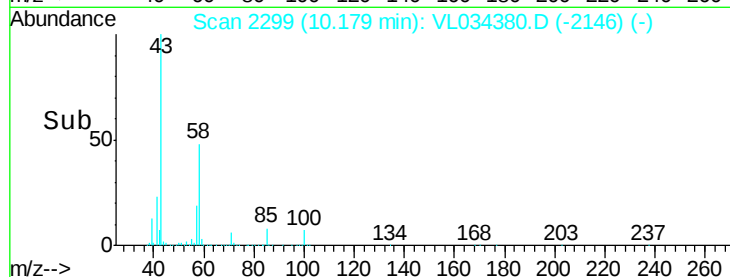
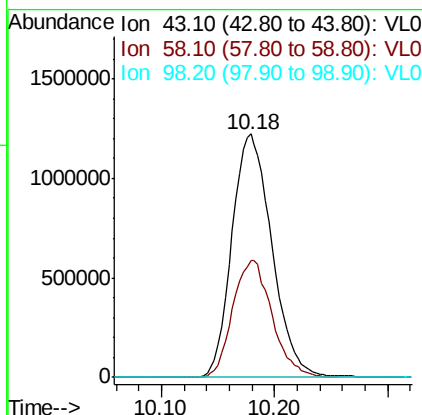
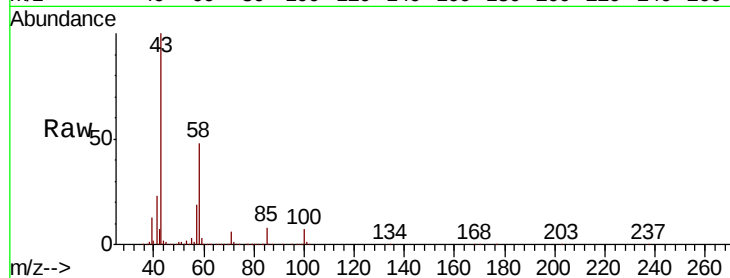
#51
2-Hexanone
Concen: 14.721 ppbv
RT: 10.18 min Scan# 2299
Delta R.T. -0.01 min
Lab File: VL034380.D
Acq: 19 Nov 2019 13:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 43 Resp: 3002348
Ion Ratio Lower Upper
43 100
58 47.4 37.0 55.6
98 0.2 0.2 0.2

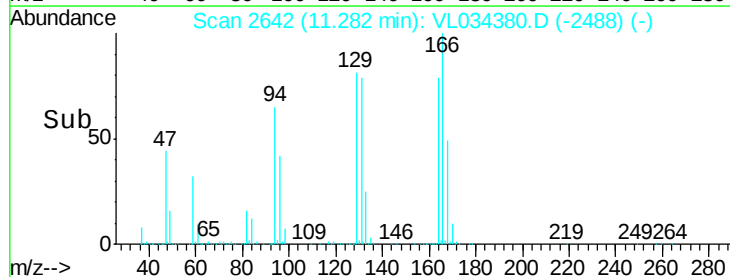
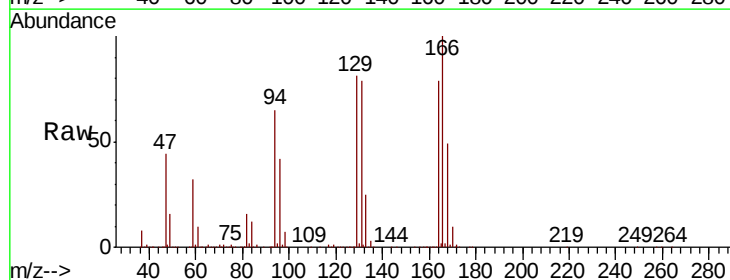
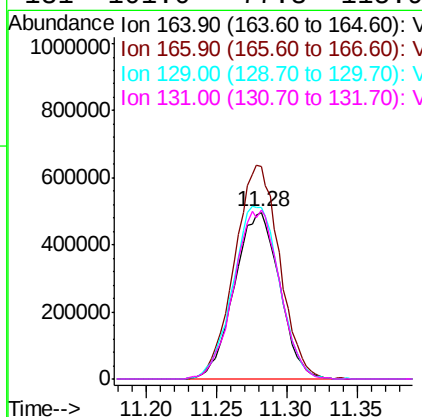
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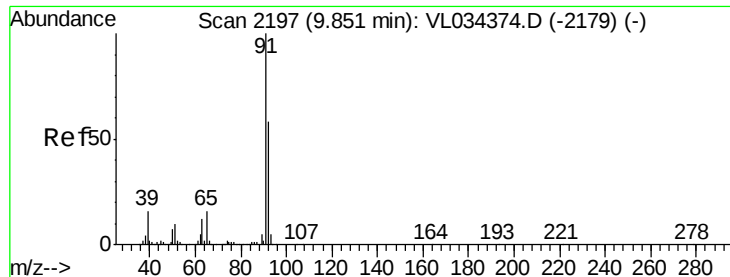
MMDadoda
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#52
Tetrachloroethene
Concen: 13.827 ppbv
RT: 11.28 min Scan# 2642
Delta R.T. -0.01 min
Lab File: VL034380.D
Acq: 19 Nov 2019 13:42

Tgt Ion: 164 Resp: 1105628
Ion Ratio Lower Upper
164 100
166 127.1 95.3 142.9
129 102.6 84.5 126.7
131 101.0 77.3 115.9





#53

Toluene

Concen: 14.846 ppbv

RT: 9.86 min Scan# 2199

Delta R.T. -0.01 min

Lab File: VL034380.D

Acq: 19 Nov 2019 13:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 91 Resp: 3342234

Ion Ratio Lower Upper

91 100

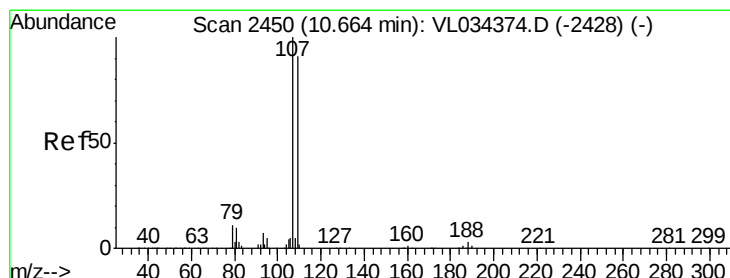
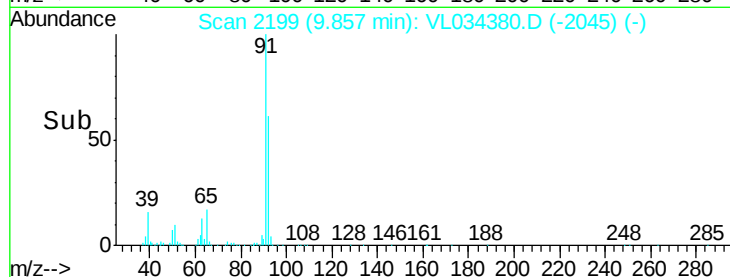
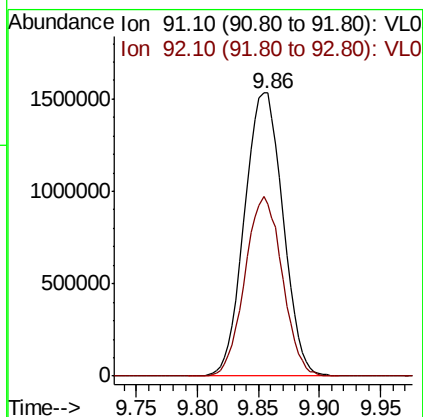
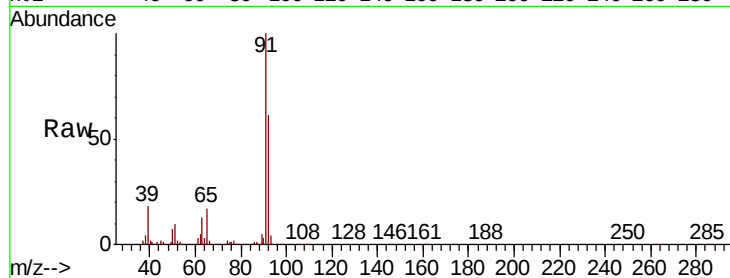
92 61.6 48.4 72.6

Manual Integrations

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#54

1,2-Dibromoethane

Concen: 14.364 ppbv

RT: 10.66 min Scan# 2450

Delta R.T. -0.01 min

Lab File: VL034380.D

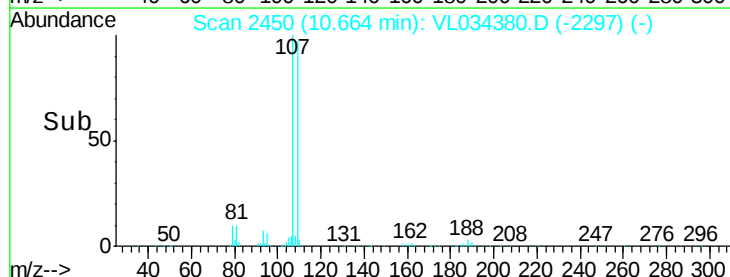
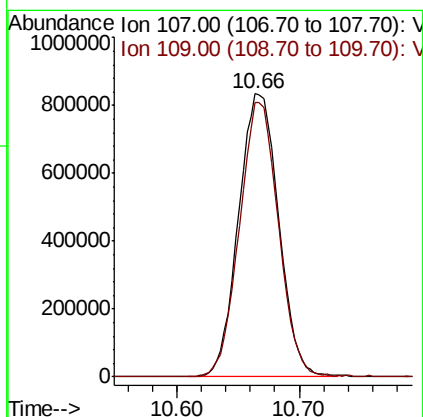
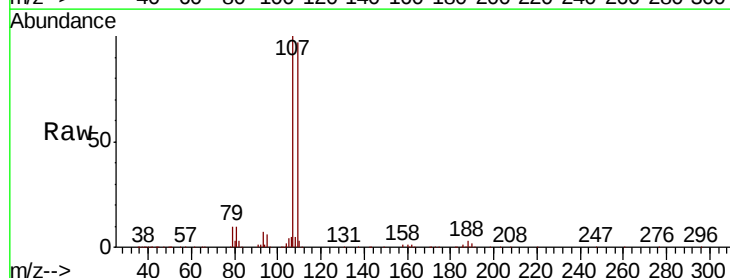
Acq: 19 Nov 2019 13:42

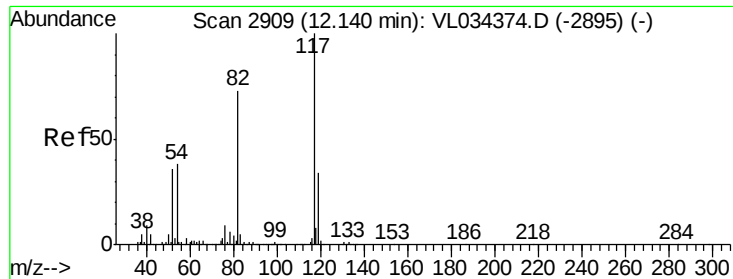
Tgt Ion: 107 Resp: 1894226

Ion Ratio Lower Upper

107 100

109 96.8 74.6 112.0





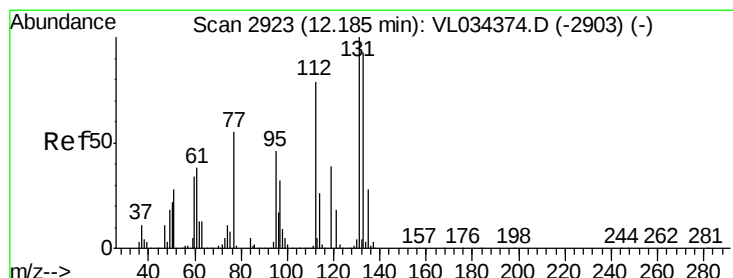
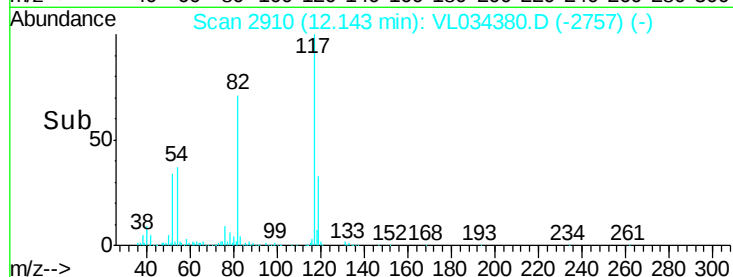
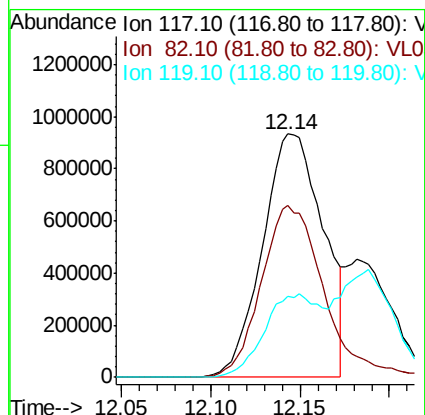
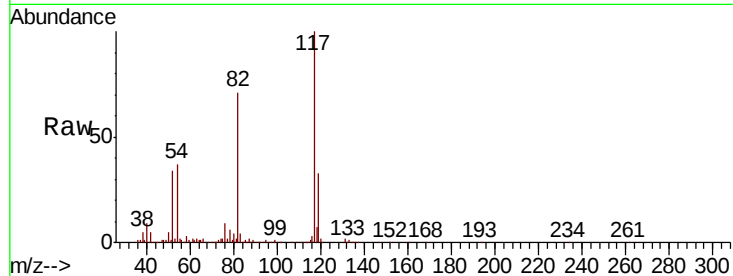
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.14 min Scan# 2910
Delta R.T. -0.01 min
Lab File: VL034380.D
Acq: 19 Nov 2019 13:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
117	100		
82	73.2	55.5	83.3
119	0.0	26.5	39.7#

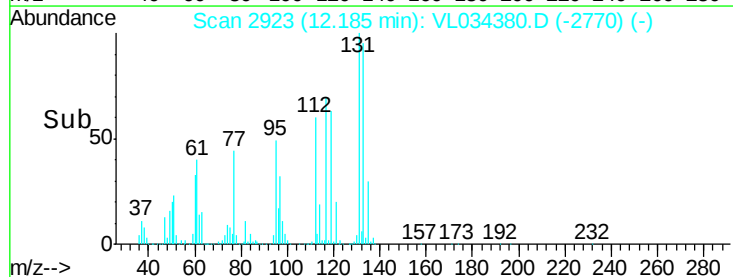
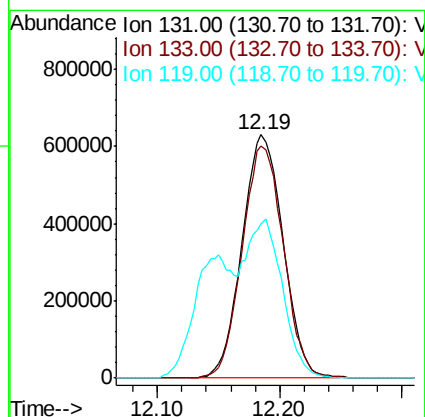
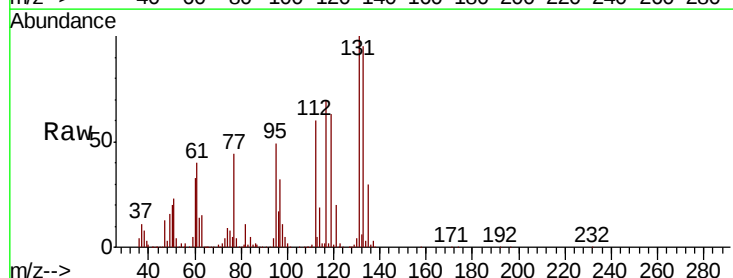
Manual Integrations
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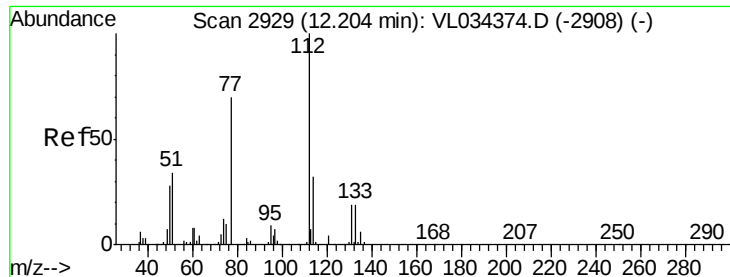
MMDadoda
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#56
1,1,1,2-Tetrachloroethane
Concen: 14.383 ppbv
RT: 12.19 min Scan# 2923
Delta R.T. -0.01 min
Lab File: VL034380.D
Acq: 19 Nov 2019 13:42

Tgt Ion	Ratio	Lower	Upper
131	100		
133	96.0	77.1	115.7
119	108.8	49.0	73.4#





#57

Chlorobenzene

Concen: 13.698 ppbv

RT: 12.21 min Scan# 2930

Delta R.T. -0.01 min

Lab File: VL034380.D

Acq: 19 Nov 2019 13:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 112 Resp: 2530205

Ion Ratio Lower Upper

112 100

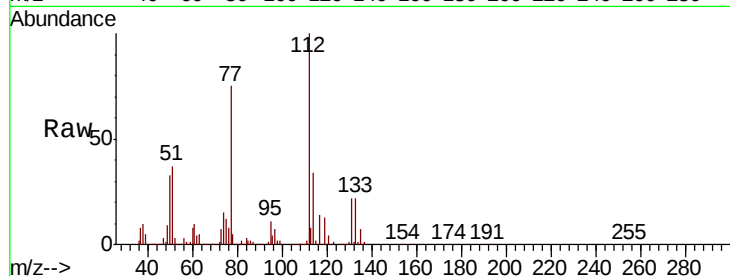
77 74.7 58.6 88.0

114 34.4 28.6 35.0

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Abundance Ion 112.10 (111.80 to 112.80): V

1500000 Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V

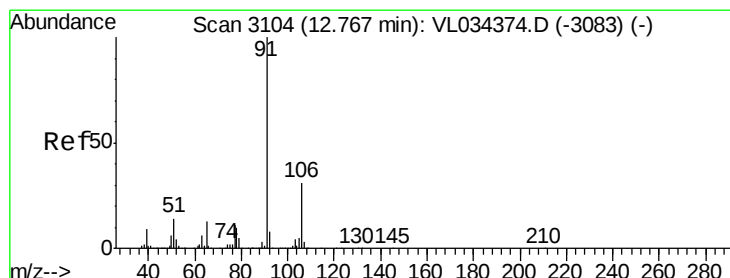
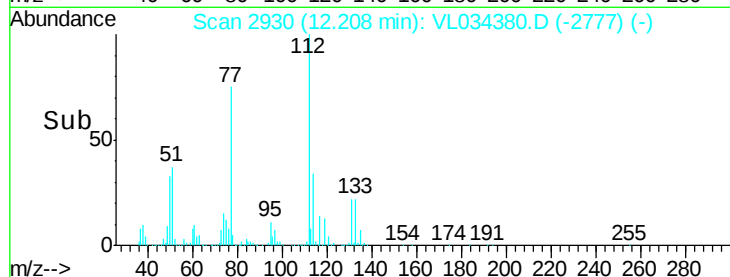
12.21

1000000

500000

0

Time-->



#58

Ethyl Benzene

Concen: 14.665 ppbv

RT: 12.77 min Scan# 3105

Delta R.T. -0.01 min

Lab File: VL034380.D

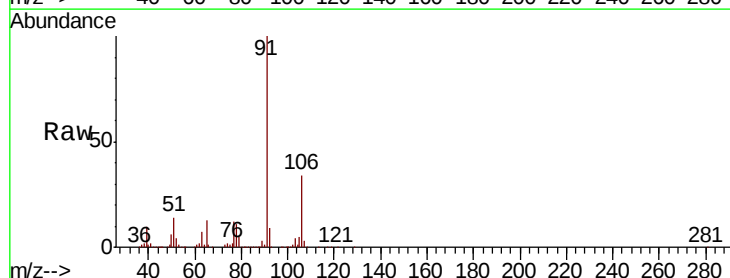
Acq: 19 Nov 2019 13:42

Tgt Ion: 91 Resp: 4538997

Ion Ratio Lower Upper

91 100

106 34.0 25.3 37.9



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

2000000

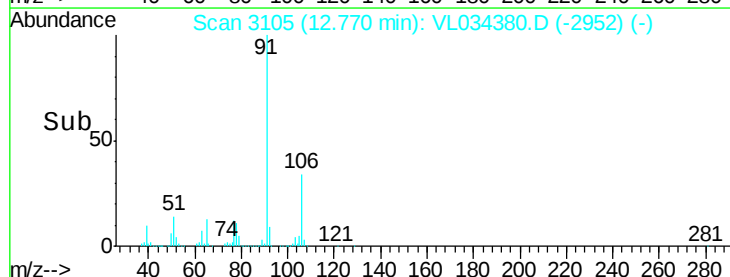
1500000

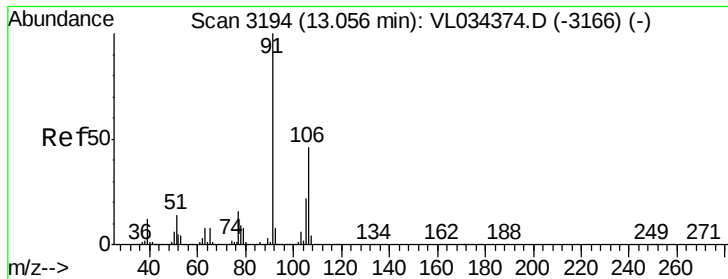
1000000

500000

0

Time-->





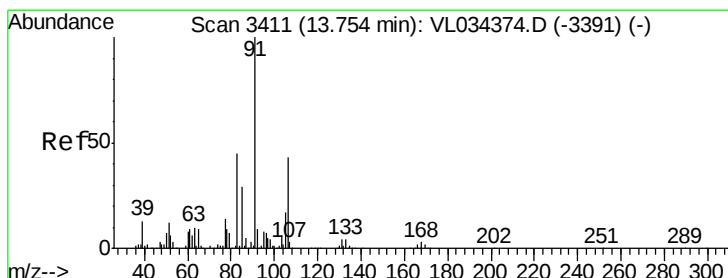
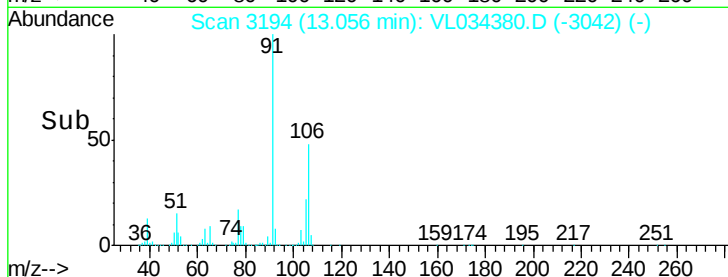
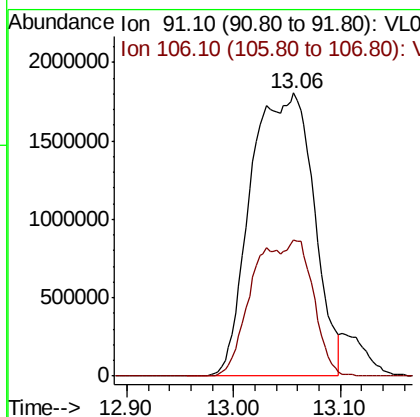
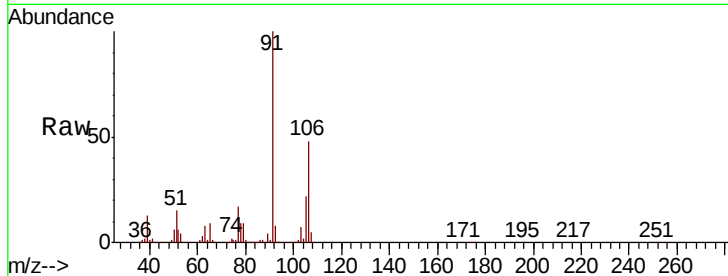
#59
m/p-Xylene
Concen: 27.509 ppbv m
RT: 13.06 min Scan# 3194
Delta R.T. -0.01 min
Lab File: VL034380.D
Acq: 19 Nov 2019 13:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 91 Resp: 7376773
Ion Ratio Lower Upper
91 100
106 46.1 35.4 53.2

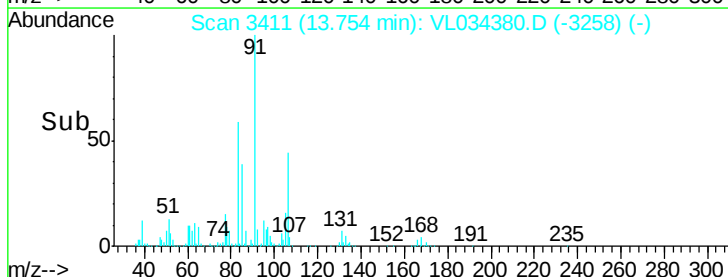
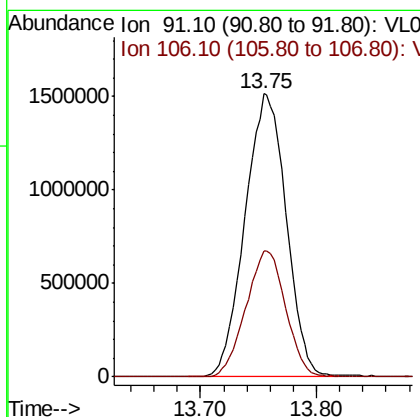
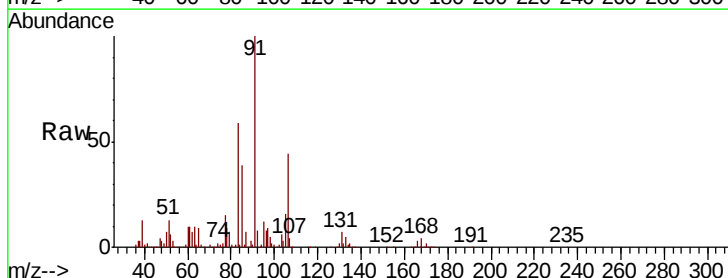
Manual Integrations
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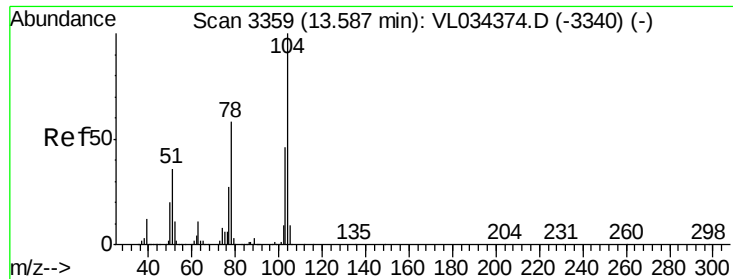
MMDadoda
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#60
o-Xylene
Concen: 14.013 ppbv
RT: 13.75 min Scan# 3411
Delta R.T. -0.01 min
Lab File: VL034380.D
Acq: 19 Nov 2019 13:42

Tgt Ion: 91 Resp: 3741912
Ion Ratio Lower Upper
91 100
106 43.1 21.6 64.6





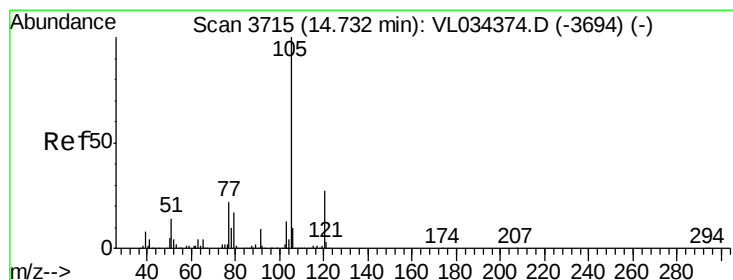
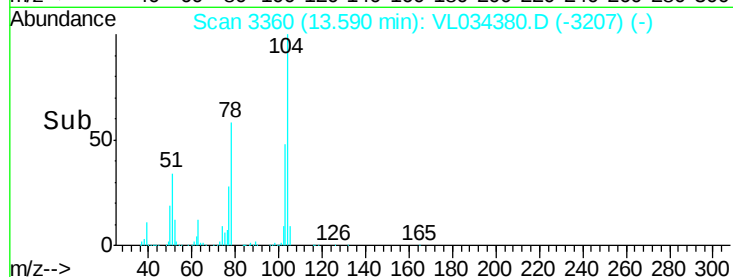
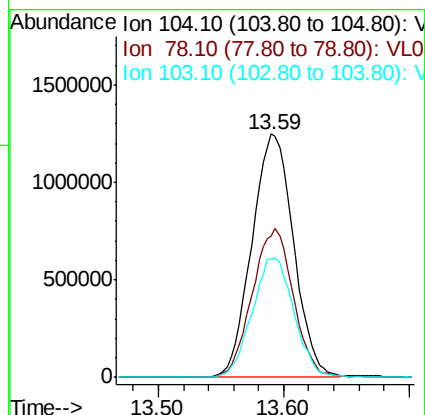
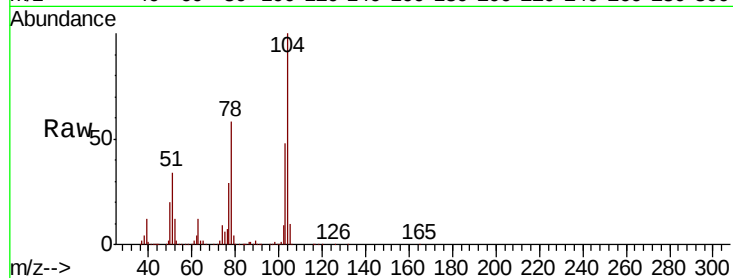
#61
Stvrene
Concen: 15.338 ppbv
RT: 13.59 min Scan# 3360
Delta R.T. -0.01 min
Lab File: VL034380.D
Acq: 19 Nov 2019 13:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
104	100		
78	60.5	47.8	71.8
103	49.2	39.0	58.6

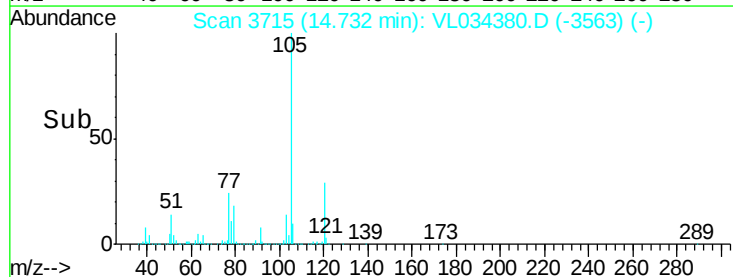
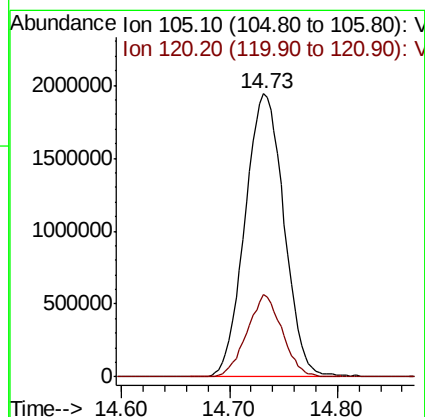
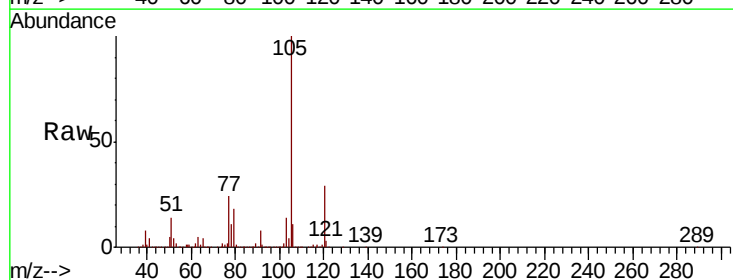
Manual Integrations
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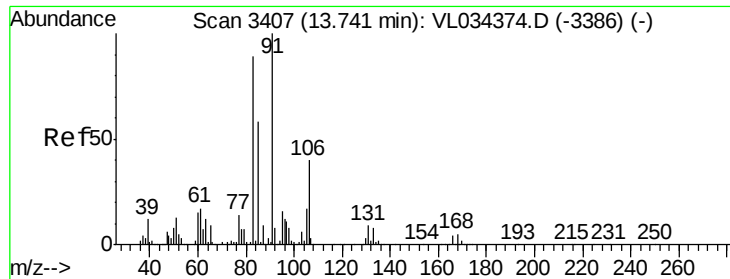
MMDadoda
11/20/2019 3:53:36 PM



#62
Isopropylbenzene
Concen: 13.849 ppbv
RT: 14.73 min Scan# 3715
Delta R.T. -0.01 min
Lab File: VL034380.D
Acq: 19 Nov 2019 13:42

Tgt Ion	Ratio	Lower	Upper
105	100		
120	26.5	20.8	31.2





#63

1,1,2,2-Tetrachloroethane

Concen: 12.457 ppbv

RT: 13.74 min Scan# 3408

Delta R.T. -0.01 min

Lab File: VL034380.D

Acq: 19 Nov 2019 13:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 83 Resp: 2672996

Ion Ratio Lower Upper

83 100

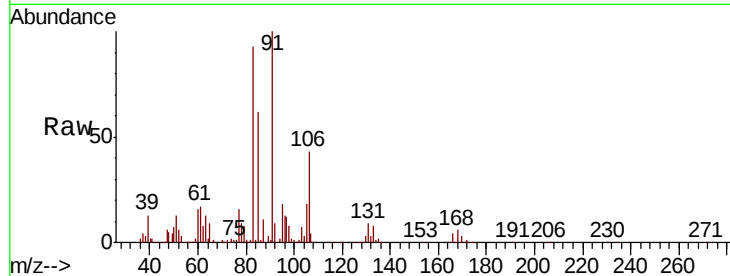
131 10.0 4.8 14.4

85 65.7 32.5 97.4

Manual Integrations
APPROVED

MMDadoda

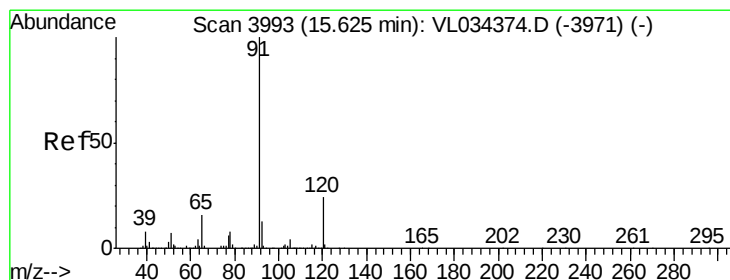
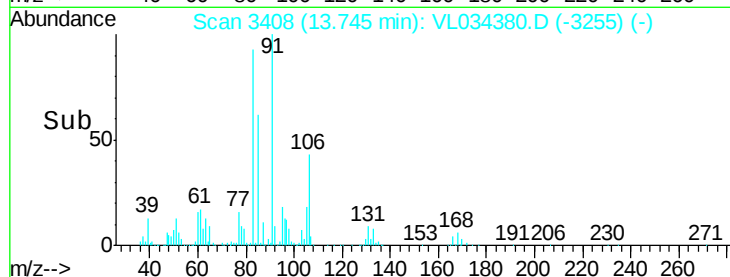
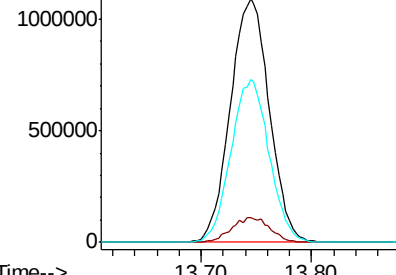
11/20/2019 3:53:36 PM



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: 14.761 ppbv

RT: 15.63 min Scan# 3995

Delta R.T. -0.00 min

Lab File: VL034380.D

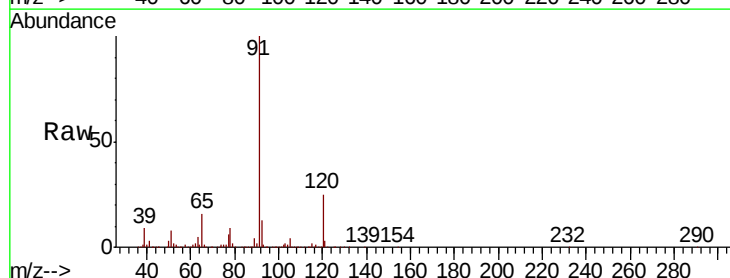
Acq: 19 Nov 2019 13:42

Tgt Ion:120 Resp: 1335352

Ion Ratio Lower Upper

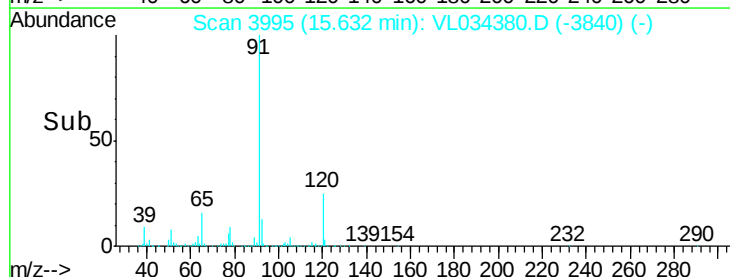
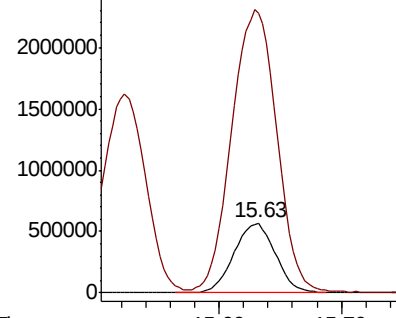
120 100

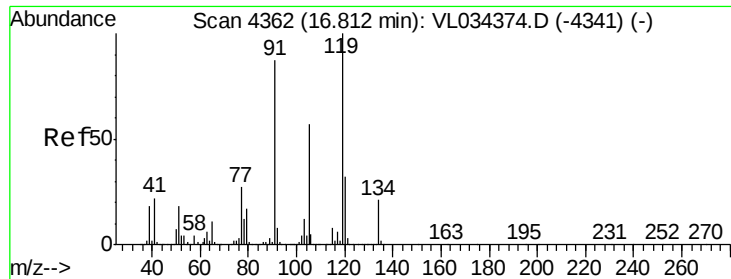
91 444.3 374.9 562.3



Abundance Ion 120.20 (119.90 to 120.90): VL0

Ion 91.10 (90.80 to 91.80): VL0





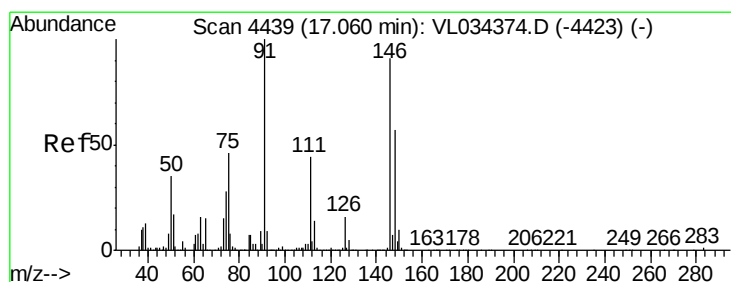
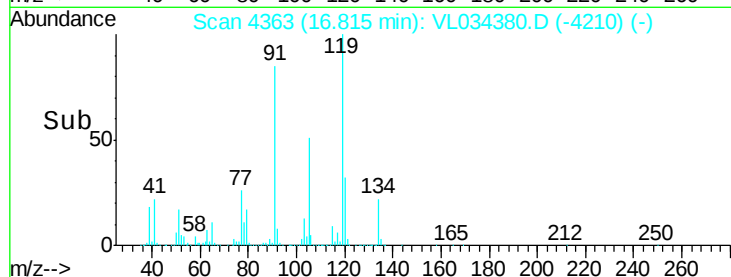
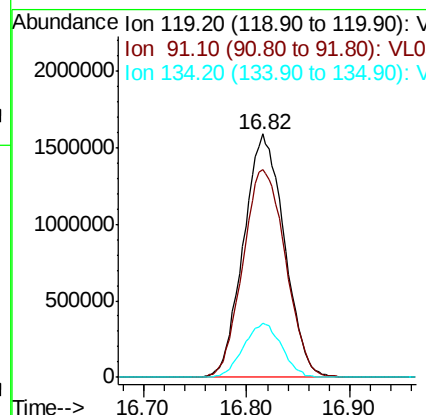
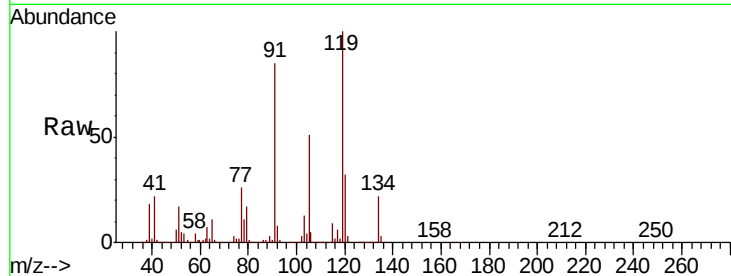
#65
 tert-Butylbenzene
 Concen: 13.961 ppbv
 RT: 16.82 min Scan# 4363
 Delta R.T. -0.01 min
 Lab File: VL034380.D
 Acq: 19 Nov 2019 13:42

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion:119 Resp: 4361626
 Ion Ratio Lower Upper
 119 100
 91 89.5 71.4 107.0
 134 20.8 15.9 23.9

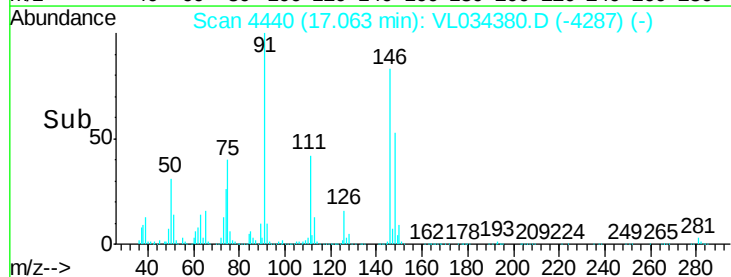
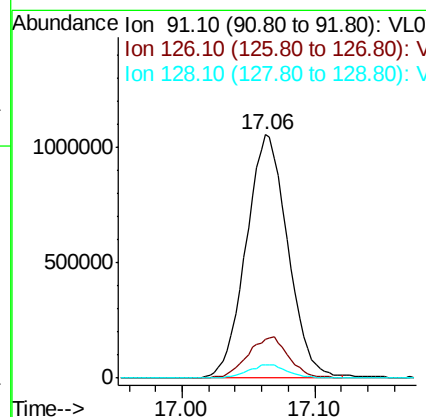
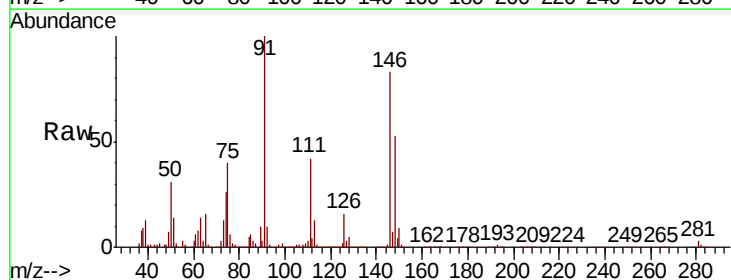
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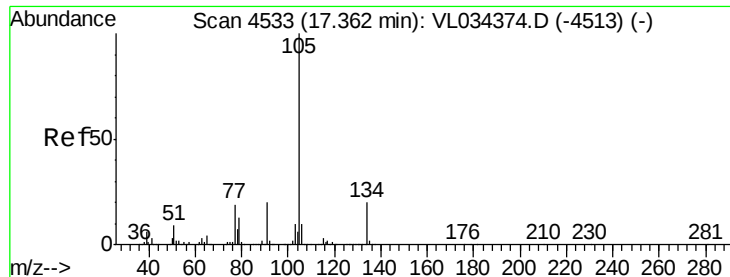
MMDadoda
 11/20/2019 3:53:36 PM



#66
 Benzyl Chloride
 Concen: 18.619 ppbv
 RT: 17.06 min Scan# 4440
 Delta R.T. -0.01 min
 Lab File: VL034380.D
 Acq: 19 Nov 2019 13:42

Tgt Ion: 91 Resp: 2297463
 Ion Ratio Lower Upper
 91 100
 126 16.7 12.9 19.3
 128 5.3 4.3 6.5





#67

sec-Butylbenzene

Concen: 13.430 ppbv

RT: 17.36 min Scan# 4534

Delta R.T. -0.01 min

Lab File: VL034380.D

Acq: 19 Nov 2019 13:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:105 Resp: 5904454

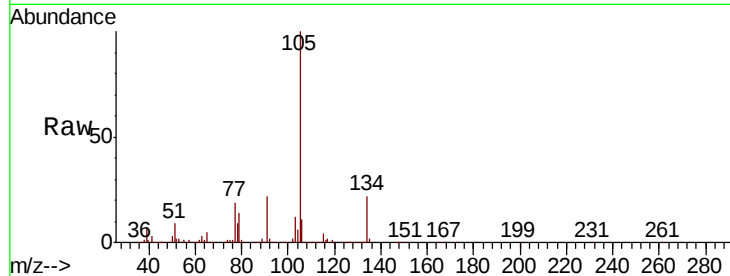
Ion Ratio Lower Upper

105 100

134 19.9 15.4 23.0

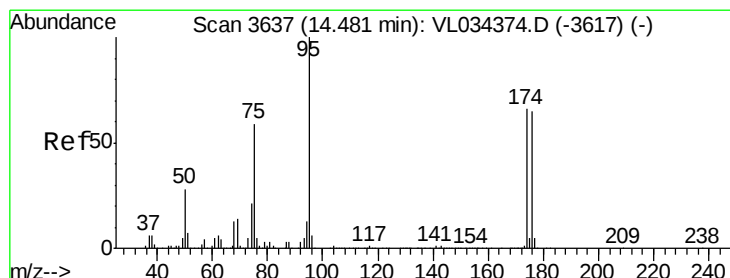
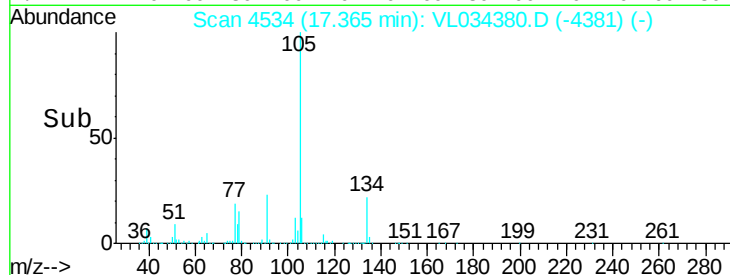
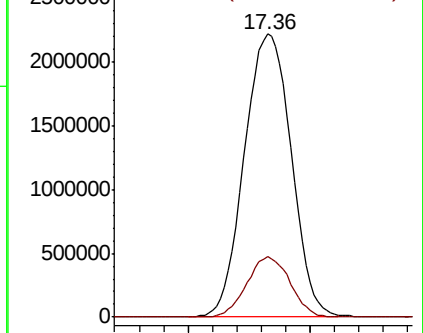
Manual Integrations
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 9.971 ppbv

RT: 14.48 min Scan# 3638

Delta R.T. -0.01 min

Lab File: VL034380.D

Acq: 19 Nov 2019 13:42

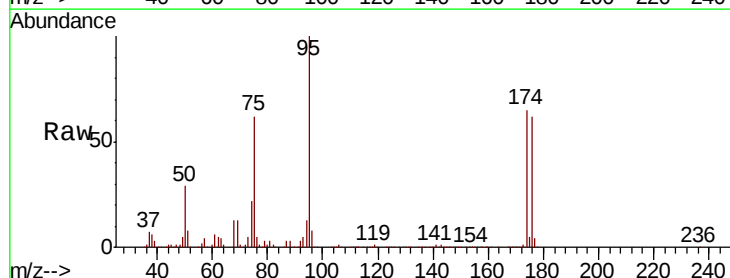
Tgt Ion: 95 Resp: 1869743

Ion Ratio Lower Upper

95 100

174 65.1 52.6 78.8

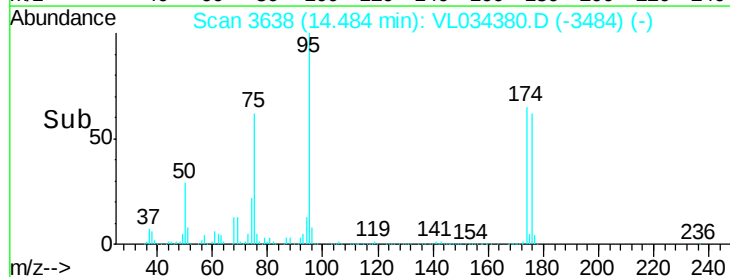
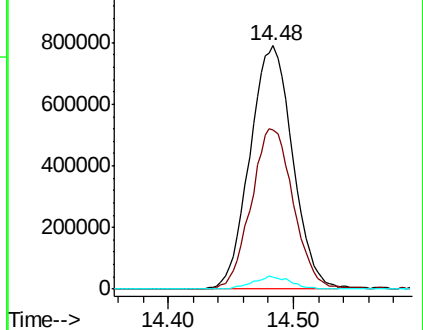
175 4.7 3.8 5.6

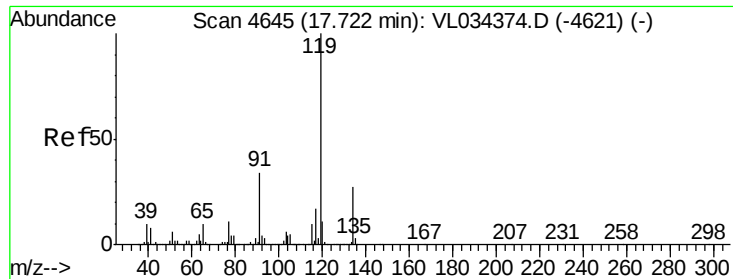


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





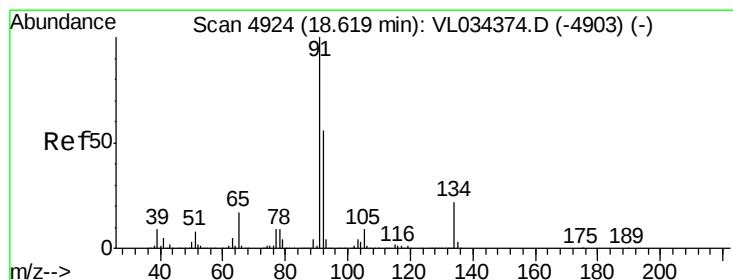
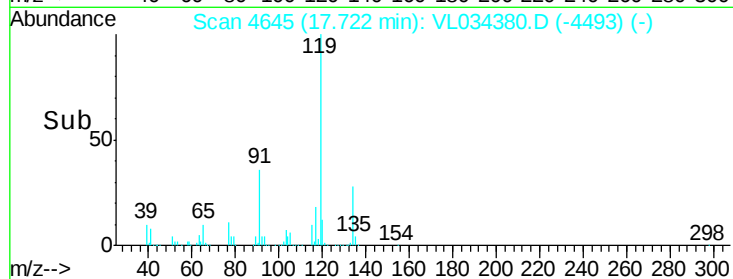
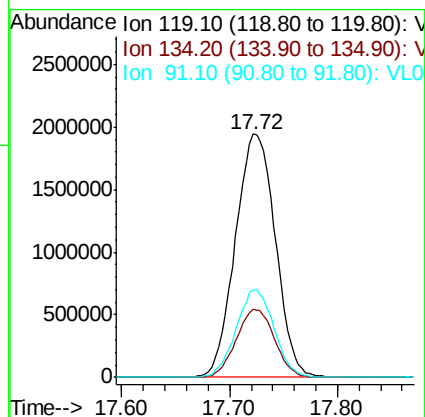
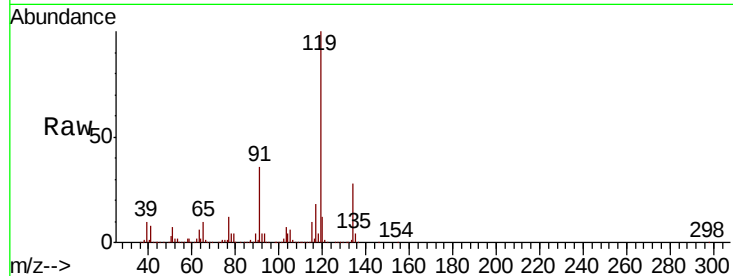
#69
 p-Isopropyltoluene
 Concen: 13.924 ppbv
 RT: 17.72 min Scan# 4645
 Delta R.T. -0.01 min
 Lab File: VL034380.D
 Acq: 19 Nov 2019 13:42

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
119	100		
134	26.8	21.3	31.9
91	34.2	26.6	39.8

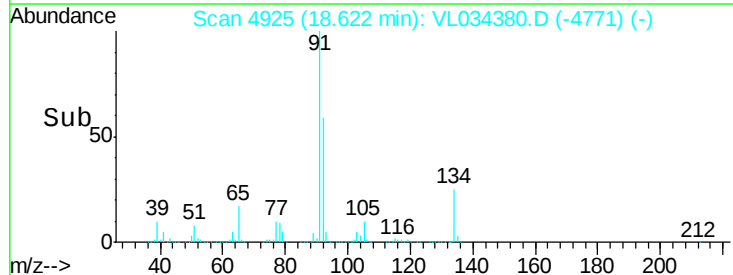
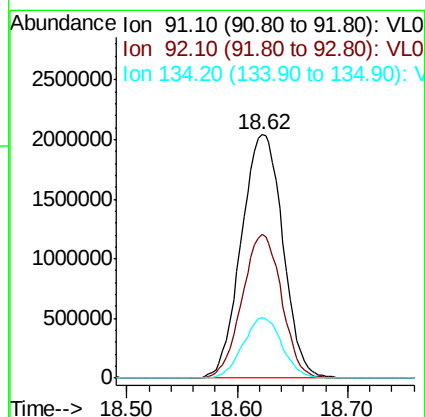
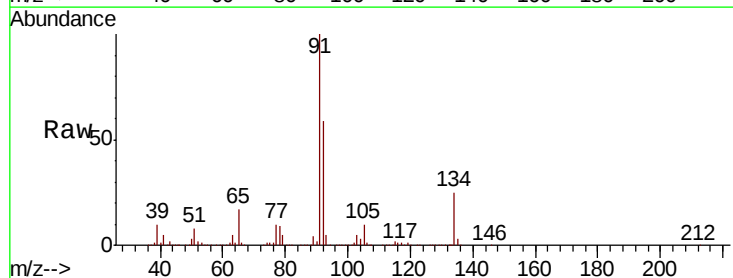
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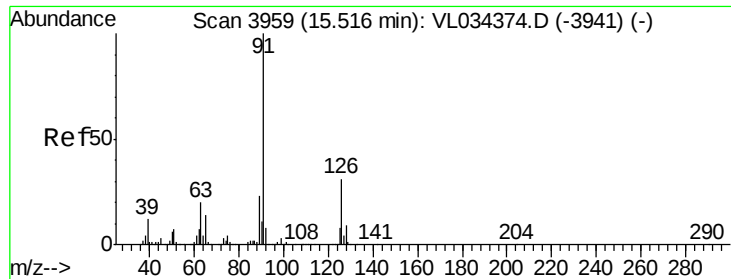
MMDadoda
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#70
 n-Butylbenzene
 Concen: 13.624 ppbv
 RT: 18.62 min Scan# 4925
 Delta R.T. -0.01 min
 Lab File: VL034380.D
 Acq: 19 Nov 2019 13:42

Tgt Ion	Ratio	Lower	Upper
91	100		
92	56.4	44.5	66.7
134	23.4	18.2	27.2





#71

2-Chlorotoluene

Concen: 14.460 ppbv

RT: 15.52 min Scan# 3961

Delta R.T. -0.01 min

Lab File: VL034380.D

Acq: 19 Nov 2019 13:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 91 Resp: 3952159

Ion Ratio Lower Upper

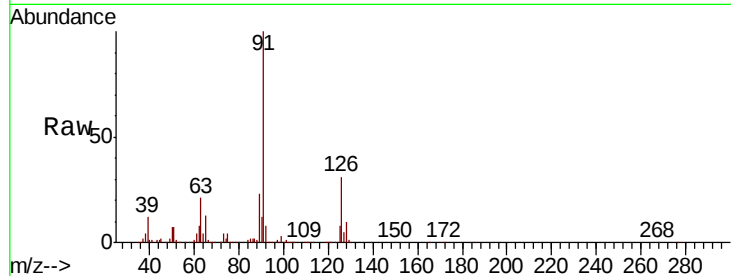
91 100

126 30.0 11.9 47.5

Manual Integrations
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

2500000

2000000

1500000

1000000

500000

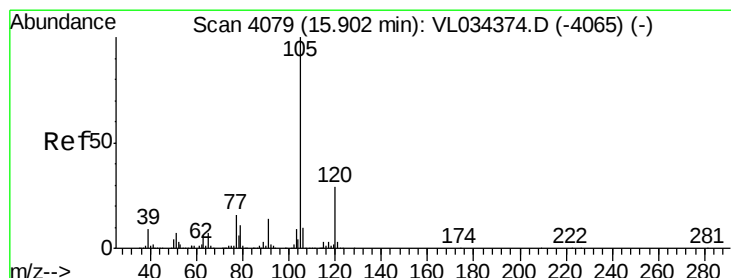
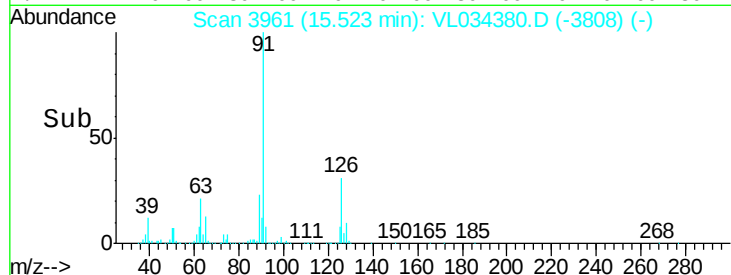
0

15.40

15.52

15.60

Time-->



#72

4-Ethyltoluene

Concen: 14.542 ppbv

RT: 15.91 min Scan# 4081

Delta R.T. -0.01 min

Lab File: VL034380.D

Acq: 19 Nov 2019 13:42

Tgt Ion:105 Resp: 4364936

Ion Ratio Lower Upper

105 100

120 30.3 23.8 35.8

91 14.4 11.2 16.8

77 16.8 12.8 19.2

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

2500000

2000000

1500000

1000000

500000

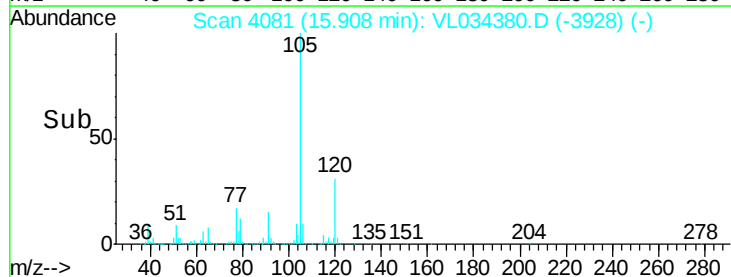
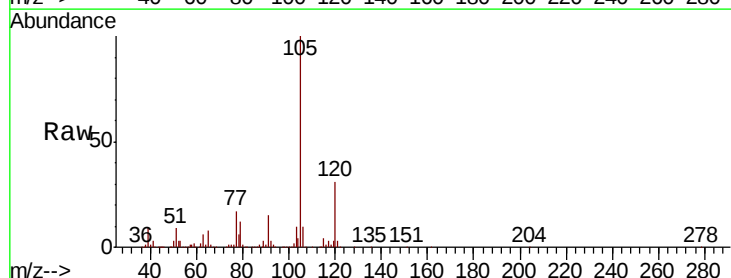
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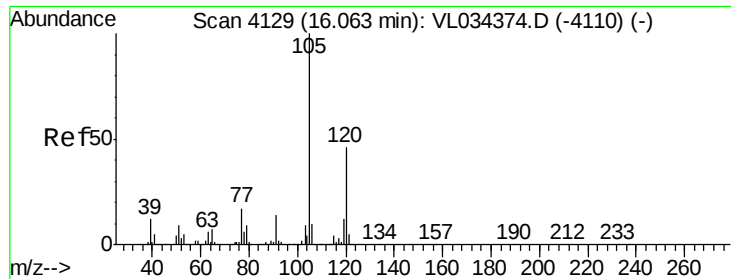
15.80

15.91

16.00

Time-->





#73

1,3,5-Trimethylbenzene

Concen: 14.124 ppbv

RT: 16.07 min Scan# 4130

Delta R.T. -0.01 min

Lab File: VL034380.D

Acq: 19 Nov 2019 13:42

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:105 Resp: 4200604

Ion Ratio Lower Upper

105 100

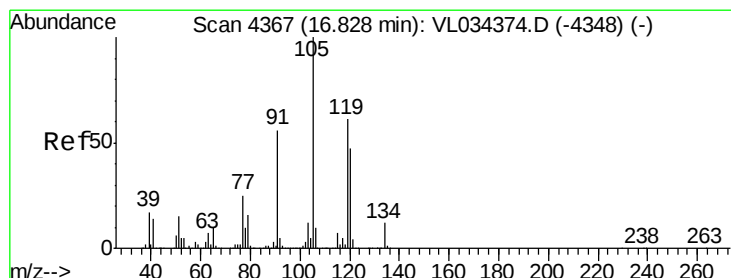
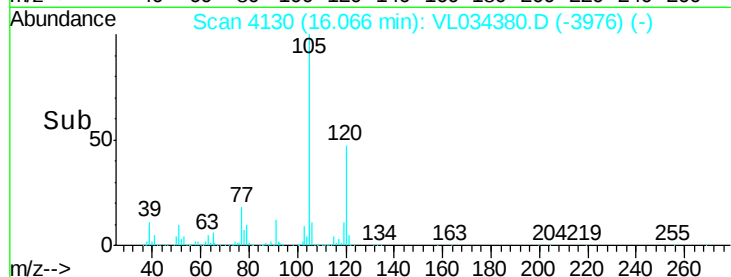
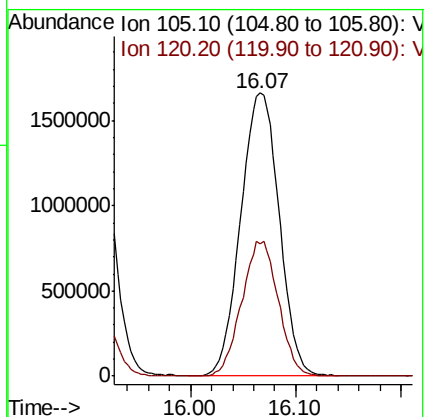
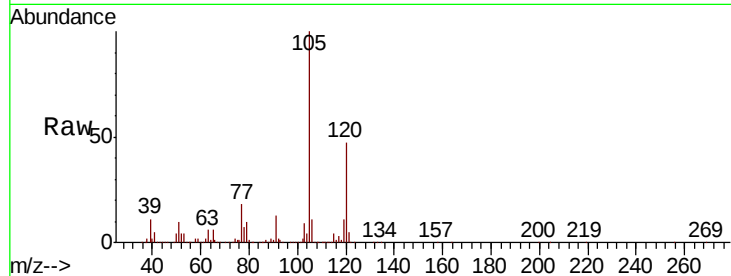
120 46.8 35.2 52.8

Manual Integrations

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#74

1,2,4-Trimethylbenzene

Concen: 13.696 ppbv

RT: 16.83 min Scan# 4369

Delta R.T. -0.01 min

Lab File: VL034380.D

Acq: 19 Nov 2019 13:42

Tgt Ion:105 Resp: 4247692

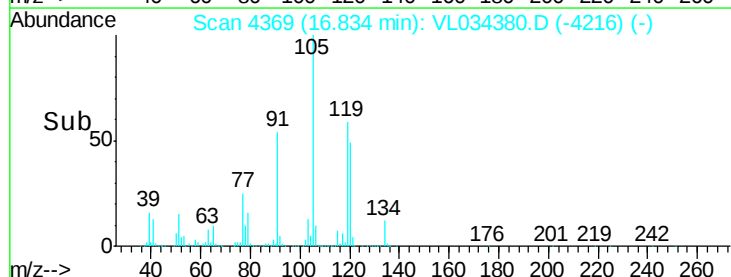
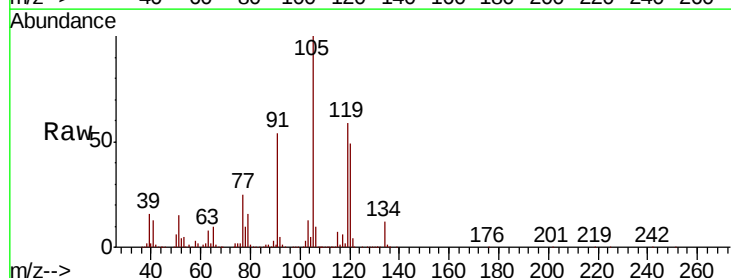
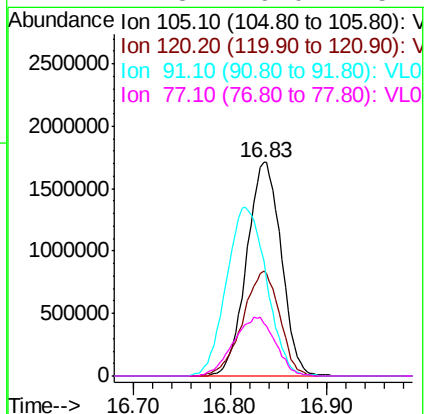
Ion Ratio Lower Upper

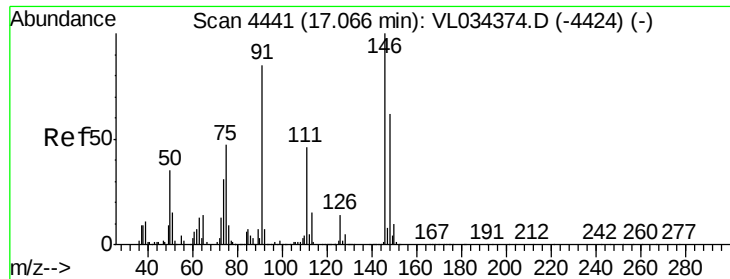
105 100

120 49.2 37.0 55.6

91 53.6 38.2 57.2

77 24.8 19.0 28.4





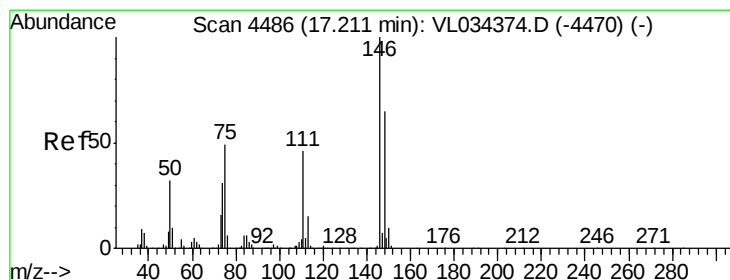
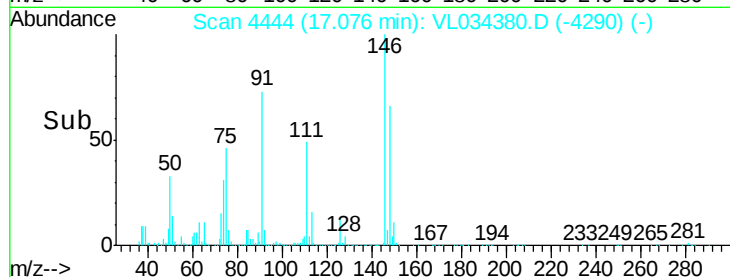
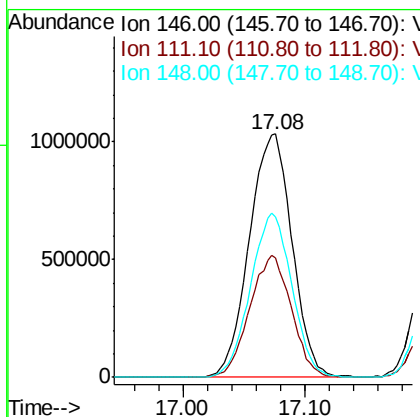
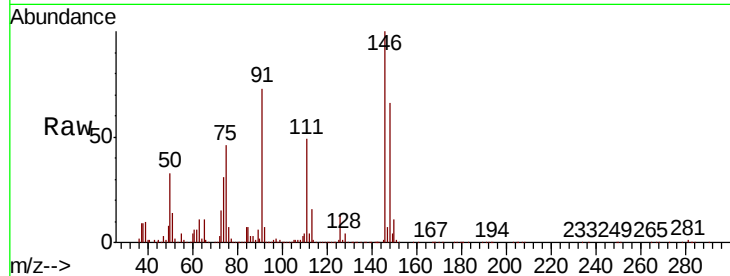
#75
 1,3-Dichlorobenzene
 Concen: 13.477 ppbv
 RT: 17.08 min Scan# 4444
 Delta R.T. -0.01 min
 Lab File: VL034380.D
 Acq: 19 Nov 2019 13:42

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
146	100		
111	48.9	24.5	73.5
148	65.7	32.3	96.8

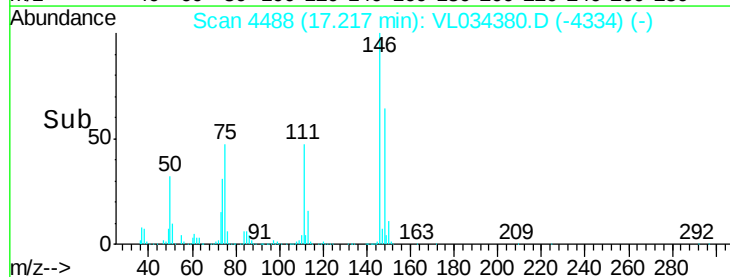
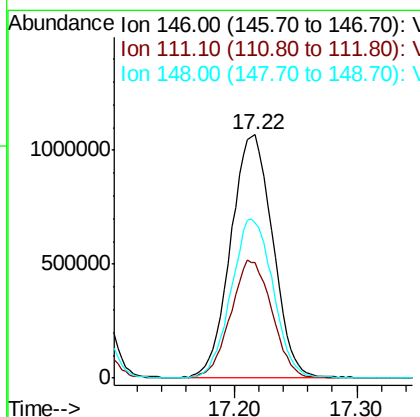
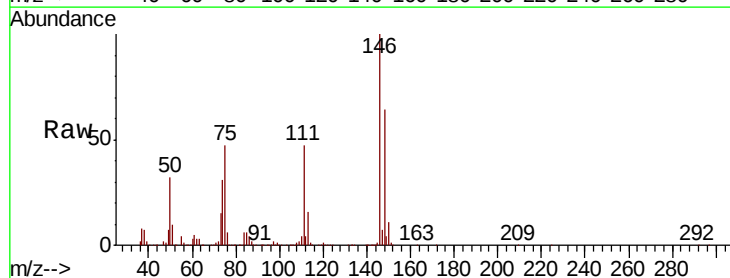
Manual Integrations
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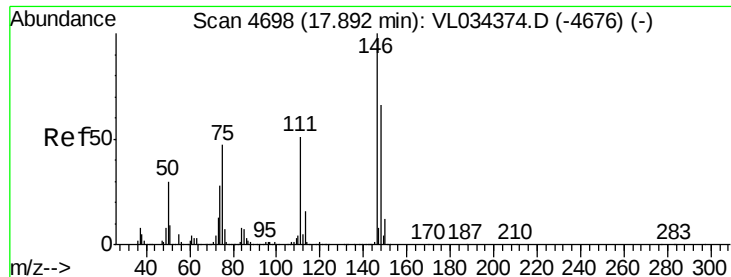
MMDadoda
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#76
 1,4-Dichlorobenzene
 Concen: 13.924 ppbv
 RT: 17.22 min Scan# 4488
 Delta R.T. -0.01 min
 Lab File: VL034380.D
 Acq: 19 Nov 2019 13:42

Tgt Ion	Ratio	Lower	Upper
146	100		
111	47.9	23.9	71.7
148	65.9	33.1	99.2





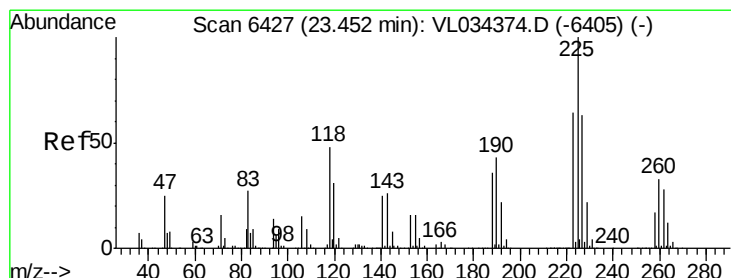
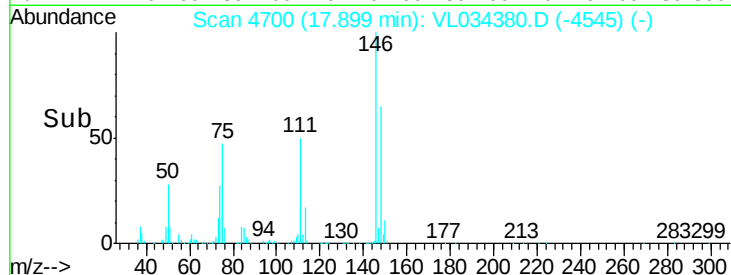
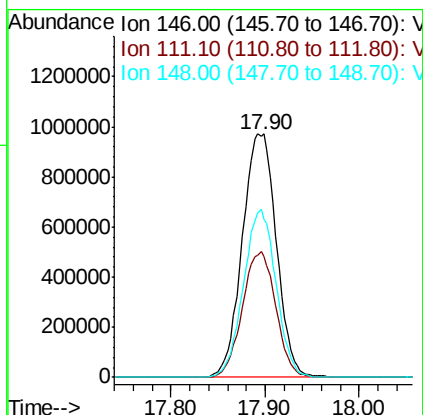
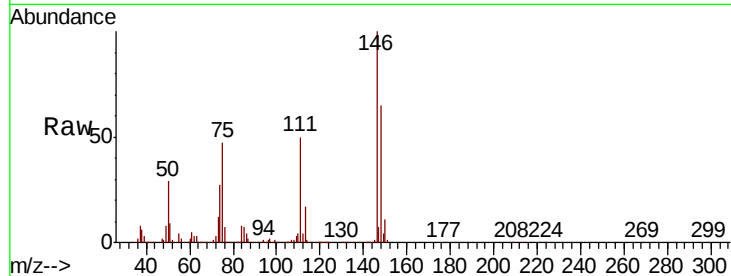
#77
 1,2-Dichlorobenzene
 Concen: 13.382 ppbv m
 RT: 17.90 min Scan# 4700
 Delta R.T. -0.00 min
 Lab File: VL034380.D
 Acq: 19 Nov 2019 13:42

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion:146 Resp: 2443134
 Ion Ratio Lower Upper
 146 100
 111 0.0 25.1 75.3#
 148 0.0 32.3 96.8#

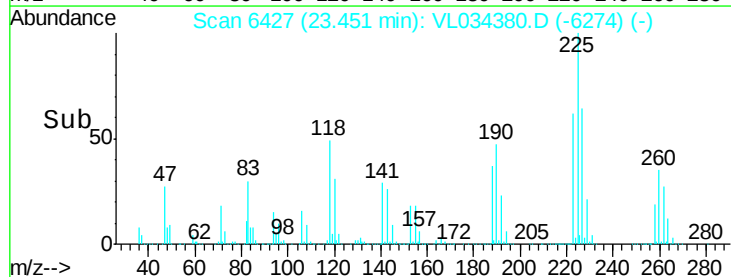
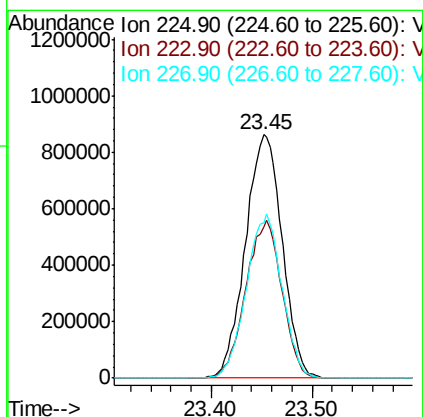
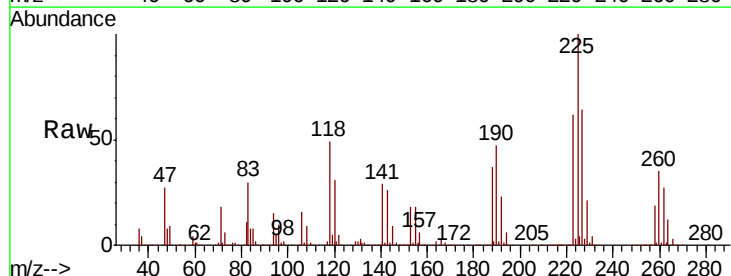
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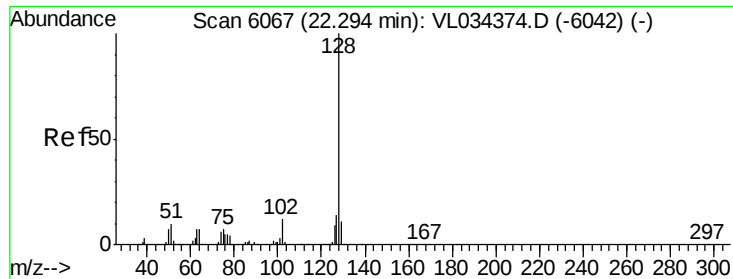
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#78
 Hexachloro-1,3-Butadiene
 Concen: 14.427 ppbv
 RT: 23.45 min Scan# 6427
 Delta R.T. -0.01 min
 Lab File: VL034380.D
 Acq: 19 Nov 2019 13:42

Tgt Ion:225 Resp: 2178634
 Ion Ratio Lower Upper
 225 100
 223 63.7 50.8 76.2
 227 65.3 51.5 77.3





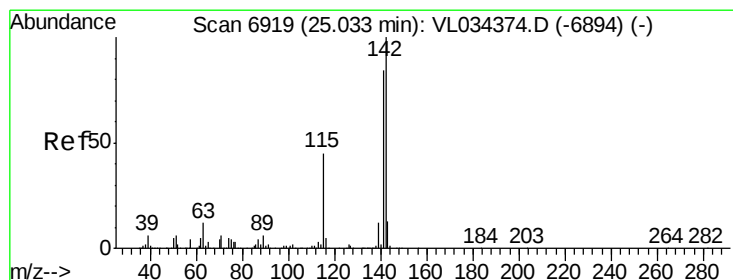
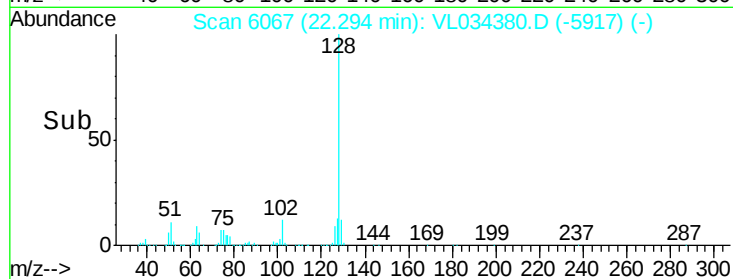
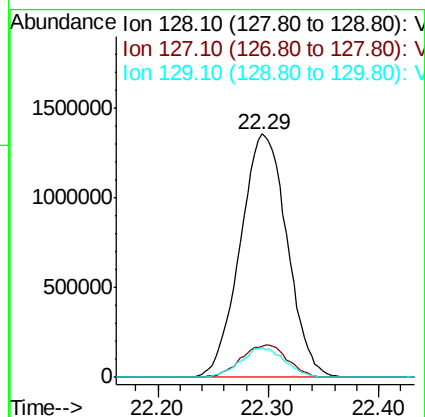
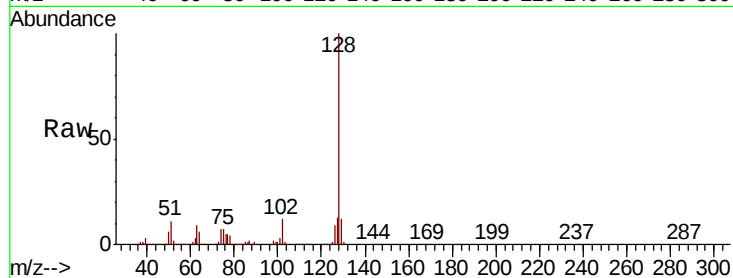
#79
Naphthalene
Concen: 17.524 ppbv
RT: 22.29 min Scan# 6067
Delta R.T. -0.02 min
Lab File: VL034380.D
Acq: 19 Nov 2019 13:42

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.2	15.4
129	12.2	8.9	13.3

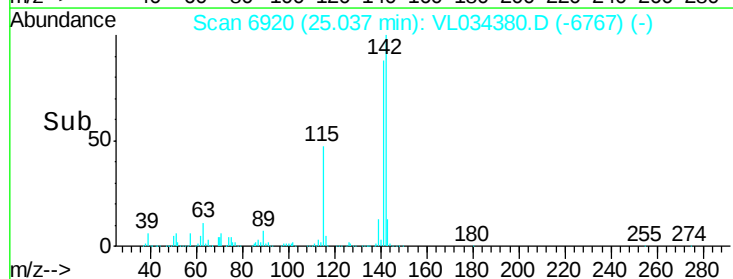
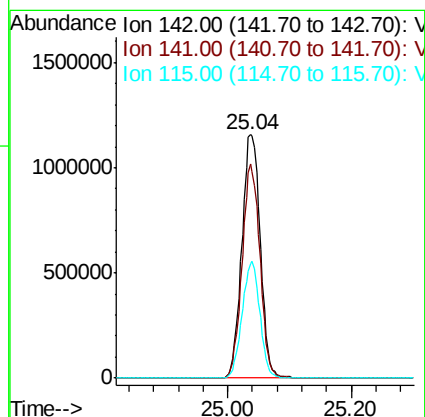
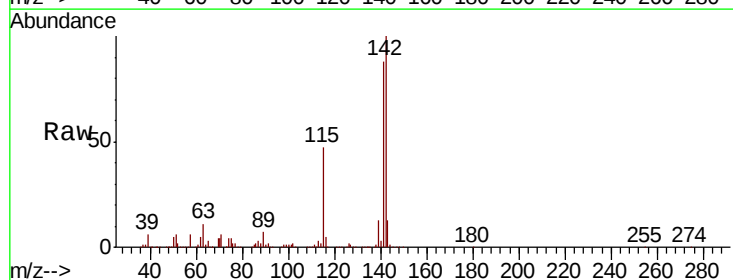
Manual Integrations
APPROVED

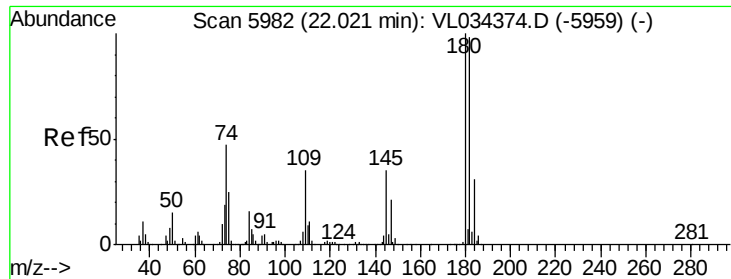
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11/20/2019 3:53:36 PM



#80
Naphthalene, 2-methyl-
Concen: 36.532 ppbv
RT: 25.04 min Scan# 6920
Delta R.T. -0.01 min
Lab File: VL034380.D
Acq: 19 Nov 2019 13:42

Tgt Ion	Ratio	Lower	Upper
142	100		
141	85.2	65.7	98.5
115	46.2	30.9	46.3





#81
 1,2,4-Trichlorobenzene
 Concen: 16.203 ppbv
 RT: 22.02 min Scan# 5982
 Delta R.T. -0.01 min
 Lab File: VL034380.D
 Acq: 19 Nov 2019 13:42

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.8	77.8	116.8
184	31.4	25.4	38.2

Manual Integrations
 APPROVED

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