

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL090820\
 Data File : VL035570.D
 Acq On : 9 Sep 2020 00:27
 Operator : SY/AP
 Sample : L3898-08
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-7

Manual Integrations
 APPROVED

MMDadoda
 9/10/2020 10:45:35 AM

Quant Time: Sep 12 08:11:56 2020

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL082720AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Aug 27 2020

QLast Update : Thu Aug 27 06:46:28 2020

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1051912	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.18	114	4383549	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.09	117	4380083	10.00	ppbv	-0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	3328355	10.70	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	107.00%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.03	85	80871	0.444 ppbv	97
3) Chlorodifluoromethane	2.97	51	242377m	2.083 ppbv	
4) Chloromethane	3.12	50	35497	0.570 ppbv	98
9) Propene	3.00	41	225679	5.032 ppbv #	81
10) Heptane	8.11	43	87426	0.726 ppbv #	18
11) Trichlorofluoromethane	3.93	101	2690657	10.121 ppbv	100
13) Ethanol	3.61	45	1628843	146.473 ppbv	97
15) Acetone	3.83	43	9092023	78.369 ppbv #	70
17) tert-Butyl alcohol	4.30	59	1010336	7.154 ppbv	98
19) Isopropyl Alcohol	3.98	45	693870	10.025 ppbv #	93
20) Methylene Chloride	4.34	84	385738	4.464 ppbv	98
26) Hexane	5.68	57	354416	3.052 ppbv #	58
27) Carbon Disulfide	4.54	76	4554549	27.330 ppbv	97
29) Chloroform	5.75	83	359910	1.521 ppbv	100
30) Cyclohexane	7.12	84	52295	0.420 ppbv #	93
32) 1,1,1-Trichloroethane	6.51	97	10880	0.047 ppbv #	92
34) 2-Butanone	5.24	43	669505	5.146 ppbv	99
35) Carbon Tetrachloride	7.01	117	15717m	0.071 ppbv	
36) Benzene	6.88	78	539236	1.900 ppbv	98
37) 1,2-Dichloroethane	6.30	62	24047m	0.178 ppbv	
38) Trichloroethene	7.83	130	36828	0.223 ppbv	99
40) 1,4-Dioxane	7.83	88	18464m	0.386 ppbv	
41) Tetrahydrofuran	6.05	42	16114m	0.234 ppbv	
42) Bromodichloromethane	7.80	83	23037	0.105 ppbv	91
43) Methyl Methacrylate	8.01	69	175158	1.596 ppbv #	30
50) 4-Methyl-2-Pentanone	8.75	43	66726	0.354 ppbv	93
52) Tetrachloroethene	11.22	164	123580	0.746 ppbv	100
53) Toluene	9.81	91	1701487	4.768 ppbv	98
58) Ethyl Benzene	12.71	91	214486	0.475 ppbv	89
59) m/p-Xylene	12.97	91	597497	1.583 ppbv	96
60) o-Xylene	13.70	91	454637	1.196 ppbv	97
61) Styrene	13.53	104	111841	0.385 ppbv	99
62) Isopropylbenzene	14.67	105	438234	0.718 ppbv	93
64) n-propylbenzene	15.57	120	373427	2.004 ppbv #	65
65) tert-Butylbenzene	16.77	119	503537	0.887 ppbv #	72
67) sec-Butylbenzene	17.30	105	114967	0.152 ppbv	90
69) p-Isopropyltoluene	17.66	119	206085	0.311 ppbv	93
72) 4-Ethyltoluene	15.85	105	1746098	3.613 ppbv	96
73) 1,3,5-Trimethylbenzene	16.00	105	1582333	3.540 ppbv	93
74) 1,2,4-Trimethylbenzene	16.77	105	4056357	8.264 ppbv #	75
76) 1,4-Dichlorobenzene	17.15	146	144490	0.403 ppbv	96

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Quant Time: Sep 12 08:11:56 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL082720AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Aug 27 06:46:28 2020
QLast Update : Thu Aug 27 06:46:28 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
79) Naphthalene	22.21	128	697234	1.280	ppbv	# 94

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

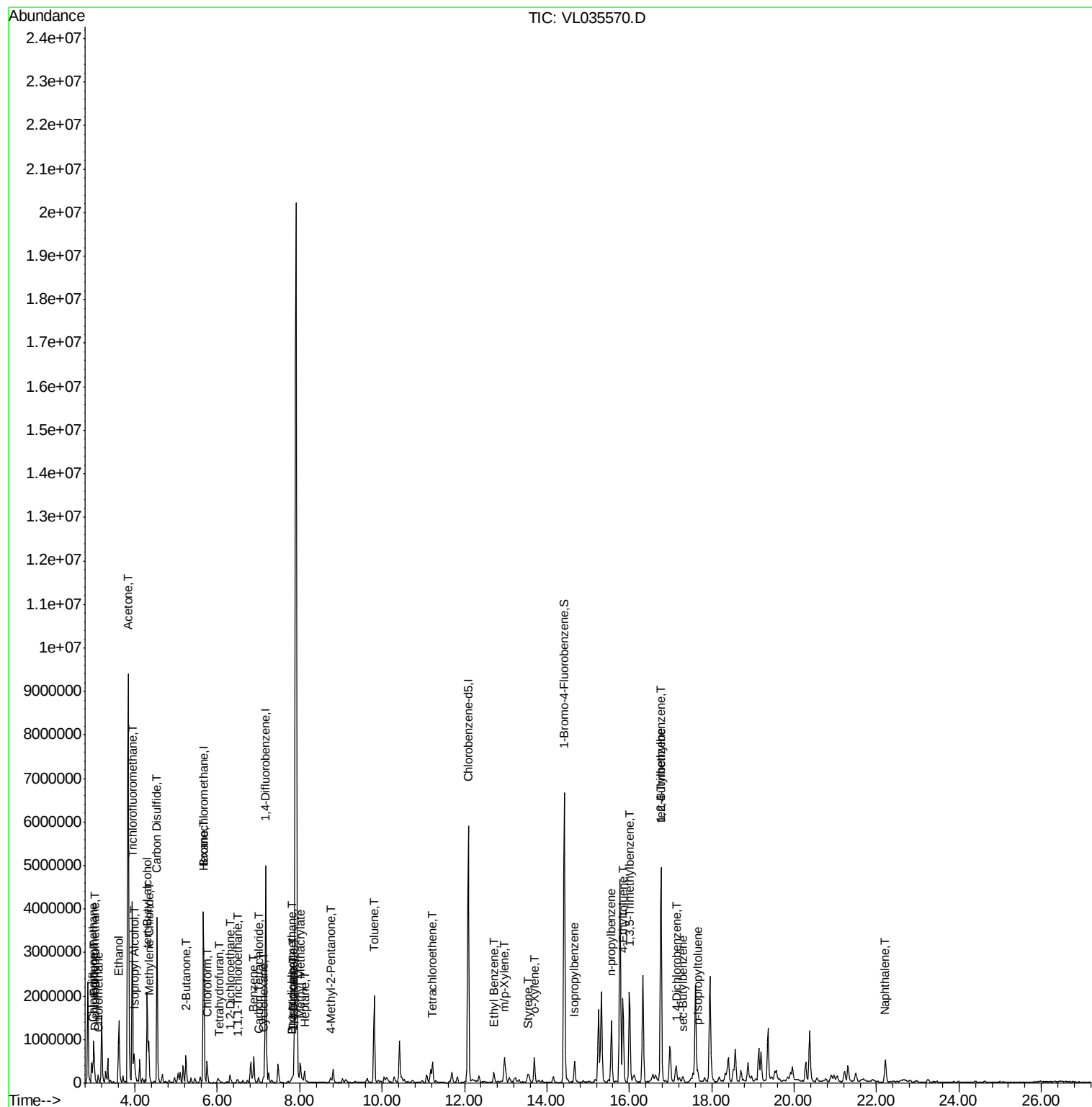
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL090820\
Data File : VL035570.D
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QLast Update : Thu Aug 27 06:46:28 2020
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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 894

Delta R.T. -0.02 min

Lab File: VL035570.D

Acq: 9 Sep 2020 00:27

Instrument :

MSVOA_L

ClientSampled :

SS-7

Tot Ion: 49 Resp: 1051912

Ion Ratio Lower Upper

49 100

128 92.4 50.0 150.1

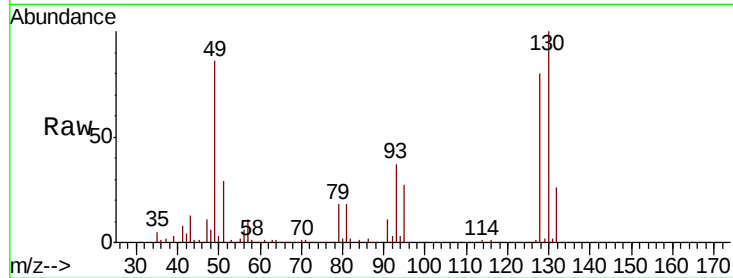
130 118.7 64.4 193.2

Manual Integrations

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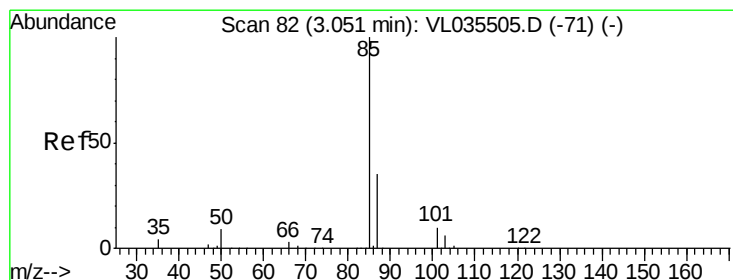
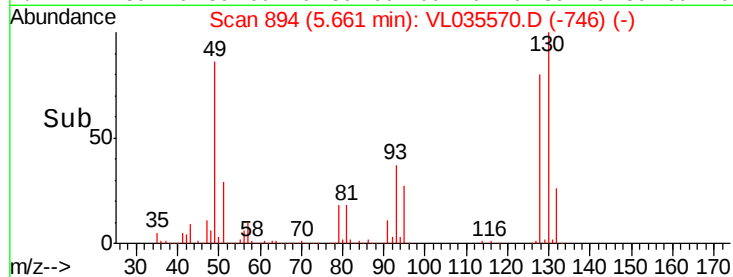
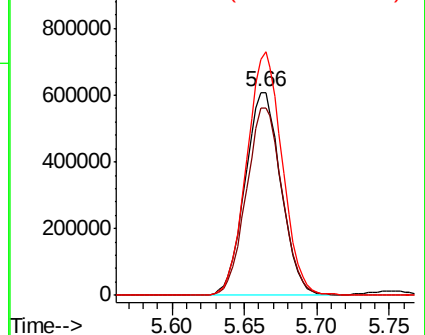
9/10/2020 10:45:35 AM



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: 0.444 ppbv

RT: 3.03 min Scan# 76

Delta R.T. -0.02 min

Lab File: VL035570.D

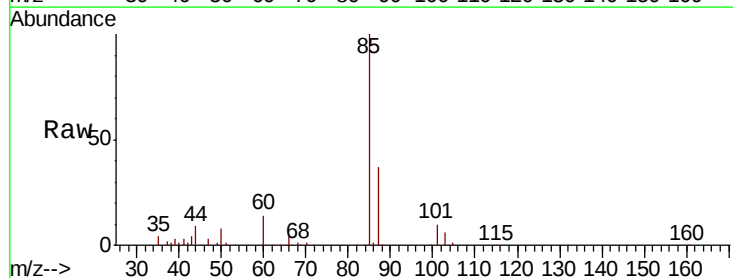
Acq: 9 Sep 2020 00:27

Tgt Ion: 85 Resp: 80871

Ion Ratio Lower Upper

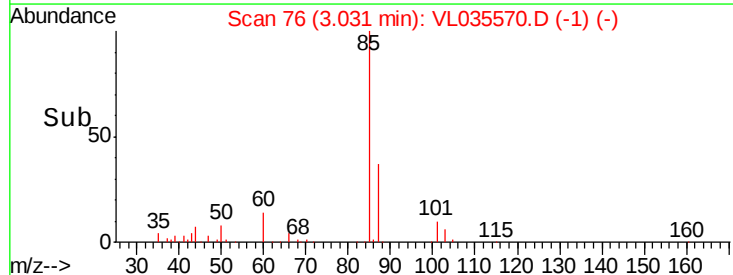
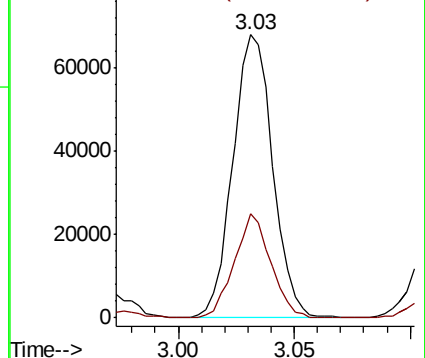
85 100

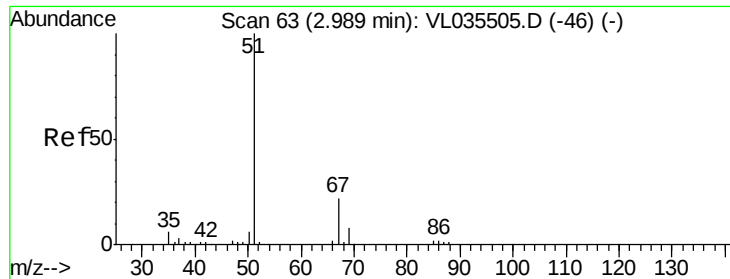
87 36.9 28.0 42.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

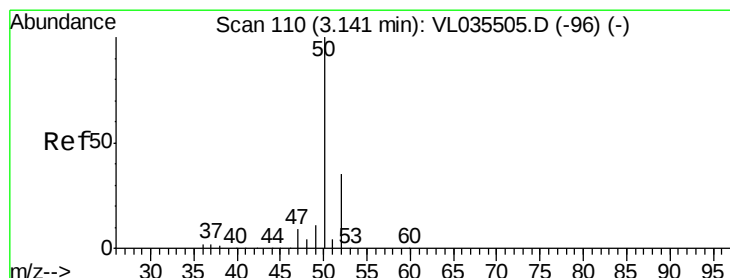
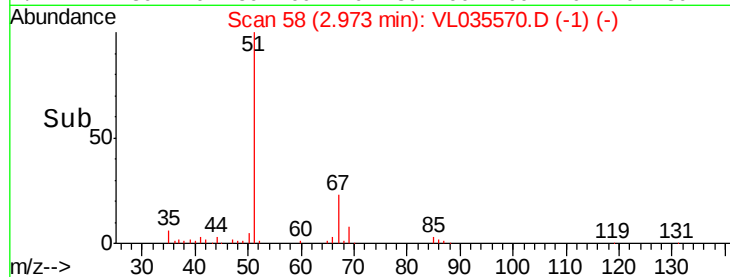
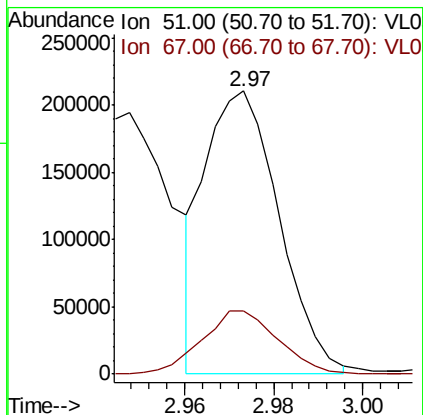
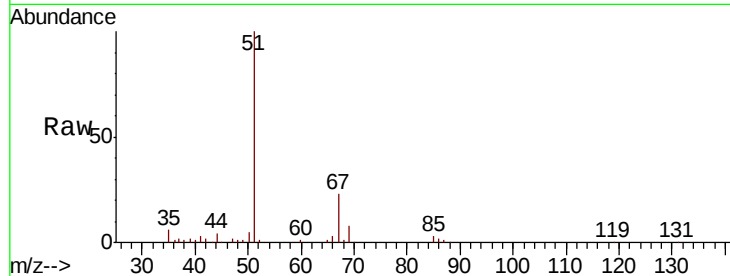
Chlorodifluoromethane
 Concen: 2.083 ppbv
 RT: 2.97 min Scan# 58
 Delta R.T. -0.02 min
 Lab File: VL035570.D
 Acq: 9 Sep 2020 00:27

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-7

Tot Ion	51	Resp	242377
Ion Ratio	Lower	Upper	
51	100		
67	23.5	17.8	26.8

Manual Integrations
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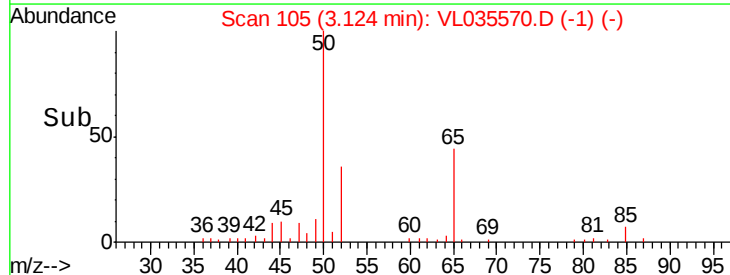
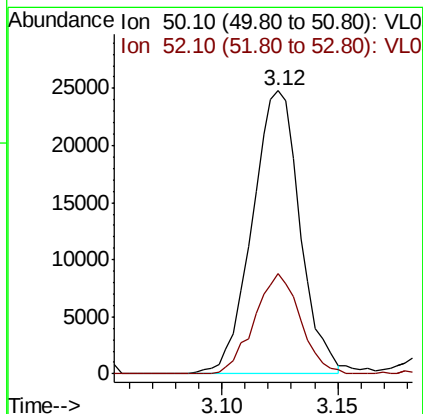
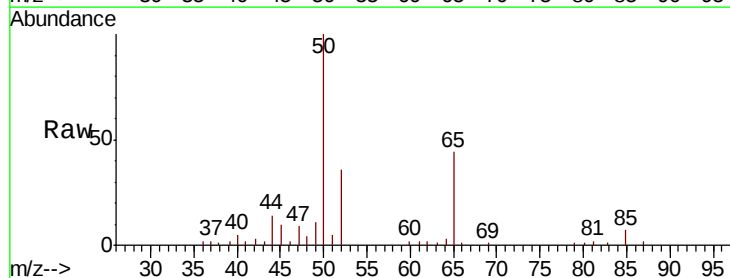
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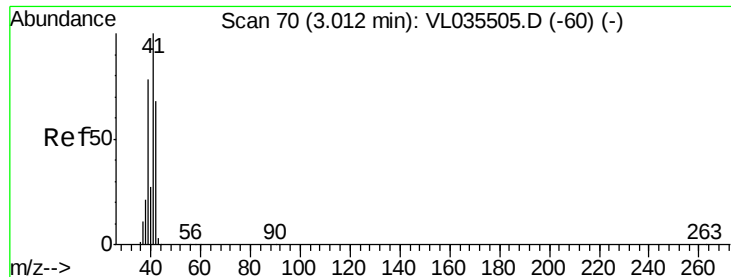


#4

Chloromethane
 Concen: 0.570 ppbv
 RT: 3.12 min Scan# 105
 Delta R.T. -0.02 min
 Lab File: VL035570.D
 Acq: 9 Sep 2020 00:27

Tgt Ion	50	Resp	35497
Ion Ratio	Lower	Upper	
50	100		
52	35.6	27.7	41.5





#9

Propene

Concen: 5.032 ppbv

RT: 3.00 min Scan# 65

Delta R.T. -0.02 min

Lab File: VL035570.D

Acq: 9 Sep 2020 00:27

Instrument :

MSVOA_L

ClientSampled :

SS-7

Tot Ion: 41 Resp: 225679

Ion Ratio Lower Upper

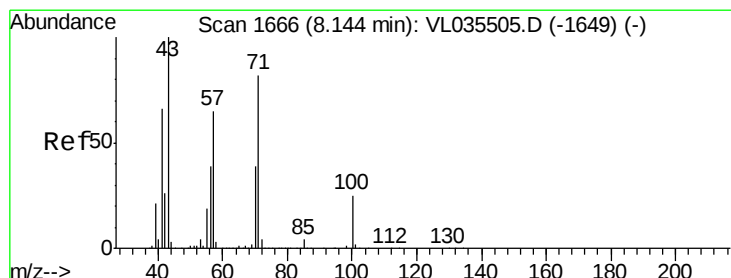
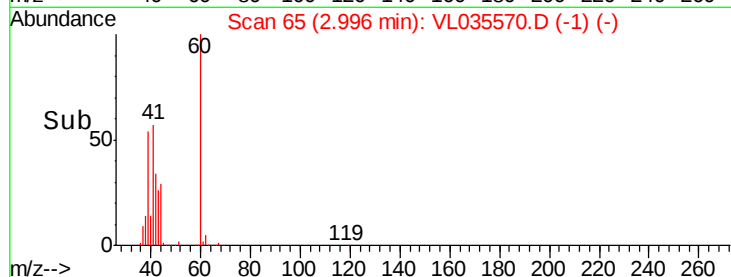
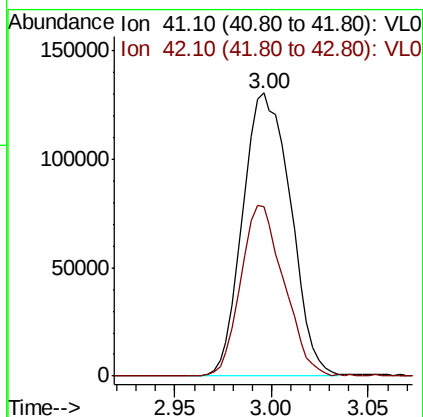
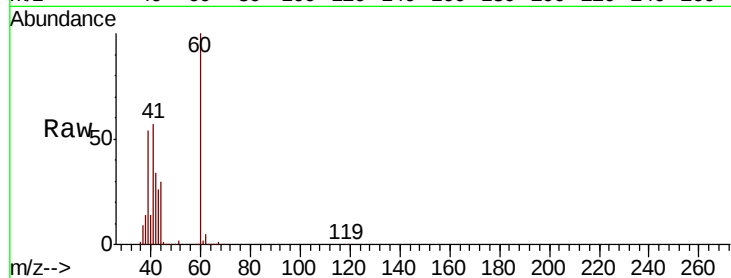
41 100

42 54.8 56.3 84.5#

Manual Integrations
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#10

Heptane

Concen: 0.726 ppbv

RT: 8.11 min Scan# 1657

Delta R.T. -0.03 min

Lab File: VL035570.D

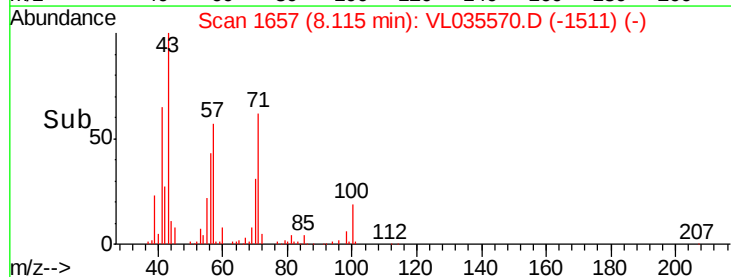
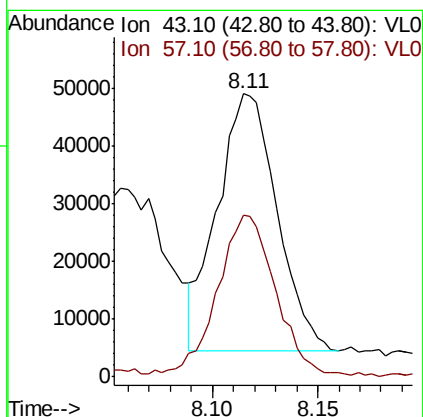
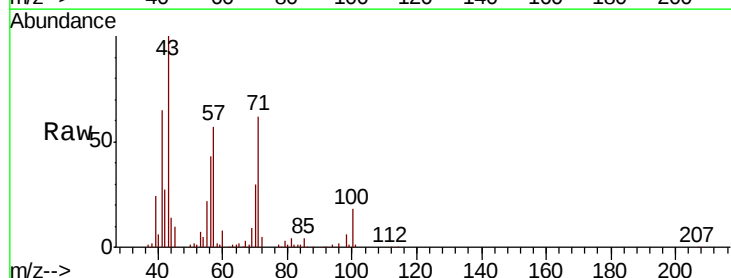
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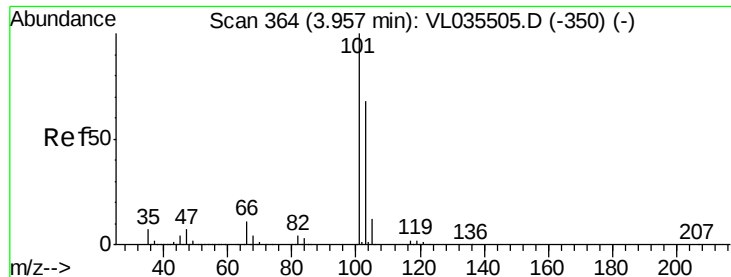
Tgt Ion: 43 Resp: 87426

Ion Ratio Lower Upper

43 100

57 0.0 51.4 77.0#





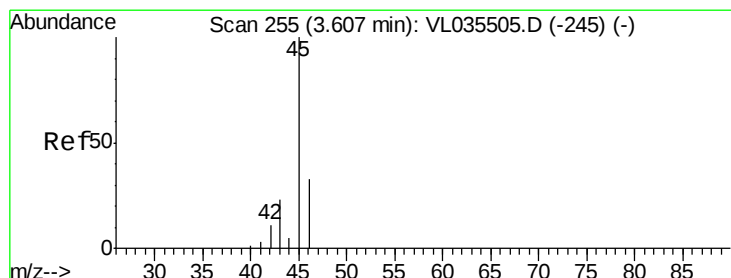
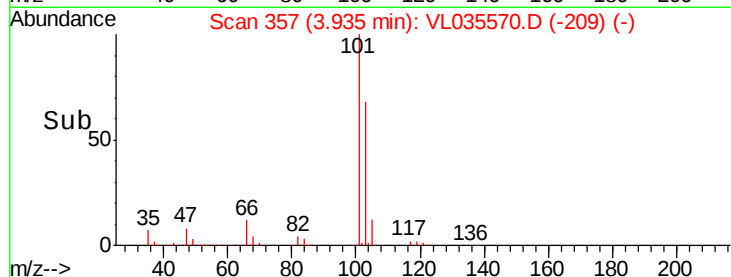
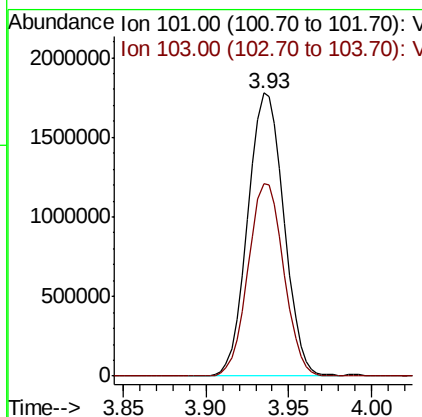
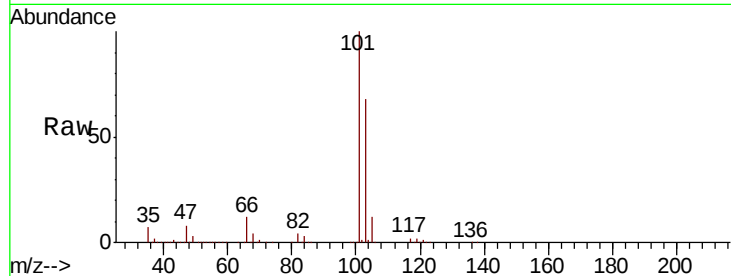
#11
 Trichlorofluoromethane
 Concen: 10.121 ppbv
 RT: 3.93 min Scan# 357
 Delta R.T. -0.02 min
 Lab File: VL035570.D
 Acq: 9 Sep 2020 00:27

Instrument :
 MSVOA_L
 ClientSampled :
 SS-7

Tot Ion:101 Resp: 2690657
 Ion Ratio Lower Upper
 101 100
 103 68.0 54.5 81.7

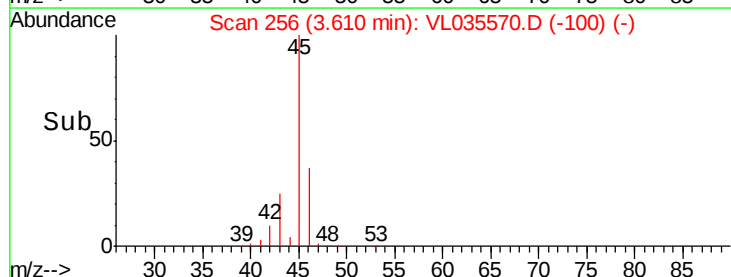
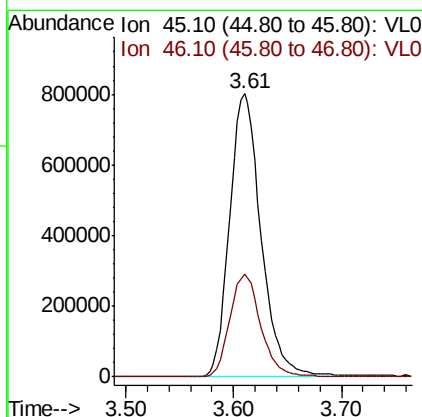
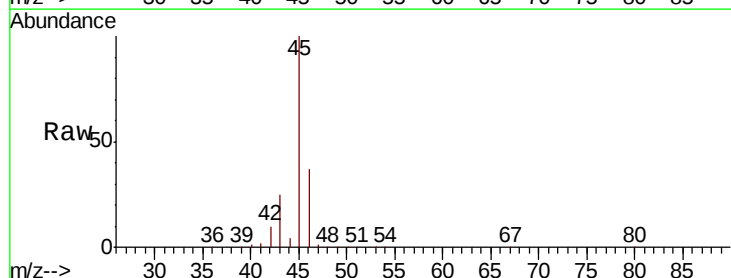
Manual Integrations
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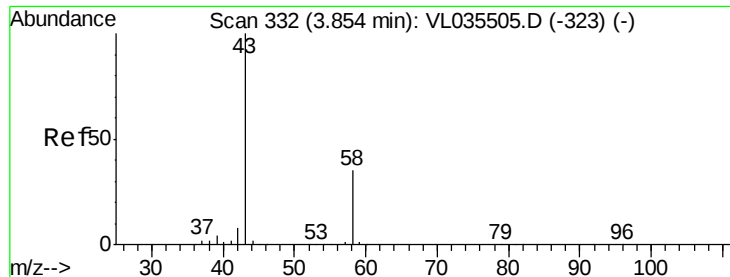
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#13
 Ethanol
 Concen: 146.473 ppbv
 RT: 3.61 min Scan# 256
 Delta R.T. 0.00 min
 Lab File: VL035570.D
 Acq: 9 Sep 2020 00:27

Tgt Ion: 45 Resp: 1628843
 Ion Ratio Lower Upper
 45 100
 46 36.0 15.2 60.6





#15

Acetone

Concen: 78.369 ppbv

RT: 3.83 min Scan# 325

Delta R.T. -0.02 min

Lab File: VL035570.D

Acq: 9 Sep 2020 00:27

Instrument :

MSVOA_L

ClientSampled :

SS-7

Tot Ion: 43 Resp: 9092023

Ion Ratio Lower Upper

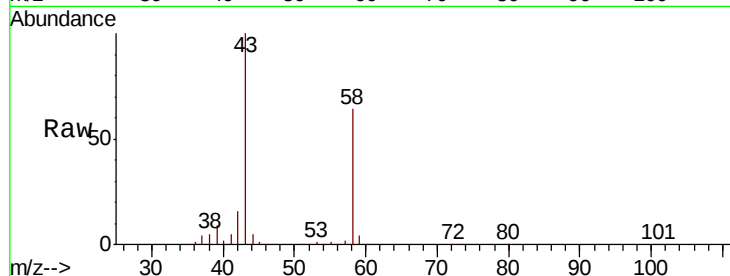
43 100

58 53.3 28.4 42.6#

Manual Integrations
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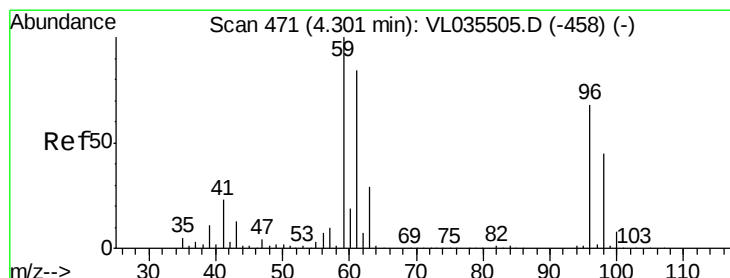
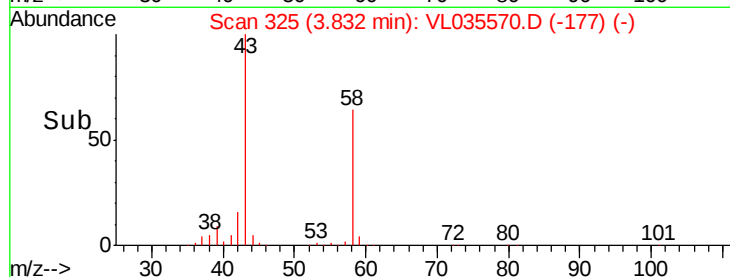
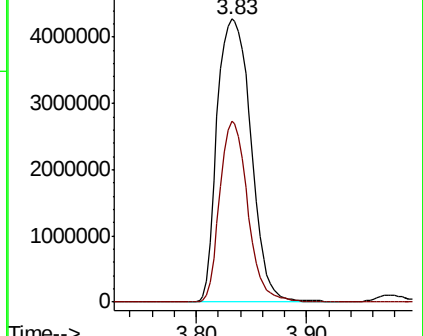
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Abundance Ion 43.10 (42.80 to 43.80): VL0

5000000 Ion 58.10 (57.80 to 58.80): VL0



#17

tert-Butyl alcohol

Concen: 7.154 ppbv

RT: 4.30 min Scan# 470

Delta R.T. -0.00 min

Lab File: VL035570.D

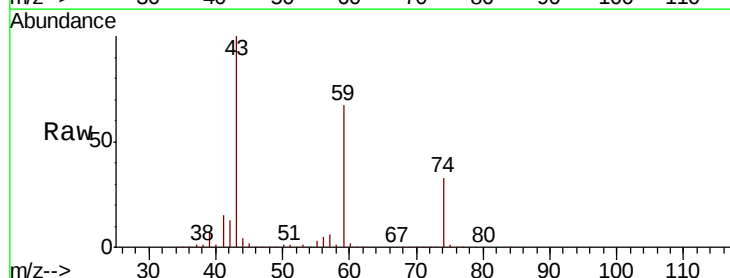
Acq: 9 Sep 2020 00:27

Tgt Ion: 59 Resp: 1010336

Ion Ratio Lower Upper

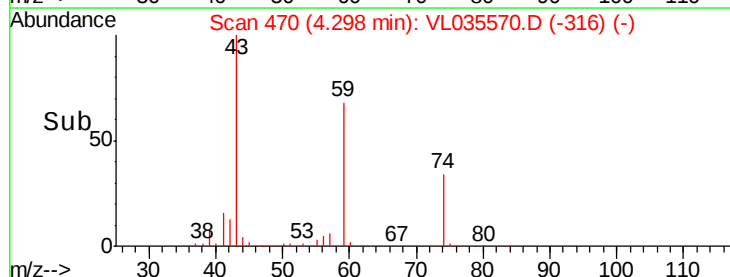
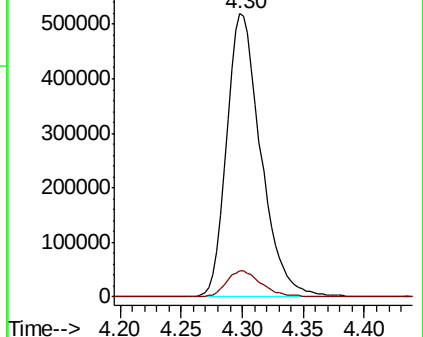
59 100

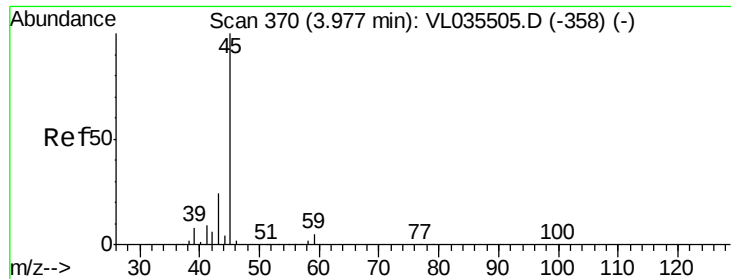
57 9.7 8.4 12.6



Abundance Ion 59.10 (58.80 to 59.80): VL0

600000 Ion 57.10 (56.80 to 57.80): VL0





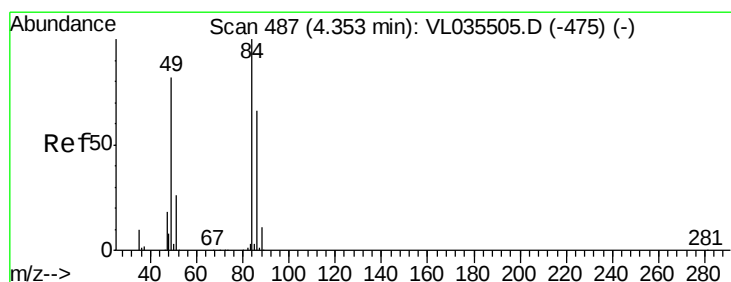
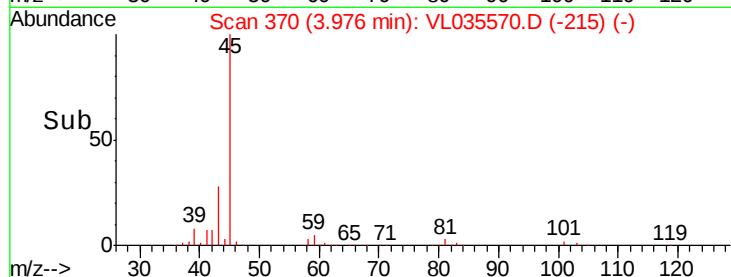
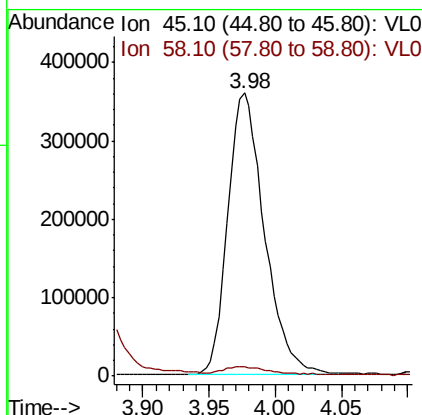
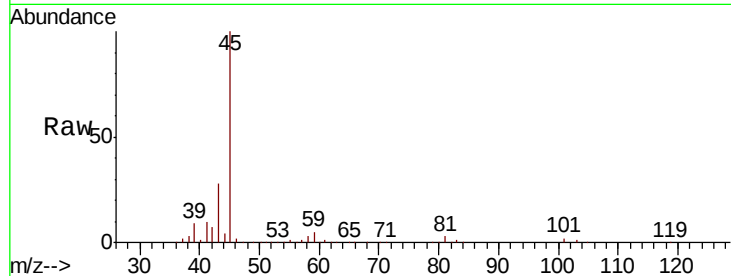
#19
Isopropyl Alcohol
Concen: 10.025 ppbv
RT: 3.98 min Scan# 370
Delta R.T. -0.00 min
Lab File: VL035570.D
Acq: 9 Sep 2020 00:27

Instrument :
MSVOA_L
ClientSampleId :
SS-7

Tot Ion: 45 Resp: 693870
Ion Ratio Lower Upper
45 100
58 0.0 2.0 3.0#

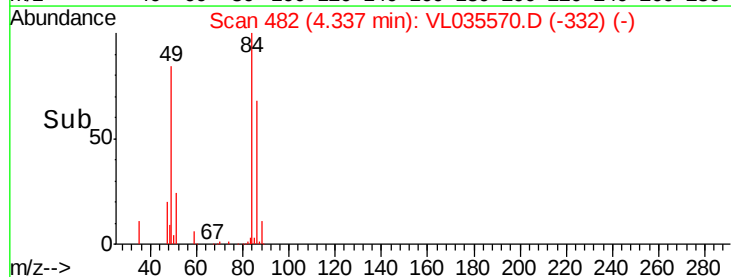
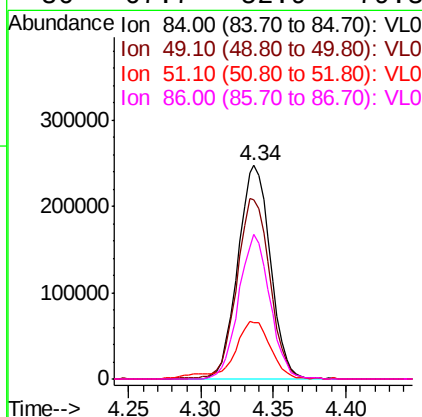
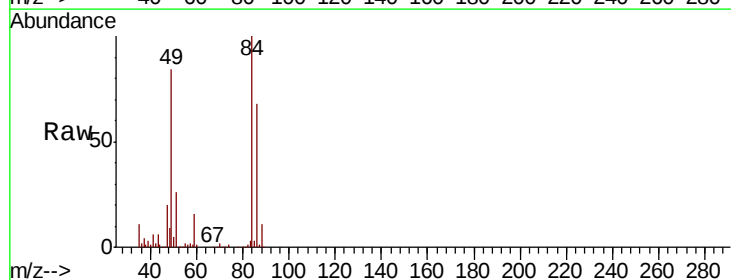
Manual Integrations
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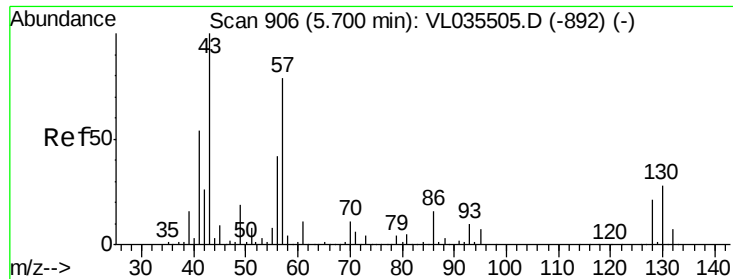
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9/10/2020 10:45:35 AM



#20
Methylene Chloride
Concen: 4.464 ppbv
RT: 4.34 min Scan# 482
Delta R.T. -0.02 min
Lab File: VL035570.D
Acq: 9 Sep 2020 00:27

Tgt Ion: 84 Resp: 385738
Ion Ratio Lower Upper
84 100
49 84.0 65.4 98.0
51 25.9 21.5 32.3
86 67.7 52.9 79.3





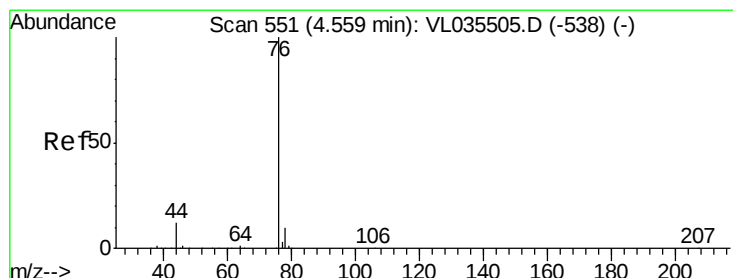
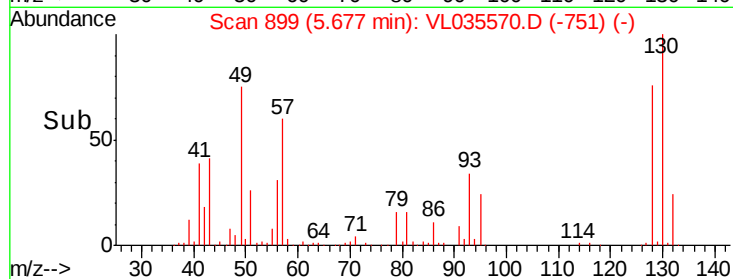
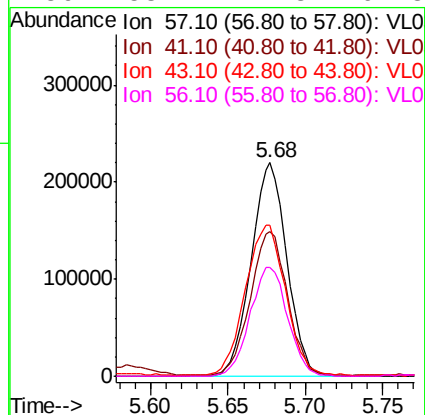
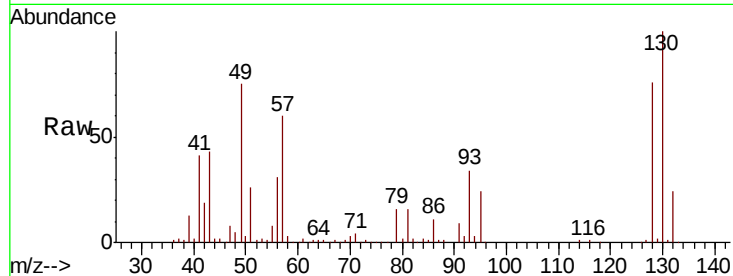
#26
Hexane
Concen: 3.052 ppbv
RT: 5.68 min Scan# 899
Delta R.T. -0.02 min
Lab File: VL035570.D
Acq: 9 Sep 2020 00:27

Instrument :
MSVOA_L
ClientSampled :
SS-7

Tot Ion	Ion	Ratio	Lower	Upper
57	100			
41	70.2	55.9	83.9	
43	79.1	141.8	212.8	
56	53.7	41.8	62.8	

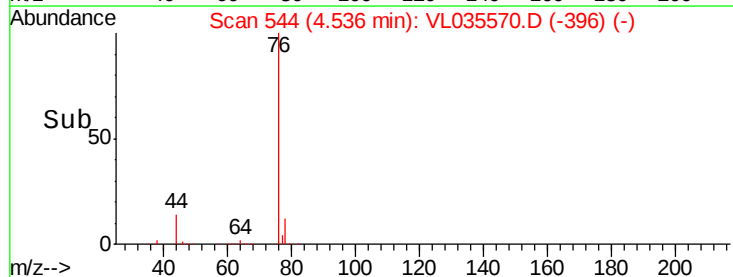
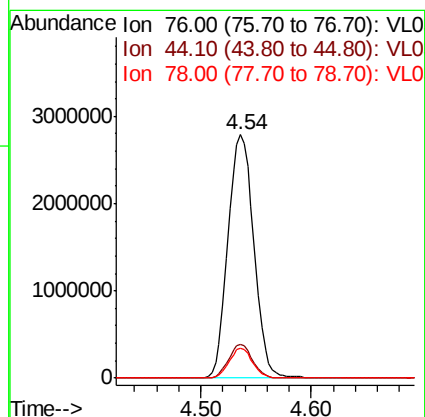
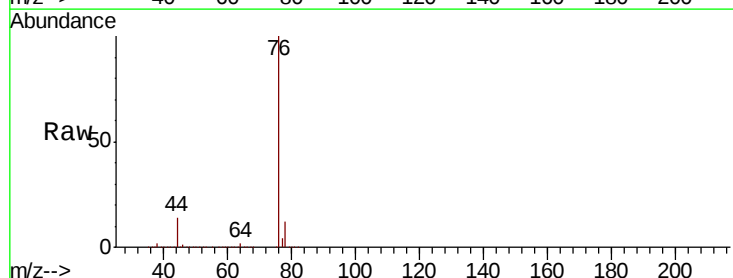
Manual Integrations
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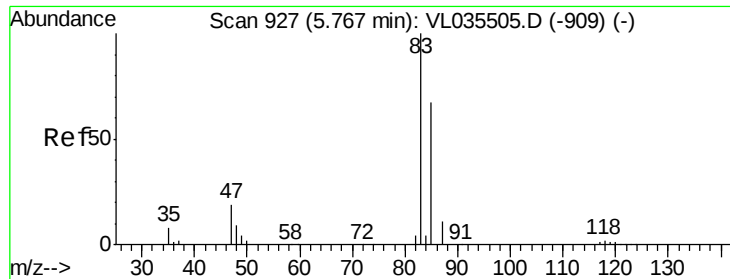
MMDadoda
9/10/2020 10:45:35 AM



#27
Carbon Disulfide
Concen: 27.330 ppbv
RT: 4.54 min Scan# 544
Delta R.T. -0.02 min
Lab File: VL035570.D
Acq: 9 Sep 2020 00:27

Tgt Ion	Ion	Ratio	Lower	Upper
76	100			
44	12.6	9.3	13.9	
78	11.2	7.8	11.6	





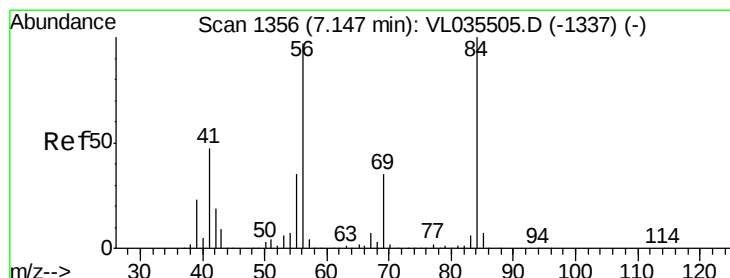
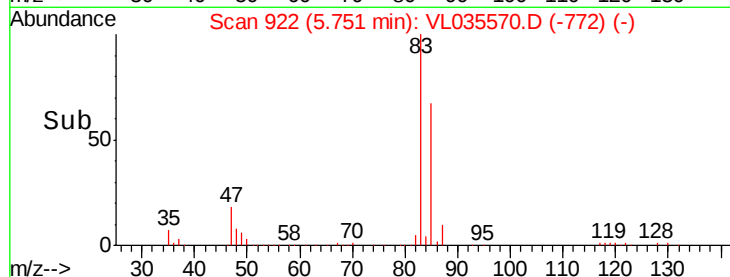
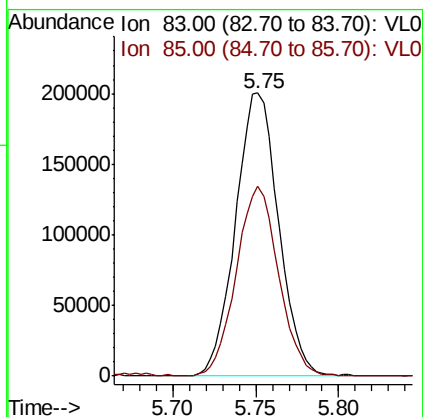
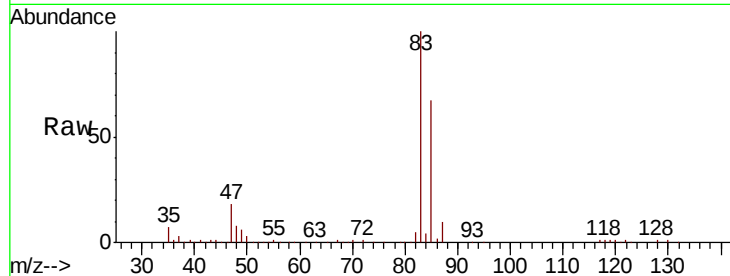
#29
Chloroform
Concen: 1.521 ppbv
RT: 5.75 min Scan# 922
Delta R.T. -0.02 min
Lab File: VL035570.D
Acq: 9 Sep 2020 00:27

Instrument :
MSVOA_L
ClientSampled :
SS-7

Tot Ion: 83 Resp: 359910
Ion Ratio Lower Upper
83 100
85 67.0 53.9 80.9

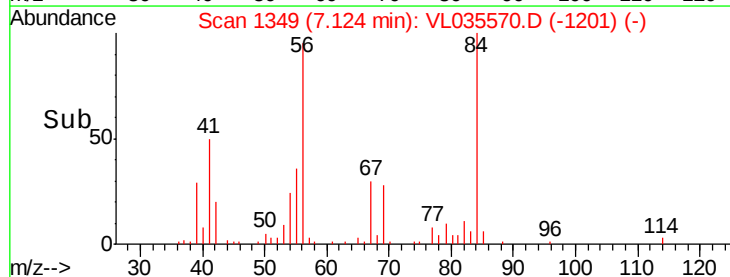
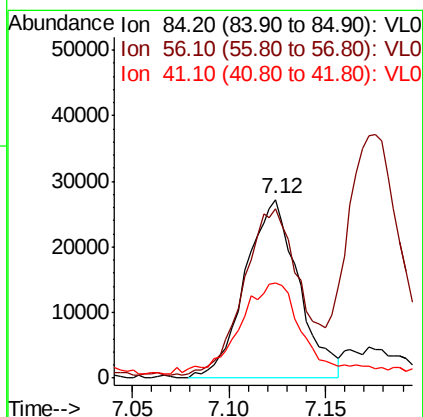
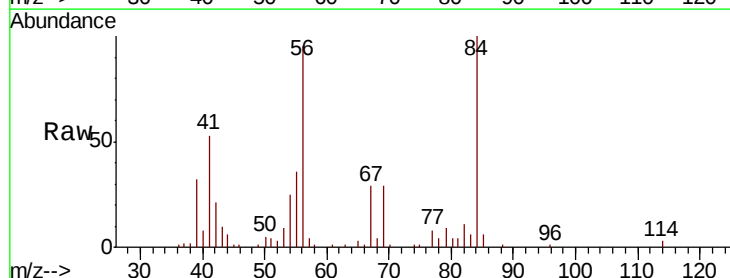
Manual Integrations
APPROVED

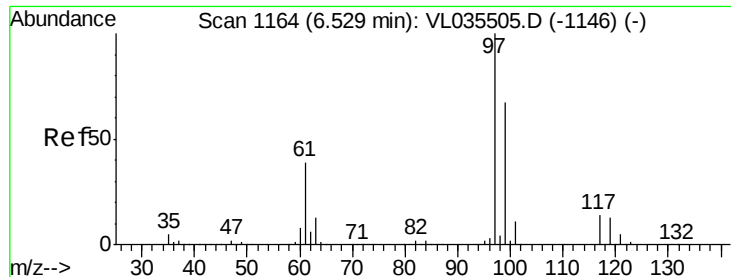
MMDadoda
9/10/2020 10:45:35 AM



#30
Cyclohexane
Concen: 0.420 ppbv
RT: 7.12 min Scan# 1349
Delta R.T. -0.02 min
Lab File: VL035570.D
Acq: 9 Sep 2020 00:27

Tgt Ion: 84 Resp: 52295
Ion Ratio Lower Upper
84 100
56 98.5 80.1 120.1
41 60.7 38.1 57.1#





#32

1,1,1-Trichloroethane

Concen: 0.047 ppbv

RT: 6.51 min Scan# 1158

Delta R.T. -0.02 min

Lab File: VL035570.D

Acq: 9 Sep 2020 00:27

Instrument :

MSVOA_L

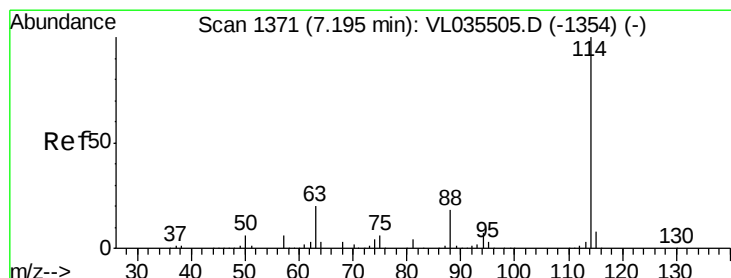
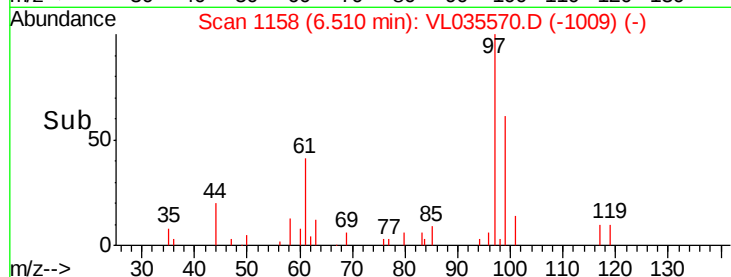
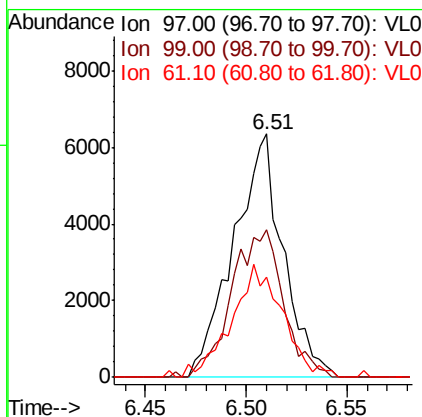
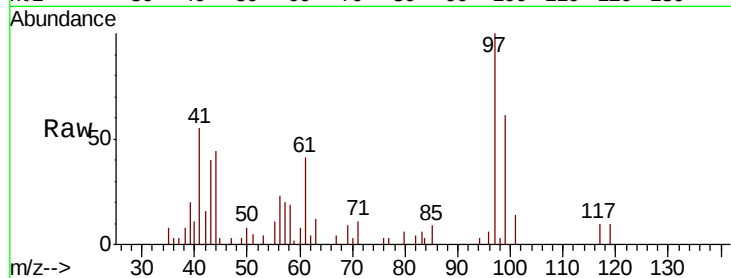
ClientSampled :

SS-7

Tot Ion:	97	Resp:	10880
Ion Ratio	Lower	Upper	
97	100		
99	63.5	53.3	79.9
61	47.8	30.6	46.0

Manual Integrations
APPROVED

MMDadoda
9/10/2020 10:45:35 AM



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

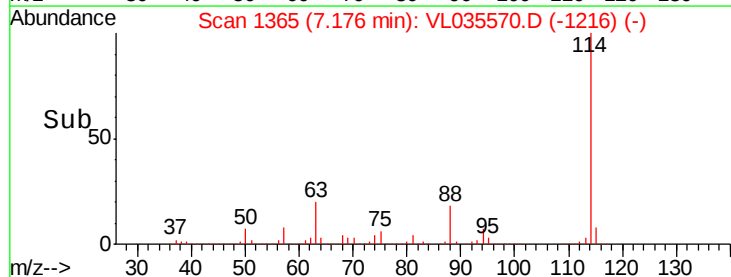
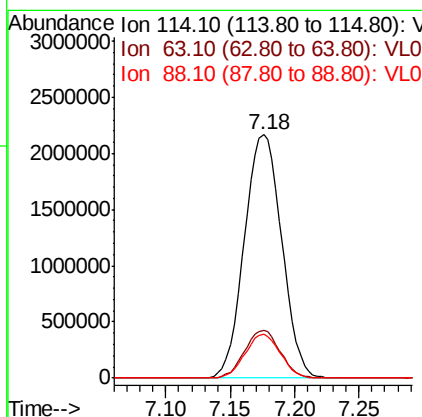
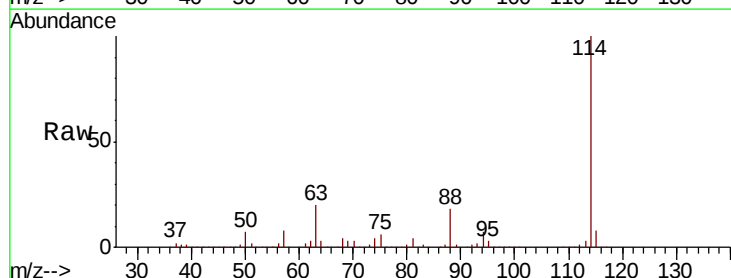
RT: 7.18 min Scan# 1365

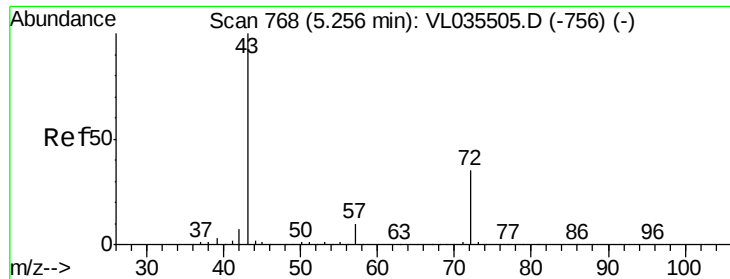
Delta R.T. -0.02 min

Lab File: VL035570.D

Acq: 9 Sep 2020 00:27

Tgt Ion:	114	Resp:	4383549
Ion Ratio	Lower	Upper	
114	100		
63	18.9	14.7	22.1
88	17.0	13.4	20.2





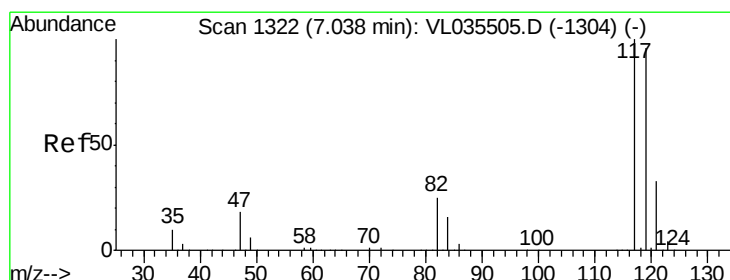
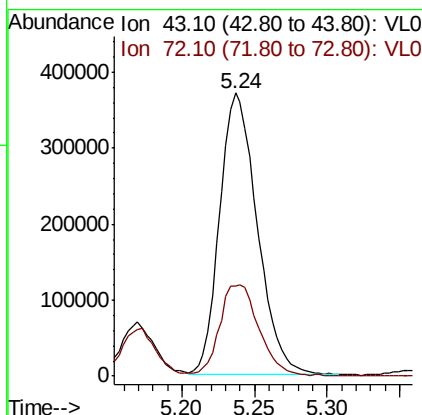
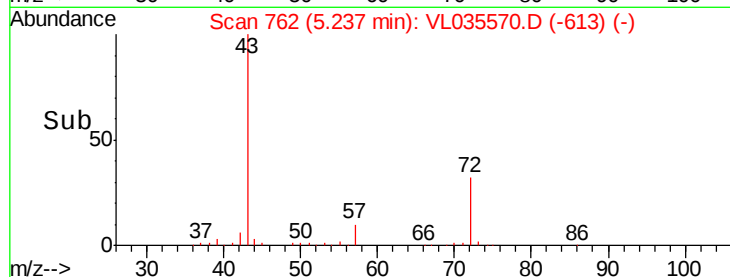
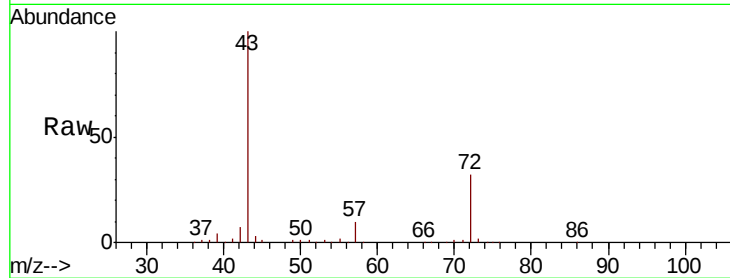
#34
2-Butanone
Concen: 5.146 ppbv
RT: 5.24 min Scan# 762
Delta R.T. -0.02 min
Lab File: VL035570.D
Acq: 9 Sep 2020 00:27

Instrument :
MSVOA_L
ClientSampleId :
SS-7

Tot Ion: 43 Resp: 669505
Ion Ratio Lower Upper
43 100
72 33.8 27.7 41.5

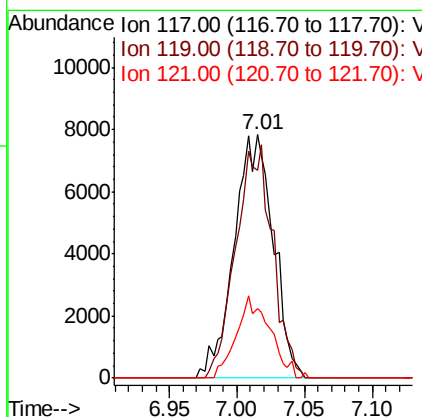
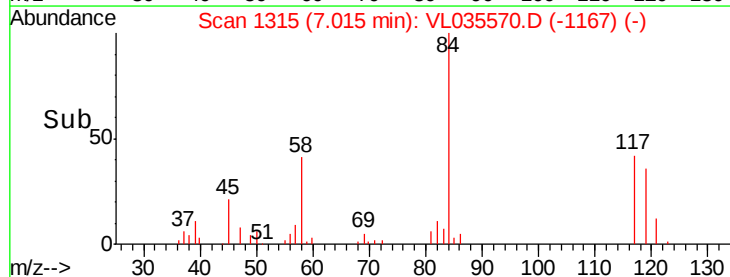
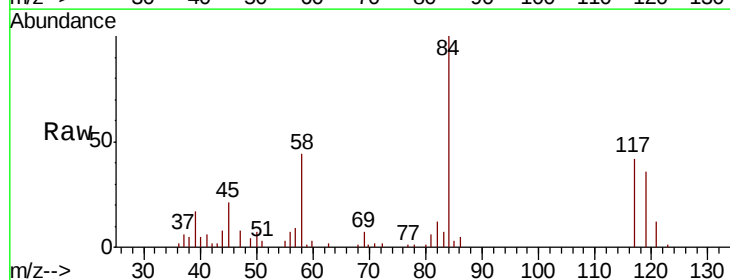
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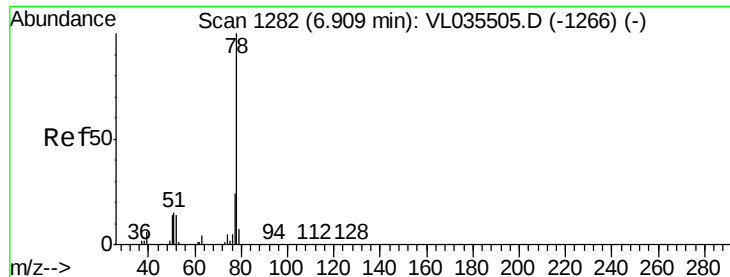
MMDadoda
9/10/2020 10:45:35 AM



#35
Carbon Tetrachloride
Concen: 0.071 ppbv m
RT: 7.01 min Scan# 1315
Delta R.T. -0.02 min
Lab File: VL035570.D
Acq: 9 Sep 2020 00:27

Tgt Ion: 117 Resp: 15717
Ion Ratio Lower Upper
117 100
119 85.3 77.2 115.8
121 28.7 26.1 39.1





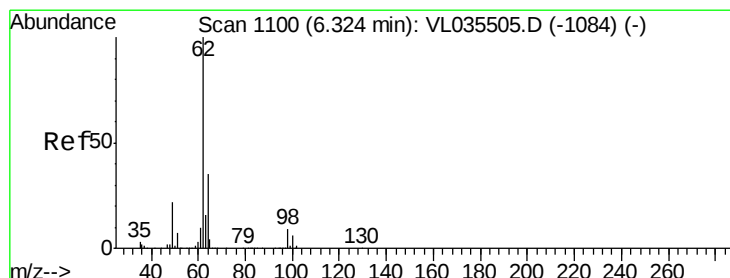
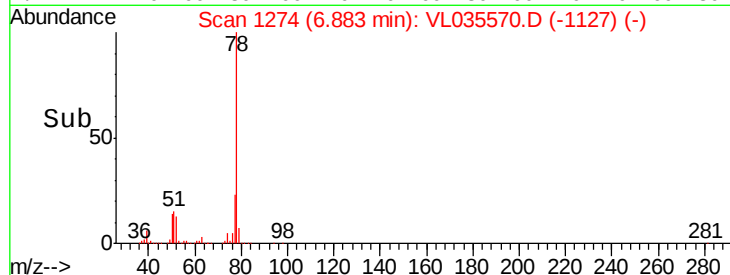
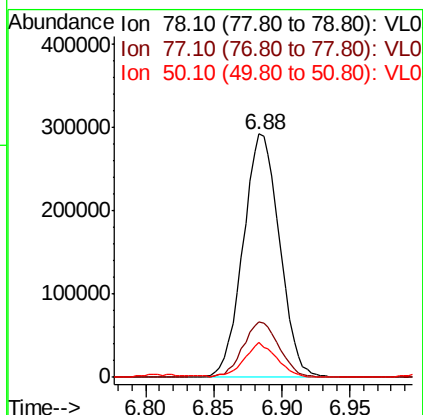
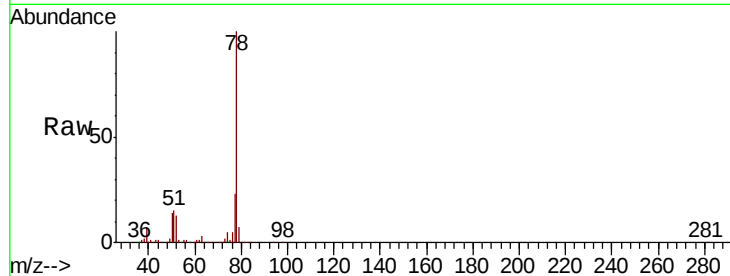
#36
Benzene
Concen: 1.900 ppbv
RT: 6.88 min Scan# 1274
Delta R.T. -0.03 min
Lab File: VL035570.D
Acq: 9 Sep 2020 00:27

Instrument :
MSVOA_L
ClientSampleId :
SS-7

Tot Ion	Ratio	Lower	Upper
78	100		
77	22.7	19.3	28.9
50	14.2	11.0	16.6

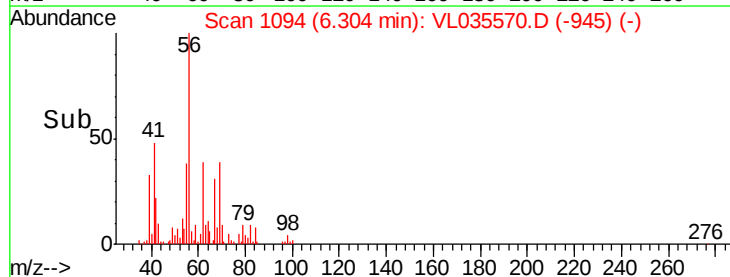
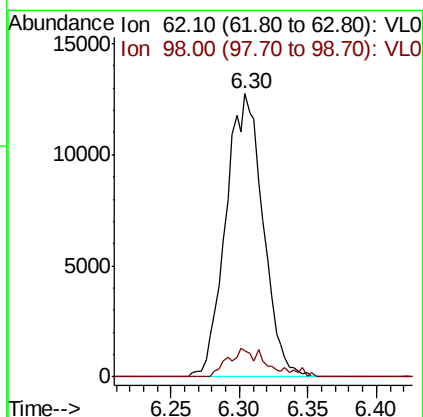
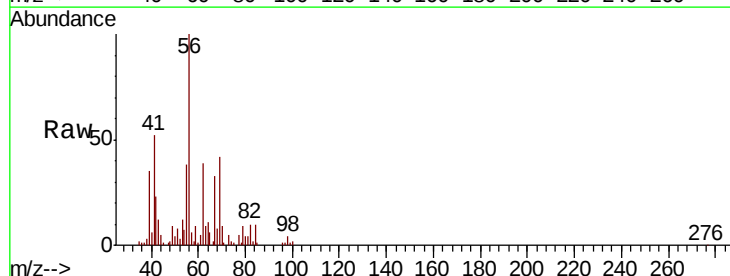
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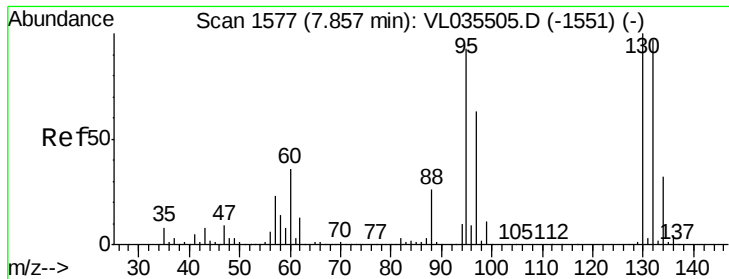
MMDadoda
9/10/2020 10:45:35 AM



#37
1,2-Dichloroethane
Concen: 0.178 ppbv m
RT: 6.30 min Scan# 1094
Delta R.T. -0.02 min
Lab File: VL035570.D
Acq: 9 Sep 2020 00:27

Tgt Ion	Ratio	Lower	Upper
62	100		
98	10.5	7.4	11.0





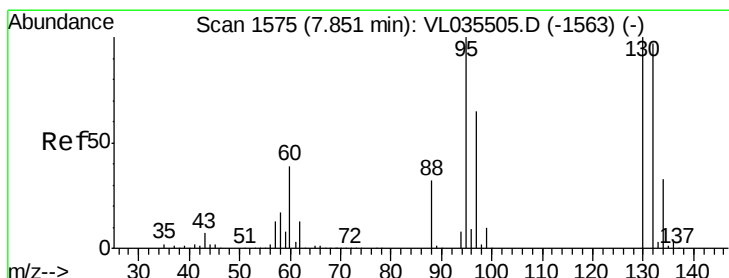
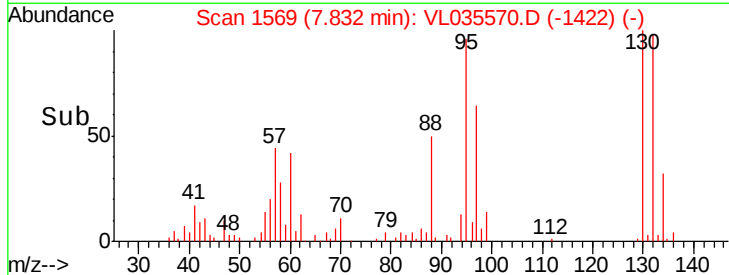
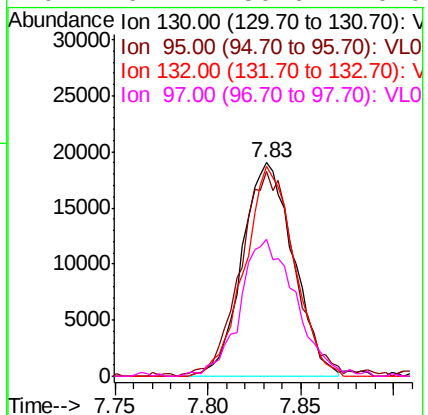
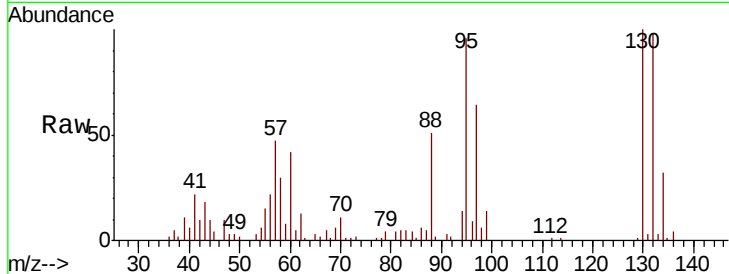
#38
 Trichloroethene
 Concen: 0.223 ppbv
 RT: 7.83 min Scan# 1569
 Delta R.T. -0.03 min
 Lab File: VL035570.D
 Acq: 9 Sep 2020 00:27

Instrument :
 MSVOA_L
 ClientSampled :
 SS-7

Tot Ion:	130	Resp:	36828
Ion	Ratio	Lower	Upper
130	100		
95	94.5	74.6	112.0
132	98.4	77.6	116.4
97	62.4	50.6	76.0

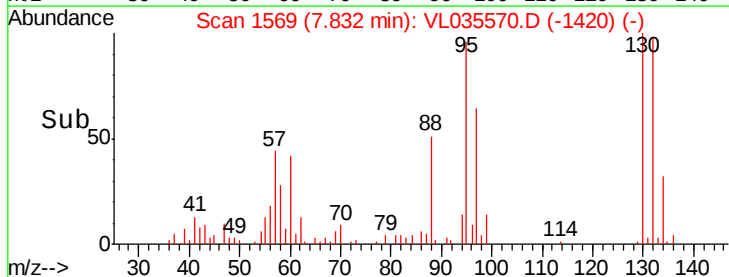
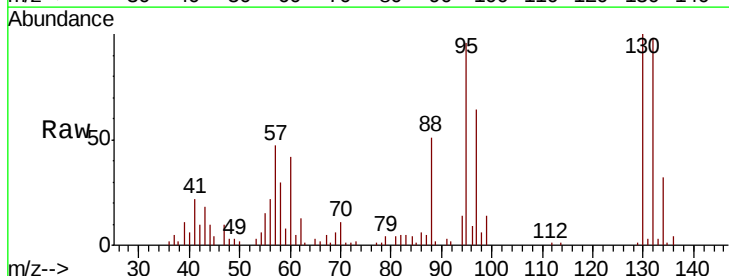
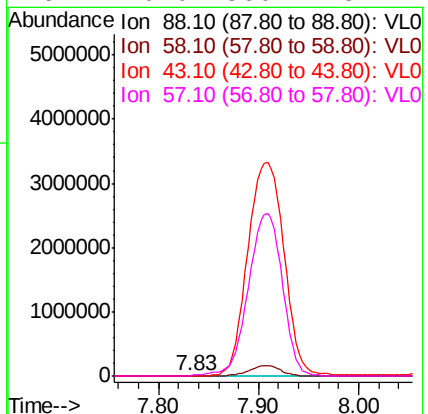
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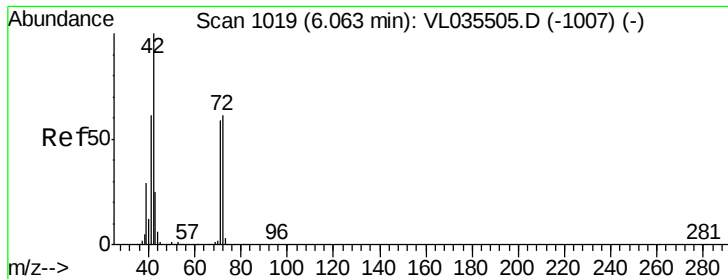
MMDadoda
 9/10/2020 10:45:35 AM



#40
 1,4-Dioxane
 Concen: 0.386 ppbv m
 RT: 7.83 min Scan# 1569
 Delta R.T. -0.02 min
 Lab File: VL035570.D
 Acq: 9 Sep 2020 00:27

Tgt Ion:	88	Resp:	18464
Ion	Ratio	Lower	Upper
88	100		
58	0.0	68.7	103.1#
43	0.0	104.3	156.5#
57	0.0	560.7	841.1#





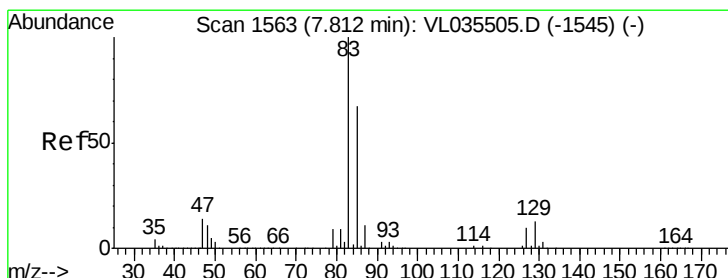
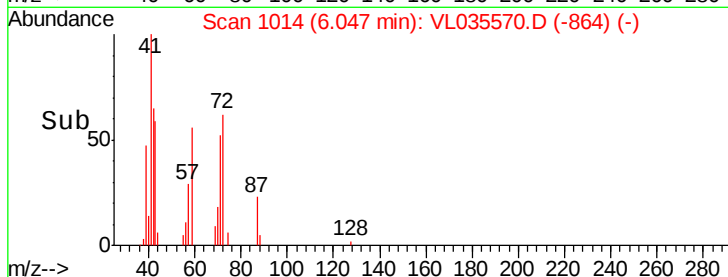
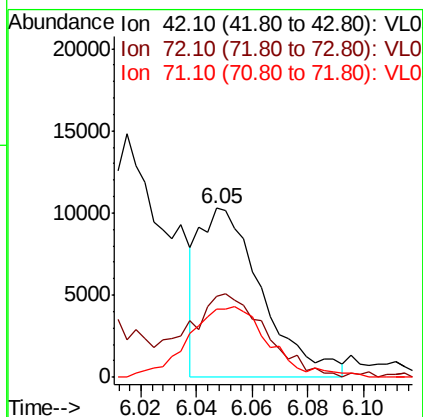
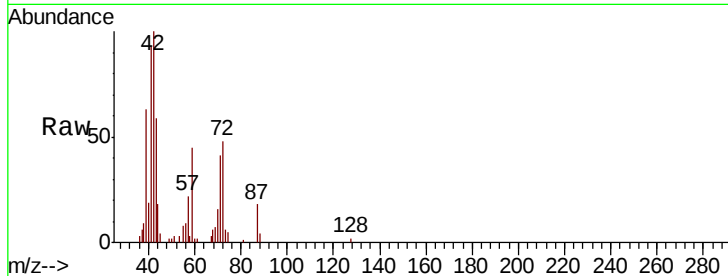
#41
Tetrahydrofuran
Concen: 0.234 ppbv m
RT: 6.05 min Scan# 1014
Delta R.T. -0.02 min
Lab File: VL035570.D
Acq: 9 Sep 2020 00:27

Instrument :
MSVOA_L
ClientSampled :
SS-7

Tot Ion	Ratio	Lower	Upper
42	100		
72	66.1	48.6	73.0
71	53.5	46.1	69.1

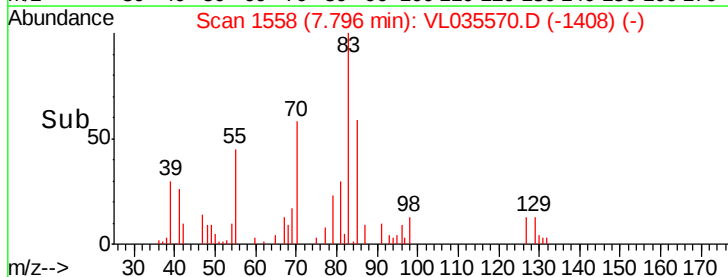
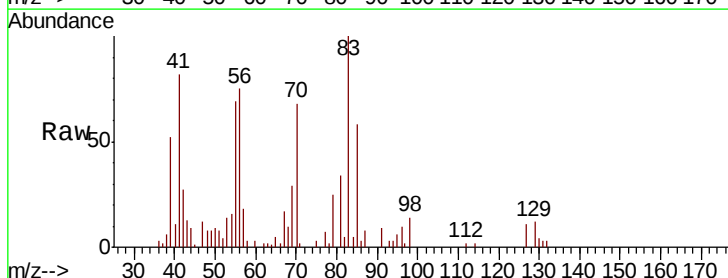
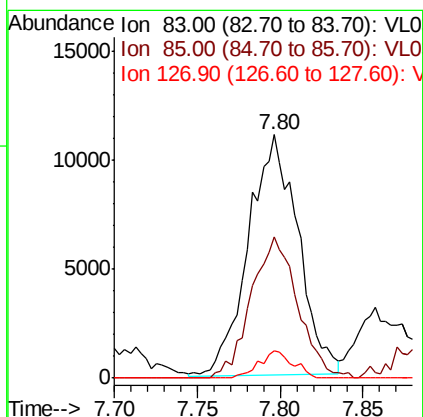
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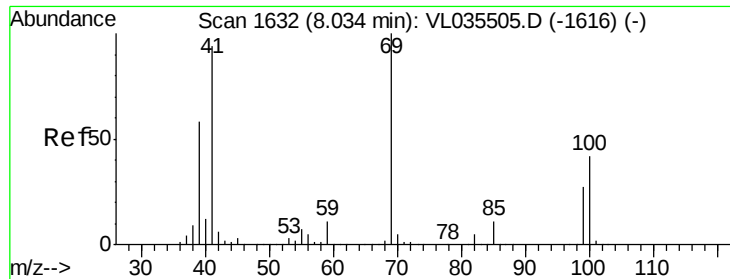
MMDadoda
9/10/2020 10:45:35 AM



#42
Bromodichloromethane
Concen: 0.105 ppbv
RT: 7.80 min Scan# 1558
Delta R.T. -0.02 min
Lab File: VL035570.D
Acq: 9 Sep 2020 00:27

Tgt Ion	Ratio	Lower	Upper
83	100		
85	59.0	53.7	80.5
127	11.7	8.1	12.1





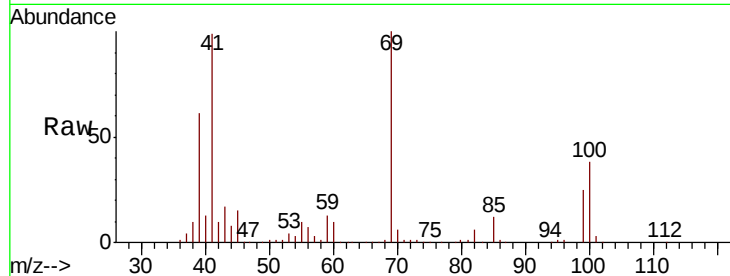
#43
Methyl Methacrylate
Concen: 1.596 ppbv
RT: 8.01 min Scan# 1626
Delta R.T. -0.02 min
Lab File: VL035570.D
Acq: 9 Sep 2020 00:27

Instrument :
MSVOA_L
ClientSampled :
SS-7

Tot Ion	Ratio	Lower	Upper
69	100		
41	0.0	76.6	114.8#
100	38.8	33.8	50.6

Manual Integrations
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MMDadoda
9/10/2020 10:45:35 AM

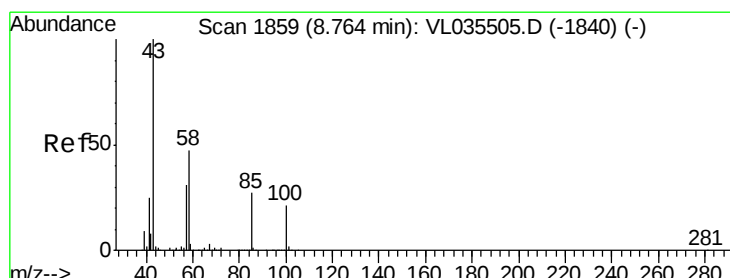
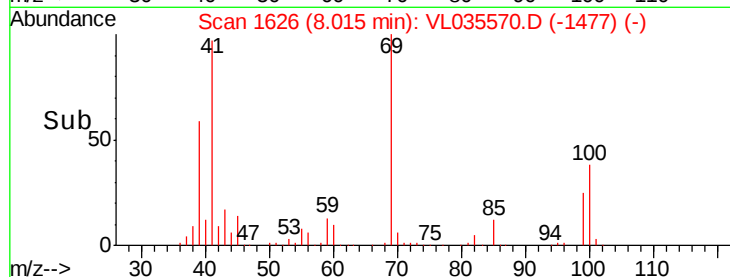
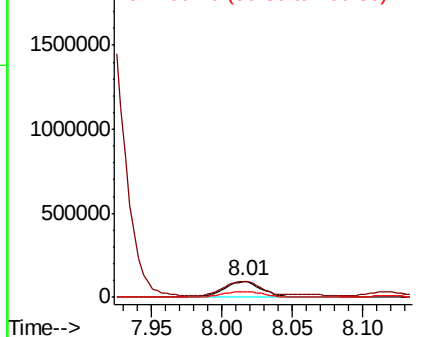


Abundance

Ion 69.10 (68.80 to 69.80): VL0

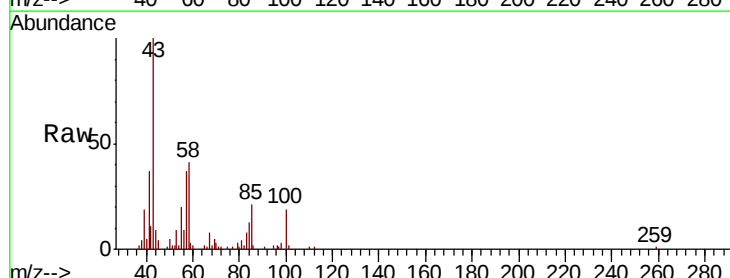
Ion 41.10 (40.80 to 41.80): VL0

Ion 100.10 (99.80 to 100.80): VL0



#50
4-Methyl-2-Pentanone
Concen: 0.354 ppbv
RT: 8.75 min Scan# 1854
Delta R.T. -0.02 min
Lab File: VL035570.D
Acq: 9 Sep 2020 00:27

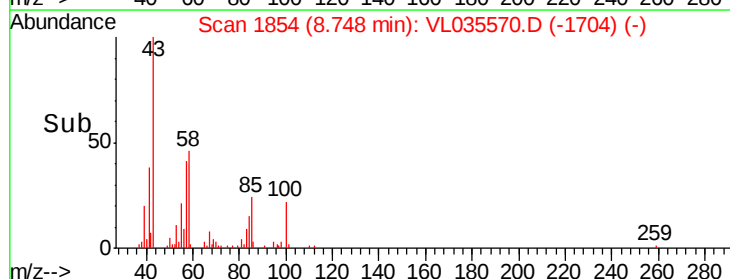
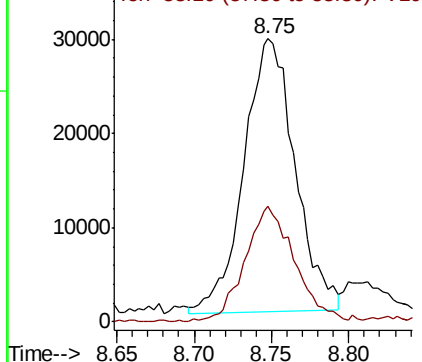
Tgt Ion	Ratio	Lower	Upper
43	100		
58	41.9	37.4	56.0

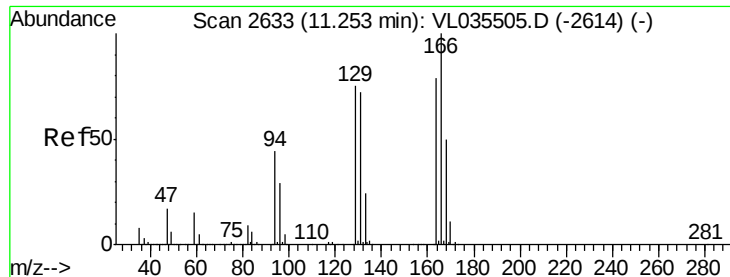


Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#52

Tetrachloroethene

Concen: 0.746 ppbv

RT: 11.22 min Scan# 2624

Delta R.T. -0.03 min

Lab File: VL035570.D

Acq: 9 Sep 2020 00:27

Instrument :

MSVOA_L

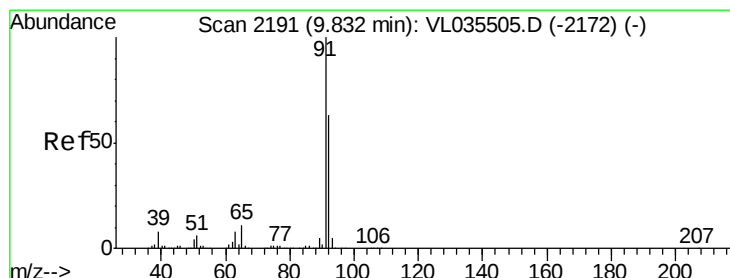
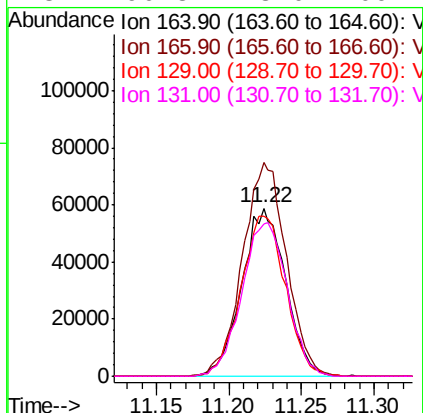
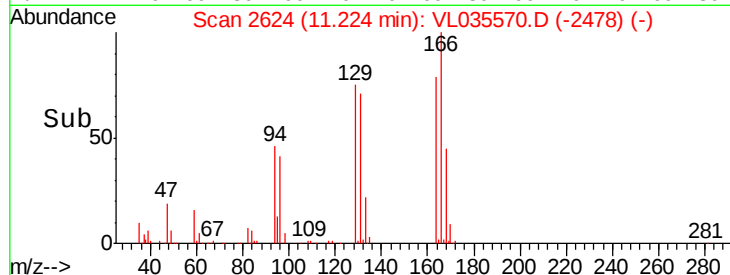
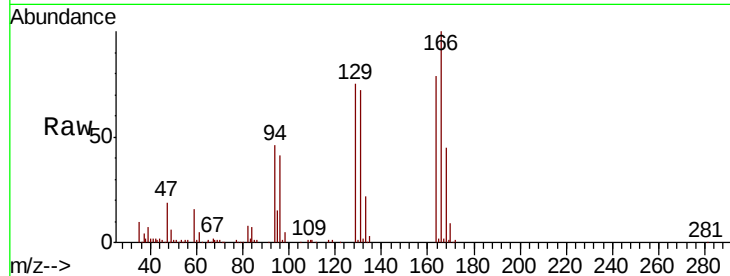
ClientSampled :

SS-7

Tot Ion:	164	Resp:	123580
Ion	Ratio	Lower	Upper
164	100		
166	126.7	100.9	151.3
129	94.6	75.3	112.9
131	90.8	73.0	109.4

Manual Integrations
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#53

Toluene

Concen: 4.768 ppbv

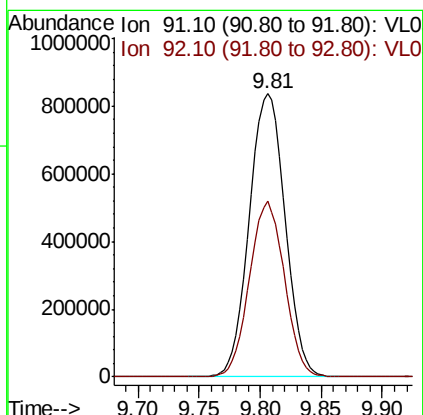
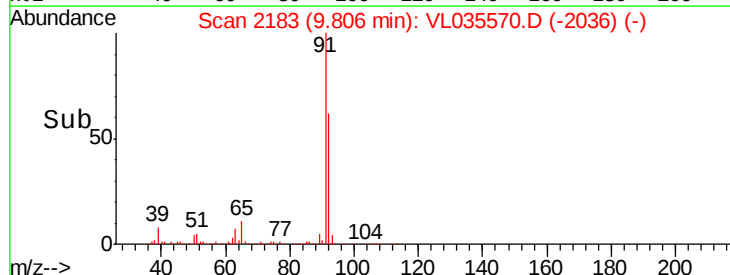
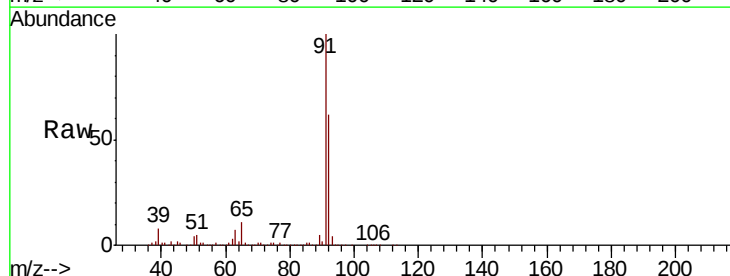
RT: 9.81 min Scan# 2183

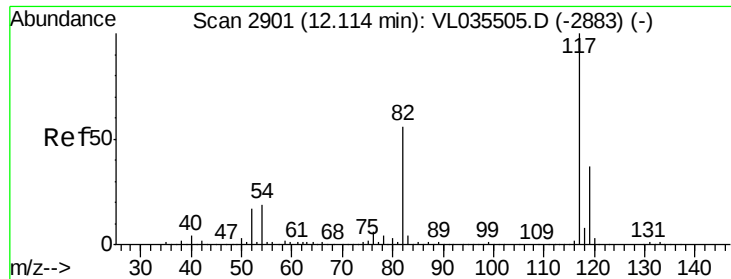
Delta R.T. -0.03 min

Lab File: VL035570.D

Acq: 9 Sep 2020 00:27

Tgt Ion:	91	Resp:	1701487
Ion	Ratio	Lower	Upper
91	100		
92	60.5	49.8	74.8





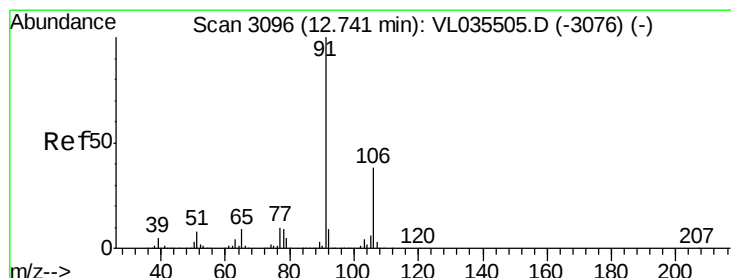
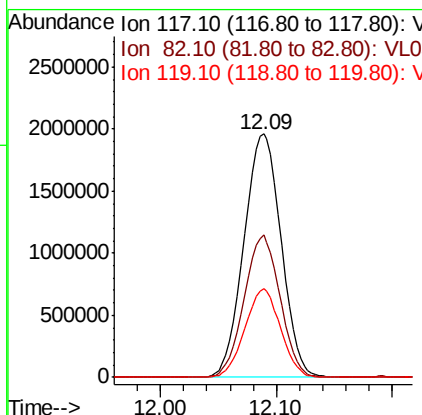
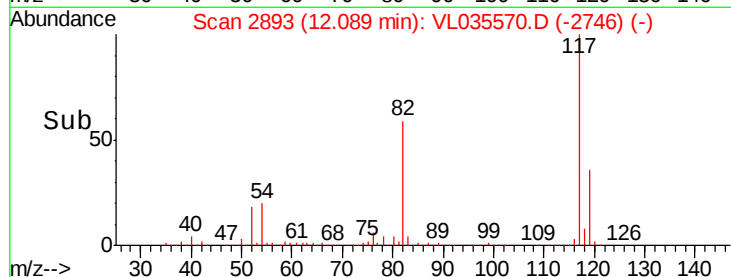
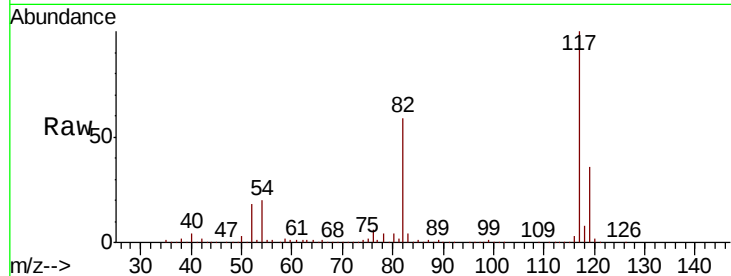
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.09 min Scan# 2893
Delta R.T. -0.03 min
Lab File: VL035570.D
Acq: 9 Sep 2020 00:27

Instrument :
MSVOA_L
ClientSampled :
SS-7

Tot Ion:117 Resp: 4380083
Ion Ratio Lower Upper
117 100
82 56.5 41.6 62.4
119 34.9 29.3 43.9

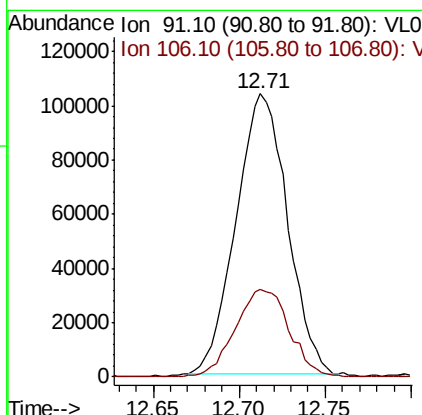
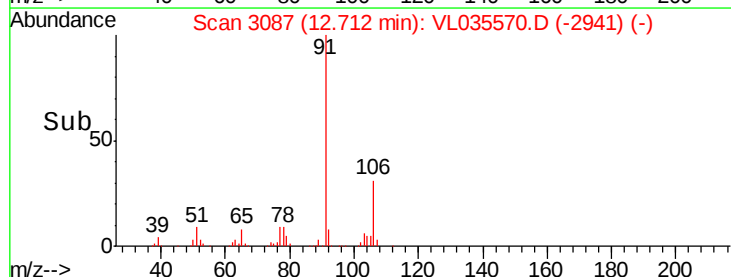
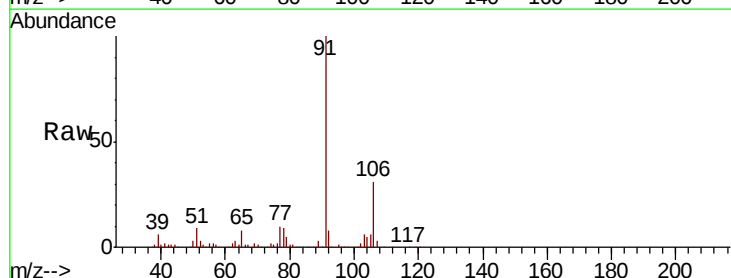
Manual Integrations
APPROVED

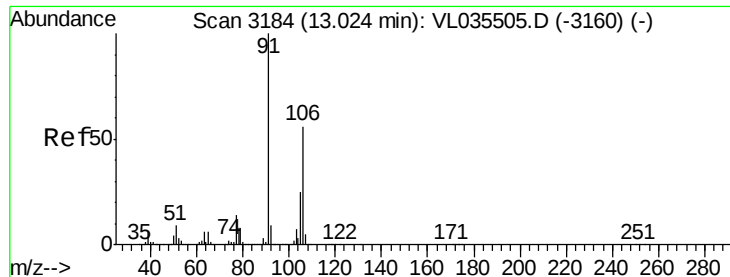
MMDadoda
9/10/2020 10:45:35 AM



#58
Ethyl Benzene
Concen: 0.475 ppbv
RT: 12.71 min Scan# 3087
Delta R.T. -0.03 min
Lab File: VL035570.D
Acq: 9 Sep 2020 00:27

Tgt Ion: 91 Resp: 214486
Ion Ratio Lower Upper
91 100
106 31.0 30.3 45.5





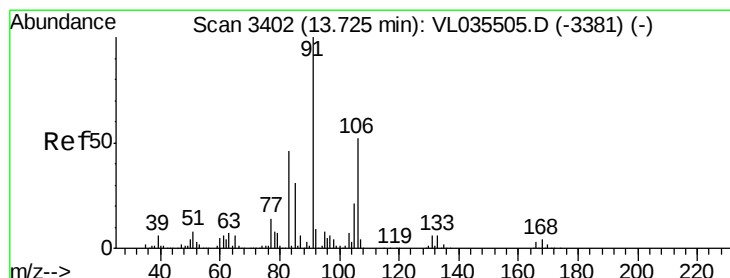
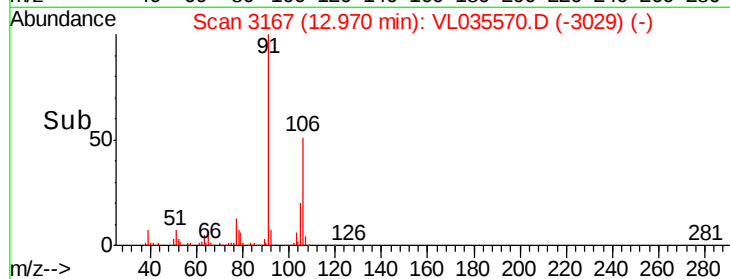
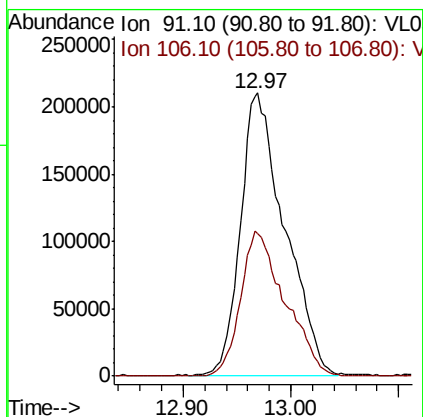
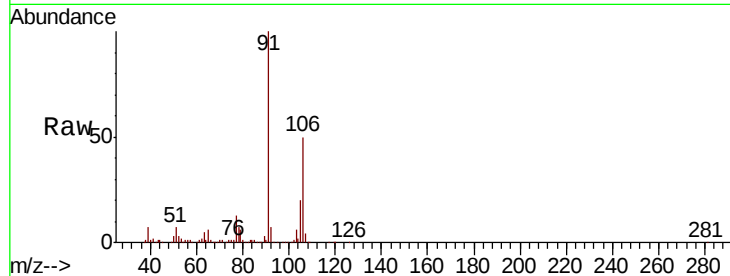
#59
m/p-Xylene
Concen: 1.583 ppbv
RT: 12.97 min Scan# 3167
Delta R.T. -0.05 min
Lab File: VL035570.D
Acq: 9 Sep 2020 00:27

Instrument :
MSVOA_L
ClientSampled :
SS-7

Tot Ion: 91 Resp: 597497
Ion Ratio Lower Upper
91 100
106 51.7 43.4 65.2

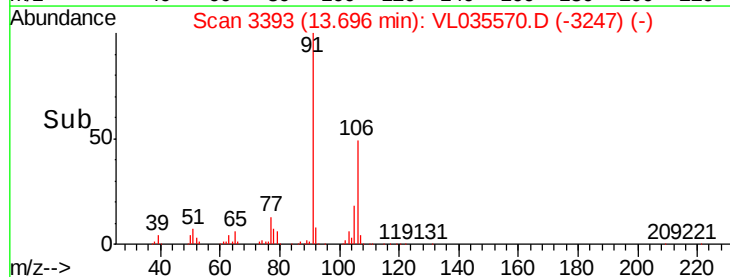
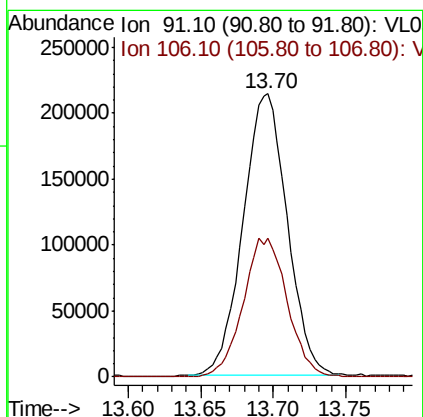
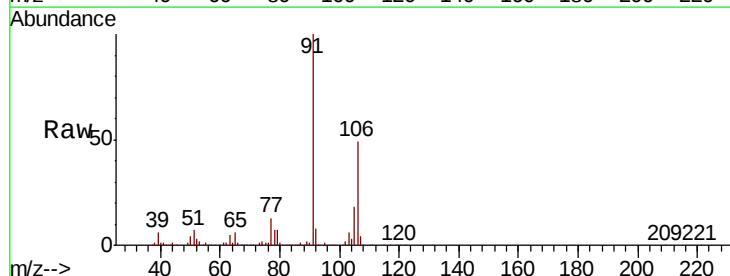
Manual Integrations
APPROVED

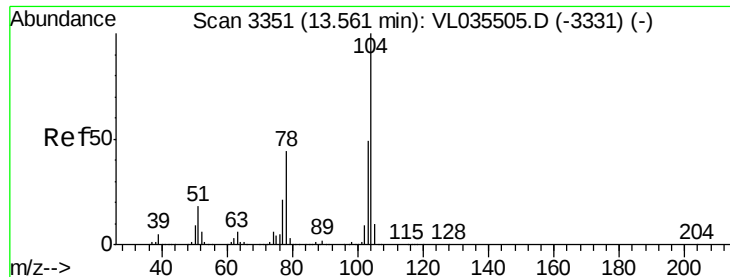
MMDadoda
9/10/2020 10:45:35 AM



#60
o-Xylene
Concen: 1.196 ppbv
RT: 13.70 min Scan# 3393
Delta R.T. -0.03 min
Lab File: VL035570.D
Acq: 9 Sep 2020 00:27

Tgt Ion: 91 Resp: 454637
Ion Ratio Lower Upper
91 100
106 49.2 25.8 77.4





#61

Stvrene

Concen: 0.385 ppbv

RT: 13.53 min Scan# 3342

Delta R.T. -0.03 min

Lab File: VL035570.D

Acq: 9 Sep 2020 00:27

Instrument :

MSVOA_L

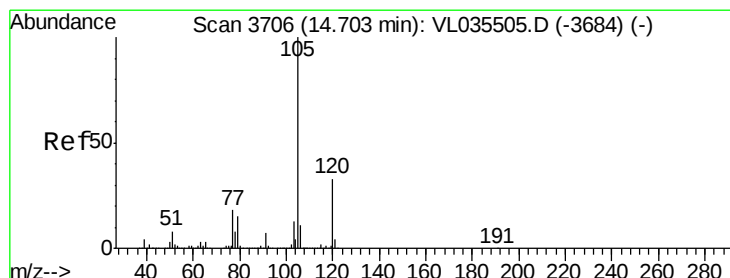
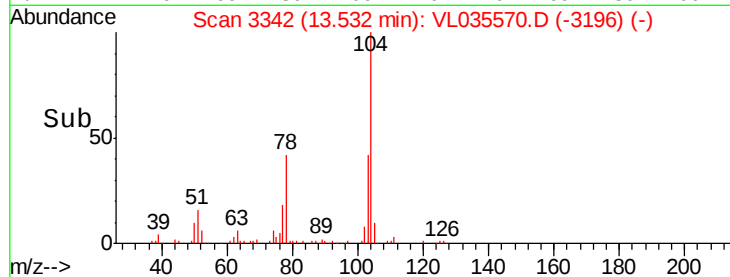
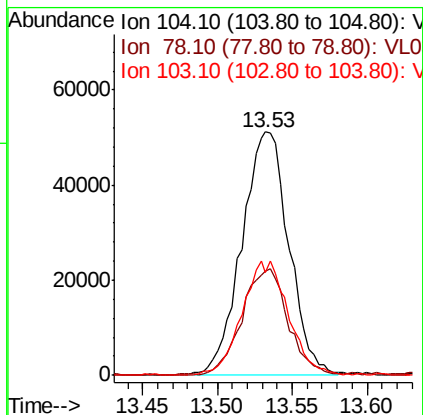
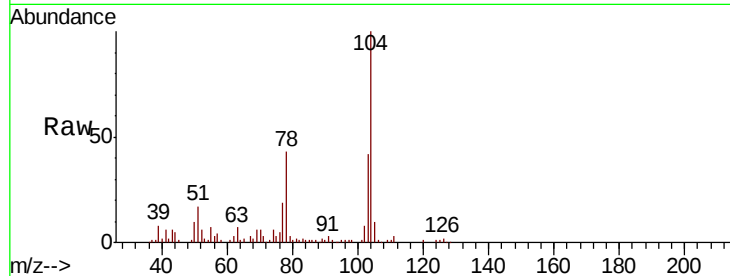
ClientSampleId :

SS-7

Tot Ion:	104	Resp:	111841
Ion Ratio	Lower	Upper	
104	100		
78	43.4	34.8	52.2
103	46.5	38.2	57.4

Manual Integrations
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#62

Isopropylbenzene

Concen: 0.718 ppbv

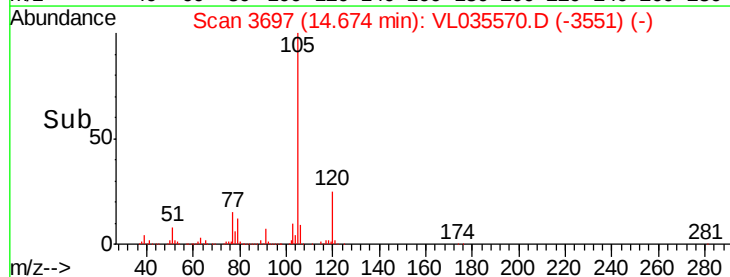
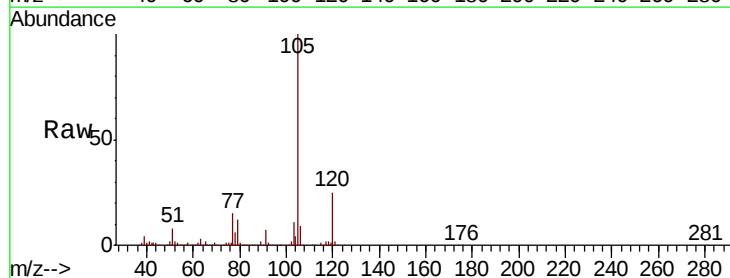
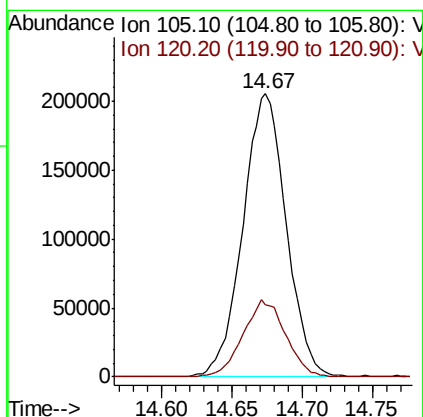
RT: 14.67 min Scan# 3697

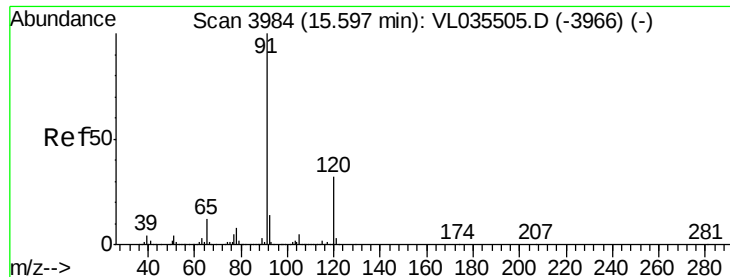
Delta R.T. -0.03 min

Lab File: VL035570.D

Acq: 9 Sep 2020 00:27

Tgt Ion:	105	Resp:	438234
Ion Ratio	Lower	Upper	
105	100		
120	27.1	25.0	37.4





#64

n-propylbenzene

Concen: 2.004 ppbv

RT: 15.57 min Scan# 3976

Delta R.T. -0.03 min

Lab File: VL035570.D

Acq: 9 Sep 2020 00:27

Instrument :

MSVOA_L

ClientSampled :

SS-7

Tot Ion:120 Resp: 373427

Ion Ratio Lower Upper

120 100

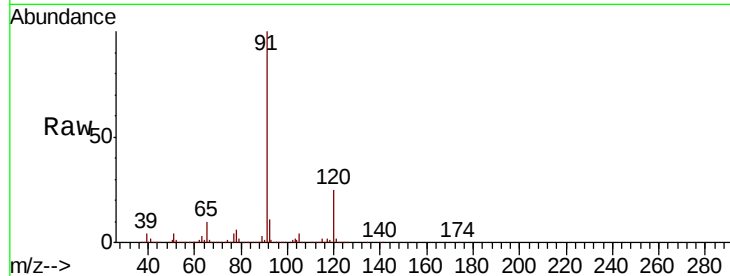
91 425.1 279.4 419.0#

Manual Integrations

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MMDadoda

9/10/2020 10:45:35 AM



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

800000

600000

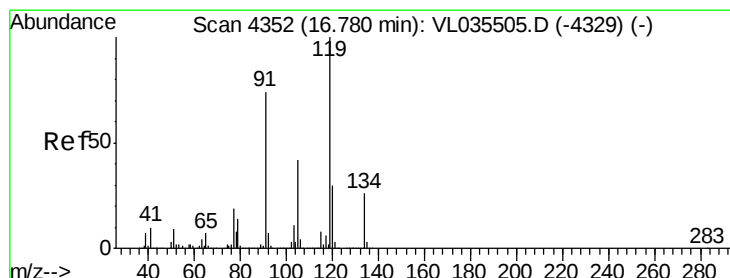
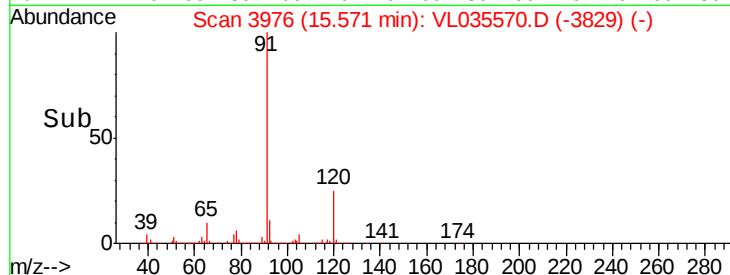
400000

200000

0

15.50 15.55 15.60 15.65

Time-->



#65

tert-Butylbenzene

Concen: 0.887 ppbv

RT: 16.77 min Scan# 4349

Delta R.T. -0.01 min

Lab File: VL035570.D

Acq: 9 Sep 2020 00:27

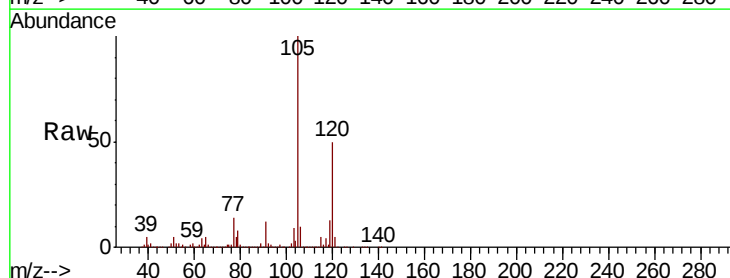
Tgt Ion:119 Resp: 503537

Ion Ratio Lower Upper

119 100

91 91.3 58.6 87.8#

134 0.9 18.9 28.3#



Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V

300000

250000

200000

150000

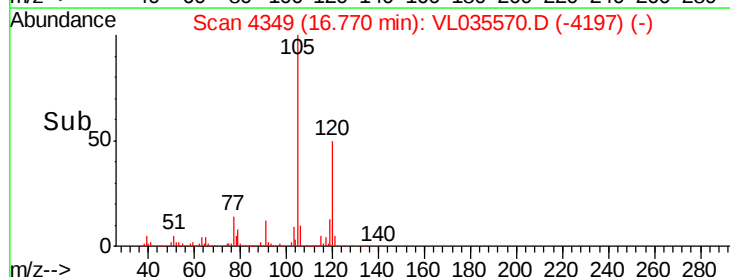
100000

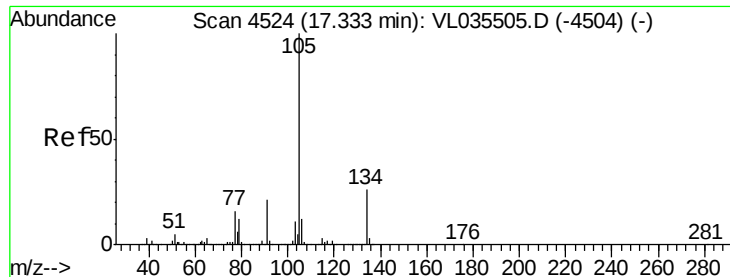
50000

0

16.70 16.80

Time-->





#67

sec-Butylbenzene

Concen: 0.152 ppbv

RT: 17.30 min Scan# 4514

Delta R.T. -0.03 min

Lab File: VL035570.D

Acq: 9 Sep 2020 00:27

Instrument :

MSVOA_L

ClientSampled :

SS-7

Tot Ion: 105 Resp: 114967

Ion Ratio Lower Upper

105 100

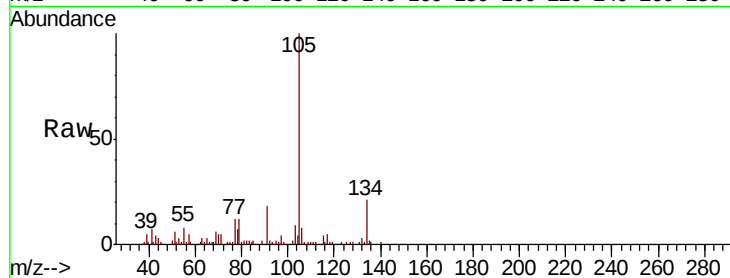
134 19.2 19.1 28.7

Manual Integrations

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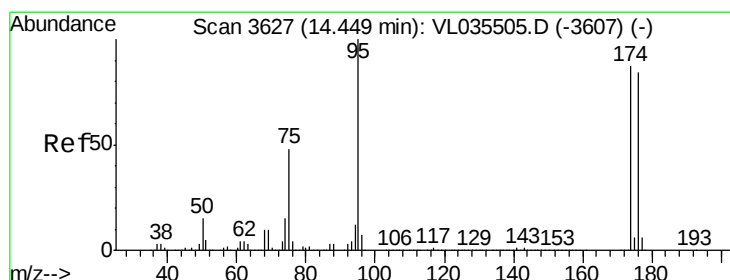
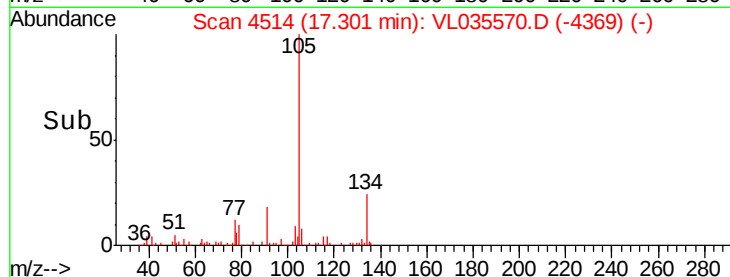
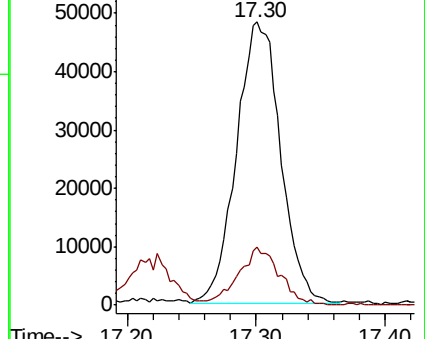
MMDadoda

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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: 10.700 ppbv

RT: 14.42 min Scan# 3618

Delta R.T. -0.03 min

Lab File: VL035570.D

Acq: 9 Sep 2020 00:27

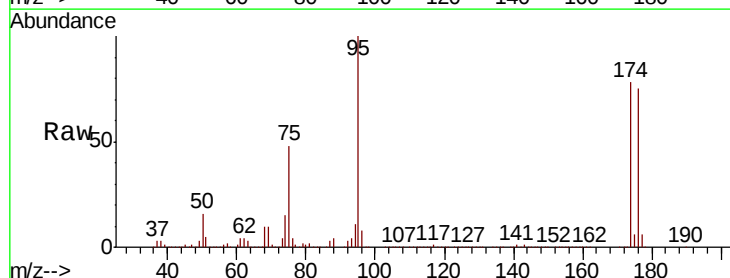
Tgt Ion: 95 Resp: 3328355

Ion Ratio Lower Upper

95 100

174 78.5 69.6 104.4

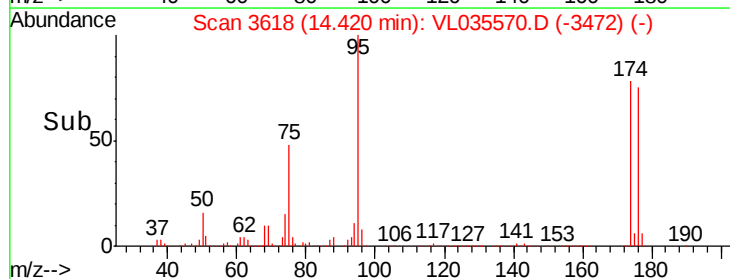
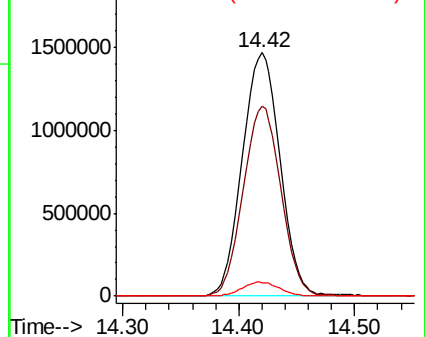
175 5.8 5.1 7.7

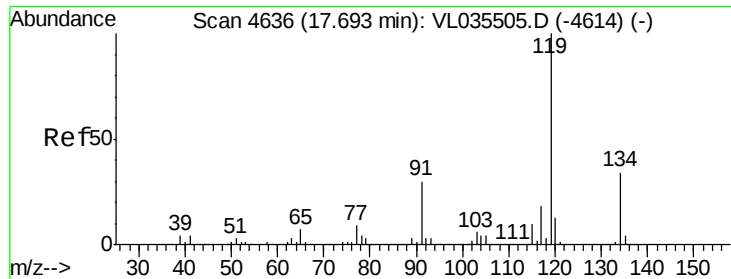


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





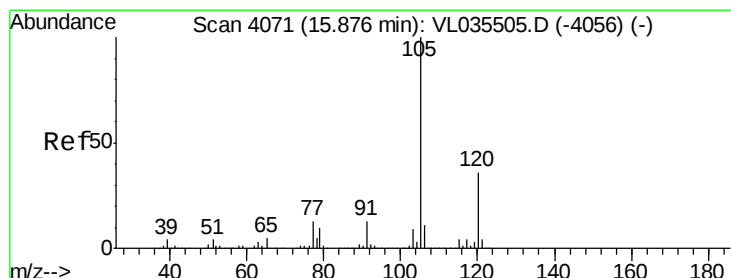
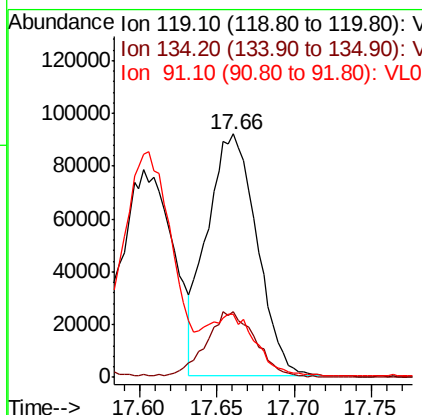
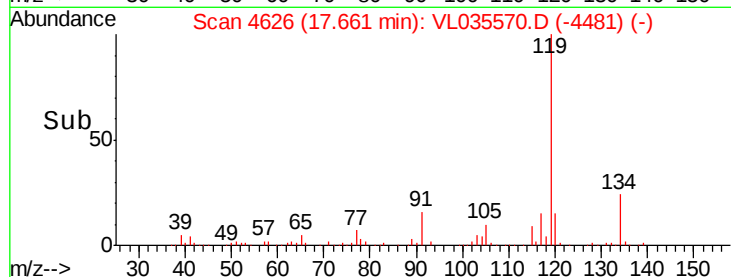
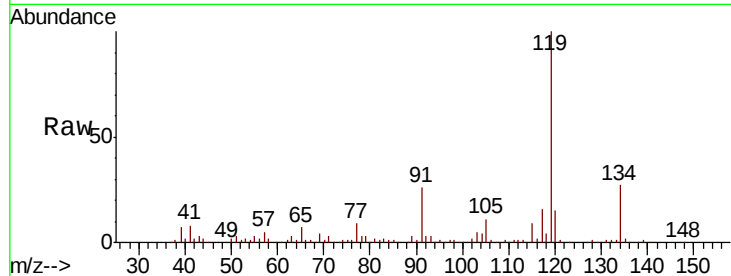
#69
 p-Isopropyltoluene
 Concen: 0.311 ppbv
 RT: 17.66 min Scan# 4626
 Delta R.T. -0.03 min
 Lab File: VL035570.D
 Acq: 9 Sep 2020 00:27

Instrument :
 MSVOA_L
 ClientSampled :
 SS-7

Tot Ion	Ratio	Resp	Lower	Upper
119	100	206085		
134	27.3	25.0	37.4	
91	24.7	22.3	33.5	

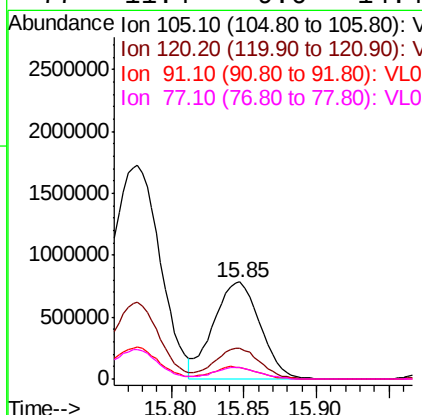
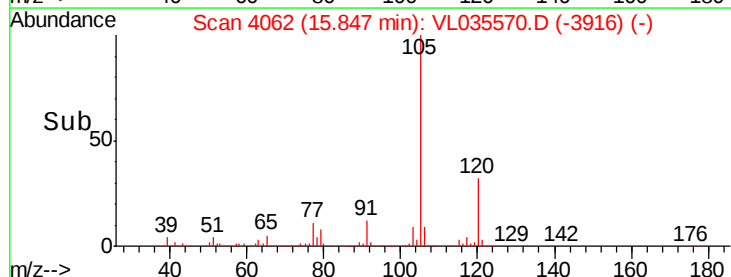
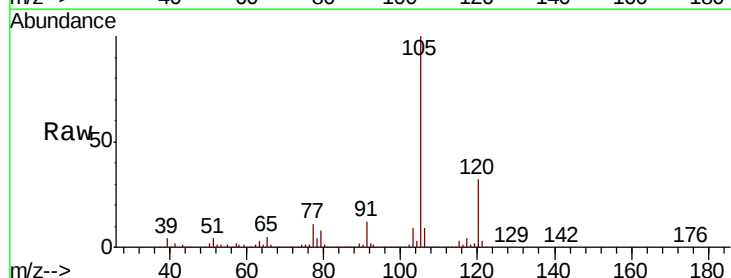
Manual Integrations
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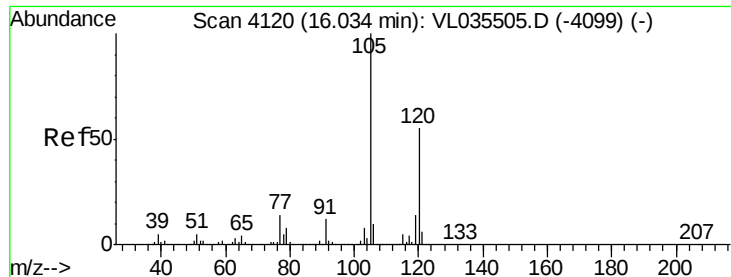
MMDadoda
 9/10/2020 10:45:35 AM



#72
 4-Ethyltoluene
 Concen: 3.613 ppbv
 RT: 15.85 min Scan# 4062
 Delta R.T. -0.03 min
 Lab File: VL035570.D
 Acq: 9 Sep 2020 00:27

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	1746098		
120	31.1	27.4	41.2	
91	12.4	9.7	14.5	
77	11.4	9.6	14.4	





#73

1,3,5-Trimethylbenzene

Concen: 3.540 ppbv

RT: 16.00 min Scan# 4110

Delta R.T. -0.03 min

Lab File: VL035570.D

Acq: 9 Sep 2020 00:27

Instrument :

MSVOA_L

ClientSampled :

SS-7

Tot Ion:105 Resp: 1582333

Ion Ratio Lower Upper

105 100

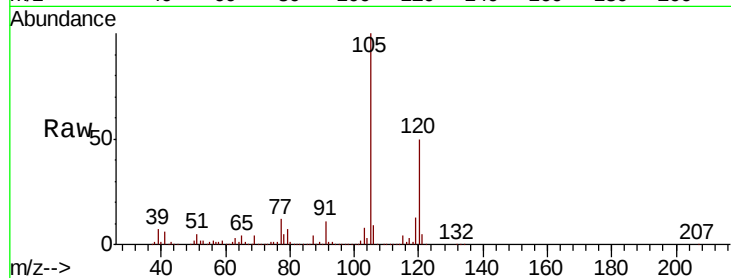
120 50.4 44.2 66.2

Manual Integrations

APPROVED

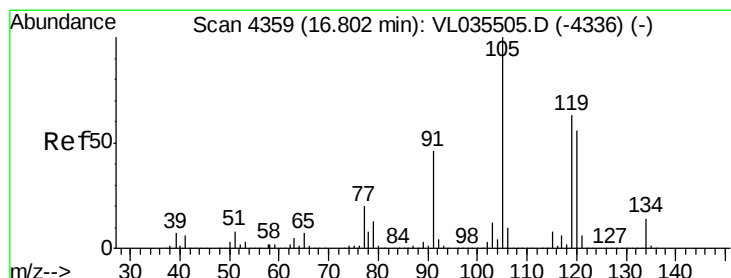
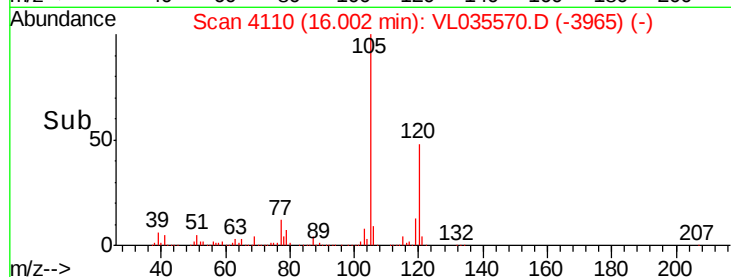
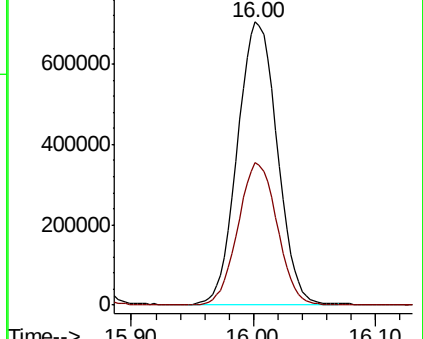
MMDadoda

9/10/2020 10:45:35 AM



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 8.264 ppbv

RT: 16.77 min Scan# 4348

Delta R.T. -0.04 min

Lab File: VL035570.D

Acq: 9 Sep 2020 00:27

Tgt Ion:105 Resp: 4056357

Ion Ratio Lower Upper

105 100

120 50.2 44.4 66.6

91 12.1 37.1 55.7#

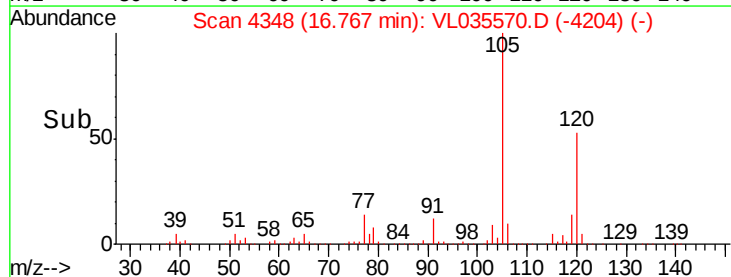
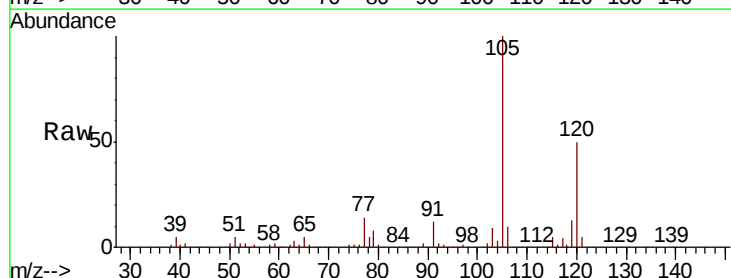
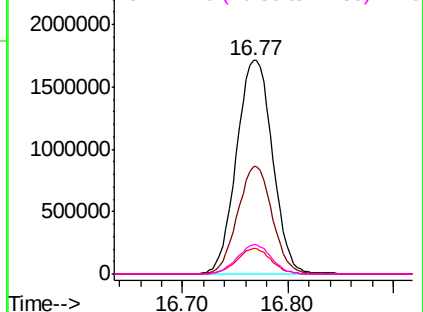
77 13.8 16.0 24.0#

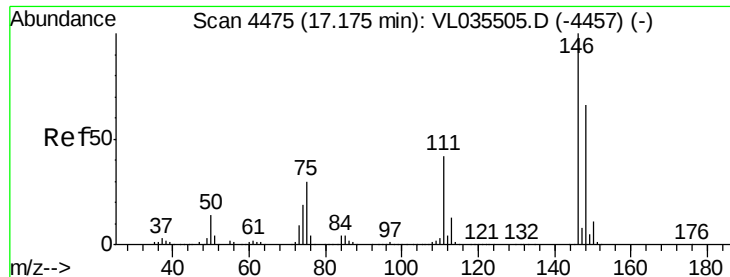
Abundance Ion 105.10 (104.80 to 105.80): V

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





#76

1,4-Dichlorobenzene

Concen: 0.403 ppbv

RT: 17.15 min Scan# 4466

Delta R.T. -0.03 min

Lab File: VL035570.D

Acq: 9 Sep 2020 00:27

Instrument :

MSVOA_L

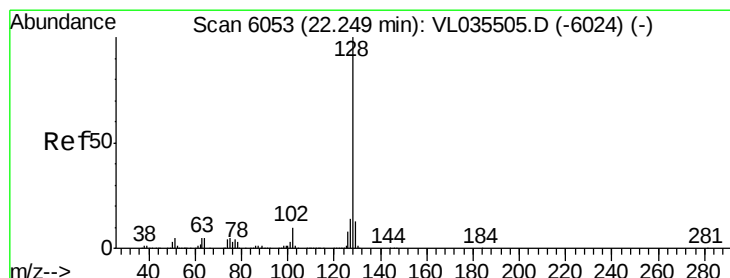
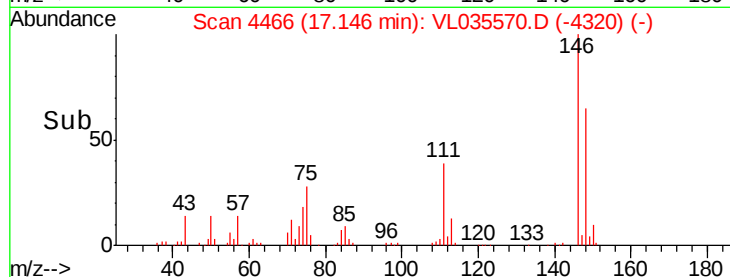
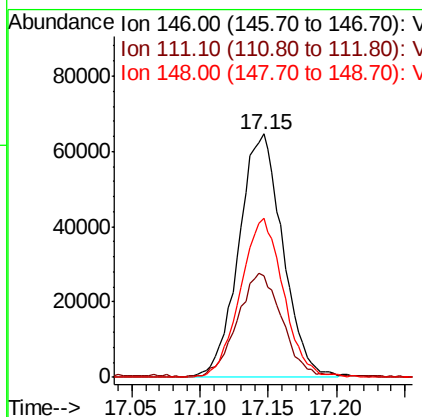
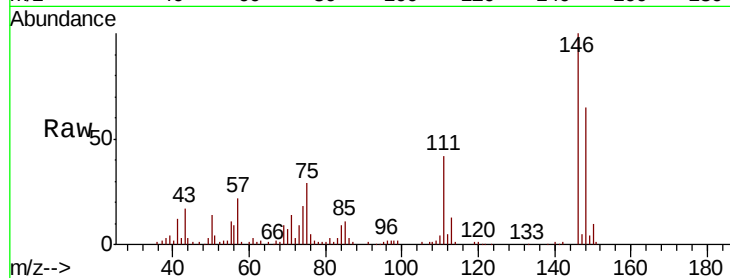
ClientSampled :

SS-7

Tot Ion:	146	Resp:	144490
Ion Ratio	Lower	Upper	
146	100		
111	43.4	20.0	60.0
148	63.9	33.2	99.6

Manual Integrations
APPROVED

MMDadoda
9/10/2020 10:45:35 AM



#79

Naphthalene

Concen: 1.280 ppbv

RT: 22.21 min Scan# 6042

Delta R.T. -0.04 min

Lab File: VL035570.D

Acq: 9 Sep 2020 00:27

Tgt Ion:	128	Resp:	697234
Ion Ratio	Lower	Upper	
128	100		
127	12.9	11.4	17.2
129	9.9	10.5	15.7#

