

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL101719\
 Data File : VL034327.D
 Acq On : 17 Oct 2019 22:02
 Operator : SY/AP
 Sample : K5409-02
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV2

Manual Integrations
 APPROVED

MMDadoda
 10/22/2019 2:55:35 PM

Quant Time: Oct 18 05:38:39 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL101619AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Oct 18 05:38:39 2019
 QLast Update : Thu Oct 17 05:12:37 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.70	49	962746	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.22	114	1994680	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.17	117	2011668	10.00	ppbv	0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.50	95	1708113	10.03	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.03	85	37519	0.226	ppbv #	83
3) Chlorodifluoromethane	2.97	51	34293m	0.304	ppbv	
4) Chloromethane	3.12	50	147625	2.212	ppbv	98
5) Vinyl Chloride	3.24	62	27637	0.434	ppbv #	87
7) Chloroethane	3.54	64	5834m	0.260	ppbv	
9) Propene	2.99	41	4254322	85.048	ppbv	97
10) Heptane	8.17	43	419286	3.266	ppbv	98
11) Trichlorofluoromethane	3.94	101	44719	0.284	ppbv	85
13) Ethanol	3.60	45	93801m	8.375	ppbv	
15) Acetone	3.84	43	8932318	64.865	ppbv #	60
17) tert-Butyl alcohol	4.30	59	167192	1.902	ppbv	95
19) Isopropyl Alcohol	3.97	45	83920	1.092	ppbv #	95
20) Methylene Chloride	4.35	84	36112	0.725	ppbv #	82
26) Hexane	5.71	57	512605	5.173	ppbv #	37
27) Carbon Disulfide	4.56	76	728289	7.079	ppbv	98
29) Chloroform	5.78	83	349077	2.227	ppbv	99
30) Cyclohexane	7.17	84	139276	1.911	ppbv #	88
31) cis-1,2-Dichloroethene	5.58	61	110508	1.099	ppbv	96
32) 1,1,1-Trichloroethane	6.55	97	12814m	0.084	ppbv	
34) 2-Butanone	5.26	43	1005171	6.165	ppbv	97
35) Carbon Tetrachloride	7.06	117	7740m	0.045	ppbv	
36) Benzene	6.93	78	1003486	5.243	ppbv	97
38) Trichloroethene	7.88	130	279920	3.645	ppbv	92
44) 2,2,4-Trimethylpentane	7.92	57	257399	0.727	ppbv #	64
50) 4-Methyl-2-Pentanone	8.80	43	145858m	0.625	ppbv	
51) 2-Hexanone	10.21	43	265880m	1.390	ppbv	
52) Tetrachloroethene	11.38	164	27171202	362.198	ppbv	92
53) Toluene	9.87	91	2558229	12.112	ppbv	99
58) Ethyl Benzene	12.80	91	764340	2.718	ppbv	93
59) m/p-Xylene	13.05	91	2198893	9.025	ppbv	99
60) o-Xylene	13.78	91	877369	3.616	ppbv	100
61) Styrene	13.61	104	75615m	0.443	ppbv	
62) Isopropylbenzene	14.75	105	71587m	0.224	ppbv	
64) n-propylbenzene	15.64	120	61628m	0.750	ppbv	
65) tert-Butylbenzene	16.85	119	106749m	0.376	ppbv	
72) 4-Ethyltoluene	15.93	105	322504	1.183	ppbv	98
73) 1,3,5-Trimethylbenzene	16.08	105	282979m	1.047	ppbv	
74) 1,2,4-Trimethylbenzene	16.85	105	960841	3.410	ppbv #	73
79) Naphthalene	22.33	128	106232m	0.516	ppbv	
80) Naphthalene,2-methyl-	25.04	142	12581	0.211	ppbv #	85

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

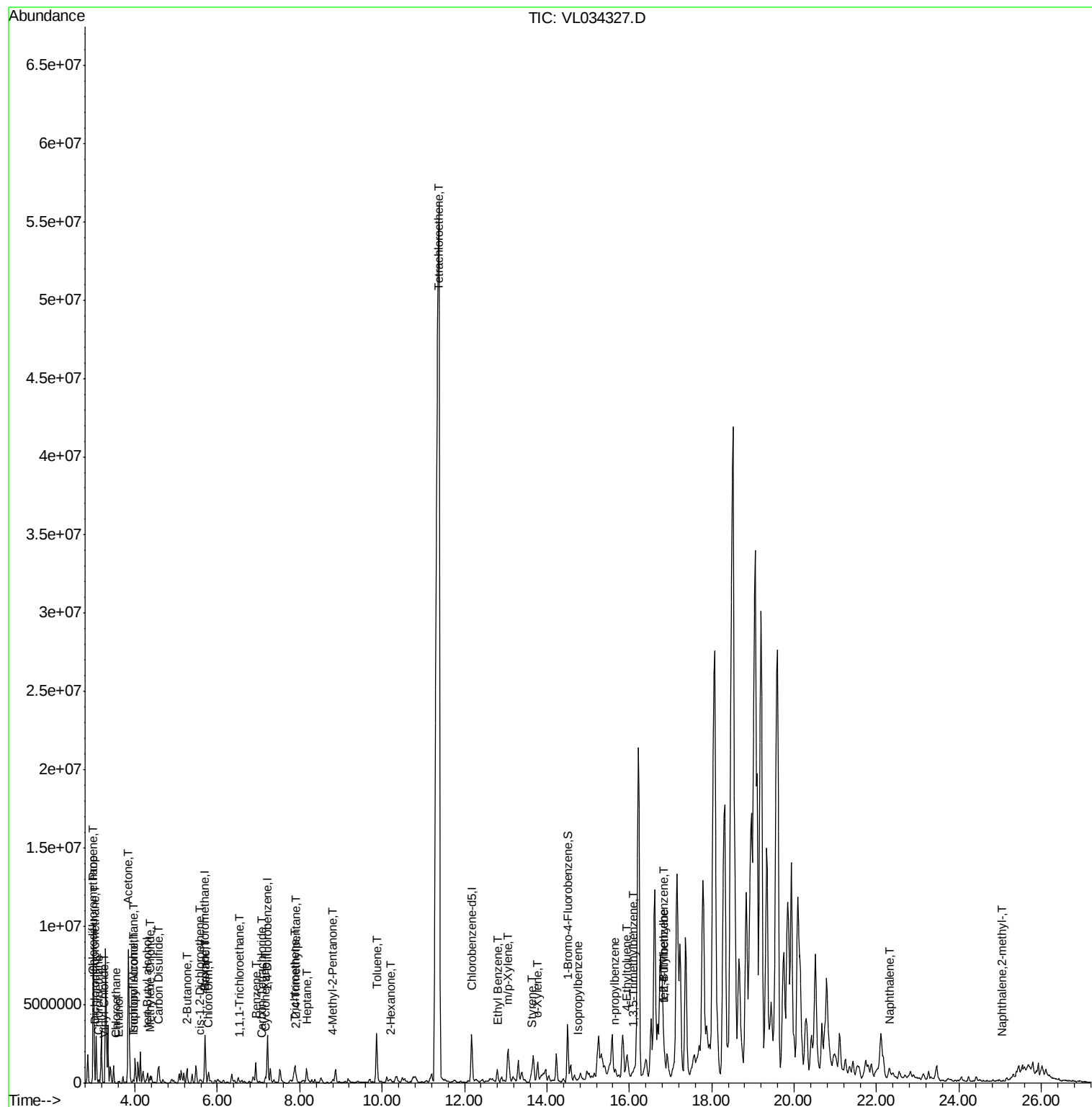
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL101719\
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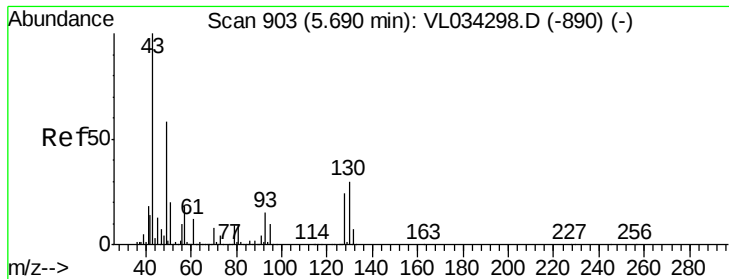
Instrument :
MSVOA_L
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Oct
QLast Update : Thu Oct 17 05:12:37 2019
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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.70 min Scan# 905

Delta R.T. 0.01 min

Lab File: VL034327.D

Acq: 17 Oct 2019 22:02

Instrument :

MSVOA_L

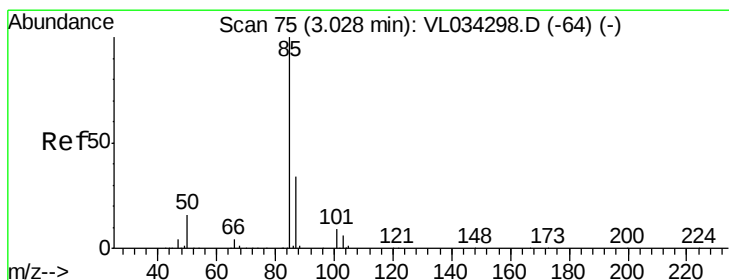
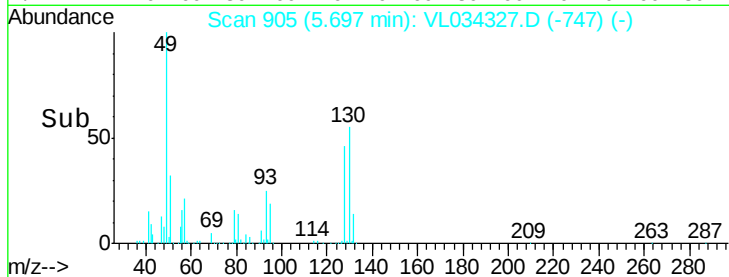
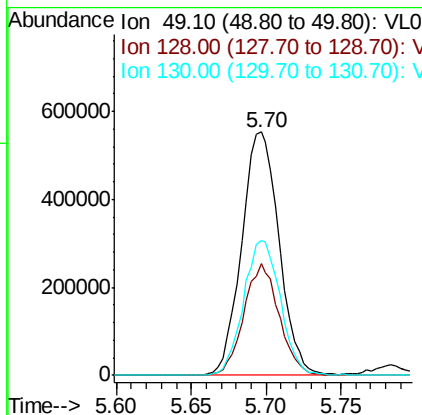
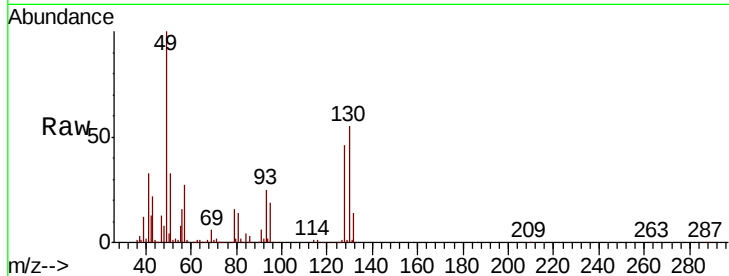
ClientSampled :

SV2

Tot Ion	Ratio	Lower	Upper
49	100		
128	43.6	20.6	61.8
130	54.9	26.2	78.5

Manual Integrations
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#2

Dichlorodifluoromethane

Concen: 0.226 ppbv

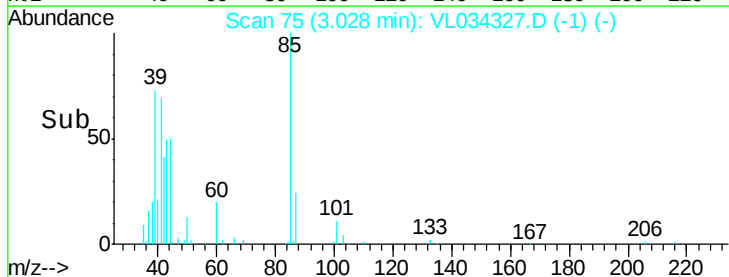
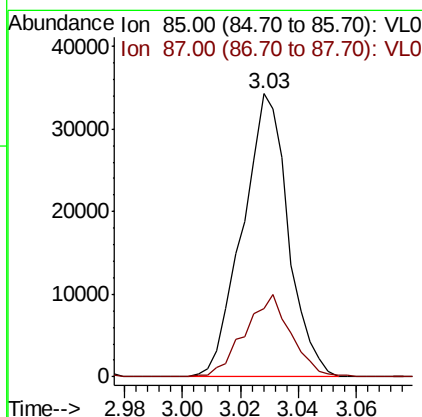
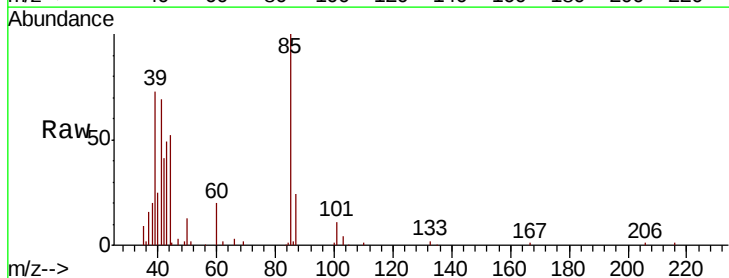
RT: 3.03 min Scan# 75

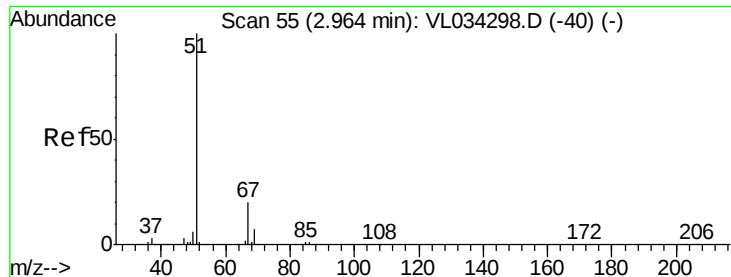
Delta R.T. 0.00 min

Lab File: VL034327.D

Acq: 17 Oct 2019 22:02

Tgt Ion	Ratio	Lower	Upper
85	100		
87	24.0	27.0	40.6





#3

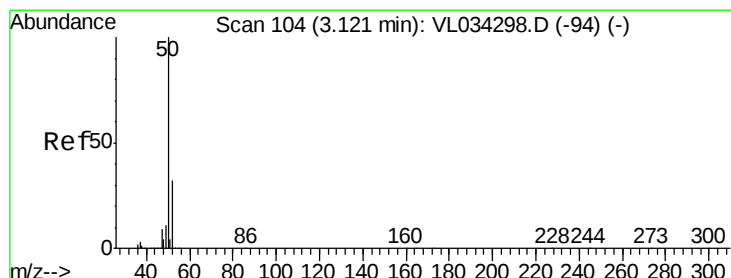
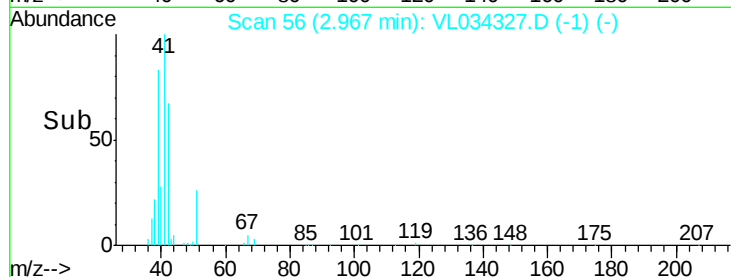
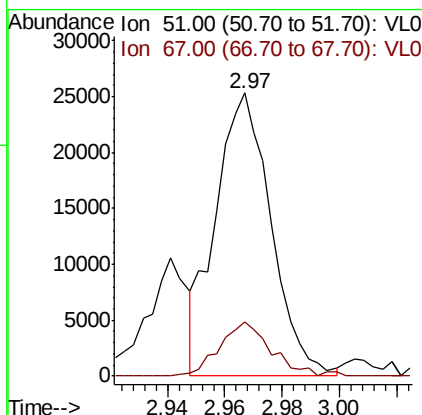
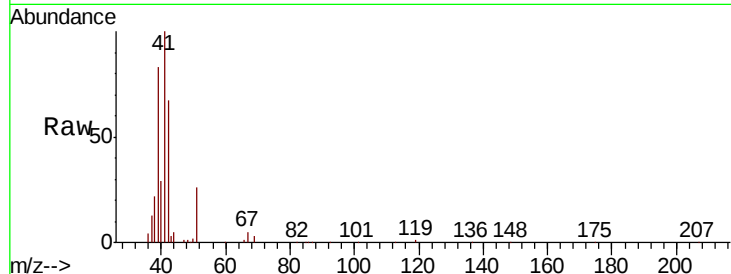
Chlorodifluoromethane
 Concen: 0.304 ppbv
 RT: 2.97 min Scan# 56
 Delta R.T. 0.00 min
 Lab File: VL034327.D
 Acq: 17 Oct 2019 22:02

Instrument :
 MSVOA_L
 ClientSampled :
 SV2

Tot Ion	Ratio	Lower	Upper
51	100		
67	18.0	15.8	23.8

Manual Integrations
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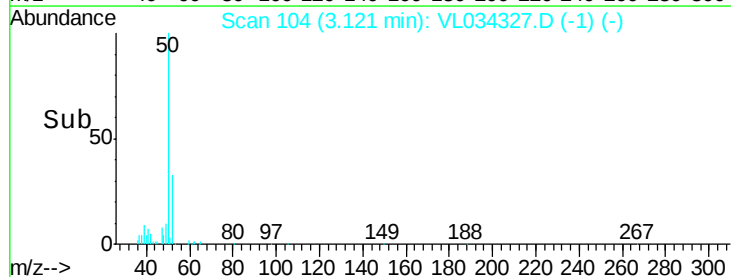
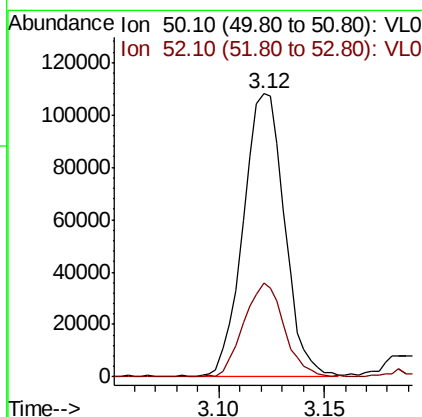
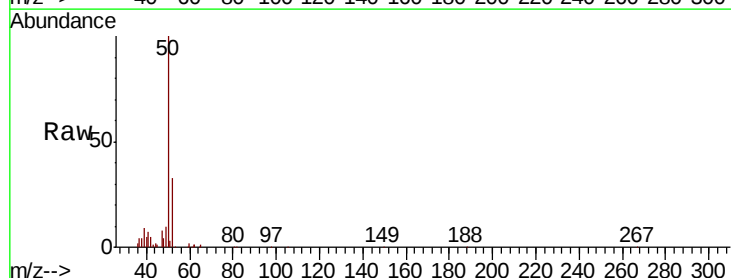
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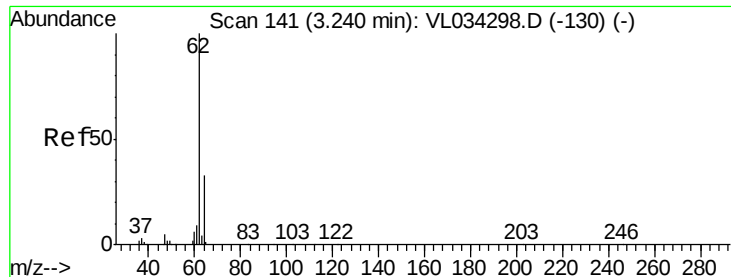


#4

Chloromethane
 Concen: 2.212 ppbv
 RT: 3.12 min Scan# 104
 Delta R.T. 0.00 min
 Lab File: VL034327.D
 Acq: 17 Oct 2019 22:02

Tgt Ion	Ratio	Lower	Upper
50	100		
52	33.1	25.4	38.2





#5

Vinyl Chloride

Concen: 0.434 ppbv

RT: 3.24 min Scan# 141

Delta R.T. 0.00 min

Lab File: VL034327.D

Acq: 17 Oct 2019 22:02

Instrument :

MSVOA_L

ClientSampleID :

SV2

Tot Ion: 62 Resp: 27637

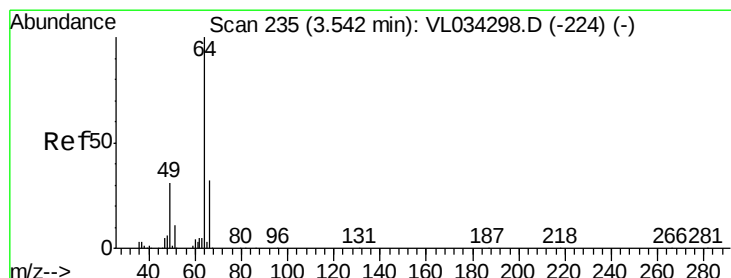
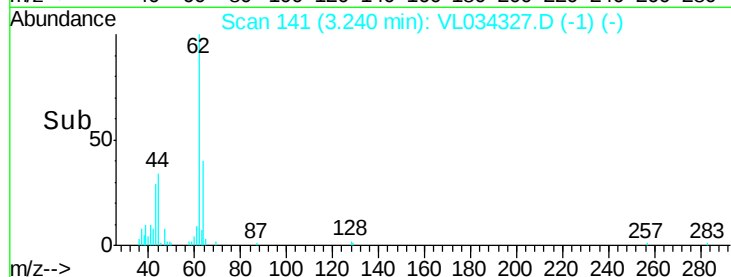
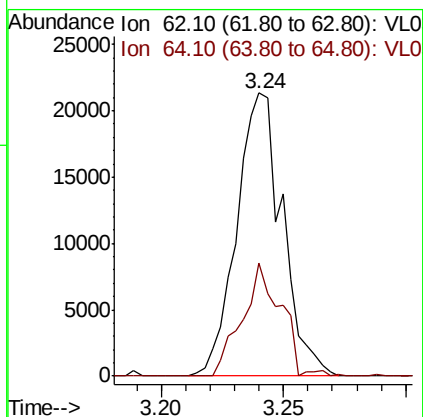
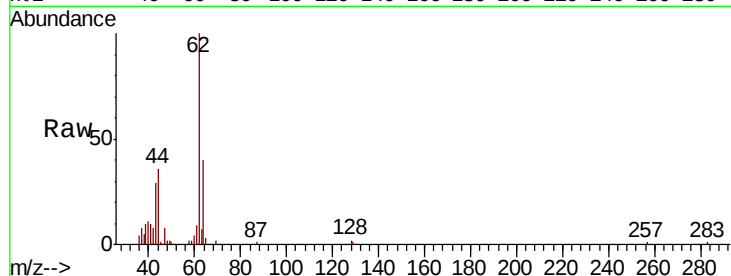
Ion Ratio Lower Upper

62 100

64 39.8 26.0 39.0#

Manual Integrations
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#7

Chloroethane

Concen: 0.260 ppbv m

RT: 3.54 min Scan# 234

Delta R.T. -0.00 min

Lab File: VL034327.D

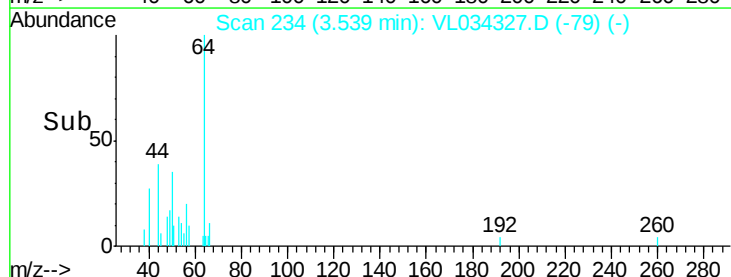
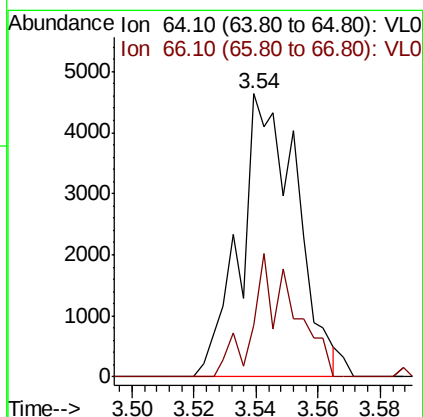
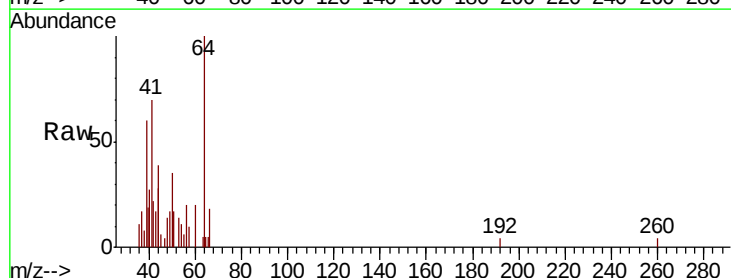
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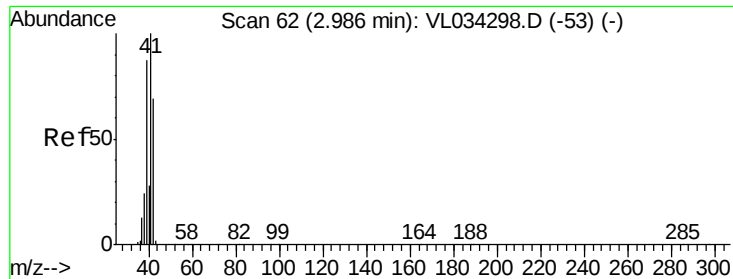
Tgt Ion: 64 Resp: 5834

Ion Ratio Lower Upper

64 100

66 18.1 25.4 38.0#





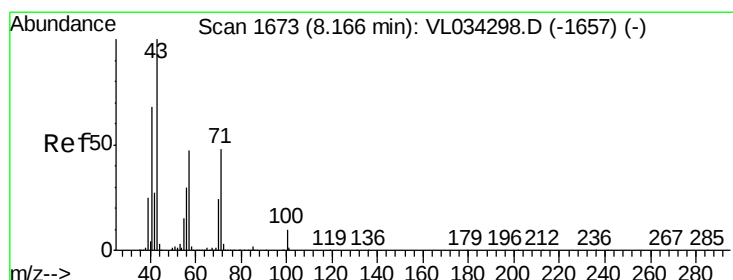
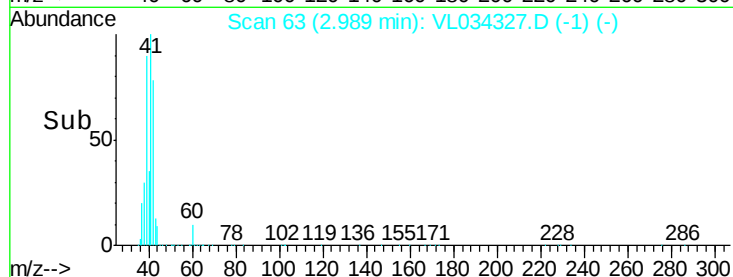
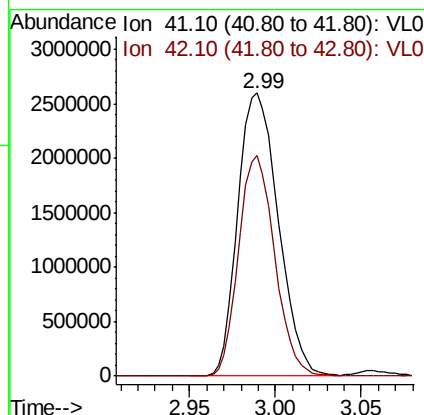
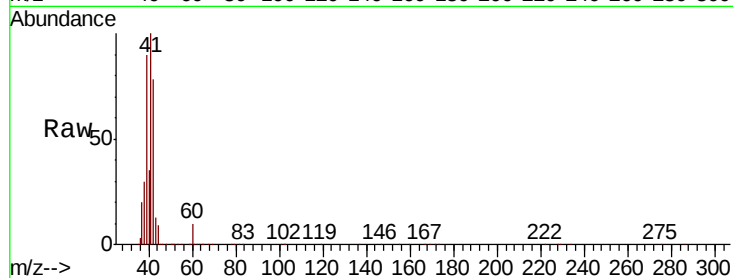
#9
 Propene
 Concen: 85.048 ppbv
 RT: 2.99 min Scan# 63
 Delta R.T. 0.00 min
 Lab File: VL034327.D
 Acq: 17 Oct 2019 22:02

Instrument :
 MSVOA_L
 ClientSampleId :
 SV2

Tot Ion: 41 Resp: 4254322
 Ion Ratio Lower Upper
 41 100
 42 69.9 53.9 80.9

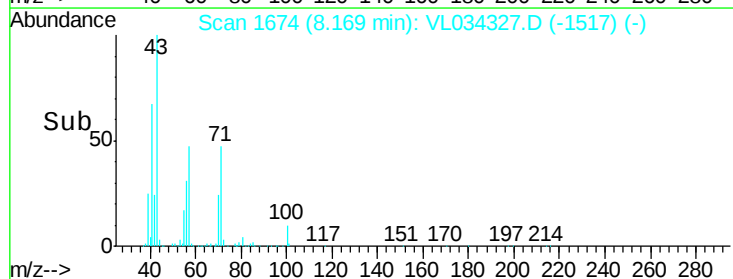
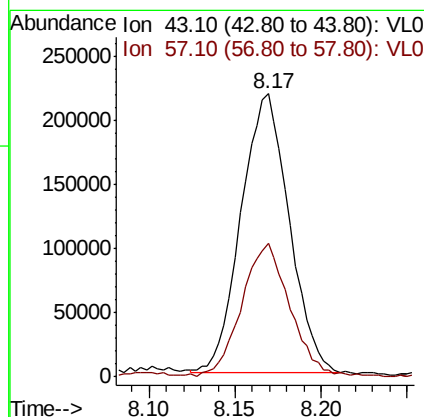
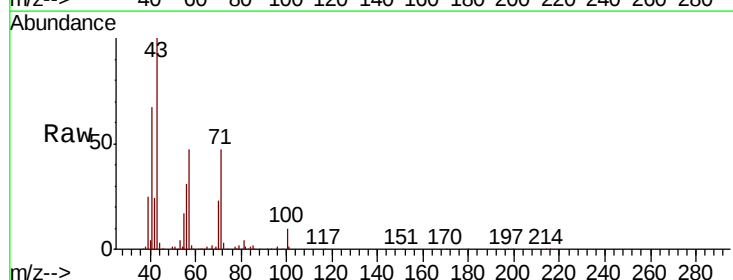
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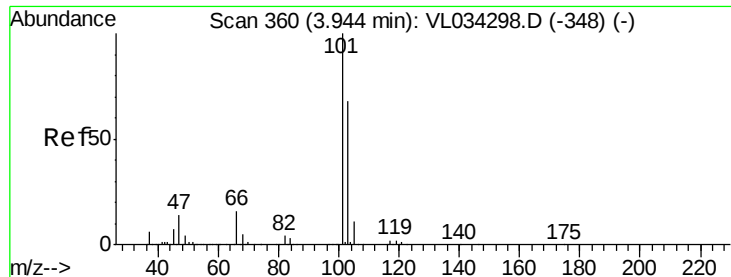
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#10
 Heptane
 Concen: 3.266 ppbv
 RT: 8.17 min Scan# 1674
 Delta R.T. 0.00 min
 Lab File: VL034327.D
 Acq: 17 Oct 2019 22:02

Tgt Ion: 43 Resp: 419286
 Ion Ratio Lower Upper
 43 100
 57 48.2 39.5 59.3





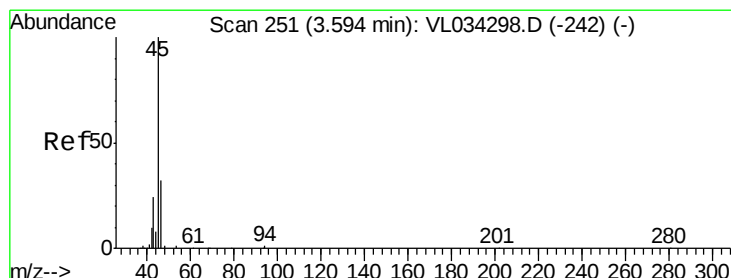
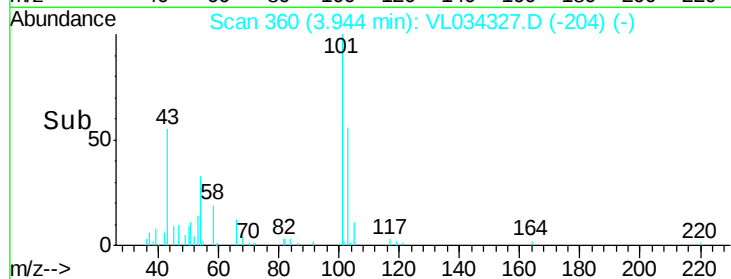
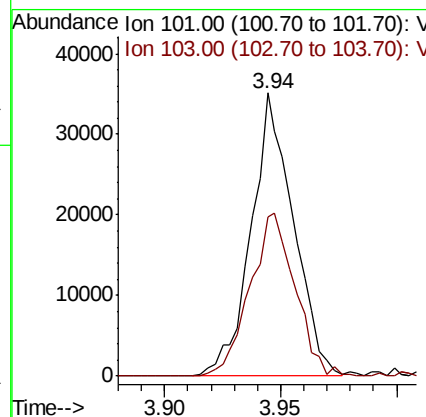
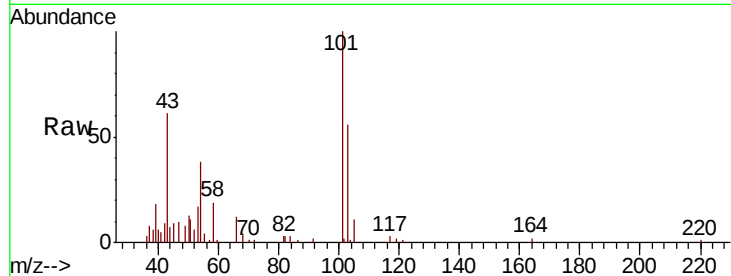
#11
 Trichlorofluoromethane
 Concen: 0.284 ppbv
 RT: 3.94 min Scan# 360
 Delta R.T. 0.00 min
 Lab File: VL034327.D
 Acq: 17 Oct 2019 22:02

Instrument :
 MSVOA_L
 ClientSampled :
 SV2

Tot Ion	Ratio	Lower	Upper
101	100		
103	56.1	54.5	81.7

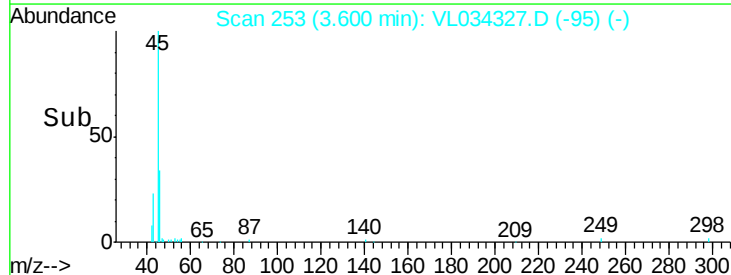
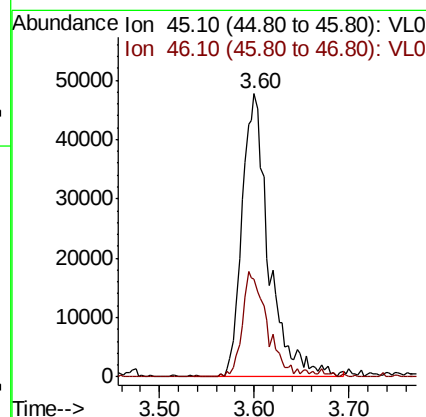
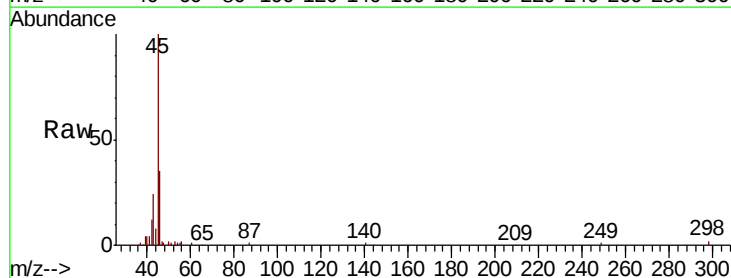
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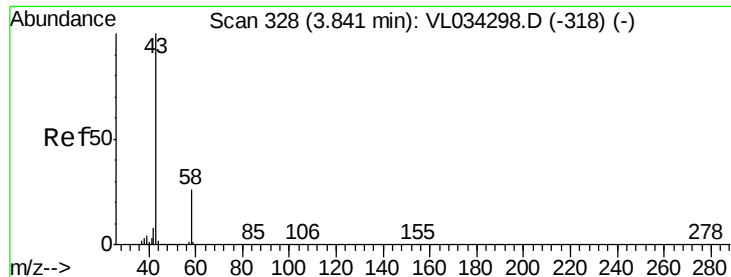
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#13
 Ethanol
 Concen: 8.375 ppbv m
 RT: 3.60 min Scan# 253
 Delta R.T. 0.01 min
 Lab File: VL034327.D
 Acq: 17 Oct 2019 22:02

Tgt Ion	Ratio	Lower	Upper
45	100		
46	35.8	15.8	63.2





#15

Acetone

Concen: 64.865 ppbv

RT: 3.84 min Scan# 328

Delta R.T. 0.00 min

Lab File: VL034327.D

Acq: 17 Oct 2019 22:02

Instrument :

MSVOA_L

ClientSampled :

SV2

Tot Ion: 43 Resp: 8932318

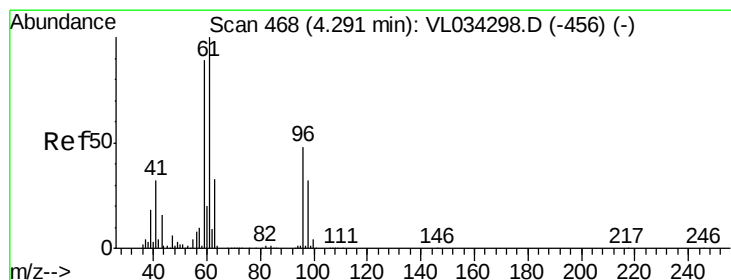
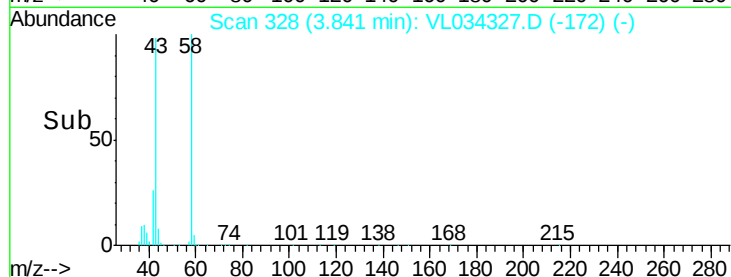
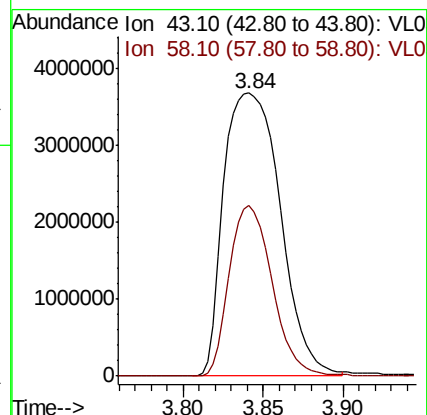
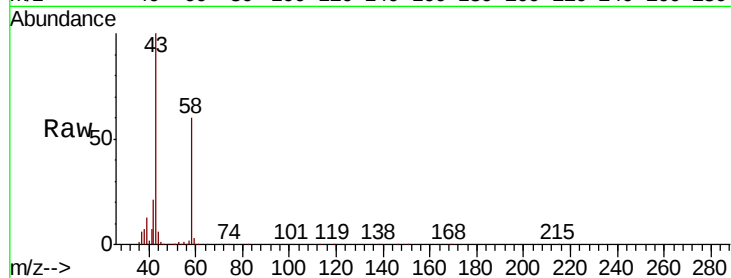
Ion Ratio Lower Upper

43 100

58 45.9 20.4 30.6#

Manual Integrations
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#17

tert-Butyl alcohol

Concen: 1.902 ppbv

RT: 4.30 min Scan# 471

Delta R.T. 0.01 min

Lab File: VL034327.D

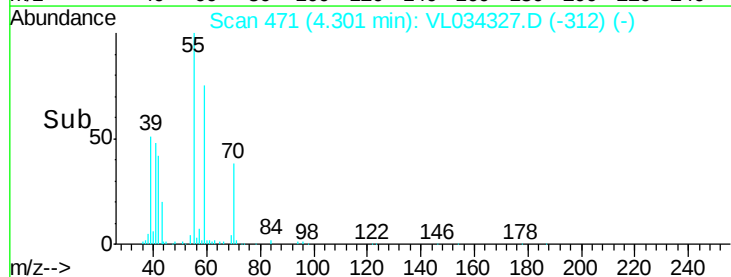
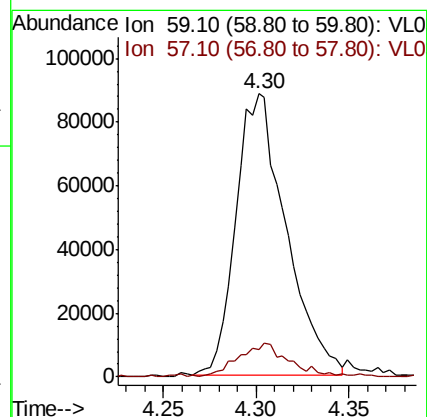
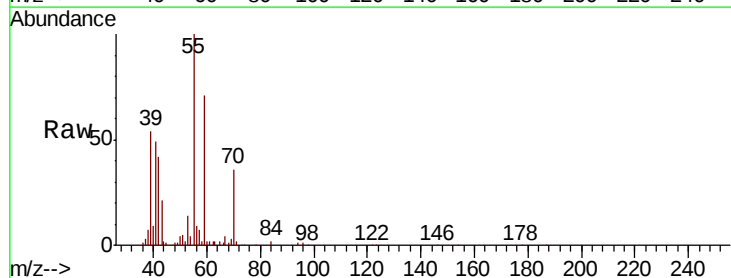
Acq: 17 Oct 2019 22:02

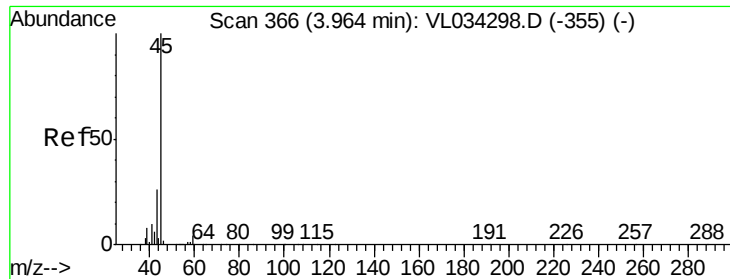
Tgt Ion: 59 Resp: 167192

Ion Ratio Lower Upper

59 100

57 12.8 8.8 13.2





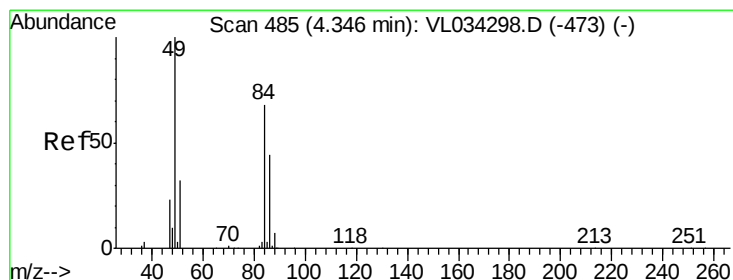
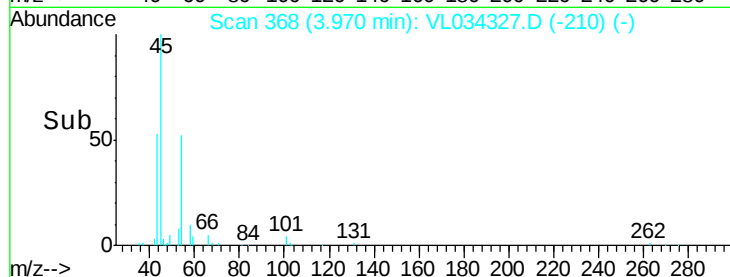
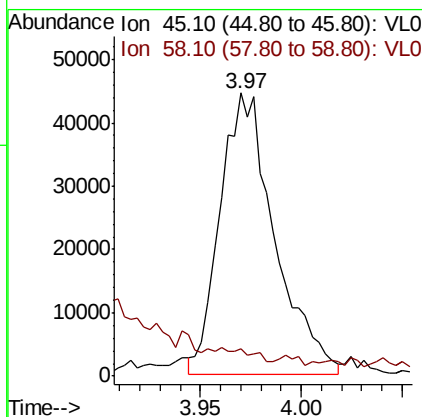
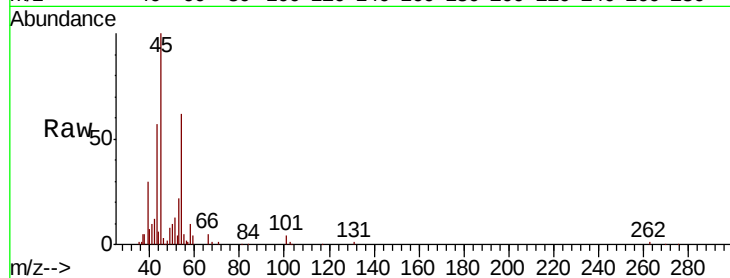
#19
Isopropyl Alcohol
Concen: 1.092 ppbv
RT: 3.97 min Scan# 368
Delta R.T. 0.01 min
Lab File: VL034327.D
Acq: 17 Oct 2019 22:02

Instrument :
MSVOA_L
ClientSampled :
SV2

Tot Ion	45	58	Ratio	100	0.0	Resp	83920	Lower	Upper
45	100								
58		0.0						1.4	2.2#

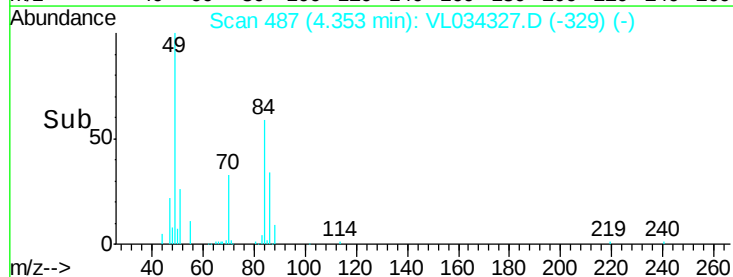
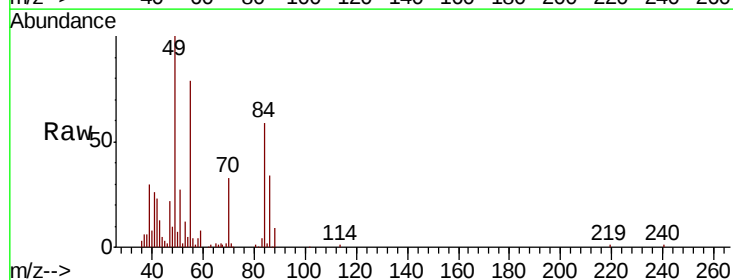
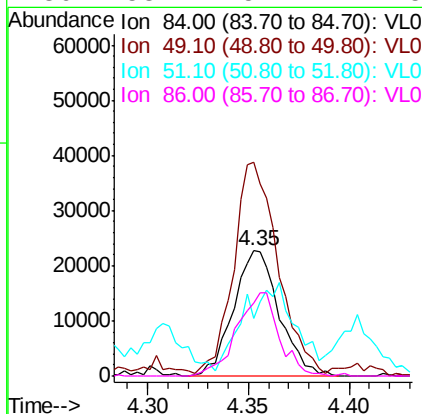
Manual Integrations
APPROVED

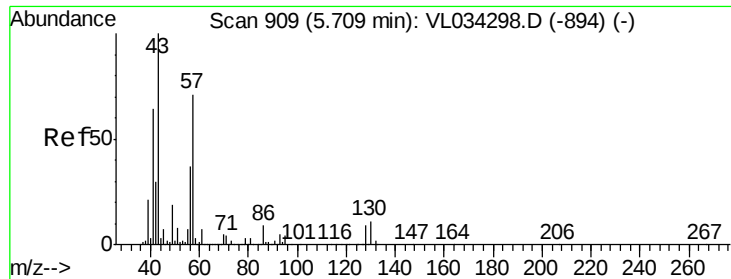
MMDadoda
10/22/2019 2:55:35 PM



#20
Methylene Chloride
Concen: 0.725 ppbv
RT: 4.35 min Scan# 487
Delta R.T. 0.01 min
Lab File: VL034327.D
Acq: 17 Oct 2019 22:02

Tgt Ion	84	49	51	86	Ratio	100	167.3	23.4	58.2	Resp	36112	Lower	Upper
84	100												
49		167.3										118.5	177.7
51		23.4										38.8	58.2#
86		58.2										51.7	77.5





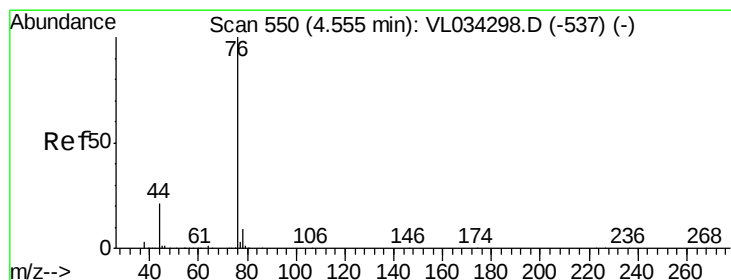
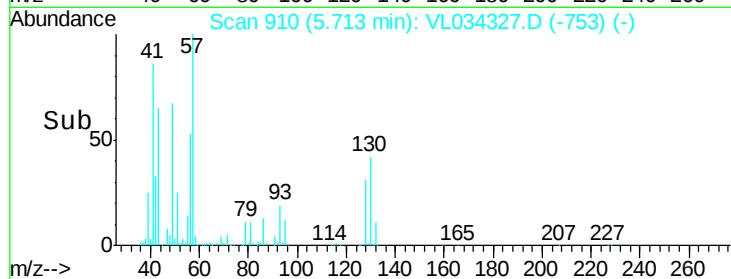
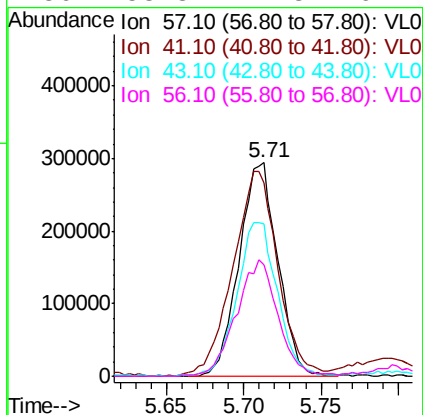
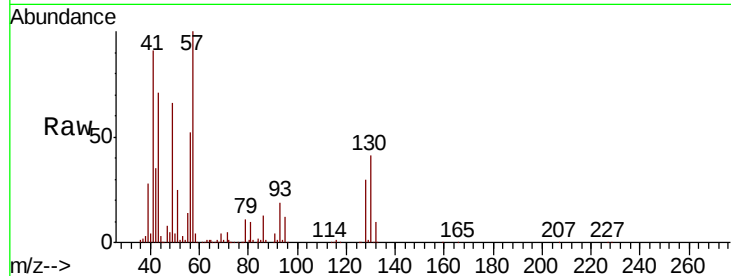
#26
Hexane
Concen: 5.173 ppbv
RT: 5.71 min Scan# 910
Delta R.T. 0.00 min
Lab File: VL034327.D
Acq: 17 Oct 2019 22:02

Instrument :
MSVOA_L
ClientSampled :
SV2

Tot Ion	Ratio	Lower	Upper
57	100		
41	110.7	76.5	114.7
43	74.8	188.5	282.7#
56	58.3	42.8	64.2

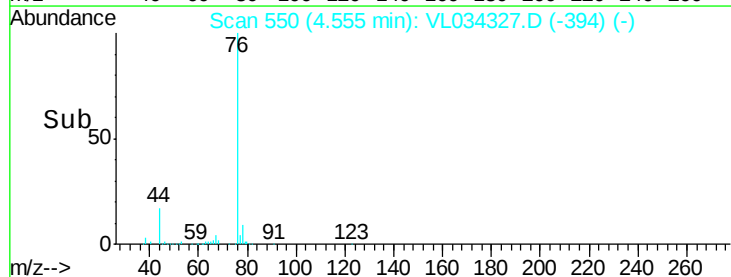
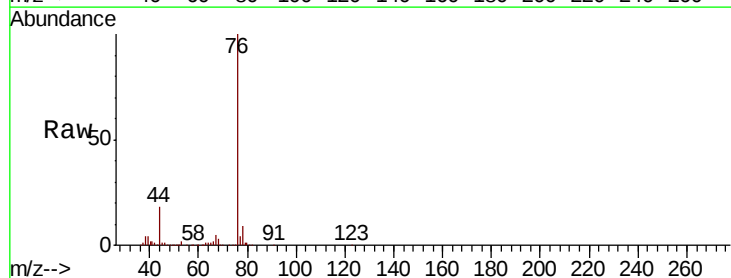
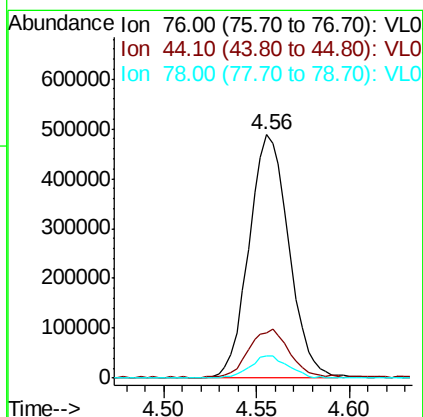
Manual Integrations
APPROVED

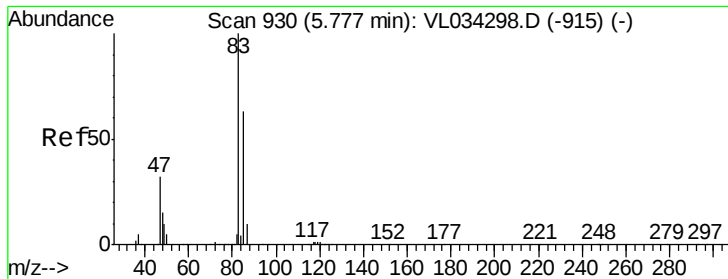
MMDadoda
10/22/2019 2:55:35 PM



#27
Carbon Disulfide
Concen: 7.079 ppbv
RT: 4.56 min Scan# 550
Delta R.T. 0.00 min
Lab File: VL034327.D
Acq: 17 Oct 2019 22:02

Tgt Ion	Ratio	Lower	Upper
76	100		
44	20.5	17.3	25.9
78	9.0	7.8	11.6





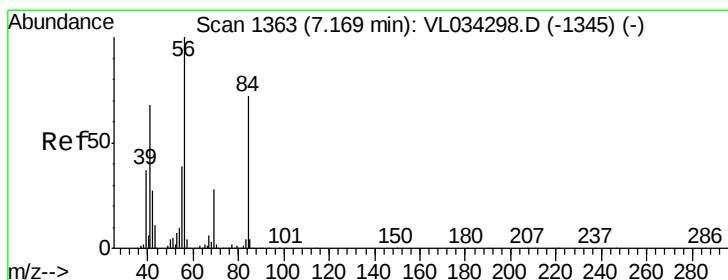
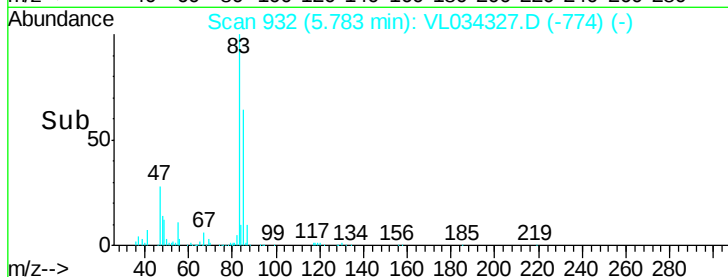
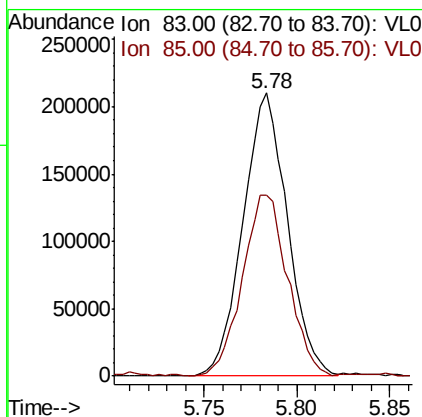
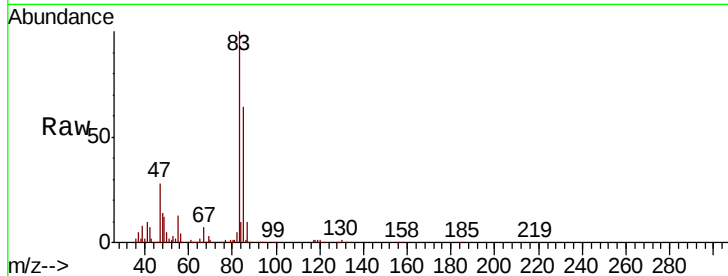
#29
Chloroform
Concen: 2.227 ppbv
RT: 5.78 min Scan# 932
Delta R.T. 0.01 min
Lab File: VL034327.D
Acq: 17 Oct 2019 22:02

Instrument :
MSVOA_L
ClientSampled :
SV2

Tot Ion	83	Resp	349077
Ion Ratio	100	Lower	Upper
83	100		
85	63.7	50.5	75.7

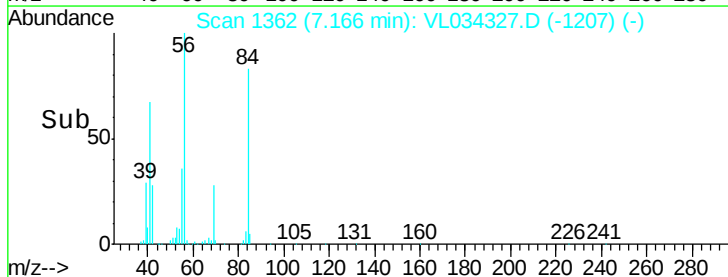
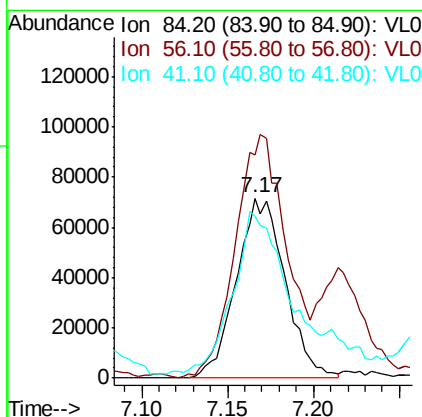
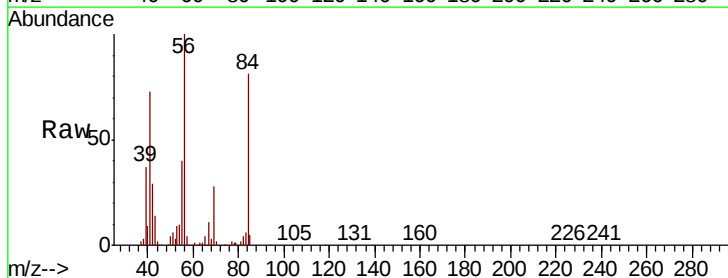
Manual Integrations
APPROVED

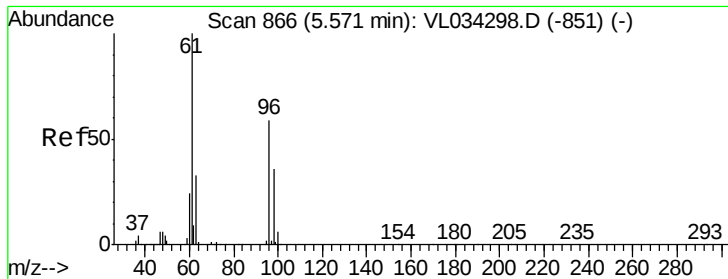
MMDadoda
10/22/2019 2:55:35 PM



#30
Cyclohexane
Concen: 1.911 ppbv
RT: 7.17 min Scan# 1362
Delta R.T. -0.00 min
Lab File: VL034327.D
Acq: 17 Oct 2019 22:02

Tgt Ion	84	Resp	139276
Ion Ratio	100	Lower	Upper
84	100		
56	143.3	119.4	179.0
41	121.2	78.7	118.1#





#31

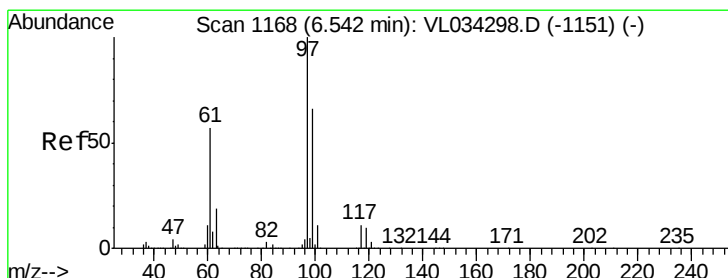
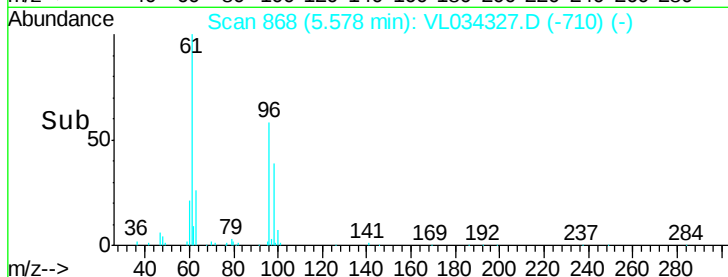
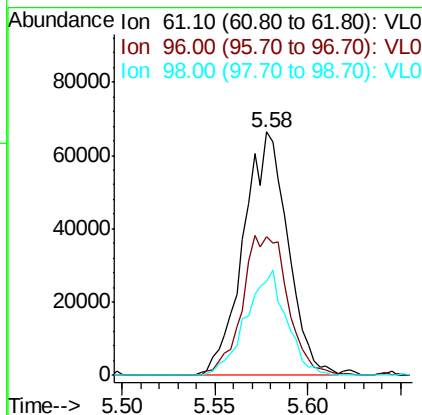
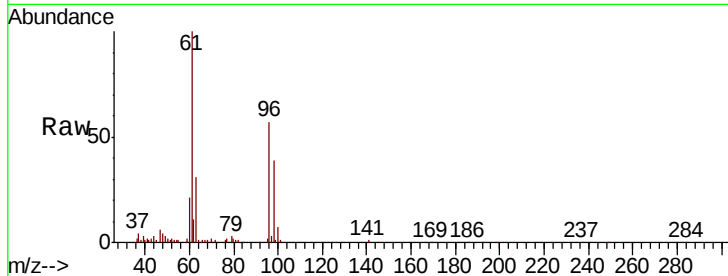
cis-1,2-Dichloroethene
 Concen: 1.099 ppbv
 RT: 5.58 min Scan# 868
 Delta R.T. 0.01 min
 Lab File: VL034327.D
 Acq: 17 Oct 2019 22:02

Instrument :
 MSVOA_L
 ClientSampled :
 SV2

Tot Ion	Ratio	Lower	Upper
61	100		
96	56.8	47.5	71.3
98	38.7	28.8	43.2

Manual Integrations
 APPROVED

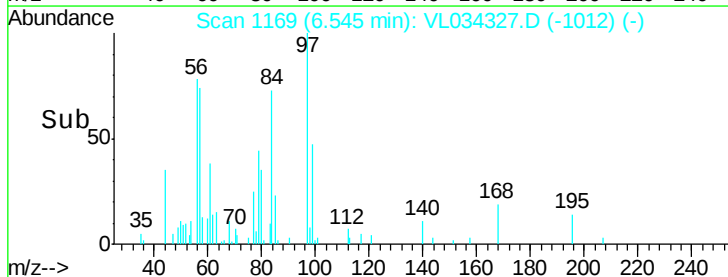
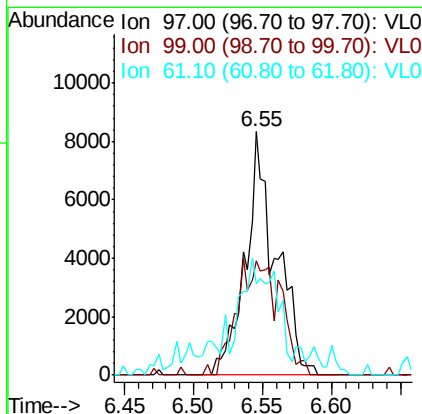
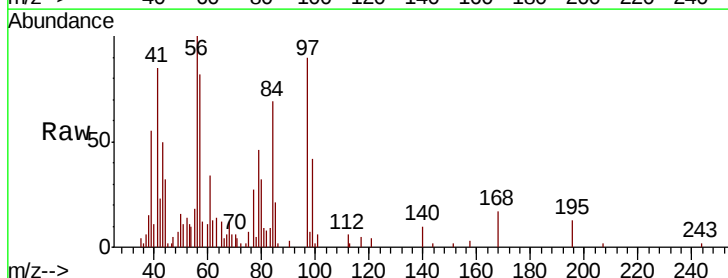
MMDadoda
 10/22/2019 2:55:35 PM

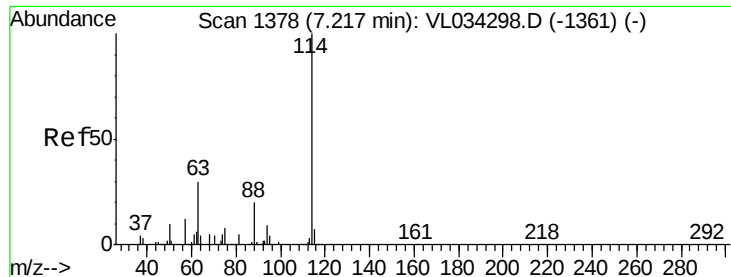


#32

1,1,1-Trichloroethane
 Concen: 0.084 ppbv m
 RT: 6.55 min Scan# 1169
 Delta R.T. 0.00 min
 Lab File: VL034327.D
 Acq: 17 Oct 2019 22:02

Tgt Ion	Ratio	Lower	Upper
97	100		
99	67.6	52.6	78.8
61	79.3	44.5	66.7#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.22 min Scan# 1379

Delta R.T. 0.00 min

Lab File: VL034327.D

Acq: 17 Oct 2019 22:02

Instrument :

MSVOA_L

ClientSampled :

SV2

Tot Ion:114 Resp: 1994680

Ion Ratio Lower Upper

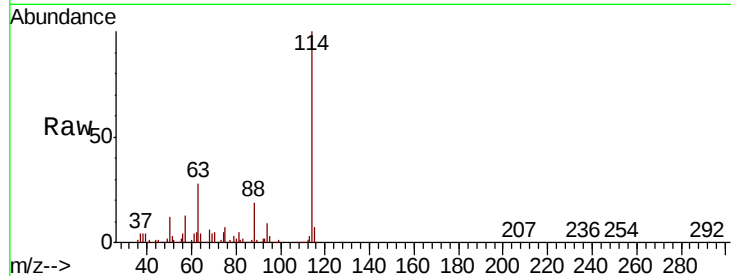
114 100

63 28.8 25.2 37.8

88 19.8 16.0 24.0

Manual Integrations
APPROVED

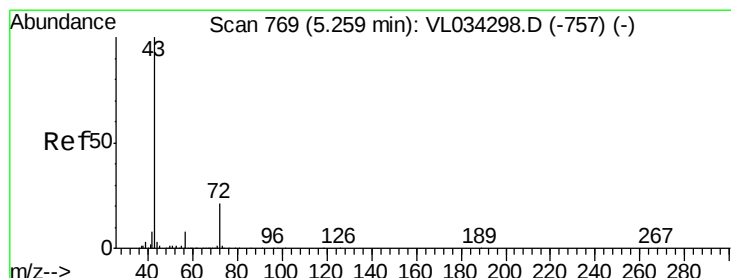
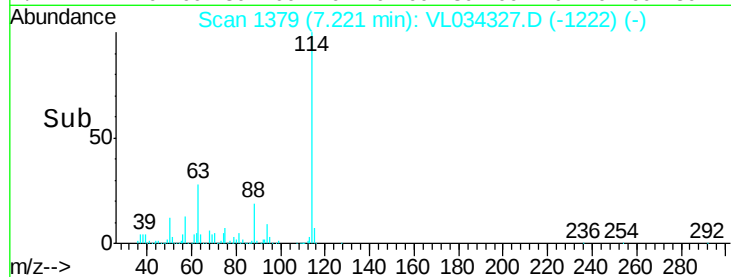
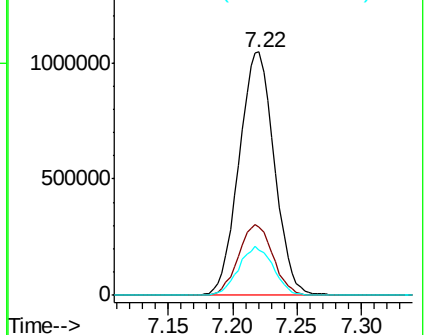
MMDadoda
10/22/2019 2:55:35 PM



Abundance Ion 114.10 (113.80 to 114.80): VL0

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 6.165 ppbv

RT: 5.26 min Scan# 770

Delta R.T. 0.00 min

Lab File: VL034327.D

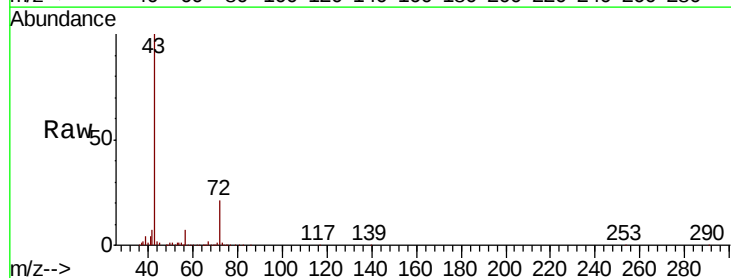
Acq: 17 Oct 2019 22:02

Tgt Ion: 43 Resp: 1005171

Ion Ratio Lower Upper

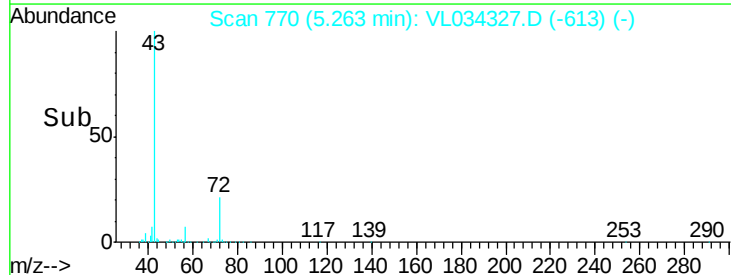
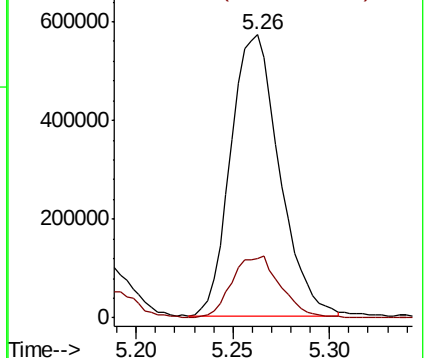
43 100

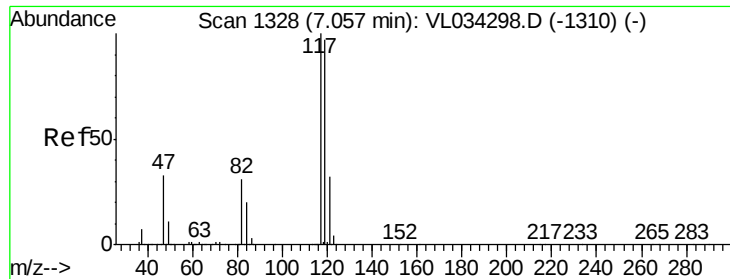
72 21.8 16.3 24.5



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





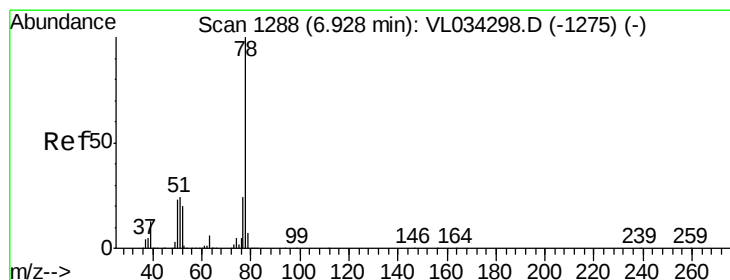
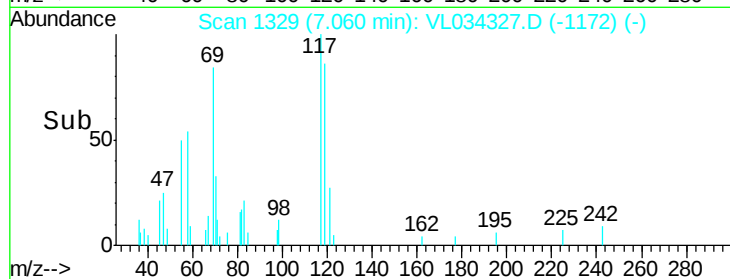
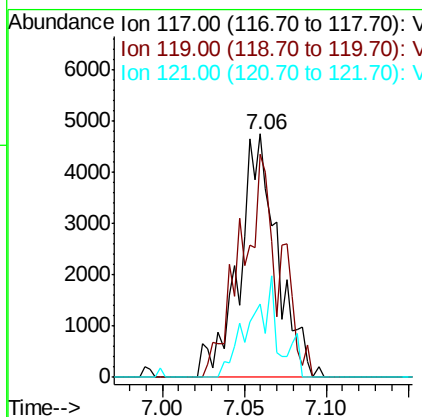
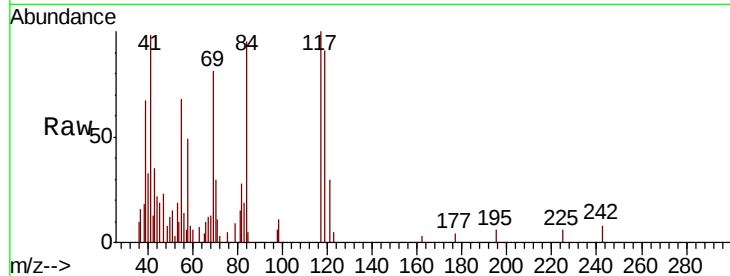
#35
Carbon Tetrachloride
Concen: 0.045 ppbv m
RT: 7.06 min Scan# 1329
Delta R.T. 0.00 min
Lab File: VL034327.D
Acq: 17 Oct 2019 22:02

Instrument :
MSVOA_L
ClientSampled :
SV2

Tot Ion	Ratio	Lower	Upper
117	100		
119	91.5	77.3	115.9
121	30.2	25.5	38.3

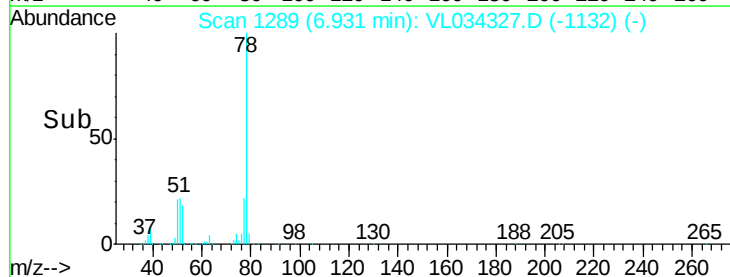
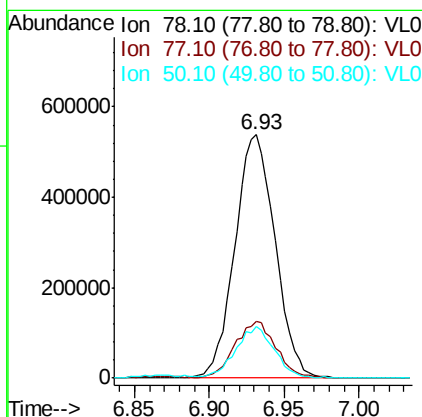
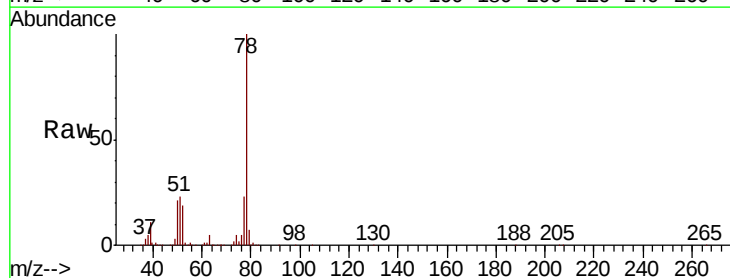
Manual Integrations
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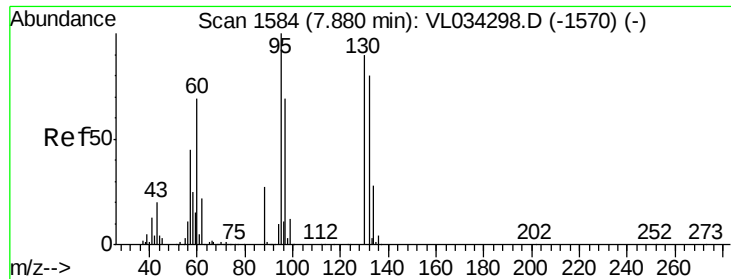
MMDadoda
10/22/2019 2:55:35 PM



#36
Benzene
Concen: 5.243 ppbv
RT: 6.93 min Scan# 1289
Delta R.T. 0.00 min
Lab File: VL034327.D
Acq: 17 Oct 2019 22:02

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.3	19.0	28.4
50	21.0	18.6	27.8





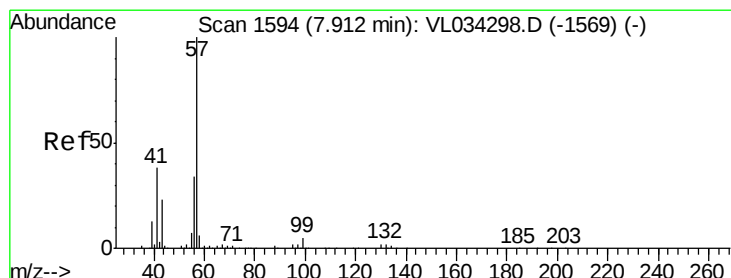
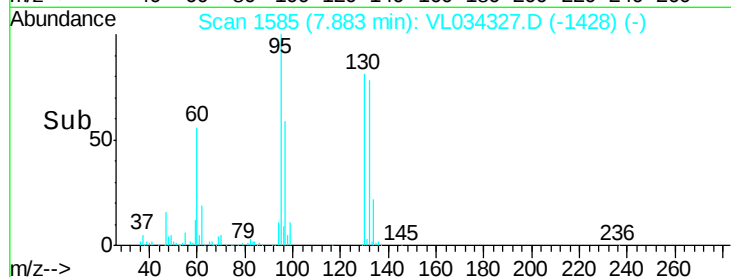
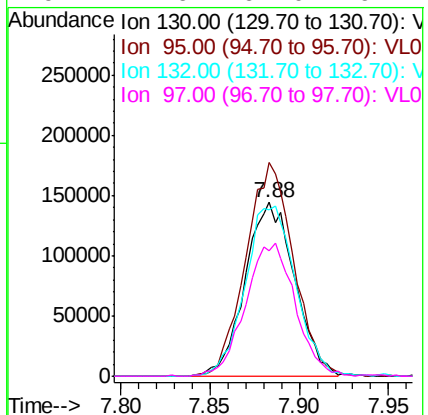
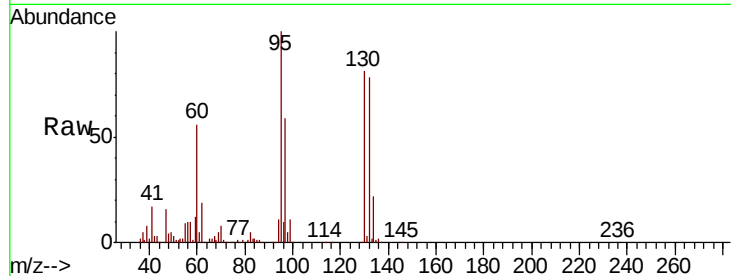
#38
 Trichloroethene
 Concen: 3.645 ppbv
 RT: 7.88 min Scan# 1585
 Delta R.T. 0.00 min
 Lab File: VL034327.D
 Acq: 17 Oct 2019 22:02

Instrument :
 MSVOA_L
 ClientSampled :
 SV2

Tot Ion	Ion	Ratio	Resp	Lower	Upper
130	100		279920		
95	122.6		88.6	132.8	
132	95.7		71.2	106.8	
97	71.6		61.0	91.4	

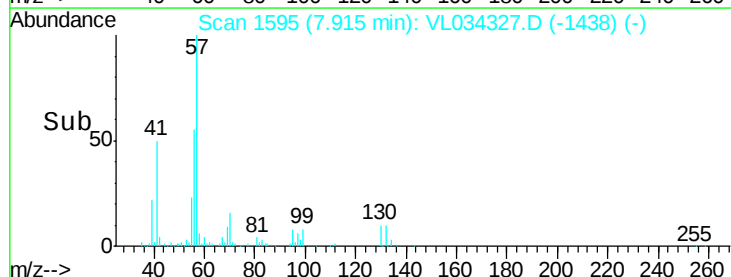
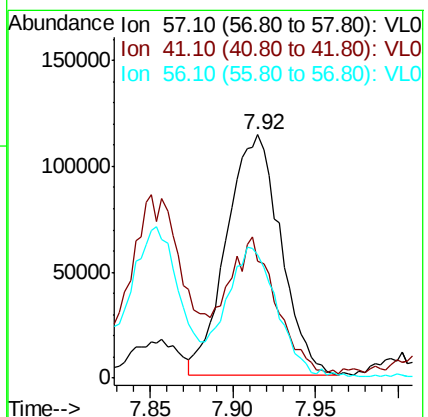
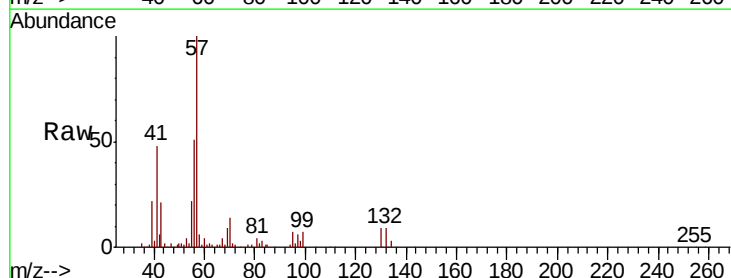
Manual Integrations
 APPROVED

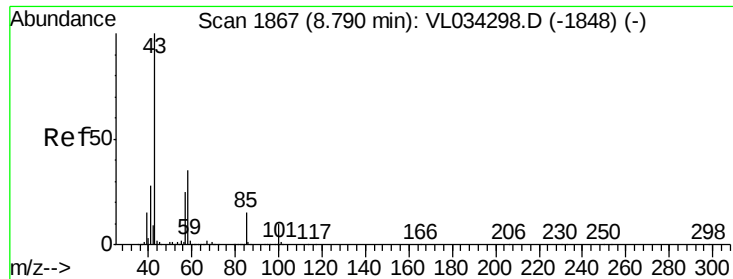
MMDadoda
 10/22/2019 2:55:35 PM



#44
 2,2,4-Trimethylpentane
 Concen: 0.727 ppbv
 RT: 7.92 min Scan# 1595
 Delta R.T. 0.00 min
 Lab File: VL034327.D
 Acq: 17 Oct 2019 22:02

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
57	100		257399		
41	57.5		29.3	43.9#	
56	52.0		25.3	37.9#	





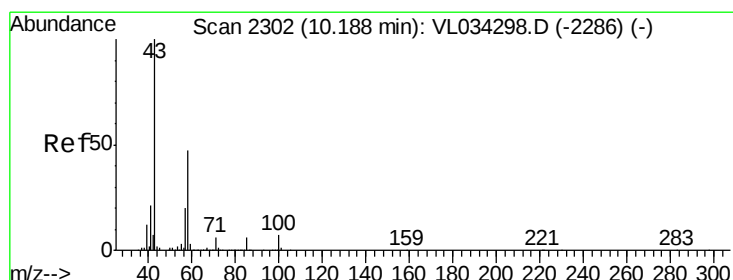
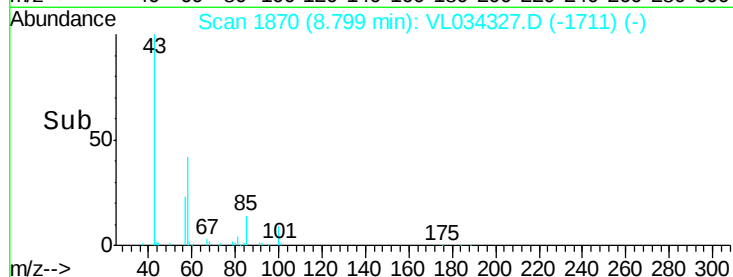
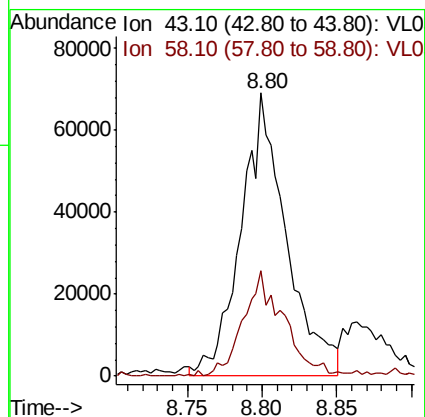
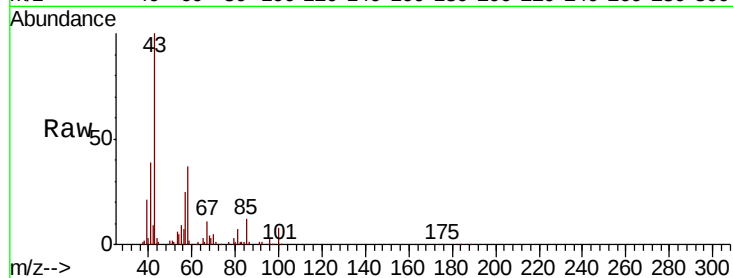
#50
 4-Methyl-2-Pentanone
 Concen: 0.625 ppbv m
 RT: 8.80 min Scan# 1870
 Delta R.T. 0.01 min
 Lab File: VL034327.D
 Acq: 17 Oct 2019 22:02

Instrument :
 MSVOA_L
 ClientSampled :
 SV2

Tot Ion	Ratio	Lower	Upper
43	100		
58	0.0	27.6	41.4#

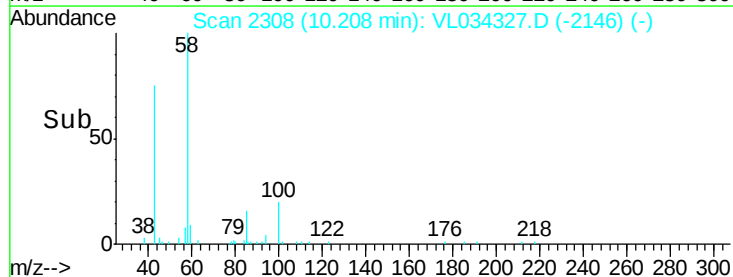
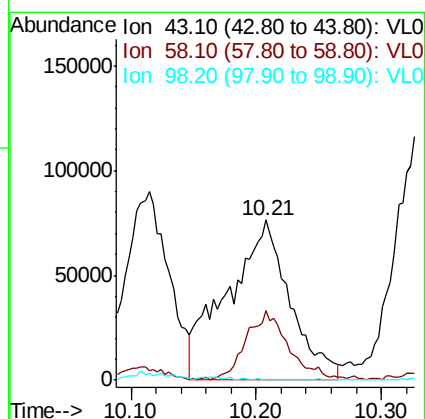
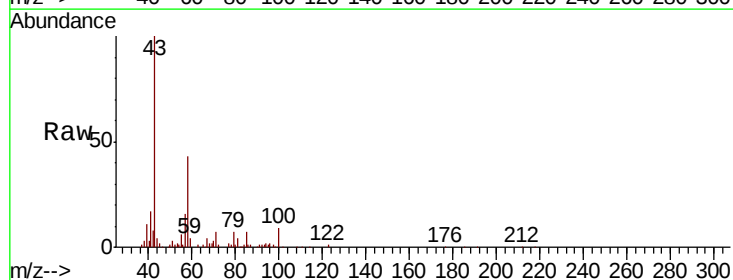
Manual Integrations
 APPROVED

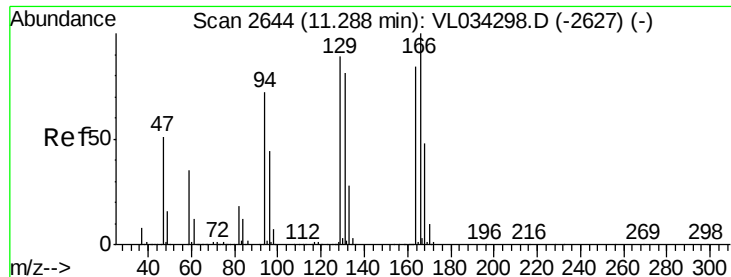
MMDadoda
 10/22/2019 2:55:35 PM



#51
 2-Hexanone
 Concen: 1.390 ppbv m
 RT: 10.21 min Scan# 2308
 Delta R.T. 0.02 min
 Lab File: VL034327.D
 Acq: 17 Oct 2019 22:02

Tgt Ion	Ratio	Lower	Upper
43	100		
58	0.0	37.0	55.6#
98	0.0	0.2	0.2#





#52
Tetrachloroethene
Concen: 362.198 ppbv
RT: 11.38 min Scan# 2673
Delta R.T. 0.09 min
Lab File: VL034327.D
Acq: 17 Oct 2019 22:02

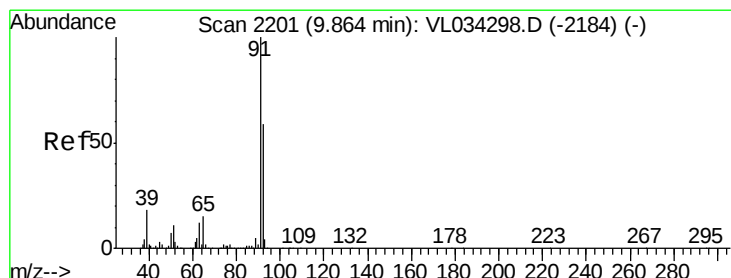
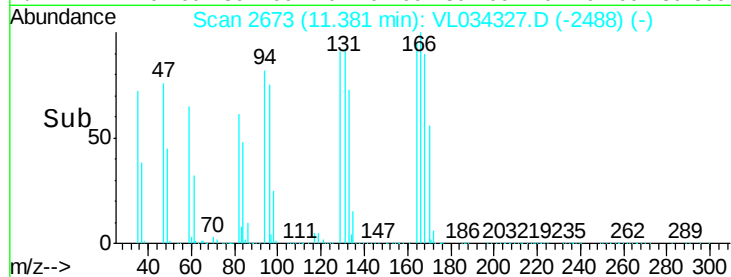
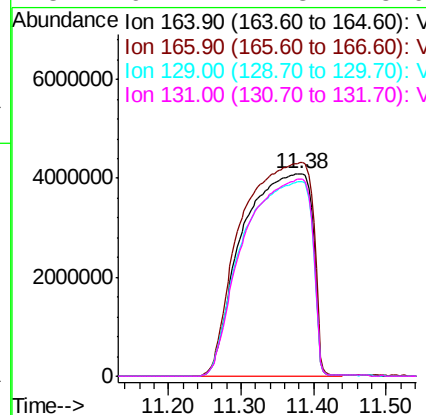
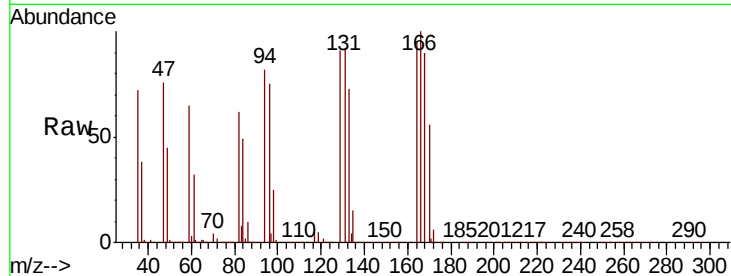
Instrument :
MSVOA_L
ClientSampleId :
SV2

Tot Ion:164 Resp:27171202

Ion	Ratio	Lower	Upper
164	100		
166	105.2	95.3	142.9
129	96.3	84.5	126.7
131	97.2	77.3	115.9

Manual Integrations
APPROVED

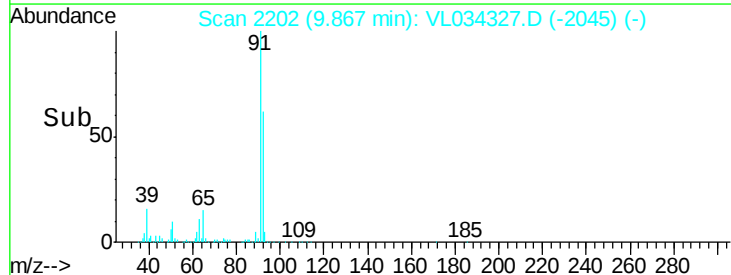
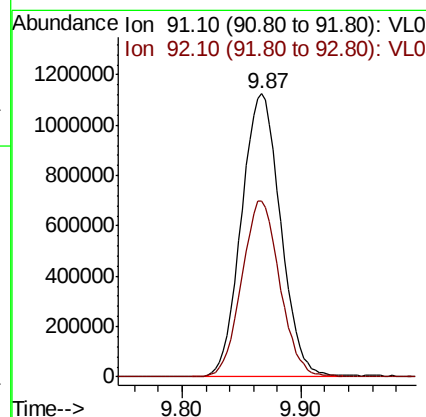
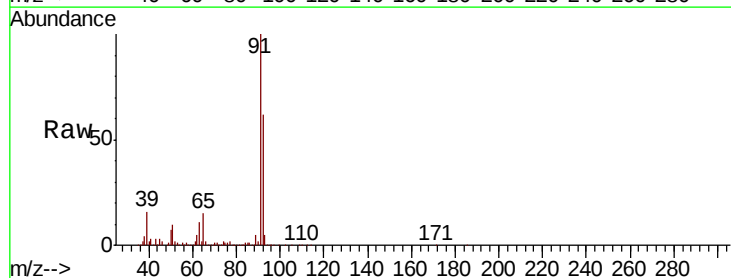
MMDadoda
10/22/2019 2:55:35 PM

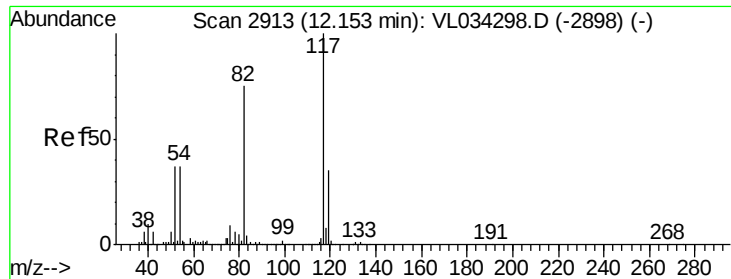


#53
Toluene
Concen: 12.112 ppbv
RT: 9.87 min Scan# 2202
Delta R.T. 0.00 min
Lab File: VL034327.D
Acq: 17 Oct 2019 22:02

Tgt Ion: 91 Resp: 2558229

Ion	Ratio	Lower	Upper
91	100		
92	60.9	48.4	72.6





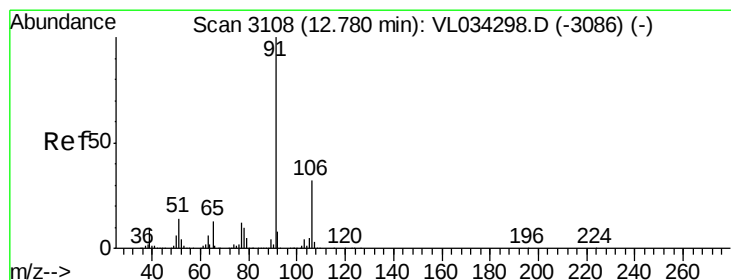
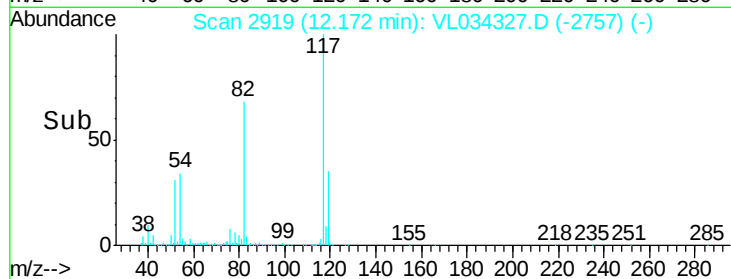
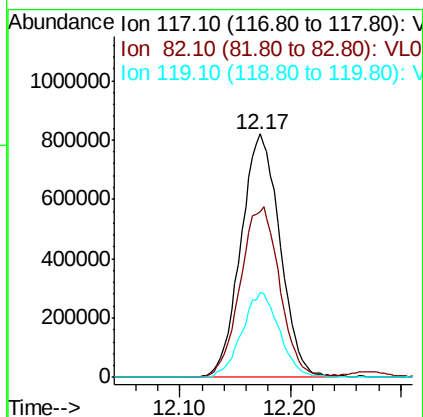
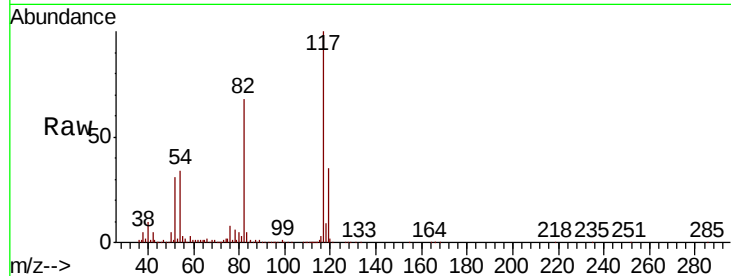
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.17 min Scan# 2919
Delta R.T. 0.02 min
Lab File: VL034327.D
Acq: 17 Oct 2019 22:02

Instrument :
MSVOA_L
ClientSampled :
SV2

Tot Ion	Ratio	Lower	Upper
117	100		
82	70.4	55.5	83.3
119	33.5	26.5	39.7

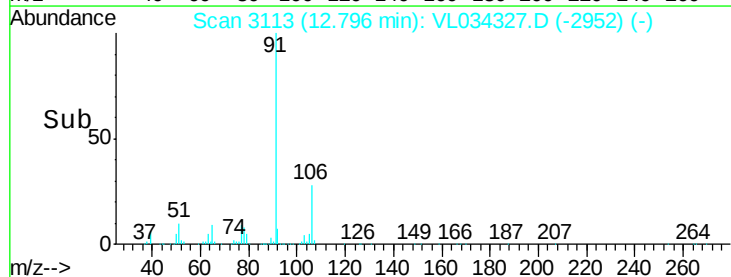
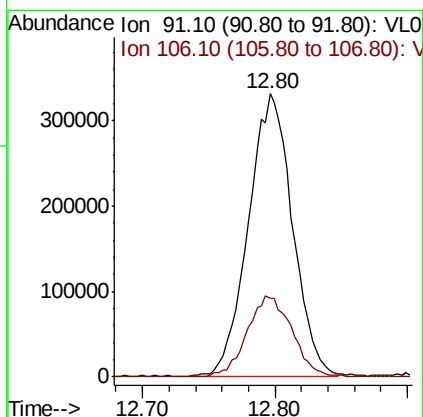
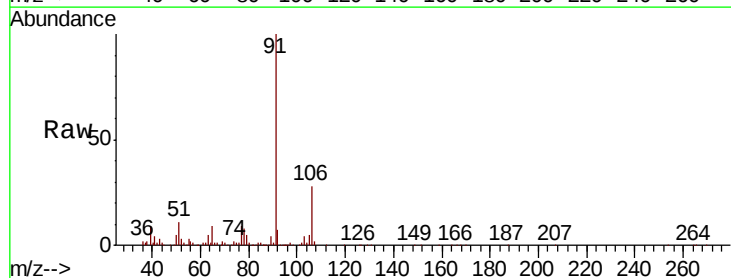
Manual Integrations
APPROVED

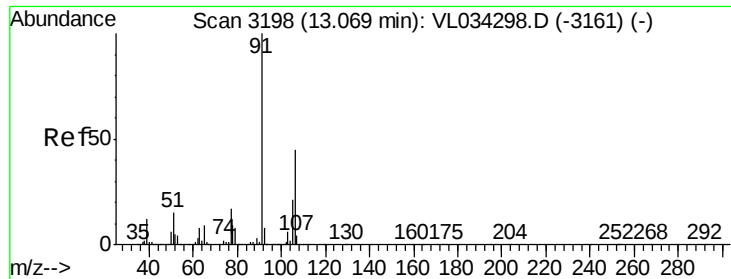
MMDadoda
10/22/2019 2:55:35 PM



#58
Ethyl Benzene
Concen: 2.718 ppbv
RT: 12.80 min Scan# 3113
Delta R.T. 0.02 min
Lab File: VL034327.D
Acq: 17 Oct 2019 22:02

Tgt Ion	Ratio	Lower	Upper
91	100		
106	27.7	25.3	37.9





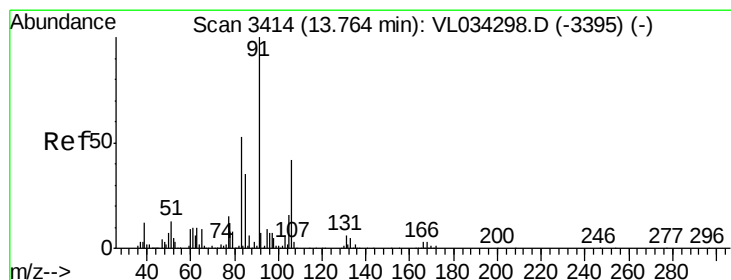
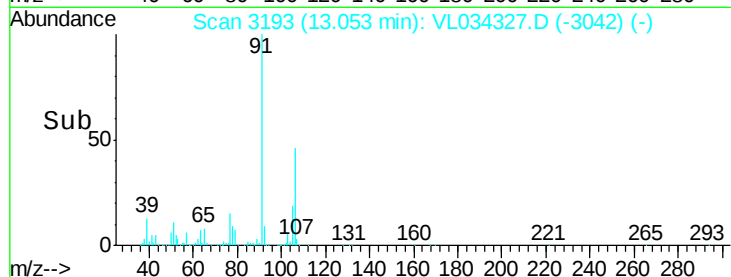
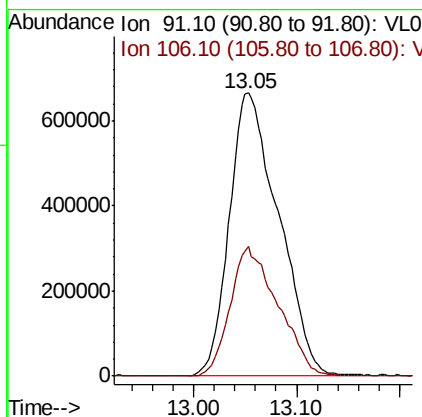
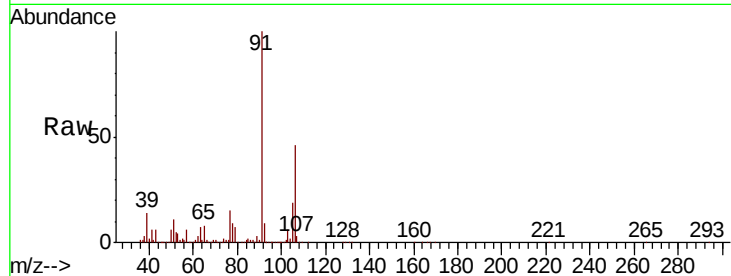
#59
m/p-Xylene
Concen: 9.025 ppbv
RT: 13.05 min Scan# 3193
Delta R.T. -0.02 min
Lab File: VL034327.D
Acq: 17 Oct 2019 22:02

Instrument :
MSVOA_L
ClientSampled :
SV2

Tot Ion: 91 Resp: 2198893
Ion Ratio Lower Upper
91 100
106 44.7 35.4 53.2

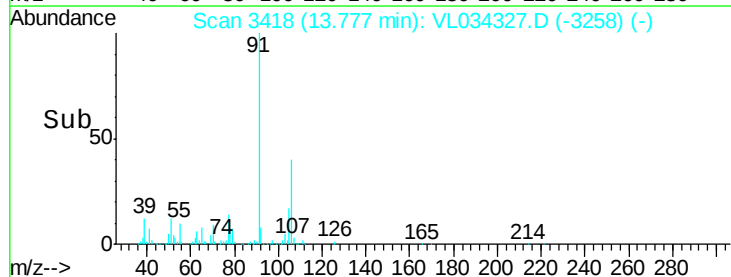
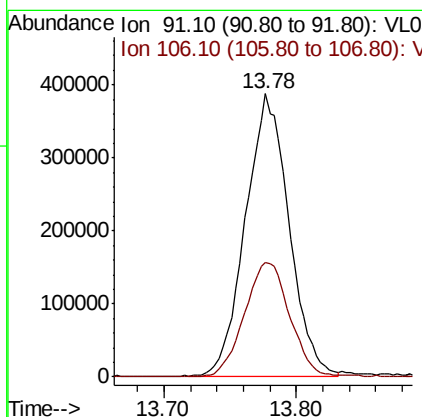
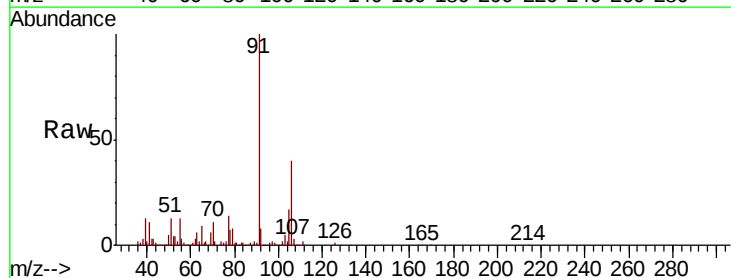
Manual Integrations
APPROVED

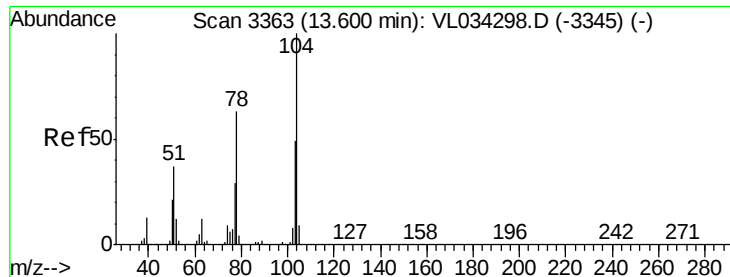
MMDadoda
10/22/2019 2:55:35 PM



#60
o-Xylene
Concen: 3.616 ppbv
RT: 13.78 min Scan# 3418
Delta R.T. 0.01 min
Lab File: VL034327.D
Acq: 17 Oct 2019 22:02

Tgt Ion: 91 Resp: 877369
Ion Ratio Lower Upper
91 100
106 42.8 21.6 64.6





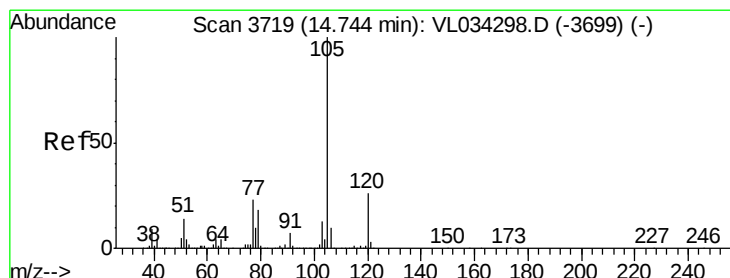
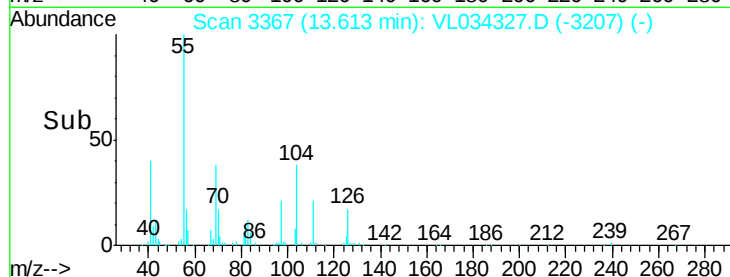
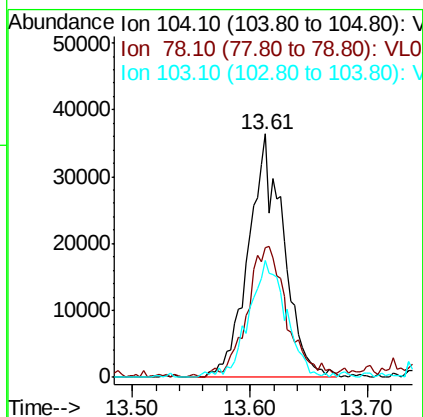
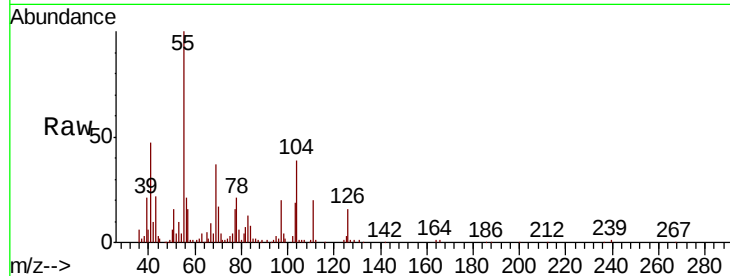
#61
Stvrene
Concen: 0.443 ppbv m
RT: 13.61 min Scan# 3367
Delta R.T. 0.01 min
Lab File: VL034327.D
Acq: 17 Oct 2019 22:02

Instrument :
MSVOA_L
ClientSampled :
SV2

Tot Ion	Ratio	Lower	Upper
104	100		
78	62.3	47.8	71.8
103	0.0	39.0	58.6#

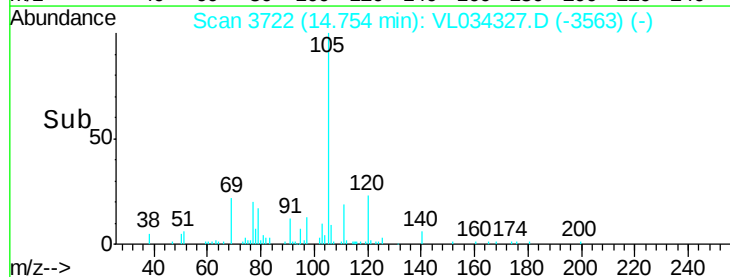
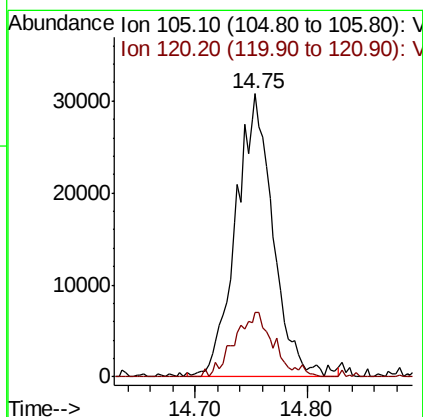
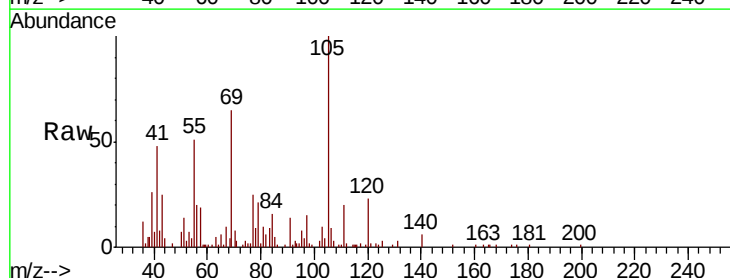
Manual Integrations
APPROVED

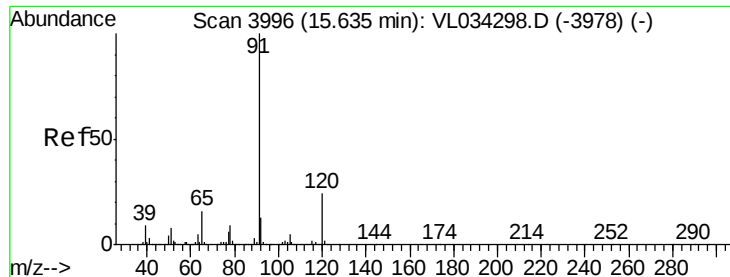
MMDadoda
10/22/2019 2:55:35 PM



#62
Isopropylbenzene
Concen: 0.224 ppbv m
RT: 14.75 min Scan# 3722
Delta R.T. 0.01 min
Lab File: VL034327.D
Acq: 17 Oct 2019 22:02

Tgt Ion	Ratio	Lower	Upper
105	100		
120	24.0	20.8	31.2





#64

n-propylbenzene

Concen: 0.750 ppbv m

RT: 15.64 min Scan# 3998

Delta R.T. 0.01 min

Lab File: VL034327.D

Acq: 17 Oct 2019 22:02

Instrument :

MSVOA_L

ClientSampled :

SV2

Tot Ion:120 Resp: 61628

Ion Ratio Lower Upper

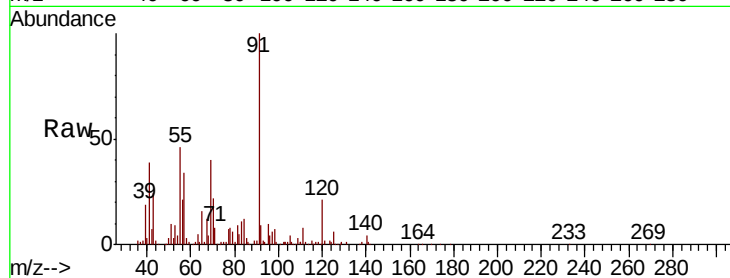
120 100

91 0.0 374.9 562.3#

Manual Integrations
APPROVED

MMDadoda

10/22/2019 2:55:35 PM



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

150000

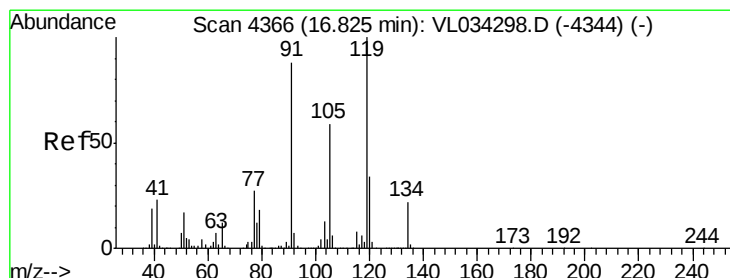
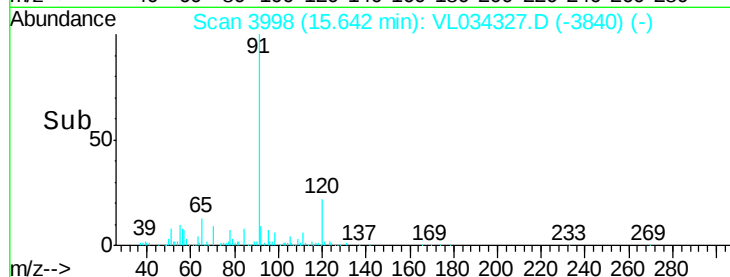
100000

50000

0

15.60 15.70

Time-->



#65

tert-Butylbenzene

Concen: 0.376 ppbv m

RT: 16.85 min Scan# 4375

Delta R.T. 0.03 min

Lab File: VL034327.D

Acq: 17 Oct 2019 22:02

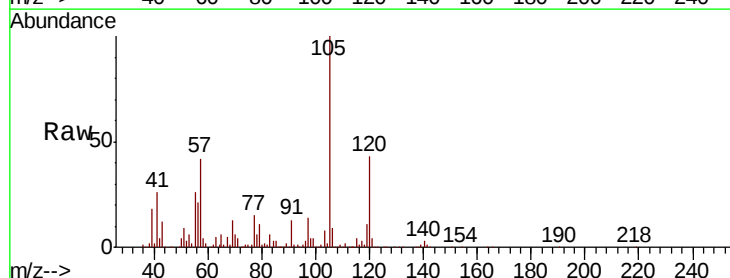
Tgt Ion:119 Resp: 106749

Ion Ratio Lower Upper

119 100

91 0.0 71.4 107.0#

134 0.0 15.9 23.9#



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

60000

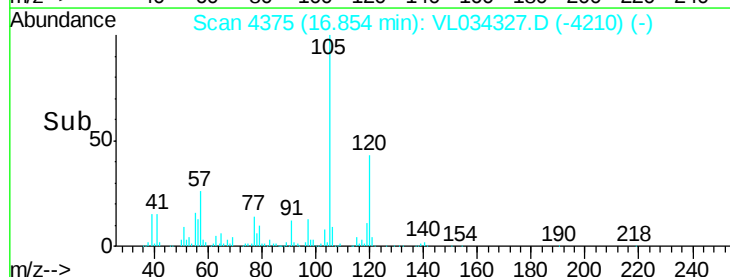
40000

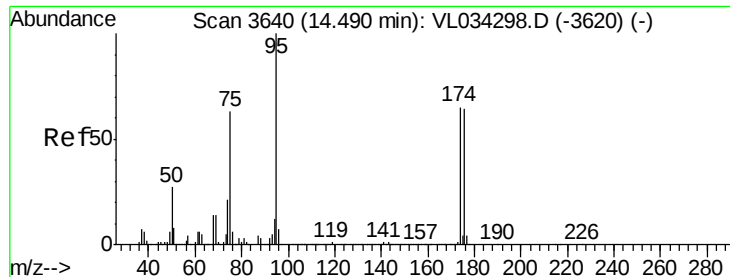
20000

0

16.80 16.90

Time-->





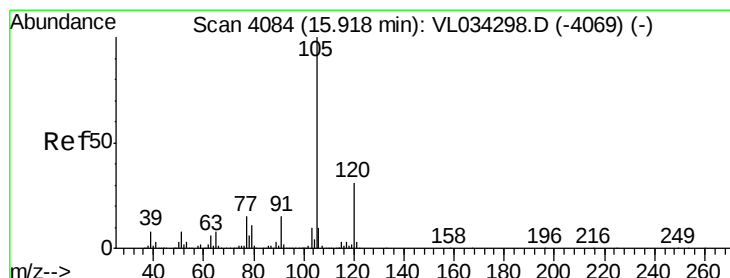
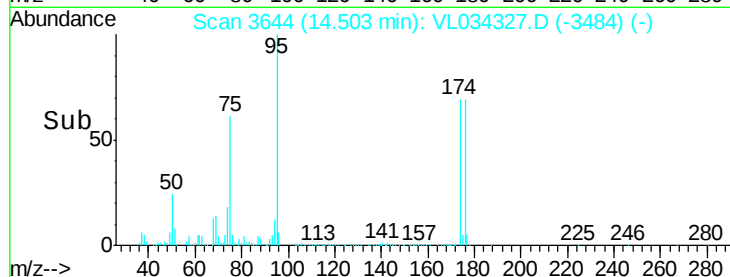
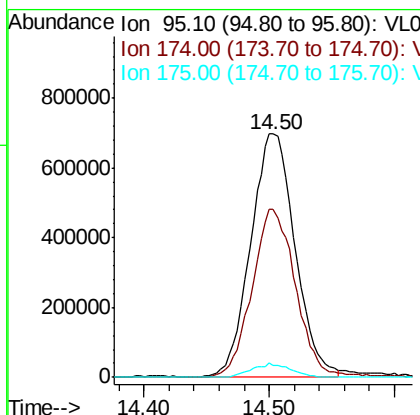
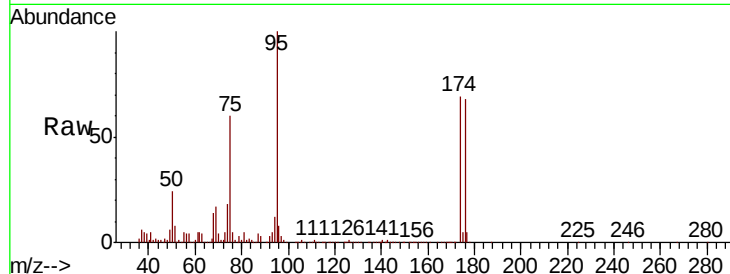
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.026 ppbv
 RT: 14.50 min Scan# 3644
 Delta R.T. 0.01 min
 Lab File: VL034327.D
 Acq: 17 Oct 2019 22:02

Instrument :
 MSVOA_L
 ClientSampled :
 SV2

Tot Ion: 95 Resp: 1708113
 Ion Ratio Lower Upper
 95 100
 174 69.0 52.6 78.8
 175 5.1 3.8 5.6

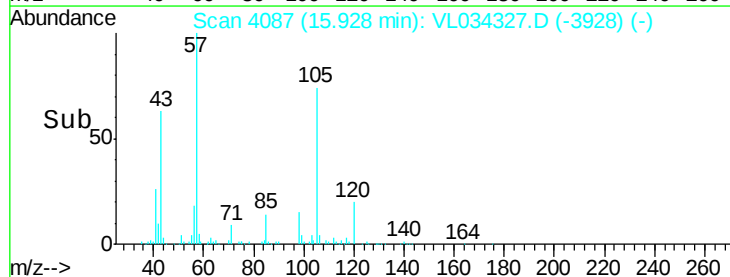
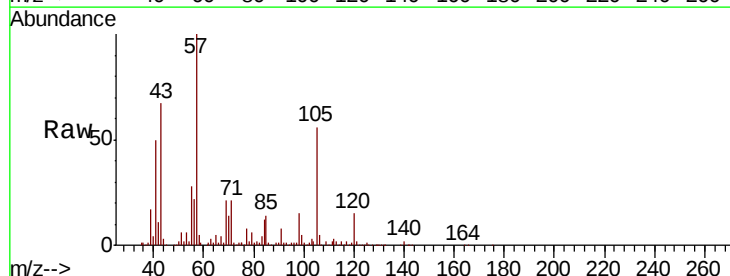
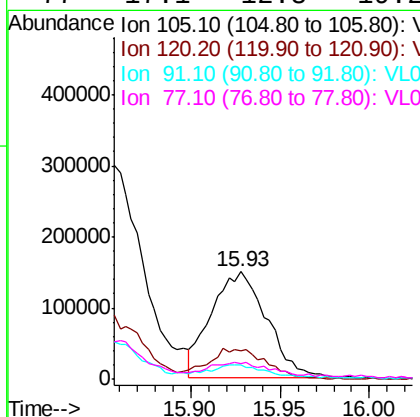
Manual Integrations
 APPROVED

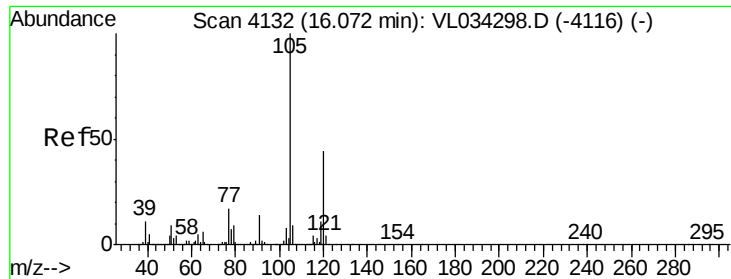
MMDadoda
 10/22/2019 2:55:35 PM



#72
 4-Ethyltoluene
 Concen: 1.183 ppbv
 RT: 15.93 min Scan# 4087
 Delta R.T. 0.01 min
 Lab File: VL034327.D
 Acq: 17 Oct 2019 22:02

Tgt Ion: 105 Resp: 322504
 Ion Ratio Lower Upper
 105 100
 120 30.1 23.8 35.8
 91 12.3 11.2 16.8
 77 17.1 12.8 19.2





#73

1,3,5-Trimethylbenzene

Concen: 1.047 ppbv m

RT: 16.08 min Scan# 4135

Delta R.T. 0.01 min

Lab File: VL034327.D

Acq: 17 Oct 2019 22:02

Instrument :

MSVOA_L

ClientSampled :

SV2

Tot Ion:105 Resp: 282979

Ion Ratio Lower Upper

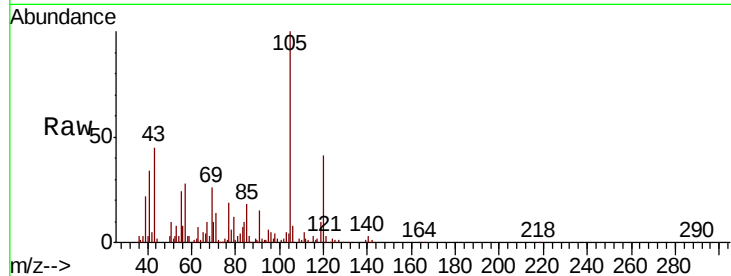
105 100

120 41.4 35.2 52.8

Manual Integrations
APPROVED

MMDadoda

10/22/2019 2:55:35 PM



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

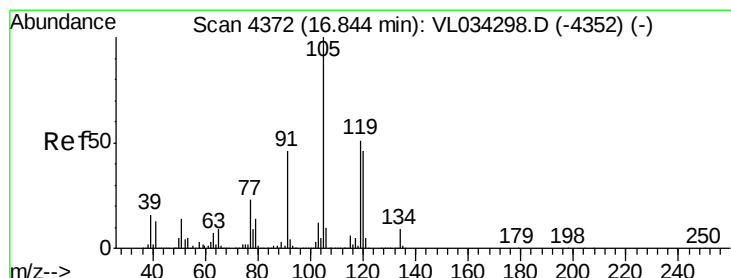
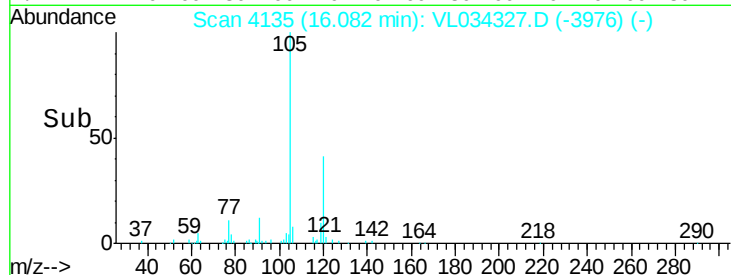
16.08

100000

50000

0

Time-->



#74

1,2,4-Trimethylbenzene

Concen: 3.410 ppbv

RT: 16.85 min Scan# 4375

Delta R.T. 0.01 min

Lab File: VL034327.D

Acq: 17 Oct 2019 22:02

Tgt Ion:105 Resp: 960841

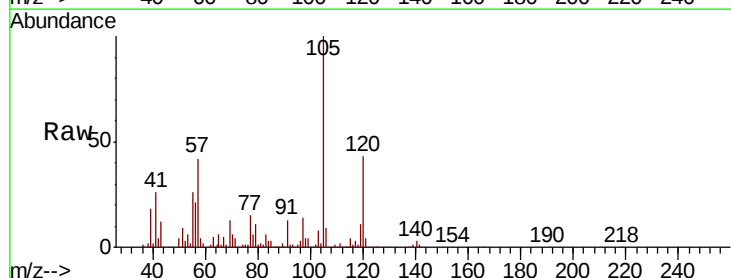
Ion Ratio Lower Upper

105 100

120 43.2 37.0 55.6

91 11.9 38.2 57.2#

77 14.5 19.0 28.4#



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

600000

500000

400000

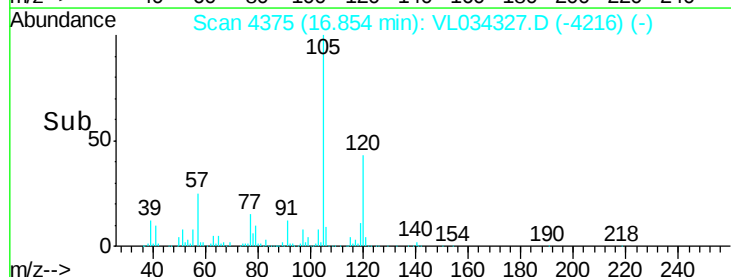
300000

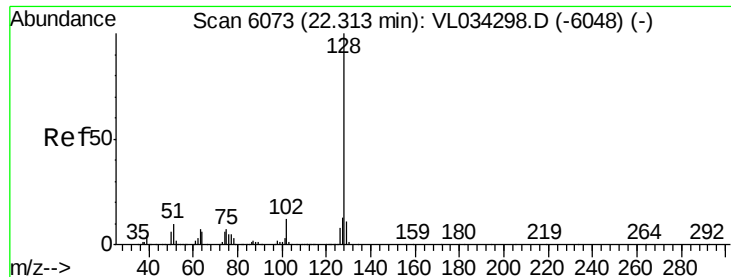
200000

100000

0

Time-->





#79

Naphthalene

Concen: 0.516 ppbv m

RT: 22.33 min Scan# 6077

Delta R.T. 0.01 min

Lab File: VL034327.D

Acq: 17 Oct 2019 22:02

Instrument :

MSVOA_L

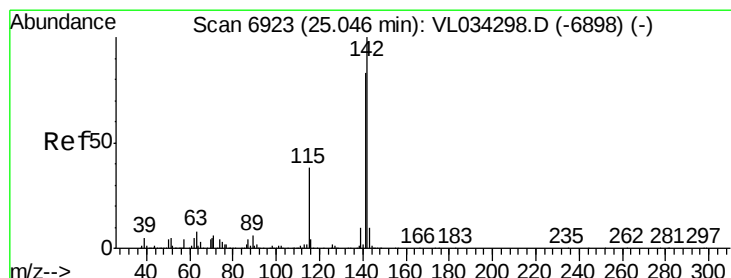
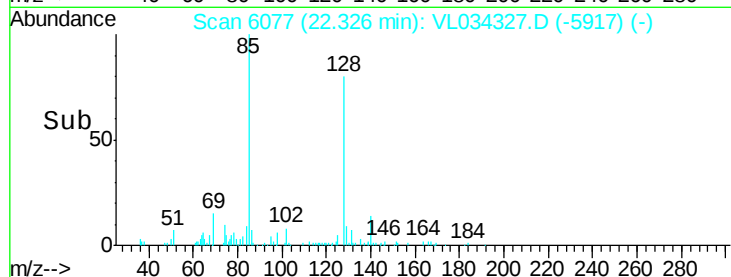
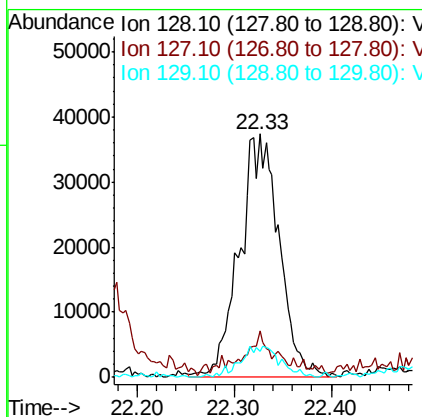
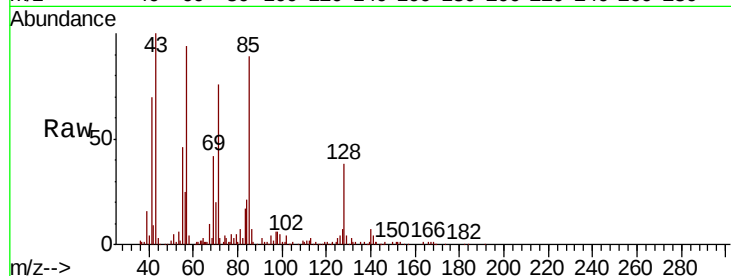
ClientSampled :

SV2

Tot Ion:	128	Resp:	106232
Ion Ratio		Lower	Upper
128	100		
127	19.0	10.2	15.4#
129	10.7	8.9	13.3

Manual Integrations
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10/22/2019 2:55:35 PM



#80

Naphthalene, 2-methyl-

Concen: 0.211 ppbv

RT: 25.04 min Scan# 6922

Delta R.T. -0.00 min

Lab File: VL034327.D

Acq: 17 Oct 2019 22:02

Tgt Ion:	142	Resp:	12581
Ion Ratio		Lower	Upper
142	100		
141	88.5	65.7	98.5
115	57.2	30.9	46.3#

