

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL111620\
 Data File : VL035960.D
 Acq On : 17 Nov 2020 1:51
 Operator : SY/AP
 Sample : L4722-07DUP
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SR-7DUP

Manual Integrations
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 11/18/2020 9:08:27 AM

Quant Time: Nov 17 22:26:26 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL110320AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Nov 0
 QLast Update : Wed Nov 04 02:40:06 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1141300	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	3952275	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	3659829	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	2787519	10.72	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	107.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	54491	0.254	ppbv	96
3) Chlorodifluoromethane	2.98	51	67491	0.494	ppbv #	88
4) Chloromethane	3.14	50	41508m	0.625	ppbv	
9) Propene	3.02	41	45951	0.919	ppbv	88
11) Trichlorofluoromethane	3.95	101	66549	0.247	ppbv	94
13) Ethanol	3.61	45	178671m	16.464	ppbv	
15) Acetone	3.85	43	1018957	8.351	ppbv	94
19) Isopropyl Alcohol	3.98	45	79257	1.057	ppbv #	64
20) Methylene Chloride	4.34	84	96875	1.128	ppbv	96
23) Vinyl Acetate	5.06	43	149729	0.875	ppbv #	88
26) Hexane	5.69	57	207675	1.567	ppbv #	48
34) 2-Butanone	5.25	43	173235	1.351	ppbv	99
35) Carbon Tetrachloride	7.01	117	14605	0.069	ppbv #	80
36) Benzene	6.89	78	62595m	0.213	ppbv	
44) 2,2,4-Trimethylpentane	7.87	57	50639	0.130	ppbv #	58
53) Toluene	9.81	91	447662	1.263	ppbv	99
59) m/p-Xylene	12.98	91	68466m	0.182	ppbv	

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 896

Delta R.T. 0.00 min

Lab File: VL035960.D

Acq: 17 Nov 2020 1:51

Instrument :

MSVOA_L

ClientSampleId :

SR-7DUP

Tot Ion: 49 Resp: 1141300

Ion Ratio Lower Upper

49 100

128 76.0 41.5 124.6

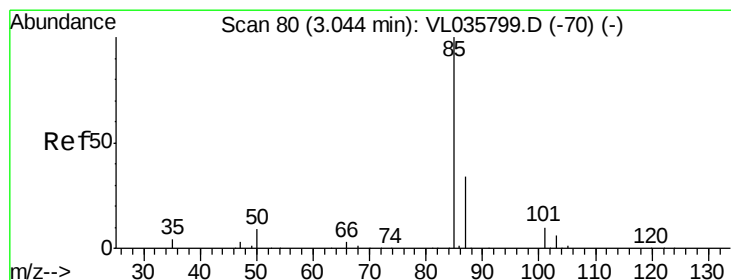
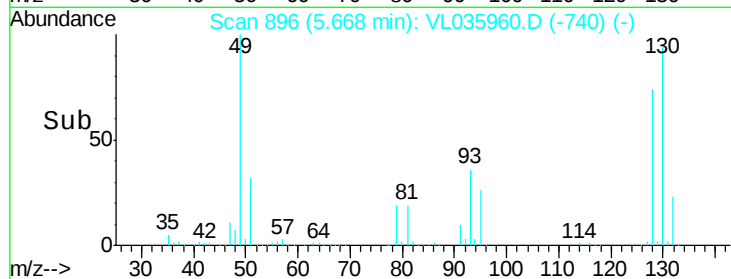
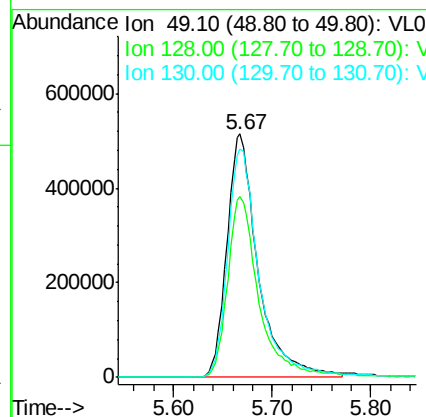
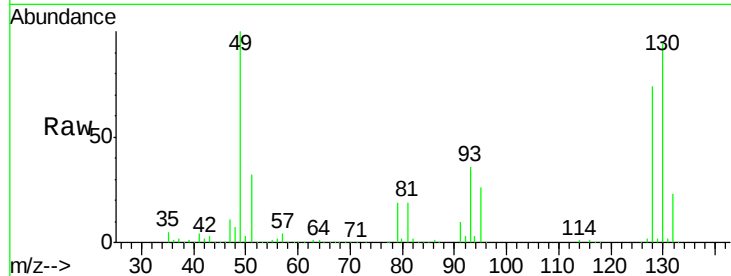
130 97.1 53.7 161.1

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#2

Dichlorodifluoromethane

Concen: 0.254 ppbv

RT: 3.04 min Scan# 80

Delta R.T. 0.00 min

Lab File: VL035960.D

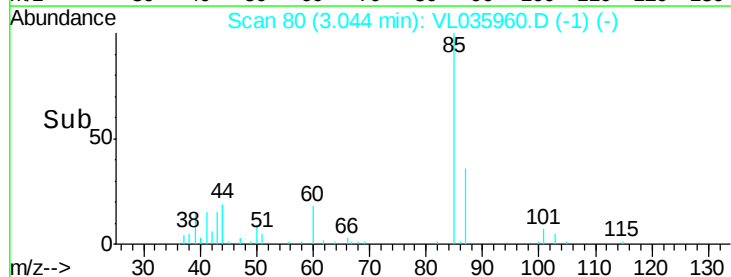
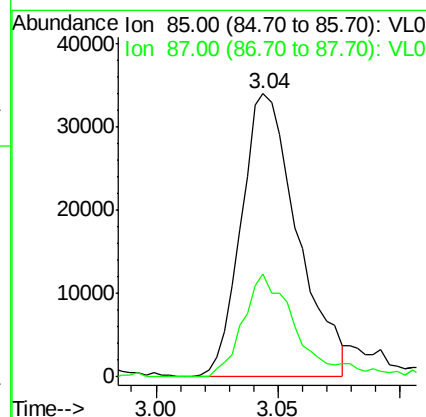
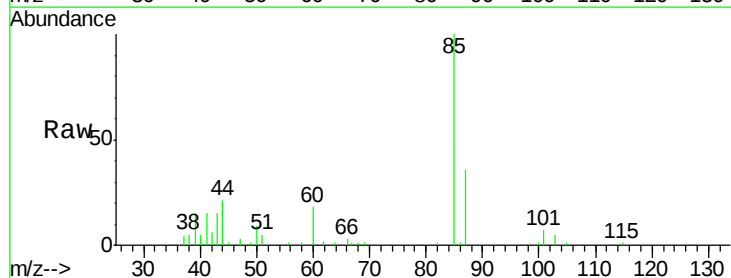
Acq: 17 Nov 2020 1:51

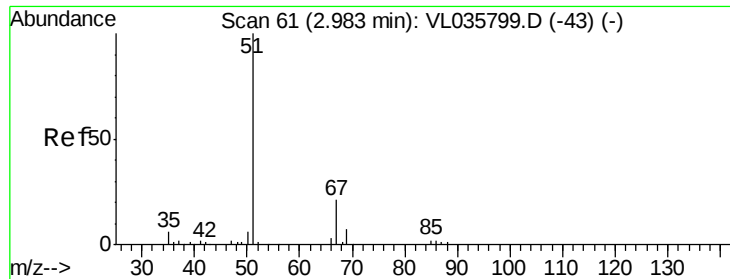
Tgt Ion: 85 Resp: 54491

Ion Ratio Lower Upper

85 100

87 36.2 27.1 40.7





#3

Chlorodifluoromethane

Concen: 0.494 ppbv

RT: 2.98 min Scan# 61

Delta R.T. 0.00 min

Lab File: VL035960.D

Acq: 17 Nov 2020 1:51

Instrument :

MSVOA_L

ClientSampleId :

SR-7DUP

Tot Ion: 51 Resp: 67491

Ion Ratio Lower Upper

51 100

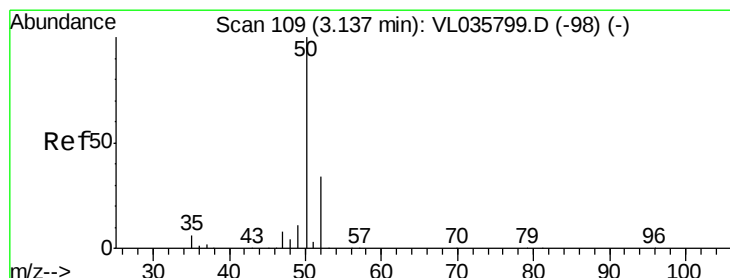
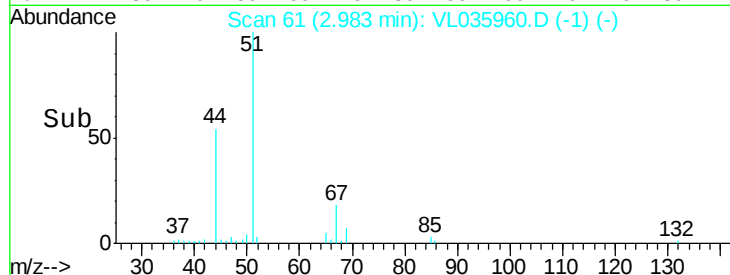
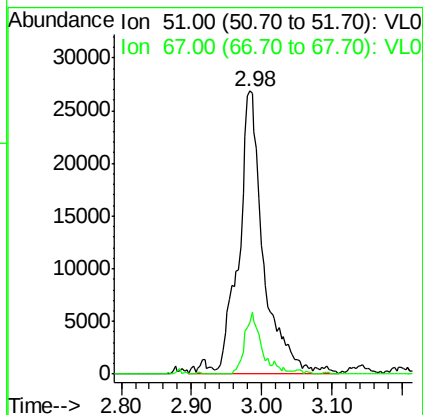
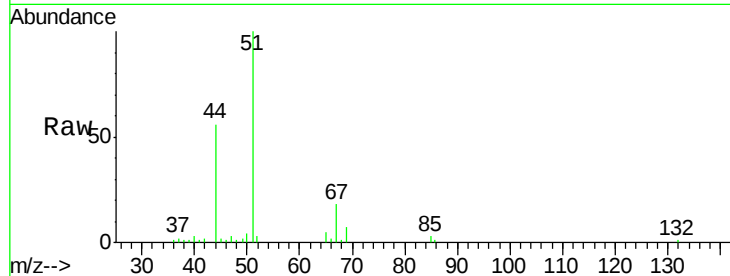
67 15.4 17.0 25.4#

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#4

Chloromethane

Concen: 0.625 ppbv m

RT: 3.14 min Scan# 109

Delta R.T. 0.00 min

Lab File: VL035960.D

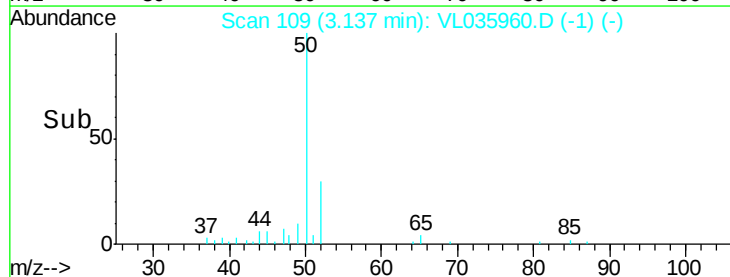
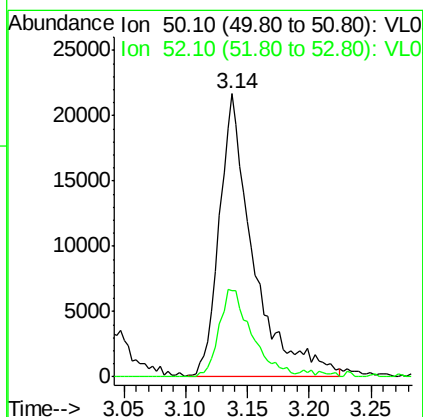
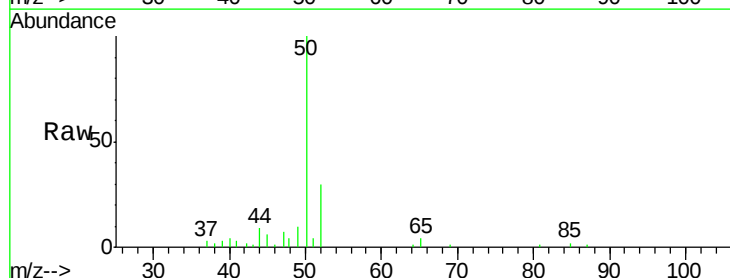
Acq: 17 Nov 2020 1:51

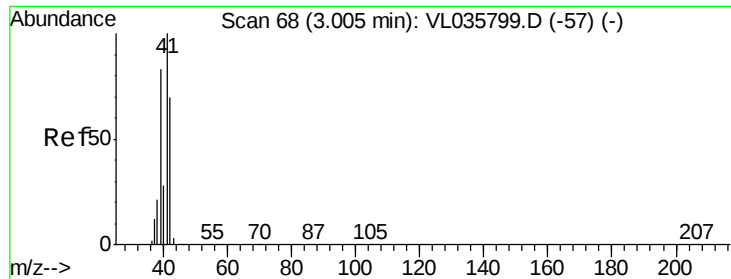
Tgt Ion: 50 Resp: 41508

Ion Ratio Lower Upper

50 100

52 30.5 27.1 40.7





#9

Propene

Concen: 0.919 ppbv

RT: 3.02 min Scan# 72

Delta R.T. 0.01 min

Lab File: VL035960.D

Acq: 17 Nov 2020 1:51

Instrument :

MSVOA_L

ClientSampled :

SR-7DUP

Tot Ion: 41 Resp: 45951

Ion Ratio Lower Upper

41 100

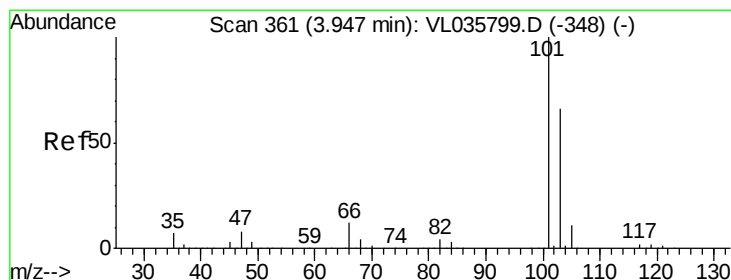
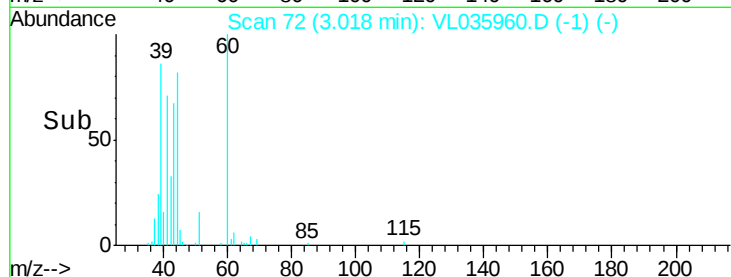
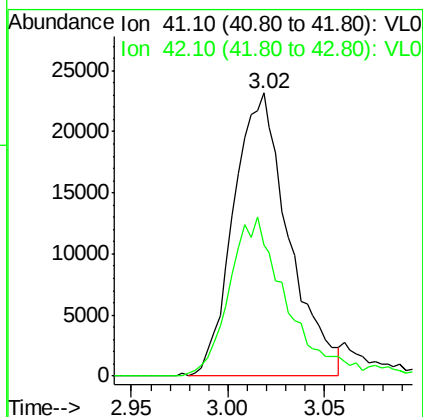
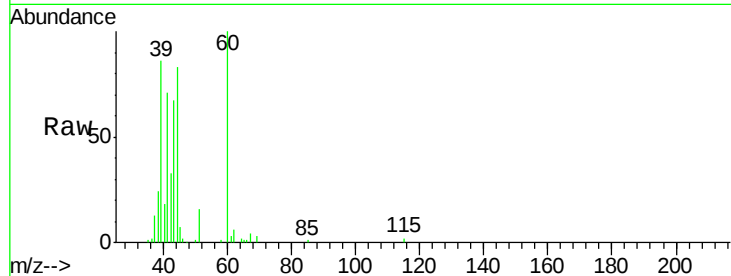
42 60.2 56.2 84.4

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#11

Trichlorofluoromethane

Concen: 0.247 ppbv

RT: 3.95 min Scan# 361

Delta R.T. 0.00 min

Lab File: VL035960.D

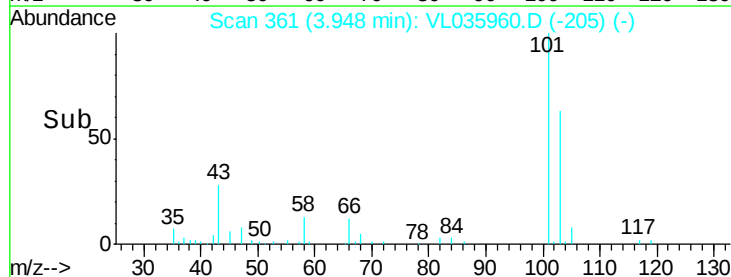
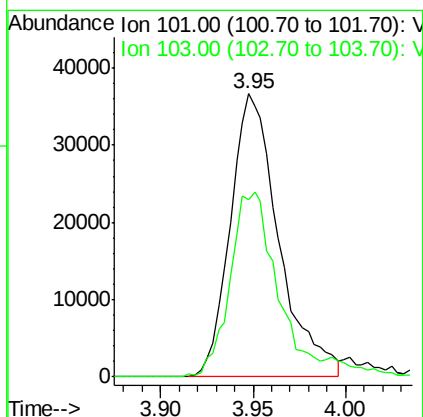
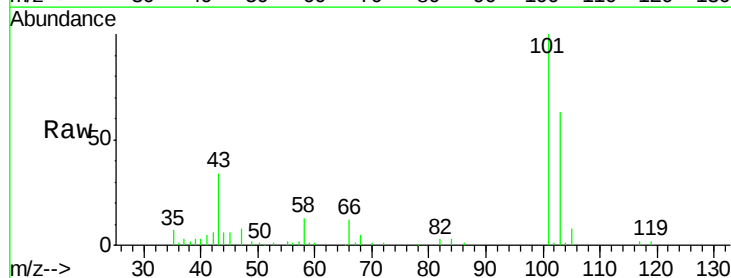
Acq: 17 Nov 2020 1:51

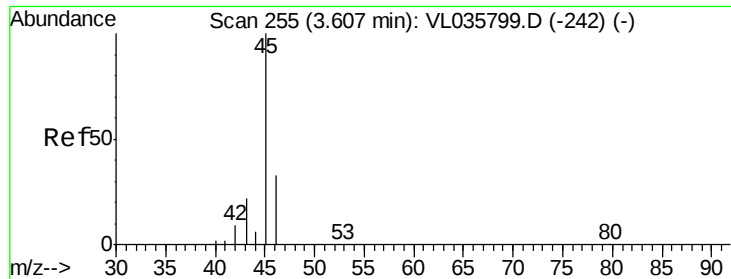
Tgt Ion: 101 Resp: 66549

Ion Ratio Lower Upper

101 100

103 61.6 53.0 79.4





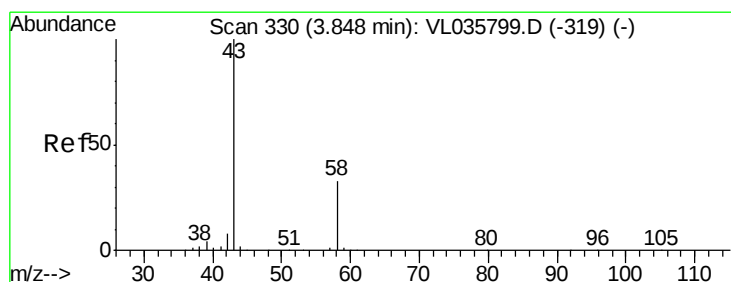
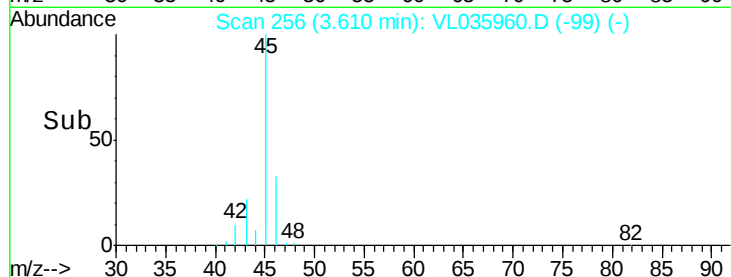
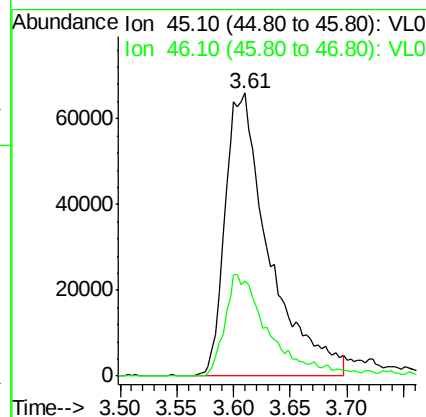
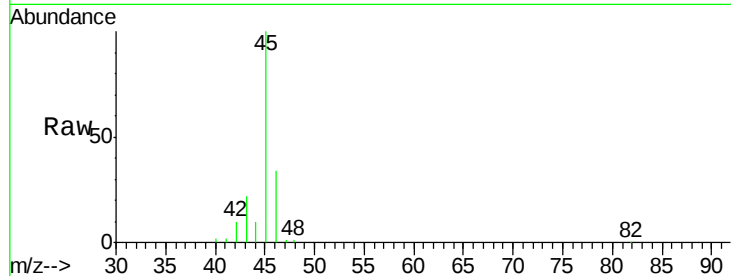
#13
Ethanol
Concen: 16.464 ppbv m
RT: 3.61 min Scan# 256
Delta R.T. 0.00 min
Lab File: VL035960.D
Acq: 17 Nov 2020 1:51

Instrument :
MSVOA_L
ClientSampleId :
SR-7DUP

Tot Ion	45	46	Ratio	Lower	Upper
178671	100	0.0		16.1	64.5#

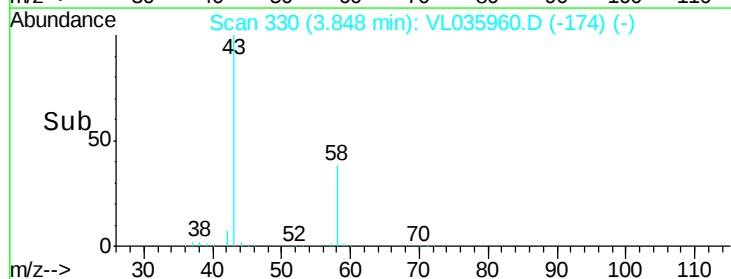
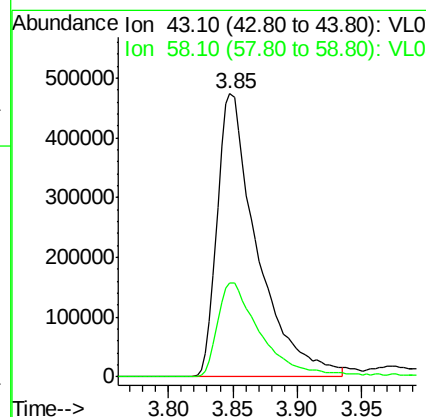
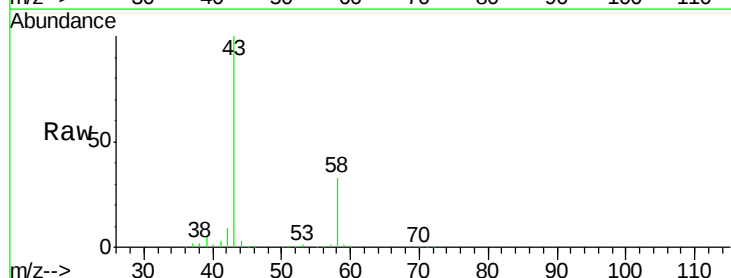
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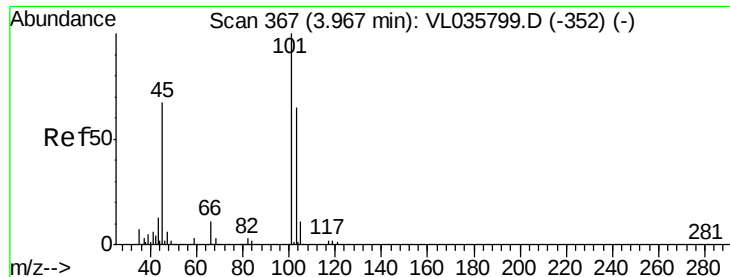
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#15
Acetone
Concen: 8.351 ppbv
RT: 3.85 min Scan# 330
Delta R.T. 0.00 min
Lab File: VL035960.D
Acq: 17 Nov 2020 1:51

Tgt Ion	43	58	Ratio	Lower	Upper
1018957	100	37.6		27.5	41.3





#19

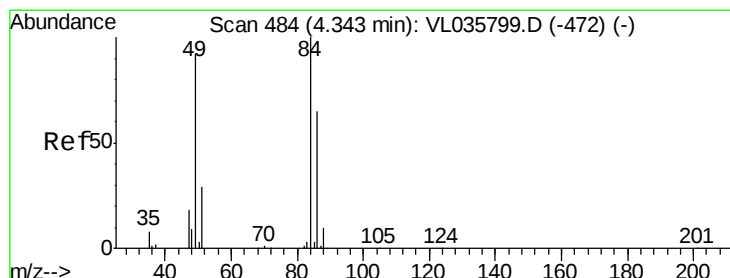
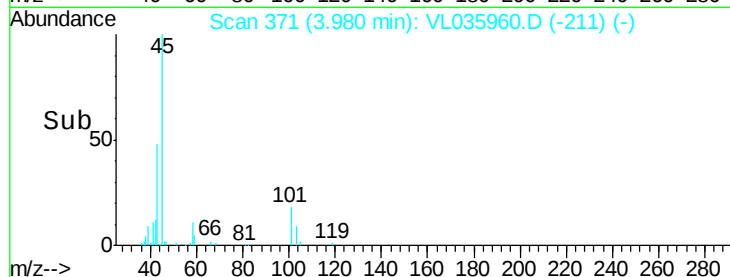
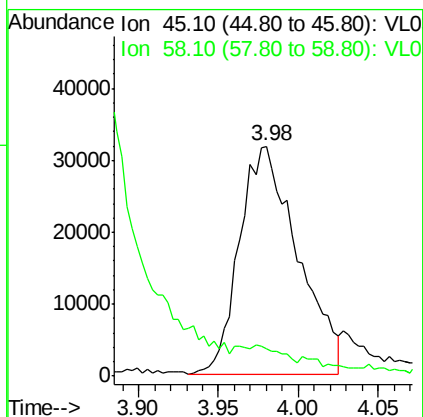
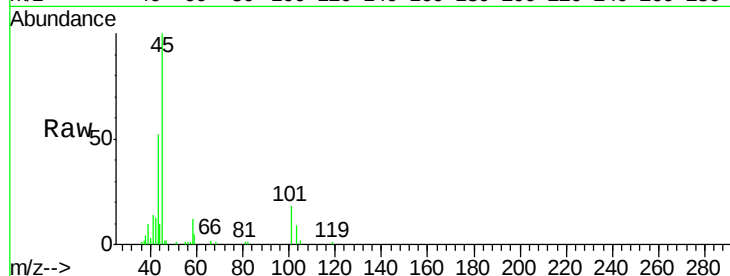
Isopropyl Alcohol
 Concen: 1.057 ppbv
 RT: 3.98 min Scan# 371
 Delta R.T. 0.01 min
 Lab File: VL035960.D
 Acq: 17 Nov 2020 1:51

Instrument :
 MSVOA_L
 ClientSampleId :
 SR-7DUP

Tot Ion: 45 Resp: 79257
 Ion Ratio Lower Upper
 45 100
 58 15.2 2.6 3.8#

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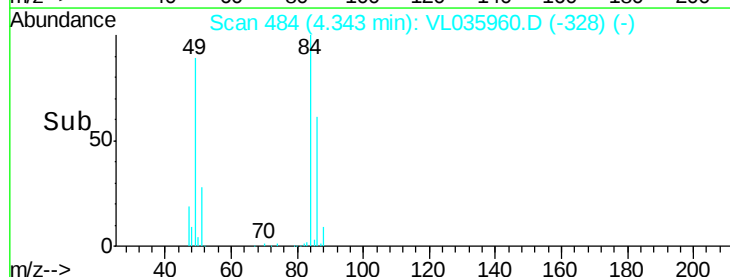
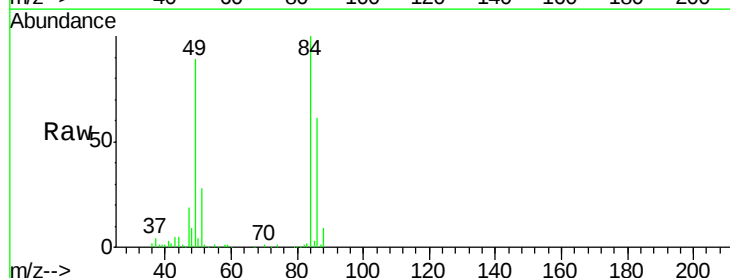
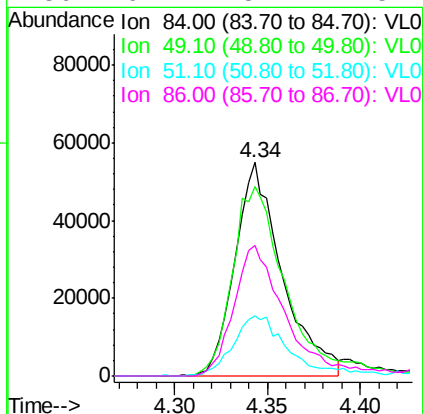
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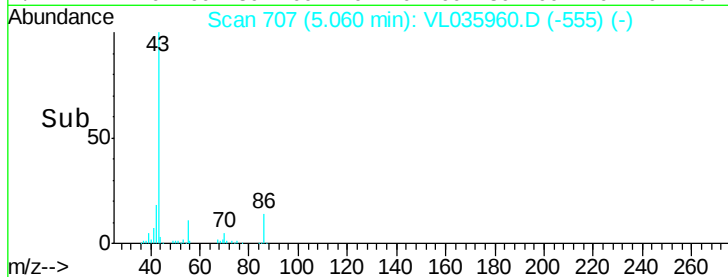
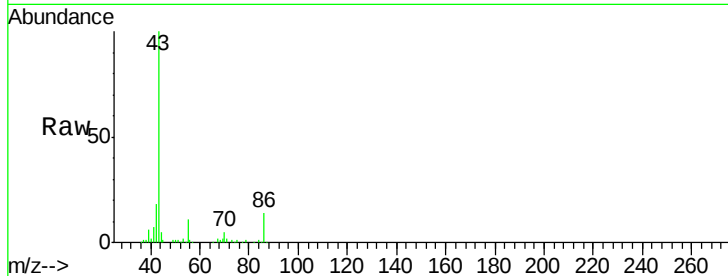
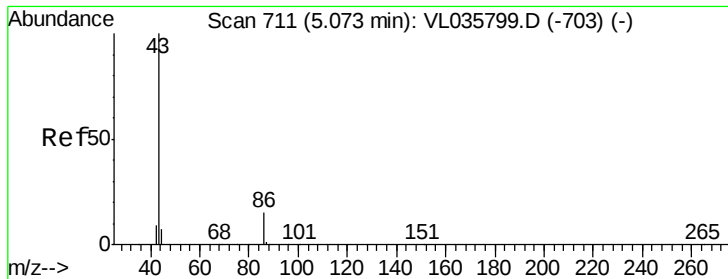


#20

Methylene Chloride
 Concen: 1.128 ppbv
 RT: 4.34 min Scan# 484
 Delta R.T. 0.00 min
 Lab File: VL035960.D
 Acq: 17 Nov 2020 1:51

Tgt Ion: 84 Resp: 96875
 Ion Ratio Lower Upper
 84 100
 49 88.2 73.8 110.8
 51 27.5 23.0 34.4
 86 61.1 52.1 78.1





#23

Vinyl Acetate

Concen: 0.875 ppbv

RT: 5.06 min Scan# 707

Delta R.T. -0.01 min

Lab File: VL035960.D

Acq: 17 Nov 2020 1:51

Tot Ion	43	Resp	149729
Ion Ratio	Lower	Upper	
43	100		
86	14.2	9.8	14.6
42	17.9	8.1	12.1#
44	2.3	4.2	6.4#

Instrument :

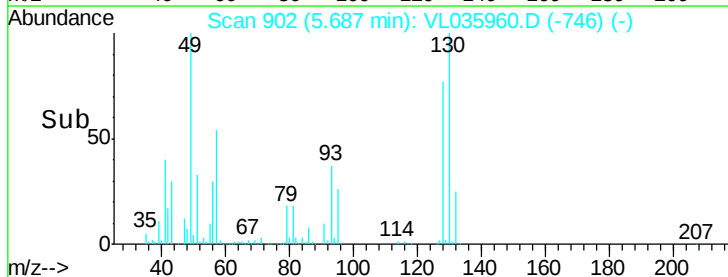
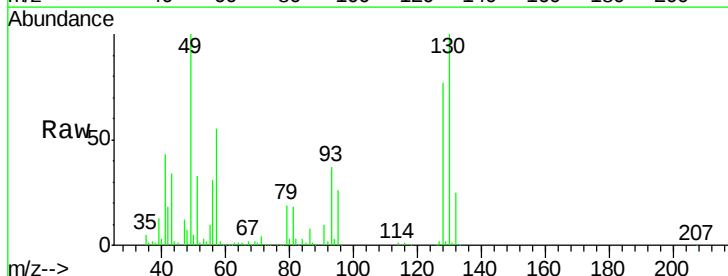
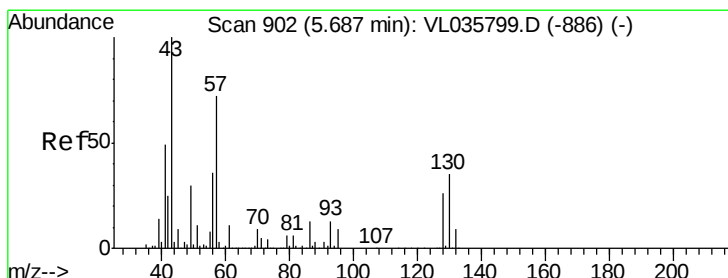
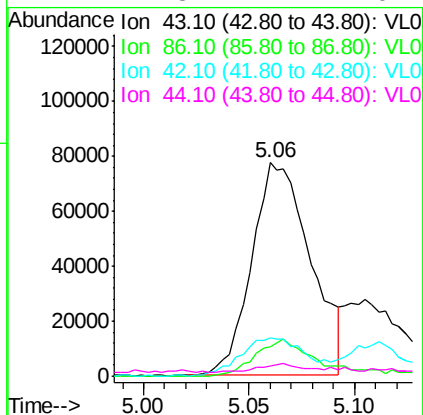
MSVOA_L

ClientSampleId :

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#26

Hexane

Concen: 1.567 ppbv

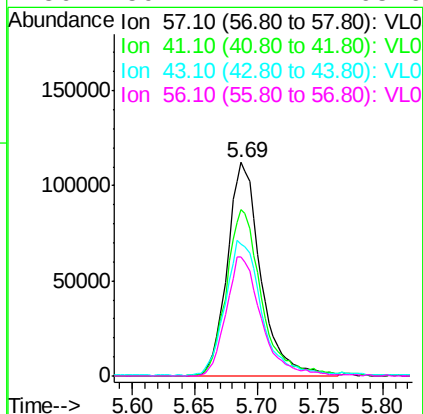
RT: 5.69 min Scan# 902

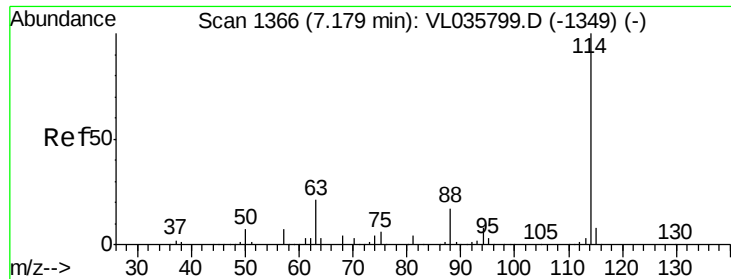
Delta R.T. 0.00 min

Lab File: VL035960.D

Acq: 17 Nov 2020 1:51

Tgt Ion	57	Resp	207675
Ion Ratio	Lower	Upper	
57	100		
41	82.8	58.9	88.3
43	70.1	150.2	225.2#
56	59.1	42.4	63.6





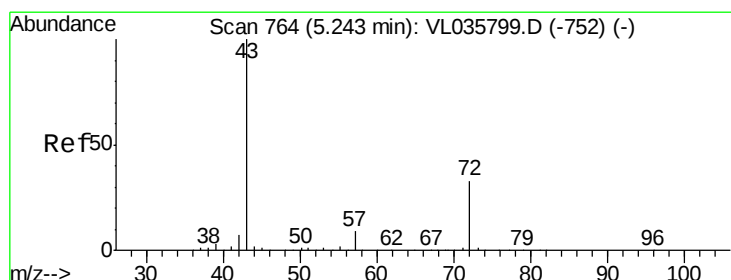
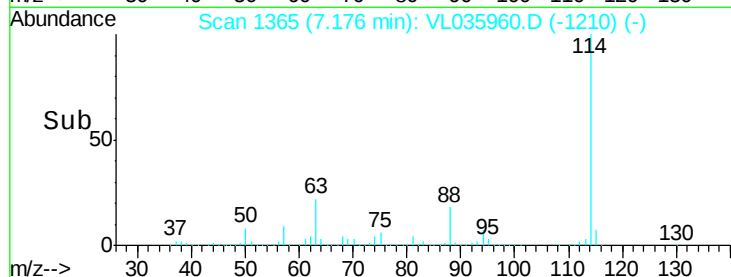
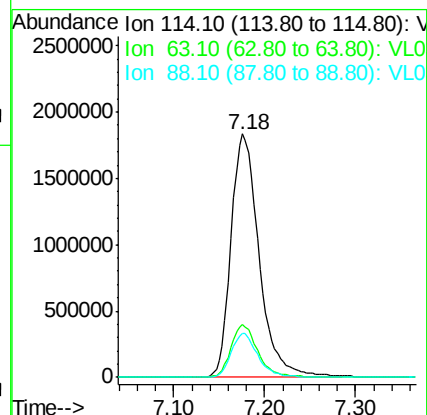
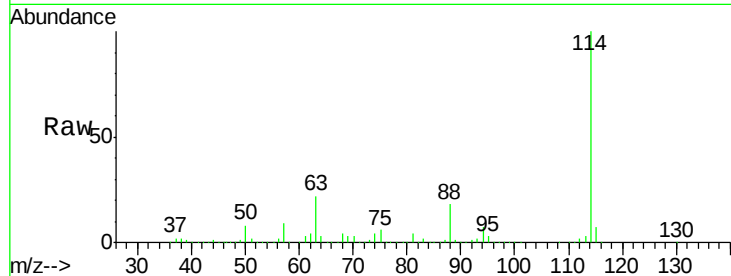
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1365
 Delta R.T. -0.00 min
 Lab File: VL035960.D
 Acq: 17 Nov 2020 1:51

Instrument :
 MSVOA_L
 ClientSampleId :
 SR-7DUP

Tot Ion	Ratio	Lower	Upper
114	100		
63	21.1	16.1	24.1
88	17.5	13.7	20.5

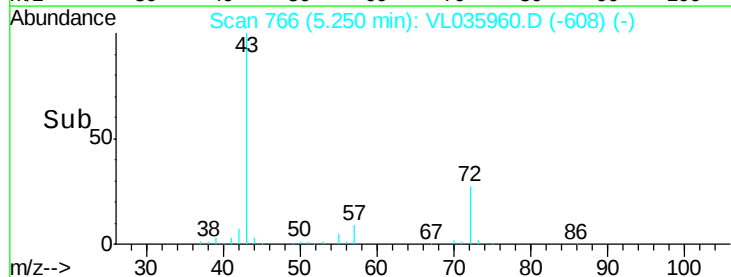
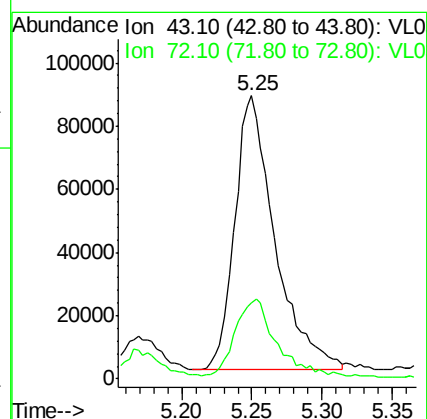
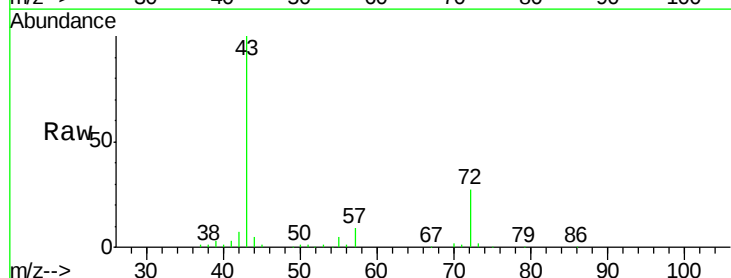
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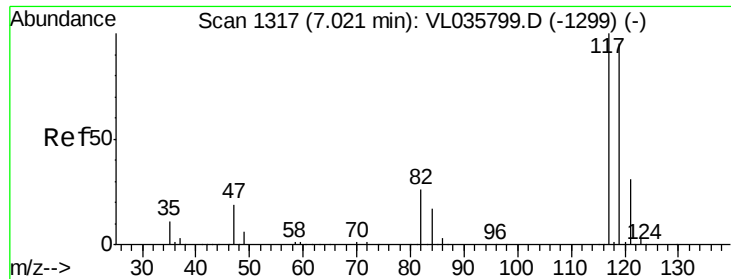
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#34
 2-Butanone
 Concen: 1.351 ppbv
 RT: 5.25 min Scan# 766
 Delta R.T. 0.01 min
 Lab File: VL035960.D
 Acq: 17 Nov 2020 1:51

Tgt Ion	Ratio	Lower	Upper
43	100		
72	32.8	26.5	39.7





#35

Carbon Tetrachloride

Concen: 0.069 ppbv

RT: 7.01 min Scan# 1315

Delta R.T. -0.01 min

Lab File: VL035960.D

Acq: 17 Nov 2020 1:51

Instrument :

MSVOA_L

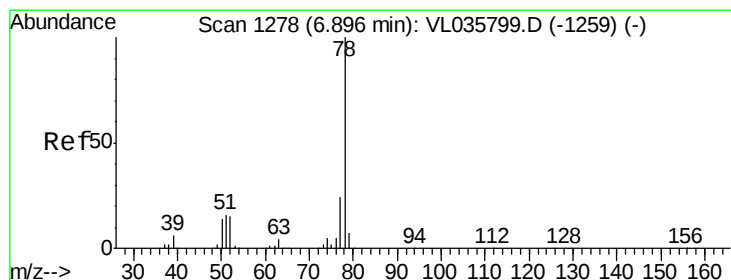
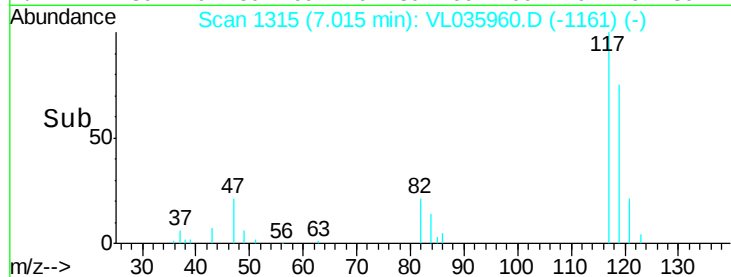
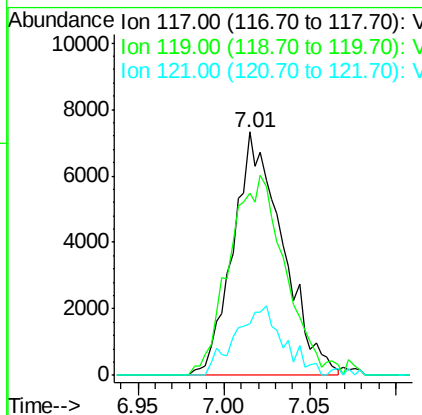
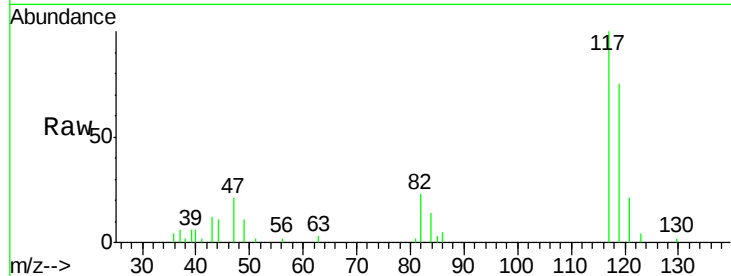
ClientSampleId :

SR-7DUP

Tot Ion: 117 Resp: 14605
 Ion Ratio Lower Upper
 117 100
 119 75.0 75.6 113.4#
 121 21.3 25.1 37.7#

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#36

Benzene

Concen: 0.213 ppbv m

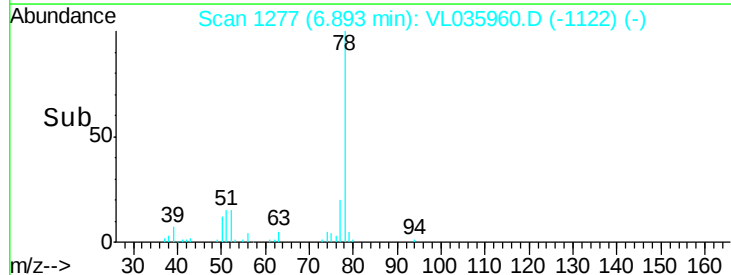
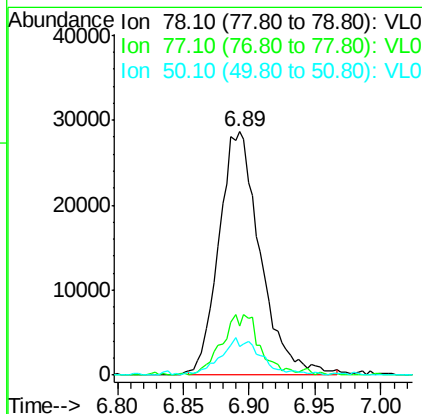
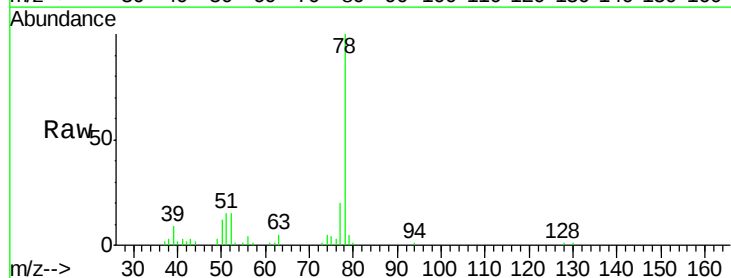
RT: 6.89 min Scan# 1277

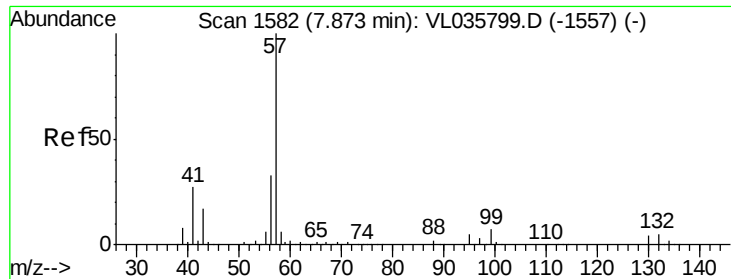
Delta R.T. -0.00 min

Lab File: VL035960.D

Acq: 17 Nov 2020 1:51

Tgt Ion: 78 Resp: 62595
 Ion Ratio Lower Upper
 78 100
 77 19.9 19.3 28.9
 50 11.9 11.4 17.2





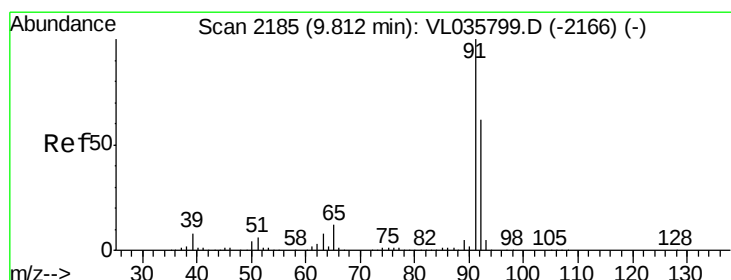
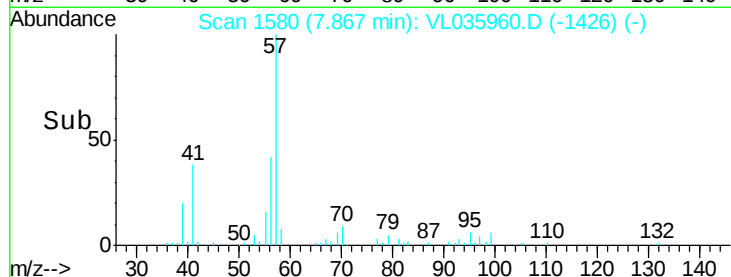
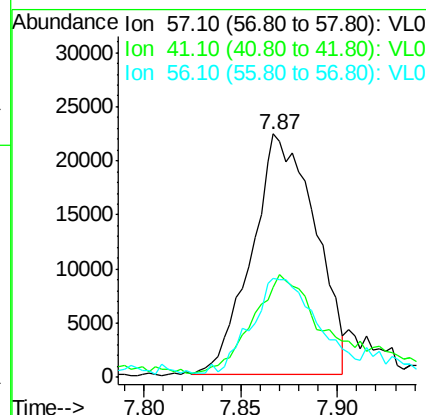
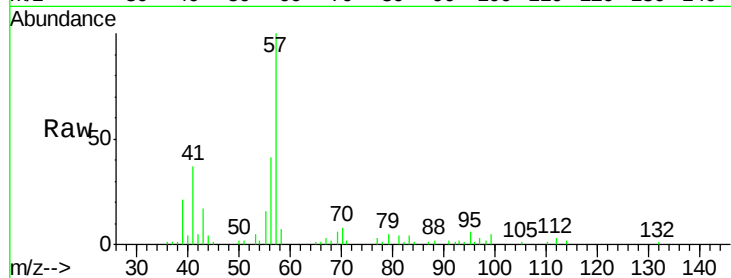
#44
 2,2,4-Trimethylpentane
 Concen: 0.130 ppbv
 RT: 7.87 min Scan# 1580
 Delta R.T. -0.01 min
 Lab File: VL035960.D
 Acq: 17 Nov 2020 1:51

Instrument :
 MSVOA_L
 ClientSampleId :
 SR-7DUP

Tot Ion	Ratio	Lower	Upper
57	100		
41	51.1	21.0	31.4#
56	52.4	25.4	38.0#

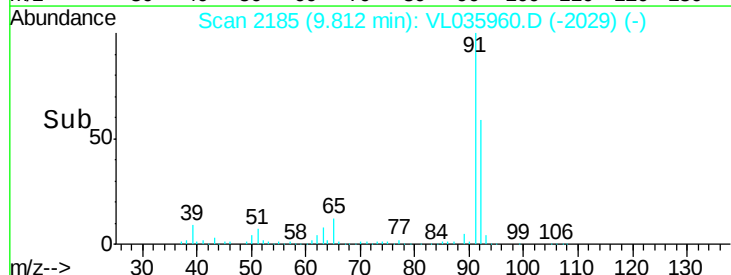
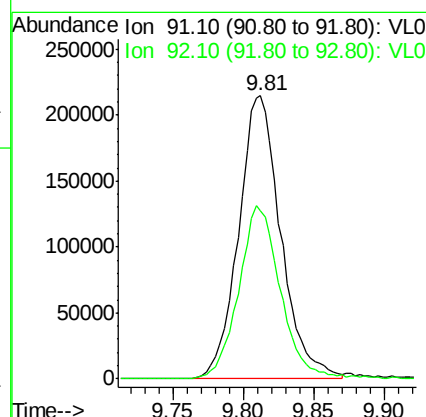
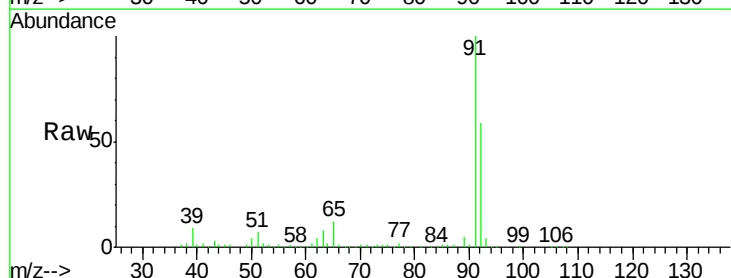
Manual Integrations
 APPROVED

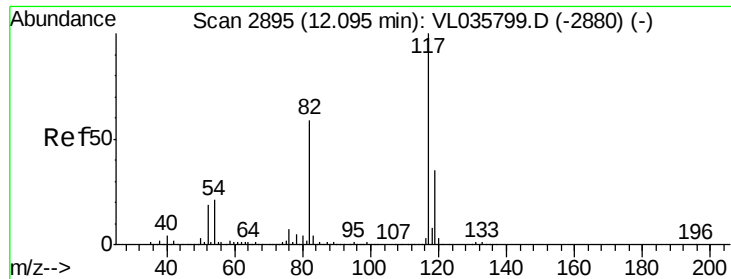
MMDadoda
 11/18/2020 9:08:27 AM



#53
 Toluene
 Concen: 1.263 ppbv
 RT: 9.81 min Scan# 2185
 Delta R.T. 0.00 min
 Lab File: VL035960.D
 Acq: 17 Nov 2020 1:51

Tgt Ion	Ratio	Lower	Upper
91	100		
92	61.3	49.8	74.6





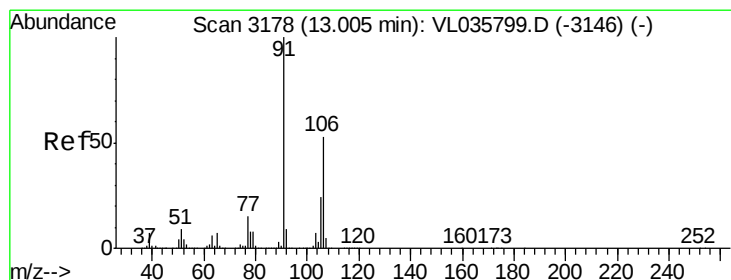
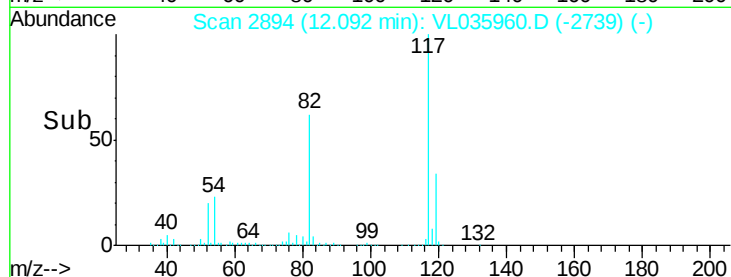
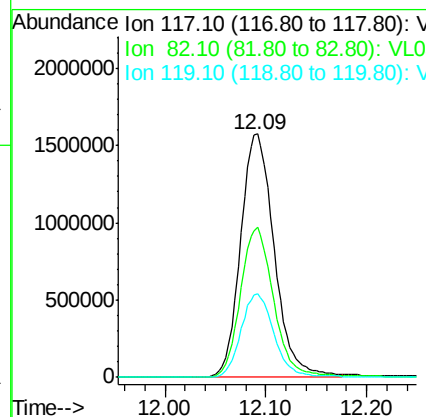
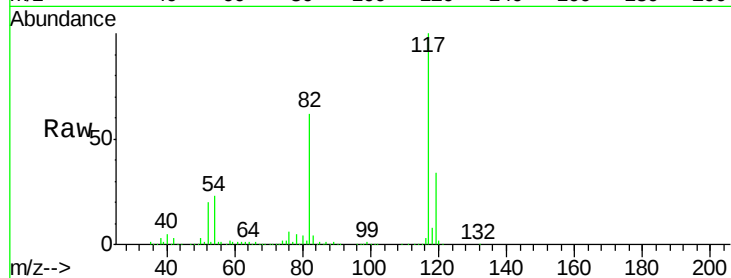
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.09 min Scan# 2894
Delta R.T. -0.00 min
Lab File: VL035960.D
Acq: 17 Nov 2020 1:51

Instrument :
MSVOA_L
ClientSampleId :
SR-7DUP

Tot Ion:117 Resp: 3659829
Ion Ratio Lower Upper
117 100
82 61.7 50.6 76.0
119 34.2 52.6 78.8#

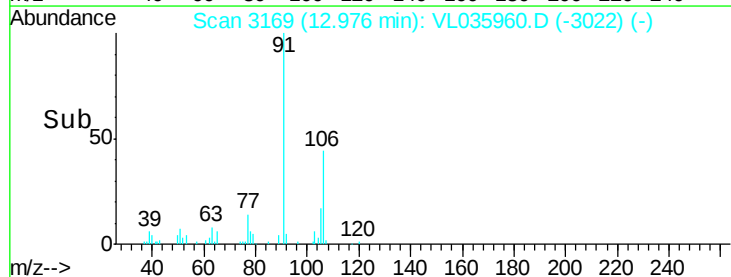
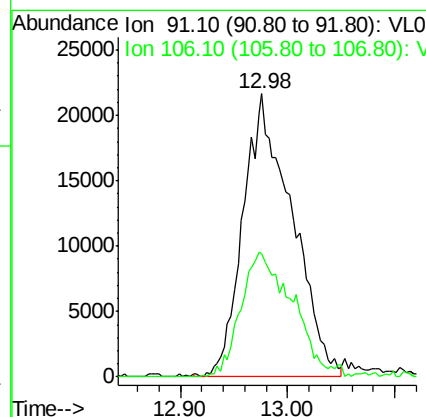
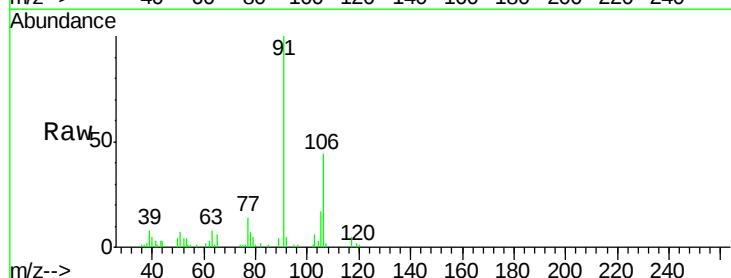
Manual Integrations
APPROVED

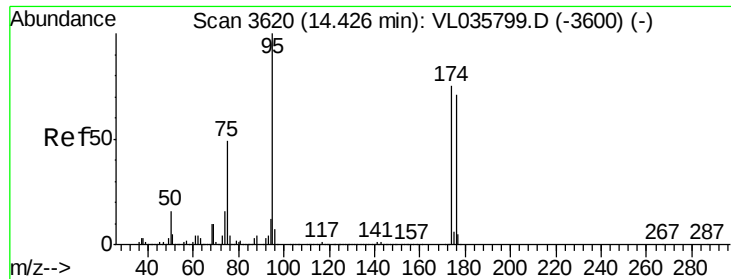
MMDadoda
11/18/2020 9:08:27 AM



#59
m/p-Xylene
Concen: 0.182 ppbv m
RT: 12.98 min Scan# 3169
Delta R.T. -0.03 min
Lab File: VL035960.D
Acq: 17 Nov 2020 1:51

Tgt Ion: 91 Resp: 68466
Ion Ratio Lower Upper
91 100
106 47.3 39.5 59.3





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.720 ppbv
 RT: 14.42 min Scan# 3619
 Delta R.T. -0.00 min
 Lab File: VL035960.D
 Acq: 17 Nov 2020 1:51

Instrument :
 MSVOA_L
 ClientSampleId :
 SR-7DUP

Tot Ion	Ion	Ratio	Lower	Upper
95	100			
174	70.7	59.8	89.6	
175	5.0	4.3	6.5	

Manual Integrations
 APPROVED

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 11/18/2020 9:08:27 AM

