

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL021820\
 Data File : VL034631.D
 Acq On : 18 Feb 2020 19:40
 Operator : SY/AP
 Sample : L1532-07
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IR-PRSS

Manual Integrations
 APPROVED

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 2/21/2020 3:26:01 PM

Quant Time: Feb 20 16:55:06 2020

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL013020AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Jan 30 2020

QLast Update : Thu Jan 30 17:16:44 2020

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	920416	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	1905041	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	1946990	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.45	95	1718064	10.44	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.40%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.01	85	45672m	0.225	ppbv
3) Chlorodifluoromethane	2.95	51	38021m	0.342	ppbv
4) Chloromethane	3.10	50	23827	0.350	ppbv
9) Propene	2.98	41	50410	1.164	ppbv #
10) Heptane	8.13	43	14631m	0.134	ppbv
11) Trichlorofluoromethane	3.92	101	46235	0.251	ppbv
13) Ethanol	3.57	45	157181	13.551	ppbv
15) Acetone	3.82	43	2636894	19.493	ppbv
19) Isopropyl Alcohol	3.95	45	112353	1.423	ppbv #
20) Methylene Chloride	4.32	84	338393	6.570	ppbv
26) Hexane	5.68	57	124974m	1.362	ppbv
31) cis-1,2-Dichloroethene	5.54	61	9842m	0.103	ppbv
34) 2-Butanone	5.23	43	134825	0.975	ppbv
35) Carbon Tetrachloride	7.02	117	12097m	0.066	ppbv
36) Benzene	6.89	78	52656	0.311	ppbv
38) Trichloroethene	7.84	130	5002m	0.070	ppbv
52) Tetrachloroethene	11.24	164	493927	7.258	ppbv
53) Toluene	9.82	91	115813	0.622	ppbv
58) Ethyl Benzene	12.73	91	33845m	0.130	ppbv
59) m/p-Xylene	12.99	91	52501m	0.228	ppbv
60) o-Xylene	13.72	91	27760m	0.120	ppbv

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

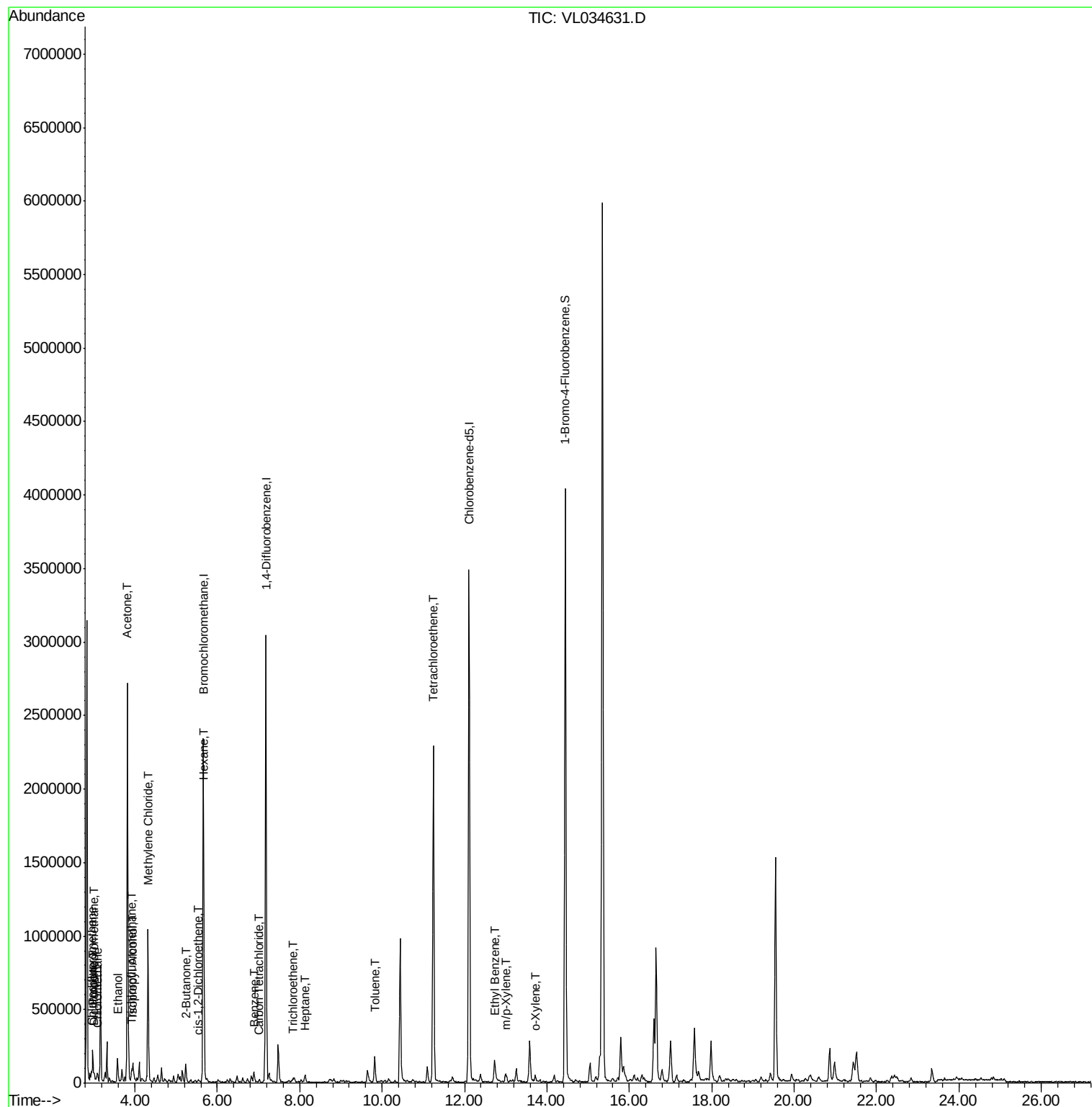
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL021820\
Data File : VL034631.D
Acq On : 18 Feb 2020 19:40
Operator : SY/AP
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Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

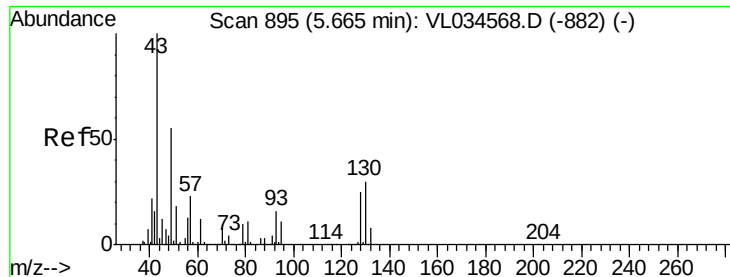
Instrument :
MSVOA_L
ClientSampleId :
IR-PRSS

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Quant Time: Feb 20 16:55:06 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL013020AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Jan
QLast Update : Thu Jan 30 17:16:44 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 892

Delta R.T. -0.01 min

Lab File: VL034631.D

Acq: 18 Feb 2020 19:40

Instrument :

MSVOA_L

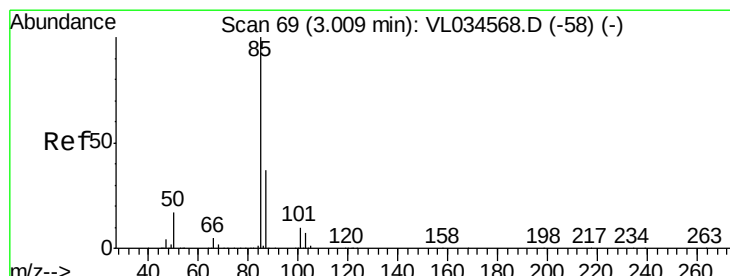
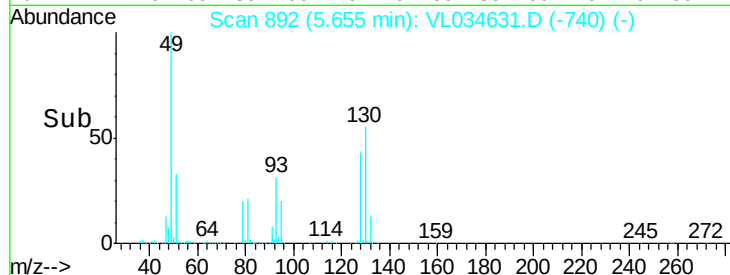
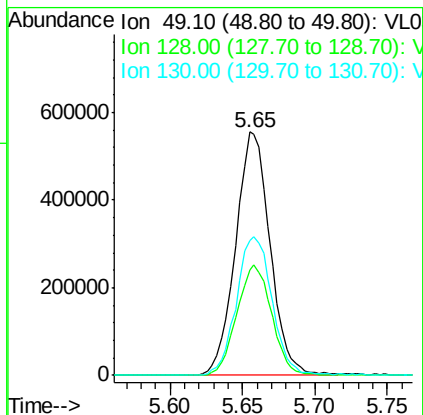
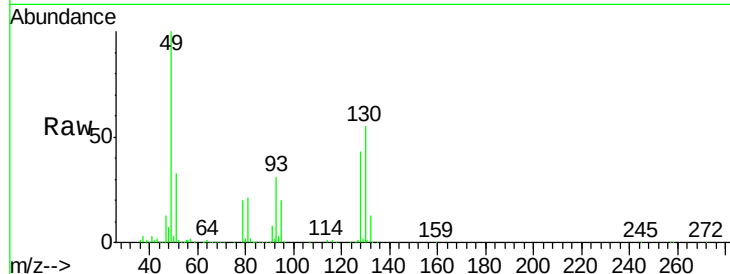
ClientSampled :

IR-PRSS

Tot Ion:	49	Resp:	920416
Ion	Ratio	Lower	Upper
49	100		
128	45.9	22.7	68.1
130	59.3	28.6	85.8

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#2

Dichlorodifluoromethane

Concen: 0.225 ppbv m

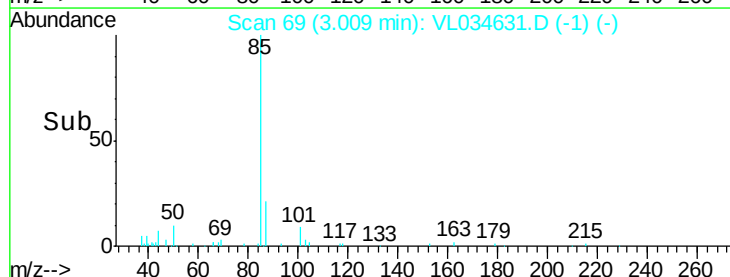
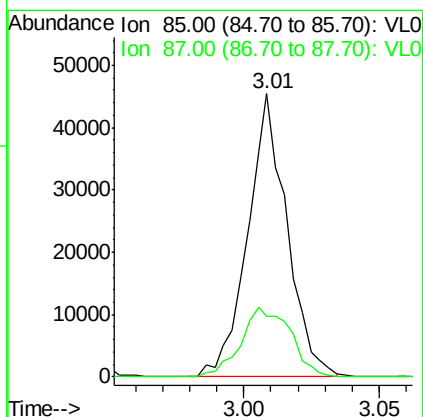
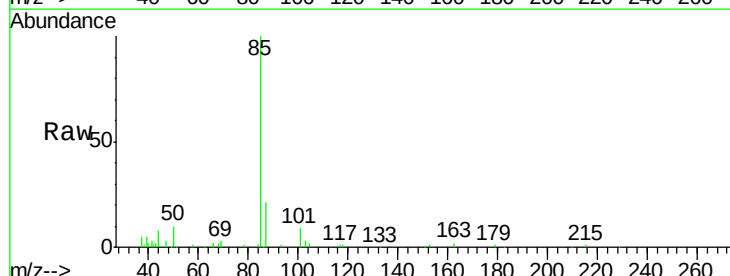
RT: 3.01 min Scan# 69

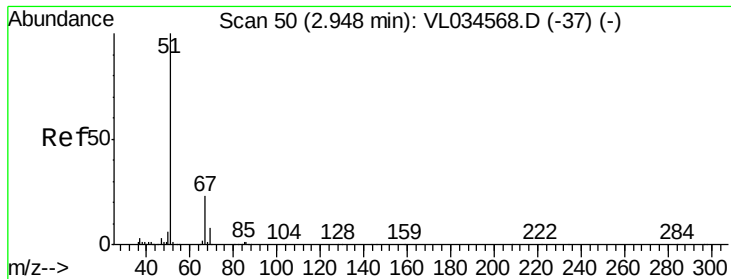
Delta R.T. -0.00 min

Lab File: VL034631.D

Acq: 18 Feb 2020 19:40

Tgt Ion:	85	Resp:	45672
Ion	Ratio	Lower	Upper
85	100		
87	21.3	29.5	44.3#





#3

Chlorodifluoromethane

Concen: 0.342 ppbv

RT: 2.95 min Scan# 51

Delta R.T. 0.00 min

Lab File: VL034631.D

Acq: 18 Feb 2020 19:40

Instrument :

MSVOA_L

ClientSampleId :

IR-PRSS

Tot Ion: 51 Resp: 38021

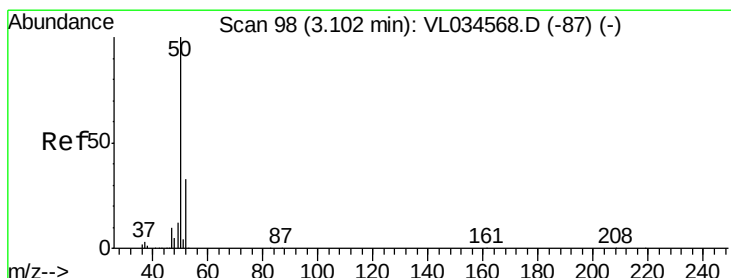
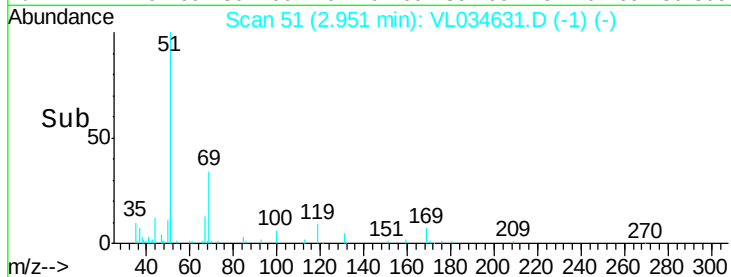
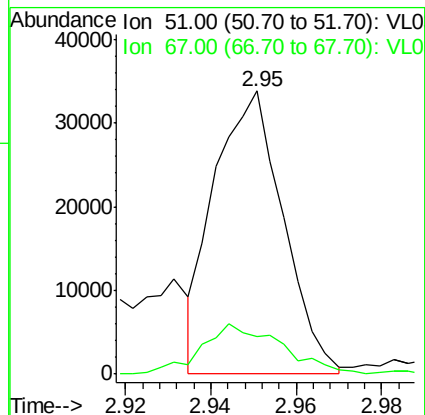
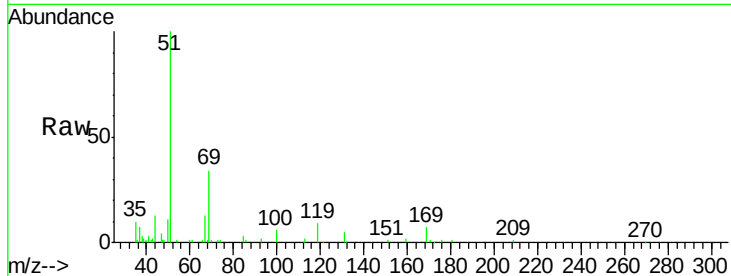
Ion Ratio Lower Upper

51 100

67 21.0 17.8 26.8

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#4

Chloromethane

Concen: 0.350 ppbv

RT: 3.10 min Scan# 97

Delta R.T. -0.00 min

Lab File: VL034631.D

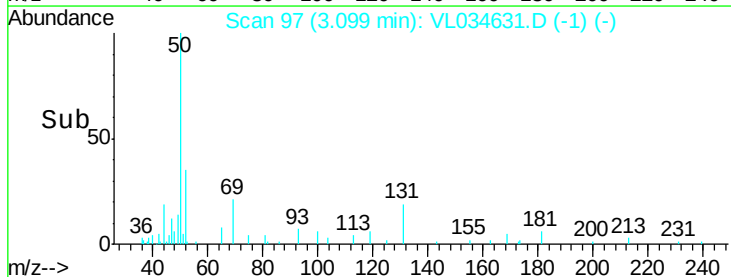
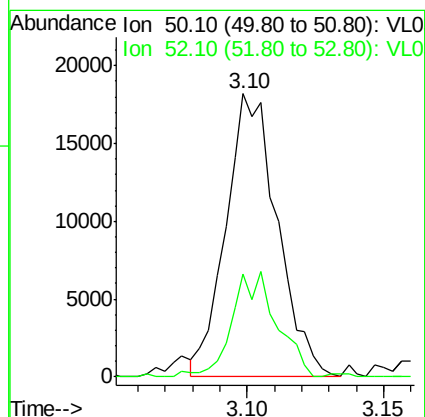
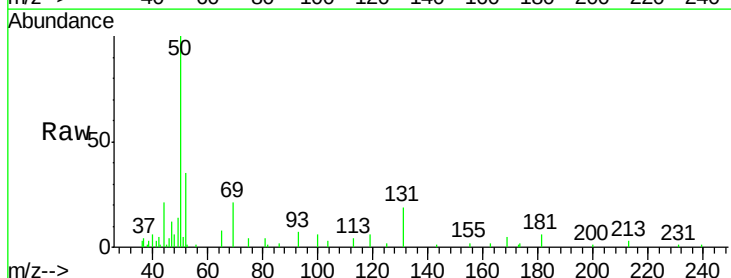
Acq: 18 Feb 2020 19:40

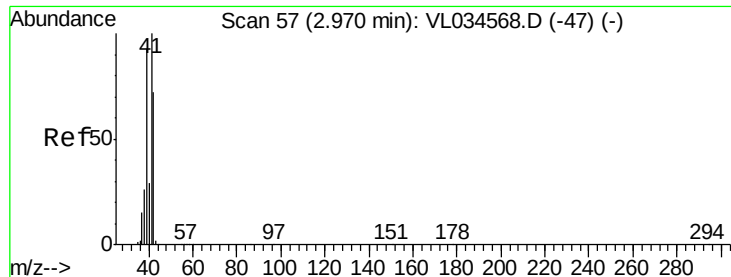
Tgt Ion: 50 Resp: 23827

Ion Ratio Lower Upper

50 100

52 35.2 26.6 39.8





#9

Propene

Concen: 1.164 ppbv

RT: 2.98 min Scan# 59

Delta R.T. 0.01 min

Lab File: VL034631.D

Acq: 18 Feb 2020 19:40

Instrument :

MSVOA_L

ClientSampleId :

IR-PRSS

Tot Ion: 41 Resp: 50410

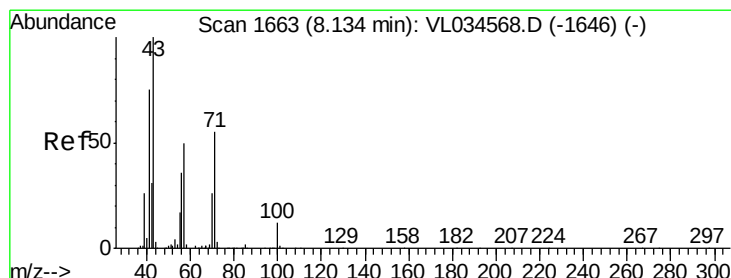
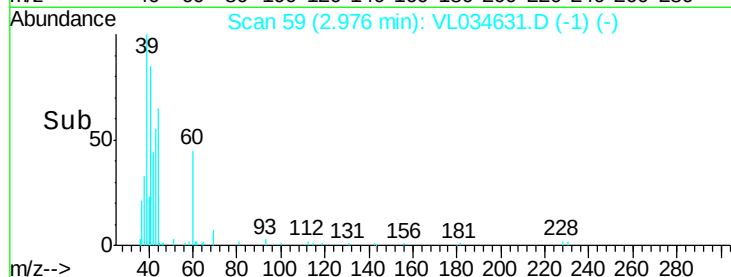
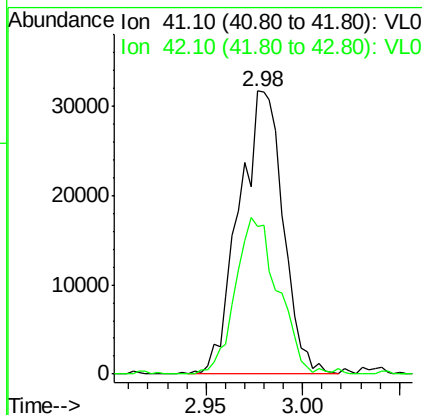
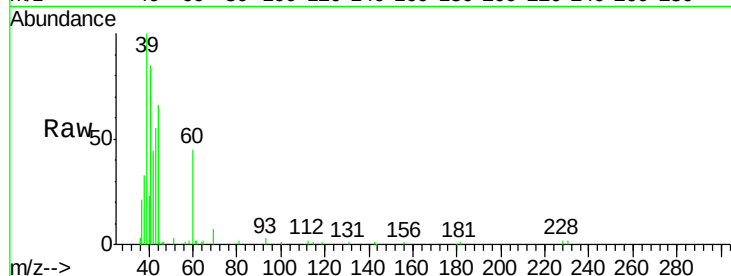
Ion Ratio Lower Upper

41 100

42 53.5 57.0 85.4#

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#10

Heptane

Concen: 0.134 ppbv m

RT: 8.13 min Scan# 1662

Delta R.T. -0.00 min

Lab File: VL034631.D

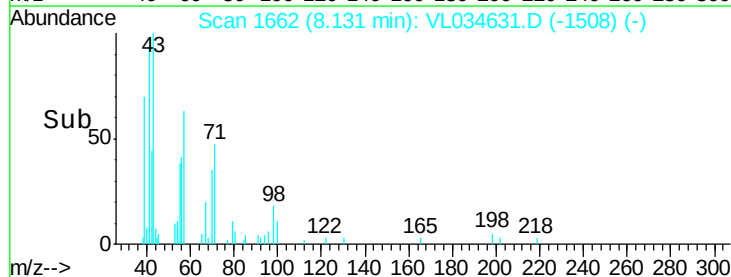
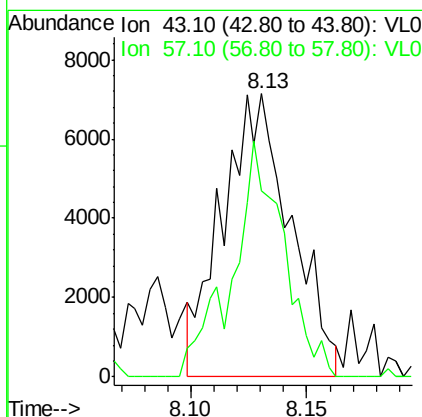
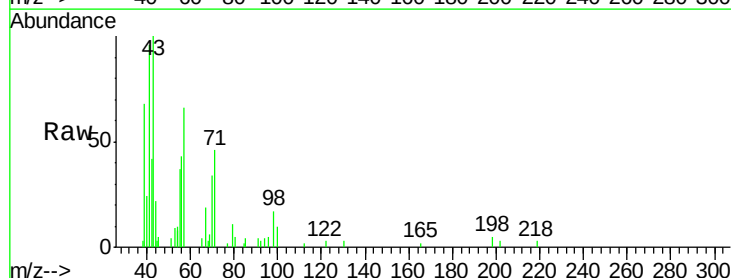
Acq: 18 Feb 2020 19:40

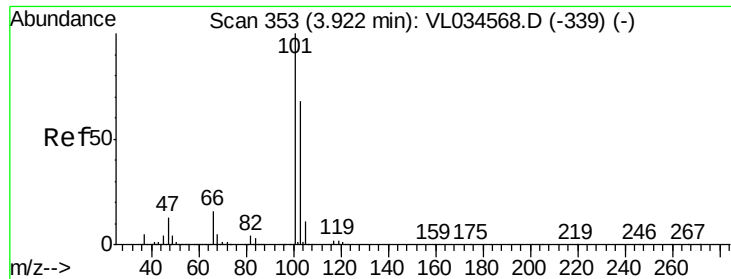
Tgt Ion: 43 Resp: 14631

Ion Ratio Lower Upper

43 100

57 0.0 41.2 61.8#





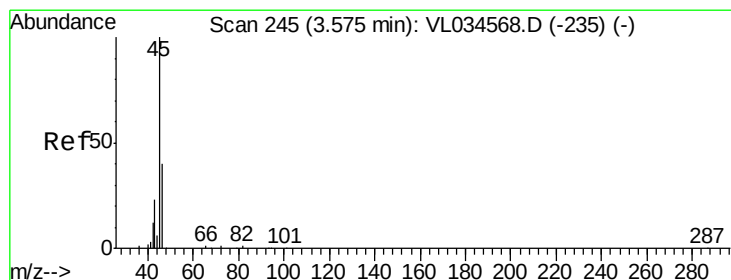
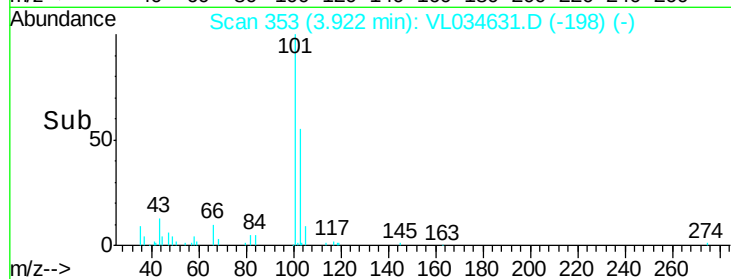
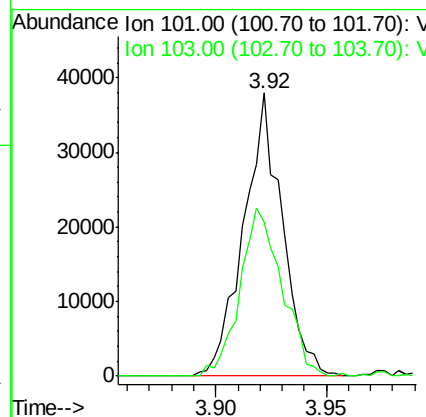
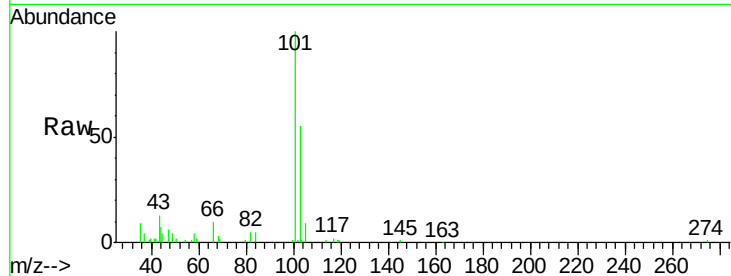
#11
 Trichlorofluoromethane
 Concen: 0.251 ppbv
 RT: 3.92 min Scan# 353
 Delta R.T. -0.00 min
 Lab File: VL034631.D
 Acq: 18 Feb 2020 19:40

Instrument :
 MSVOA_L
 ClientSampleId :
 IR-PRSS

Tot Ion	Ratio	Lower	Upper
101	100		
103	55.8	54.4	81.6

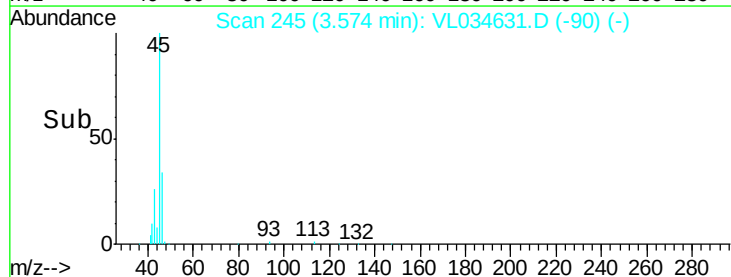
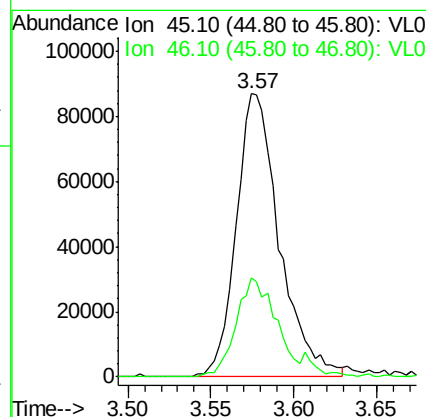
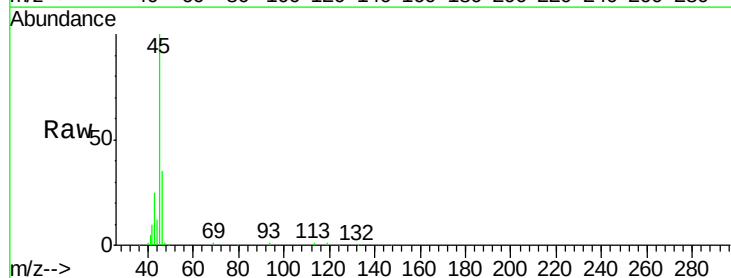
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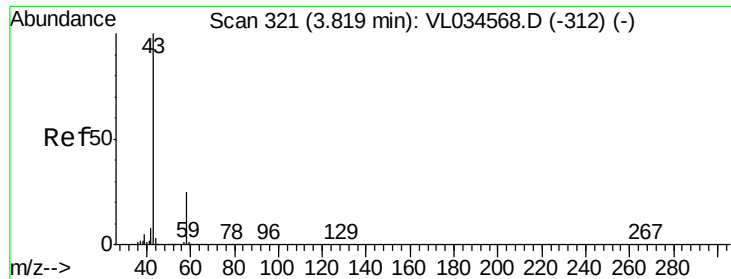
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#13
 Ethanol
 Concen: 13.551 ppbv
 RT: 3.57 min Scan# 245
 Delta R.T. -0.00 min
 Lab File: VL034631.D
 Acq: 18 Feb 2020 19:40

Tgt Ion	Ratio	Lower	Upper
45	100		
46	35.4	14.8	59.2





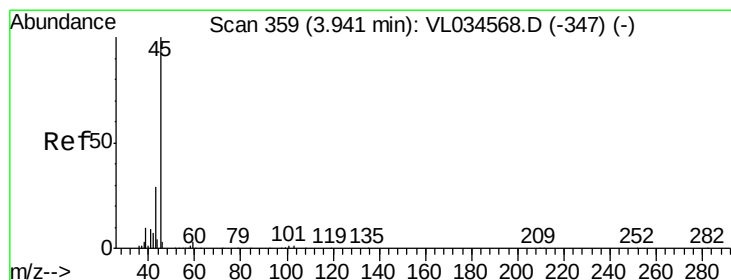
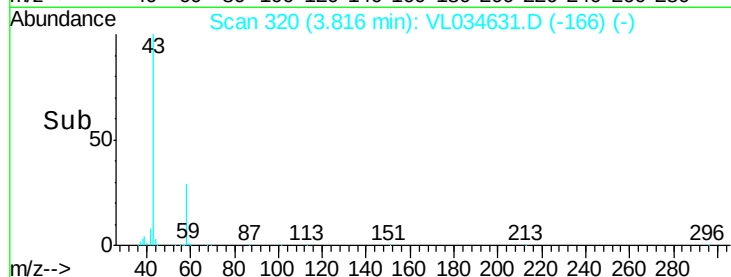
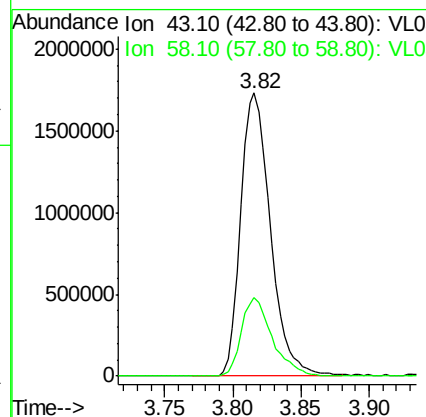
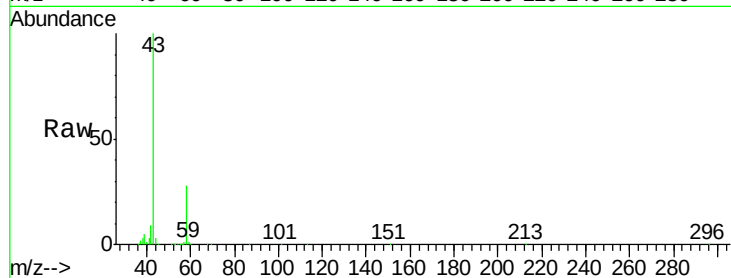
#15
Acetone
Concen: 19.493 ppbv
RT: 3.82 min Scan# 320
Delta R.T. -0.00 min
Lab File: VL034631.D
Acq: 18 Feb 2020 19:40

Instrument :
MSVOA_L
ClientSampleId :
IR-PRSS

Tot Ion: 43 Resp: 2636894
Ion Ratio Lower Upper
43 100
58 28.8 20.3 30.5

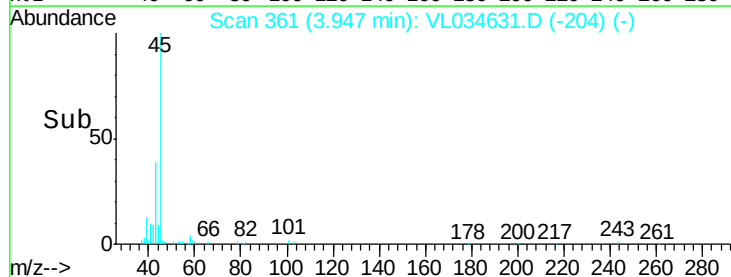
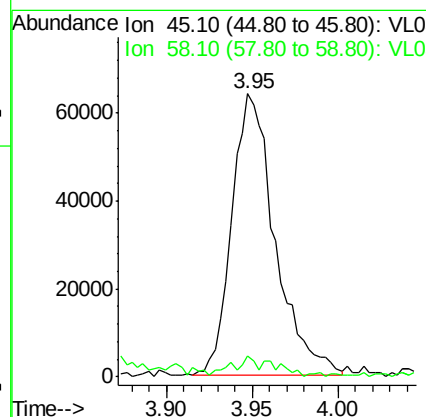
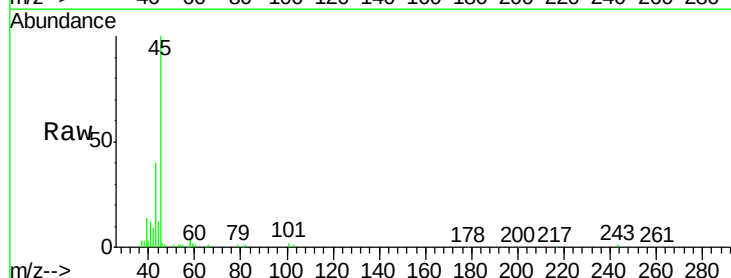
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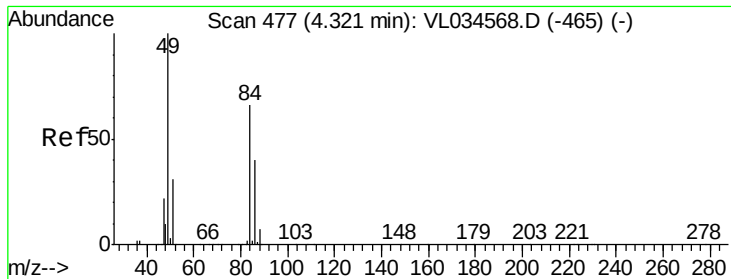
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#19
Isopropyl Alcohol
Concen: 1.423 ppbv
RT: 3.95 min Scan# 361
Delta R.T. 0.01 min
Lab File: VL034631.D
Acq: 18 Feb 2020 19:40

Tgt Ion: 45 Resp: 112353
Ion Ratio Lower Upper
45 100
58 0.0 1.7 2.5#





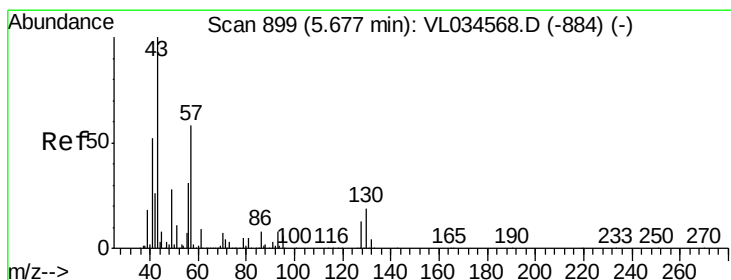
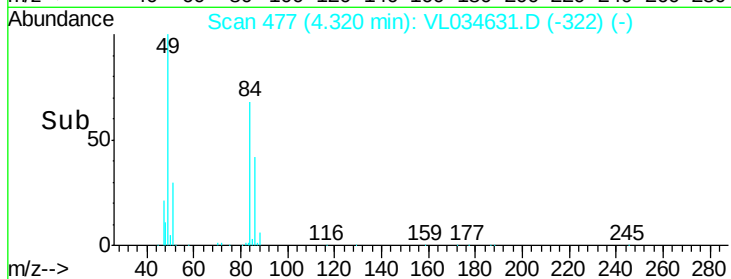
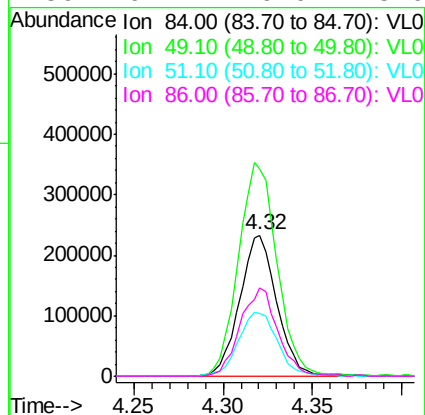
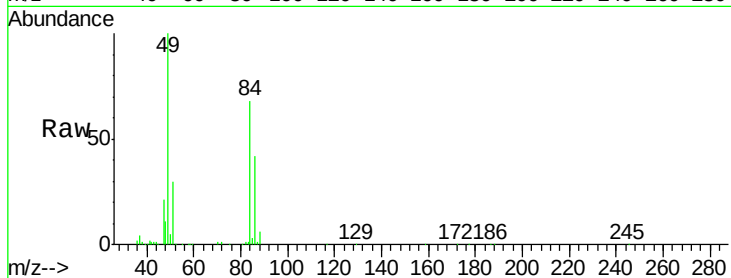
#20
Methvlene Chloride
Concen: 6.570 ppbv
RT: 4.32 min Scan# 477
Delta R.T. -0.00 min
Lab File: VL034631.D
Acq: 18 Feb 2020 19:40

Instrument :
MSVOA_L
ClientSampled :
IR-PRSS

Tot Ion:	84	Resp:	338393
Ion	Ratio	Lower	Upper
84	100		
49	147.2	122.4	183.6
51	44.5	38.6	57.8
86	62.2	49.0	73.6

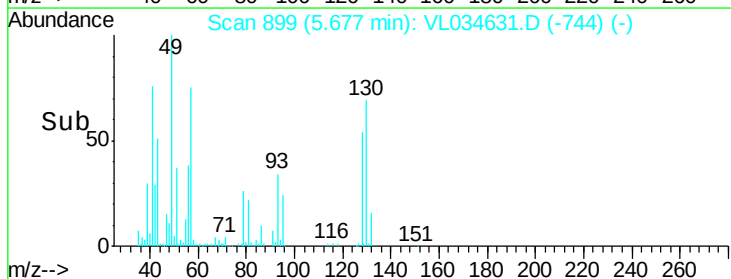
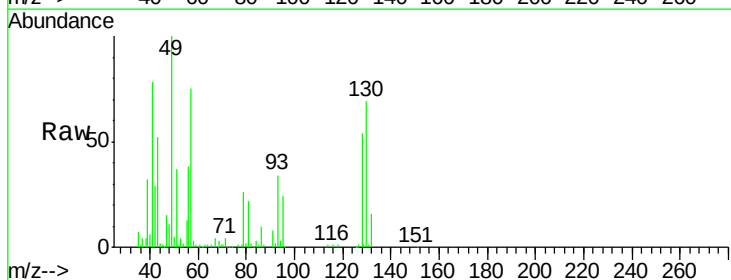
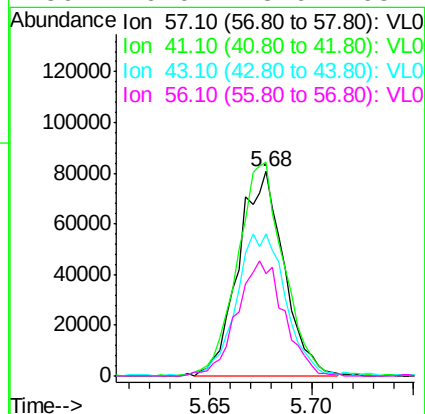
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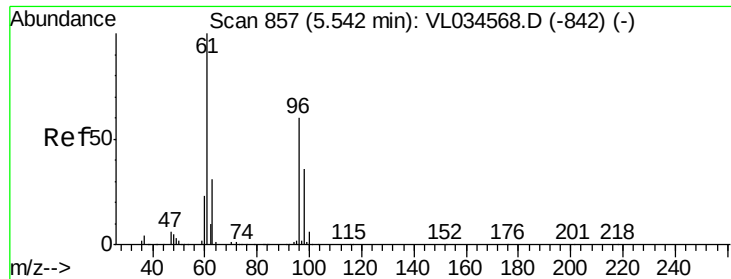
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#26
Hexane
Concen: 1.362 ppbv m
RT: 5.68 min Scan# 899
Delta R.T. -0.00 min
Lab File: VL034631.D
Acq: 18 Feb 2020 19:40

Tgt Ion:	57	Resp:	124974
Ion	Ratio	Lower	Upper
57	100		
41	0.0	76.2	114.2#
43	0.0	189.9	284.9#
56	0.0	43.6	65.4#





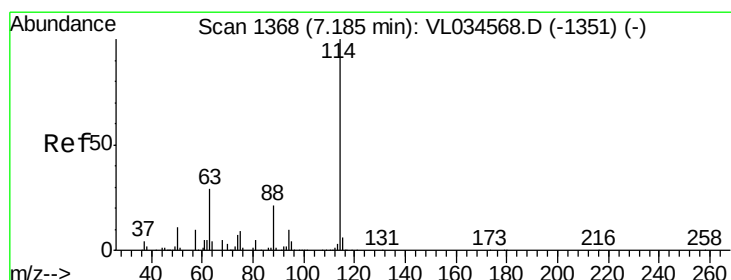
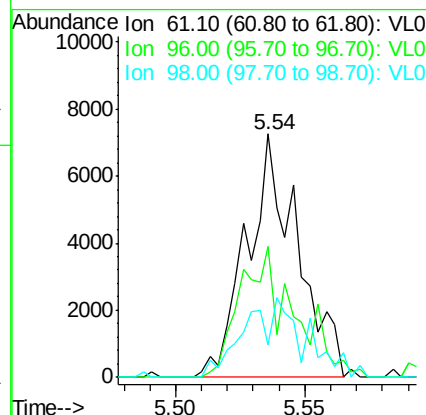
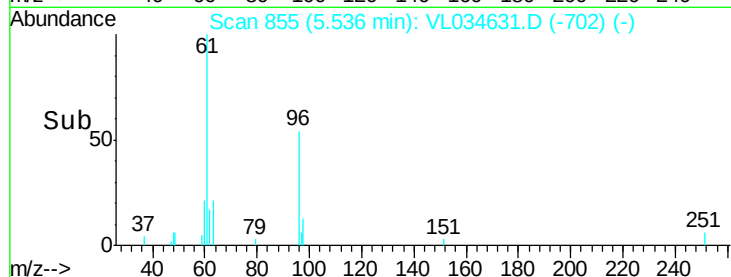
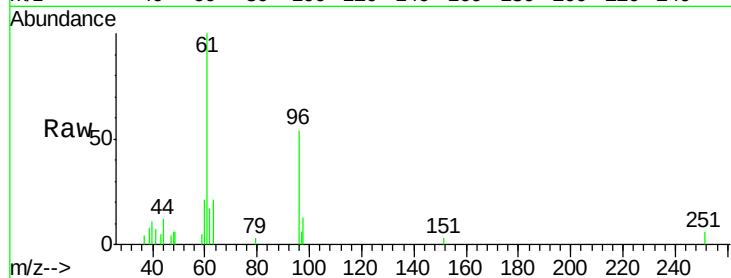
#31
 cis-1,2-Dichloroethene
 Concen: 0.103 ppbv m
 RT: 5.54 min Scan# 855
 Delta R.T. -0.01 min
 Lab File: VL034631.D
 Acq: 18 Feb 2020 19:40

Instrument :
 MSVOA_L
 ClientSampleId :
 IR-PRSS

Tot Ion	Ratio	Lower	Upper
61	100		
96	53.9	48.0	72.0
98	13.1	28.6	43.0

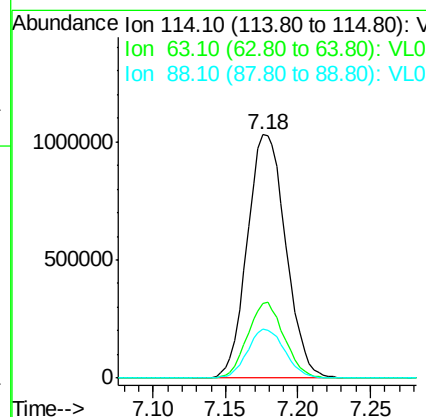
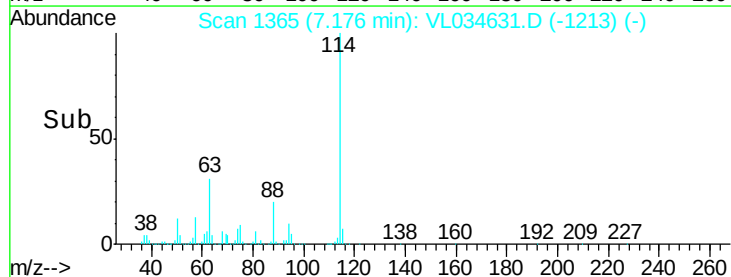
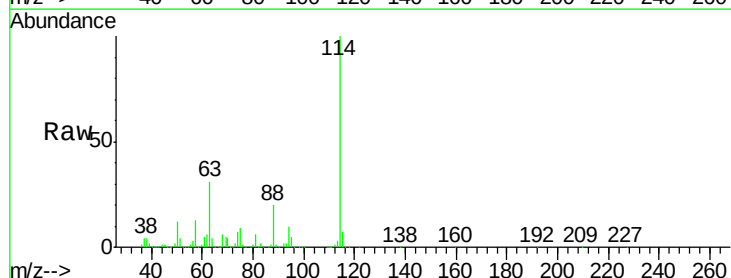
Manual Integrations
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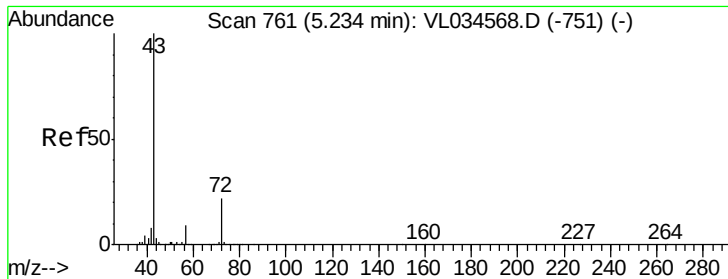
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#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1365
 Delta R.T. -0.01 min
 Lab File: VL034631.D
 Acq: 18 Feb 2020 19:40

Tgt Ion	Ratio	Lower	Upper
114	100		
63	29.8	24.1	36.1
88	19.6	15.9	23.9





#34

2-Butanone

Concen: 0.975 ppbv

RT: 5.23 min Scan# 760

Delta R.T. -0.00 min

Lab File: VL034631.D

Acq: 18 Feb 2020 19:40

Instrument :

MSVOA_L

ClientSampleId :

IR-PRSS

Tot Ion: 43 Resp: 134825

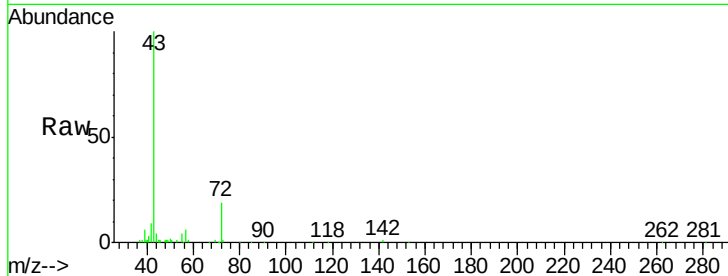
Ion Ratio Lower Upper

43 100

72 22.0 17.2 25.8

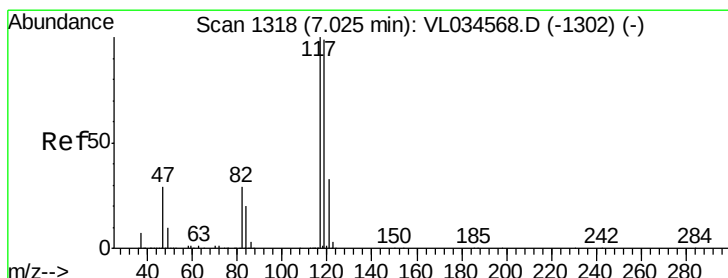
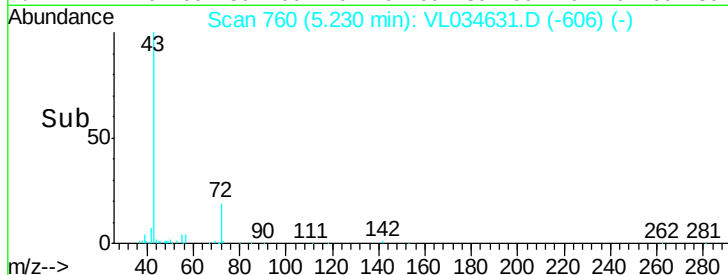
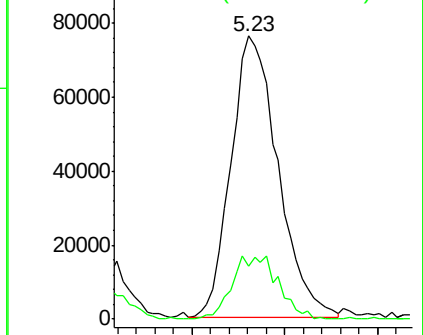
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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0



#35

Carbon Tetrachloride

Concen: 0.066 ppbv m

RT: 7.02 min Scan# 1316

Delta R.T. -0.01 min

Lab File: VL034631.D

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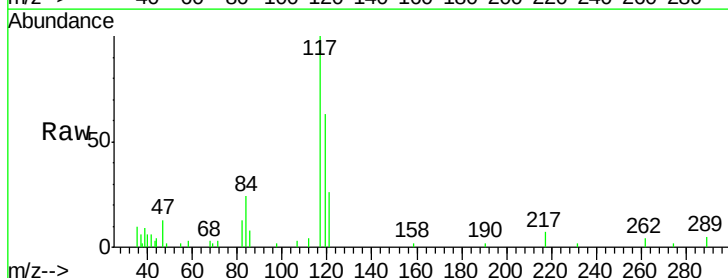
Tgt Ion: 117 Resp: 12097

Ion Ratio Lower Upper

117 100

119 63.5 79.5 119.3#

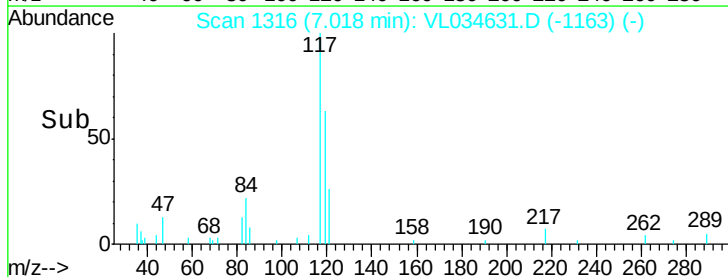
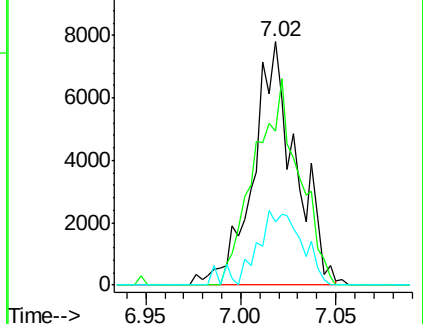
121 25.9 26.2 39.2#

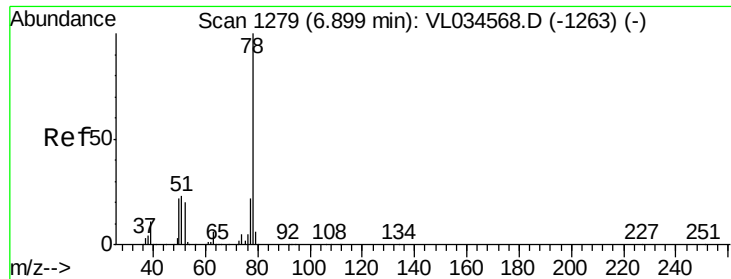


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V





#36

Benzene

Concen: 0.311 ppbv

RT: 6.89 min Scan# 1276

Delta R.T. -0.01 min

Lab File: VL034631.D

Acq: 18 Feb 2020 19:40

Instrument :

MSVOA_L

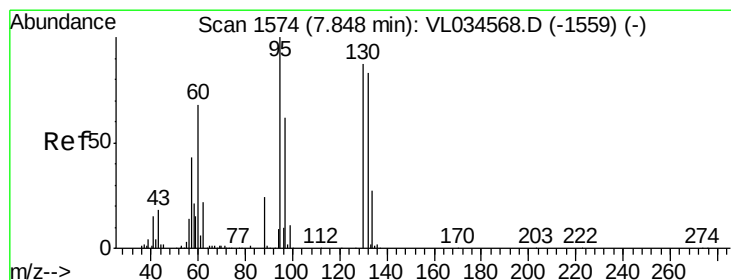
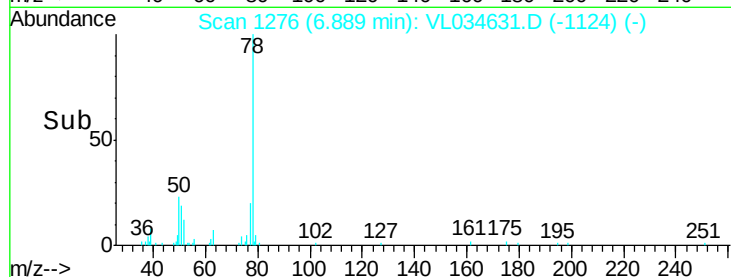
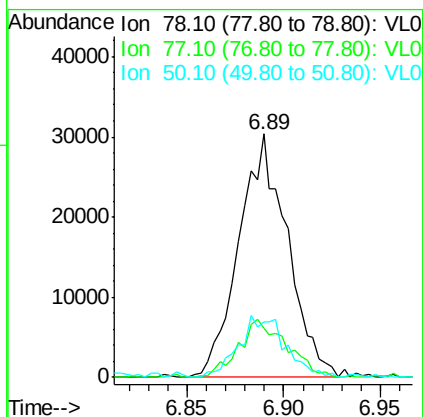
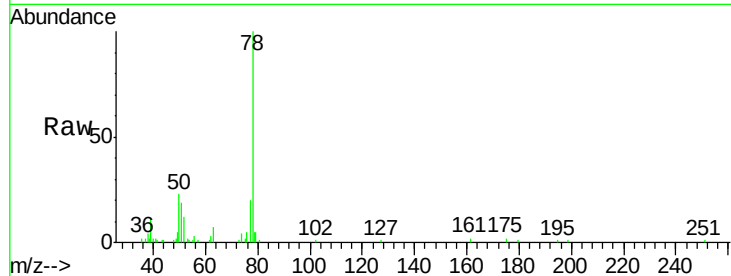
ClientSampleId :

IR-PRSS

Tot Ion:	78	Resp:	52656
Ion	Ratio	Lower	Upper
78	100		
77	19.9	17.3	25.9
50	22.8	17.4	26.2

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#38

Trichloroethene

Concen: 0.070 ppbv m

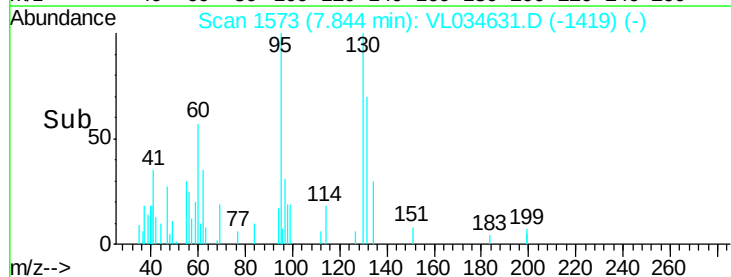
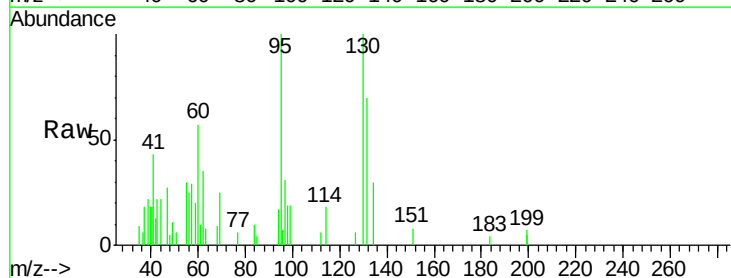
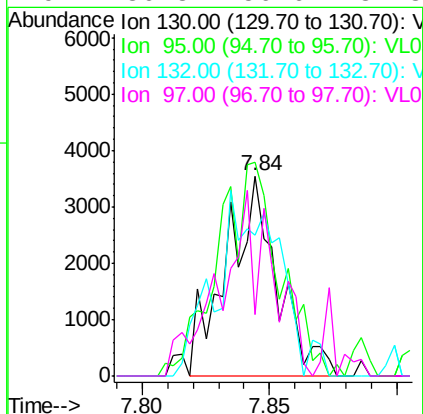
RT: 7.84 min Scan# 1573

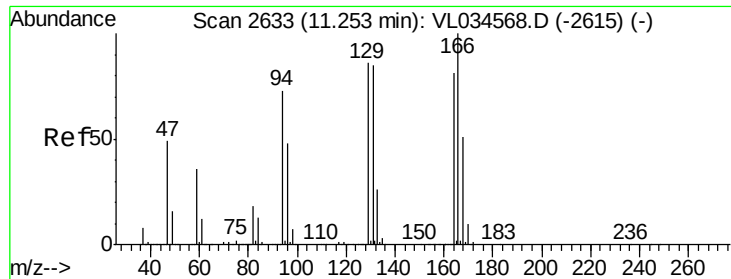
Delta R.T. -0.00 min

Lab File: VL034631.D

Acq: 18 Feb 2020 19:40

Tgt Ion:	130	Resp:	5002
Ion	Ratio	Lower	Upper
130	100		
95	100.2	91.6	137.4
132	70.3	76.1	114.1#
97	30.8	56.6	84.8#





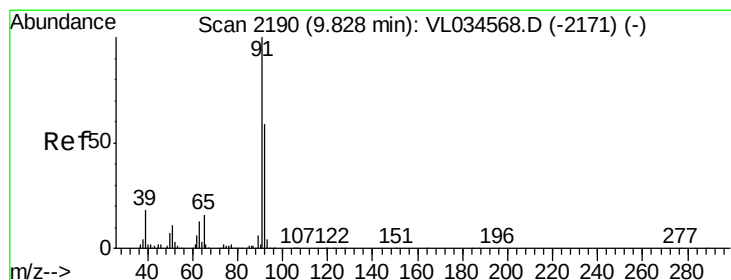
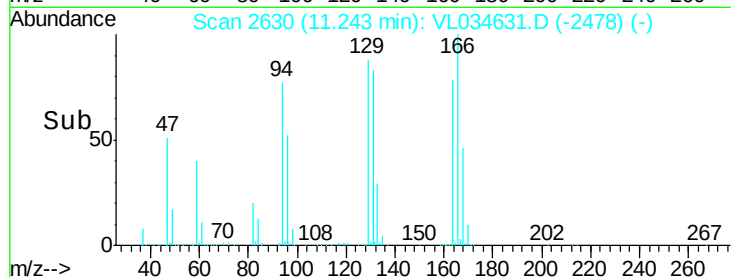
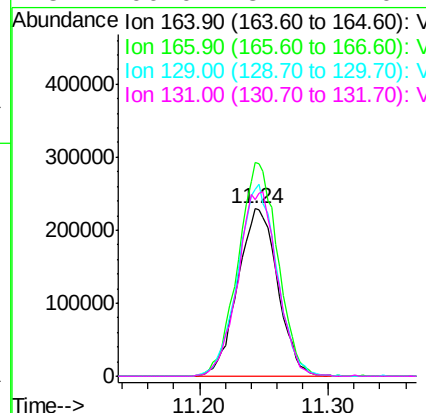
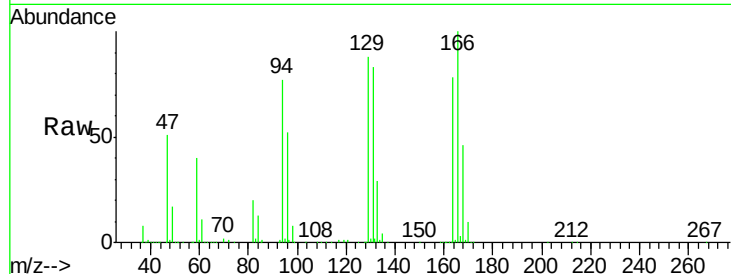
#52
Tetrachloroethene
Concen: 7.258 ppbv
RT: 11.24 min Scan# 2630
Delta R.T. -0.01 min
Lab File: VL034631.D
Acq: 18 Feb 2020 19:40

Instrument :
MSVOA_L
ClientSampled :
IR-PRSS

Tot Ion	Ratio	Lower	Upper
164	100		
166	127.6	99.0	148.4
129	111.8	85.3	127.9
131	106.0	84.2	126.2

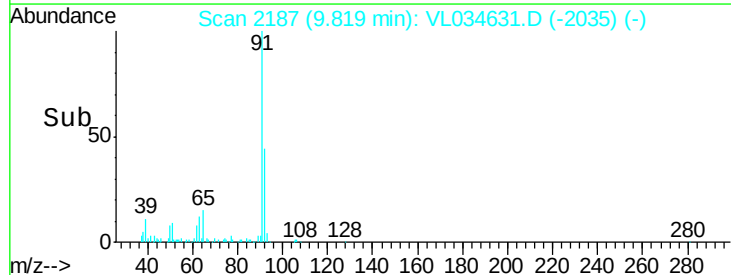
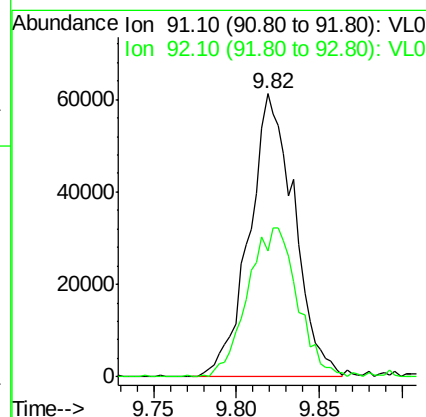
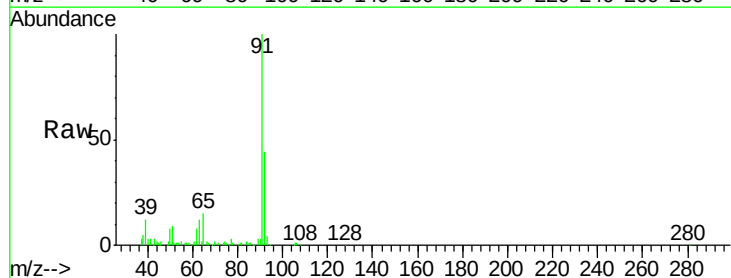
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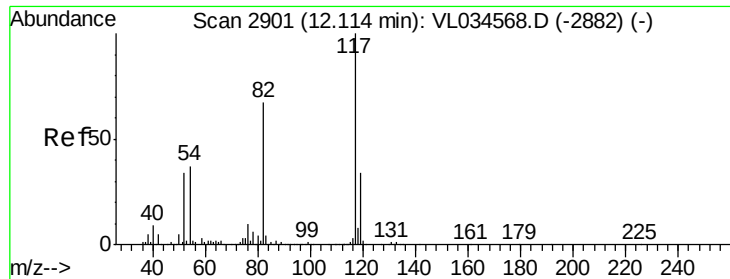
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#53
Toluene
Concen: 0.622 ppbv
RT: 9.82 min Scan# 2187
Delta R.T. -0.01 min
Lab File: VL034631.D
Acq: 18 Feb 2020 19:40

Tgt Ion	Ratio	Lower	Upper
91	100		
92	58.4	48.2	72.2





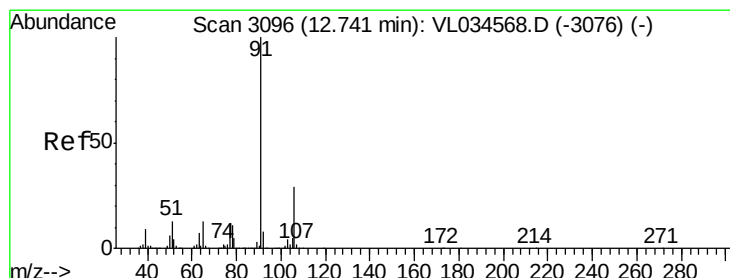
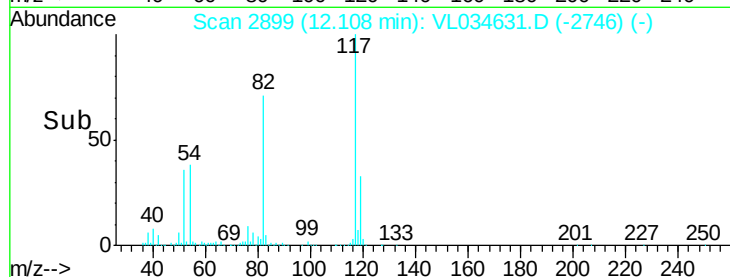
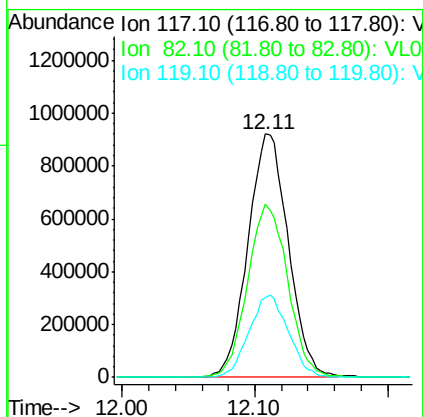
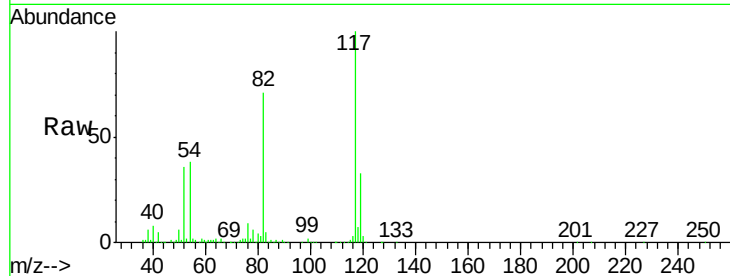
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.11 min Scan# 2899
Delta R.T. -0.01 min
Lab File: VL034631.D
Acq: 18 Feb 2020 19:40

Instrument :
MSVOA_L
ClientSampleId :
IR-PRSS

Tot Ion	Ratio	Lower	Upper
117	100		
82	71.2	54.2	81.4
119	33.2	26.1	39.1

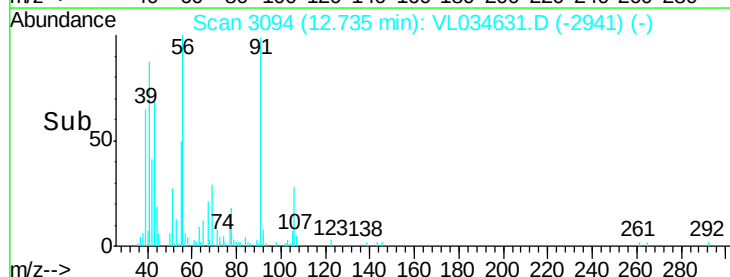
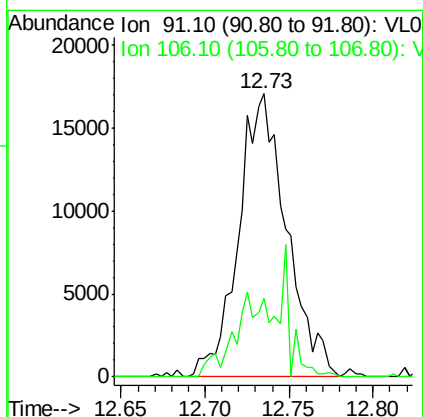
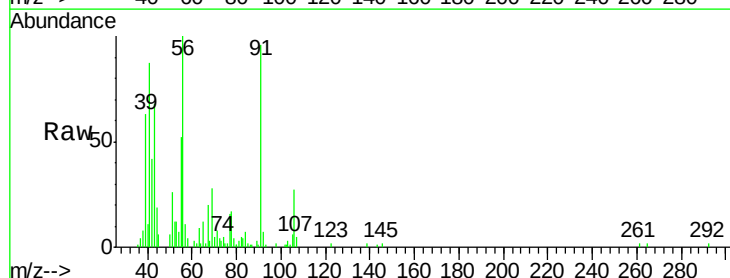
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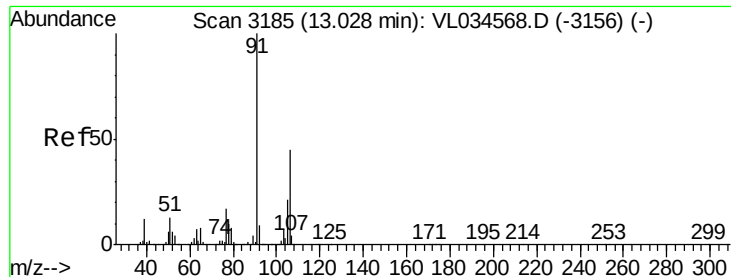
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#58
Ethyl Benzene
Concen: 0.130 ppbv m
RT: 12.73 min Scan# 3094
Delta R.T. -0.01 min
Lab File: VL034631.D
Acq: 18 Feb 2020 19:40

Tgt Ion	Ratio	Lower	Upper
91	100		
106	27.9	23.3	34.9





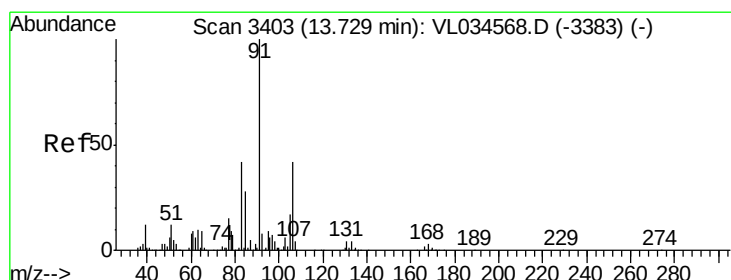
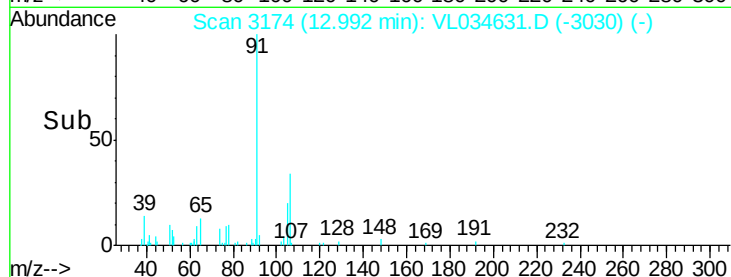
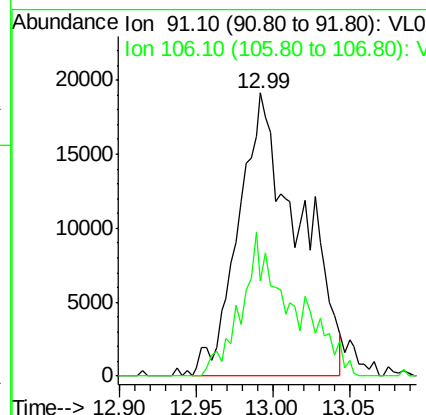
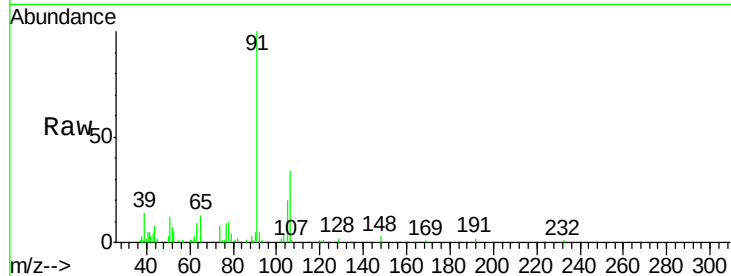
#59
m/p-Xylene
Concen: 0.228 ppbv m
RT: 12.99 min Scan# 3174
Delta R.T. -0.04 min
Lab File: VL034631.D
Acq: 18 Feb 2020 19:40

Instrument :
MSVOA_L
ClientSampled :
IR-PRSS

Tot Ion	Ratio	Lower	Upper
91	100		
106	0.0	35.3	52.9#

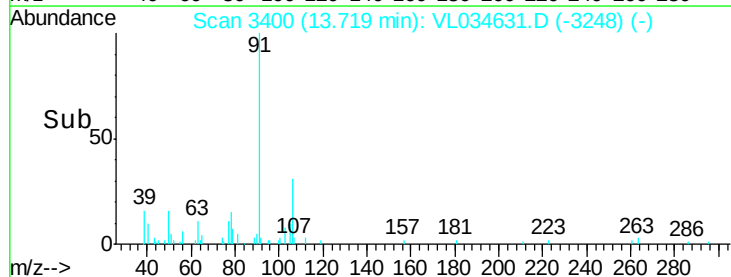
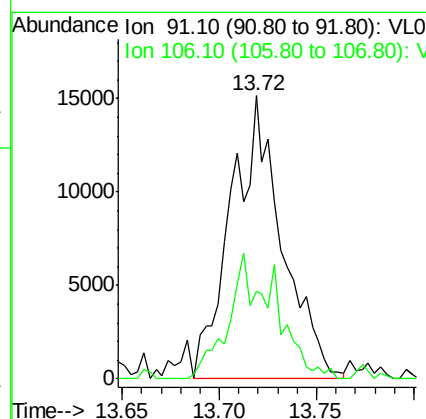
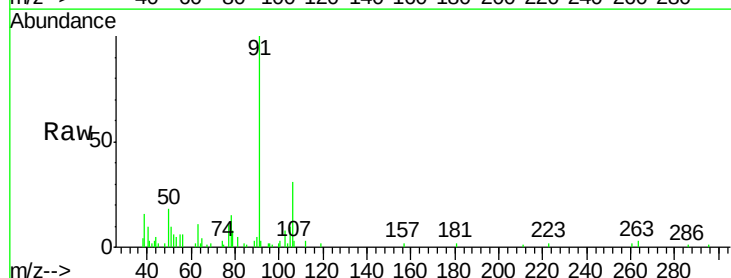
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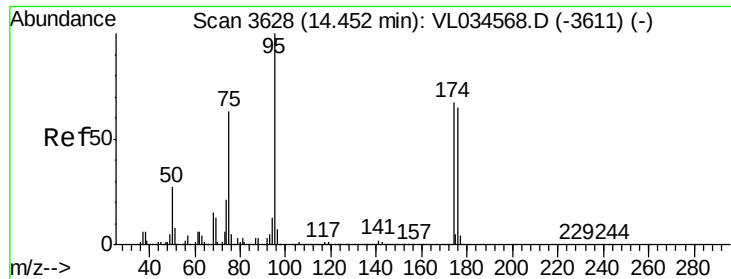
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#60
o-Xylene
Concen: 0.120 ppbv m
RT: 13.72 min Scan# 3400
Delta R.T. -0.01 min
Lab File: VL034631.D
Acq: 18 Feb 2020 19:40

Tgt Ion	Ratio	Lower	Upper
91	100		
106	0.0	21.6	65.0#





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.441 ppbv
 RT: 14.45 min Scan# 3626
 Delta R.T. -0.01 min
 Lab File: VL034631.D
 Acq: 18 Feb 2020 19:40

Instrument :
 MSVOA_L
 ClientSampleId :
 IR-PRSS

Tot Ion: 95 Resp: 1718064
 Ion Ratio Lower Upper
 95 100
 174 64.5 52.3 78.5
 175 4.7 3.8 5.6

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