

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL091620\
 Data File : VL035633.D
 Acq On : 16 Sep 2020 17:48
 Operator : SY/AP
 Sample : L4026-02DUP
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 TRC-IA-02DUP

Manual Integrations
 APPROVED

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 9/17/2020 1:52:33 PM

Quant Time: Sep 17 10:37:35 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL082720AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Sep 14 2020
 QLast Update : Mon Sep 14 15:19:50 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1044532	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	4236869	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	4370997	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	3278606	10.56	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	51697	0.286	ppbv	91
3) Chlorodifluoromethane	2.98	51	52596m	0.455	ppbv	
4) Chloromethane	3.13	50	34556	0.558	ppbv	98
9) Propene	3.01	41	23731	0.533	ppbv #	78
11) Trichlorofluoromethane	3.94	101	69554	0.263	ppbv	97
13) Ethanol	3.60	45	1471954	133.300	ppbv	98
15) Acetone	3.84	43	559466	4.856	ppbv	98
19) Isopropyl Alcohol	3.97	45	210479	3.063	ppbv #	92
20) Methylene Chloride	4.34	84	249224	2.905	ppbv	97
26) Hexane	5.69	57	97300	0.844	ppbv #	51
34) 2-Butanone	5.25	43	39233	0.312	ppbv	99
35) Carbon Tetrachloride	7.02	117	15738	0.074	ppbv #	86
36) Benzene	6.89	78	39713	0.145	ppbv	95
44) 2,2,4-Trimethylpentane	7.86	57	40240m	0.112	ppbv	
52) Tetrachloroethene	11.22	164	8162m	0.051	ppbv	
53) Toluene	9.81	91	364640	1.057	ppbv	96
58) Ethyl Benzene	12.72	91	59297	0.132	ppbv #	84
59) m/p-Xylene	12.98	91	257158	0.683	ppbv	94
60) o-Xylene	13.70	91	100010	0.264	ppbv	93
72) 4-Ethyltoluene	15.85	105	62650	0.130	ppbv #	94
73) 1,3,5-Trimethylbenzene	16.01	105	98558	0.221	ppbv #	84
74) 1,2,4-Trimethylbenzene	16.77	105	306085	0.625	ppbv #	70
76) 1,4-Dichlorobenzene	17.15	146	39054	0.109	ppbv #	79
79) Naphthalene	22.22	128	45079m	0.083	ppbv	

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

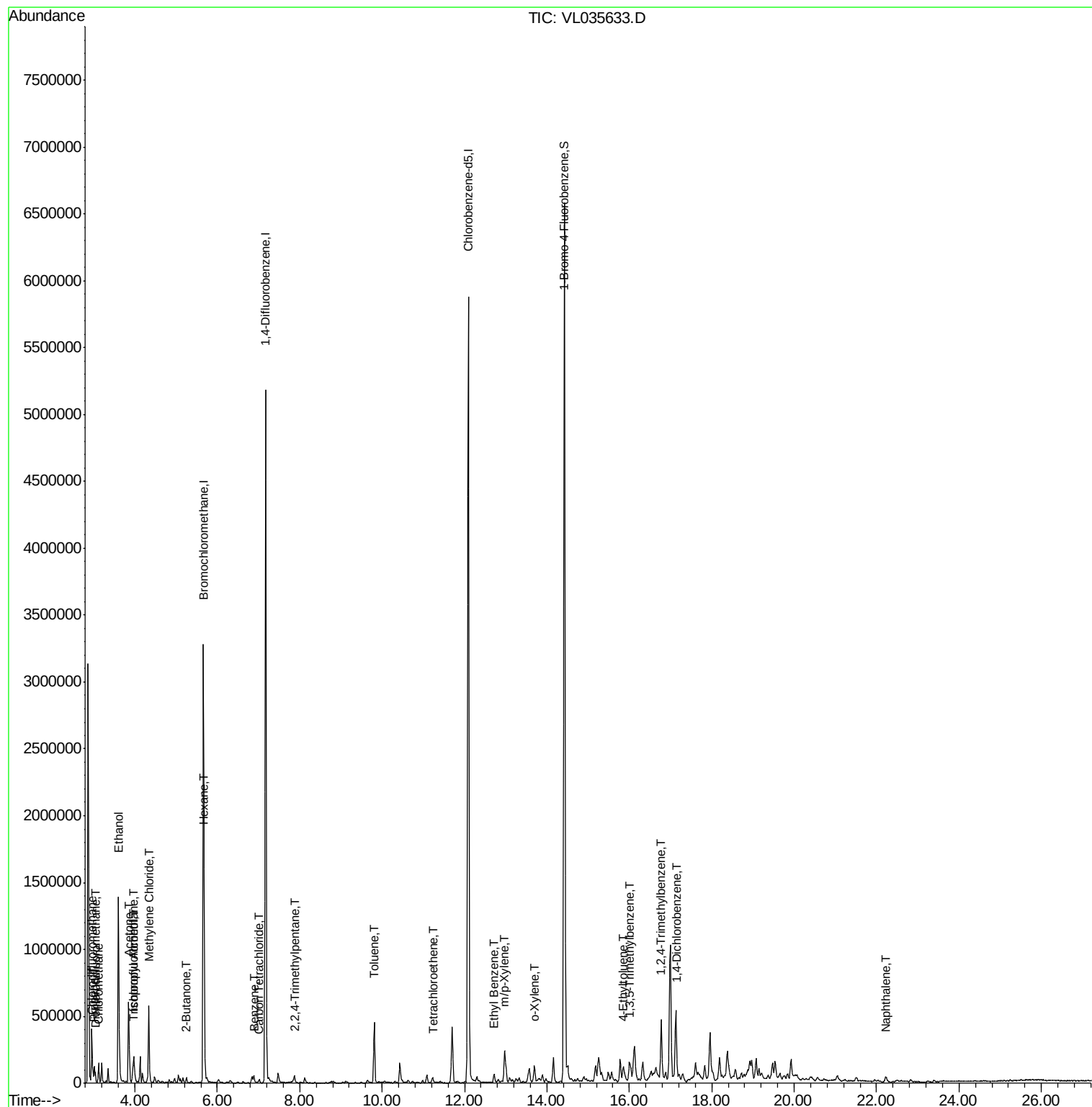
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL091620\
Data File : VL035633.D
Acq On : 16 Sep 2020 17:48
Operator : SY/AP
Sample : L4026-02DUP
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

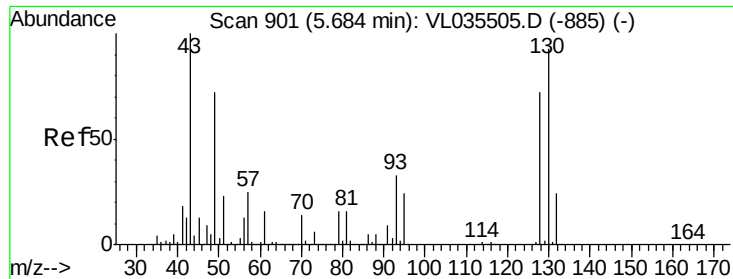
Instrument :
MSVOA_L
ClientSampleId :
TRC-IA-02DUP

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Quant Time: Sep 17 10:37:35 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL082720AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Sep
QLast Update : Mon Sep 14 15:19:50 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 894

Delta R.T. -0.00 min

Lab File: VL035633.D

Acq: 16 Sep 2020 17:48

Instrument :

MSVOA_L

ClientSampleId :

TRC-IA-02DUP

Tot Ion: 49 Resp: 1044532

Ion Ratio Lower Upper

49 100

128 89.5 50.0 150.1

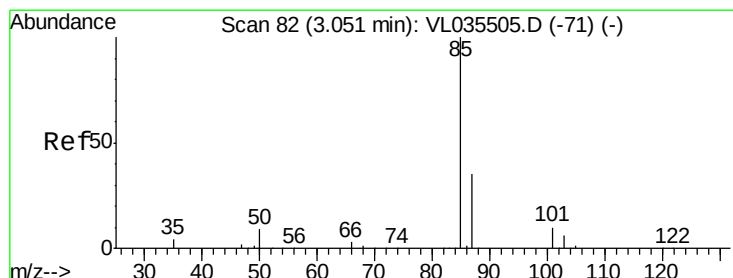
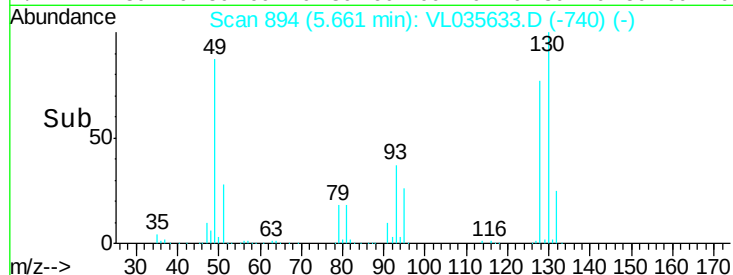
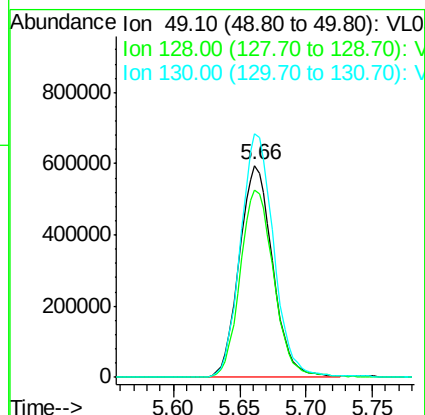
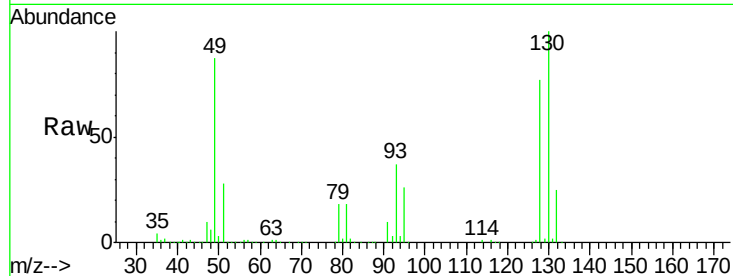
130 114.8 64.4 193.2

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#2

Dichlorodifluoromethane

Concen: 0.286 ppbv

RT: 3.04 min Scan# 79

Delta R.T. 0.01 min

Lab File: VL035633.D

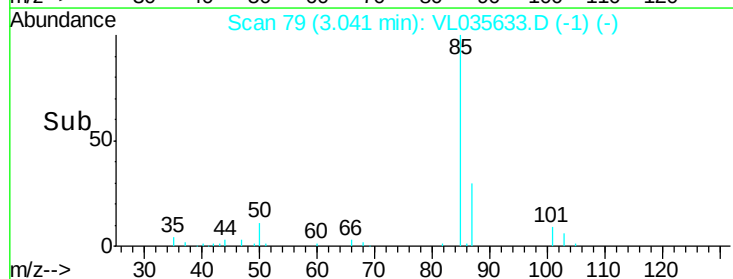
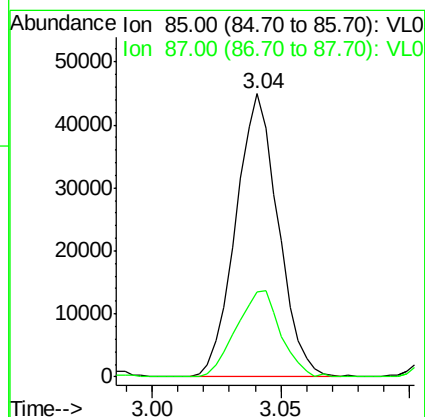
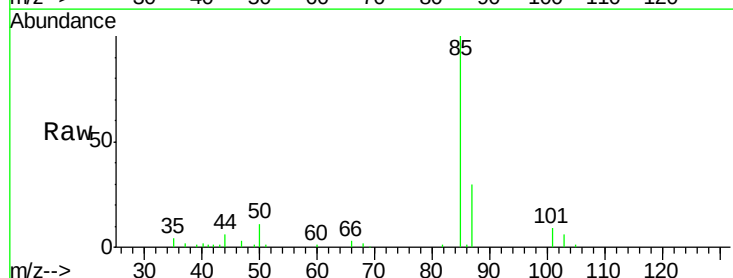
Acq: 16 Sep 2020 17:48

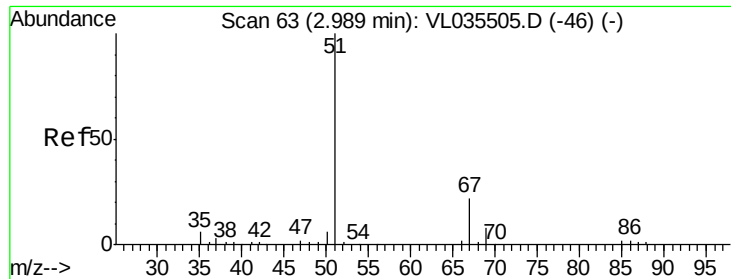
Tgt Ion: 85 Resp: 51697

Ion Ratio Lower Upper

85 100

87 29.9 28.0 42.0





#3

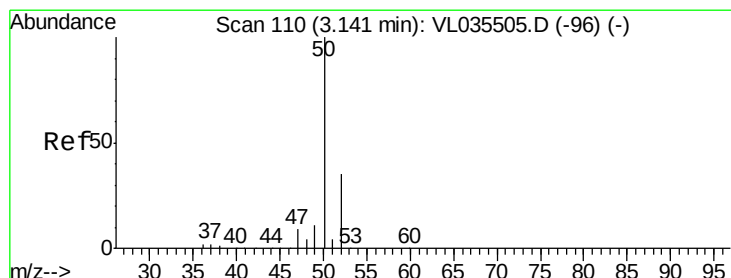
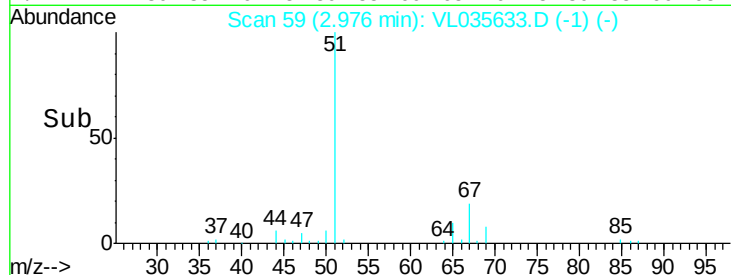
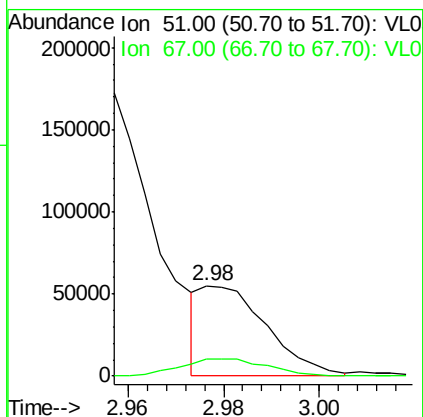
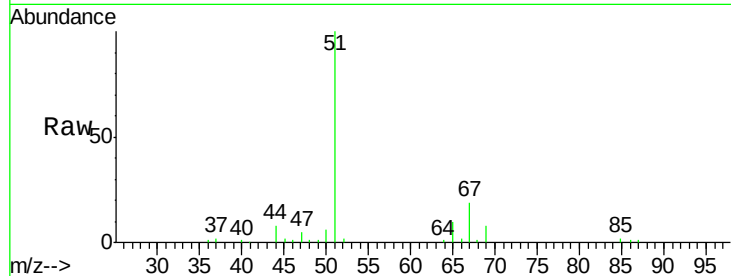
Chlorodifluoromethane
Concen: 0.455 ppbv
RT: 2.98 min Scan# 59
Delta R.T. 0.00 min
Lab File: VL035633.D
Acq: 16 Sep 2020 17:48

Instrument :
MSVOA_L
ClientSampleId :
TRC-IA-02DUP

Tot Ion: 51 Resp: 52596
Ion Ratio Lower Upper
51 100
67 26.1 17.8 26.8

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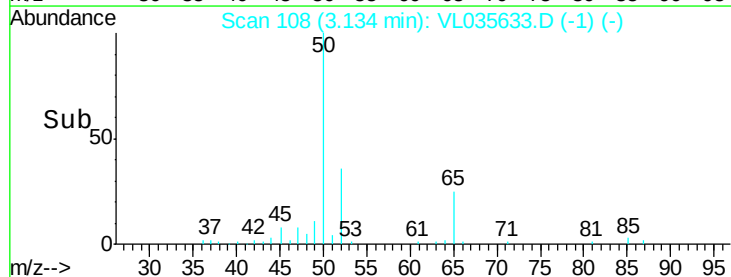
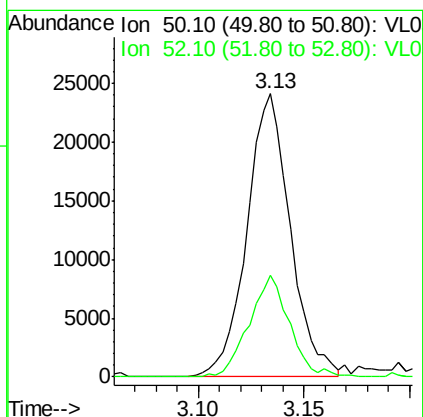
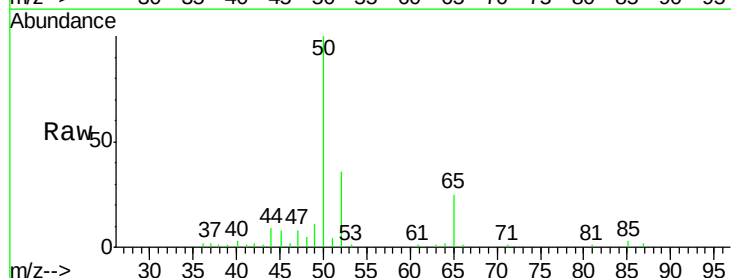
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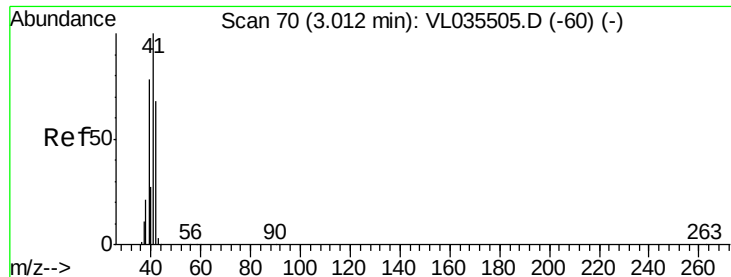


#4

Chloromethane
Concen: 0.558 ppbv
RT: 3.13 min Scan# 108
Delta R.T. 0.01 min
Lab File: VL035633.D
Acq: 16 Sep 2020 17:48

Tgt Ion: 50 Resp: 34556
Ion Ratio Lower Upper
50 100
52 36.0 27.7 41.5





#9

Propene

Concen: 0.533 ppbv

RT: 3.01 min Scan# 70

Delta R.T. 0.02 min

Lab File: VL035633.D

Acq: 16 Sep 2020 17:48

Instrument :

MSVOA_L

ClientSampleId :

TRC-IA-02DUP

Tot Ion: 41 Resp: 23731

Ion Ratio Lower Upper

41 100

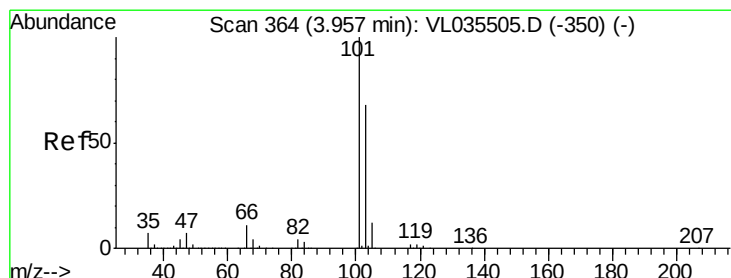
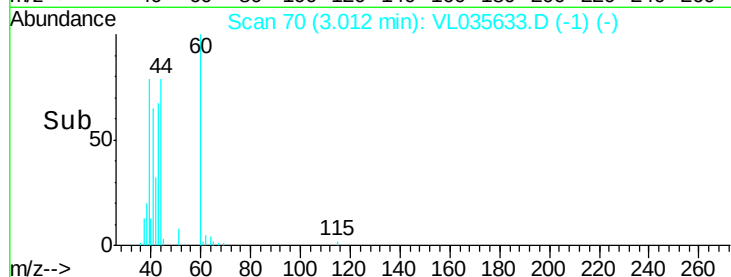
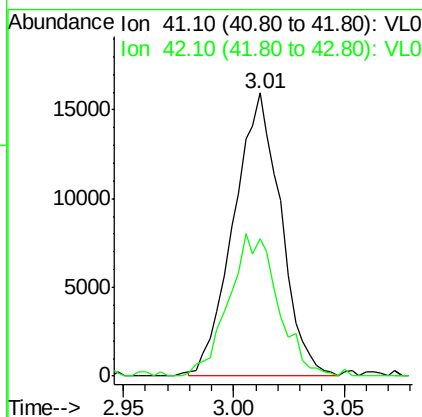
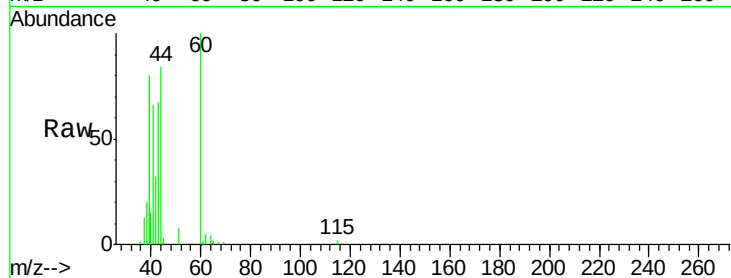
42 52.6 56.3 84.5#

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#11

Trichlorofluoromethane

Concen: 0.263 ppbv

RT: 3.94 min Scan# 360

Delta R.T. 0.00 min

Lab File: VL035633.D

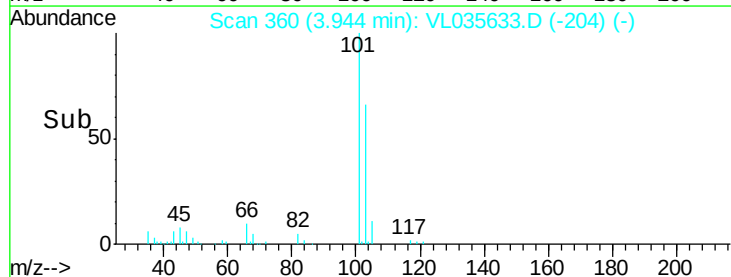
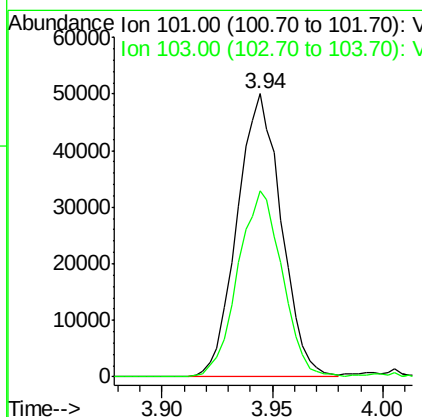
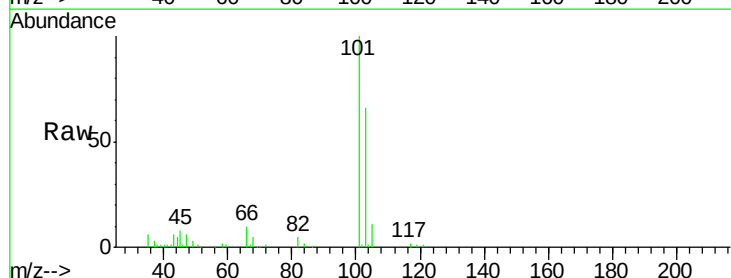
Acq: 16 Sep 2020 17:48

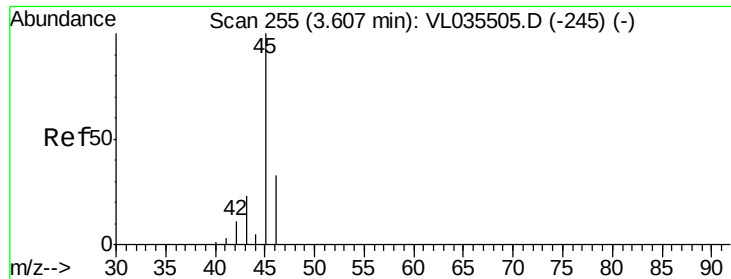
Tgt Ion: 101 Resp: 69554

Ion Ratio Lower Upper

101 100

103 65.5 54.5 81.7





#13

Ethanol

Concen: 133.300 ppbv

RT: 3.60 min Scan# 252

Delta R.T. -0.00 min

Lab File: VL035633.D

Acq: 16 Sep 2020 17:48

Instrument :

MSVOA_L

ClientSampleId :

TRC-IA-02DUP

Tot Ion: 45 Resp: 1471954

Ion Ratio Lower Upper

45 100

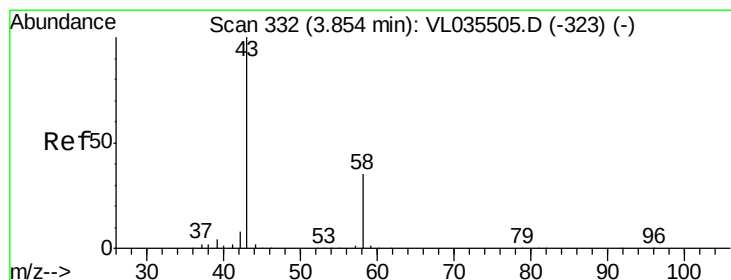
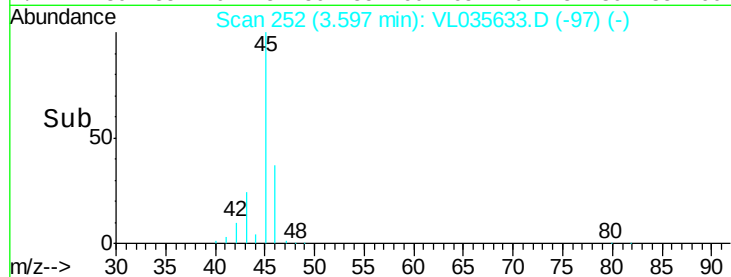
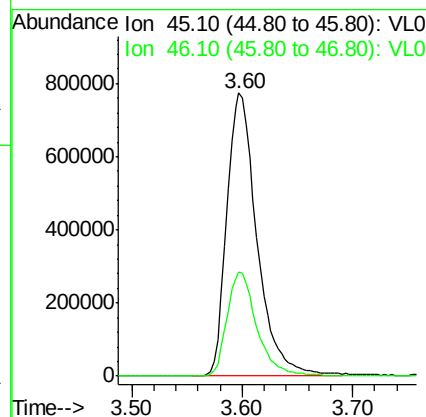
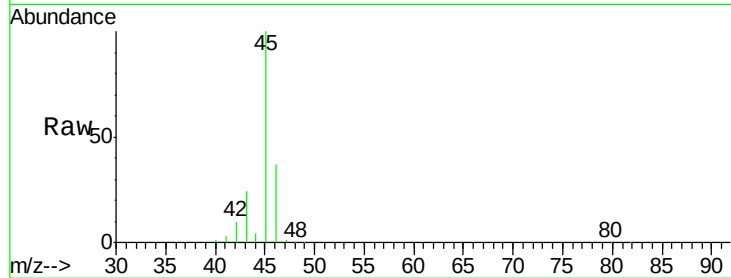
46 36.7 15.2 60.6

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#15

Acetone

Concen: 4.856 ppbv

RT: 3.84 min Scan# 329

Delta R.T. 0.01 min

Lab File: VL035633.D

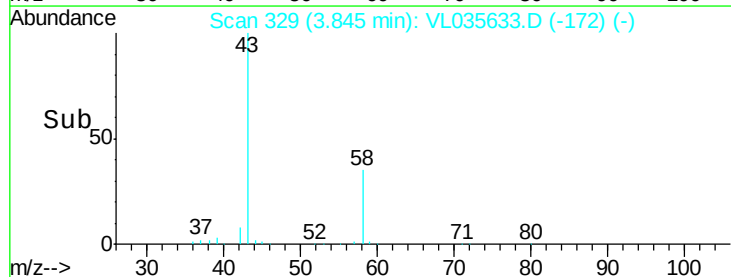
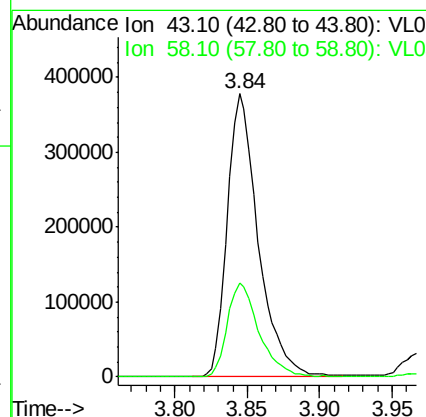
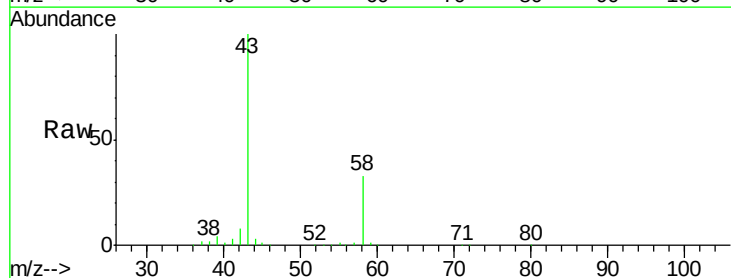
Acq: 16 Sep 2020 17:48

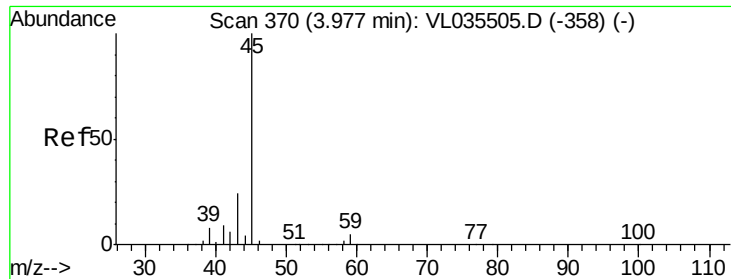
Tgt Ion: 43 Resp: 559466

Ion Ratio Lower Upper

43 100

58 34.2 28.4 42.6





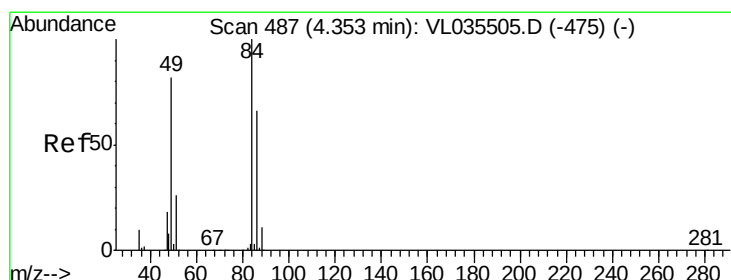
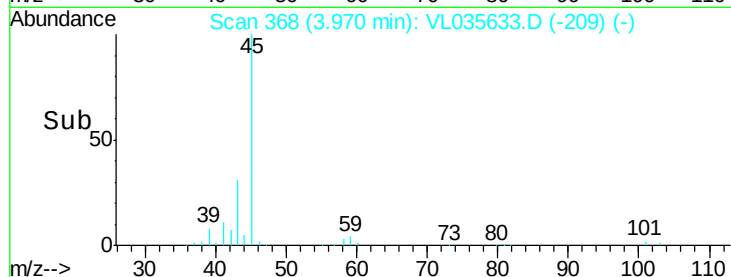
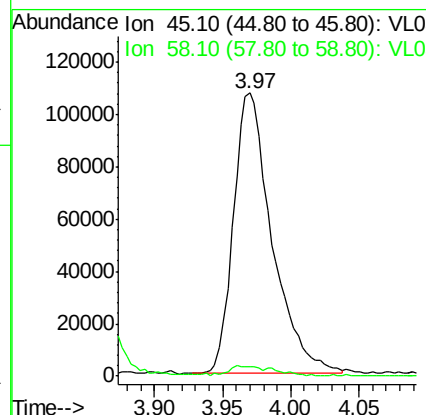
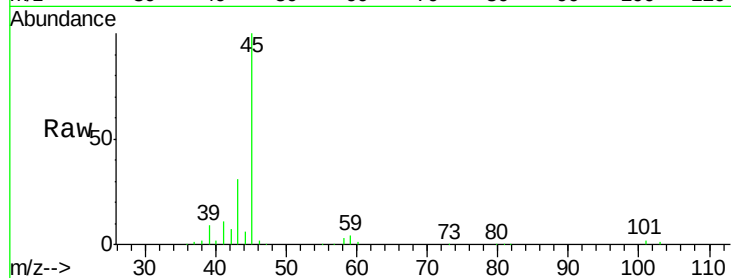
#19
Isopropyl Alcohol
Concen: 3.063 ppbv
RT: 3.97 min Scan# 368
Delta R.T. 0.01 min
Lab File: VL035633.D
Acq: 16 Sep 2020 17:48

Instrument :
MSVOA_L
ClientSampleId :
TRC-IA-02DUP

Tot Ion	Ratio	Lower	Upper
45	100		
58	5.1	2.0	3.0#

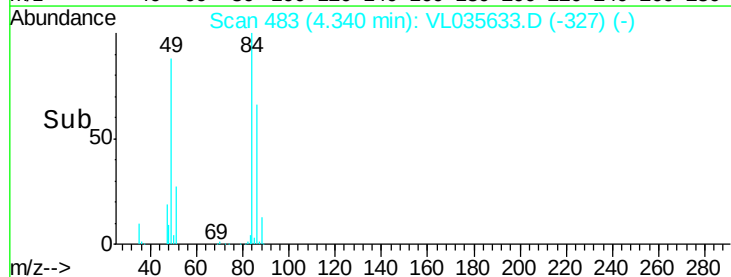
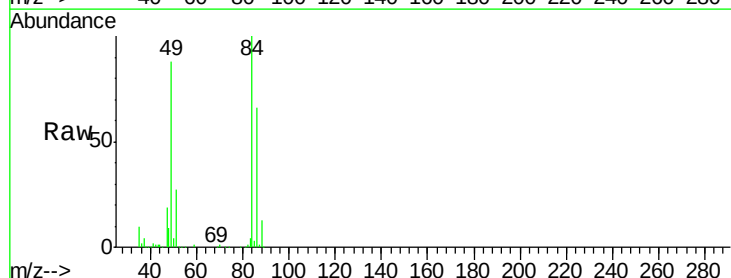
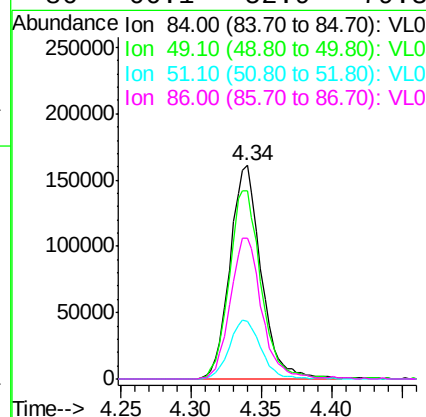
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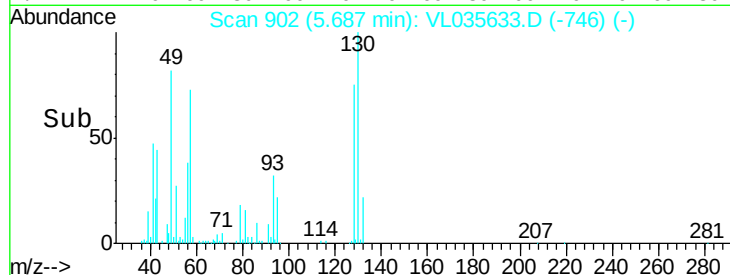
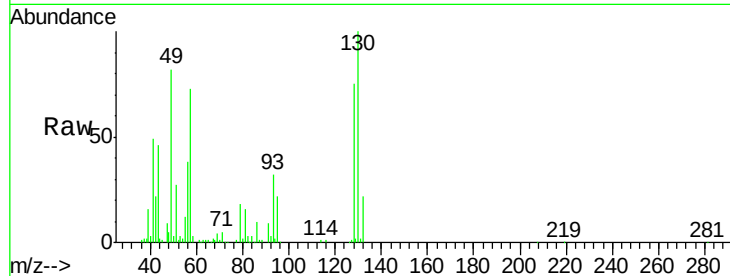
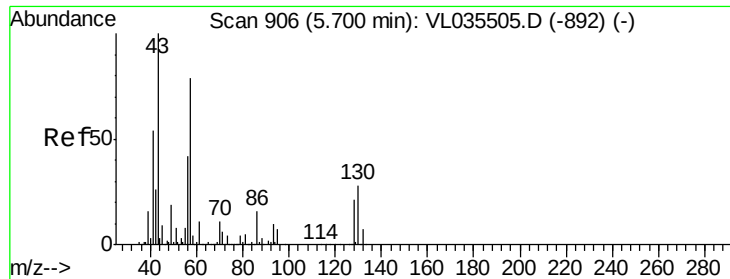
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#20
Methylene Chloride
Concen: 2.905 ppbv
RT: 4.34 min Scan# 483
Delta R.T. 0.00 min
Lab File: VL035633.D
Acq: 16 Sep 2020 17:48

Tgt Ion	Ratio	Lower	Upper
84	100		
49	88.2	65.4	98.0
51	27.1	21.5	32.3
86	66.1	52.9	79.3





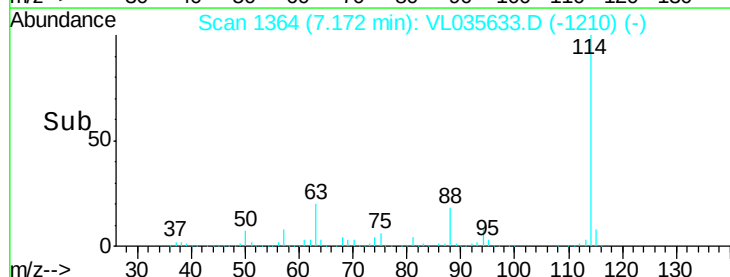
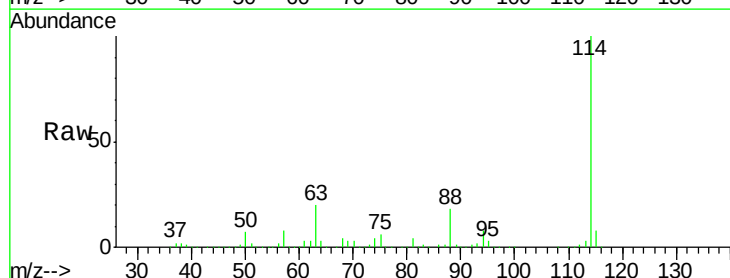
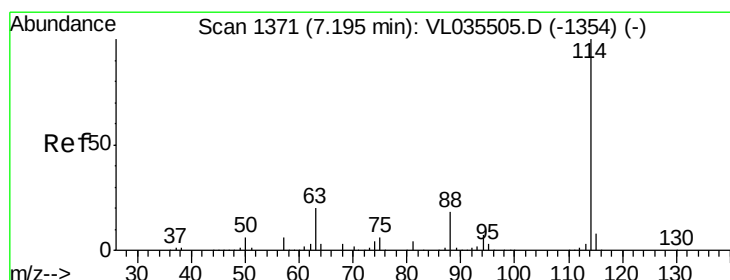
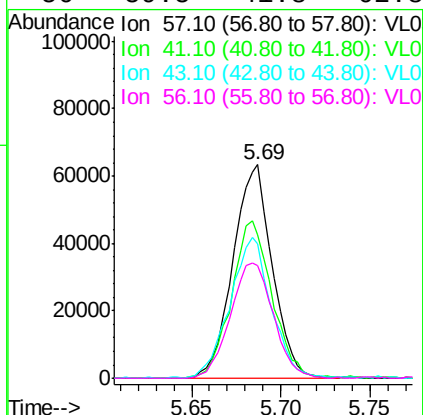
#26
Hexane
Concen: 0.844 ppbv
RT: 5.69 min Scan# 902
Delta R.T. 0.00 min
Lab File: VL035633.D
Acq: 16 Sep 2020 17:48

Tot Ion	Ratio	Lower	Upper
57	100		
41	76.4	55.9	83.9
43	70.6	141.8	212.8#
56	59.5	41.8	62.8

Instrument :
MSVOA_L
ClientSampleId :
TRC-IA-02DUP

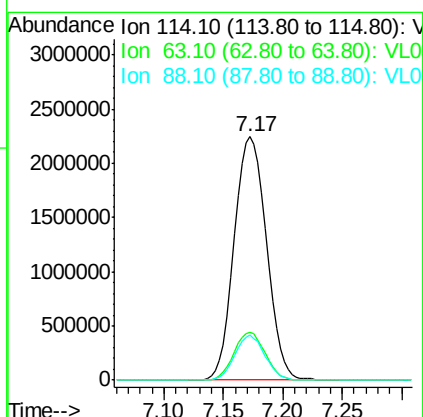
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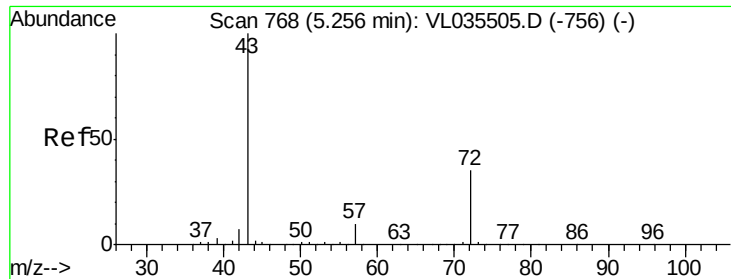
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.17 min Scan# 1364
Delta R.T. -0.00 min
Lab File: VL035633.D
Acq: 16 Sep 2020 17:48

Tgt Ion	Ratio	Lower	Upper
114	100		
63	19.1	14.7	22.1
88	17.2	13.4	20.2





#34

2-Butanone

Concen: 0.312 ppbv

RT: 5.25 min Scan# 766

Delta R.T. 0.01 min

Lab File: VL035633.D

Acq: 16 Sep 2020 17:48

Instrument :

MSVOA_L

ClientSampleId :

TRC-IA-02DUP

Tot Ion: 43 Resp: 39233

Ion Ratio Lower Upper

43 100

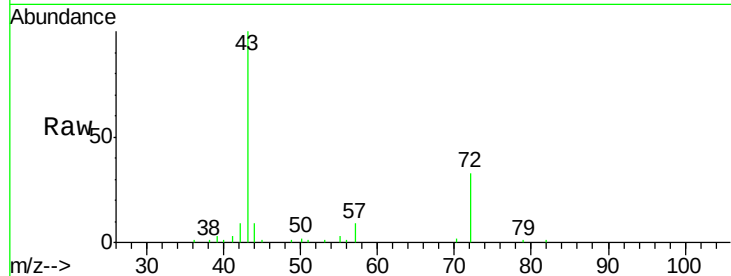
72 33.8 27.7 41.5

Manual Integrations

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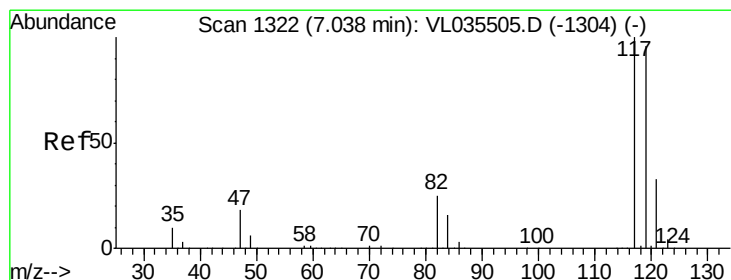
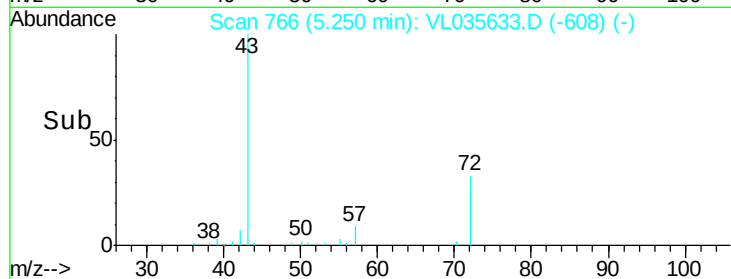
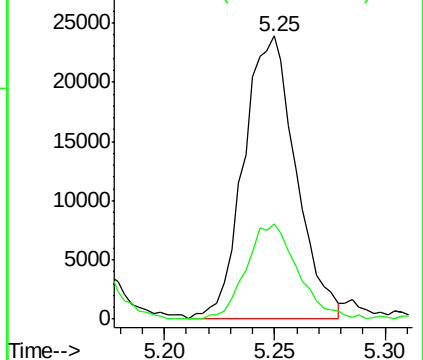
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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0



#35

Carbon Tetrachloride

Concen: 0.074 ppbv

RT: 7.02 min Scan# 1316

Delta R.T. -0.00 min

Lab File: VL035633.D

Acq: 16 Sep 2020 17:48

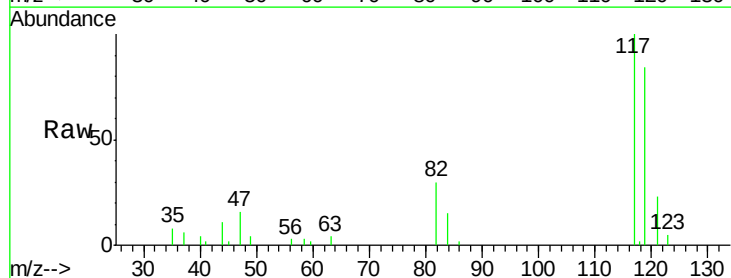
Tgt Ion: 117 Resp: 15738

Ion Ratio Lower Upper

117 100

119 83.7 77.2 115.8

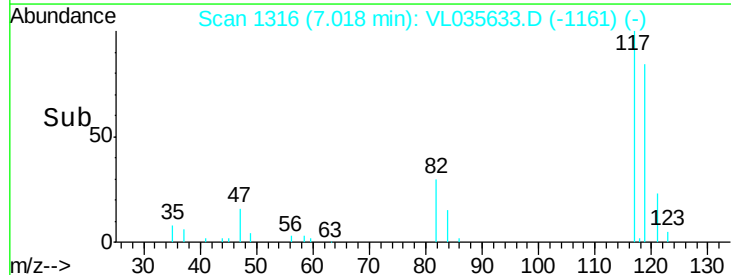
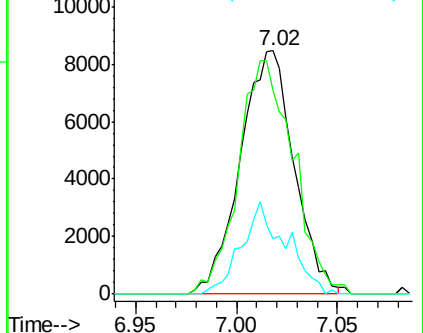
121 22.6 26.1 39.1#

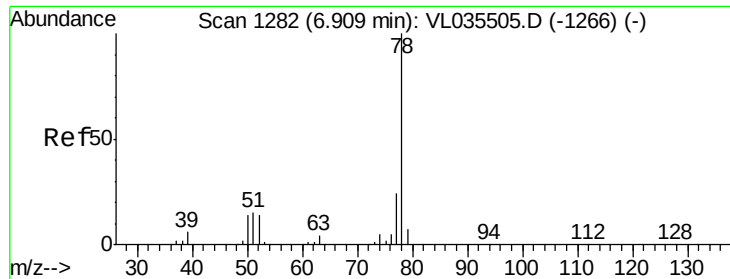


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V





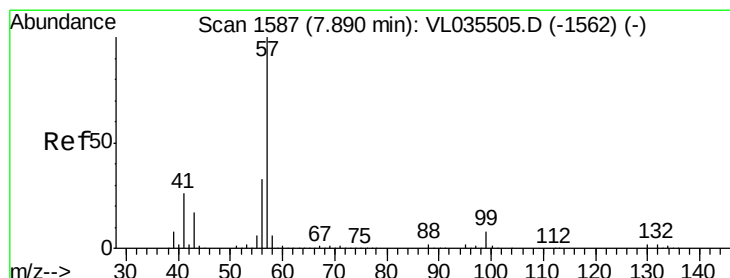
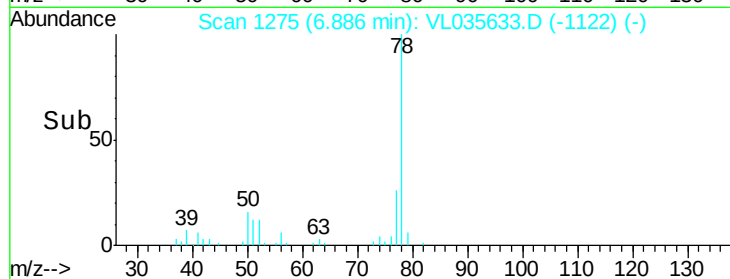
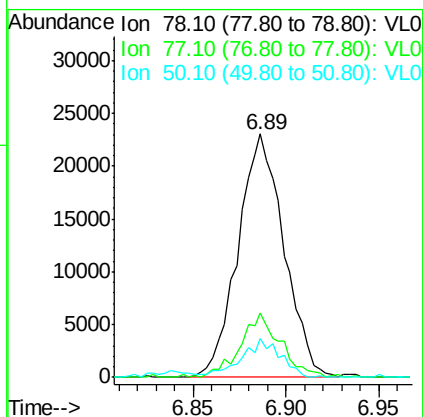
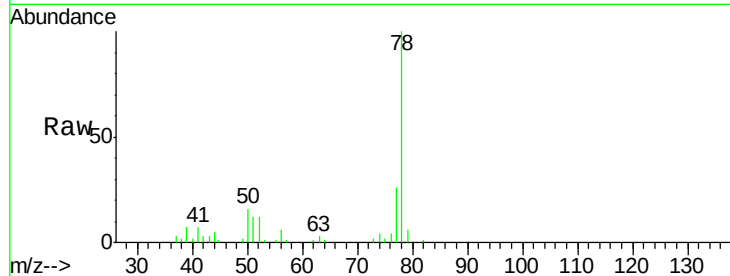
#36
Benzene
Concen: 0.145 ppbv
RT: 6.89 min Scan# 1275
Delta R.T. -0.01 min
Lab File: VL035633.D
Acq: 16 Sep 2020 17:48

Instrument :
MSVOA_L
ClientSampleId :
TRC-IA-02DUP

Tot Ion	Ratio	Lower	Upper
78	100		
77	26.3	19.3	28.9
50	15.8	11.0	16.6

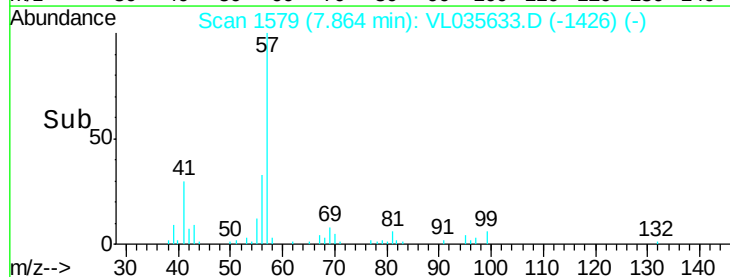
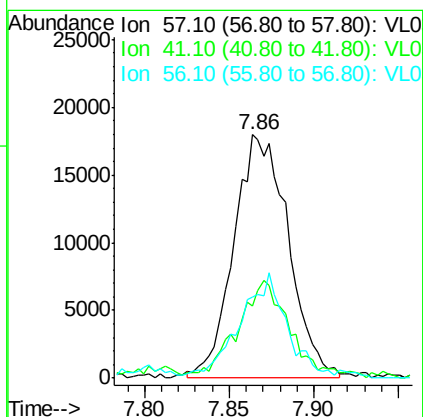
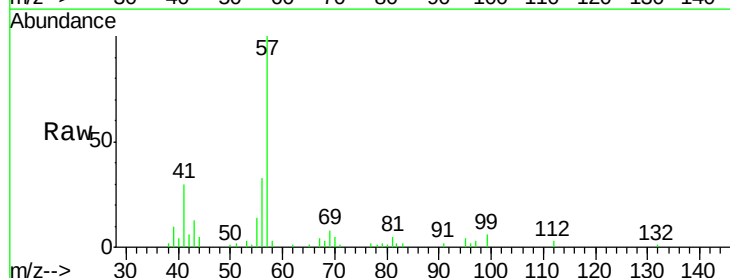
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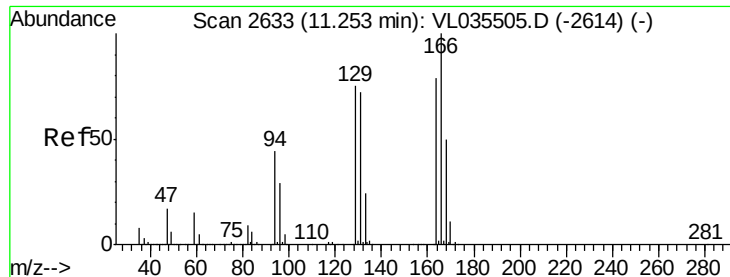
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#44
2,2,4-Trimethylpentane
Concen: 0.112 ppbv m
RT: 7.86 min Scan# 1579
Delta R.T. -0.01 min
Lab File: VL035633.D
Acq: 16 Sep 2020 17:48

Tgt Ion	Ratio	Lower	Upper
57	100		
41	39.6	20.5	30.7#
56	38.7	25.3	37.9#





#52

Tetrachloroethene

Concen: 0.051 ppbv m

RT: 11.22 min Scan# 2624

Delta R.T. -0.01 min

Lab File: VL035633.D

Acq: 16 Sep 2020 17:48

Instrument :

MSVOA_L

ClientSampleId :

TRC-IA-02DUP

Tot Ion:164 Resp: 8162

Ion Ratio Lower Upper

164 100

166 89.3 100.9 151.3#

129 87.2 75.3 112.9

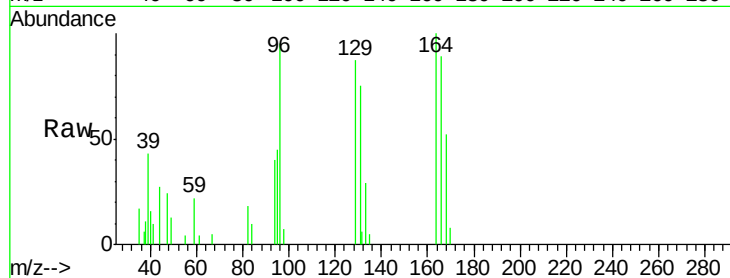
131 75.3 73.0 109.4

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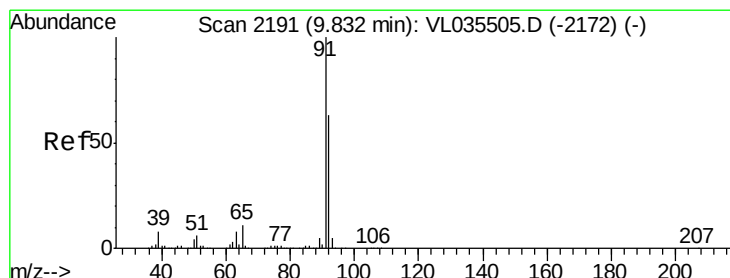
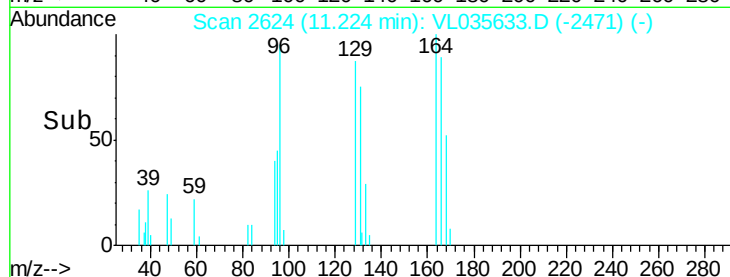
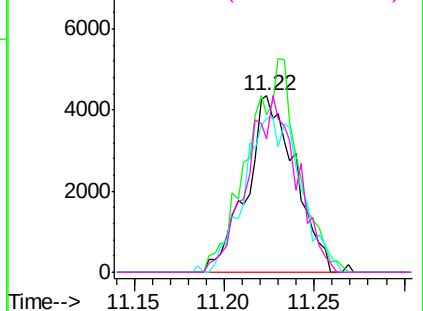


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#53

Toluene

Concen: 1.057 ppbv

RT: 9.81 min Scan# 2183

Delta R.T. -0.01 min

Lab File: VL035633.D

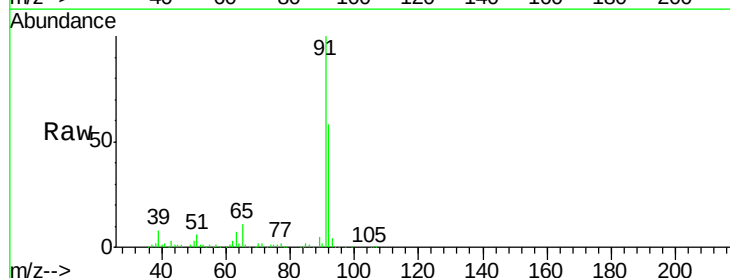
Acq: 16 Sep 2020 17:48

Tgt Ion: 91 Resp: 364640

Ion Ratio Lower Upper

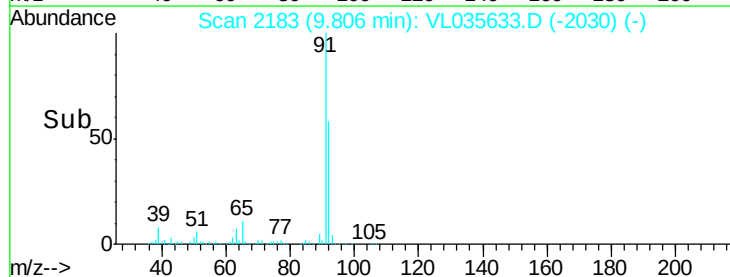
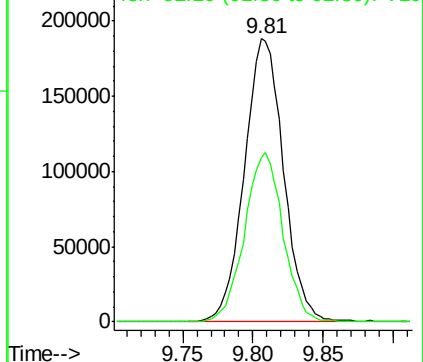
91 100

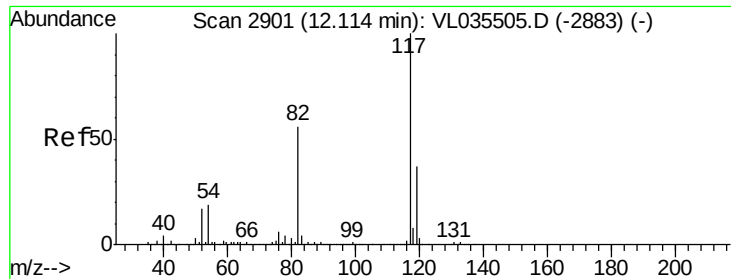
92 59.1 49.8 74.8



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0





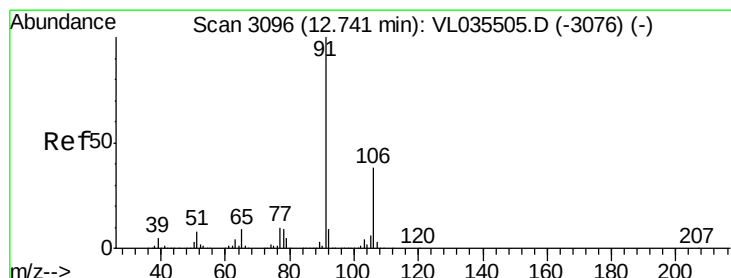
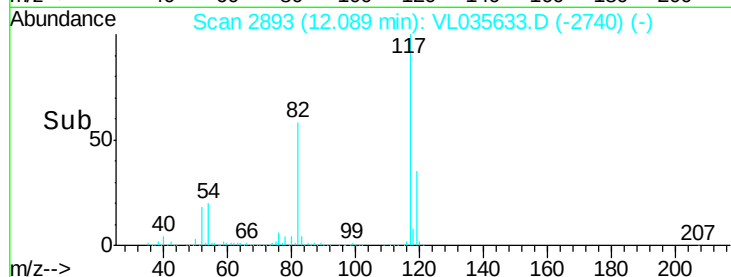
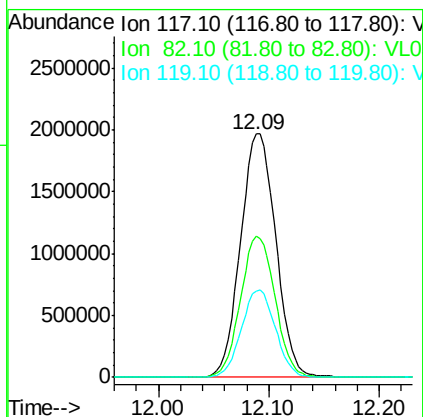
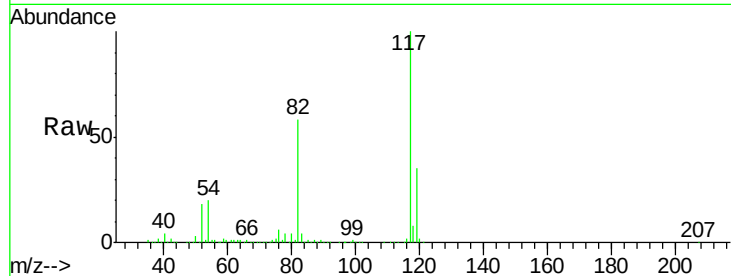
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.09 min Scan# 2893
Delta R.T. -0.01 min
Lab File: VL035633.D
Acq: 16 Sep 2020 17:48

Instrument :
MSVOA_L
ClientSampleId :
TRC-IA-02DUP

Tot Ion:117 Resp: 4370997
Ion Ratio Lower Upper
117 100
82 57.1 41.6 62.4
119 34.7 29.3 43.9

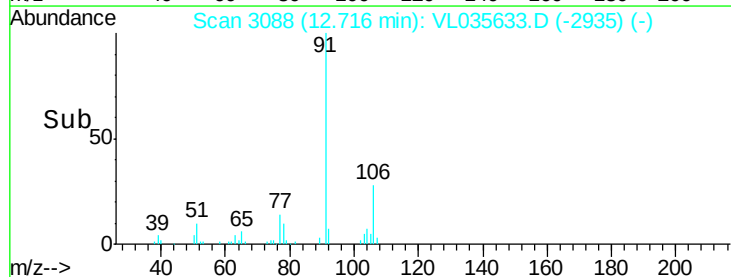
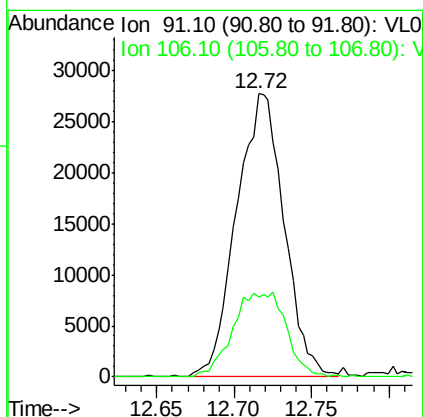
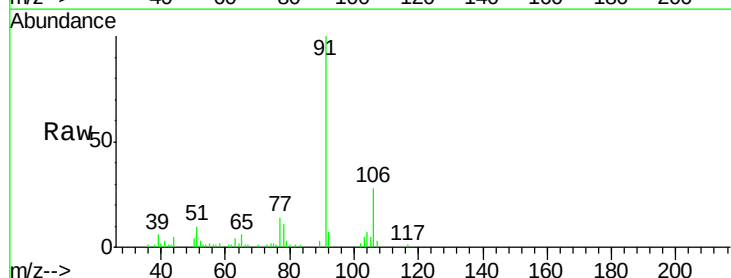
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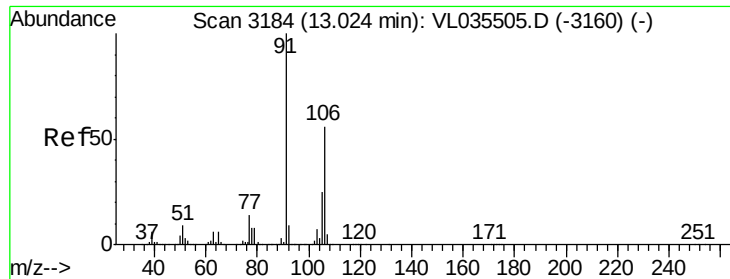
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#58
Ethyl Benzene
Concen: 0.132 ppbv
RT: 12.72 min Scan# 3088
Delta R.T. -0.01 min
Lab File: VL035633.D
Acq: 16 Sep 2020 17:48

Tgt Ion: 91 Resp: 59297
Ion Ratio Lower Upper
91 100
106 28.1 30.3 45.5#





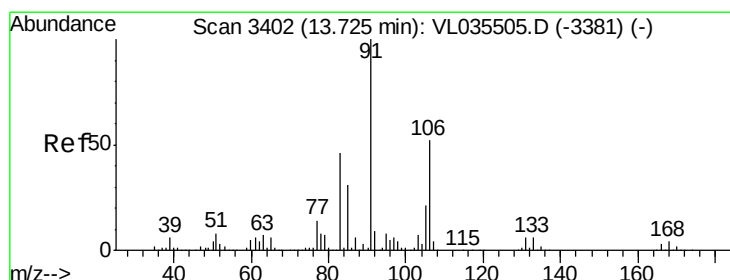
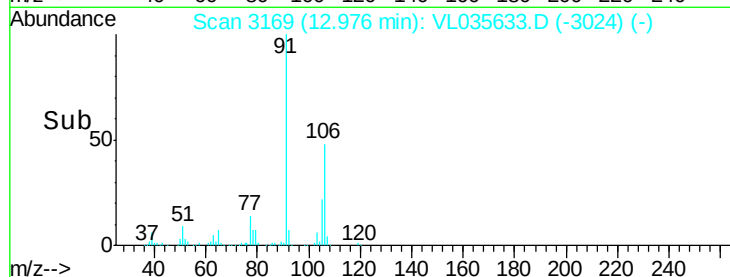
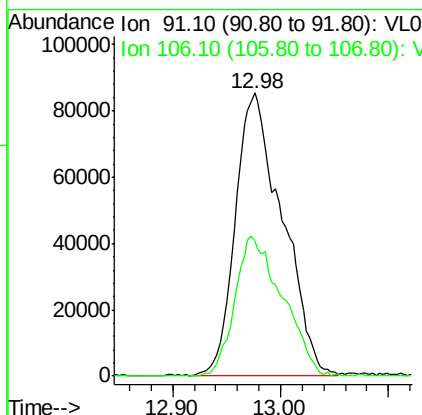
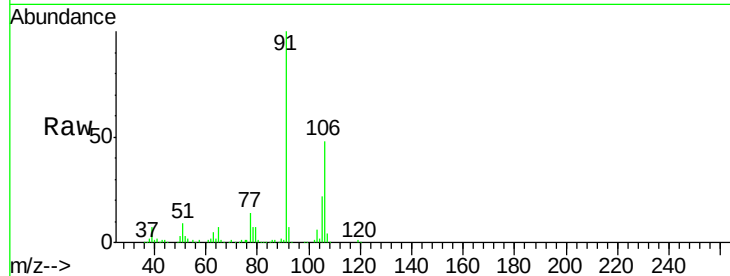
#59
m/p-Xylene
Concen: 0.683 ppbv
RT: 12.98 min Scan# 3169
Delta R.T. -0.03 min
Lab File: VL035633.D
Acq: 16 Sep 2020 17:48

Instrument :
MSVOA_L
ClientSampleId :
TRC-IA-02DUP

Tot Ion	Ratio	Lower	Upper
91	100		
106	50.2	43.4	65.2

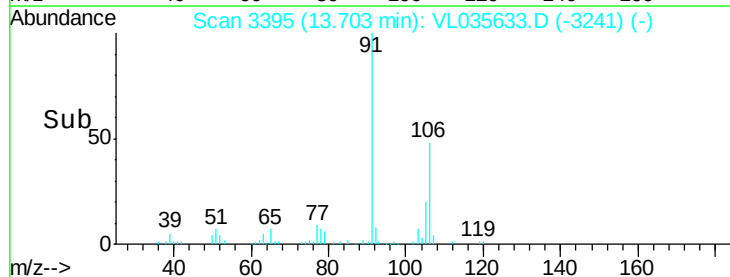
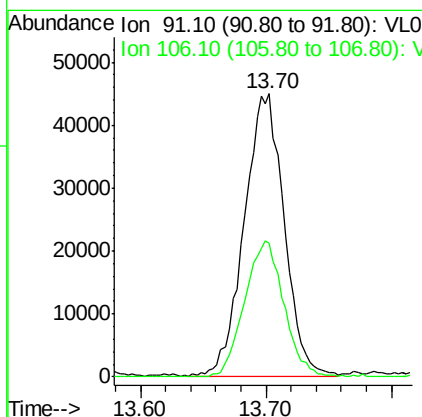
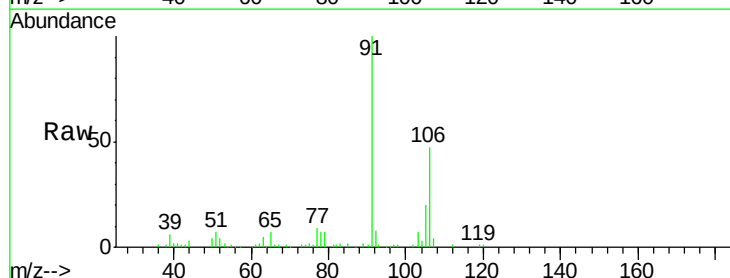
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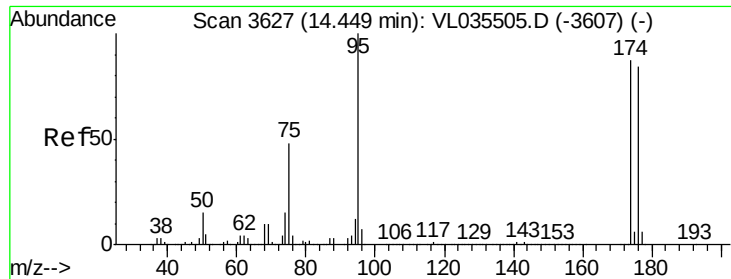
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#60
o-Xylene
Concen: 0.264 ppbv
RT: 13.70 min Scan# 3395
Delta R.T. -0.00 min
Lab File: VL035633.D
Acq: 16 Sep 2020 17:48

Tgt Ion	Ratio	Lower	Upper
91	100		
106	46.9	25.8	77.4





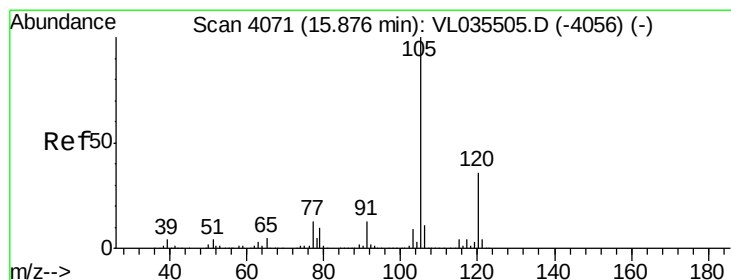
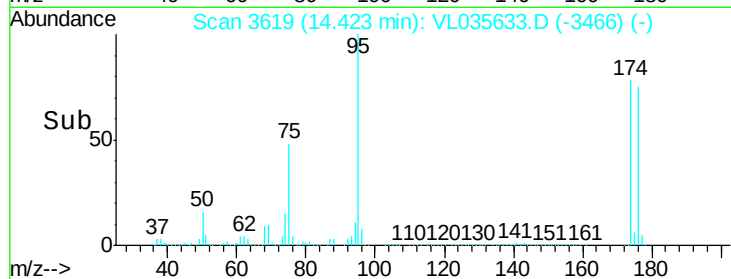
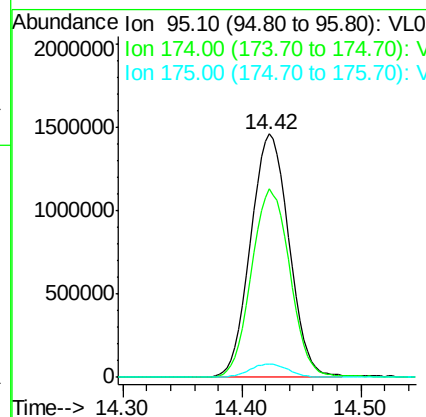
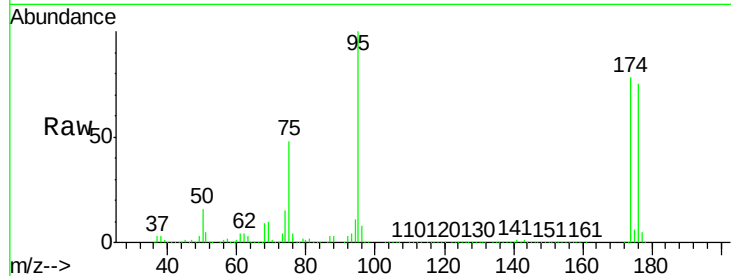
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.562 ppbv
 RT: 14.42 min Scan# 3619
 Delta R.T. -0.01 min
 Lab File: VL035633.D
 Acq: 16 Sep 2020 17:48

Instrument :
 MSVOA_L
 ClientSampleId :
 TRC-IA-02DUP

Tot Ion: 95 Resp: 3278606
 Ion Ratio Lower Upper
 95 100
 174 78.3 69.6 104.4
 175 5.7 5.1 7.7

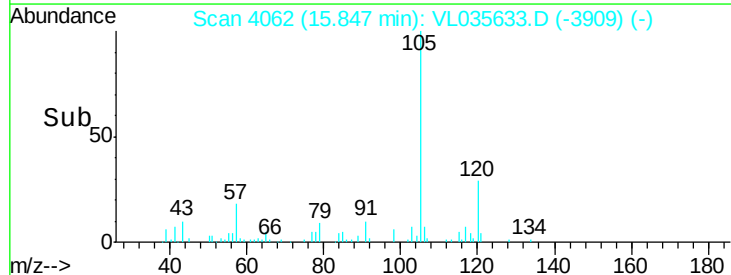
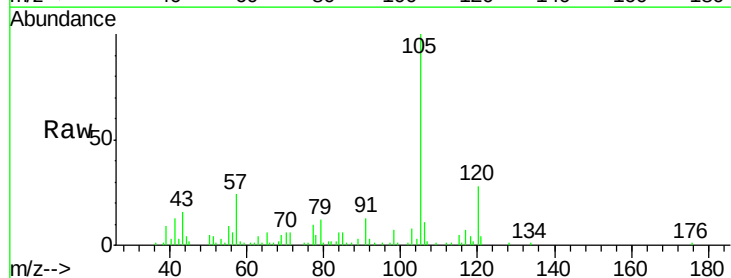
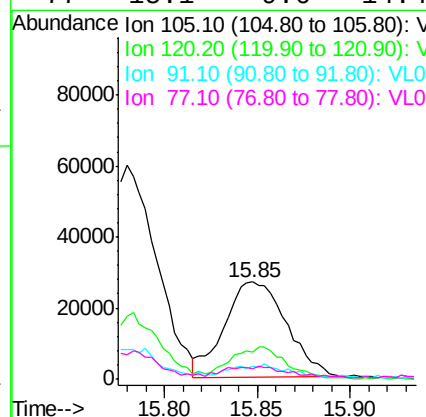
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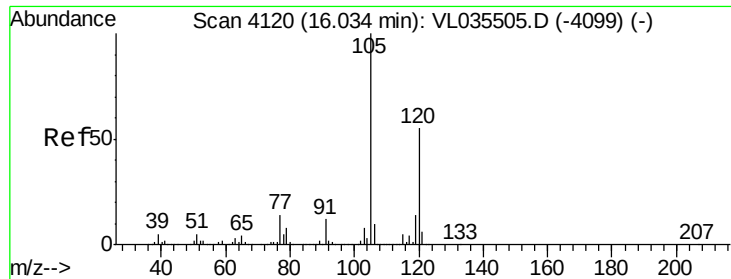
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#72
 4-Ethyltoluene
 Concen: 0.130 ppbv
 RT: 15.85 min Scan# 4062
 Delta R.T. -0.01 min
 Lab File: VL035633.D
 Acq: 16 Sep 2020 17:48

Tgt Ion: 105 Resp: 62650
 Ion Ratio Lower Upper
 105 100
 120 30.4 27.4 41.2
 91 13.2 9.7 14.5
 77 15.1 9.6 14.4#





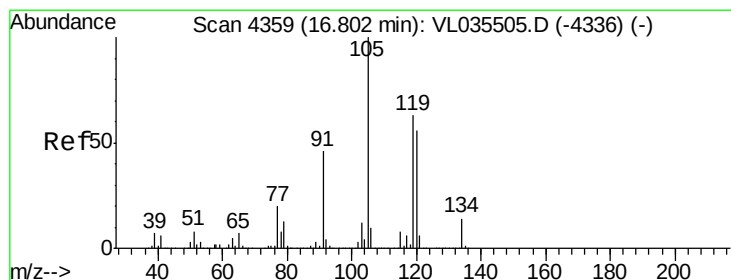
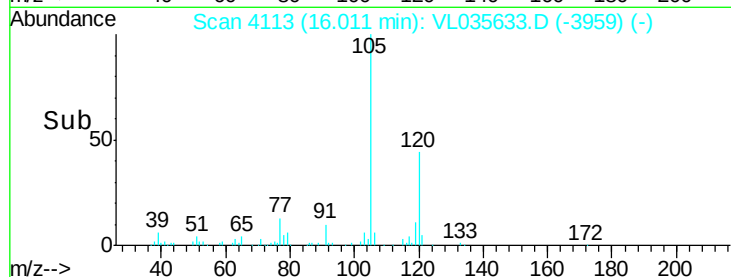
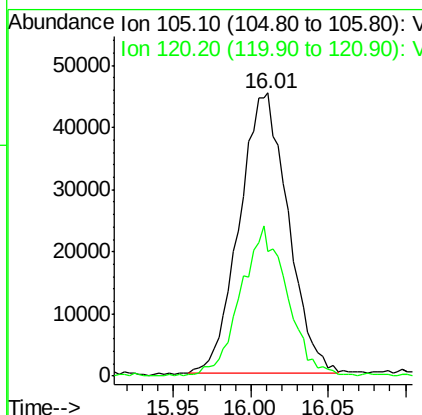
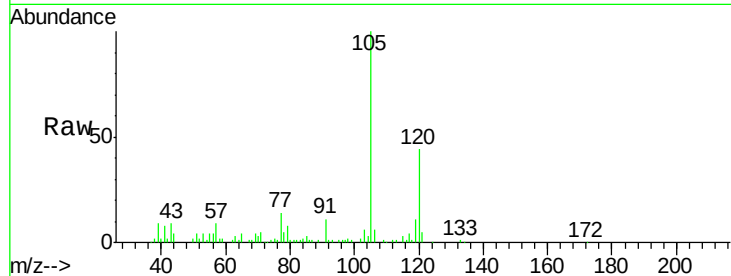
#73
 1,3,5-Trimethylbenzene
 Concen: 0.221 ppbv
 RT: 16.01 min Scan# 4113
 Delta R.T. -0.00 min
 Lab File: VL035633.D
 Acq: 16 Sep 2020 17:48

Instrument :
 MSVOA_L
 ClientSampleId :
 TRC-IA-02DUP

Tot Ion	Ratio	Lower	Upper
105	100		
120	43.9	44.2	66.2#

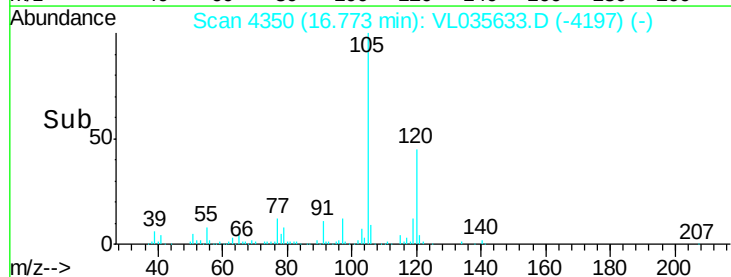
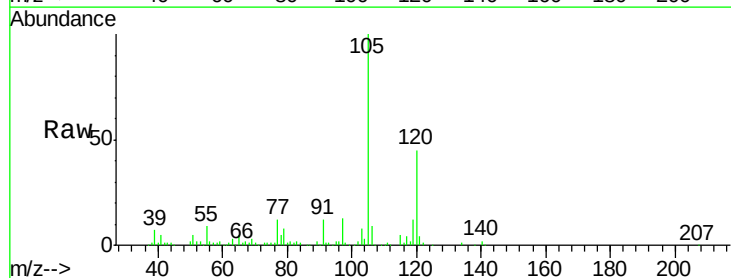
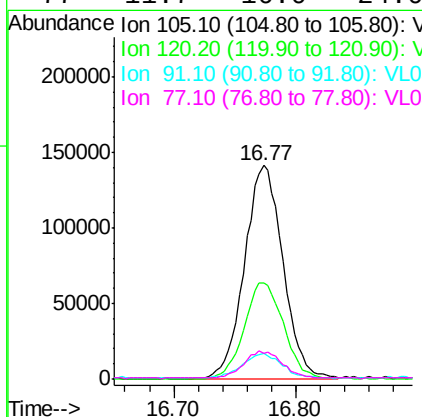
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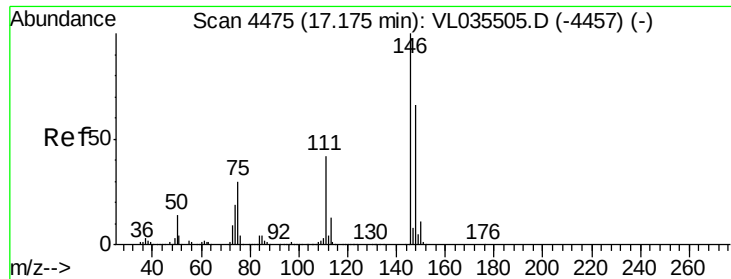
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#74
 1,2,4-Trimethylbenzene
 Concen: 0.625 ppbv
 RT: 16.77 min Scan# 4350
 Delta R.T. -0.01 min
 Lab File: VL035633.D
 Acq: 16 Sep 2020 17:48

Tgt Ion	Ratio	Lower	Upper
105	100		
120	45.0	44.4	66.6
91	11.3	37.1	55.7#
77	11.7	16.0	24.0#





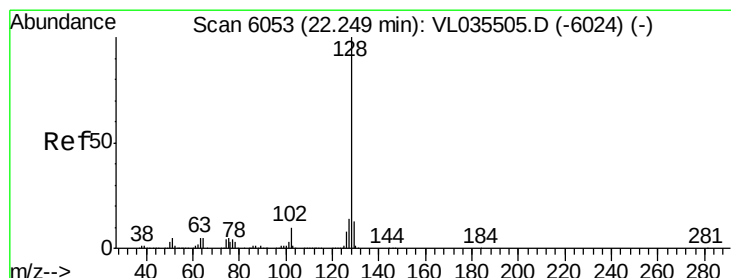
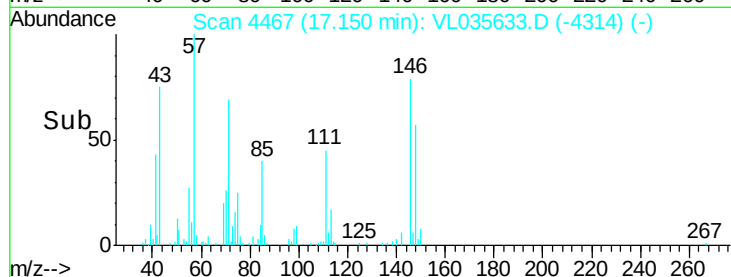
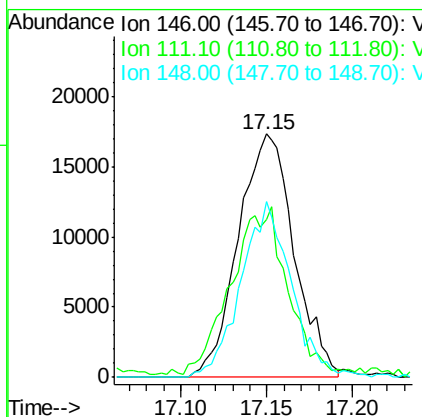
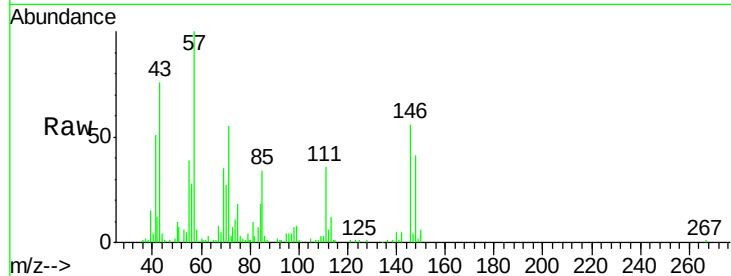
#76
 1,4-Dichlorobenzene
 Concen: 0.109 ppbv
 RT: 17.15 min Scan# 4467
 Delta R.T. -0.01 min
 Lab File: VL035633.D
 Acq: 16 Sep 2020 17:48

Instrument :
 MSVOA_L
 ClientSampleId :
 TRC-IA-02DUP

Tot Ion	Ratio	Lower	Upper
146	100		
111	72.8	20.0	60.0#
148	65.6	33.2	99.6

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#79
 Naphthalene
 Concen: 0.083 ppbv m
 RT: 22.22 min Scan# 6043
 Delta R.T. -0.01 min
 Lab File: VL035633.D
 Acq: 16 Sep 2020 17:48

Tgt Ion	Ratio	Lower	Upper
128	100		
127	12.4	11.4	17.2
129	13.1	10.5	15.7

