

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL121020\
 Data File : VL036147.D
 Acq On : 11 Dec 2020 3:28
 Operator : SY/AP
 Sample : L4948-13
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-2B

Manual Integrations
 APPROVED

MMDadoda
 12/15/2020 7:23:21 PM

Quant Time: Dec 14 22:28:49 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL120720AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Dec 0
 QLast Update : Mon Dec 07 16:56:49 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1228139	10.00	ppbv	-0.03
33) 1,4-Difluorobenzene	7.16	114	2518073	10.00	ppbv	-0.04
55) Chlorobenzene-d5	12.07	117	2179682	10.00	ppbv	-0.04

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.40	95	1948029	11.26	ppbv	-0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	112.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.97	51	75054m	0.536	ppbv	
4) Chloromethane	3.12	50	36185	0.526	ppbv #	80
9) Propene	2.99	41	54667	0.779	ppbv	96
10) Heptane	8.10	43	29658m	0.165	ppbv	
11) Trichlorofluoromethane	3.93	101	47799m	0.284	ppbv	
12) 1,1,2-Trichlorotrifluoroet	4.47	101	9061m	0.079	ppbv	
13) Ethanol	3.61	45	3534691	365.279	ppbv	85
15) Acetone	3.83	43	1302049	8.821	ppbv	100
19) Isopropyl Alcohol	3.98	45	164454	1.823	ppbv #	100
20) Methylene Chloride	4.33	84	3203818	52.968	ppbv	96
26) Hexane	5.67	57	1936882	14.595	ppbv #	37
29) Chloroform	5.74	83	28806m	0.165	ppbv	
34) 2-Butanone	5.23	43	263349m	1.577	ppbv	
35) Carbon Tetrachloride	7.00	117	10064m	0.069	ppbv	
36) Benzene	6.87	78	355042	1.664	ppbv	98
44) 2,2,4-Trimethylpentane	7.85	57	88162m	0.228	ppbv	
52) Tetrachloroethene	11.20	164	14906m	0.193	ppbv	
53) Toluene	9.79	91	302560	1.263	ppbv	99
58) Ethyl Benzene	12.69	91	59272m	0.198	ppbv	
59) m/p-Xylene	12.95	91	172447m	0.685	ppbv	
60) o-Xylene	13.68	91	63369m	0.267	ppbv	

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

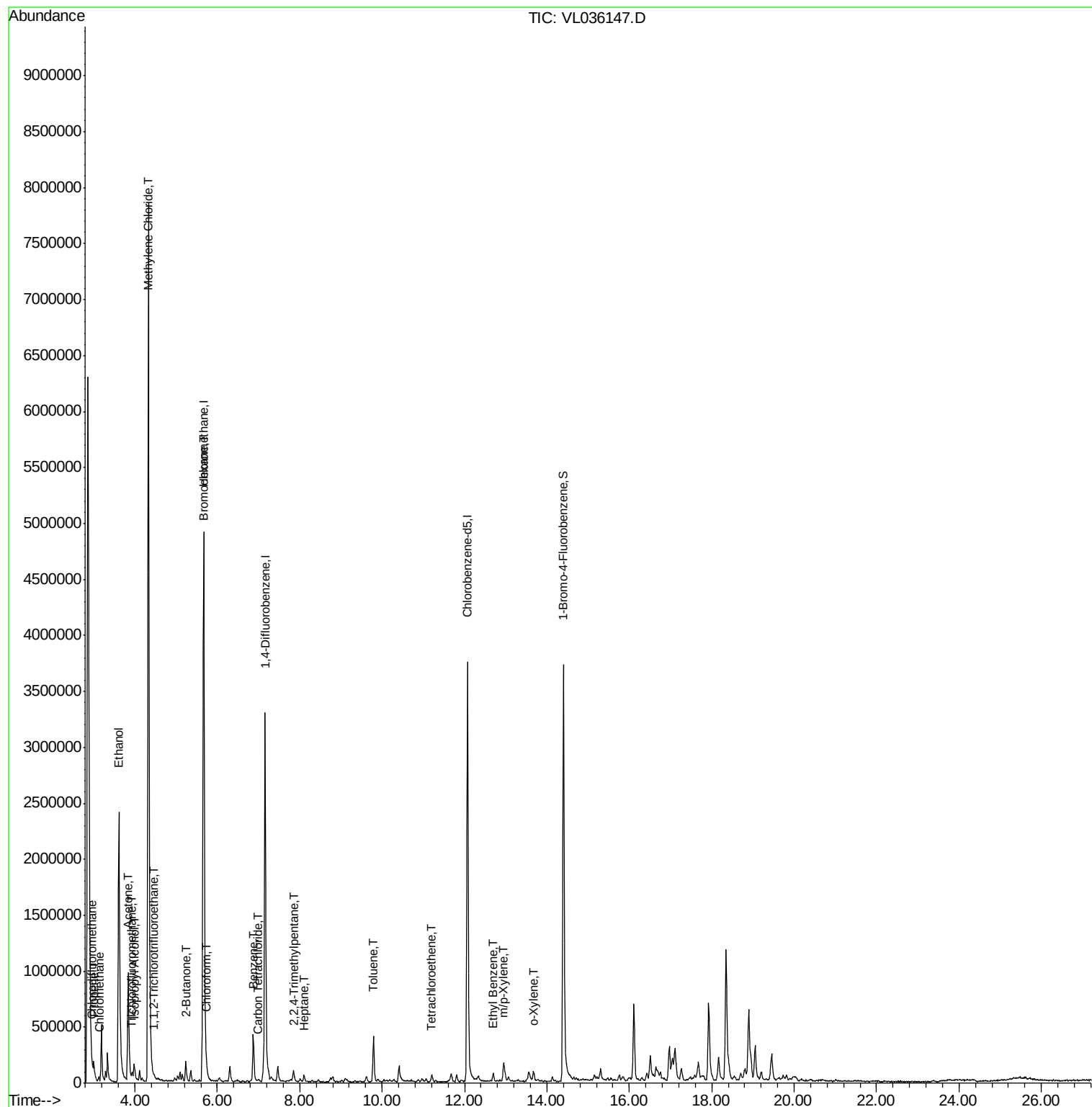
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL121020\
Data File : VL036147.D
Acq On : 11 Dec 2020 3:28
Operator : SY/AP
Sample : L4948-13
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

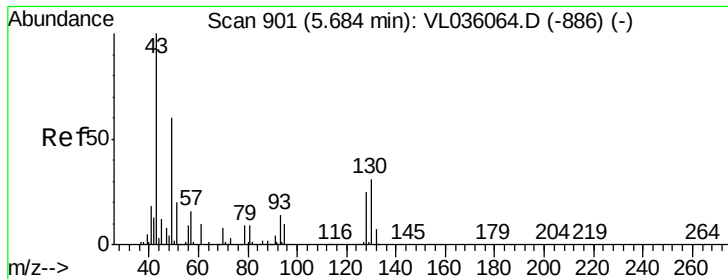
Instrument :
MSVOA_L
ClientSampleId :
SS-2B

Manual Integrations
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Quant Time: Dec 14 22:28:49 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL120720AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Dec
QLast Update : Mon Dec 07 16:56:49 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 891

Delta R.T. -0.03 min

Lab File: VL036147.D

Acq: 11 Dec 2020 3:28

Instrument :

MSVOA_L

ClientSampled :

SS-2B

Tot Ion: 49 Resp: 1228139

Ion Ratio Lower Upper

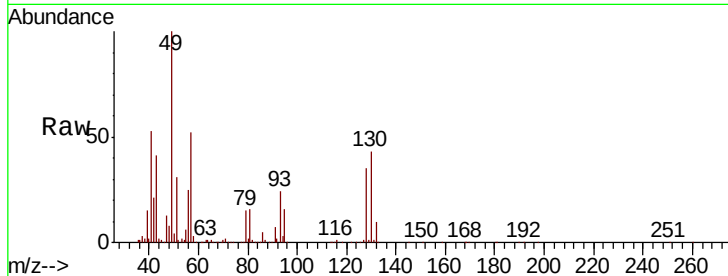
49 100

128 35.9 21.1 63.1

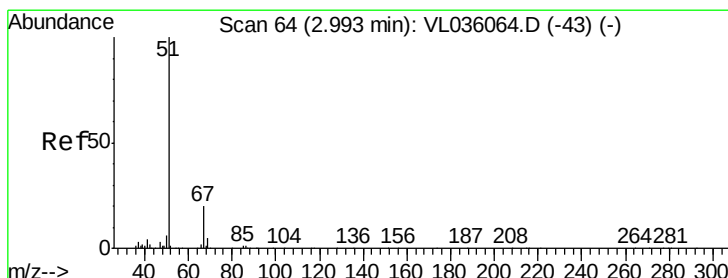
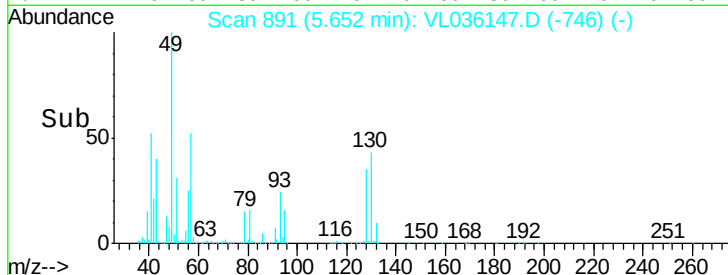
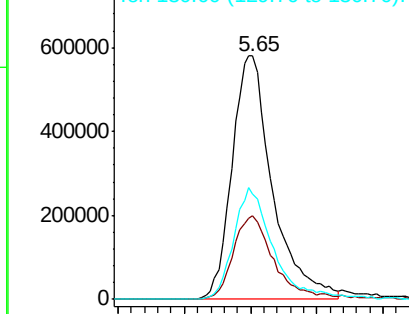
130 45.4 27.1 81.3

Manual Integrations
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Abundance Ion 49.10 (48.80 to 49.80): VL0
Ion 128.00 (127.70 to 128.70): V
Ion 130.00 (129.70 to 130.70): V



#3

Chlorodifluoromethane

Concen: 0.536 ppbv m

RT: 2.97 min Scan# 58

Delta R.T. -0.02 min

Lab File: VL036147.D

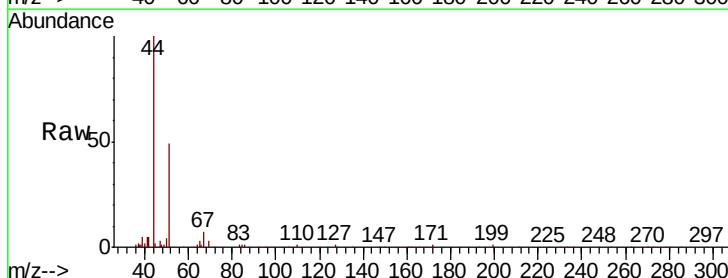
Acq: 11 Dec 2020 3:28

Tgt Ion: 51 Resp: 75054

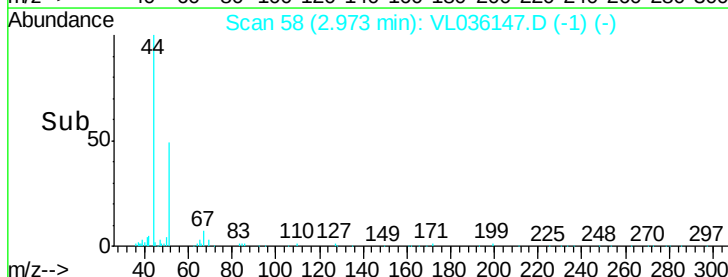
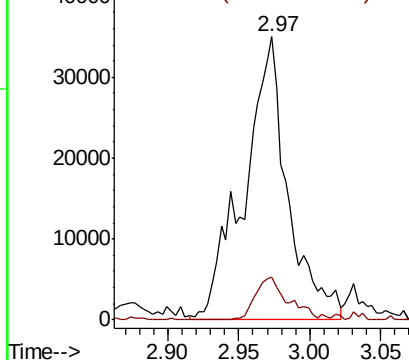
Ion Ratio Lower Upper

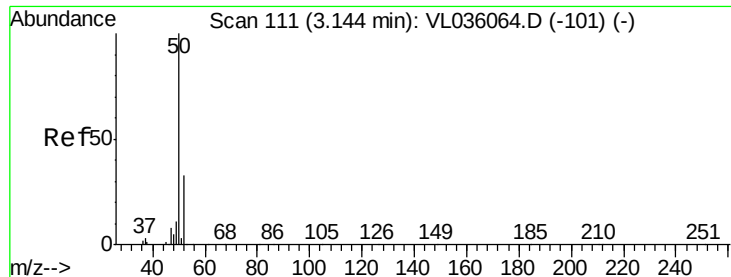
51 100

67 1.1 14.3 21.5#



Abundance Ion 51.00 (50.70 to 51.70): VL0
Ion 67.00 (66.70 to 67.70): VL0





#4

Chloromethane

Concen: 0.526 ppbv

RT: 3.12 min Scan# 104

Delta R.T. -0.02 min

Lab File: VL036147.D

Acq: 11 Dec 2020 3:28

Instrument :

MSVOA_L

ClientSampled :

SS-2B

Tot Ion: 50 Resp: 36185

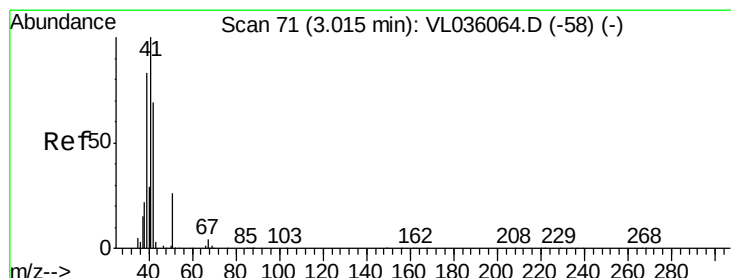
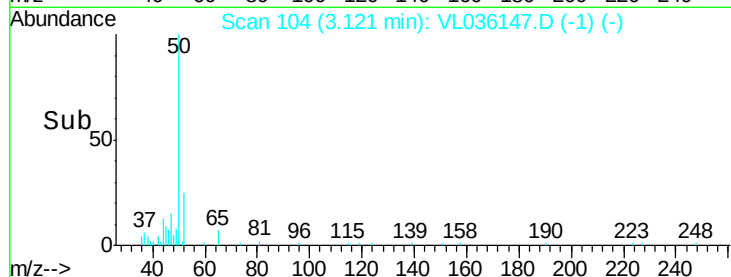
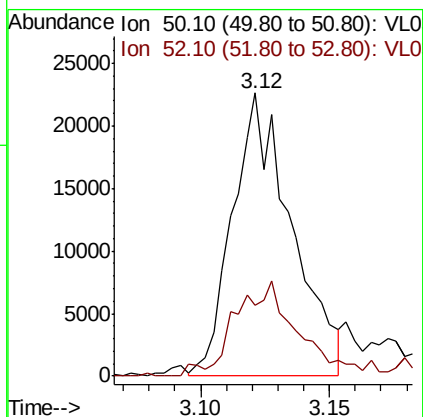
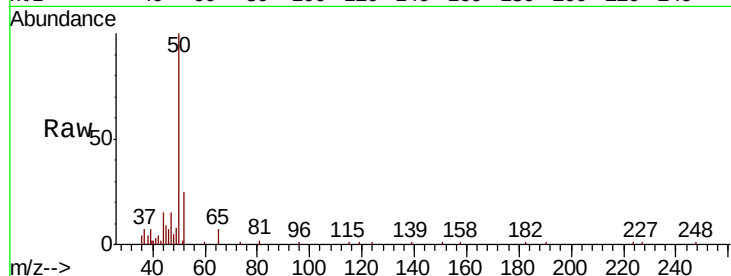
Ion Ratio Lower Upper

50 100

52 21.4 26.1 39.1#

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#9

Propene

Concen: 0.779 ppbv

RT: 2.99 min Scan# 64

Delta R.T. -0.02 min

Lab File: VL036147.D

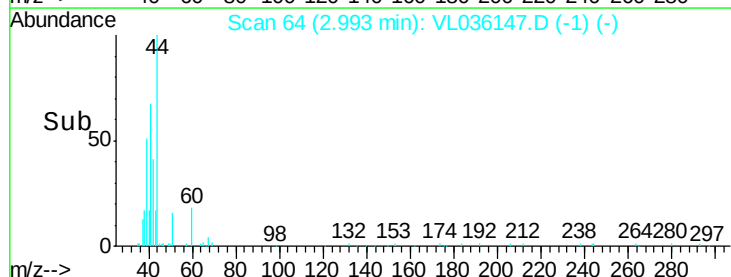
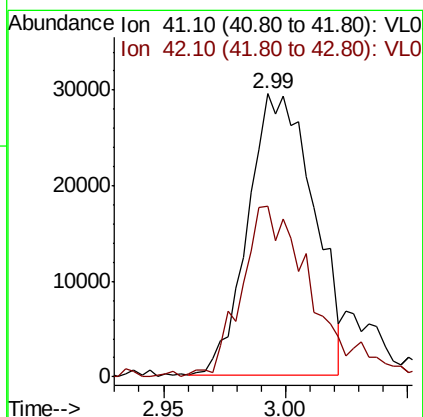
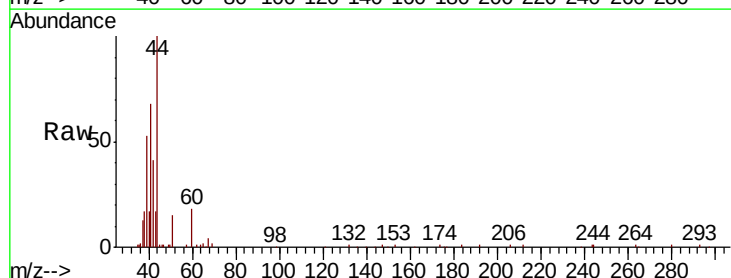
Acq: 11 Dec 2020 3:28

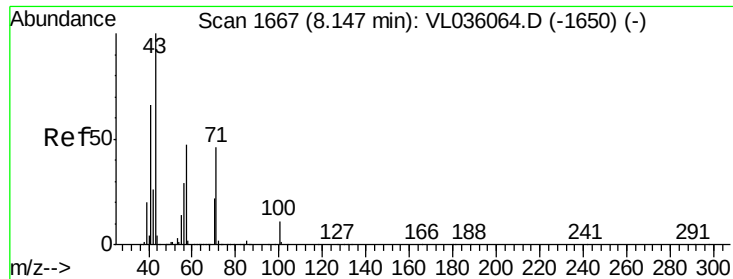
Tgt Ion: 41 Resp: 54667

Ion Ratio Lower Upper

41 100

42 67.7 57.0 85.6





#10

Heptane

Concen: 0.165 ppbv m

RT: 8.10 min Scan# 1654

Delta R.T. -0.04 min

Lab File: VL036147.D

Acq: 11 Dec 2020 3:28

Instrument :

MSVOA_L

ClientSampled :

SS-2B

Tot Ion: 43 Resp: 29658

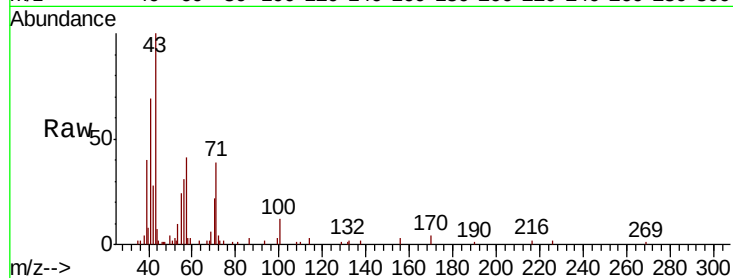
Ion Ratio Lower Upper

43 100

57 48.3 37.9 56.9

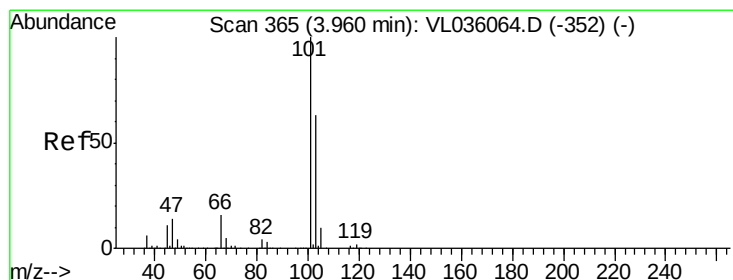
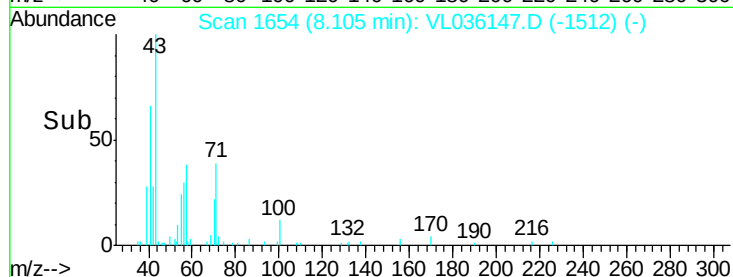
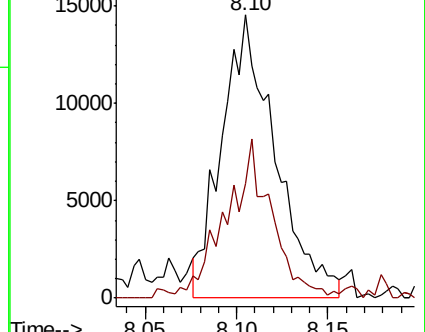
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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#11

Trichlorofluoromethane

Concen: 0.284 ppbv m

RT: 3.93 min Scan# 357

Delta R.T. -0.03 min

Lab File: VL036147.D

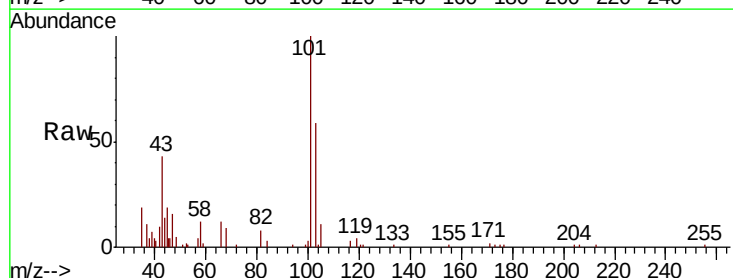
Acq: 11 Dec 2020 3:28

Tgt Ion: 101 Resp: 47799

Ion Ratio Lower Upper

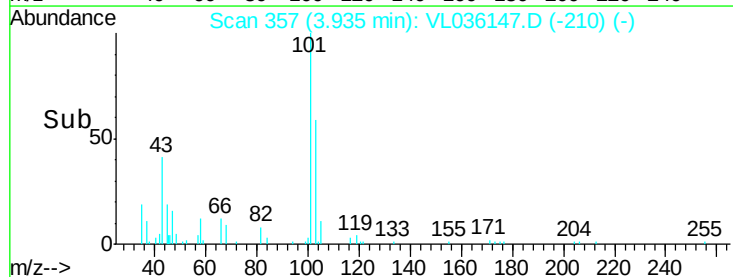
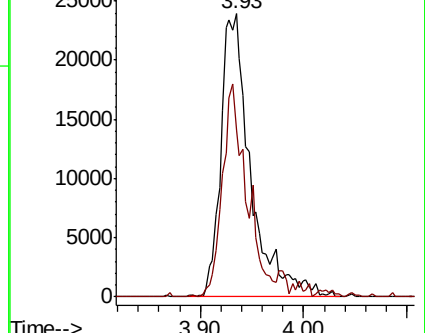
101 100

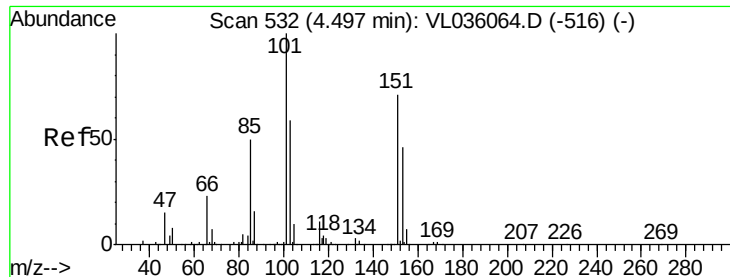
103 59.0 50.3 75.5



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.079 ppbv m

RT: 4.47 min Scan# 524

Delta R.T. -0.03 min

Lab File: VL036147.D

Acq: 11 Dec 2020 3:28

Instrument :

MSVOA_L

ClientSampleId :

SS-2B

Tot Ion:101 Resp: 9061

Ion Ratio Lower Upper

101 100

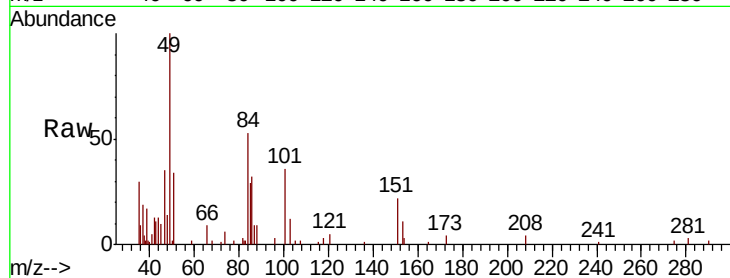
151 54.8 59.3 88.9#

Manual Integrations

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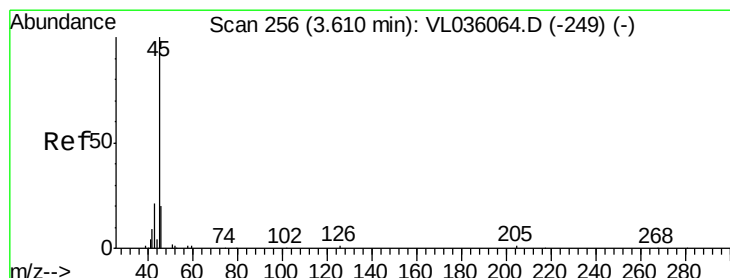
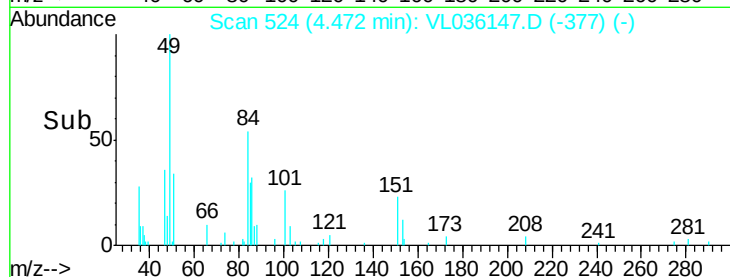
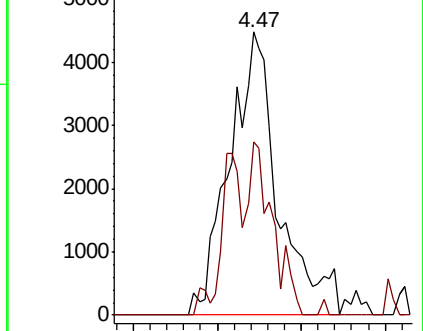
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Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V



#13

Ethanol

Concen: 365.279 ppbv

RT: 3.61 min Scan# 256

Delta R.T. -0.00 min

Lab File: VL036147.D

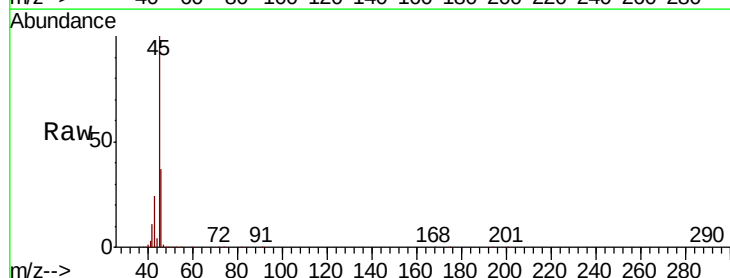
Acq: 11 Dec 2020 3:28

Tgt Ion: 45 Resp: 3534691

Ion Ratio Lower Upper

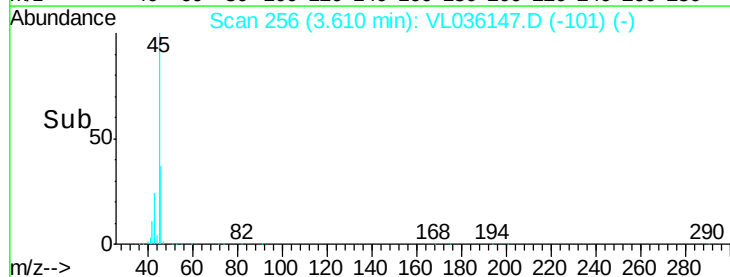
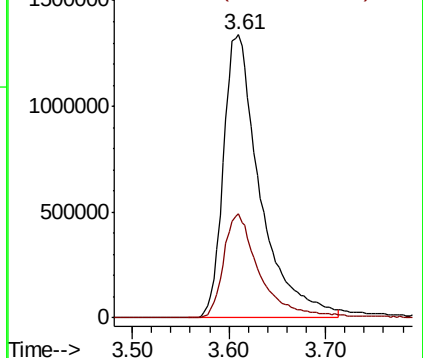
45 100

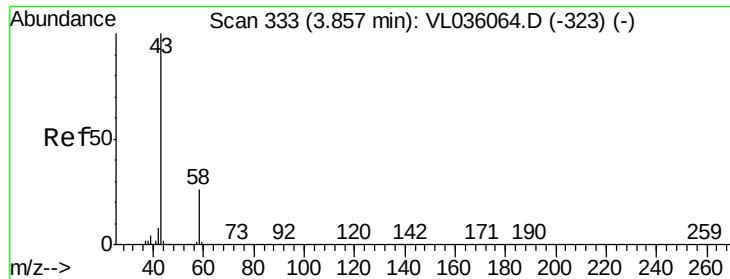
46 37.0 19.0 75.8



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





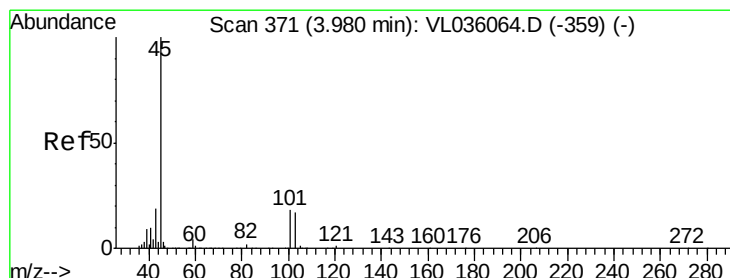
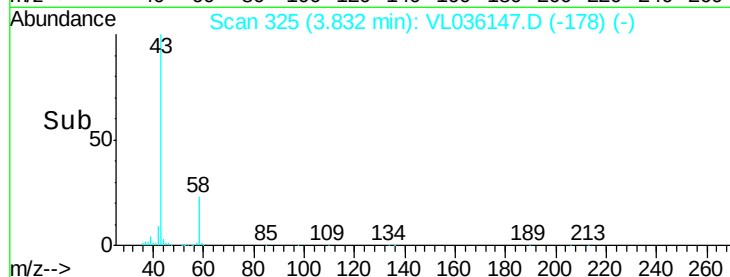
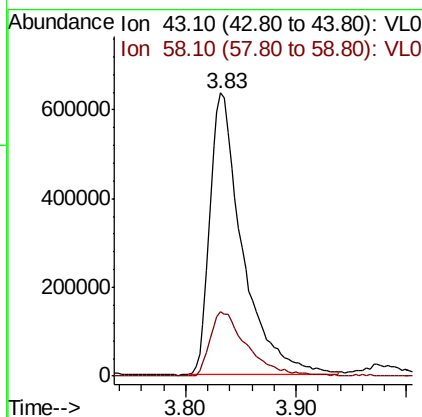
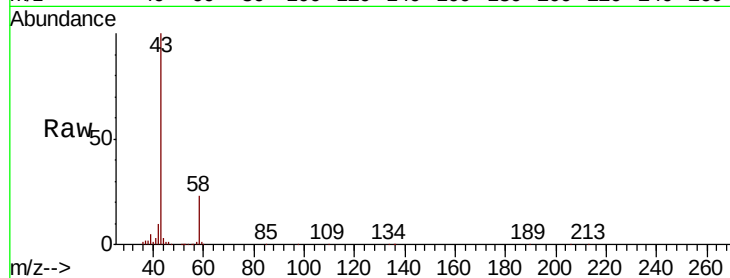
#15
Acetone
Concen: 8.821 ppbv
RT: 3.83 min Scan# 325
Delta R.T. -0.03 min
Lab File: VL036147.D
Acq: 11 Dec 2020 3:28

Instrument :
MSVOA_L
ClientSampleId :
SS-2B

Tot Ion: 43 Resp: 1302049
Ion Ratio Lower Upper
43 100
58 26.2 20.9 31.3

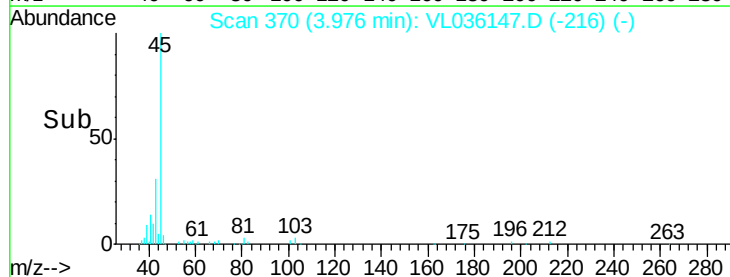
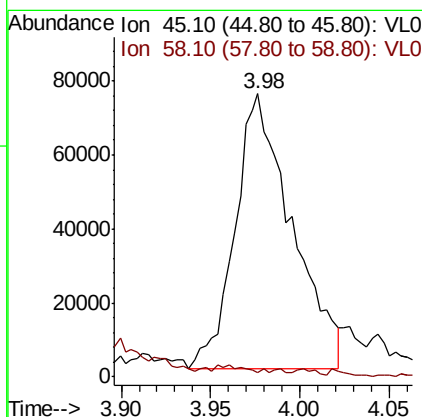
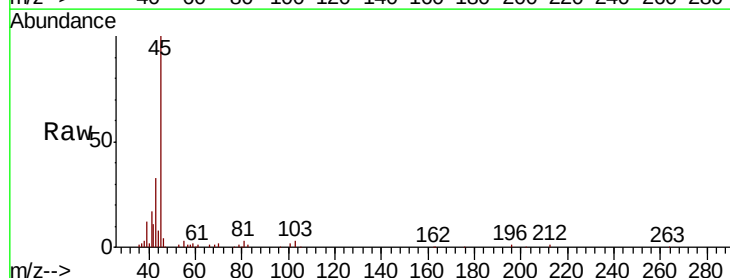
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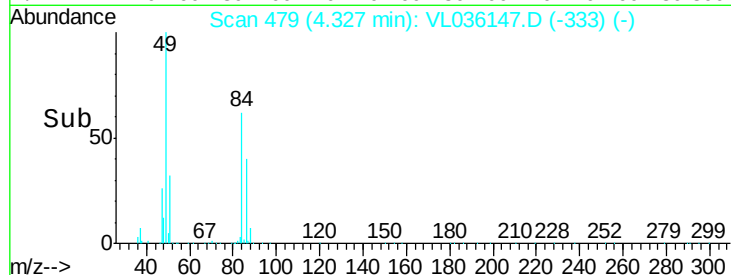
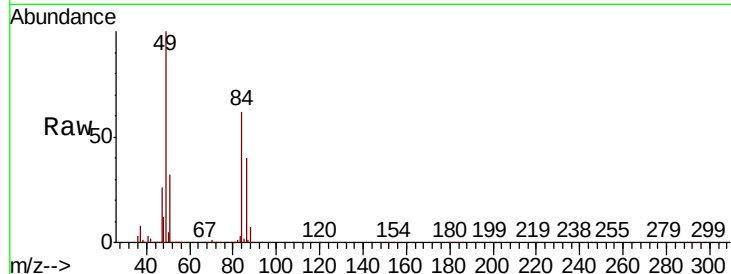
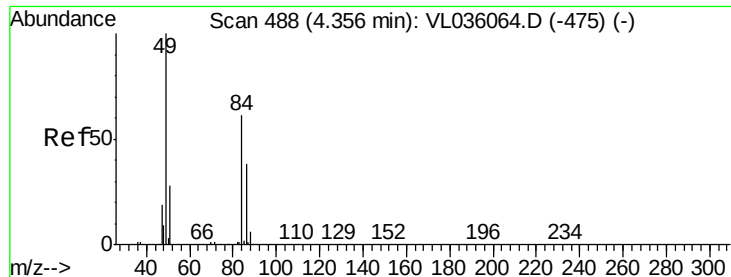
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#19
Isopropyl Alcohol
Concen: 1.823 ppbv
RT: 3.98 min Scan# 370
Delta R.T. -0.00 min
Lab File: VL036147.D
Acq: 11 Dec 2020 3:28

Tgt Ion: 45 Resp: 164454
Ion Ratio Lower Upper
45 100
58 207.6 0.0 0.0#





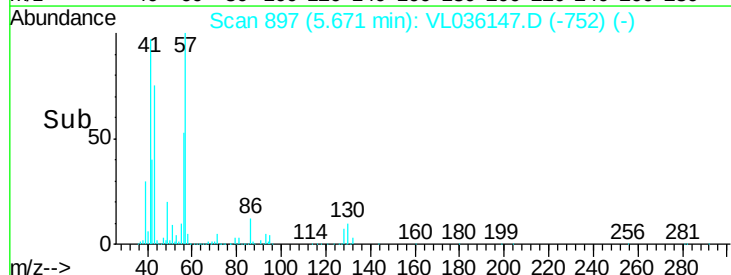
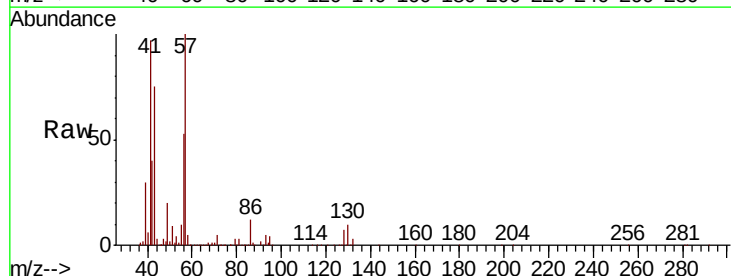
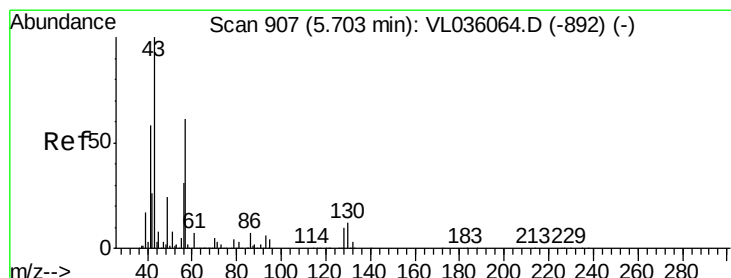
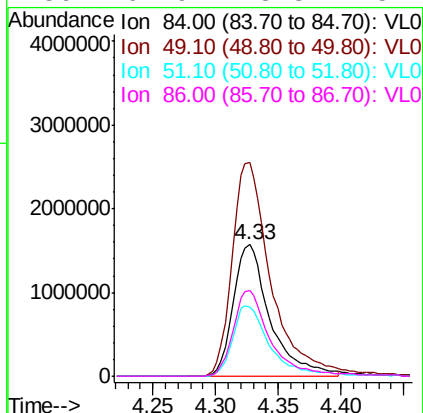
#20
Methvlene Chloride
Concen: 52.968 ppbv
RT: 4.33 min Scan# 479
Delta R.T. -0.03 min
Lab File: VL036147.D
Acq: 11 Dec 2020 3:28

Tot Ion	Ratio	Lower	Upper
84	100		
49	162.2	133.0	199.4
51	52.4	38.9	58.3
86	64.9	48.8	73.2

Instrument :
MSVOA_L
ClientSampleId :
SS-2B

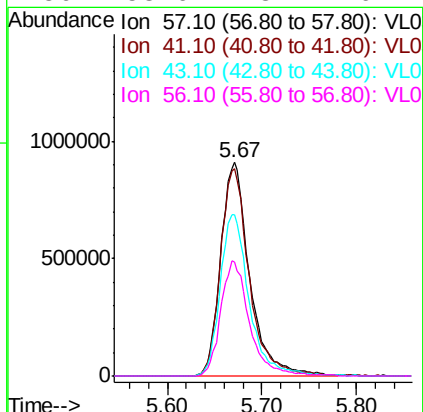
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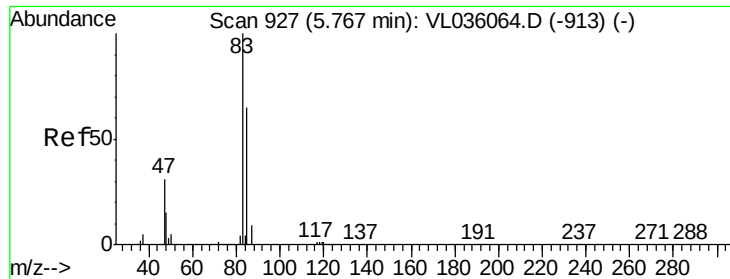
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#26
Hexane
Concen: 14.595 ppbv
RT: 5.67 min Scan# 897
Delta R.T. -0.03 min
Lab File: VL036147.D
Acq: 11 Dec 2020 3:28

Tgt Ion	Ratio	Lower	Upper
57	100		
41	97.5	82.9	124.3
43	76.1	199.9	299.9#
56	53.6	43.1	64.7





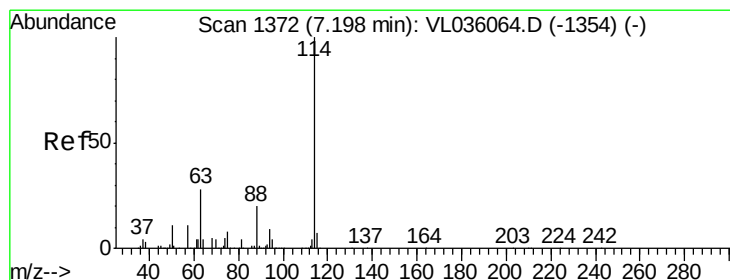
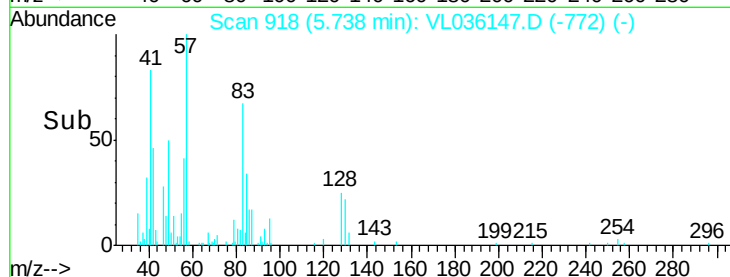
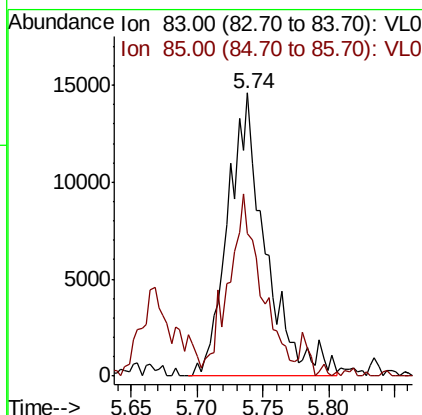
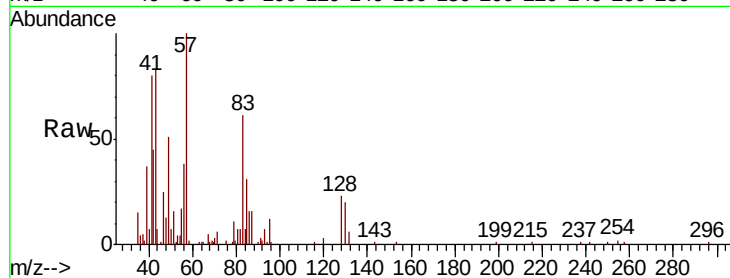
#29
Chloroform
Concen: 0.165 ppbv m
RT: 5.74 min Scan# 918
Delta R.T. -0.03 min
Lab File: VL036147.D
Acq: 11 Dec 2020 3:28

Instrument :
MSVOA_L
ClientSampled :
SS-2B

Tot Ion: 83 Resp: 28806
Ion Ratio Lower Upper
83 100
85 50.4 51.8 77.6#

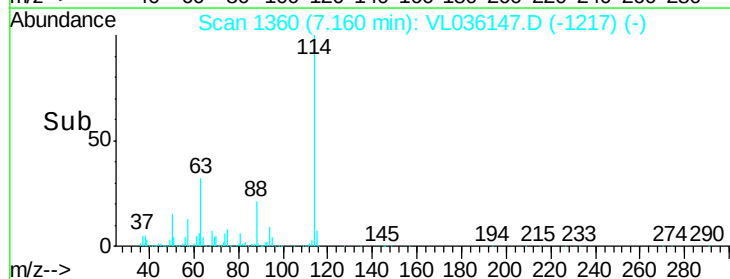
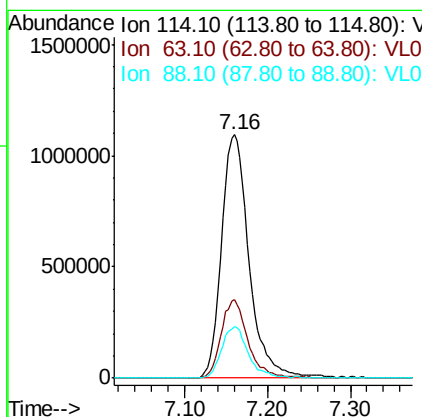
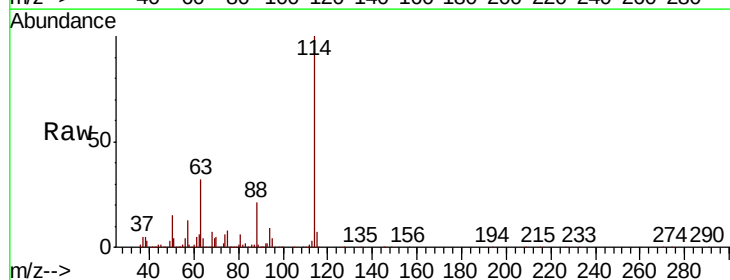
Manual Integrations
APPROVED

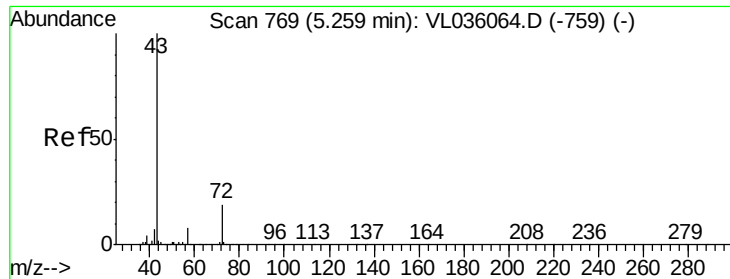
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.16 min Scan# 1360
Delta R.T. -0.04 min
Lab File: VL036147.D
Acq: 11 Dec 2020 3:28

Tgt Ion: 114 Resp: 2518073
Ion Ratio Lower Upper
114 100
63 31.6 23.6 35.4
88 20.9 15.8 23.6





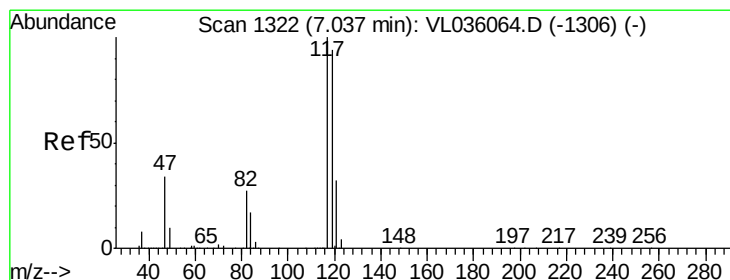
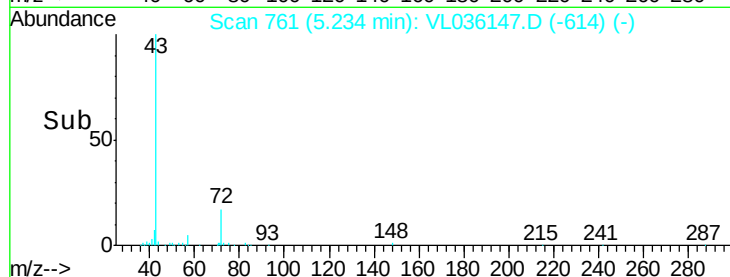
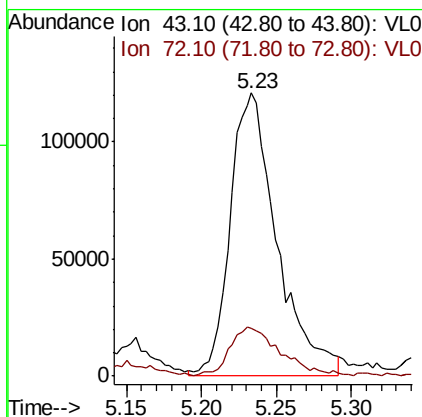
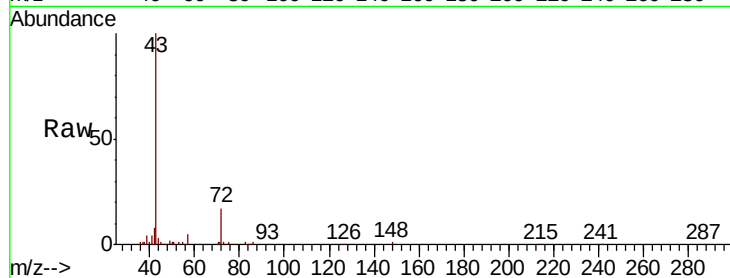
#34
2-Butanone
Concen: 1.577 ppbv m
RT: 5.23 min Scan# 761
Delta R.T. -0.03 min
Lab File: VL036147.D
Acq: 11 Dec 2020 3:28

Instrument :
MSVOA_L
ClientSampleId :
SS-2B

Tot Ion	Ratio	Lower	Upper
43	100		
72	19.5	16.5	24.7

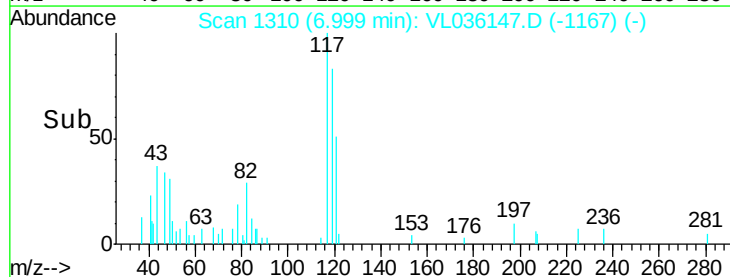
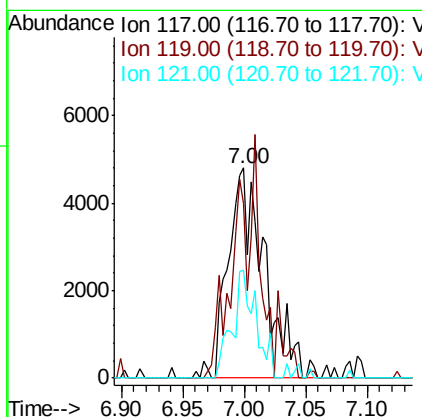
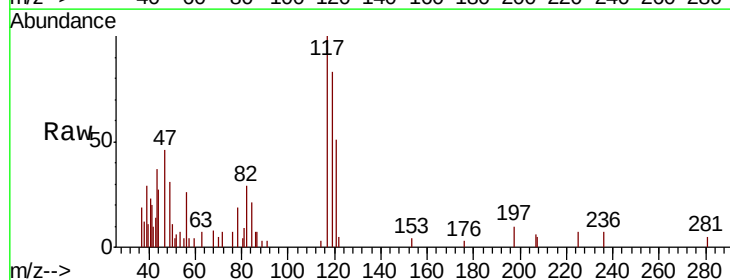
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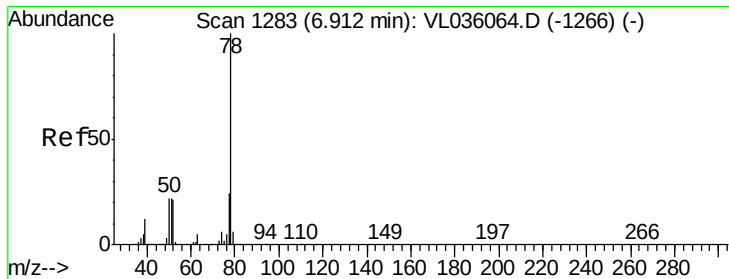
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#35
Carbon Tetrachloride
Concen: 0.069 ppbv m
RT: 7.00 min Scan# 1310
Delta R.T. -0.04 min
Lab File: VL036147.D
Acq: 11 Dec 2020 3:28

Tgt Ion	Ratio	Lower	Upper
117	100		
119	82.9	75.1	112.7
121	51.1	25.6	38.4#





#36

Benzene

Concen: 1.664 ppbv

RT: 6.87 min Scan# 1270

Delta R.T. -0.04 min

Lab File: VL036147.D

Acq: 11 Dec 2020 3:28

Instrument :

MSVOA_L

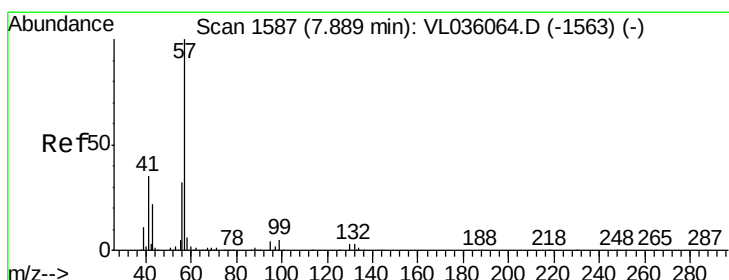
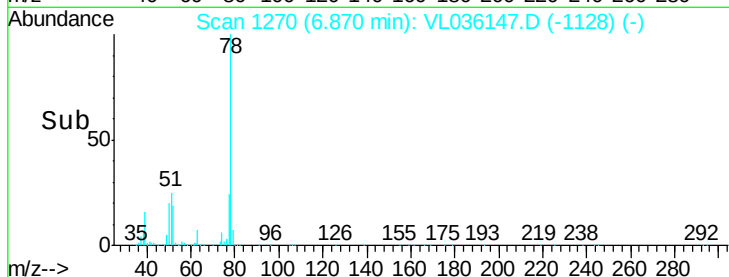
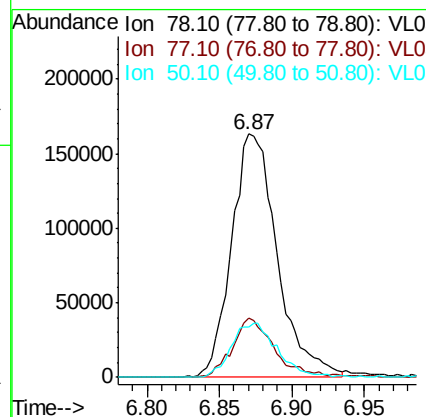
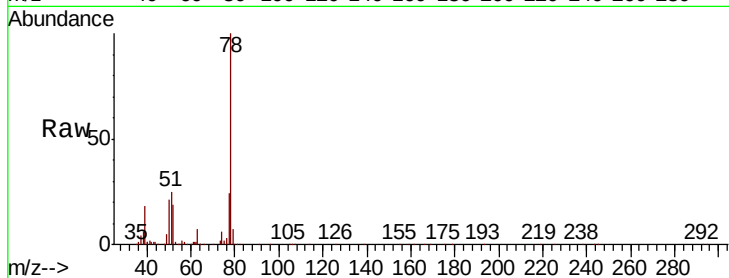
ClientSampleId :

SS-2B

Tot Ion:	78	Resp:	355042
Ion	Ratio	Lower	Upper
78	100		
77	24.0	19.4	29.2
50	20.2	17.8	26.8

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#44

2,2,4-Trimethylpentane

Concen: 0.228 ppbv m

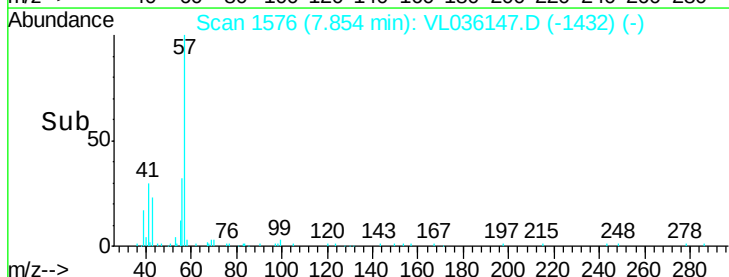
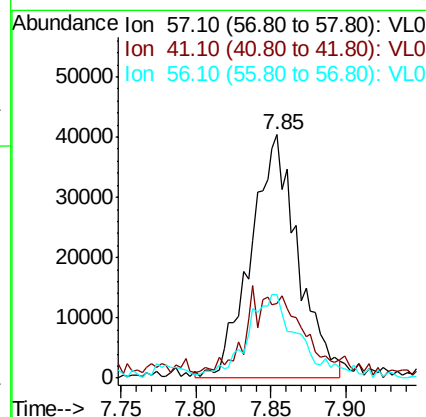
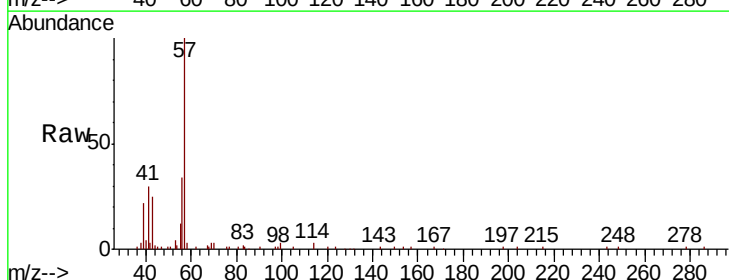
RT: 7.85 min Scan# 1576

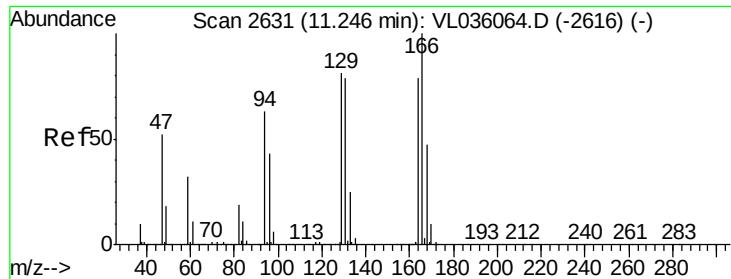
Delta R.T. -0.04 min

Lab File: VL036147.D

Acq: 11 Dec 2020 3:28

Tgt Ion:	57	Resp:	88162
Ion	Ratio	Lower	Upper
57	100		
41	42.1	28.9	43.3
56	38.4	25.3	37.9#





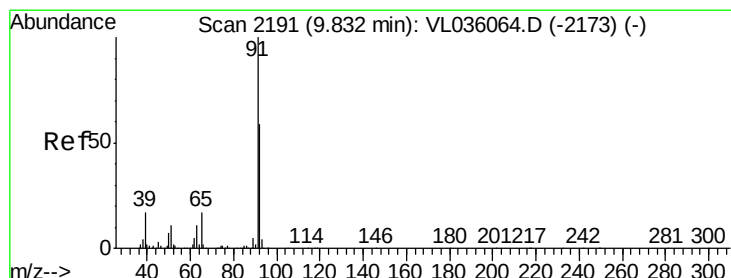
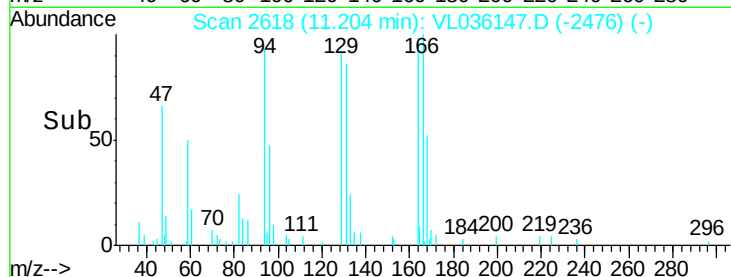
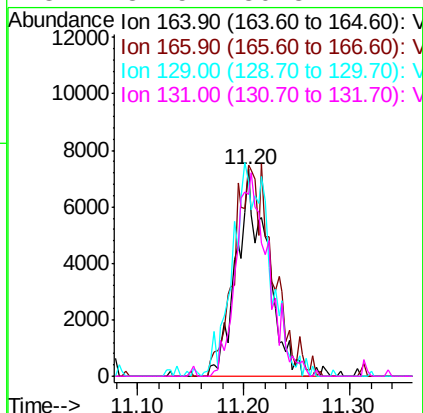
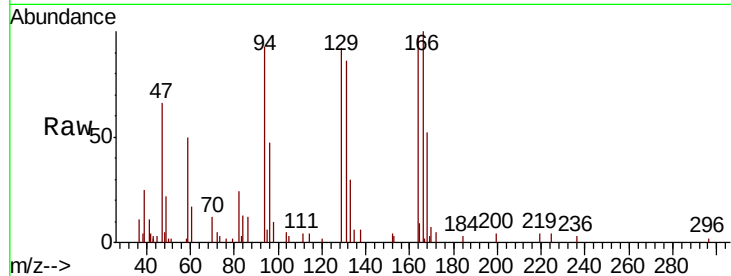
#52
Tetrachloroethene
Concen: 0.193 ppbv m
RT: 11.20 min Scan# 2618
Delta R.T. -0.04 min
Lab File: VL036147.D
Acq: 11 Dec 2020 3:28

Instrument :
MSVOA_L
ClientSampleId :
SS-2B

Tot Ion	Ratio	Lower	Upper
164	100		
166	101.9	101.9	152.9
129	93.7	82.1	123.1
131	87.5	80.8	121.2

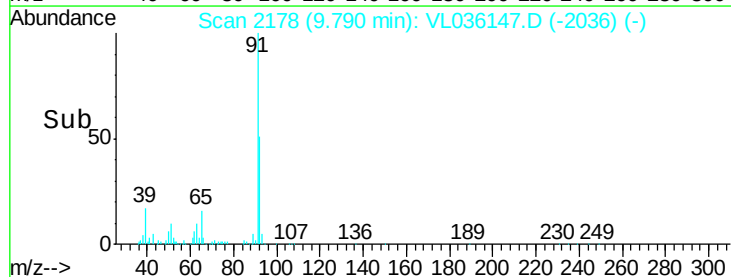
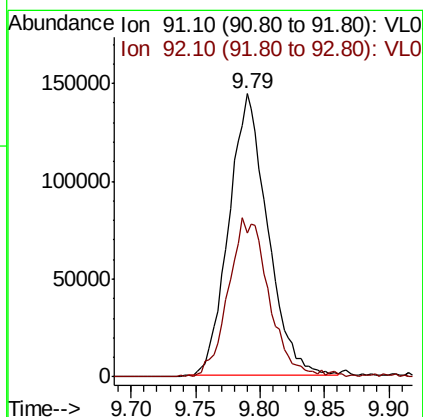
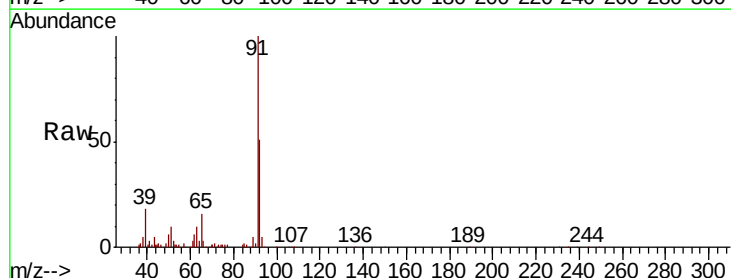
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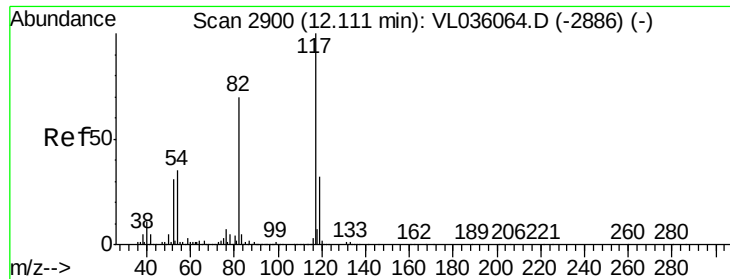
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#53
Toluene
Concen: 1.263 ppbv
RT: 9.79 min Scan# 2178
Delta R.T. -0.04 min
Lab File: VL036147.D
Acq: 11 Dec 2020 3:28

Tgt Ion	Ratio	Lower	Upper
91	100		
92	59.1	48.2	72.2





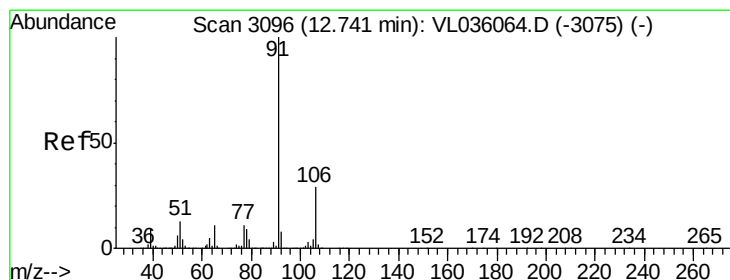
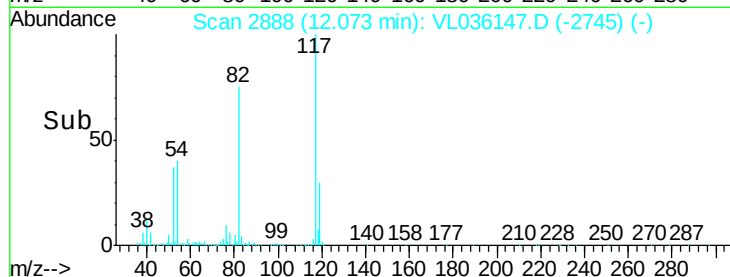
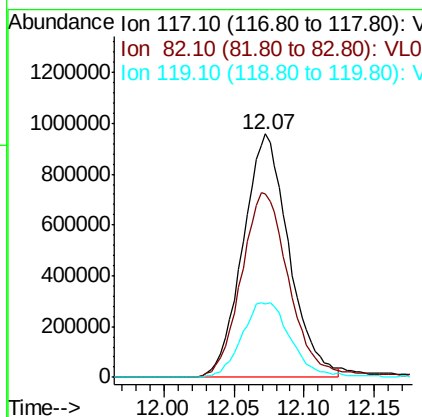
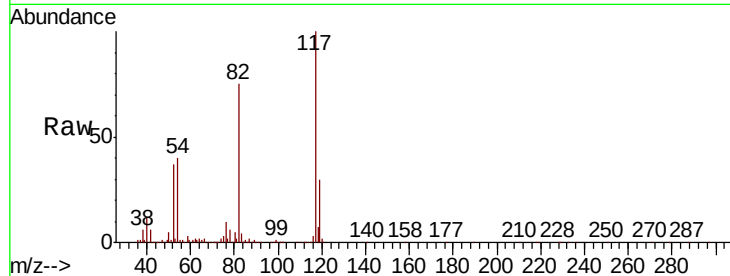
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.07 min Scan# 2888
Delta R.T. -0.04 min
Lab File: VL036147.D
Acq: 11 Dec 2020 3:28

Instrument :
MSVOA_L
ClientSampled :
SS-2B

Tot Ion	Ratio	Lower	Upper
117	100		
82	80.9	0.0	0.0#
119	33.6	0.0	0.0#

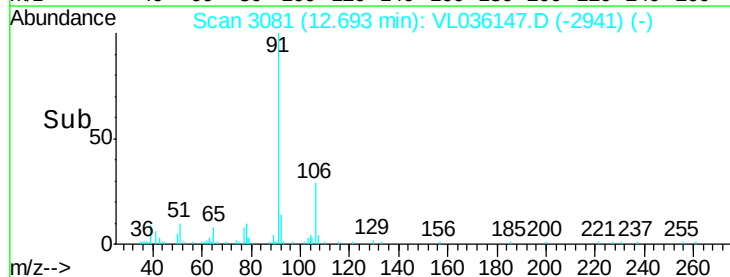
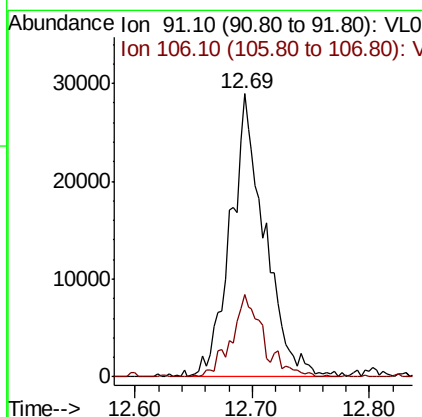
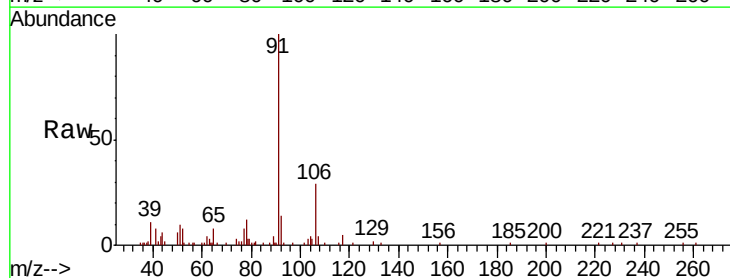
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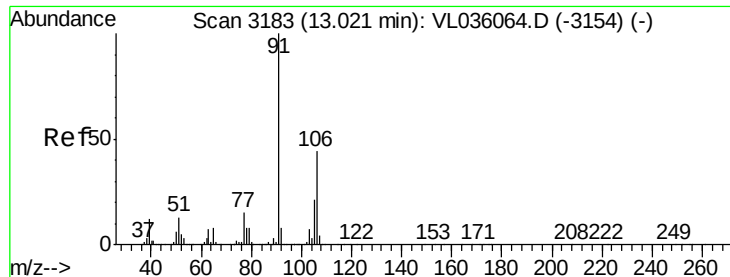
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#58
Ethyl Benzene
Concen: 0.198 ppbv m
RT: 12.69 min Scan# 3081
Delta R.T. -0.05 min
Lab File: VL036147.D
Acq: 11 Dec 2020 3:28

Tgt Ion	Ratio	Lower	Upper
91	100		
106	29.2	23.0	34.4





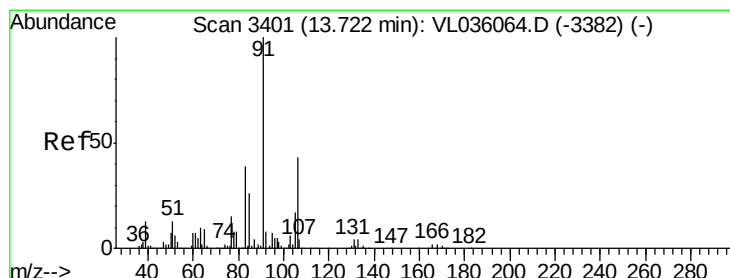
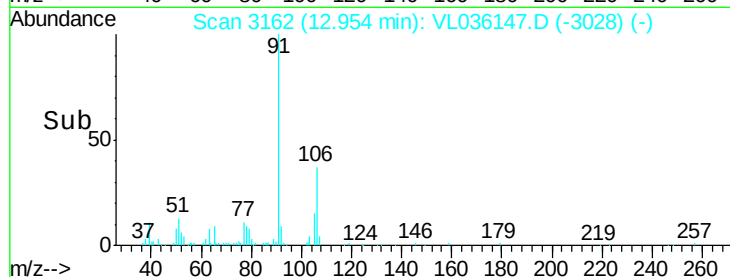
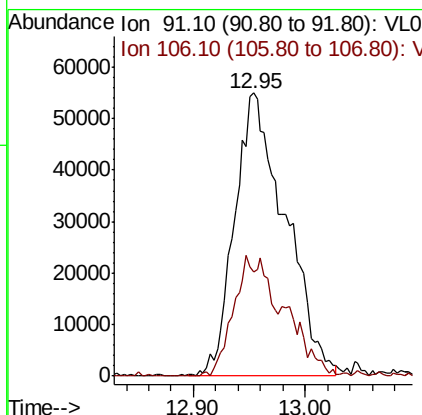
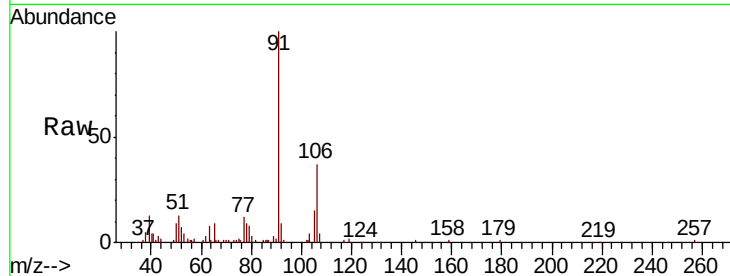
#59
m/p-Xylene
Concen: 0.685 ppbv m
RT: 12.95 min Scan# 3162
Delta R.T. -0.07 min
Lab File: VL036147.D
Acq: 11 Dec 2020 3:28

Instrument :
MSVOA_L
ClientSampleId :
SS-2B

Tot Ion: 91 Resp: 172447
Ion Ratio Lower Upper
91 100
106 0.0 33.6 50.4#

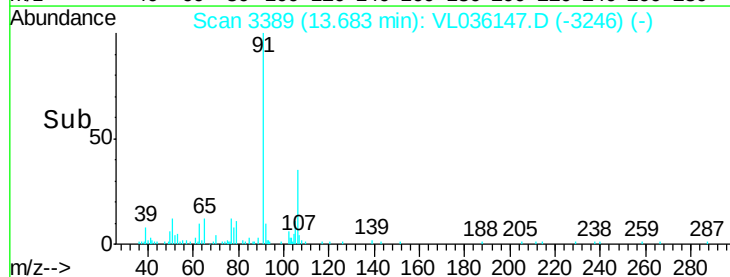
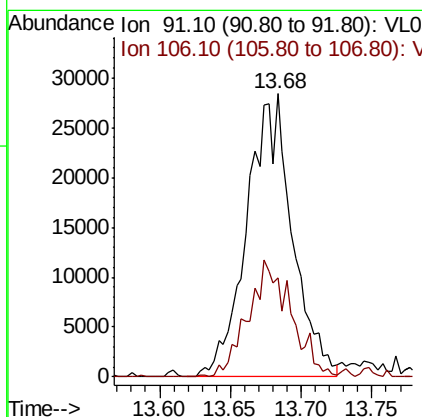
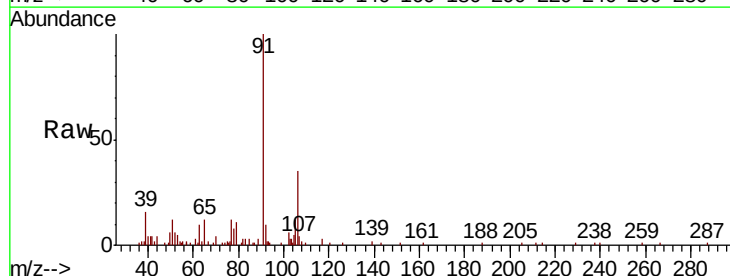
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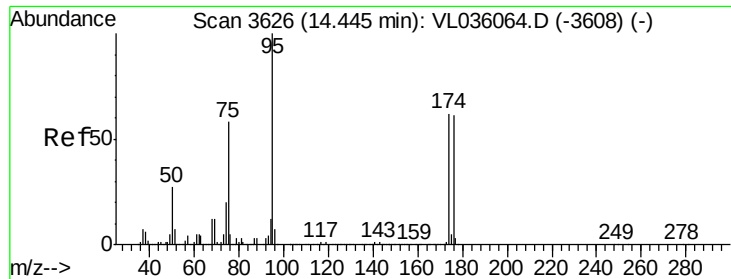
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#60
o-Xylene
Concen: 0.267 ppbv m
RT: 13.68 min Scan# 3389
Delta R.T. -0.04 min
Lab File: VL036147.D
Acq: 11 Dec 2020 3:28

Tgt Ion: 91 Resp: 63369
Ion Ratio Lower Upper
91 100
106 39.5 21.6 64.6





#68
 1-Bromo-4-Fluorobenzene
 Concen: 11.255 ppbv
 RT: 14.40 min Scan# 3613
 Delta R.T. -0.04 min
 Lab File: VL036147.D
 Acq: 11 Dec 2020 3:28

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-2B

Tot Ion: 95 Resp: 1948029
 Ion Ratio Lower Upper
 95 100
 174 54.9 50.7 76.1
 175 4.0 4.0 6.0#

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