

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL011619\
 Data File : VL033095.D
 Acq On : 16 Jan 2019 17:01
 Operator : SY/AP
 Sample : K1130-02
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1A

Manual Integrations
 APPROVED

MMDadoda
 1/17/2019 3:16:27 PM

Quant Time: Jan 17 03:12:58 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL010419AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jan 0
 QLast Update : Fri Jan 04 16:09:05 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	1007447	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2363571	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2158707	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.58	95	1713413	10.35	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.07	85	53241	0.284	ppbv	95
3) Chlorodifluoromethane	3.01	51	31179m	0.273	ppbv	
4) Chloromethane	3.17	50	34774	0.532	ppbv	95
9) Propene	3.05	41	23398m	0.549	ppbv	
11) Trichlorofluoromethane	4.00	101	44428	0.214	ppbv	87
13) Ethanol	3.66	45	72070m	4.242	ppbv	
15) Acetone	3.91	43	118074m	0.847	ppbv	
20) Methylene Chloride	4.41	84	59333	1.021	ppbv	96
26) Hexane	5.78	57	46971	0.423	ppbv #	44
35) Carbon Tetrachloride	7.13	117	13599m	0.067	ppbv	
36) Benzene	7.00	78	28665m	0.148	ppbv	
53) Toluene	9.94	91	27054m	0.130	ppbv	

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

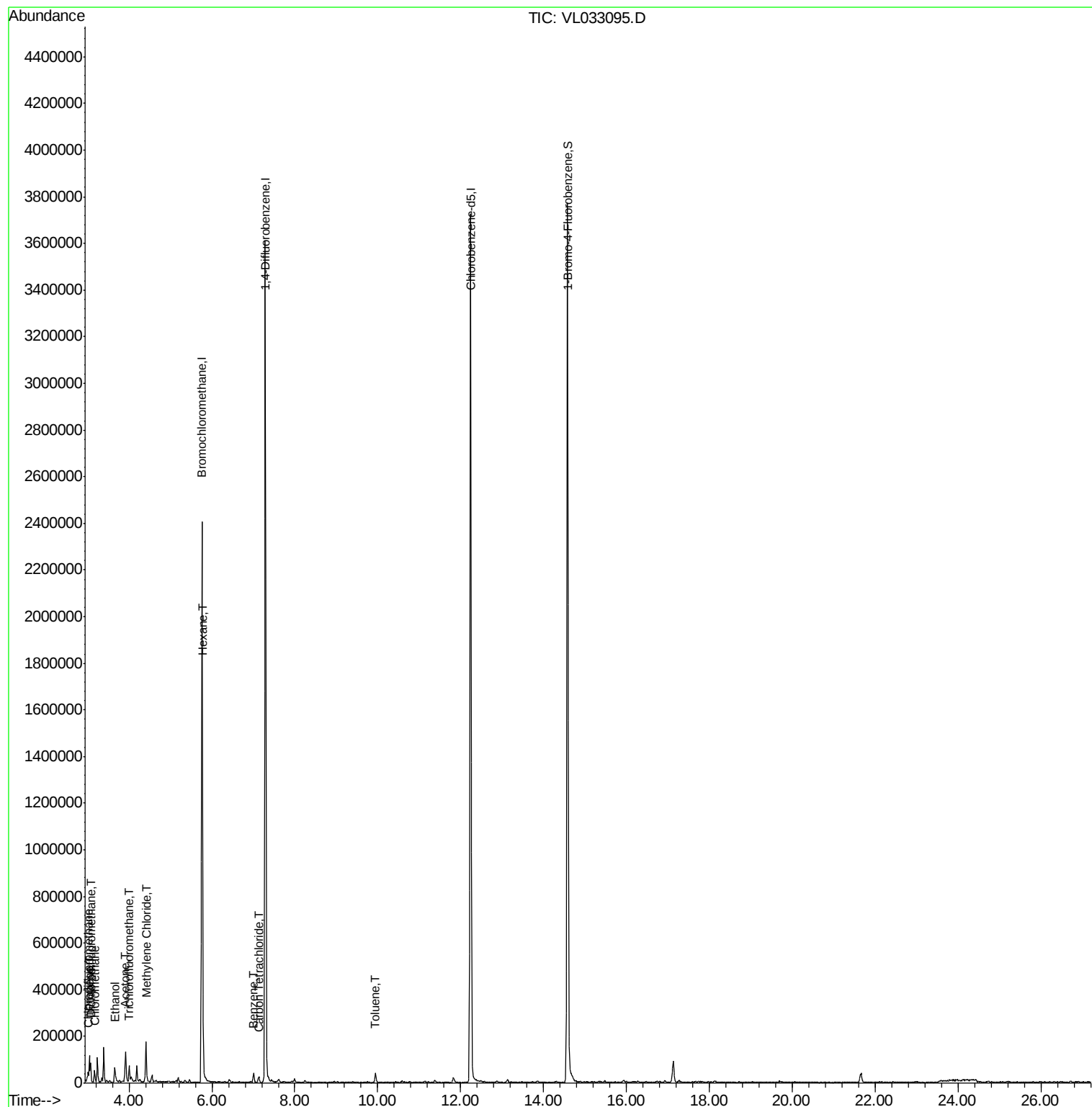
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL011619\
Data File : VL033095.D
Acq On : 16 Jan 2019 17:01
Operator : SY/AP
Sample : K1130-02
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

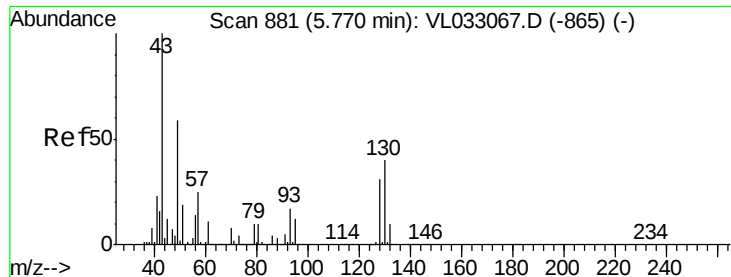
Instrument :
MSVOA_L
ClientSampleId :
QA1A

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Quant Time: Jan 17 03:12:58 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL010419AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jan
QLast Update : Fri Jan 04 16:09:05 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 877

Delta R.T. -0.01 min

Lab File: VL033095.D

Acq: 16 Jan 2019 17:01

Instrument :

MSVOA_L

ClientSampled :

QA1A

Tot Ion: 49 Resp: 1007447

Ion Ratio Lower Upper

49 100

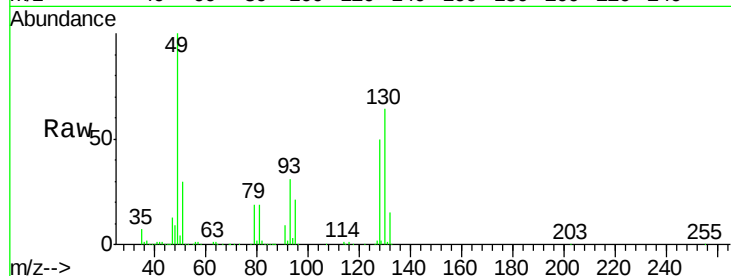
128 52.1 26.2 78.5

130 66.2 33.6 100.6

Manual Integrations
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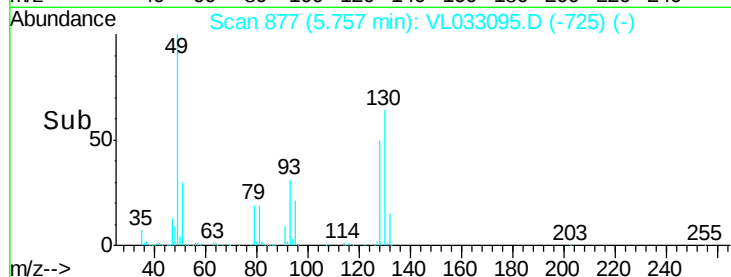
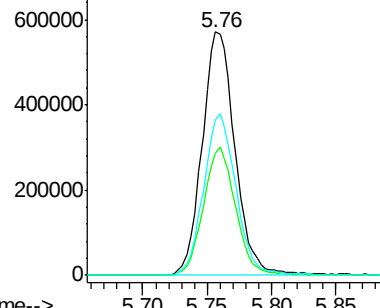
1/17/2019 3:16:27 PM



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.284 ppbv

RT: 3.07 min Scan# 43

Delta R.T. -0.00 min

Lab File: VL033095.D

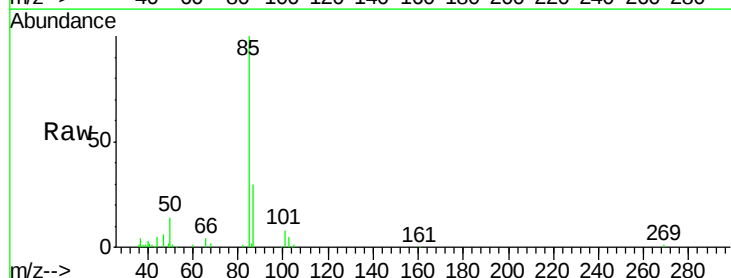
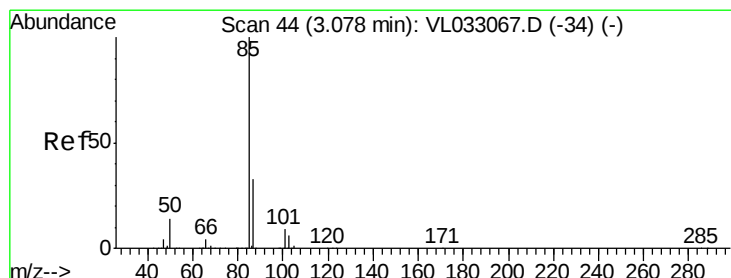
Acq: 16 Jan 2019 17:01

Tgt Ion: 85 Resp: 53241

Ion Ratio Lower Upper

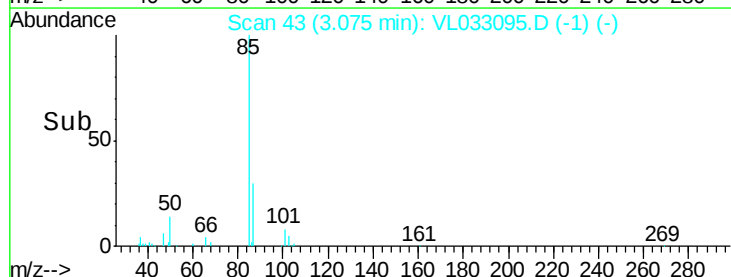
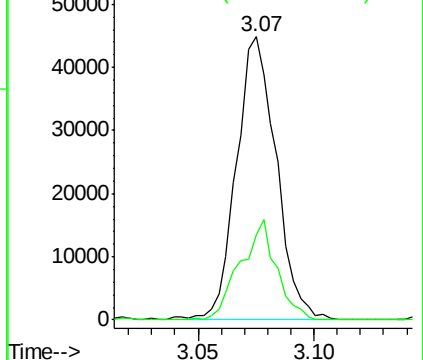
85 100

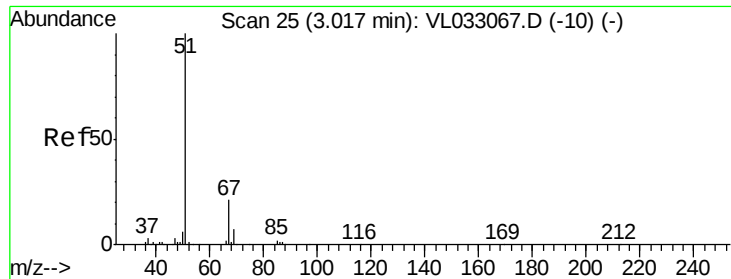
87 30.0 26.3 39.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

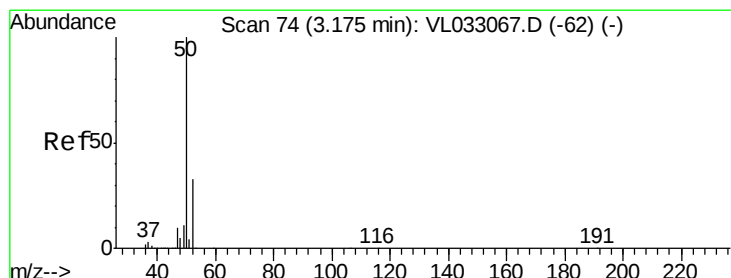
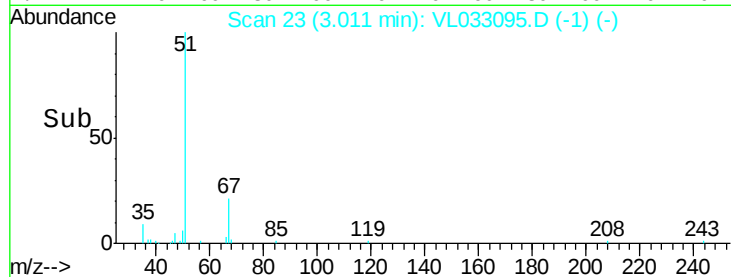
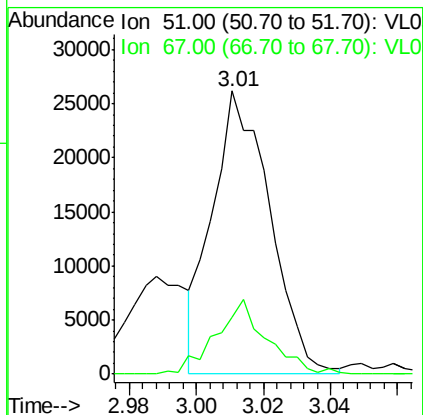
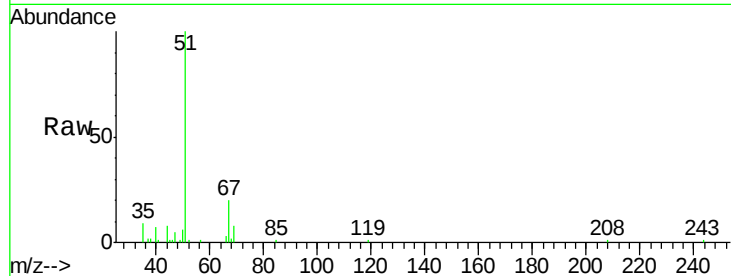
Chlorodifluoromethane
 Concen: 0.273 ppbv
 RT: 3.01 min Scan# 23
 Delta R.T. -0.00 min
 Lab File: VL033095.D
 Acq: 16 Jan 2019 17:01

Instrument :
 MSVOA_L
 ClientSampled :
 OA1A

Tot Ion	Ion	Ratio	Lower	Upper
51	51	100		
67	67	23.4	16.3	24.5

Manual Integrations
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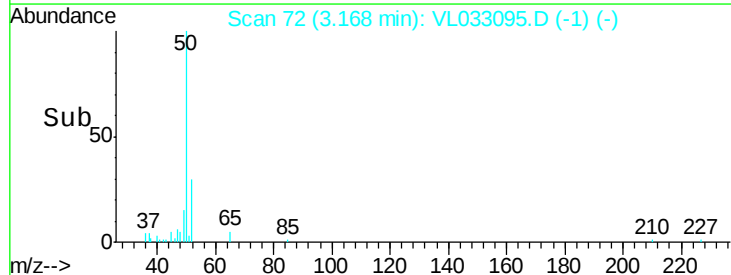
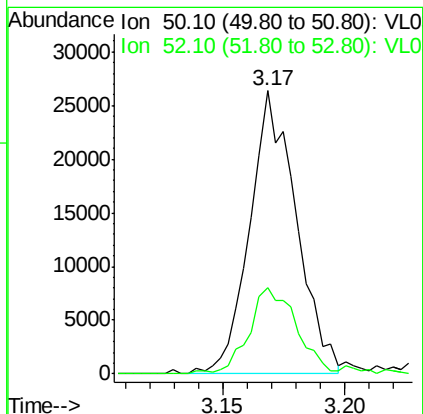
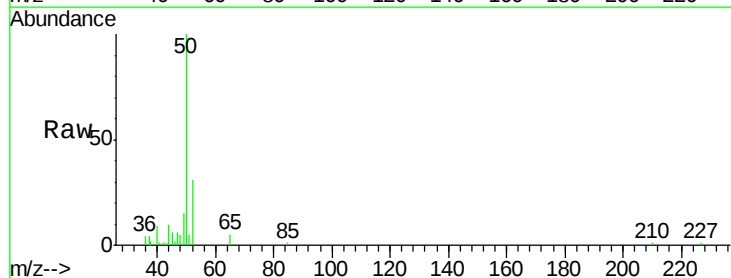
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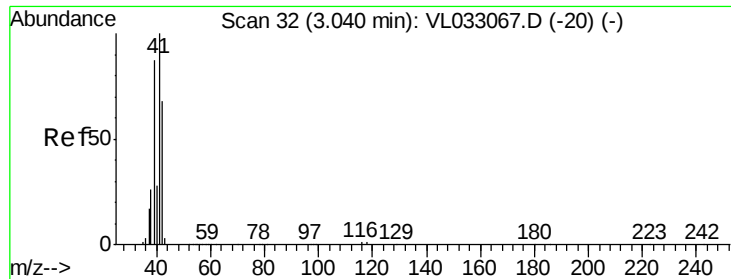


#4

Chloromethane
 Concen: 0.532 ppbv
 RT: 3.17 min Scan# 72
 Delta R.T. -0.00 min
 Lab File: VL033095.D
 Acq: 16 Jan 2019 17:01

Tgt Ion	Ion	Ratio	Lower	Upper
50	50	100		
52	52	30.6	26.9	40.3





#9

Propene

Concen: 0.549 ppbv m

RT: 3.05 min Scan# 34

Delta R.T. 0.01 min

Lab File: VL033095.D

Acq: 16 Jan 2019 17:01

Instrument :

MSVOA_L

ClientSampleId :

QA1A

Tot Ion: 41 Resp: 23398

Ion Ratio Lower Upper

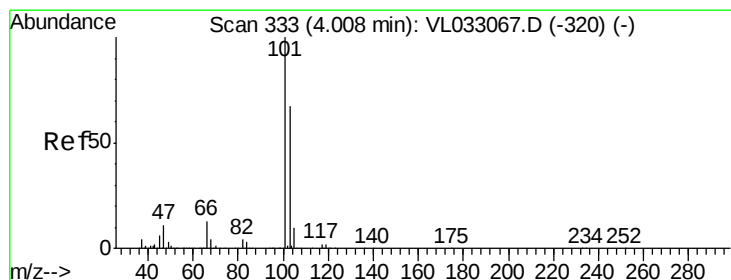
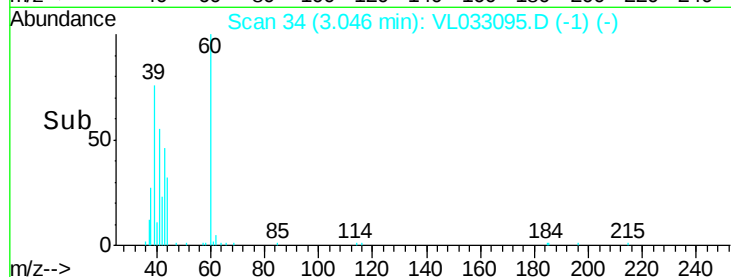
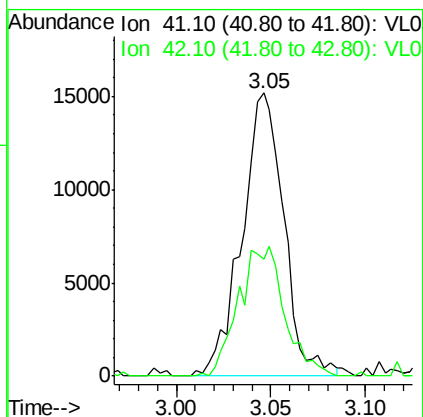
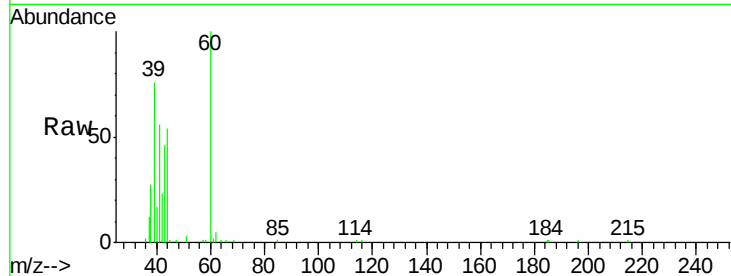
41 100

42 81.3 55.3 82.9

Manual Integrations
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#11

Trichlorofluoromethane

Concen: 0.214 ppbv

RT: 4.00 min Scan# 331

Delta R.T. -0.00 min

Lab File: VL033095.D

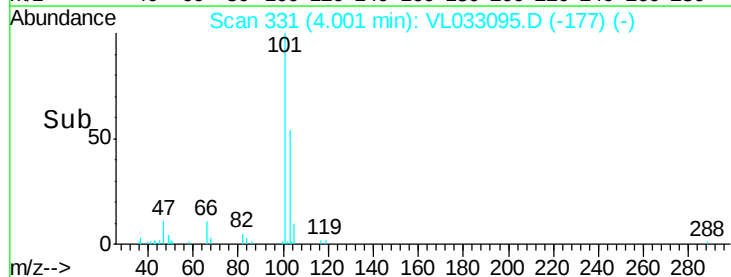
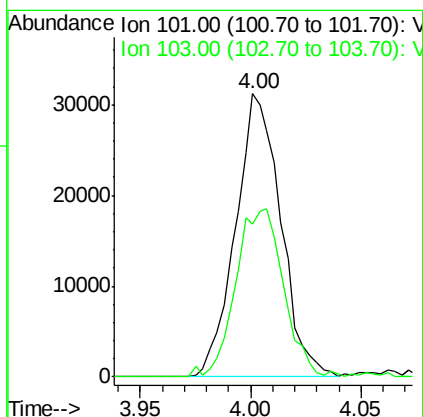
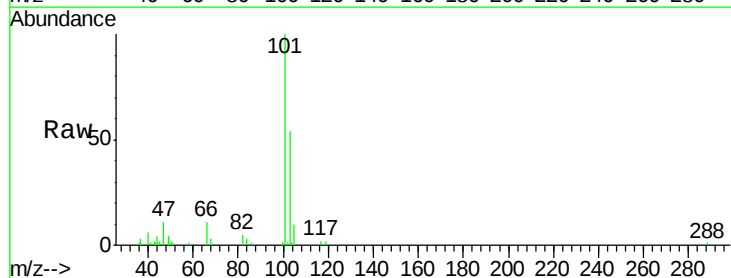
Acq: 16 Jan 2019 17:01

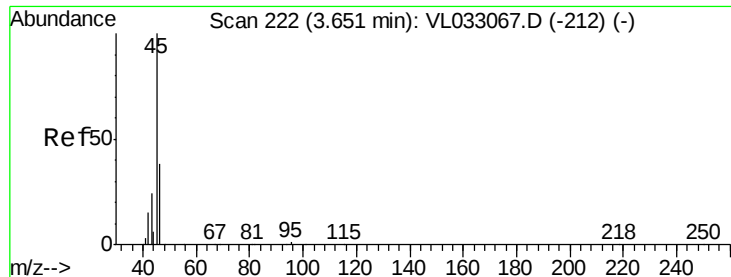
Tgt Ion: 101 Resp: 44428

Ion Ratio Lower Upper

101 100

103 54.2 51.7 77.5





#13

Ethanol

Concen: 4.242 ppbv m

RT: 3.66 min Scan# 224

Delta R.T. 0.01 min

Lab File: VL033095.D

Acq: 16 Jan 2019 17:01

Instrument :

MSVOA_L

ClientSampleId :

QA1A

Tot Ion: 45 Resp: 72070

Ion Ratio Lower Upper

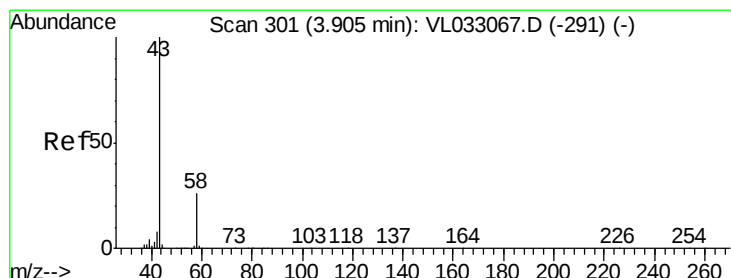
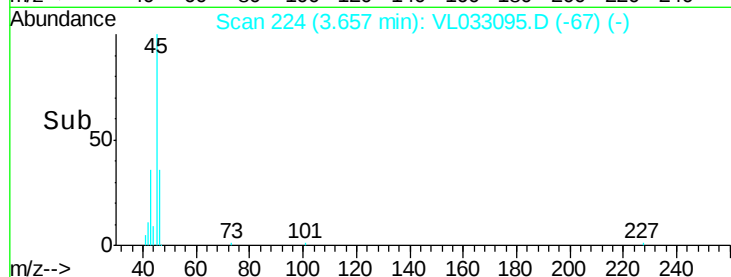
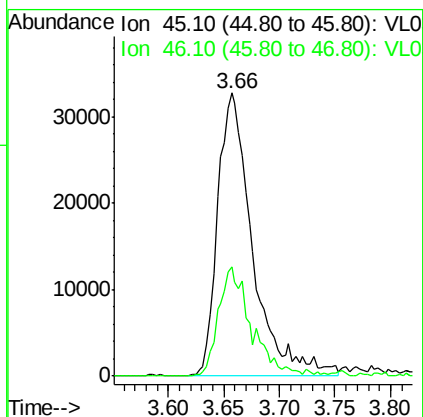
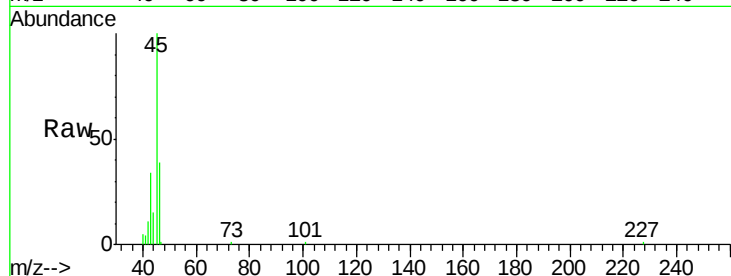
45 100

46 37.7 13.8 55.2

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#15

Acetone

Concen: 0.847 ppbv m

RT: 3.91 min Scan# 303

Delta R.T. 0.01 min

Lab File: VL033095.D

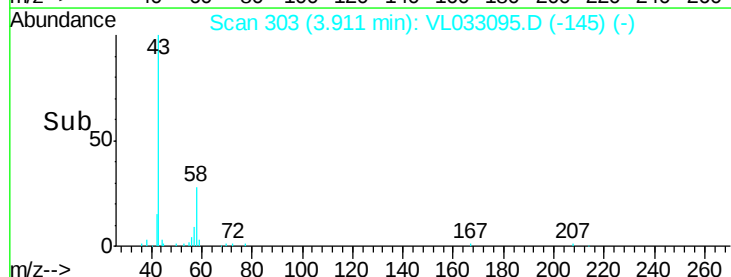
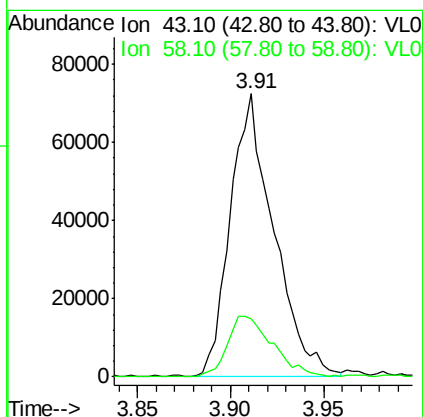
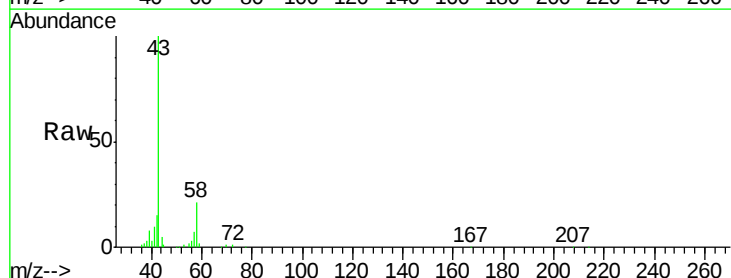
Acq: 16 Jan 2019 17:01

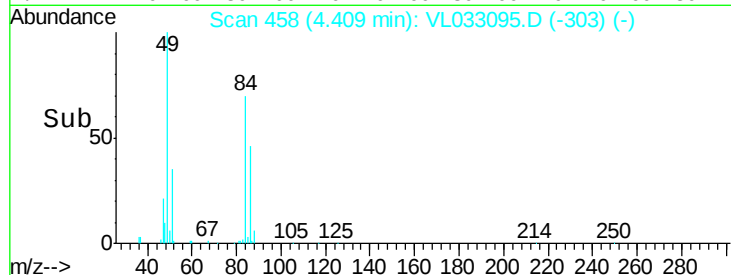
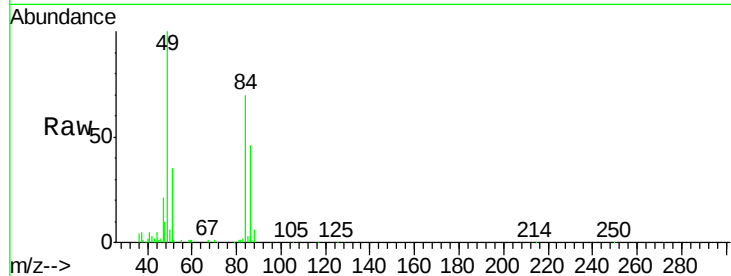
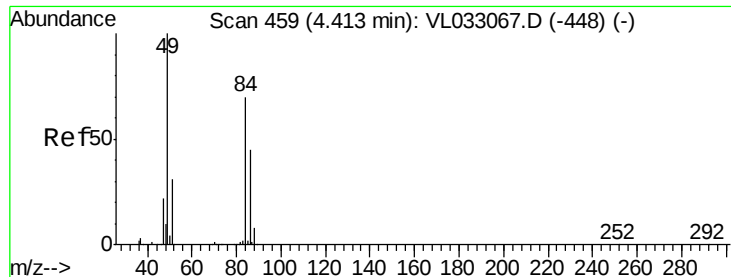
Tgt Ion: 43 Resp: 118074

Ion Ratio Lower Upper

43 100

58 23.1 21.1 31.7





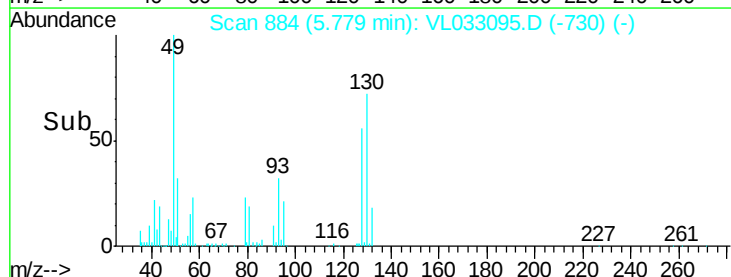
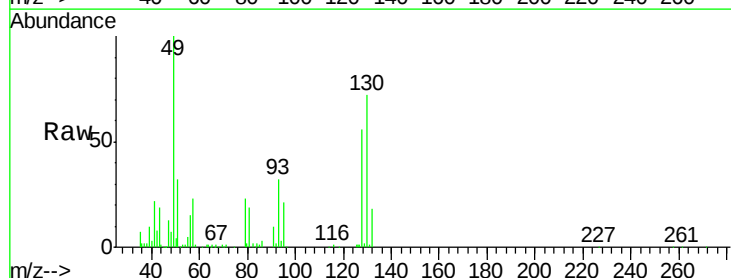
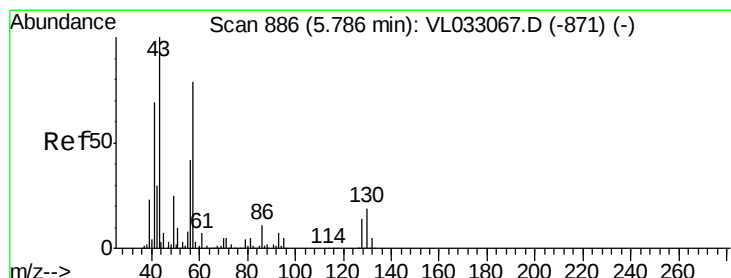
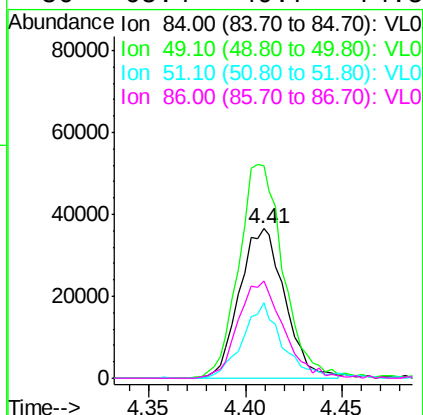
#20
Methvlene Chloride
Concen: 1.021 ppbv
RT: 4.41 min Scan# 458
Delta R.T. -0.00 min
Lab File: VL033095.D
Acq: 16 Jan 2019 17:01

Tot Ion	84	Resp	59333
Ion Ratio	100	Lower	Upper
49	142.4	115.8	173.6
51	50.4	35.7	53.5
86	65.4	49.7	74.5

Instrument :
MSVOA_L
ClientSampleId :
QA1A

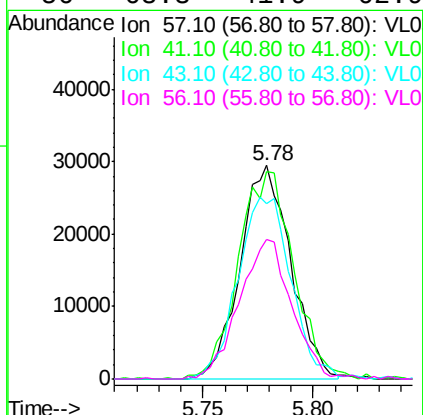
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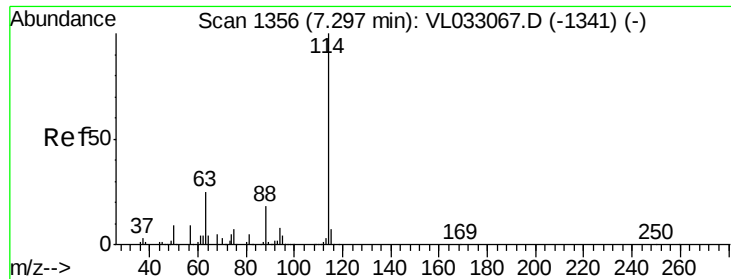
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#26
Hexane
Concen: 0.423 ppbv
RT: 5.78 min Scan# 884
Delta R.T. -0.00 min
Lab File: VL033095.D
Acq: 16 Jan 2019 17:01

Tgt Ion	57	Resp	46971
Ion Ratio	100	Lower	Upper
41	106.9	70.8	106.2#
43	90.7	171.8	257.6#
56	68.3	41.9	62.9#





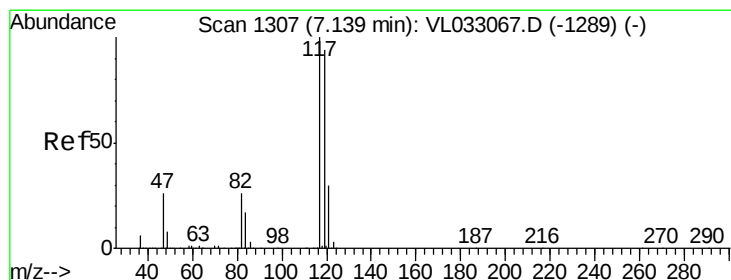
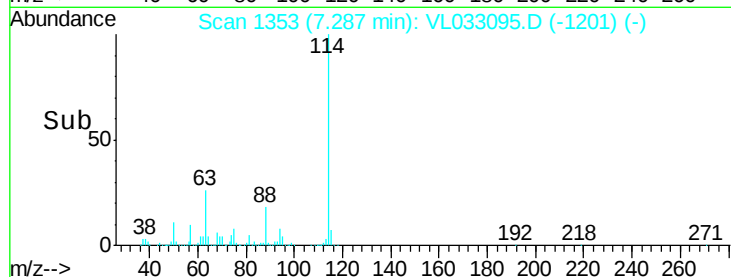
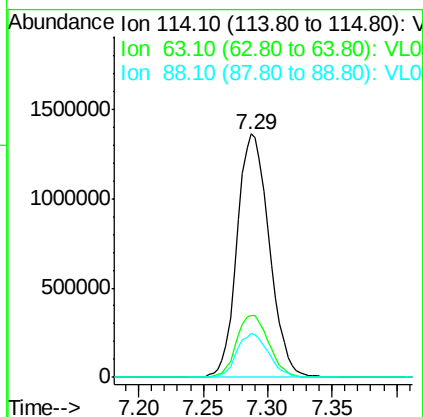
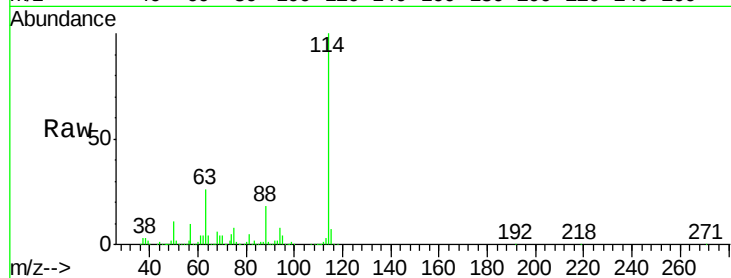
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1353
 Delta R.T. -0.01 min
 Lab File: VL033095.D
 Acq: 16 Jan 2019 17:01

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1A

Tot Ion	Ratio	Lower	Upper
114	100		
63	25.9	20.1	30.1
88	17.9	14.0	21.0

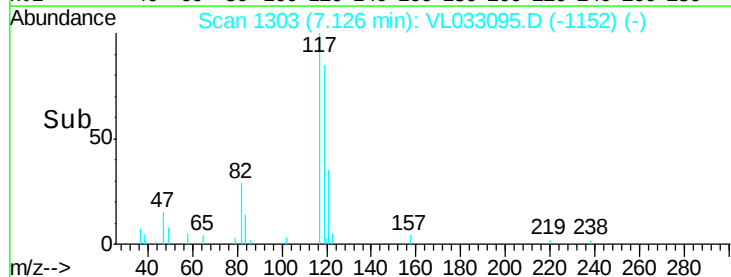
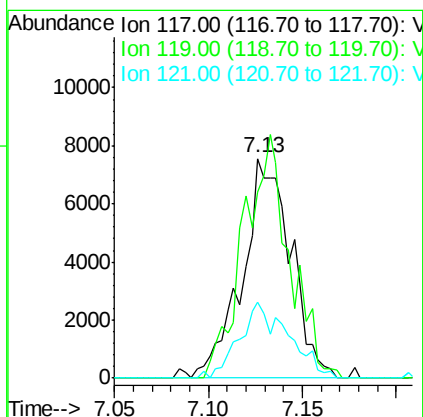
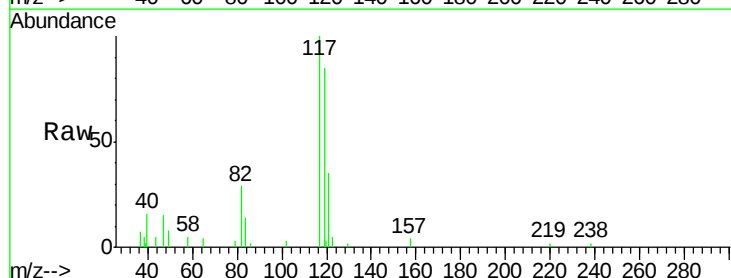
Manual Integrations
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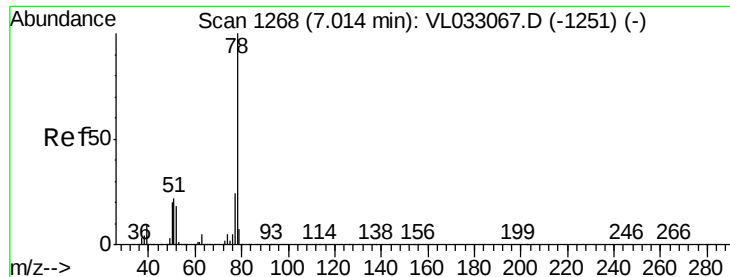
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 1/17/2019 3:16:27 PM



#35
 Carbon Tetrachloride
 Concen: 0.067 ppbv m
 RT: 7.13 min Scan# 1303
 Delta R.T. -0.01 min
 Lab File: VL033095.D
 Acq: 16 Jan 2019 17:01

Tgt Ion	Ratio	Lower	Upper
117	100		
119	84.6	76.5	114.7
121	34.6	25.2	37.8





#36

Benzene

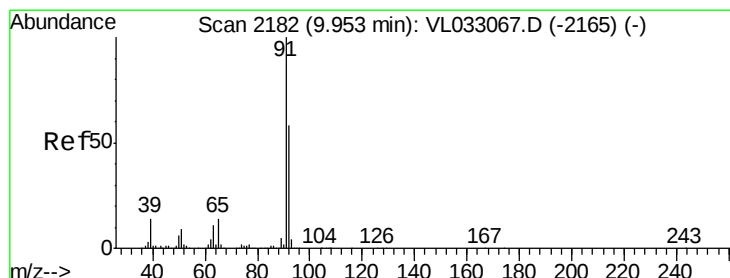
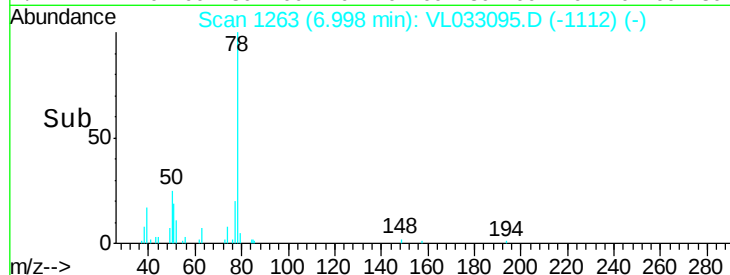
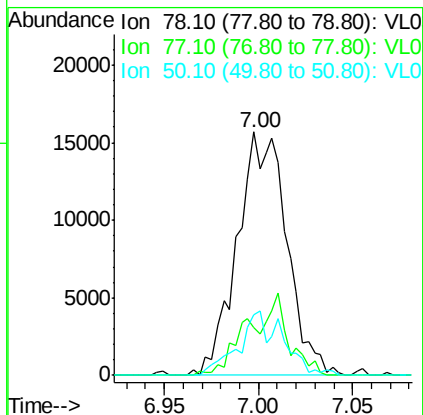
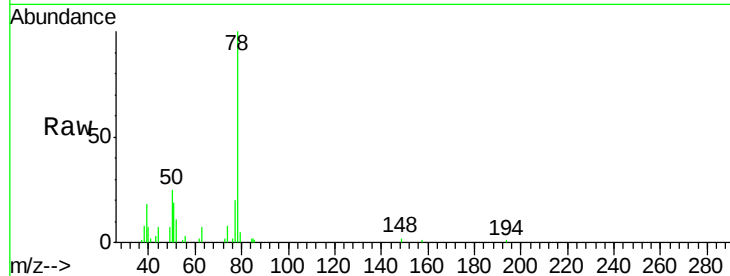
Concen: 0.148 ppbv m
RT: 7.00 min Scan# 1263
Delta R.T. -0.01 min
Lab File: VL033095.D
Acq: 16 Jan 2019 17:01

Instrument :
MSVOA_L
ClientSampleId :
QA1A

Tot Ion	Ratio	Lower	Upper
78	100		
77	19.6	18.5	27.7
50	24.9	15.7	23.5#

Manual Integrations
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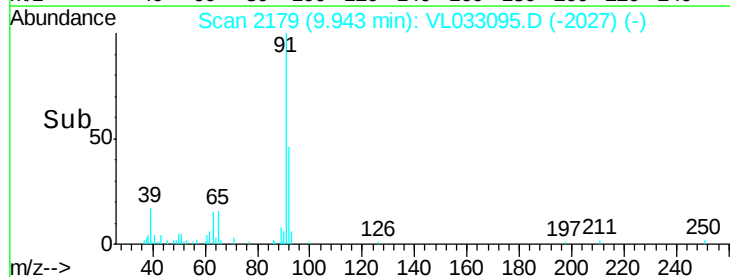
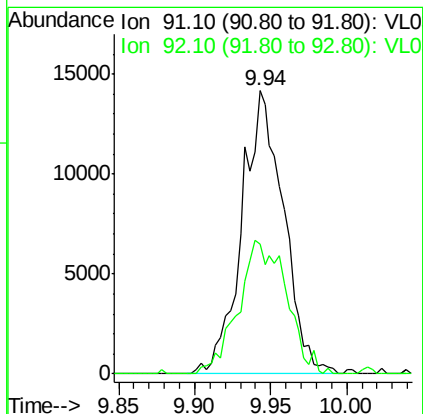
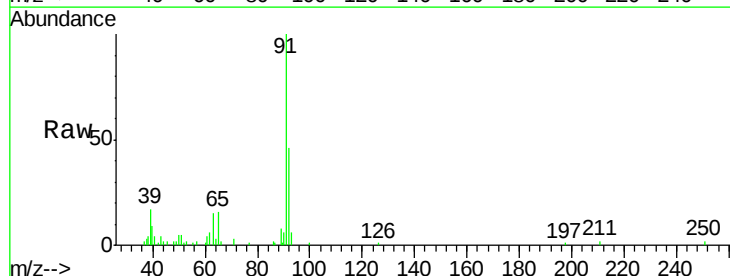


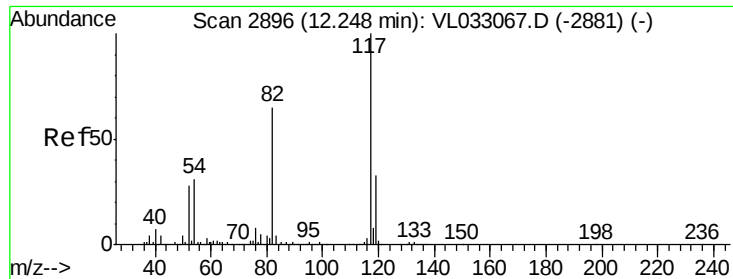
#53

Toluene

Concen: 0.130 ppbv m
RT: 9.94 min Scan# 2179
Delta R.T. -0.01 min
Lab File: VL033095.D
Acq: 16 Jan 2019 17:01

Tgt Ion	Ratio	Lower	Upper
91	100		
92	54.2	47.7	71.5





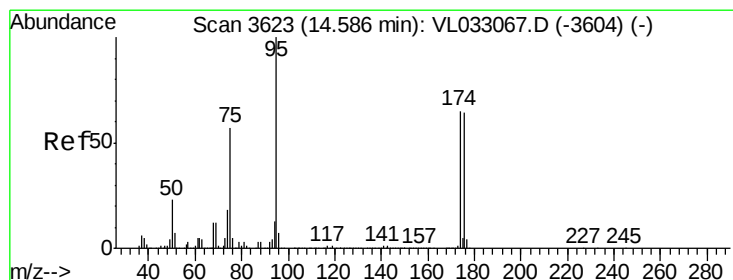
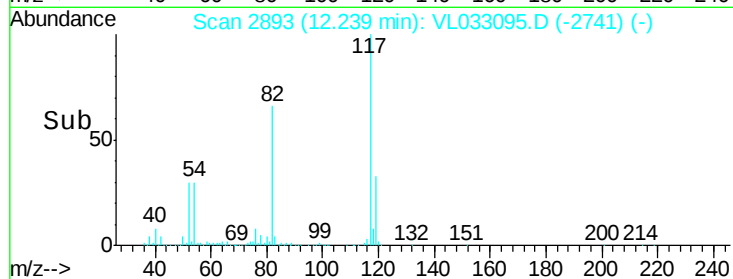
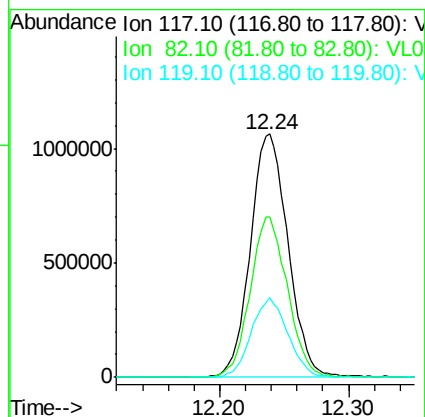
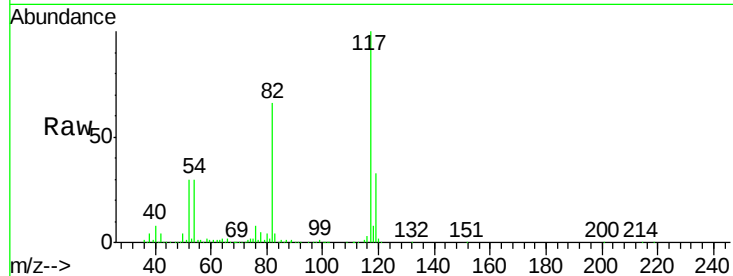
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2893
Delta R.T. -0.01 min
Lab File: VL033095.D
Acq: 16 Jan 2019 17:01

Instrument :
MSVOA_L
ClientSampled :
QA1A

Tot Ion:117 Resp: 2158707
Ion Ratio Lower Upper
117 100
82 65.9 48.9 73.3
119 32.3 24.6 37.0

Manual Integrations
APPROVED

MMDadoda
1/17/2019 3:16:27 PM



#68
1-Bromo-4-Fluorobenzene
Concen: 10.354 ppbv
RT: 14.58 min Scan# 3620
Delta R.T. -0.01 min
Lab File: VL033095.D
Acq: 16 Jan 2019 17:01

Tgt Ion: 95 Resp: 1713413
Ion Ratio Lower Upper
95 100
174 64.1 51.9 77.9
175 4.7 3.9 5.9

