

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL020419\
 Data File : VL033160.D
 Acq On : 4 Feb 2019 18:34
 Operator : SY/AP
 Sample : K1245-01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 S-01

Manual Integrations
 APPROVED

MMDadoda
 2/5/2019 10:27:58 AM

Quant Time: Feb 05 09:27:19 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL020419AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Feb 0
 QLast Update : Mon Feb 04 14:41:39 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	994680	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2247447	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2468658	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	2768494	15.05	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	150.50%#

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	97747	0.667	ppbv	93
3) Chlorodifluoromethane	3.02	51	36559m	0.330	ppbv	
4) Chloromethane	3.17	50	39211	0.629	ppbv	96
10) Heptane	8.25	43	30303	0.175	ppbv	98
11) Trichlorofluoromethane	4.01	101	38858	0.275	ppbv	100
13) Ethanol	3.66	45	1851502	84.374	ppbv	98
15) Acetone	3.91	43	421984m	3.563	ppbv	
20) Methylene Chloride	4.41	84	116064	2.845	ppbv	98
26) Hexane	5.78	57	203618	1.778	ppbv #	61
29) Chloroform	5.85	83	341459	1.971	ppbv	97
30) Cyclohexane	7.25	84	12940	0.118	ppbv #	16
31) cis-1,2-Dichloroethene	5.64	61	11977	0.110	ppbv	92
34) 2-Butanone	5.34	43	82084	0.581	ppbv	100
35) Carbon Tetrachloride	7.14	117	13177m	0.092	ppbv	
36) Benzene	7.00	78	81859	0.360	ppbv	98
38) Trichloroethene	7.96	130	59408	0.720	ppbv	87
44) 2,2,4-Trimethylpentane	7.99	57	83488m	0.219	ppbv	
52) Tetrachloroethene	11.38	164	255197	3.232	ppbv	97
53) Toluene	9.95	91	369131m	1.368	ppbv	
58) Ethyl Benzene	12.87	91	62614m	0.161	ppbv	
59) m/p-Xylene	13.12	91	199573m	0.627	ppbv	
60) o-Xylene	13.85	91	83683	0.285	ppbv	93
74) 1,2,4-Trimethylbenzene	16.93	105	93532	0.271	ppbv #	80

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

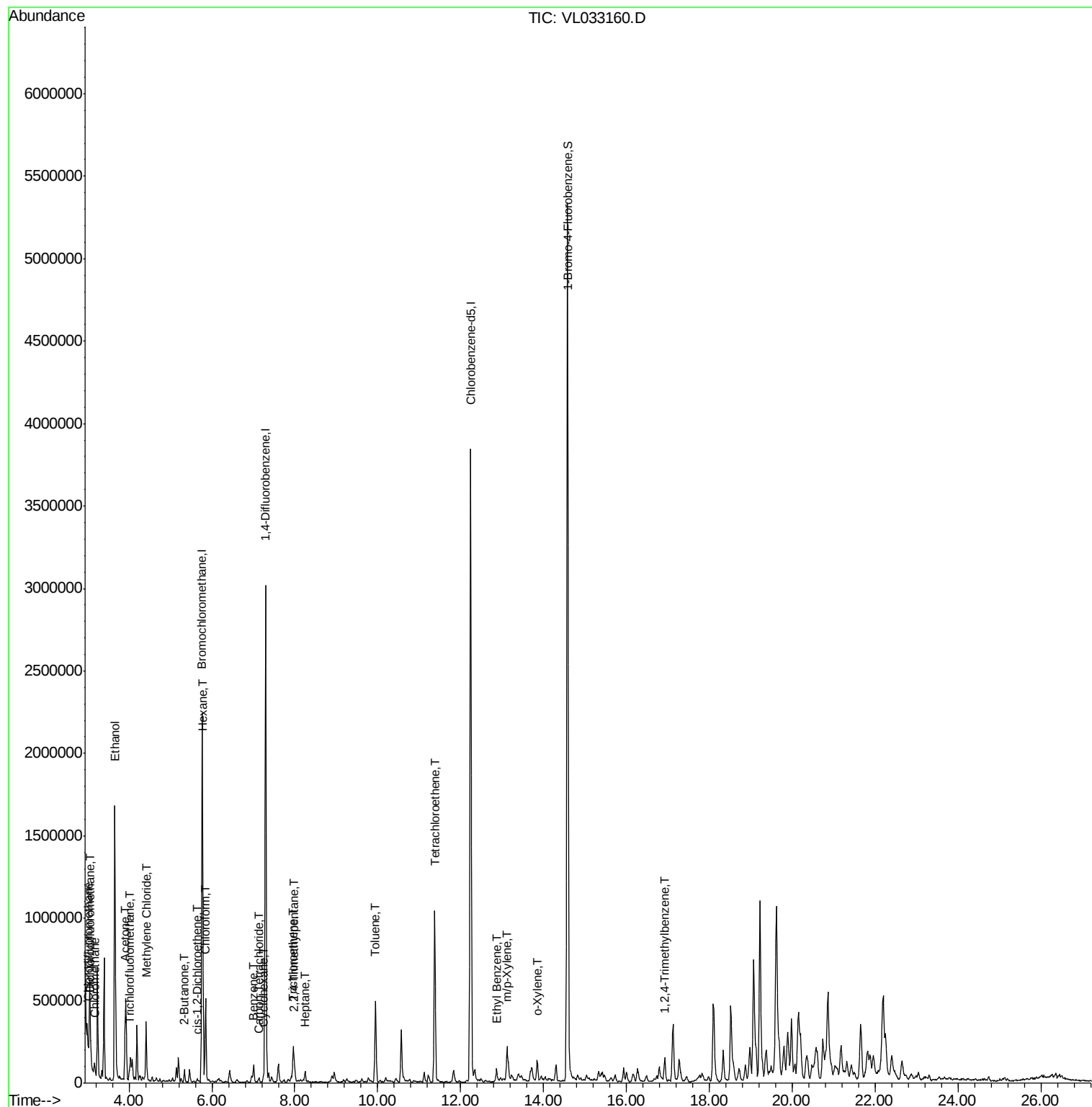
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL020419\
Data File : VL033160.D
Acq On : 4 Feb 2019 18:34
Operator : SY/AP
Sample : K1245-01
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

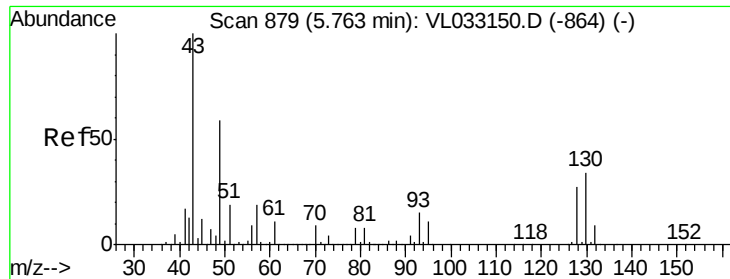
Instrument :
MSVOA_L
ClientSampleId :
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Quant Time: Feb 05 09:27:19 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL020419AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Feb
QLast Update : Mon Feb 04 14:41:39 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 879

Delta R.T. 0.01 min

Lab File: VL033160.D

Acq: 4 Feb 2019 18:34

Instrument :

MSVOA_L

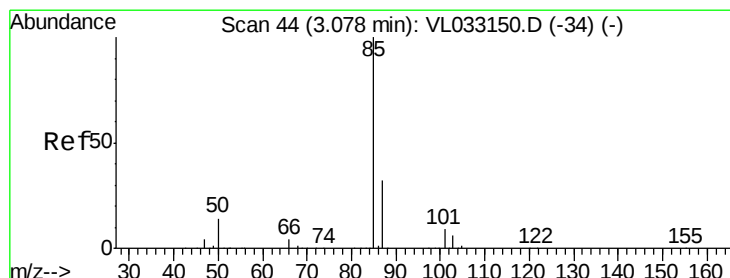
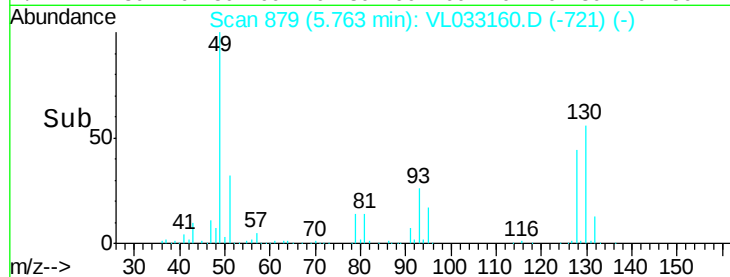
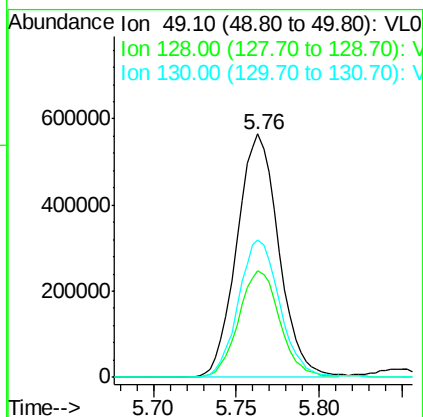
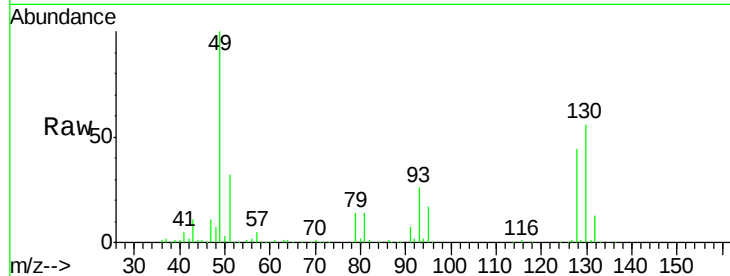
ClientSampled :

S-01

Tot Ion:	49	Resp:	994680
Ion	Ratio	Lower	Upper
49	100		
128	43.8	23.2	69.5
130	56.6	29.5	88.6

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#2

Dichlorodifluoromethane

Concen: 0.667 ppbv

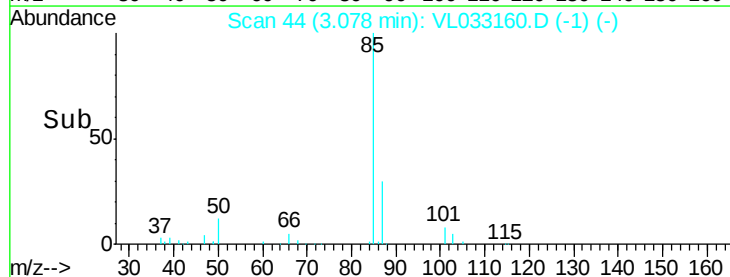
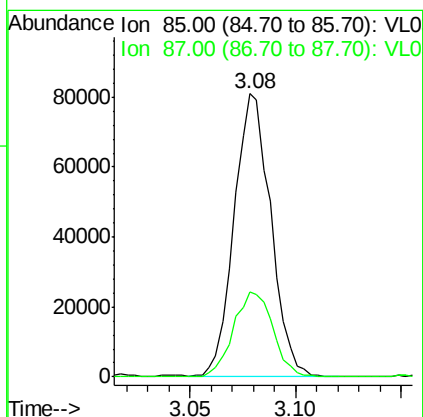
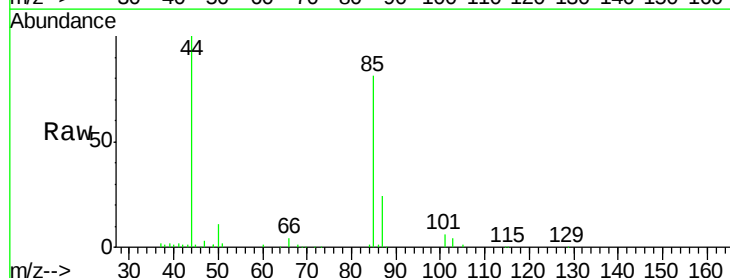
RT: 3.08 min Scan# 44

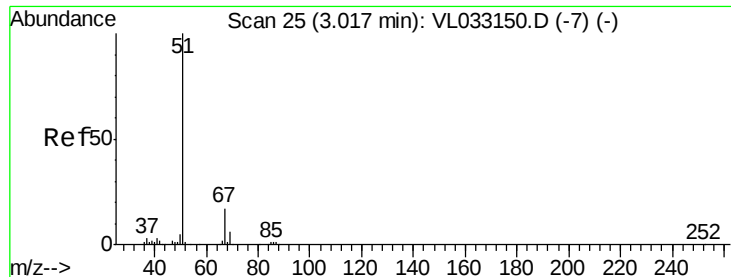
Delta R.T. 0.00 min

Lab File: VL033160.D

Acq: 4 Feb 2019 18:34

Tgt Ion:	85	Resp:	97747
Ion	Ratio	Lower	Upper
85	100		
87	29.9	27.4	41.0





#3

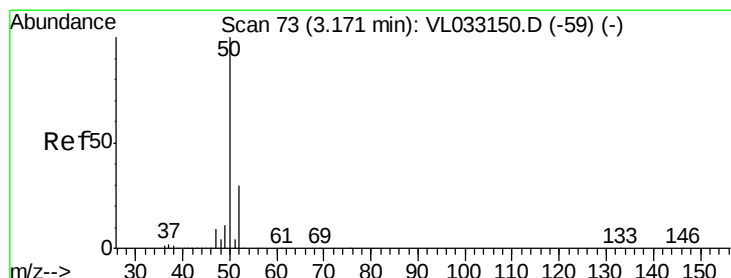
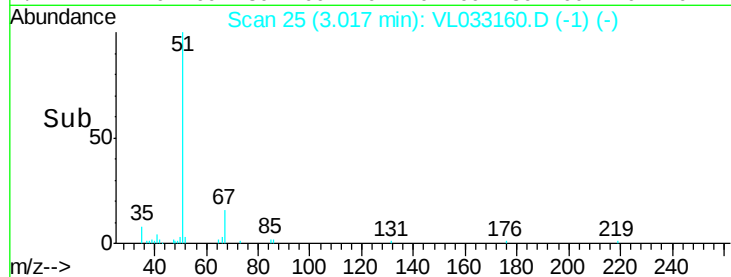
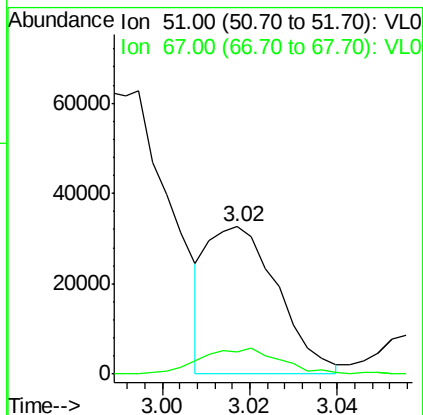
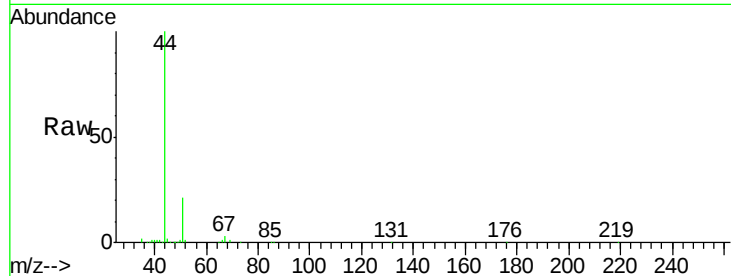
Chlorodifluoromethane
Concen: 0.330 ppbv
RT: 3.02 min Scan# 25
Delta R.T. 0.01 min
Lab File: VL033160.D
Acq: 4 Feb 2019 18:34

Instrument :
MSVOA_L
ClientSampled :
S-01

Tot Ion	Ratio	Lower	Upper
51	100		
67	20.2	13.4	20.2#

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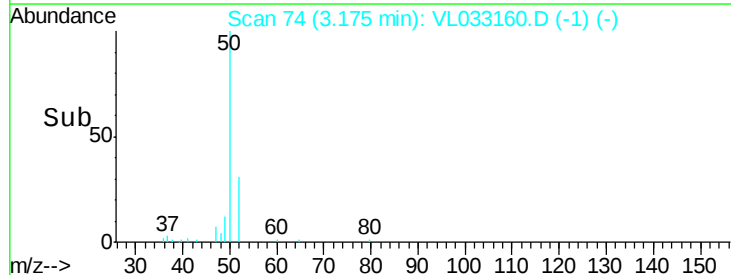
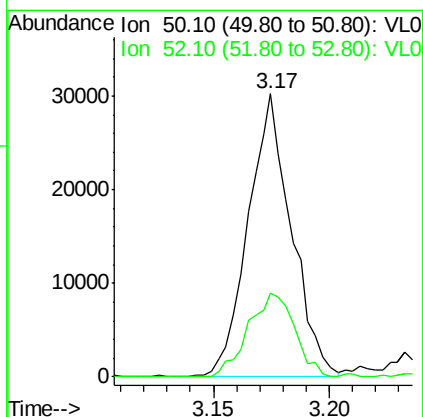
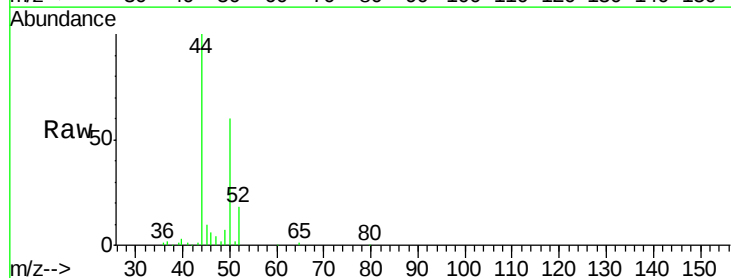
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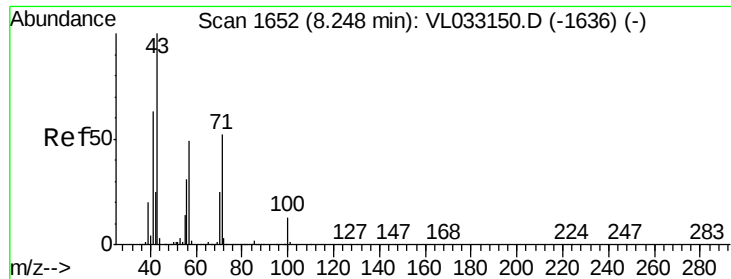


#4

Chloromethane
Concen: 0.629 ppbv
RT: 3.17 min Scan# 74
Delta R.T. 0.01 min
Lab File: VL033160.D
Acq: 4 Feb 2019 18:34

Tgt Ion	Ratio	Lower	Upper
50	100		
52	29.8	25.7	38.5





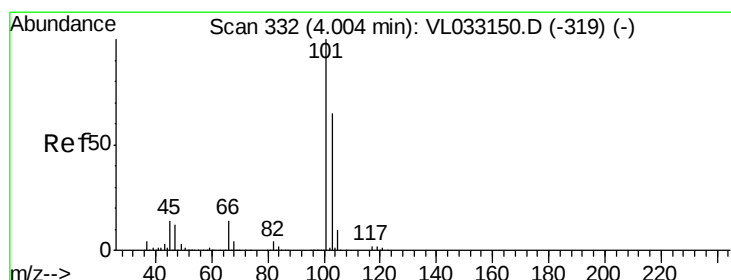
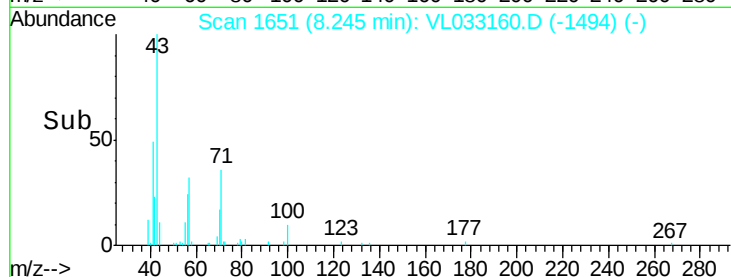
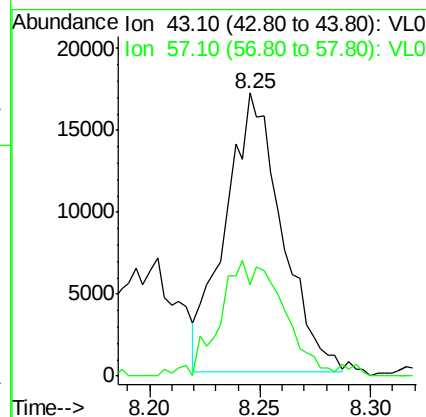
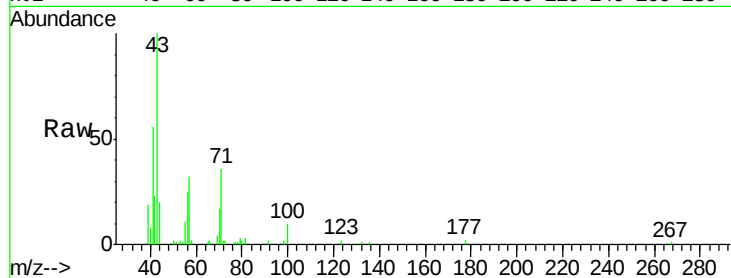
#10
 Heptane
 Concen: 0.175 ppbv
 RT: 8.25 min Scan# 1651
 Delta R.T. 0.00 min
 Lab File: VL033160.D
 Acq: 4 Feb 2019 18:34

Instrument :
 MSVOA_L
 ClientSampled :
 S-01

Tot Ion	43	Resp	30303
Ion Ratio	100	Lower	Upper
57	47.8	39.3	58.9

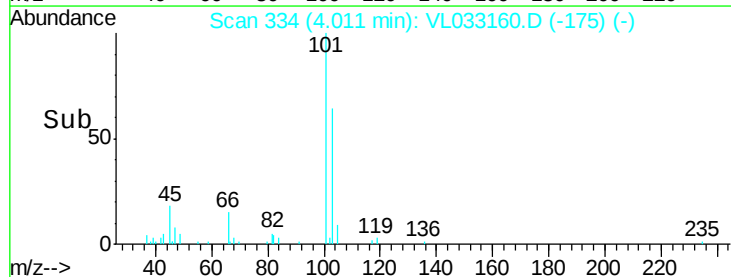
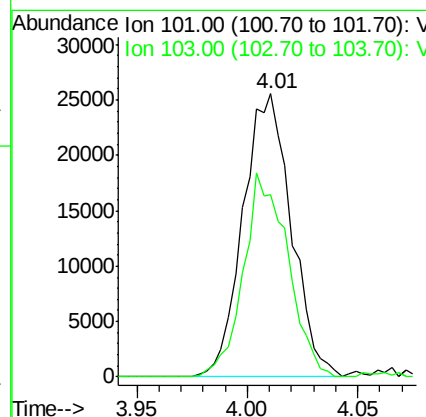
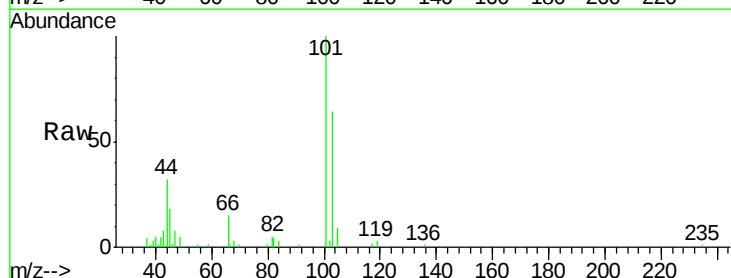
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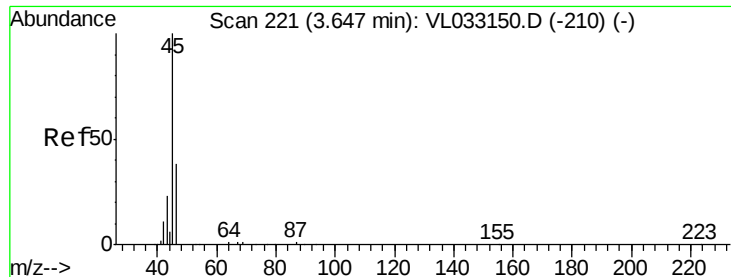
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#11
 Trichlorofluoromethane
 Concen: 0.275 ppbv
 RT: 4.01 min Scan# 334
 Delta R.T. 0.01 min
 Lab File: VL033160.D
 Acq: 4 Feb 2019 18:34

Tgt Ion	101	Resp	38858
Ion Ratio	100	Lower	Upper
103	64.4	51.3	76.9





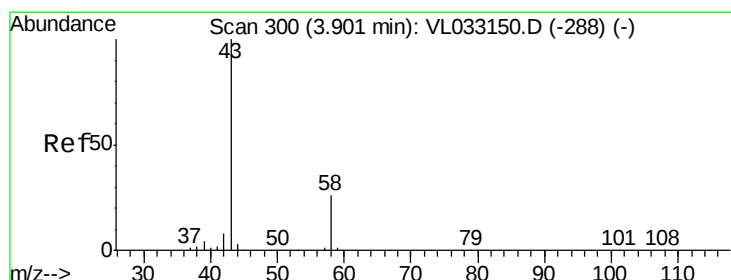
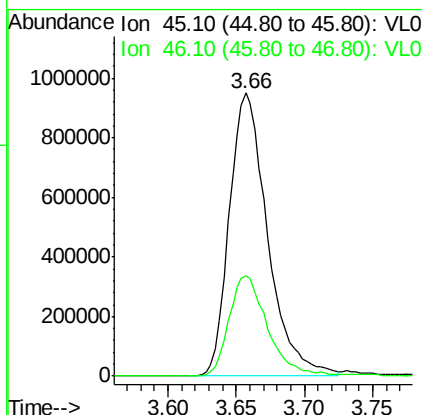
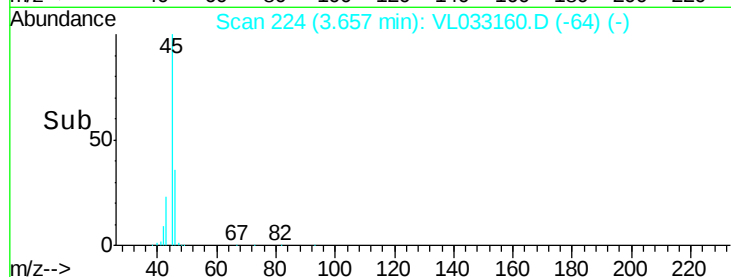
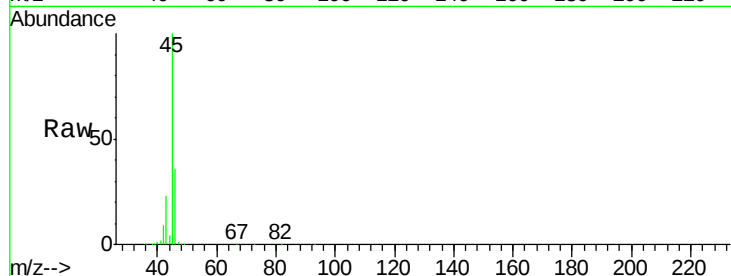
#13
Ethanol
Concen: 84.374 ppbv
RT: 3.66 min Scan# 224
Delta R.T. 0.01 min
Lab File: VL033160.D
Acq: 4 Feb 2019 18:34

Instrument :
MSVOA_L
ClientSampleId :
S-01

Tot Ion: 45 Resp: 1851502
Ion Ratio Lower Upper
45 100
46 36.3 14.0 56.2

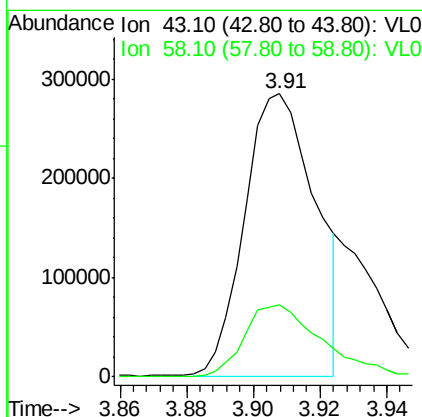
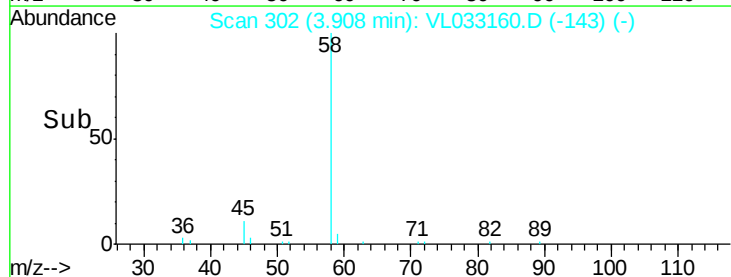
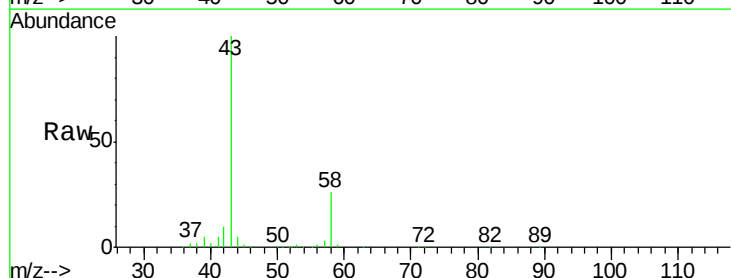
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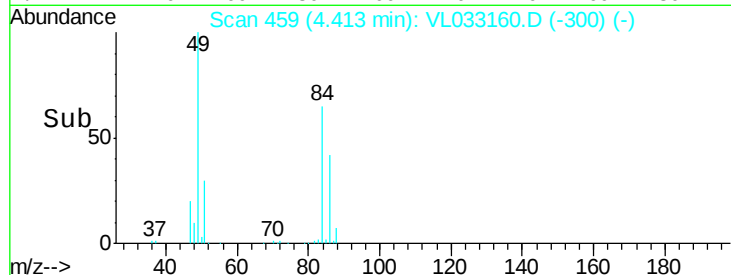
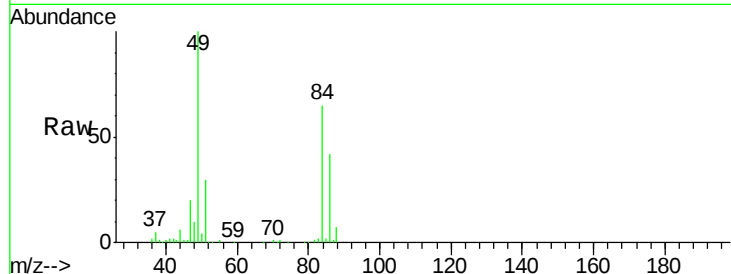
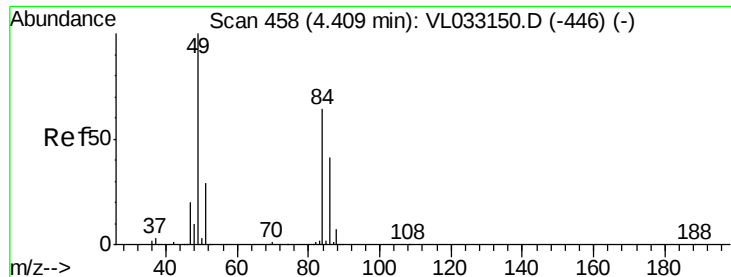
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#15
Acetone
Concen: 3.563 ppbv m
RT: 3.91 min Scan# 302
Delta R.T. 0.01 min
Lab File: VL033160.D
Acq: 4 Feb 2019 18:34

Tgt Ion: 43 Resp: 421984
Ion Ratio Lower Upper
43 100
58 28.4 21.8 32.6





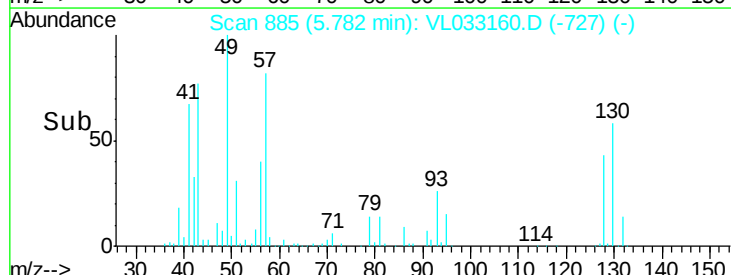
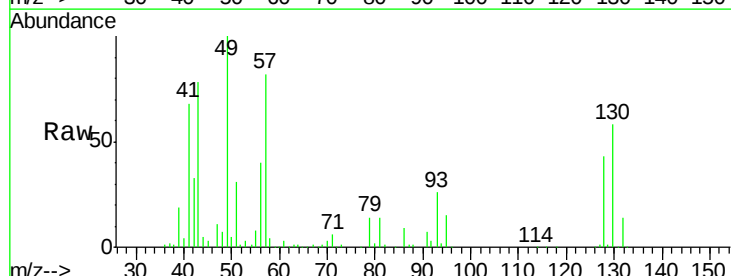
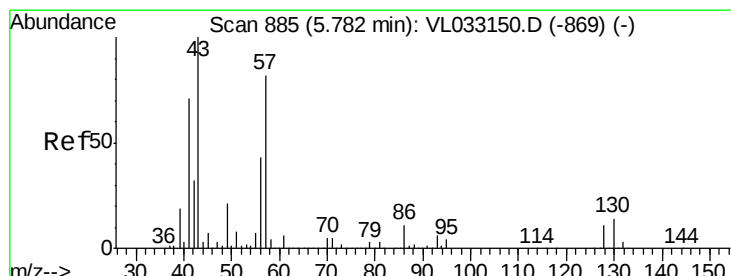
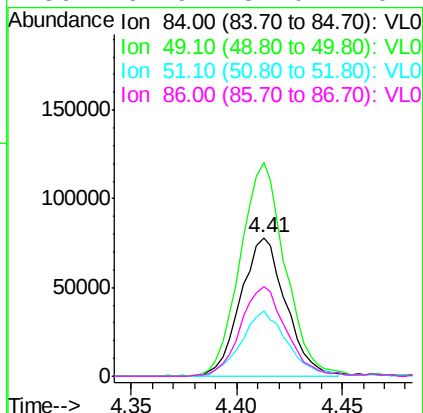
#20
Methylene Chloride
Concen: 2.845 ppbv
RT: 4.41 min Scan# 459
Delta R.T. 0.01 min
Lab File: VL033160.D
Acq: 4 Feb 2019 18:34

Tot Ion	84	Resp	116064
Ion Ratio	Lower	Upper	
84	100		
49	154.2	121.1	181.7
51	46.8	37.5	56.3
86	64.9	51.0	76.4

Instrument :
MSVOA_L
ClientSampled :
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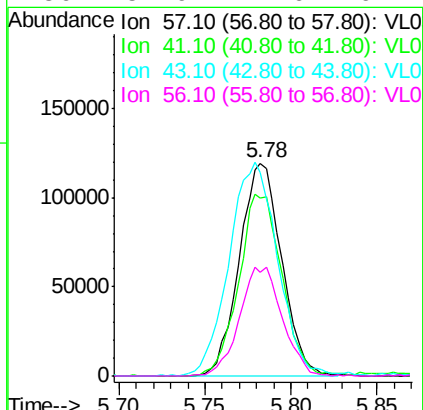
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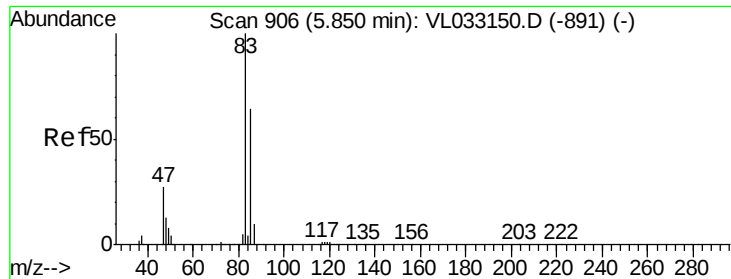
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#26
Hexane
Concen: 1.778 ppbv
RT: 5.78 min Scan# 885
Delta R.T. 0.01 min
Lab File: VL033160.D
Acq: 4 Feb 2019 18:34

Tgt Ion	57	Resp	203618
Ion Ratio	Lower	Upper	
57	100		
41	87.6	69.5	104.3
43	117.2	175.5	263.3#
56	51.9	41.6	62.4





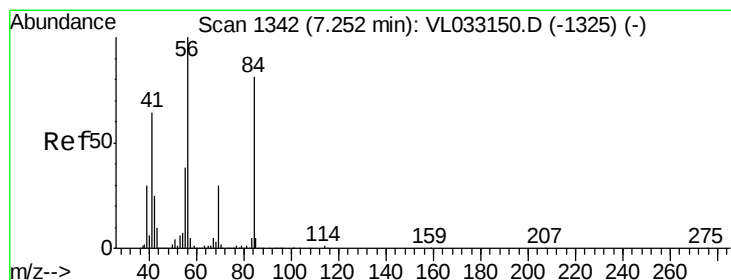
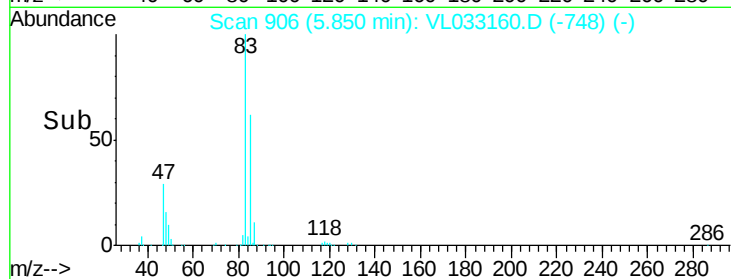
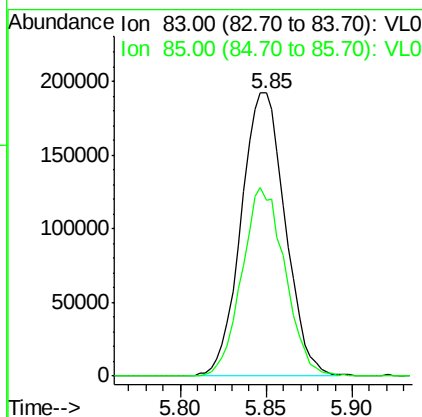
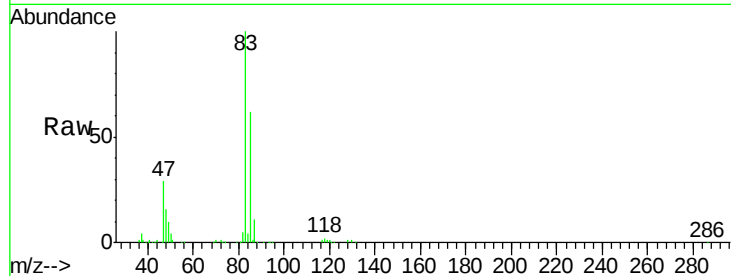
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Chloroform
Concen: 1.971 ppbv
RT: 5.85 min Scan# 906
Delta R.T. 0.01 min
Lab File: VL033160.D
Acq: 4 Feb 2019 18:34

Instrument :
MSVOA_L
ClientSampleId :
S-01

Tot Ion	83	Resp	341459
Ion Ratio	Lower	Upper	
83	100		
85	62.1	51.6	77.4

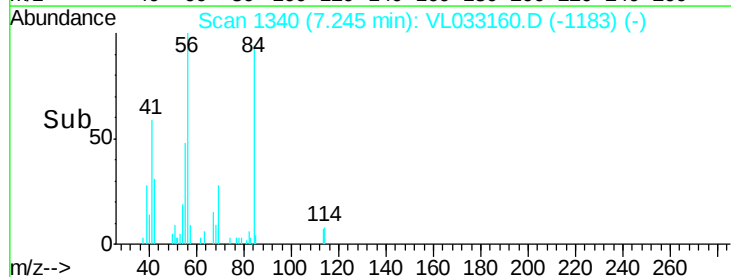
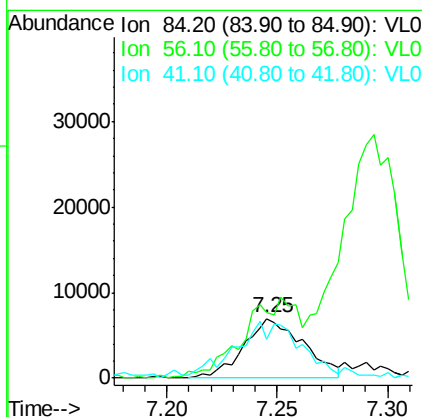
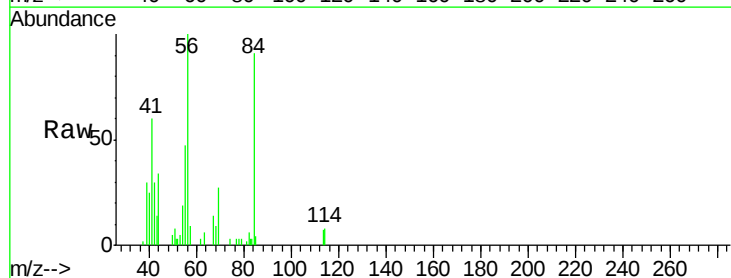
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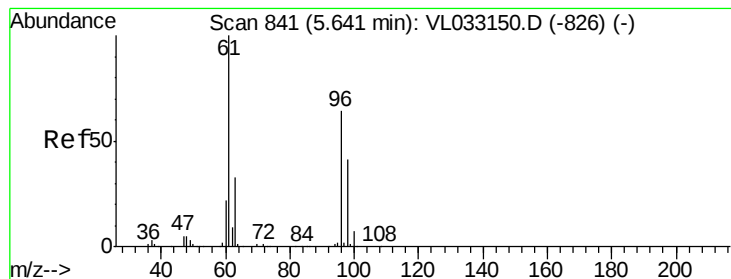
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#30
Cyclohexane
Concen: 0.118 ppbv
RT: 7.25 min Scan# 1340
Delta R.T. 0.00 min
Lab File: VL033160.D
Acq: 4 Feb 2019 18:34

Tgt Ion	84	Resp	12940
Ion Ratio	Lower	Upper	
84	100		
56	0.0	109.0	163.4#
41	112.8	65.3	97.9#





#31

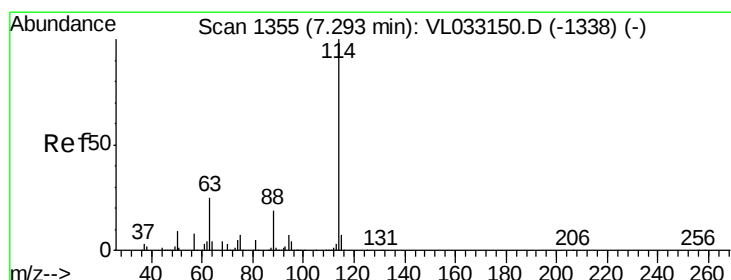
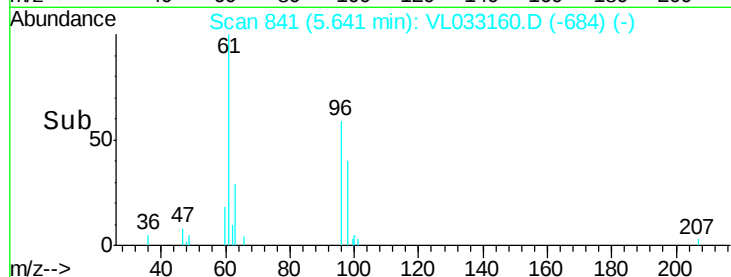
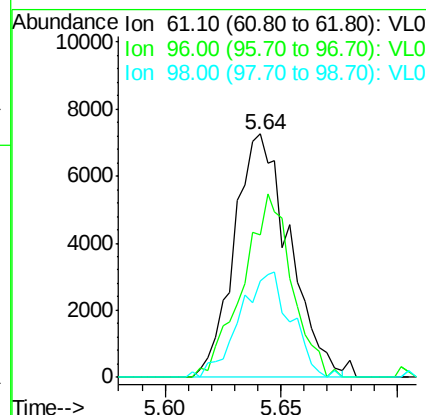
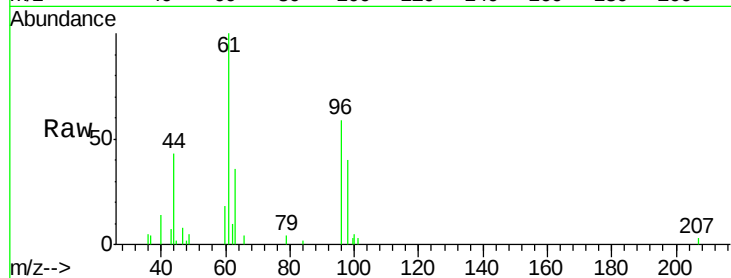
cis-1,2-Dichloroethene
 Concen: 0.110 ppbv
 RT: 5.64 min Scan# 841
 Delta R.T. 0.00 min
 Lab File: VL033160.D
 Acq: 4 Feb 2019 18:34

Instrument :
 MSVOA_L
 ClientSampleId :
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Tot Ion	Ratio	Lower	Upper
61	100		
96	58.6	53.3	79.9
98	39.7	33.7	50.5

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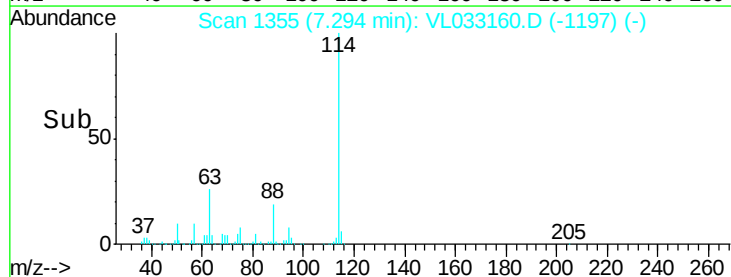
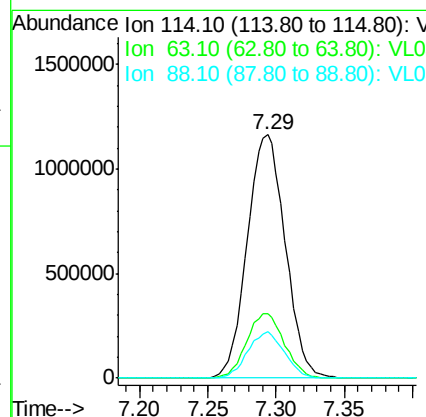
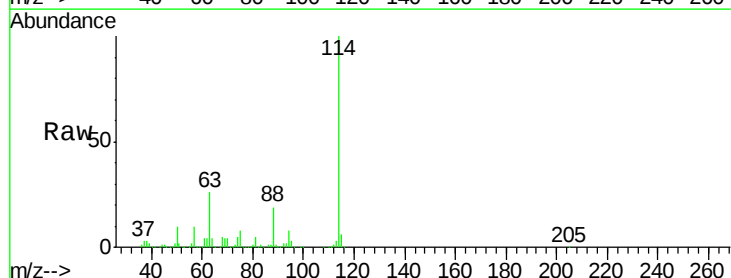
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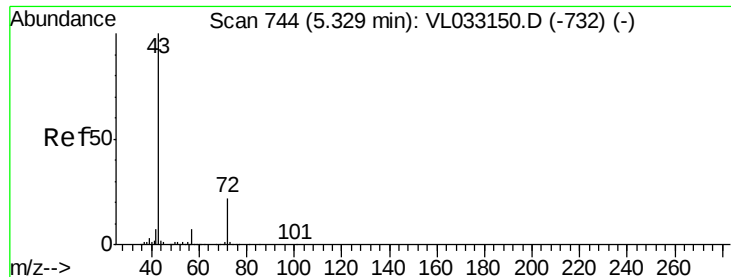


#33

1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1355
 Delta R.T. 0.01 min
 Lab File: VL033160.D
 Acq: 4 Feb 2019 18:34

Tgt Ion	Ratio	Lower	Upper
114	100		
63	26.5	20.0	30.0
88	18.4	14.4	21.6





#34

2-Butanone

Concen: 0.581 ppbv

RT: 5.34 min Scan# 747

Delta R.T. 0.02 min

Lab File: VL033160.D

Acq: 4 Feb 2019 18:34

Instrument :

MSVOA_L

ClientSampled :

S-01

Tot Ion: 43 Resp: 82084

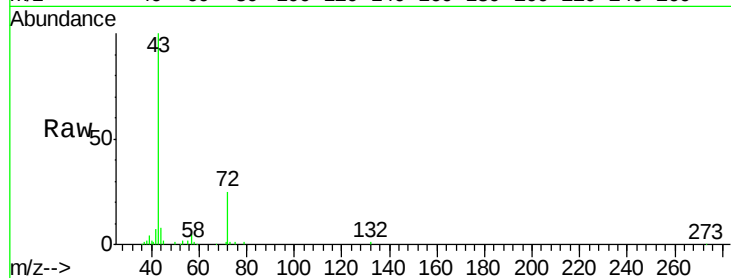
Ion Ratio Lower Upper

43 100

72 22.5 17.9 26.9

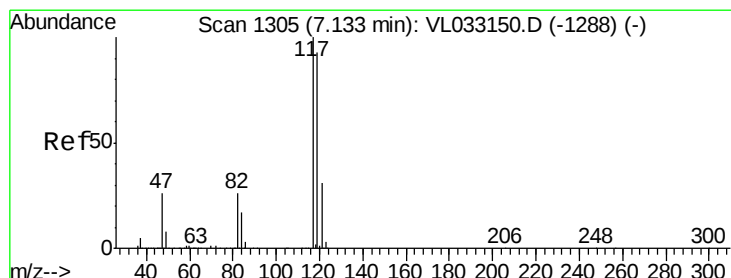
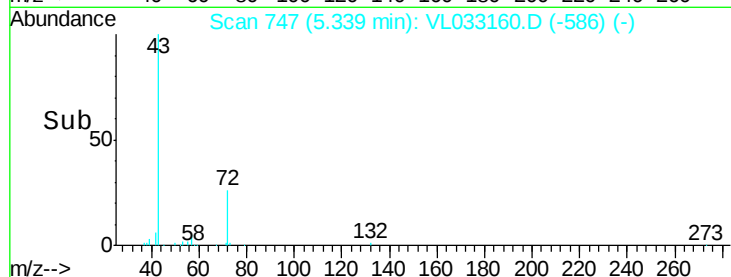
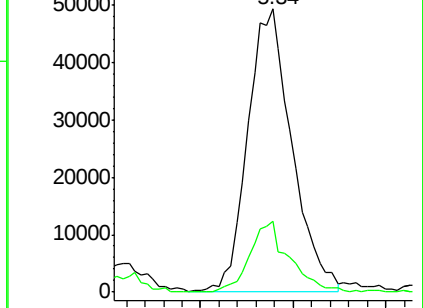
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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0



#35

Carbon Tetrachloride

Concen: 0.092 ppbv m

RT: 7.14 min Scan# 1306

Delta R.T. 0.01 min

Lab File: VL033160.D

Acq: 4 Feb 2019 18:34

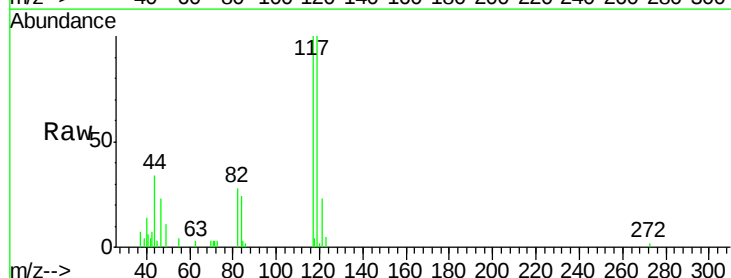
Tgt Ion: 117 Resp: 13177

Ion Ratio Lower Upper

117 100

119 100.4 76.6 114.8

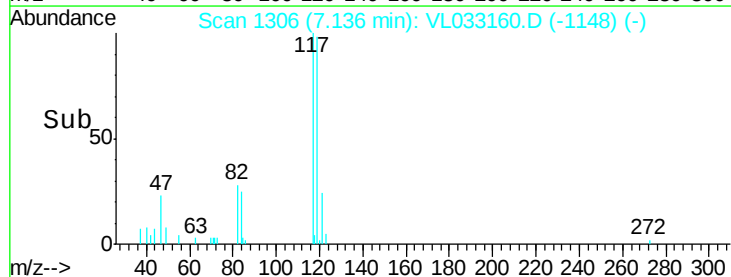
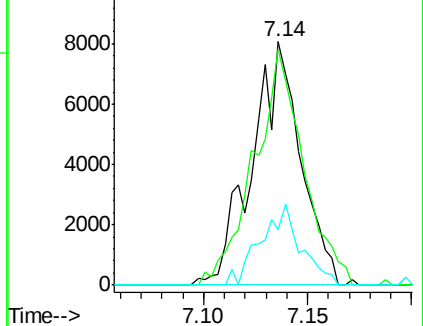
121 23.5 25.0 37.4#

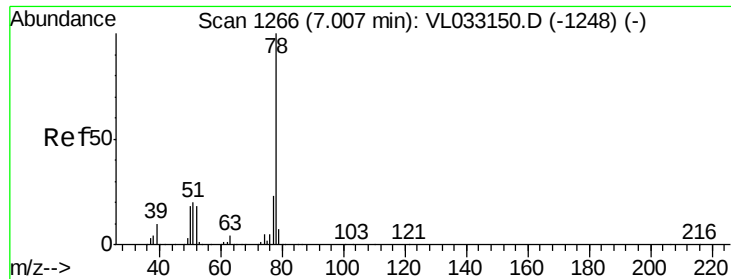


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V





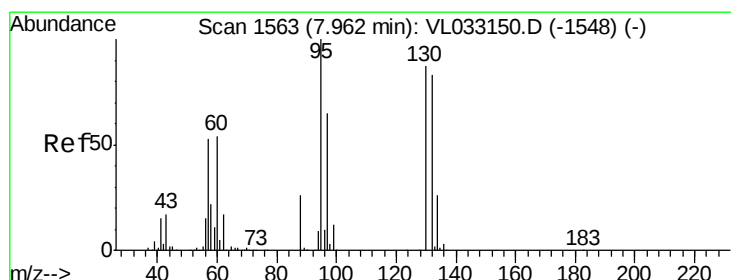
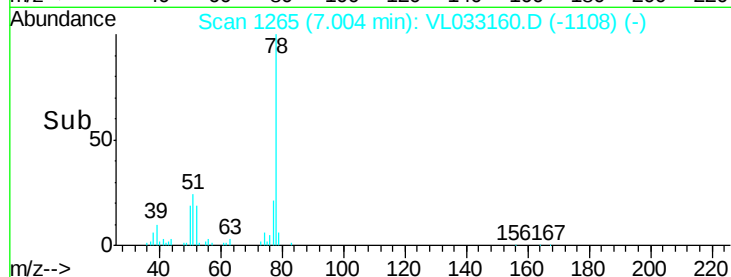
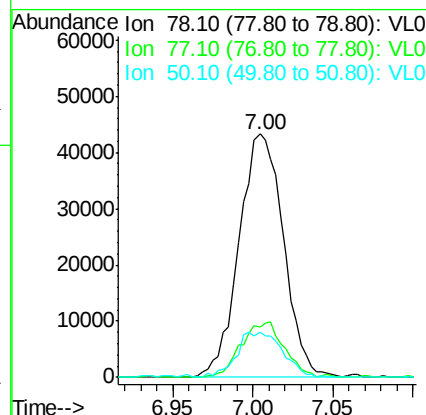
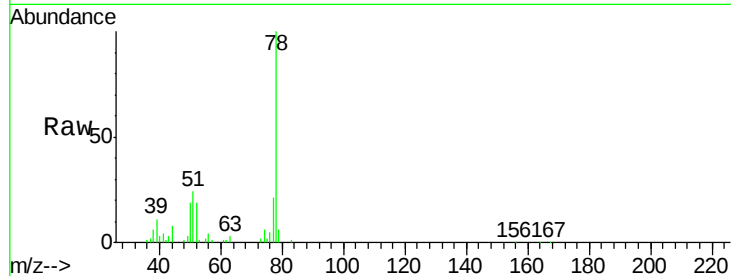
#36
Benzene
Concen: 0.360 ppbv
RT: 7.00 min Scan# 1265
Delta R.T. 0.00 min
Lab File: VL033160.D
Acq: 4 Feb 2019 18:34

Instrument :
MSVOA_L
ClientSampled :
S-01

Tot Ion	Ratio	Lower	Upper
78	100		
77	20.7	17.8	26.6
50	18.6	14.7	22.1

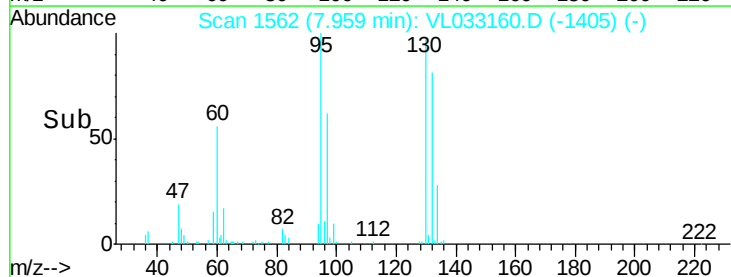
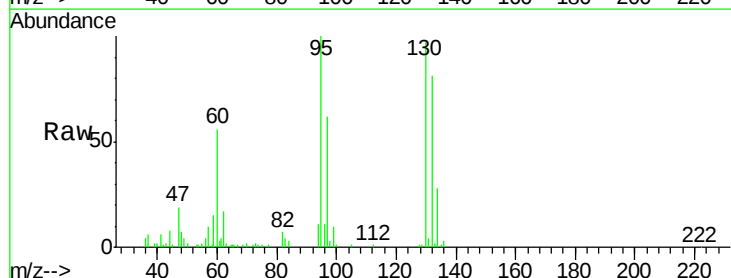
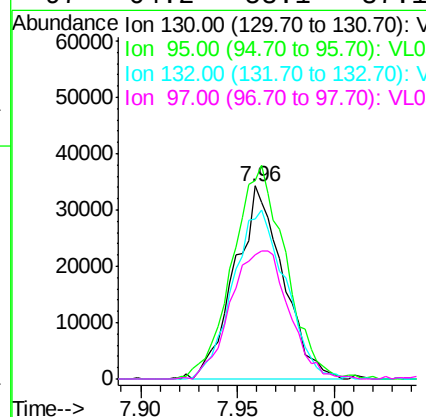
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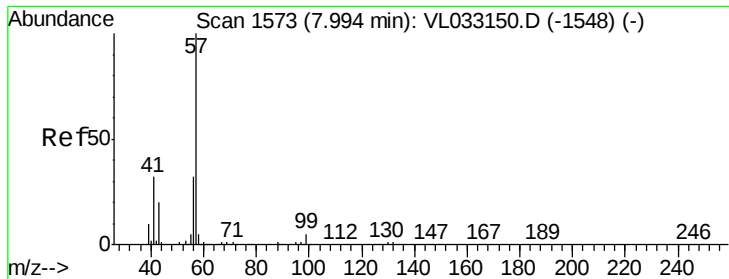
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#38
Trichloroethene
Concen: 0.720 ppbv
RT: 7.96 min Scan# 1562
Delta R.T. 0.00 min
Lab File: VL033160.D
Acq: 4 Feb 2019 18:34

Tgt Ion	Ratio	Lower	Upper
130	100		
95	101.8	91.6	137.4
132	82.6	79.0	118.4
97	64.2	58.1	87.1





#44

2,2,4-Trimethylpentane

Concen: 0.219 ppbv m

RT: 7.99 min Scan# 1571

Delta R.T. 0.00 min

Lab File: VL033160.D

Acq: 4 Feb 2019 18:34

Instrument :

MSVOA_L

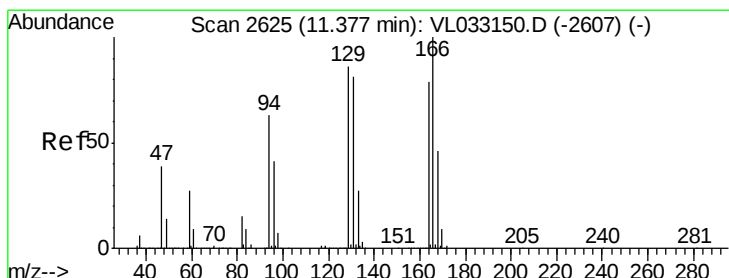
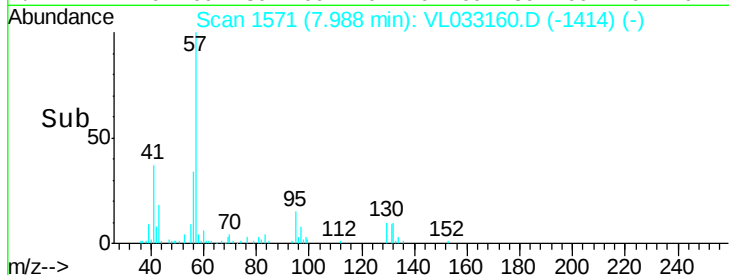
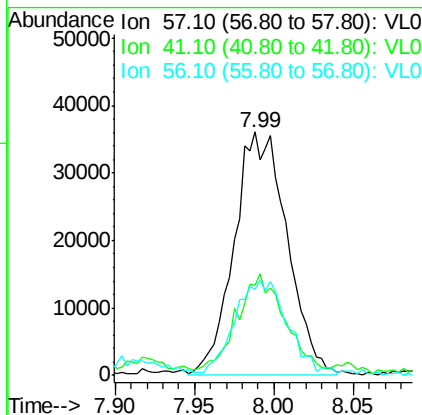
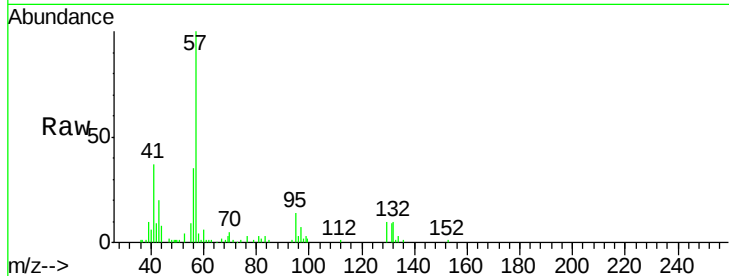
ClientSampleId :

S-01

Tot Ion:	57	Resp:	83488
Ion	Ratio	Lower	Upper
57	100		
41	40.8	24.6	36.8#
56	40.6	24.9	37.3#

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#52

Tetrachloroethene

Concen: 3.232 ppbv

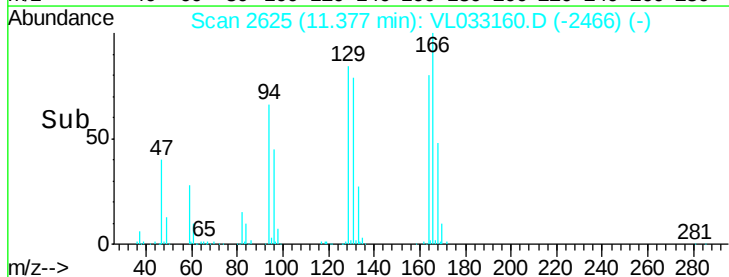
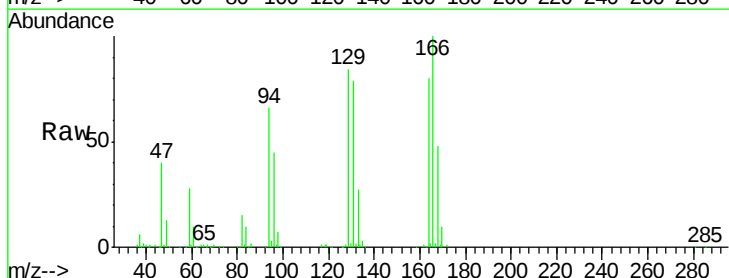
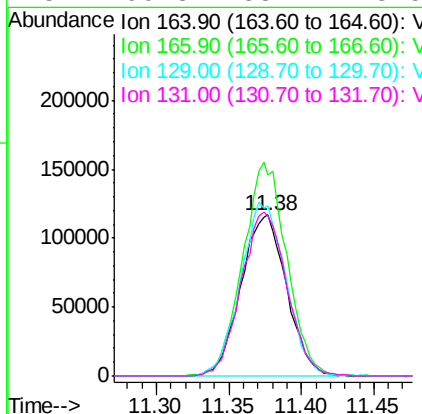
RT: 11.38 min Scan# 2625

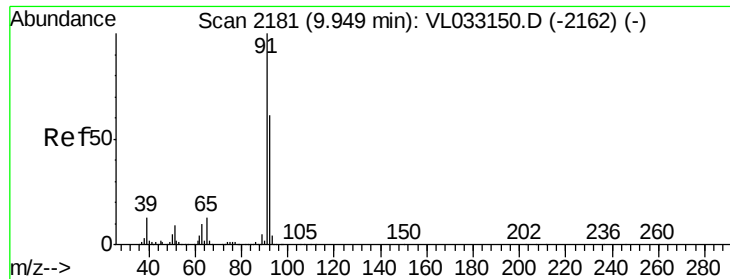
Delta R.T. 0.01 min

Lab File: VL033160.D

Acq: 4 Feb 2019 18:34

Tgt Ion:	164	Resp:	255197
Ion	Ratio	Lower	Upper
164	100		
166	124.4	98.6	148.0
129	105.4	86.3	129.5
131	99.3	83.7	125.5





#53

Toluene

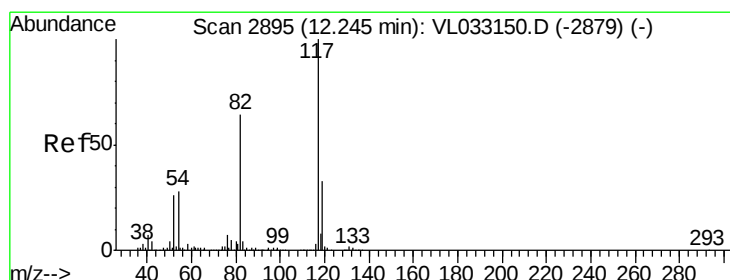
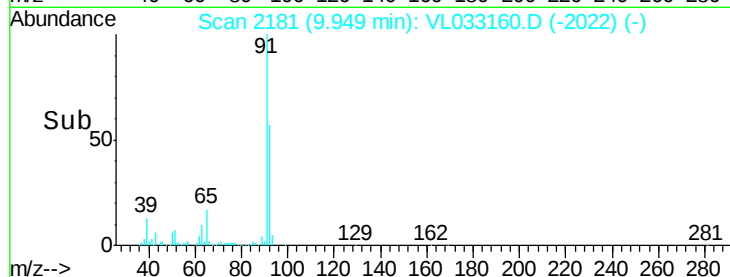
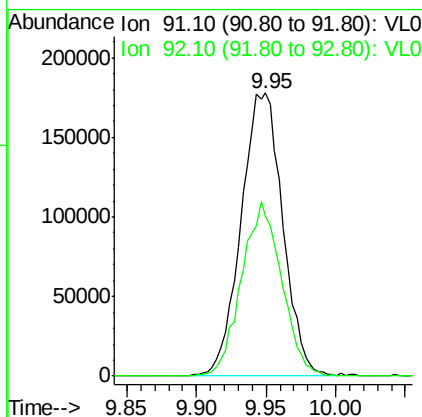
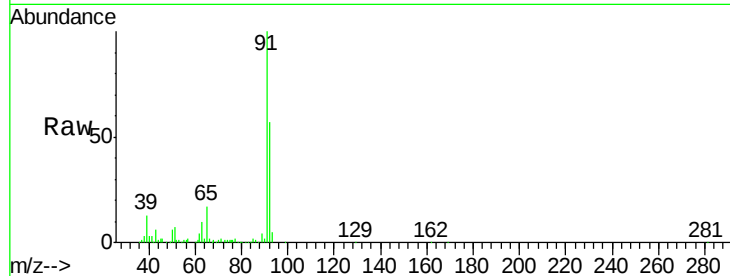
Concen: 1.368 ppbv m
RT: 9.95 min Scan# 2181
Delta R.T. 0.01 min
Lab File: VL033160.D
Acq: 4 Feb 2019 18:34

Instrument :
MSVOA_L
ClientSampled :
S-01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
91	100		369131		
92	59.6	48.9	73.3		

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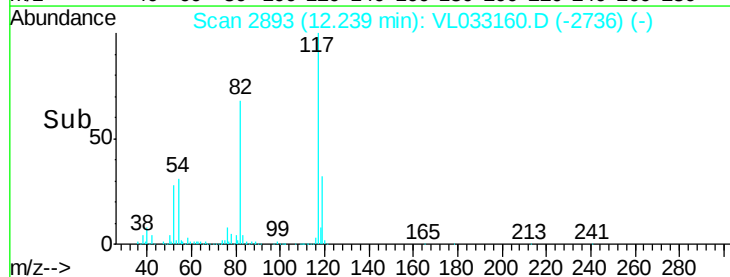
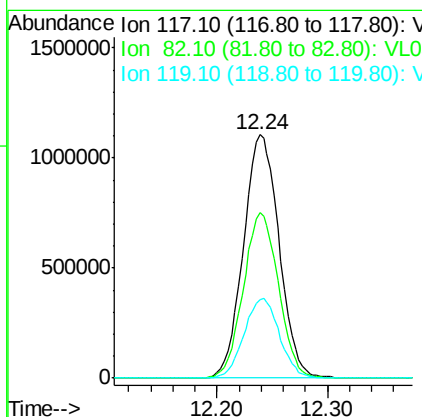
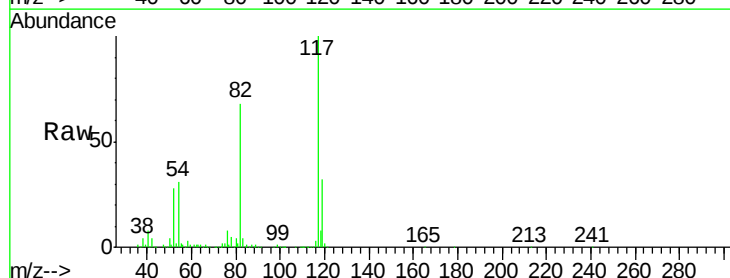


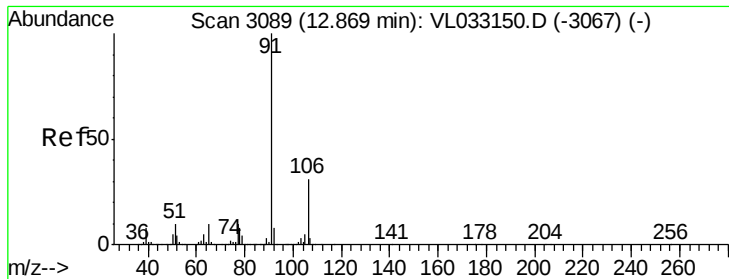
#55

Chlorobenzene-d5

Concen: 10.000 ppbv
RT: 12.24 min Scan# 2893
Delta R.T. 0.00 min
Lab File: VL033160.D
Acq: 4 Feb 2019 18:34

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
117	100		2468658		
82	67.6	49.3	73.9		
119	32.7	27.1	40.7		





#58

Ethyl Benzene

Concen: 0.161 ppbv m

RT: 12.87 min Scan# 3088

Delta R.T. 0.01 min

Lab File: VL033160.D

Acq: 4 Feb 2019 18:34

Instrument :

MSVOA_L

ClientSampleId :

S-01

Tot Ion: 91 Resp: 62614

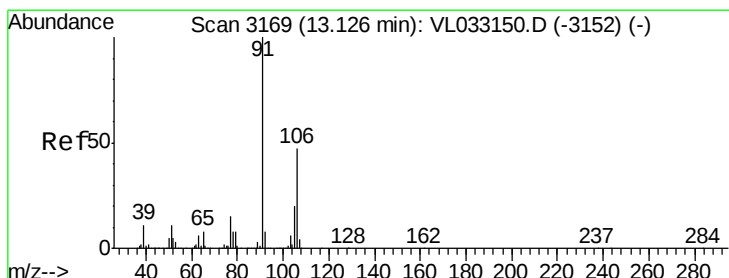
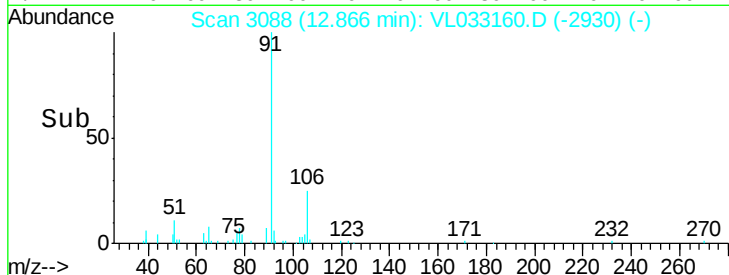
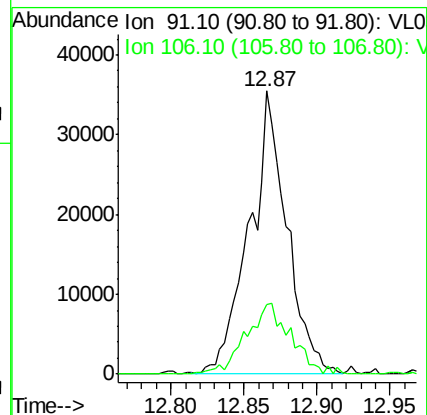
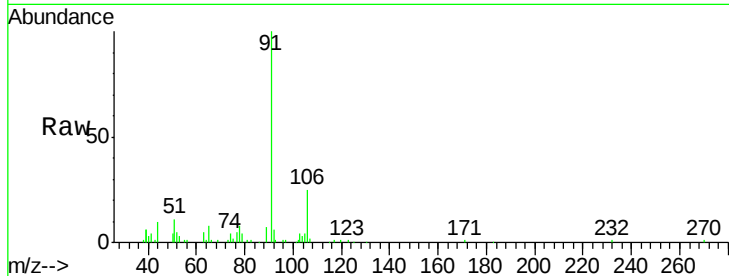
Ion Ratio Lower Upper

91 100

106 24.8 24.7 37.1

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#59

m/p-Xylene

Concen: 0.627 ppbv m

RT: 13.12 min Scan# 3168

Delta R.T. 0.00 min

Lab File: VL033160.D

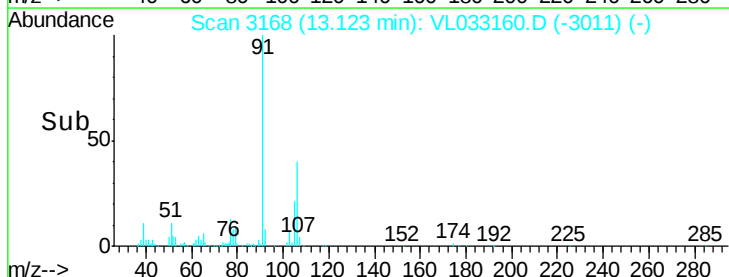
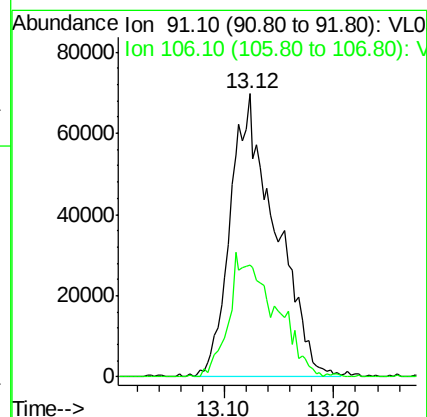
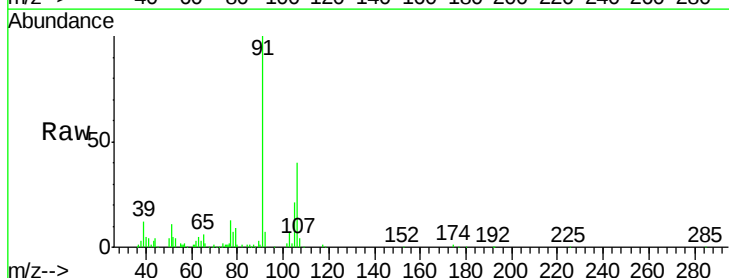
Acq: 4 Feb 2019 18:34

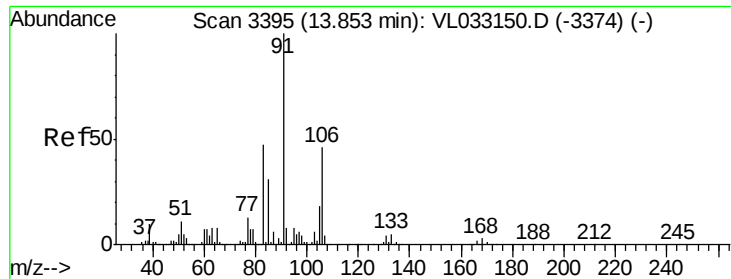
Tgt Ion: 91 Resp: 199573

Ion Ratio Lower Upper

91 100

106 0.0 37.6 56.4#





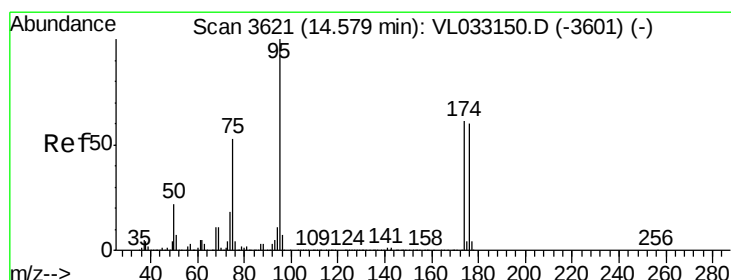
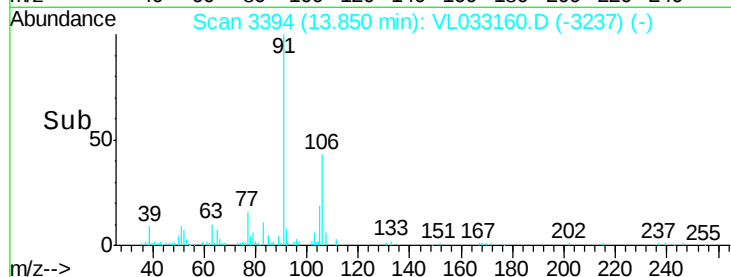
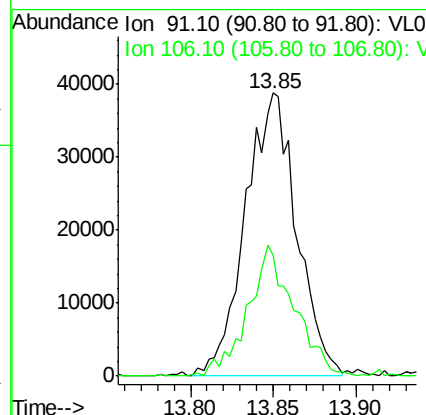
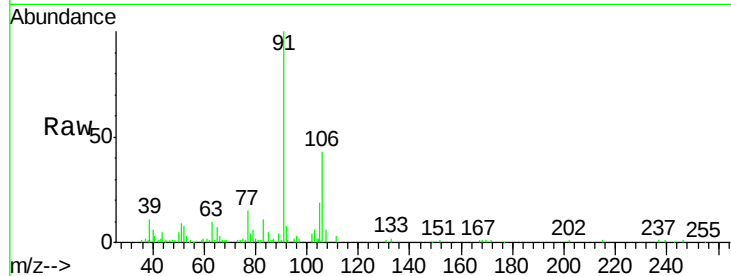
#60
o-Xylene
Concen: 0.285 ppbv
RT: 13.85 min Scan# 3394
Delta R.T. 0.00 min
Lab File: VL033160.D
Acq: 4 Feb 2019 18:34

Instrument :
MSVOA_L
ClientSampled :
S-01

Tot Ion: 91 Resp: 83683
Ion Ratio Lower Upper
91 100
106 42.0 23.2 69.5

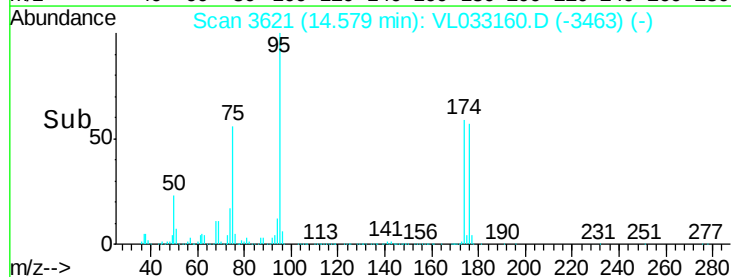
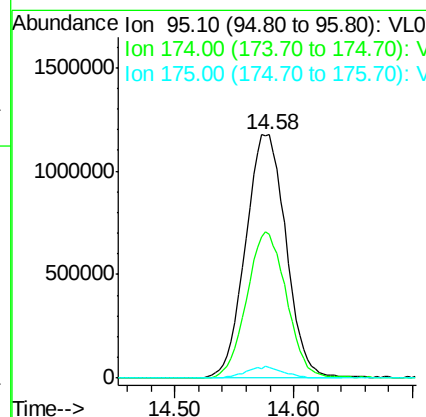
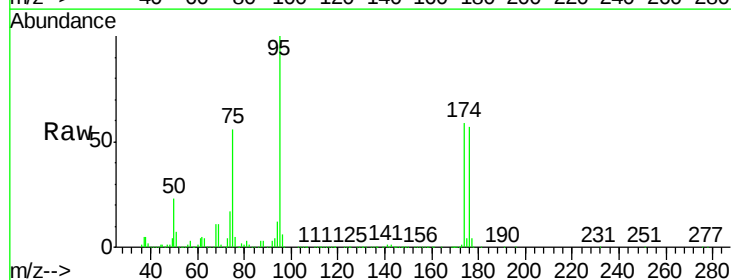
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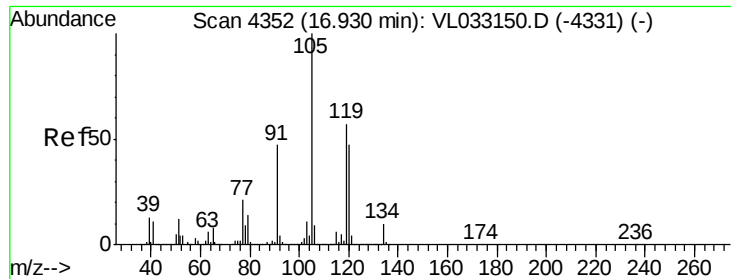
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#68
1-Bromo-4-Fluorobenzene
Concen: 15.048 ppbv
RT: 14.58 min Scan# 3621
Delta R.T. 0.01 min
Lab File: VL033160.D
Acq: 4 Feb 2019 18:34

Tgt Ion: 95 Resp: 2768494
Ion Ratio Lower Upper
95 100
174 59.1 49.2 73.8
175 4.3 3.7 5.5





#74
 1,2,4-Trimethylbenzene
 Concen: 0.271 ppbv
 RT: 16.93 min Scan# 4351
 Delta R.T. 0.00 min
 Lab File: VL033160.D
 Acq: 4 Feb 2019 18:34

Instrument :
 MSVOA_L
 ClientSampleId :
 S-01

Tot Ion	Ratio	Resp Lower	Upper
105	100		
120	45.1	38.2	57.4
91	16.4	35.0	52.4#
77	15.0	15.8	23.6#

Manual Integrations
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 2/5/2019 10:27:58 AM

