

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX091819\
 Data File : VX012506.D
 Acq On : 19 Sep 2019 04:38
 Operator : JC/SP
 Sample : K4830-12DL 5X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 48 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 S13-0282DL

Manual Integrations
 APPROVED

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 9/19/2019 1:06:48 PM

Quant Time: Sep 19 09:07:49 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X091719W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 17 15:27:10 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	174994	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	280325	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	244849	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	109952	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.05	65	118601	47.29	ug/l	0.00
Spiked Amount 50.000			Recovery	=	94.58%	
35) Dibromofluoromethane	5.49	113	83024	48.93	ug/l	0.00
Spiked Amount 50.000			Recovery	=	97.86%	
50) Toluene-d8	8.71	98	327337	52.12	ug/l	0.00
Spiked Amount 50.000			Recovery	=	104.24%	
62) 4-Bromofluorobenzene	11.13	95	126635	48.56	ug/l	0.00
Spiked Amount 50.000			Recovery	=	97.12%	
Target Compounds						
					Qvalue	
31) Cyclohexane	5.56	56	15649	9.034	ug/l	98
39) Methylcyclohexane	7.46	83	32034	19.342	ug/l	95
44) Trichloroethene	7.21	130	1499	1.052	ug/l	77
67) Ethyl Benzene	10.25	91	5598	0.806	ug/l	98
68) m/p-Xylenes	10.35	106	7034	2.784	ug/l	91
69) o-Xylene	10.70	106	1494	0.575	ug/l	93
73) Isopropylbenzene	11.01	105	122118	17.701	ug/l	98
78) n-propylbenzene	11.35	91	133024	17.300	ug/l	98
83) tert-Butylbenzene	11.76	119	4171	0.662	ug/l	94
84) 1,2,4-Trimethylbenzene	11.81	105	339510	56.200	ug/l	99
85) sec-Butylbenzene	11.94	105	23910	3.442	ug/l	81
86) p-Isopropyltoluene	12.06	119	6061	0.950	ug/l	84
89) n-Butylbenzene	12.38	91	5554m	0.976	ug/l	
95) Naphthalene	13.83	128	69646	9.186	ug/l	98

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

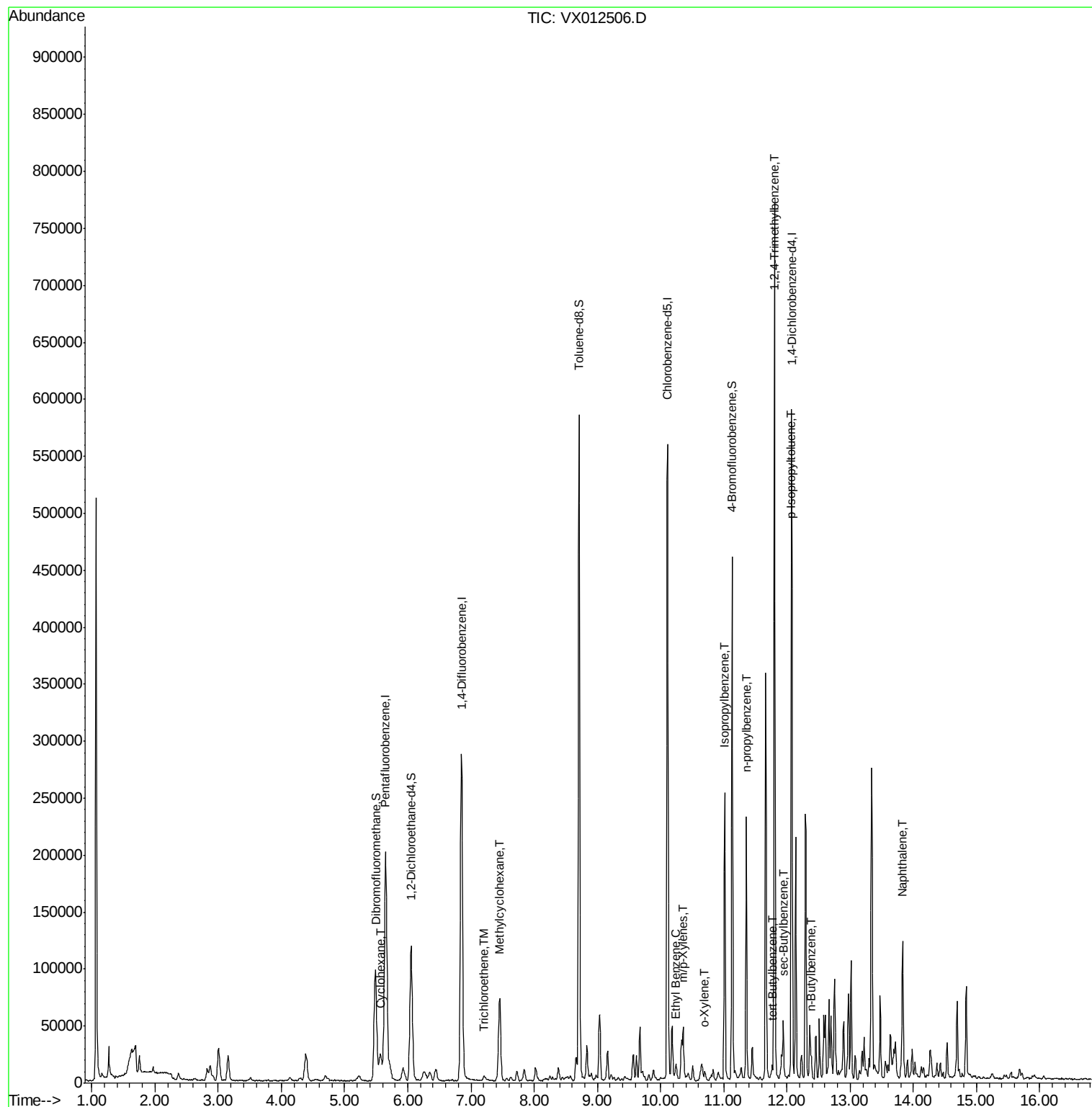
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX091819\
Data File : VX012506.D
Acq On : 19 Sep 2019 04:38
Operator : JC/SP
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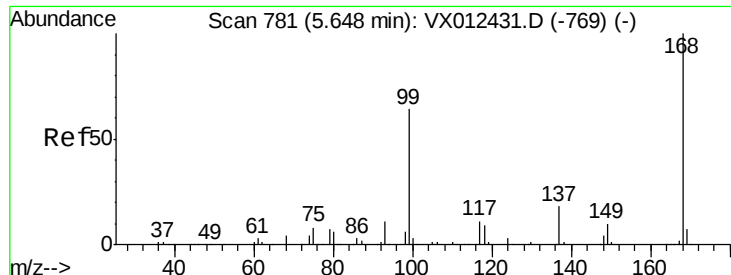
Instrument :
MSVOA_X
ClientSampleId :
S13-0282DL

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Quant Time: Sep 19 09:07:49 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X091719W.M
Quant Title : SW846 8260
QLast Update : Tue Sep 17 15:27:10 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.00 min

Lab File: VX012506.D

Acq: 19 Sep 2019 04:38

Instrument :

MSVOA_X

ClientSampleId :

S13-0282DL

Tot Ion:168 Resp: 174994

Ion Ratio Lower Upper

168 100

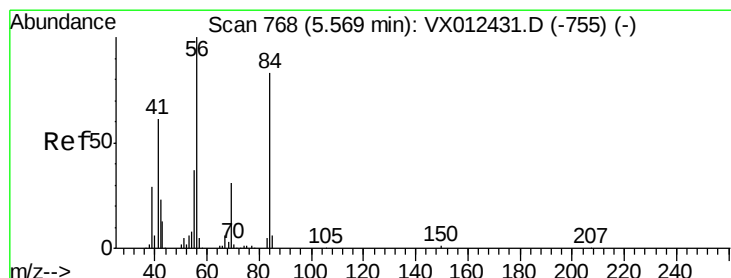
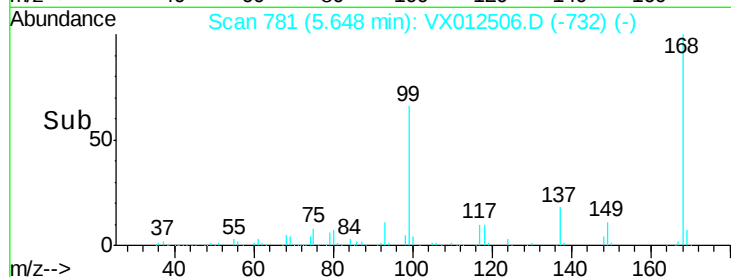
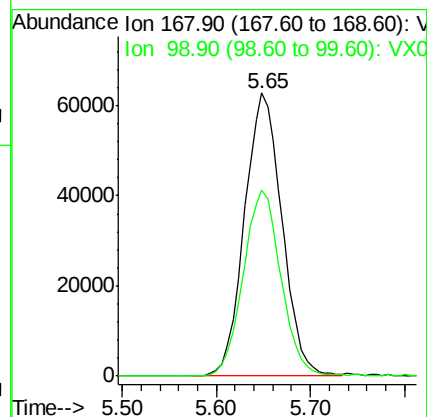
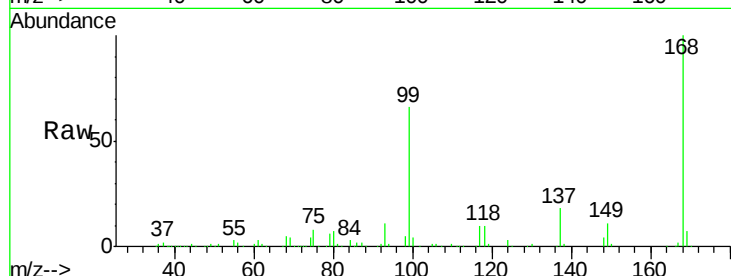
99 65.9 51.4 77.2

Manual Integrations

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#31

Cyclohexane

Concen: 9.034 ug/l

RT: 5.56 min Scan# 767

Delta R.T. -0.01 min

Lab File: VX012506.D

Acq: 19 Sep 2019 04:38

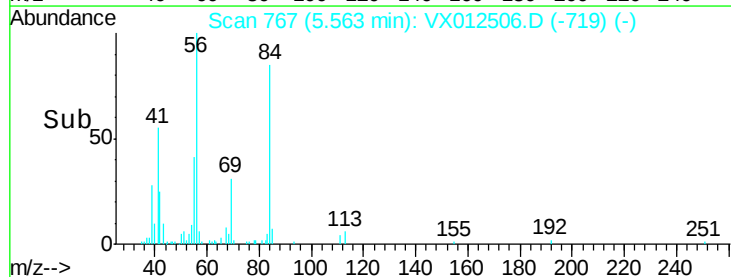
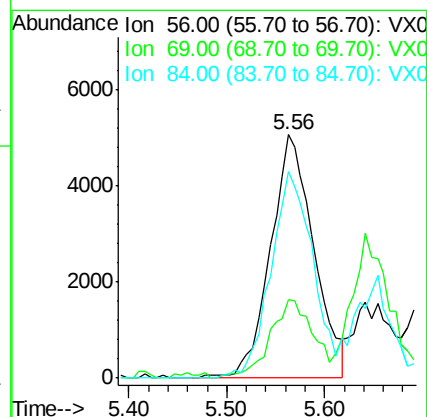
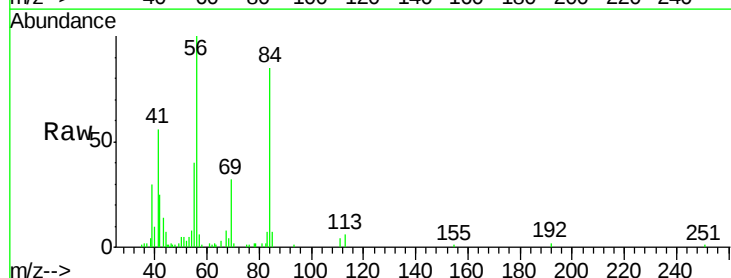
Tgt Ion: 56 Resp: 15649

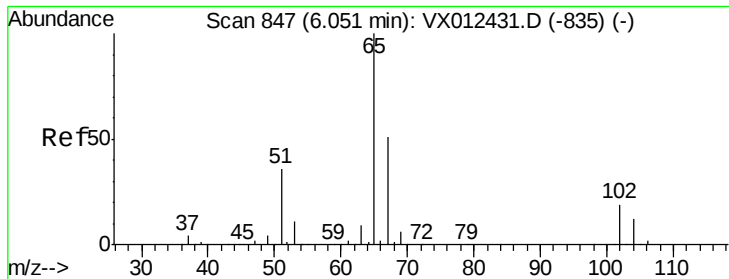
Ion Ratio Lower Upper

56 100

69 31.0 25.0 37.6

84 84.8 66.4 99.6





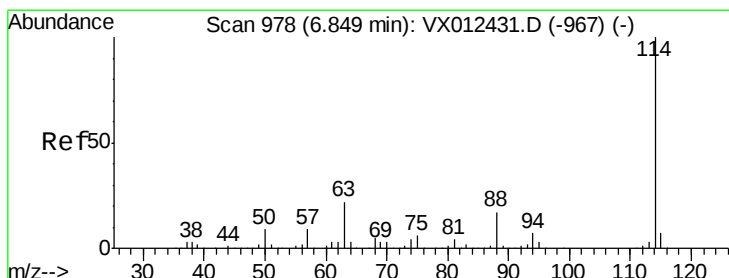
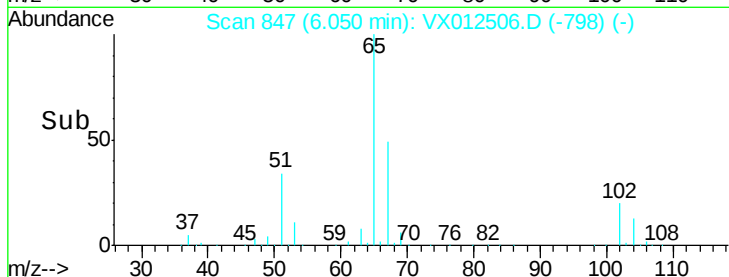
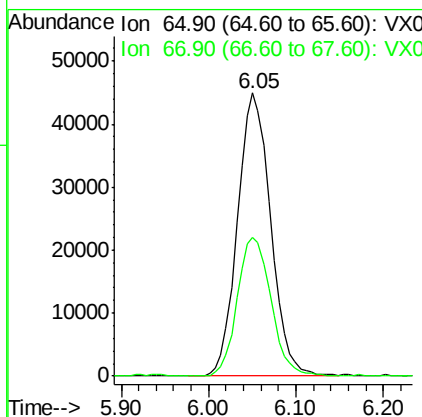
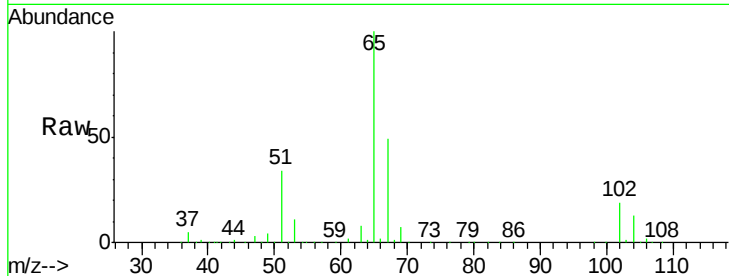
#33
 1,2-Dichloroethane-d4
 Concen: 47.289 ug/l
 RT: 6.05 min Scan# 847
 Delta R.T. -0.00 min
 Lab File: VX012506.D
 Acq: 19 Sep 2019 04:38

Instrument :
 MSVOA_X
 ClientSampled :
 S13-0282DL

Tot Ion	Ratio	Resp	Lower	Upper
65	100	118601		
67	50.0	0.0	101.2	

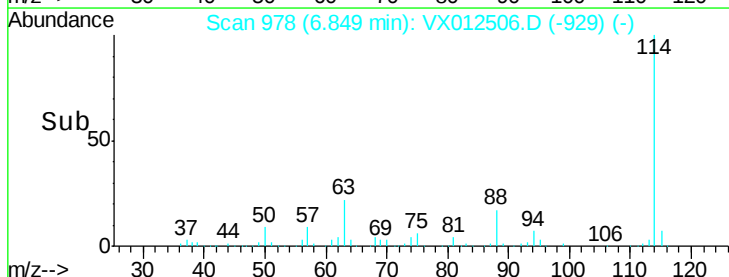
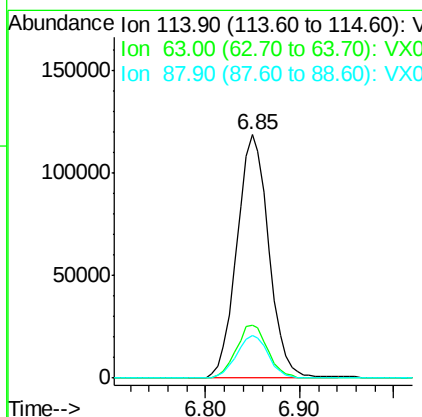
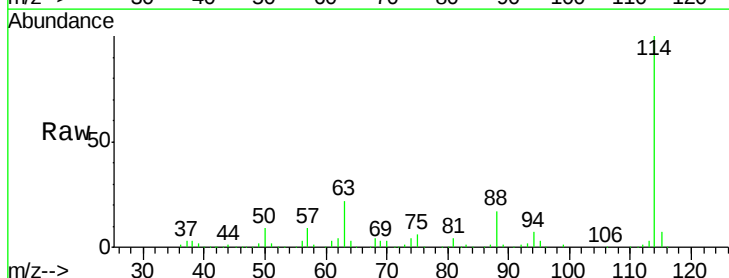
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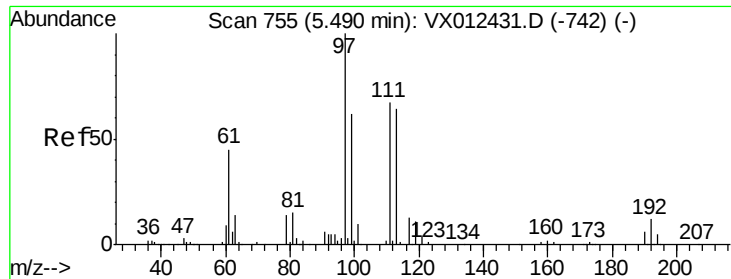
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. -0.00 min
 Lab File: VX012506.D
 Acq: 19 Sep 2019 04:38

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	280325		
63	21.8	0.0	43.2	
88	17.5	0.0	33.2	





#35

Dibromofluoromethane

Concen: 48.933 ug/l

RT: 5.49 min Scan# 755

Delta R.T. -0.00 min

Lab File: VX012506.D

Acq: 19 Sep 2019 04:38

Instrument :

MSVOA_X

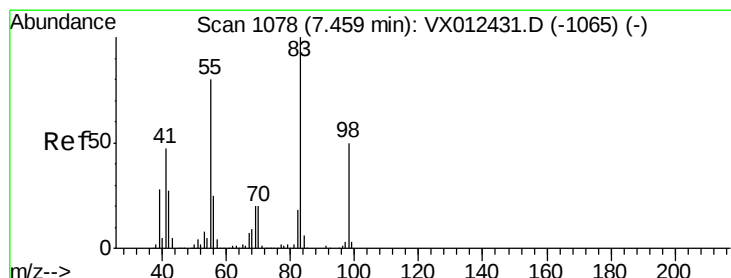
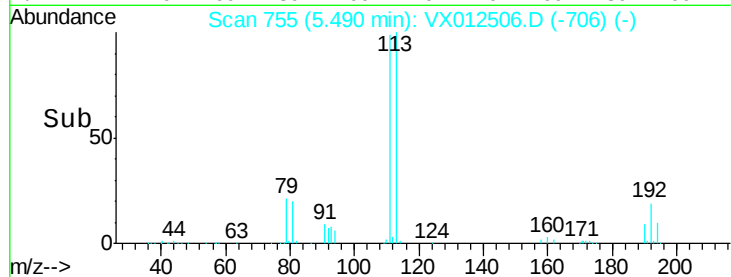
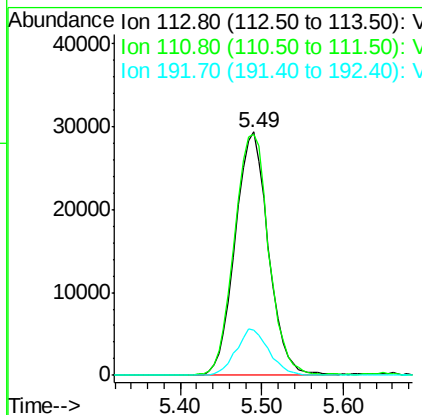
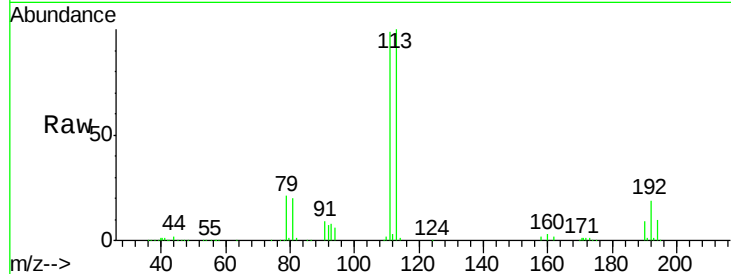
ClientSampleId :

S13-0282DL

Tot Ion:	113	Resp:	83024
Ion	Ratio	Lower	Upper
113	100		
111	102.6	83.4	125.2
192	18.9	14.4	21.6

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#39

Methylcyclohexane

Concen: 19.342 ug/l

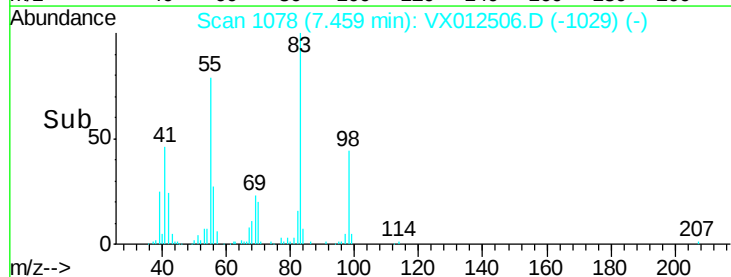
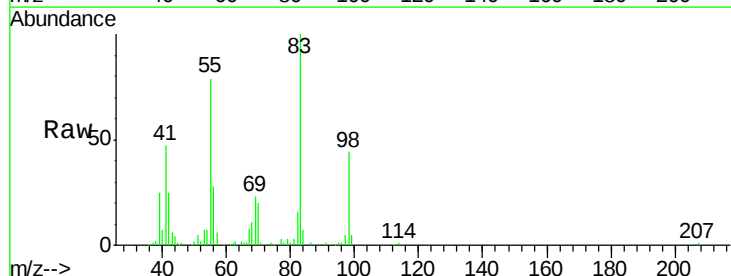
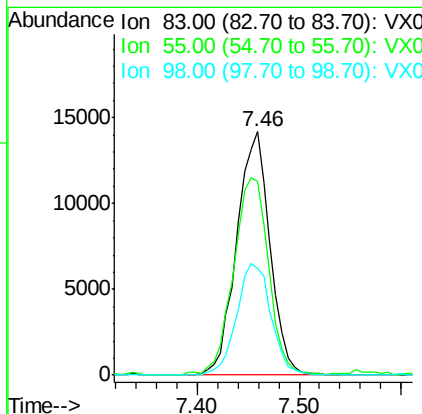
RT: 7.46 min Scan# 1078

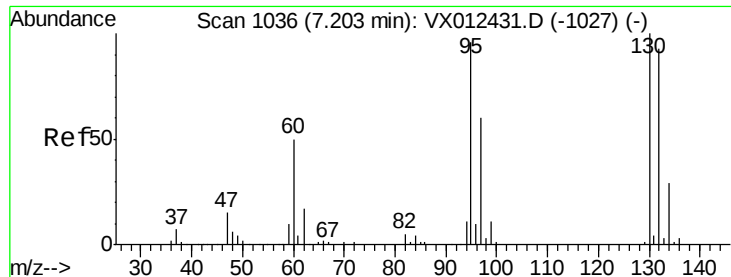
Delta R.T. -0.00 min

Lab File: VX012506.D

Acq: 19 Sep 2019 04:38

Tgt Ion:	83	Resp:	32034
Ion	Ratio	Lower	Upper
83	100		
55	78.6	64.4	96.6
98	43.8	40.1	60.1





#44

Trichloroethene

Concen: 1.052 ug/l

RT: 7.21 min Scan# 1038

Delta R.T. 0.01 min

Lab File: VX012506.D

Acq: 19 Sep 2019 04:38

Instrument :

MSVOA_X

ClientSampleId :

S13-0282DL

Tot Ion:130 Resp: 1499

Ion Ratio Lower Upper

130 100

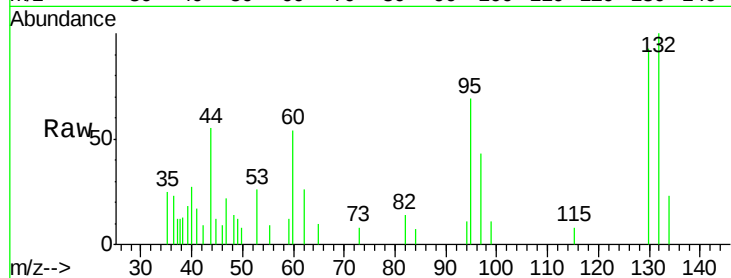
95 73.9 0.0 193.0

Manual Integrations

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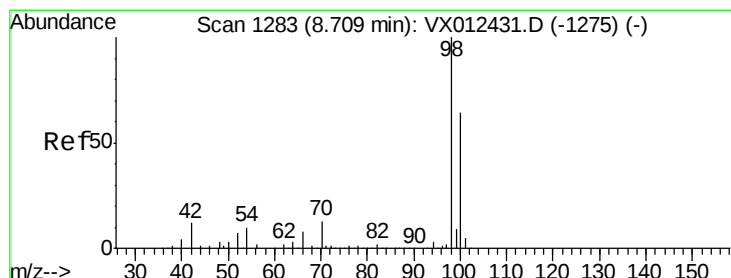
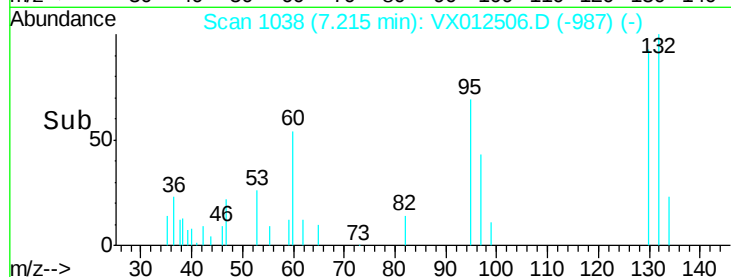
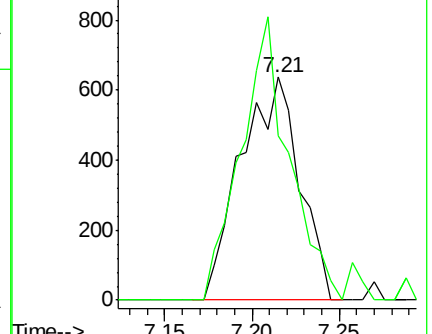
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Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#50

Toluene-d8

Concen: 52.122 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX012506.D

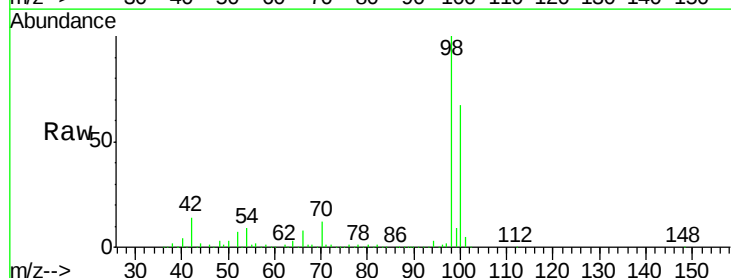
Acq: 19 Sep 2019 04:38

Tgt Ion: 98 Resp: 327337

Ion Ratio Lower Upper

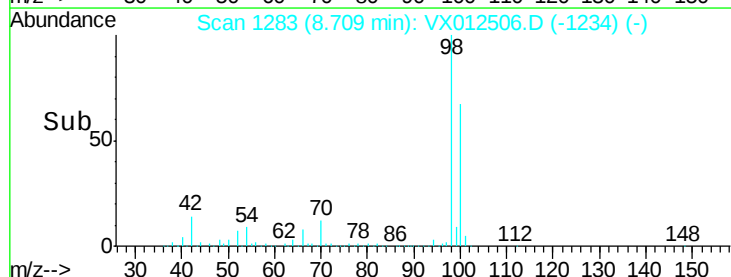
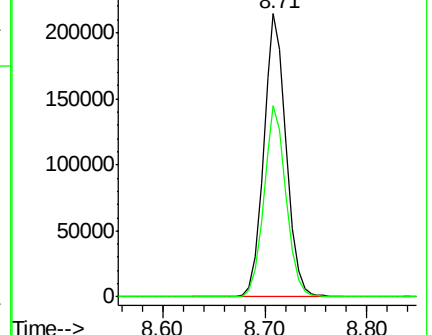
98 100

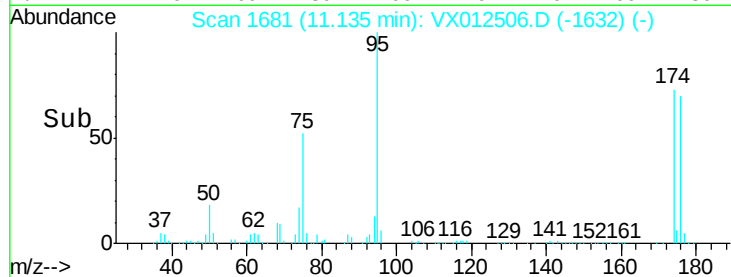
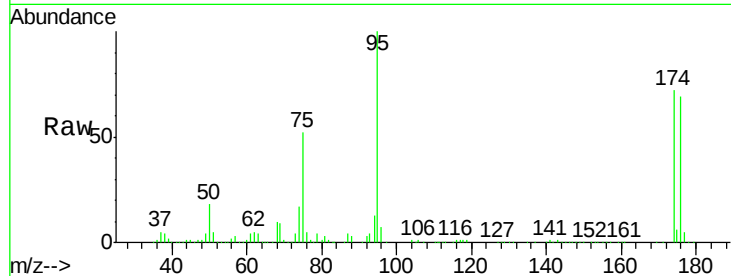
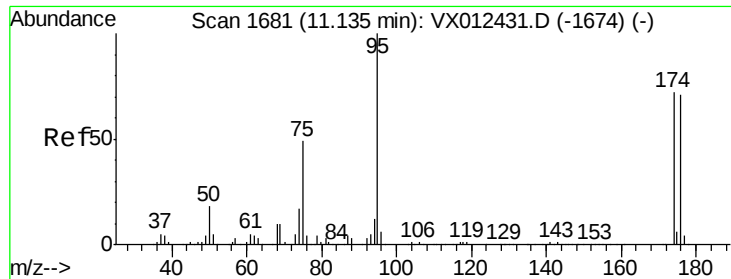
100 66.9 53.4 80.2



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0





#62

4-Bromofluorobenzene

Concen: 48.564 ug/l

RT: 11.13 min Scan# 1681

Delta R.T. -0.00 min

Lab File: VX012506.D

Acq: 19 Sep 2019 04:38

Instrument :

MSVOA_X

ClientSampled :

S13-0282DL

Tot Ion: 95 Resp: 126635

Ion Ratio Lower Upper

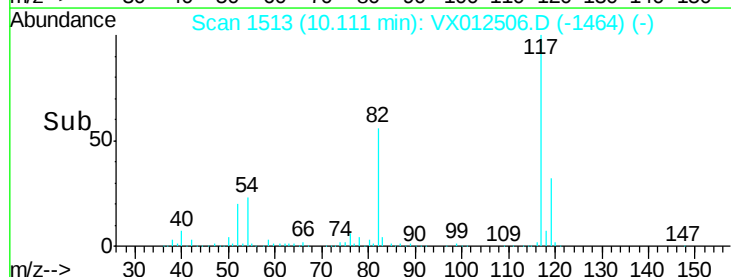
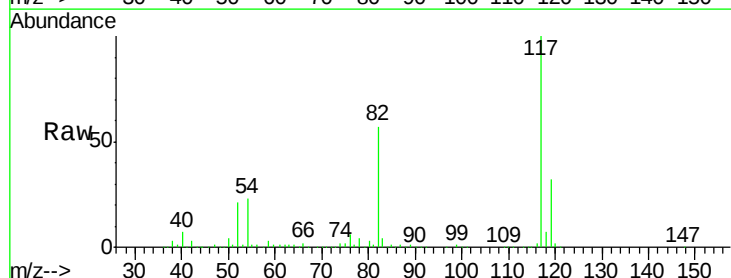
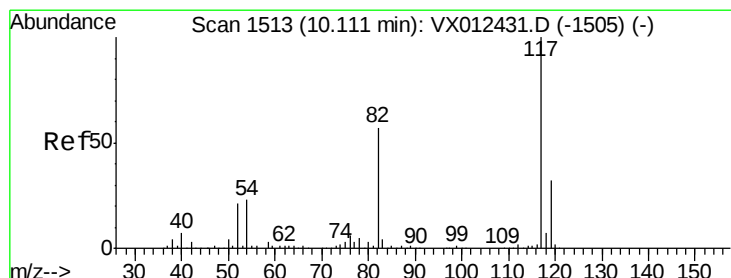
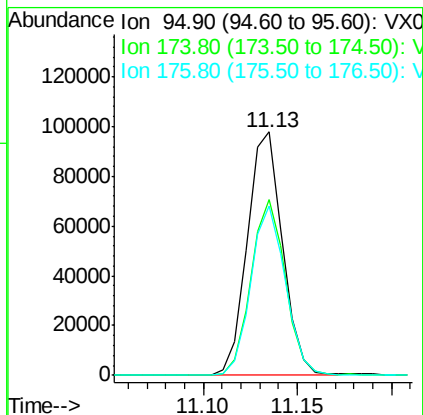
95 100

174 70.9 0.0 140.0

176 68.4 0.0 135.4

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#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VX012506.D

Acq: 19 Sep 2019 04:38

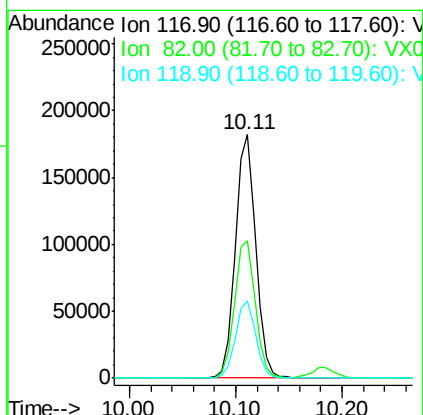
Tgt Ion: 117 Resp: 244849

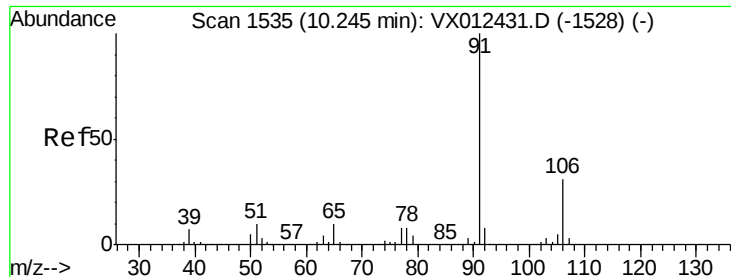
Ion Ratio Lower Upper

117 100

82 56.5 45.9 68.9

119 31.8 25.3 37.9





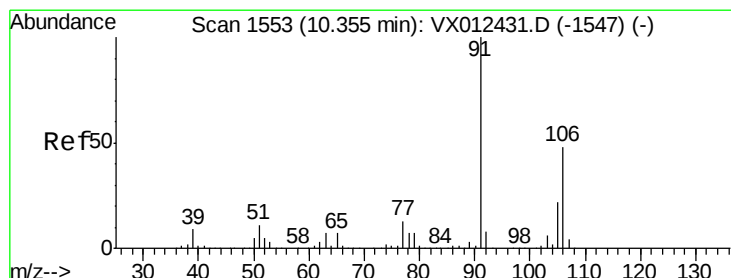
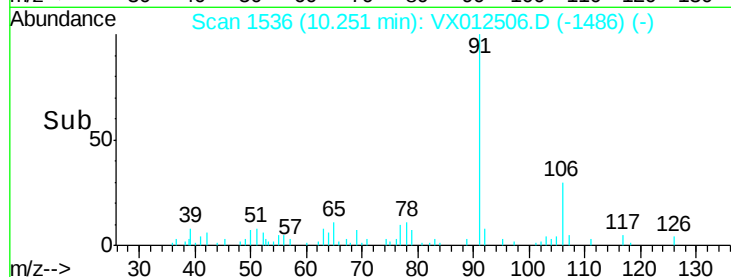
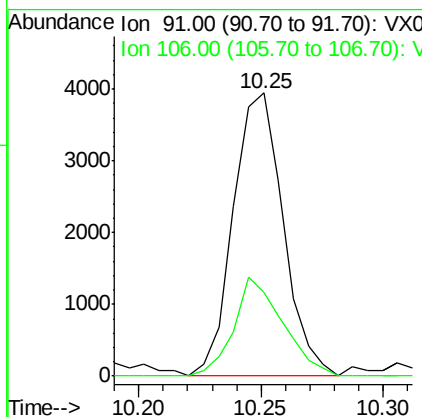
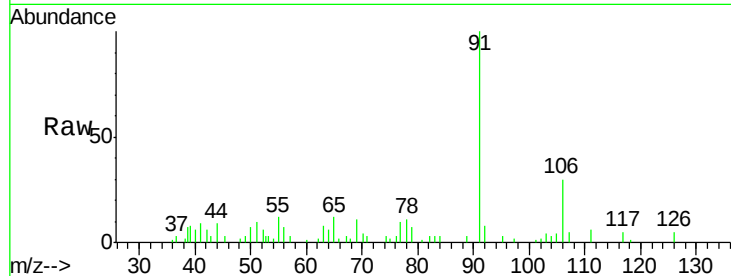
#67
Ethyl Benzene
Concen: 0.806 ug/l
RT: 10.25 min Scan# 1536
Delta R.T. 0.01 min
Lab File: VX012506.D
Acq: 19 Sep 2019 04:38

Instrument :
MSVOA_X
ClientSampleId :
S13-0282DL

Tot Ion: 91 Resp: 5598
Ion Ratio Lower Upper
91 100
106 29.7 24.6 37.0

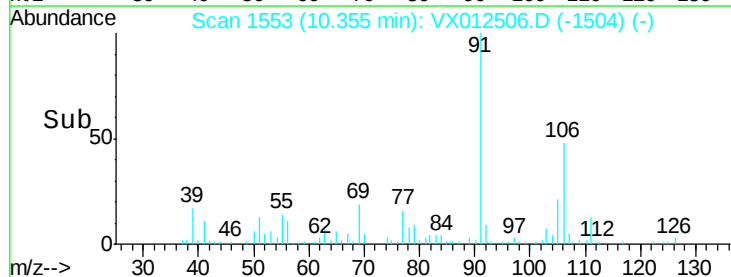
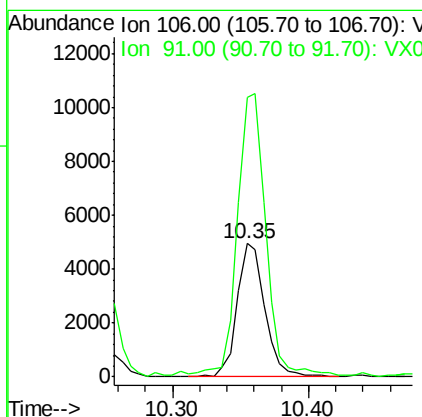
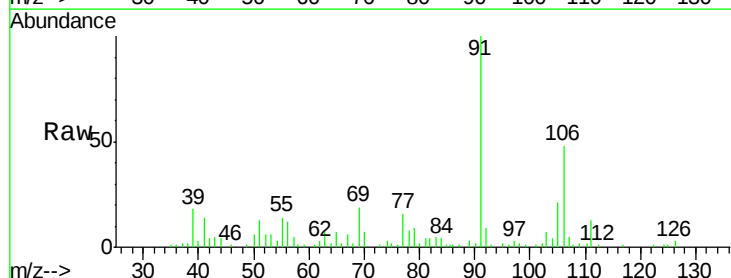
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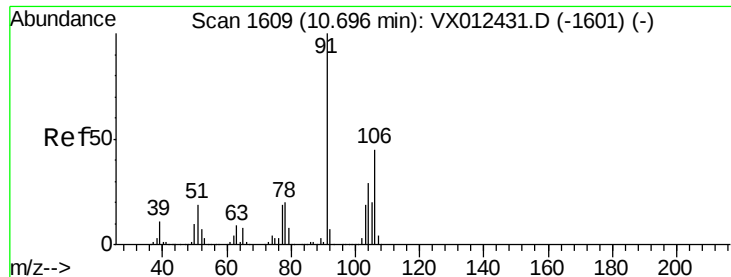
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#68
m/p-Xylenes
Concen: 2.784 ug/l
RT: 10.35 min Scan# 1553
Delta R.T. -0.00 min
Lab File: VX012506.D
Acq: 19 Sep 2019 04:38

Tgt Ion: 106 Resp: 7034
Ion Ratio Lower Upper
106 100
91 221.7 166.6 250.0





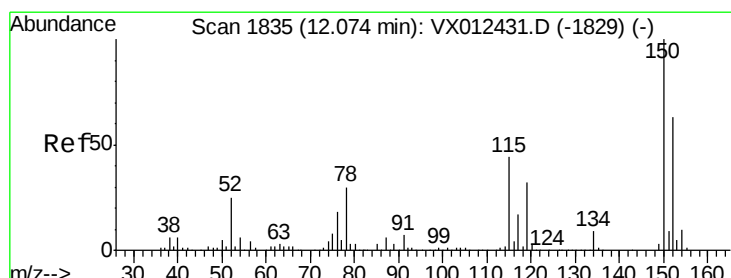
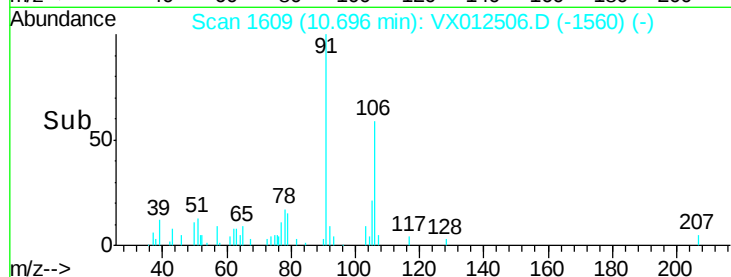
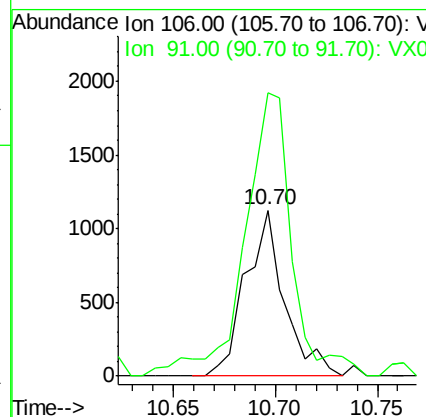
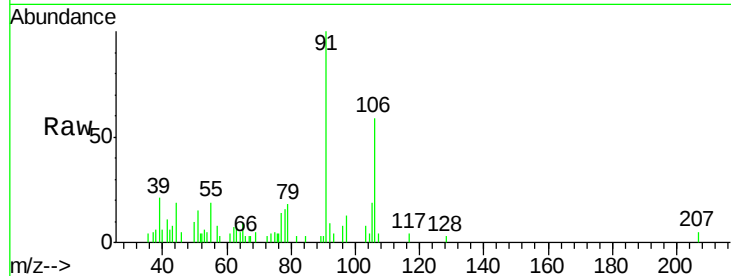
#69
o-Xylene
Concen: 0.575 ug/l
RT: 10.70 min Scan# 1609
Delta R.T. -0.00 min
Lab File: VX012506.D
Acq: 19 Sep 2019 04:38

Instrument :
MSVOA_X
ClientSampled :
S13-0282DL

Tot Ion:106 Resp: 1494
Ion Ratio Lower Upper
106 100
91 207.0 109.4 328.2

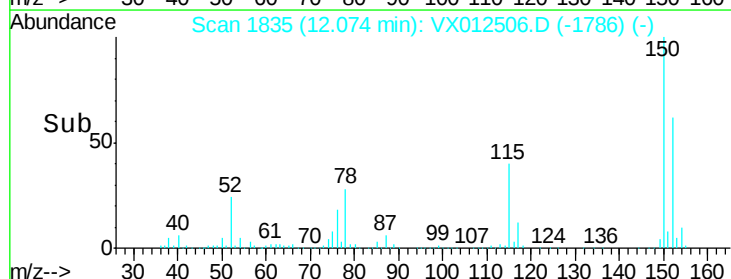
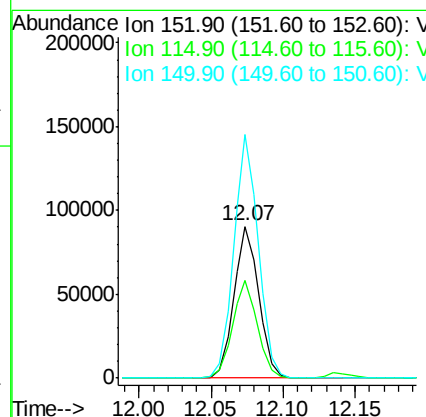
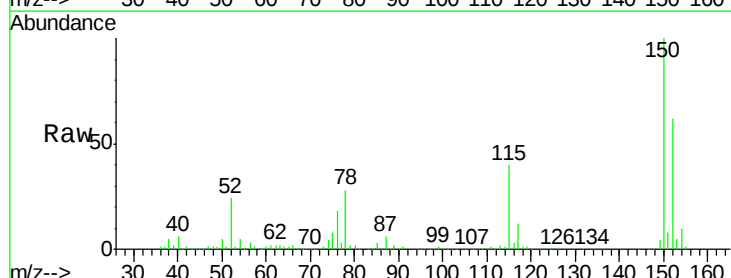
Manual Integrations
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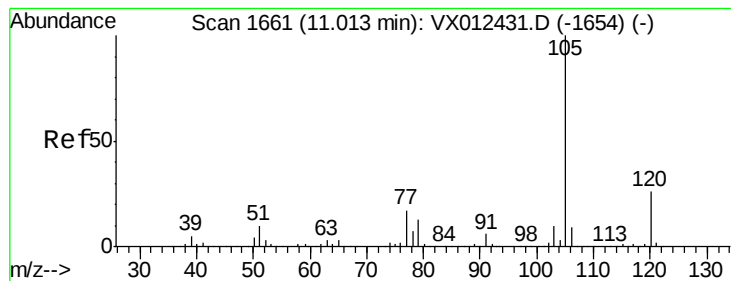
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#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. -0.00 min
Lab File: VX012506.D
Acq: 19 Sep 2019 04:38

Tgt Ion:152 Resp: 109952
Ion Ratio Lower Upper
152 100
115 64.5 44.1 132.3
150 158.0 0.0 343.8





#73

Isopropylbenzene

Concen: 17.701 ug/l

RT: 11.01 min Scan# 1661

Delta R.T. -0.00 min

Lab File: VX012506.D

Acq: 19 Sep 2019 04:38

Instrument :

MSVOA_X

ClientSampled :

S13-0282DL

Tot Ion: 105 Resp: 122118

Ion Ratio Lower Upper

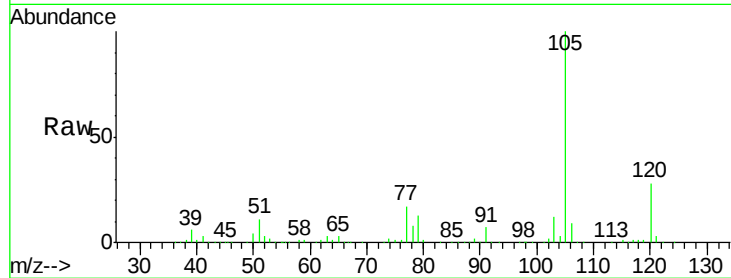
105 100

120 26.6 12.9 38.7

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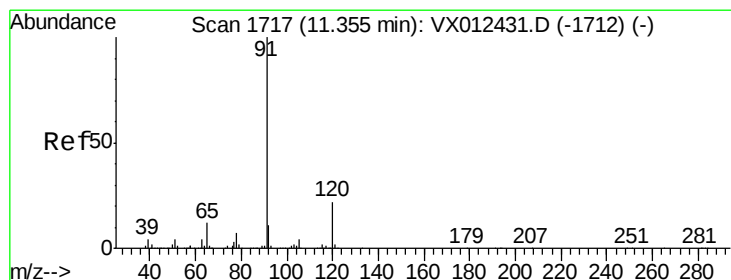
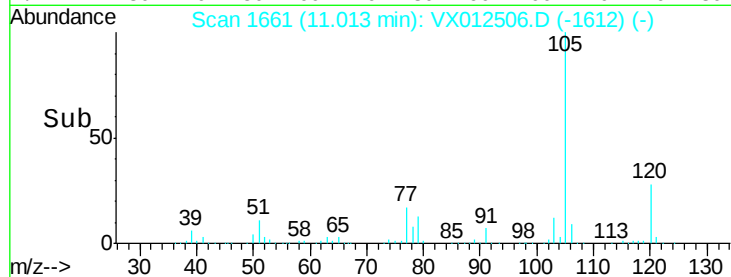
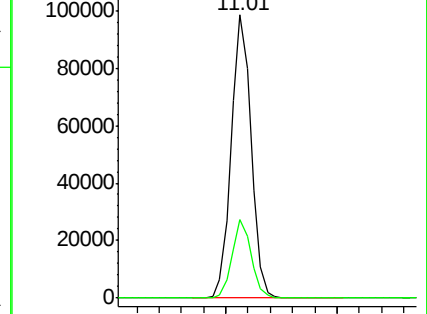
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#78

n-propylbenzene

Concen: 17.300 ug/l

RT: 11.35 min Scan# 1717

Delta R.T. -0.00 min

Lab File: VX012506.D

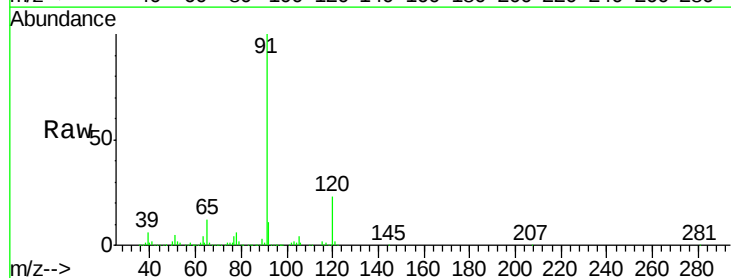
Acq: 19 Sep 2019 04:38

Tgt Ion: 91 Resp: 133024

Ion Ratio Lower Upper

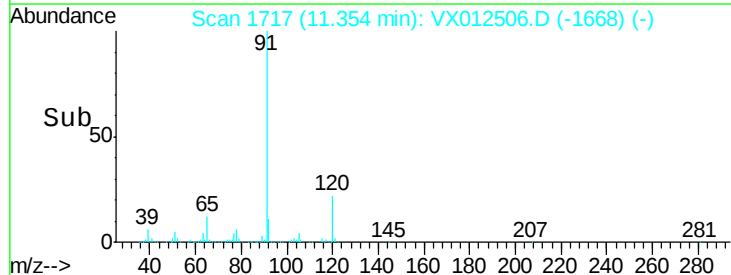
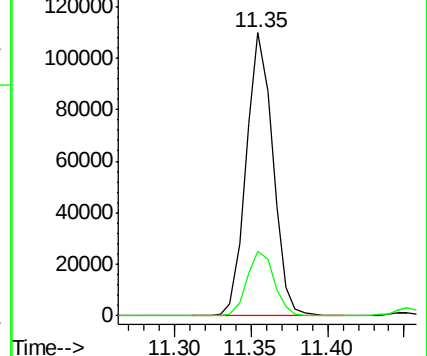
91 100

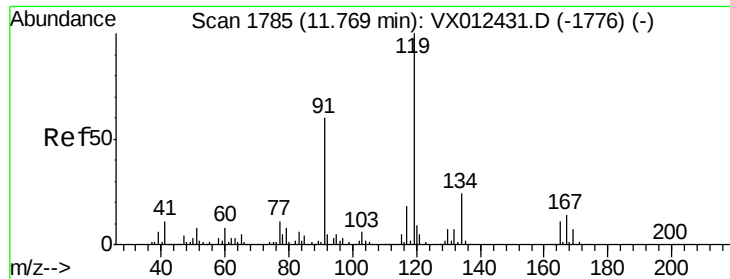
120 23.4 11.3 33.8



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 120.00 (119.70 to 120.70): V





#83

tert-Butylbenzene

Concen: 0.662 ug/l

RT: 11.76 min Scan# 1784

Delta R.T. -0.01 min

Lab File: VX012506.D

Acq: 19 Sep 2019 04:38

Instrument :

MSVOA_X

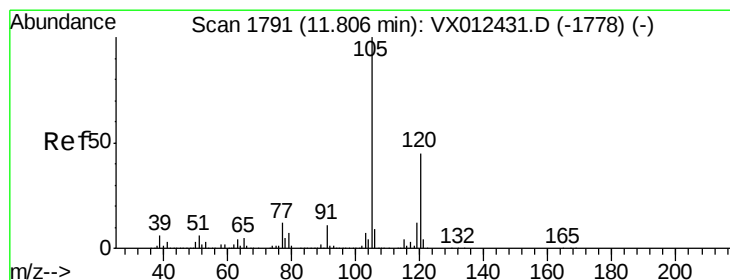
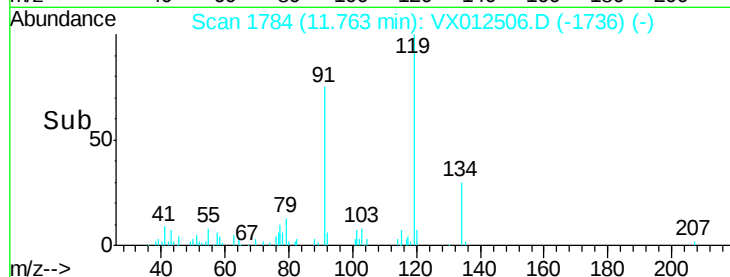
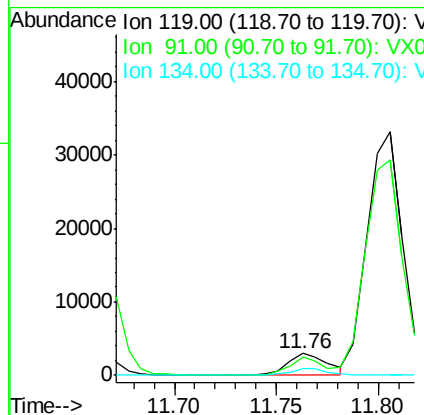
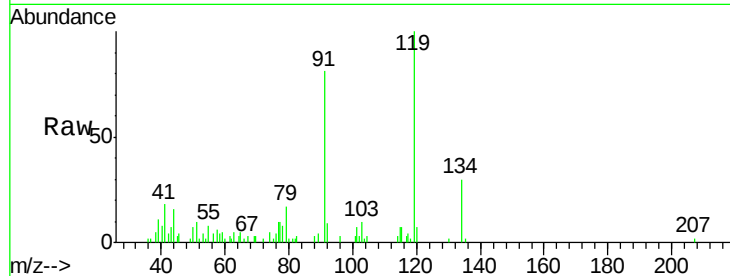
ClientSampleId :

S13-0282DL

Tot Ion:	119	Resp:	4171
Ion	Ratio	Lower	Upper
119	100		
91	64.3	30.0	90.0
134	26.8	11.3	33.9

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#84

1,2,4-Trimethylbenzene

Concen: 56.200 ug/l

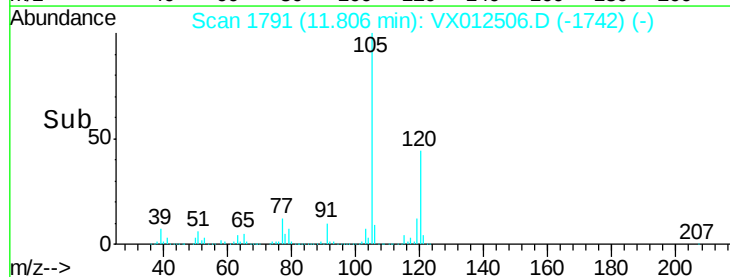
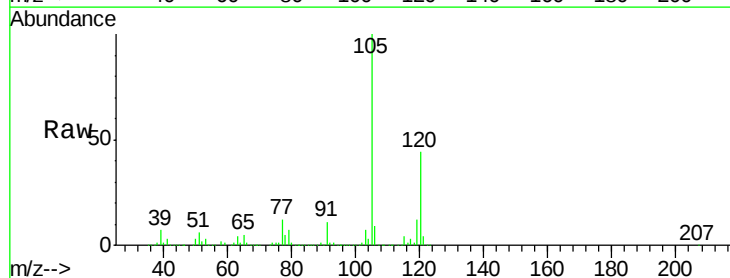
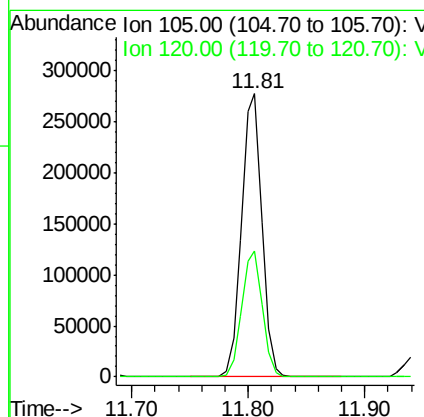
RT: 11.81 min Scan# 1791

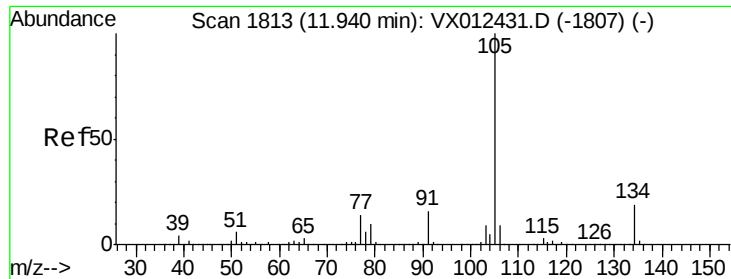
Delta R.T. -0.00 min

Lab File: VX012506.D

Acq: 19 Sep 2019 04:38

Tgt Ion:	105	Resp:	339510
Ion	Ratio	Lower	Upper
105	100		
120	44.9	22.2	66.6





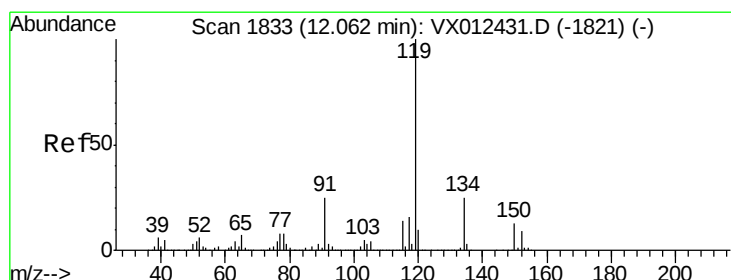
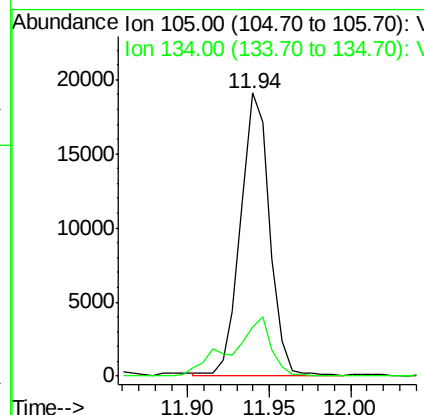
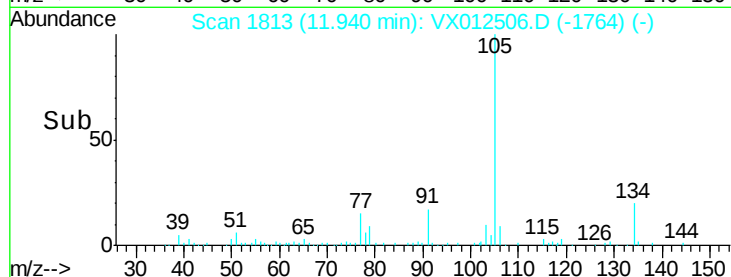
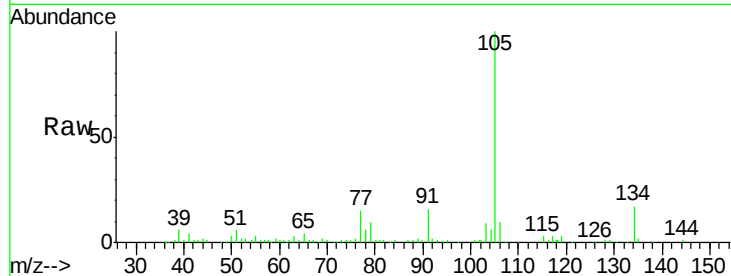
#85
 sec-Butylbenzene
 Concen: 3.442 ug/l
 RT: 11.94 min Scan# 1813
 Delta R.T. -0.00 min
 Lab File: VX012506.D
 Acq: 19 Sep 2019 04:38

Instrument :
 MSVOA_X
 ClientSampleId :
 S13-0282DL

Tot Ion	Ratio	Lower	Upper
105	100		
134	28.5	9.8	29.4

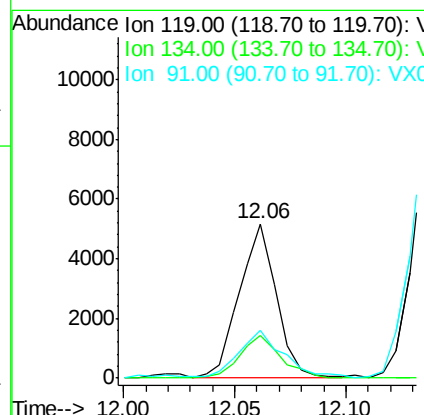
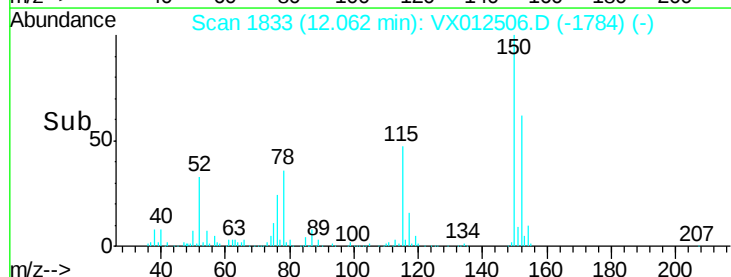
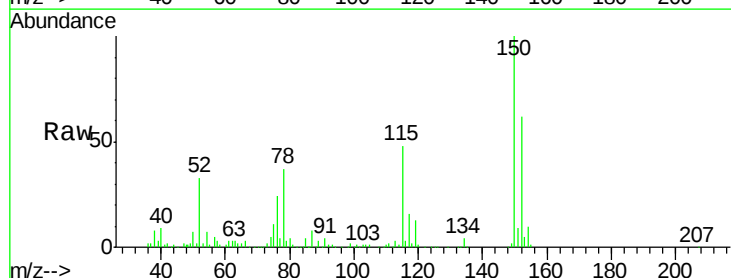
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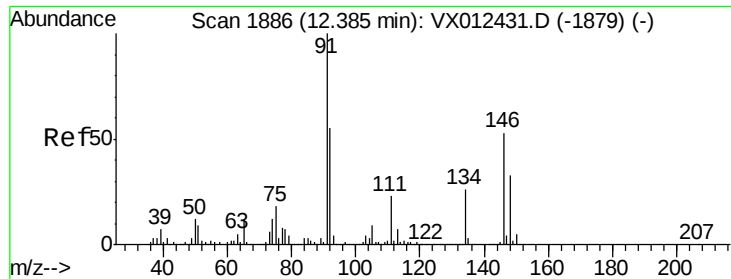
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#86
 p-Isopropyltoluene
 Concen: 0.950 ug/l
 RT: 12.06 min Scan# 1833
 Delta R.T. -0.00 min
 Lab File: VX012506.D
 Acq: 19 Sep 2019 04:38

Tgt Ion	Ratio	Lower	Upper
119	100		
134	30.5	12.7	38.1
91	37.1	12.8	38.4





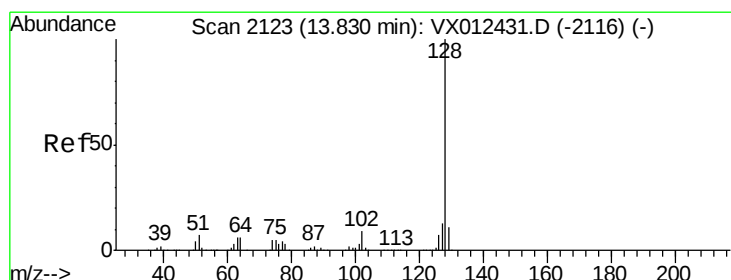
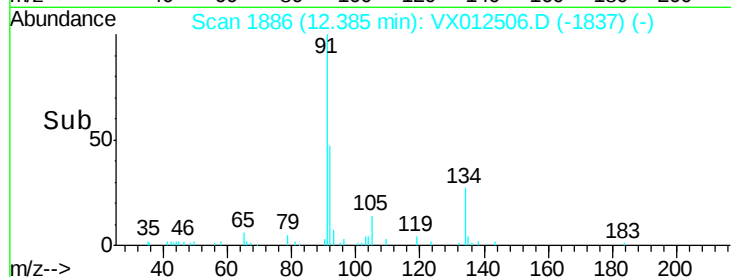
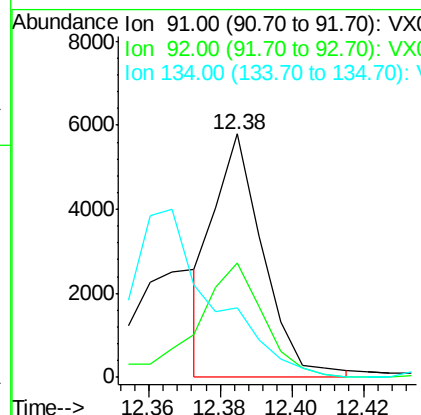
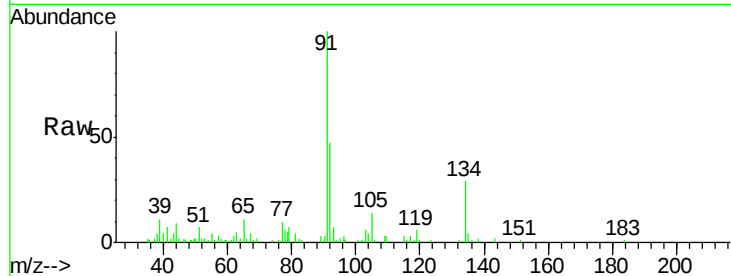
#89
n-Butylbenzene
Concen: 0.976 ug/l m
RT: 12.38 min Scan# 1886
Delta R.T. -0.00 min
Lab File: VX012506.D
Acq: 19 Sep 2019 04:38

Instrument :
MSVOA_X
ClientSampled :
S13-0282DL

Tot Ion	Ratio	Lower	Upper
91	100		
92	65.3	27.7	83.0
134	116.3	12.9	38.6

Manual Integrations
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#95
Naphthalene
Concen: 9.186 ug/l
RT: 13.83 min Scan# 2123
Delta R.T. -0.00 min
Lab File: VX012506.D
Acq: 19 Sep 2019 04:38

Tgt Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.2	15.4
129	12.4	8.8	13.2

