

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX111419\
 Data File : VX013421.D
 Acq On : 14 Nov 2019 14:49
 Operator : JC/SP
 Sample : K5828-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 REP111319

Manual Integrations
 APPROVED

MMDadoda
 11/15/2019 9:21:20 AM

Quant Time: Nov 15 06:31:15 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X111119W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Nov 12 01:16:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.01	128	111945	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	624931	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	540617	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.05	65	244506	29.58	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.60%
60) 4-Bromofluorobenzene	11.14	95	238909	27.49	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	91.63%
63) Toluene-d8	8.71	98	745051	30.48	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.60%

Target Compounds

					Ovalue
4) Vinyl Chloride	1.40	62	29607	2.850	ug/l 100
10) 1,1-Dichloroethene	2.36	96	22750	3.291	ug/l 95
15) Acetone	2.43	58	2861	2.120	ug/l 88
19) trans-1,2-Dichloroethene	3.15	96	219005	29.640	ug/l 97
20) Diisopropyl ether	3.85	45	20294	0.829	ug/l # 66
22) cis-1,2-Dichloroethene	4.59	96	6983122	828.940	ug/l 87
23) tert-Butyl Alcohol	3.03	59	16282m	7.594	ug/l
24) Methyl tert-Butyl Ether	3.19	73	389370	17.016	ug/l 100
34) Benzene	6.14	78	23095	0.798	ug/l 96
37) Trichloroethene	7.21	130	1442679	186.001	ug/l 97
50) 1,1,2-Trichloroethane	9.21	97	8889	1.206	ug/l 91
61) Tetrachloroethene	9.33	164	222472	33.372	ug/l 98
64) Chlorobenzene	10.14	112	6983	0.371	ug/l 96

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

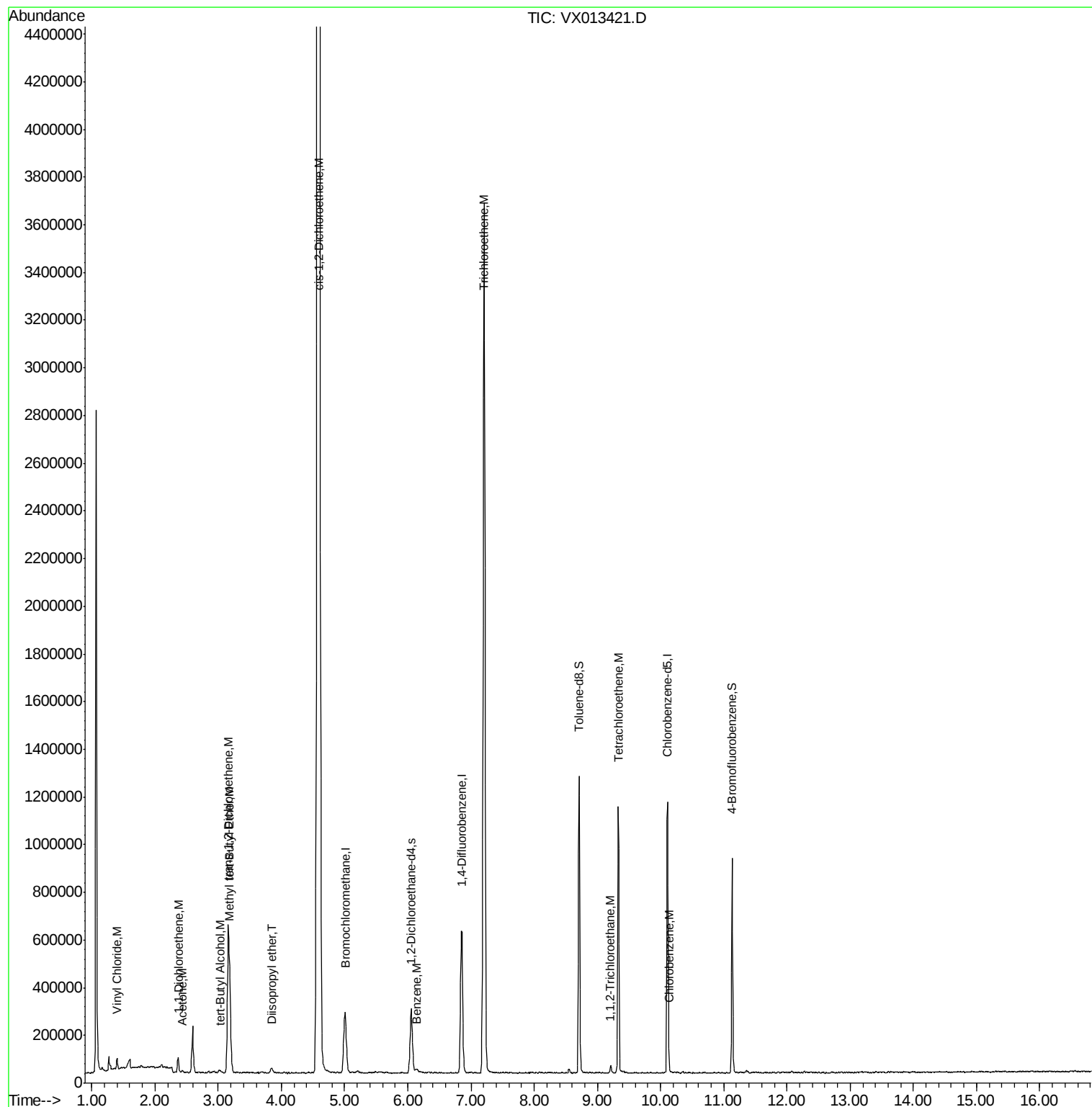
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX111419\
Data File : VX013421.D
Acq On : 14 Nov 2019 14:49
Operator : JC/SP
Sample : K5828-03
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 13 Sample Multiplier: 1

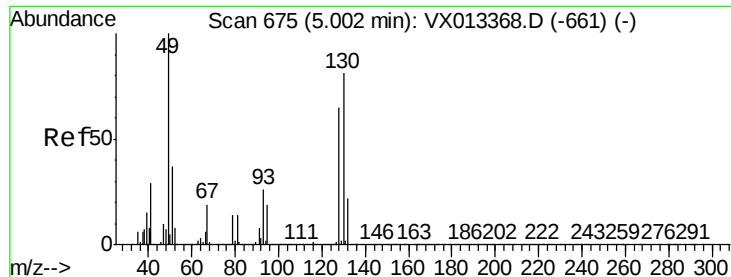
Instrument :
MSVOA_X
ClientSampleId :
REP111319

Manual Integrations
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11/15/2019 9:21:20 AM

Quant Time: Nov 15 06:31:15 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA X\METHOD\624X111119W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Tue Nov 12 01:16:13 2019
Response via : Initial Calibration





#1

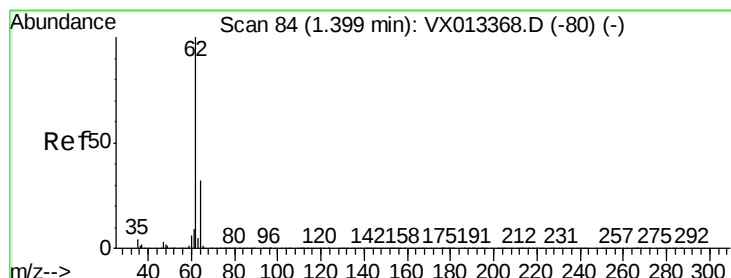
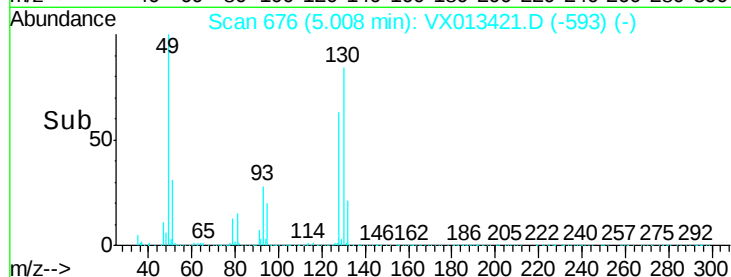
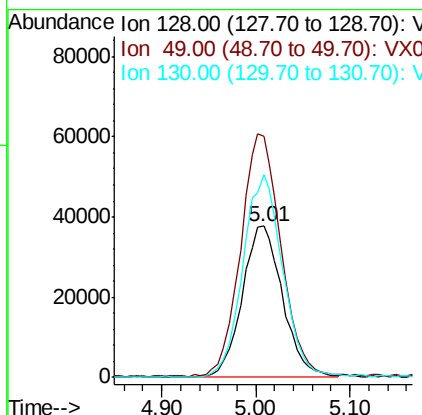
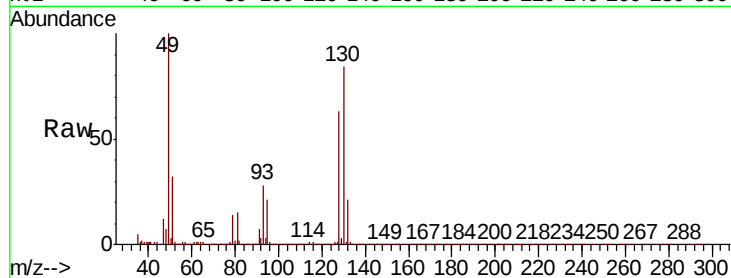
Bromochloromethane
Concen: 30.000 ug/l
RT: 5.01 min Scan# 676
Delta R.T. 0.01 min
Lab File: VX013421.D
Acq: 14 Nov 2019 14:49

Instrument :
MSVOA_X
ClientSampleId :
REP111319

Tot Ion	Ratio	Resp	Lower	Upper
128	100	111945		
49	160.3	0.0	388.3	
130	134.2	0.0	318.5	

Manual Integrations
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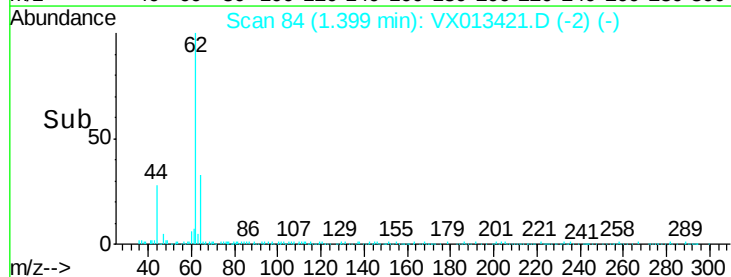
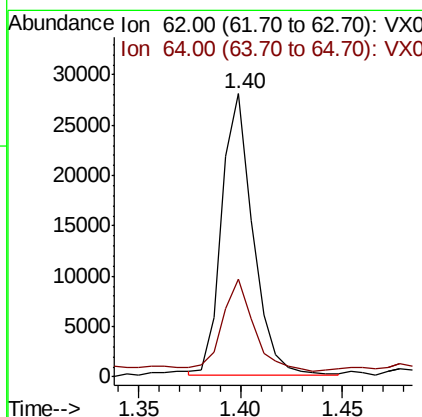
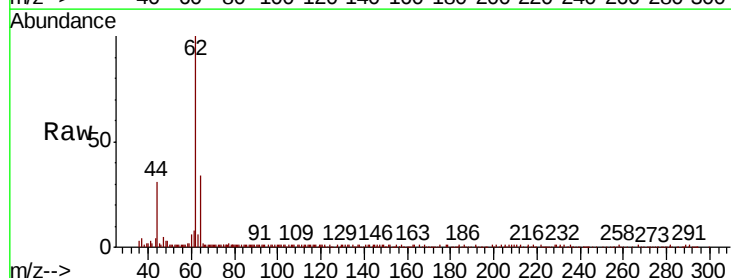
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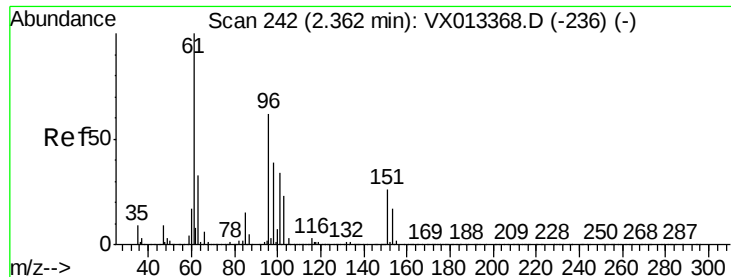


#4

Vinyl Chloride
Concen: 2.850 ug/l
RT: 1.40 min Scan# 84
Delta R.T. -0.00 min
Lab File: VX013421.D
Acq: 14 Nov 2019 14:49

Tgt Ion	Ratio	Resp	Lower	Upper
62	100	29607		
64	32.1	25.4	38.2	





#10

1,1-Dichloroethene

Concen: 3.291 ug/l

RT: 2.36 min Scan# 242

Delta R.T. -0.00 min

Lab File: VX013421.D

Acq: 14 Nov 2019 14:49

Instrument :

MSVOA_X

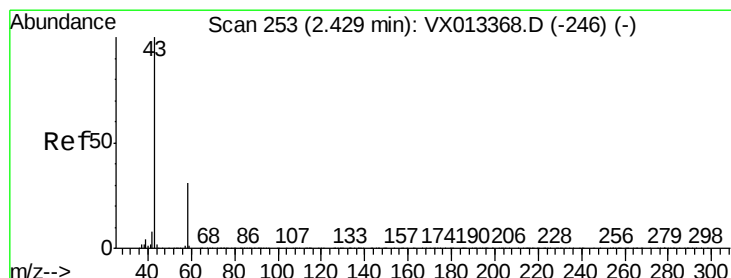
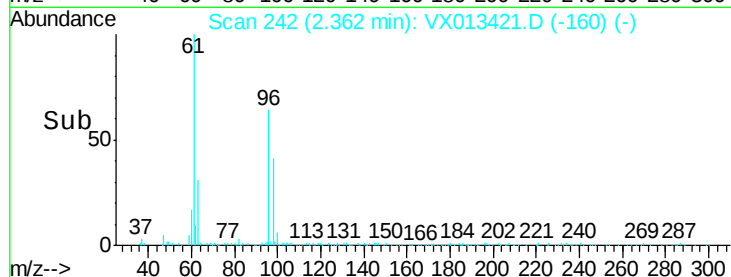
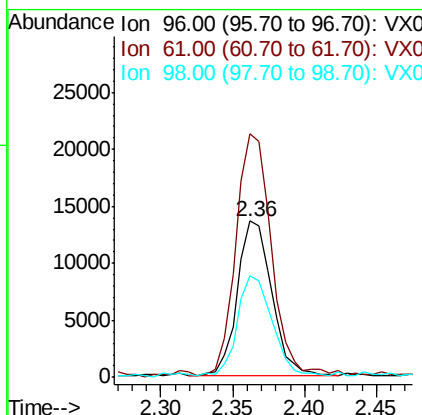
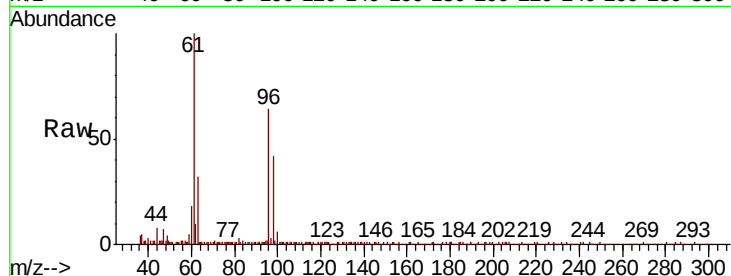
ClientSampleId :

REP111319

Tot Ion:	96	Resp:	22750
Ion	Ratio	Lower	Upper
96	100		
61	153.3	128.9	193.3
98	62.9	49.7	74.5

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#15

Acetone

Concen: 2.120 ug/l

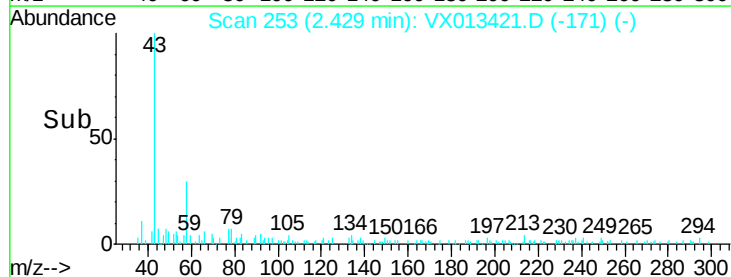
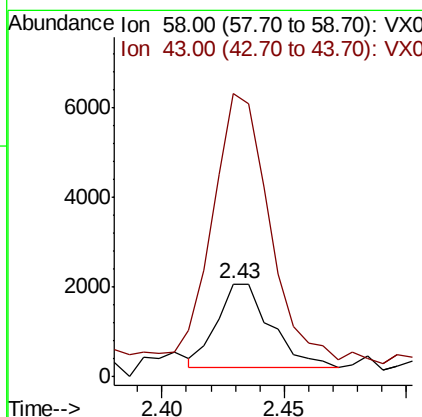
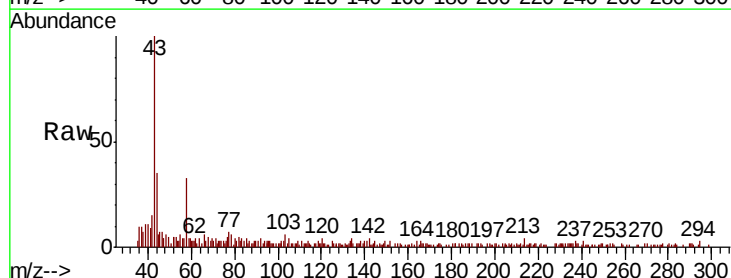
RT: 2.43 min Scan# 253

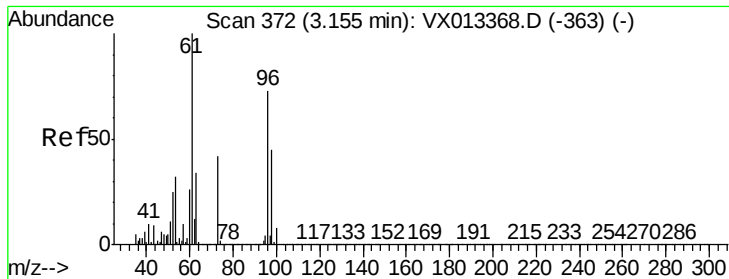
Delta R.T. -0.00 min

Lab File: VX013421.D

Acq: 14 Nov 2019 14:49

Tgt Ion:	58	Resp:	2861
Ion	Ratio	Lower	Upper
58	100		
43	351.9	261.4	392.2





#19

trans-1,2-Dichloroethene

Concen: 29.640 ug/l

RT: 3.15 min Scan# 372

Delta R.T. -0.00 min

Lab File: VX013421.D

Acq: 14 Nov 2019 14:49

Instrument :

MSVOA_X

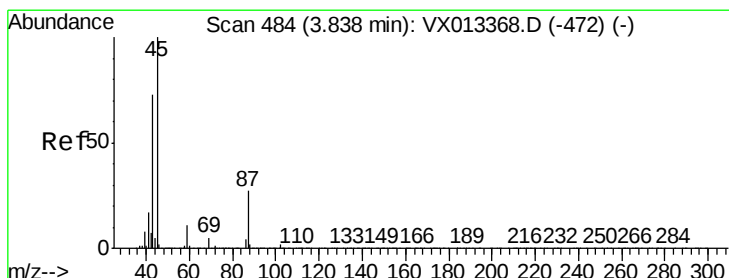
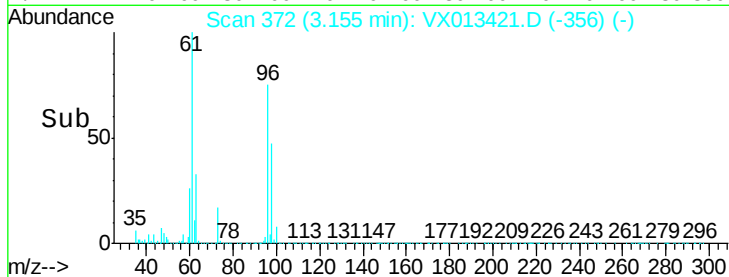
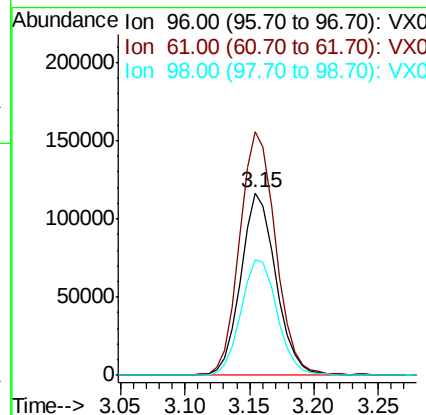
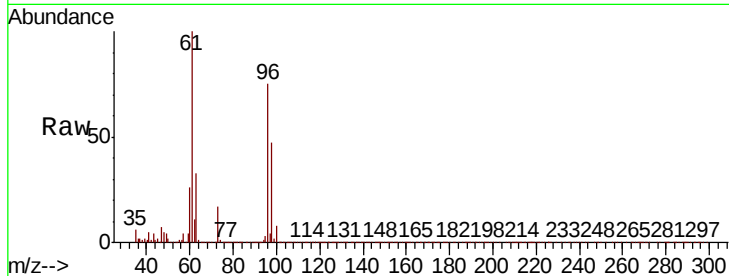
ClientSampleId :

REP111319

Tot Ion:	96	Resp:	219005
Ion	Ratio	Lower	Upper
96	100		
61	133.3	109.9	164.9
98	63.0	49.7	74.5

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#20

Diisopropyl ether

Concen: 0.829 ug/l

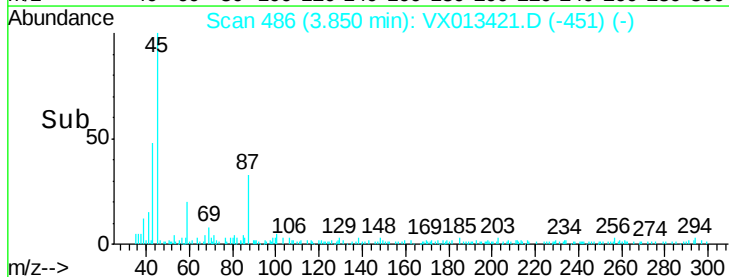
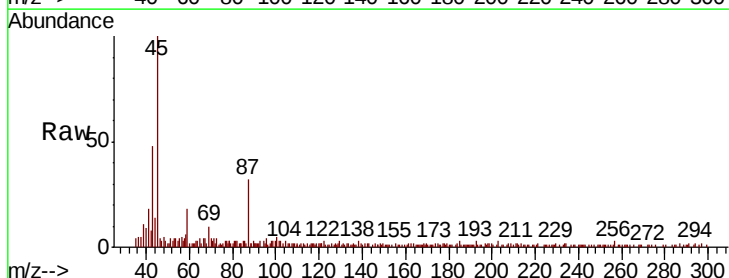
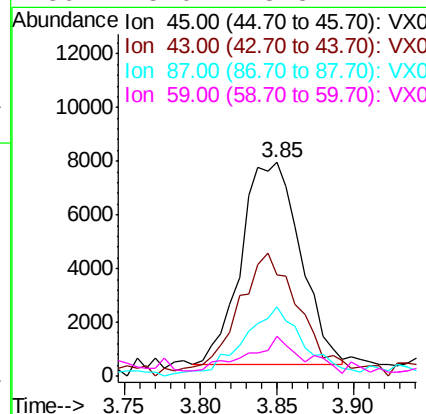
RT: 3.85 min Scan# 486

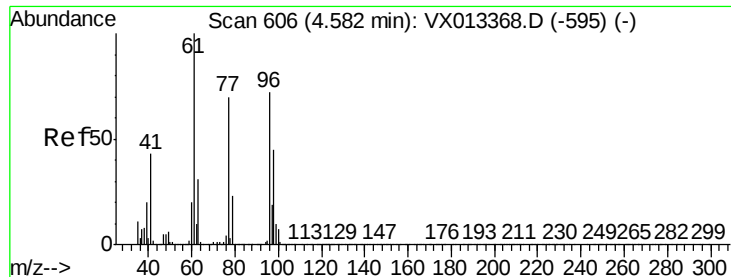
Delta R.T. 0.01 min

Lab File: VX013421.D

Acq: 14 Nov 2019 14:49

Tgt Ion:	45	Resp:	20294
Ion	Ratio	Lower	Upper
45	100		
43	45.6	67.7	101.5#
87	31.9	21.5	32.3
59	18.0	8.5	12.7#





#22

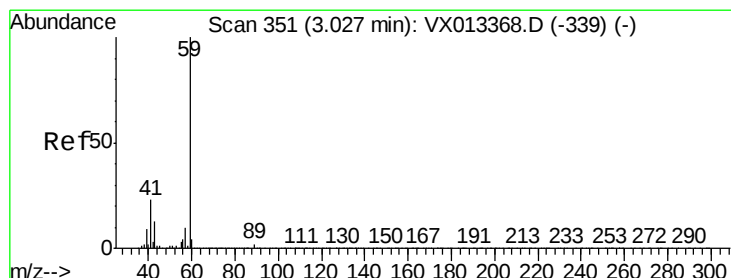
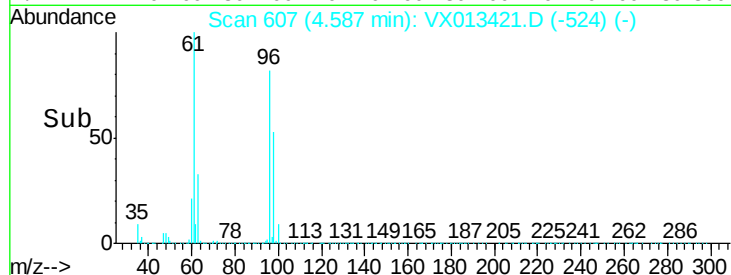
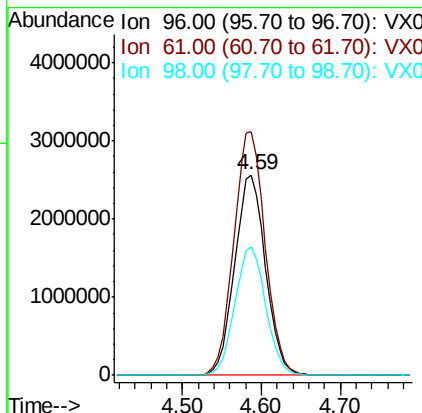
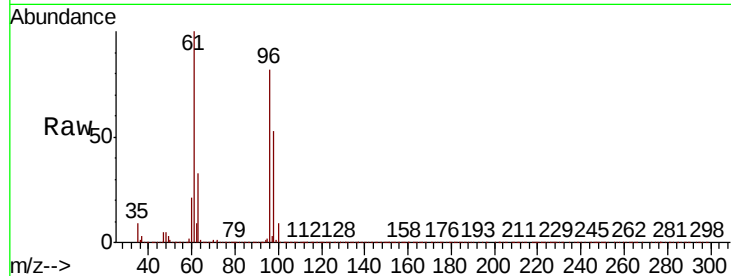
cis-1,2-Dichloroethene
Concen: 828.940 ug/l
RT: 4.59 min Scan# 607
Delta R.T. 0.01 min
Lab File: VX013421.D
Acq: 14 Nov 2019 14:49

Instrument :
MSVOA_X
ClientSampleId :
REP111319

Tot Ion	Ion	Ratio	Lower	Upper
96	96	100		
61	61	123.7	117.0	175.6
98	98	64.3	51.1	76.7

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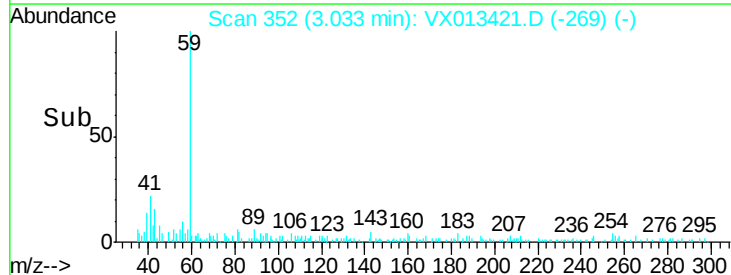
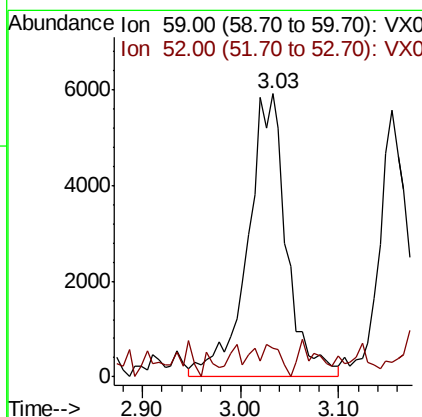
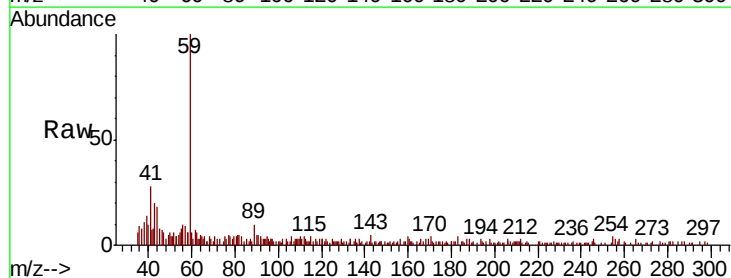
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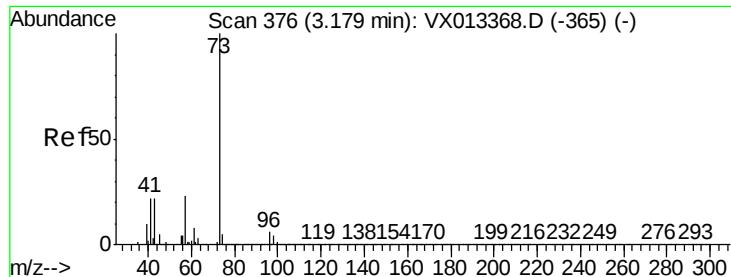


#23

tert-Butyl Alcohol
Concen: 7.594 ug/l m
RT: 3.03 min Scan# 352
Delta R.T. 0.01 min
Lab File: VX013421.D
Acq: 14 Nov 2019 14:49

Tgt Ion	Ion	Ratio	Lower	Upper
59	59	100		
52	52	4.8	0.1	0.1#





#24

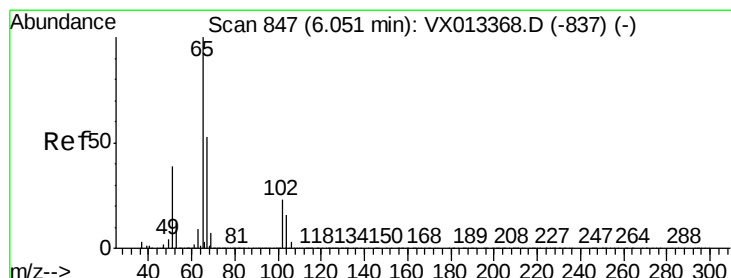
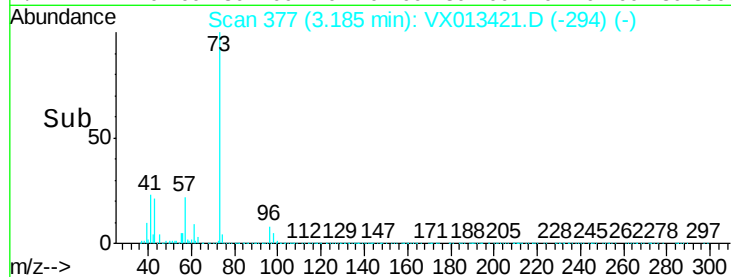
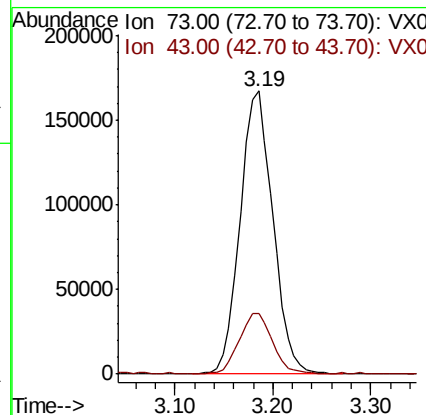
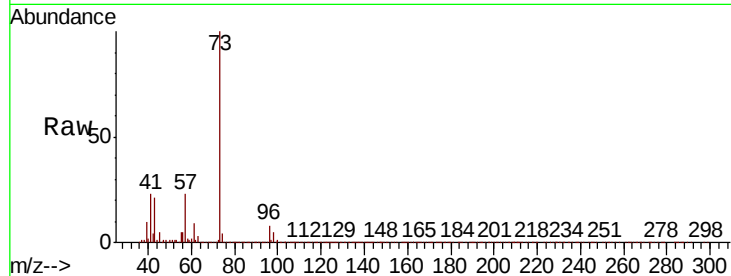
Methyl tert-Butyl Ether
 Concen: 17.016 ug/l
 RT: 3.19 min Scan# 377
 Delta R.T. 0.01 min
 Lab File: VX013421.D
 Acq: 14 Nov 2019 14:49

Instrument :
 MSVOA_X
 ClientSampleId :
 REP111319

Tot Ion	Ratio	Lower	Upper
73	100		
43	21.3	17.0	25.6

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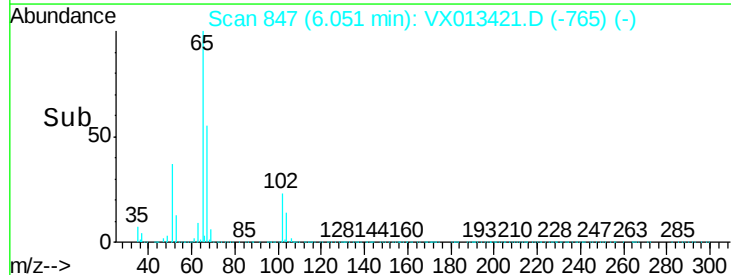
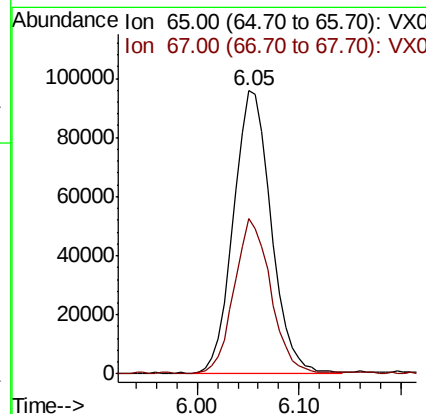
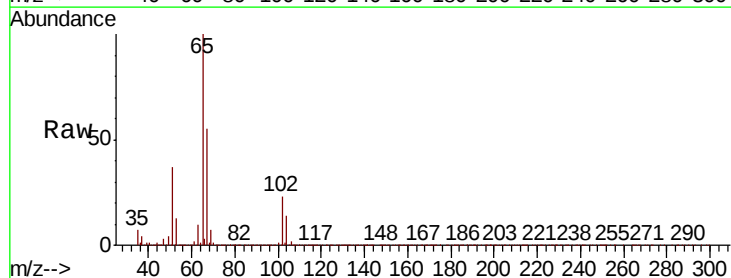
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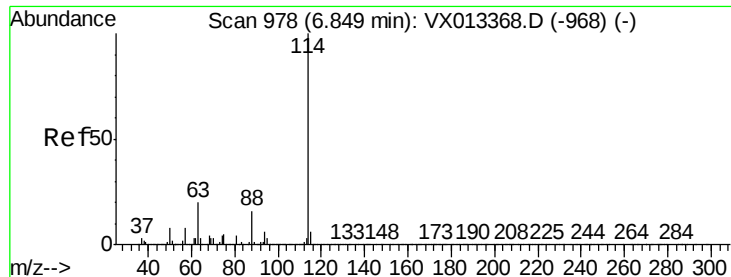


#27

1,2-Dichloroethane-d4
 Concen: 29.579 ug/l
 RT: 6.05 min Scan# 847
 Delta R.T. -0.00 min
 Lab File: VX013421.D
 Acq: 14 Nov 2019 14:49

Tgt Ion	Ratio	Lower	Upper
65	100		
67	53.2	41.0	61.6





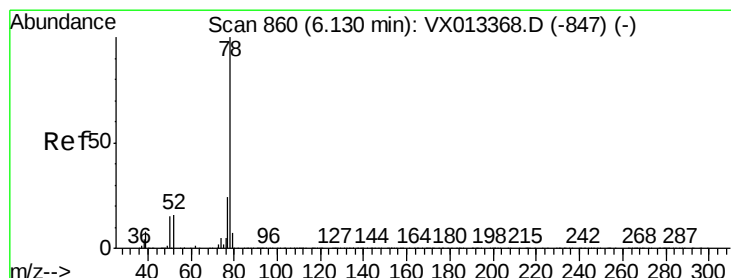
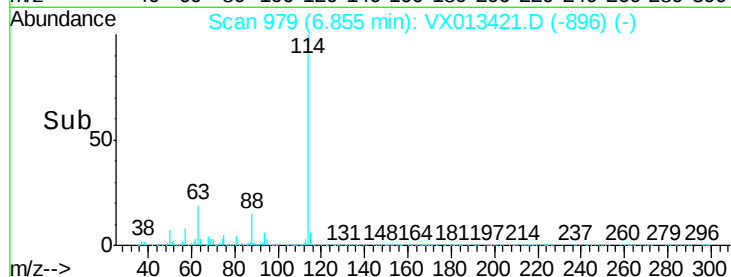
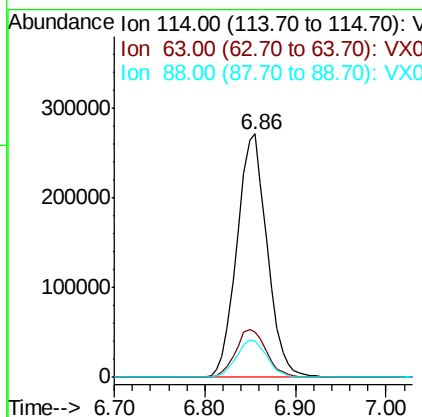
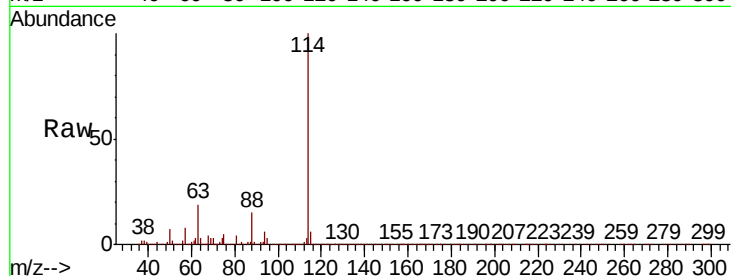
#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 6.86 min Scan# 979
Delta R.T. 0.01 min
Lab File: VX013421.D
Acq: 14 Nov 2019 14:49

Instrument :
MSVOA_X
ClientSampleId :
REP111319

Tot Ion:	114	Resp:	624931
Ion Ratio	Lower	Upper	
114	100		
63	19.9	16.1	24.1
88	15.4	12.3	18.5

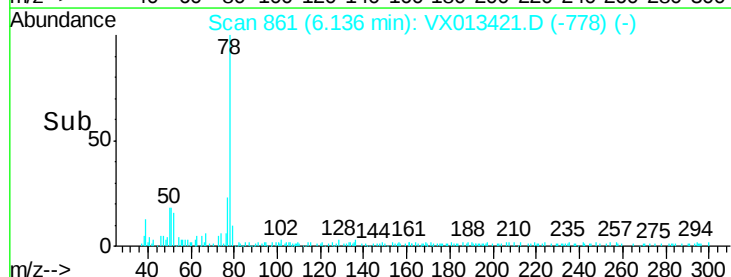
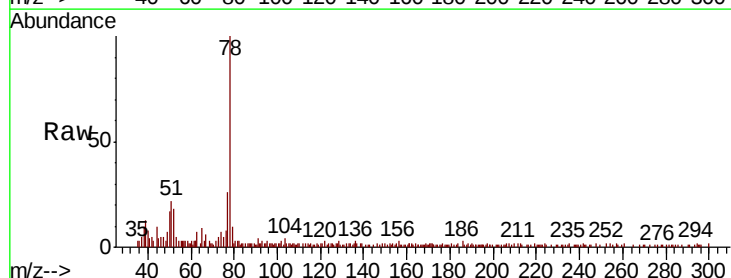
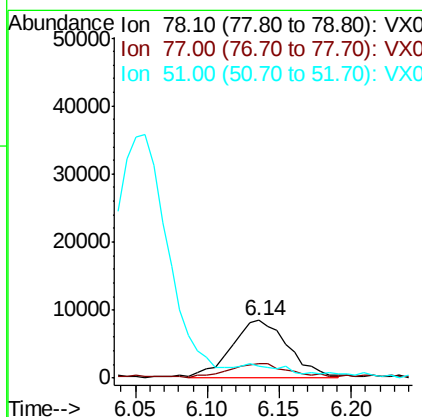
Manual Integrations
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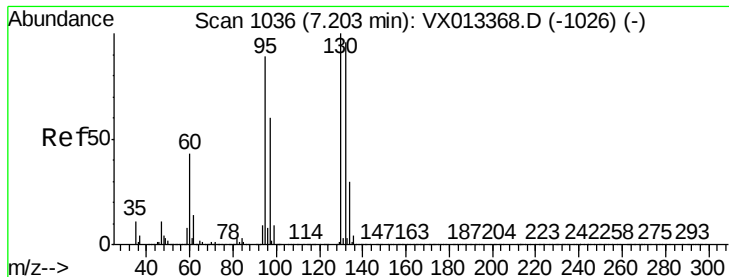
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11/15/2019 9:21:20 AM



#34
Benzene
Concen: 0.798 ug/l
RT: 6.14 min Scan# 861
Delta R.T. 0.01 min
Lab File: VX013421.D
Acq: 14 Nov 2019 14:49

Tgt Ion:	78	Resp:	23095
Ion Ratio	Lower	Upper	
78	100		
77	27.2	19.3	28.9
51	14.8	12.2	18.4





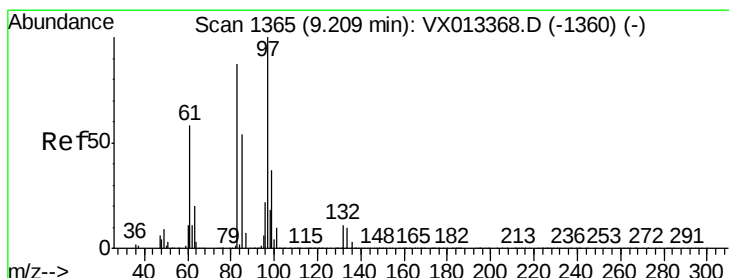
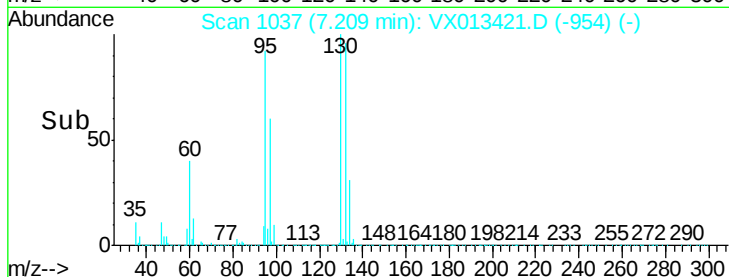
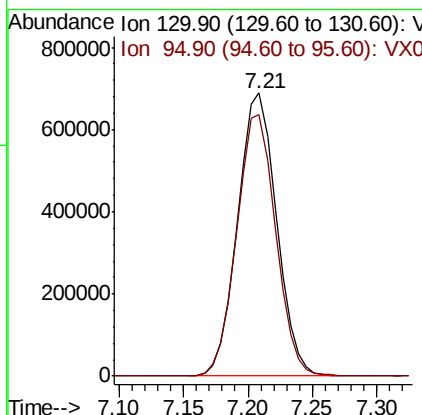
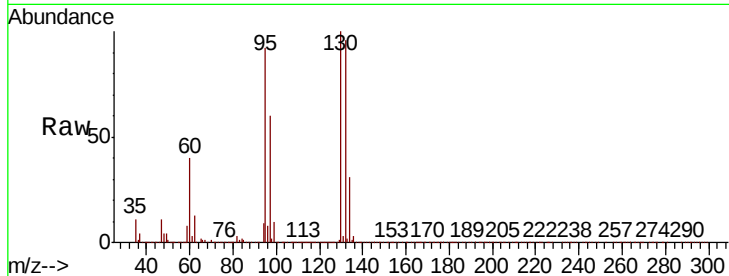
#37
 Trichloroethene
 Concen: 186.001 ug/l
 RT: 7.21 min Scan# 1037
 Delta R.T. 0.01 min
 Lab File: VX013421.D
 Acq: 14 Nov 2019 14:49

Instrument :
 MSVOA_X
 ClientSampleId :
 REP111319

Tot Ion:130 Resp: 1442679
 Ion Ratio Lower Upper
 130 100
 95 92.3 71.3 106.9

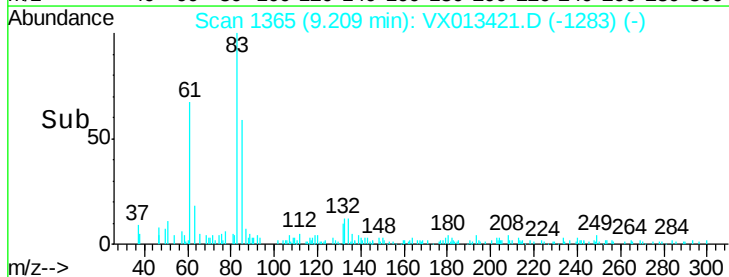
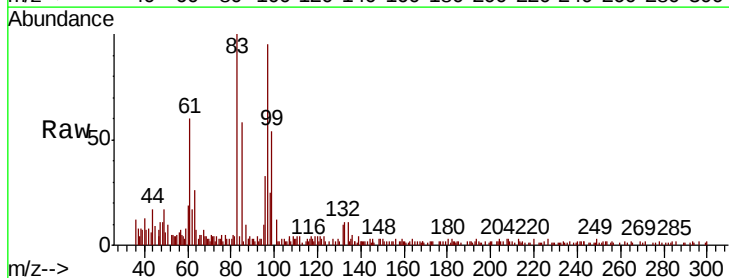
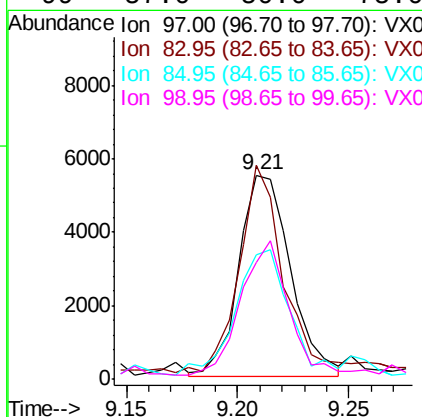
Manual Integrations
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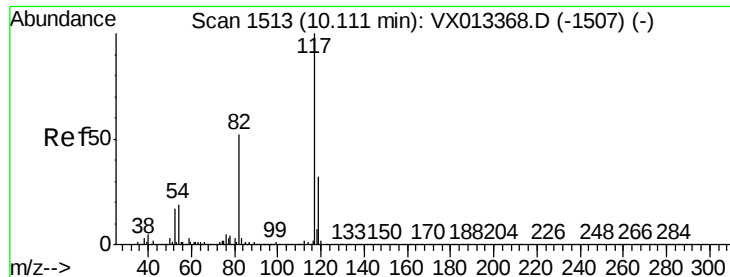
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 11/15/2019 9:21:20 AM



#50
 1,1,2-Trichloroethane
 Concen: 1.206 ug/l
 RT: 9.21 min Scan# 1365
 Delta R.T. -0.00 min
 Lab File: VX013421.D
 Acq: 14 Nov 2019 14:49

Tgt Ion: 97 Resp: 8889
 Ion Ratio Lower Upper
 97 100
 83 102.7 69.6 104.4
 85 57.4 45.5 68.3
 99 57.0 50.0 75.0





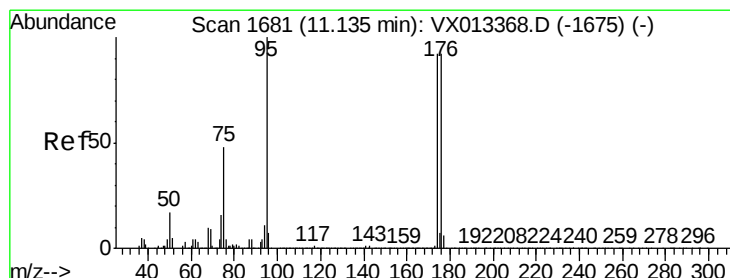
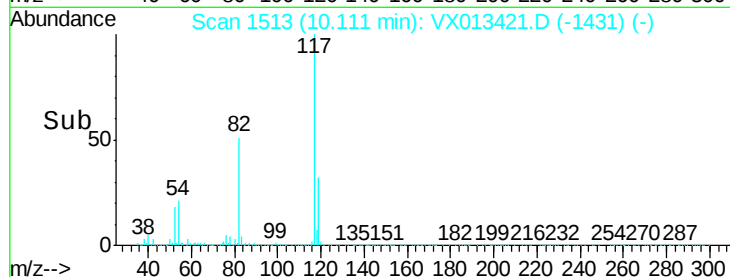
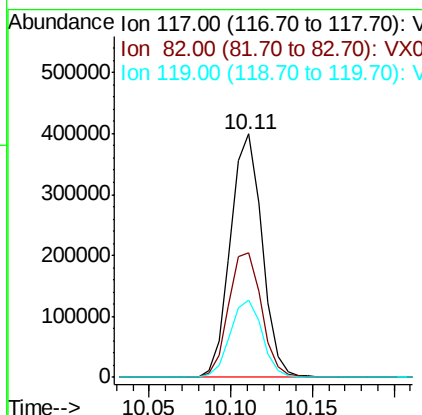
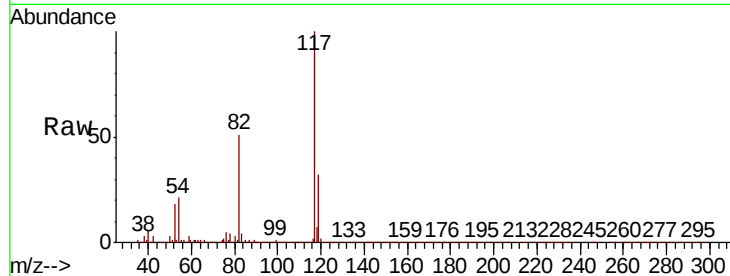
#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VX013421.D
Acq: 14 Nov 2019 14:49

Instrument :
MSVOA_X
ClientSampleId :
REP111319

Tot Ion	Ratio	Lower	Upper
117	100		
82	53.3	43.7	65.5
119	31.9	25.5	38.3

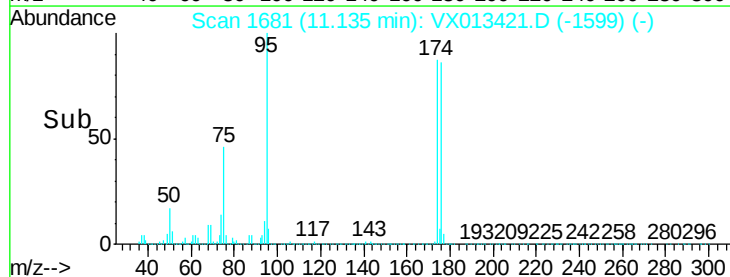
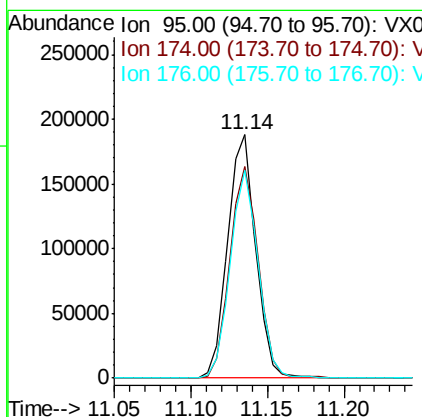
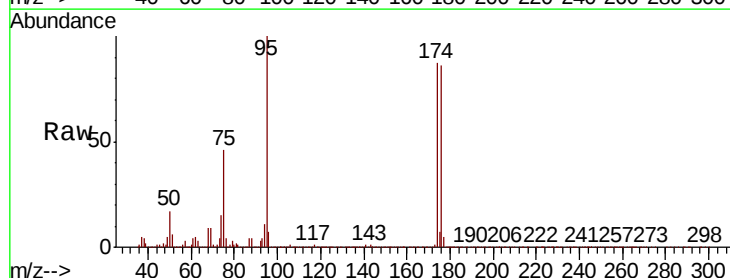
Manual Integrations
APPROVED

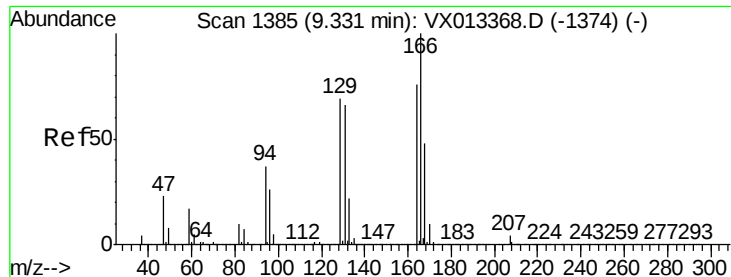
MMDadoda
11/15/2019 9:21:20 AM



#60
4-Bromofluorobenzene
Concen: 27.495 ug/l
RT: 11.14 min Scan# 1681
Delta R.T. -0.00 min
Lab File: VX013421.D
Acq: 14 Nov 2019 14:49

Tgt Ion	Ratio	Lower	Upper
95	100		
174	88.1	70.2	105.2
176	84.9	68.3	102.5





#61

Tetrachloroethene

Concen: 33.372 ug/l

RT: 9.33 min Scan# 1385

Delta R.T. -0.00 min

Lab File: VX013421.D

Acq: 14 Nov 2019 14:49

Instrument :

MSVOA_X

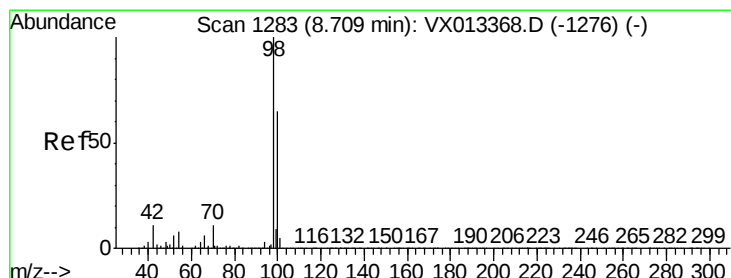
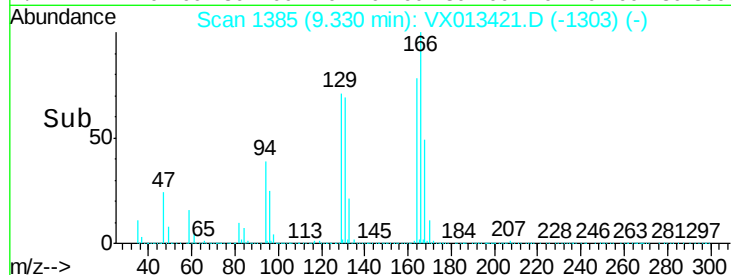
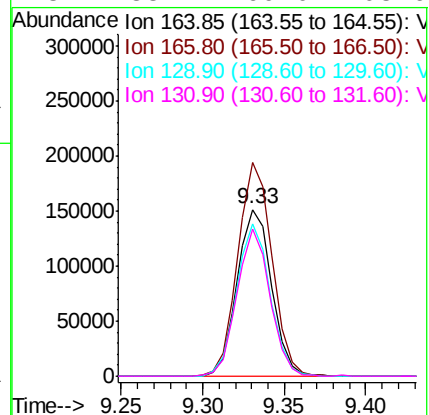
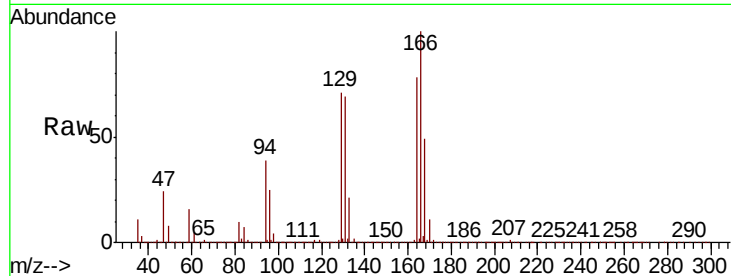
ClientSampleId :

REP111319

Tot Ion	Ion	Ratio	Resp	Lower	Upper
164	100				
166	128.3	104.9	157.3		
129	91.1	72.3	108.5		
131	88.2	69.0	103.6		

Manual Integrations
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11/15/2019 9:21:20 AM



#63

Toluene-d8

Concen: 30.477 ug/l

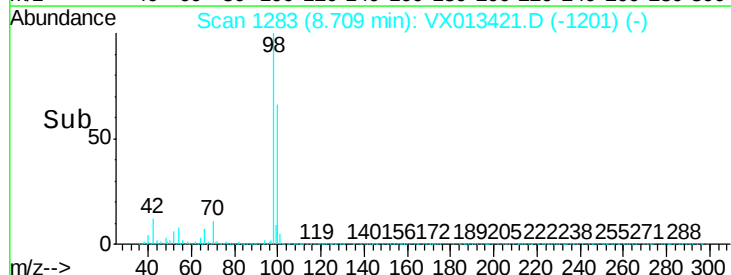
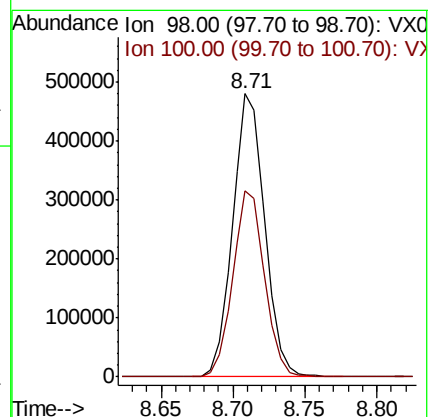
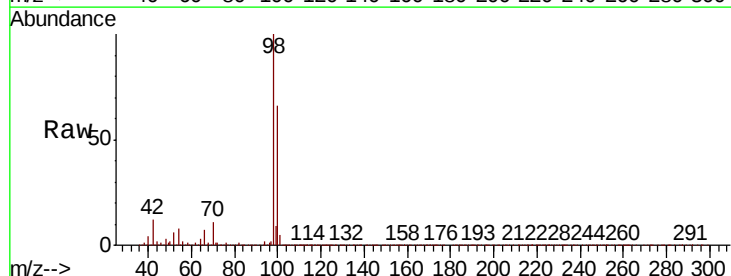
RT: 8.71 min Scan# 1283

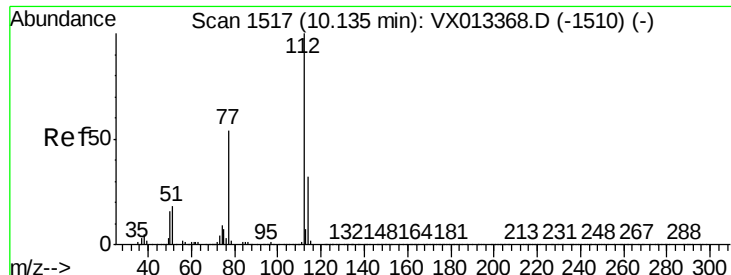
Delta R.T. -0.00 min

Lab File: VX013421.D

Acq: 14 Nov 2019 14:49

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
98	100				
100	65.4	52.5	78.7		





#64
Chlorobenzene
Concen: 0.371 ug/l
RT: 10.14 min Scan# 1517
Delta R.T. -0.00 min
Lab File: VX013421.D
Acq: 14 Nov 2019 14:49

Instrument :
MSVOA_X
ClientSampleId :
REP111319

Tot Ion	Ratio	Lower	Upper
112	100		
114	34.2	25.7	38.5

Manual Integrations
APPROVED

MMDadoda
11/15/2019 9:21:20 AM

