

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD052319\
 Data File : VD062516.D
 Acq On : 23 May 2019 12:20
 Operator : VA/AP
 Sample : VSTDCCC050
 Misc : 5.00g/5ml/MSVOA D/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

MMDadoda
 5/24/2019 10:45:02 PM

Quant Time: May 24 01:32:49 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D052019S.M
 Quant Title : SW846 8260
 QLast Update : Tue May 21 03:32:39 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.03	168	660566	50.00	ug/l	-0.03
34) 1,4-Difluorobenzene	8.21	114	921191	50.00	ug/l	-0.02
63) Chlorobenzene-d5	12.37	117	712570	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	14.51	152	382540	50.00	ug/l	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.44	65	322420	45.60	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	91.20%	
35) Dibromofluoromethane	6.91	113	388014	46.69	ug/l	-0.03
Spiked Amount	50.000		Recovery	=	93.38%	
50) Toluene-d8	10.41	98	899664	49.47	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	98.94%	
62) 4-Bromofluorobenzene	13.55	95	375468	47.20	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	94.40%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.57	85	241634	37.853	ug/l	99
3) Chloromethane	1.75	50	190358	41.598	ug/l	94
4) Vinyl Chloride	1.85	62	198683	41.260	ug/l	99
5) Bromomethane	2.14	94	71888	34.597	ug/l	93
6) Chloroethane	2.26	64	94031	40.366	ug/l	100
7) Trichlorofluoromethane	2.52	101	414924	37.293	ug/l	99
8) Diethyl Ether	2.87	74	55004	36.648	ug/l	77
9) 1,1,2-Trichlorotrifluoroet	3.14	101	270359	40.845	ug/l	97
10) Methyl Iodide	3.29	142	454868	49.284	ug/l	92
11) Tert butyl alcohol	4.07	59	65829	201.693	ug/l	98
12) 1,1-Dichloroethene	3.12	96	195920	40.049	ug/l	86
13) Acrolein	3.03	56	68467	252.605	ug/l	92
14) Allyl chloride	3.61	41	332288	46.068	ug/l #	83
15) Acrylonitrile	4.19	53	184765	247.049	ug/l	89
16) Acetone	3.21	43	290349	229.145	ug/l #	86
17) Carbon Disulfide	3.37	76	679189	45.843	ug/l	100
18) Methyl Acetate	3.64	43	92194	42.166	ug/l	94
19) Methyl tert-butyl Ether	4.23	73	510352	45.168	ug/l	93
20) Methylene Chloride	3.80	84	244867	44.620	ug/l	96
21) trans-1,2-Dichloroethene	4.21	96	268811	46.938	ug/l	89
22) Diisopropyl ether	5.11	45	711939	46.371	ug/l	95
23) Vinyl Acetate	5.04	43	2081780	224.397	ug/l	99
24) 1,1-Dichloroethane	4.97	63	432426	43.732	ug/l	98
25) 2-Butanone	6.07	43	288984	218.058	ug/l	96
26) 2,2-Dichloropropane	6.02	77	457854	42.955	ug/l	93
27) cis-1,2-Dichloroethene	6.03	96	277634	44.959	ug/l	99
28) Bromochloromethane	6.43	49	171270	48.260	ug/l	92
29) Tetrahydrofuran	6.45	42	142197	224.665	ug/l	99
30) Chloroform	6.66	83	508491	40.337	ug/l	99
31) Cyclohexane	6.94	56	314258	47.070	ug/l	96
32) 1,1,1-Trichloroethane	6.86	97	499898	39.278	ug/l	99
36) 1,1-Dichloropropene	7.14	75	365605	41.512	ug/l	96
37) Ethyl Acetate	6.18	43	149967	43.832	ug/l	97
38) Carbon Tetrachloride	7.10	117	501292m	38.298	ug/l	

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD052319\
 Data File : VD062516.D
 Acq On : 23 May 2019 12:20
 Operator : VA/AP
 Sample : VSTDCCC050
 Misc : 5.00g/5ml/MSVOA D/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleID :
 VSTDCCC050

Manual Integrations
 APPROVED

MMDadoda
 5/24/2019 10:45:02 PM

Quant Time: May 24 01:32:49 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D052019S.M
 Quant Title : SW846 8260
 QLast Update : Tue May 21 03:32:39 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	8.86	83	315227	43.395	ug/l	94
40) Benzene	7.44	78	755012	43.704	ug/l	98
41) Methacrylonitrile	6.44	41	178709	41.588	ug/l #	89
42) 1,2-Dichloroethane	7.57	62	354745	38.779	ug/l	96
43) Isopropyl Acetate	9.24	43	205215	45.212	ug/l	98
44) Trichloroethene	8.54	130	313012	45.253	ug/l	97
45) 1,2-Dichloropropane	8.93	63	184491	43.822	ug/l	95
46) Dibromomethane	9.06	93	152204	39.884	ug/l #	84
47) Bromodichloromethane	9.36	83	391618	40.339	ug/l	100
48) Methyl methacrylate	9.11	41	125439	41.067	ug/l	86
49) 1,4-Dioxane	9.07	88	25814	942.201	ug/l #	85
51) 4-Methyl-2-Pentanone	10.29	43	614096	204.801	ug/l	97
52) Toluene	10.51	92	543104	45.923	ug/l	100
53) t-1,3-Dichloropropene	10.91	75	336465	41.629	ug/l	97
54) cis-1,3-Dichloropropene	10.03	75	378322	44.859	ug/l	92
55) 1,1,2-Trichloroethane	11.18	97	171261	42.727	ug/l	98
56) Ethyl methacrylate	11.04	69	186520	43.529	ug/l #	93
57) 1,3-Dichloropropane	11.40	76	243954	39.686	ug/l	97
58) 2-Chloroethyl Vinyl ether	9.86	63	569701	258.924	ug/l	91
59) 2-Hexanone	11.53	43	486055	223.037	ug/l	96
60) Dibromochloromethane	11.68	129	318502	41.371	ug/l	98
61) 1,2-Dibromoethane	11.80	107	199538	40.395	ug/l	97
64) Tetrachloroethene	11.25	164	265156	44.442	ug/l	97
65) Chlorobenzene	12.39	112	606966	44.294	ug/l	98
66) 1,1,1,2-Tetrachloroethane	12.50	131	278661	44.055	ug/l	97
67) Ethyl Benzene	12.52	91	1101788	46.681	ug/l	98
68) m/p-Xylenes	12.66	106	759339	89.625	ug/l	93
69) o-Xylene	13.04	106	355105	44.422	ug/l	92
70) Styrene	13.06	104	607990	44.708	ug/l	93
71) Bromoform	13.23	173	190113	45.257	ug/l #	99
73) Isopropylbenzene	13.40	105	1120397	46.465	ug/l	99
74) N-amyl acetate	13.26	43	264024	44.333	ug/l	98
75) 1,1,2,2-Tetrachloroethane	13.69	83	183820	42.256	ug/l	99
76) 1,2,3-Trichloropropane	13.73	75	192705	42.768	ug/l	98
77) Bromobenzene	13.66	156	306158	44.758	ug/l	91
78) n-propylbenzene	13.77	91	1258304	45.051	ug/l	99
79) 2-Chlorotoluene	13.83	91	719771	42.464	ug/l	91
80) 1,3,5-Trimethylbenzene	13.93	105	913729	43.765	ug/l	98
81) trans-1,4-Dichloro-2-buten	13.47	75	59291	46.657	ug/l #	76
82) 4-Chlorotoluene	13.94	91	873108	44.727	ug/l	85
83) tert-Butylbenzene	14.19	119	1004663	43.381	ug/l	97
84) 1,2,4-Trimethylbenzene	14.23	105	924876	43.232	ug/l	94
85) sec-Butylbenzene	14.36	105	1131302	46.849	ug/l	99
86) p-Isopropyltoluene	14.49	119	1017287	46.486	ug/l	97
87) 1,3-Dichlorobenzene	14.45	146	549817	45.516	ug/l	98
88) 1,4-Dichlorobenzene	14.53	146	540994	46.411	ug/l	99
89) n-Butylbenzene	14.80	91	922023	43.657	ug/l	95
90) Hexachloroethane	15.00	117	277708	45.918	ug/l	90
91) 1,2-Dichlorobenzene	14.81	146	455447	44.341	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	15.38	75	33313	40.344	ug/l	94

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD052319\
Data File : VD062516.D
Acq On : 23 May 2019 12:20
Operator : VA/AP
Sample : VSTDCCC050
Misc : 5.00g/5ml/MSVOA D/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

MMDadoda
5/24/2019 10:45:02 PM

Quant Time: May 24 01:32:49 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D052019S.M
Quant Title : SW846 8260
QLast Update : Tue May 21 03:32:39 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.94	180	340483	42.098	ug/l	96
94) Hexachlorobutadiene	16.04	225	248838	41.669	ug/l	100
95) Naphthalene	16.12	128	502179	45.441	ug/l	99
96) 1,2,3-Trichlorobenzene	16.27	180	262155	39.539	ug/l	96

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

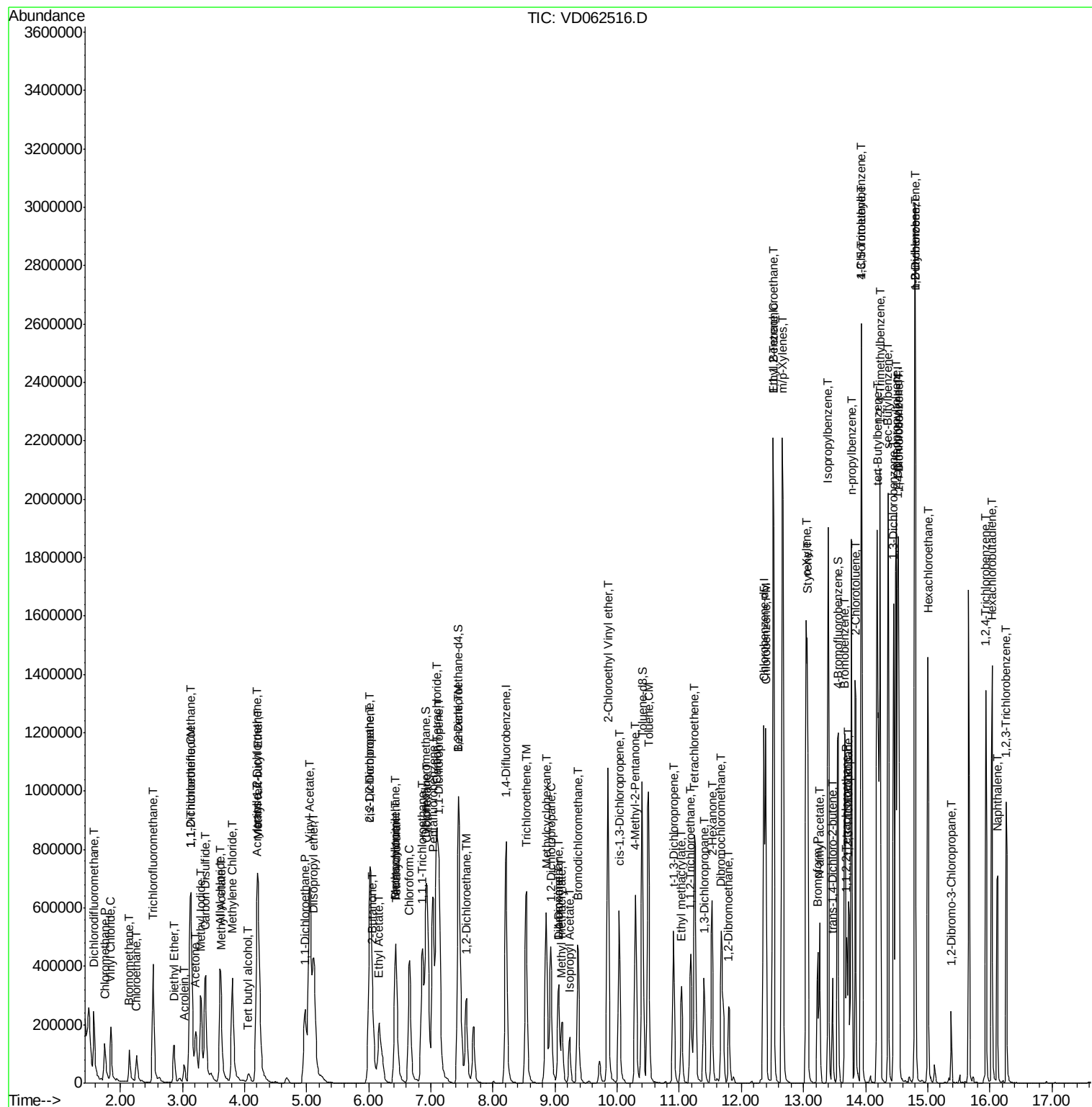
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD052319\
Data File : VD062516.D
Acq On : 23 May 2019 12:20
Operator : VA/AP
Sample : VSTDCCC050
Misc : 5.00µl/5ml/MSVOA D/SOIL
ALS Vial : 2 Sample Multiplier: 1

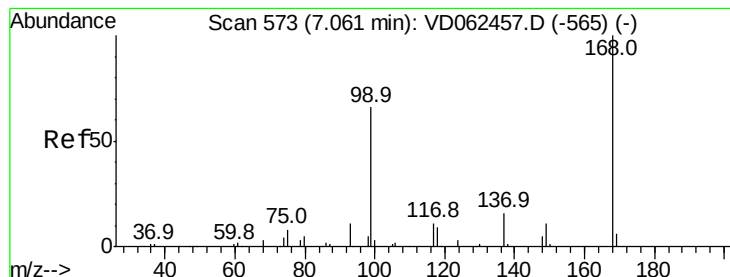
Instrument :
MSVOA_D
Client Sample ID :
VSTDCCC050

Manual Integrations
APPROVED

MMDadoda
5/24/2019 10:45:02 PM

Quant Time: May 24 01:32:49 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D052019S.M
Quant Title : SW846 8260
QLast Update : Tue May 21 03:32:39 2019
Response via : Initial Calibration





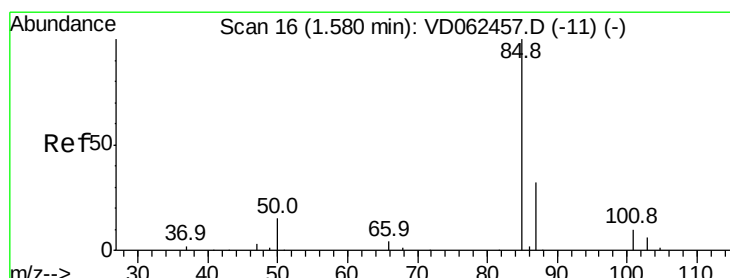
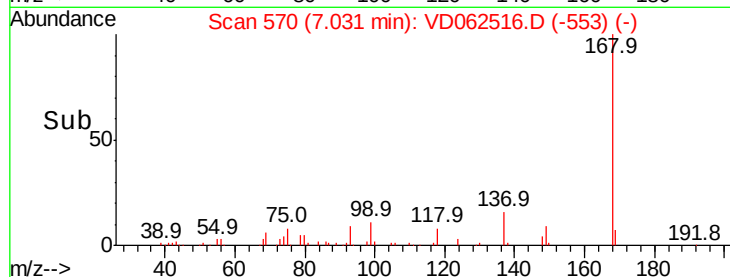
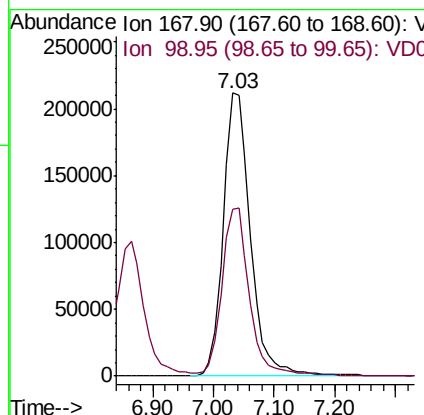
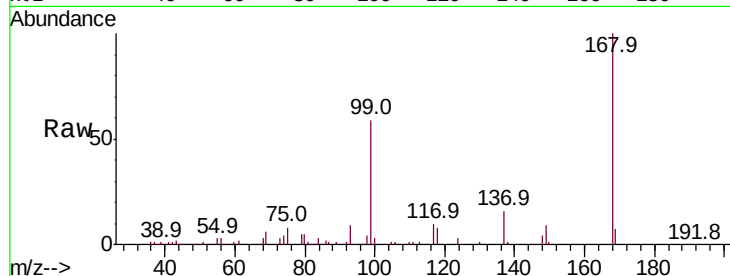
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.03 min Scan# 570
Delta R.T. -0.03 min
Lab File: VD062516.D
Acq: 23 May 2019 12:20

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
168	100		
99	58.8	46.5	69.7

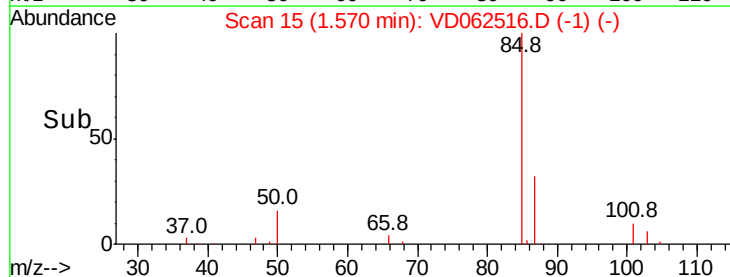
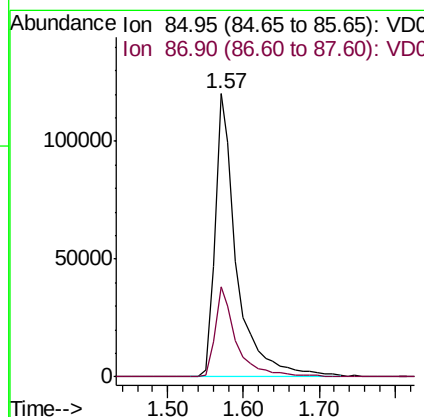
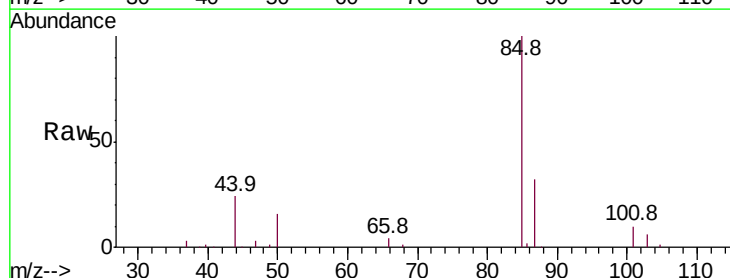
Manual Integrations
APPROVED

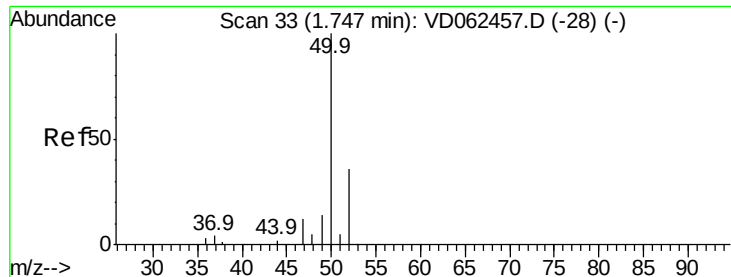
MMDadoda
5/24/2019 10:45:02 PM



#2
Dichlorodifluoromethane
Concen: 37.853 ug/l
RT: 1.57 min Scan# 15
Delta R.T. -0.01 min
Lab File: VD062516.D
Acq: 23 May 2019 12:20

Tgt Ion	Ratio	Lower	Upper
85	100		
87	31.6	16.2	48.6





#3

Chloromethane

Concen: 41.598 ug/l

RT: 1.75 min Scan# 33

Delta R.T. -0.00 min

Lab File: VD062516.D

Acq: 23 May 2019 12:20

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 50 Resp: 190358

Ion Ratio Lower Upper

50 100

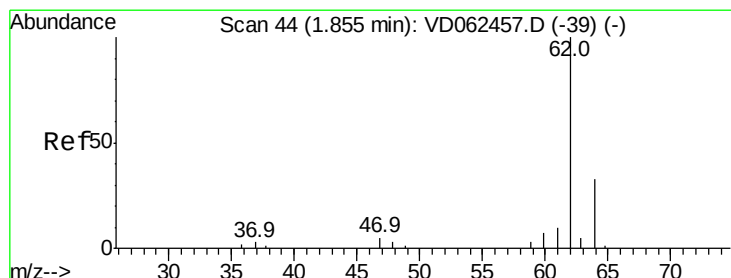
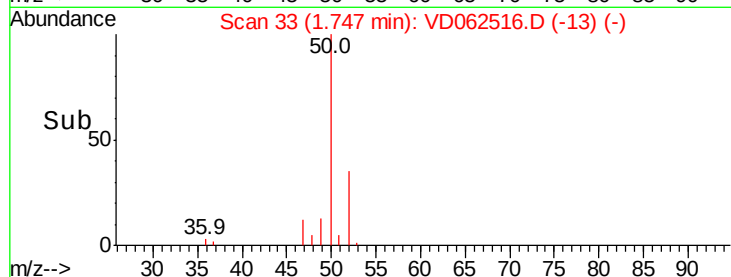
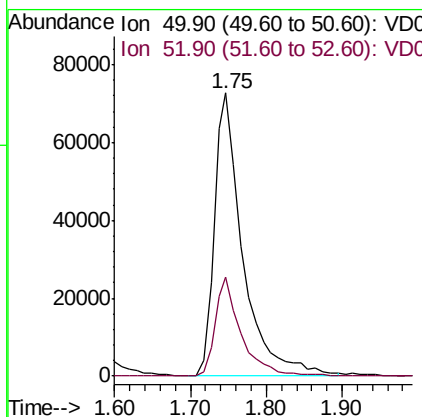
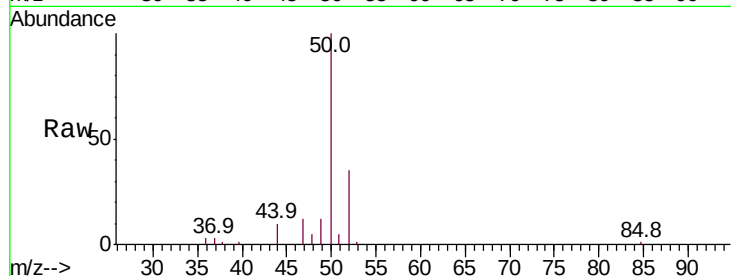
52 34.9 25.2 37.8

Manual Integrations

APPROVED

MMDadoda

5/24/2019 10:45:02 PM



#4

Vinyl Chloride

Concen: 41.260 ug/l

RT: 1.85 min Scan# 43

Delta R.T. -0.01 min

Lab File: VD062516.D

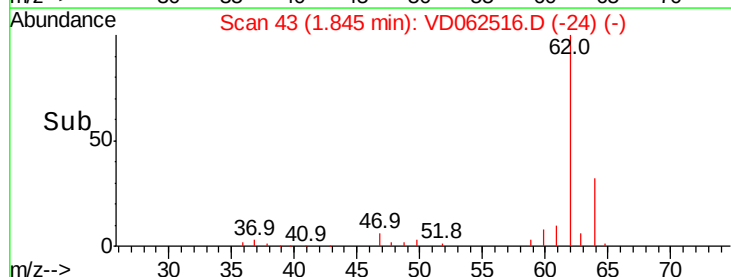
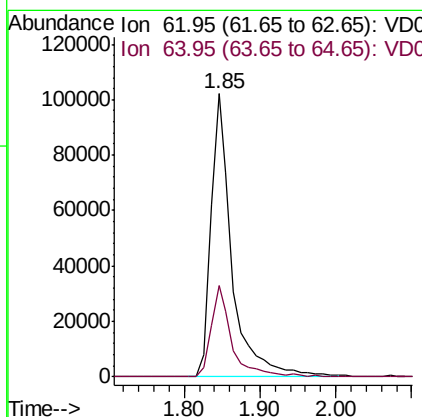
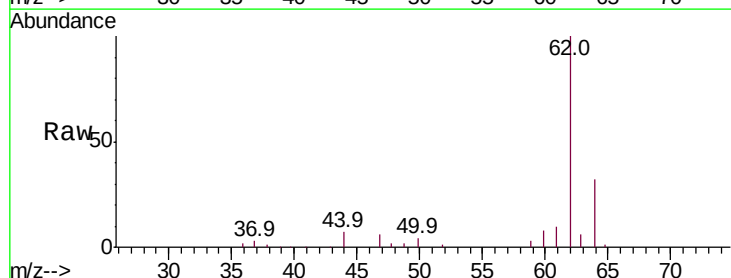
Acq: 23 May 2019 12:20

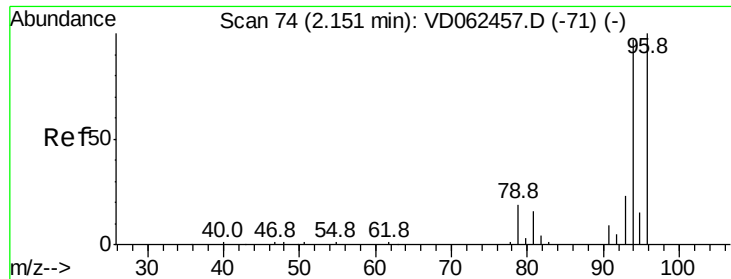
Tgt Ion: 62 Resp: 198683

Ion Ratio Lower Upper

62 100

64 32.3 26.5 39.7





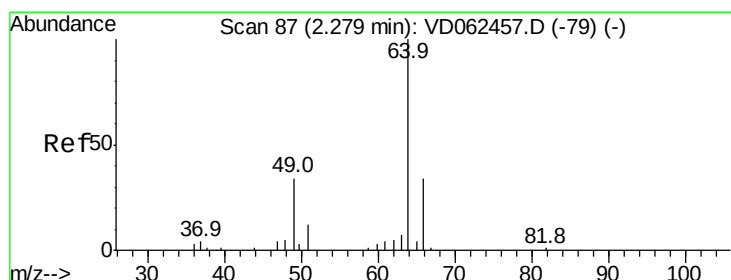
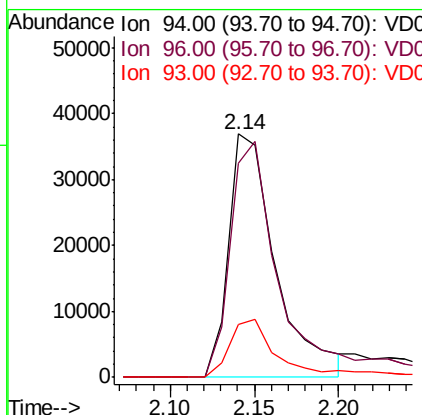
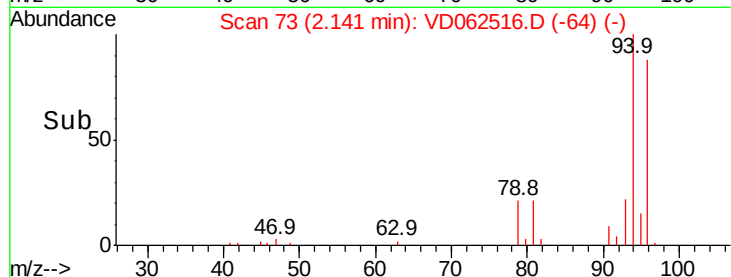
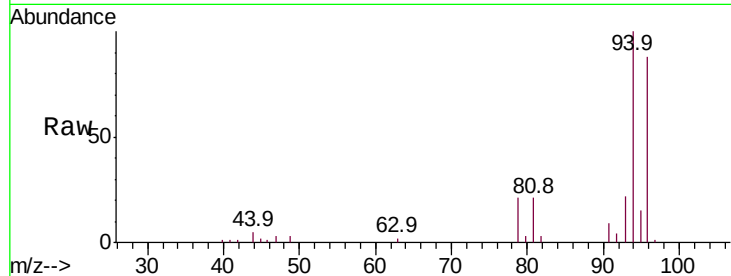
#5
Bromomethane
Concen: 34.597 ug/l
RT: 2.14 min Scan# 73
Delta R.T. -0.01 min
Lab File: VD062516.D
Acq: 23 May 2019 12:20

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
94	100		
96	88.2	76.6	115.0
93	21.6	18.5	27.7

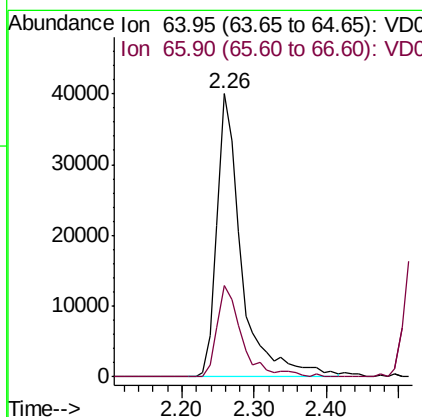
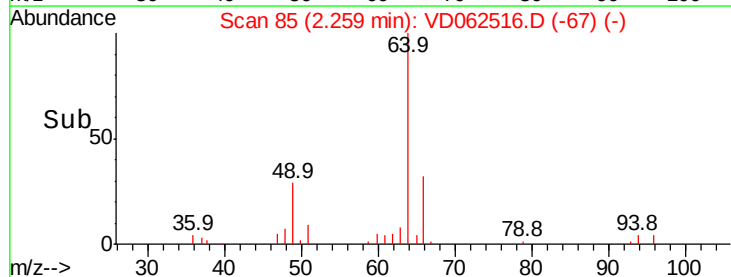
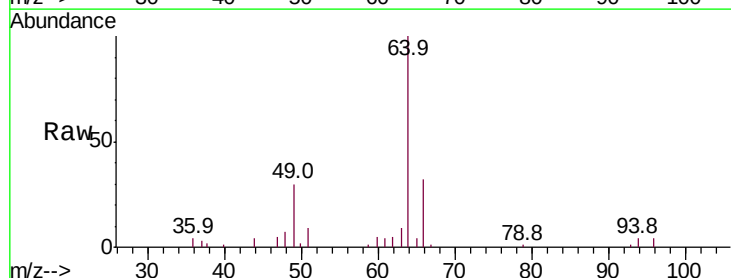
Manual Integrations
APPROVED

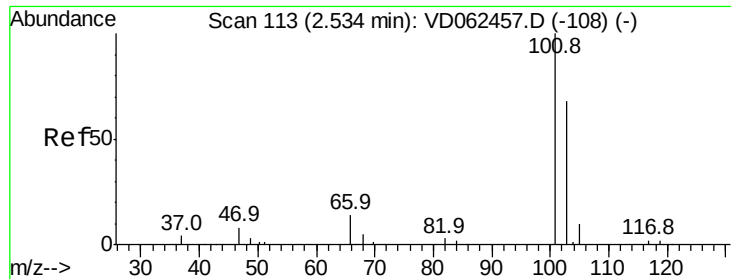
MMDadoda
5/24/2019 10:45:02 PM



#6
Chloroethane
Concen: 40.366 ug/l
RT: 2.26 min Scan# 85
Delta R.T. -0.02 min
Lab File: VD062516.D
Acq: 23 May 2019 12:20

Tgt Ion	Ratio	Lower	Upper
64	100		
66	32.1	25.6	38.4





#7

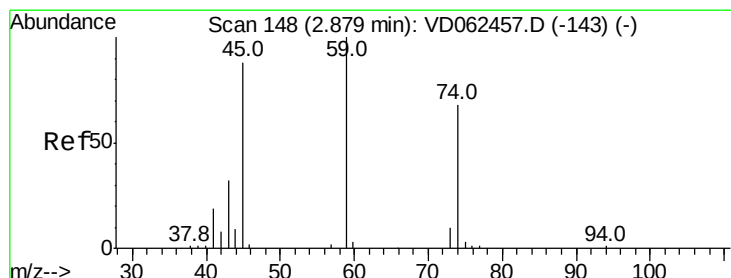
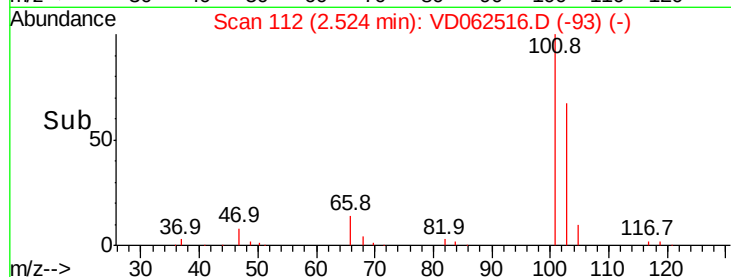
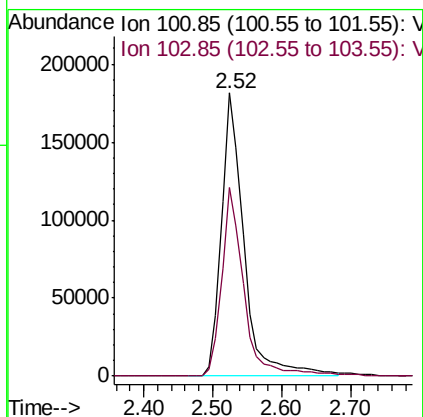
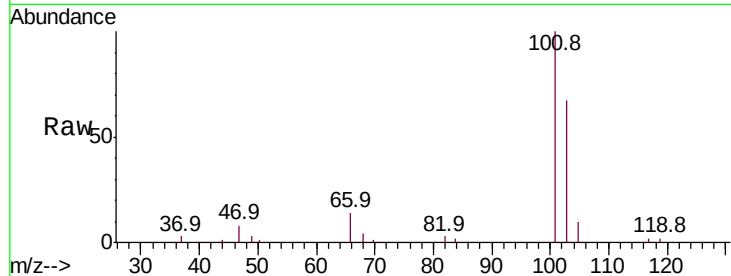
Trichlorofluoromethane
Concen: 37.293 ug/l
RT: 2.52 min Scan# 112
Delta R.T. -0.01 min
Lab File: VD062516.D
Acq: 23 May 2019 12:20

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion:101 Resp: 414924
Ion Ratio Lower Upper
101 100
103 66.5 53.6 80.4

Manual Integrations
APPROVED

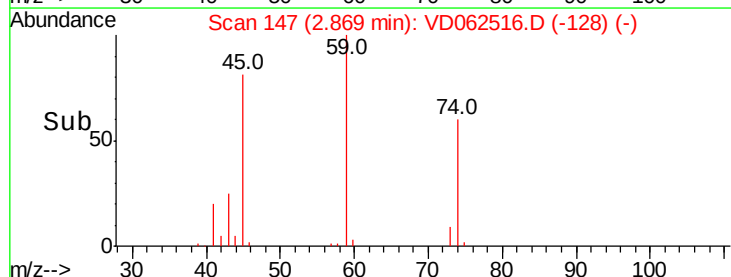
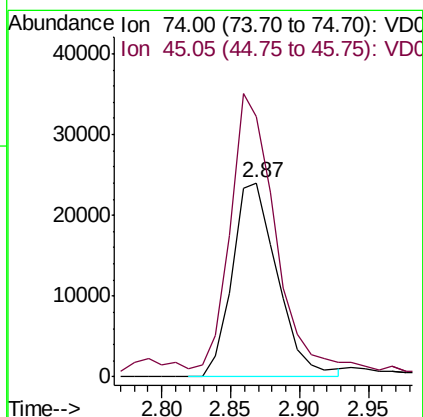
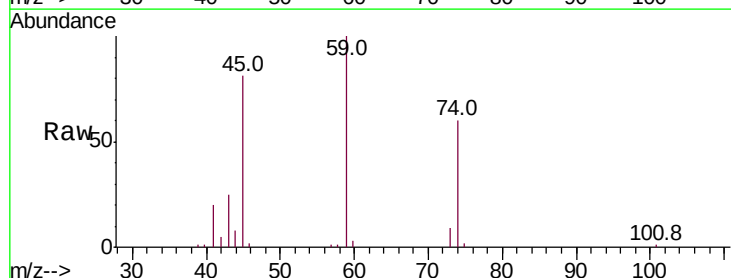
MMDadoda
5/24/2019 10:45:02 PM

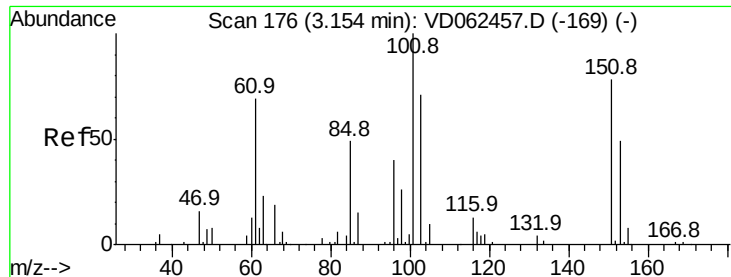


#8

Diethyl Ether
Concen: 36.648 ug/l
RT: 2.87 min Scan# 147
Delta R.T. -0.01 min
Lab File: VD062516.D
Acq: 23 May 2019 12:20

Tgt Ion: 74 Resp: 55004
Ion Ratio Lower Upper
74 100
45 138.3 56.9 170.7





#9

1,1,2-Trichlorotrifluoroethane

Concen: 40.845 ug/l

RT: 3.14 min Scan# 175

Delta R.T. -0.01 min

Lab File: VD062516.D

Acq: 23 May 2019 12:20

Instrument :

MSVOA_D

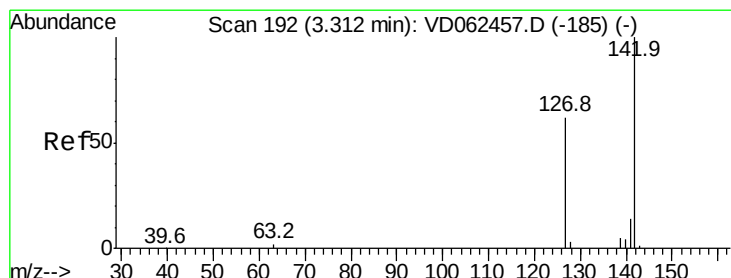
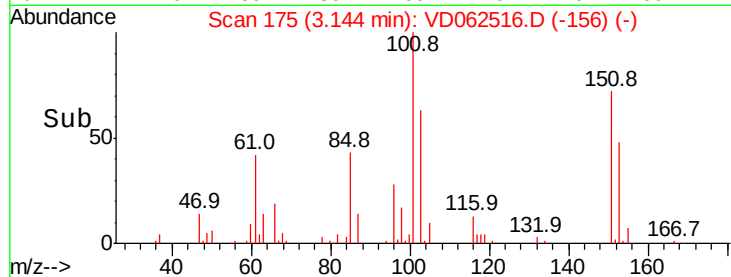
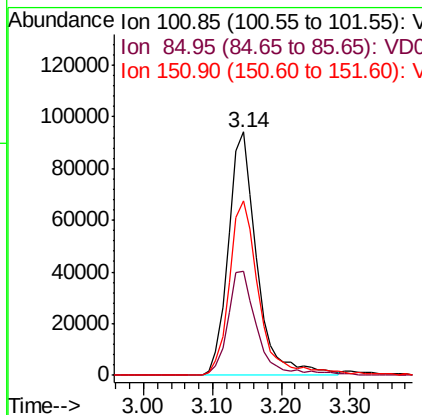
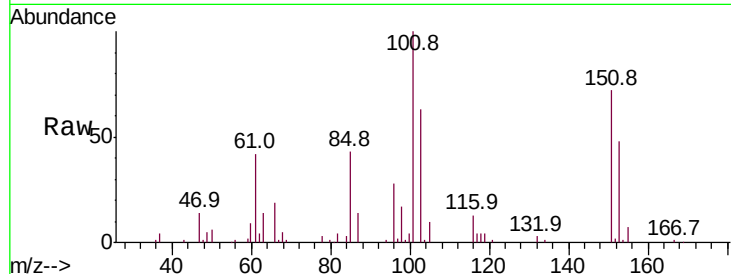
ClientSampleId :

VSTDCCC050

Tot Ion:	101	Resp:	270359
Ion Ratio	Lower	Upper	
101	100		
85	43.0	32.4	48.6
151	71.9	59.4	89.0

Manual Integrations
APPROVED

MMDadoda
5/24/2019 10:45:02 PM



#10

Methyl Iodide

Concen: 49.284 ug/l

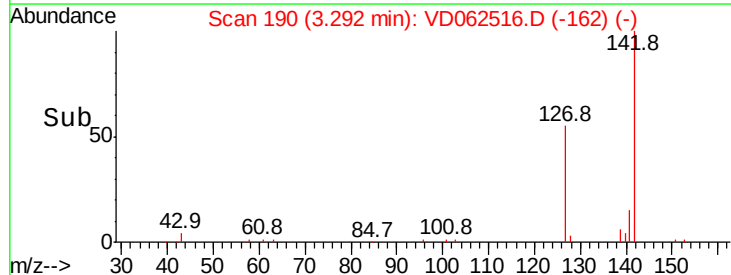
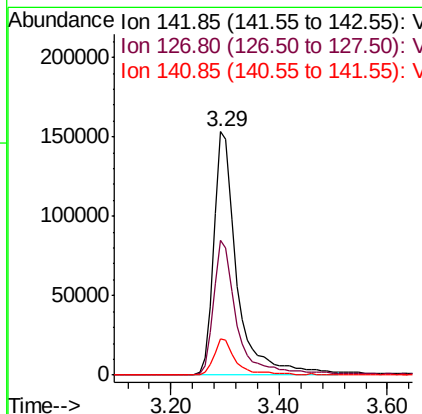
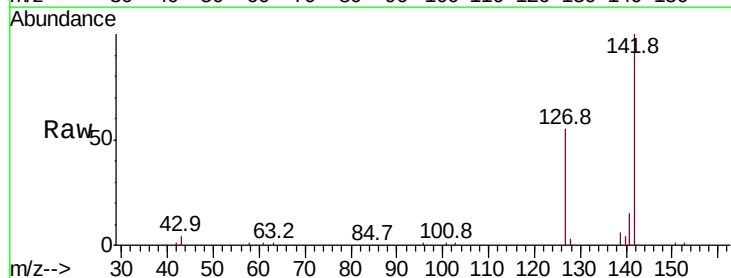
RT: 3.29 min Scan# 190

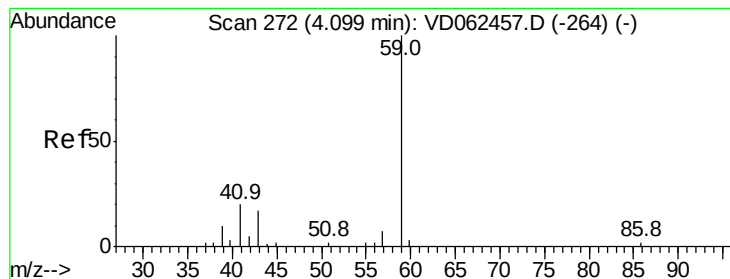
Delta R.T. -0.02 min

Lab File: VD062516.D

Acq: 23 May 2019 12:20

Tgt Ion:	142	Resp:	454868
Ion Ratio	Lower	Upper	
142	100		
127	55.5	38.8	58.2
141	14.7	11.4	17.0





#11

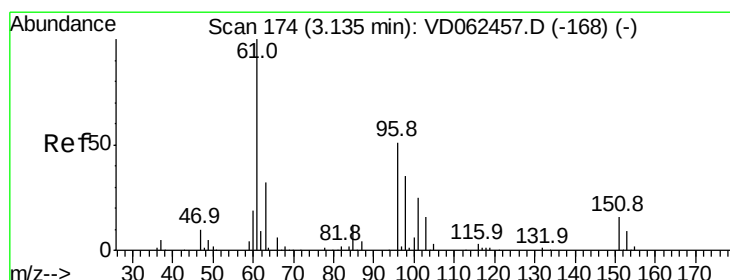
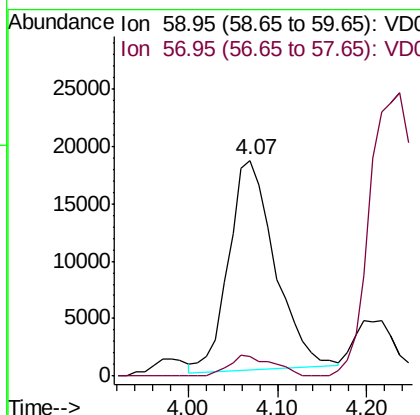
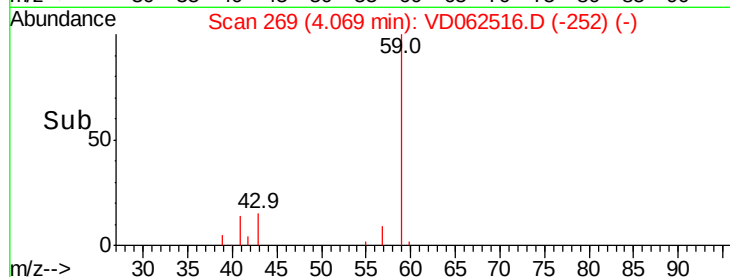
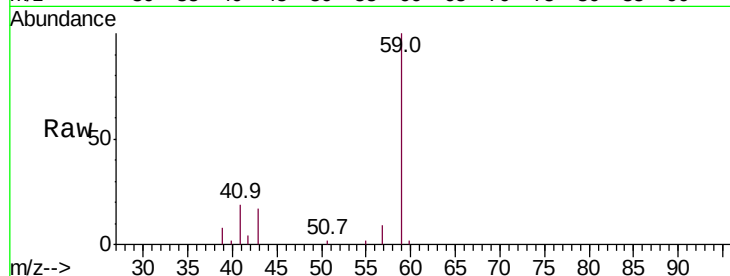
Tert butyl alcohol
Concen: 201.693 ug/l
RT: 4.07 min Scan# 269
Delta R.T. -0.03 min
Lab File: VD062516.D
Acq: 23 May 2019 12:20

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
59	100		
57	9.2	6.9	10.3

Manual Integrations
APPROVED

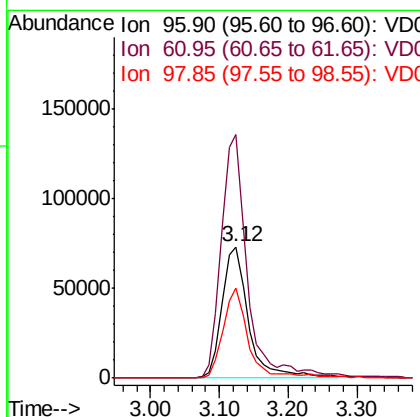
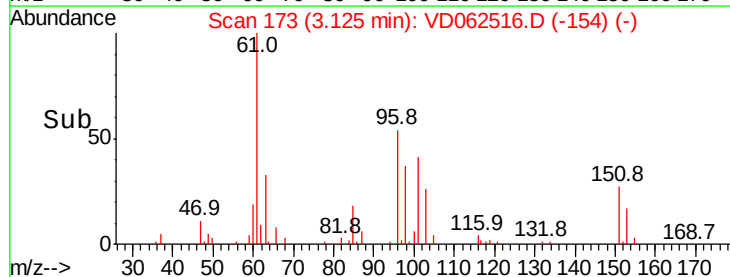
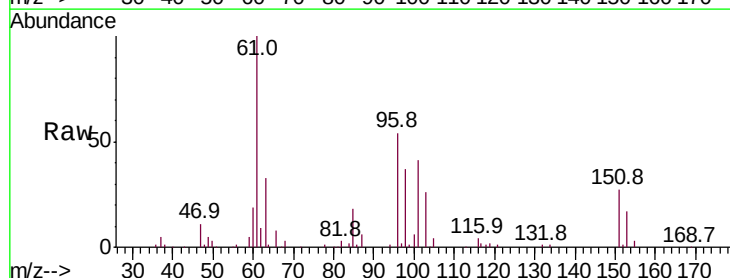
MMDadoda
5/24/2019 10:45:02 PM

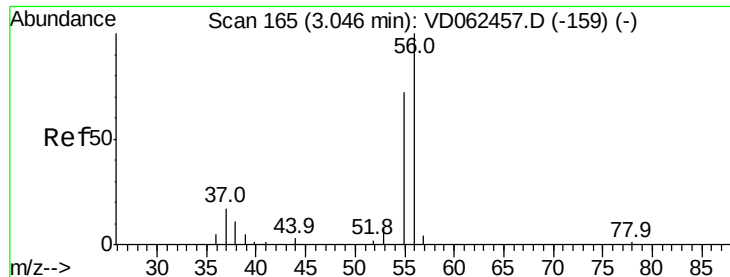


#12

1,1-Dichloroethene
Concen: 40.049 ug/l
RT: 3.12 min Scan# 173
Delta R.T. -0.01 min
Lab File: VD062516.D
Acq: 23 May 2019 12:20

Tgt Ion	Ratio	Lower	Upper
96	100		
61	185.0	129.8	194.8
98	68.0	51.2	76.8





#13

Acrolein

Concen: 252.605 ug/l

RT: 3.03 min Scan# 163

Delta R.T. -0.02 min

Lab File: VD062516.D

Acq: 23 May 2019 12:20

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 56 Resp: 68467

Ion Ratio Lower Upper

56 100

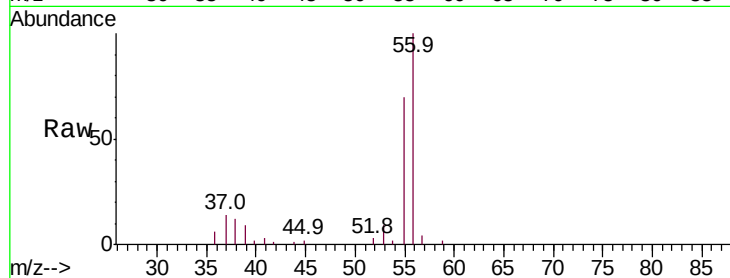
55 70.5 51.4 77.2

Manual Integrations

APPROVED

MMDadoda

5/24/2019 10:45:02 PM



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC

3.03

25000

20000

15000

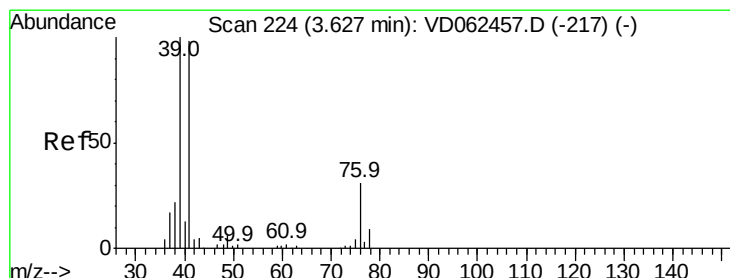
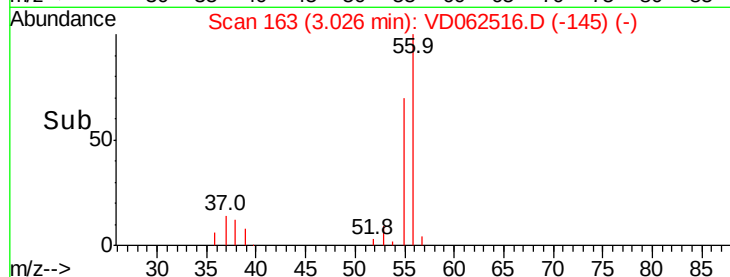
10000

5000

0

Time-->

2.90 3.00 3.10 3.20



#14

Allyl chloride

Concen: 46.068 ug/l

RT: 3.61 min Scan# 222

Delta R.T. -0.02 min

Lab File: VD062516.D

Acq: 23 May 2019 12:20

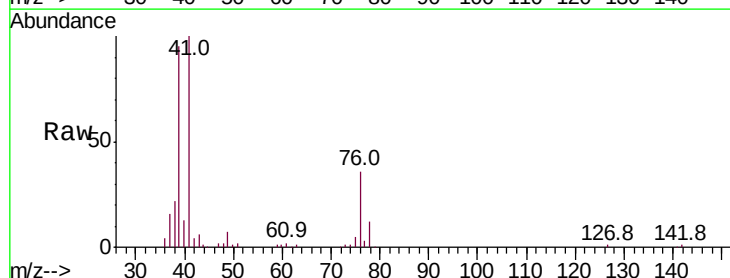
Tgt Ion: 41 Resp: 332288

Ion Ratio Lower Upper

41 100

39 94.8 60.5 90.7#

76 35.7 31.8 47.8



Abundance Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 75.95 (75.65 to 76.65): VDC

3.61

150000

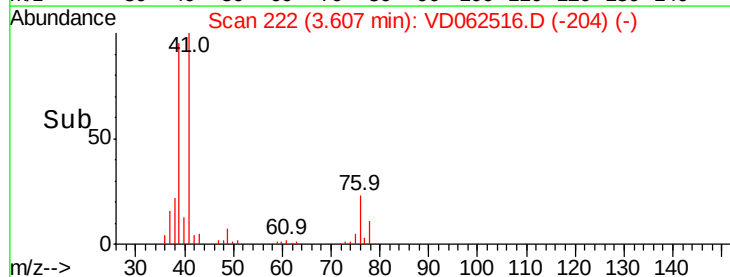
100000

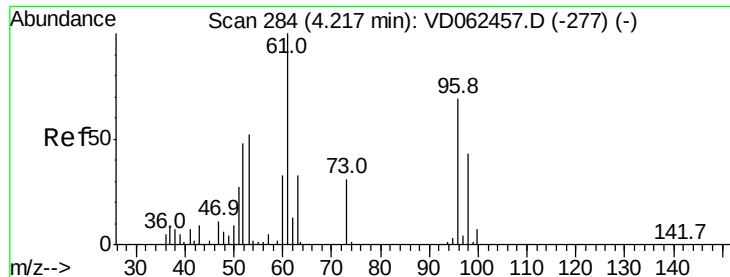
50000

0

Time-->

3.50 3.60 3.70 3.80





#15

Acrylonitrile

Concen: 247.049 ug/l

RT: 4.19 min Scan# 281

Delta R.T. -0.03 min

Lab File: VD062516.D

Acq: 23 May 2019 12:20

Instrument :

MSVOA_D

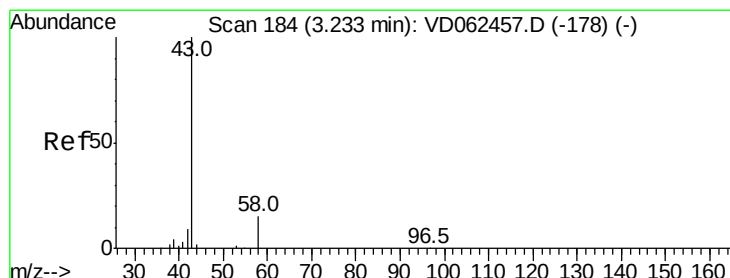
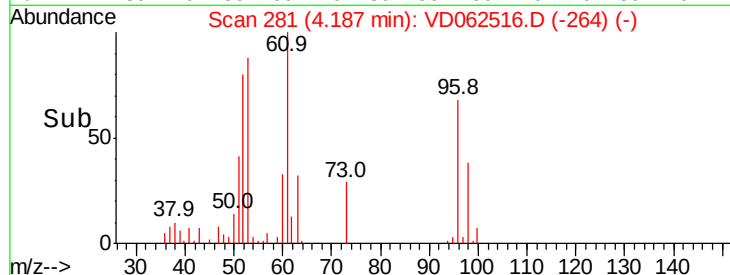
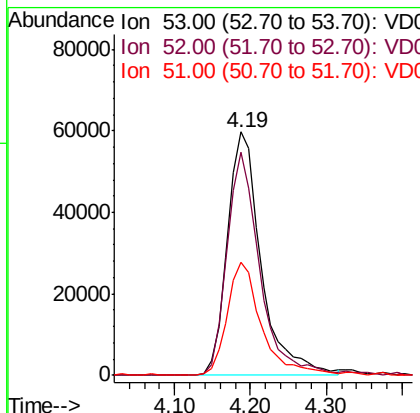
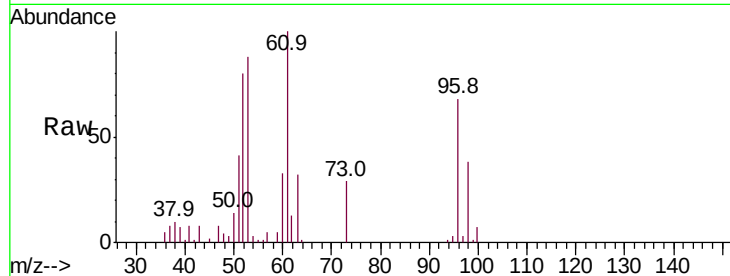
ClientSampleId :

VSTDCCC050

Tot Ion:	53	Resp:	184765
Ion	Ratio	Lower	Upper
53	100		
52	91.4	65.0	97.4
51	46.6	32.6	48.8

Manual Integrations
APPROVED

MMDadoda
5/24/2019 10:45:02 PM



#16

Acetone

Concen: 229.145 ug/l

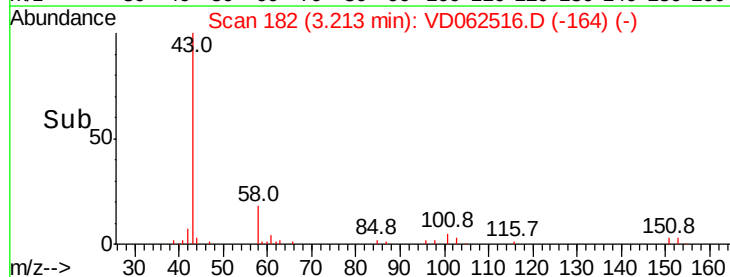
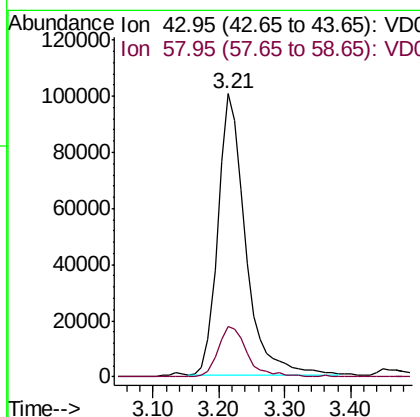
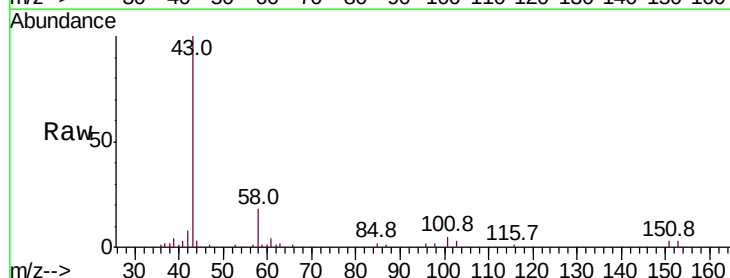
RT: 3.21 min Scan# 182

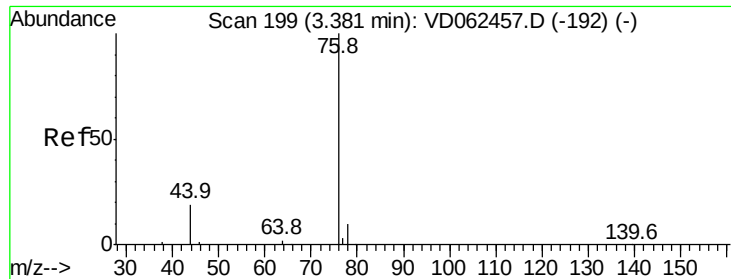
Delta R.T. -0.02 min

Lab File: VD062516.D

Acq: 23 May 2019 12:20

Tgt Ion:	43	Resp:	290349
Ion	Ratio	Lower	Upper
43	100		
58	17.8	19.9	29.9#





#17

Carbon Disulfide

Concen: 45.843 ug/l

RT: 3.37 min Scan# 198

Delta R.T. -0.01 min

Lab File: VD062516.D

Acq: 23 May 2019 12:20

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 76 Resp: 679189

Ion Ratio Lower Upper

76 100

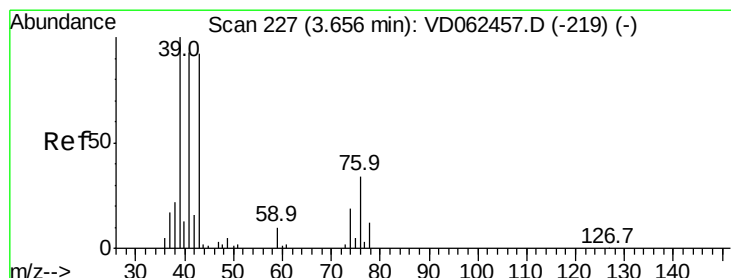
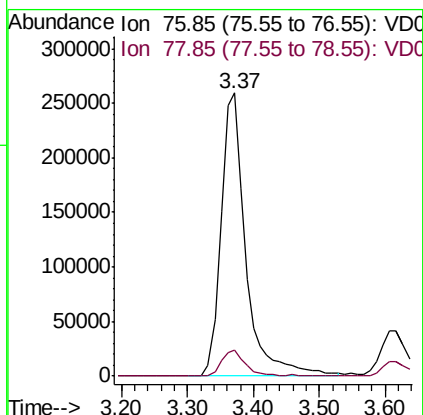
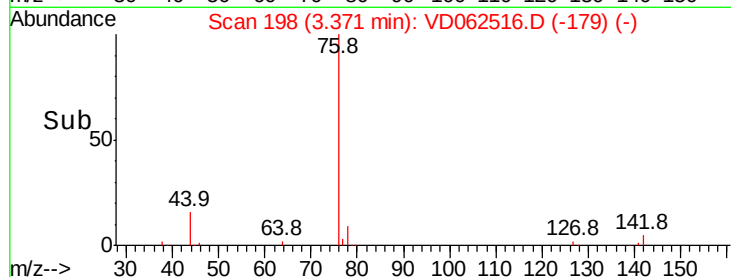
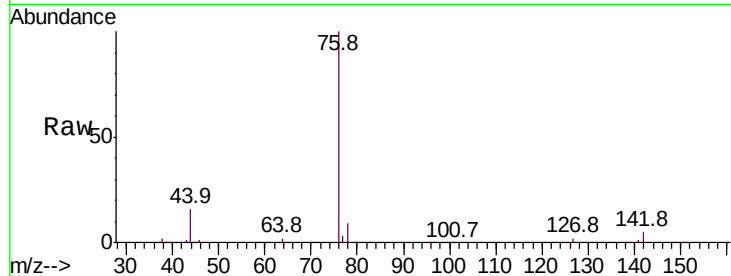
78 9.0 7.2 10.8

Manual Integrations

APPROVED

MMDadoda

5/24/2019 10:45:02 PM



#18

Methyl Acetate

Concen: 42.166 ug/l

RT: 3.64 min Scan# 225

Delta R.T. -0.02 min

Lab File: VD062516.D

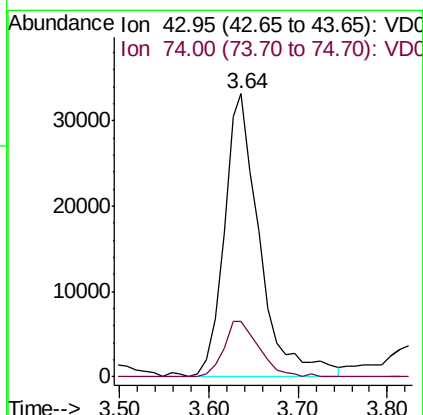
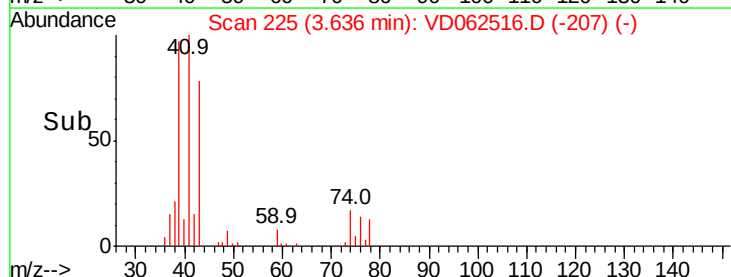
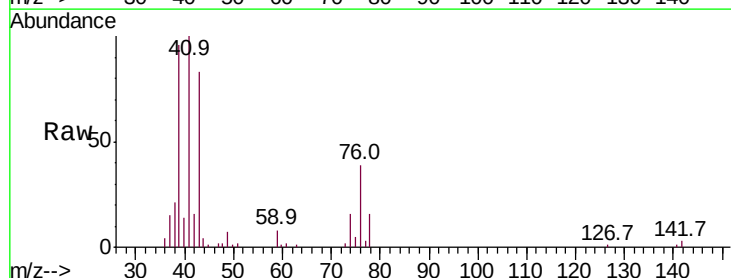
Acq: 23 May 2019 12:20

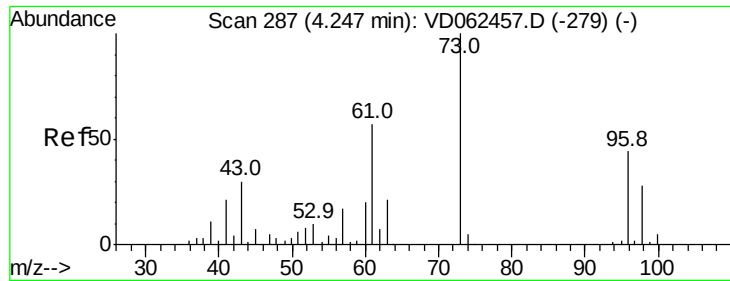
Tgt Ion: 43 Resp: 92194

Ion Ratio Lower Upper

43 100

74 19.8 18.0 27.0





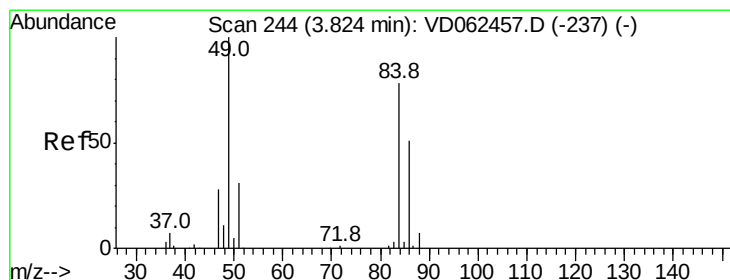
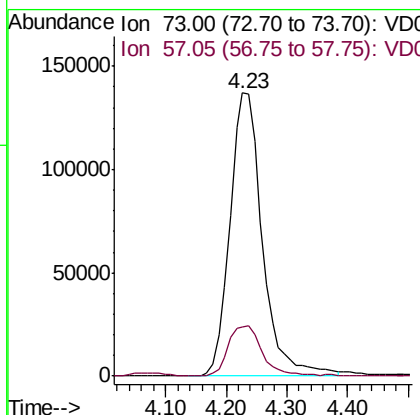
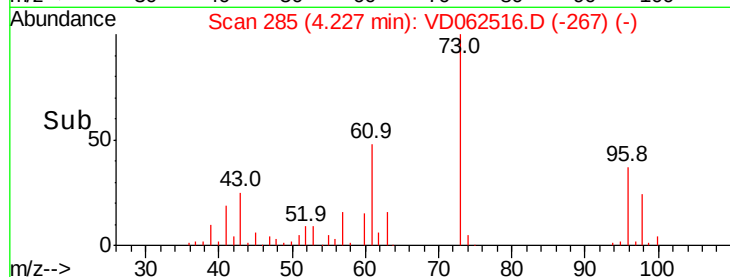
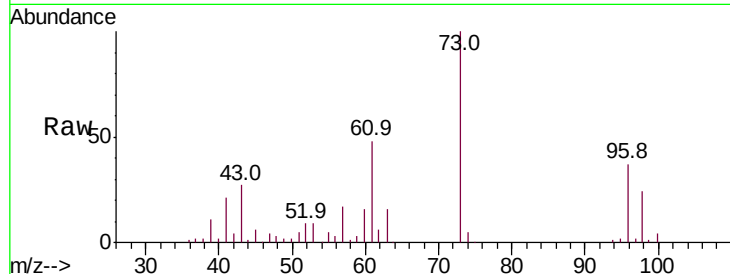
#19
Methyl tert-butyl Ether
Concen: 45.168 ug/l
RT: 4.23 min Scan# 285
Delta R.T. -0.02 min
Lab File: VD062516.D
Acq: 23 May 2019 12:20

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 73 Resp: 510352
Ion Ratio Lower Upper
73 100
57 17.4 16.3 24.5

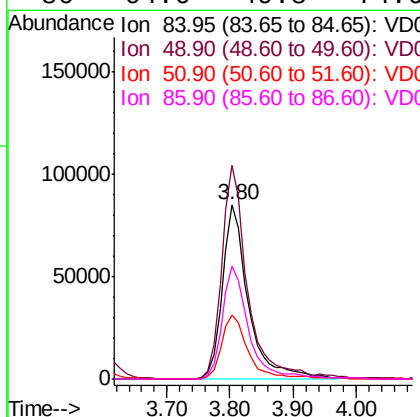
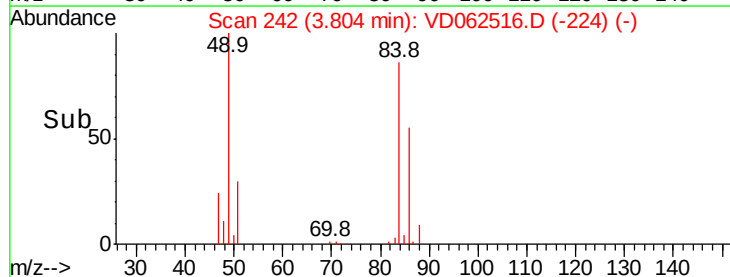
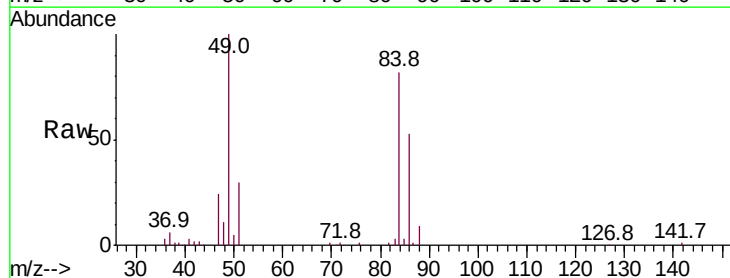
Manual Integrations
APPROVED

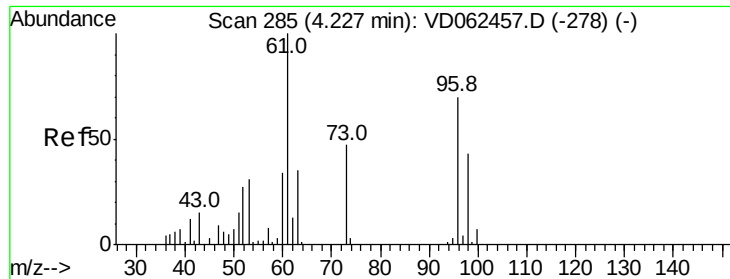
MMDadoda
5/24/2019 10:45:02 PM



#20
Methylene Chloride
Concen: 44.620 ug/l
RT: 3.80 min Scan# 242
Delta R.T. -0.02 min
Lab File: VD062516.D
Acq: 23 May 2019 12:20

Tgt Ion: 84 Resp: 244867
Ion Ratio Lower Upper
84 100
49 122.4 94.0 141.0
51 36.9 29.0 43.4
86 64.6 49.8 74.6





#21

trans-1,2-Dichloroethene

Concen: 46.938 ug/l

RT: 4.21 min Scan# 283

Delta R.T. -0.02 min

Lab File: VD062516.D

Acq: 23 May 2019 12:20

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 96 Resp: 268811

Ion Ratio Lower Upper

96 100

61 147.6 104.4 156.6

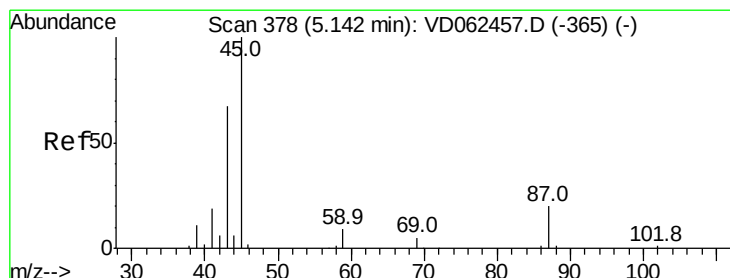
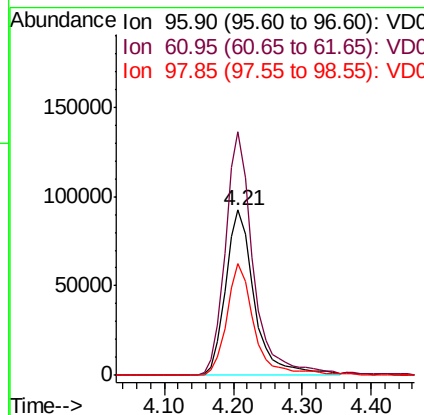
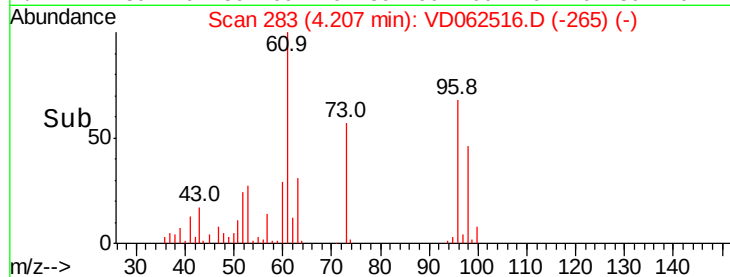
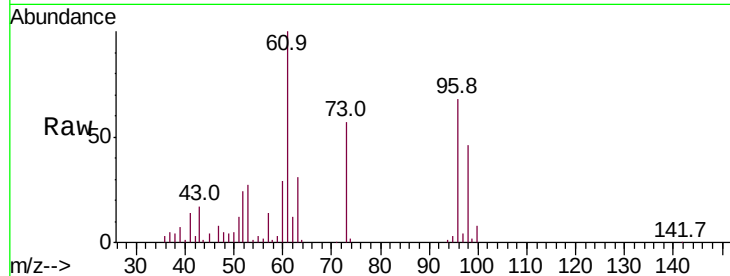
98 67.5 51.8 77.8

Manual Integrations

APPROVED

MMDadoda

5/24/2019 10:45:02 PM



#22

Diisopropyl ether

Concen: 46.371 ug/l

RT: 5.11 min Scan# 375

Delta R.T. -0.03 min

Lab File: VD062516.D

Acq: 23 May 2019 12:20

Tgt Ion: 45 Resp: 711939

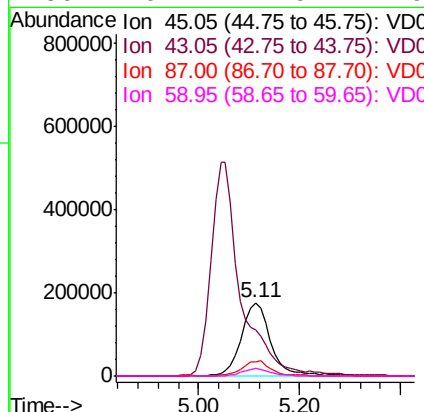
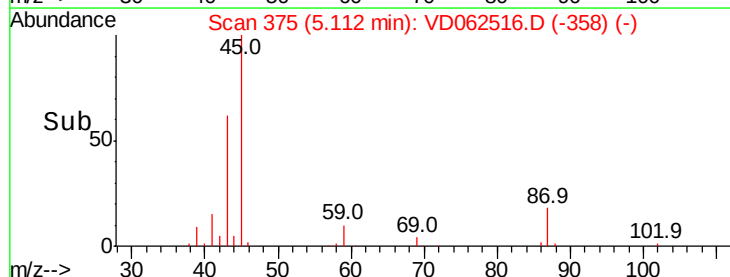
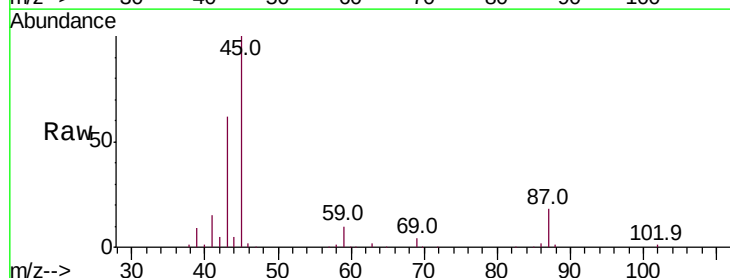
Ion Ratio Lower Upper

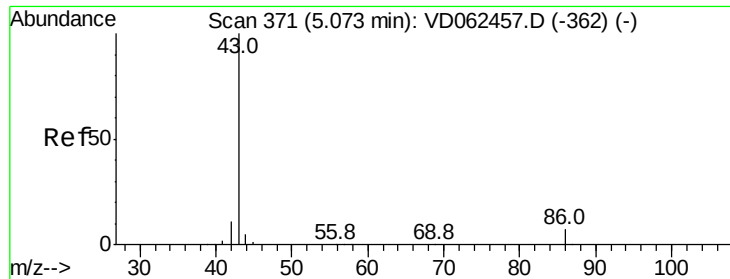
45 100

43 62.3 46.2 69.2

87 18.5 15.9 23.9

59 9.7 7.9 11.9





#23

Vinyl Acetate

Concen: 224.397 ug/l

RT: 5.04 min Scan# 368

Delta R.T. -0.03 min

Lab File: VD062516.D

Acq: 23 May 2019 12:20

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 2081780

Ion Ratio Lower Upper

43 100

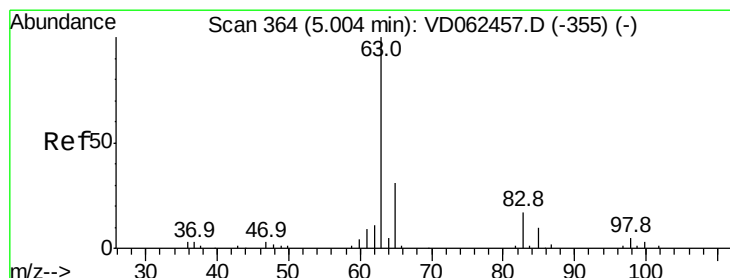
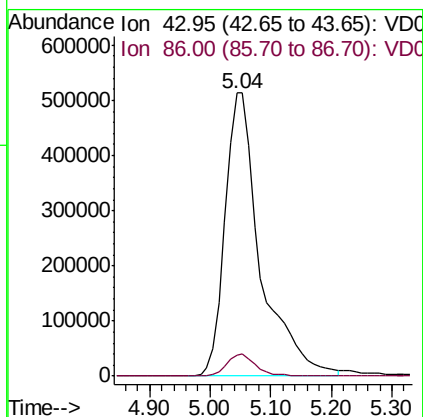
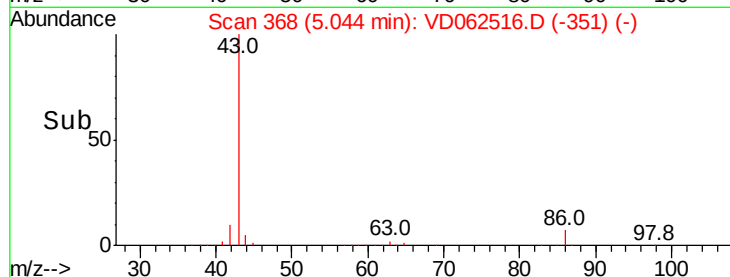
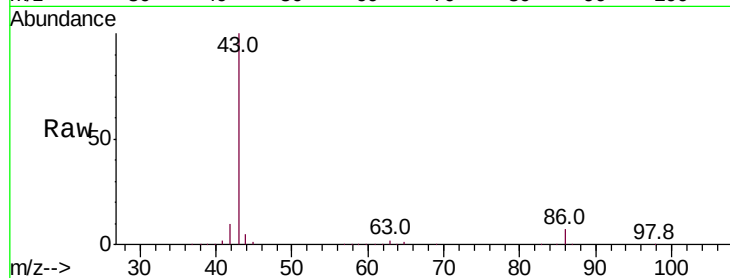
86 7.5 6.4 9.6

Manual Integrations

APPROVED

MMDadoda

5/24/2019 10:45:02 PM



#24

1,1-Dichloroethane

Concen: 43.732 ug/l

RT: 4.97 min Scan# 361

Delta R.T. -0.03 min

Lab File: VD062516.D

Acq: 23 May 2019 12:20

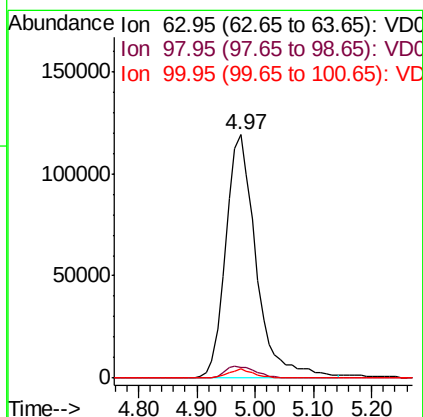
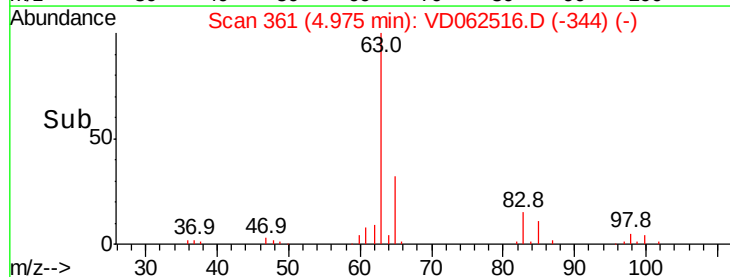
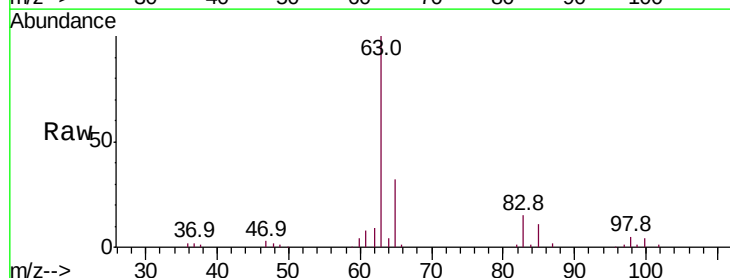
Tgt Ion: 63 Resp: 432426

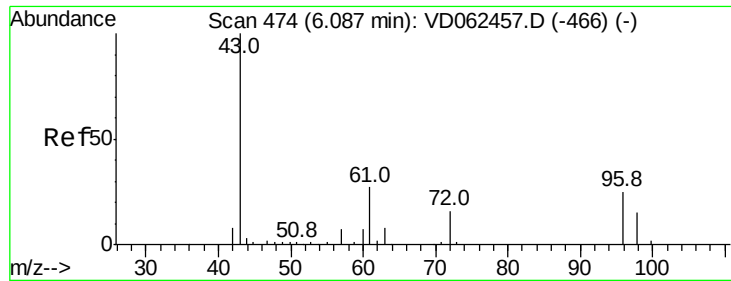
Ion Ratio Lower Upper

63 100

98 4.5 2.8 8.4

100 3.7 1.8 5.5





#25

2-Butanone

Concen: 218.058 ug/l

RT: 6.07 min Scan# 472

Delta R.T. -0.02 min

Lab File: VD062516.D

Acq: 23 May 2019 12:20

Instrument :

MSVOA_D

ClientSampled :

VSTDCCC050

Tot Ion: 43 Resp: 288984

Ion Ratio Lower Upper

43 100

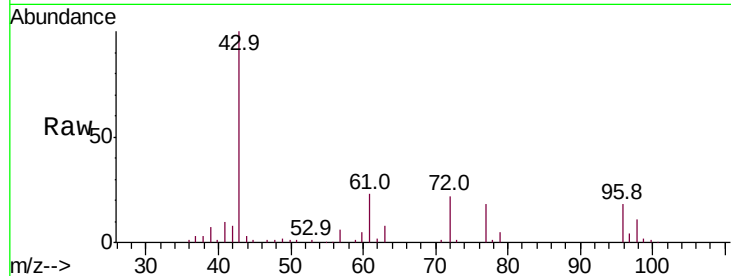
72 21.9 16.2 24.4

Manual Integrations

APPROVED

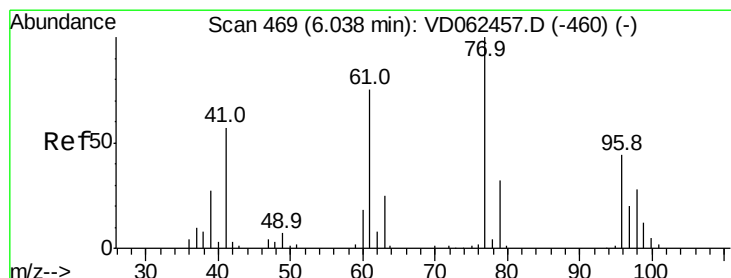
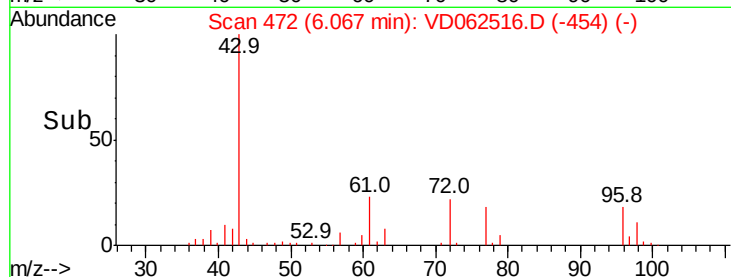
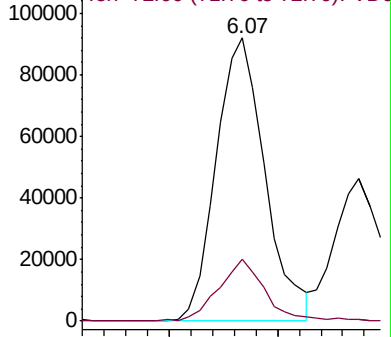
MMDadoda

5/24/2019 10:45:02 PM



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 42.955 ug/l

RT: 6.02 min Scan# 467

Delta R.T. -0.02 min

Lab File: VD062516.D

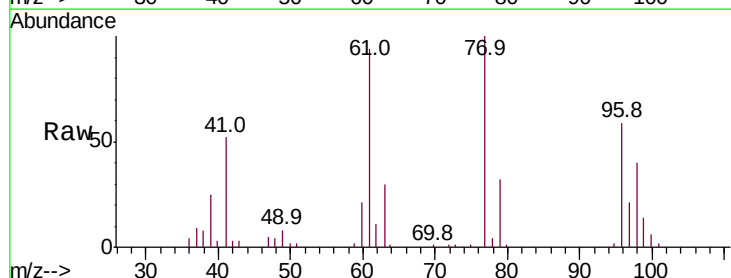
Acq: 23 May 2019 12:20

Tgt Ion: 77 Resp: 457854

Ion Ratio Lower Upper

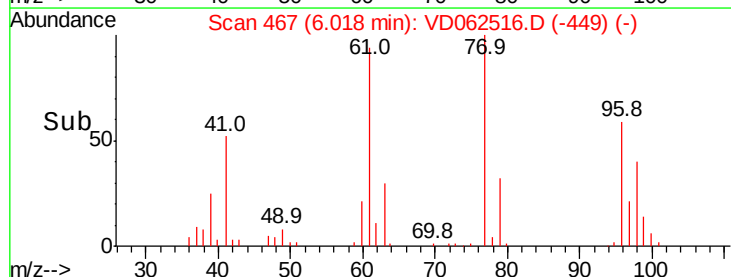
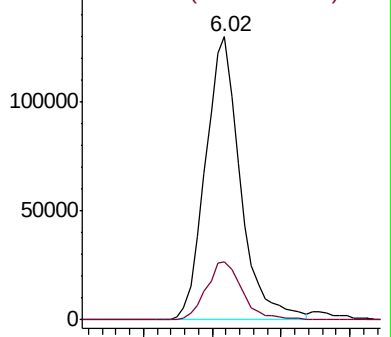
77 100

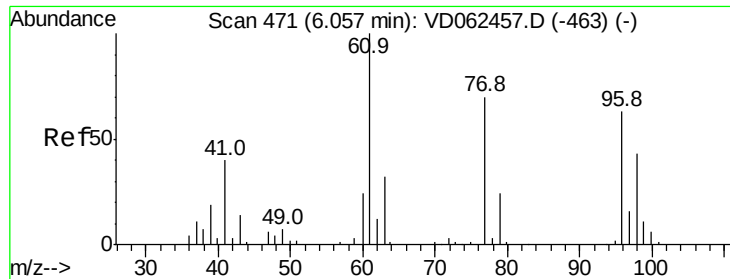
97 20.6 11.9 35.9



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC





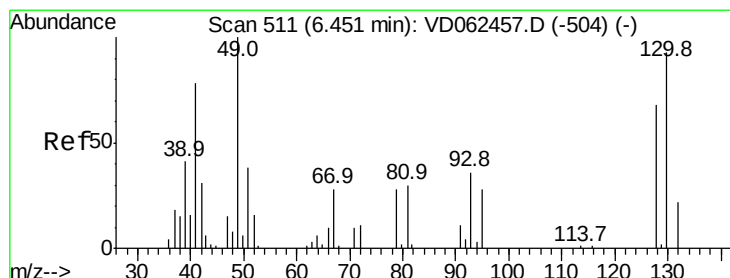
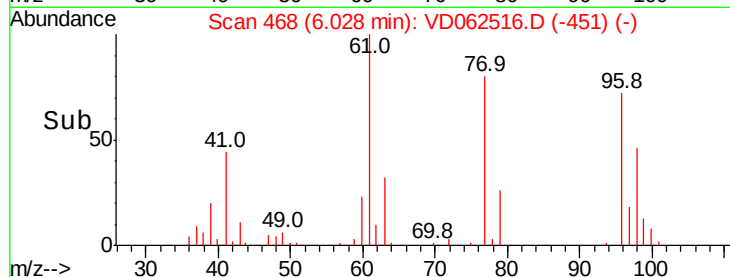
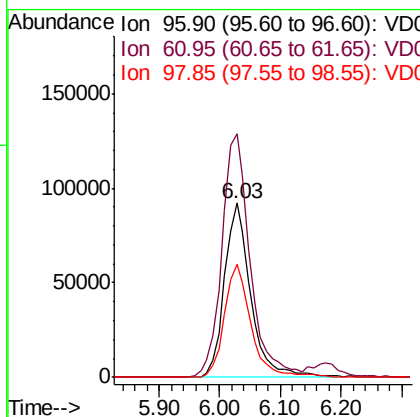
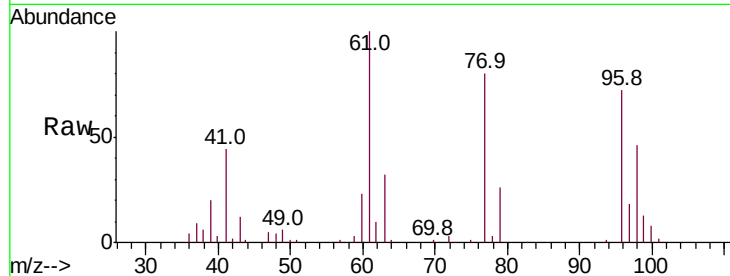
#27
 cis-1,2-Dichloroethene
 Concen: 44.959 ug/l
 RT: 6.03 min Scan# 468
 Delta R.T. -0.03 min
 Lab File: VD062516.D
 Acq: 23 May 2019 12:20

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
96	100	277634		
61	139.7	0.0	279.8	
98	64.6	0.0	136.0	

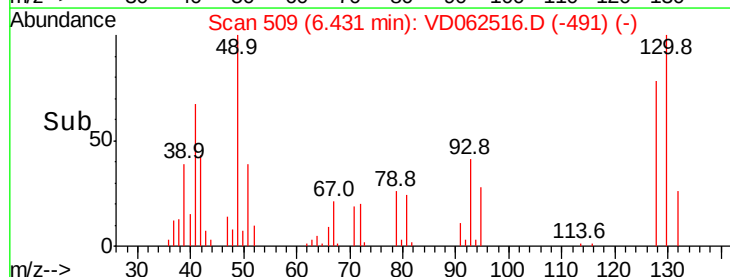
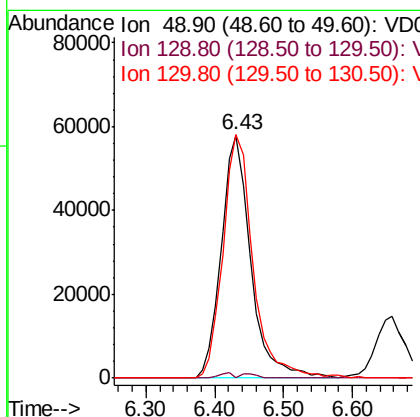
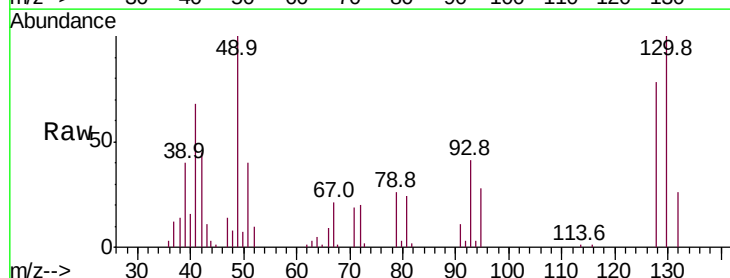
Manual Integrations
 APPROVED

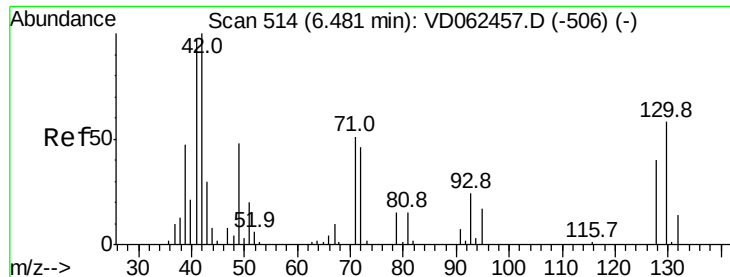
MMDadoda
 5/24/2019 10:45:02 PM



#28
 Bromochloromethane
 Concen: 48.260 ug/l
 RT: 6.43 min Scan# 509
 Delta R.T. -0.02 min
 Lab File: VD062516.D
 Acq: 23 May 2019 12:20

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	171270		
129	0.0	0.0	6.6	
130	100.5	86.7	130.1	





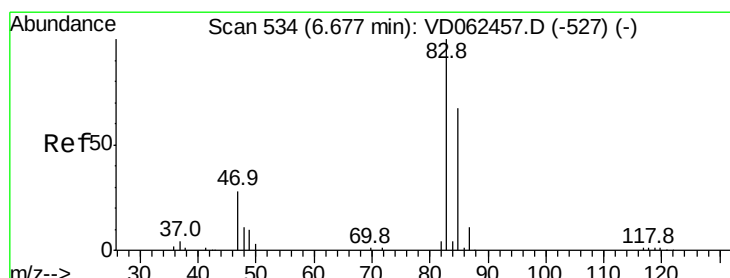
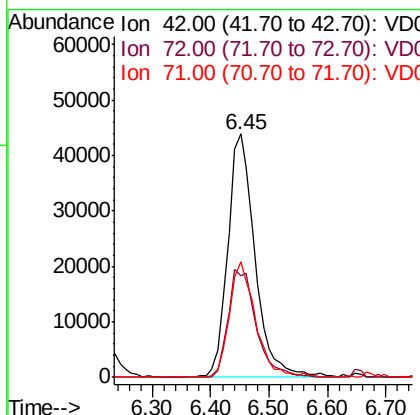
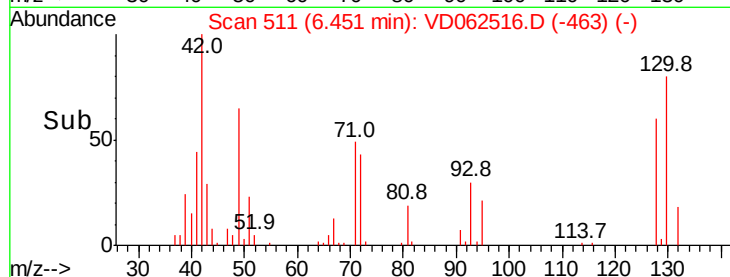
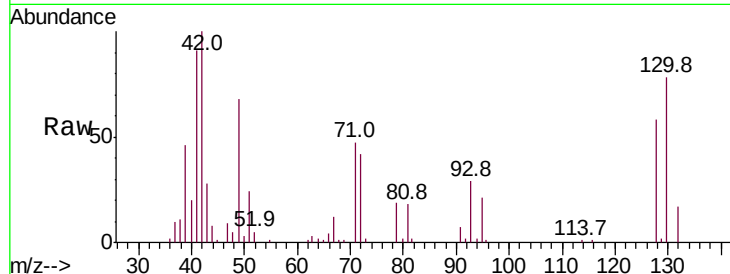
#29
Tetrahydrofuran
Concen: 224.665 ug/l
RT: 6.45 min Scan# 511
Delta R.T. -0.03 min
Lab File: VD062516.D
Acq: 23 May 2019 12:20

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
42	100		
72	45.7	37.8	56.6
71	45.9	36.7	55.1

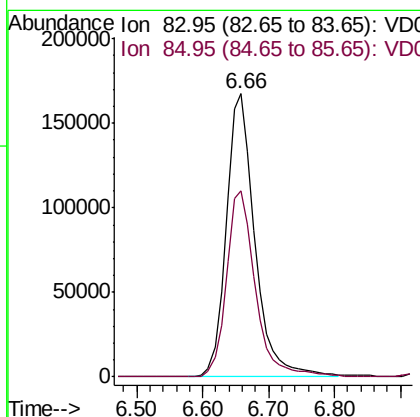
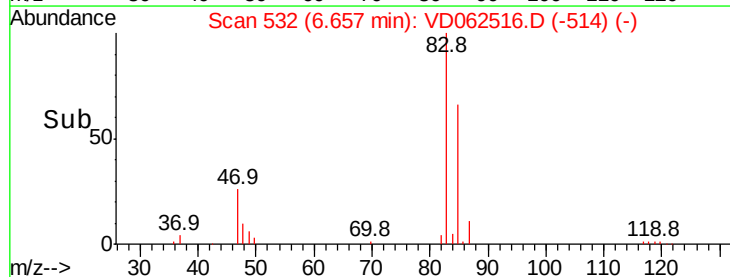
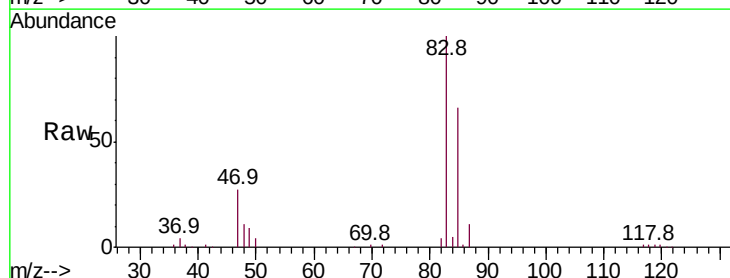
Manual Integrations
APPROVED

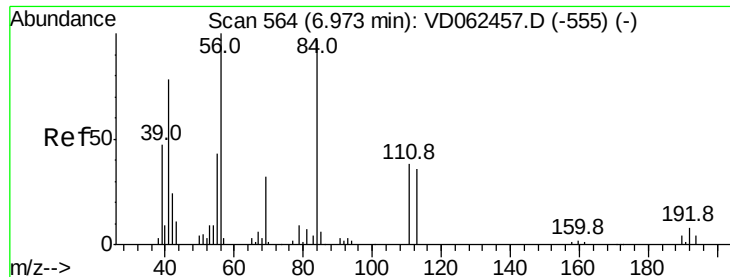
MMDadoda
5/24/2019 10:45:02 PM



#30
Chloroform
Concen: 40.337 ug/l
RT: 6.66 min Scan# 532
Delta R.T. -0.02 min
Lab File: VD062516.D
Acq: 23 May 2019 12:20

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.7	51.7	77.5





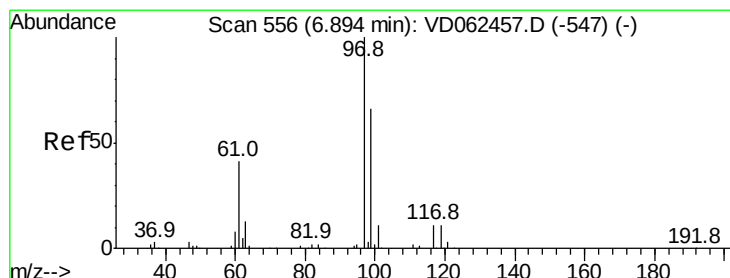
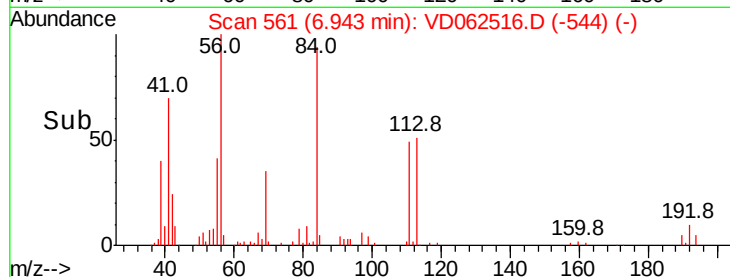
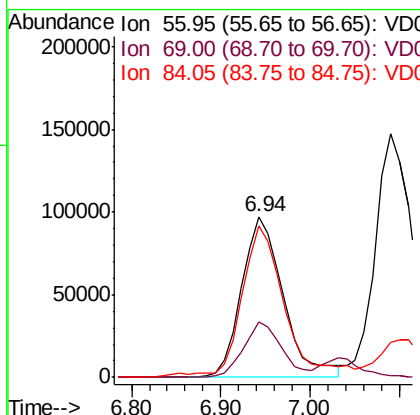
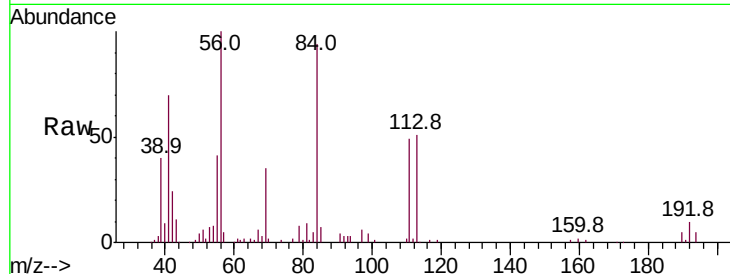
#31
Cyclohexane
Concen: 47.070 ug/l
RT: 6.94 min Scan# 561
Delta R.T. -0.03 min
Lab File: VD062516.D
Acq: 23 May 2019 12:20

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
56	100		
69	34.7	25.8	38.6
84	94.4	72.2	108.4

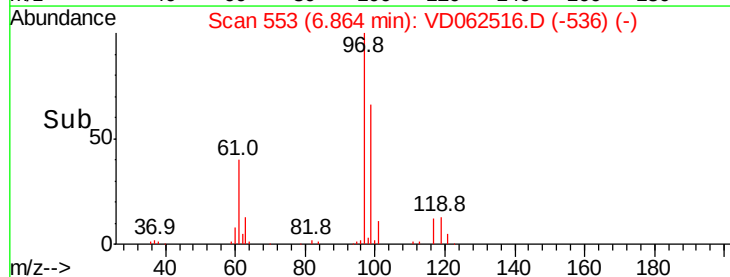
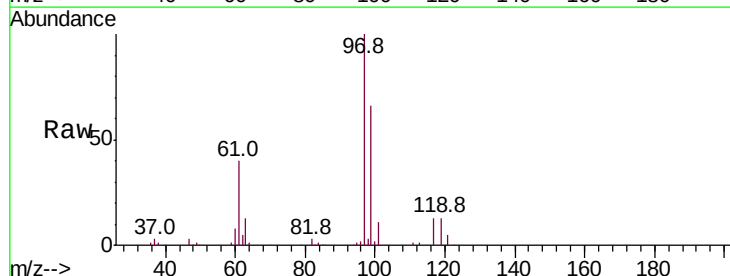
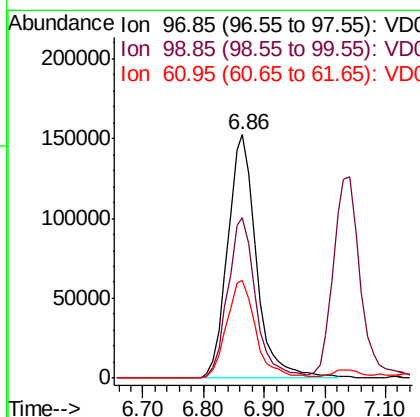
Manual Integrations
APPROVED

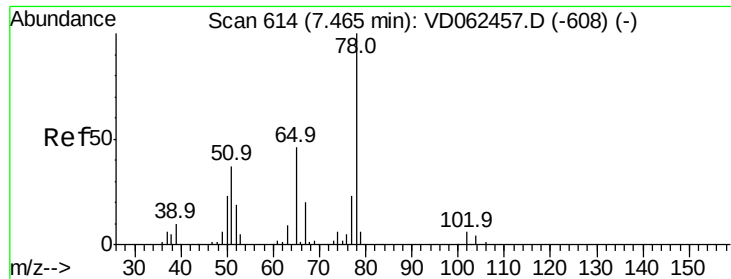
MMDadoda
5/24/2019 10:45:02 PM



#32
1,1,1-Trichloroethane
Concen: 39.278 ug/l
RT: 6.86 min Scan# 553
Delta R.T. -0.03 min
Lab File: VD062516.D
Acq: 23 May 2019 12:20

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.9	52.2	78.2
61	40.1	32.4	48.6





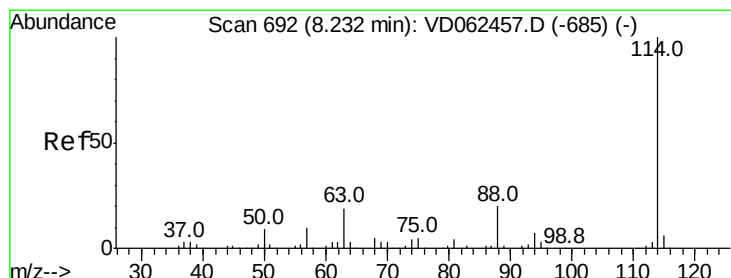
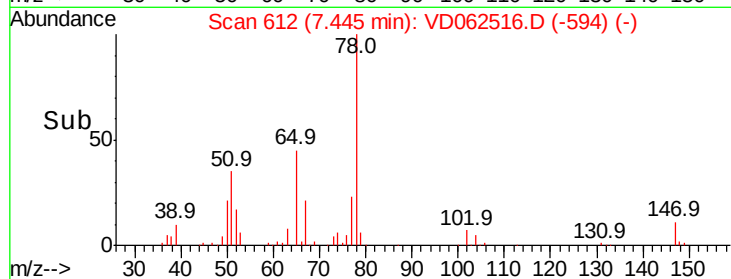
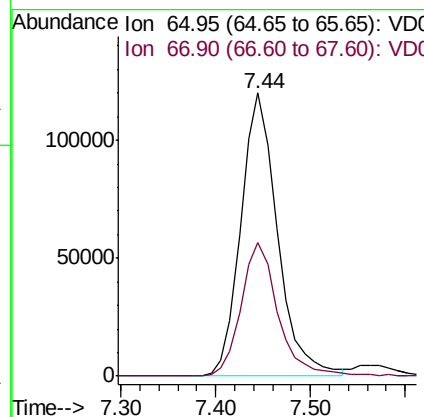
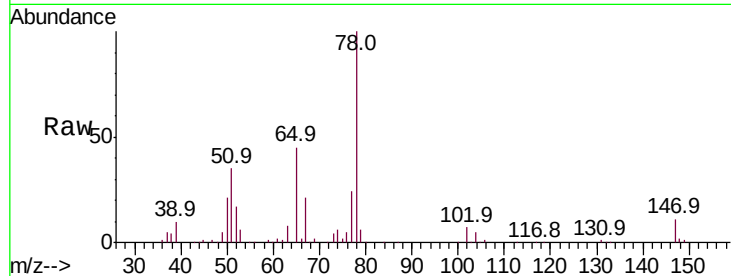
#33
 1,2-Dichloroethane-d4
 Concen: 45.598 ug/l
 RT: 7.44 min Scan# 612
 Delta R.T. -0.02 min
 Lab File: VD062516.D
 Acq: 23 May 2019 12:20

Instrument :
 MSVOA_D
 ClientSampled :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
65	100			
67	47.4	0.0	98.0	

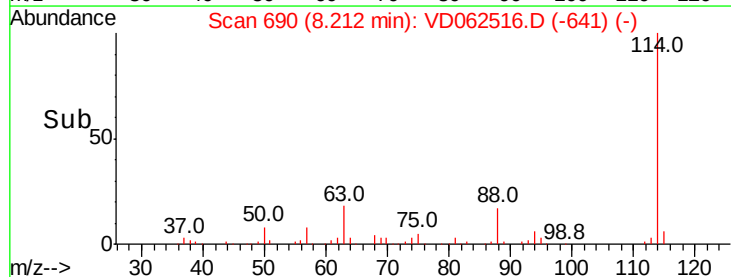
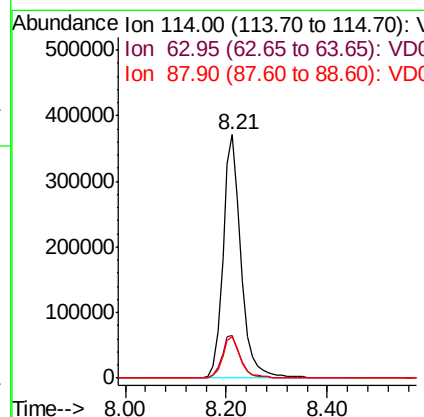
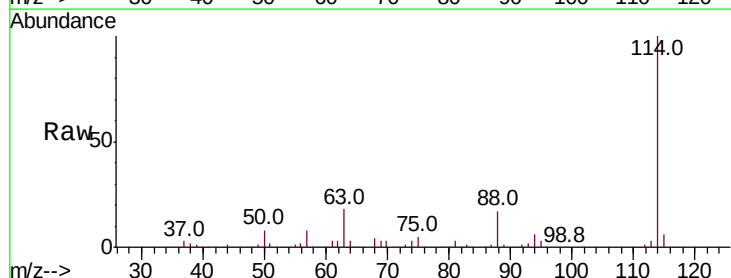
Manual Integrations
 APPROVED

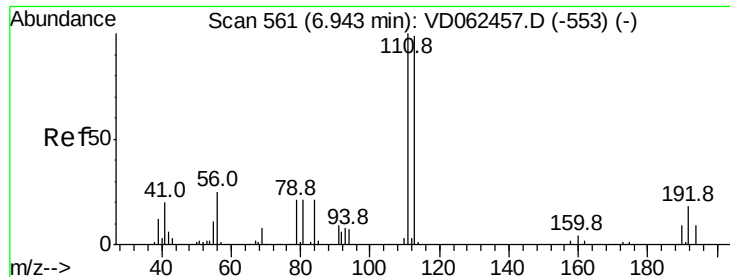
MMDadoda
 5/24/2019 10:45:02 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.21 min Scan# 690
 Delta R.T. -0.02 min
 Lab File: VD062516.D
 Acq: 23 May 2019 12:20

Tgt Ion	Ratio	Resp	Lower	Upper
114	100			
63	17.6	0.0	32.4	
88	17.2	0.0	33.6	





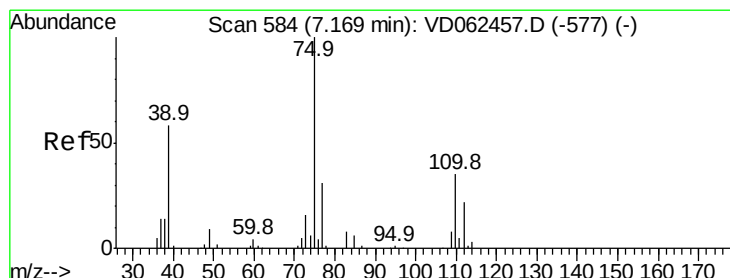
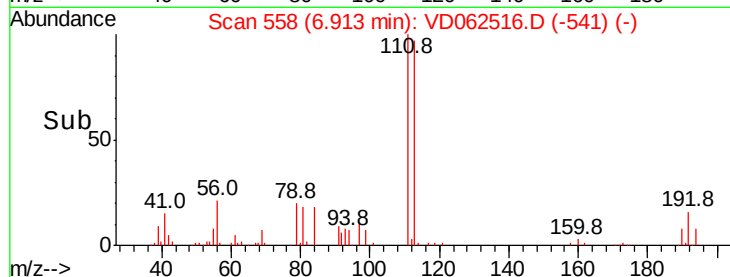
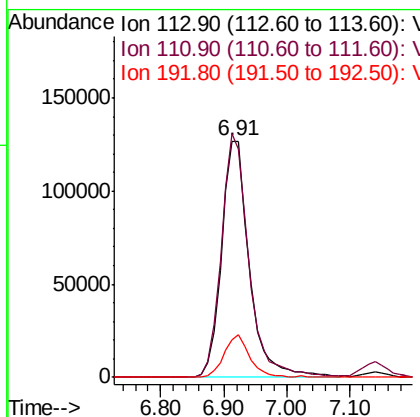
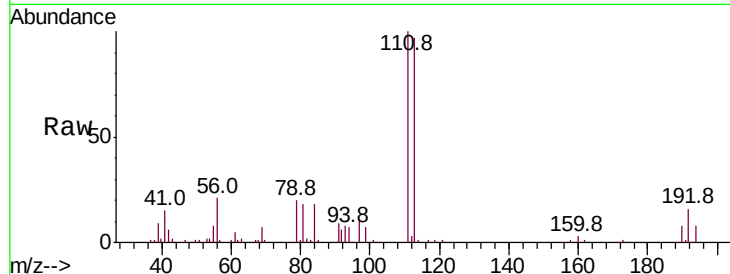
#35
 Dibromofluoromethane
 Concen: 46.691 ug/l
 RT: 6.91 min Scan# 558
 Delta R.T. -0.03 min
 Lab File: VD062516.D
 Acq: 23 May 2019 12:20

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
113	100			
111	103.0	78.5	117.7	
192	16.1	13.0	19.4	

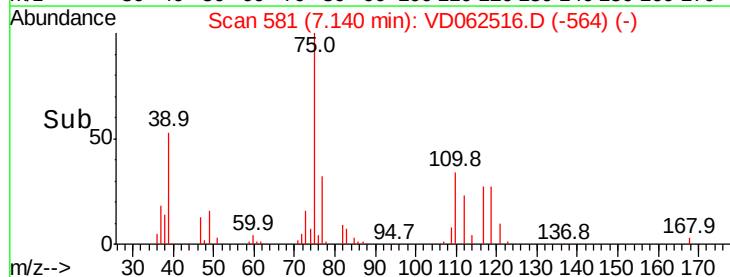
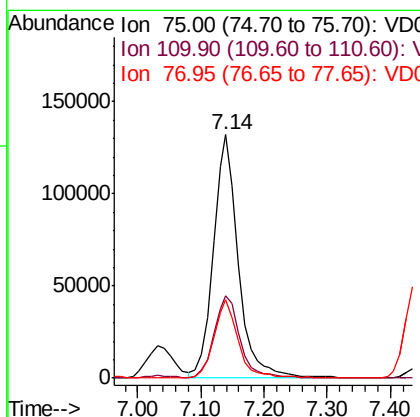
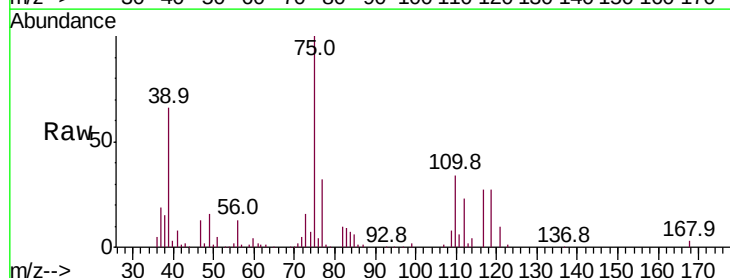
Manual Integrations
 APPROVED

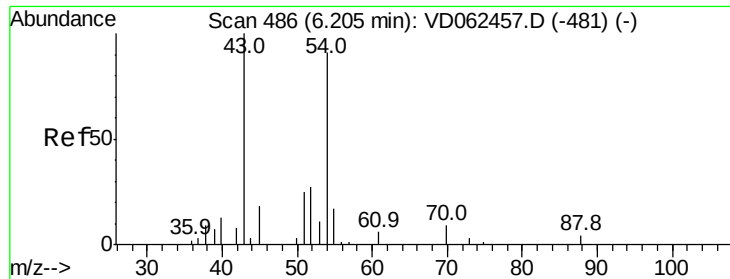
MMDadoda
 5/24/2019 10:45:02 PM



#36
 1,1-Dichloropropene
 Concen: 41.512 ug/l
 RT: 7.14 min Scan# 581
 Delta R.T. -0.03 min
 Lab File: VD062516.D
 Acq: 23 May 2019 12:20

Tgt Ion	Ratio	Resp	Lower	Upper
75	100			
110	33.8	19.1	57.1	
77	32.1	25.6	38.4	





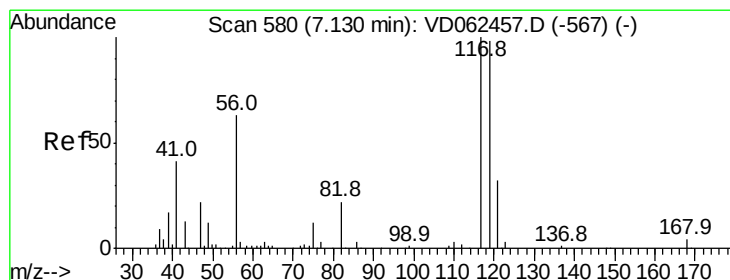
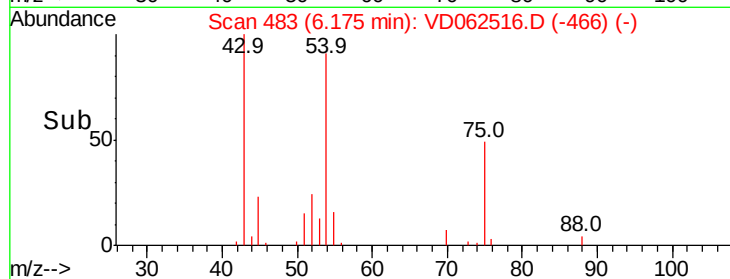
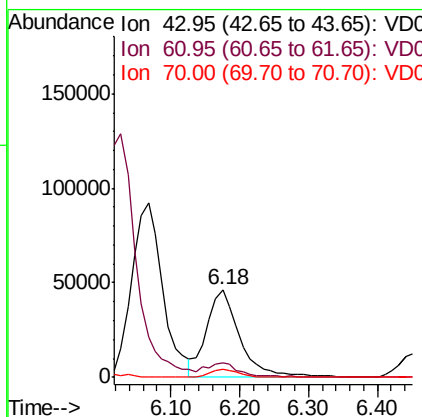
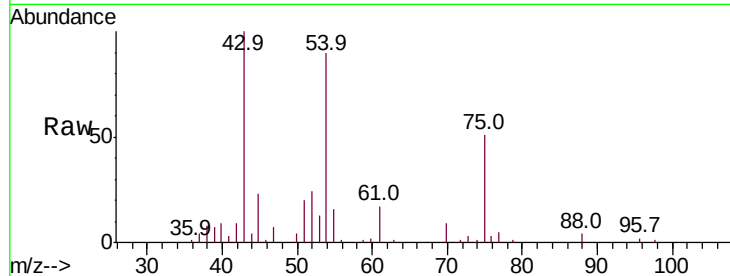
#37
Ethyl Acetate
Concen: 43.832 ug/l
RT: 6.18 min Scan# 483
Delta R.T. -0.03 min
Lab File: VD062516.D
Acq: 23 May 2019 12:20

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
61	16.7	14.7	22.1
70	8.7	7.8	11.6

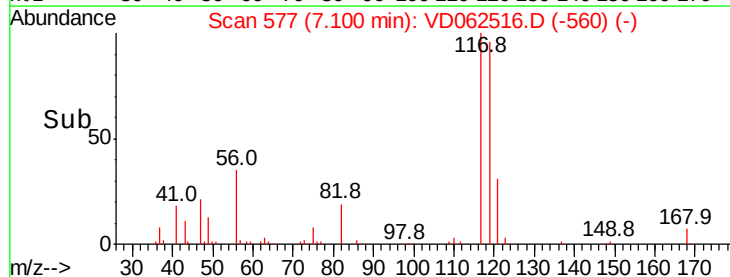
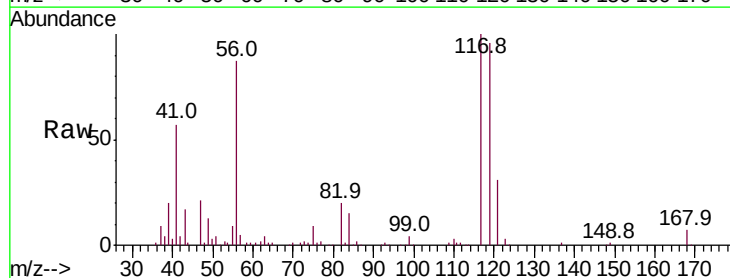
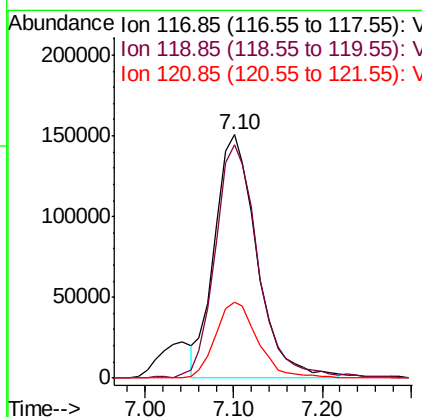
Manual Integrations
APPROVED

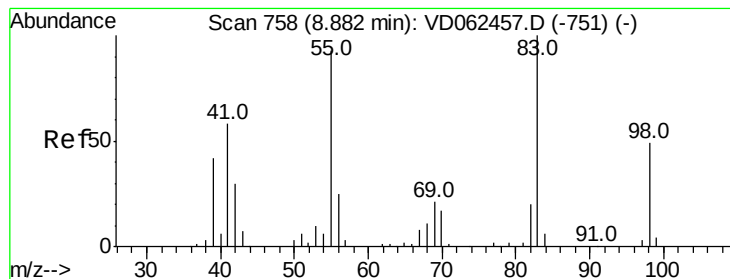
MMDadoda
5/24/2019 10:45:02 PM



#38
Carbon Tetrachloride
Concen: 38.298 ug/l m
RT: 7.10 min Scan# 577
Delta R.T. -0.03 min
Lab File: VD062516.D
Acq: 23 May 2019 12:20

Tgt Ion	Ratio	Lower	Upper
117	100		
119	95.8	75.8	113.8
121	31.0	25.9	38.9





#39

Methylvlcyclohexane

Concen: 43.395 ug/l

RT: 8.86 min Scan# 756

Delta R.T. -0.02 min

Lab File: VD062516.D

Acq: 23 May 2019 12:20

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 83 Resp: 315227

Ion Ratio Lower Upper

83 100

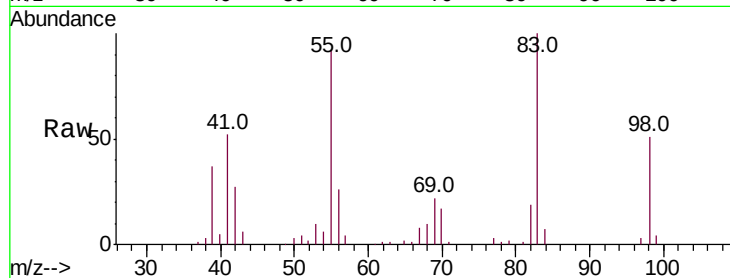
55 92.0 68.2 102.4

98 50.9 38.2 57.4

Manual Integrations
APPROVED

MMDadoda

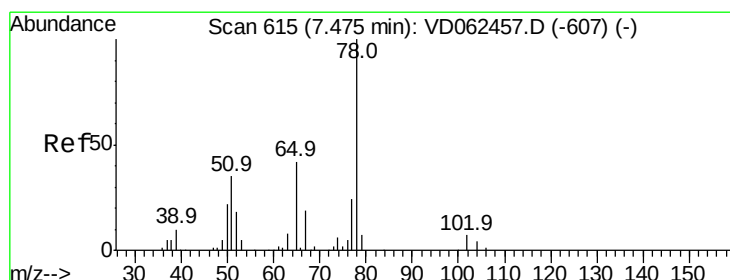
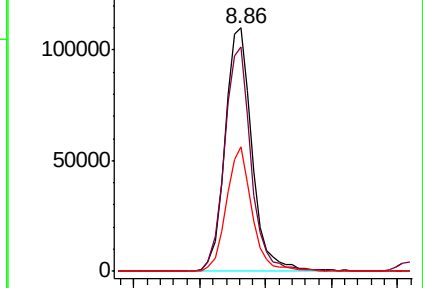
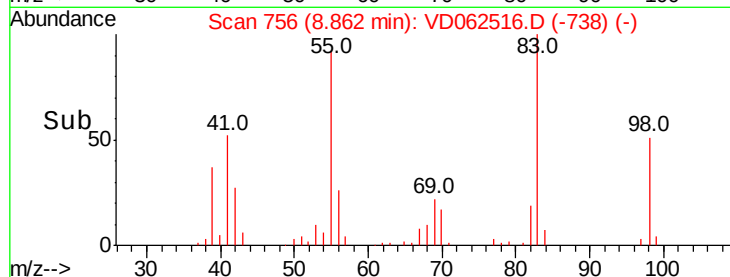
5/24/2019 10:45:02 PM



Abundance Ion 83.05 (82.75 to 83.75): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 98.05 (97.75 to 98.75): VDC



#40

Benzene

Concen: 43.704 ug/l

RT: 7.44 min Scan# 612

Delta R.T. -0.03 min

Lab File: VD062516.D

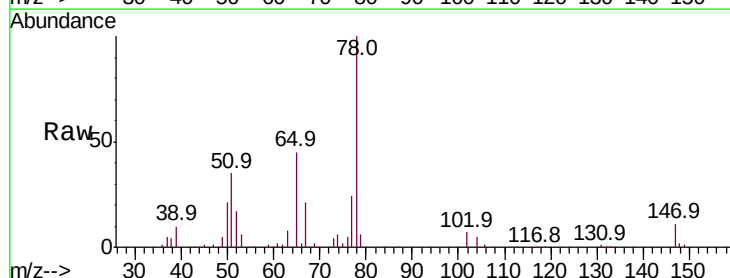
Acq: 23 May 2019 12:20

Tgt Ion: 78 Resp: 755012

Ion Ratio Lower Upper

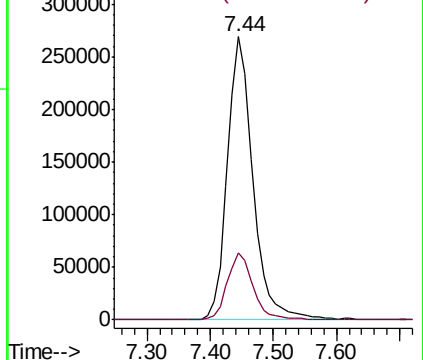
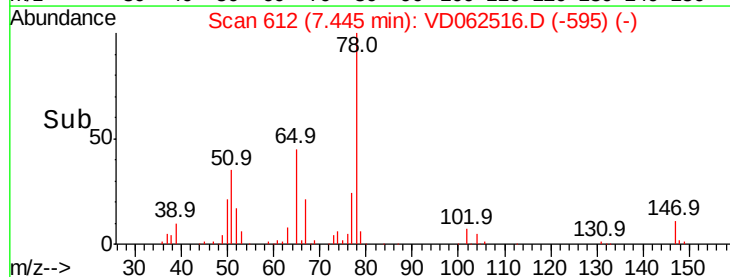
78 100

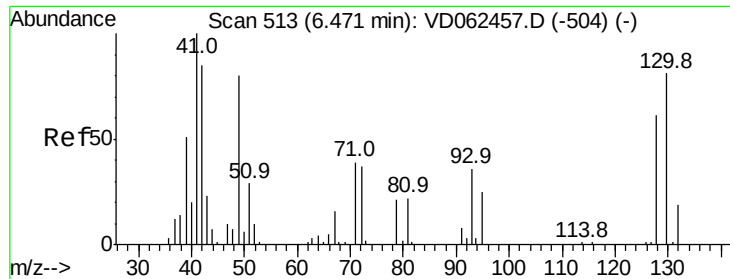
77 23.7 19.7 29.5



Abundance Ion 77.95 (77.65 to 78.65): VDC

Ion 76.95 (76.65 to 77.65): VDC





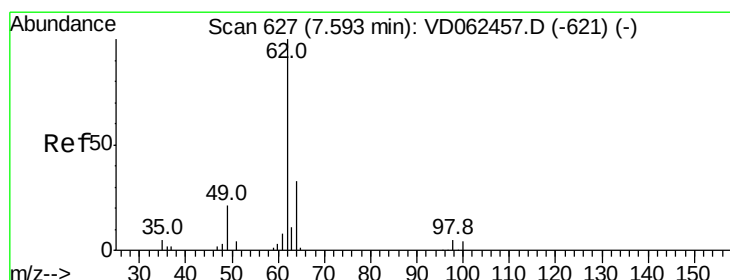
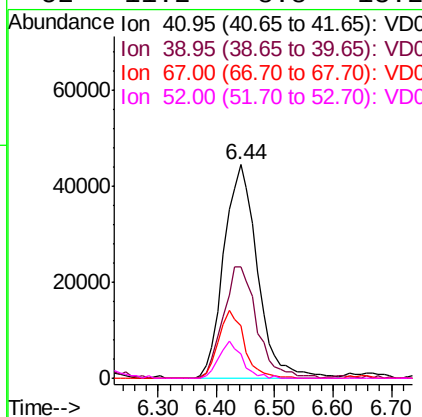
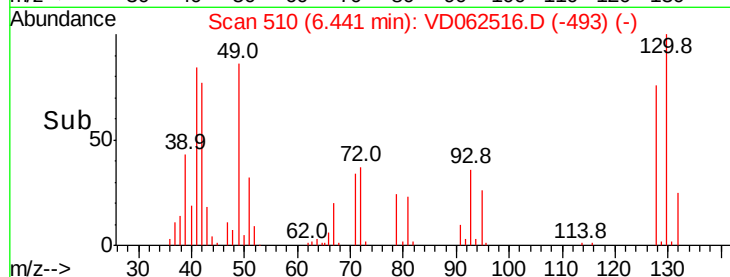
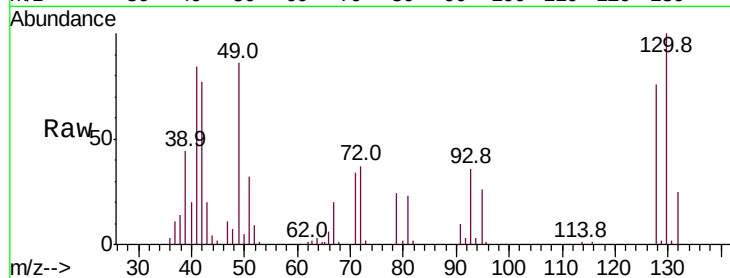
#41
Methacrylonitrile
Concen: 41.588 ug/l
RT: 6.44 min Scan# 510
Delta R.T. -0.03 min
Lab File: VD062516.D
Acq: 23 May 2019 12:20

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
41	100		
39	52.4	34.1	51.1#
67	24.5	23.8	35.6
52	11.2	8.8	13.2

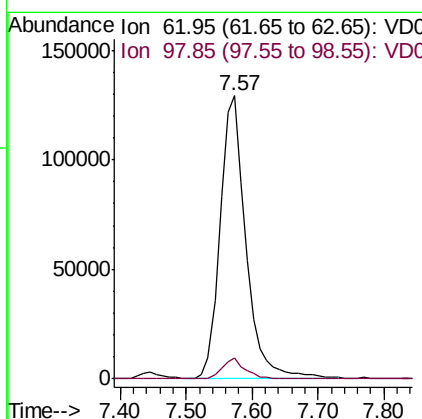
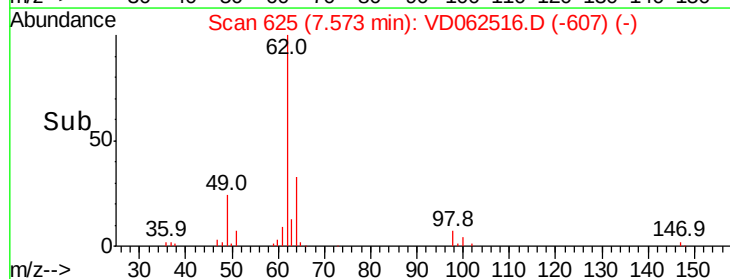
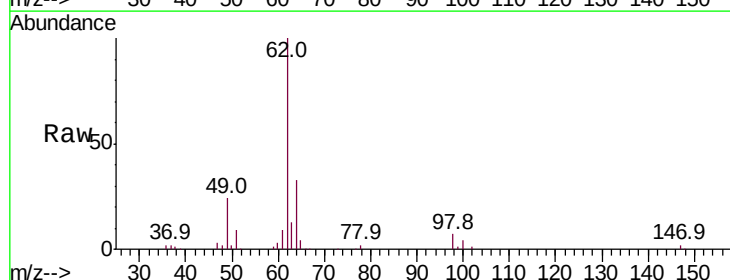
Manual Integrations
APPROVED

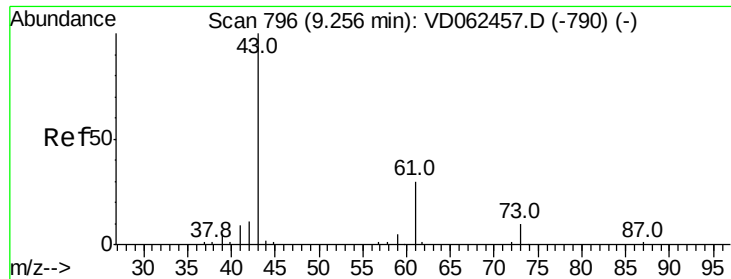
MMDadoda
5/24/2019 10:45:02 PM



#42
1,2-Dichloroethane
Concen: 38.779 ug/l
RT: 7.57 min Scan# 625
Delta R.T. -0.02 min
Lab File: VD062516.D
Acq: 23 May 2019 12:20

Tgt Ion	Ratio	Lower	Upper
62	100		
98	7.4	0.0	17.8





#43

Isopropyl Acetate

Concen: 45.212 ug/l

RT: 9.24 min Scan# 794

Delta R.T. -0.02 min

Lab File: VD062516.D

Acq: 23 May 2019 12:20

Instrument :

MSVOA_D

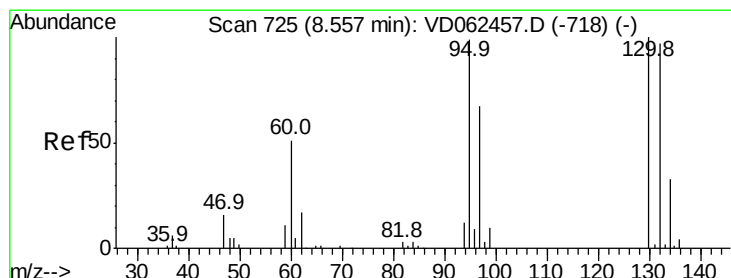
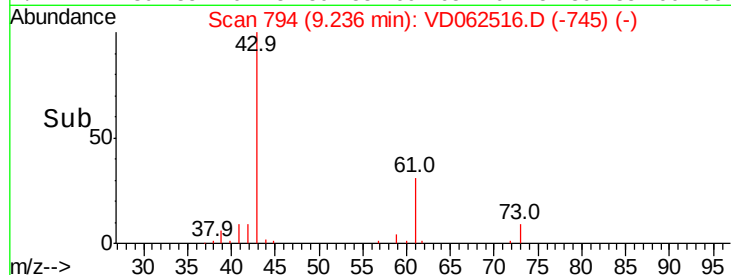
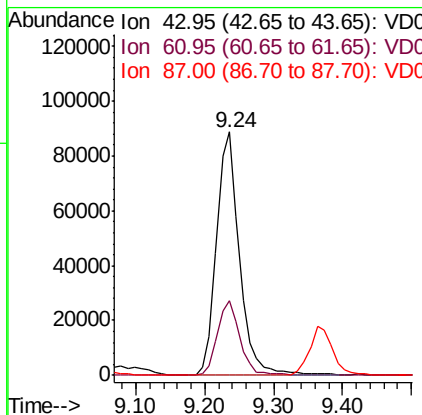
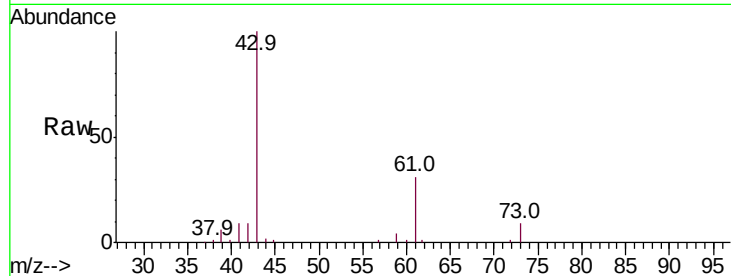
ClientSampleId :

VSTDCCC050

Tot Ion:	43	Resp:	205215
Ion Ratio	Lower	Upper	
43	100		
61	30.6	25.1	37.7
87	0.0	0.0	0.0

Manual Integrations
APPROVED

MMDadoda
5/24/2019 10:45:02 PM



#44

Trichloroethene

Concen: 45.253 ug/l

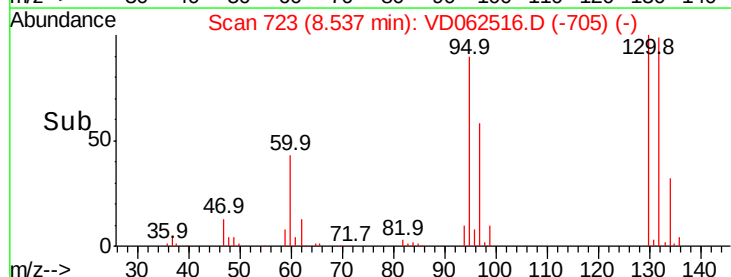
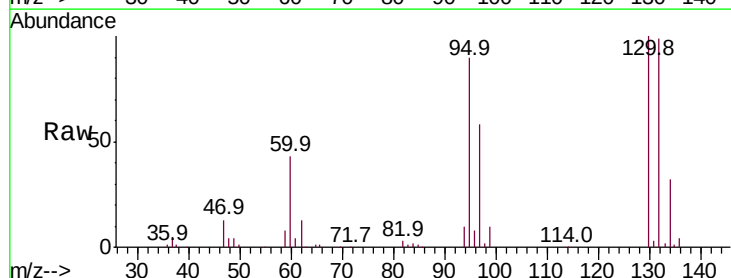
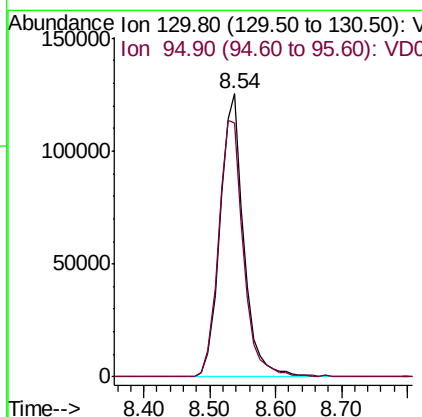
RT: 8.54 min Scan# 723

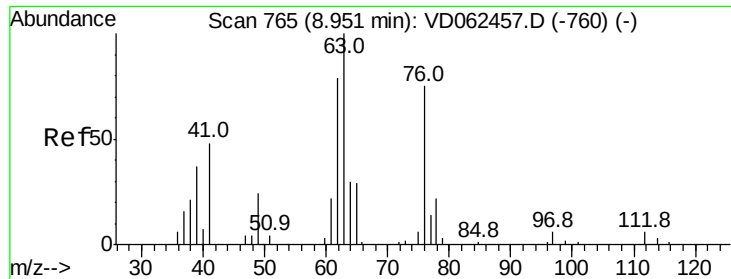
Delta R.T. -0.02 min

Lab File: VD062516.D

Acq: 23 May 2019 12:20

Tgt Ion:	130	Resp:	313012
Ion Ratio	Lower	Upper	
130	100		
95	89.8	0.0	174.0





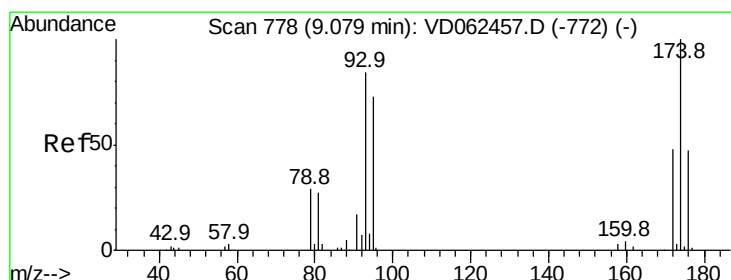
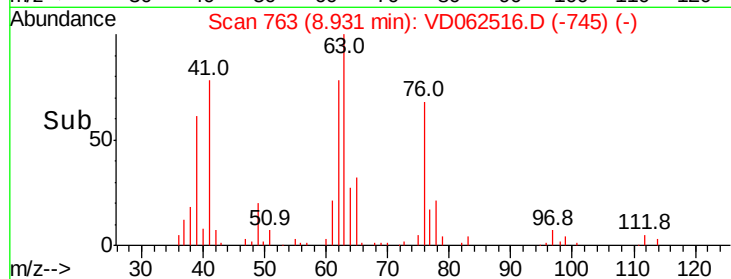
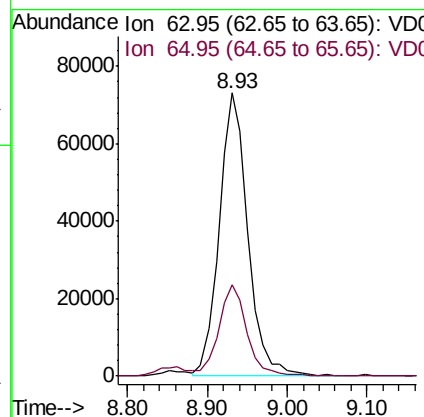
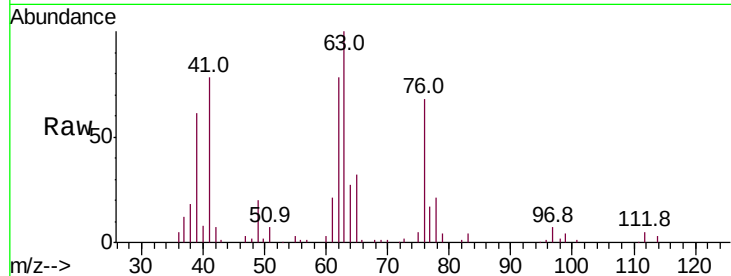
#45
 1,2-Dichloropropane
 Concen: 43.822 ug/l
 RT: 8.93 min Scan# 763
 Delta R.T. -0.02 min
 Lab File: VD062516.D
 Acq: 23 May 2019 12:20

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion: 63 Resp: 184491
 Ion Ratio Lower Upper
 63 100
 65 32.4 23.8 35.6

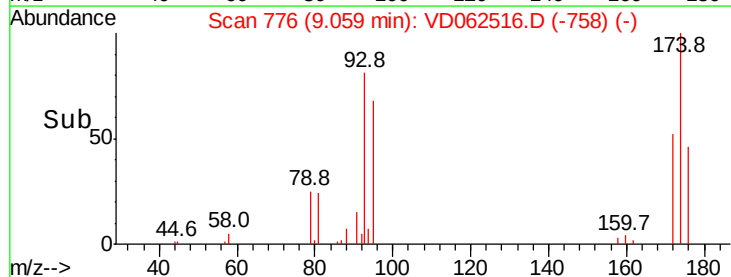
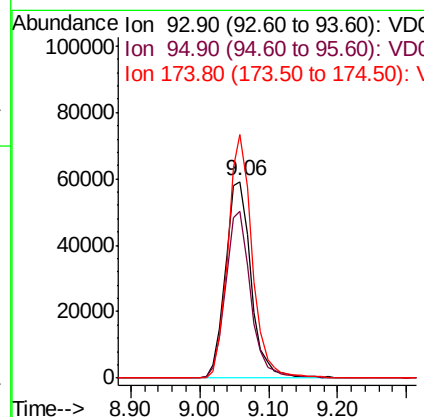
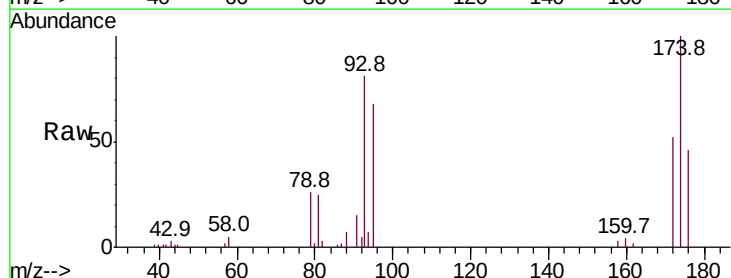
Manual Integrations
 APPROVED

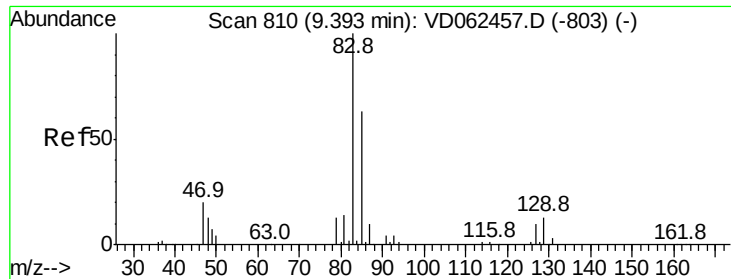
MMDadoda
 5/24/2019 10:45:02 PM



#46
 Dibromomethane
 Concen: 39.884 ug/l
 RT: 9.06 min Scan# 776
 Delta R.T. -0.02 min
 Lab File: VD062516.D
 Acq: 23 May 2019 12:20

Tgt Ion: 93 Resp: 152204
 Ion Ratio Lower Upper
 93 100
 95 84.7 64.8 97.2
 174 124.1 79.3 118.9#





#47

Bromodichloromethane

Concen: 40.339 ug/l

RT: 9.36 min Scan# 807

Delta R.T. -0.03 min

Lab File: VD062516.D

Acq: 23 May 2019 12:20

Instrument :

MSVOA_D

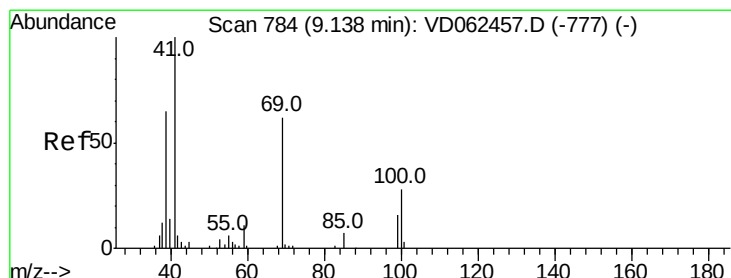
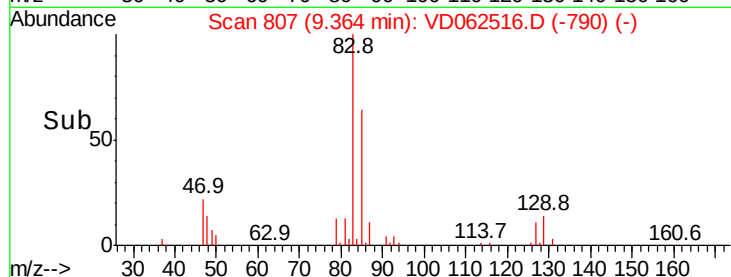
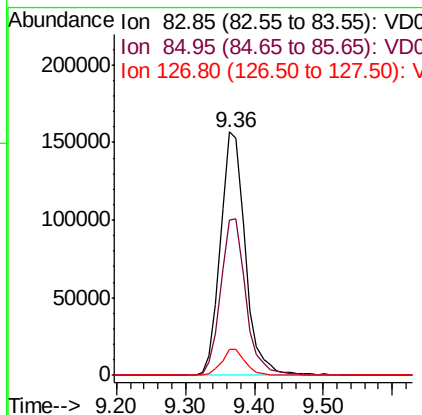
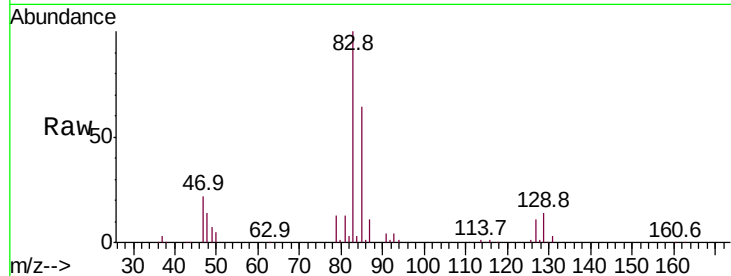
ClientSampleId :

VSTDCCC050

Tot Ion:	83	Resp:	391618
Ion	Ratio	Lower	Upper
83	100		
85	63.6	50.9	76.3
127	10.7	8.1	12.1

Manual Integrations
APPROVED

MMDadoda
5/24/2019 10:45:02 PM



#48

Methyl methacrylate

Concen: 41.067 ug/l

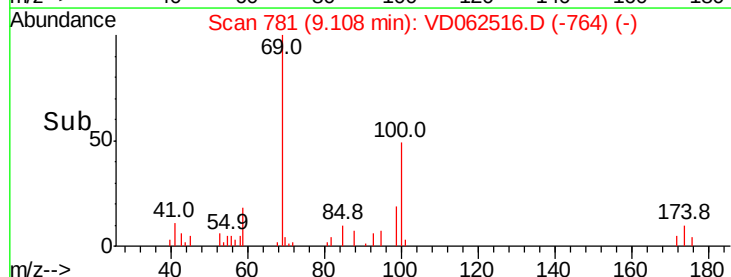
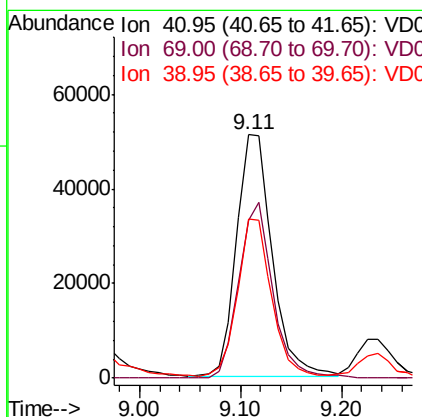
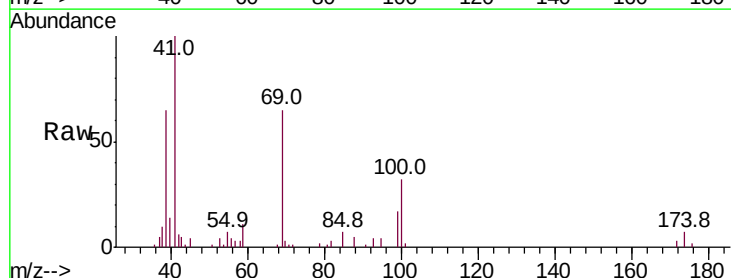
RT: 9.11 min Scan# 781

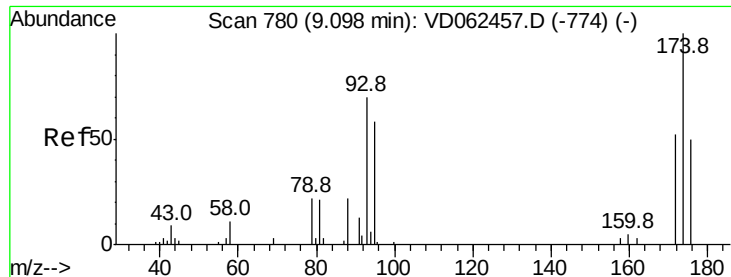
Delta R.T. -0.03 min

Lab File: VD062516.D

Acq: 23 May 2019 12:20

Tgt Ion:	41	Resp:	125439
Ion	Ratio	Lower	Upper
41	100		
69	64.8	64.2	96.2
39	65.4	46.8	70.2





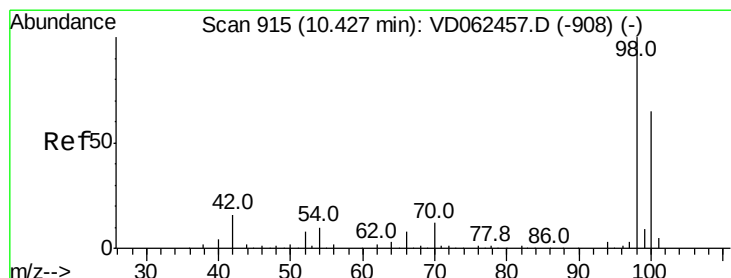
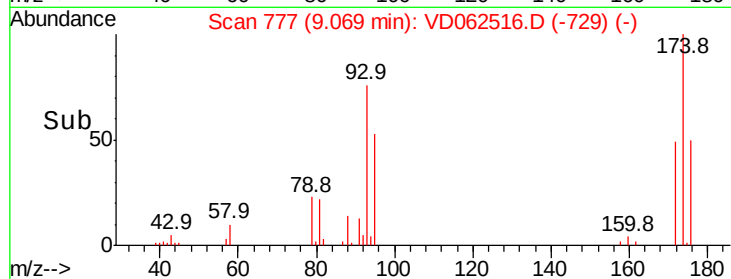
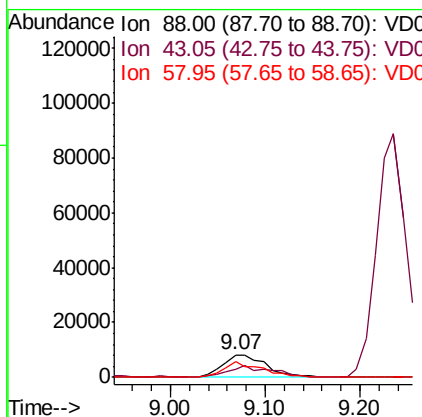
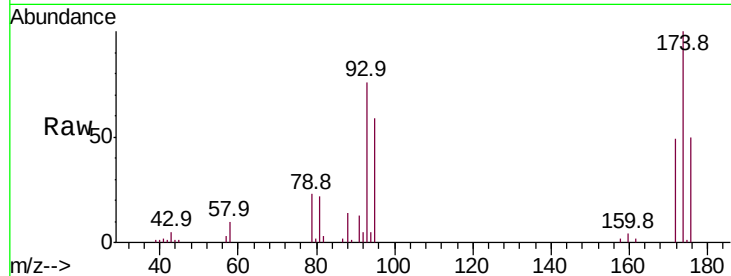
#49
 1,4-Dioxane
 Concen: 942.201 ug/l
 RT: 9.07 min Scan# 777
 Delta R.T. -0.03 min
 Lab File: VD062516.D
 Acq: 23 May 2019 12:20

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
88	100	25814		
43	34.4	23.4	35.0	
58	67.6	44.0	66.0	

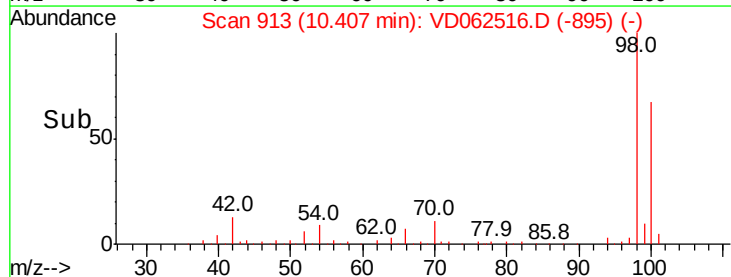
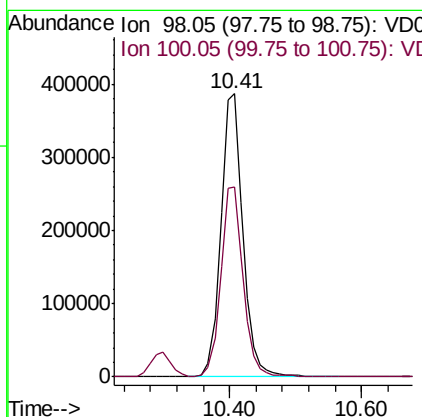
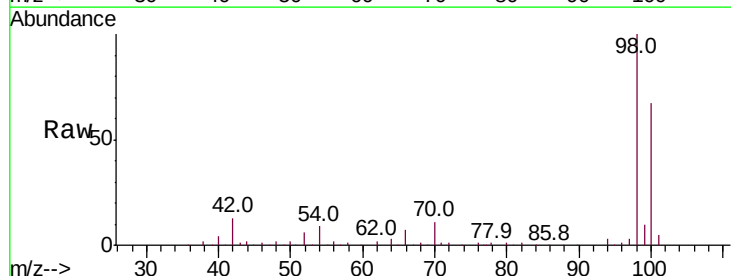
Manual Integrations
 APPROVED

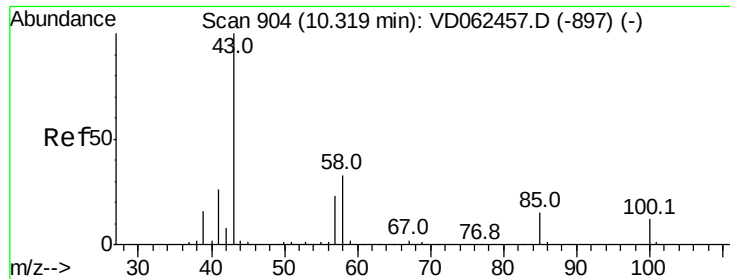
MMDadoda
 5/24/2019 10:45:02 PM



#50
 Toluene-d8
 Concen: 49.470 ug/l
 RT: 10.41 min Scan# 913
 Delta R.T. -0.02 min
 Lab File: VD062516.D
 Acq: 23 May 2019 12:20

Tgt Ion	Ratio	Resp	Lower	Upper
98	100	899664		
100	67.0	53.8	80.8	





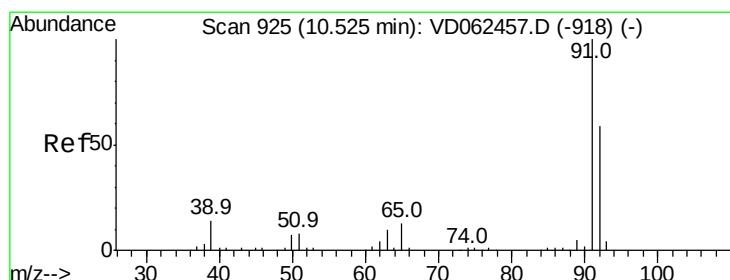
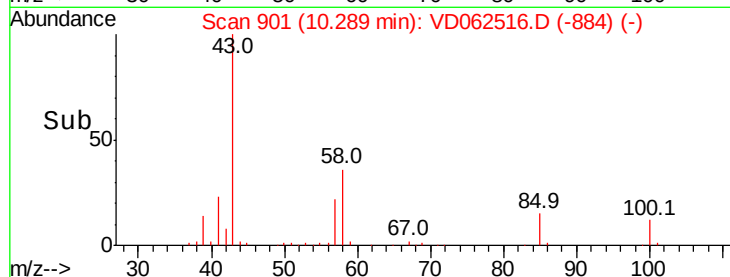
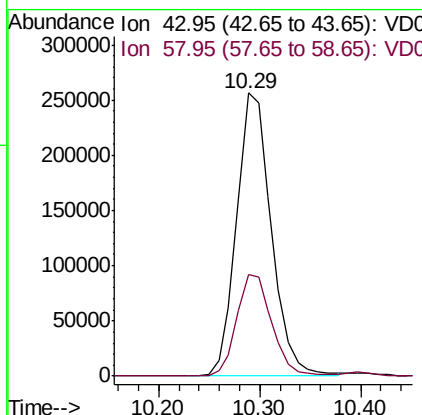
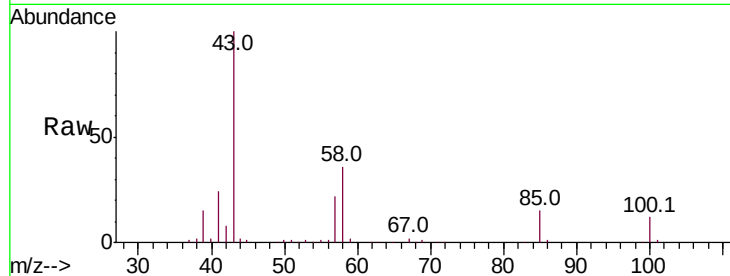
#51
4-Methyl-2-Pentanone
Concen: 204.801 ug/l
RT: 10.29 min Scan# 901
Delta R.T. -0.03 min
Lab File: VD062516.D
Acq: 23 May 2019 12:20

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
58	35.9	30.4	45.6

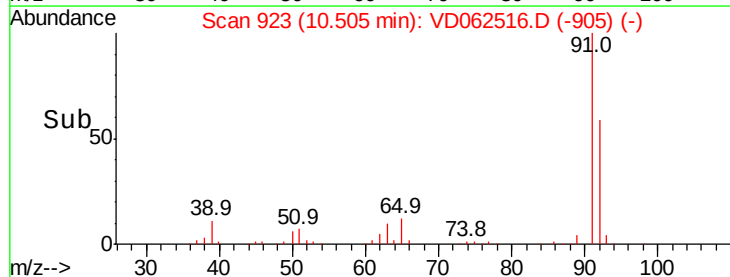
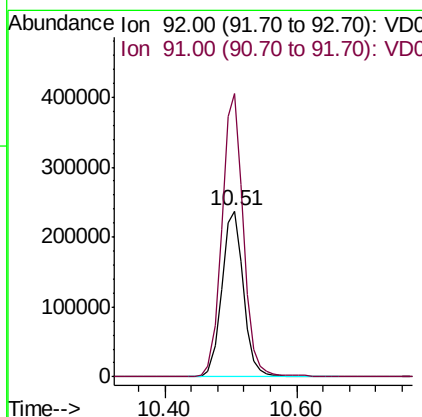
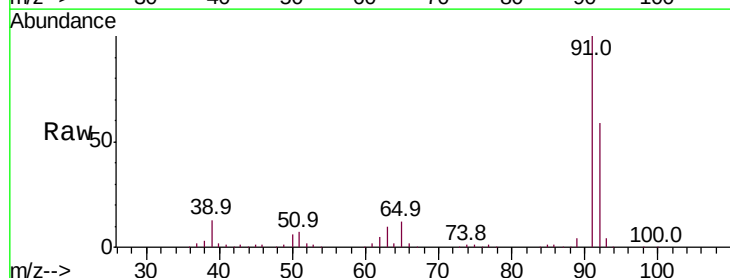
Manual Integrations
APPROVED

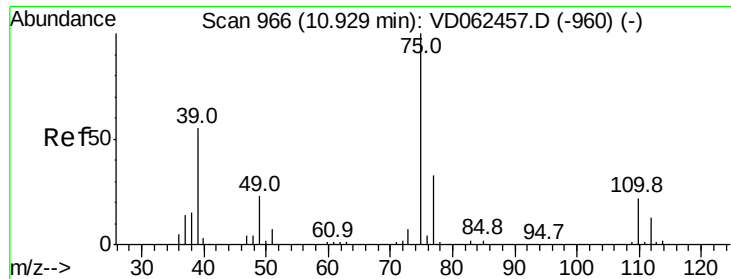
MMDadoda
5/24/2019 10:45:02 PM



#52
Toluene
Concen: 45.923 ug/l
RT: 10.51 min Scan# 923
Delta R.T. -0.02 min
Lab File: VD062516.D
Acq: 23 May 2019 12:20

Tgt Ion	Ratio	Lower	Upper
92	100		
91	170.6	136.6	204.8





#53

t-1,3-Dichloropropene

Concen: 41.629 ug/l

RT: 10.91 min Scan# 964

Delta R.T. -0.02 min

Lab File: VD062516.D

Acq: 23 May 2019 12:20

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 75 Resp: 336465

Ion Ratio Lower Upper

75 100

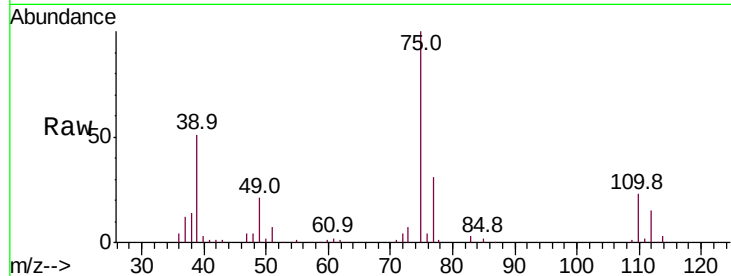
77 30.7 25.8 38.8

Manual Integrations

APPROVED

MMDadoda

5/24/2019 10:45:02 PM



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC

10.91

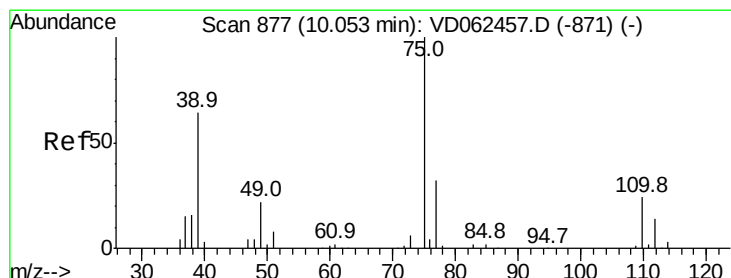
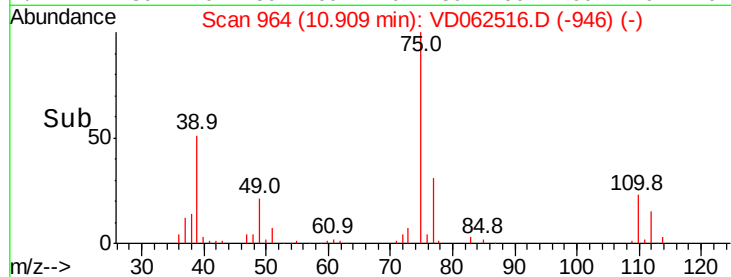
150000

100000

50000

0

Time-->



#54

cis-1,3-Dichloropropene

Concen: 44.859 ug/l

RT: 10.03 min Scan# 875

Delta R.T. -0.02 min

Lab File: VD062516.D

Acq: 23 May 2019 12:20

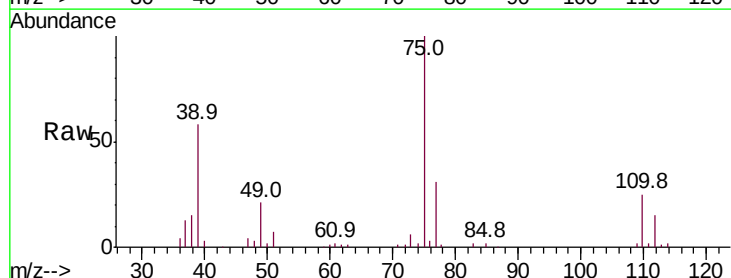
Tgt Ion: 75 Resp: 378322

Ion Ratio Lower Upper

75 100

77 31.1 25.5 38.3

39 57.5 39.4 59.2



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC

Ion 38.95 (38.65 to 39.65): VDC

250000

200000

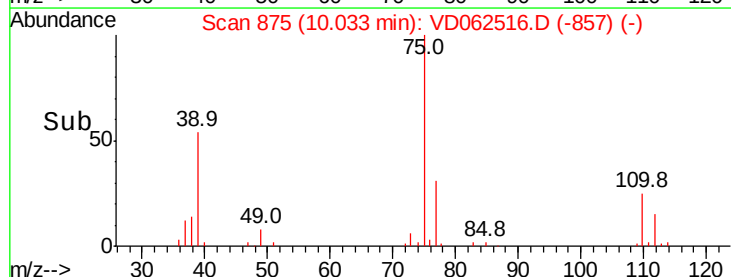
150000

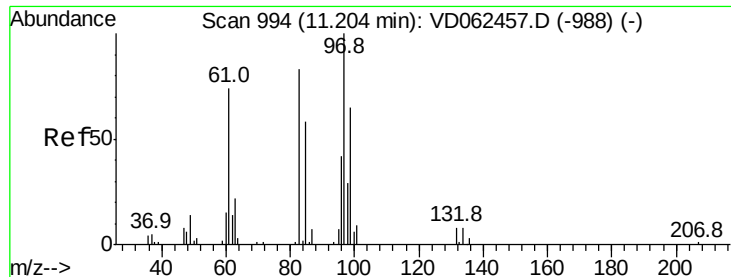
100000

50000

0

Time-->





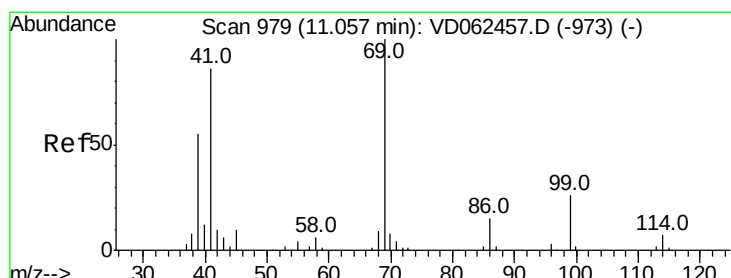
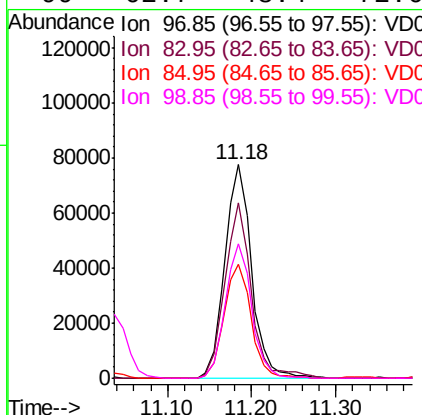
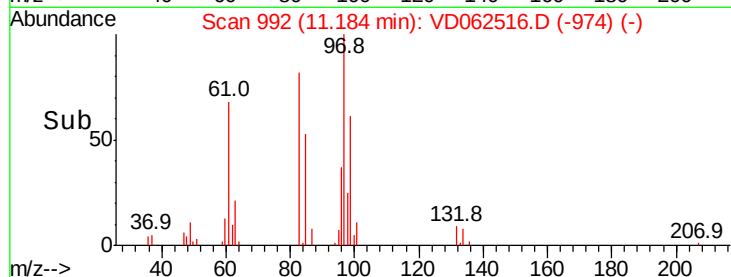
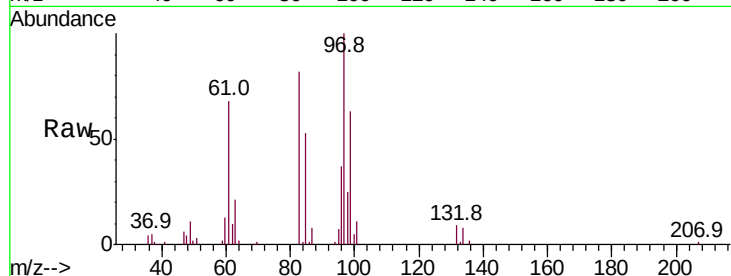
#55
 1,1,2-Trichloroethane
 Concen: 42.727 ug/l
 RT: 11.18 min Scan# 992
 Delta R.T. -0.02 min
 Lab File: VD062516.D
 Acq: 23 May 2019 12:20

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
97	100		
83	81.9	65.7	98.5
85	53.3	45.6	68.4
99	62.7	48.4	72.6

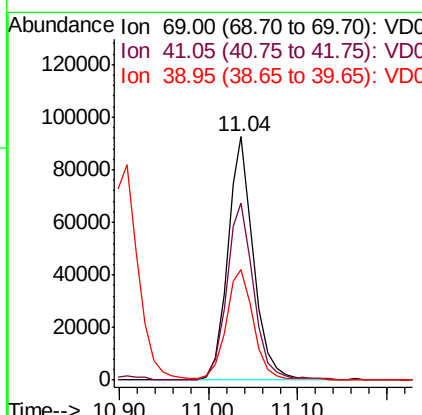
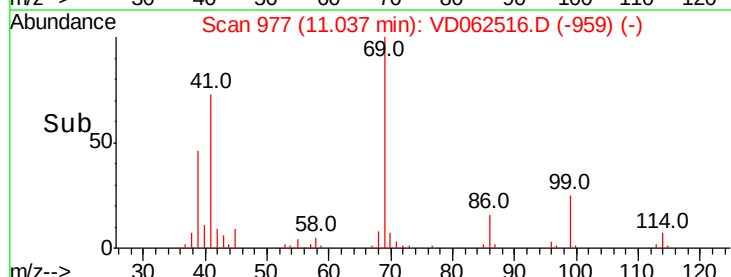
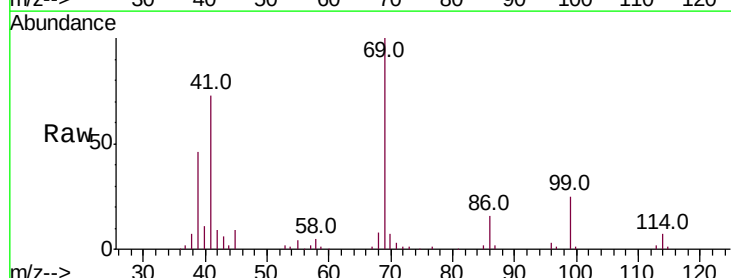
Manual Integrations
 APPROVED

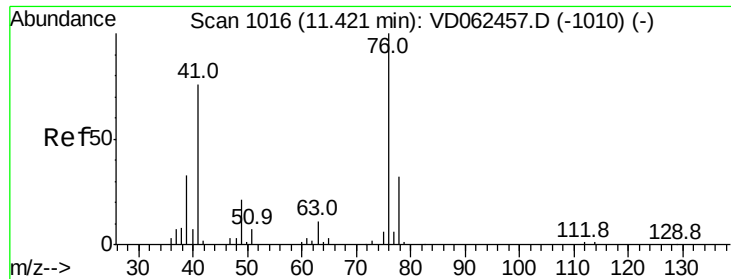
MMDadoda
 5/24/2019 10:45:02 PM



#56
 Ethyl methacrylate
 Concen: 43.529 ug/l
 RT: 11.04 min Scan# 977
 Delta R.T. -0.02 min
 Lab File: VD062516.D
 Acq: 23 May 2019 12:20

Tgt Ion	Ratio	Lower	Upper
69	100		
41	72.9	56.3	84.5
39	45.5	29.4	44.2#





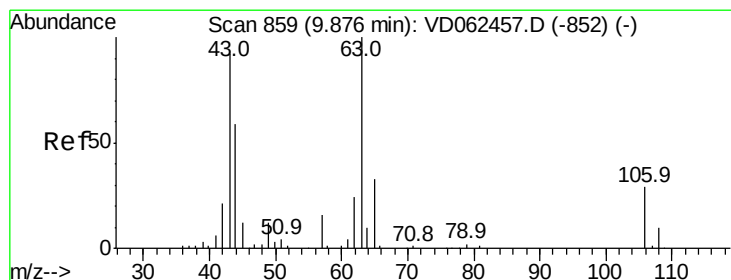
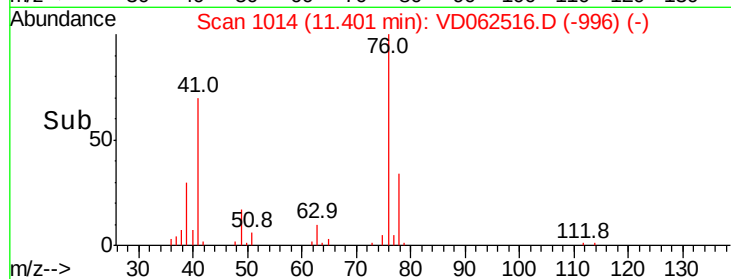
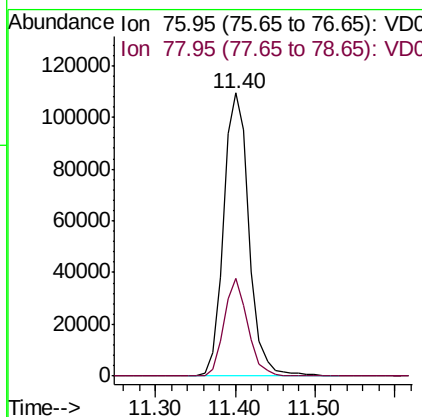
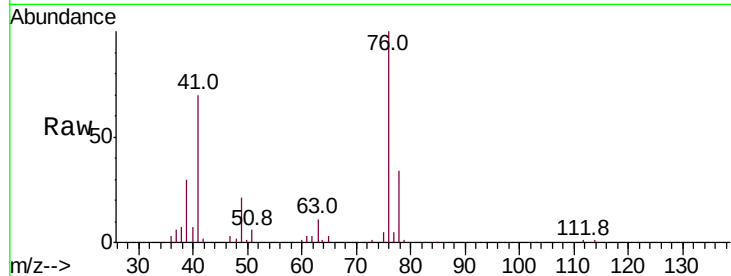
#57
 1,3-Dichloropropane
 Concen: 39.686 ug/l
 RT: 11.40 min Scan# 1014
 Delta R.T. -0.02 min
 Lab File: VD062516.D
 Acq: 23 May 2019 12:20

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion: 76 Resp: 243954
 Ion Ratio Lower Upper
 76 100
 78 34.5 26.2 39.2

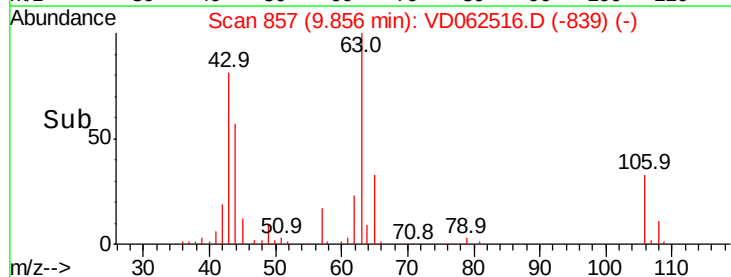
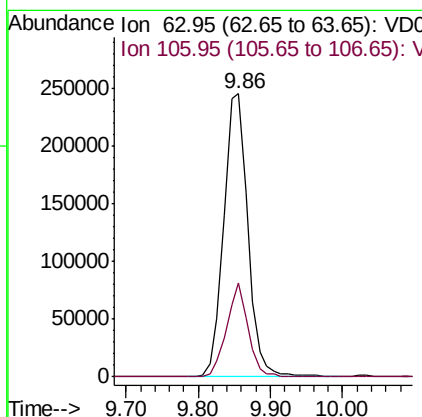
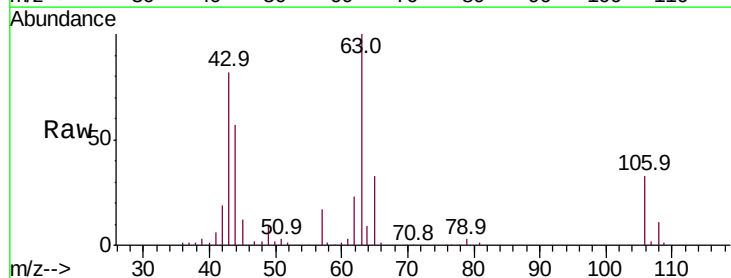
Manual Integrations
 APPROVED

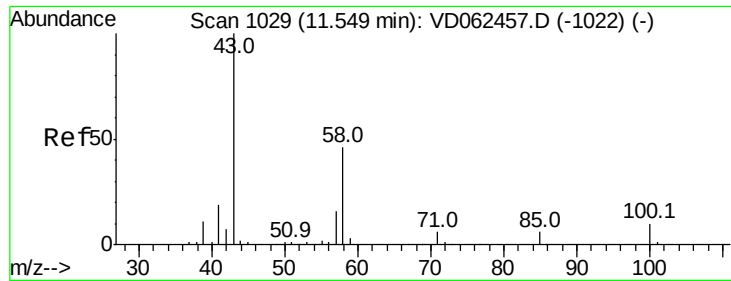
MMDadoda
 5/24/2019 10:45:02 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 258.924 ug/l
 RT: 9.86 min Scan# 857
 Delta R.T. -0.02 min
 Lab File: VD062516.D
 Acq: 23 May 2019 12:20

Tgt Ion: 63 Resp: 569701
 Ion Ratio Lower Upper
 63 100
 106 33.1 22.6 34.0





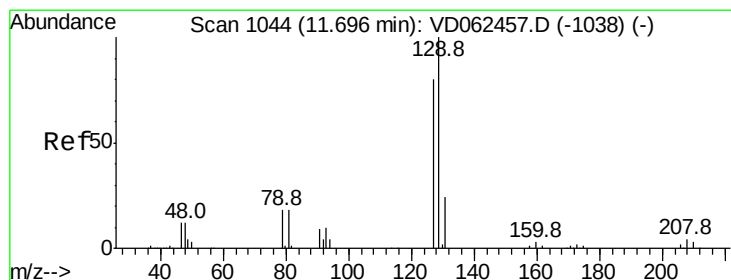
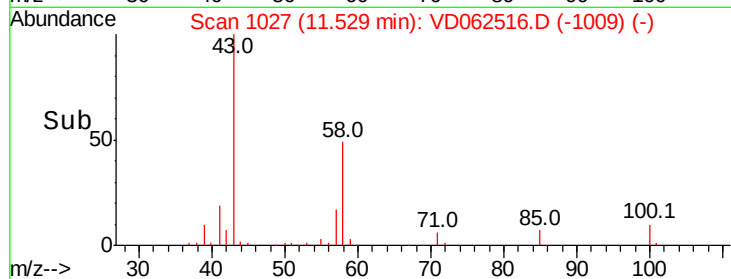
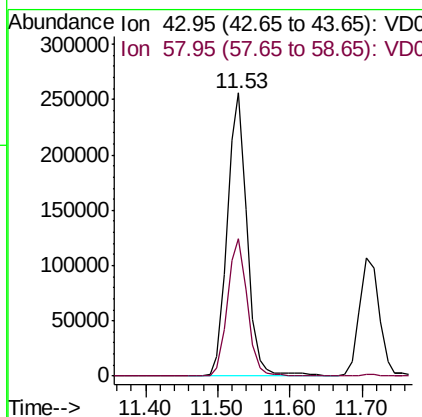
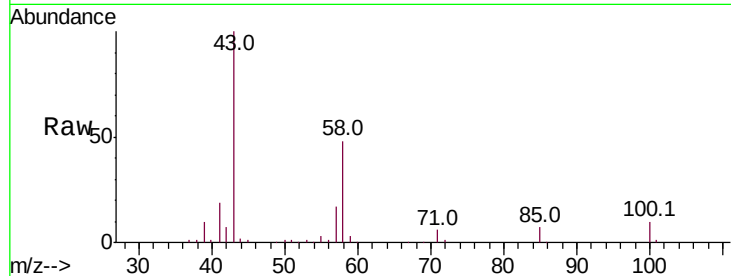
#59
2-Hexanone
Concen: 223.037 ug/l
RT: 11.53 min Scan# 1027
Delta R.T. -0.02 min
Lab File: VD062516.D
Acq: 23 May 2019 12:20

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 43 Resp: 486055
Ion Ratio Lower Upper
43 100
58 48.5 25.4 76.4

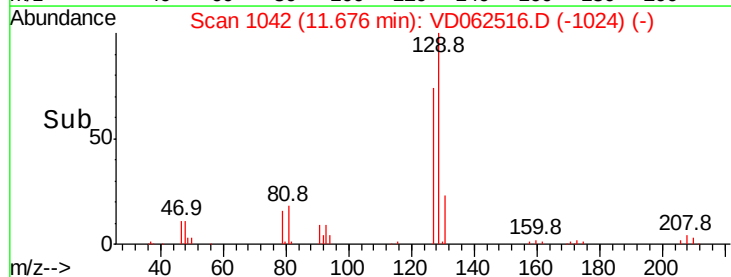
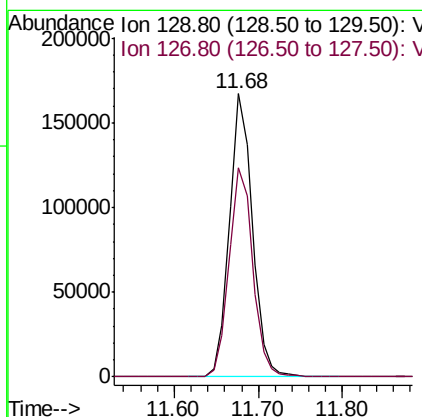
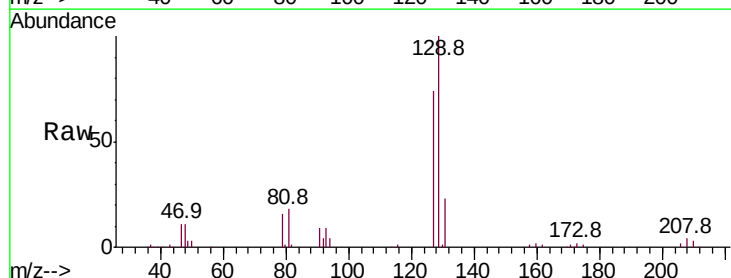
Manual Integrations
APPROVED

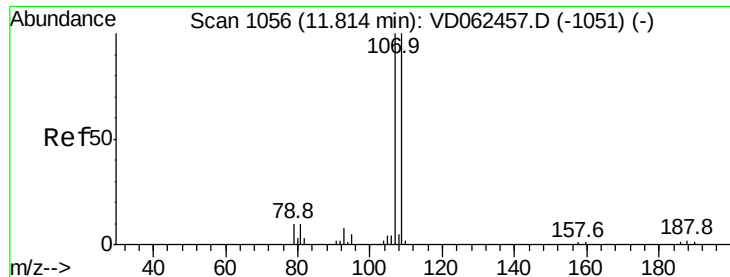
MMDadoda
5/24/2019 10:45:02 PM



#60
Dibromochloromethane
Concen: 41.371 ug/l
RT: 11.68 min Scan# 1042
Delta R.T. -0.02 min
Lab File: VD062516.D
Acq: 23 May 2019 12:20

Tgt Ion: 129 Resp: 318502
Ion Ratio Lower Upper
129 100
127 74.0 38.0 113.9





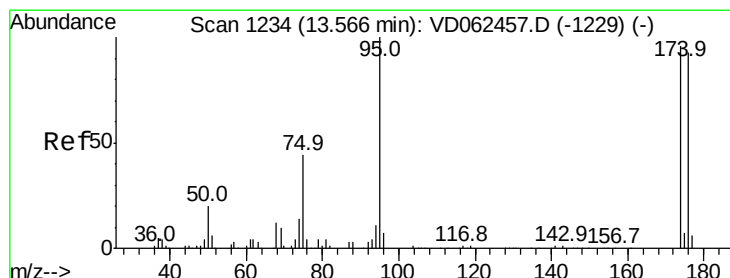
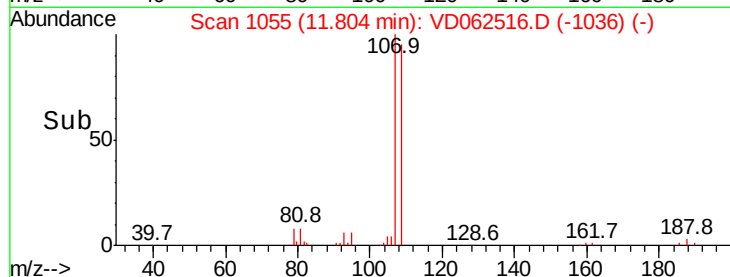
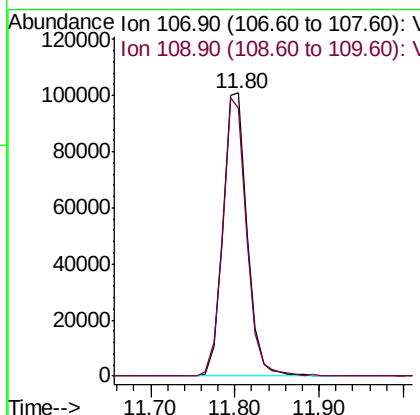
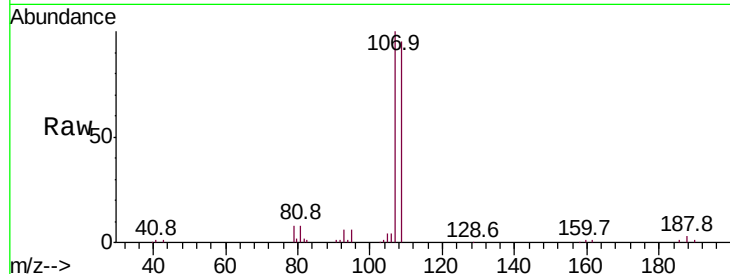
#61
 1,2-Dibromoethane
 Concen: 40.395 ug/l
 RT: 11.80 min Scan# 1055
 Delta R.T. -0.01 min
 Lab File: VD062516.D
 Acq: 23 May 2019 12:20

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
107	100	199538		
109	94.6	78.3	117.5	

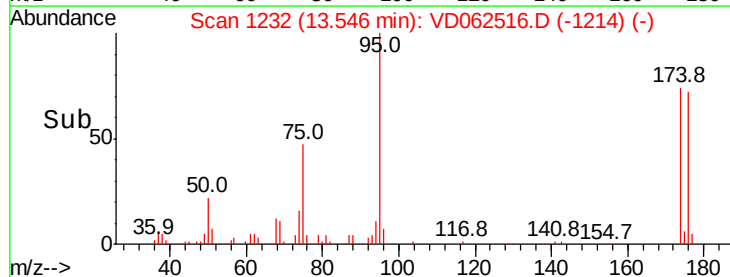
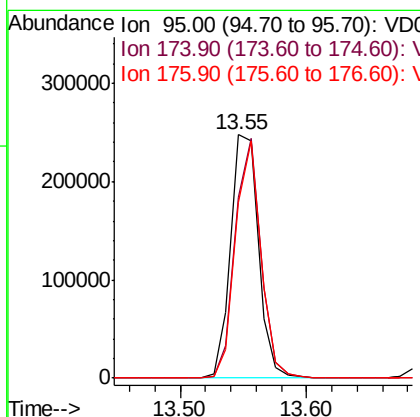
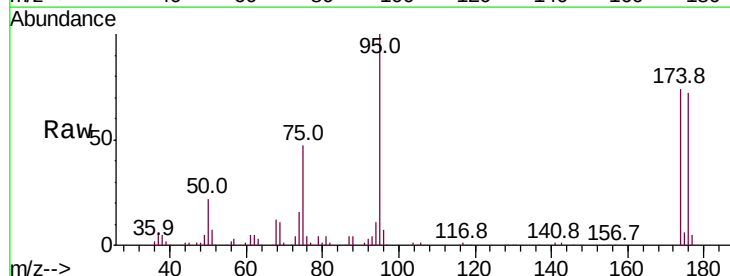
Manual Integrations
 APPROVED

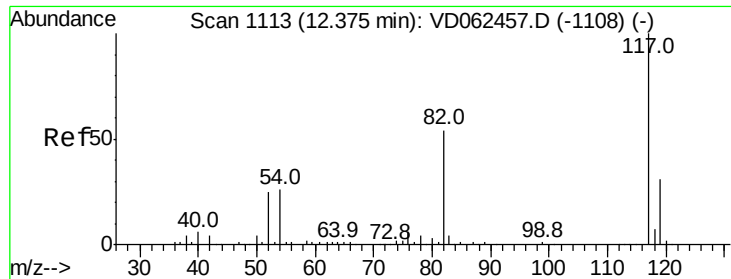
MMDadoda
 5/24/2019 10:45:02 PM



#62
 4-Bromofluorobenzene
 Concen: 47.197 ug/l
 RT: 13.55 min Scan# 1232
 Delta R.T. -0.02 min
 Lab File: VD062516.D
 Acq: 23 May 2019 12:20

Tgt Ion	Ratio	Resp	Lower	Upper
95	100	375468		
174	74.4	0.0	181.8	
176	72.0	0.0	174.4	





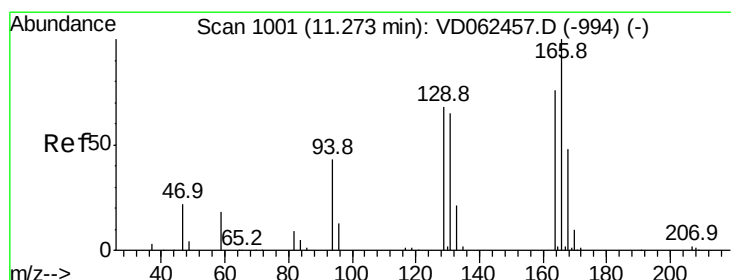
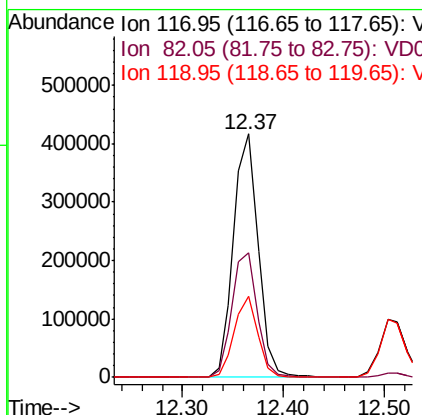
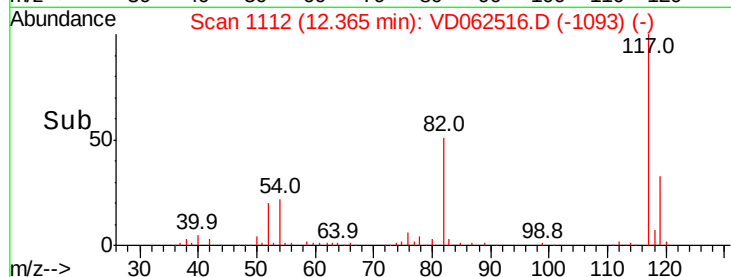
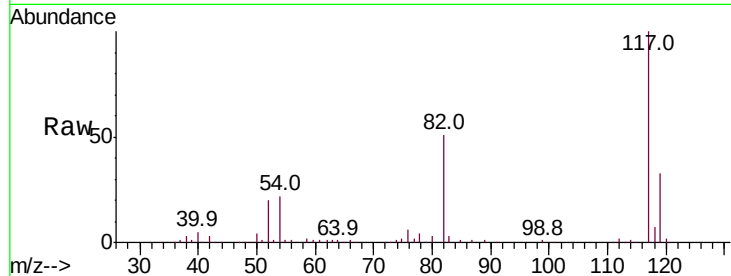
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1112
Delta R.T. -0.01 min
Lab File: VD062516.D
Acq: 23 May 2019 12:20

Instrument :
MSVOA_D
ClientSampled :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
117	100		
82	51.0	36.2	54.2
119	33.4	26.2	39.4

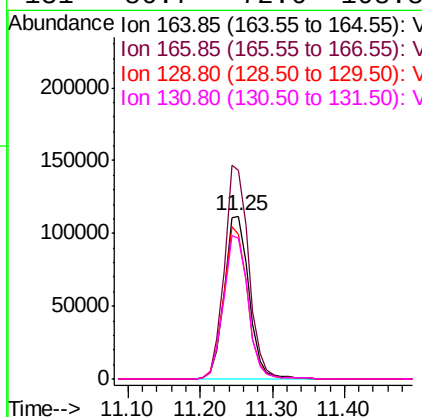
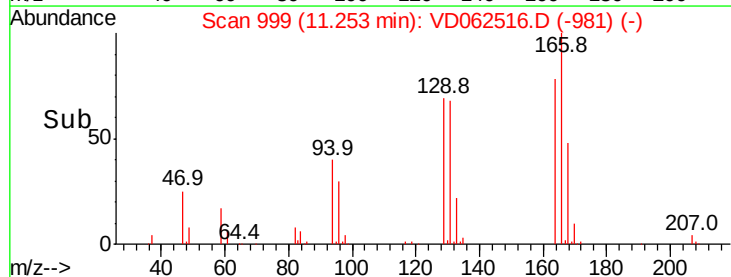
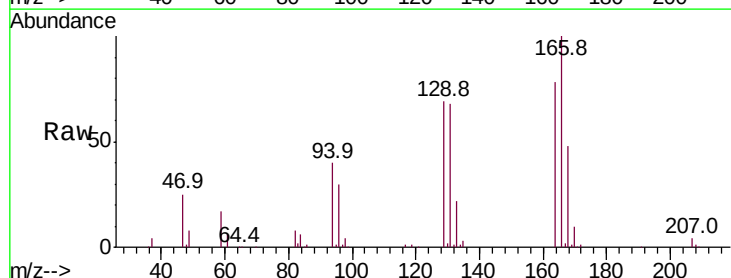
Manual Integrations
APPROVED

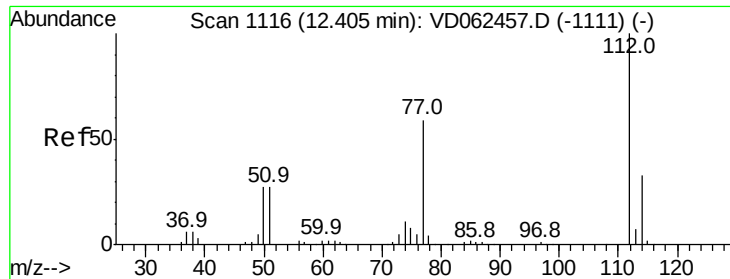
MMDadoda
5/24/2019 10:45:02 PM



#64
Tetrachloroethene
Concen: 44.442 ug/l
RT: 11.25 min Scan# 999
Delta R.T. -0.02 min
Lab File: VD062516.D
Acq: 23 May 2019 12:20

Tgt Ion	Ratio	Lower	Upper
164	100		
166	127.6	101.5	152.3
129	88.4	74.6	112.0
131	86.7	72.6	108.8





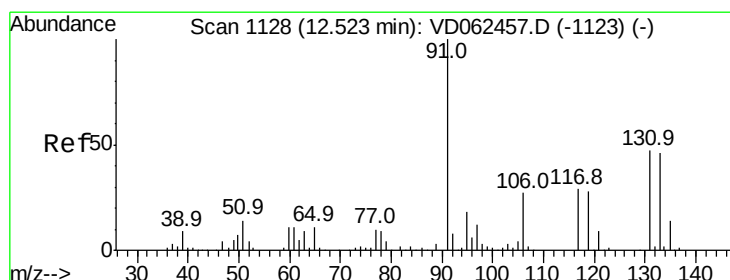
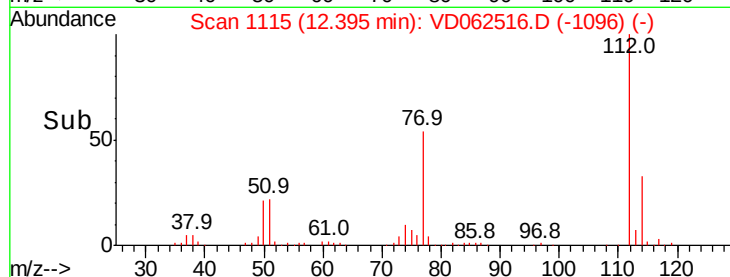
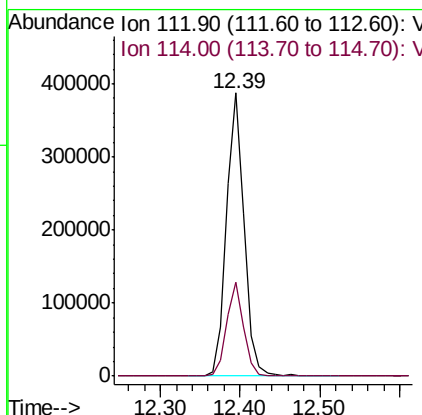
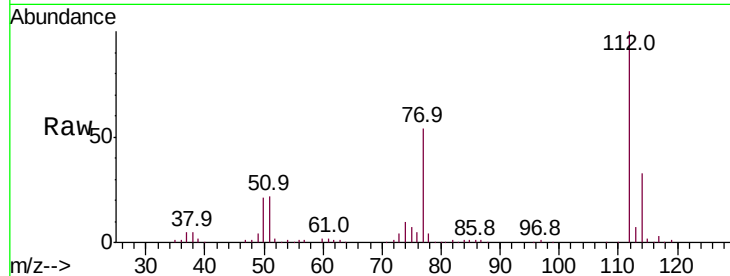
#65
Chlorobenzene
Concen: 44.294 ug/l
RT: 12.39 min Scan# 1115
Delta R.T. -0.01 min
Lab File: VD062516.D
Acq: 23 May 2019 12:20

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion:112 Resp: 606966
Ion Ratio Lower Upper
112 100
114 33.3 25.8 38.8

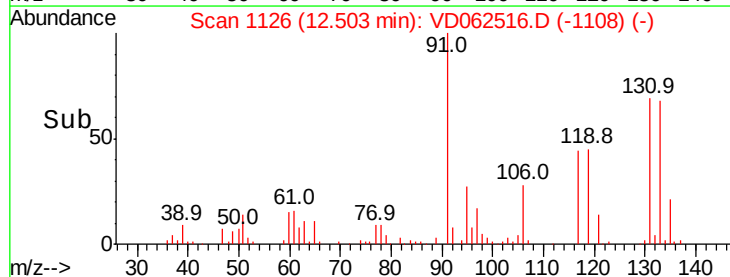
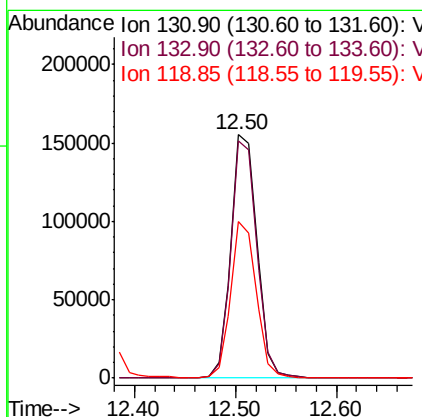
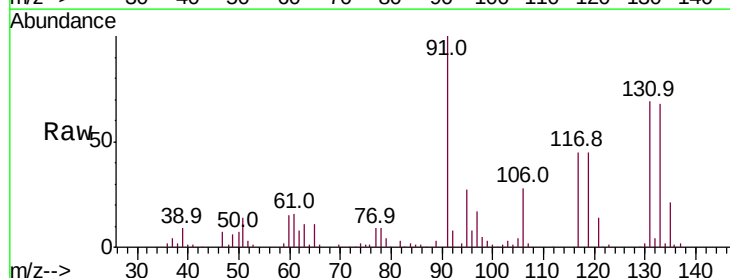
Manual Integrations
APPROVED

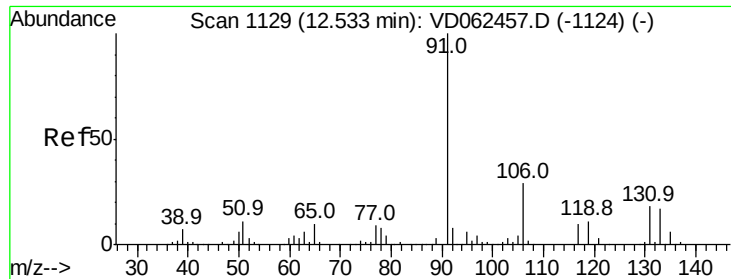
MMDadoda
5/24/2019 10:45:02 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 44.055 ug/l
RT: 12.50 min Scan# 1126
Delta R.T. -0.02 min
Lab File: VD062516.D
Acq: 23 May 2019 12:20

Tgt Ion:131 Resp: 278661
Ion Ratio Lower Upper
131 100
133 97.5 48.6 145.8
119 64.4 34.7 104.1





#67

Ethyl Benzene

Concen: 46.681 ug/l

RT: 12.52 min Scan# 1128

Delta R.T. -0.01 min

Lab File: VD062516.D

Acq: 23 May 2019 12:20

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 91 Resp: 1101788

Ion Ratio Lower Upper

91 100

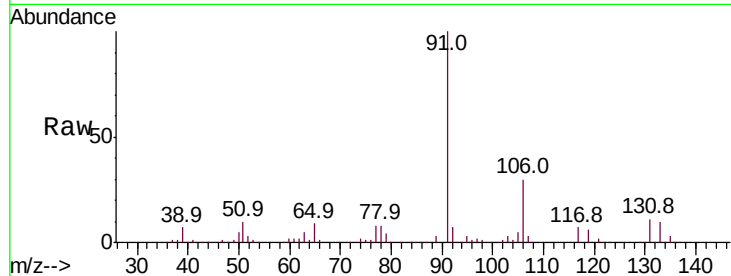
106 29.8 24.7 37.1

Manual Integrations

APPROVED

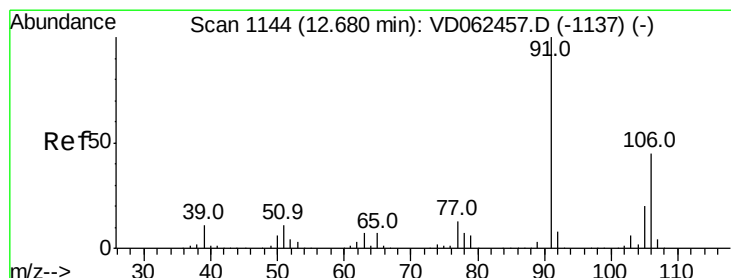
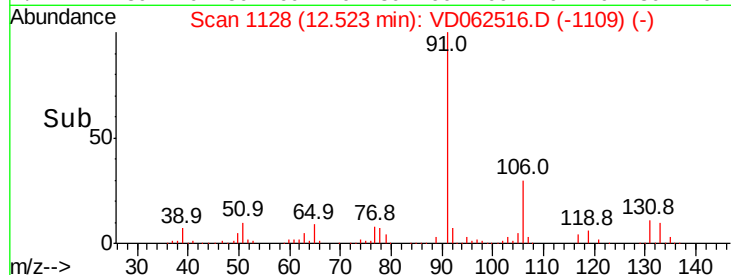
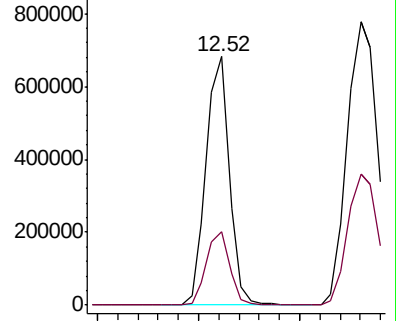
MMDadoda

5/24/2019 10:45:02 PM



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 106.05 (105.75 to 106.75): V



#68

m/p-Xylenes

Concen: 89.625 ug/l

RT: 12.66 min Scan# 1142

Delta R.T. -0.02 min

Lab File: VD062516.D

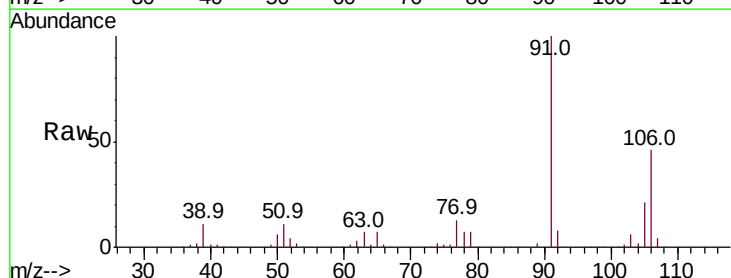
Acq: 23 May 2019 12:20

Tgt Ion:106 Resp: 759339

Ion Ratio Lower Upper

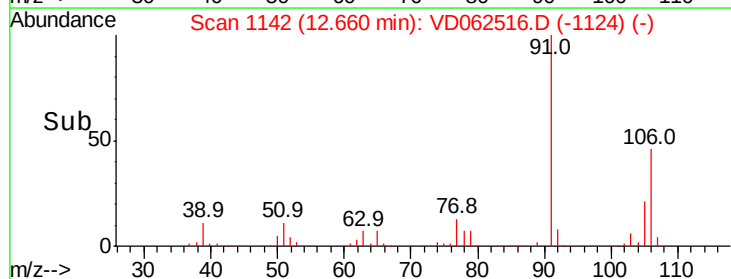
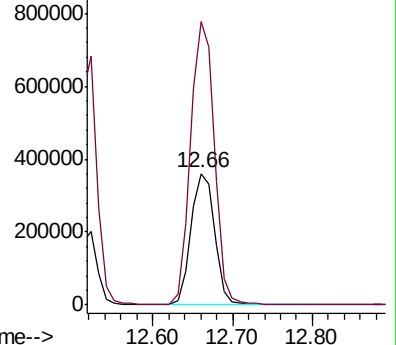
106 100

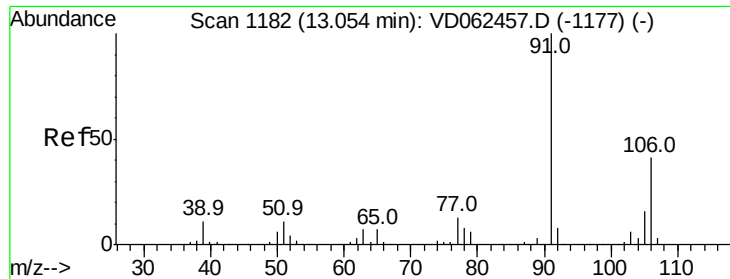
91 216.0 164.0 246.0



Abundance Ion 106.05 (105.75 to 106.75): V

Ion 91.00 (90.70 to 91.70): VDC





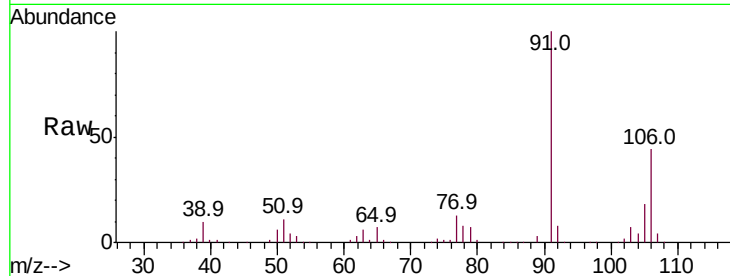
#69
o-Xylene
Concen: 44.422 ug/l
RT: 13.04 min Scan# 1181
Delta R.T. -0.01 min
Lab File: VD062516.D
Acq: 23 May 2019 12:20

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

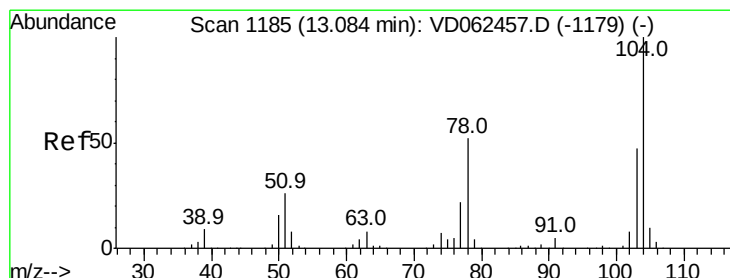
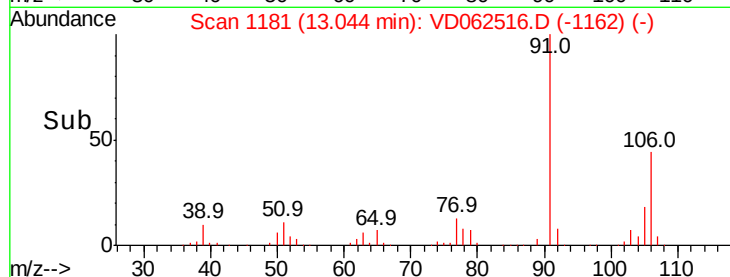
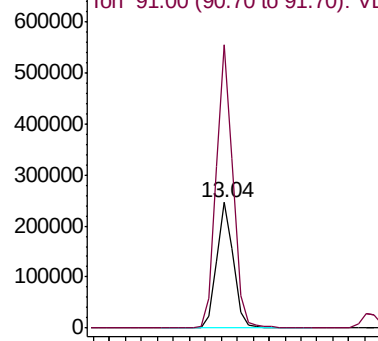
Tot Ion:106 Resp: 355105
Ion Ratio Lower Upper
106 100
91 225.2 106.7 319.9

Manual Integrations
APPROVED

MMDadoda
5/24/2019 10:45:02 PM

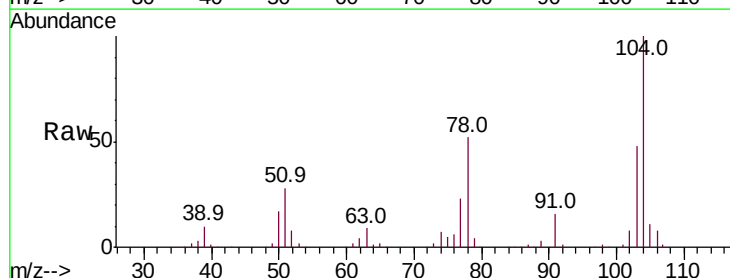


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): V

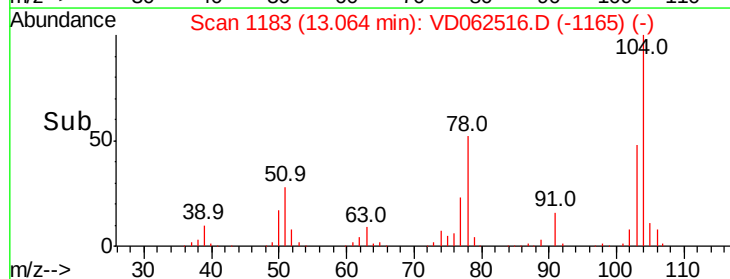
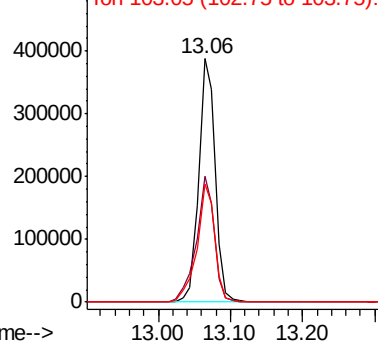


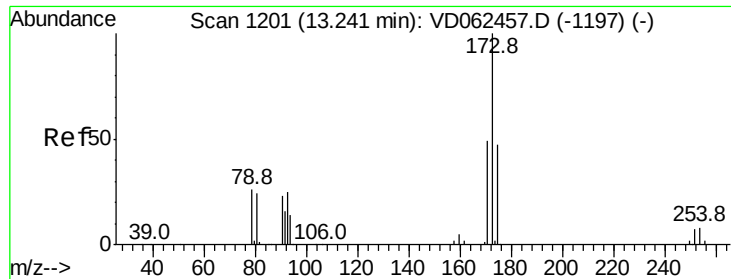
#70
Styrene
Concen: 44.708 ug/l
RT: 13.06 min Scan# 1183
Delta R.T. -0.02 min
Lab File: VD062516.D
Acq: 23 May 2019 12:20

Tgt Ion:104 Resp: 607990
Ion Ratio Lower Upper
104 100
78 51.7 35.4 53.2
103 48.4 37.5 56.3



Abundance Ion 104.05 (103.75 to 104.75): V
Ion 77.95 (77.65 to 78.65): V
Ion 103.05 (102.75 to 103.75): V





#71

Bromoform

Concen: 45.257 ug/l

RT: 13.23 min Scan# 1200

Delta R.T. -0.01 min

Lab File: VD062516.D

Acq: 23 May 2019 12:20

Instrument :

MSVOA_D

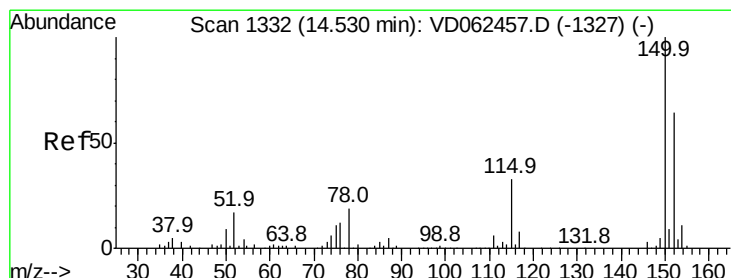
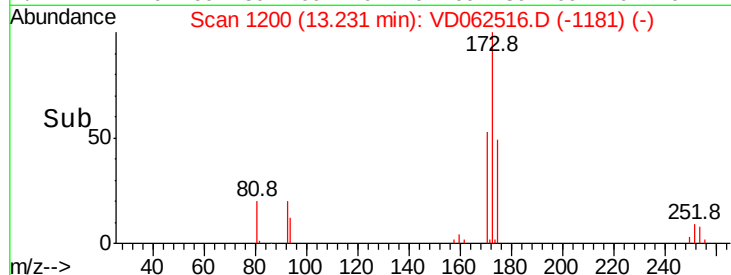
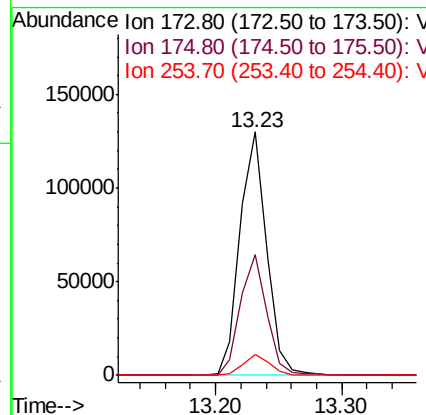
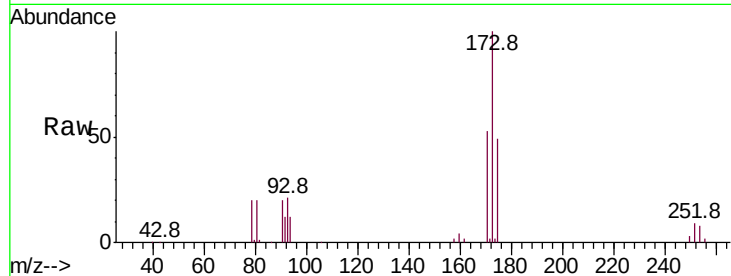
ClientSampleId :

VSTDCCC050

Tot Ion:	173	Resp:	190113
Ion Ratio	Lower	Upper	
173	100		
175	49.5	24.4	73.4
254	8.4	5.4	8.2#

Manual Integrations
APPROVED

MMDadoda
5/24/2019 10:45:02 PM



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

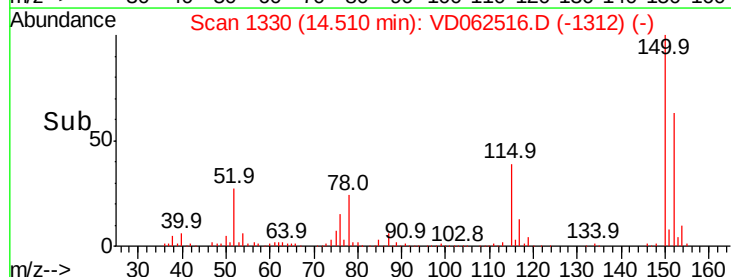
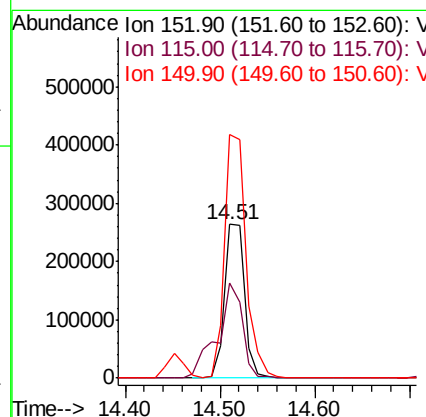
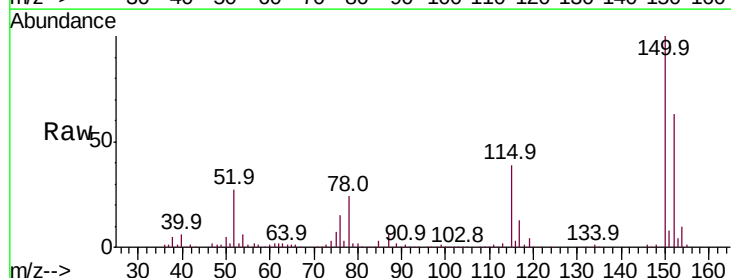
RT: 14.51 min Scan# 1330

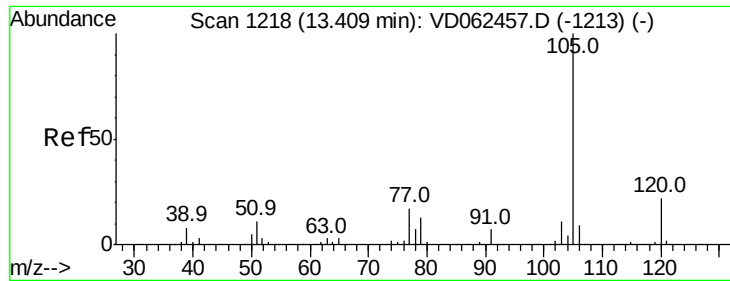
Delta R.T. -0.02 min

Lab File: VD062516.D

Acq: 23 May 2019 12:20

Tgt Ion:	152	Resp:	382540
Ion Ratio	Lower	Upper	
152	100		
115	62.2	30.9	92.7
150	158.1	0.0	314.8





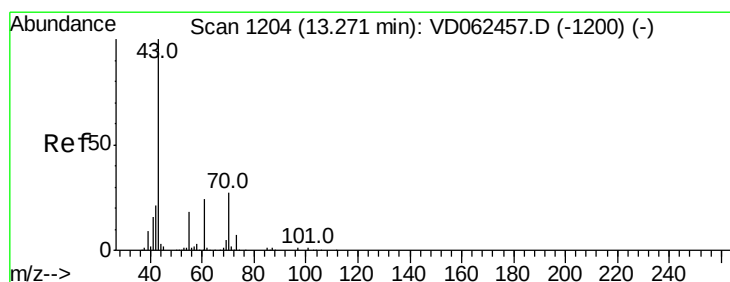
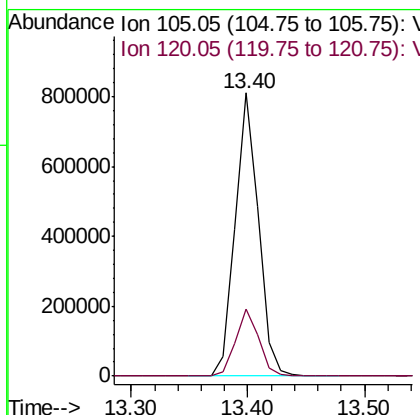
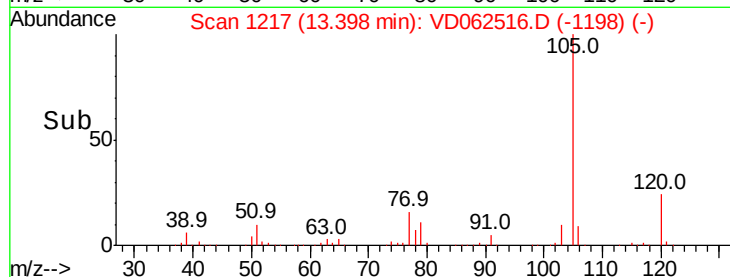
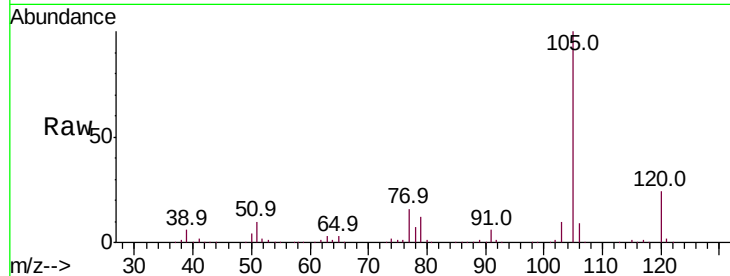
#73
Isopropylbenzene
Concen: 46.465 ug/l
RT: 13.40 min Scan# 1217
Delta R.T. -0.01 min
Lab File: VD062516.D
Acq: 23 May 2019 12:20

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion:105 Resp: 1120397
Ion Ratio Lower Upper
105 100
120 23.5 12.0 36.1

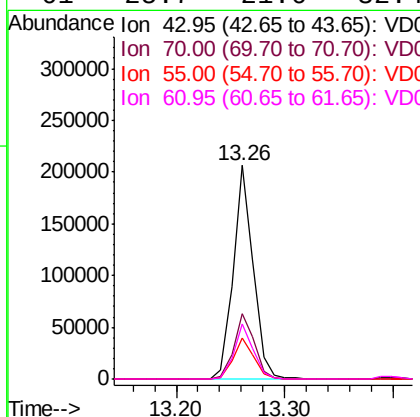
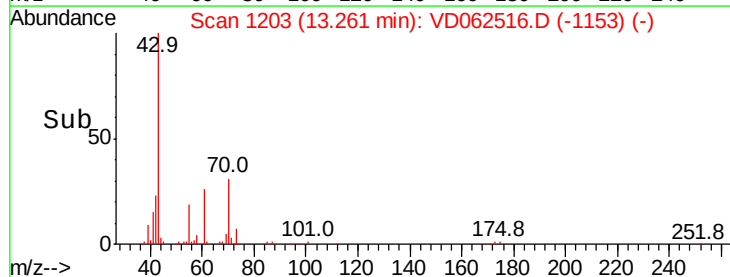
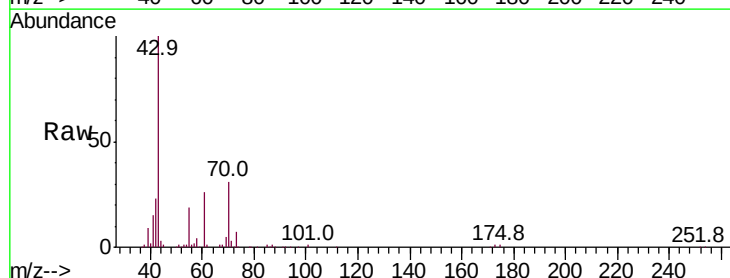
Manual Integrations
APPROVED

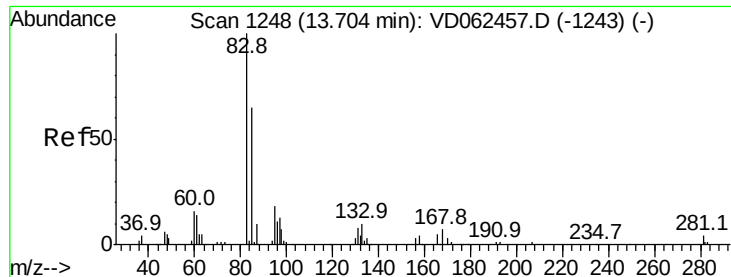
MMDadoda
5/24/2019 10:45:02 PM



#74
N-ethyl acetate
Concen: 44.333 ug/l
RT: 13.26 min Scan# 1203
Delta R.T. -0.01 min
Lab File: VD062516.D
Acq: 23 May 2019 12:20

Tgt Ion: 43 Resp: 264024
Ion Ratio Lower Upper
43 100
70 30.8 24.2 36.4
55 19.1 16.0 24.0
61 25.7 21.6 32.4





#75

1,1,2,2-Tetrachloroethane

Concen: 42.256 ug/l

RT: 13.69 min Scan# 1247

Delta R.T. -0.01 min

Lab File: VD062516.D

Acq: 23 May 2019 12:20

Instrument :

MSVOA_D

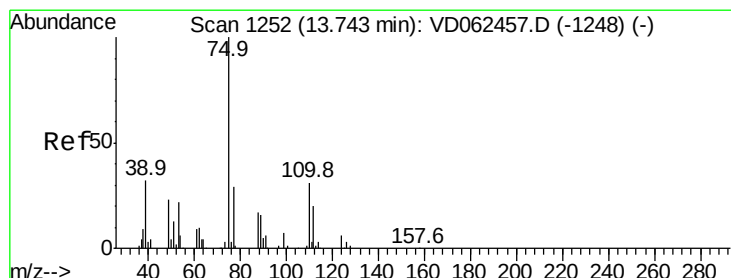
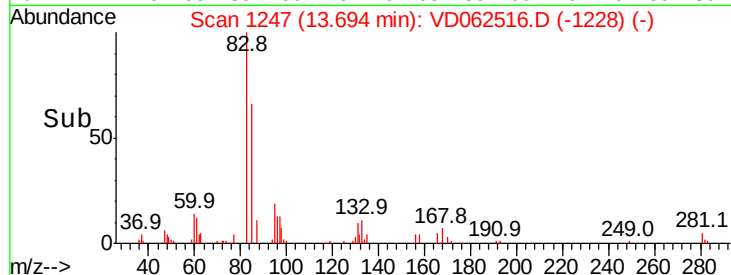
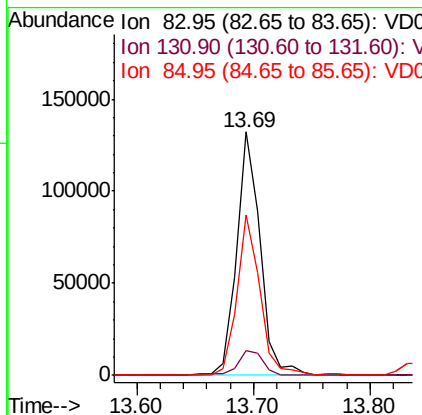
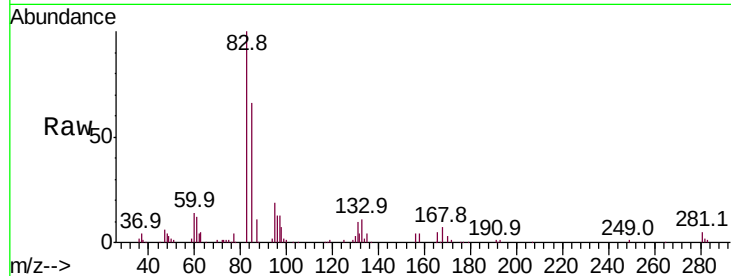
ClientSampleId :

VSTDCCC050

Tot Ion:	83	Resp:	183820
Ion Ratio	Lower	Upper	
83	100		
131	10.2	5.0	14.9
85	66.1	32.6	97.7

Manual Integrations
APPROVED

MMDadoda
5/24/2019 10:45:02 PM



#76

1,2,3-Trichloropropane

Concen: 42.768 ug/l

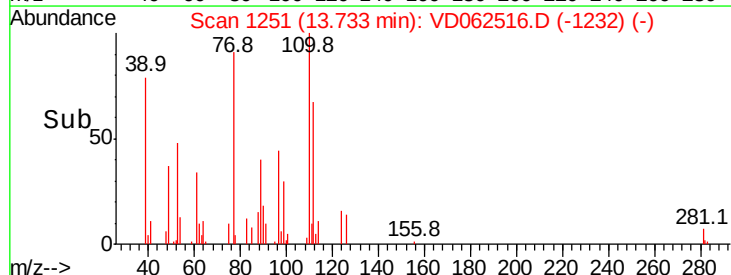
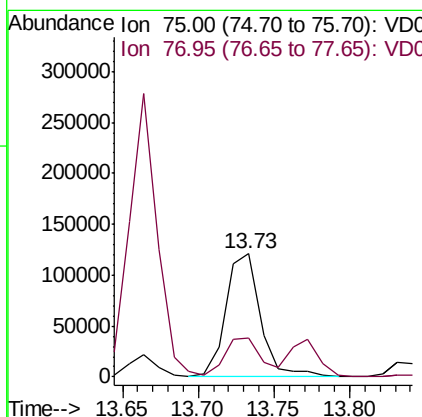
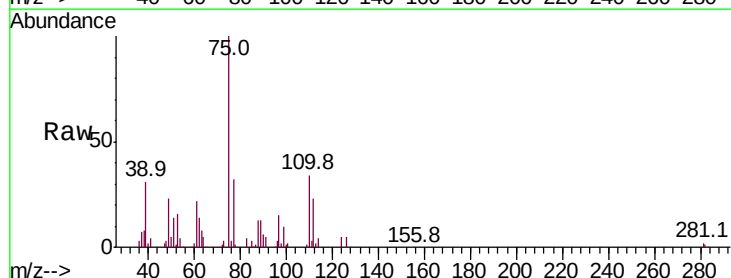
RT: 13.73 min Scan# 1251

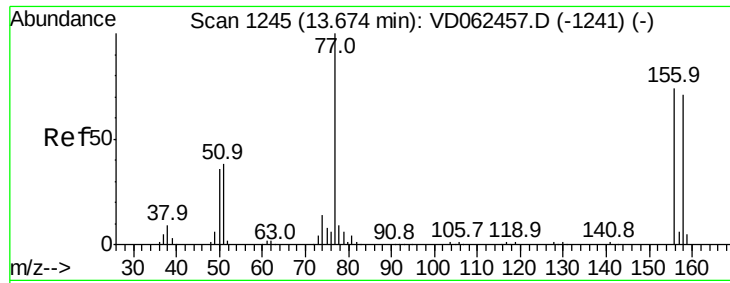
Delta R.T. -0.01 min

Lab File: VD062516.D

Acq: 23 May 2019 12:20

Tgt Ion:	75	Resp:	192705
Ion Ratio	Lower	Upper	
75	100		
77	32.0	16.4	49.4





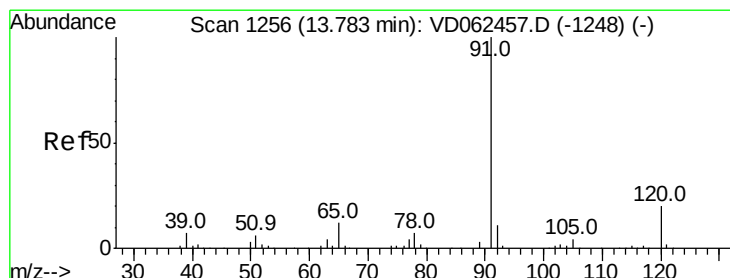
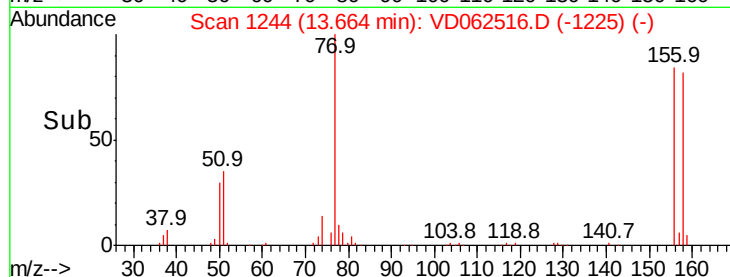
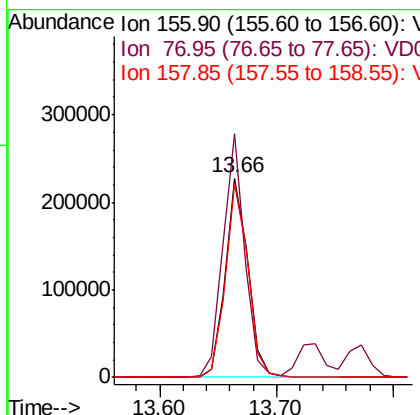
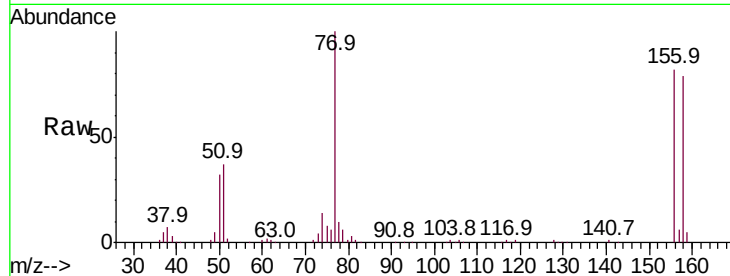
#77
Bromobenzene
Concen: 44.758 ug/l
RT: 13.66 min Scan# 1244
Delta R.T. -0.01 min
Lab File: VD062516.D
Acq: 23 May 2019 12:20

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
156	100		
77	122.2	53.1	159.4
158	96.9	49.4	148.0

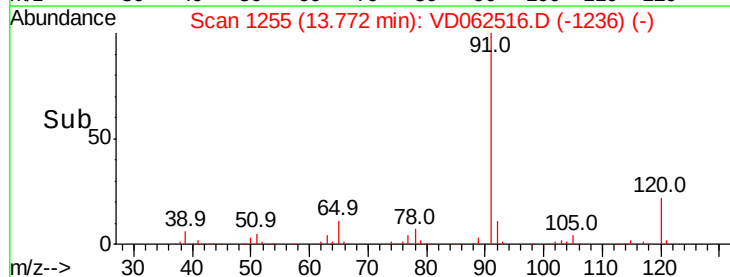
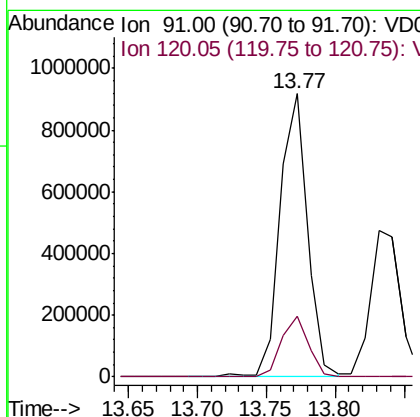
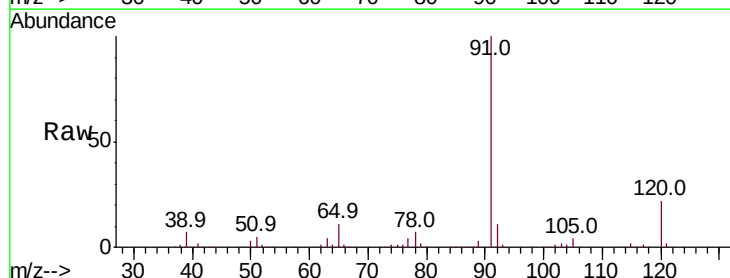
Manual Integrations
APPROVED

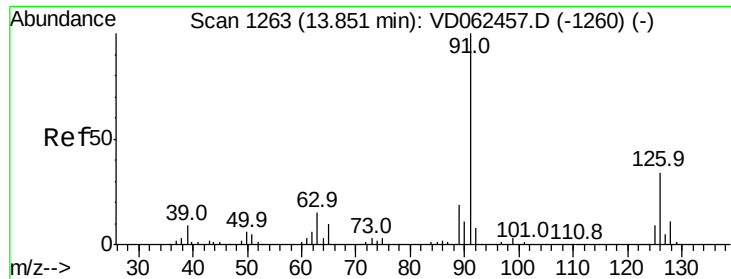
MMDadoda
5/24/2019 10:45:02 PM



#78
n-propylbenzene
Concen: 45.051 ug/l
RT: 13.77 min Scan# 1255
Delta R.T. -0.01 min
Lab File: VD062516.D
Acq: 23 May 2019 12:20

Tgt Ion	Ratio	Lower	Upper
91	100		
120	21.6	11.1	33.1





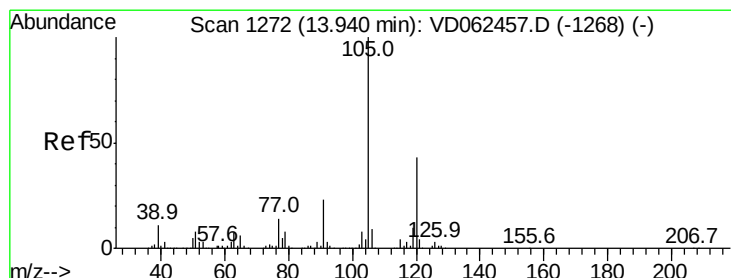
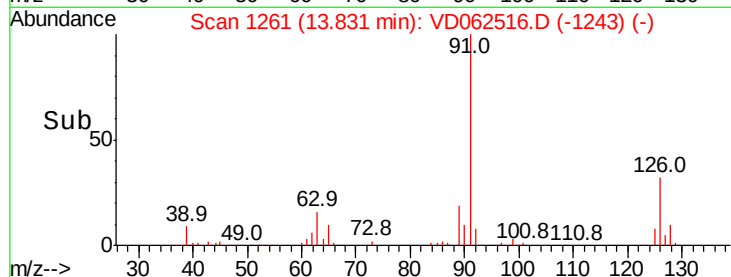
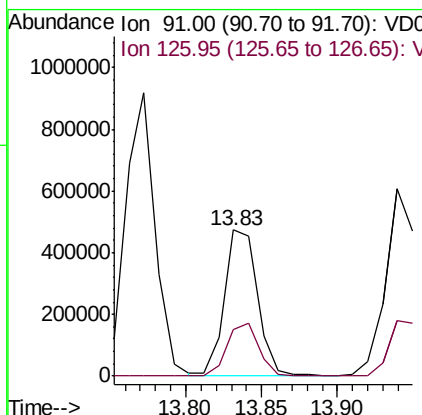
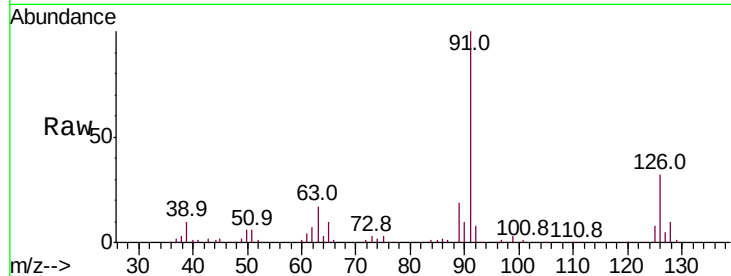
#79
2-Chlorotoluene
Concen: 42.464 ug/l
RT: 13.83 min Scan# 1261
Delta R.T. -0.02 min
Lab File: VD062516.D
Acq: 23 May 2019 12:20

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 91 Resp: 719771
Ion Ratio Lower Upper
91 100
126 32.0 18.6 55.8

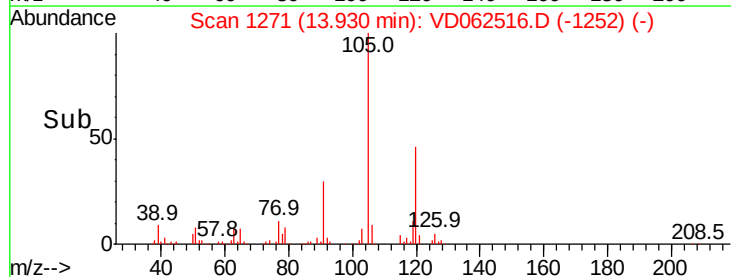
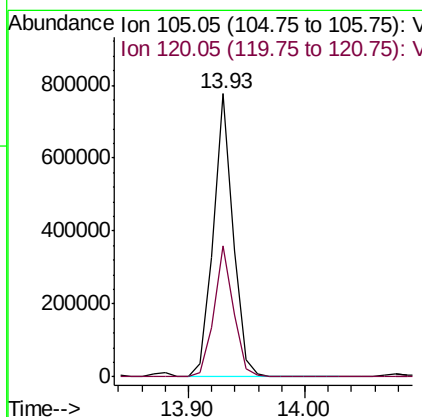
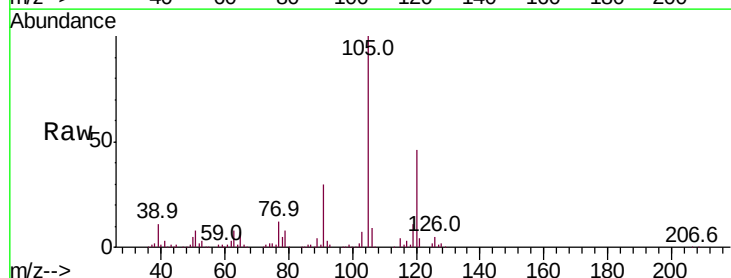
Manual Integrations
APPROVED

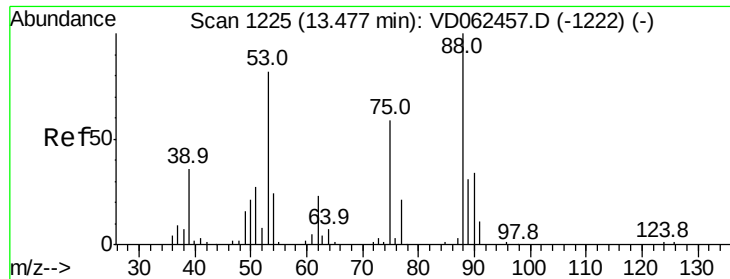
MMDadoda
5/24/2019 10:45:02 PM



#80
1,3,5-Trimethylbenzene
Concen: 43.765 ug/l
RT: 13.93 min Scan# 1271
Delta R.T. -0.01 min
Lab File: VD062516.D
Acq: 23 May 2019 12:20

Tgt Ion: 105 Resp: 913729
Ion Ratio Lower Upper
105 100
120 46.3 24.0 72.0





#81

trans-1,4-Dichloro-2-butene

Concen: 46.657 ug/l

RT: 13.47 min Scan# 1224

Delta R.T. -0.01 min

Lab File: VD062516.D

Acq: 23 May 2019 12:20

Instrument :

MSVOA_D

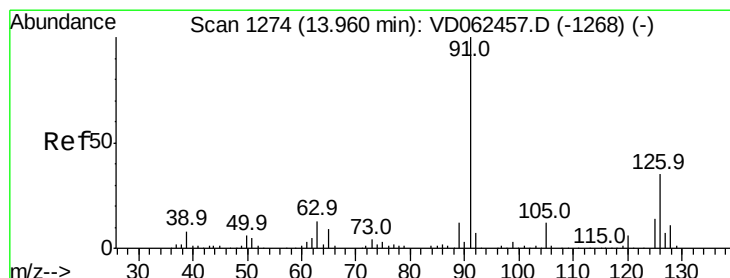
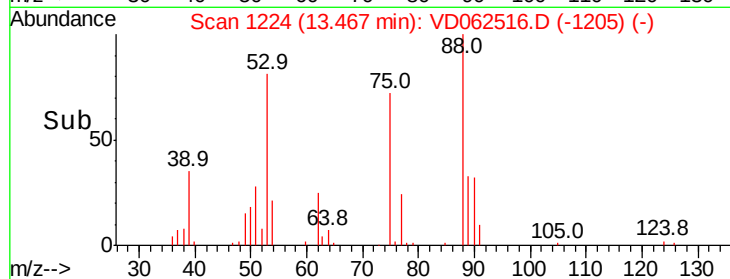
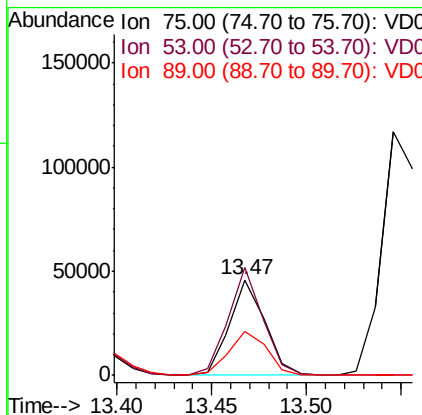
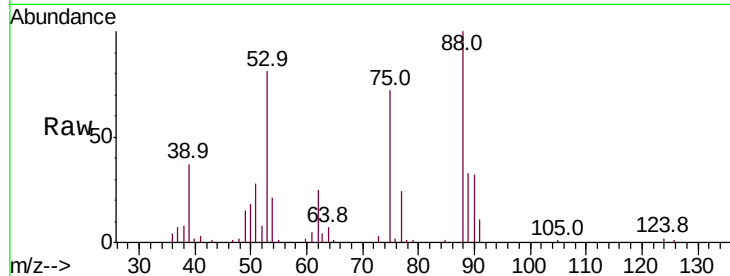
ClientSampleId :

VSTDCCC050

Tot Ion:	75	Resp:	59291
Ion Ratio	Lower	Upper	
75	100		
53	113.1	65.8	98.8#
89	46.2	35.0	52.6

Manual Integrations
APPROVED

MMDadoda
5/24/2019 10:45:02 PM



#82

4-Chlorotoluene

Concen: 44.727 ug/l

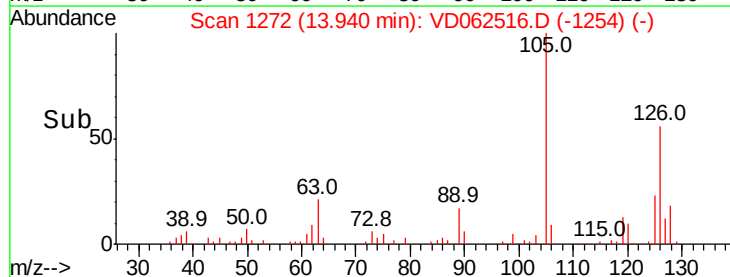
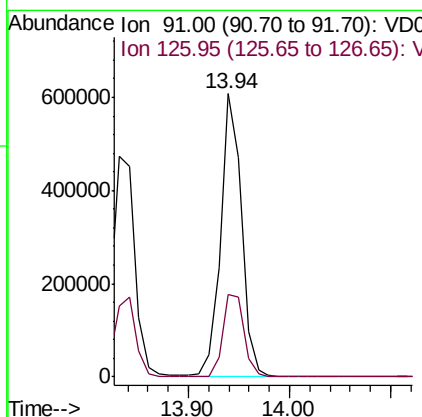
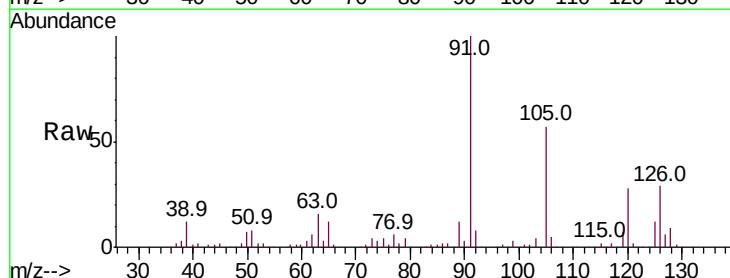
RT: 13.94 min Scan# 1272

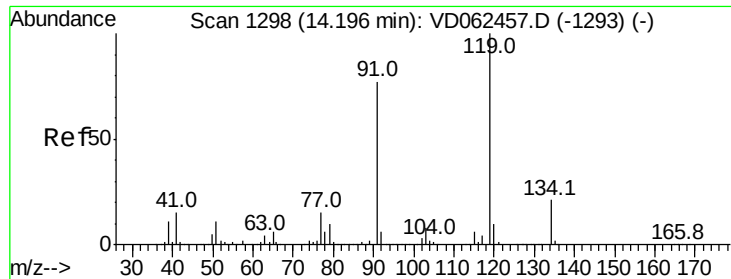
Delta R.T. -0.02 min

Lab File: VD062516.D

Acq: 23 May 2019 12:20

Tgt Ion:	91	Resp:	873108
Ion Ratio	Lower	Upper	
91	100		
126	29.3	19.1	57.5





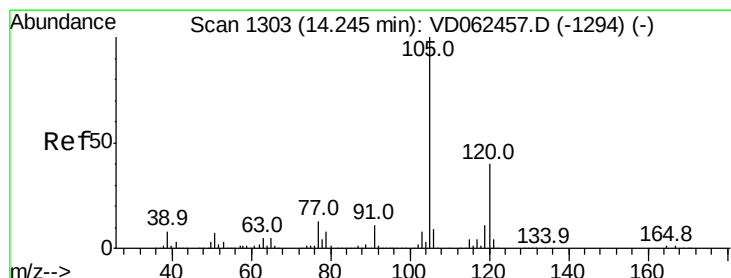
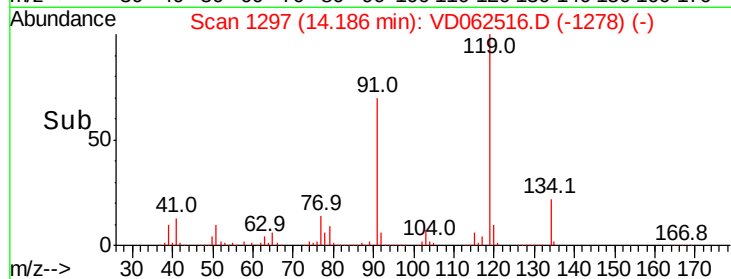
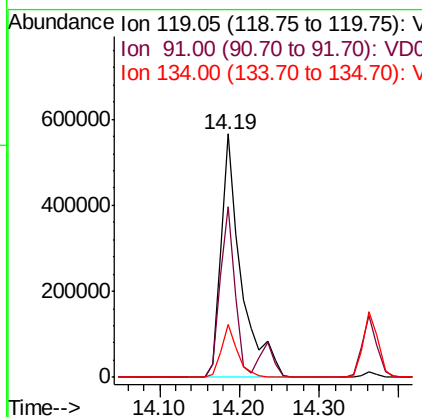
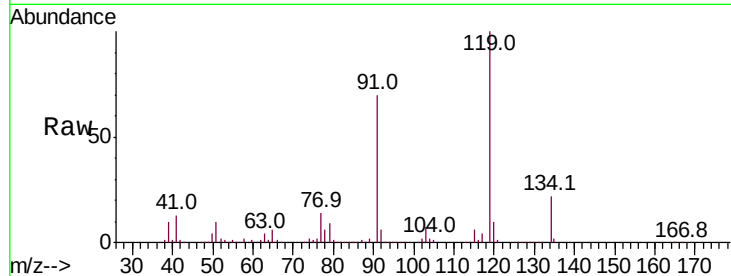
#83
 tert-Butylbenzene
 Concen: 43.381 ug/l
 RT: 14.19 min Scan# 1297
 Delta R.T. -0.01 min
 Lab File: VD062516.D
 Acq: 23 May 2019 12:20

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion:119 Resp: 1004663
 Ion Ratio Lower Upper
 119 100
 91 70.2 34.2 102.6
 134 21.5 12.0 36.0

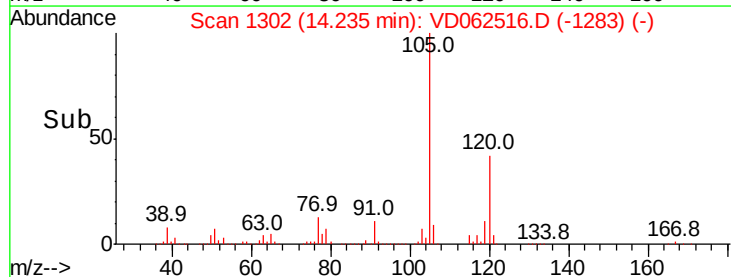
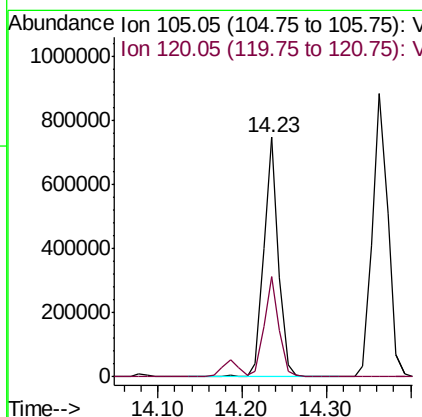
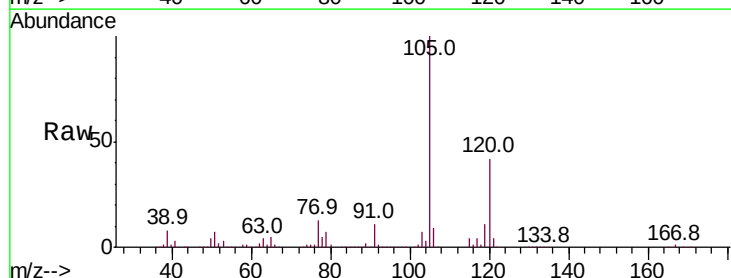
Manual Integrations
 APPROVED

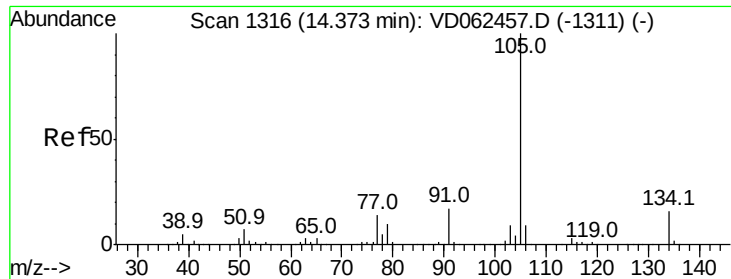
MMDadoda
 5/24/2019 10:45:02 PM



#84
 1,2,4-Trimethylbenzene
 Concen: 43.232 ug/l
 RT: 14.23 min Scan# 1302
 Delta R.T. -0.01 min
 Lab File: VD062516.D
 Acq: 23 May 2019 12:20

Tgt Ion:105 Resp: 924876
 Ion Ratio Lower Upper
 105 100
 120 42.0 23.1 69.2





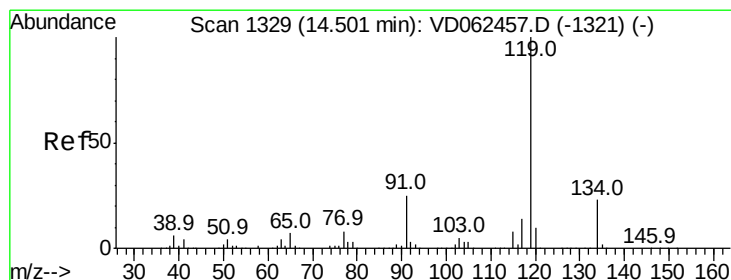
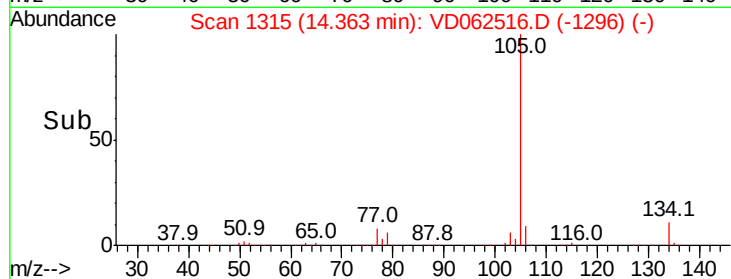
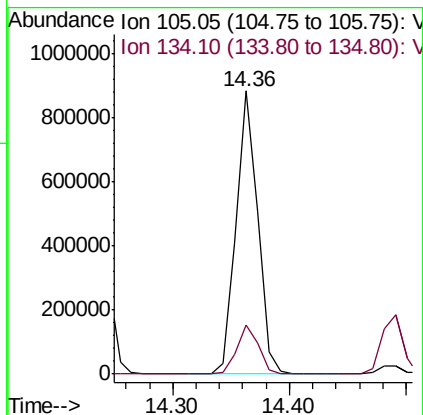
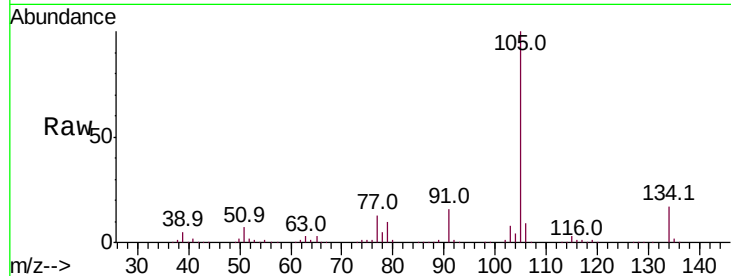
#85
 sec-Butylbenzene
 Concen: 46.849 ug/l
 RT: 14.36 min Scan# 1315
 Delta R.T. -0.01 min
 Lab File: VD062516.D
 Acq: 23 May 2019 12:20

Instrument :
 MSVOA_D
 ClientSampleID :
 VSTDCCC050

Tot Ion:105 Resp: 1131302
 Ion Ratio Lower Upper
 105 100
 134 17.2 8.9 26.7

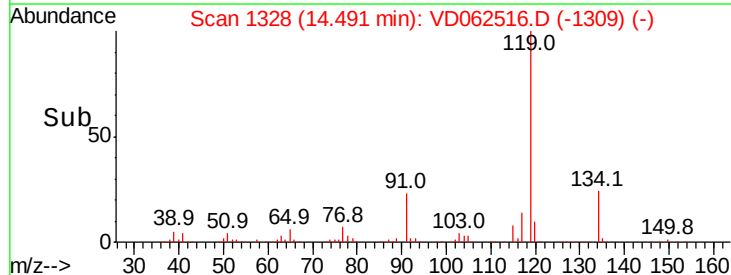
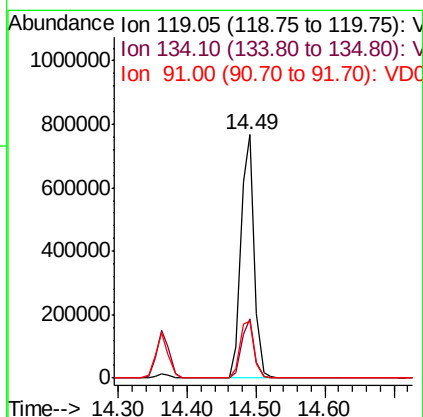
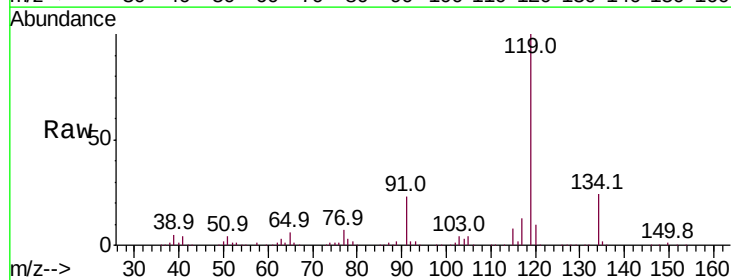
Manual Integrations
 APPROVED

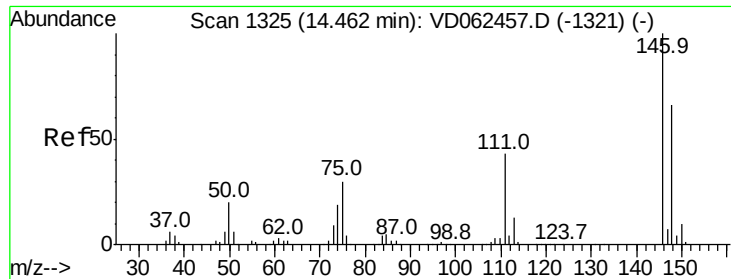
MMDadoda
 5/24/2019 10:45:02 PM



#86
 p-Isopropyltoluene
 Concen: 46.486 ug/l
 RT: 14.49 min Scan# 1328
 Delta R.T. -0.01 min
 Lab File: VD062516.D
 Acq: 23 May 2019 12:20

Tgt Ion:119 Resp: 1017287
 Ion Ratio Lower Upper
 119 100
 134 24.2 12.8 38.3
 91 23.2 10.7 32.1





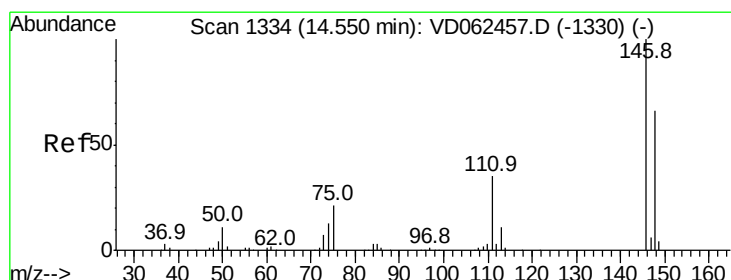
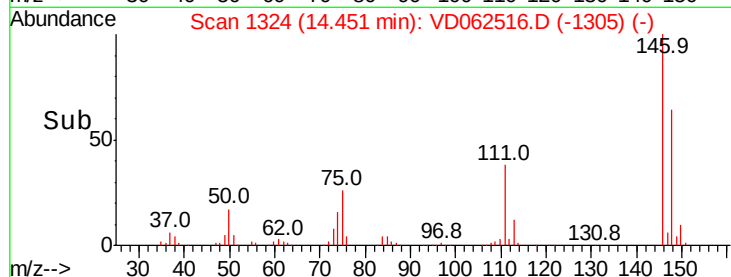
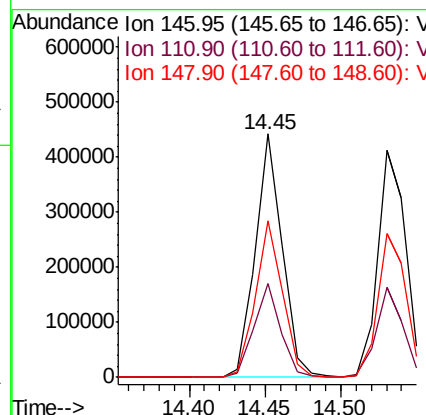
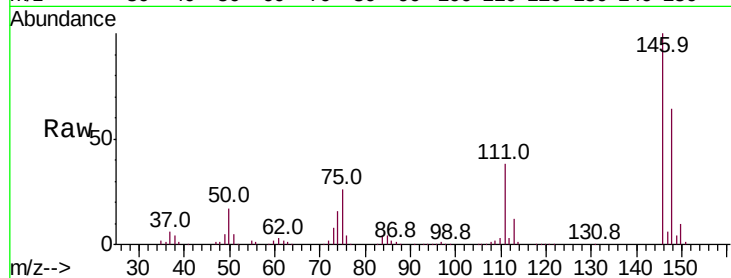
#87
 1,3-Dichlorobenzene
 Concen: 45.516 ug/l
 RT: 14.45 min Scan# 1324
 Delta R.T. -0.01 min
 Lab File: VD062516.D
 Acq: 23 May 2019 12:20

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.3	20.0	60.0
148	64.3	31.8	95.4

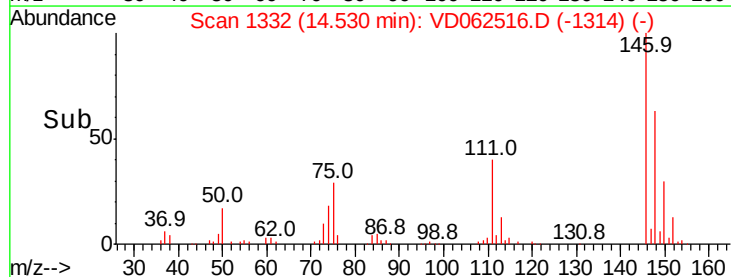
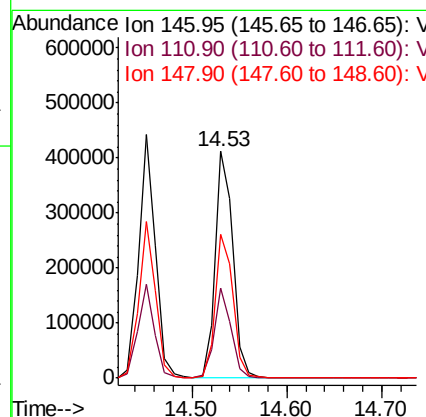
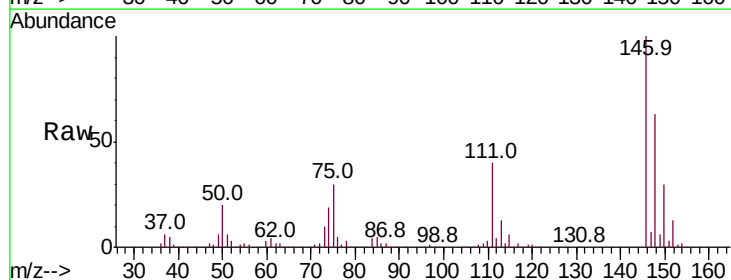
Manual Integrations
 APPROVED

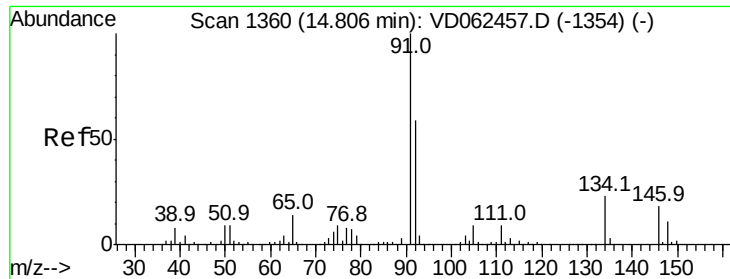
MMDadoda
 5/24/2019 10:45:02 PM



#88
 1,4-Dichlorobenzene
 Concen: 46.411 ug/l
 RT: 14.53 min Scan# 1332
 Delta R.T. -0.02 min
 Lab File: VD062516.D
 Acq: 23 May 2019 12:20

Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.0	20.2	60.5
148	63.5	32.0	96.2





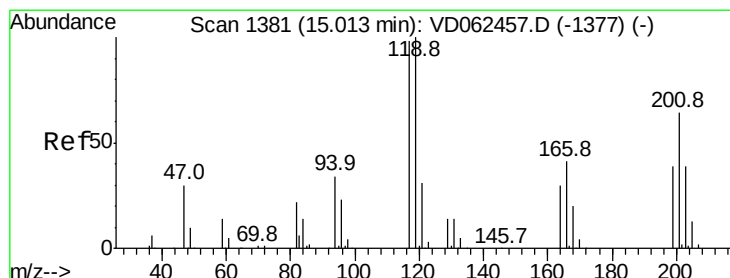
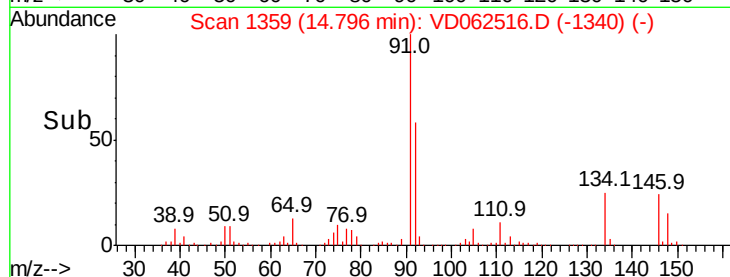
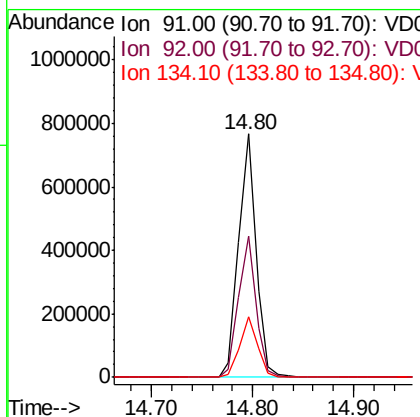
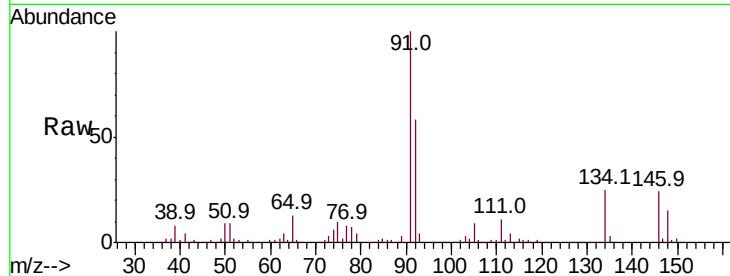
#89
n-Butylbenzene
Concen: 43.657 ug/l
RT: 14.80 min Scan# 1359
Delta R.T. -0.01 min
Lab File: VD062516.D
Acq: 23 May 2019 12:20

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
91	100		
92	58.2	30.3	91.0
134	24.8	14.5	43.6

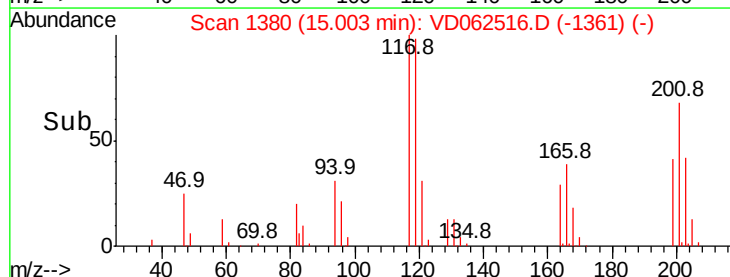
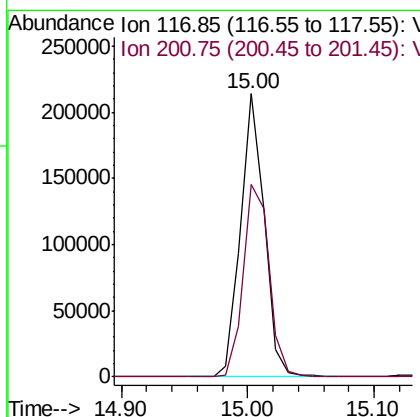
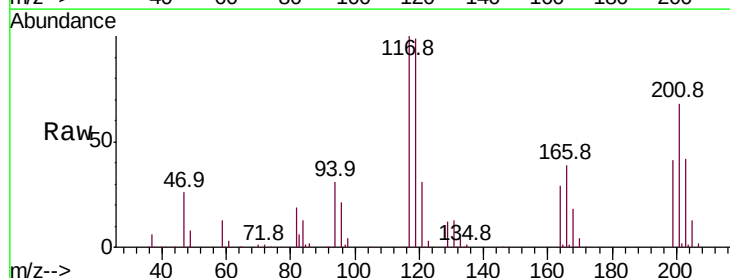
Manual Integrations
APPROVED

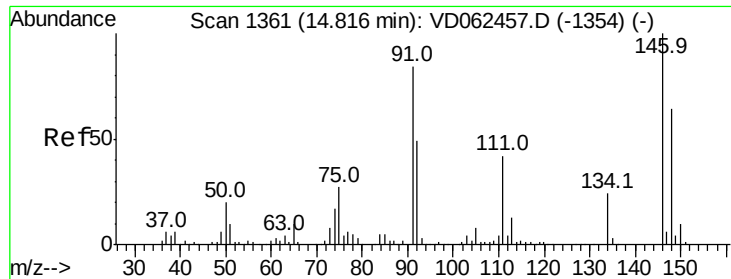
MMDadoda
5/24/2019 10:45:02 PM



#90
Hexachloroethane
Concen: 45.918 ug/l
RT: 15.00 min Scan# 1380
Delta R.T. -0.01 min
Lab File: VD062516.D
Acq: 23 May 2019 12:20

Tgt Ion	Ratio	Lower	Upper
117	100		
201	68.0	30.2	90.6





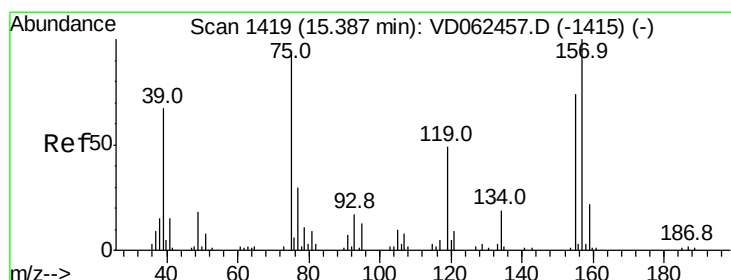
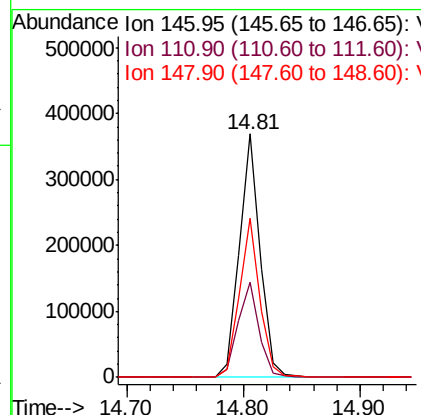
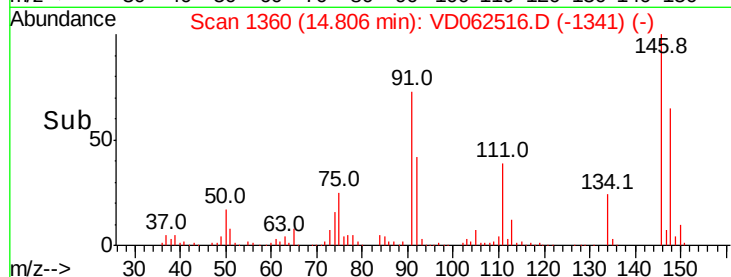
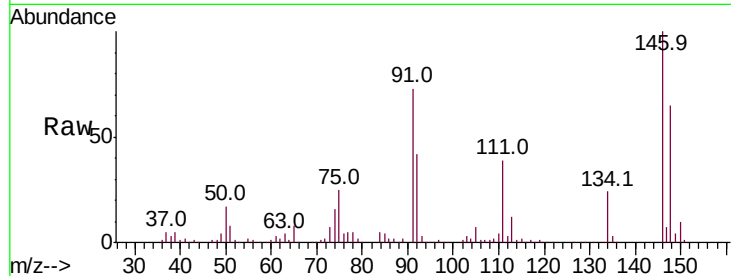
#91
 1,2-Dichlorobenzene
 Concen: 44.341 ug/l
 RT: 14.81 min Scan# 1360
 Delta R.T. -0.01 min
 Lab File: VD062516.D
 Acq: 23 May 2019 12:20

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.9	20.0	59.9
148	65.4	32.3	96.8

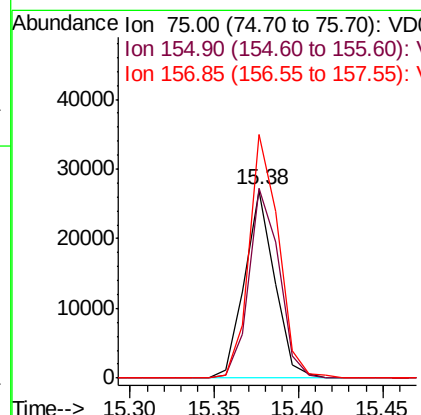
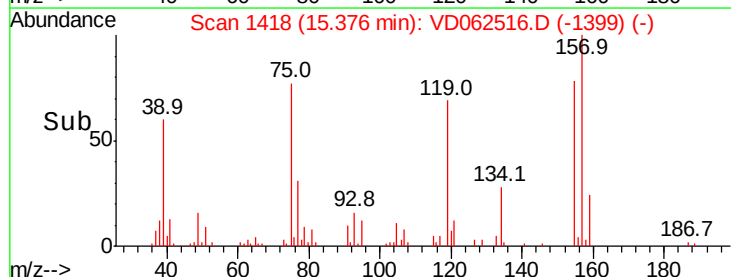
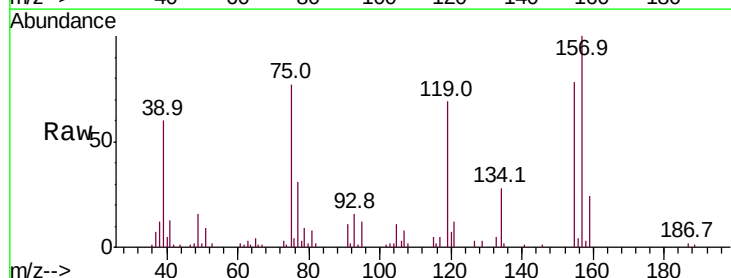
Manual Integrations
 APPROVED

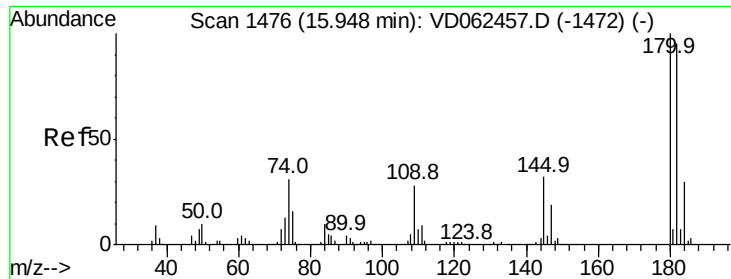
MMDadoda
 5/24/2019 10:45:02 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 40.344 ug/l
 RT: 15.38 min Scan# 1418
 Delta R.T. -0.01 min
 Lab File: VD062516.D
 Acq: 23 May 2019 12:20

Tgt Ion	Ratio	Lower	Upper
75	100		
155	101.4	55.3	165.8
157	129.9	67.8	203.2





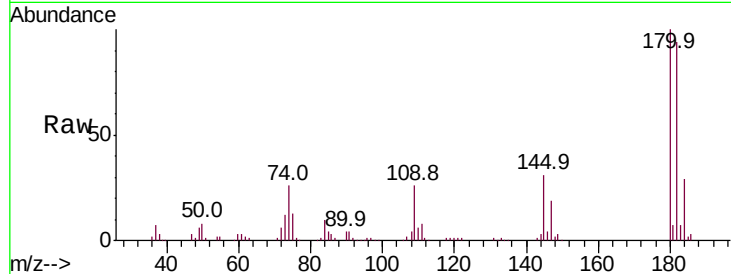
#93
 1,2,4-Trichlorobenzene
 Concen: 42.098 ug/l
 RT: 15.94 min Scan# 1475
 Delta R.T. -0.01 min
 Lab File: VD062516.D
 Acq: 23 May 2019 12:20

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

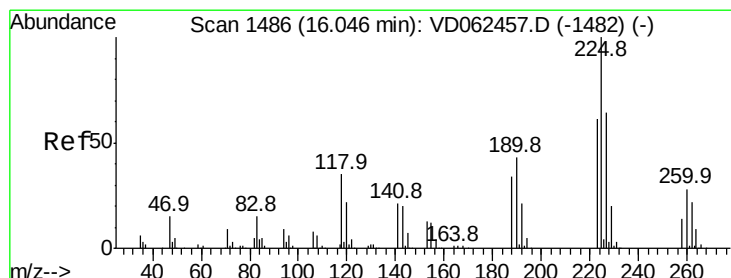
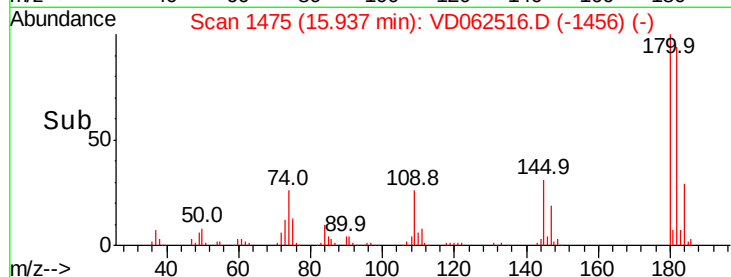
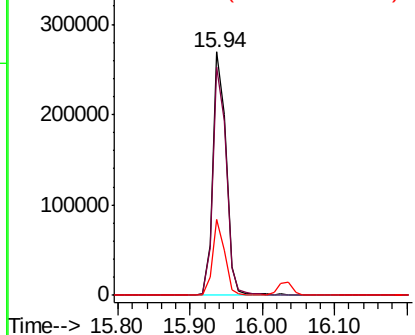
Tot Ion	Ratio	Resp	Lower	Upper
180	100	340483		
182	93.6	49.3	147.8	
145	31.4	16.2	48.6	

Manual Integrations
 APPROVED

MMDadoda
 5/24/2019 10:45:02 PM

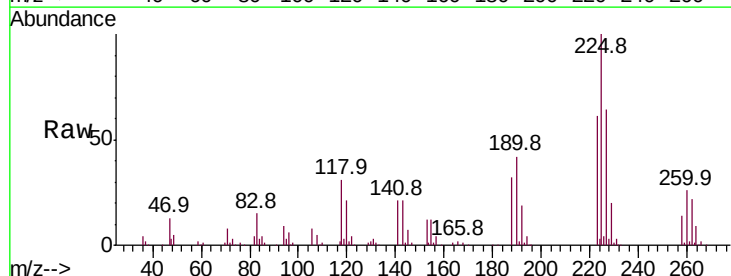


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V

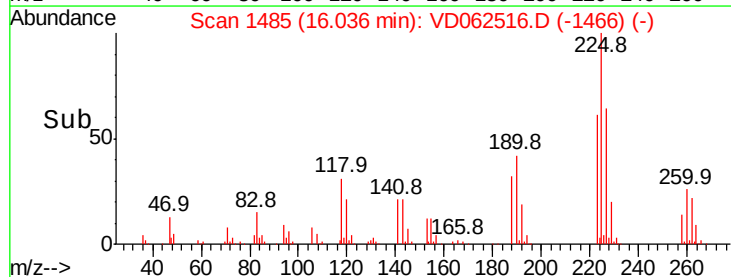
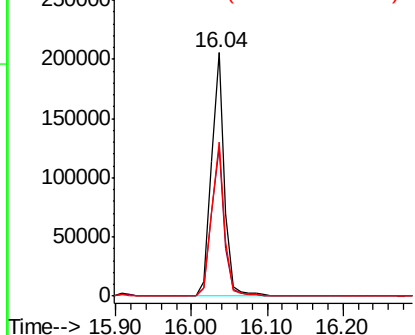


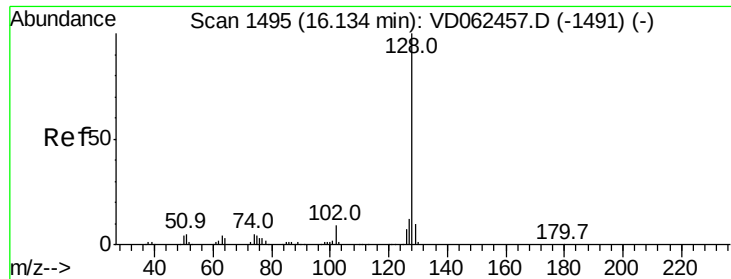
#94
 Hexachlorobutadiene
 Concen: 41.669 ug/l
 RT: 16.04 min Scan# 1485
 Delta R.T. -0.01 min
 Lab File: VD062516.D
 Acq: 23 May 2019 12:20

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	248838		
223	61.2	30.6	92.0	
227	63.5	32.0	96.2	



Abundance Ion 224.75 (224.45 to 225.45): V
 Ion 222.75 (222.45 to 223.45): V
 Ion 226.75 (226.45 to 227.45): V





#95

Naphthalene

Concen: 45.441 ug/l

RT: 16.12 min Scan# 1494

Delta R.T. -0.01 min

Lab File: VD062516.D

Acq: 23 May 2019 12:20

Instrument :

MSVOA_D

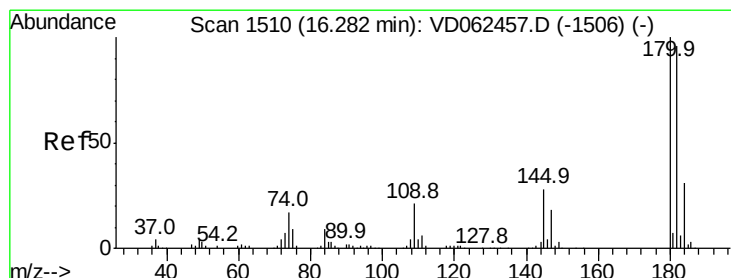
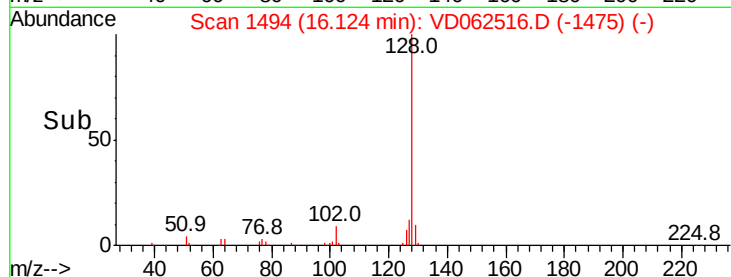
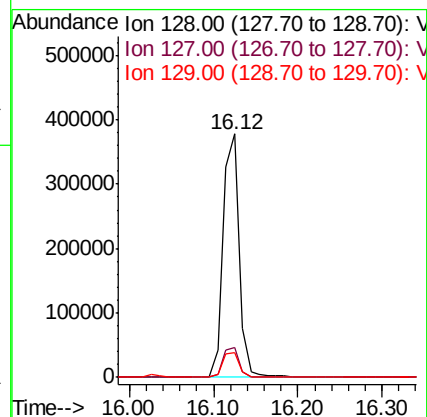
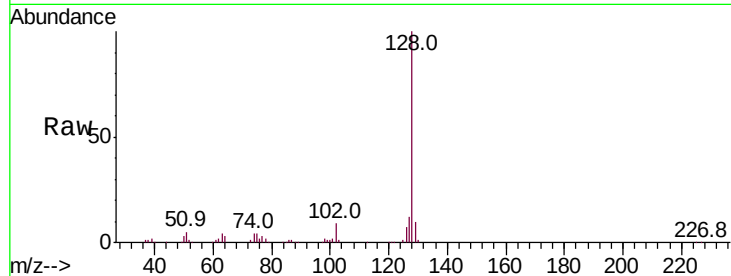
ClientSampleId :

VSTDCCC050

Tot Ion:	128	Resp:	502179
Ion Ratio	Lower	Upper	
128	100		
127	12.4	9.8	14.8
129	10.3	8.8	13.2

Manual Integrations
APPROVED

MMDadoda
5/24/2019 10:45:02 PM



#96

1,2,3-Trichlorobenzene

Concen: 39.539 ug/l

RT: 16.27 min Scan# 1509

Delta R.T. -0.01 min

Lab File: VD062516.D

Acq: 23 May 2019 12:20

Tgt Ion:	180	Resp:	262155
Ion Ratio	Lower	Upper	
180	100		
182	95.1	47.0	141.0
145	27.8	17.0	51.0

